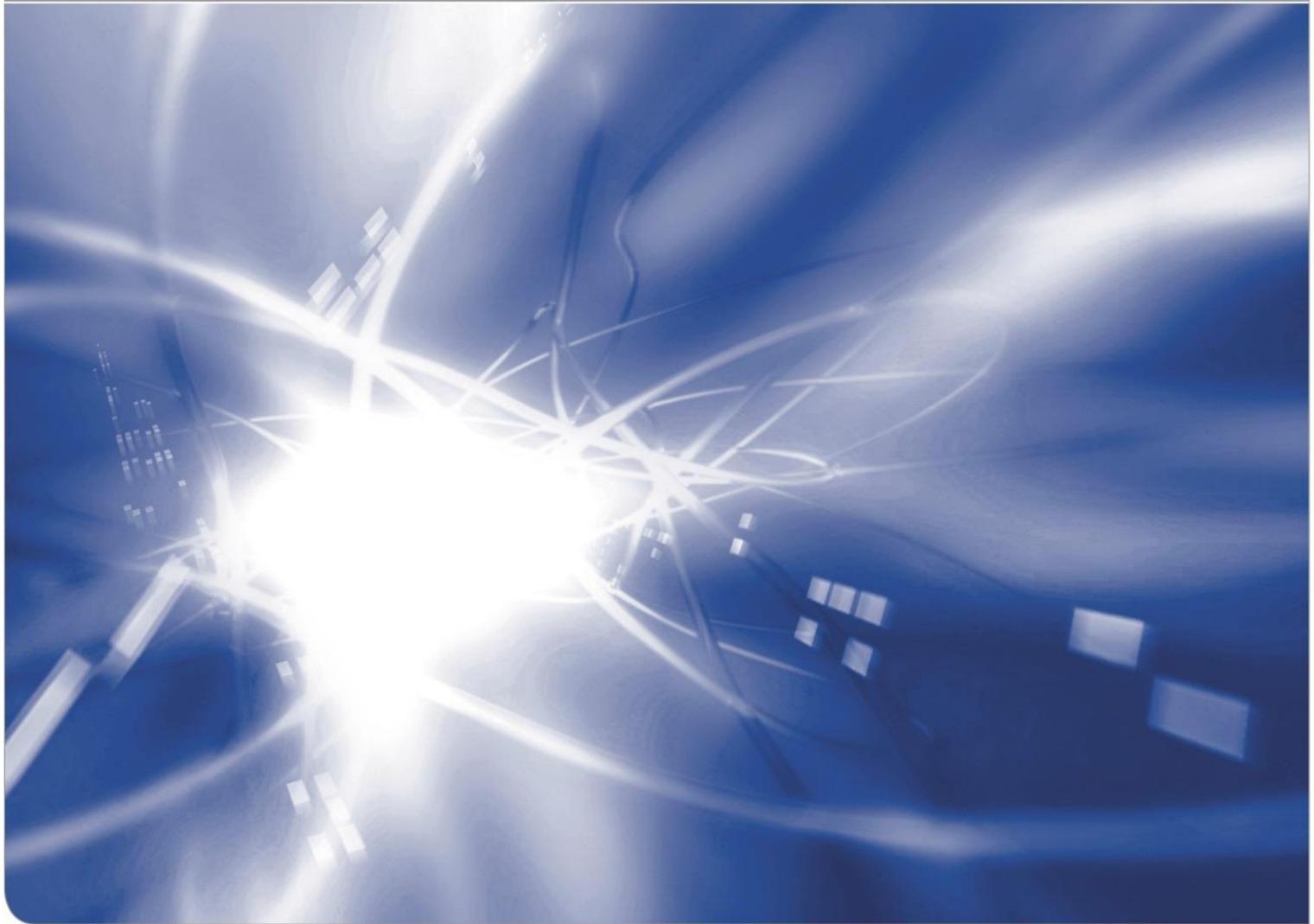


Proton activation data file PADF-2. Targets with atomic numbers from 6 to 15

A.Yu. Konobeyev, D. Leichtle

KIT SCIENTIFIC WORKING PAPERS 204



INR, Karlsruhe Institute of Technology, 76344 Eggenstein-Leopoldshafen,
Germany

Impressum

Karlsruher Institut für Technologie (KIT)
www.kit.edu



This document is licensed under the Creative Commons Attribution – Share Alike 4.0 International License (CC BY-SA 4.0): <https://creativecommons.org/licenses/by-sa/4.0/deed.en>

2022

ISSN: 2194-1629

Abstract

A new version of the Proton Activation Data File, PADF-2, has been prepared for targets from carbon to phosphorus. The file contains cross-sections of all proton-induced reactions occurring at primary energies up to 200 MeV.

The new data were obtained using all available experimental data and results of calculations using modern nuclear models and up-to-date versions of computer codes.

A preliminary version of the file can be downloaded at: <https://t1p.de/3vzun>

CONTENTS

	page
1. Introduction	1
2. Computer codes and tools used for data preparation	2
3. Experimental data	3
4. Data from other libraries	5
5. Evaluation procedure.....	5
6. Results	9
7. Conclusion	9
Acknowledgement	10
References	11
Appendix	
Evaluated cross-sections	A1
Data file for ^{27}Al	B1

1. Introduction

In 2007, the first version of the Proton Activation Data File, PADF-2007 [1-3], was prepared. The file included cross-sections for proton-induced reactions for targets from Mg to Ra at primary energies up to 150 MeV. The purpose of the library was to satisfy the need for activation data for various applications, including industrial and medical. The advantage of PADF-2007 was the use of all experimental cross-section data available at the time for considered targets and energies. The calculated curves fitted to experimental data were obtained using the codes TALYS-0.64 [4,5] and ALICE/ASH (2005) [6].

Fifteen years have passed since the first version of the file [1-3] appeared. Since then, the quality of the theoretical description of cross-sections and evaluation methods have improved, new measurements have been performed. In addition, the need for data for light target nuclei has increased.

This paper presents the first results for the evaluation of cross-sections included in the new version of the PADF-2 proton activation data file. The data obtained cover the range of targets nuclei from carbon to phosphorus. Distinctive features of the new library of cross-sections are

- expansion of the proton primary energies up to 200 MeV
- calculations with TALYS-1.96 [7,8] using different models for the nuclear level densities
- use of TALYS-G [9-11] with the implemented geometry dependent hybrid model (GDH) [12,13] and models [14-17] for simulation of the pre-equilibrium emission of light clusters
- calculations using CEM03.03 [18,19], PHITS3.27 [20,21], and ALICE/ASH (2020) [6,22,23] codes with simulations of emission of heavy clusters with atomic number $Z > 2$
- using all available experimental data, including i) measurements for individual reactions, ii) cumulative cross-sections for specific isotopes, iii) independent cross-sections for natural mixtures of isotopes, iv) cumulative cross-sections for natural mixtures, and v) the use, where possible, of measured relative values

Codes from the BEKED package [24] were used to process the results, correct the calculated cross-sections, and evaluate the data.

Section 2 describes the use of nuclear model codes, Section 3 the use of experimental data, and Section 4 the role of the data from other libraries. The procedure of cross-section evaluation is discussed in Section 5. The results are presented in Section 6 and the Appendix.

2. Computer codes and tools used for data preparation

The PADF-2007 files [1-3] were prepared using the TALYS-0.64 code for stable nuclei and nuclei with $T_{1/2} > 10$ min. The ALICE/ASH (2005) code for short-lived targets. In the present paper, “the best” advanced modern nuclear models and current versions of ALICE [6,22,23], TALYS [7,8], CEM [18,19], and PHITS [20,21] are used to improve the quality of the theoretical prediction of cross-sections. A few comments on the use of the codes are given below.

ALICE/ASH (2020). A distinctive feature of the code is the use of the GDH model [12,13], simulation of non-equilibrium emission of composite particles, d, t, ${}^3\text{He}$, α -particles, and heavy clusters. To simulate the emission of fragments heavier than helium, $Z > 2$, the exciton [22] and evaporation models are used. The fragments considered are presented in Table 1.

CEM03.03 [18,19]. The nuclear reactions are simulated using the Cascade Exciton Model [25], which combines the intranuclear cascade and pre-equilibrium exciton models and GEM evaporation model [26-28]. Along with non-equilibrium nucleon emission, the program simulates the escape of d, t, ${}^3\text{He}$, and α -particles. The Fermi breakup model [29] is applied for excited nuclei with $A \leq 12$ appearing in particle emission cascade. Heavy cluster, $A > 4$, emission is modelled using the evaporation model.

PHITS 3.27. An up-to-date version of the code [20,21] was used in the calculations. The non-equilibrium emission of nucleons and composite particles was simulated using the INCL4.6 model [30-32] and the GEM evaporation model [26-28]. Example of calculations performed using different codes for reactions with heavy fragment formation is shown in Fig. 1.

TALYS-G [9-11] is a TALYS-1.95 code [33,8] with an implemented GDH model [12,13] and models for pre-equilibrium deuteron and α -particle emission [17,34,35]. In the present work, the calculations were performed using a level density model corresponding to the input parameter *ldmodel* equal to one [33].

TALYS-1.96 [7,8]. The advantages and merits of the code are well known [36]. They concern the use of Hauser-Feshbach model, well-adjusted pre-equilibrium model, direct models, well-justified models for nuclear level density, and other approaches. To get cross-sections for PADF-2 three variants of calculations were performed with the input parameter *Idmodel* equal to 1, 2, and 3 for each target nucleus.

Table 1. Particles and fragments which non-equilibrium and equilibrium emission is modelled in the ALICE/ASH (2020) code.

Z	Element	A
0	n	1
1	H	1, 2, 3
2	He	3, 4, 6, 8
3	Li	6, 7, 8, 9, 11, 12
4	Be	7, 9, 10, 11, 12, 13, 14, 15, 16
5	B	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
6	C	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
7	N	12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23
8	O	13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24
9	F	17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 29, 31
10	Ne	17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 34
11	Na	20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37
12	Mg	20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 40

3. Experimental data

All available experimental data [37] were used for the evaluation. Data included cross-sections for individual reactions, cumulative cross-sections, independent data for natural isotope mixtures, and cumulative data for natural mixtures.

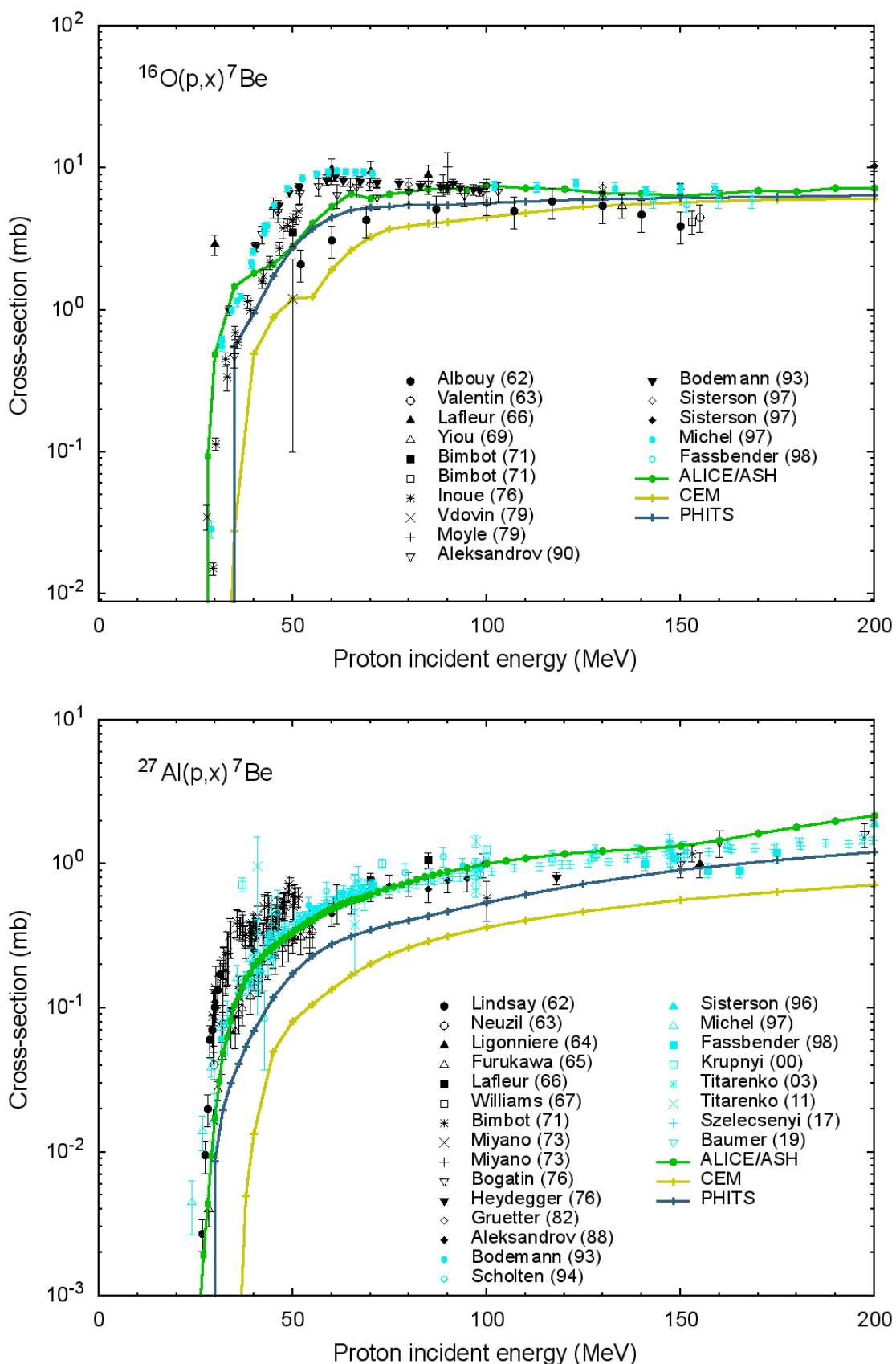


Fig.1 Example of cross-sections calculated for reactions with formation of ^7Be .

In addition, partial data [38], in the EXFOR designations "PAR,SIG" and "PAR,SIG,G", were used in those energy ranges in which such cross-sections coincide with the total cross-sections of specific reactions.

The astrophysical S-factors values were converted into cross-sections.

If measured relative values, "SIG,,REL" [38], were available, such data were used to obtain absolute cross-section values when possible. Other experimental data or even the results of calculations were used to obtain absolute values. Undoubtedly, the use of such "reconstructed" data is possible only with certain reservations.

For activation measurements for reactions for which there is no indication in EXFOR of an "independent", IND, or "cumulative", CUM, cross-sections the possible contribution of other radioactive isotopes produced by irradiation to the cross-section of a given reaction was checked.

It seems inexpedient to cite all of the experimental works used here. Such references are given in the file descriptions for each isotope recorded using ENDF/B format [39], in the section MF/MT=1/ 451.

4. Data from other libraries

The data from libraries ENDF/B-VIII [40,41], JENDL-HE [42,43], JENDL-5 [44,45], and TENDL-2021 [36,46] were analysed in this paper. As expected, in many cases, the data differ markedly from each other. An example is shown in Fig.2. The data from the libraries are also different for such well-evaluated cross-sections as for the $^{27}\text{Al}(\text{p},\text{x})^{22}\text{Na}$ and $^{27}\text{Al}(\text{p},\text{x})^{24}\text{Na}$ reactions [47,48]. In general, this makes it difficult to use or borrow data from the available data files.

5. Evaluation procedure

The procedure for evaluation of cross-section for each individual reaction consisted of i) cross-section calculations, ii) obtaining an "estimated" calculated cross-section, iii) application of experimental data, and iv) corrections using available data for the measured cumulative cross-section, data for the natural mixture of isotopes, and cumulative cross-sections for the natural mixture, if available.

The results of calculations using different models and codes were averaged with weights reflecting the advantages or applicability of one or another model in different energy intervals. Figure 3 shows an example of the calculated and averaged cross-sections.

The resulting curves were fitted to the experimental data, taking into account possible correlations, using the FIT7C code [49] from the BEKED package. Figure 4 illustrates an example of the evaluated cross-sections. The jumps in the cross-sections resulting from the use of the MC method in CEM and PHITS codes or the data integration in other codes were smoothed.

After evaluation of independent cross-sections, the correction was performed using cumulative cross-section data. If experimental data were available for a natural mixture of isotopes, independent and/or cumulative, such data were used to make a final evaluation of cross-sections for individual reactions.

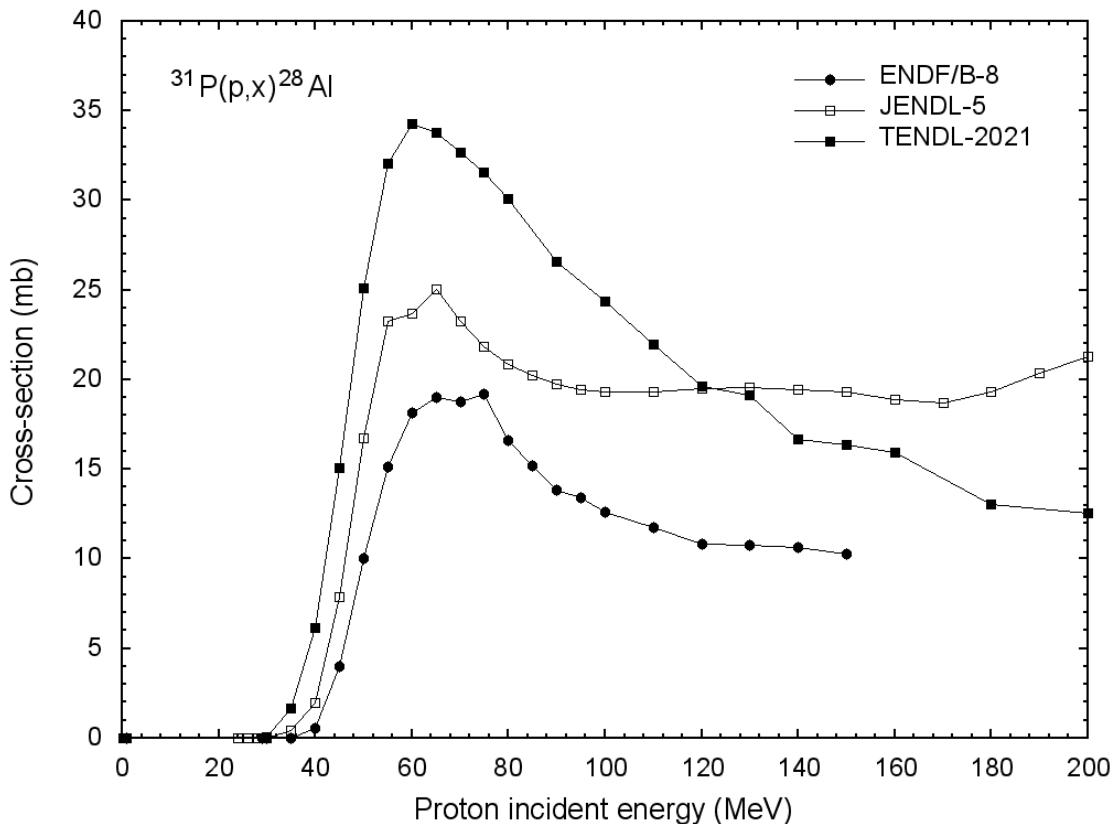


Fig.2 Example of cross-sections taken from different nuclear data libraries.

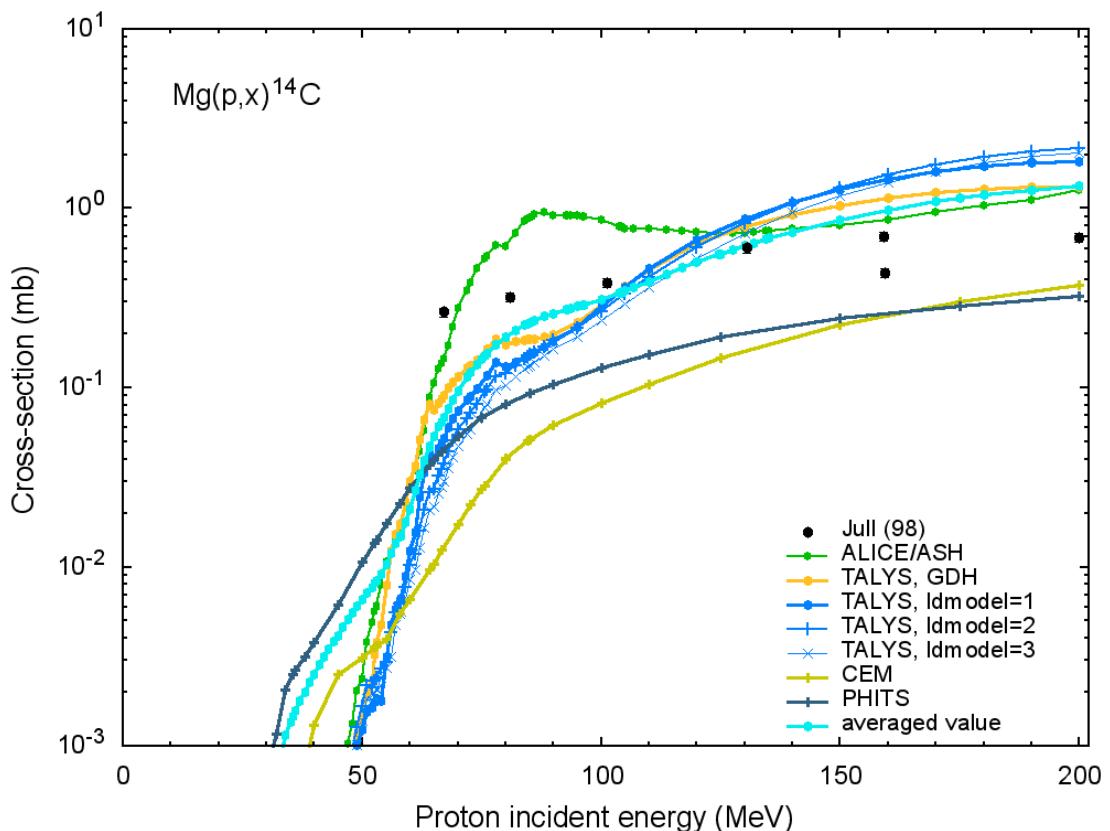
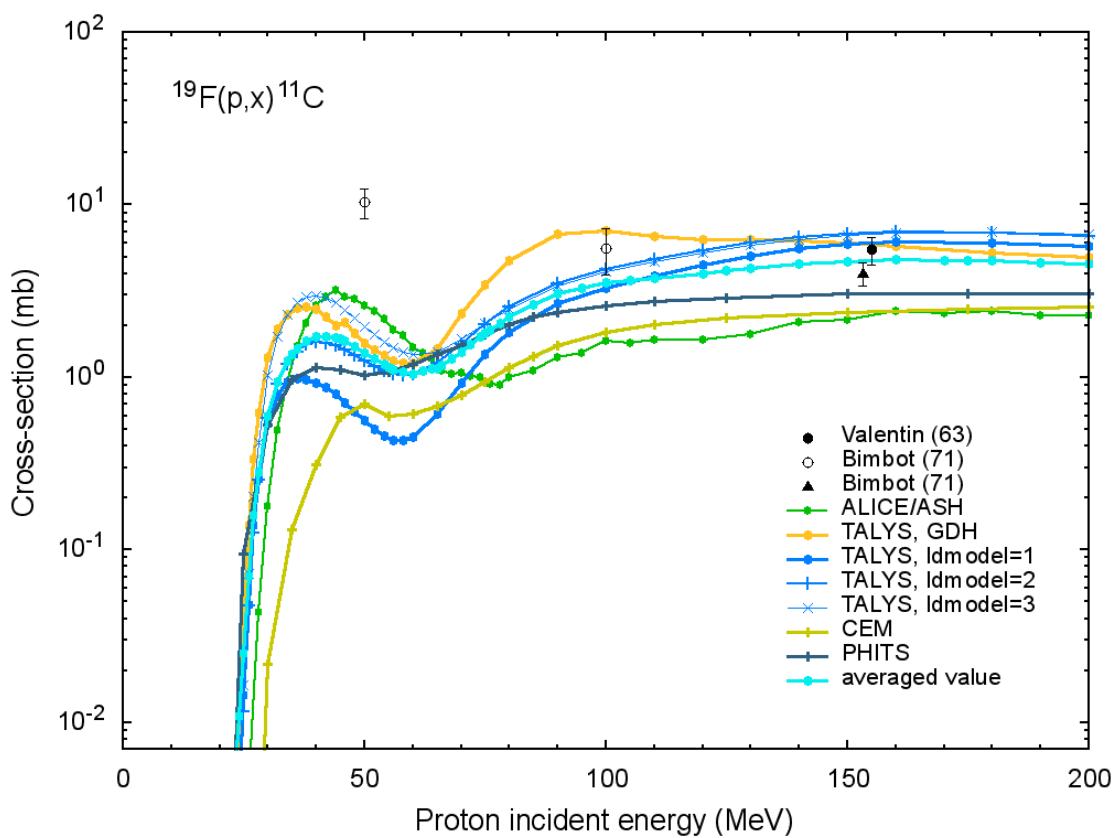


Fig.3 Example of cross-sections calculated by averaging the results obtained using different codes.

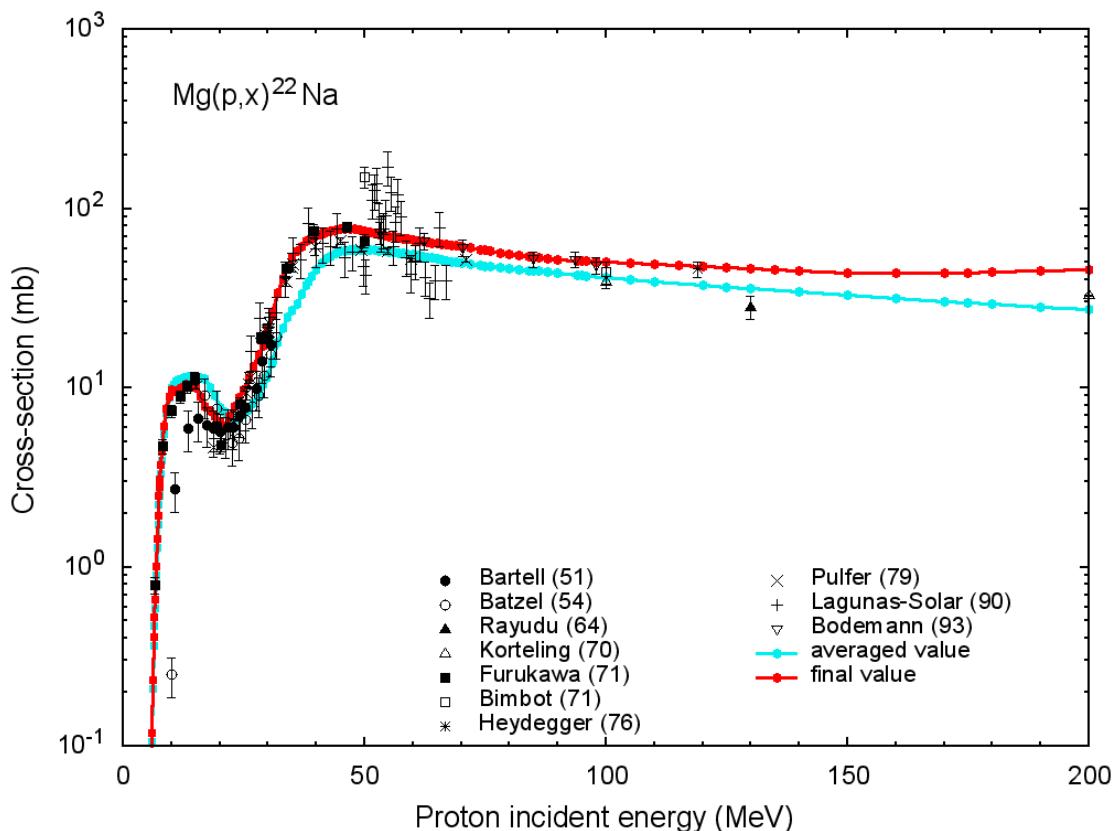
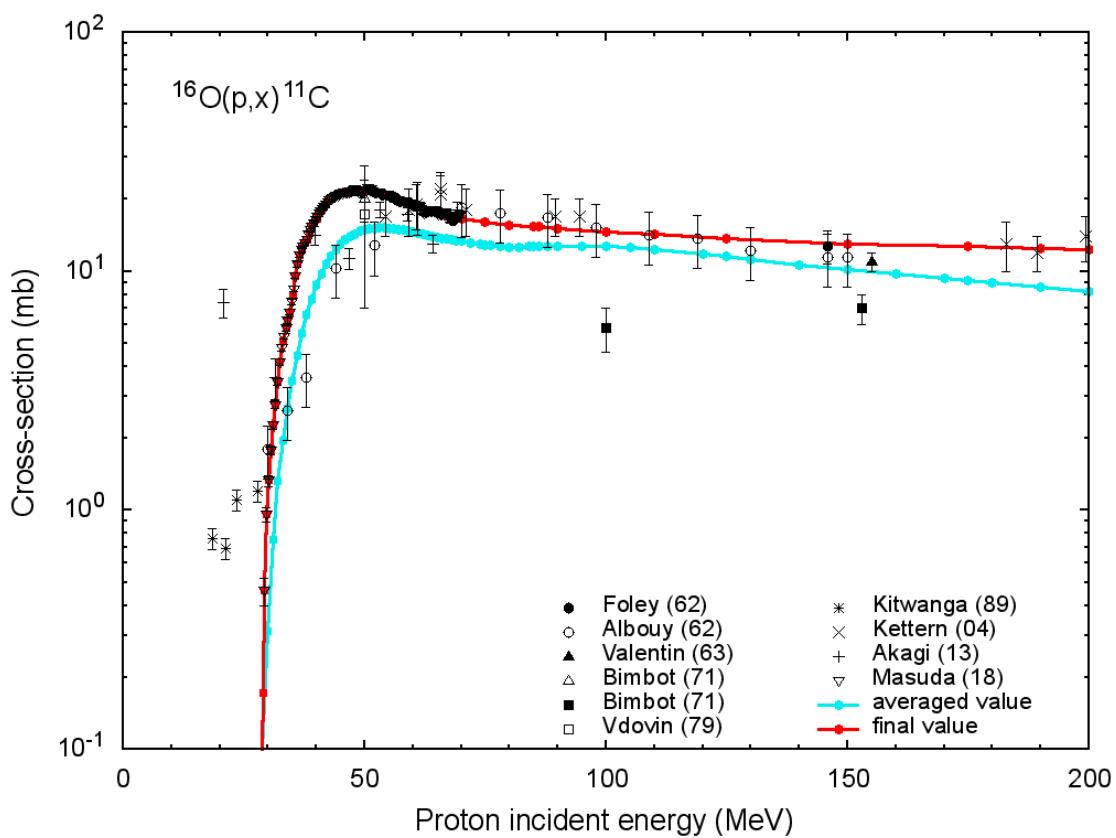


Fig.4 Example of evaluated cross-sections

6. Results

The cross-sections for proton-induced reactions were evaluated for the following target nuclei, ^{12}C , ^{13}C , ^{14}N , ^{15}N , ^{16}O , ^{17}O , ^{18}O , ^{19}F , ^{20}Ne , ^{21}Ne , ^{22}Ne , ^{23}Na , ^{24}Mg , ^{25}Mg , ^{26}Mg , ^{27}Al , ^{28}Si , ^{29}Si , ^{30}Si , and ^{31}P .

The prepared files contain cross-sections for all reactions occurring at primary particle energies up to 200 MeV and leading to the formation of stable and unstable nuclei.

In addition, the cross-sections for special needs, the total neutron production cross-section, the cross-sections for production of protons, deuterons, tritons, ^3He , and α -particles were evaluated. The data on the formation of light charged products can be used to study of primary radiation effects for considered materials.

The evaluated data files also contain cross-sections for reactions occurring with the escape of π^+ and π^- , which are not usually found in other libraries. Therefore, one should not be surprised at such data available in PADF-2 as, for example, for $^{27}\text{Al}(p,x)^{28}\text{Al}$ and $^{27}\text{Al}(p,x)^{28}\text{P}$ reactions.

The resulting data were recorded in ENDF-6 format. Each file includes:

- description, MF=1, MT=451,
- radioactive nuclide production file (formally) MF= 8, MT=5,
- production cross-sections for radionuclides, MF=10, MT=5.

The current version of the PADF files can be downloaded from Ref.[50].

The cross-sections of the proton induced reactions contained in the files are plotted in the Appendix. An example file for ^{27}Al is also given there.

7. Conclusion

The cross-sections of nuclear reactions for proton interactions with target nuclei from C to P at primary energies up to 200 MeV have been evaluated.

The evaluation procedure is based on the use of results of calculations performed using nuclear models and all available experimental data, including independent and cumulative cross-sections and cross-sections for natural mixtures of isotopes.

The resulting files, merged into PADF-2, can be downloaded from <https://t1p.de/3vzun> [50].

Acknowledgement

This work has been carried out within the framework of the EUROfusion Consortium and has received funding from the Euratom research and training programme 2014-2018 and 2019-2020 under grant agreement No 633053. The views and opinions expressed herein do not necessarily reflect those of the European Commission.

References

- [1] A.Yu. Konobeyev, C.H.M. Broeders, U. Fischer, L. Mercatali, I. Schmuck, S.P. Simakov, The Proton Activation Data File PADF-2007 in ENDF-6 format, <https://www-nds.iaea.org/padf/>
- [2] C.H.M. Broeders, U. Fischer, A.Yu. Konobeyev, L. Mercatali, S.P. Simakov, Proton Activation Data File to Study Activation and Transmutation of Materials Irradiated with Protons at Energies up to 150 MeV, *J. Nucl. Sci. Technol.* 44 (2007) 933, <https://doi.org/10.1080/18811248.2007.9711332>
- [3] A.Yu. Konobeyev , C.H.M. Broeders, U. Fischer, L. Mercatali, I. Schmuck, S.P. Simakov, The Proton Activation Data File PADF-2007, Proc. Int. Conf.on Nuclear Data for Science and Technology (ND2007), Nice, 2007, p.709, <https://doi.org/10.1051/ndata:07352>
- [4] A.J. Koning, S. Hilaire, M.C. Duijvestijn, TALYS-0.64. A Nuclear Reaction Program. User Manual, NRG Report 21297/04.62741/P FAI/AK/AK, Nuclear Research and Consultancy Group (NRG) December 5, 2004 (2004)
- [5] A.J. Koning, S. Hilaire and M.C. Duijvestijn, TALYS: Comprehensive nuclear reaction modelling, Proc. Int. Conf. on Nuclear Data for Science and Technology (ND2004), AIP vol. 769, eds. R.C. Haight, M.B. Chadwick, T. Kawano, P. Talou, Sep. 26 - Oct. 1, 2004, Santa Fe, USA, 2005, p. 1154
- [6] C.H.M. Broeders, A.Yu. Konobeyev, Yu.A. Korovin, V.P. Lunev, M. Blann, ALICE/ASH-pre-compound and evaporation model code system for calculation of excitation functions, energy and angular distributions of emitted particles in nuclear reactions at intermediate energies, FZKA 7183, Forschungszentrum Karlsruhe (2006), <https://doi.org/10.5445/IR/270064701>
- [7] A. Koning, S. Hilaire, S. Goriely, TALYS-1.96/2.0 (2021). Simulation of nuclear reactions, https://tendl.web.psi.ch/tendl_2021/talys.html
- [8] A.J. Koning, S. Hilaire, M.C. Duijvestijn, TALYS-1.0, Proc. Int. Conf. on Nuclear Data for Science and Technology (ND2007), Nice, France, eds O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, S.Leray, *EDP Sciences*, N058, 2008, p.211, <https://doi.org/10.1051/ndata:07767>
- [9] TALYS-G code, <https://www.inr.kit.edu/english/940.php>

- [10] A.Yu. Konobeyev, U. Fischer, P.E. Pereslavtsev, A. Koning, M. Blann, Implementation of GDH model in TALYS-1.7 code, KIT Scientific Working Papers, N45, 2016, <https://doi.org/10.5445/IR/1000052543>
- [11] A.Yu. Konobeyev, U. Fischer, A.J. Koning, P.E. Pereslavtsev, M. Blann, Implementation of the geometry dependent hybrid model in TALYS. *J. Korean Phys. Soc.* 59, 935 (2011), <https://doi.org/10.3938/jkps.59.935>
- [12] M. Blann, Importance of the nuclear density distribution on pre-equilibrium decay, *Phys. Rev. Lett.*, 28 (1972) 757
- [13] M. Blann, H.K. Vonach, Global test of modified precompound decay models, *Phys. Rev. C* 28 (1983) 1475.
- [14] A. Iwamoto A., K. Harada, Mechanism of cluster emission in nucleon-induced preequilibrium reactions, *Phys. Rev. C* 26 (1982) 1821
- [15] K. Sato, A. Iwamoto, K. Harada, Pre-equilibrium emission of light composite particles in the framework of the exciton model *Phys. Rev. C* 28 (1983) 1527
- [16] P. Obložinský, I. Ribanský, Emission rate of preformed α particles in preequilibrium decay, *Phys. Lett.* 74B (1978) 6
- [17] A.Yu. Konobeyev, V.P. Lunev, Yu.N. Shubin, Pre-equilibrium emission of clusters, *Acta Phys. Slov.* 45 (1995) 705
- [18] S.G. Mashnik, A.J. Sierk, CEM03.03 User manual, Report LA-UR-12-01364, 2012, https://mcnp.lanl.gov/pdf_files/la-ur-12-01364.pdf
- [19] S.G. Mashnik, L.M. Kerby, MCNP6 simulation of light and medium nuclei fragmentation at intermediate energies, *EPJ Web of Conferences*, 117 (2016) 03008, <https://doi.org/10.1051/epjconf/201611703008>
- [20] PHITS, Version 3.27 (2022) <https://phits.jaea.go.jp/index.html>
- [21] T. Sato, Y. Iwamoto, S. Hashimoto, T. Ogawa, T. Furuta, S. Abe, T. Kai, P.-E. Tsai, N. Matsuda, H. Iwase, H. Shigyo, L. Sihver, and K. Niita, Features of Particle and Heavy Ion Transport code System (PHITS), *J. Nucl. Sci. Technol.* 55 (2018) 684, <https://doi.org/10.1080/00223131.2017.1419890>
- [22] A.Yu. Konobeyev, U. Fischer, Simulation of heavy cluster emission in nucleon induced reactions on targets from C to Bi at intermediate energies, KIT Scientific Reports, 7684, 2014, <https://doi.org/10.5445/KSP/1000043611>
- [23] A.Yu. Konobeyev, U. Fischer, P.E. Pereslavtsev, M. Blann, Improved simulation of the pre-equilibrium triton emission in nuclear reactions induced by nucleons, *Nuclear Data Sheets*, 118 (2014) 280

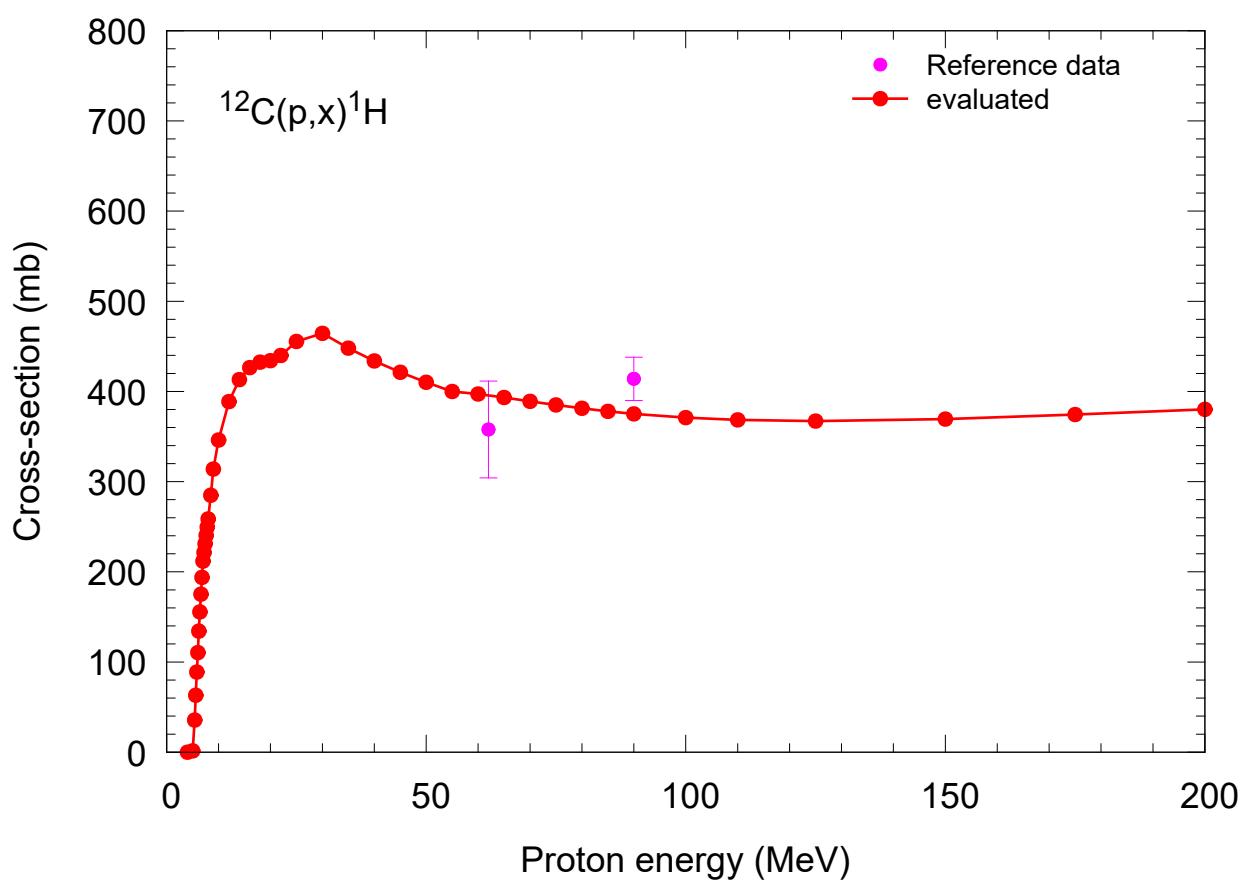
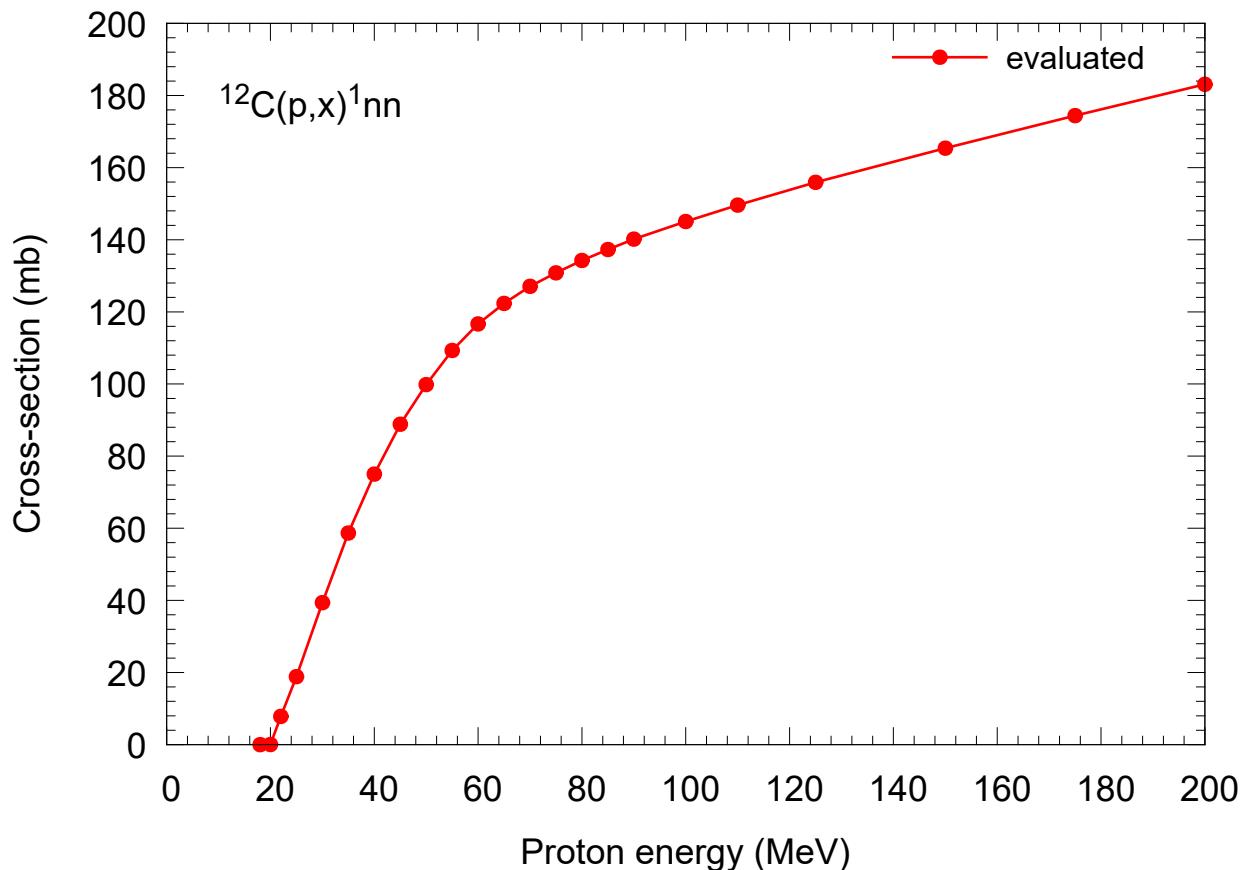
- [24] A. Yu. Konobeyev, U. Fischer, P.E. Pereslavitsev, Computational Approach for Evaluation of Nuclear Data Including Covariance Information, *J. Korean Phys. Soc.* 59 (2011) 923, <https://doi.org/10.3938/jkps.59.923>
- [25] K.K. Gudima, S.G. Mashnik, V.D. Toneev, Cascade-exciton model of nuclear reactions, *Nucl. Phys. A* 401 (1983) 329
- [26] S. Furihata, Statistical analysis of light fragment production from medium energy proton-induced reactions, *Nucl. Instr. Meth. Phys. Res.B* 171 (2000) 251
- [27] S. Furihata, K. Niita, S. Meigo, Y. Ikeda, F. Maekawa, The GEM code - a simulation program for the evaporation and fission process of an excited nucleus, Report JAERI-Data/Code 2001-015, JAERI (March, 2001), <https://jopss.jaea.go.jp/pdfdata/JAERI-Data-Code-2001-015.pdf>
- [28] S. Furihata, T. Nakamura, Calculation of nuclide production from proton induced reactions on heavy targets with INC/GEM, *J. Nucl. Sci. Technol. Suppl.* 2 (2002) 758, <https://doi.org/10.1080/00223131.2002.10875208>
- [29] E. Fermi, High energy nuclear events, *Progress of Theoretical Physics*, 5 (1950) 570, <https://doi.org/10.1143/ptp/5.4.570>
- [30] The Liege intranuclear cascade model, <https://irfu.cea.fr/dphn/Spallation/incl.html>
- [31] A. Boudard, J. Cugnon, J.-C. David, S. Leray, D. Mancusi, New potentialities of the Liege intranuclear cascade model for reactions induced by nucleons and light charged particles, *Phys. Rev. C* 87 (2013) 014606
- [32] D. Mancusi, A. Boudard, J. Cugnon, J.-C. David, P. Kaitaniemi, S. Leray, Extension of the Liege intranuclear-cascade model to reactions induced by light nuclei, *Phys. Rev. C* 90 (2014) 054602
- [33] A. Koning, S. Hilaire, S. Goriely, TALYS-1.95. A nuclear reaction program, 2019, https://tendl.web.psi.ch/tendl_2021/talys.html
- [34] C.H.M. Broeders, A.Yu. Konobeyev, Phenomenological model for non-equilibrium deuteron emission in nucleon induced reactions”, *Kerntechnik*, 70 (2005) 260
- [35] A.Yu. Konobeyev, Yu.A. Korovin, Calculation of pre-compound alpha particle spectra for nucleon induced reactions on the basis of the hybrid exciton model, *Kerntechnik*, 58 (1993) 72
- [36] A.J. Koning, D. Rochman, J. Sublet, N. Dzysiuk, M. Fleming, S. van der Marck, TENDL: Complete nuclear data library for innovative nuclear science and technology, *Nuclear Data Sheets* 155 (2019) 1

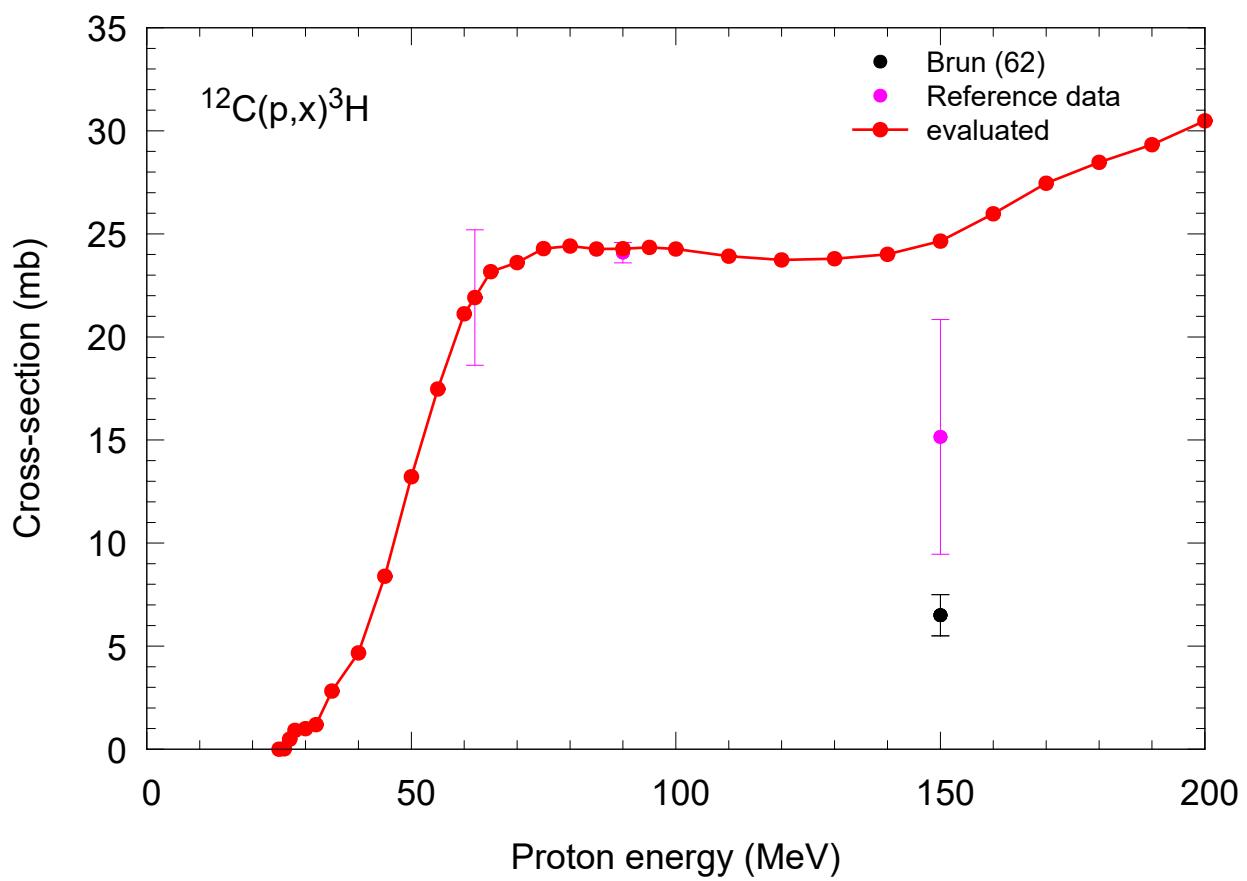
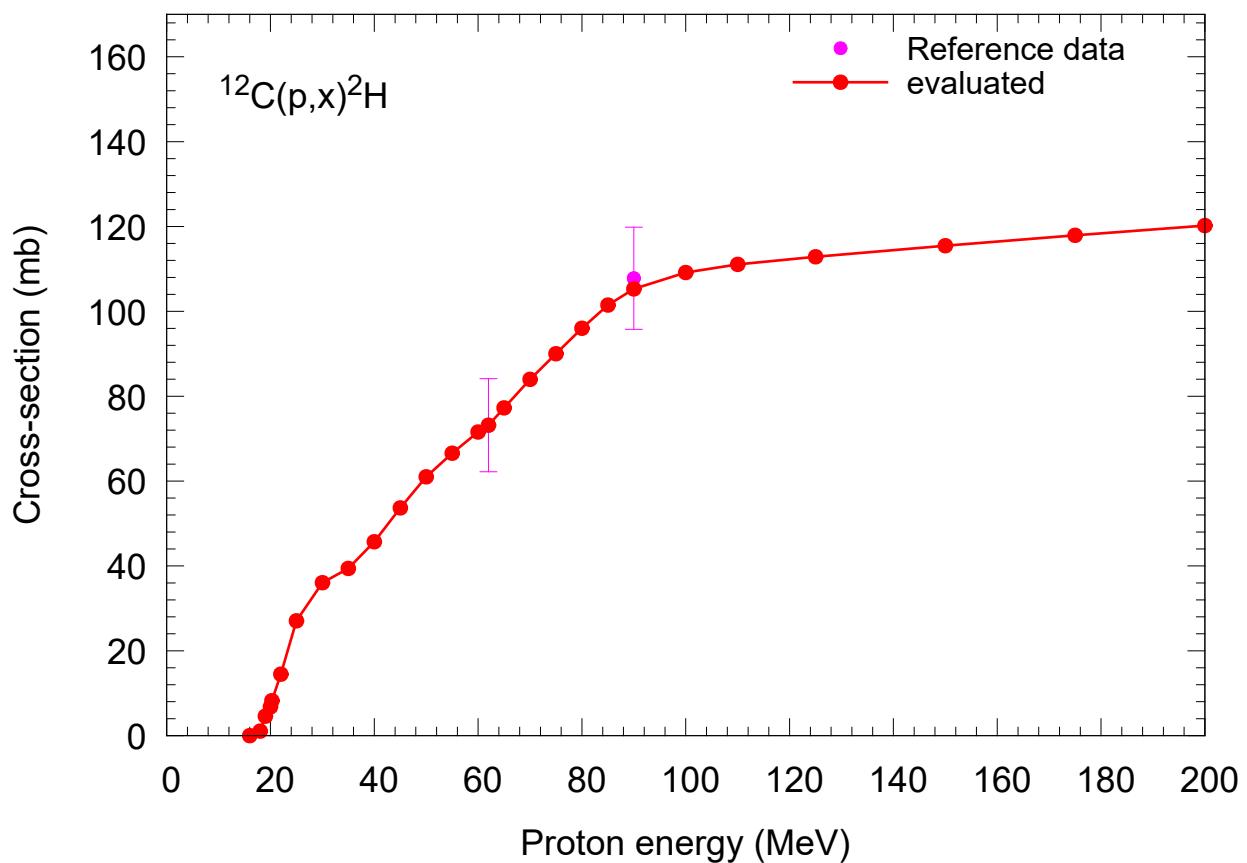
- [37] Experimental Nuclear Reaction Data (EXFOR), <https://www-nds.iaea.org/exfor/>
- [38] LEXFOR. EXFOR Compiler's Manual, Ed. O. Schwerer, IAEA-NDS-208, 2015, <https://www-nds.iaea.org/exfor/x4guide/manuals/iaea-nds-0208-201508.pdf>
- [39] ENDF-6 Formats Manual, Ed. A. Trkov, M. Herman. D. A. Brown, BNL-203218-2018-INRE, 2018, <https://www.nndc.bnl.gov/csewg/docs/endf-manual.pdf>
- [40] ENDF/B-VIII.0, Proton reaction sublibrary, <https://www.nndc.bnl.gov/endf-b8.0/download.html>
- [41] D.A. Brown, M.B. Chadwick, R. Capote, A.C. Kahler, A. Trkov, M.W. Herman, A.A. Sonzogni, Y. Danon, A.D. Carlson, M. Dunn, D.L. Smith, G.M. Hale, G. Arbanas, R. Arcilla, C.R. Bates, B. Beck, B. Becker, F. Brown, R.J. Casperson, J. Conlin, D.E. Cullen, M.-A. Descalle, R. Firestone, T. Gaines, K.H. Guber, A.I. Hawari, J. Holmes, T.D. Johnson, T. Kawano, B.C. Kiedrowski, A.J. Koning, S. Kopecky, L. Leal, J.P. Lestone, C. Lubitz, J.I. Márquez Damián, C.M. Mattoon, E.A. McCutchan, S. Mughabghab, P. Navratil, D. Neudecker, G.P.A. Nobre, G. Noguere, M. Paris, M.T. Pigni, A.J. Plompen, B. Pritychenko, V.G. Pronyaev, D. Roubtsov, D. Rochman, P. Romano, P. Schillebeeckx, S. Simakov, M. Sin, I. Sirakov, B. Sleaford, V. Sobes, E.S. Soukhovitskii, I. Stetcu, P. Talou, I. Thompson, S. van der Marck, L. Welser-Sherrill, D. Wiarda, M. White, J.L. Wormald, R.Q. Wright, M. Zerkle, G. Žerovník, Y. Zhu, ENDF/B-VIII.0: The 8th major release of the nuclear reaction data library with CIELO-project cross sections, new standards and thermal scattering data, *Nuclear Data Sheets*, 148, (2018) 1
- [42] JENDL High Energy File 2007, <https://wwwnndc.jaea.go.jp/ftpnd/jendl/jendl-he-2007.html>
- [43] Y. Watanabe, K. Kosako, S. Kunieda, S. Chiba, R. Fujimoto, H. Harada, M. Kawai, F. Maekawa, T. Murata, H. Nakashima, K. Niita, N. Shigyo, S. Shimakawa, N. Yamano, T. Fukahori, Status of JENDL High Energy File, J. of the Korean Physical Society, 59 (2011) 1040, <https://doi.org/10.3938/jkps.59.1040>
- [44] JENDL-5 Proton sublibrary, <https://wwwnndc.jaea.go.jp/ftpnd/jendl/jendl-5-p.html>
- [45] O. Iwamoto, N. Iwamoto, K. Shibata, A. Ichihara, S. Kunieda, F. Minato, S. Nakayama, Status of JENDL, *EPJ Web of Conferences*, 239 (2020) 09002, <https://doi.org/10.1051/epjconf/202023909002>
- [46] TENDL-2021 https://tendl.web.psi.ch/tendl_2021/tendl2021.html
- [47] Monitor reactions 2017, https://www-nds.iaea.org/medical/monitor_reactions.html

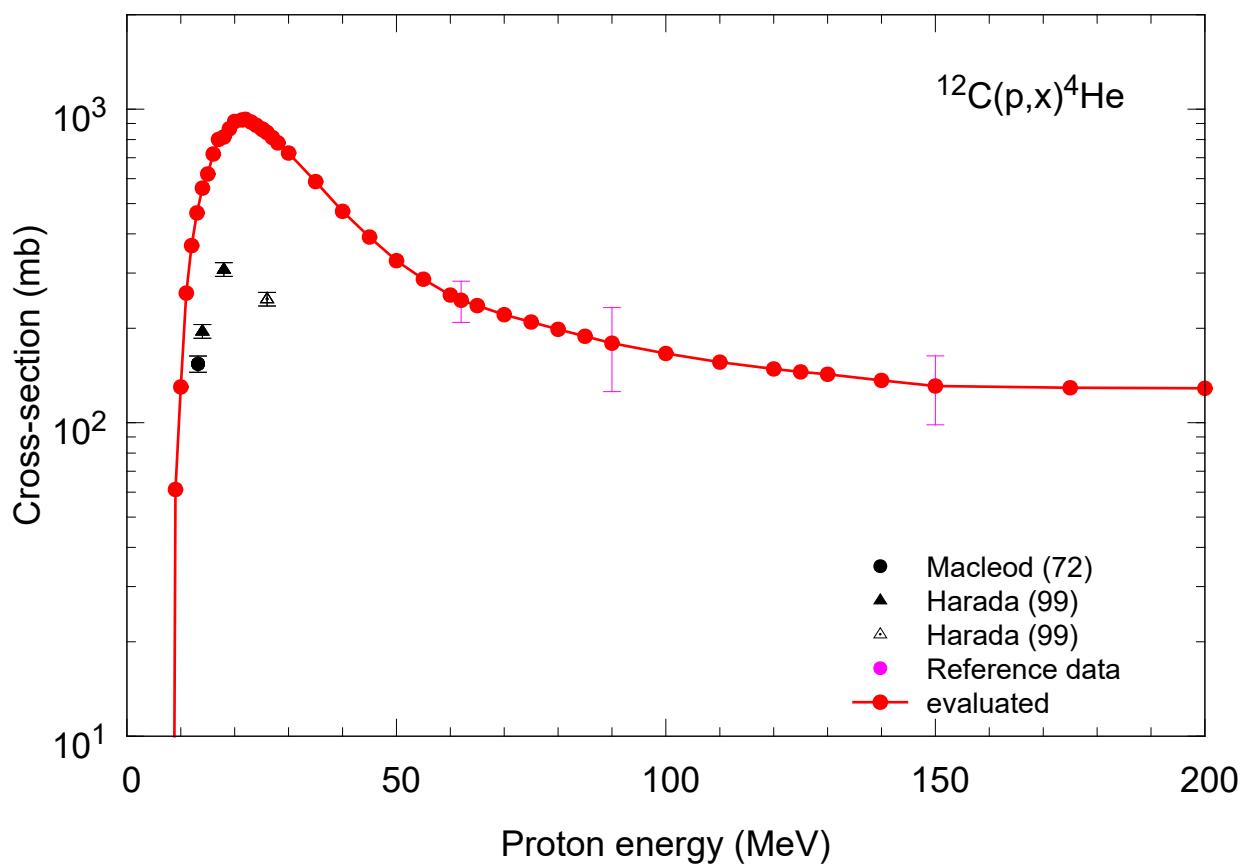
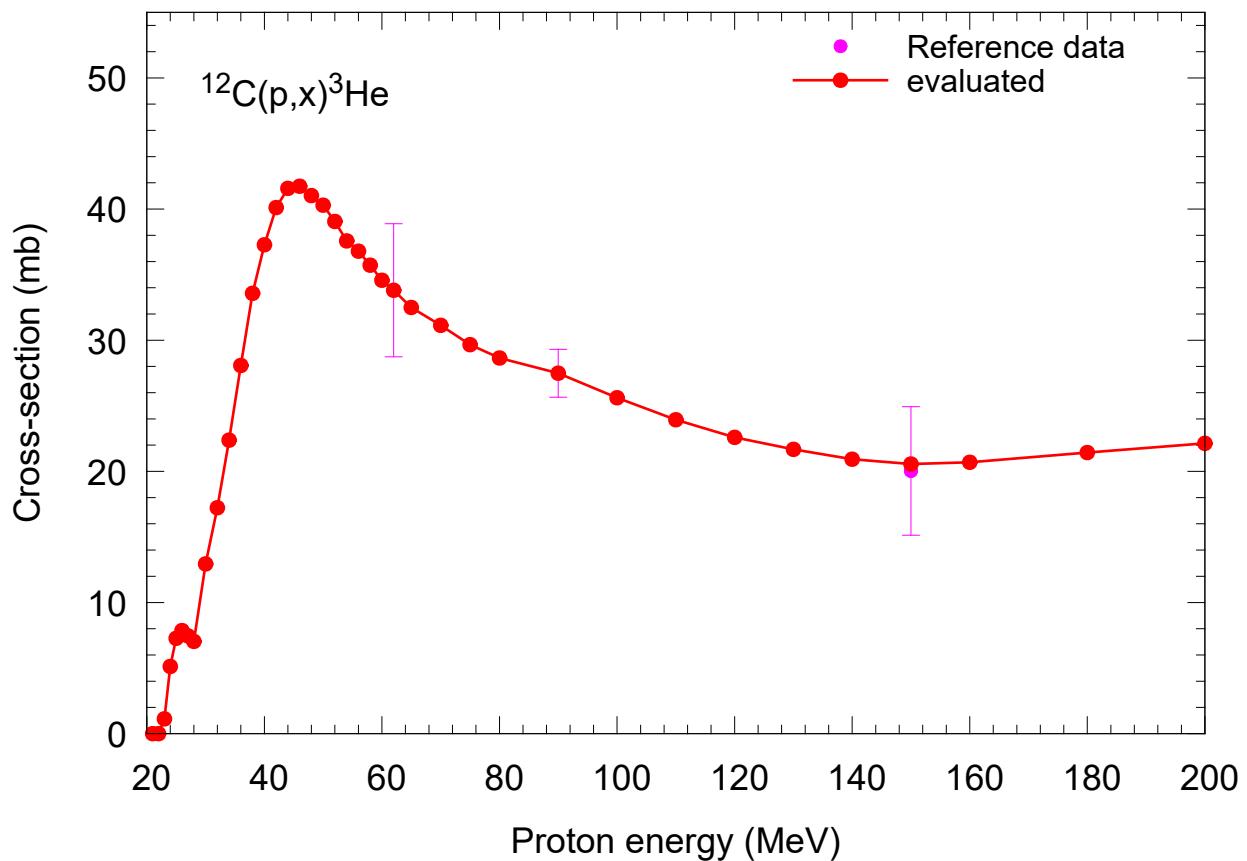
- [48] A. Hermanne, A.V. Ignatyuk, R. Capote, B.V. Carlson, J.W. Engle, M.A. Kellett, T. Kibédi, G. Kim, F.G. Kondev, M. Hussain, O. Lebeda, A. Luca, Y. Nagai, H. Naik, A.L. Nichols, F.M. Nortier, S.V. Suryanarayana, S. Takács, F.T. Tárkányi, M. Verpelli Reference cross sections for charged-particle monitor reactions, *Nuclear Data Sheets* 148 (2018) 338
- [49] Fit7C: Simple code for fitting calculated values to experimental data, <https://t1p.de/91f4h> or <https://bwsyncandshare.kit.edu/s/SEGa6pitEQLrH4b>
- [50] PADF-2. Proton activation data files for targets from C to P (2022), <https://t1p.de/3vzun> or <https://bwsyncandshare.kit.edu/s/YwCwKH5qSjBPjfx>

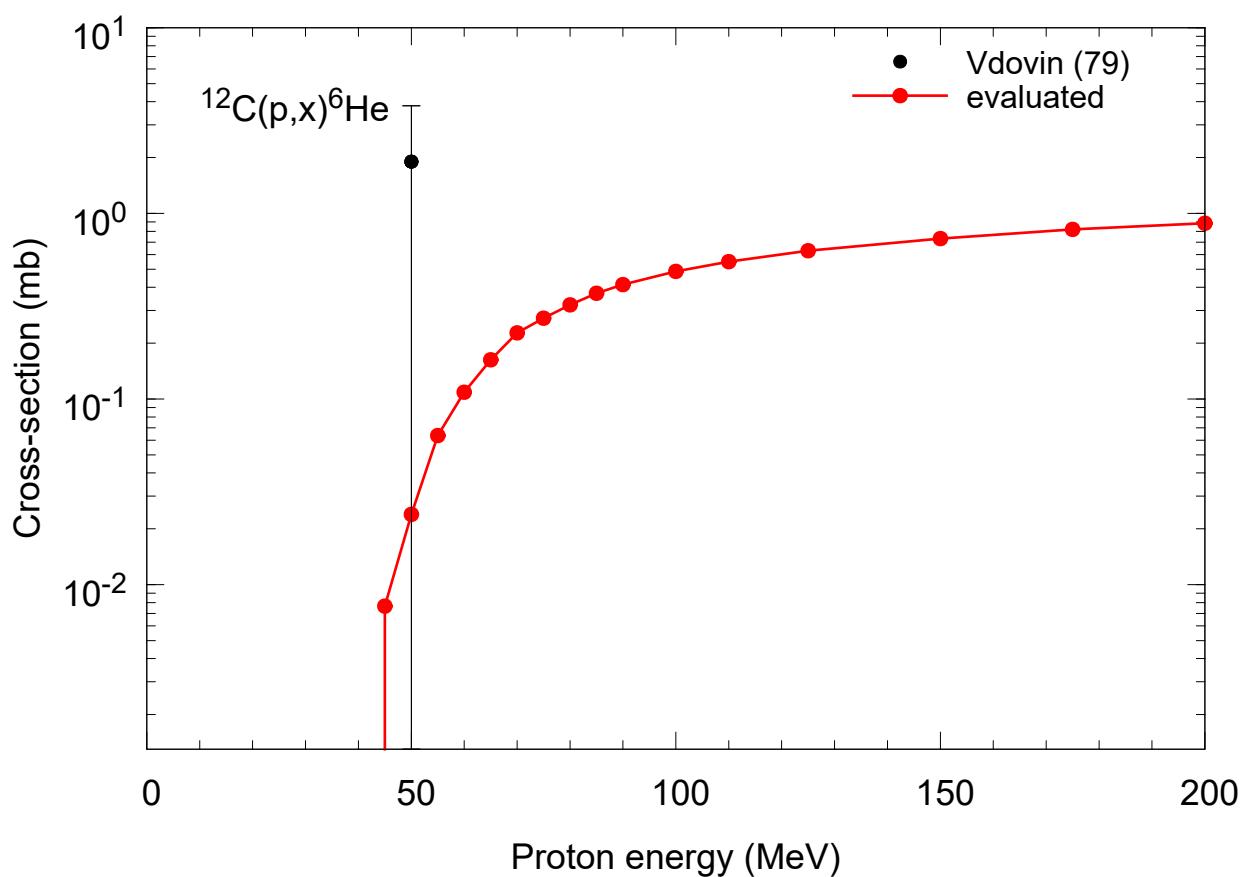
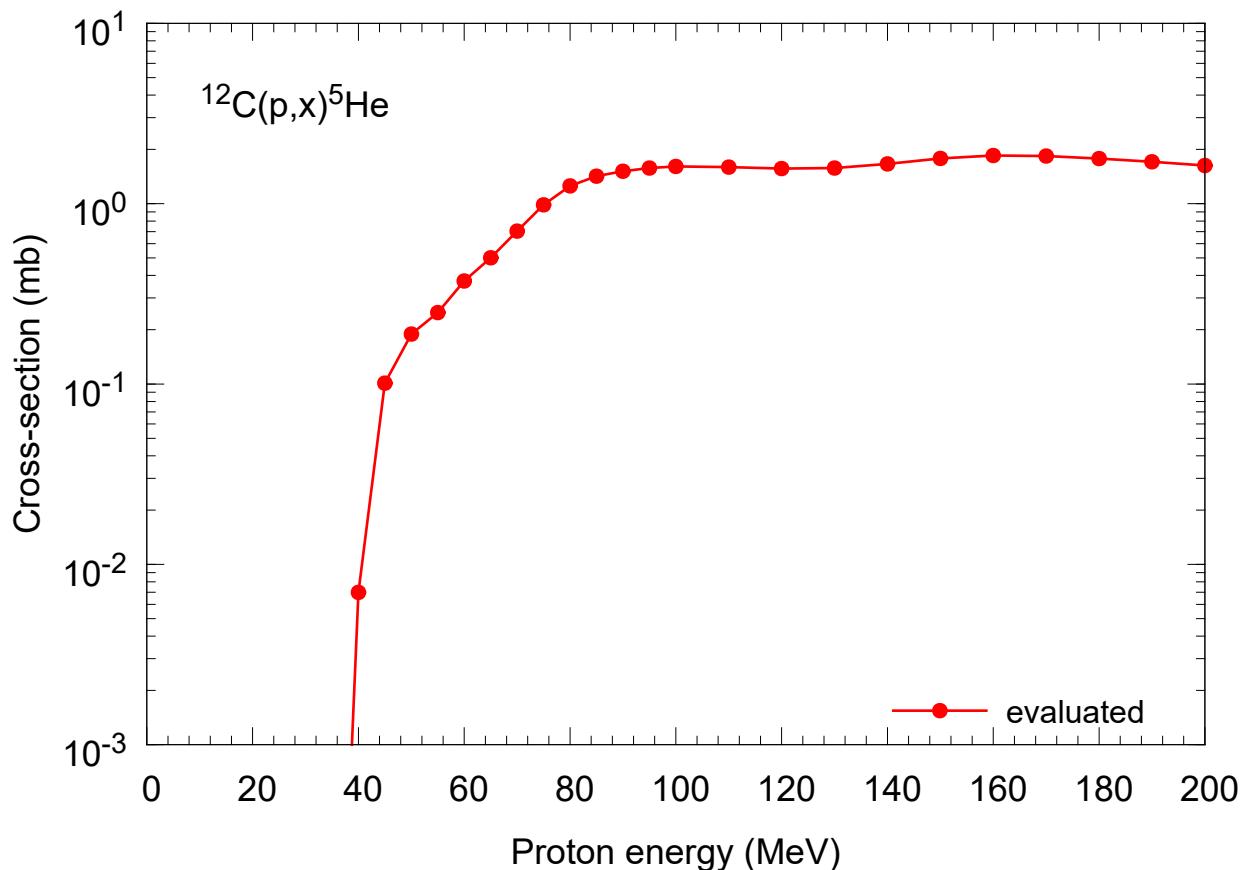
Appendix

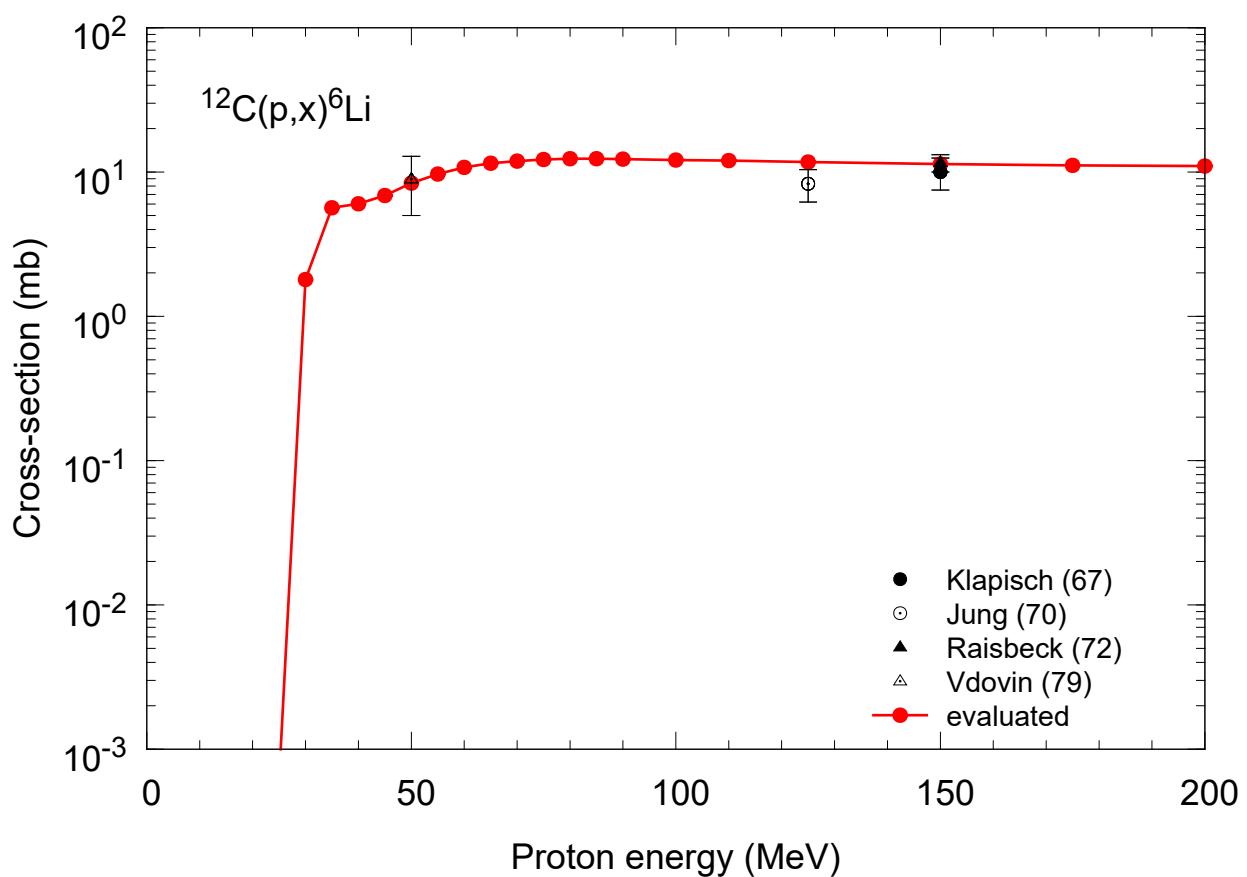
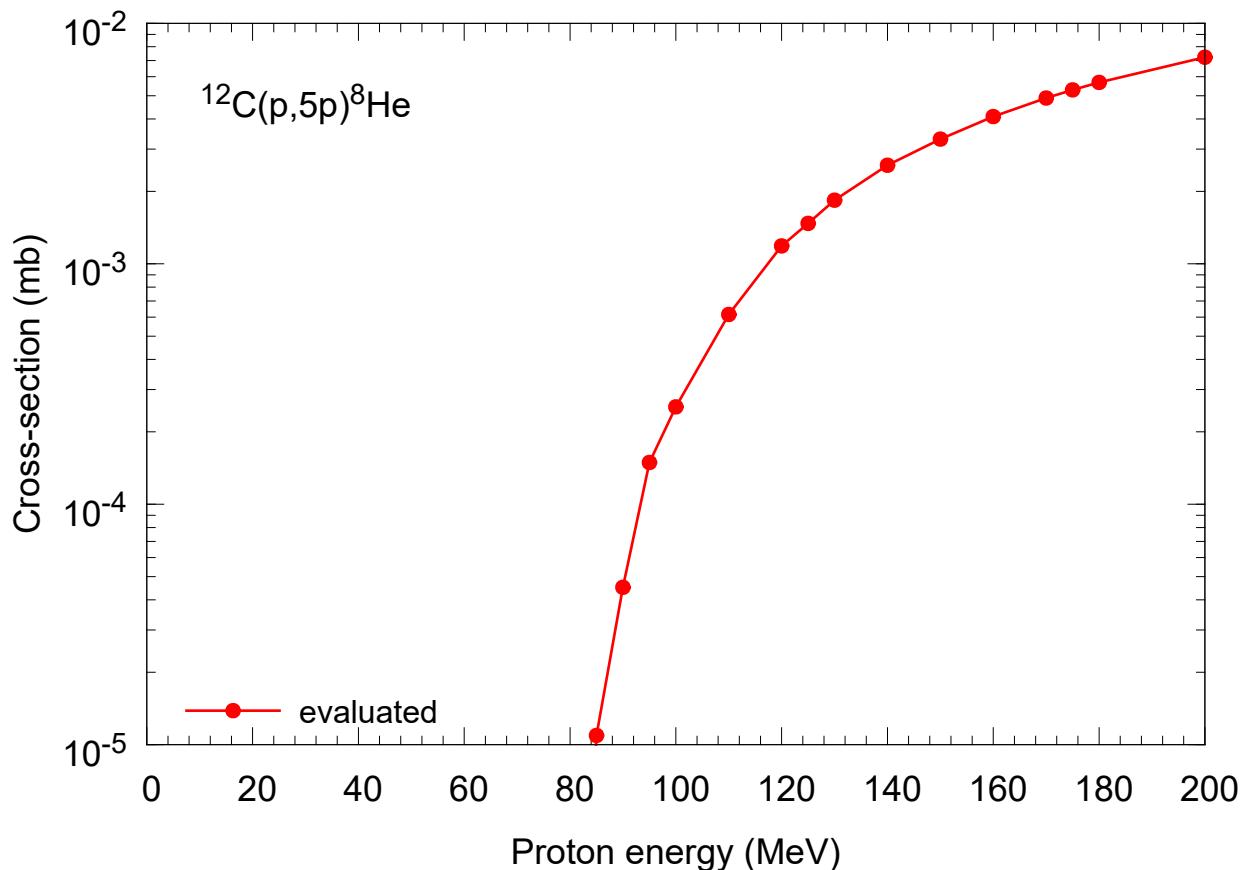
Evaluated cross-sections	A1
^{12}C	A2
^{13}C	A20
^{14}N	A37
^{15}N	A58
^{16}O	A81
^{17}O	A110
^{18}O	A140
^{19}F	A174
^{20}Ne	A212
^{21}Ne	A252
^{22}Ne	A295
^{23}Na	A341
^{24}Mg	A391
^{25}Mg	A444
^{26}Mg	A504
$^{\text{nat}}\text{Mg}$	A572
^{27}Al	A583
^{28}Si	A660
^{29}Si	A739
^{30}Si	A823
$^{\text{nat}}\text{Si}$	A911
^{31}P	A923
Data file for ^{27}Al	B1

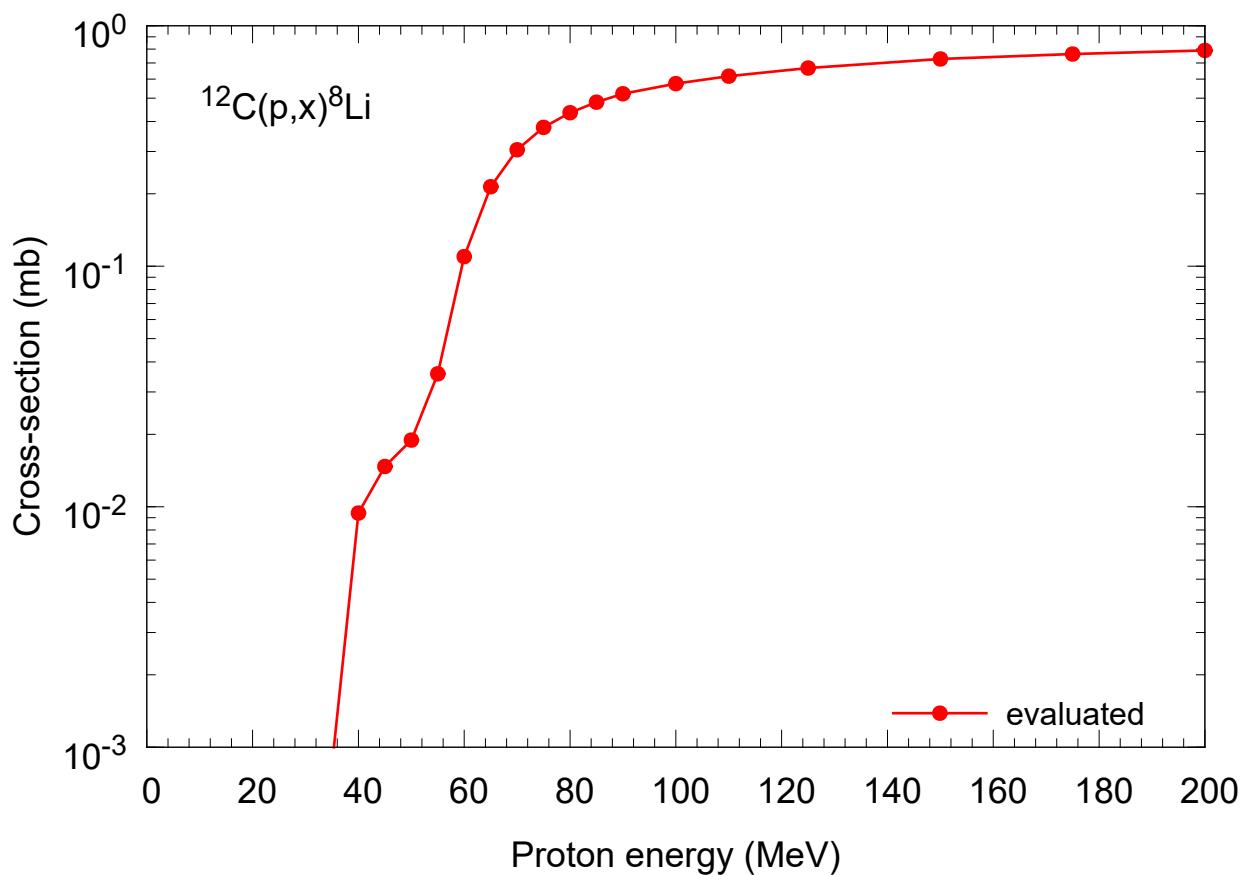
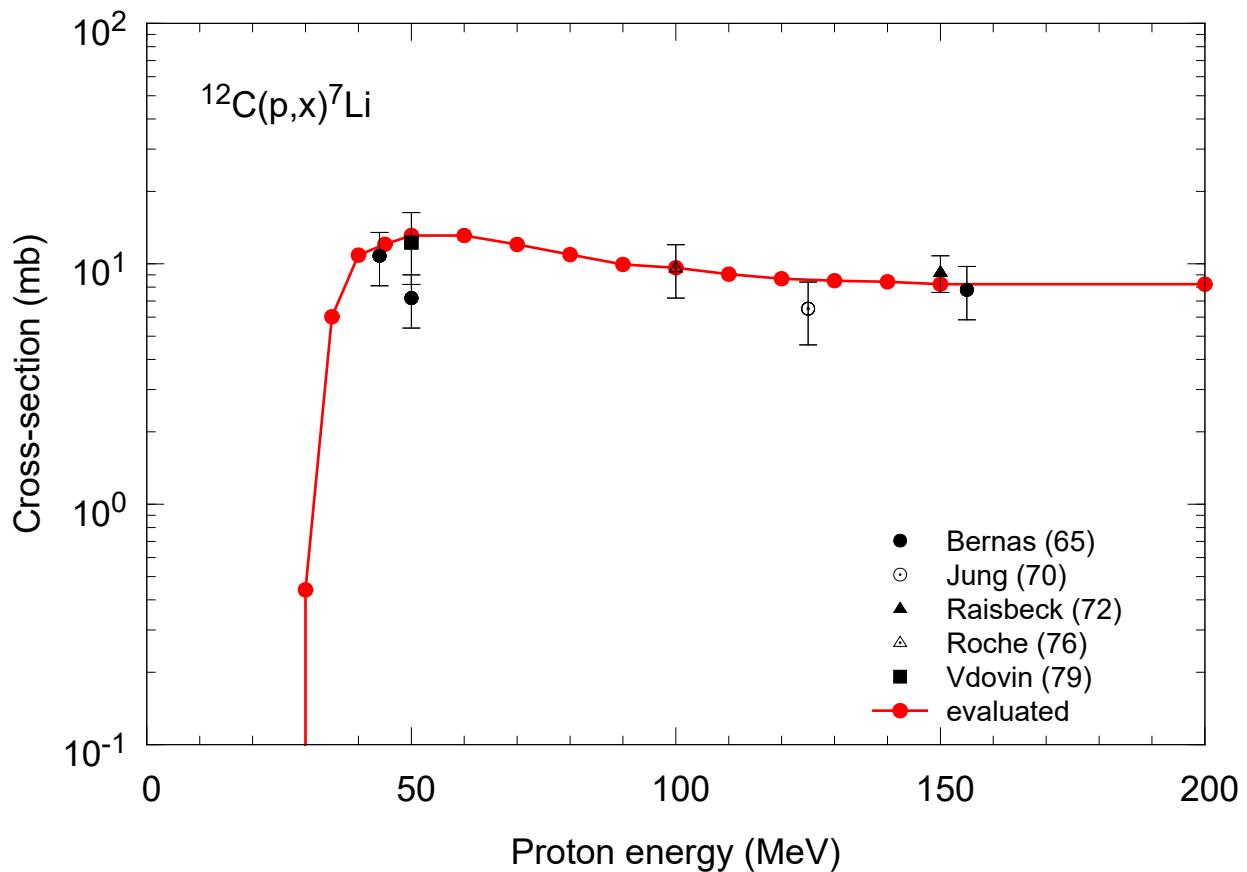


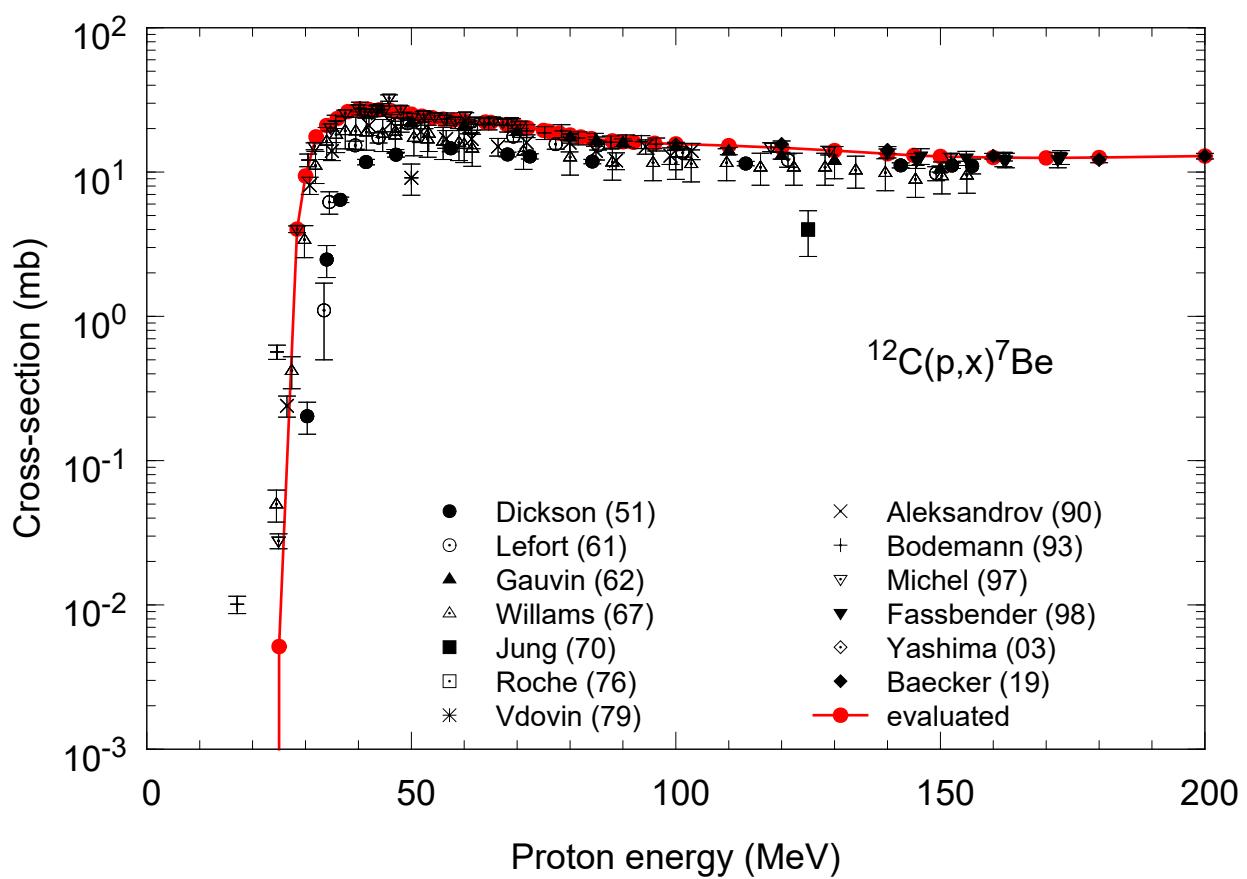
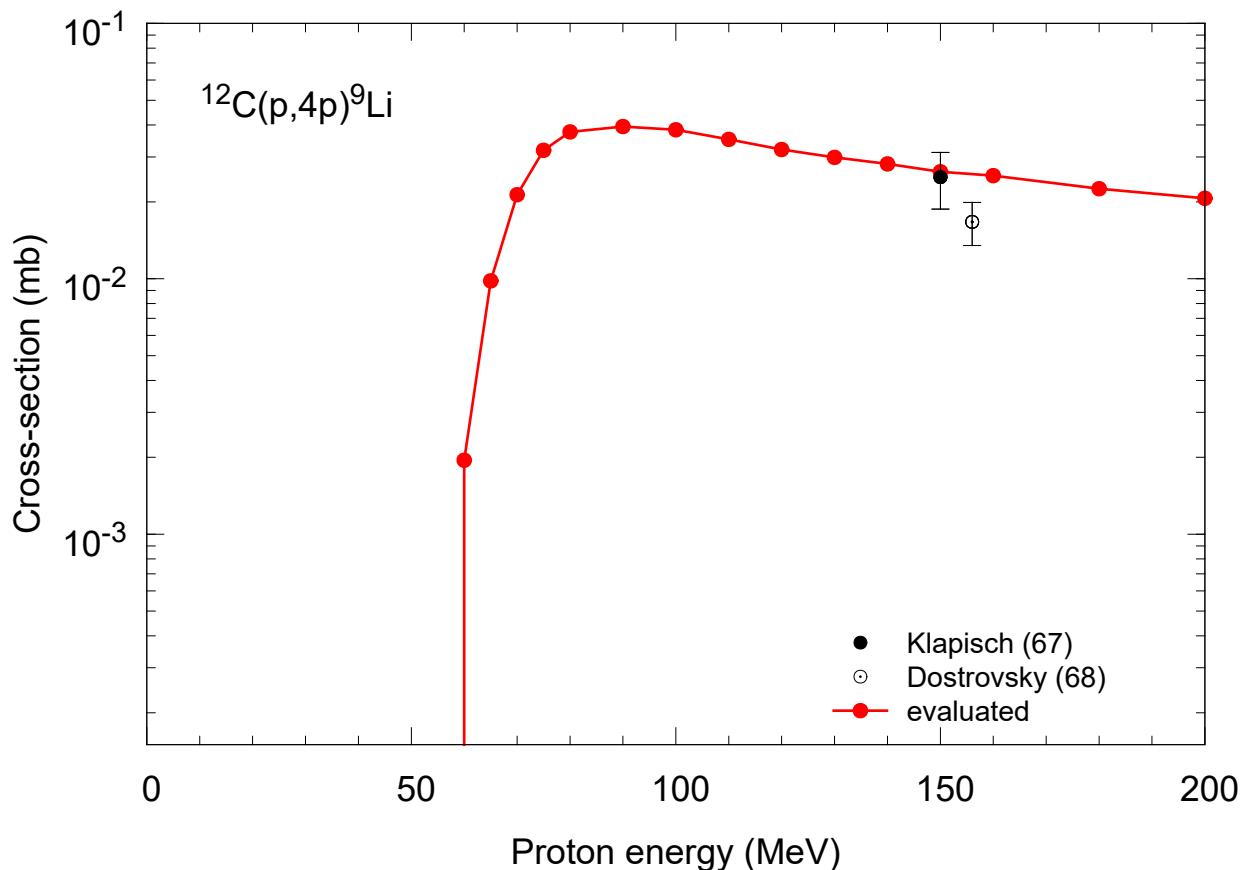


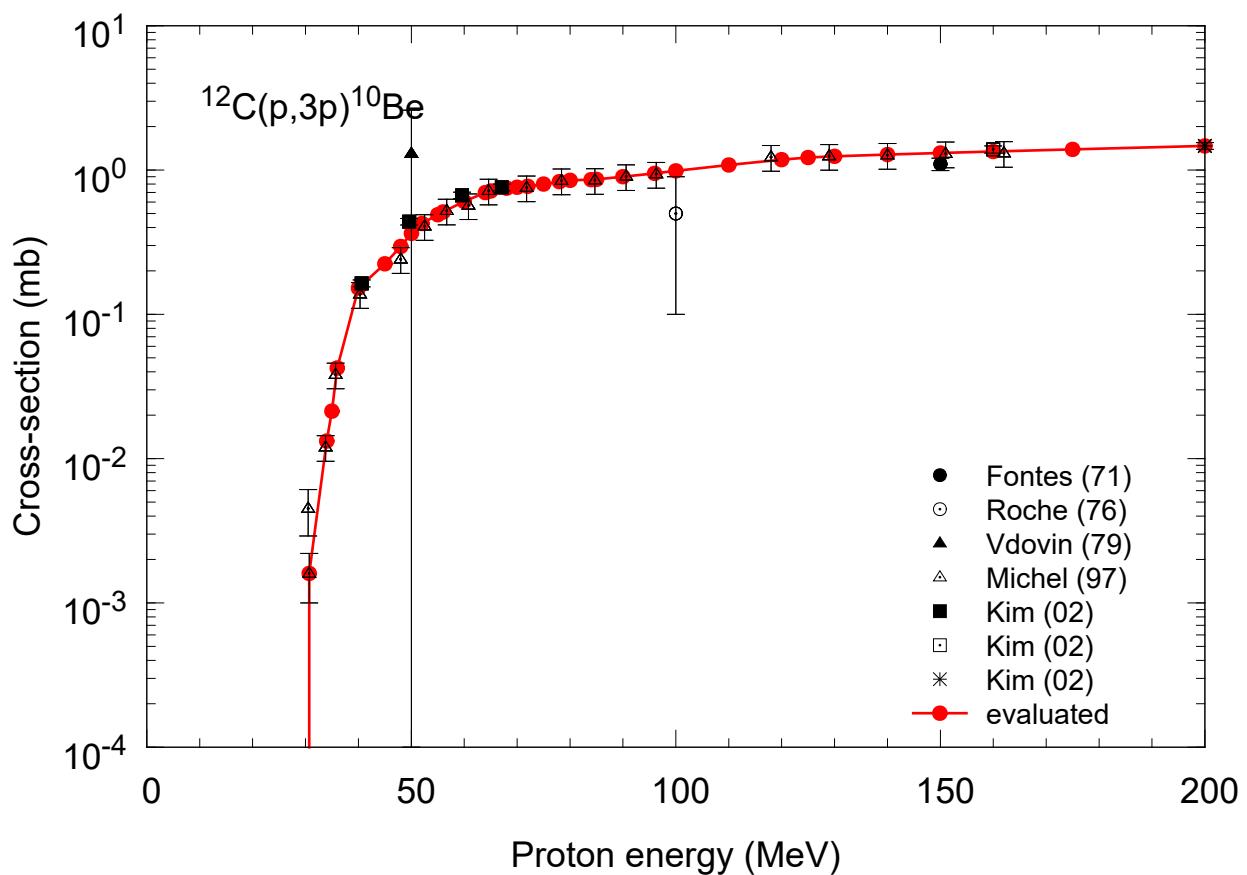
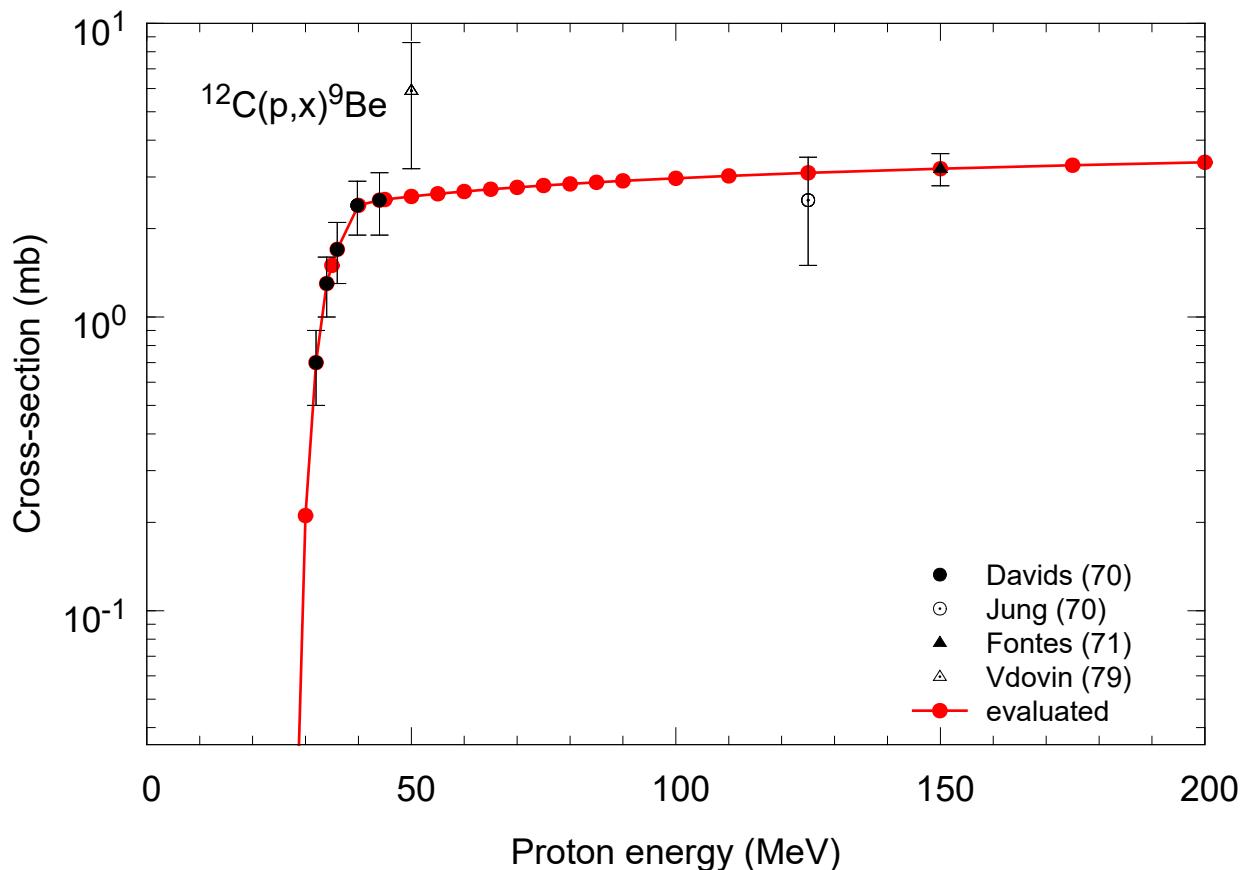


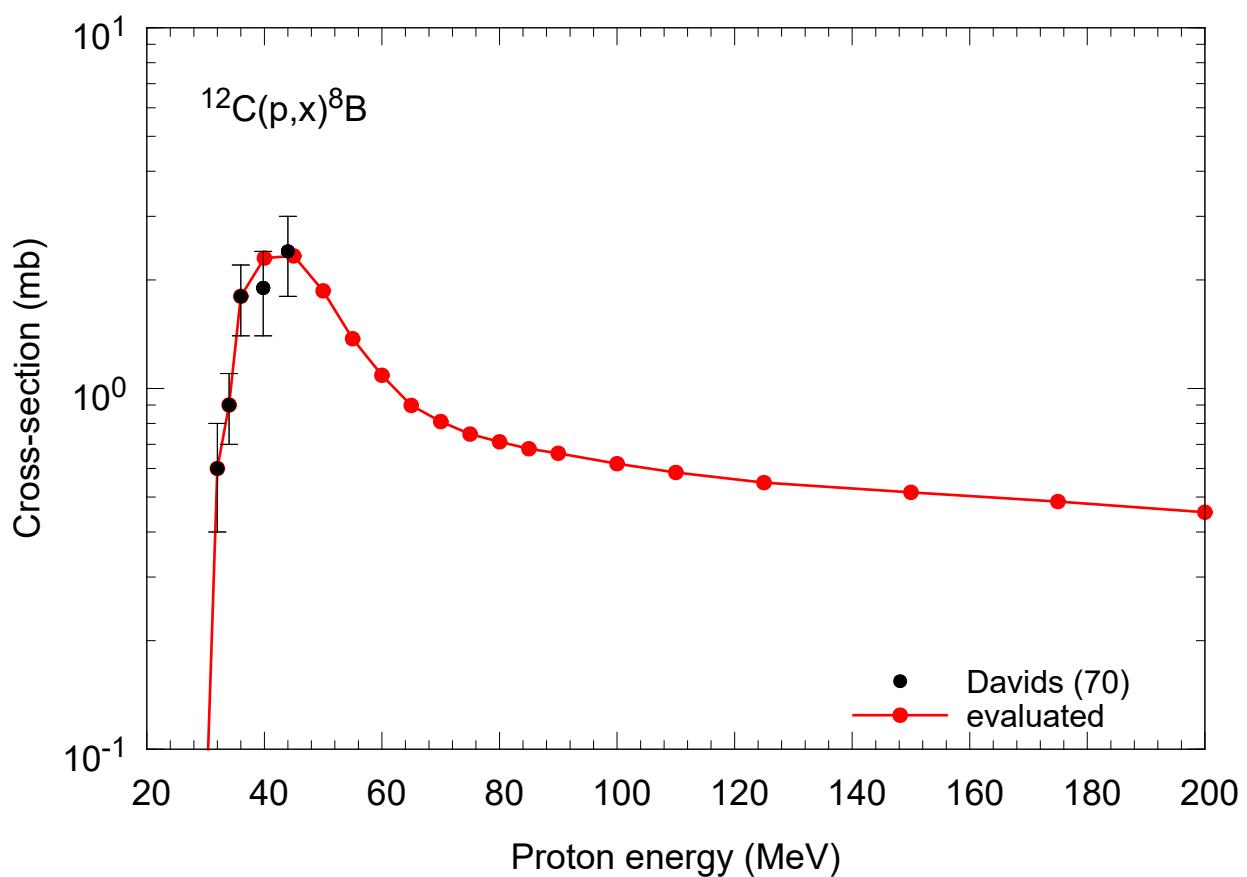
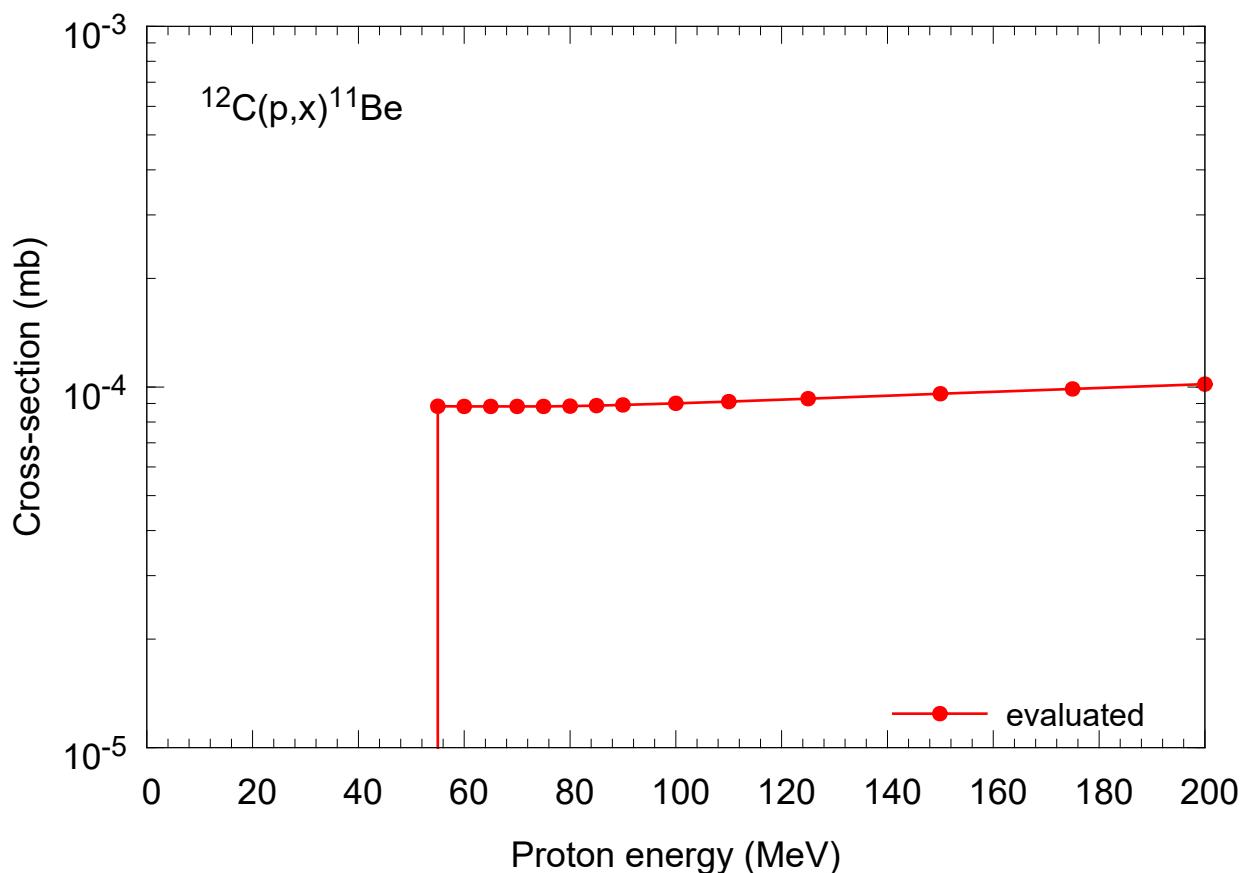


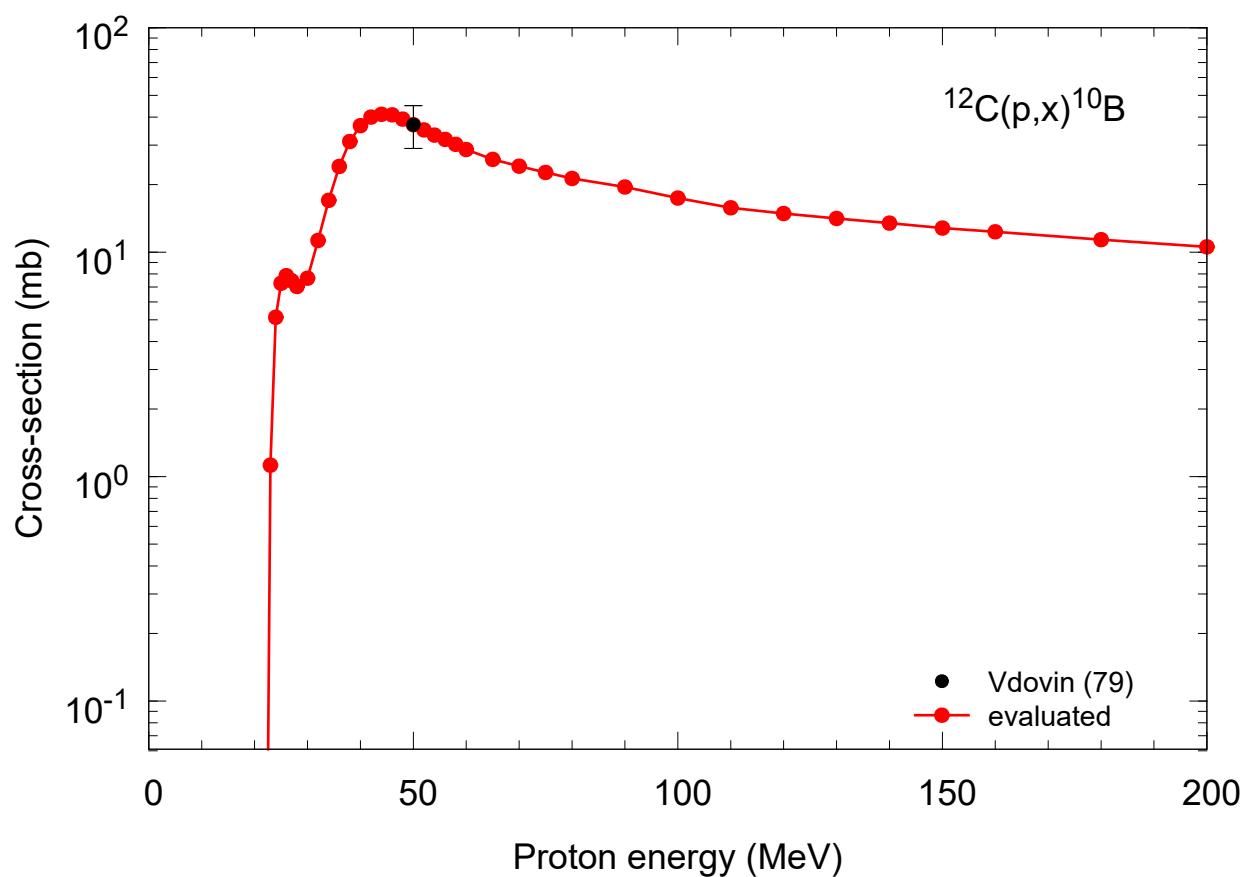
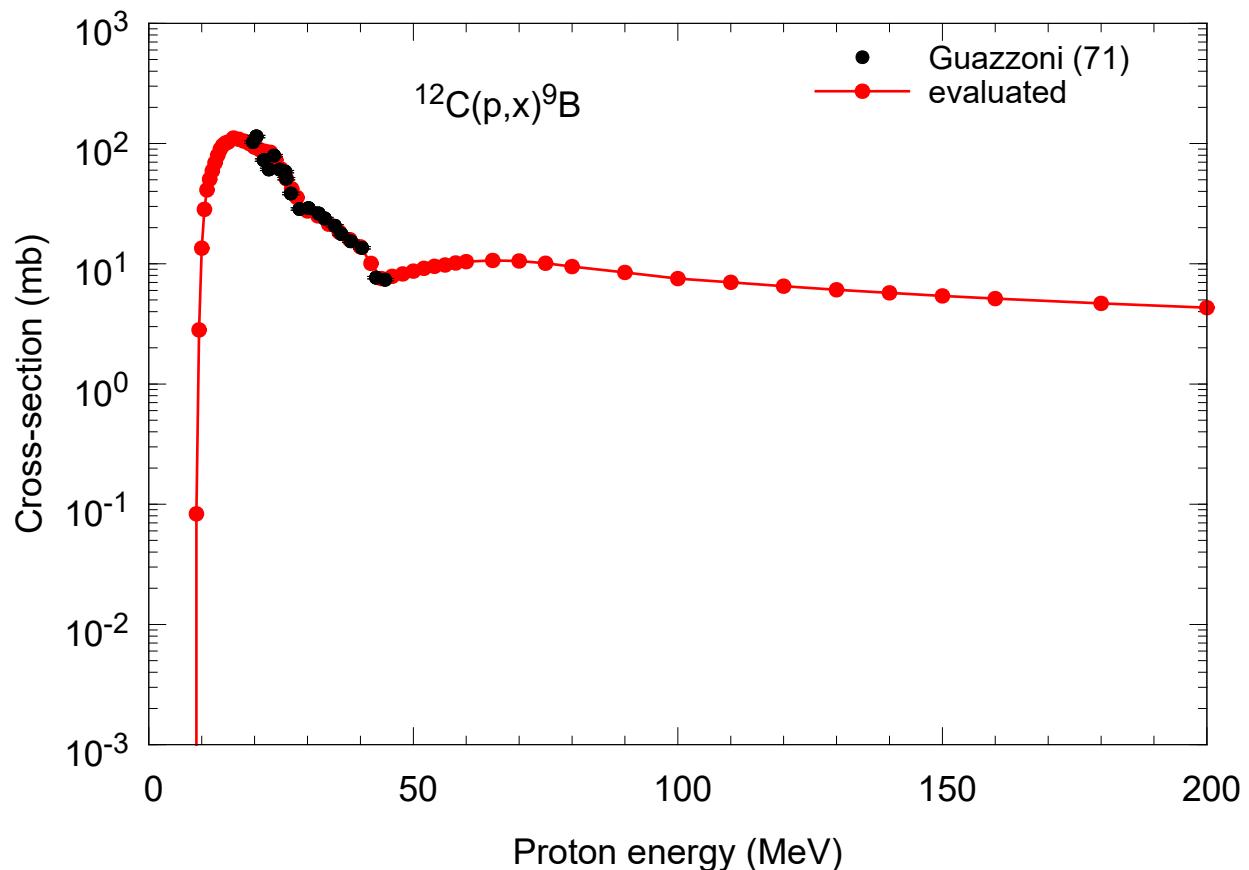


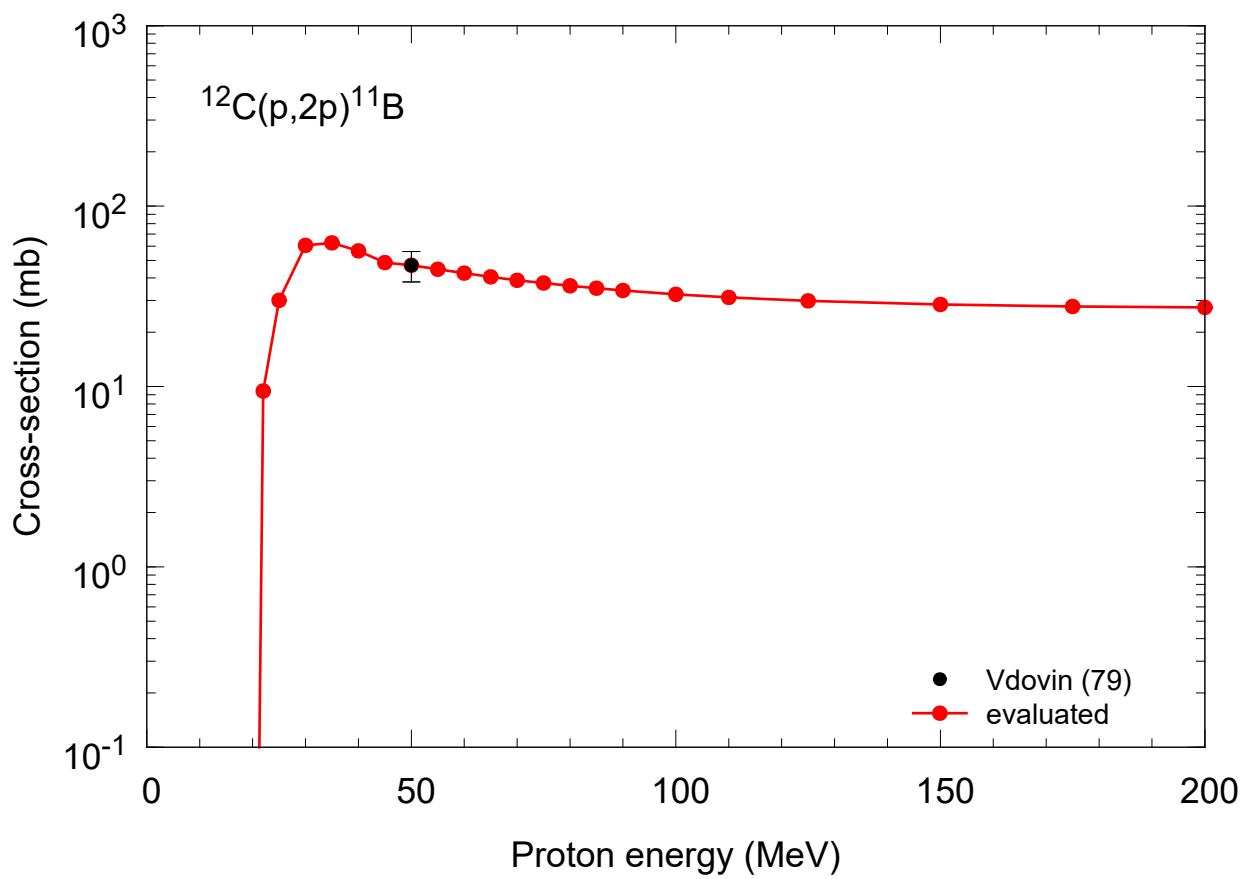
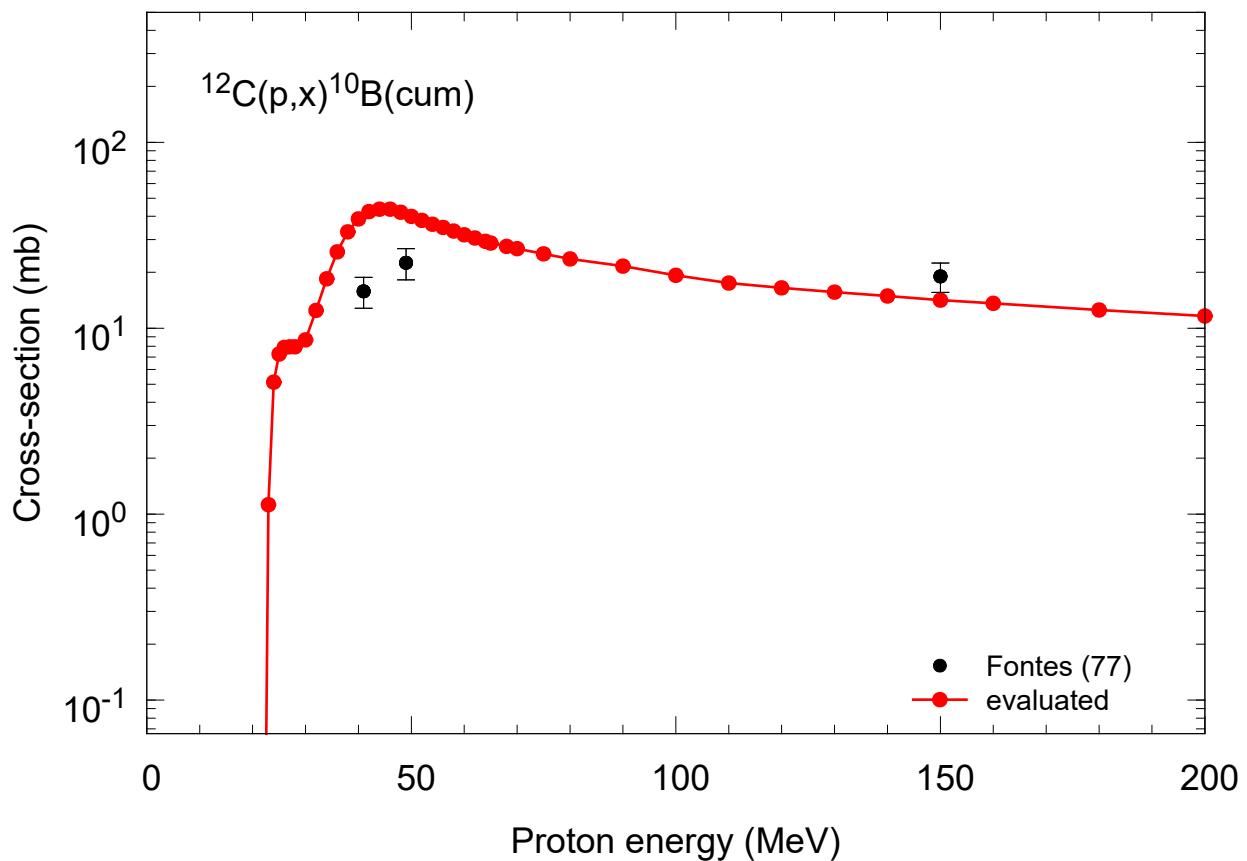


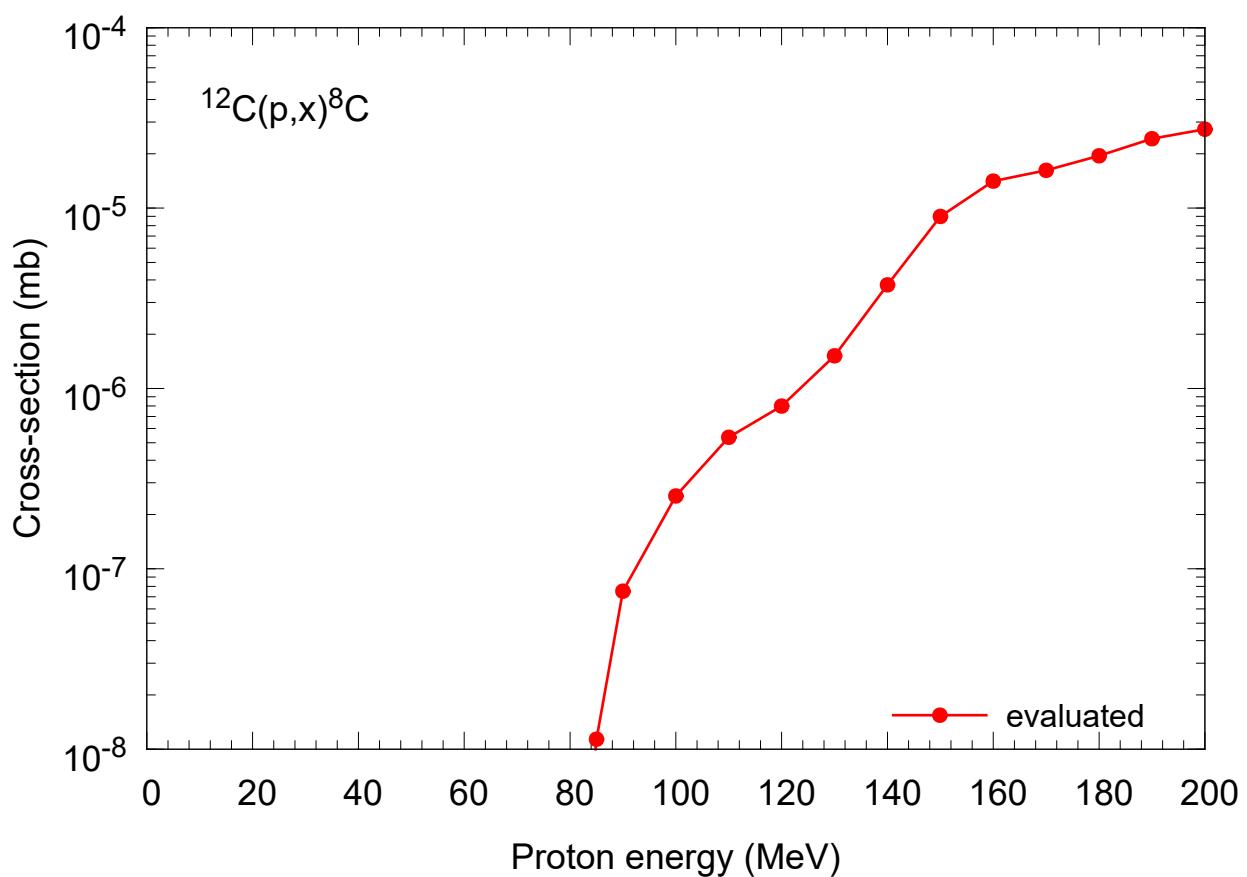
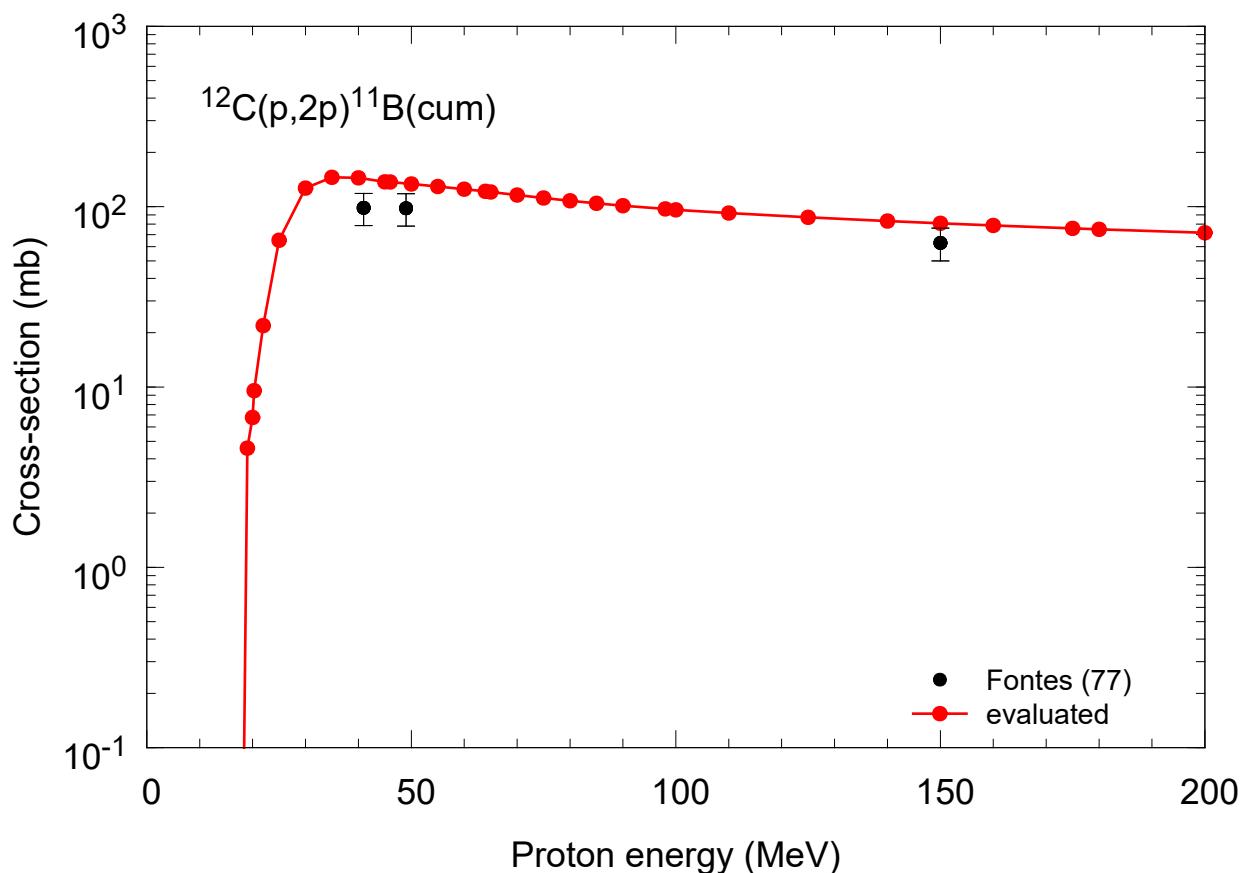


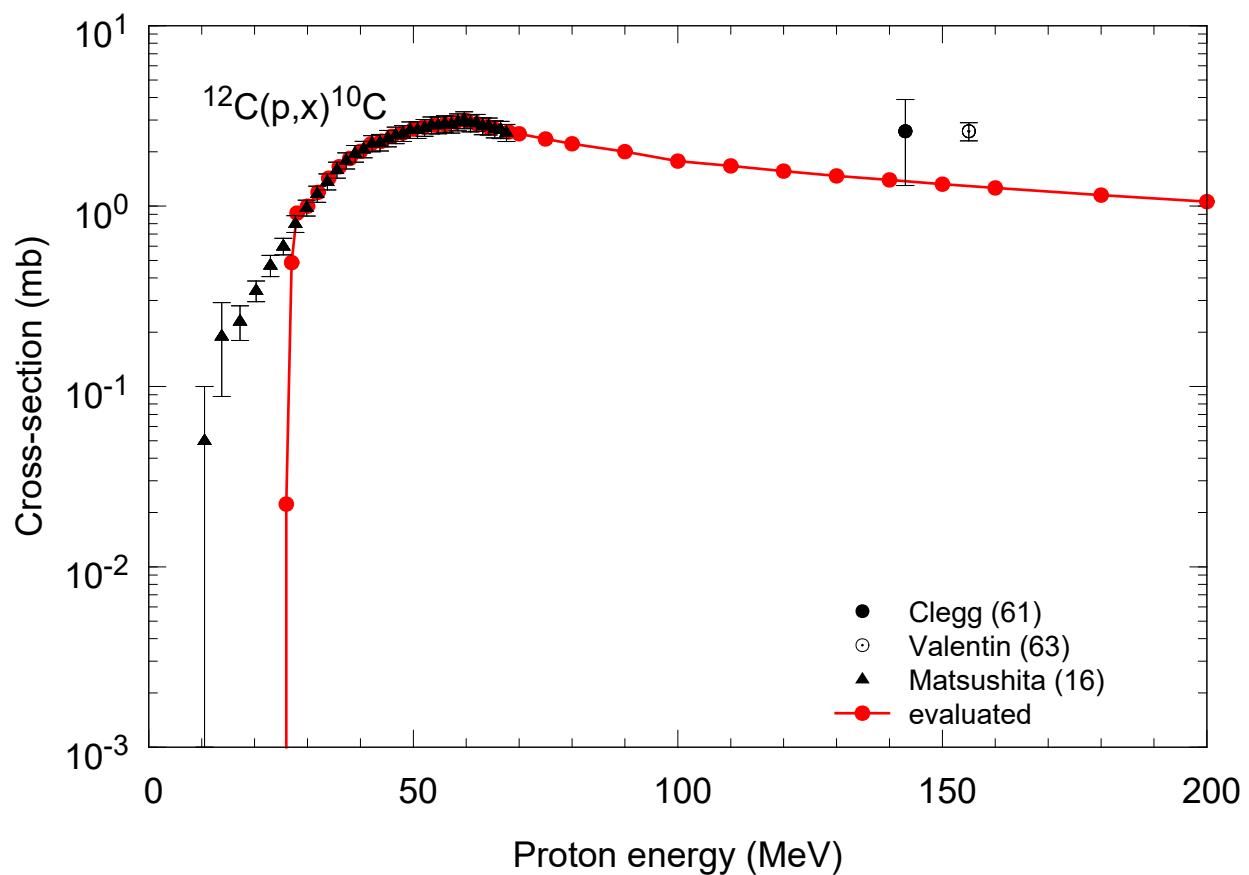
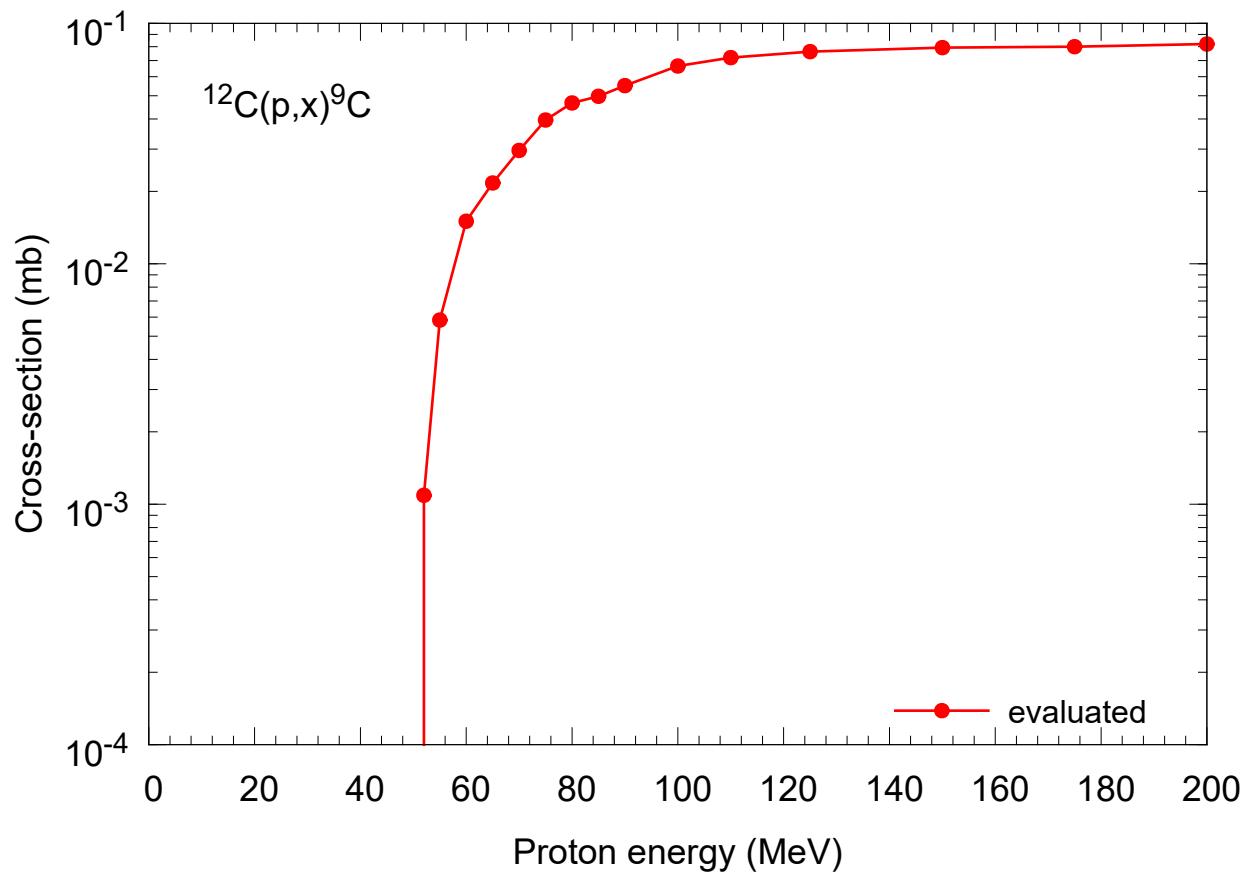


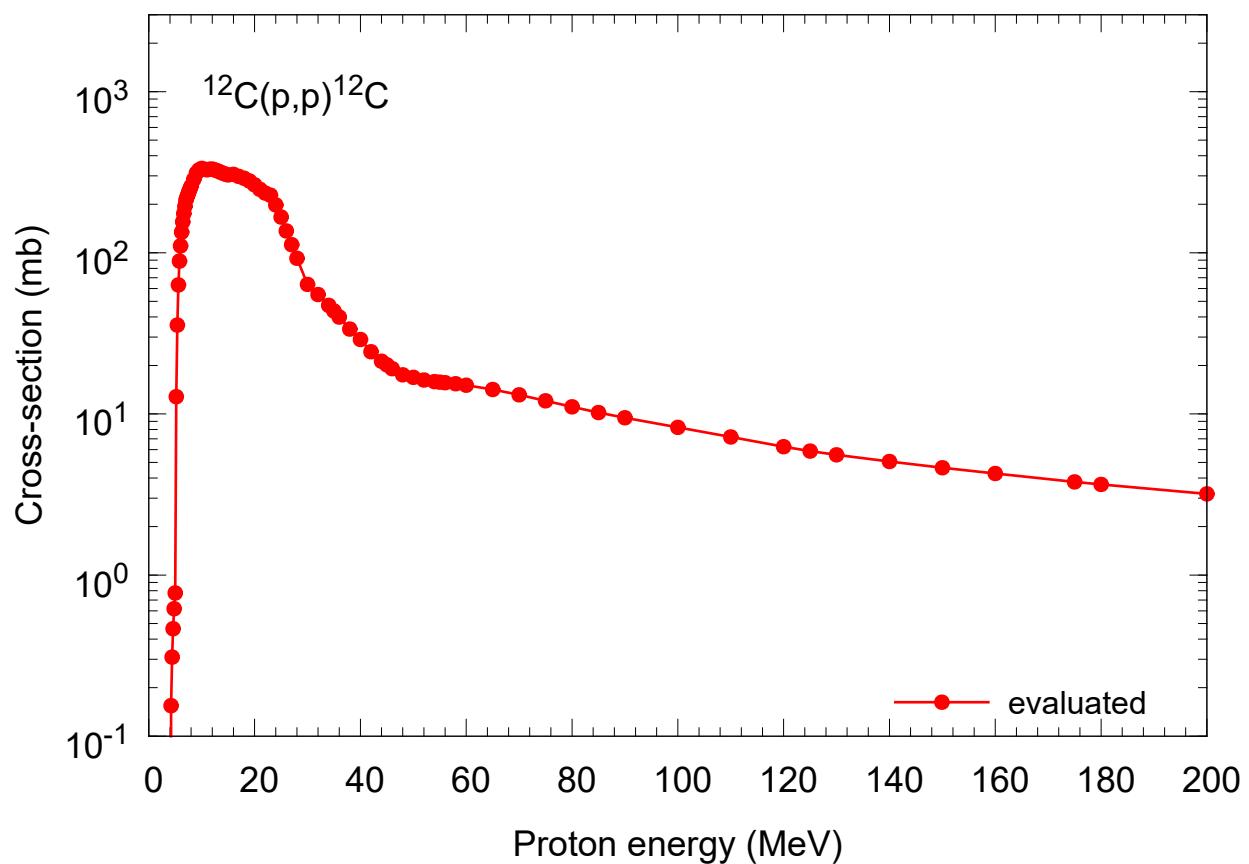
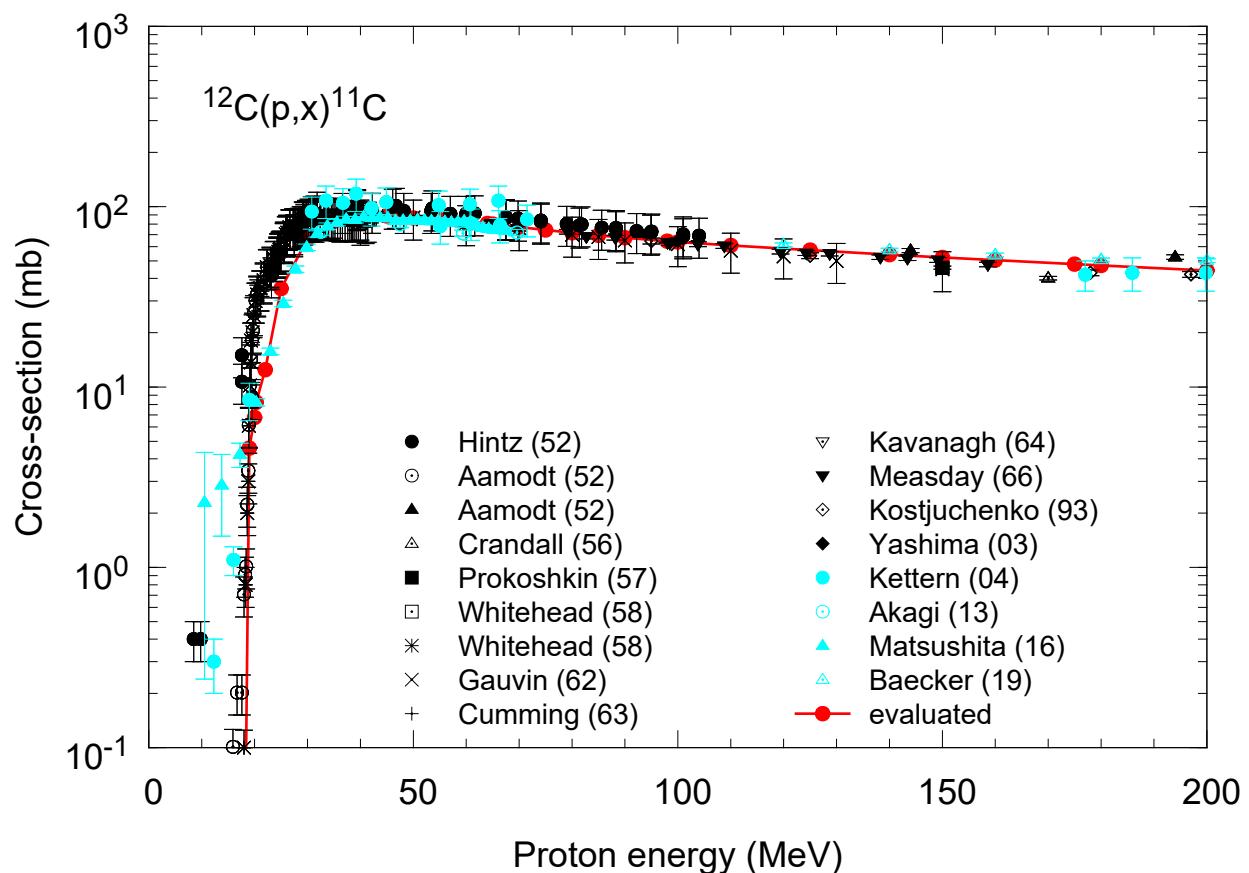


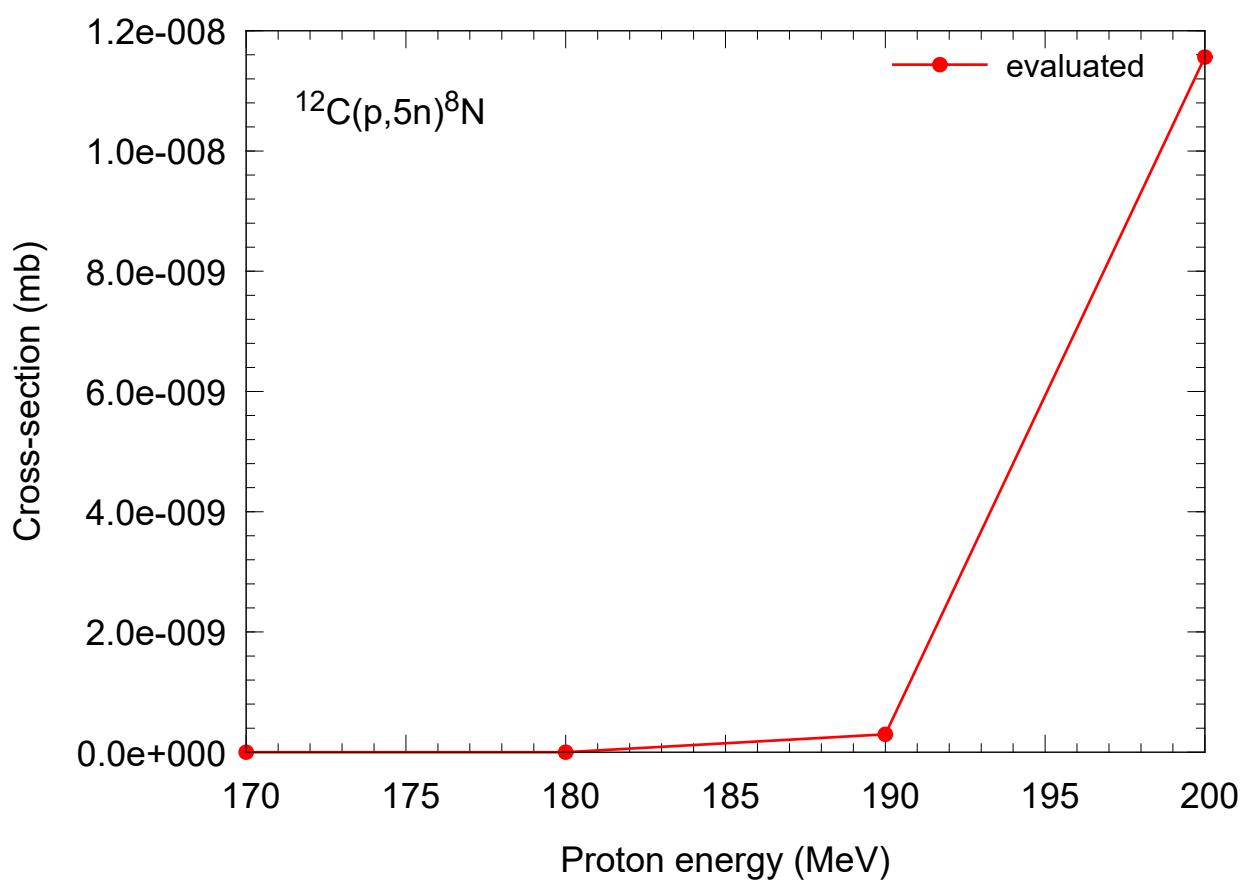
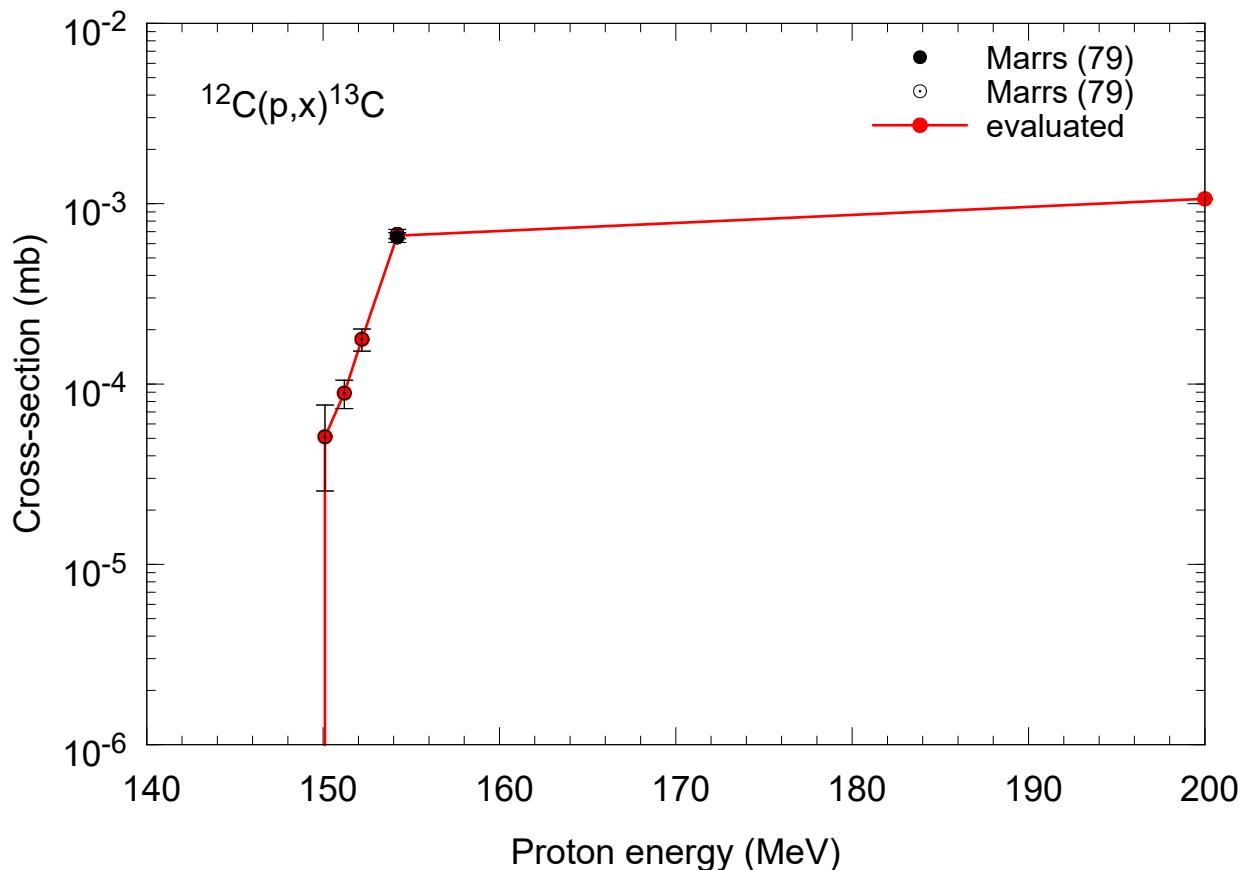


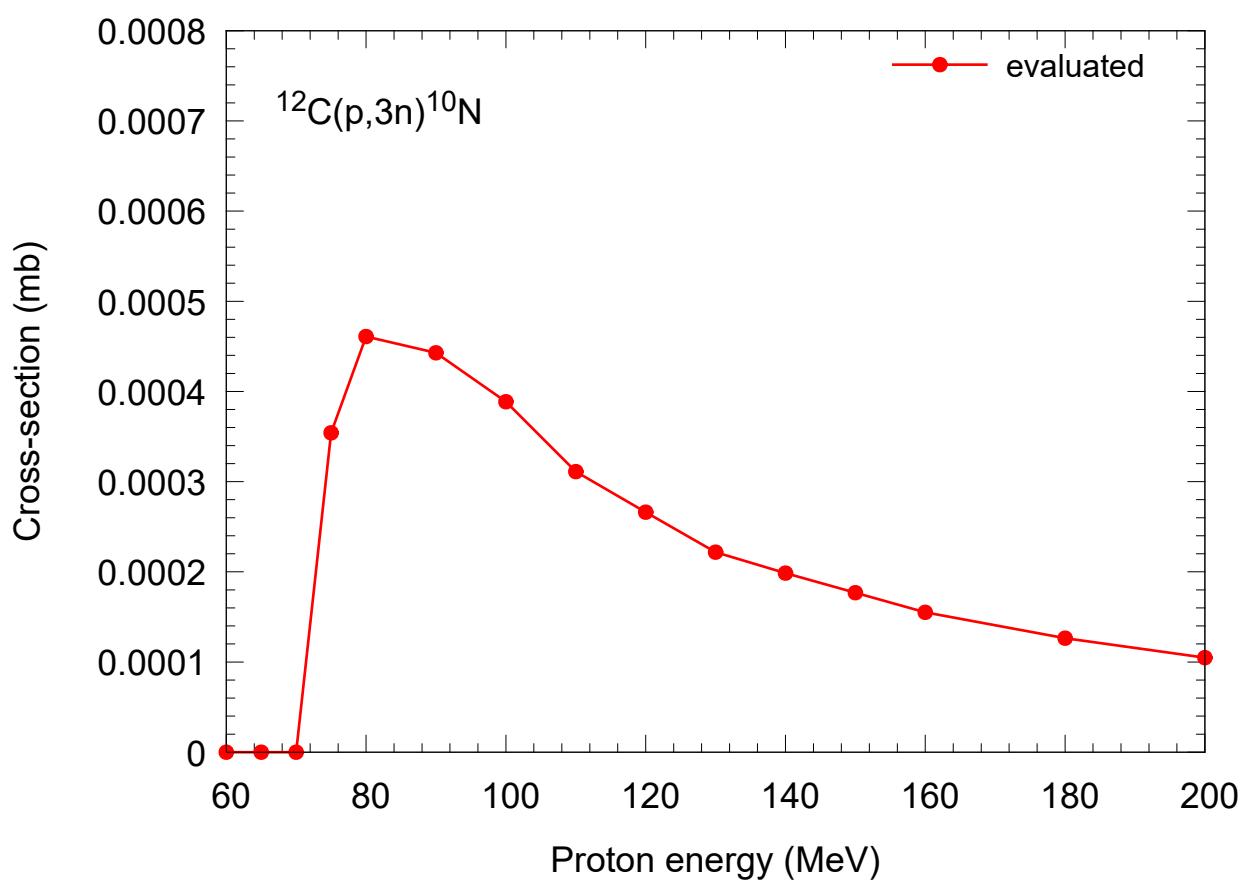
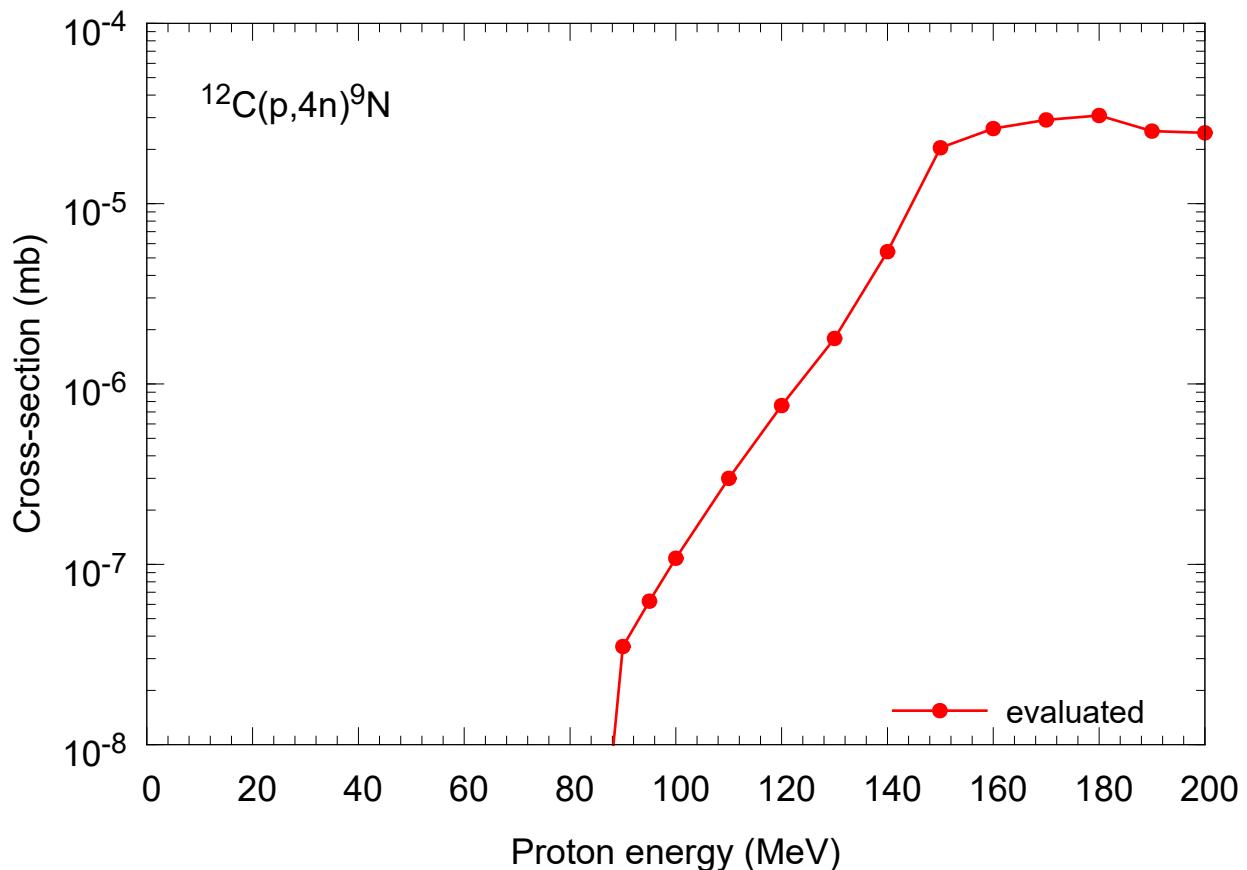


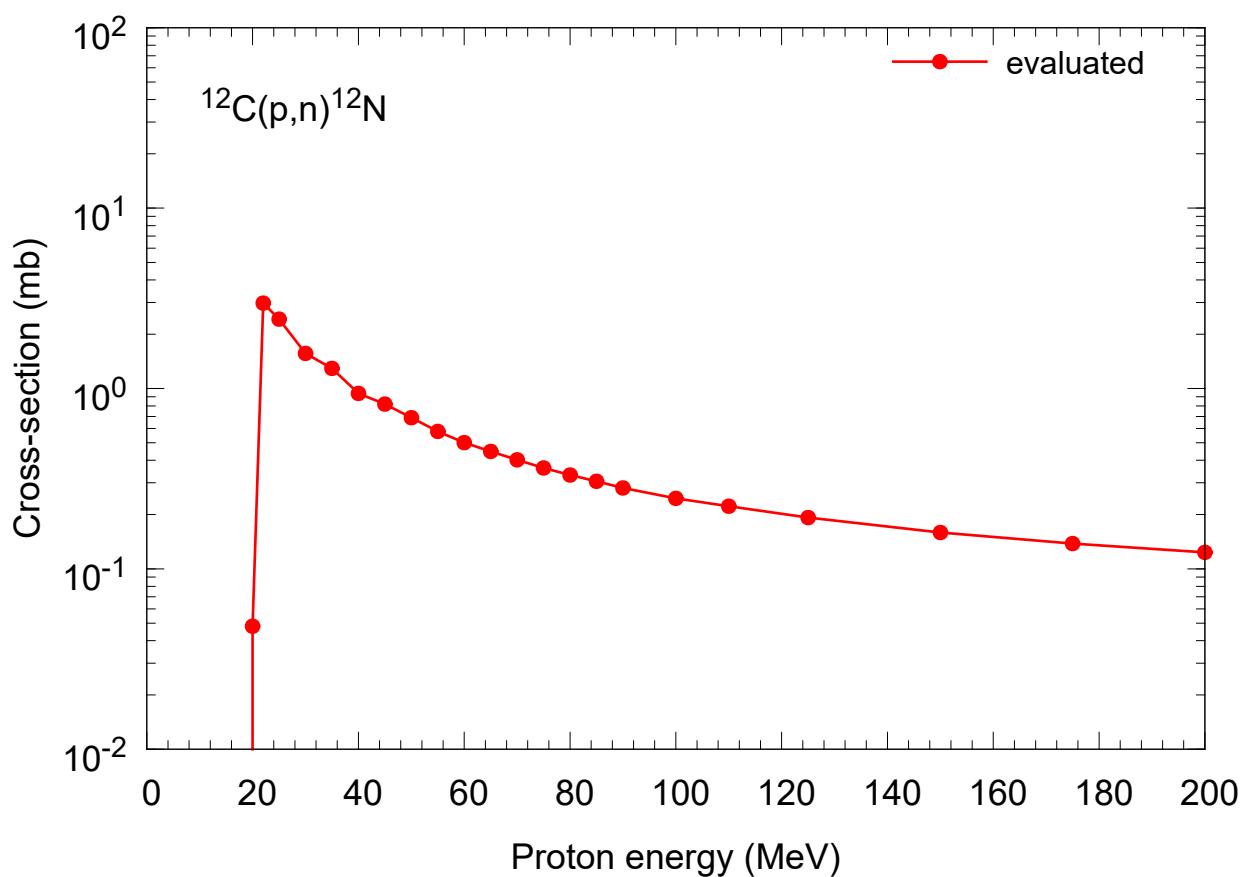
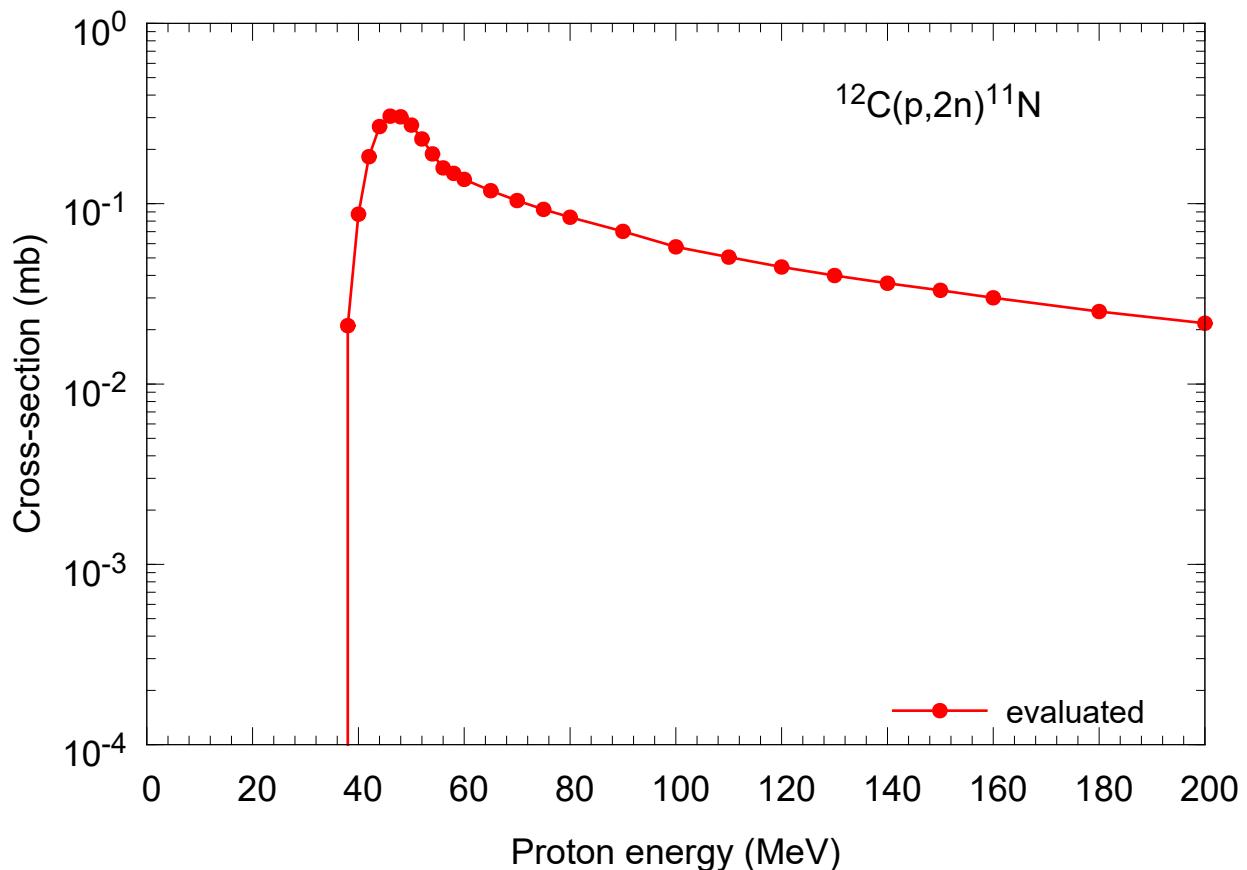


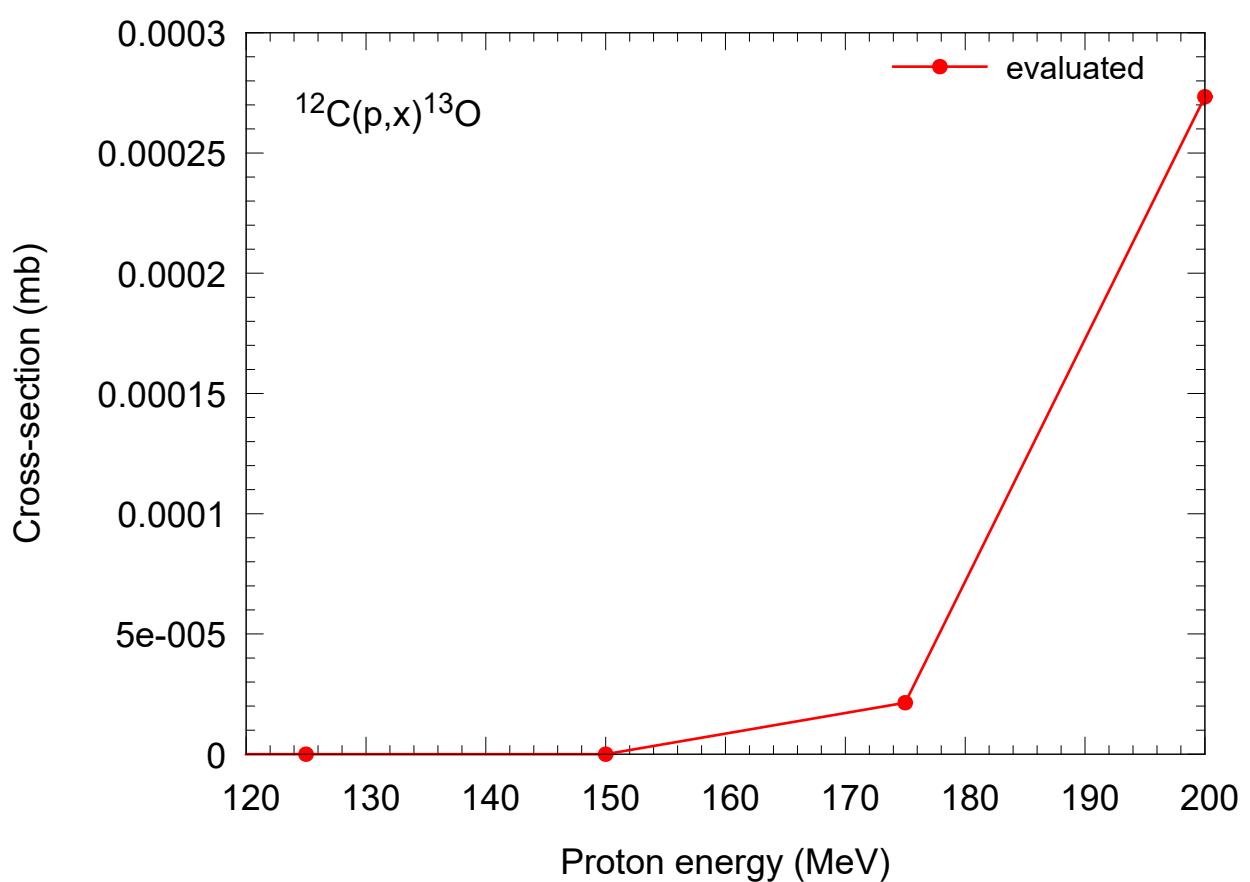
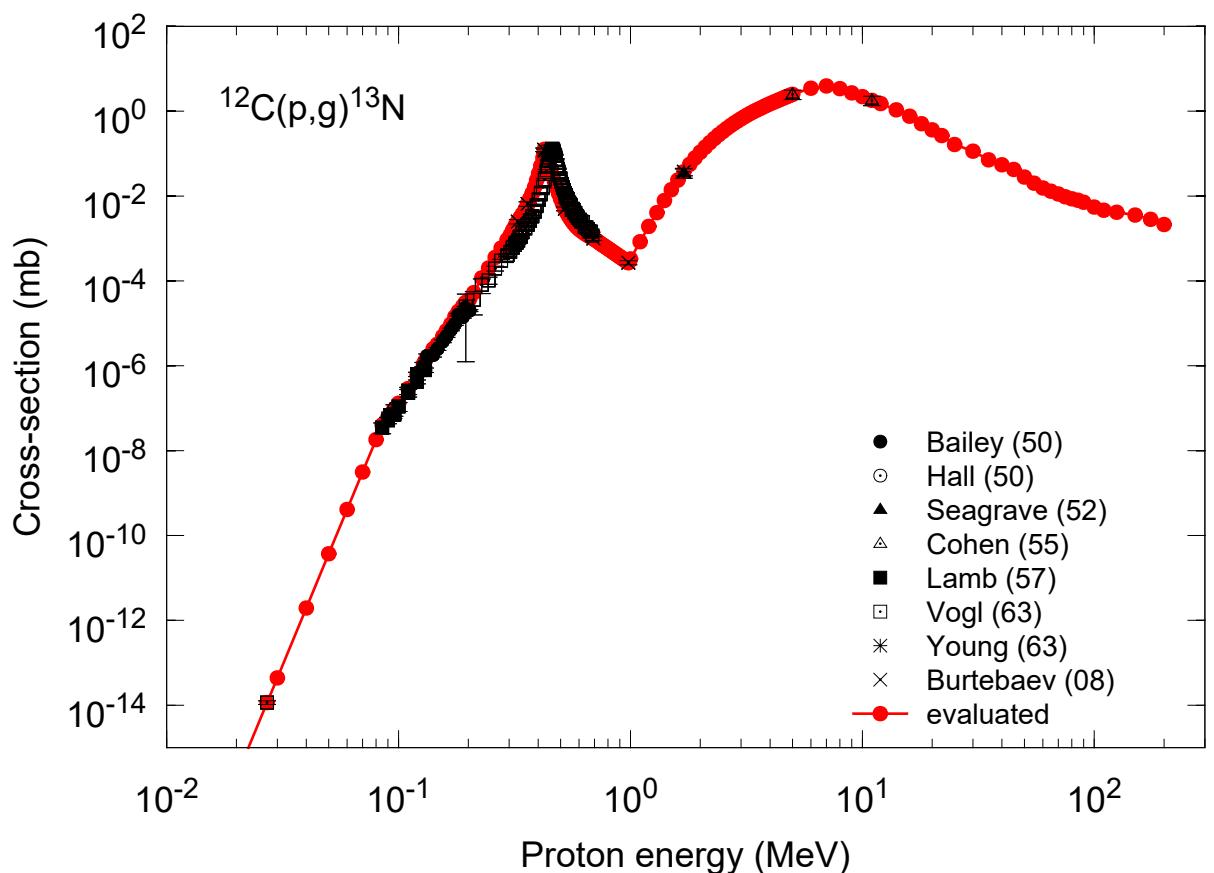


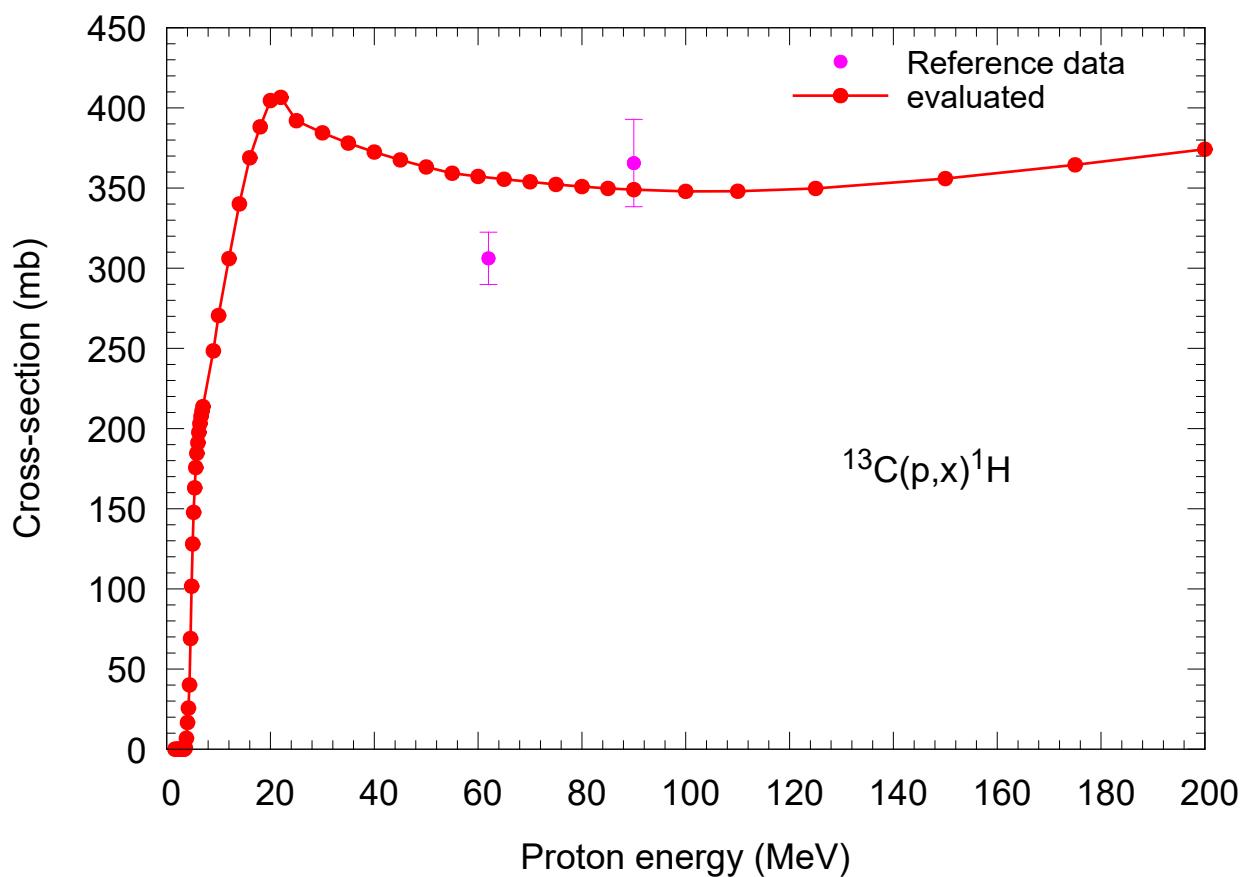
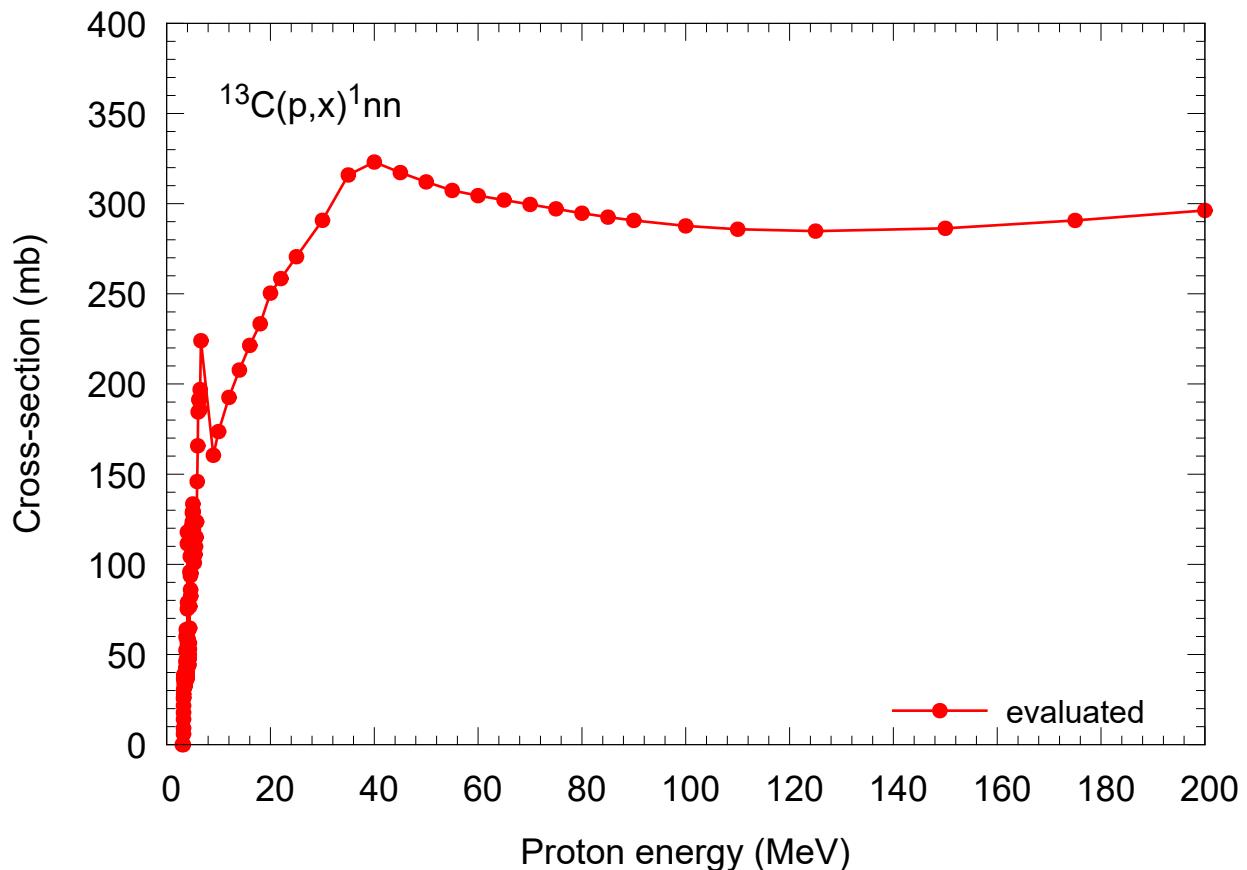


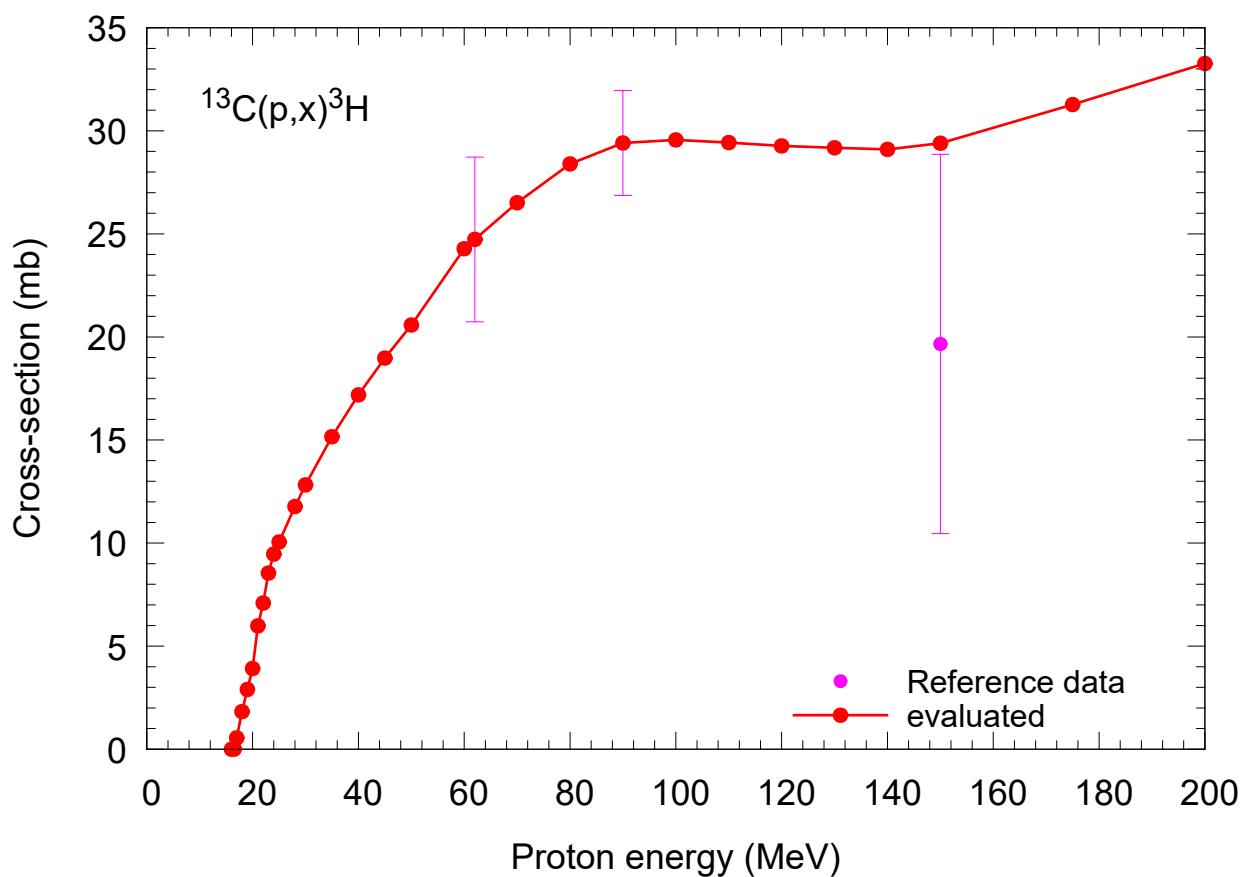
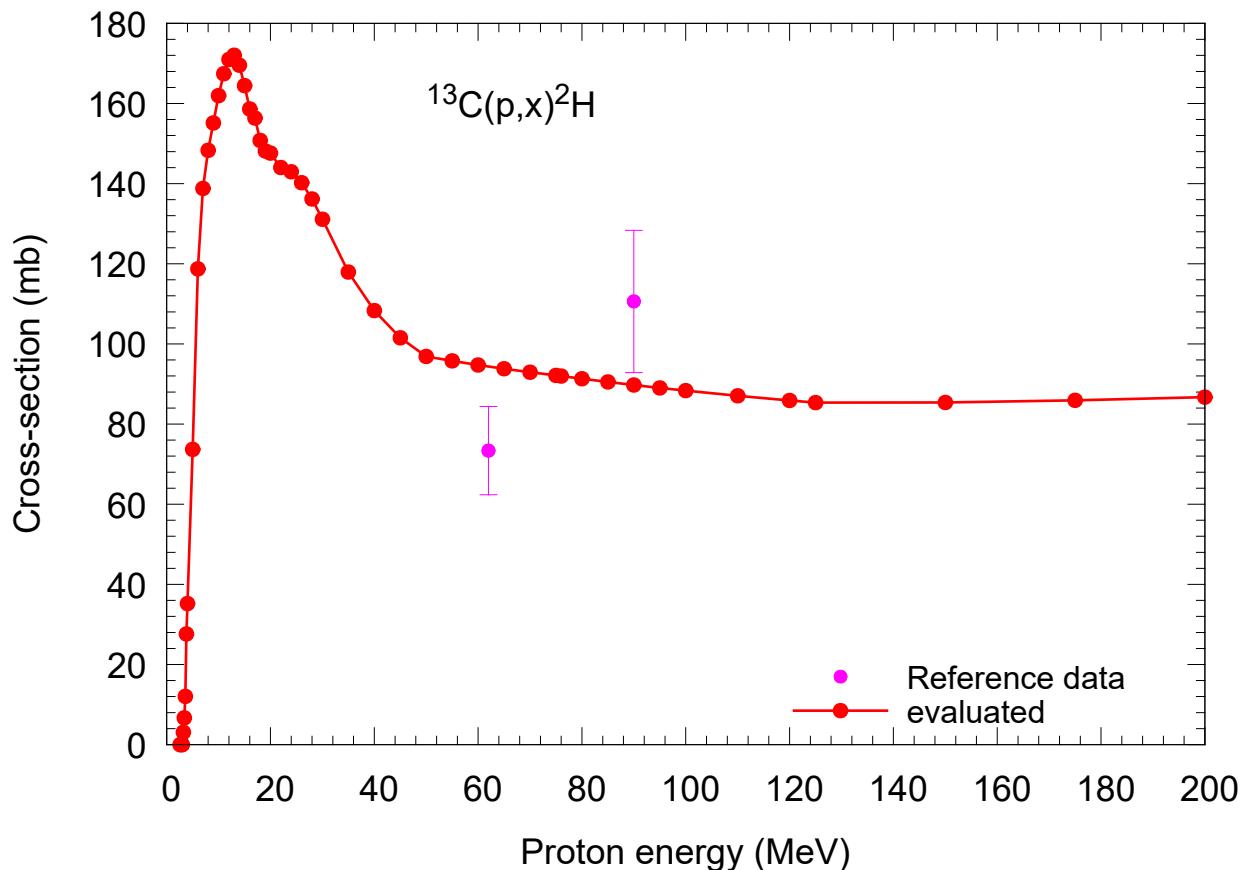


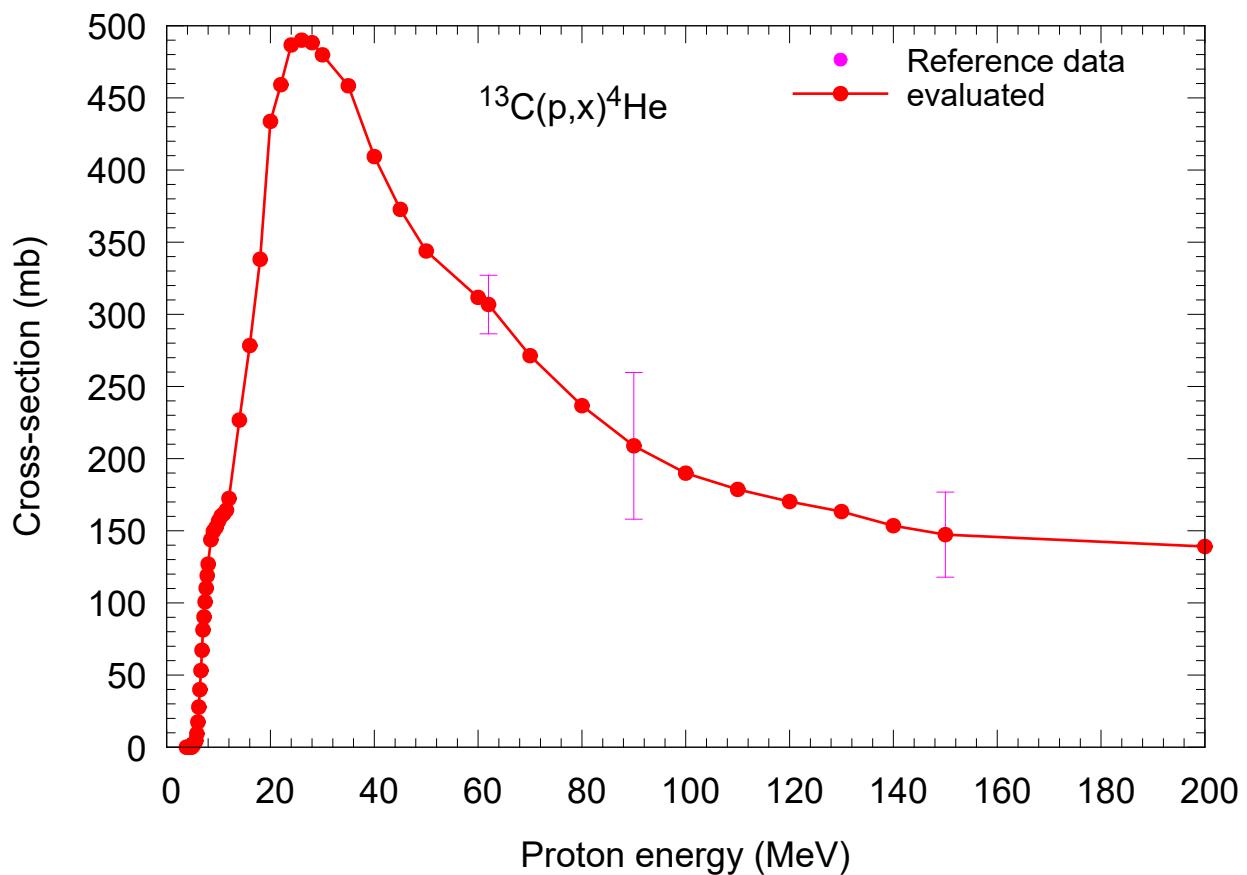
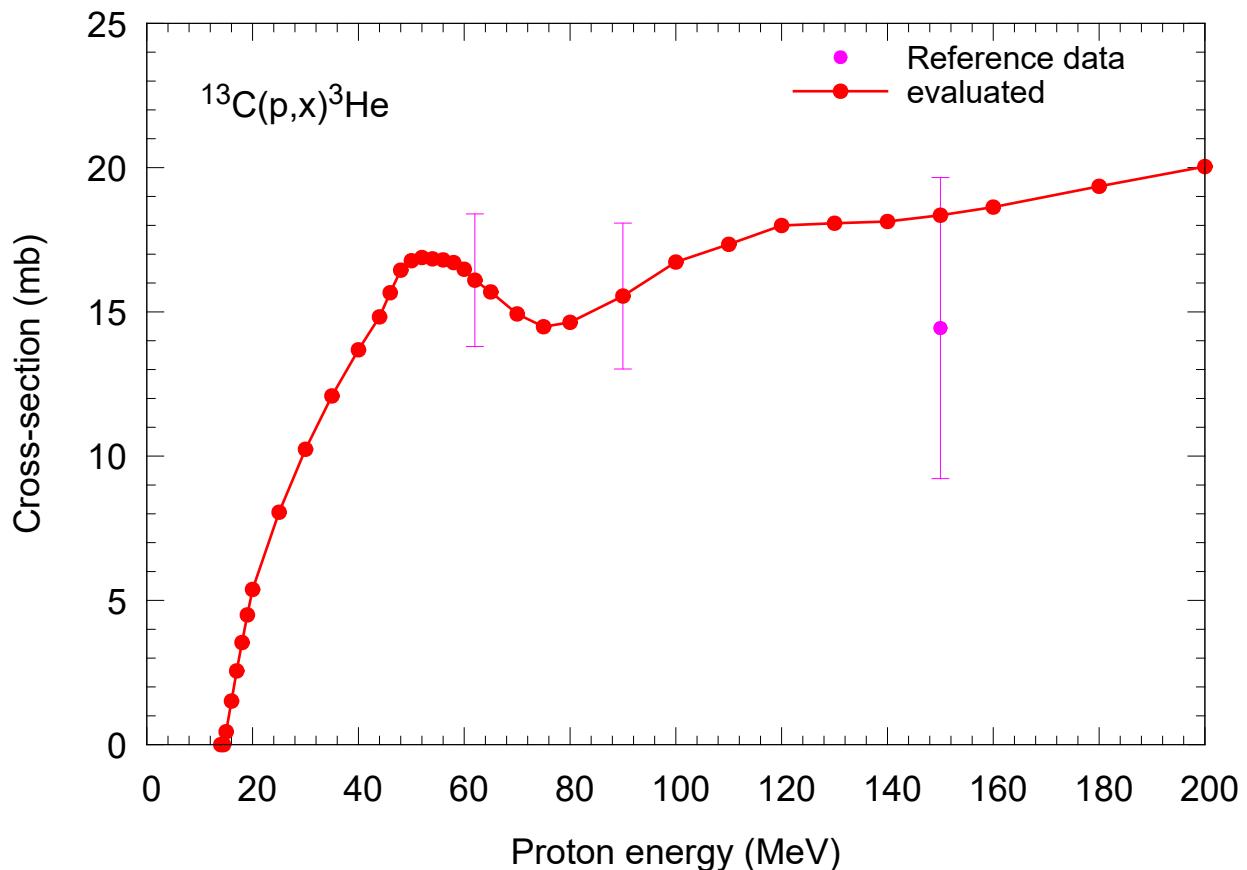


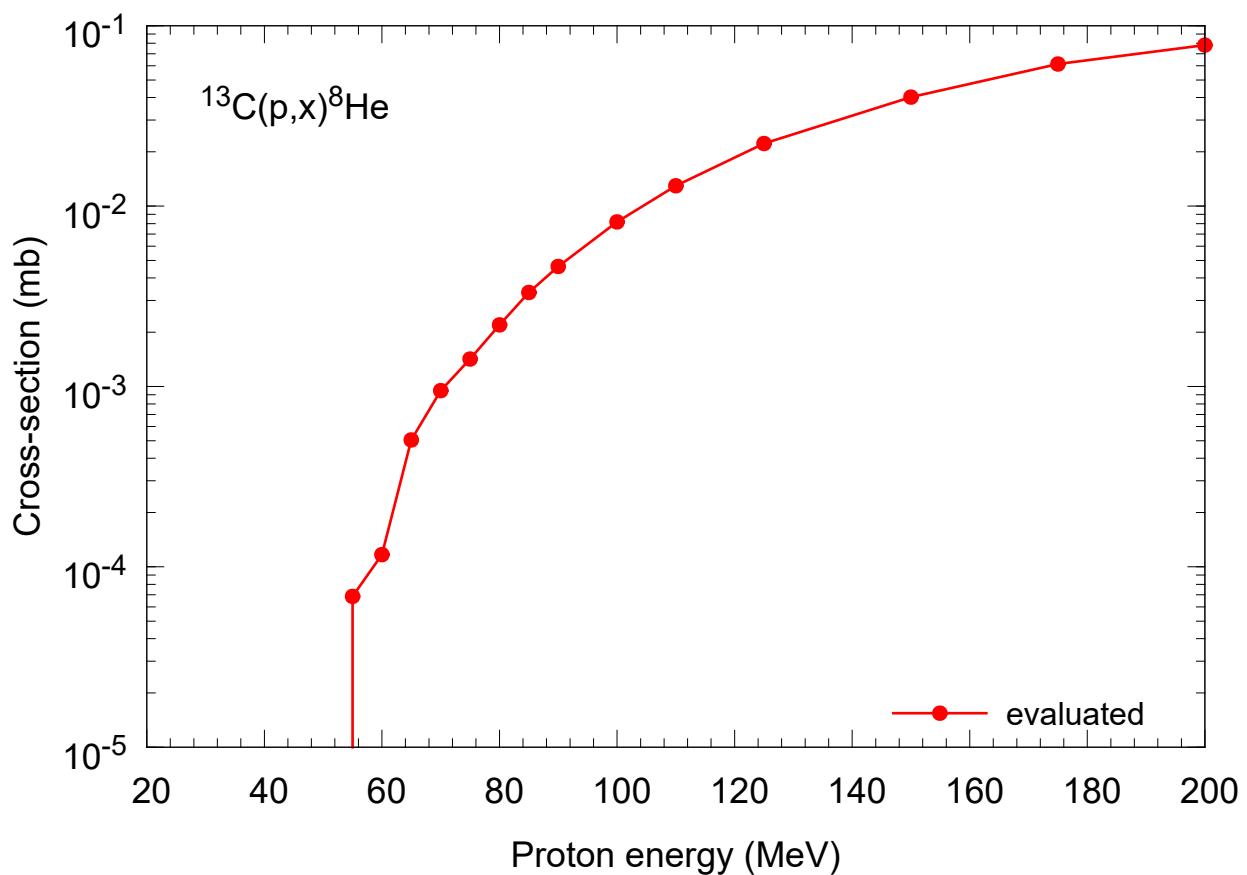
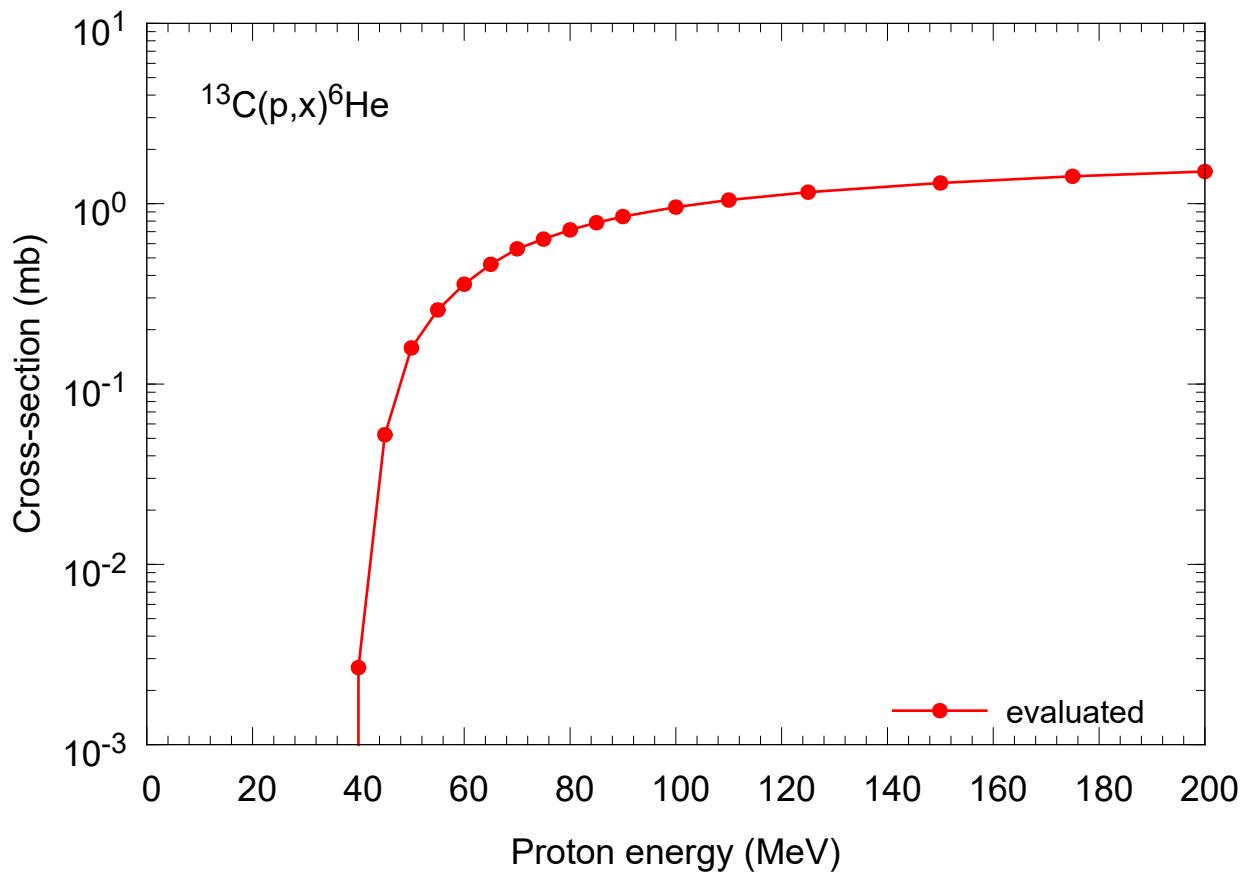


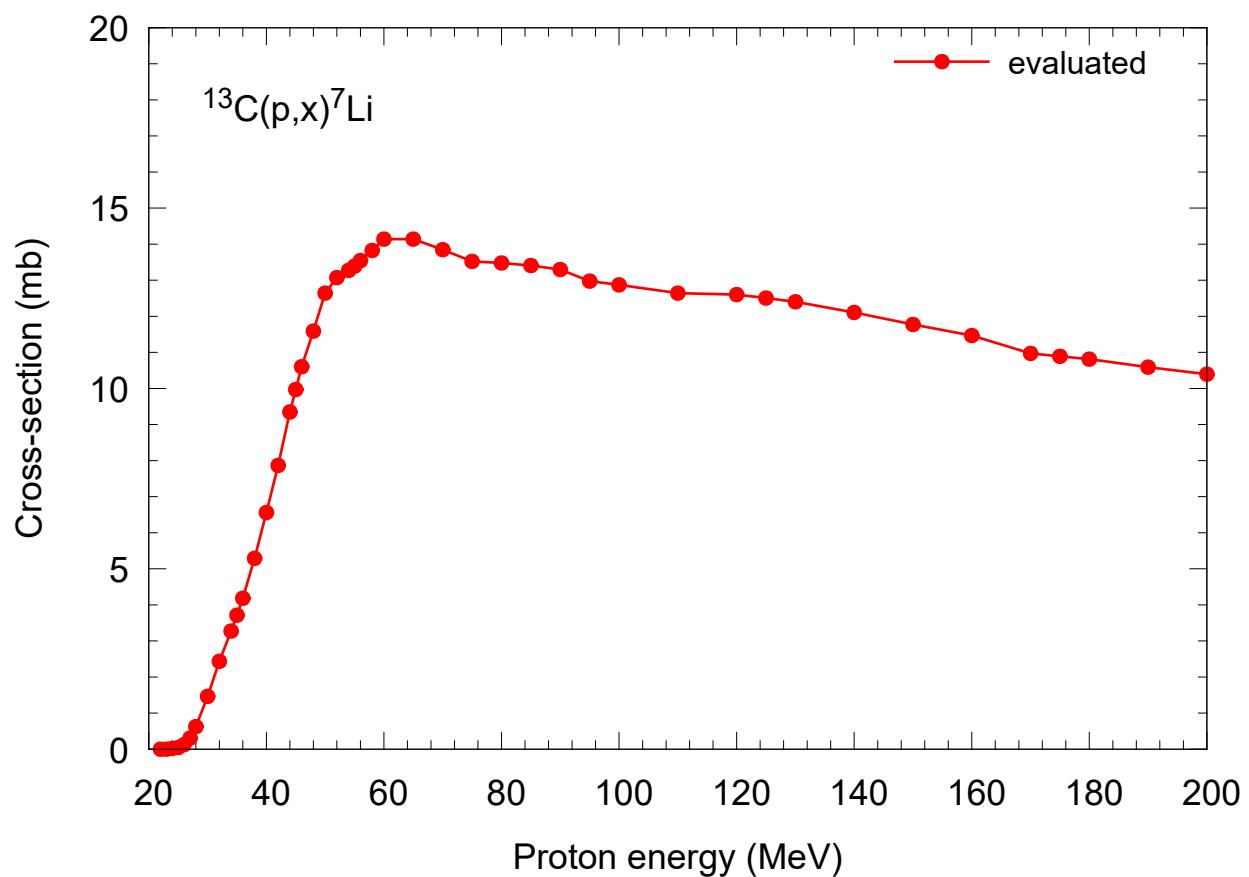
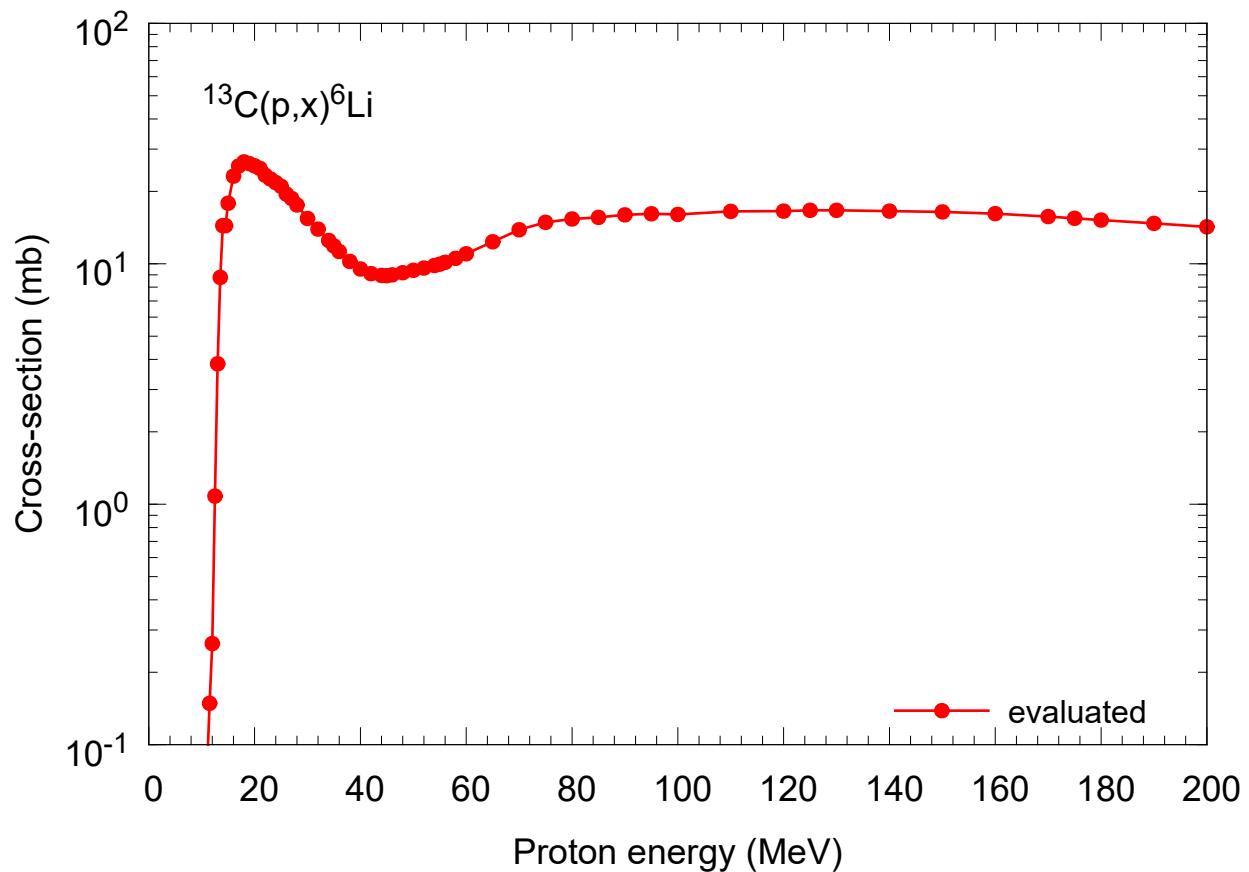


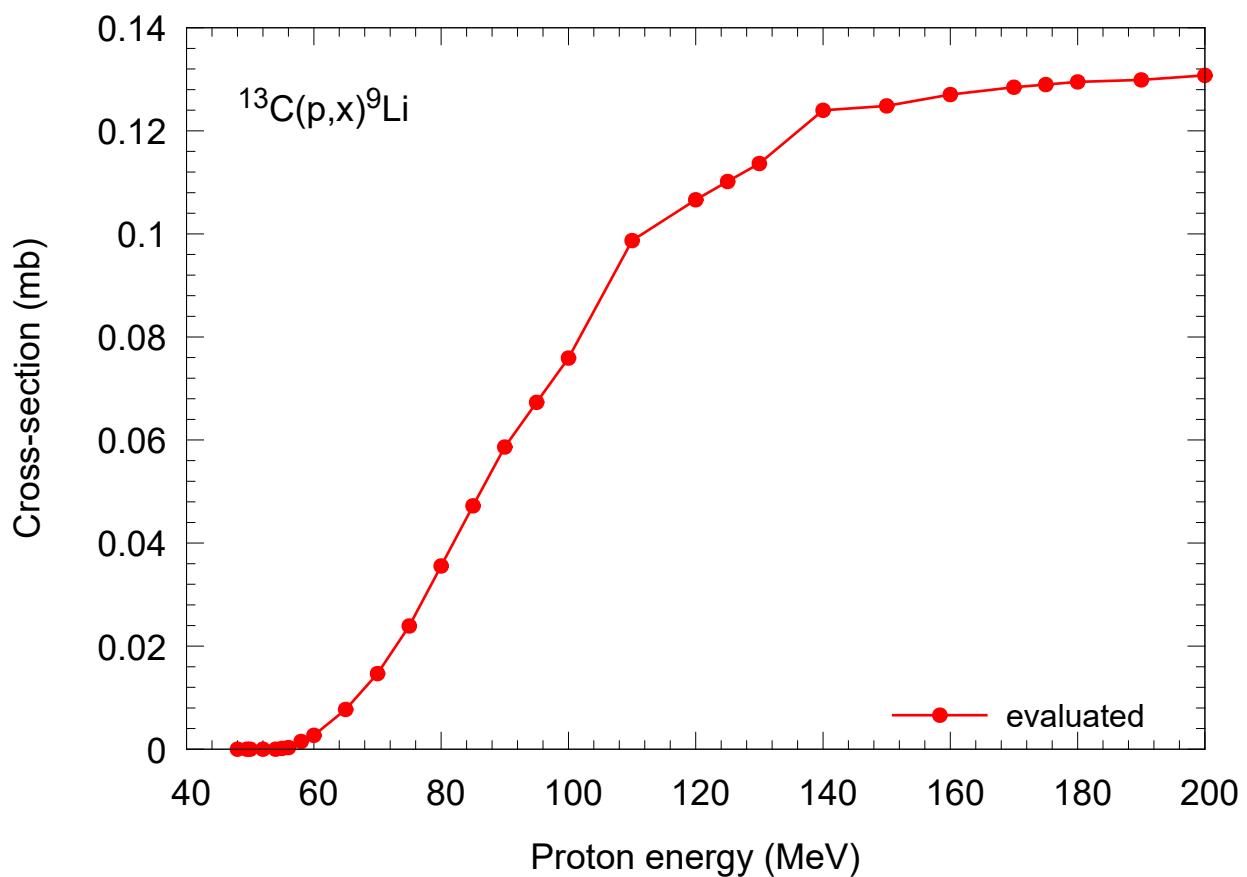
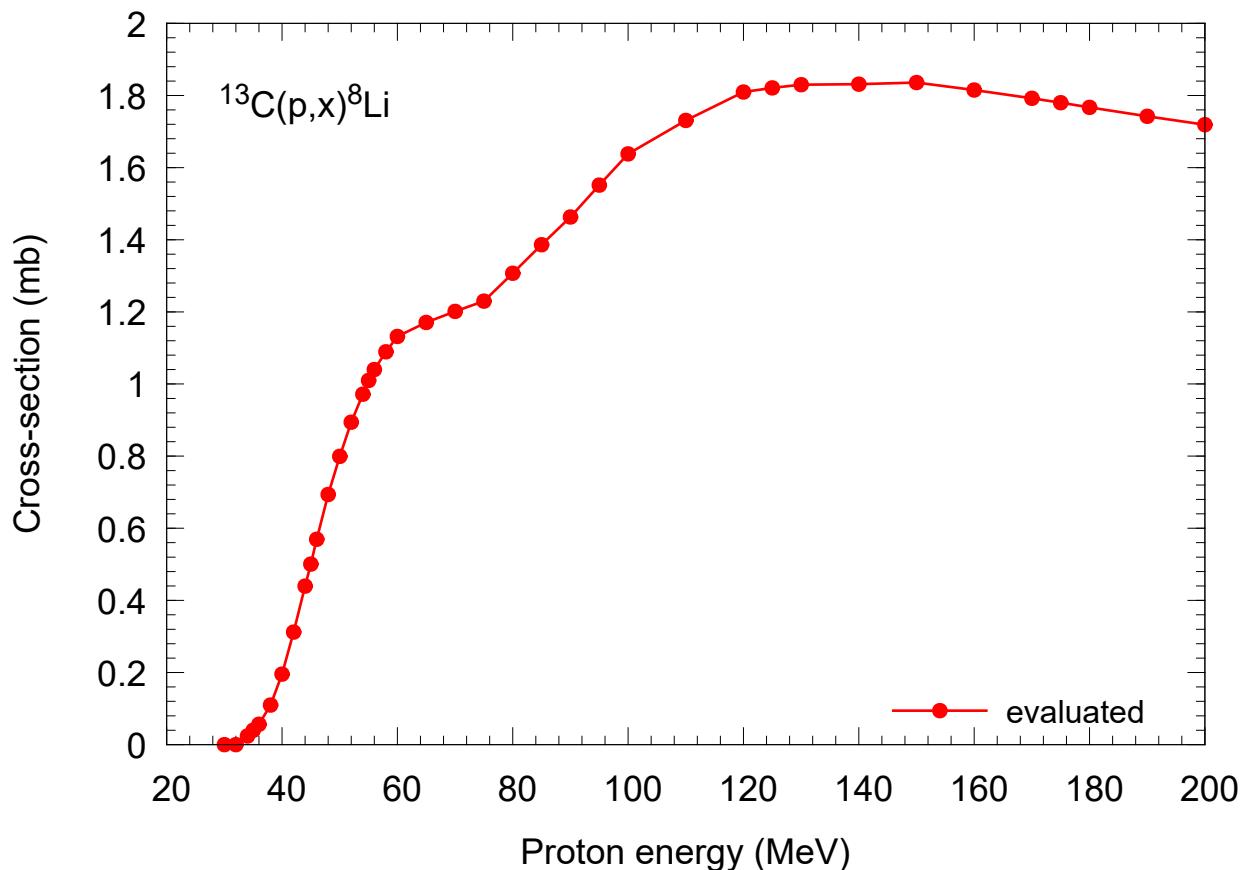


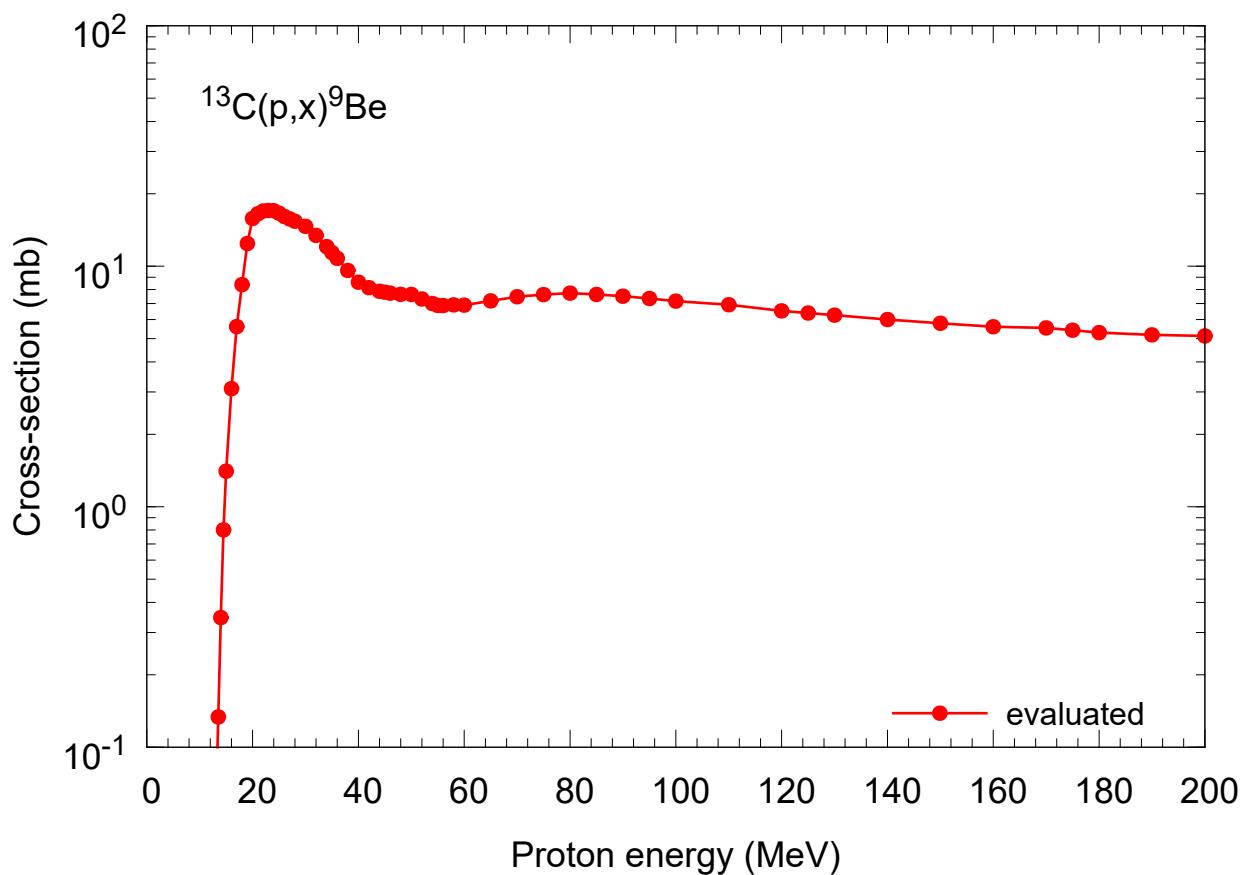
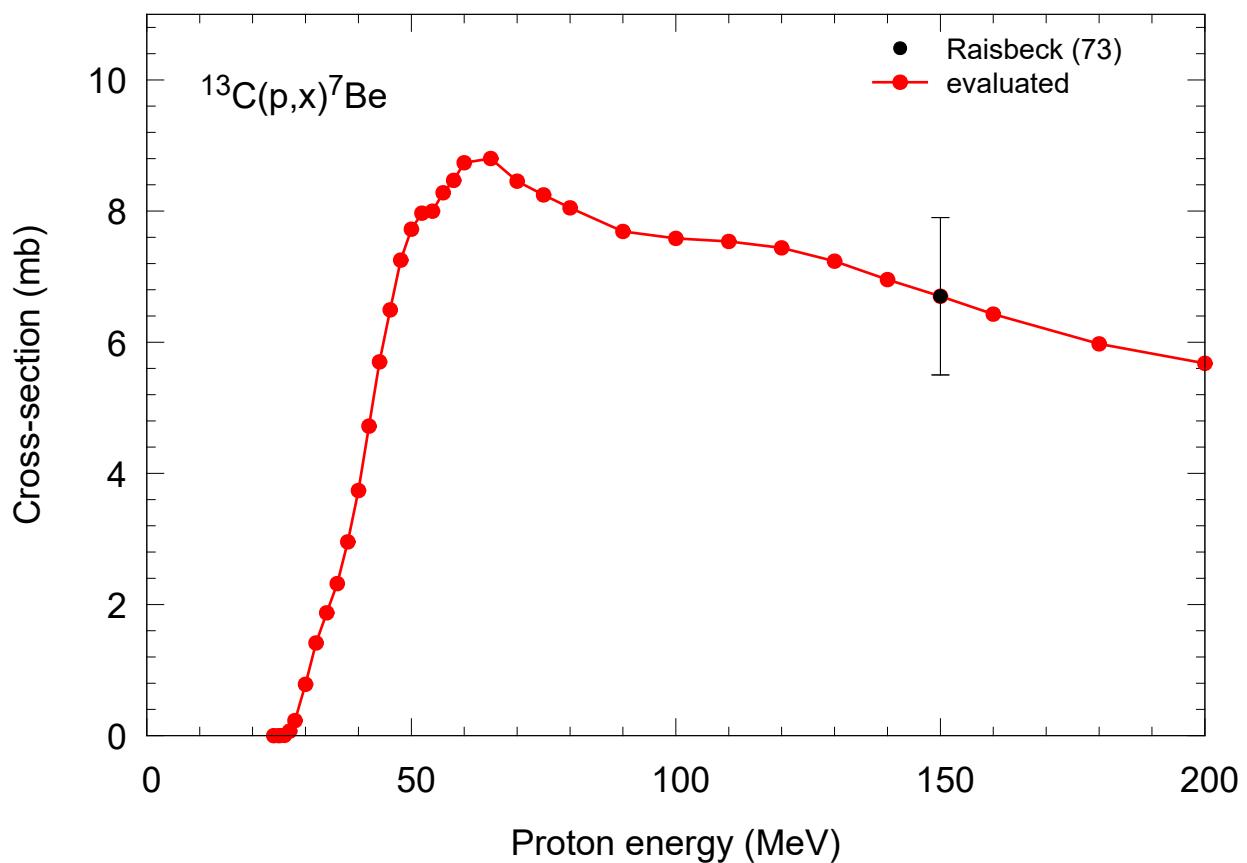


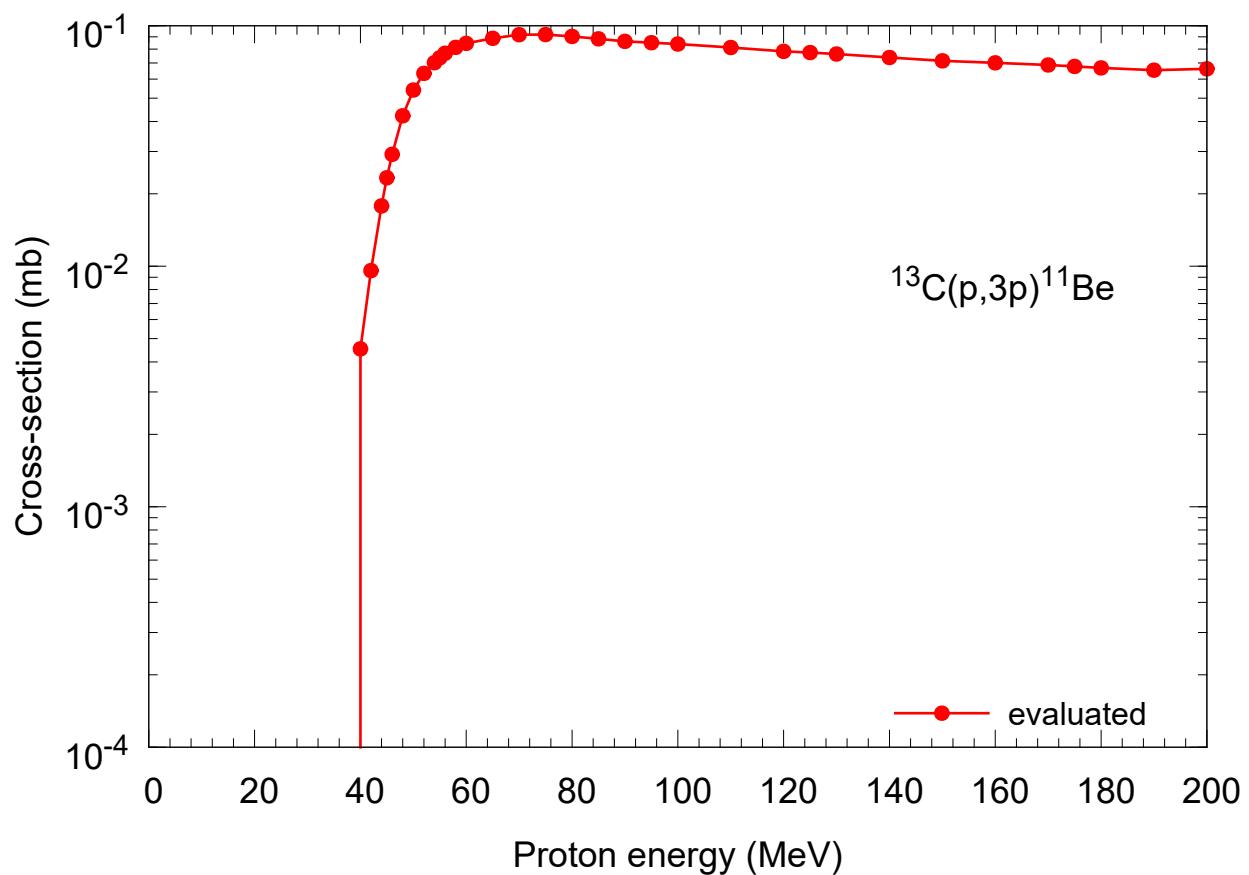
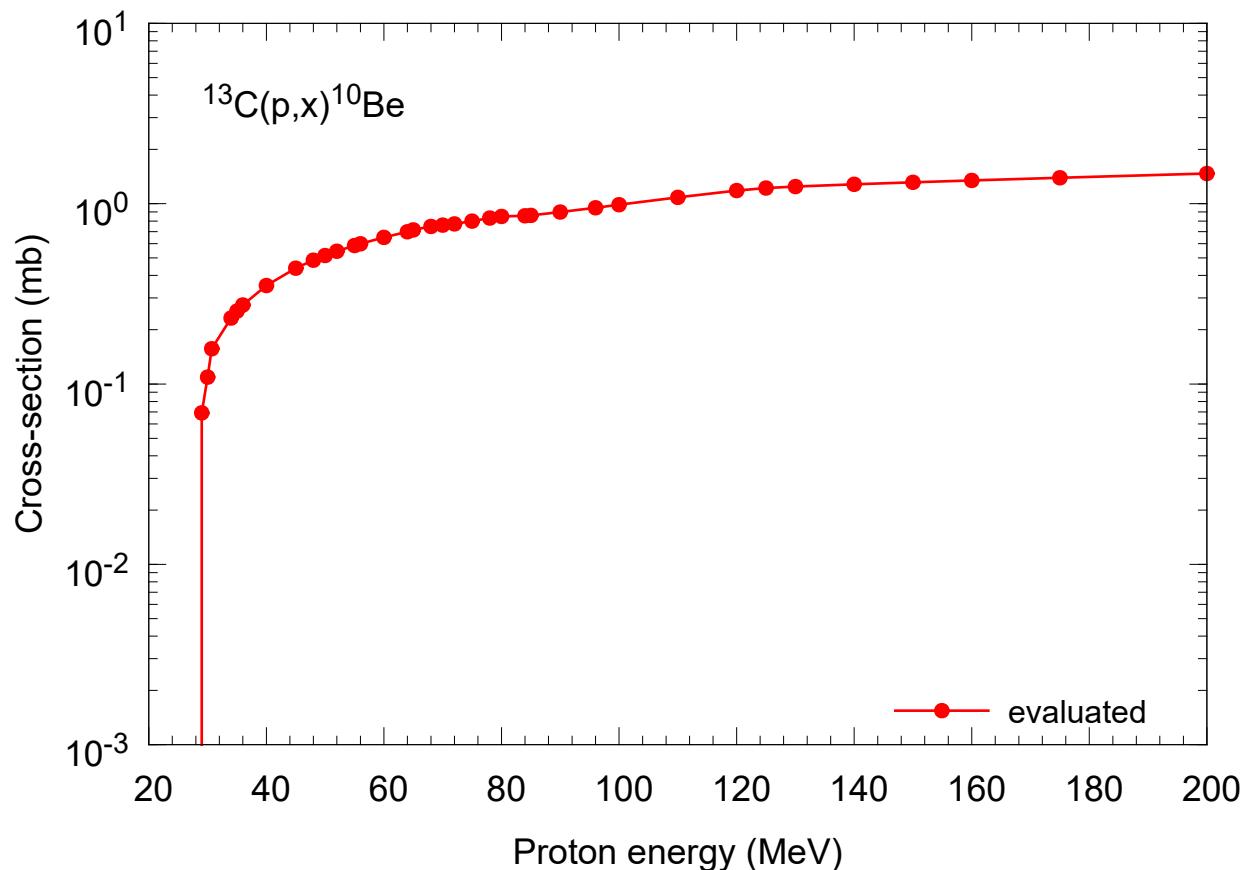


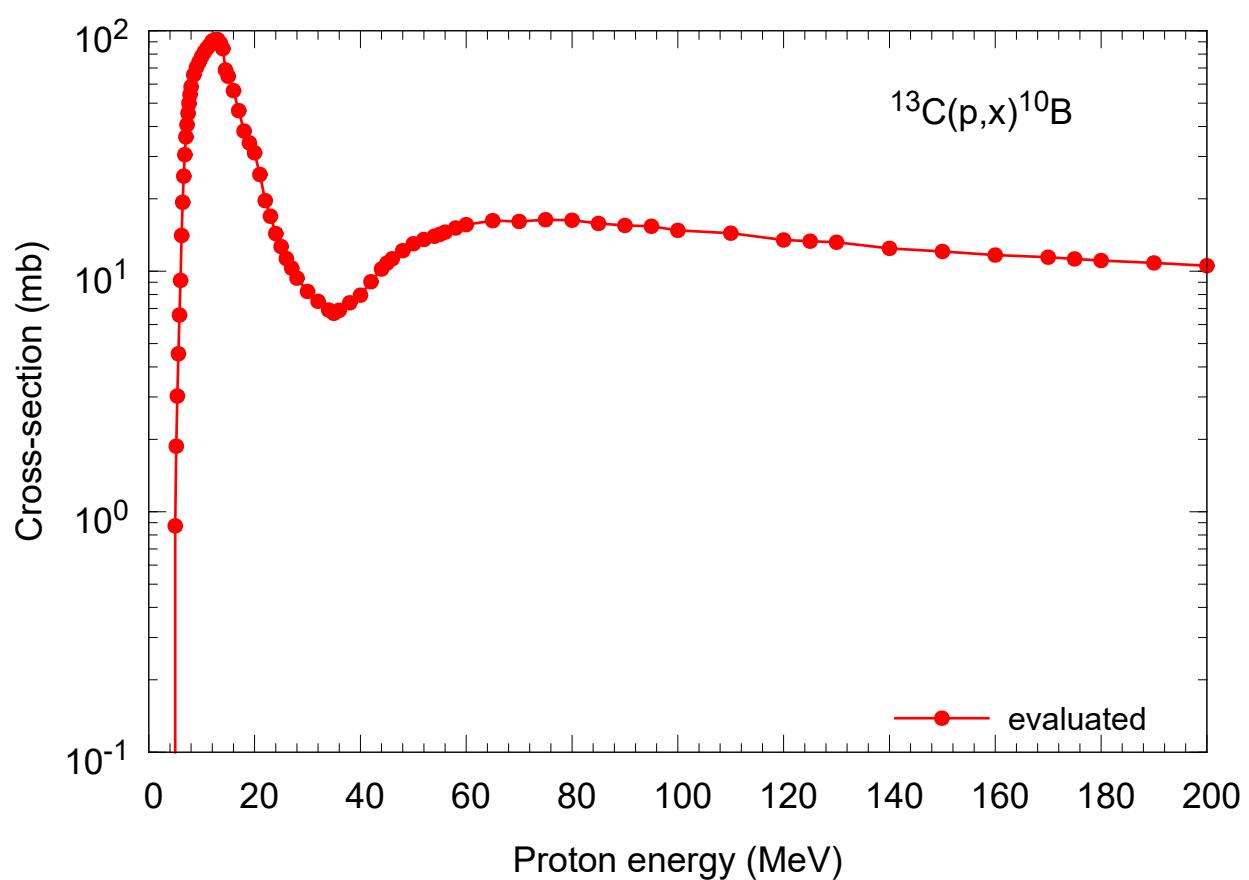
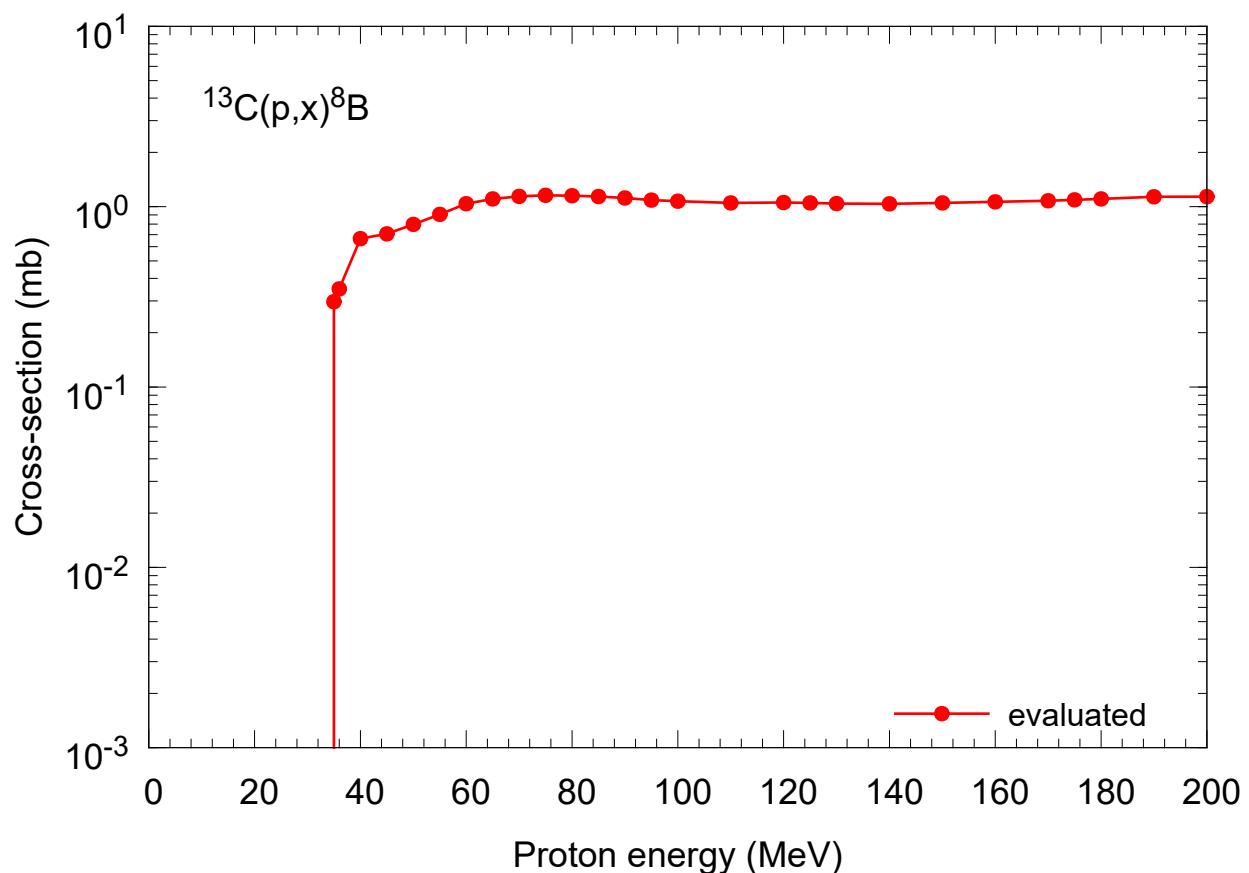


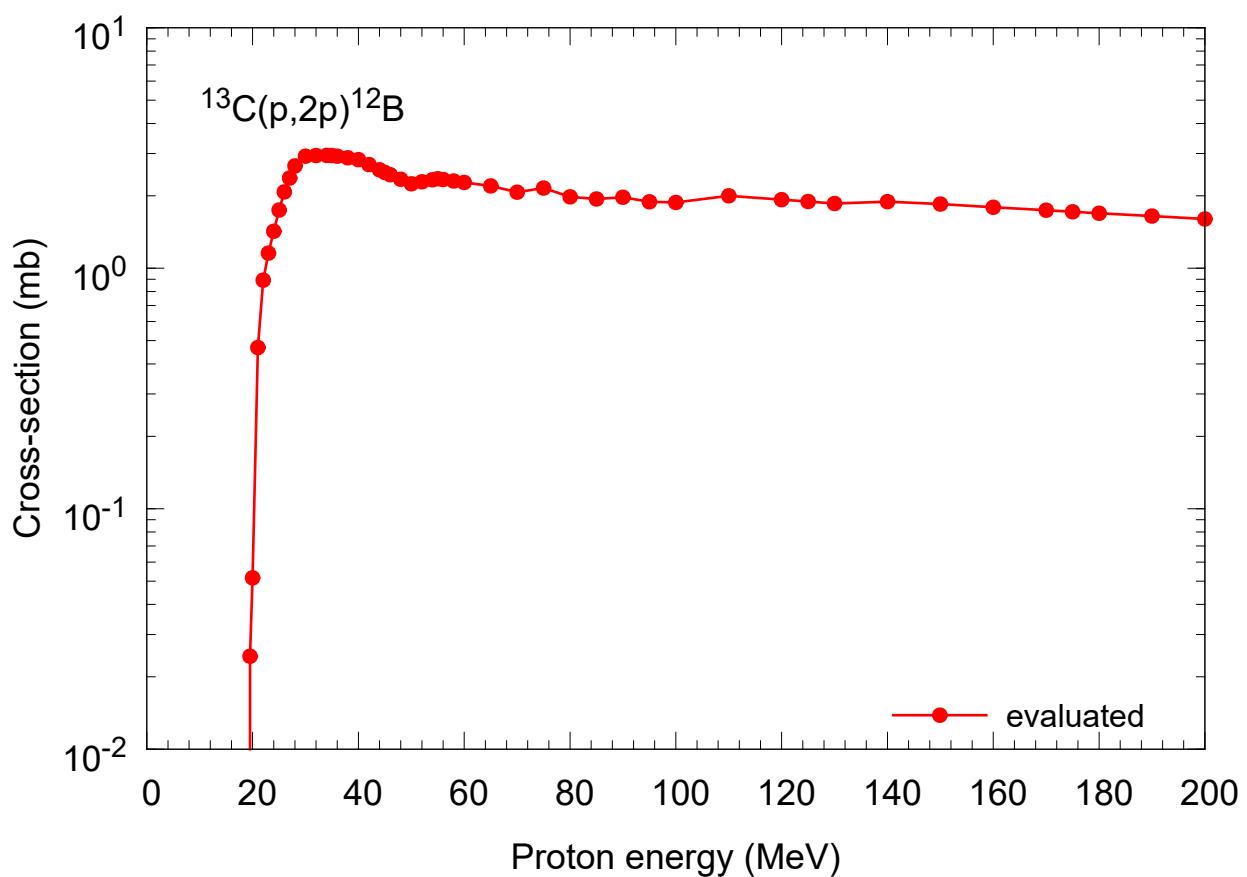
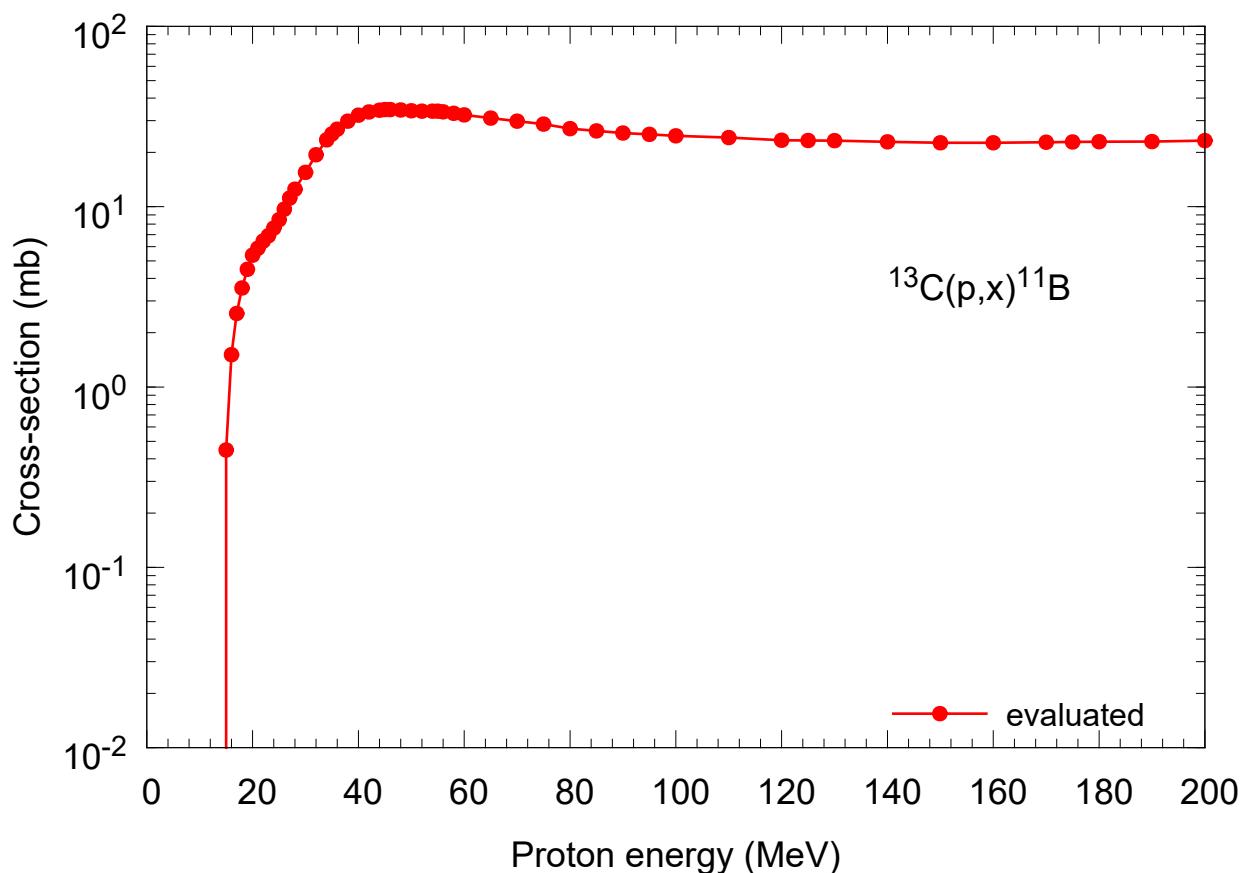


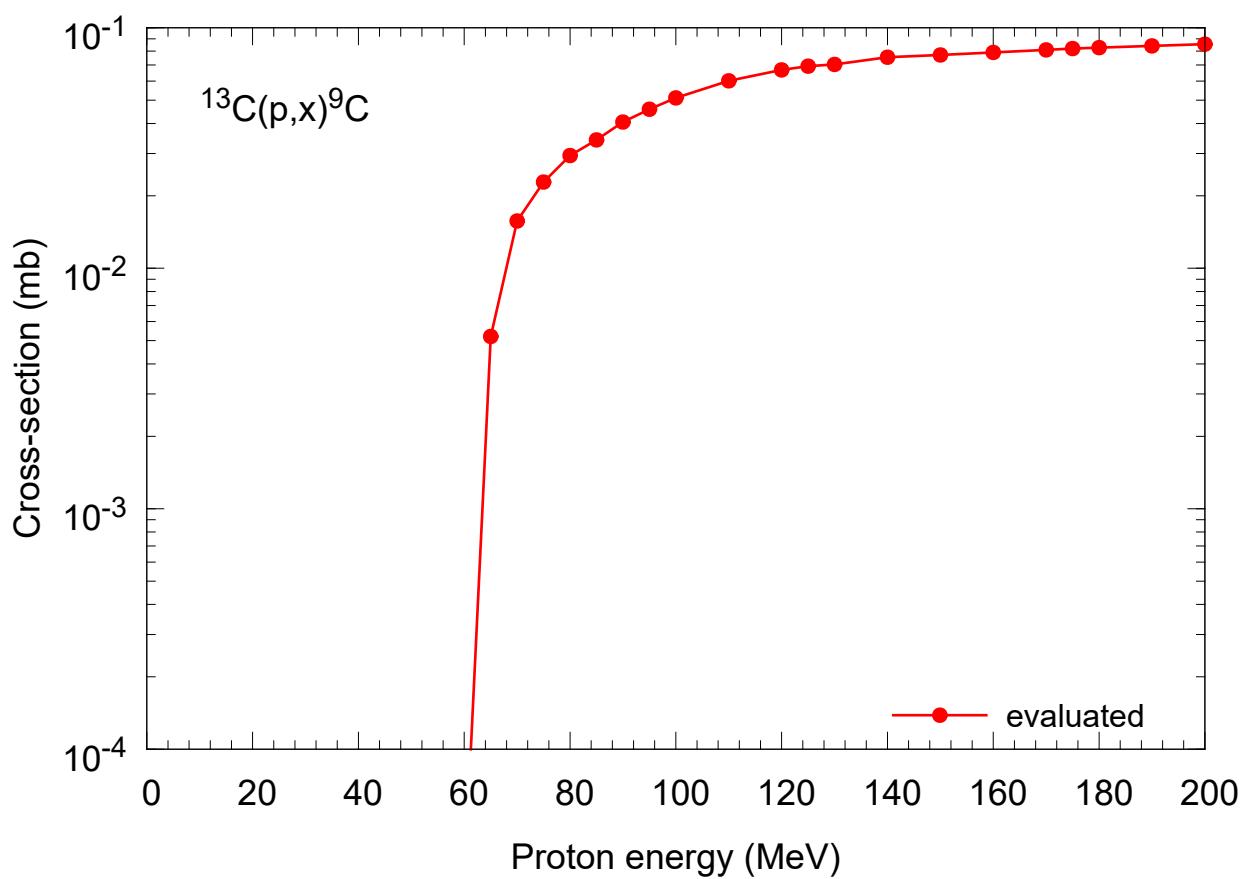
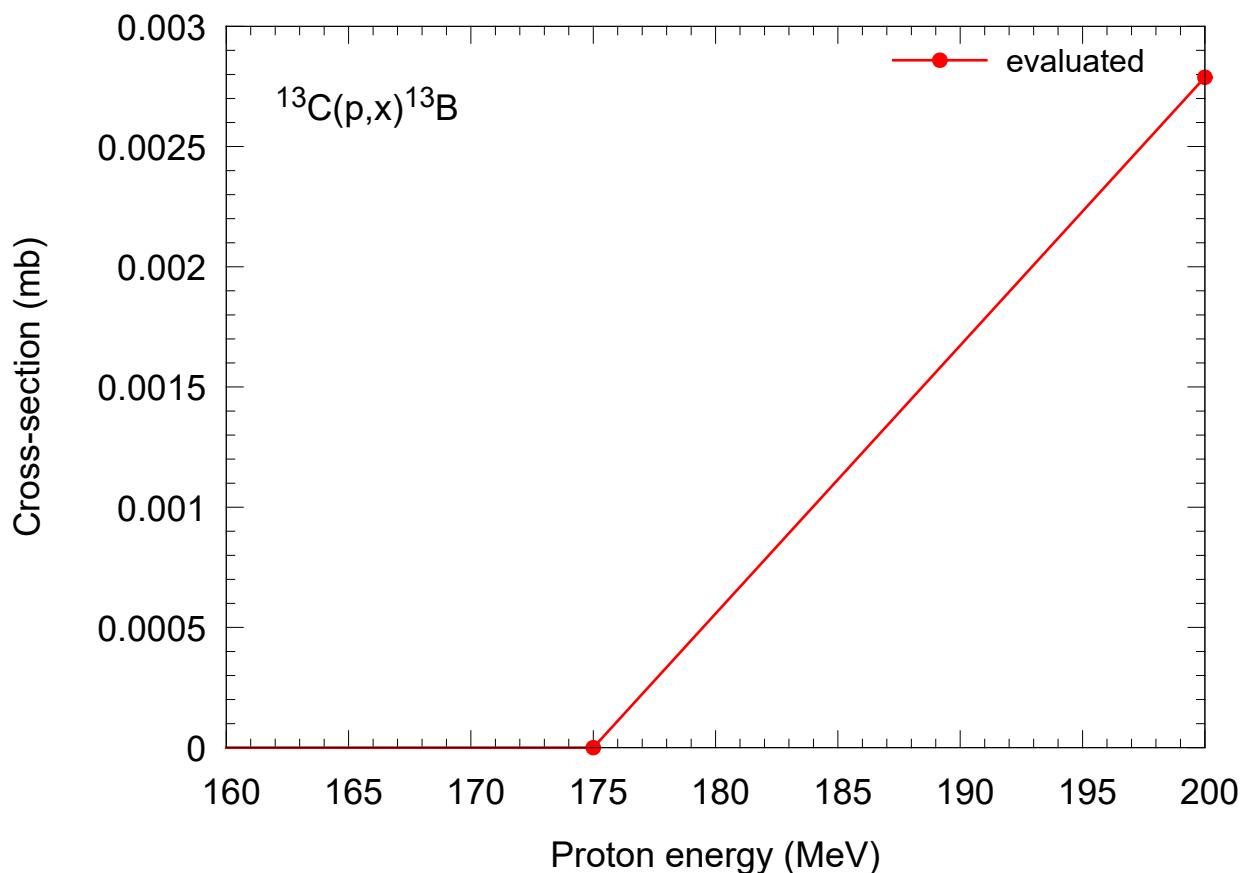


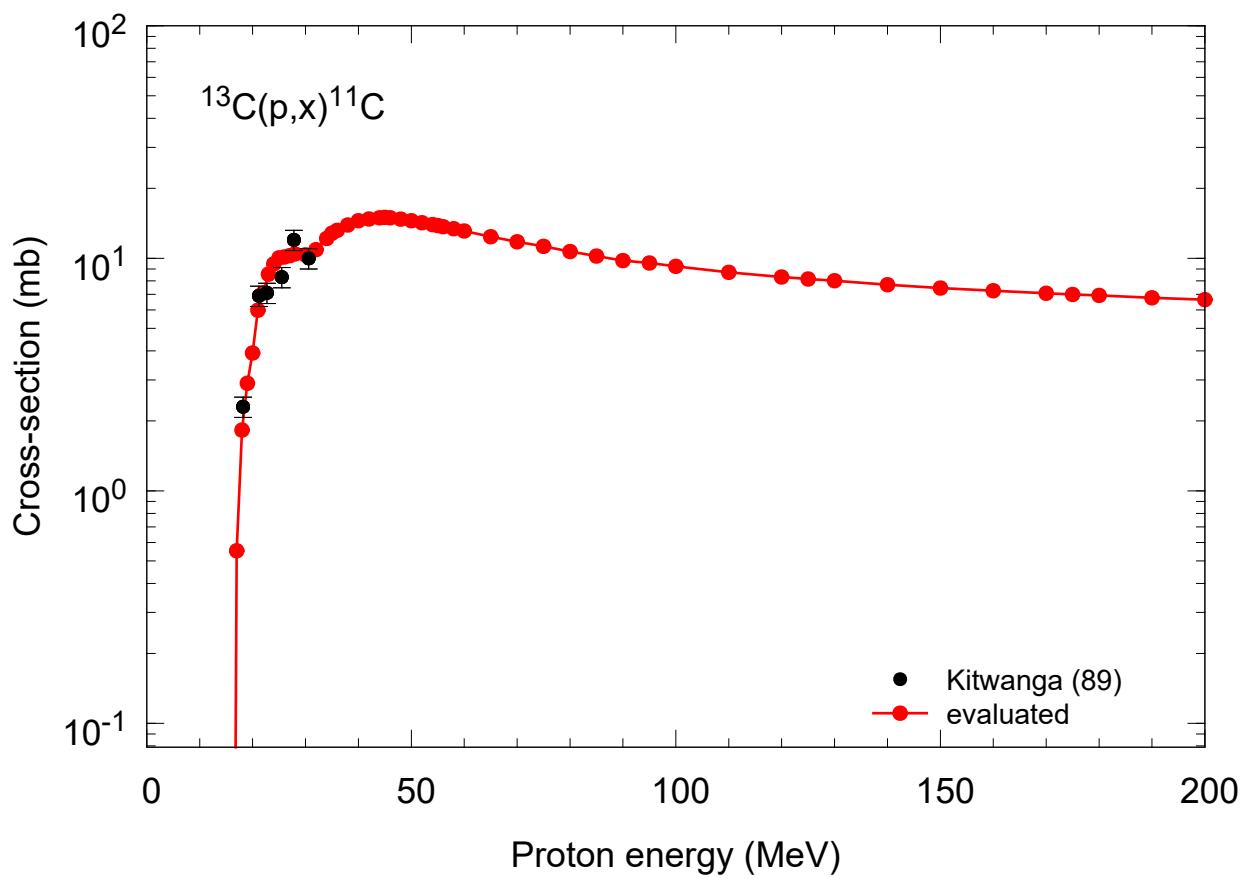
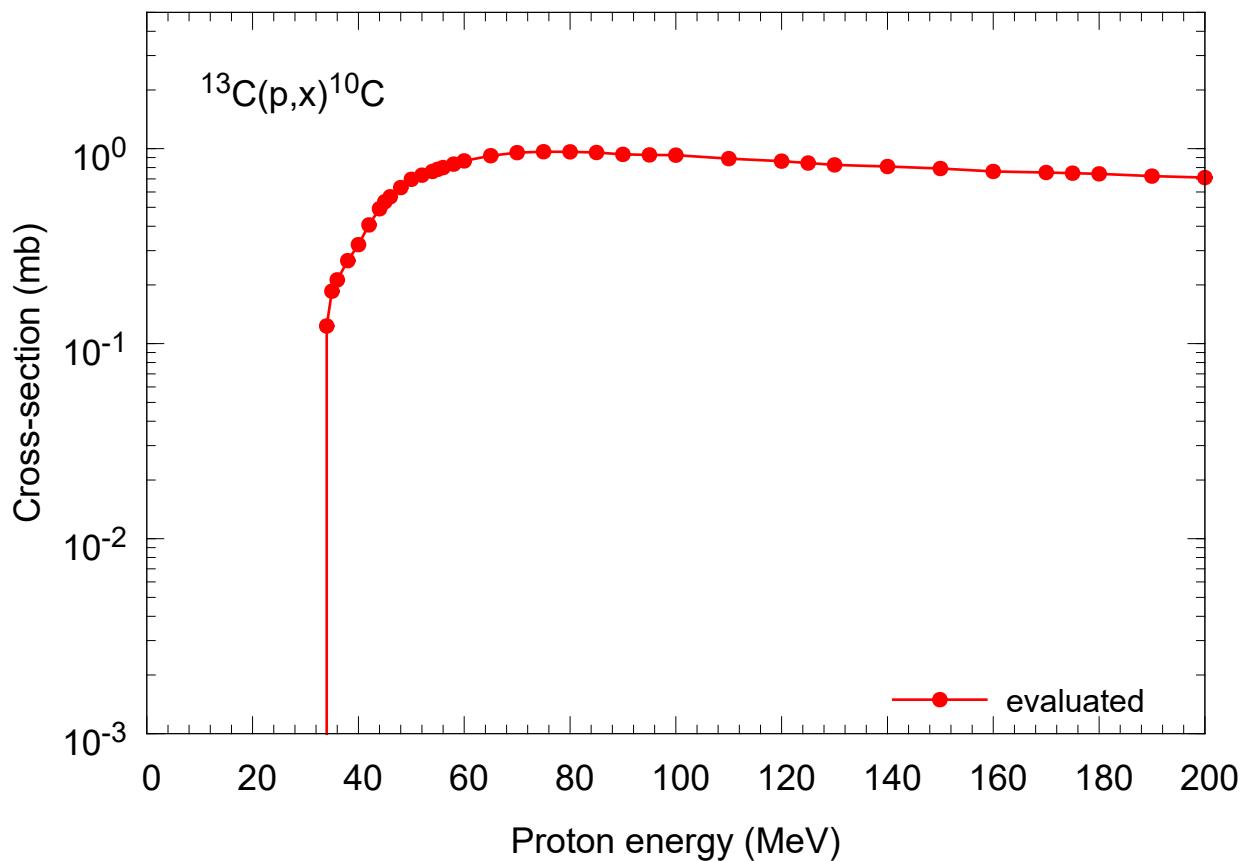


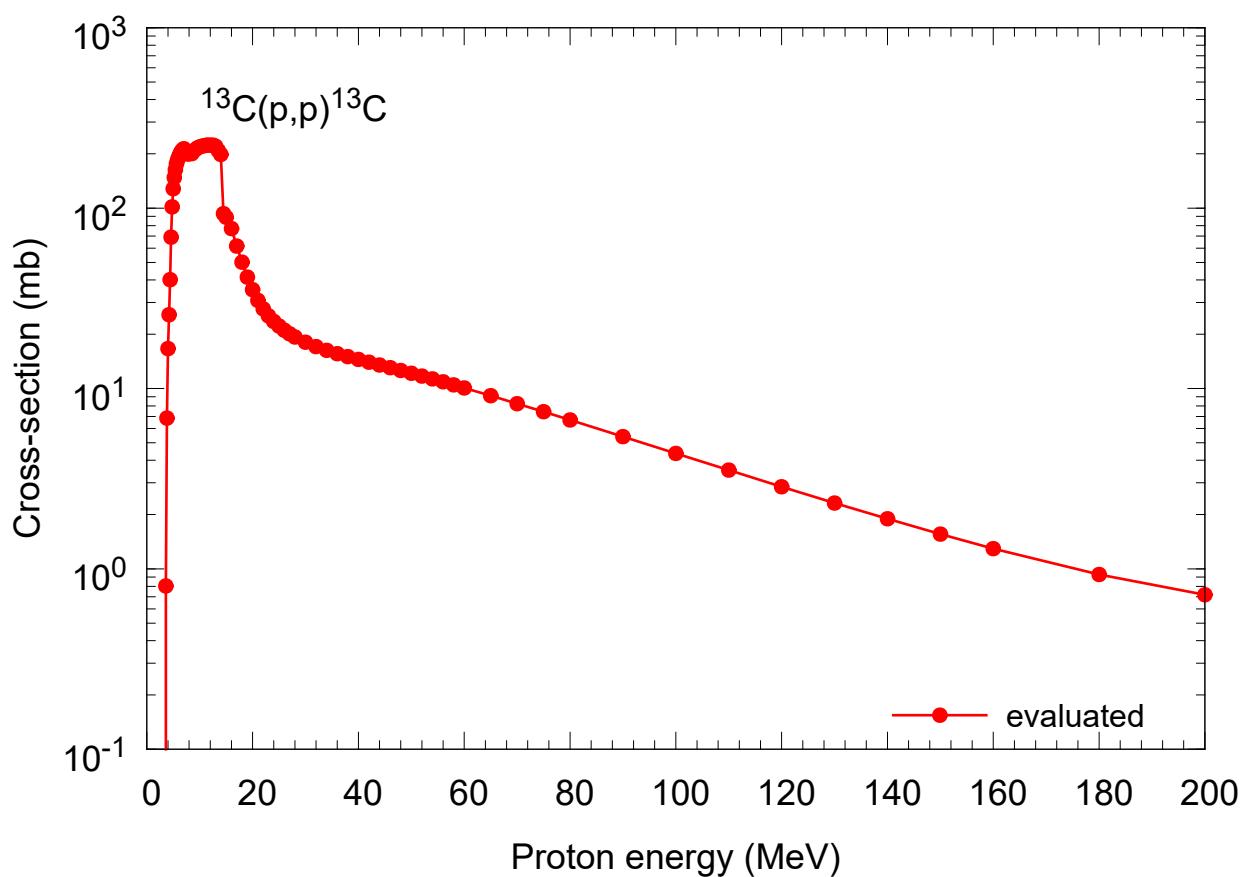
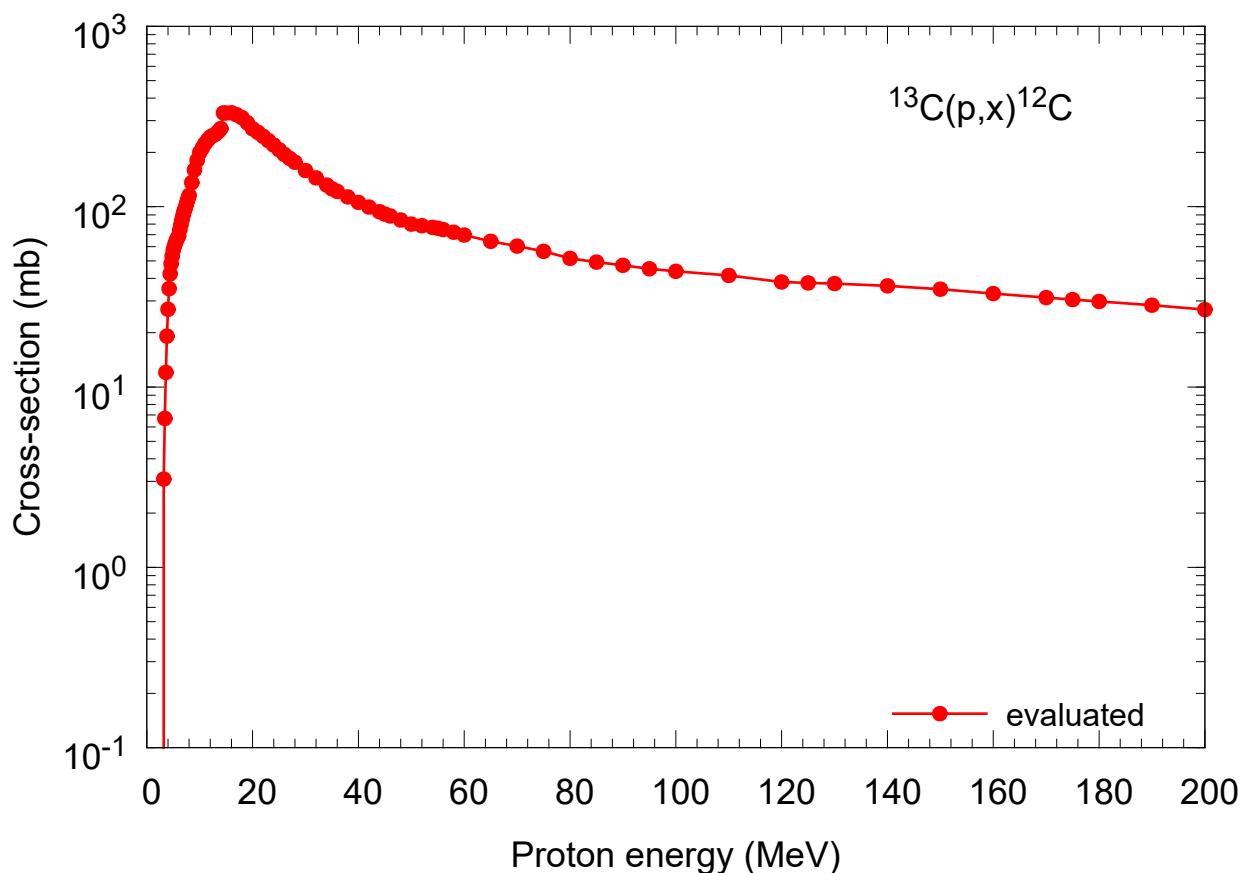


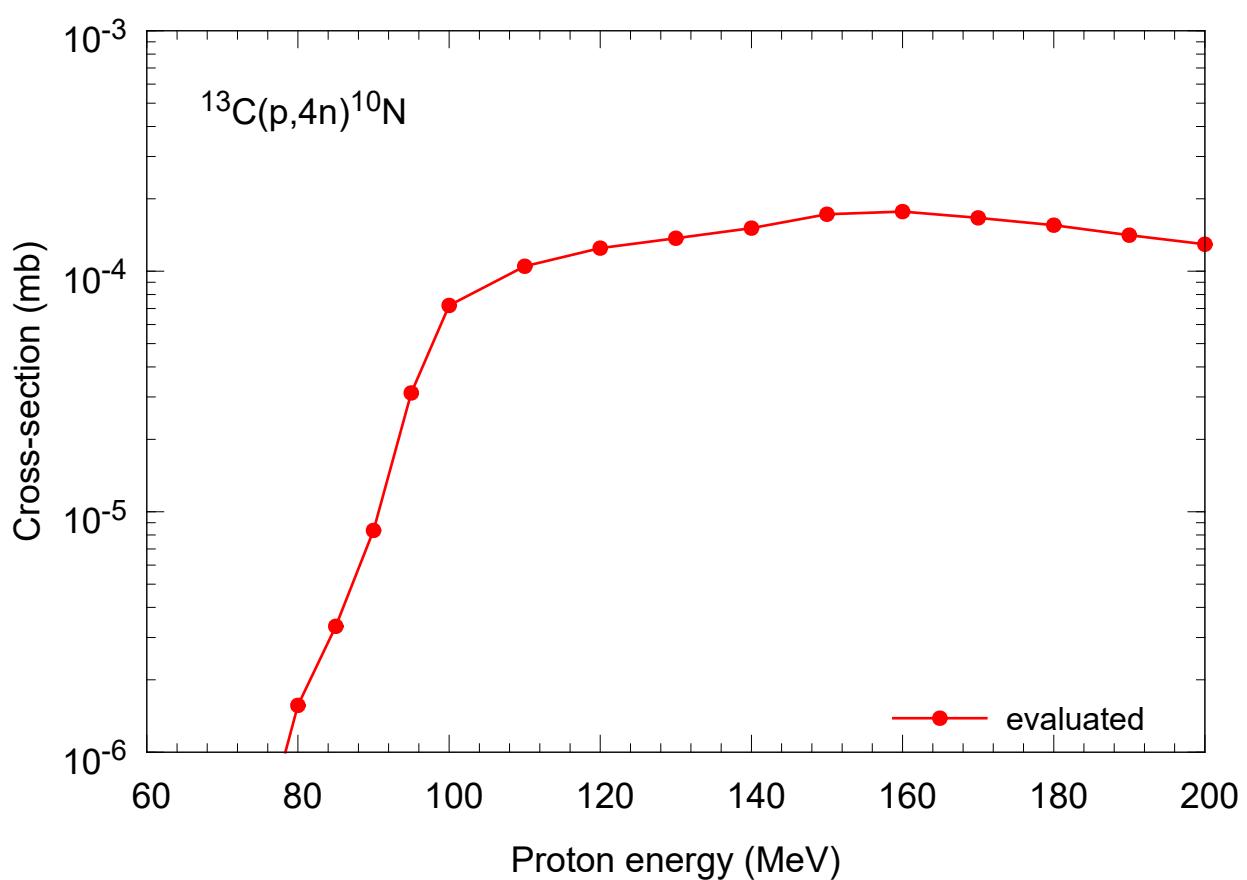
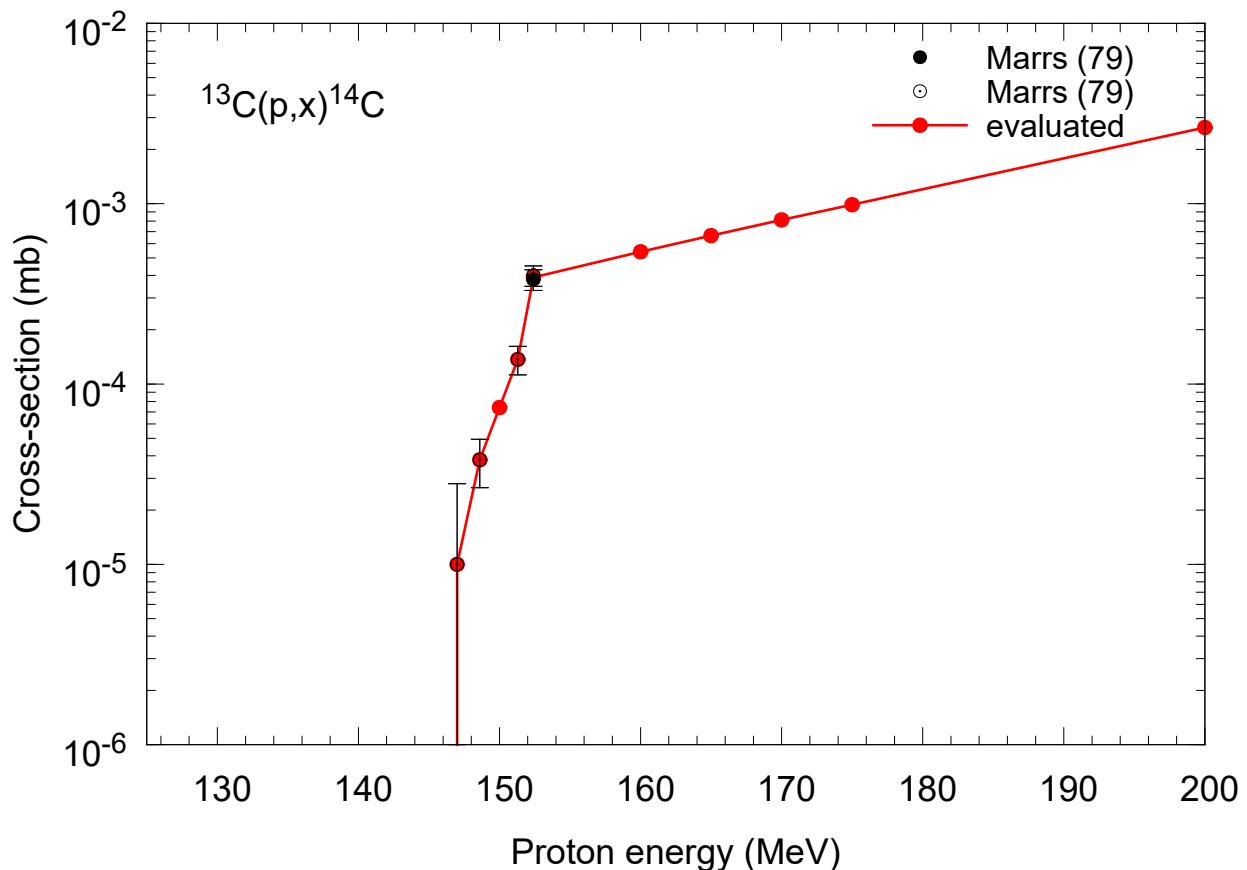


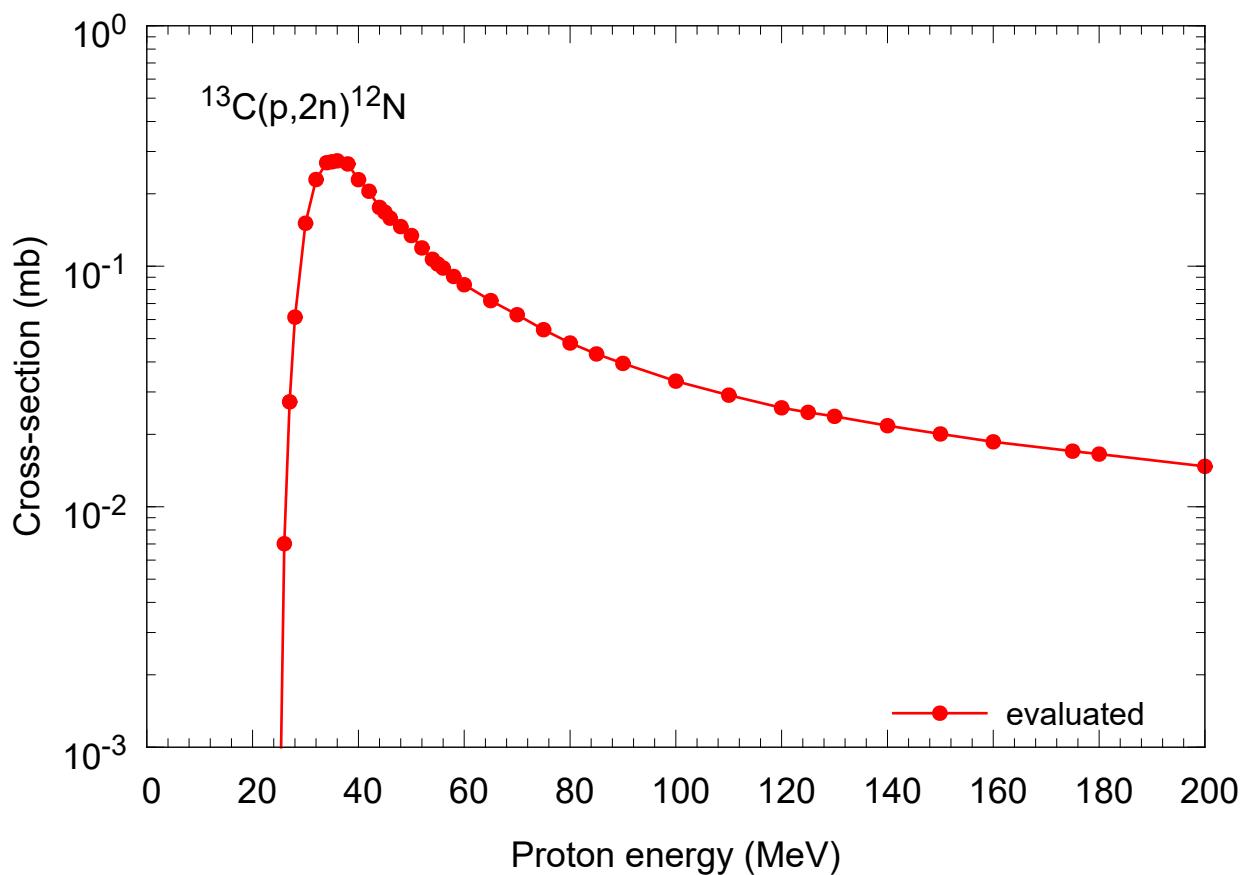
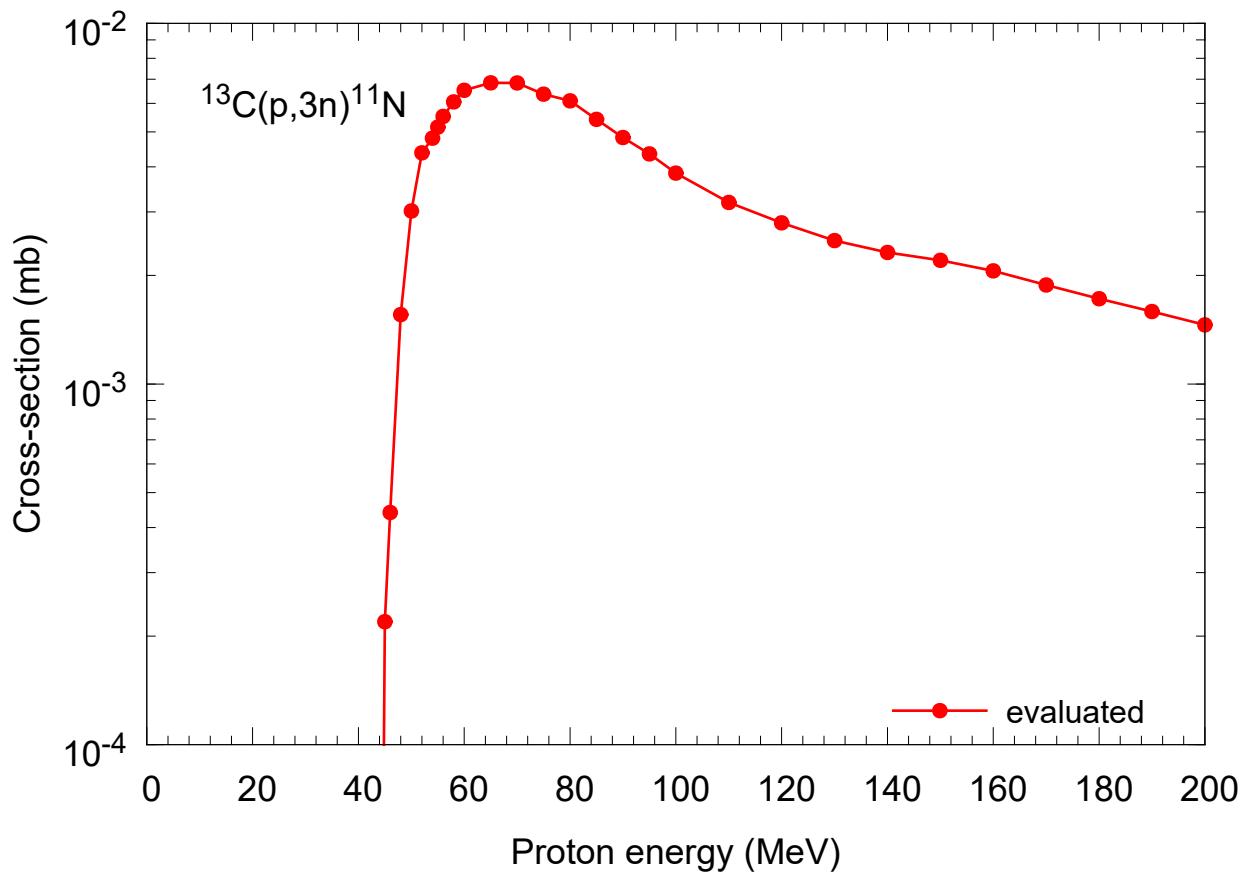


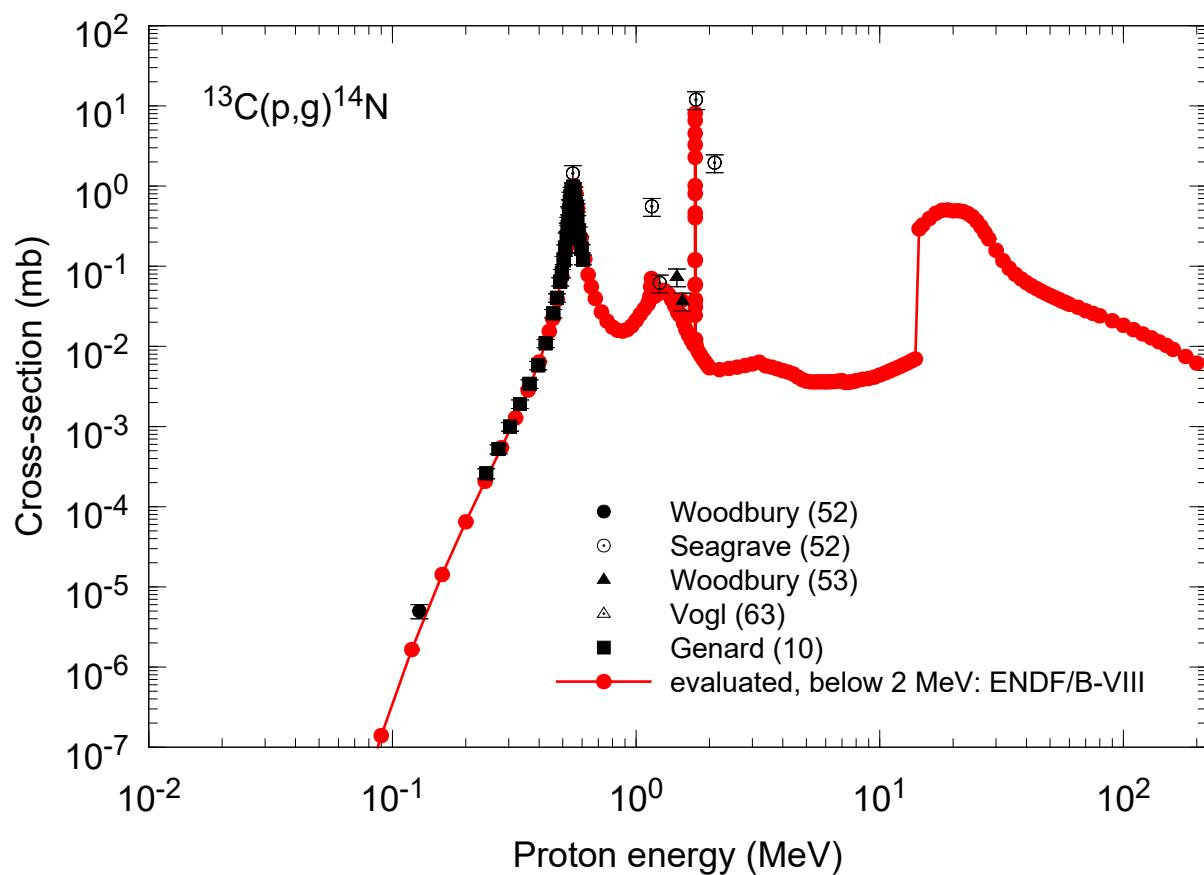
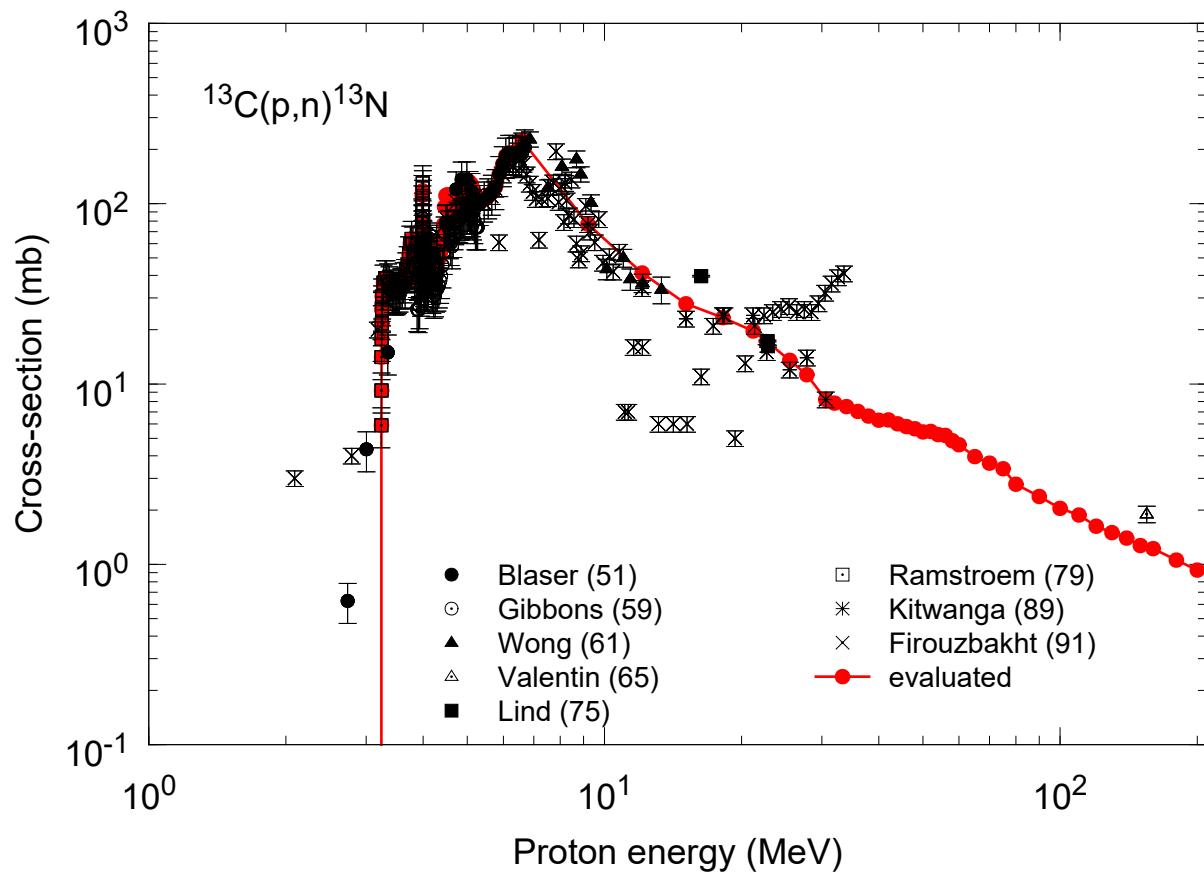


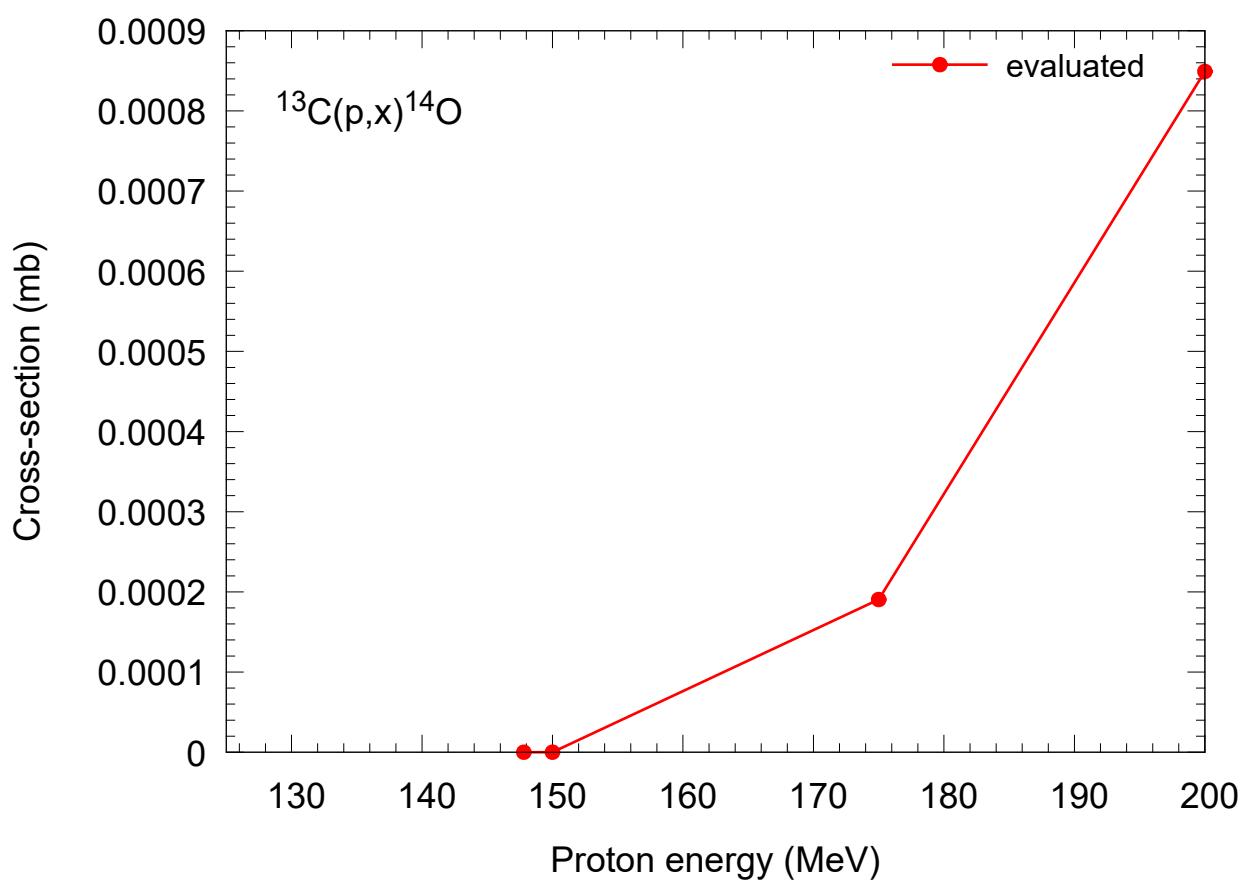
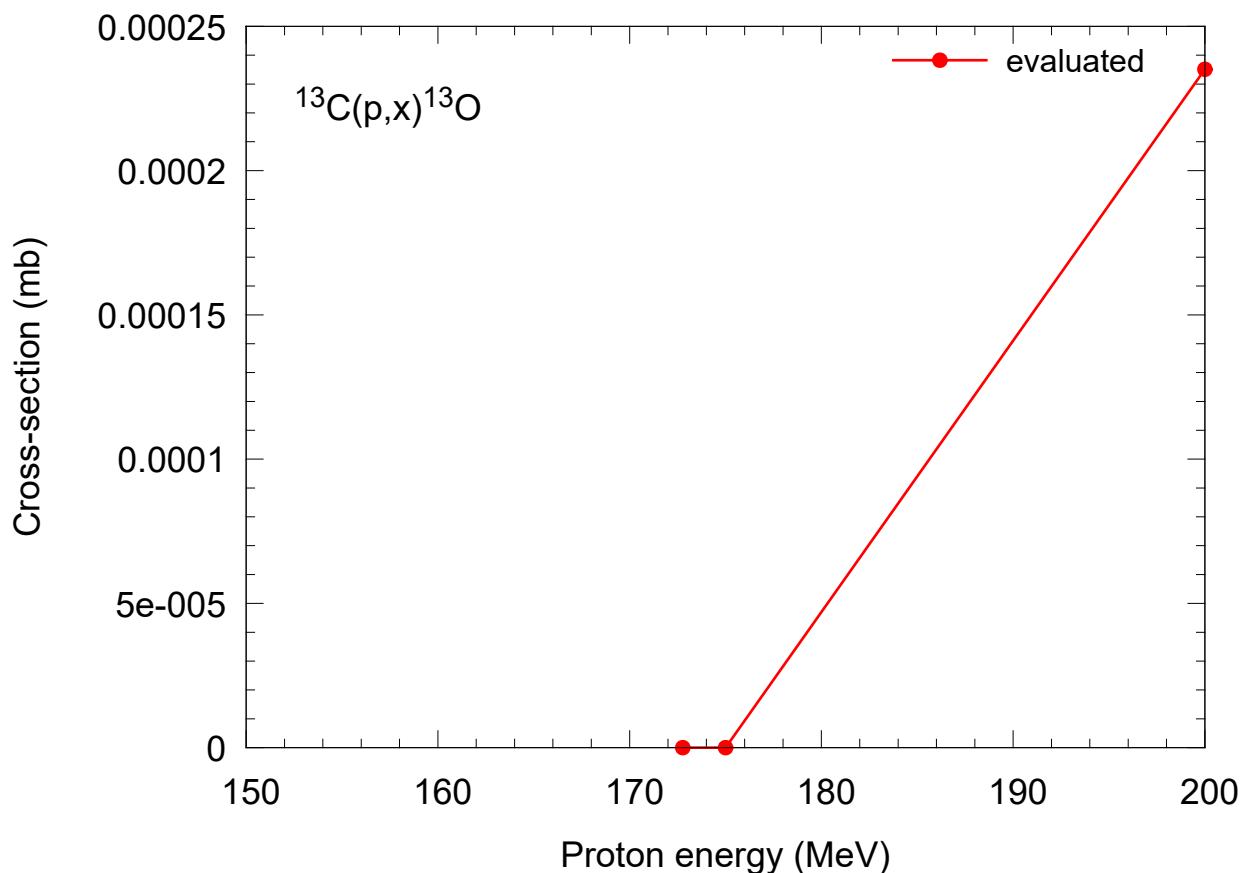


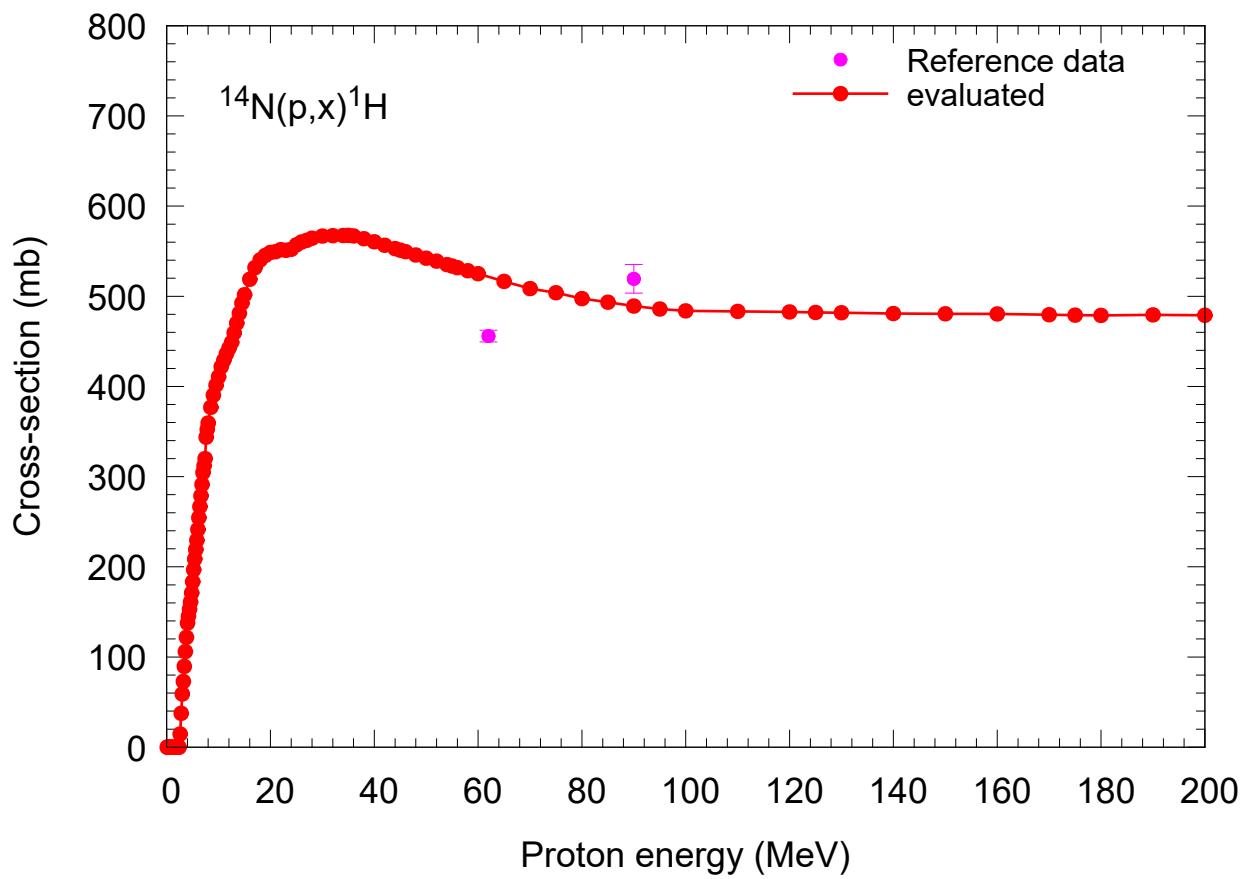
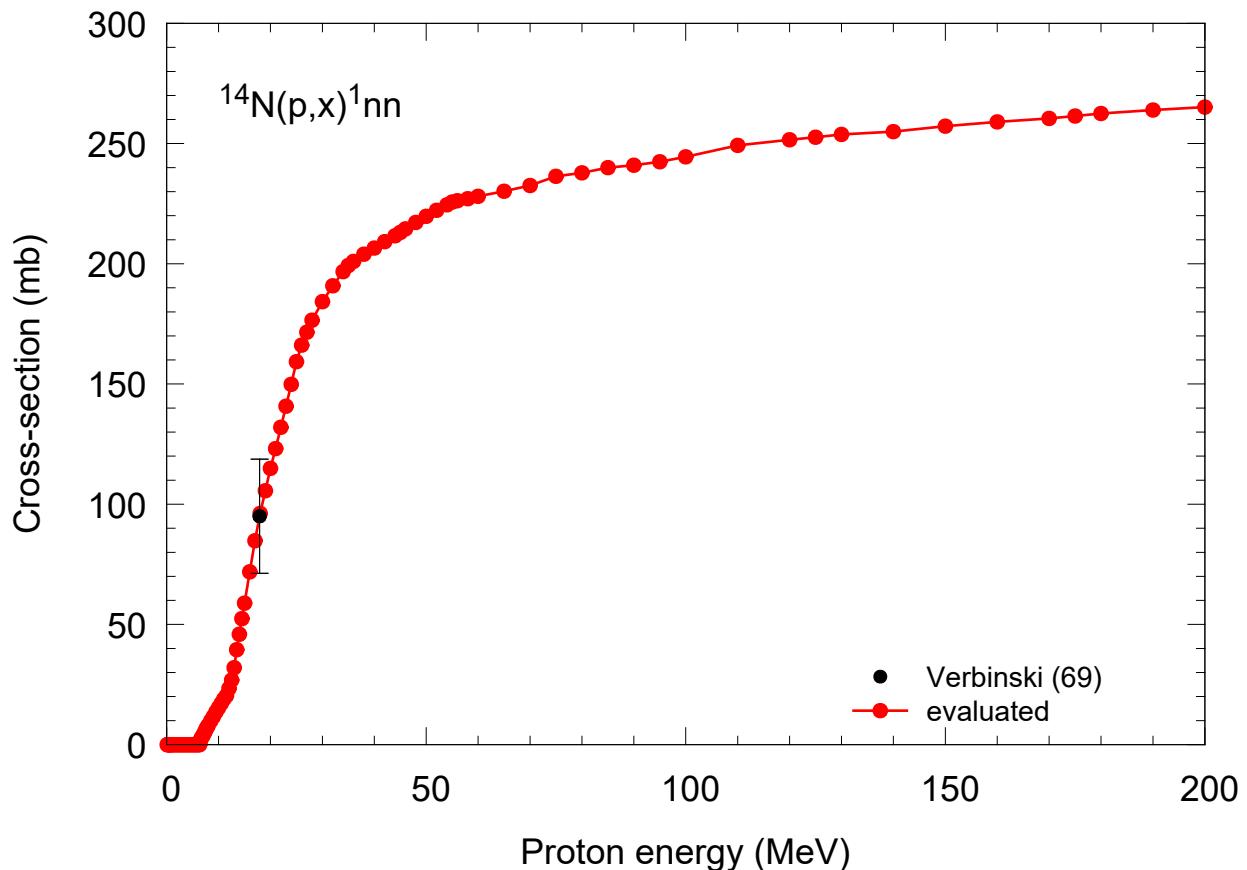


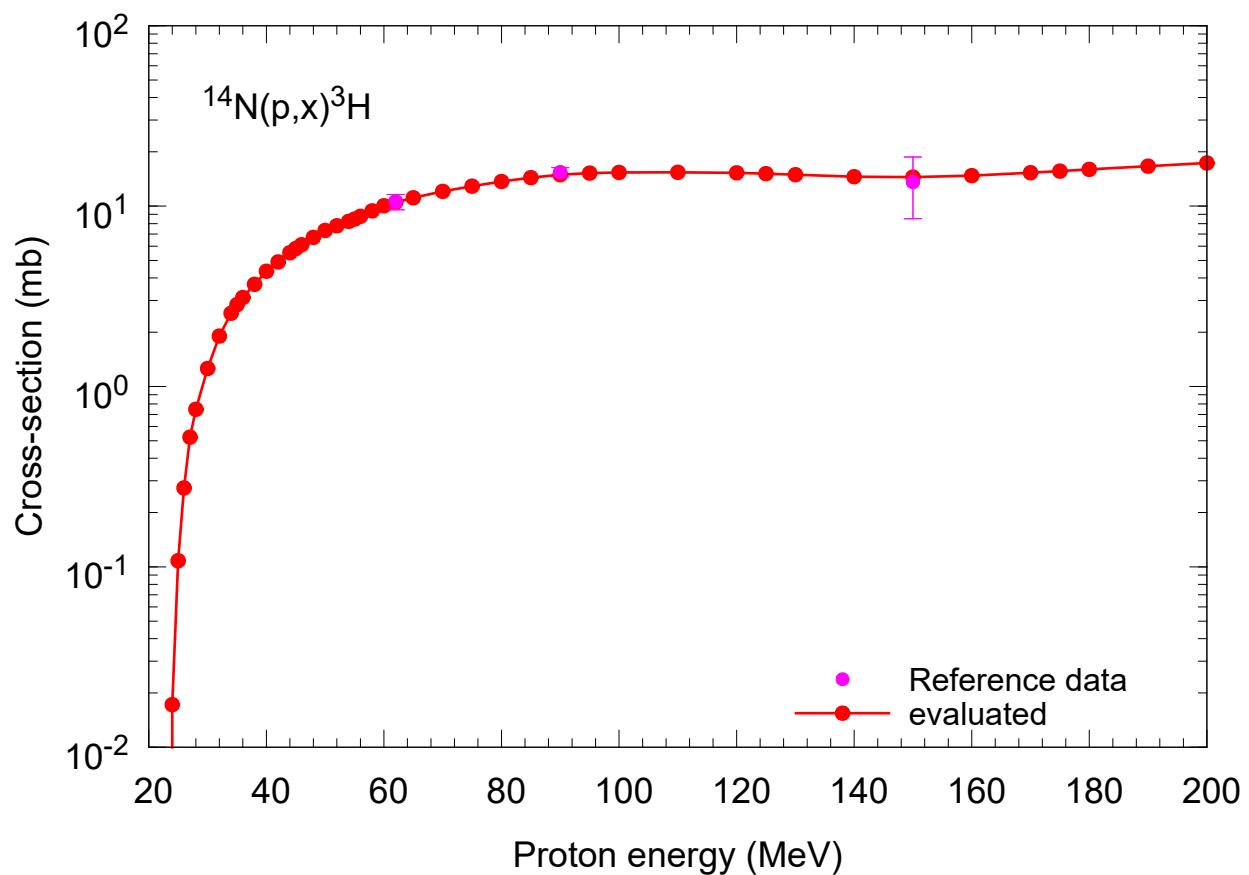
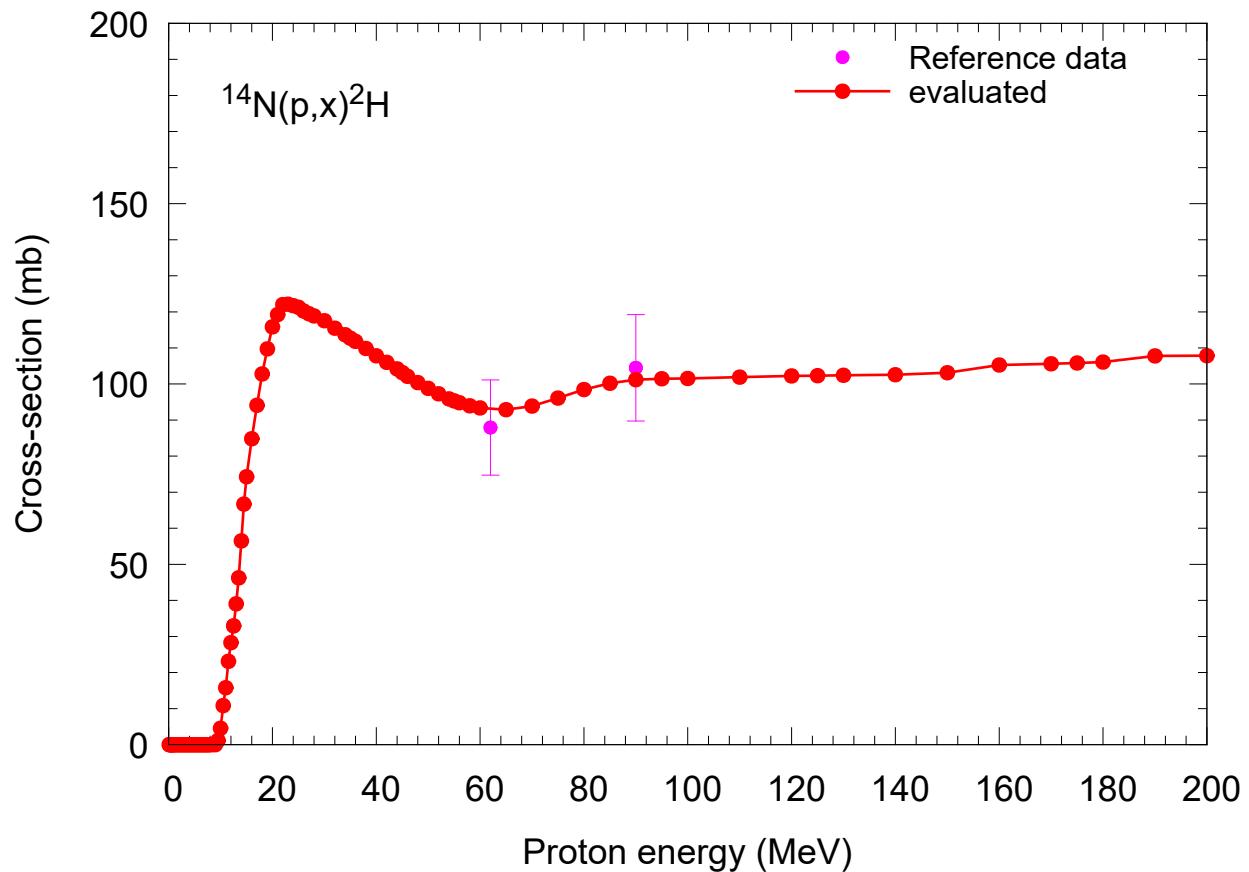


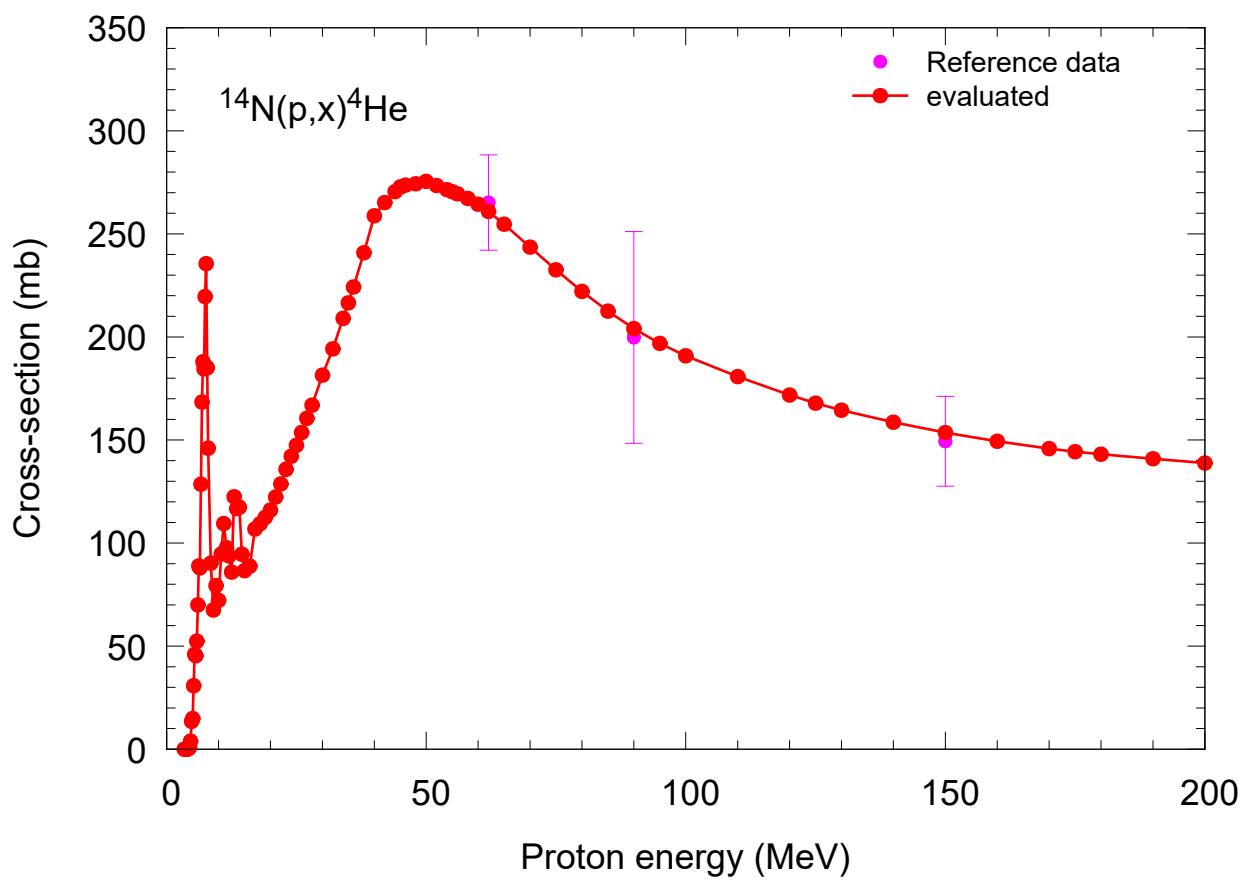
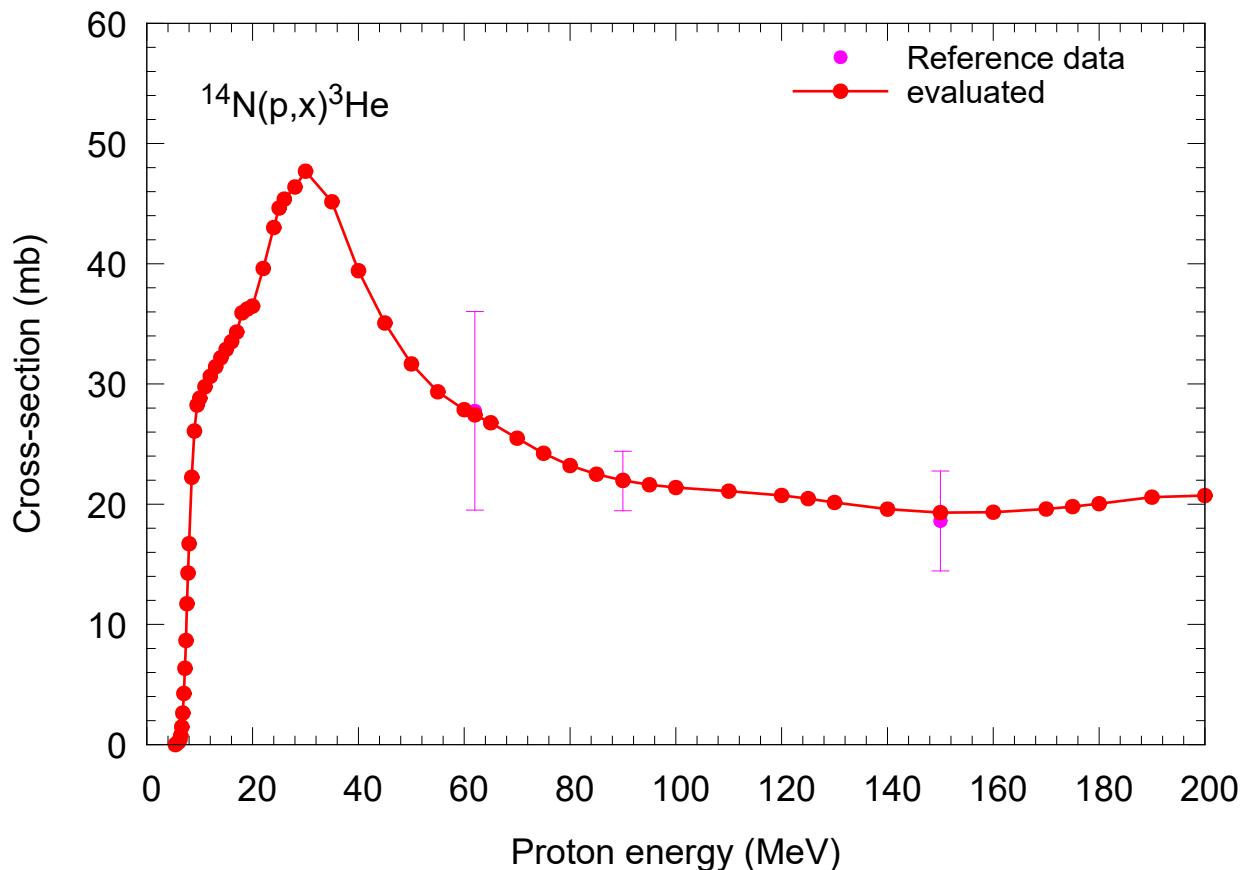


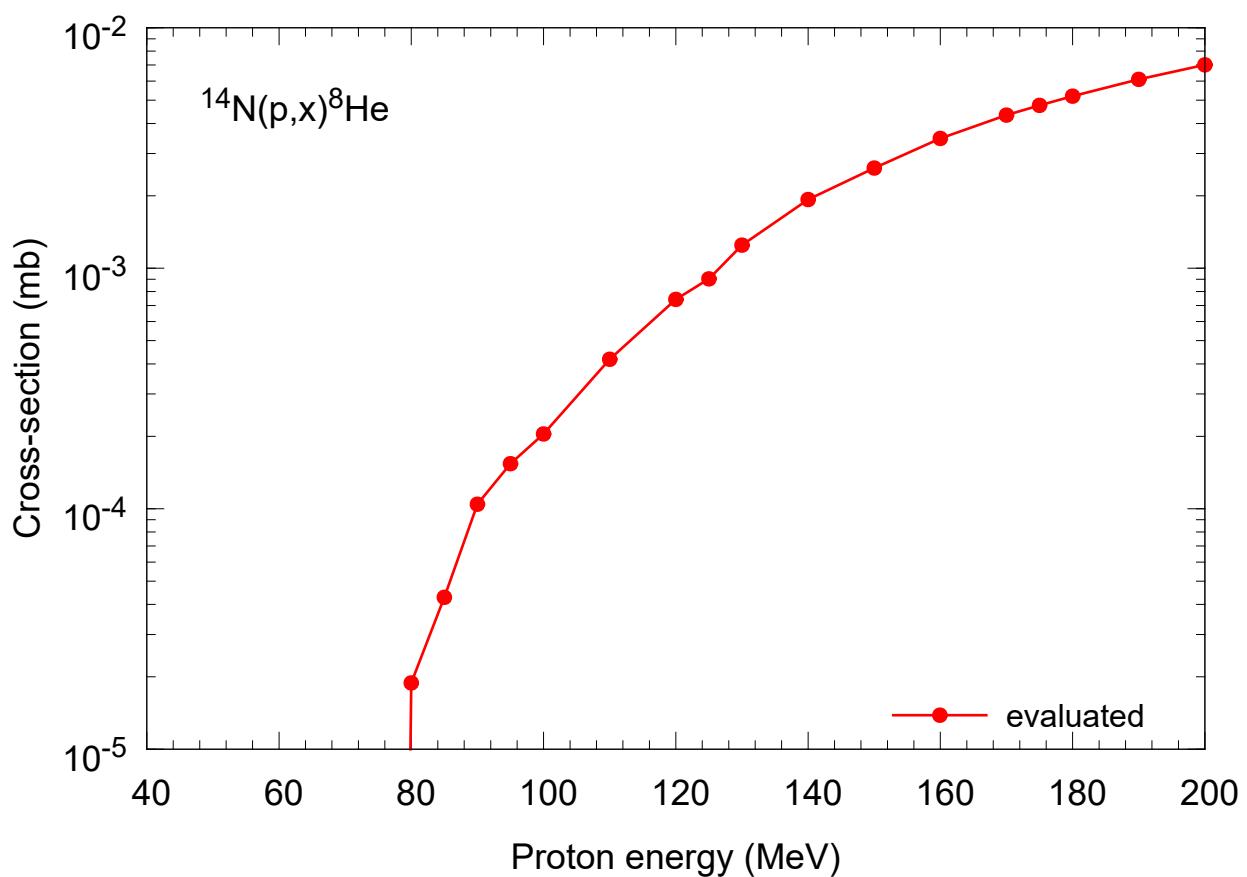
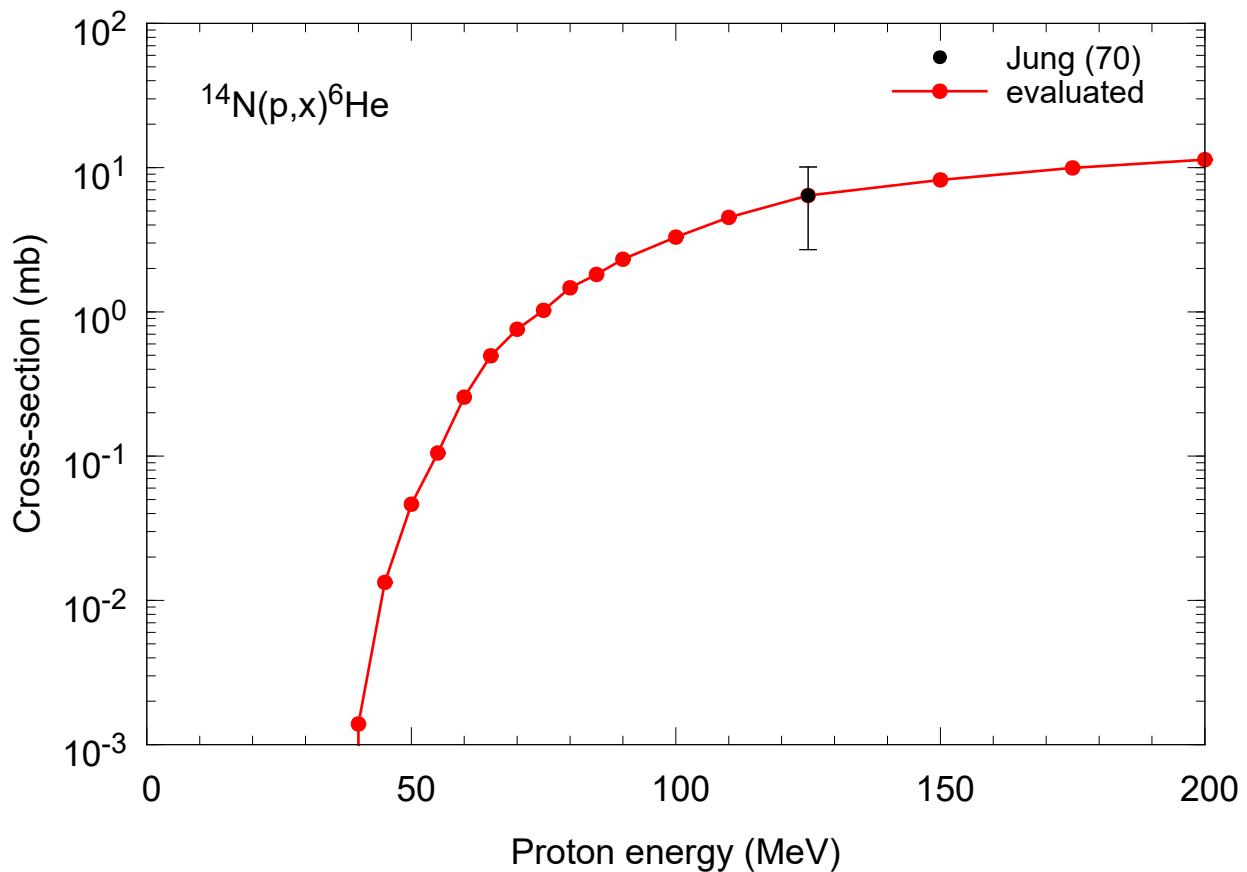


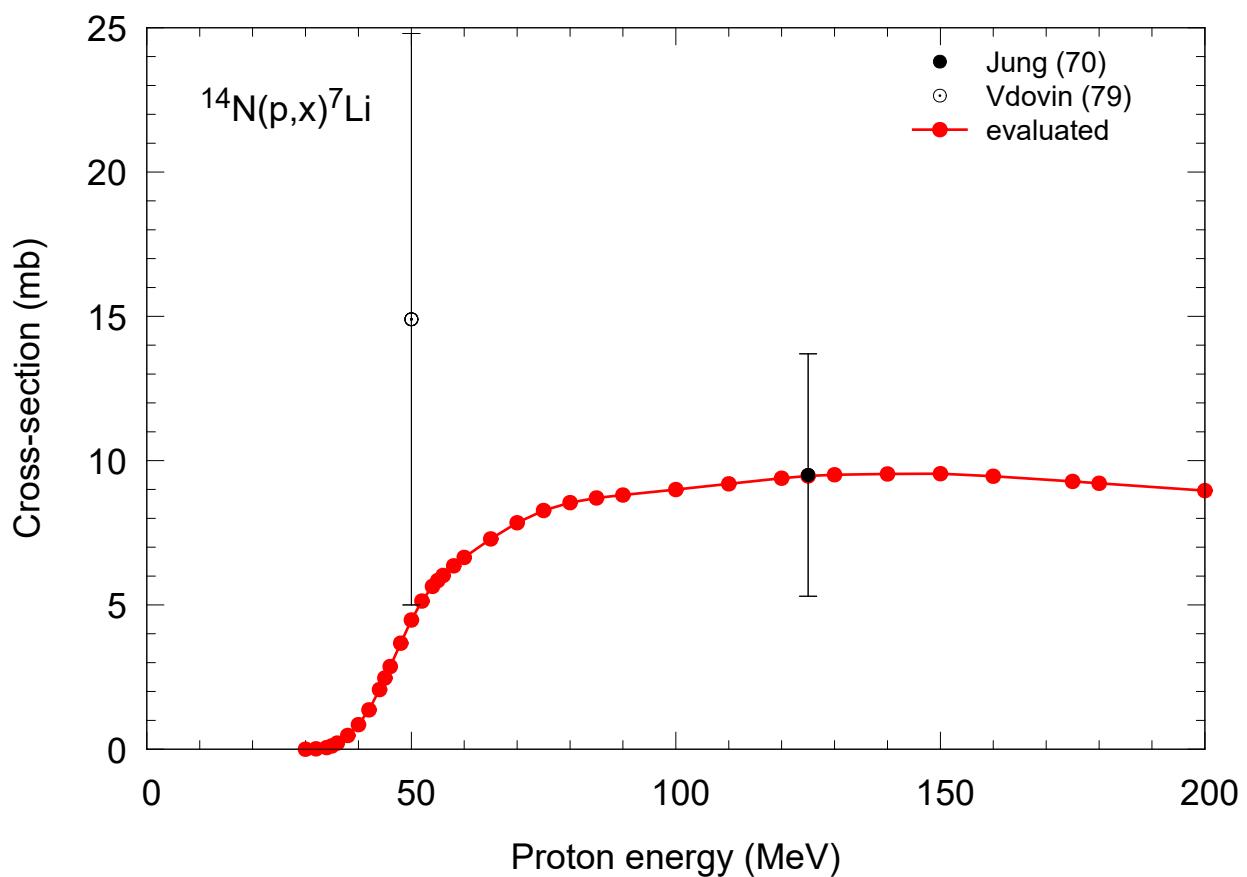
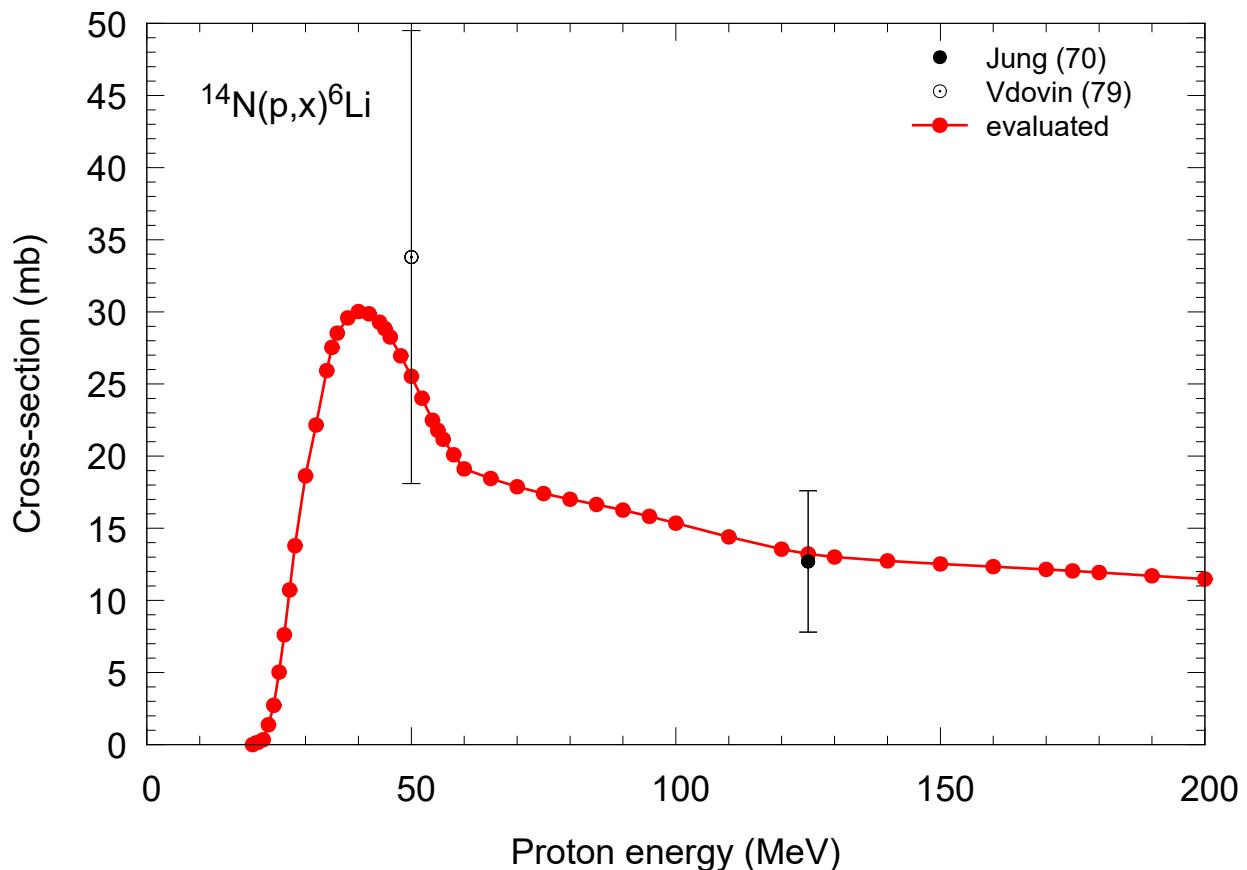


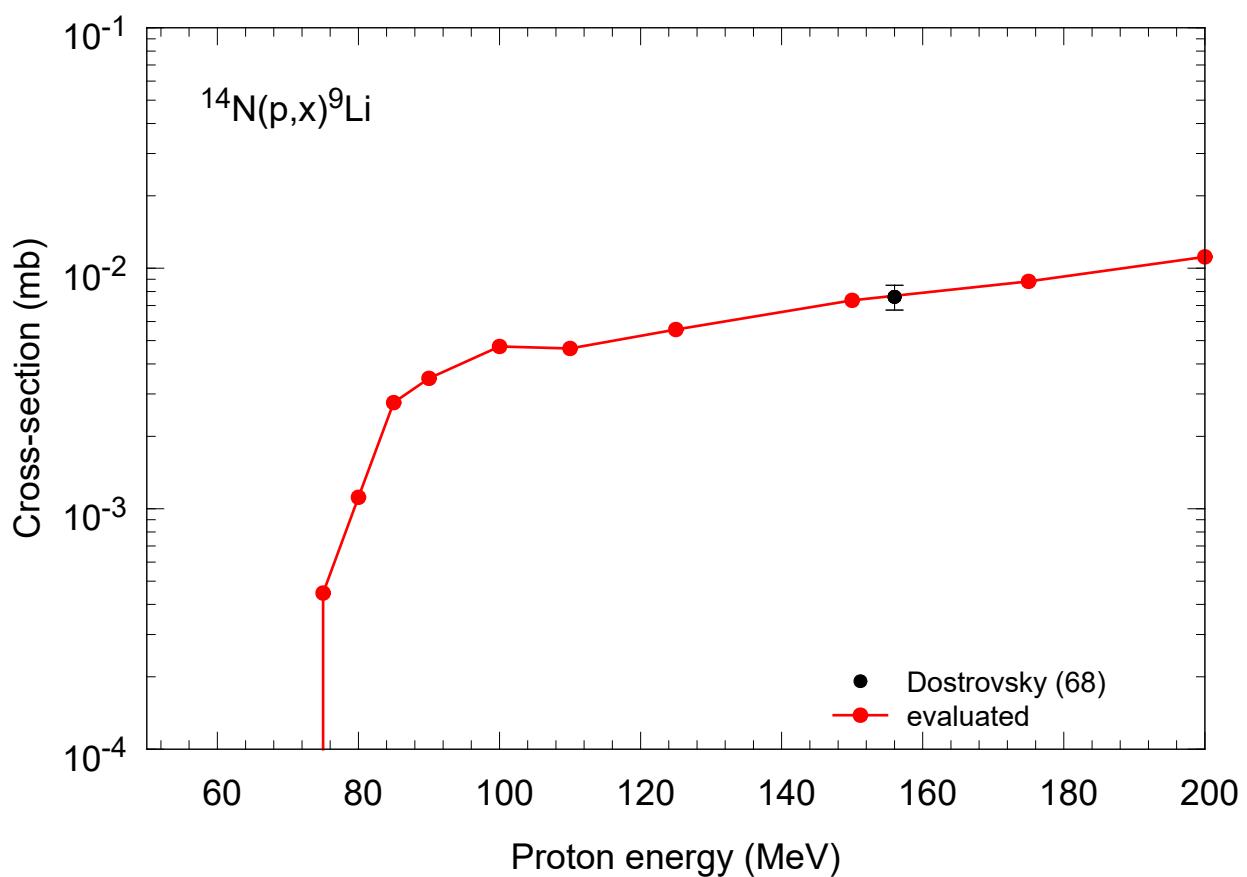
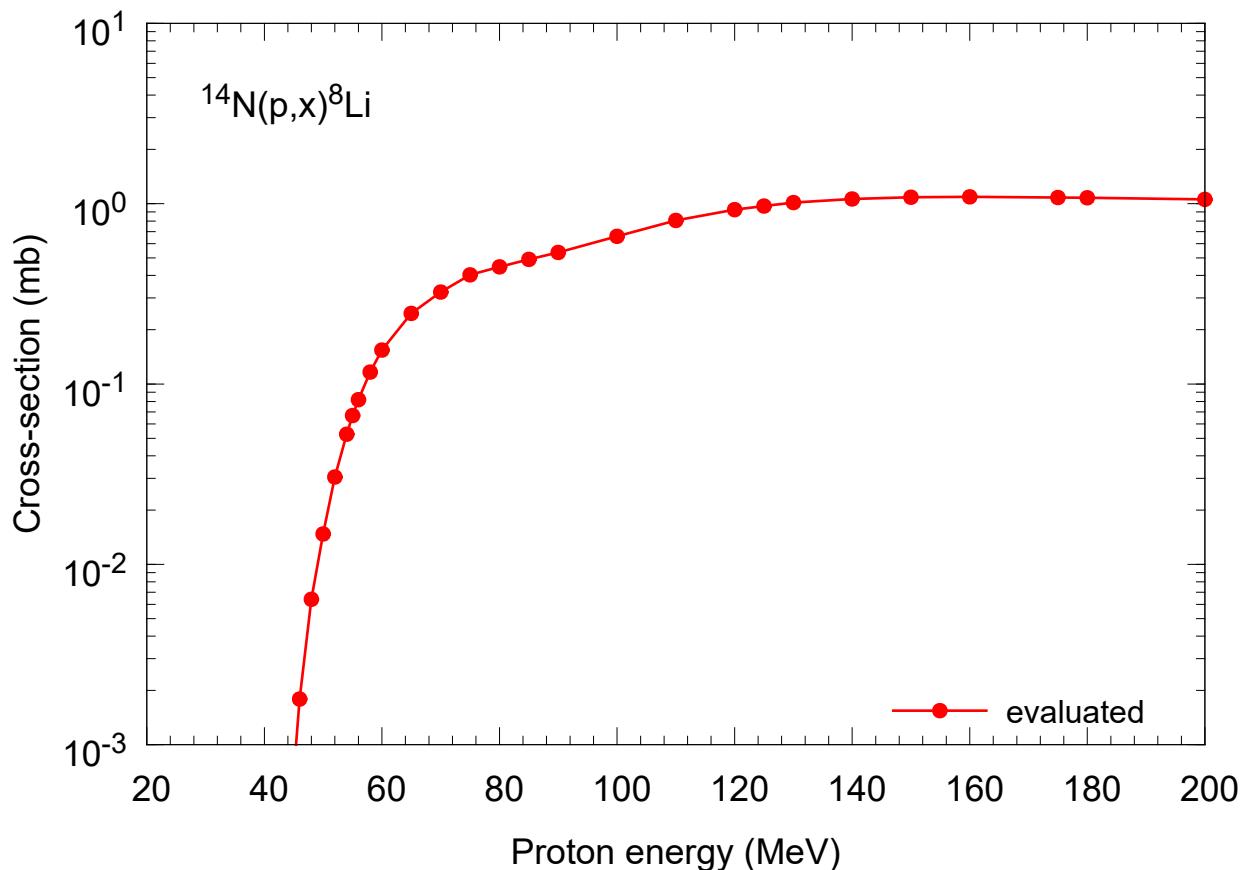


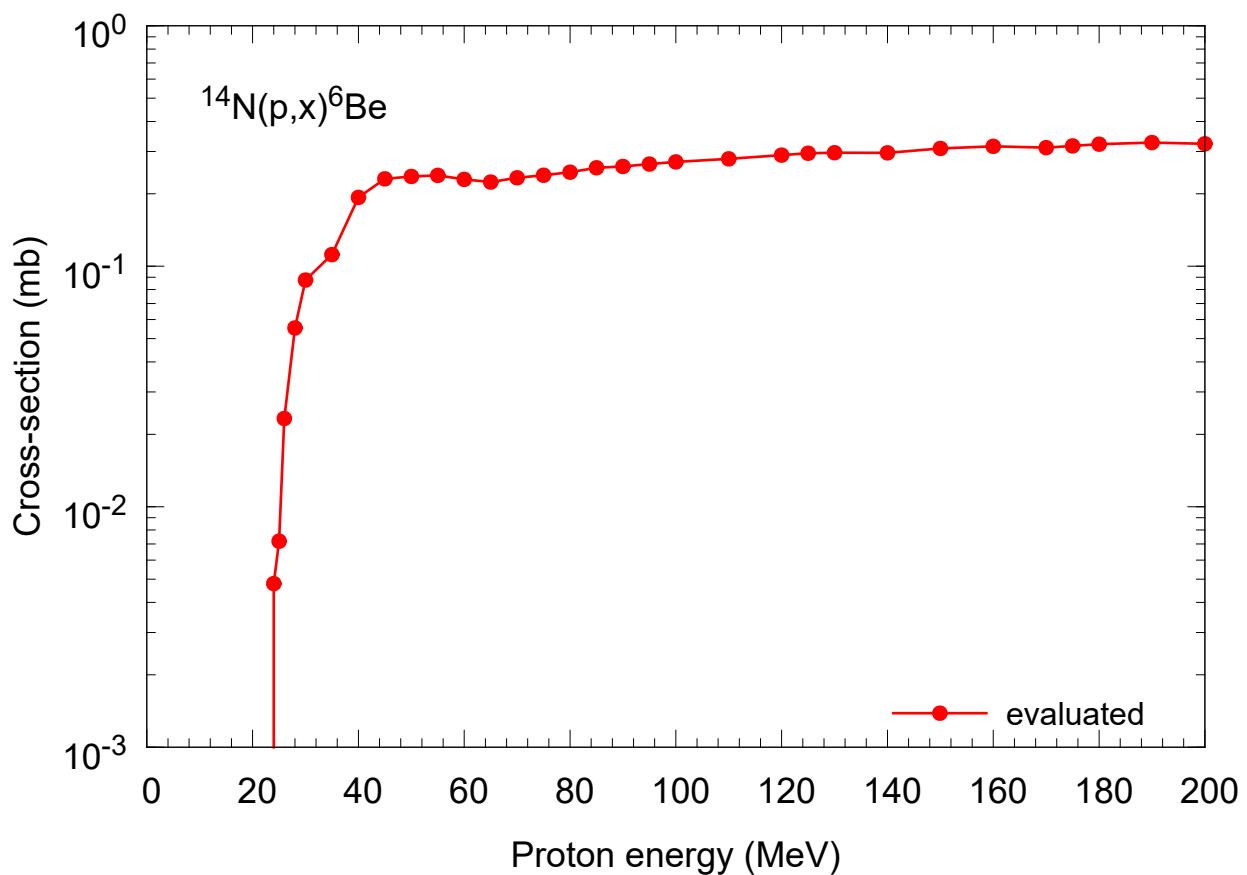
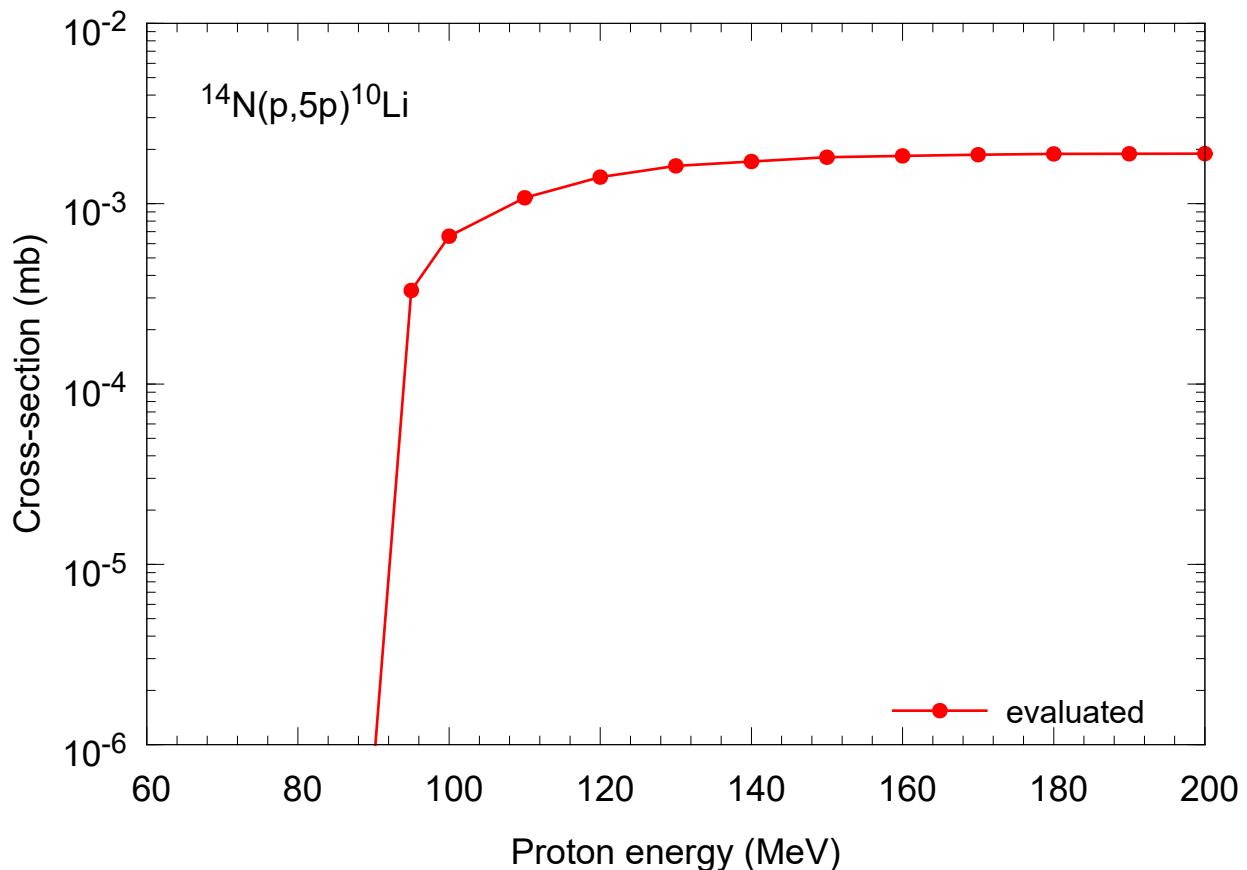


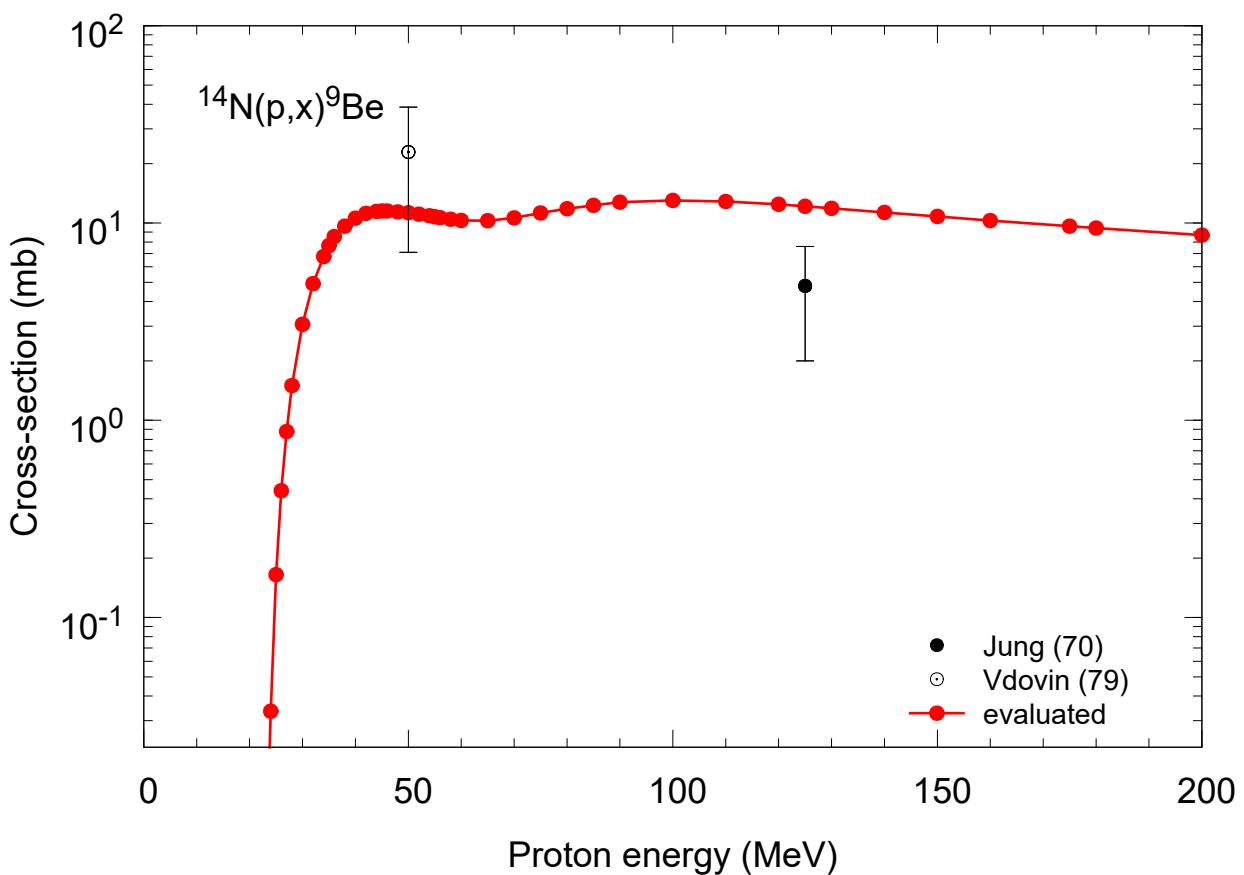
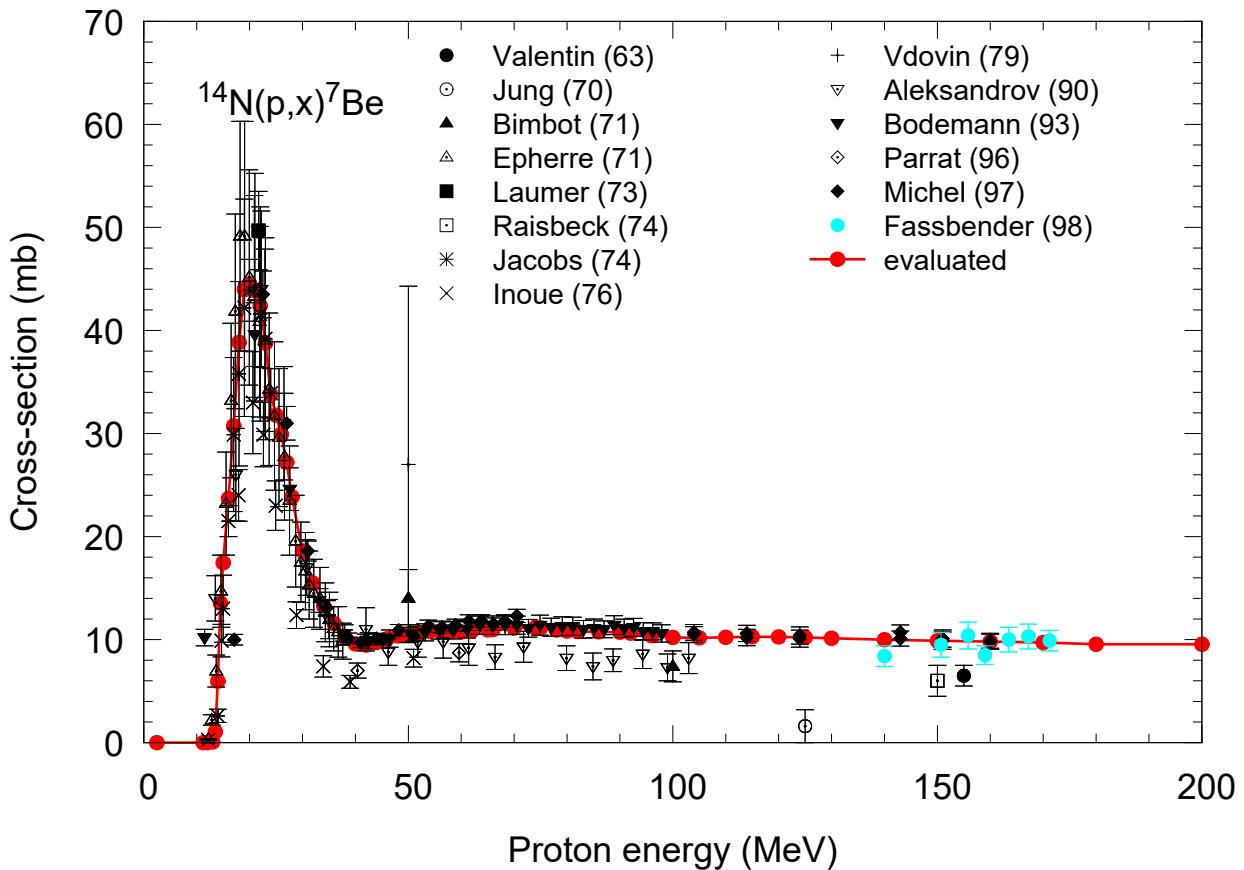


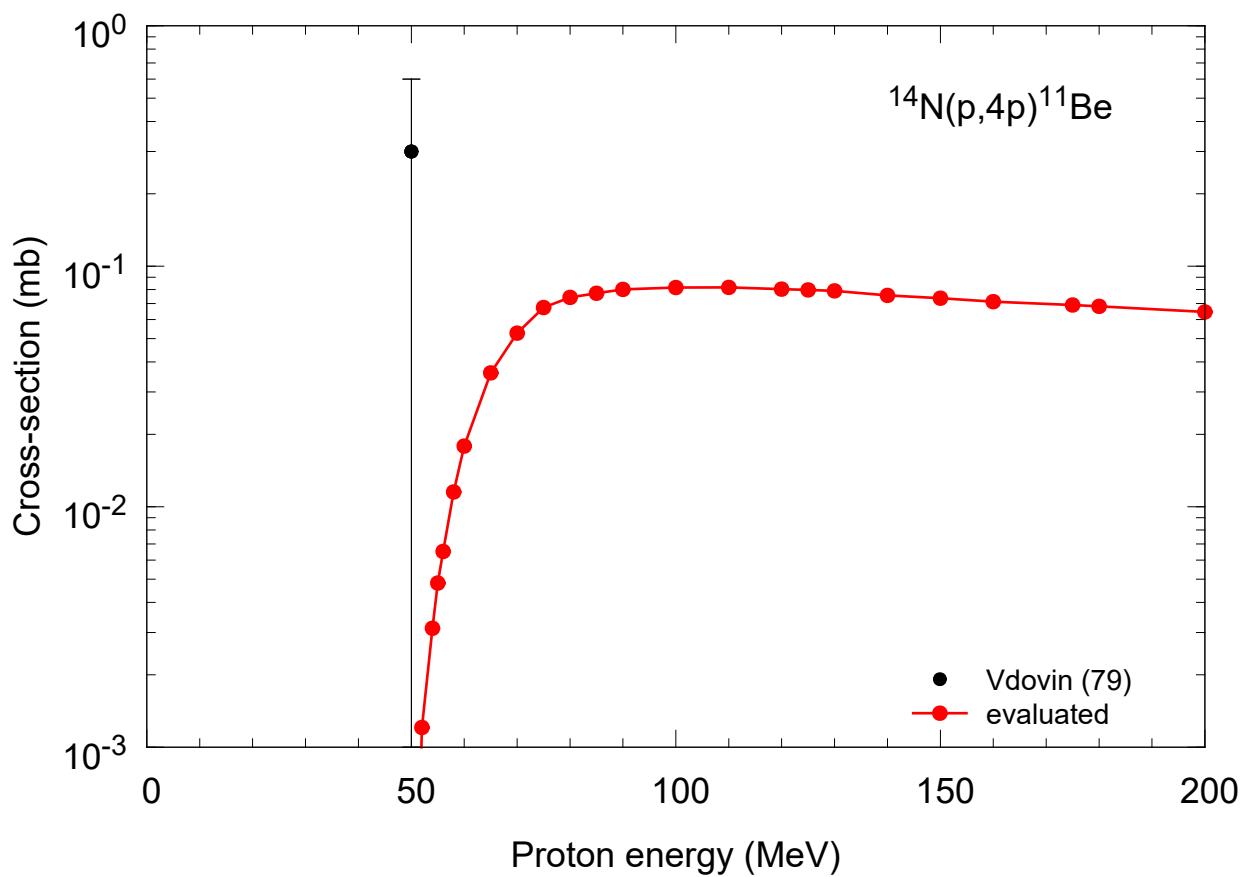
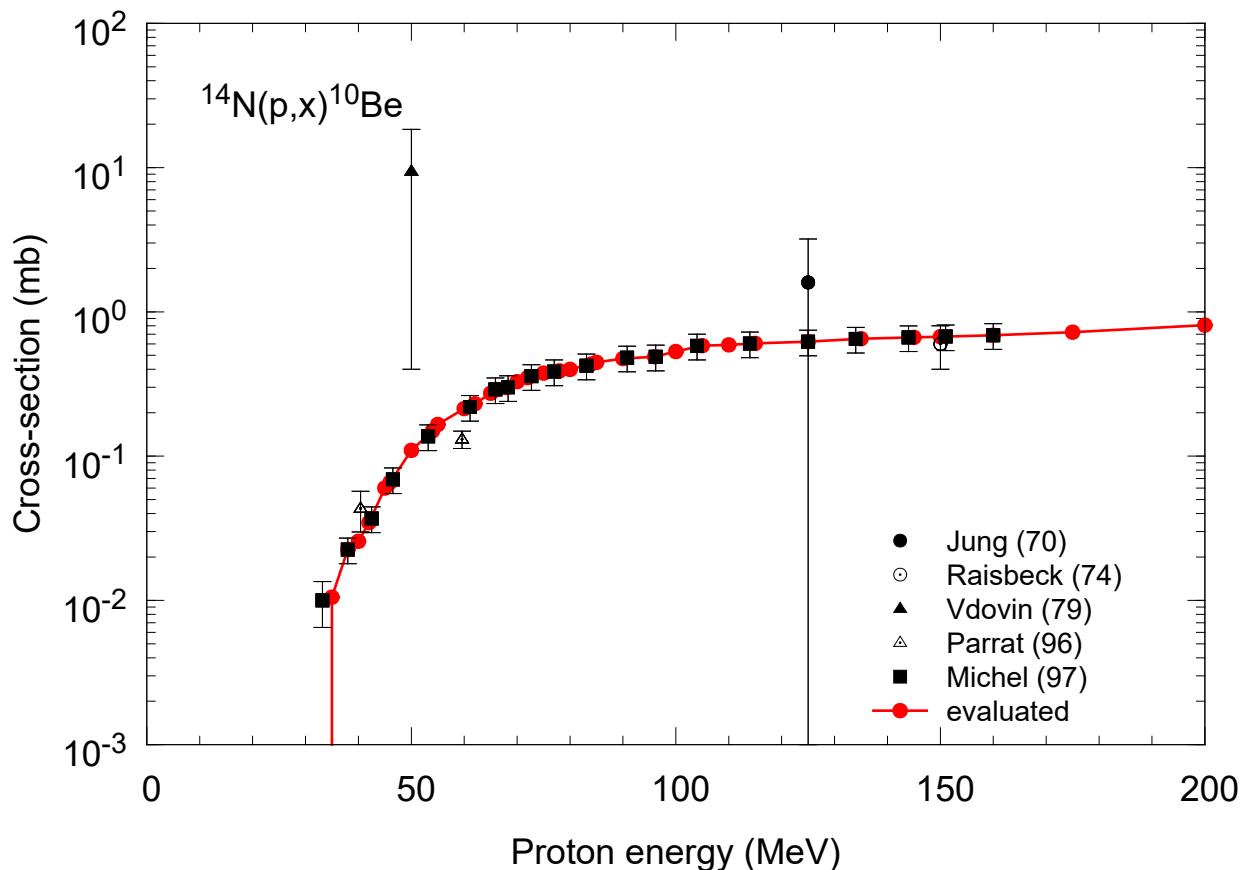


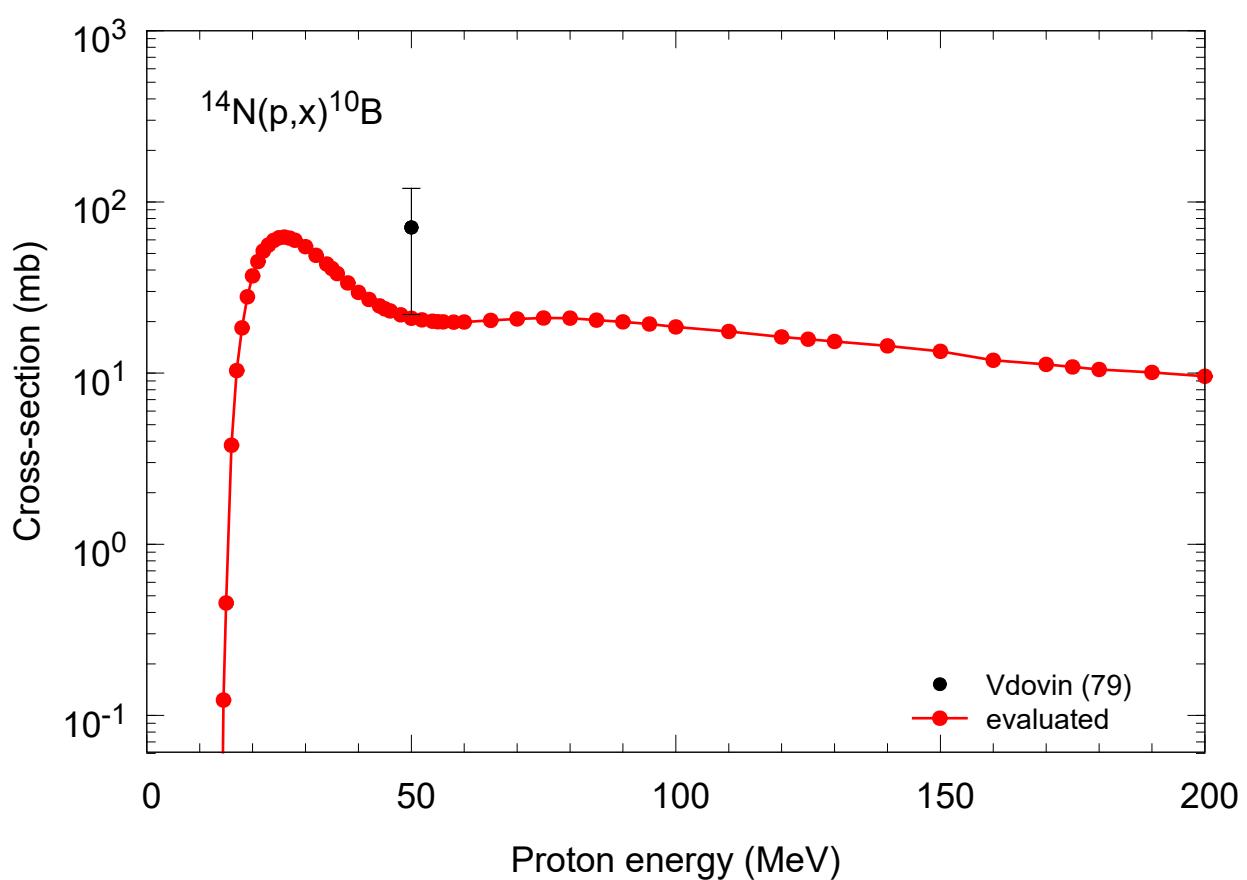
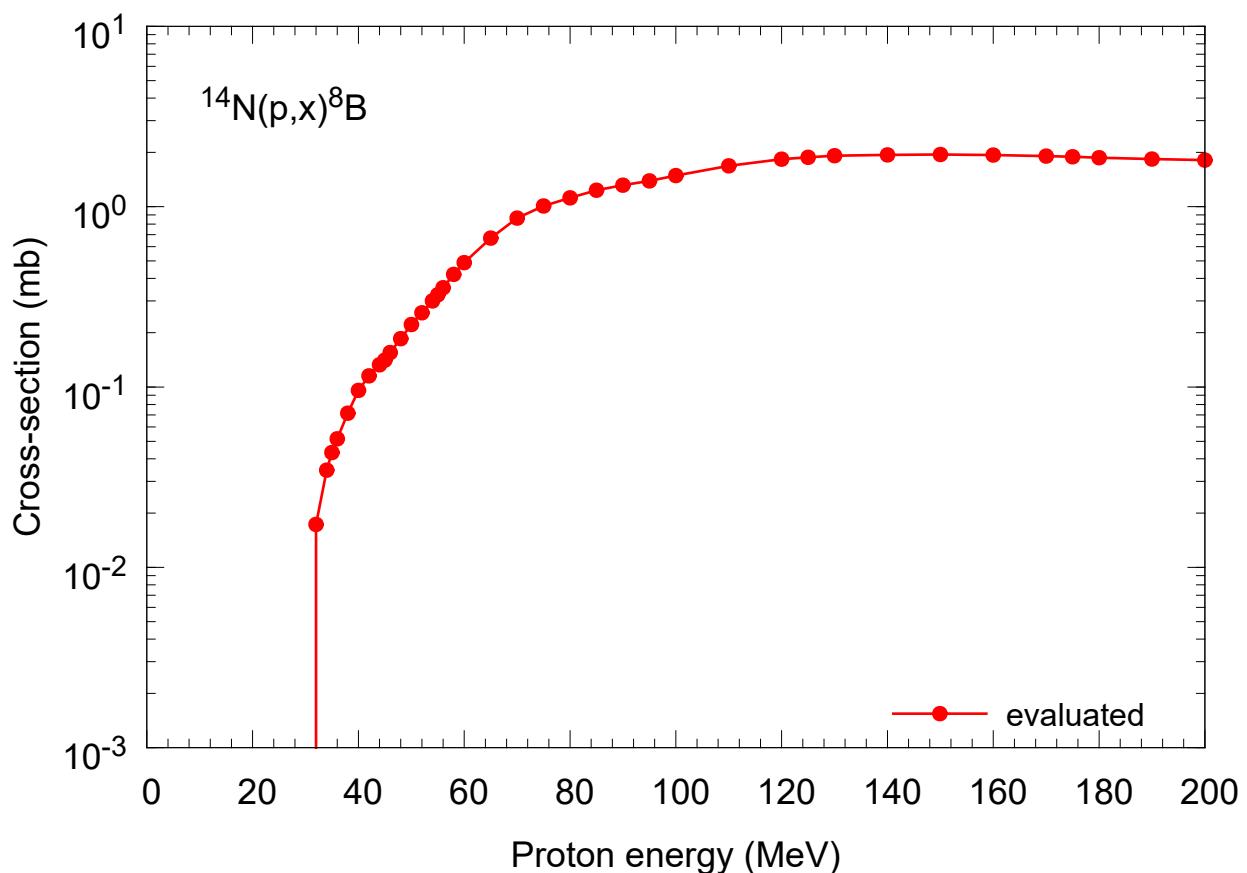


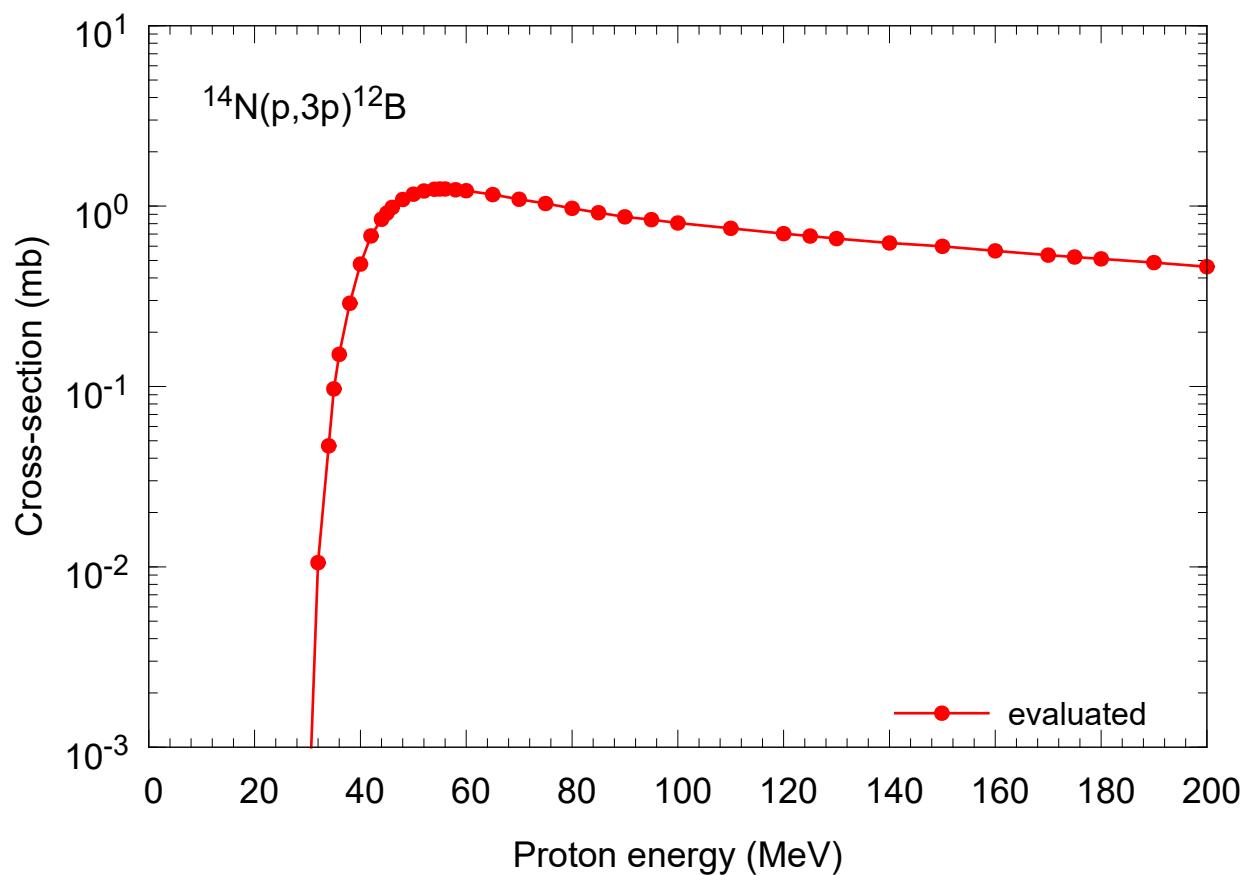
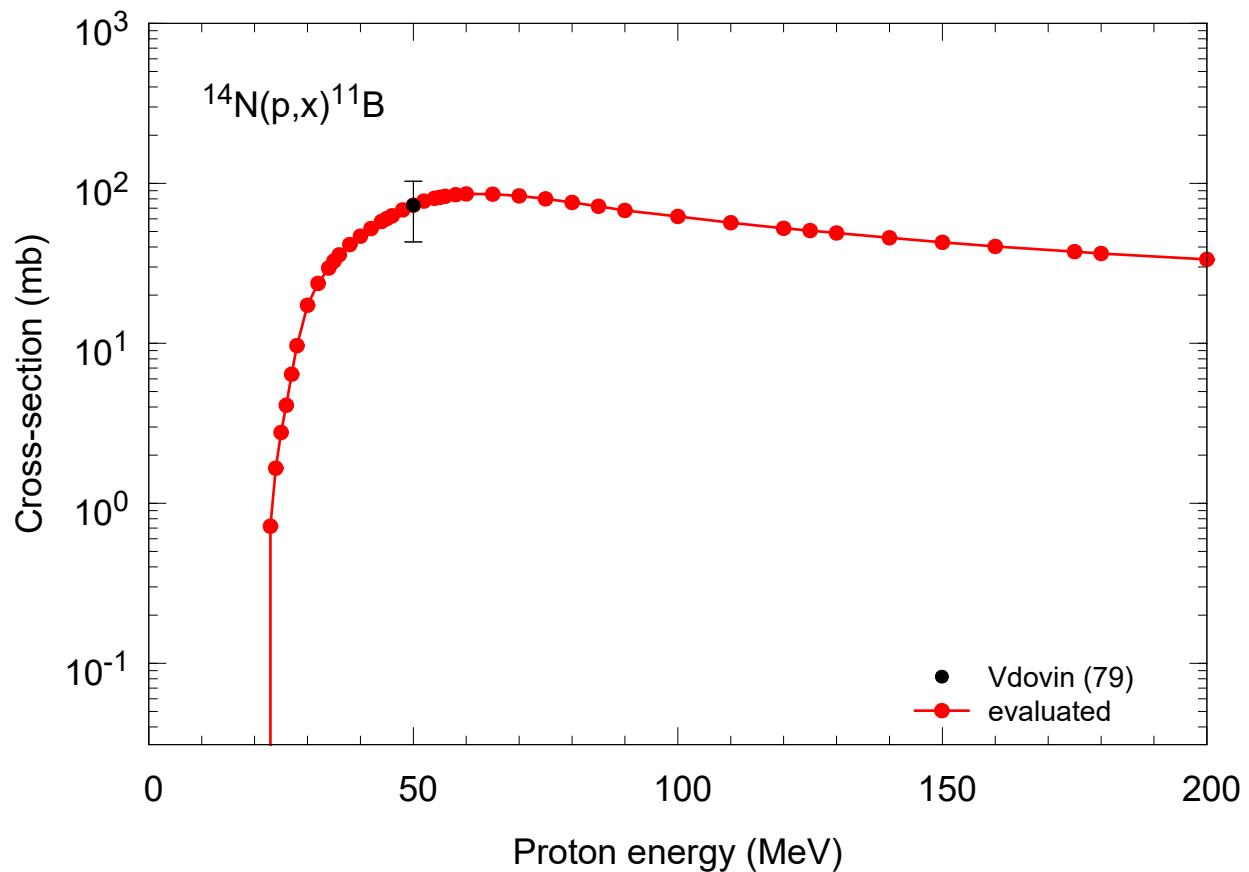


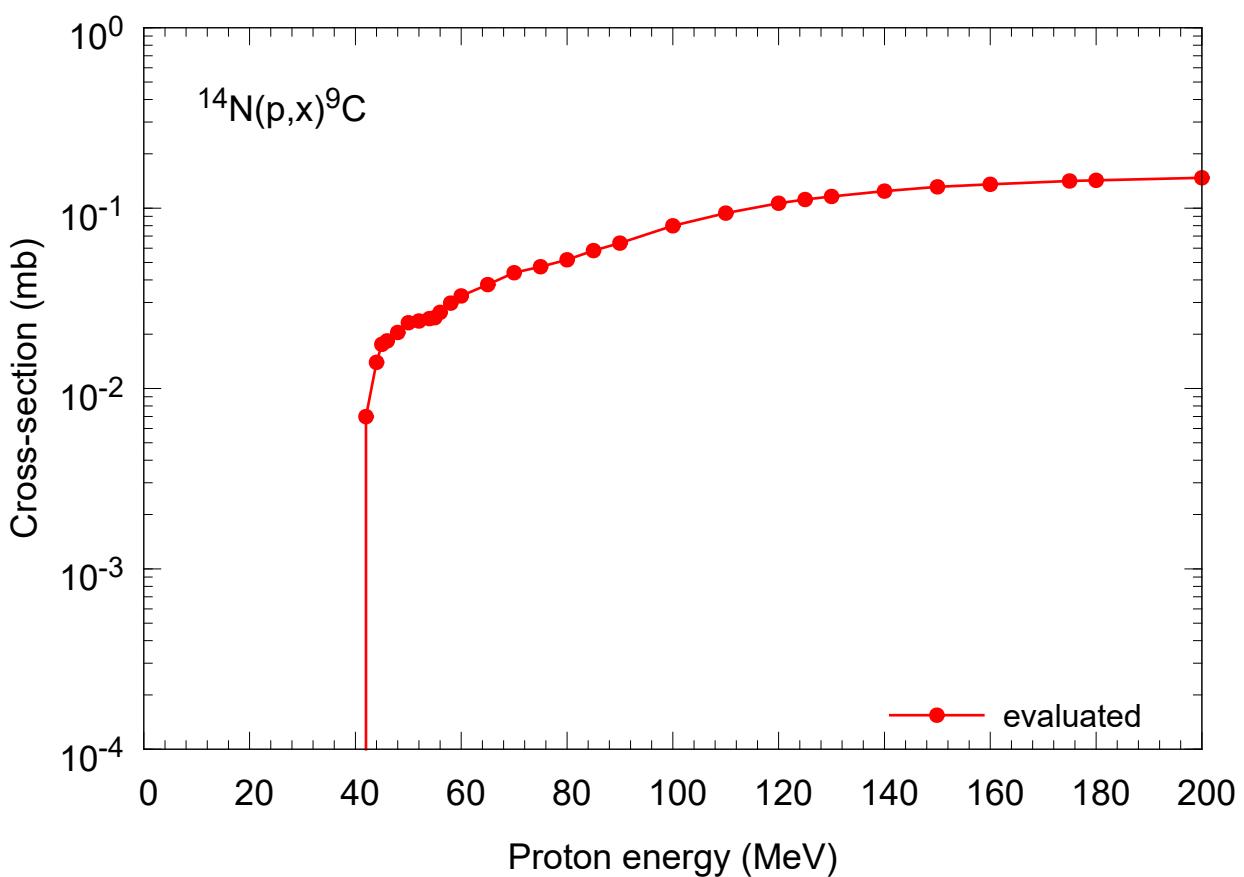
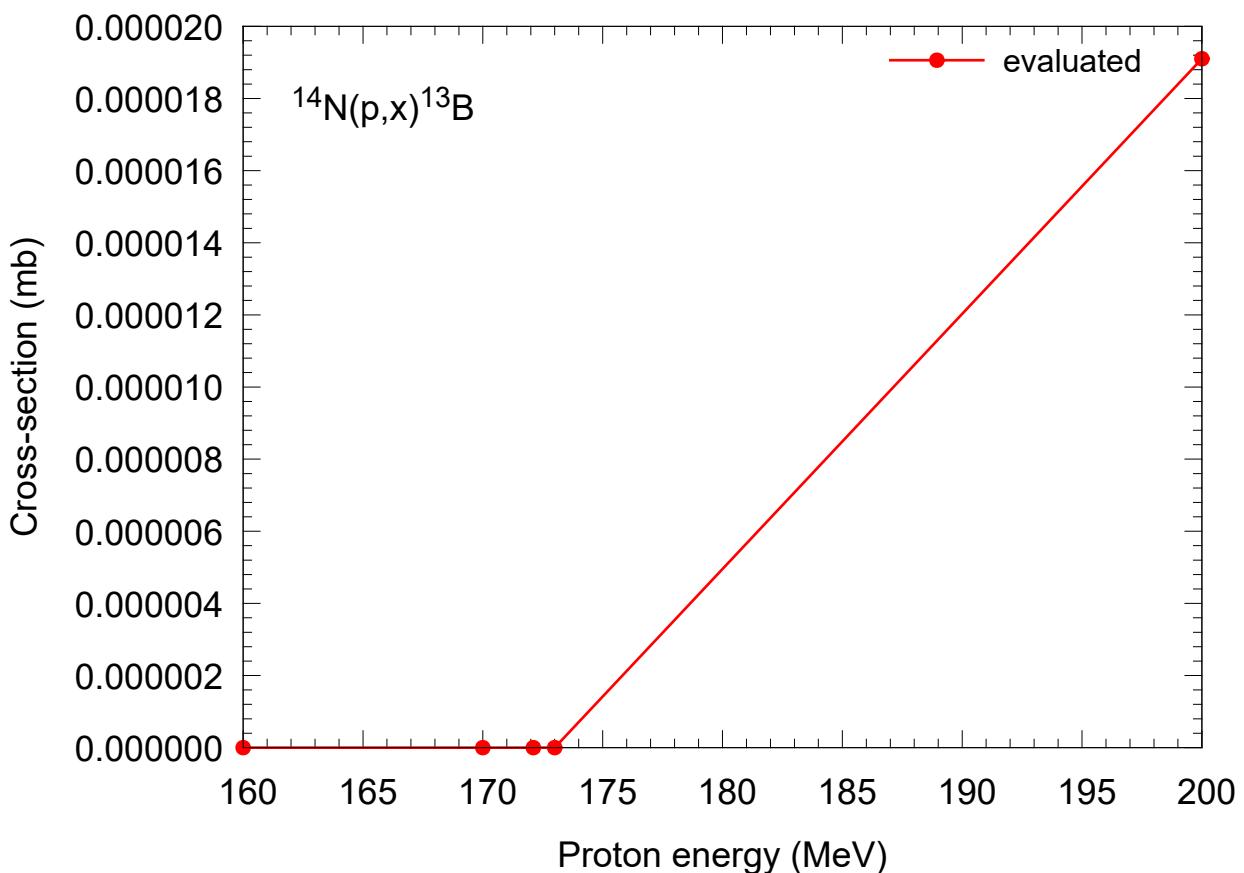


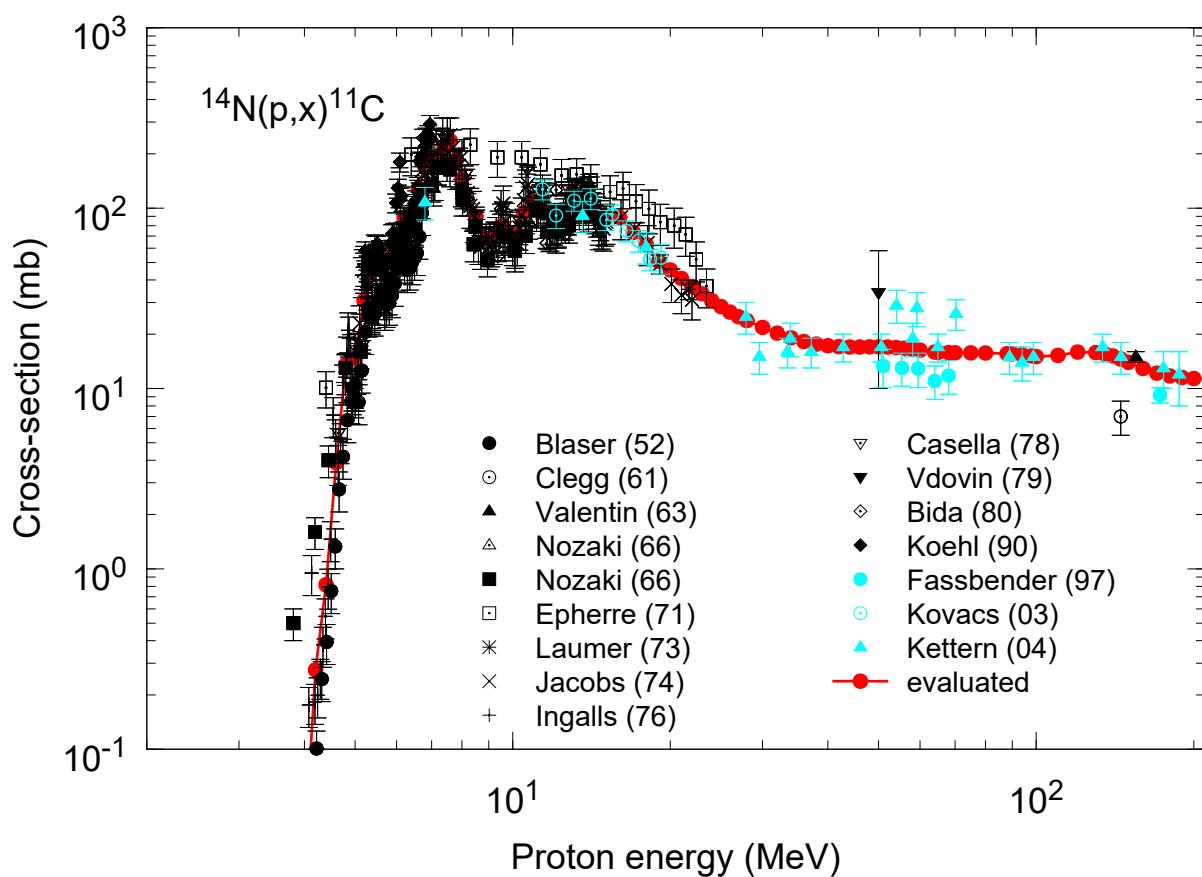
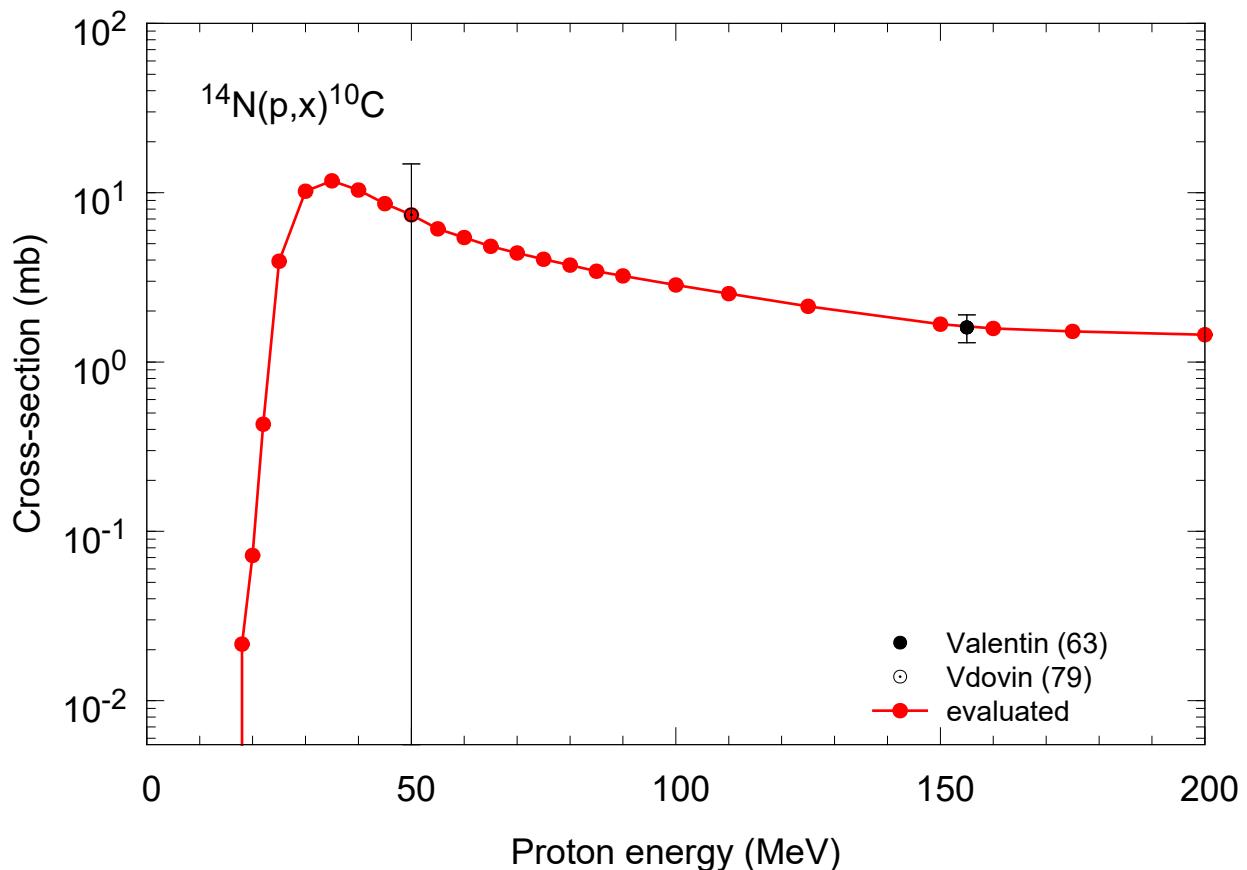


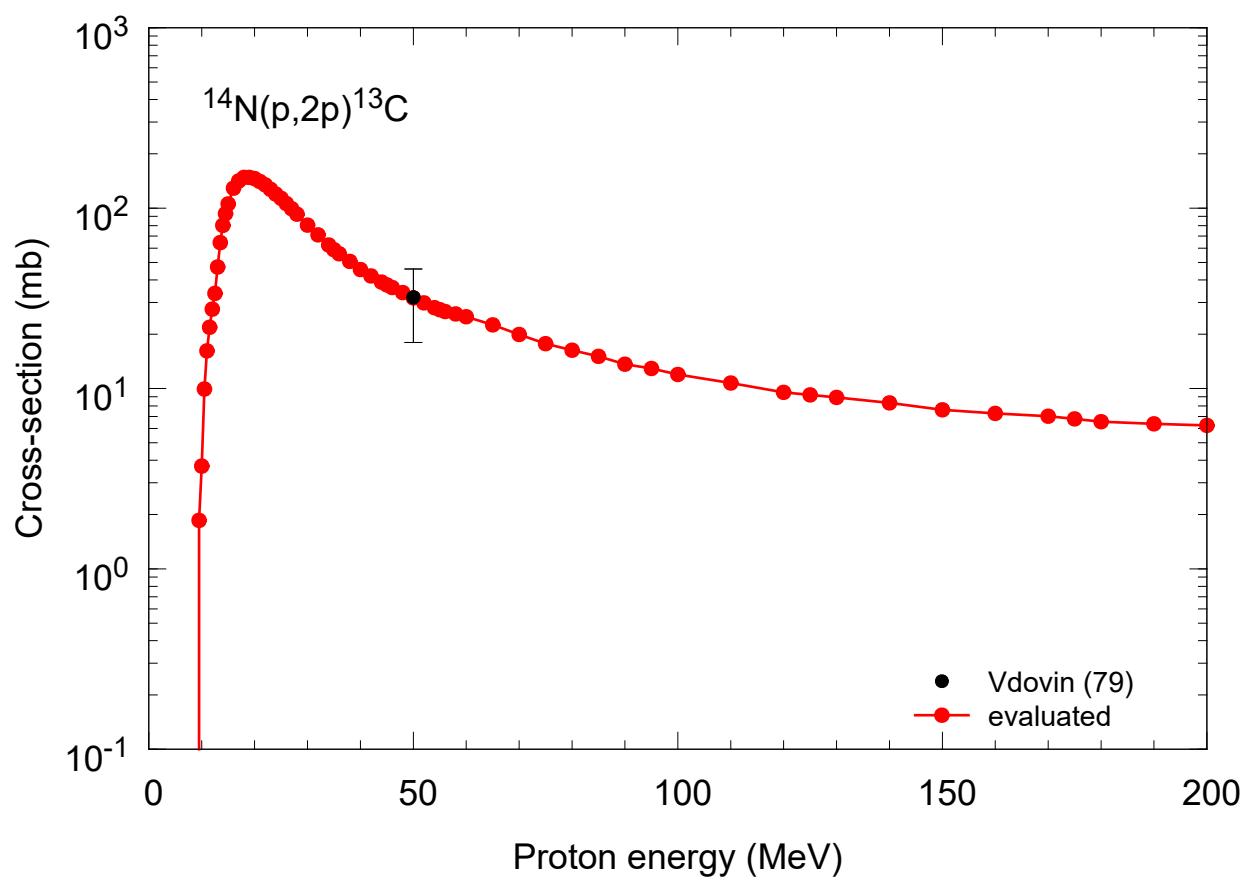
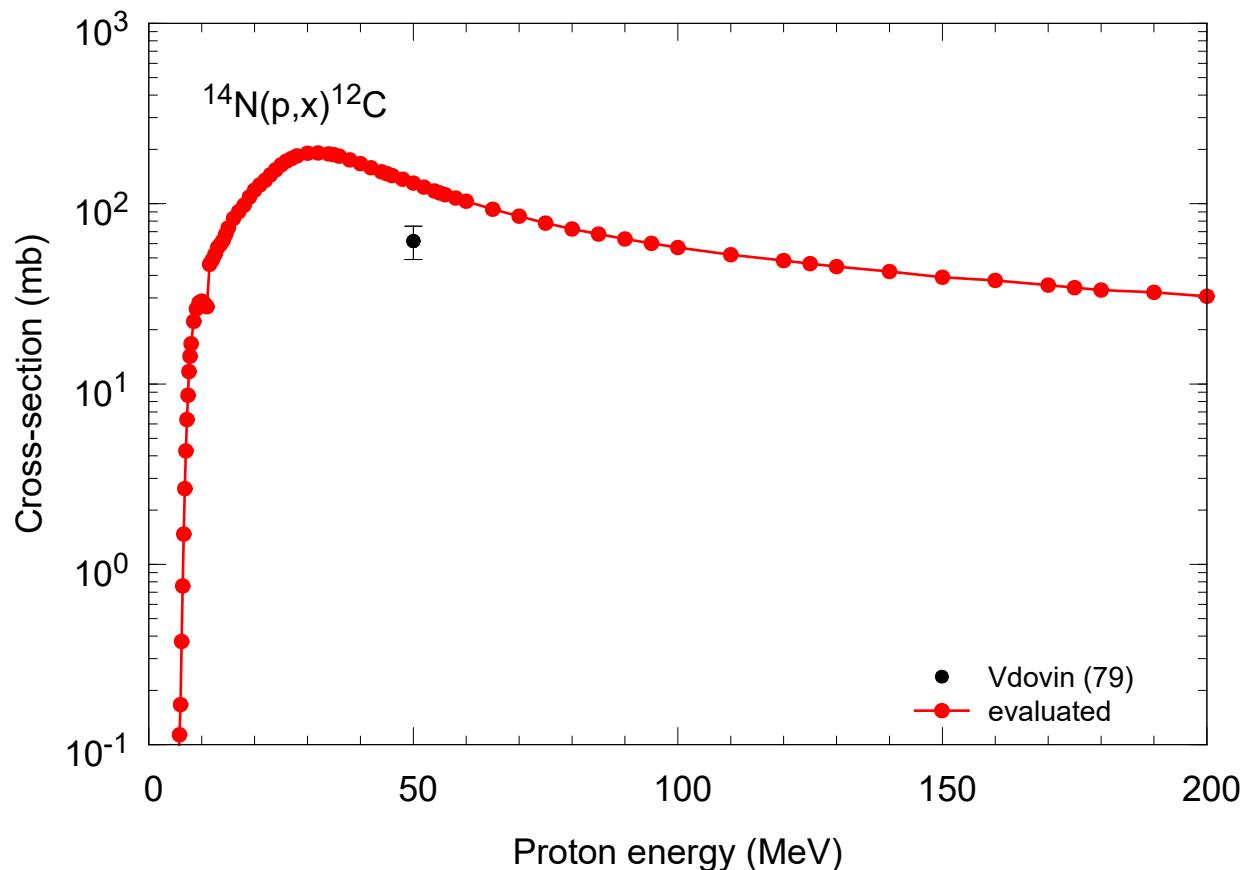


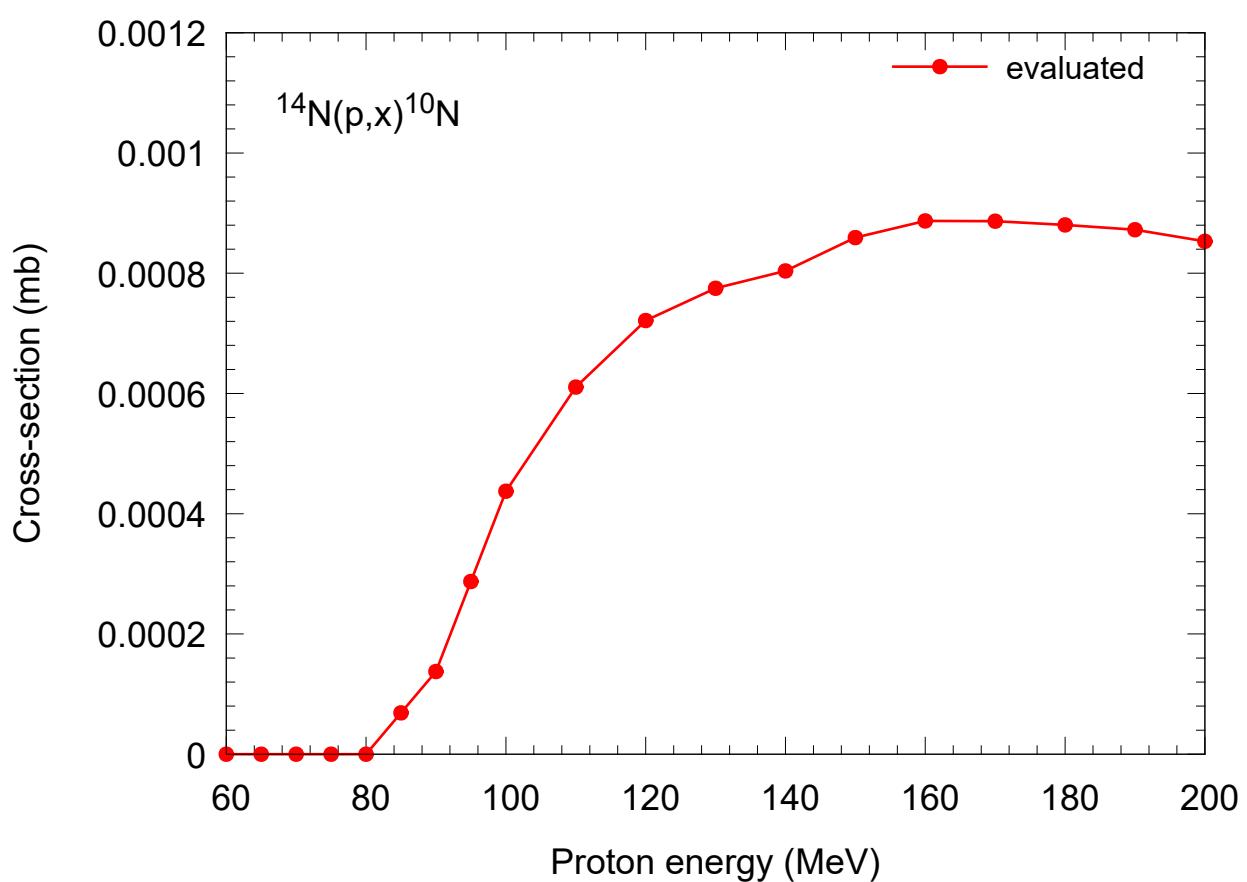
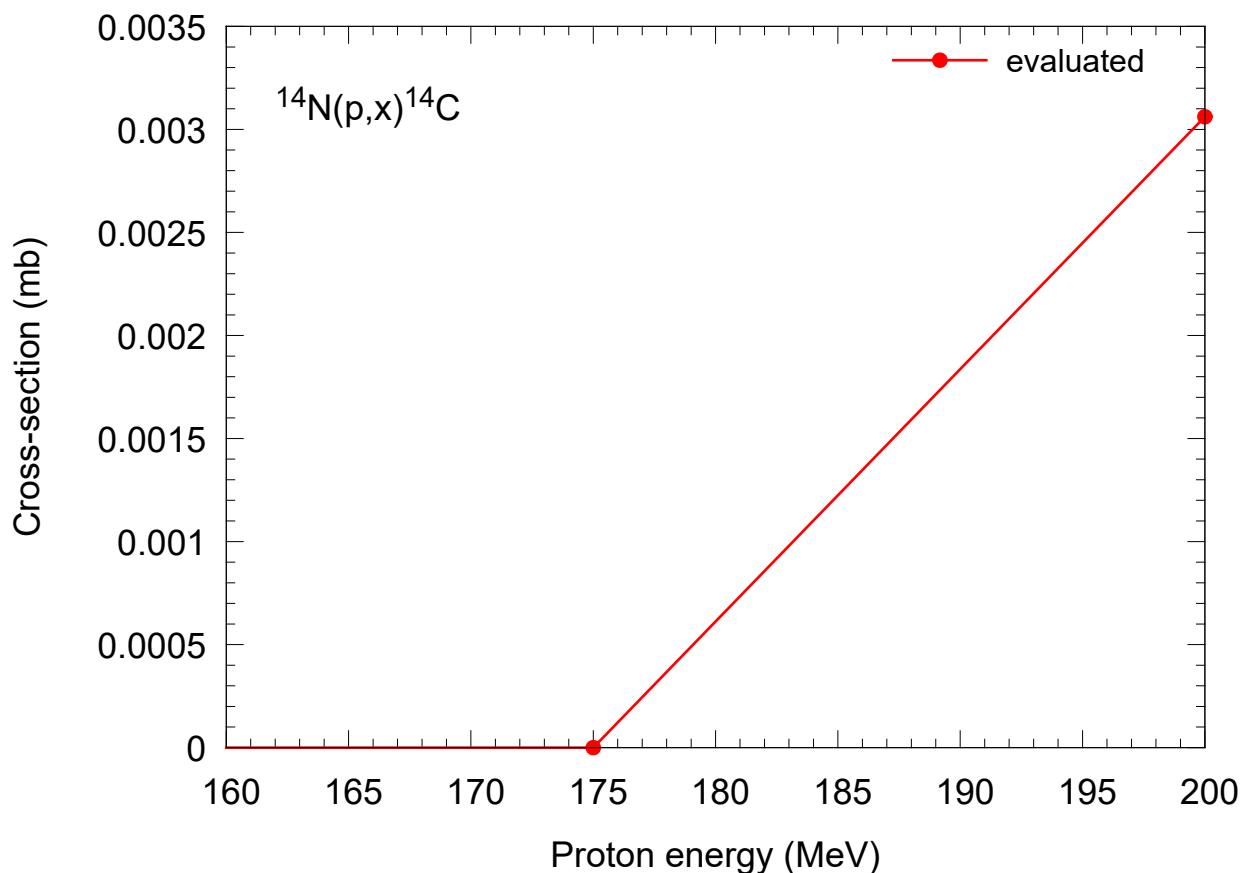


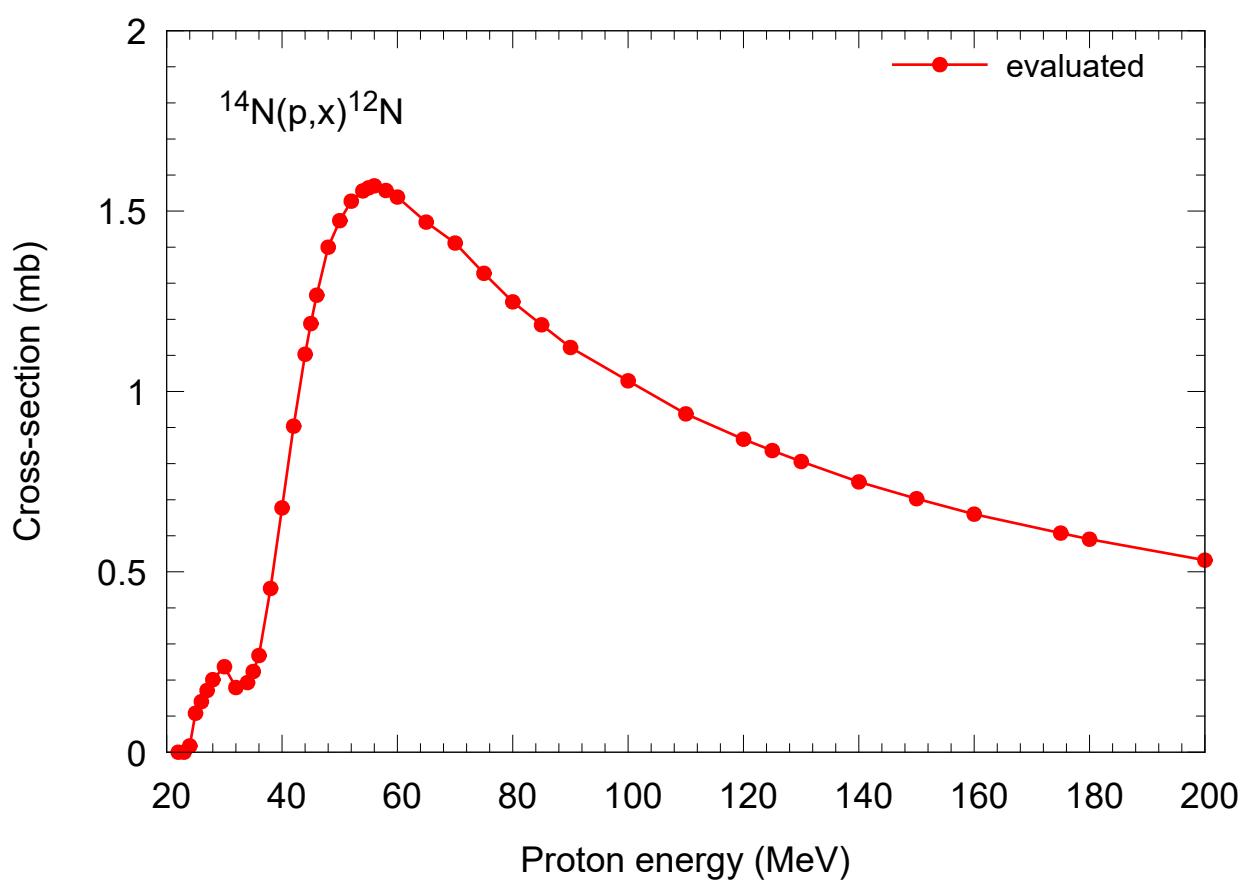
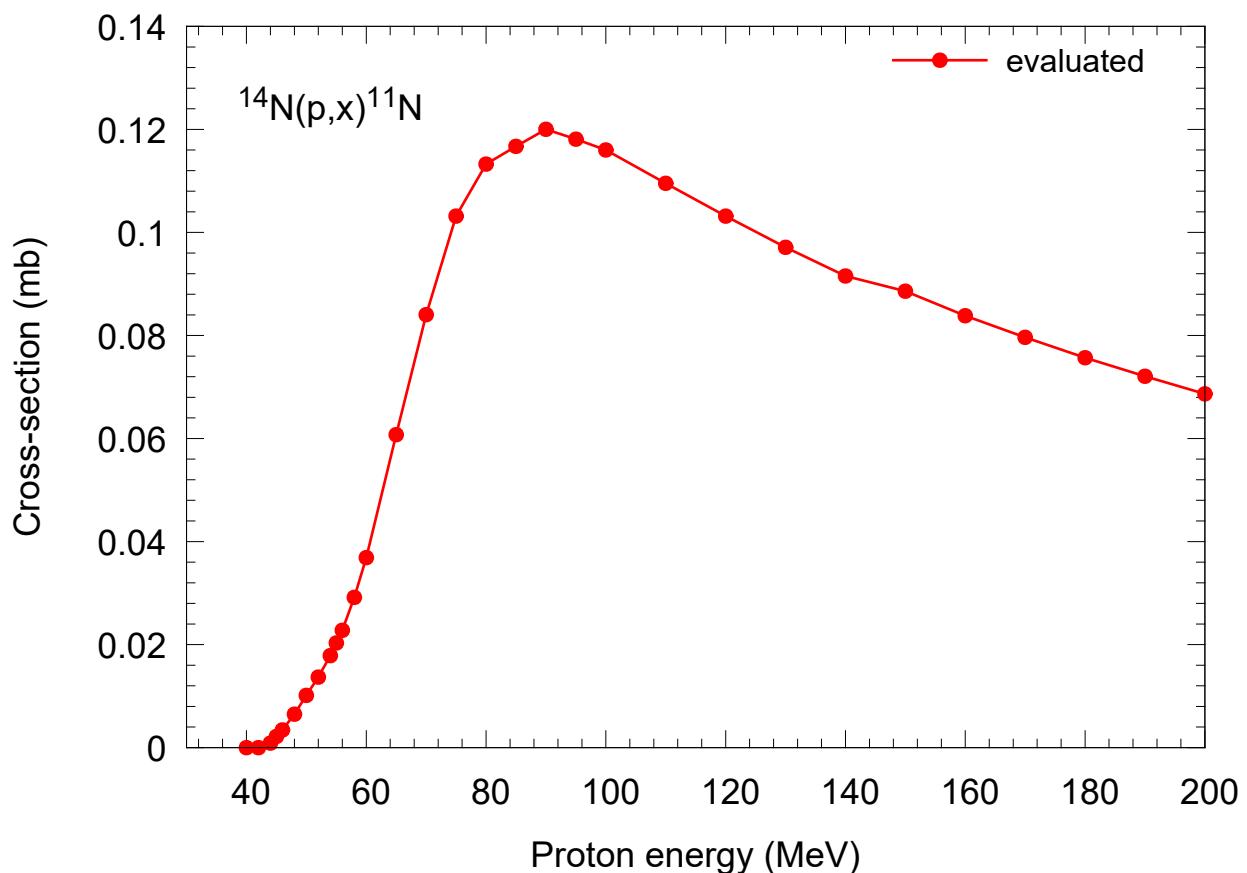


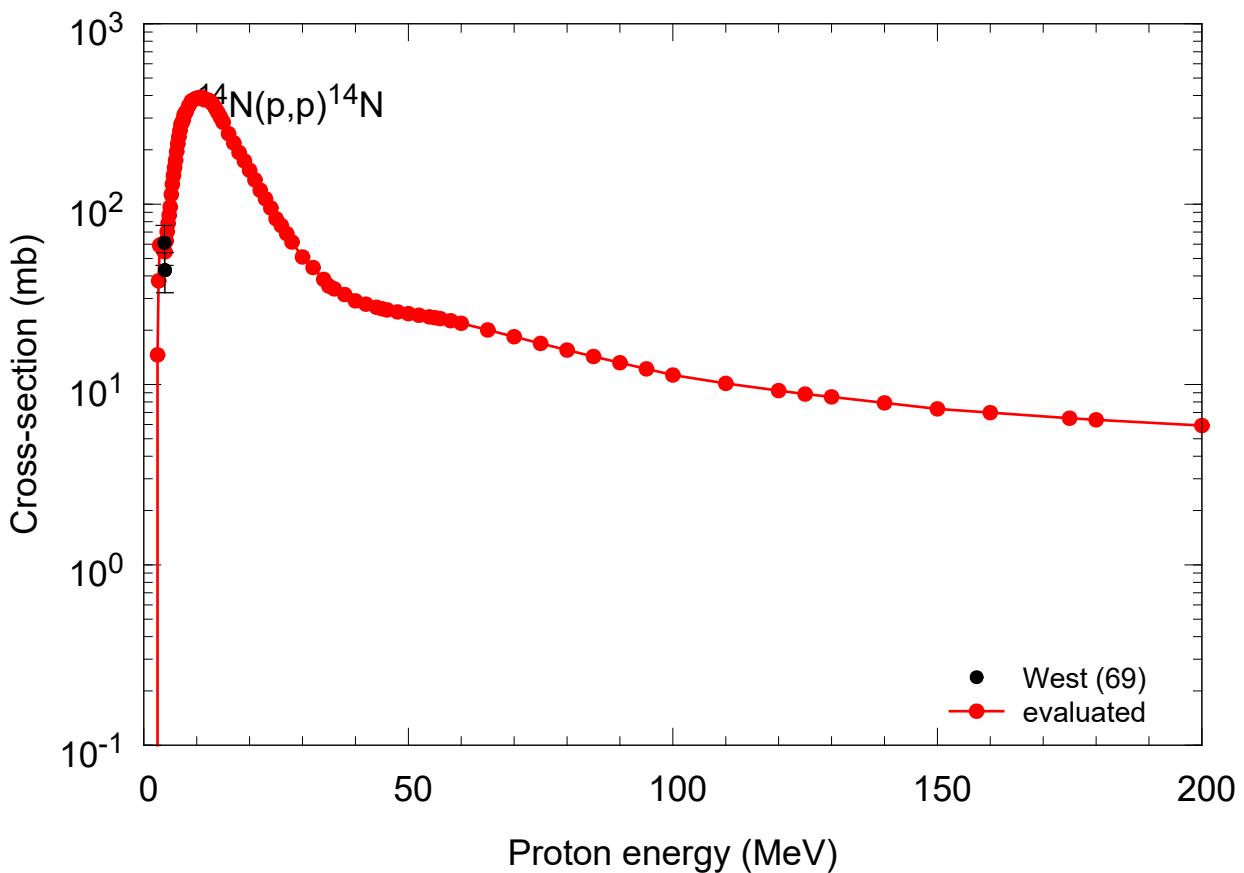
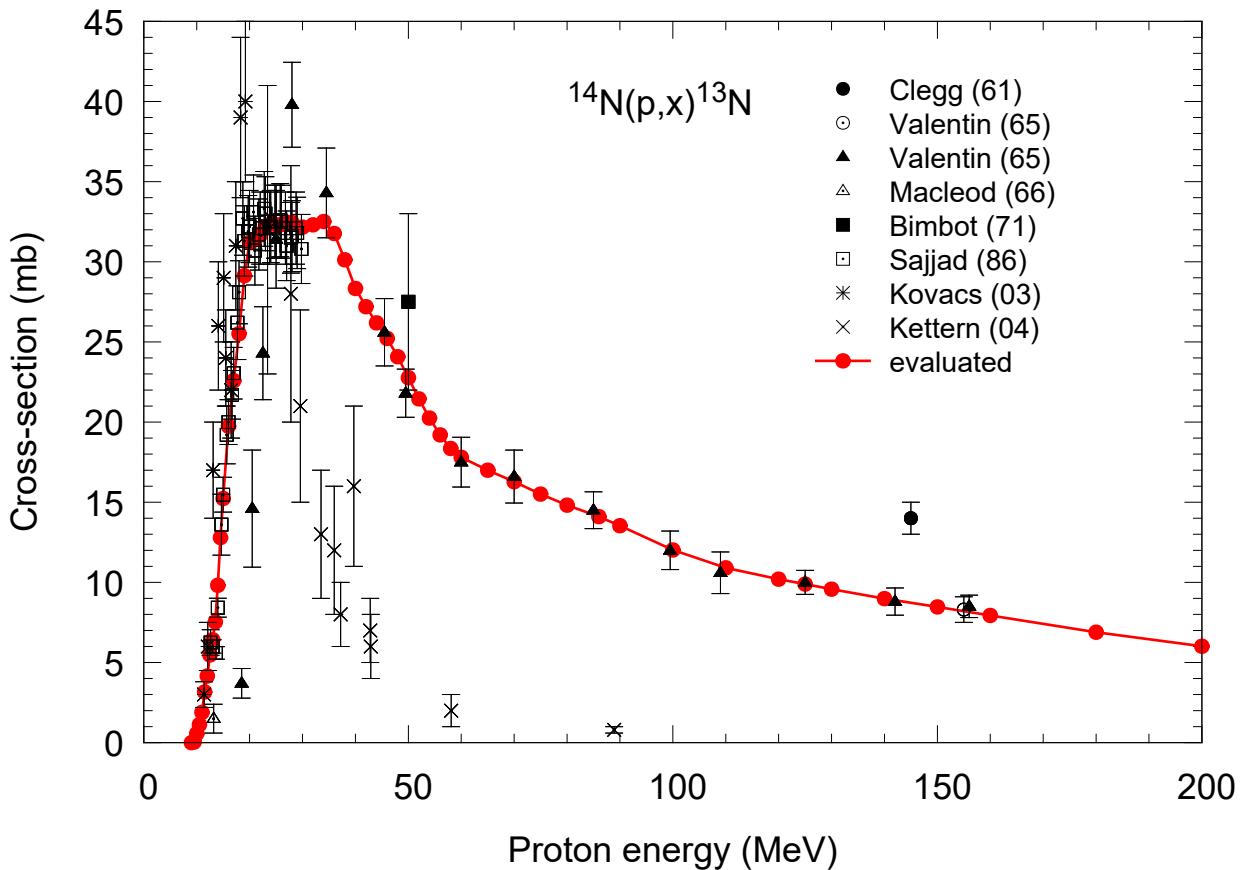


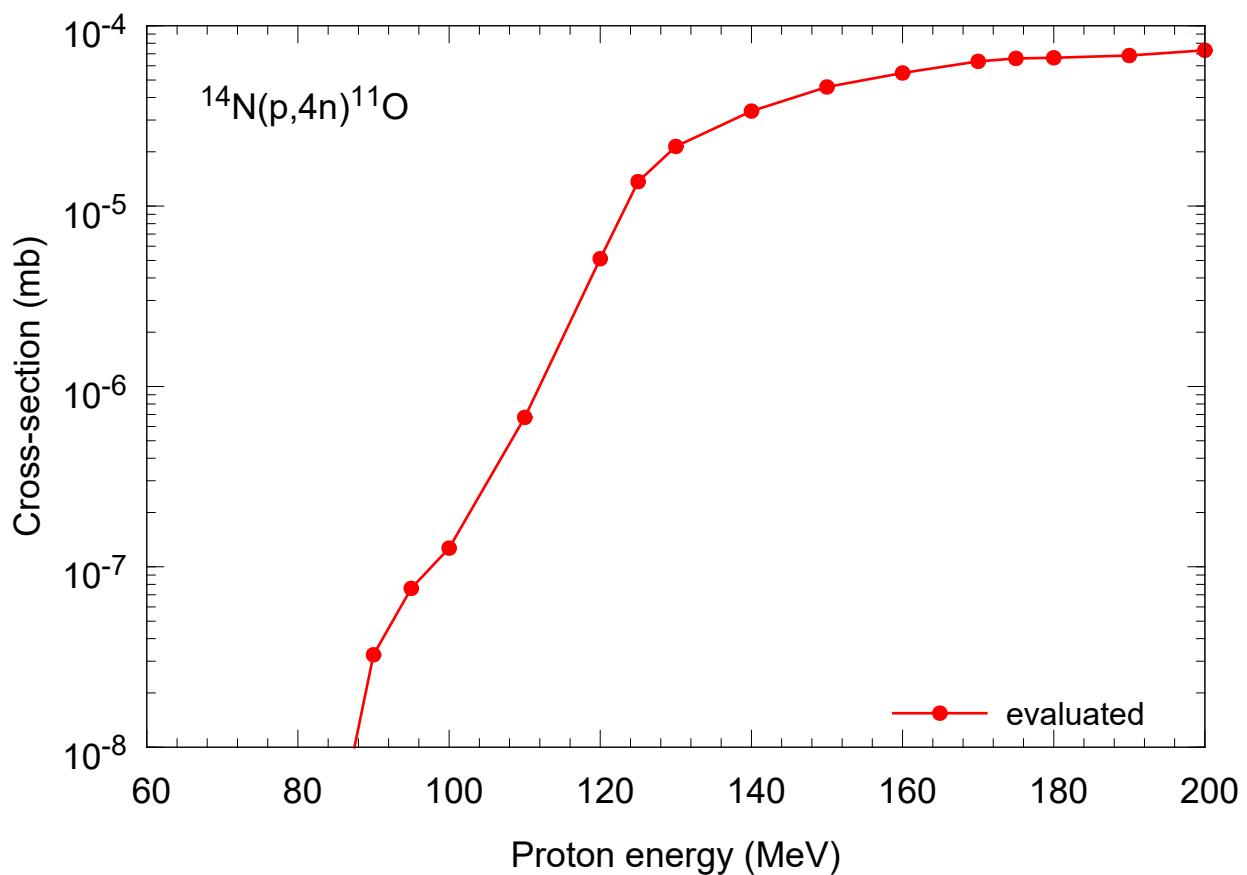
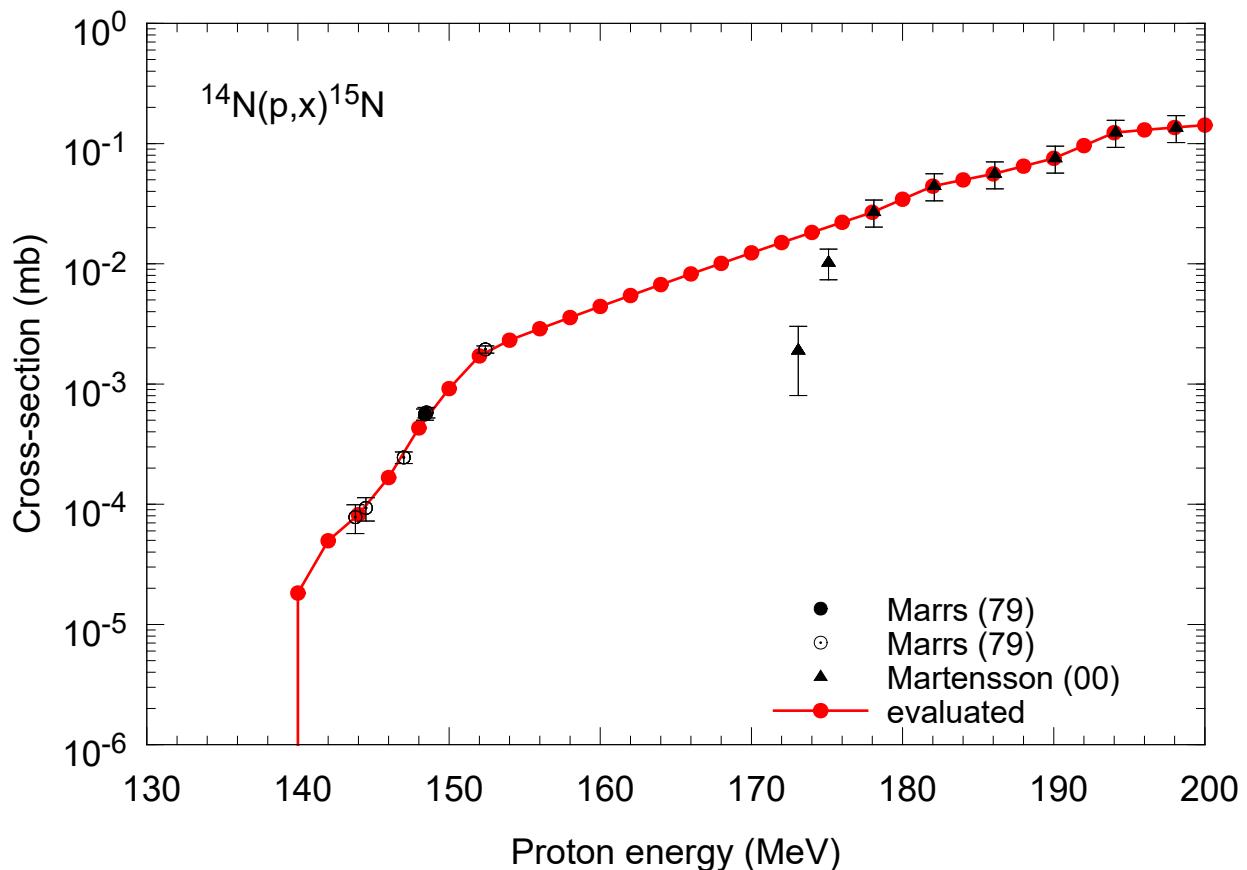


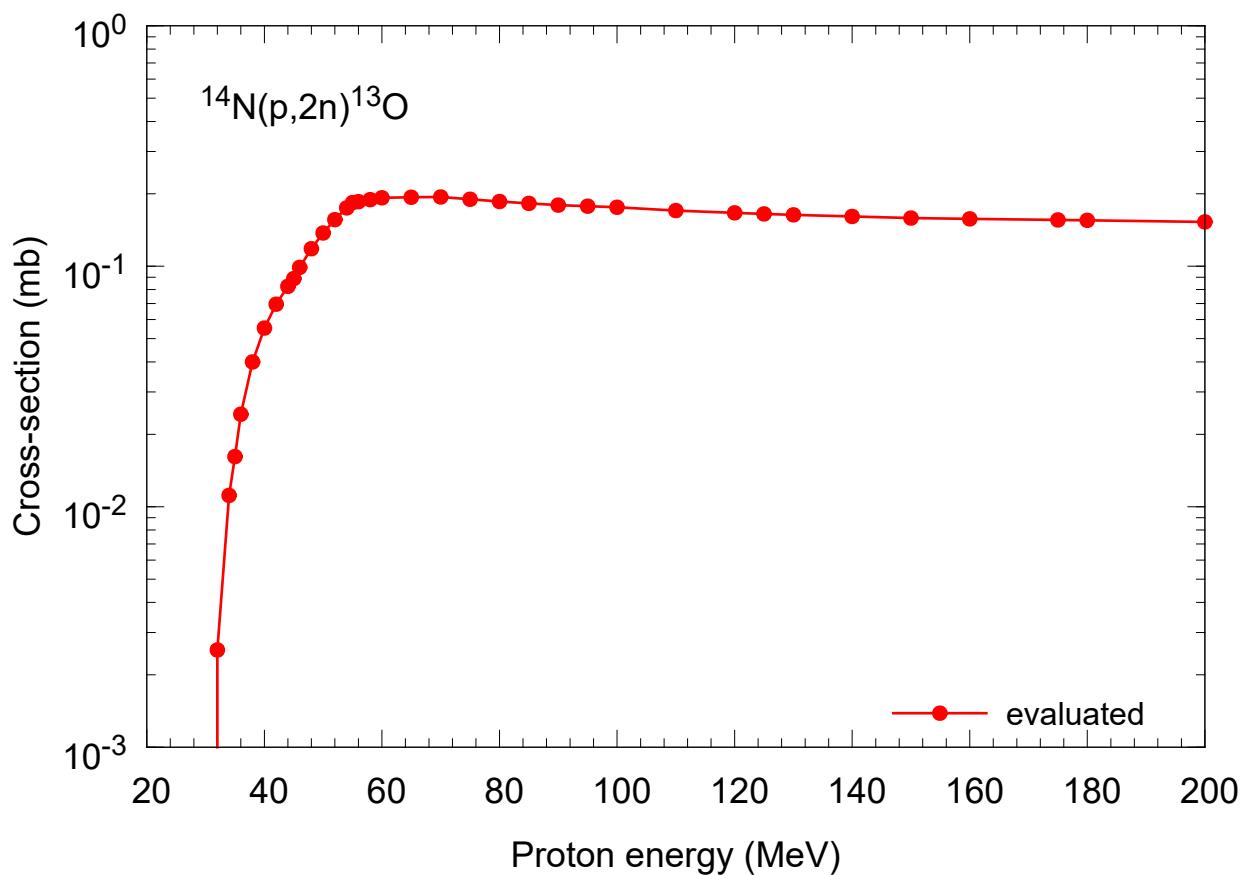
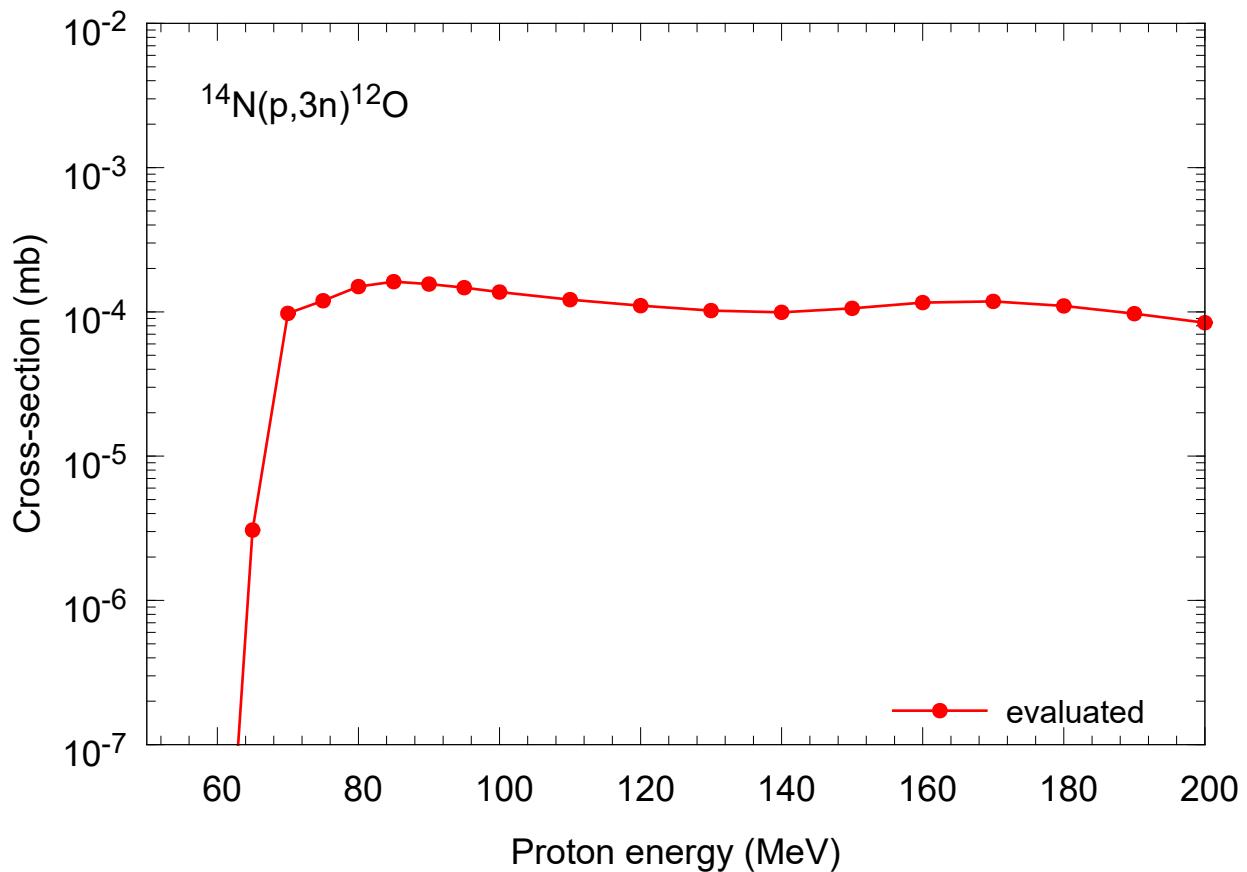


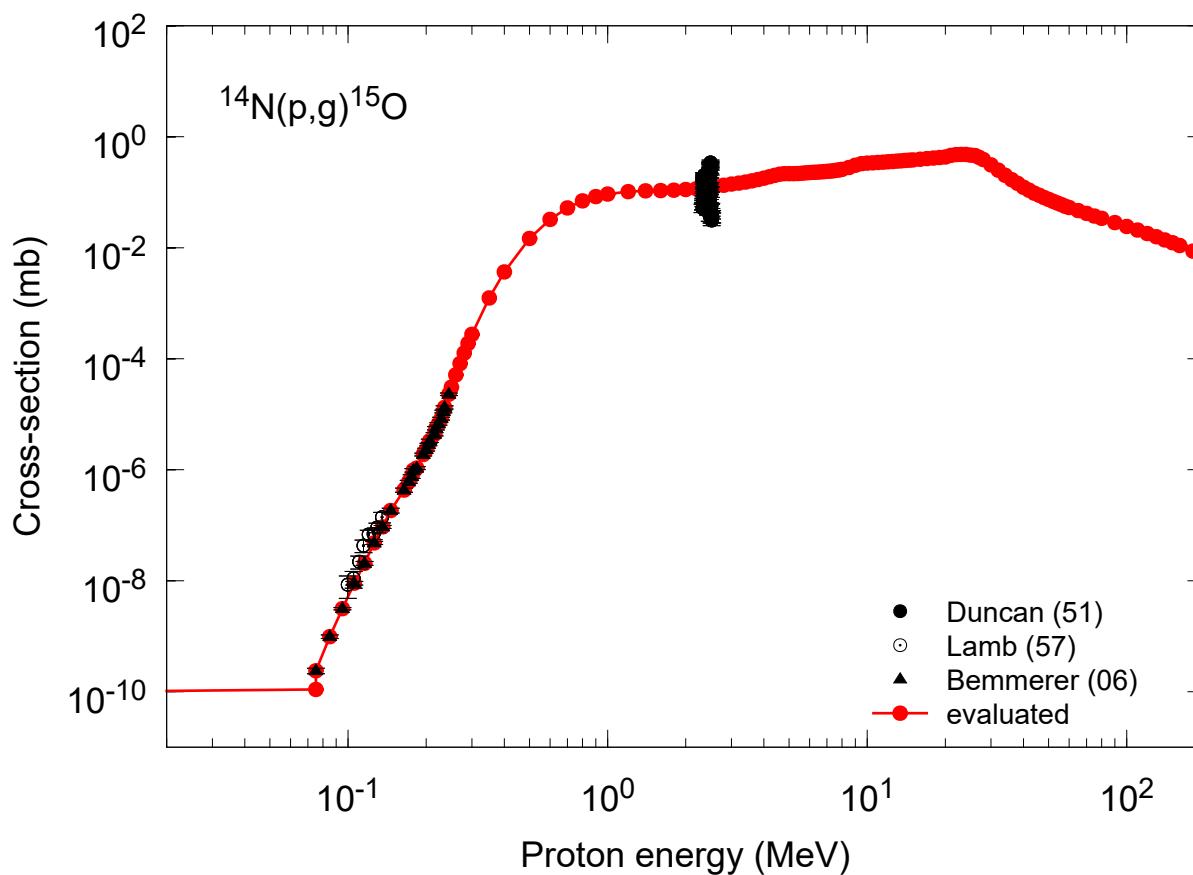
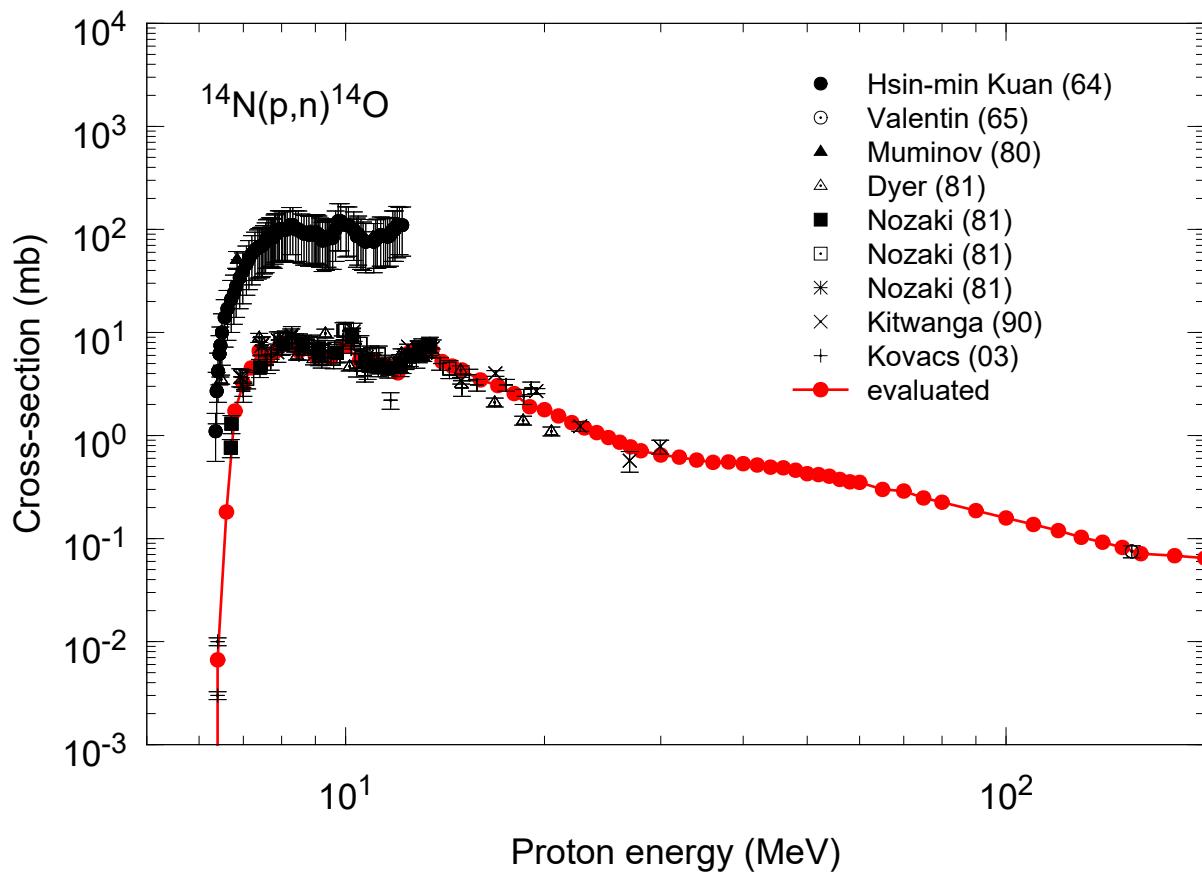


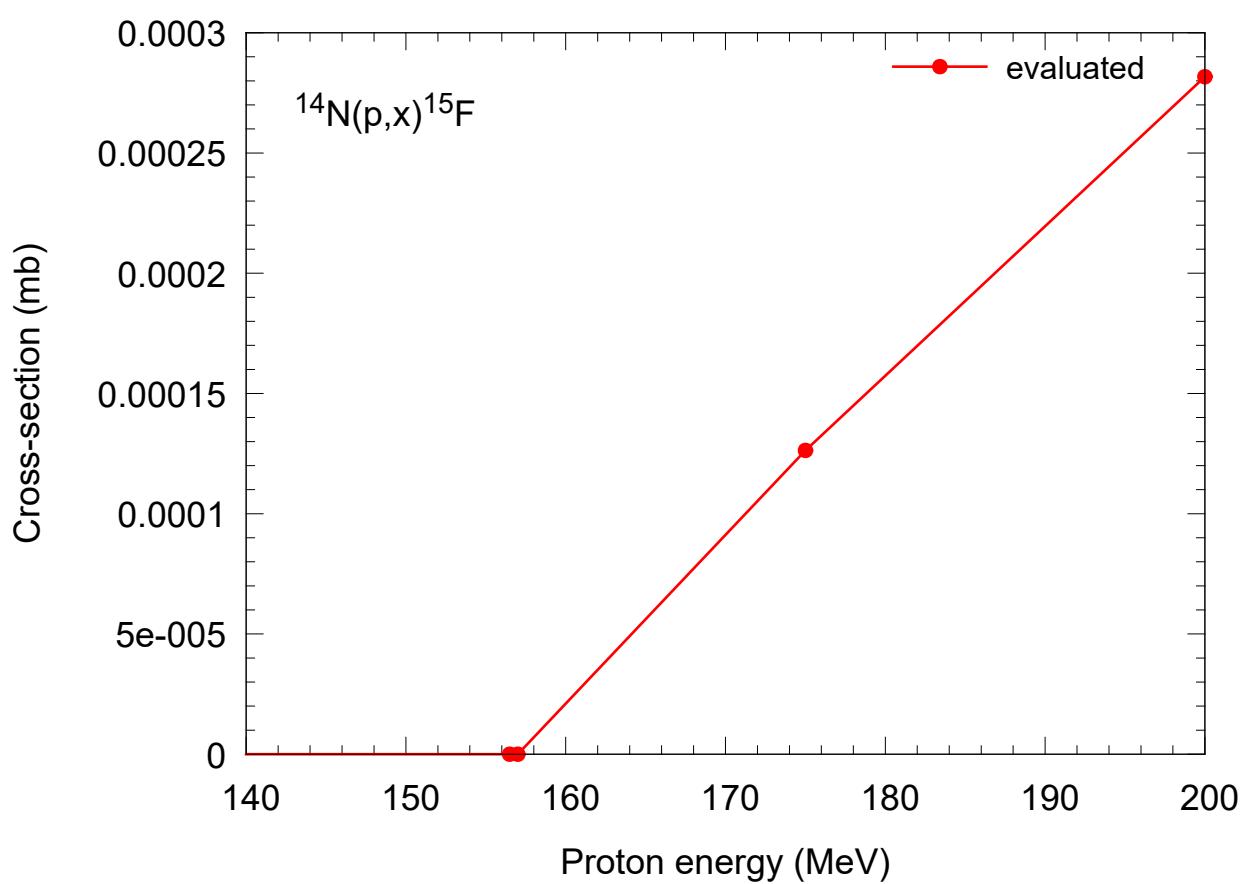
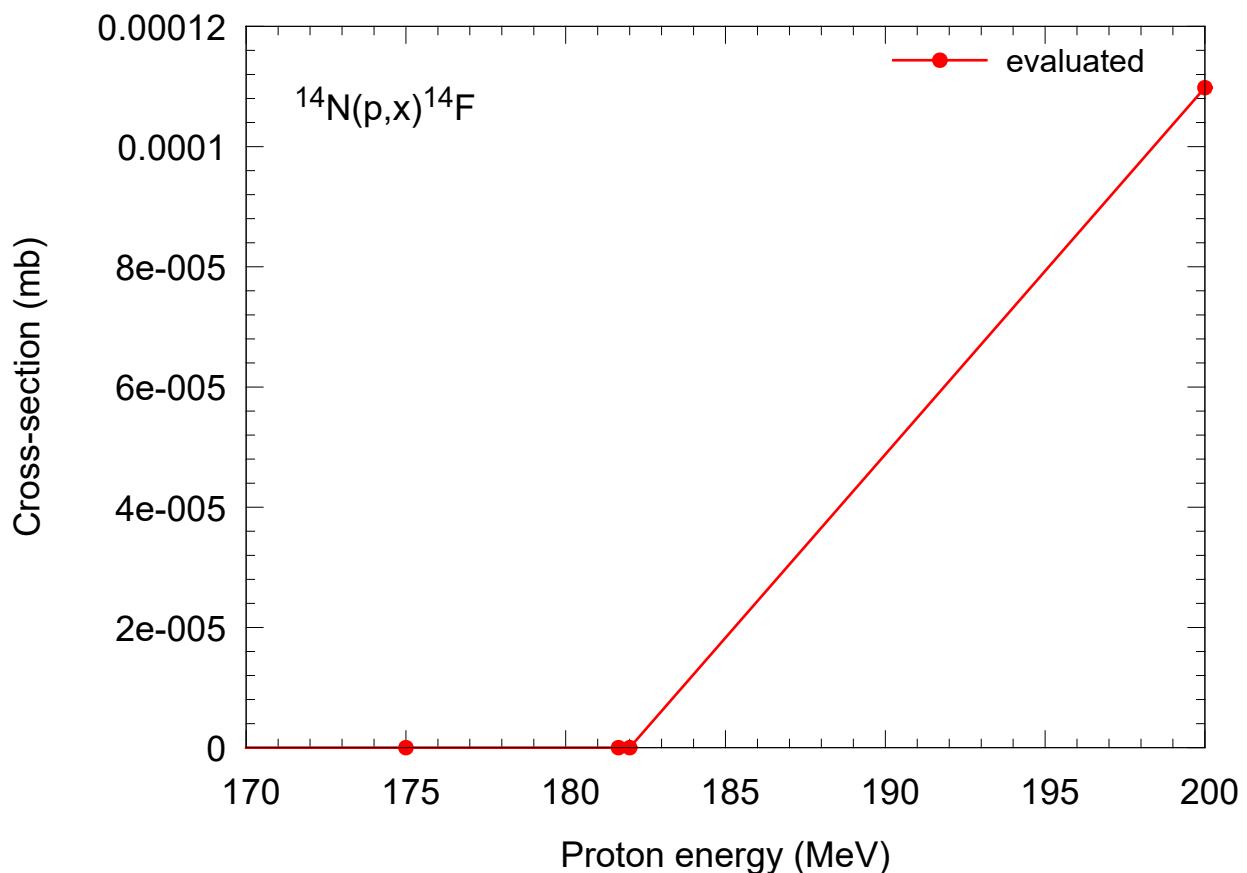


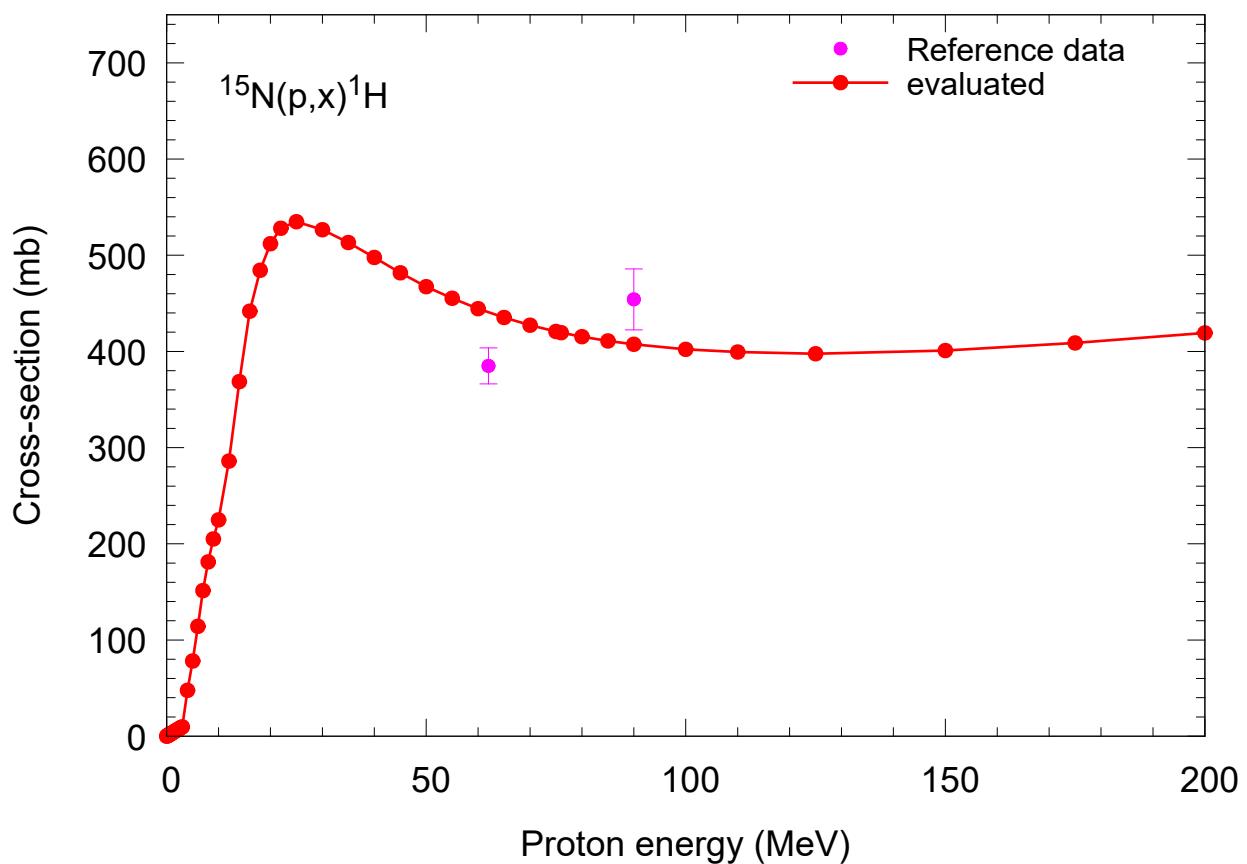
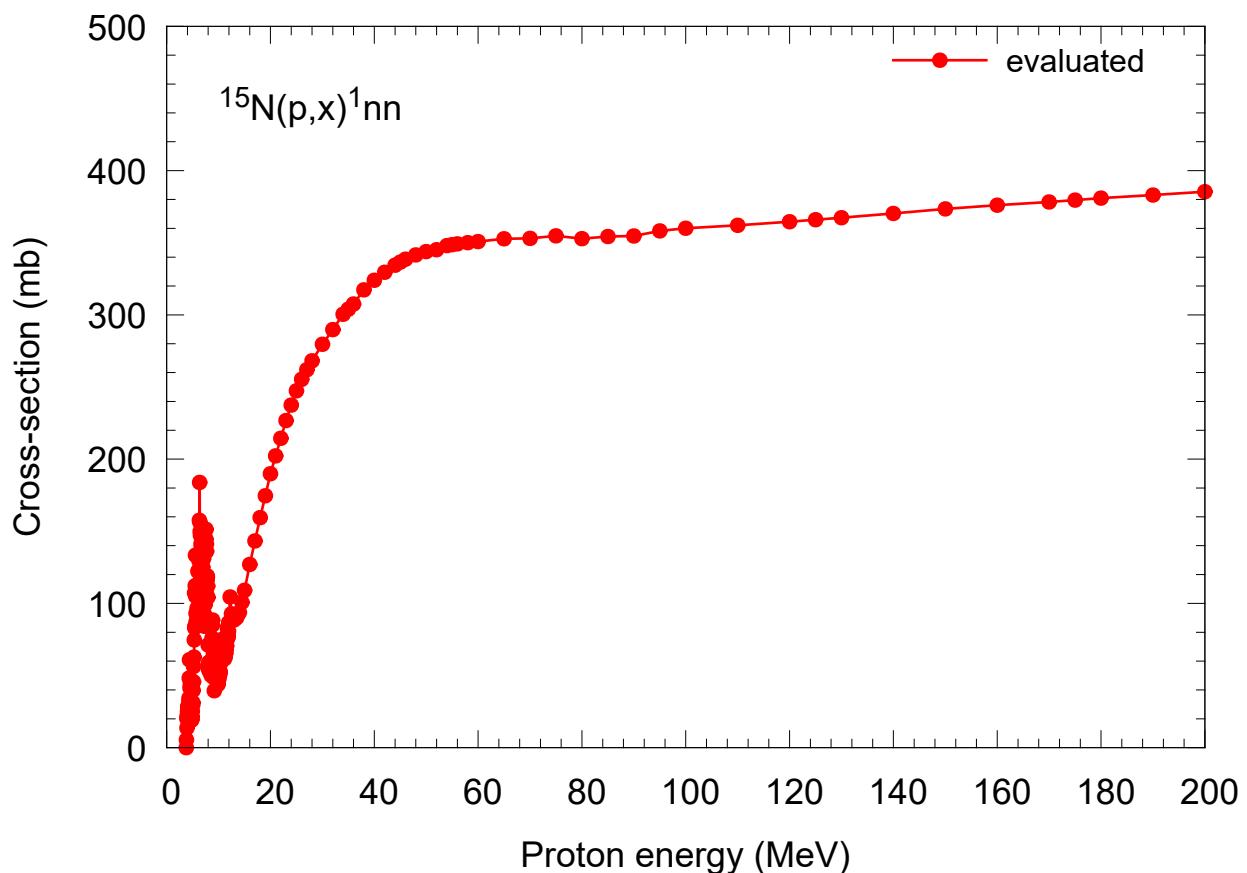


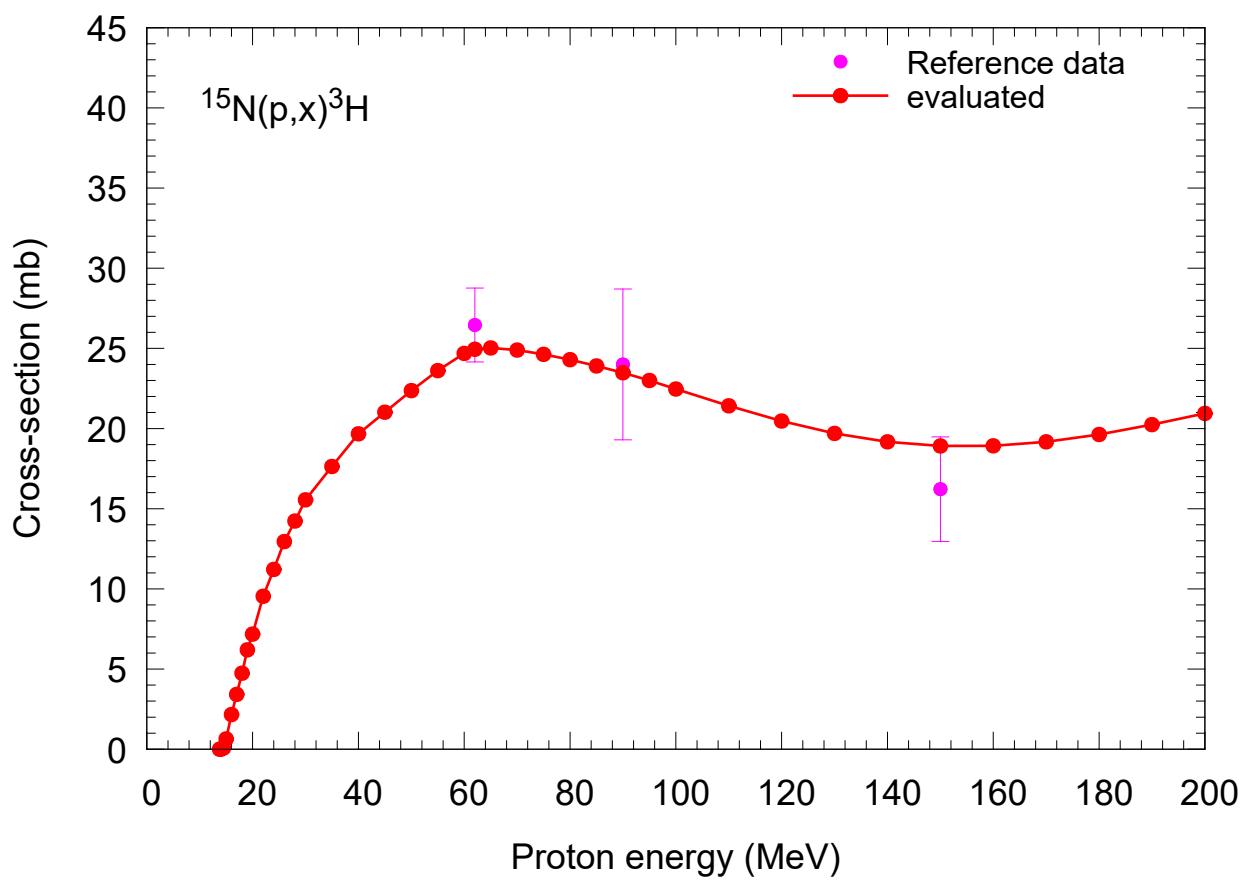
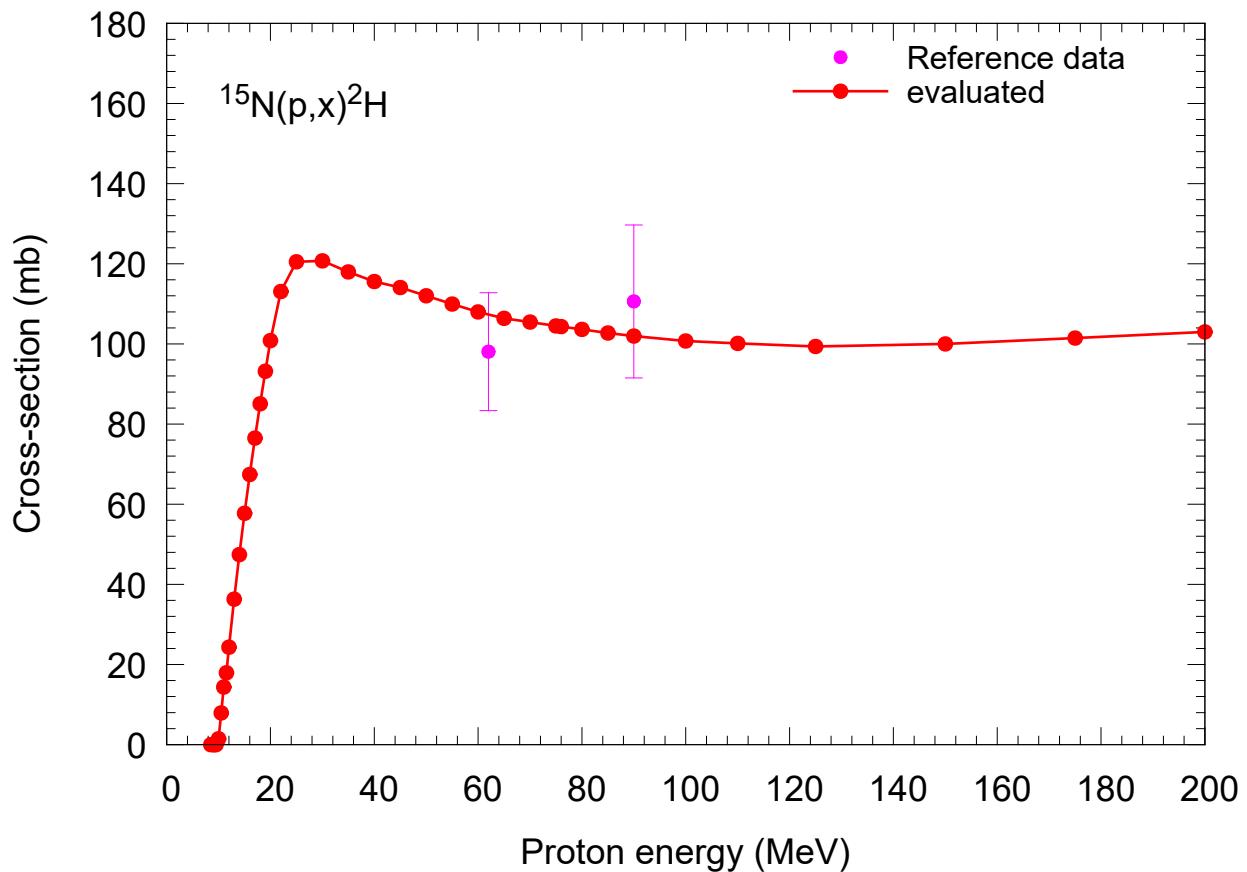


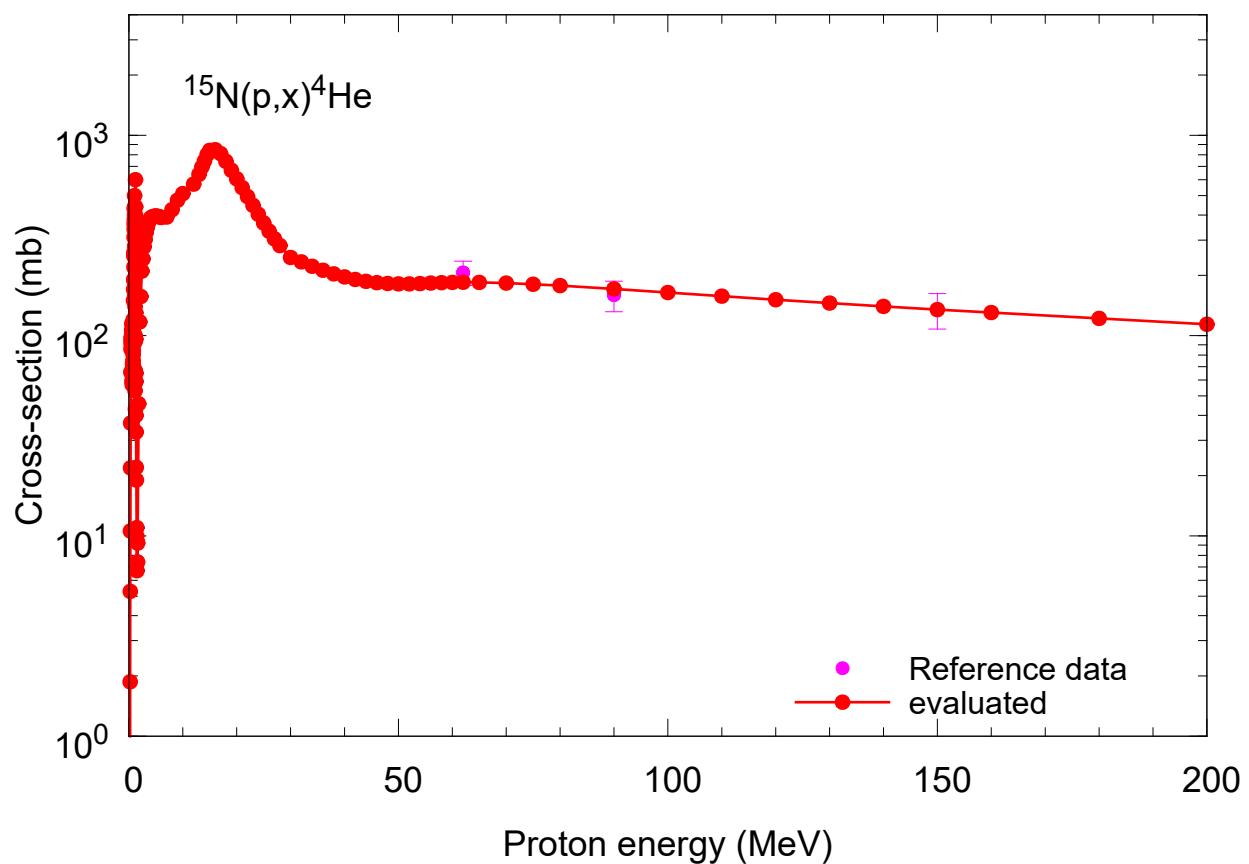
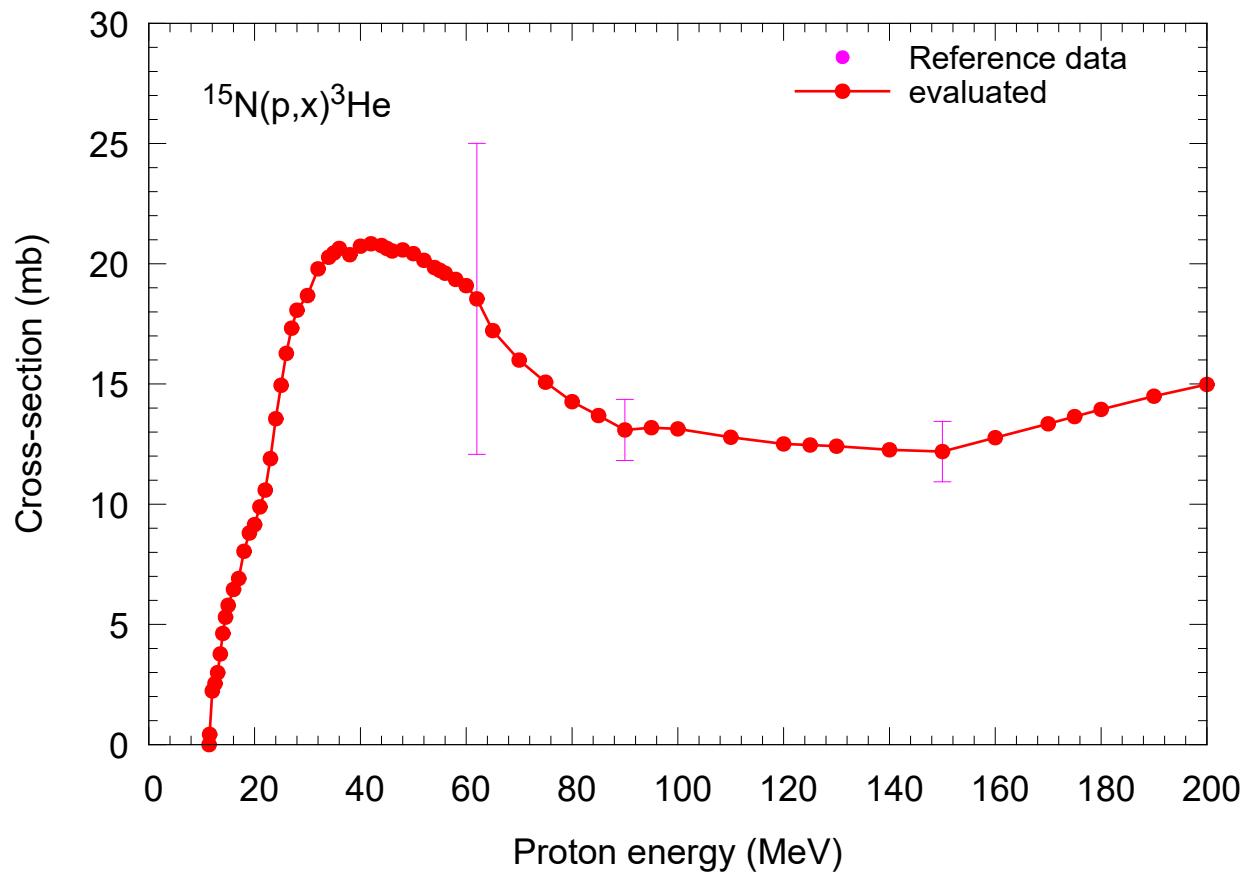


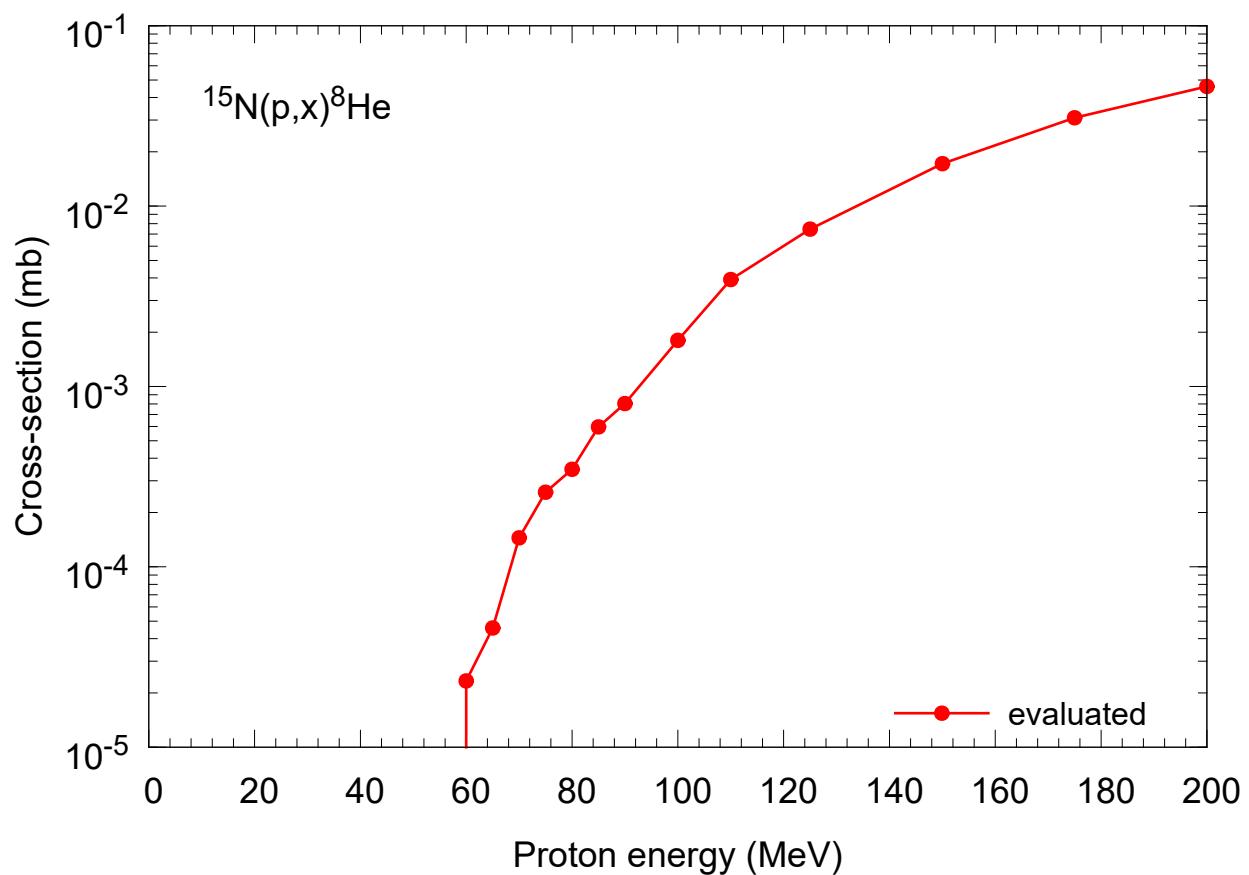
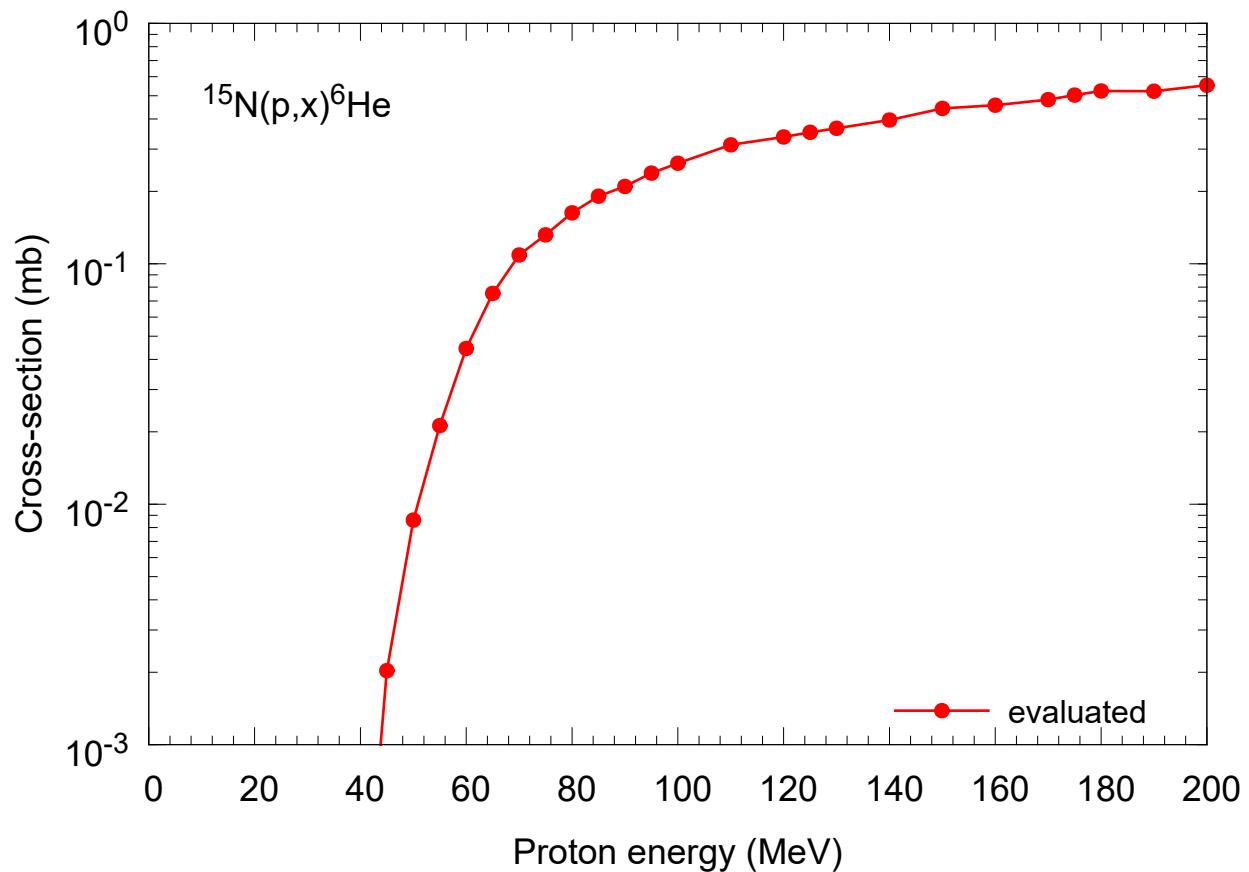


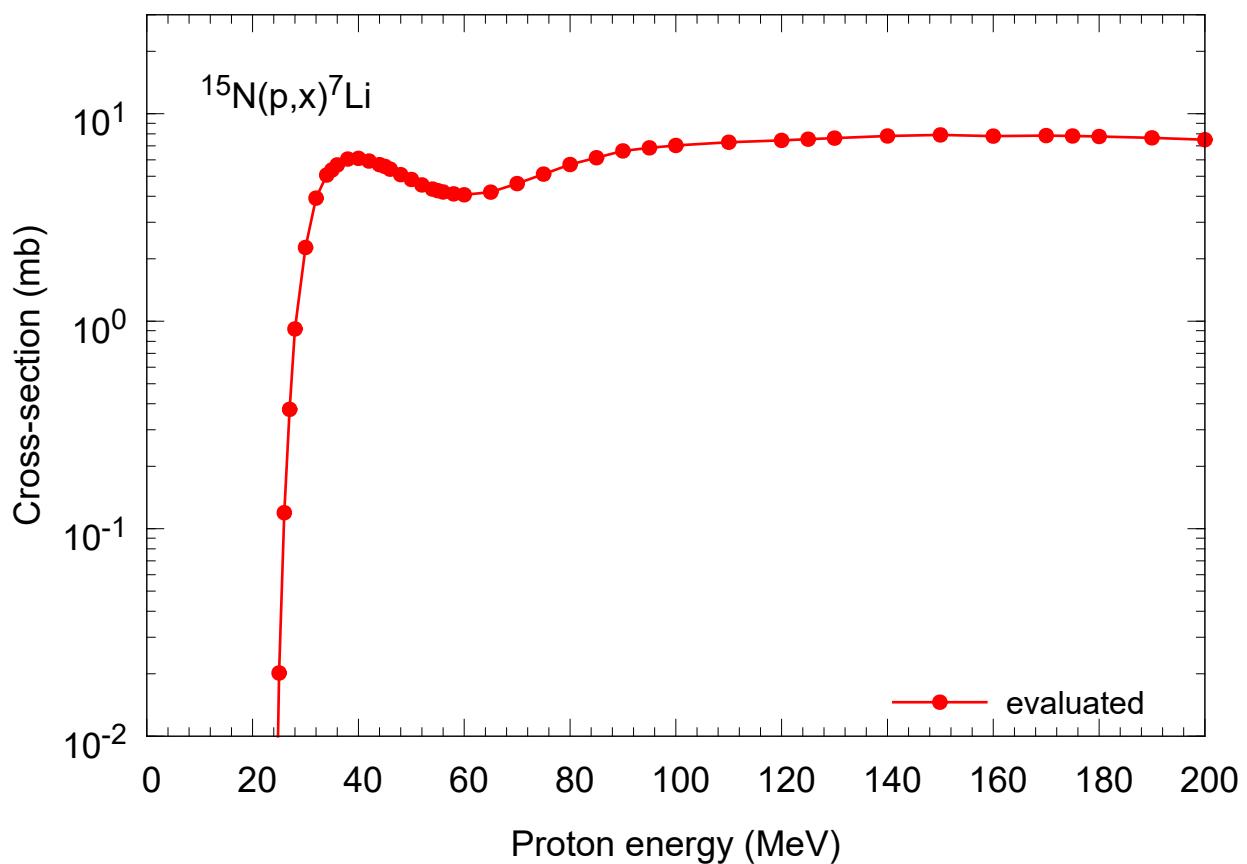
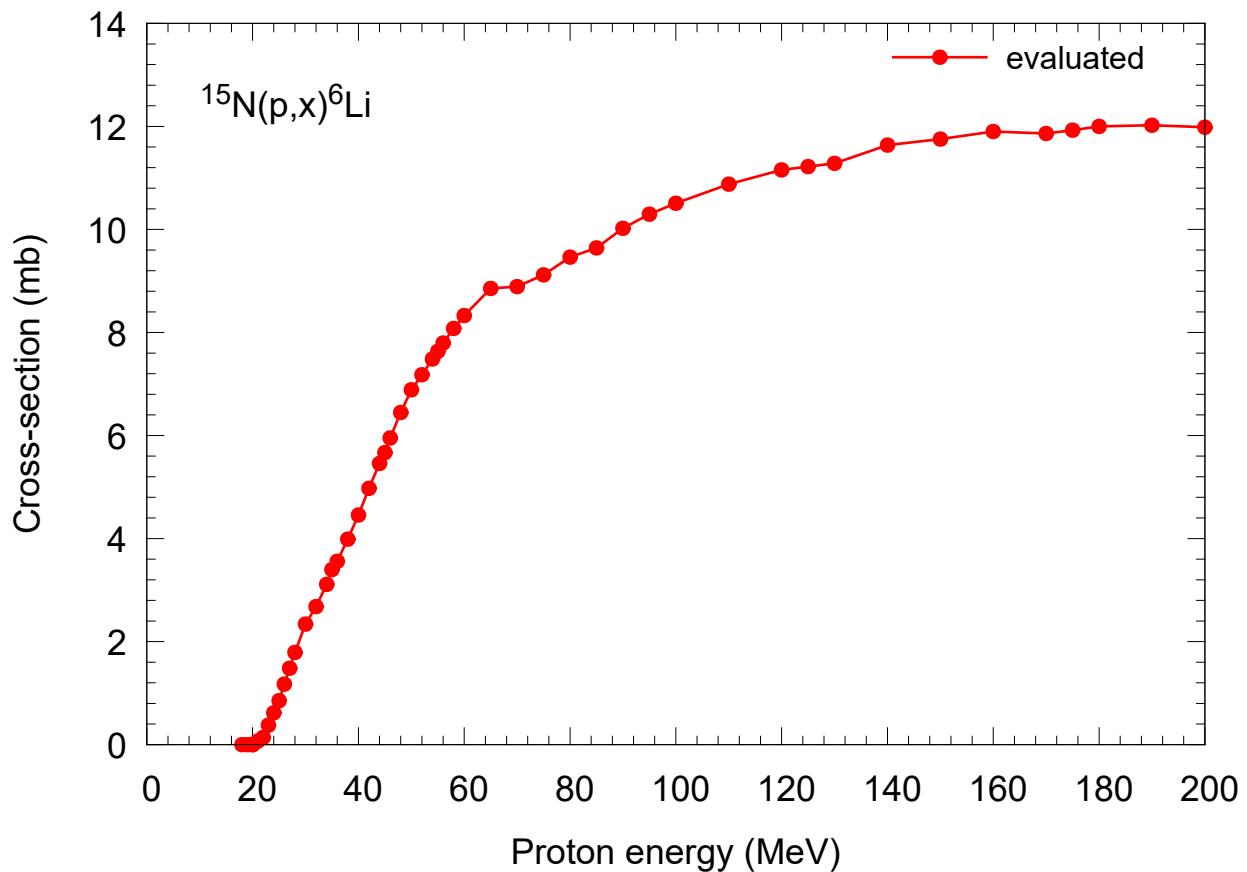


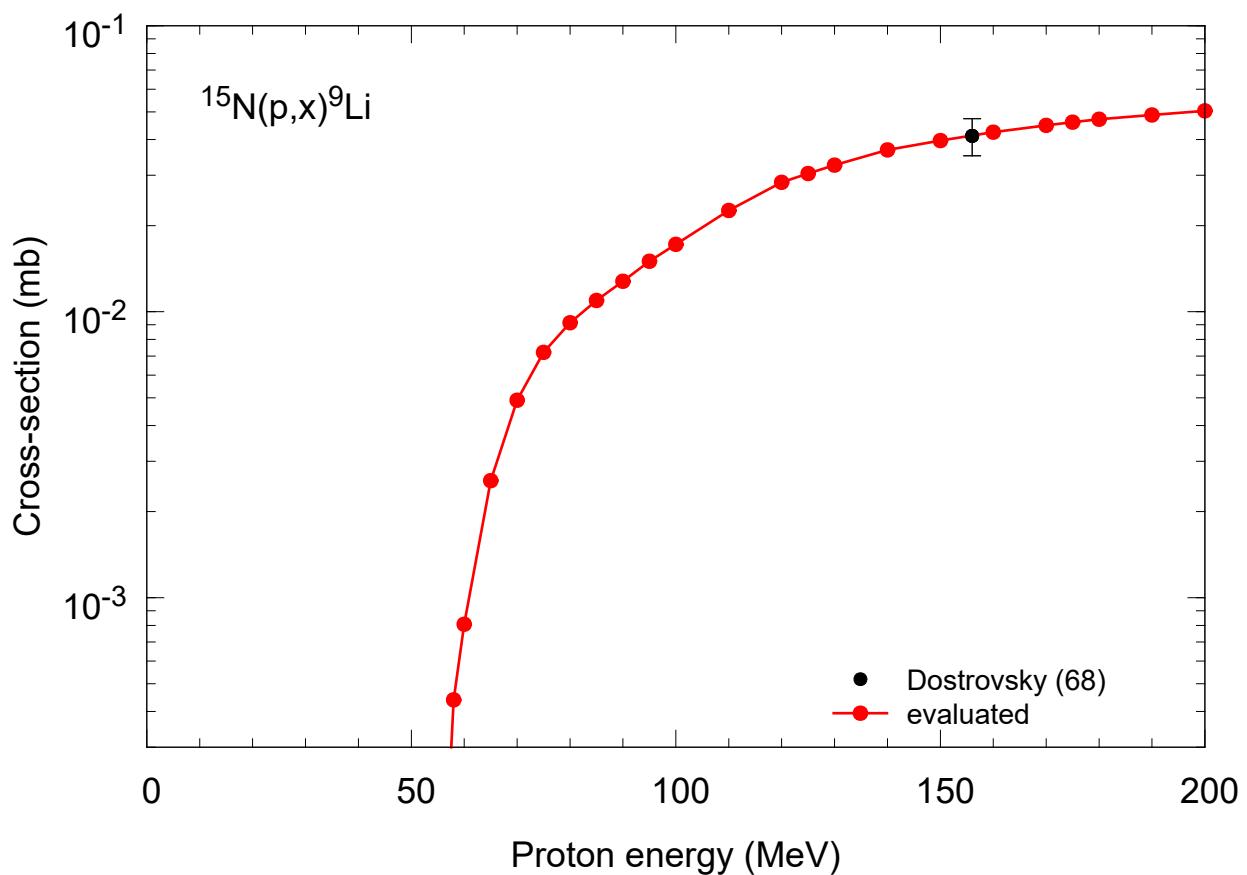
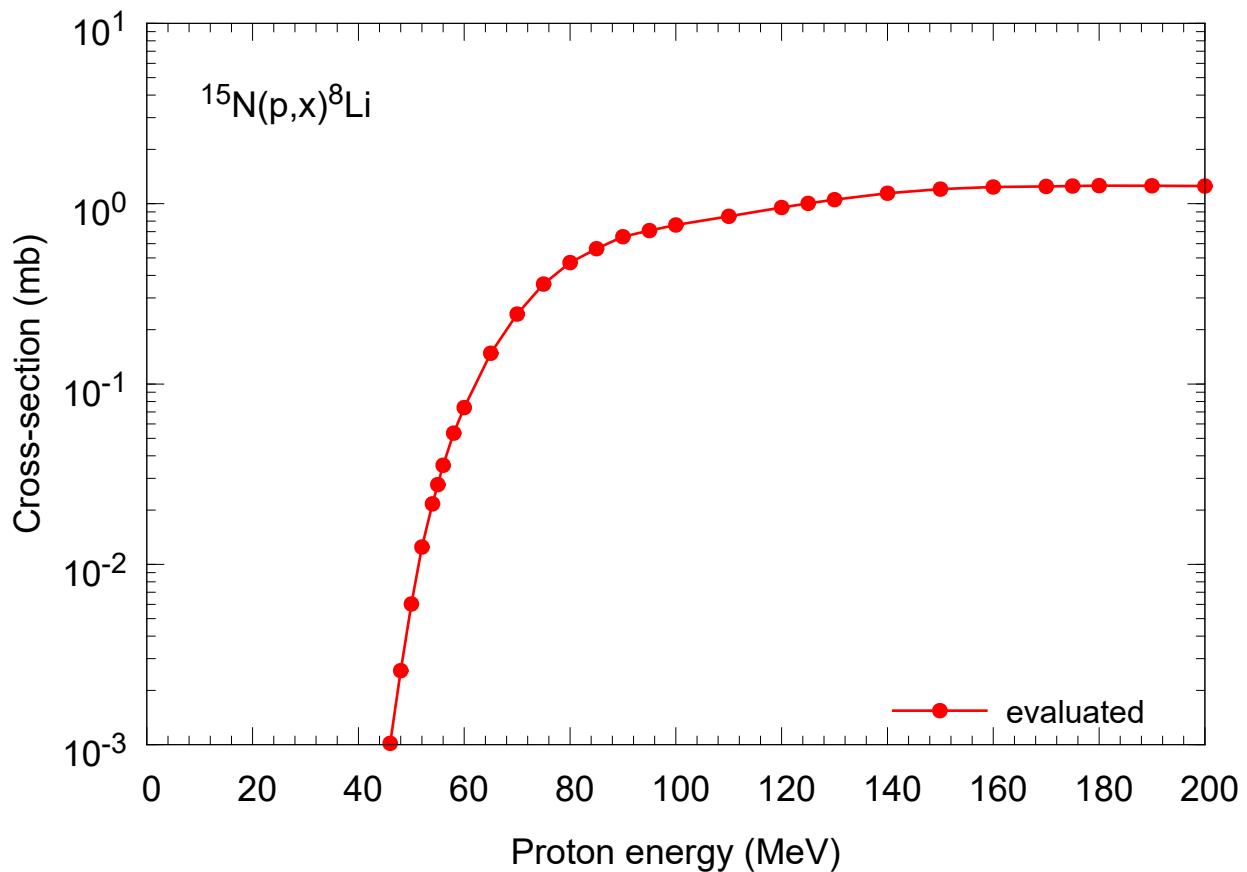


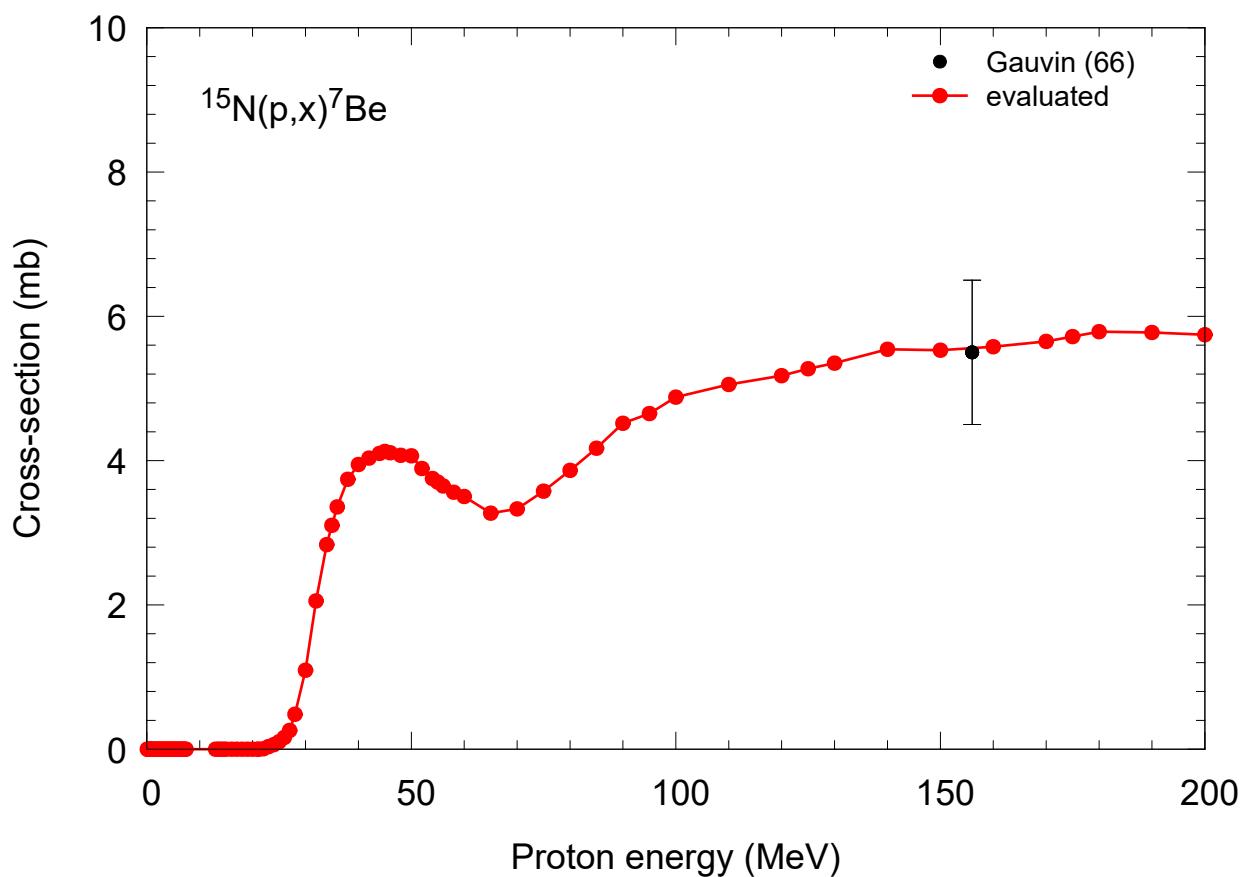
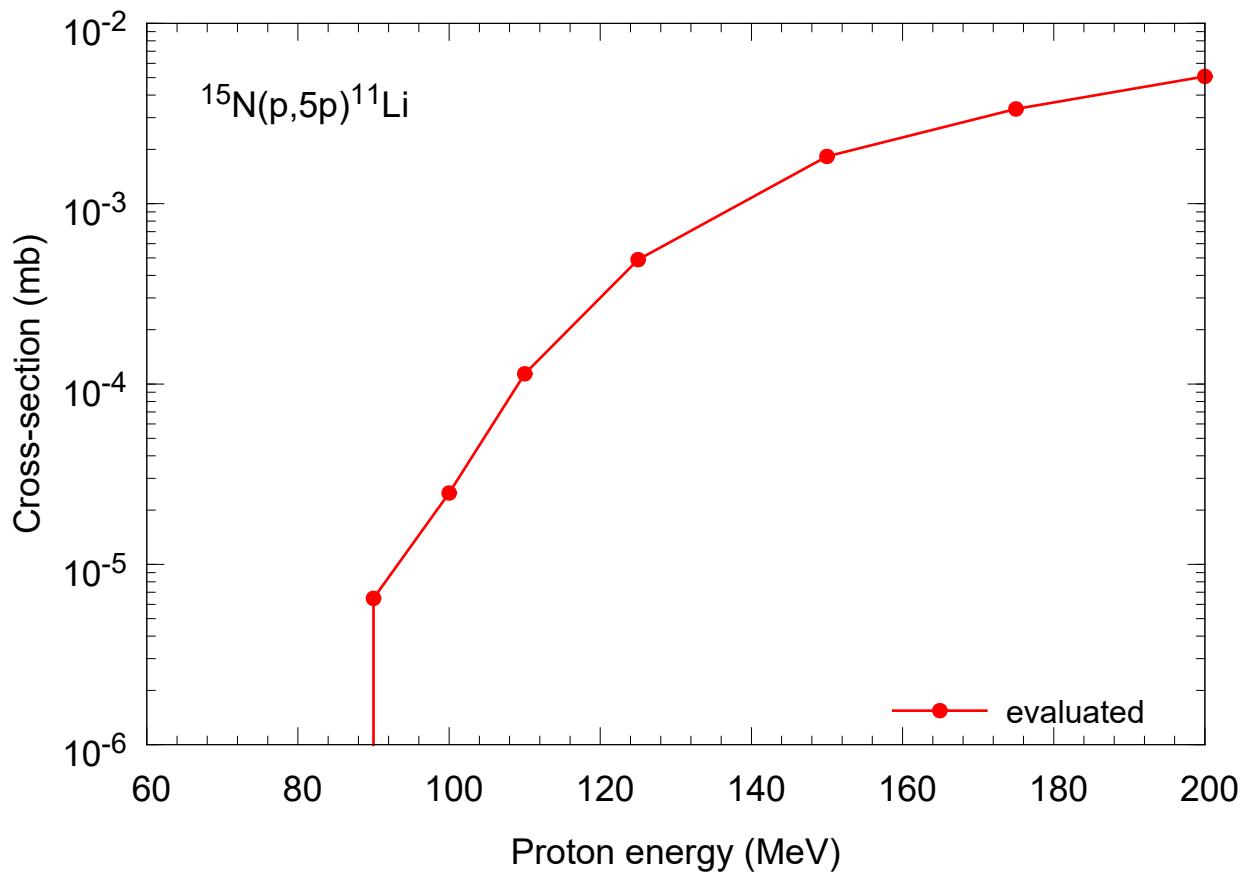


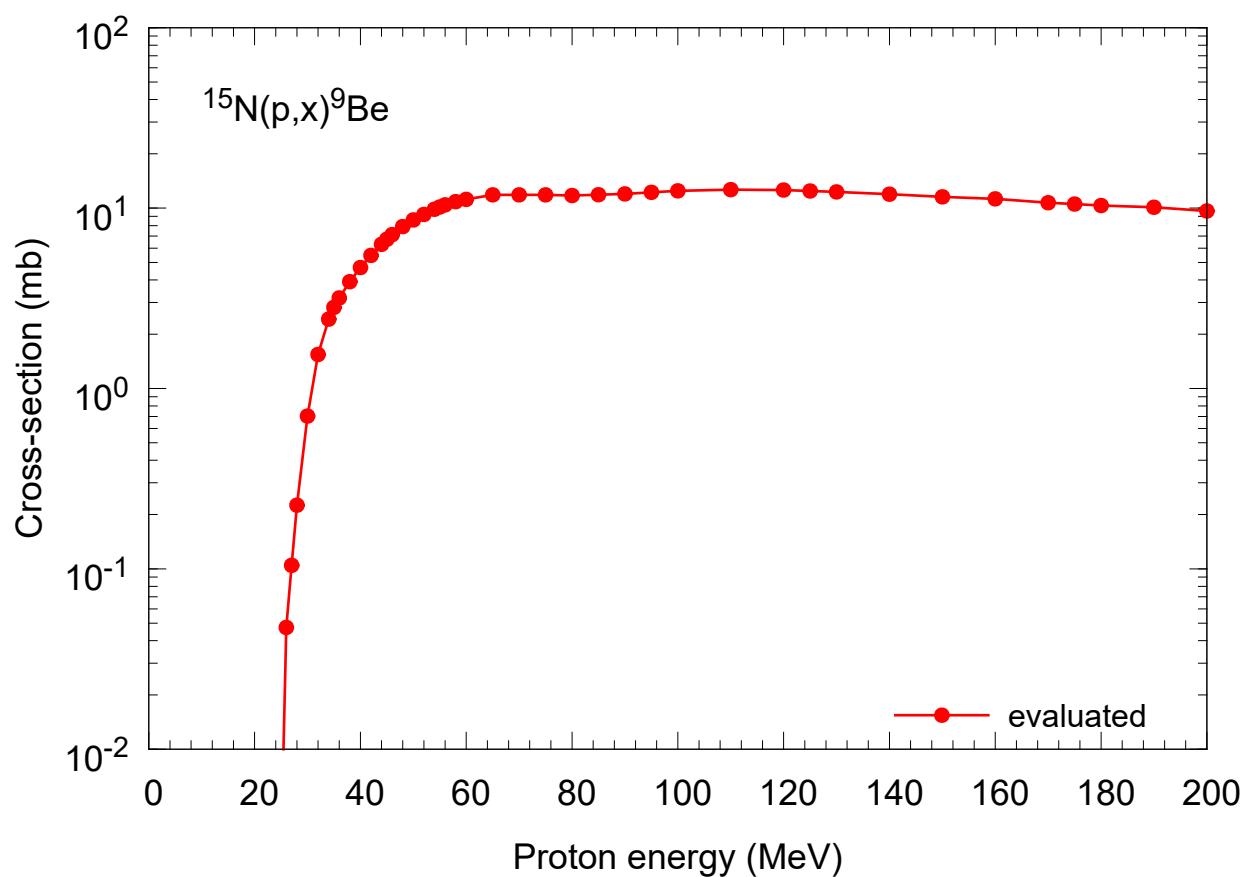
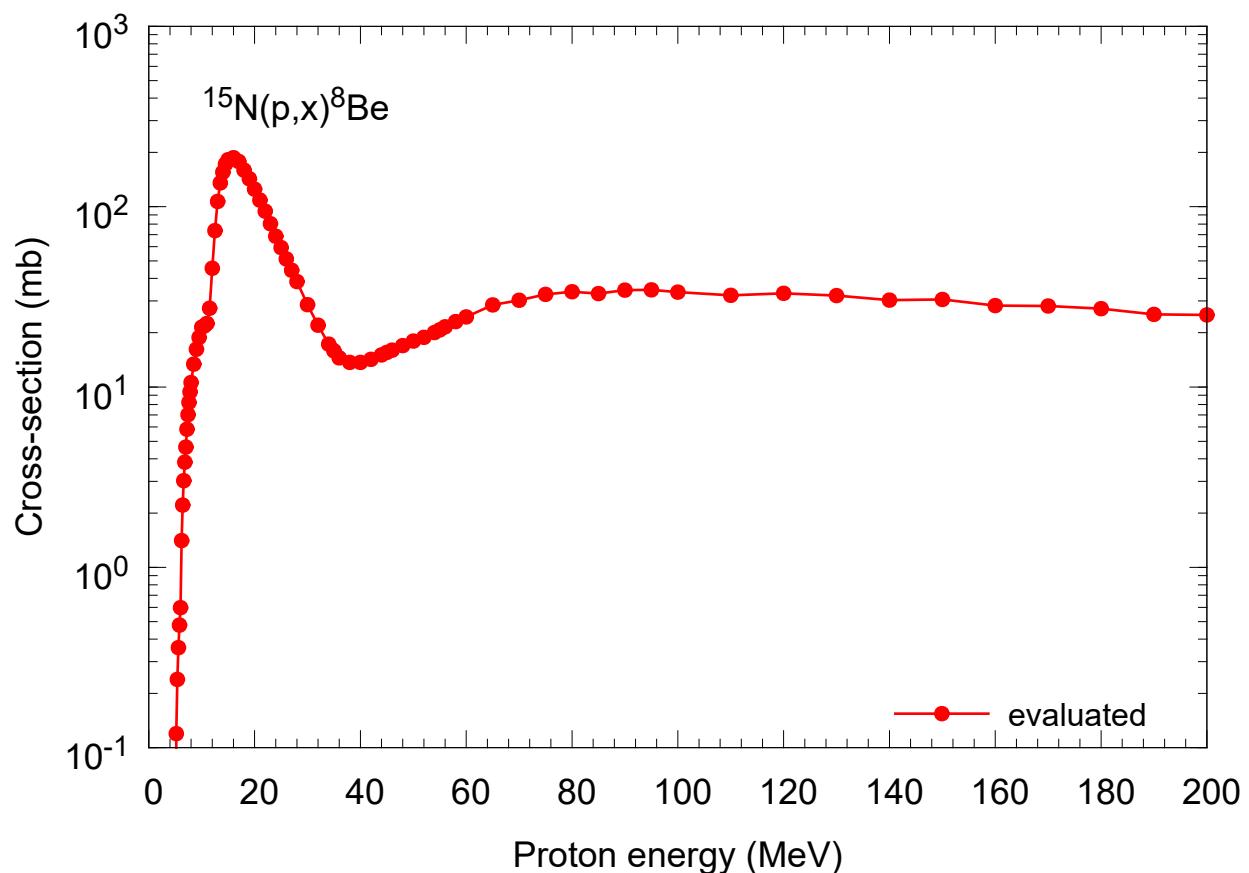


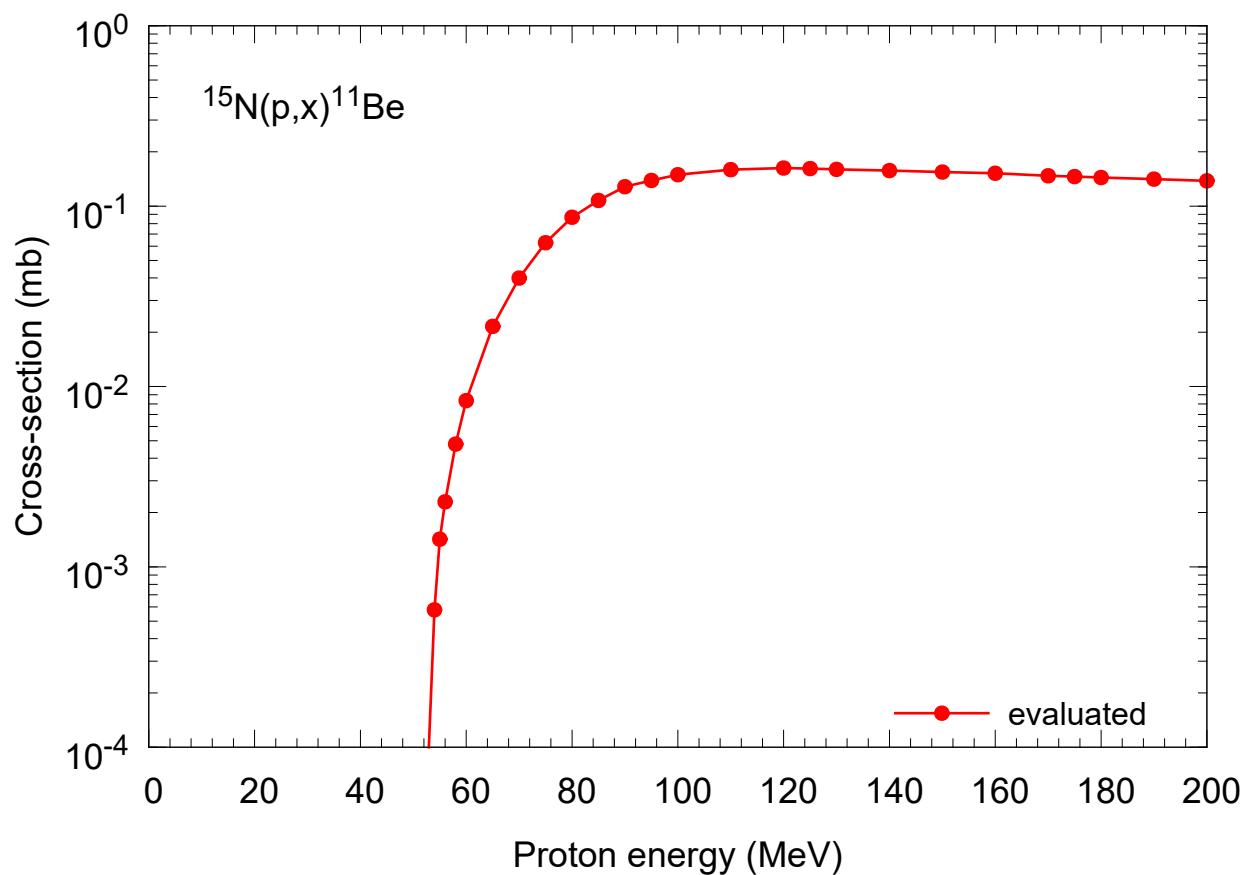
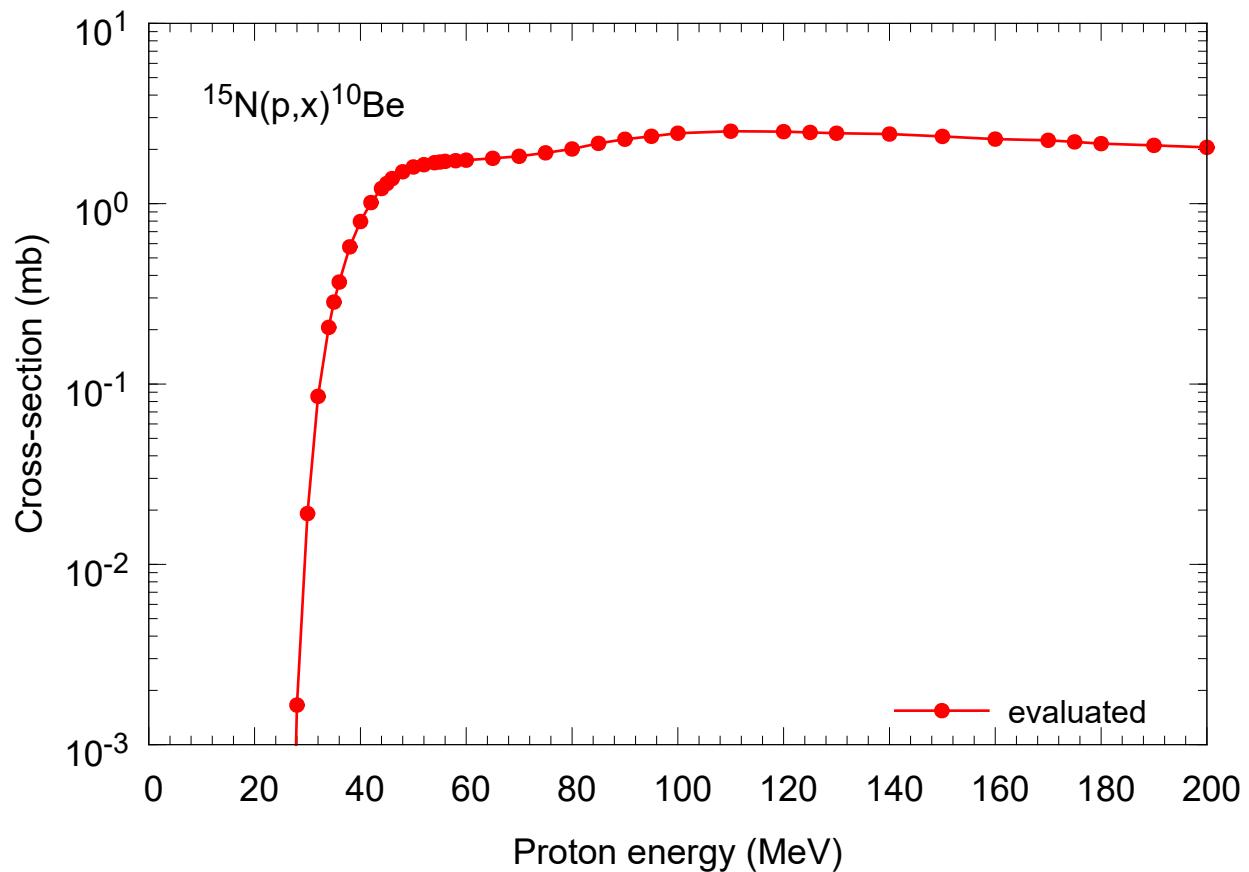


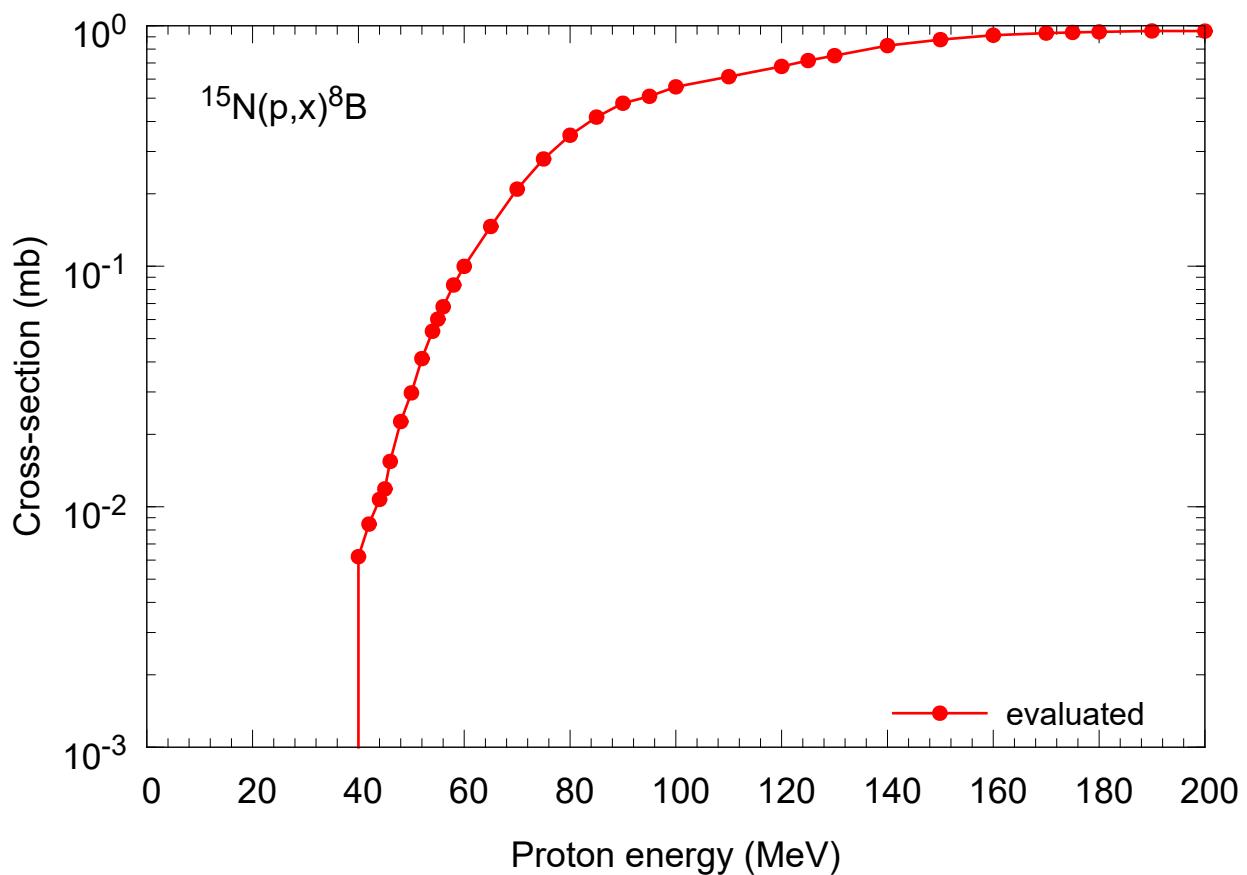
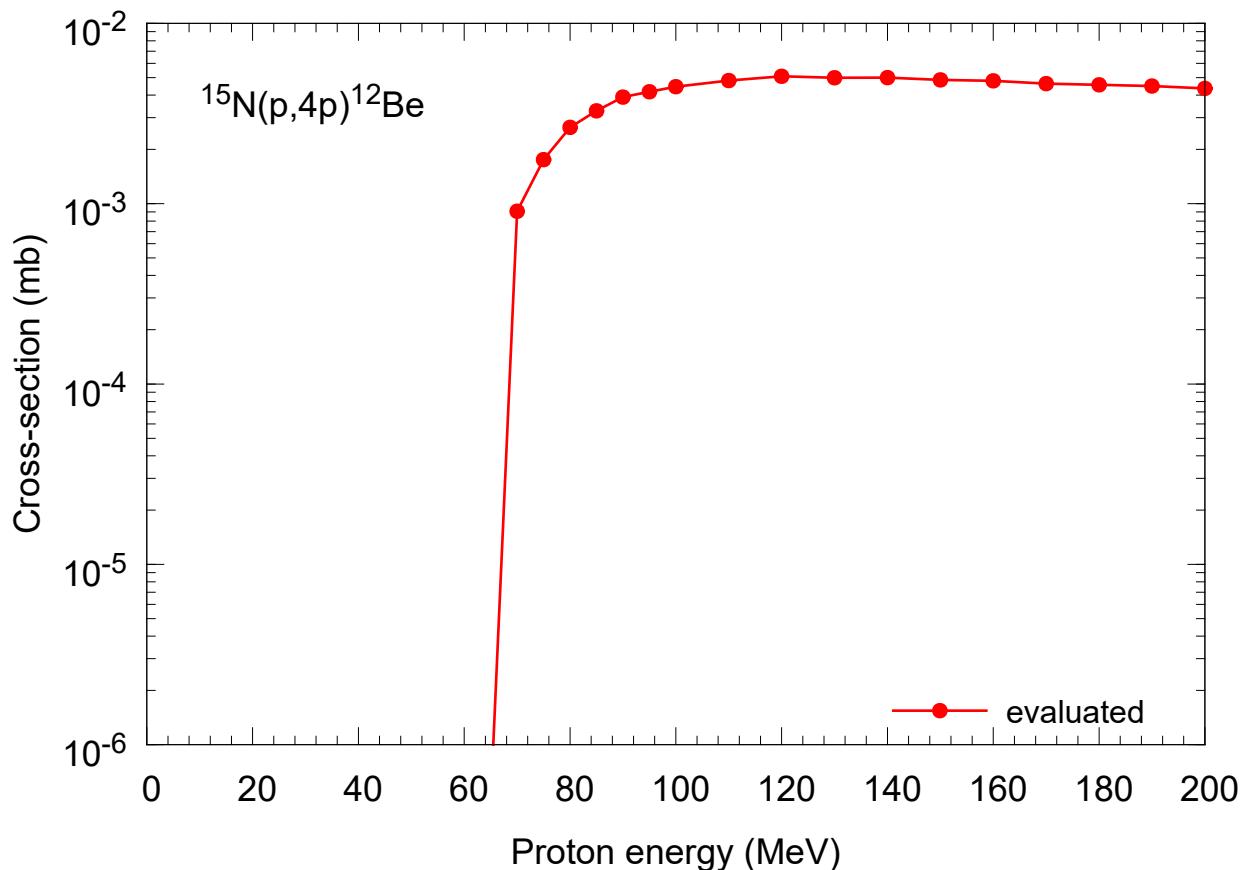


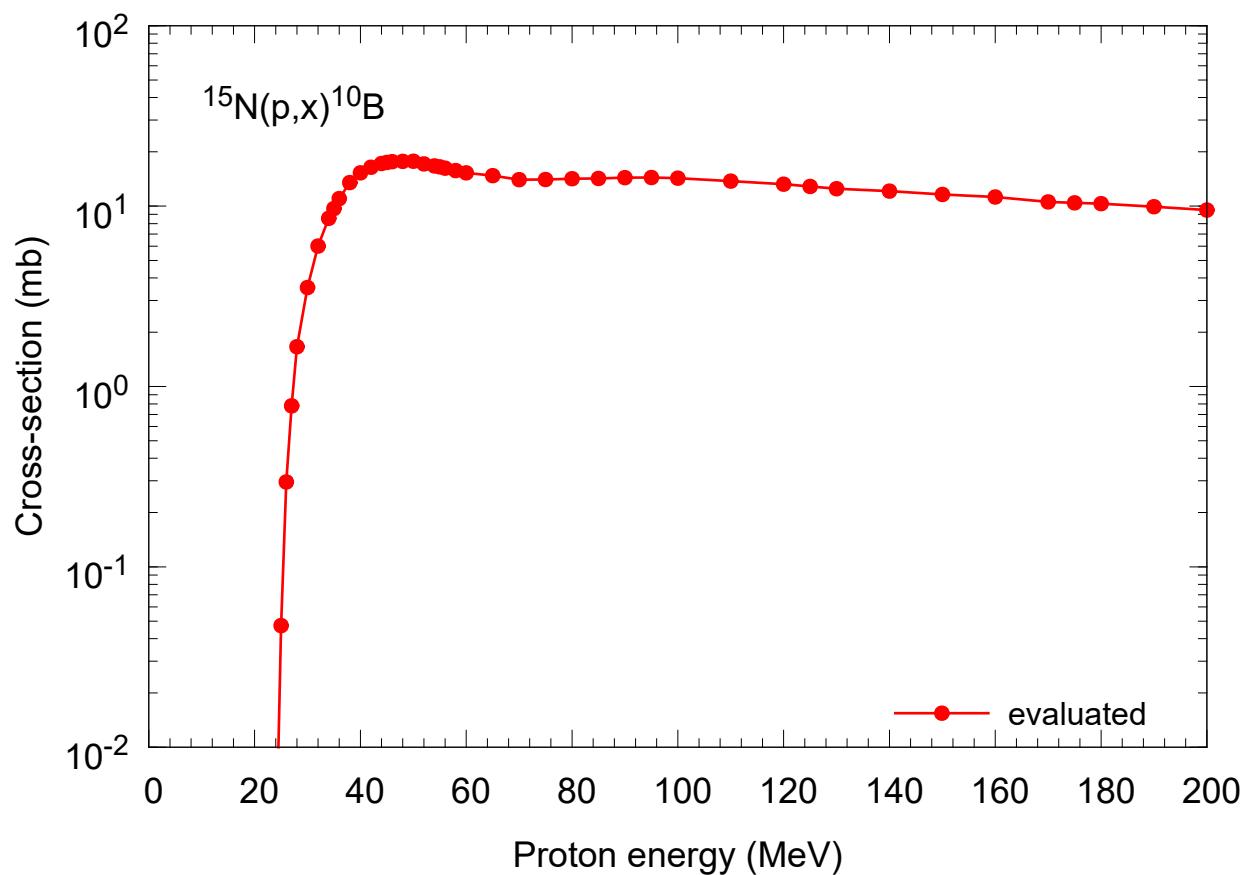
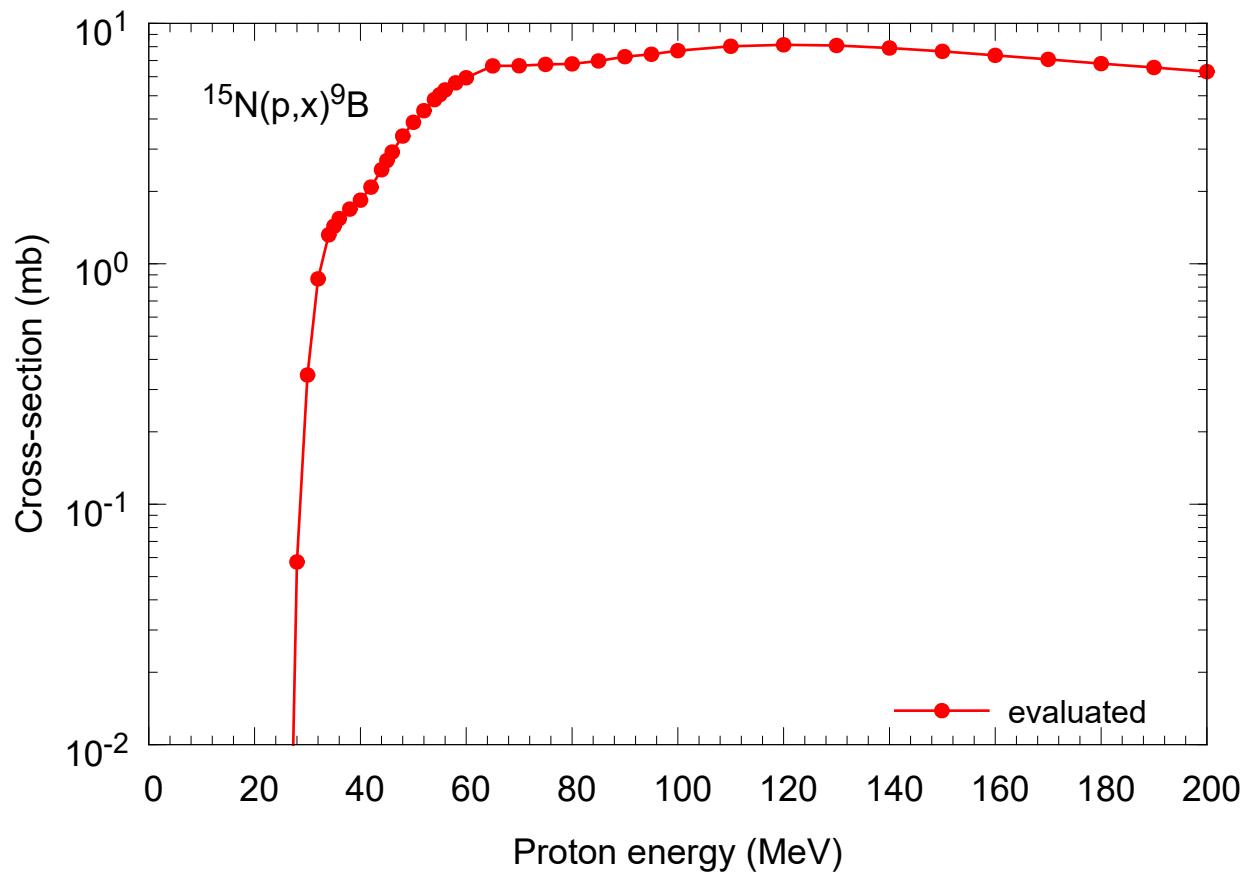


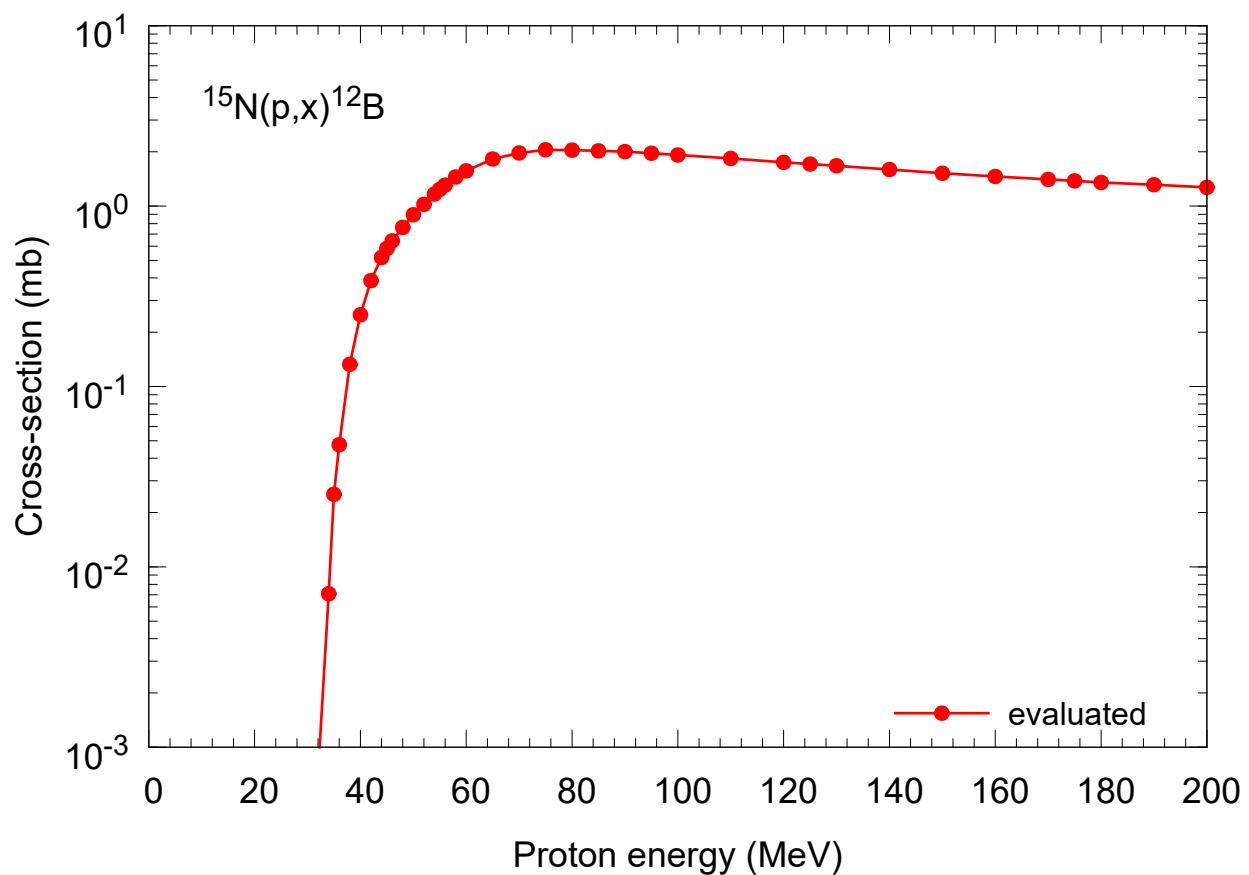
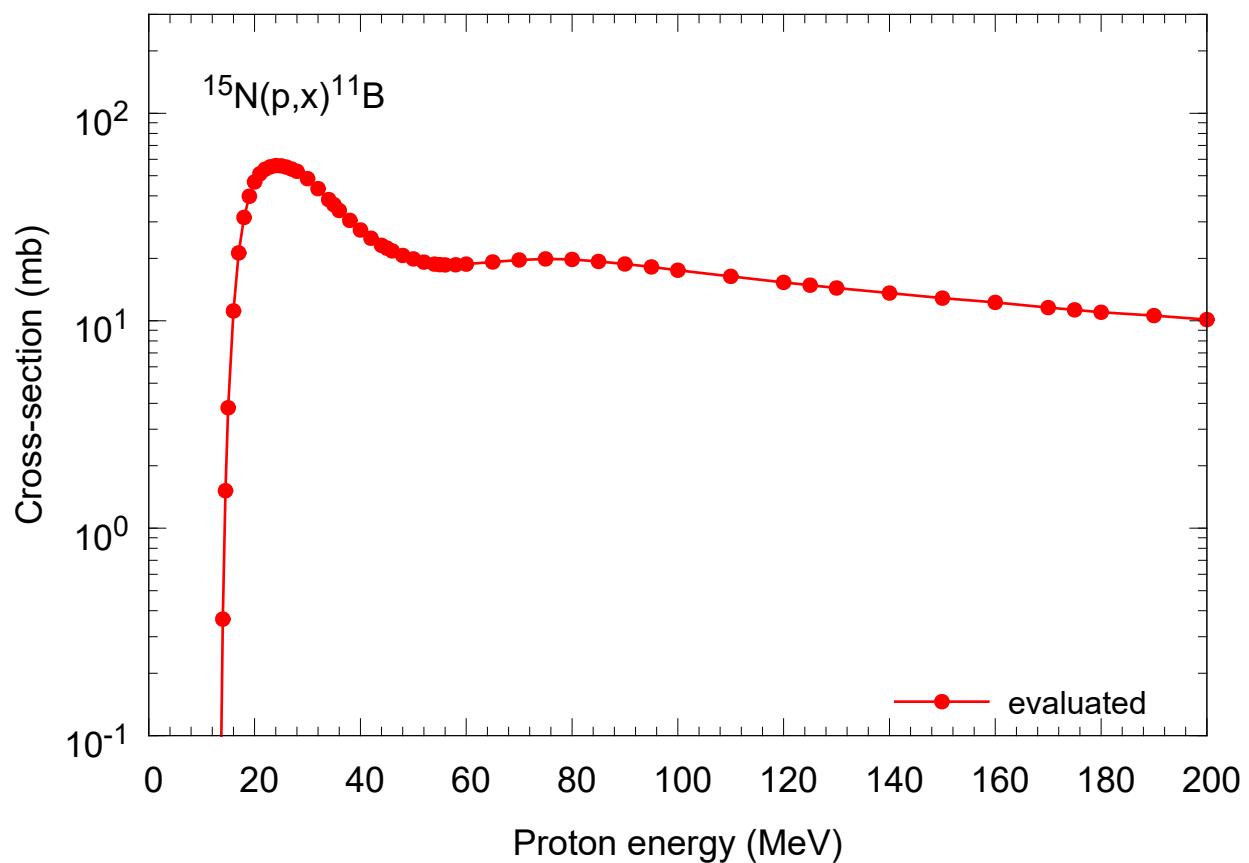


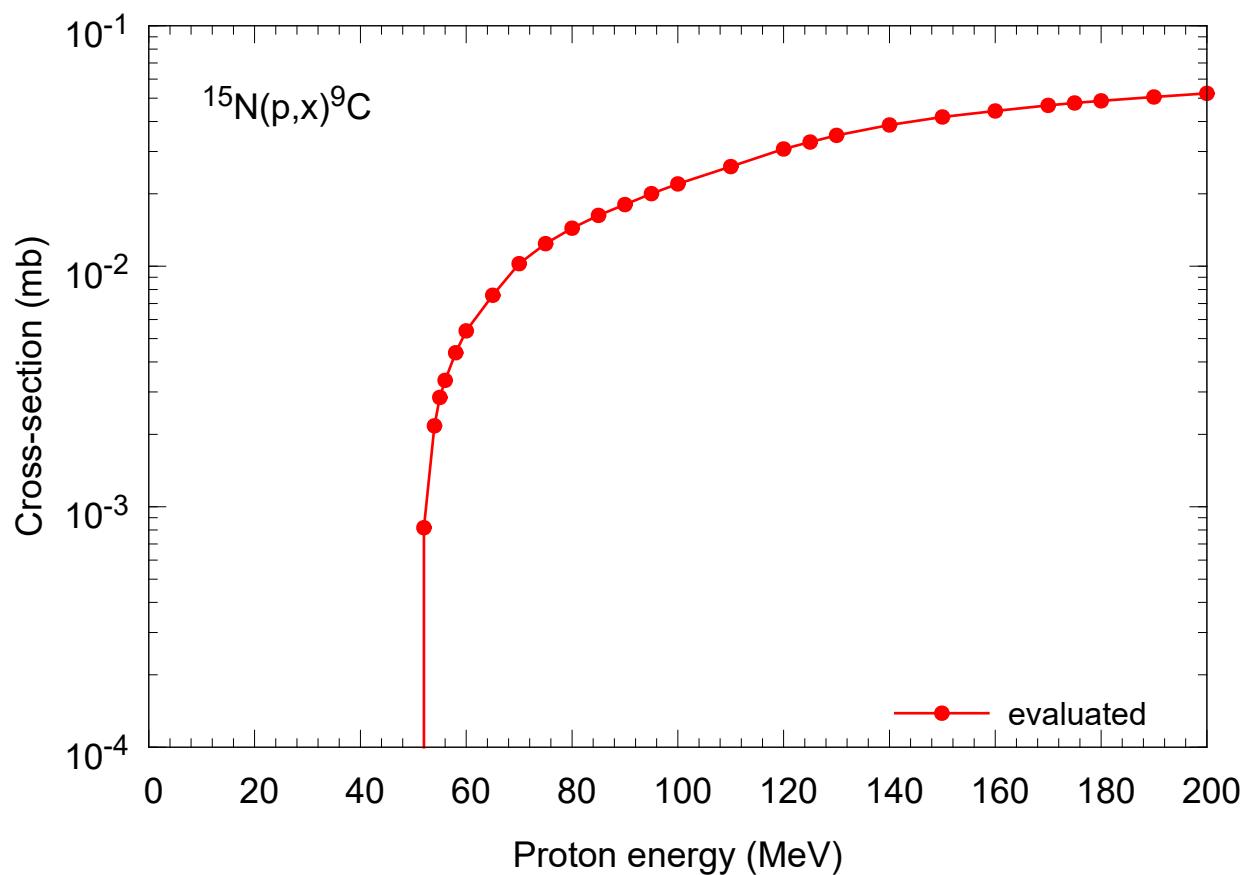
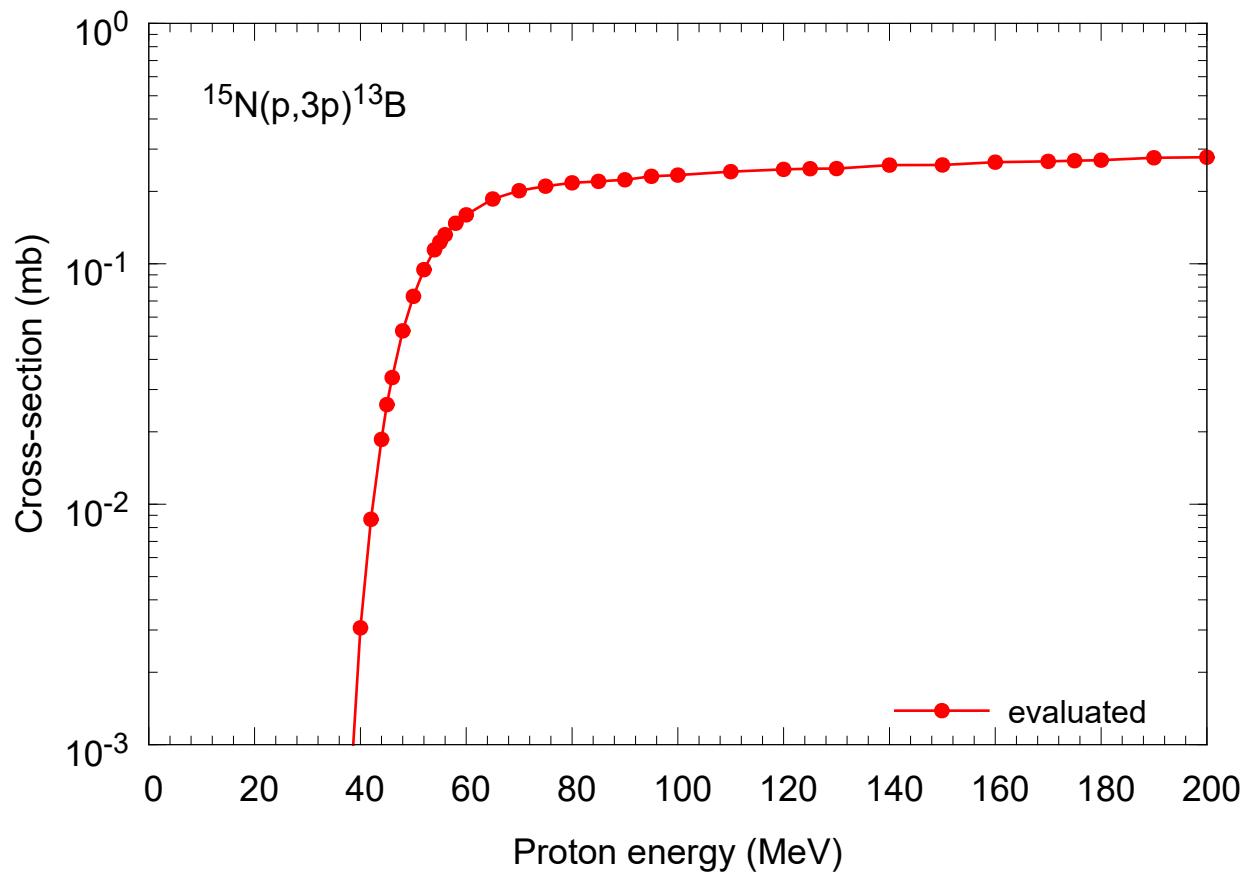


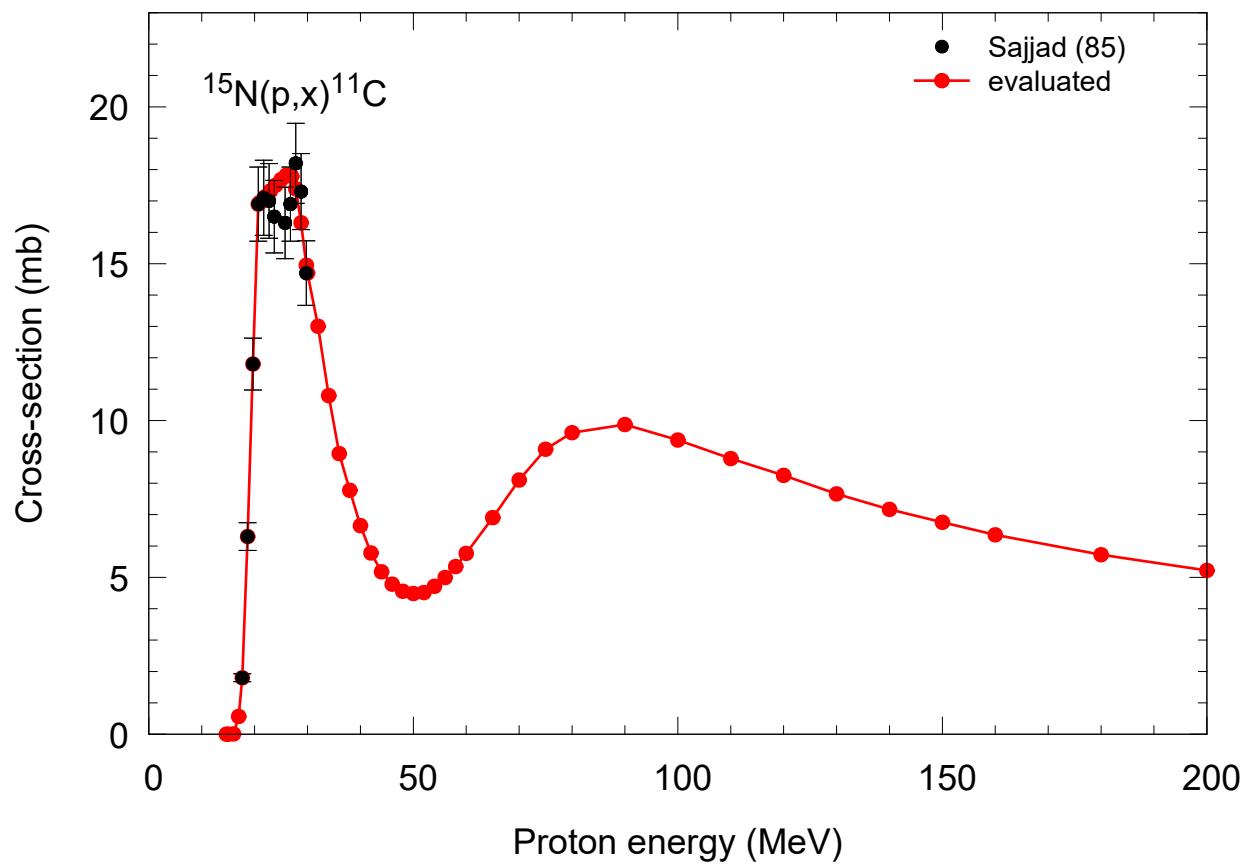
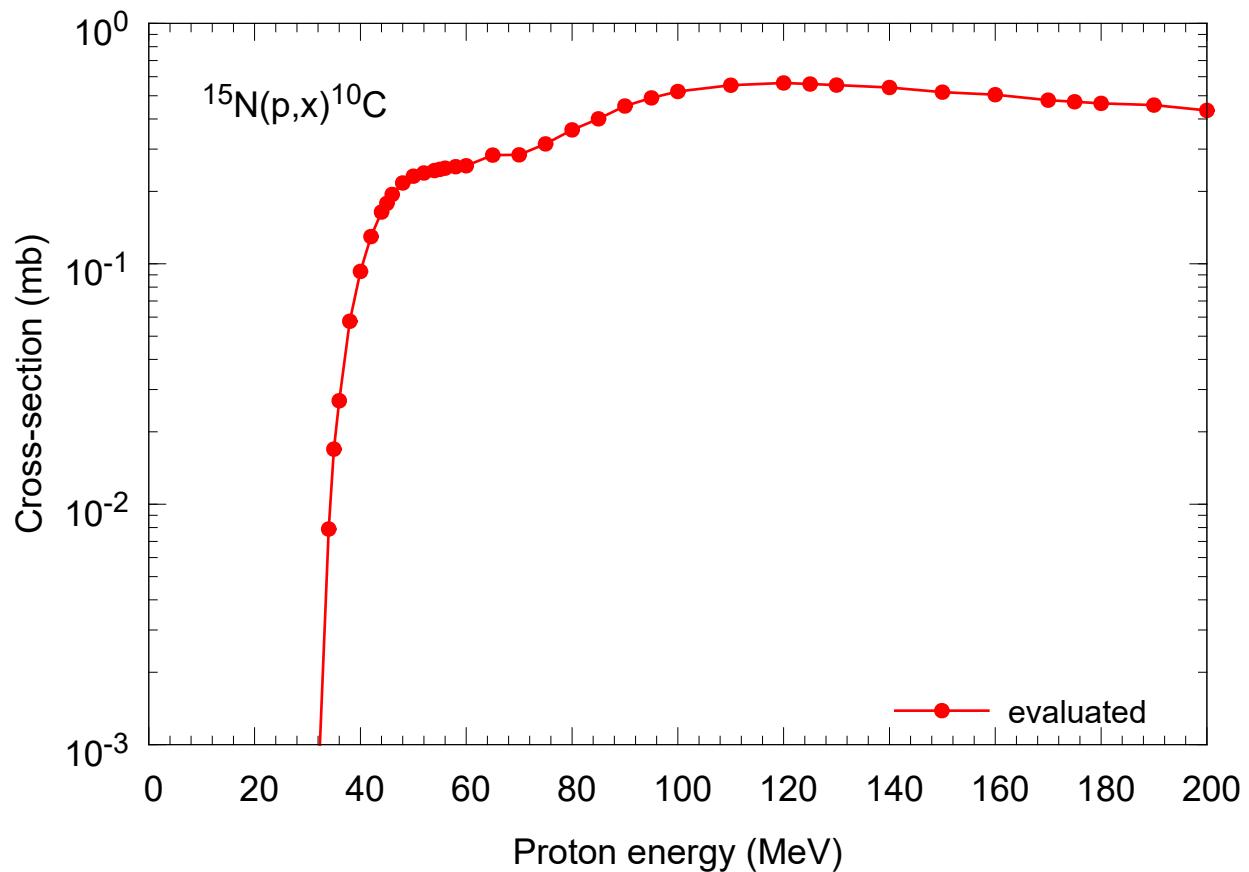


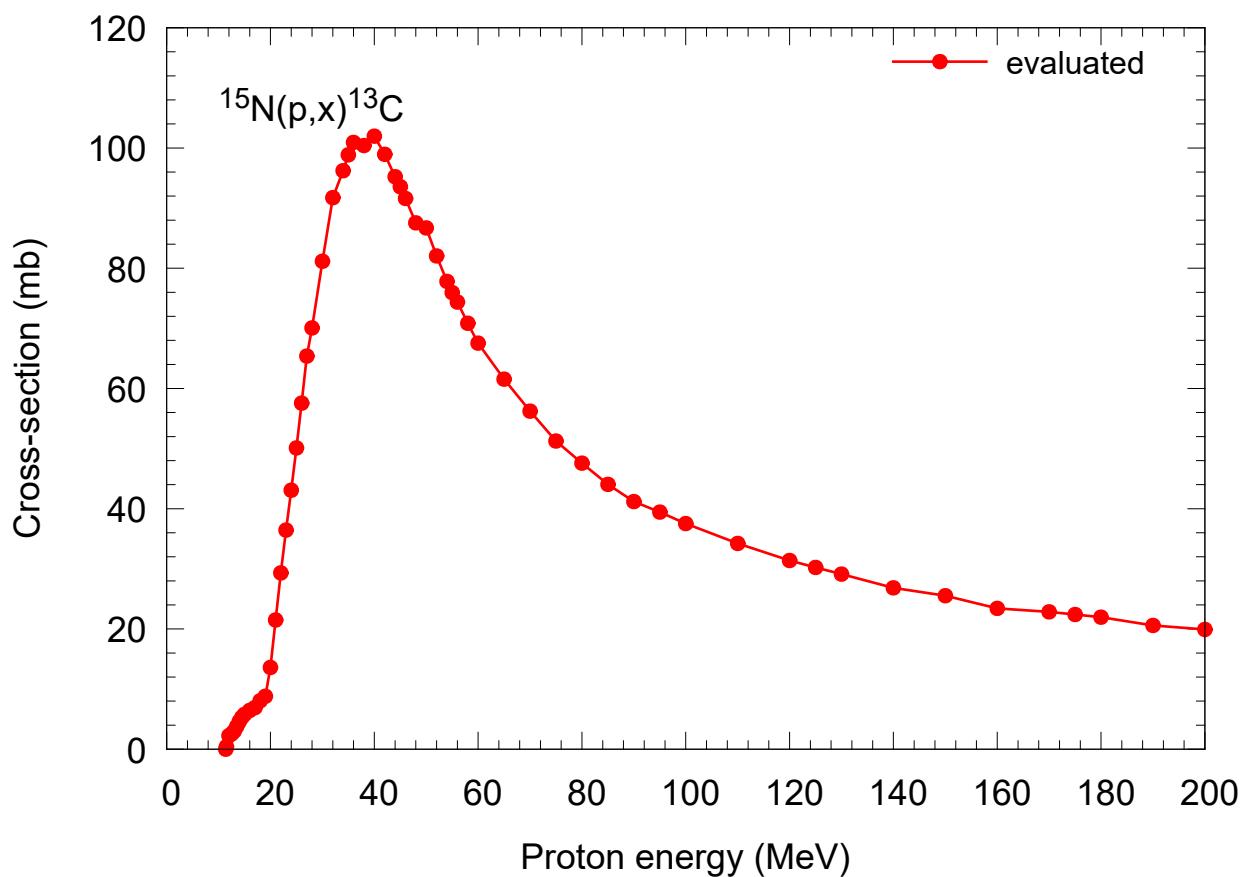
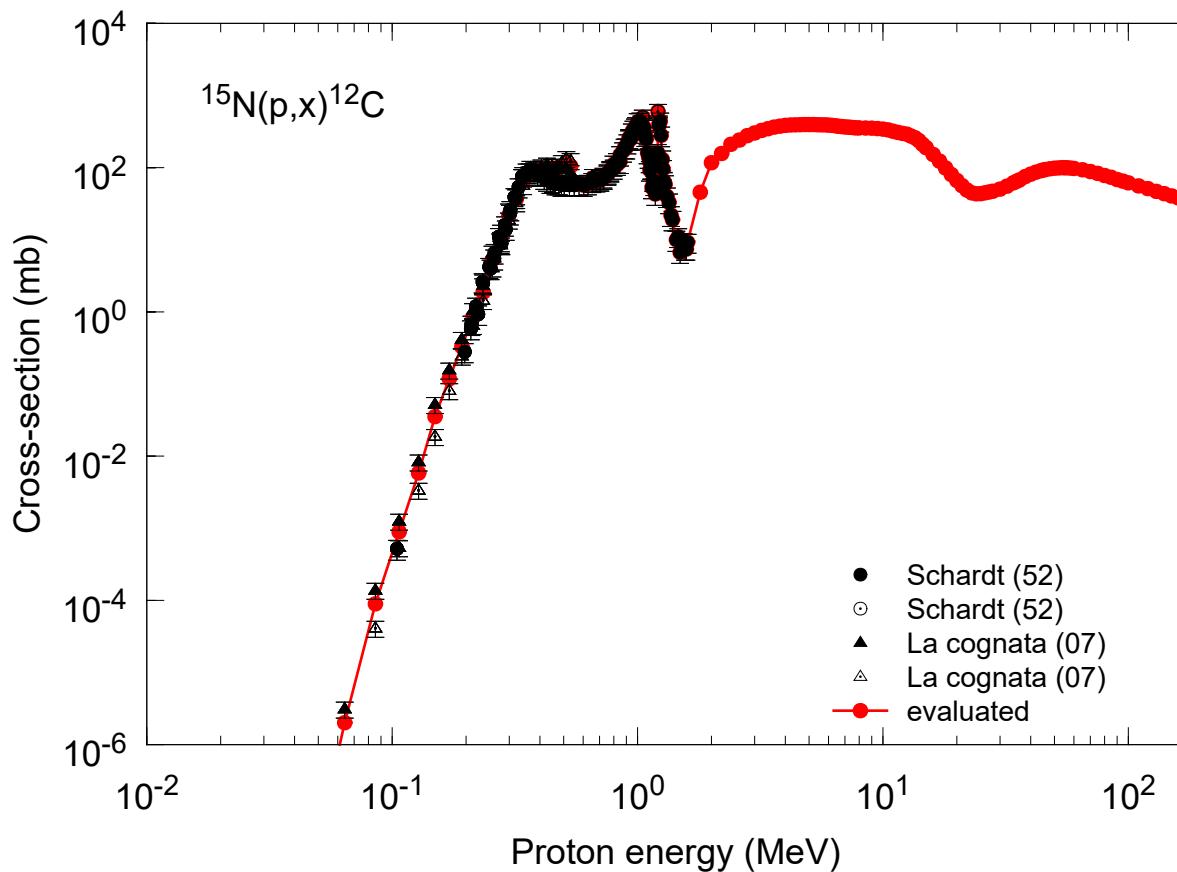


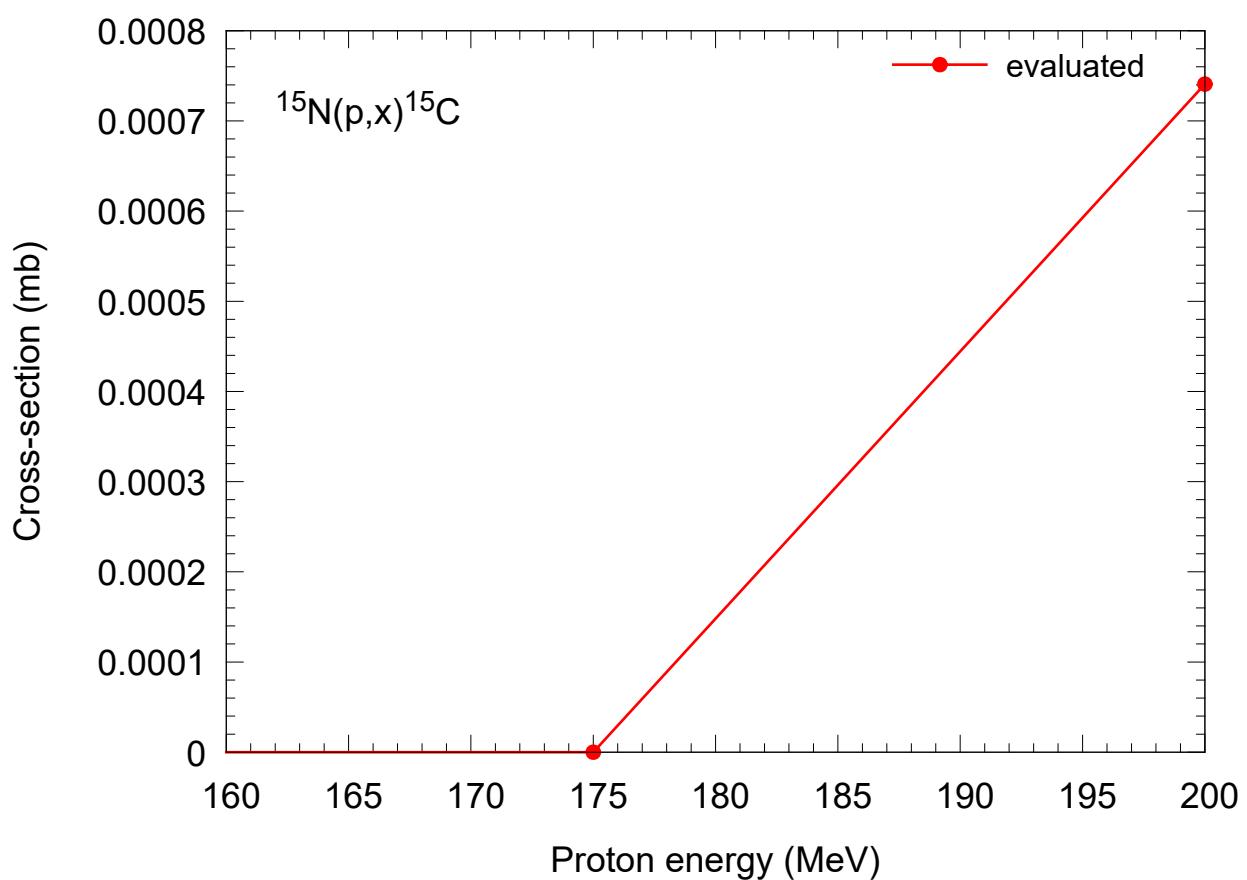
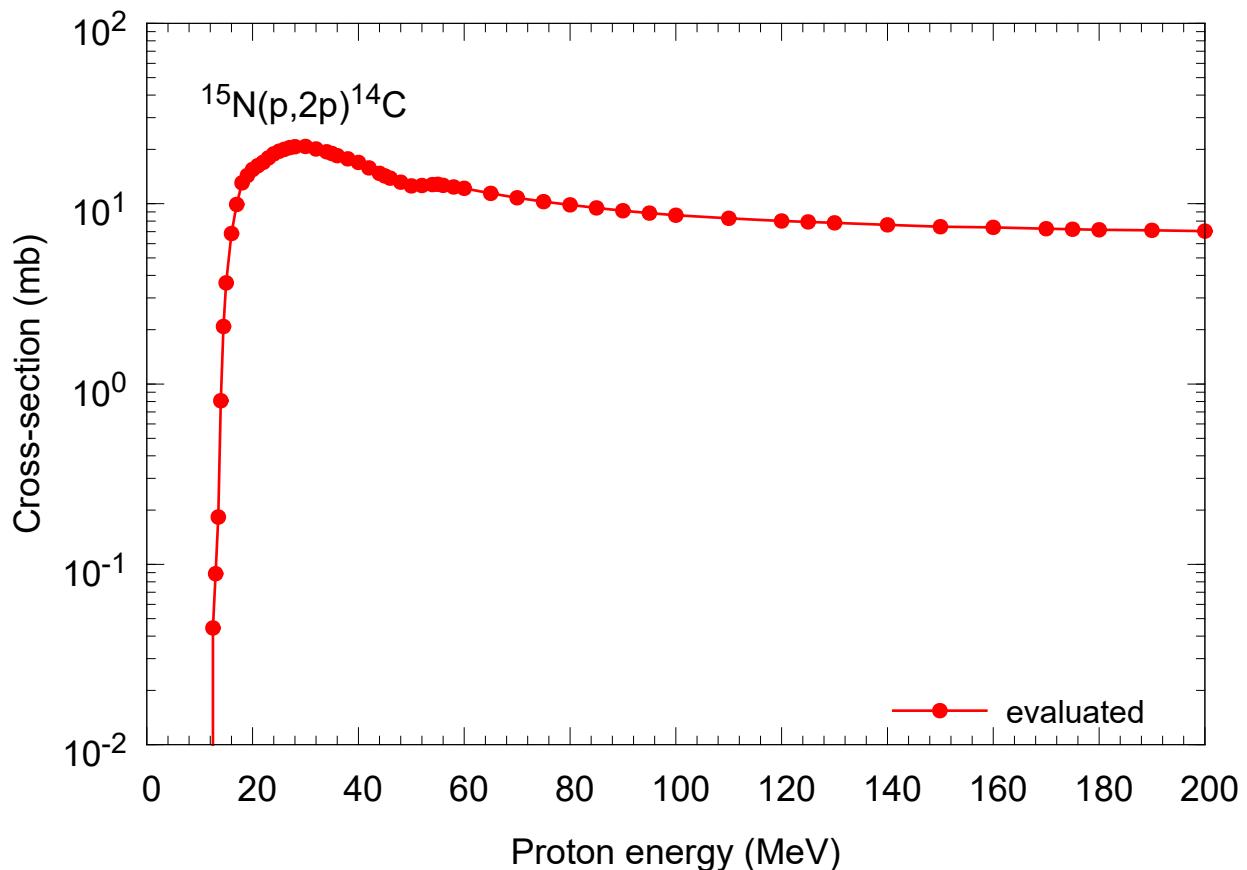


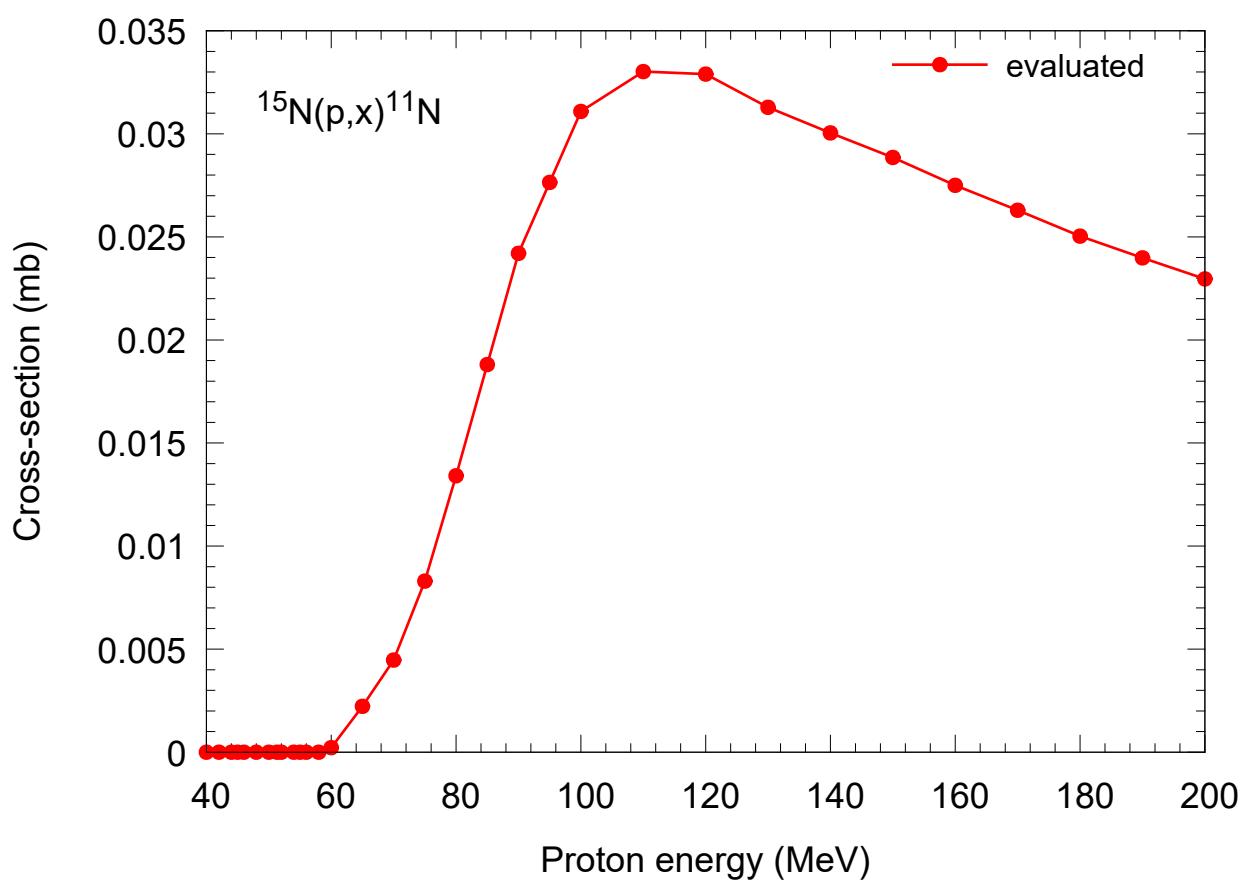
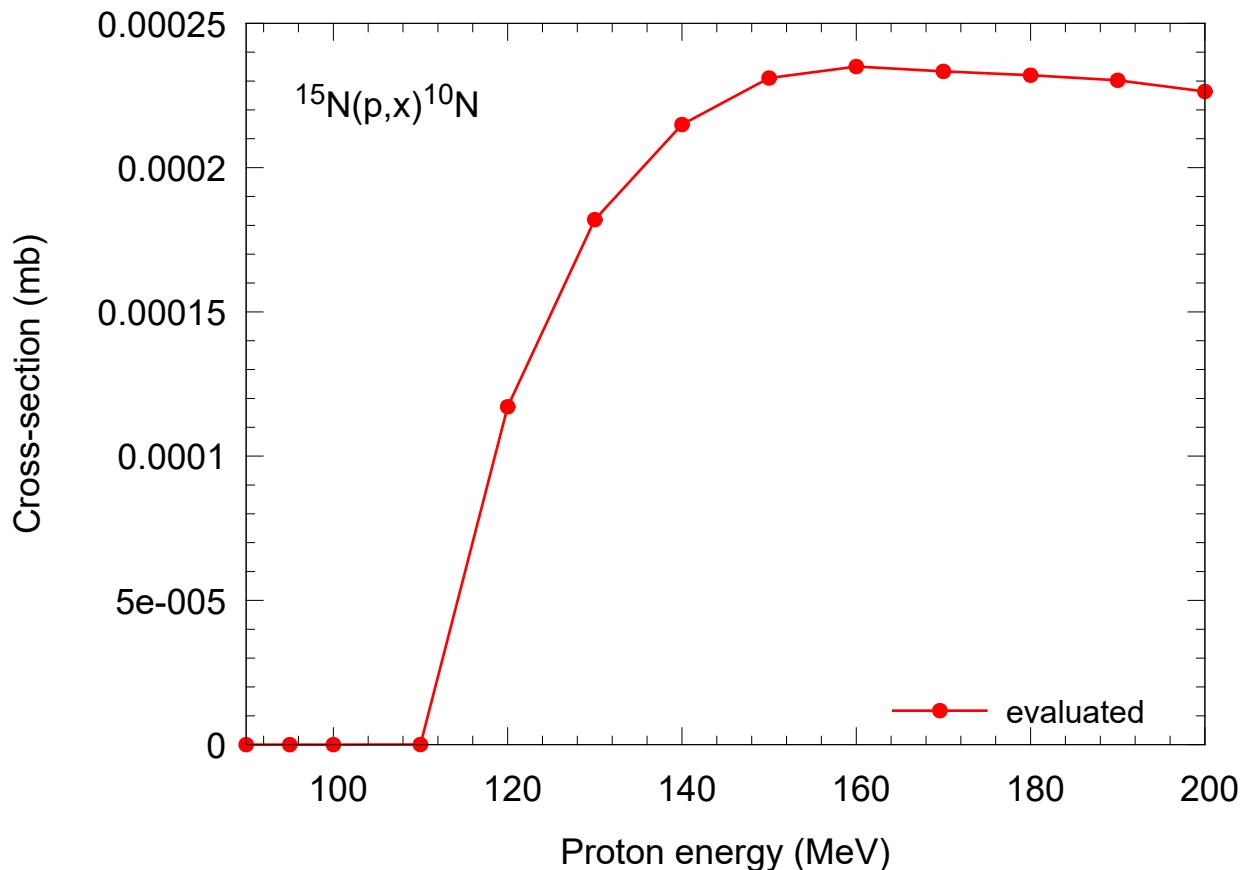


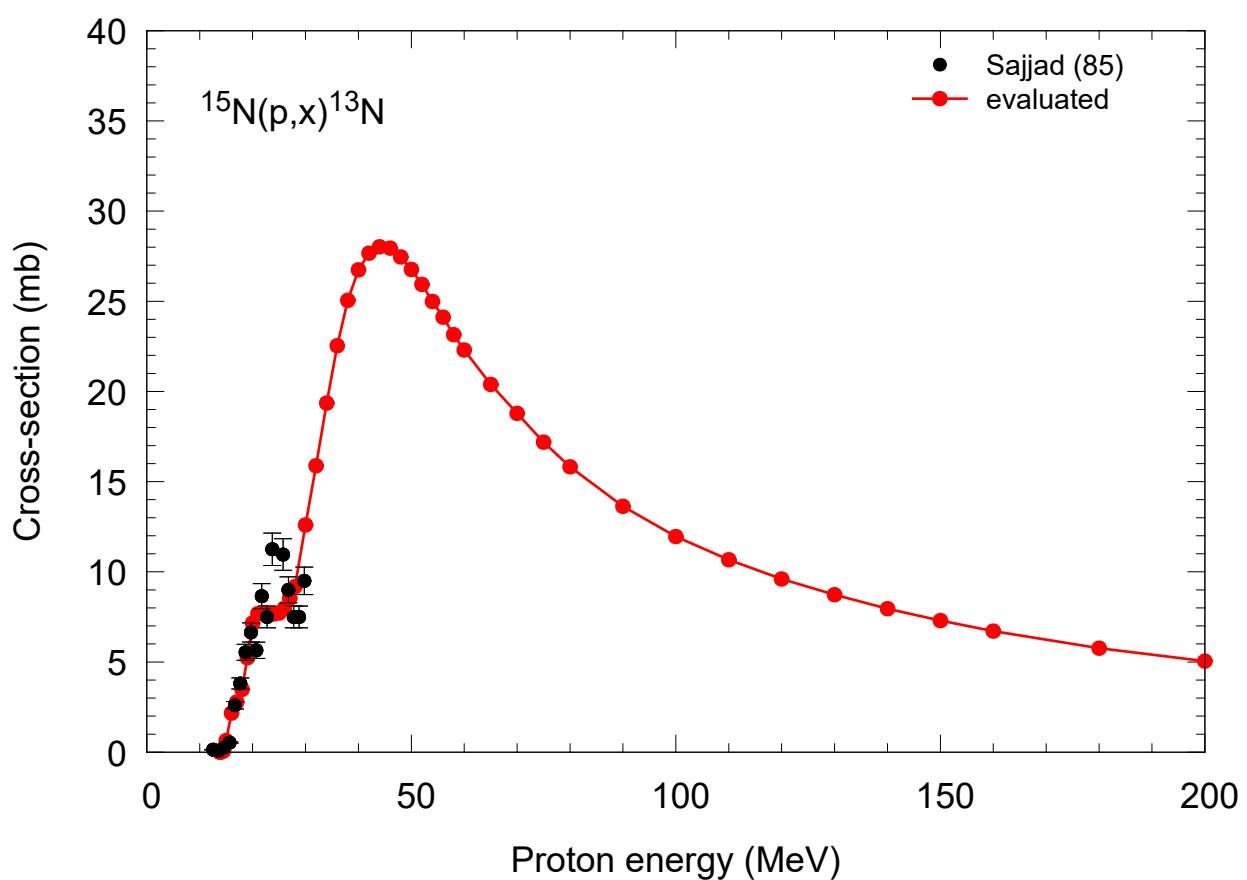
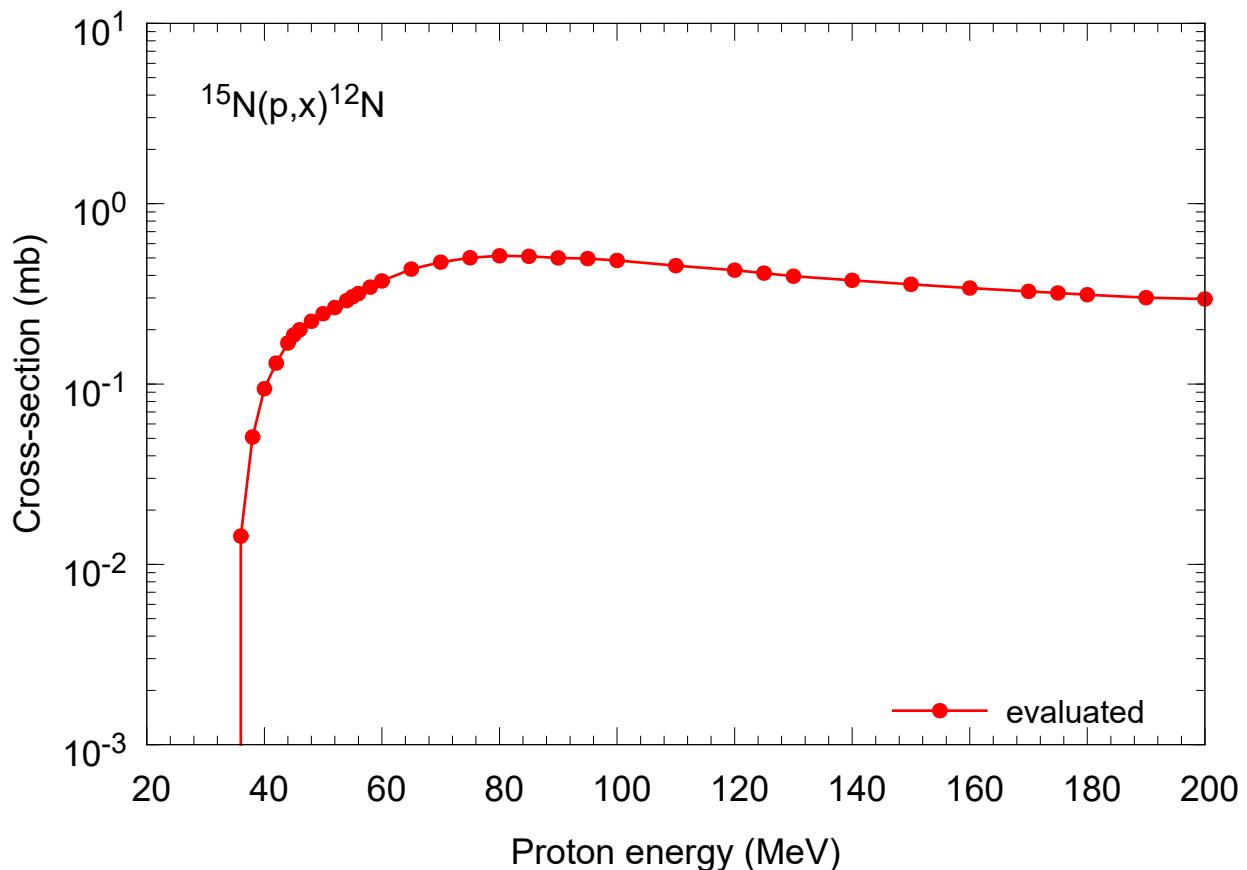


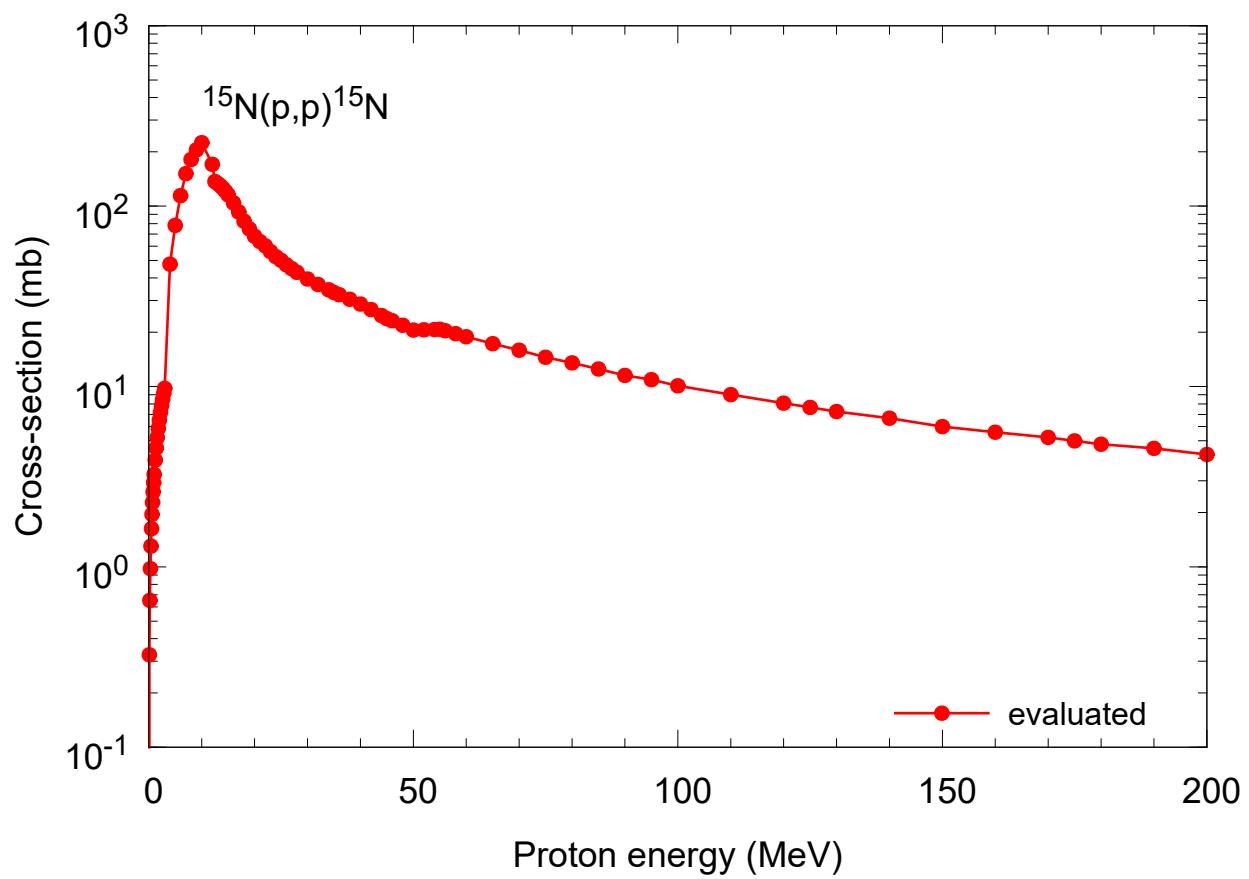
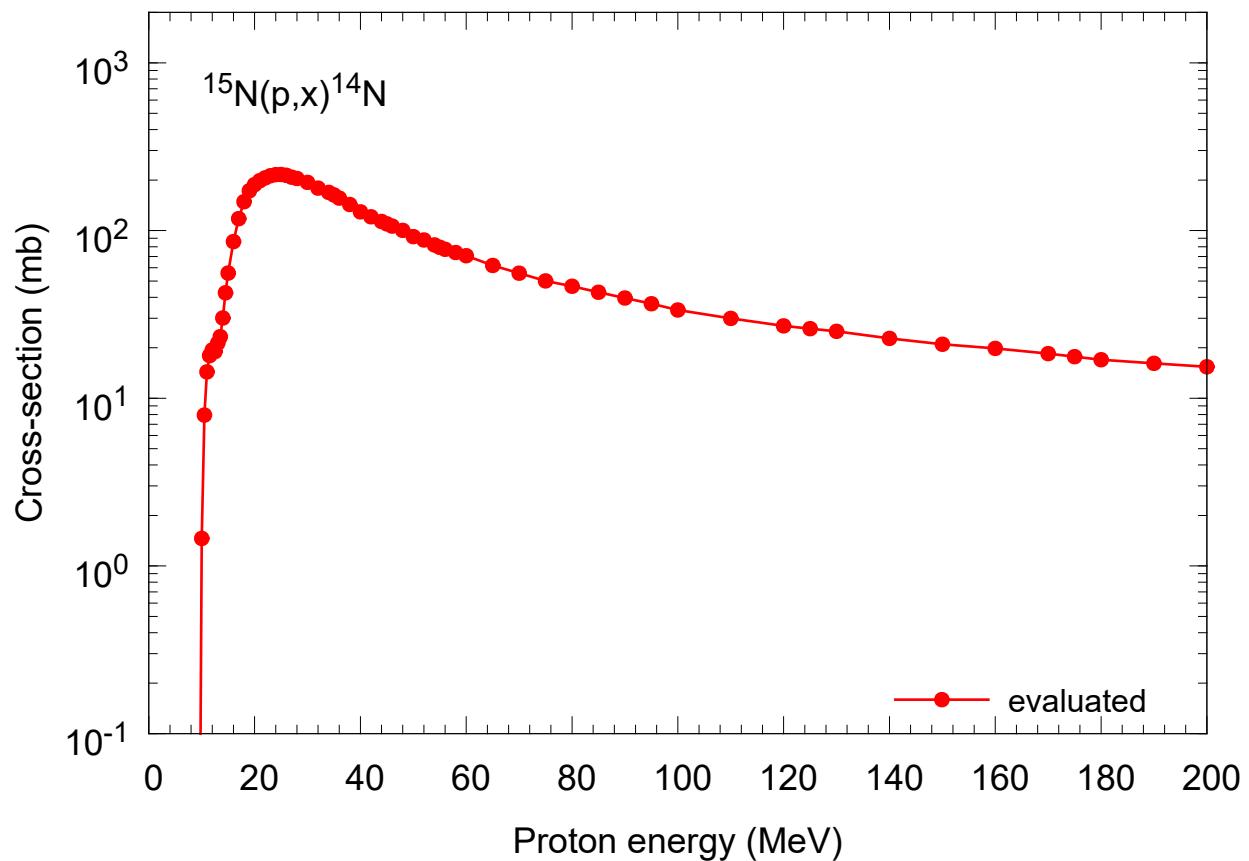


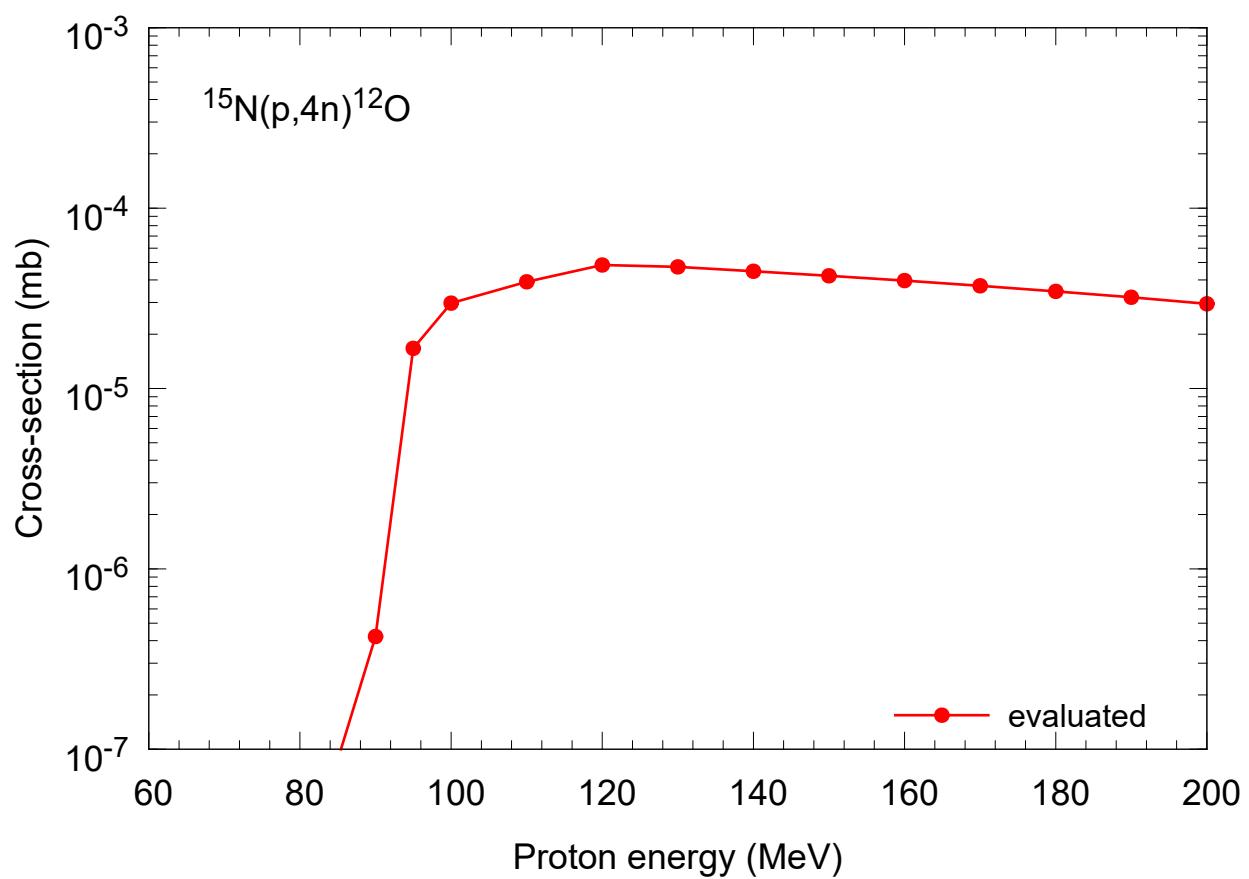
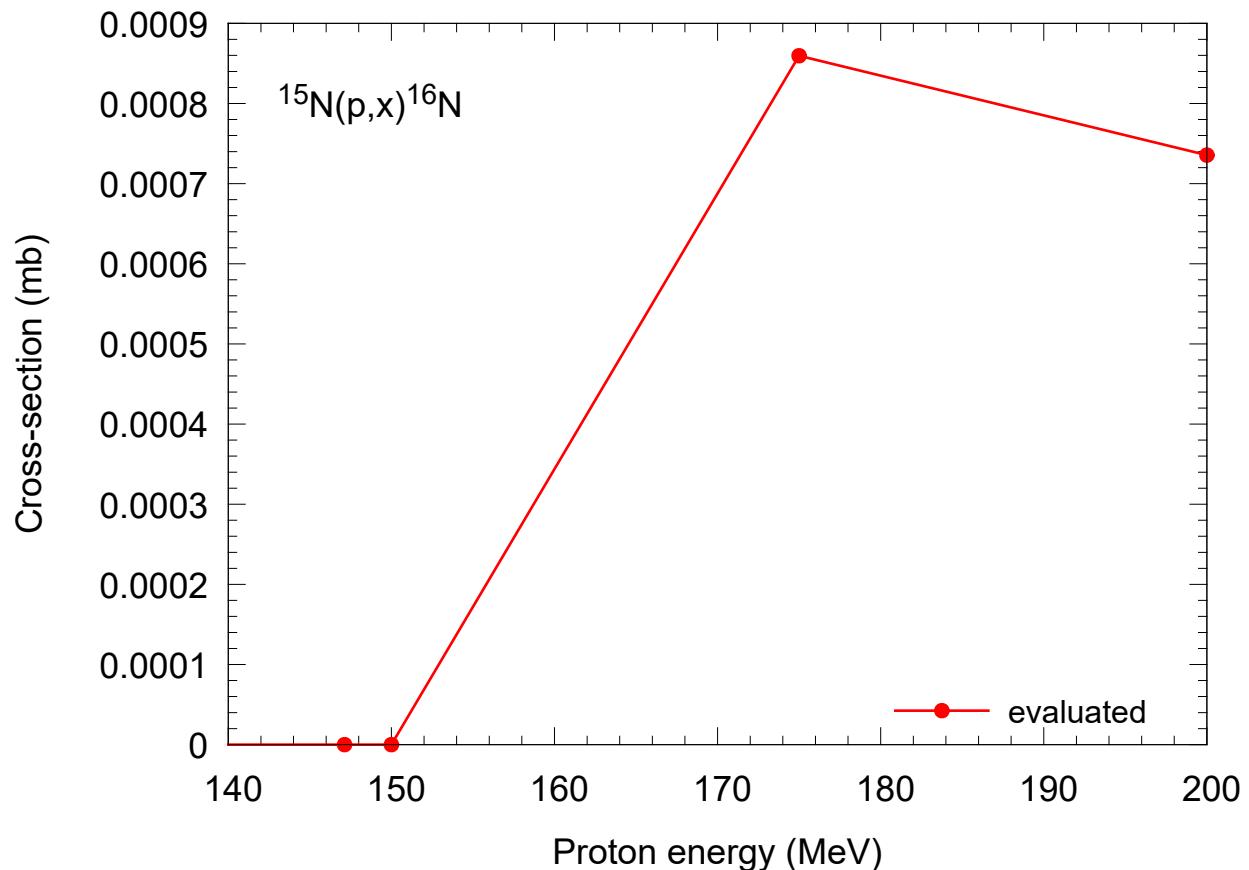


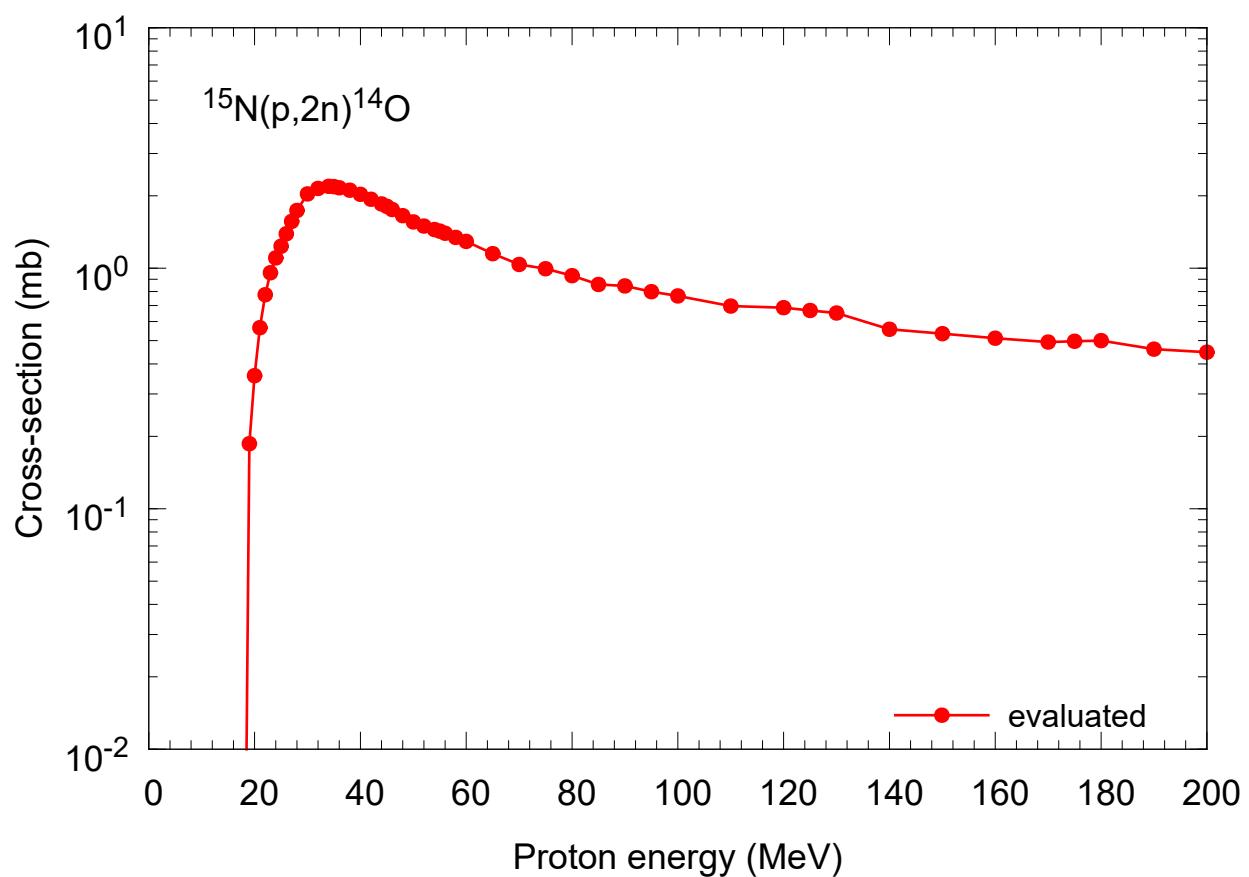
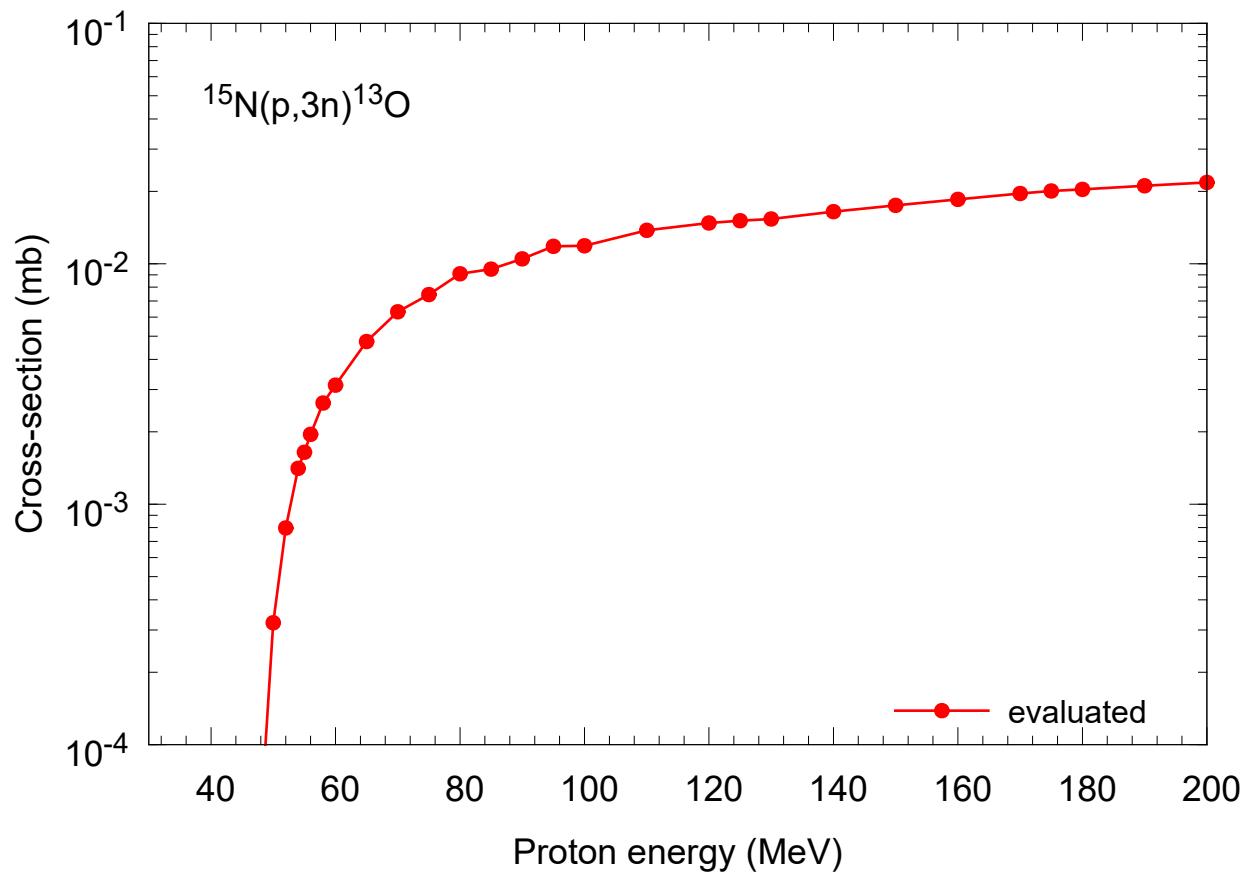


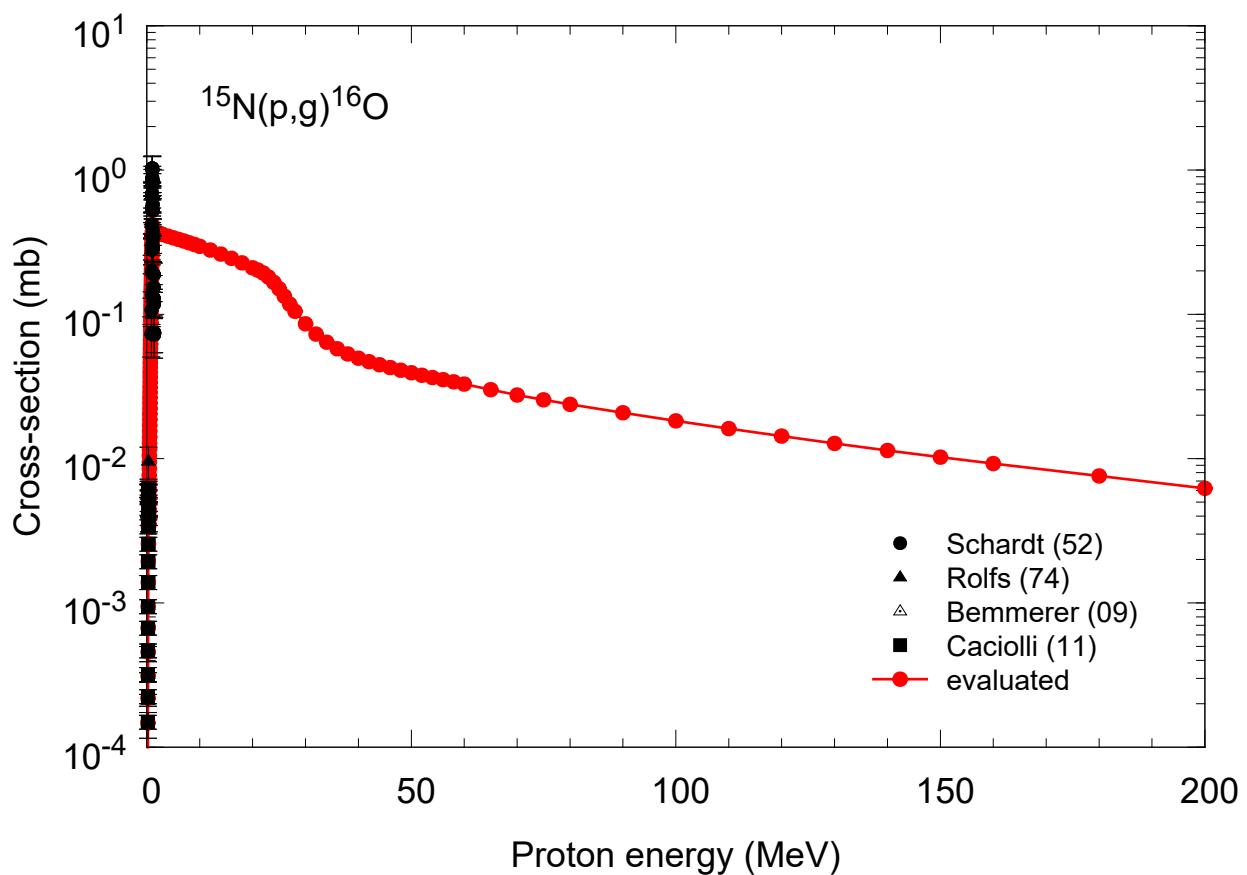
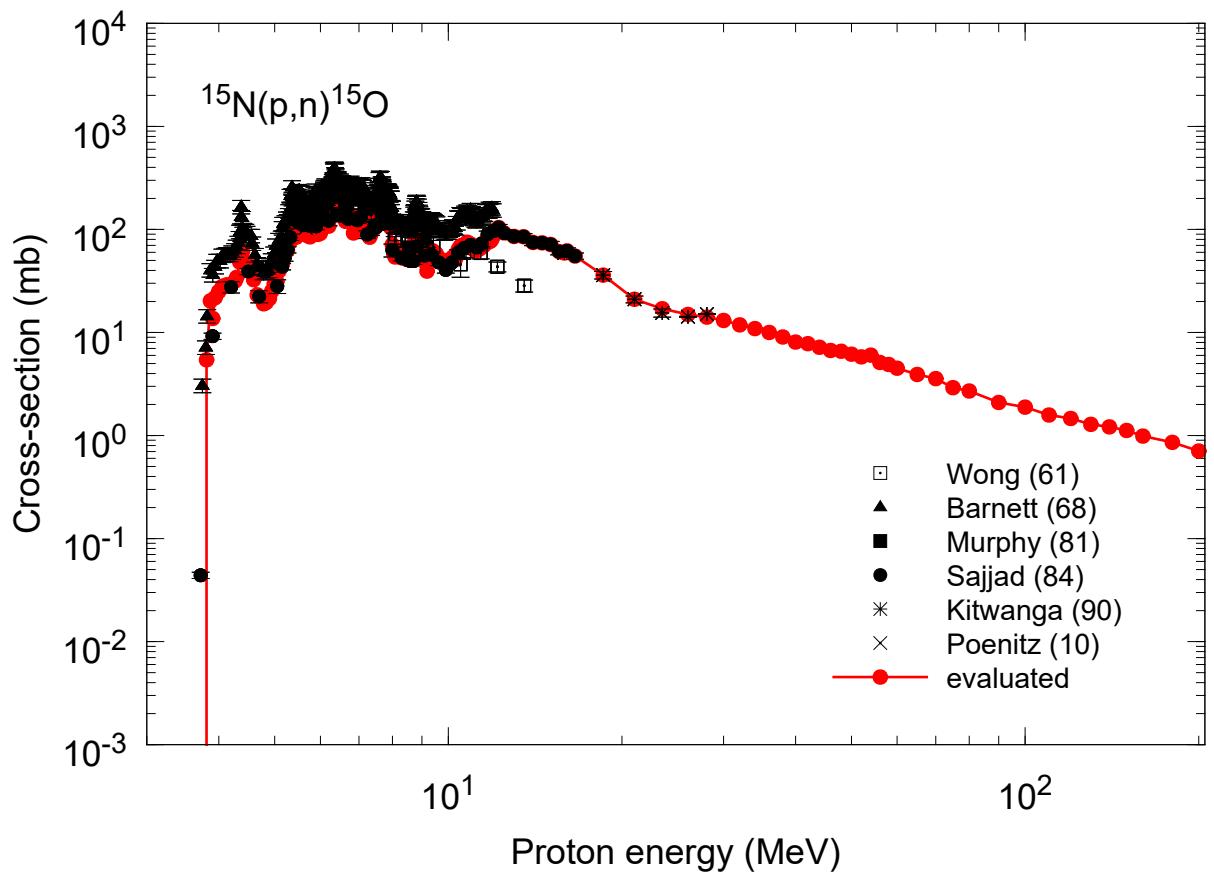


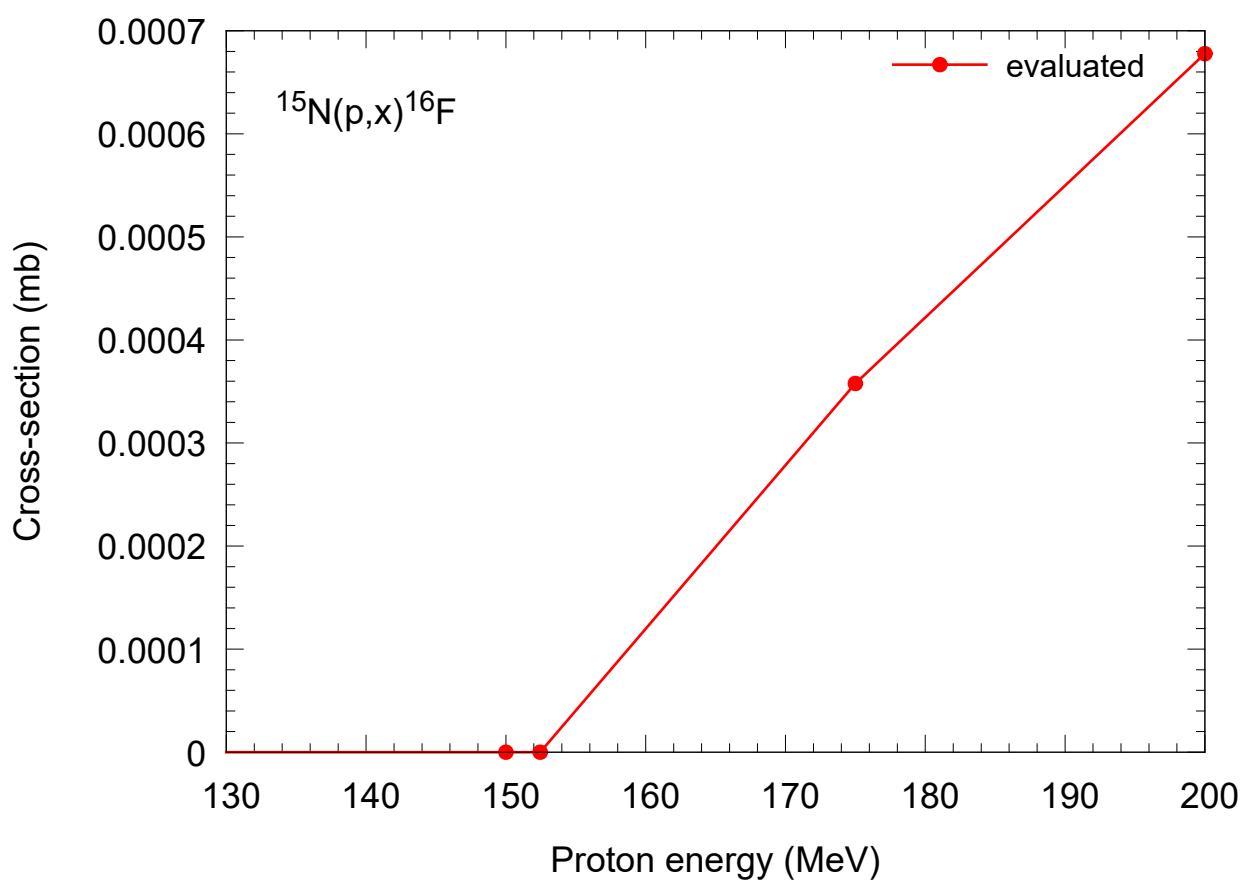
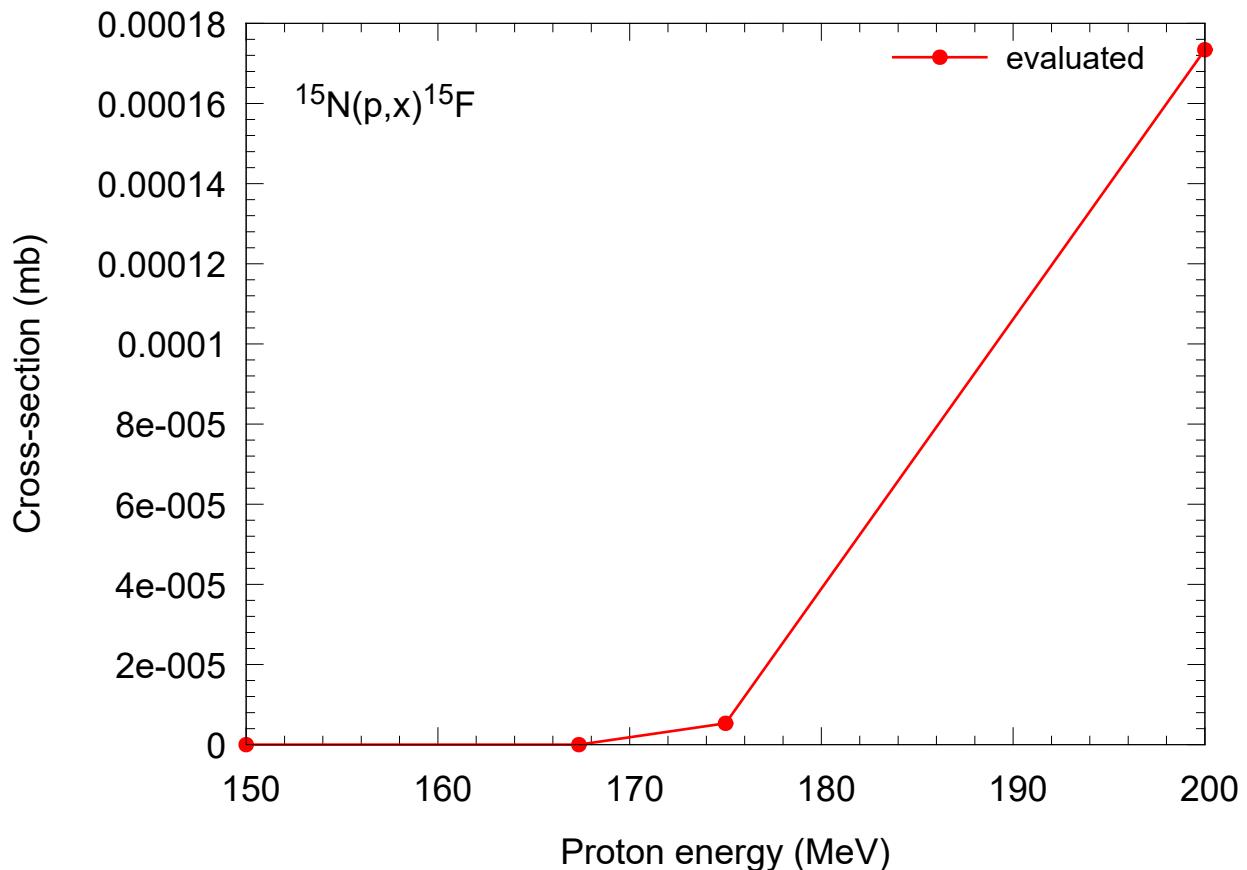


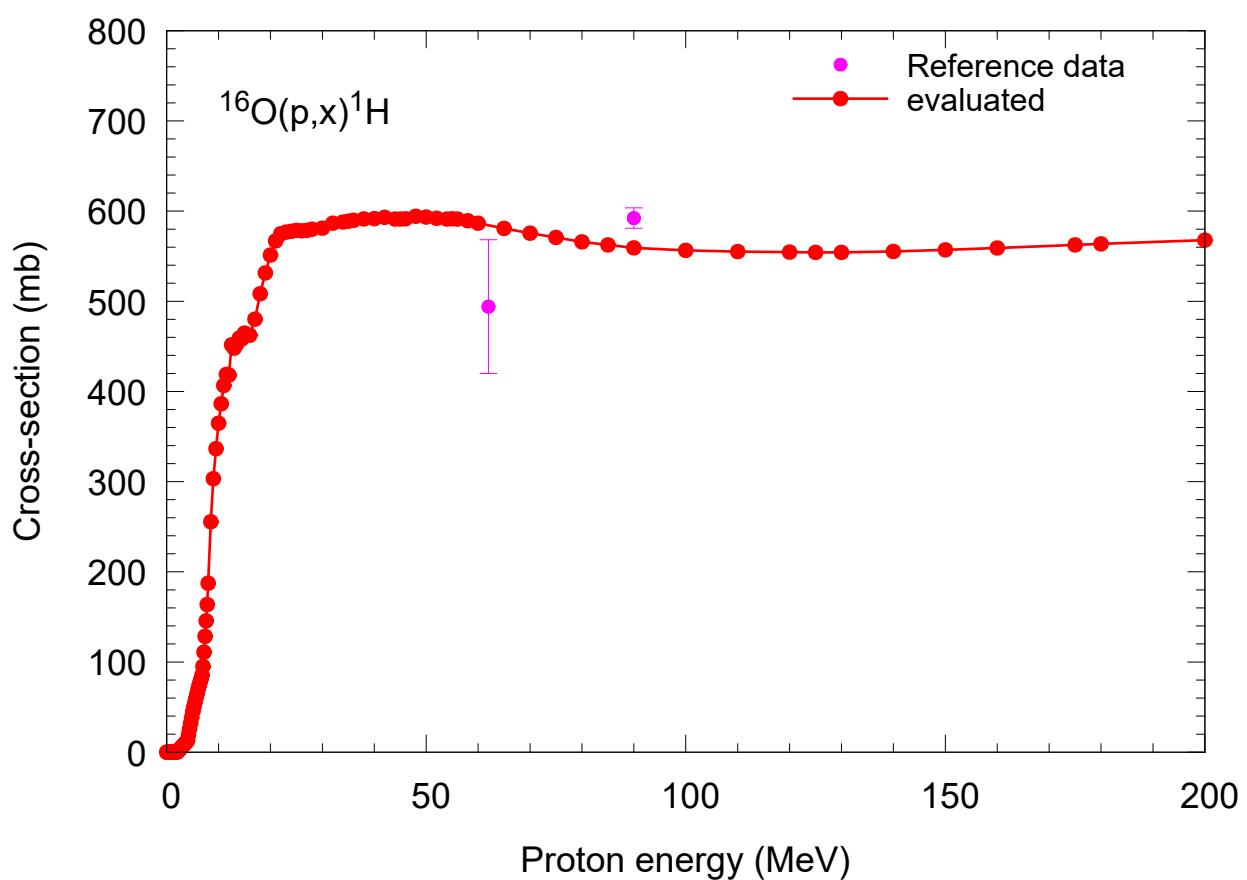
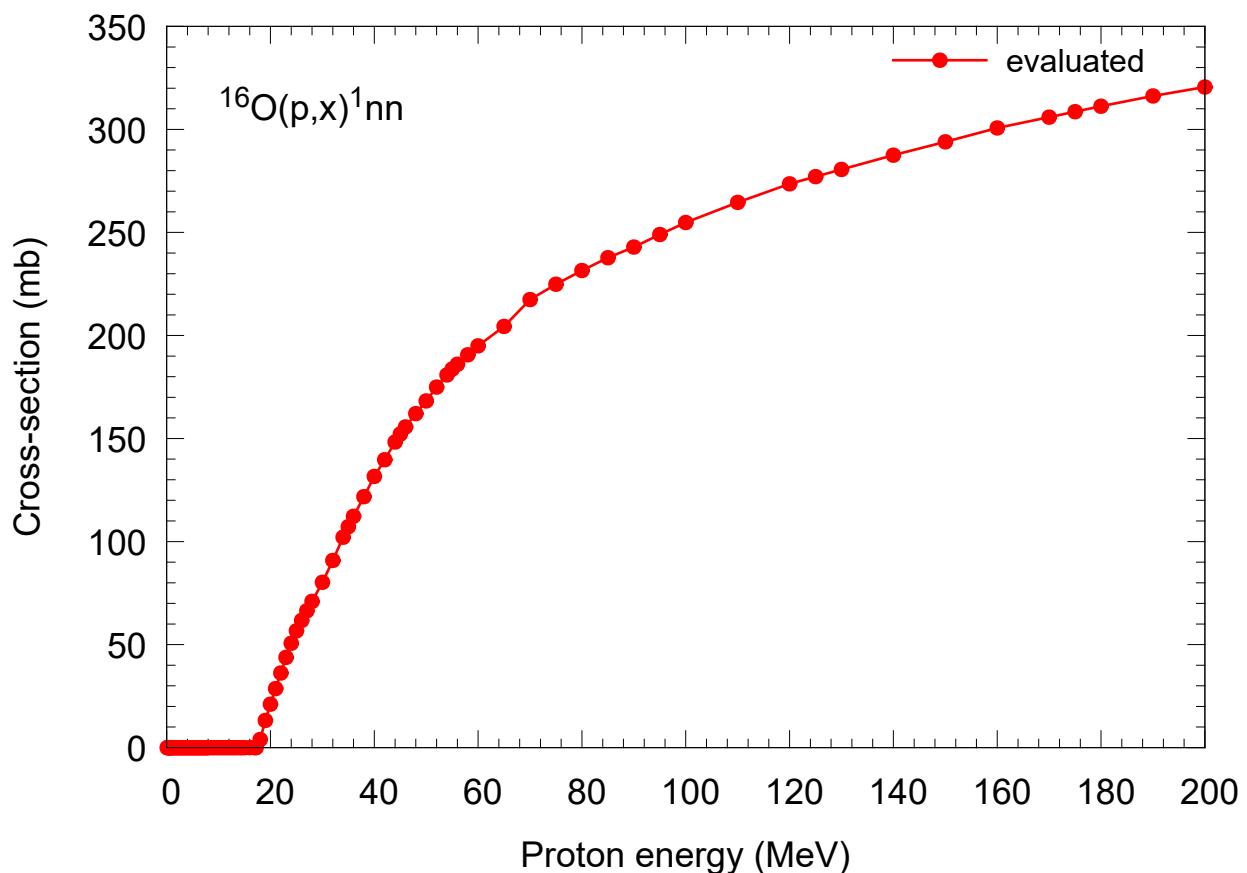


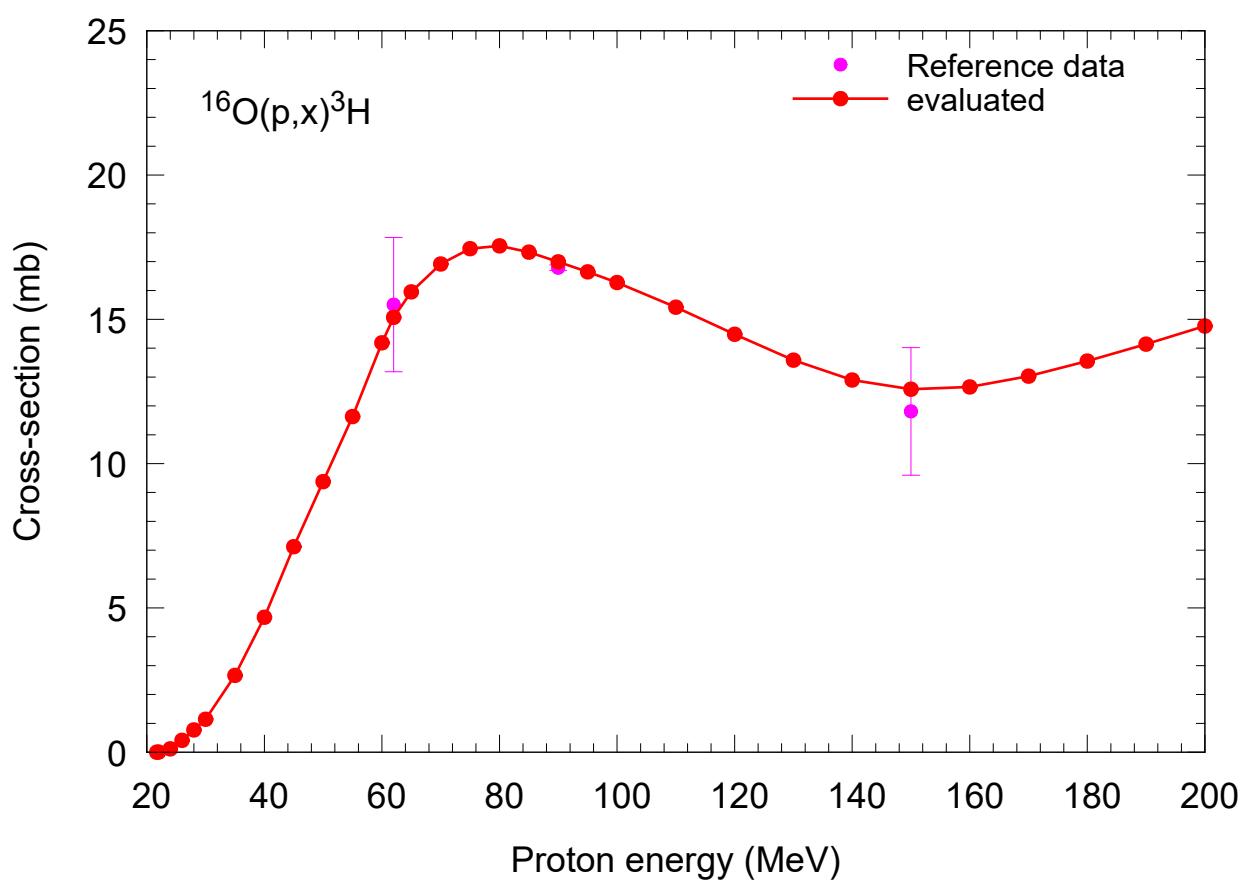
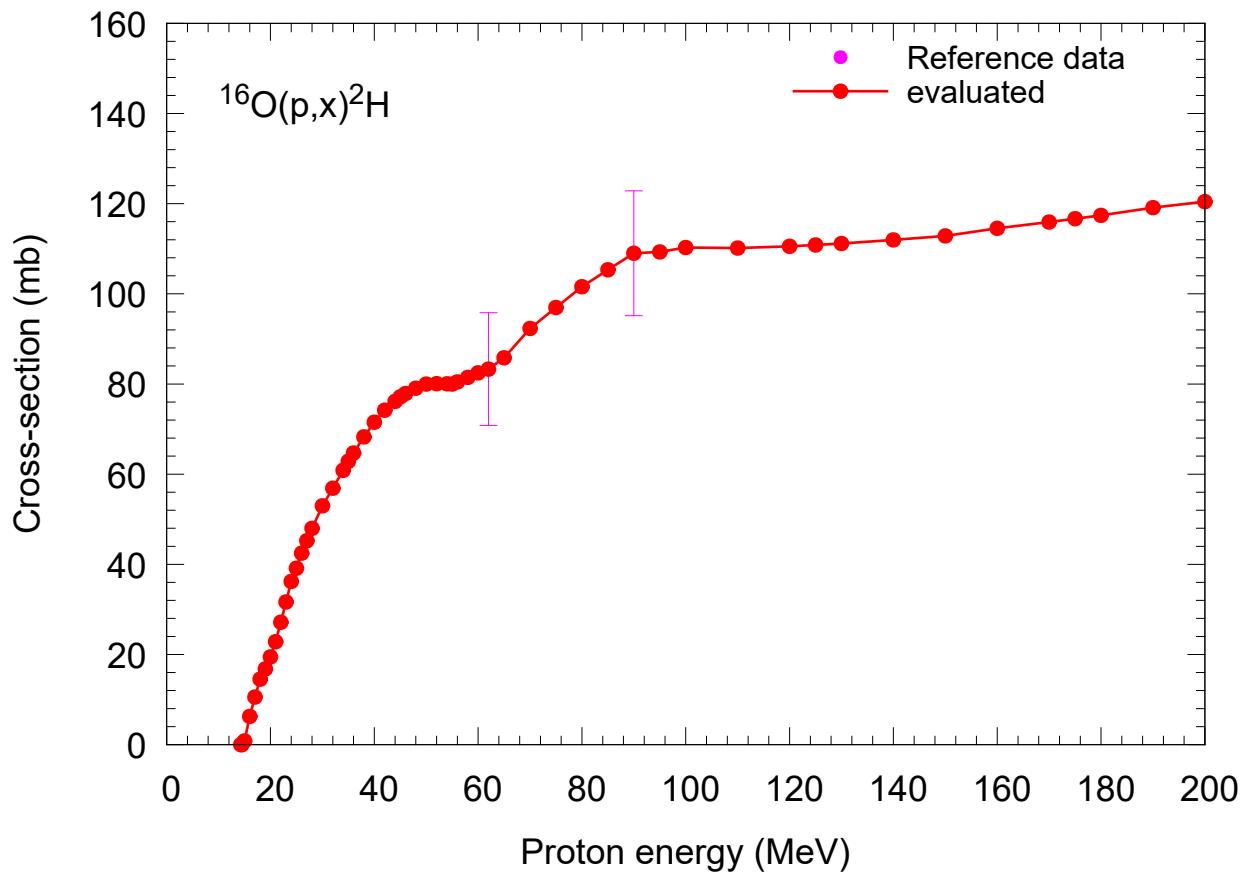


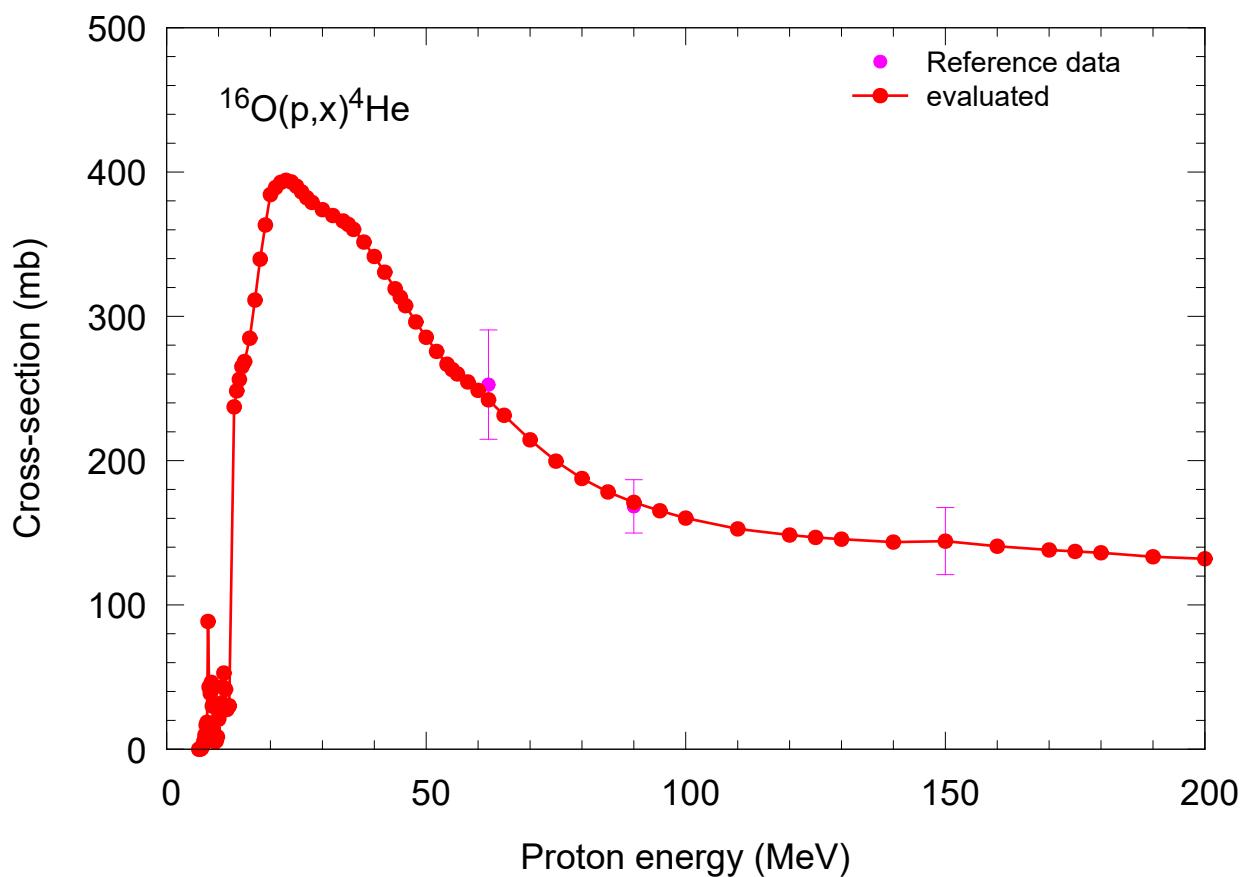
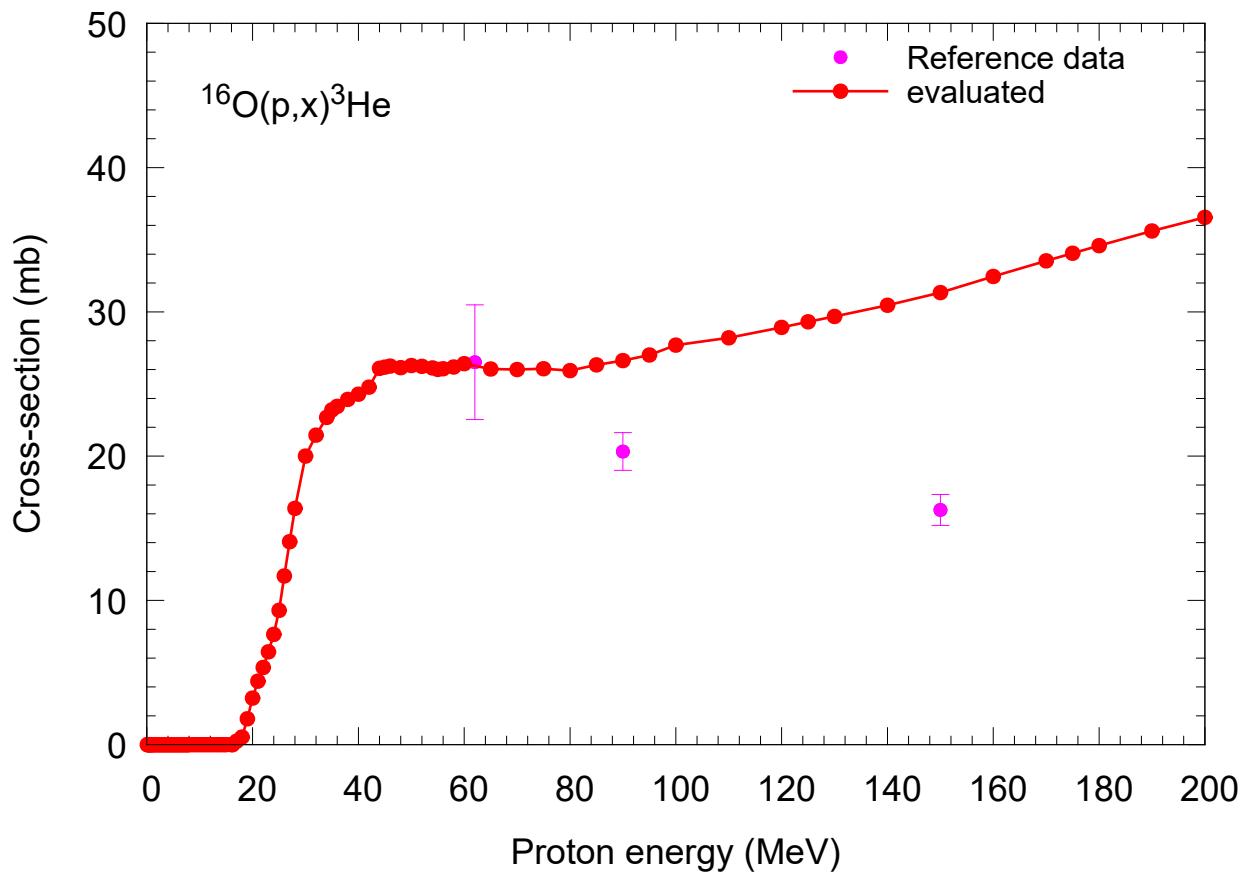


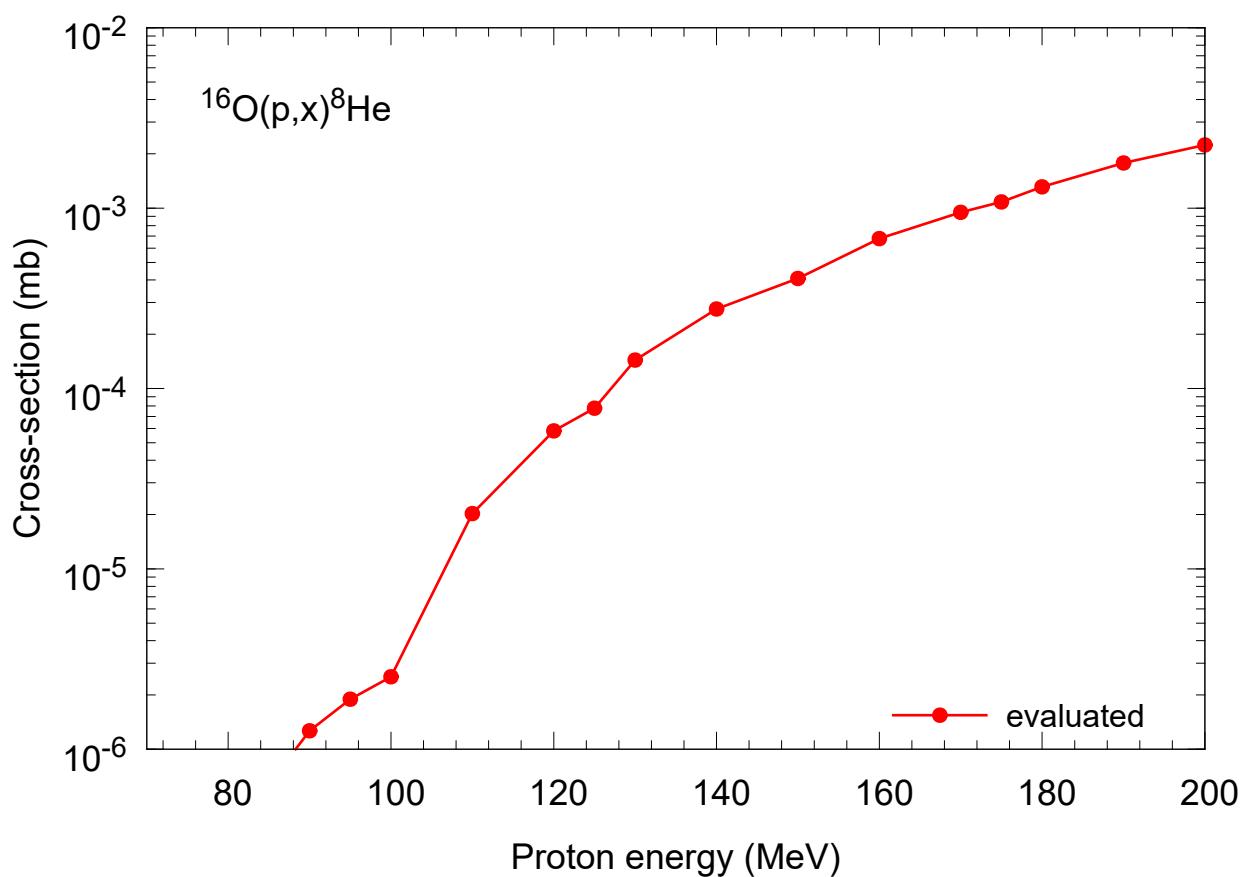
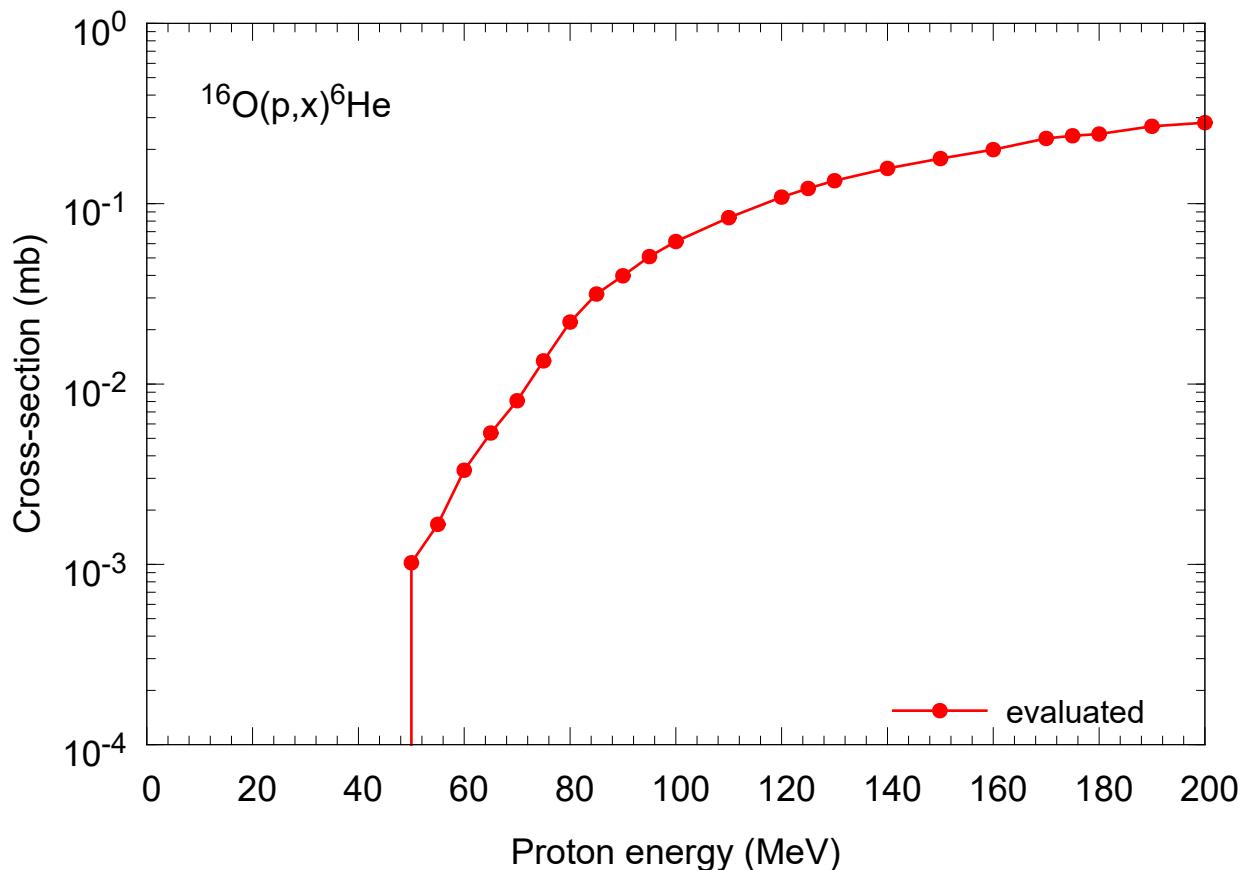


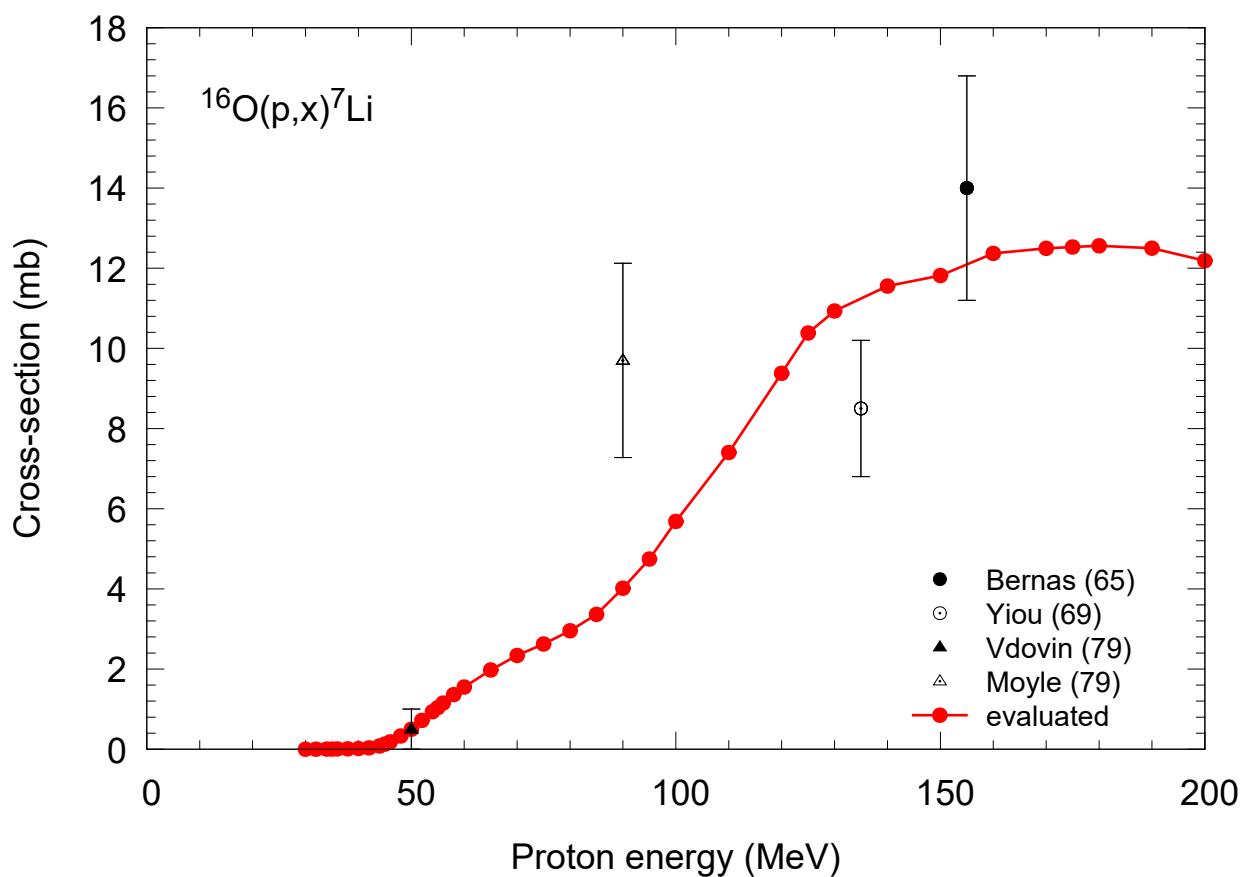
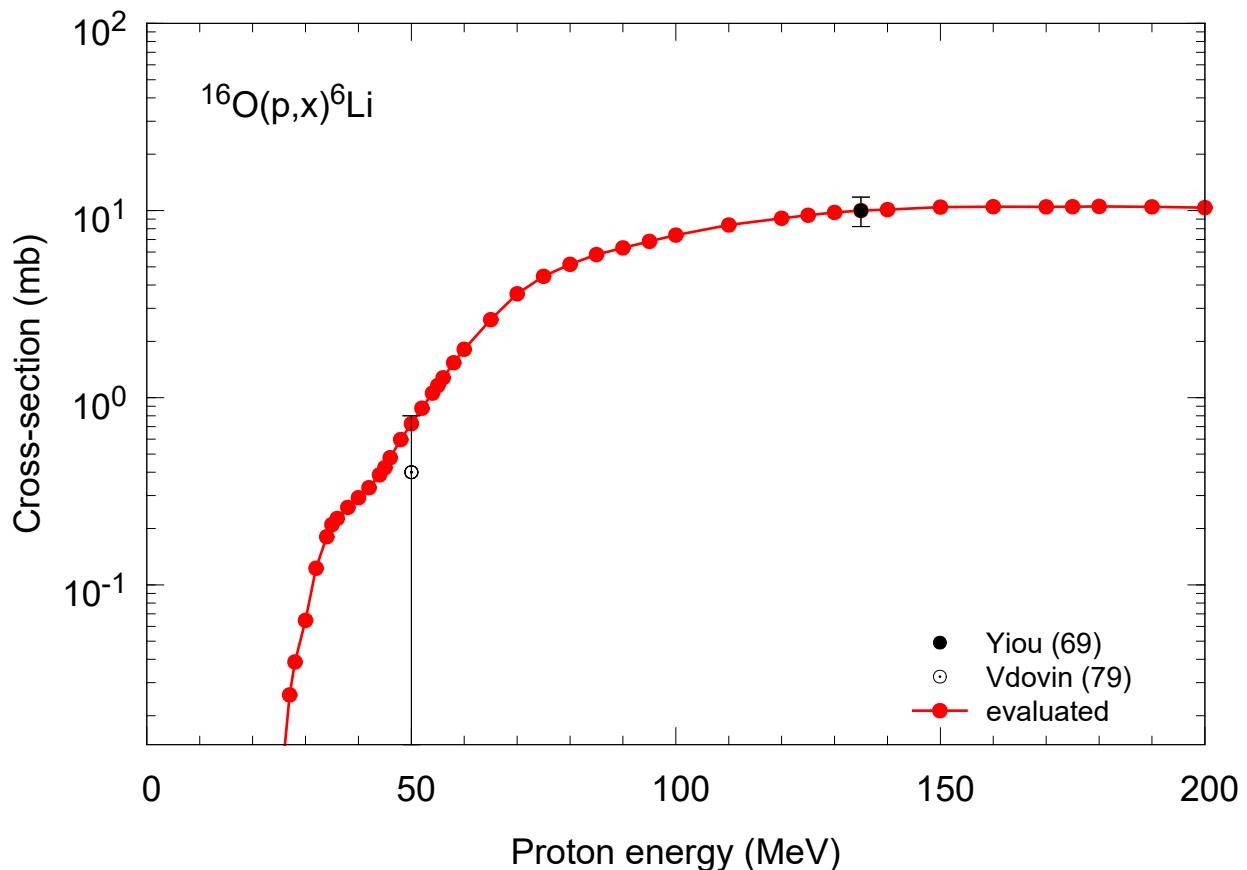


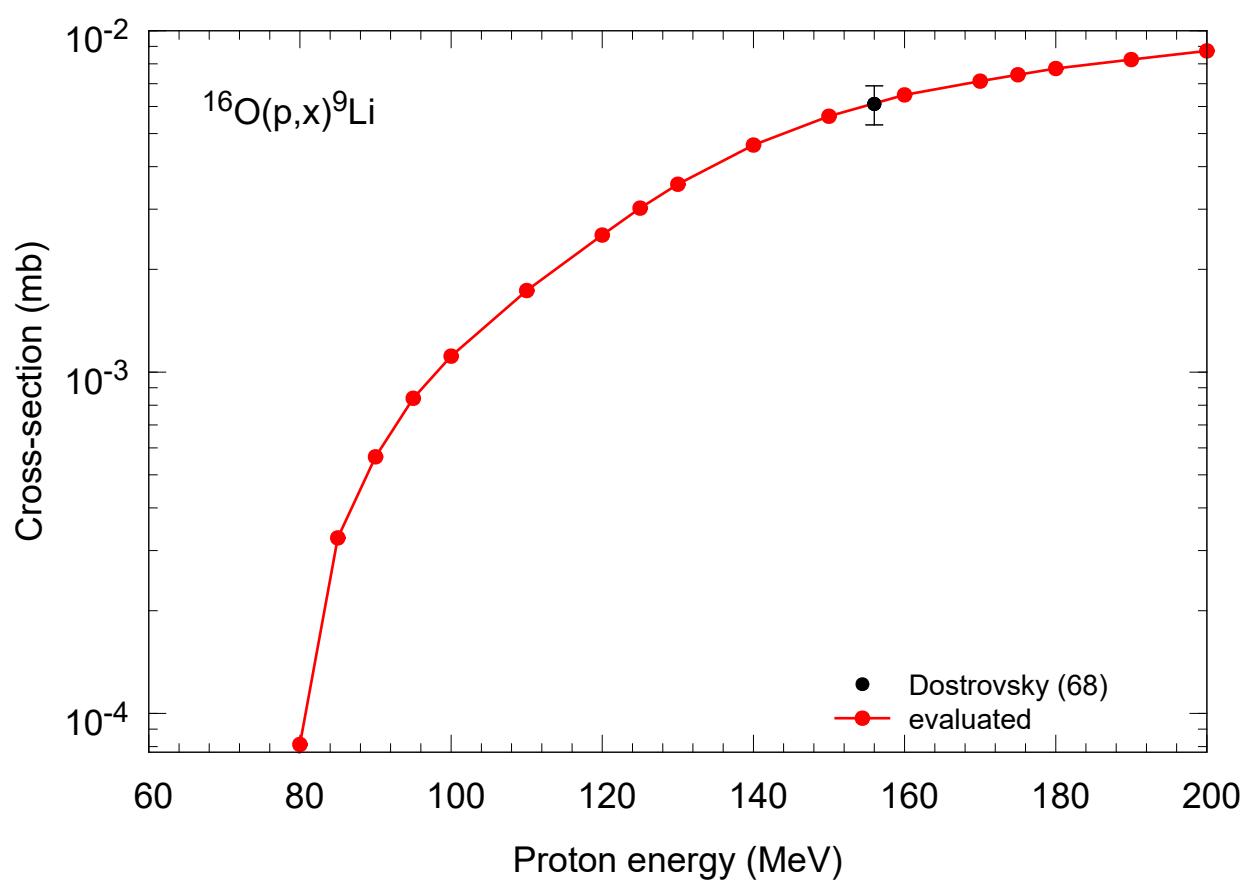
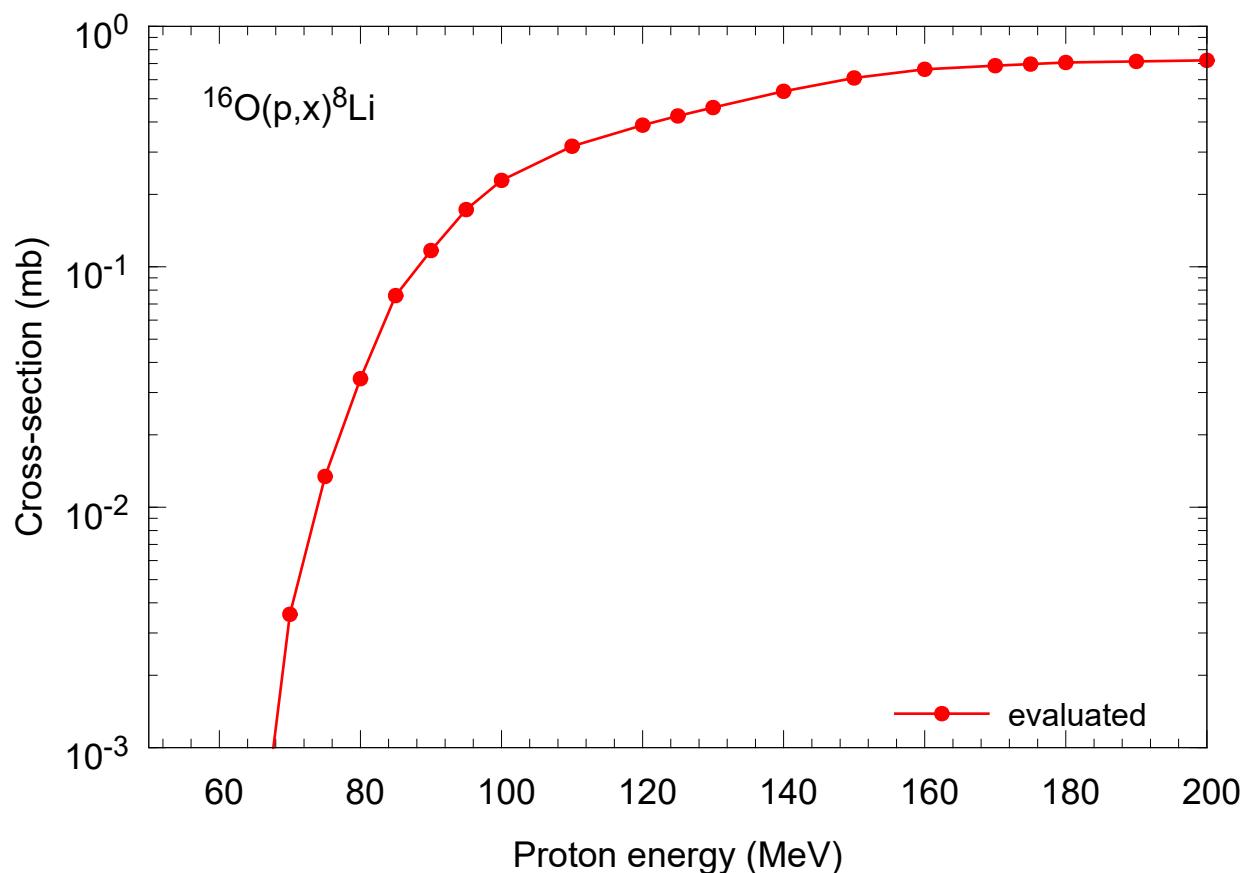


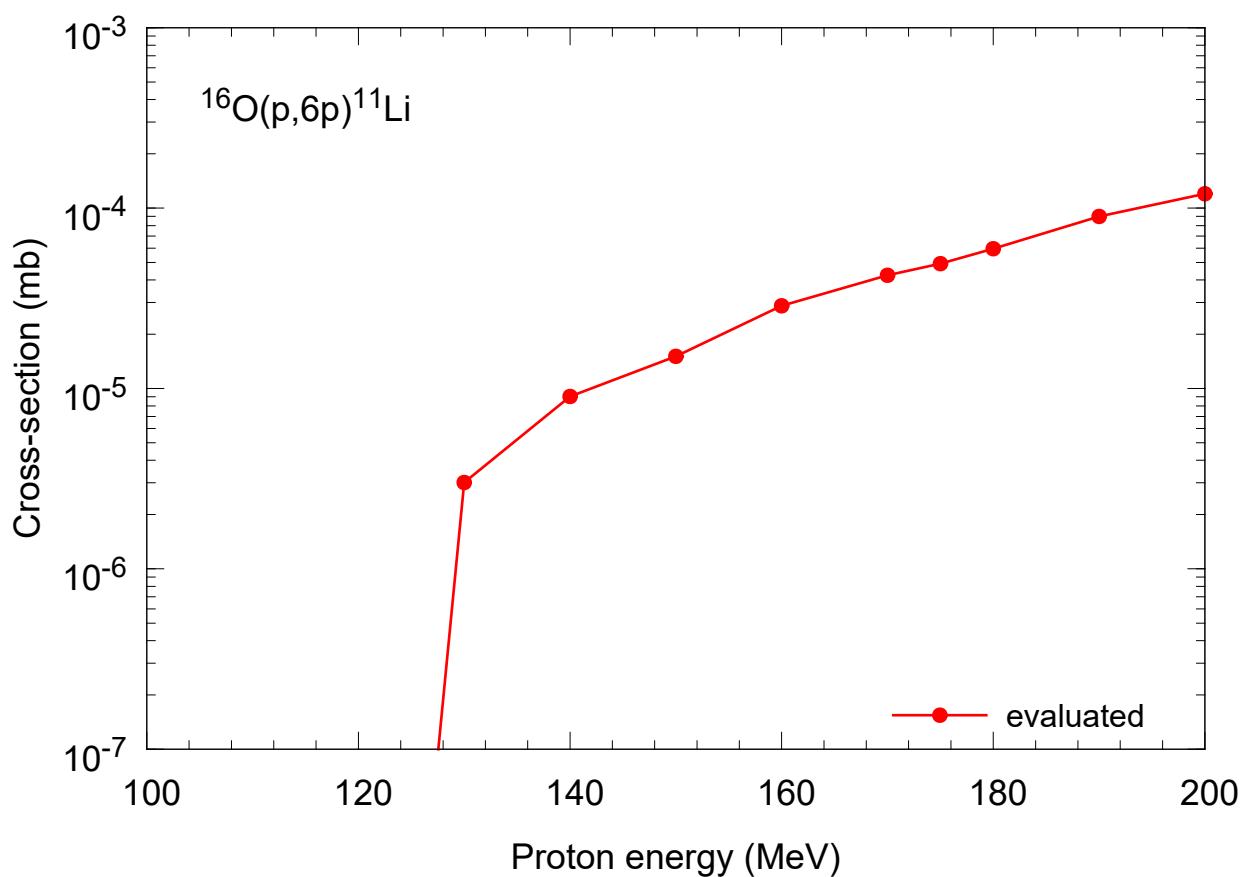
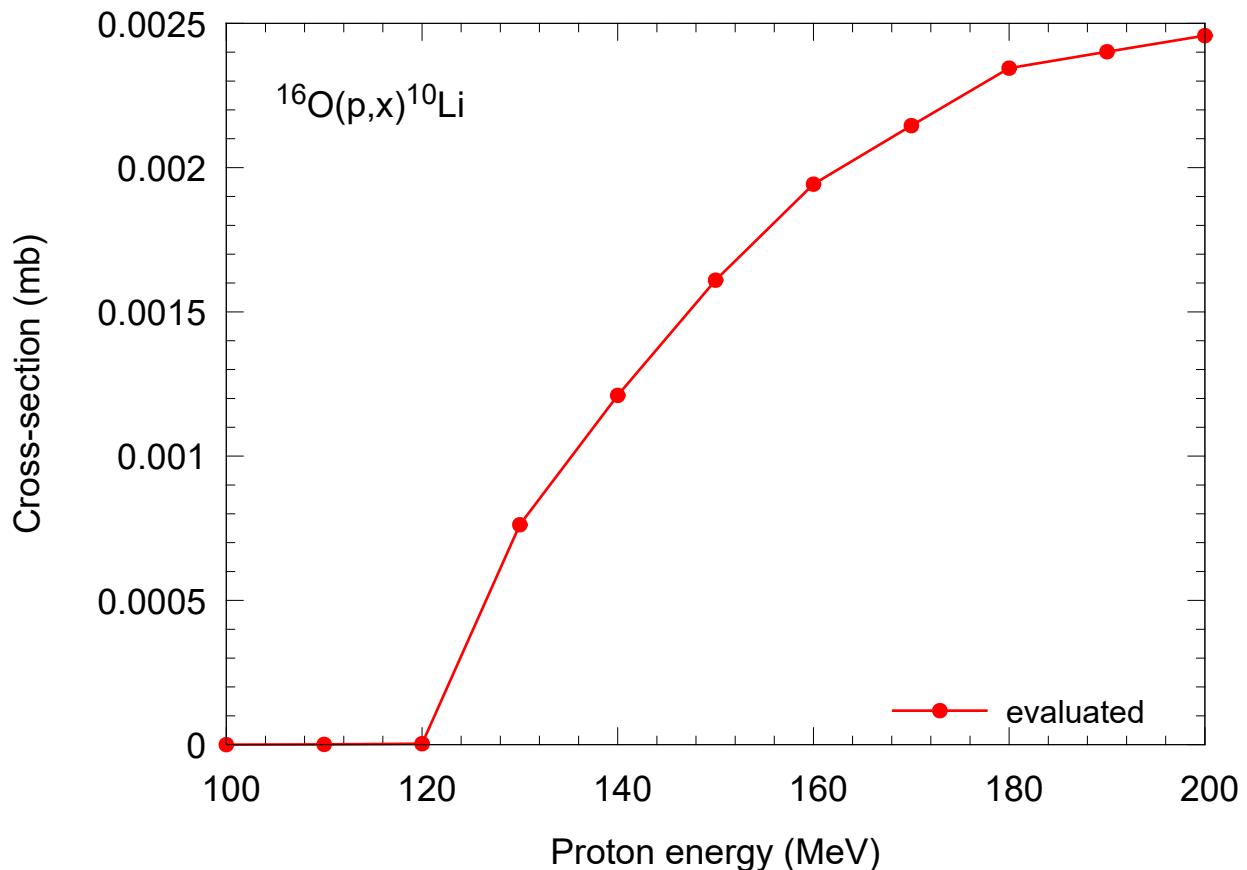


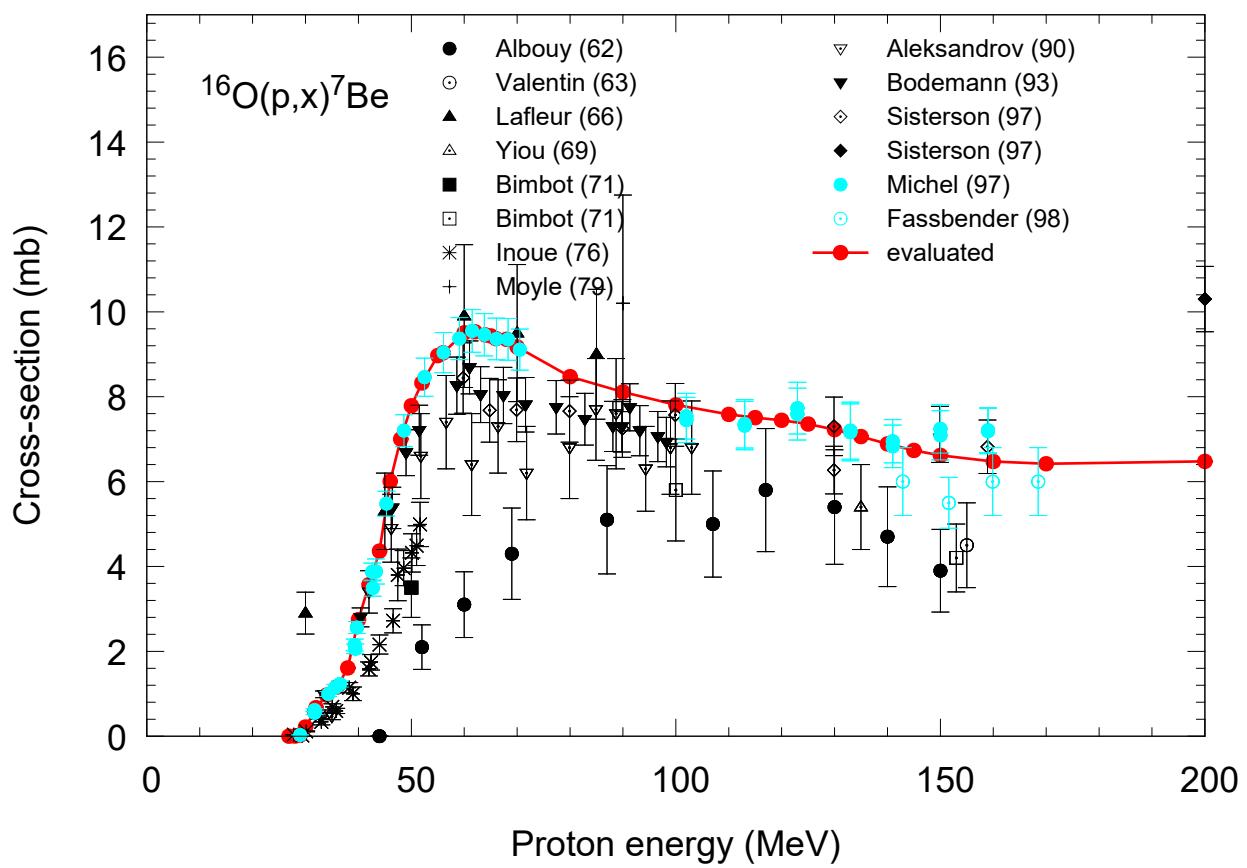
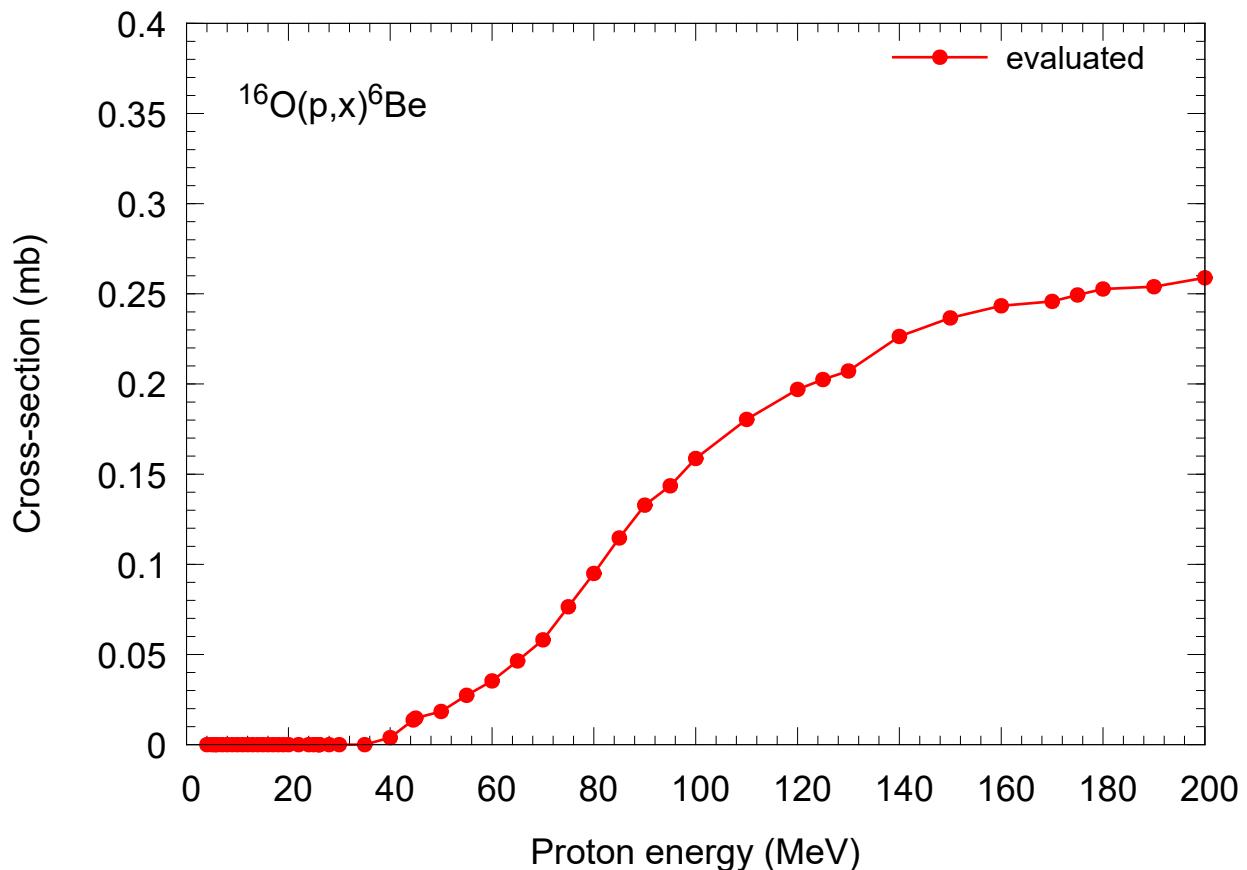


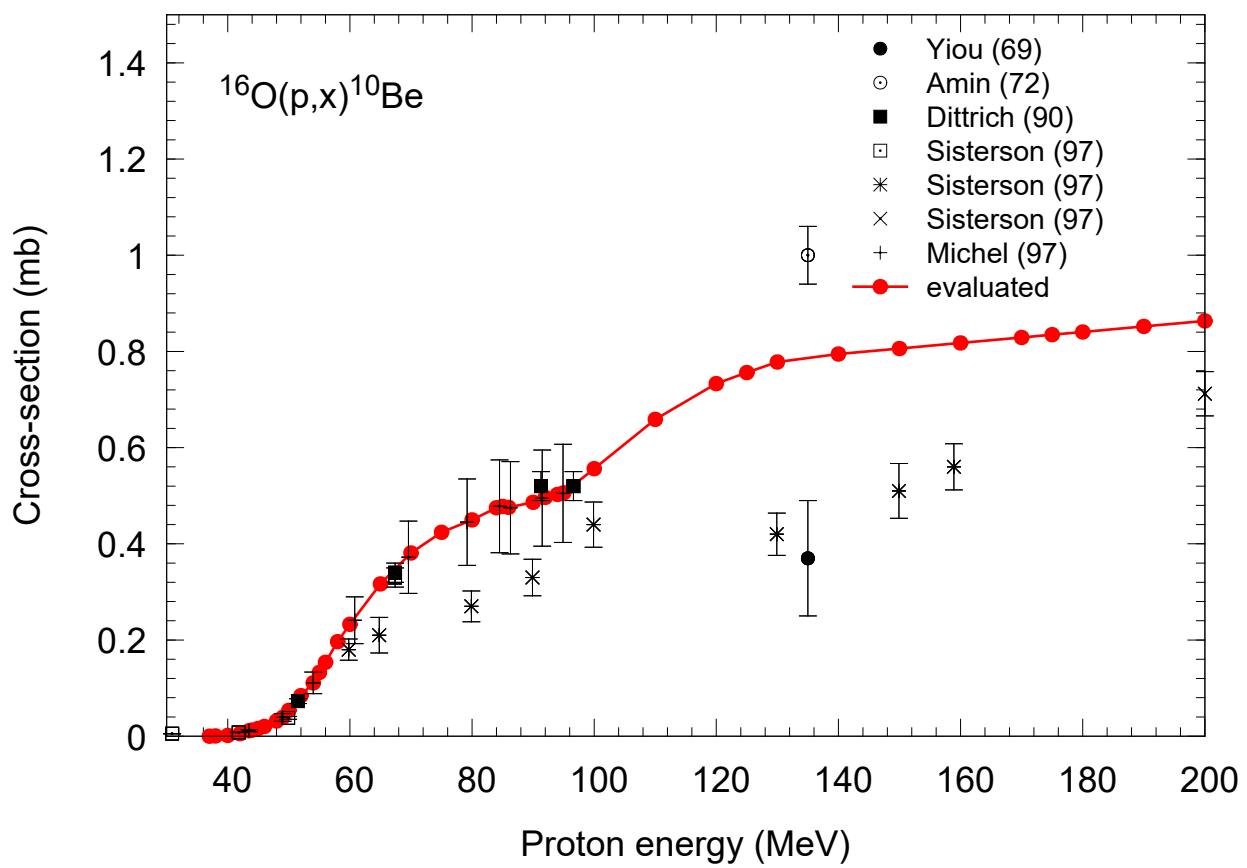
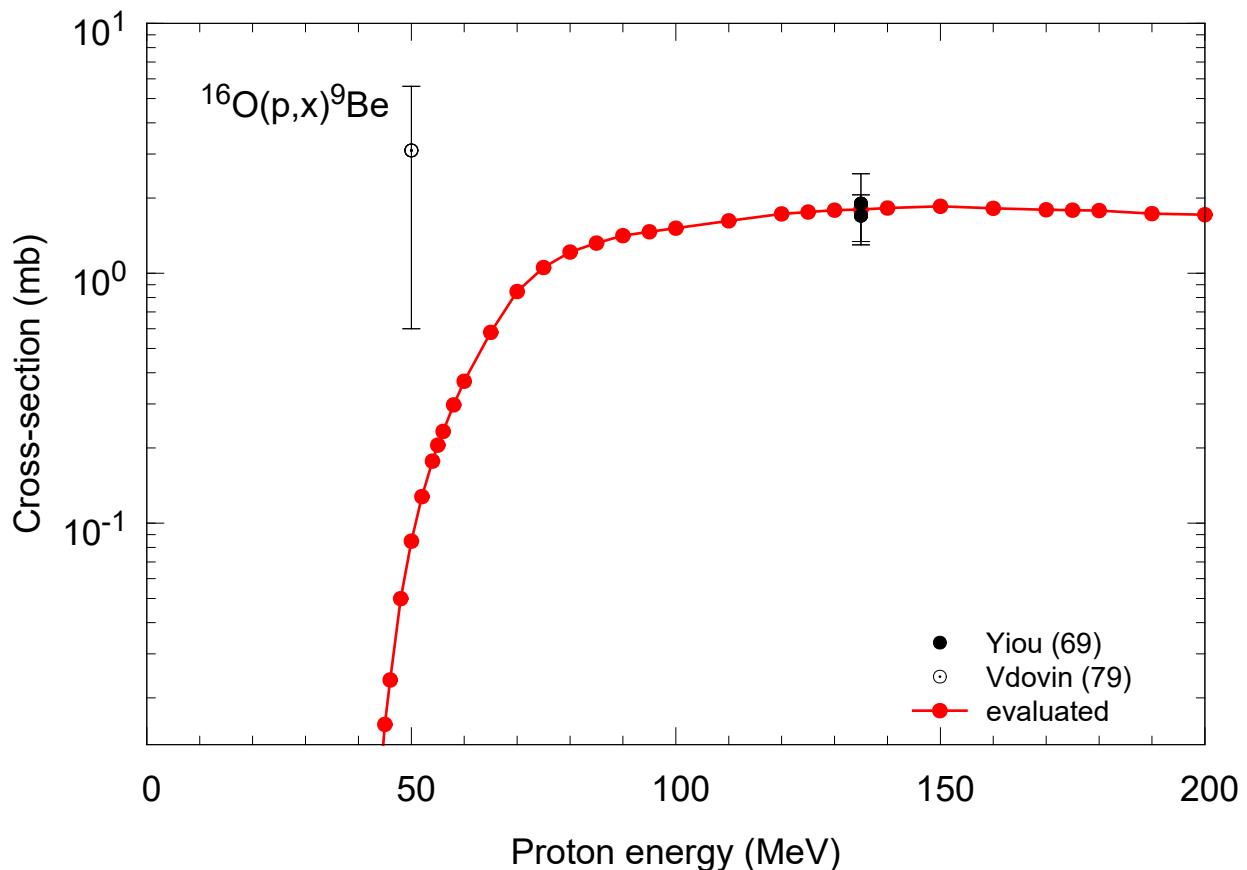


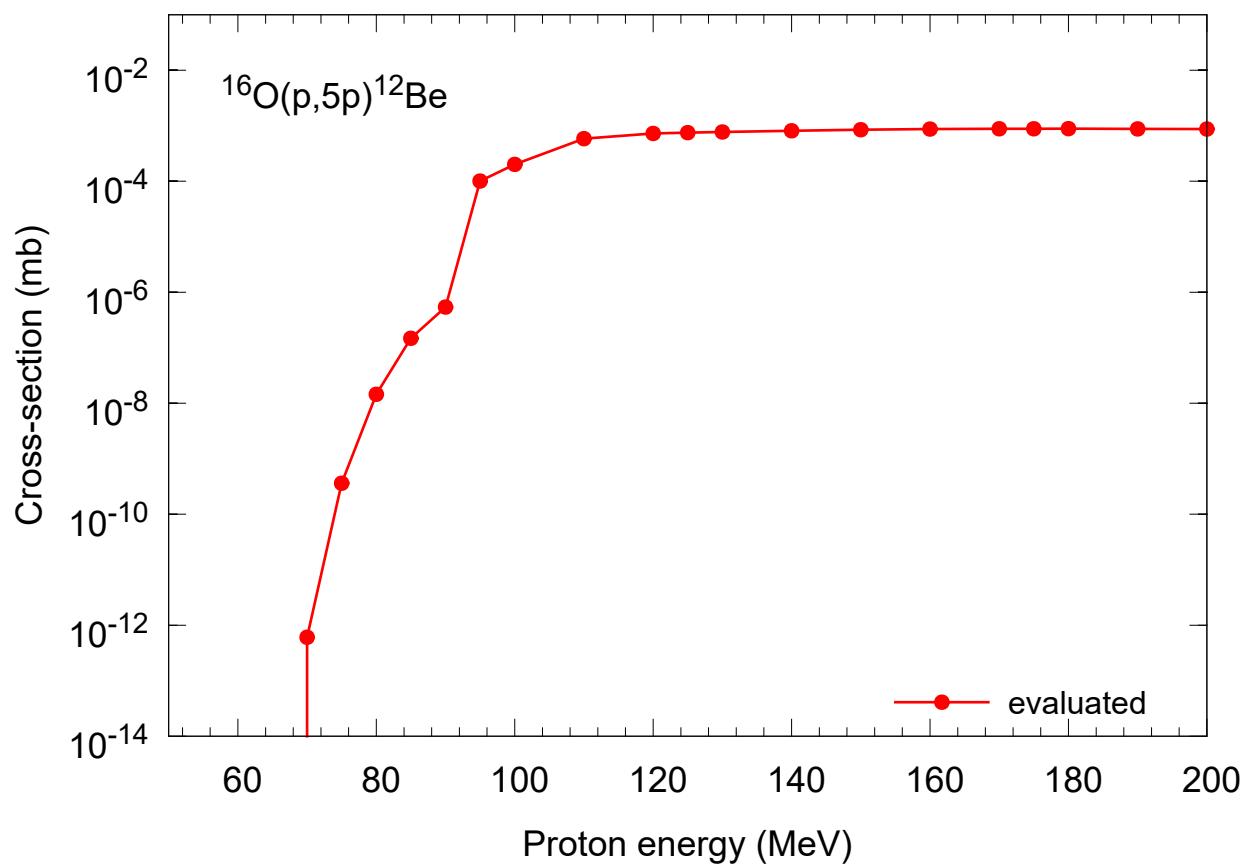
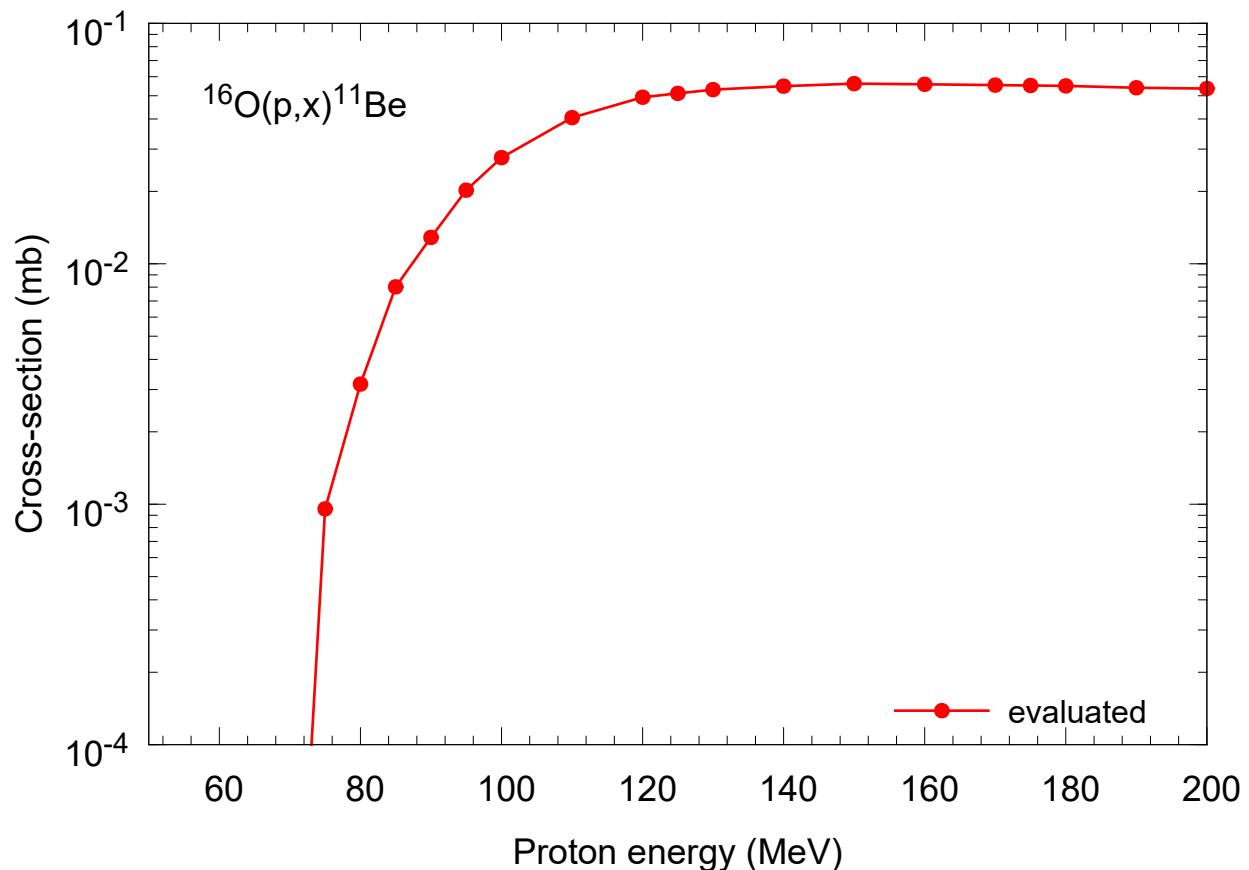


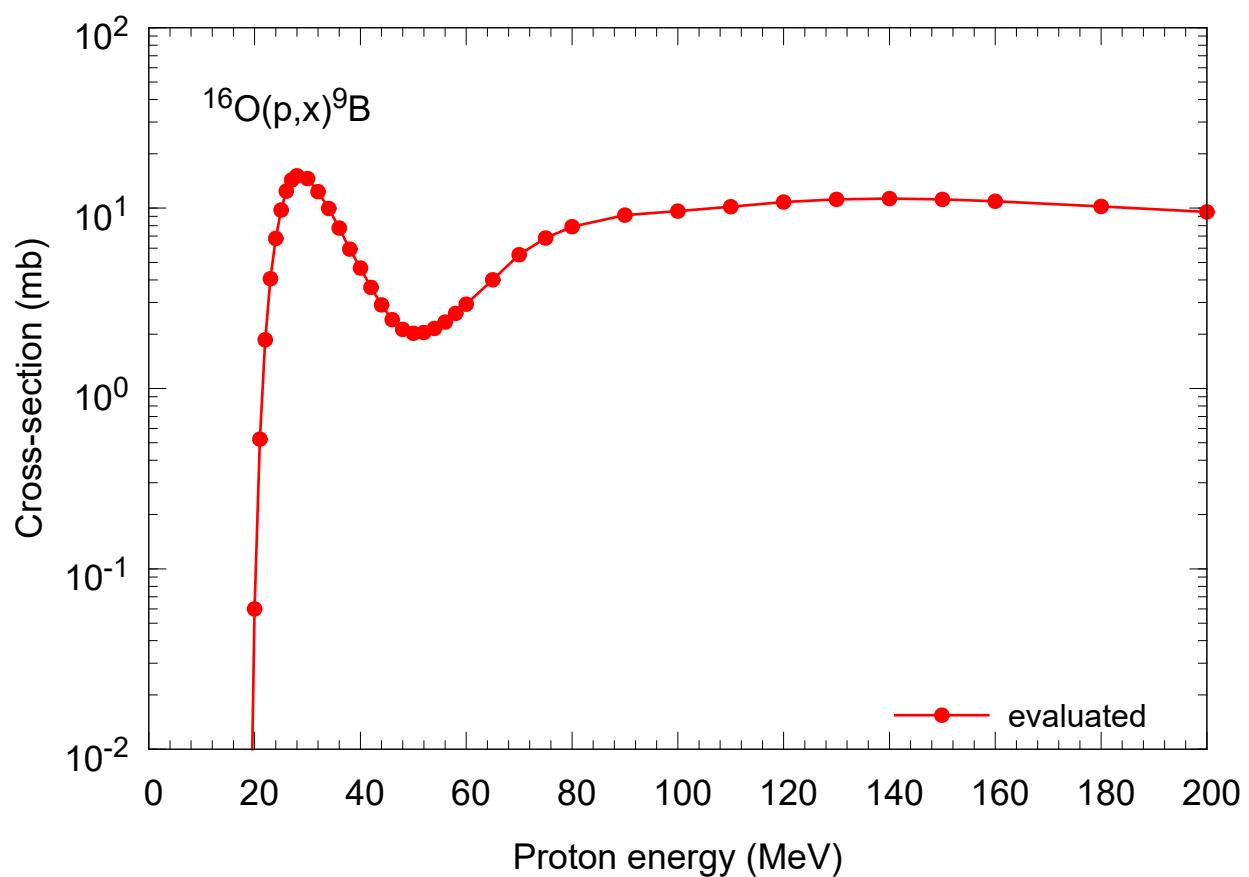
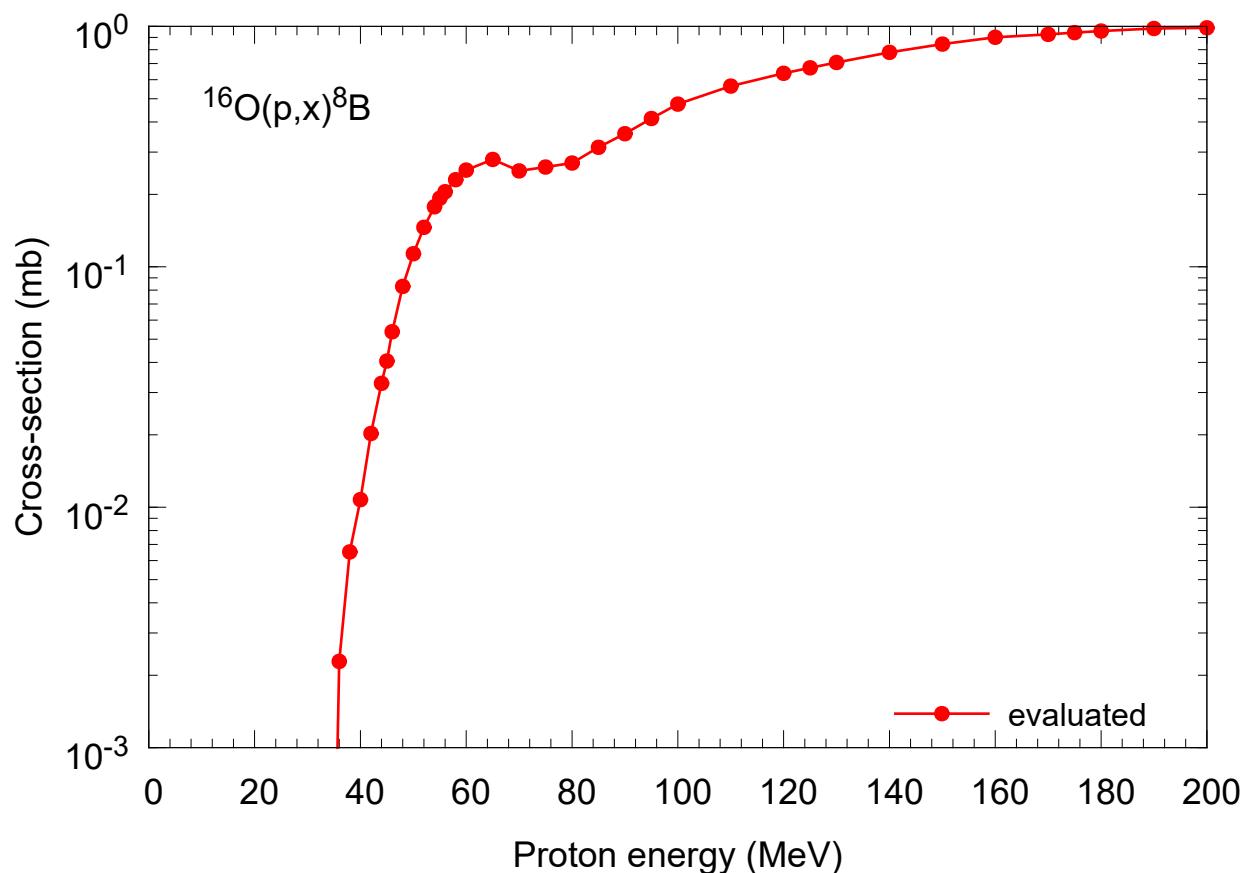


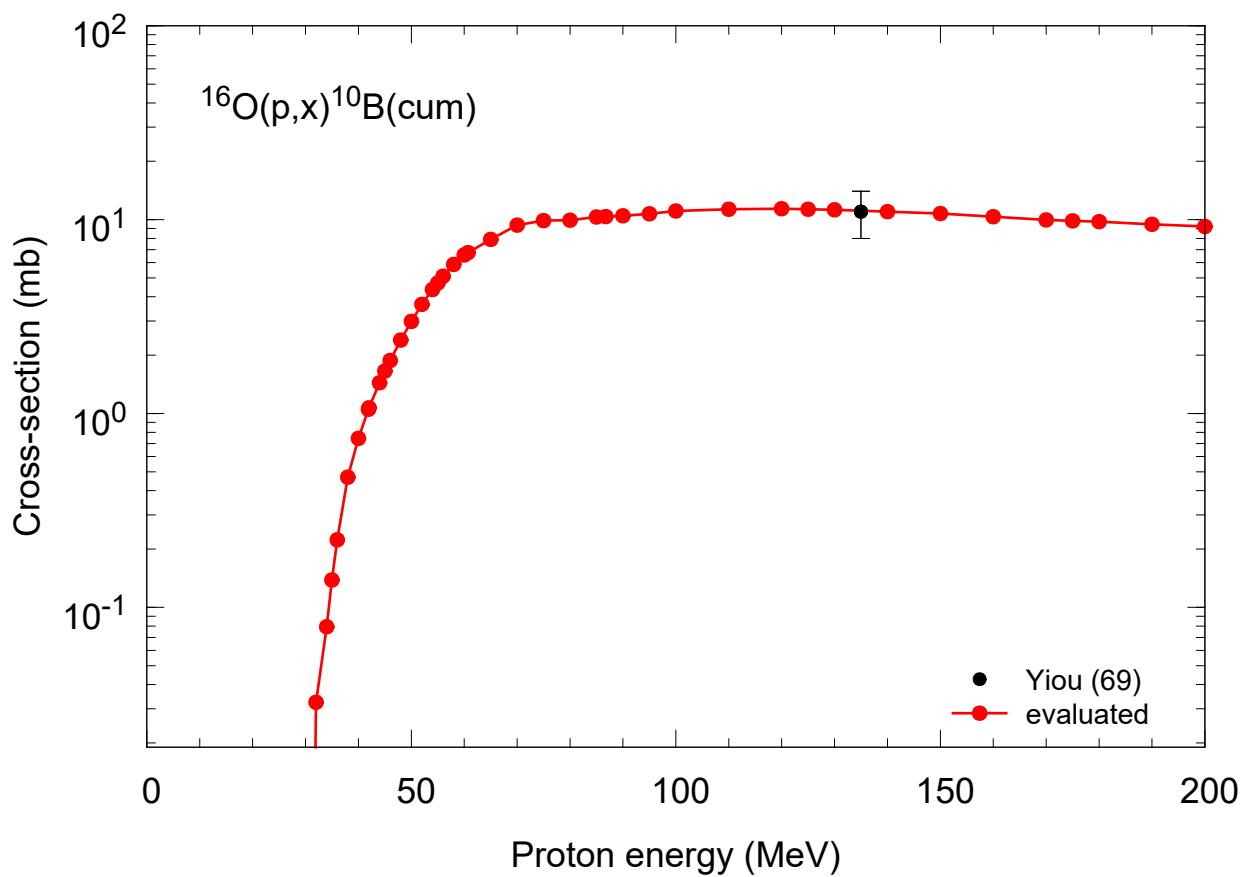
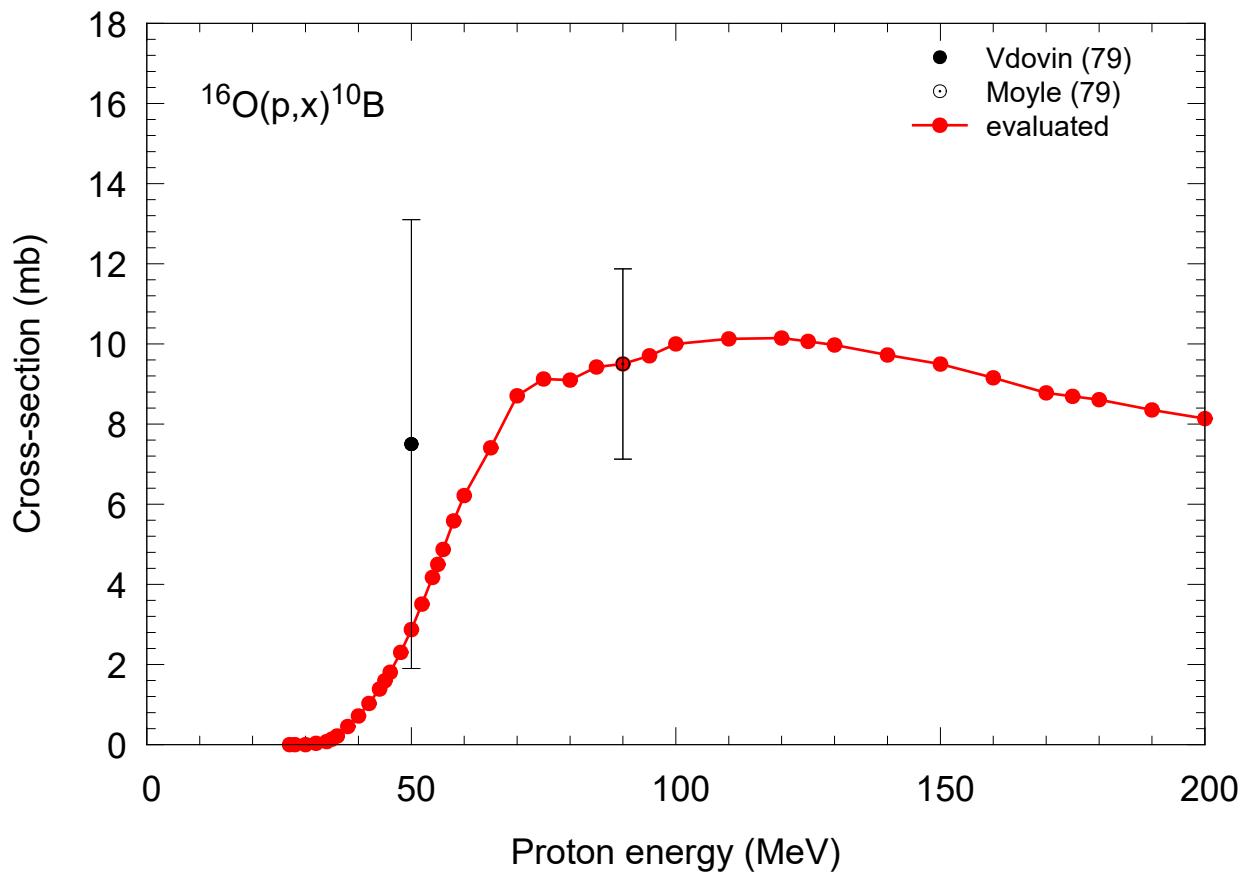


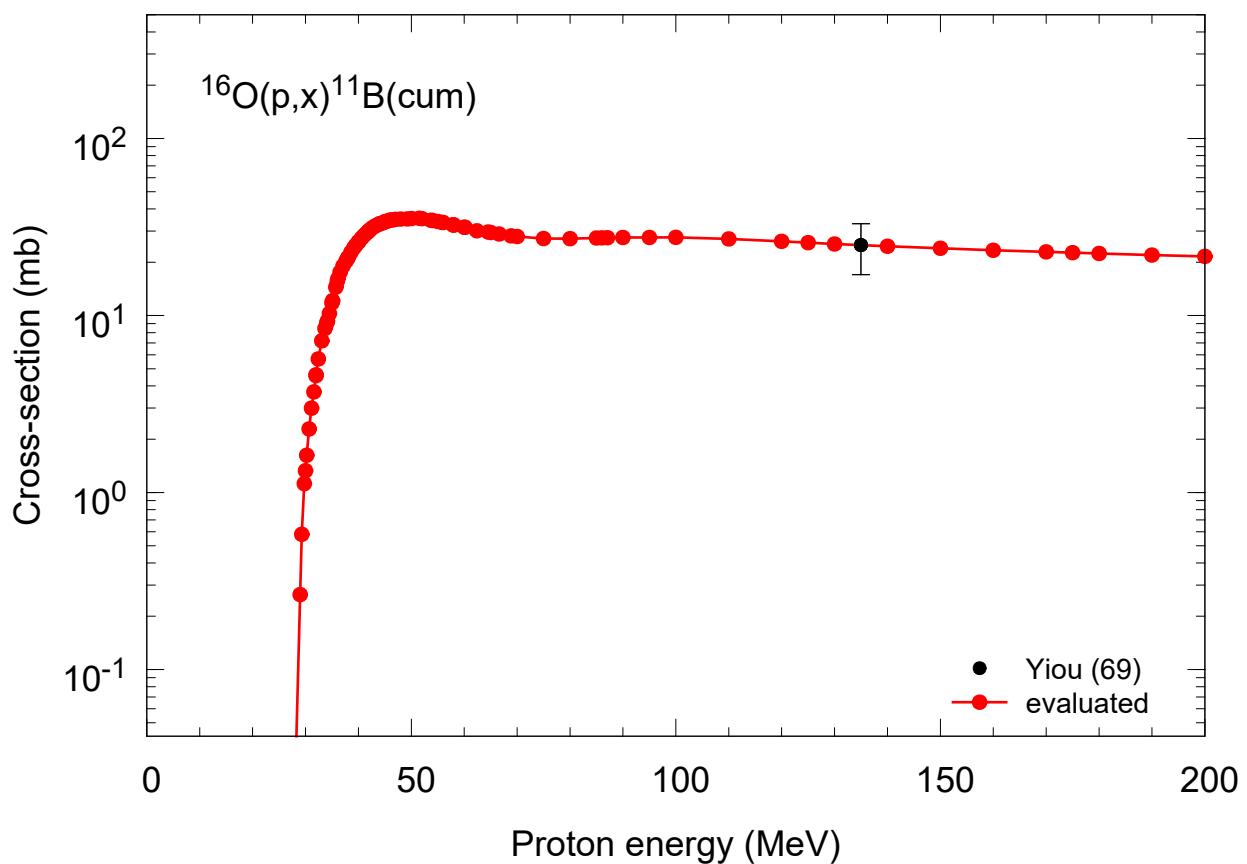
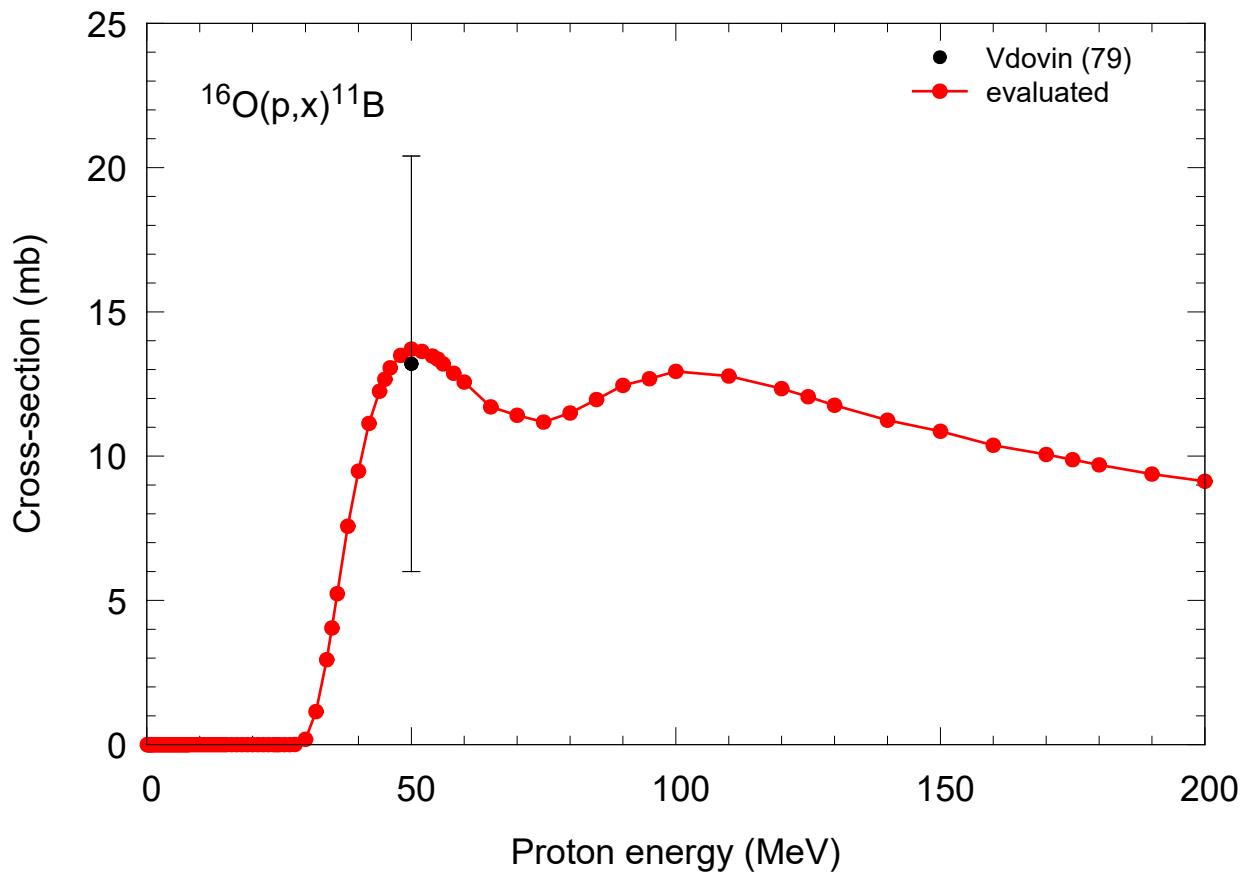


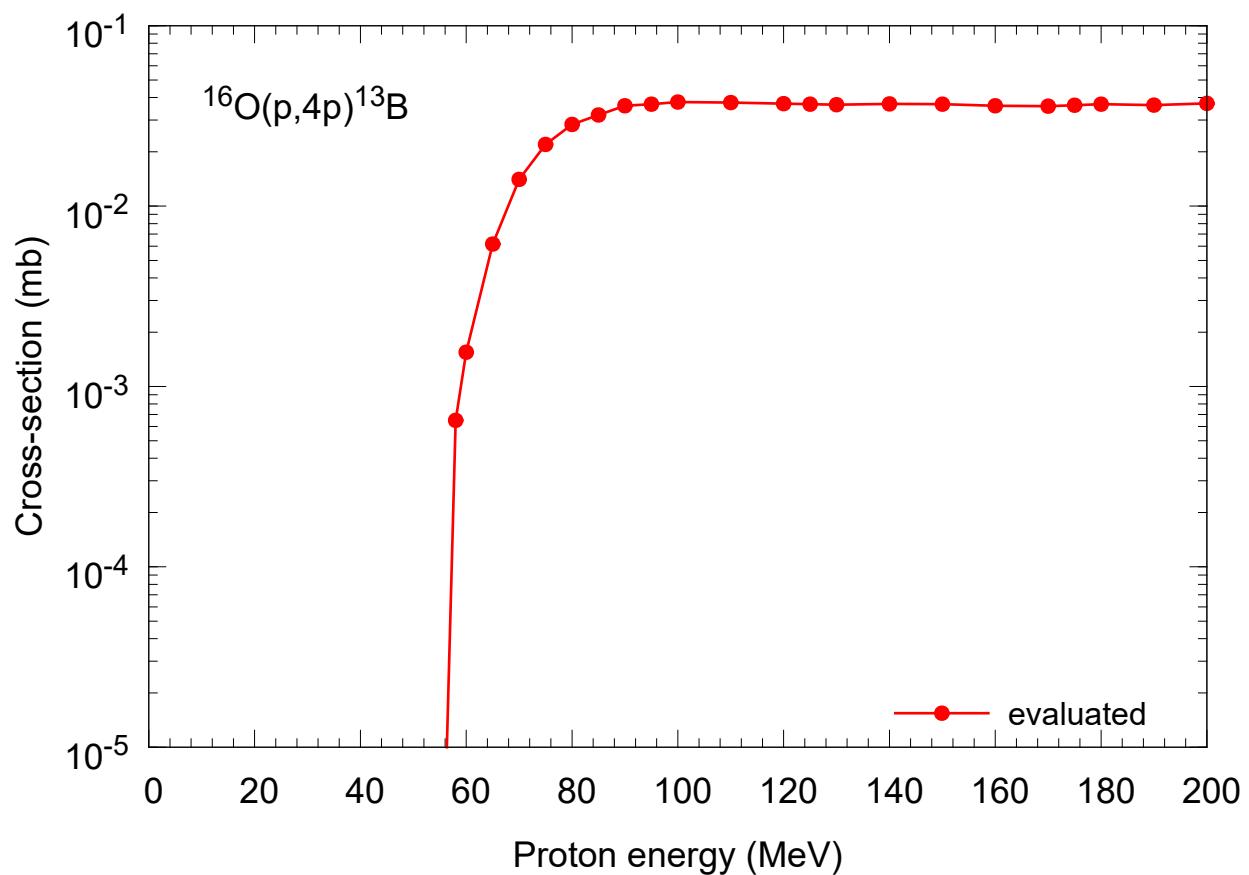
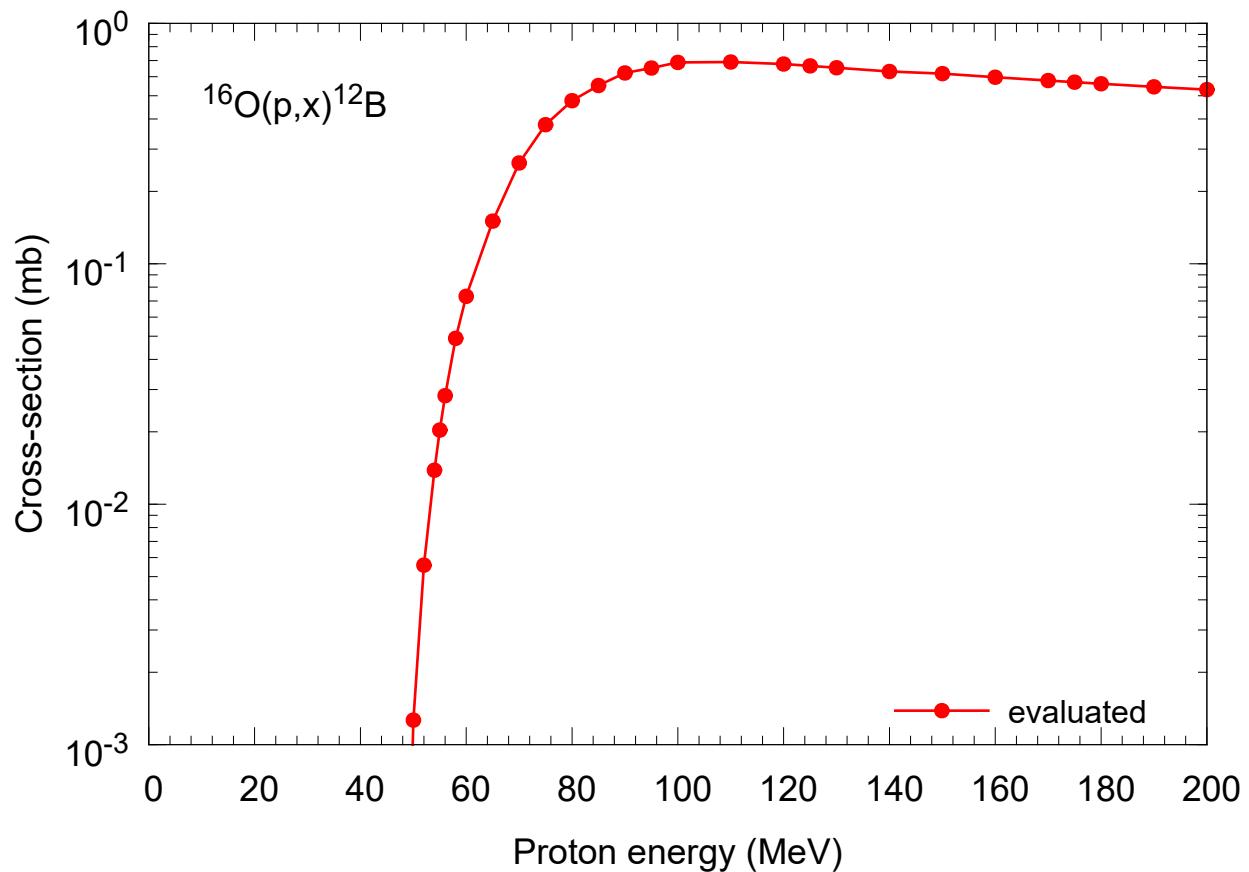


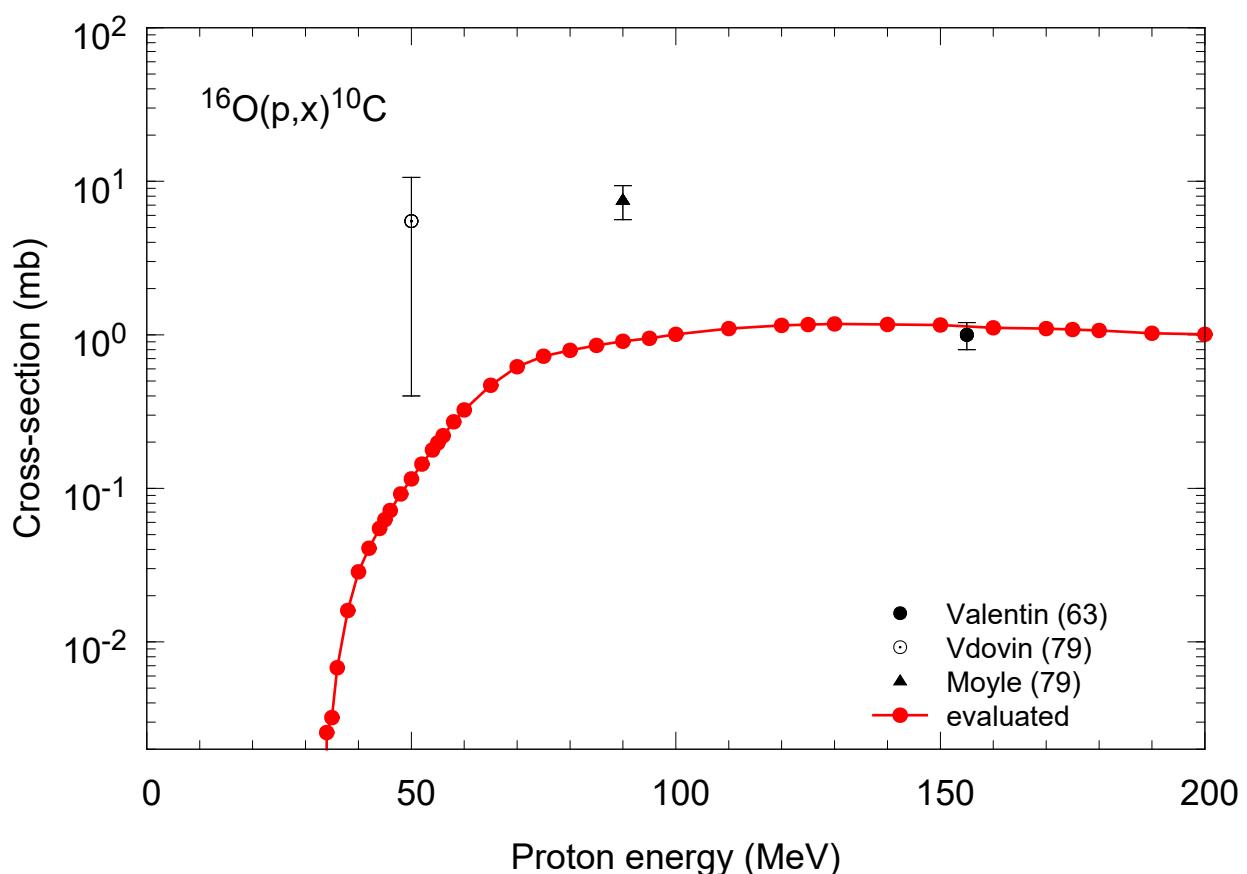
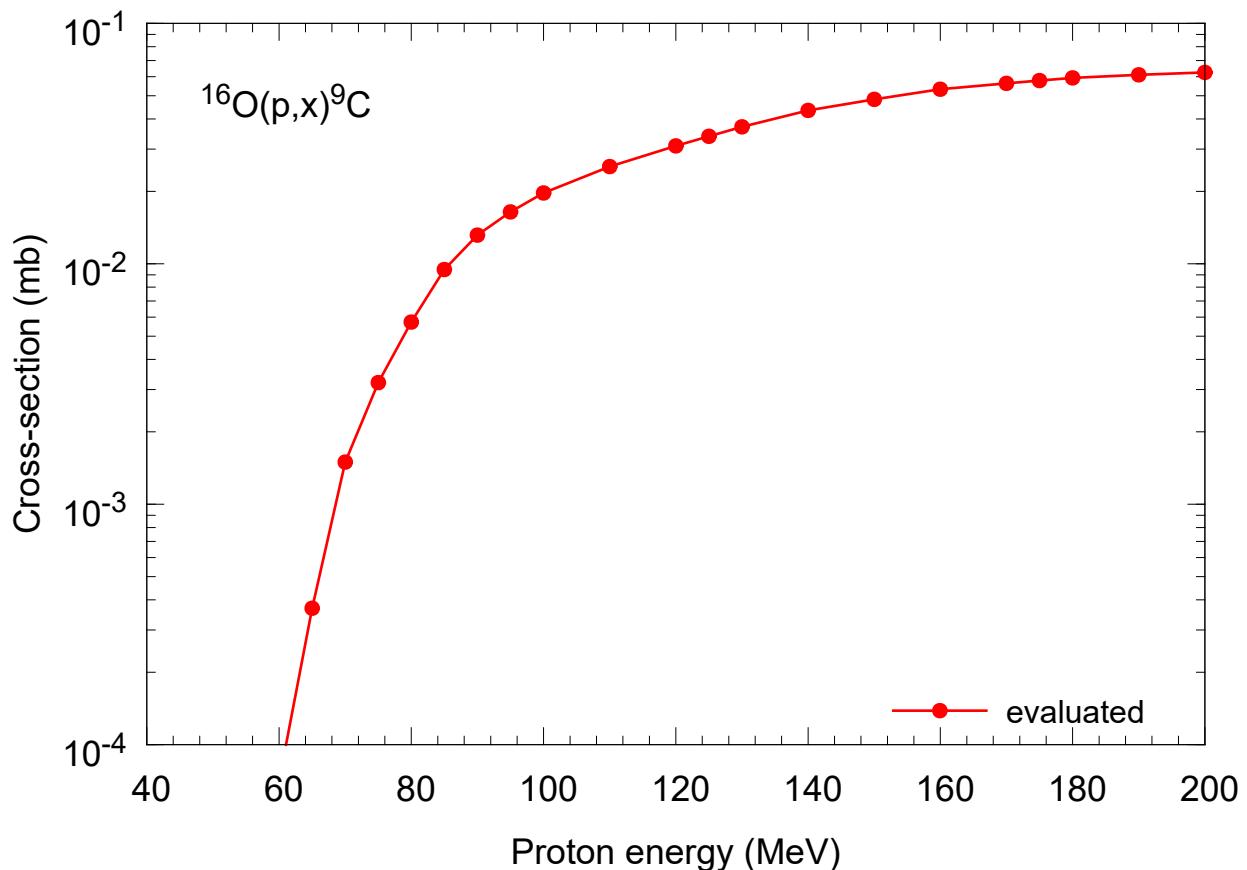


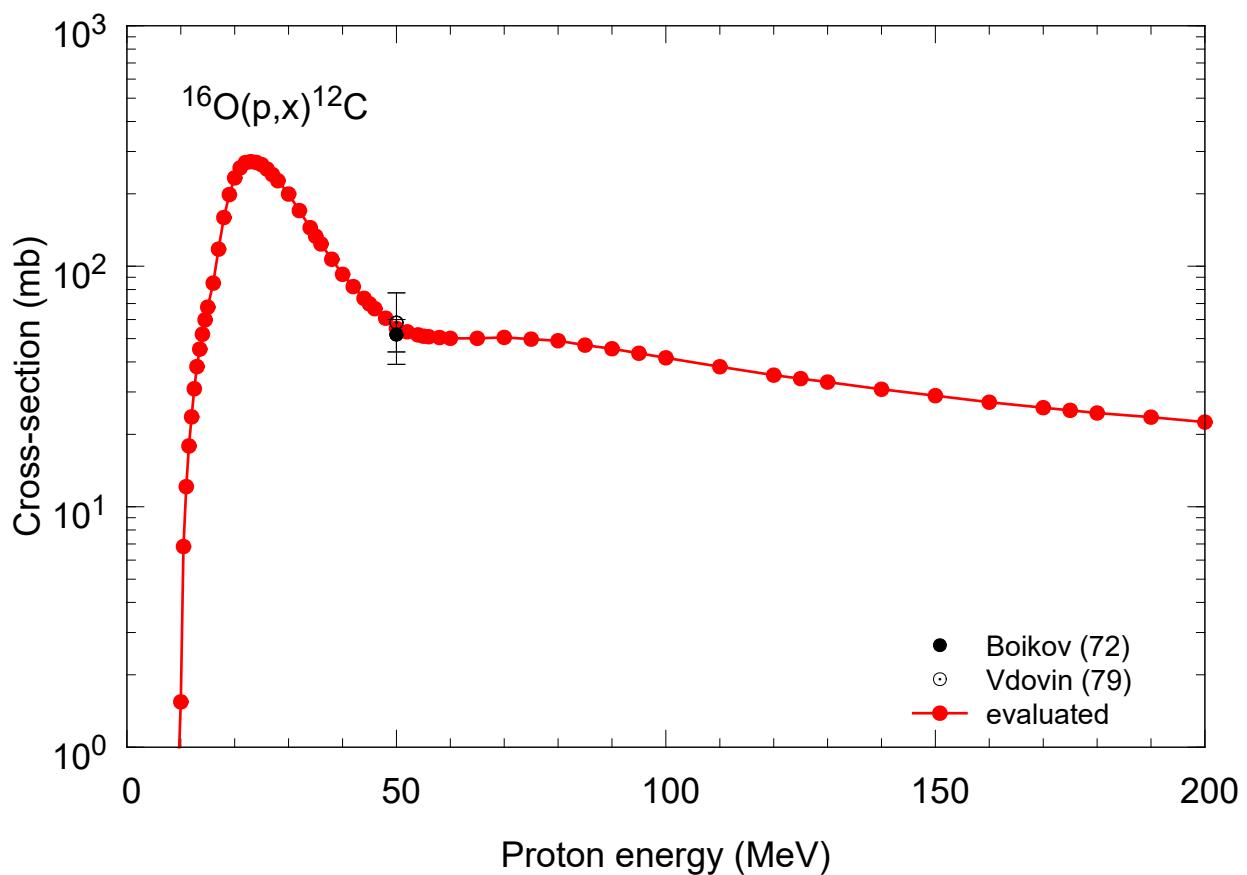
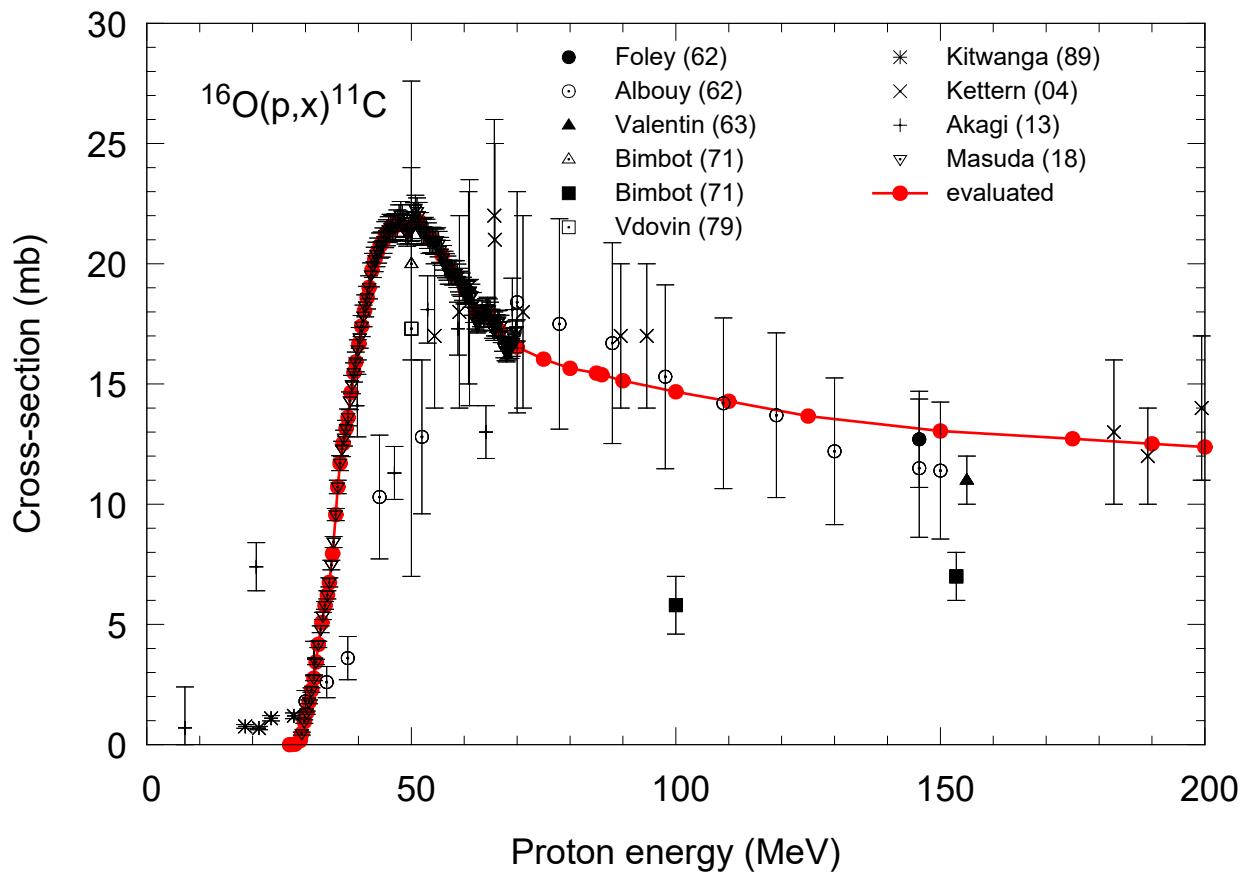


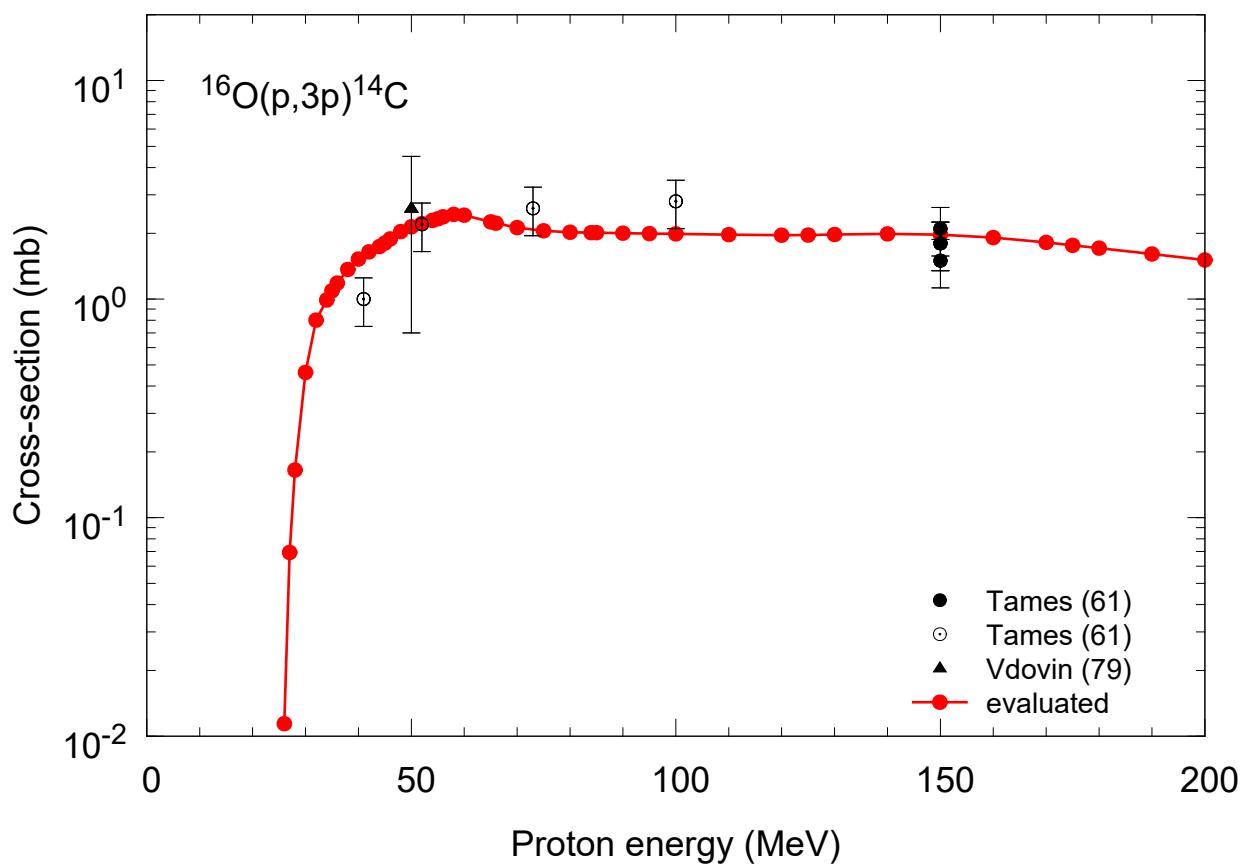
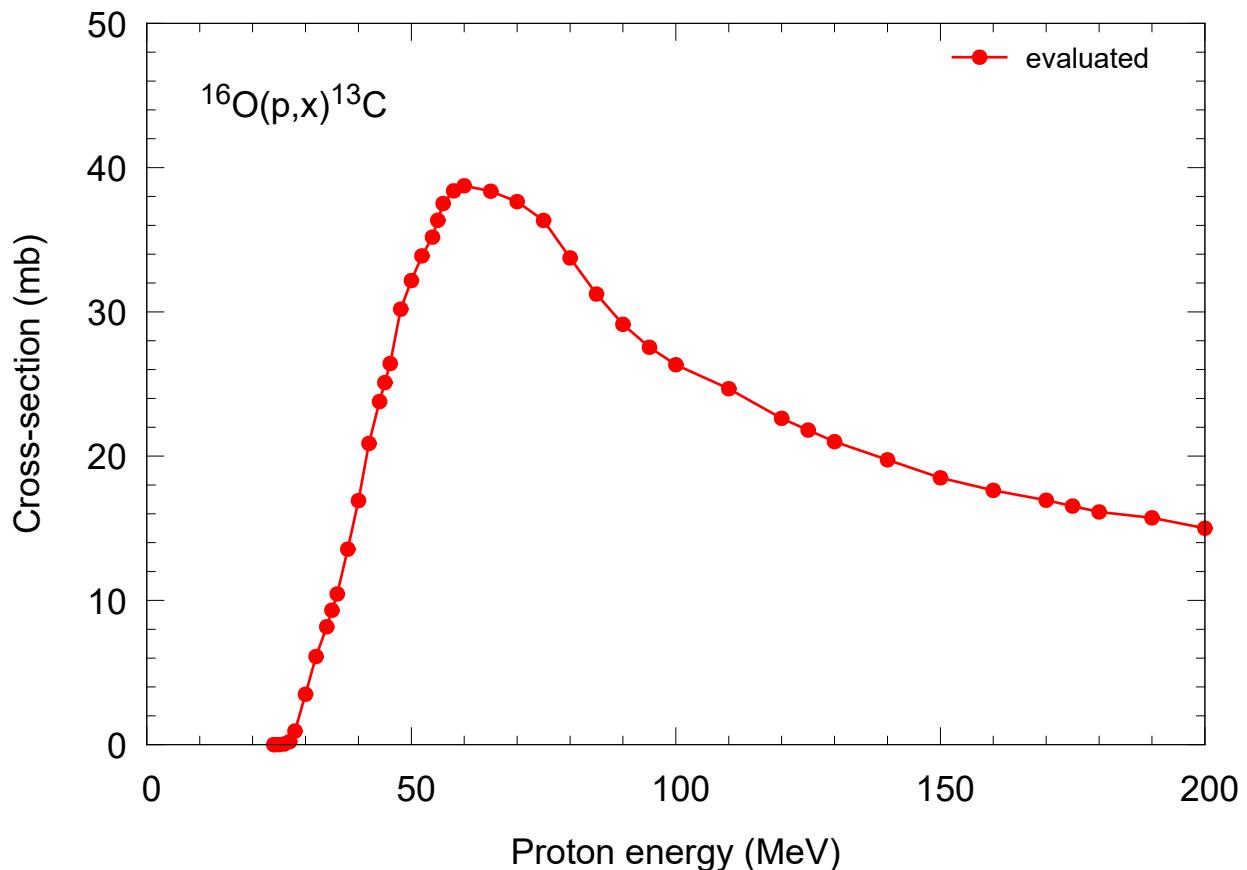


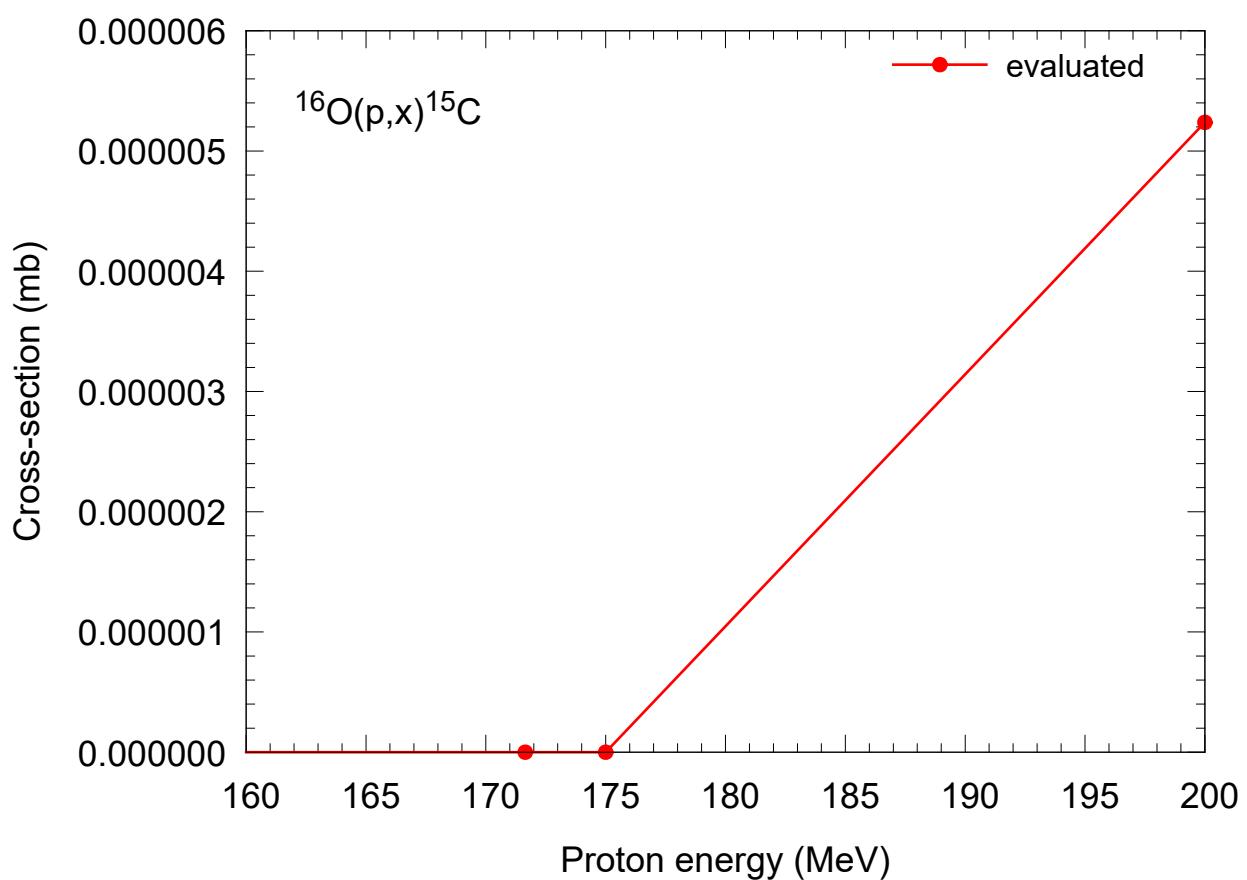
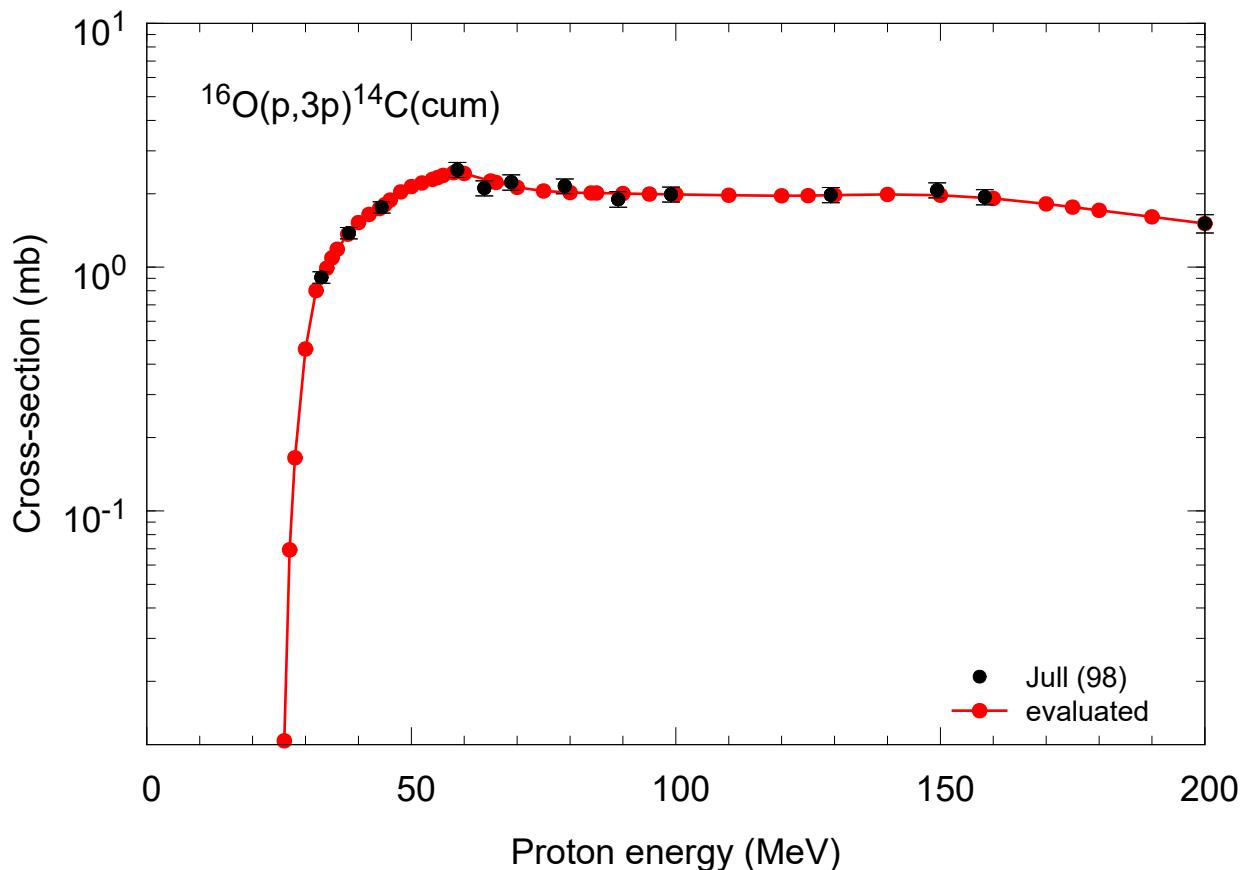


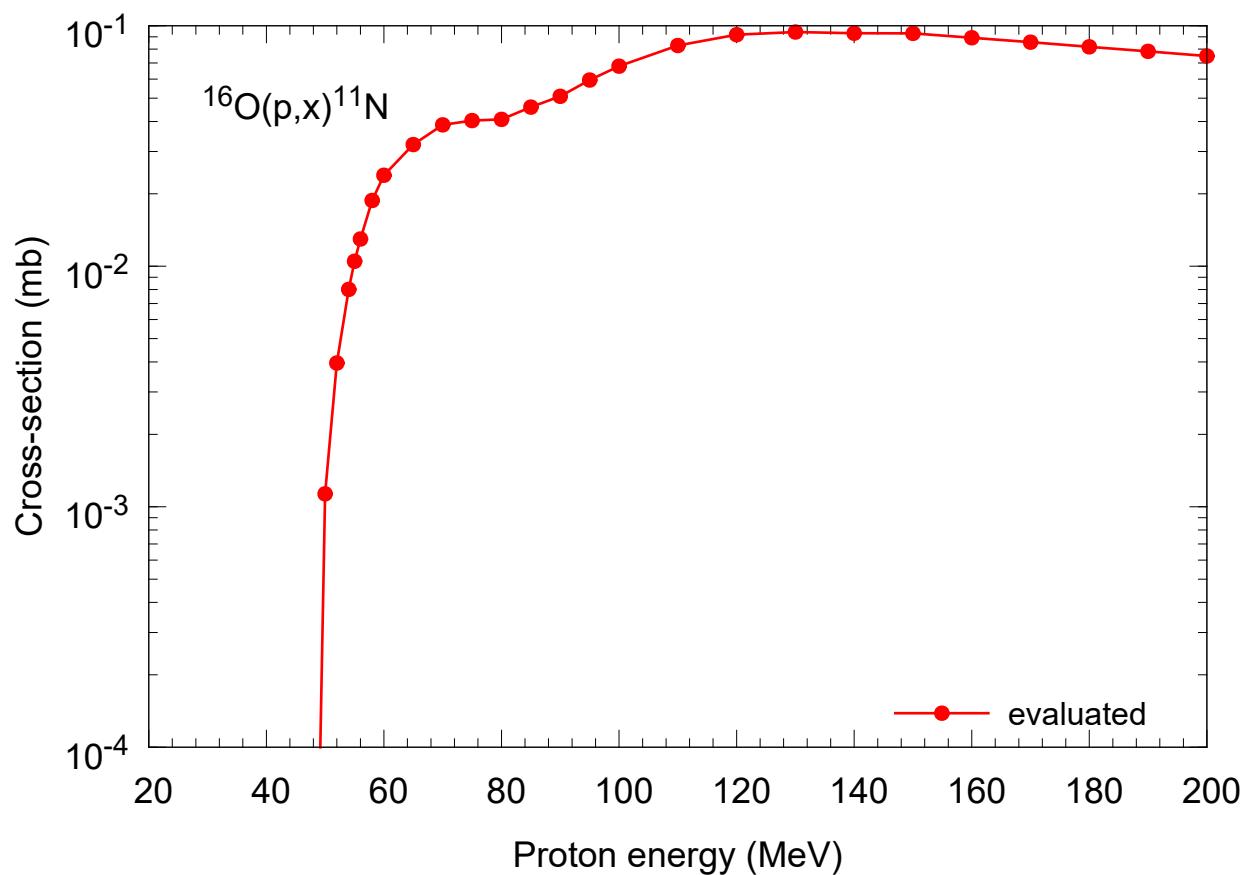
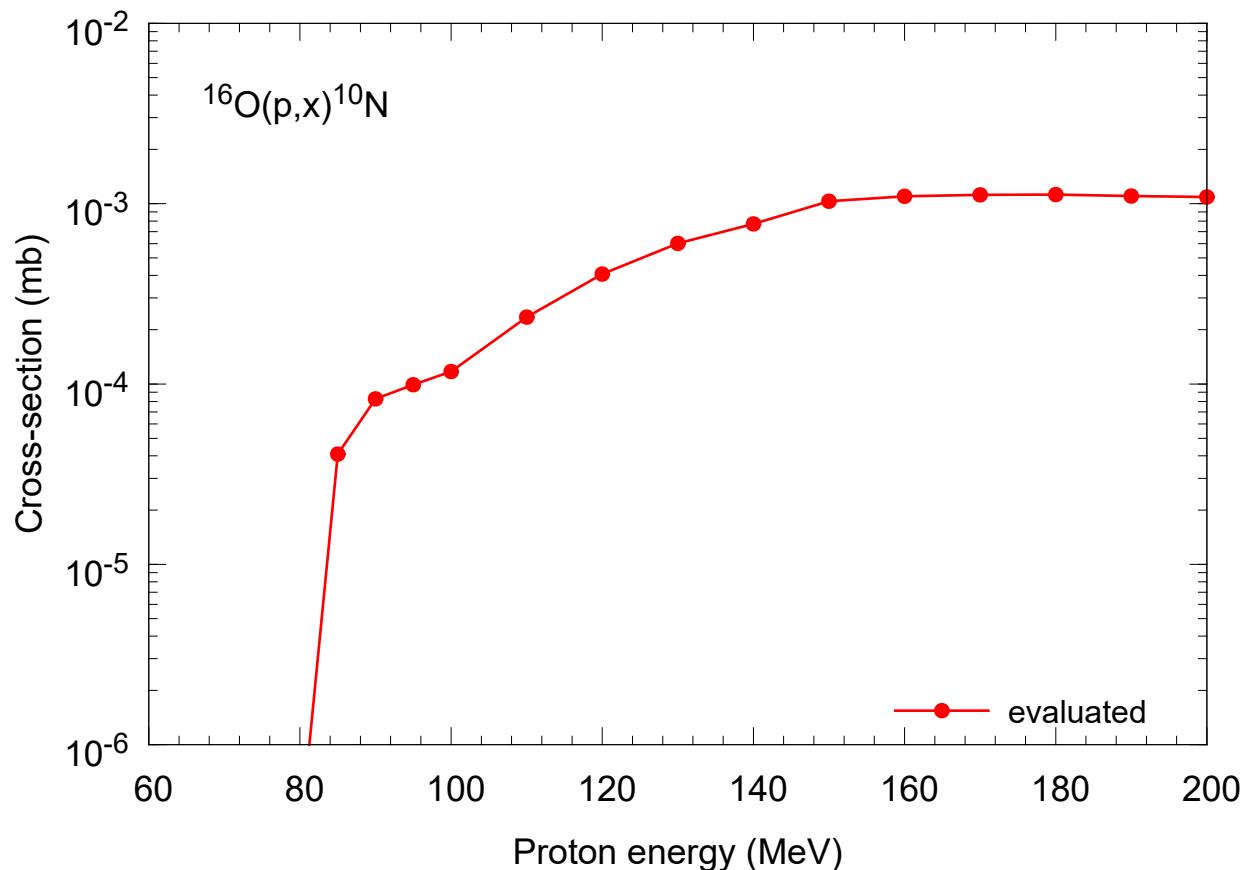


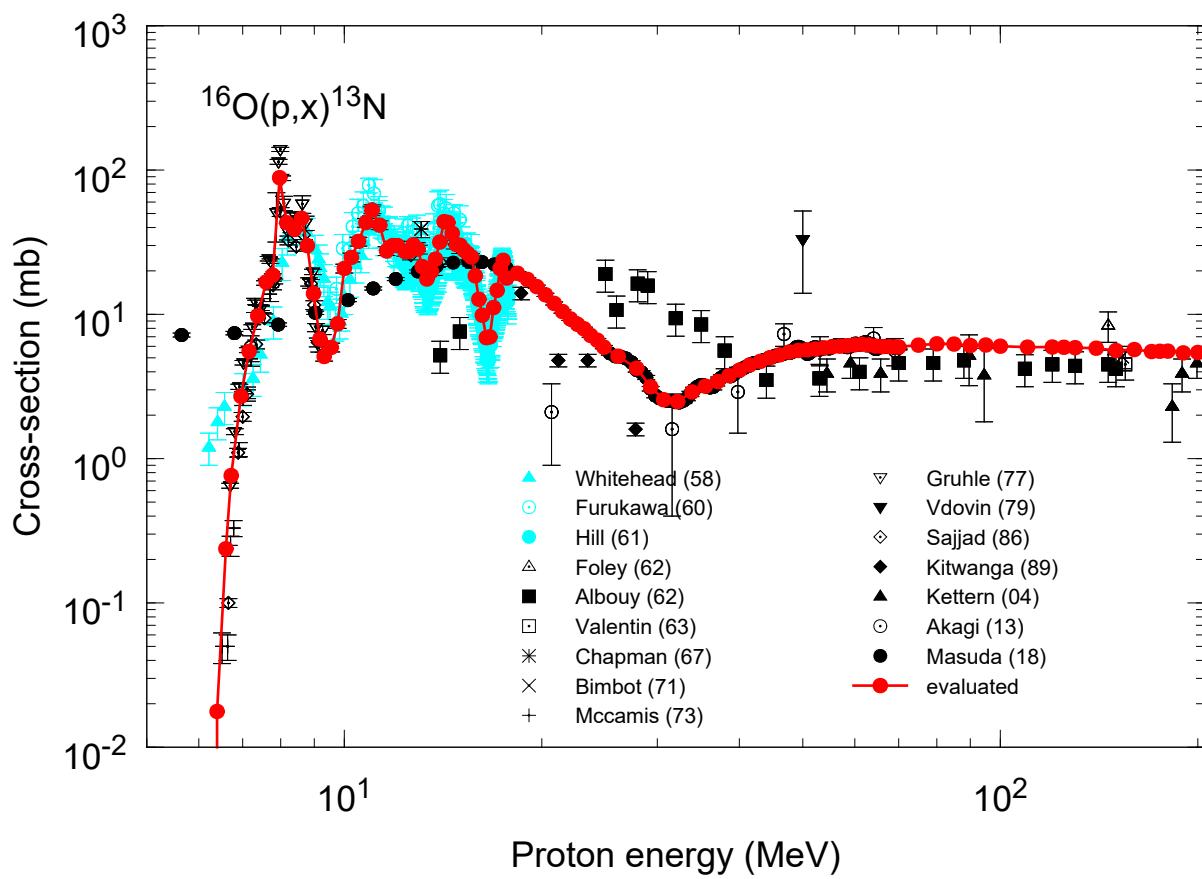
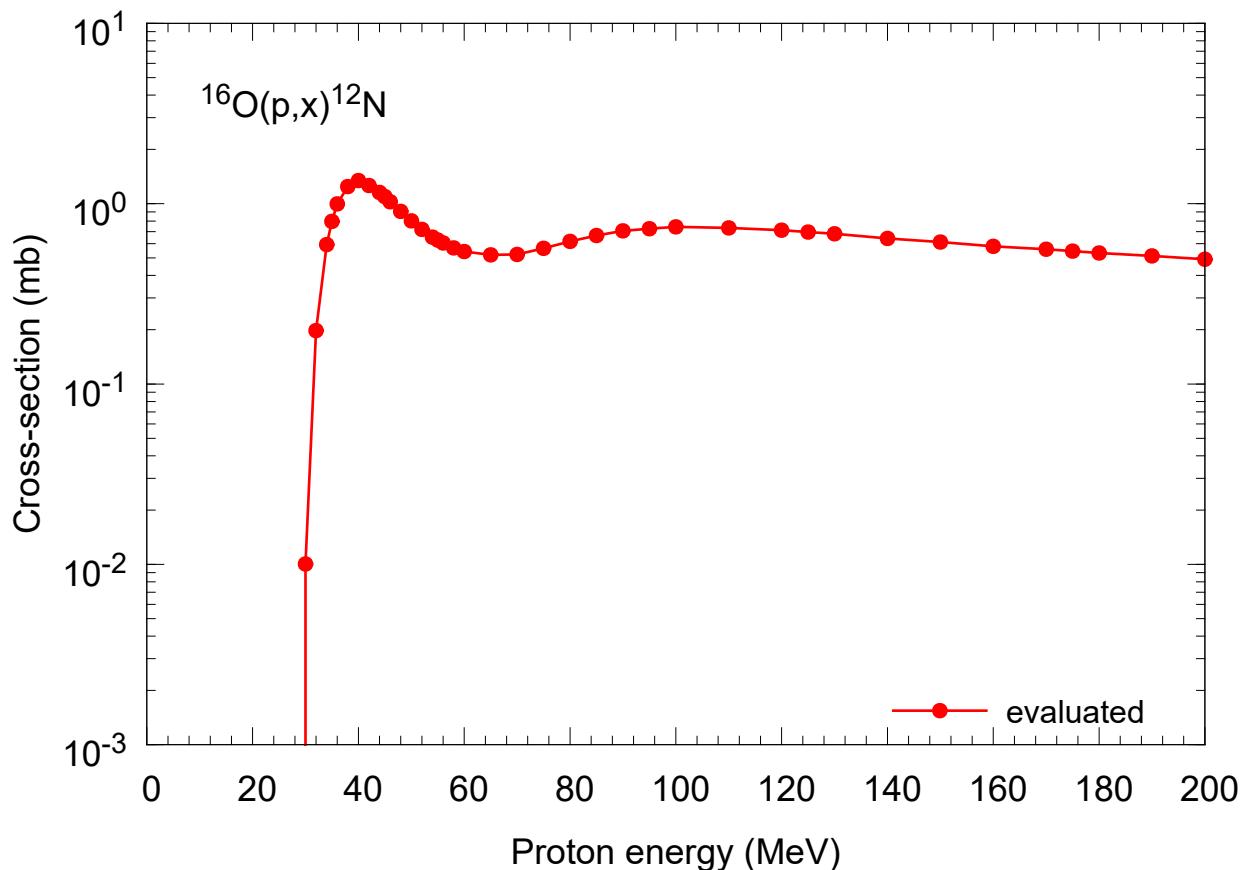


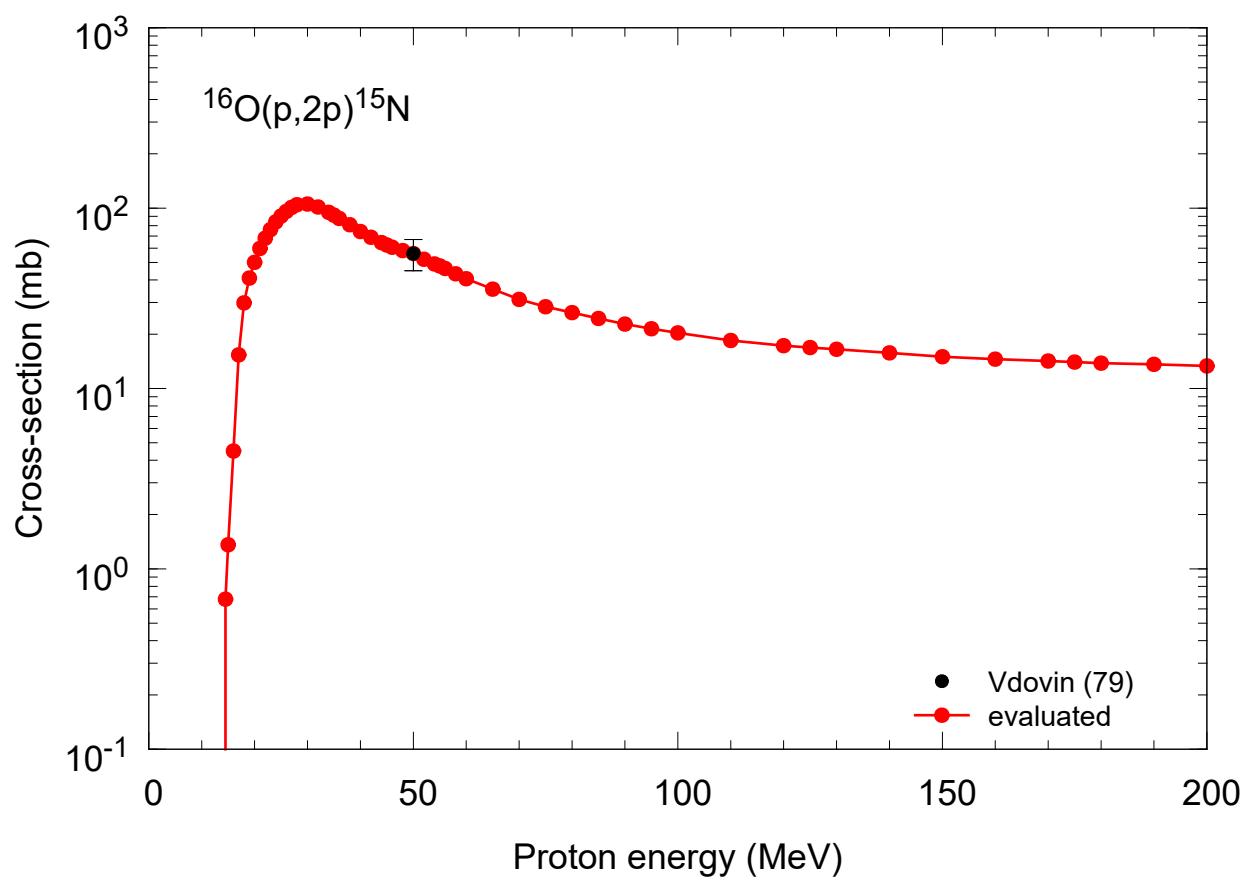
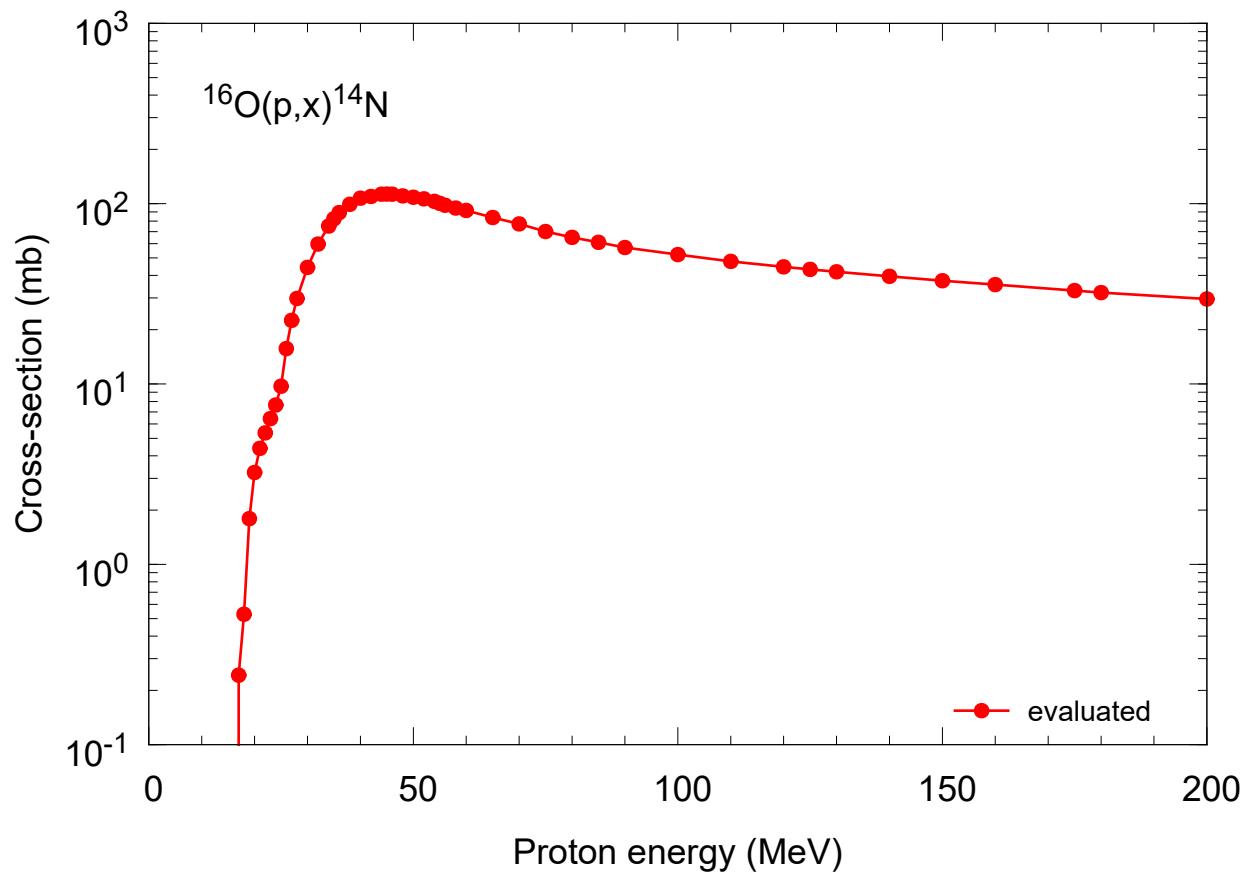


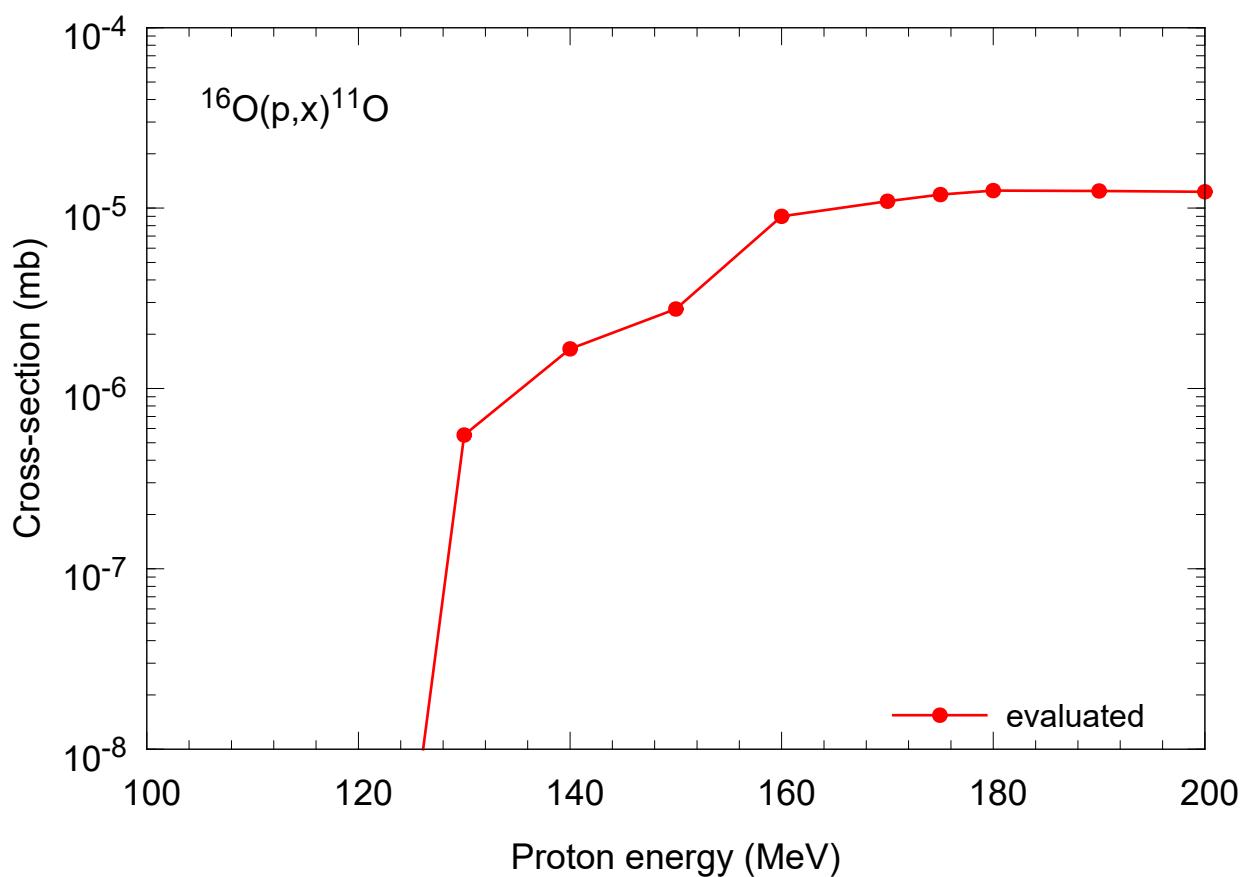
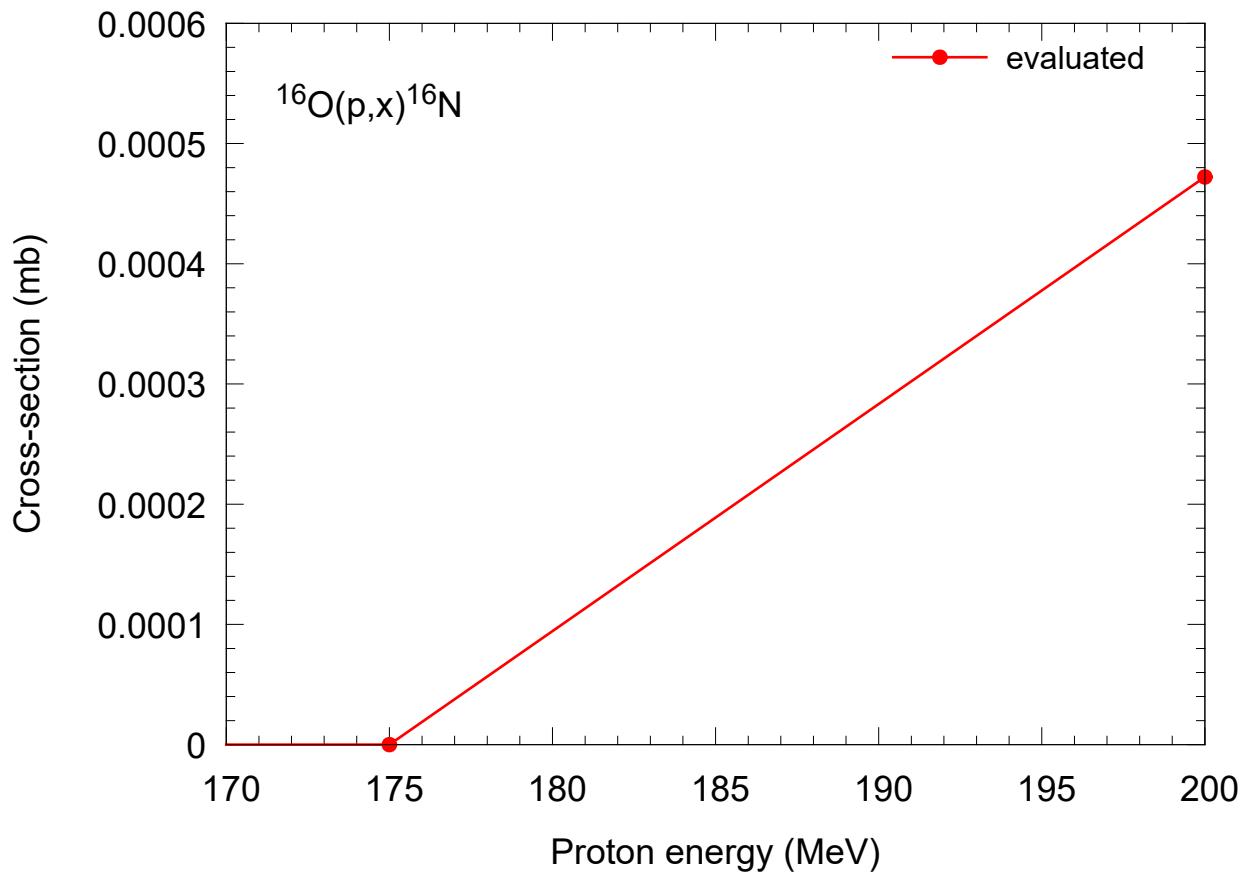


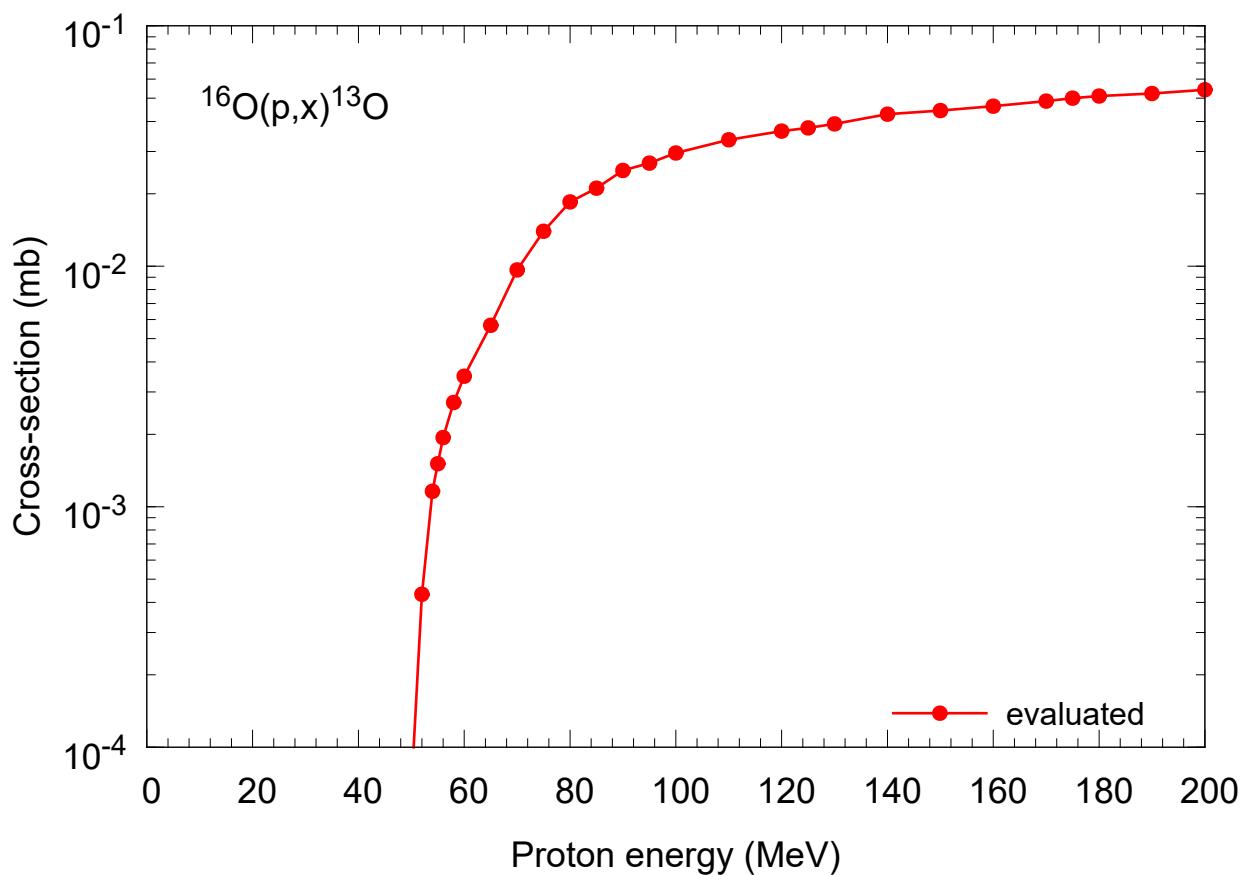
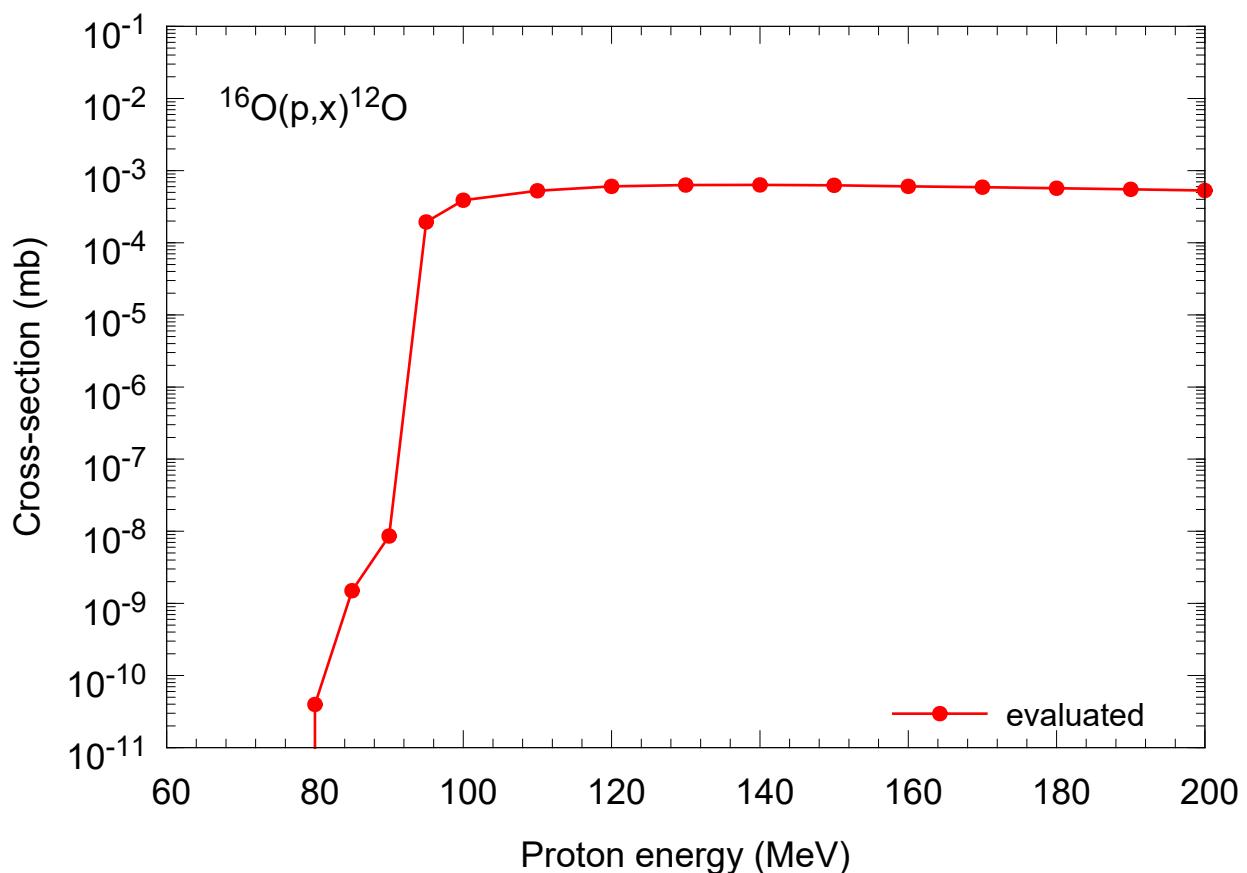


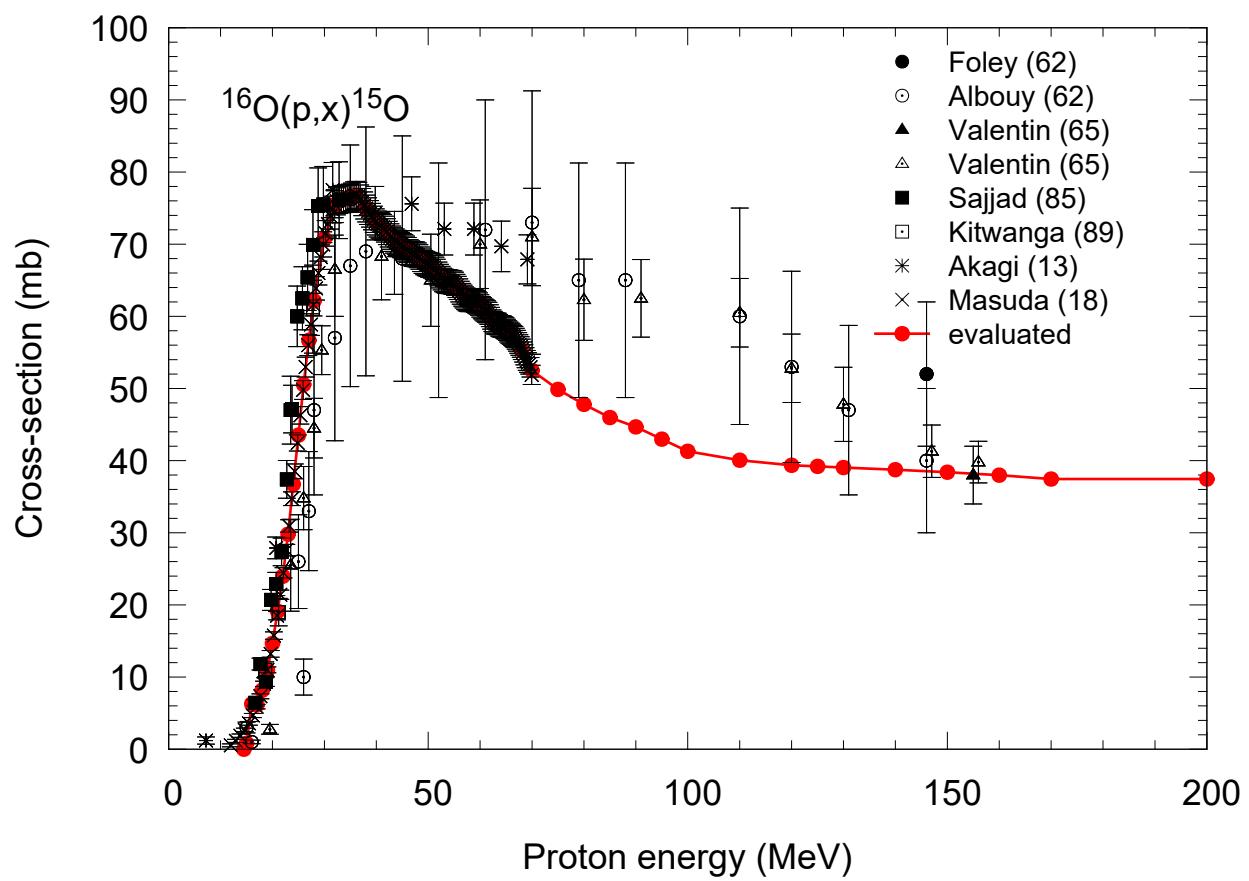
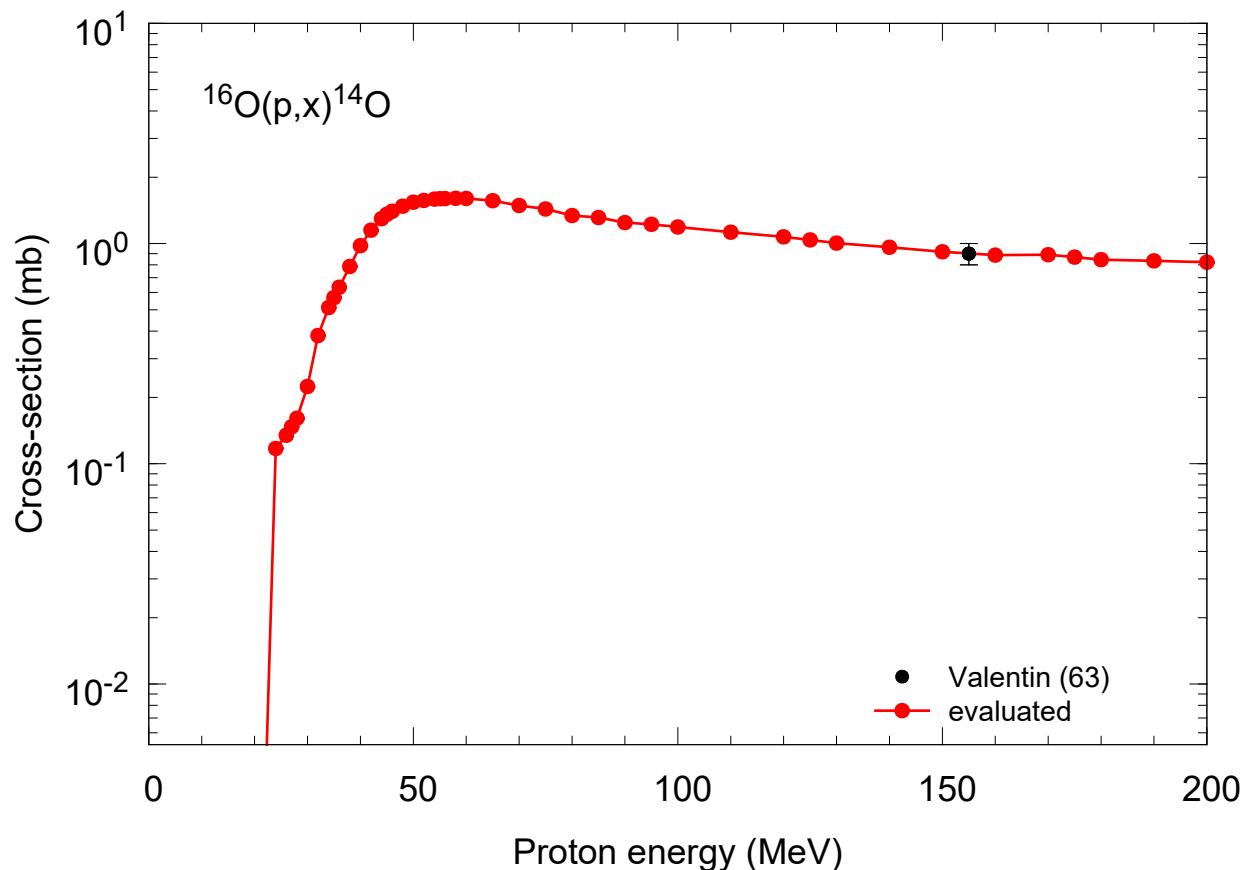


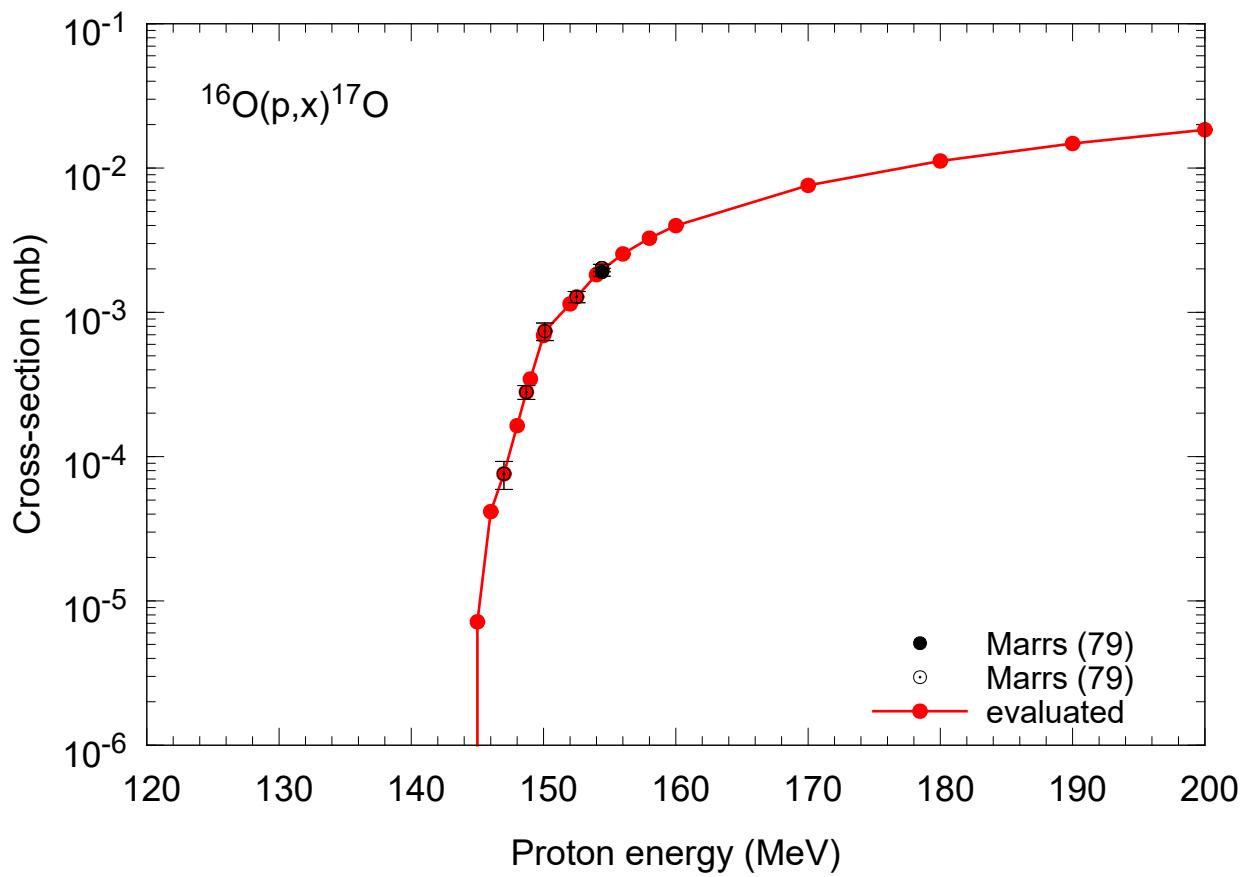
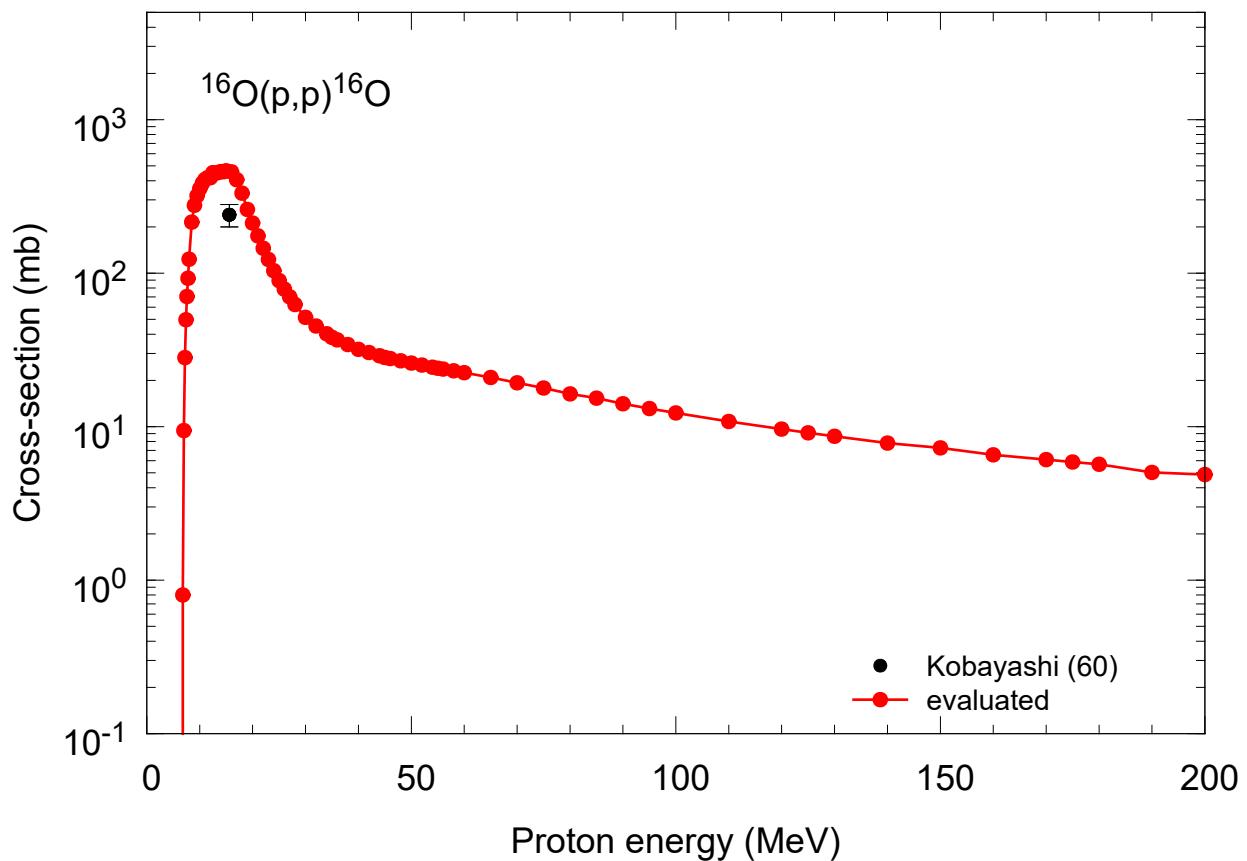


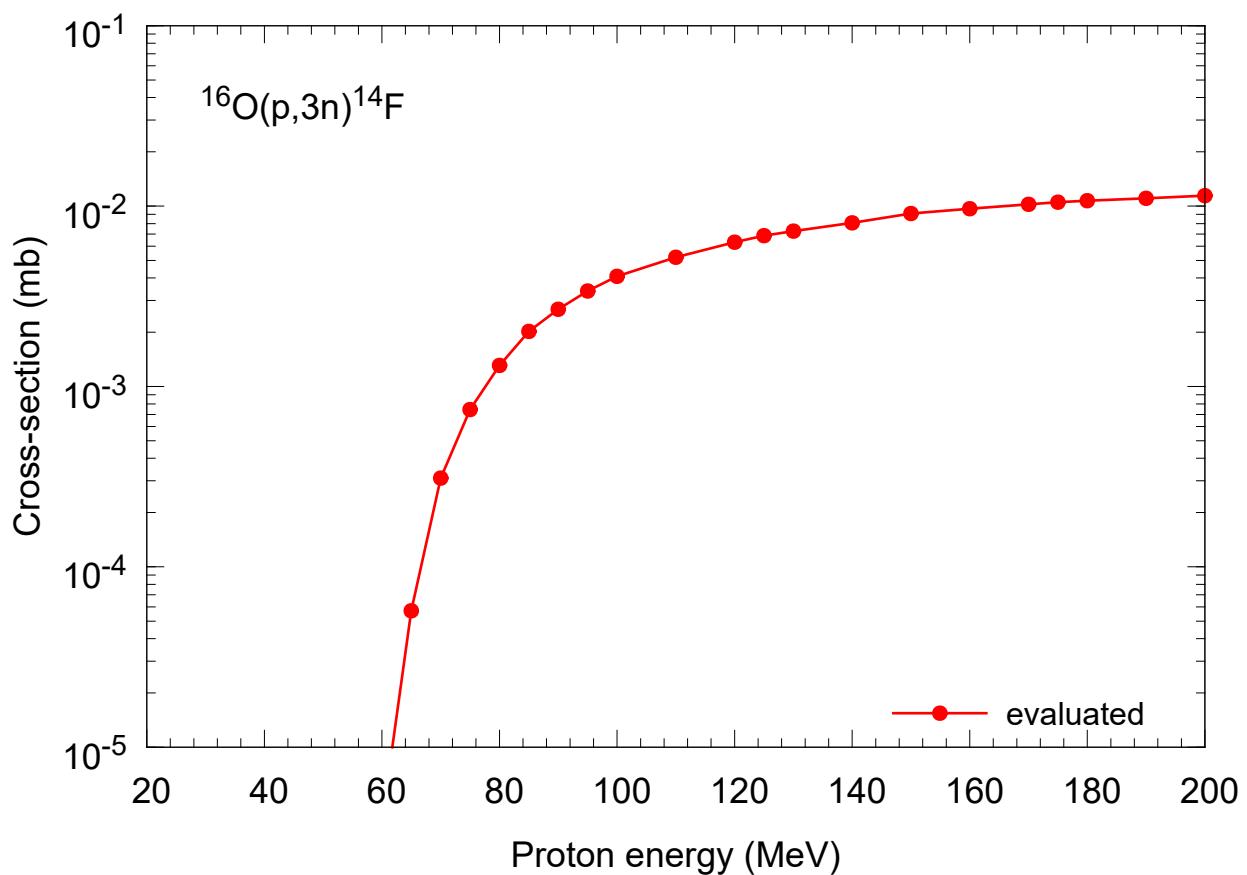
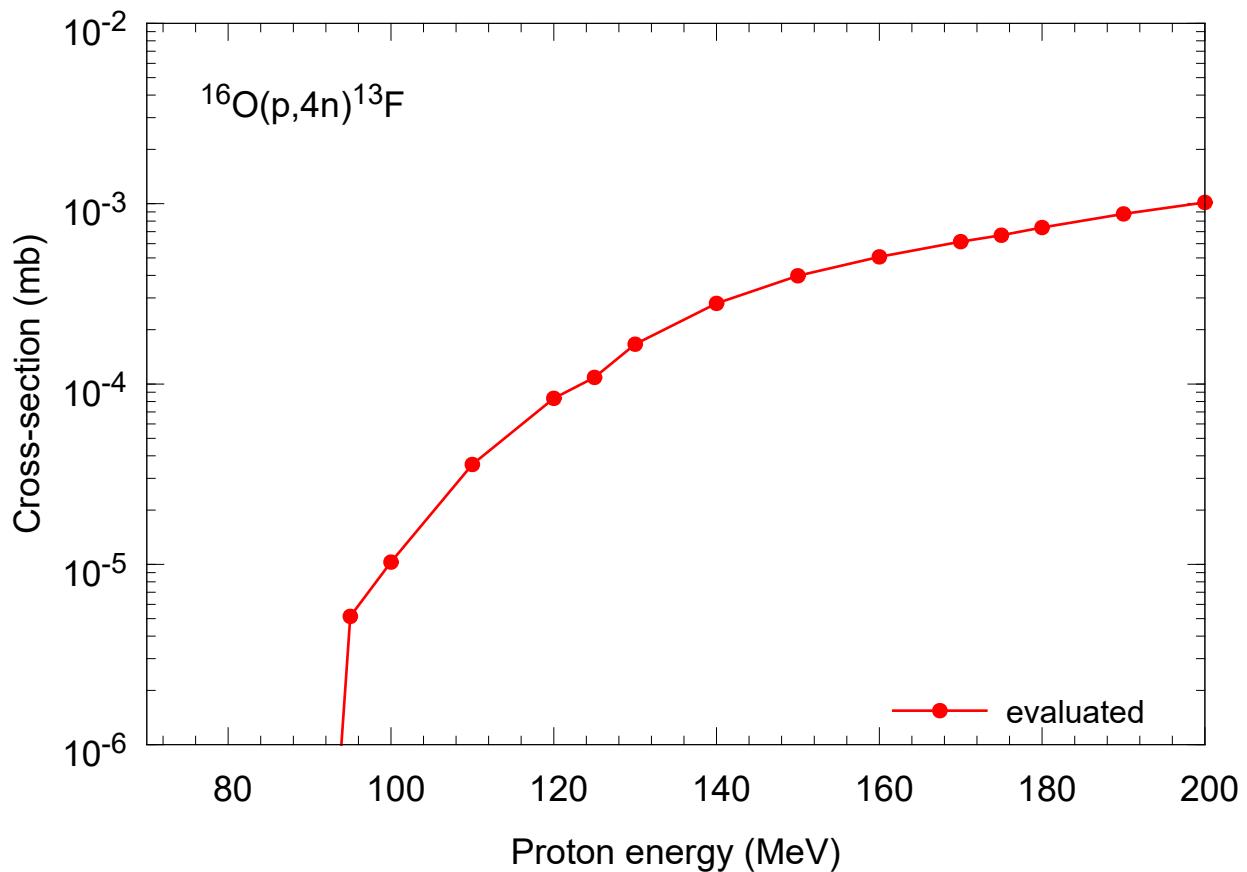


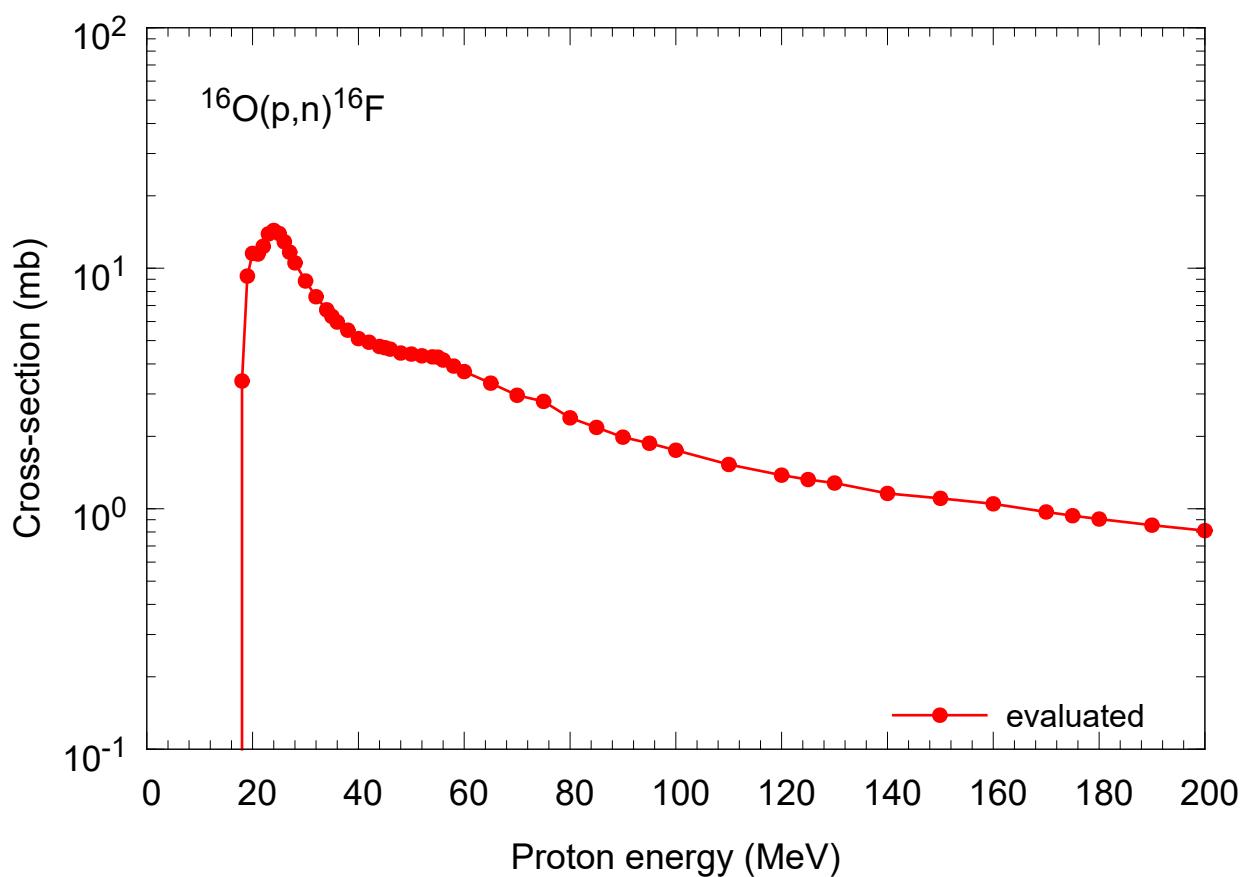
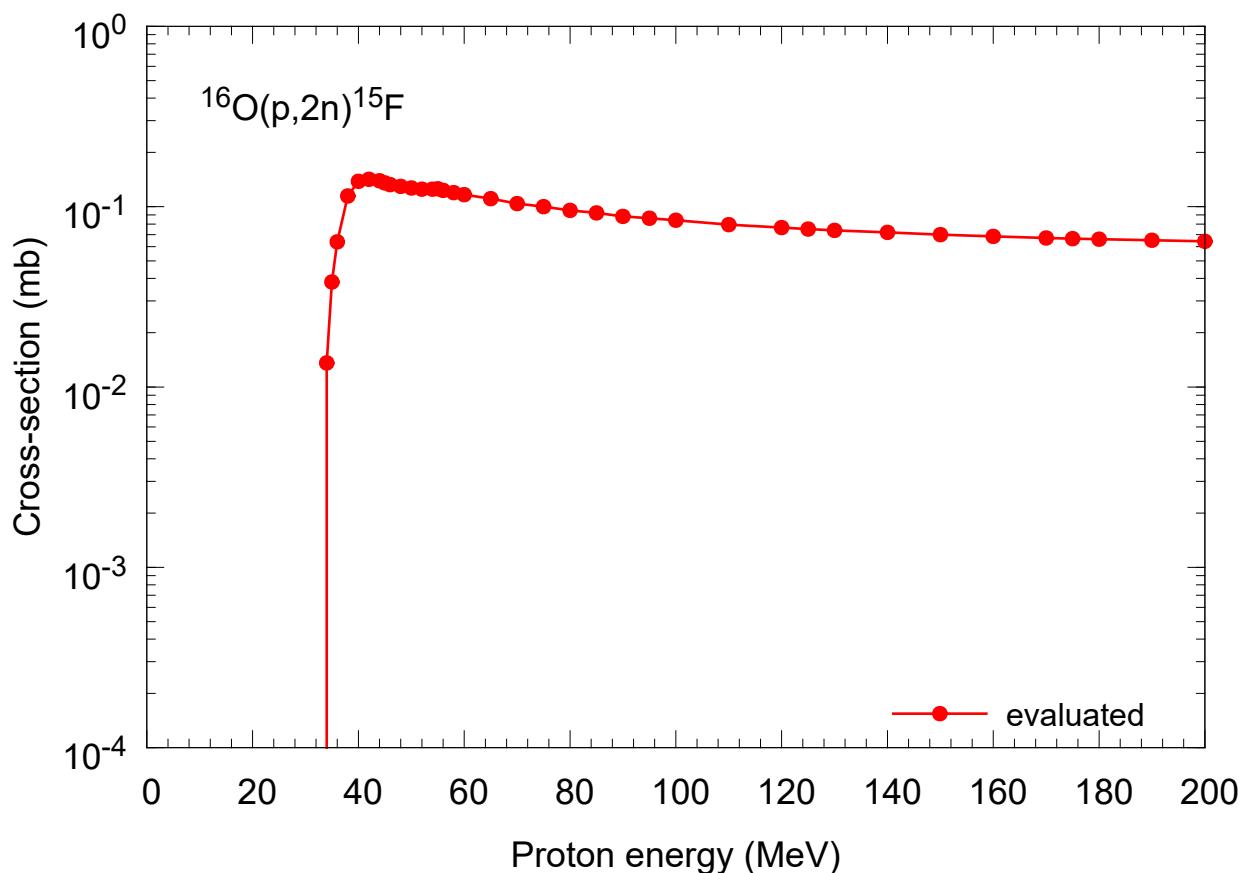


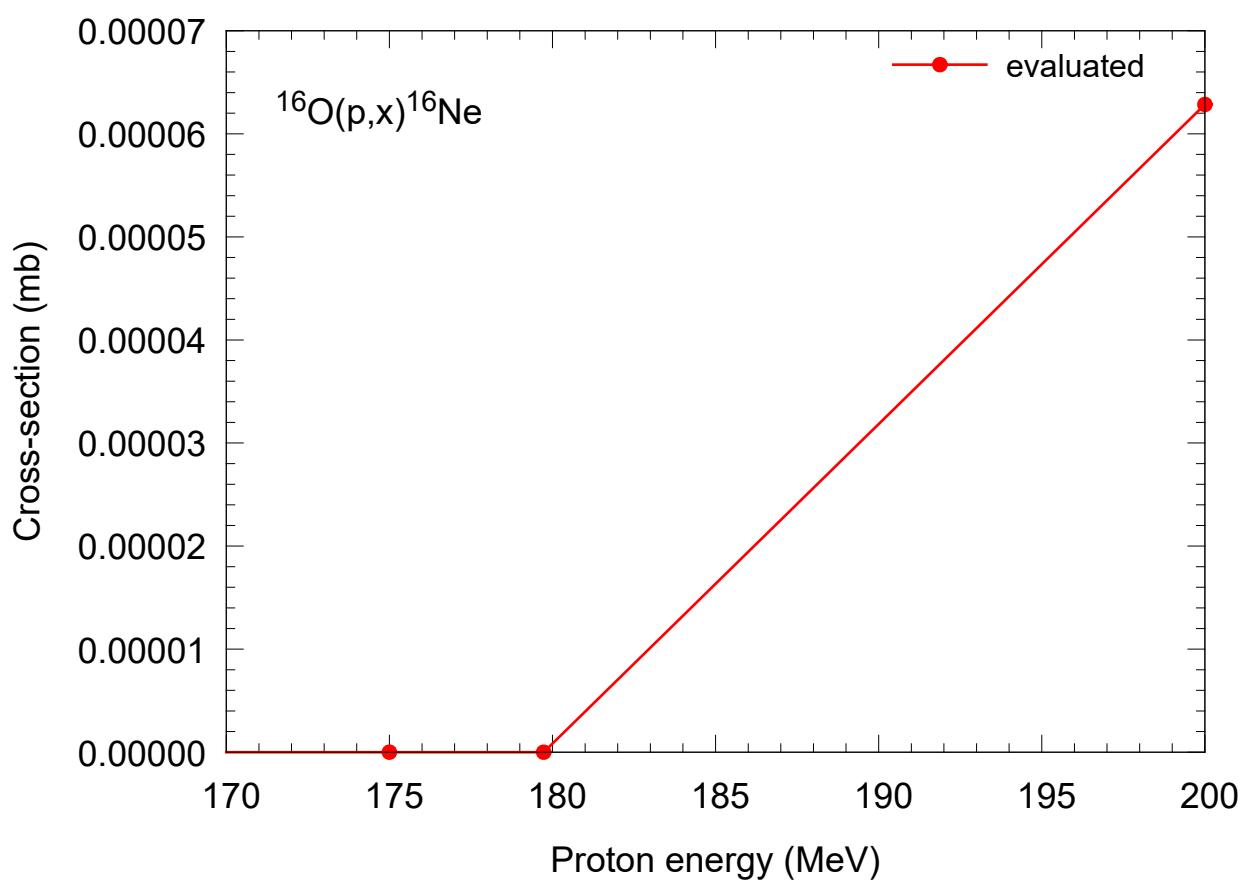
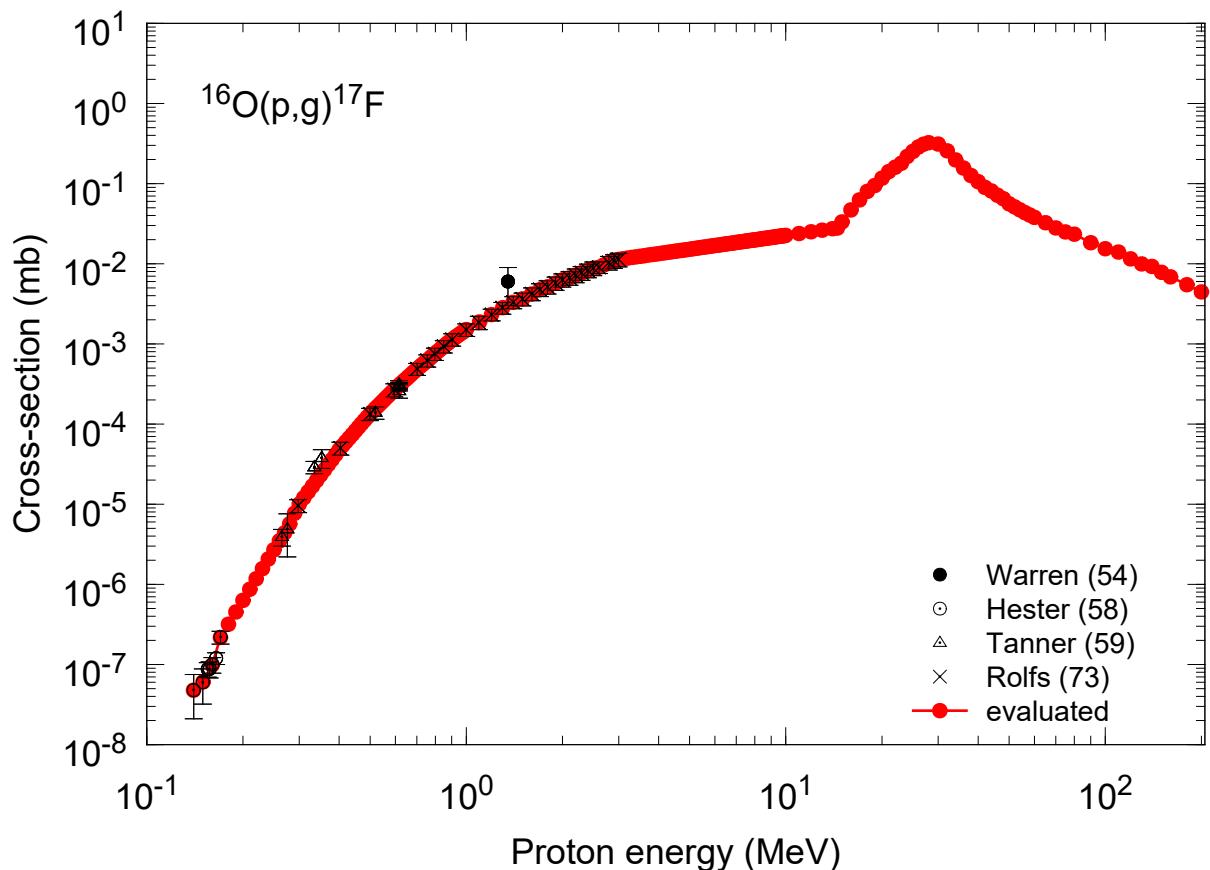


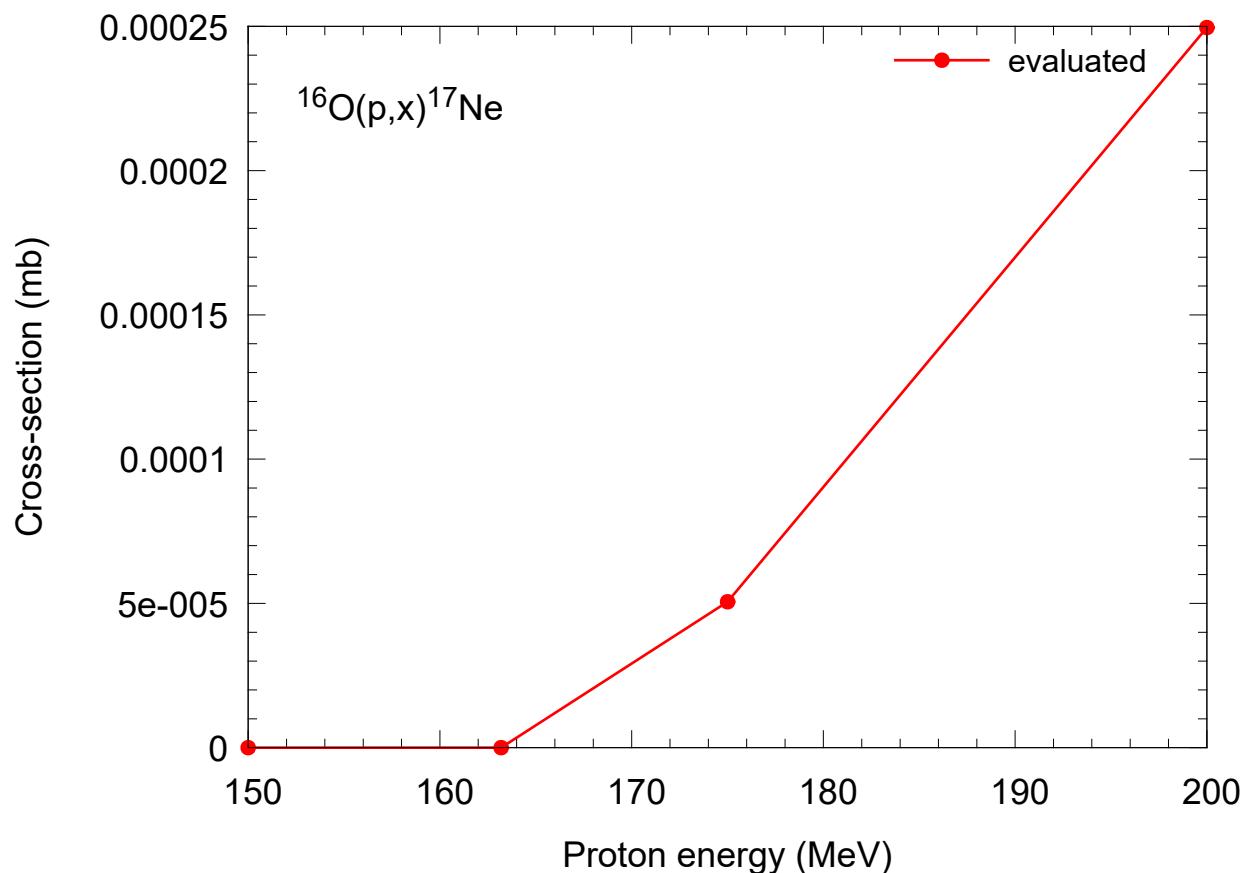


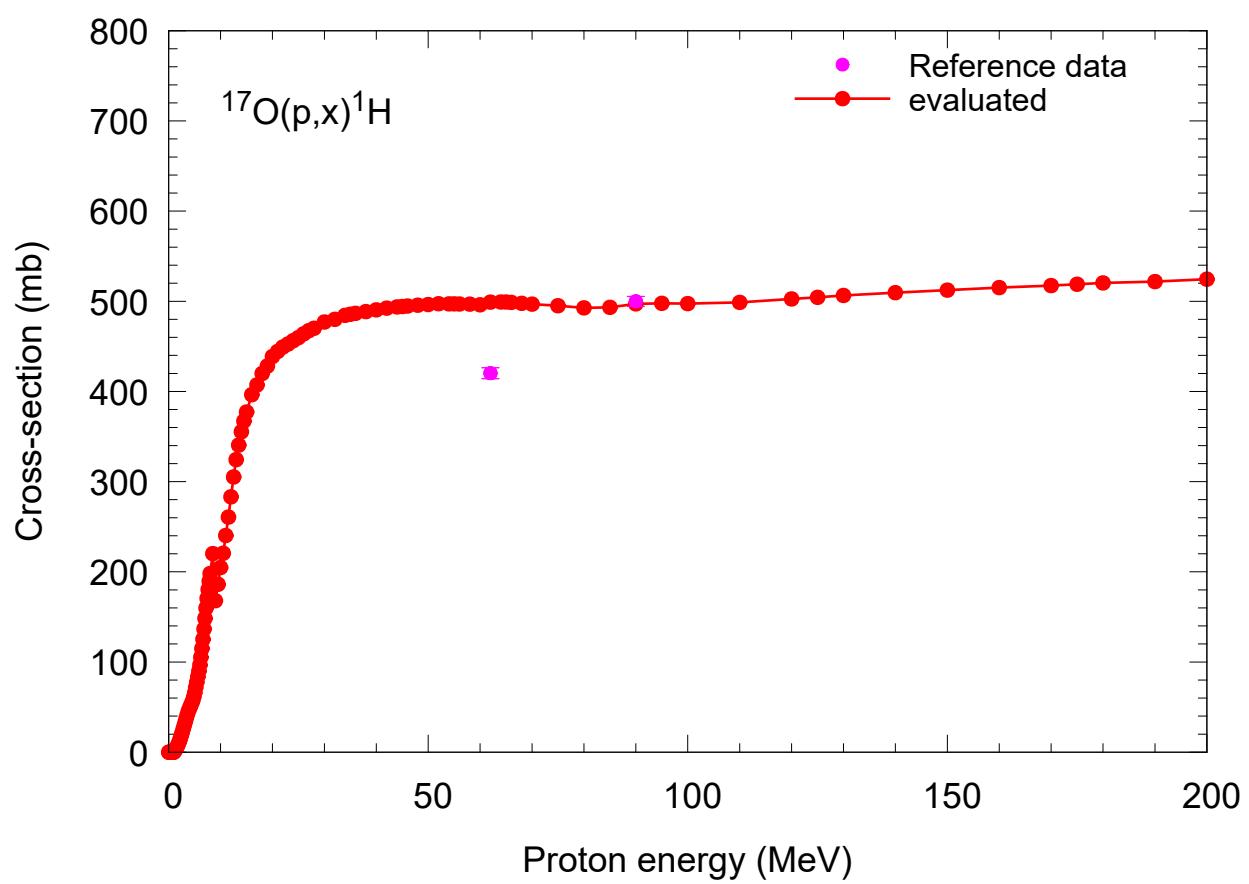
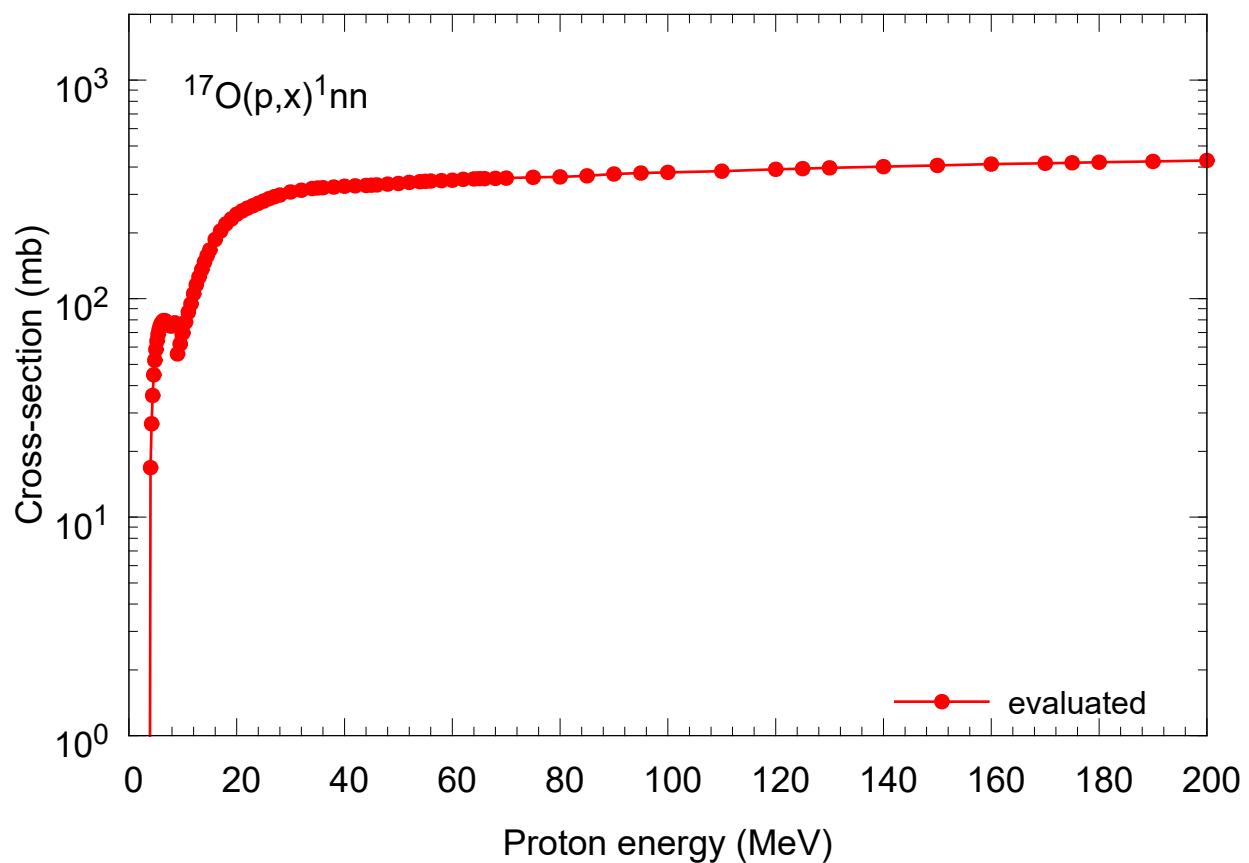


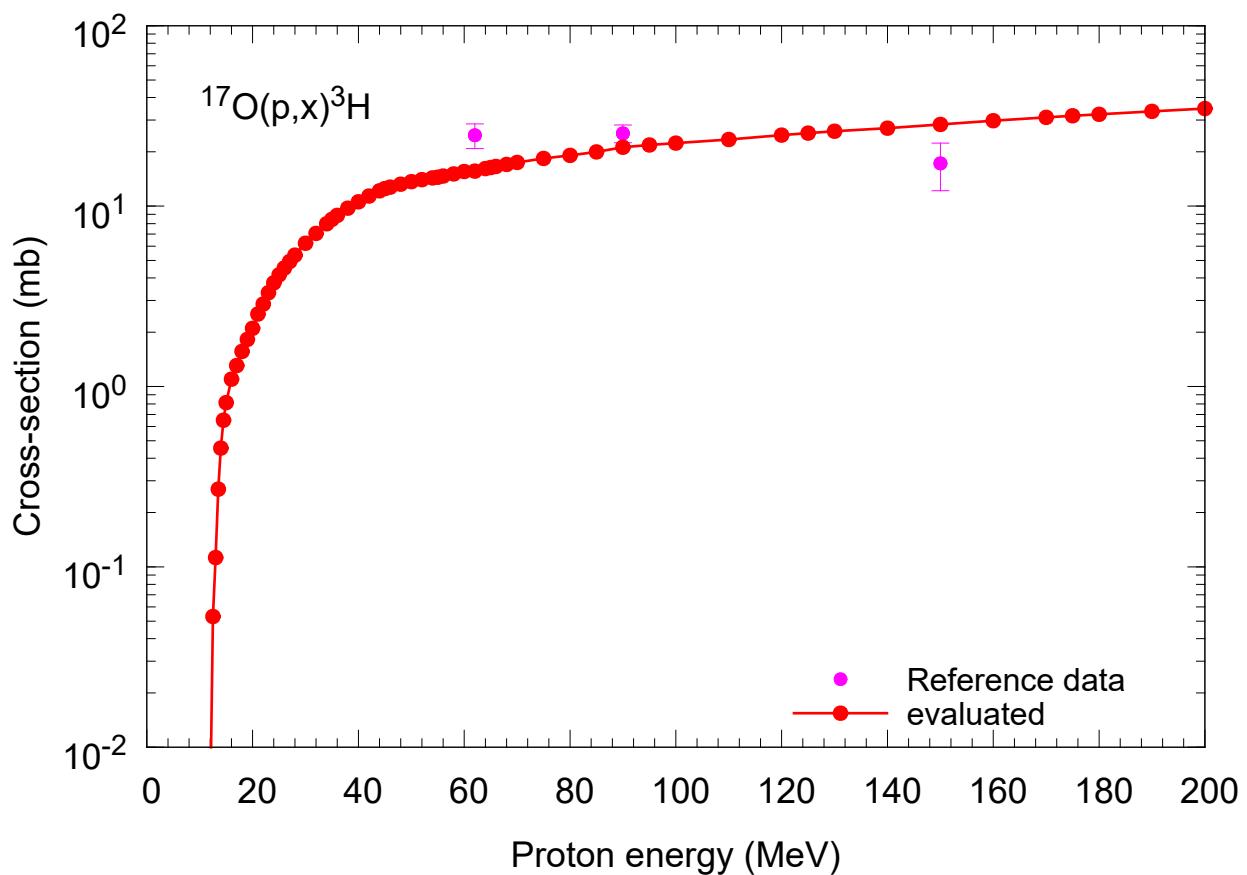
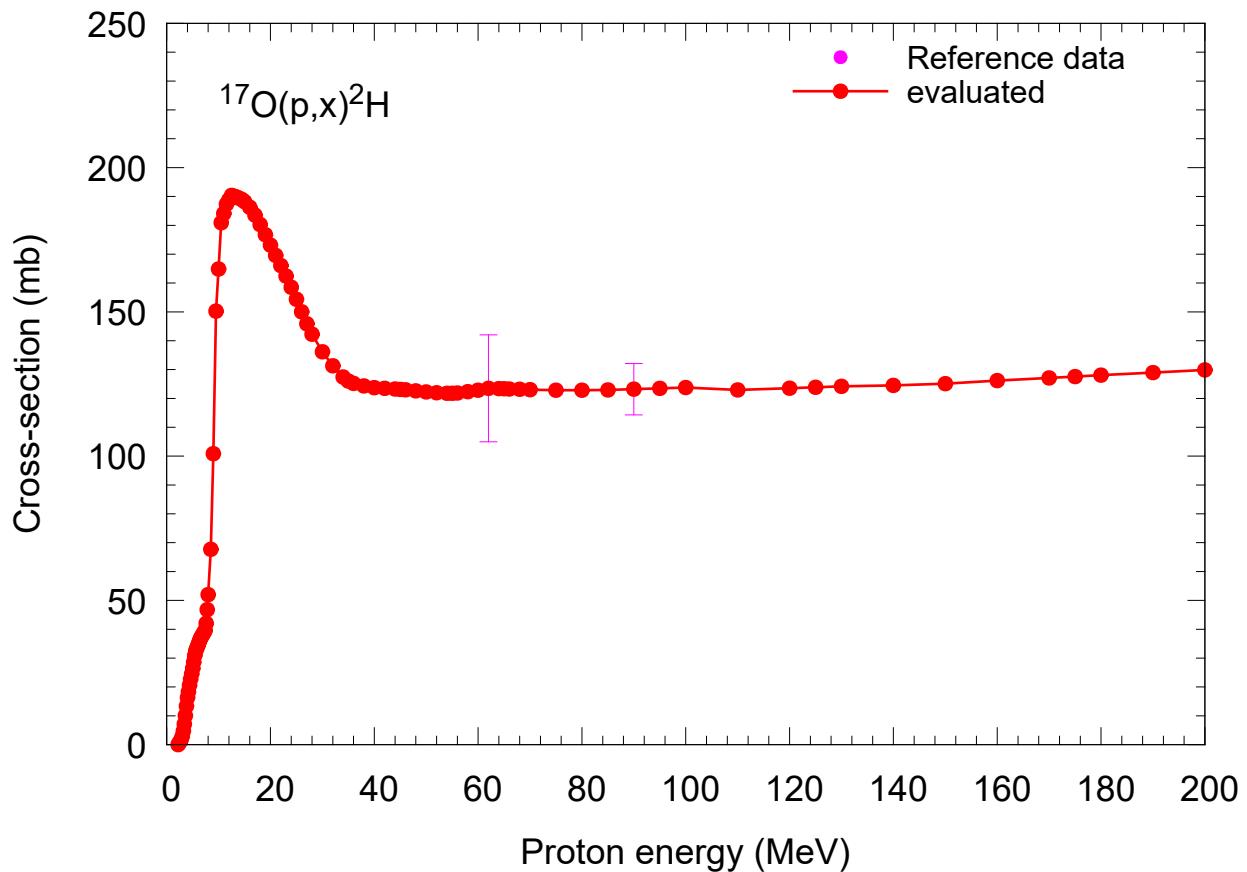


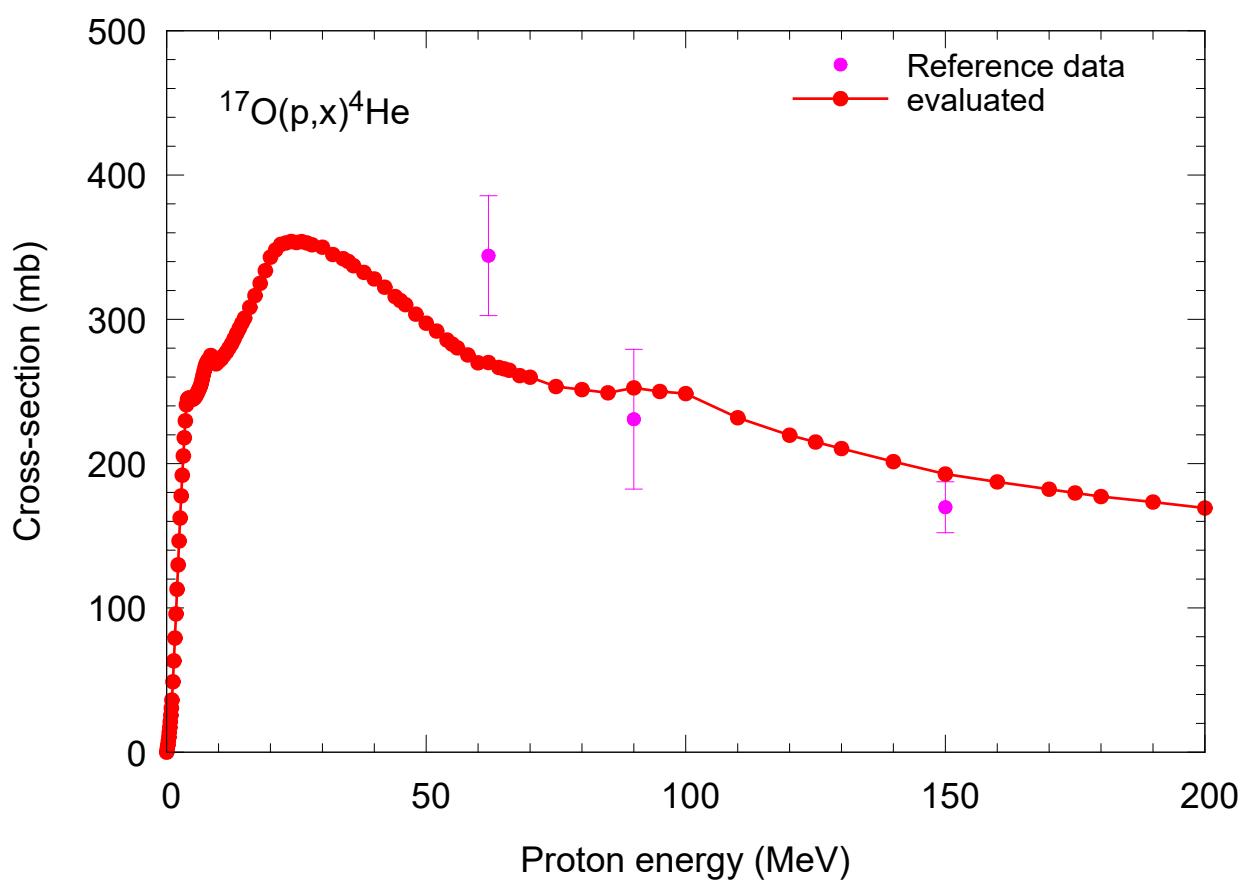
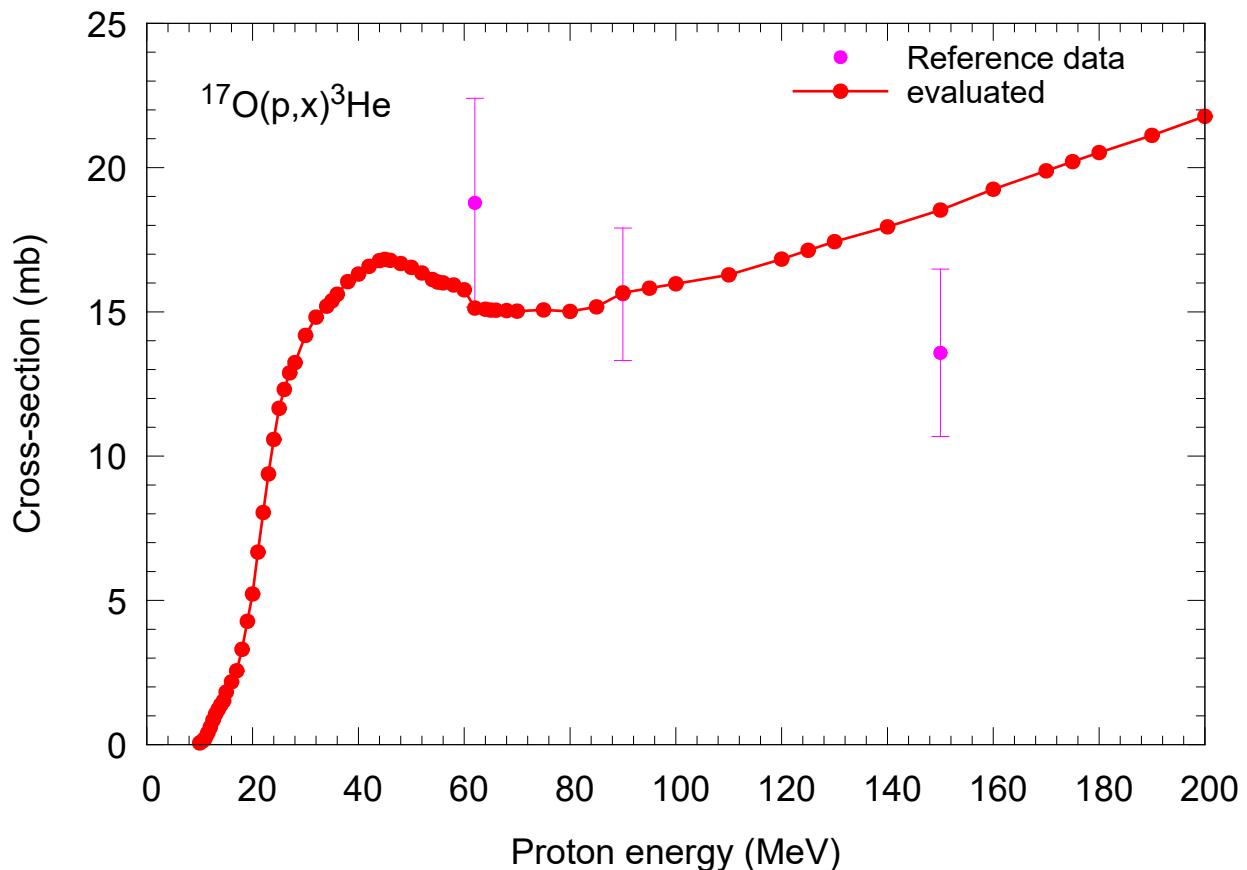


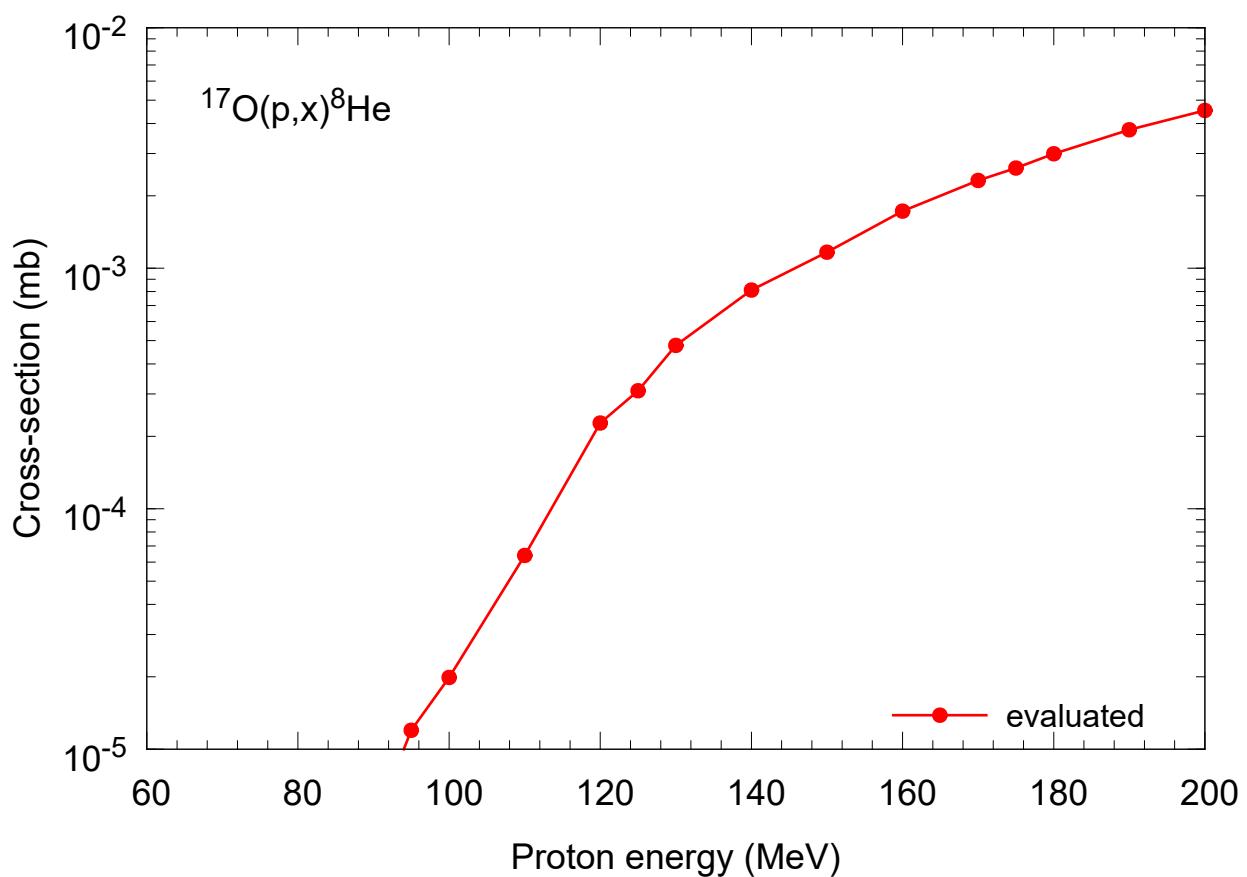
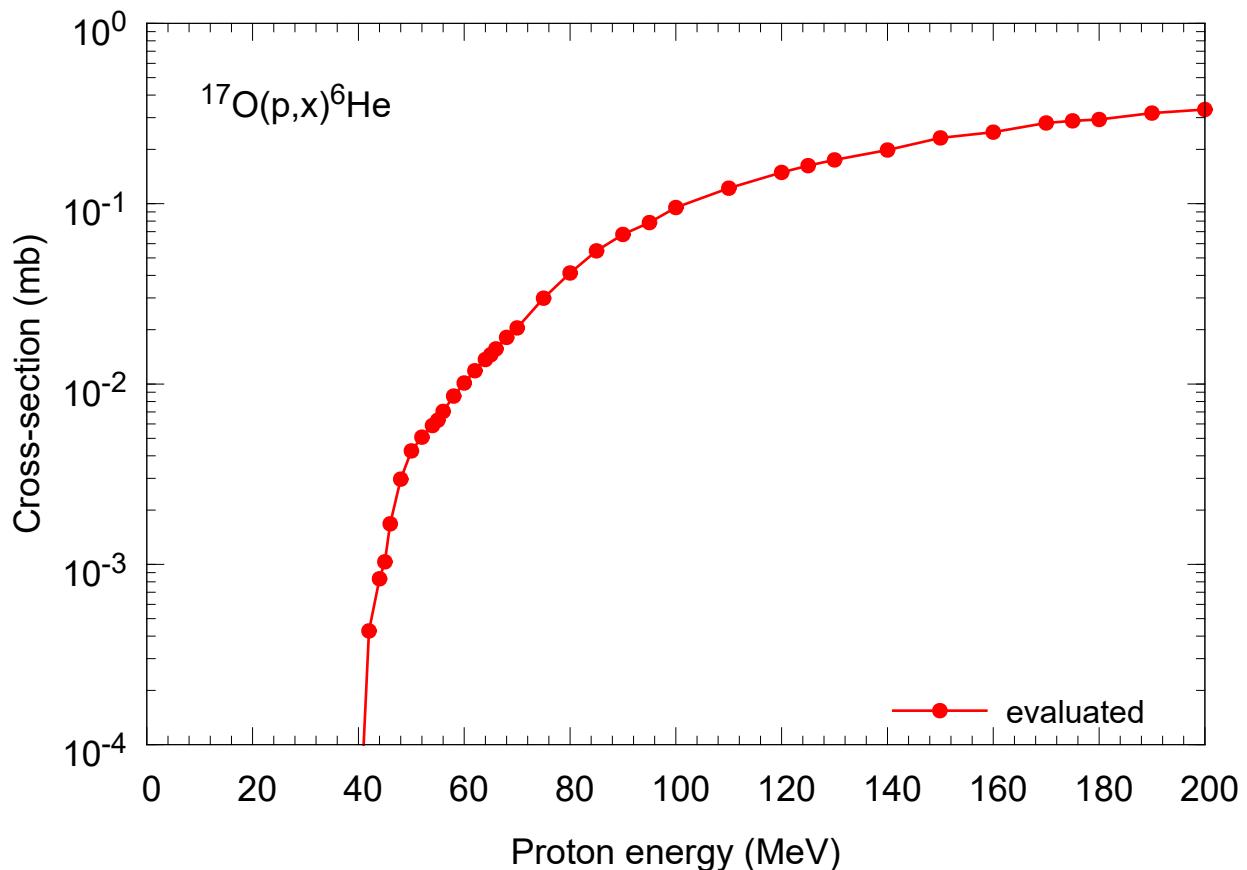


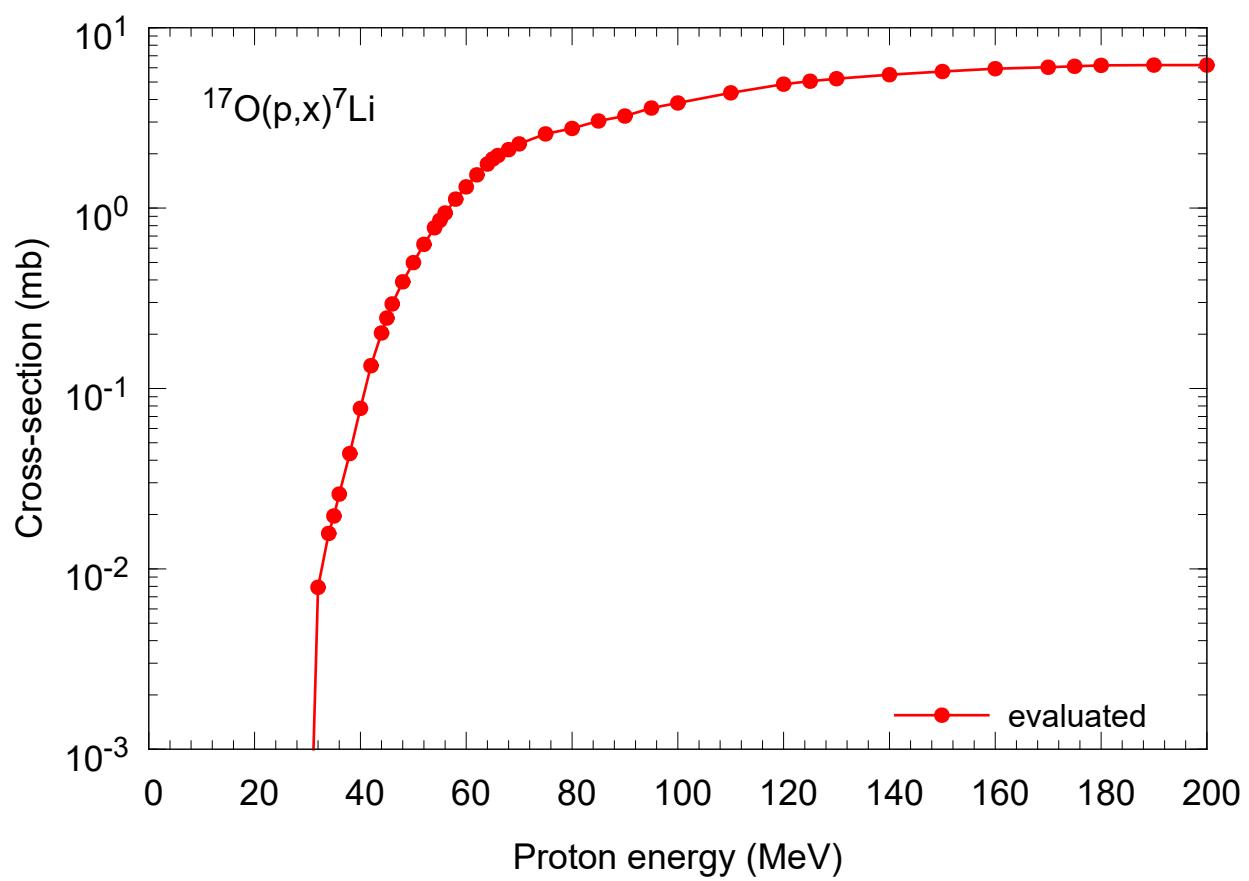
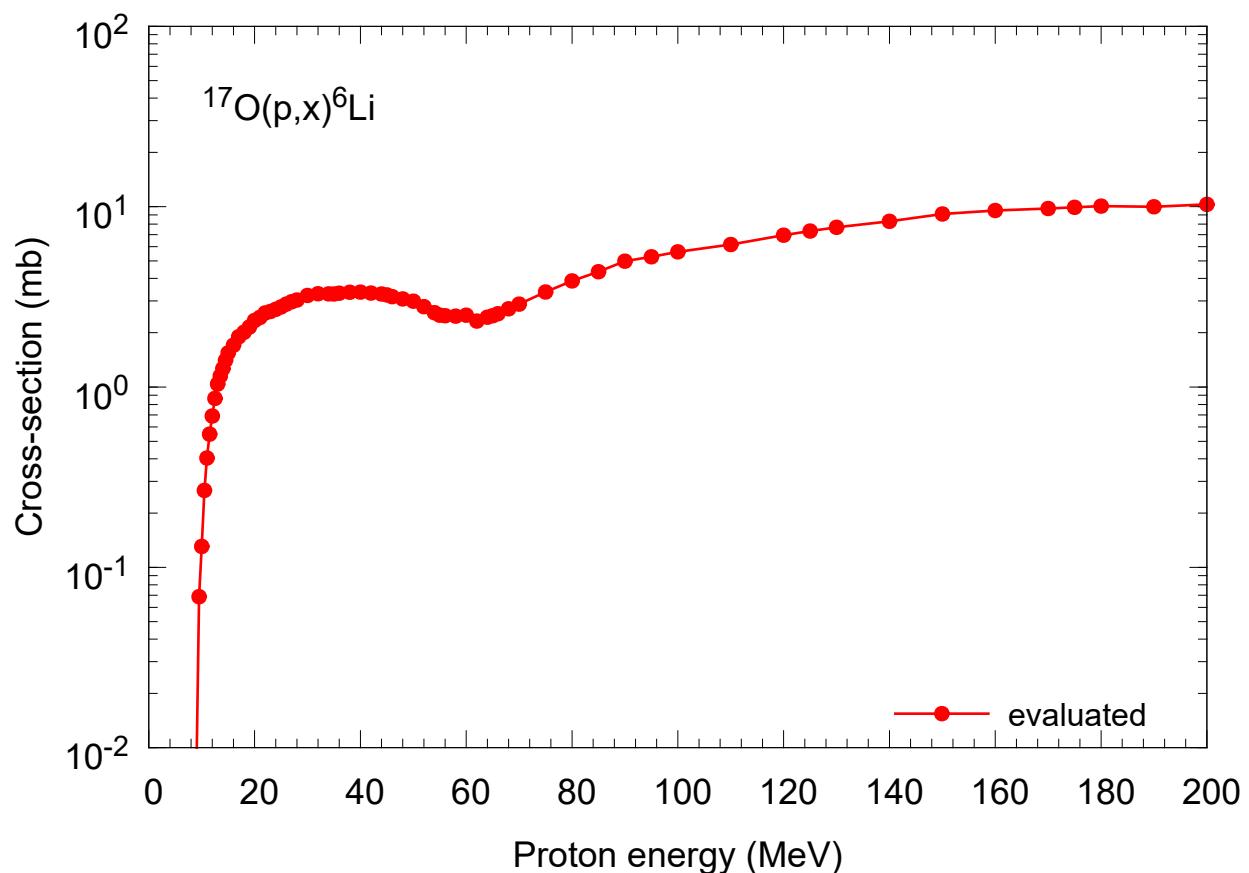


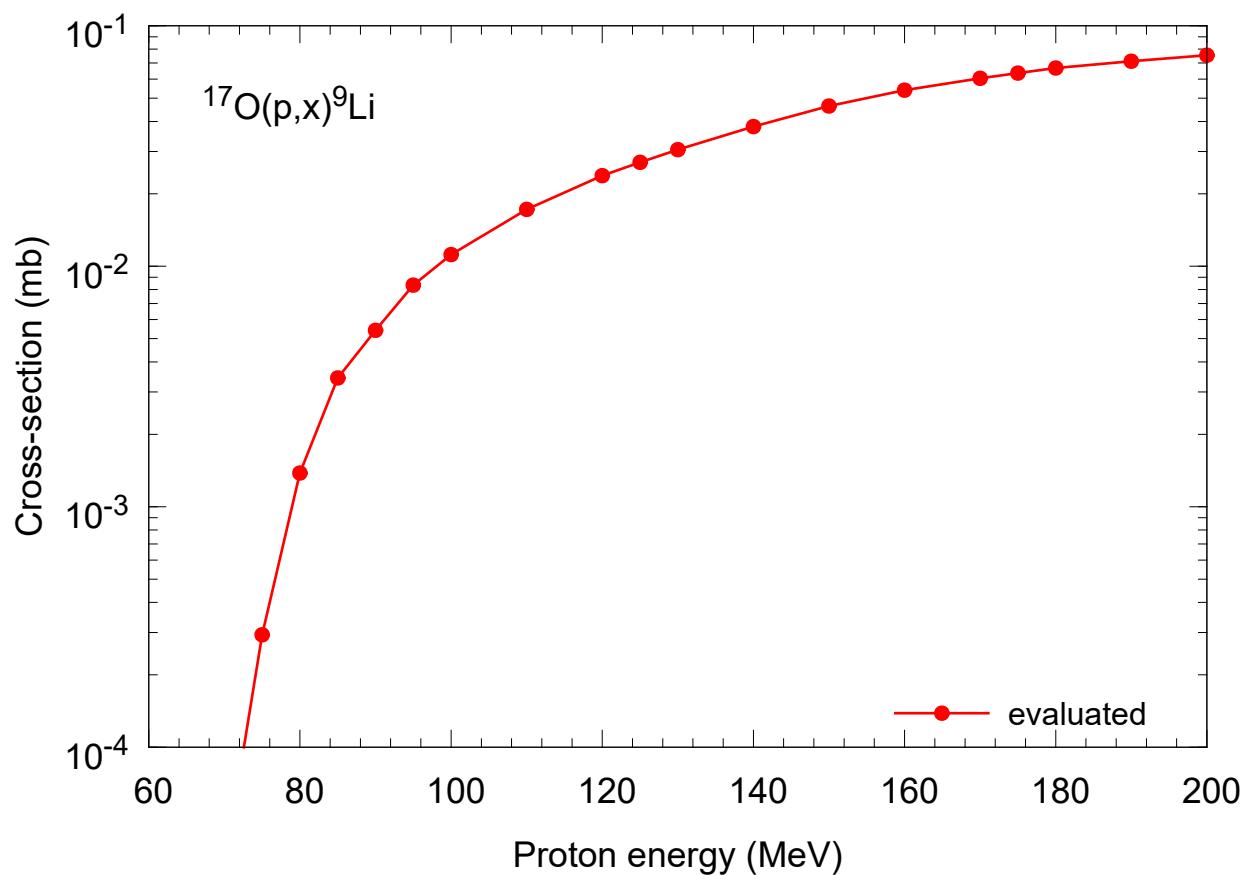
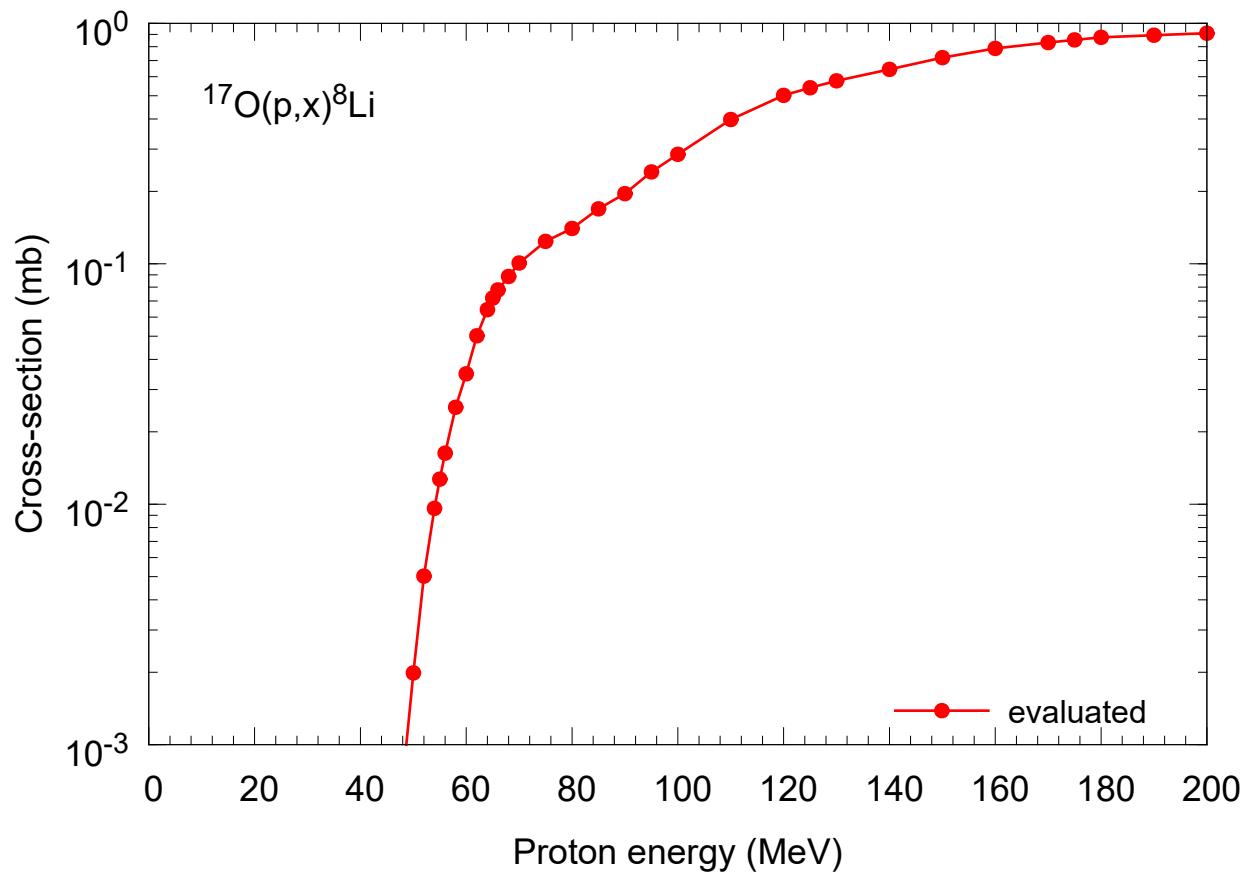


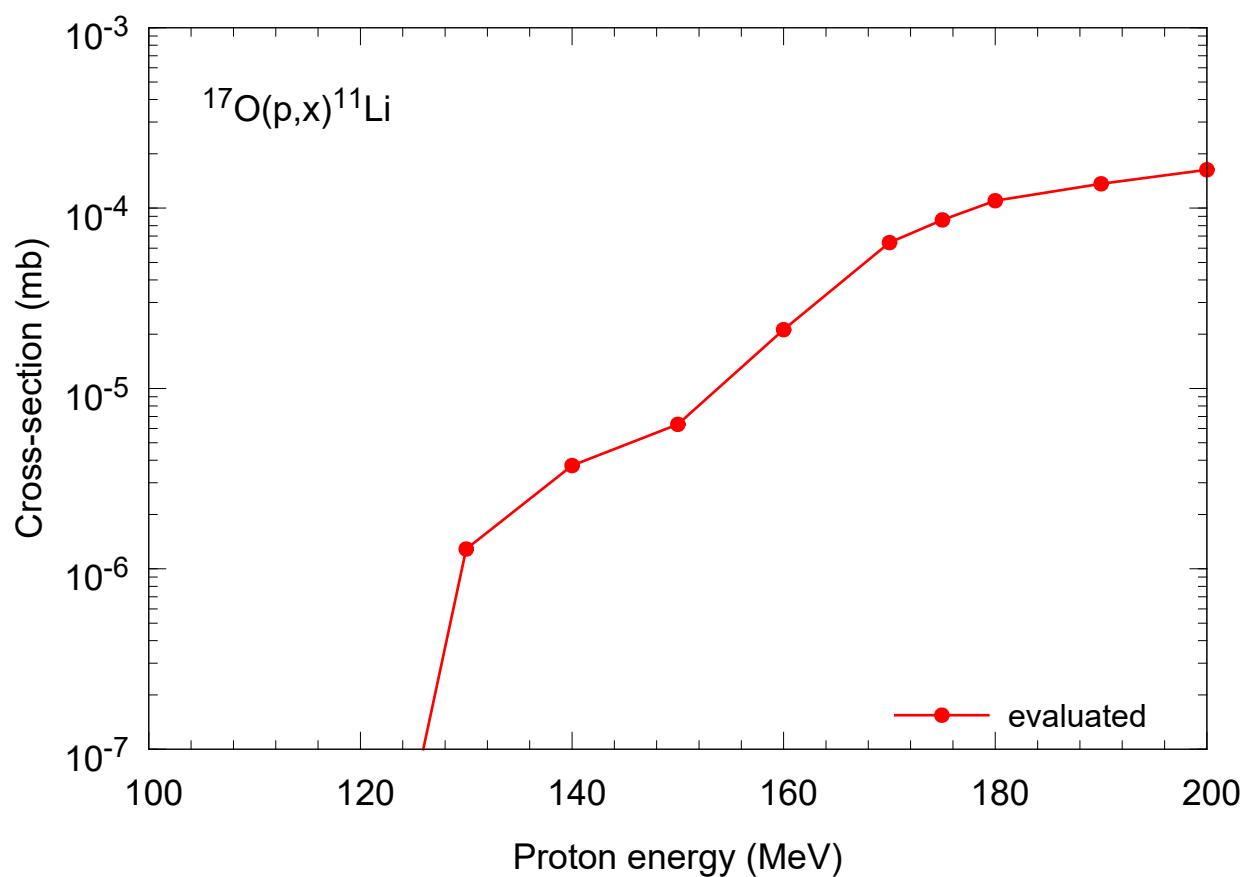
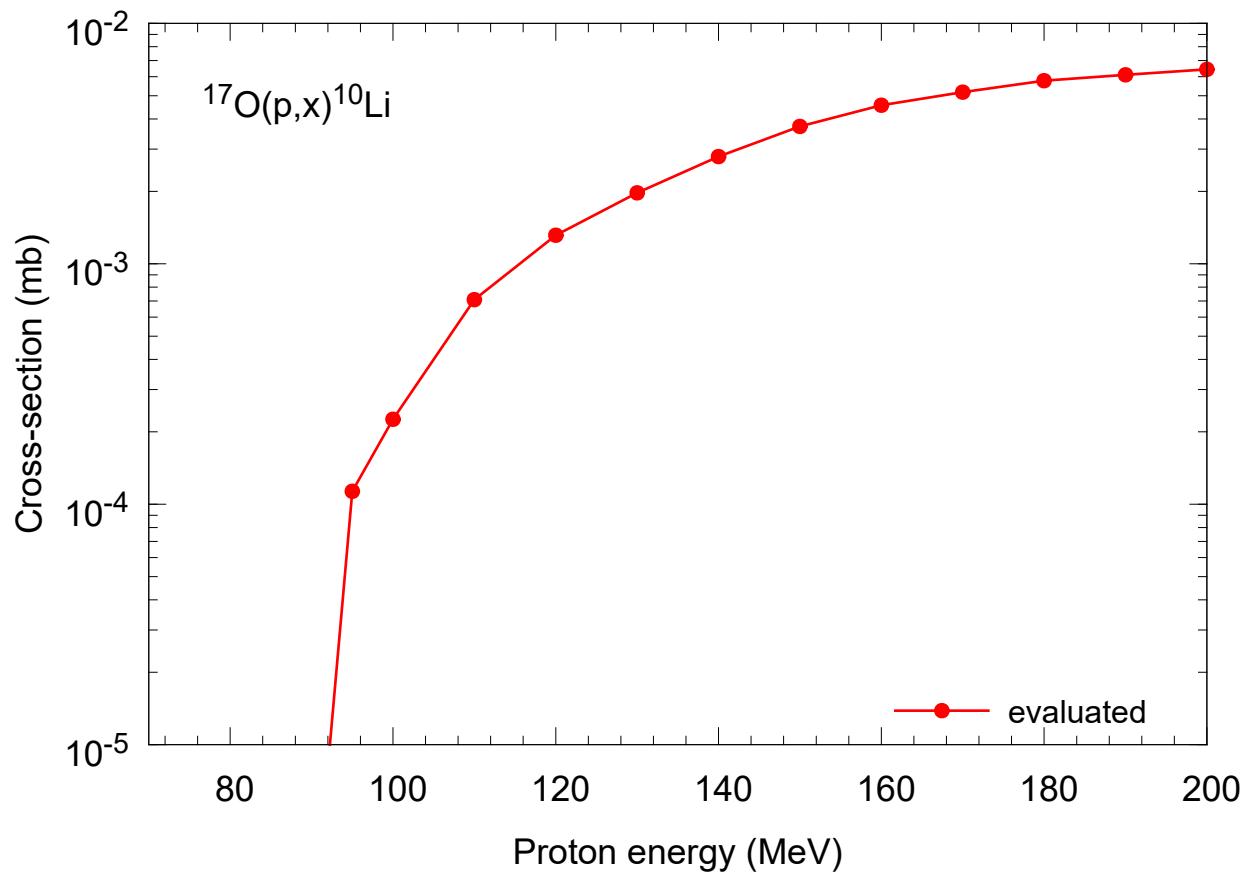


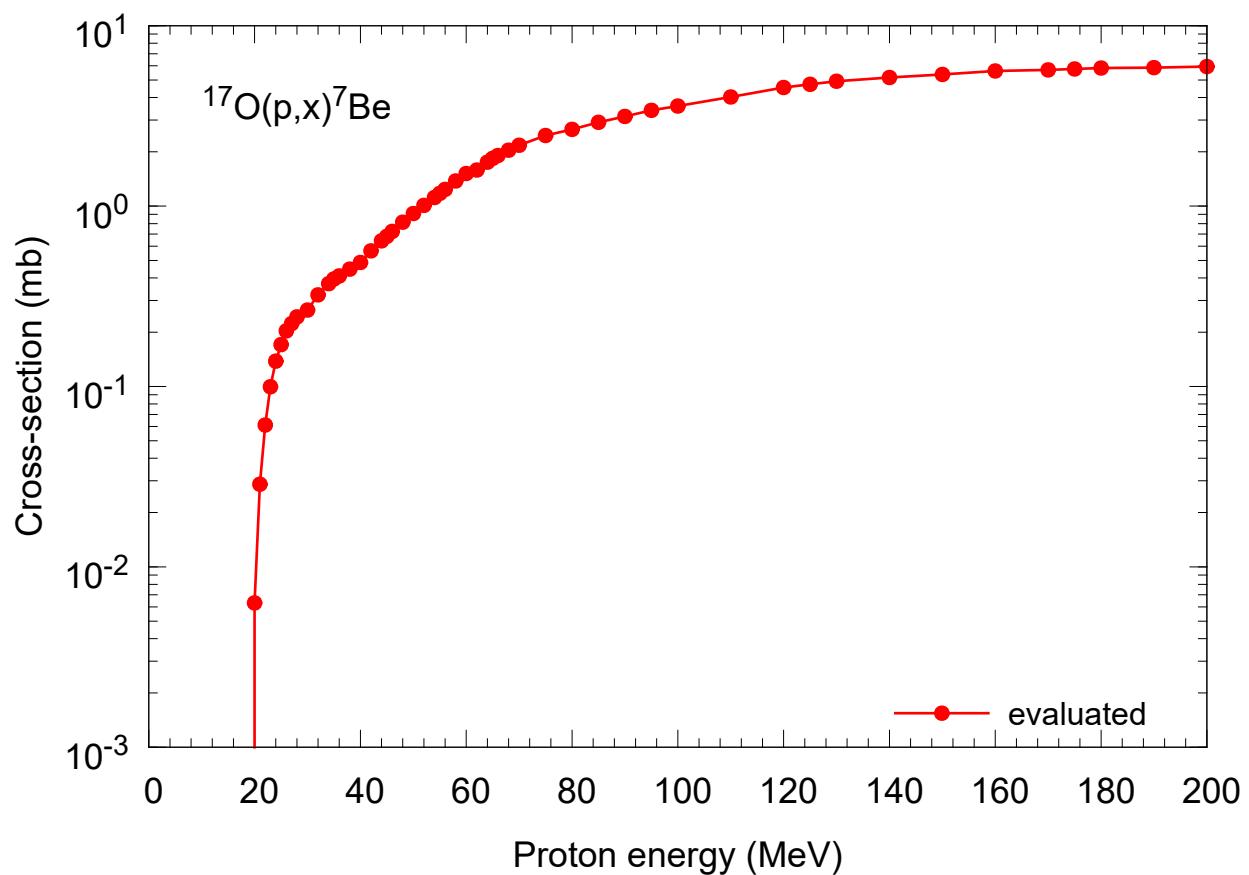
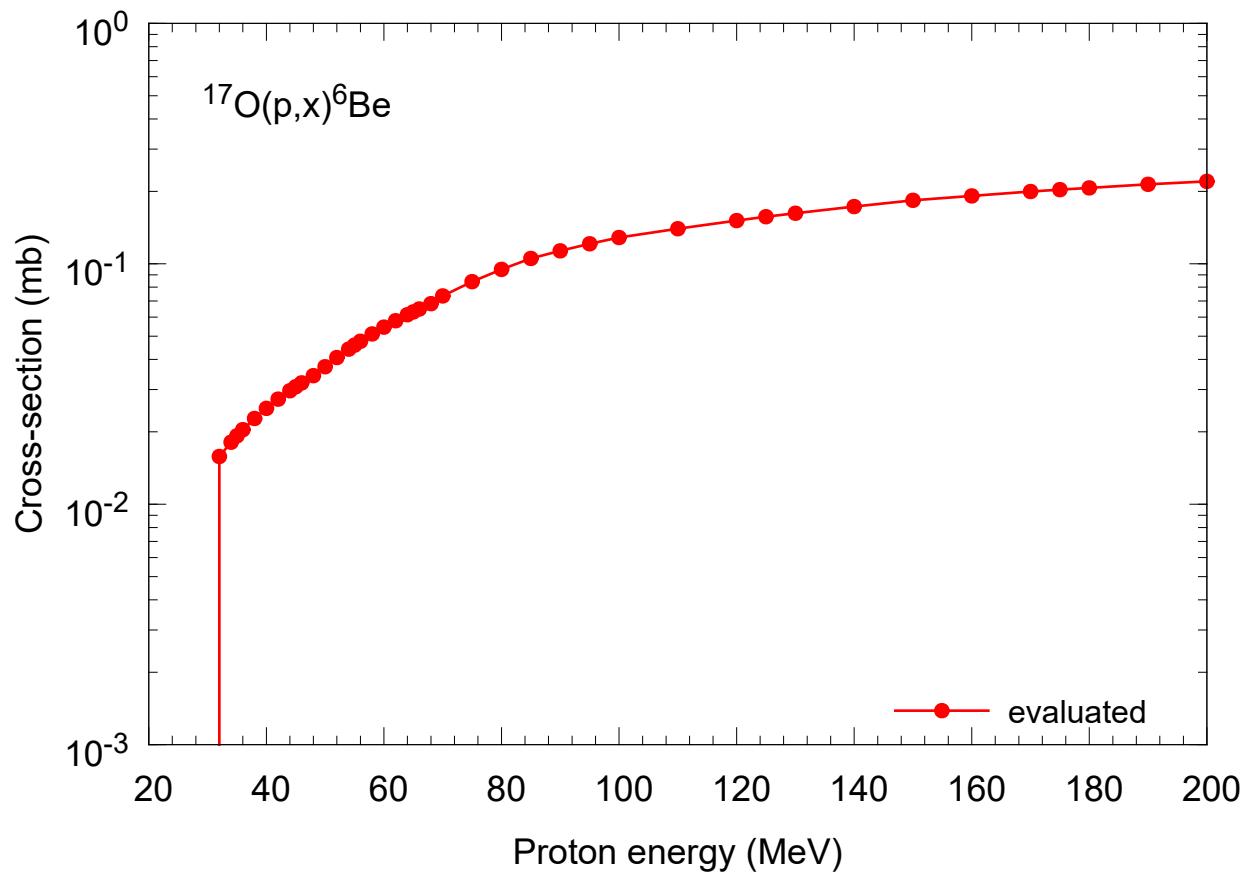


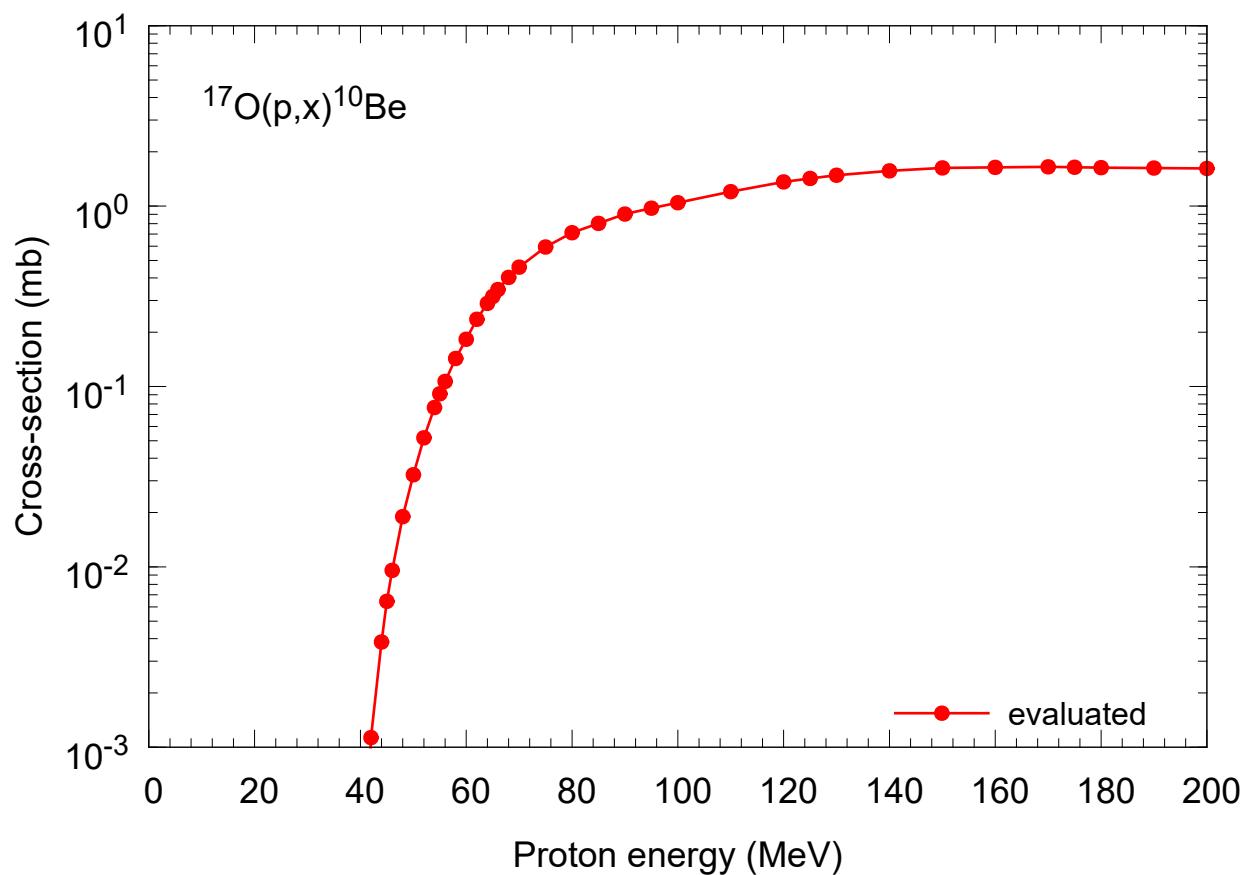
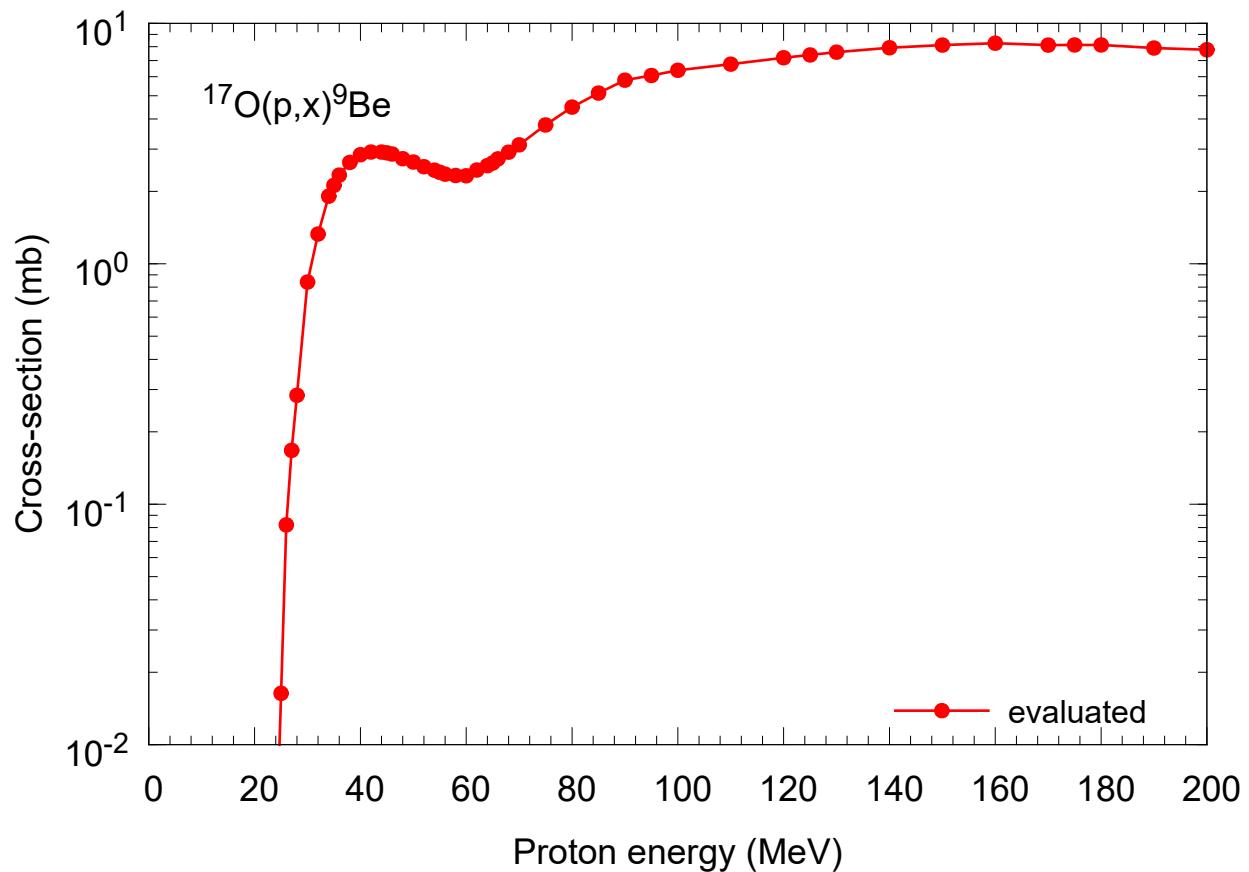


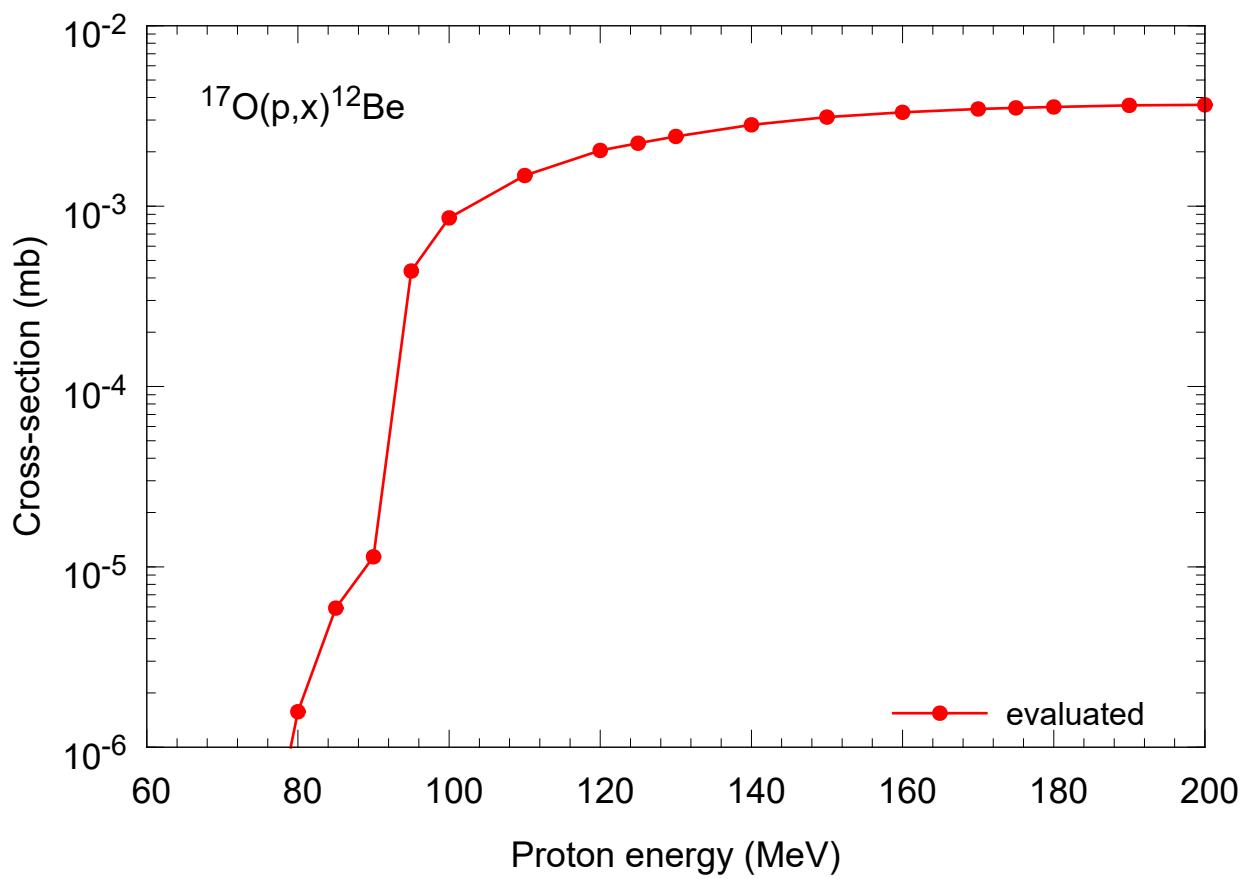
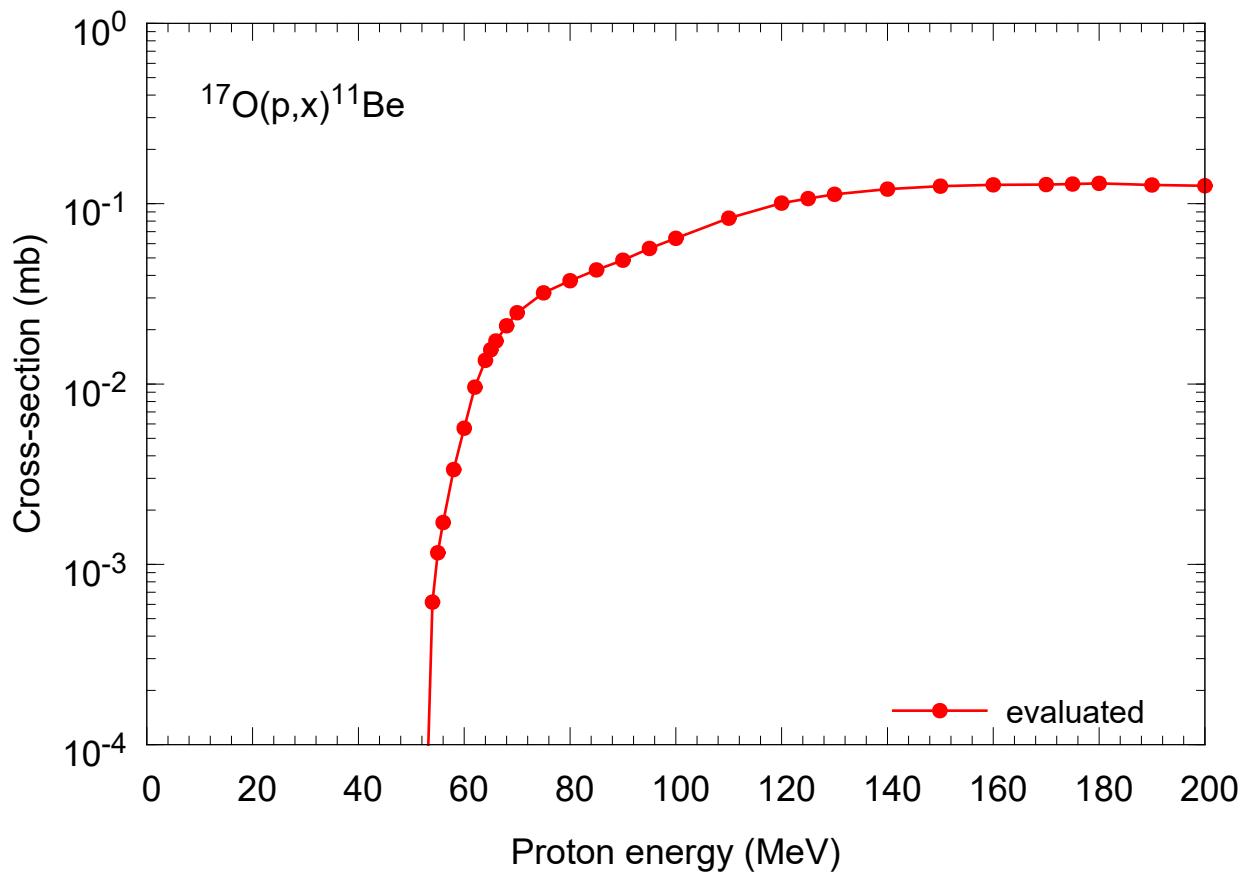


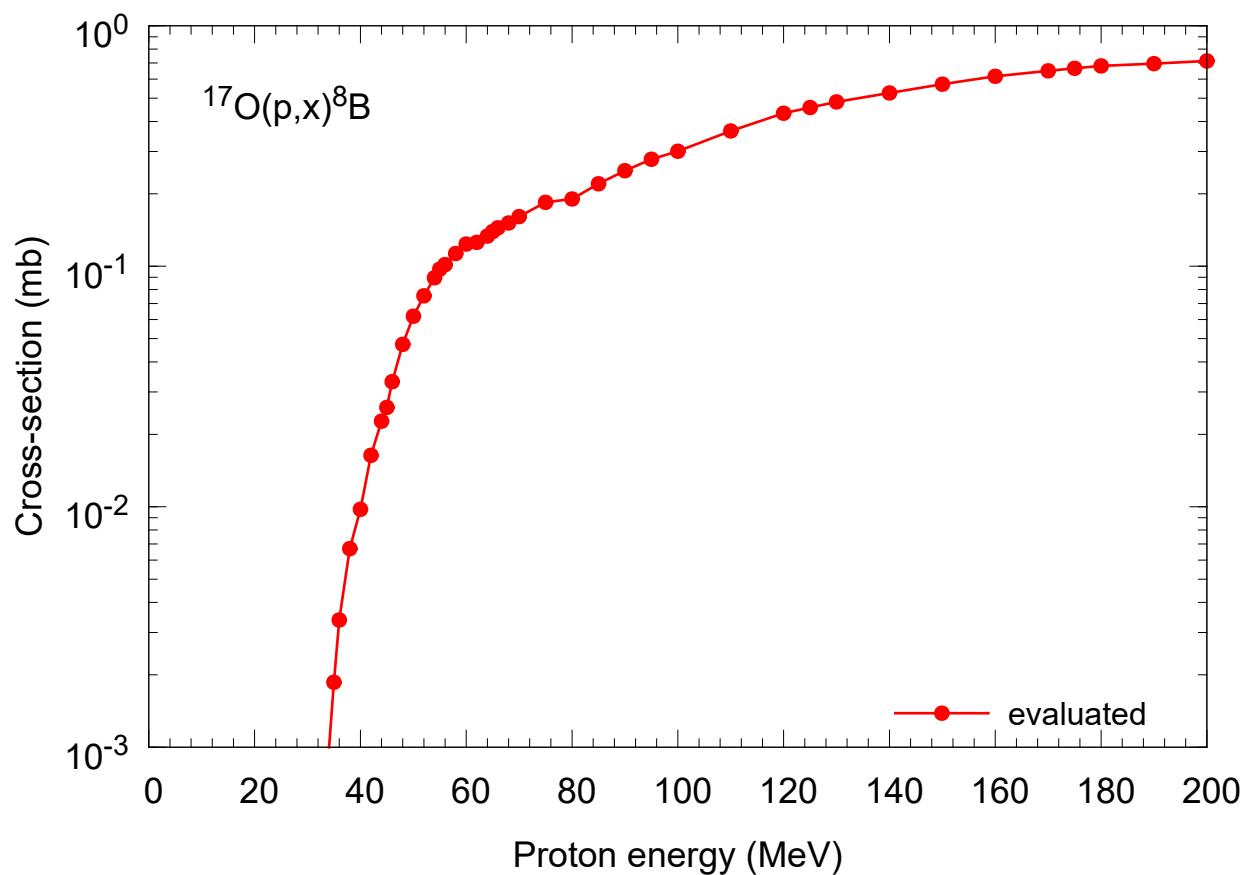
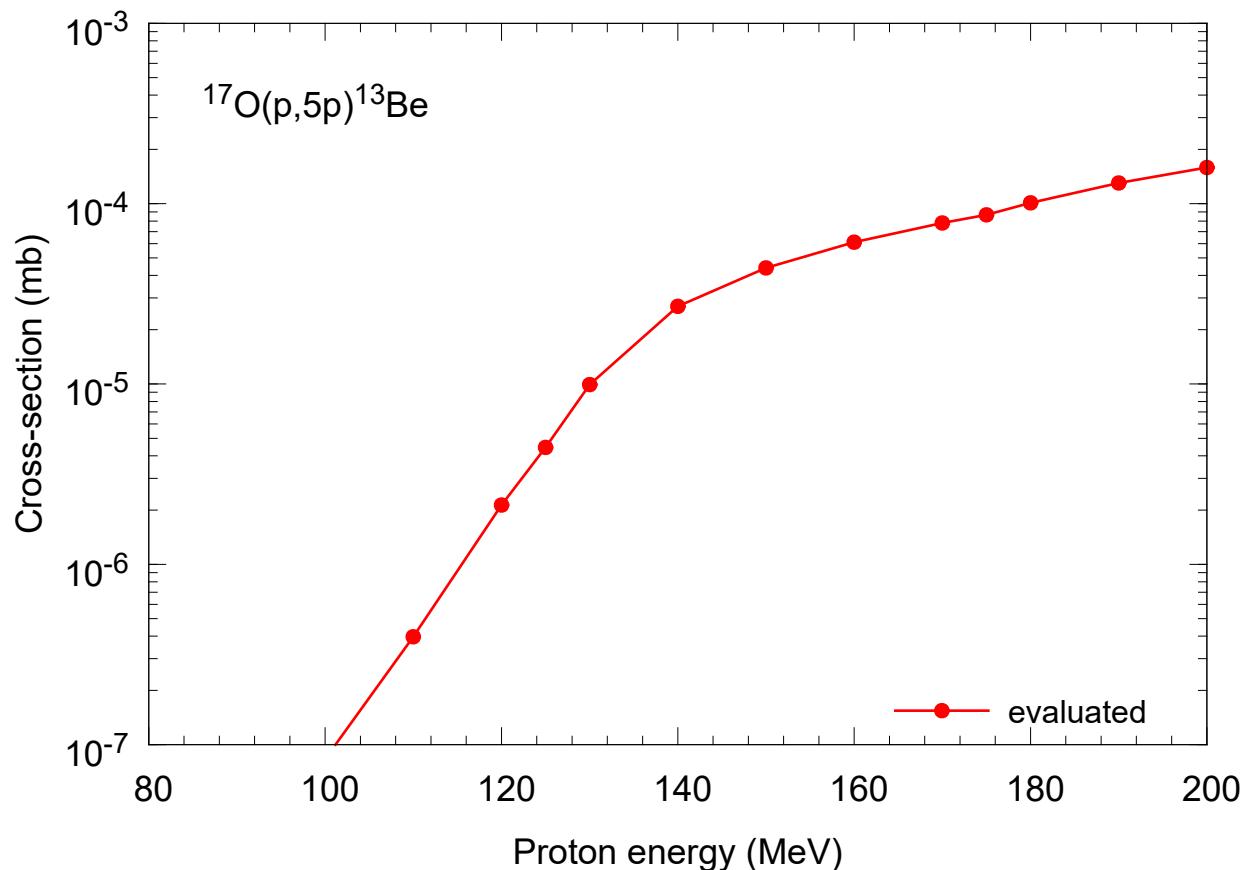


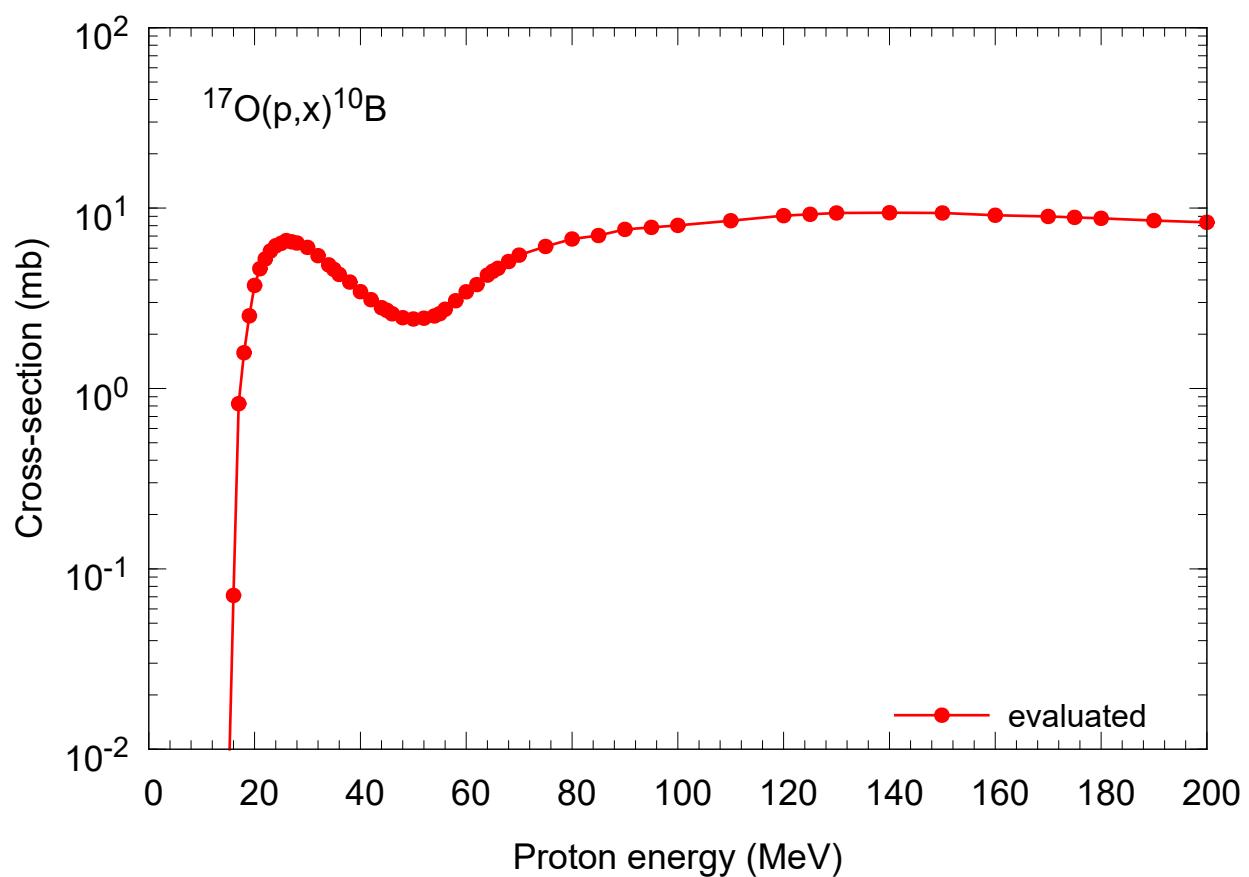
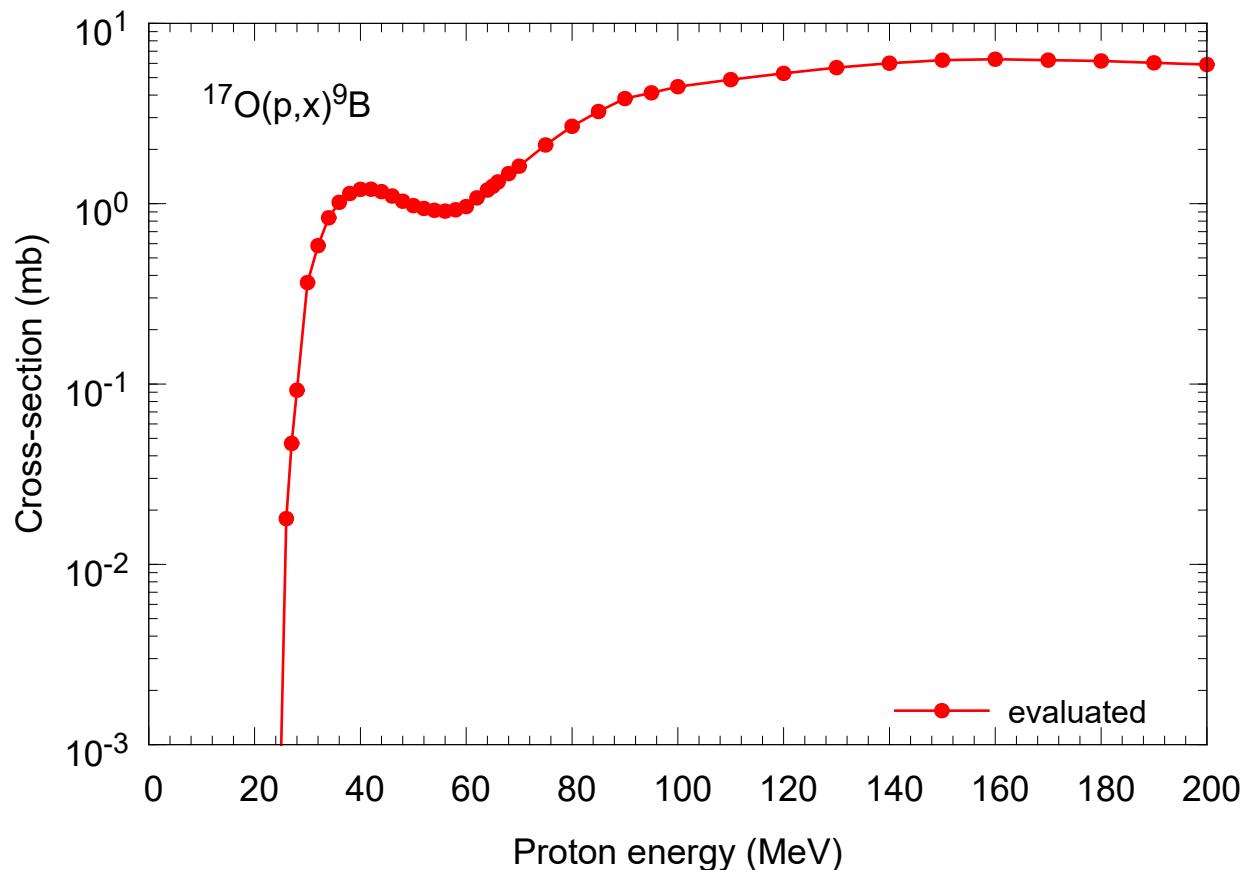


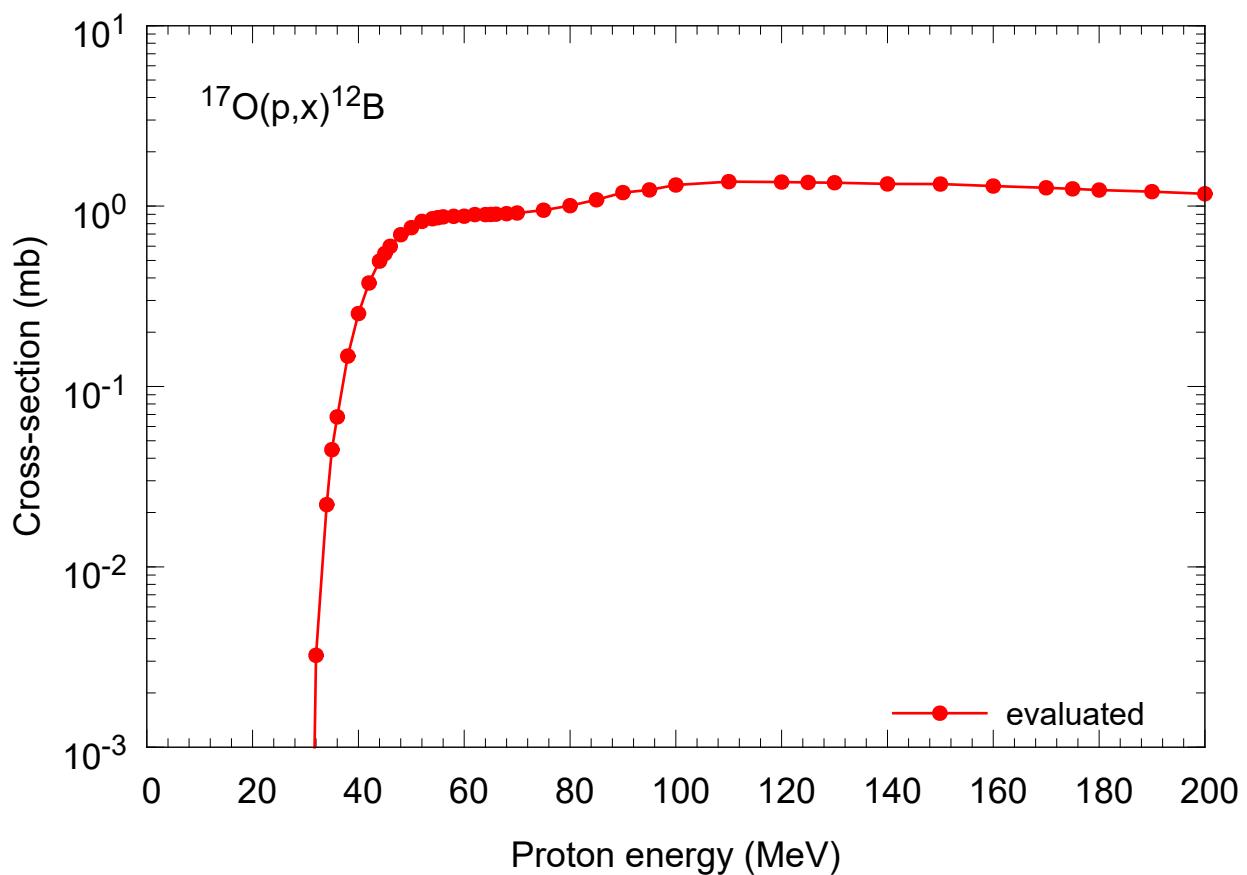
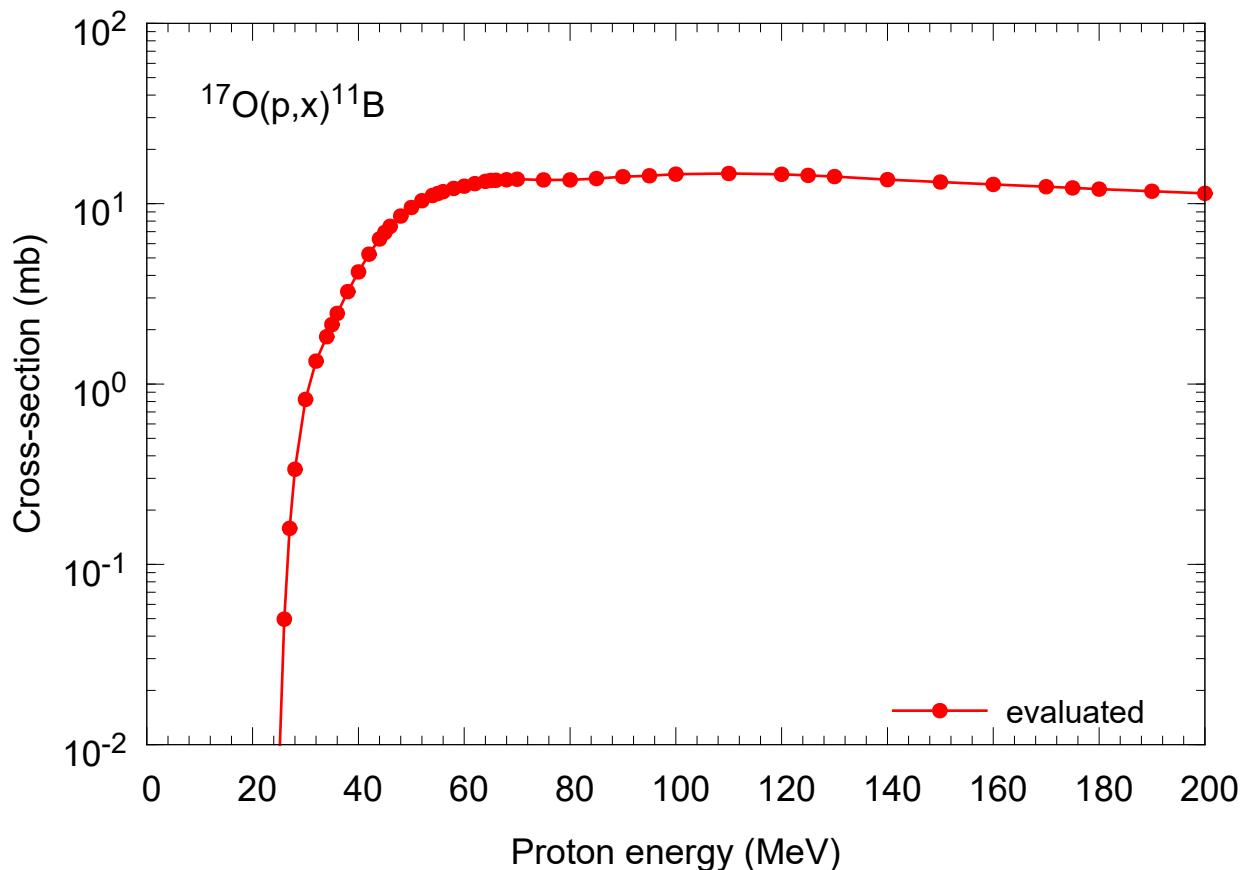


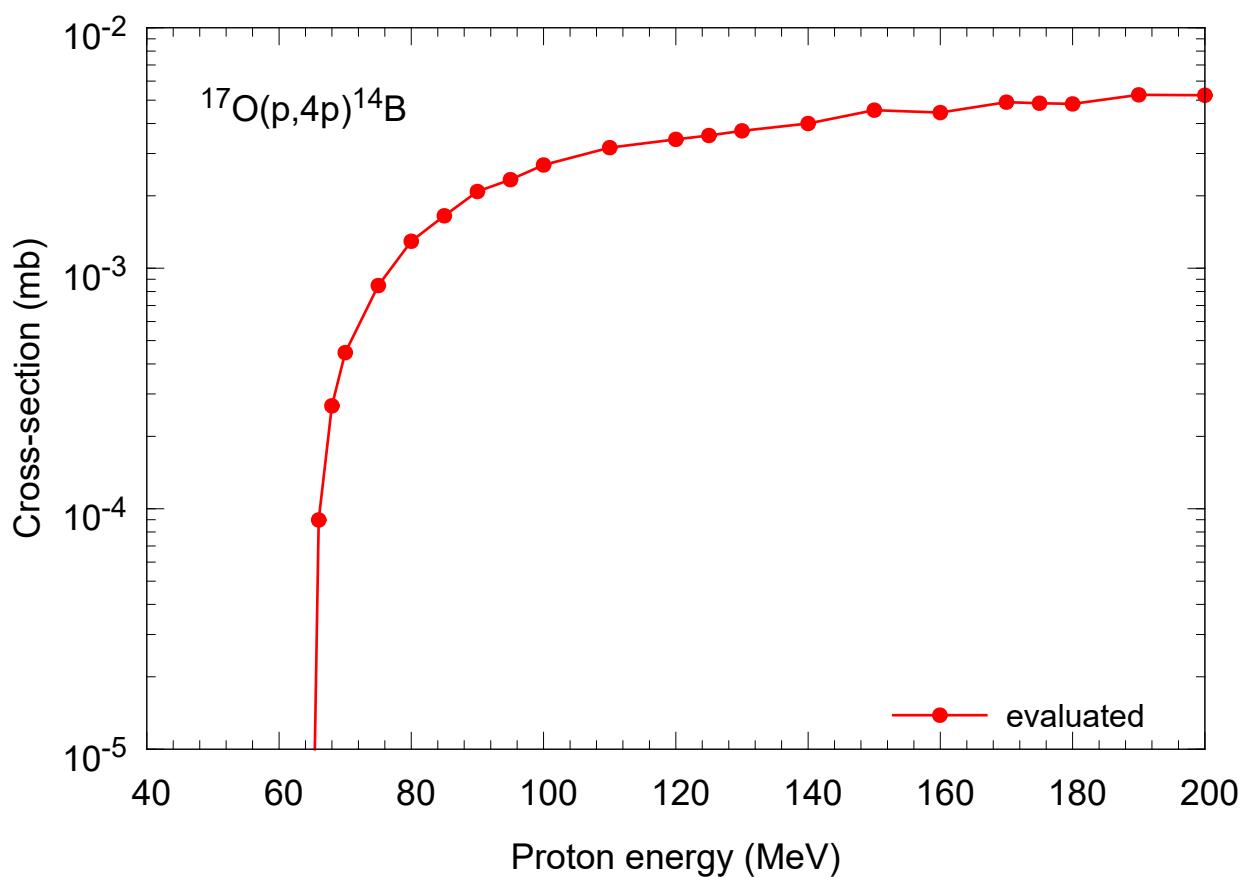
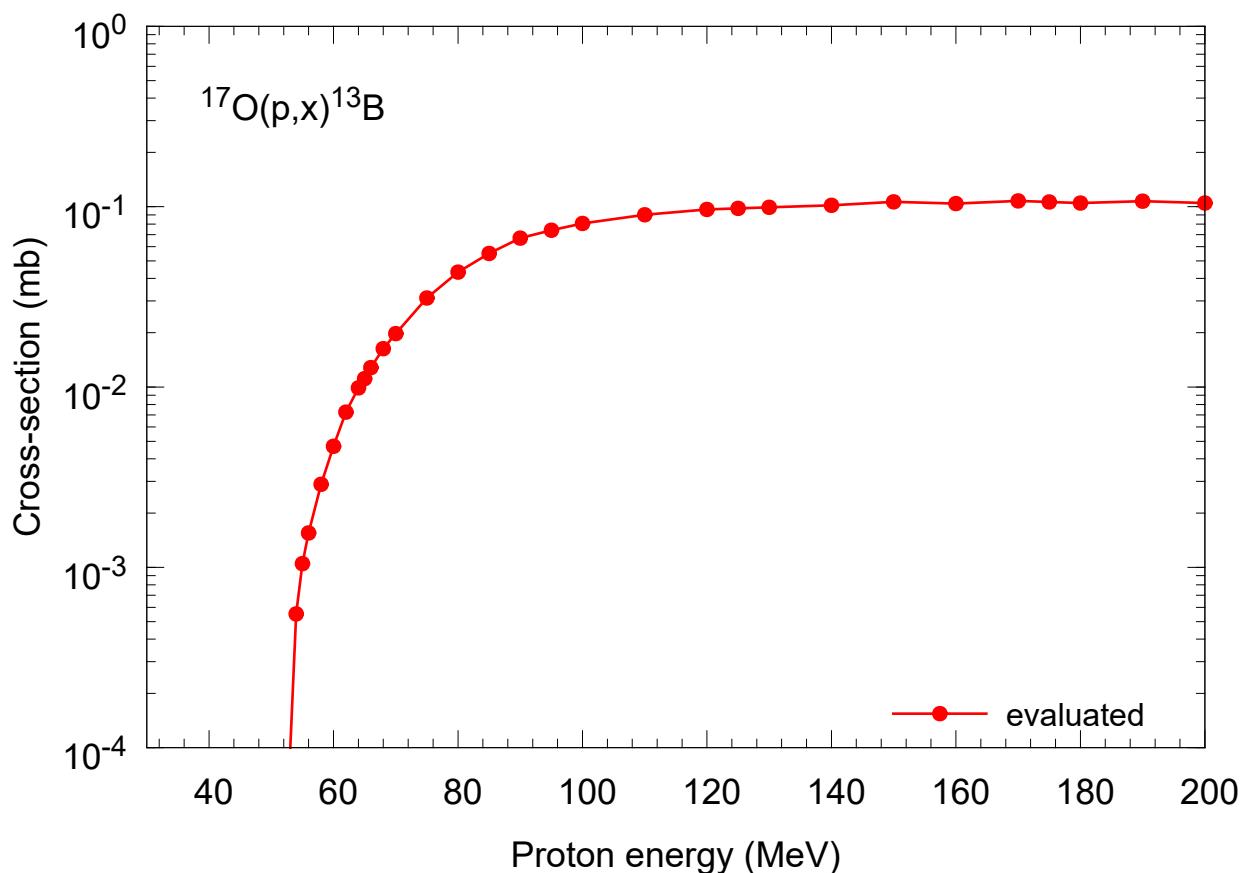


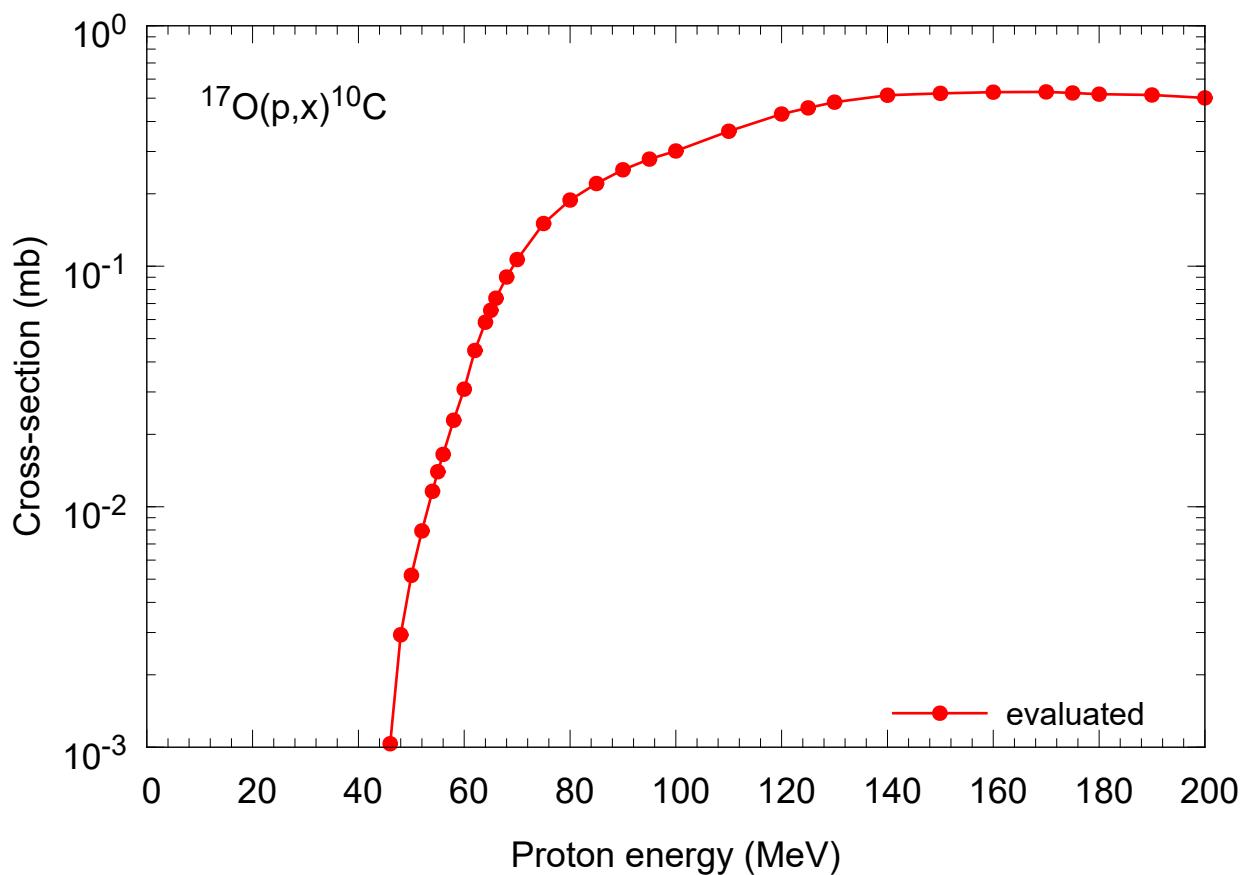
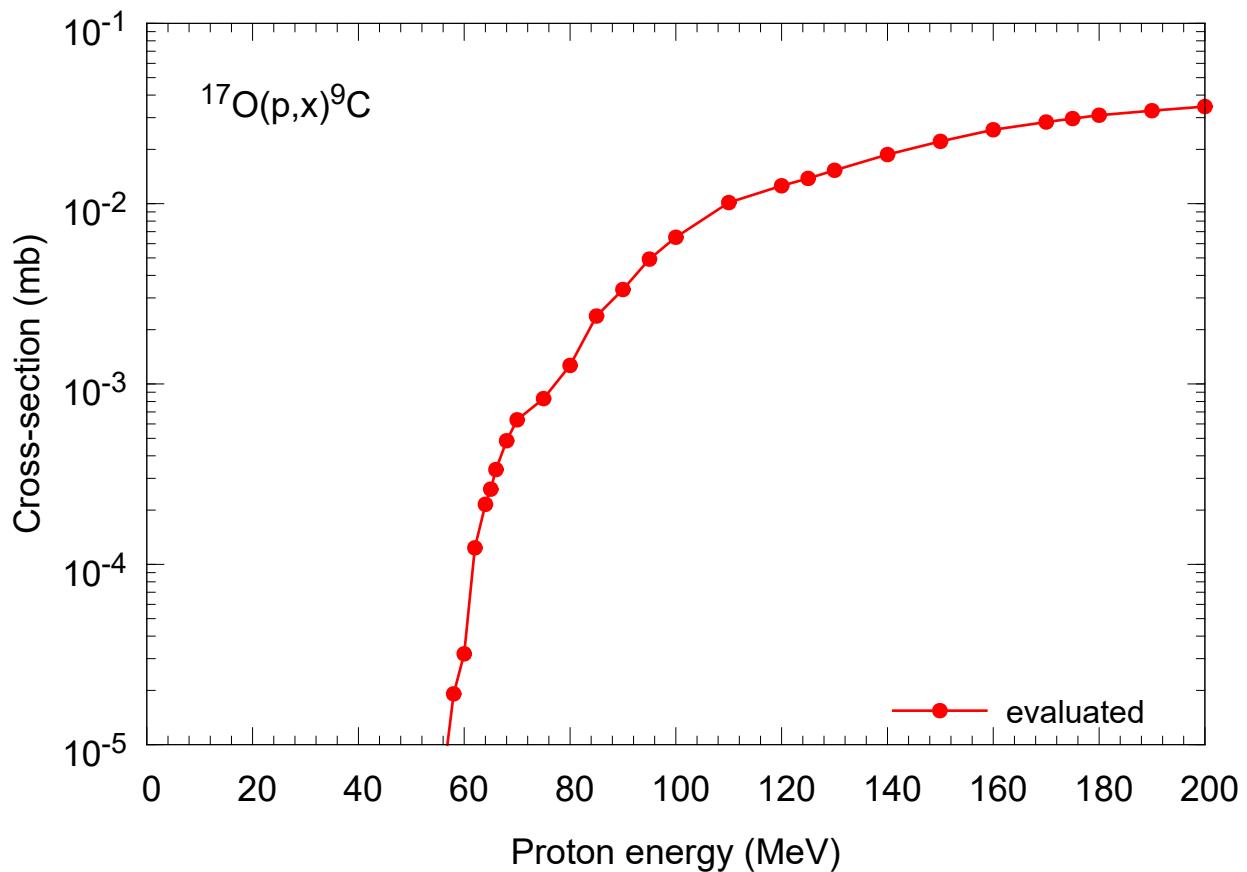


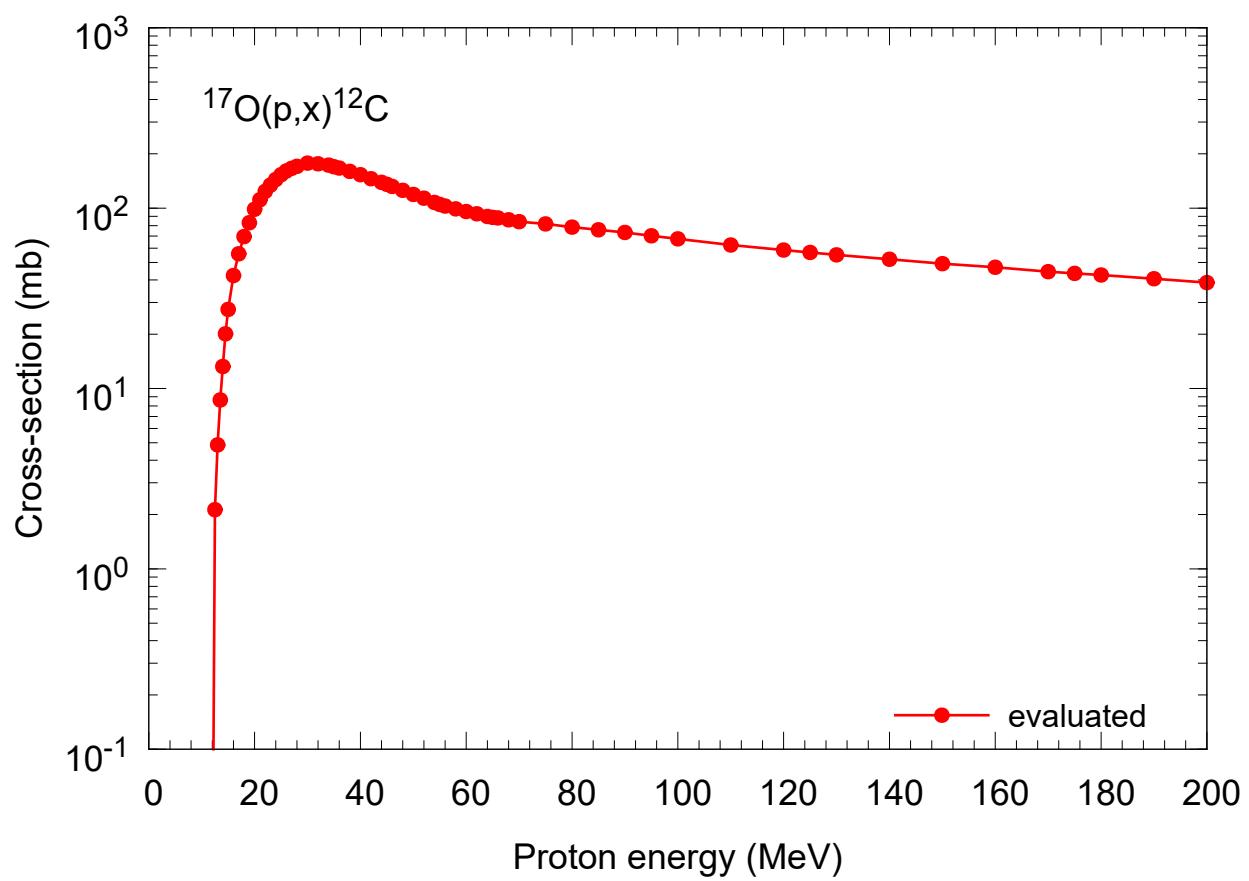
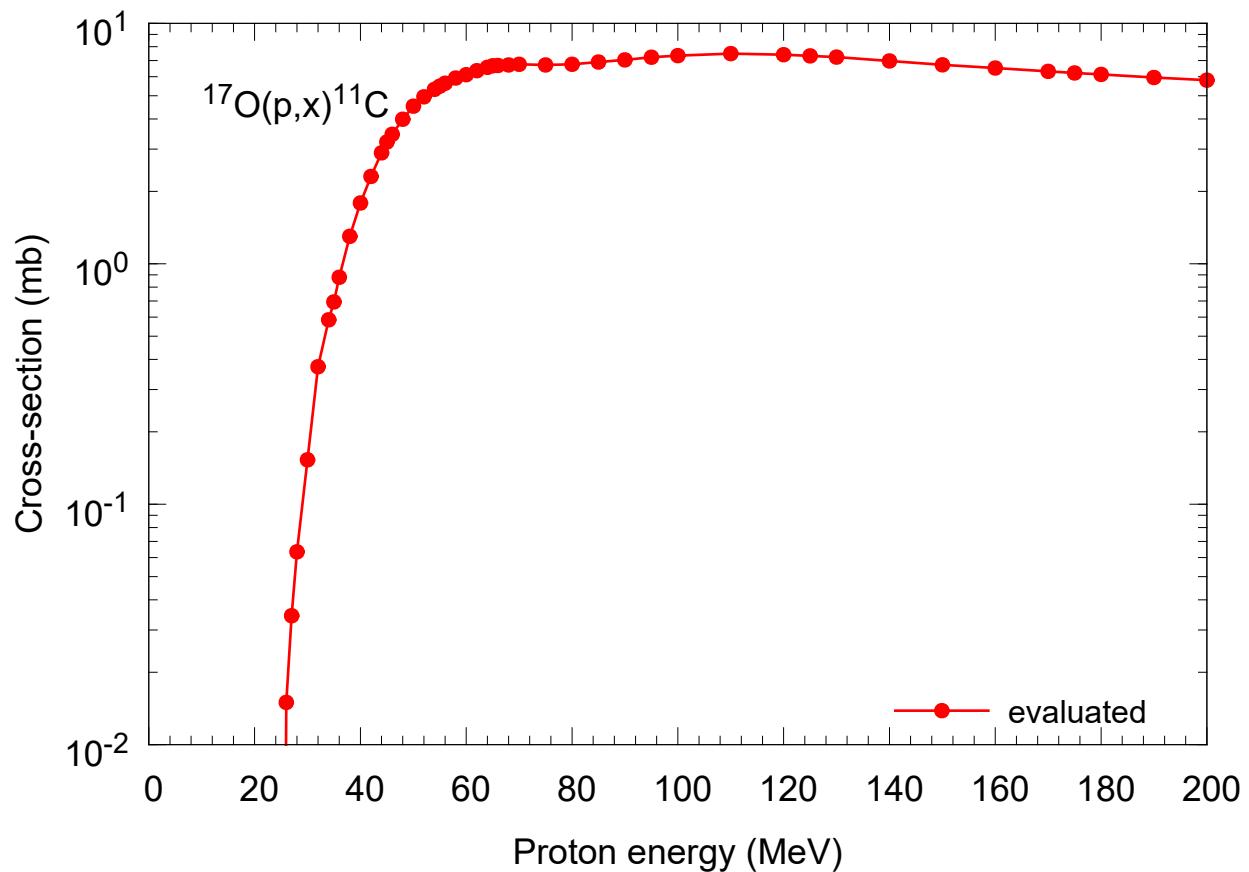


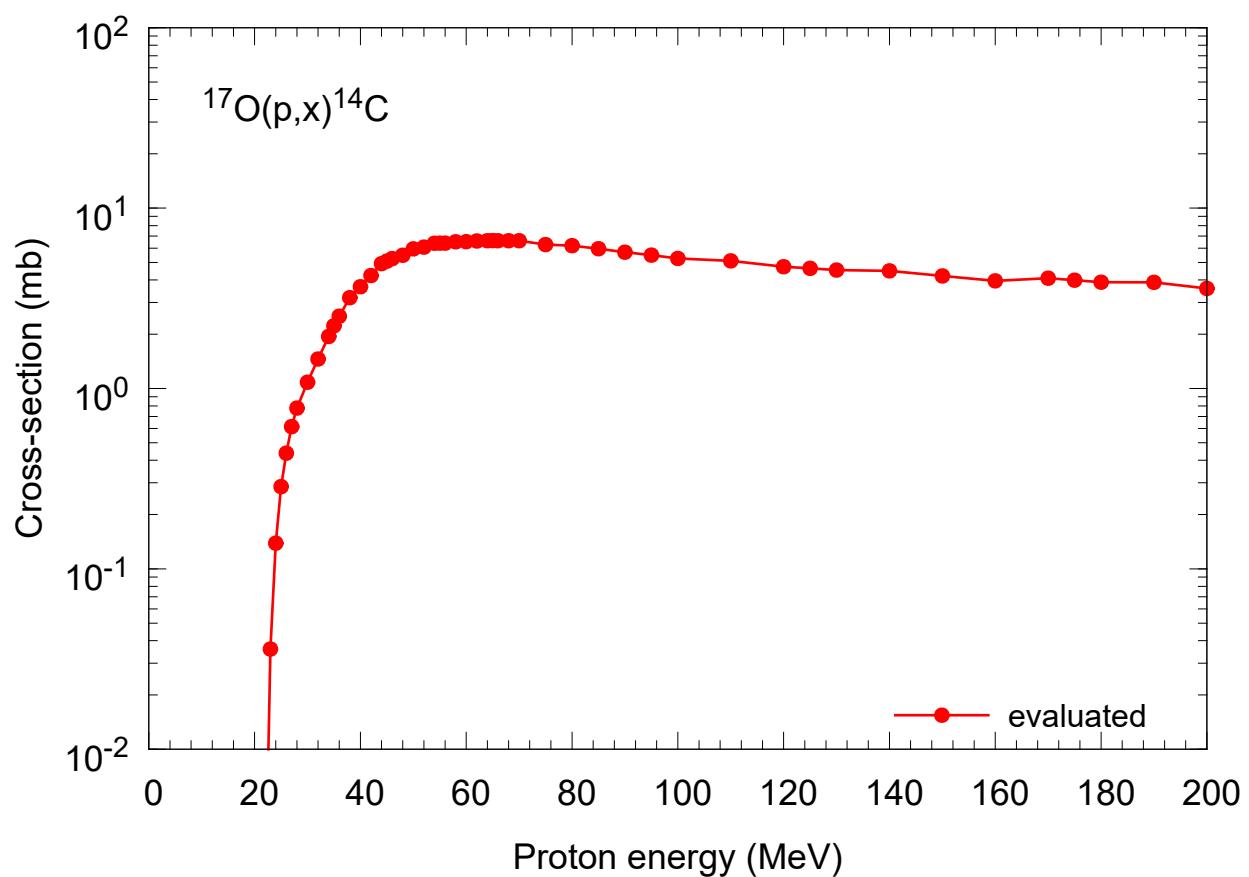
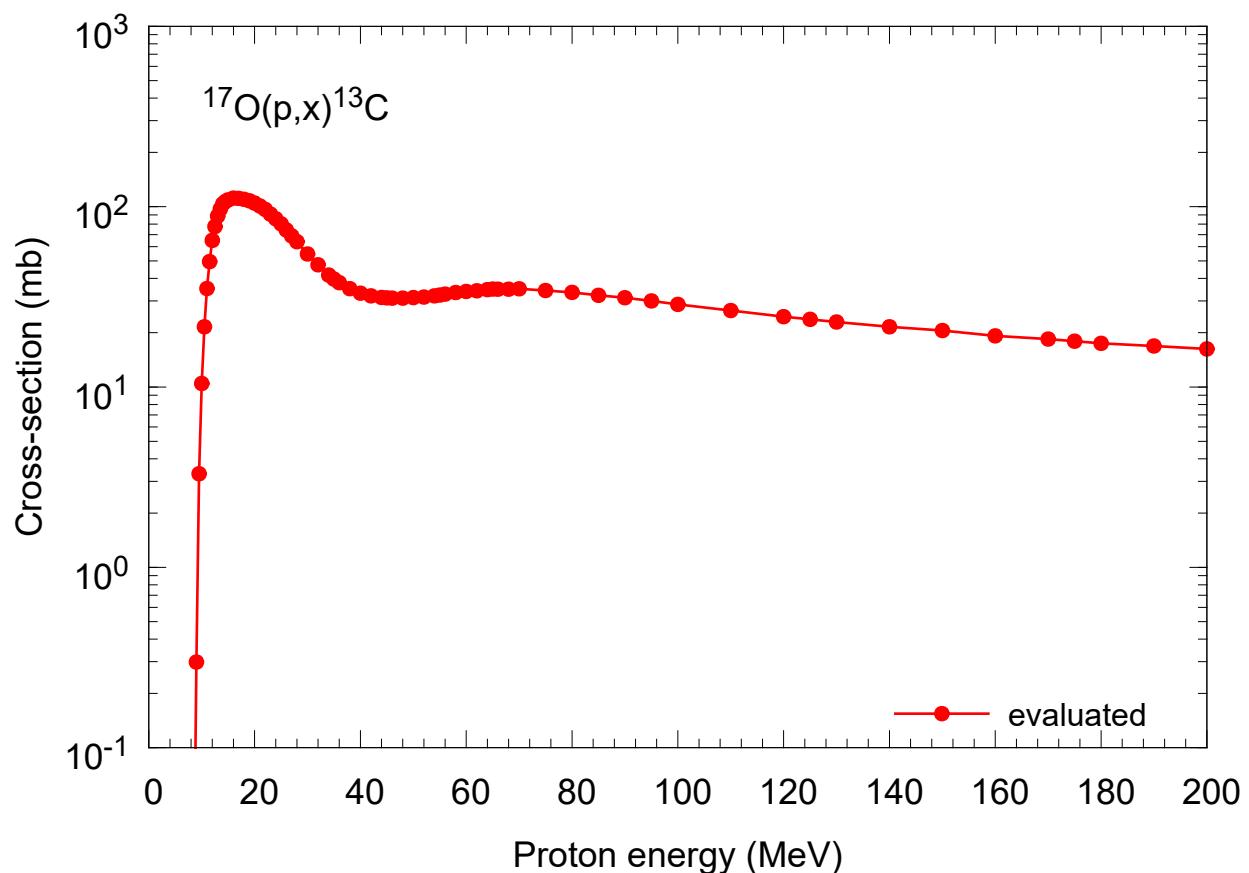


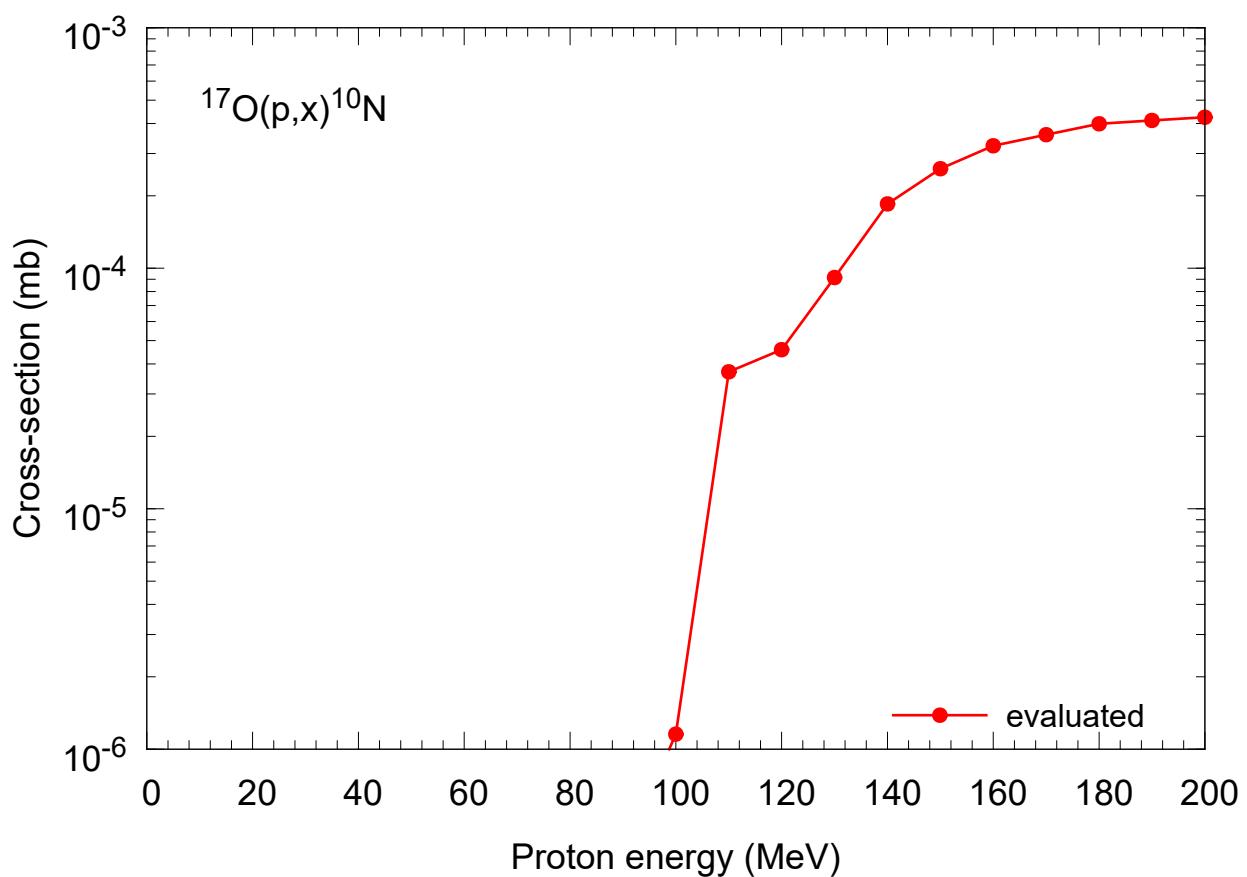
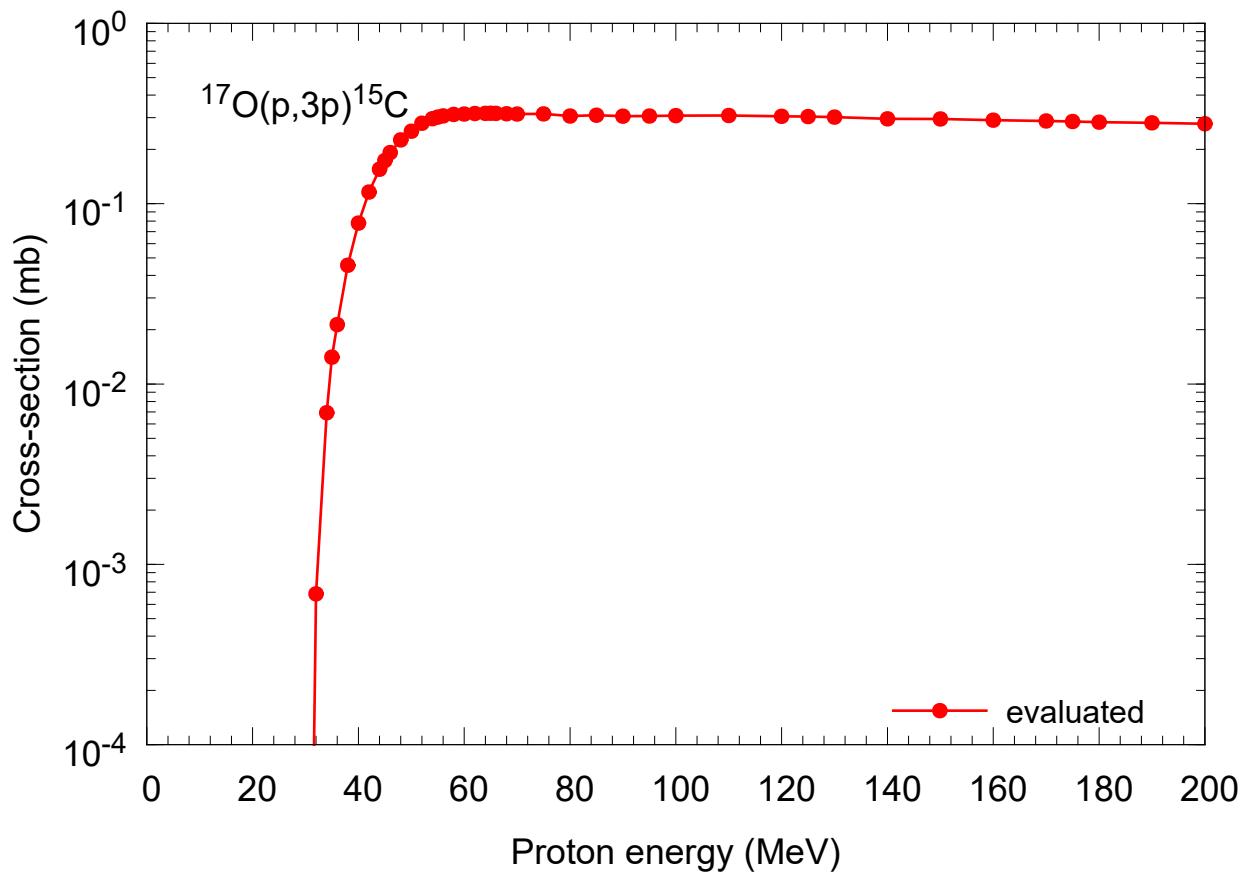


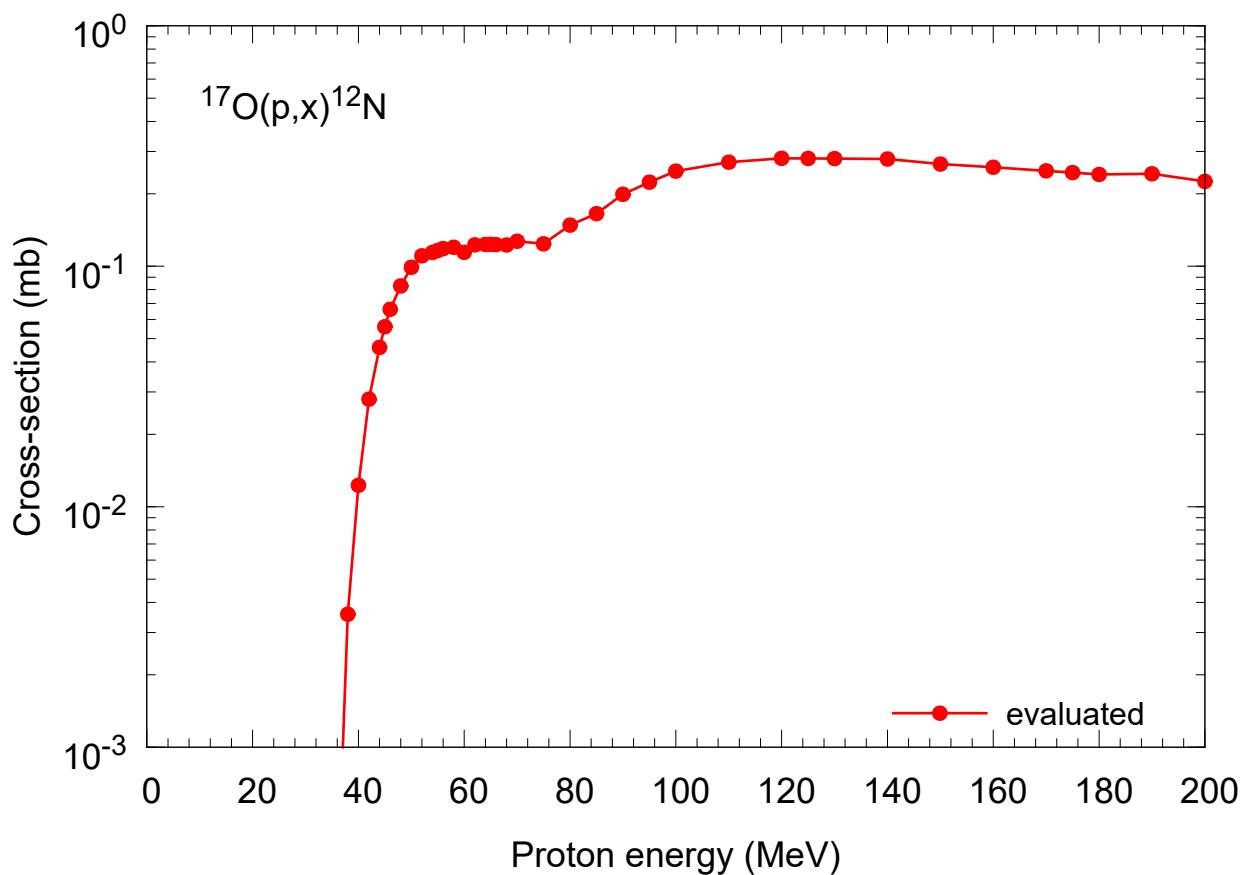
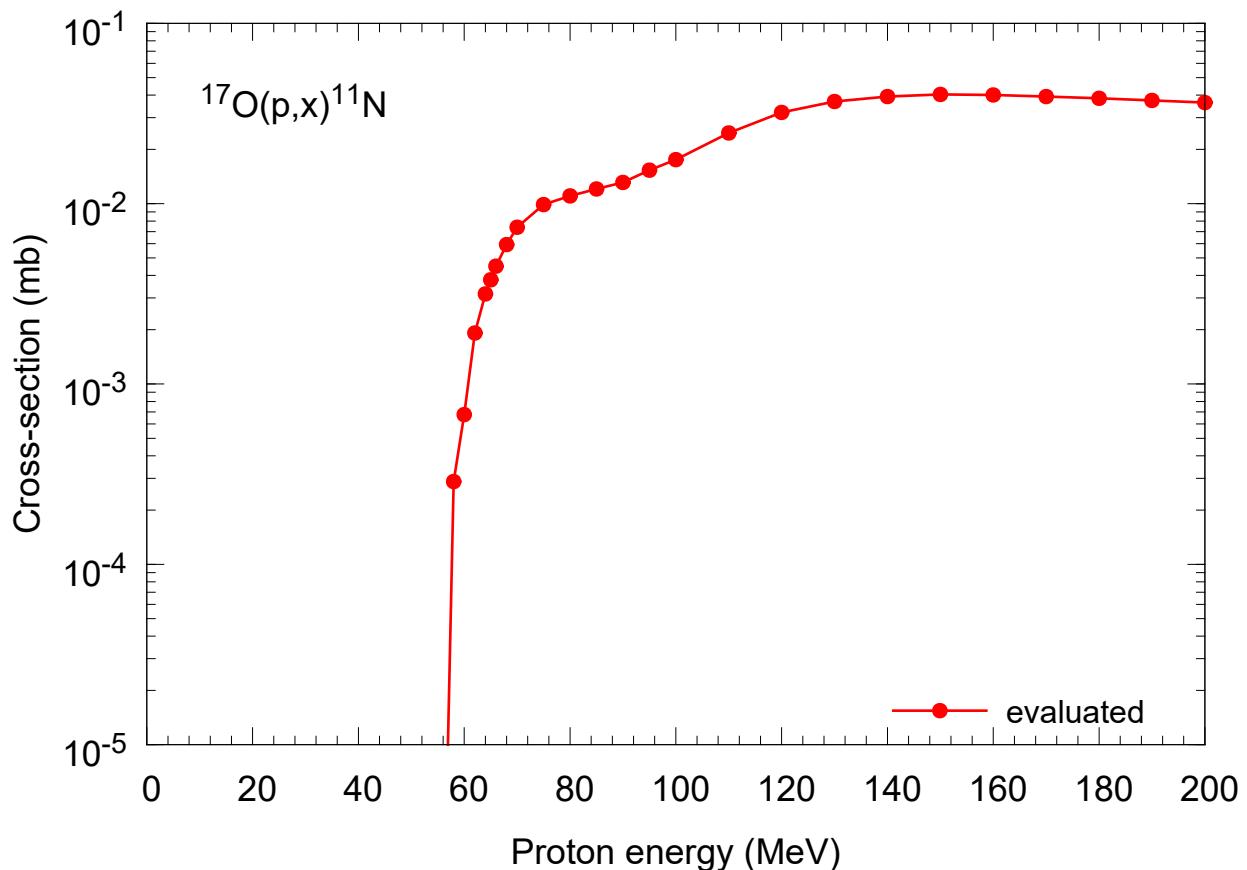


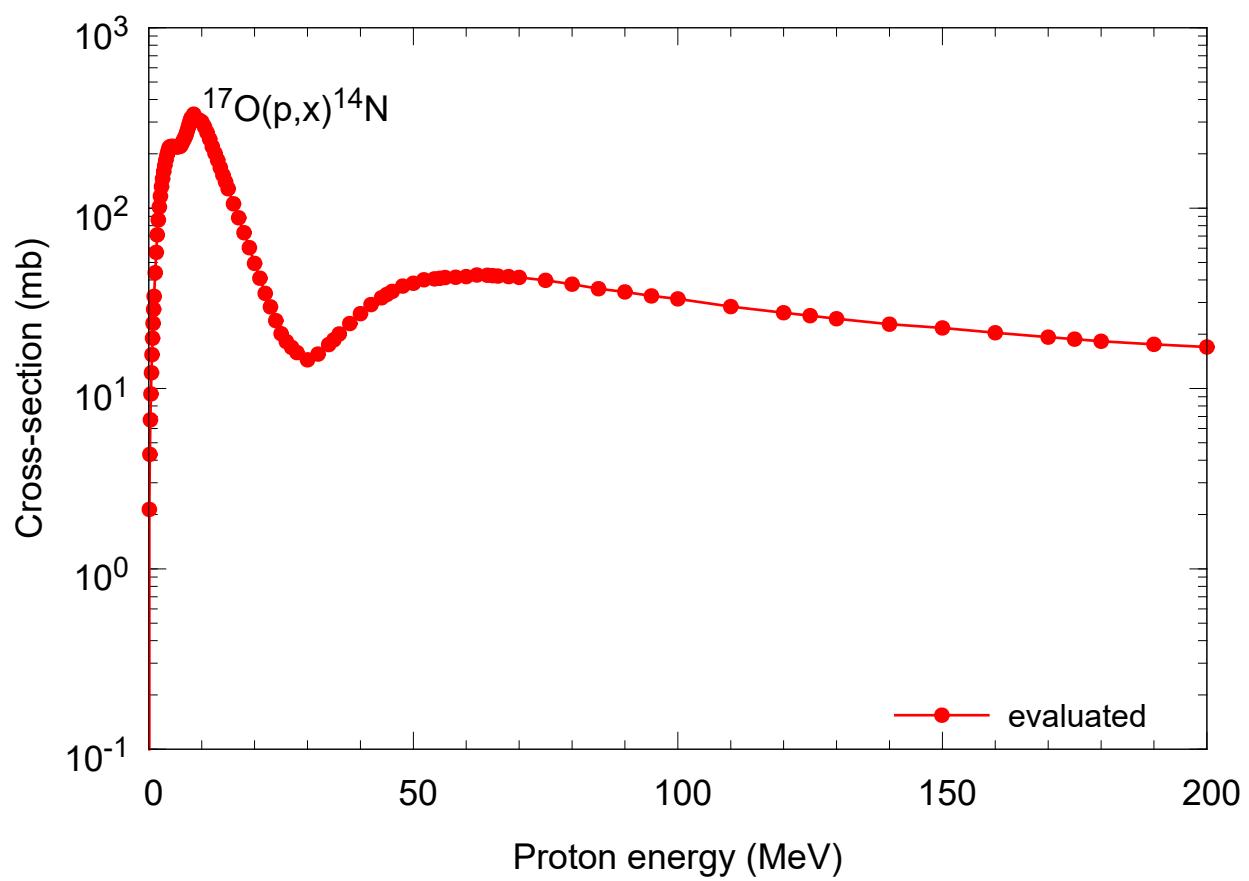
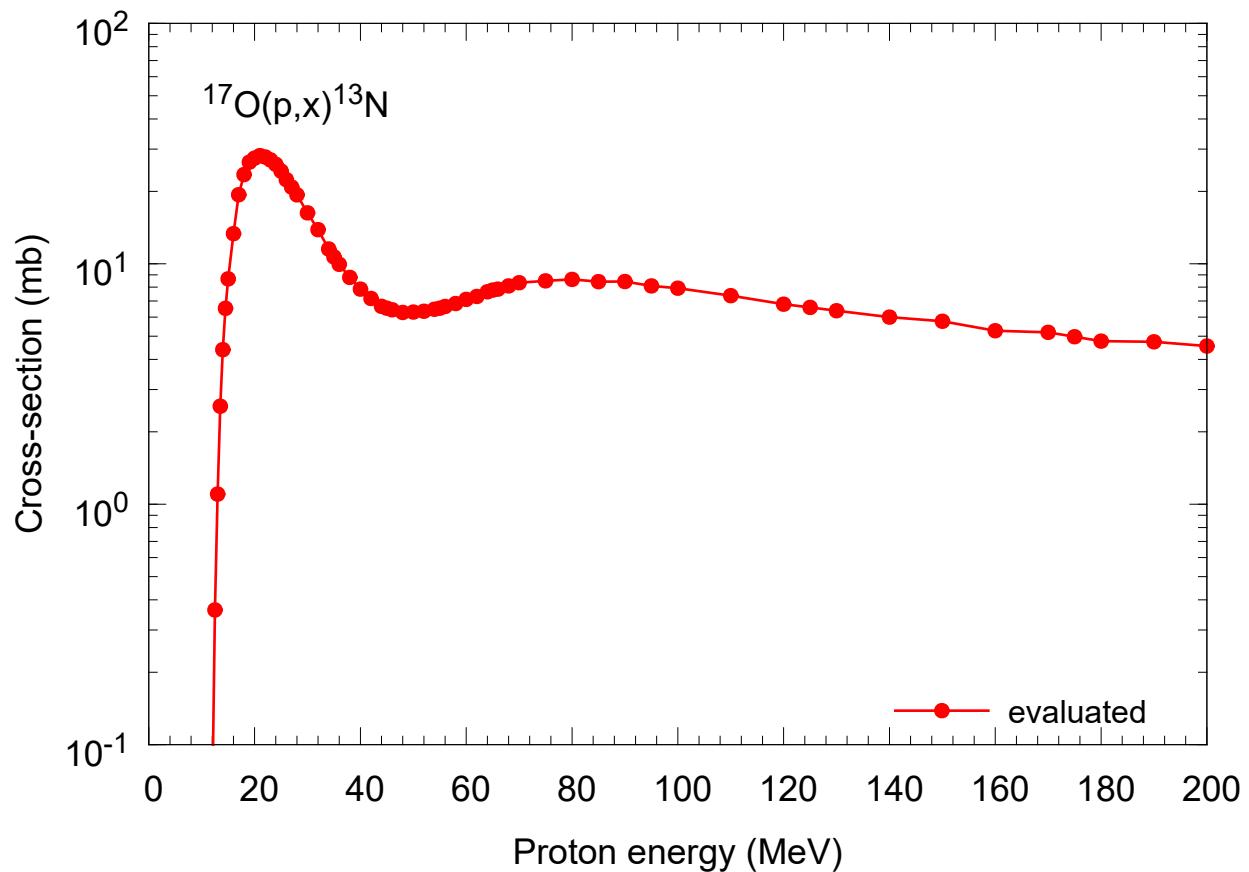


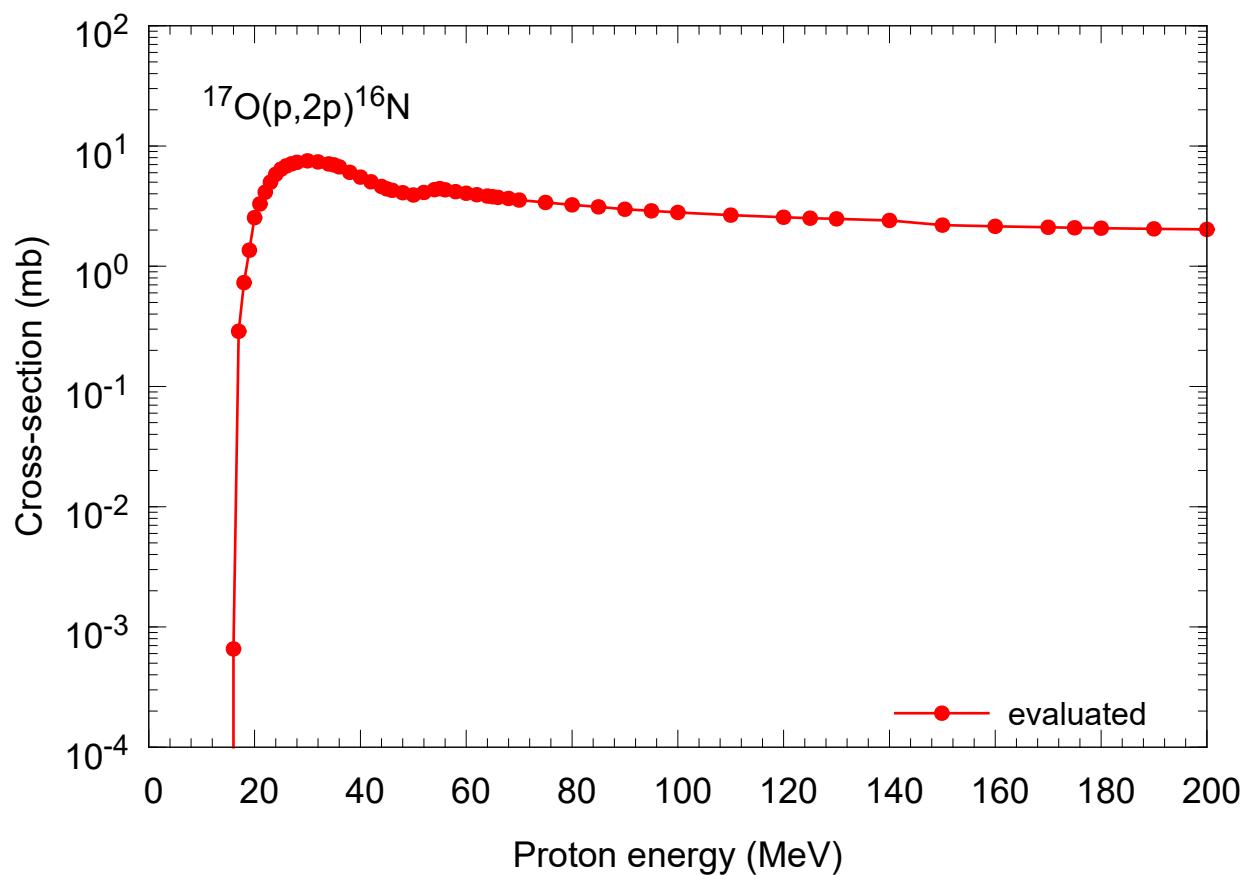
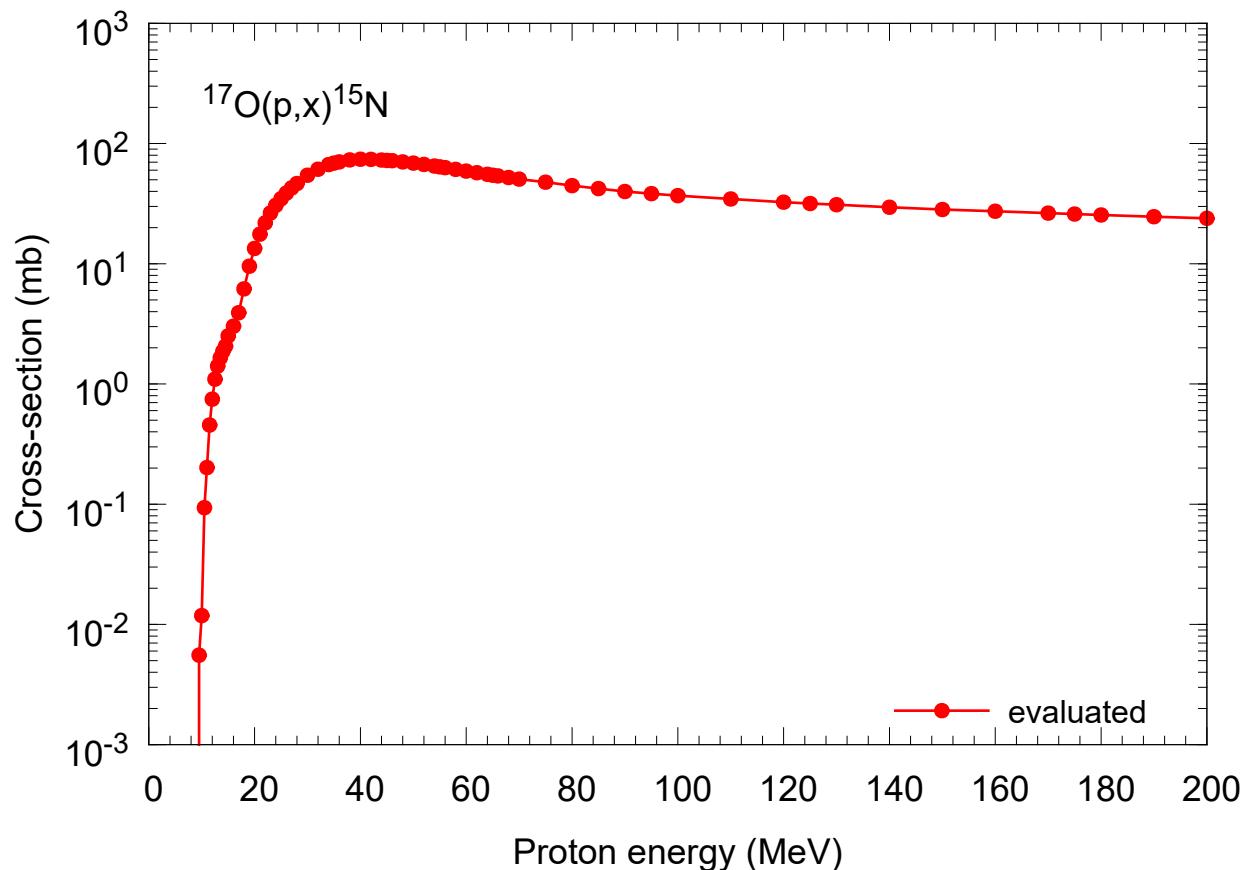


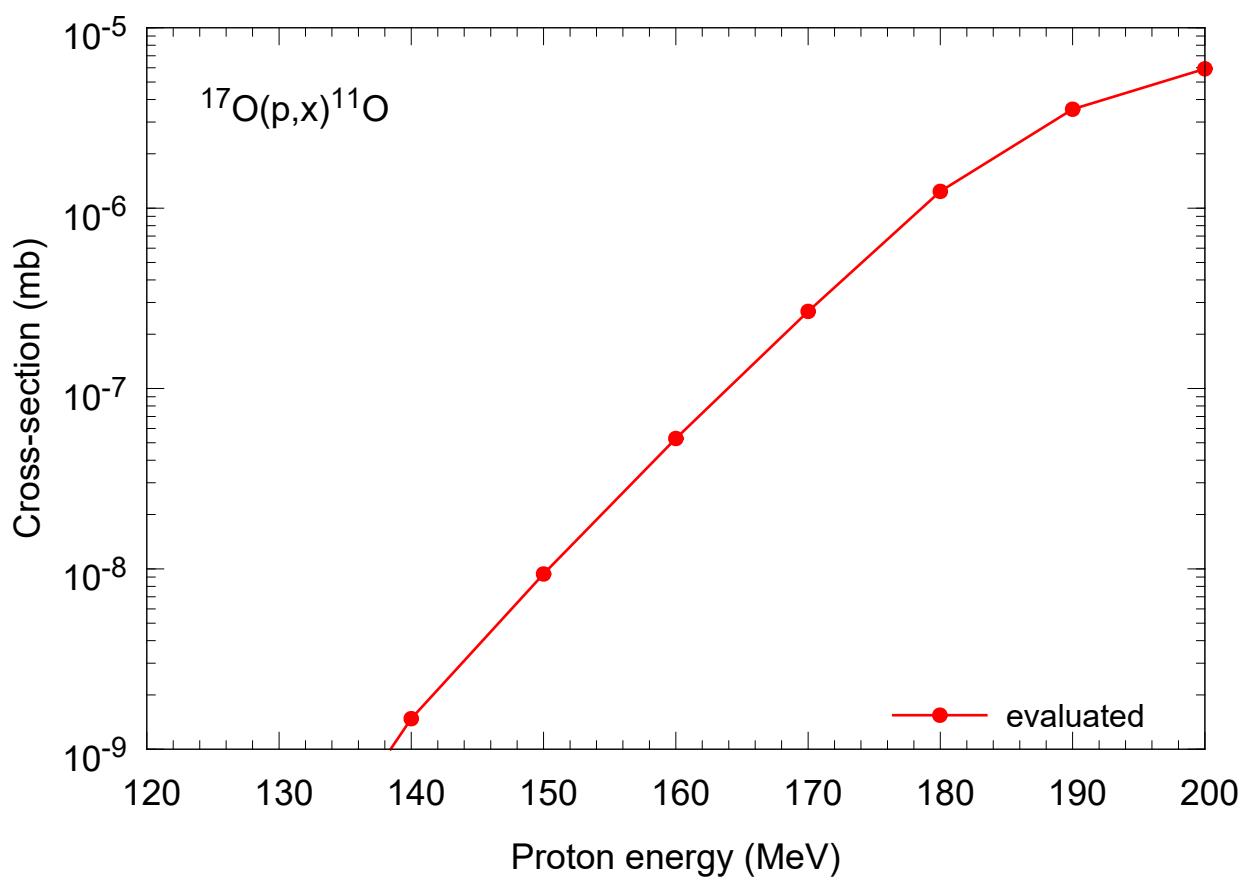
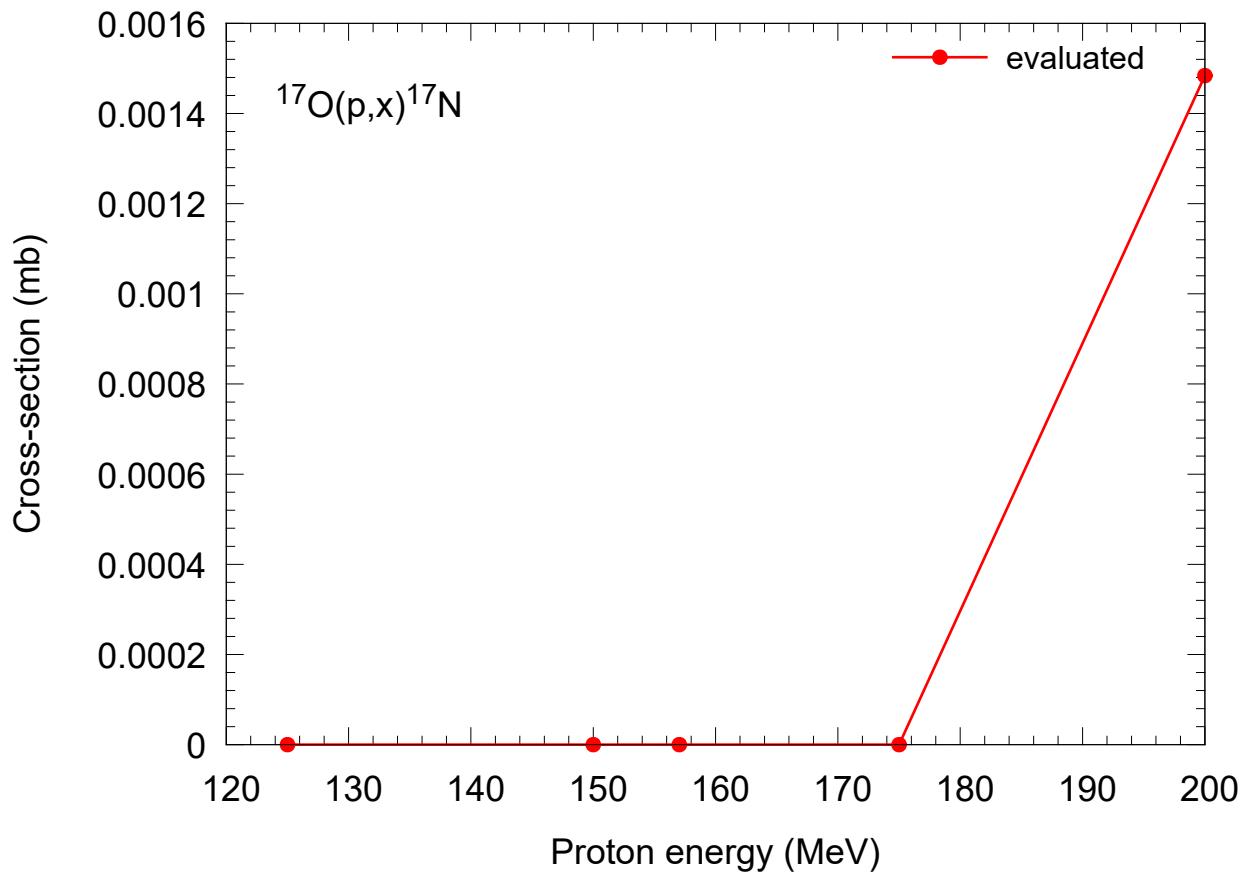


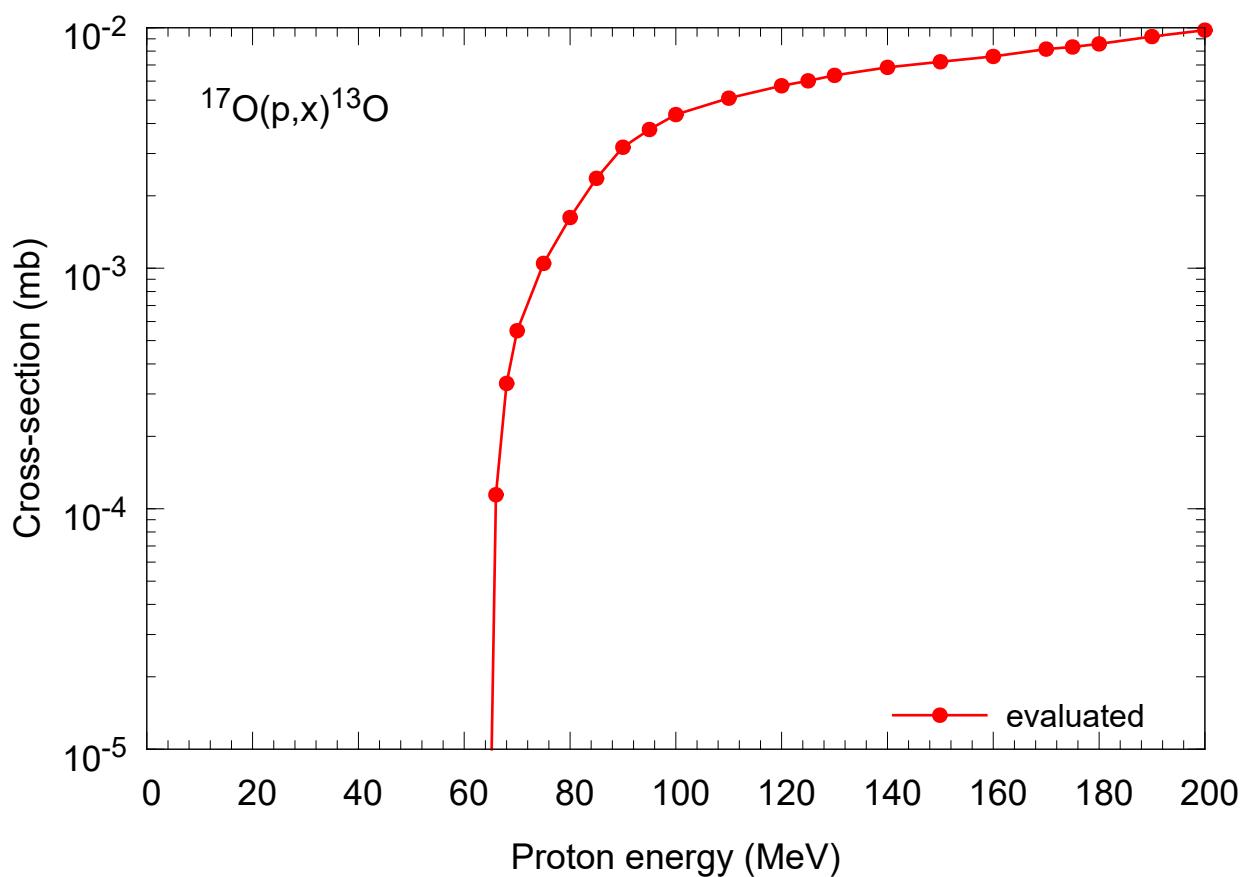
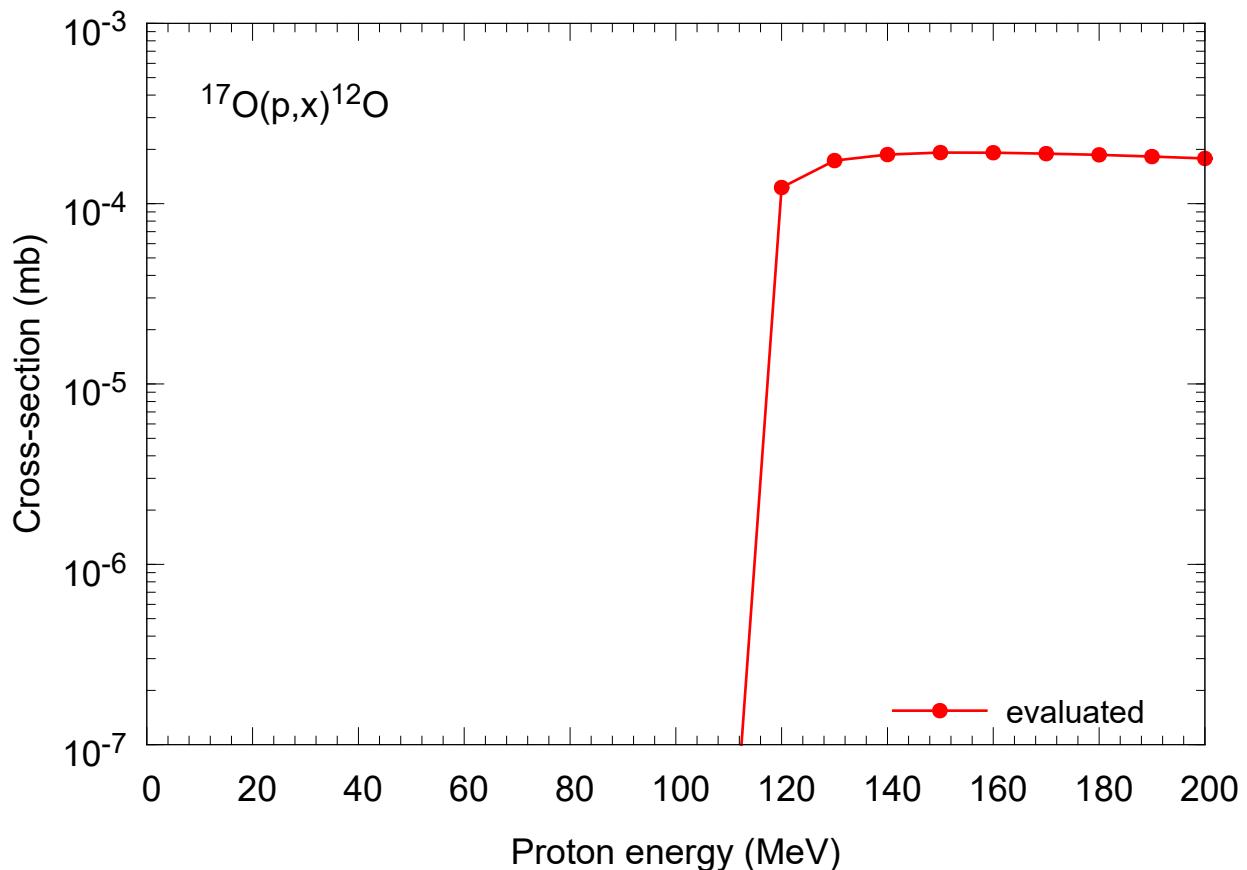


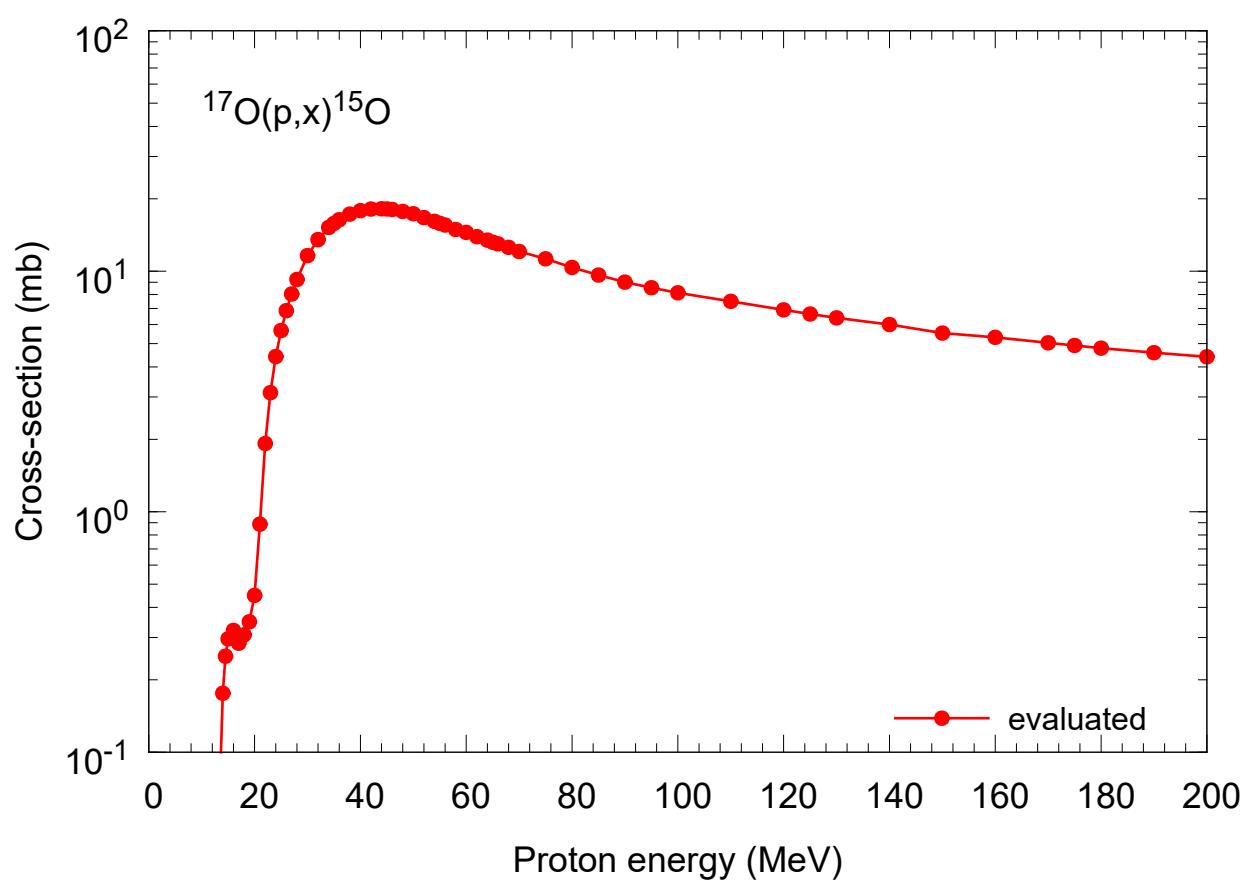
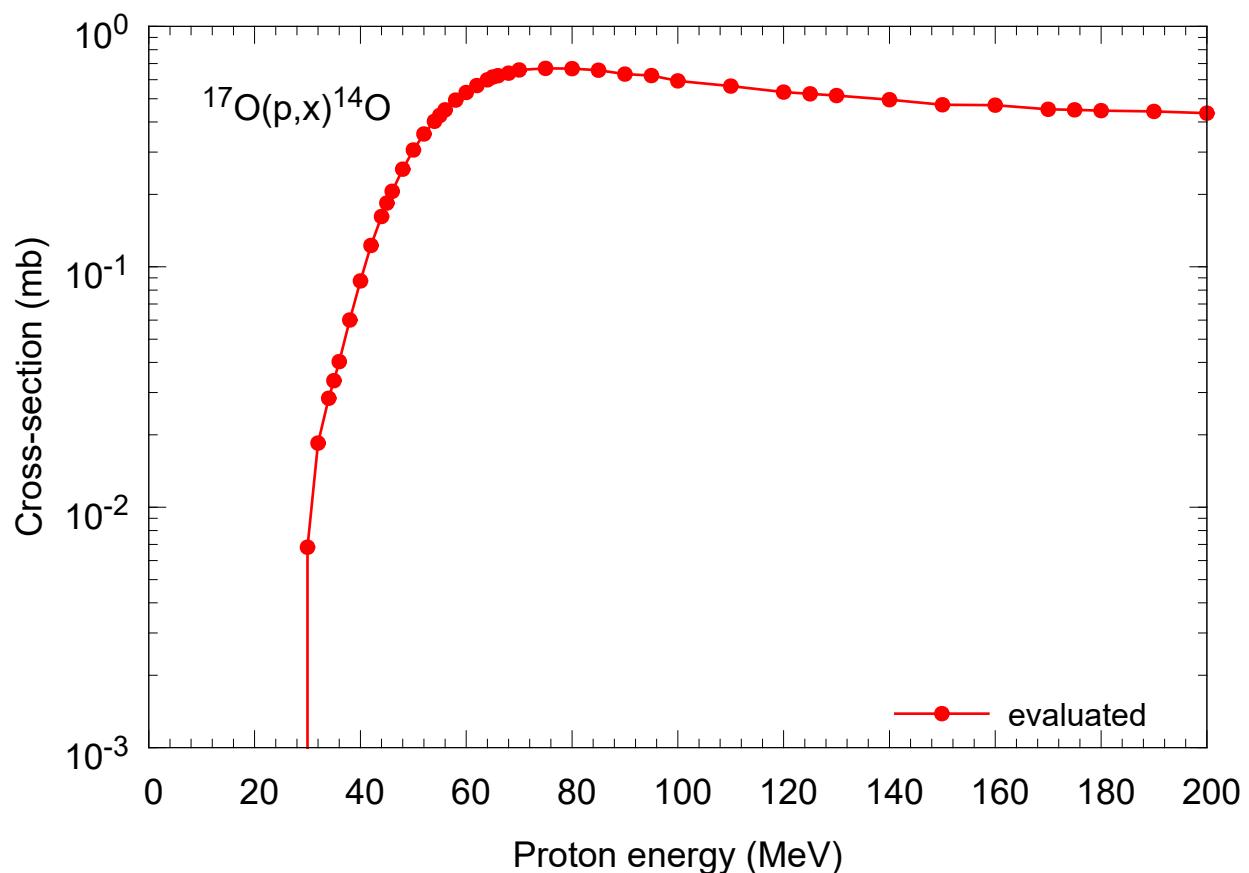


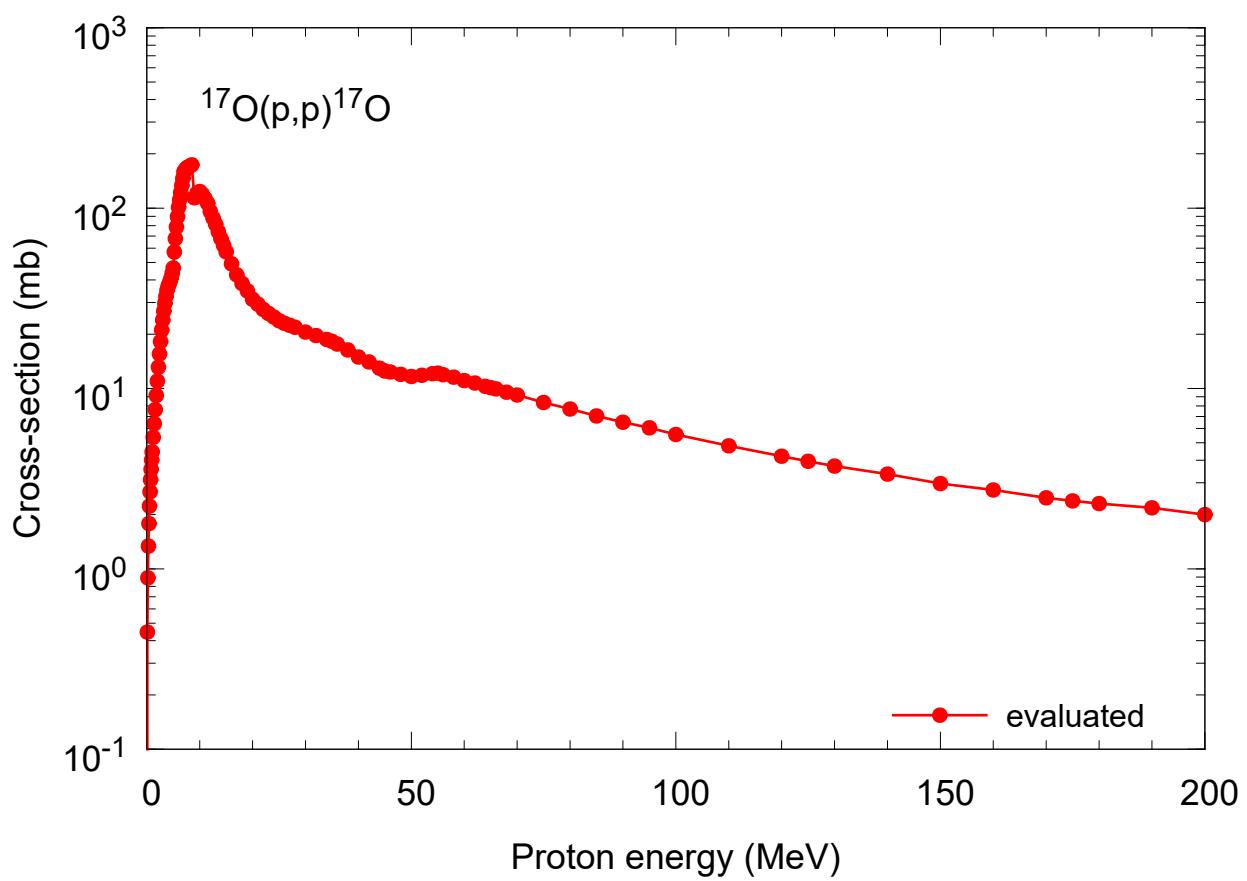
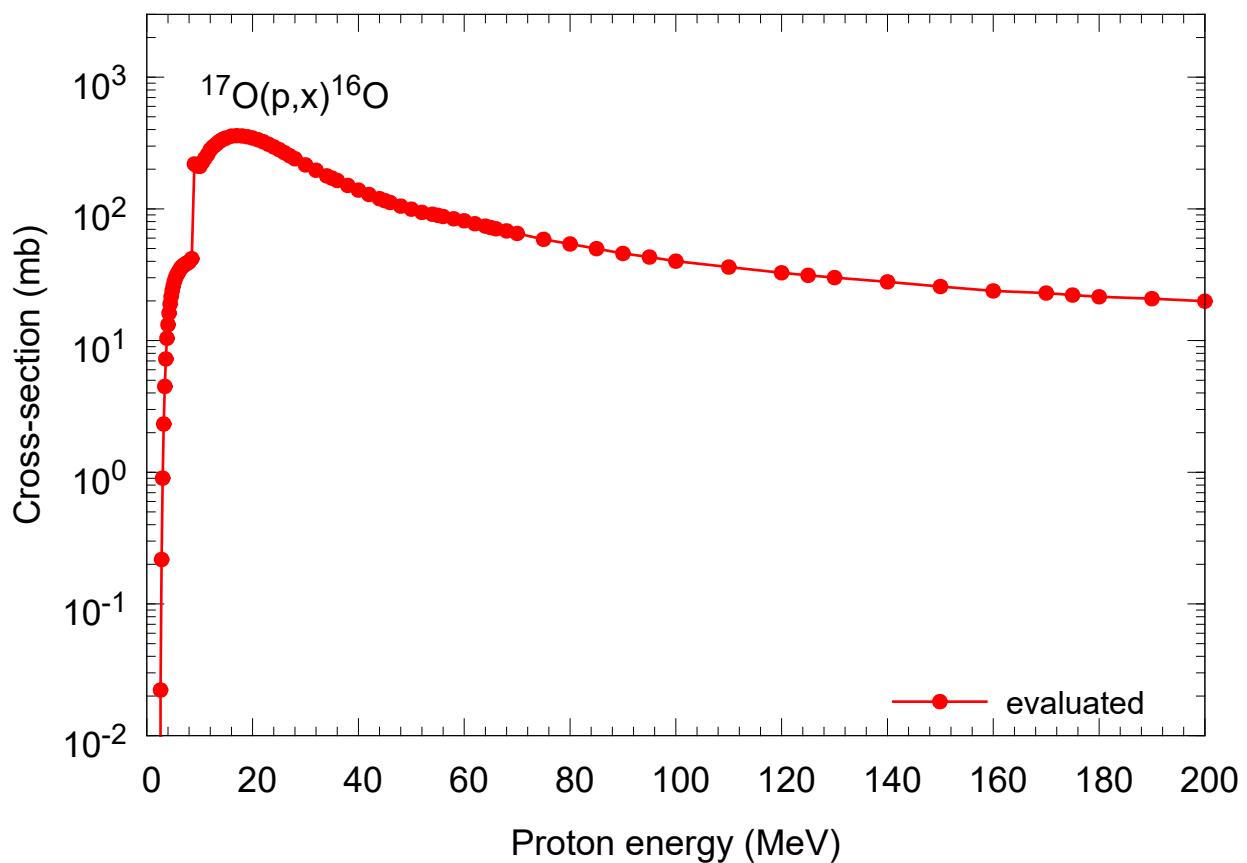


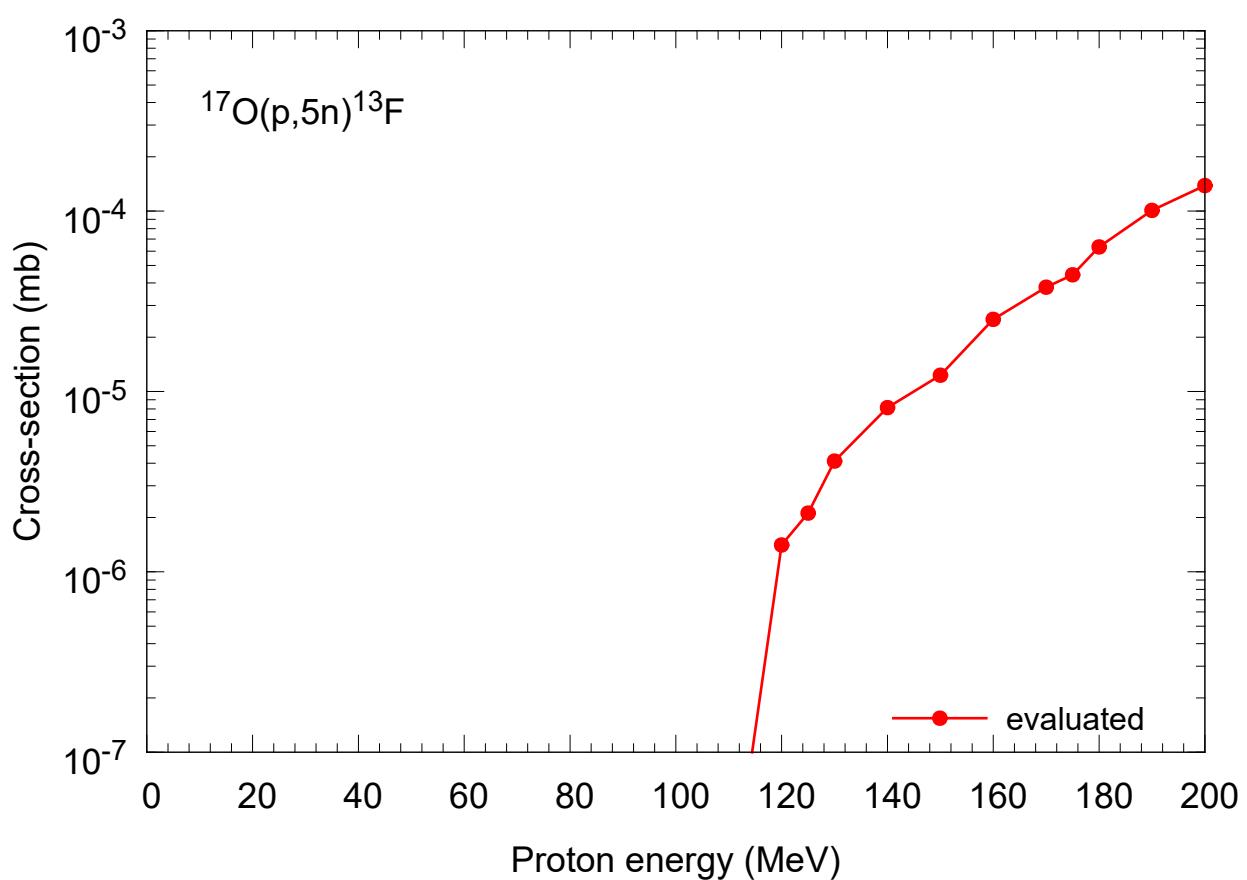
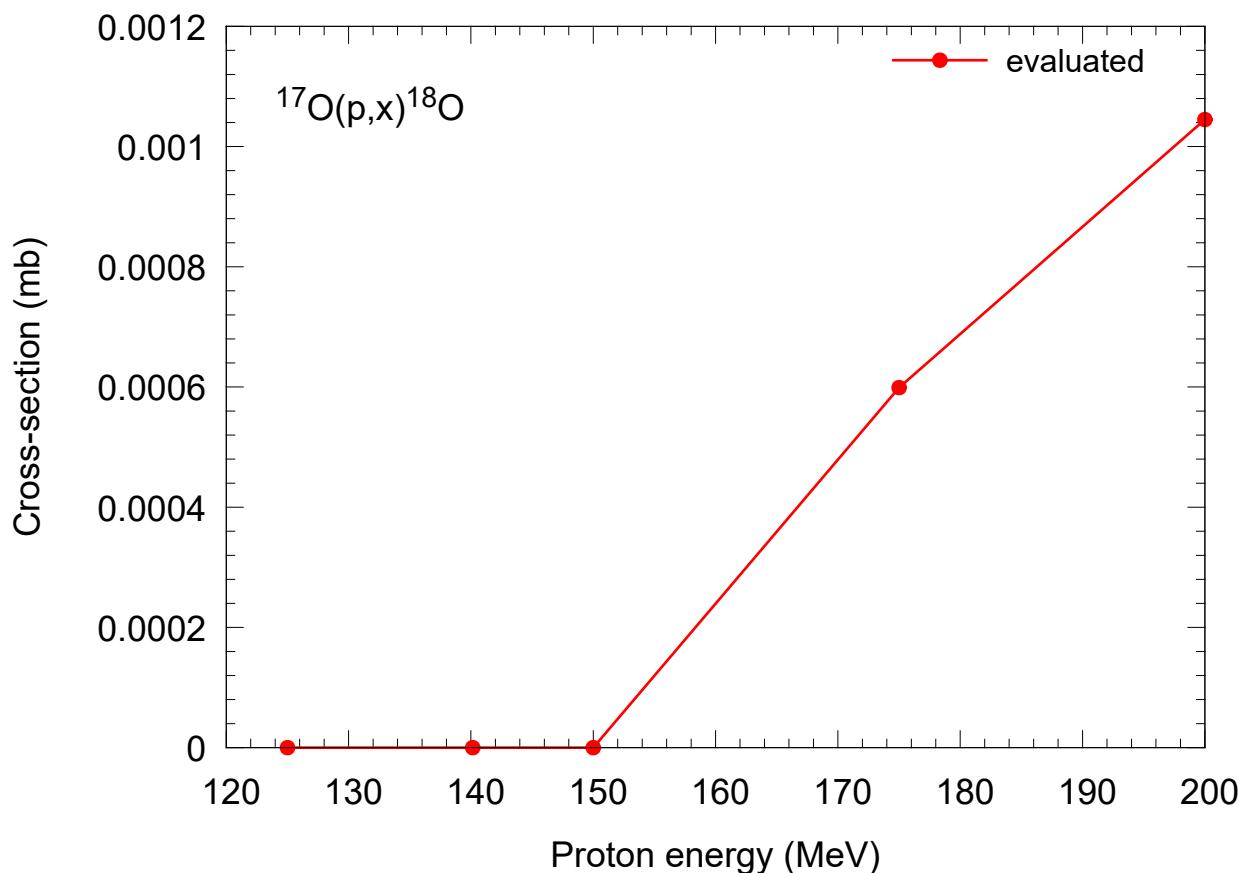


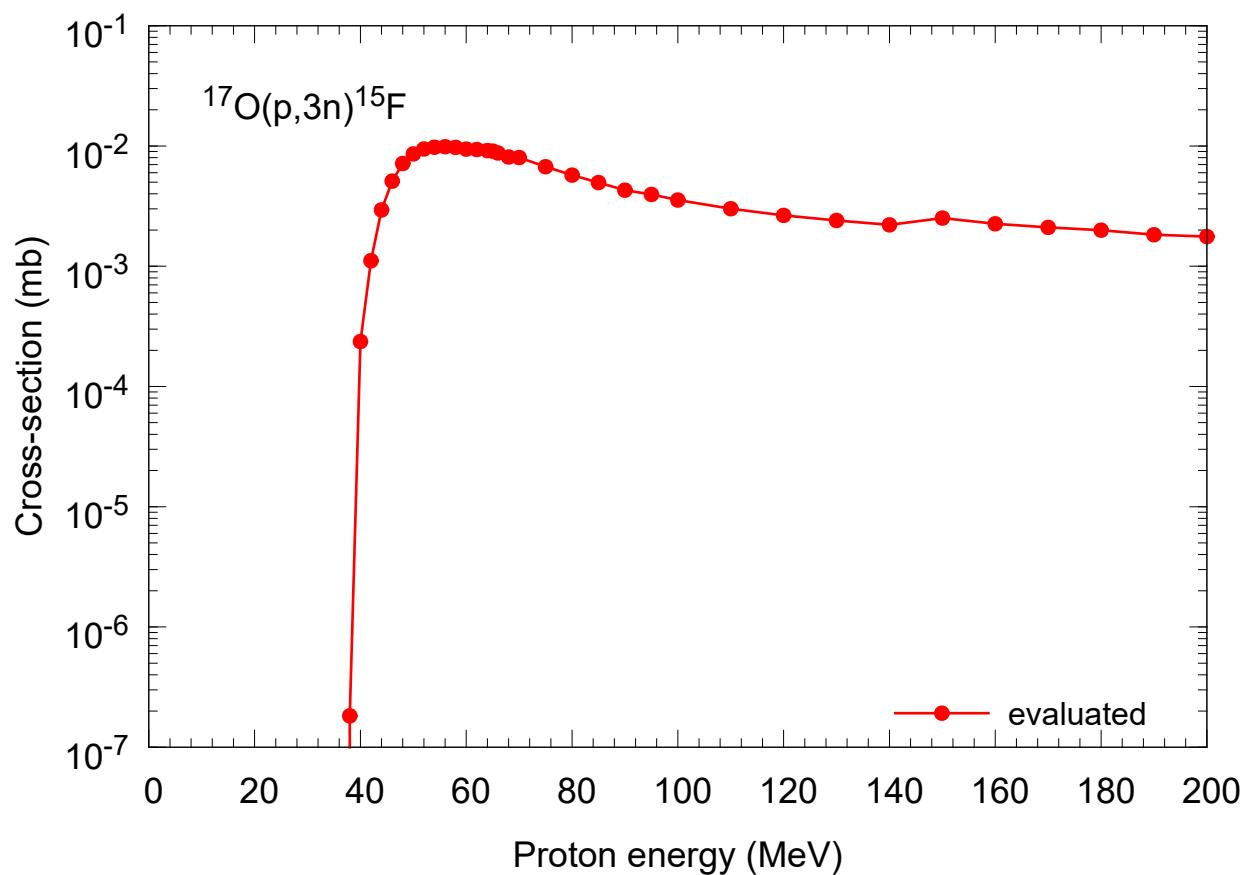
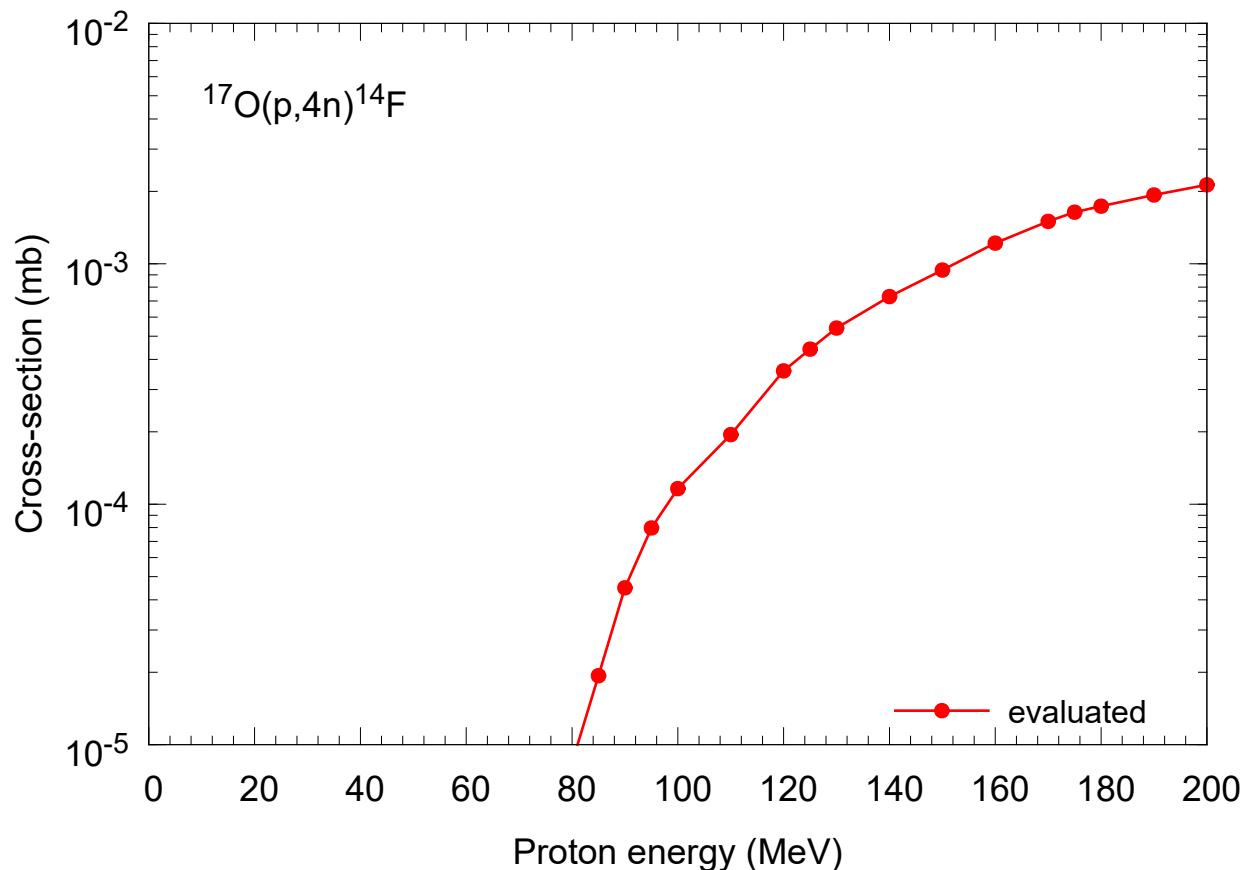


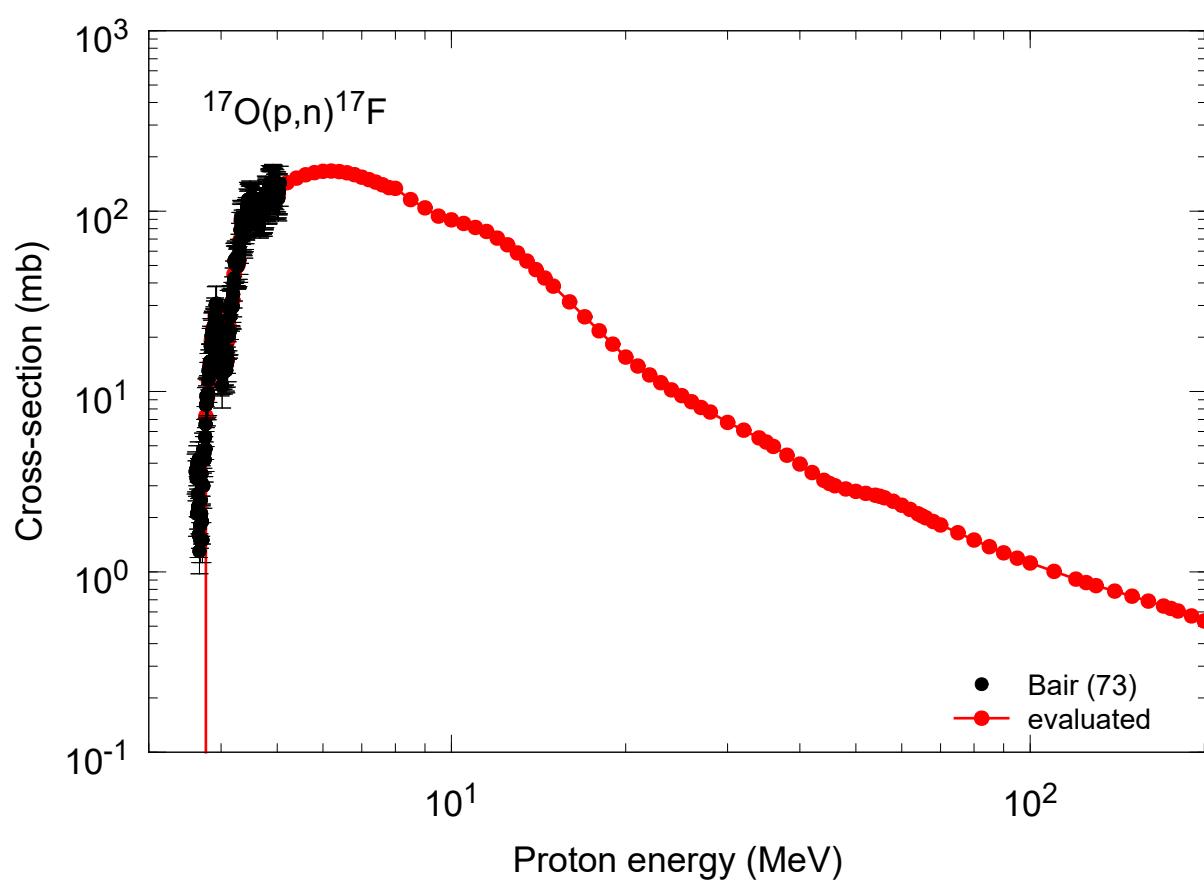
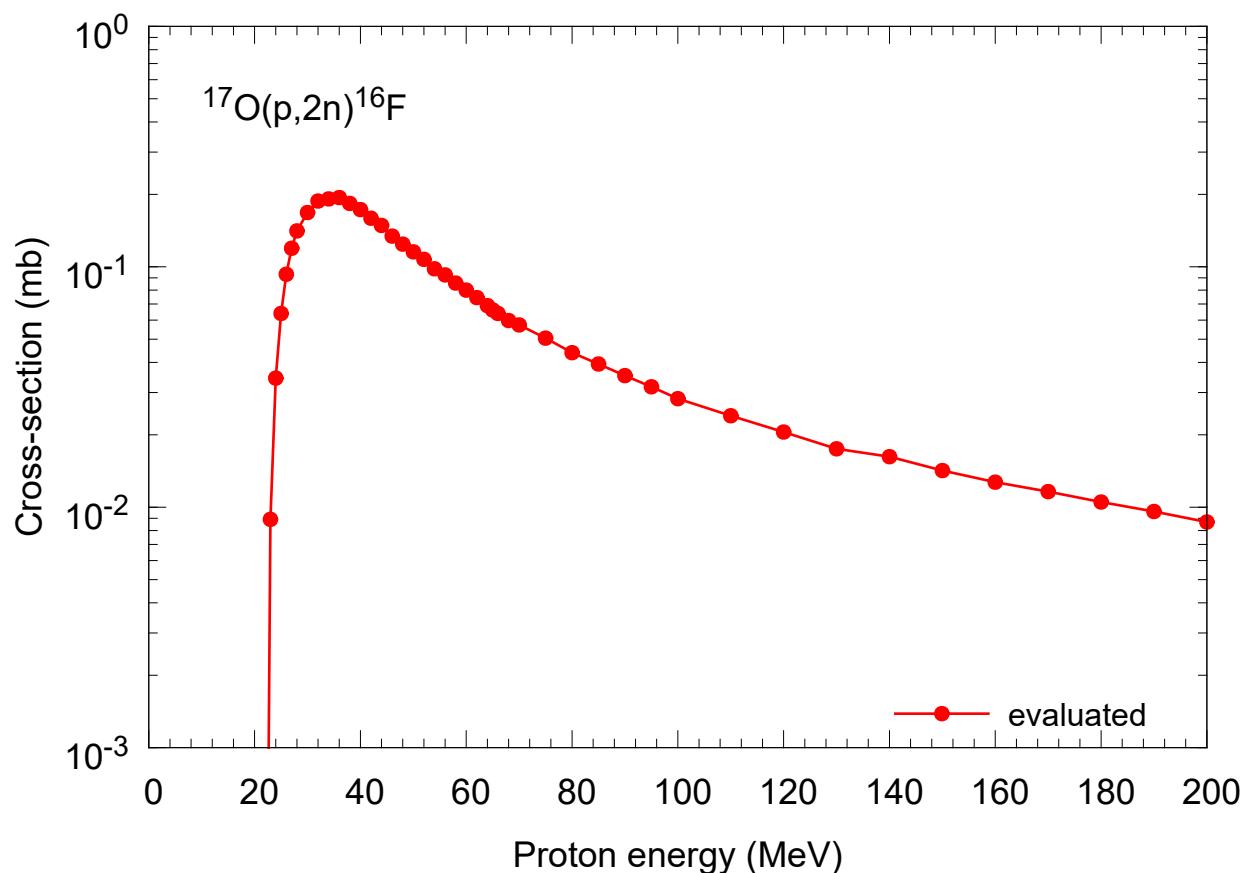


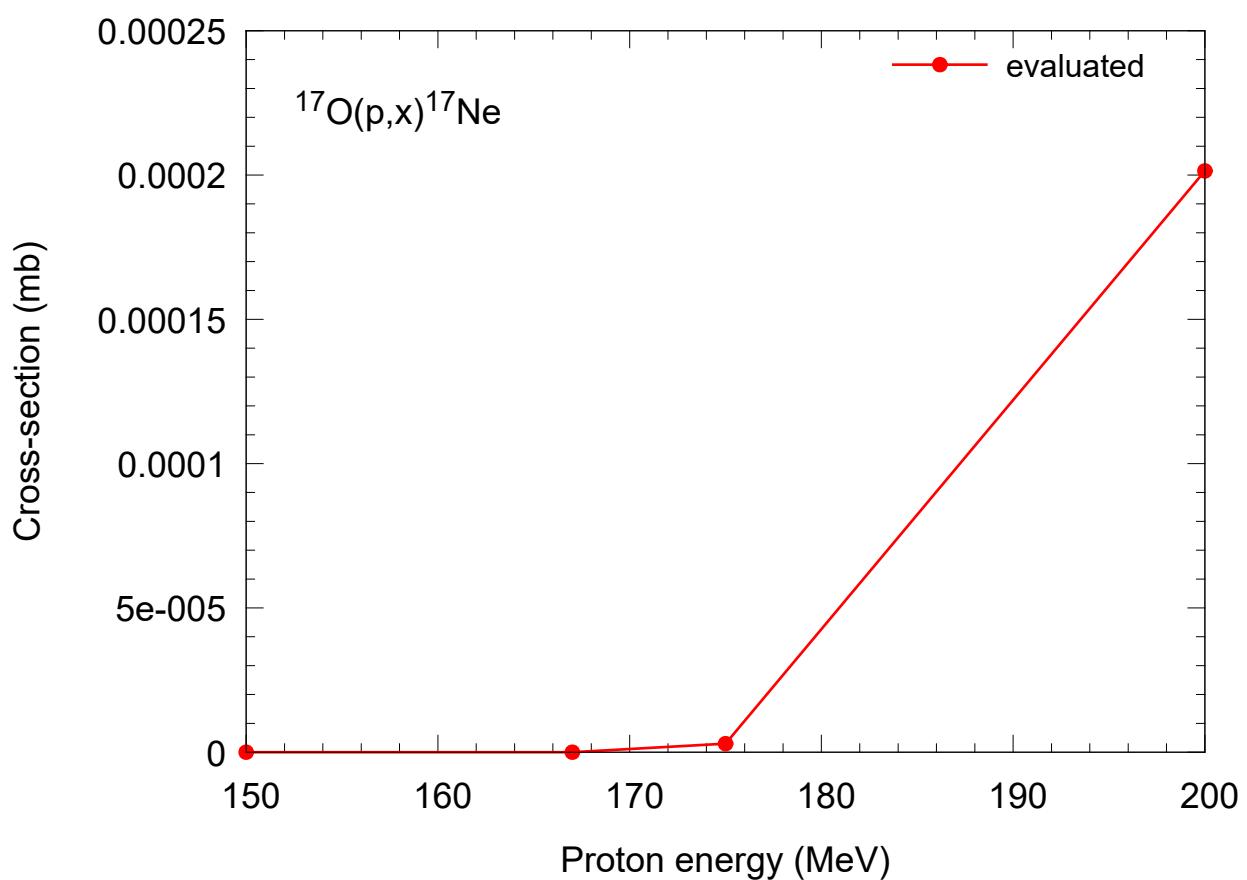
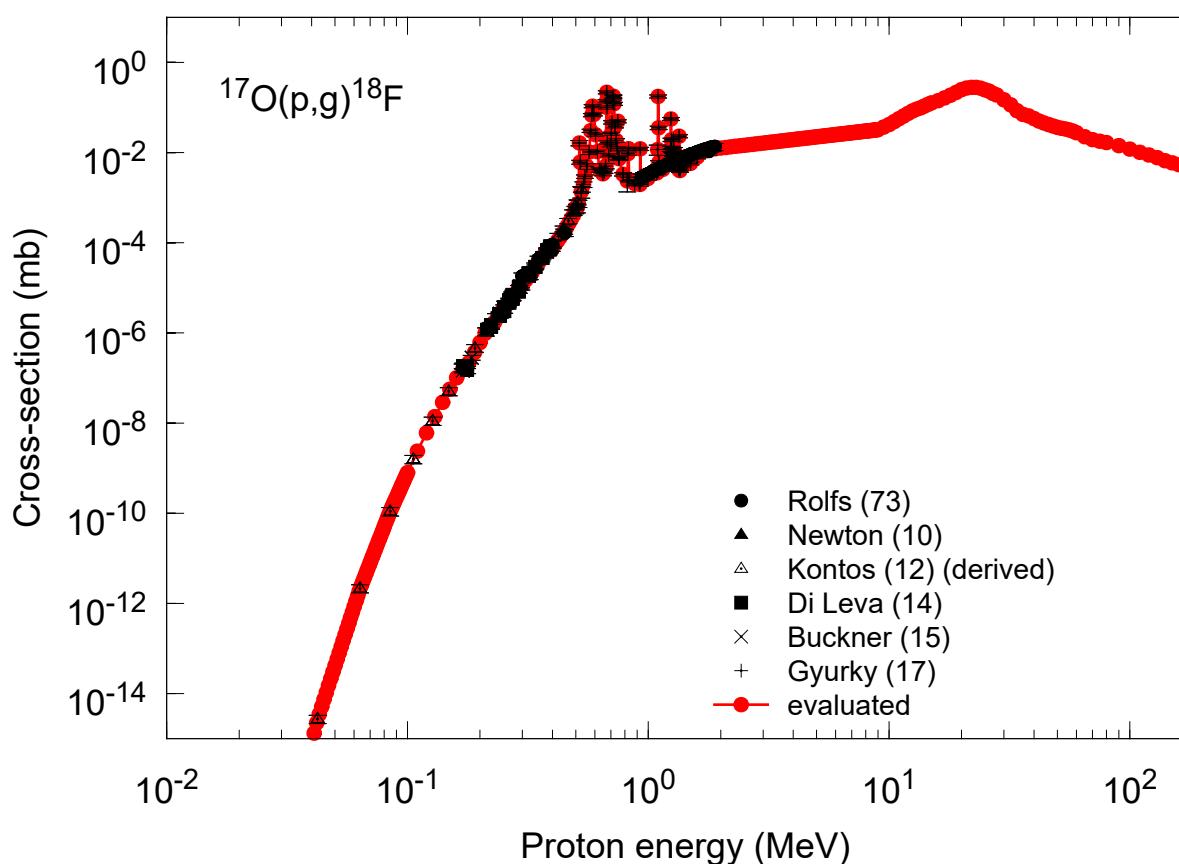


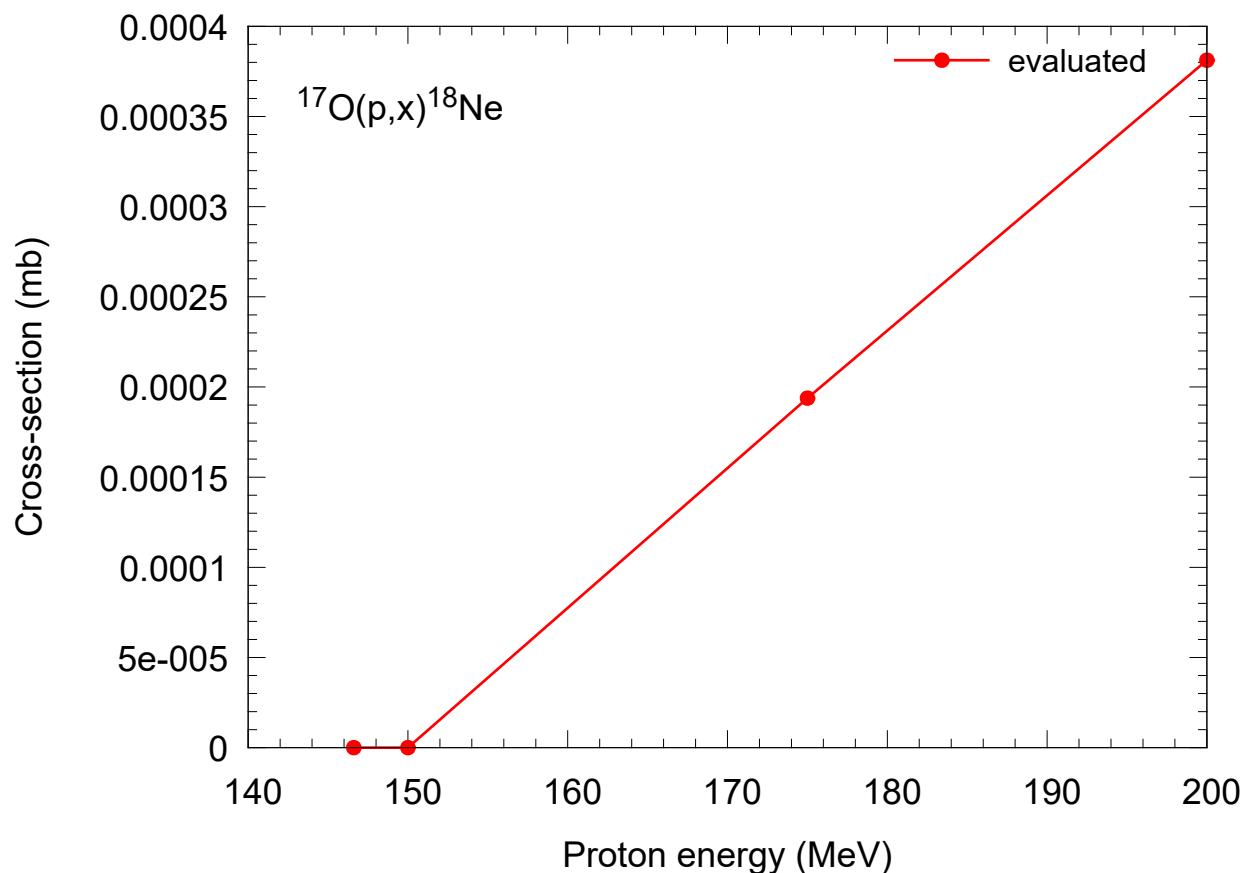


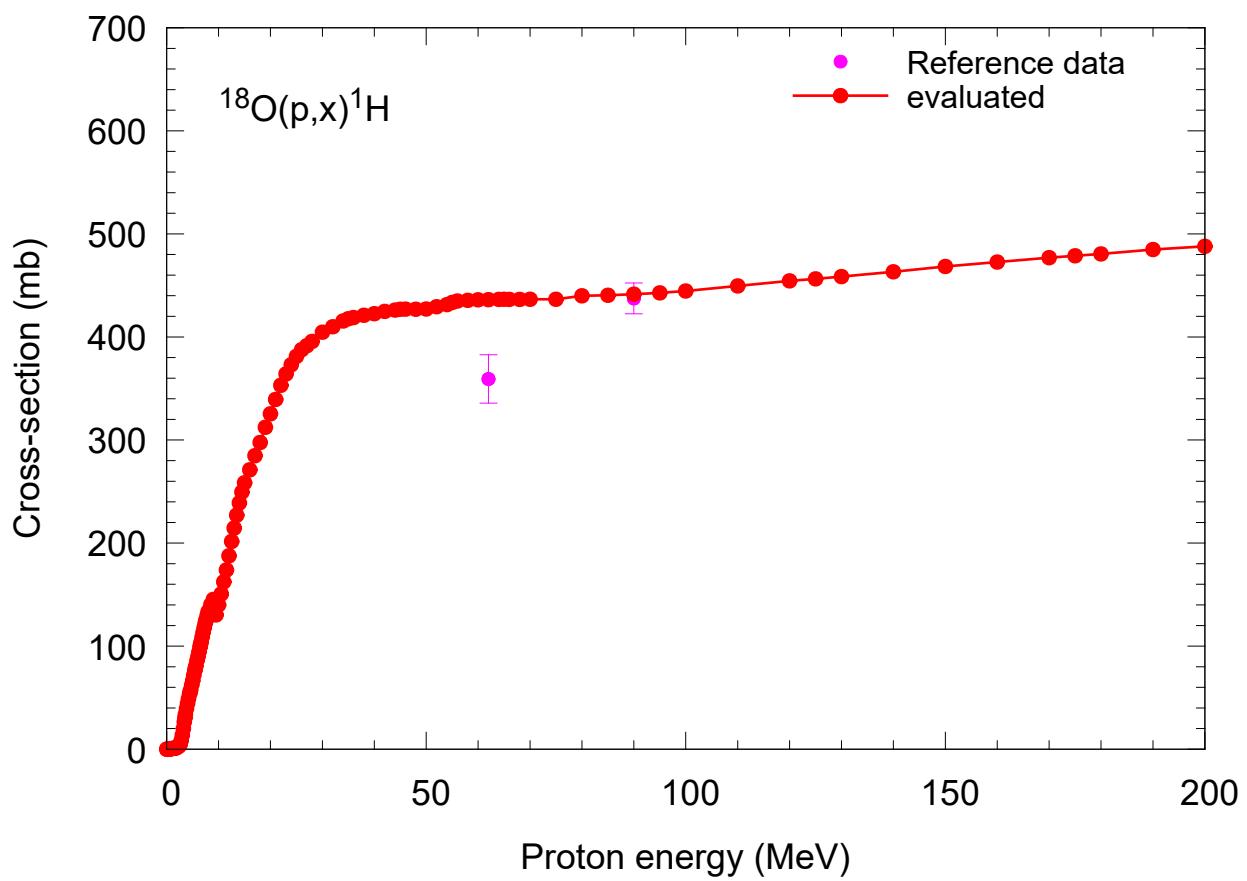
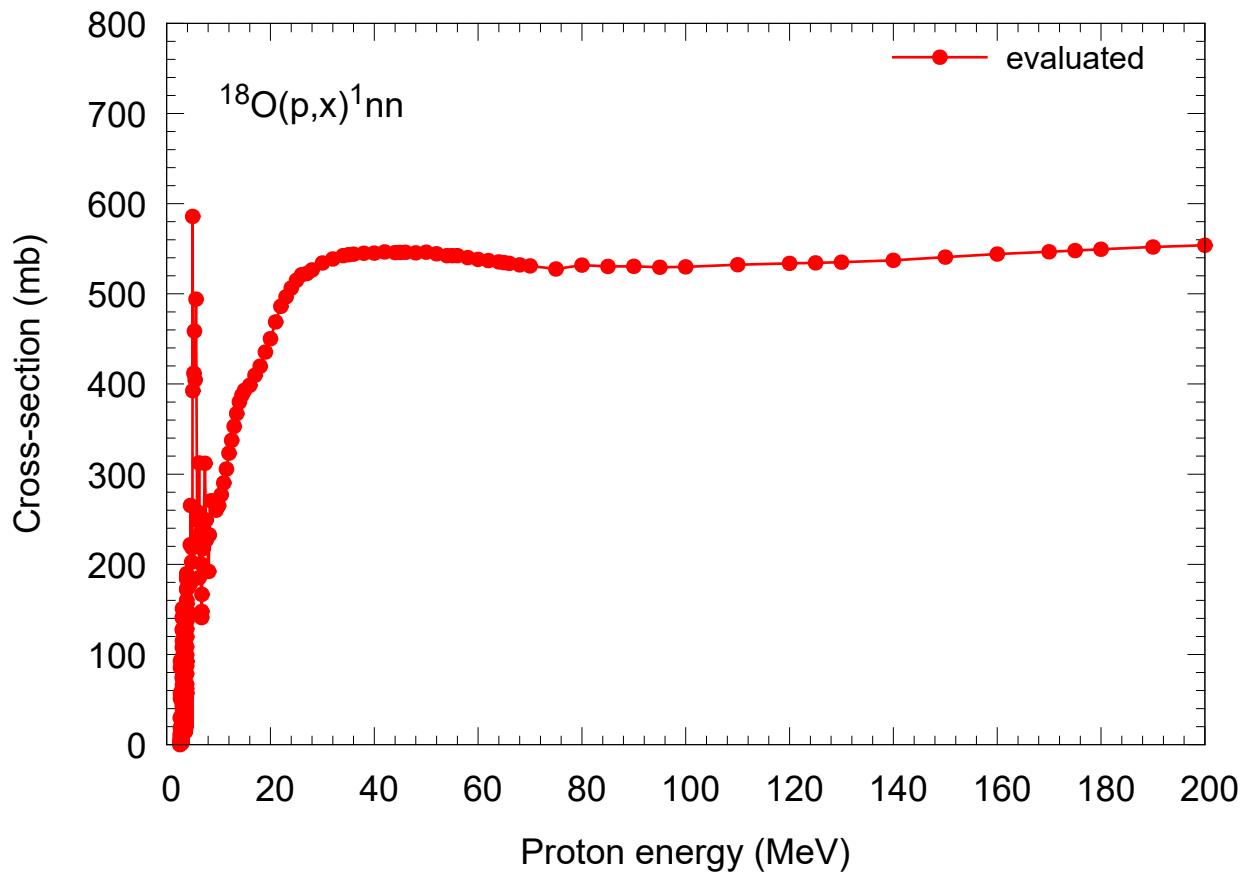


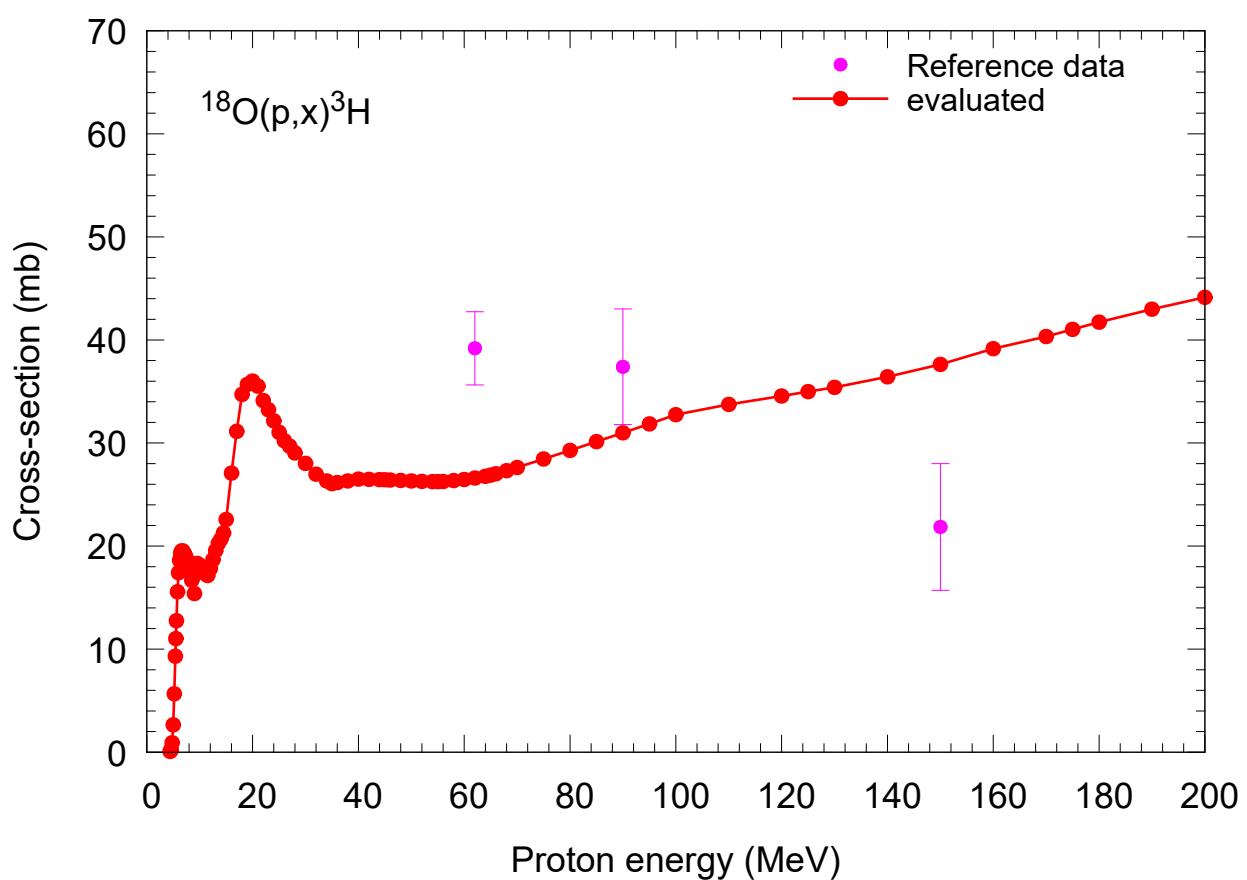
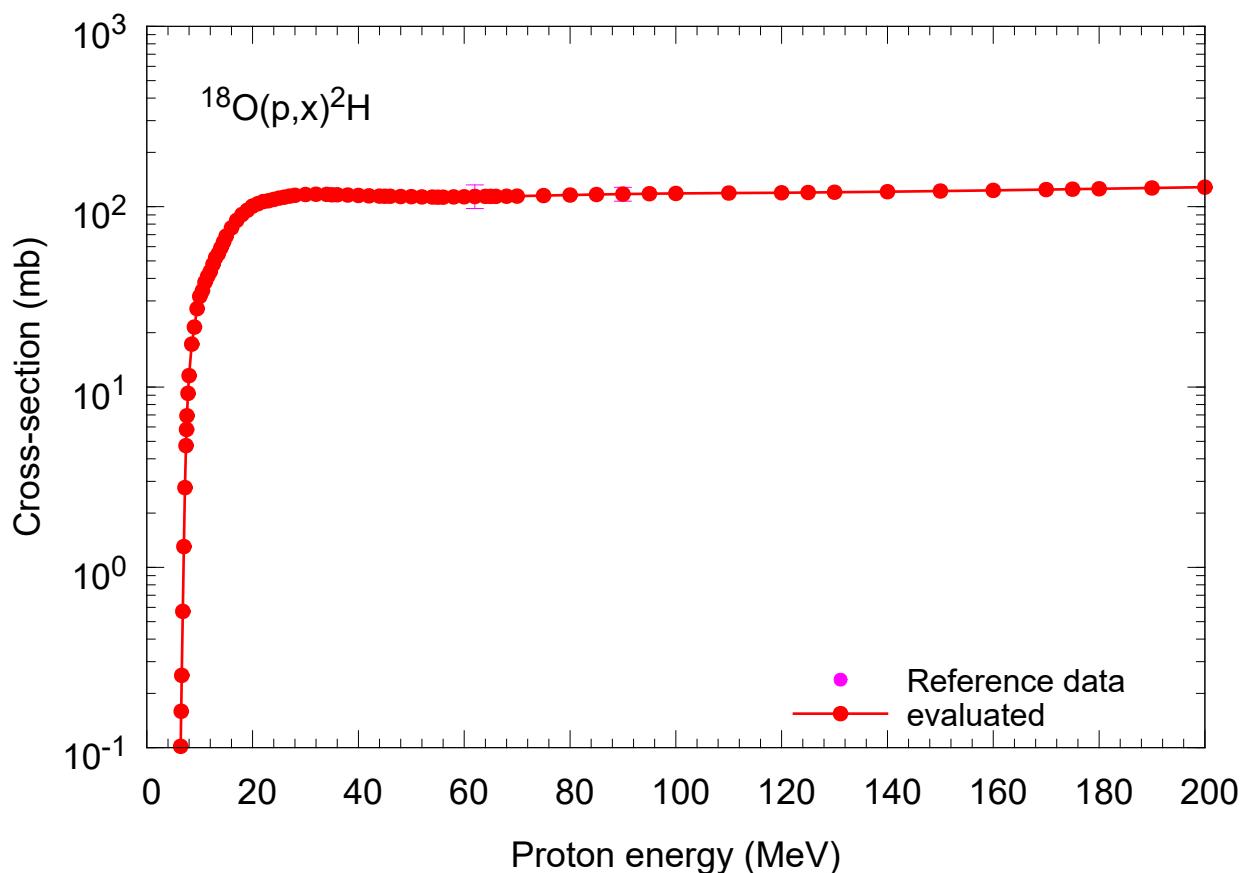


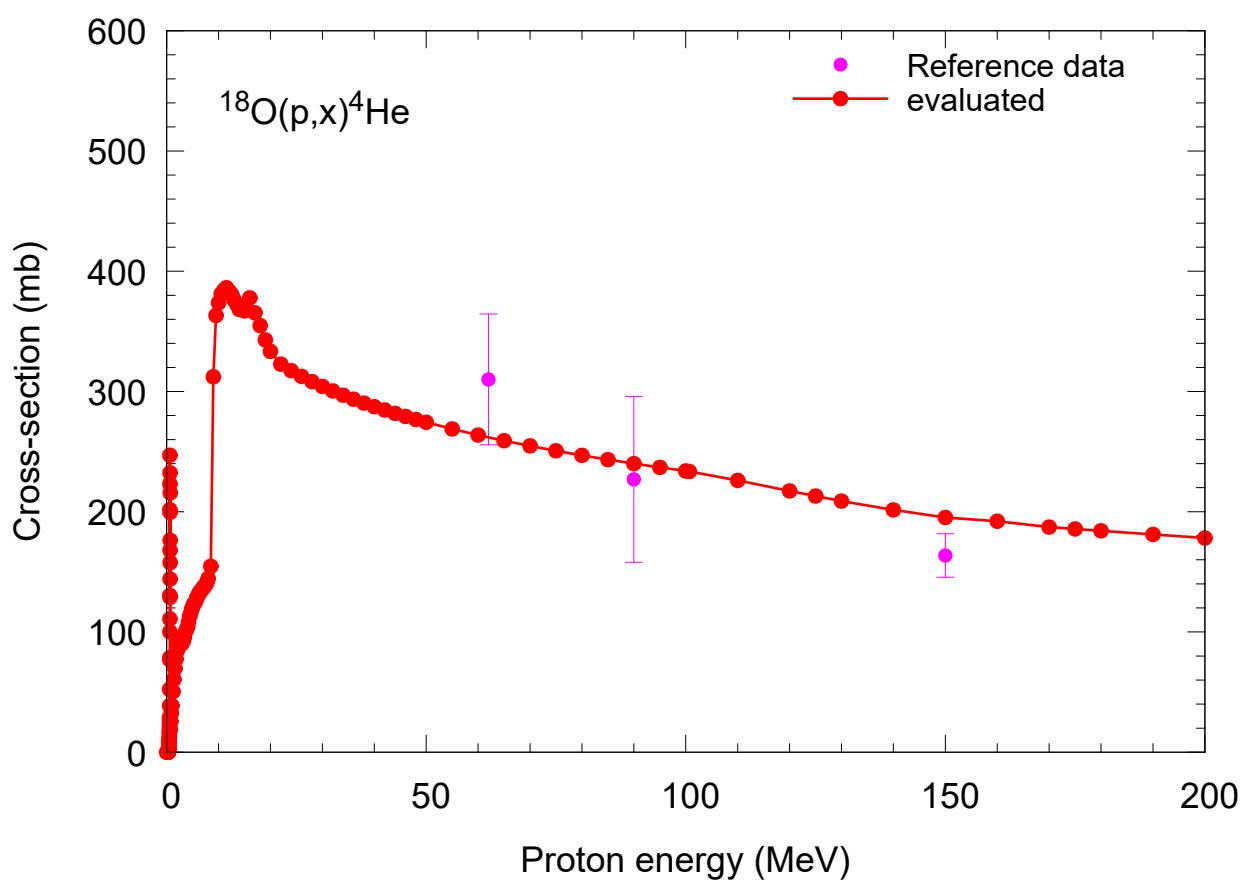
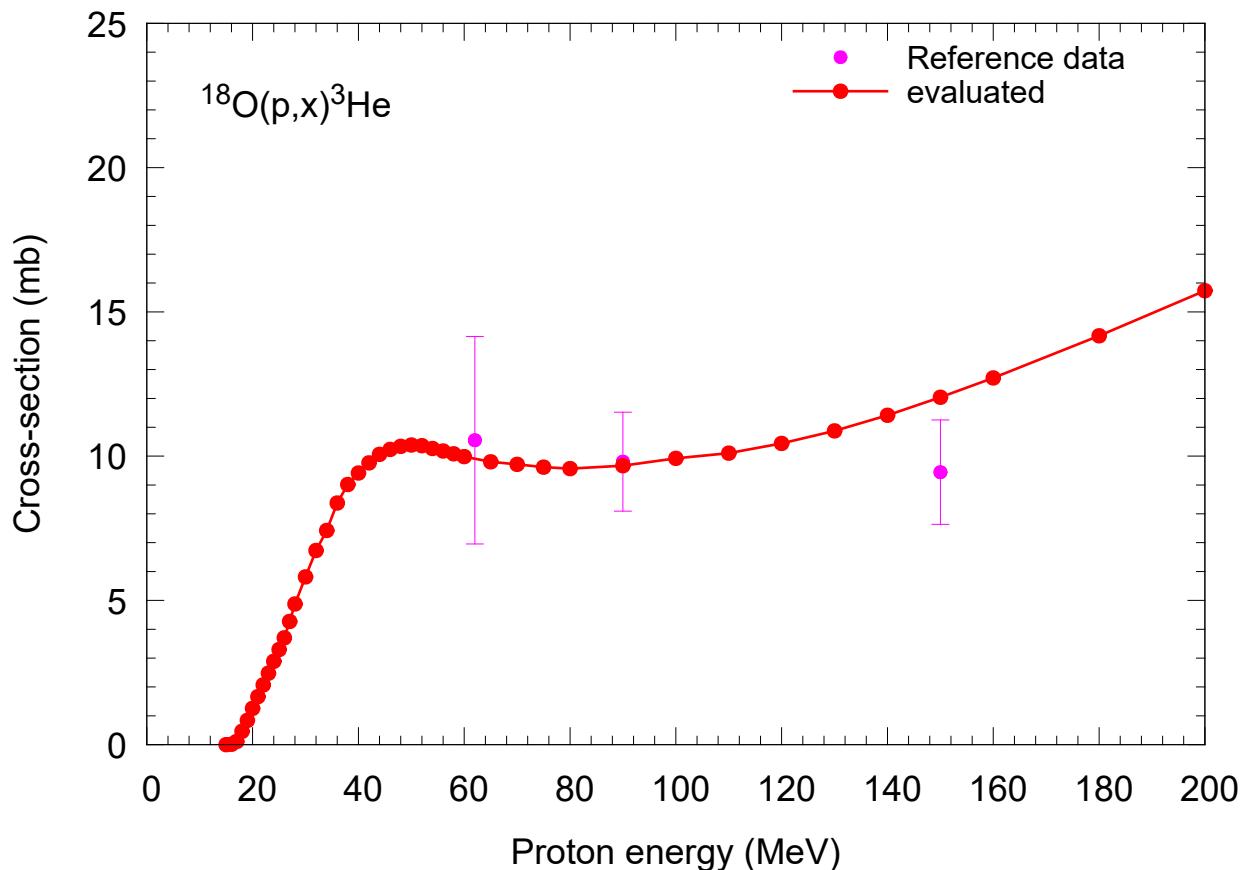


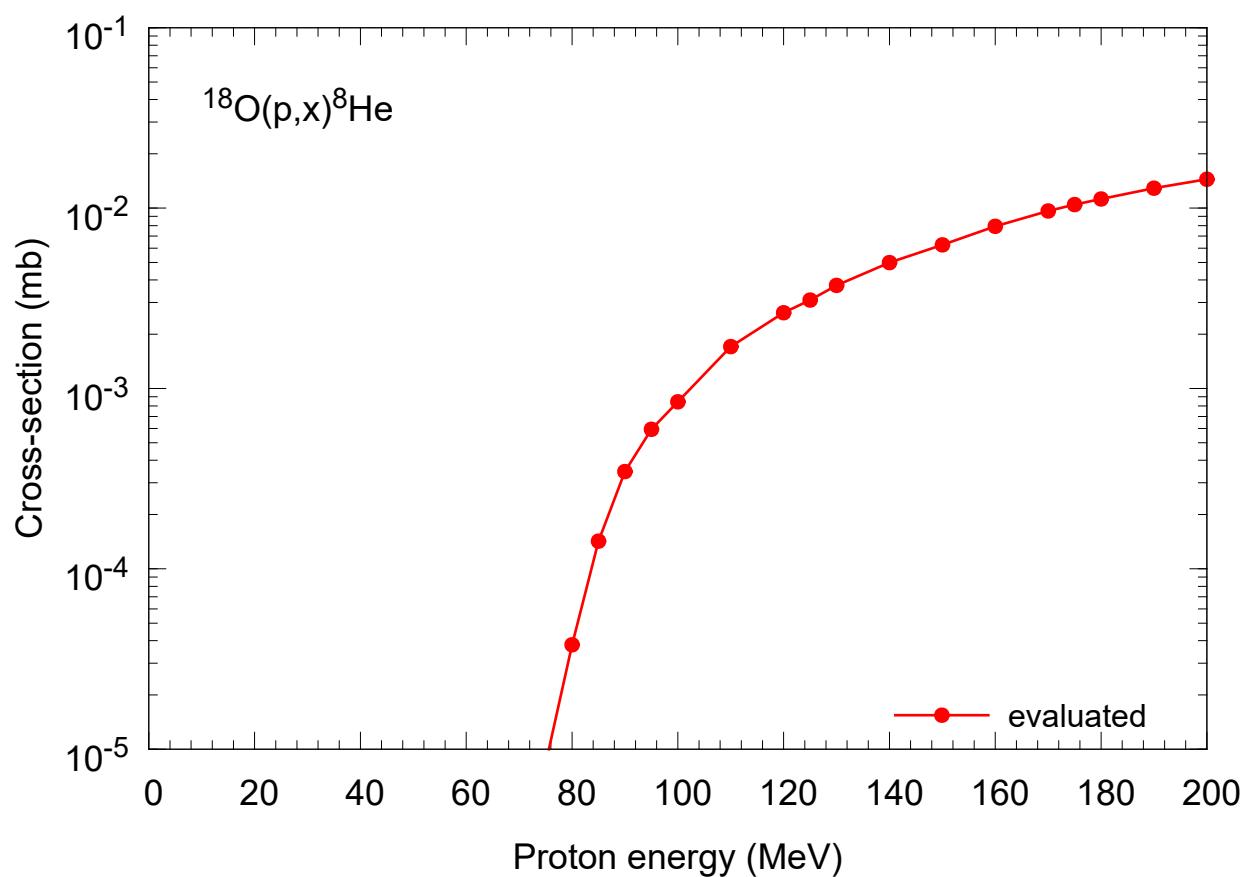
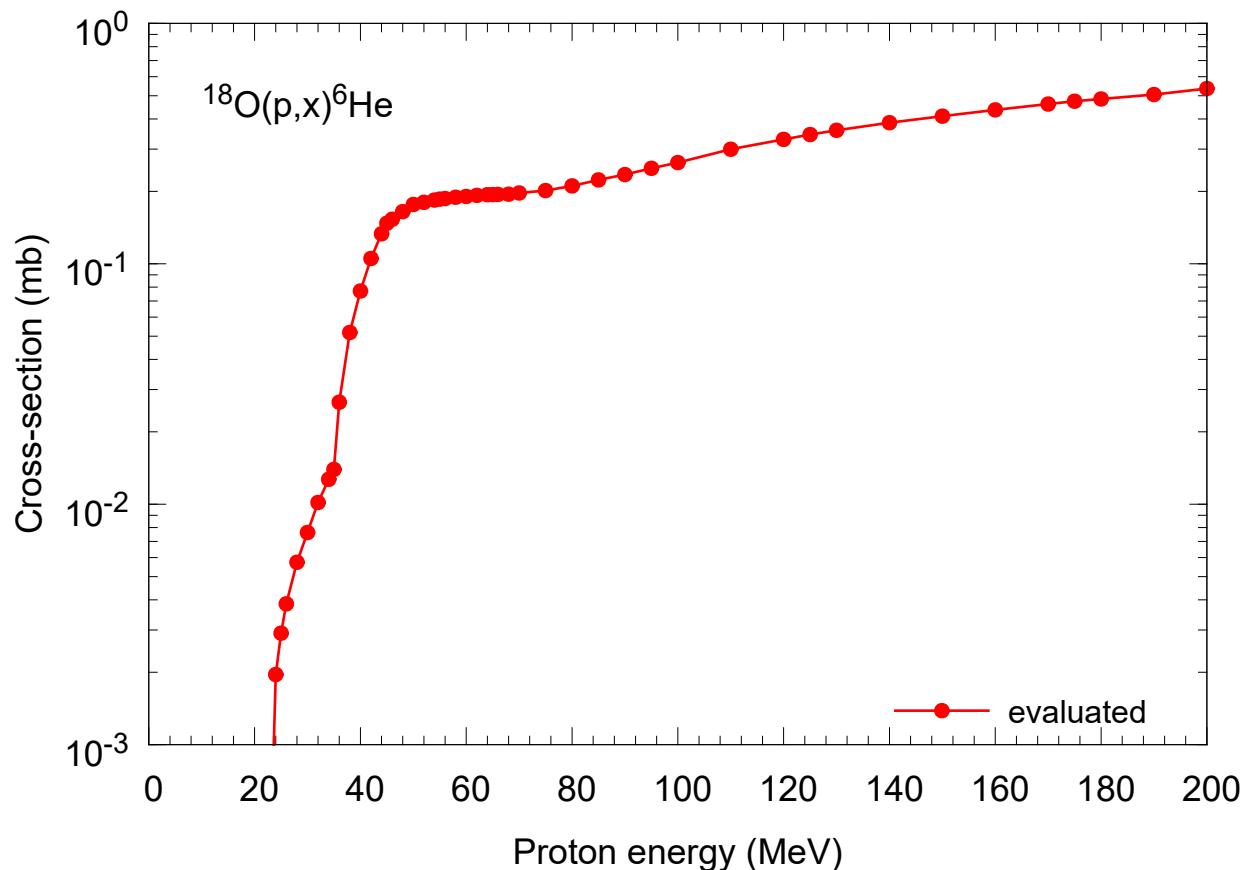


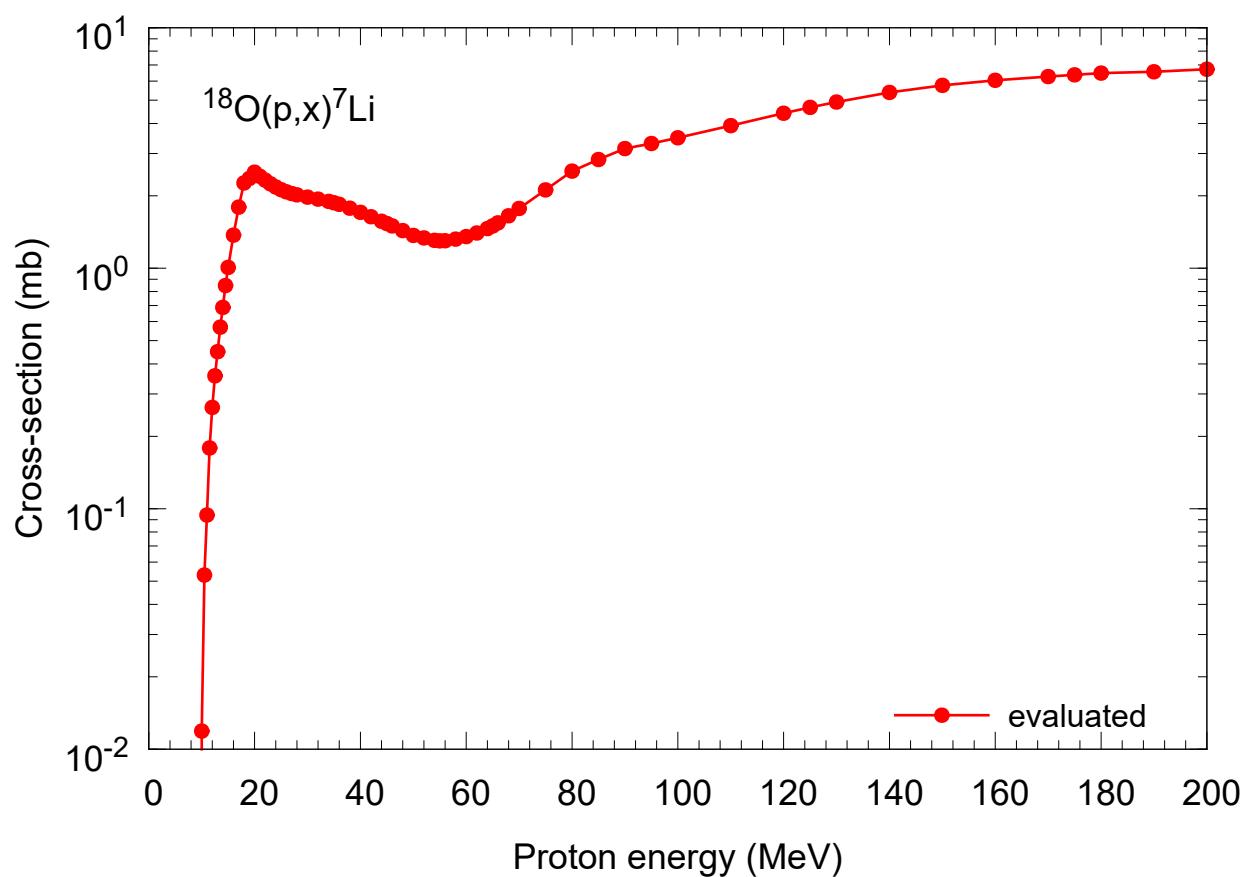
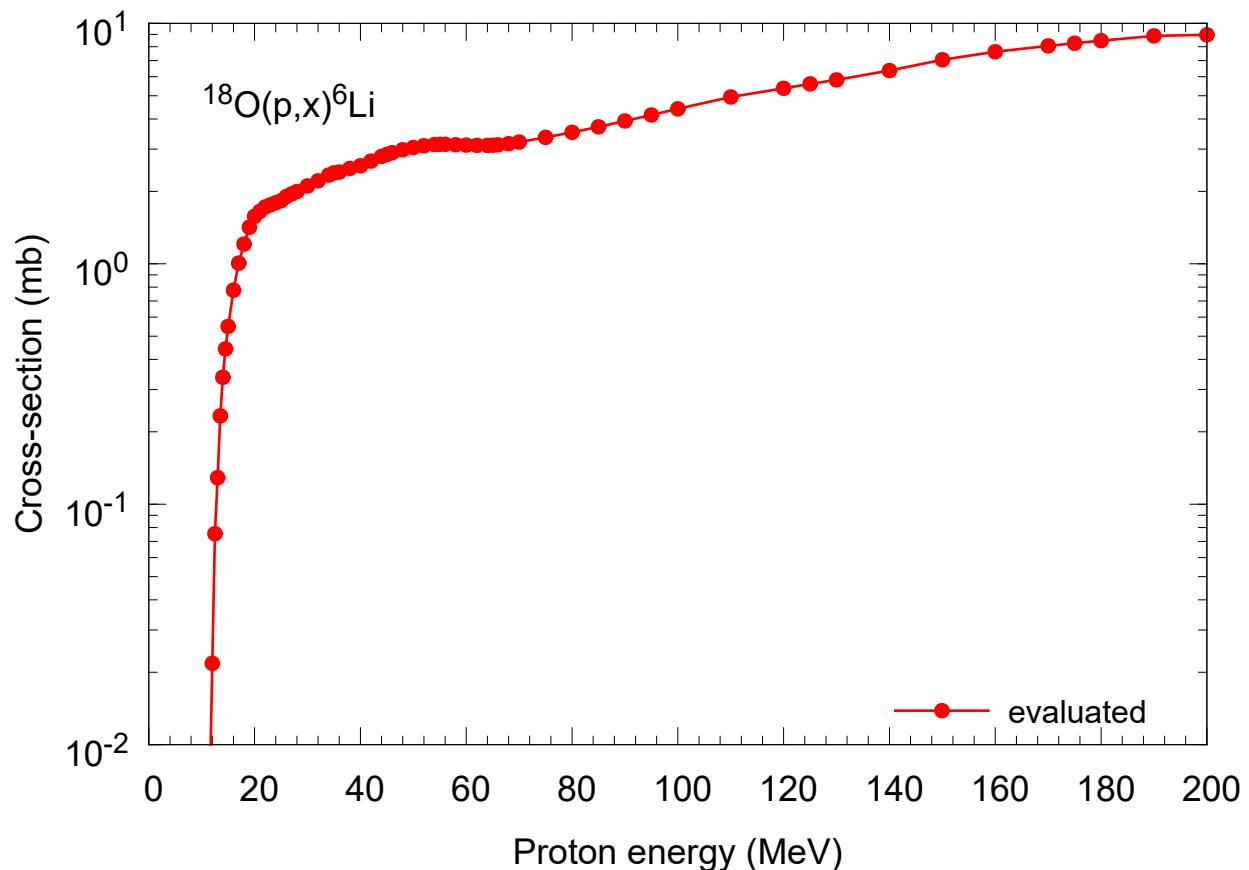


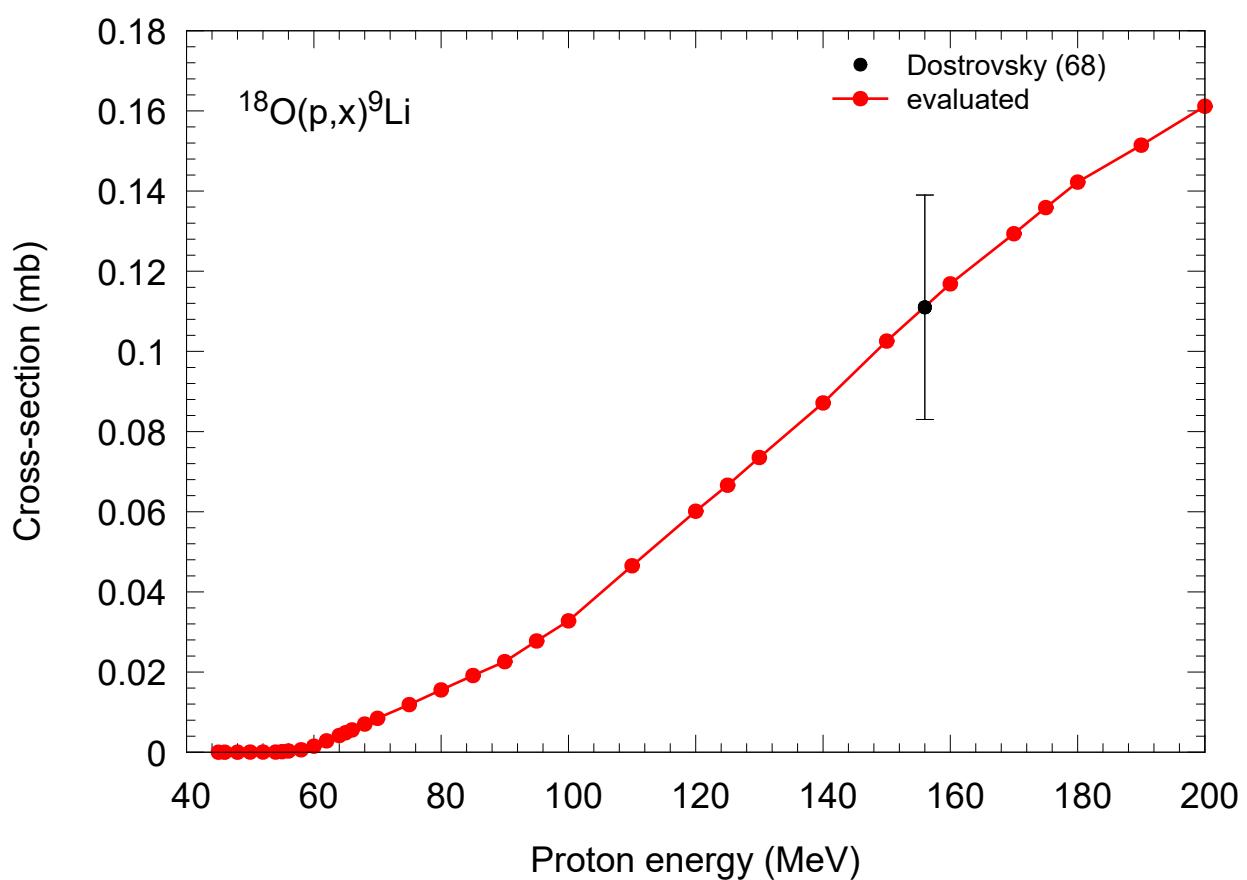
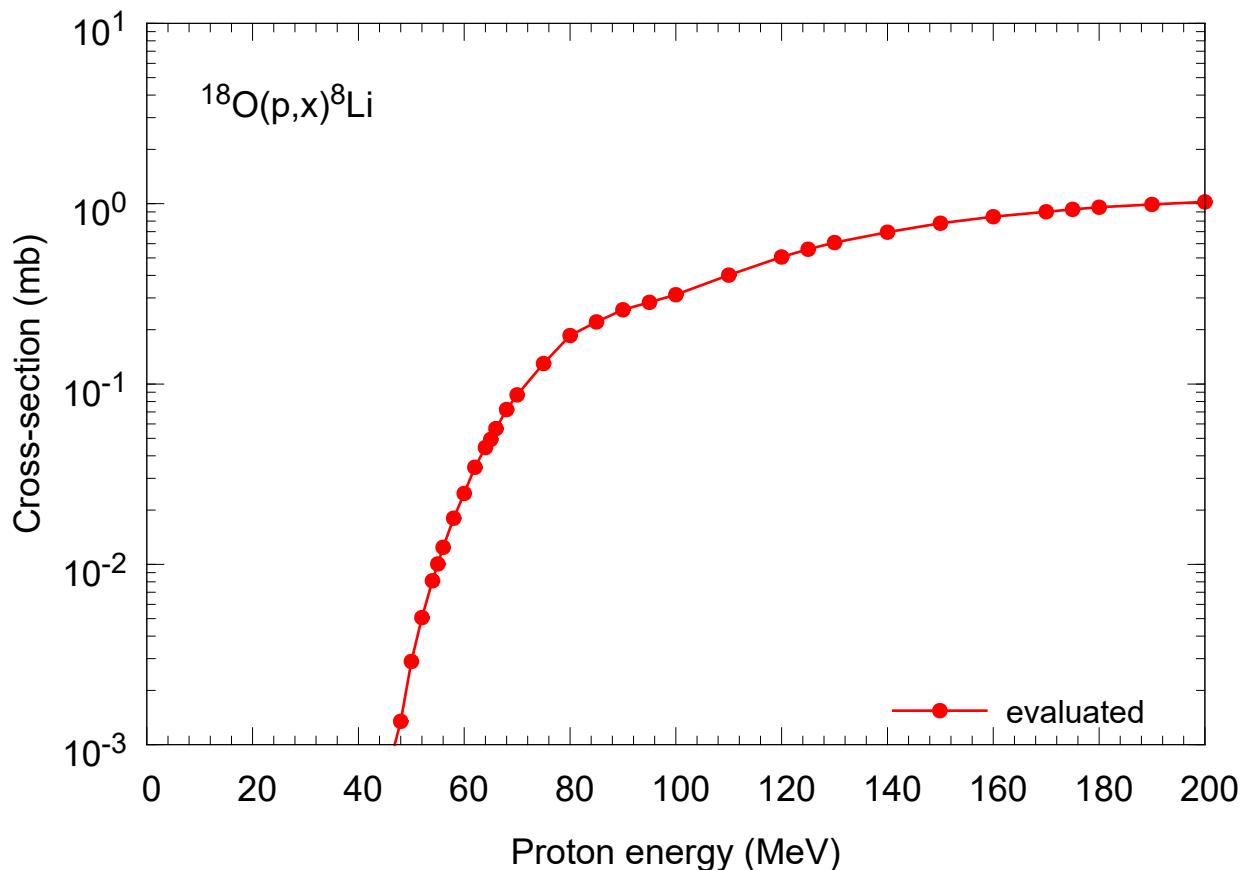


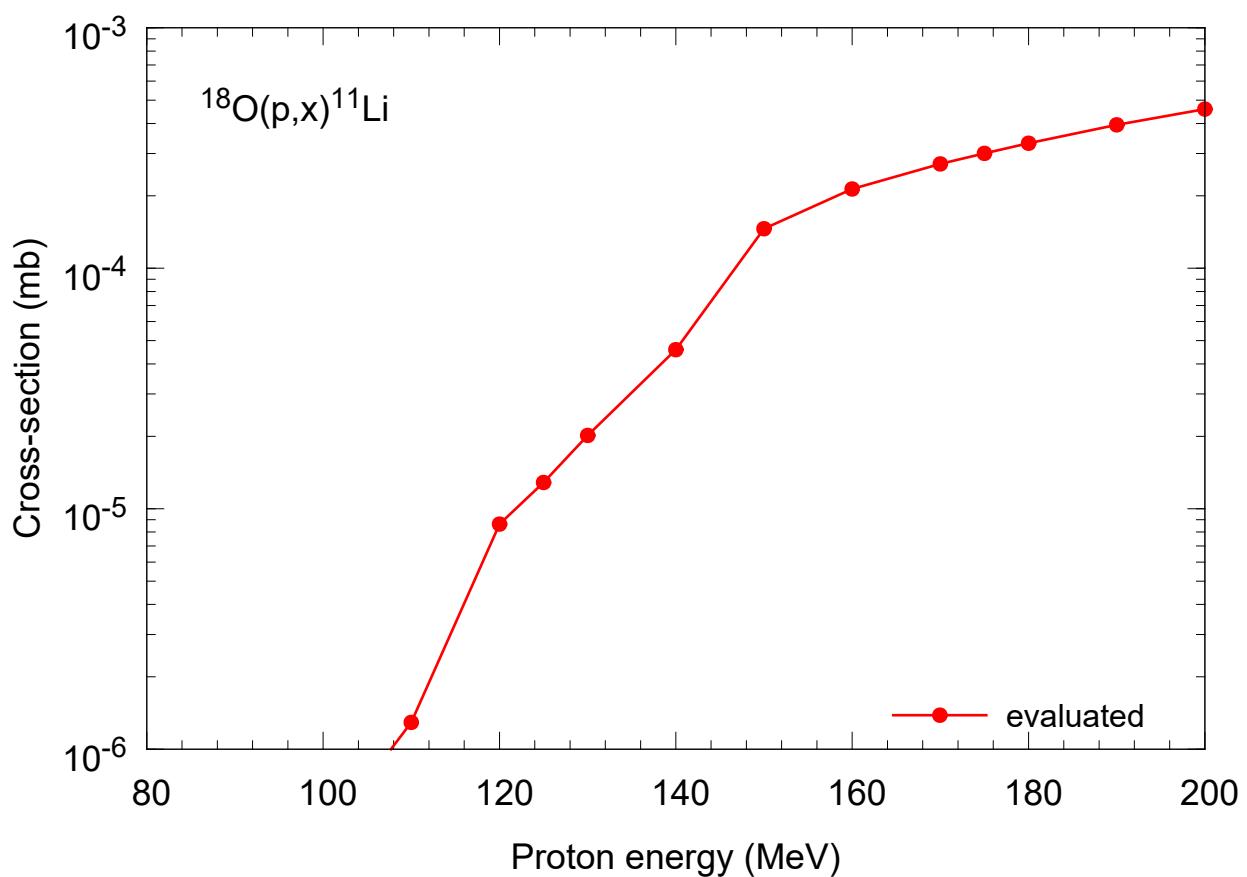
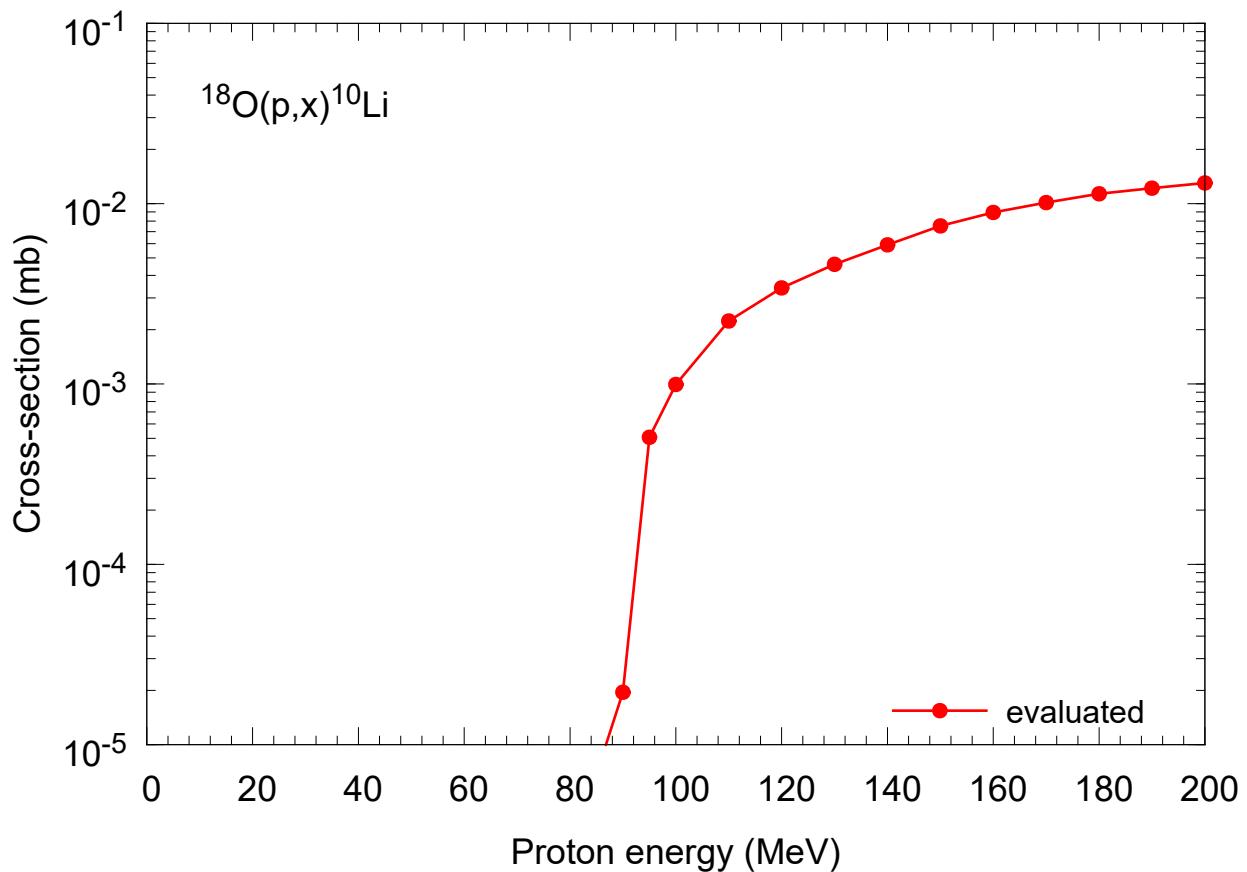


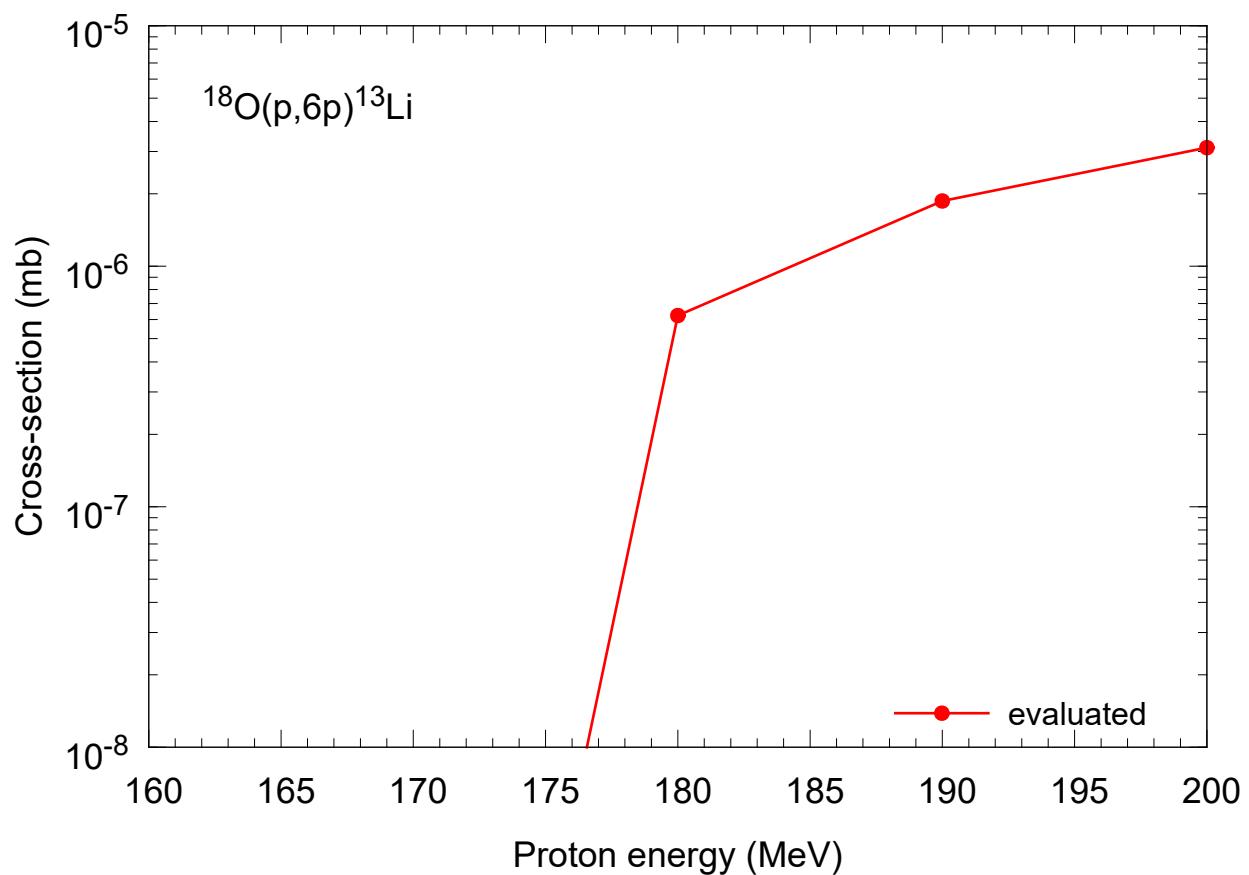
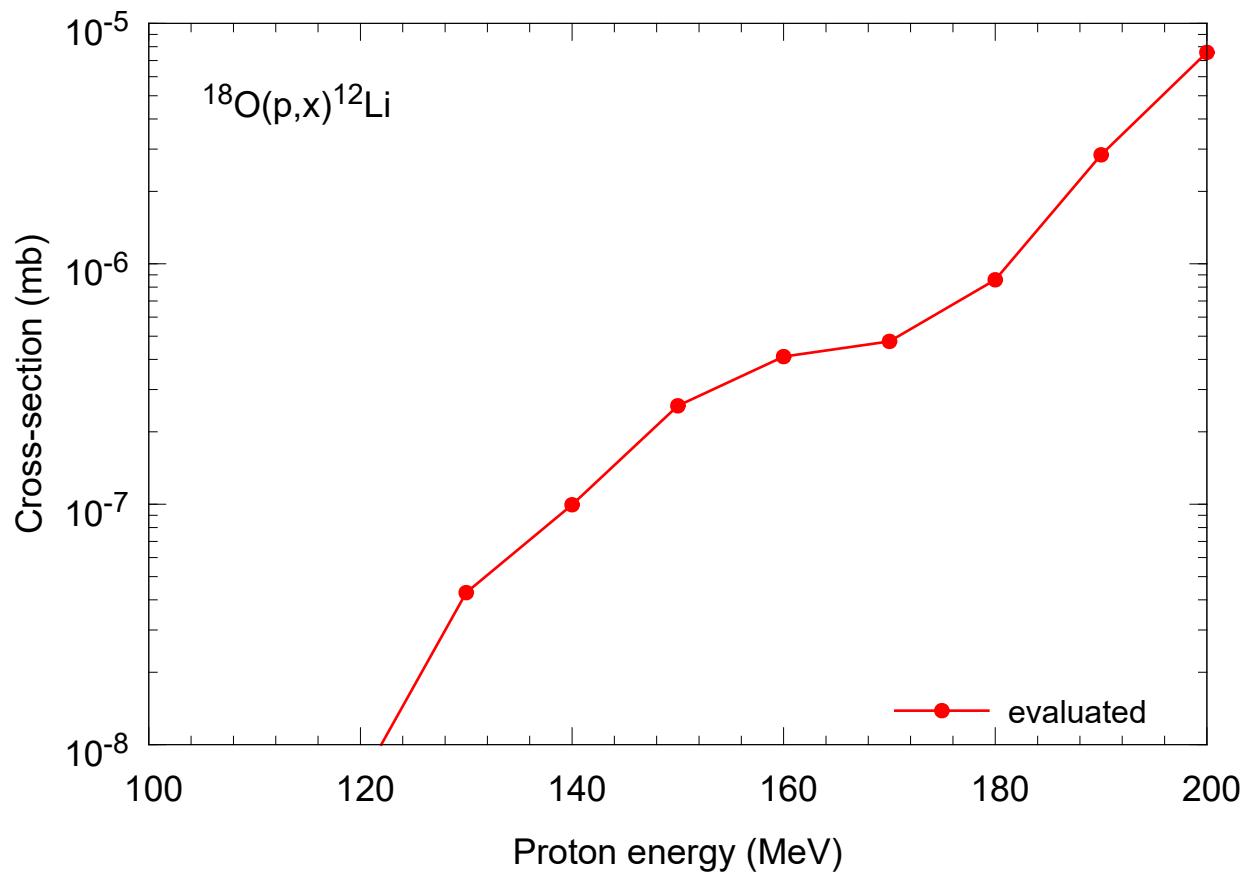


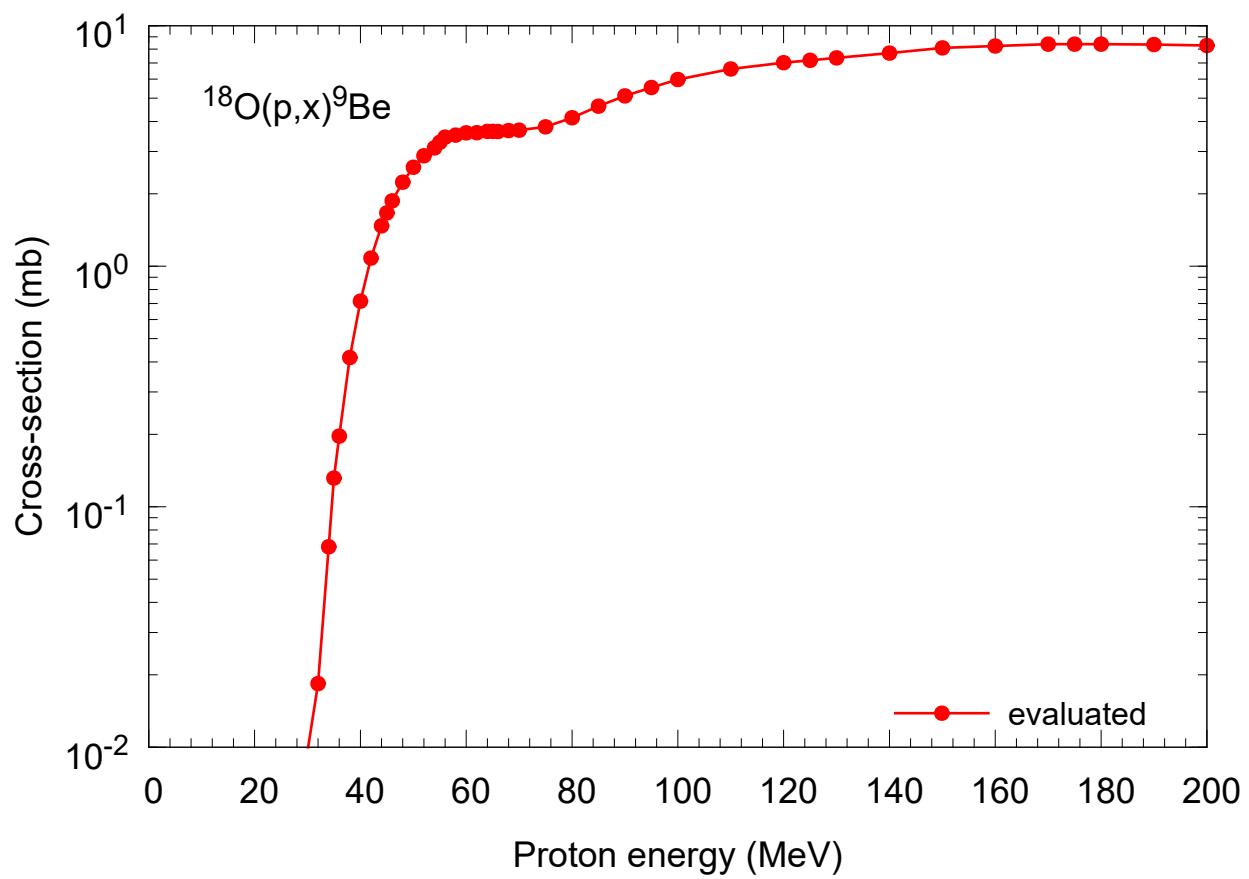
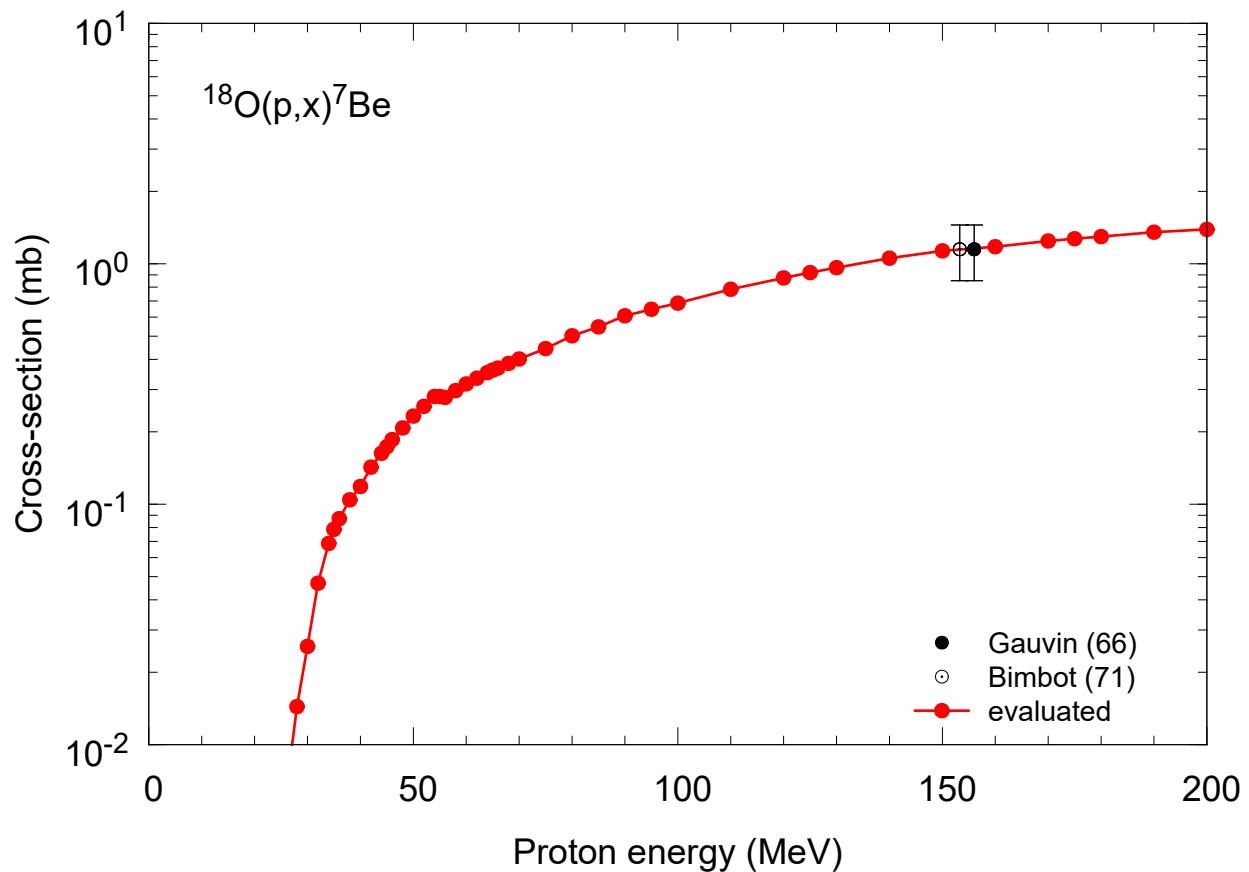


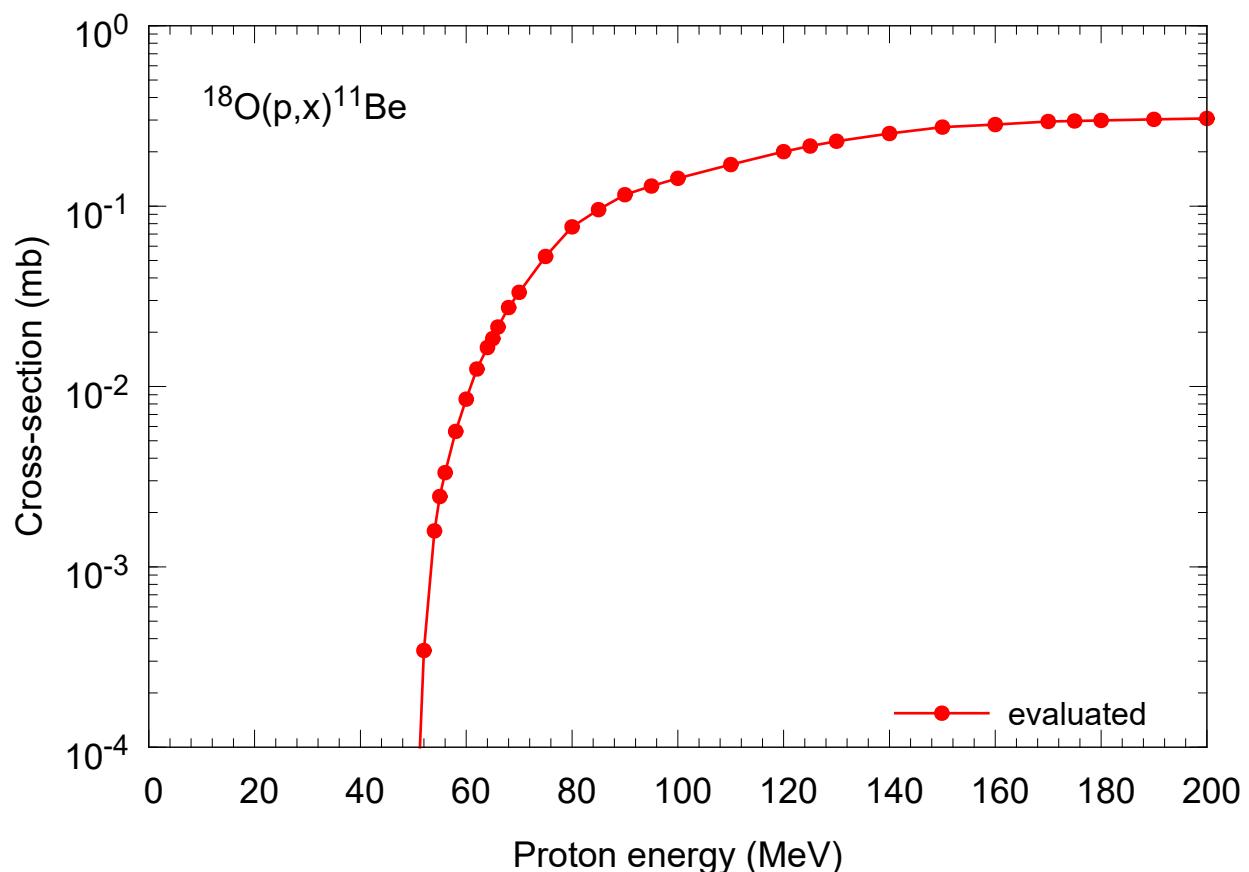
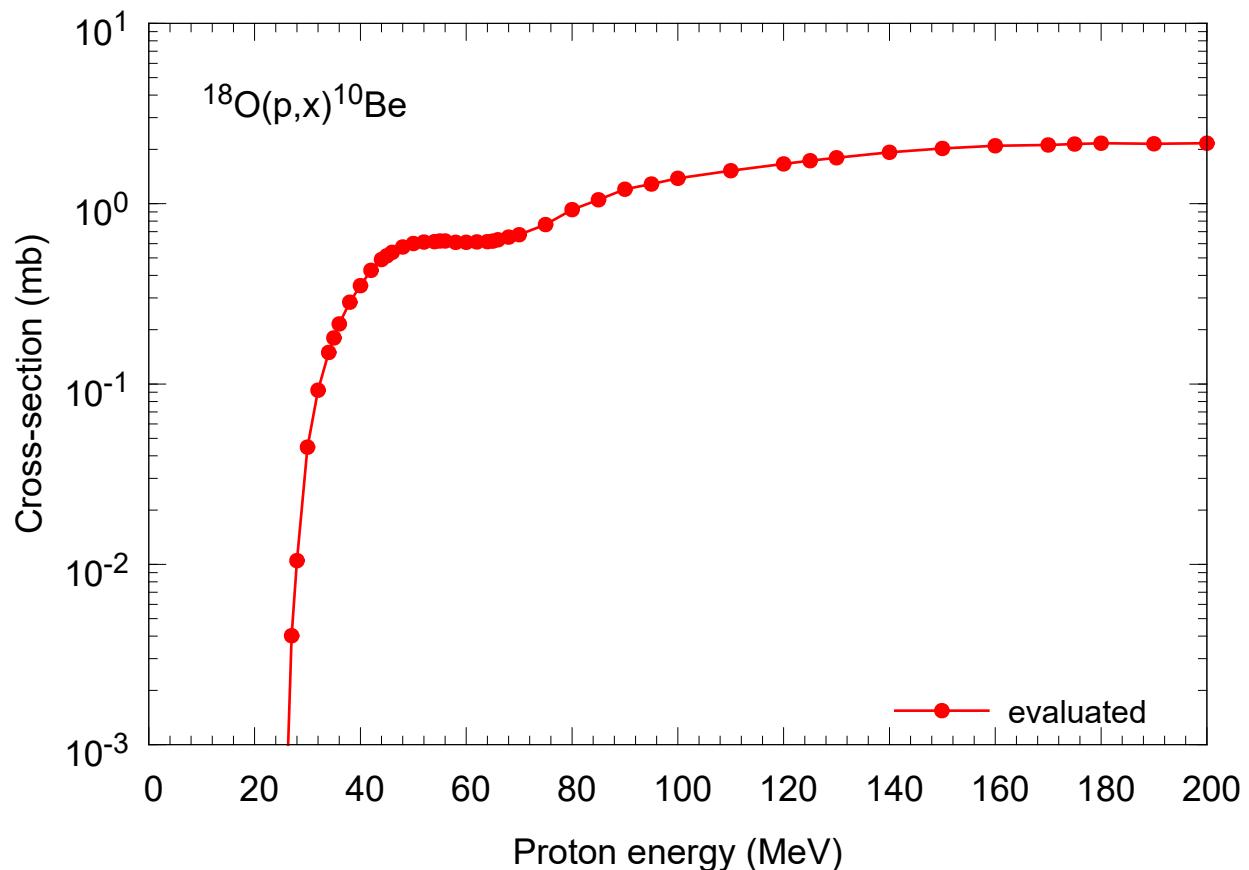


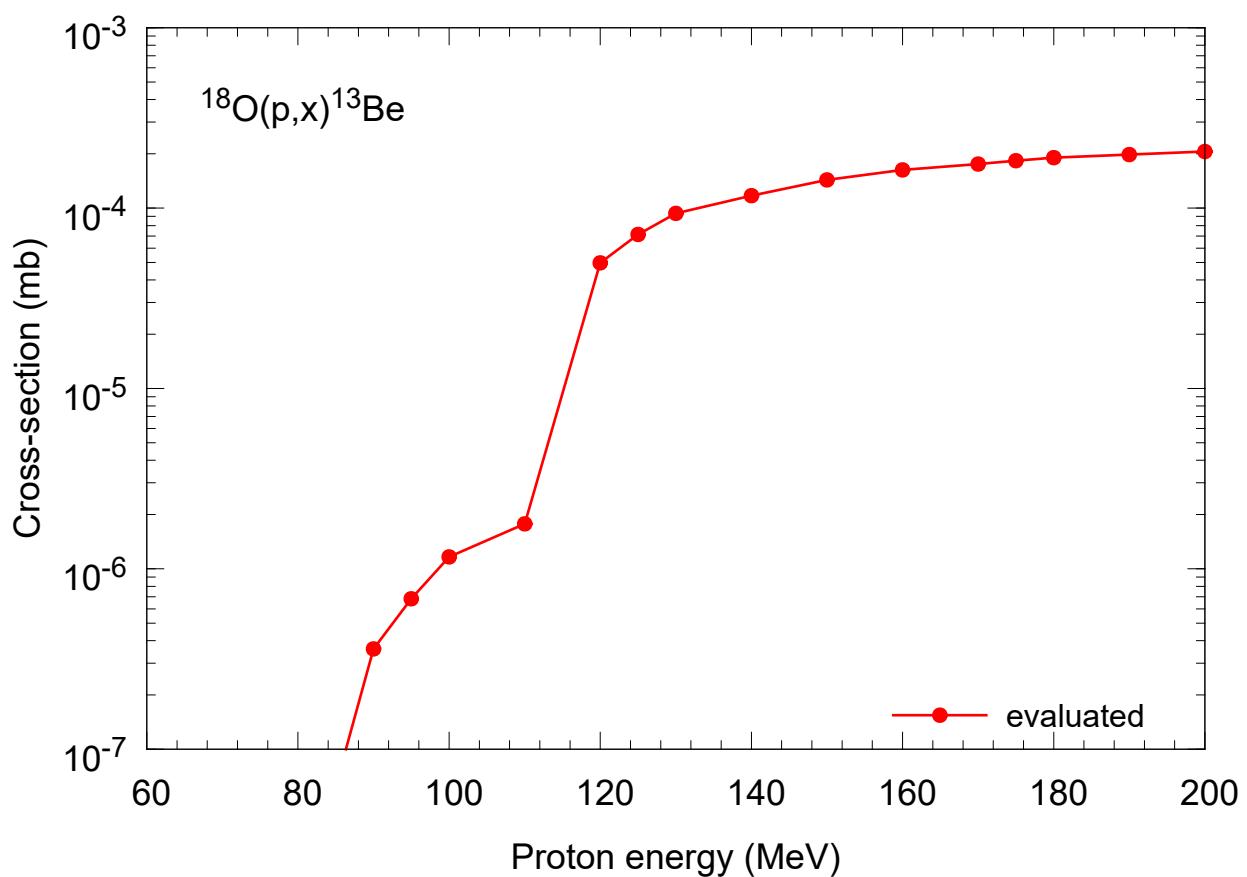
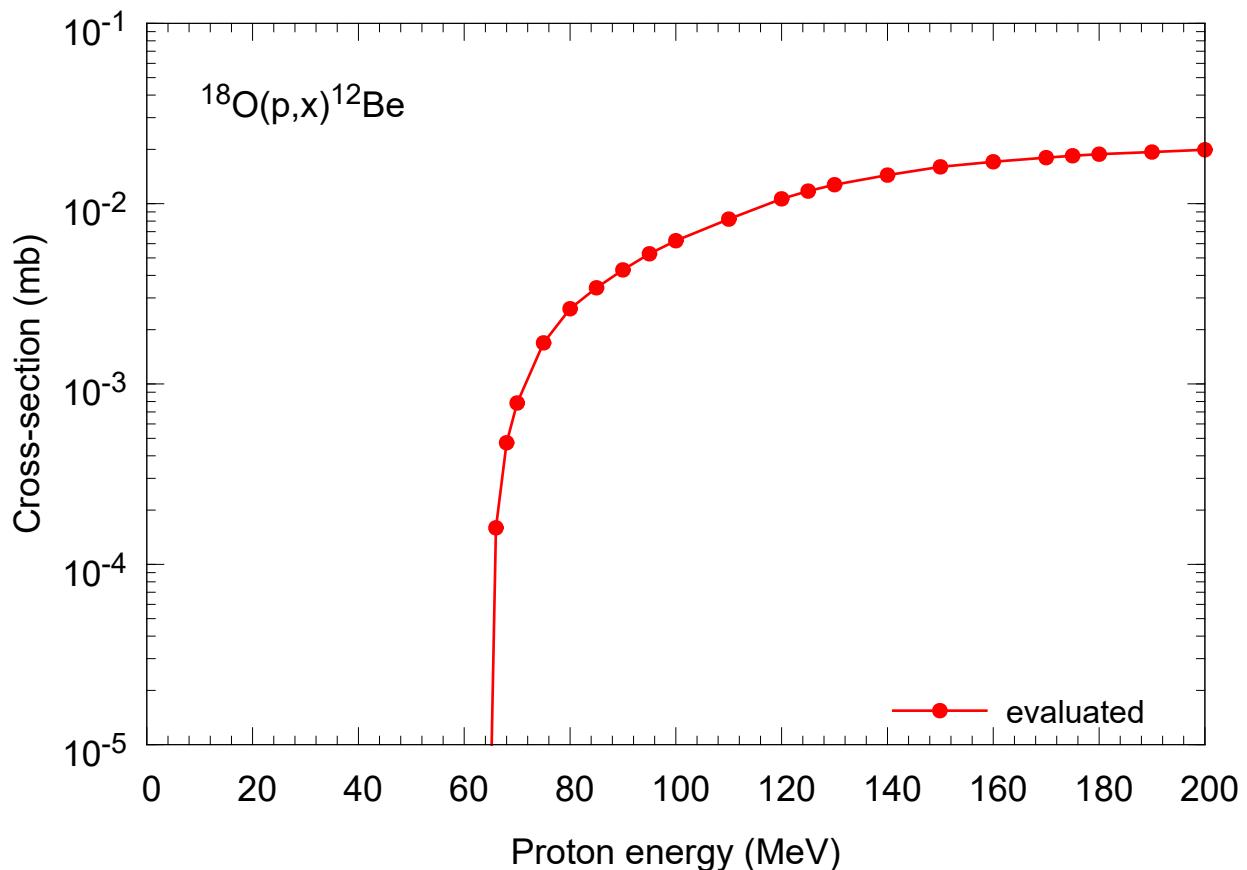


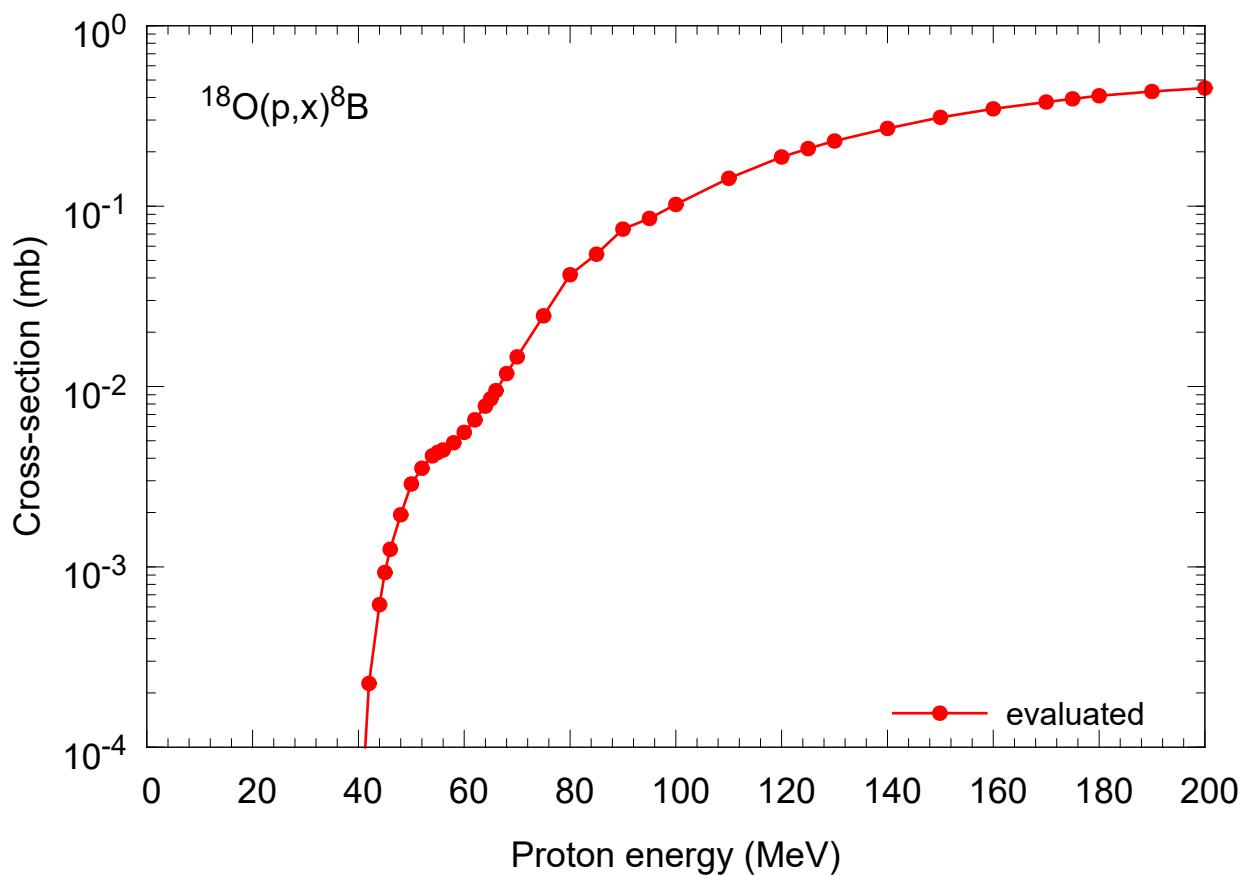
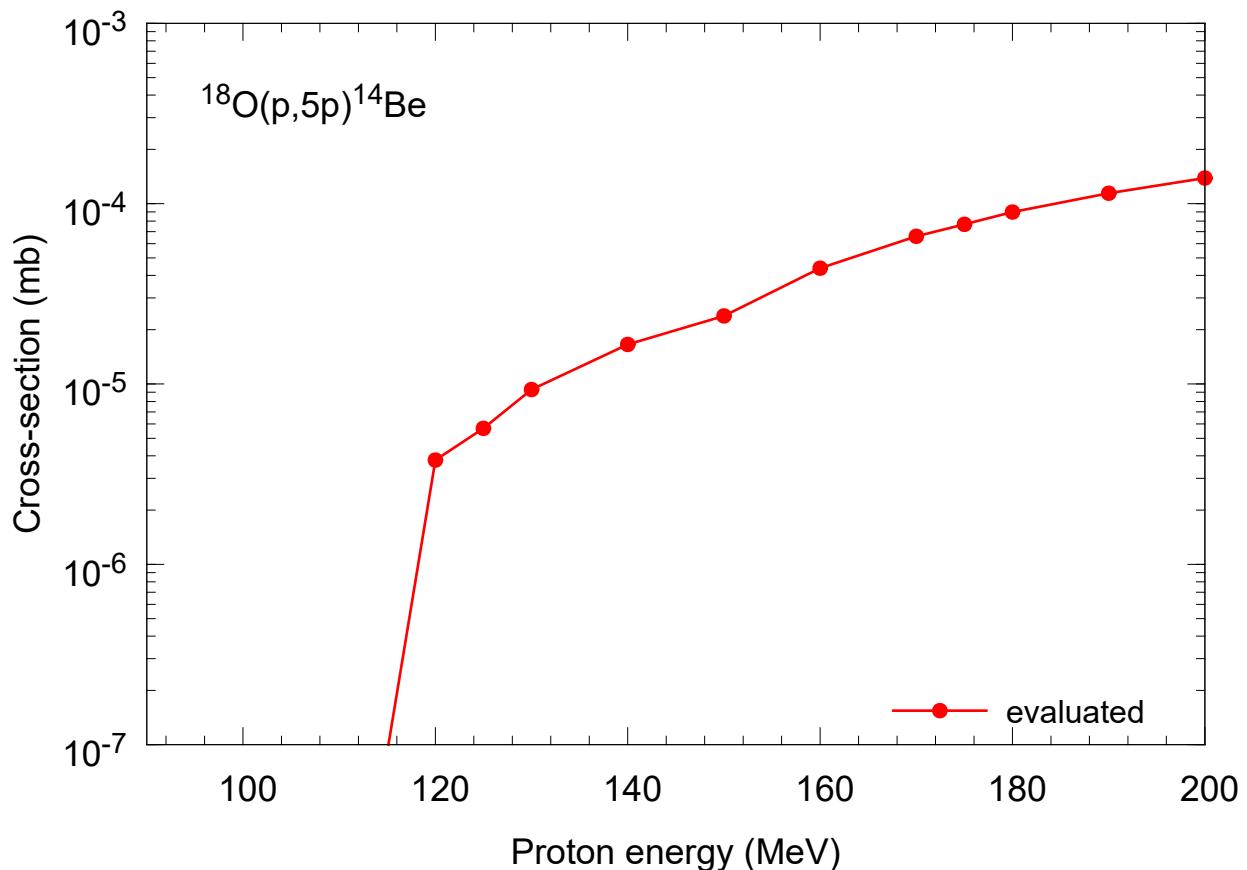


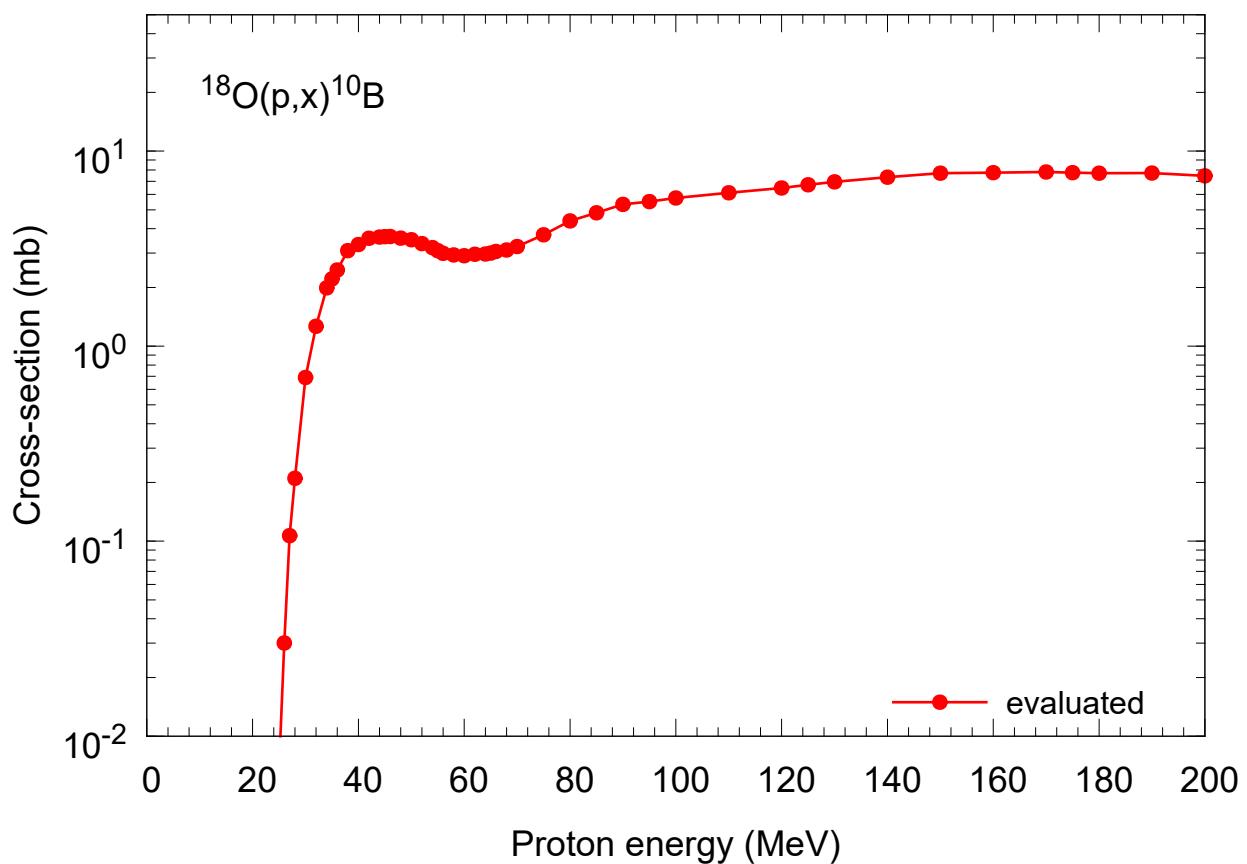
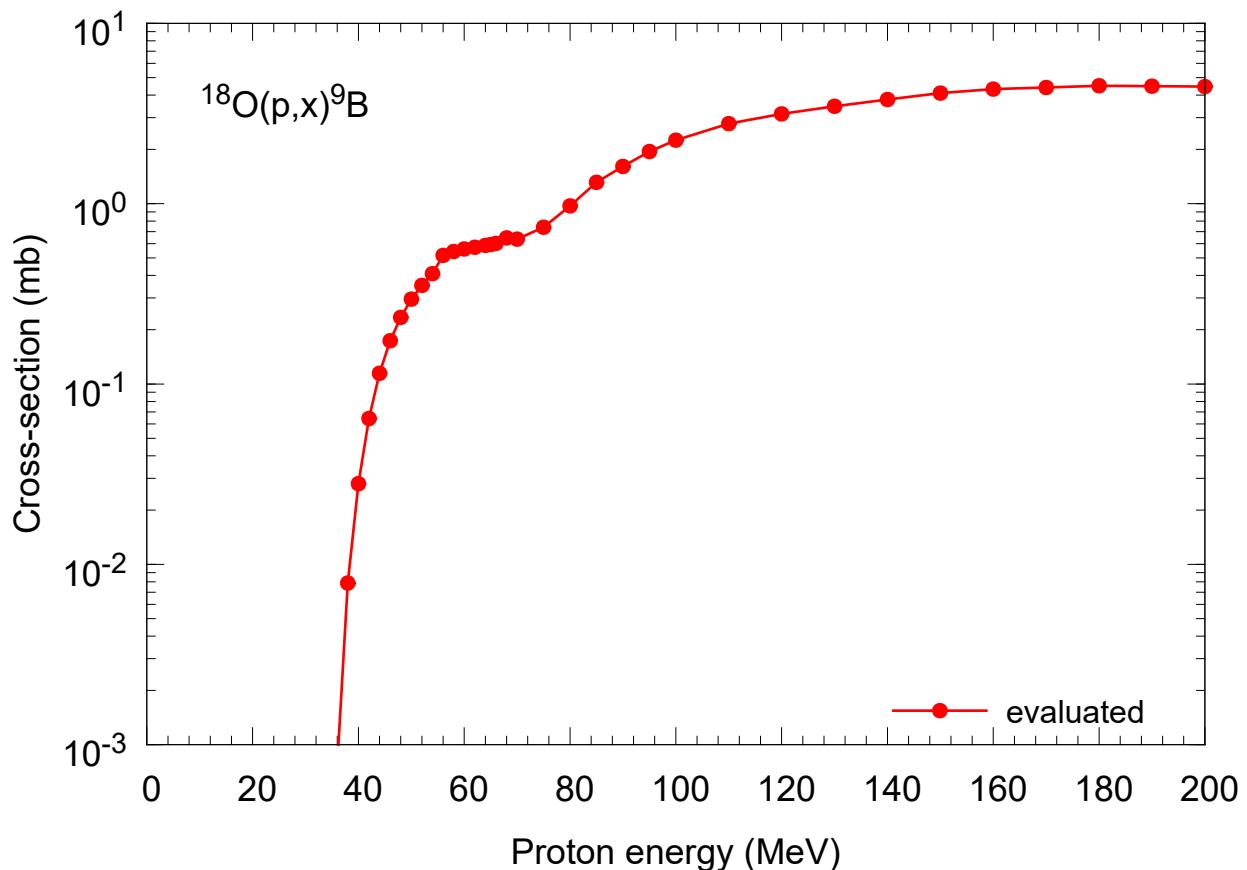


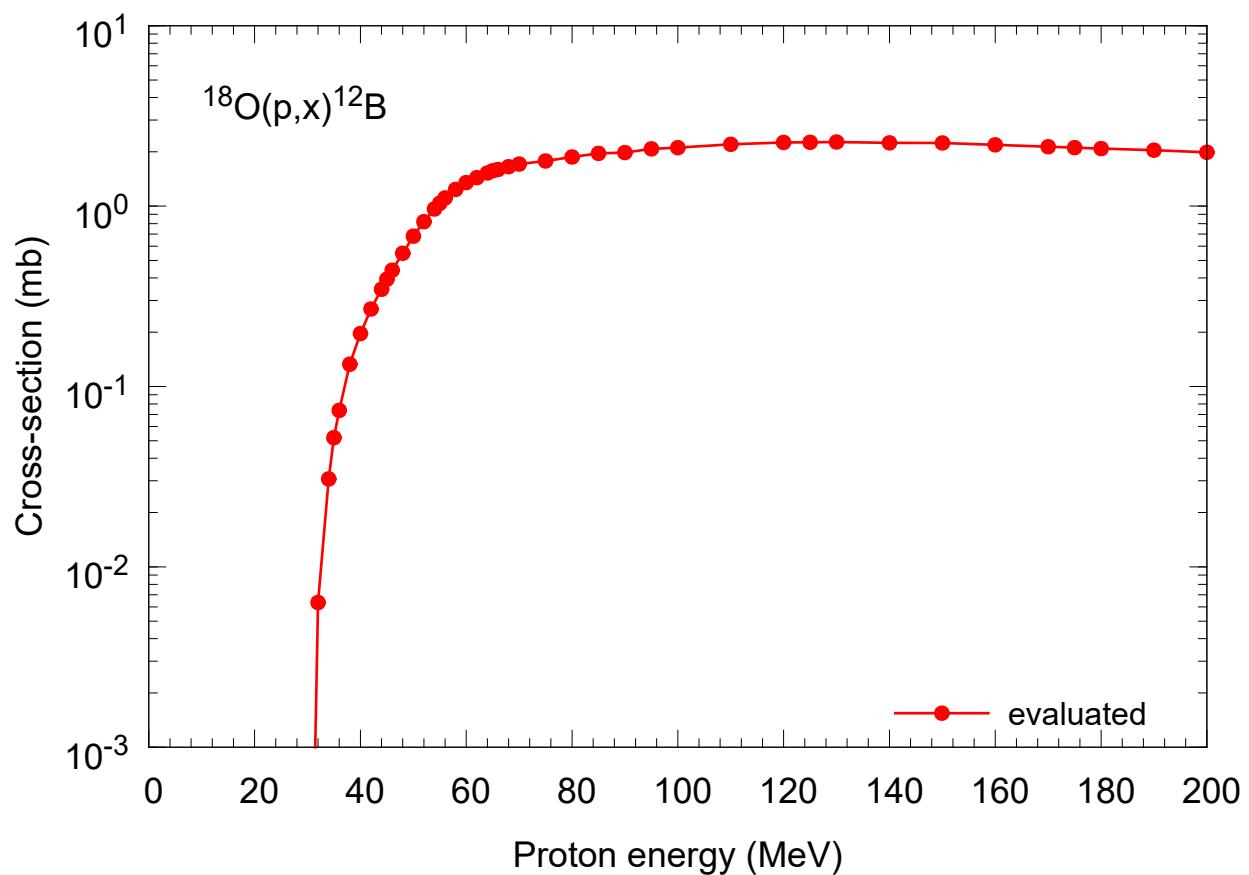
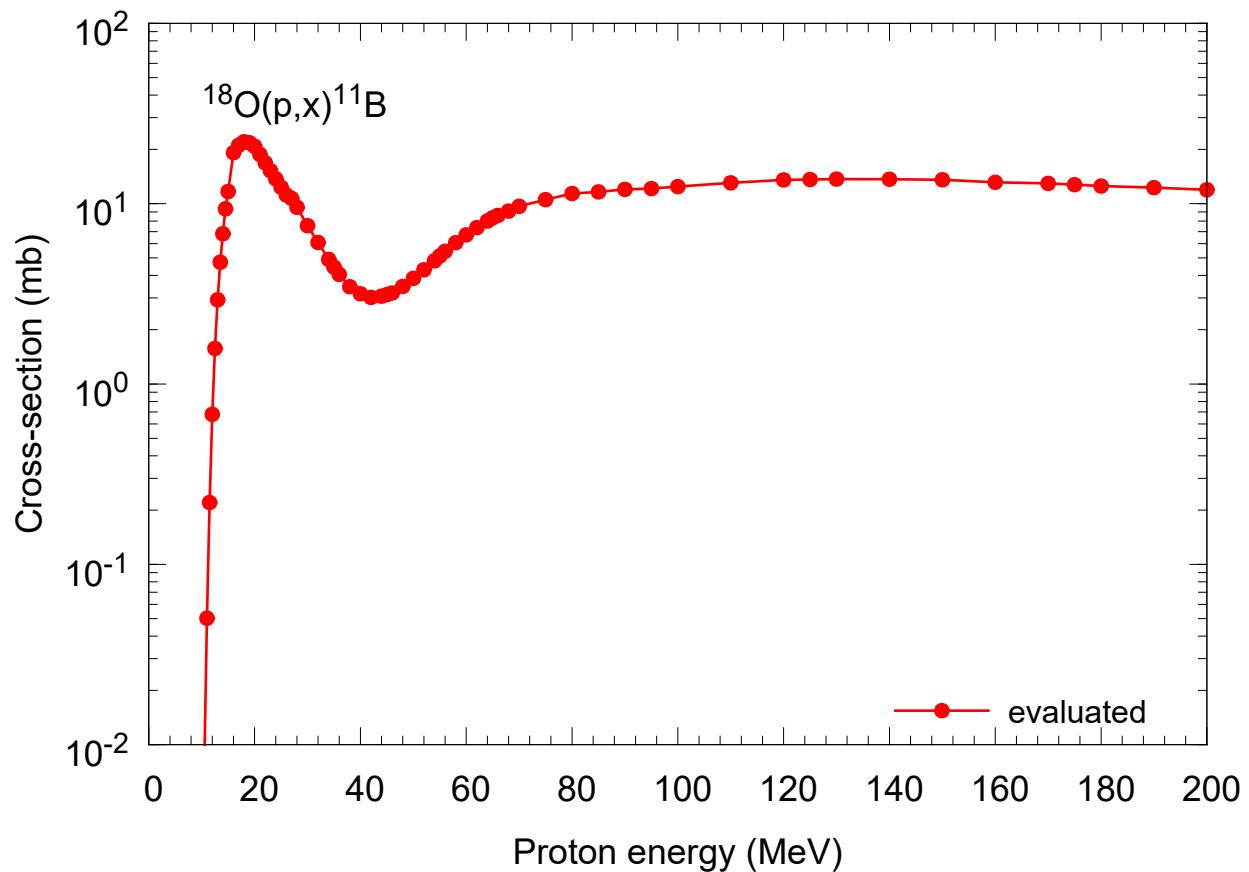


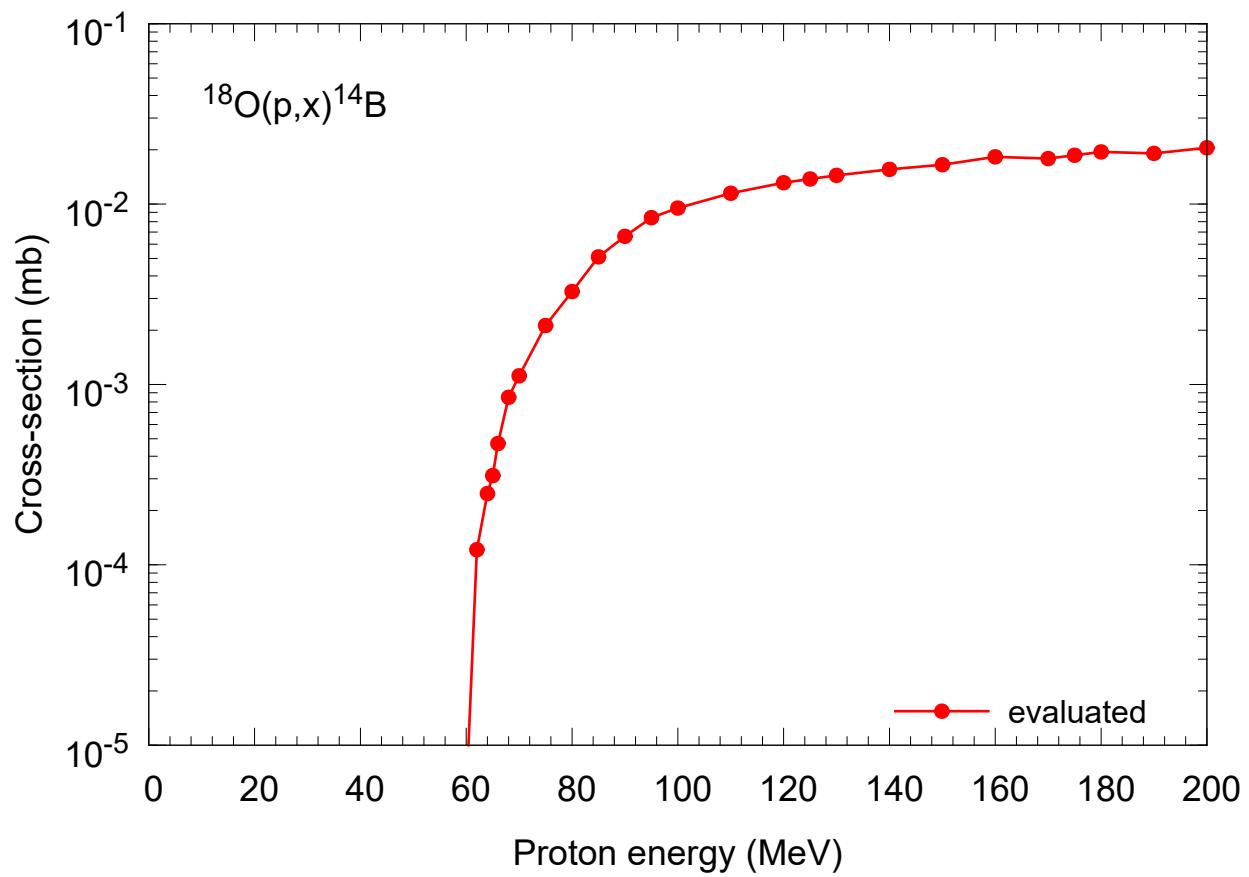
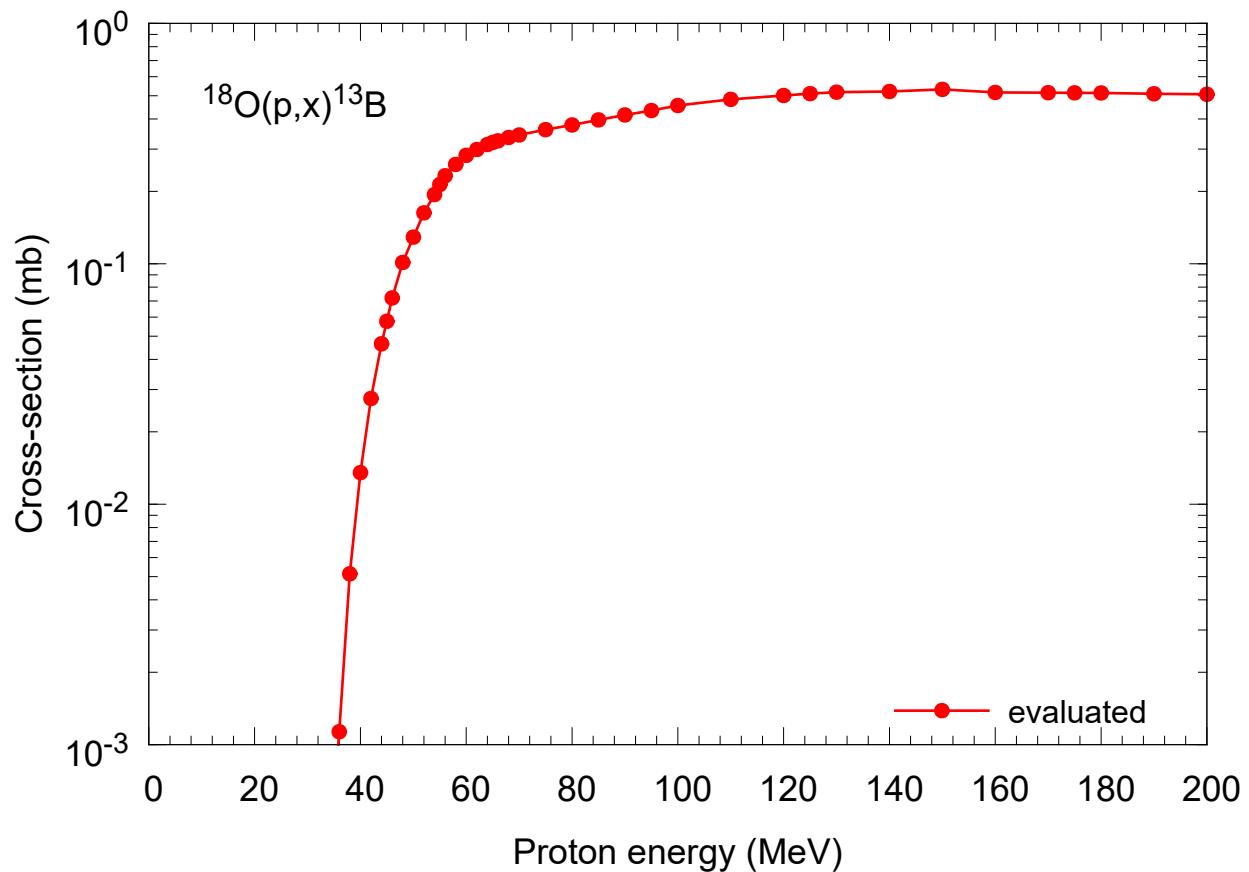


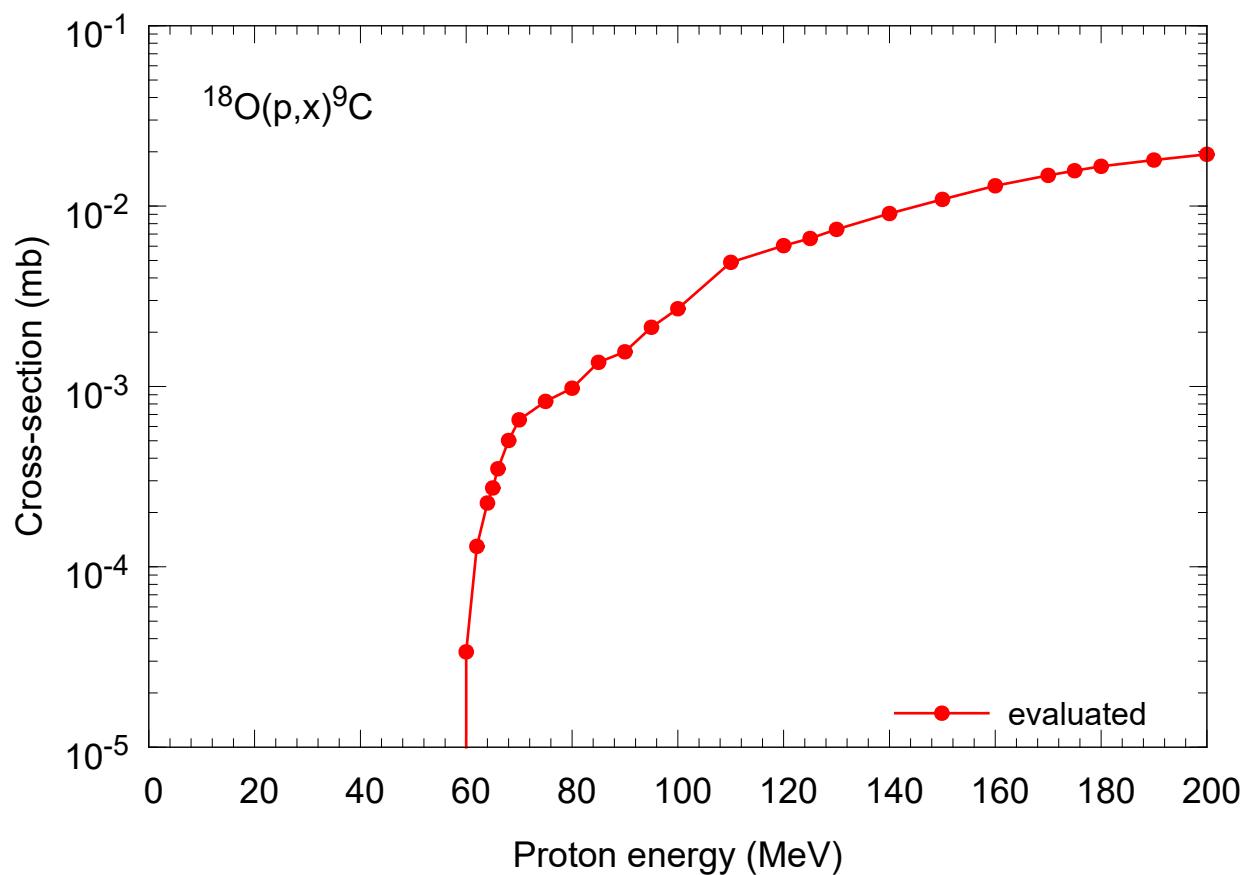
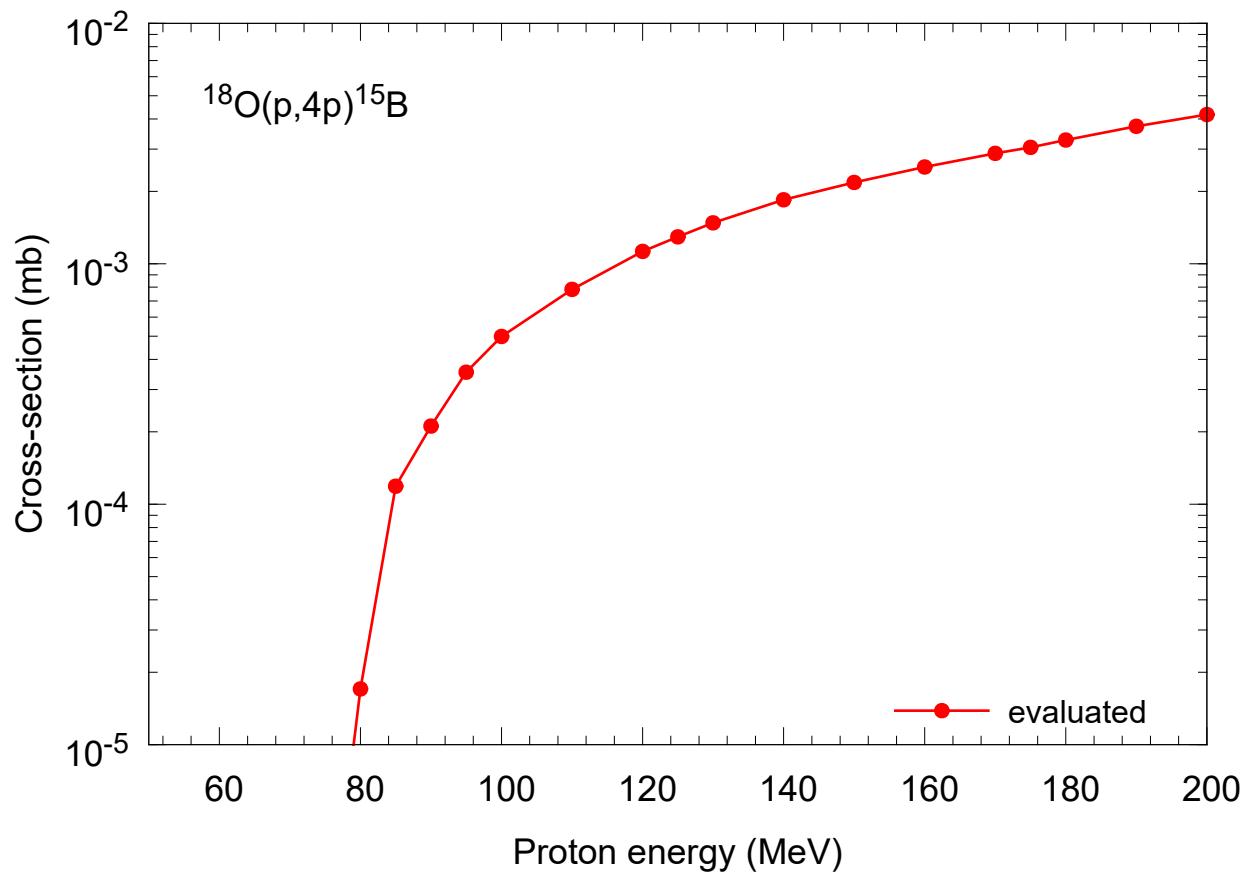


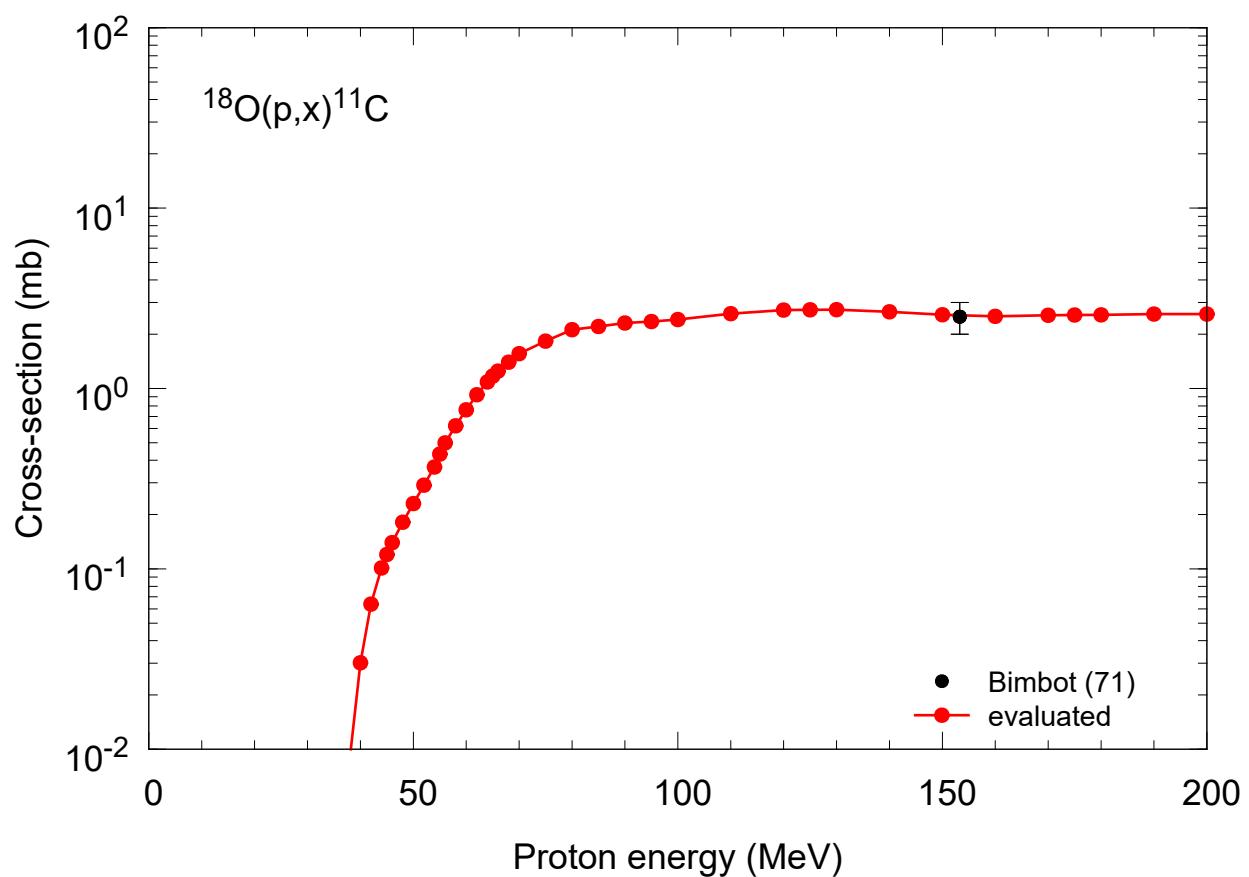
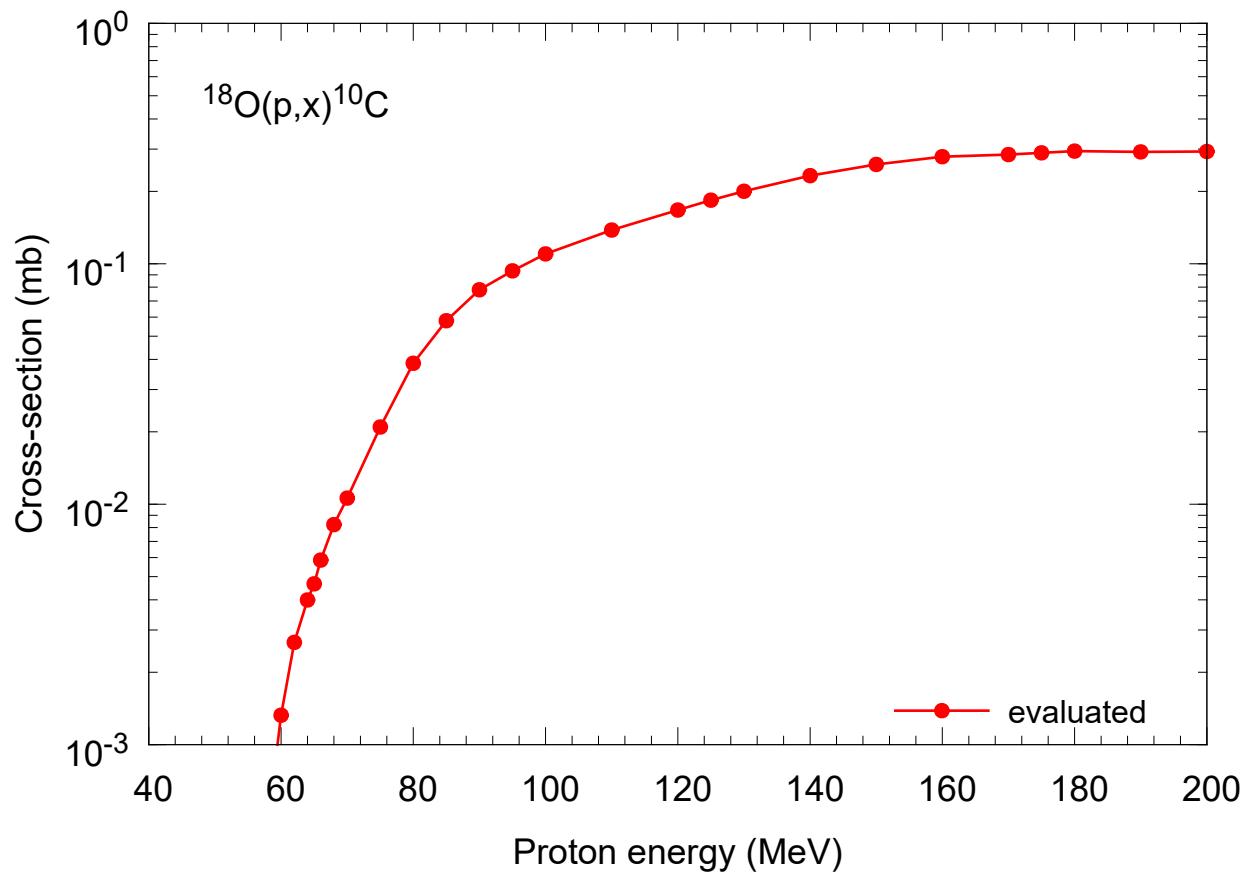


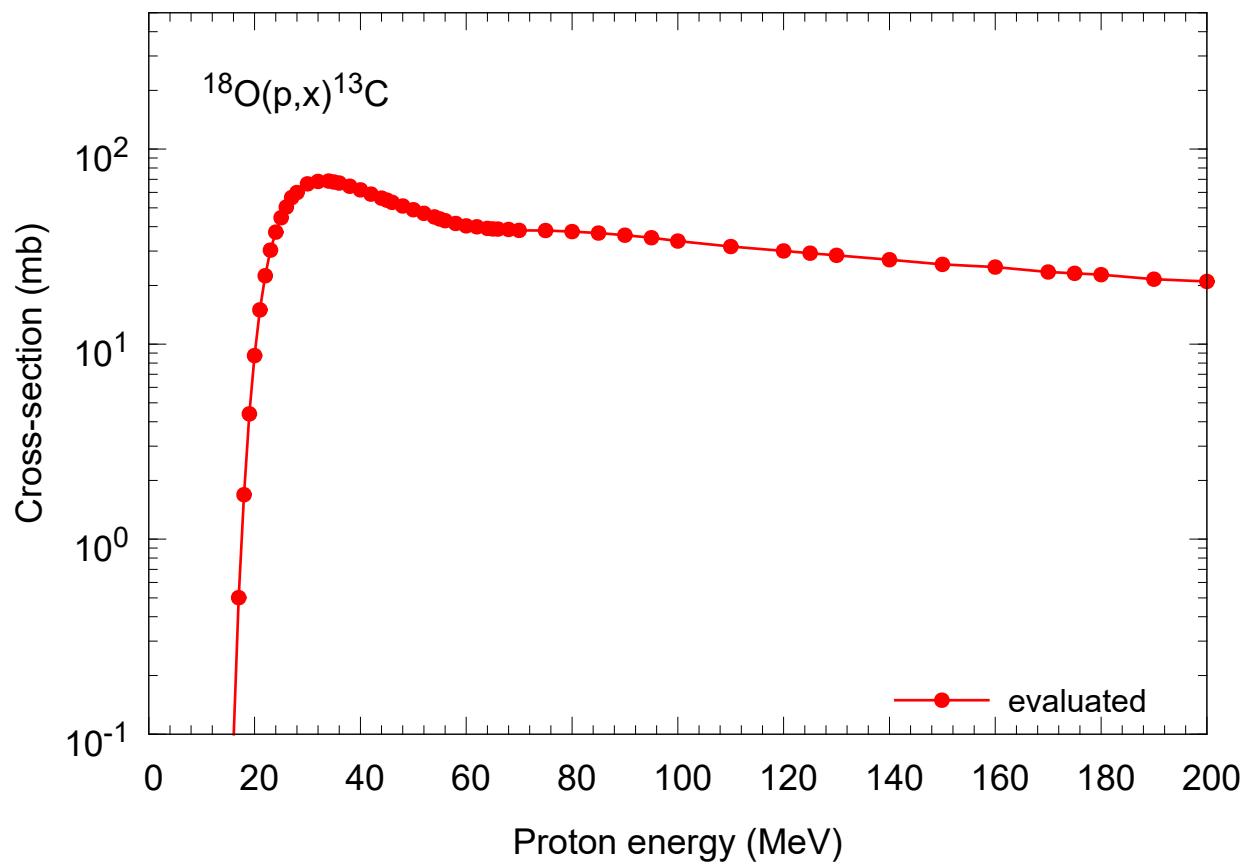
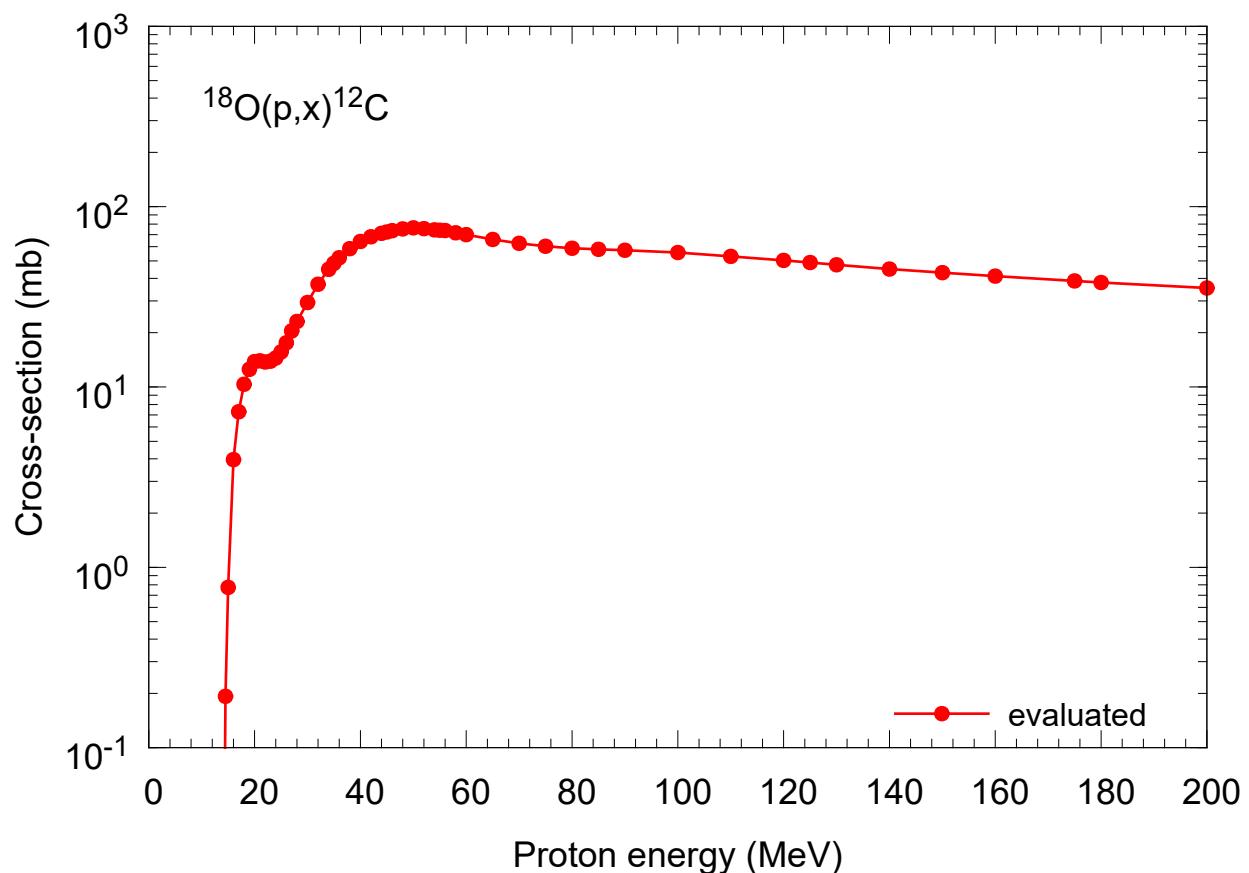


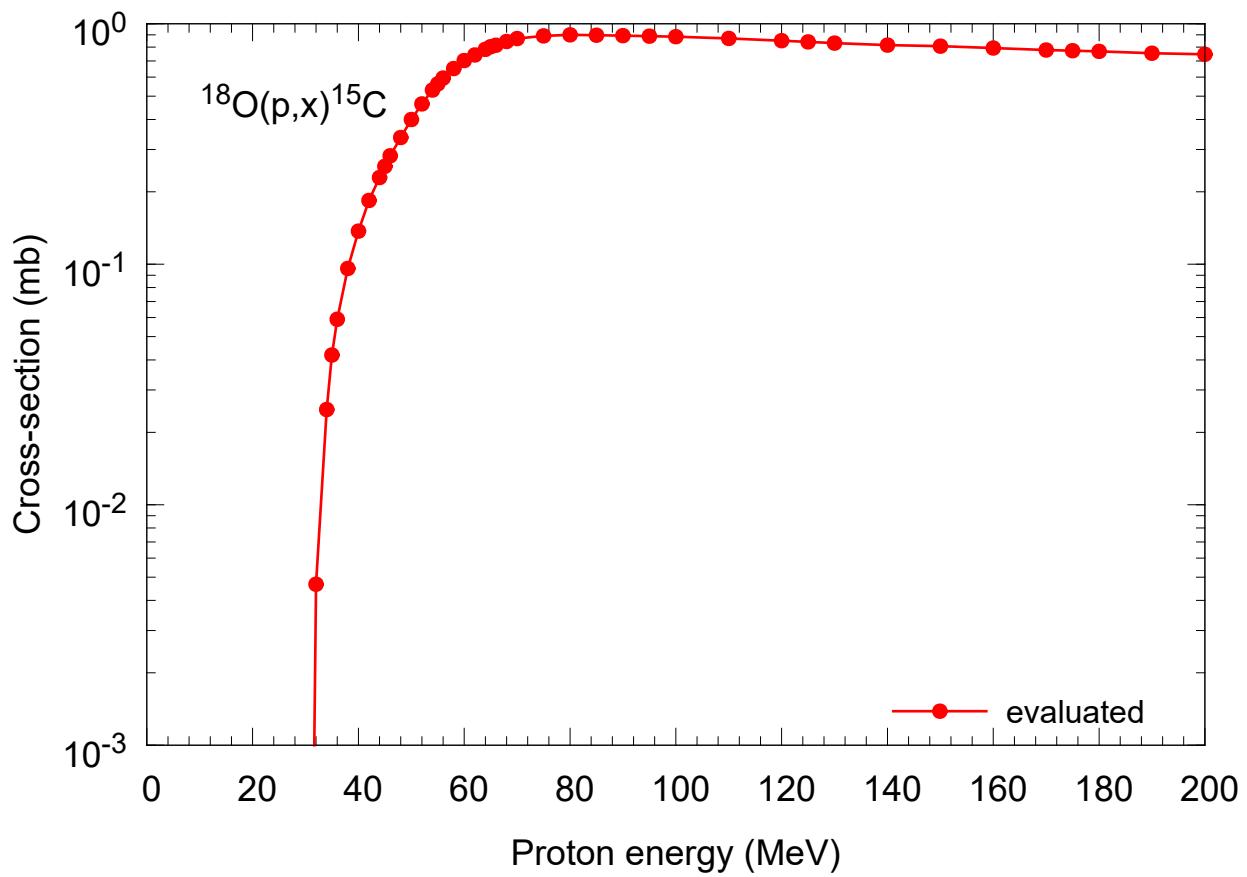
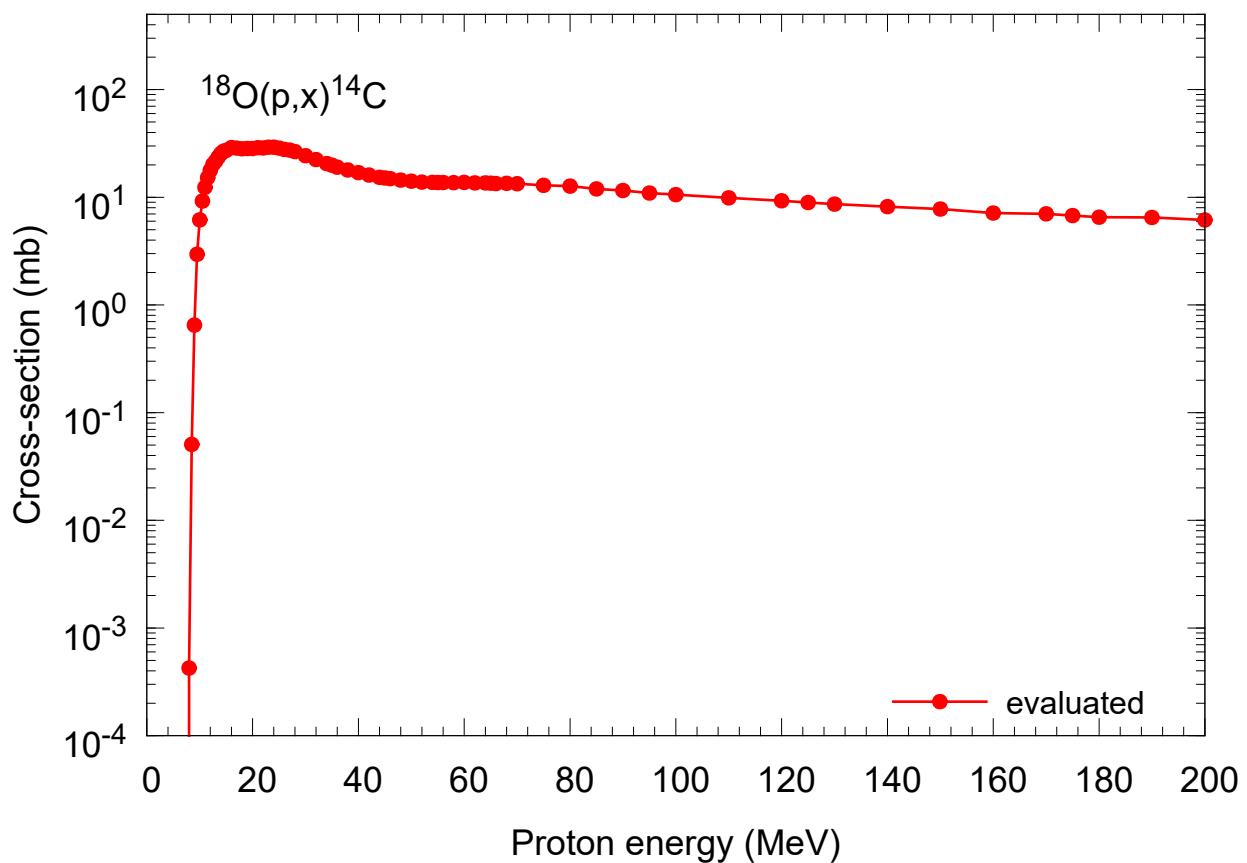


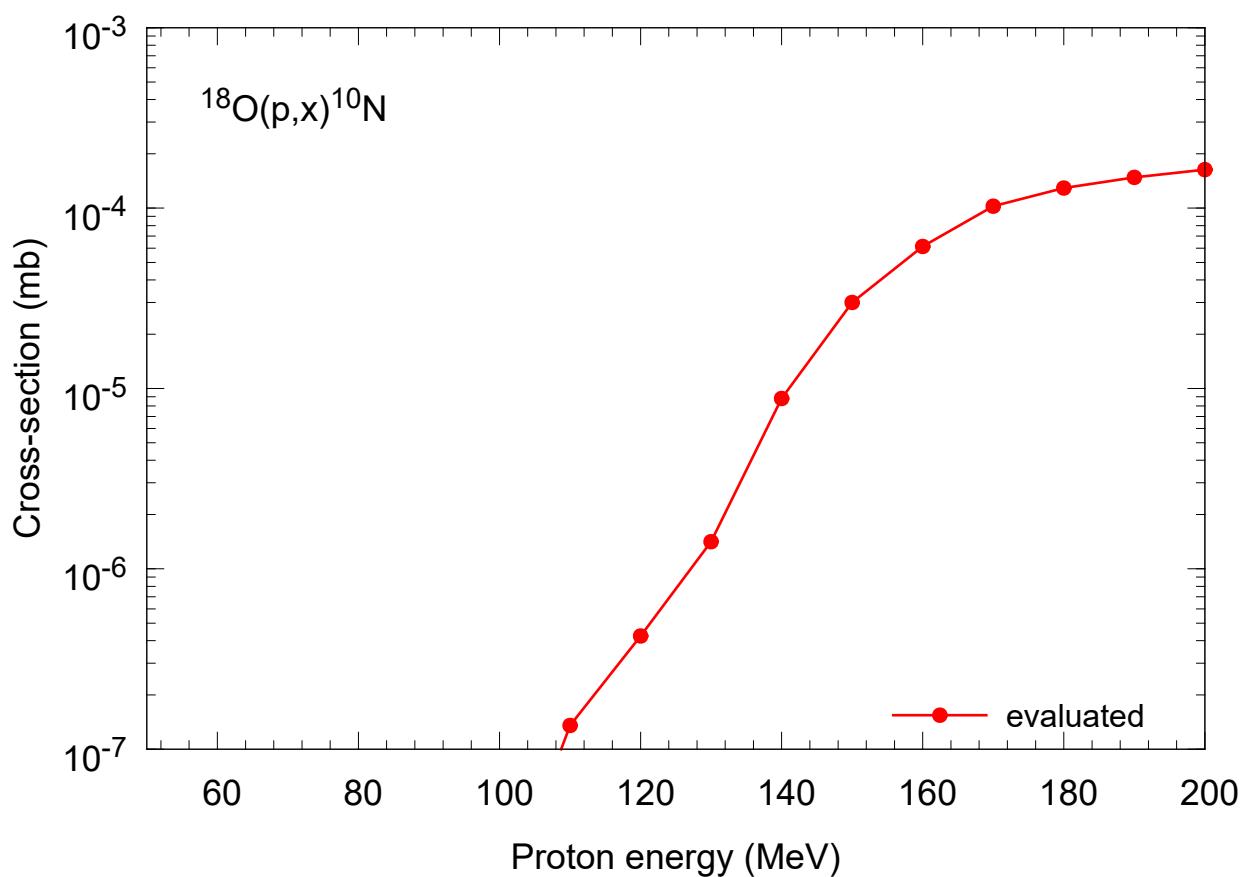
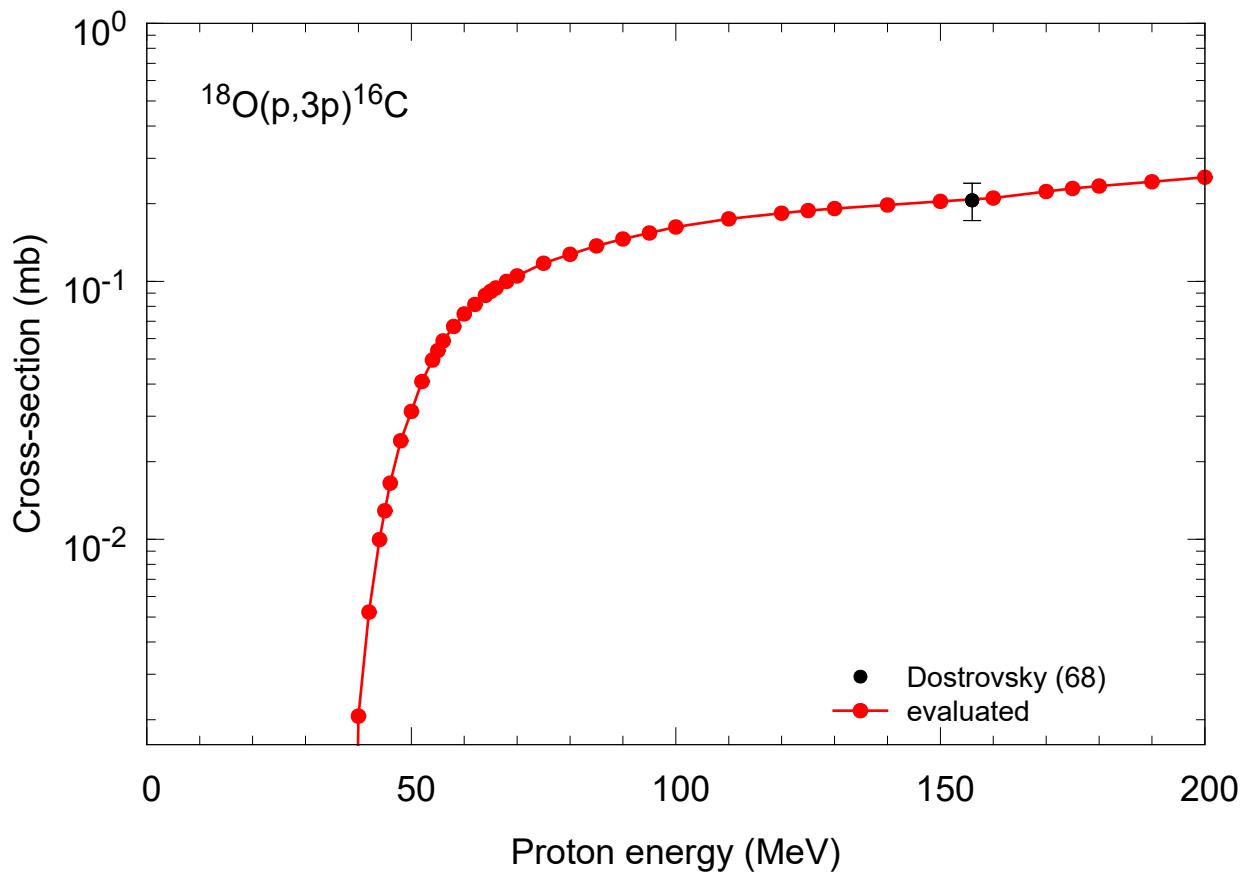


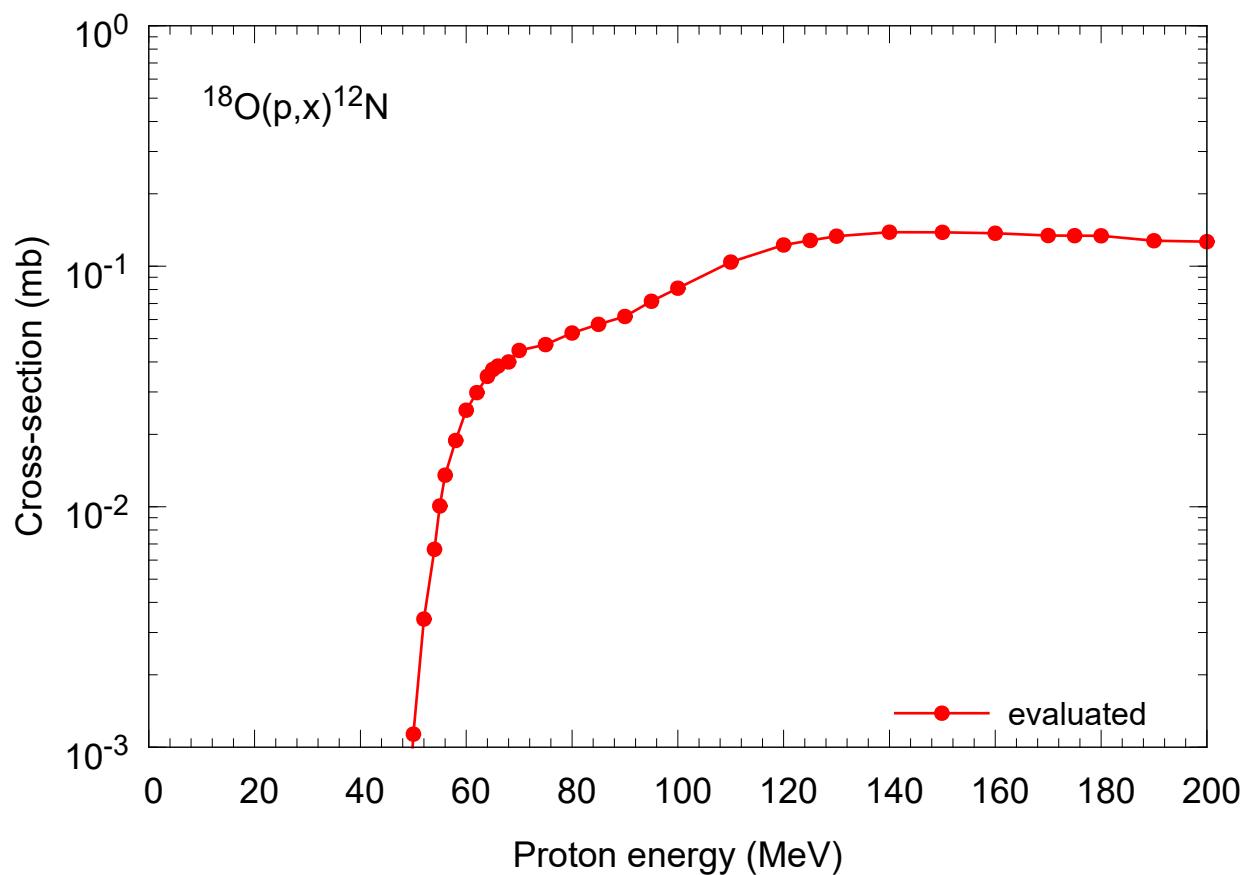
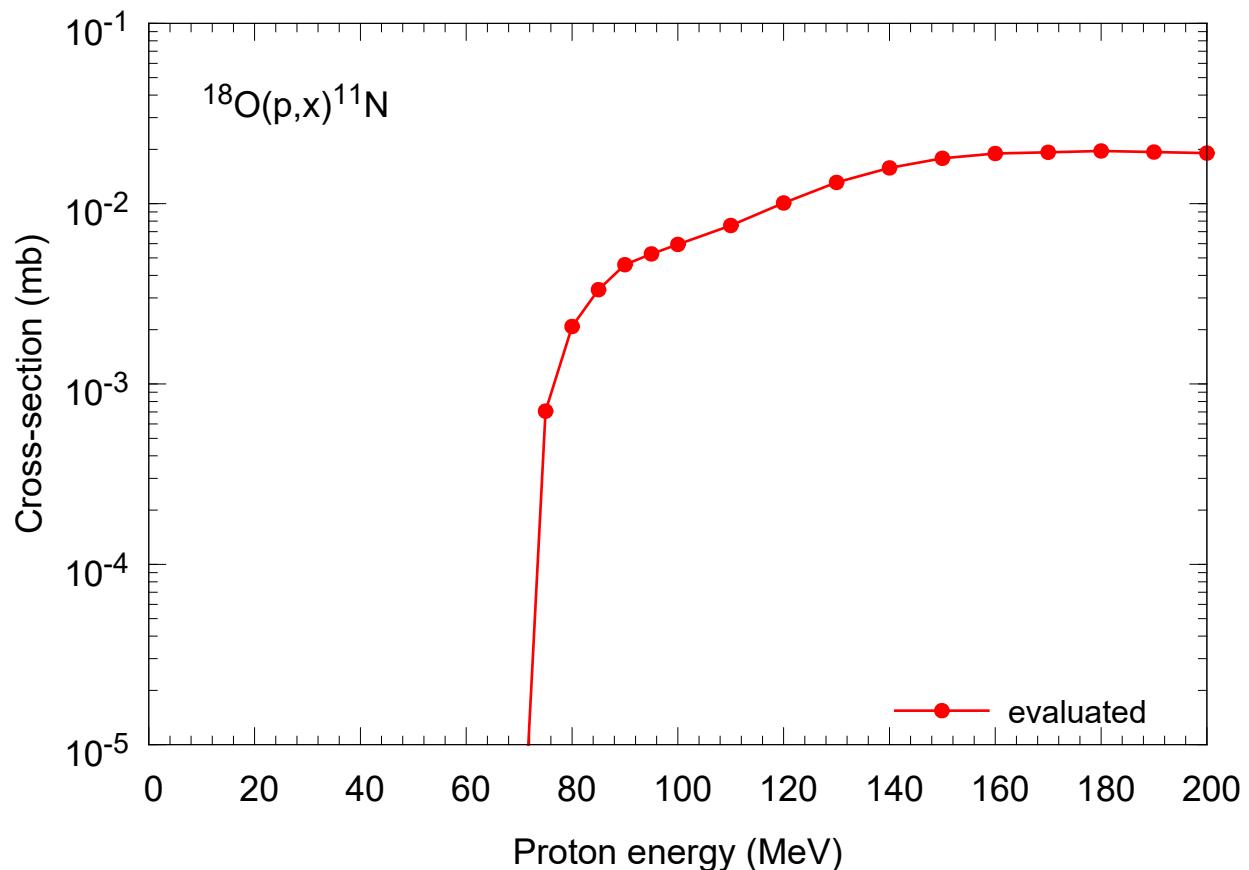


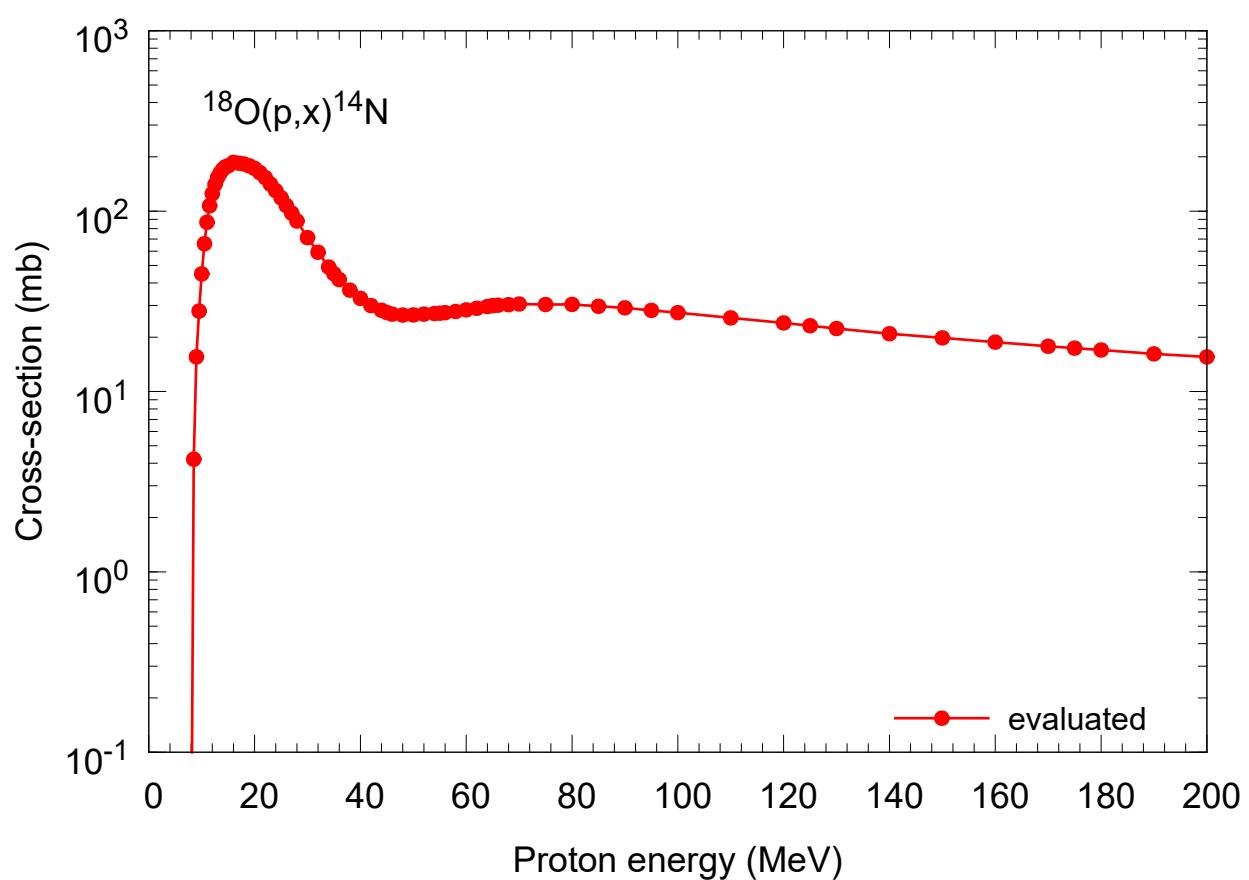
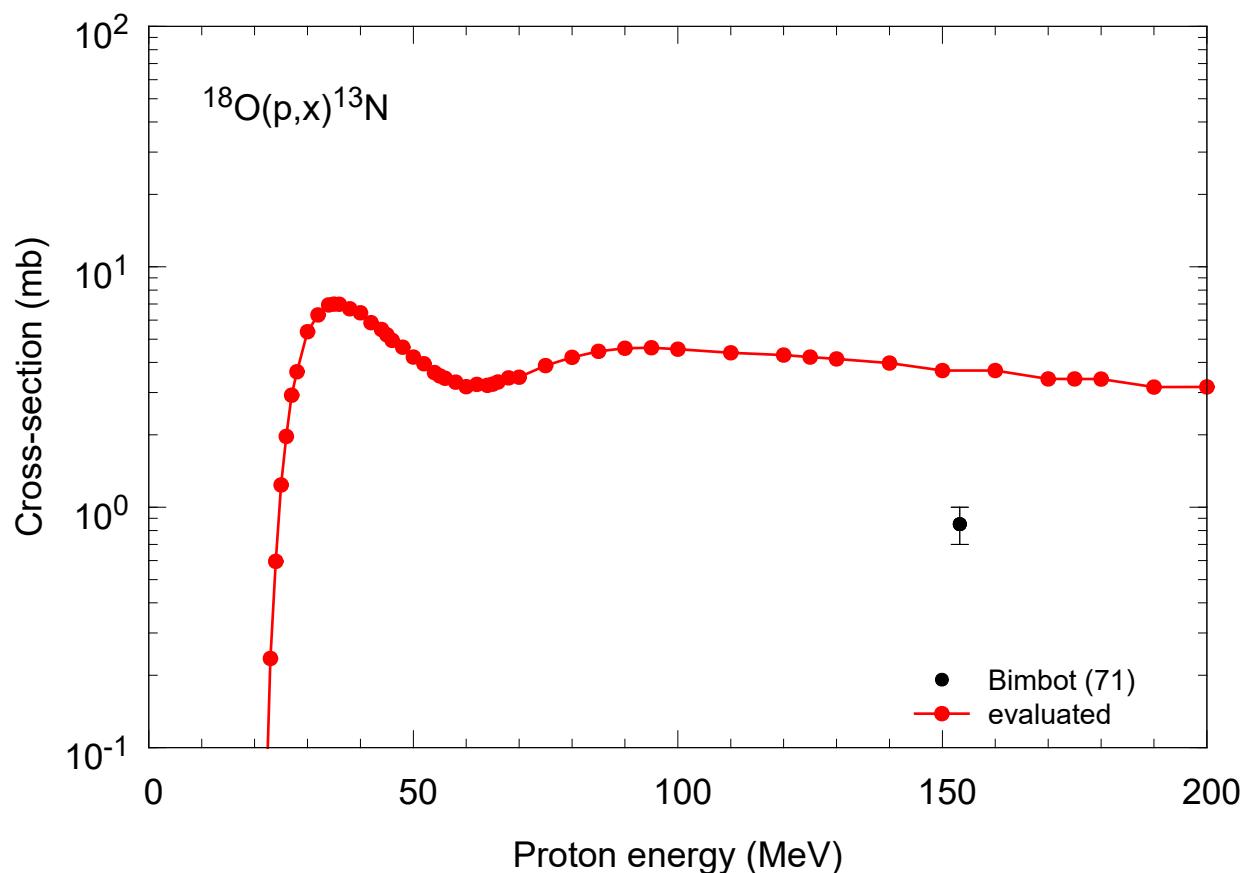


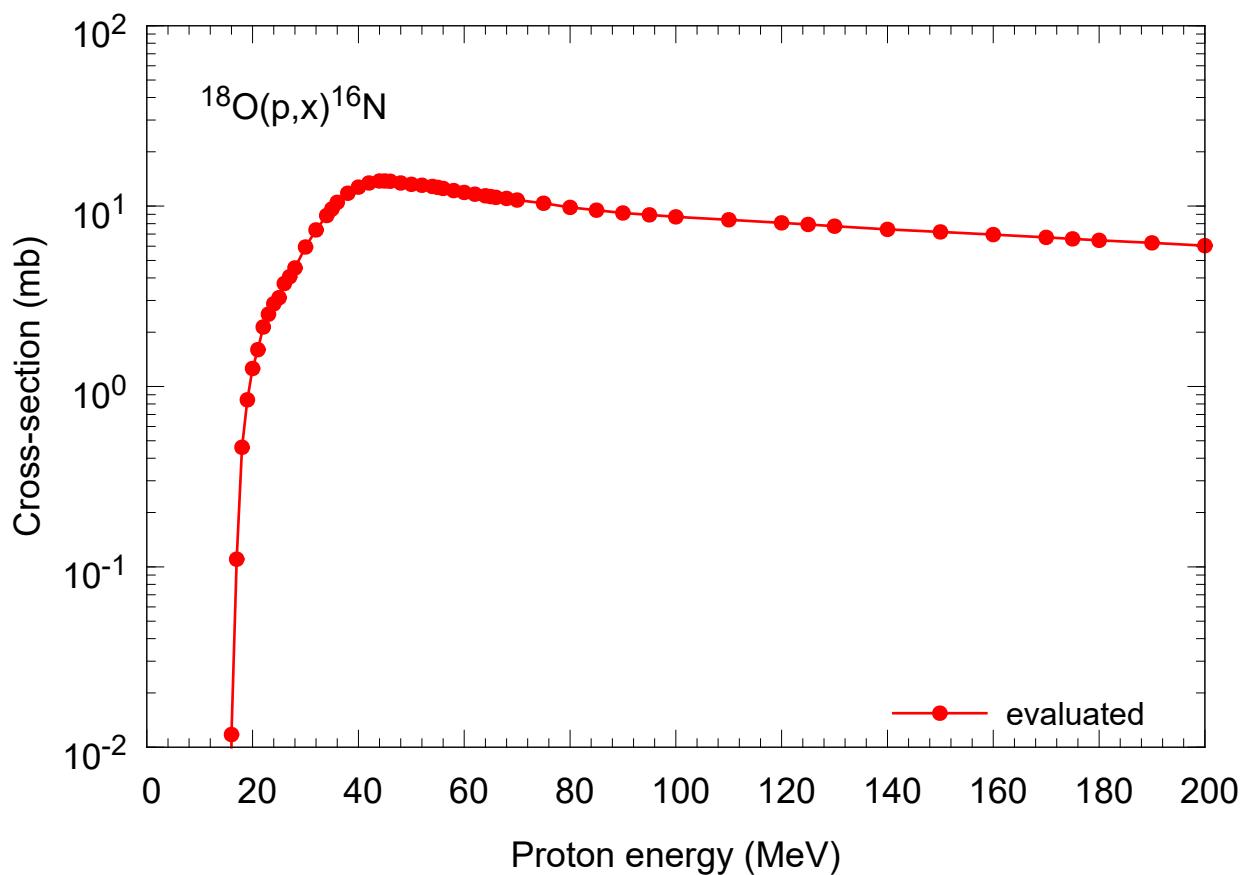
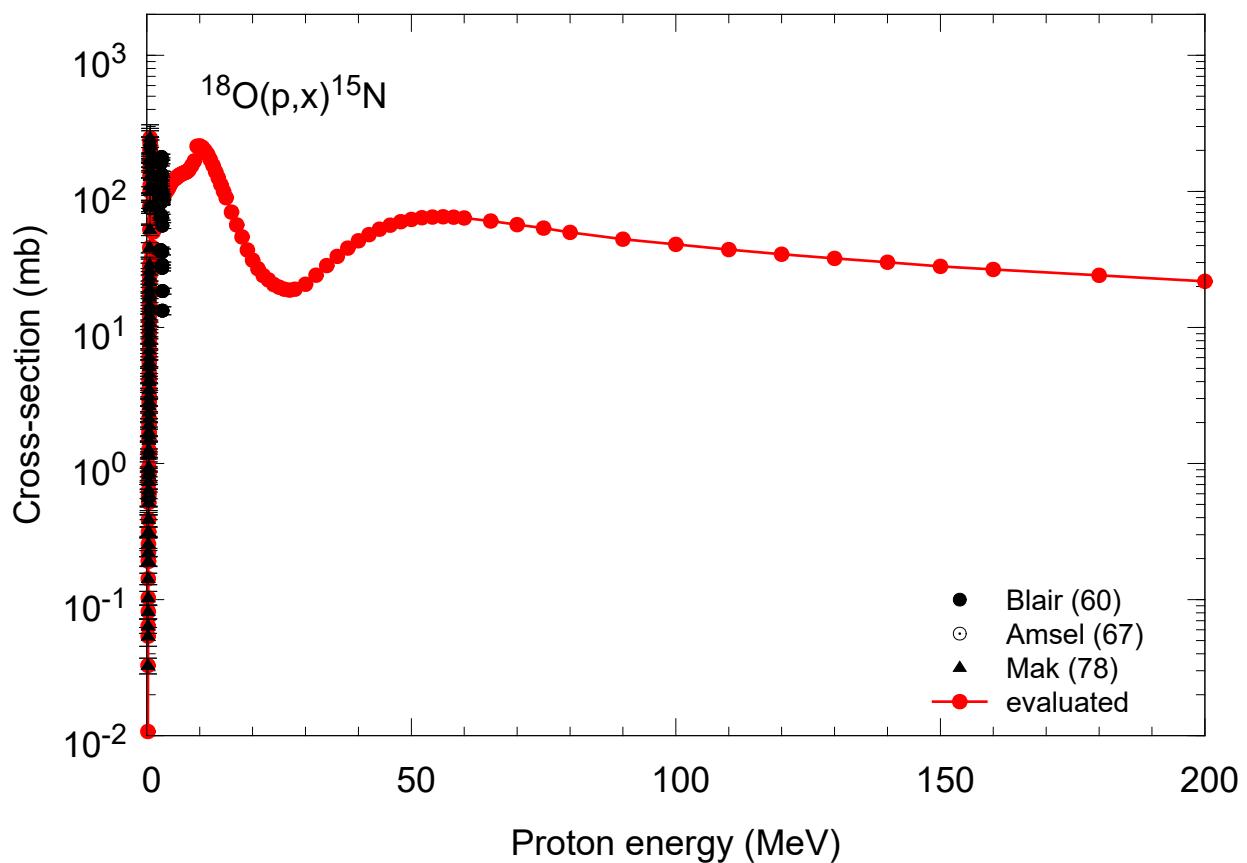


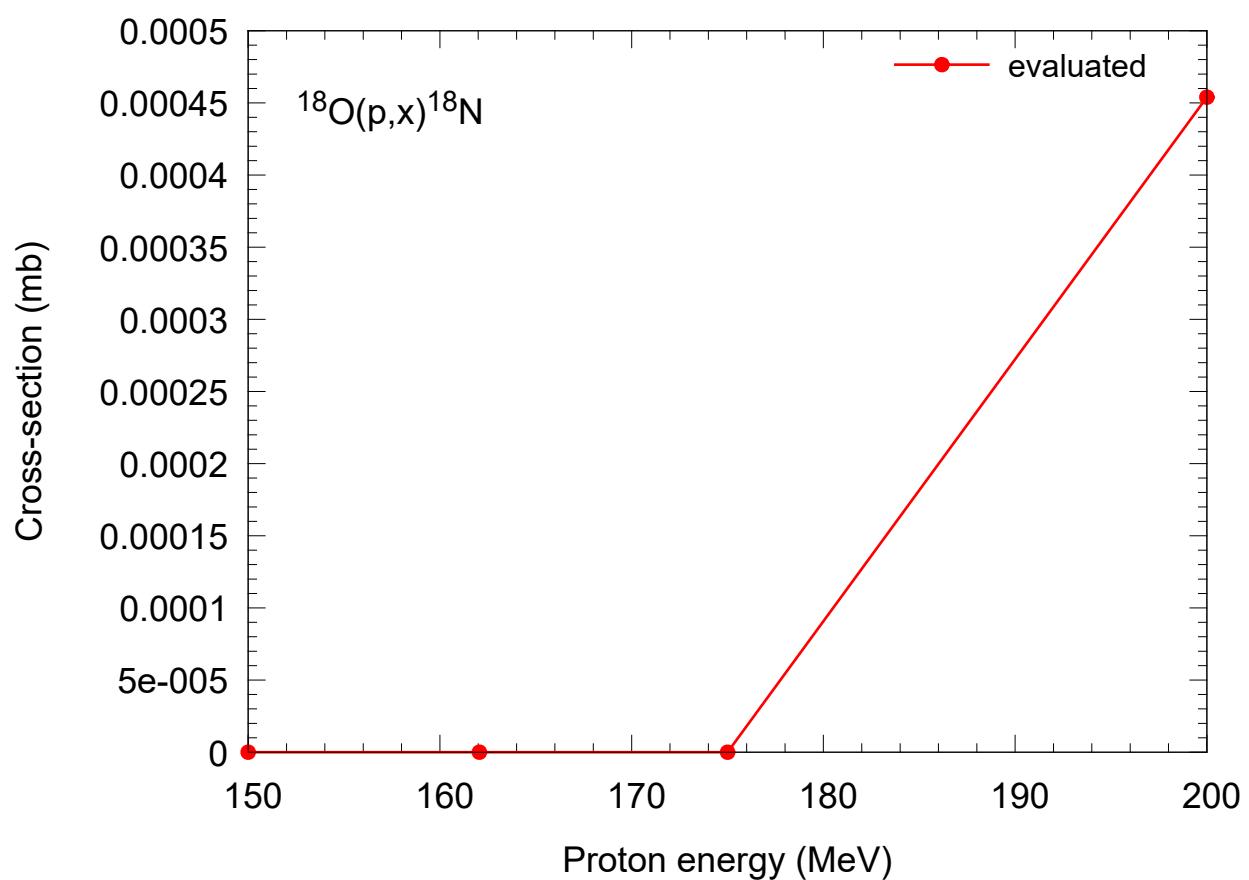
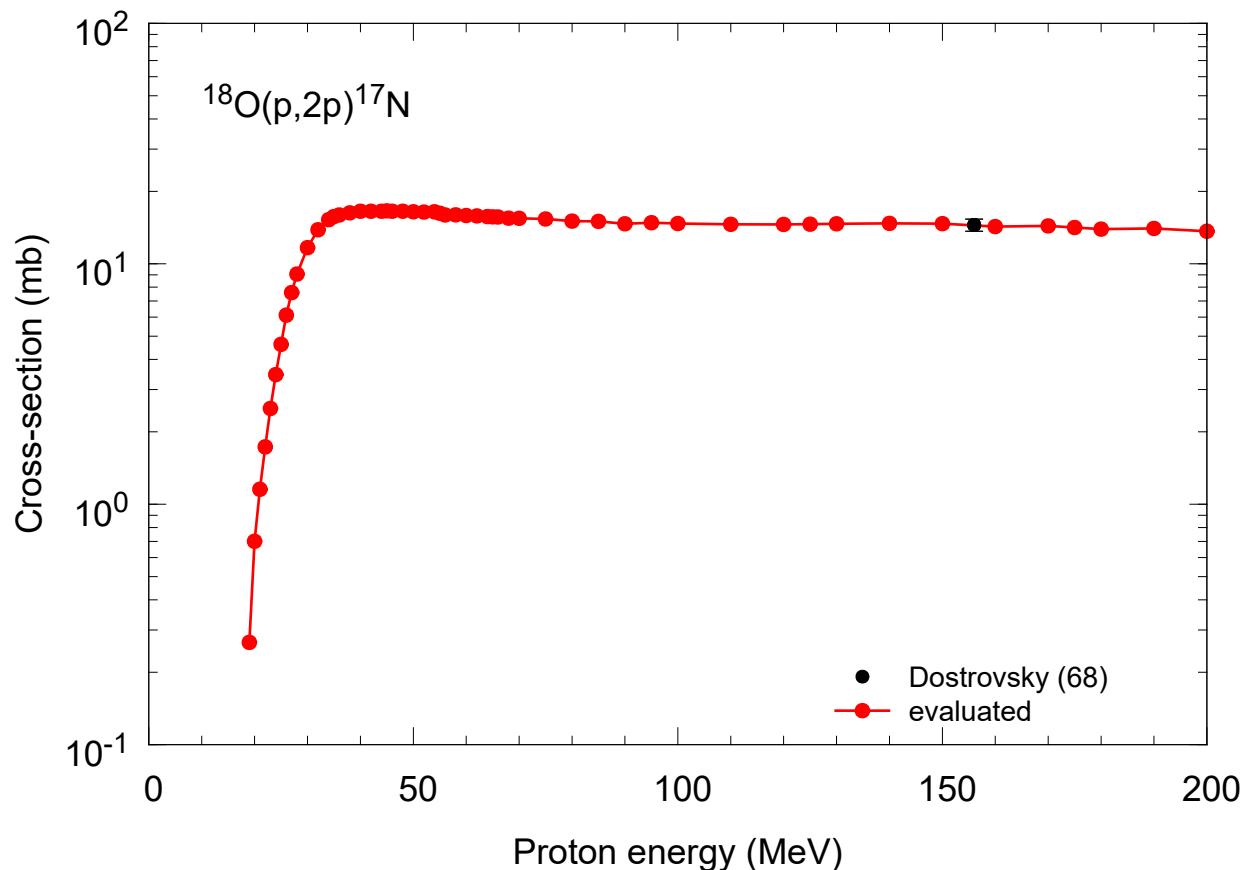


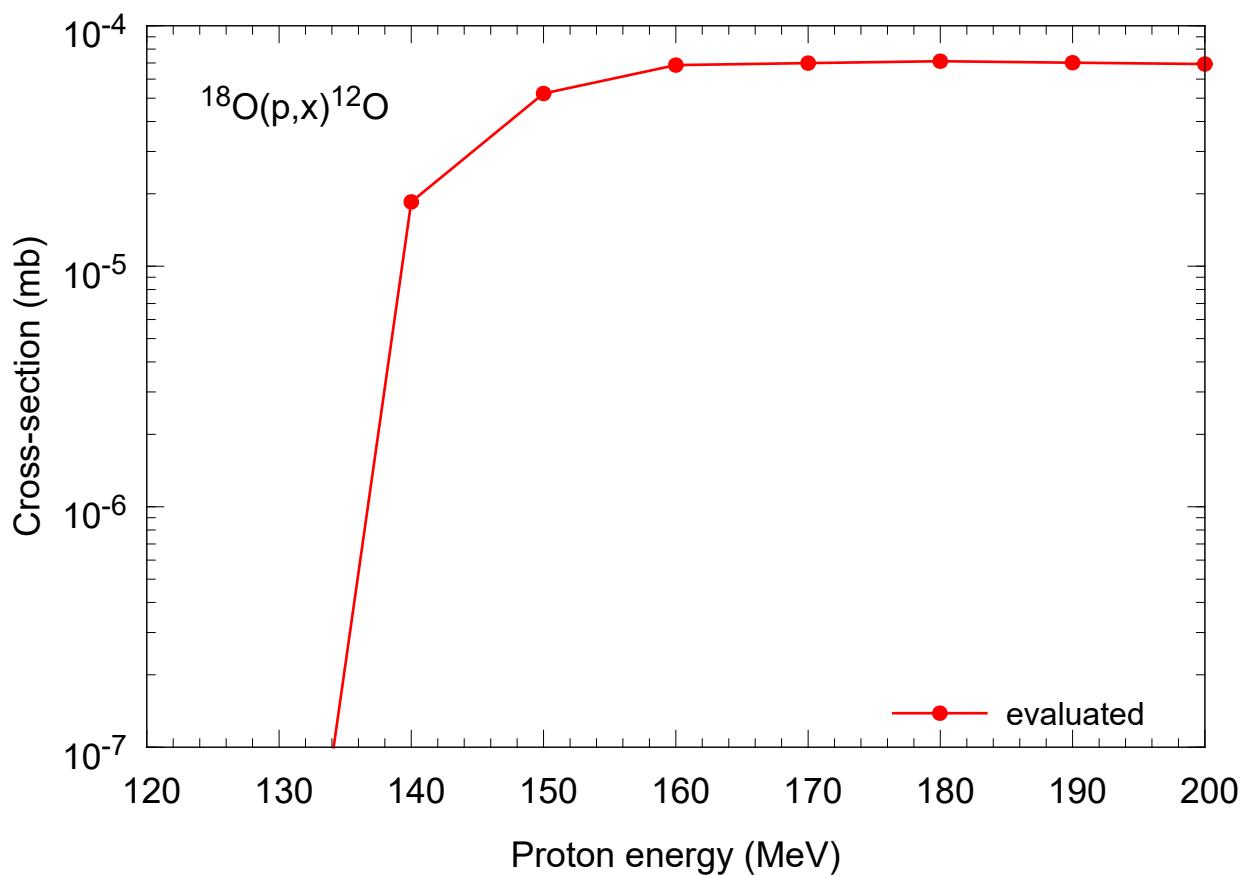
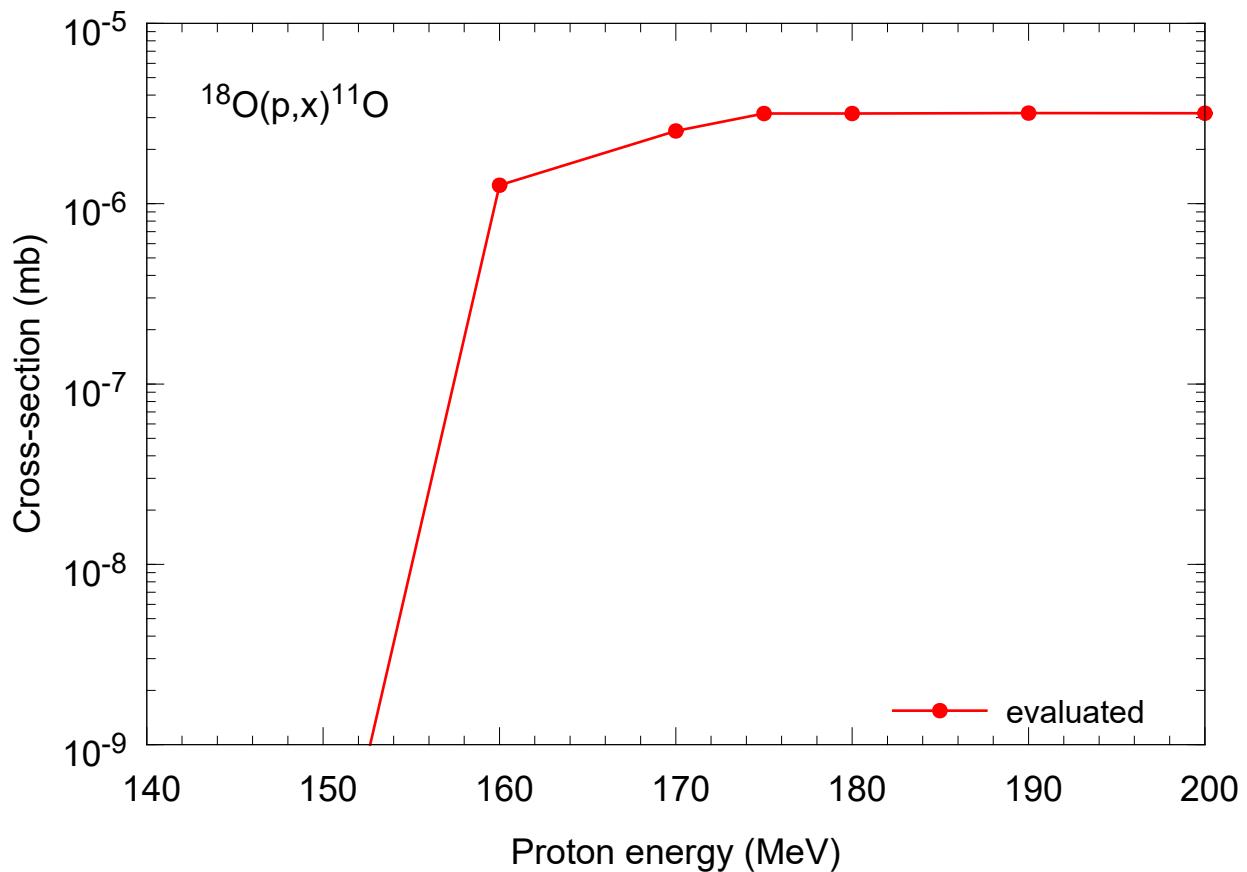


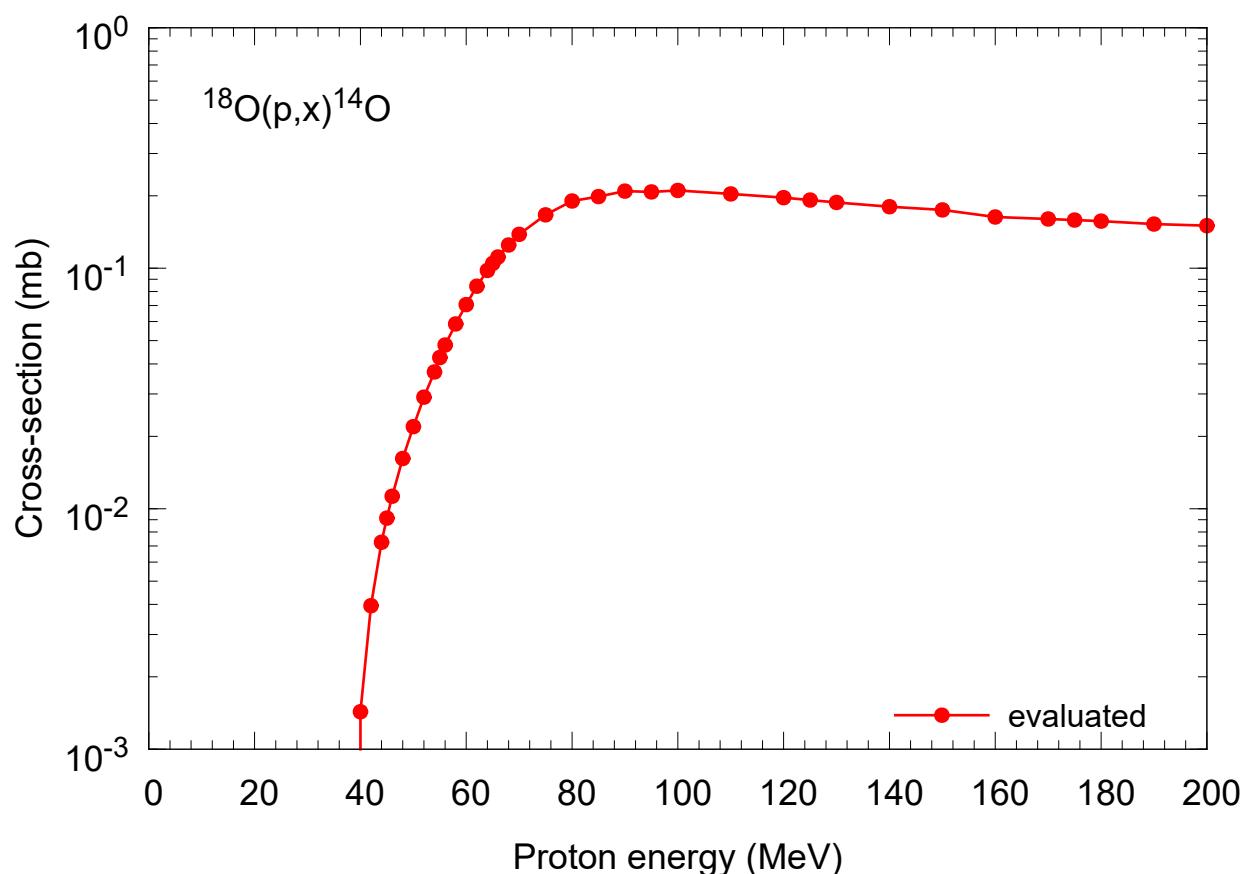
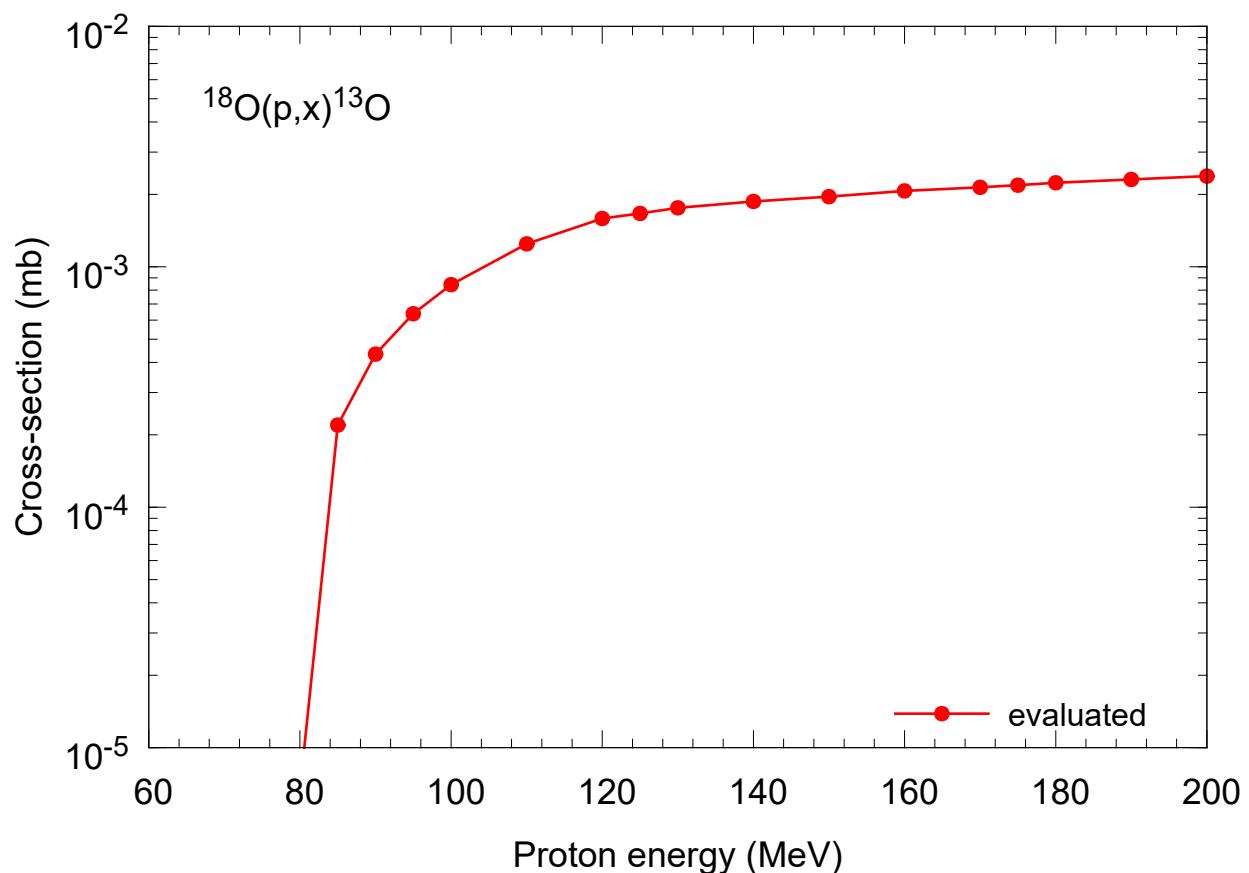


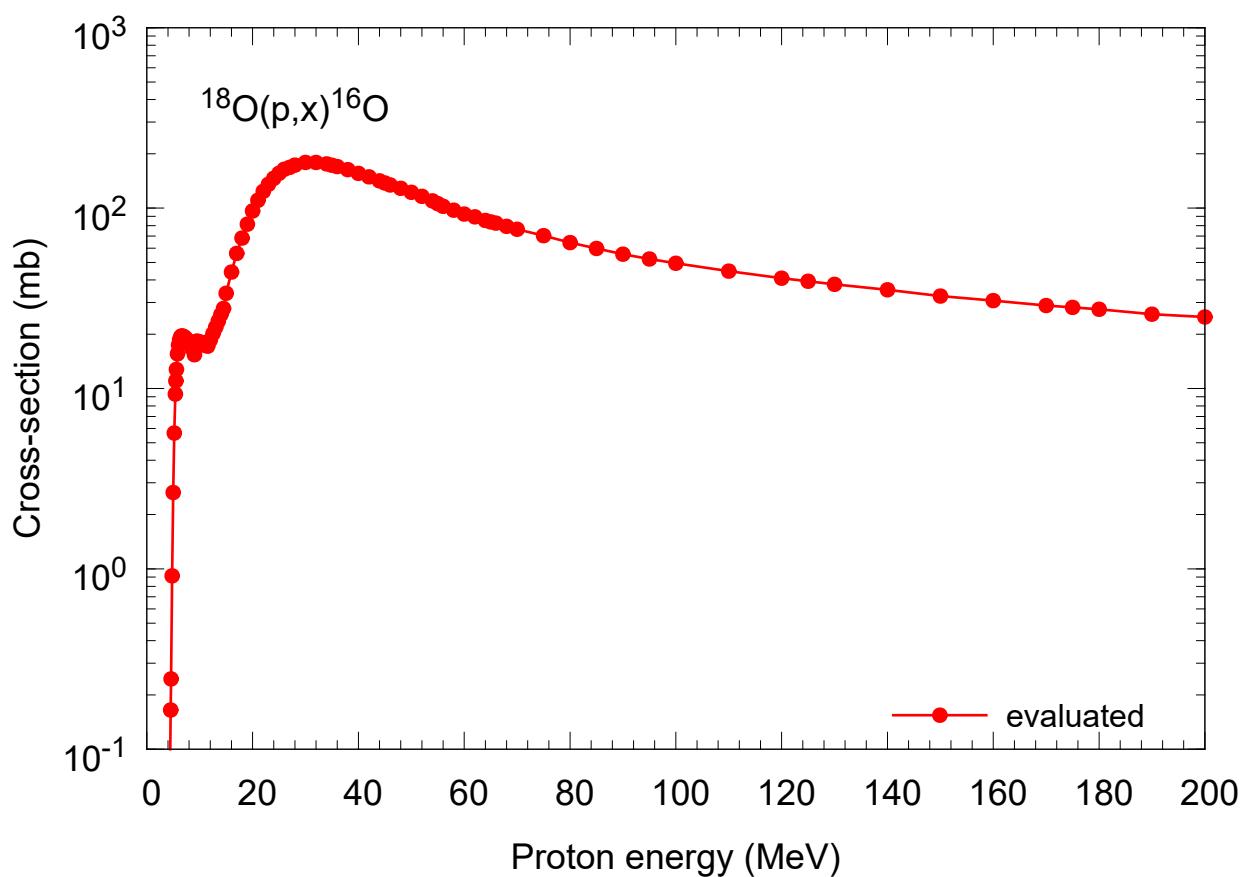
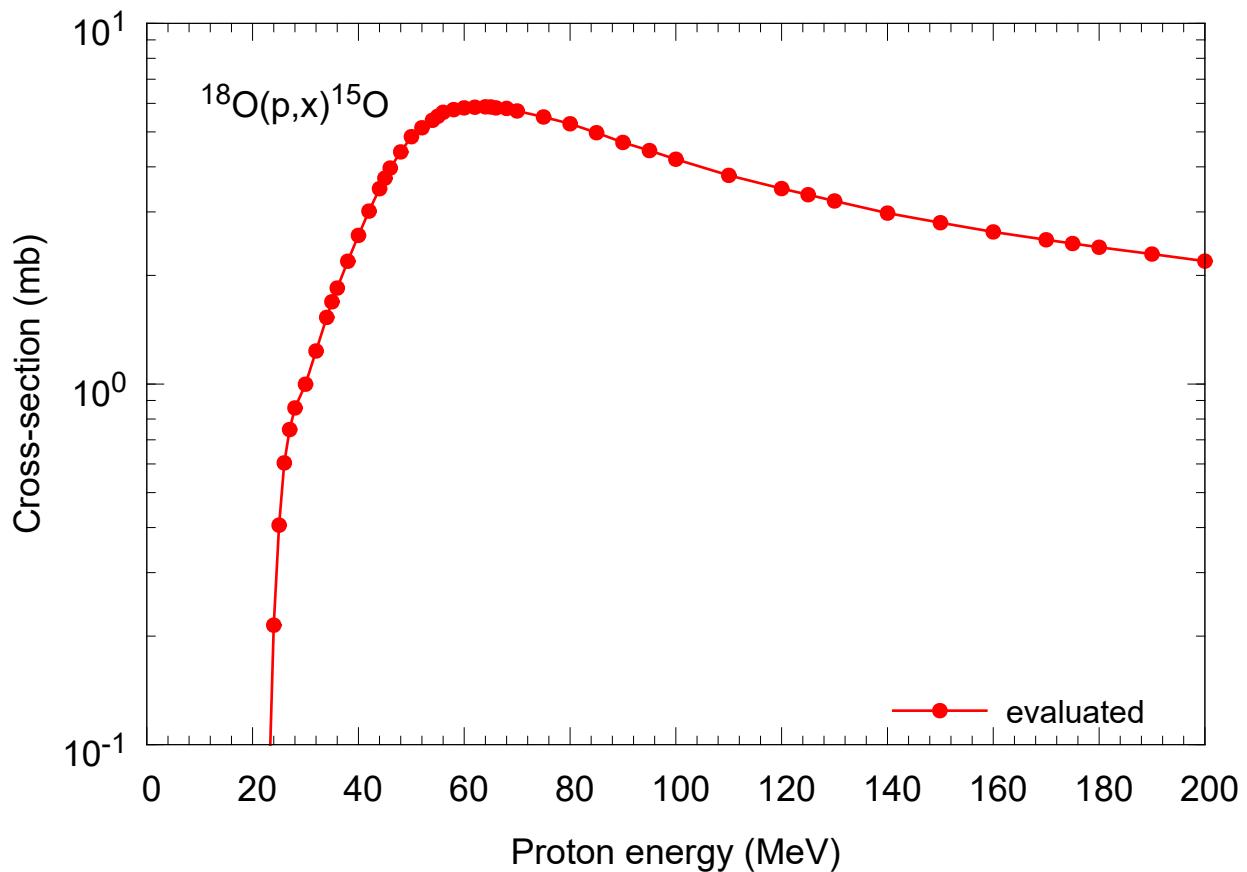


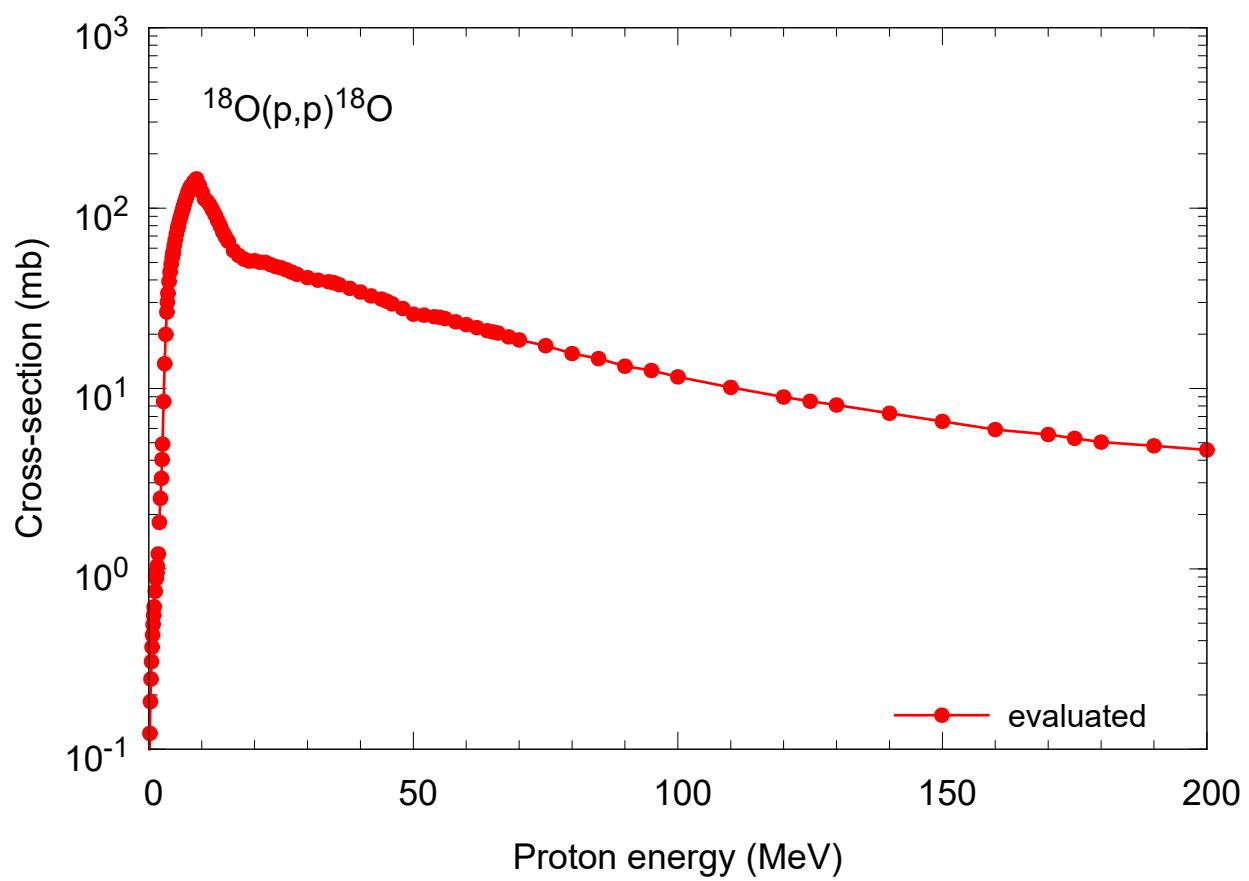
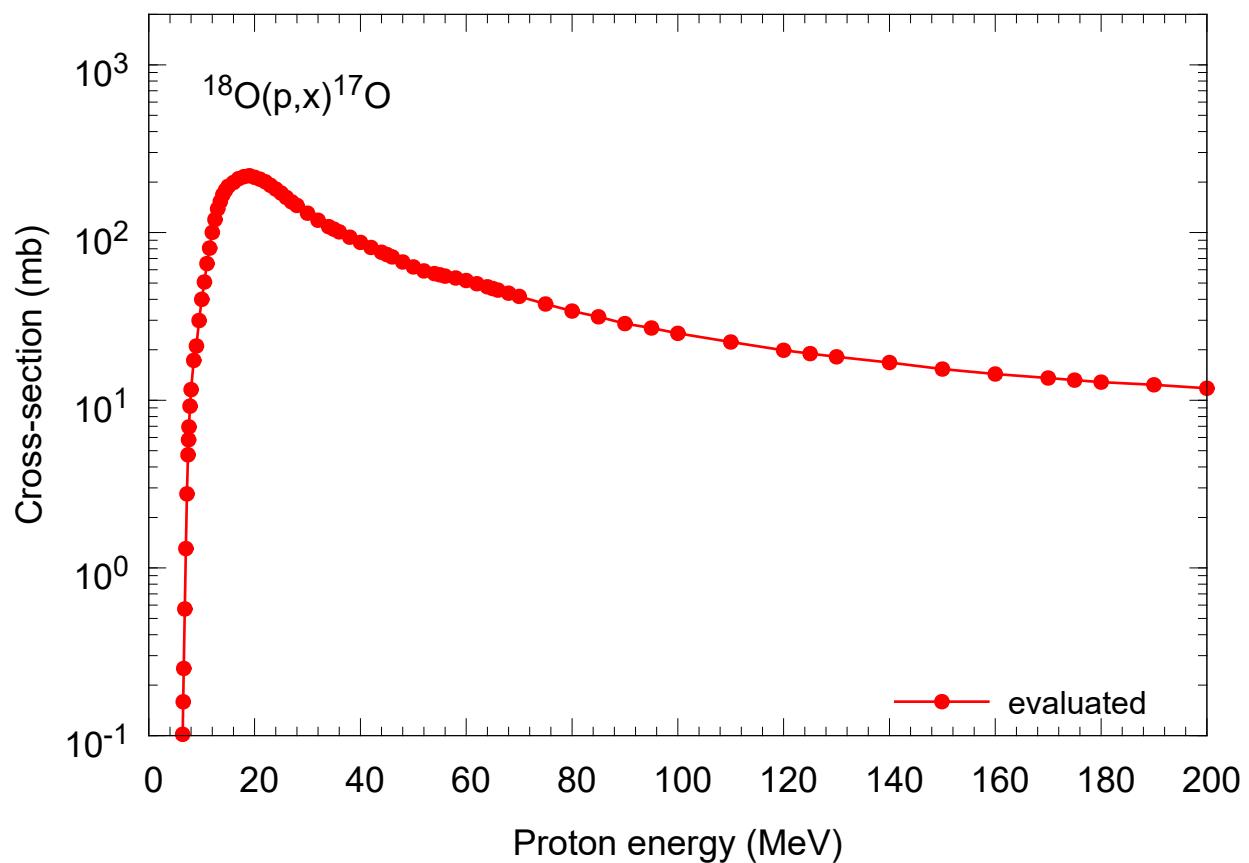


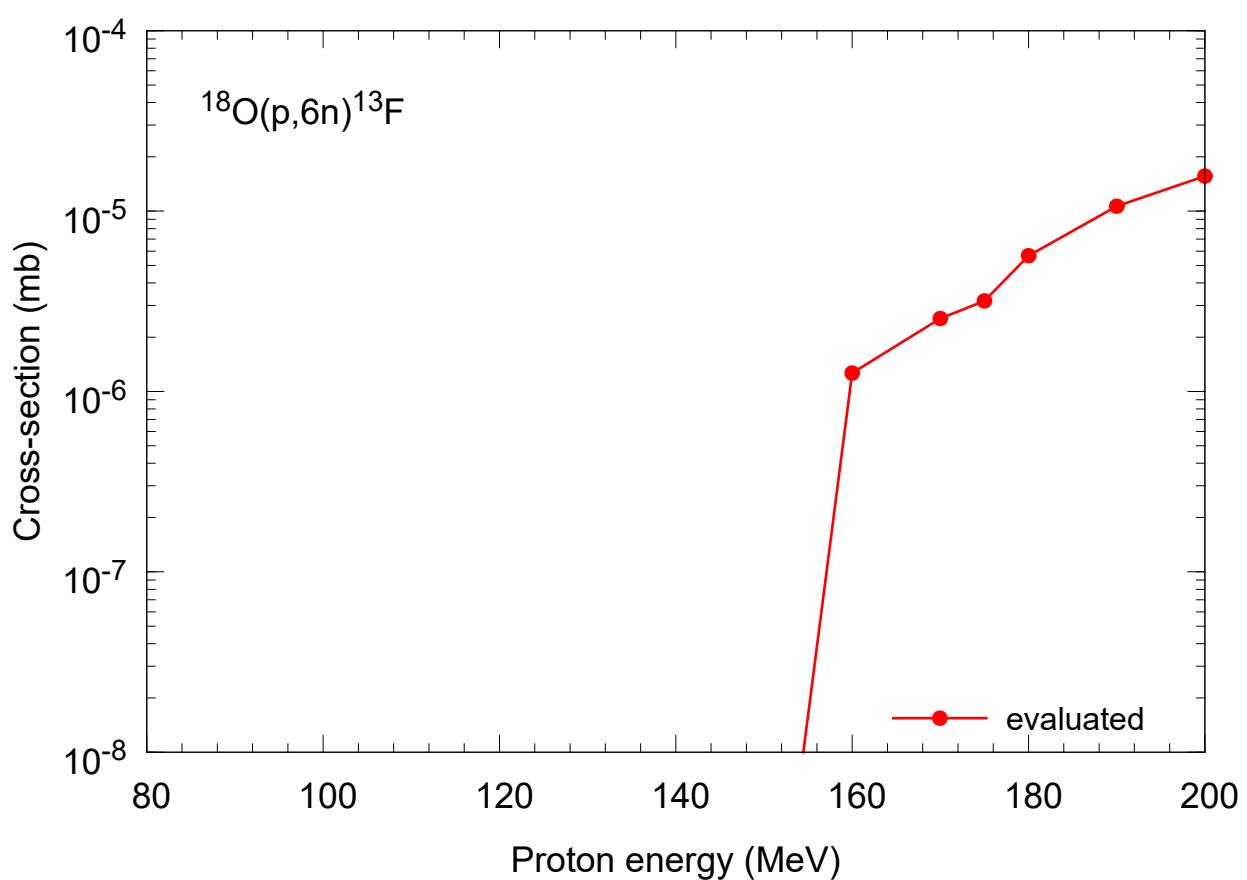
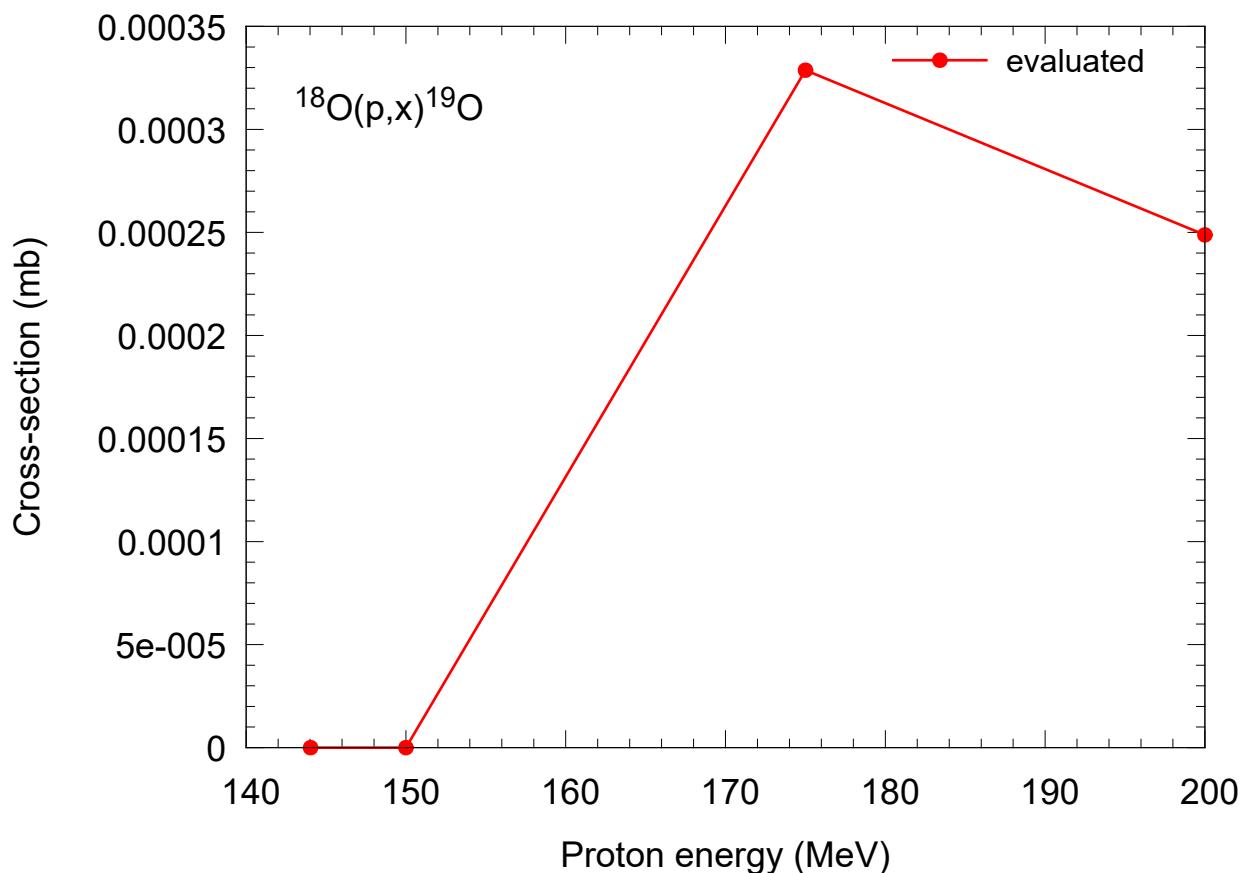


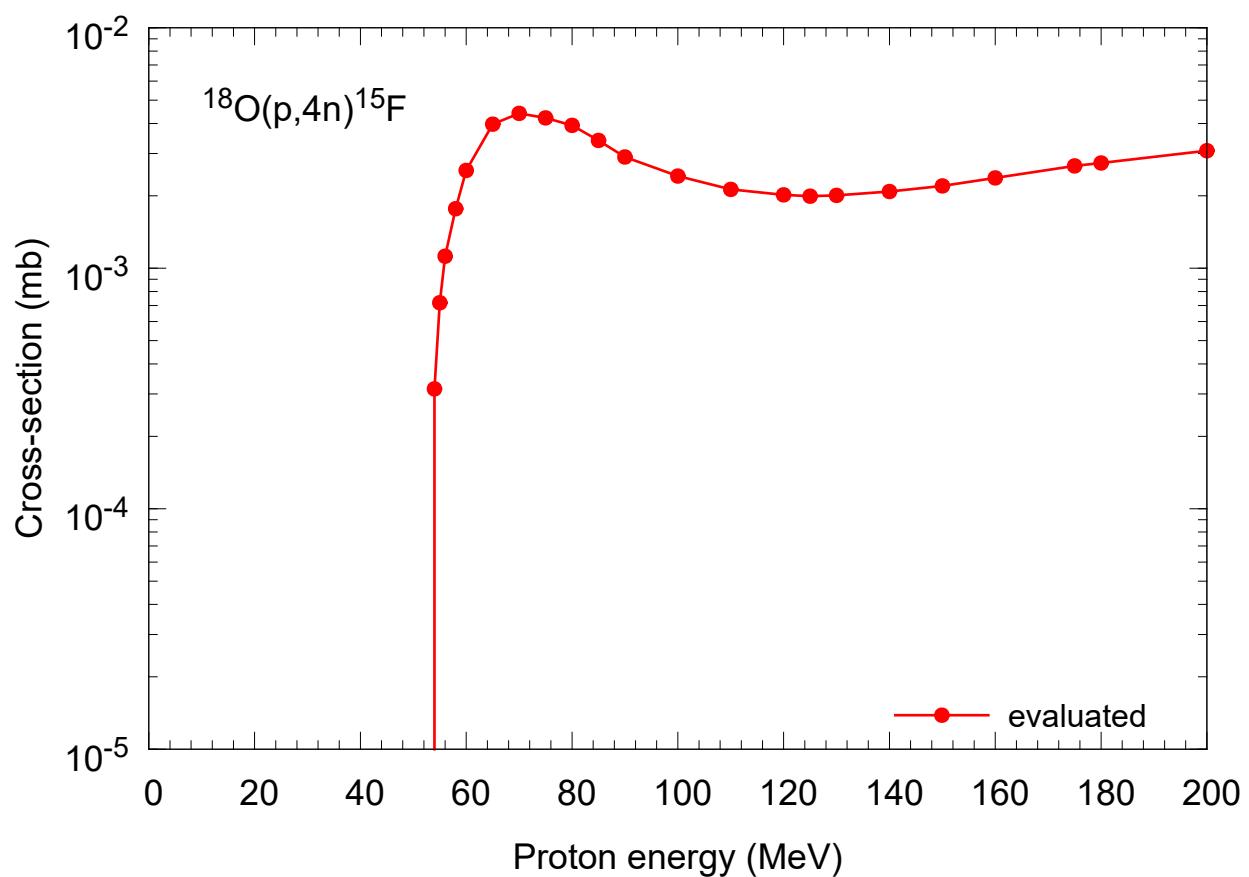
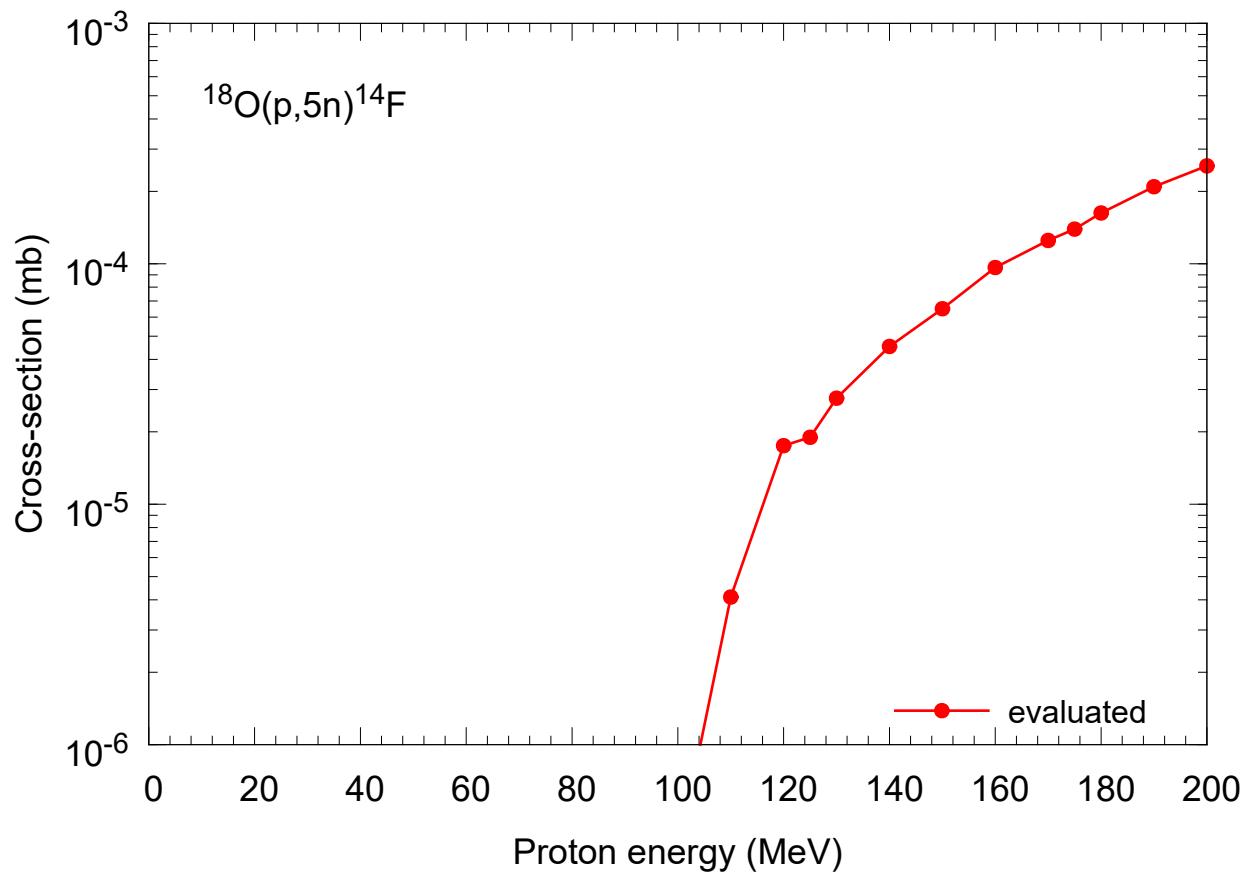


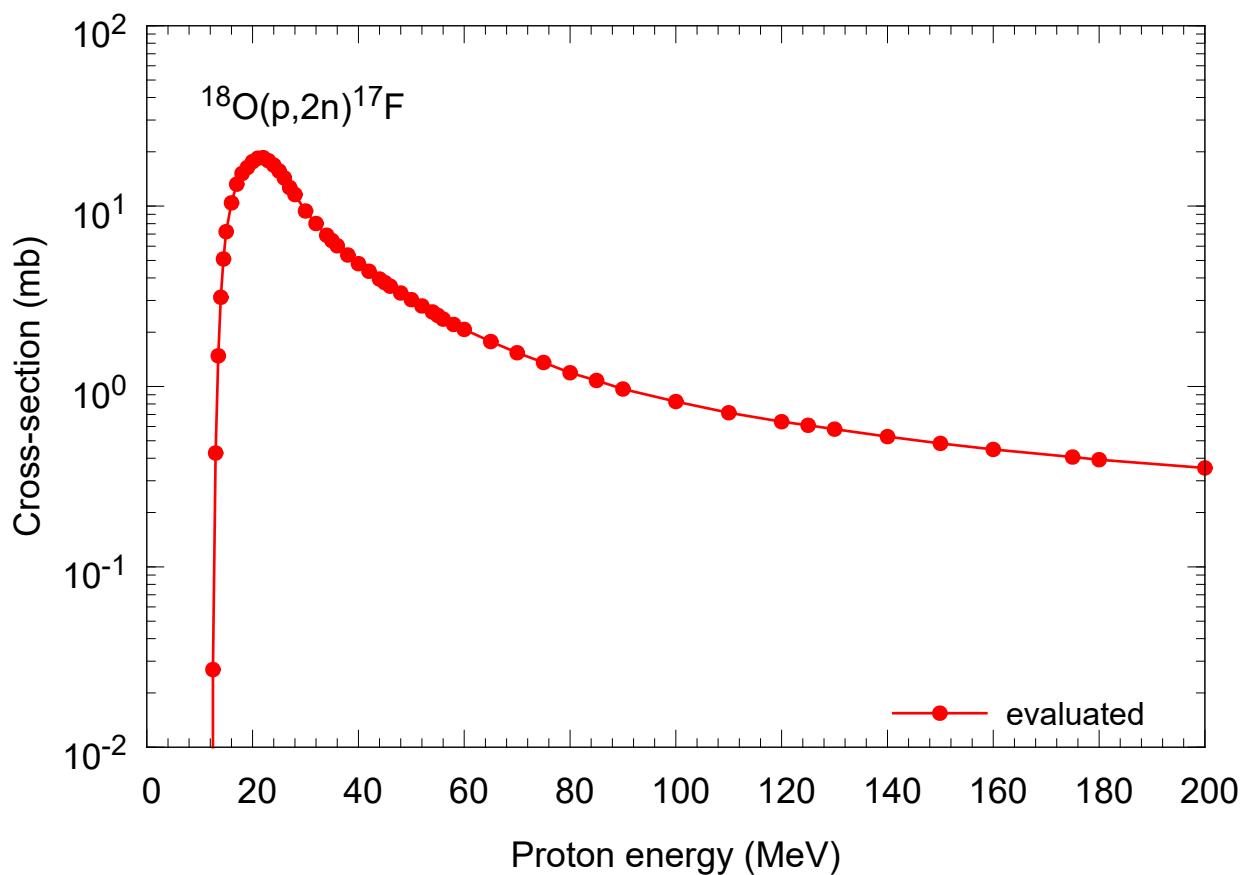
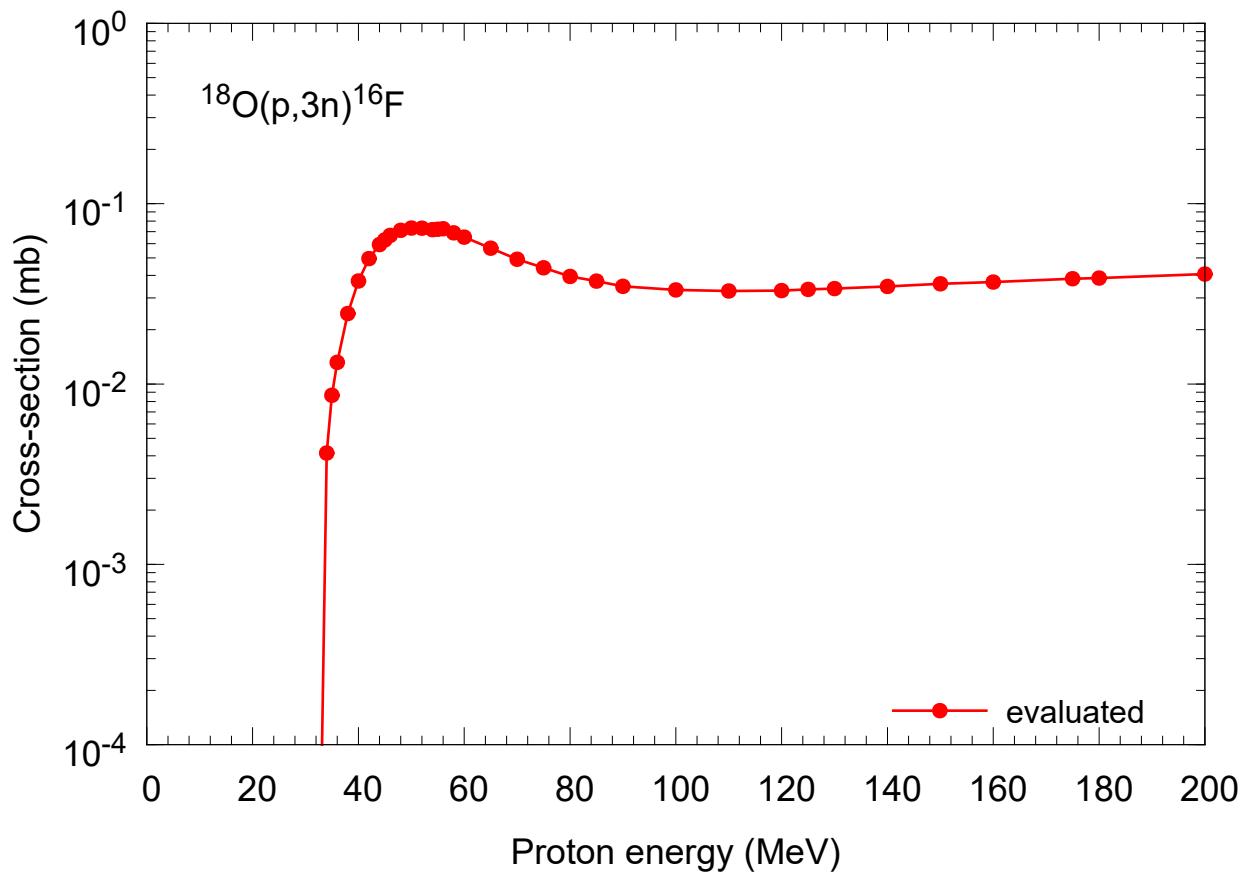


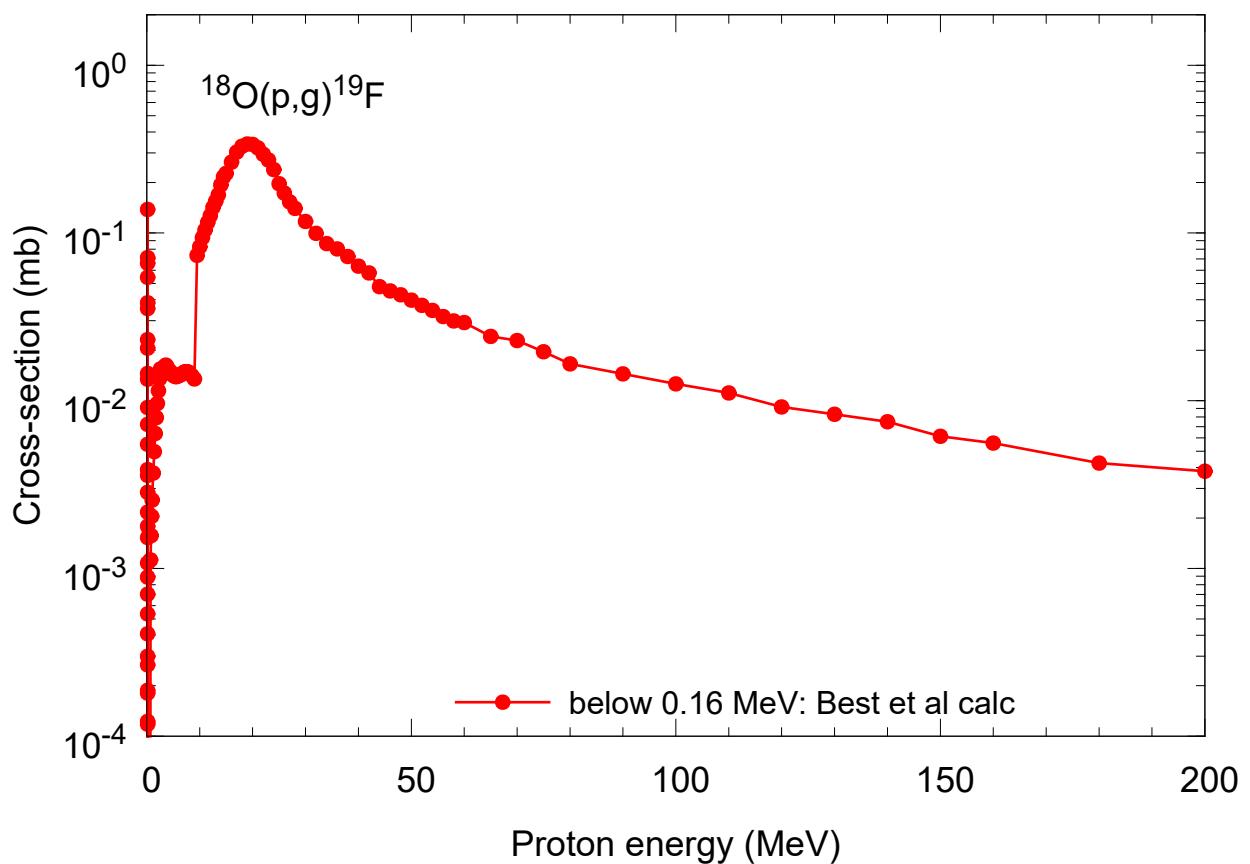
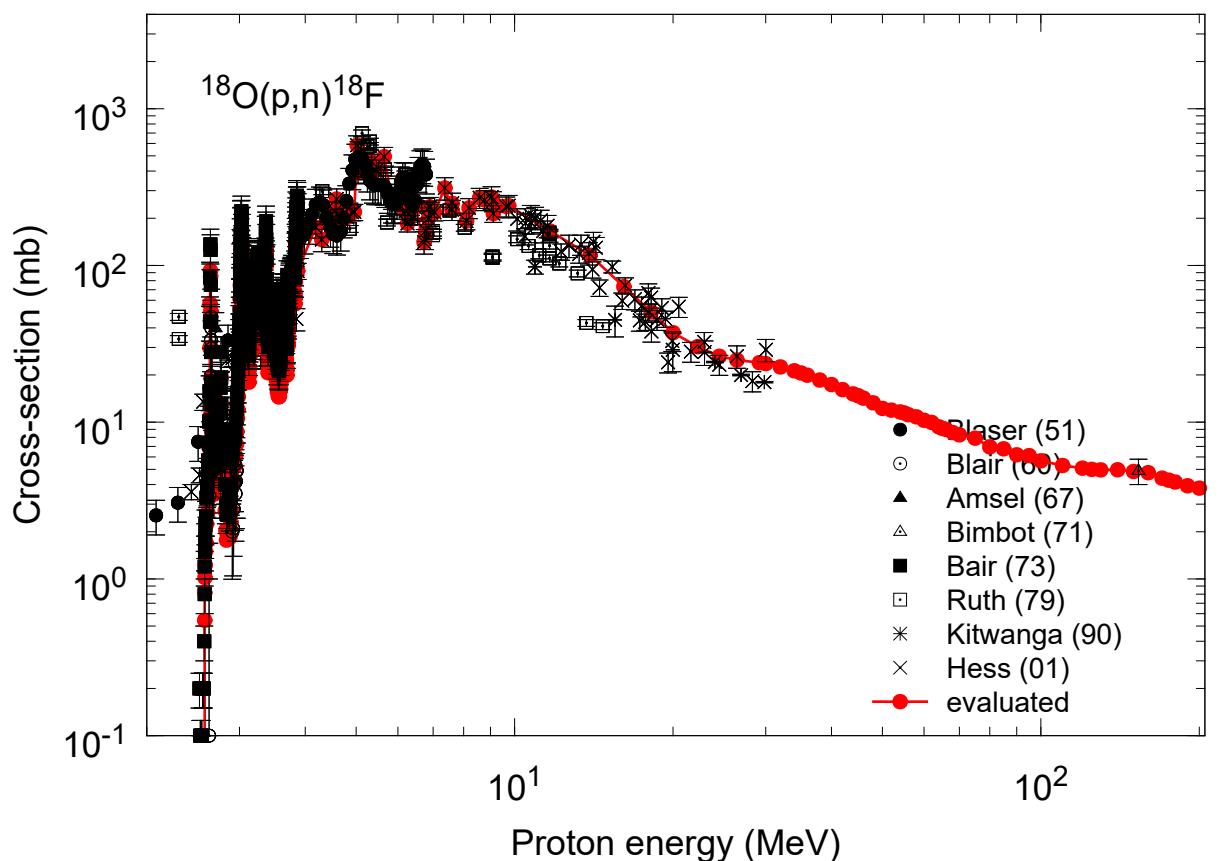


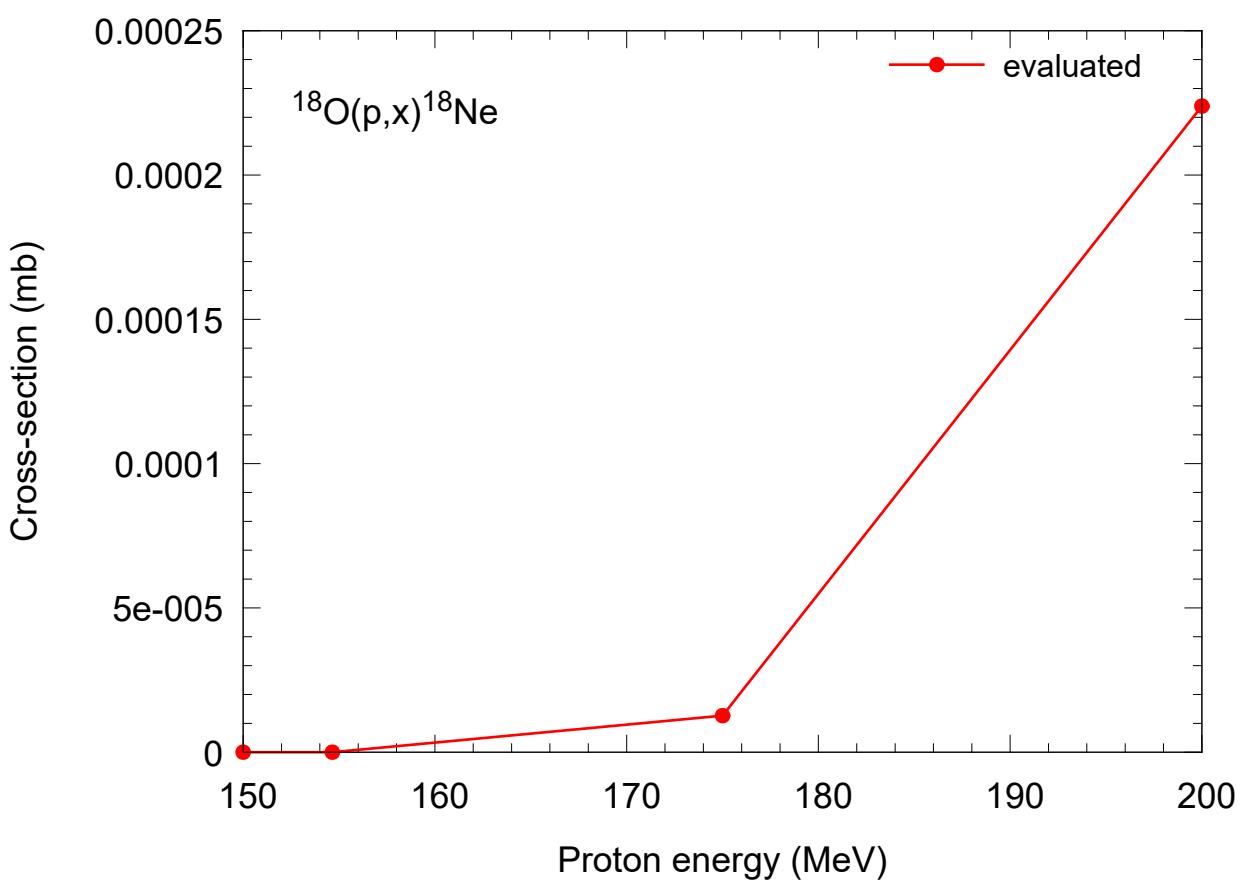
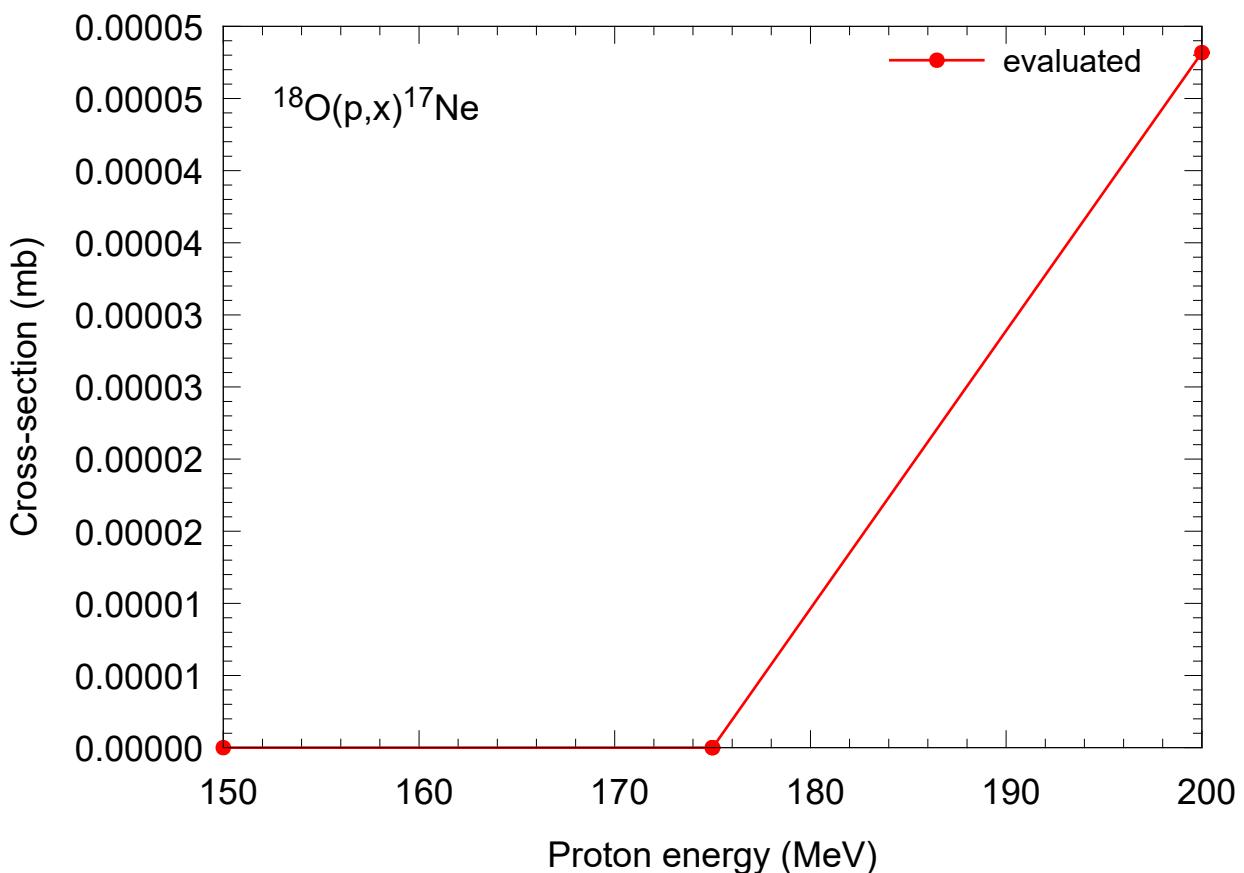


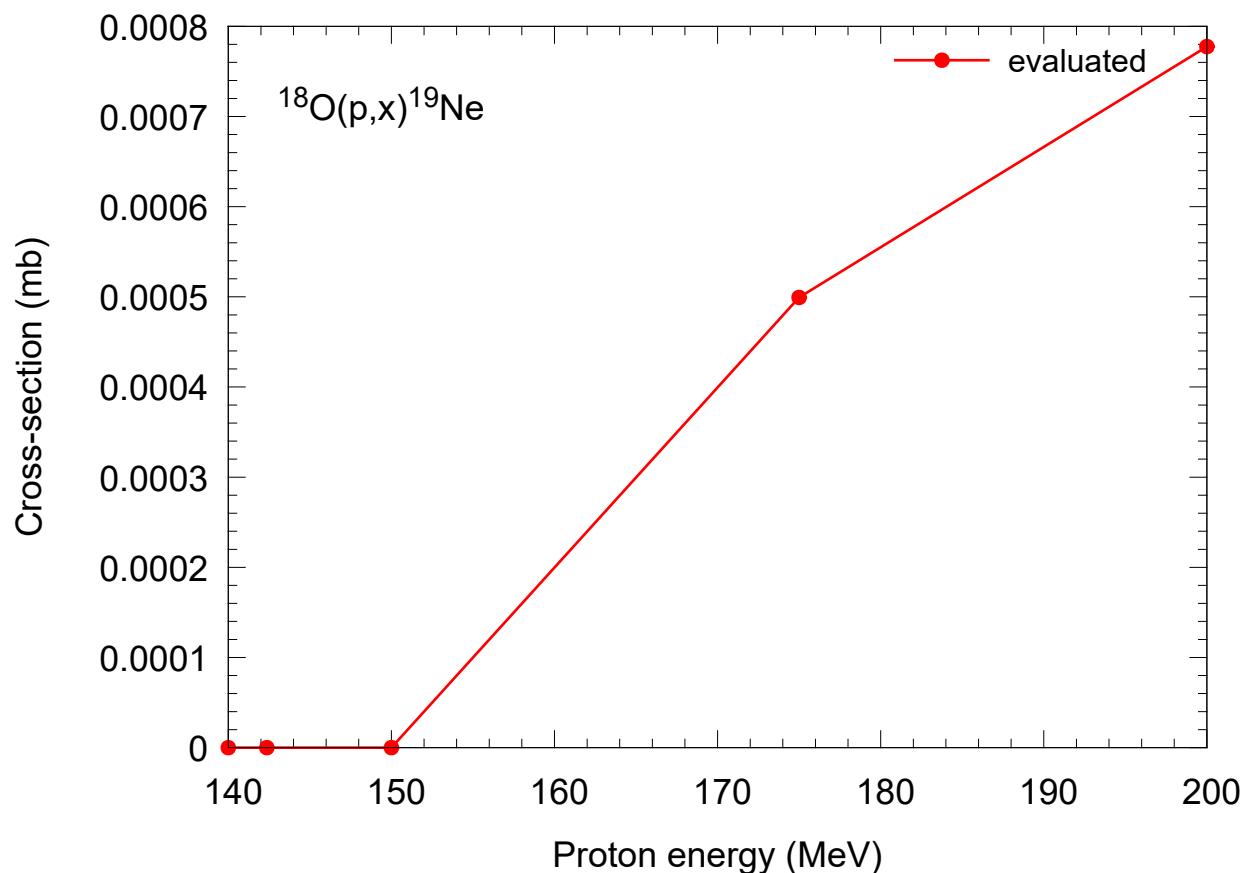


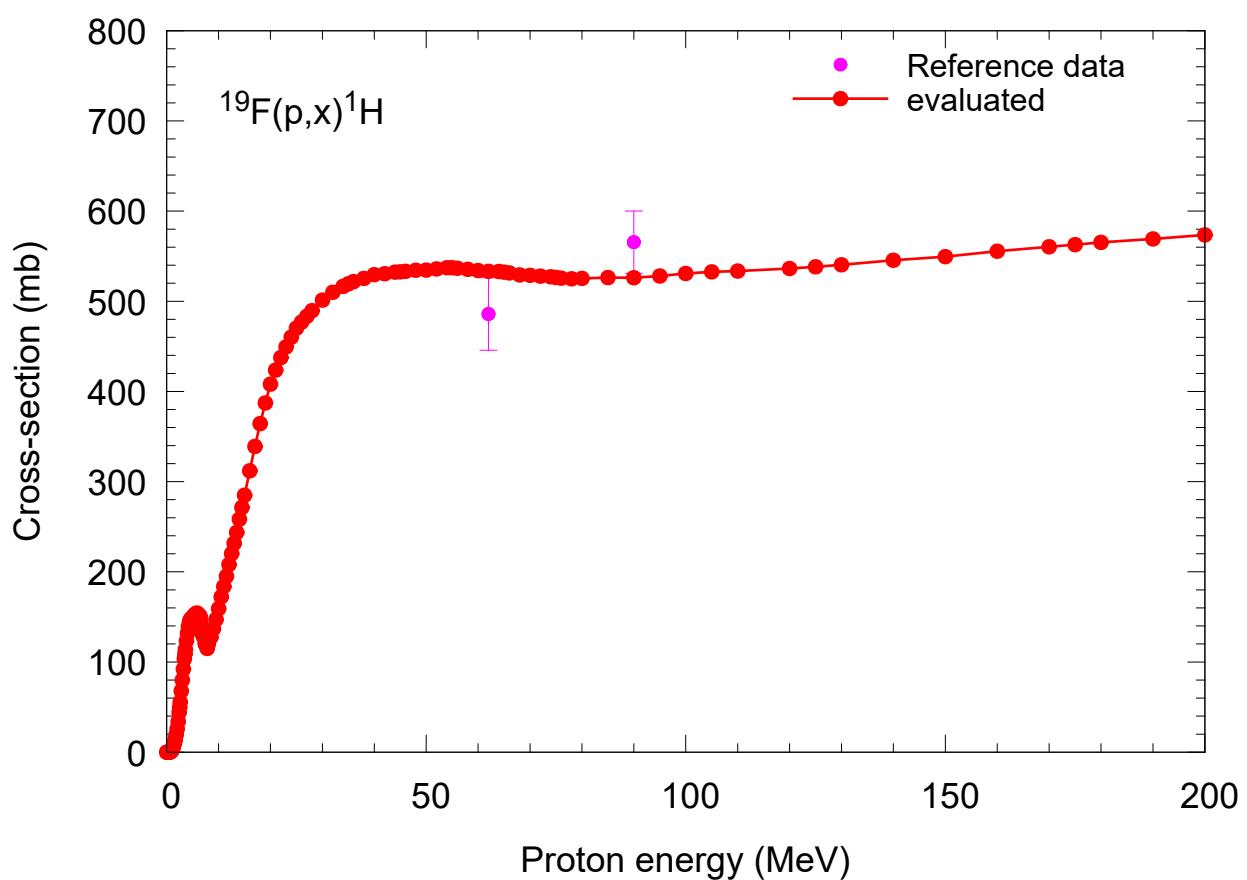
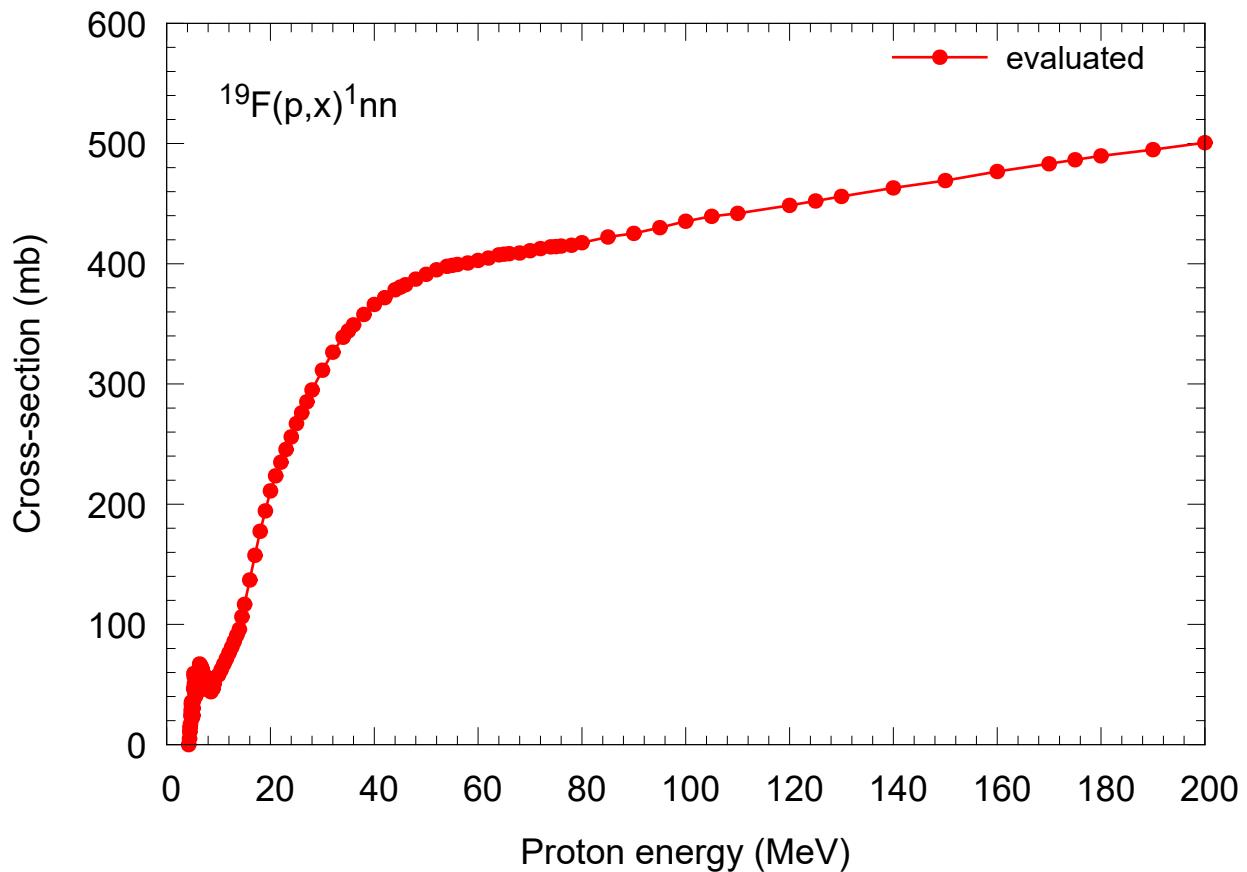


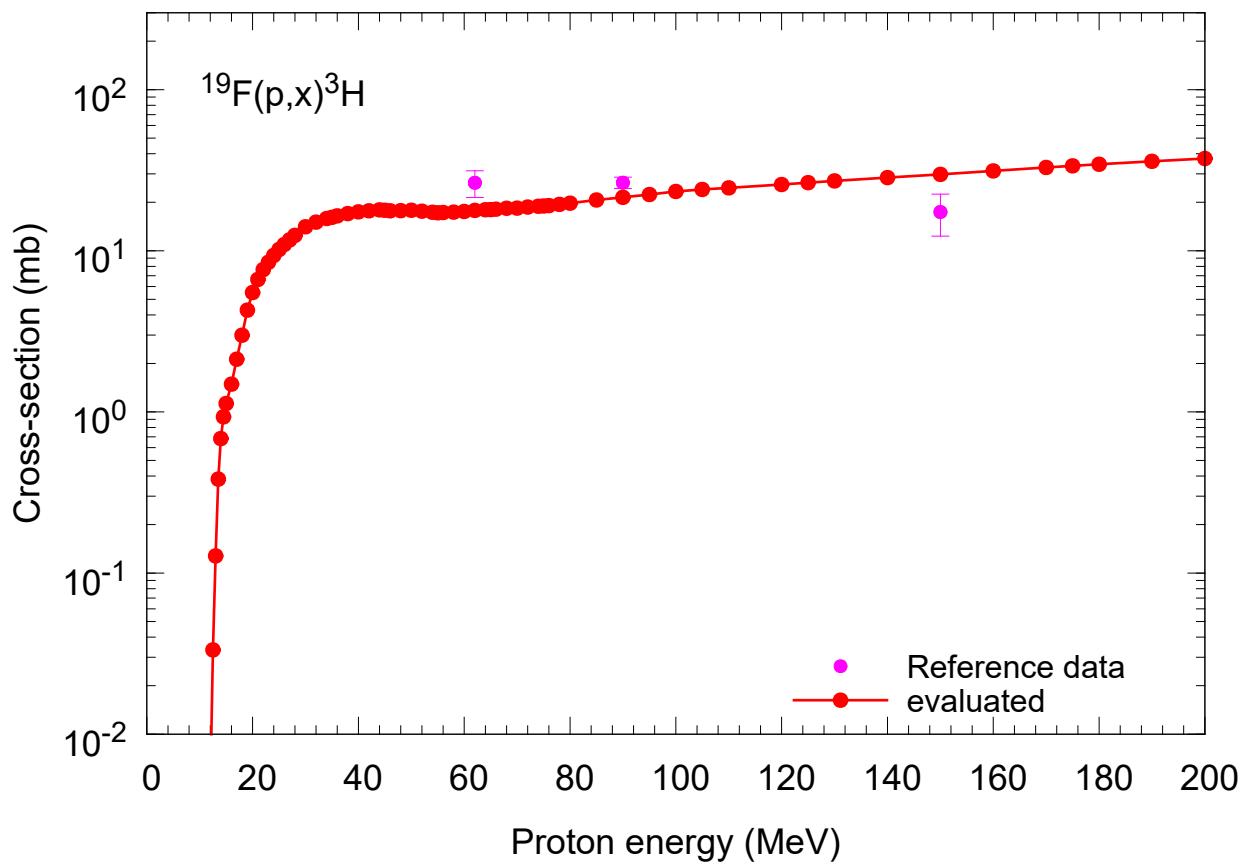
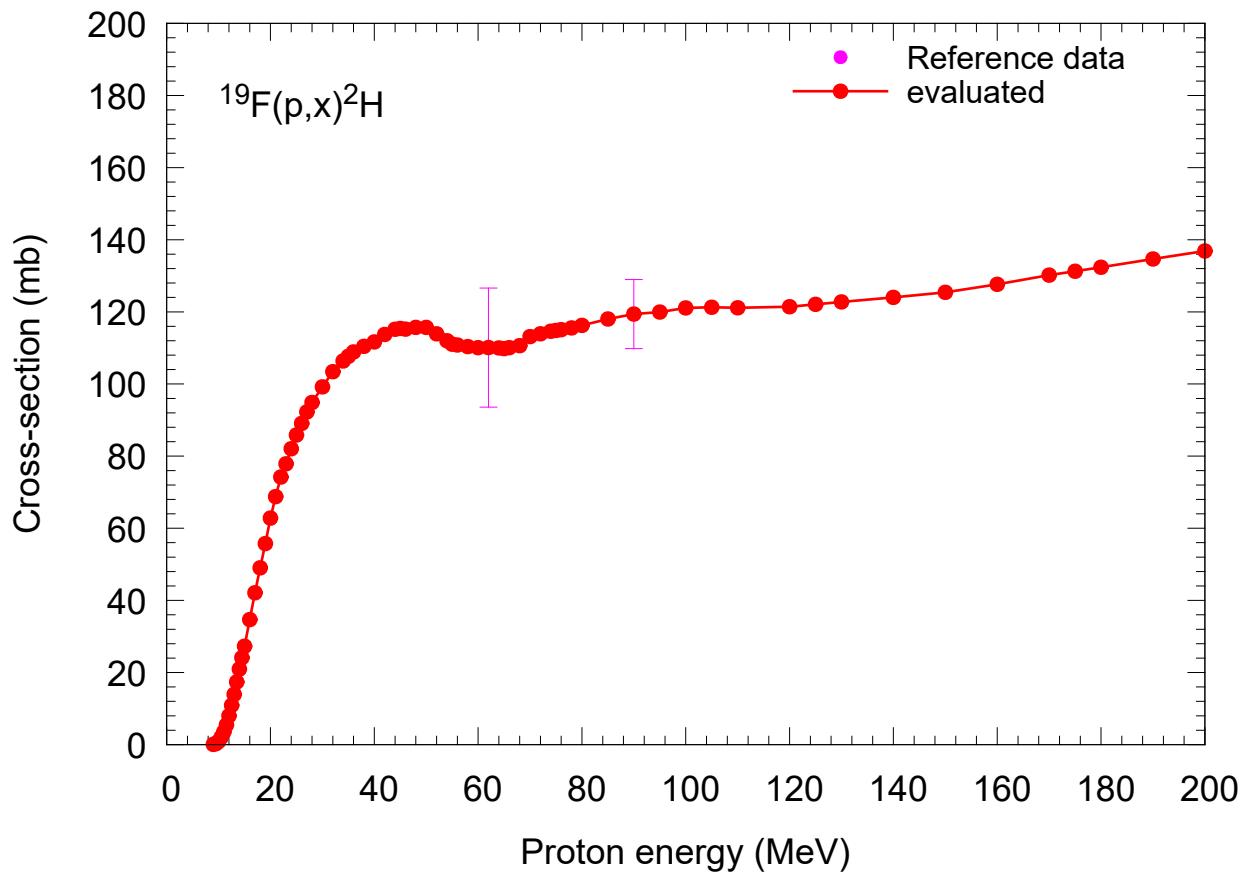


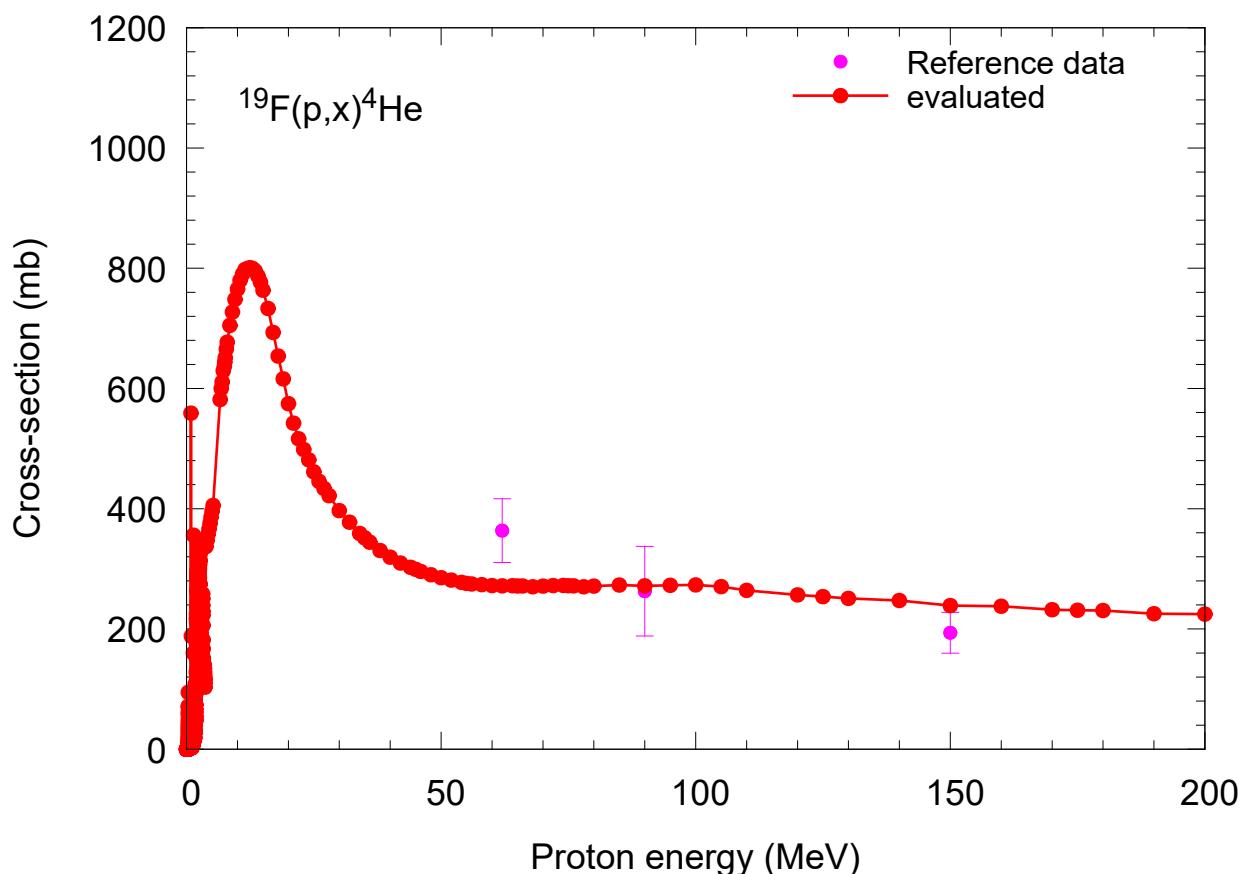
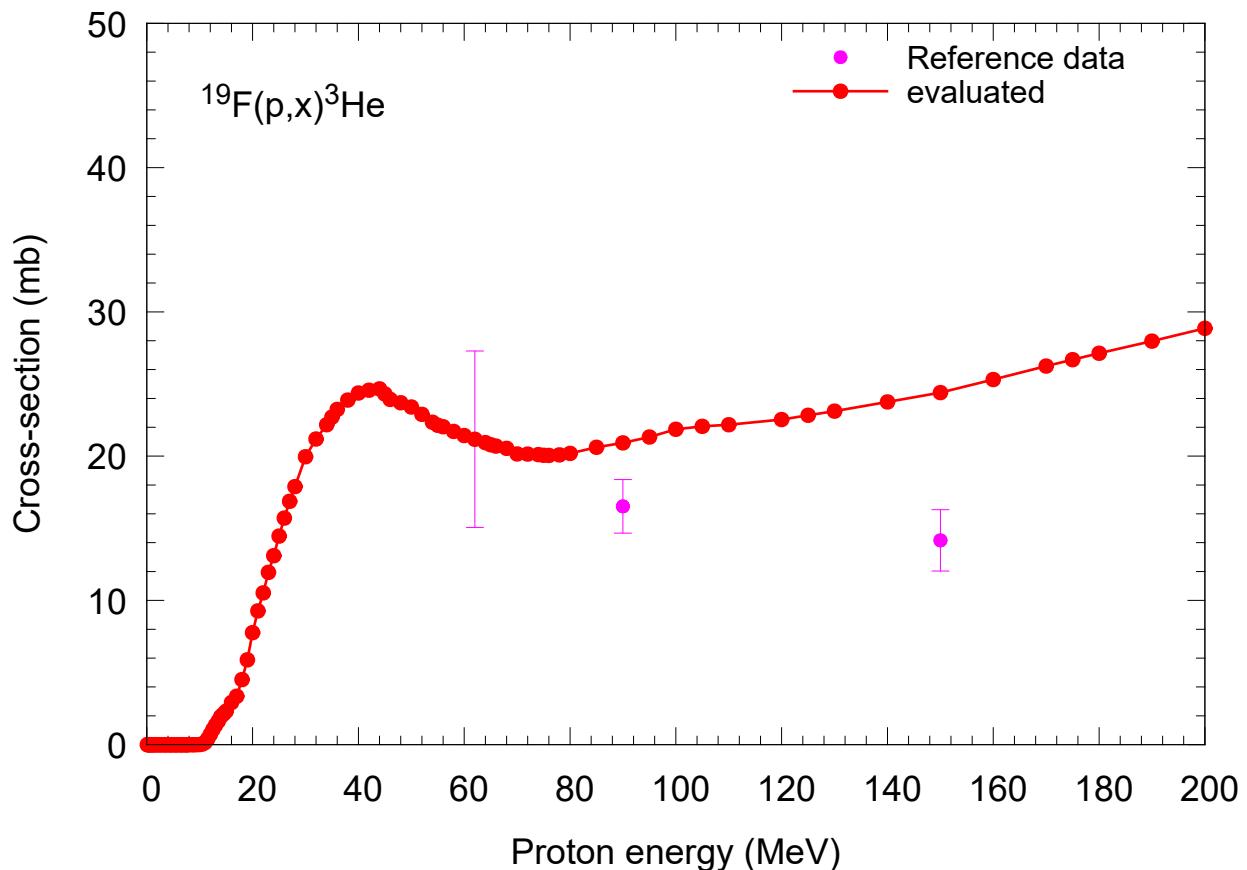


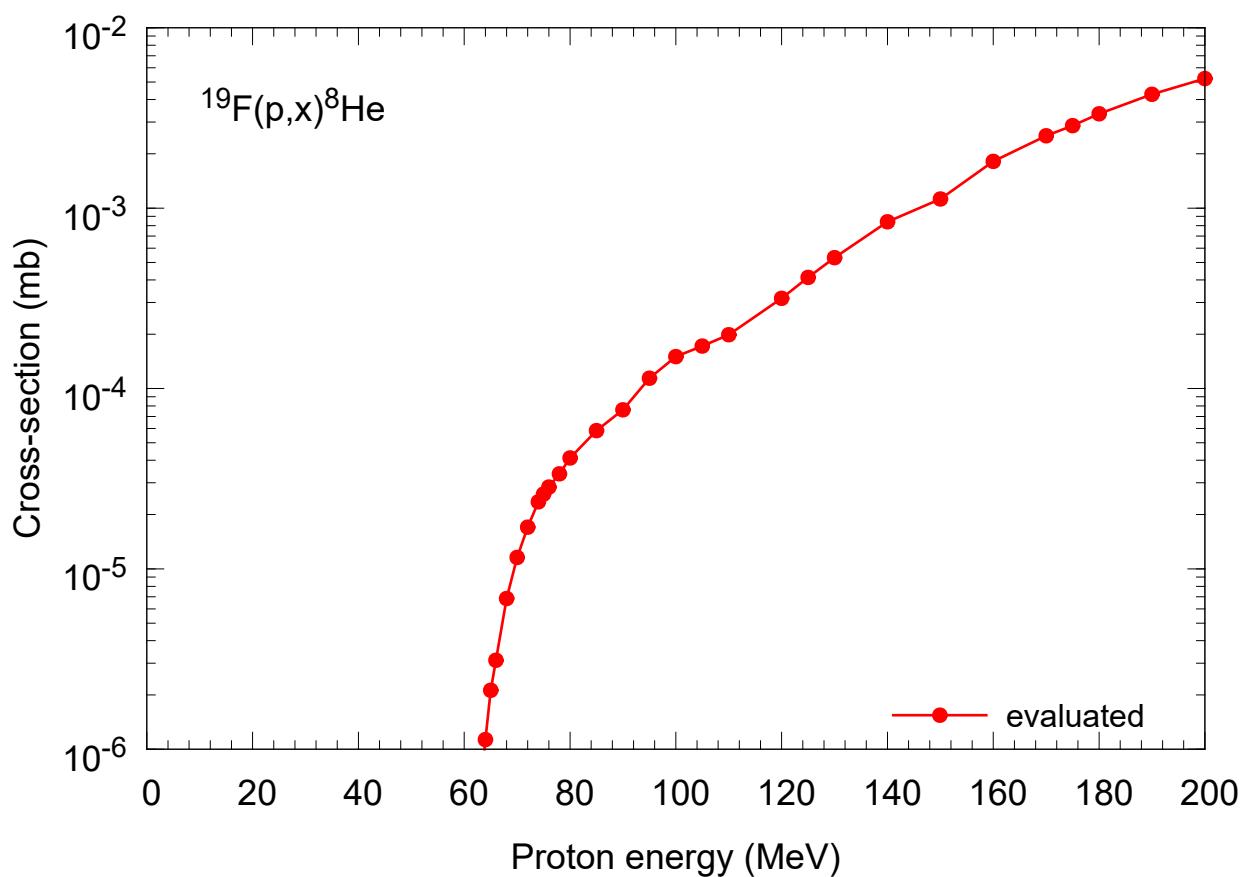
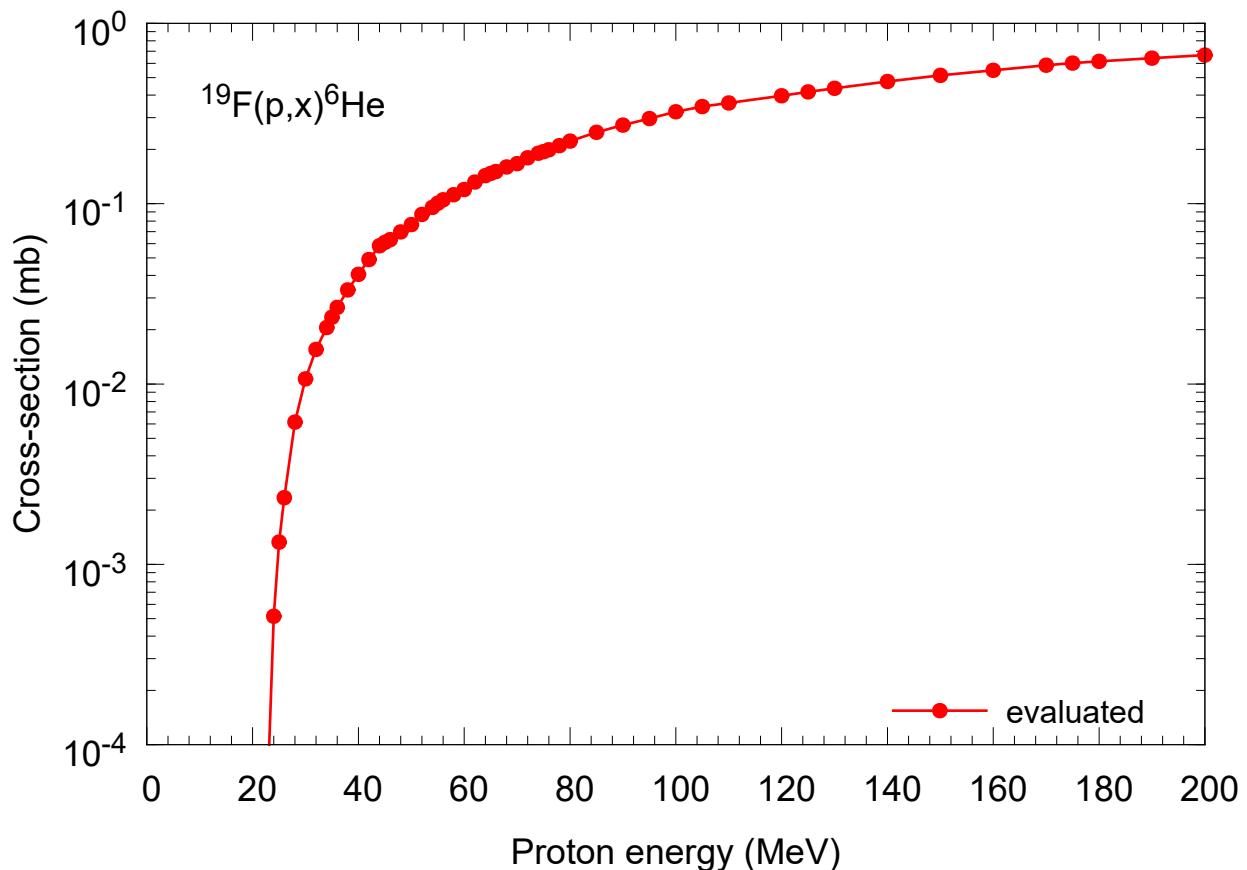


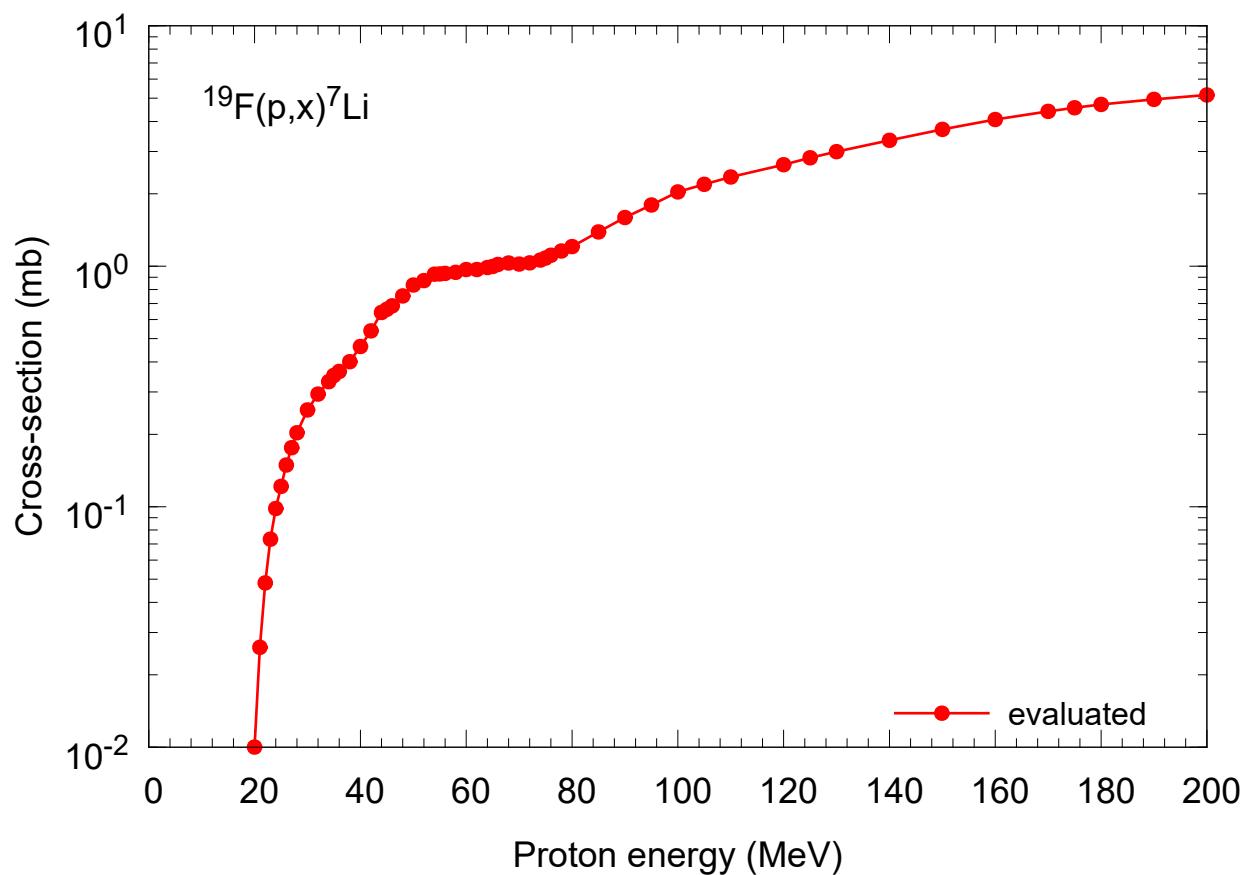
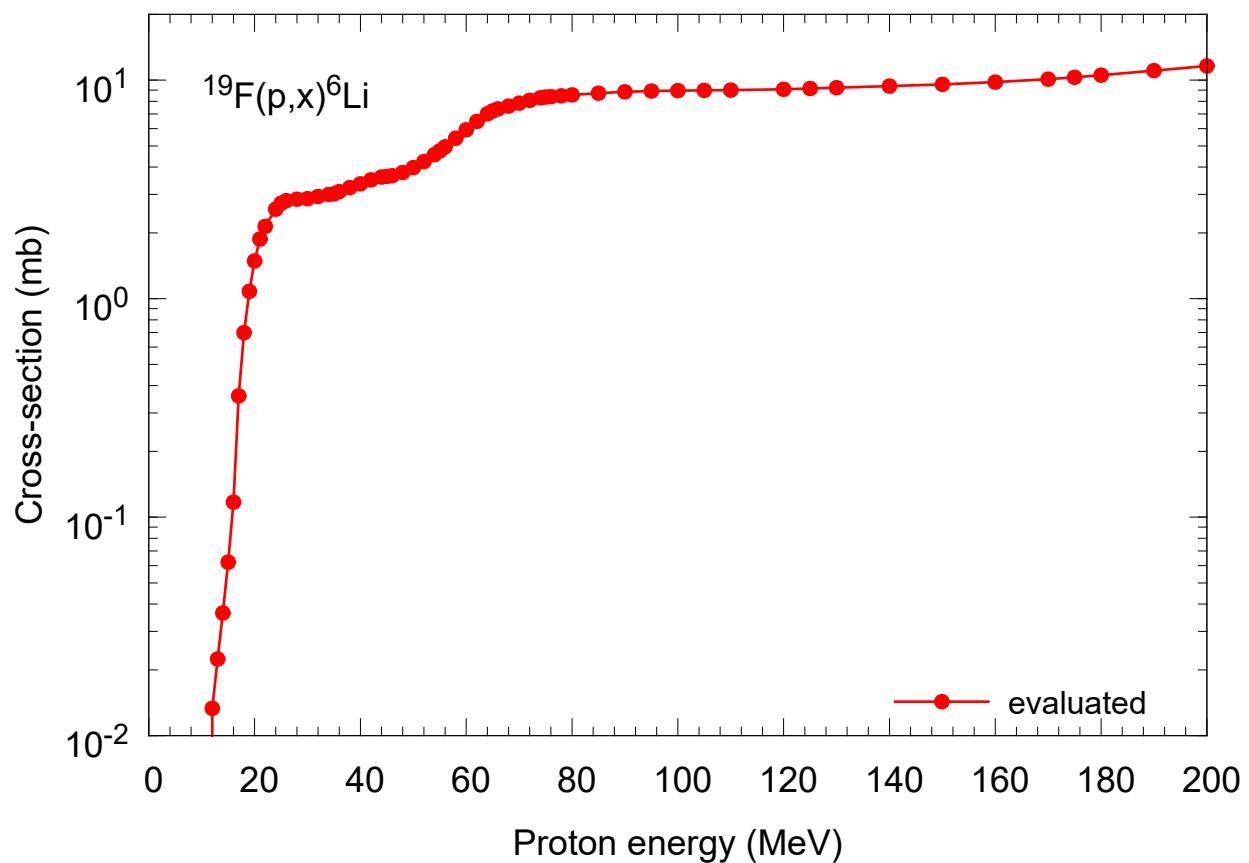


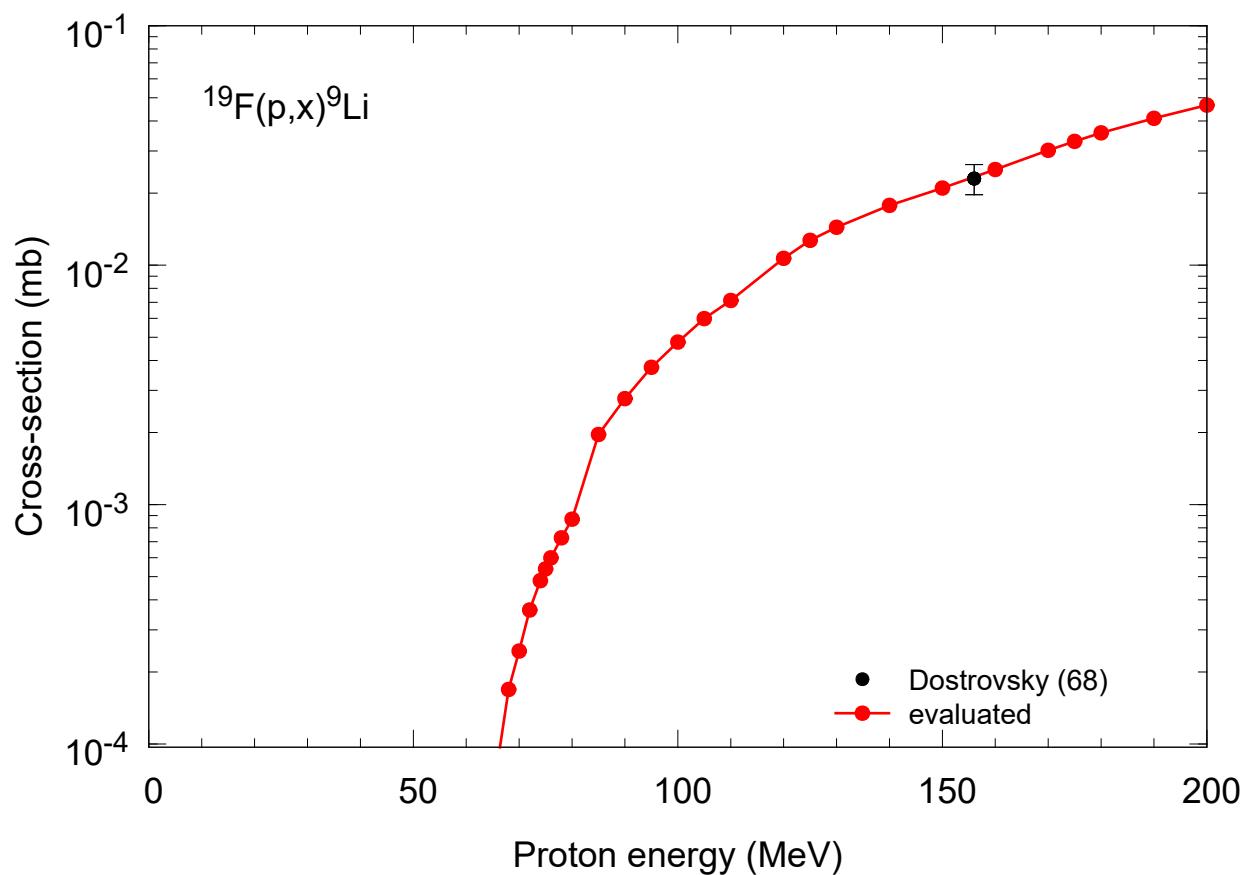
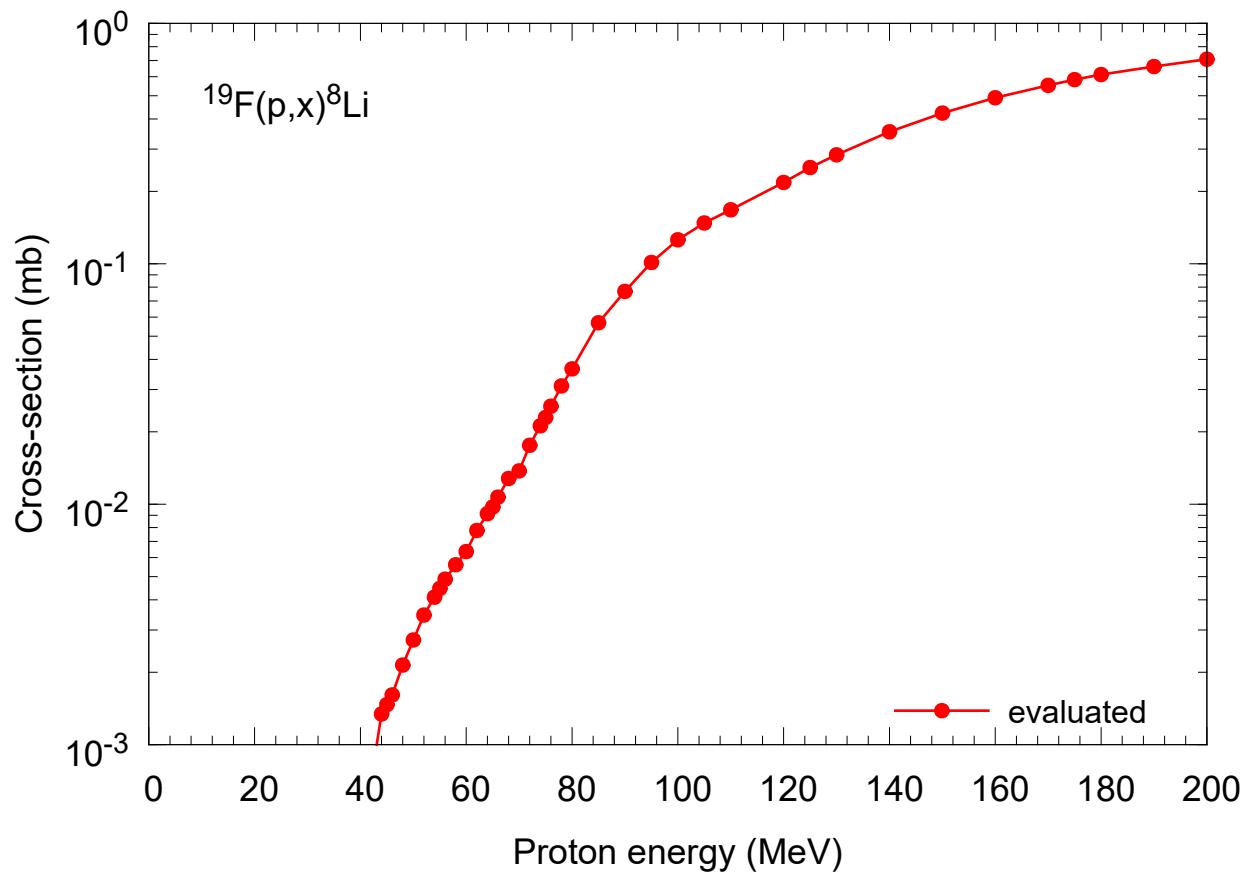


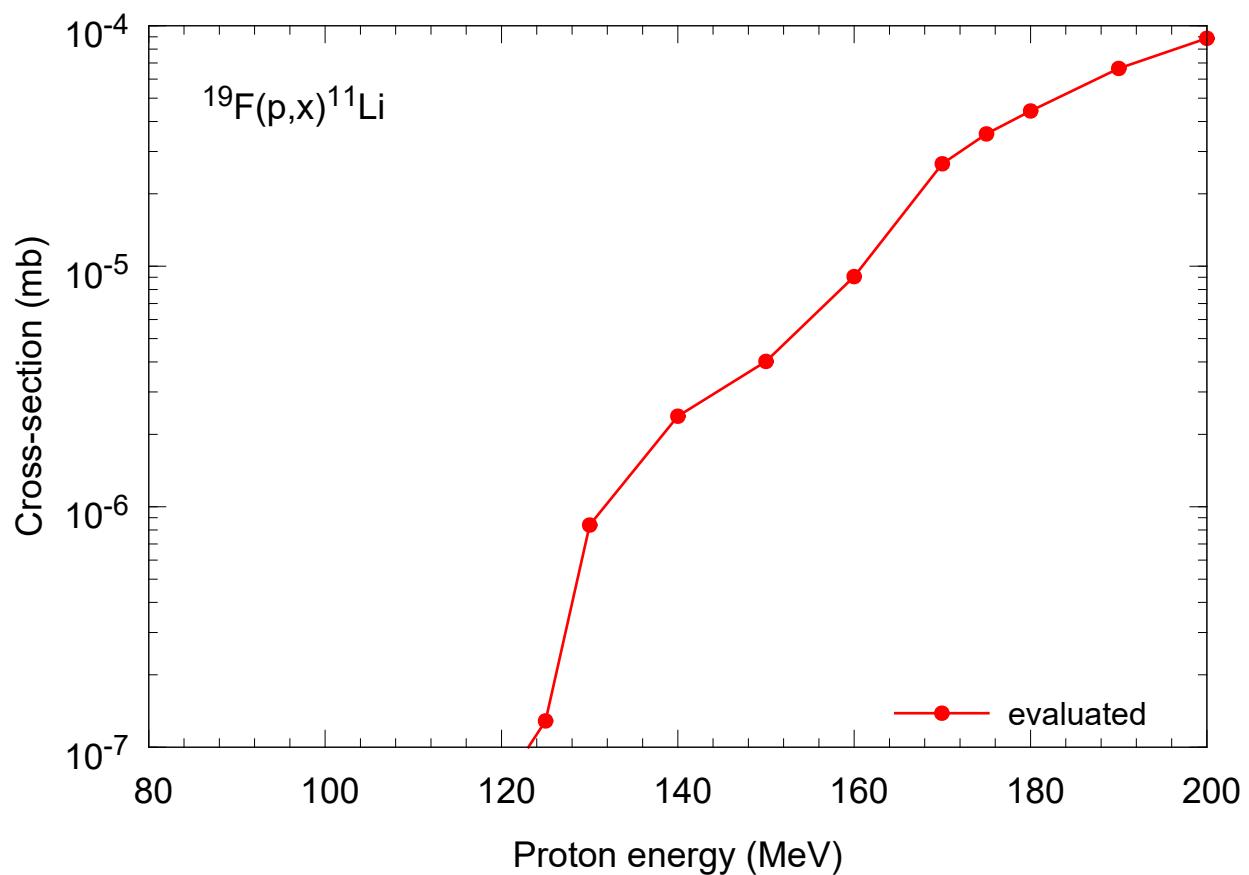
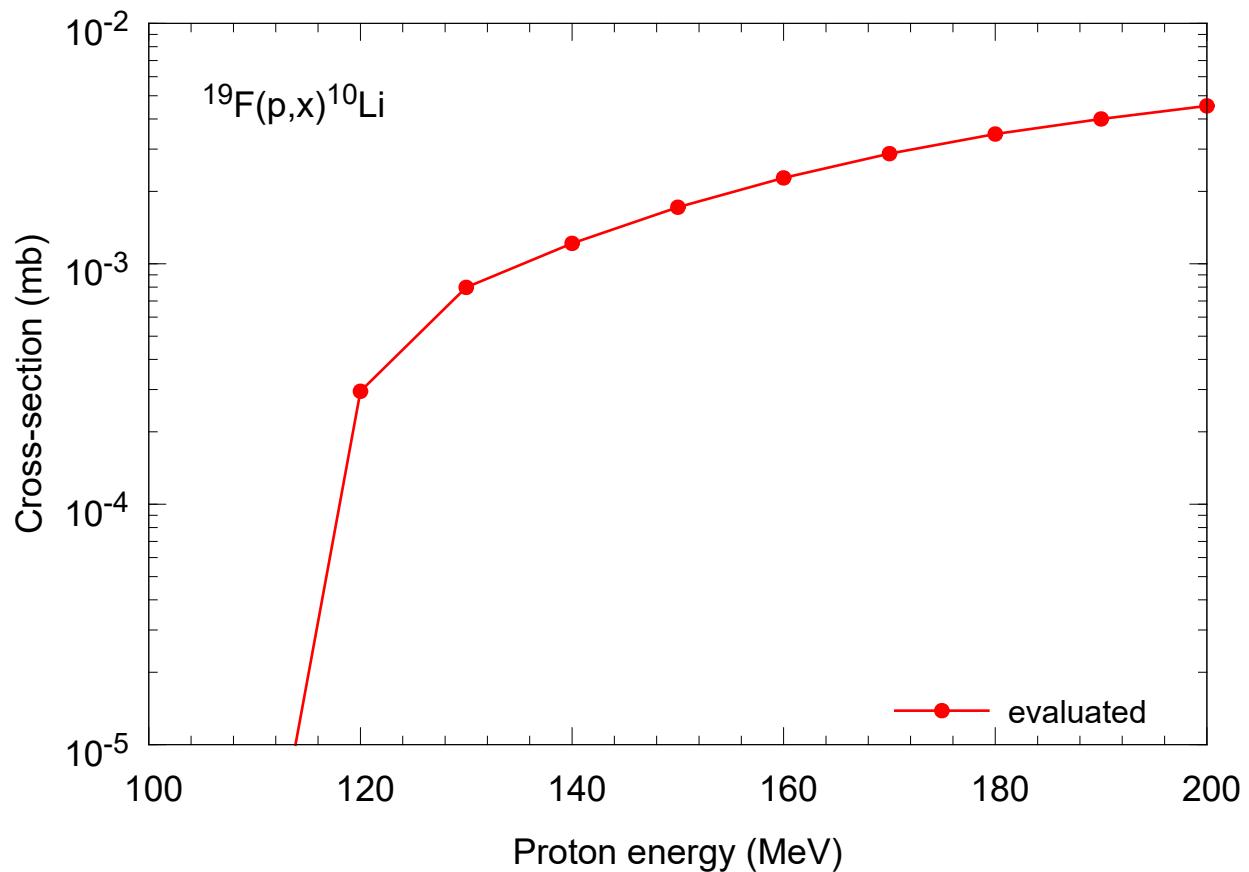


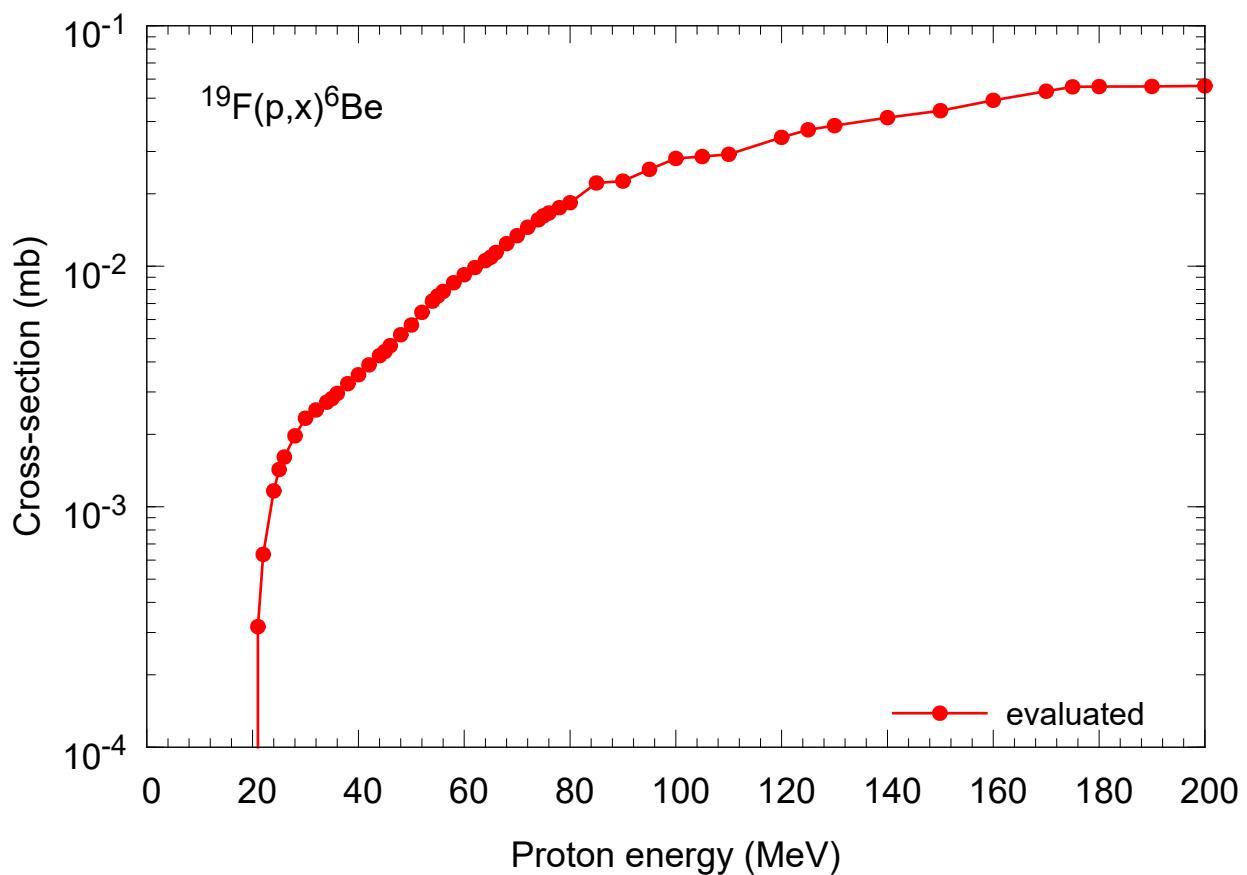
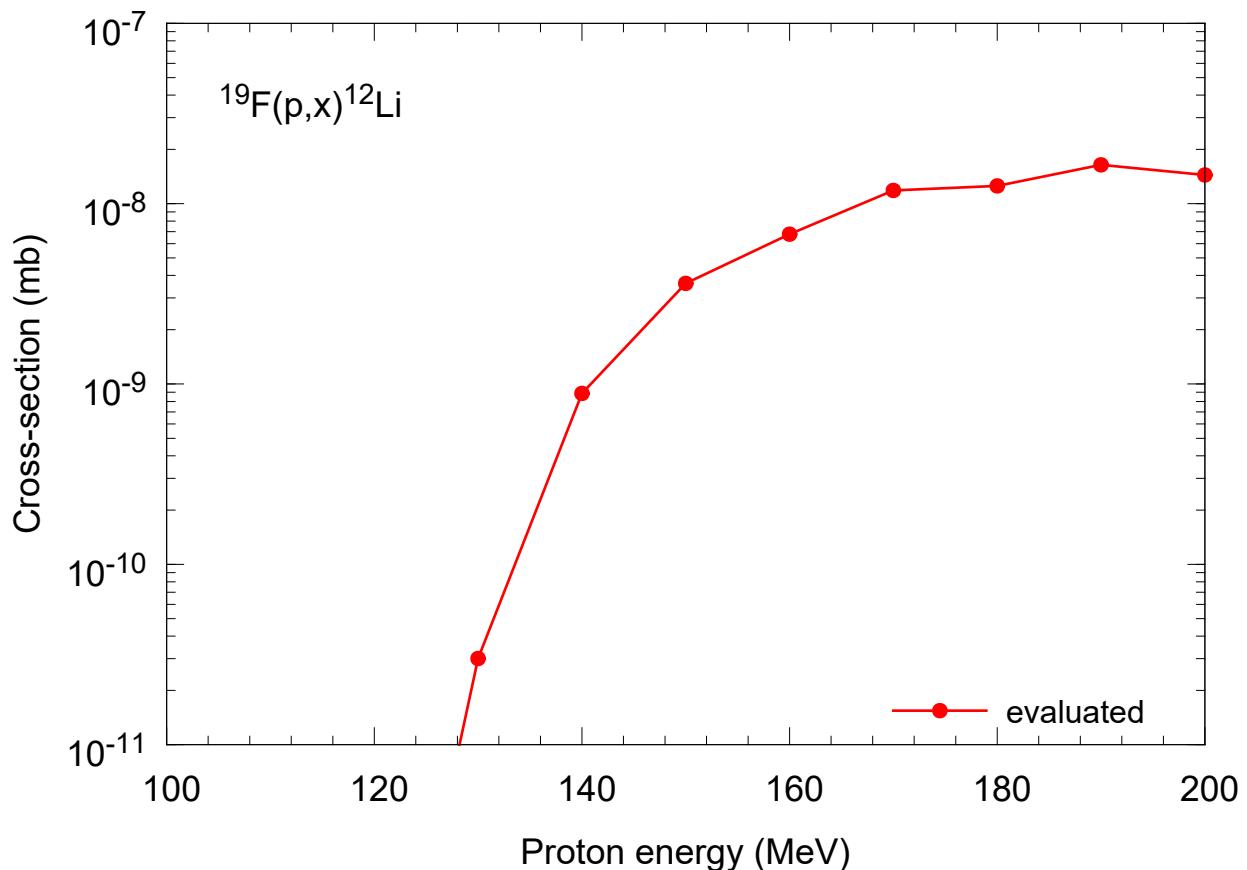


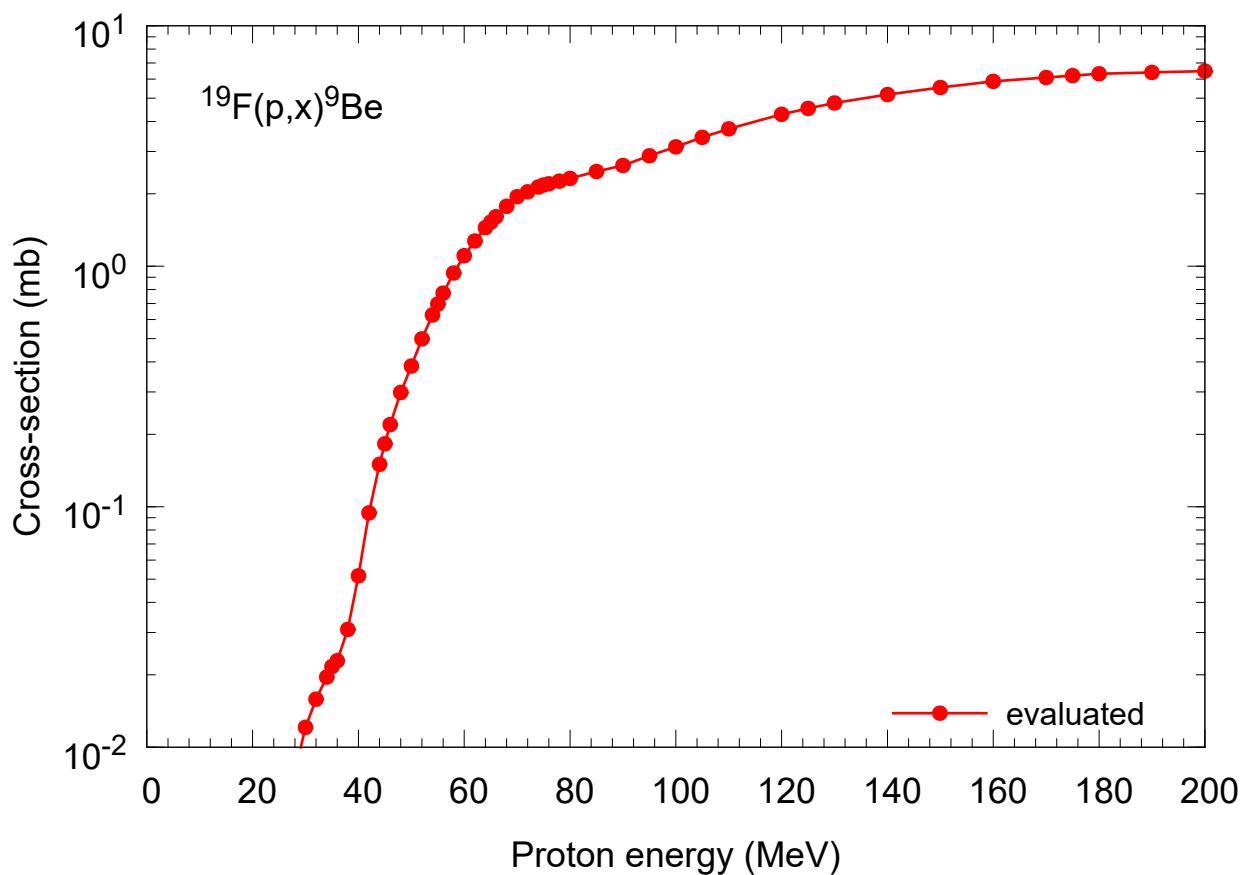
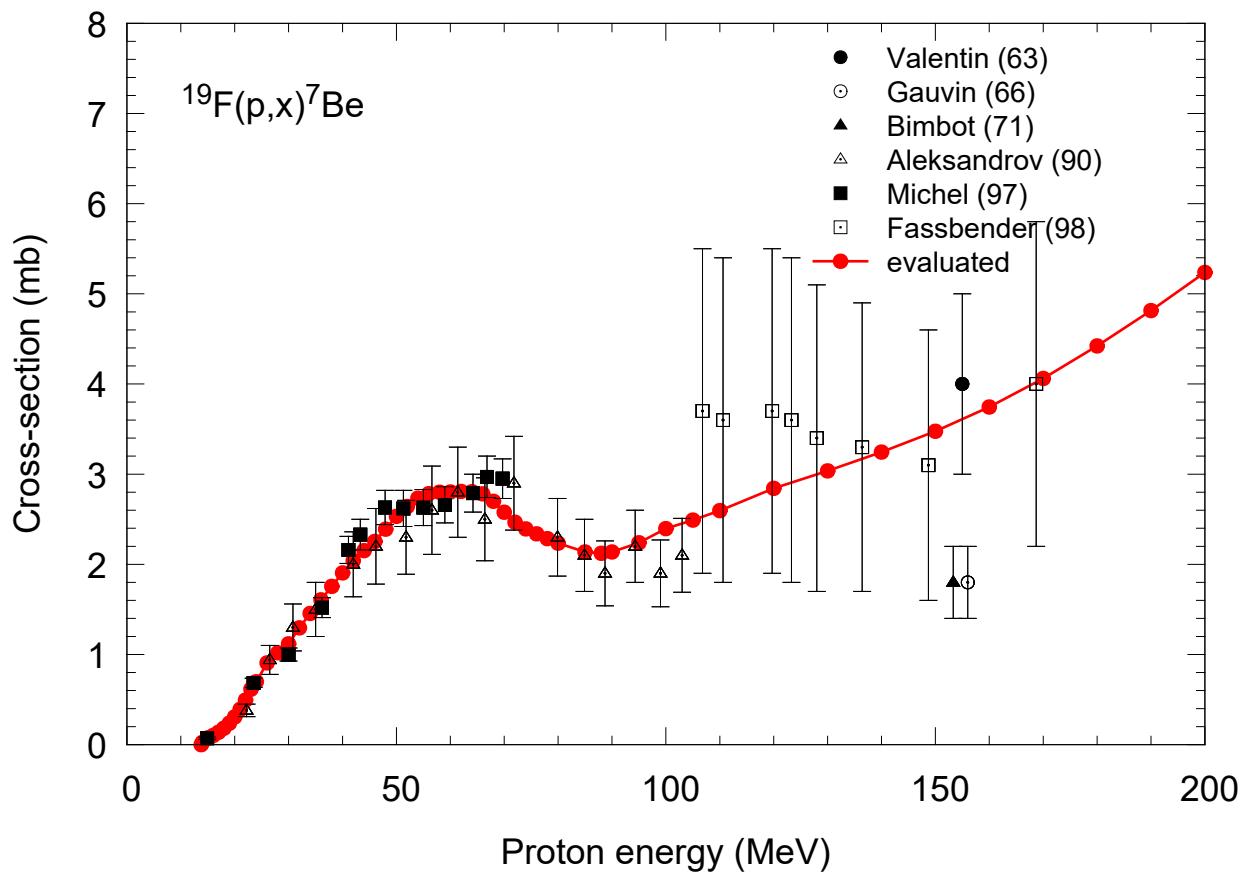


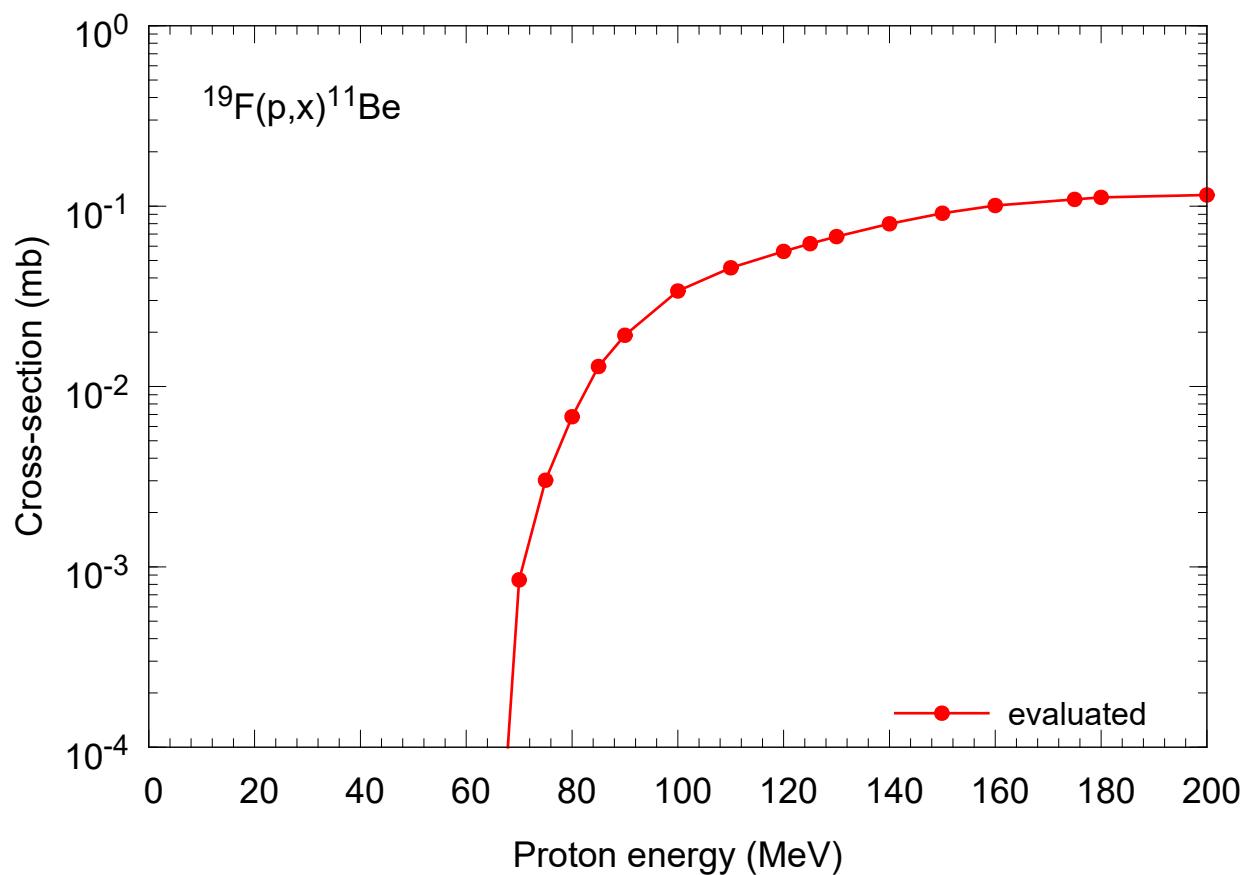
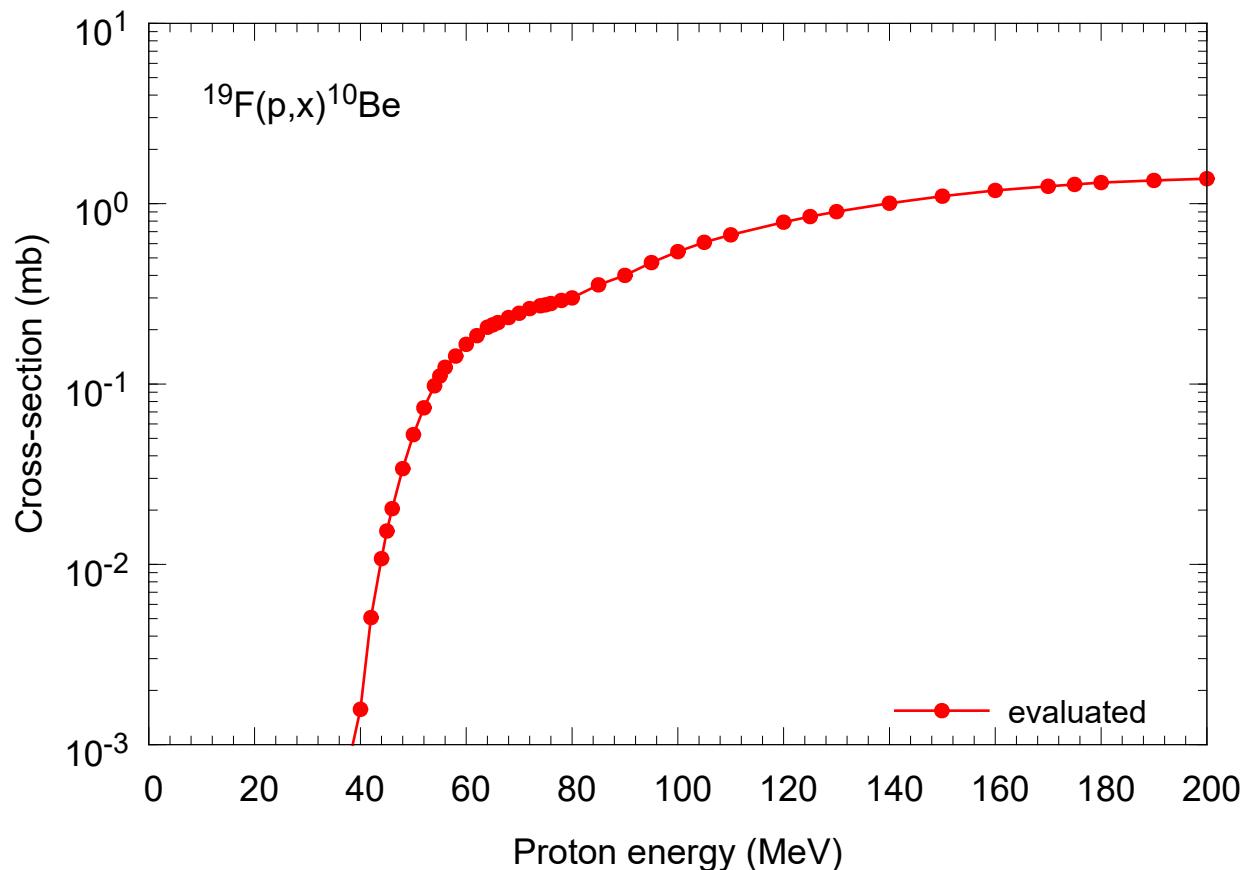


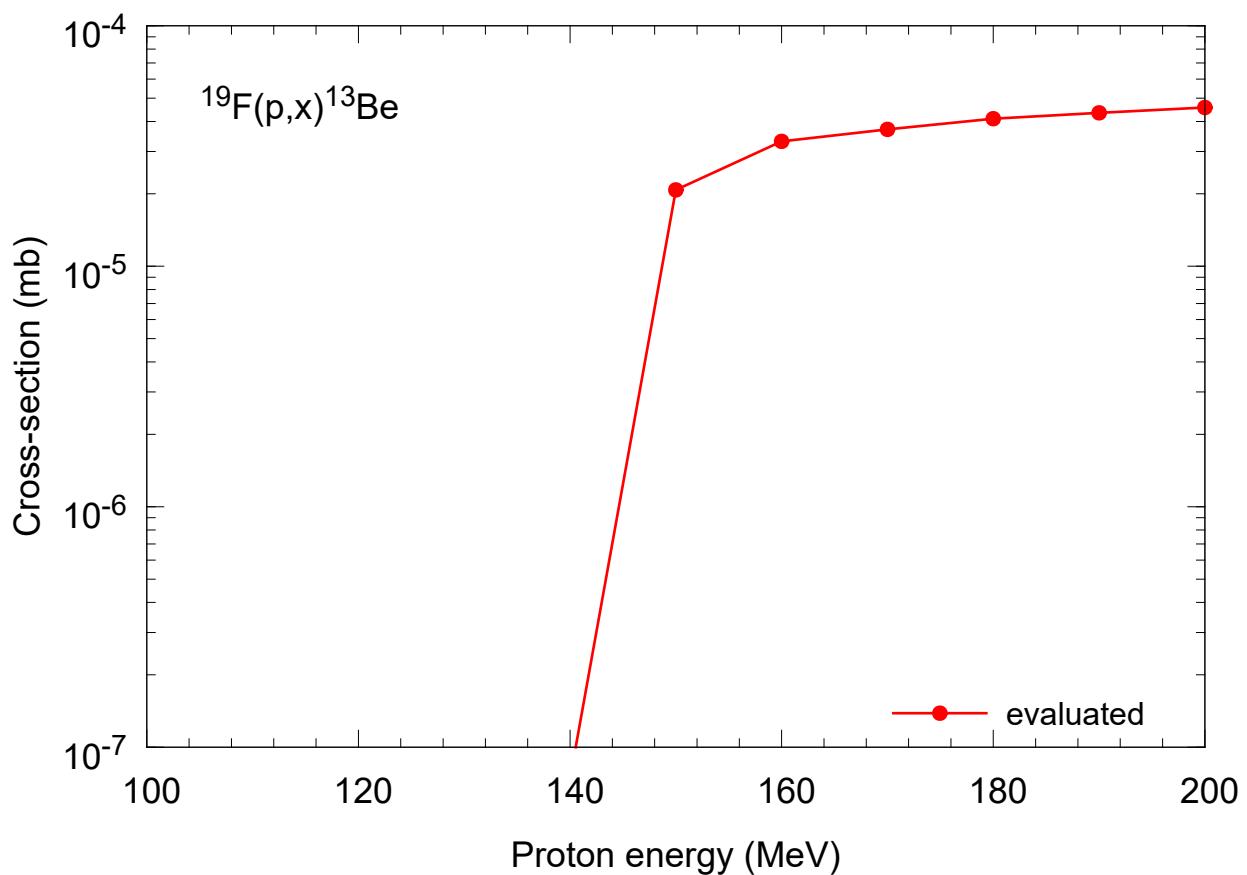
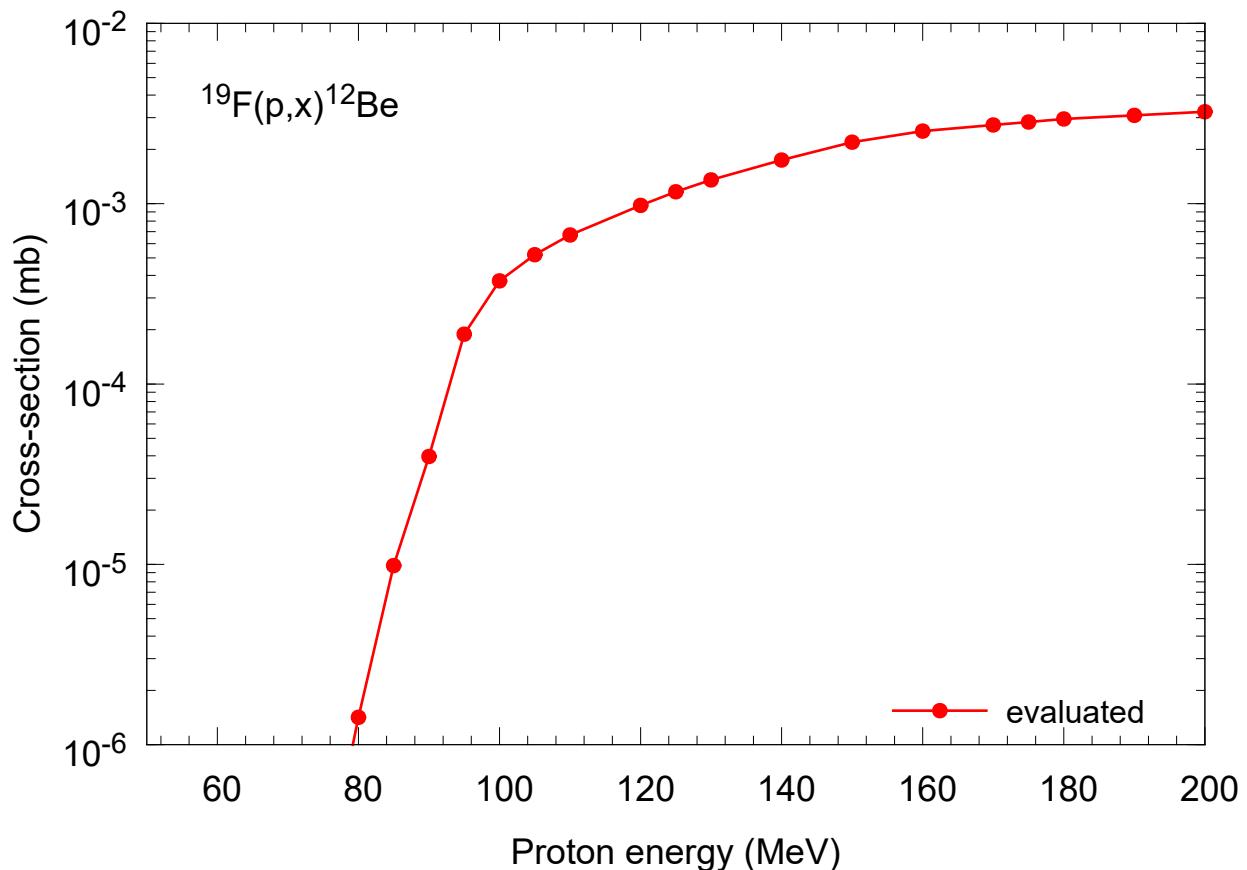


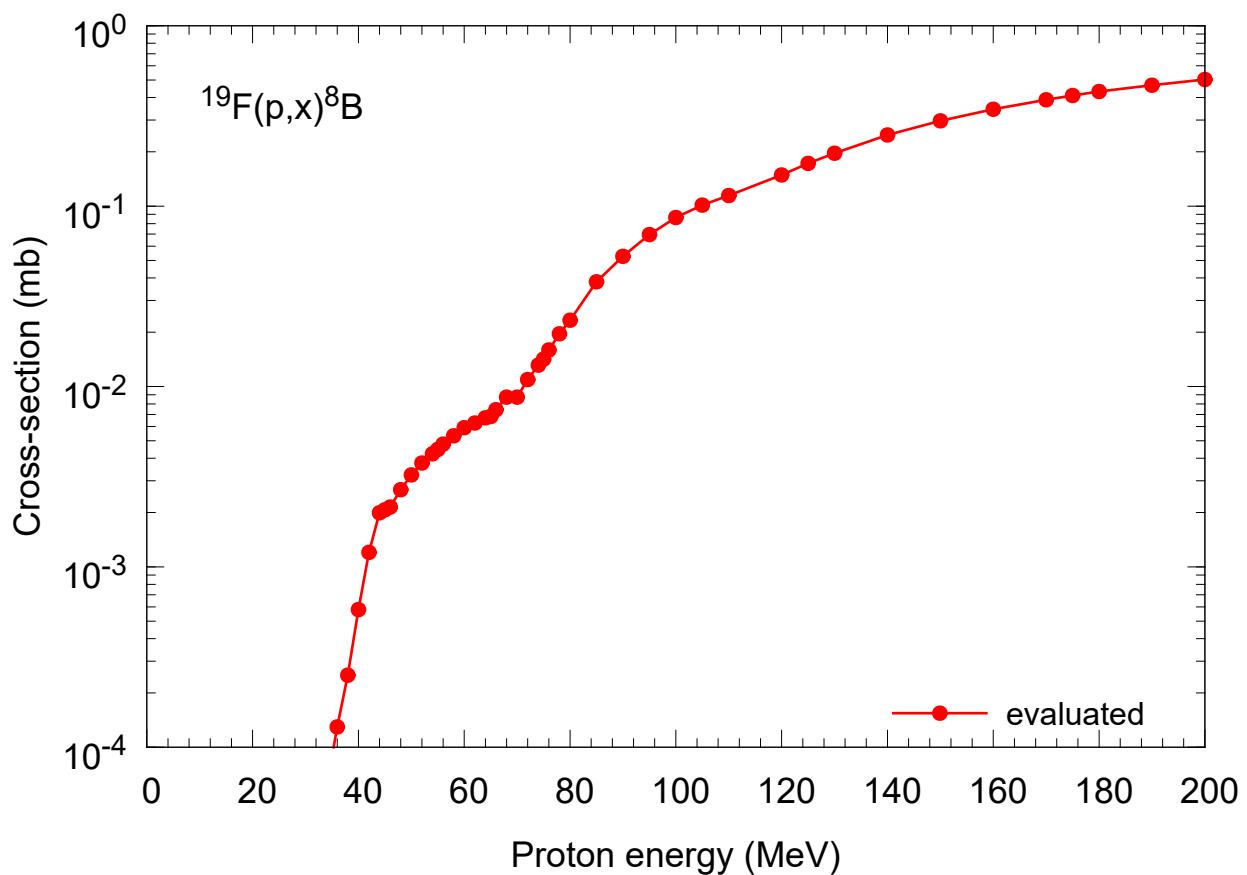
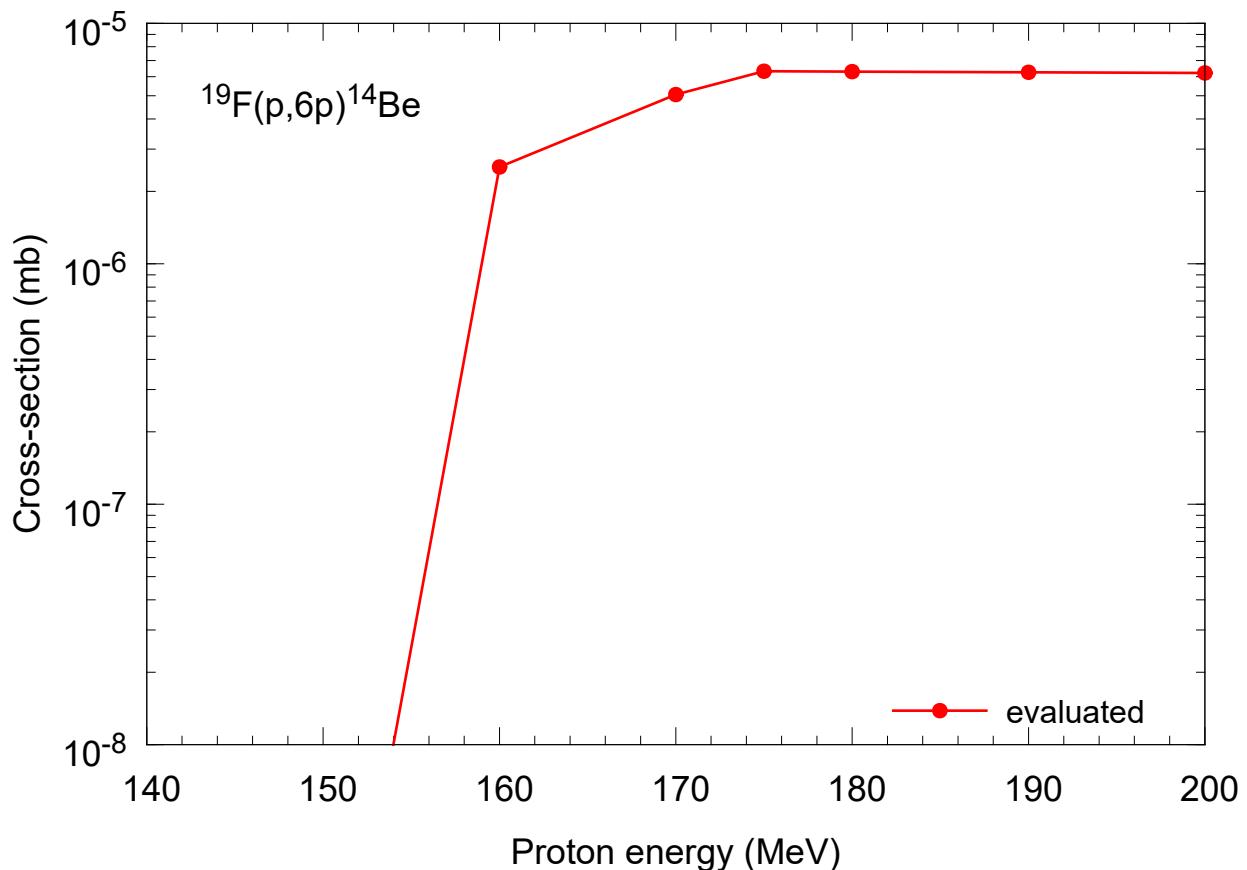


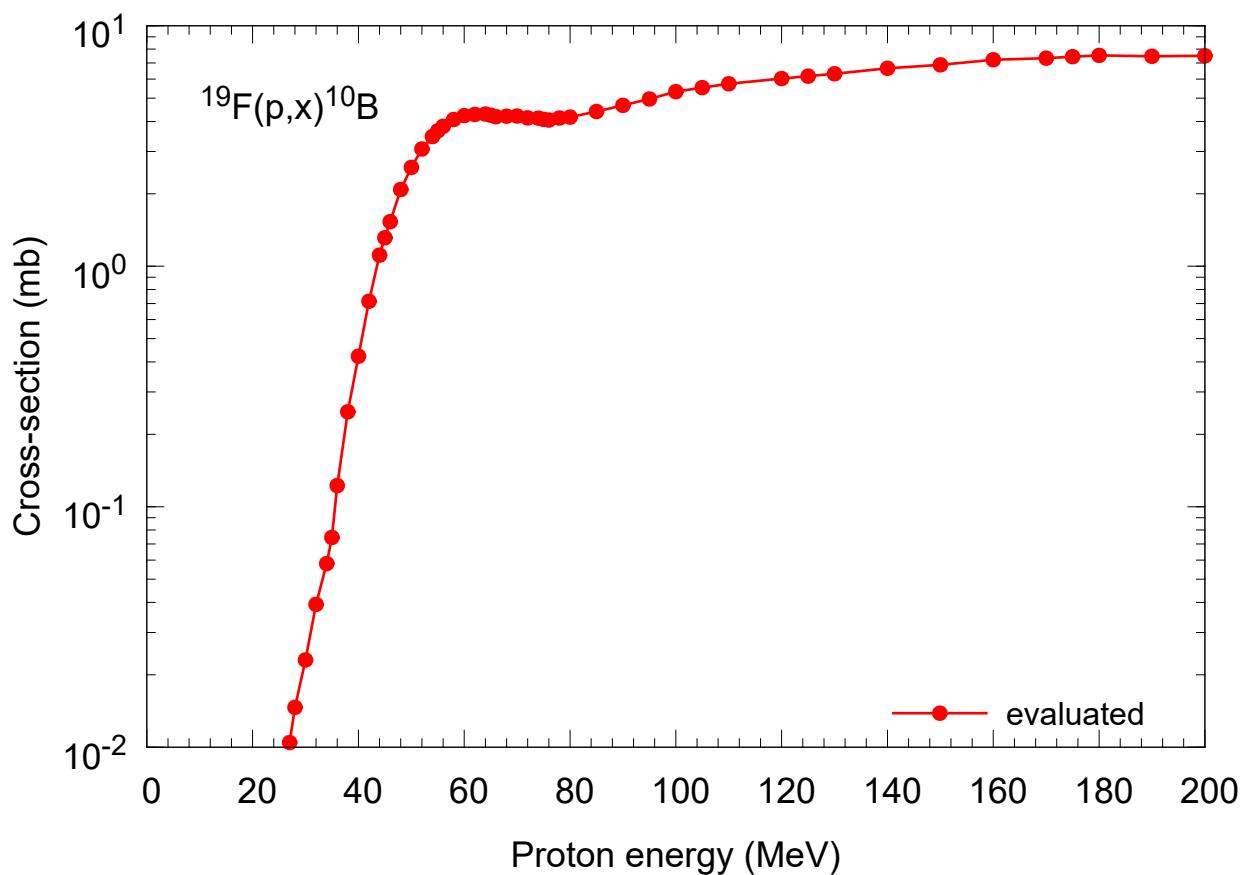
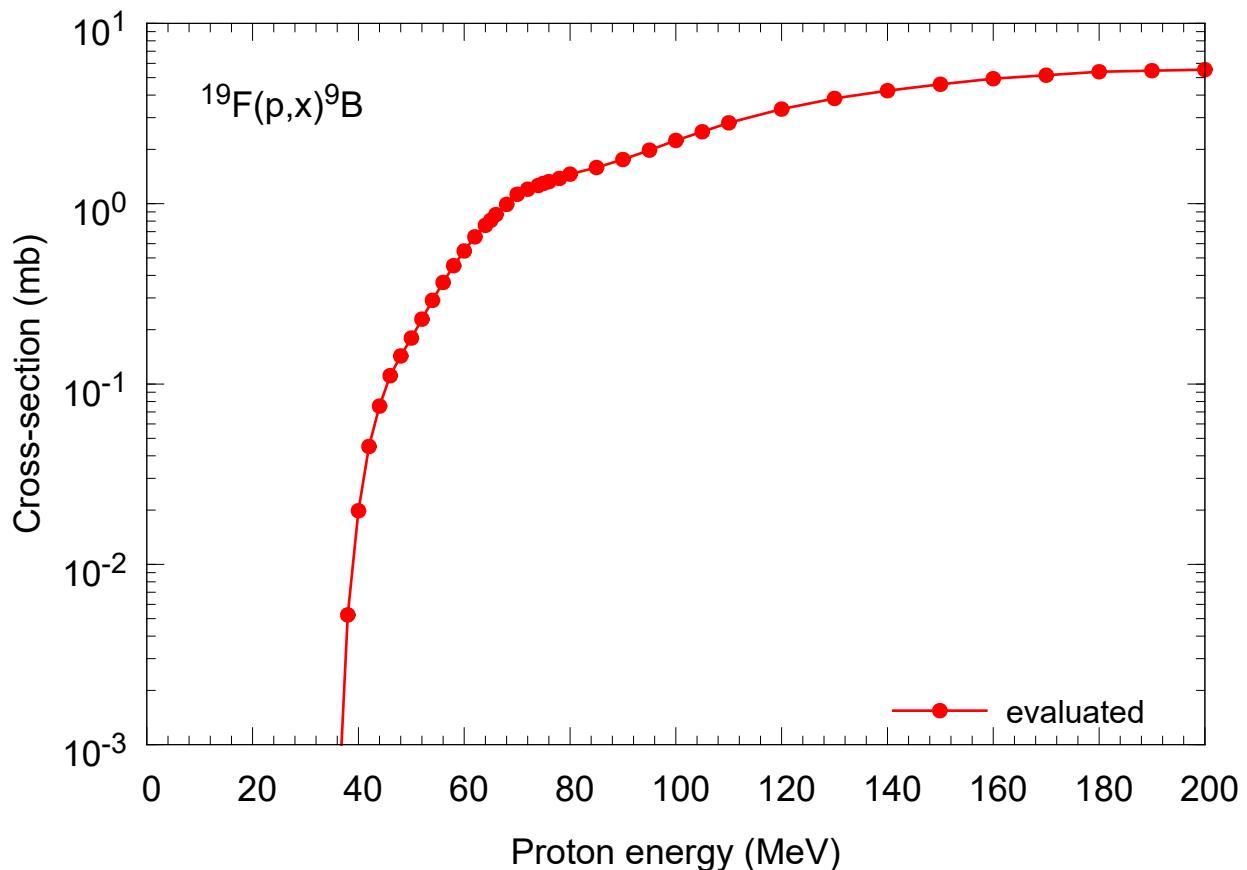


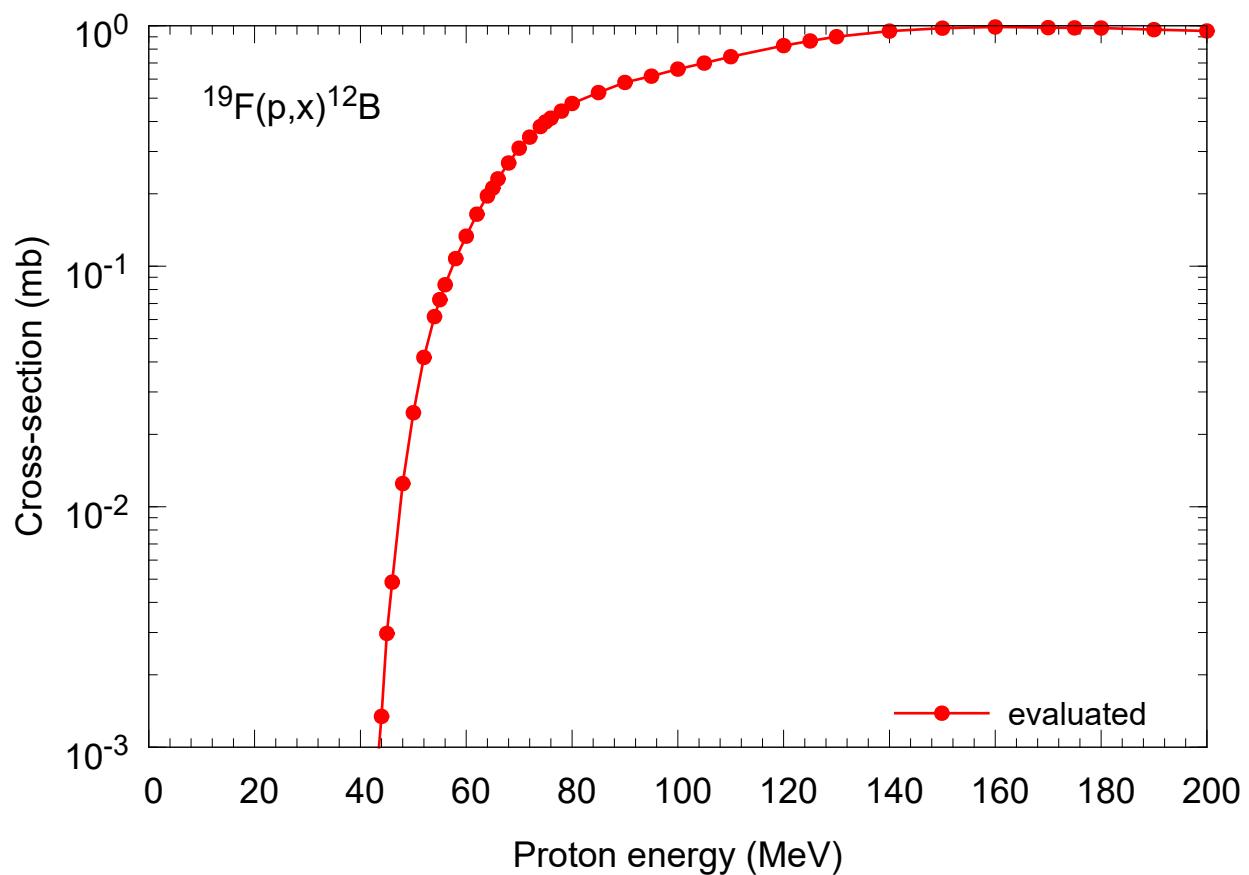
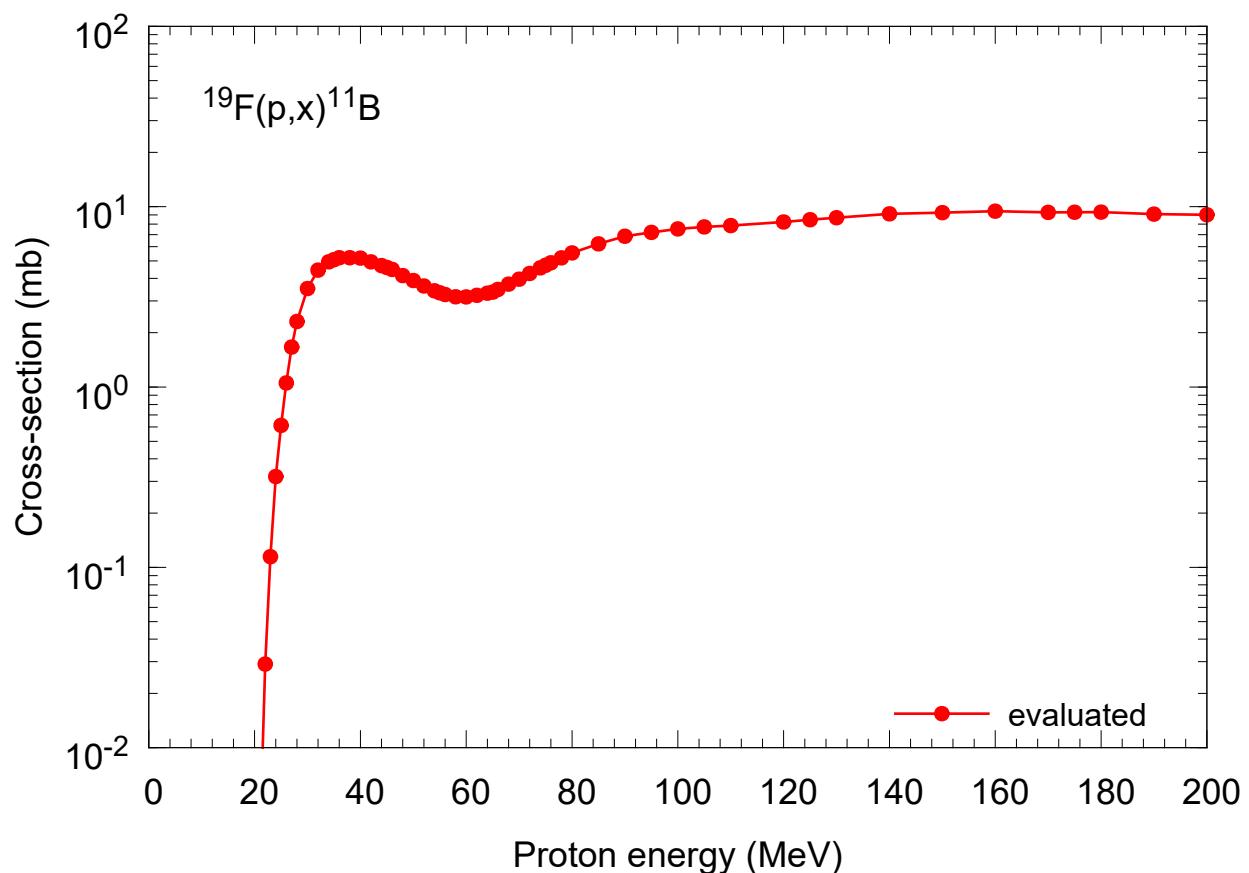


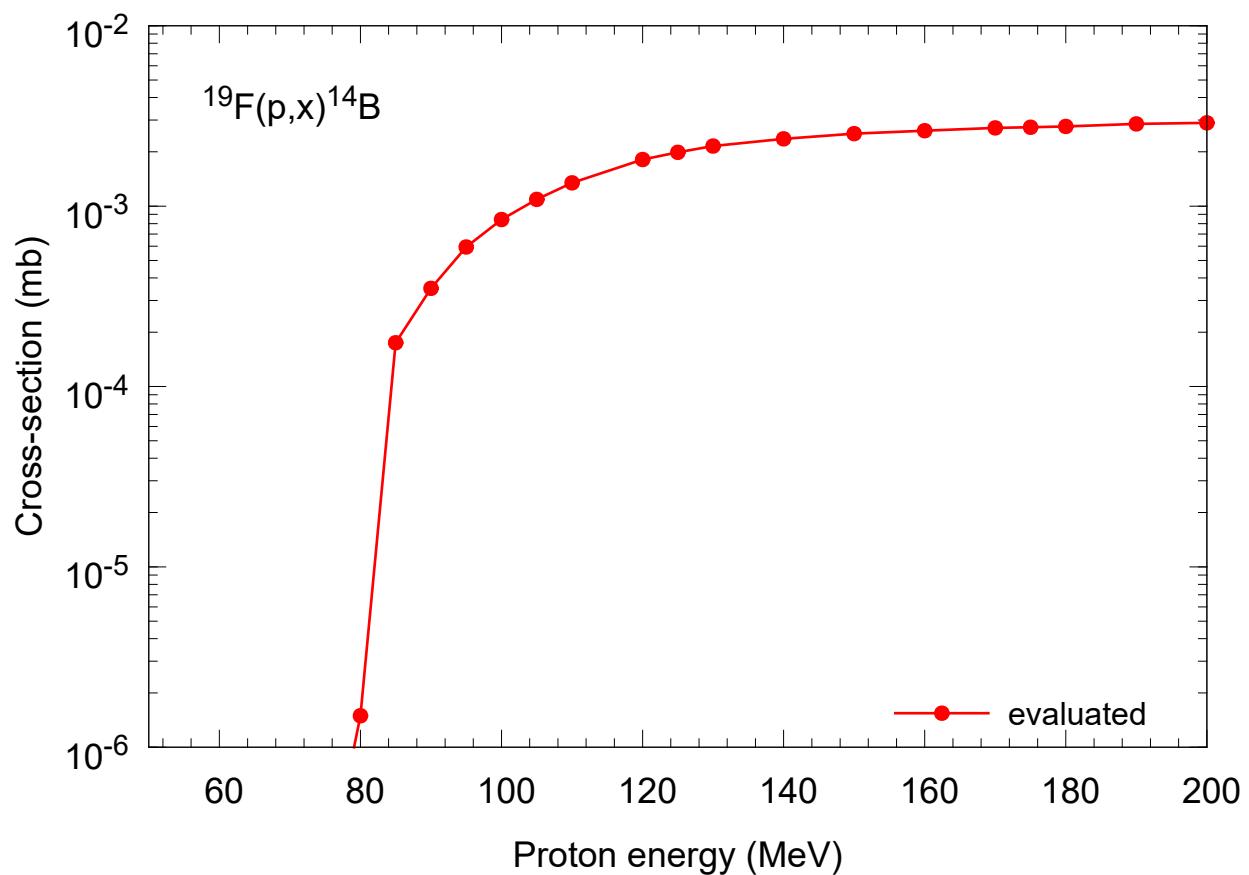
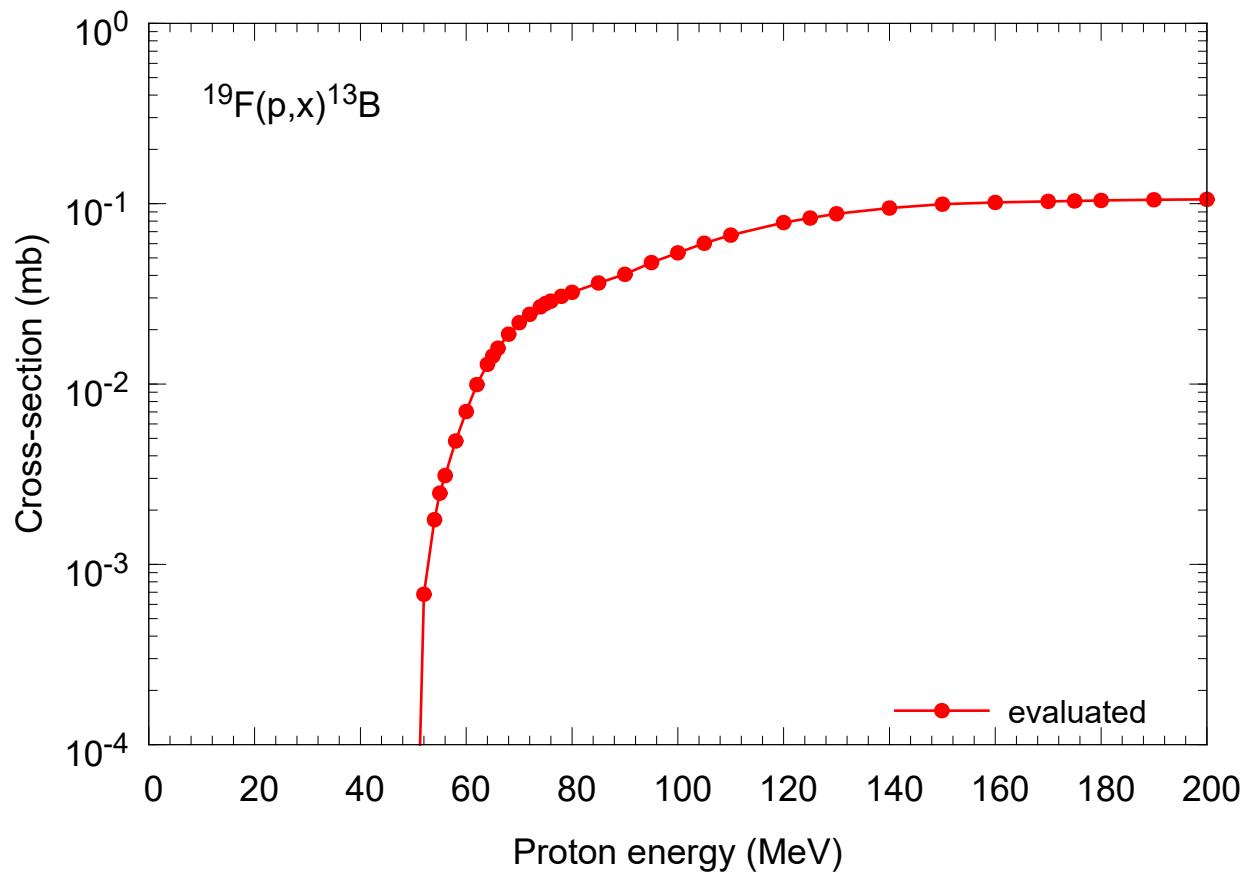


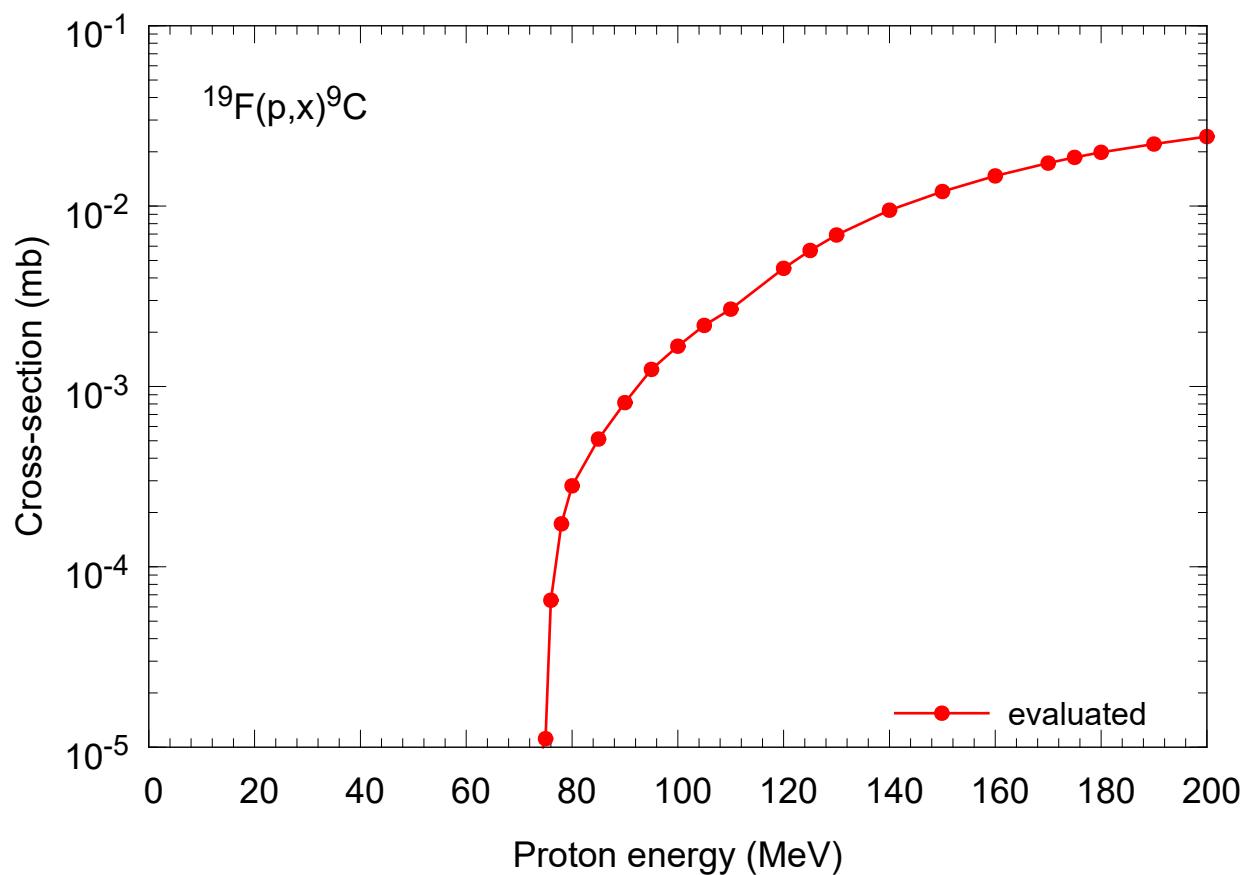
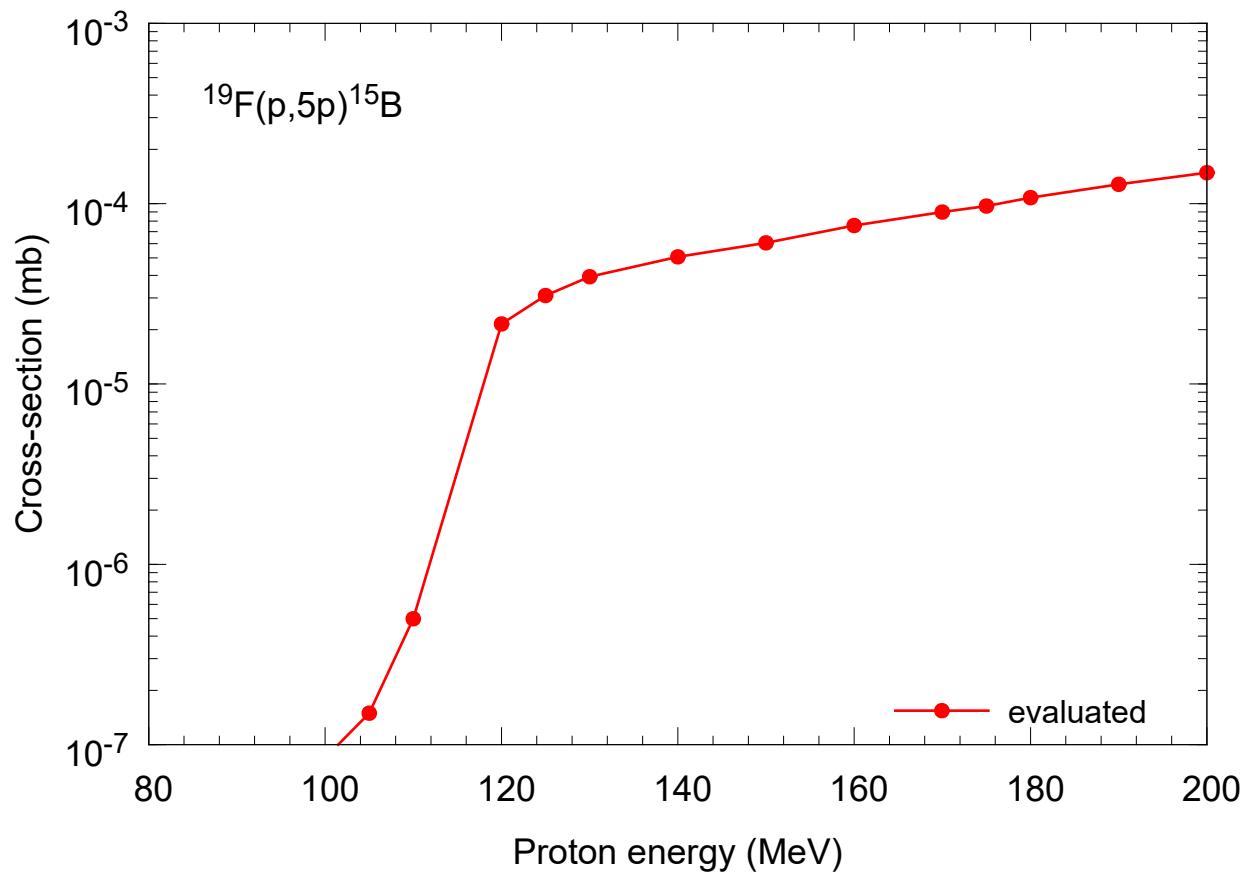


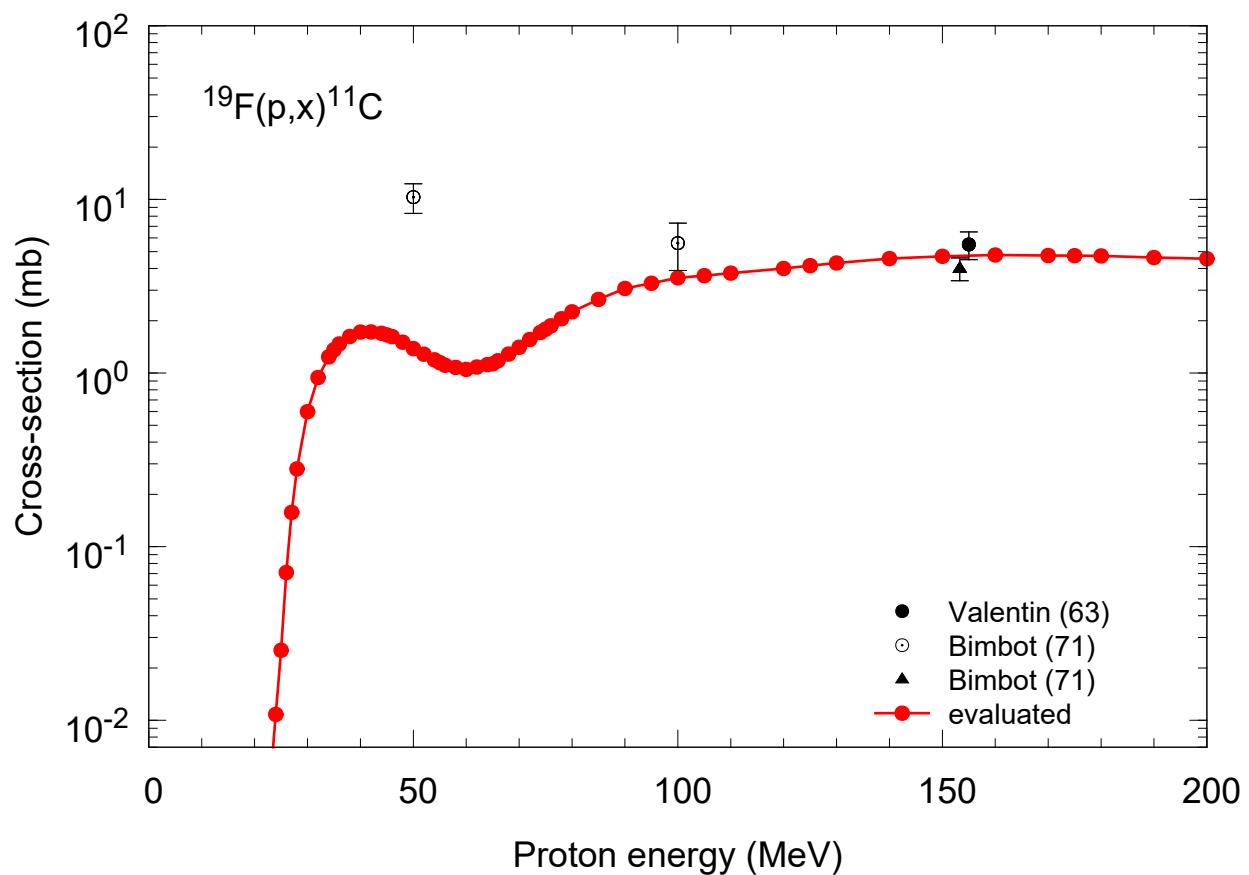
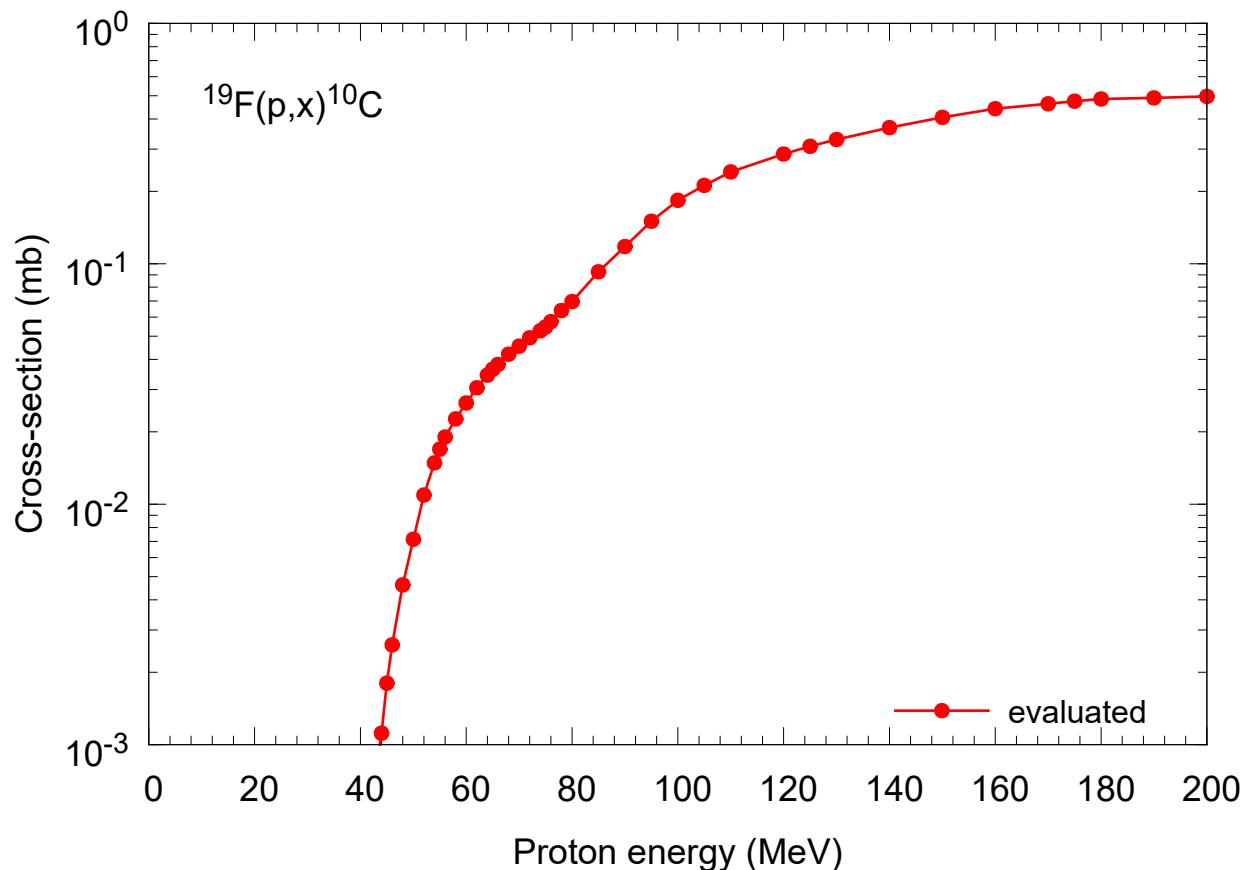


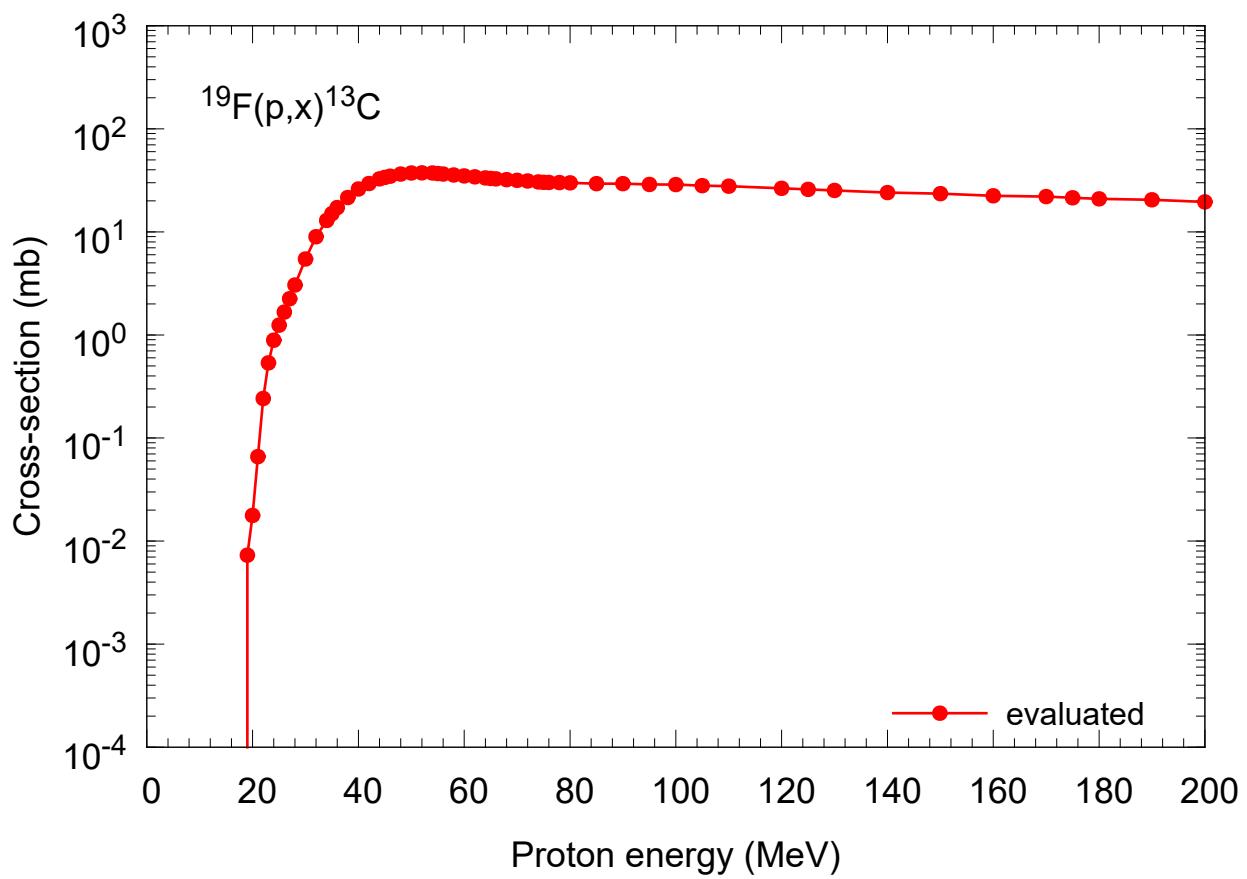
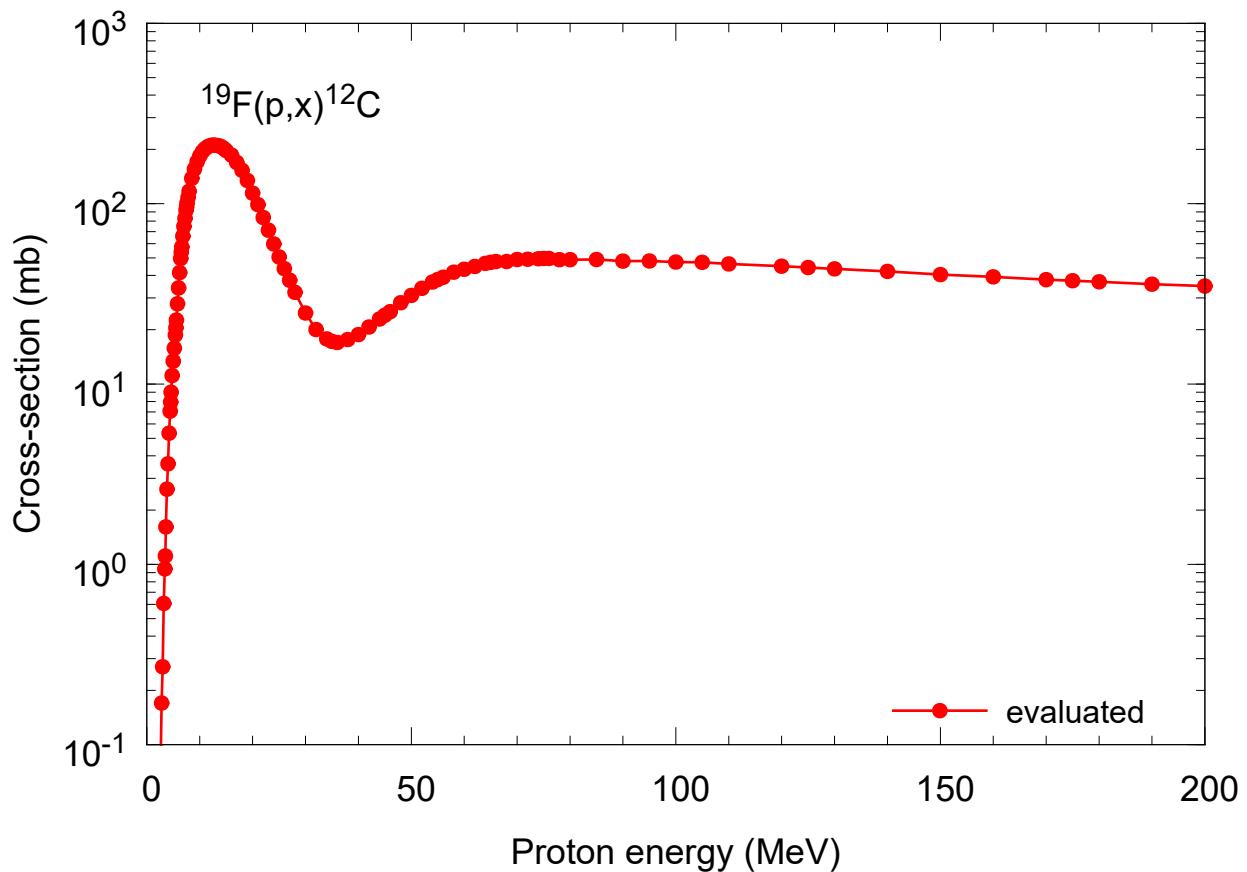


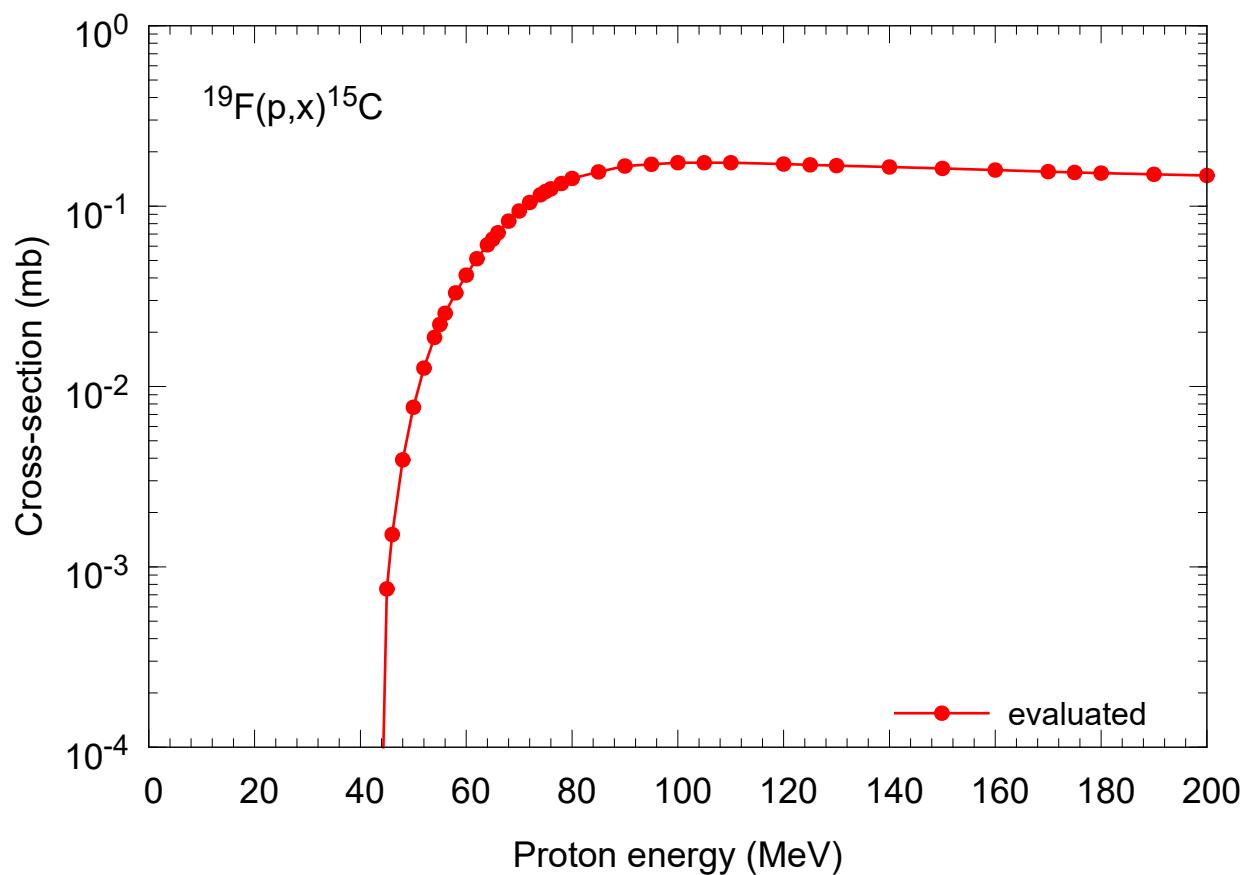
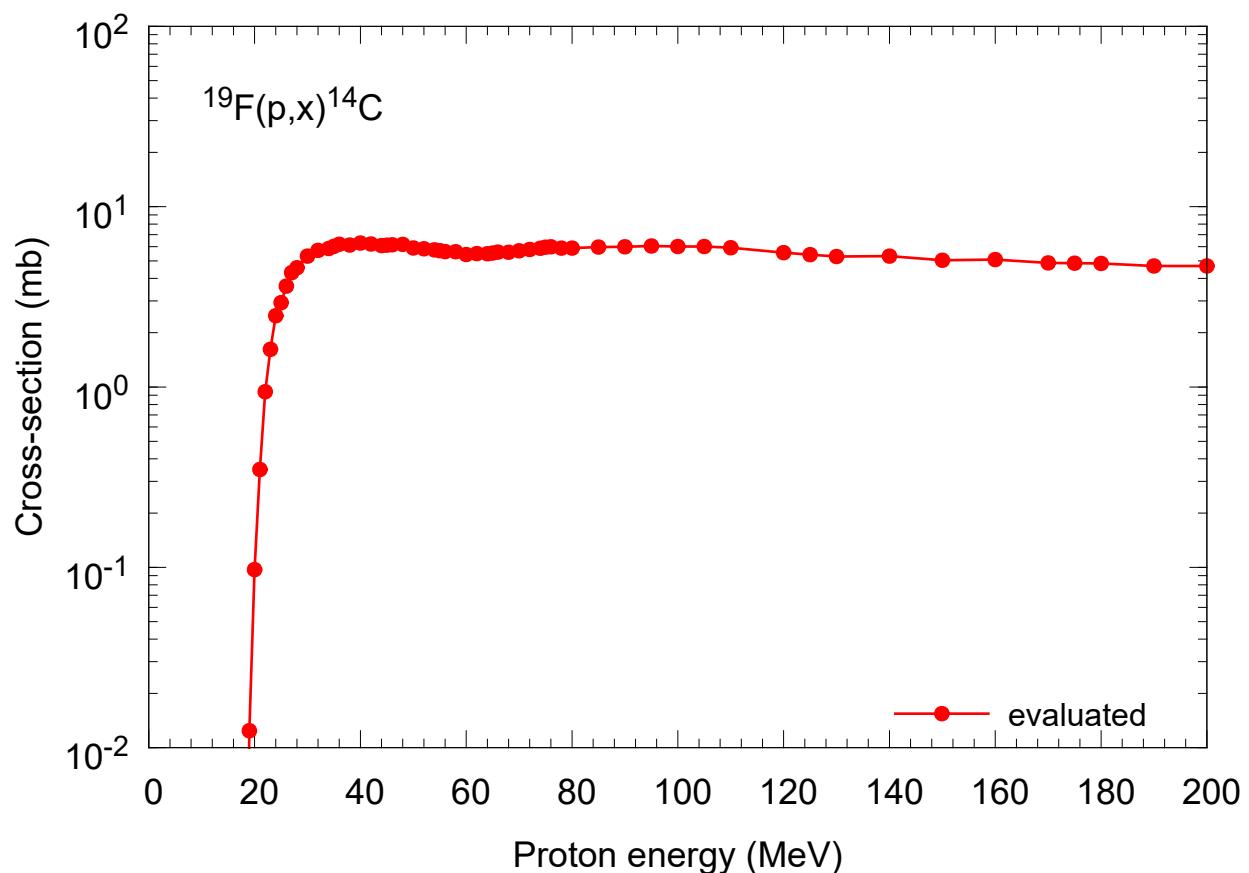


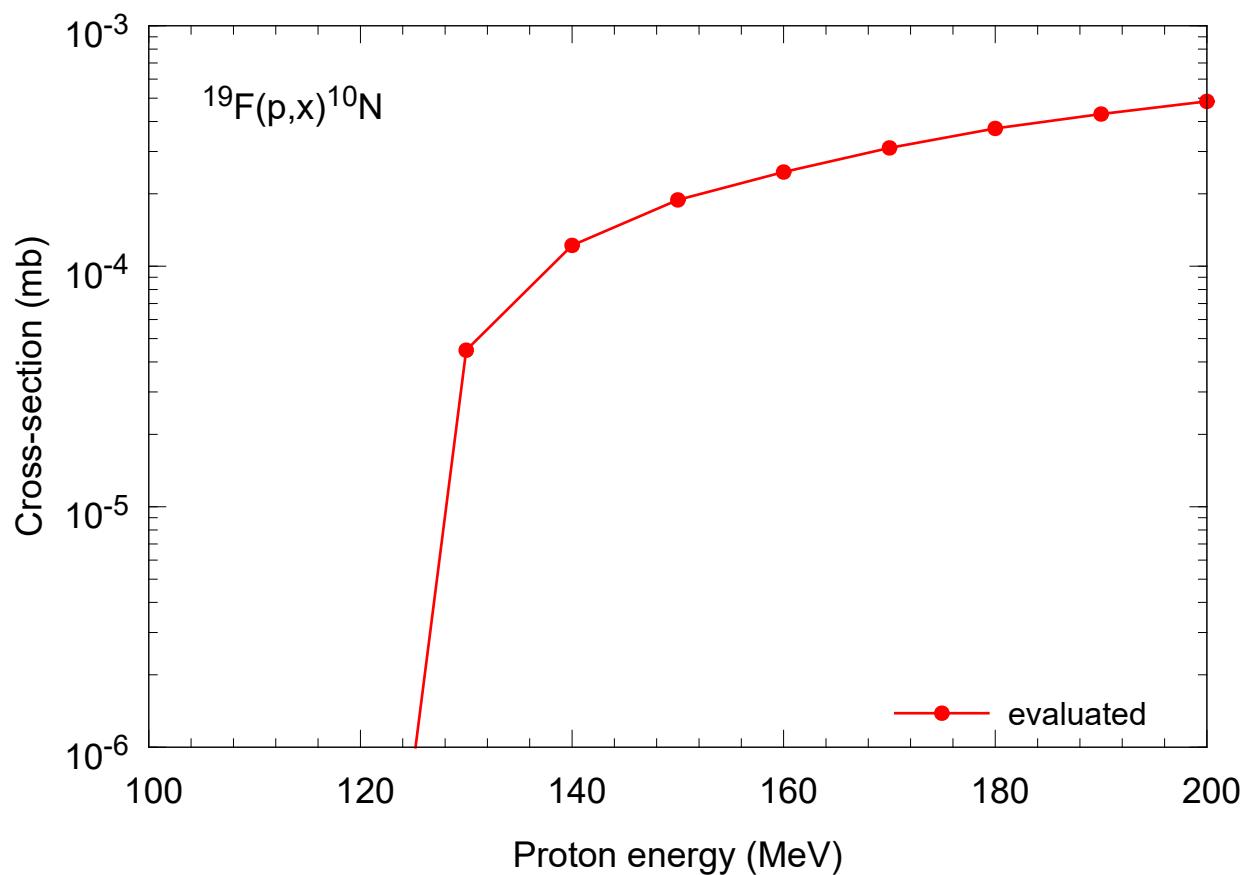
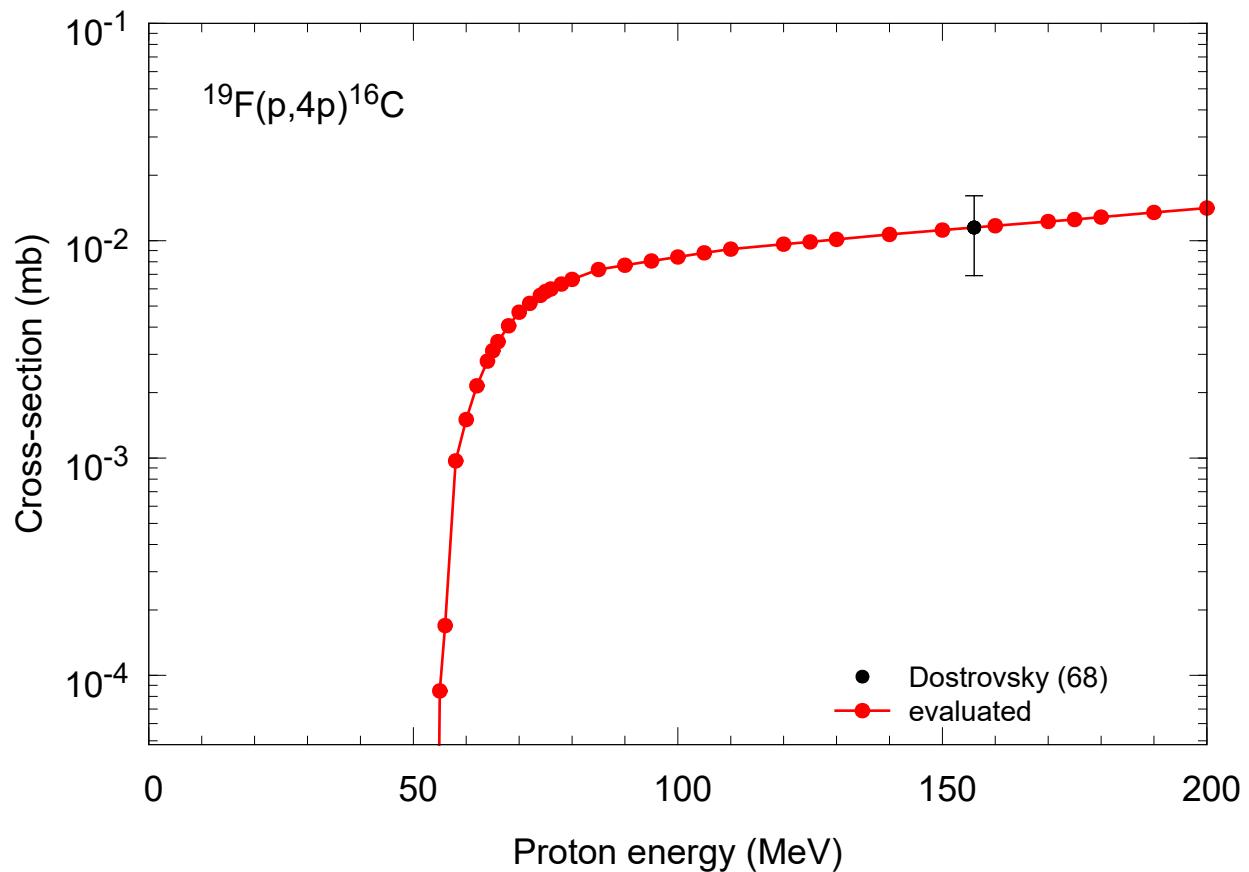


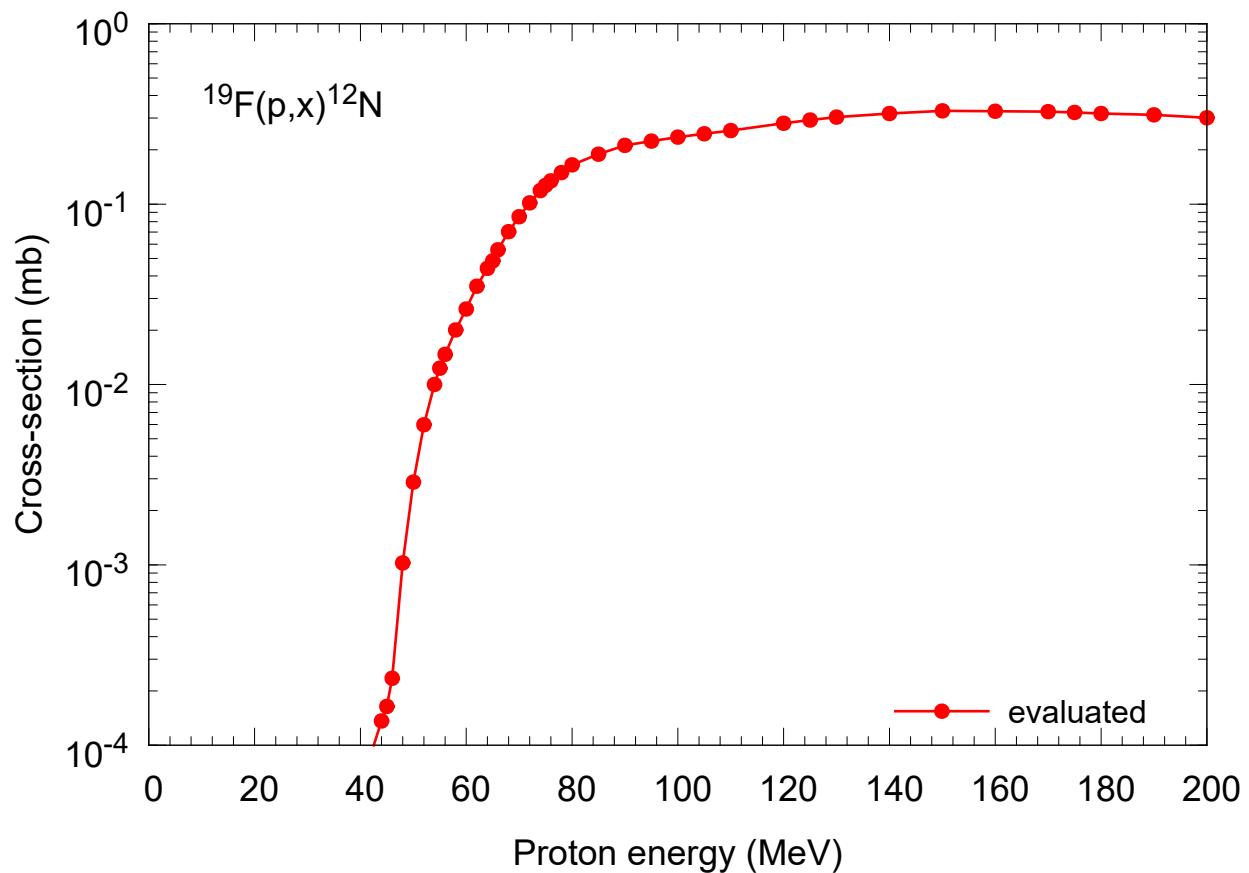
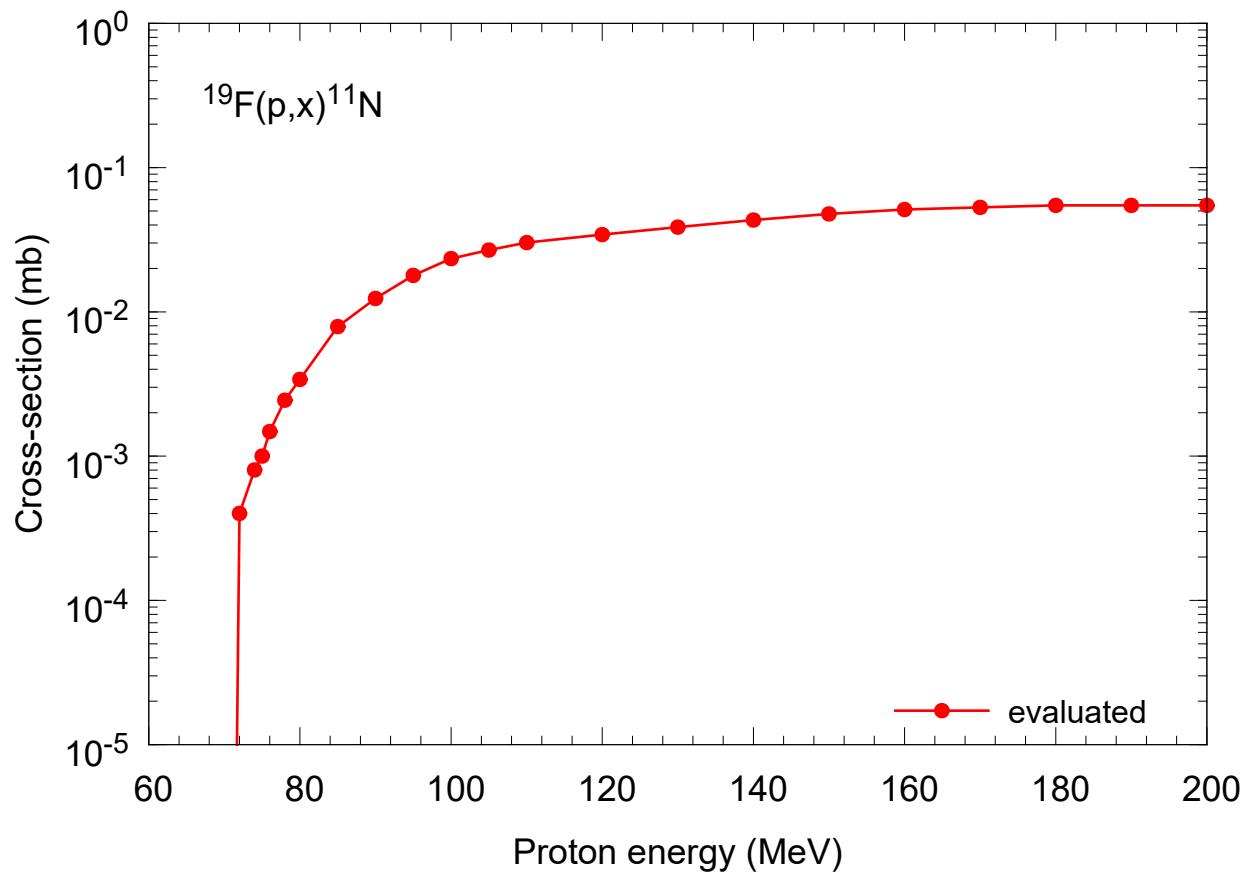


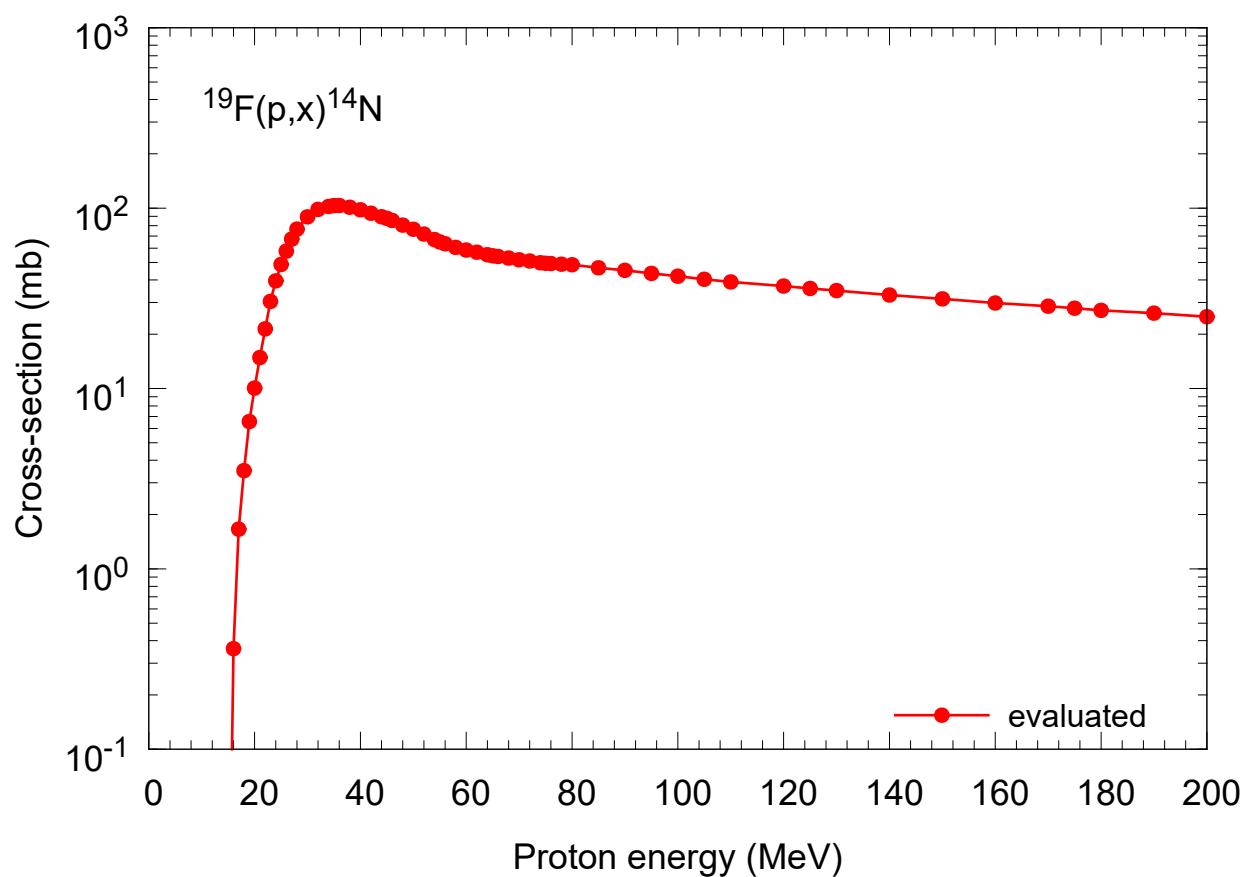
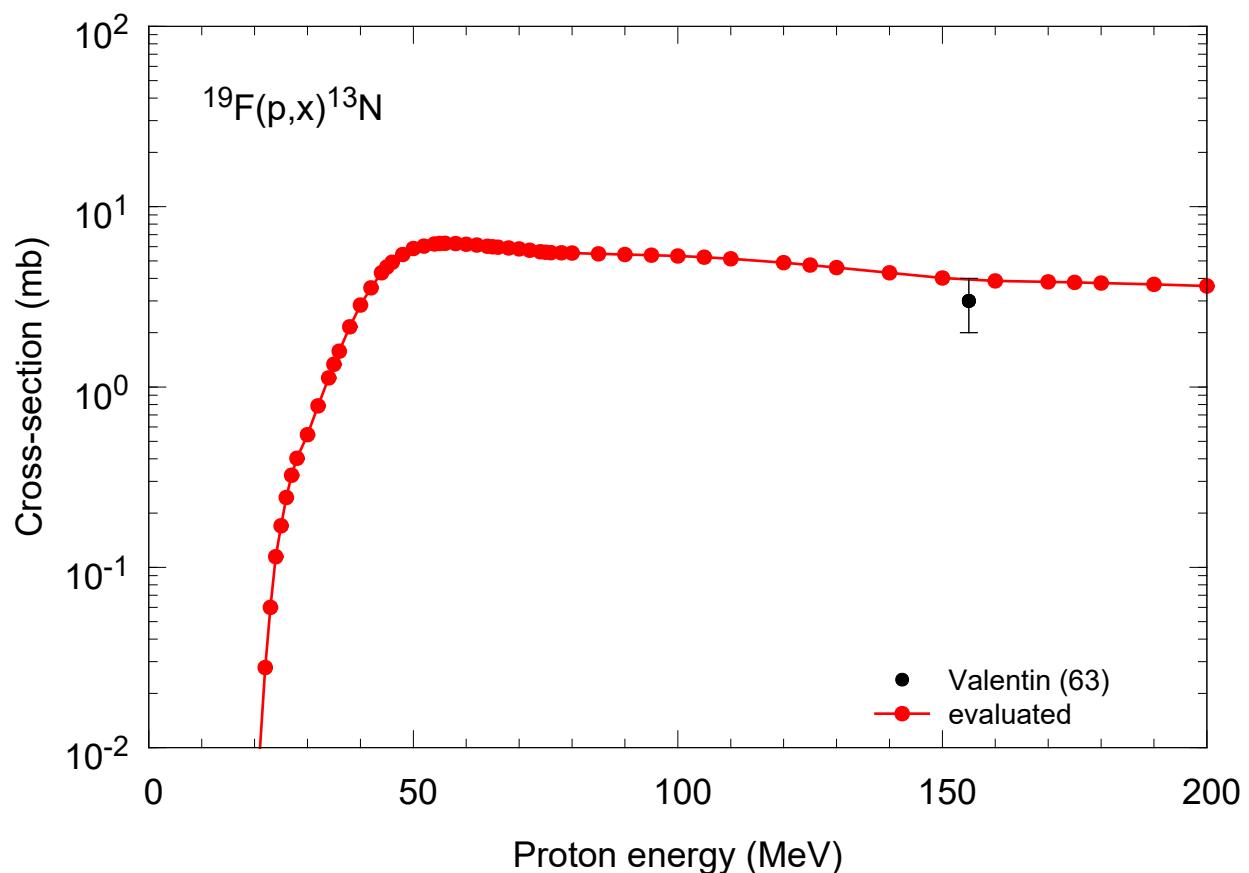


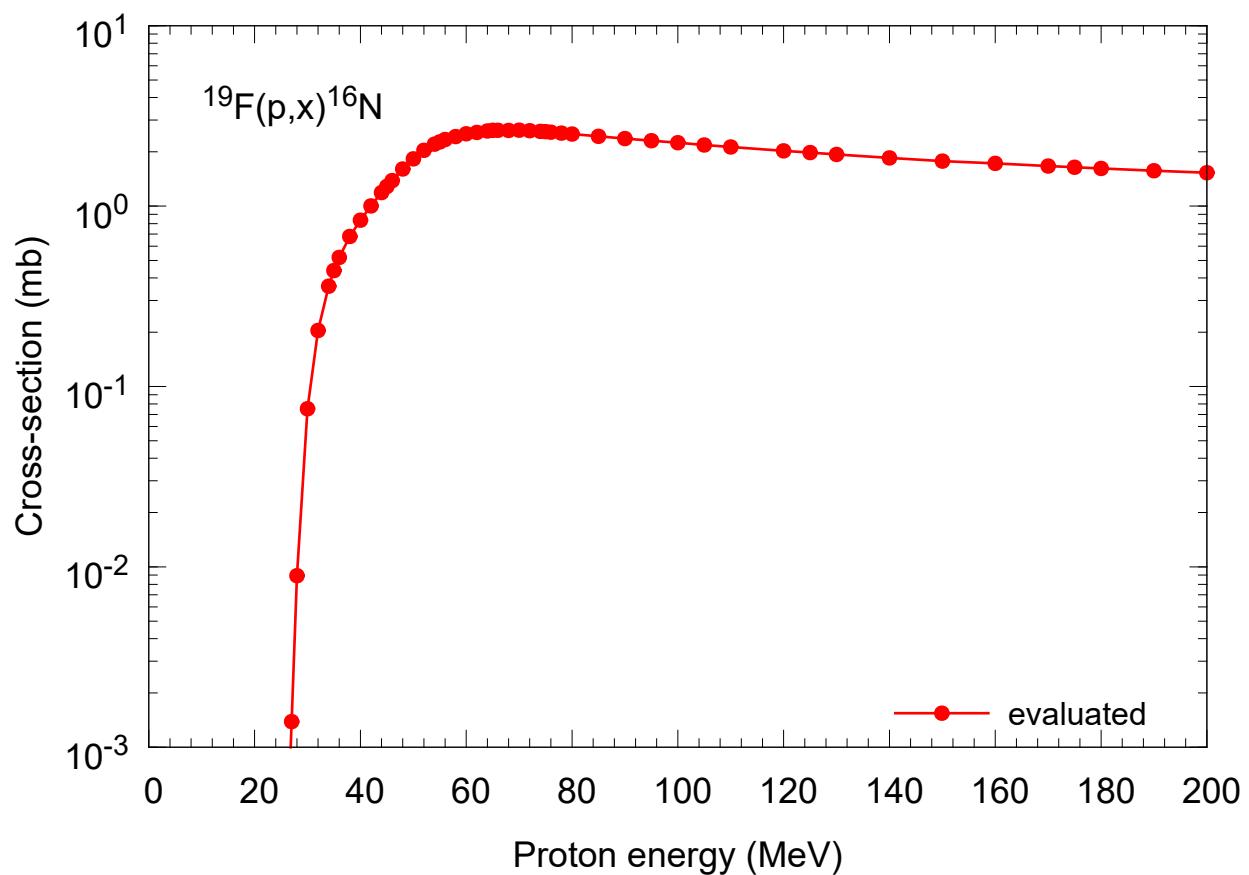
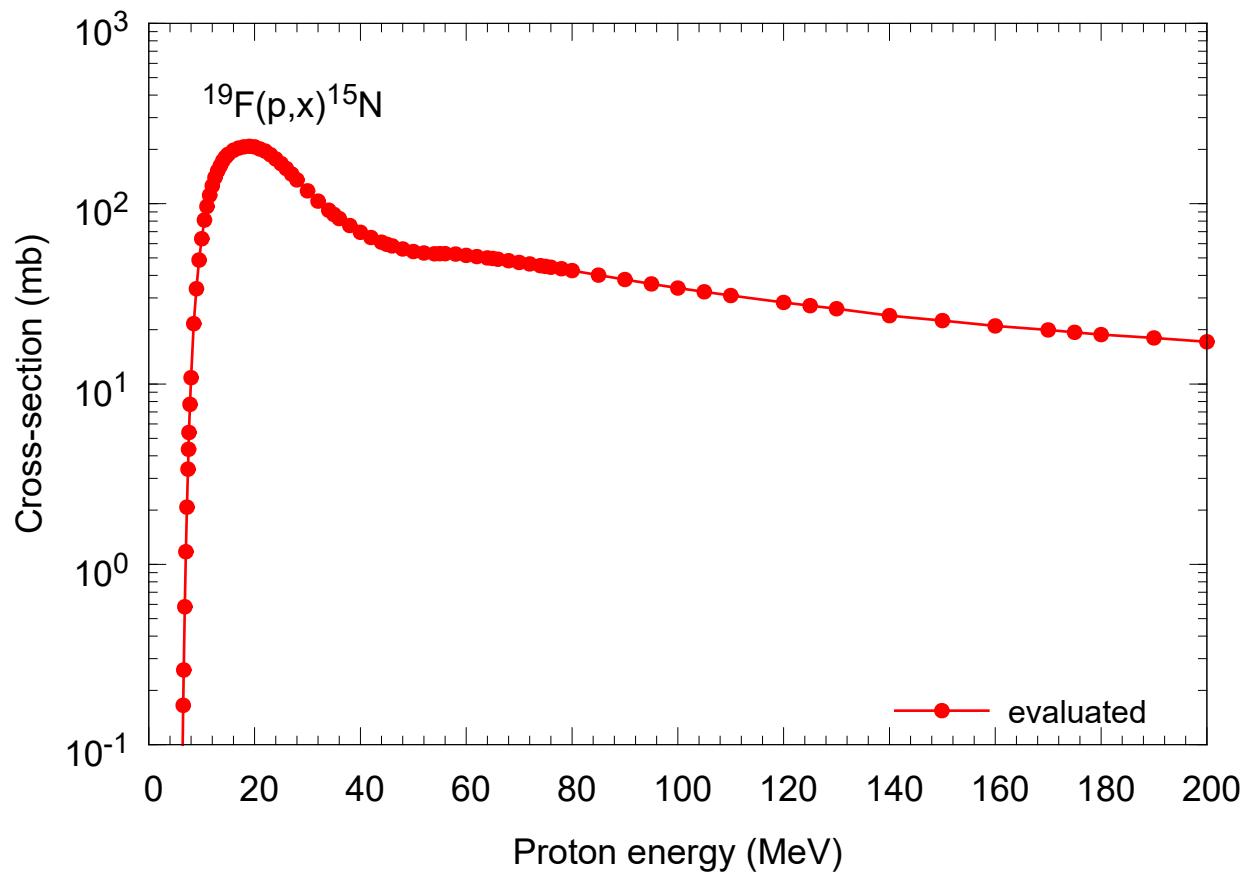


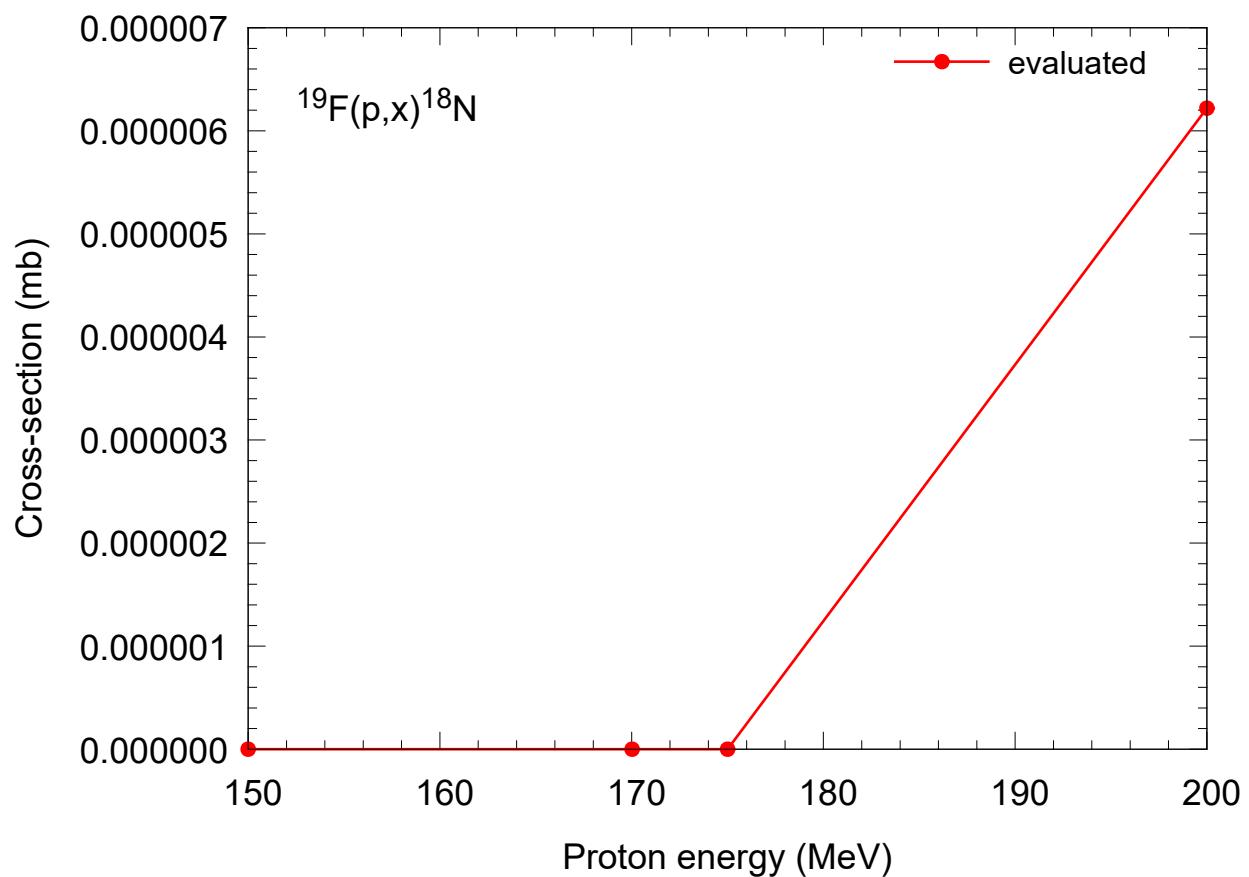
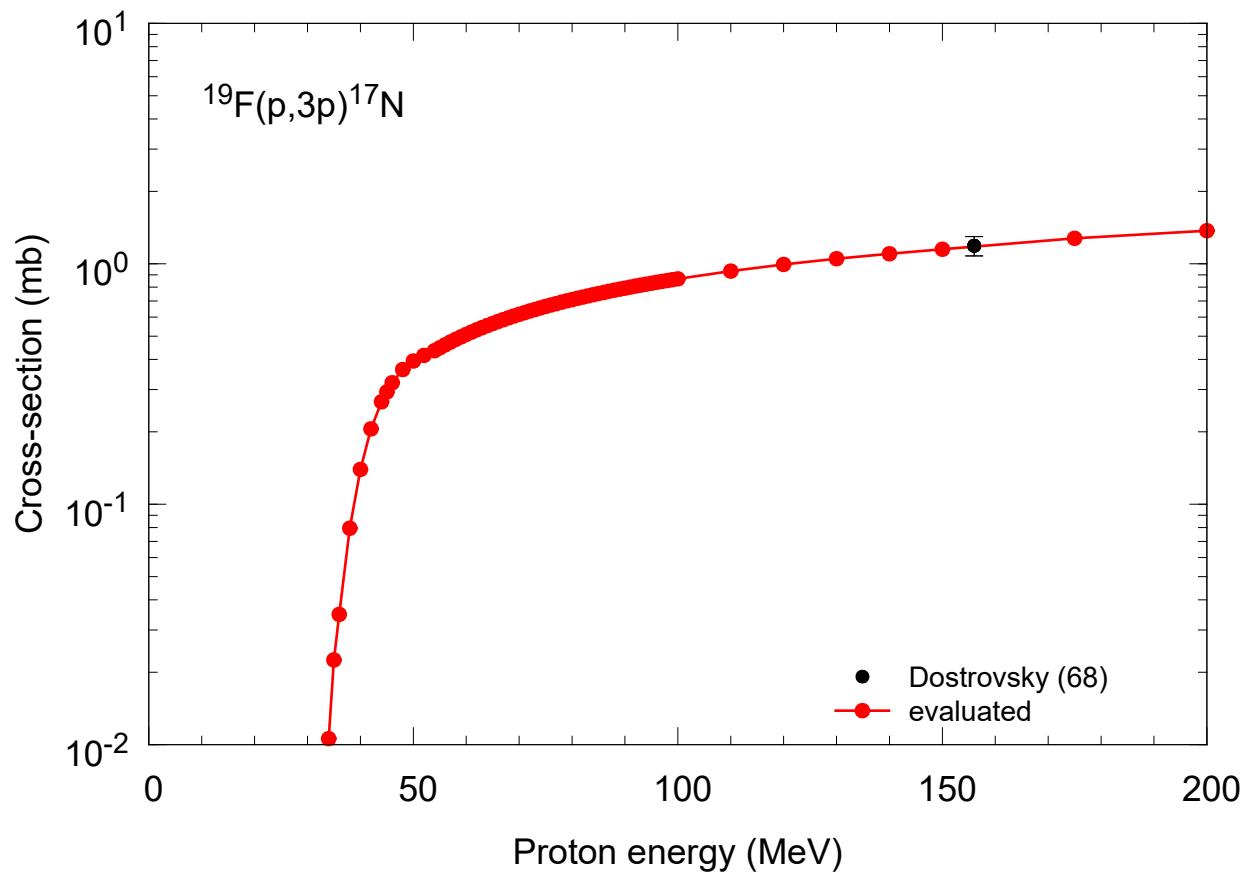


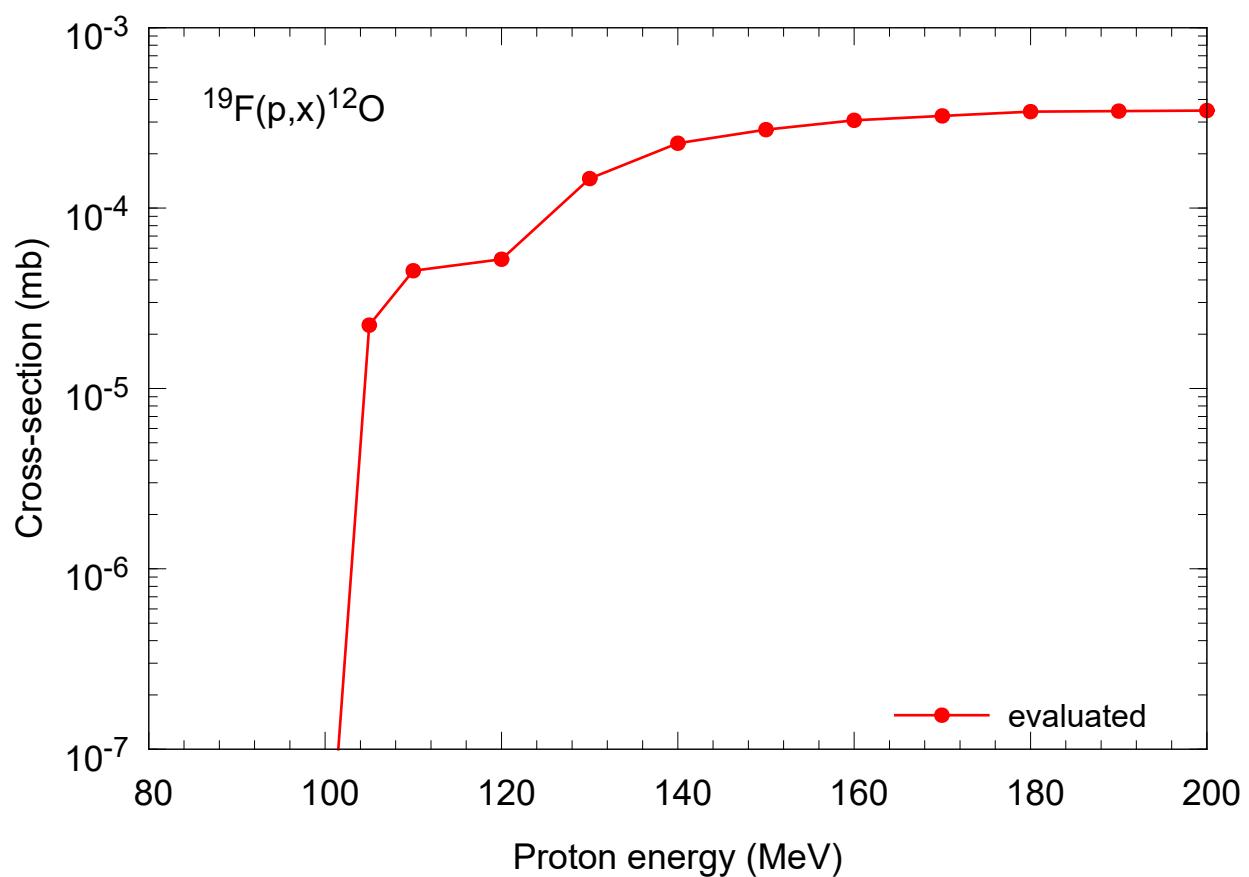
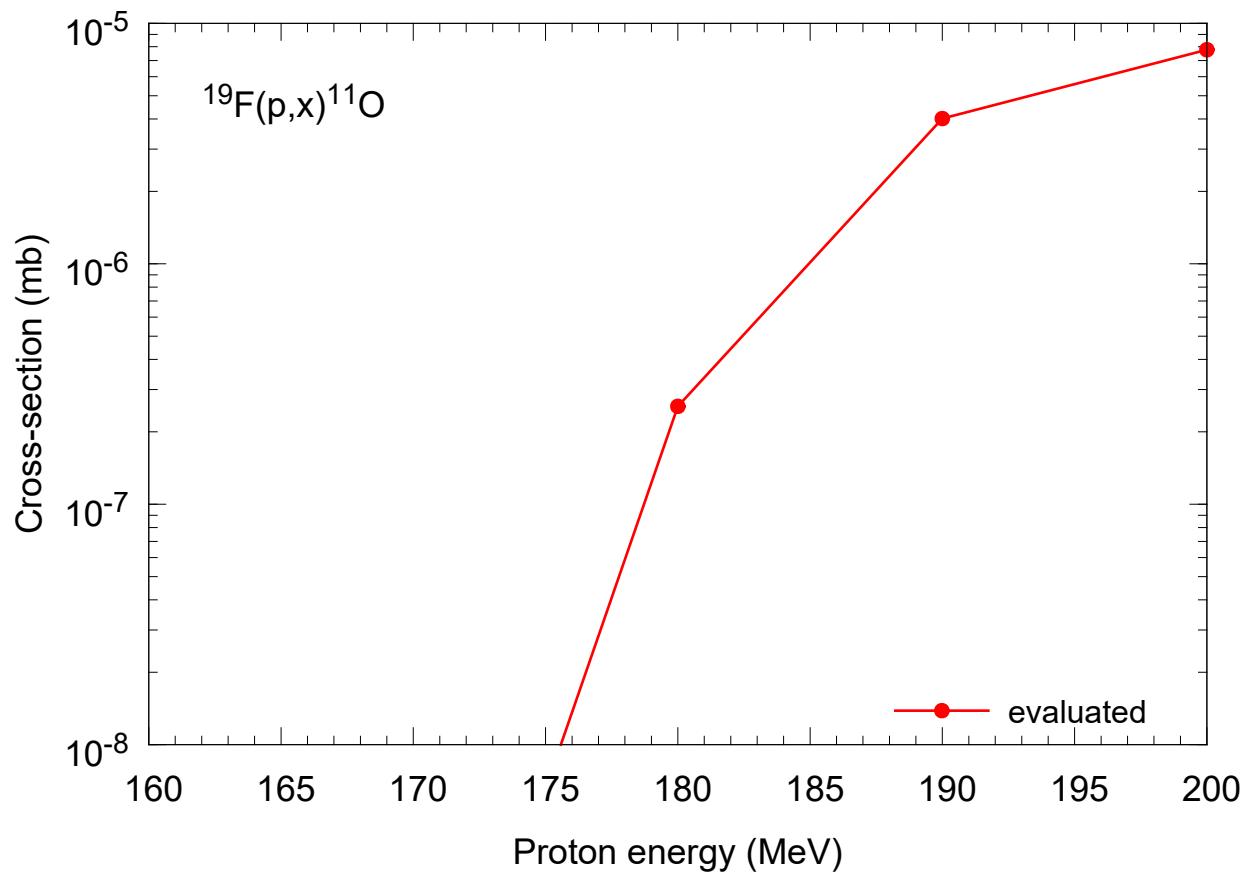


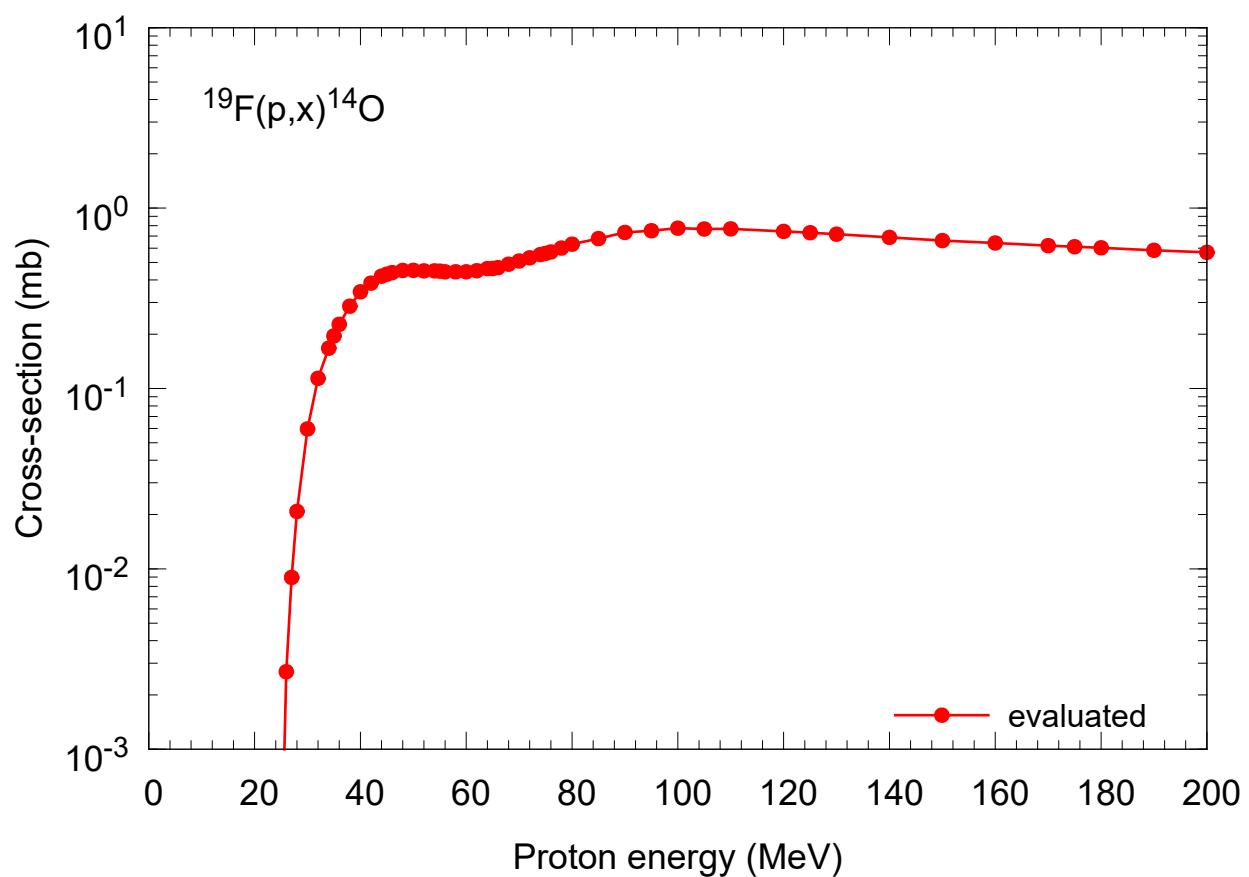
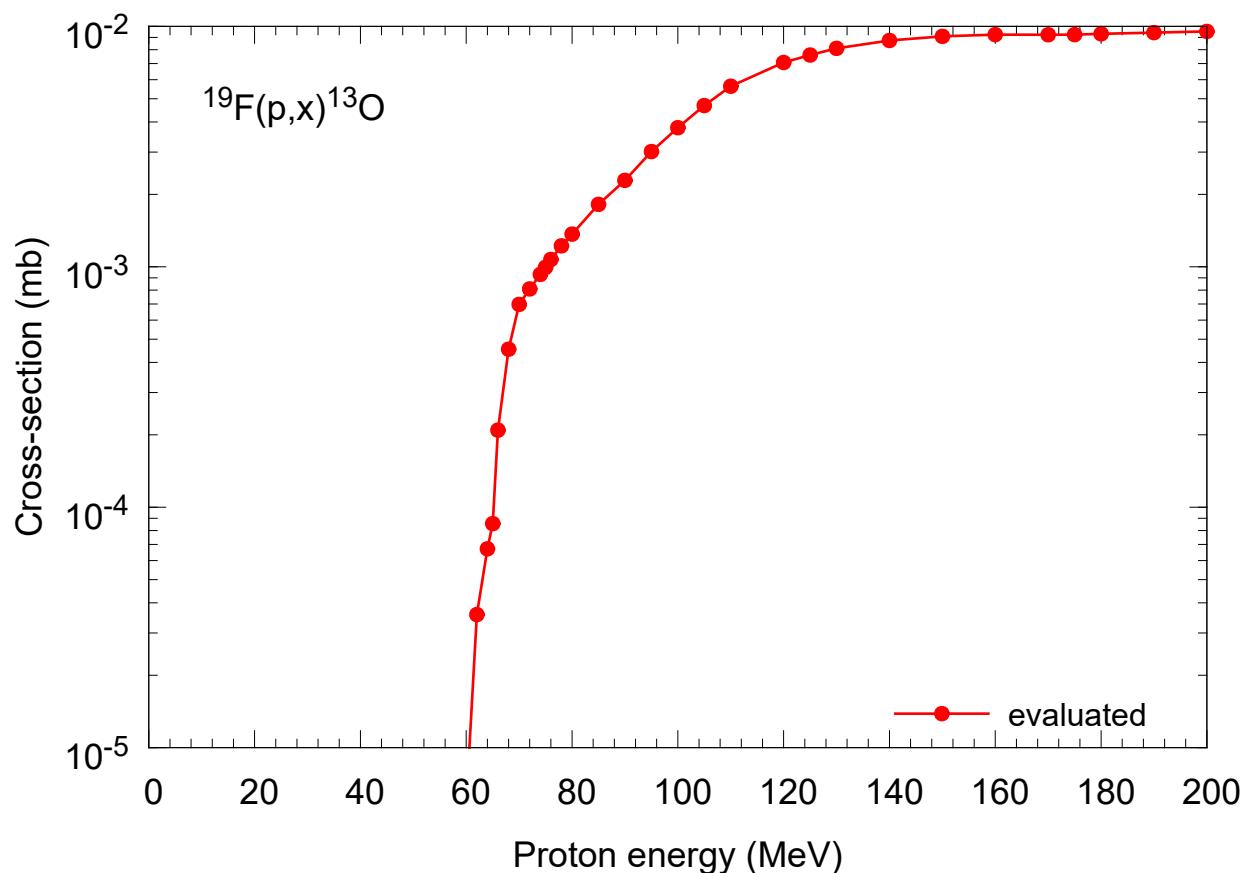


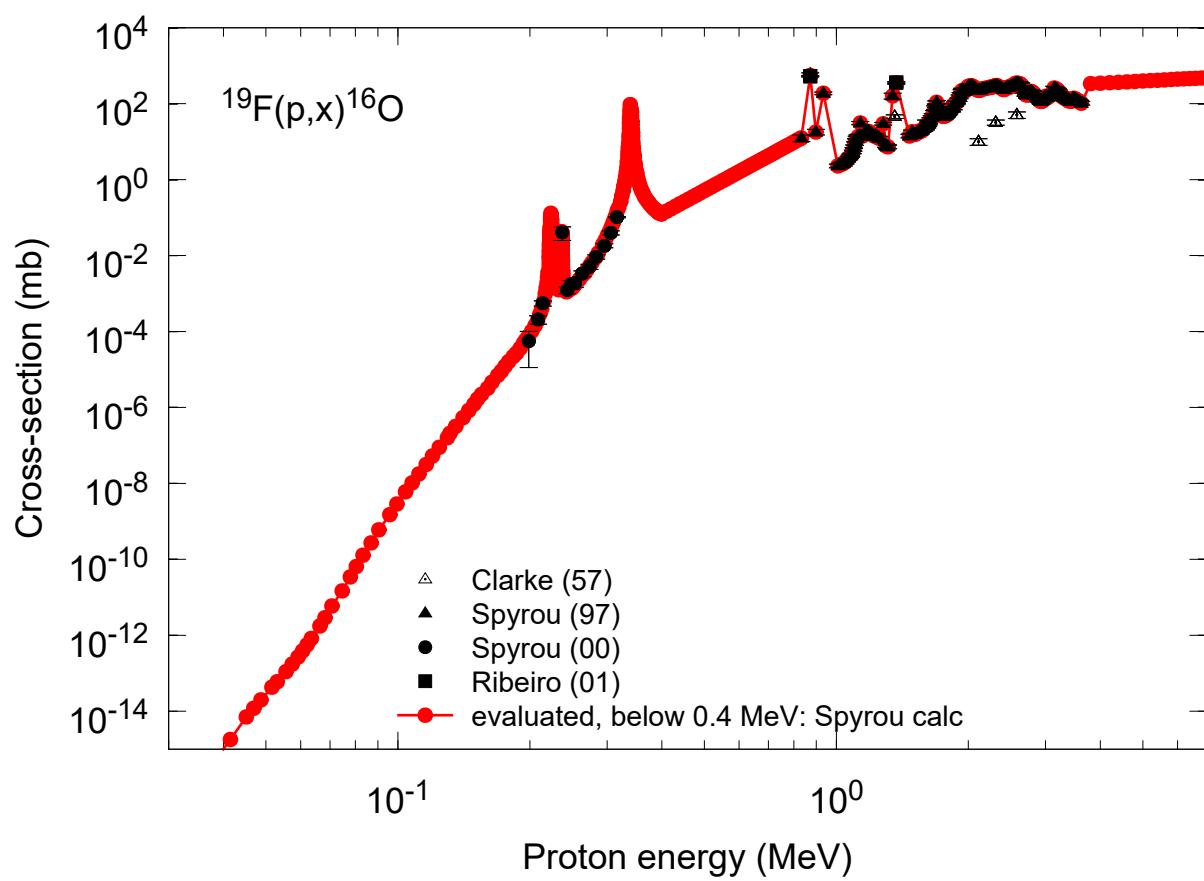
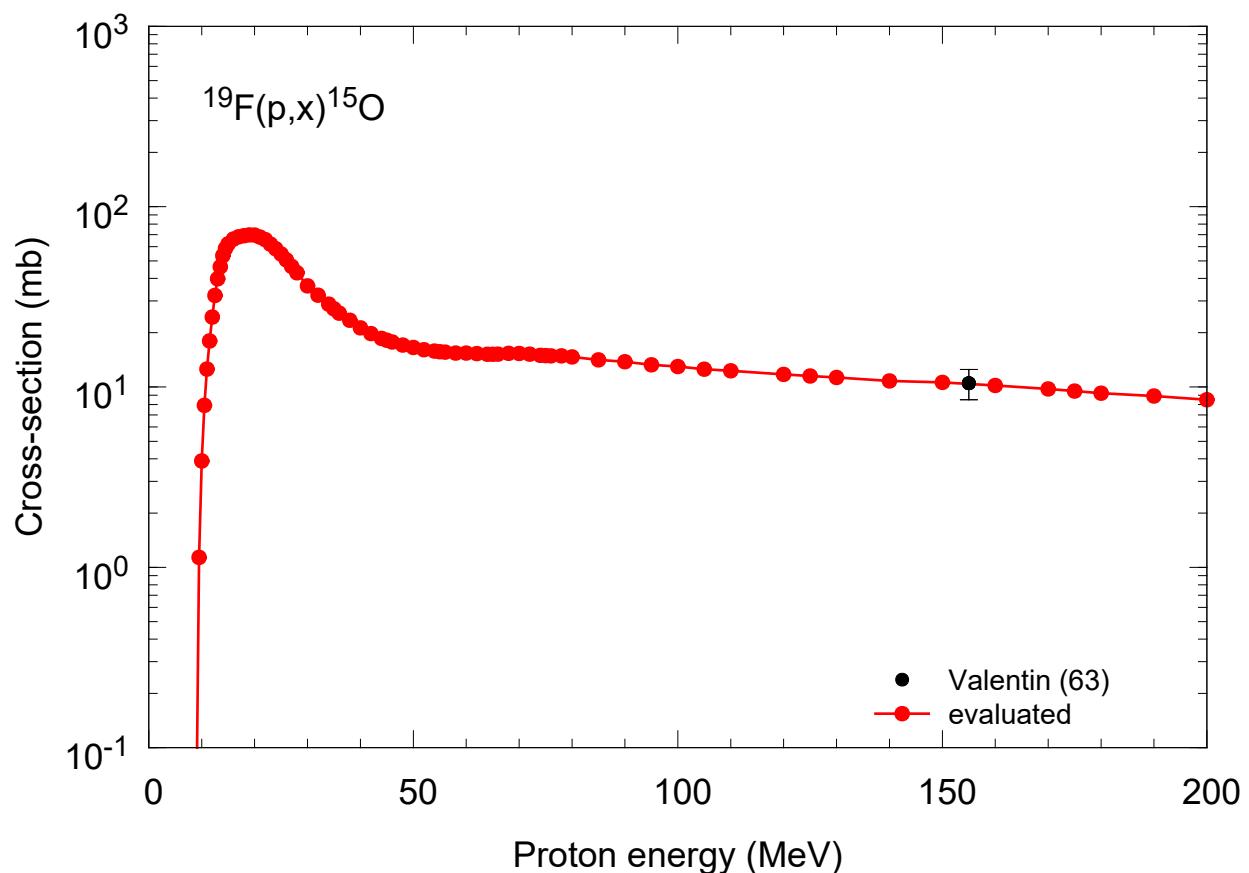


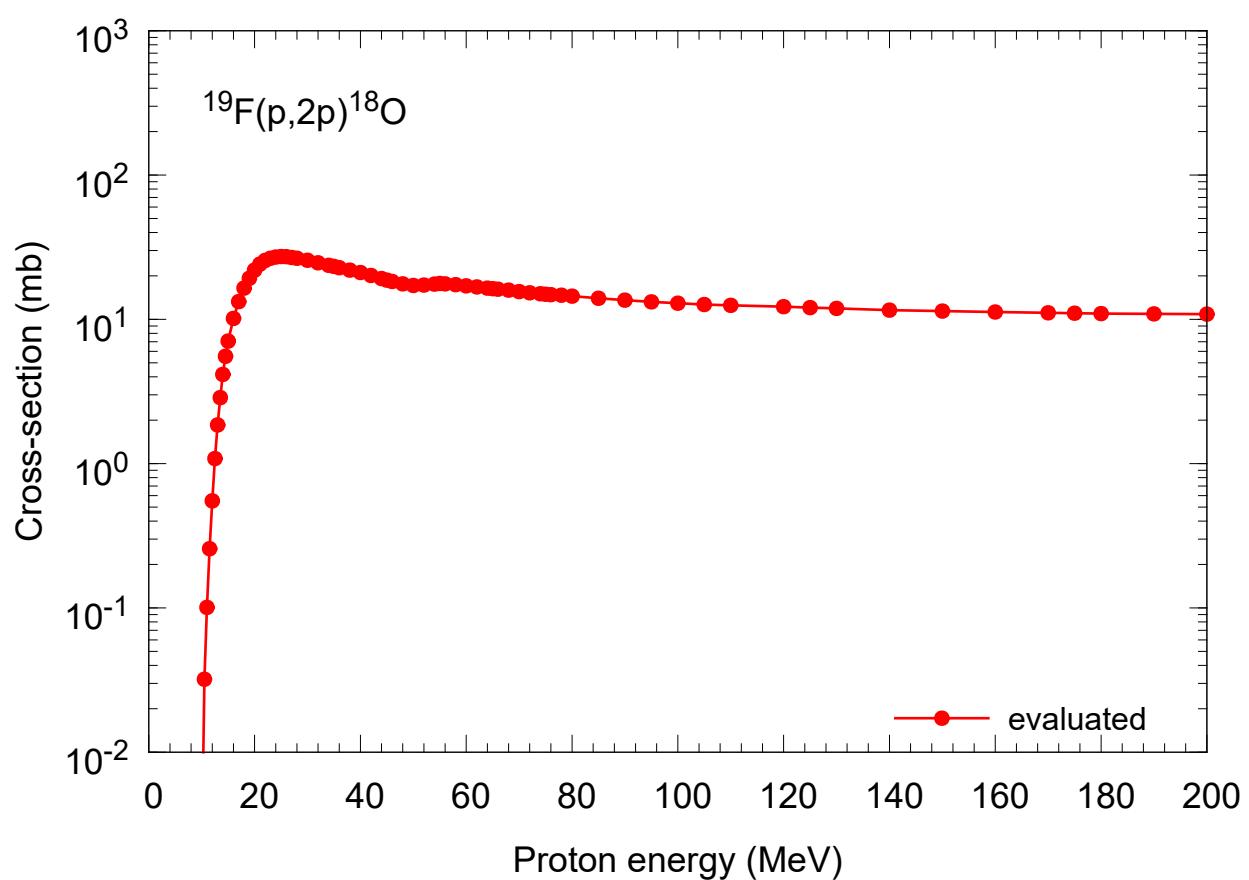
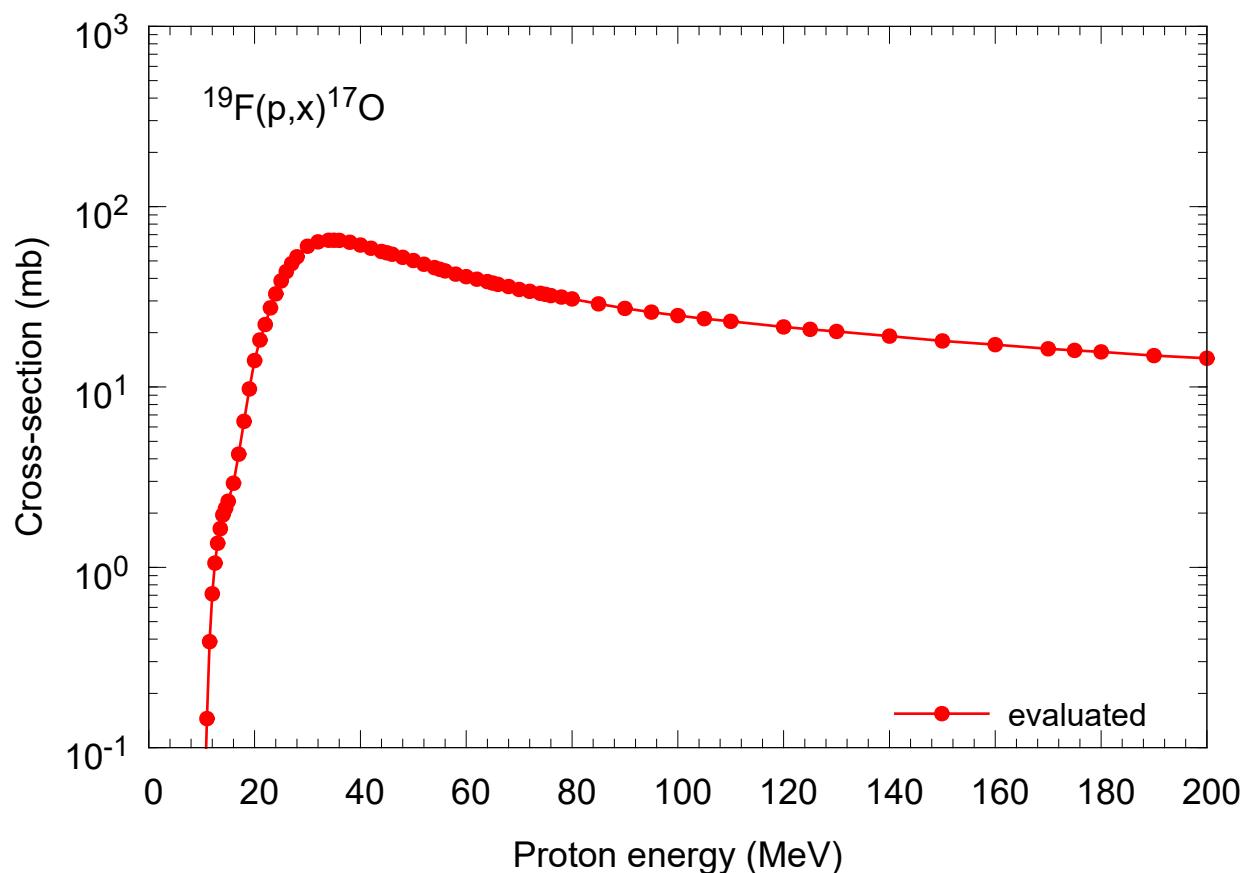


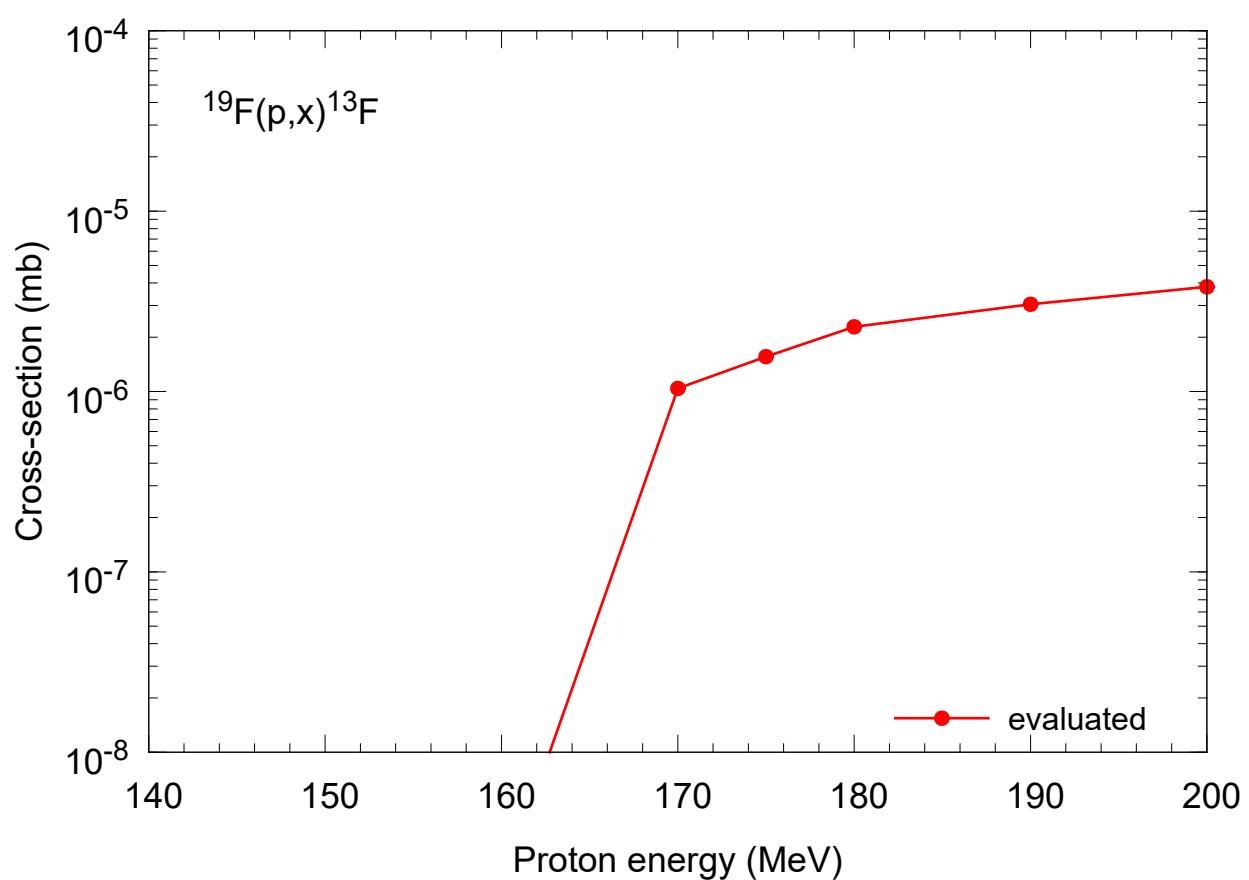
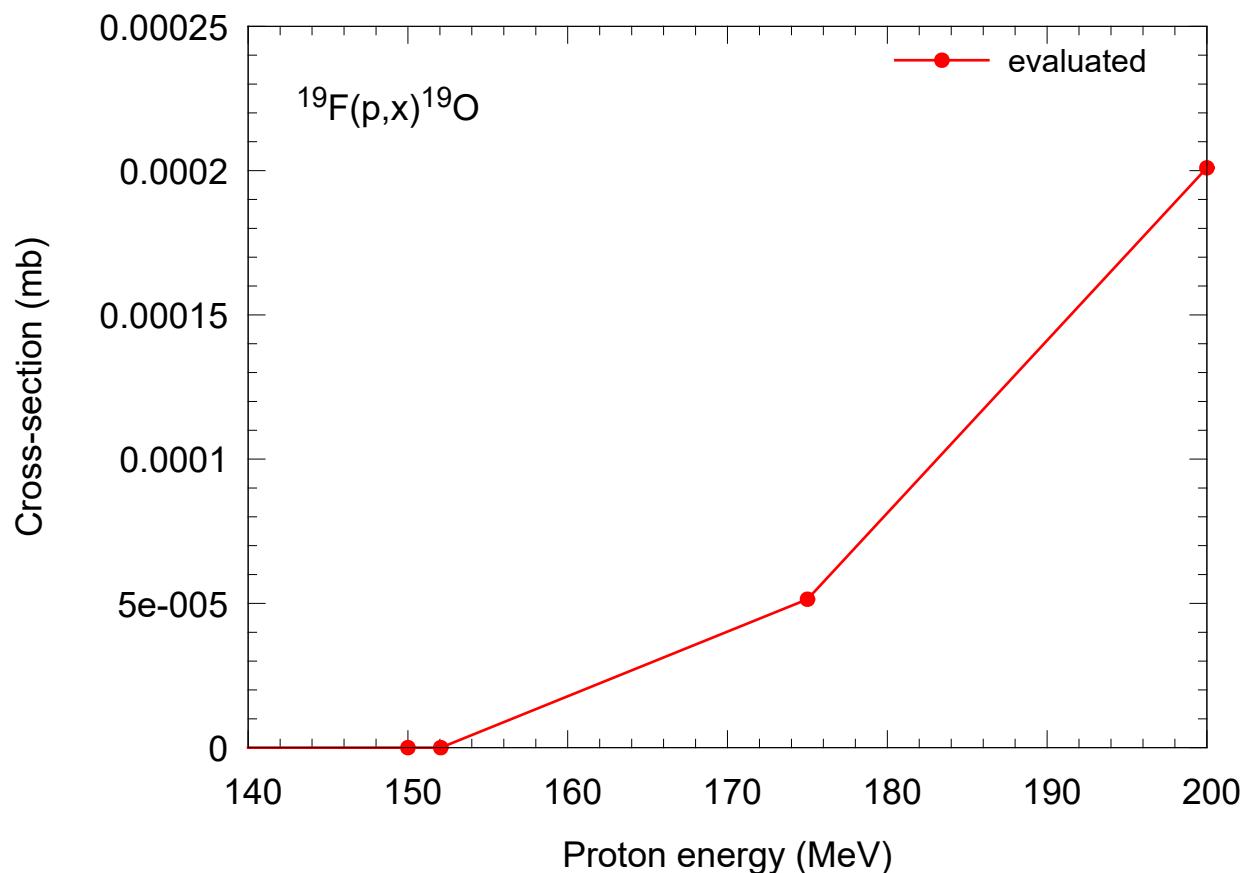


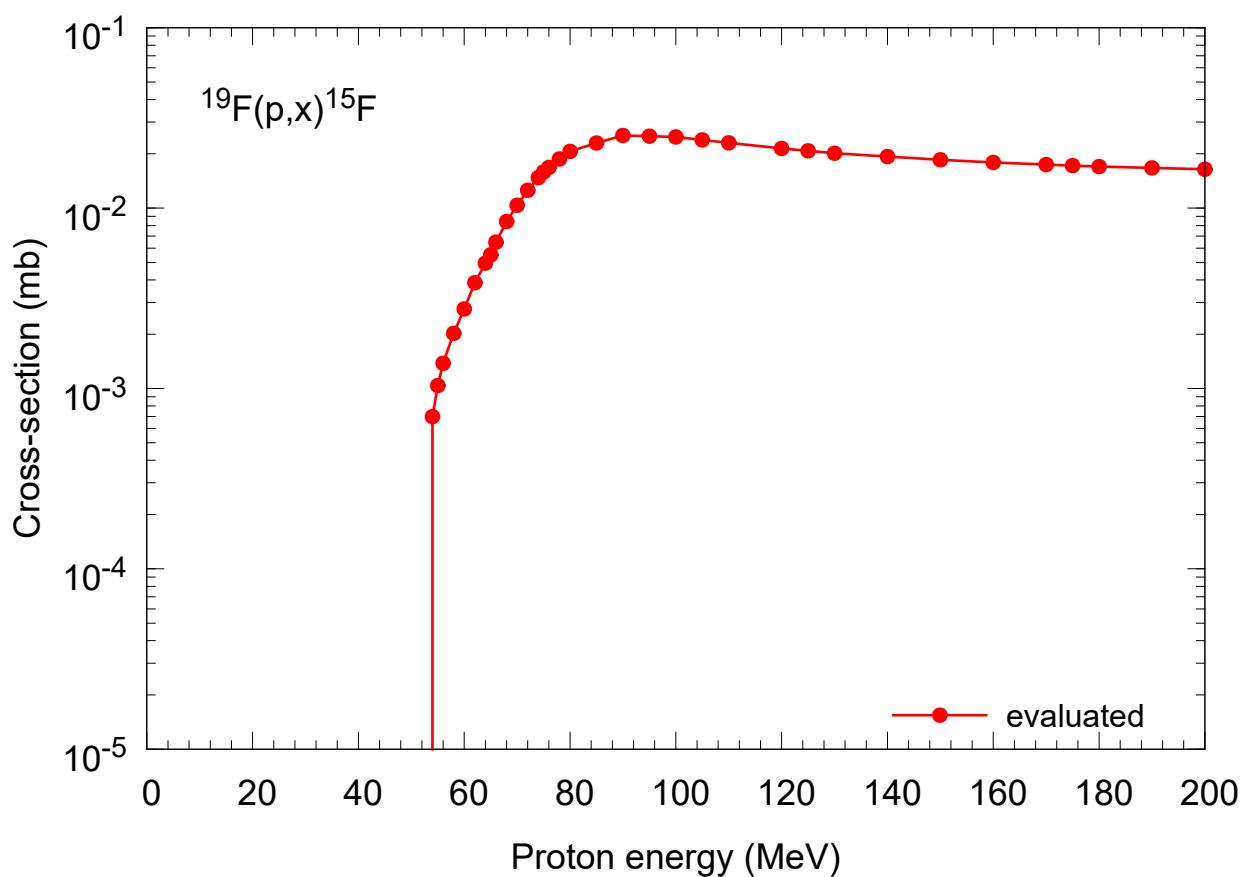
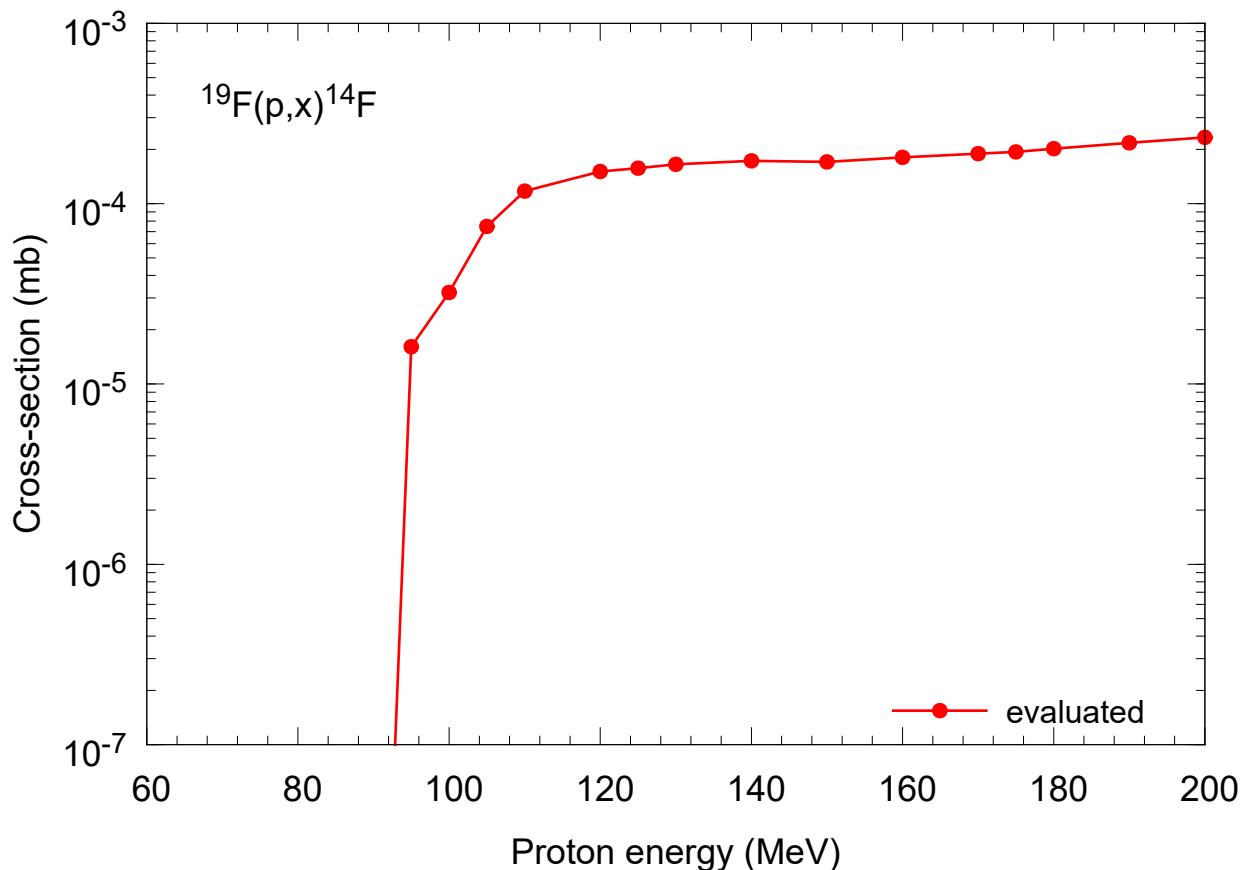


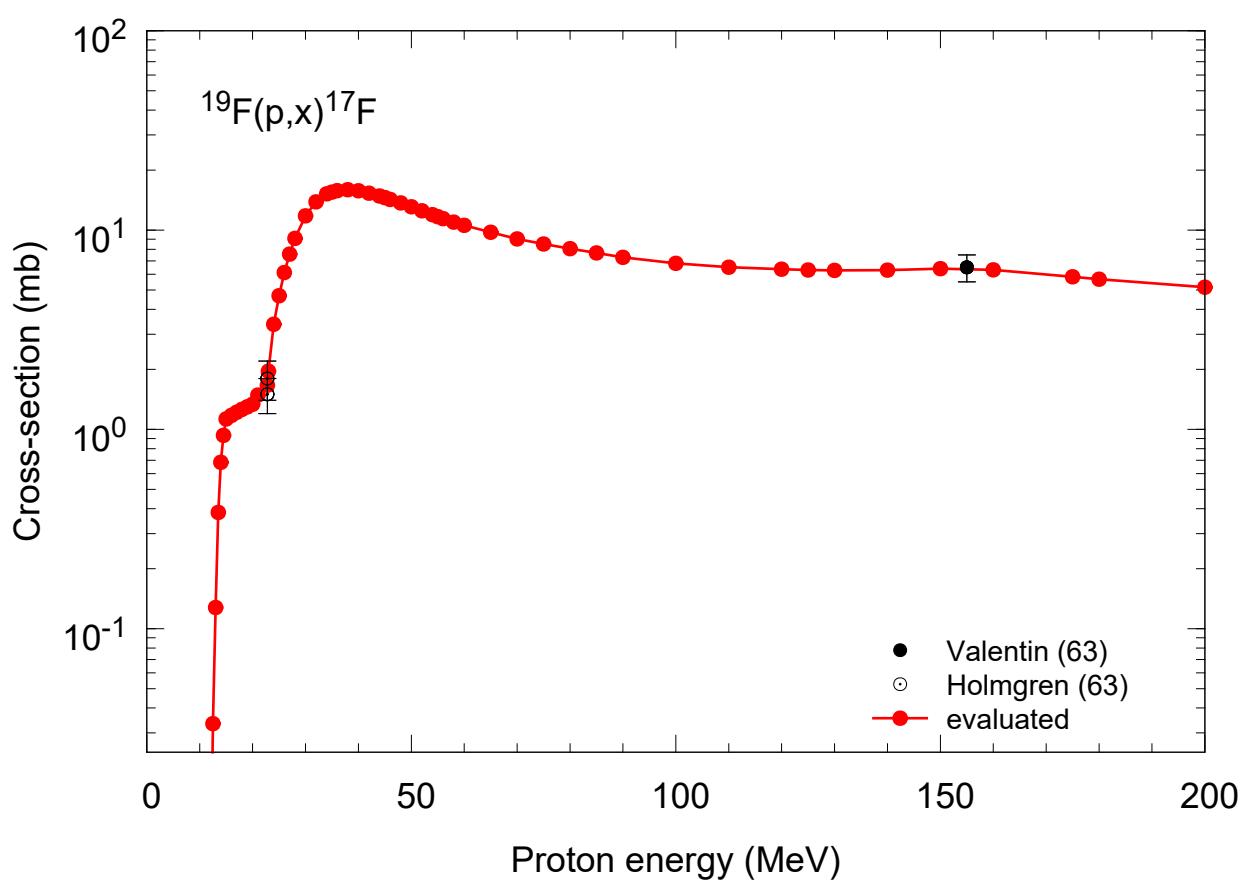
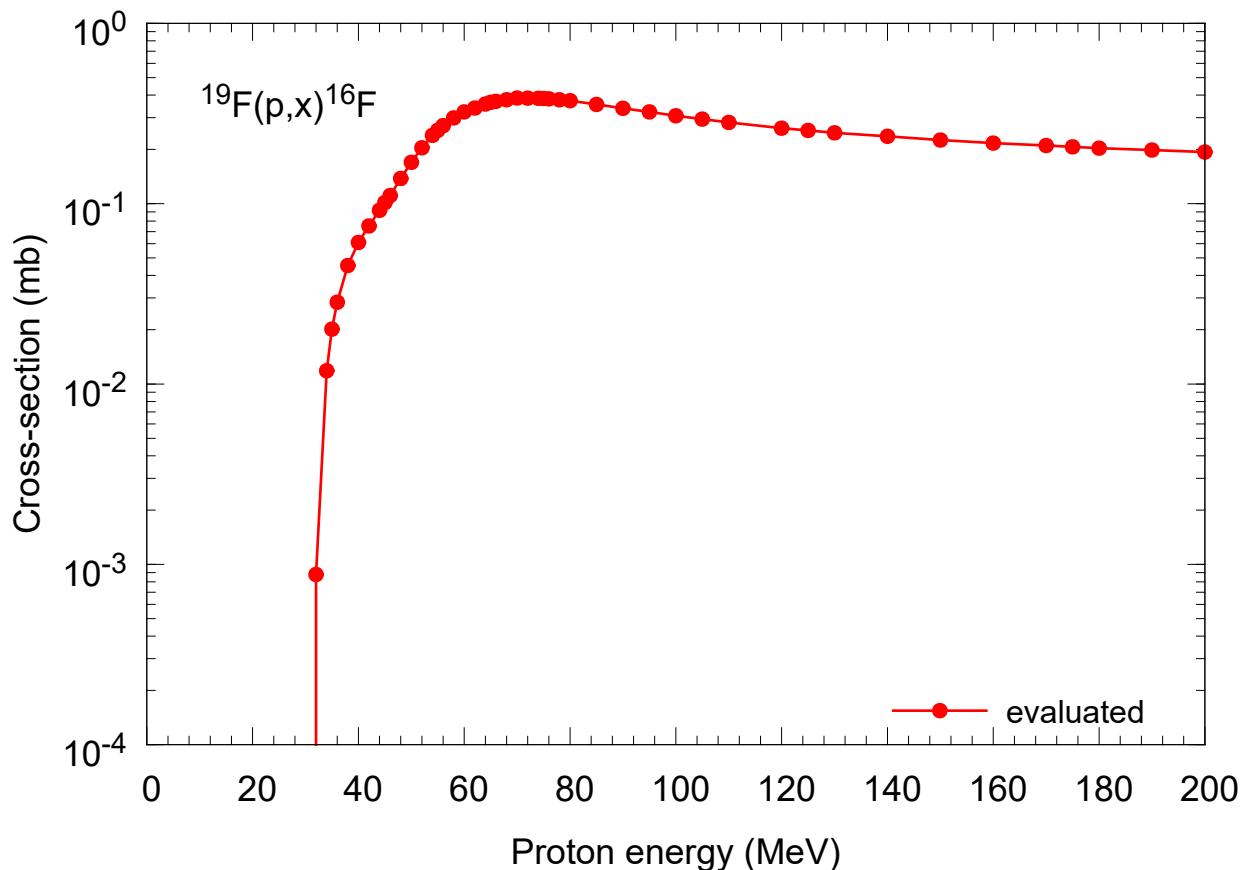


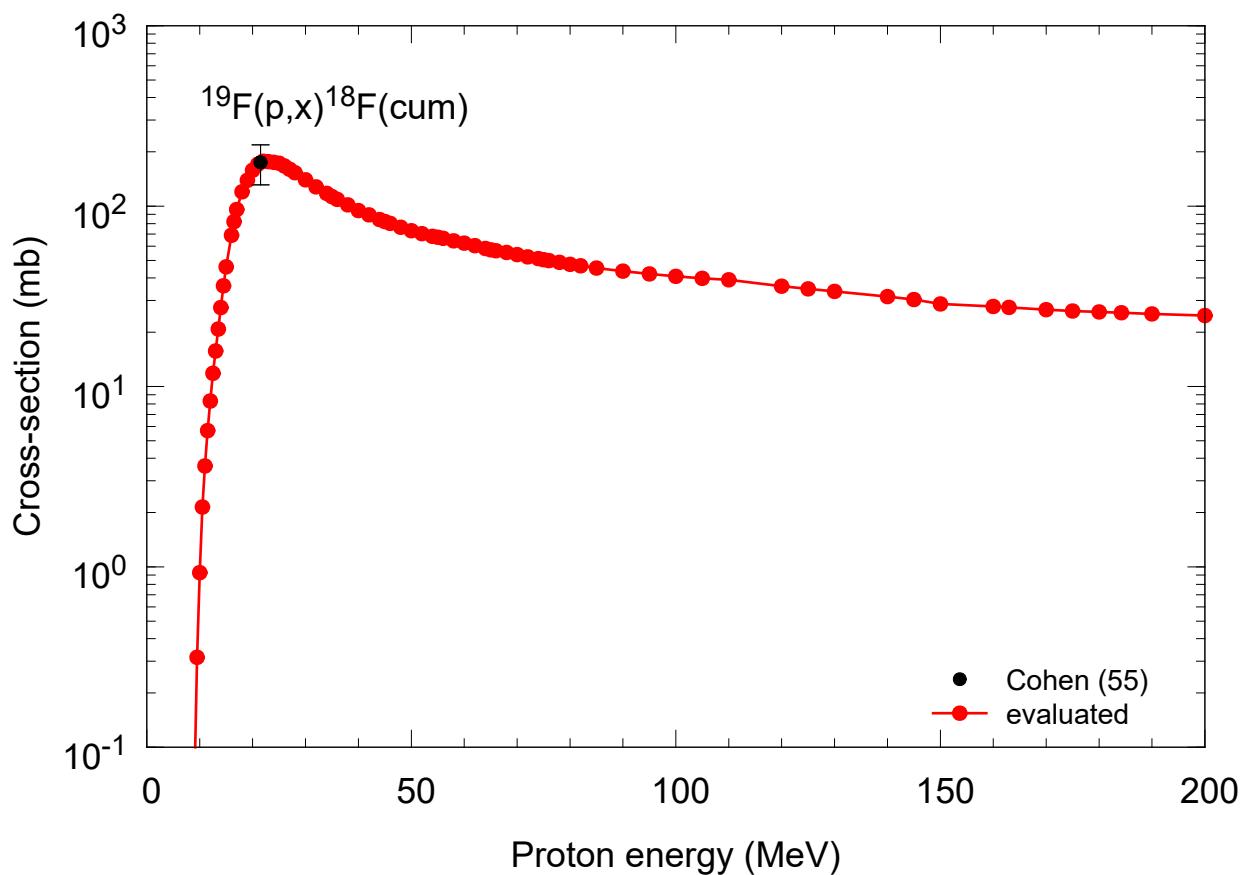
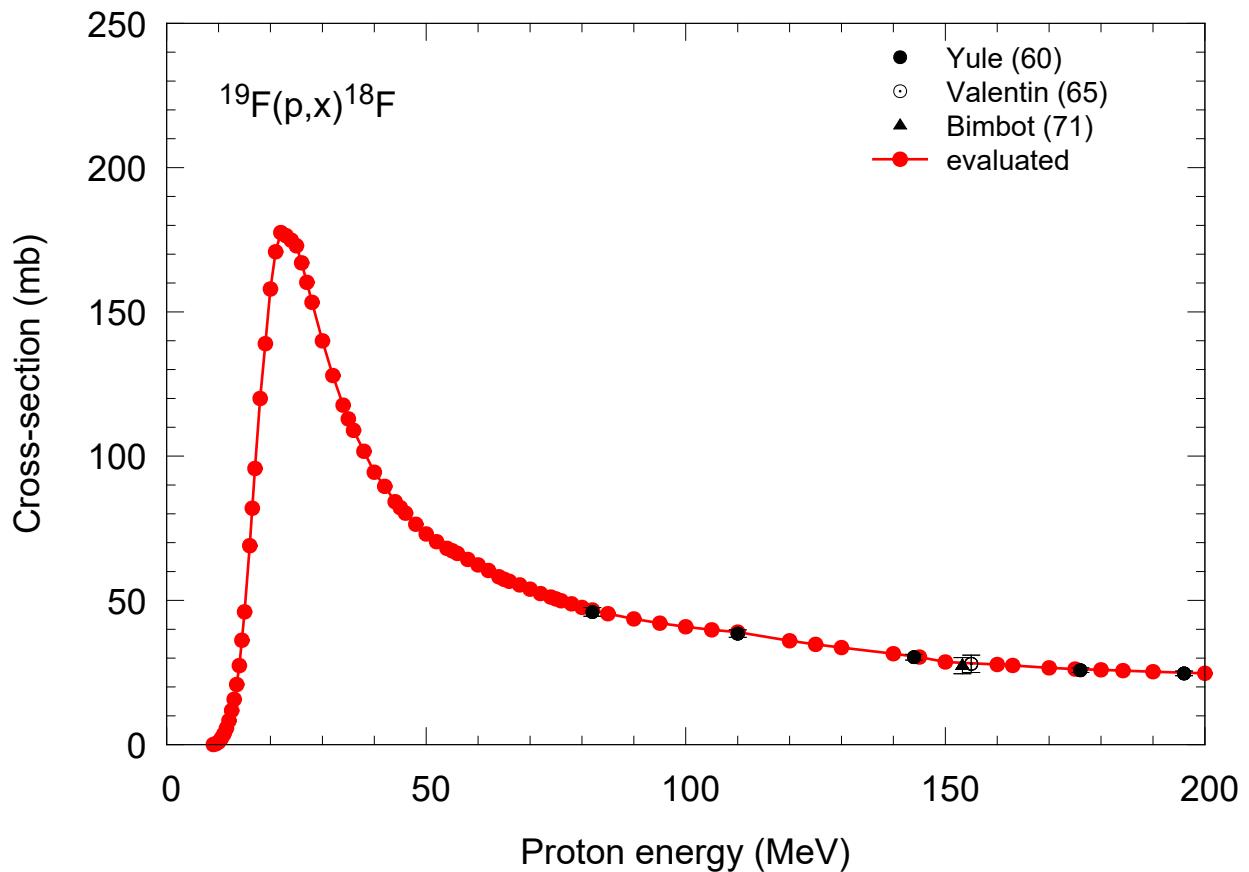


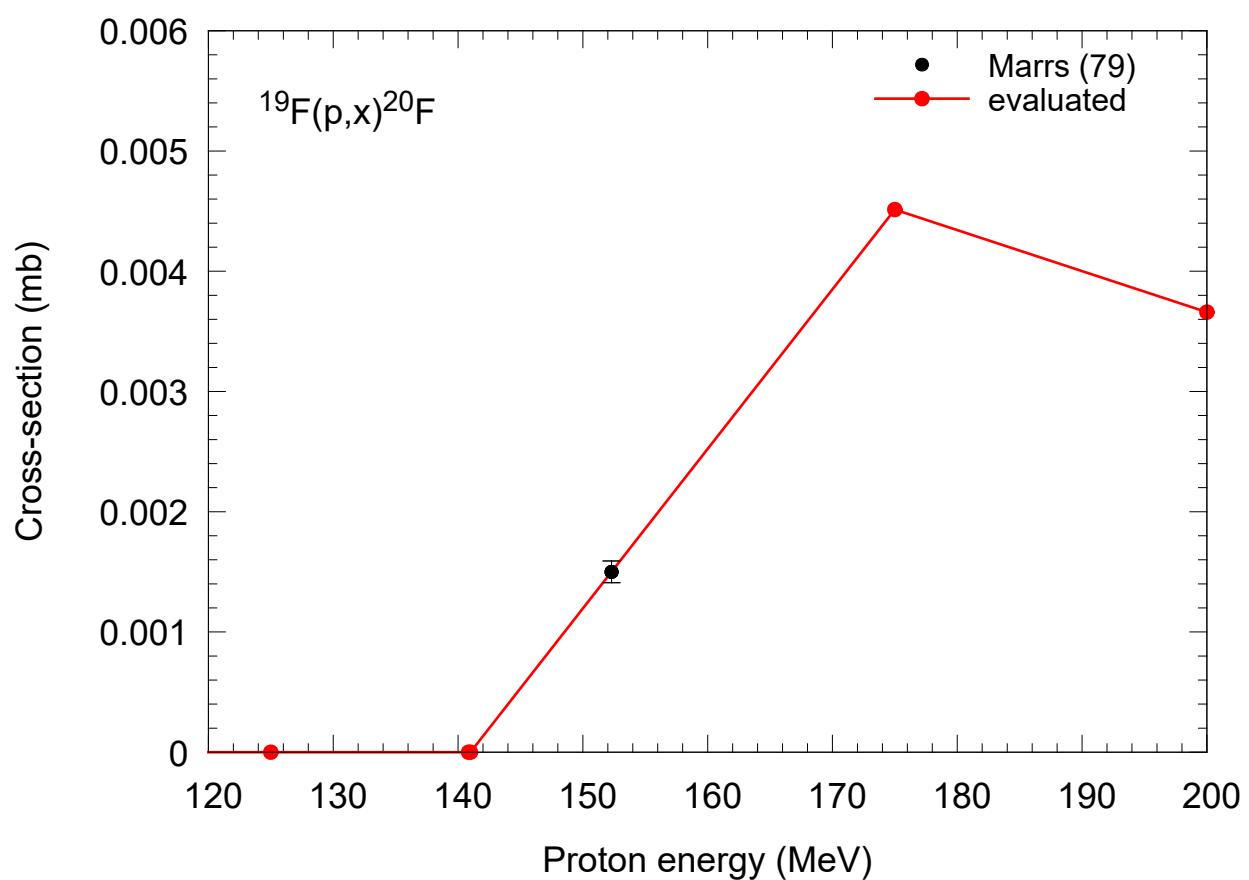
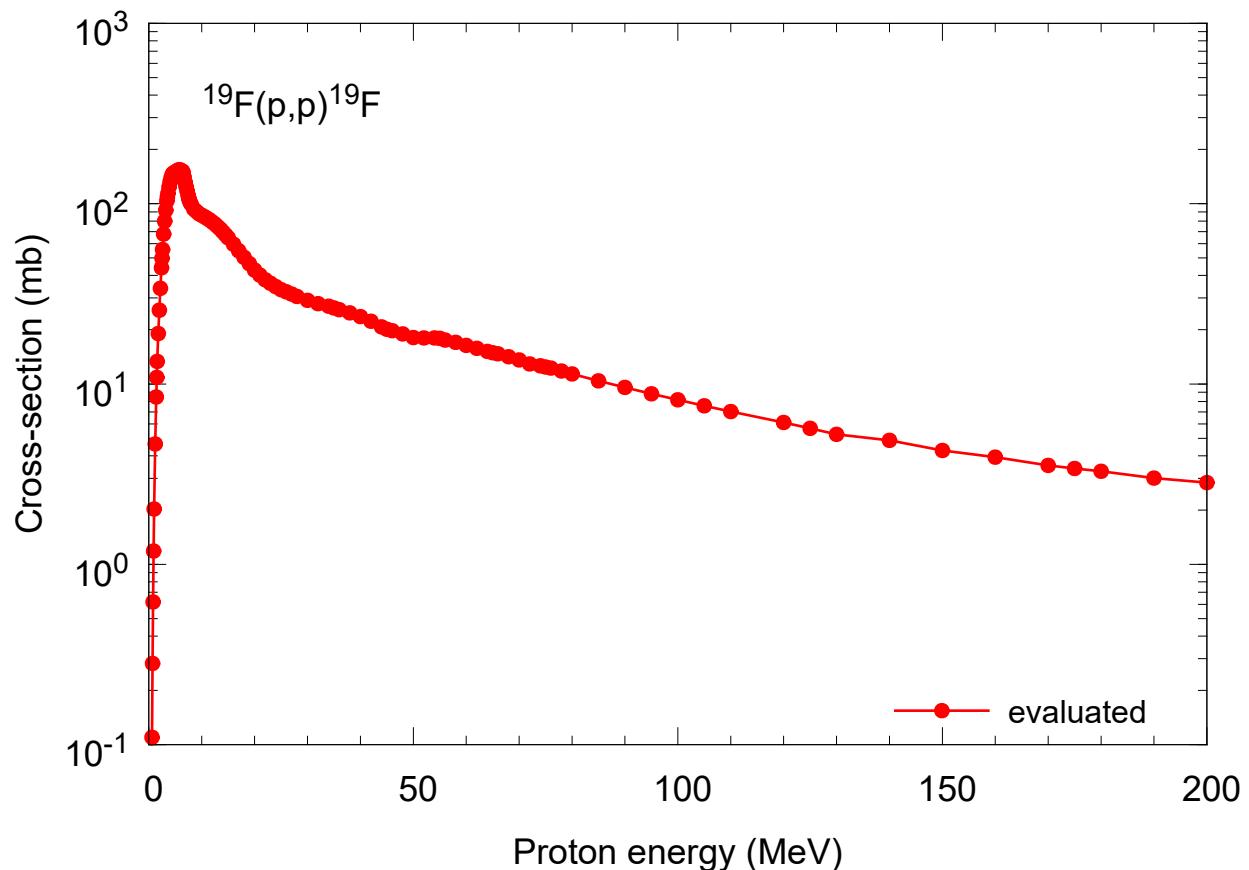


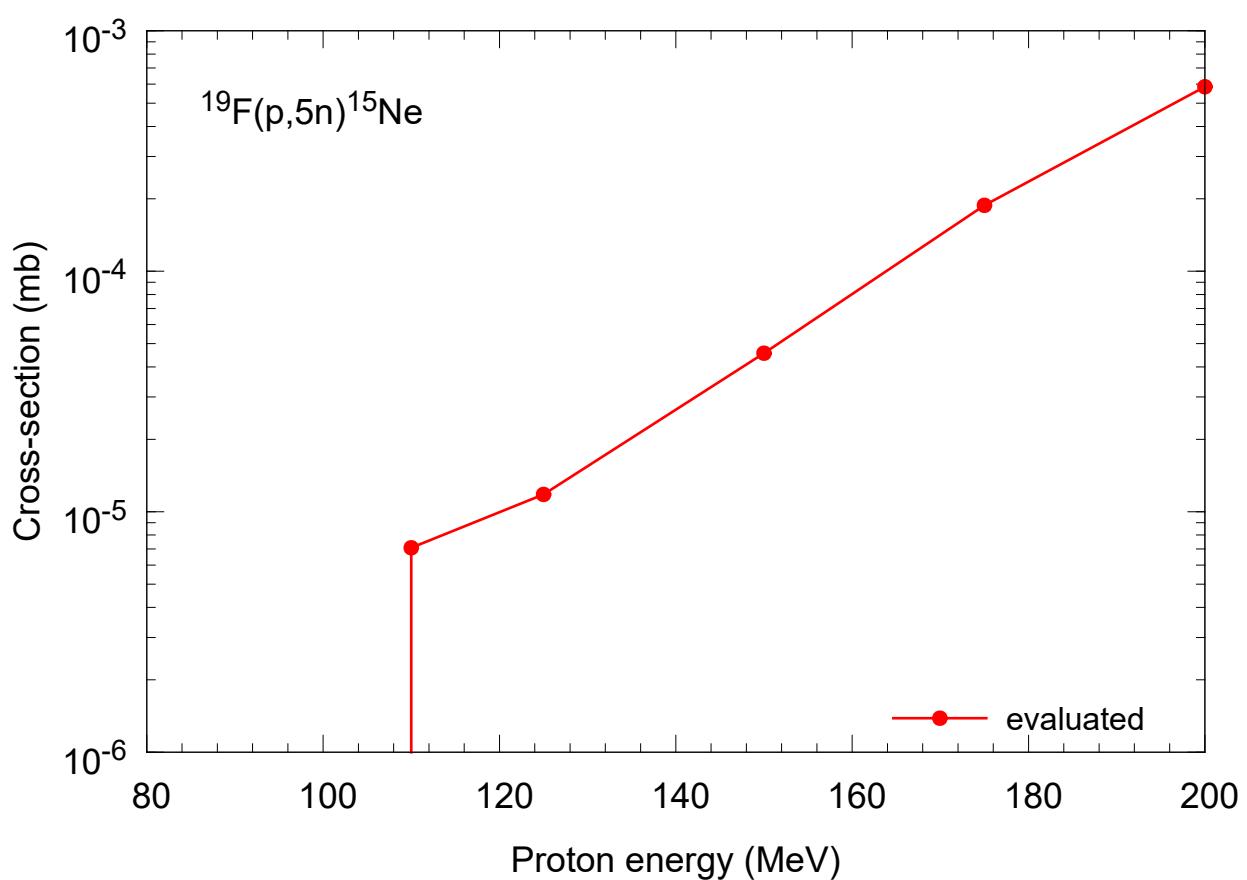
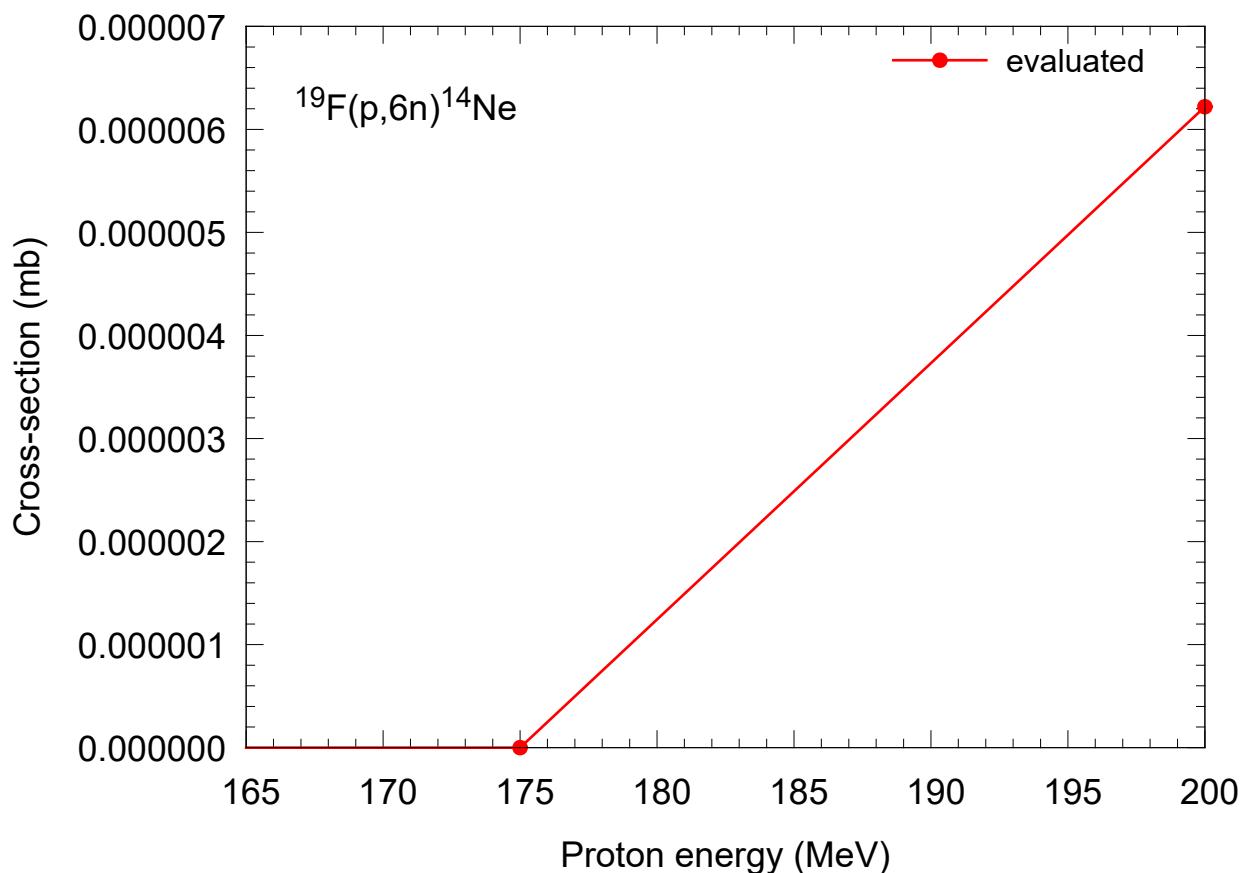


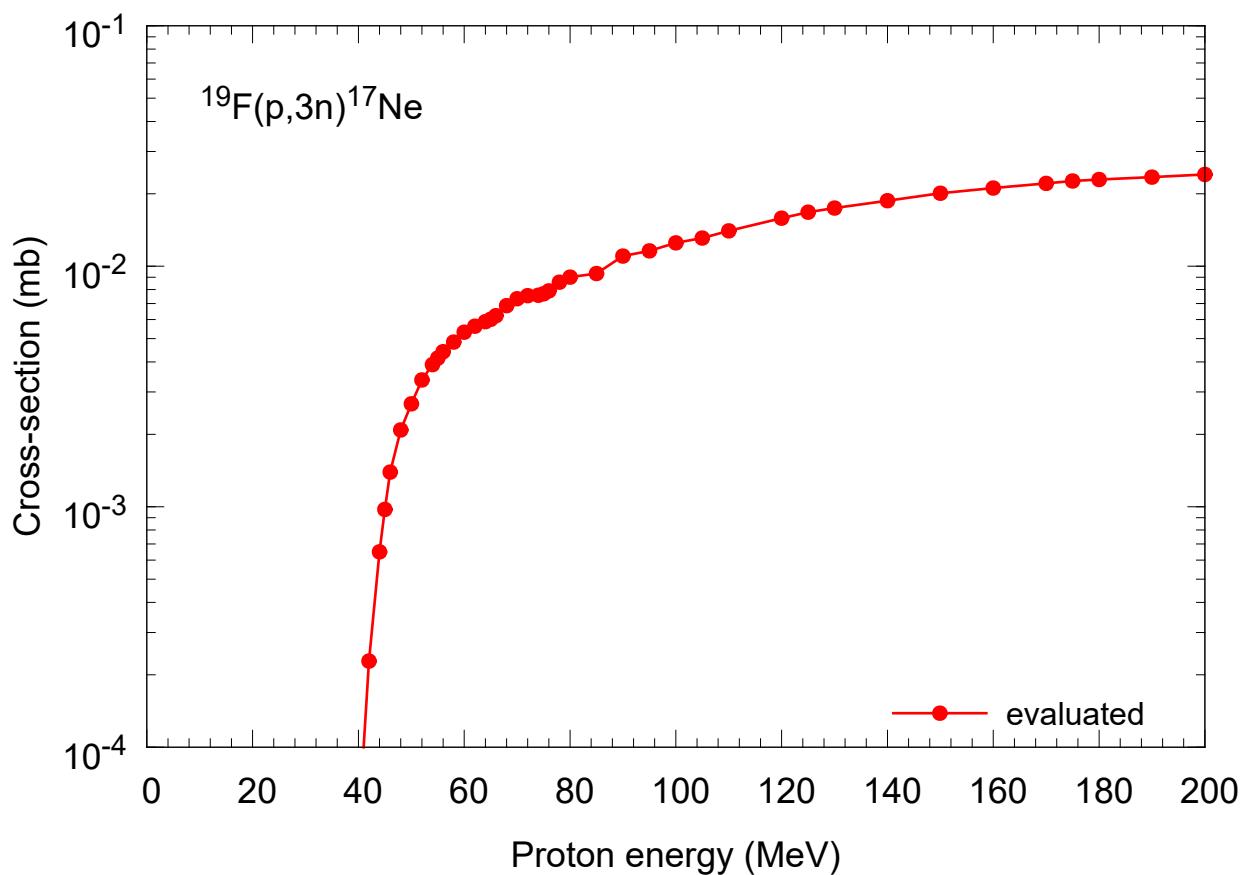
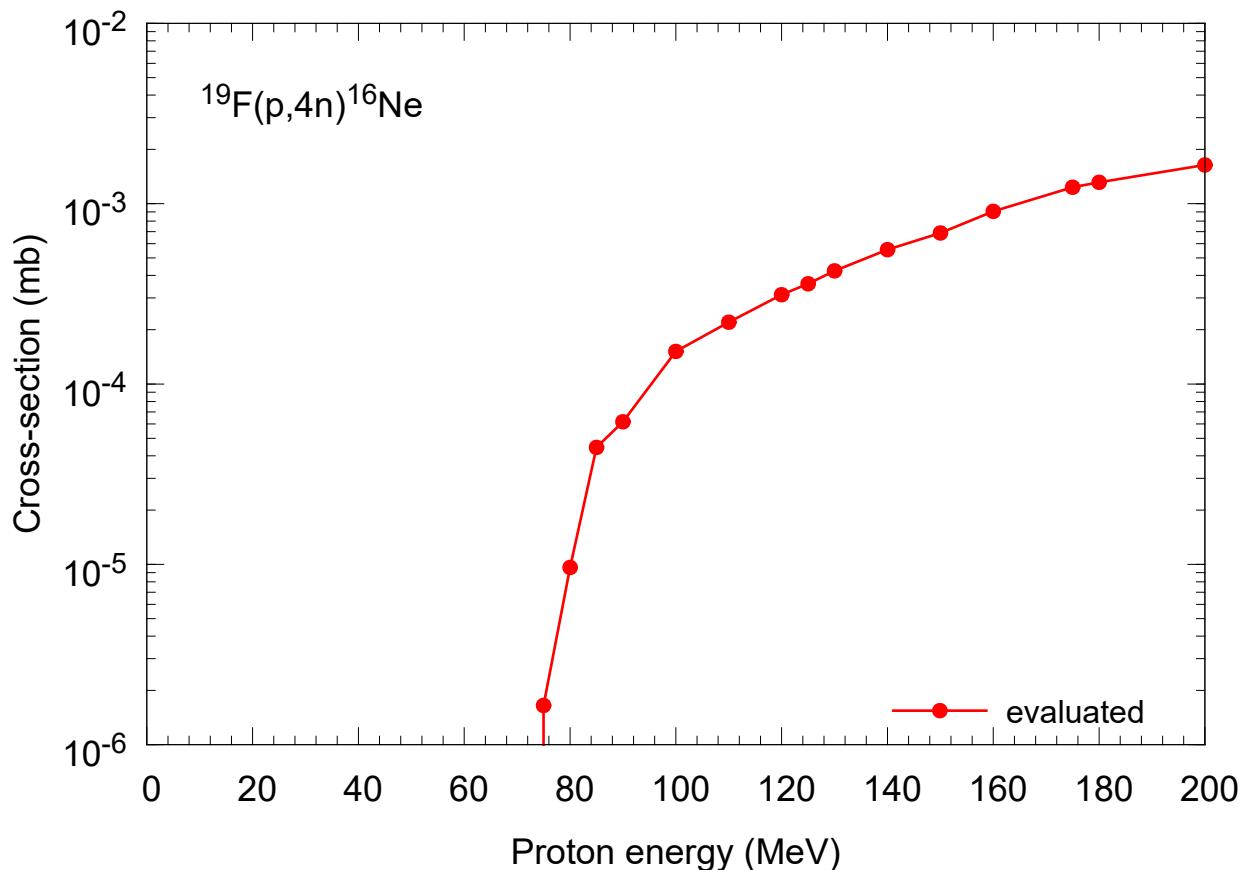


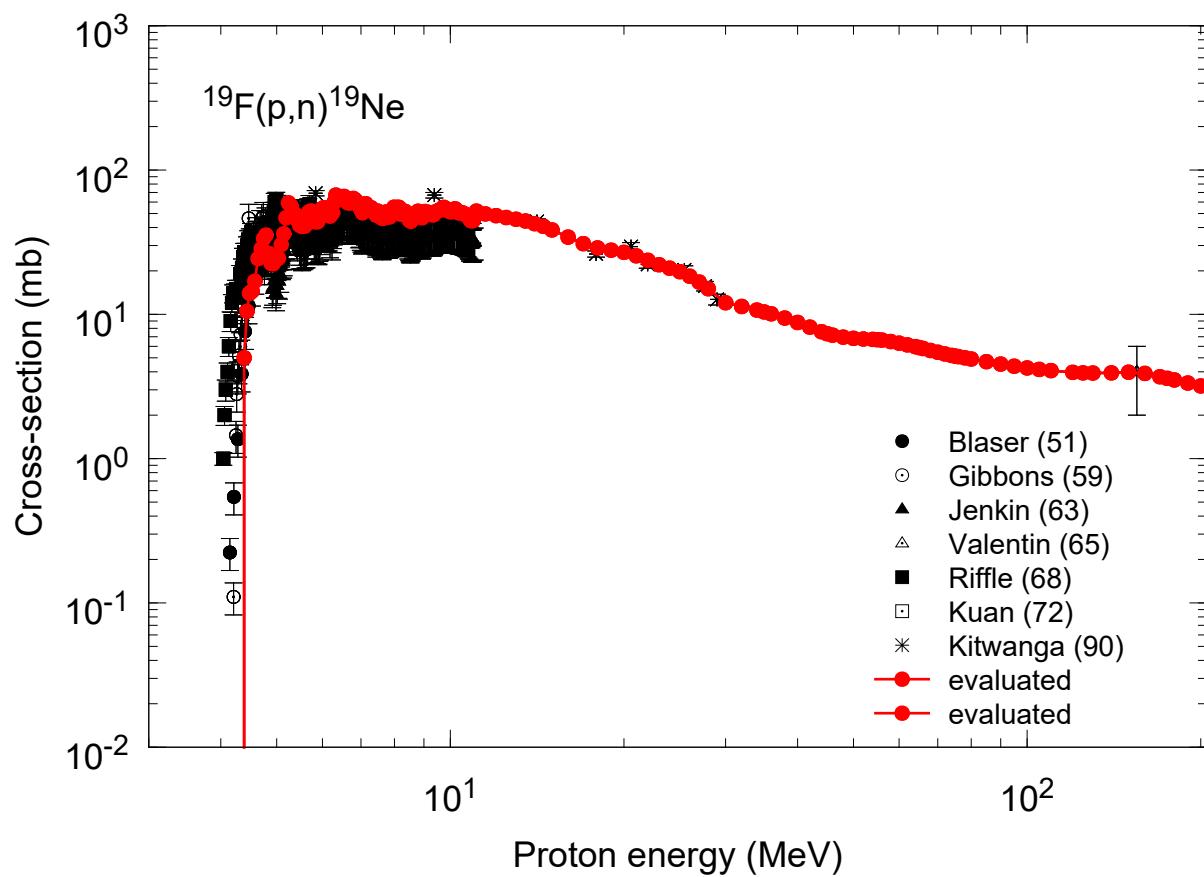
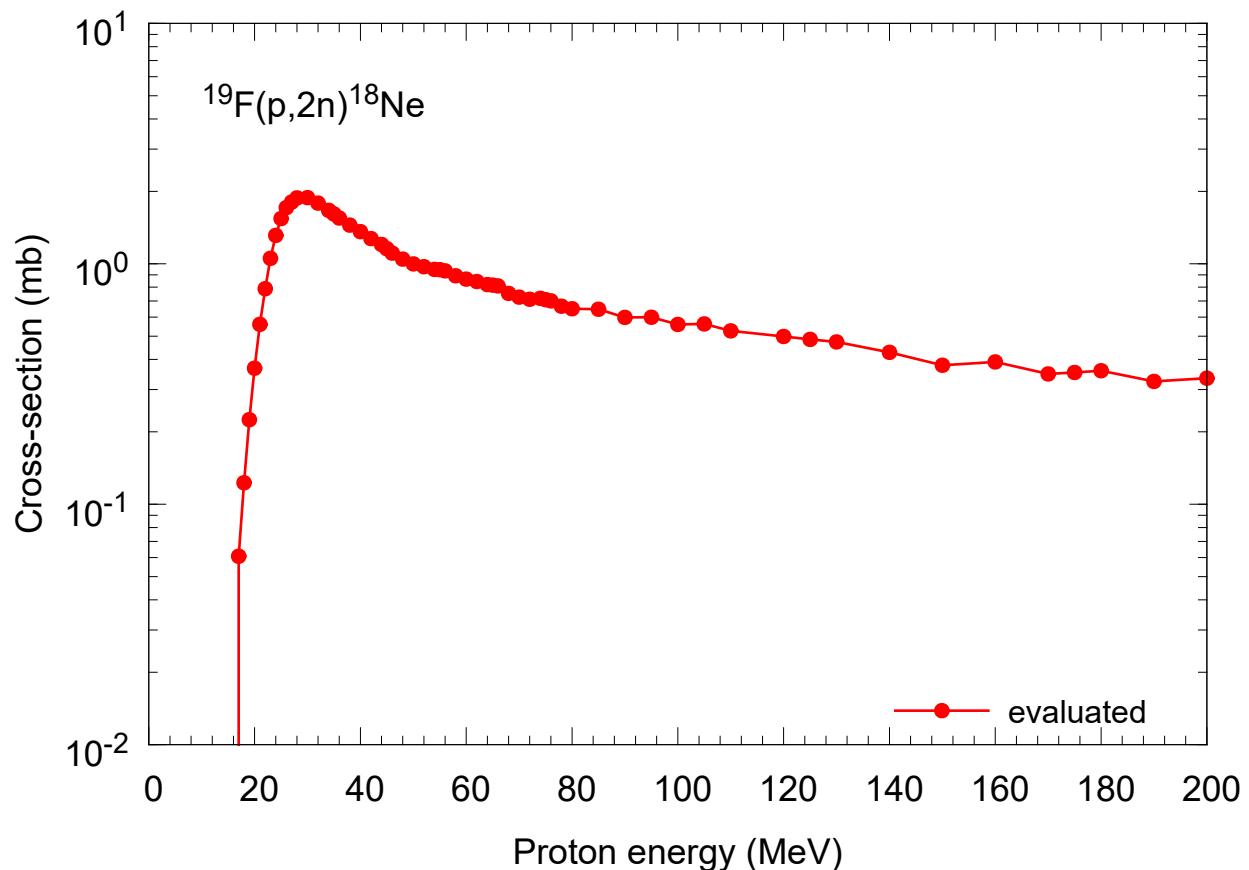


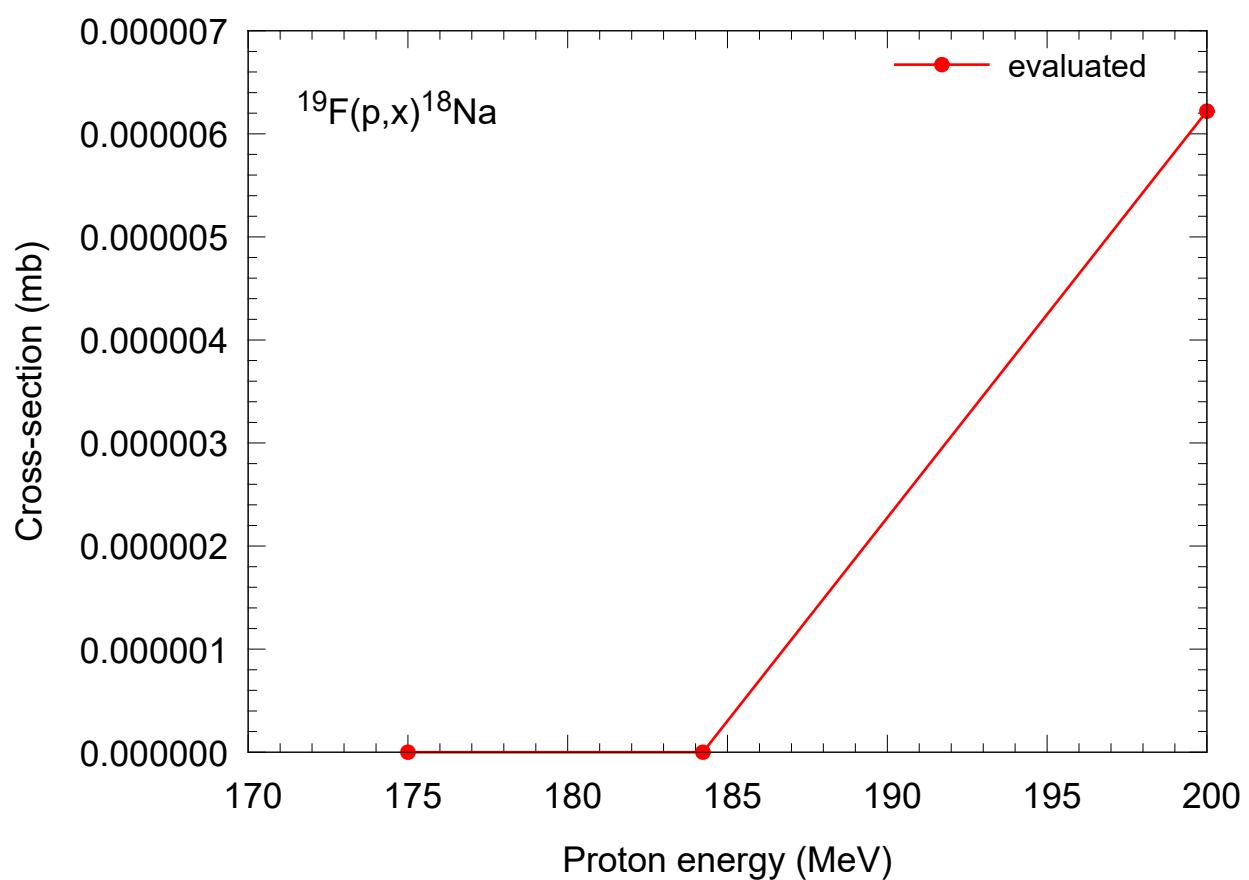
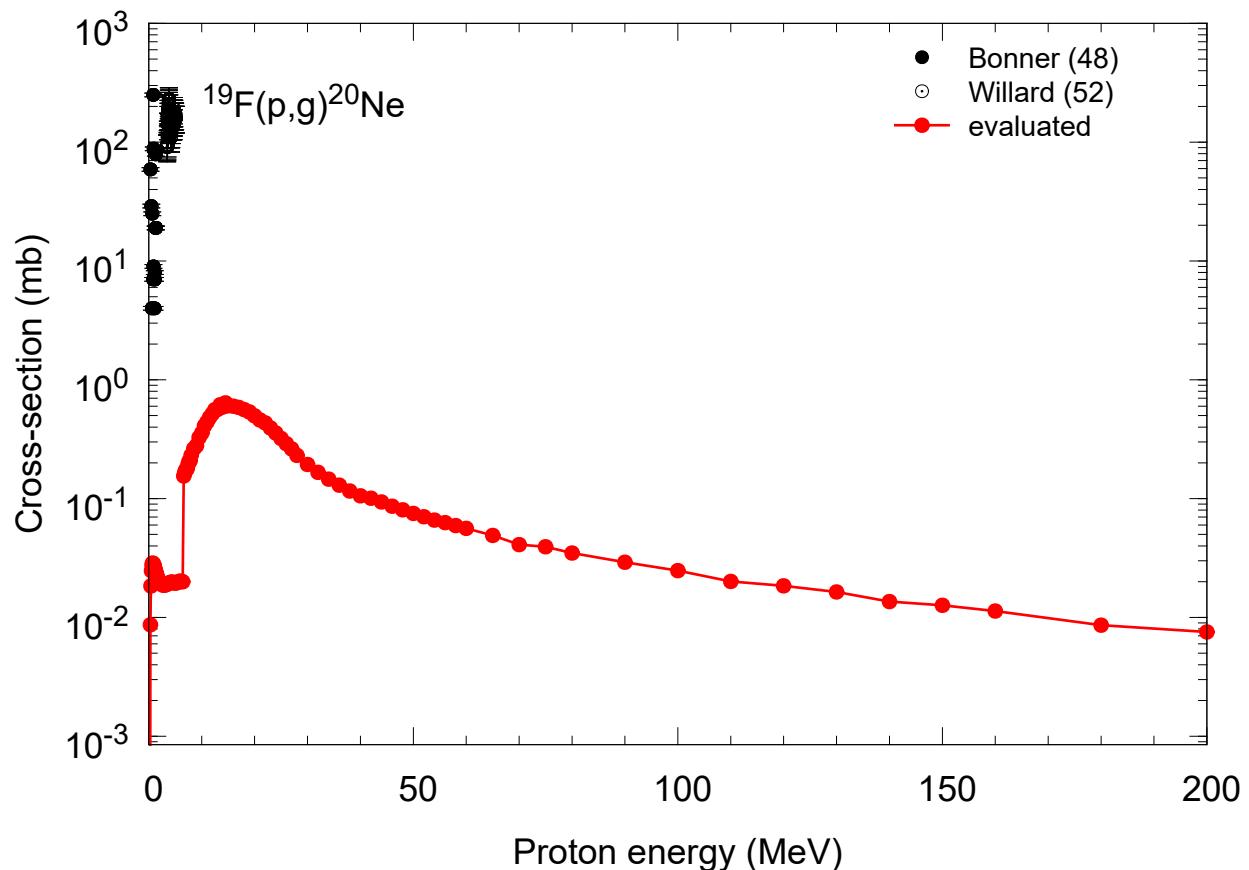


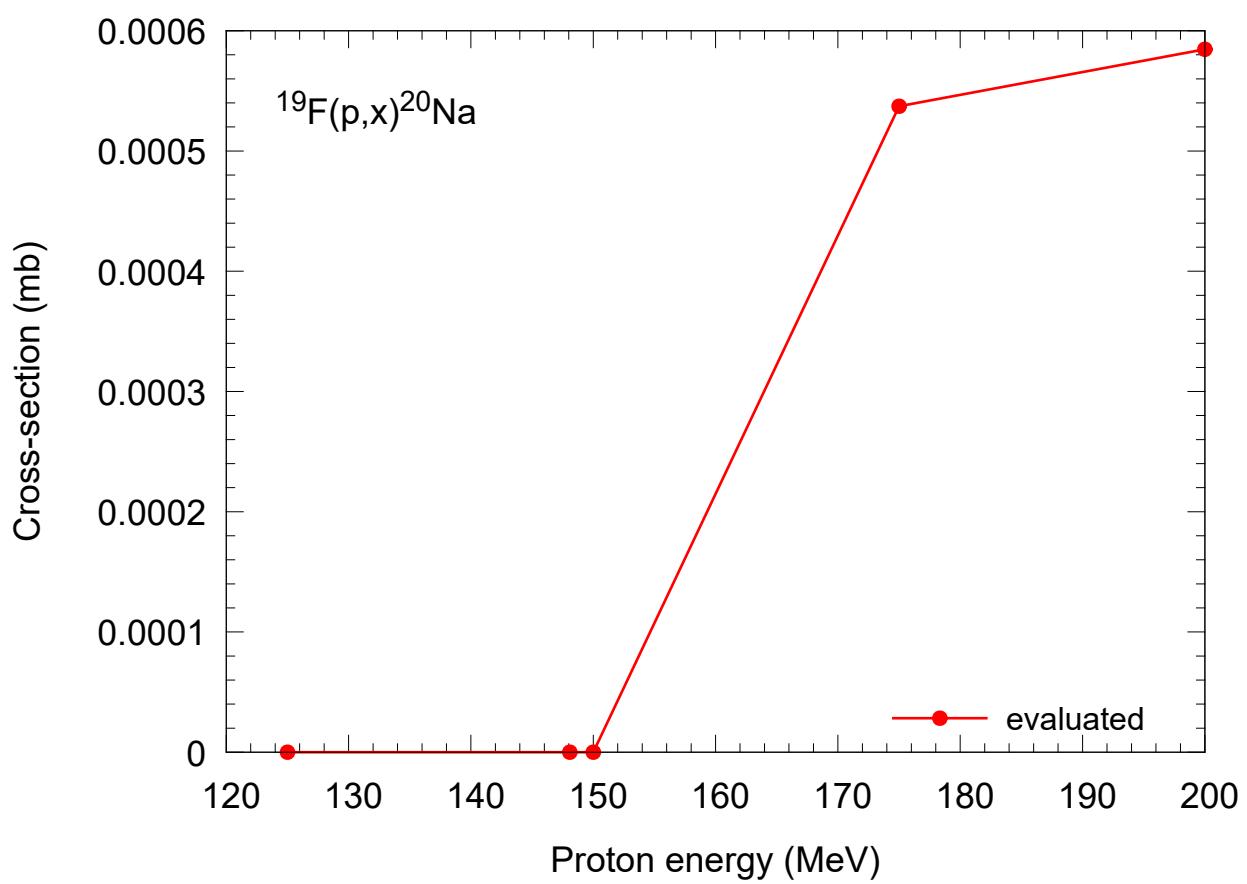
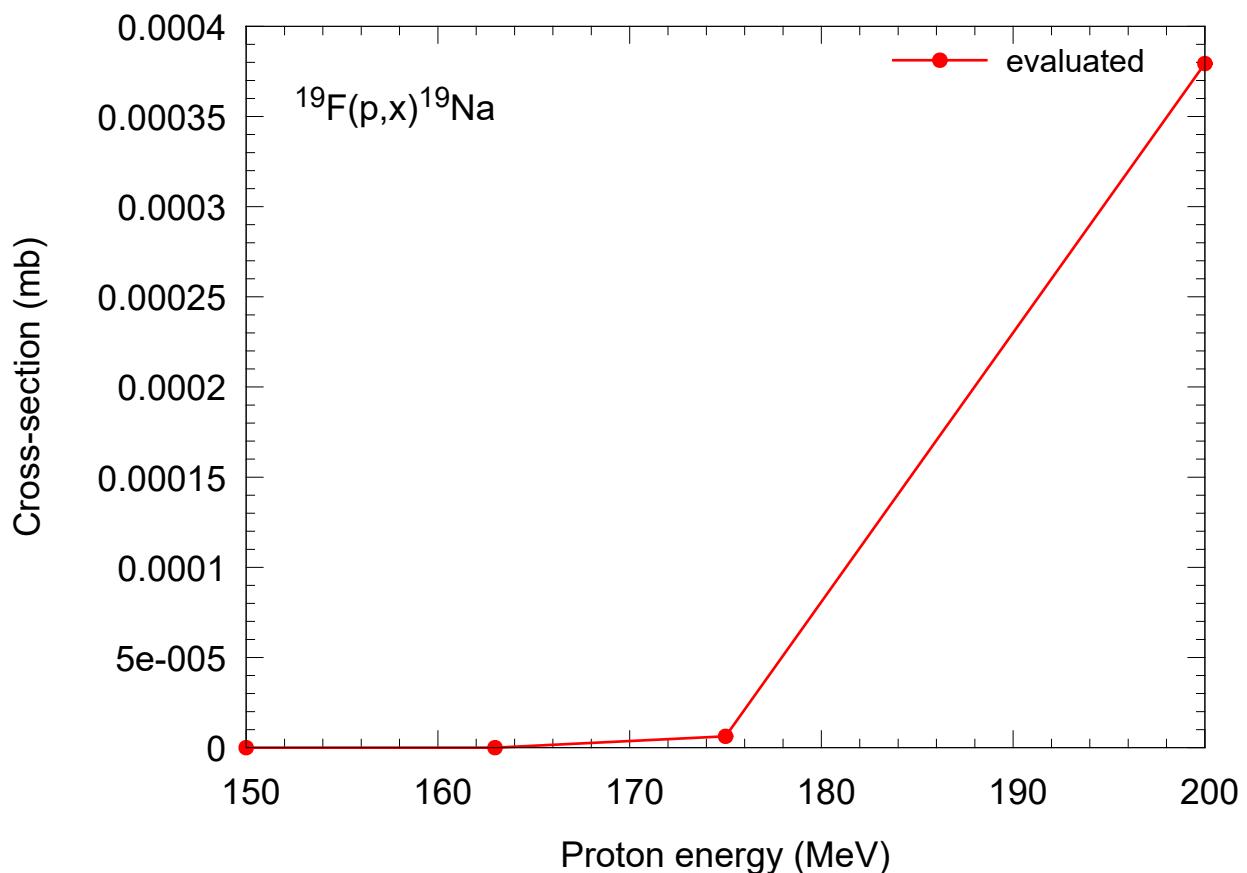


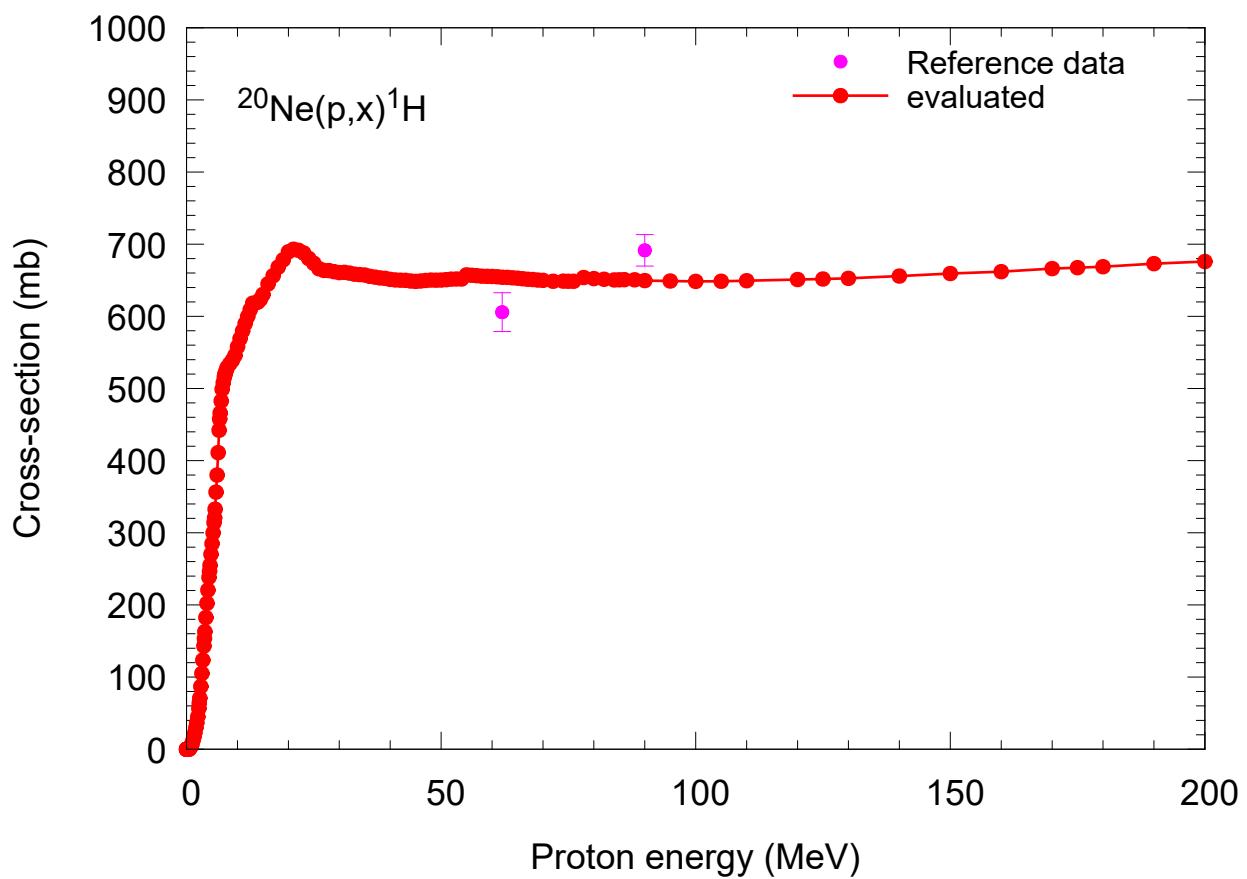
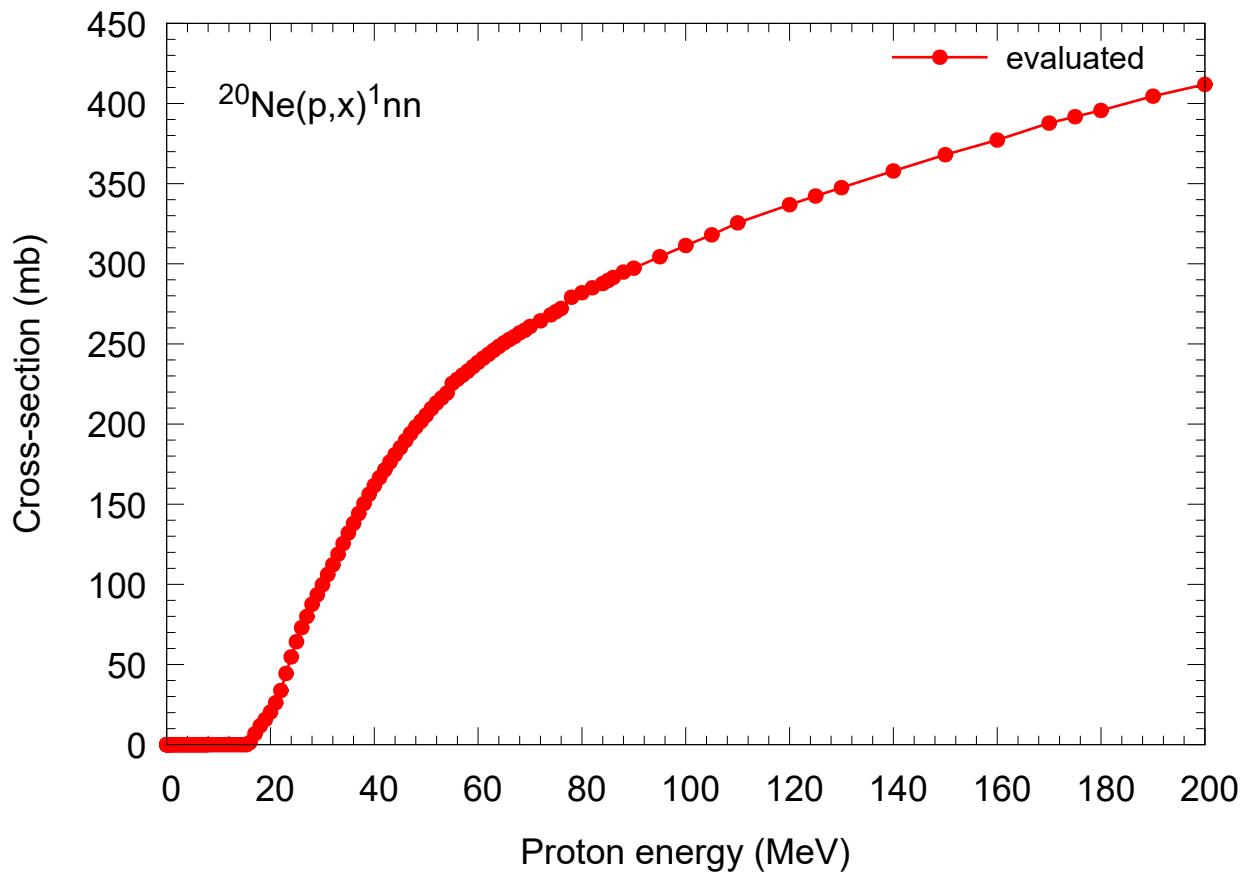


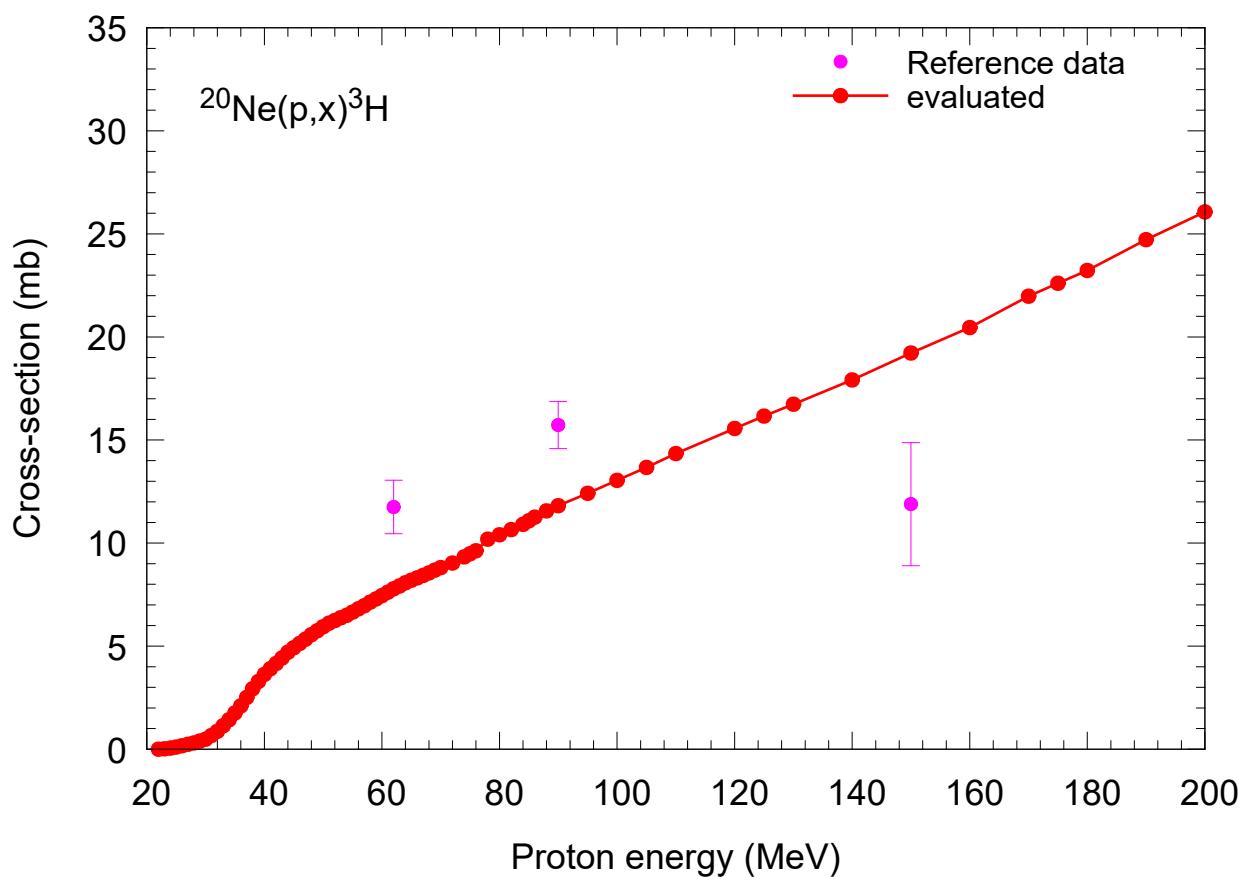
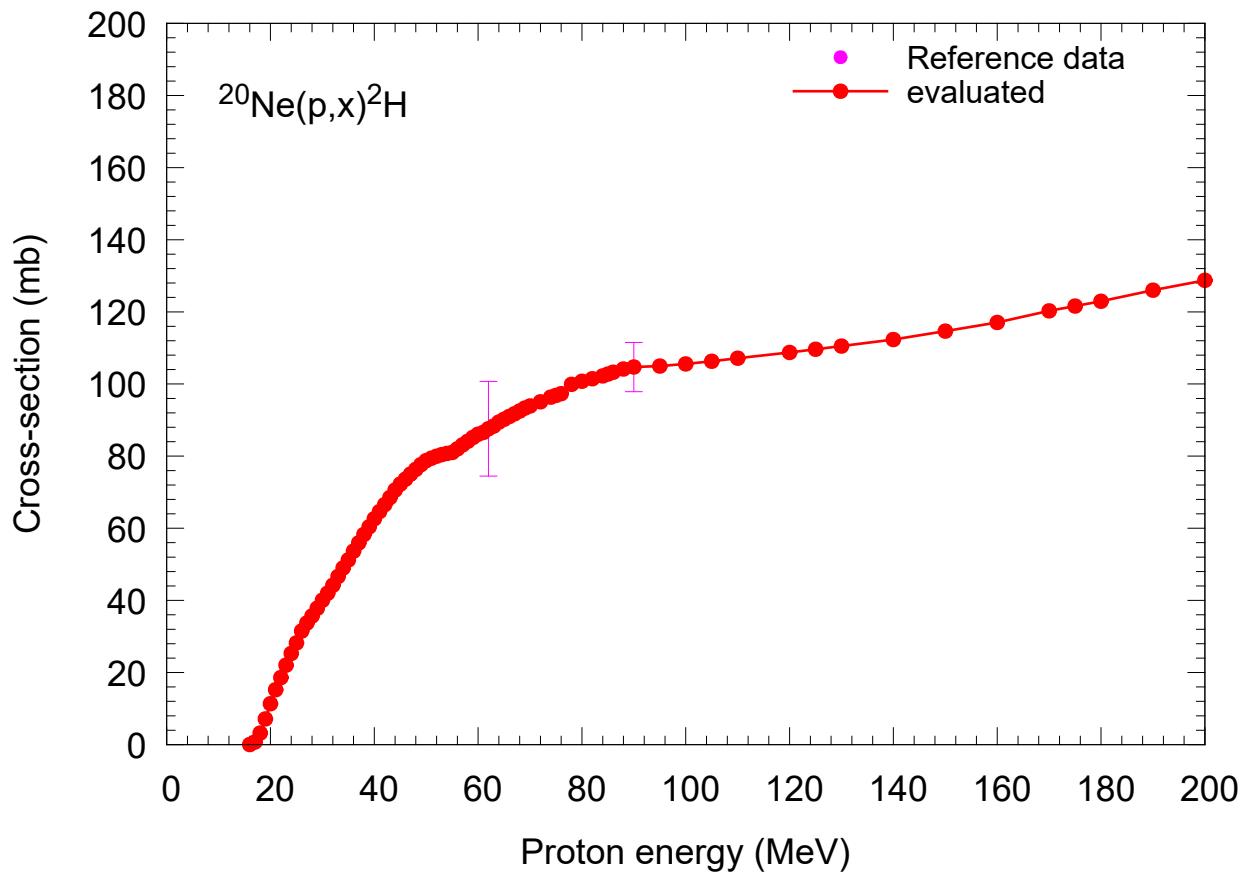


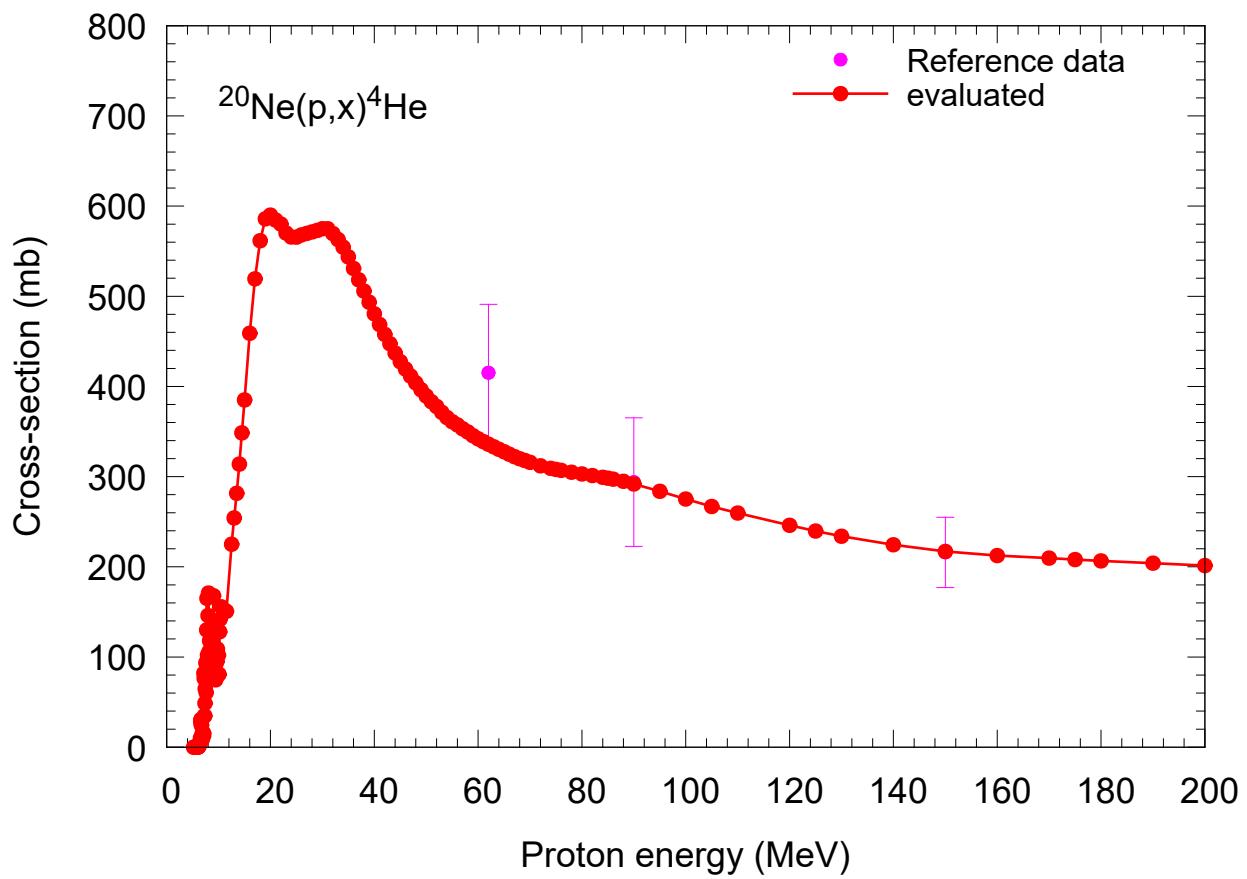
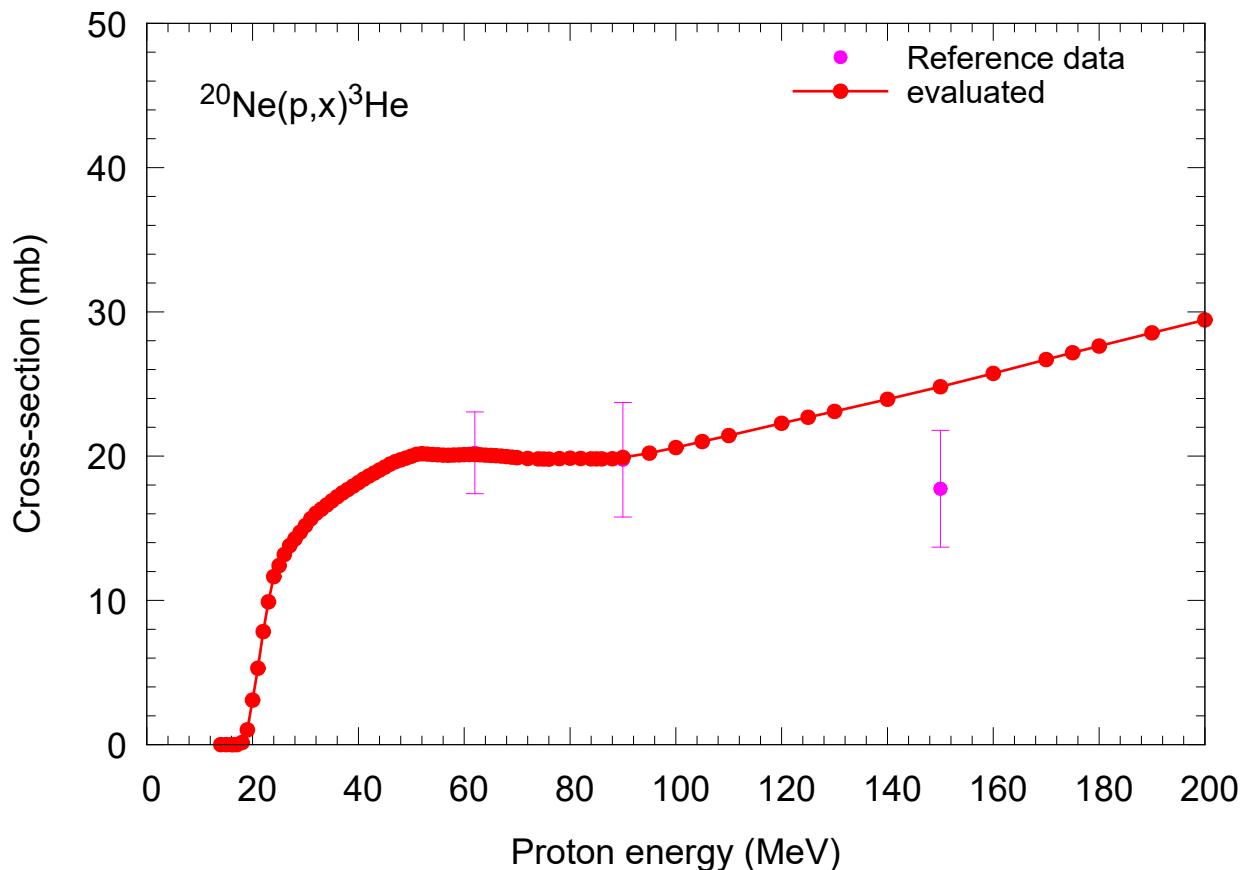


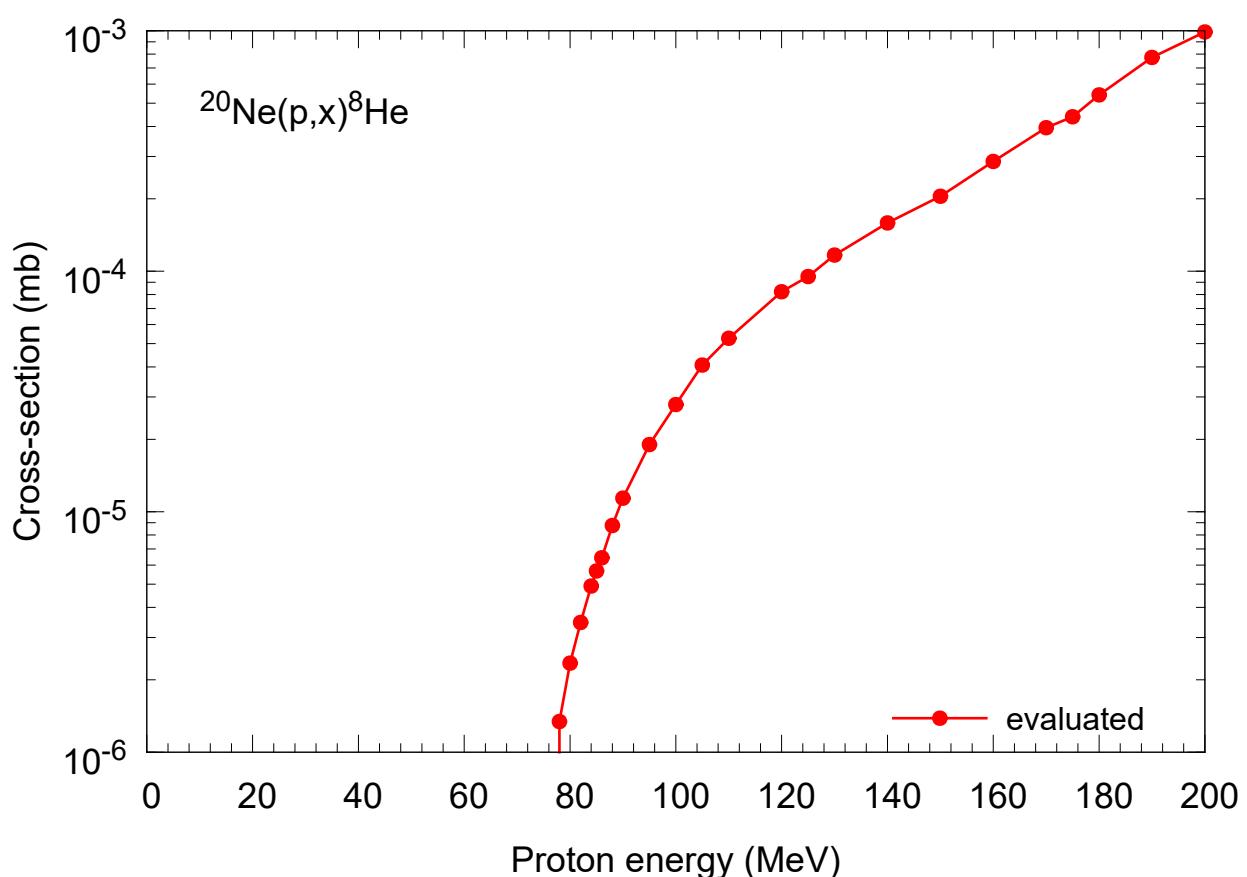
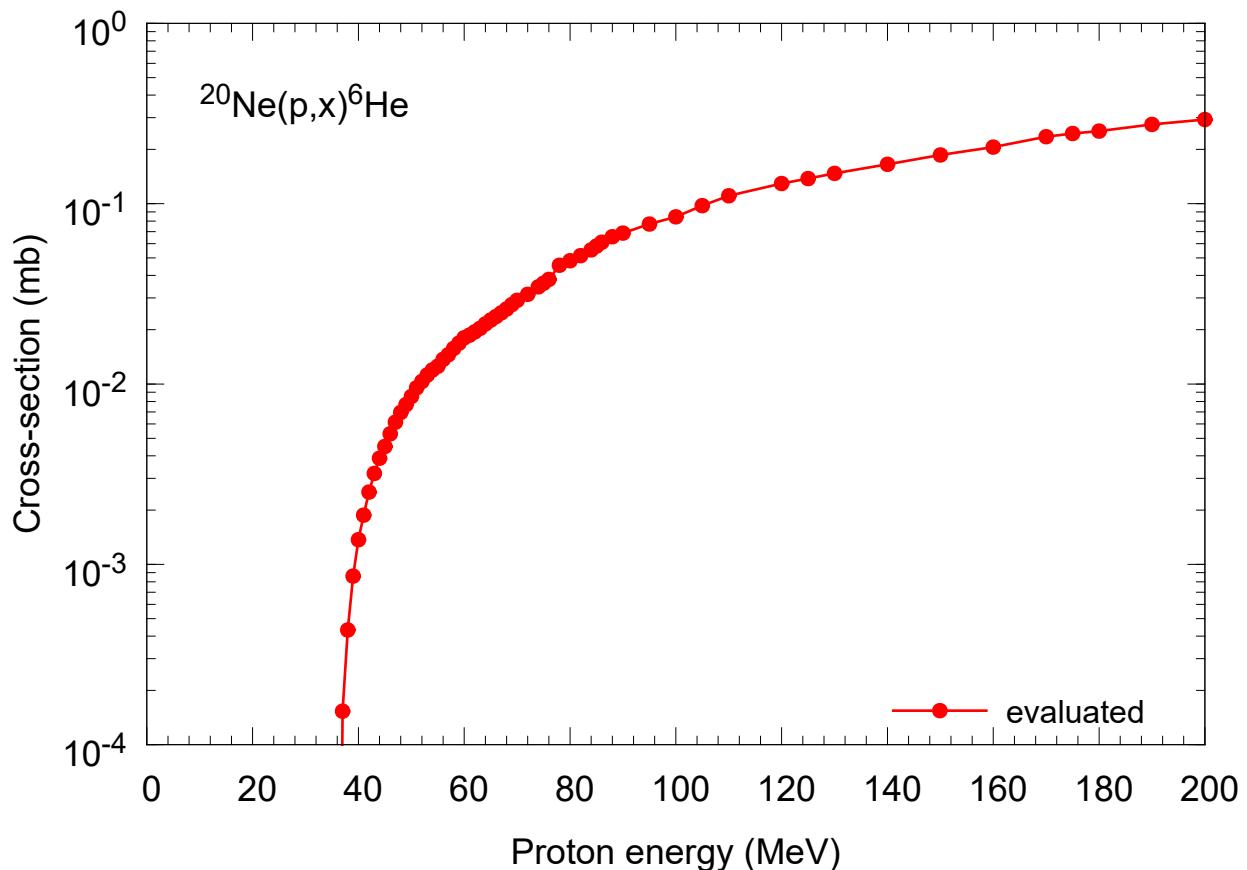


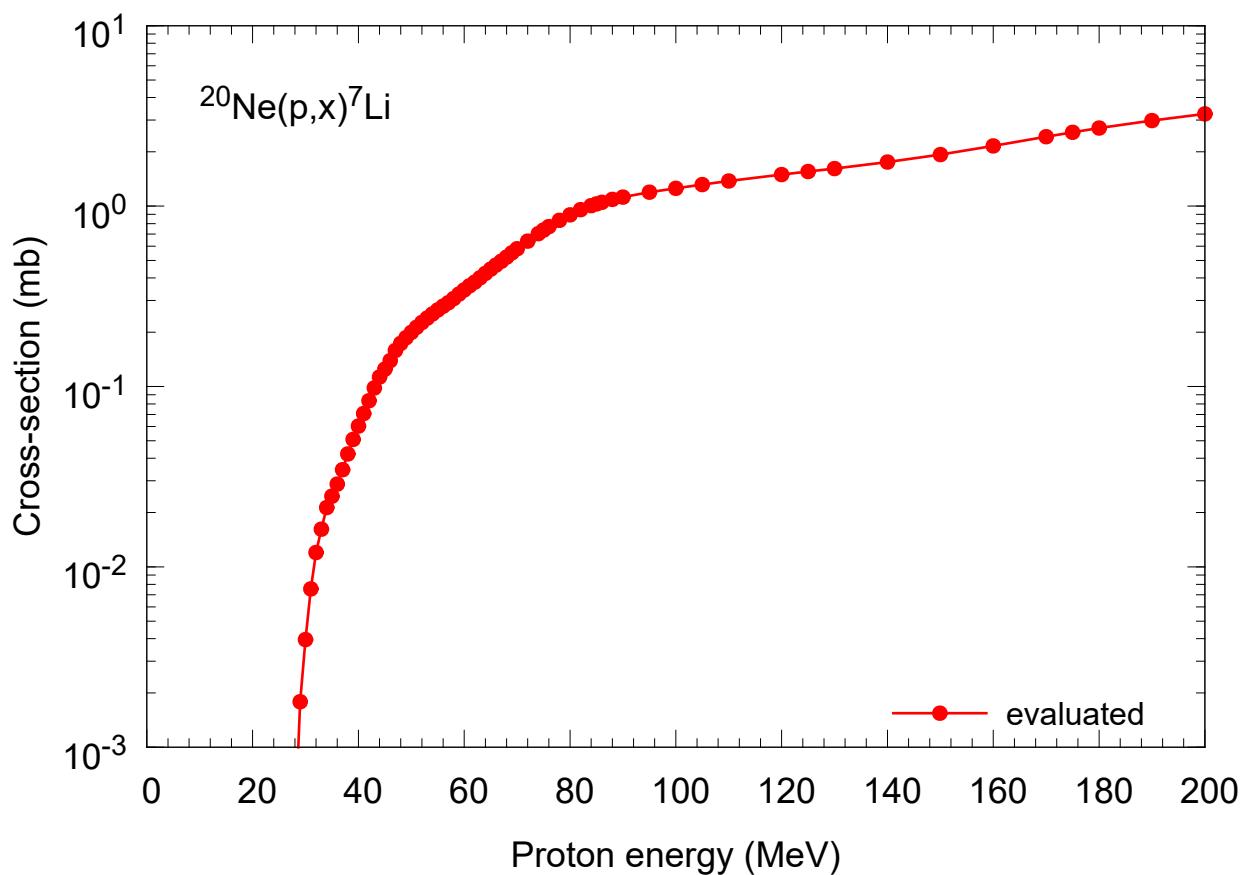
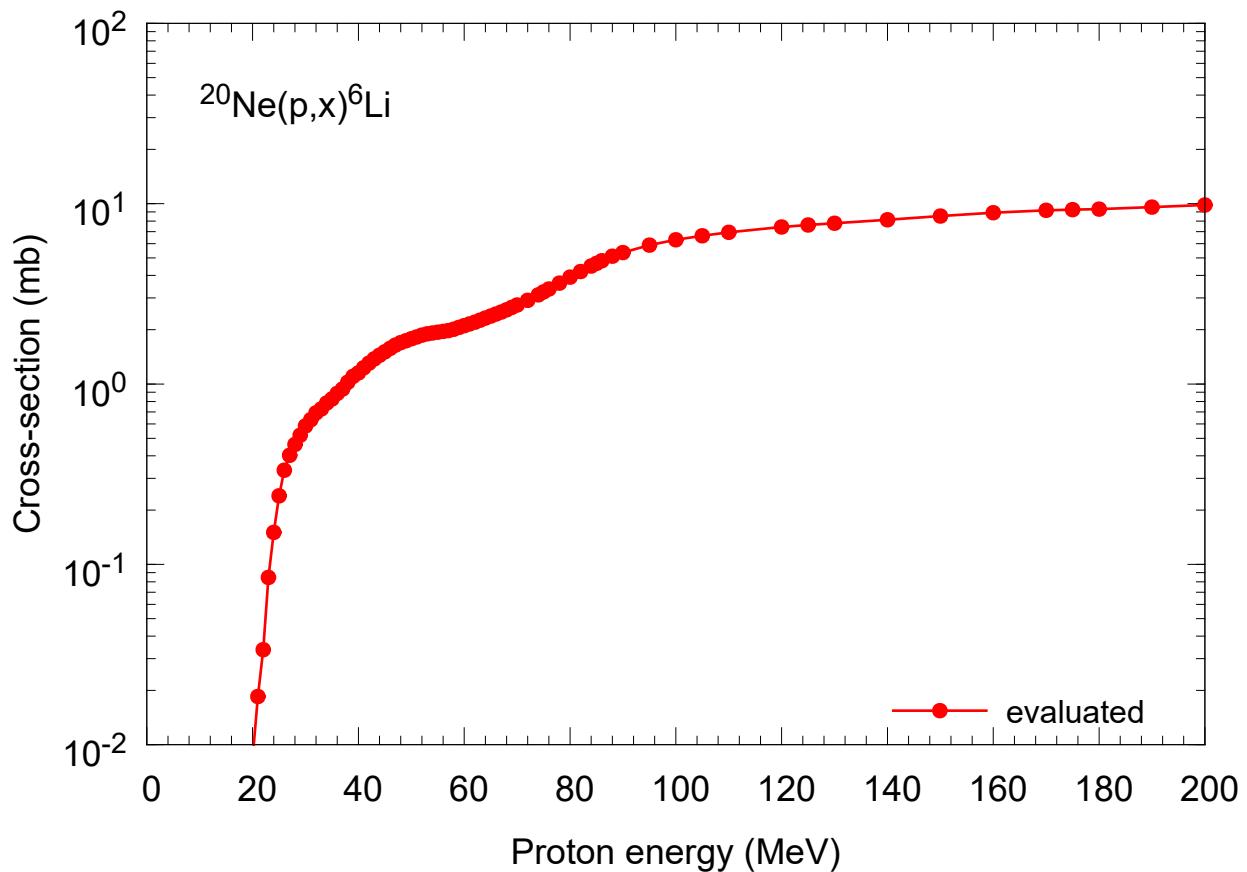


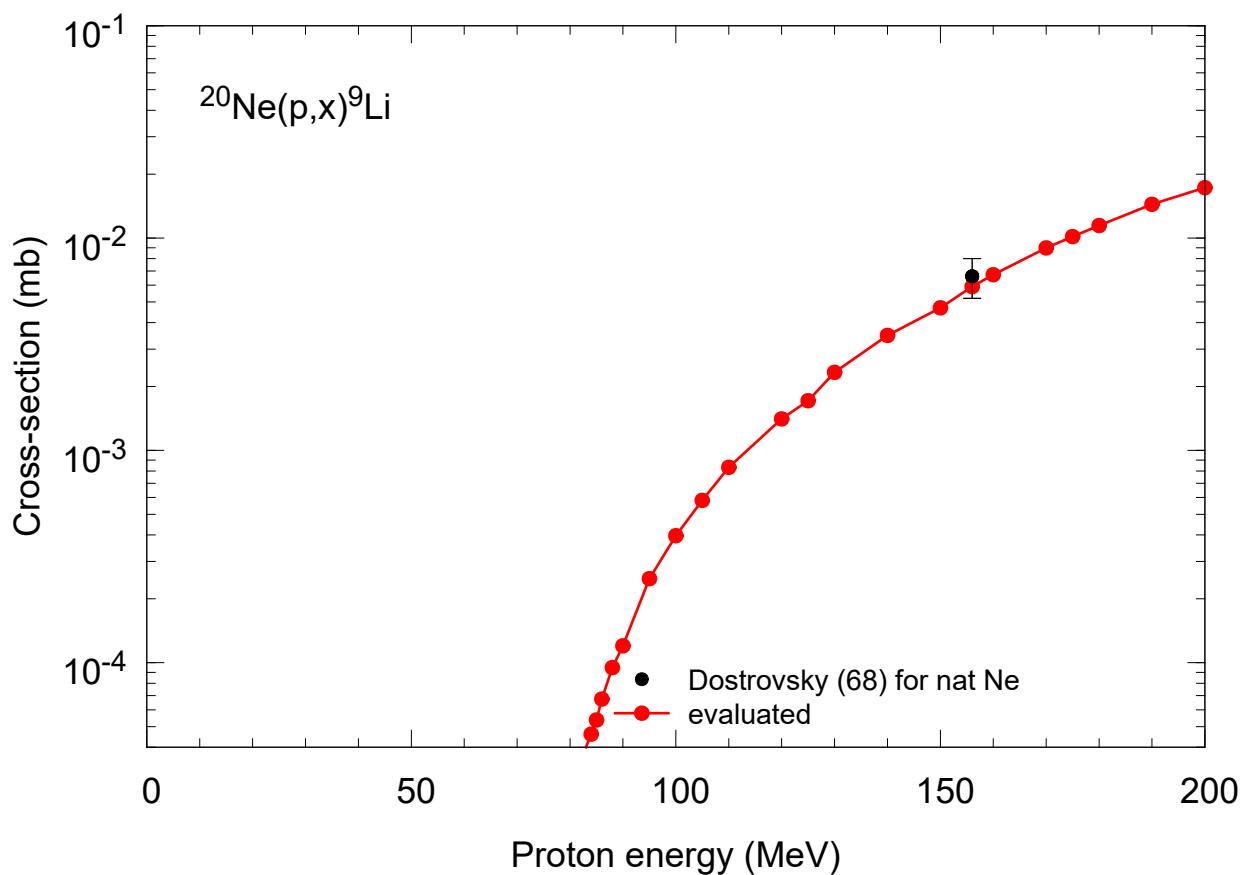
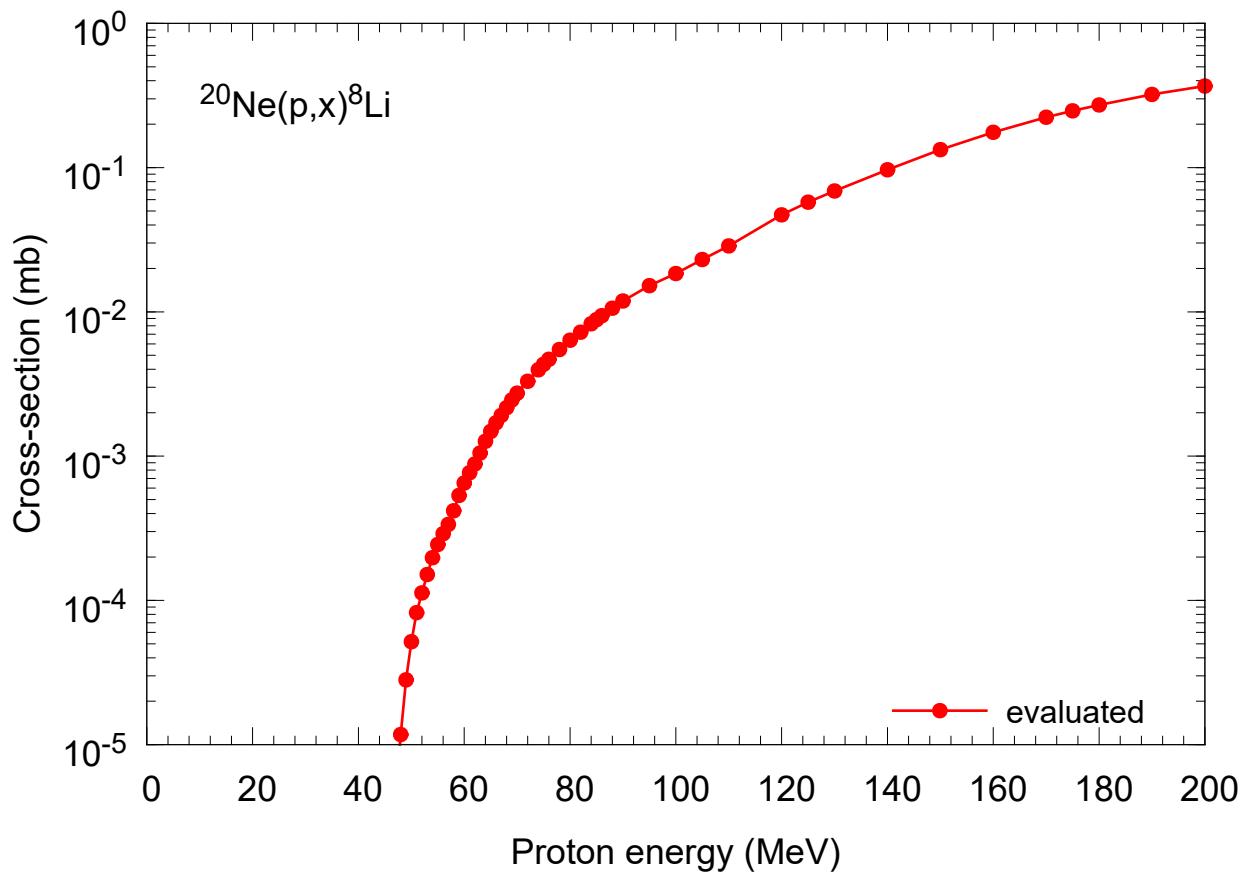


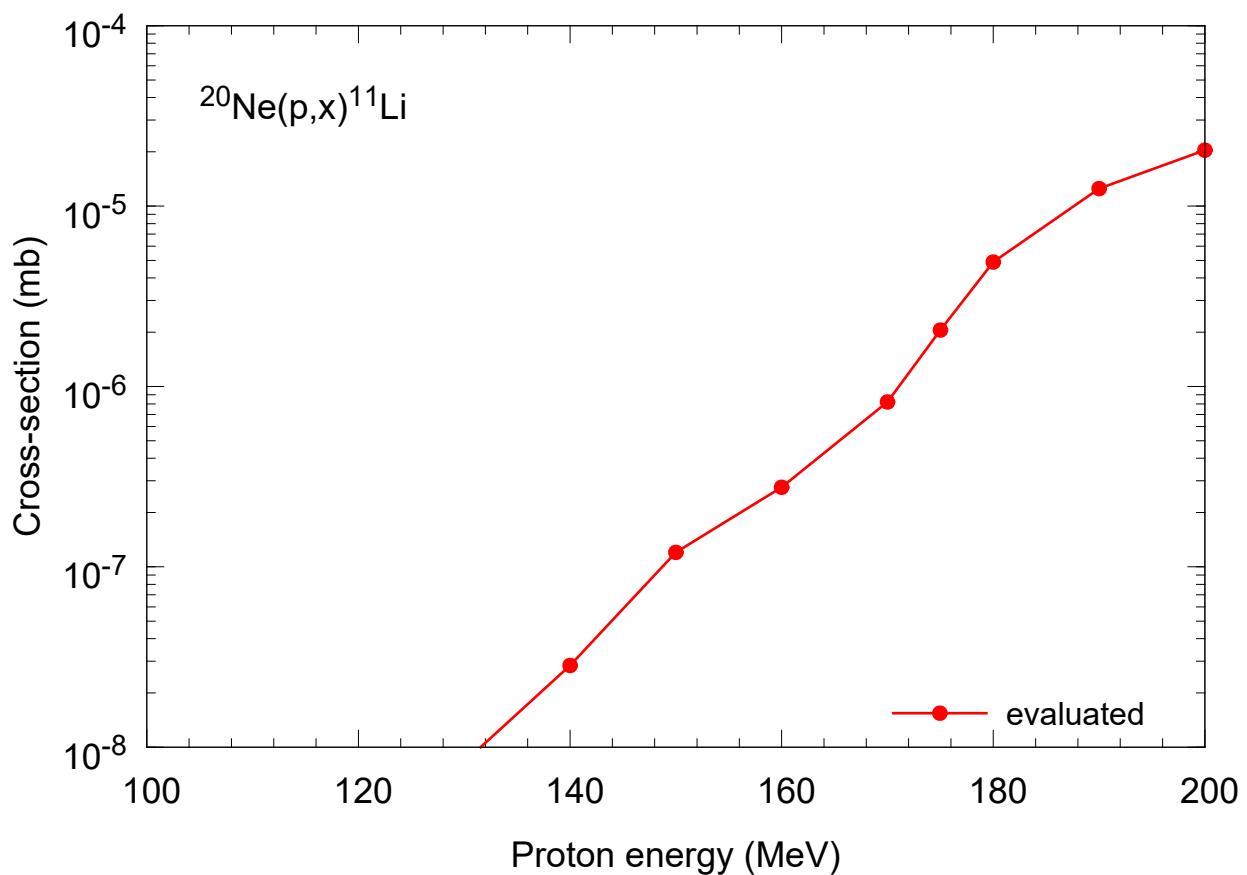
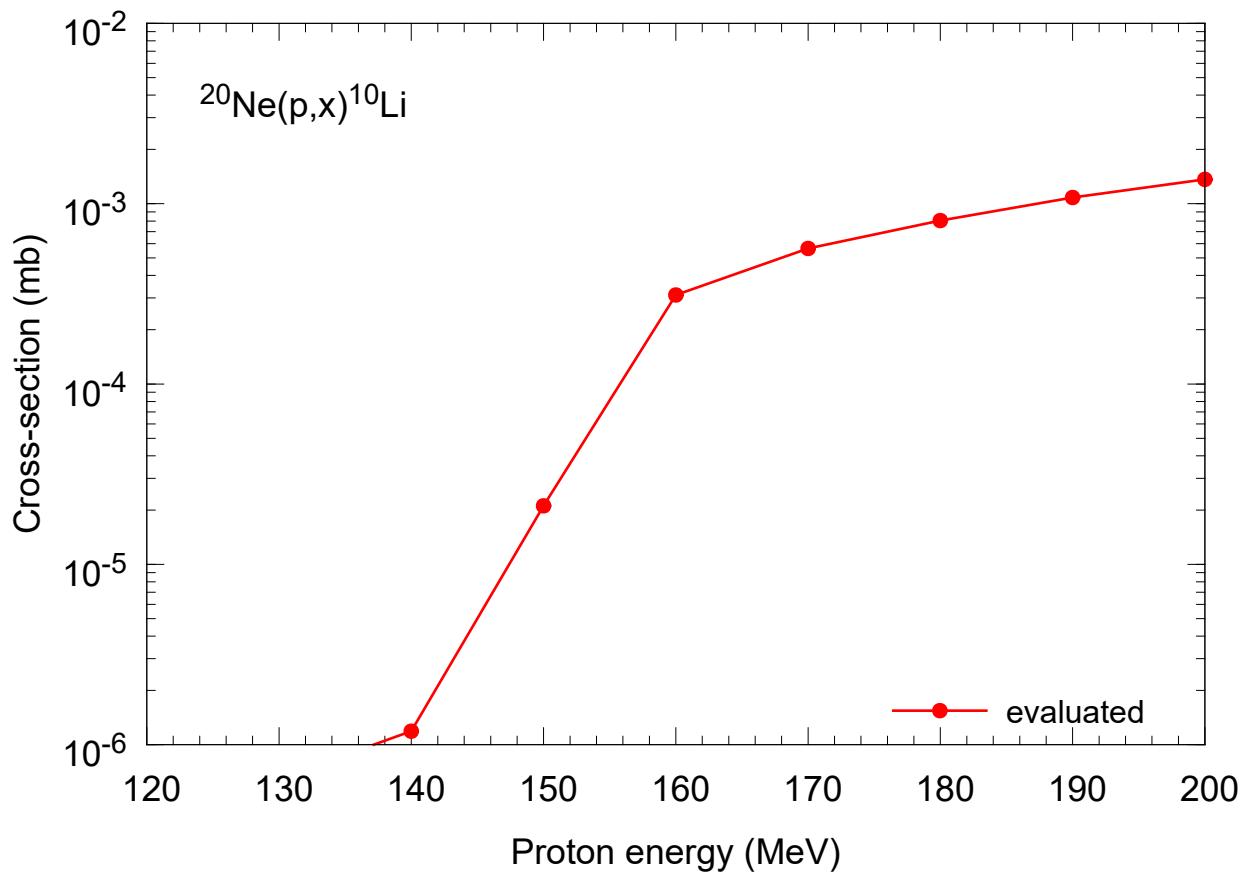


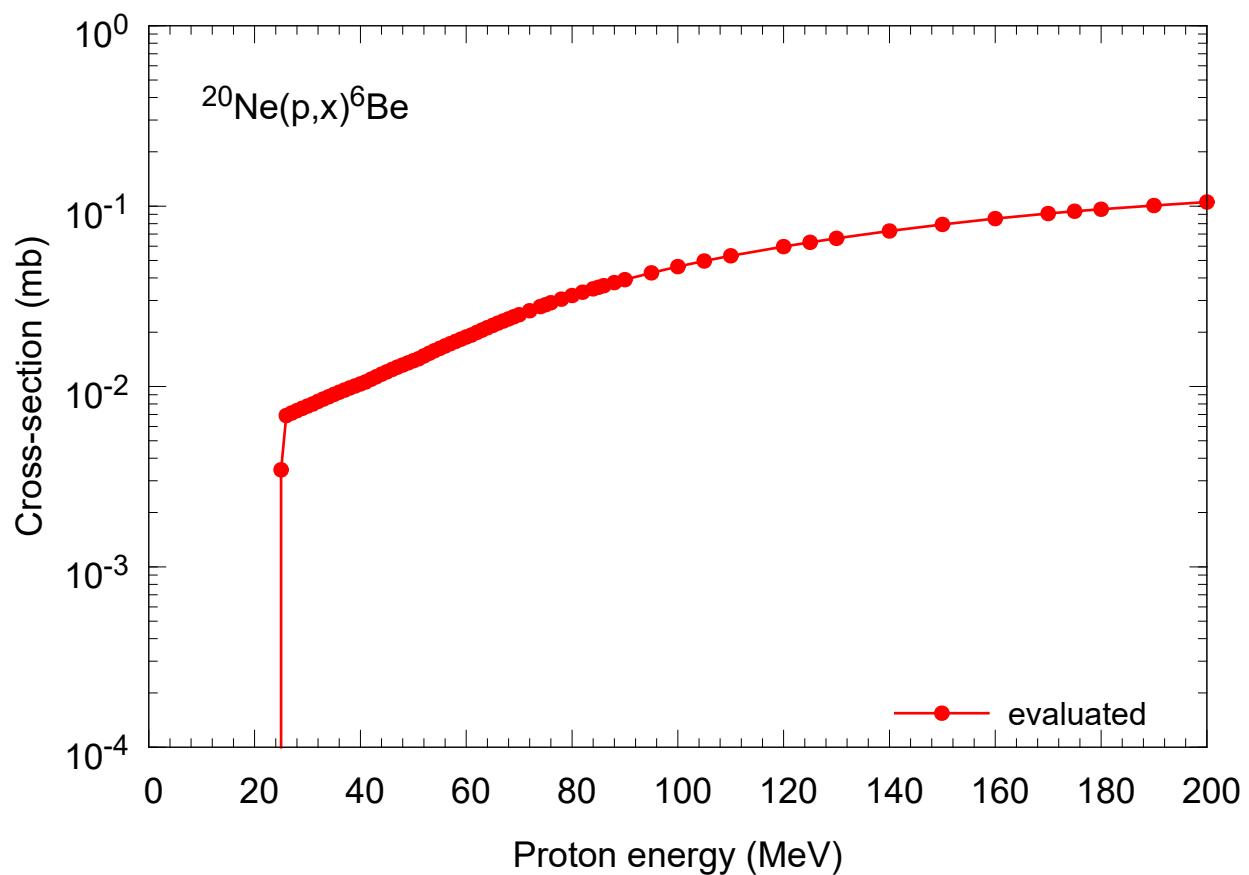
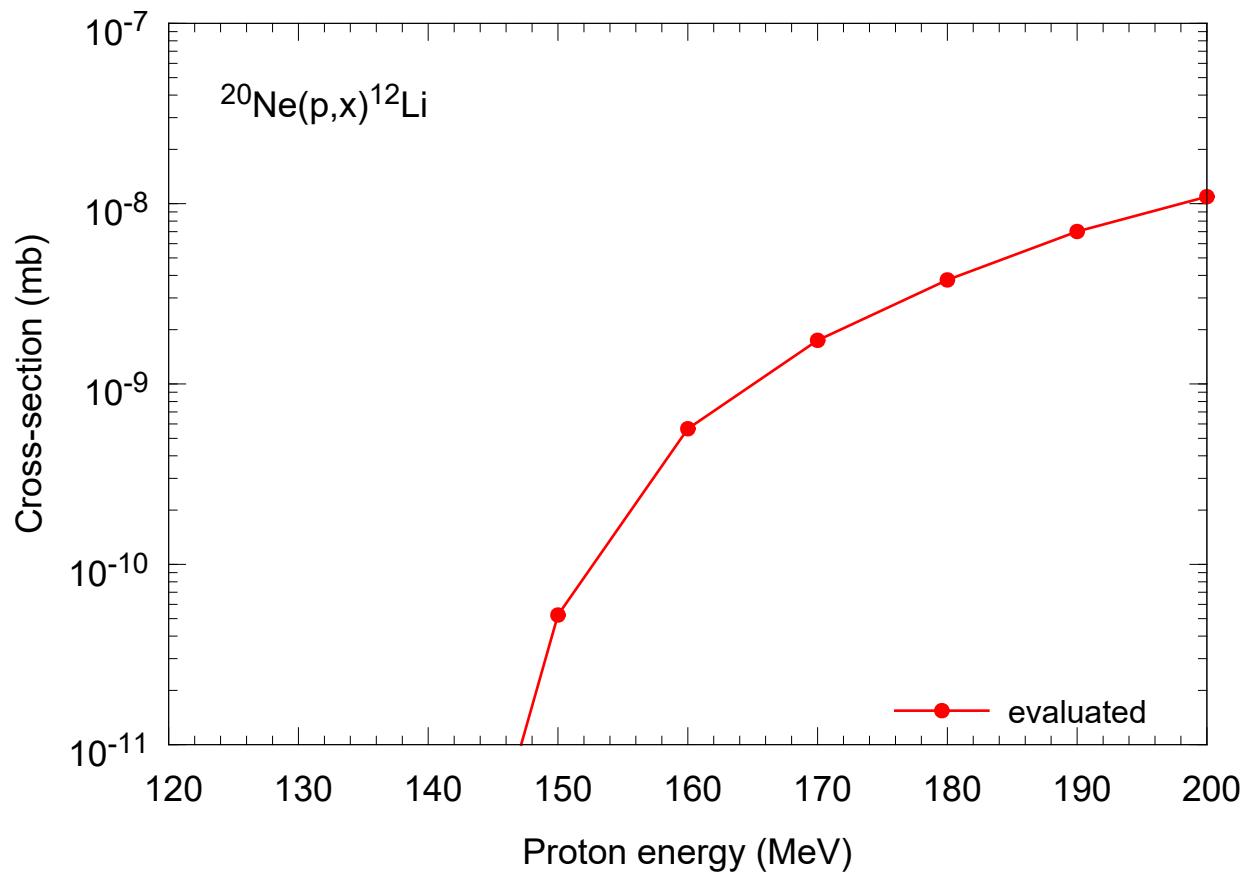


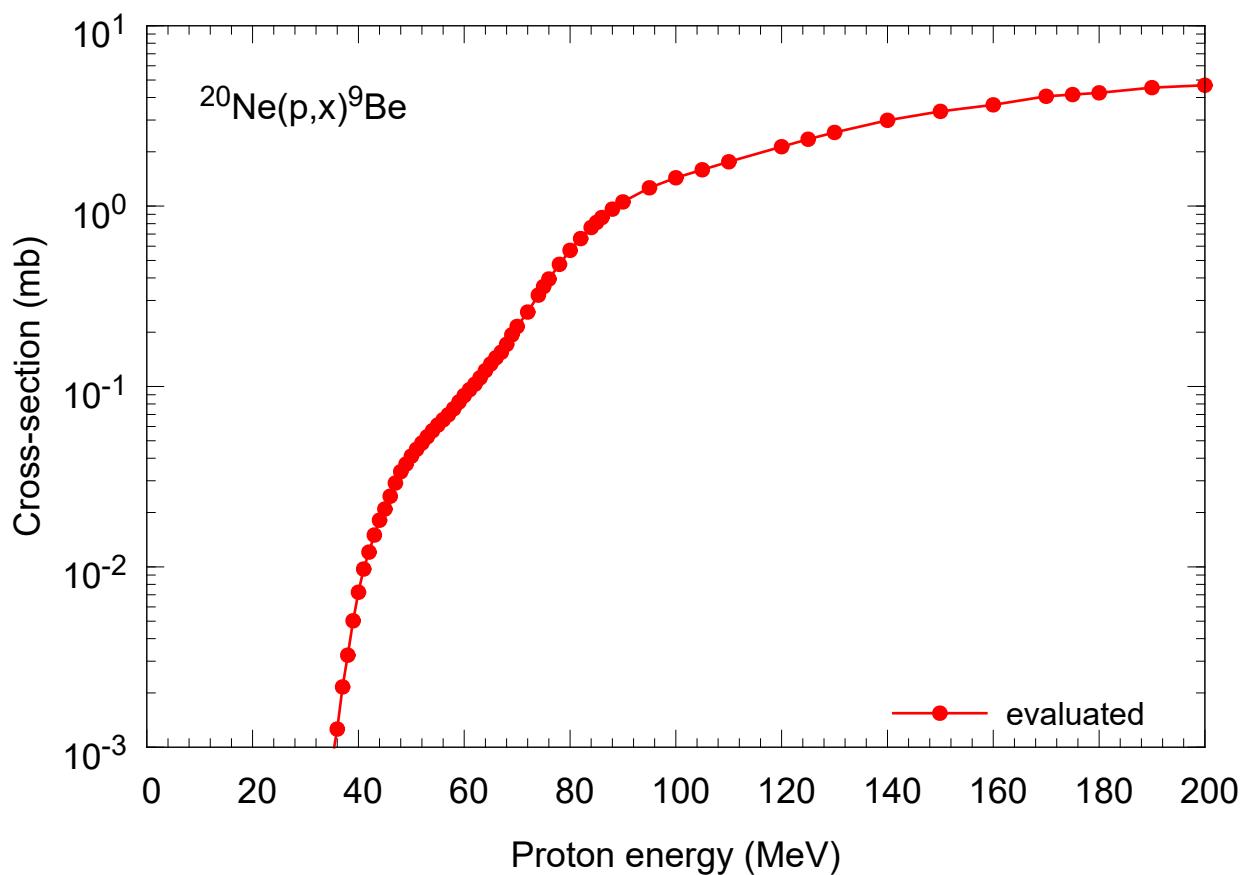
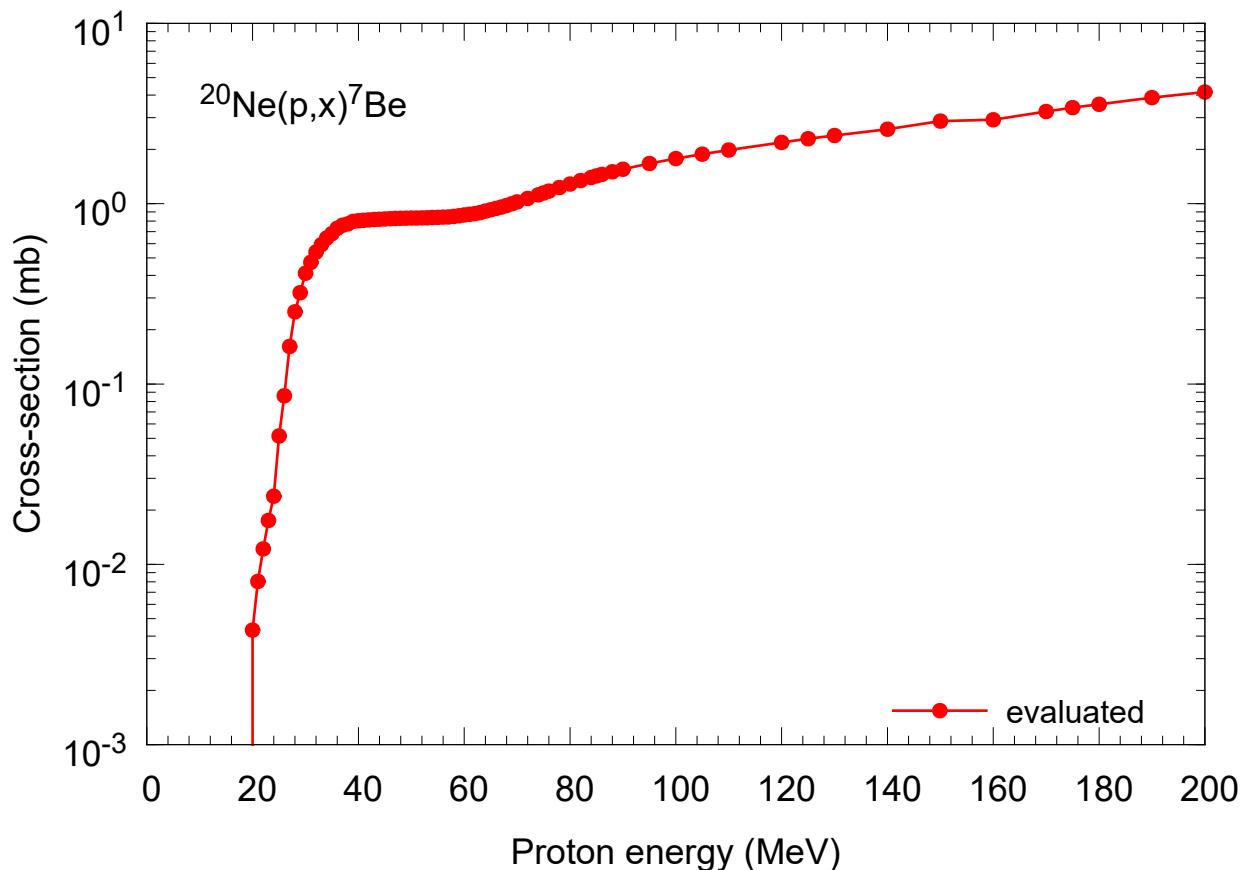


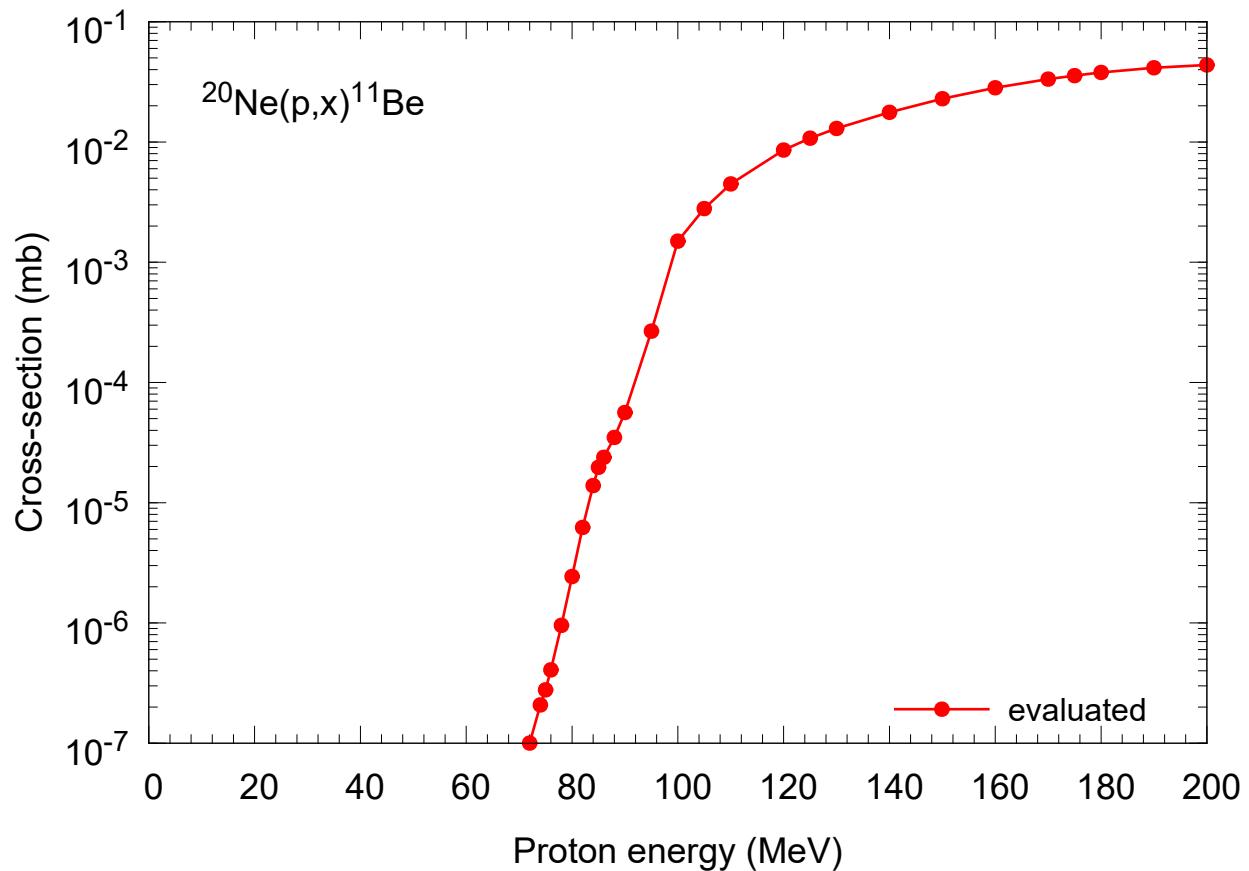
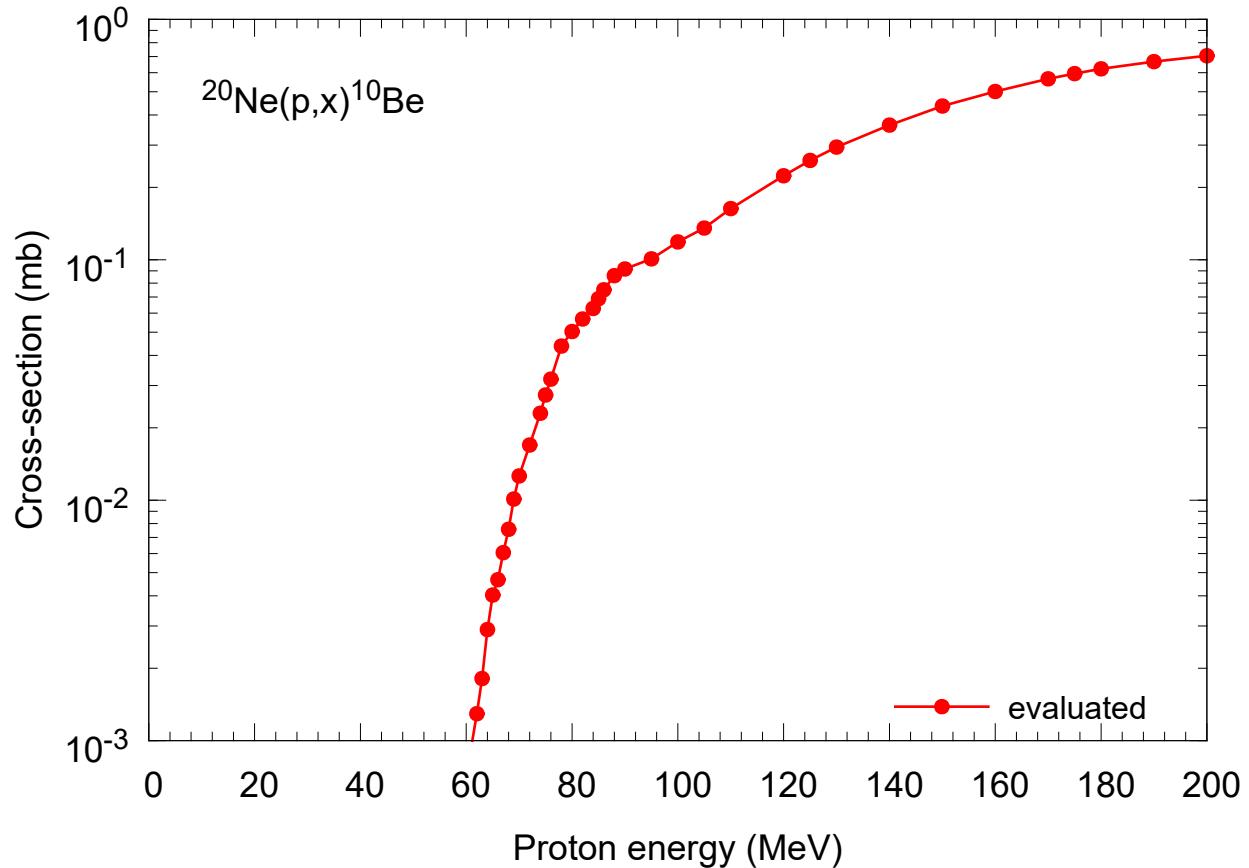


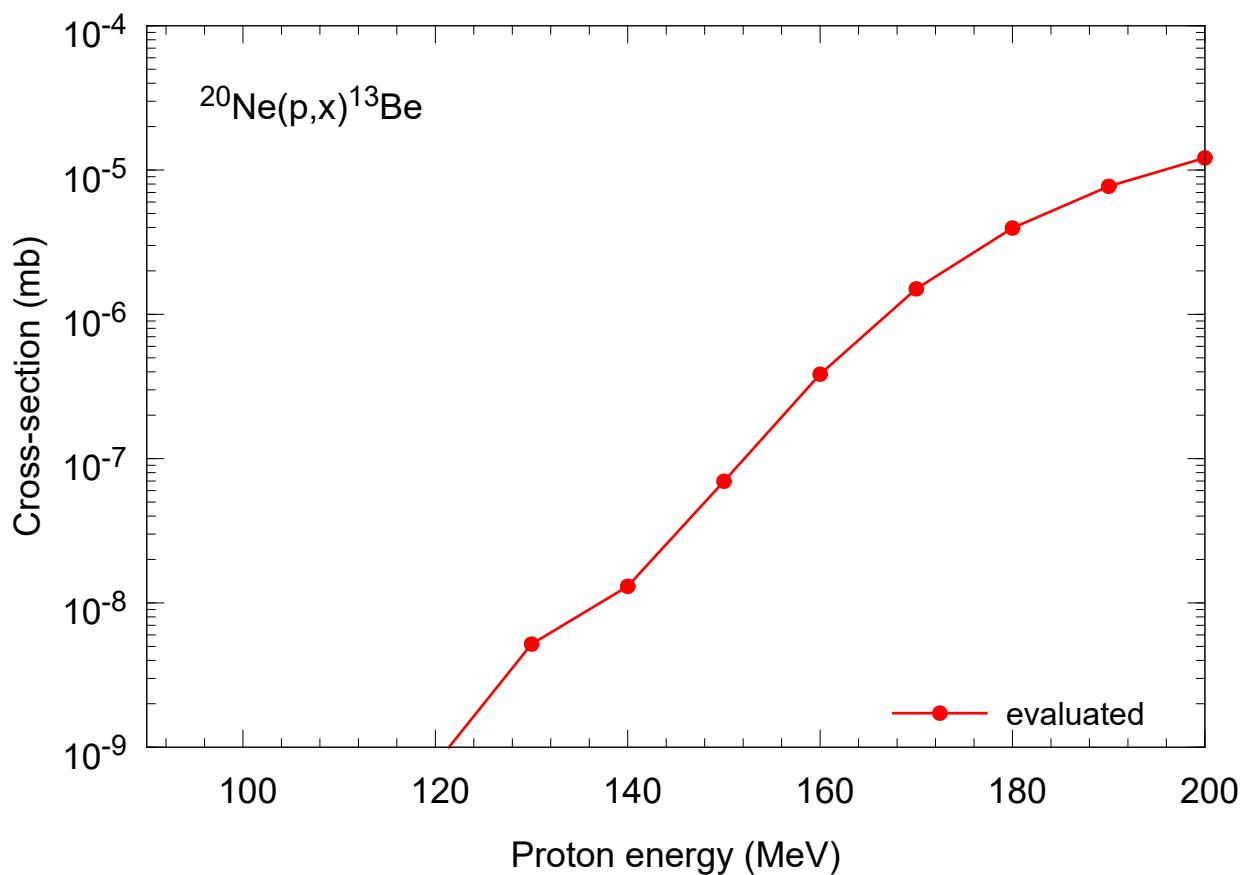
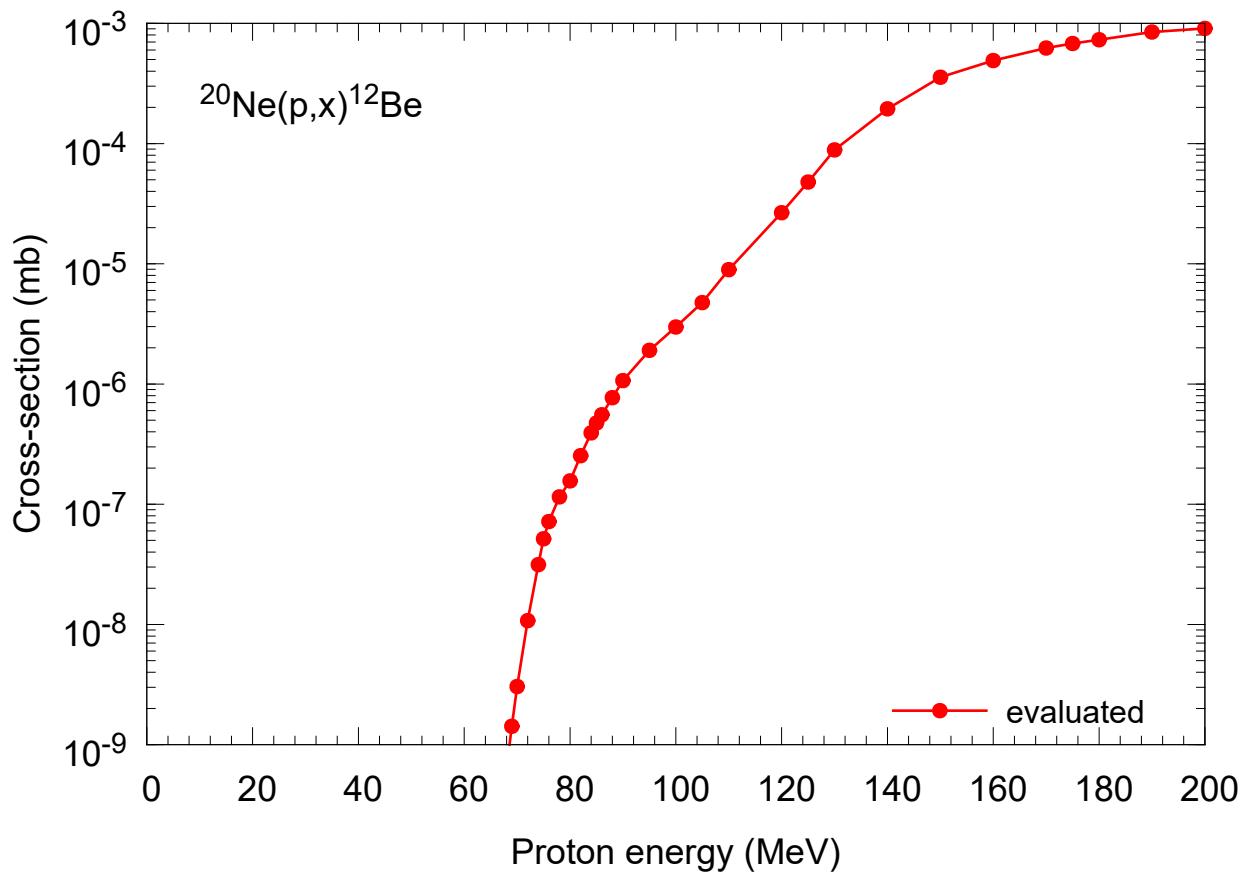


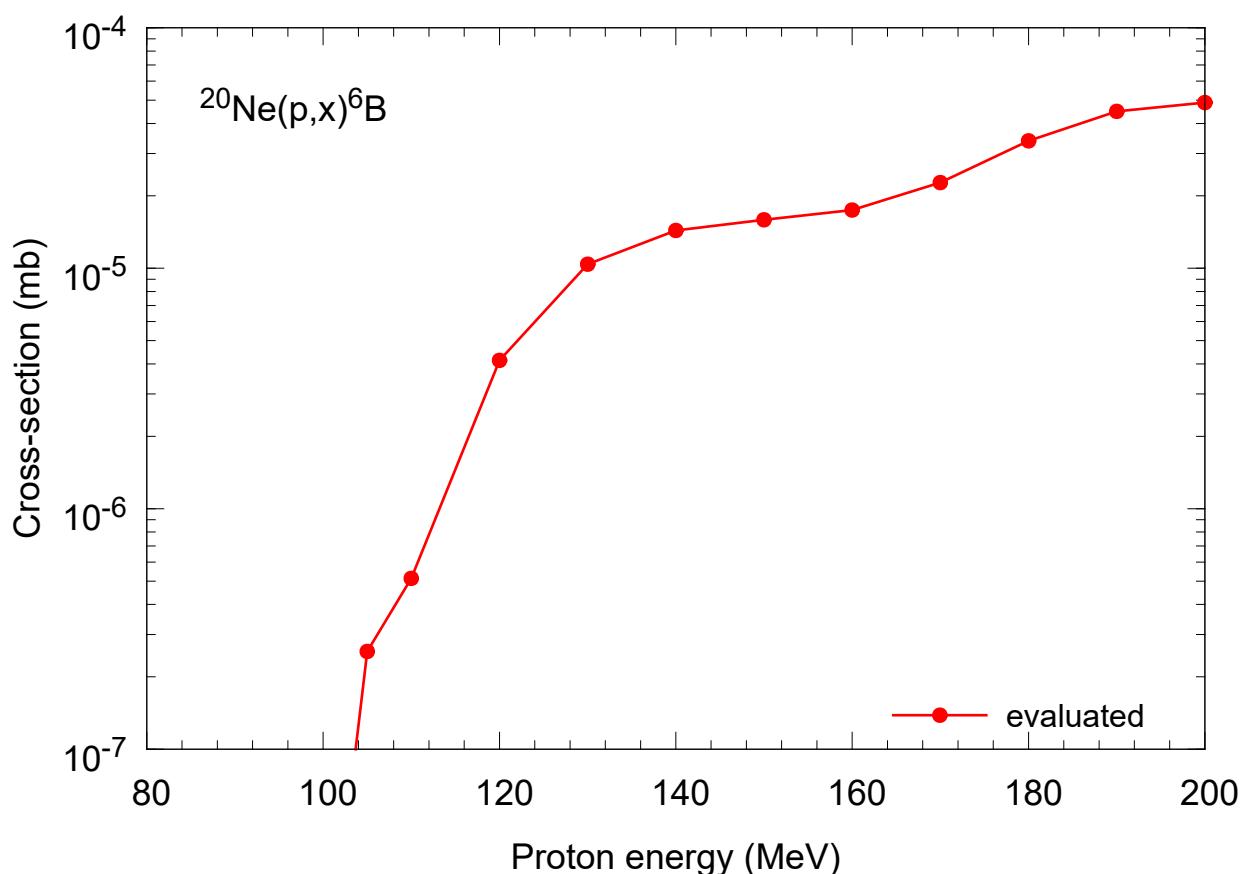
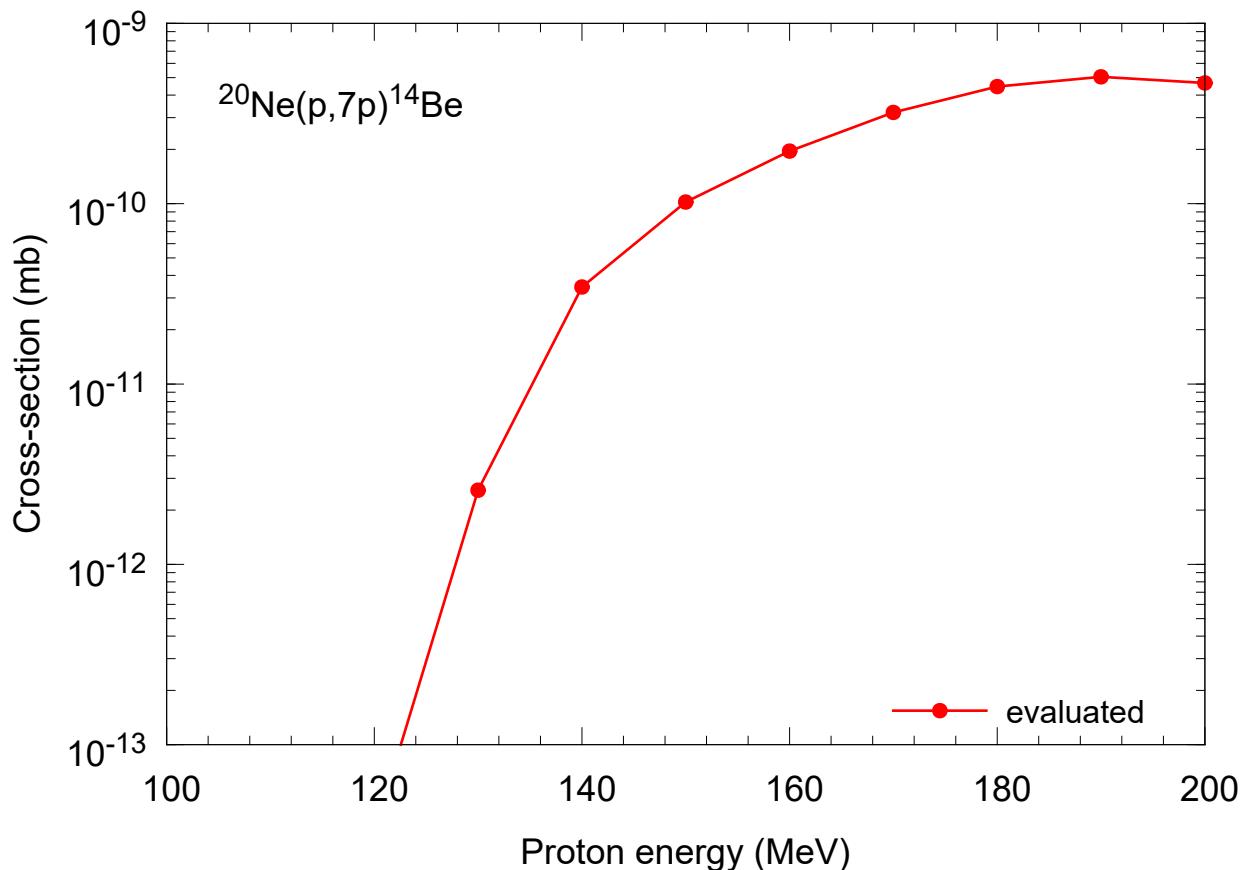


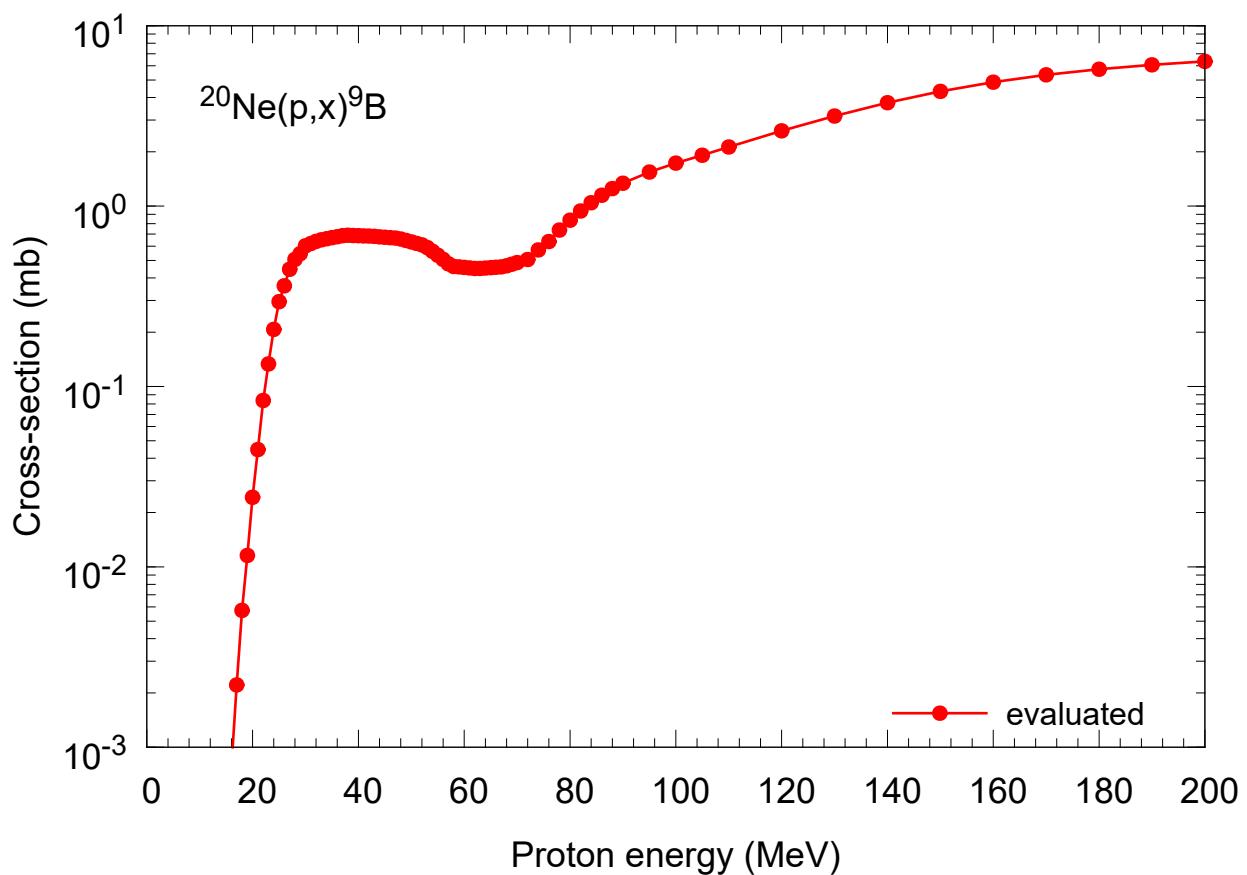
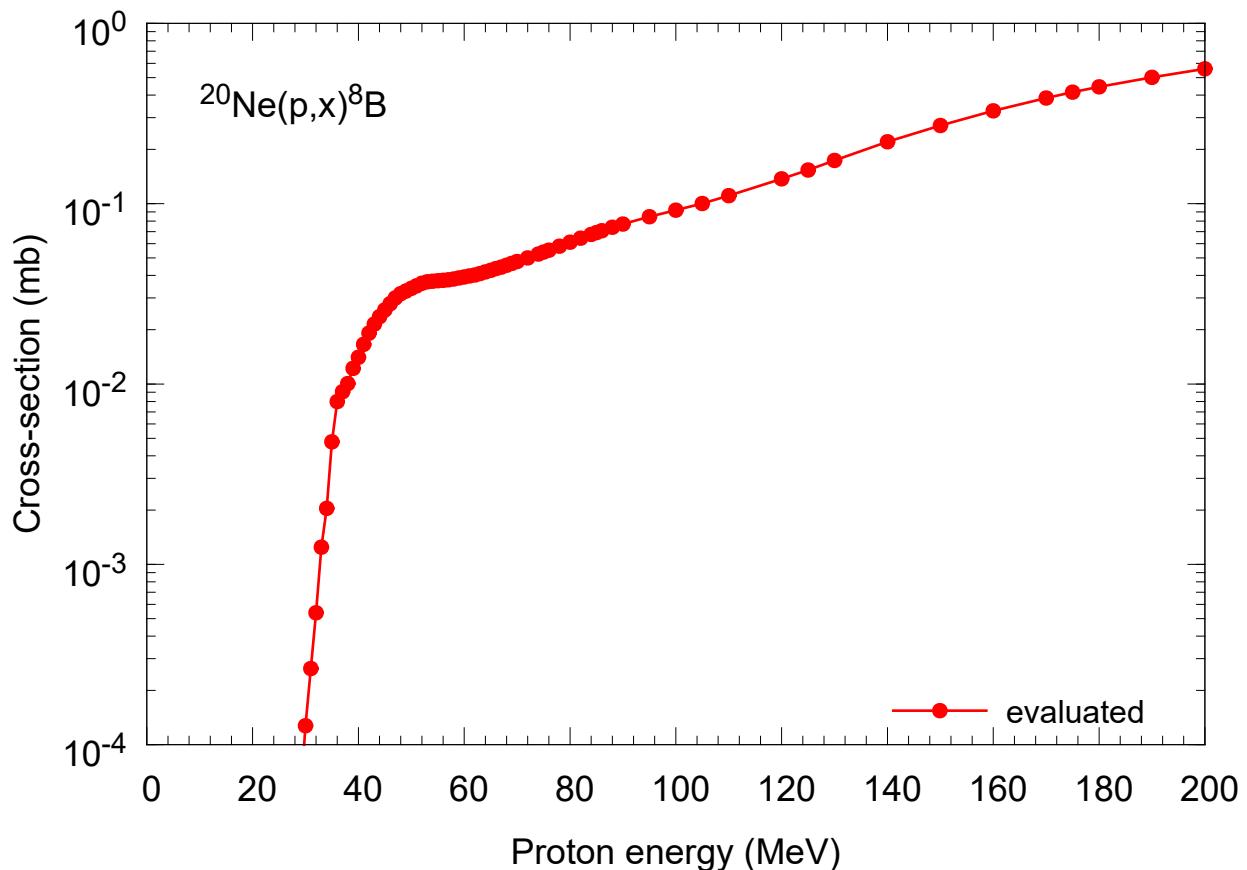


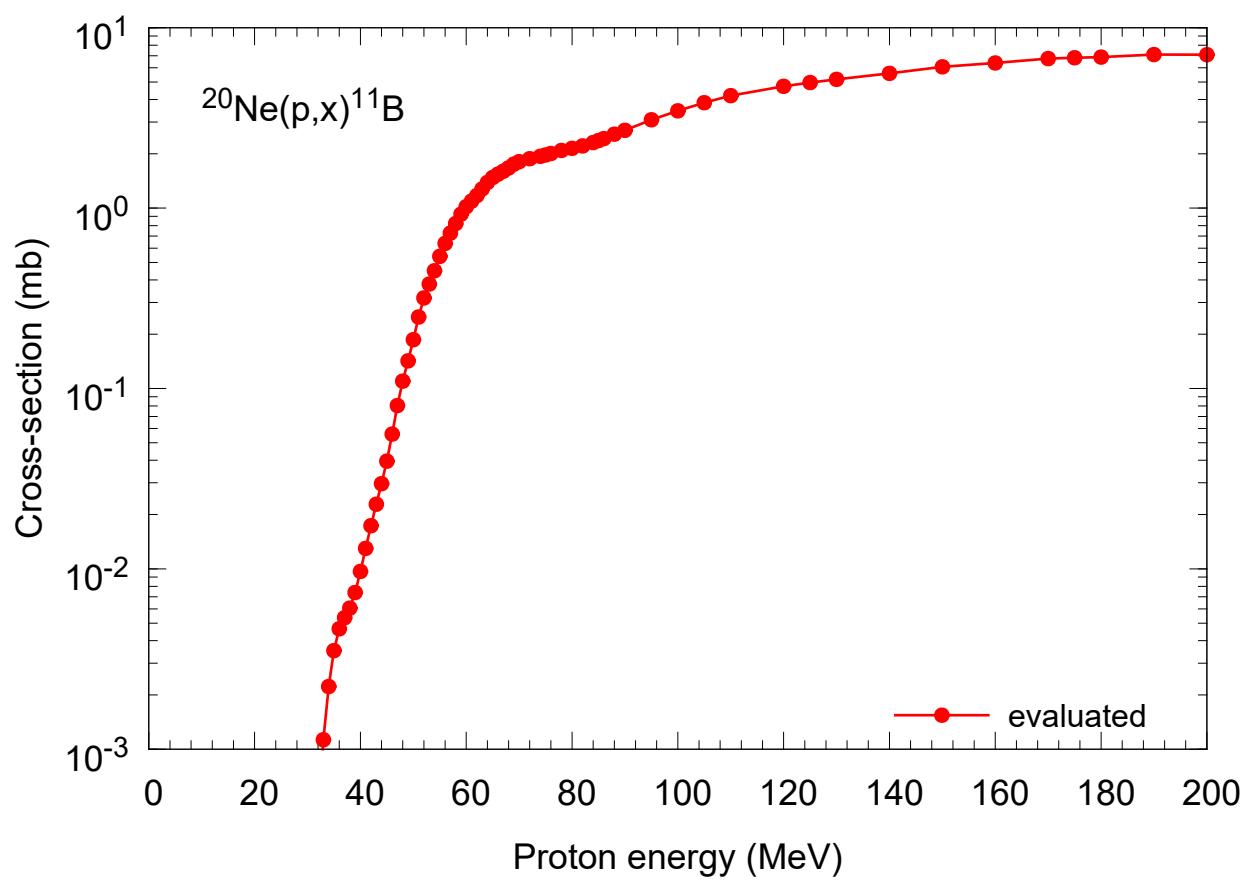
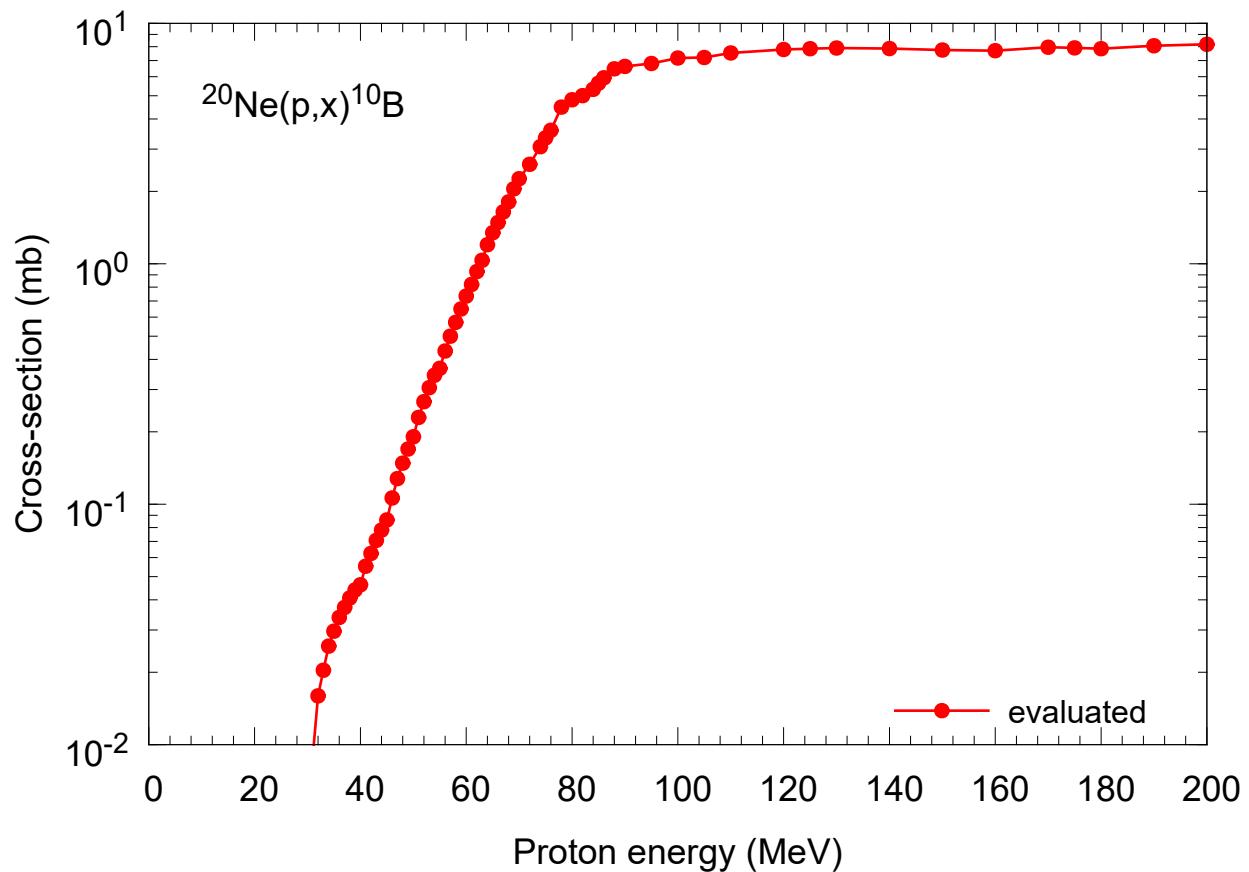


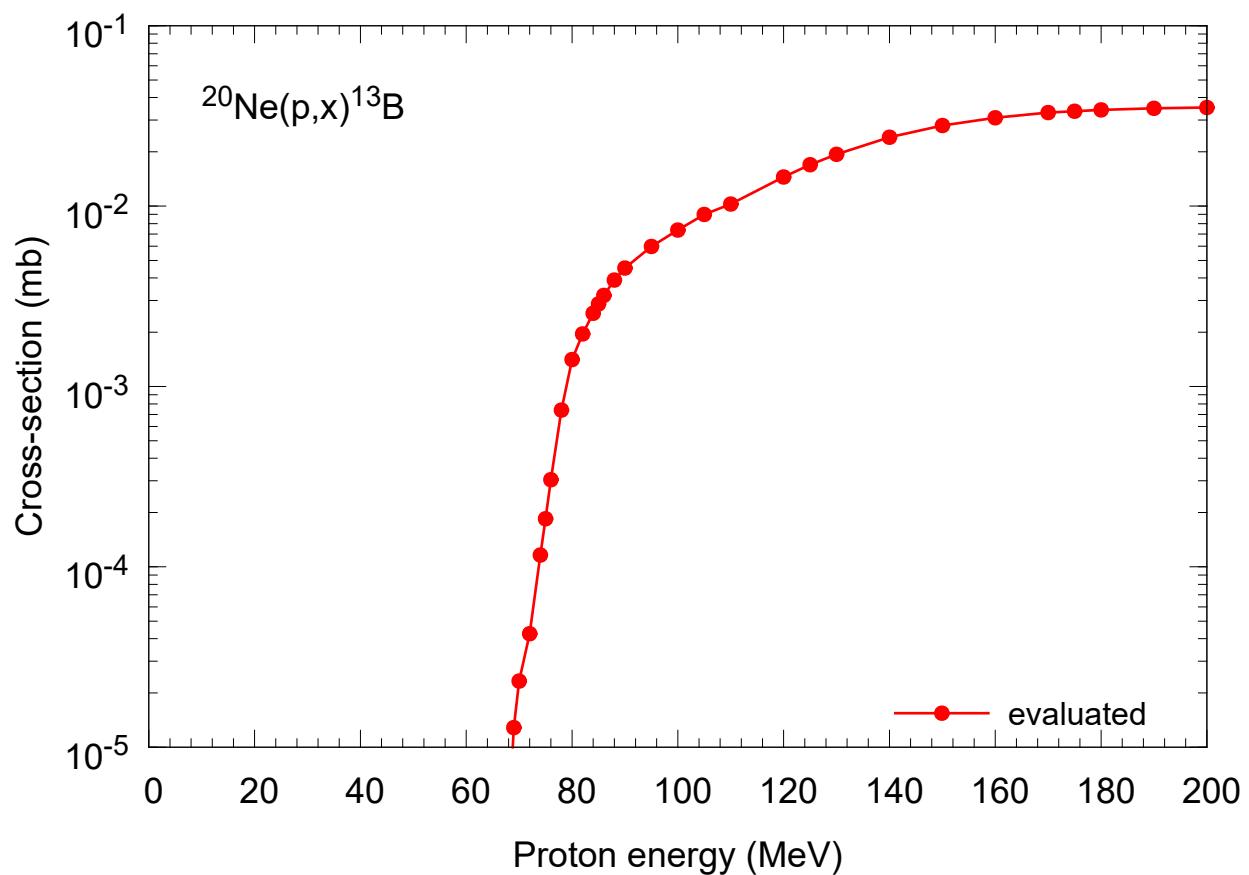
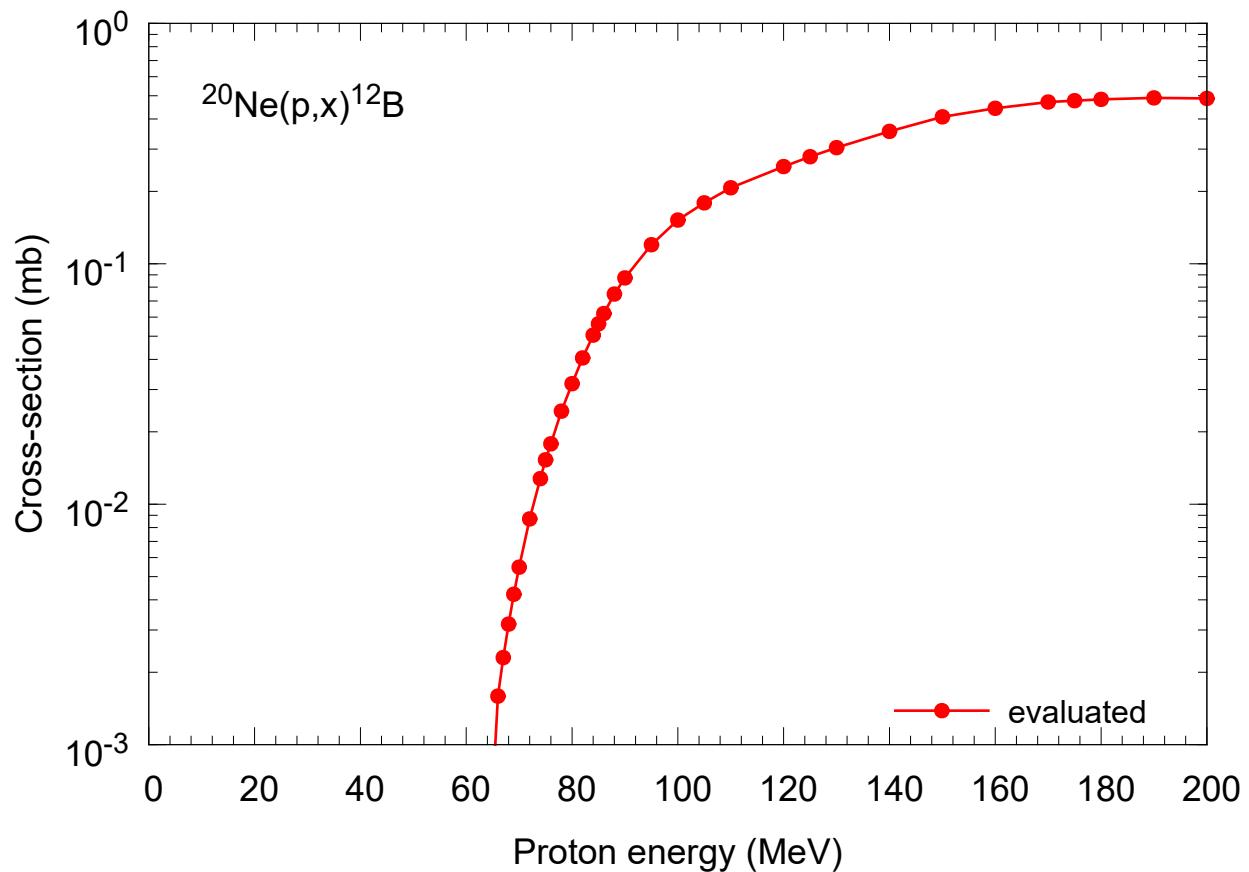


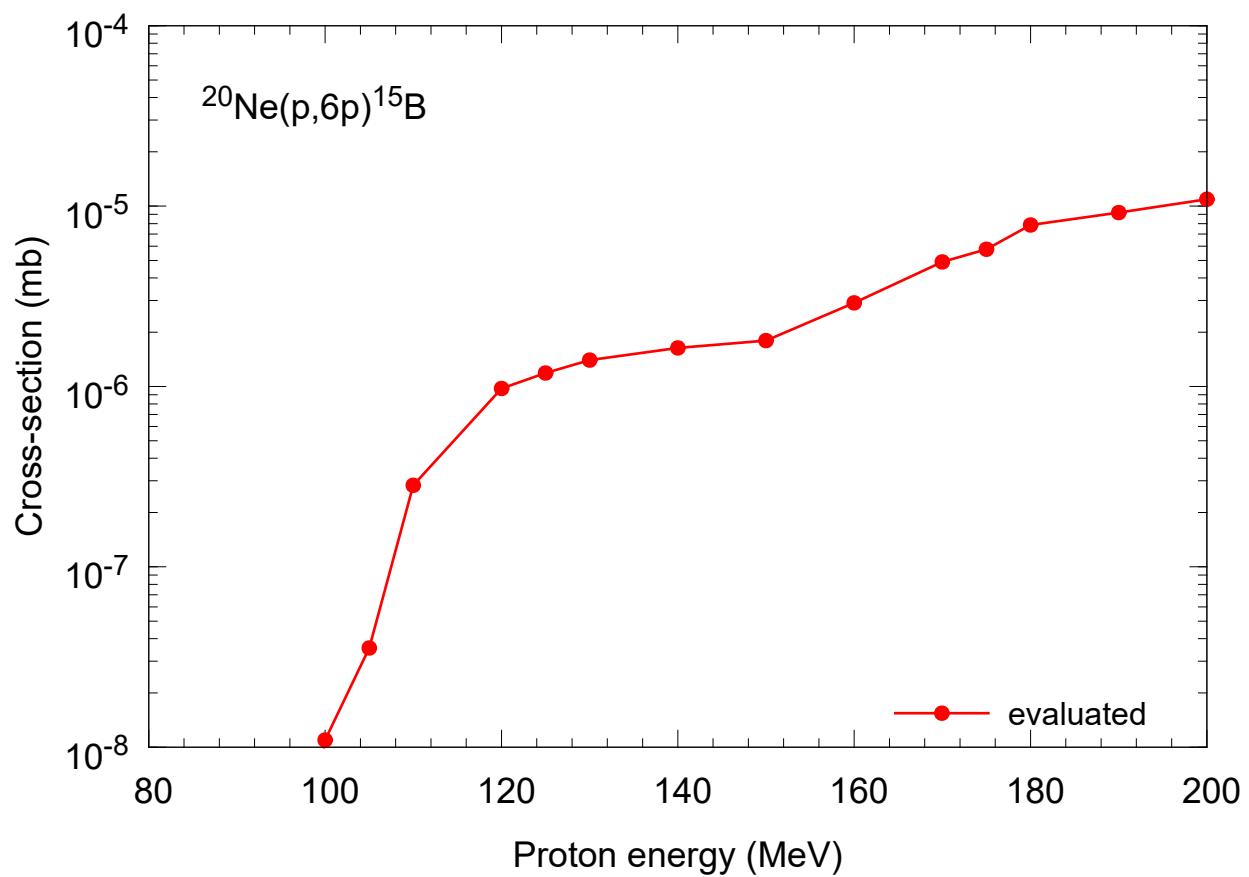
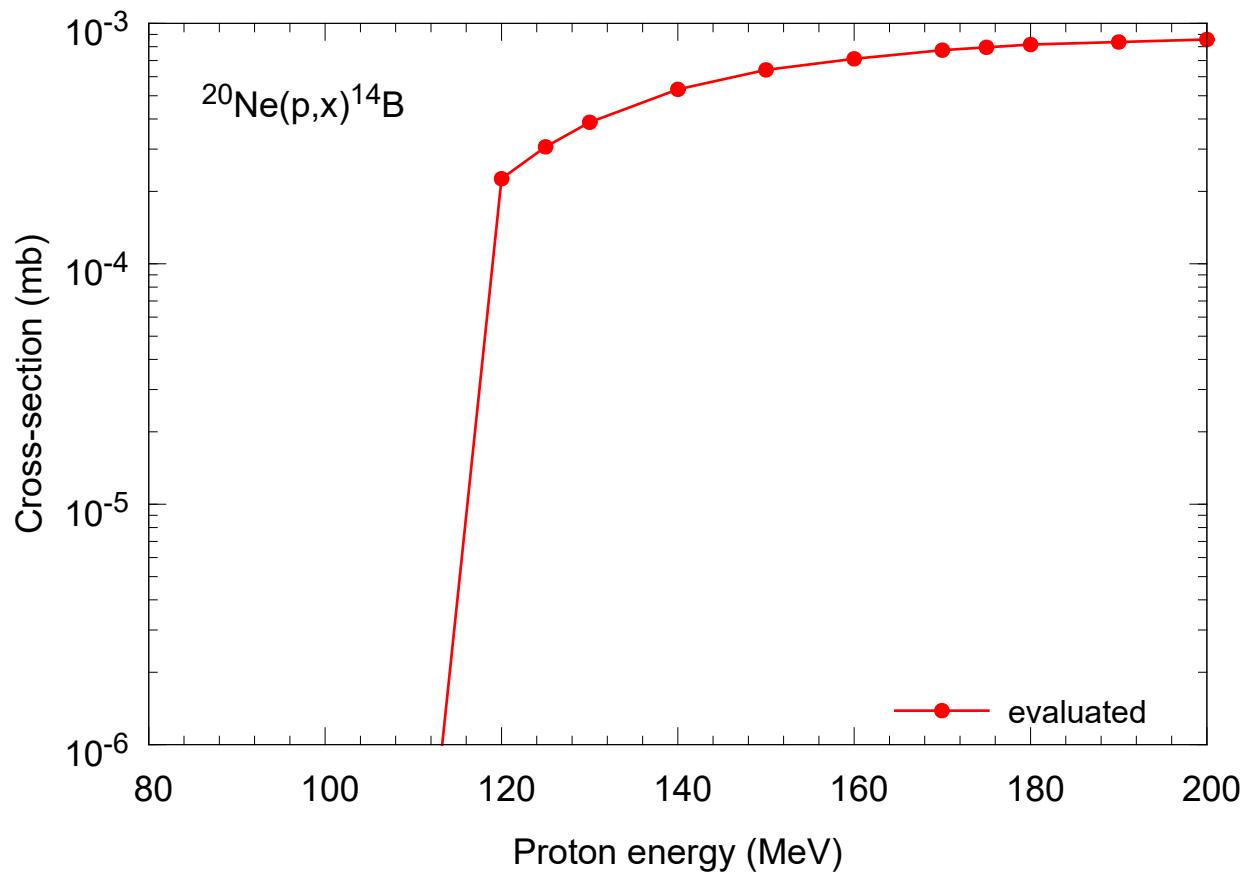


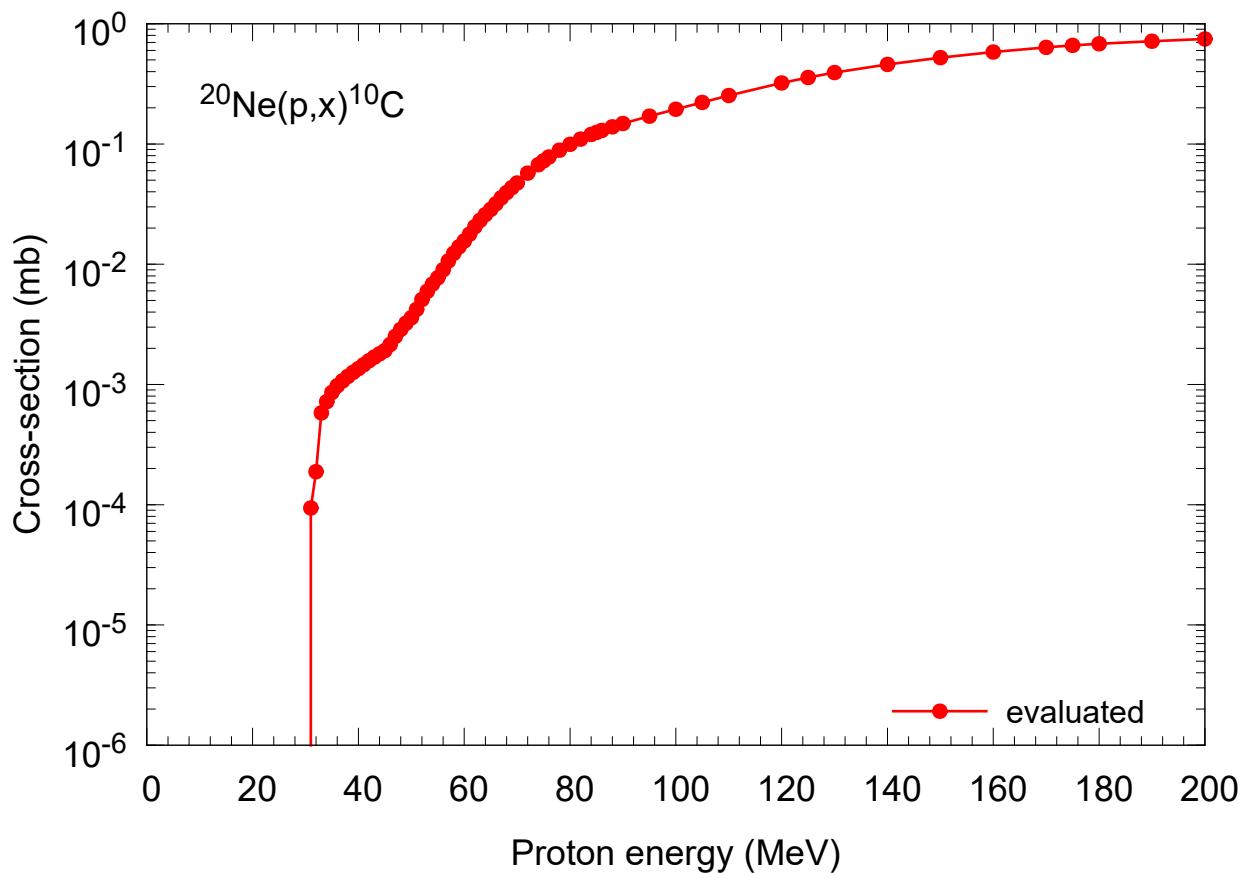
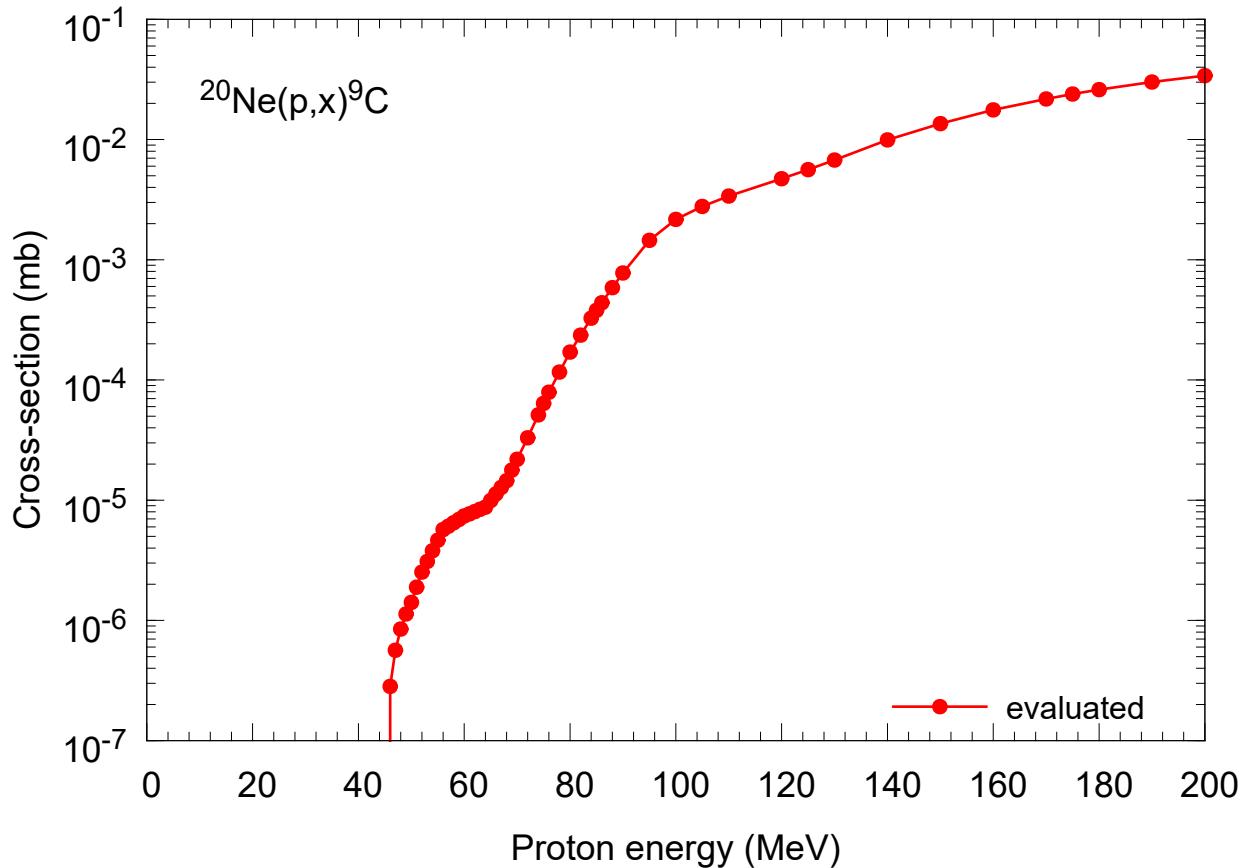


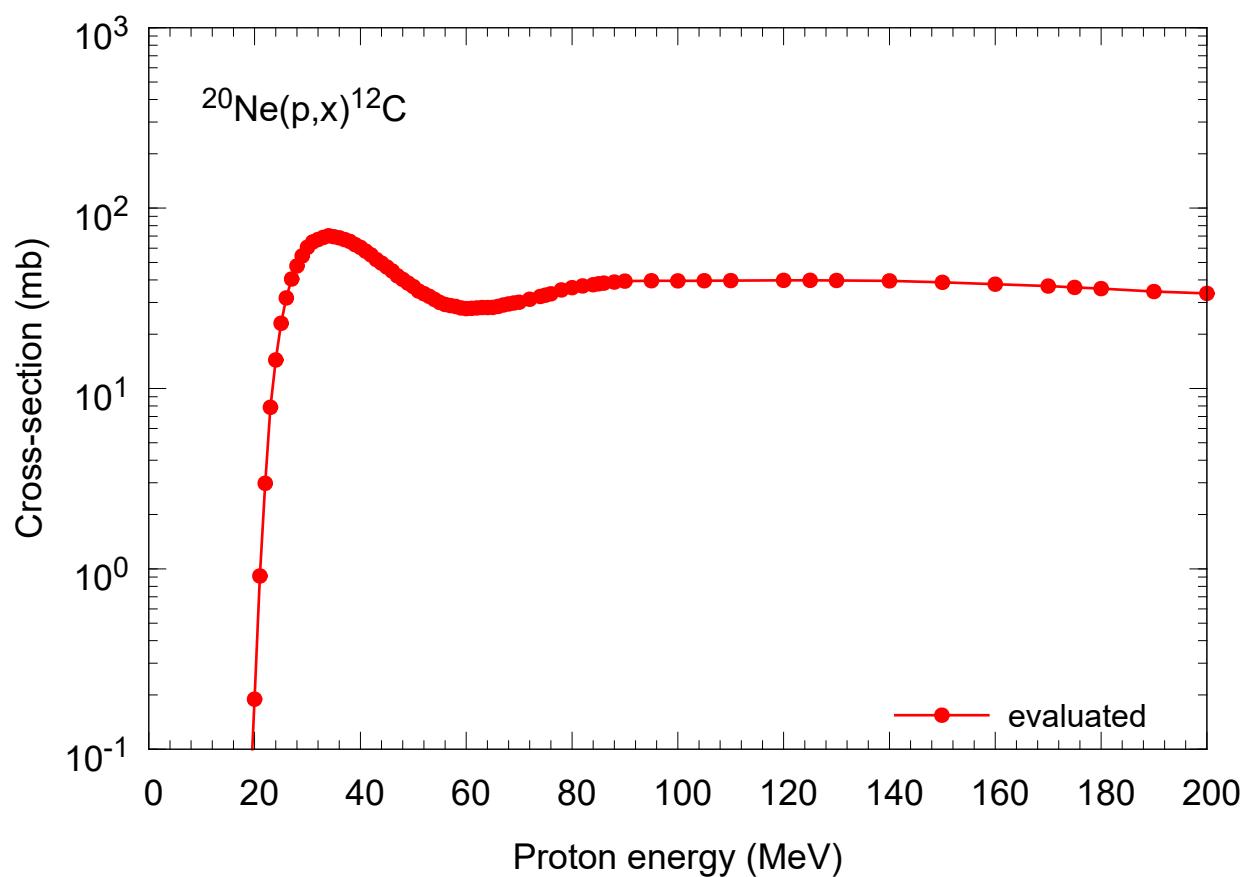
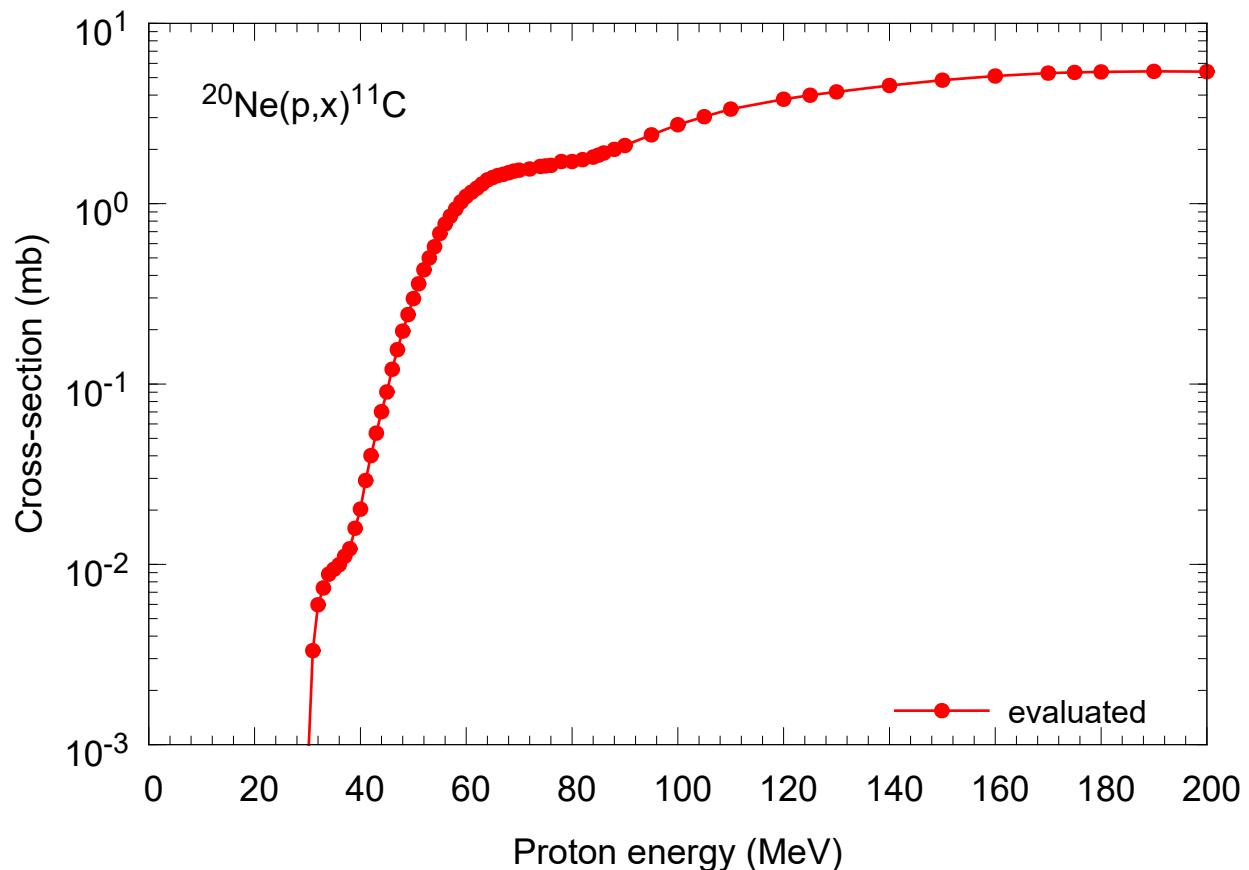


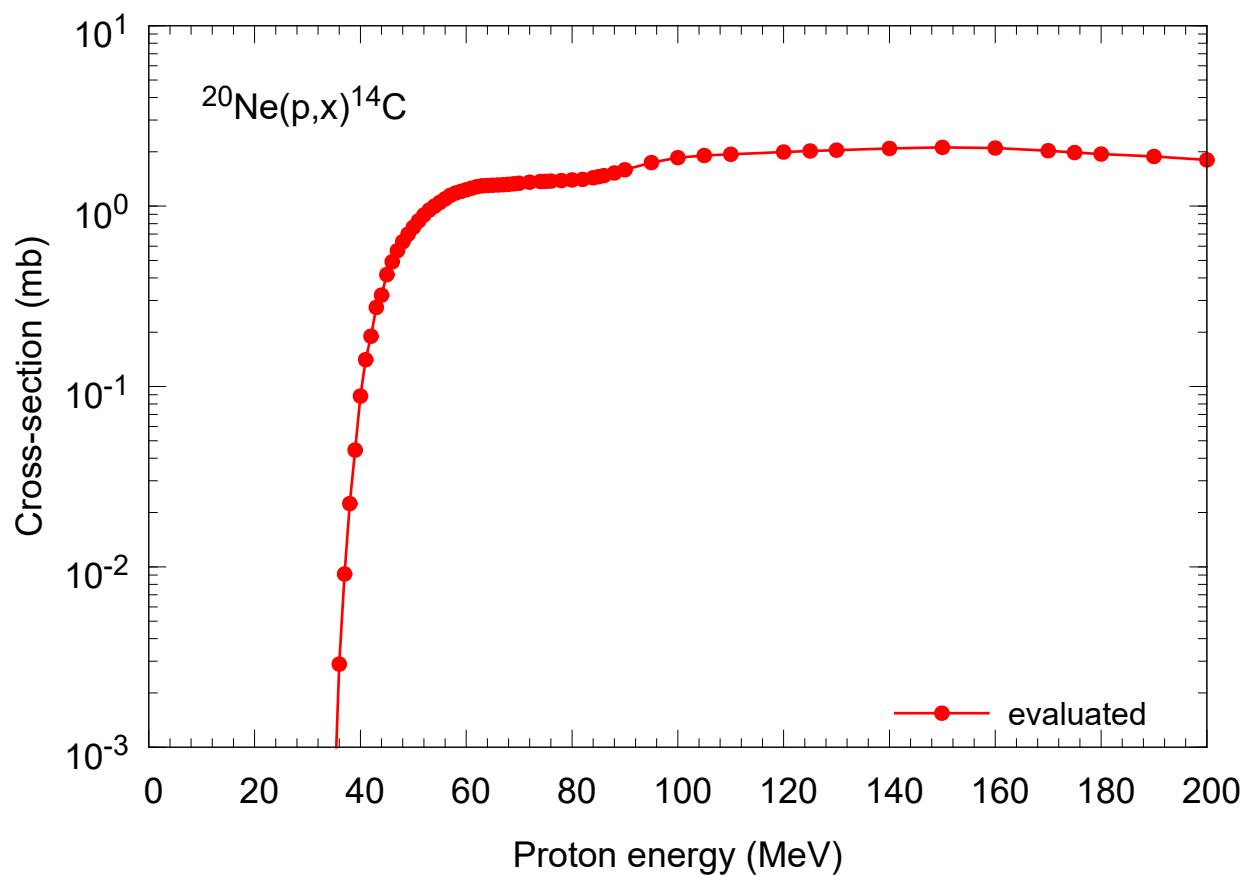
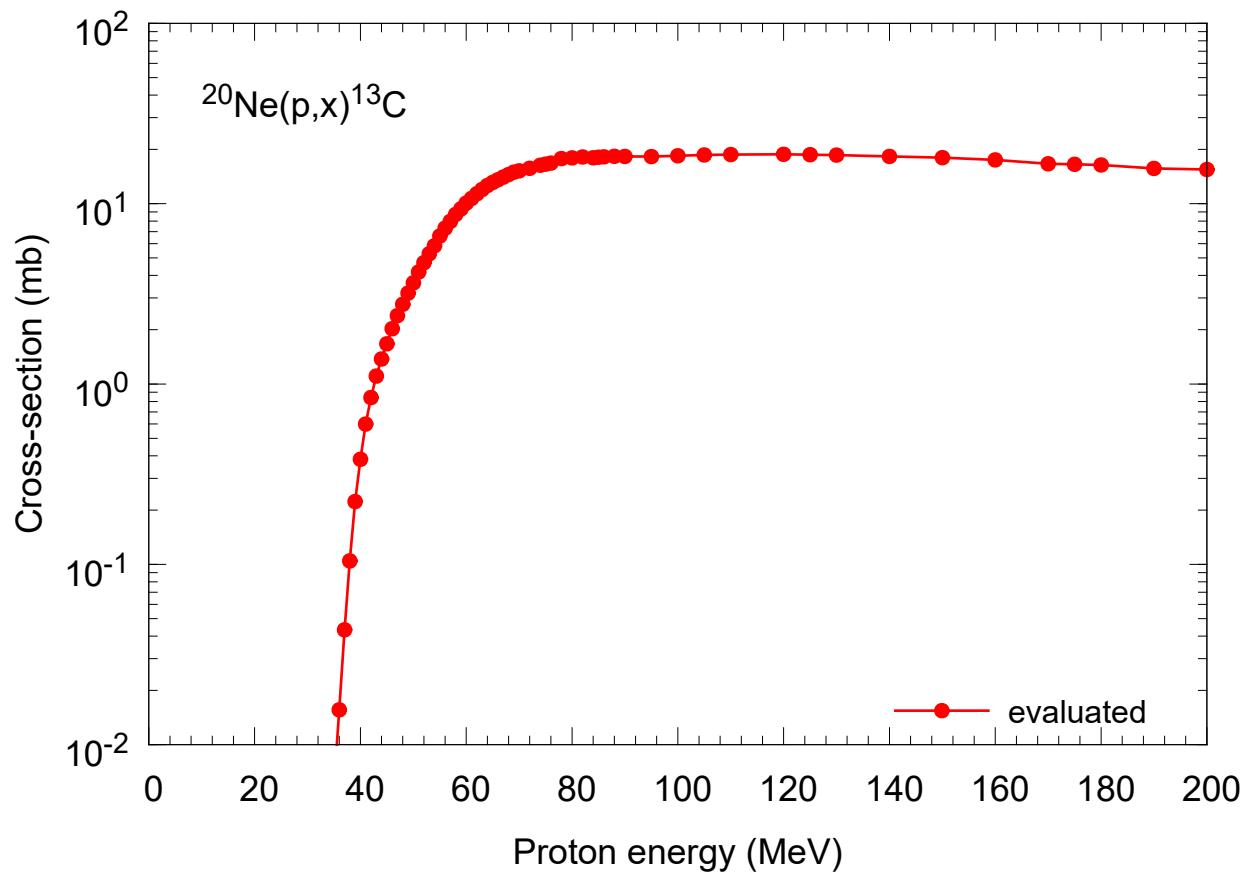


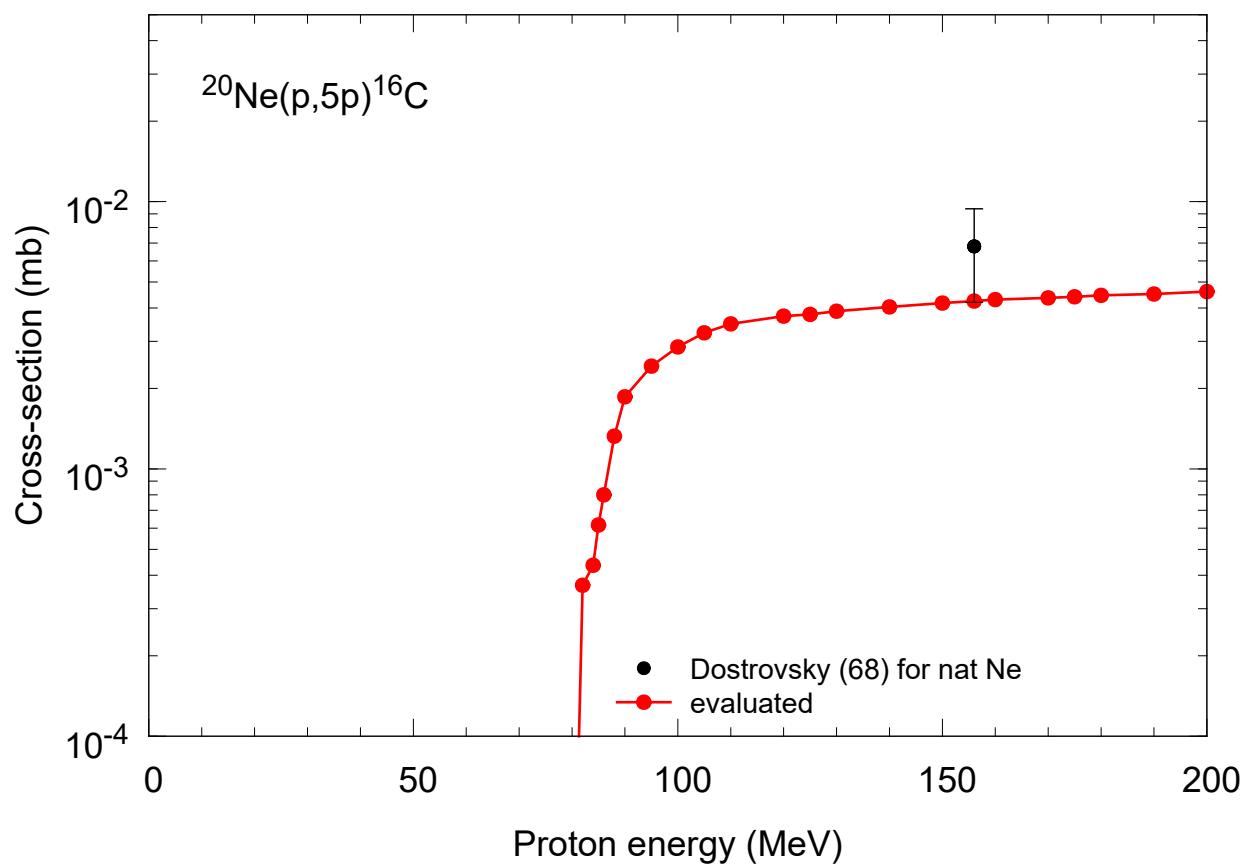
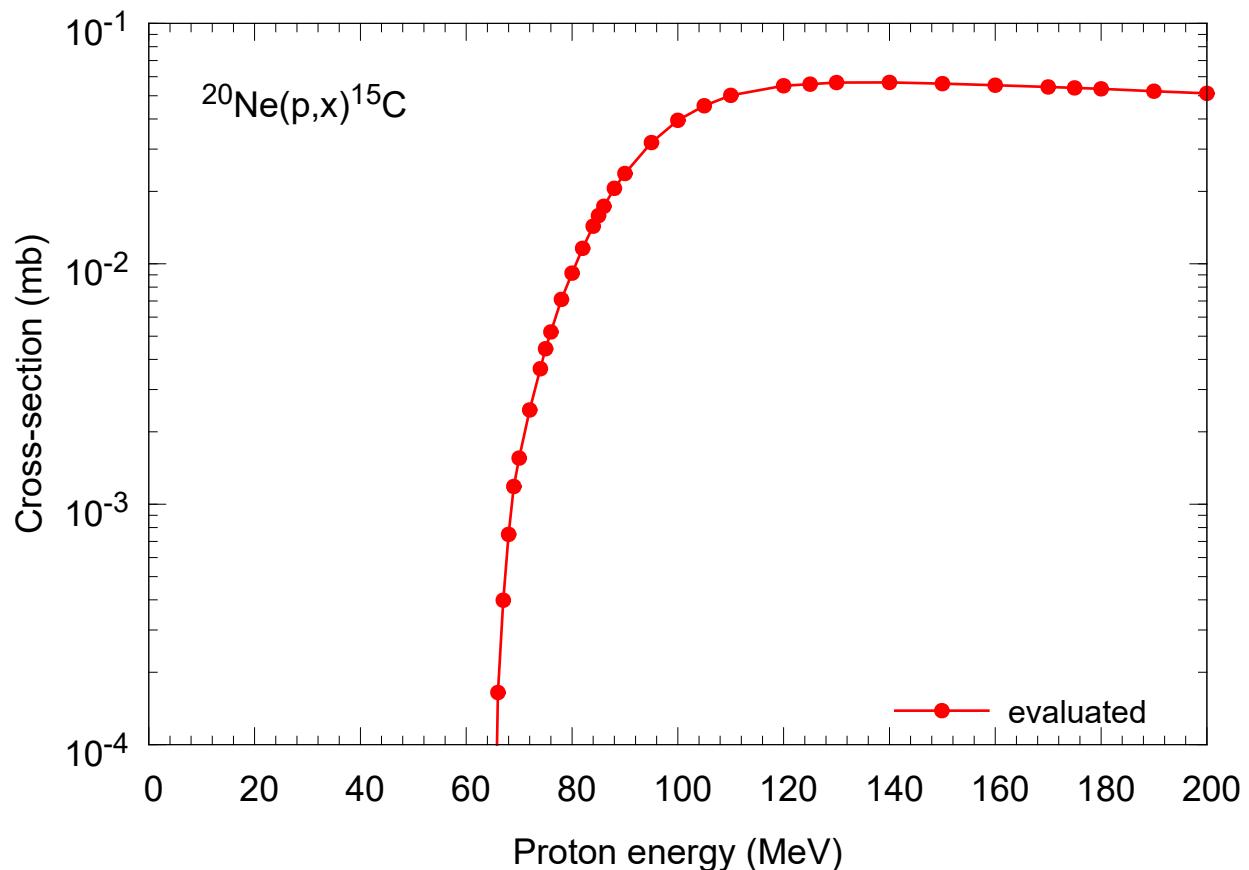


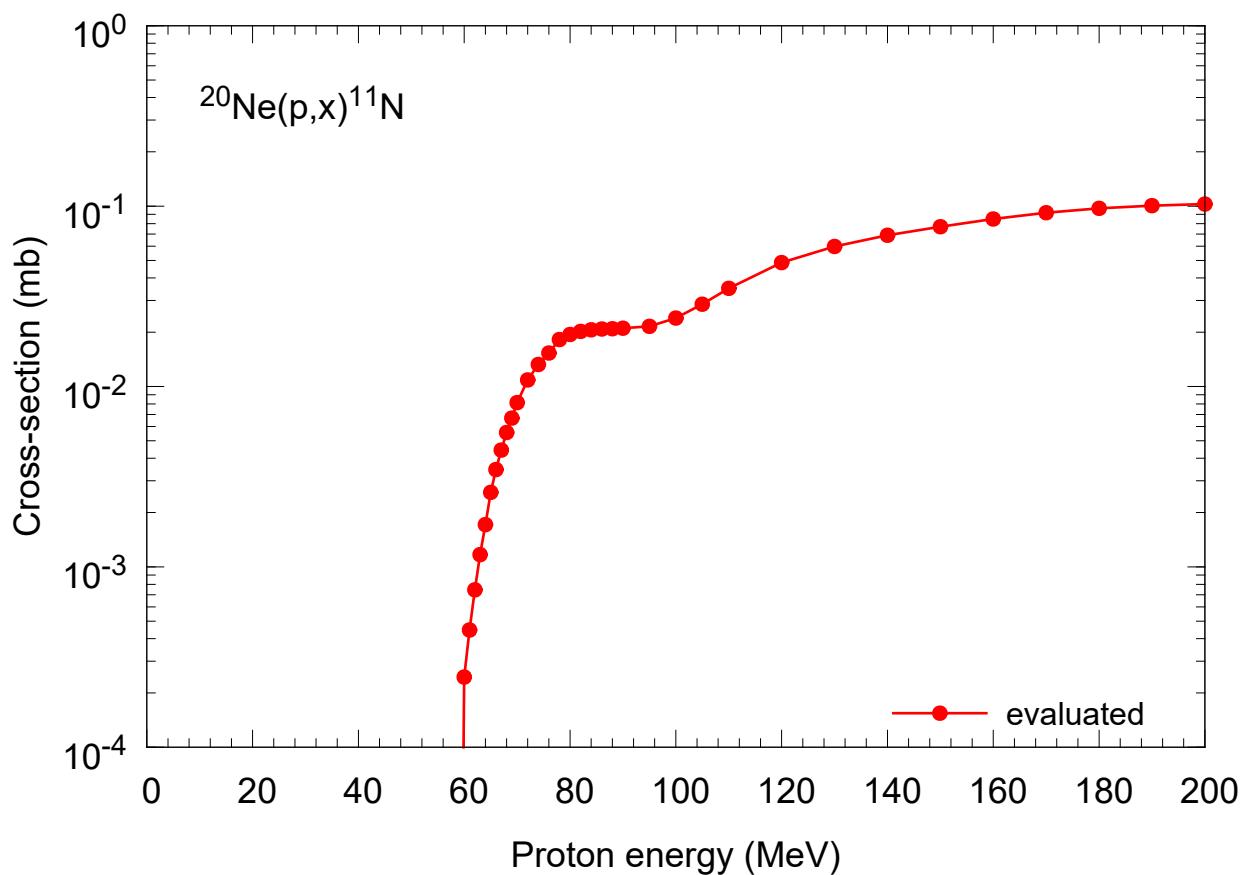
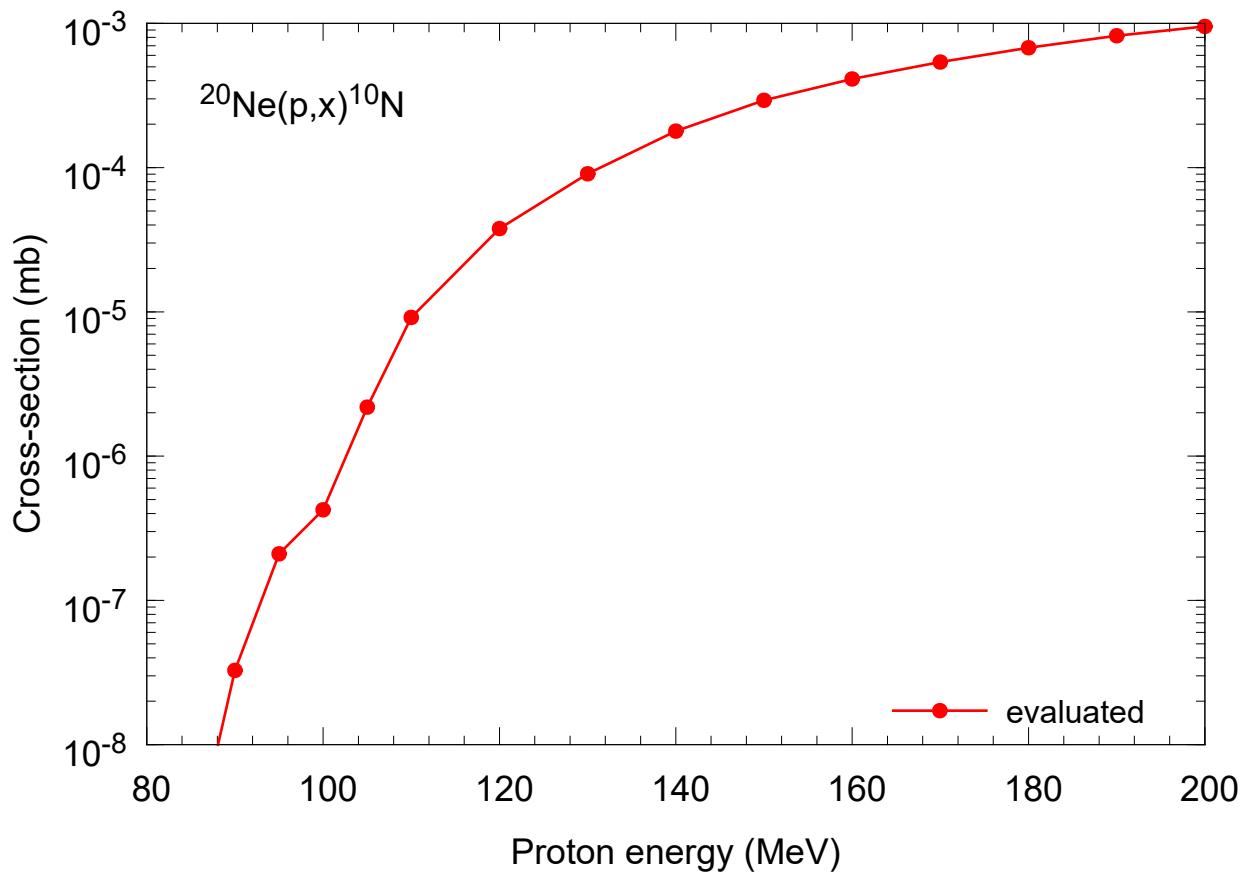


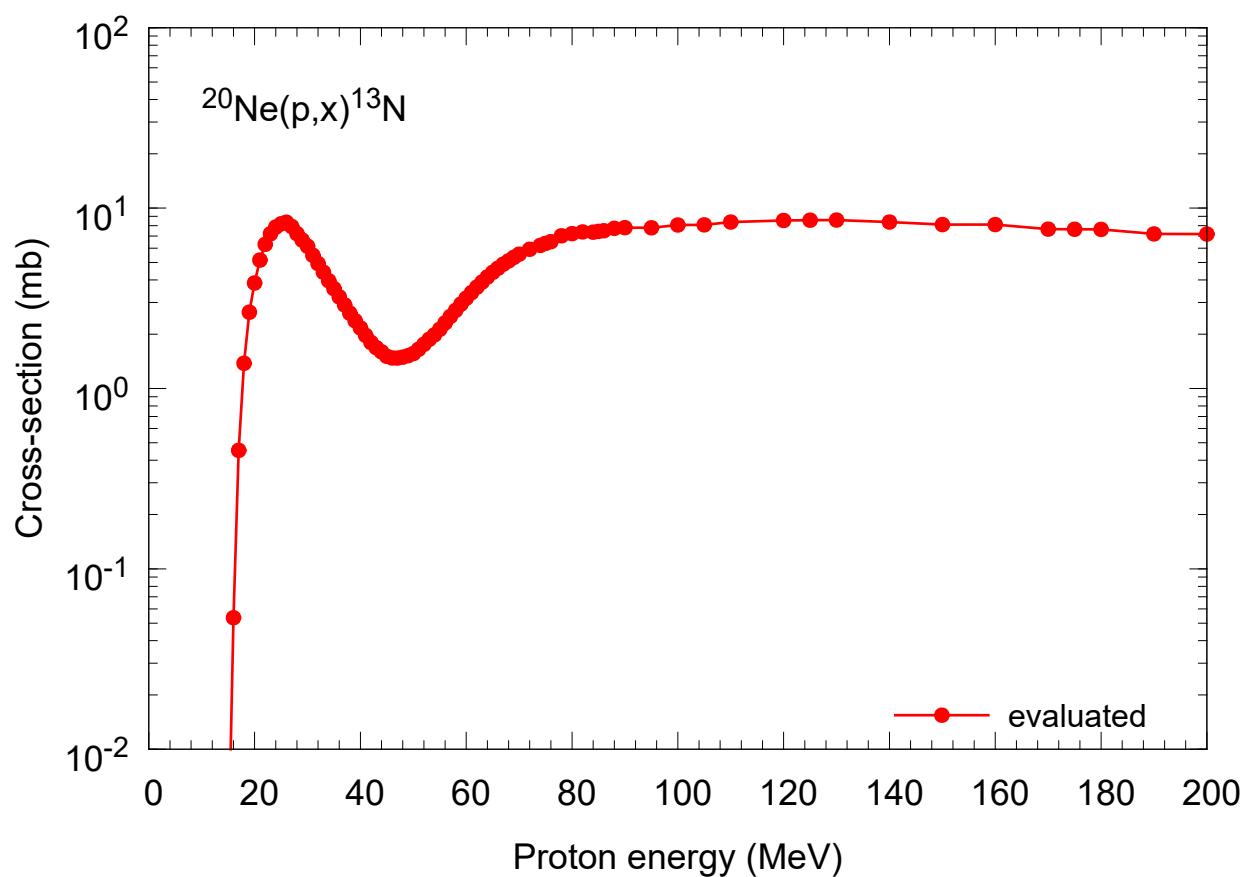
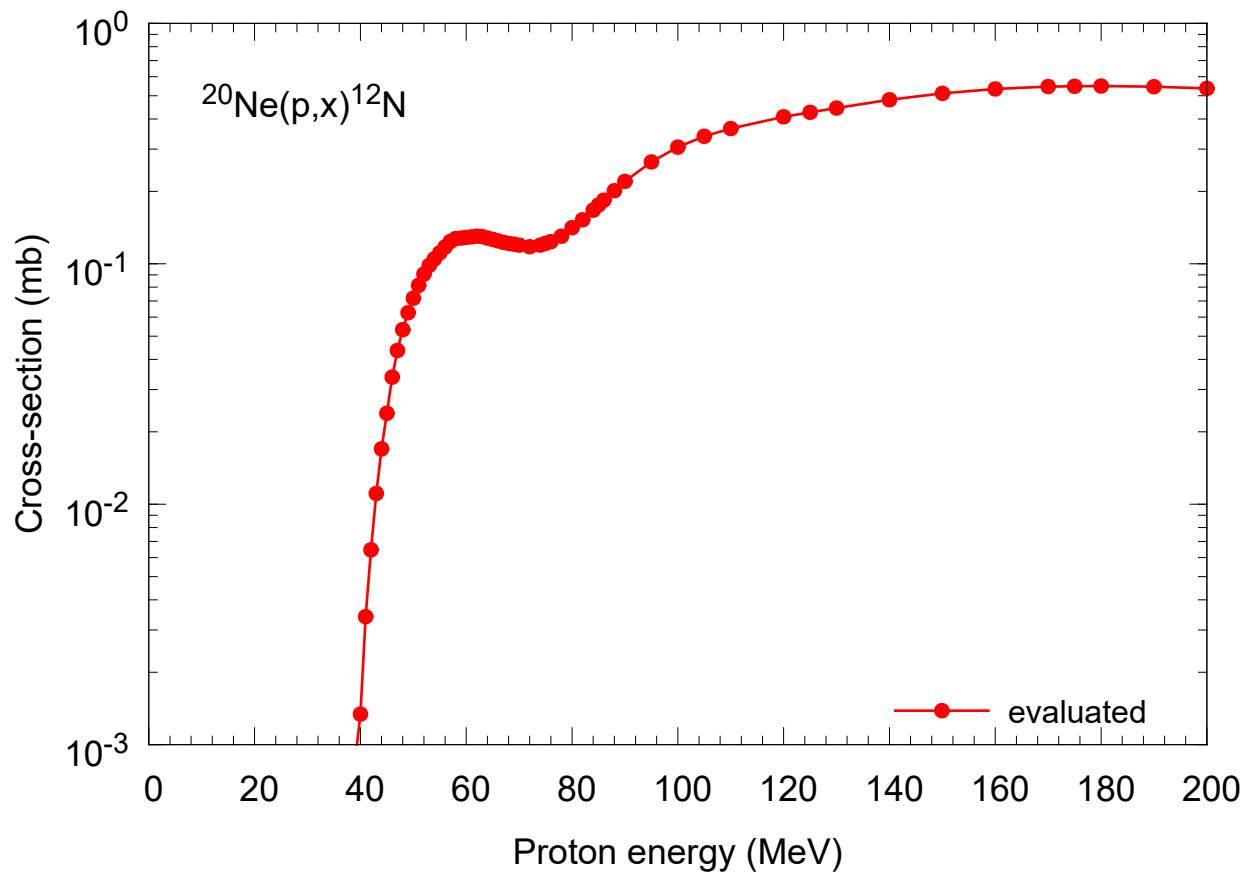


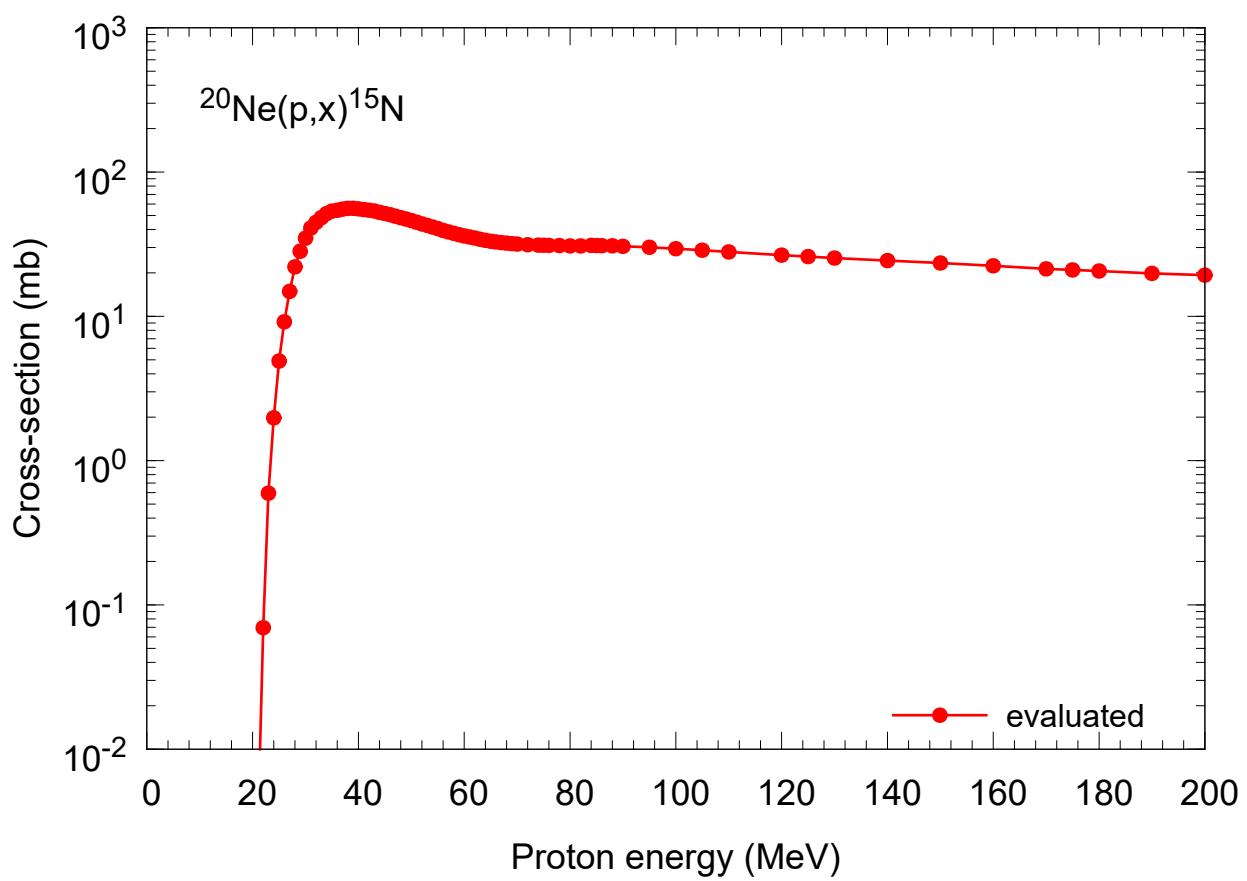
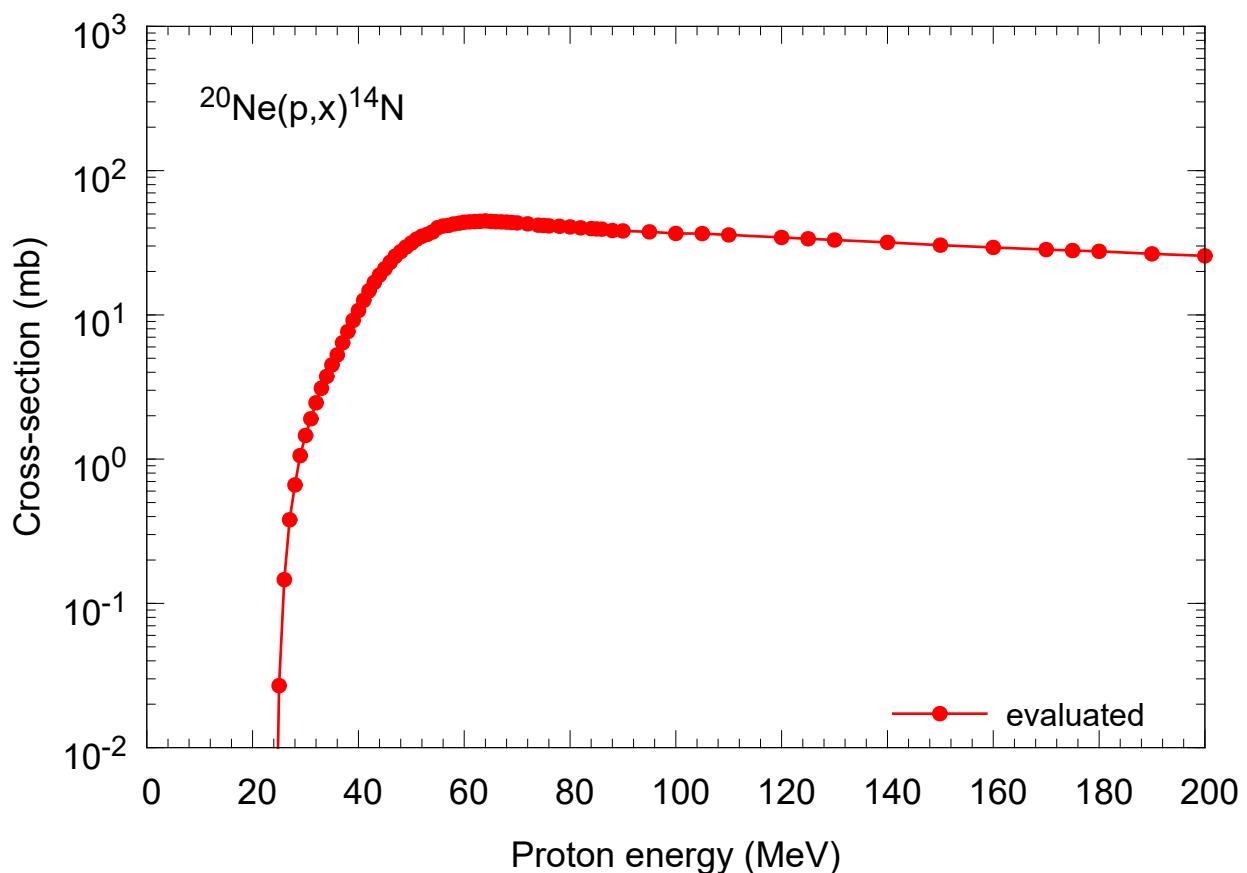


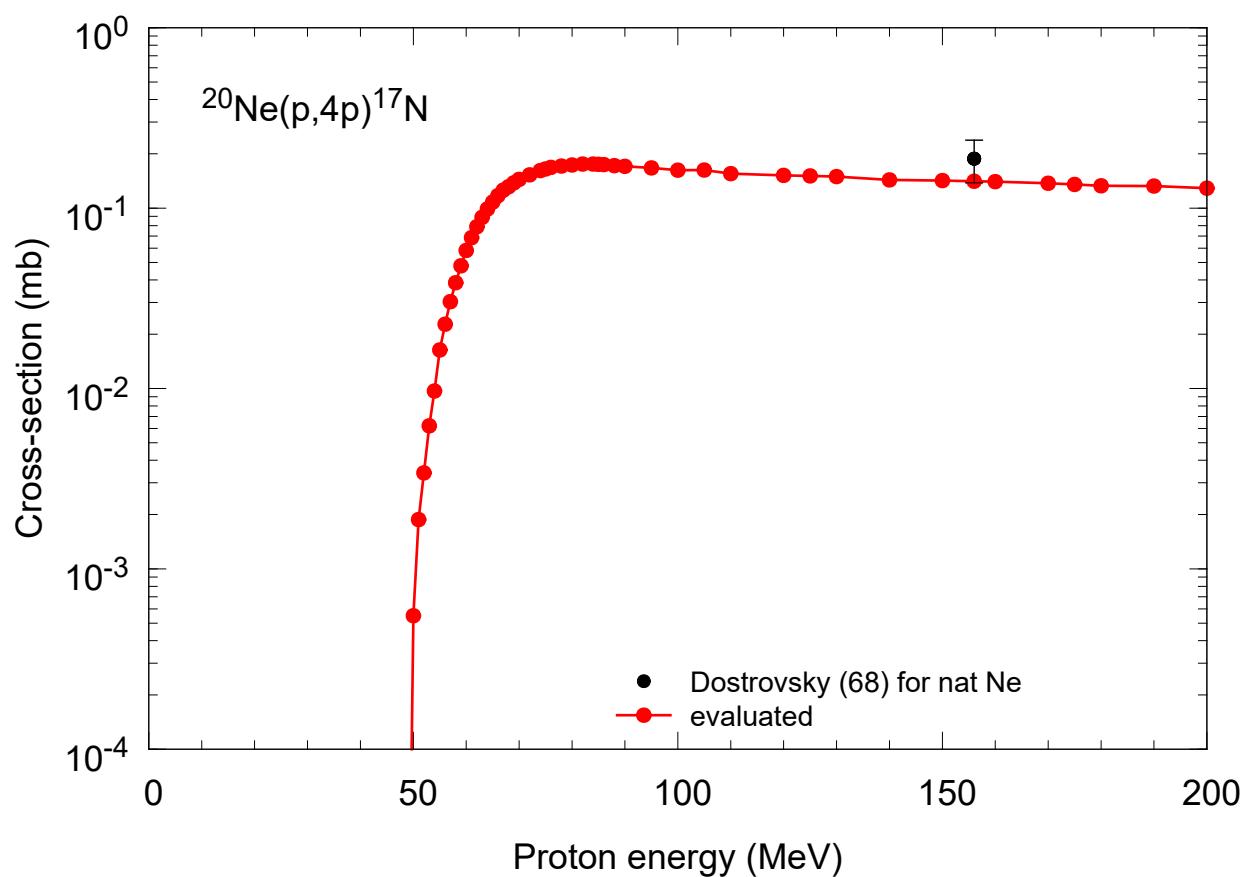
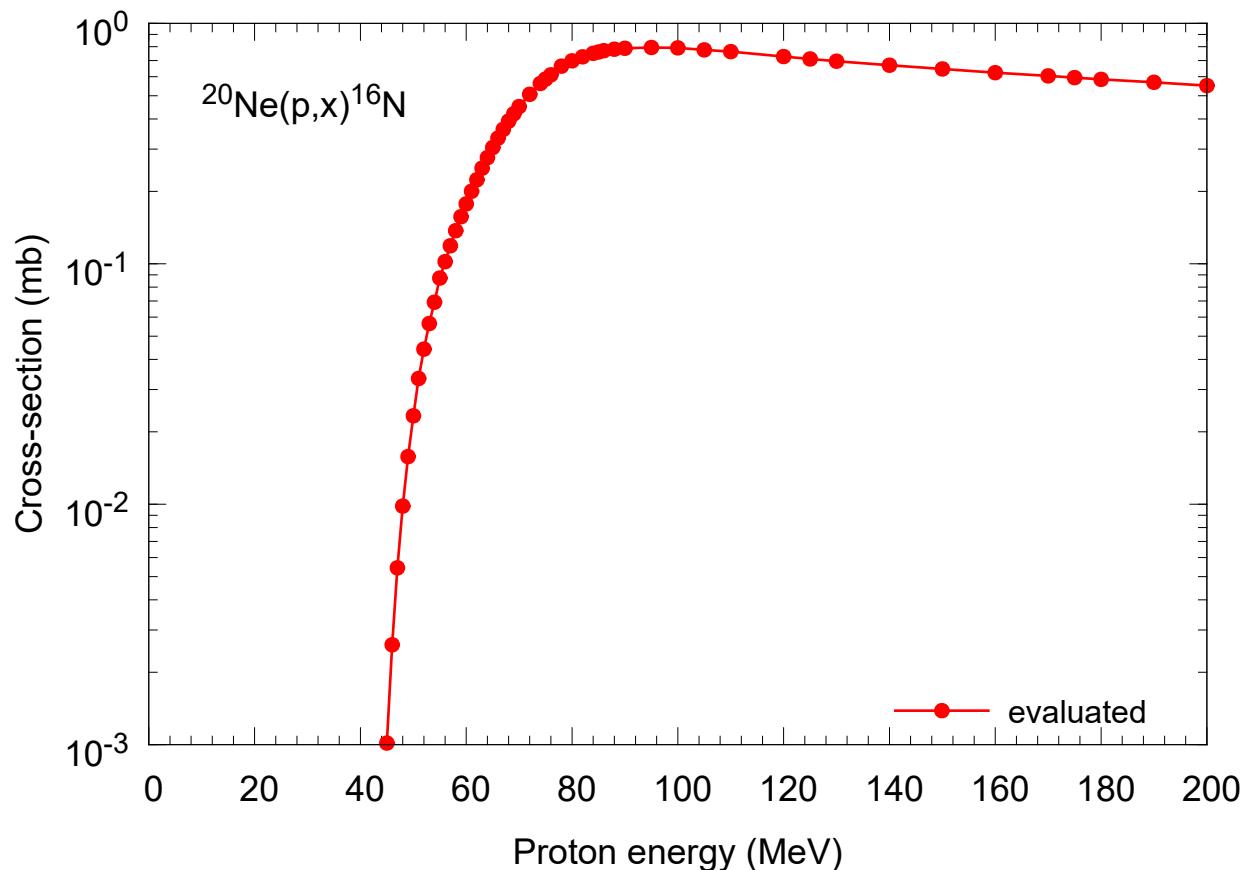


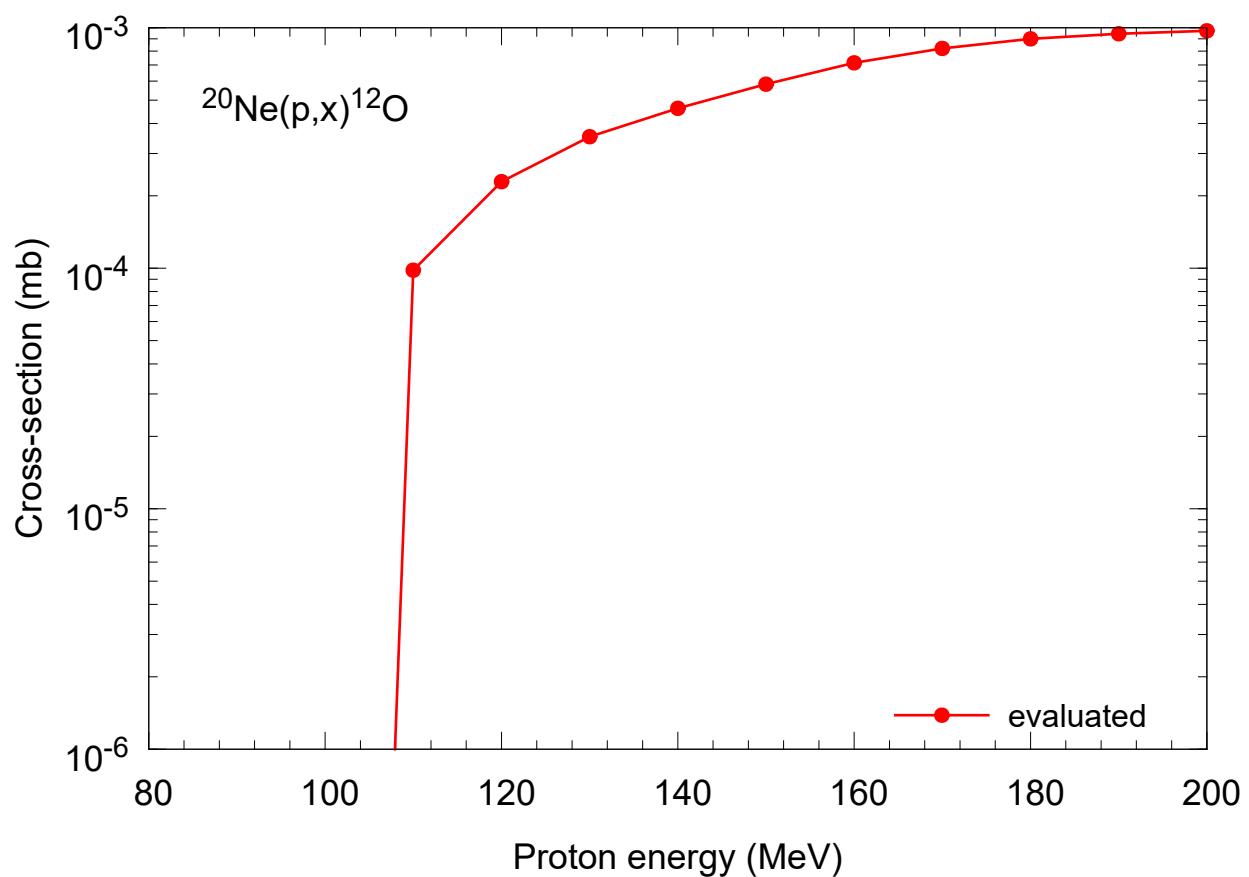
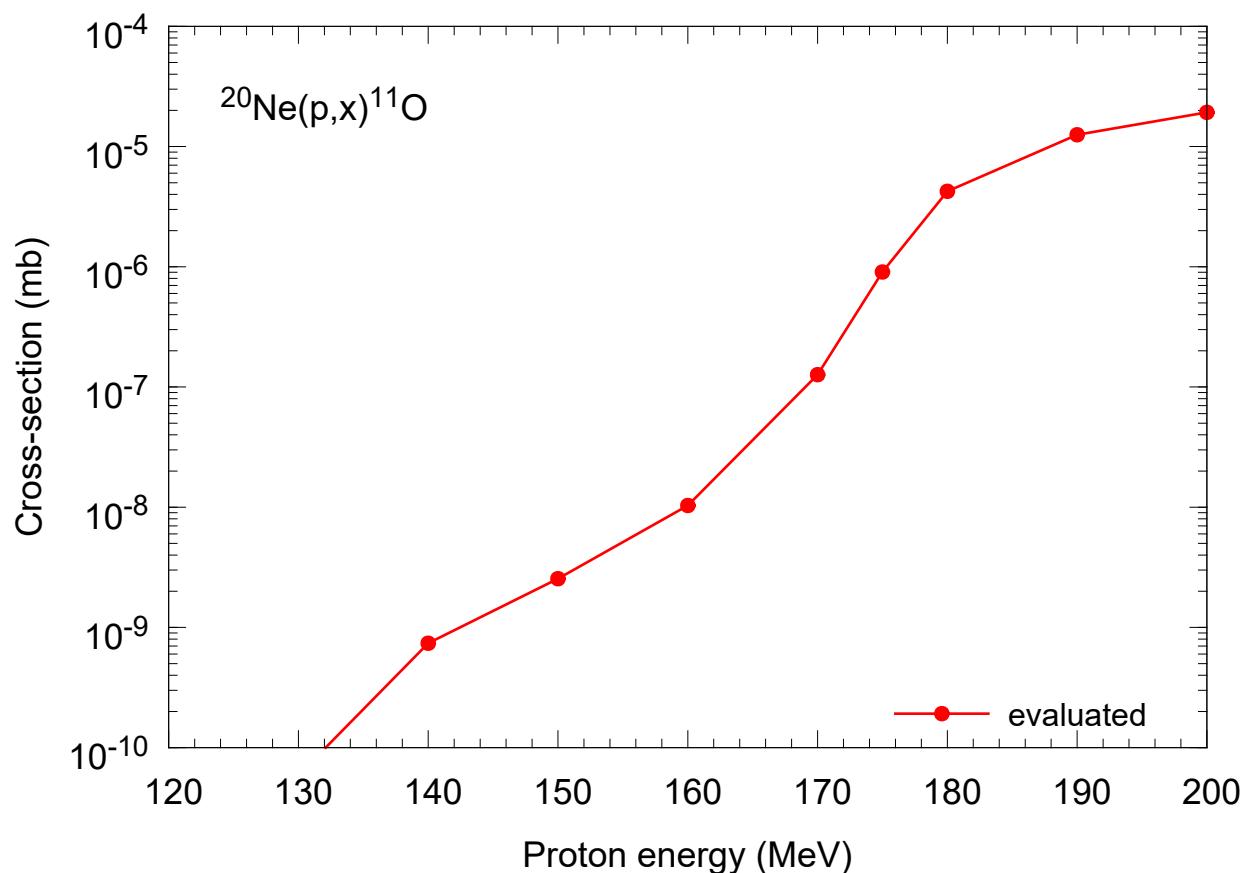


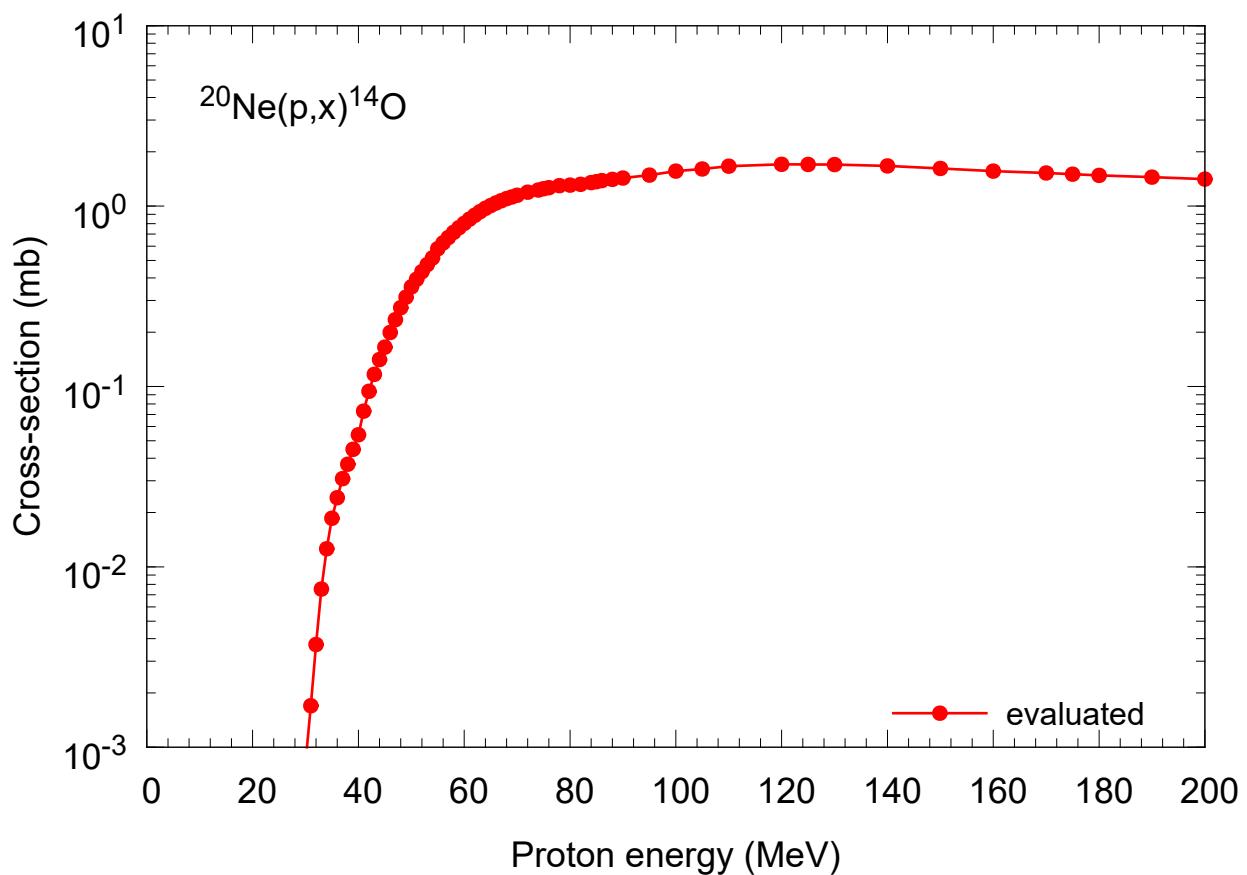
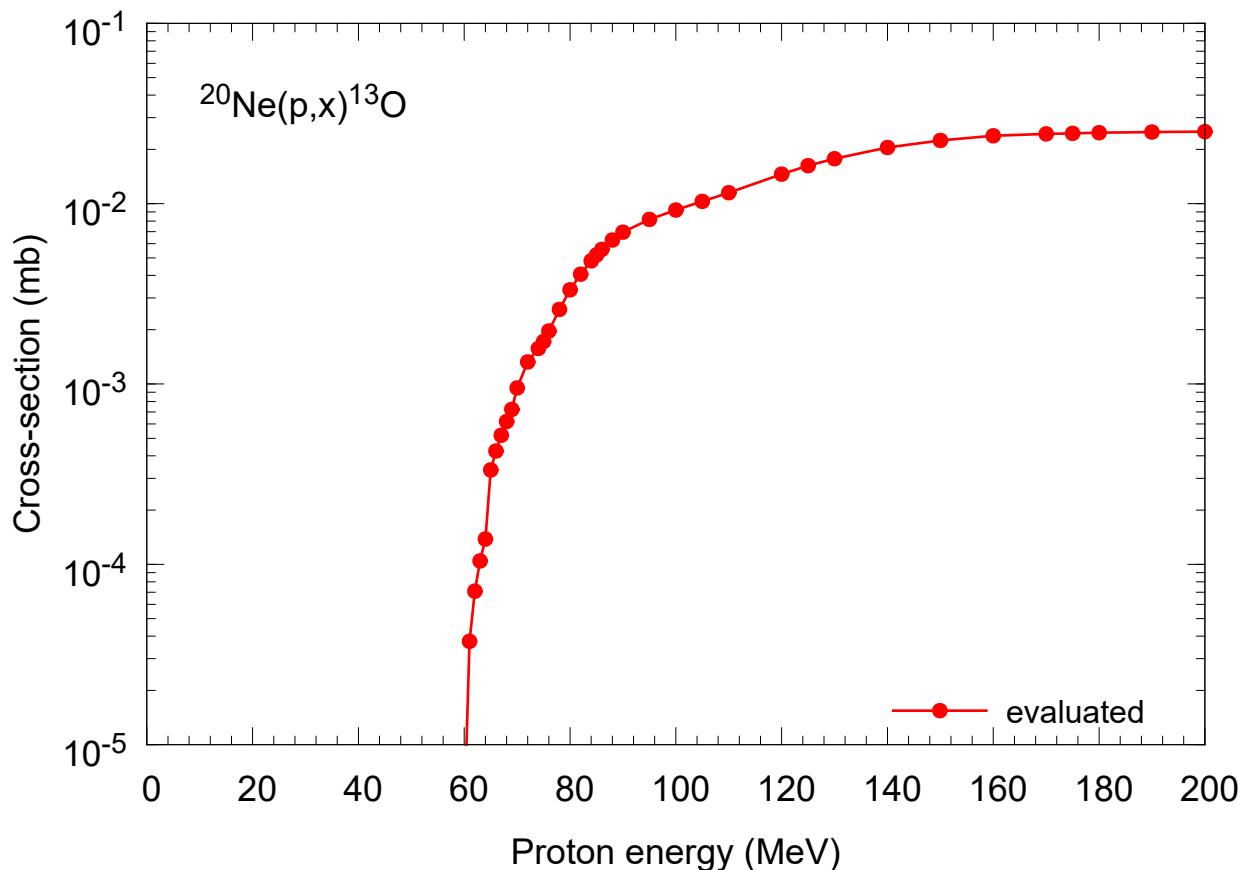


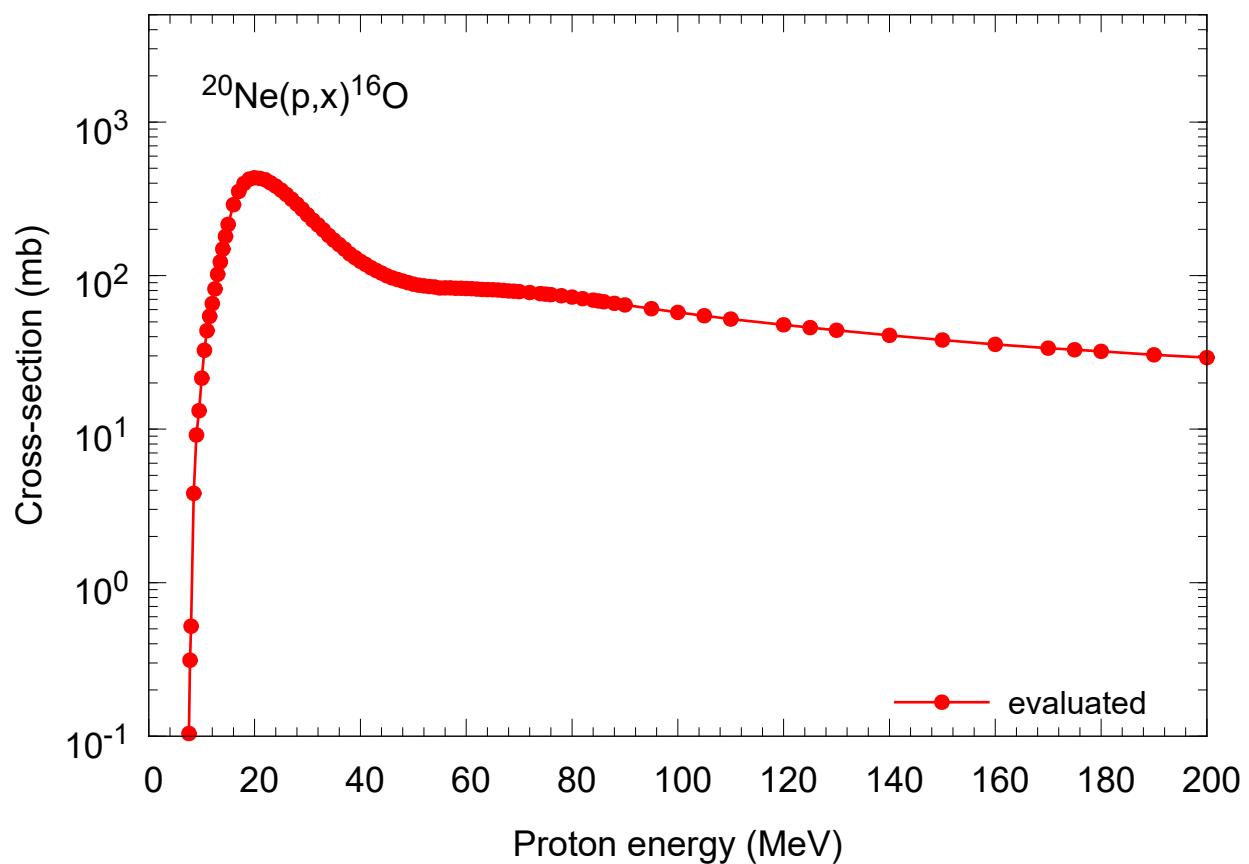
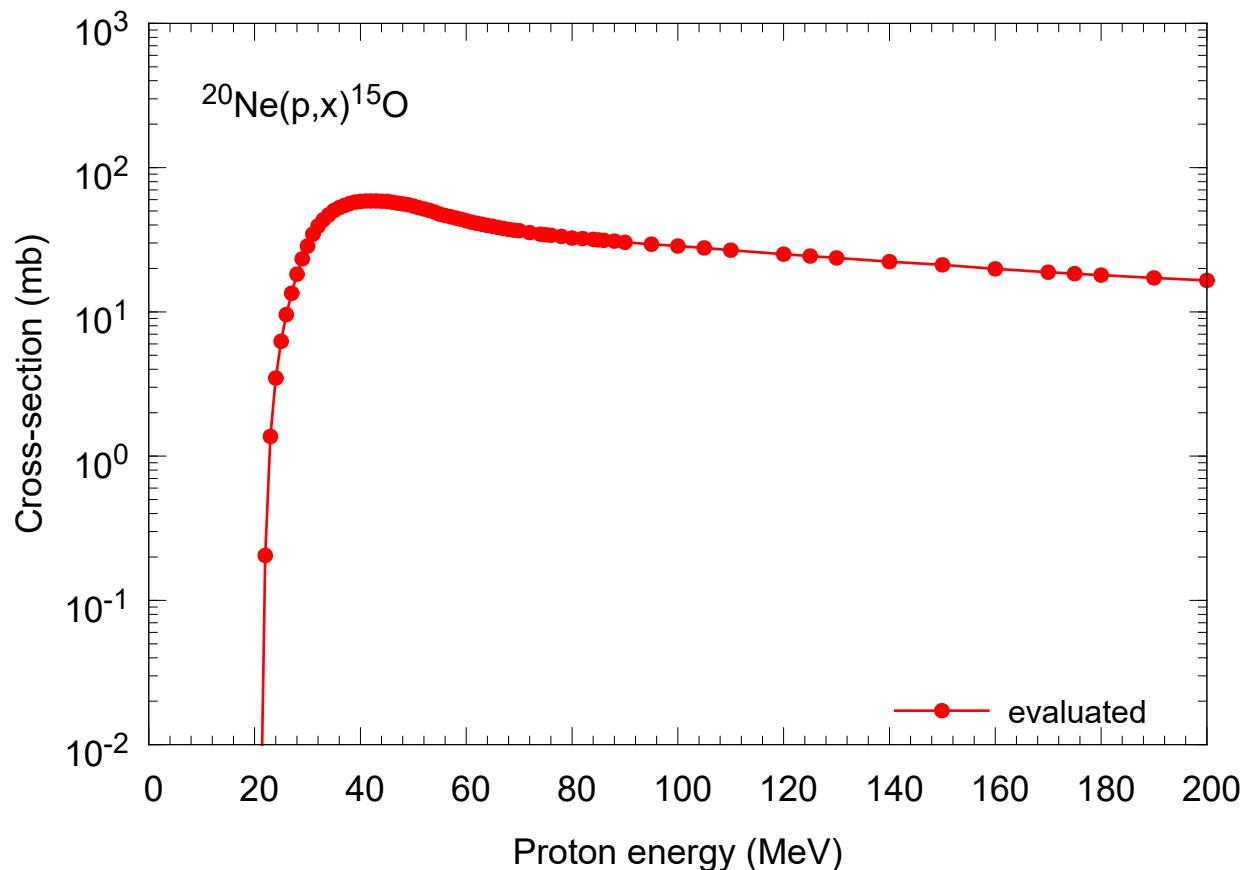


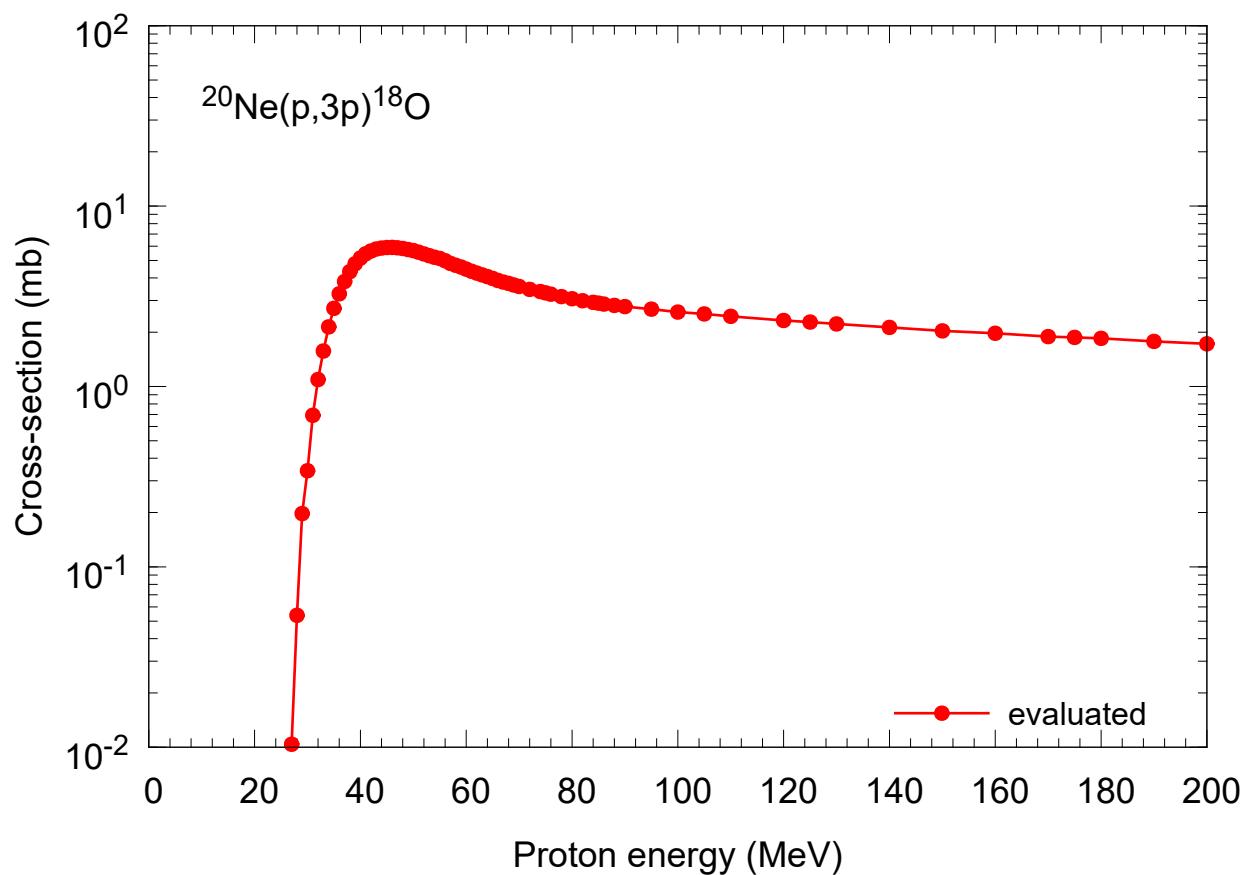
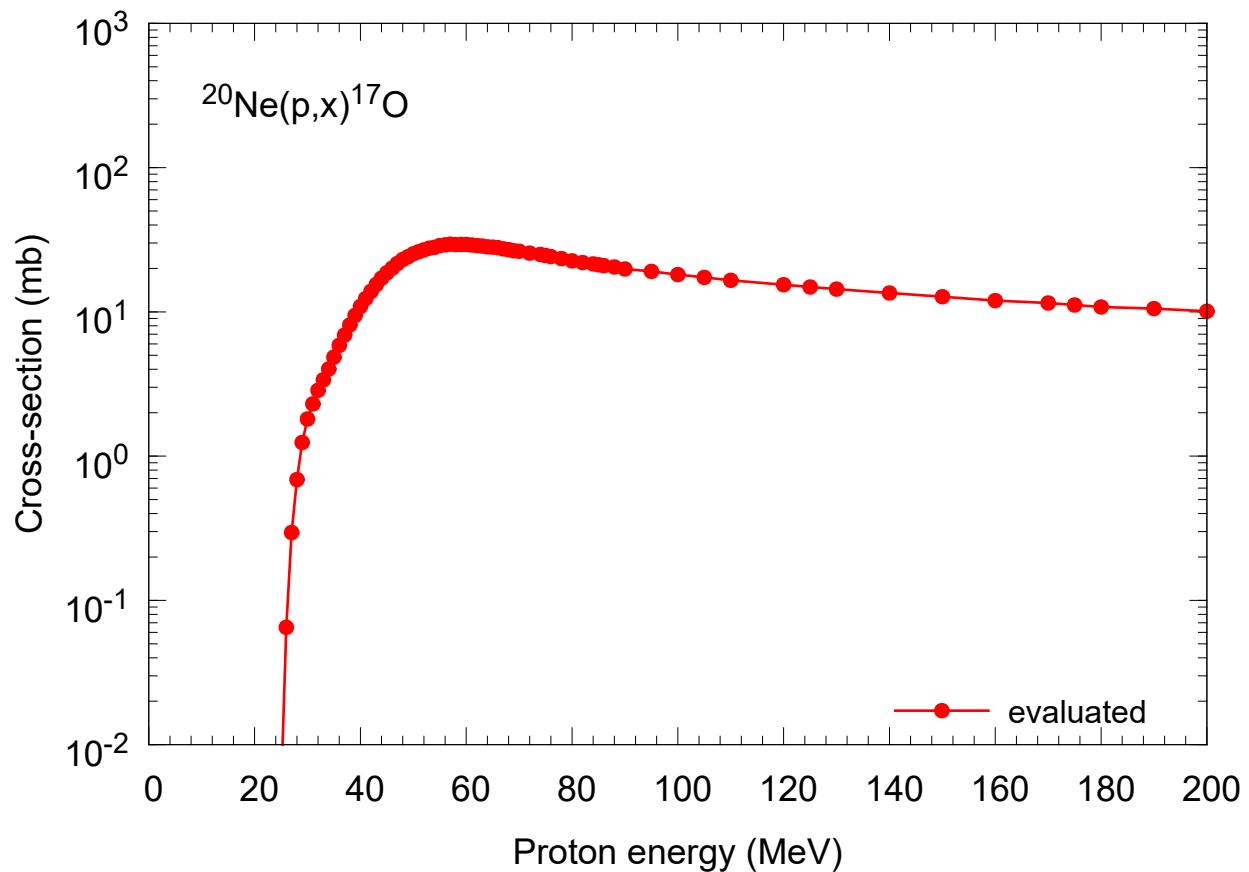


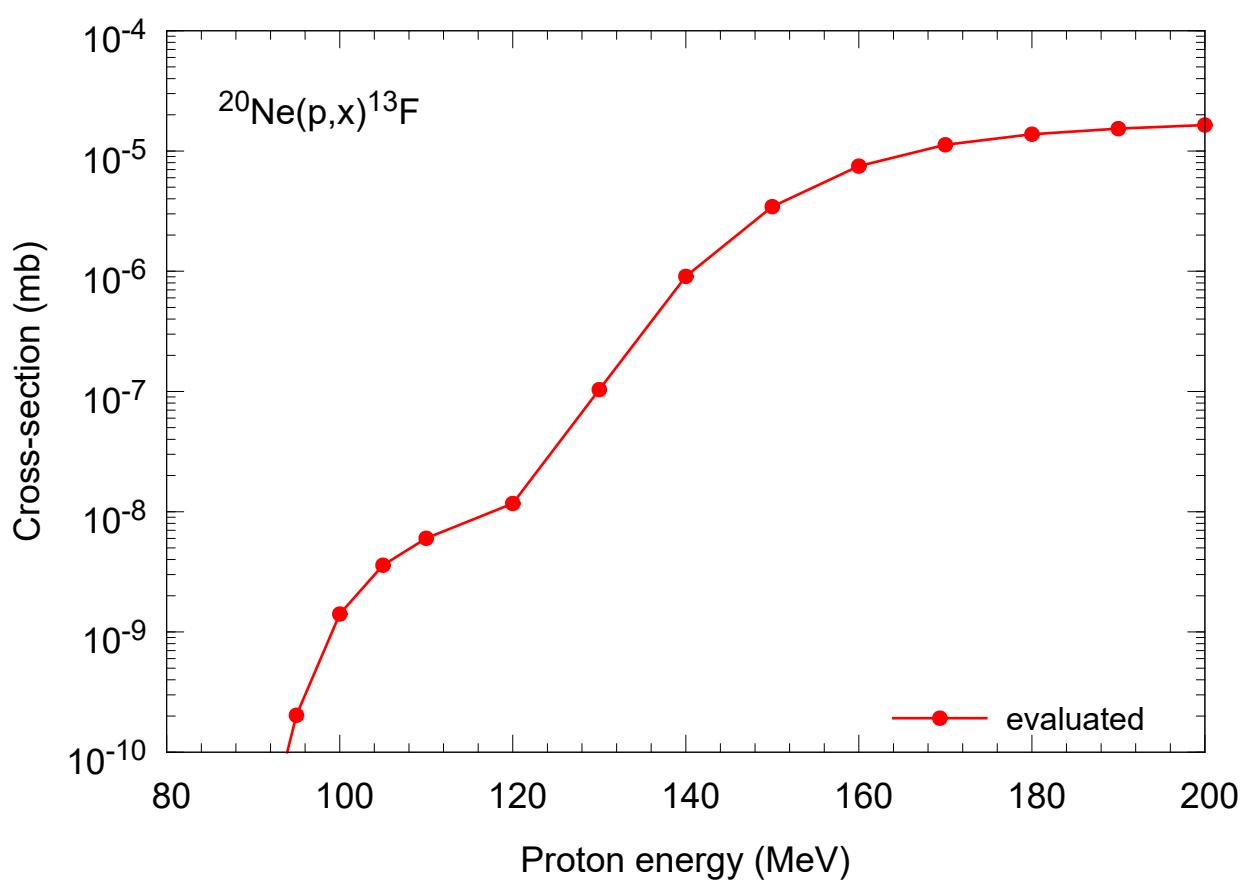
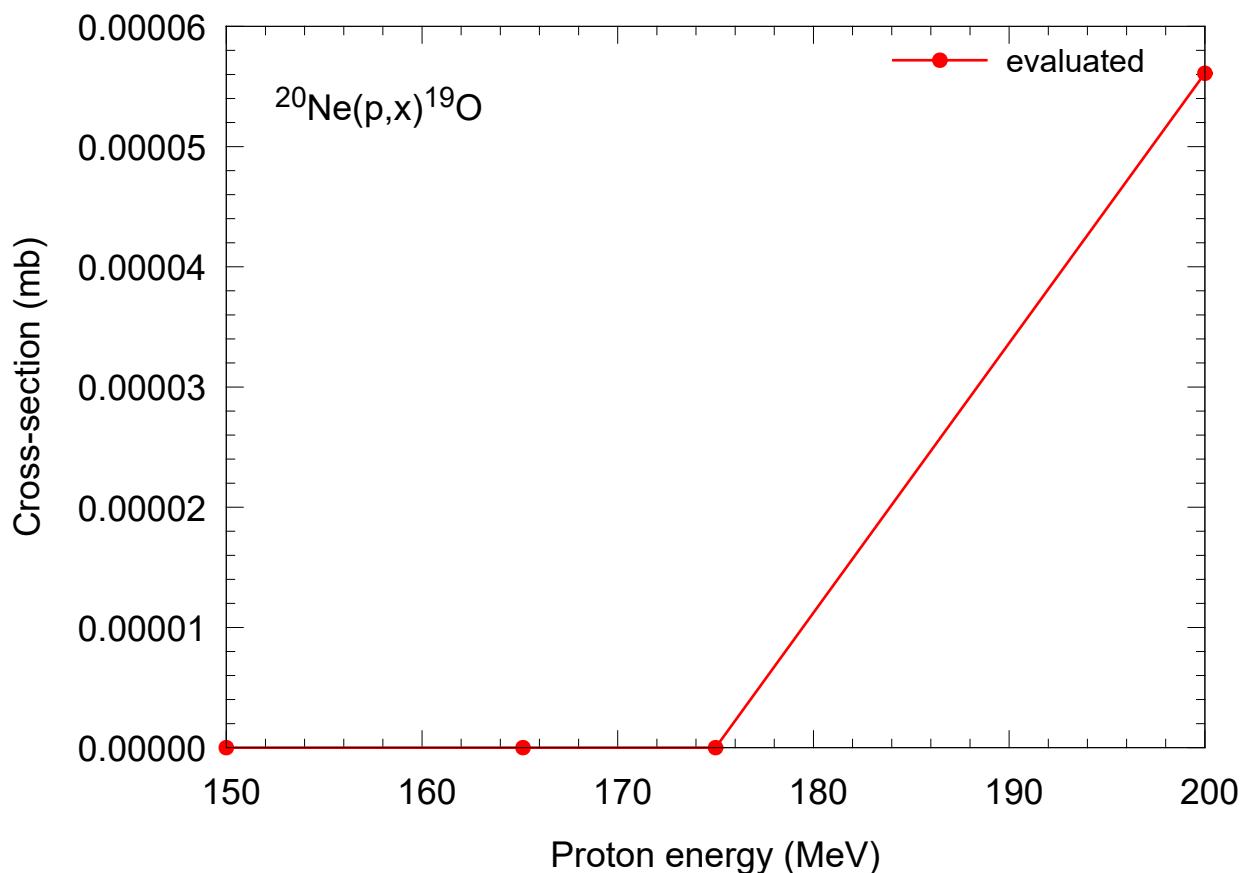


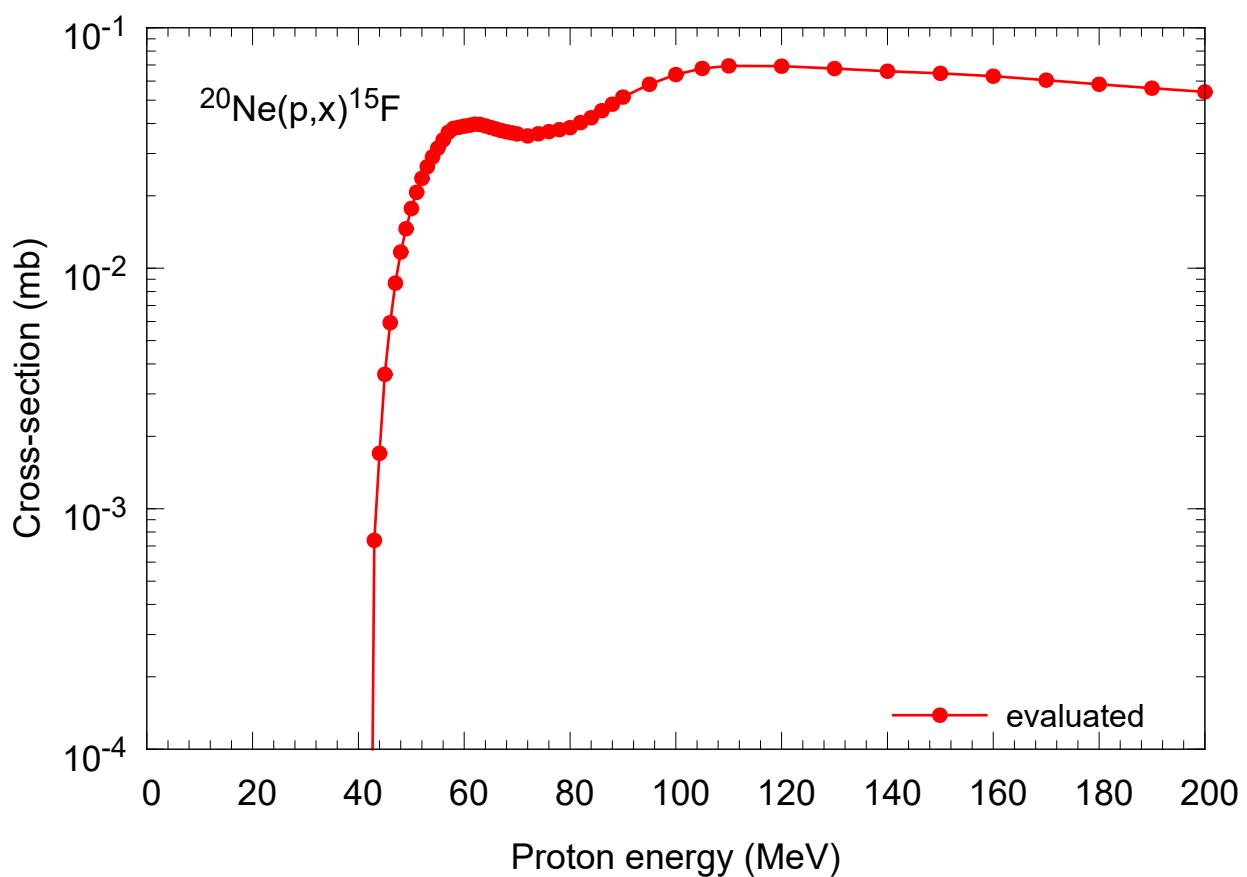
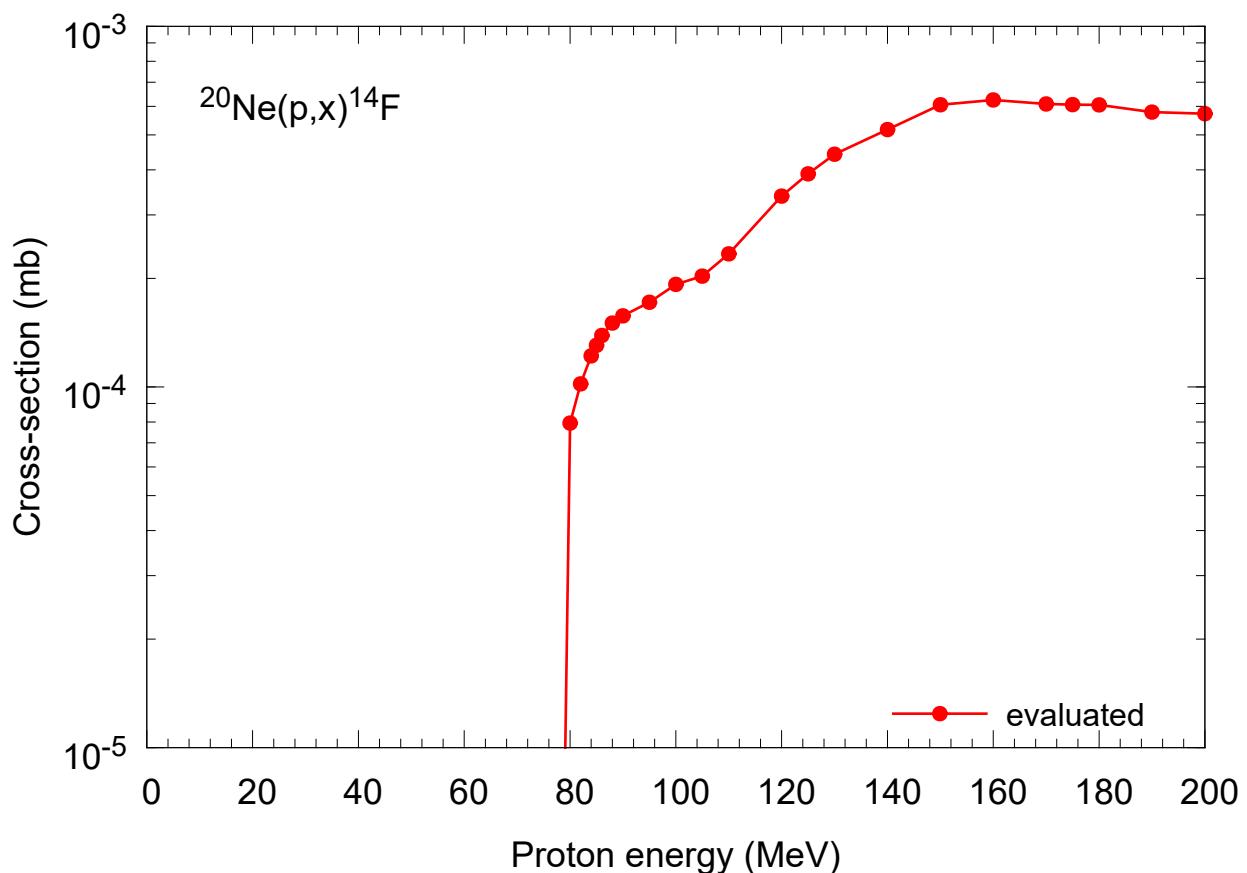


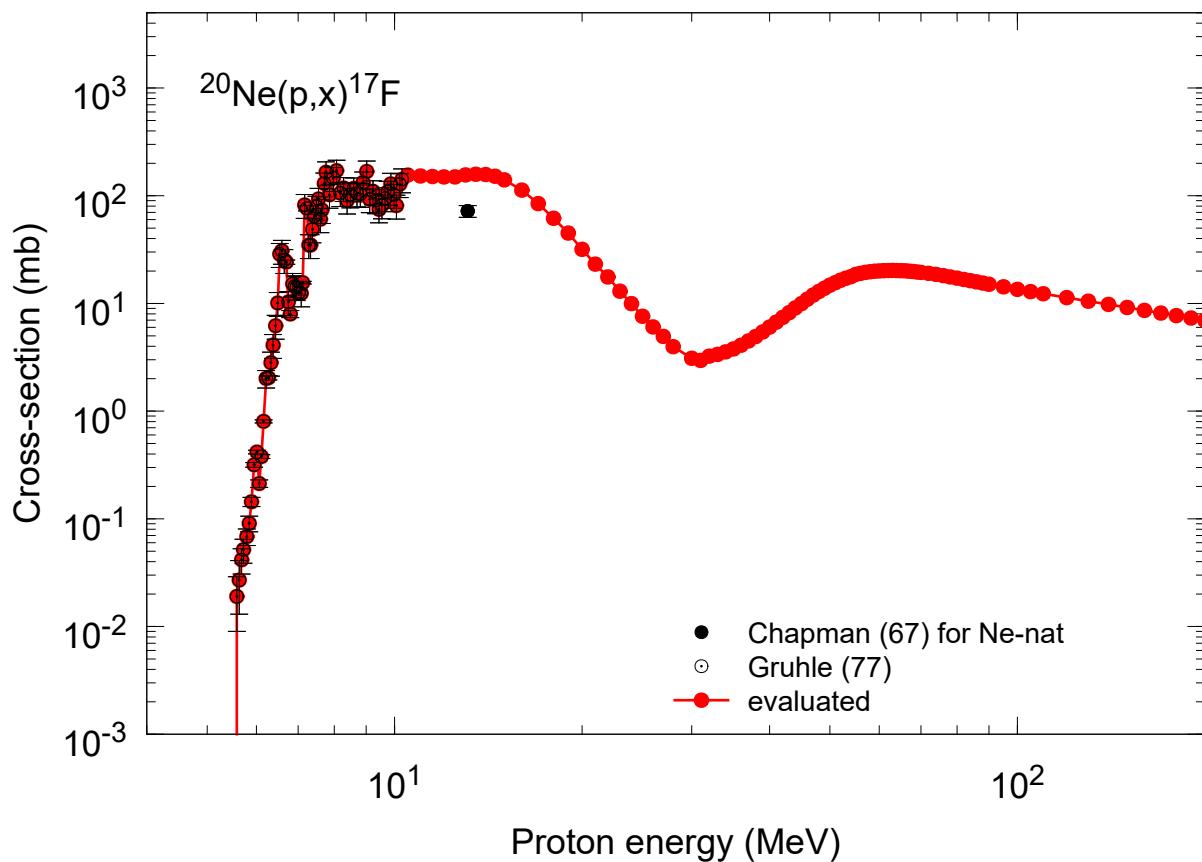
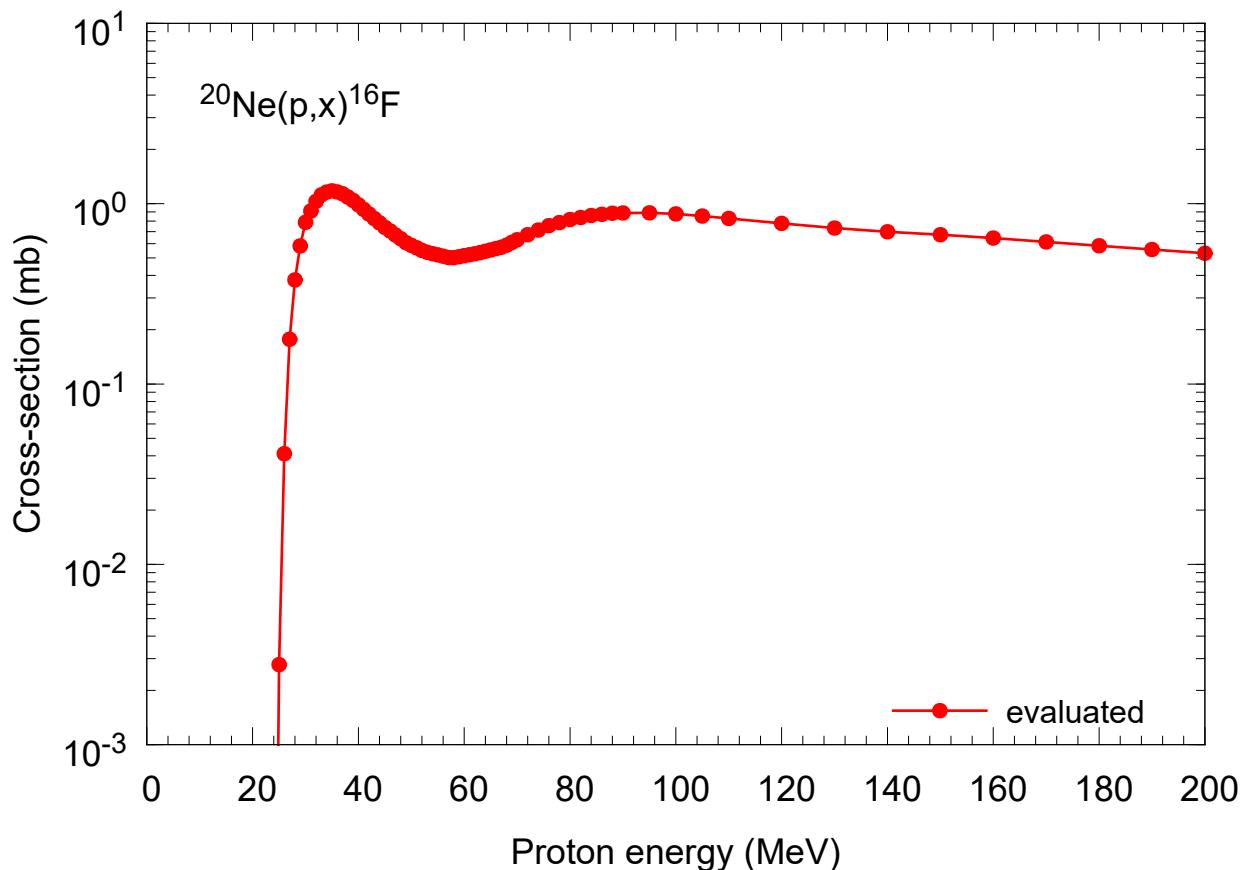


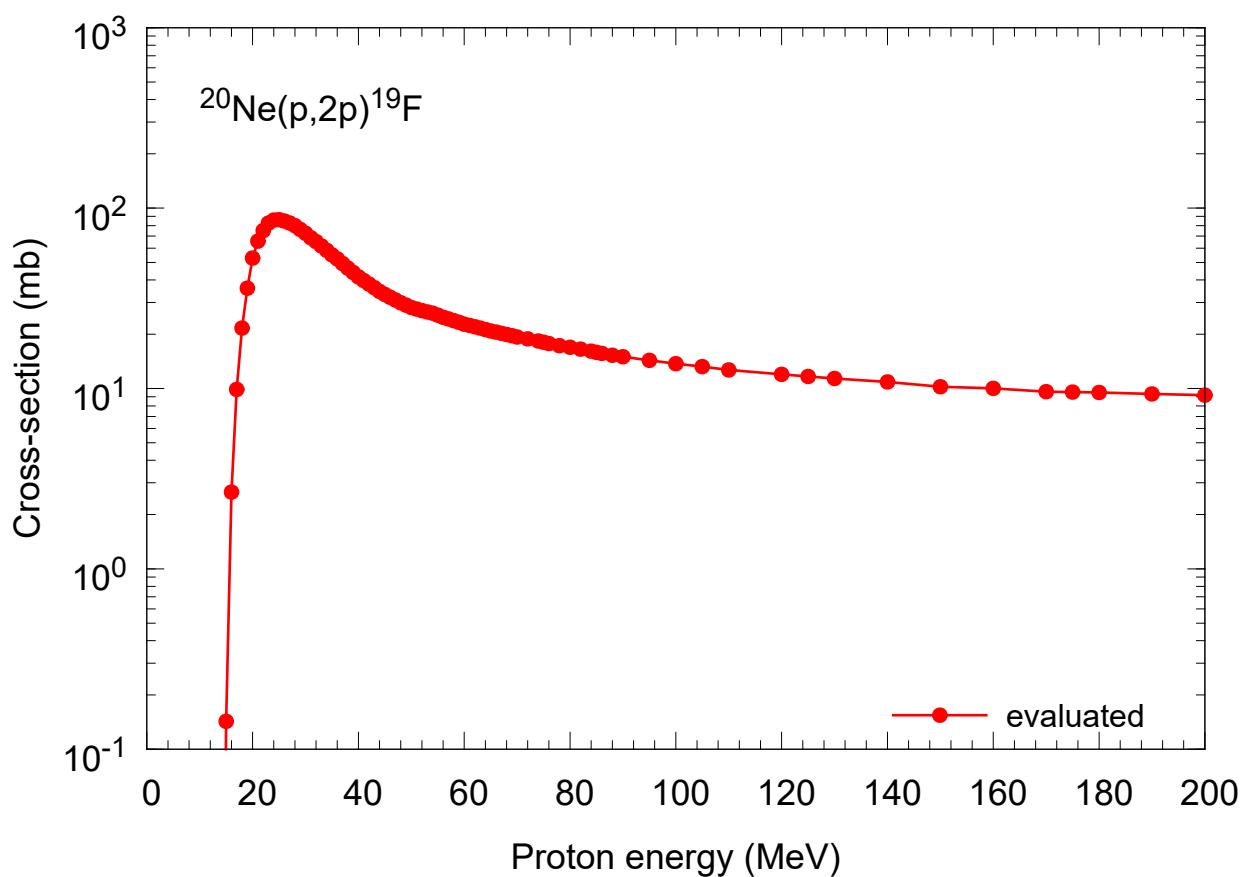
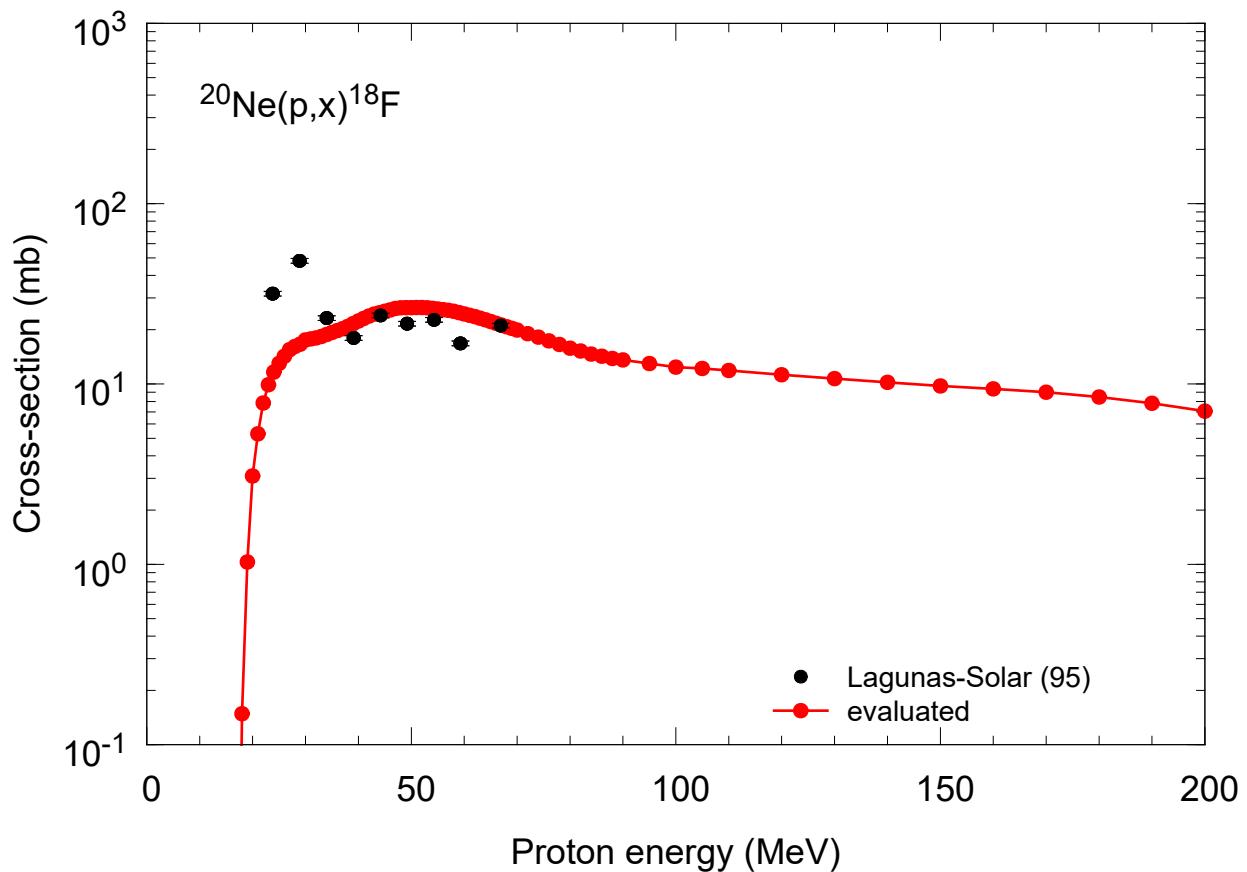


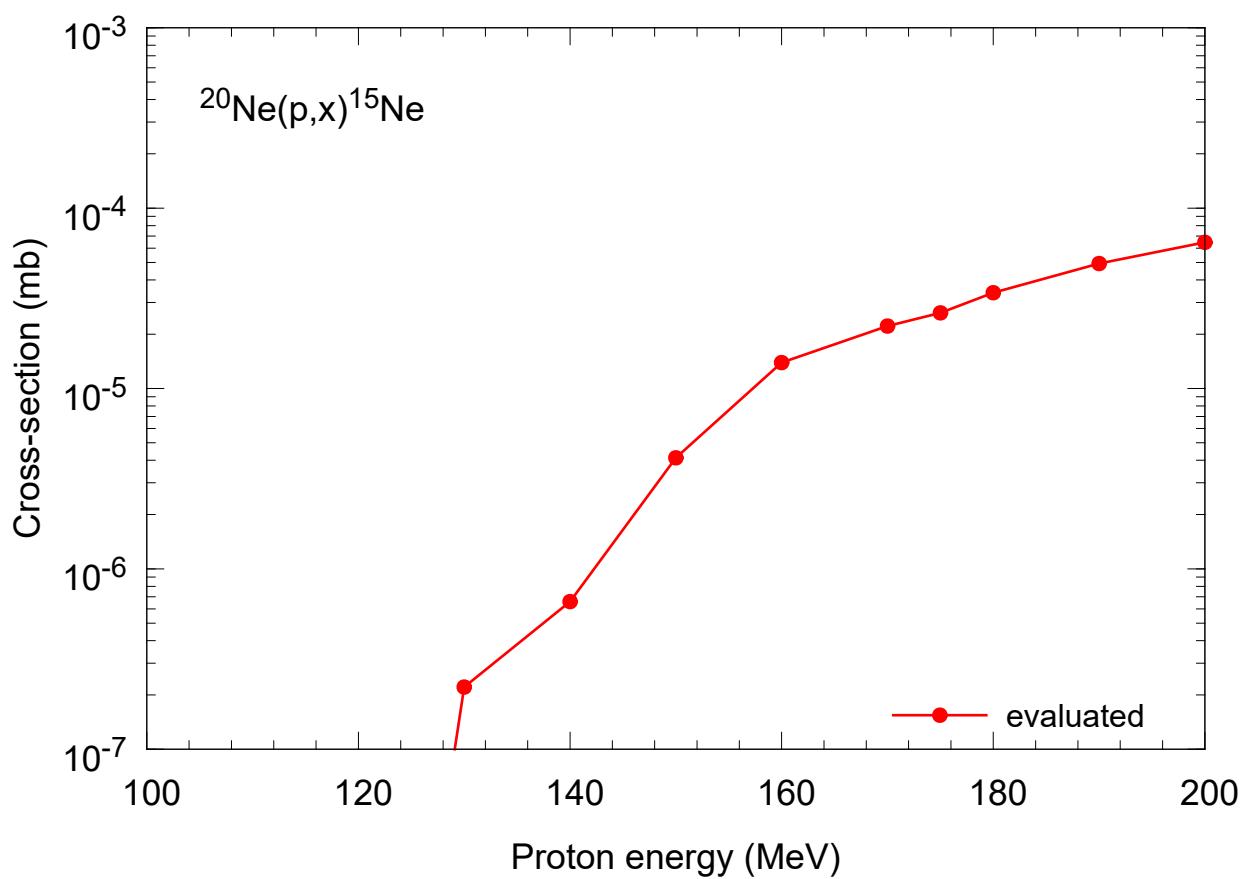
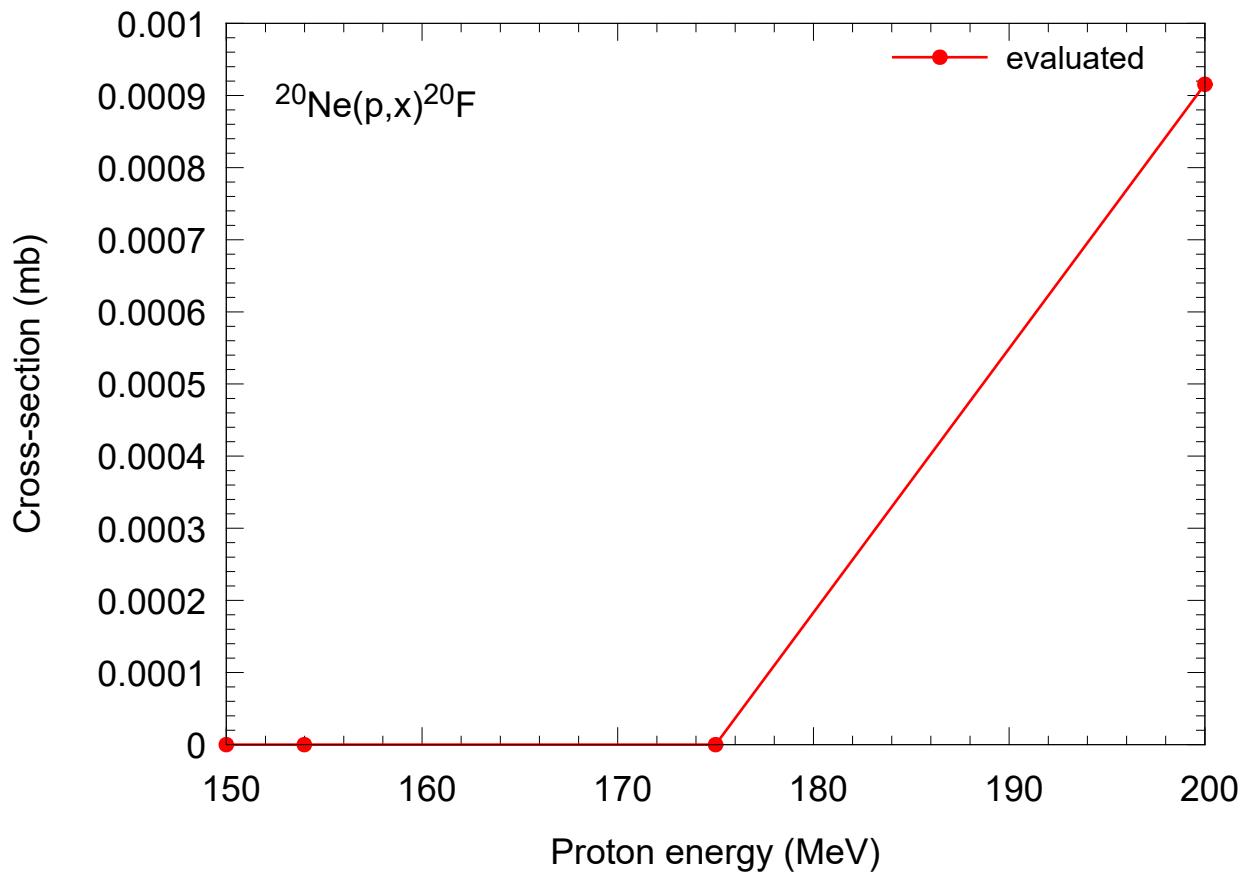


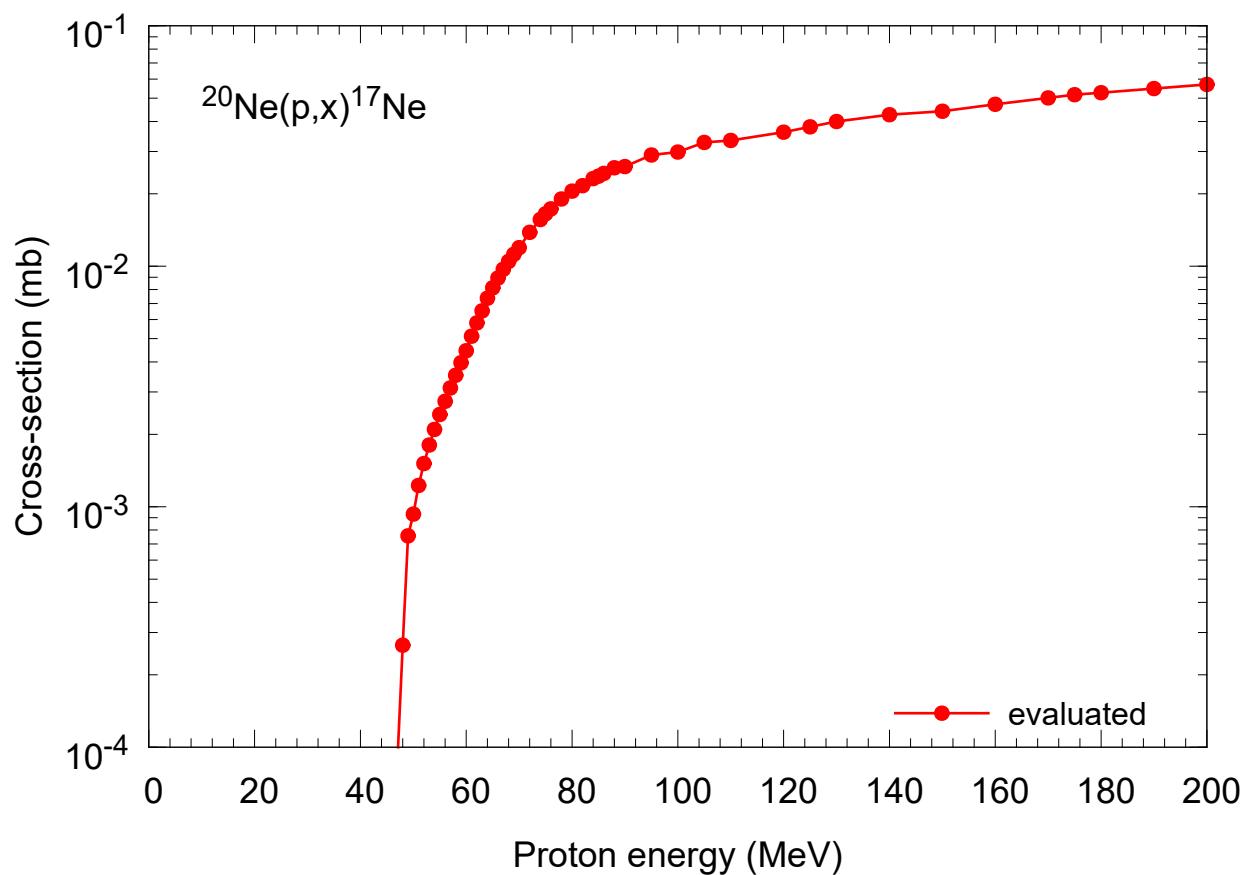
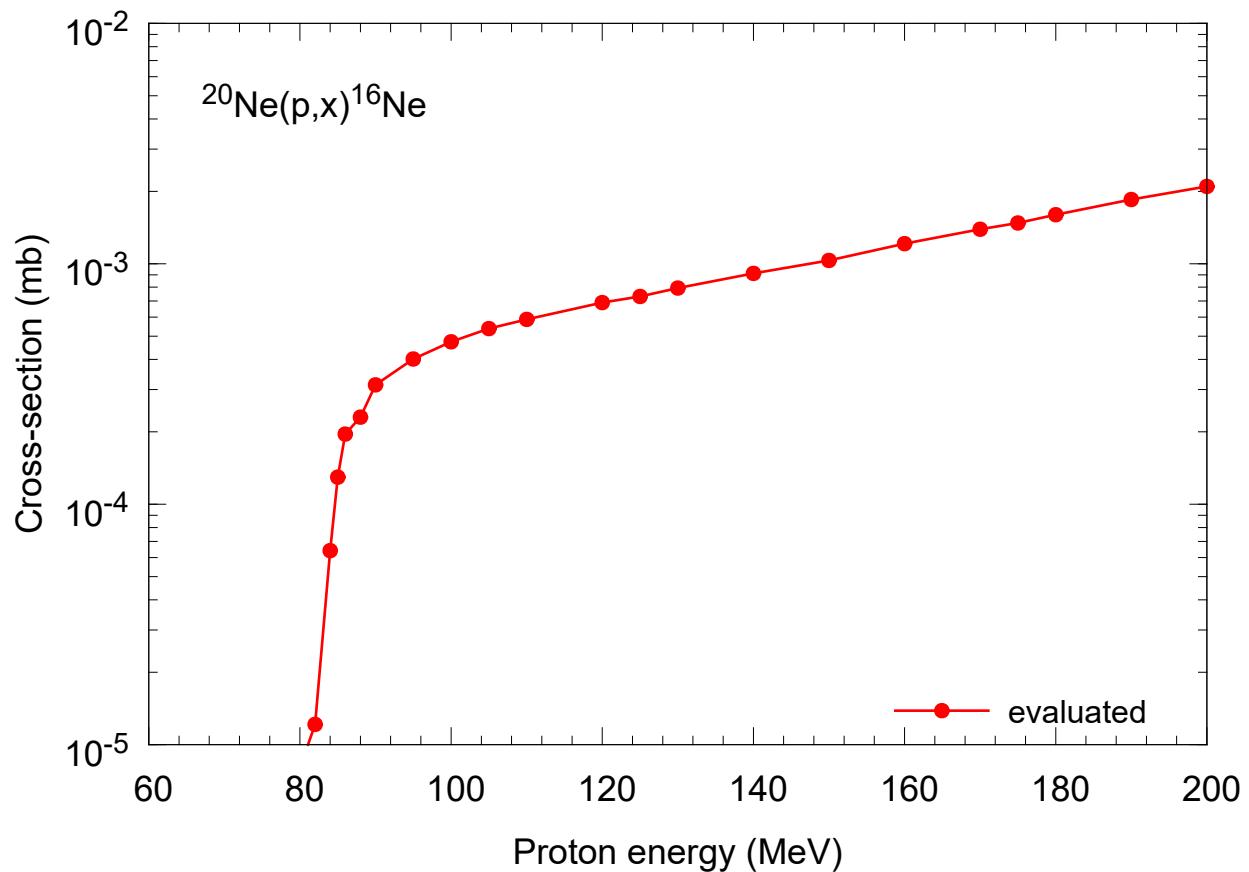


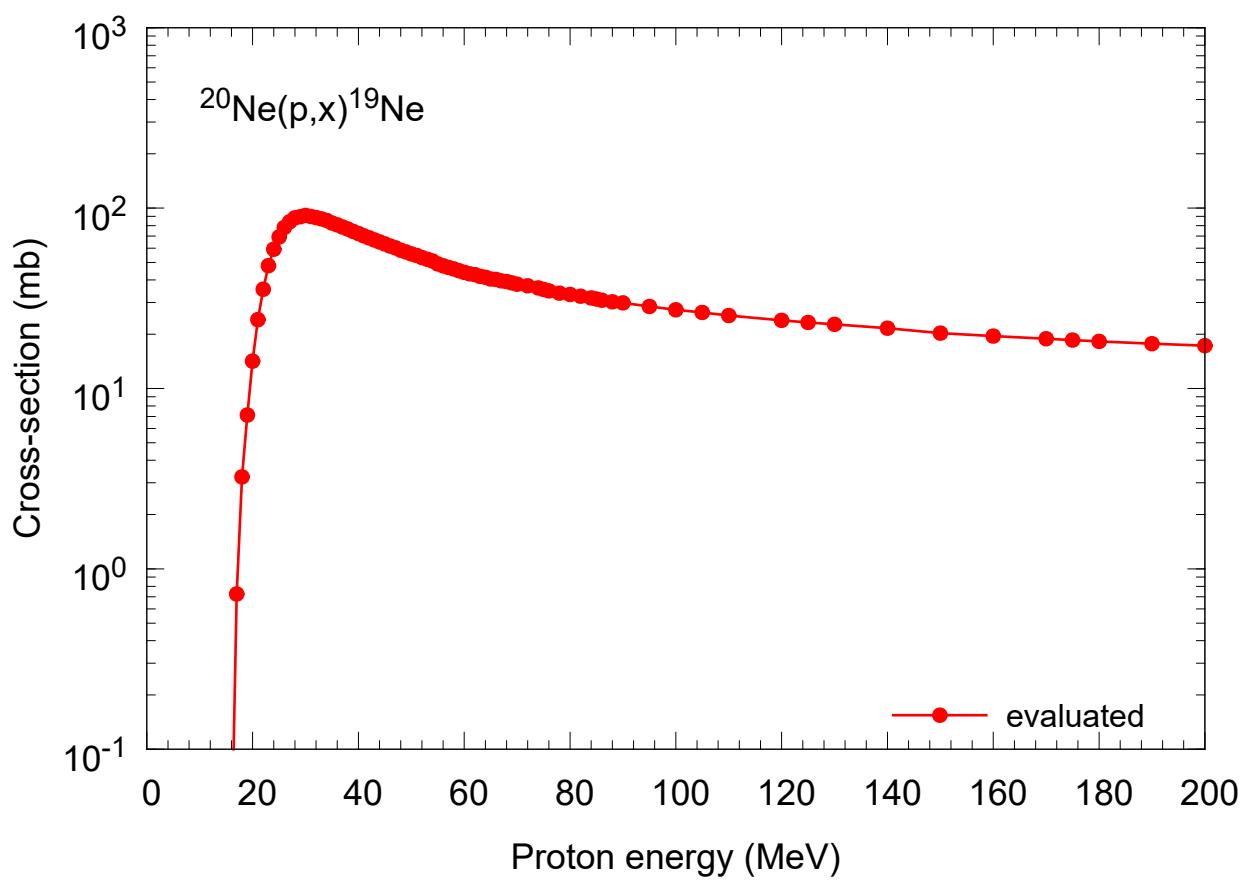
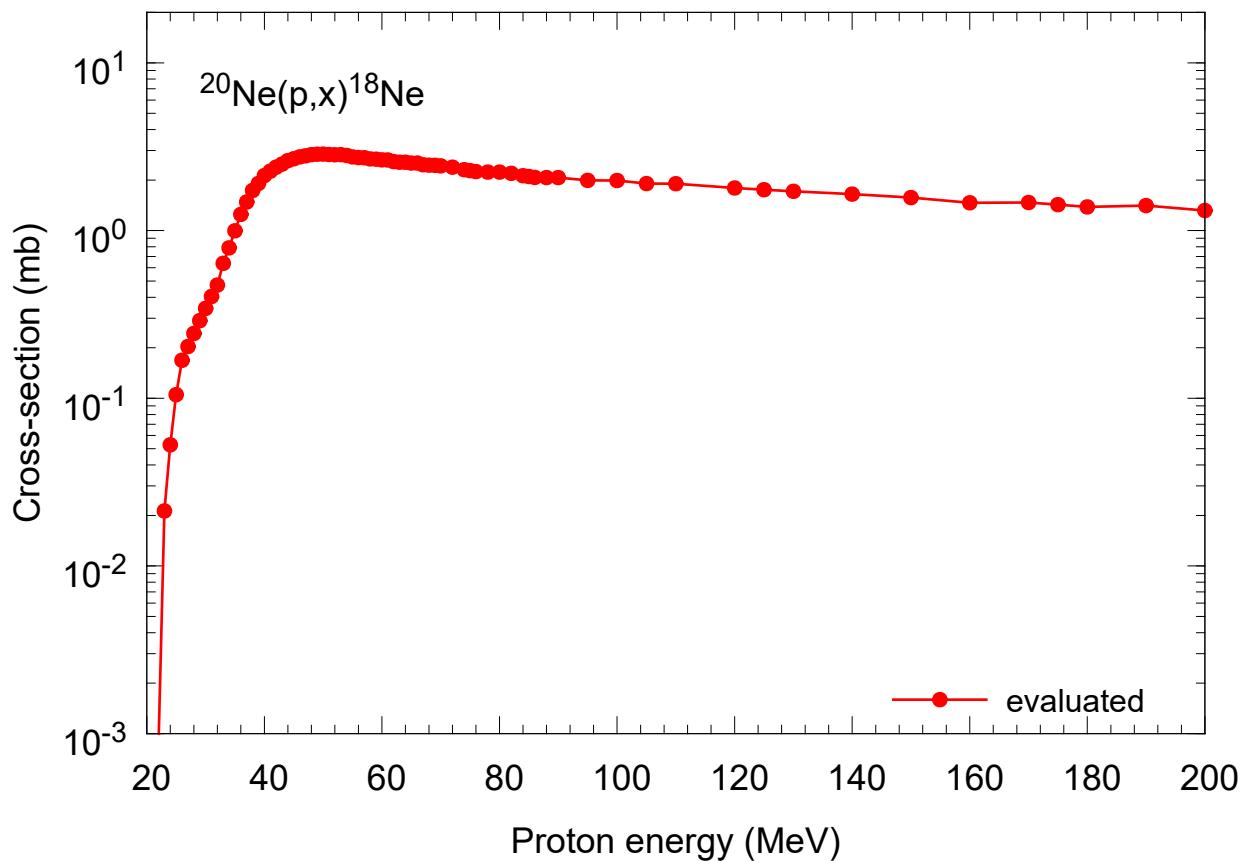


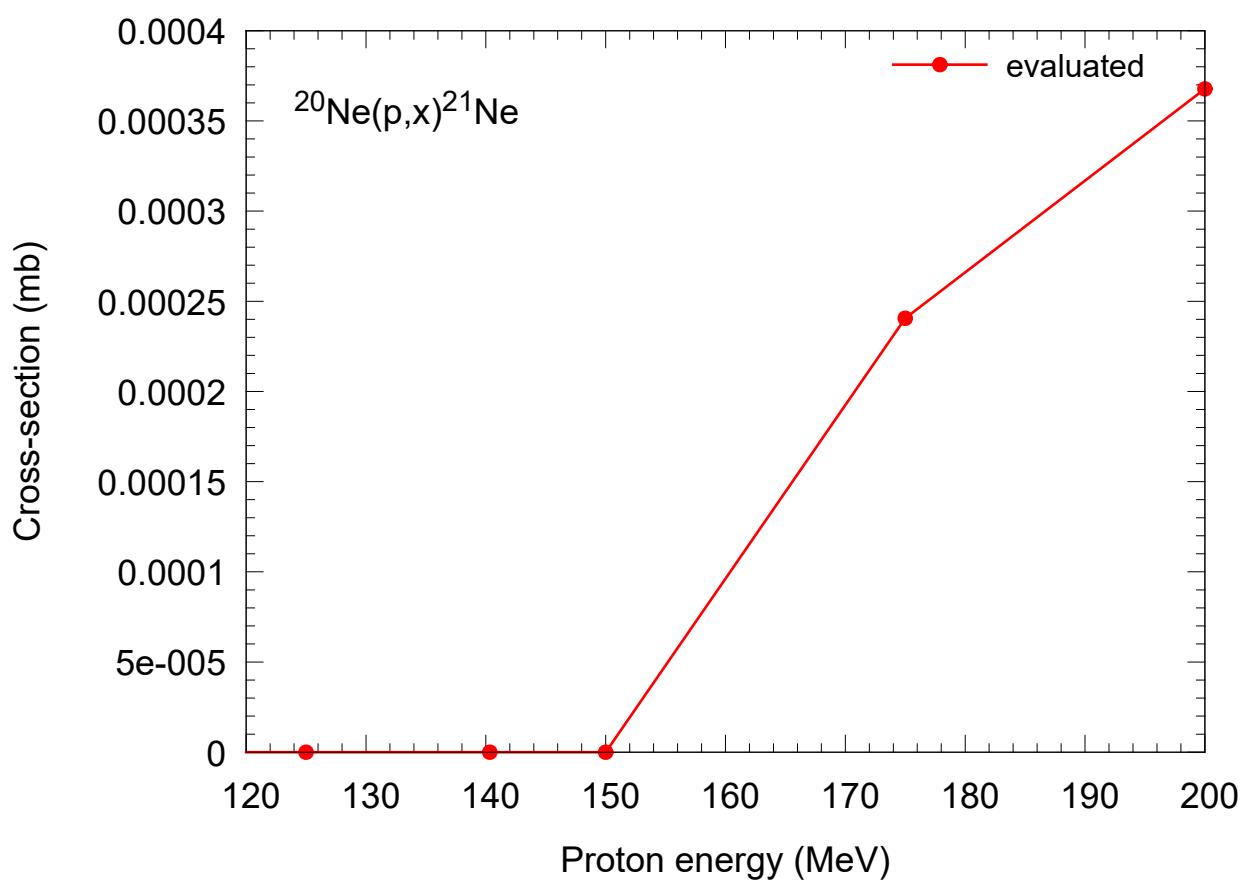
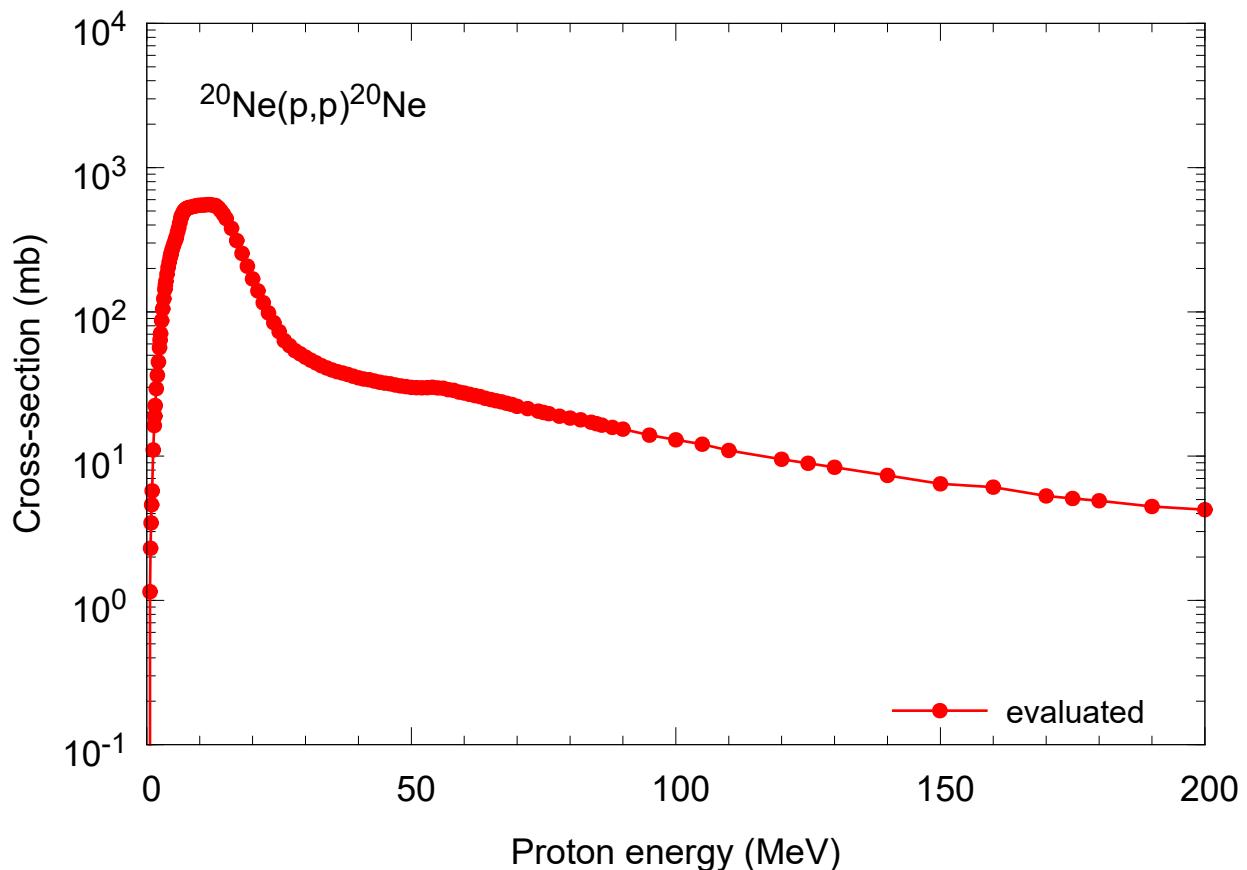


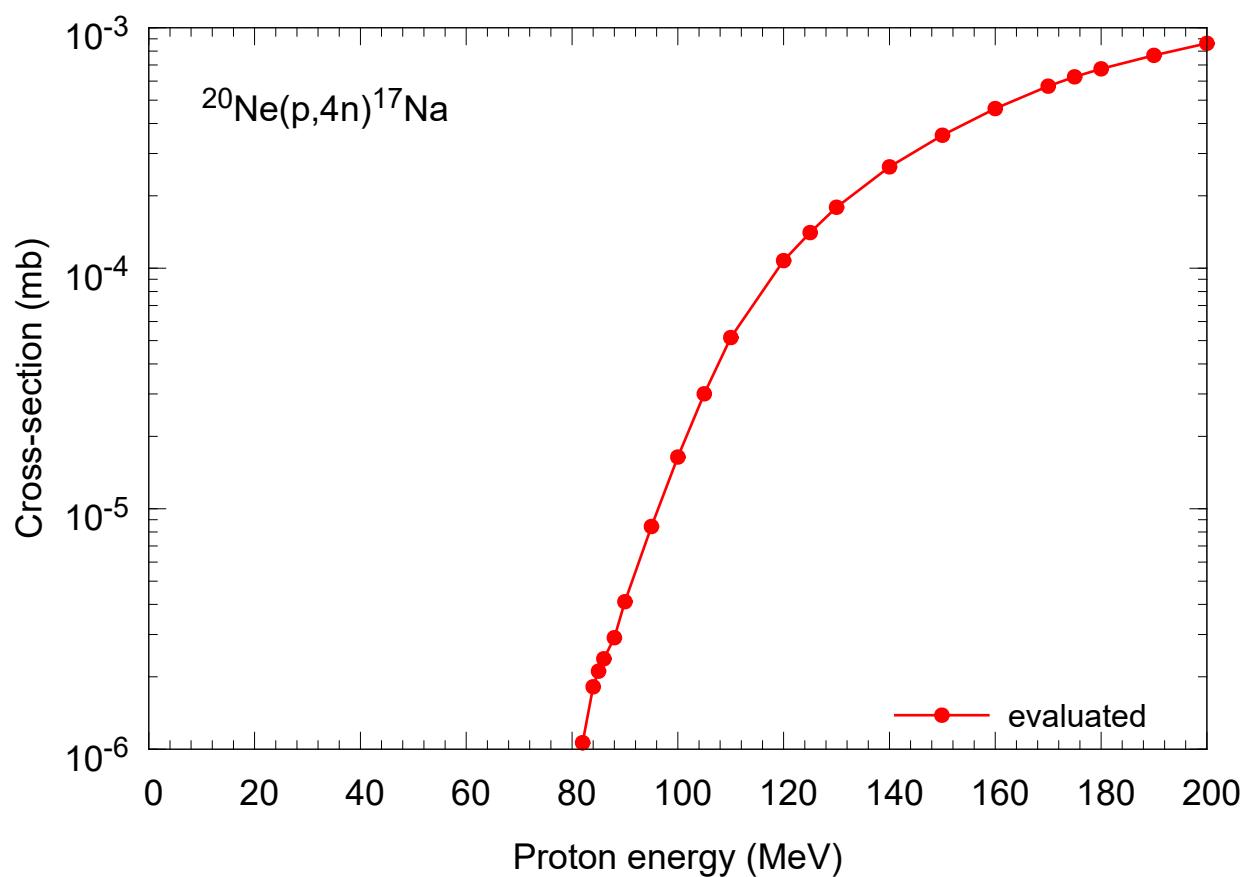
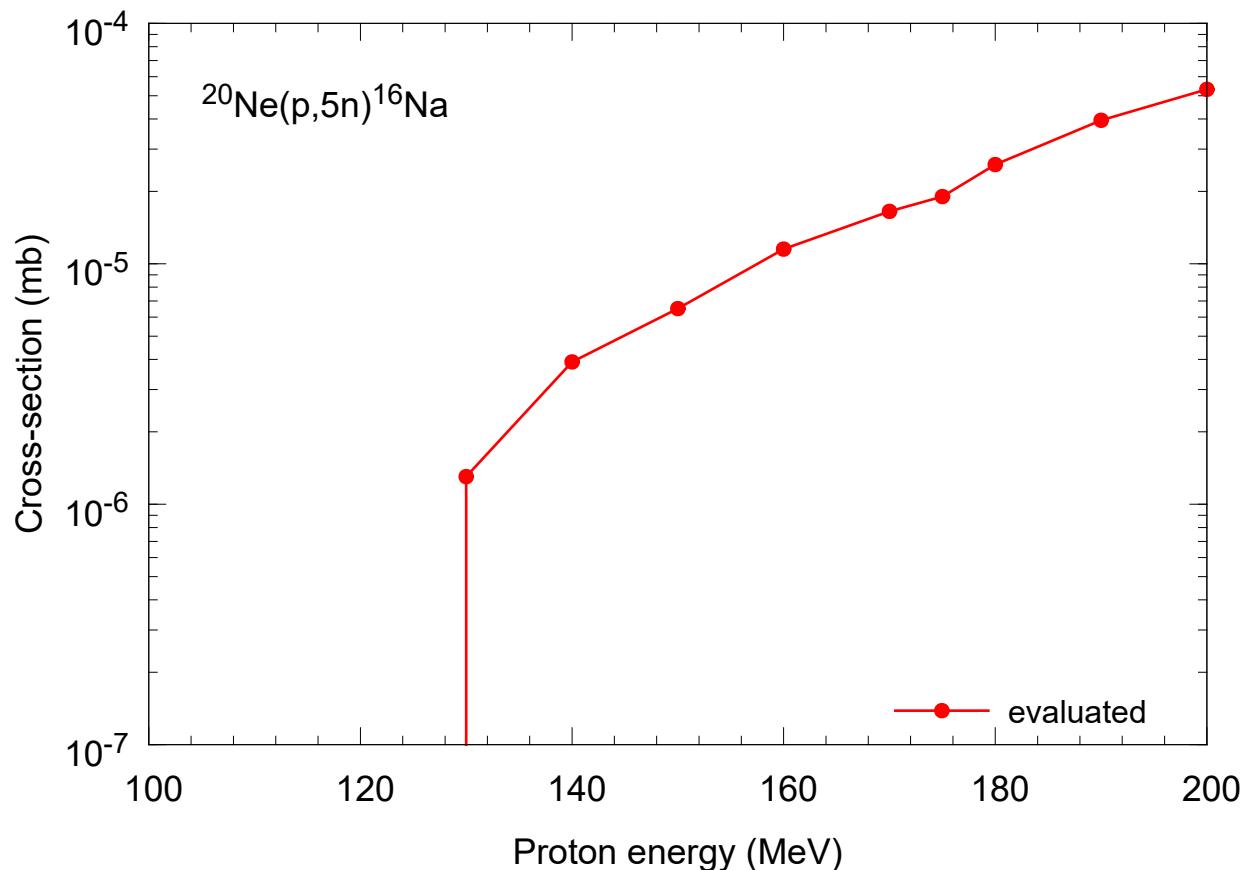


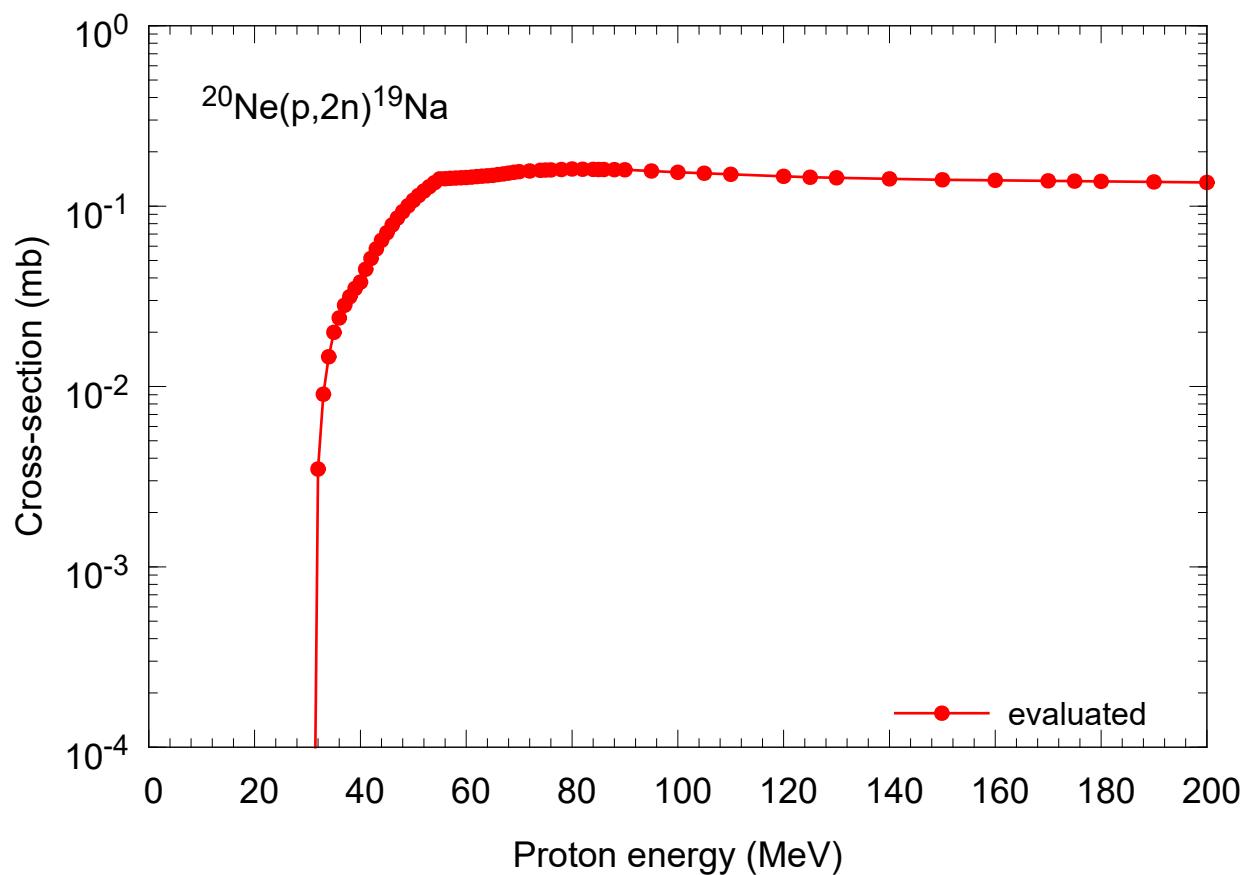
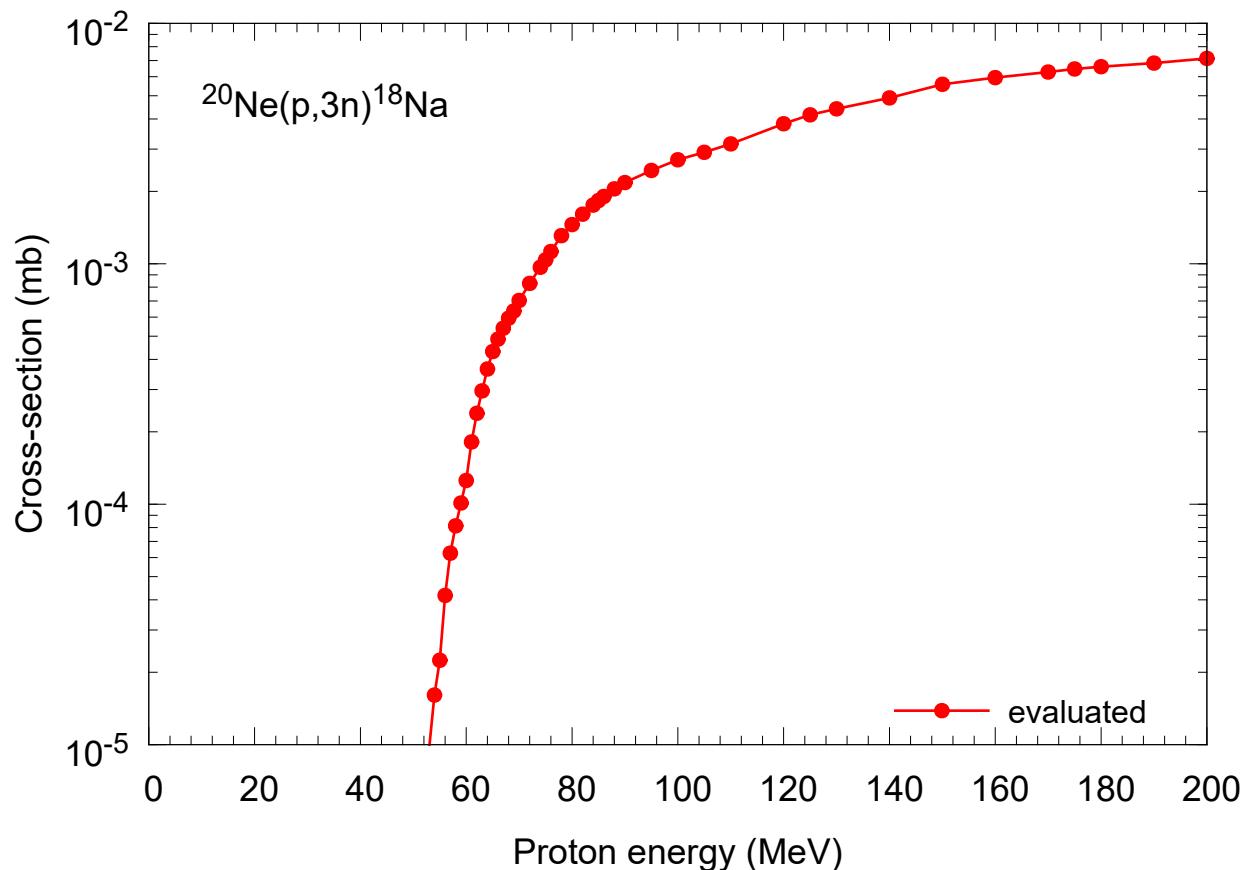


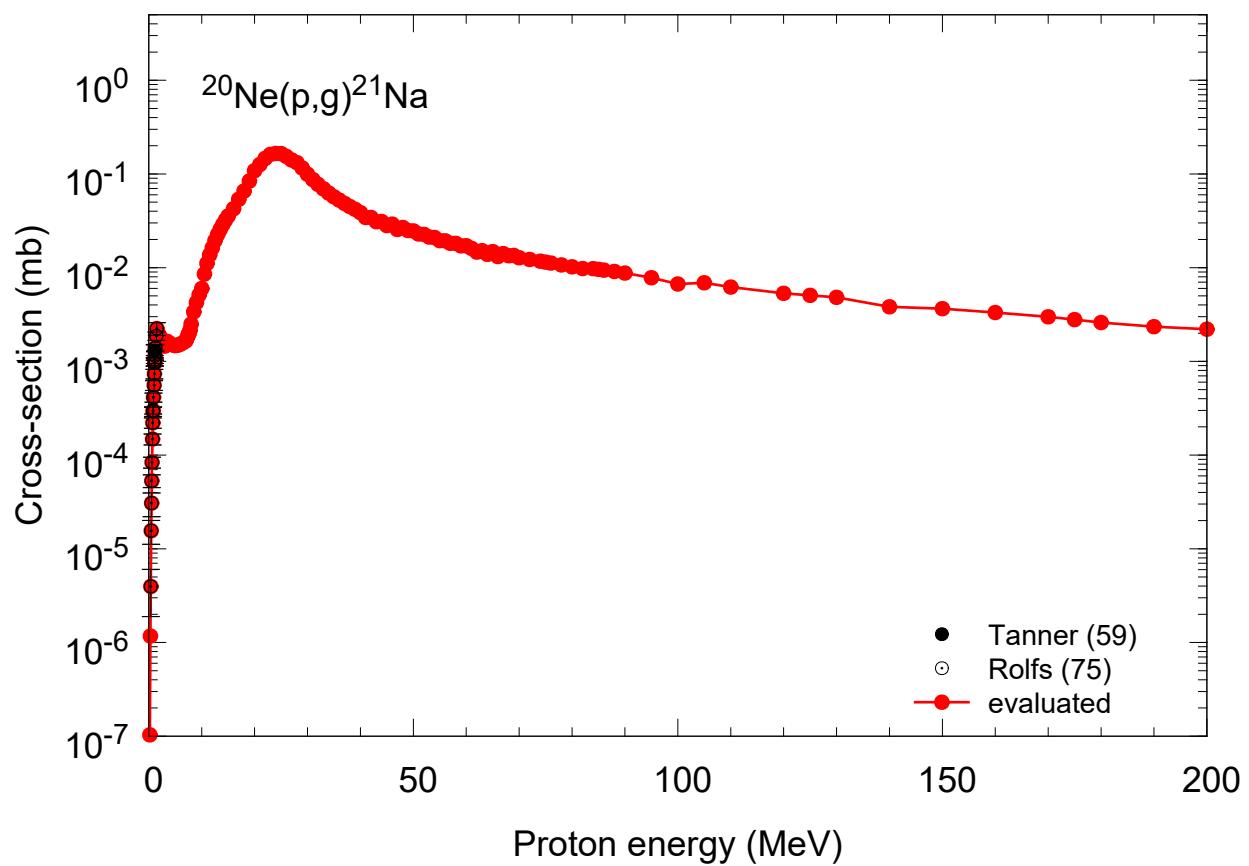
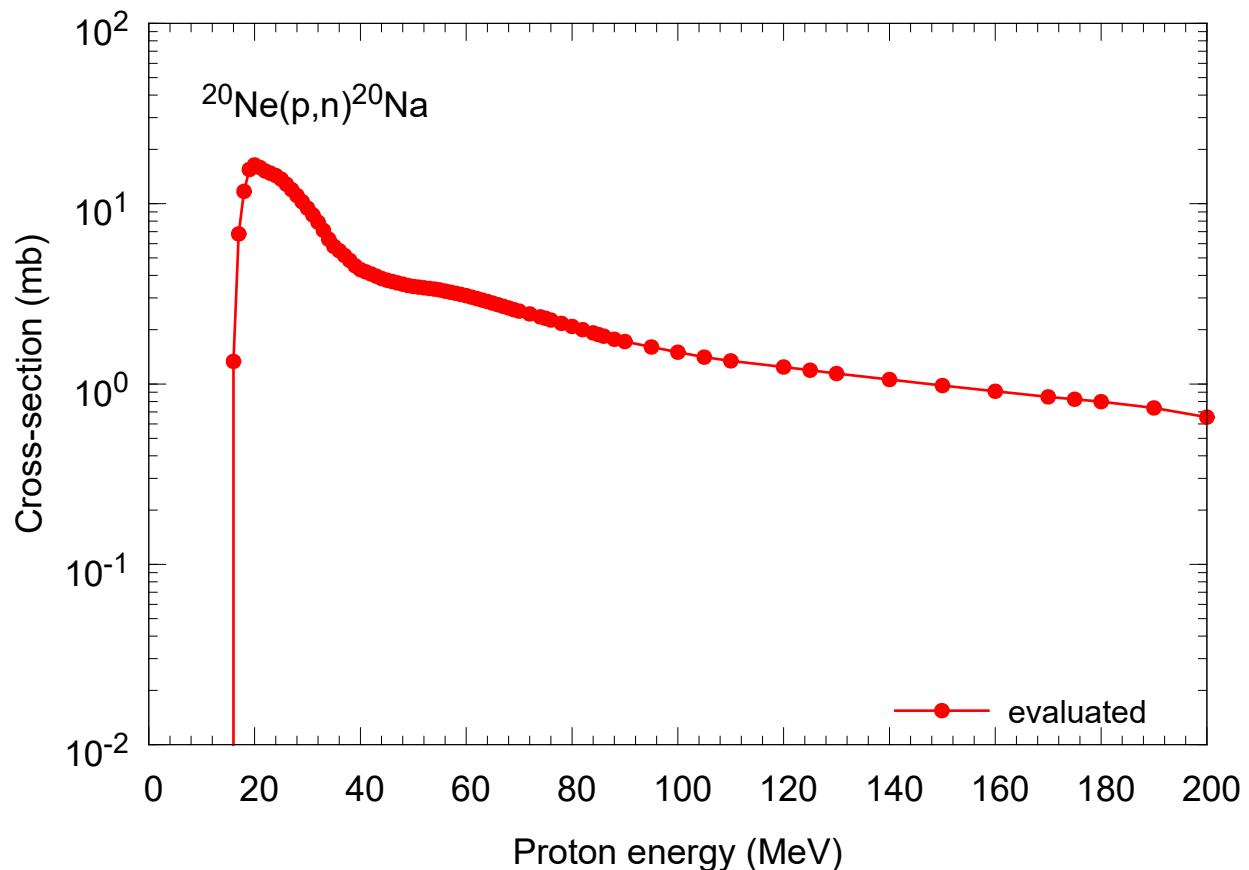


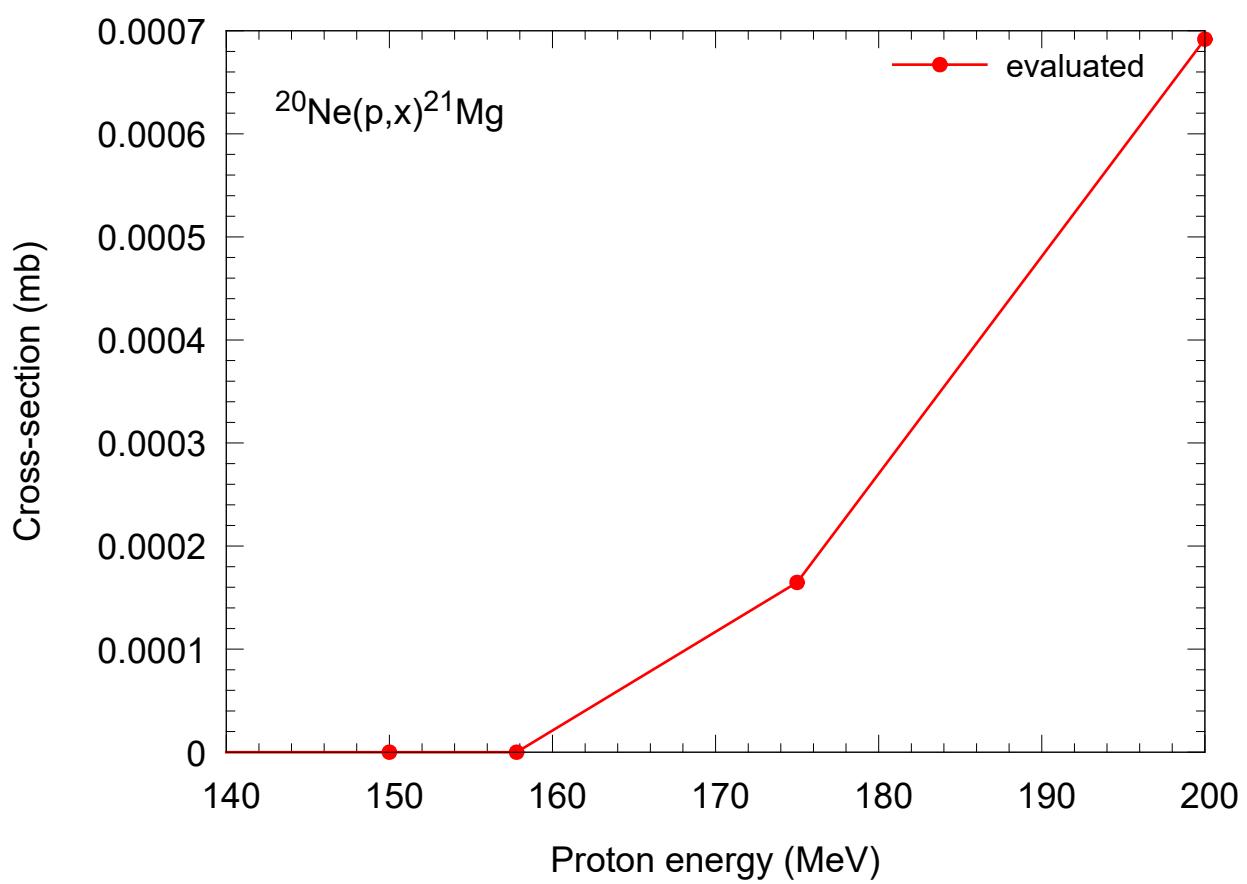
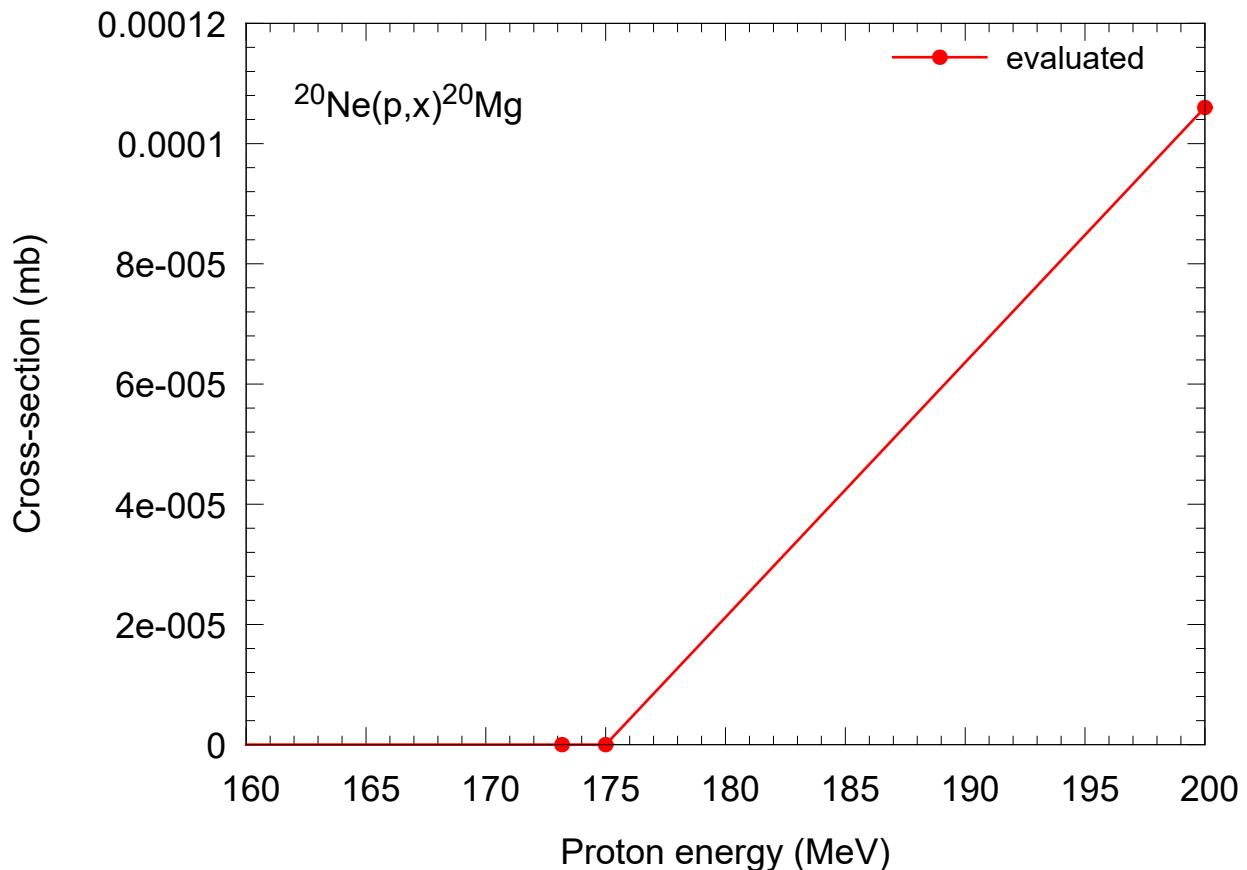


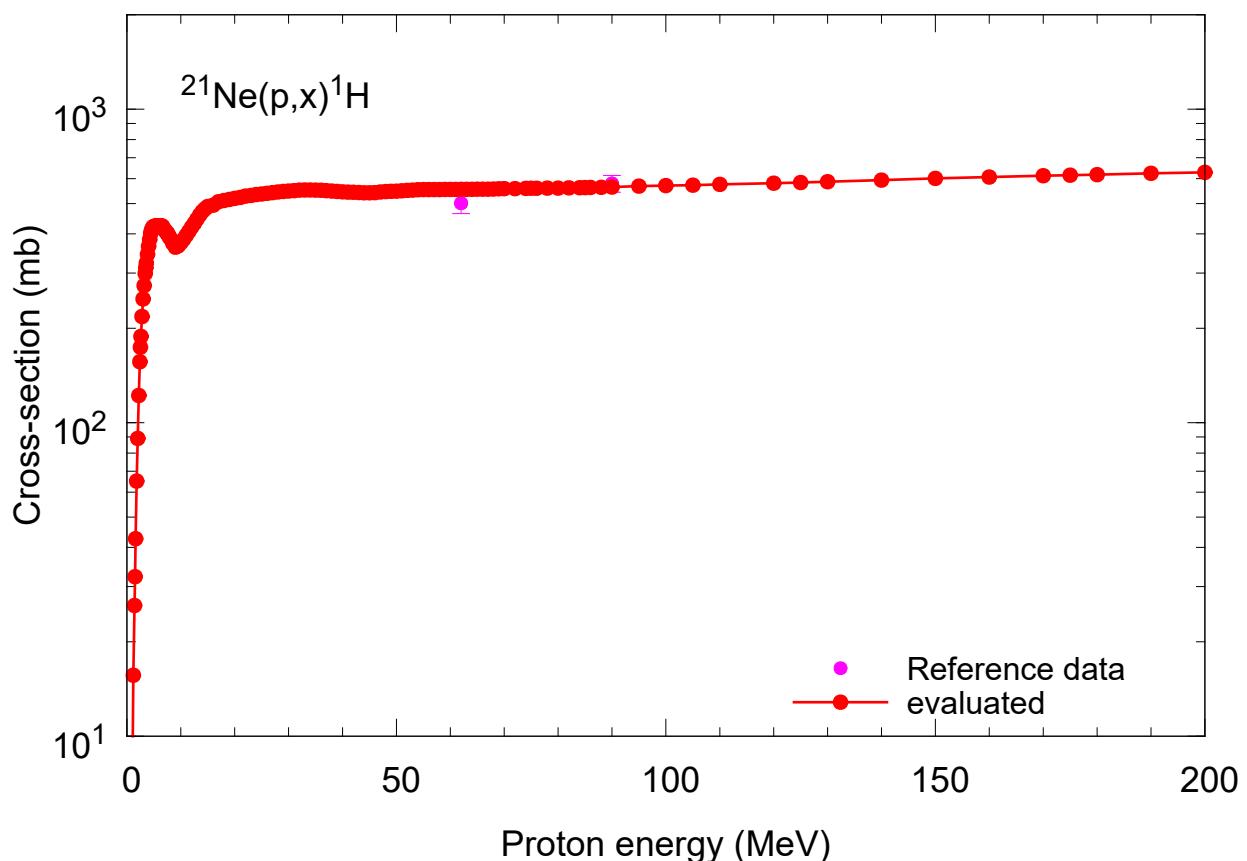
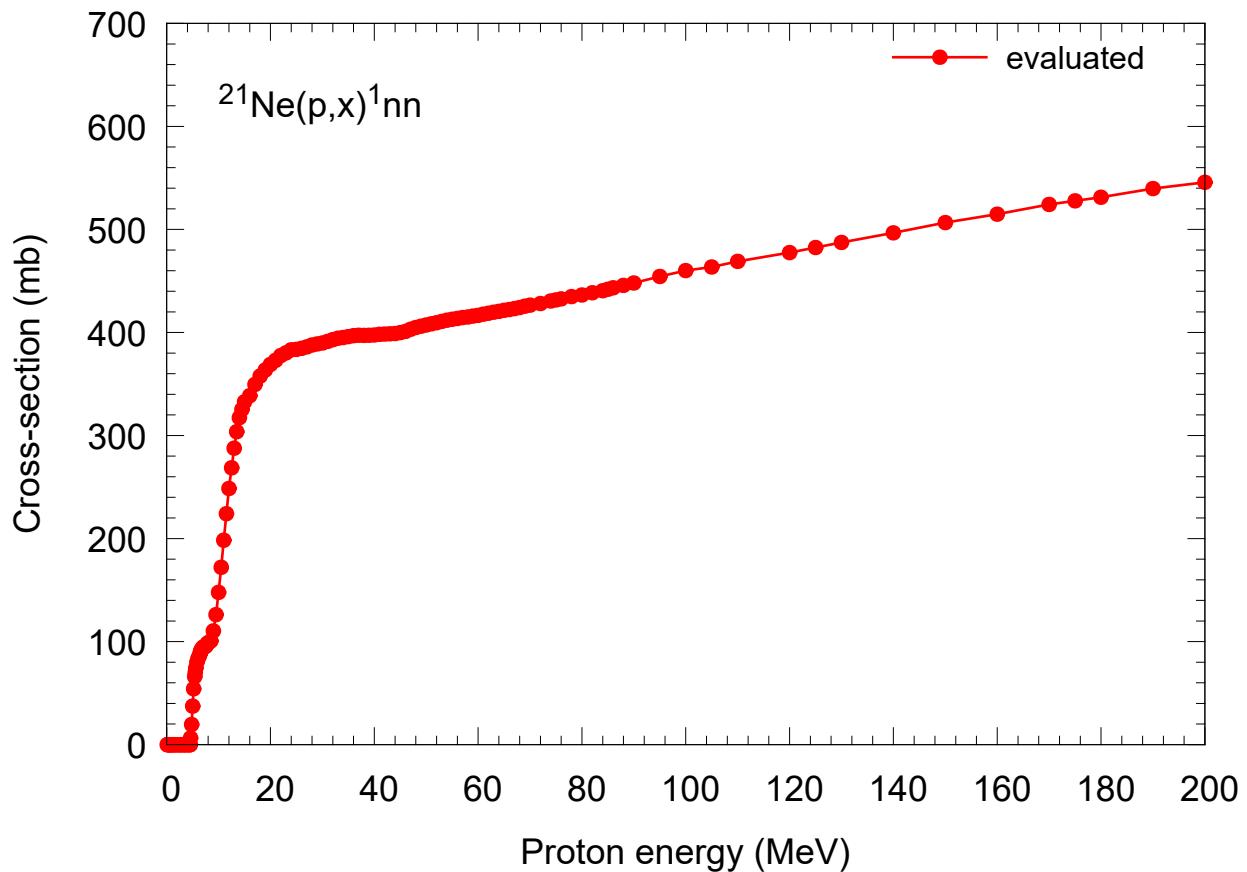


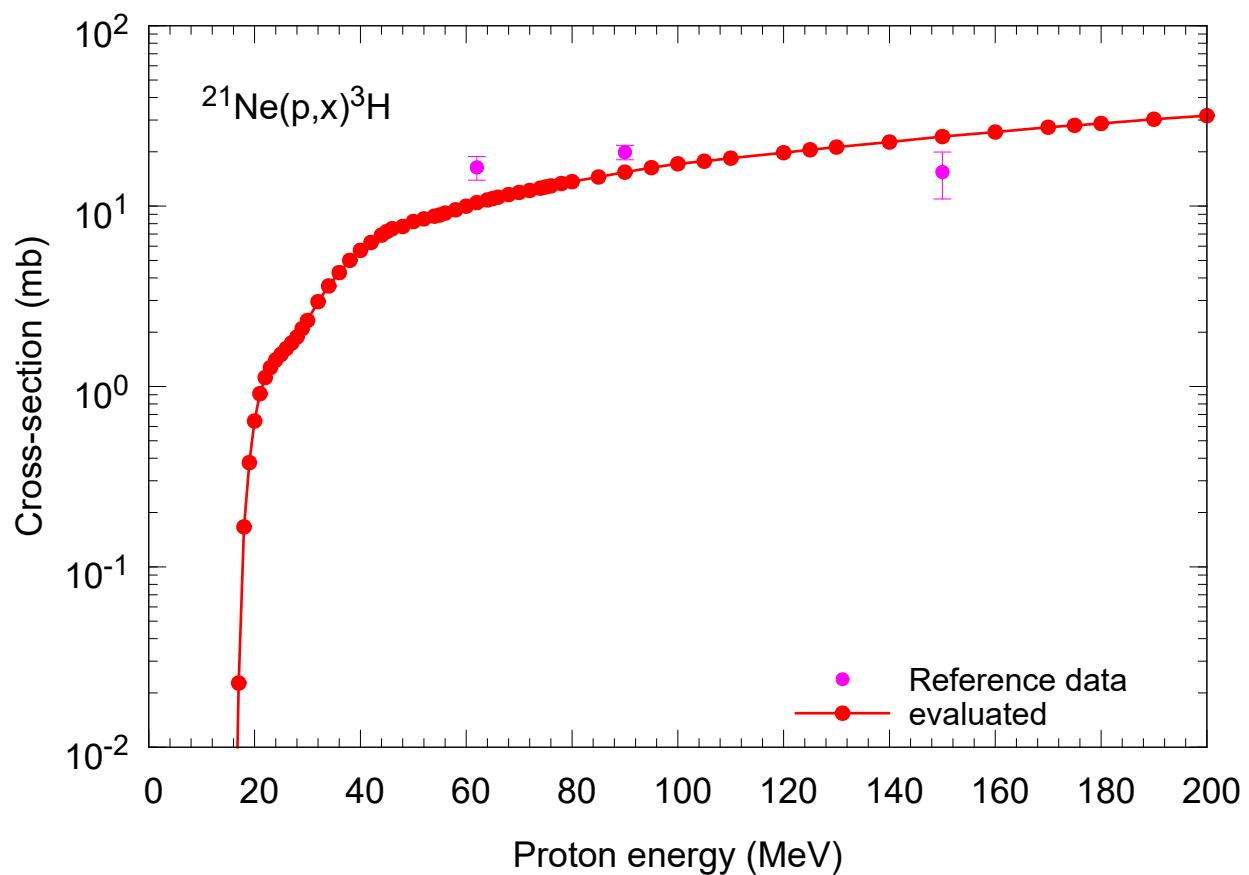
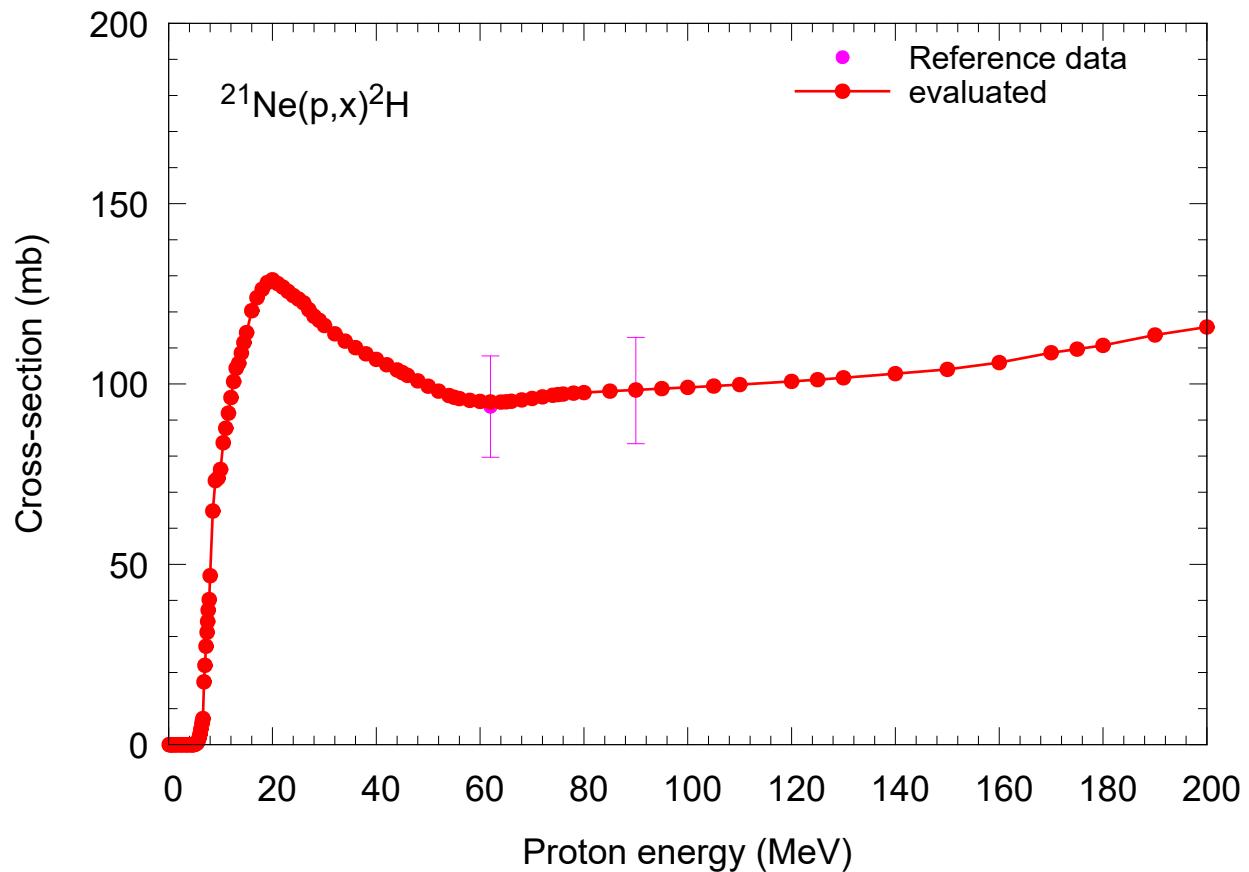


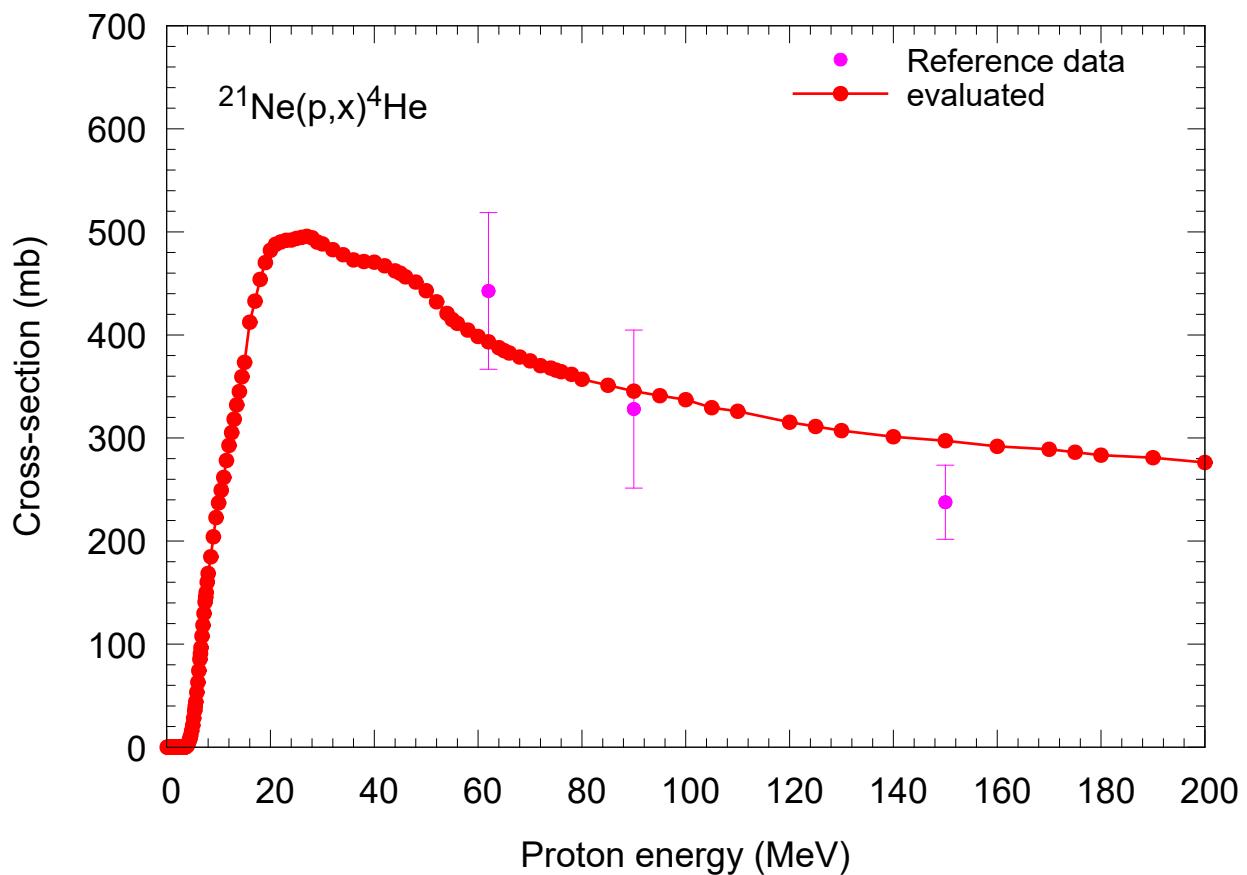
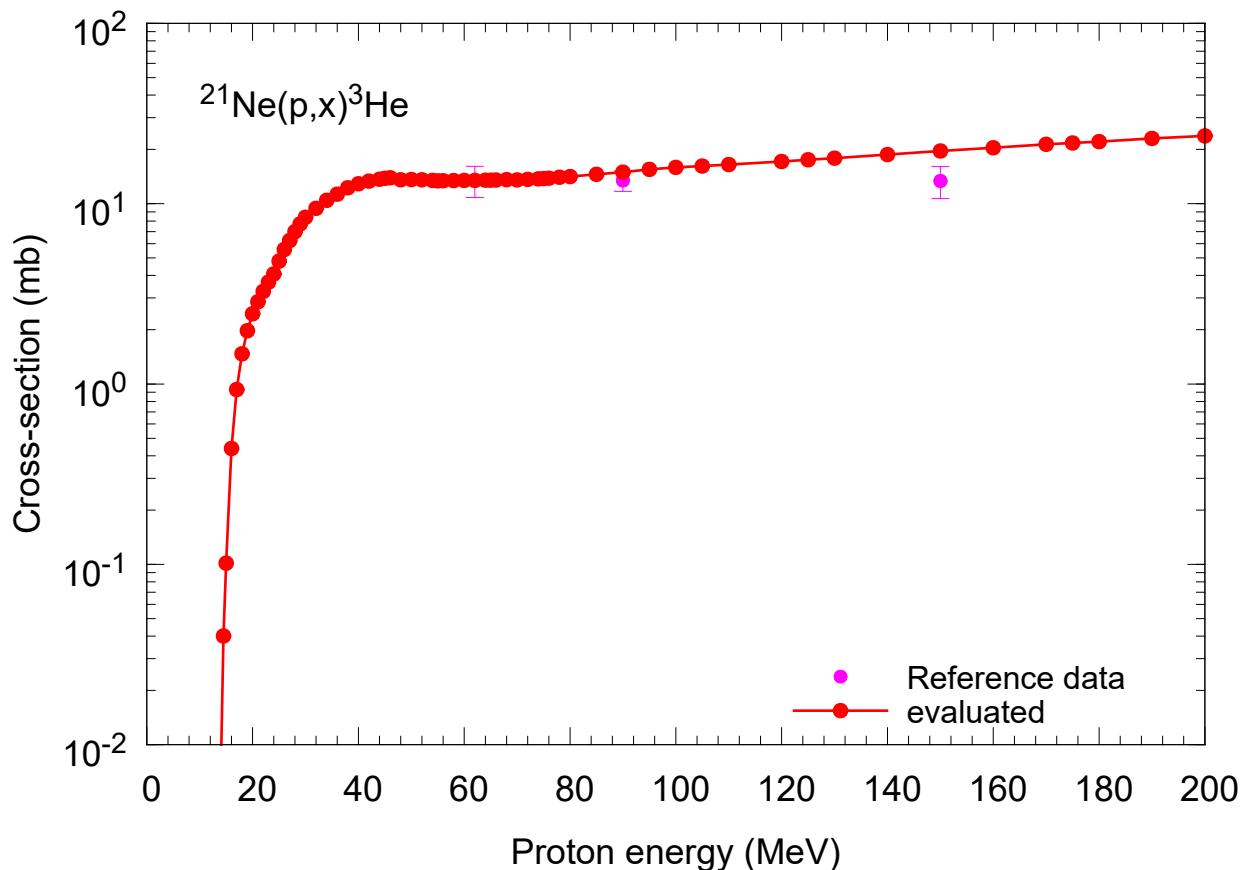


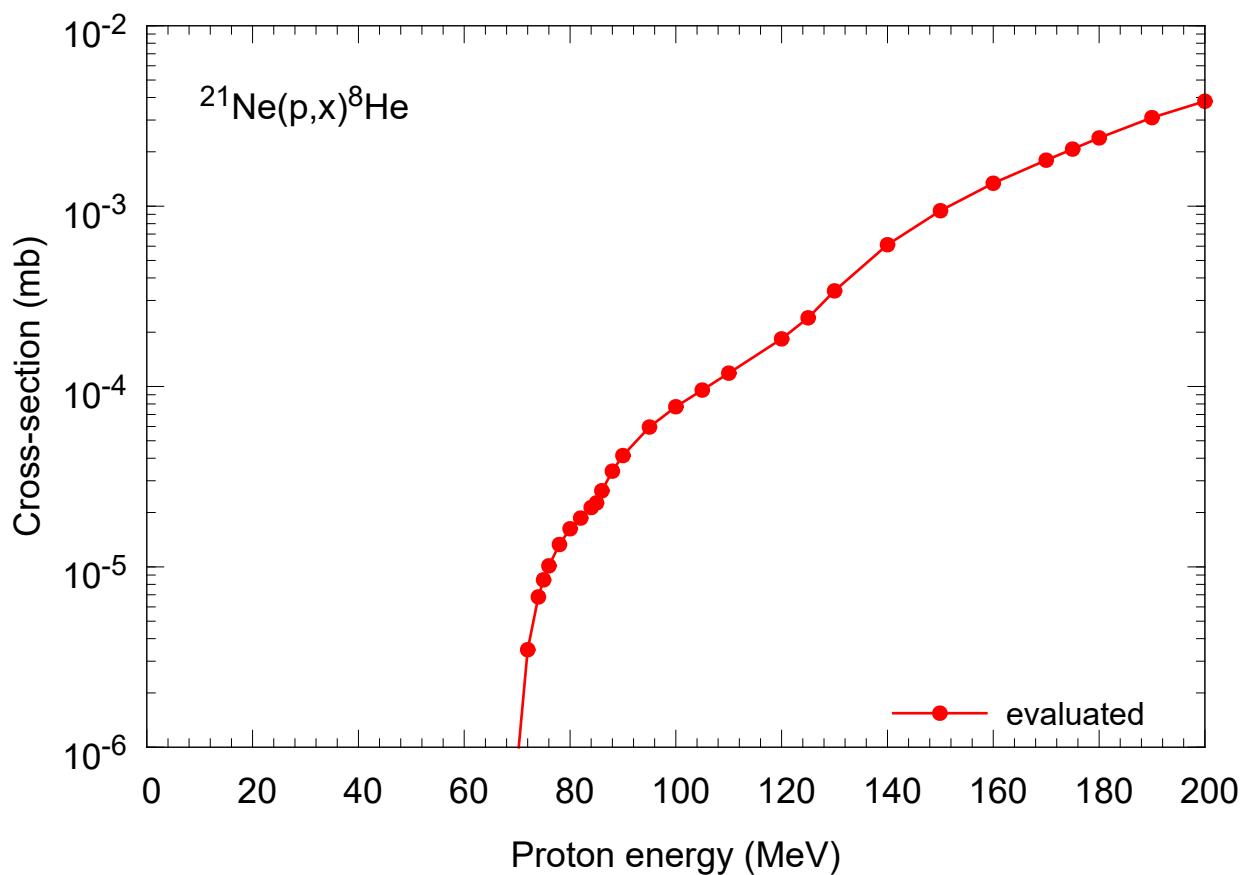
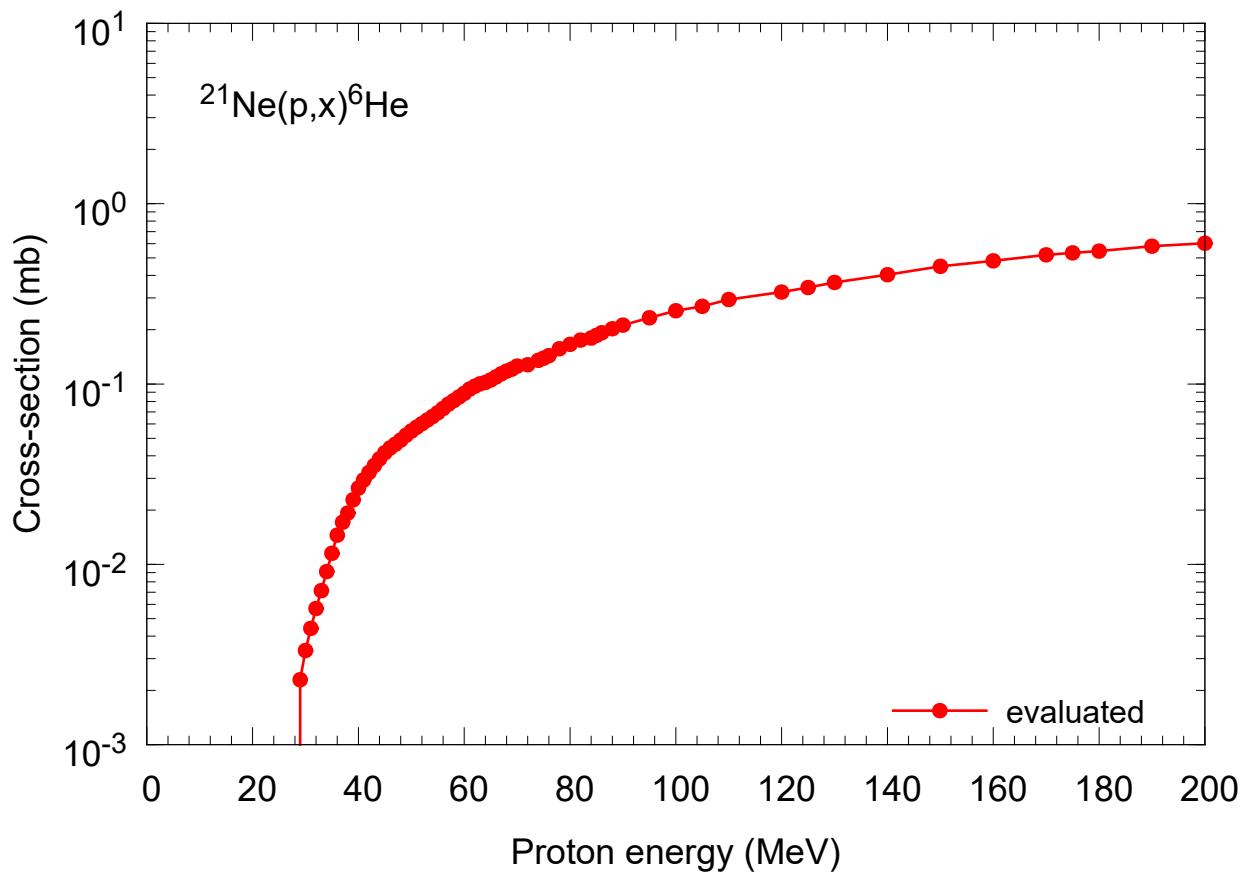


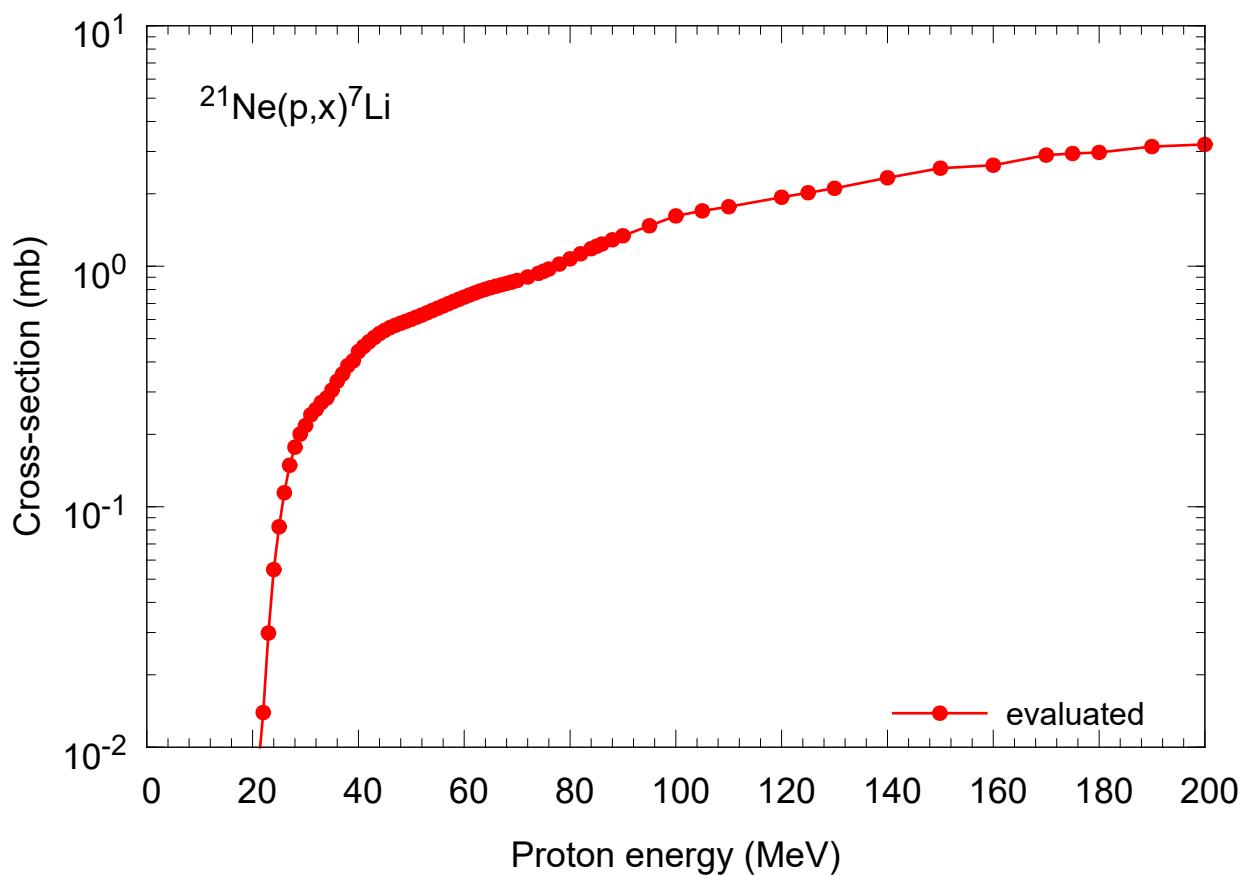
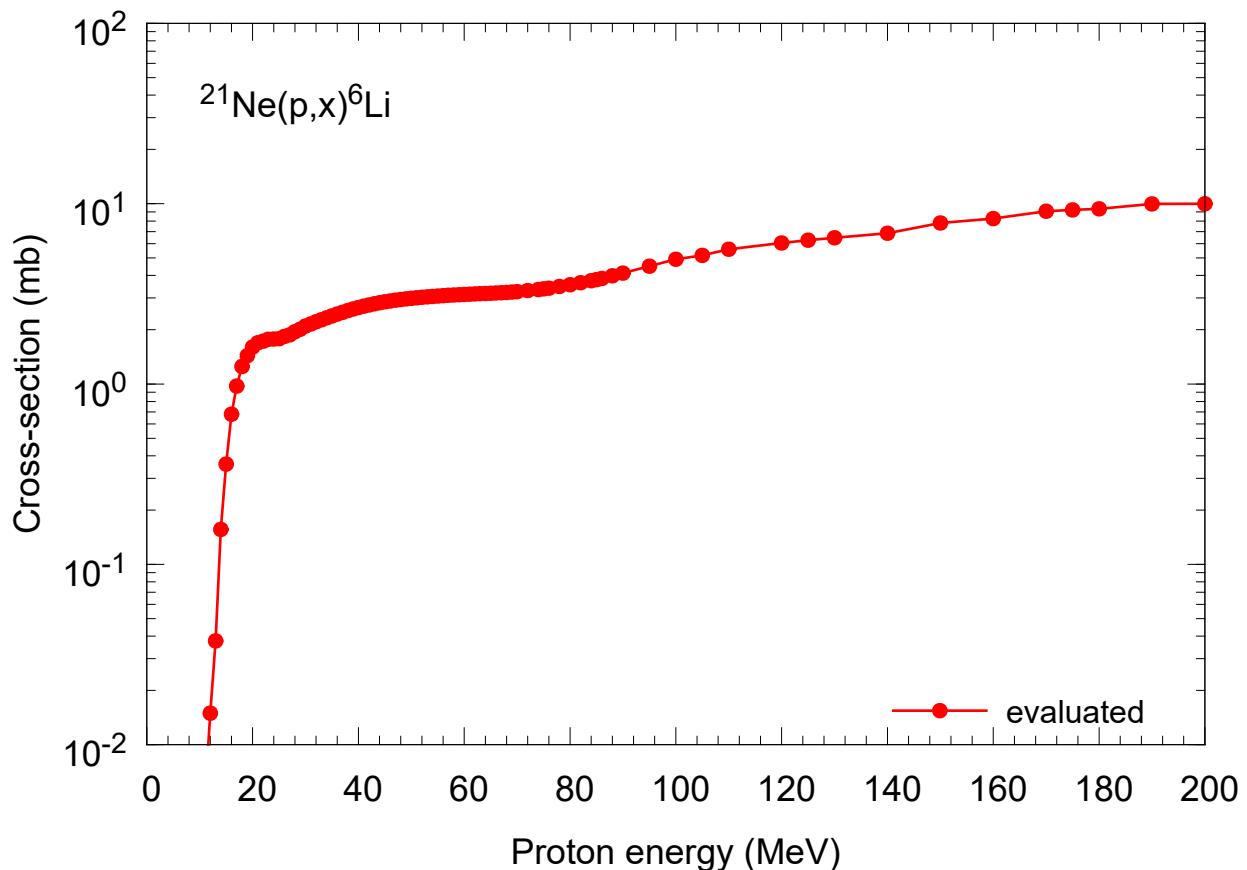


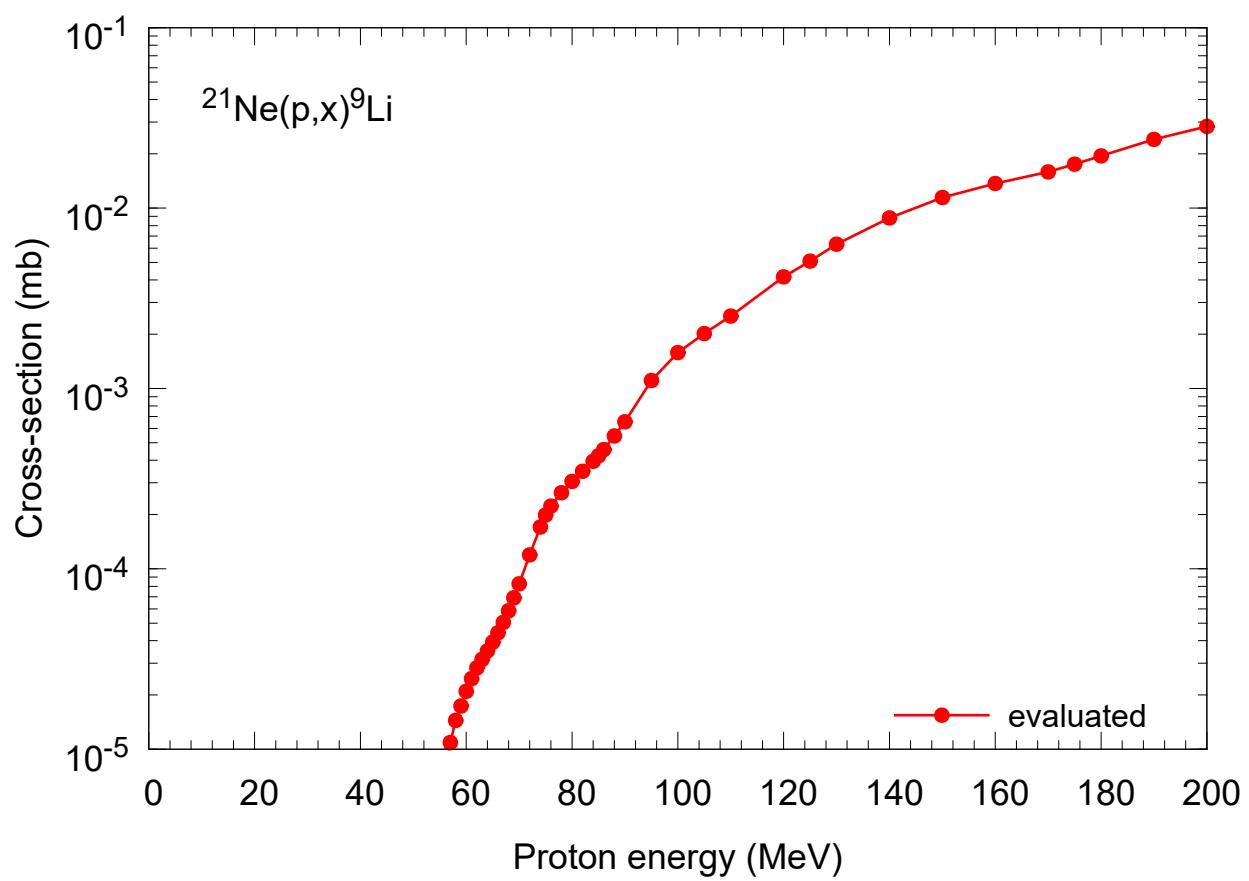
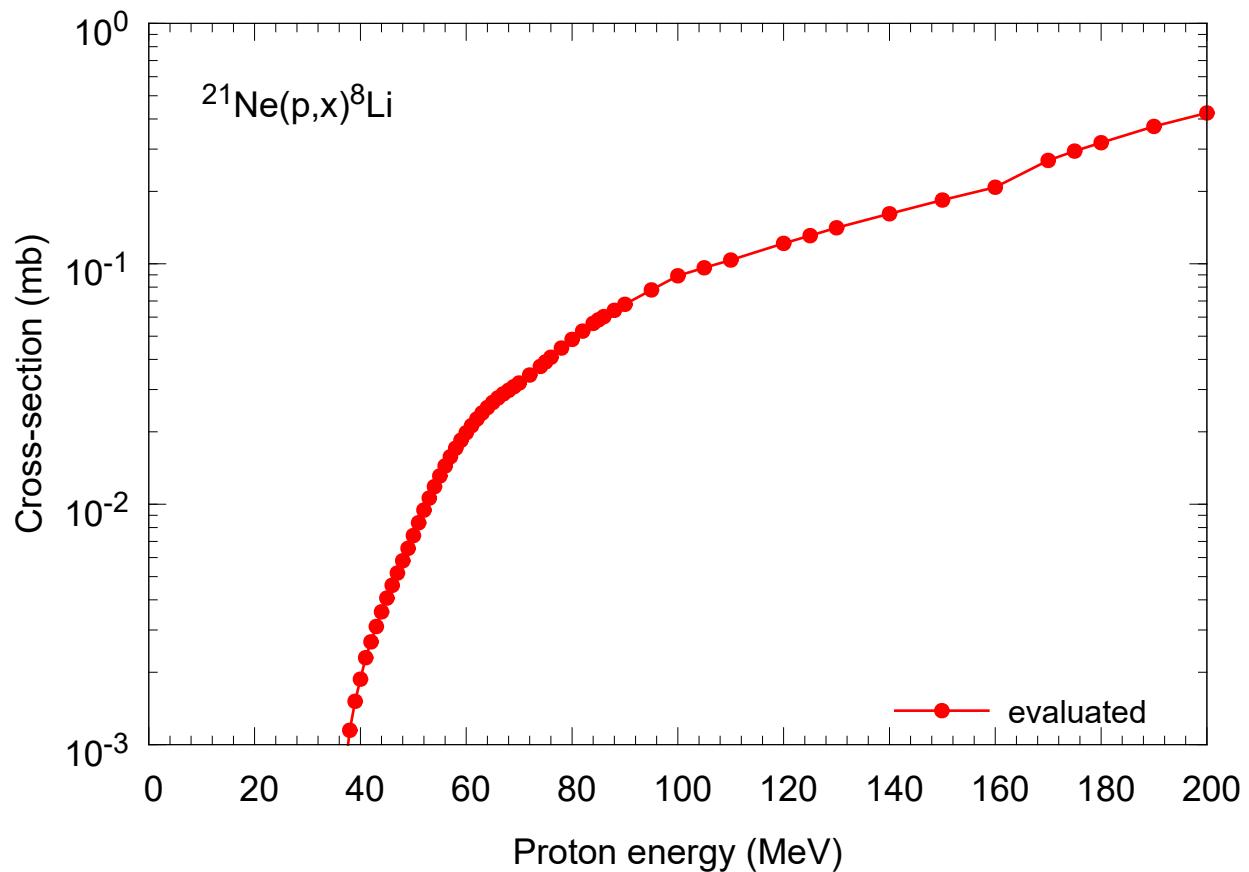


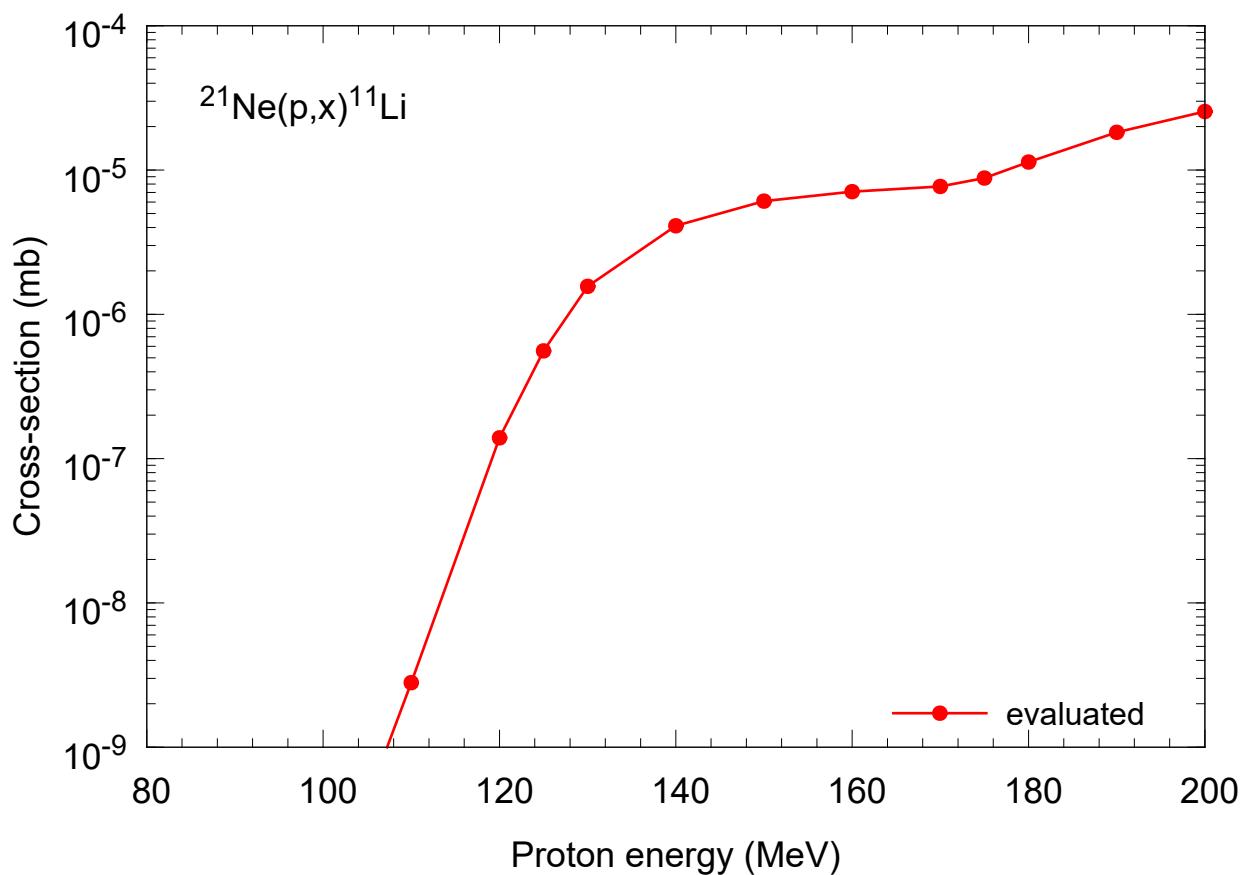
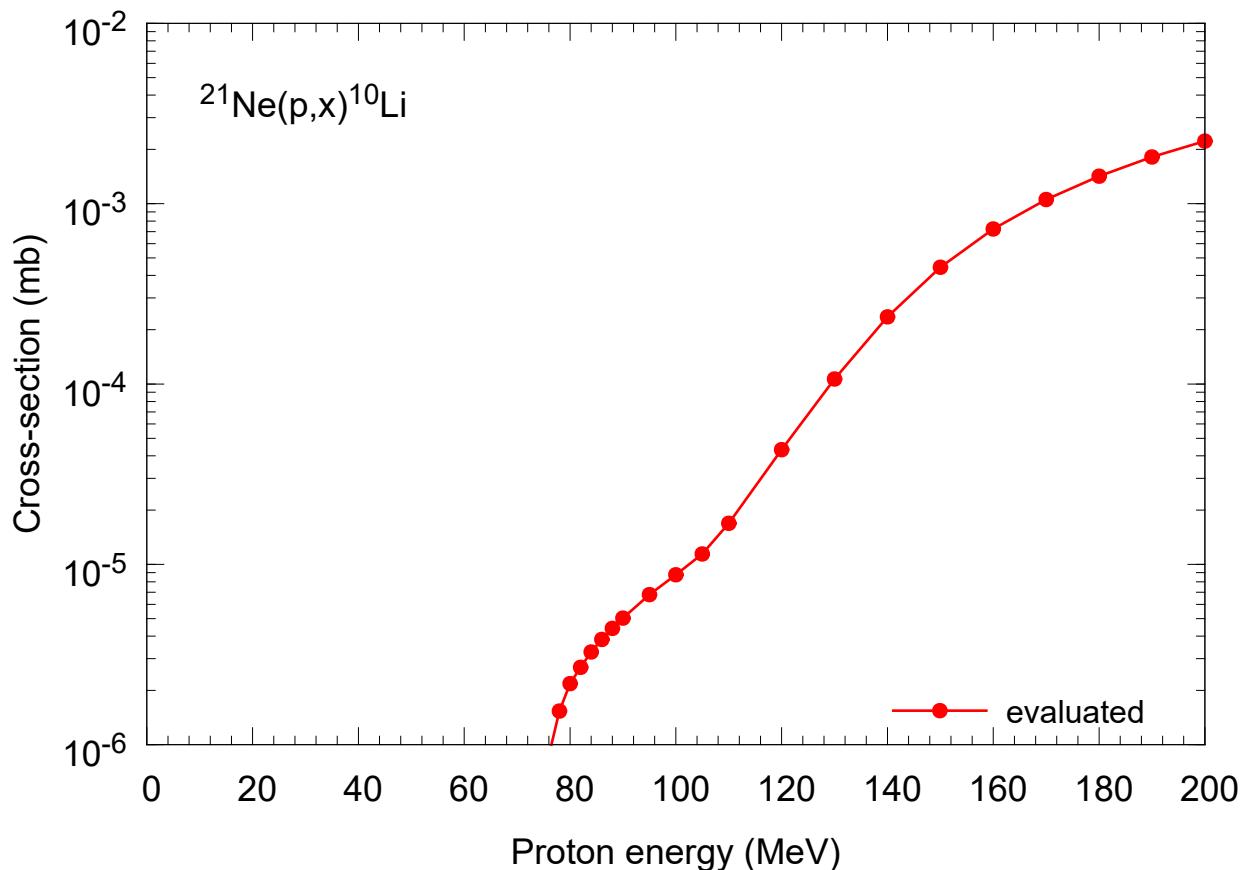


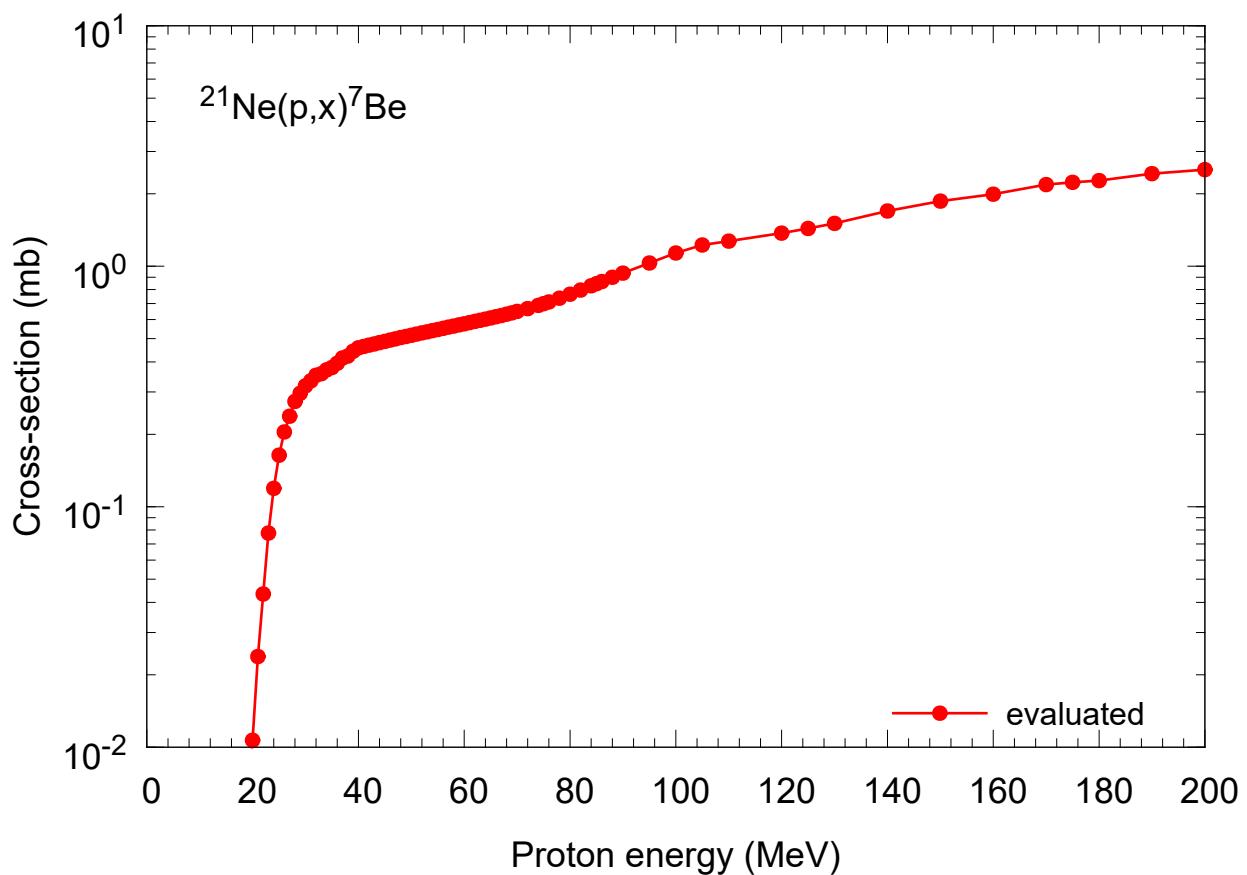
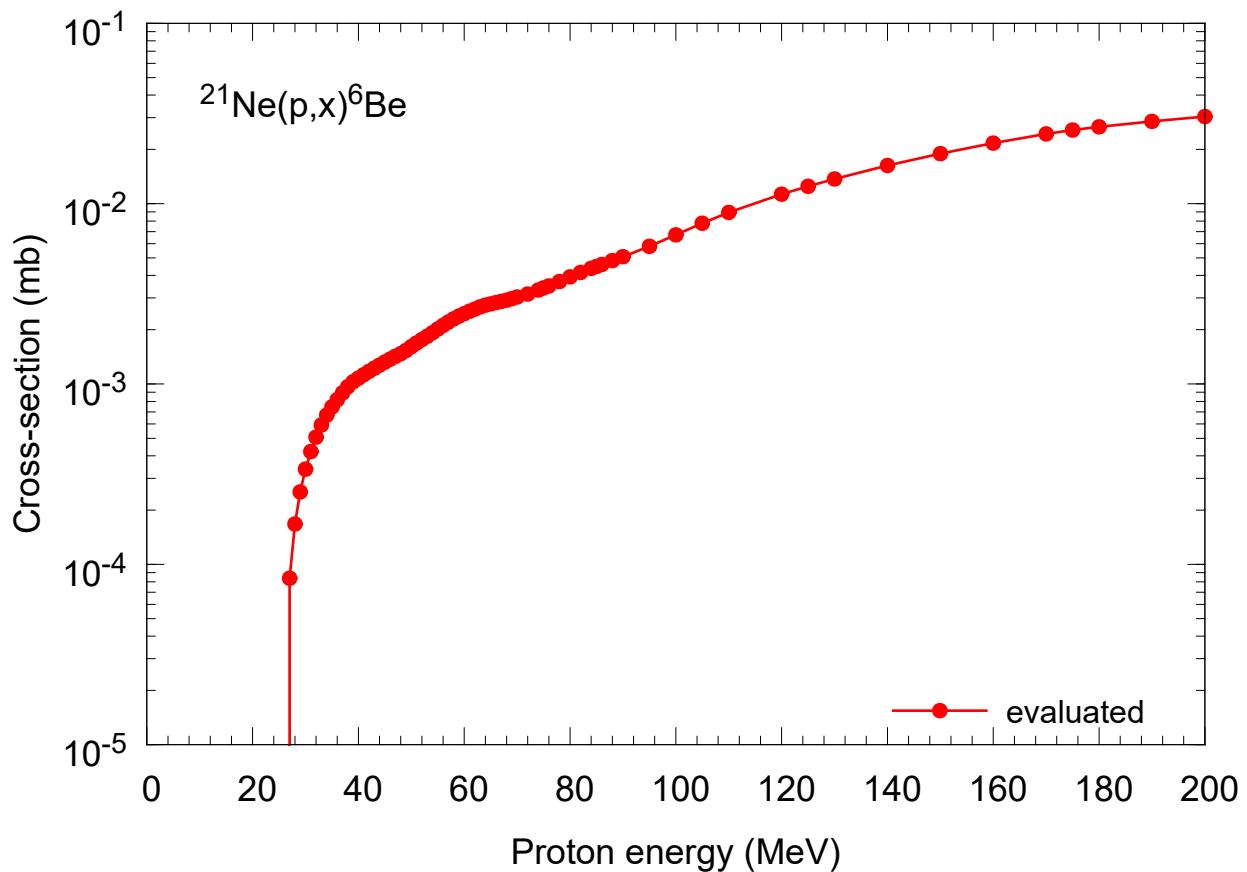


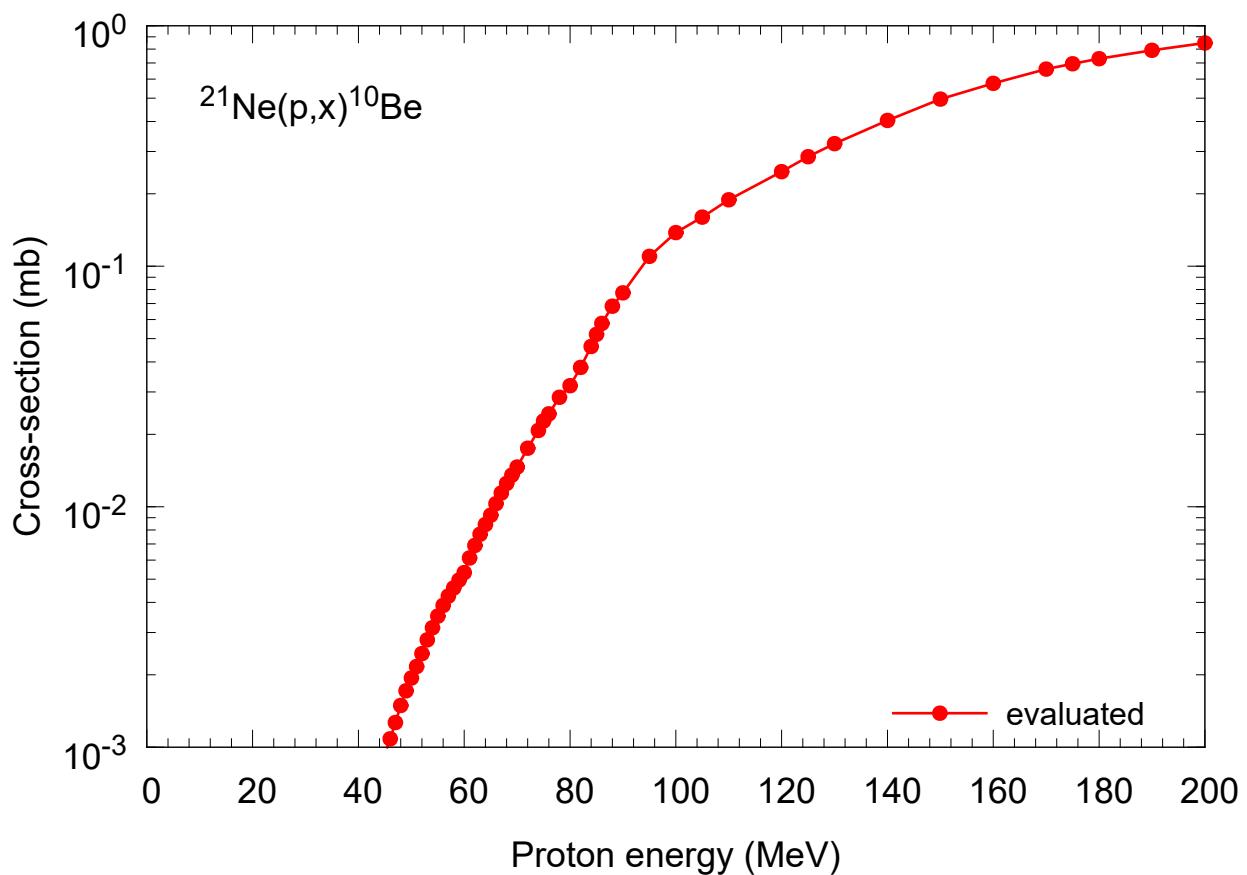
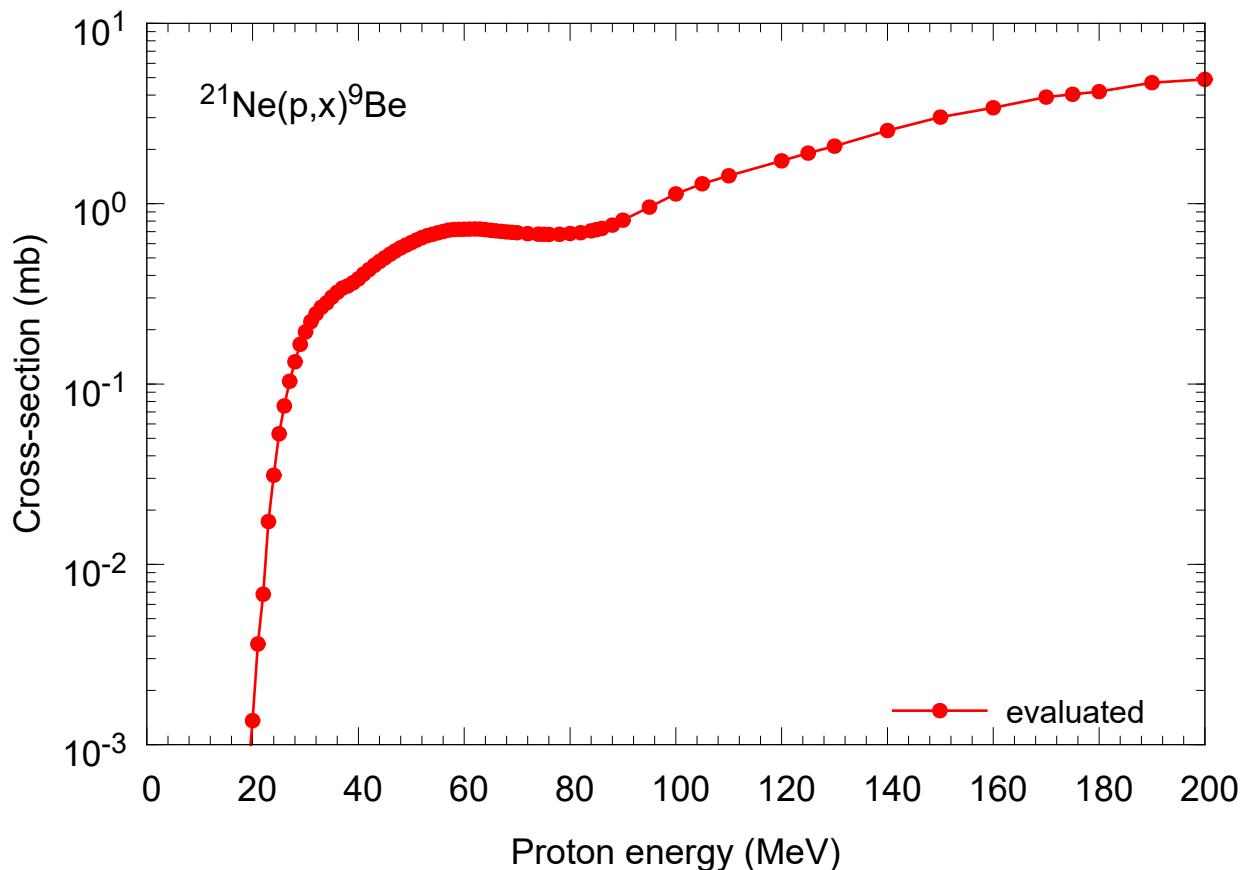


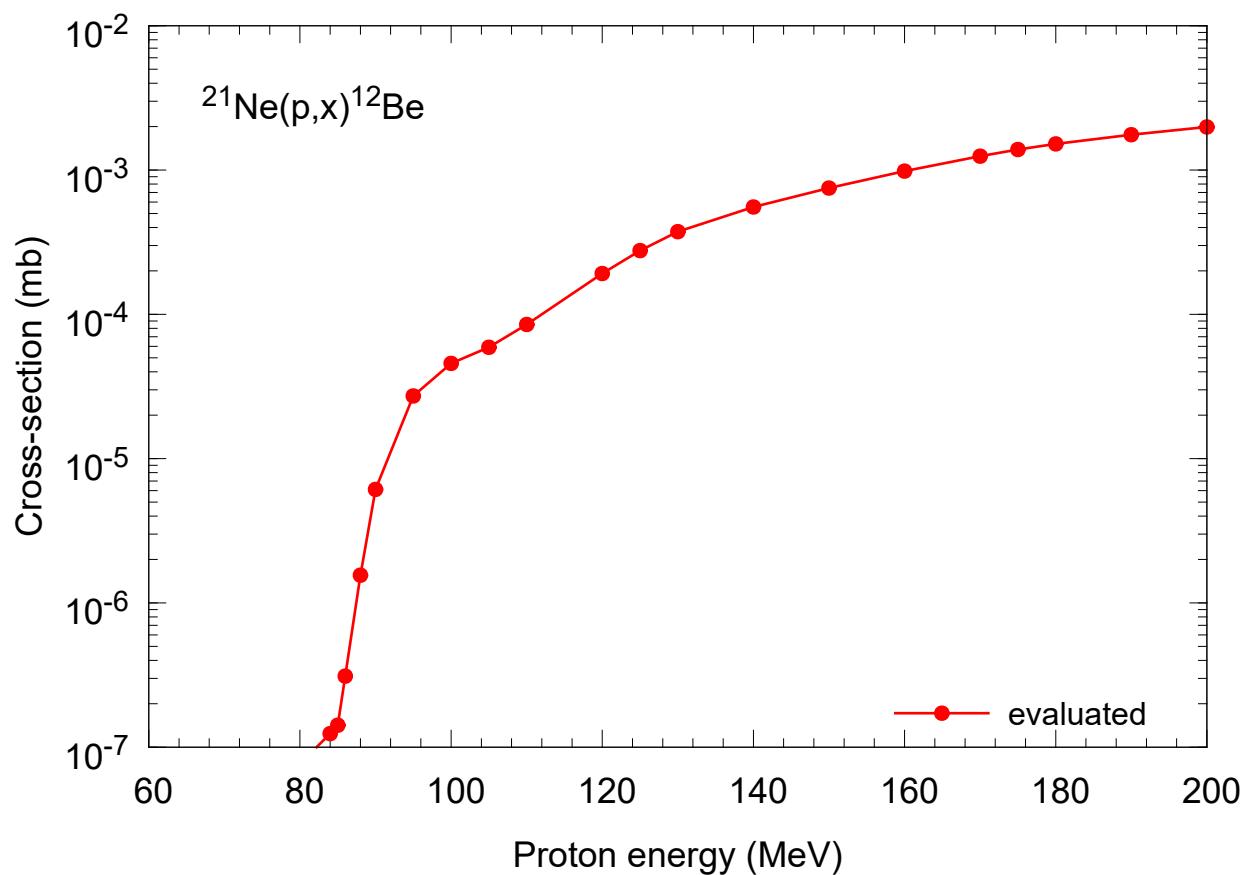
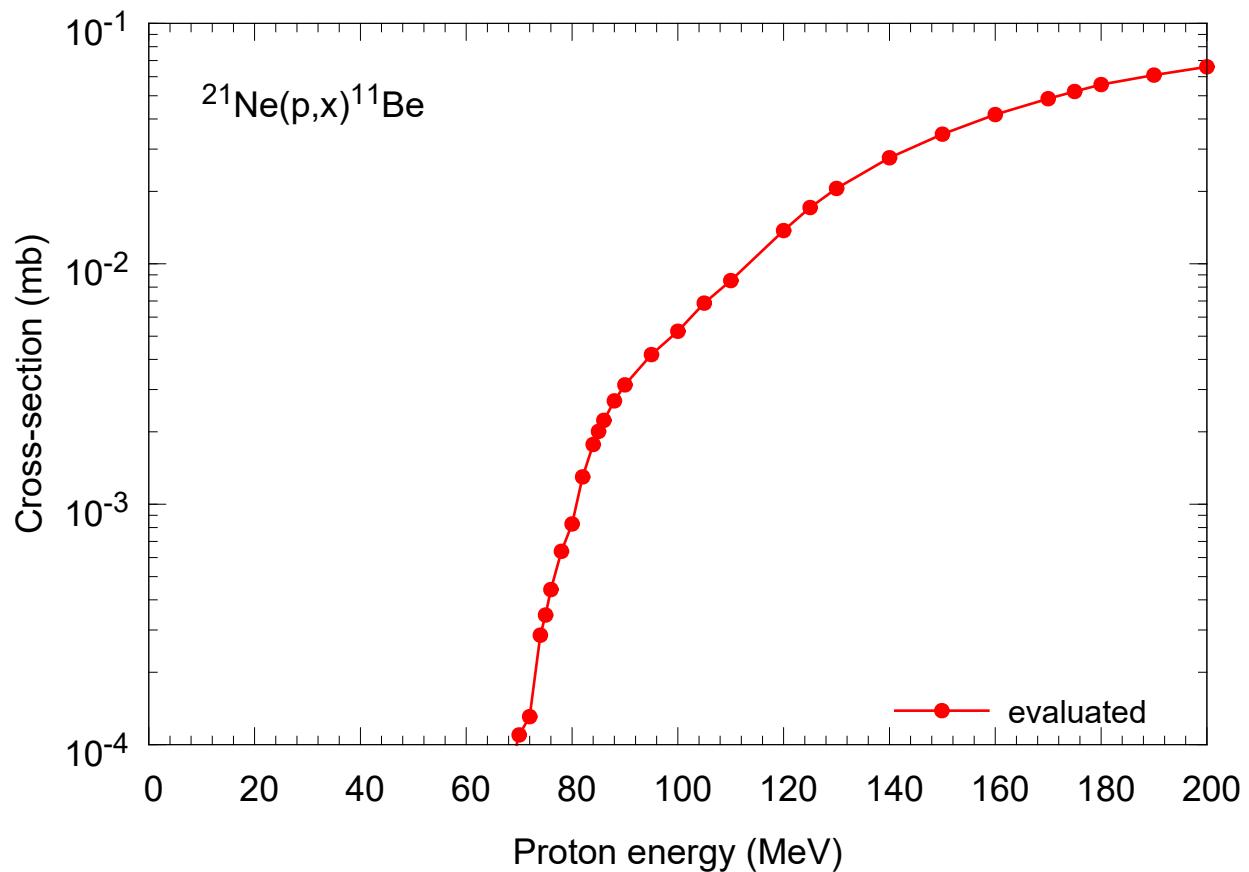


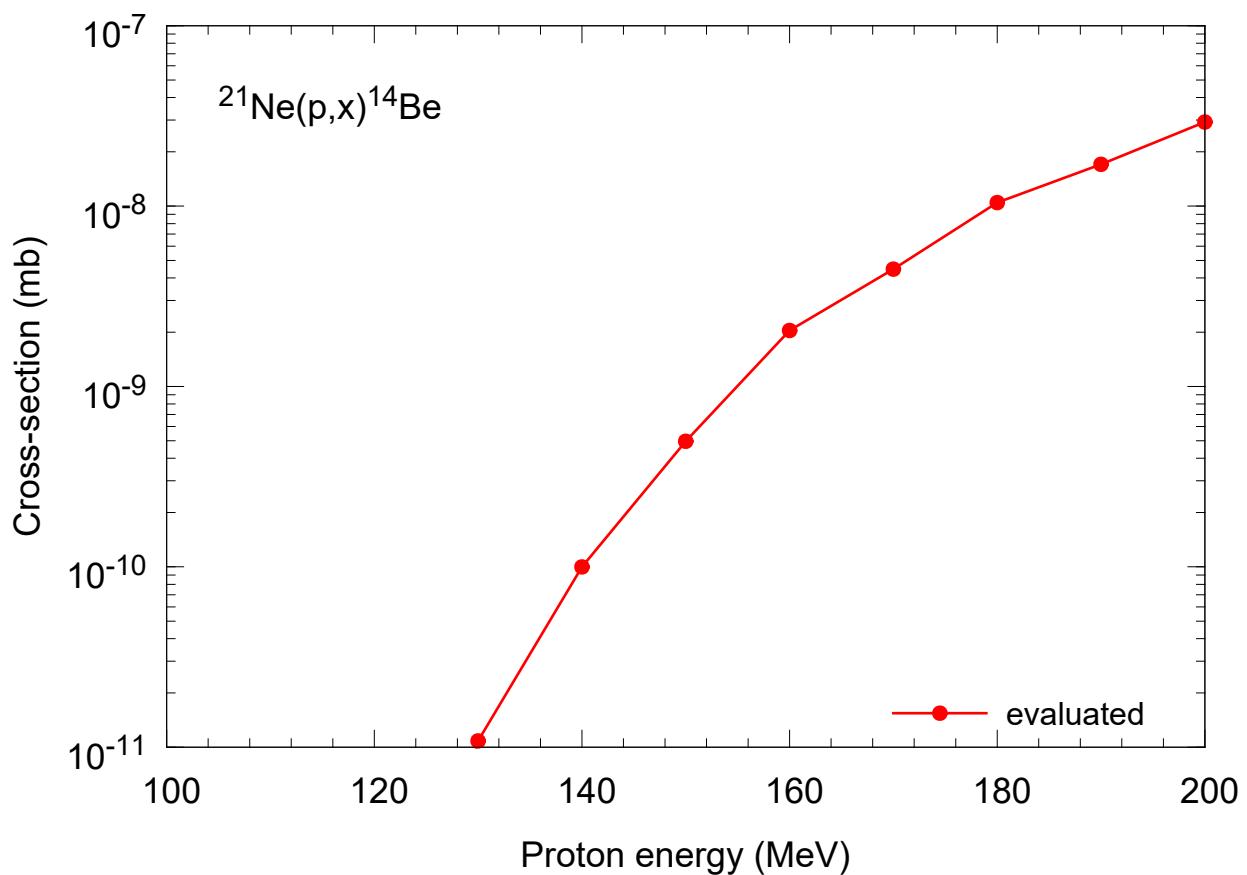
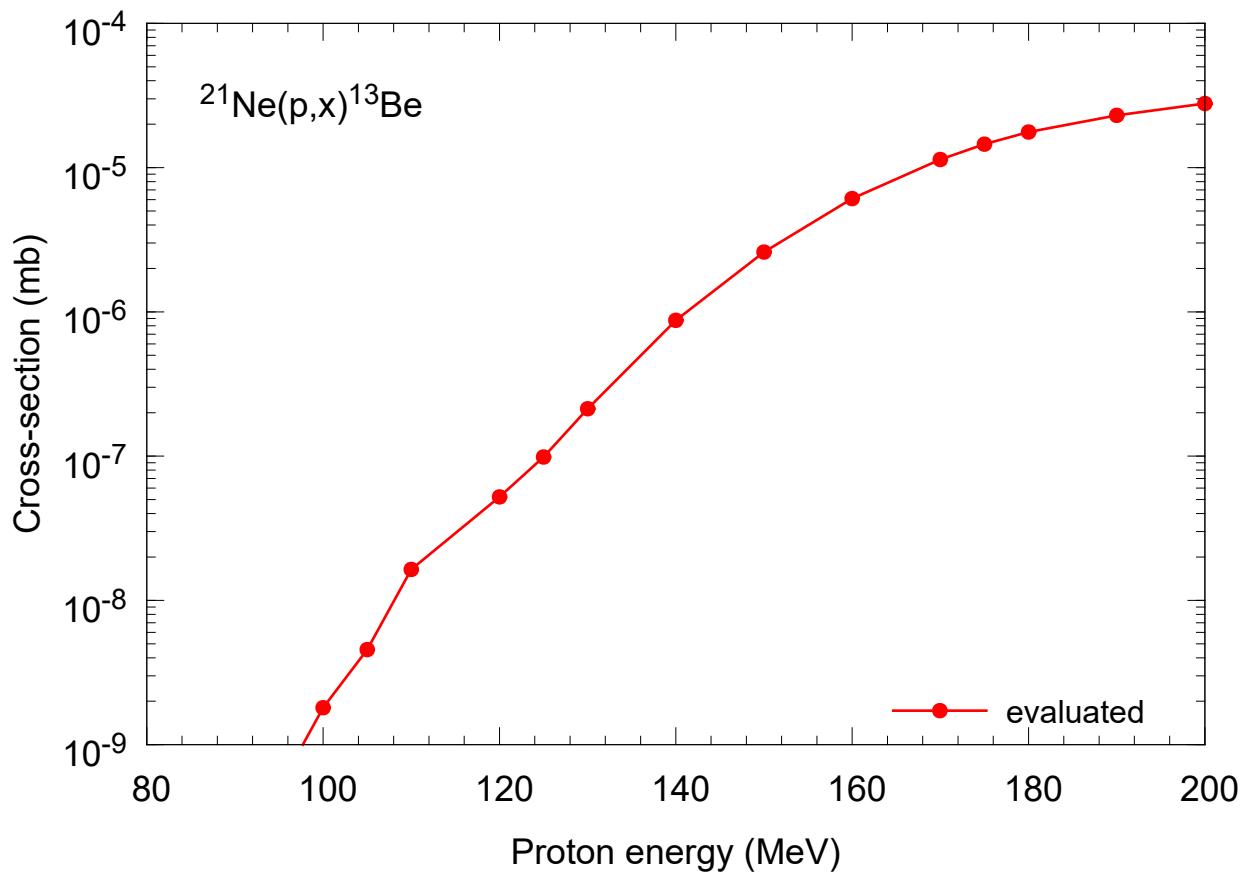


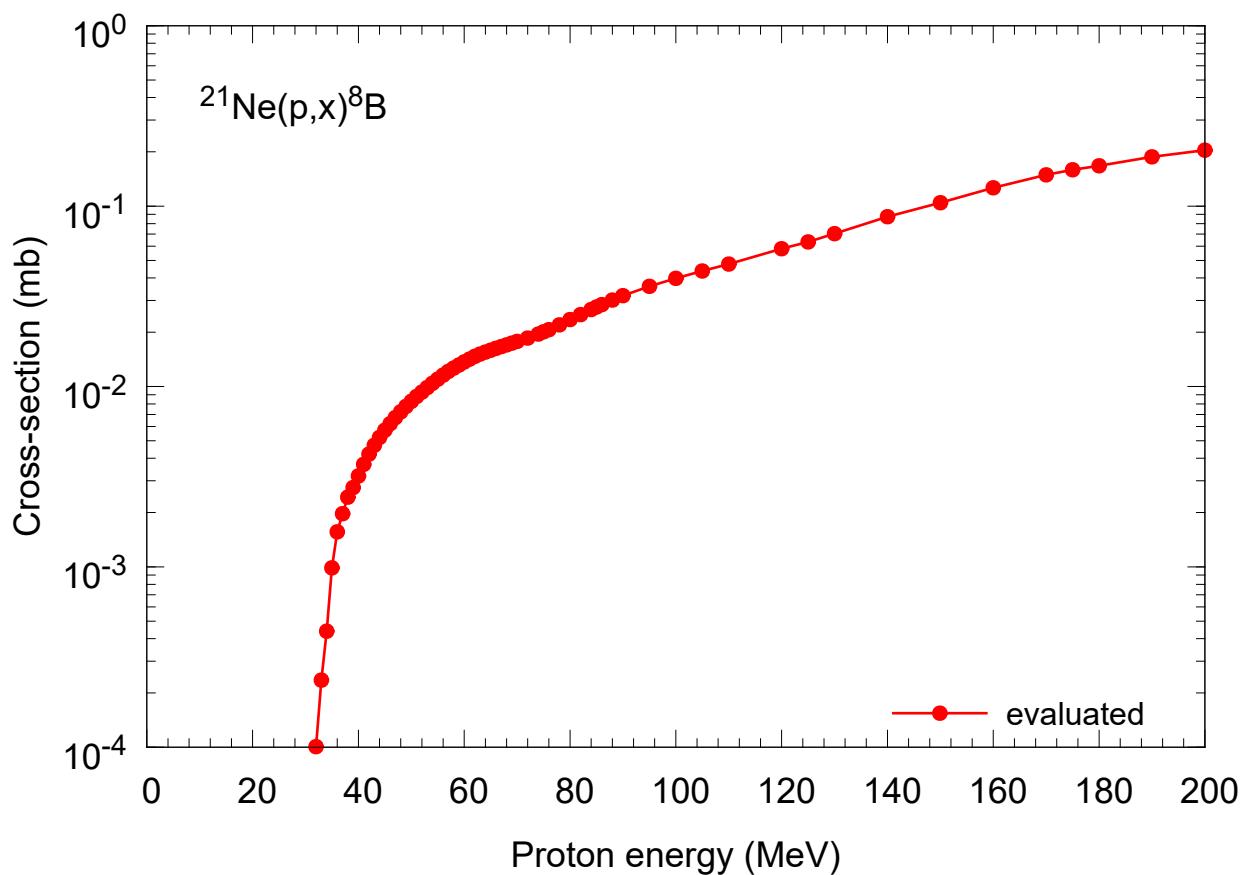
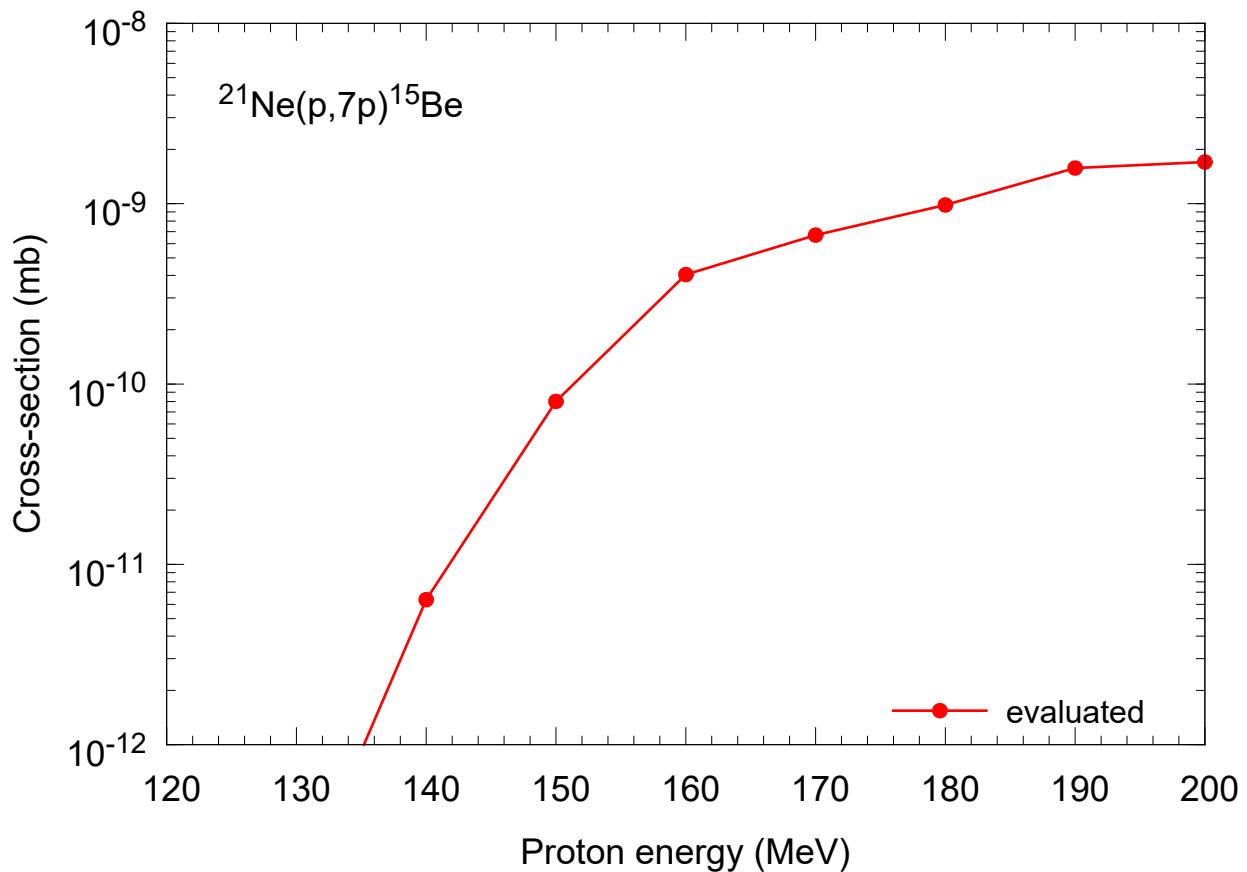


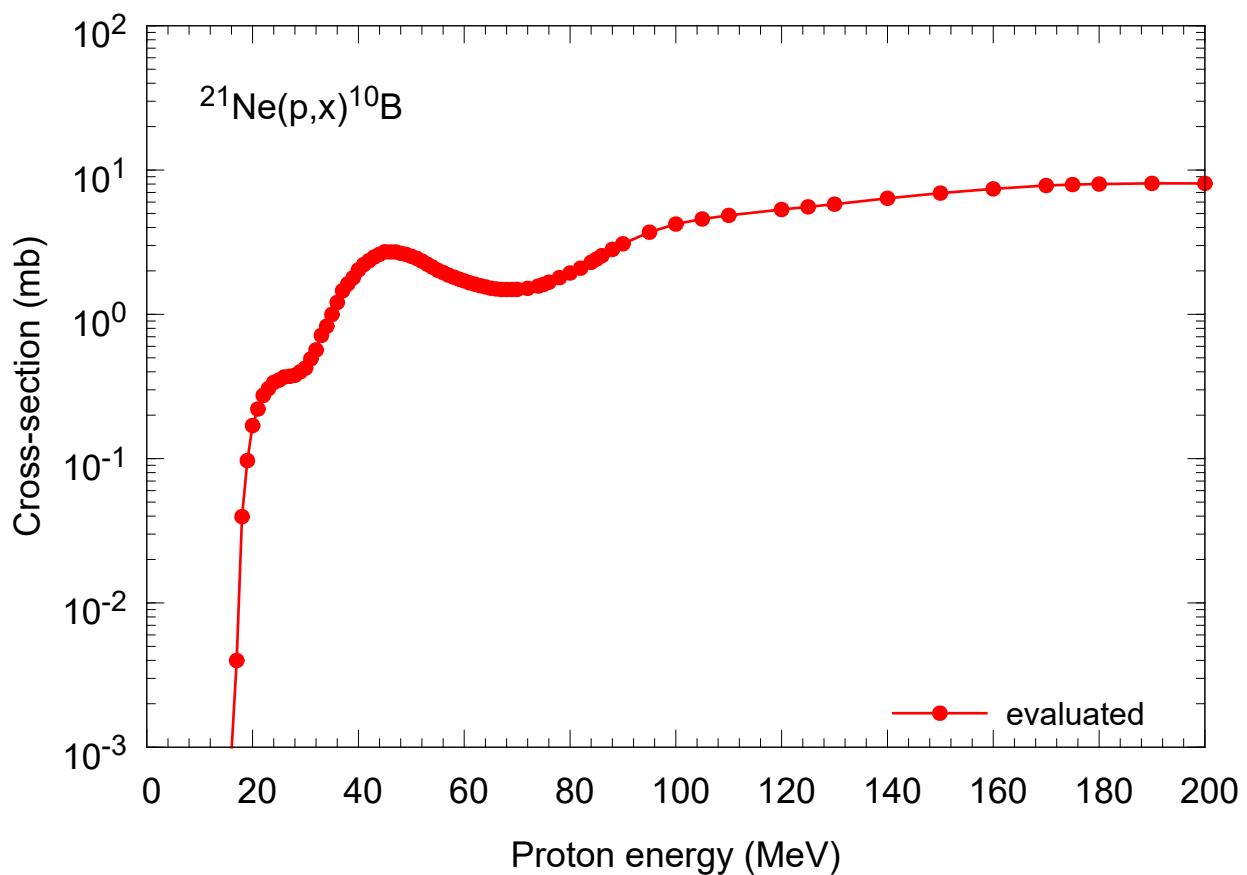
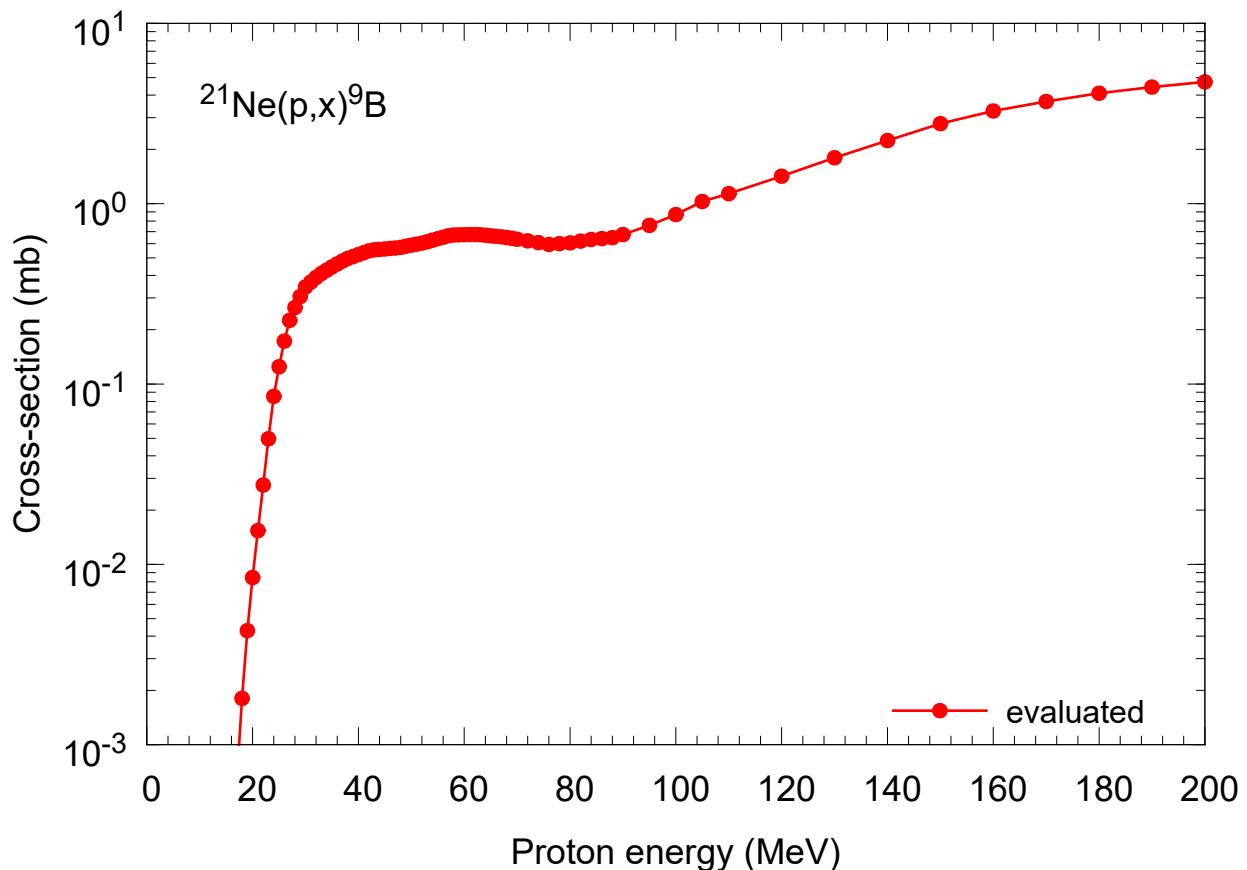


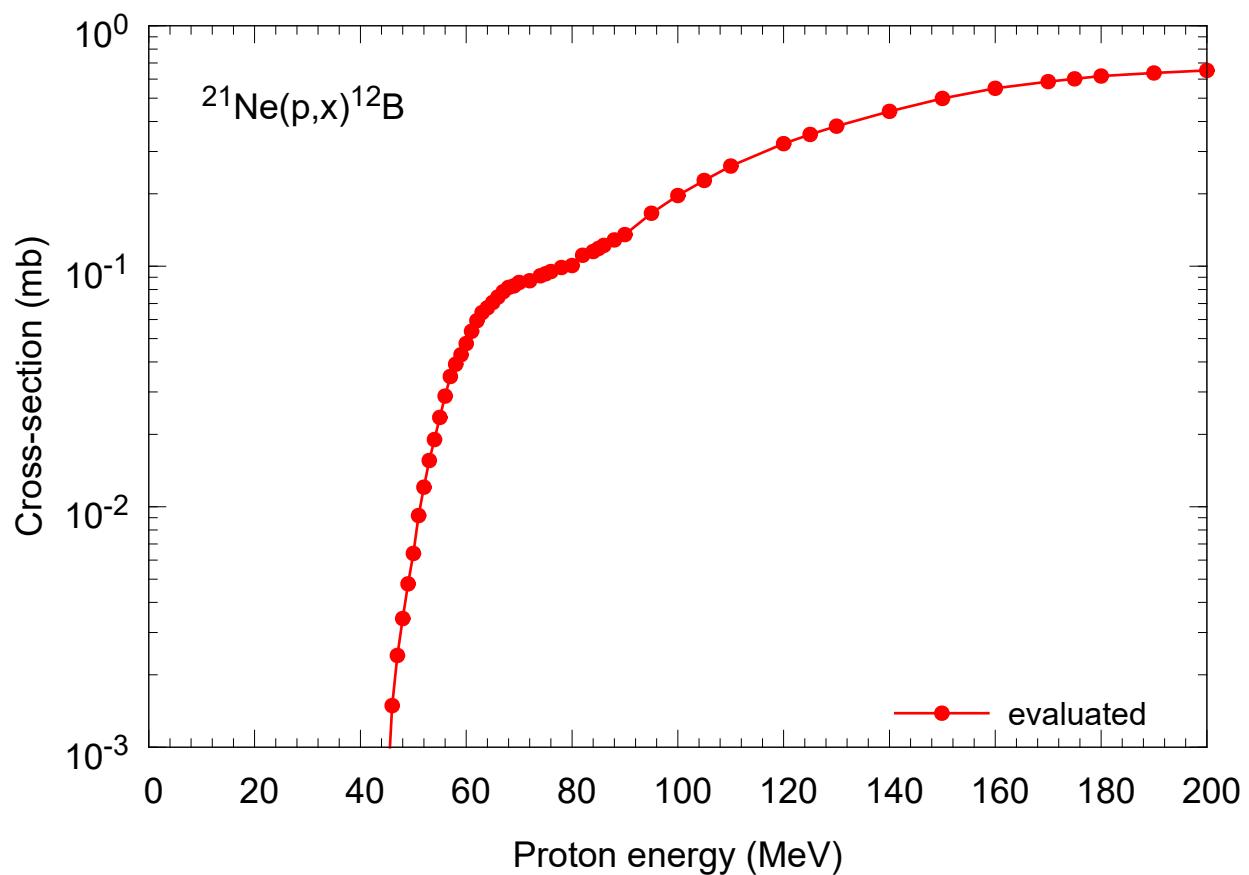
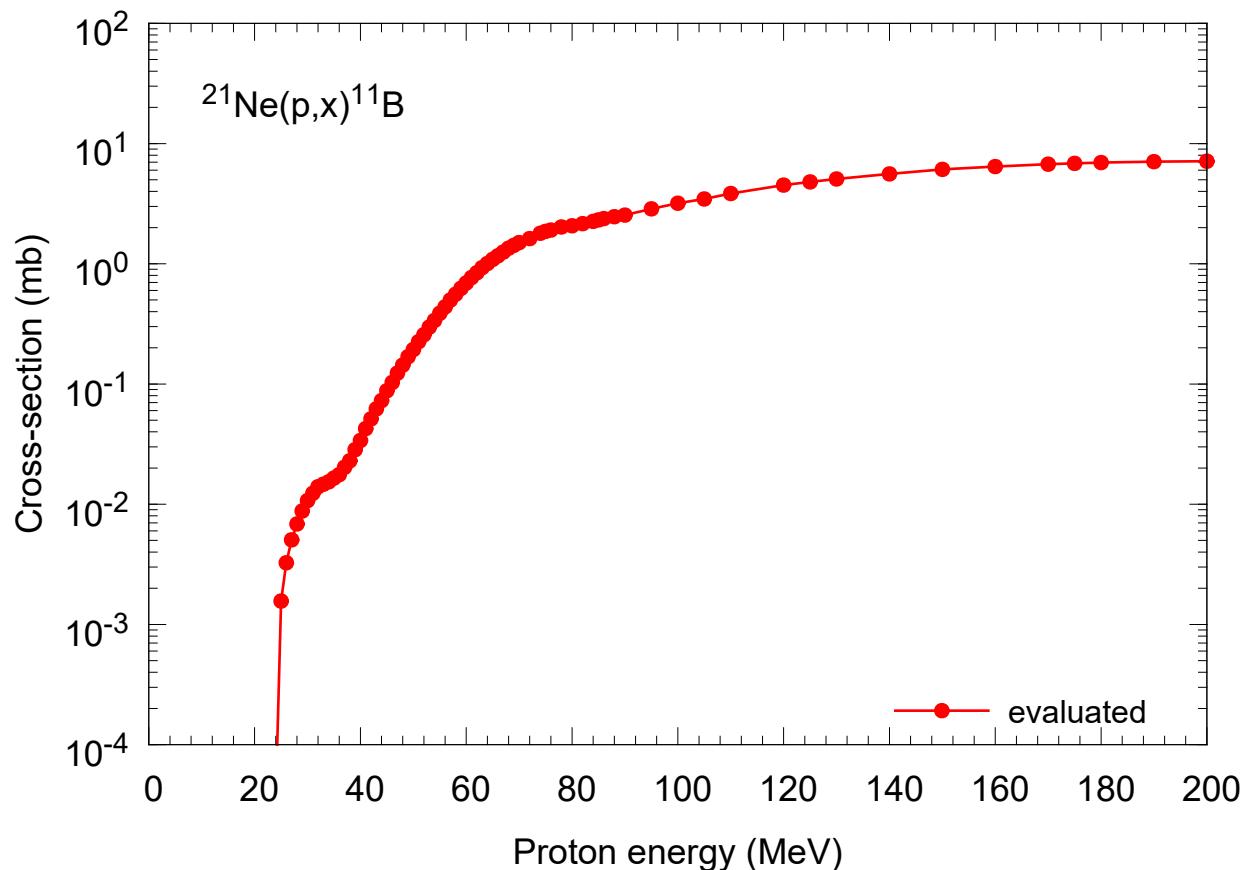


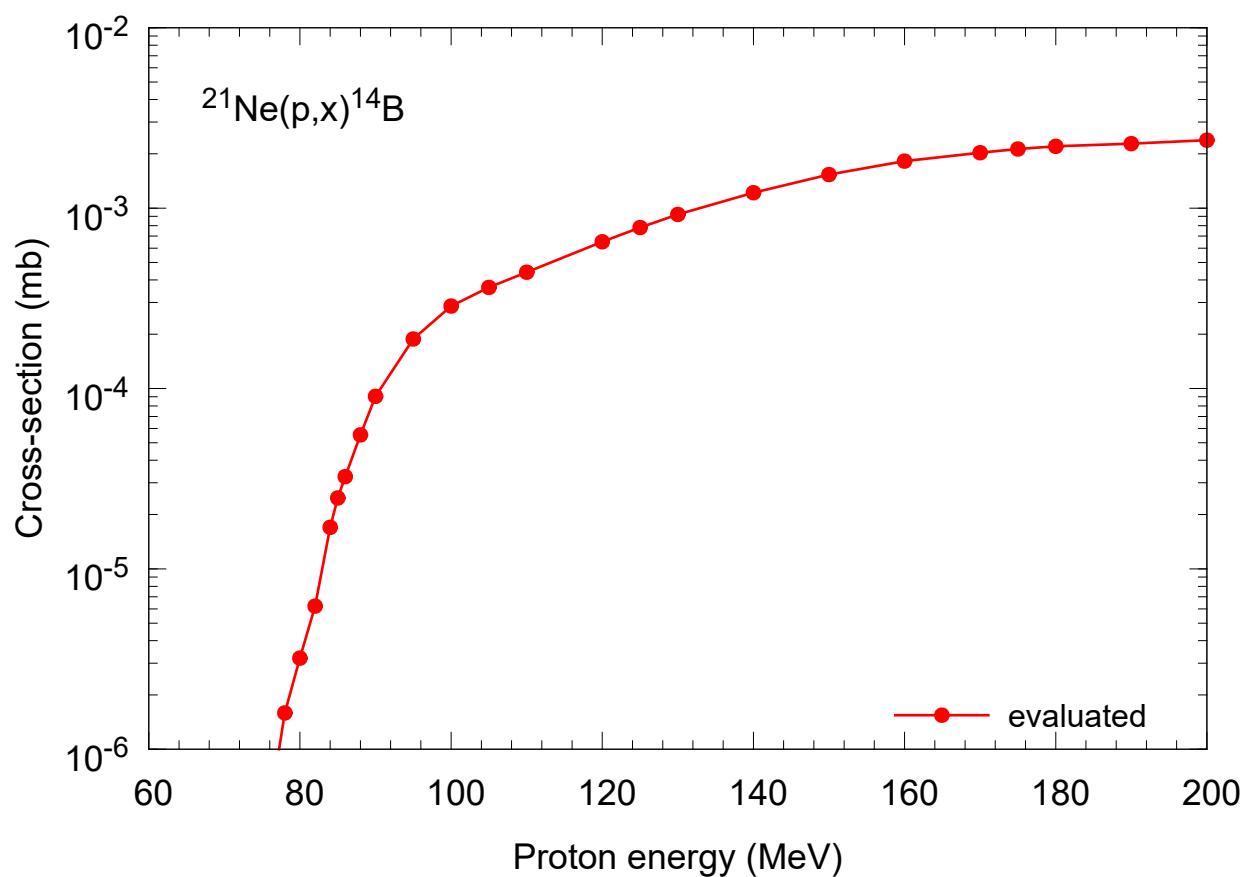
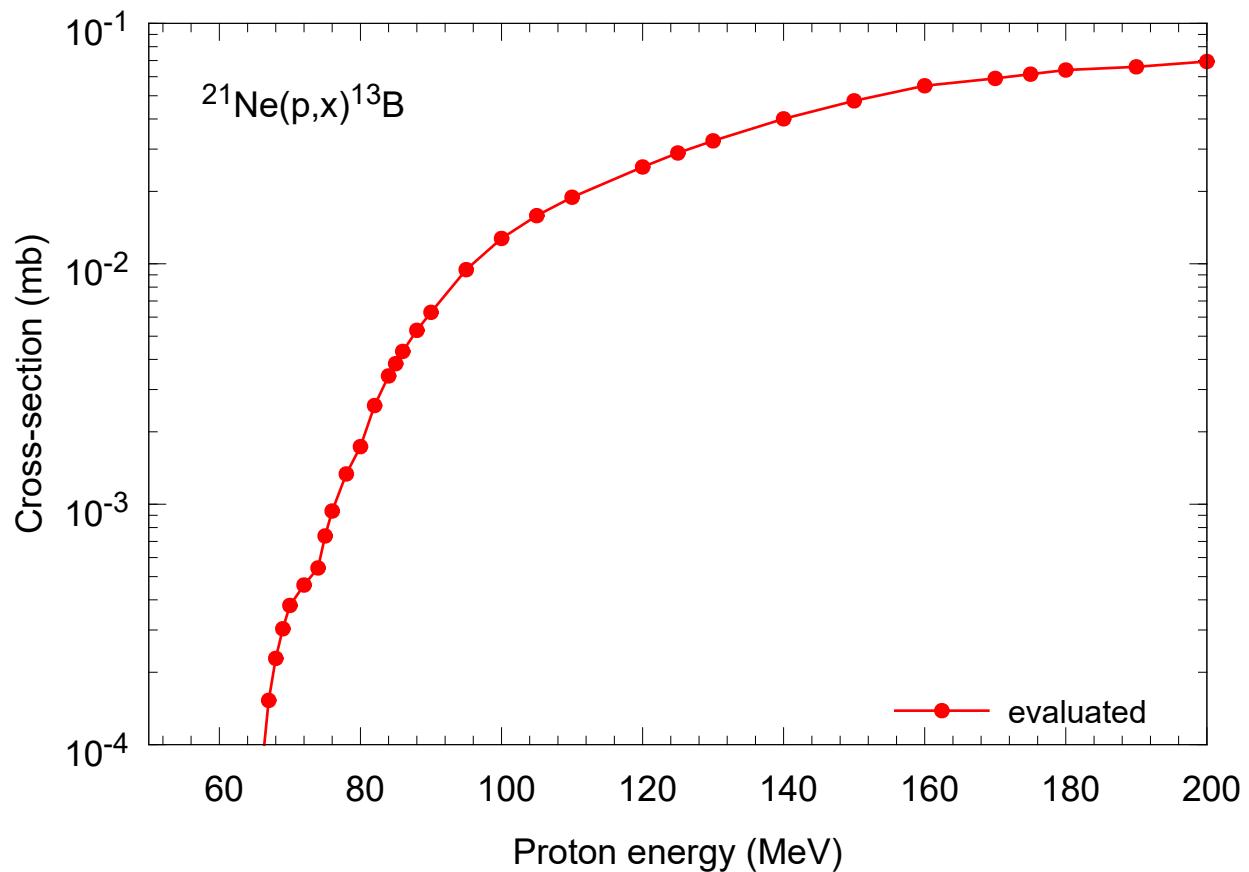


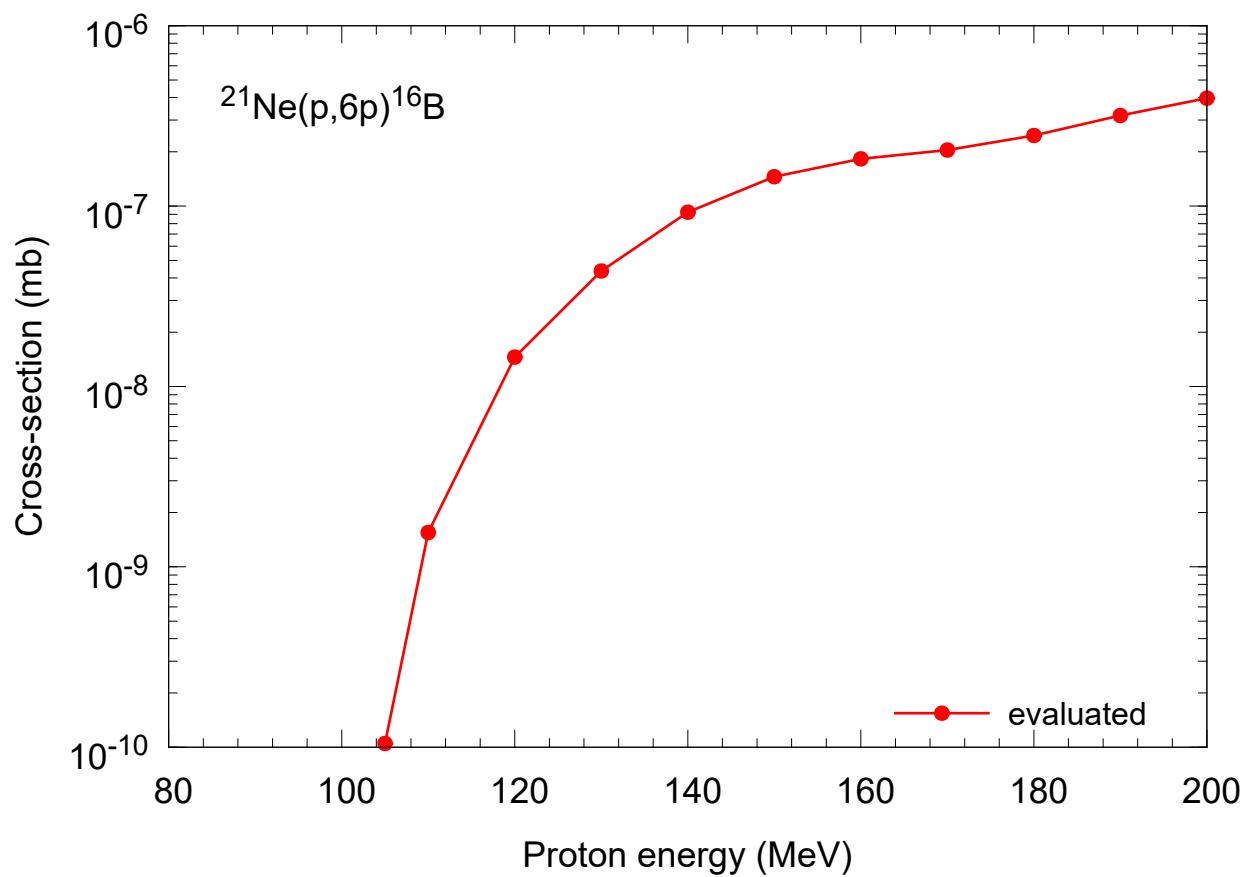
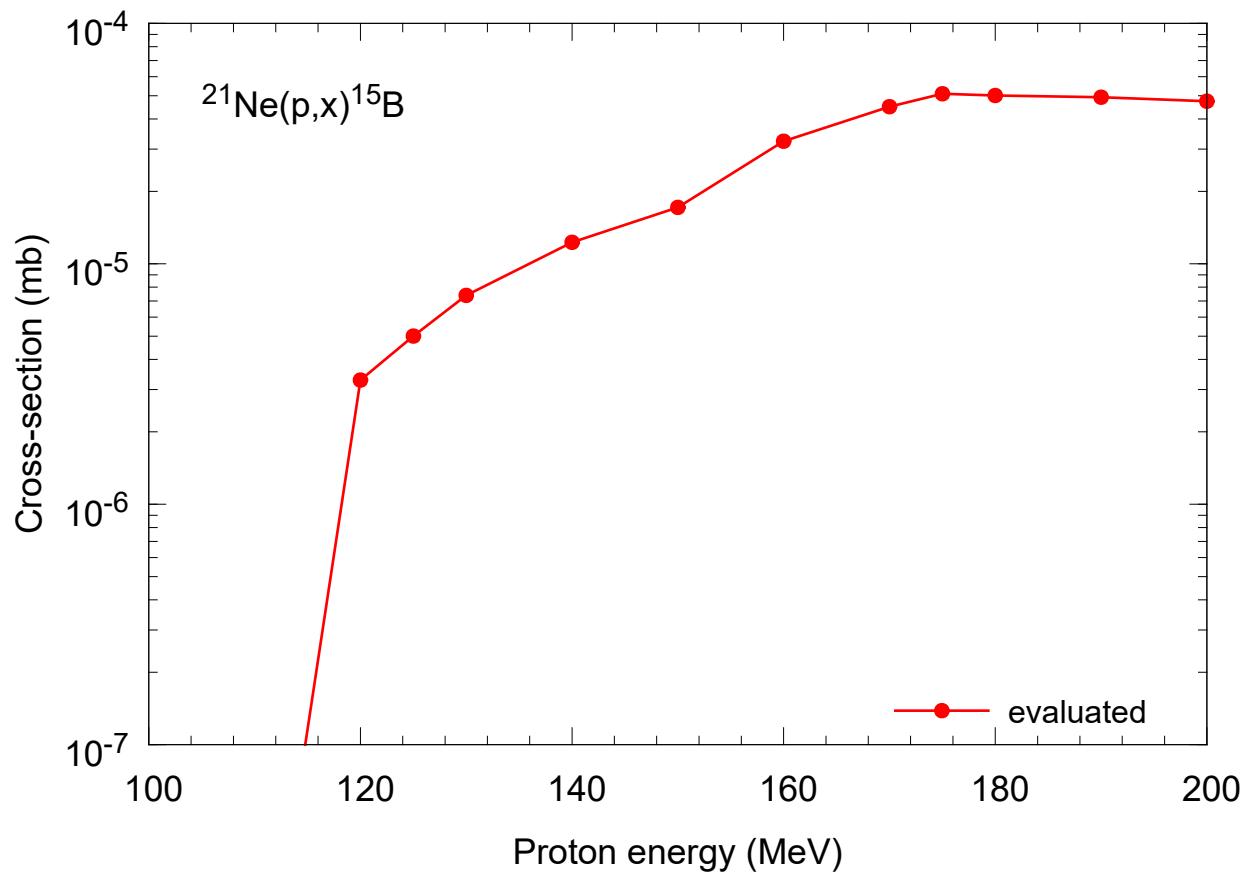


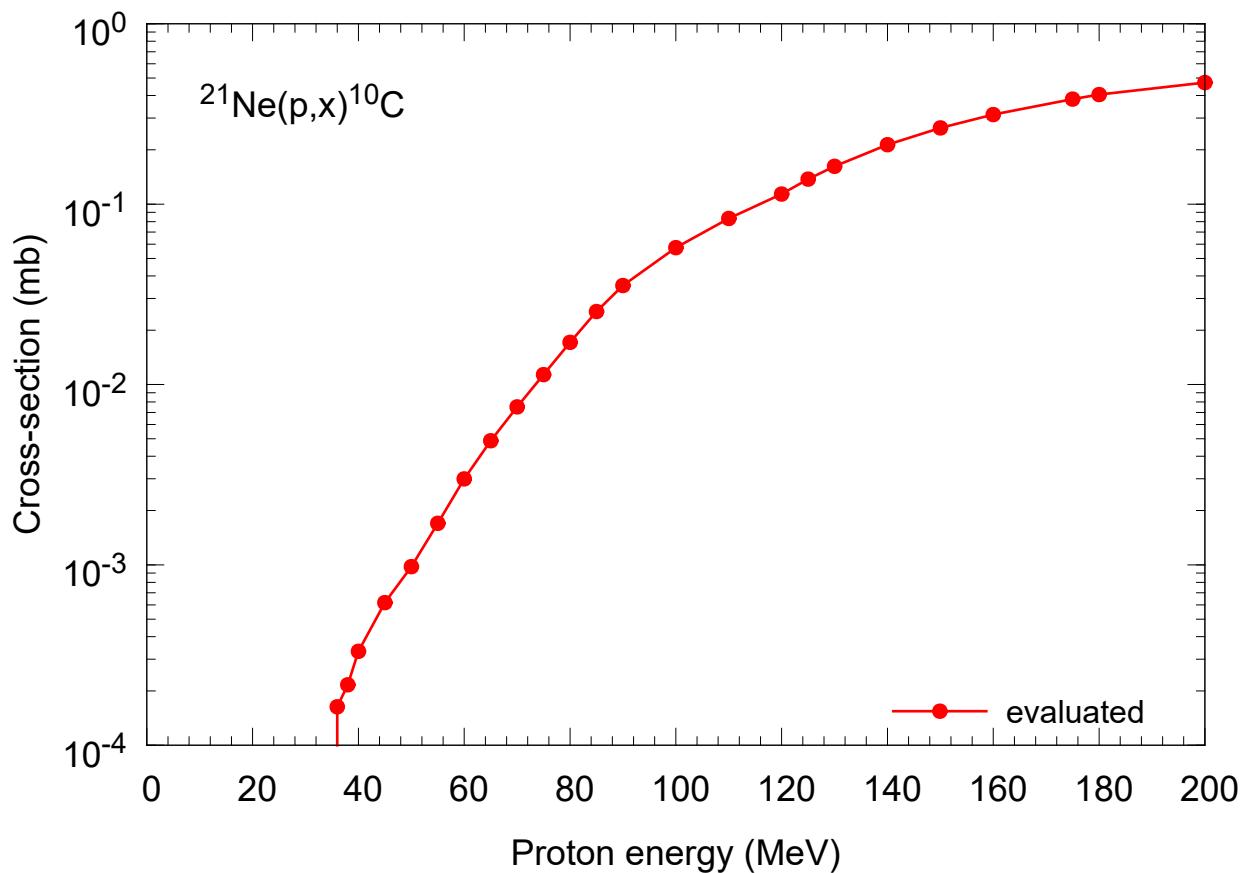
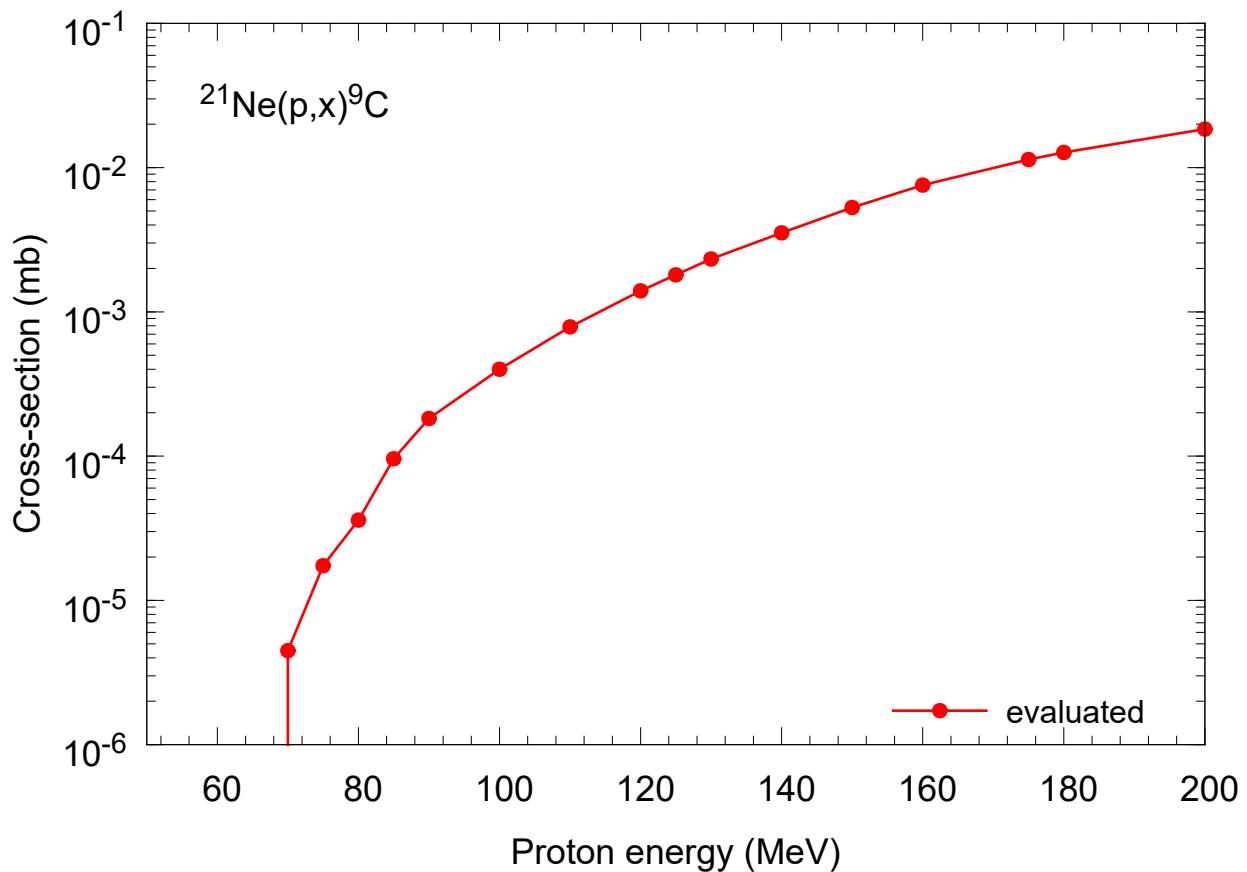


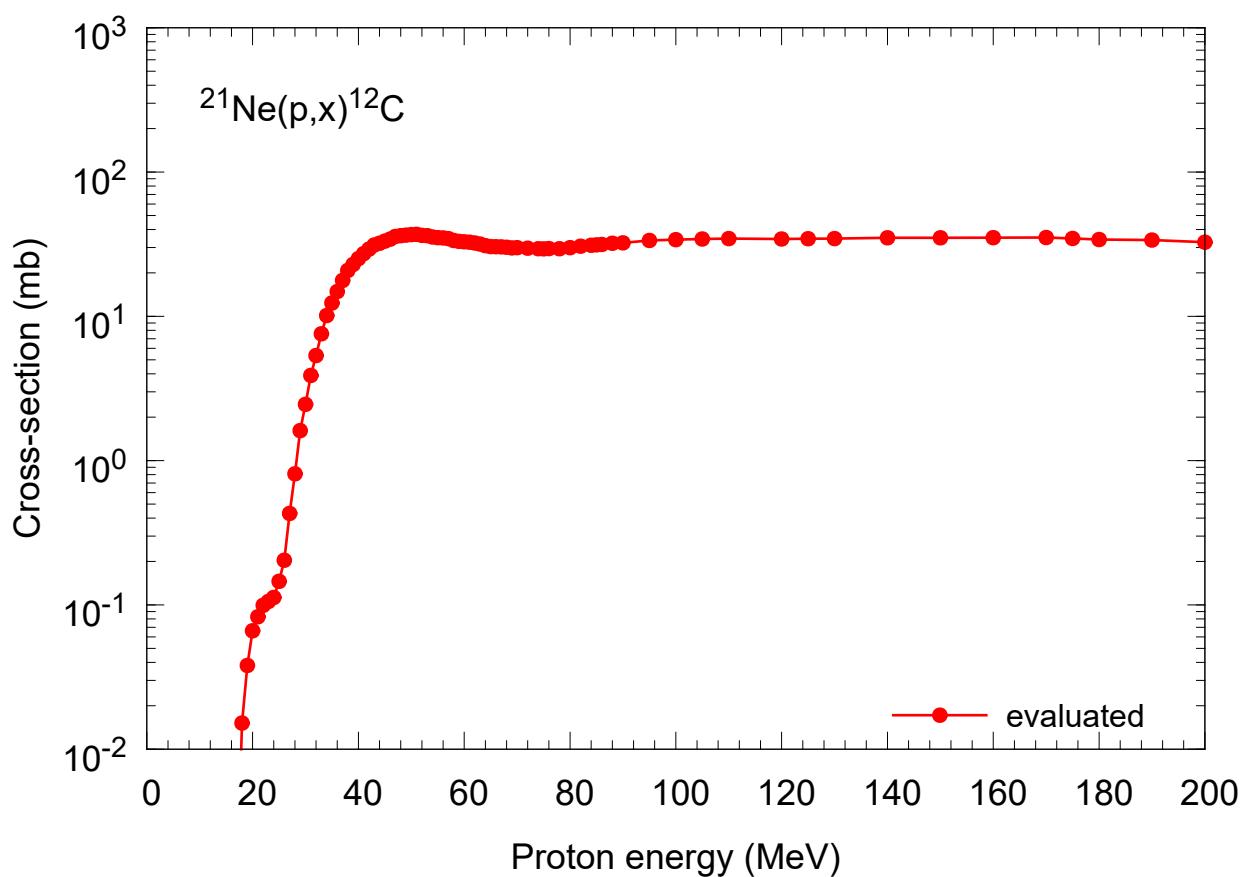
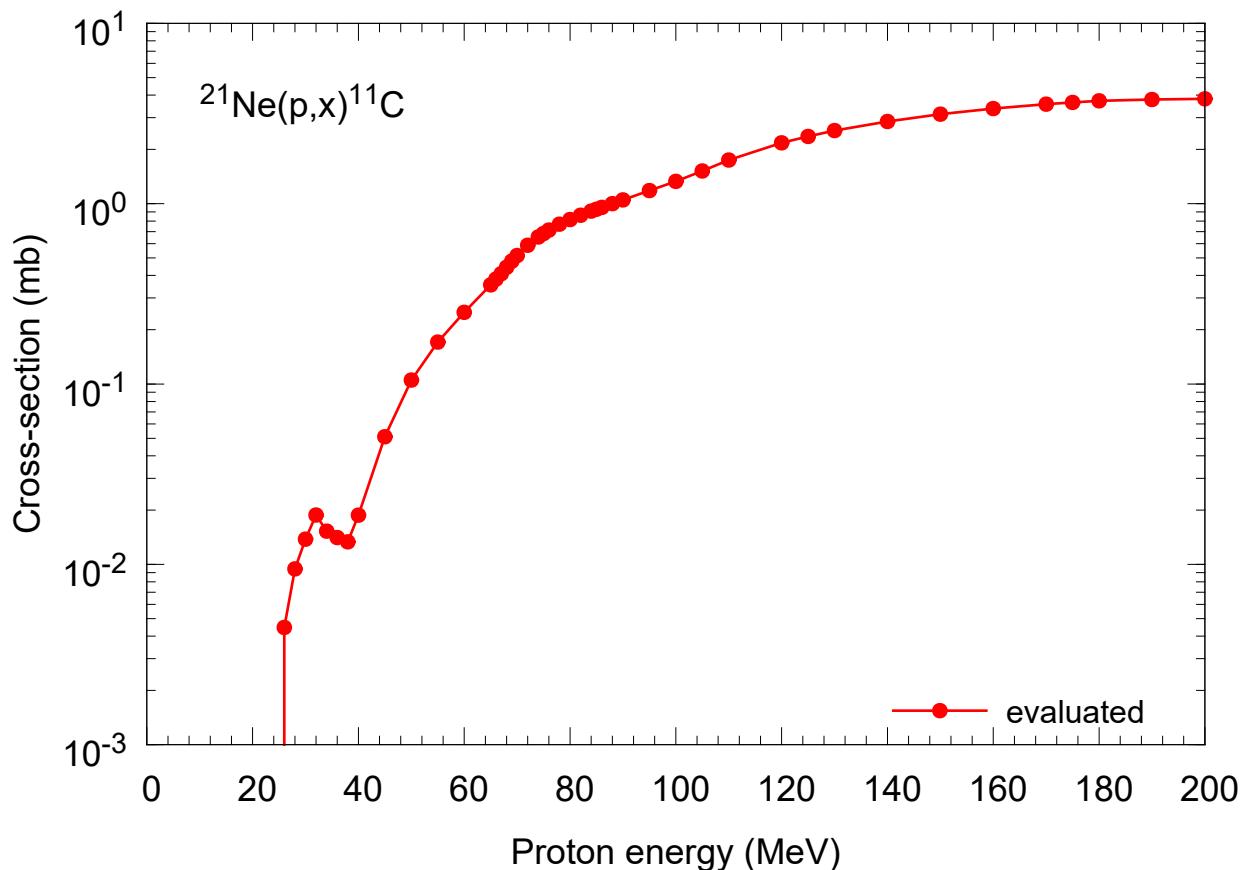


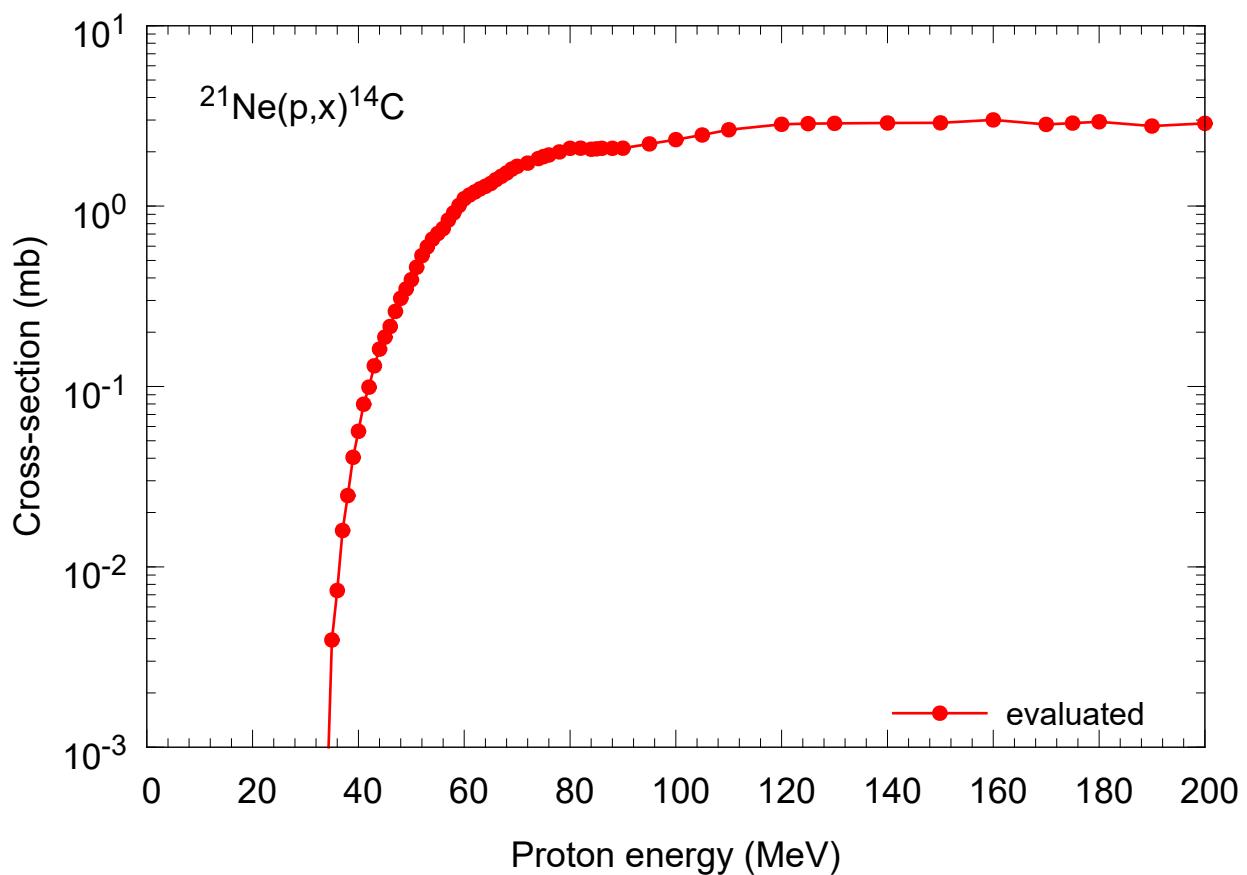
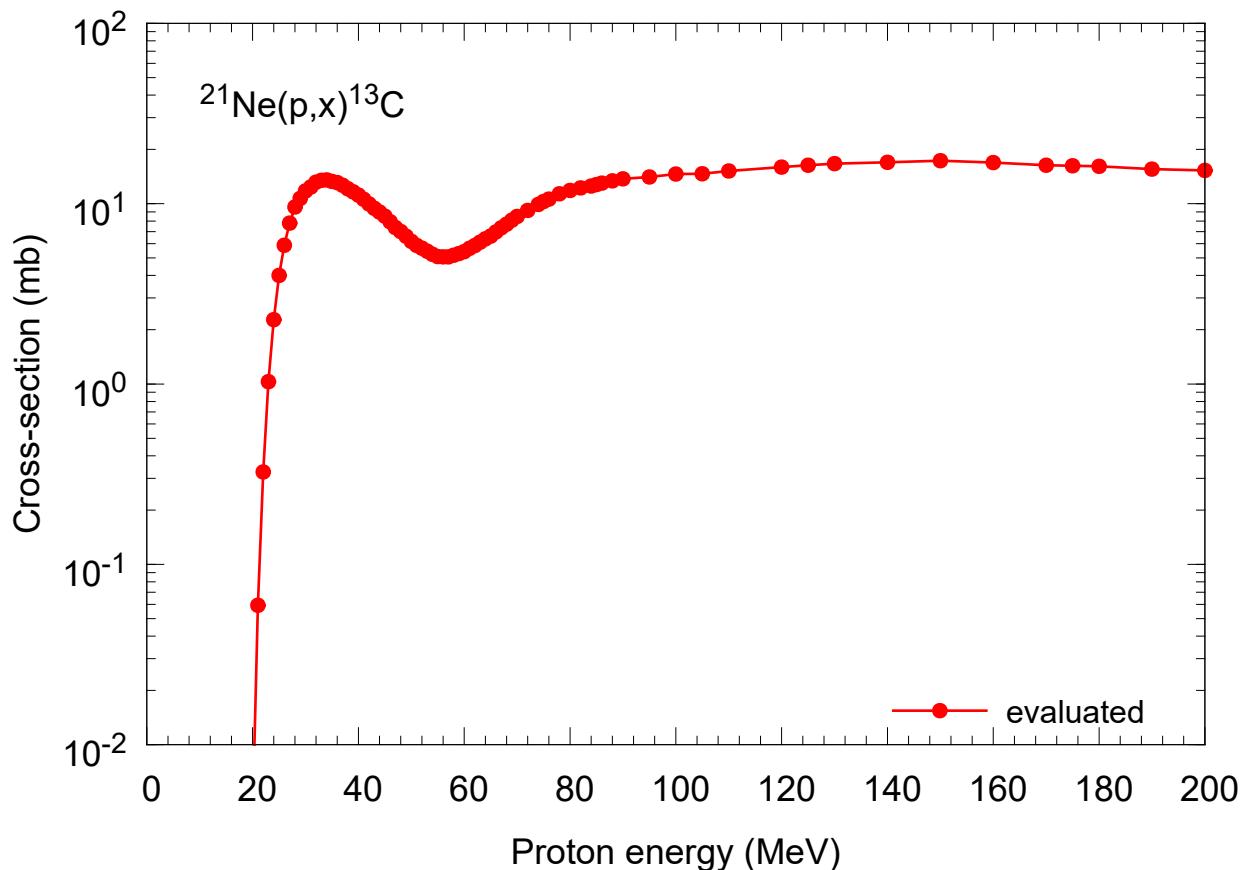


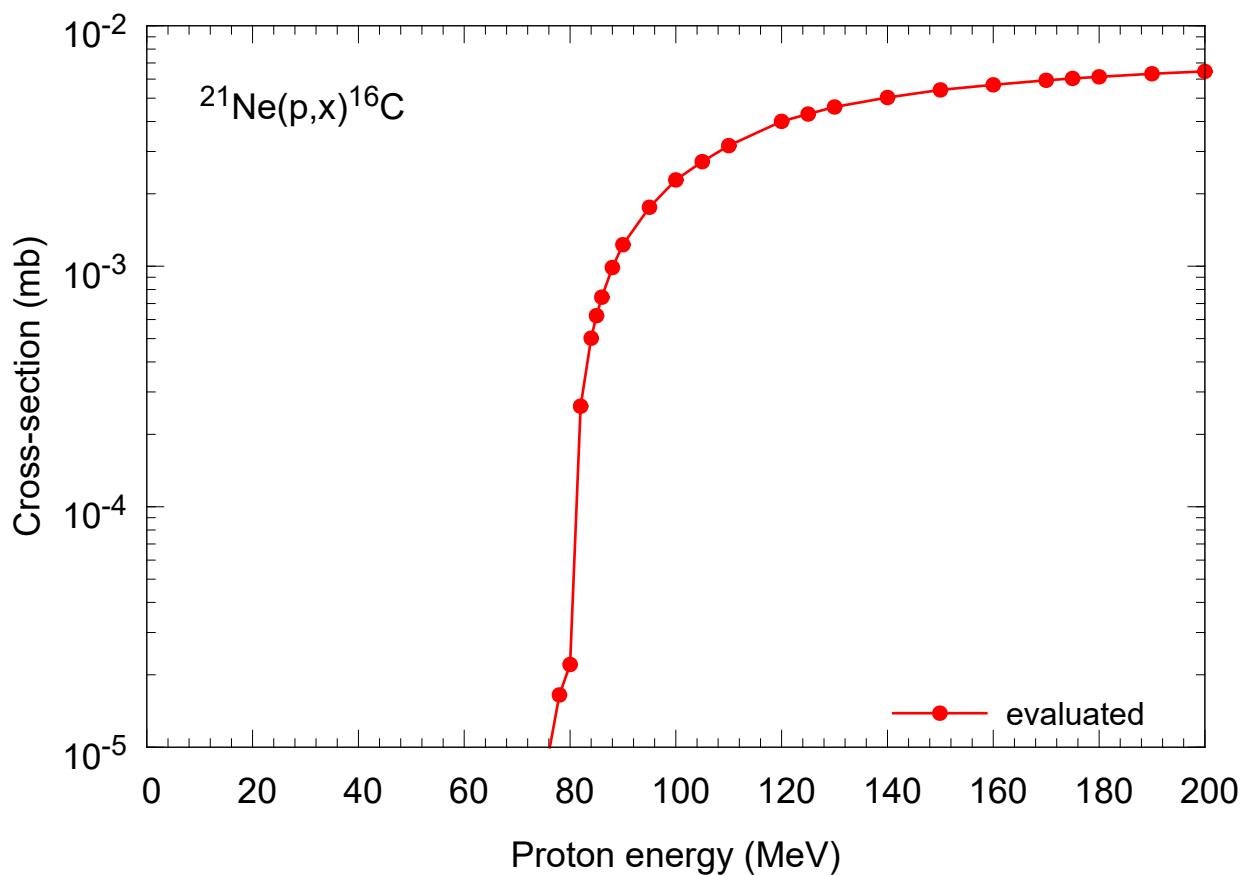
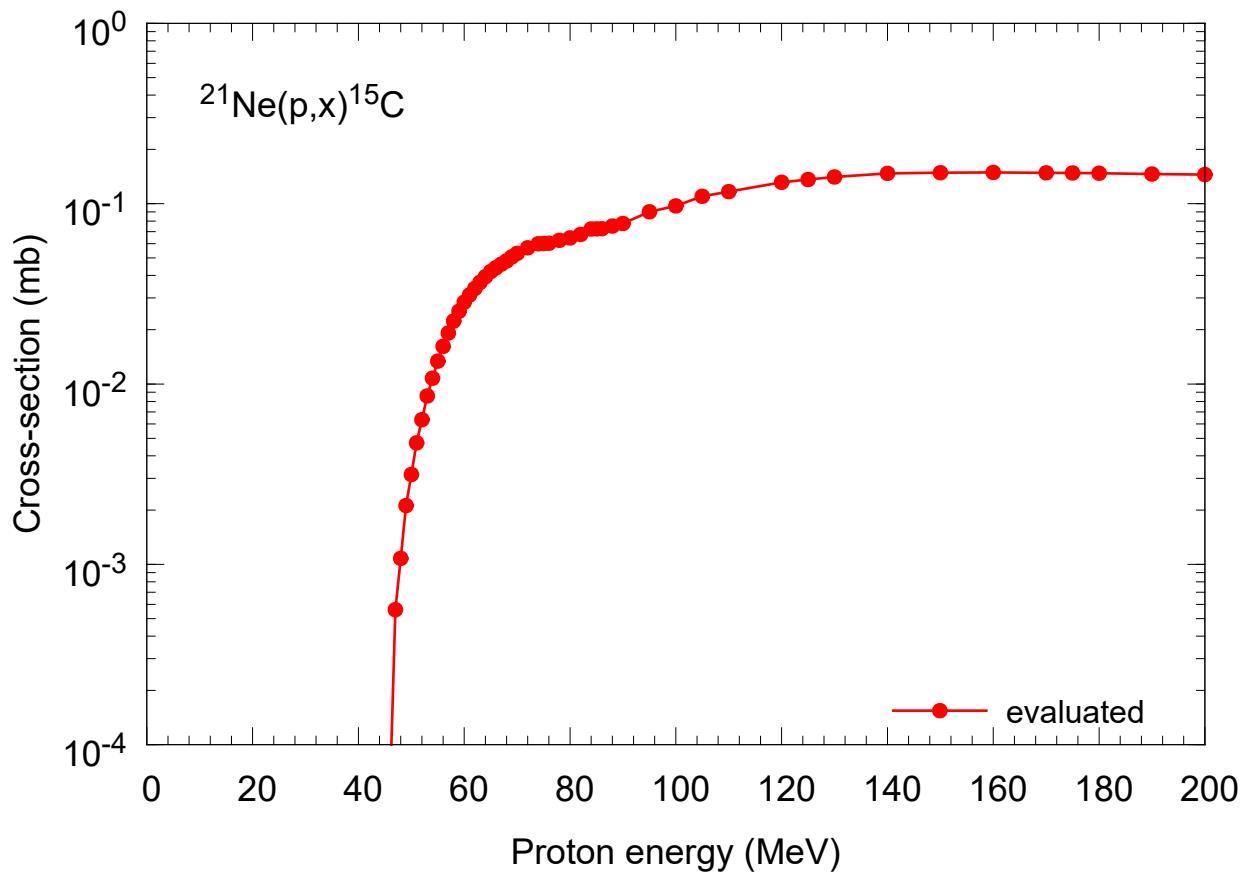


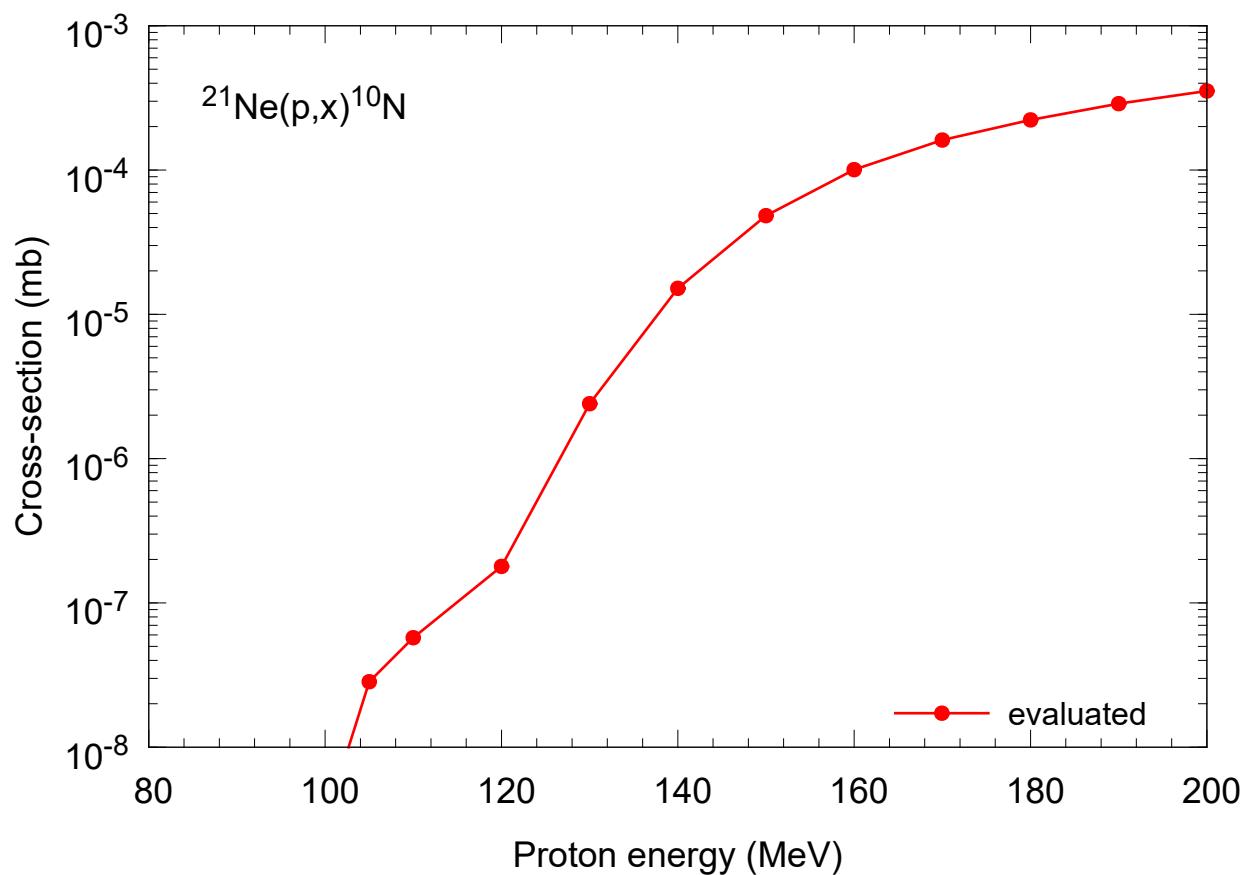
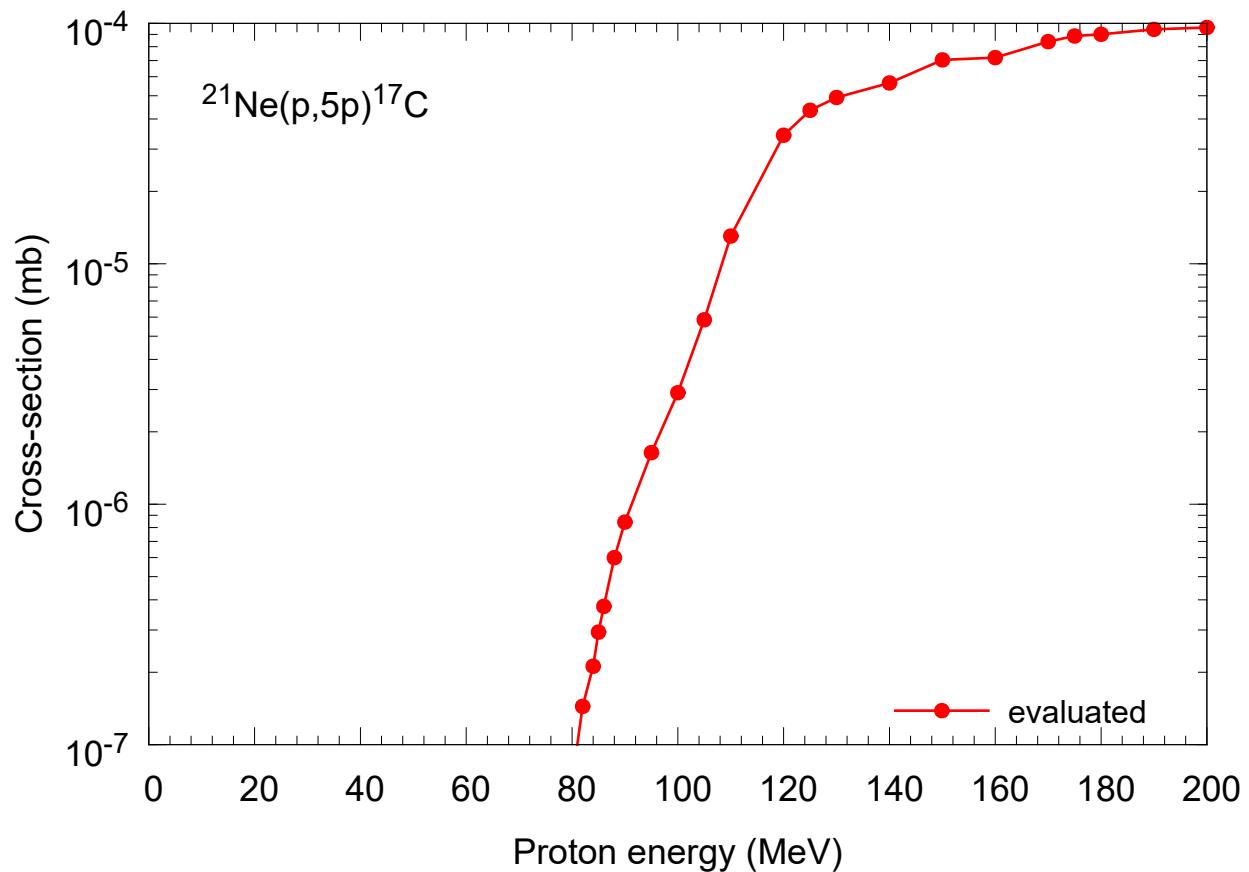


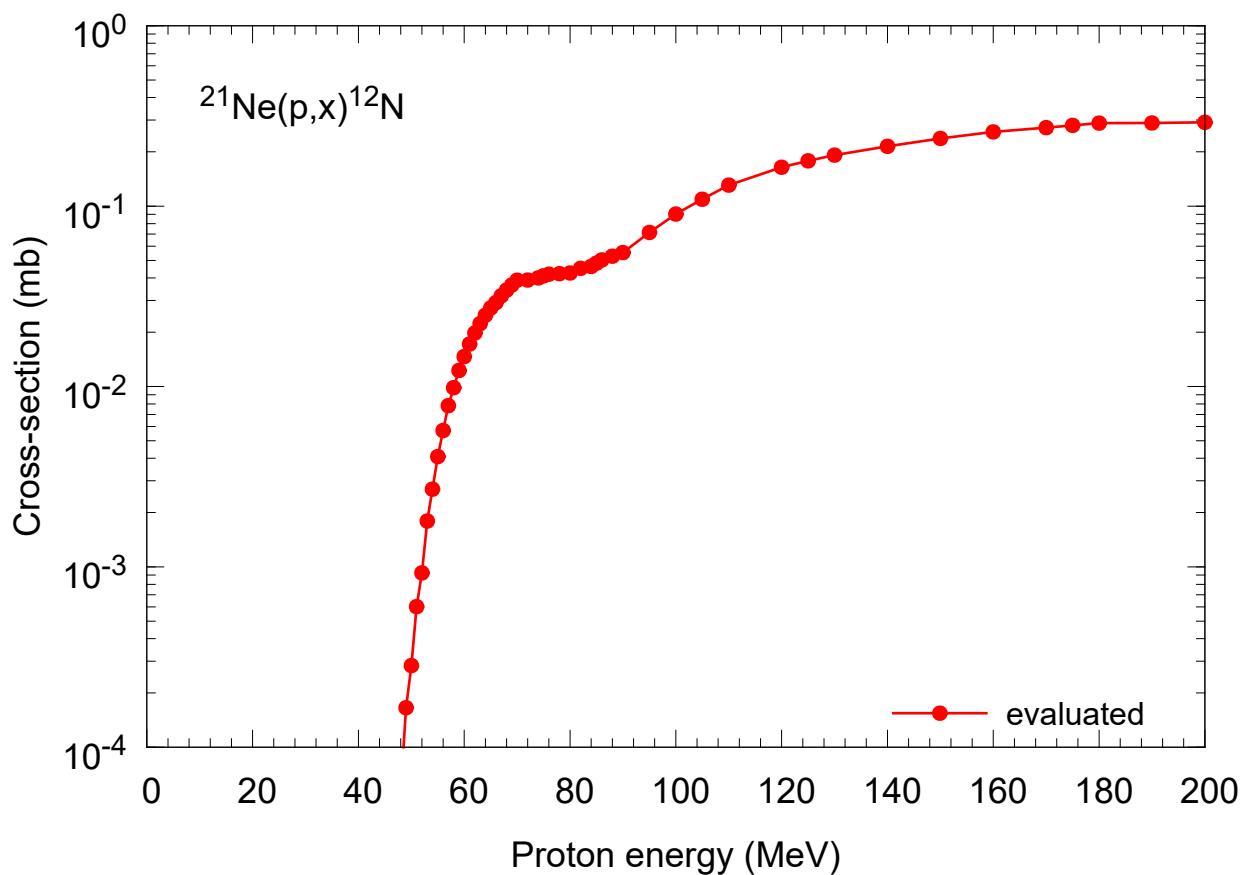
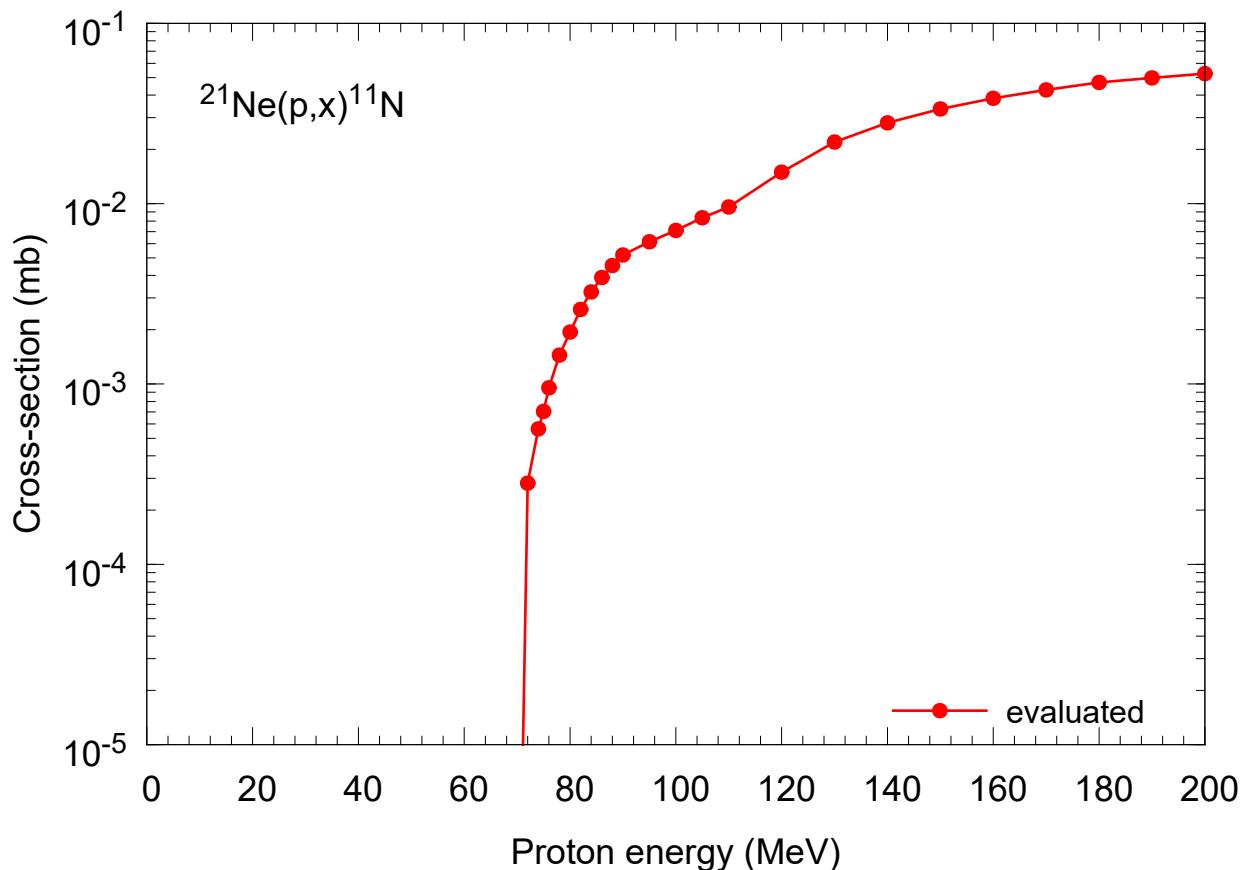


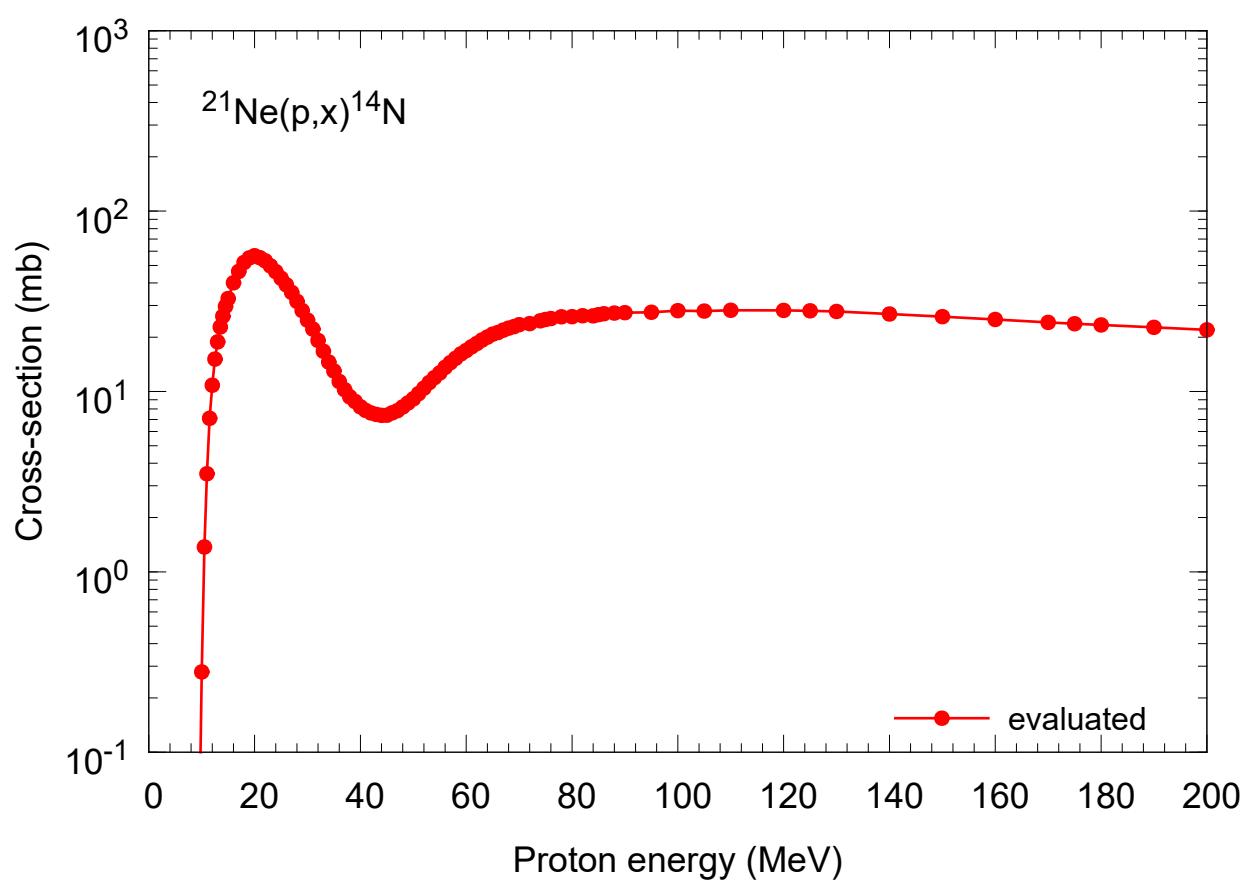
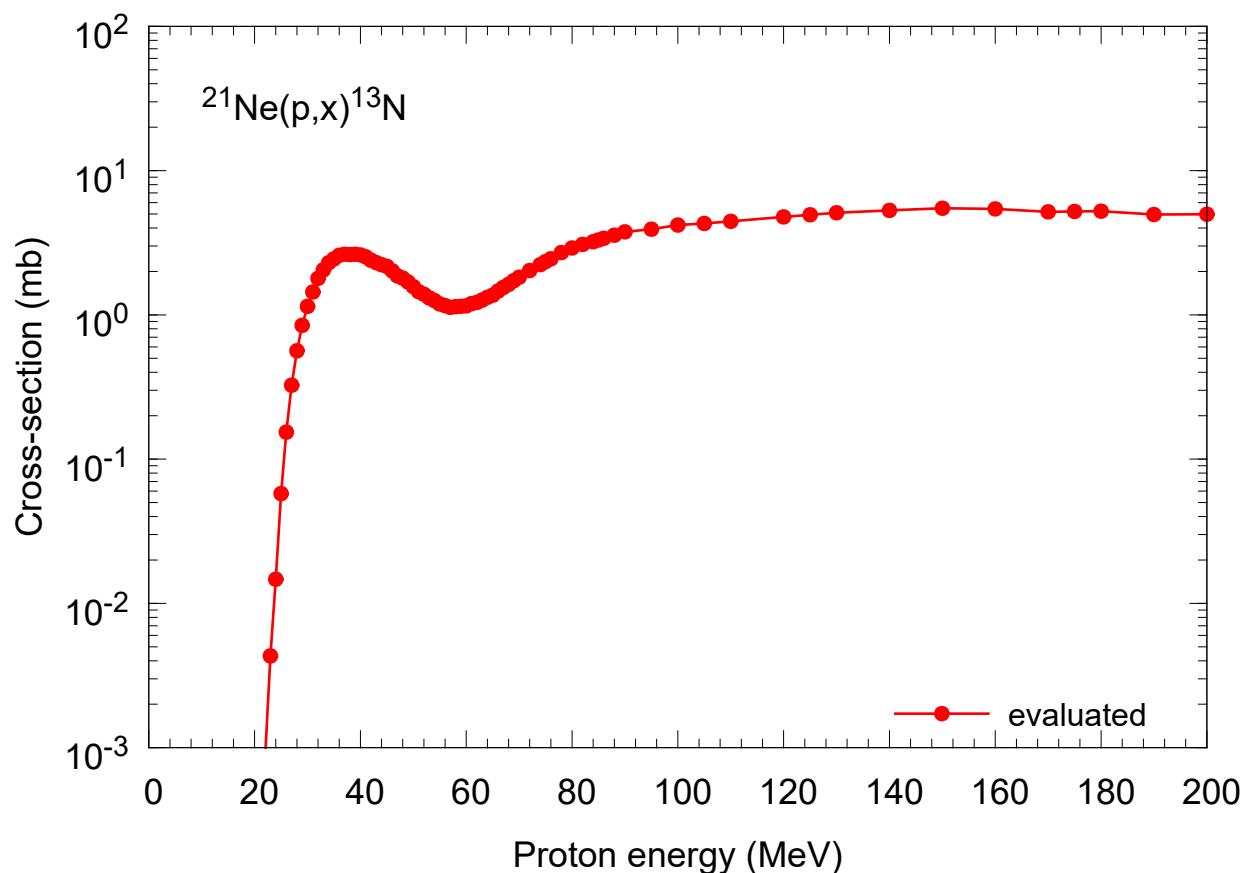


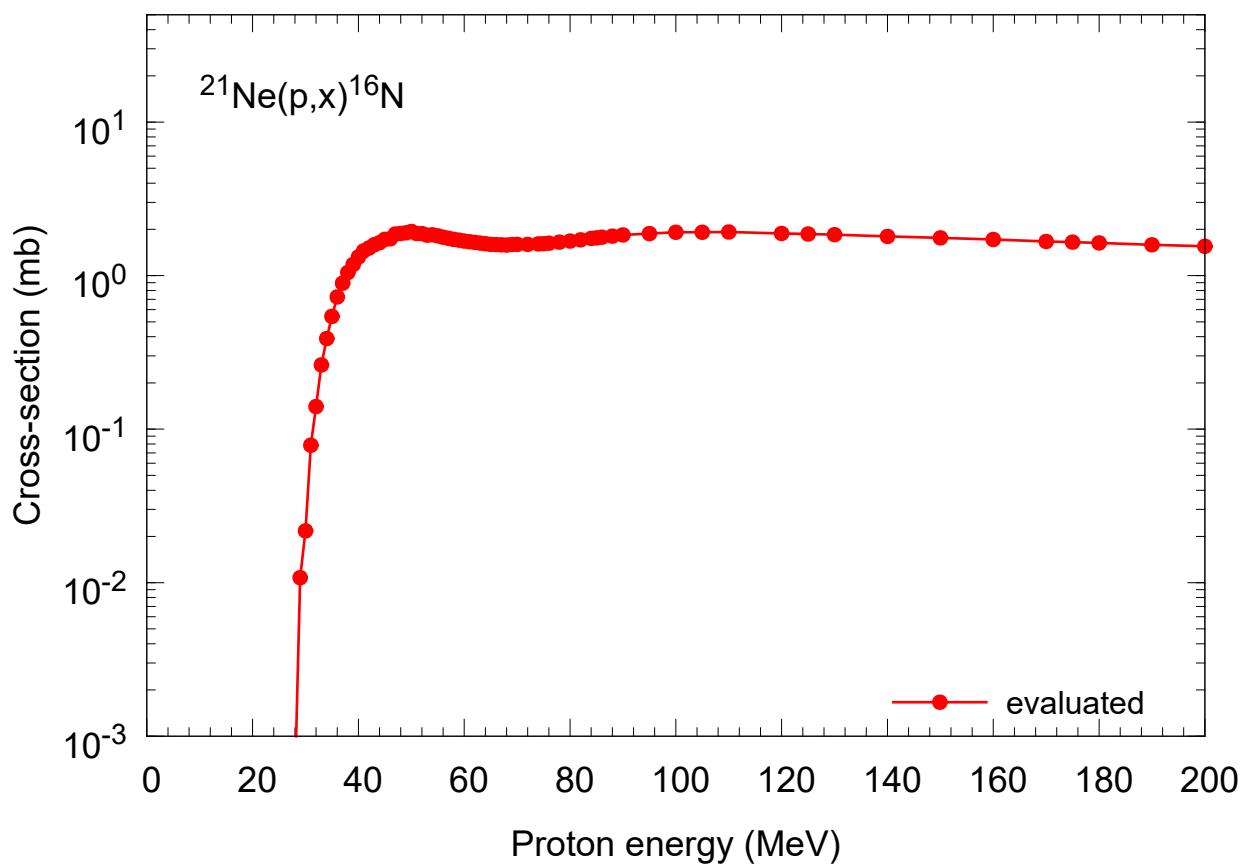
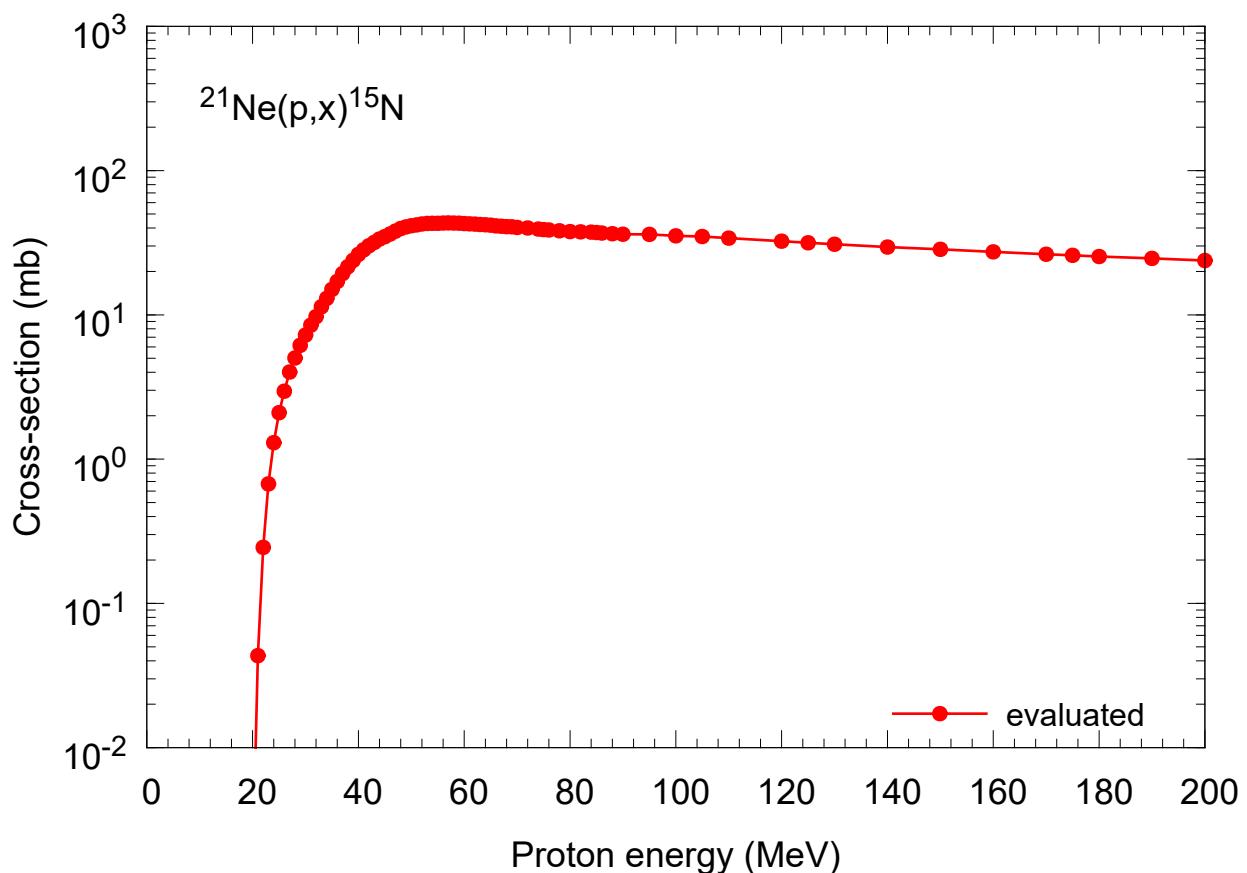


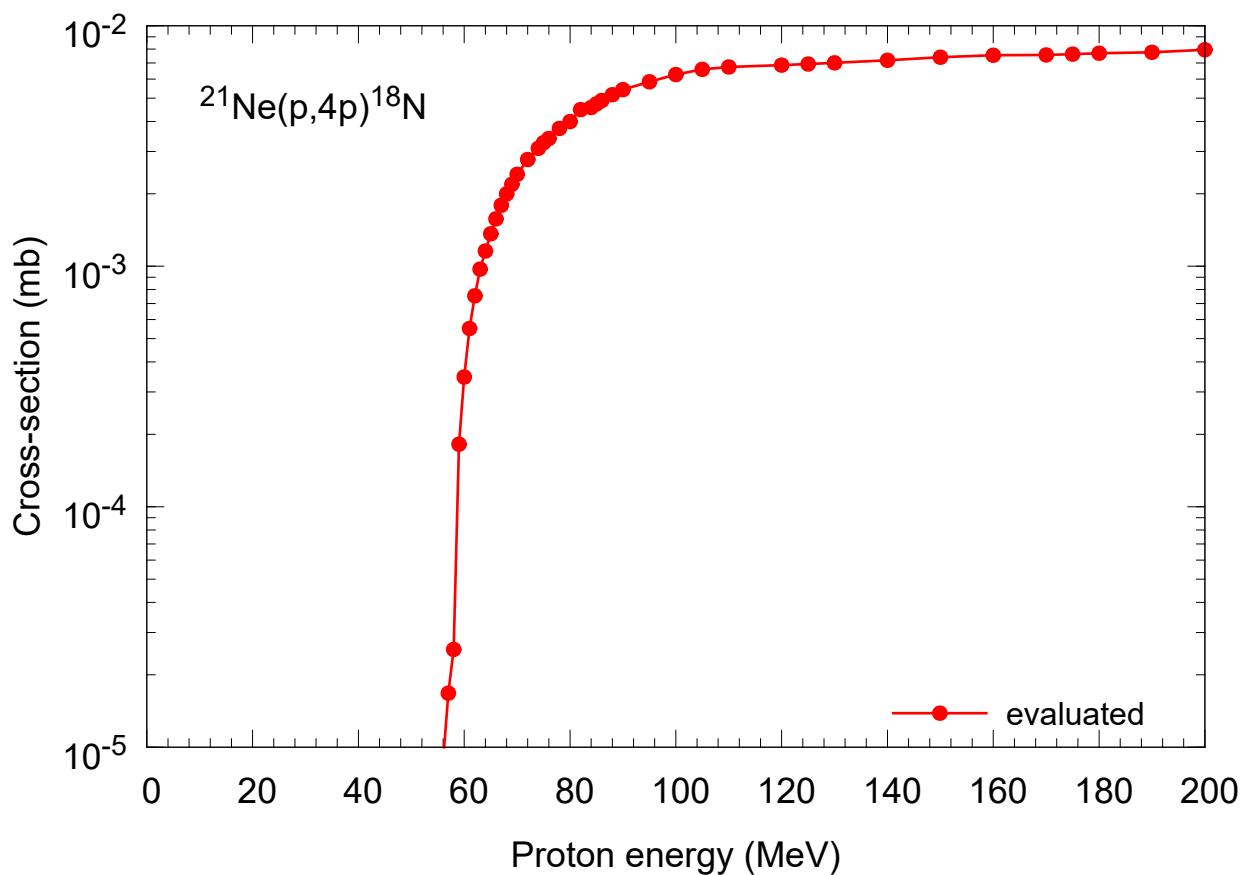
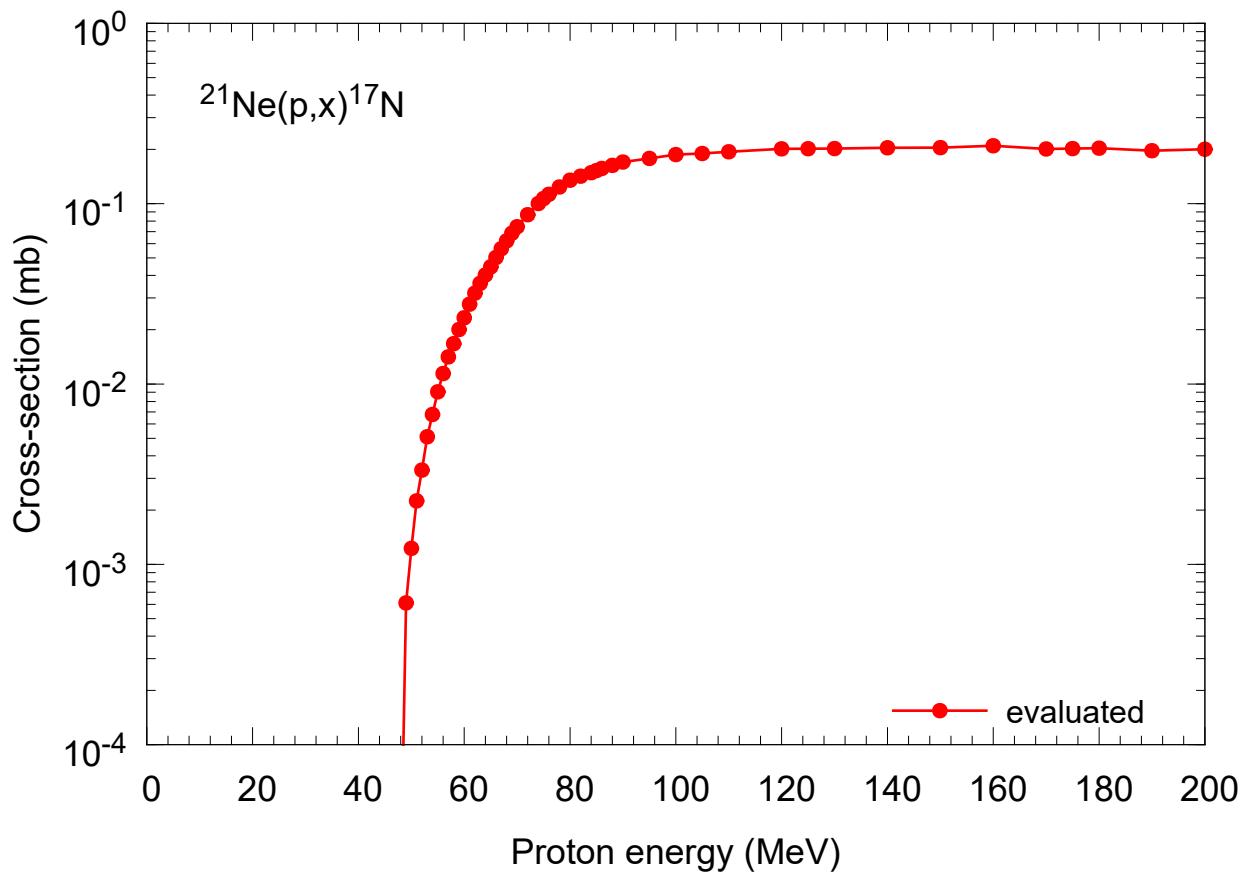


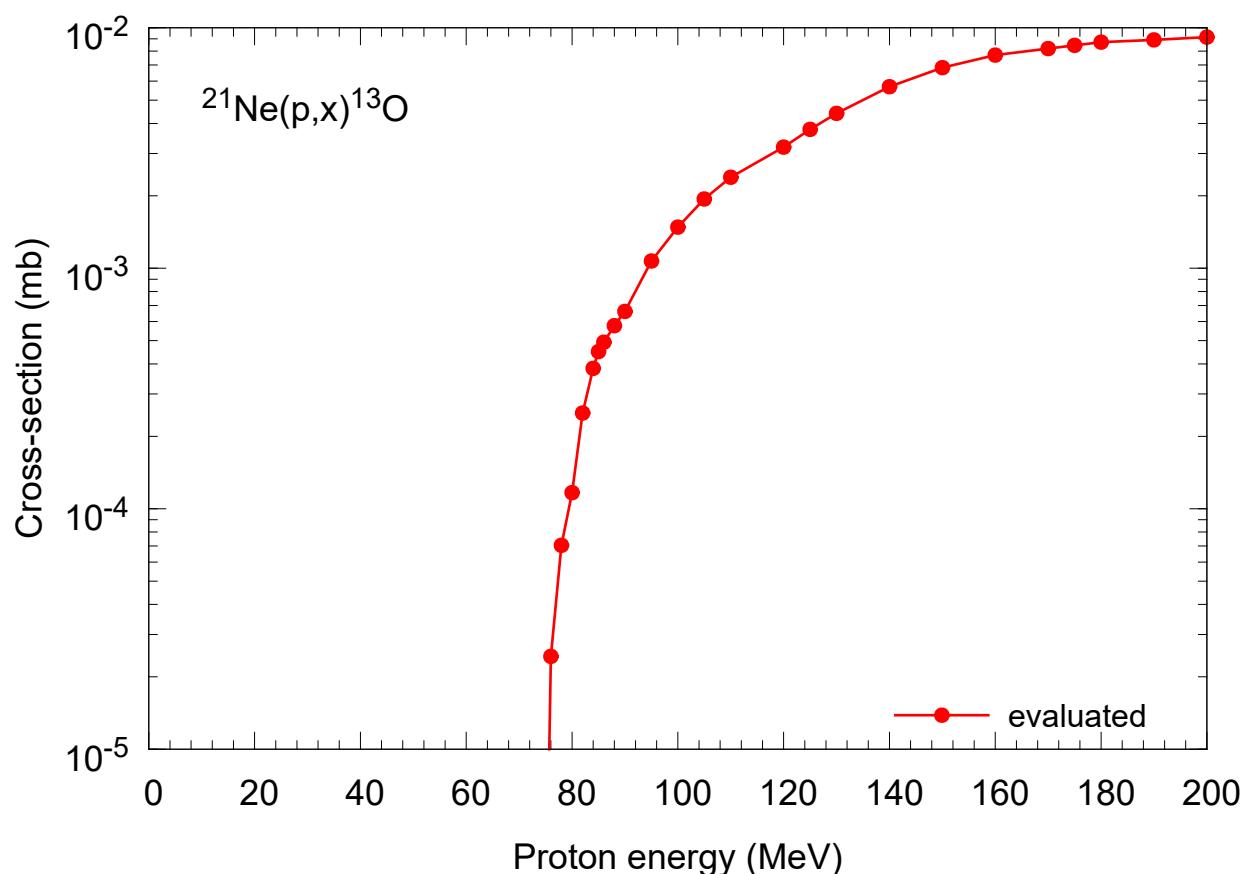
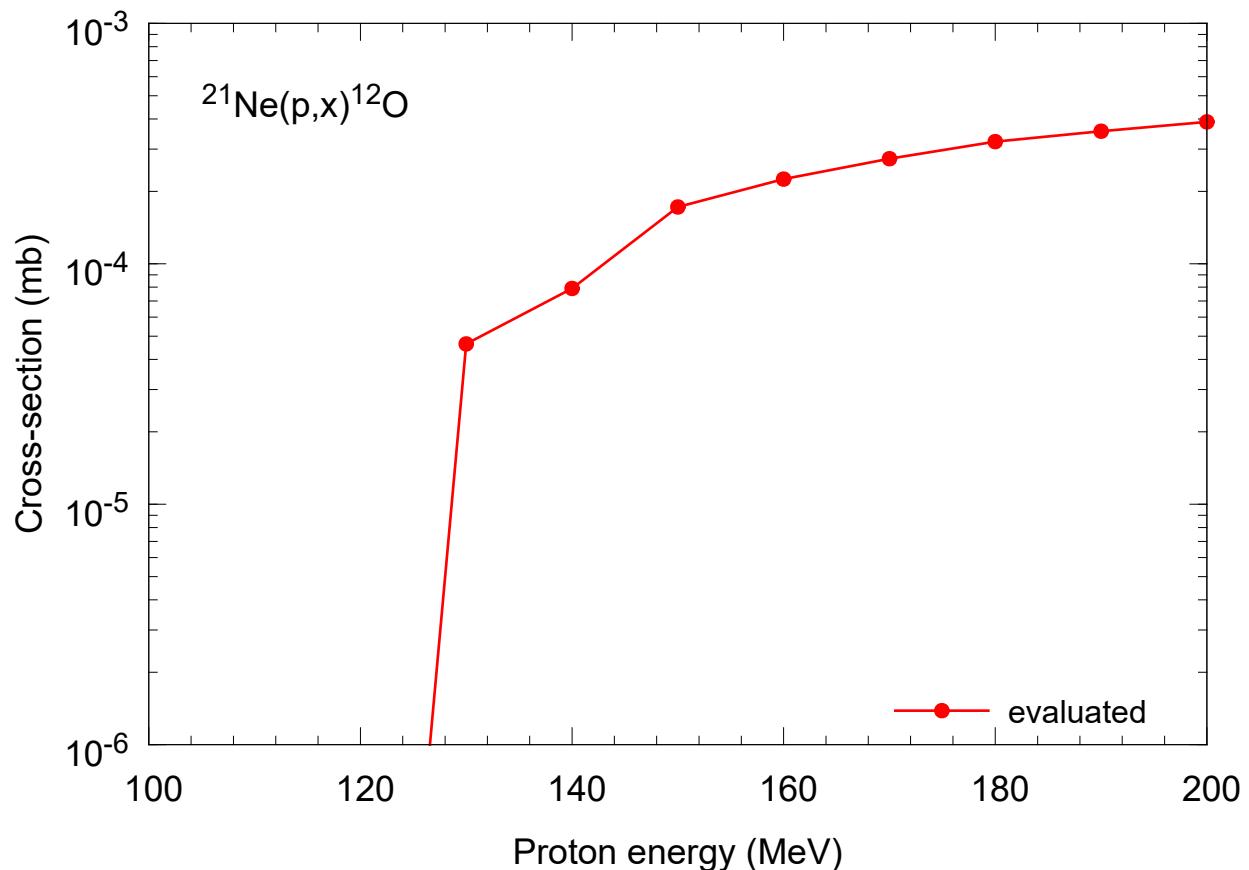


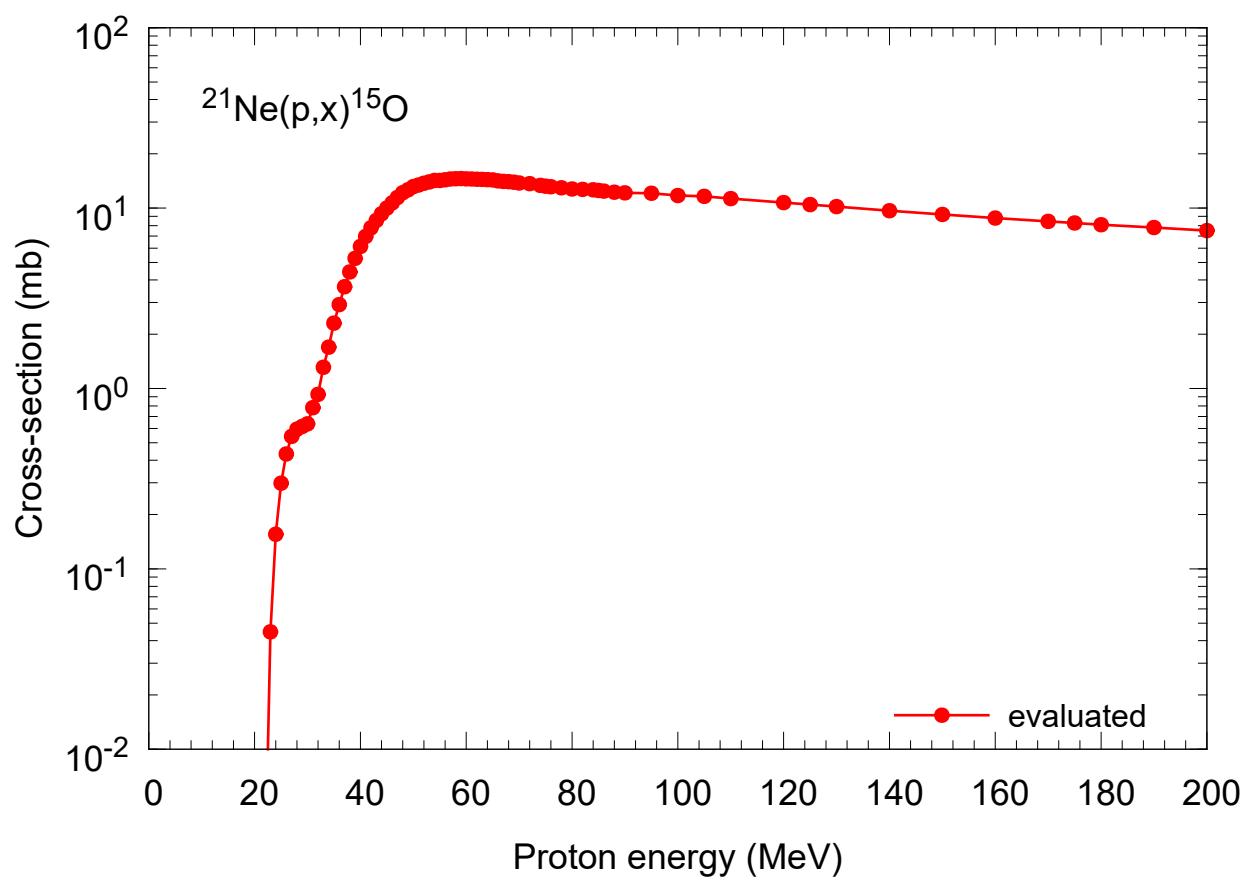
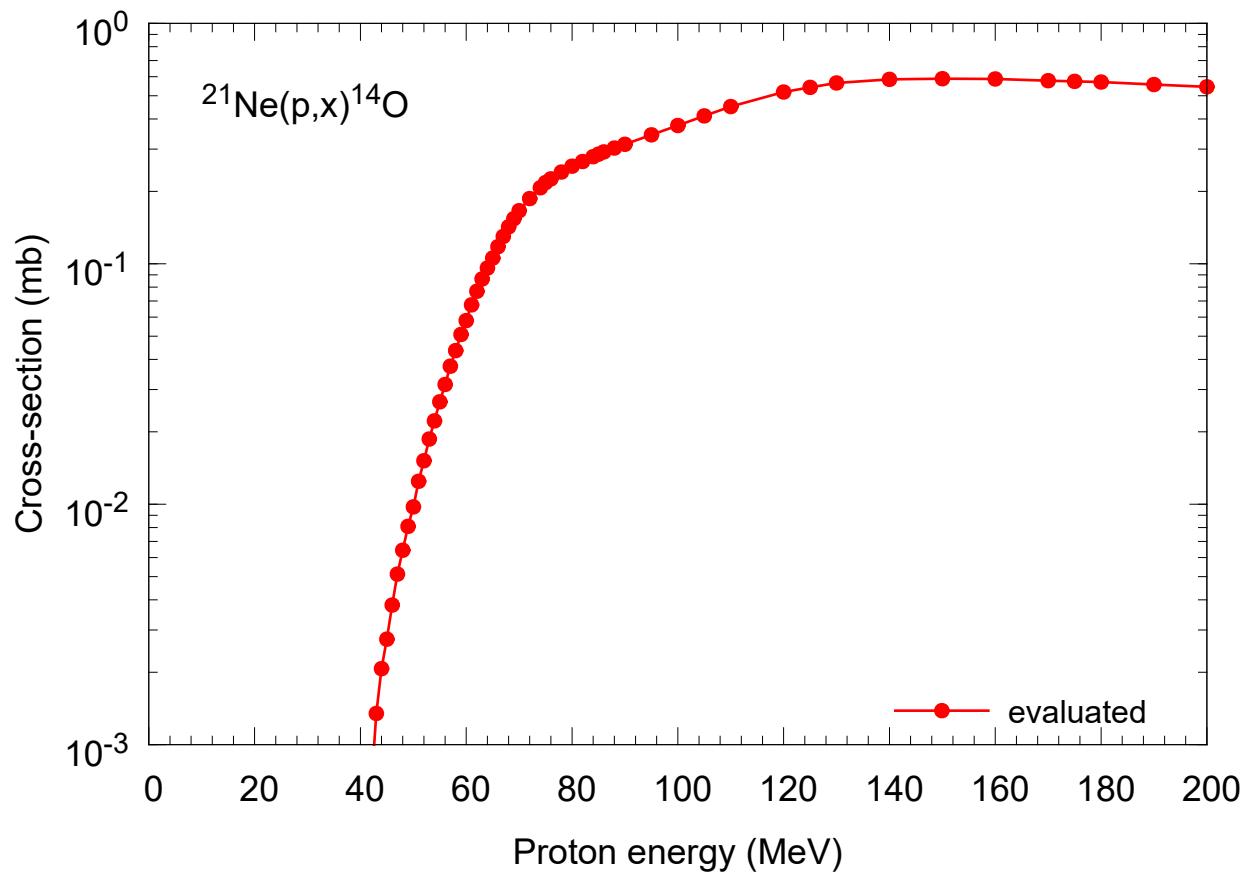


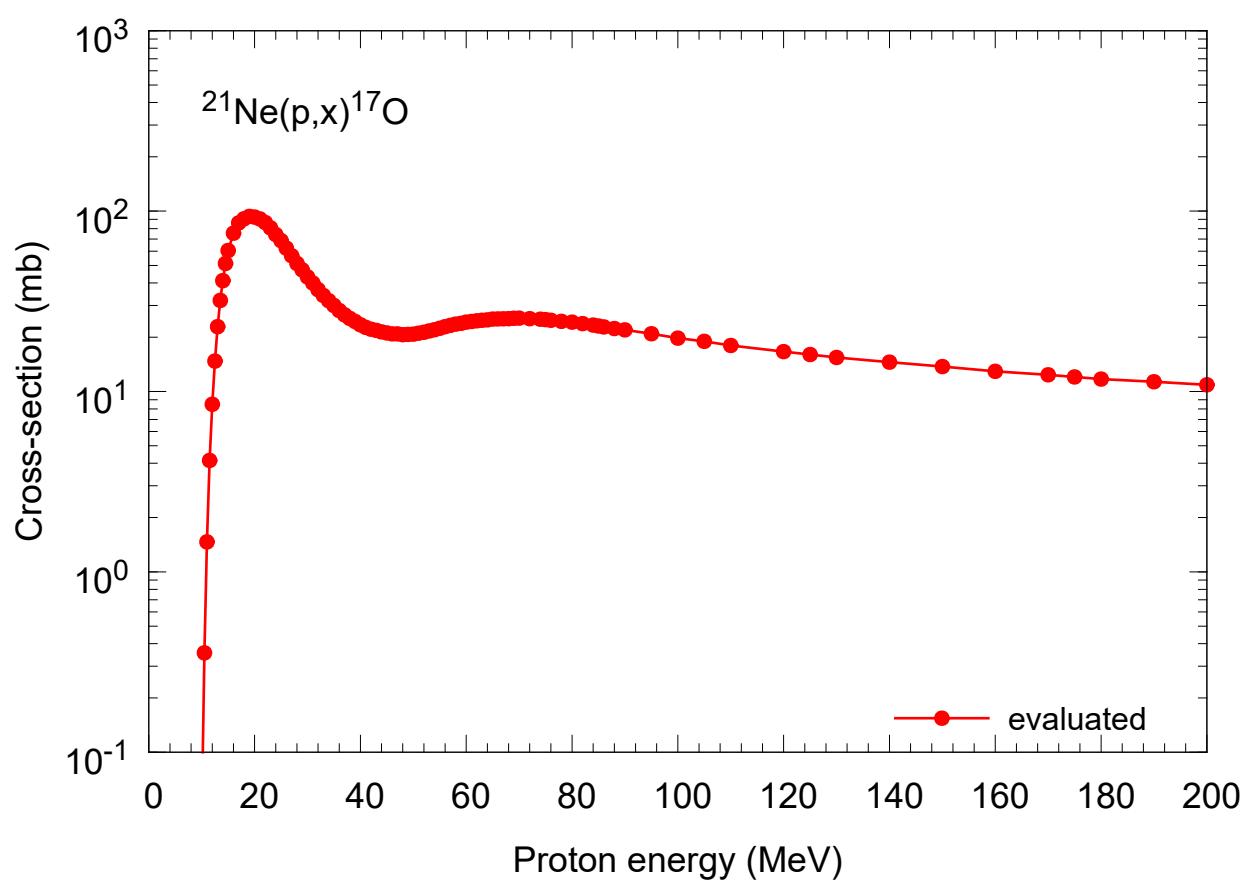
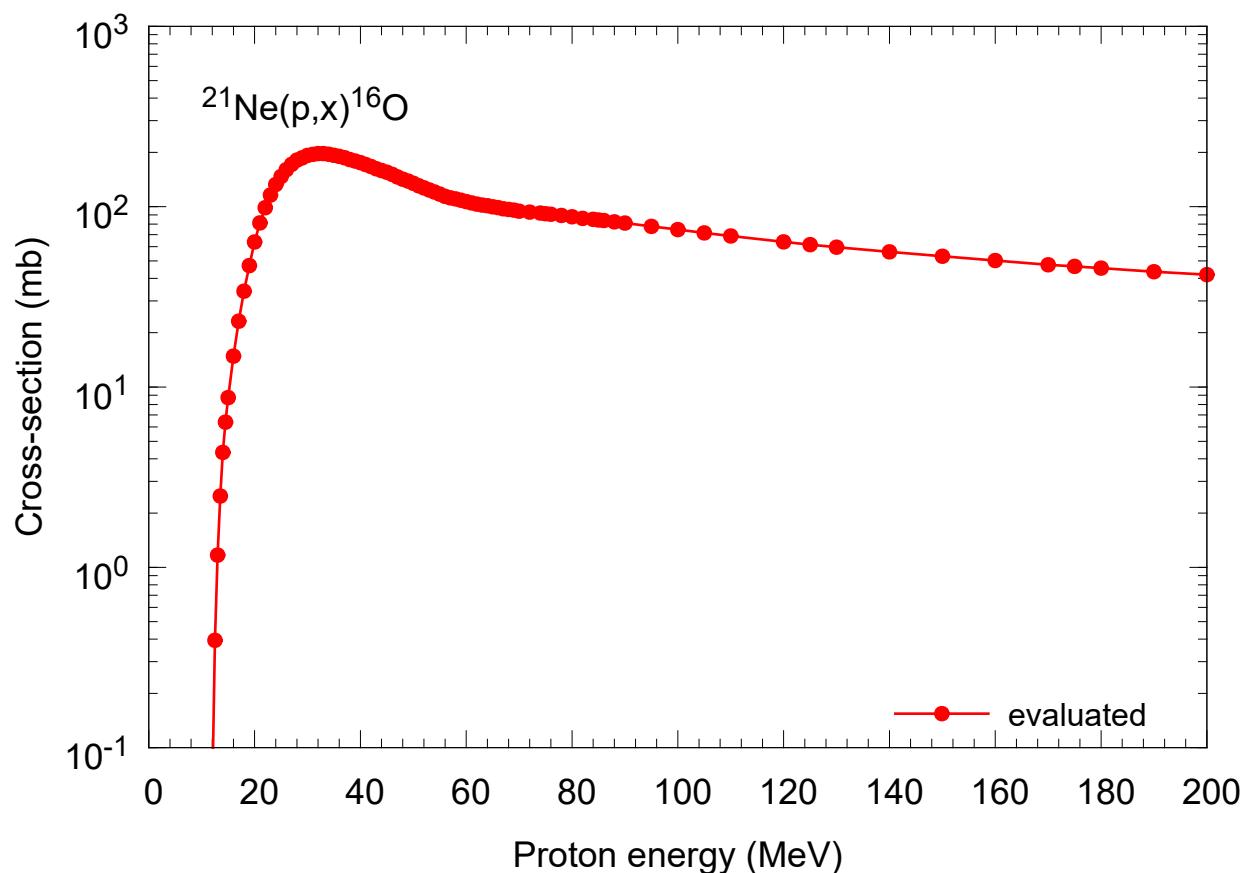


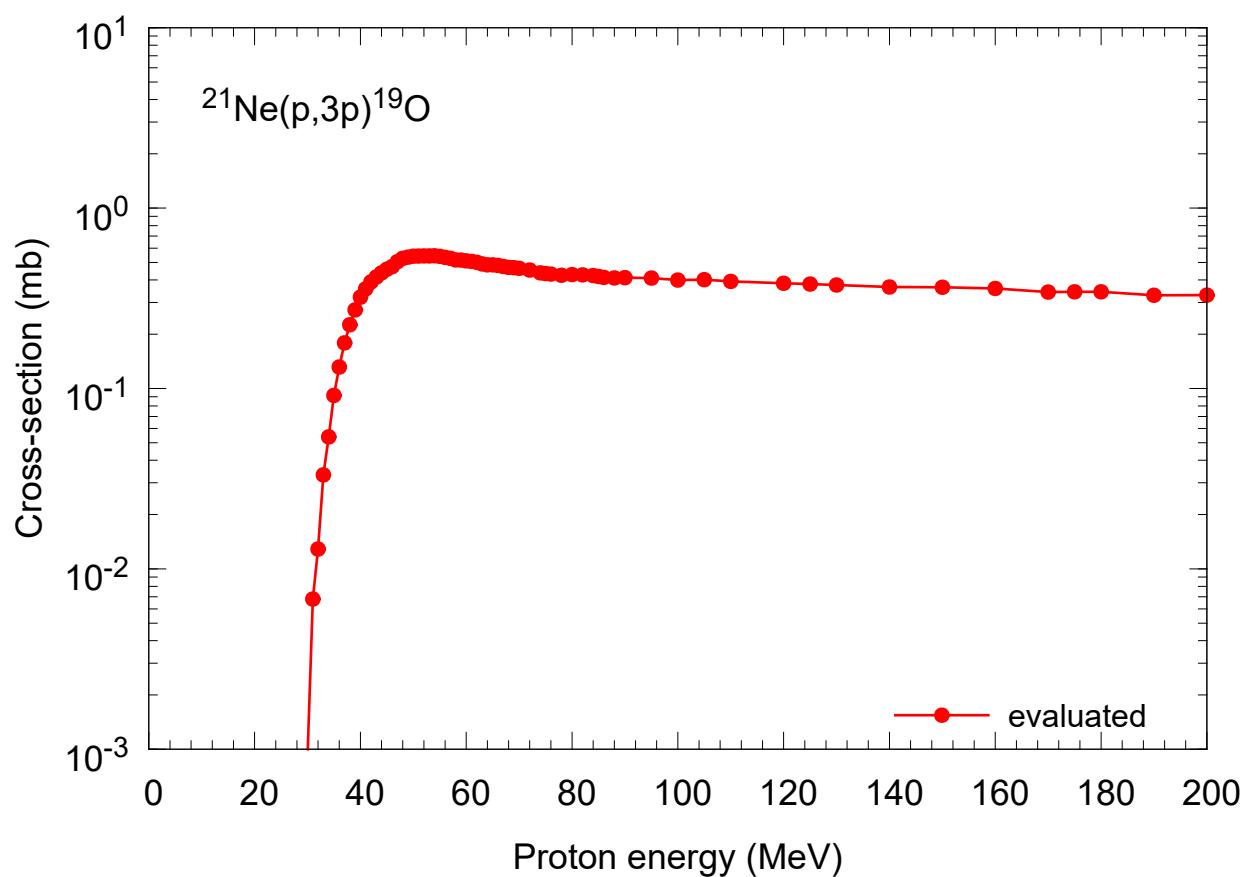
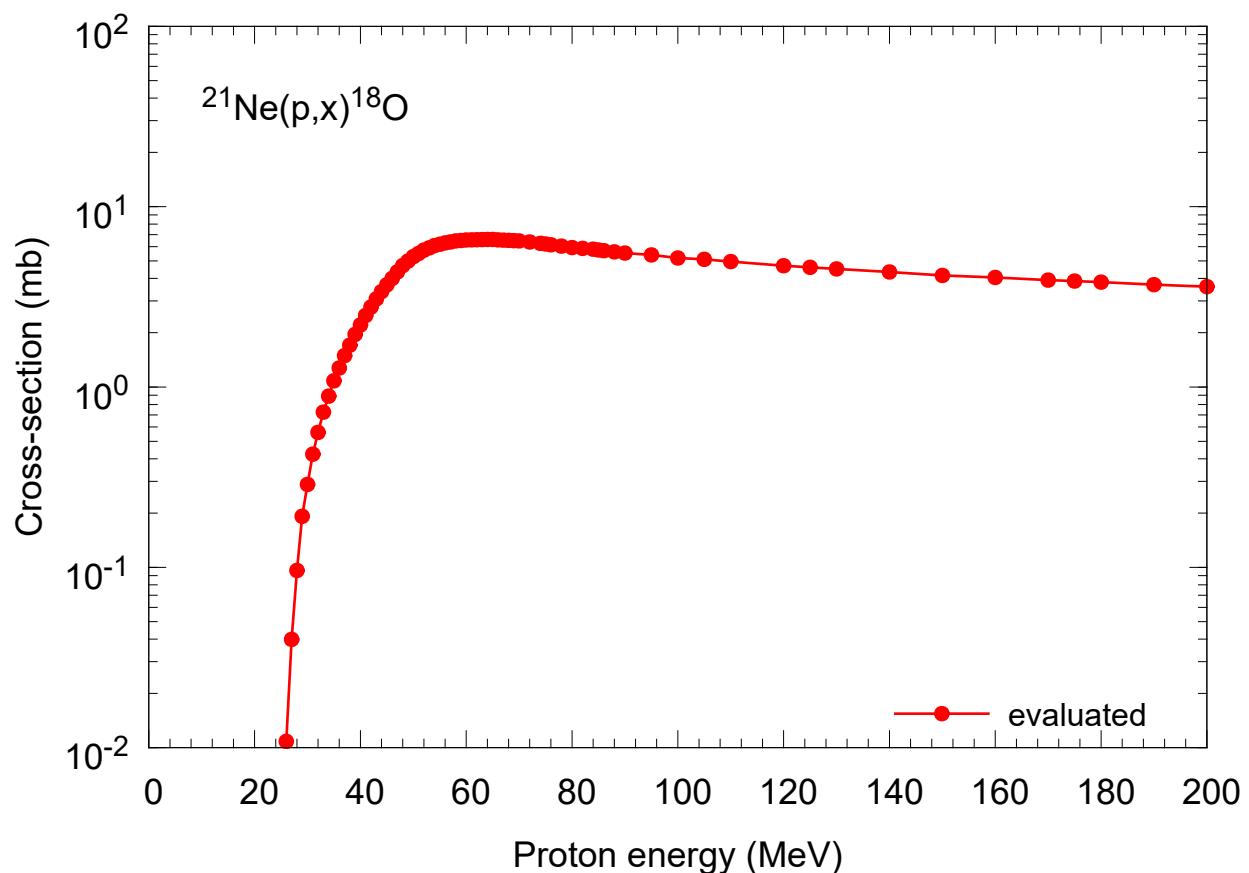


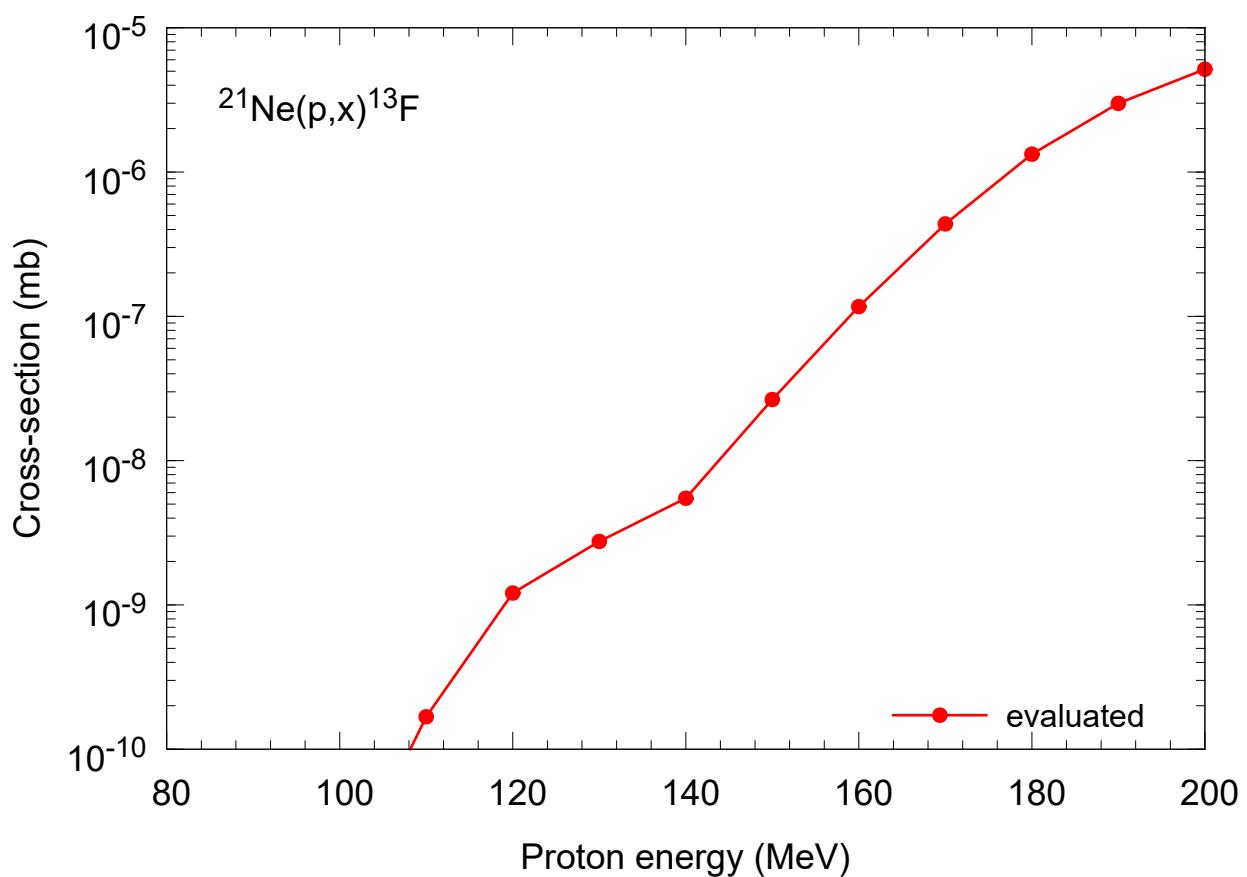
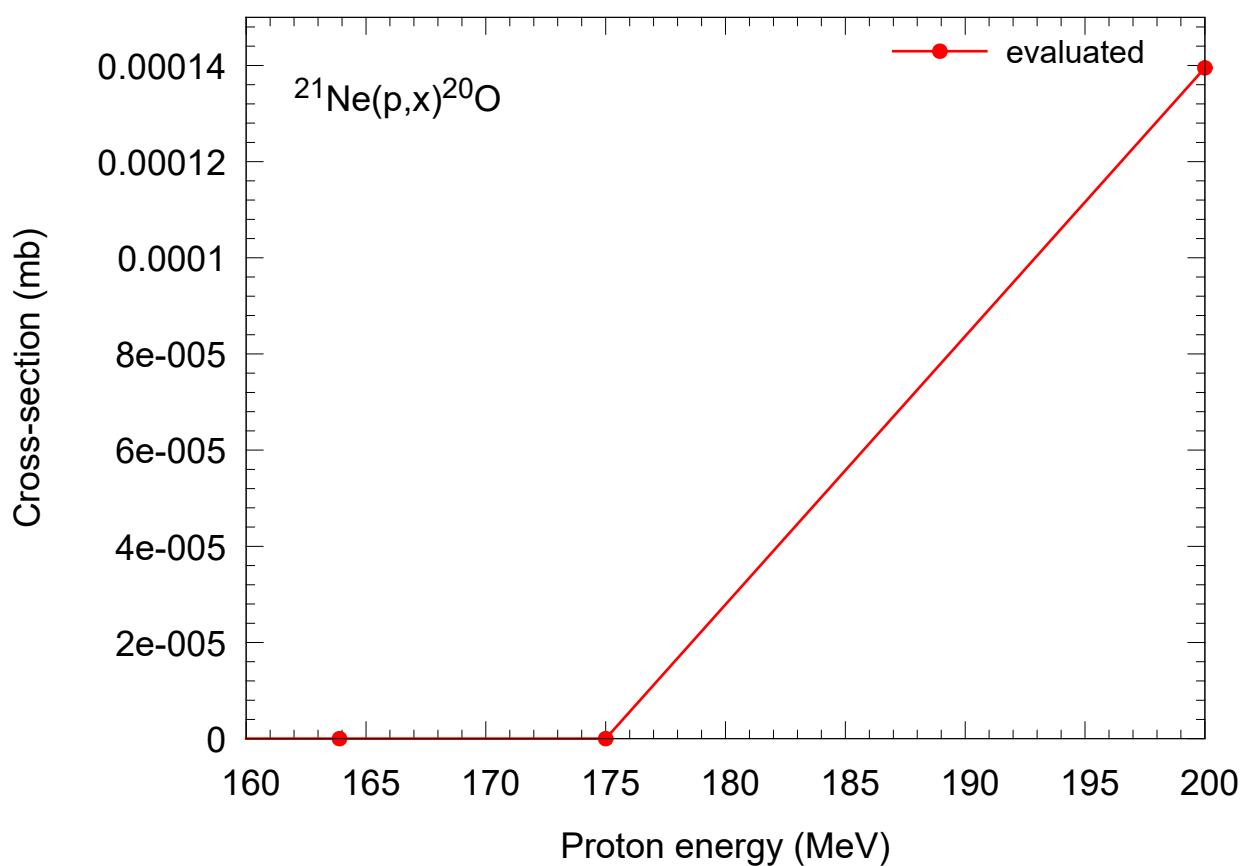


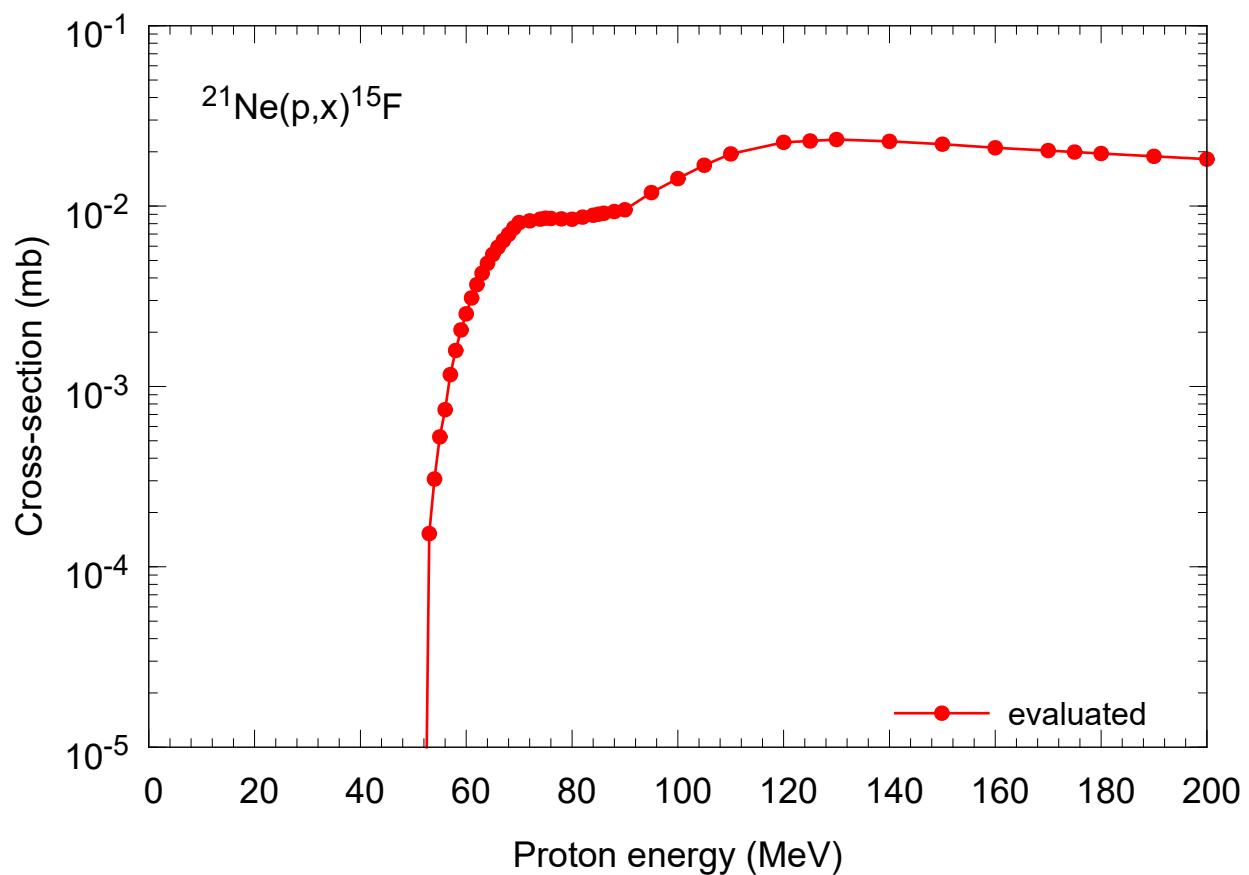
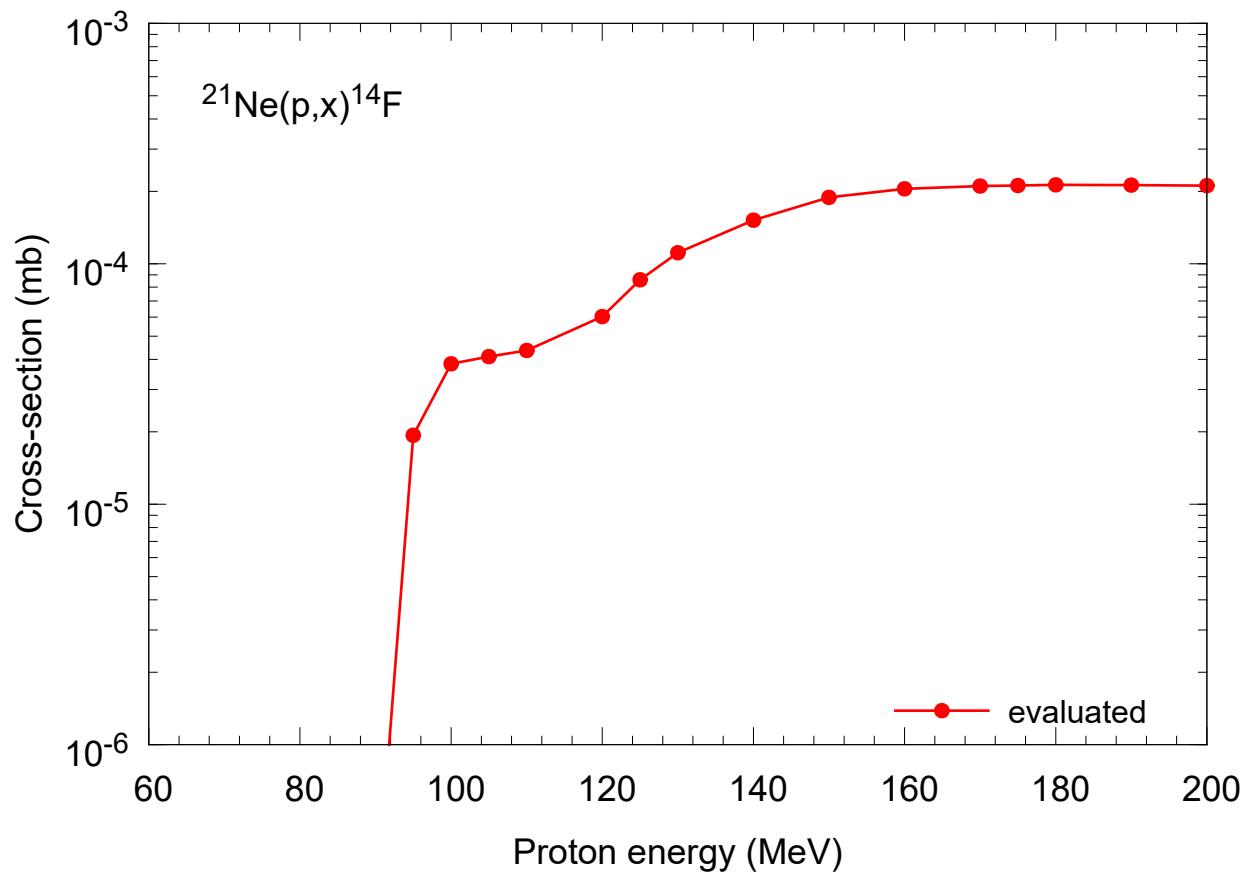


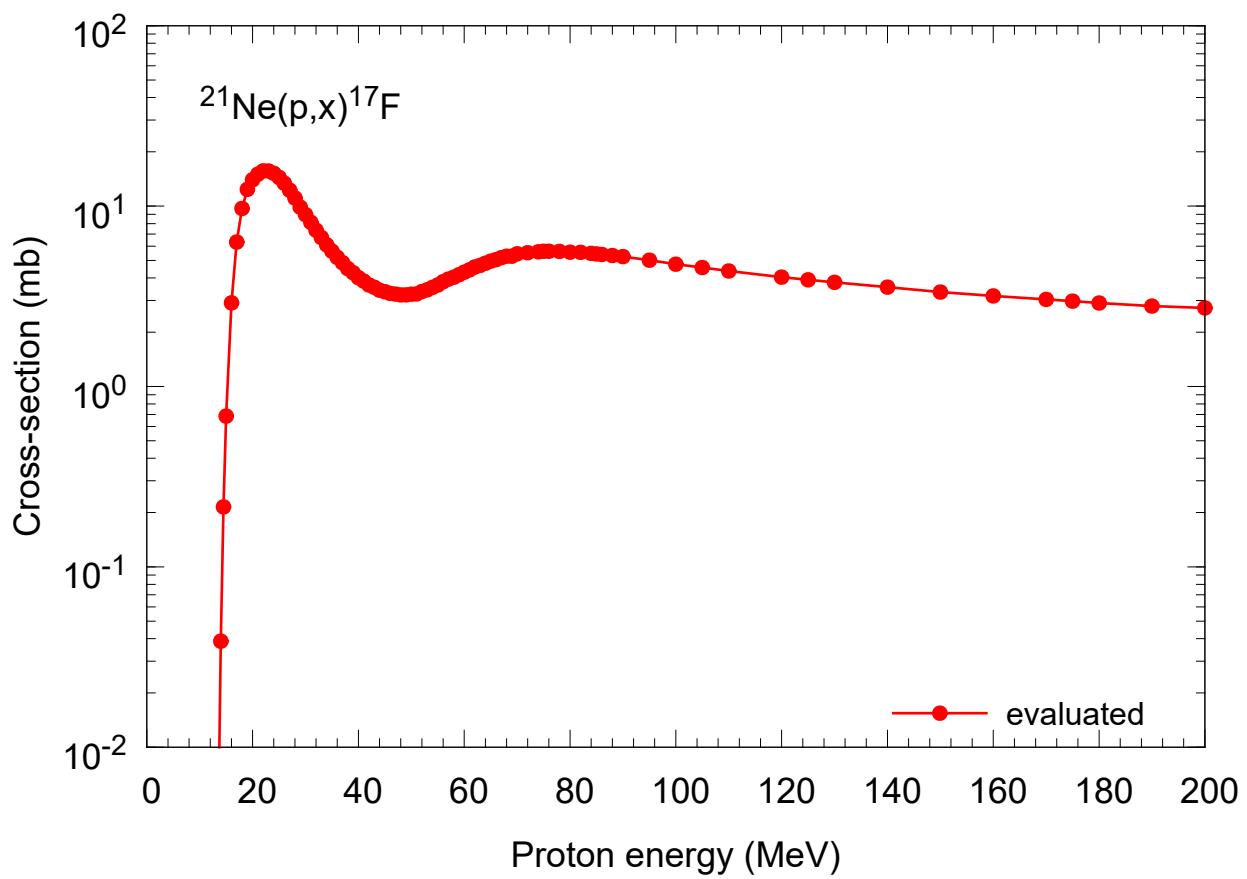
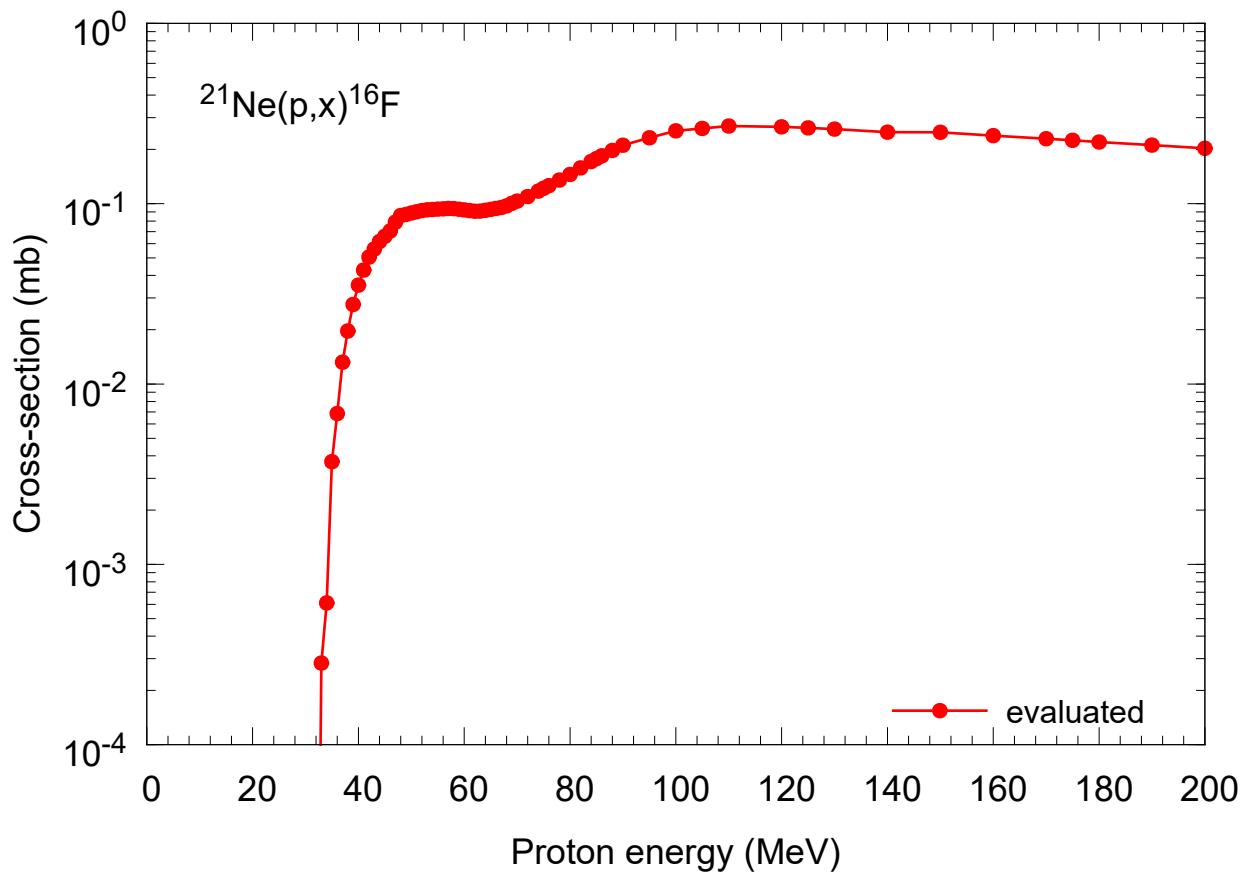


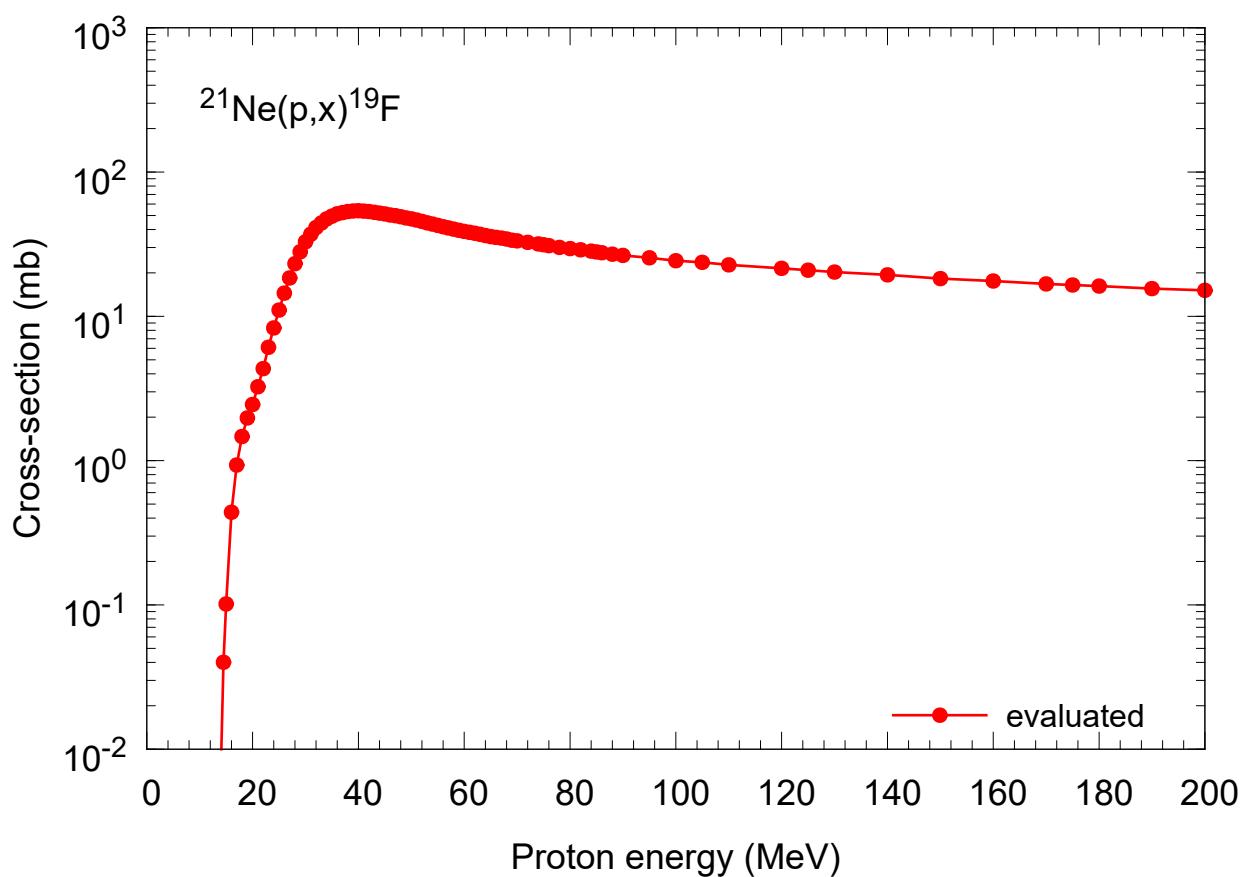
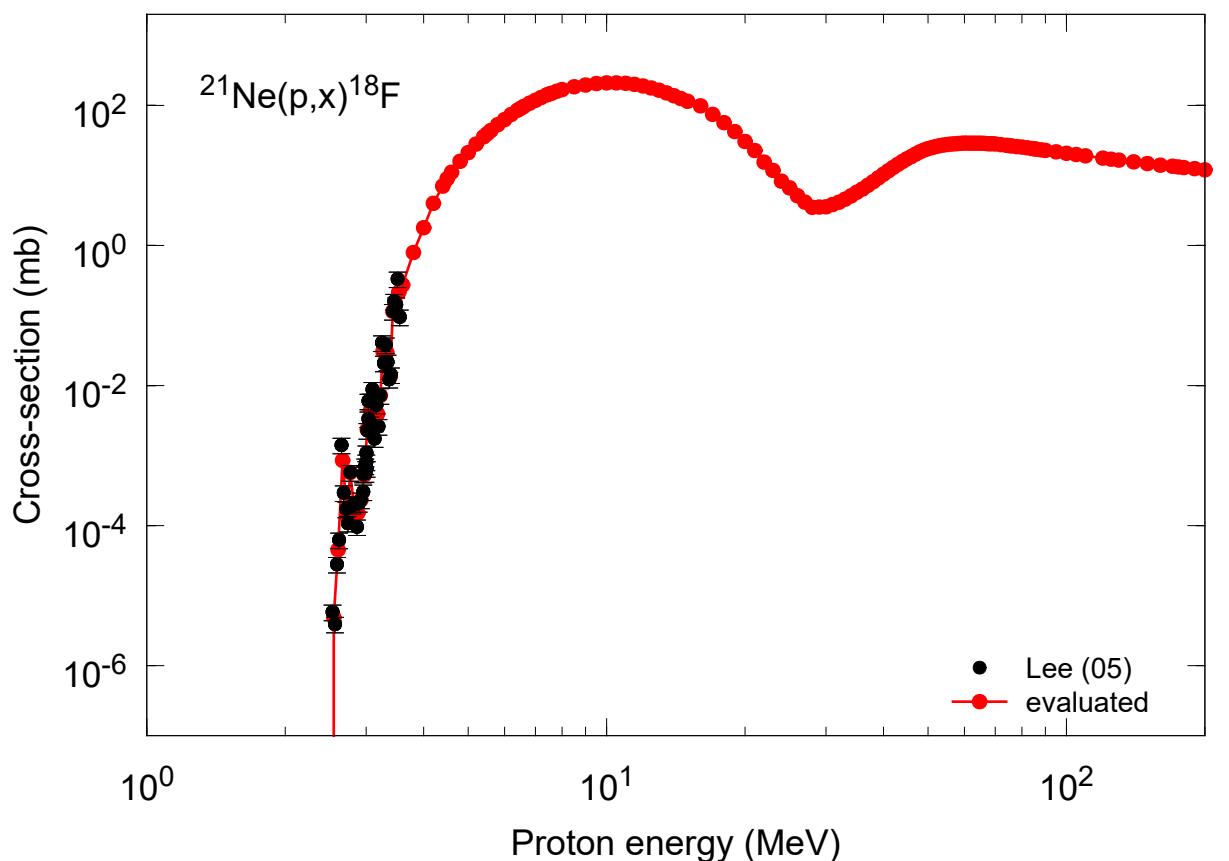


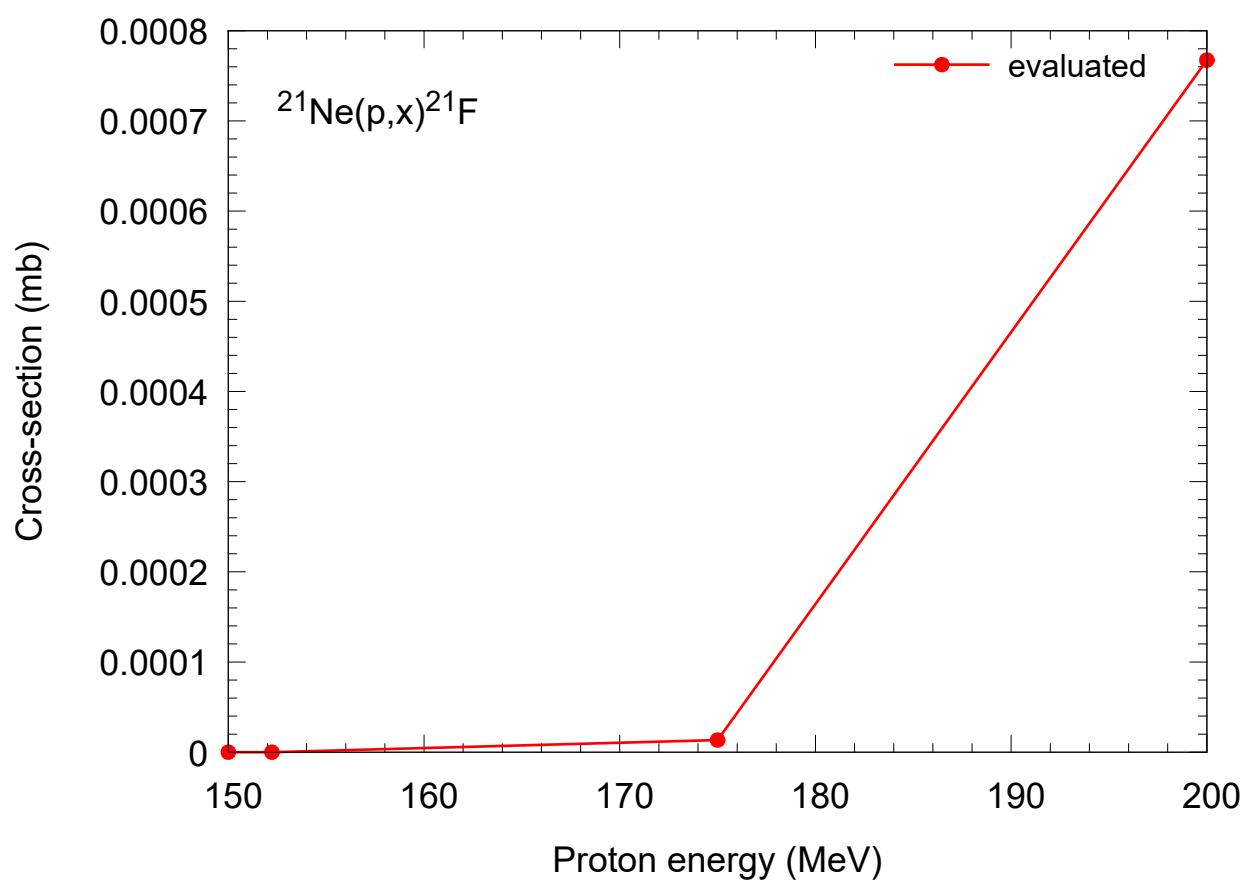
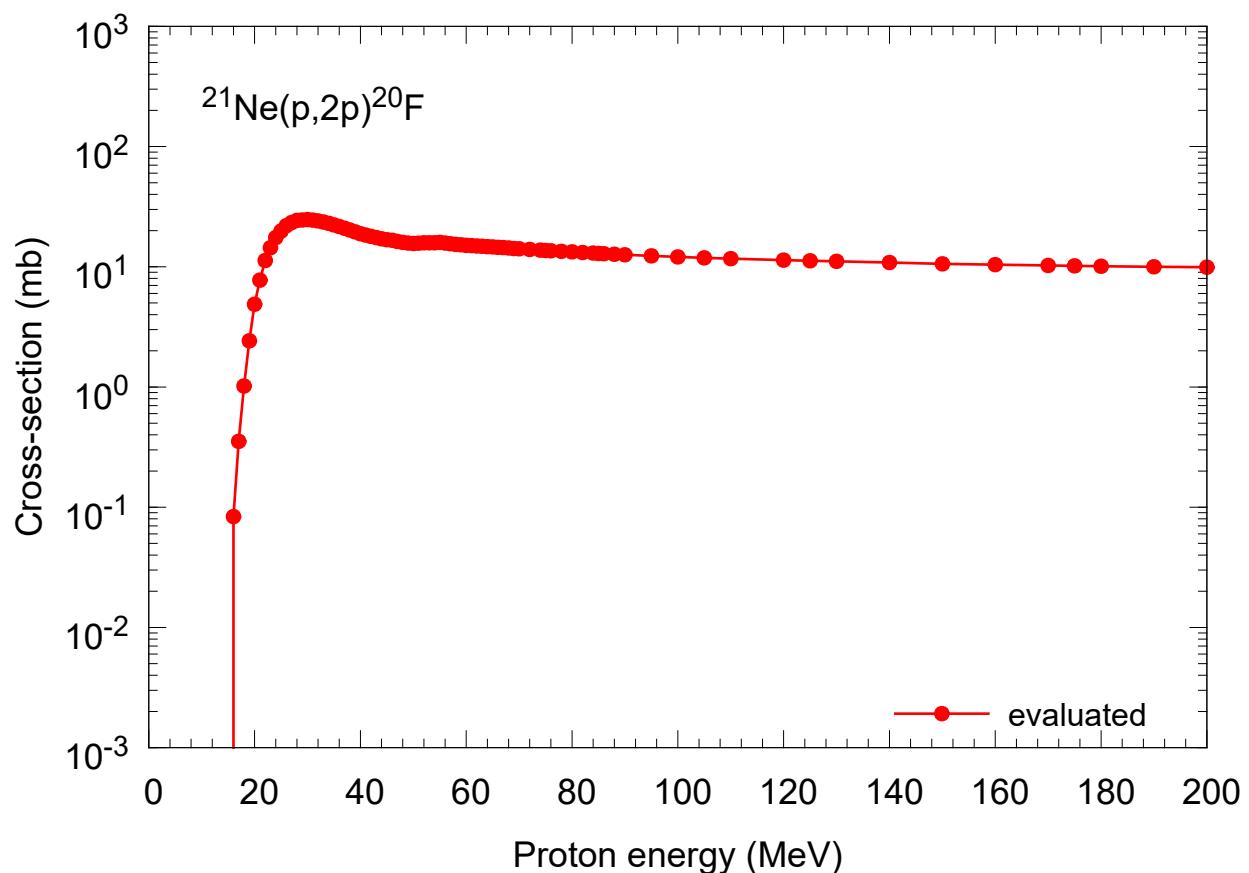


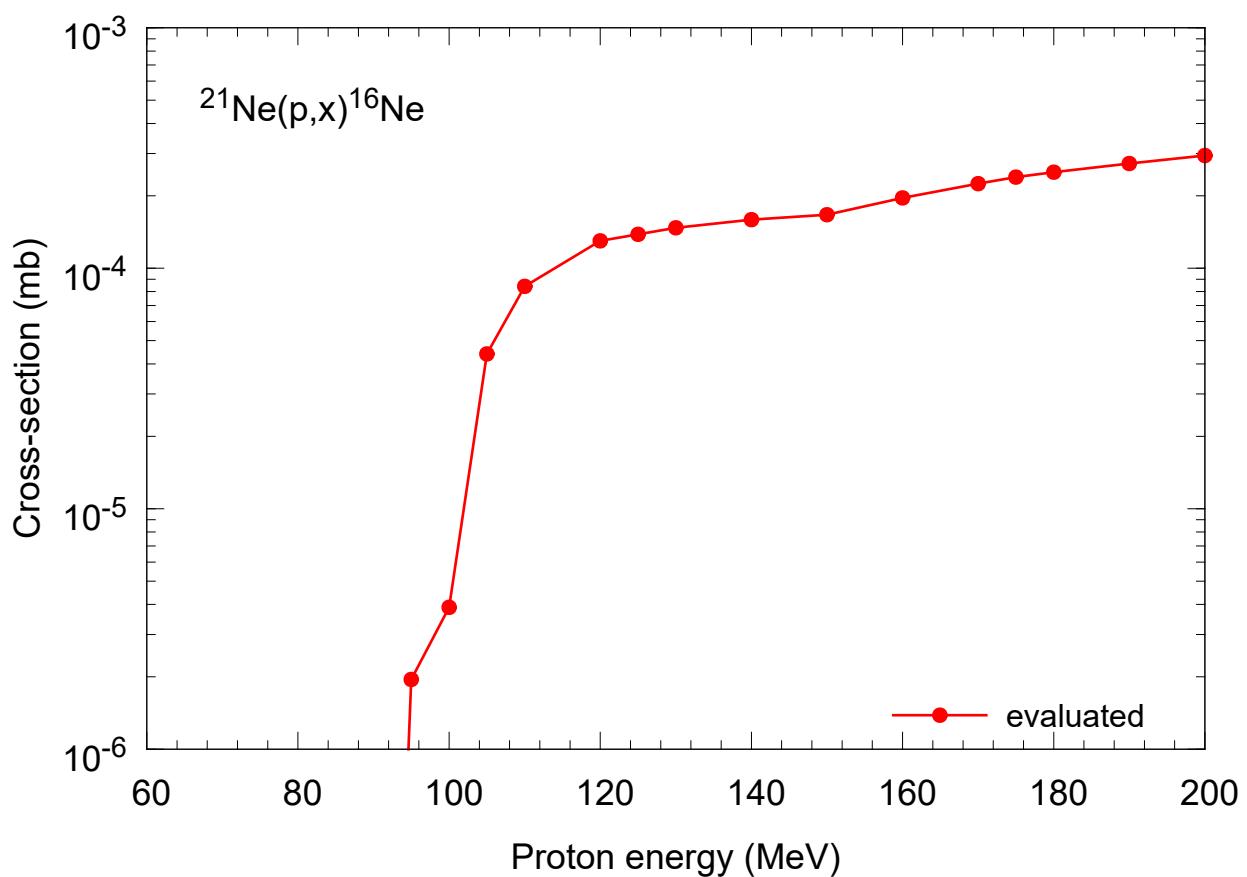
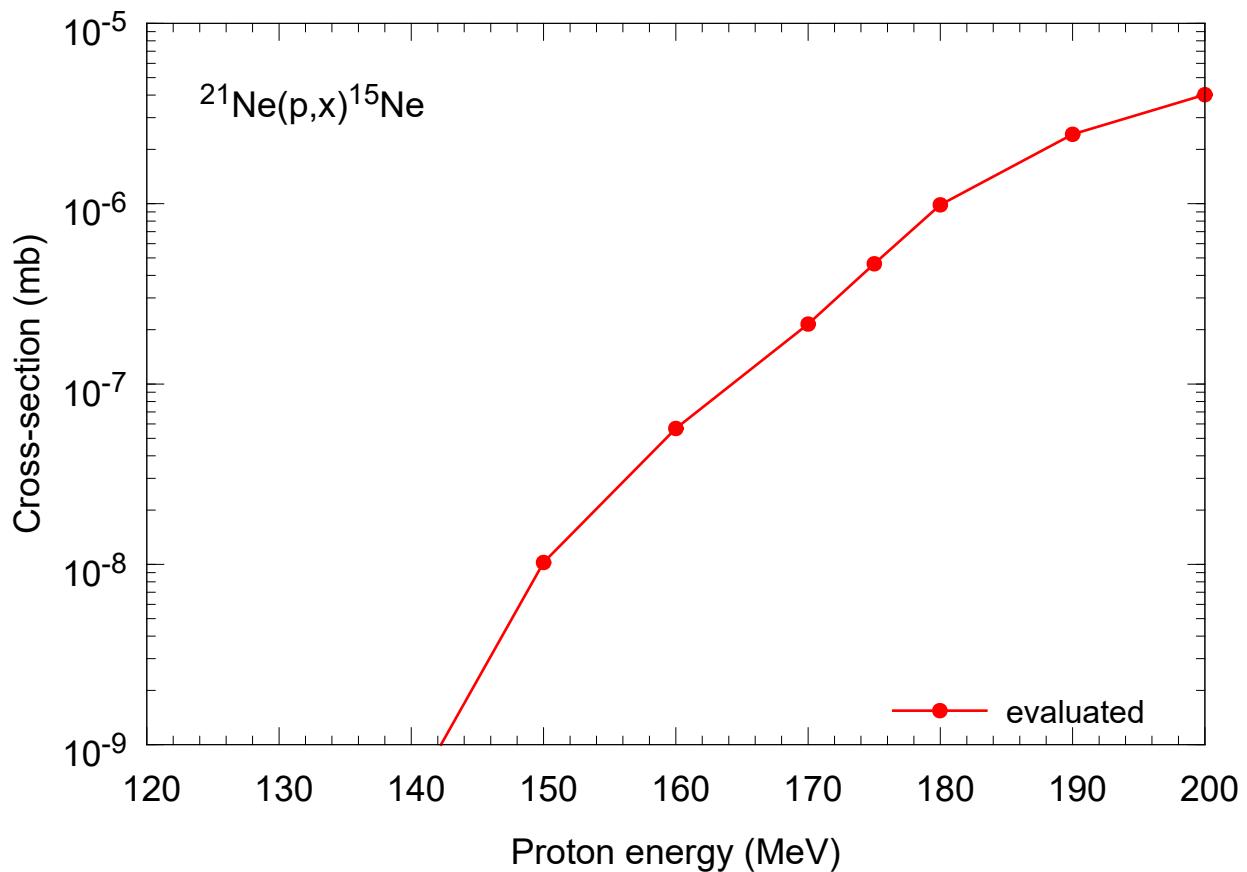


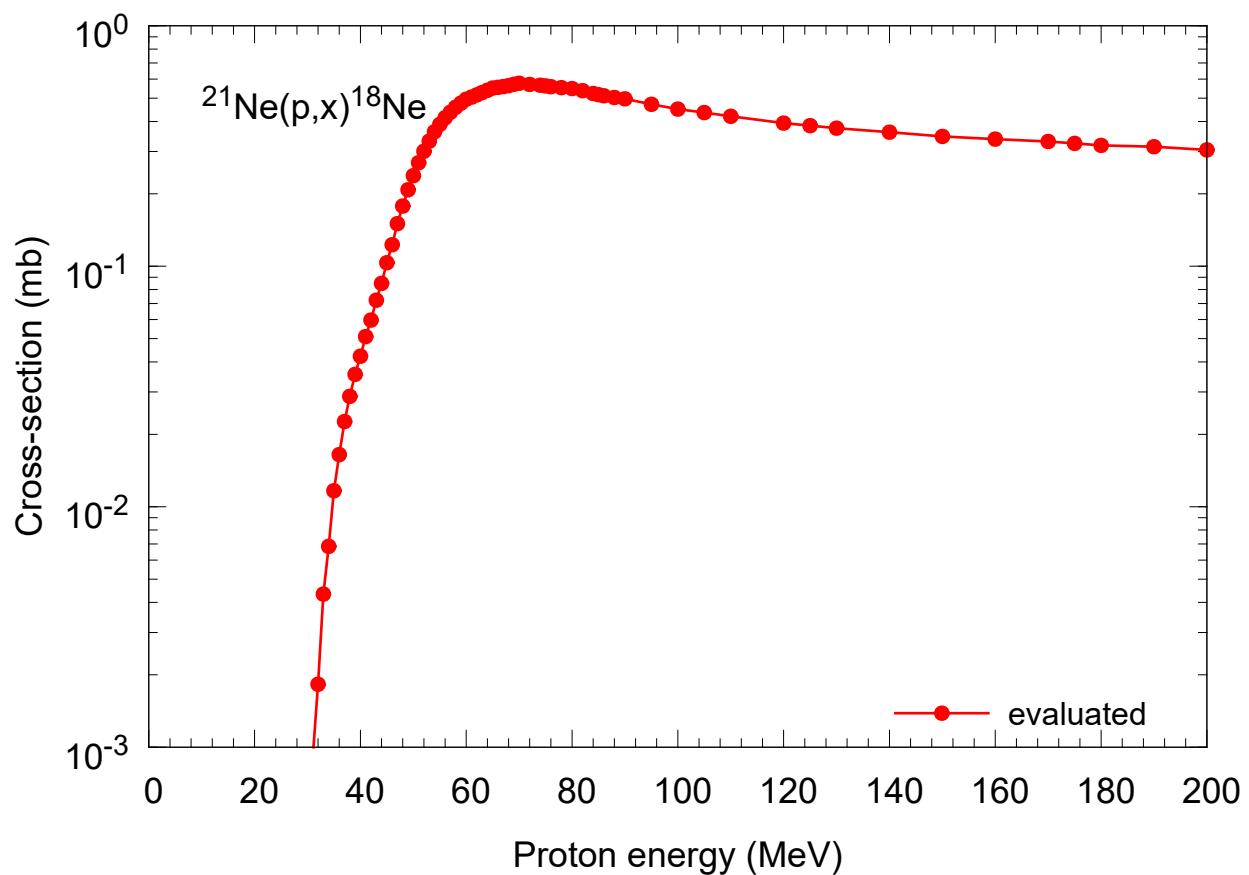
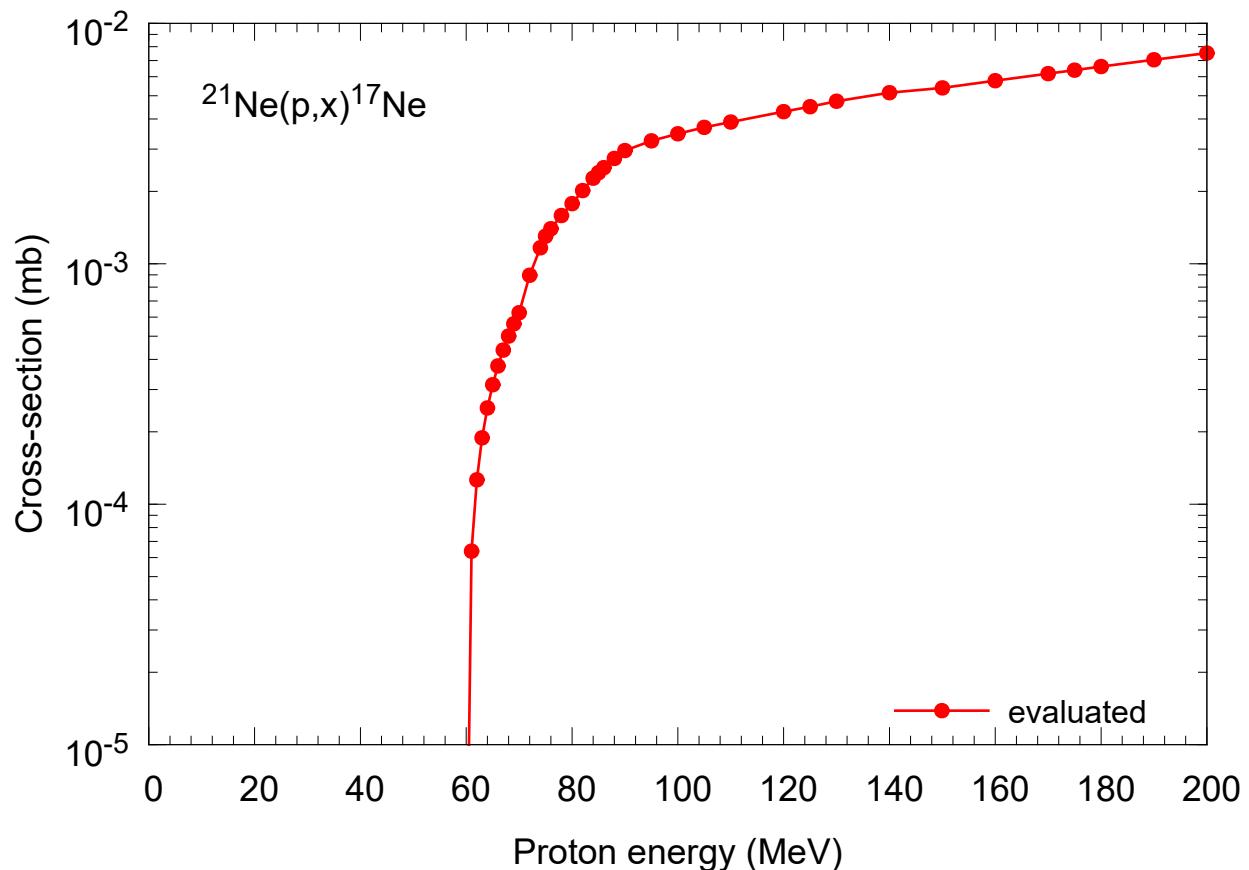


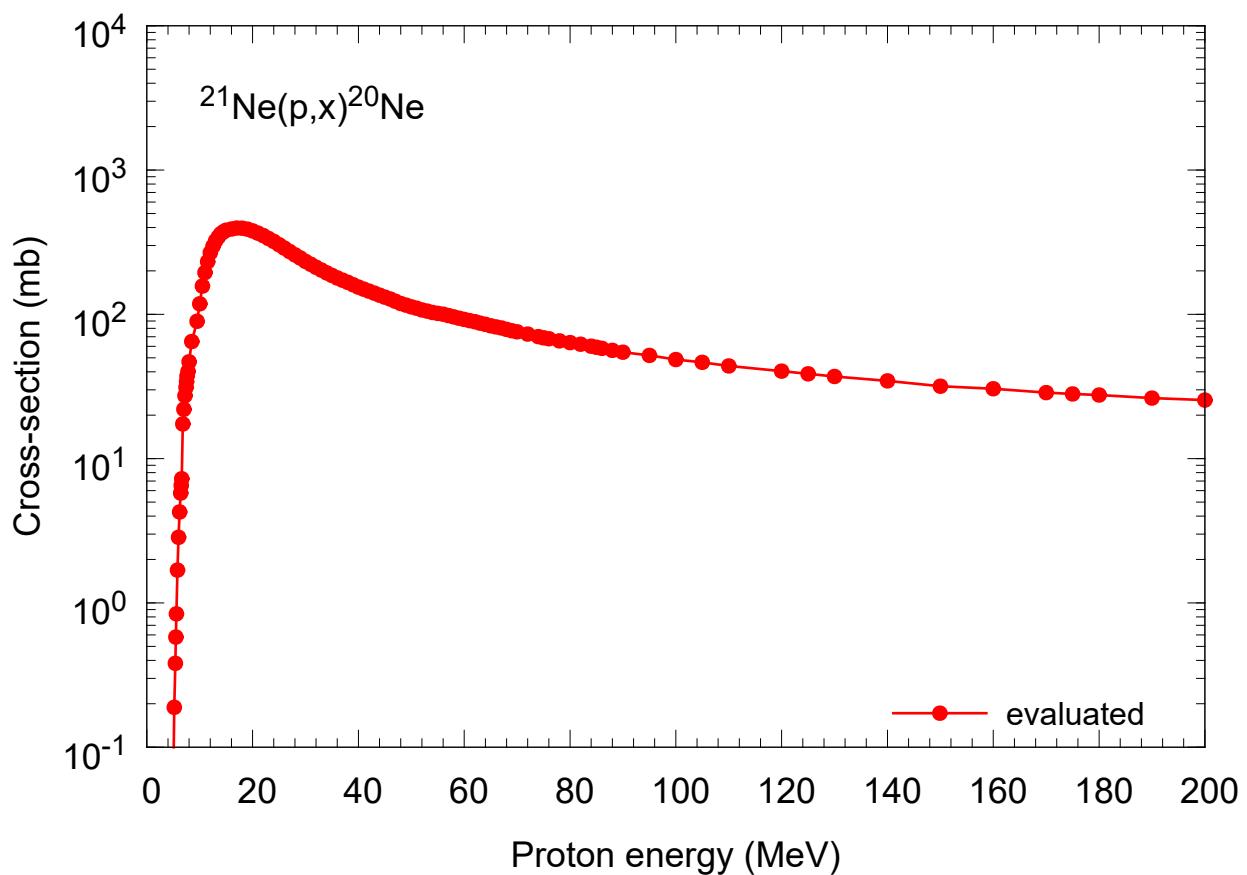
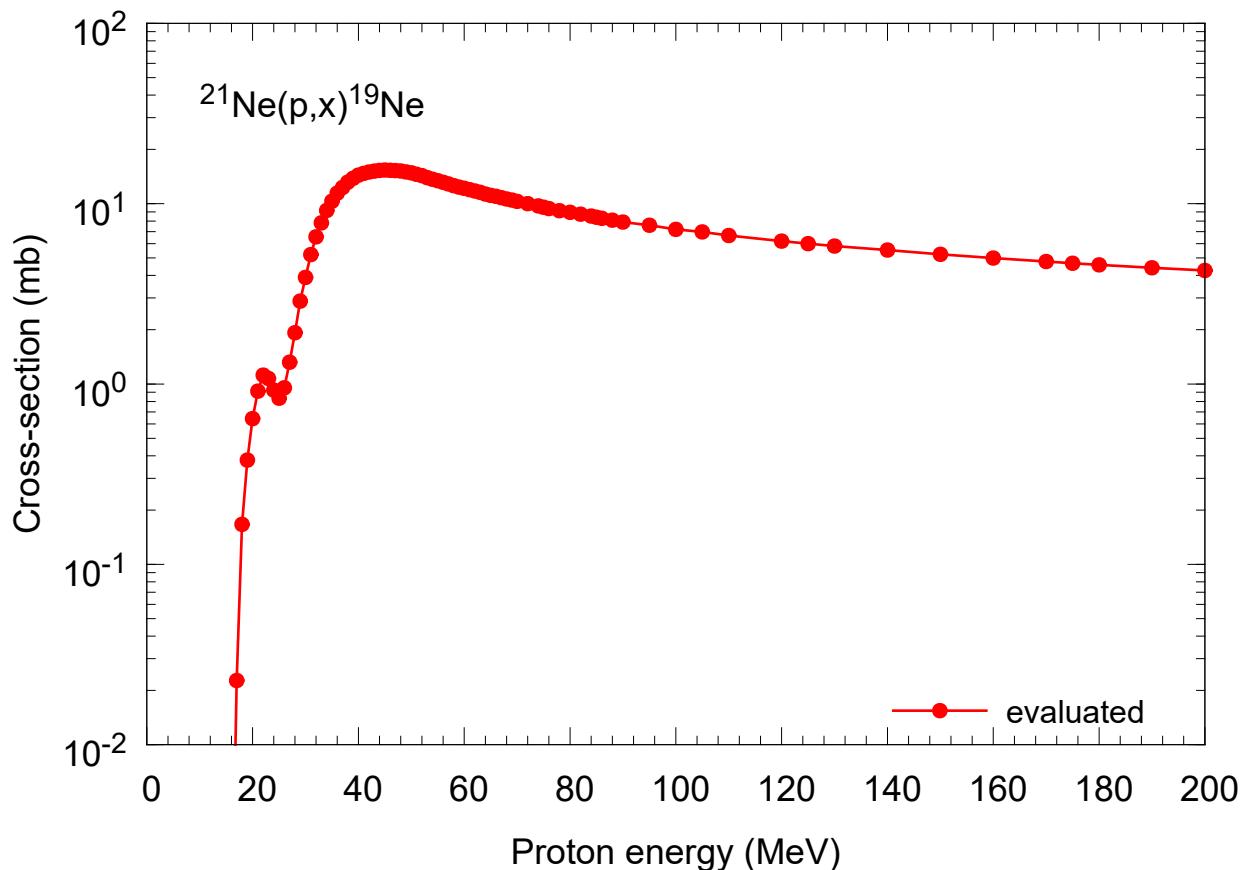


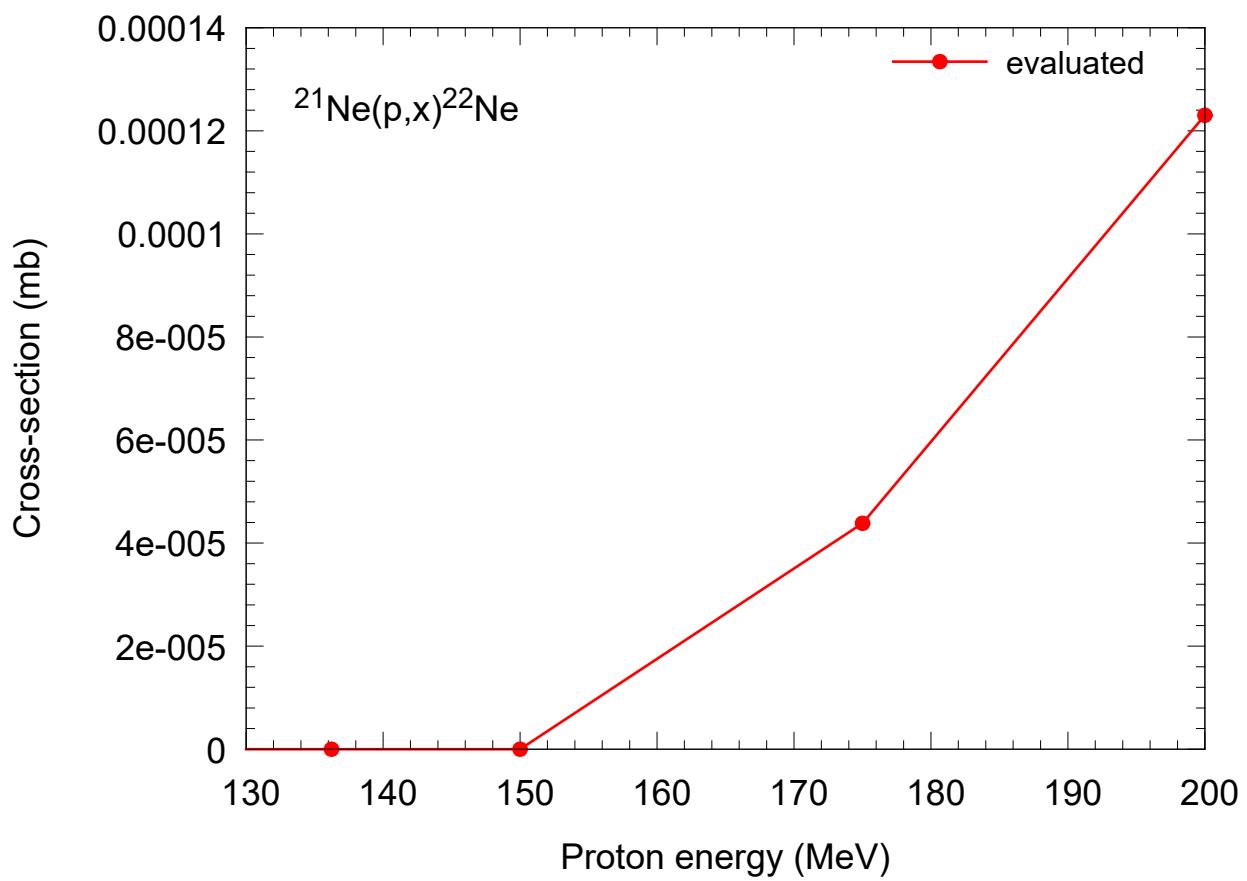
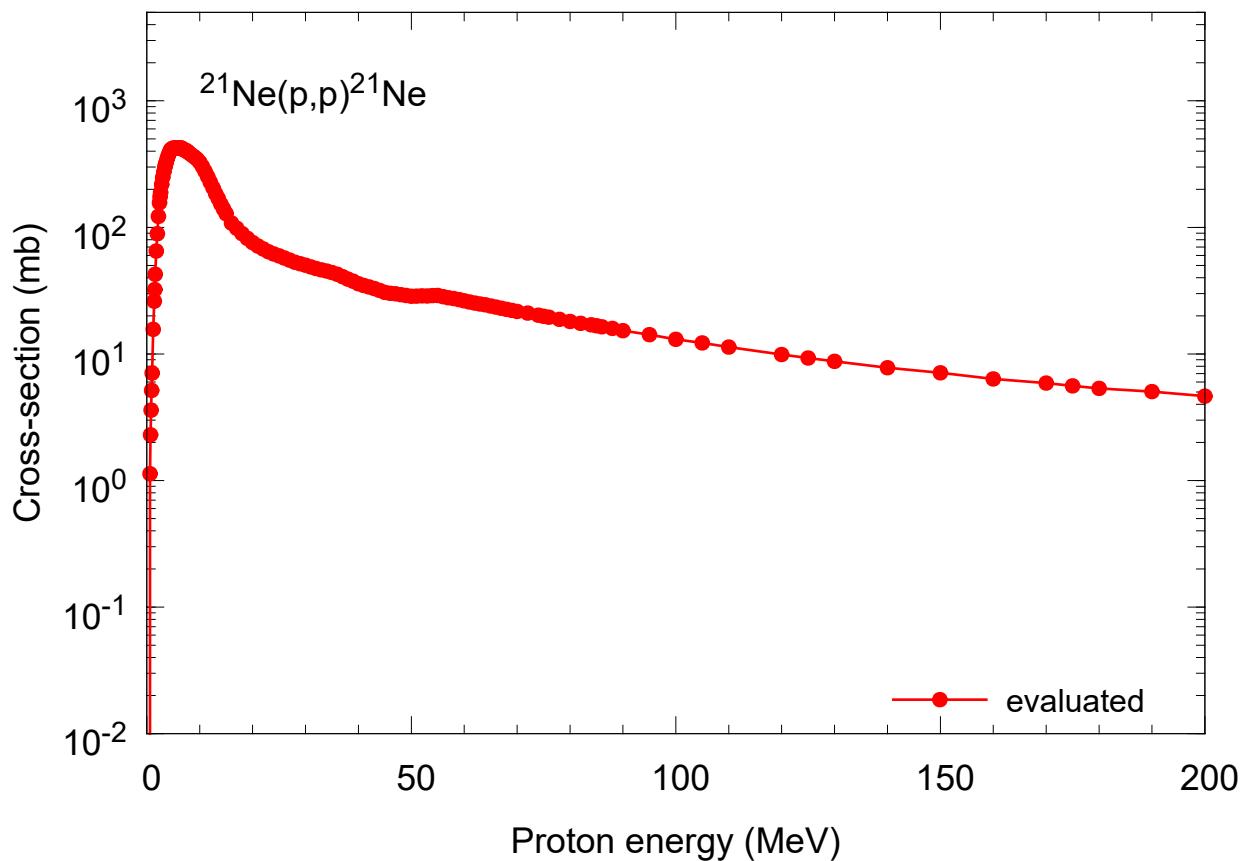


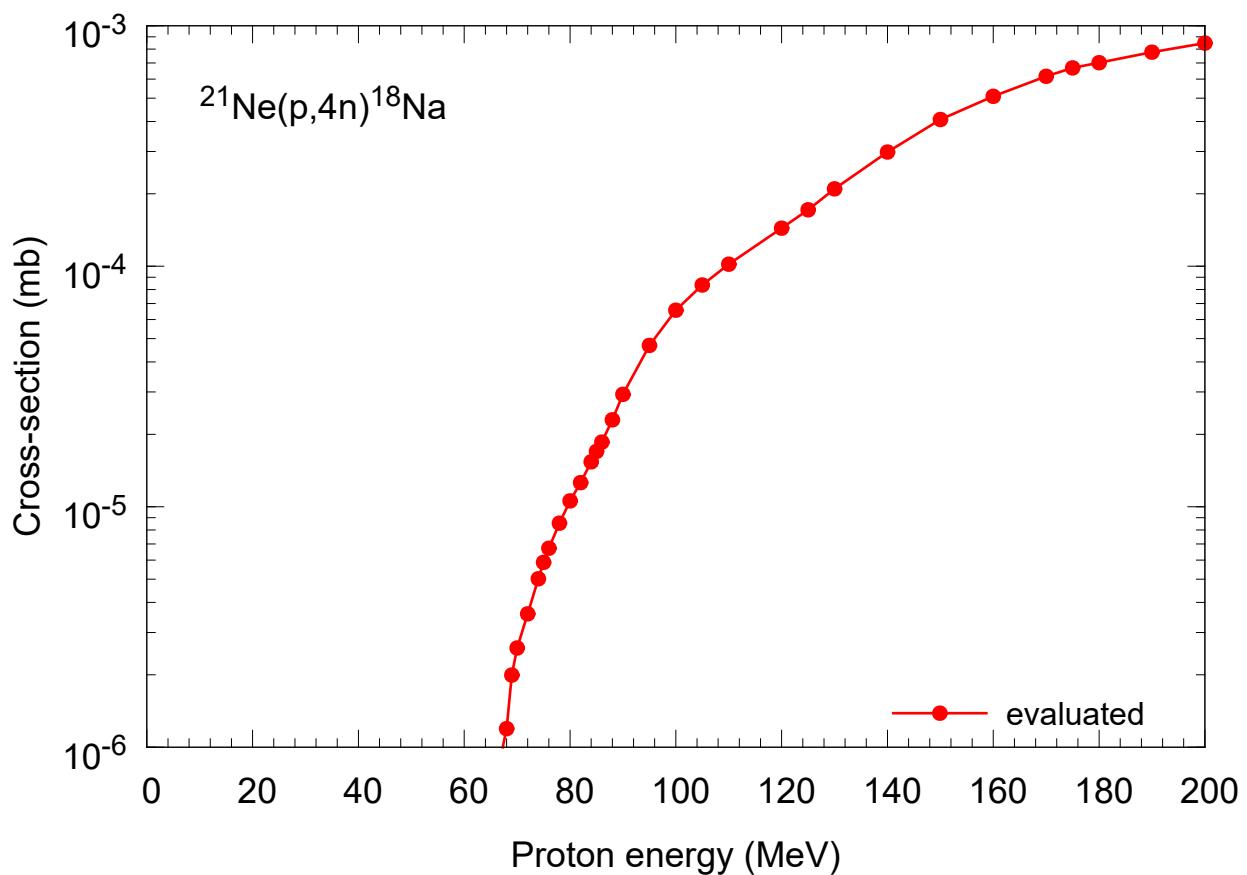
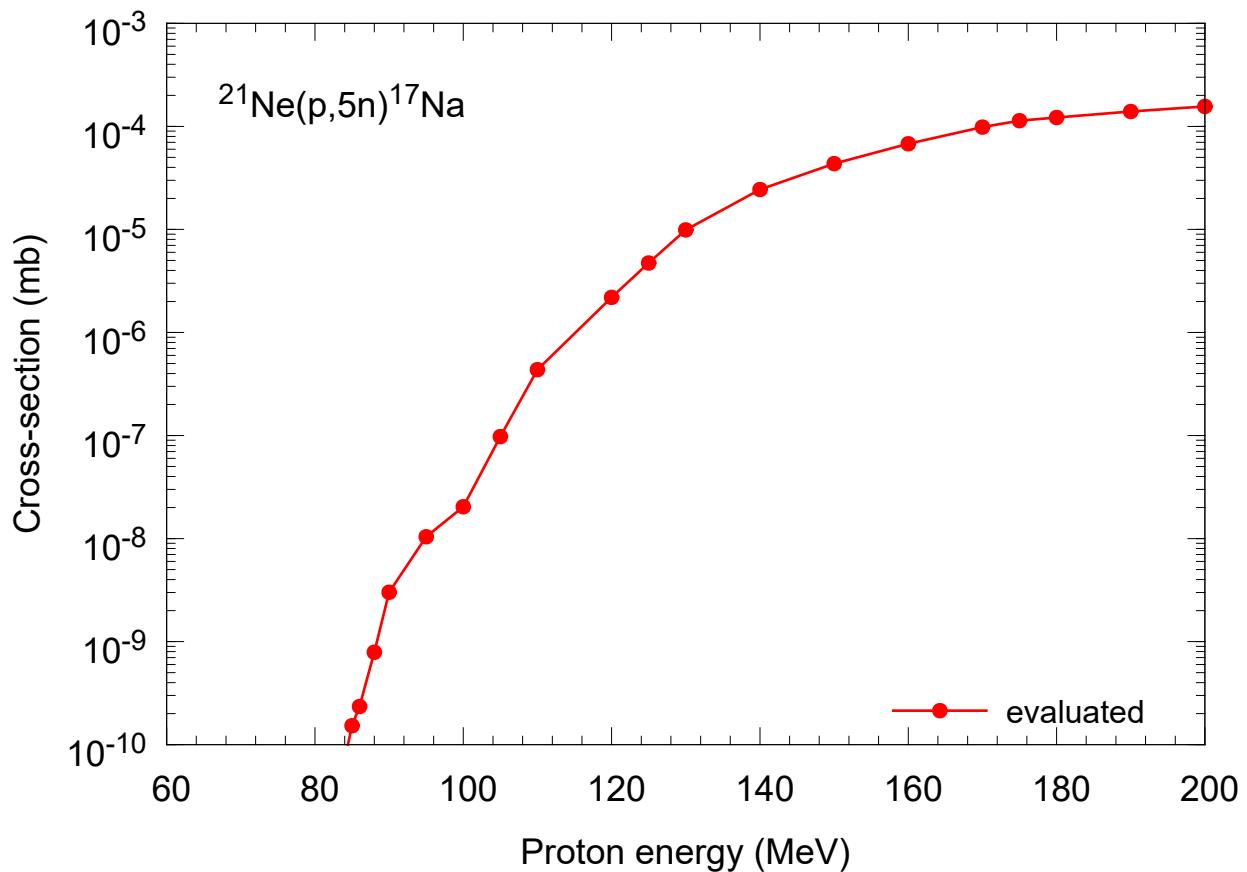


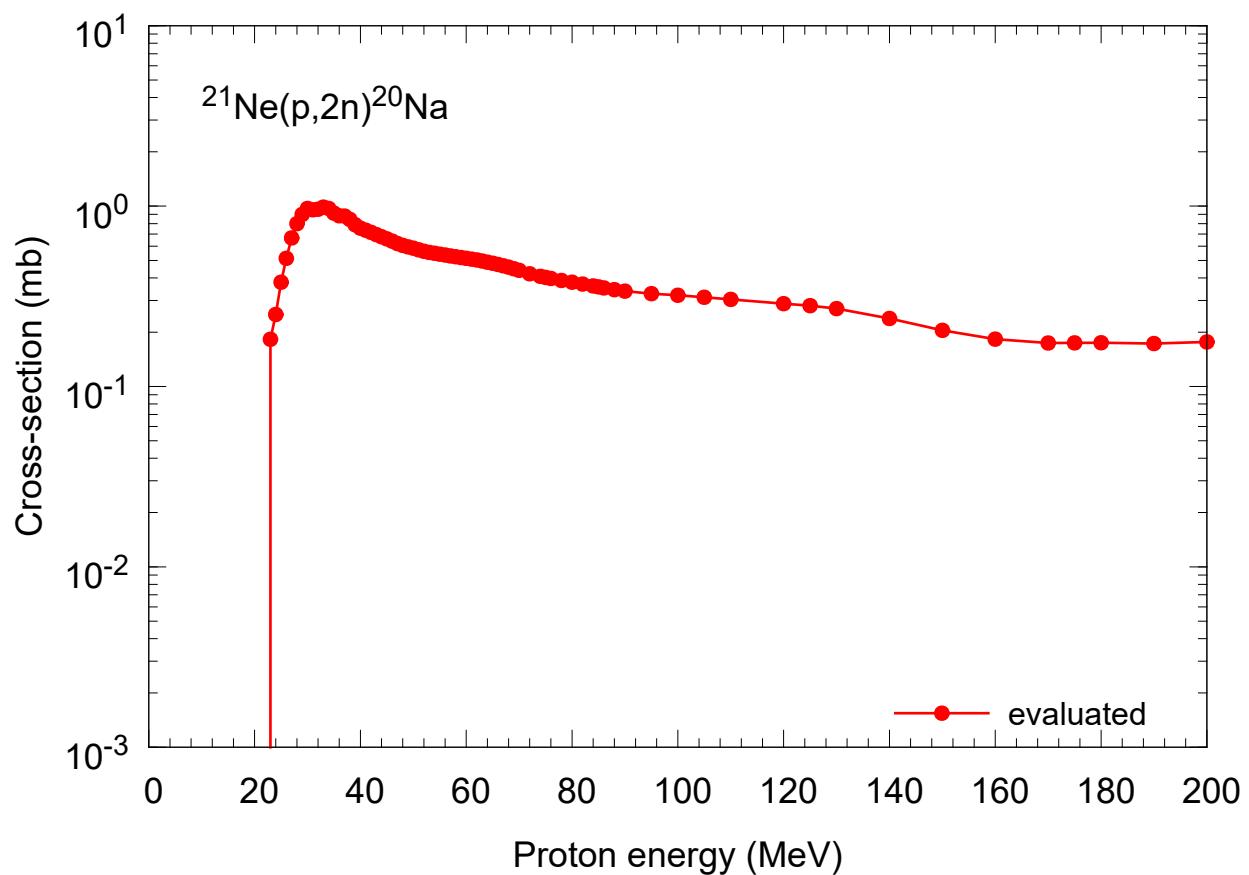
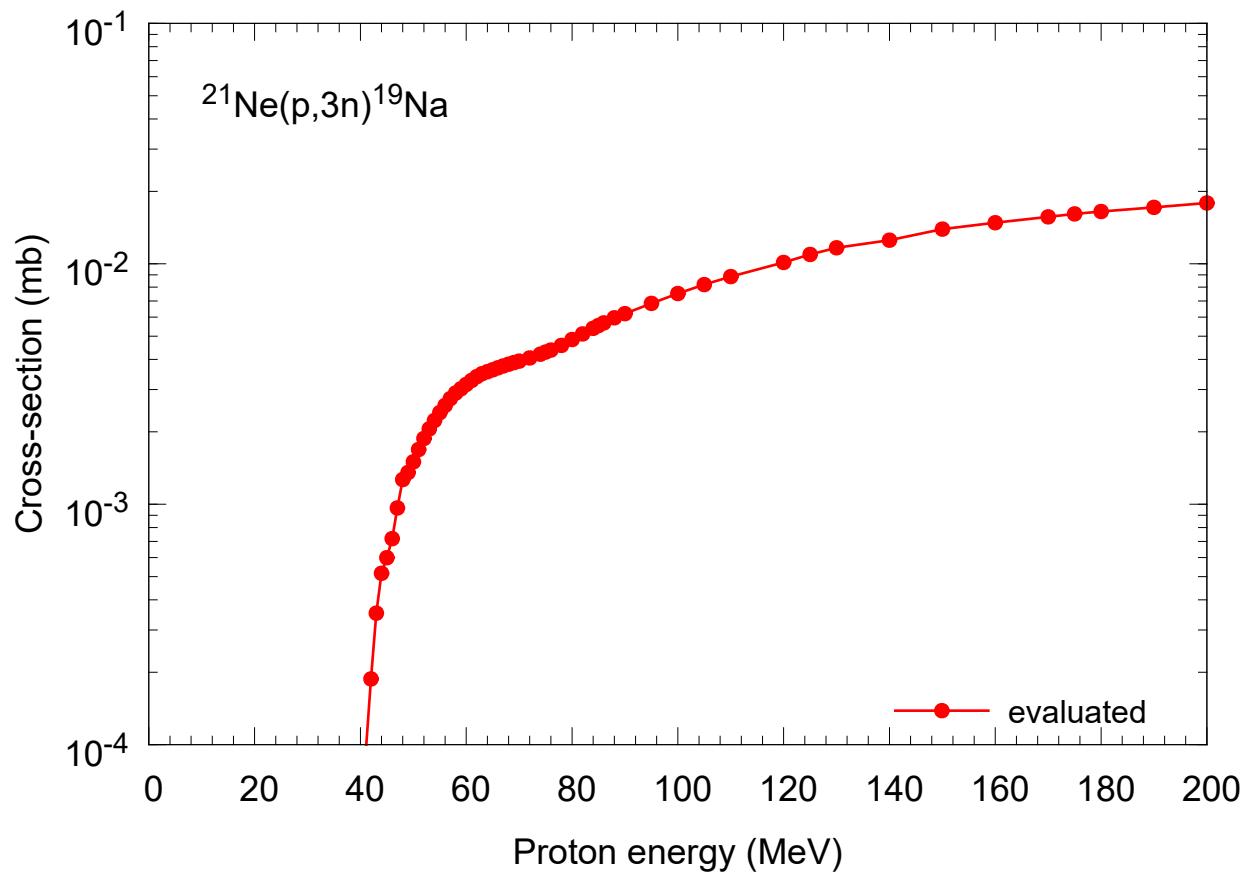


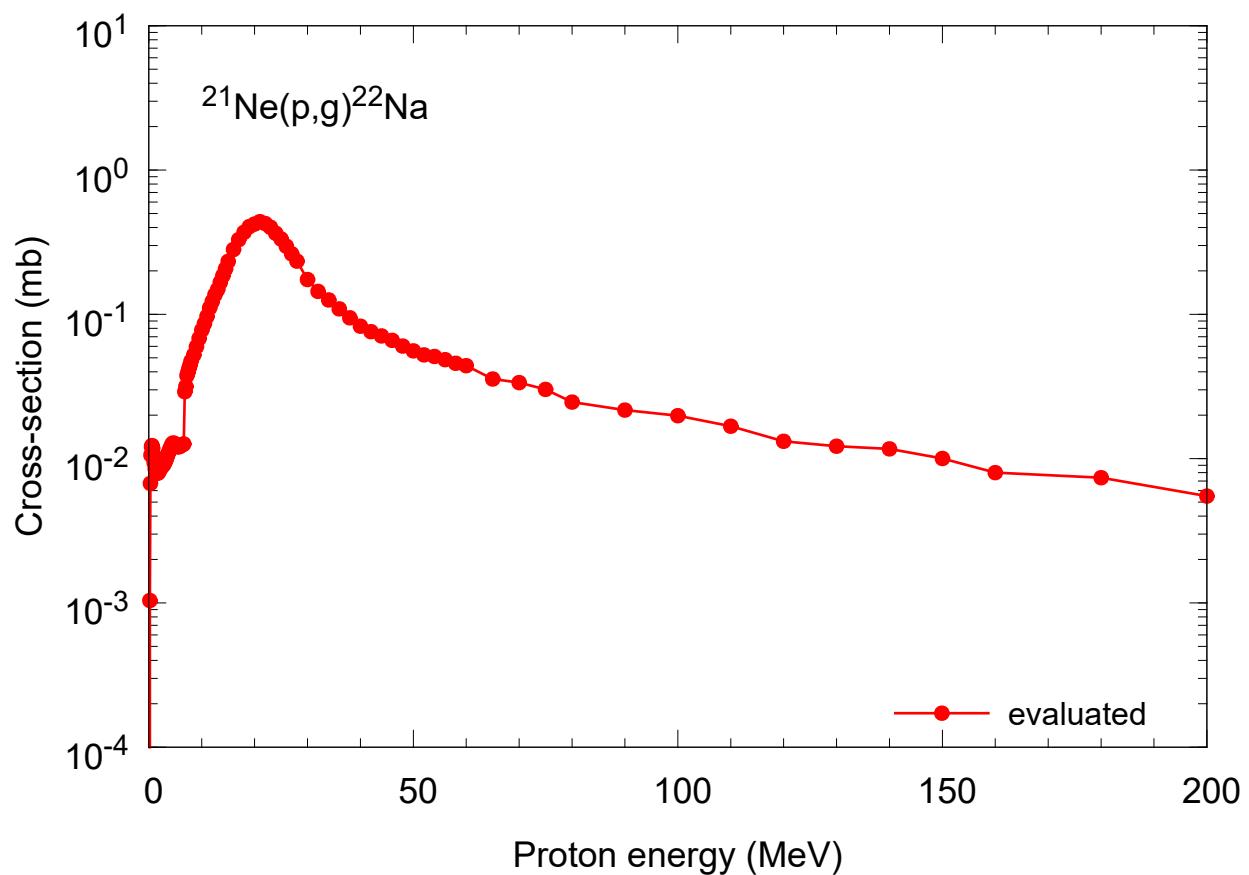
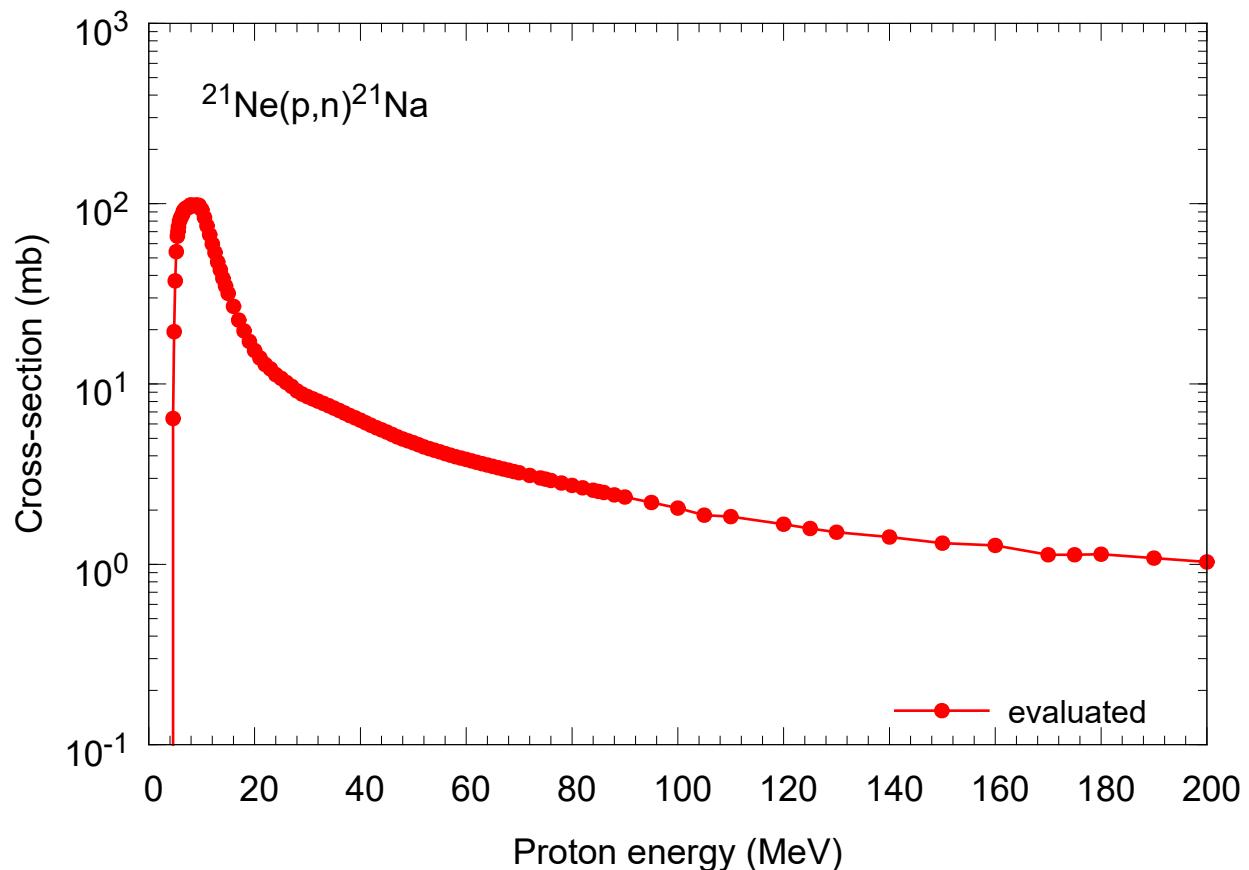


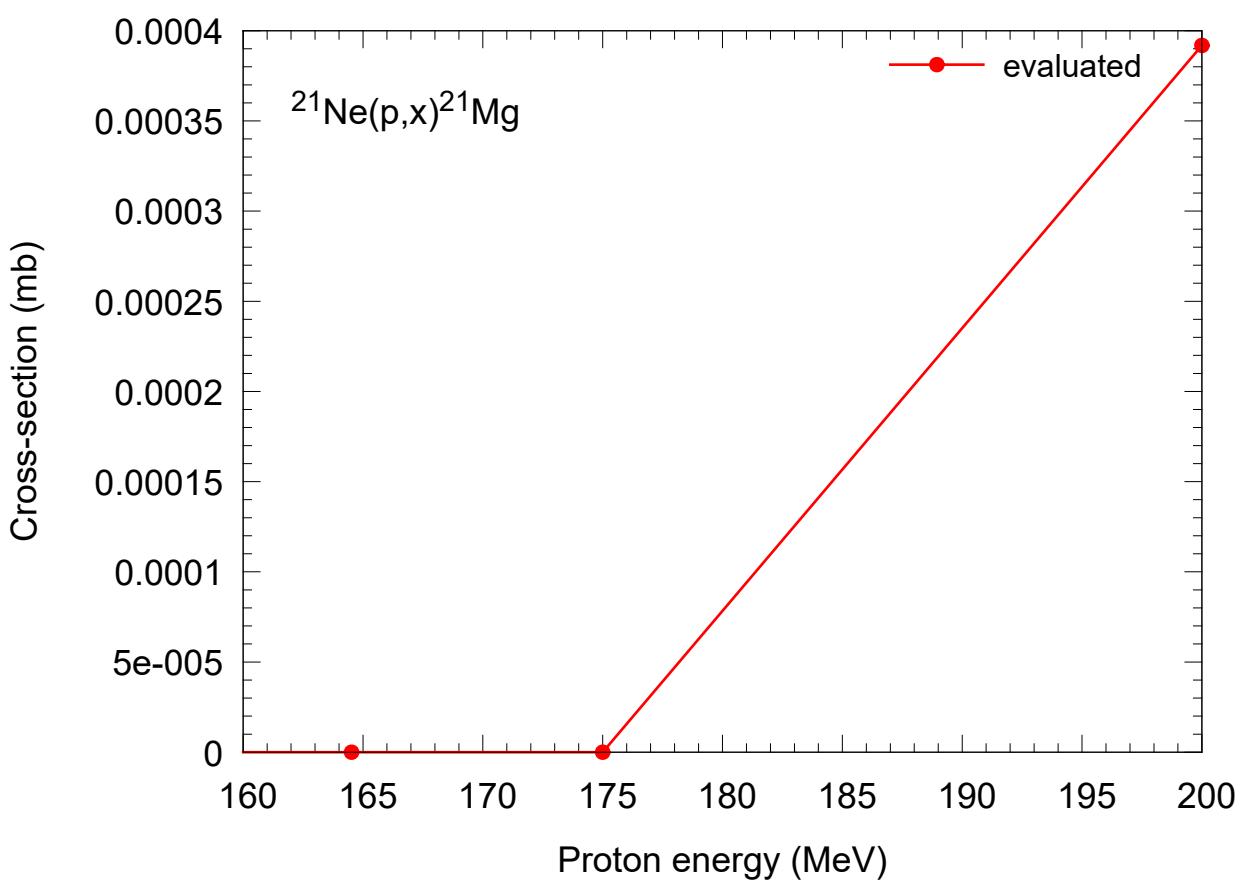
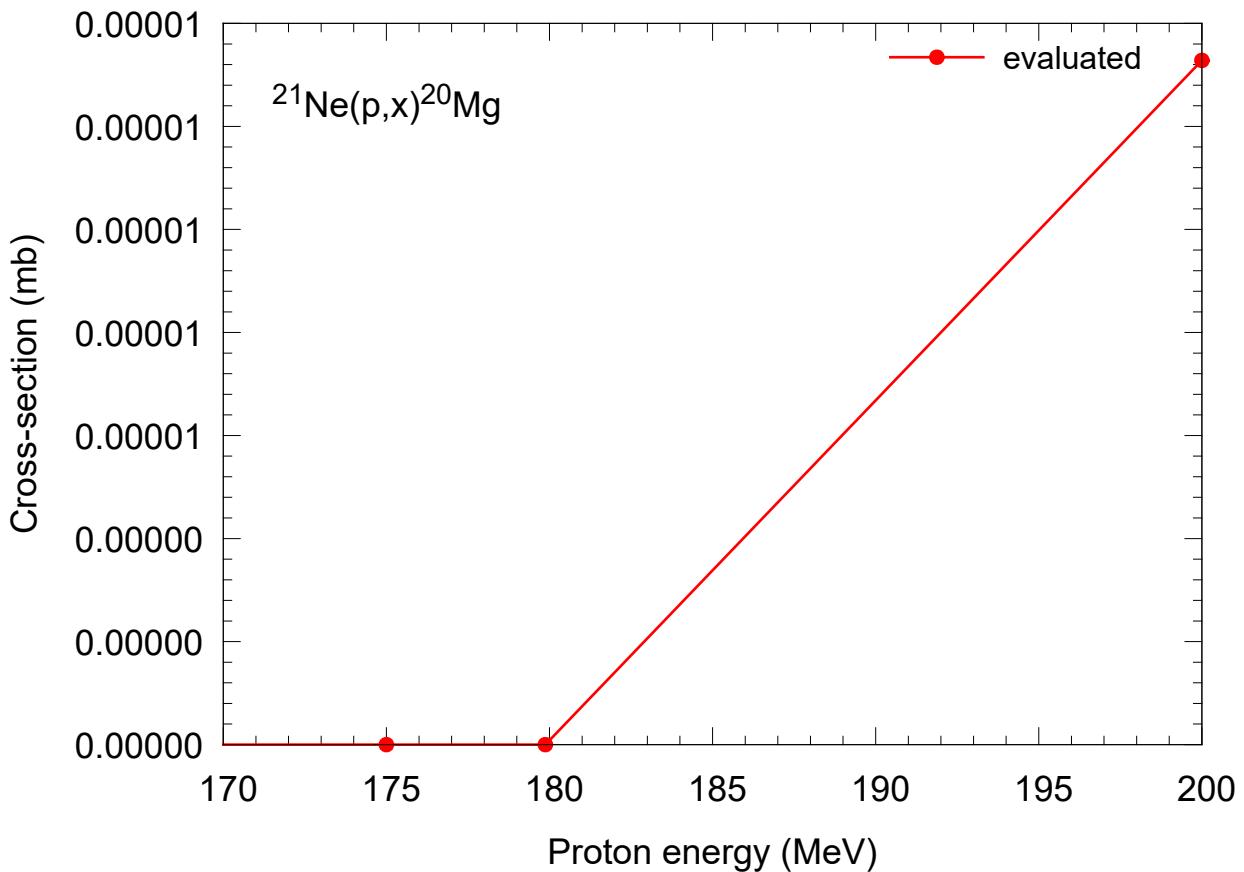


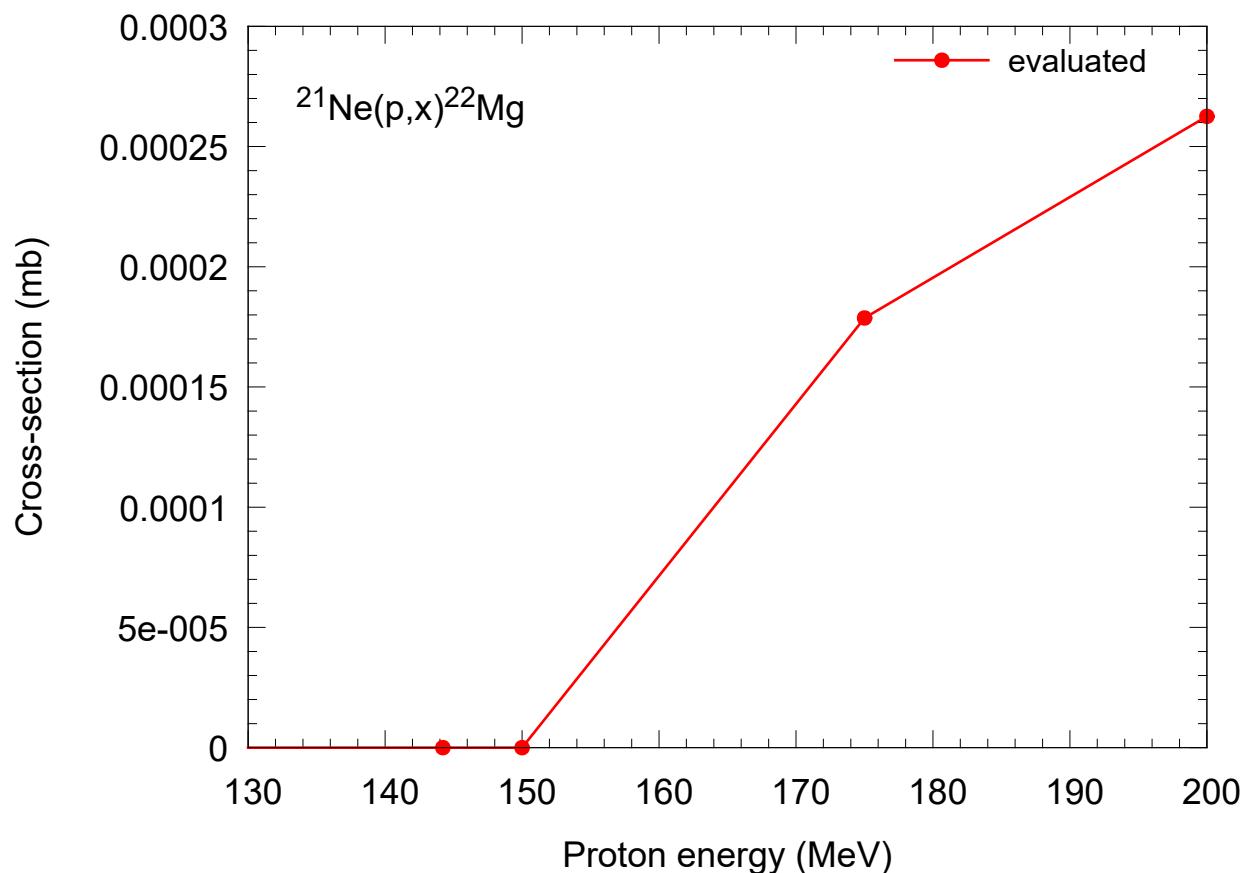


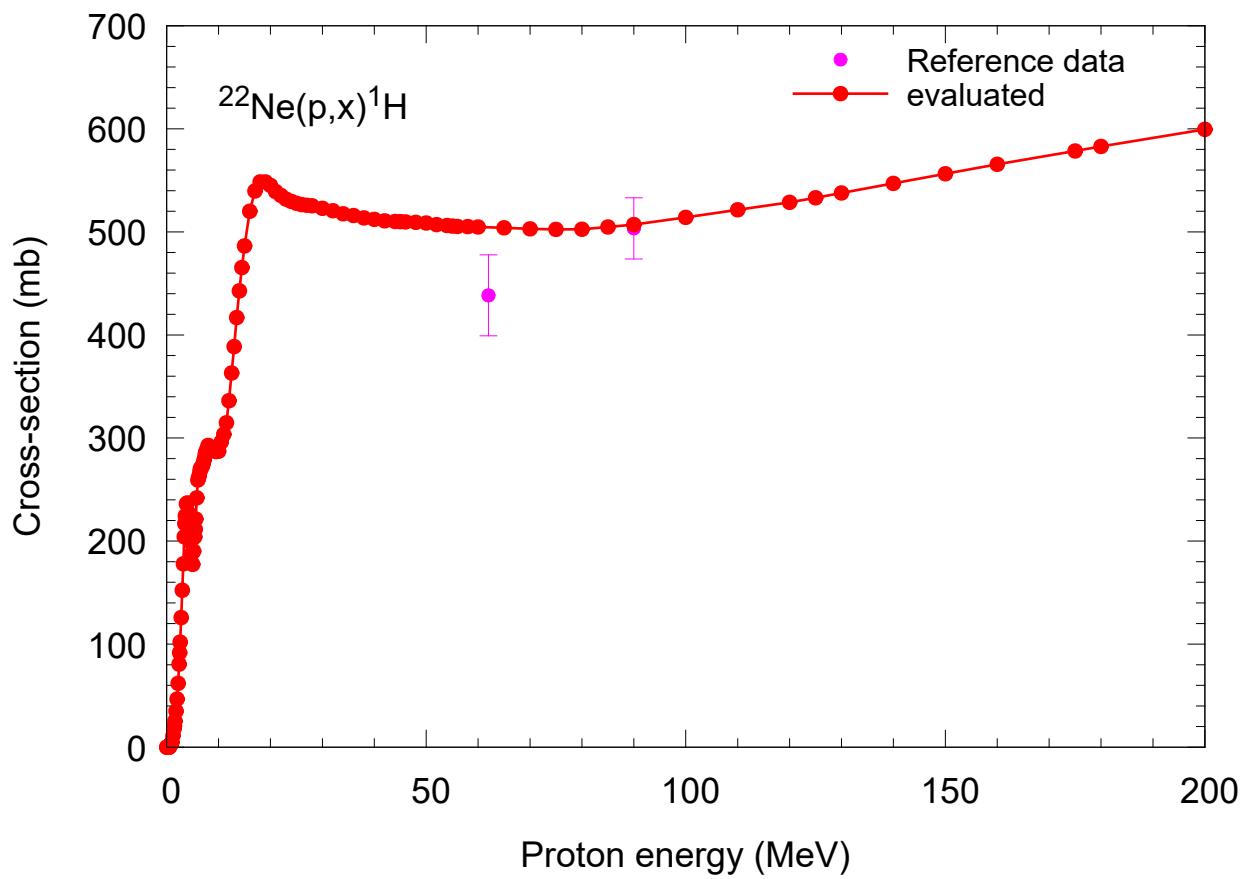
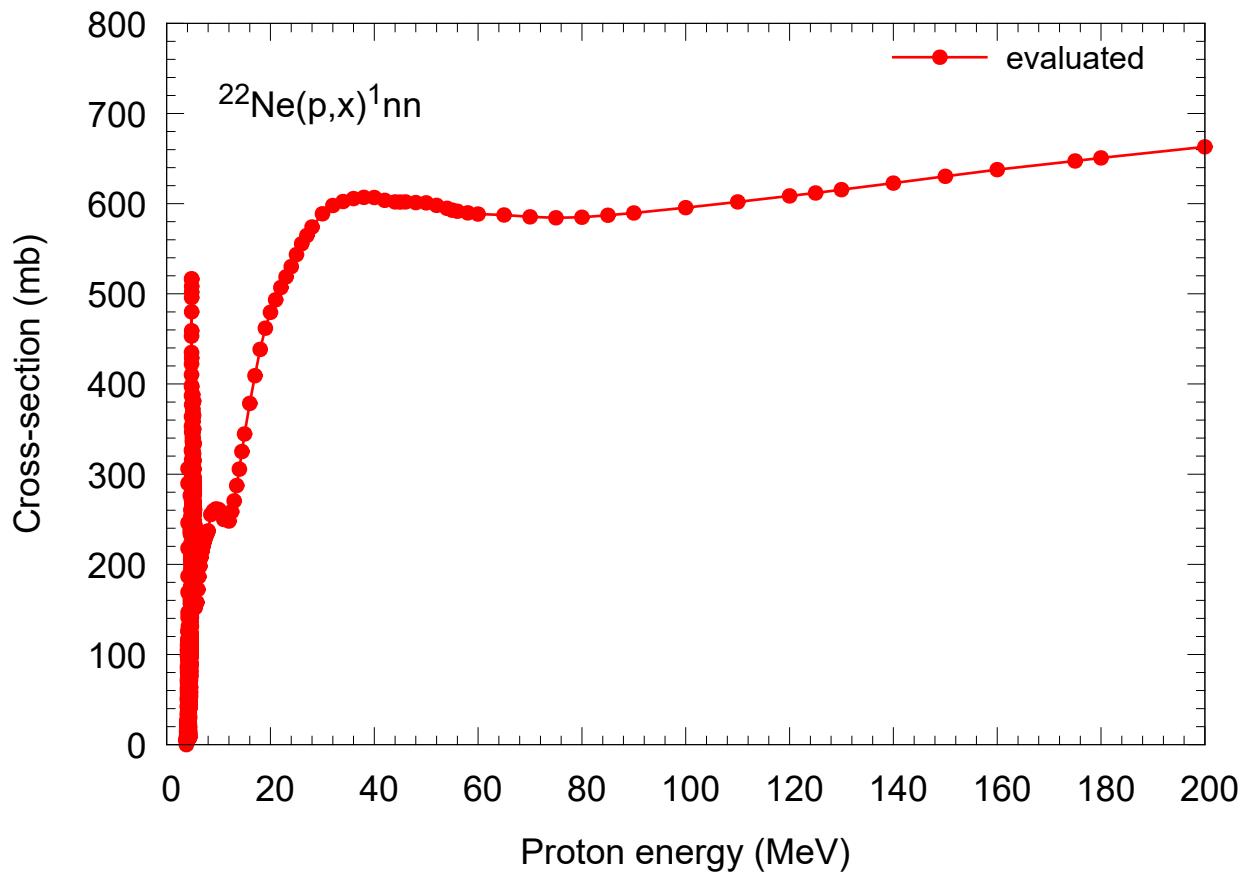


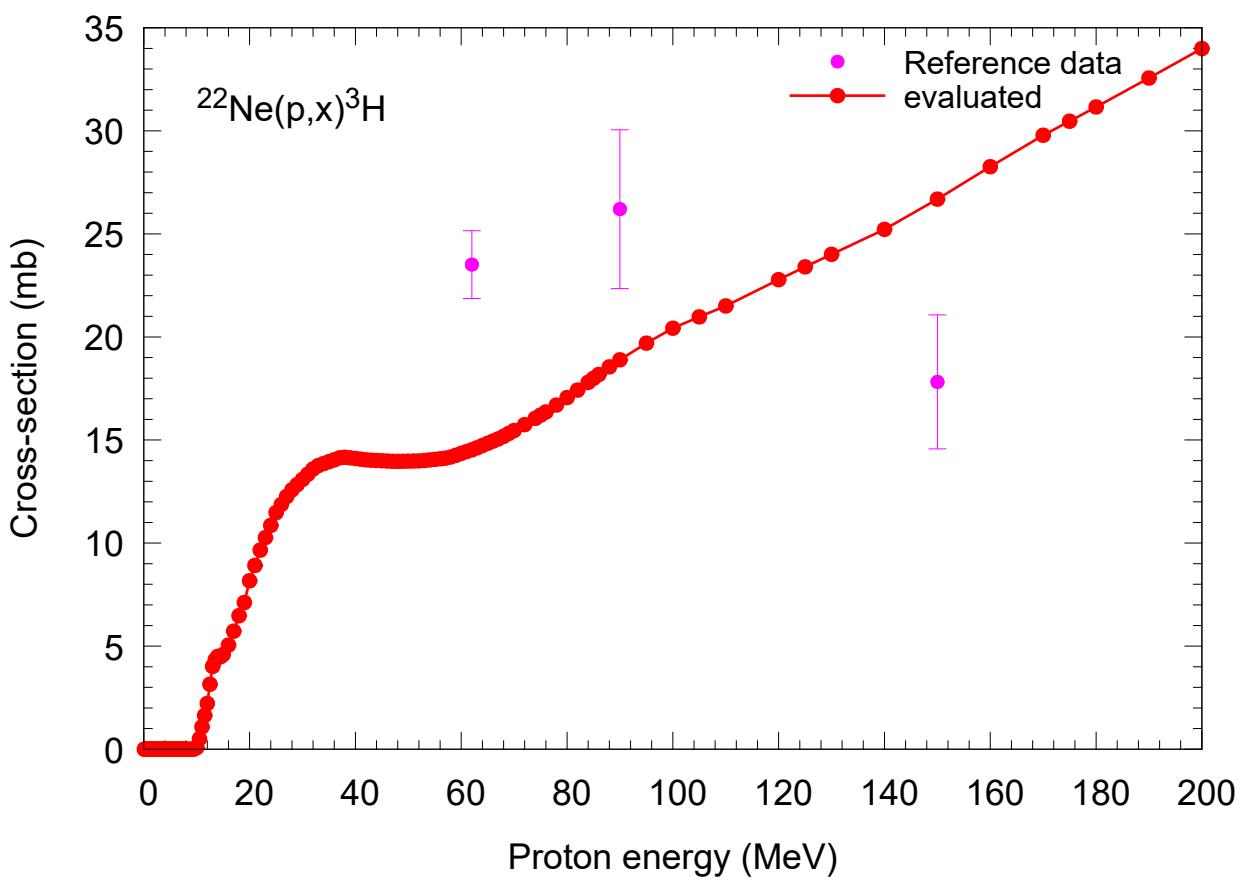
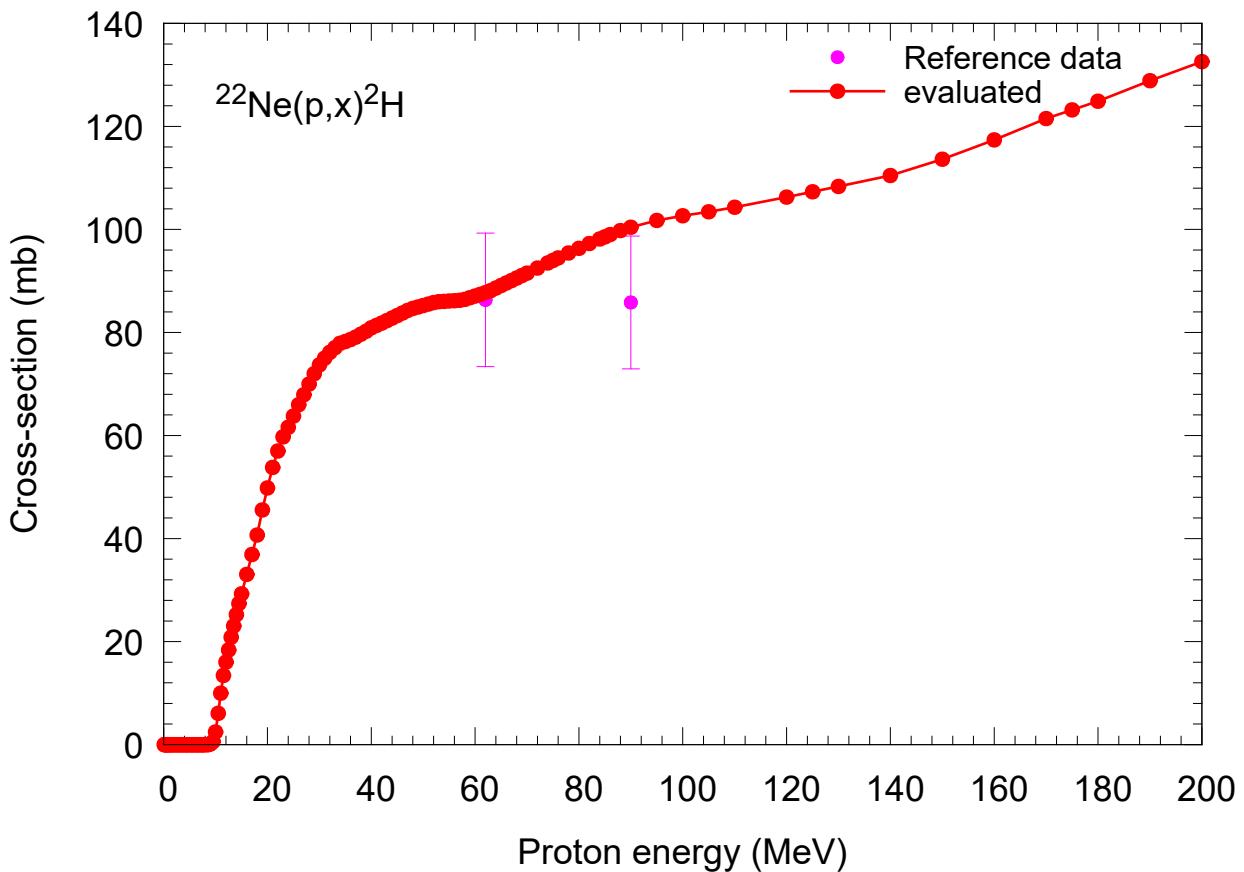


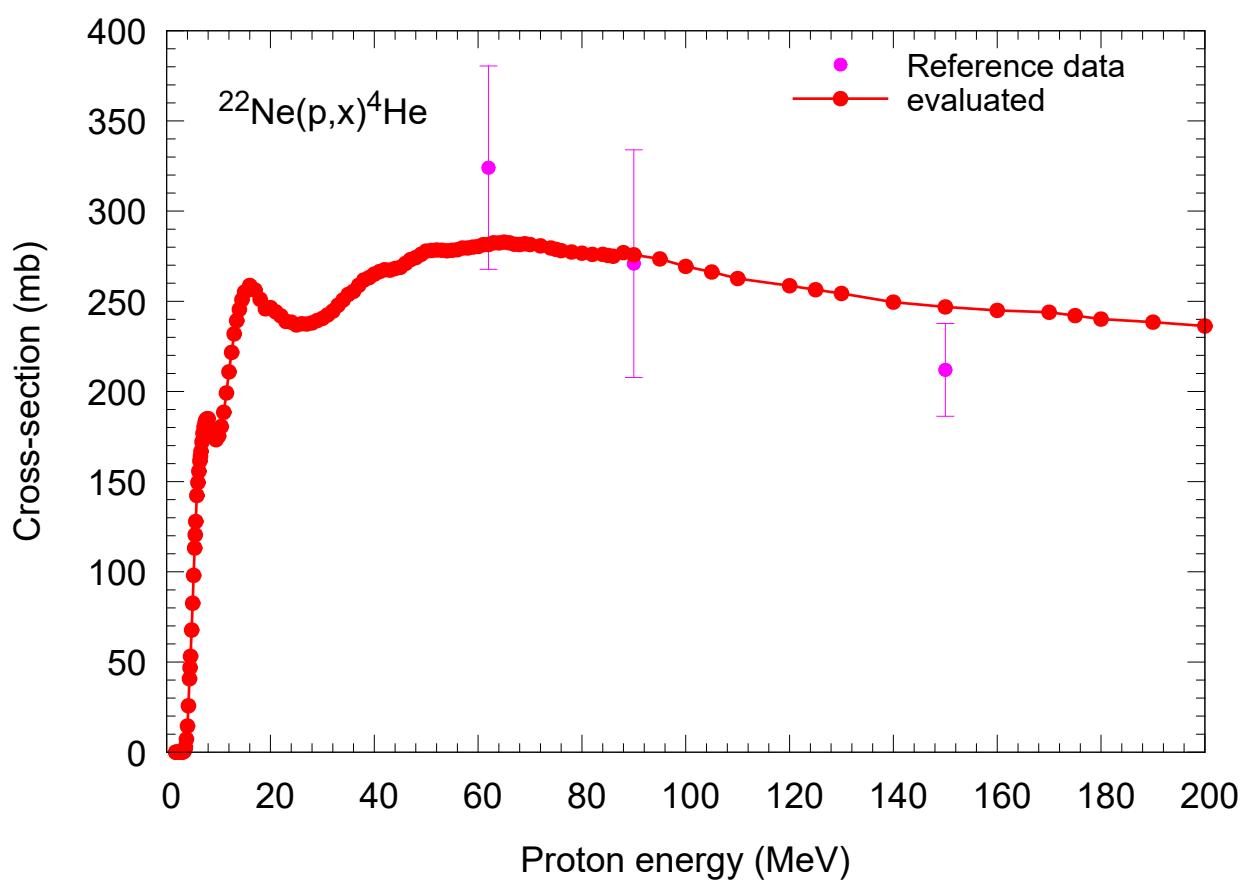
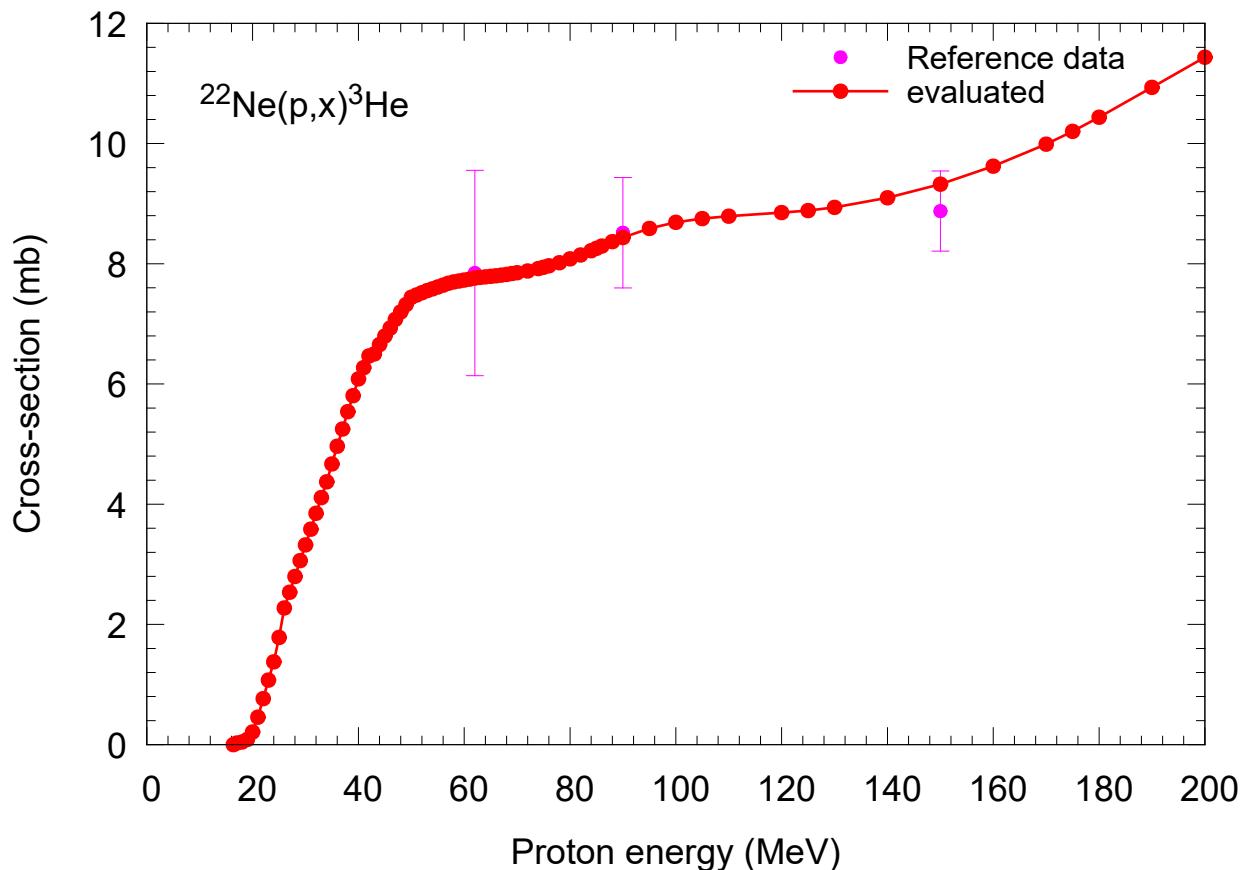


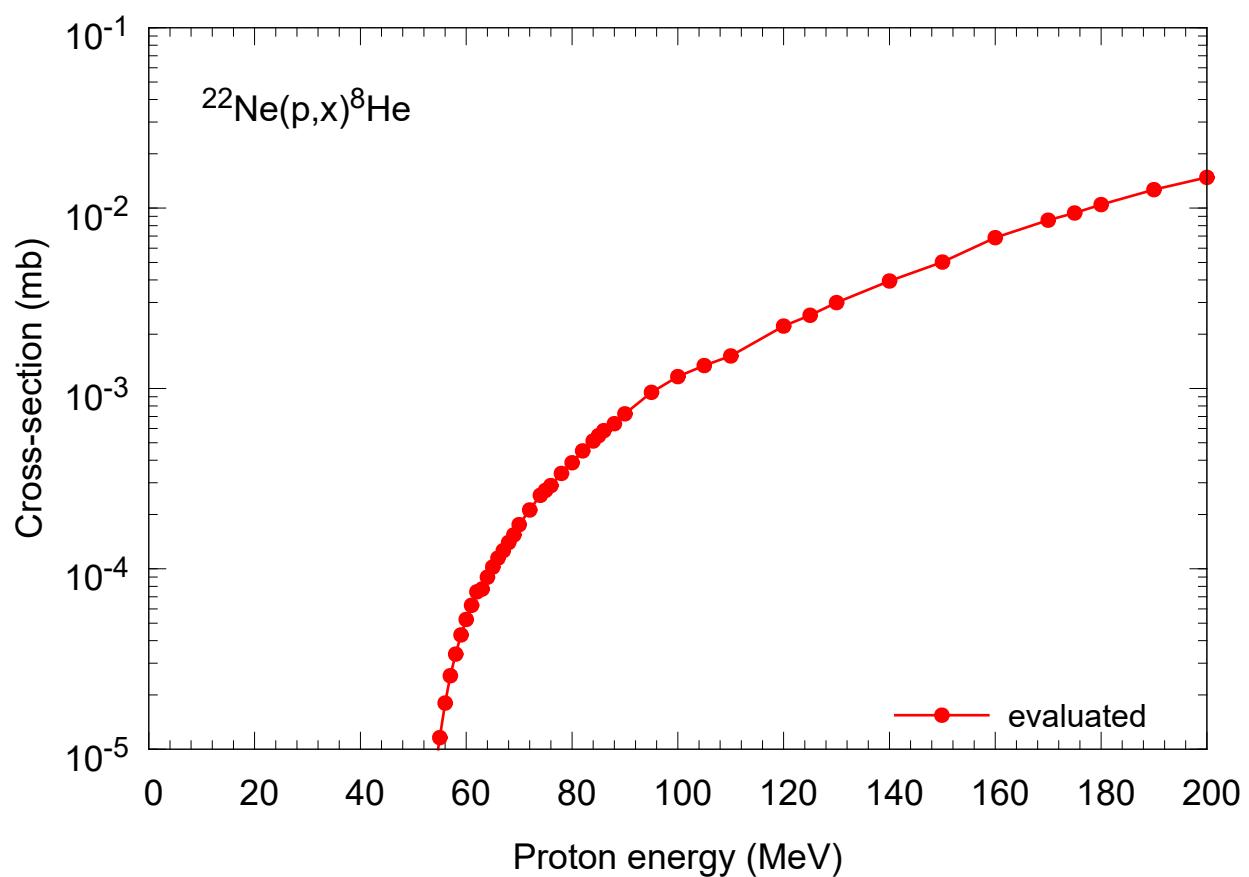
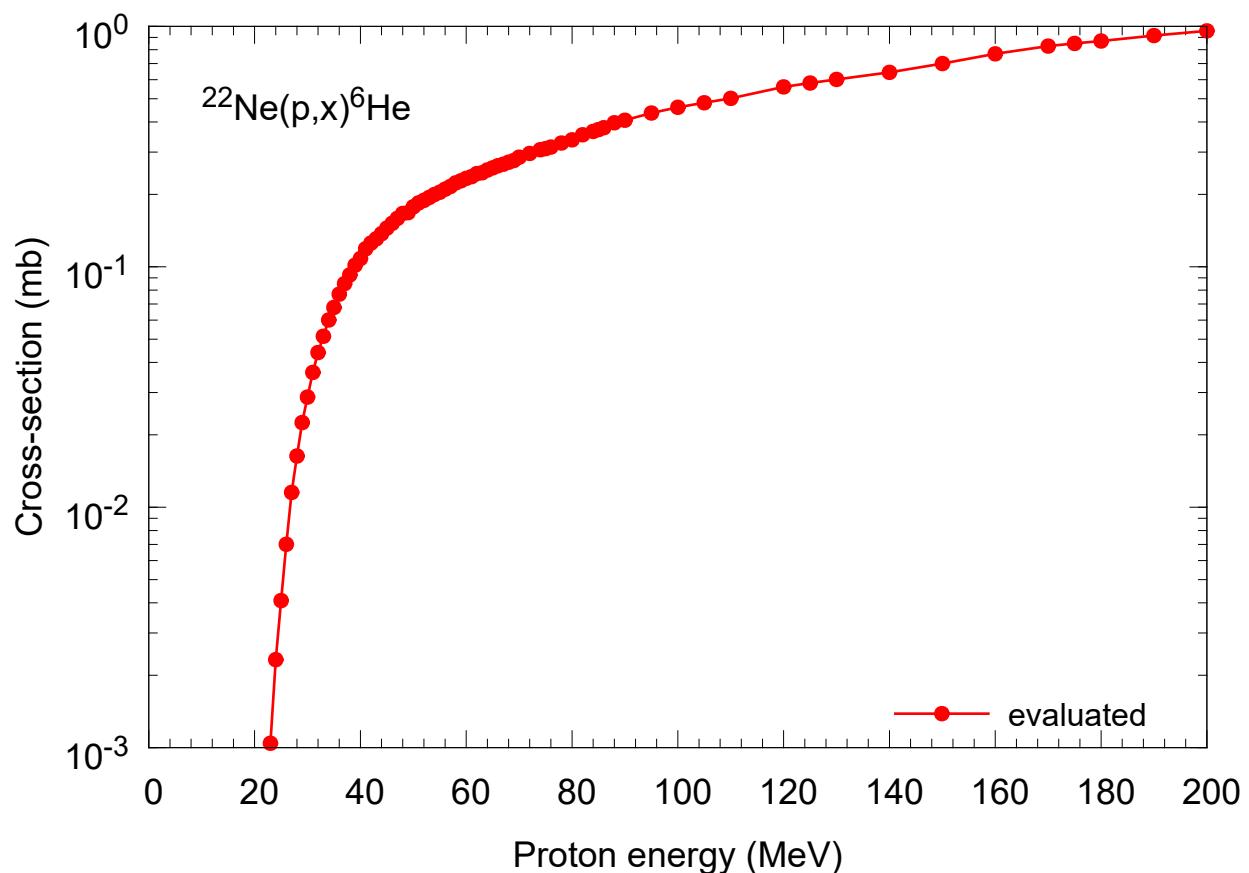


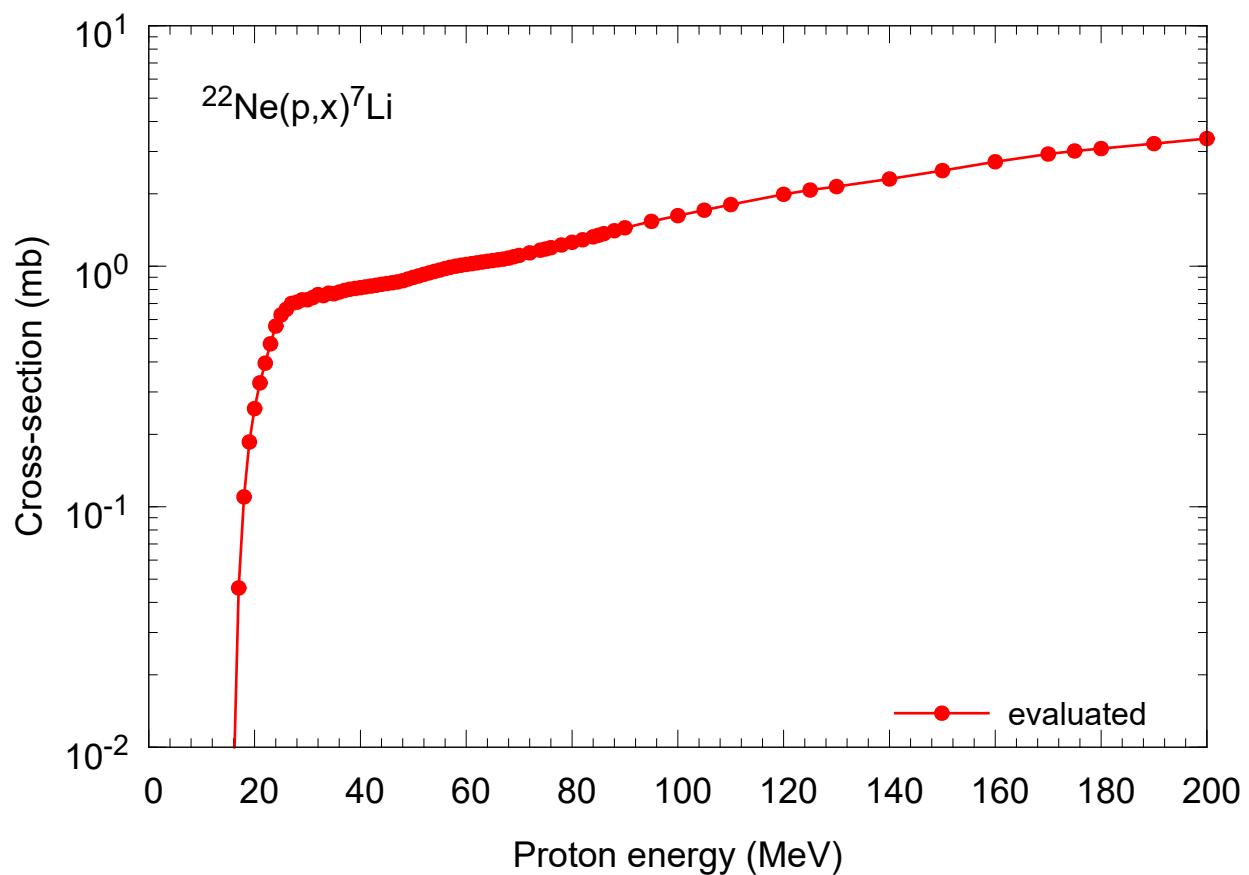
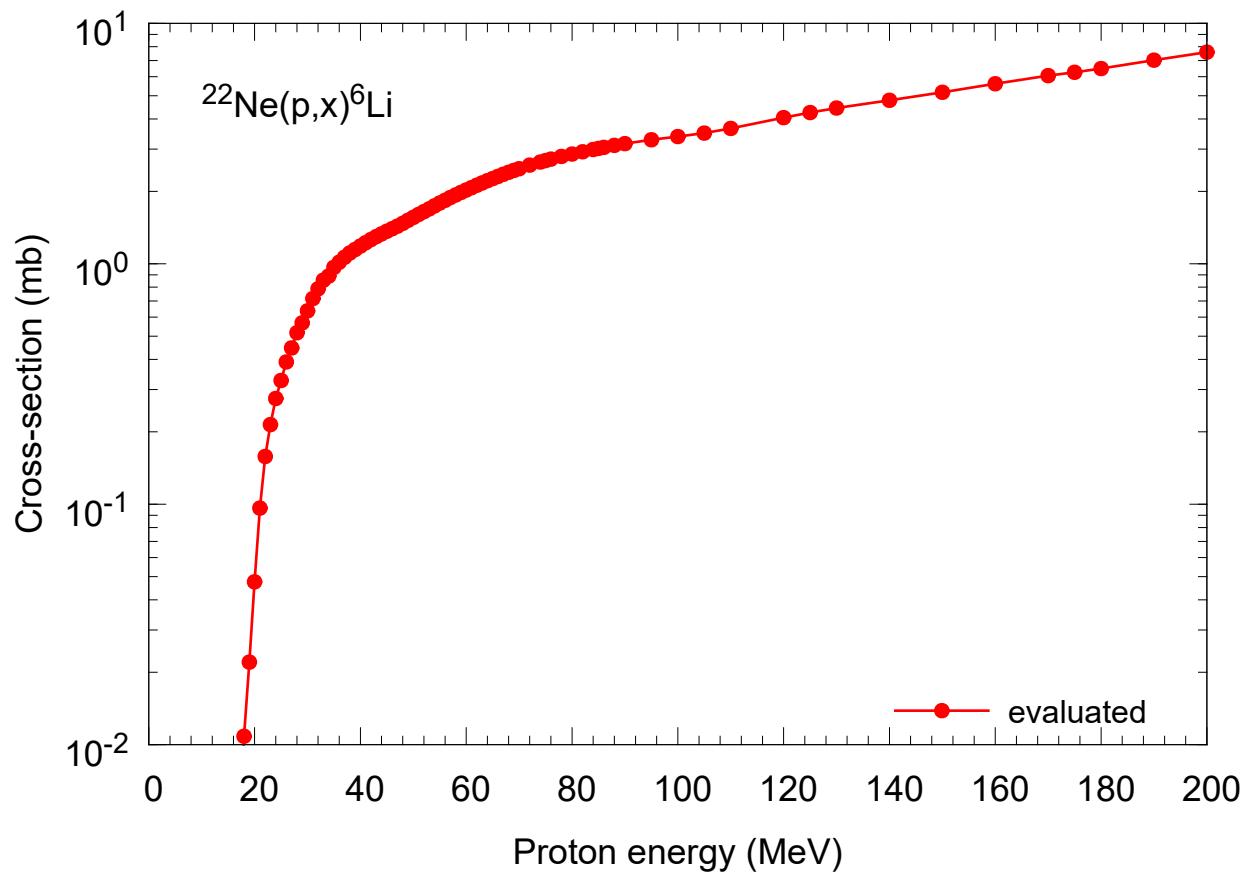


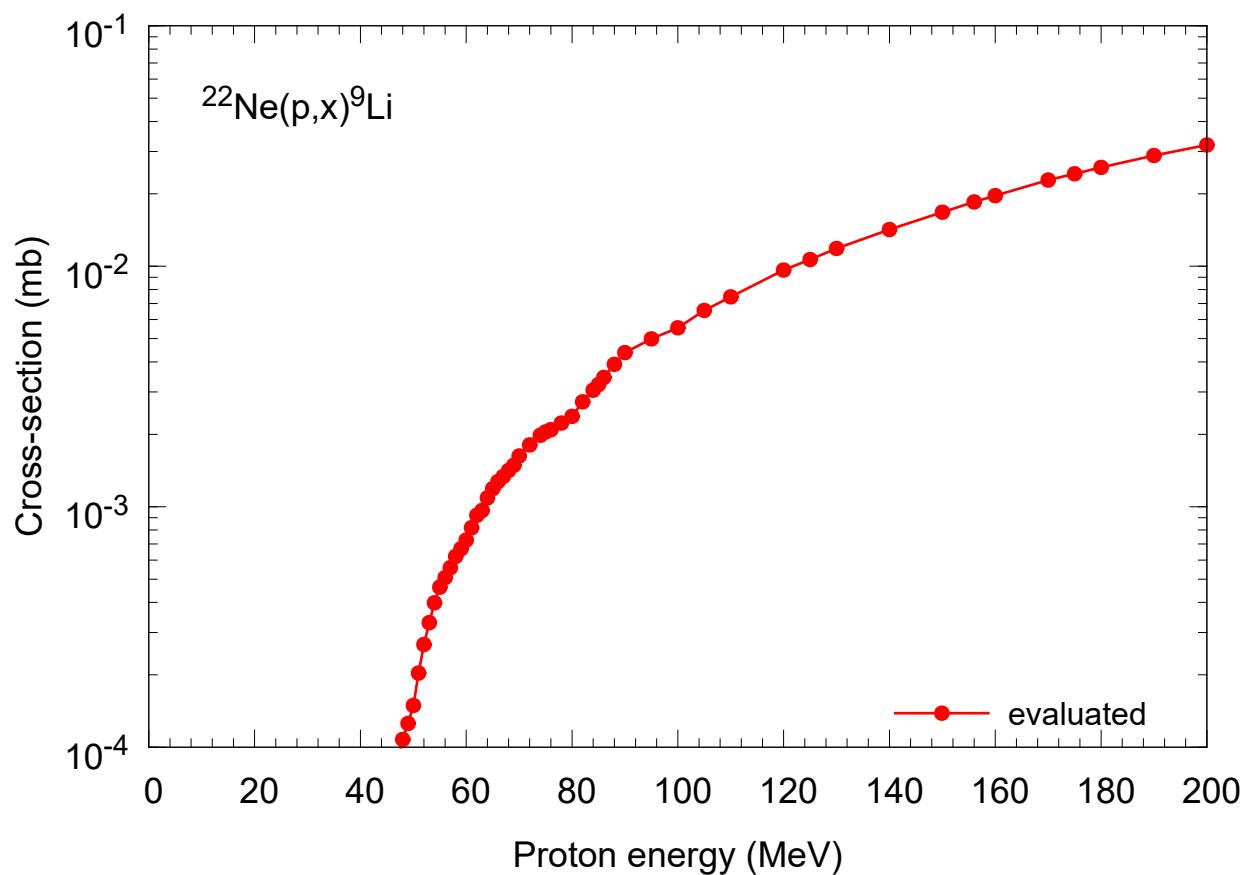
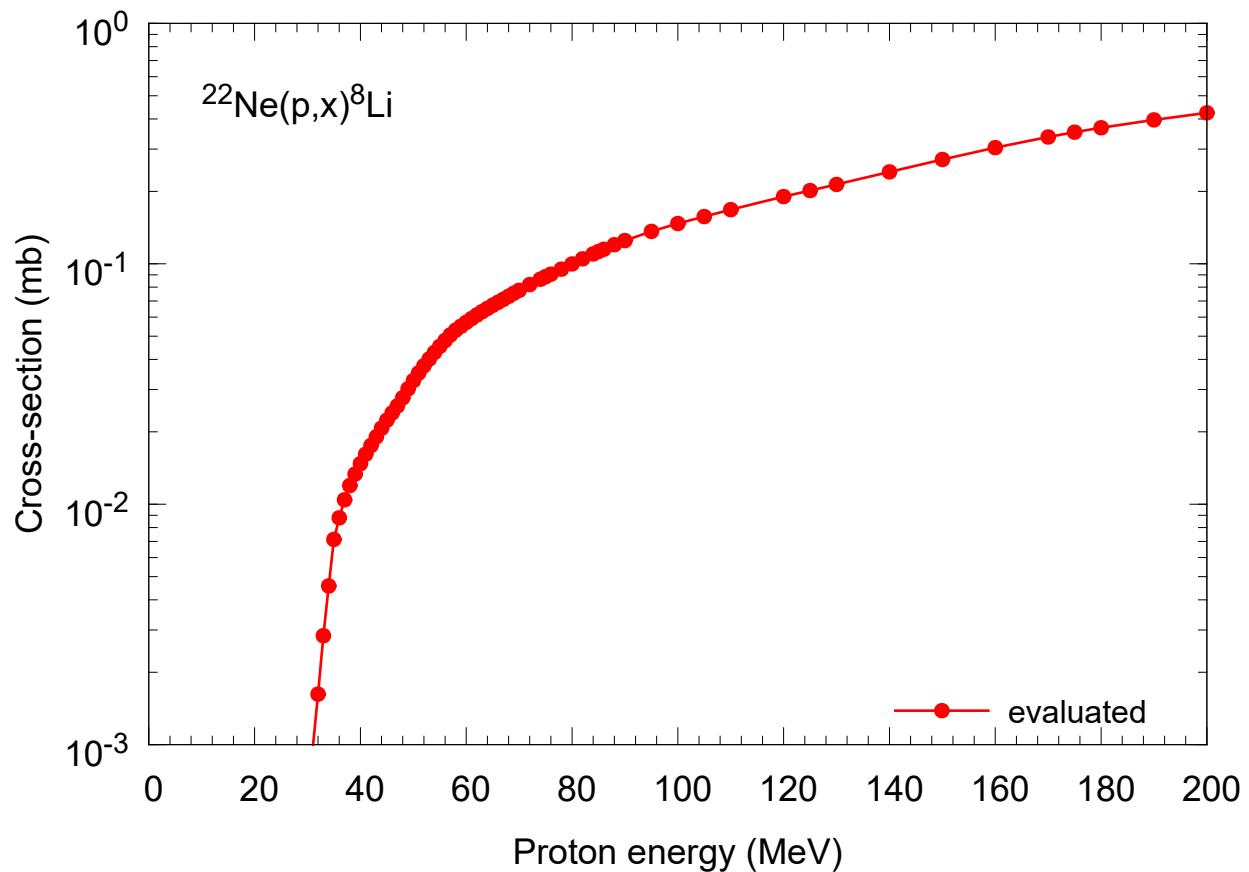


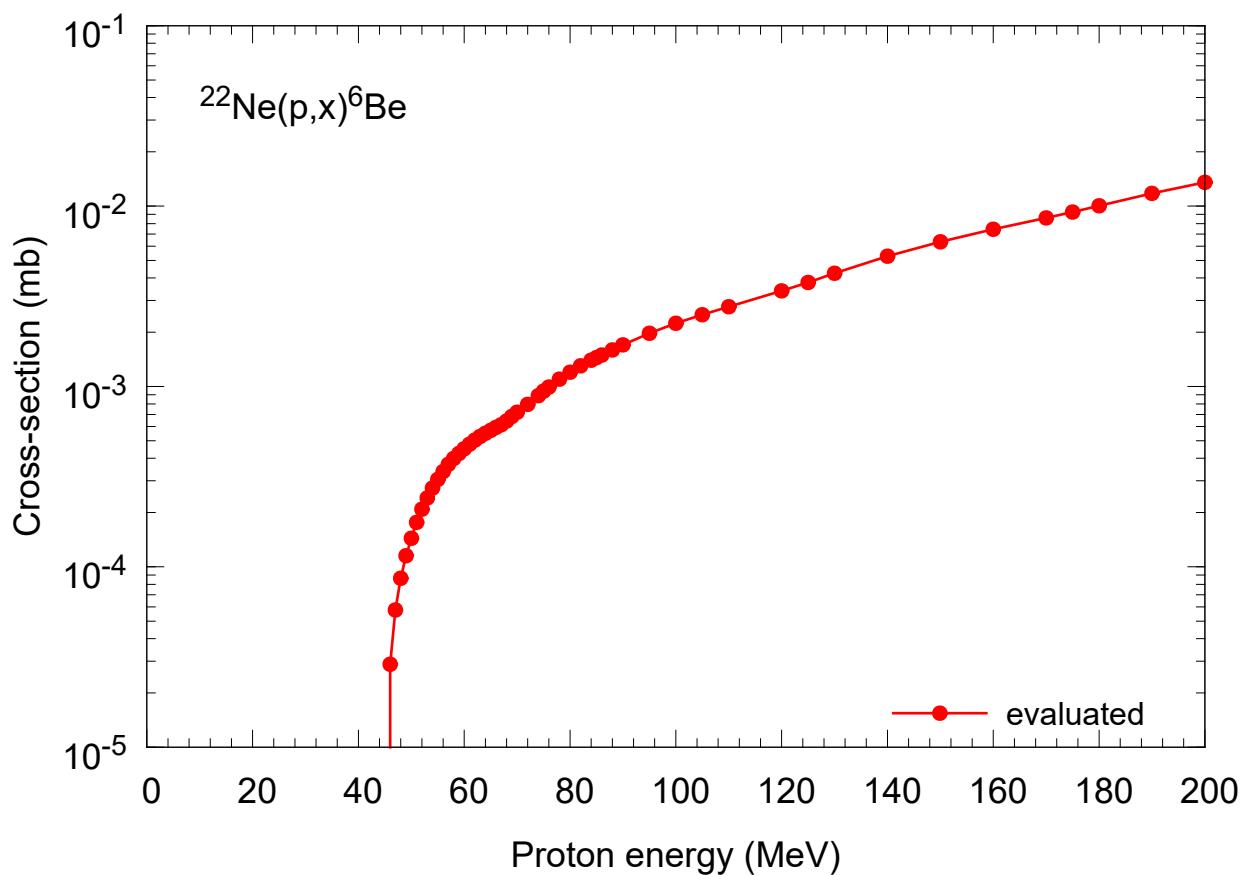
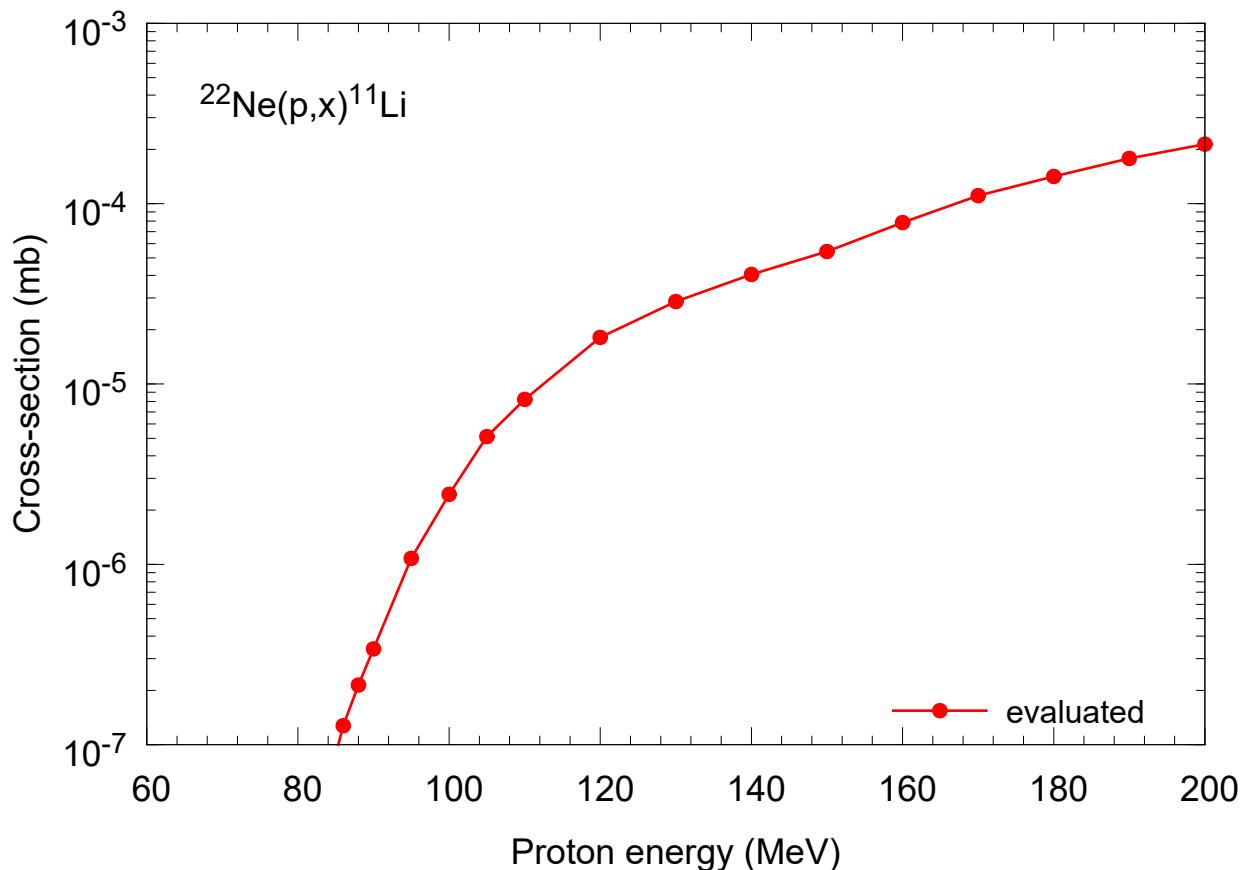


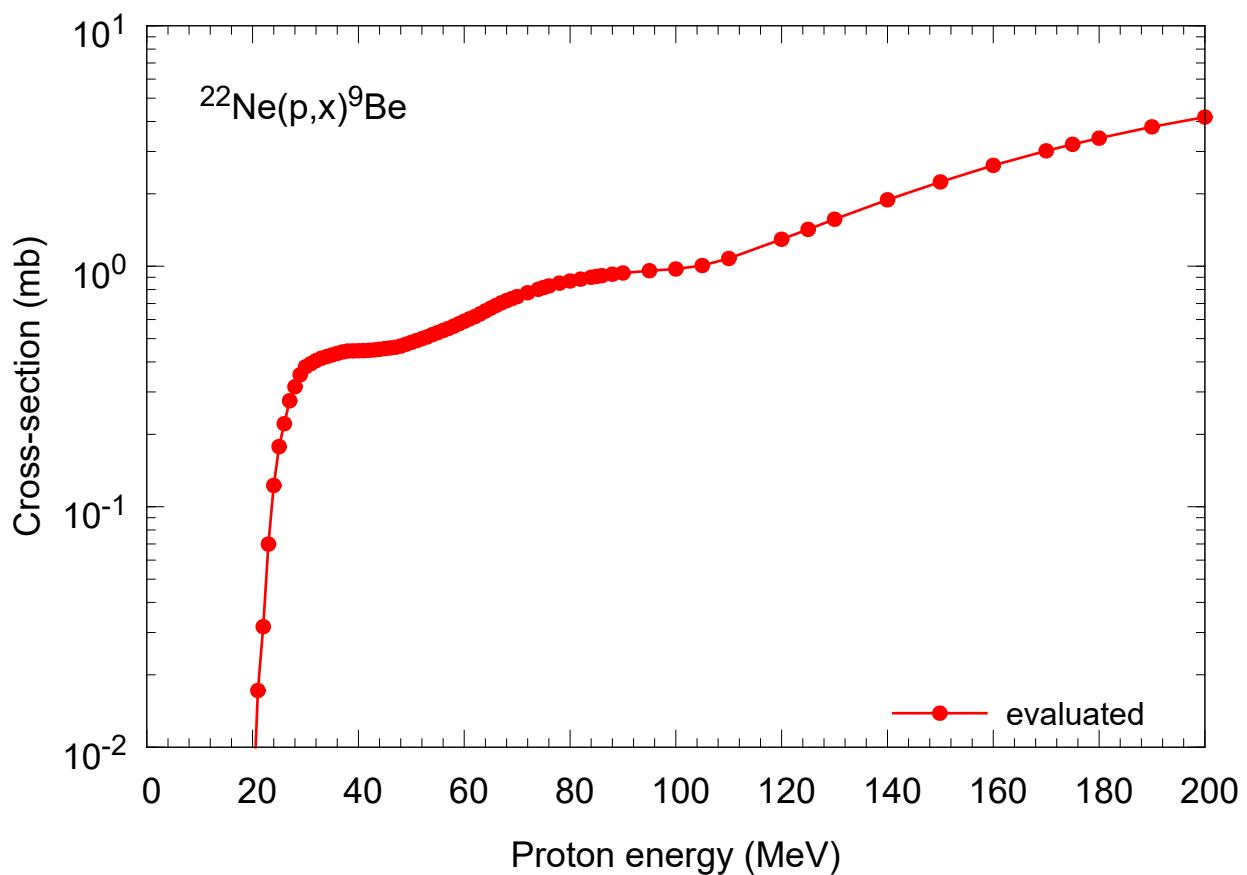
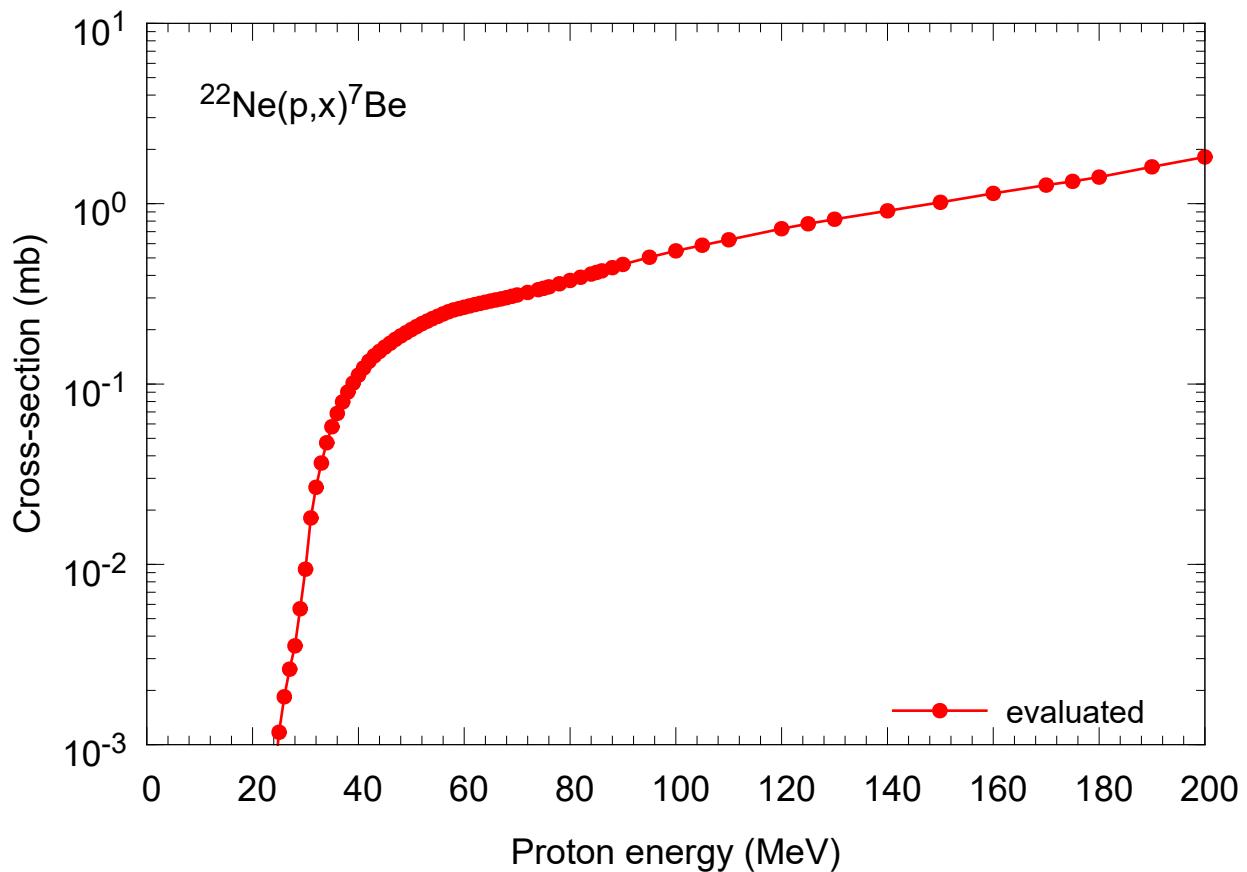


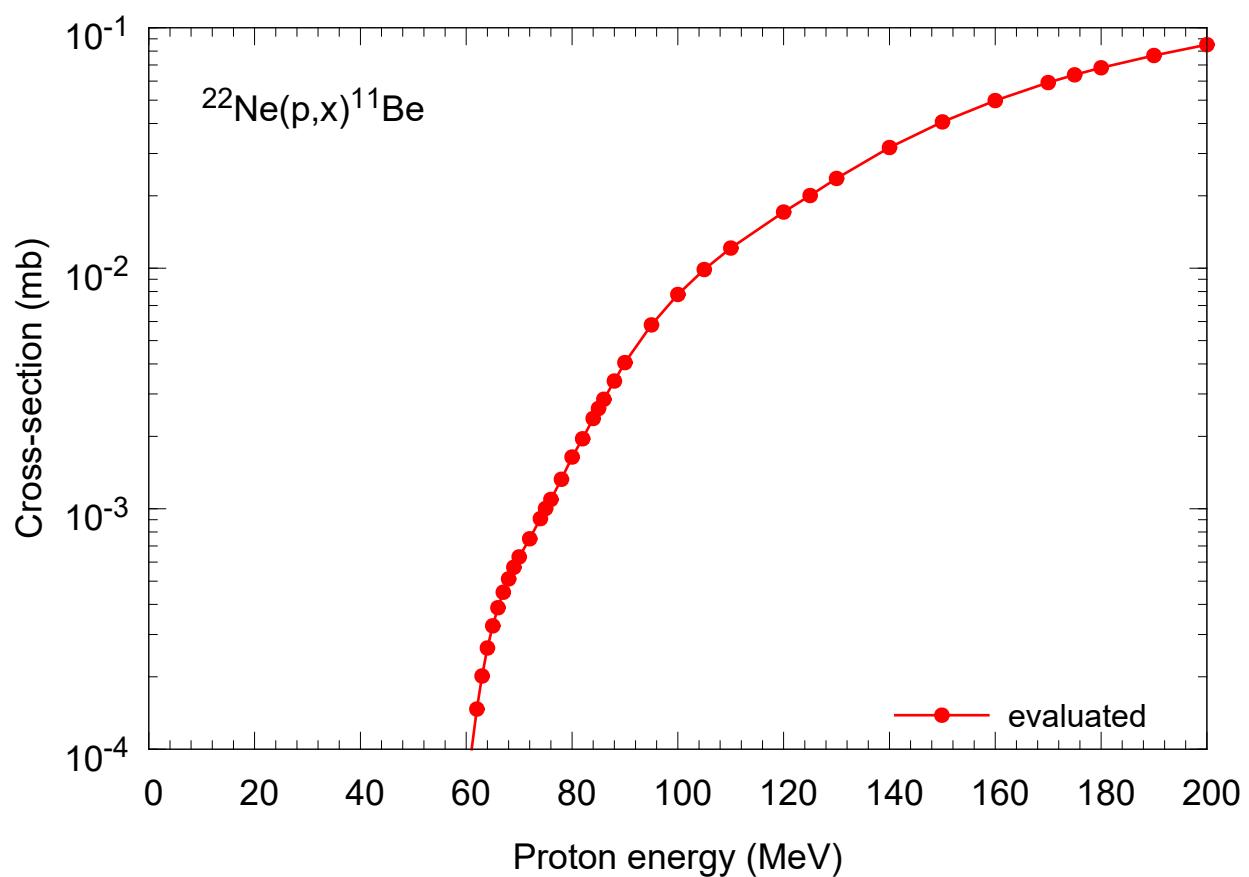
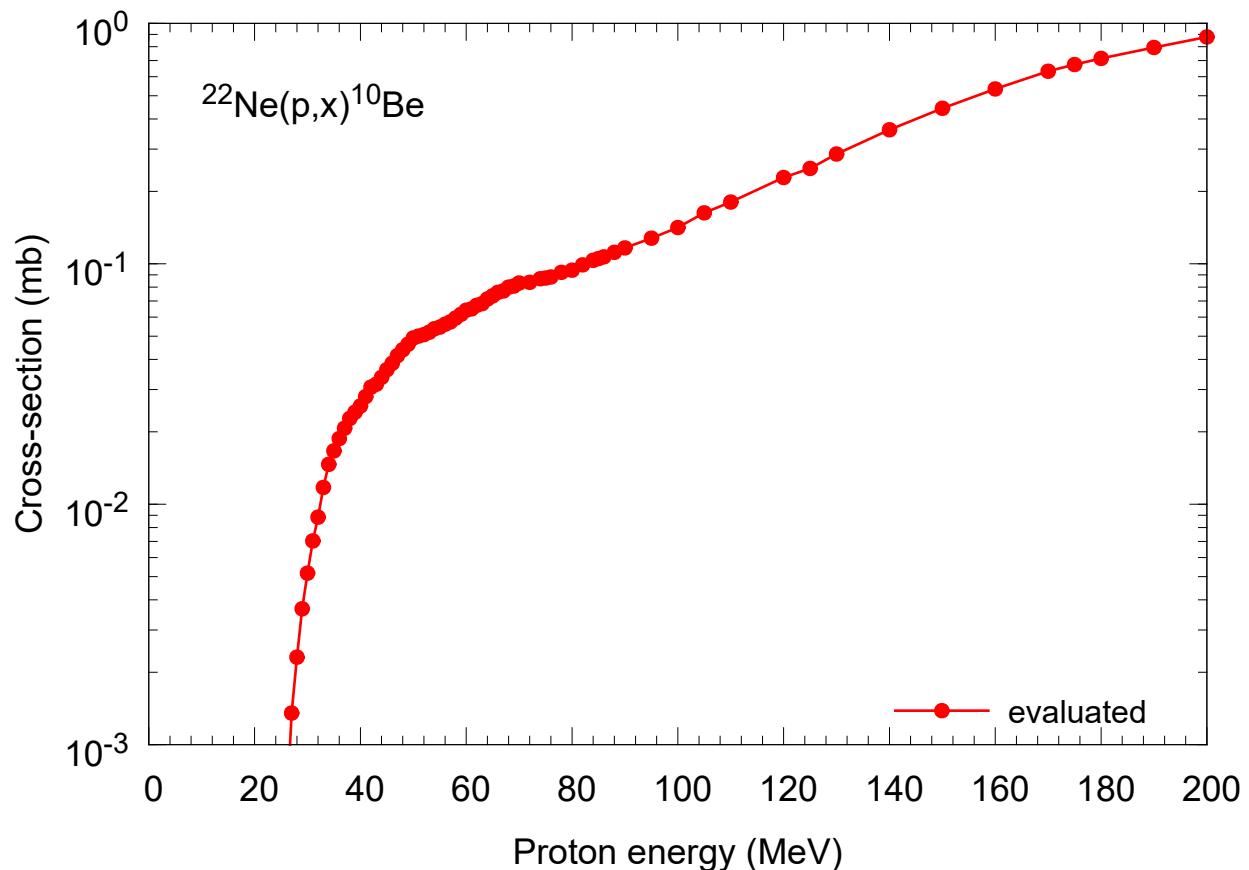


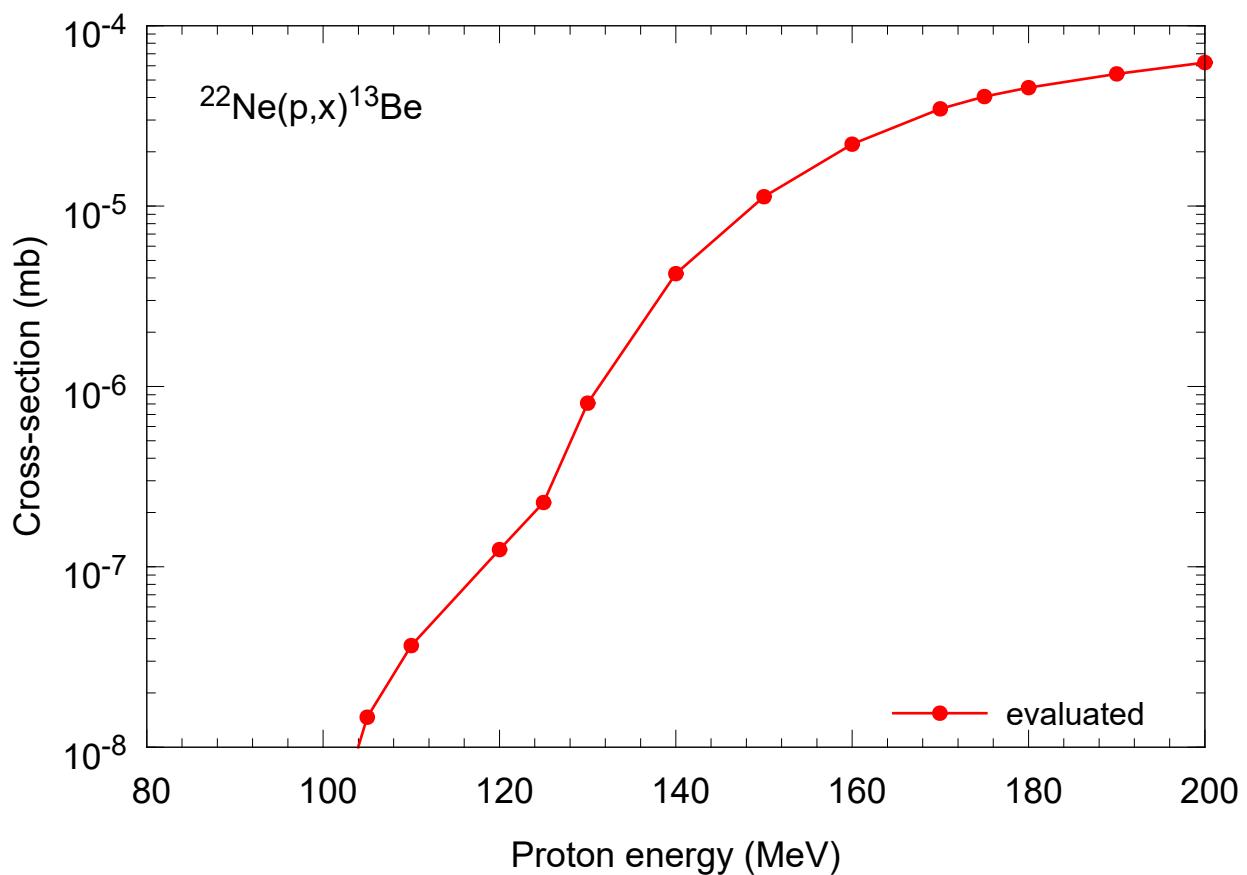
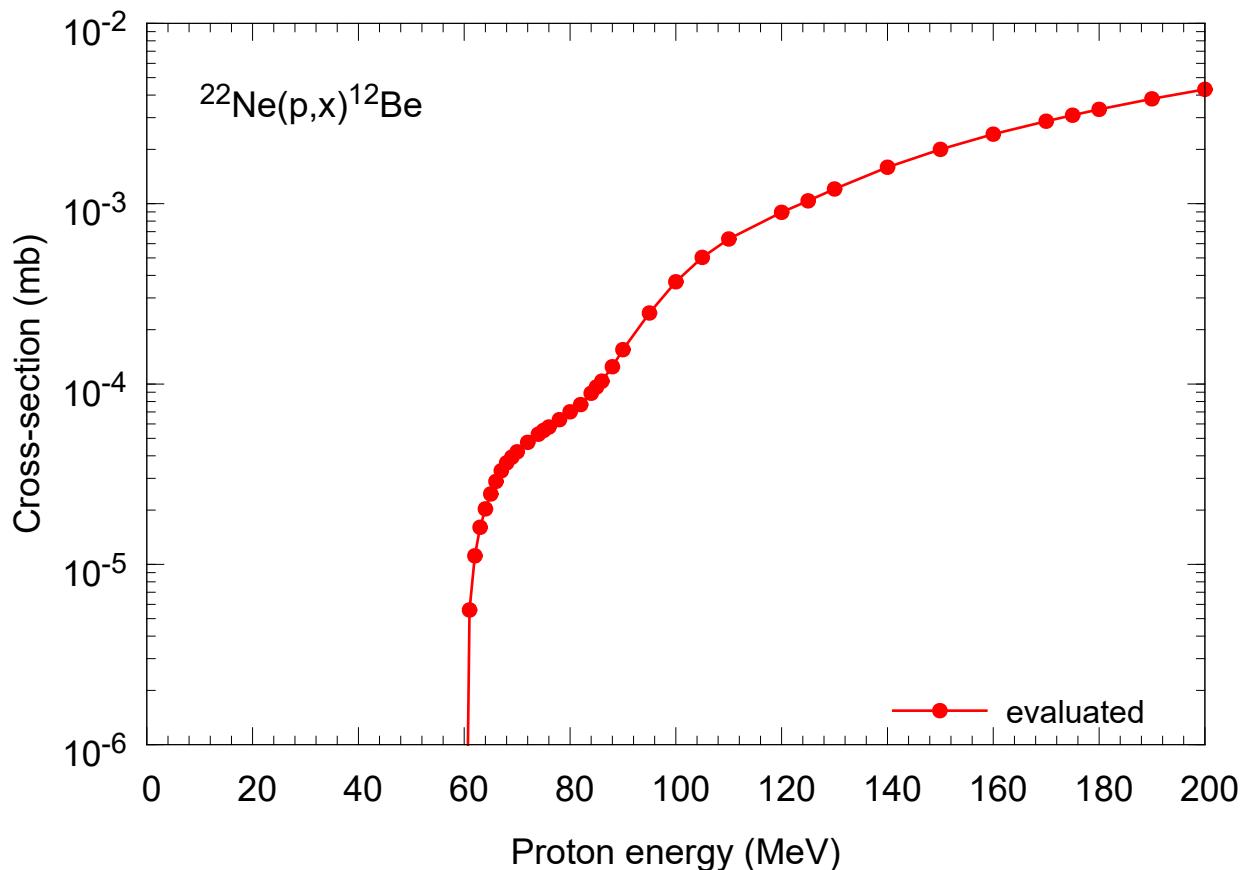


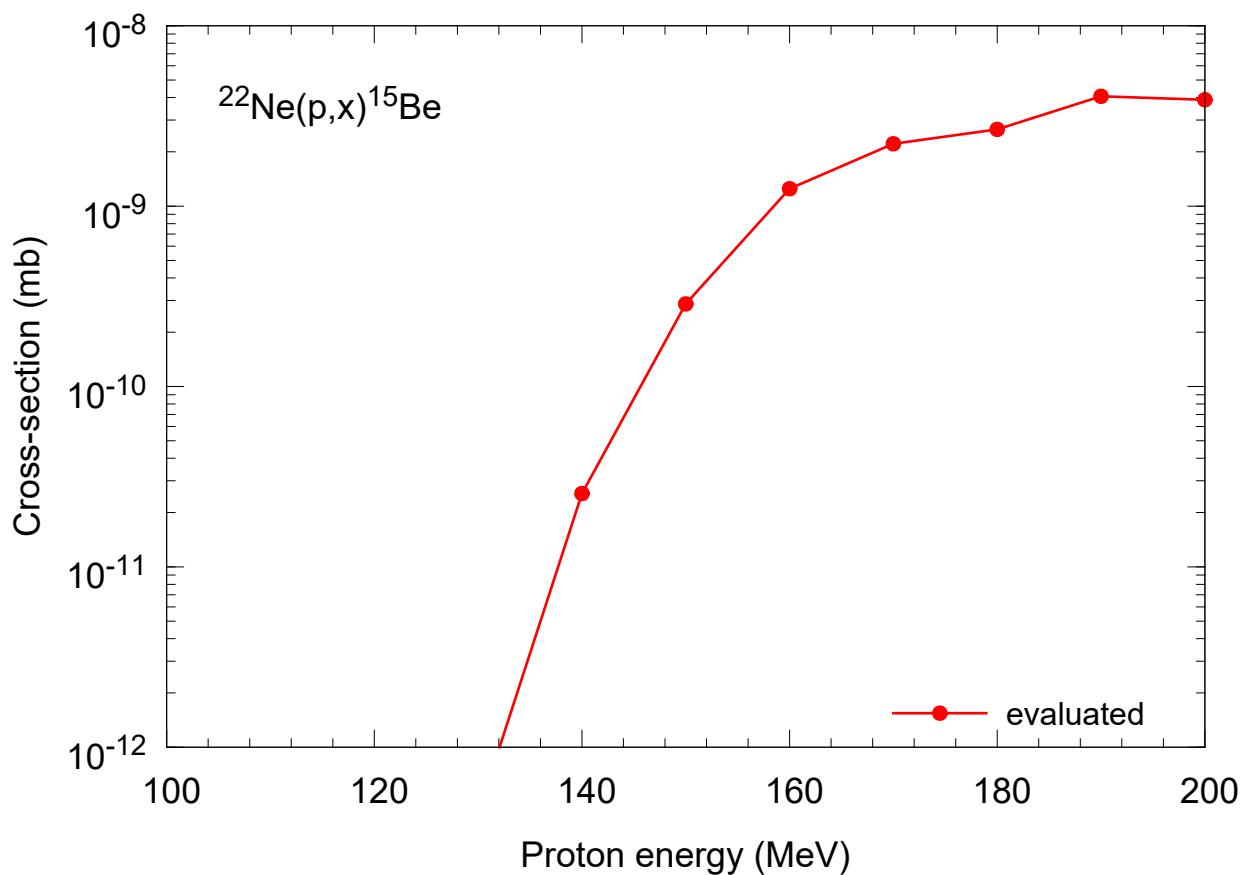
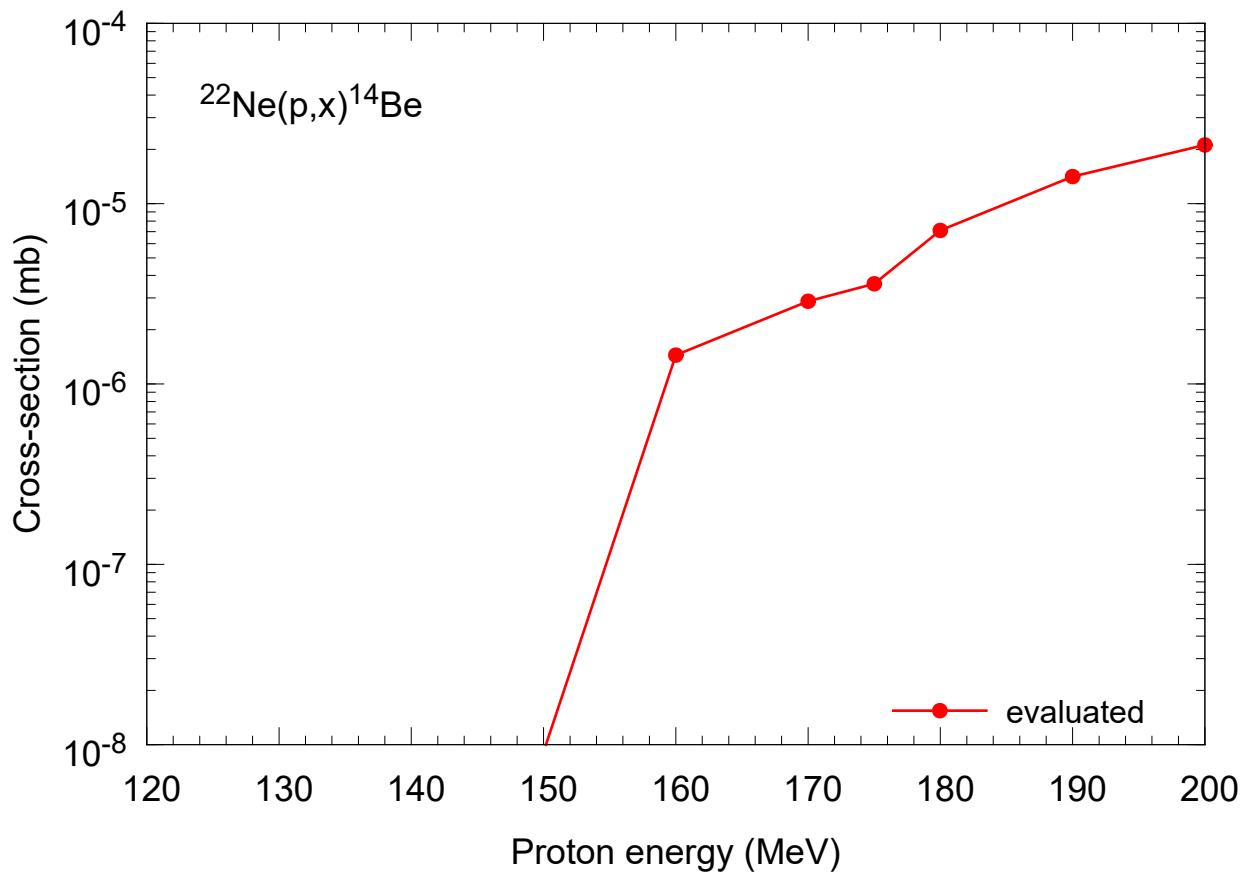


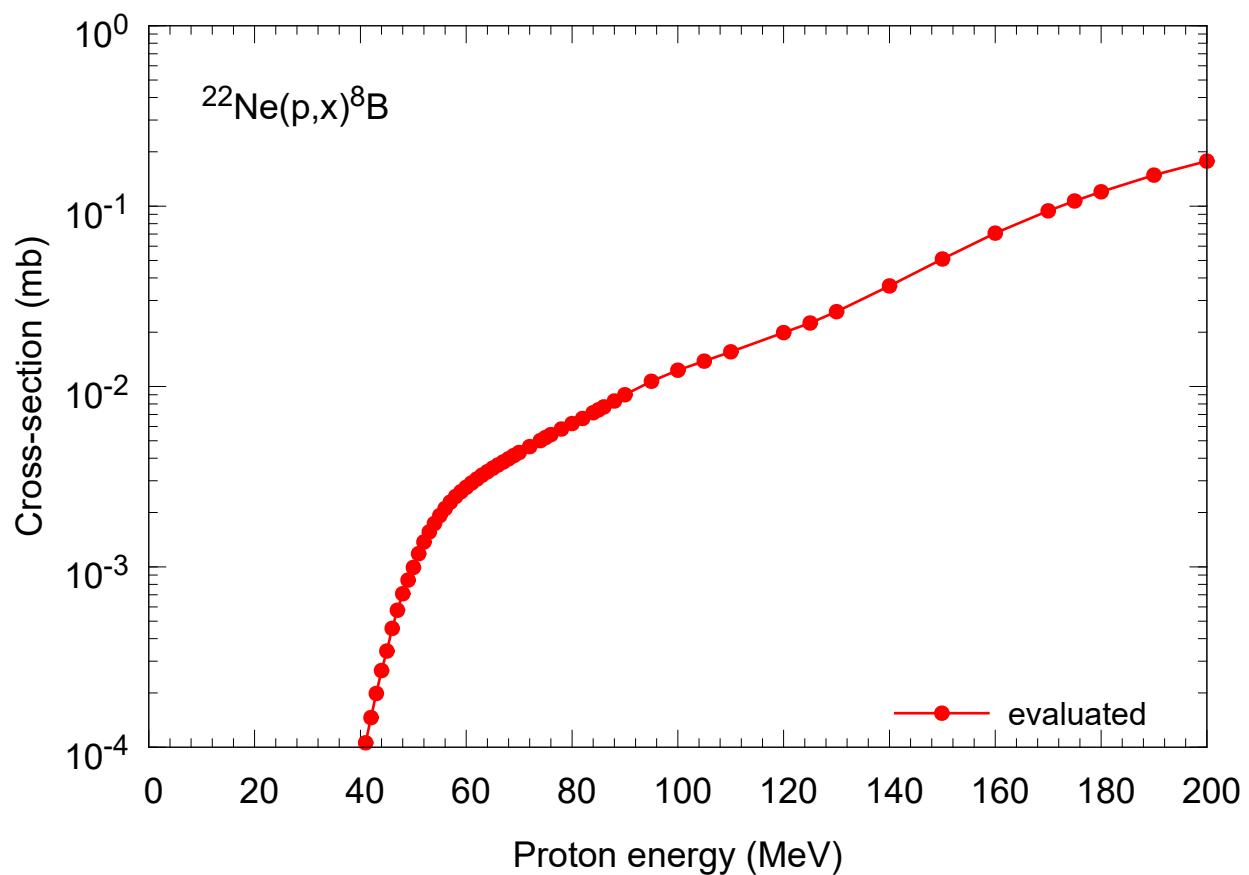
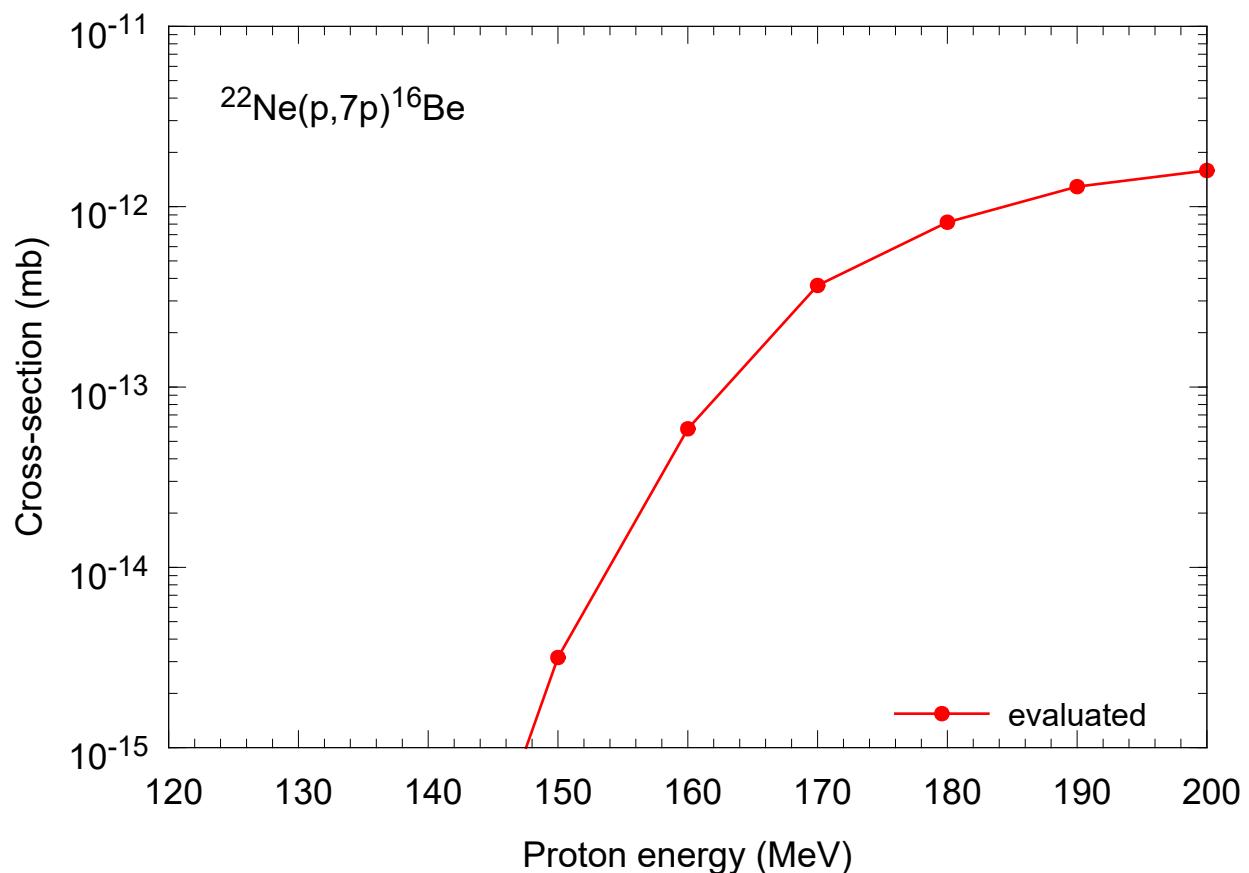


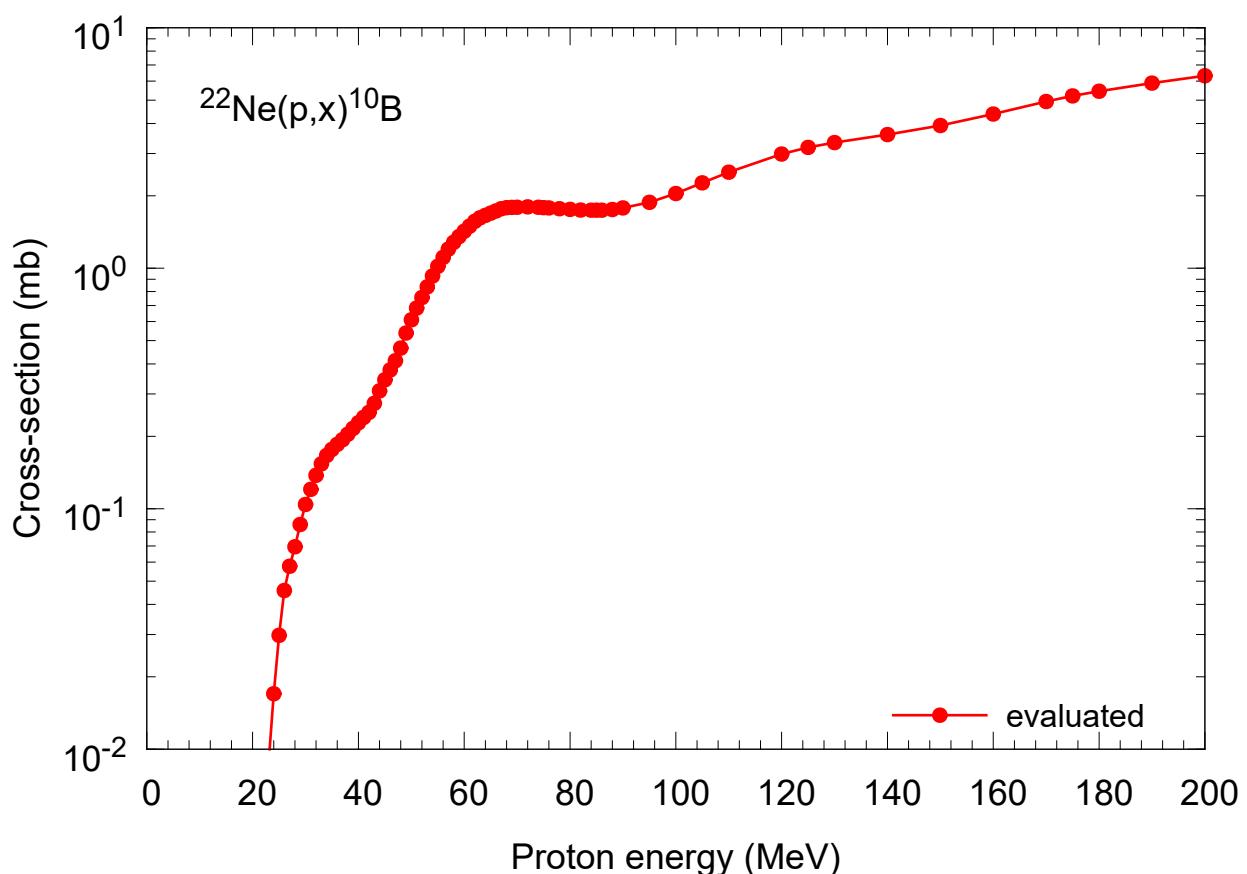
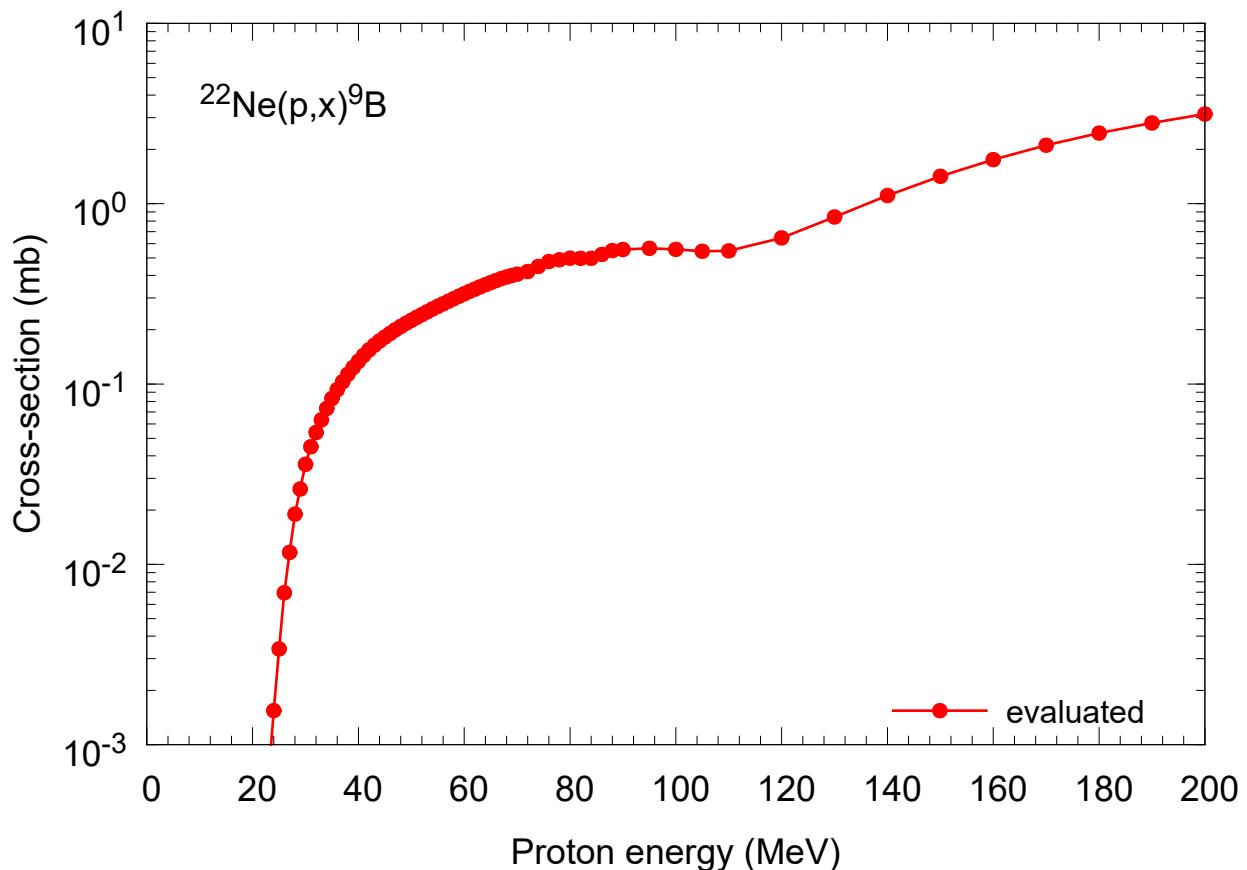


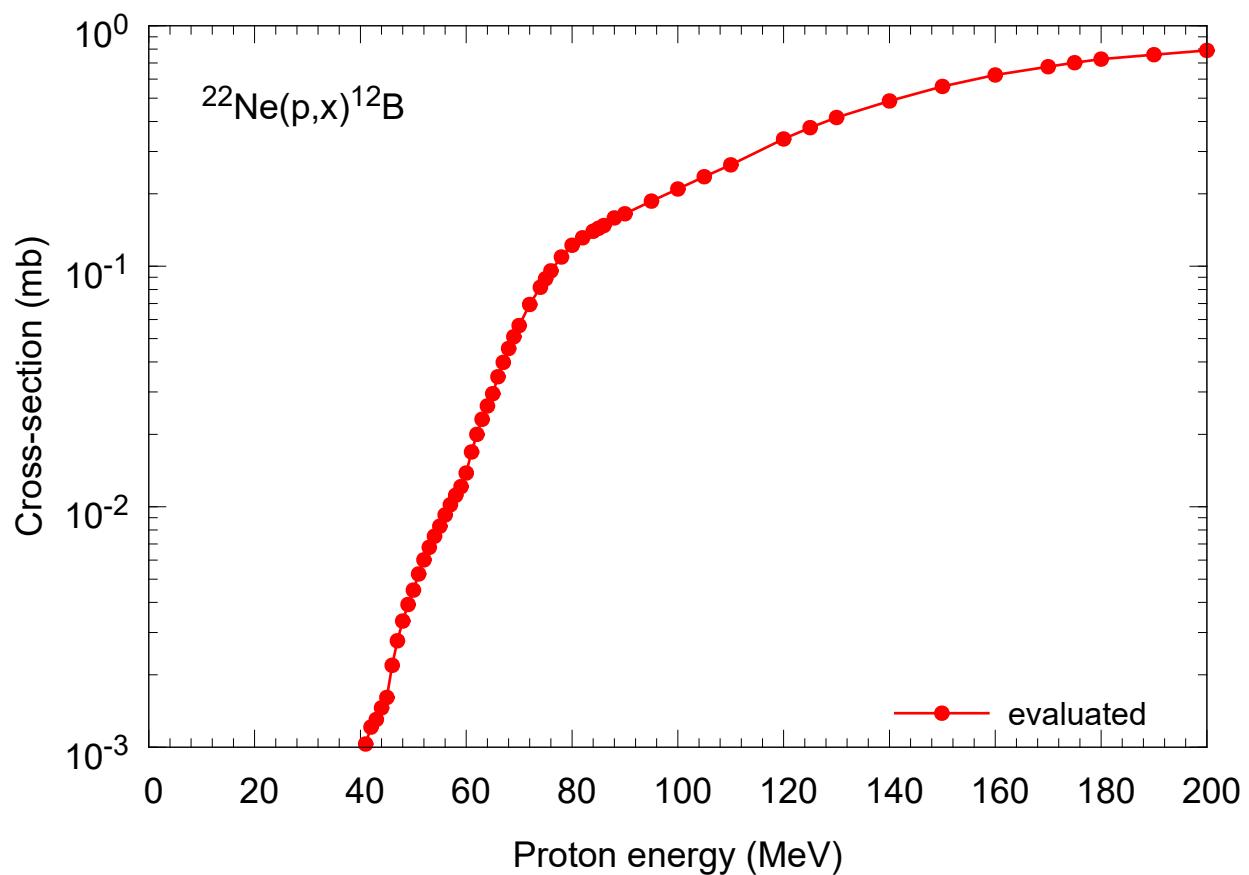
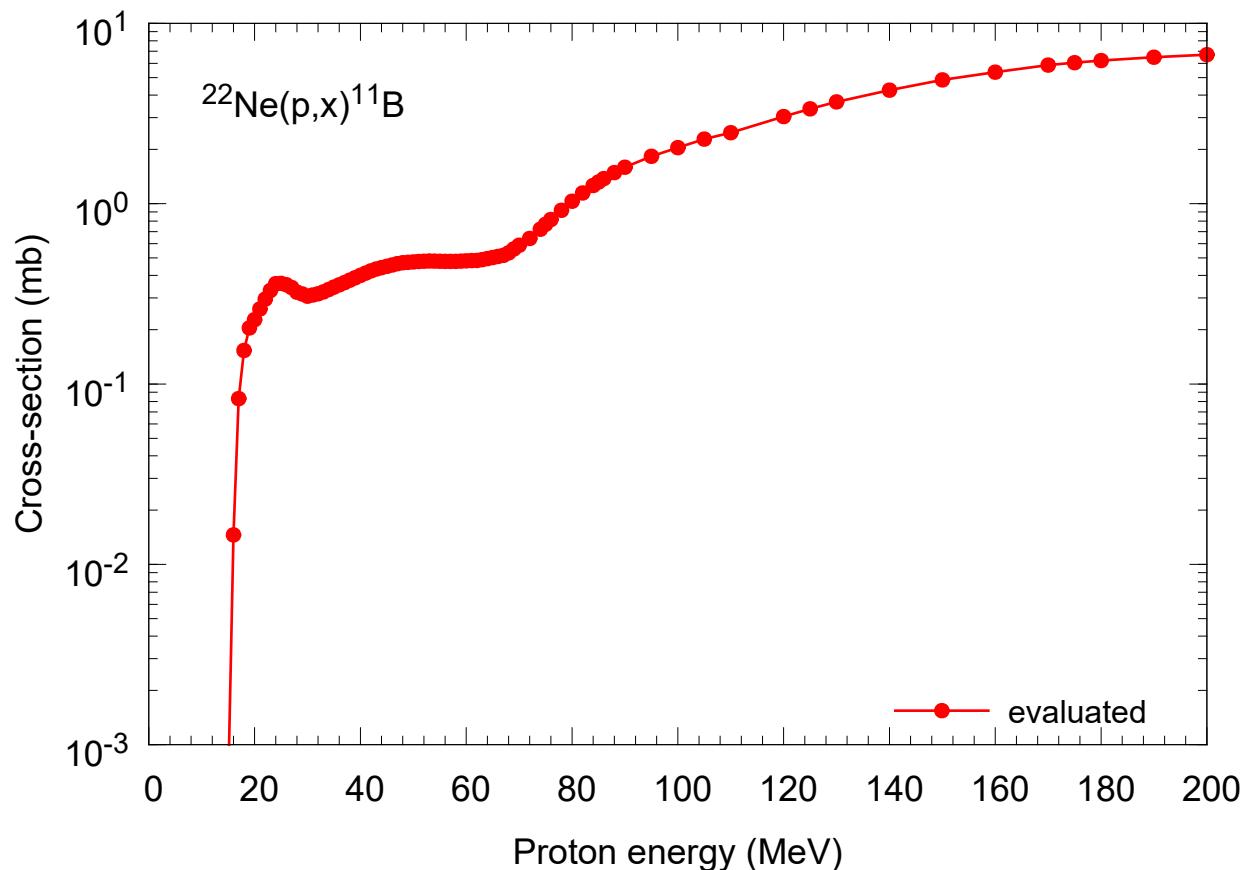


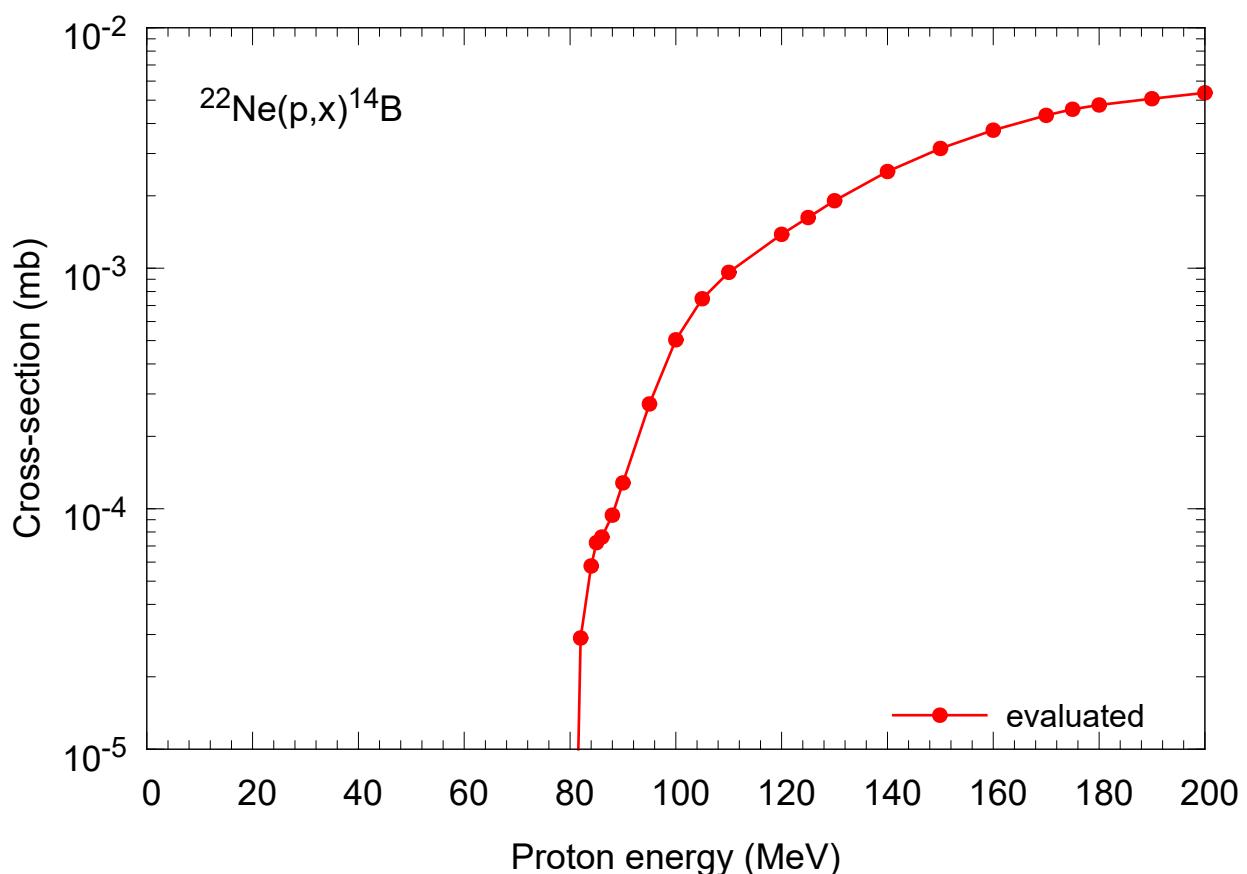
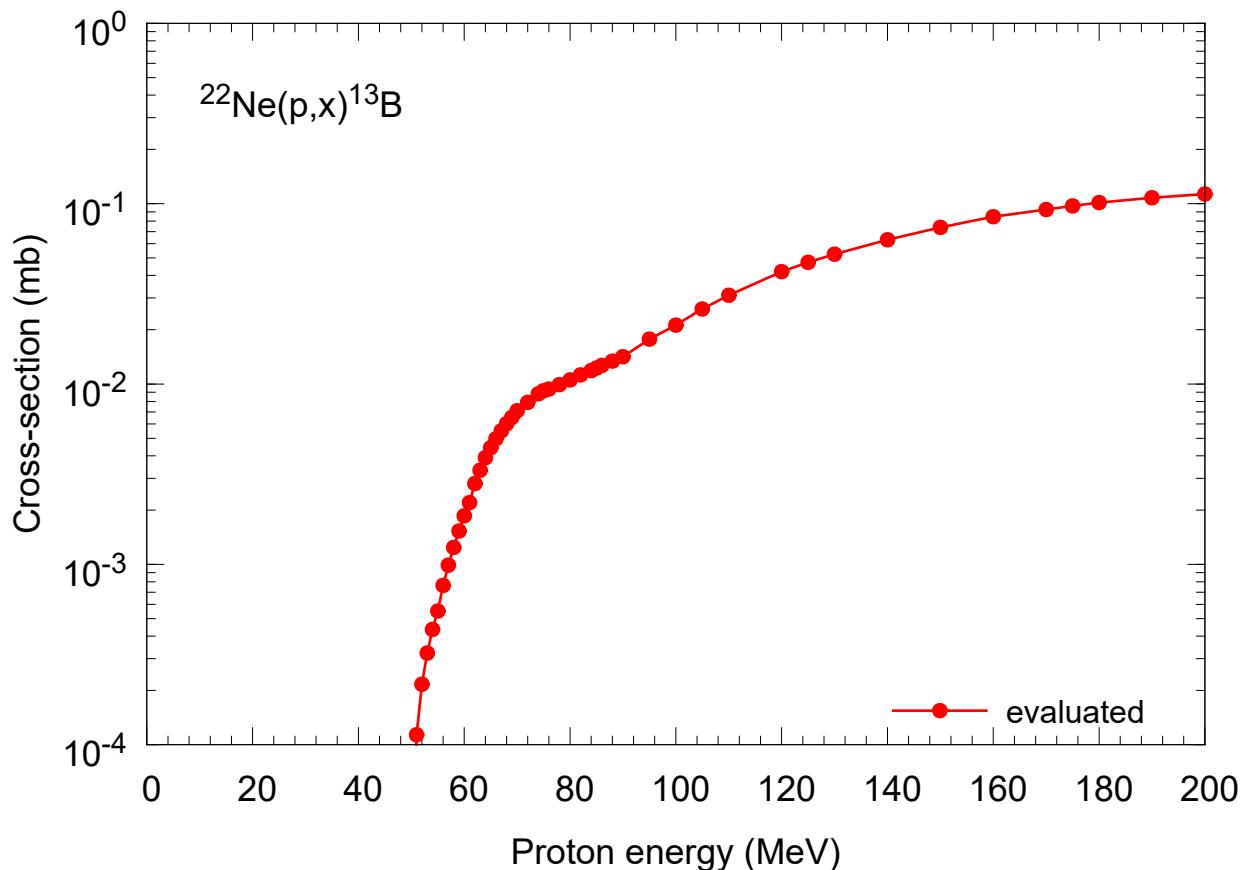


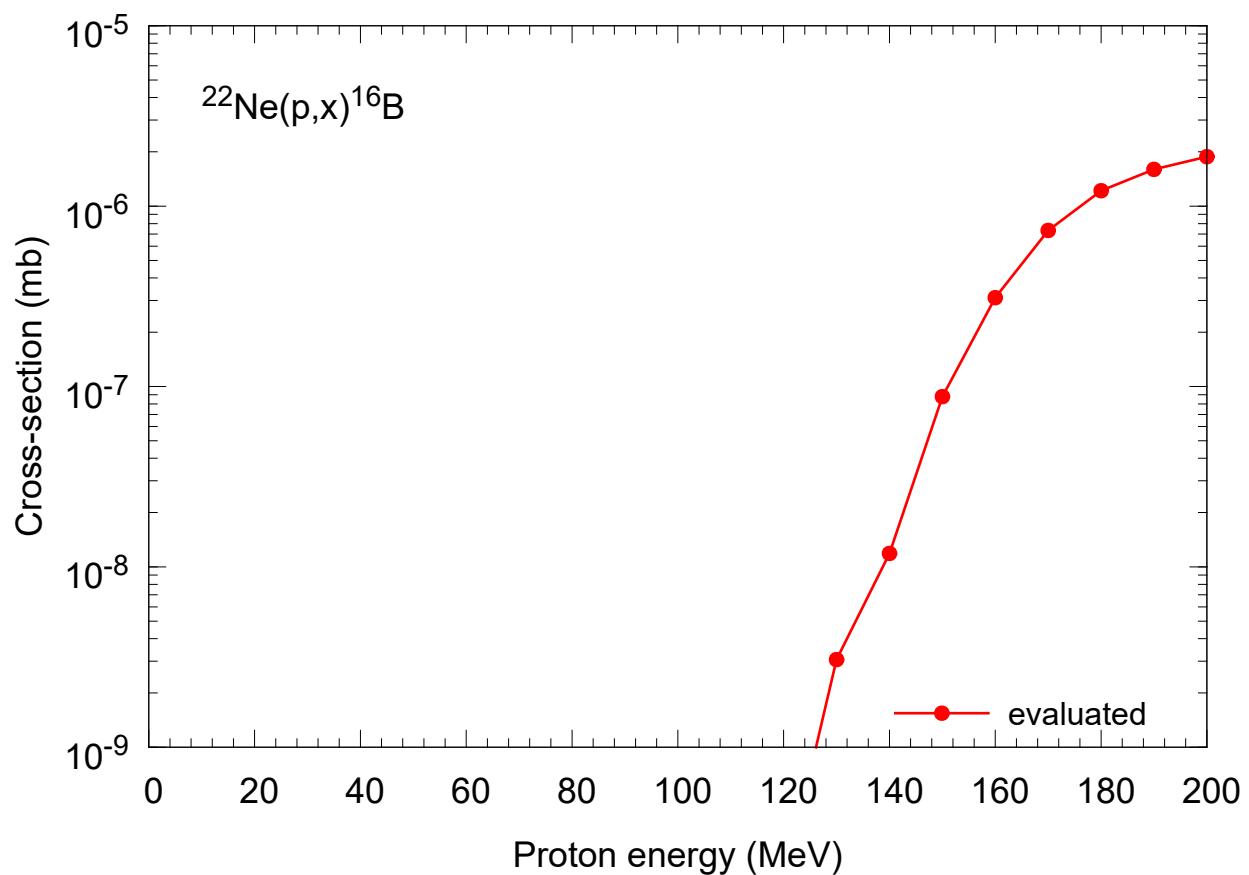
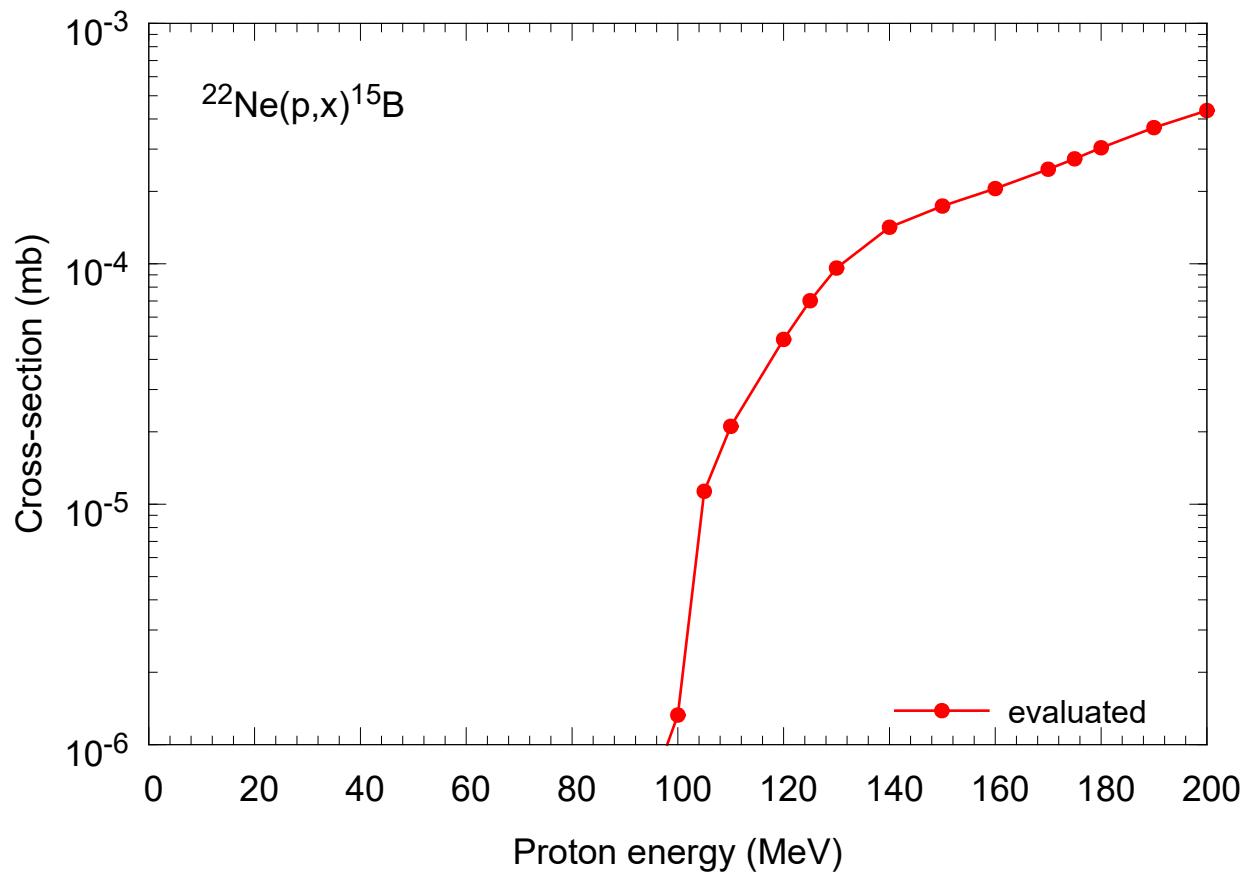


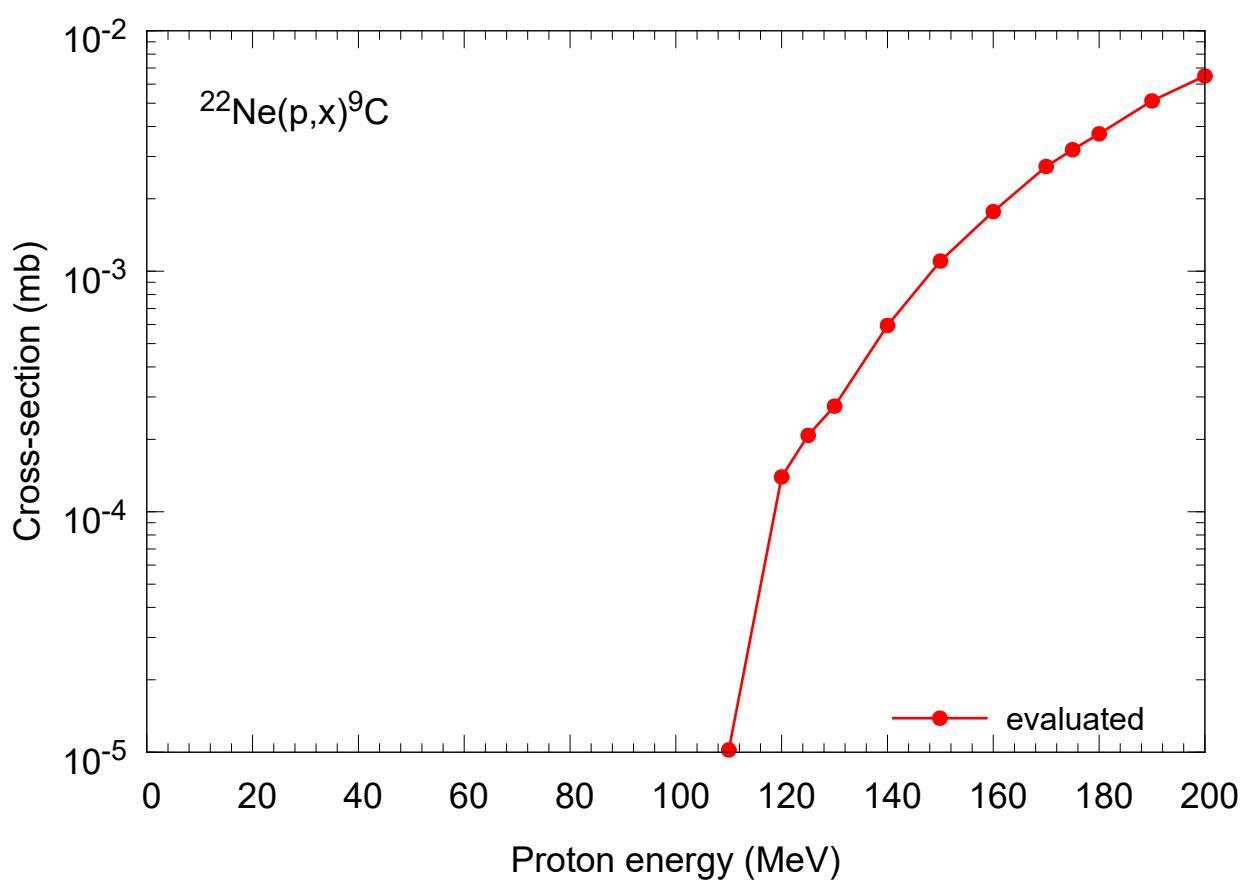
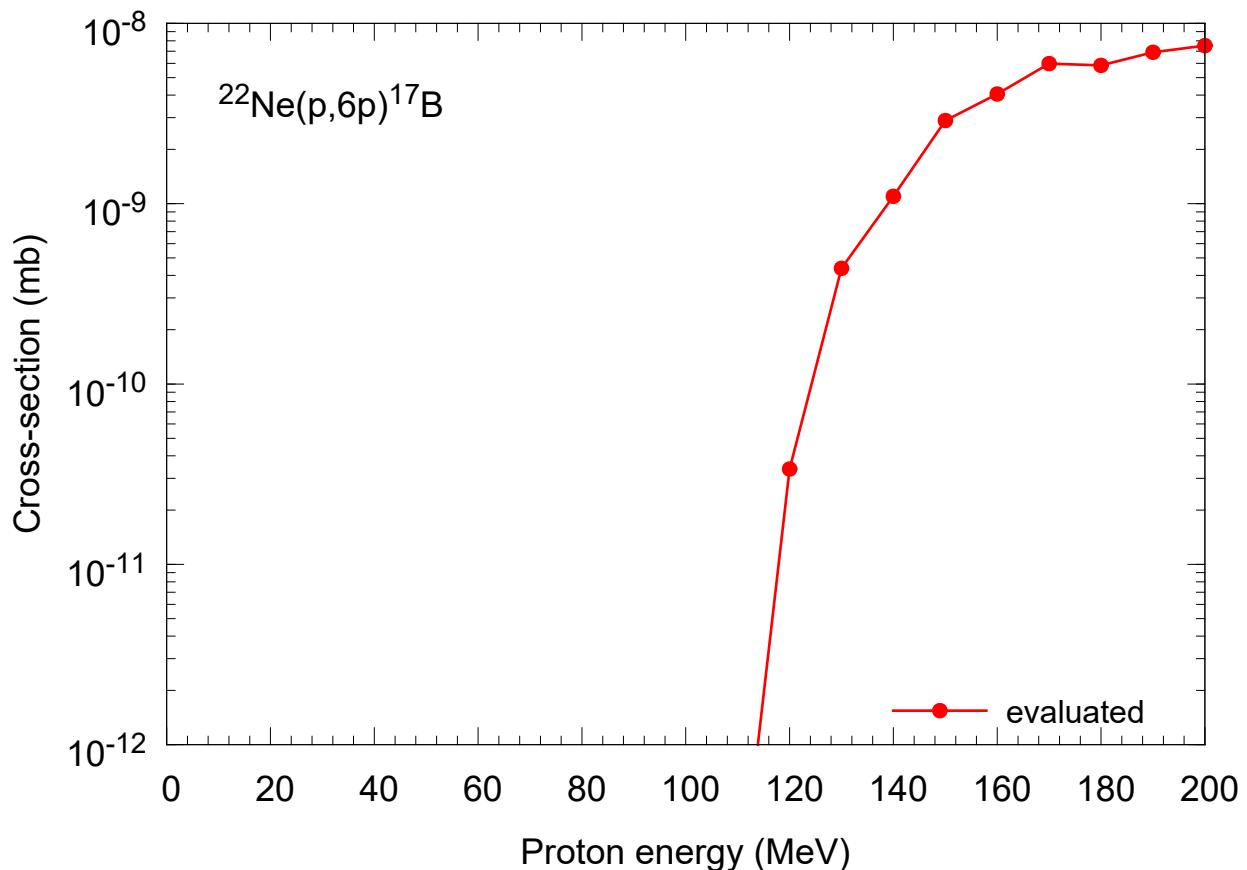


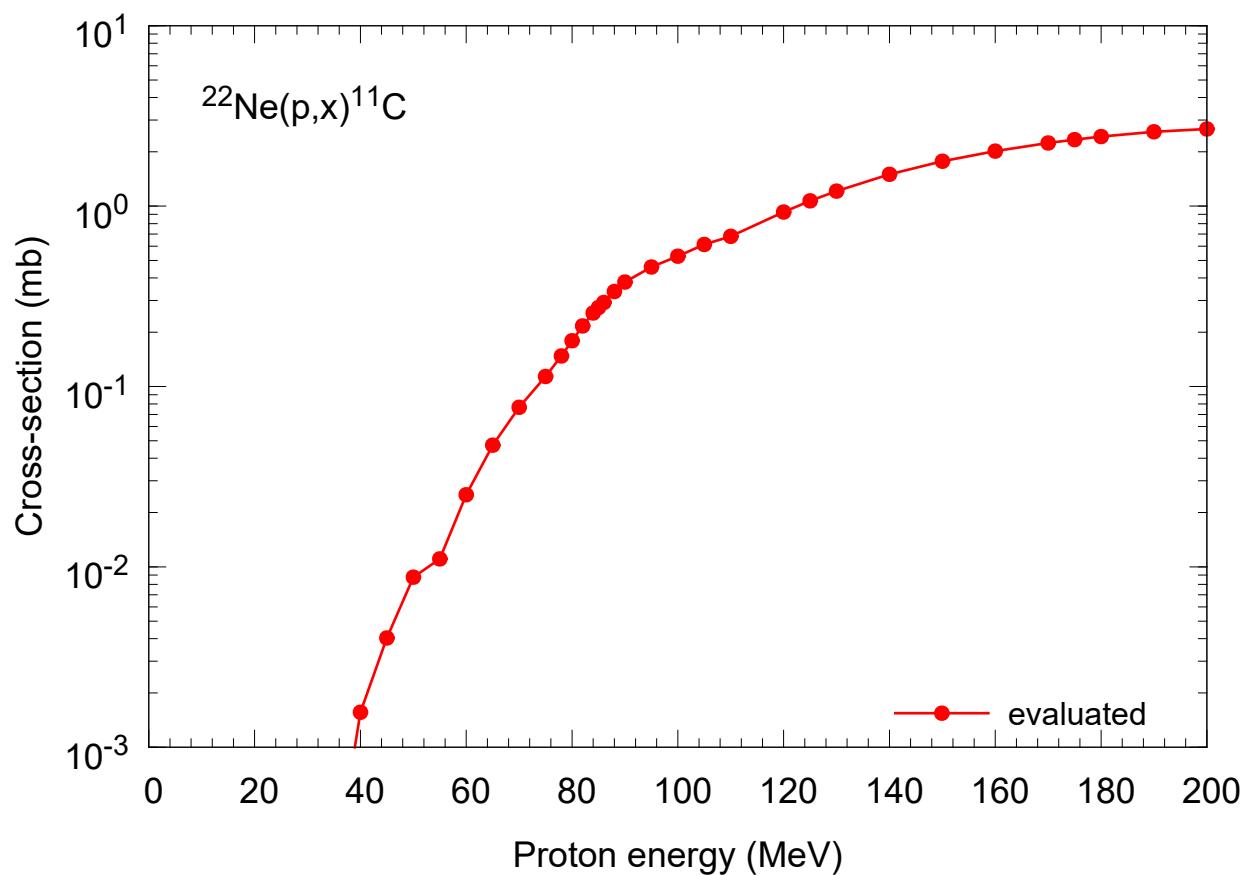
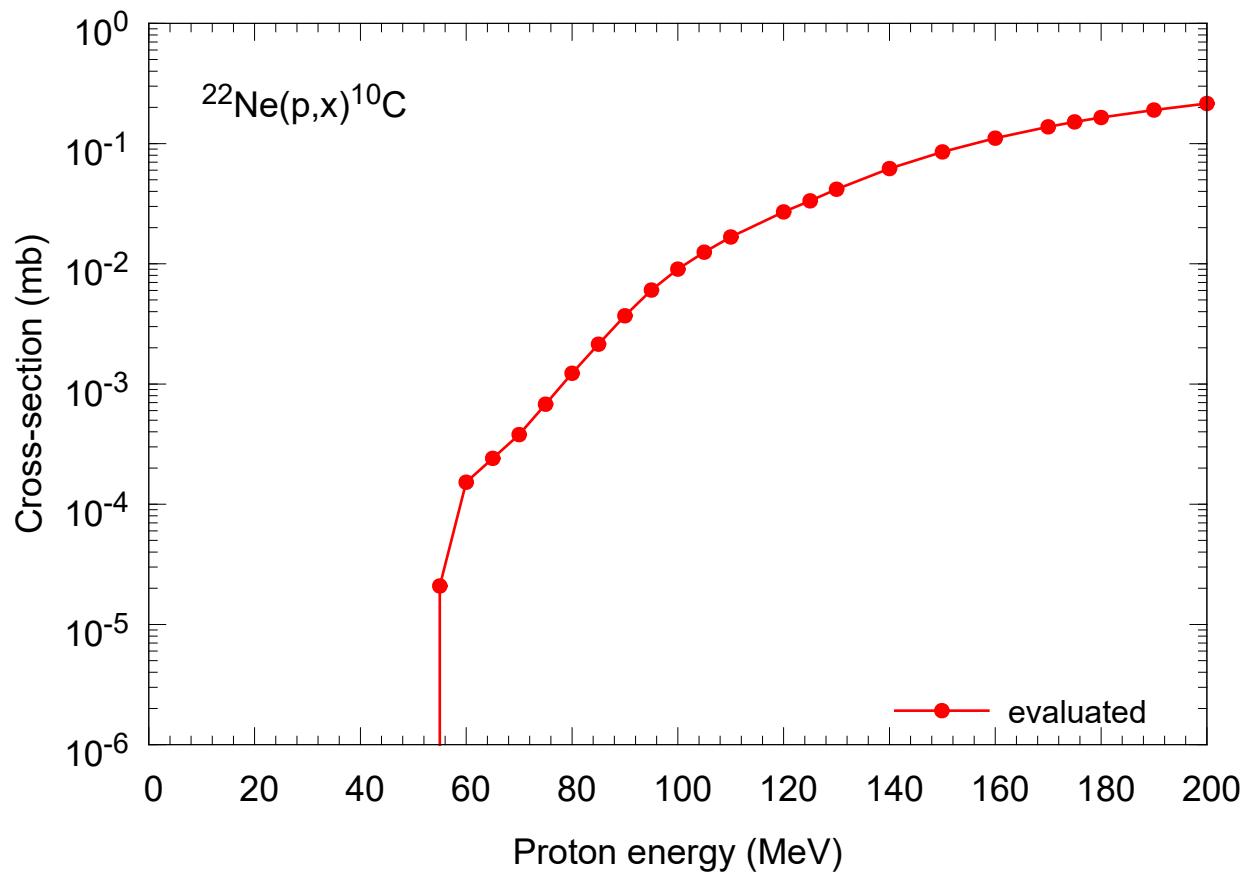


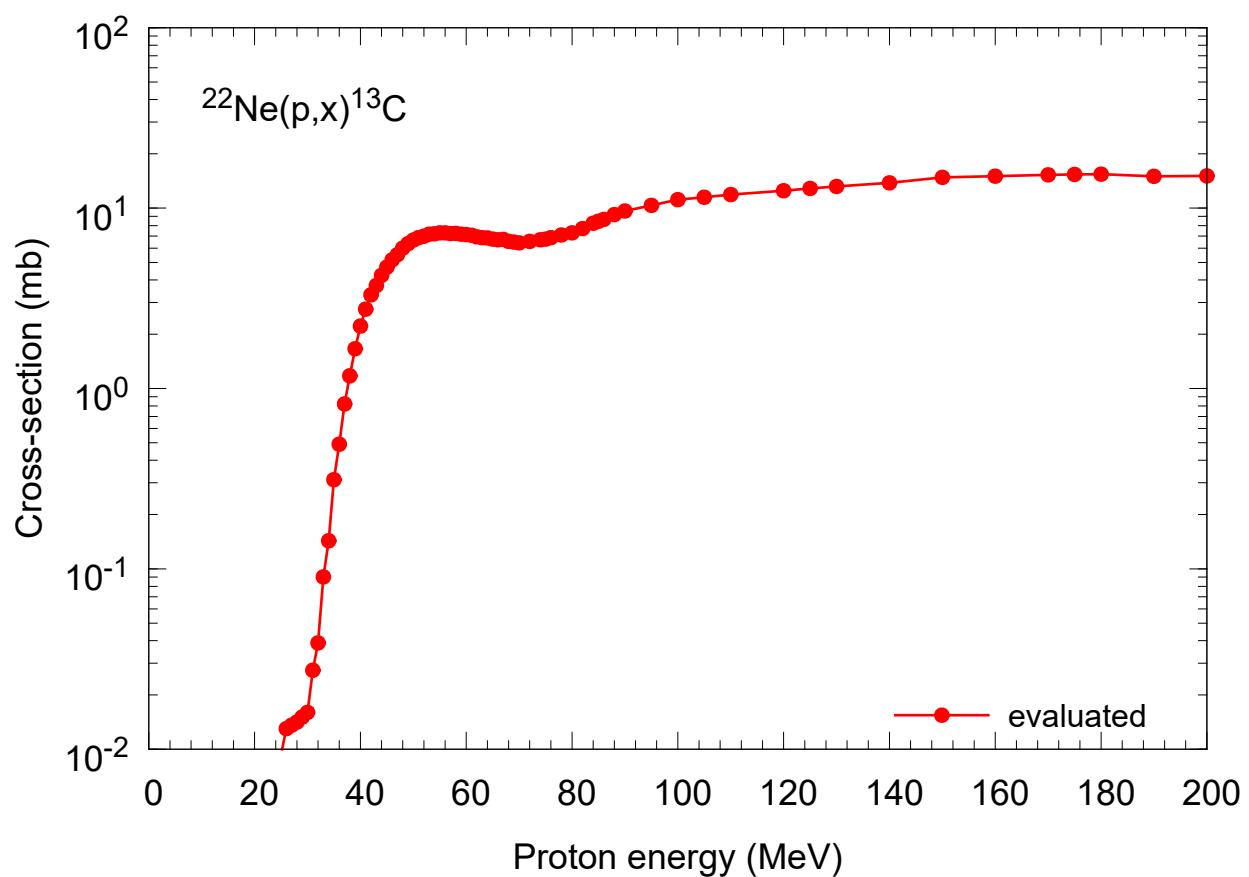
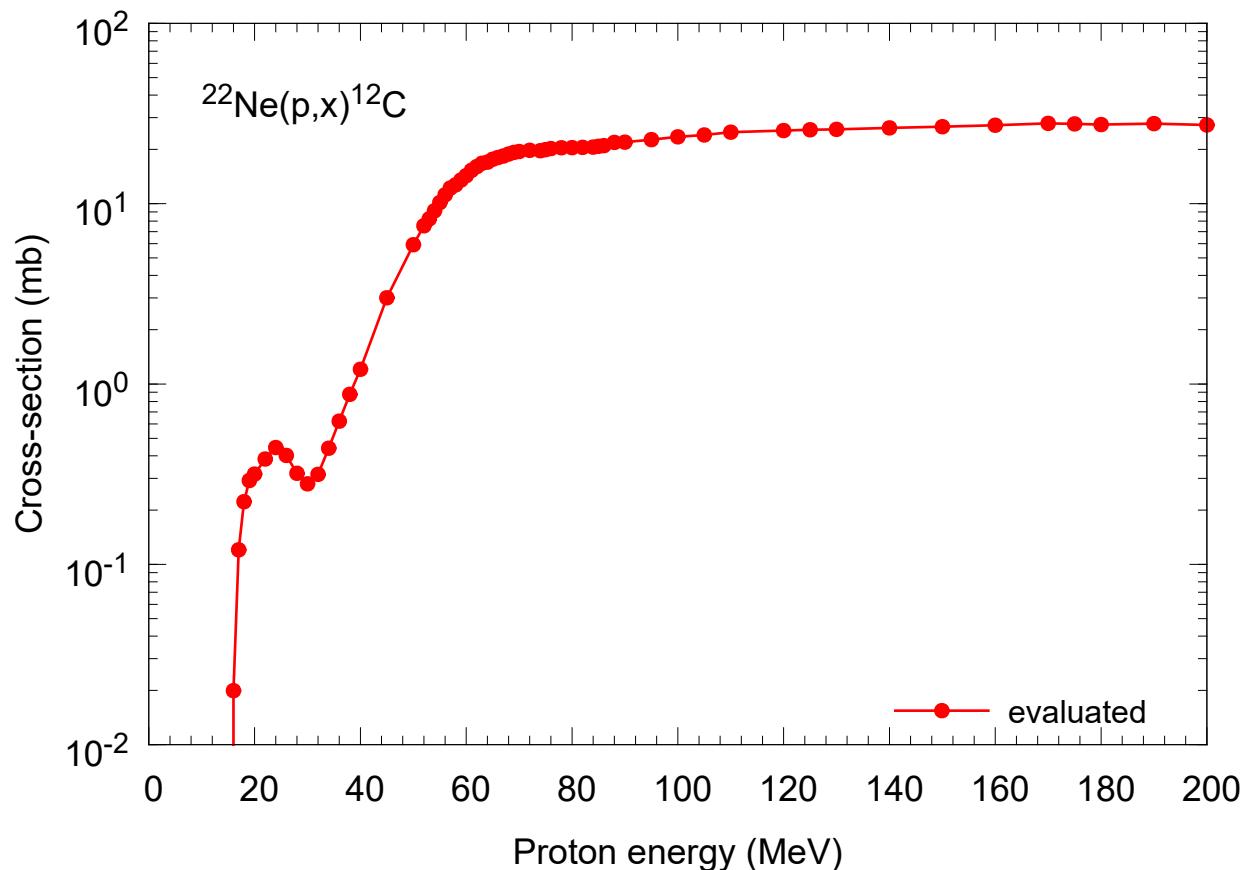


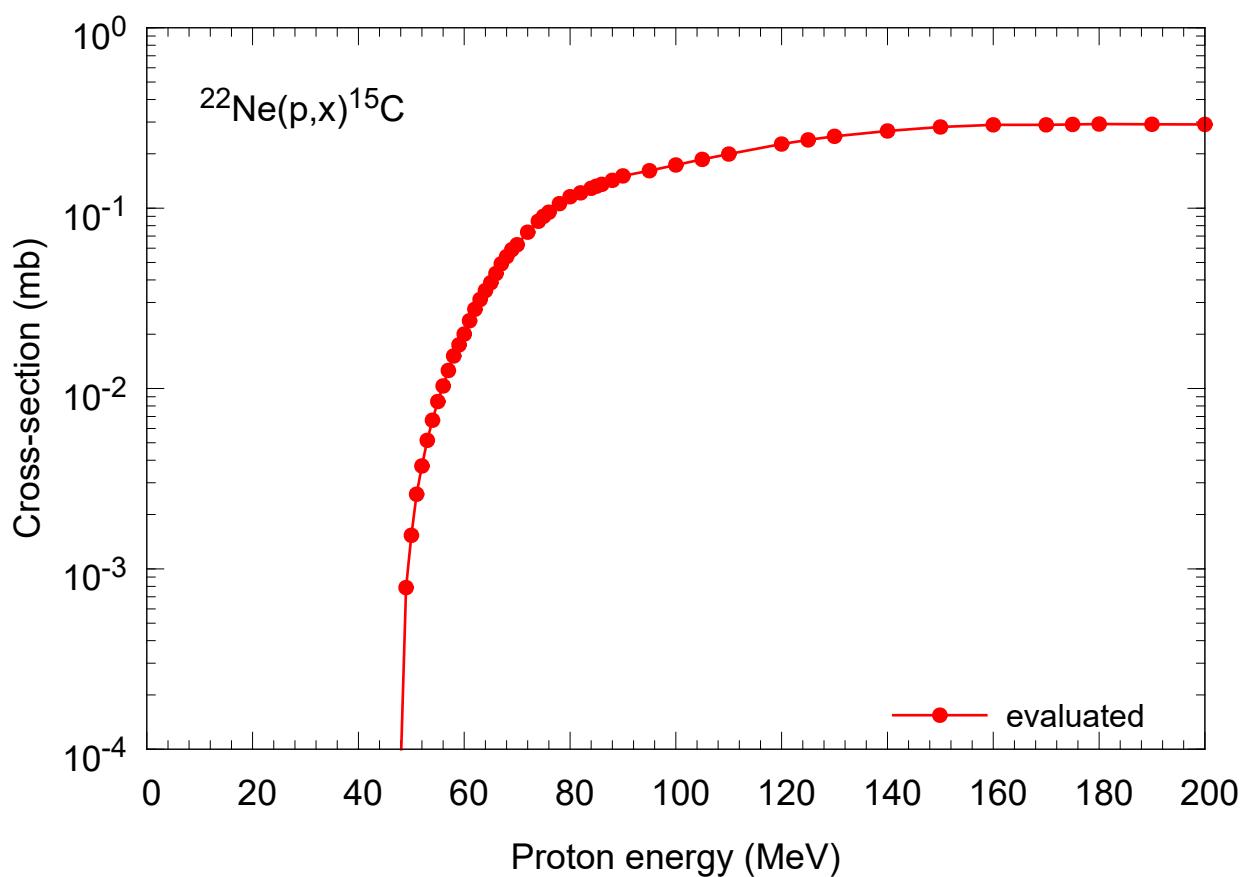
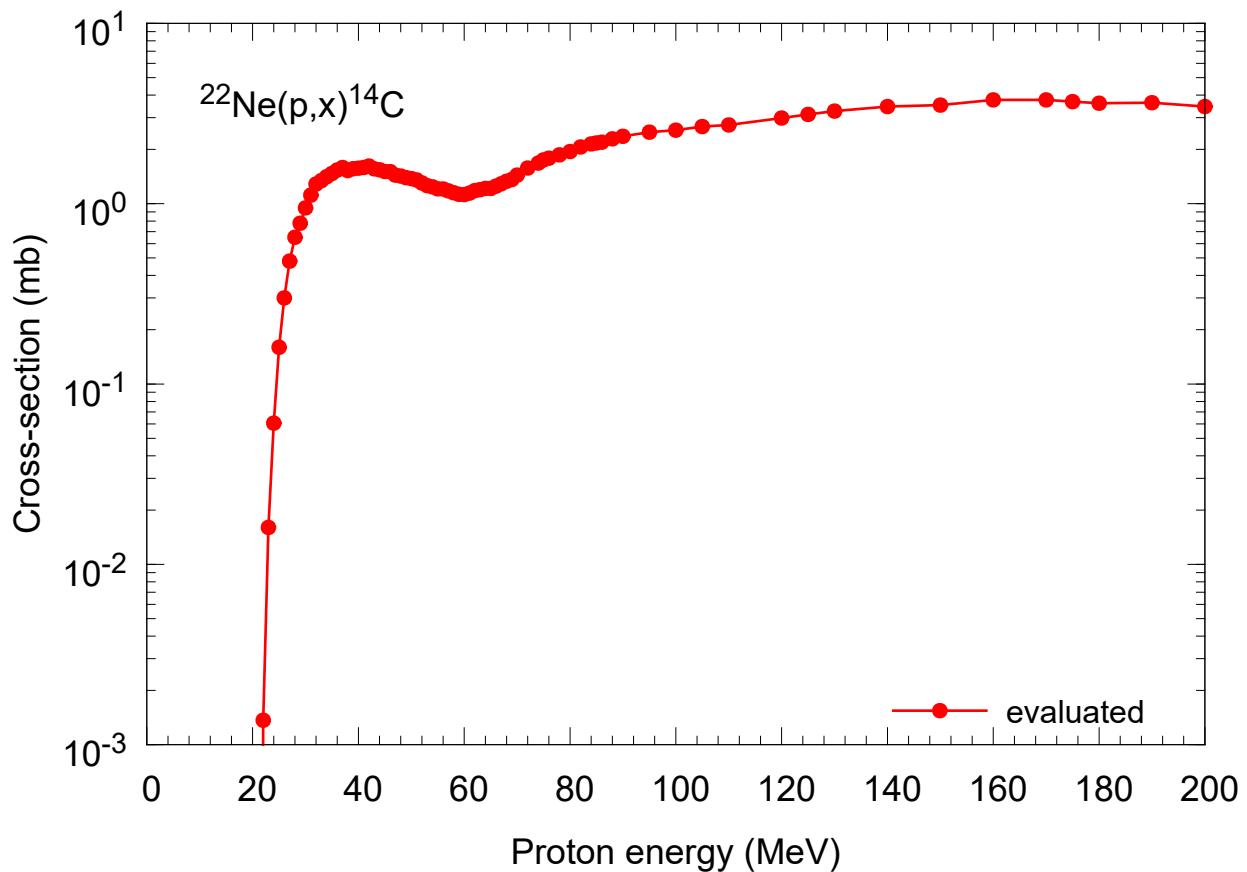


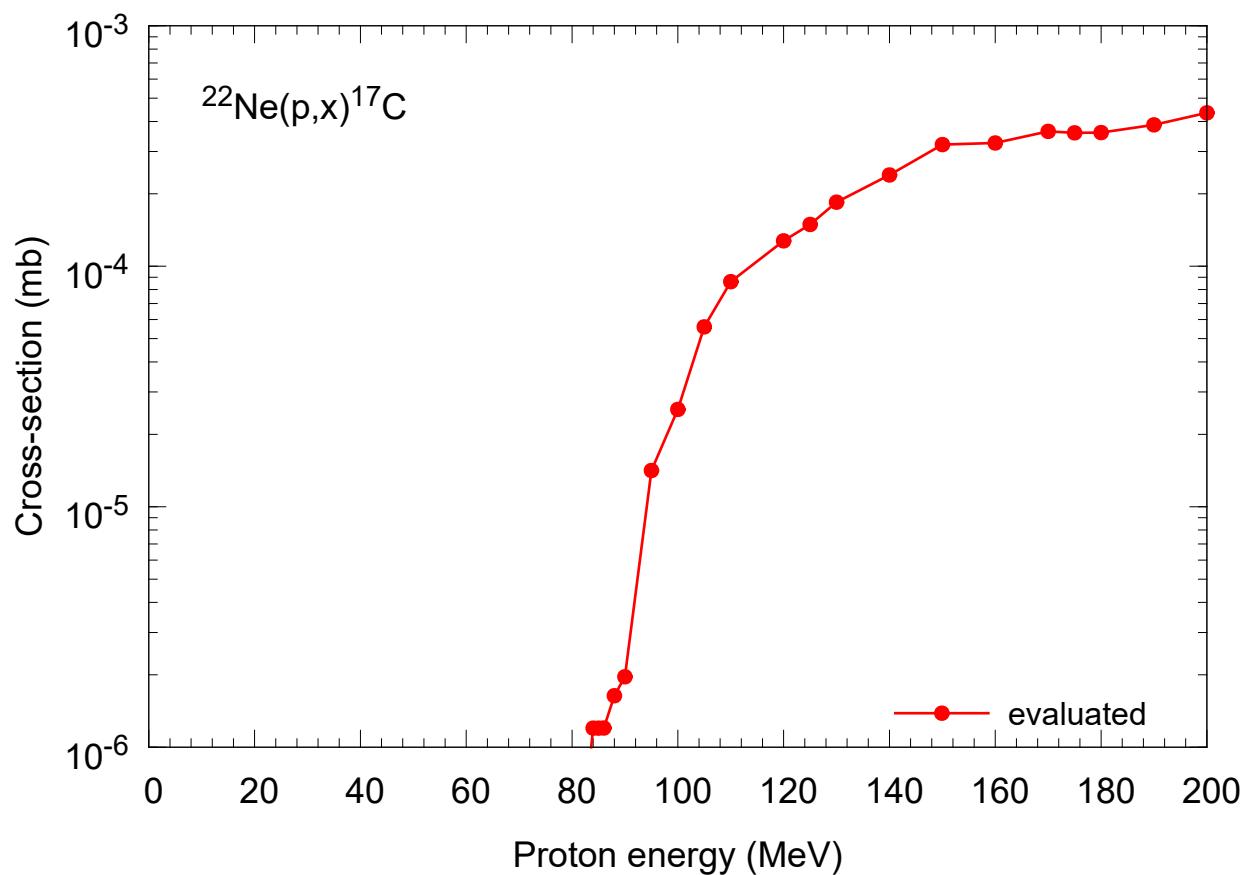
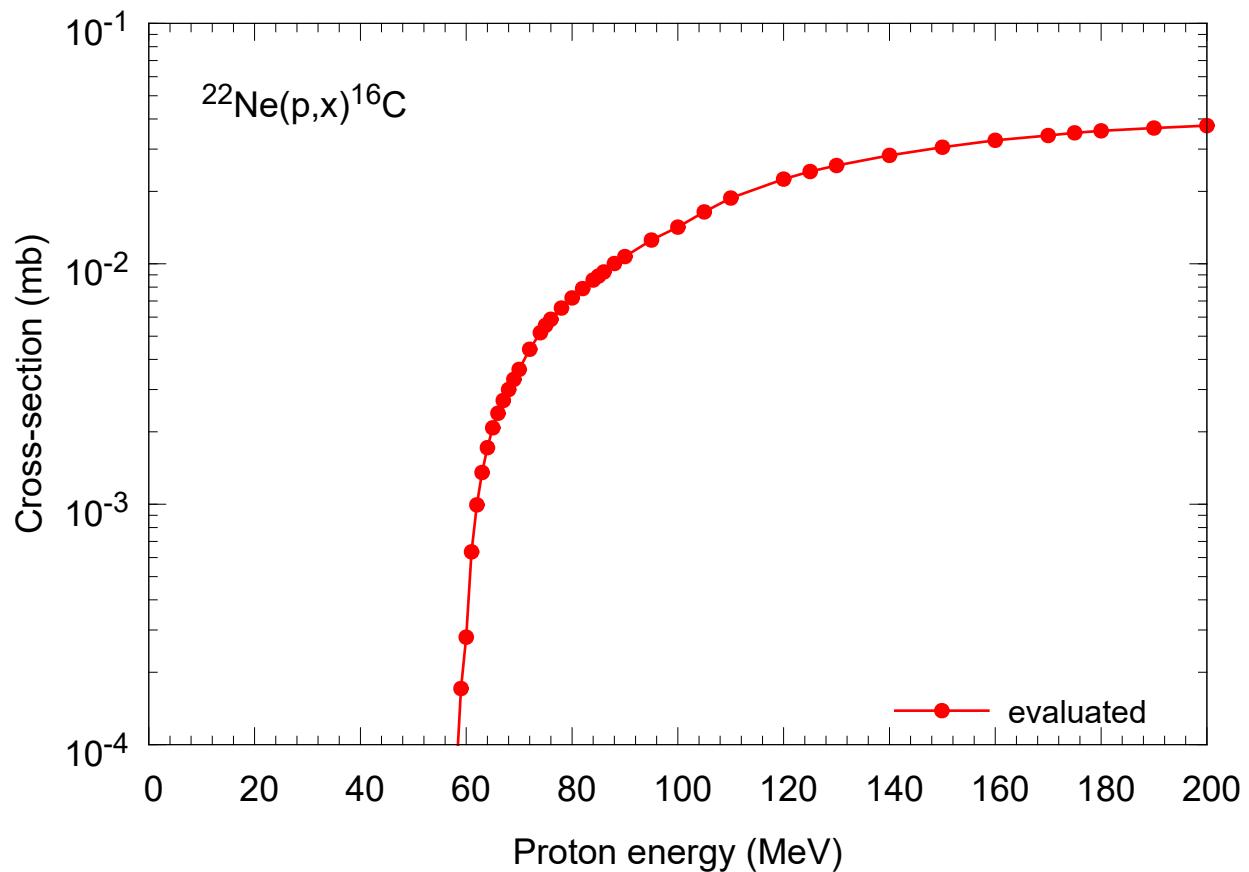


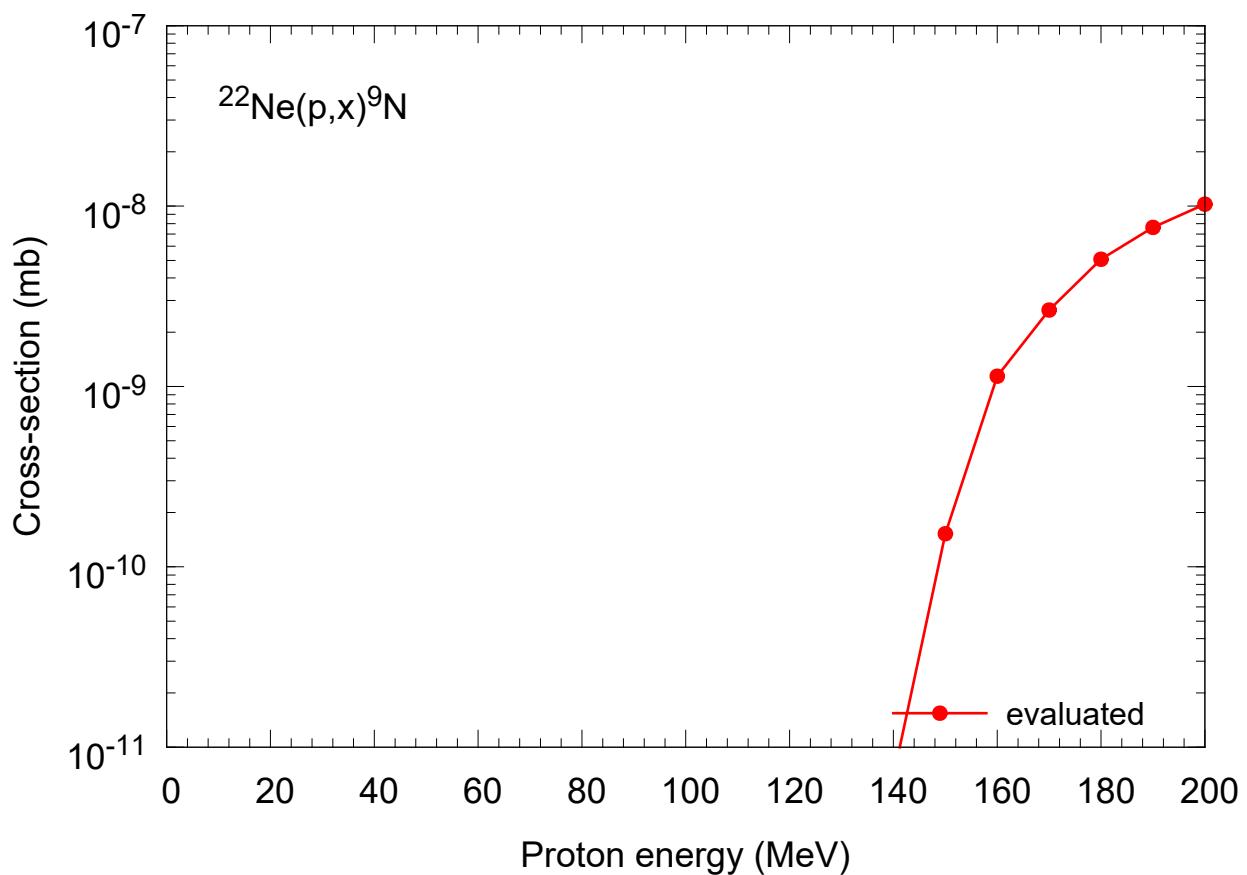
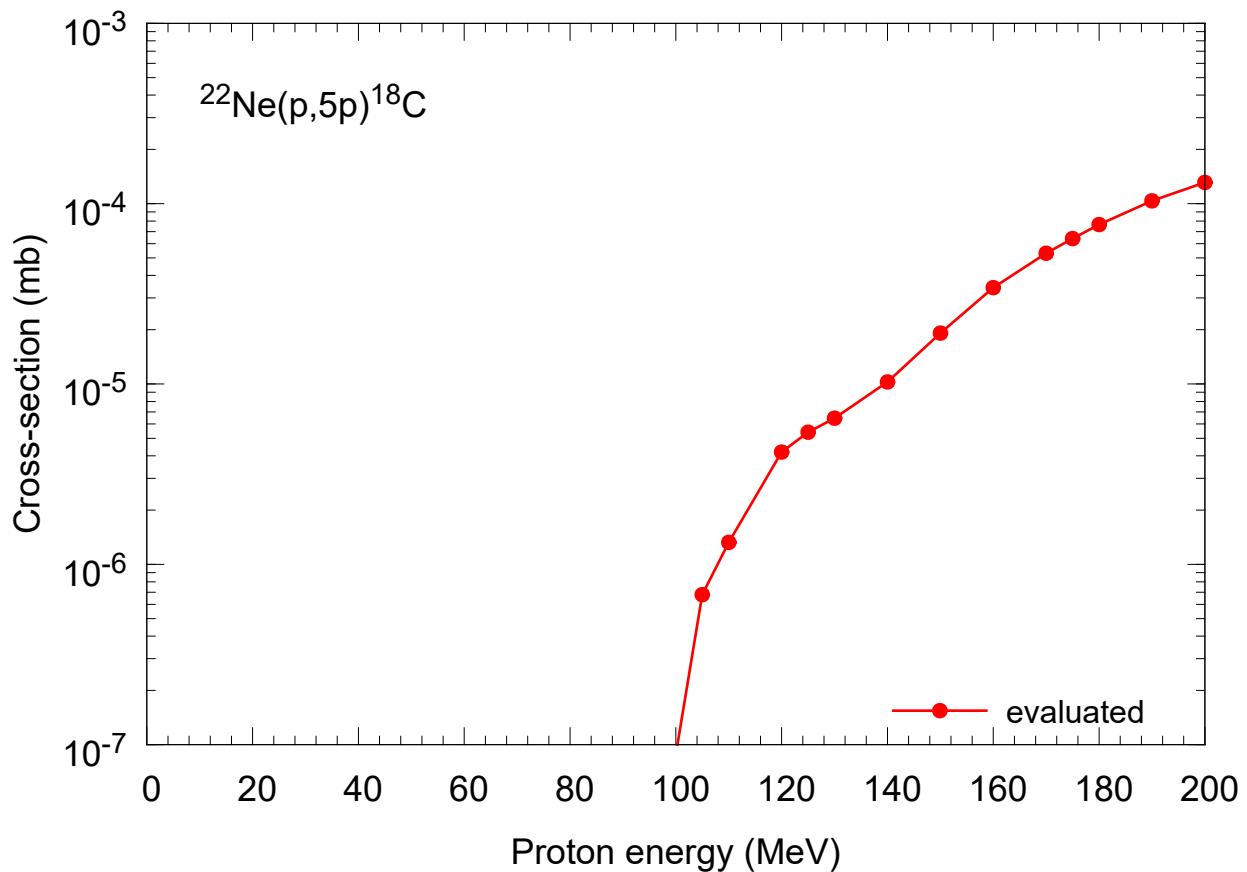


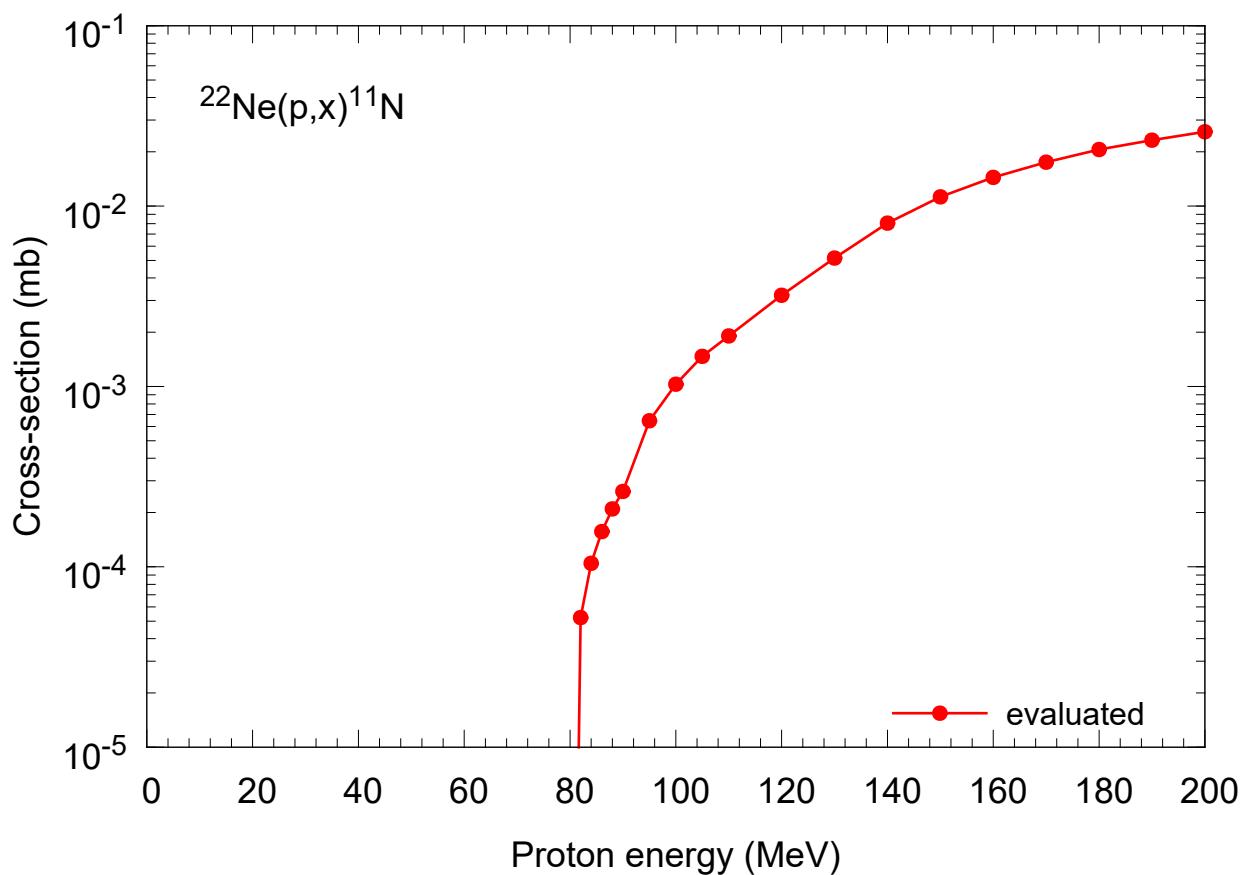
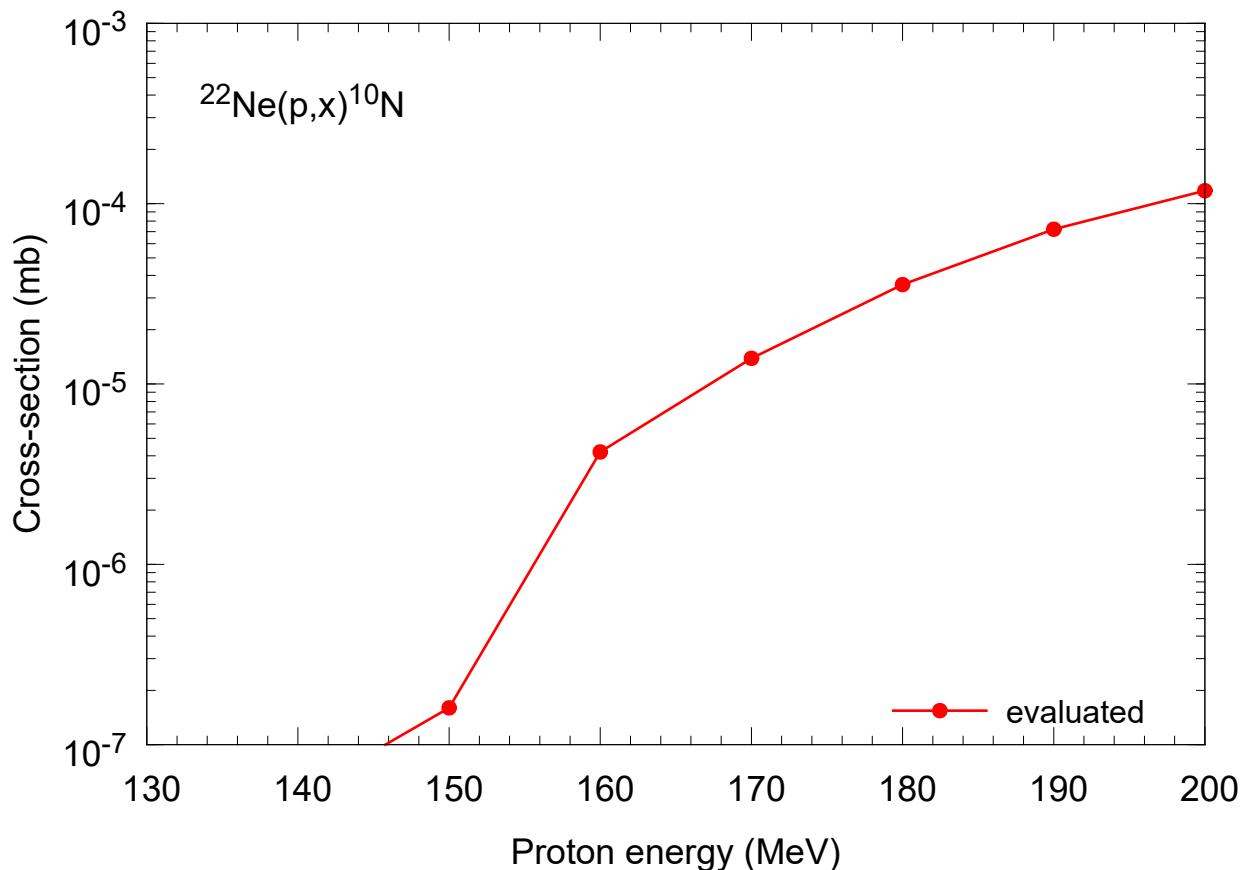


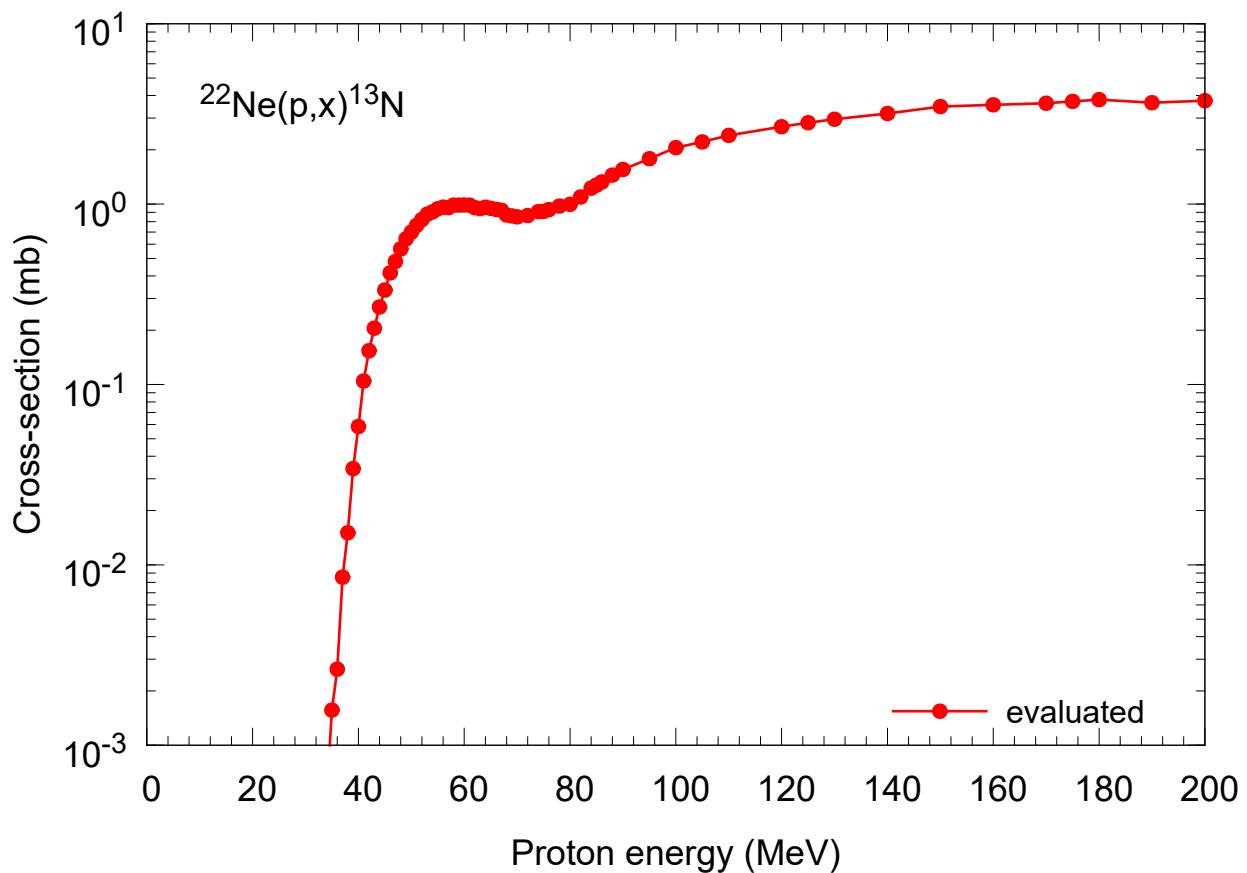
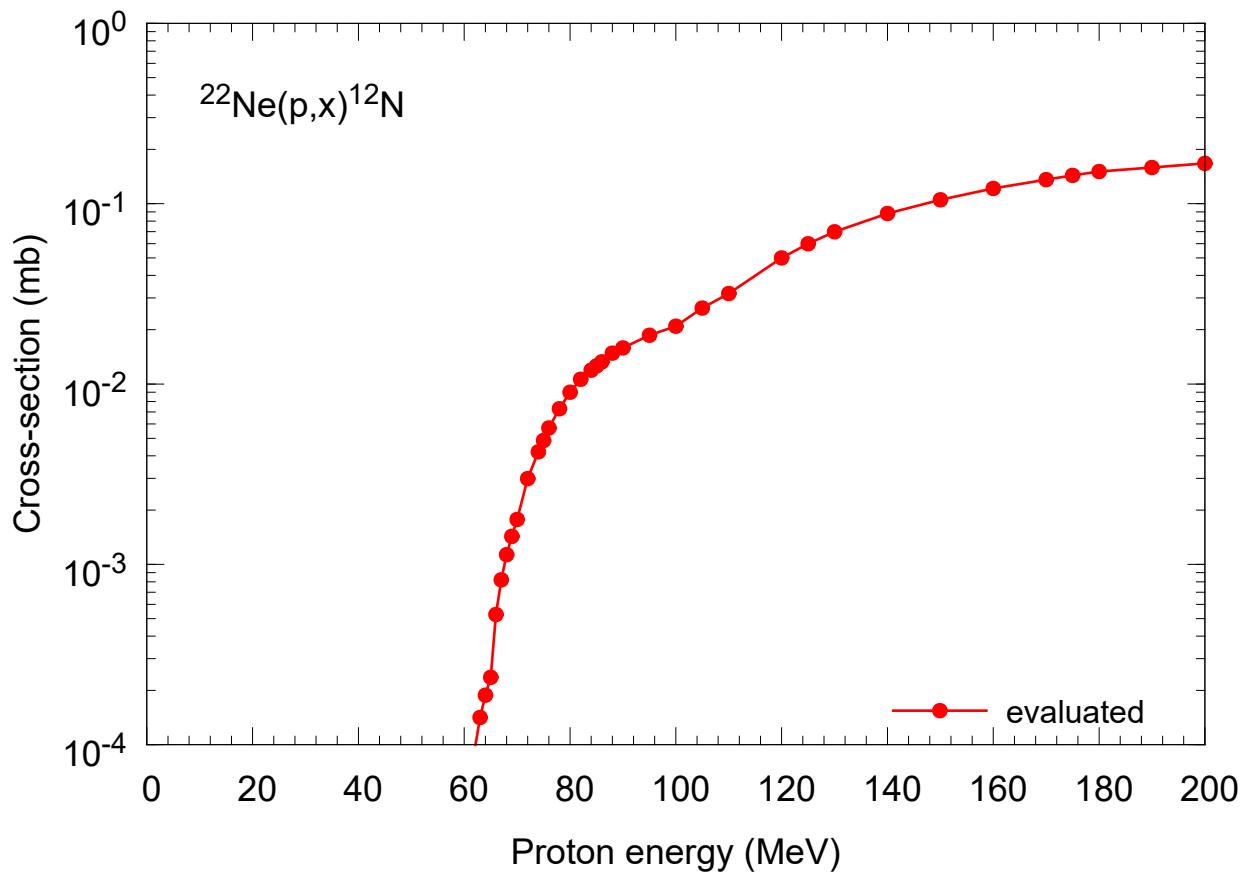


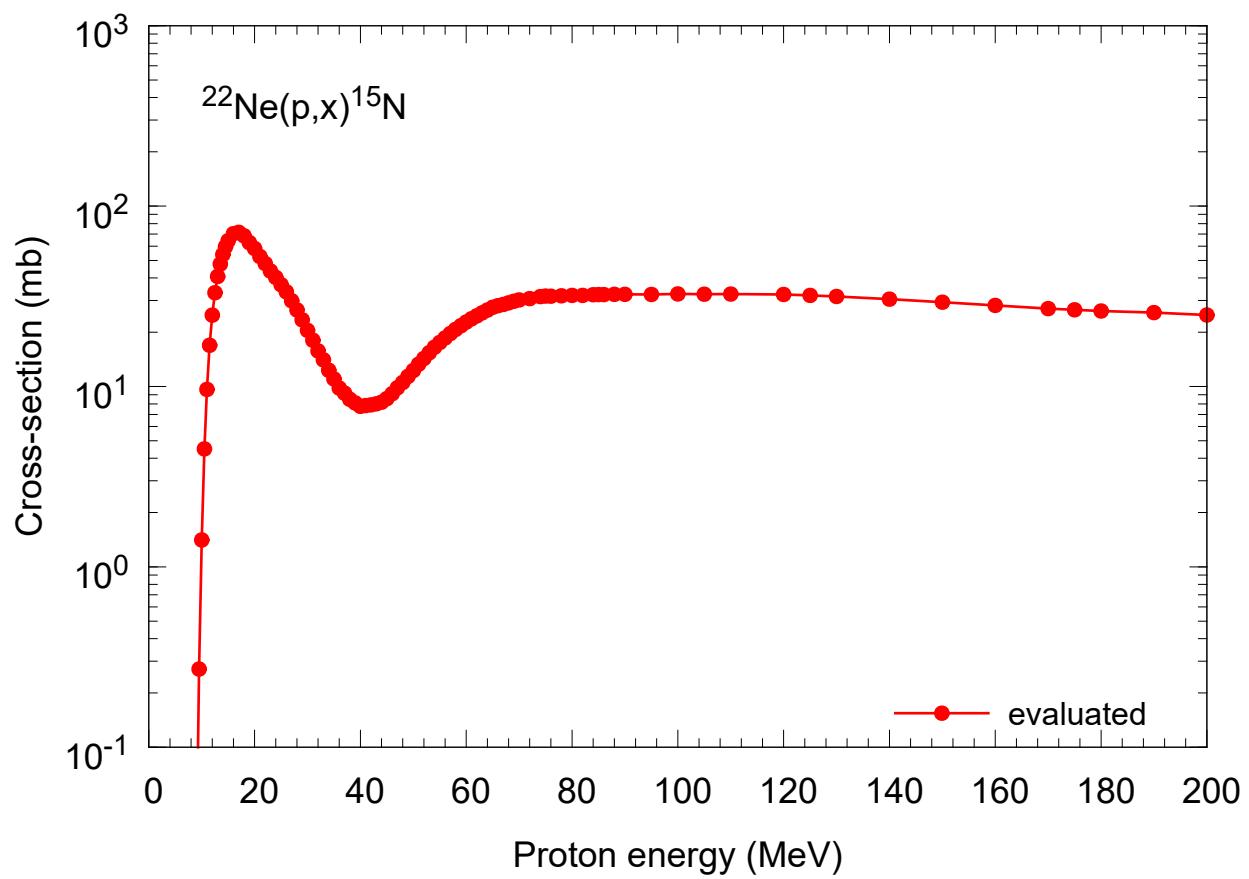
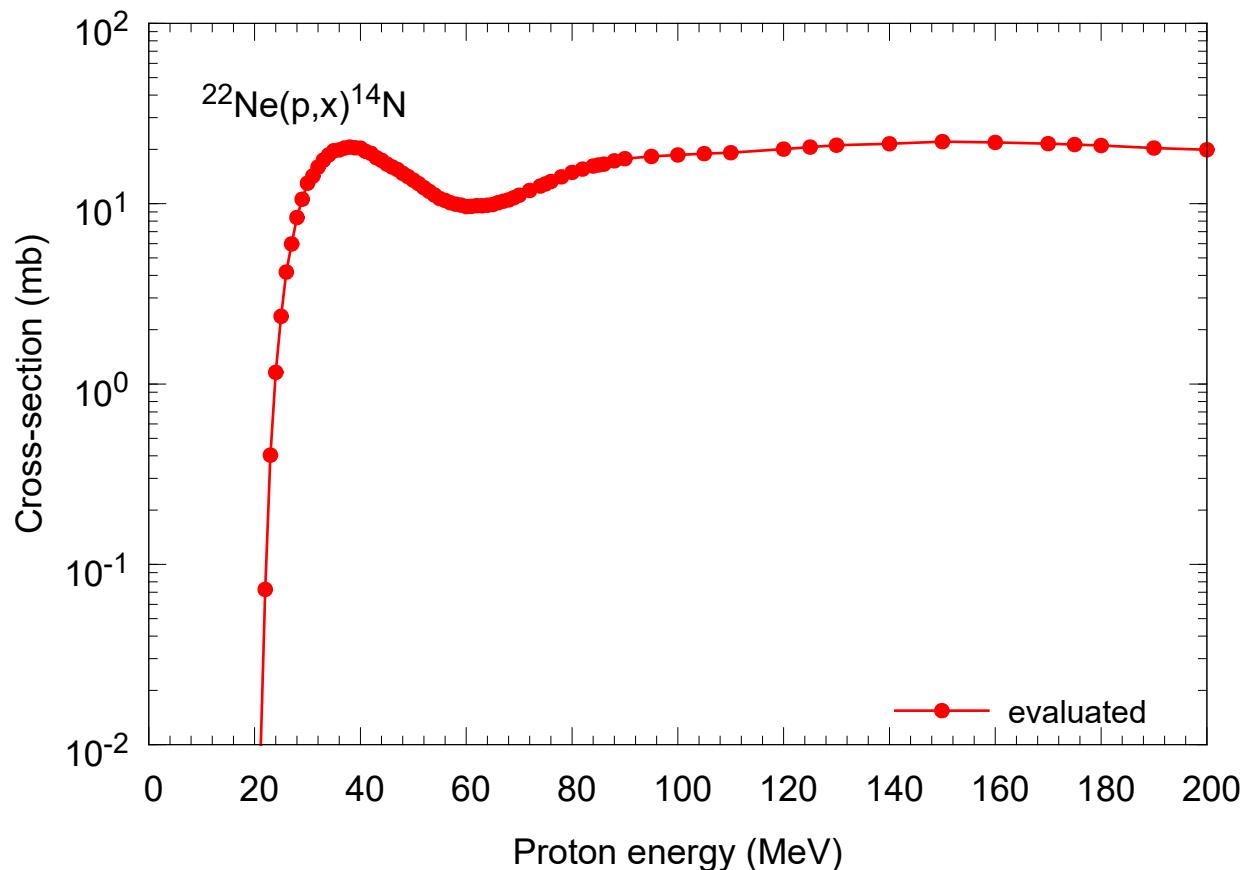


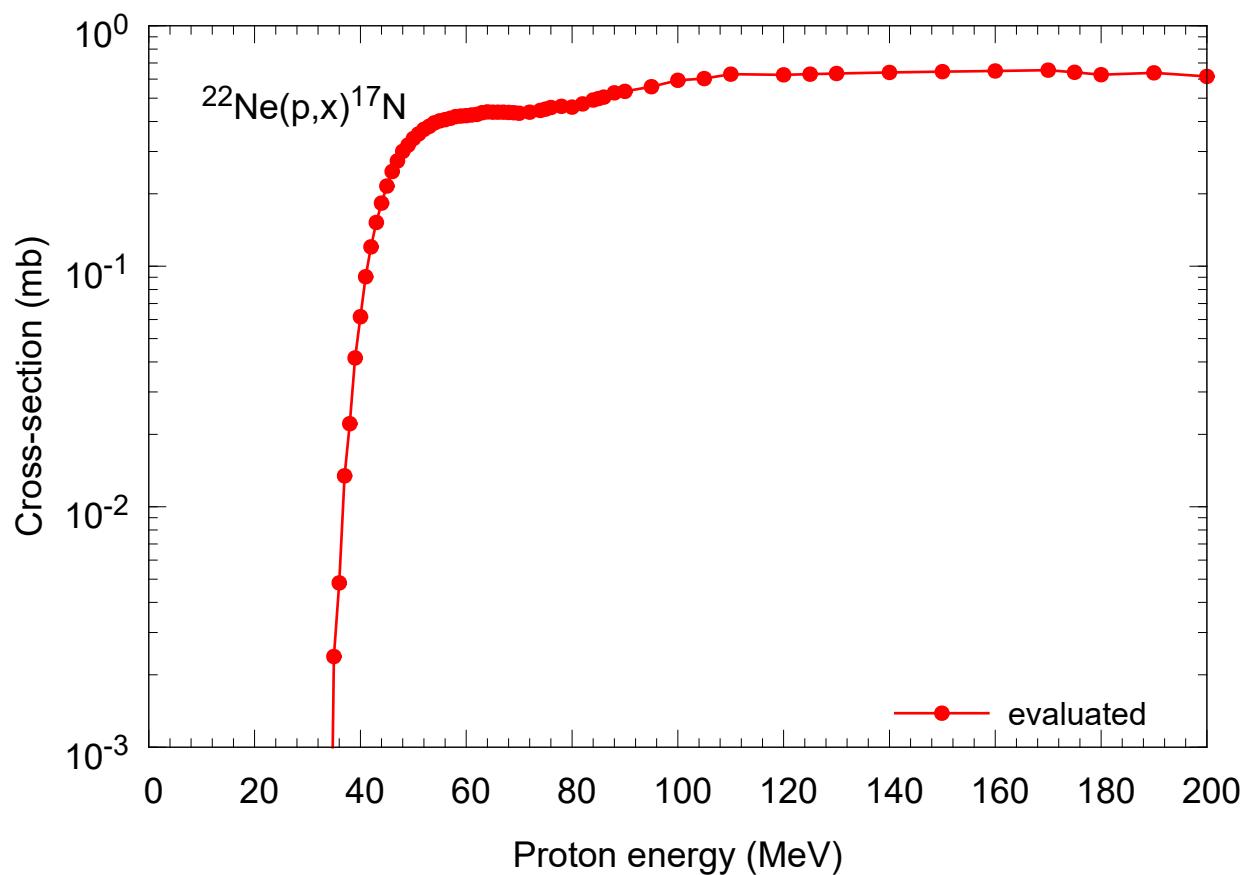
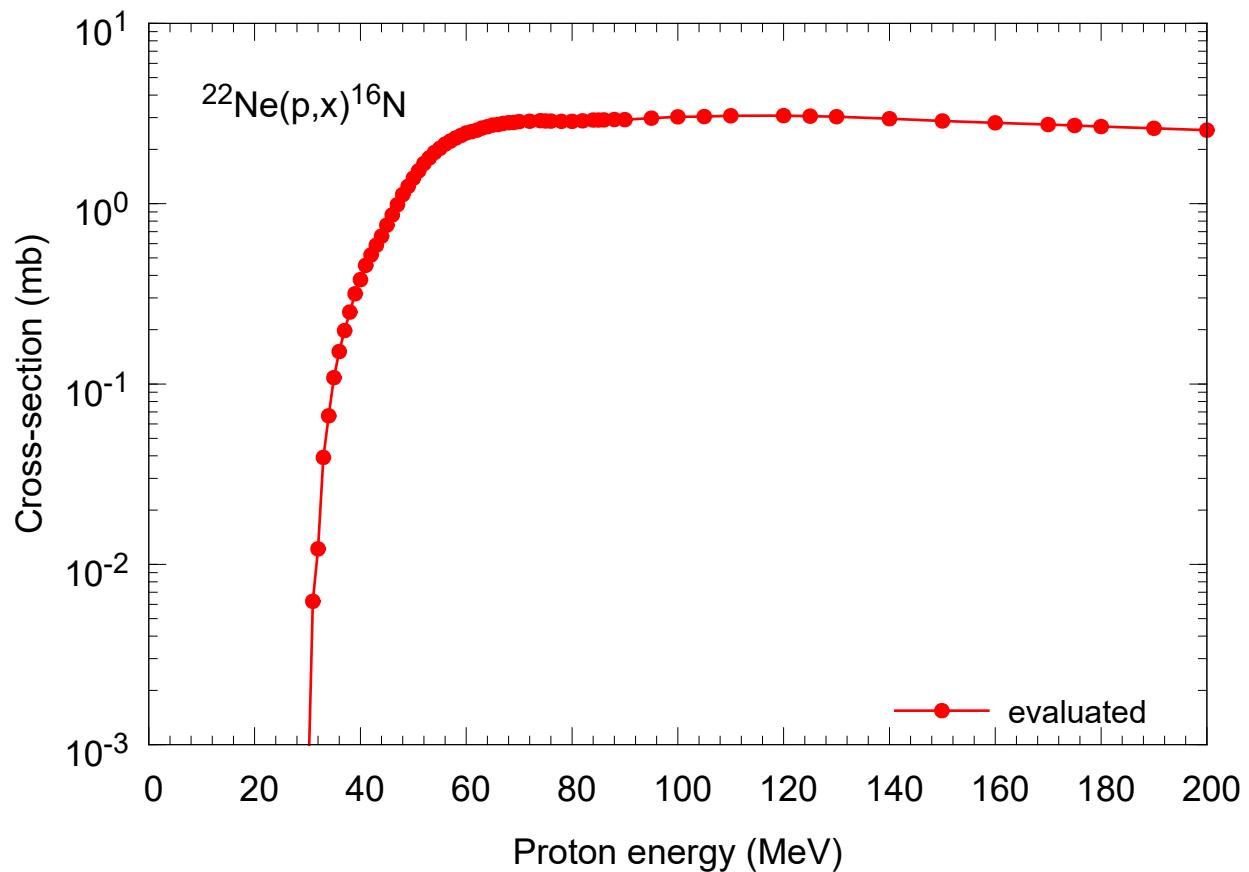


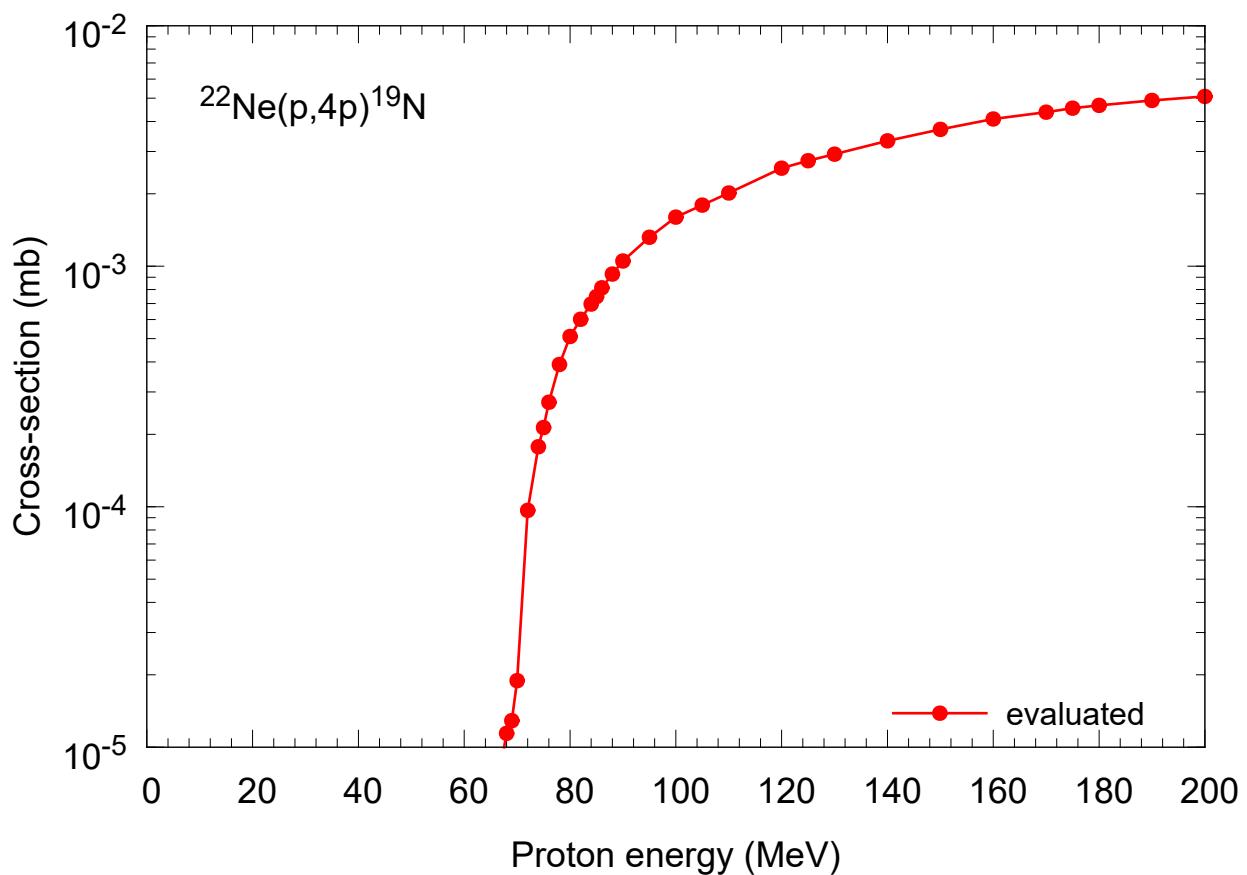
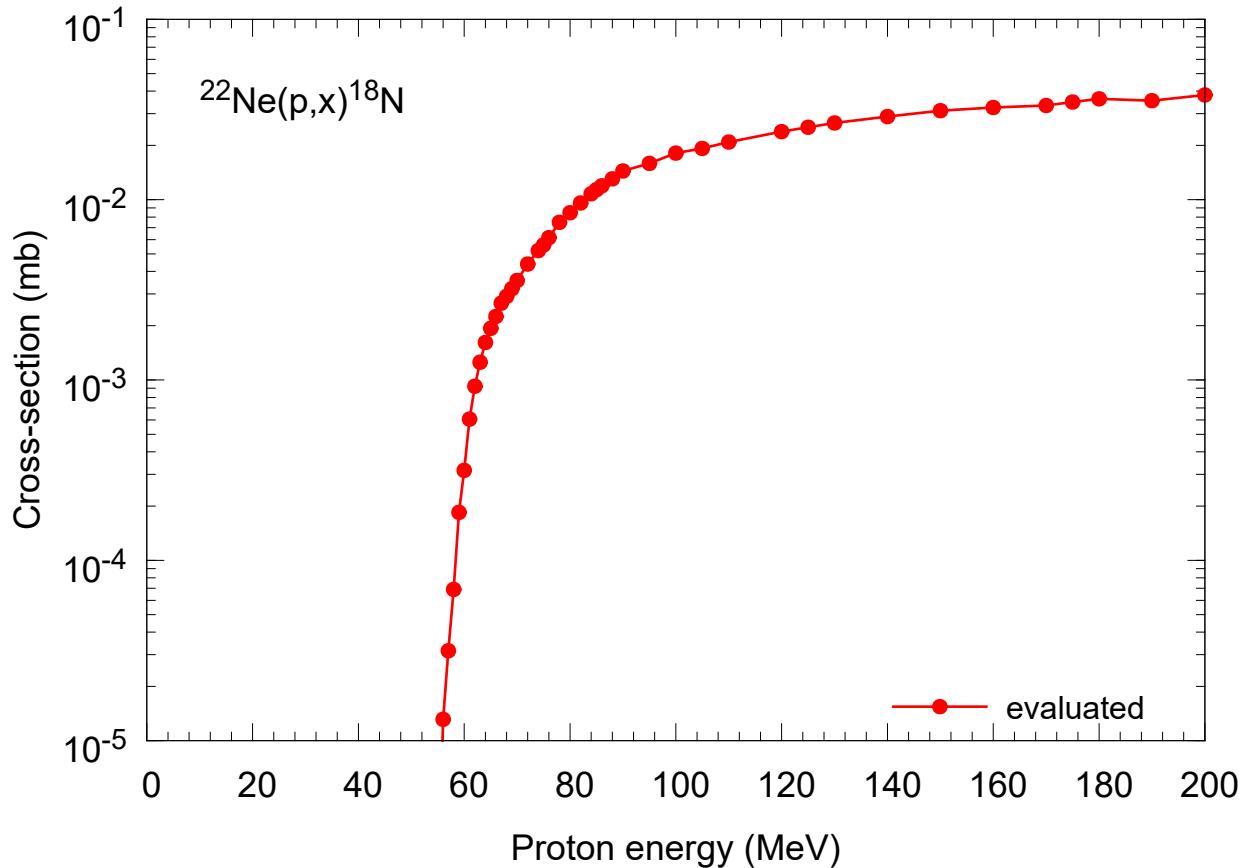


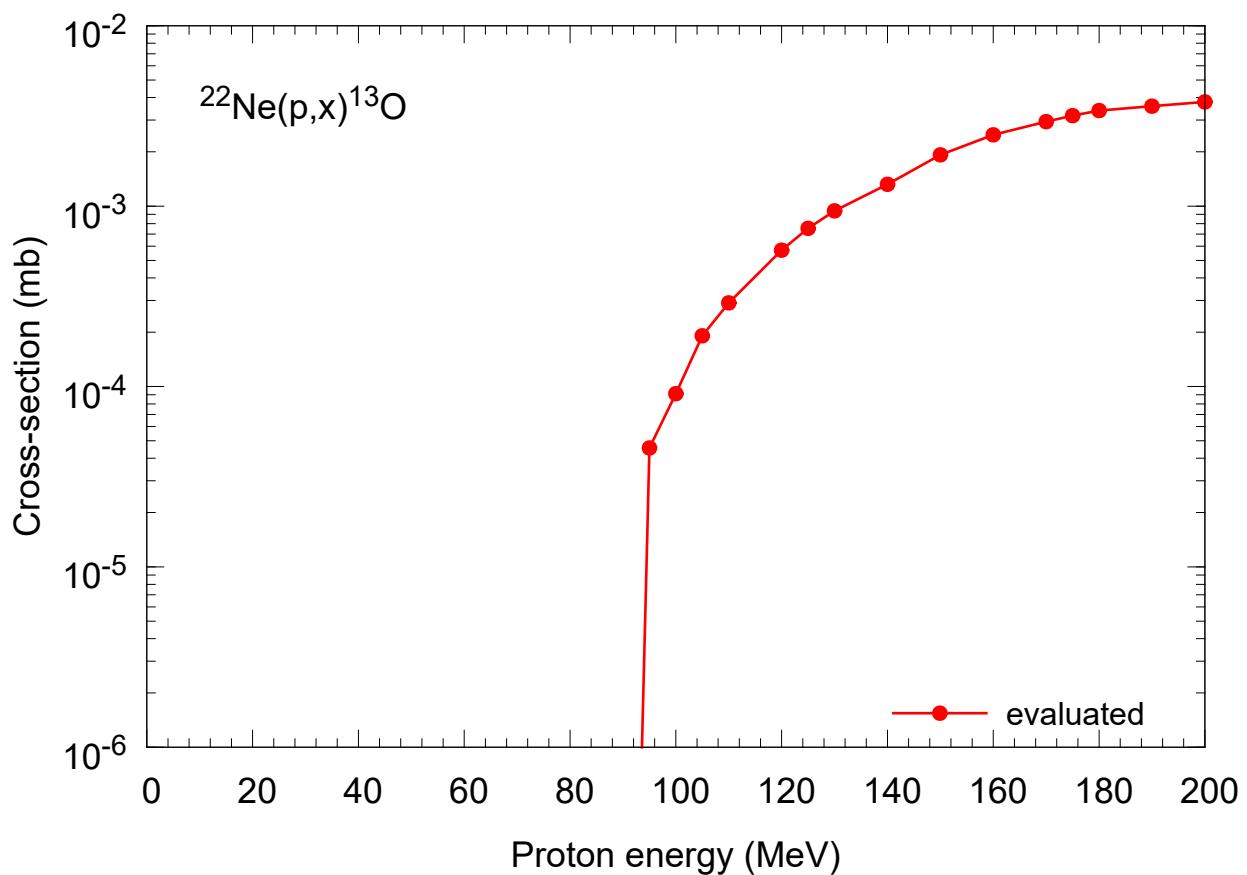
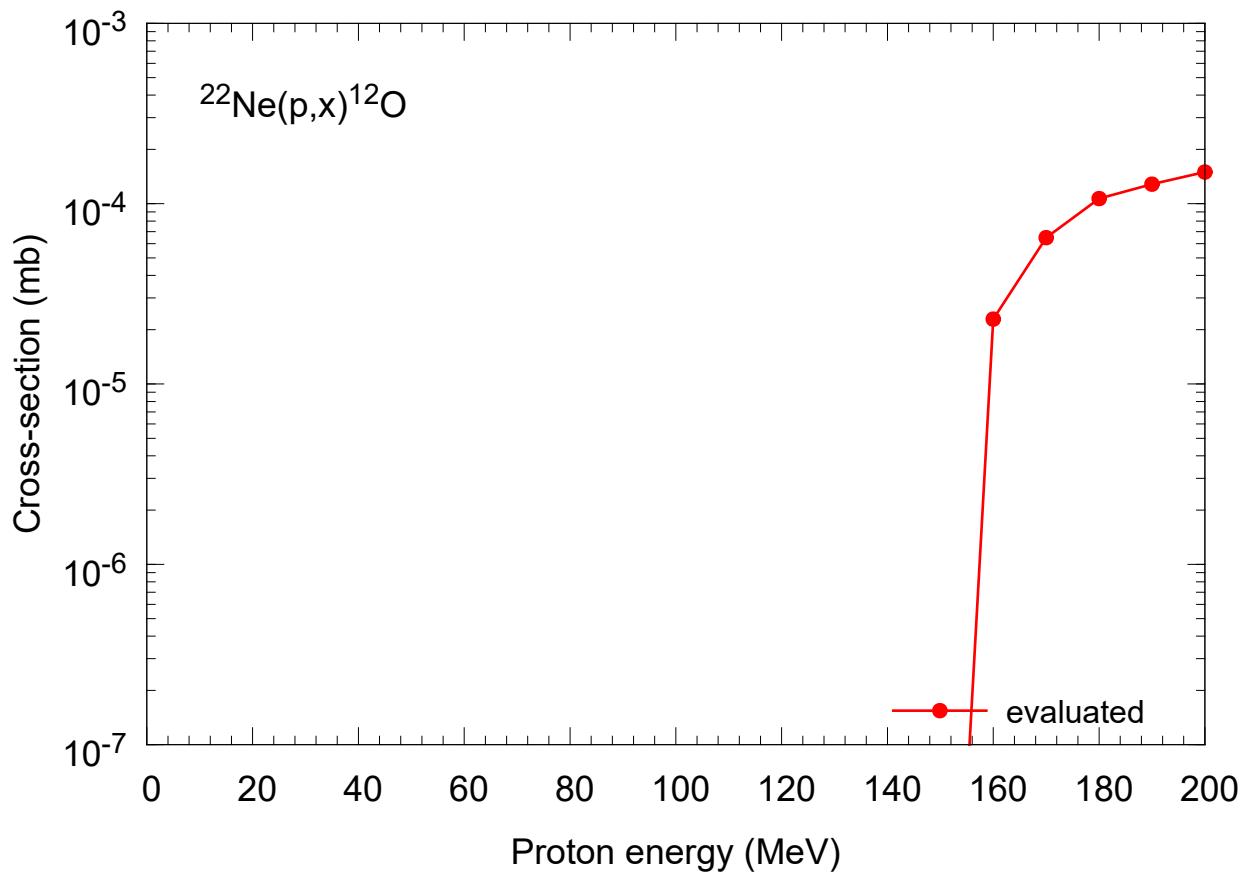


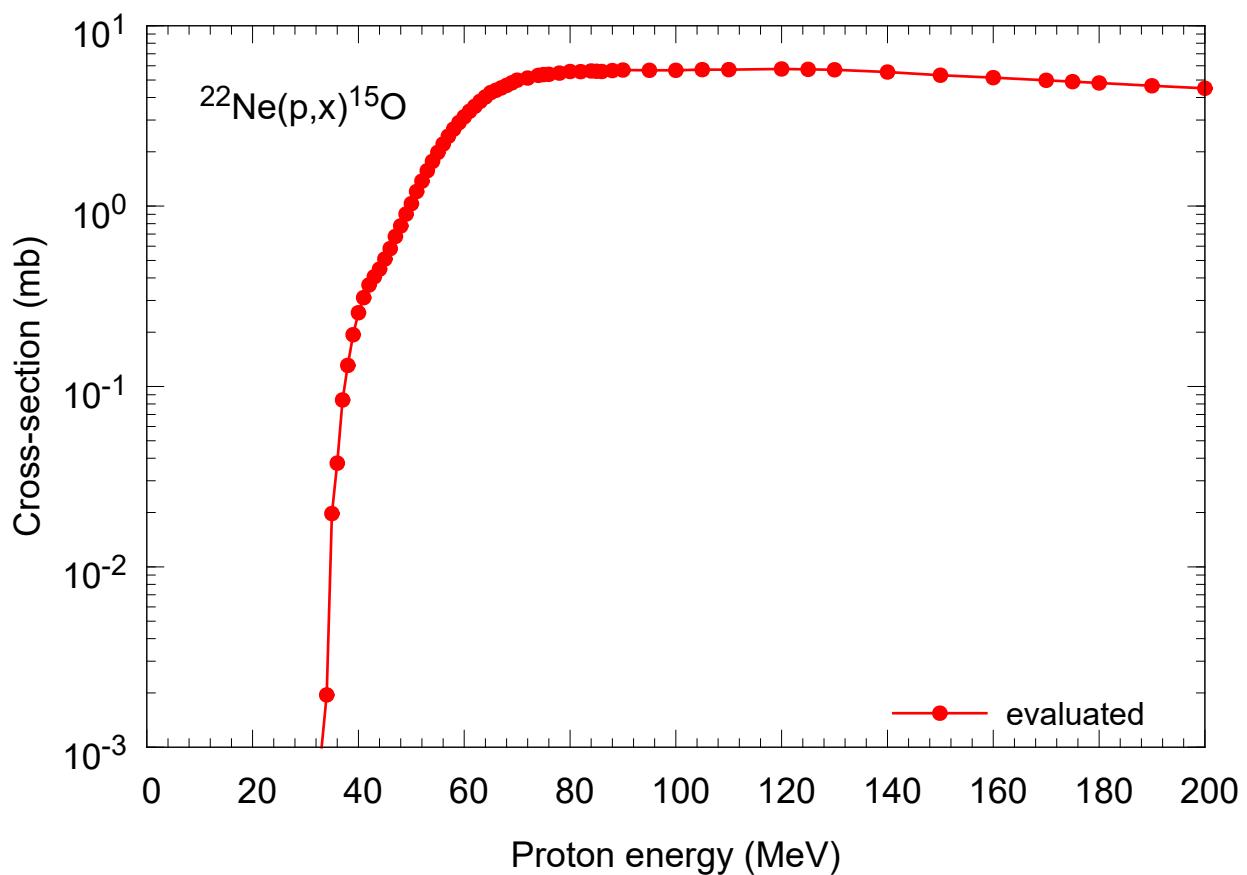
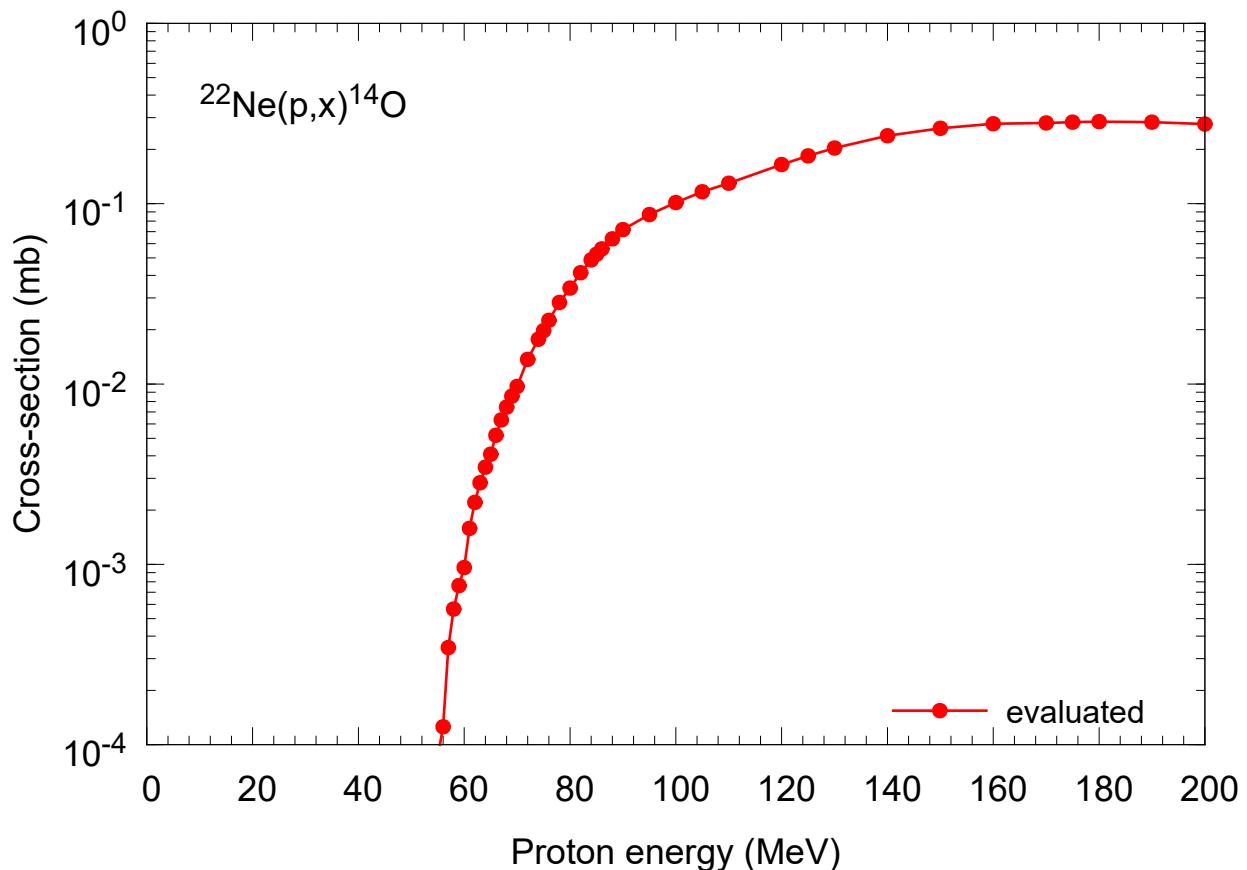


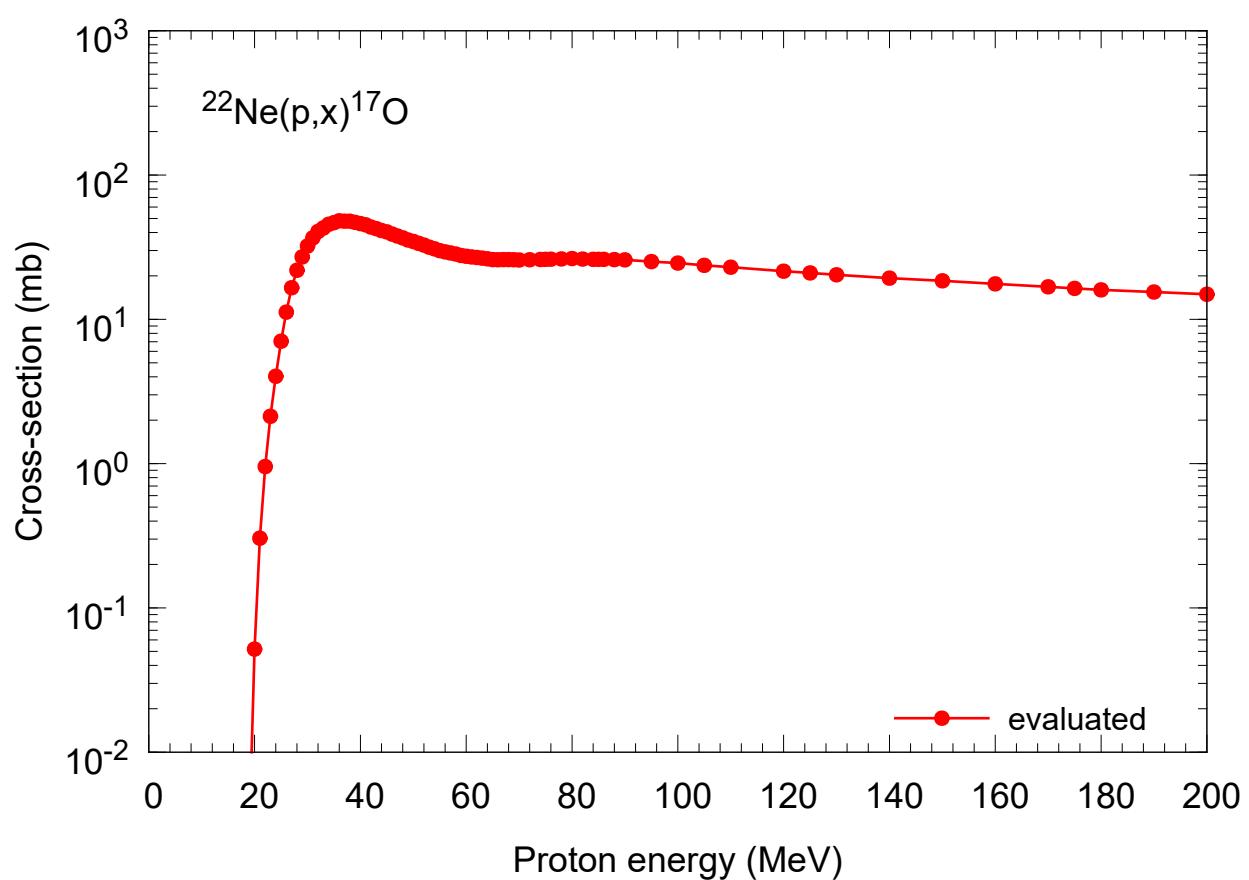
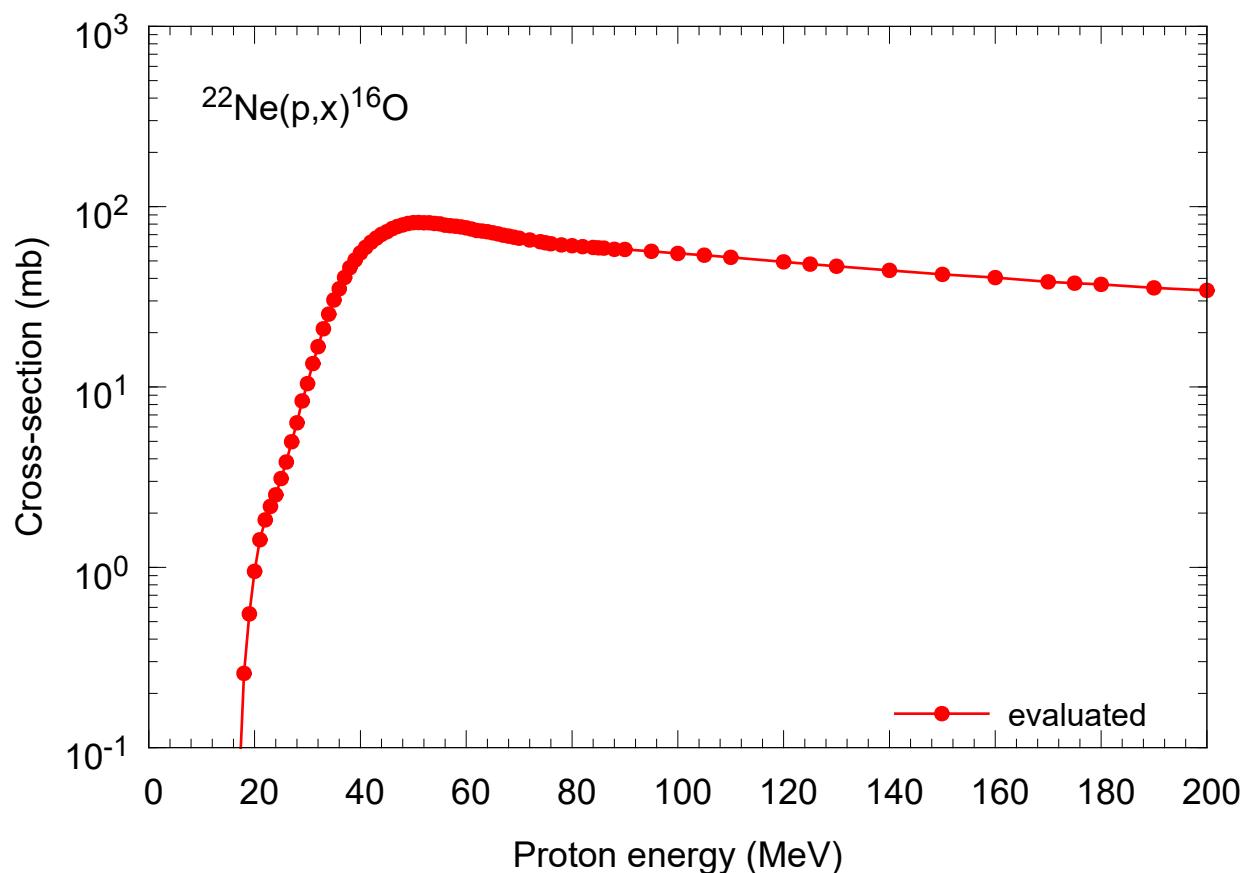


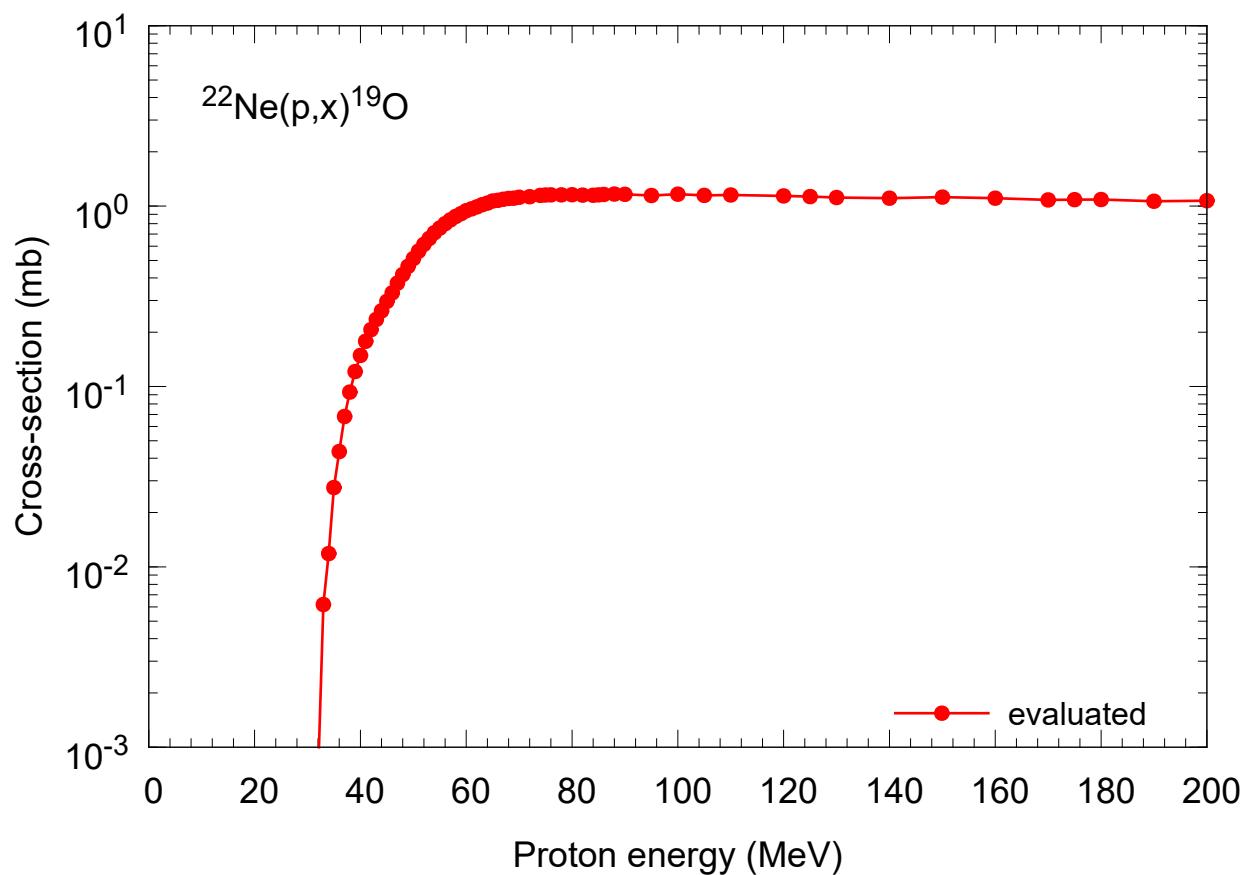
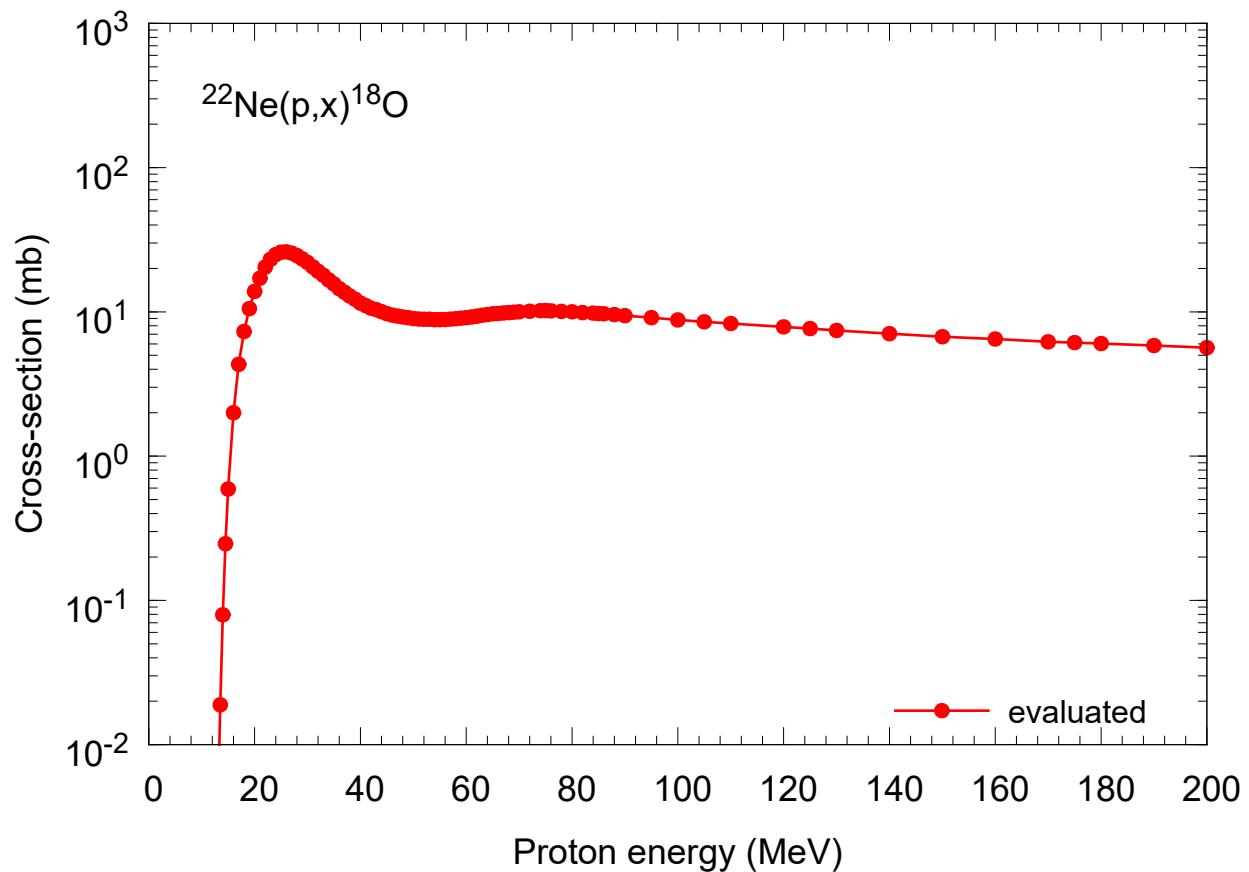


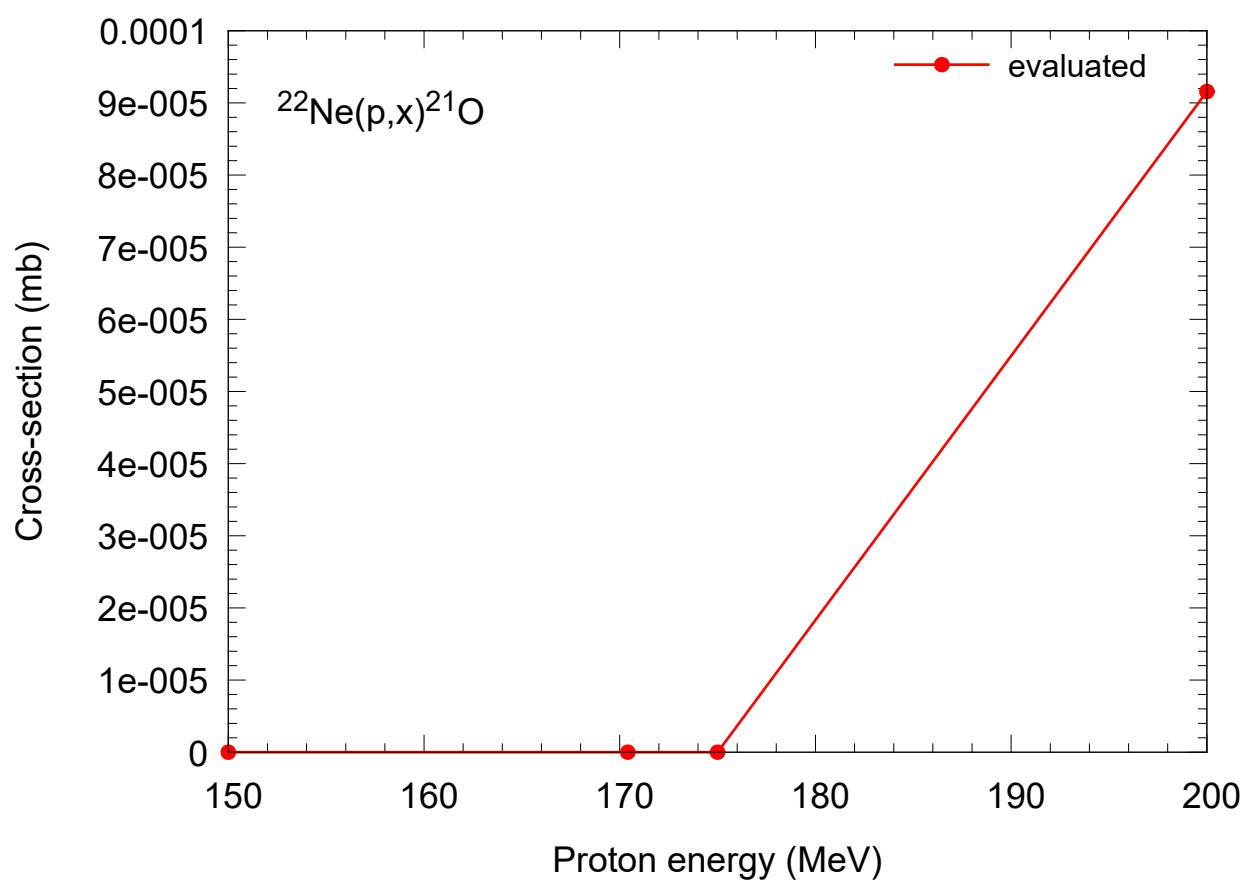
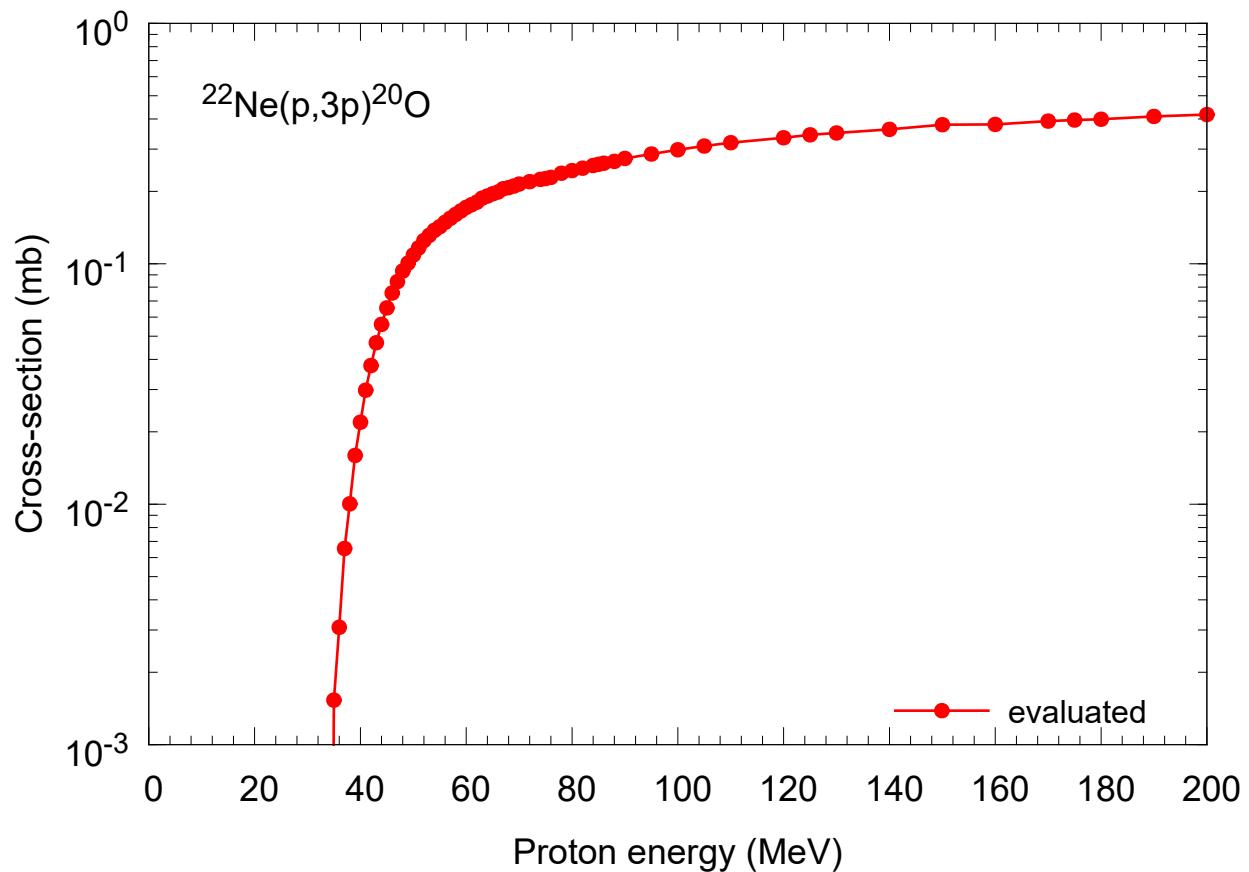


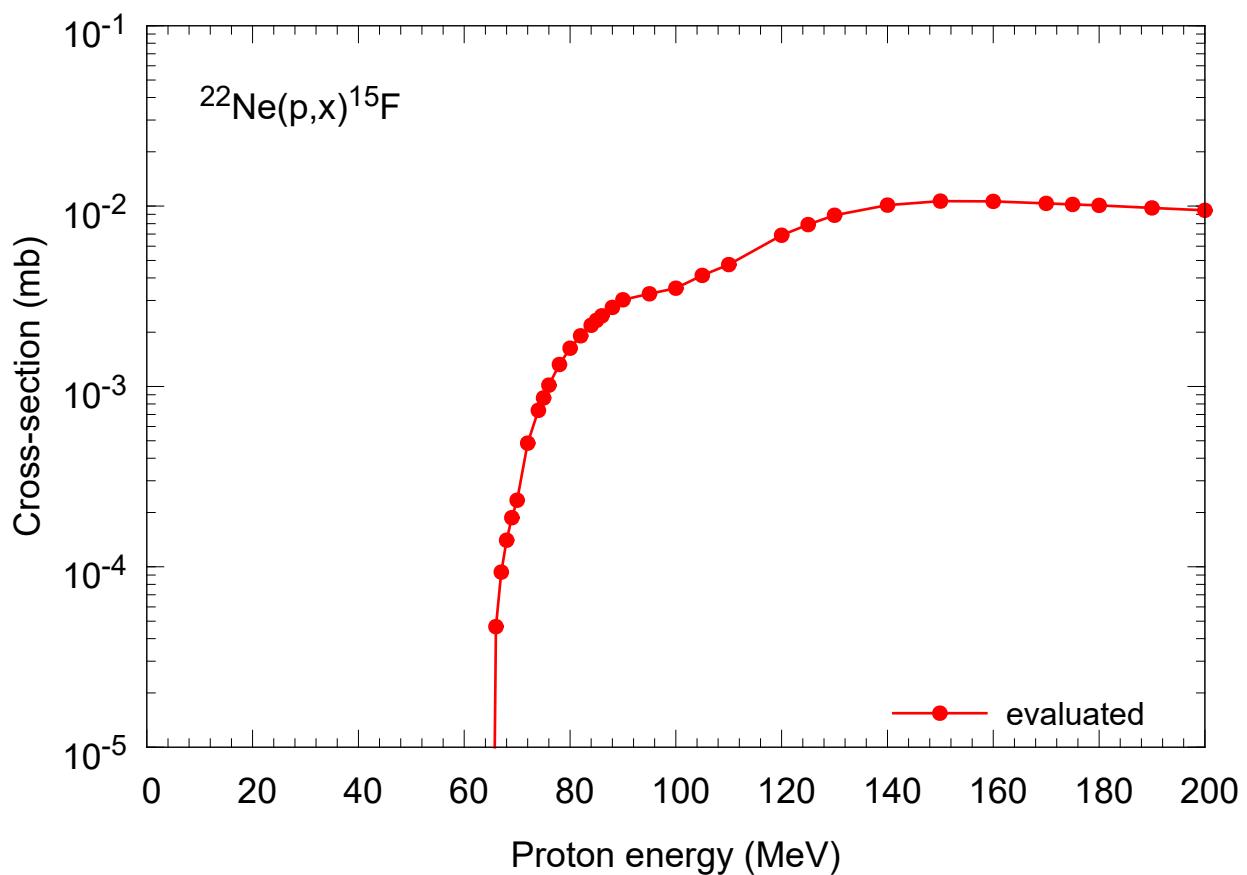
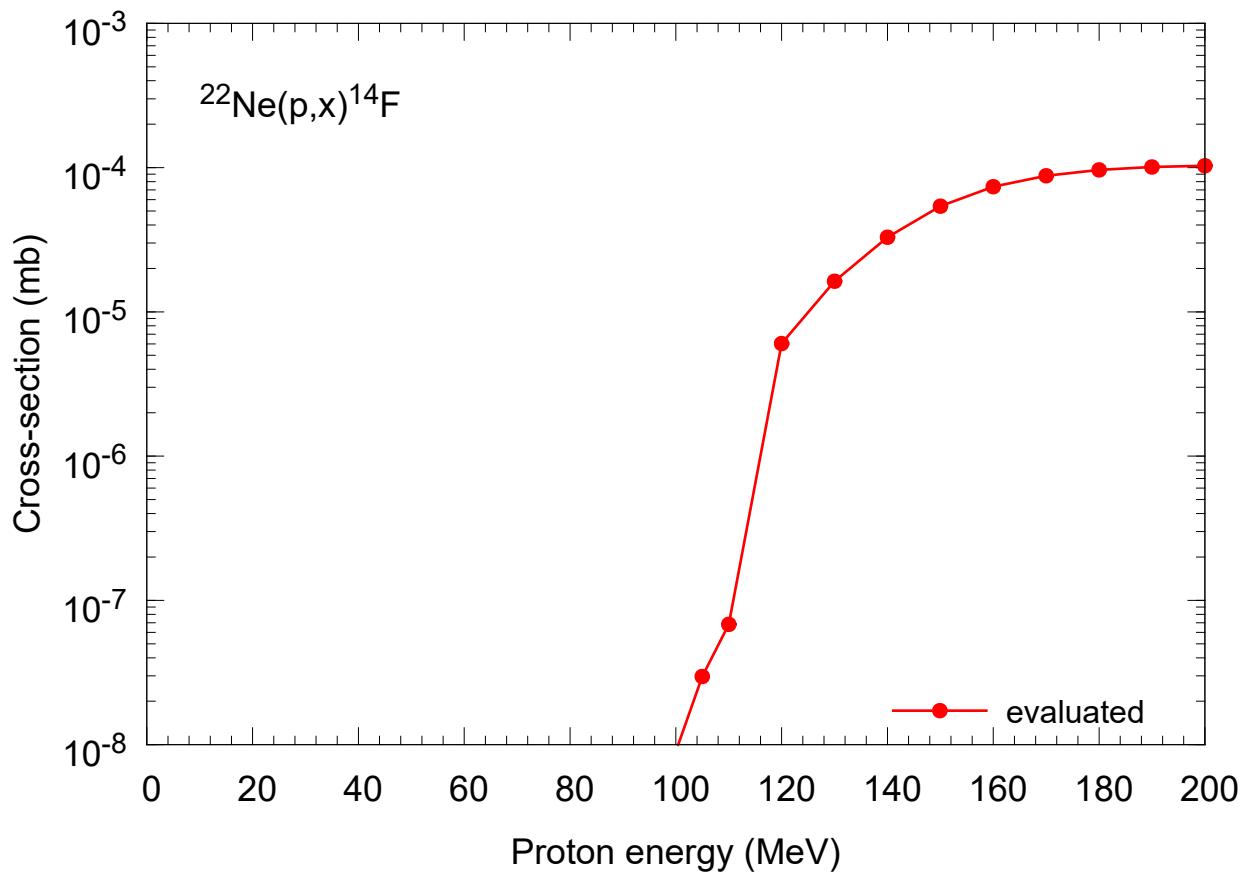


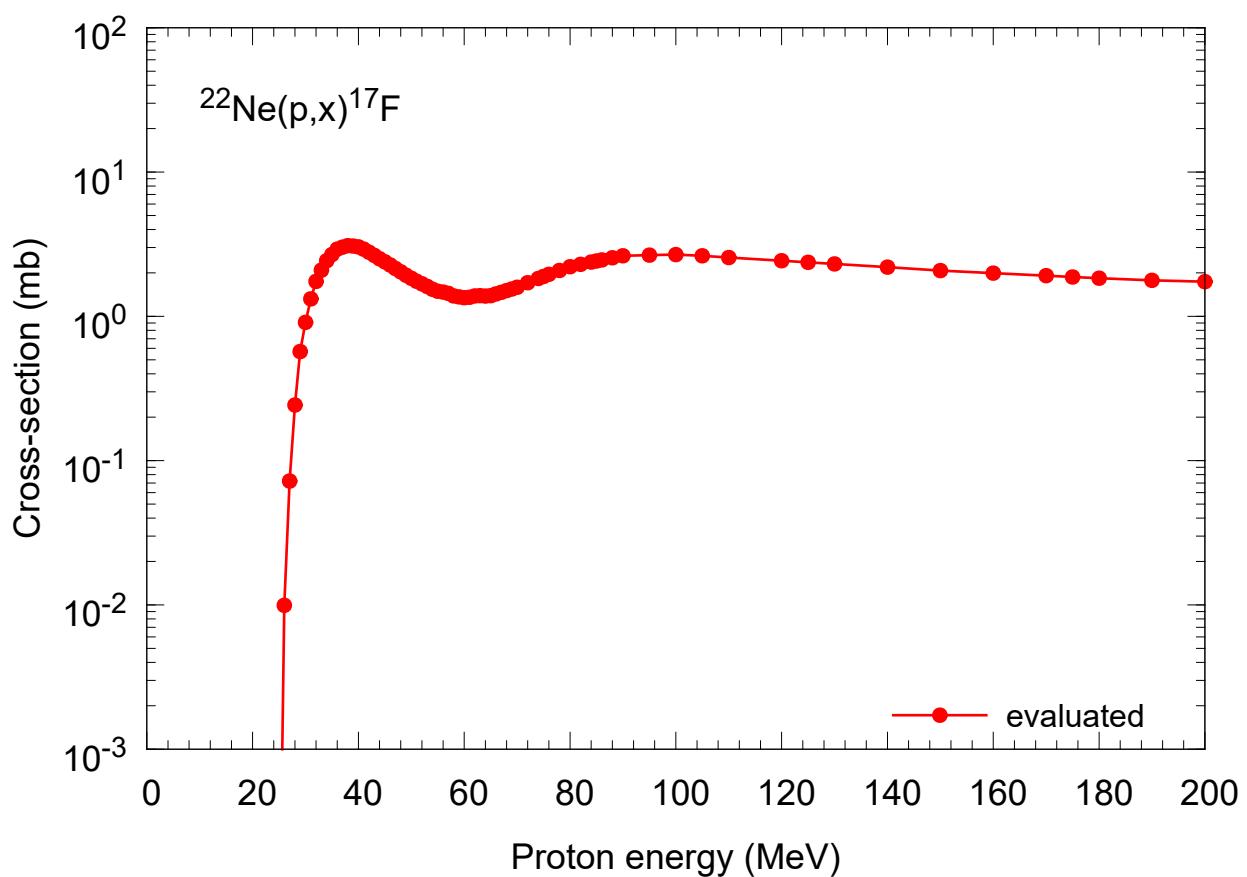
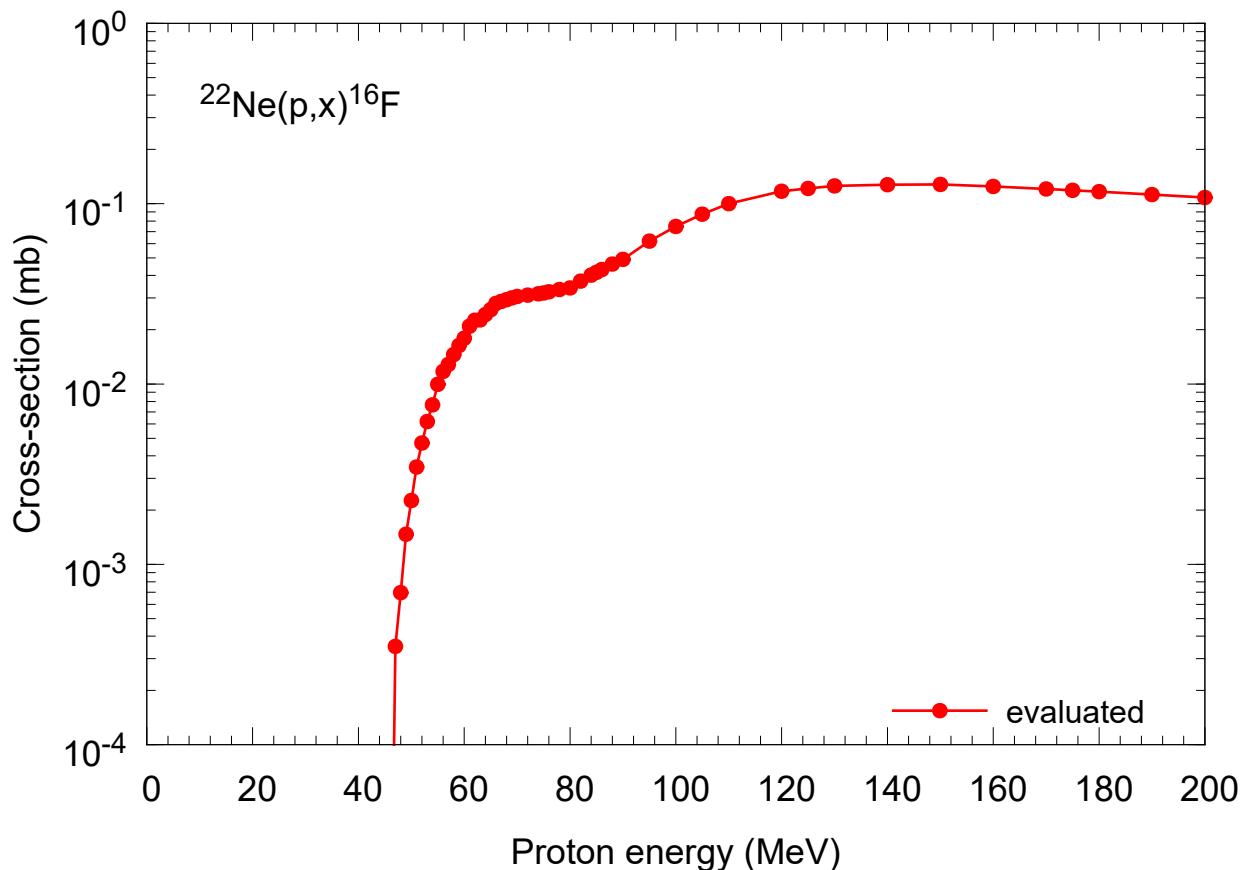


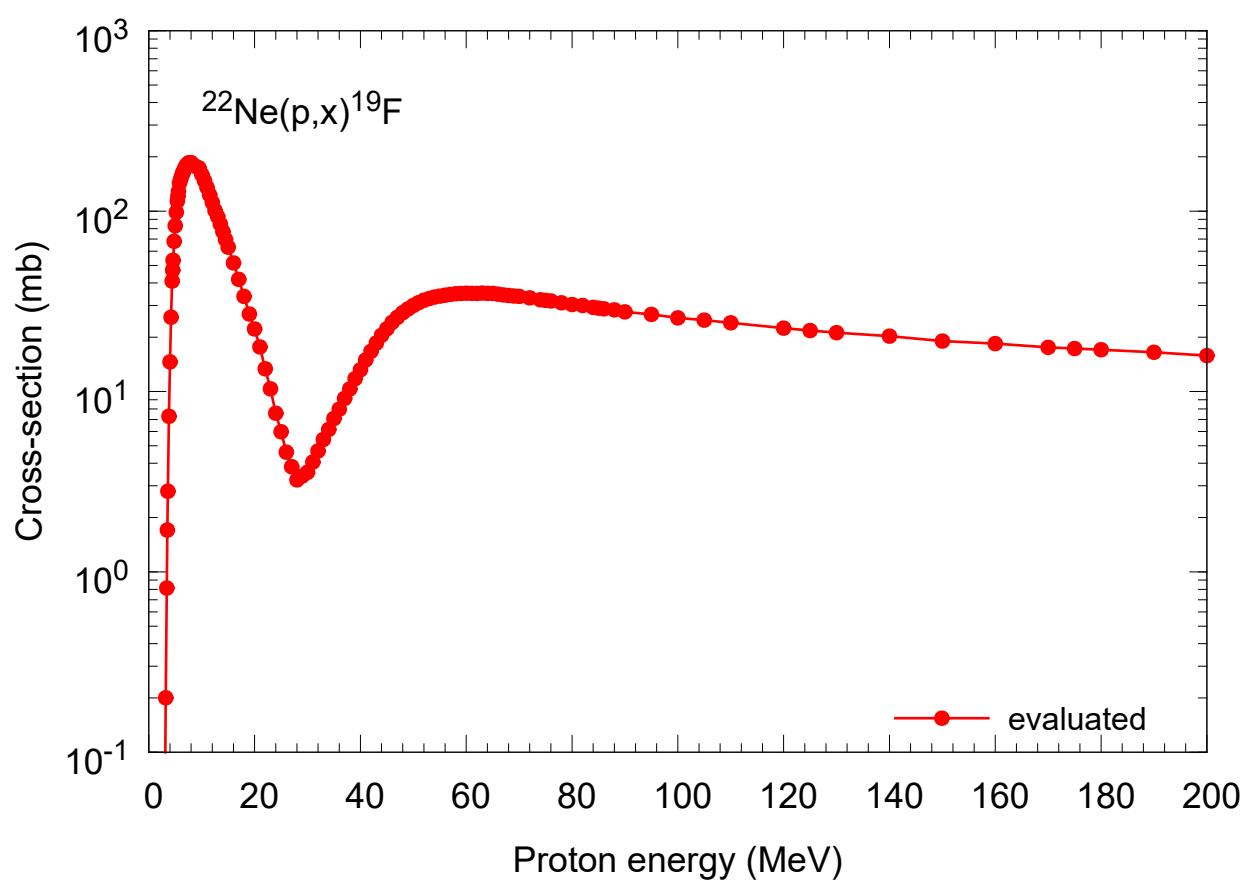
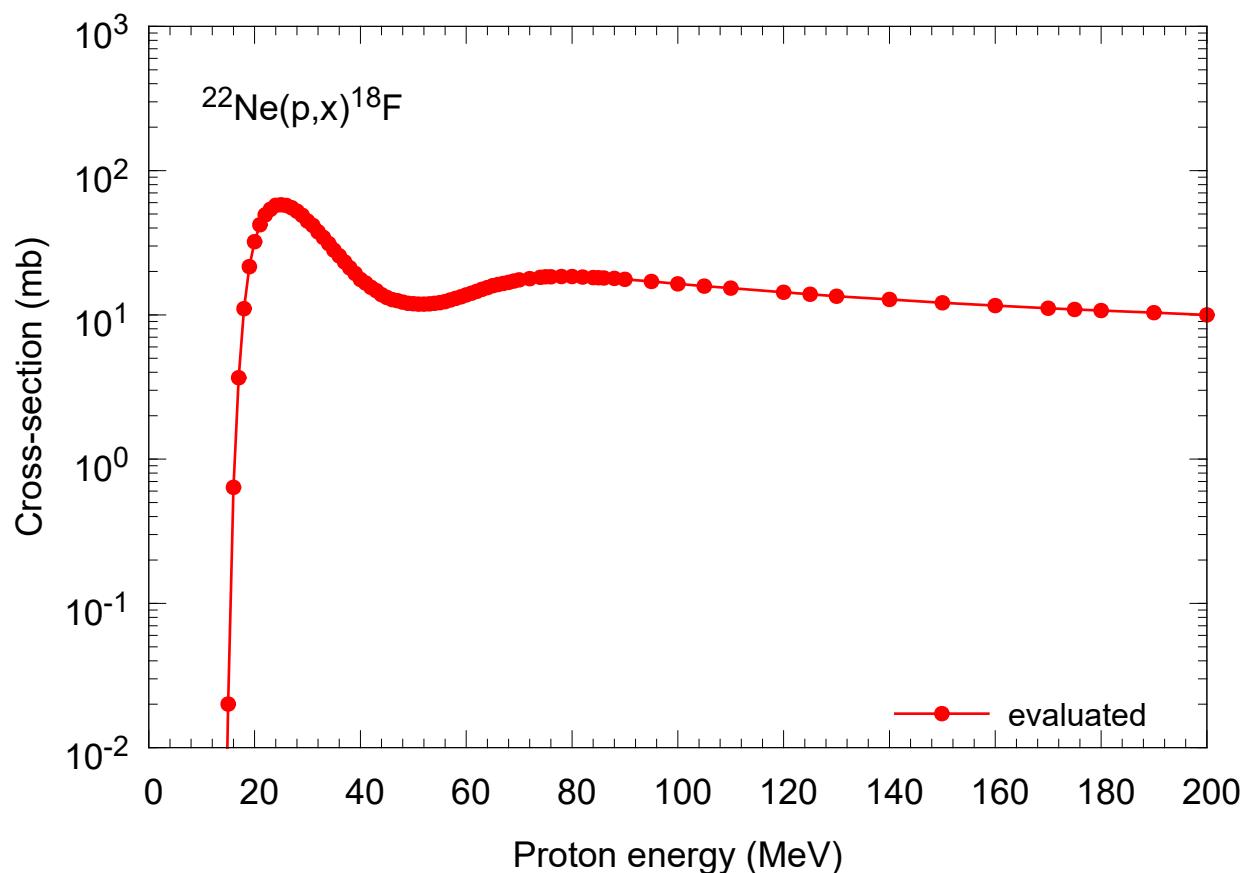


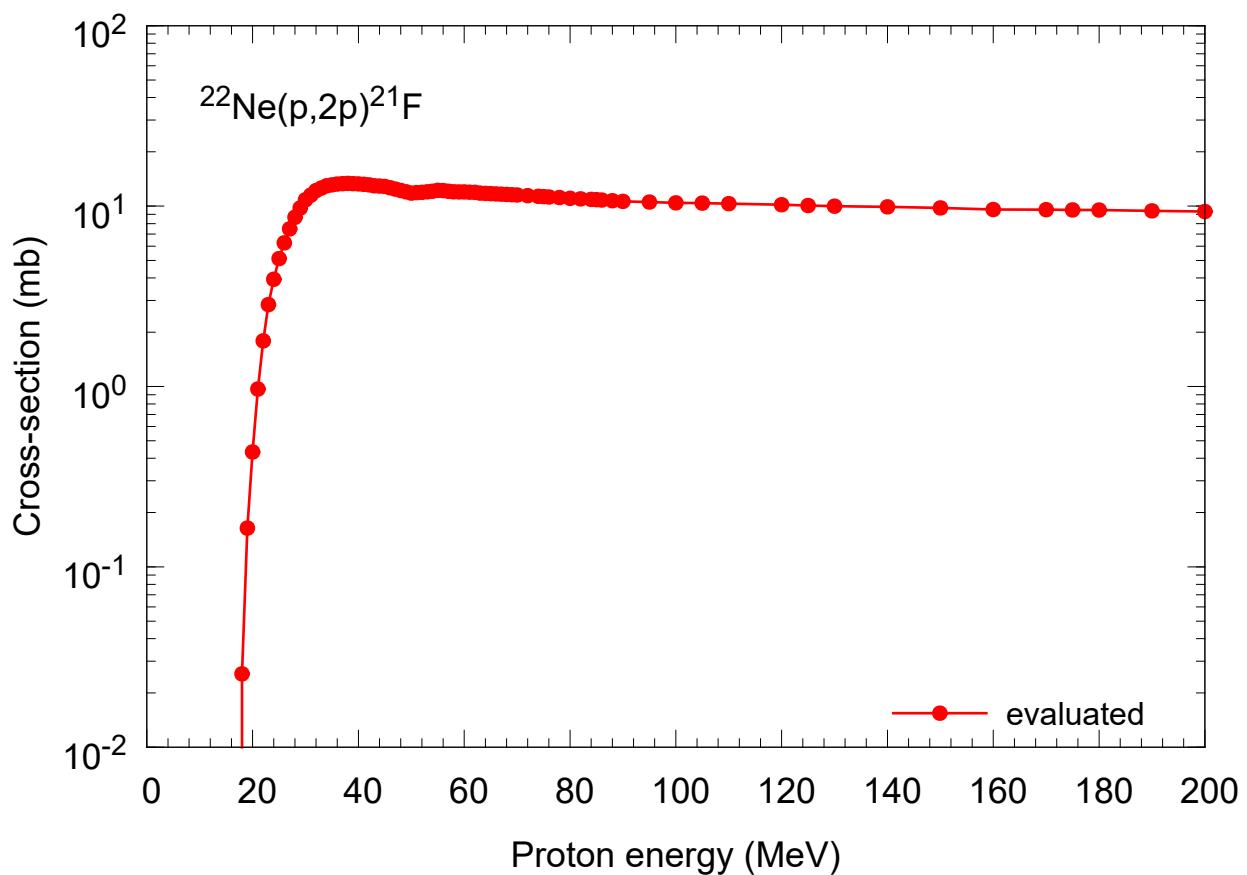
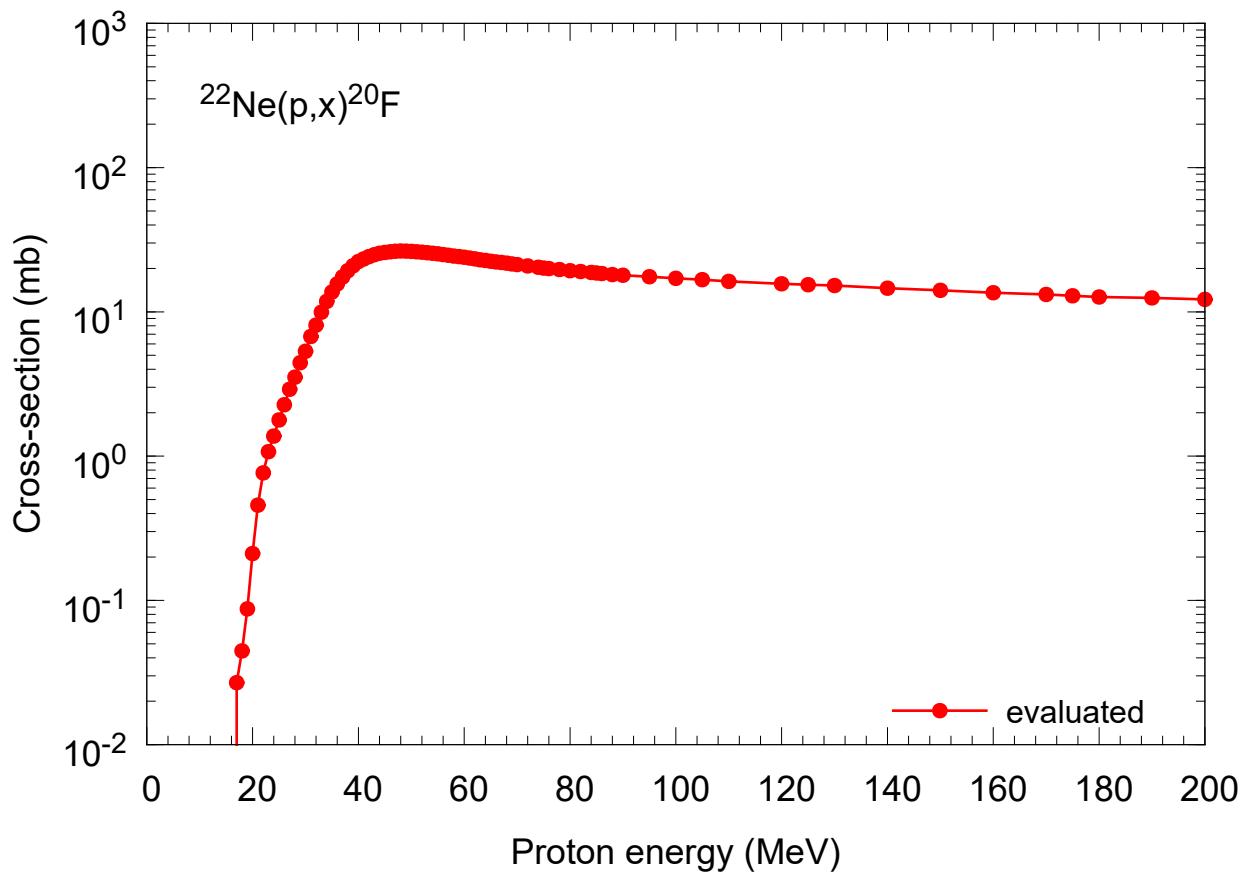


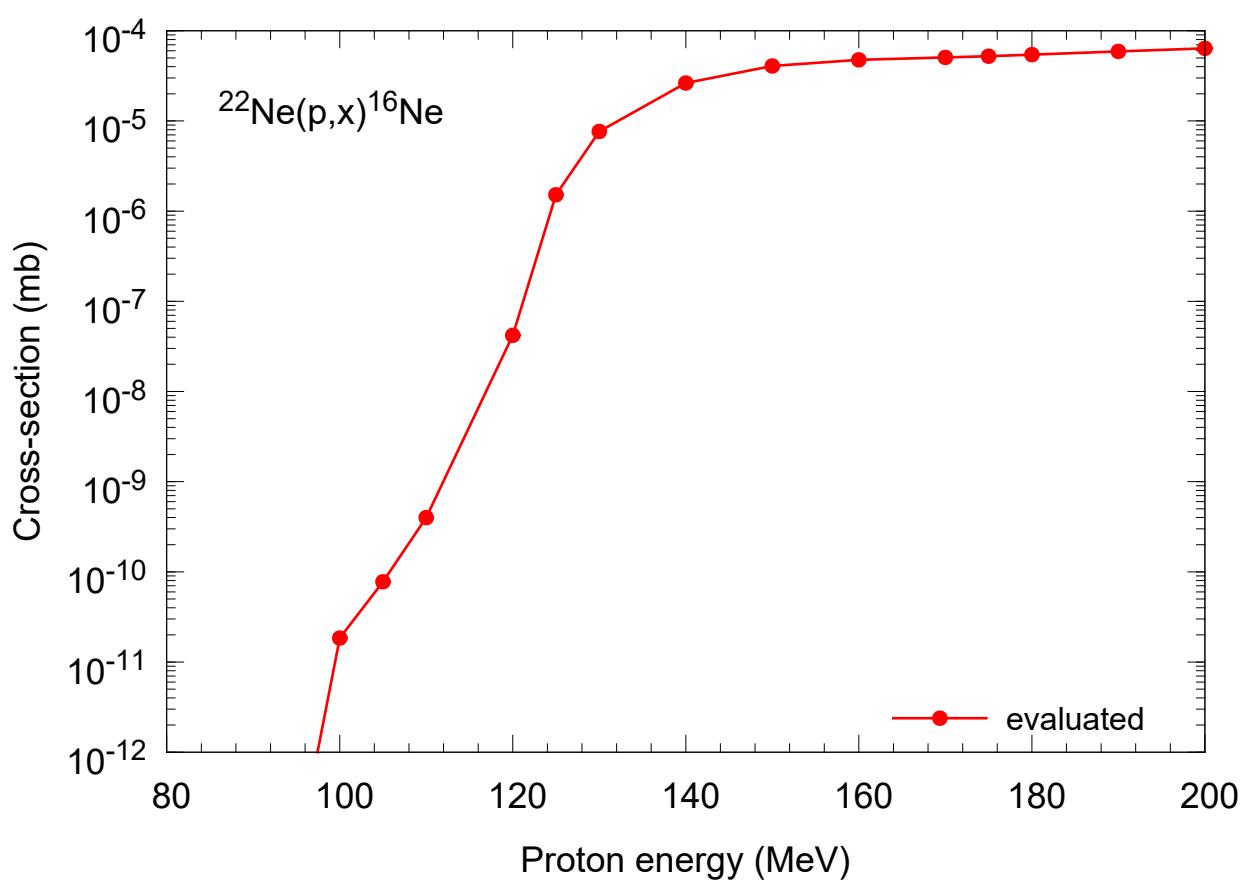
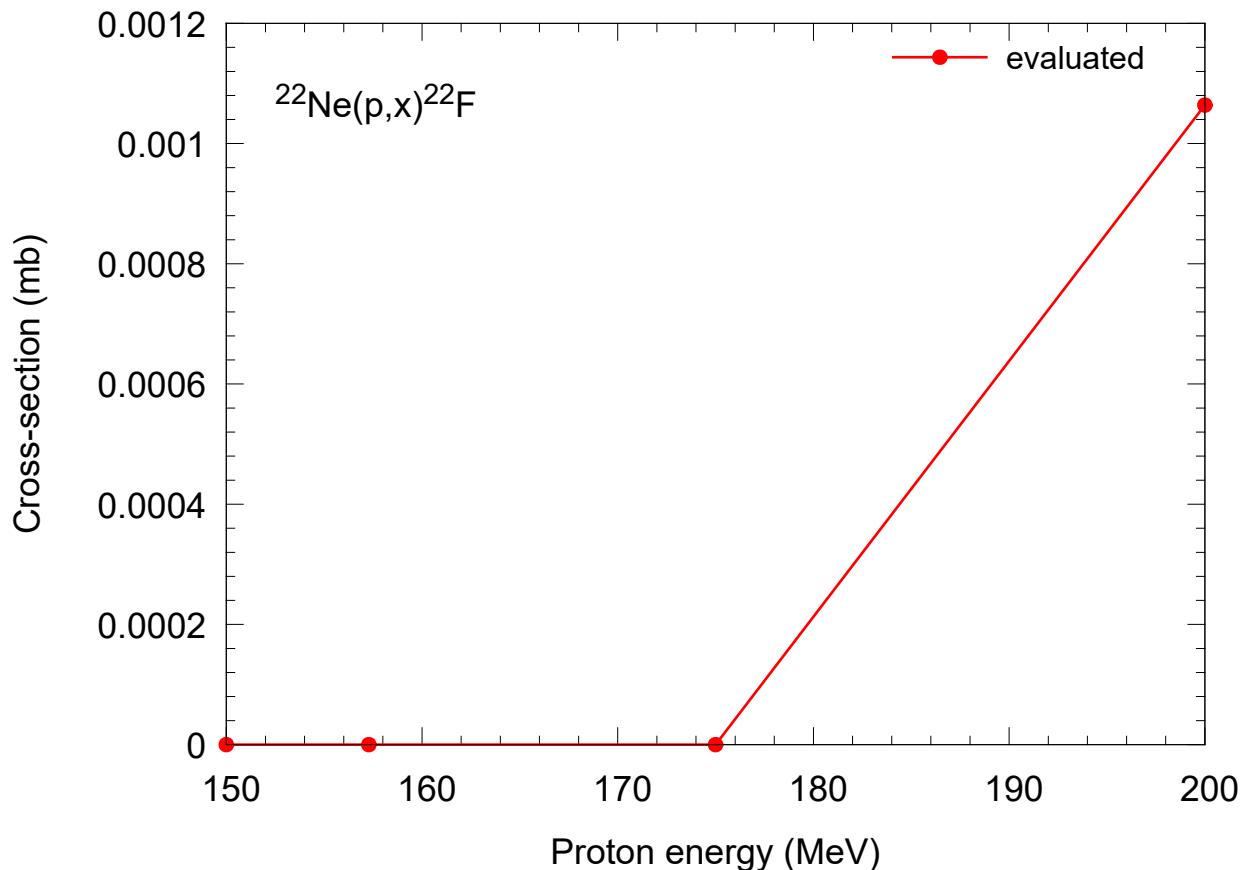


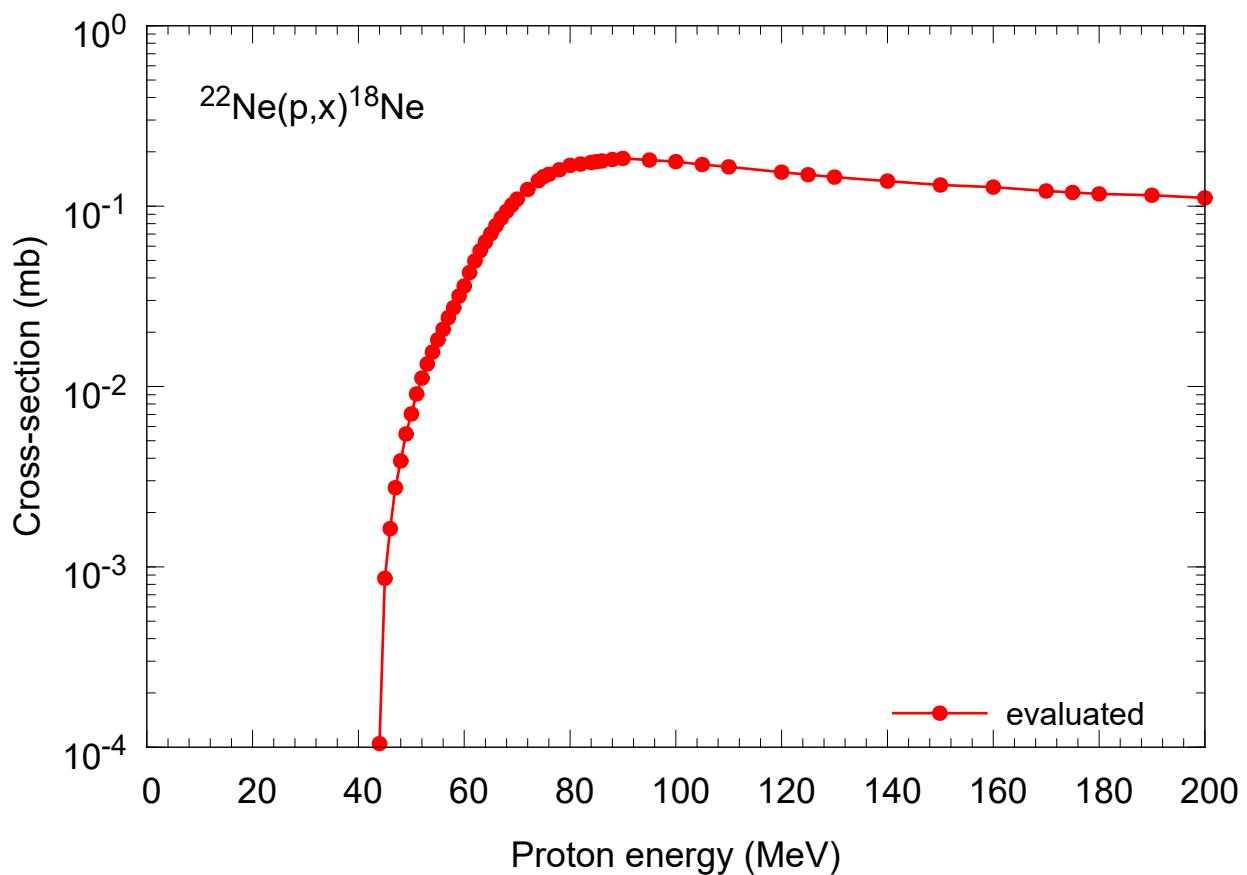
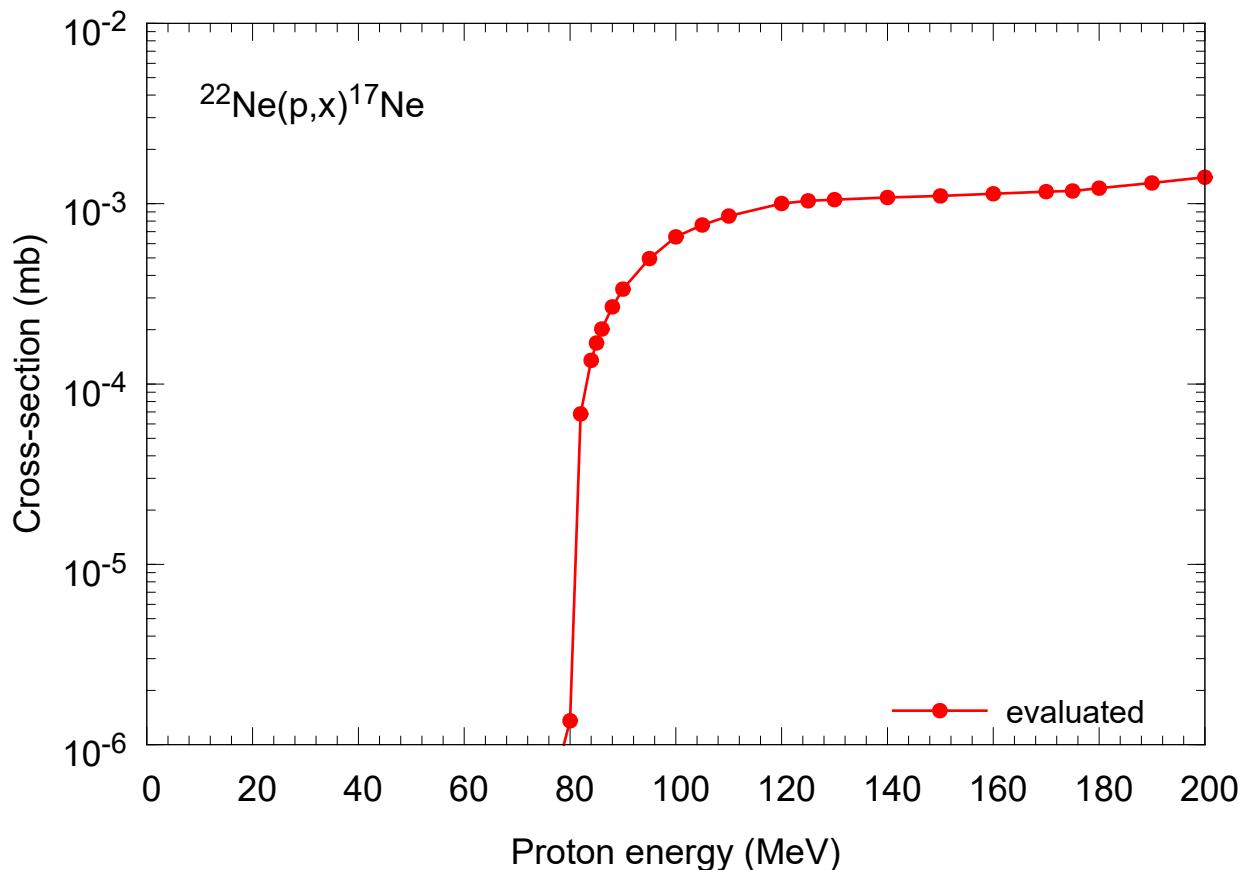


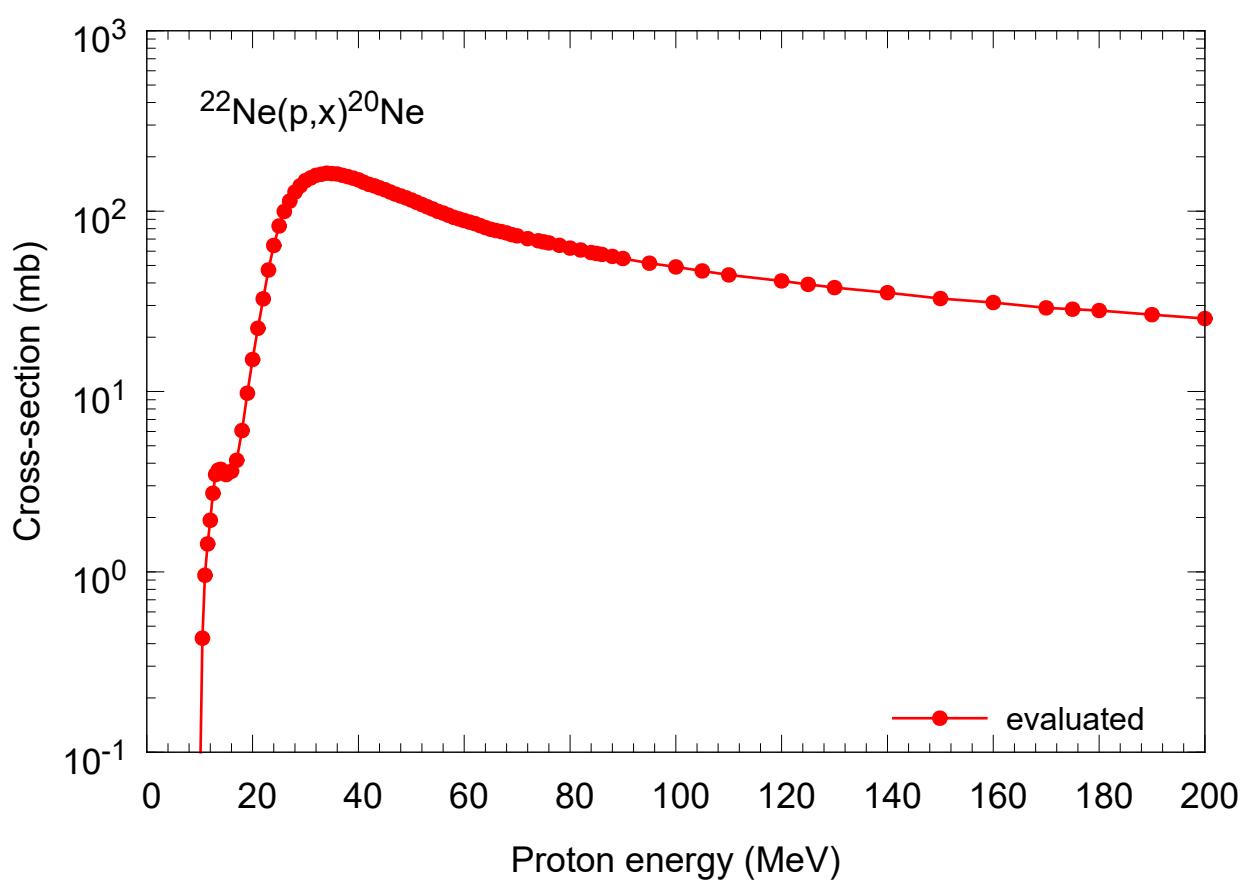
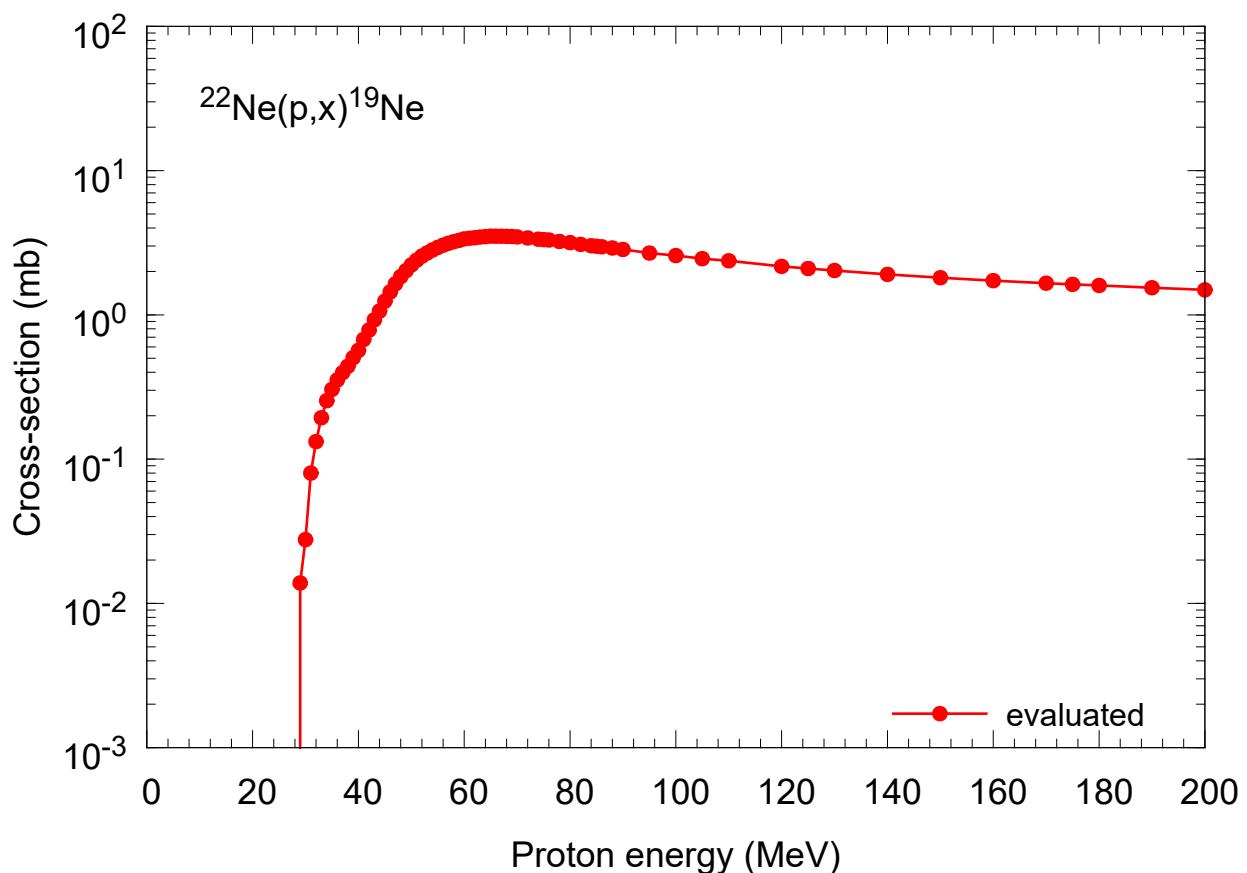


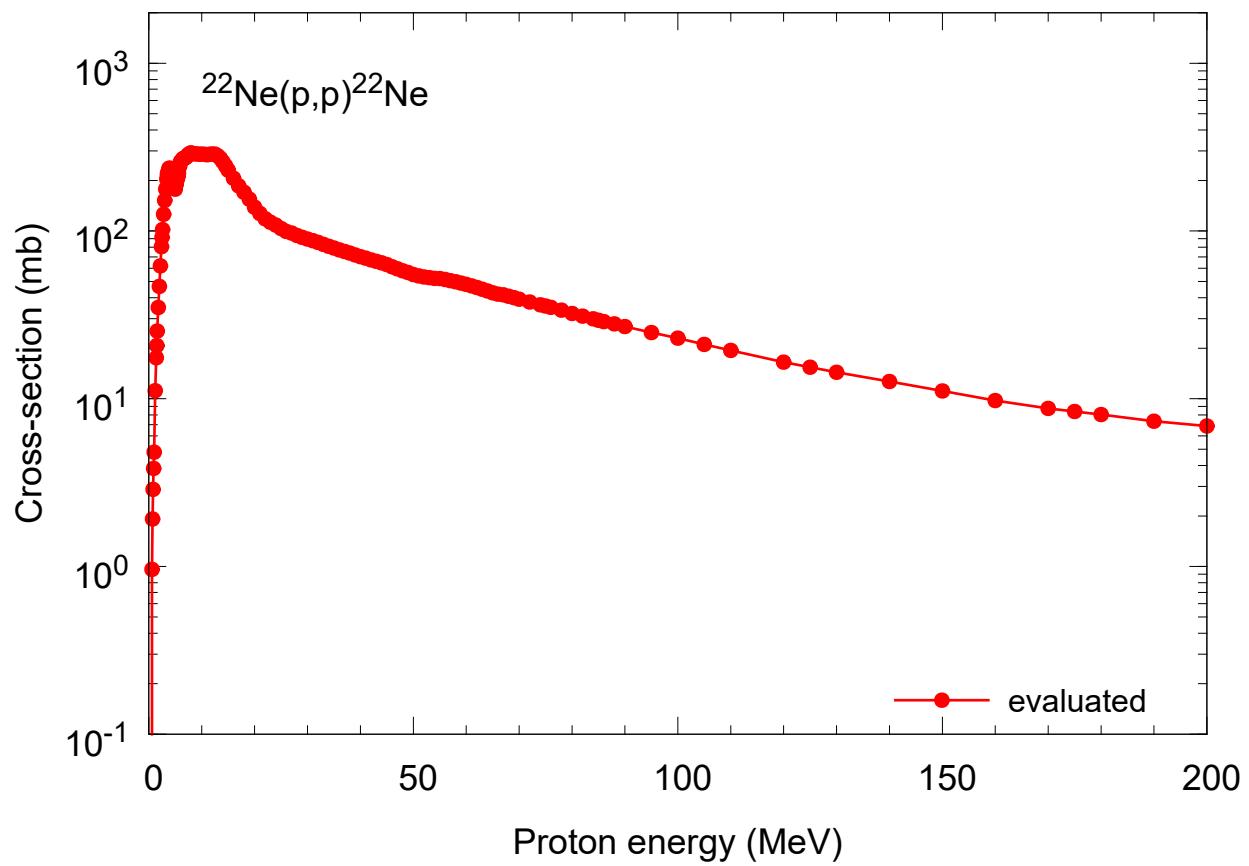
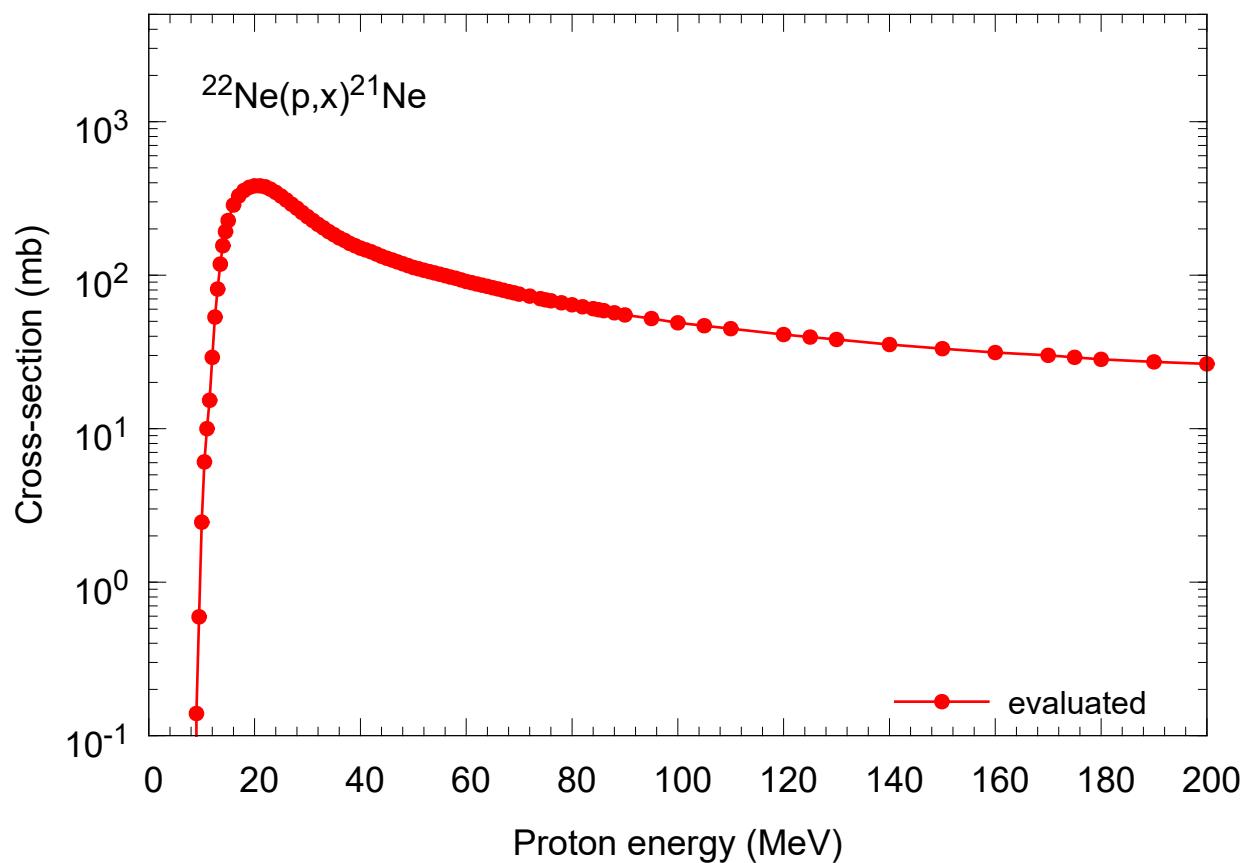


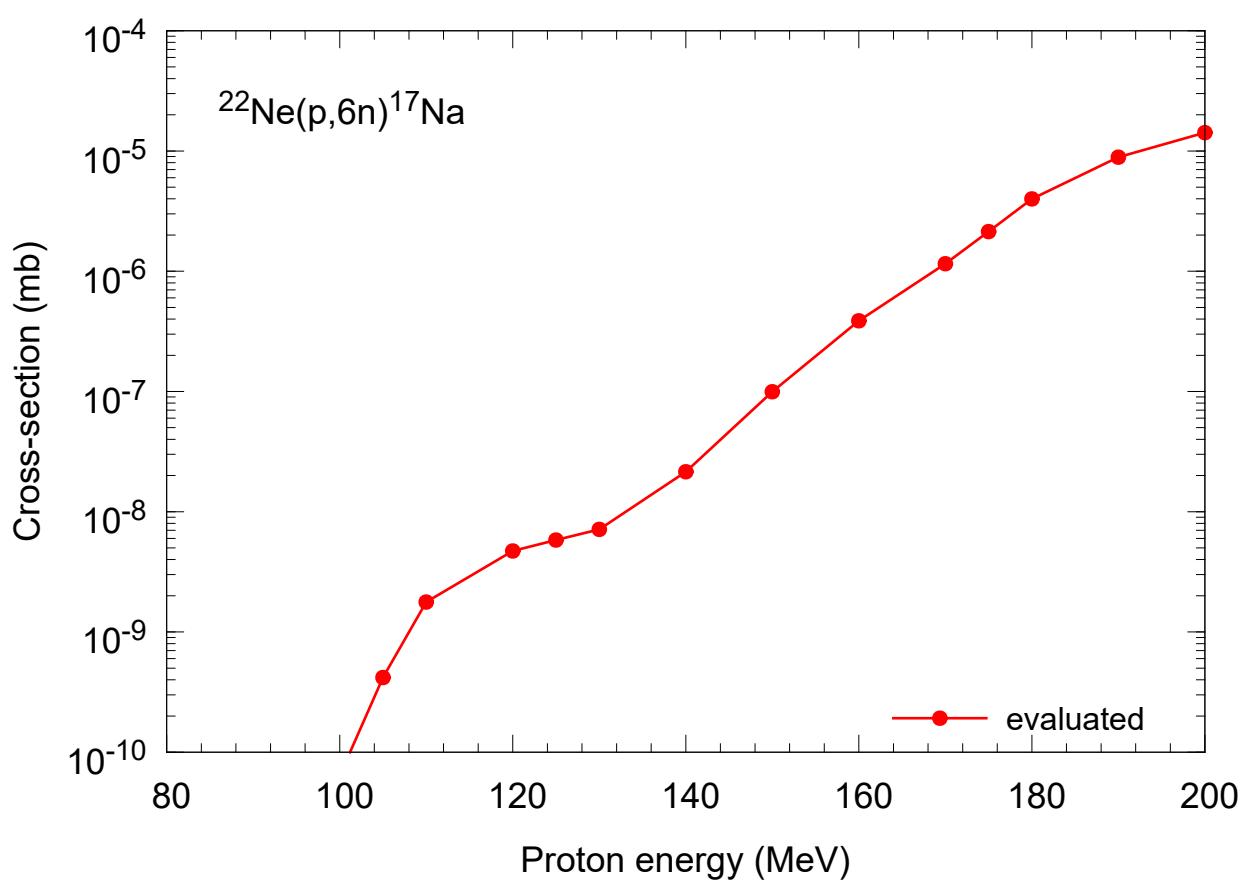
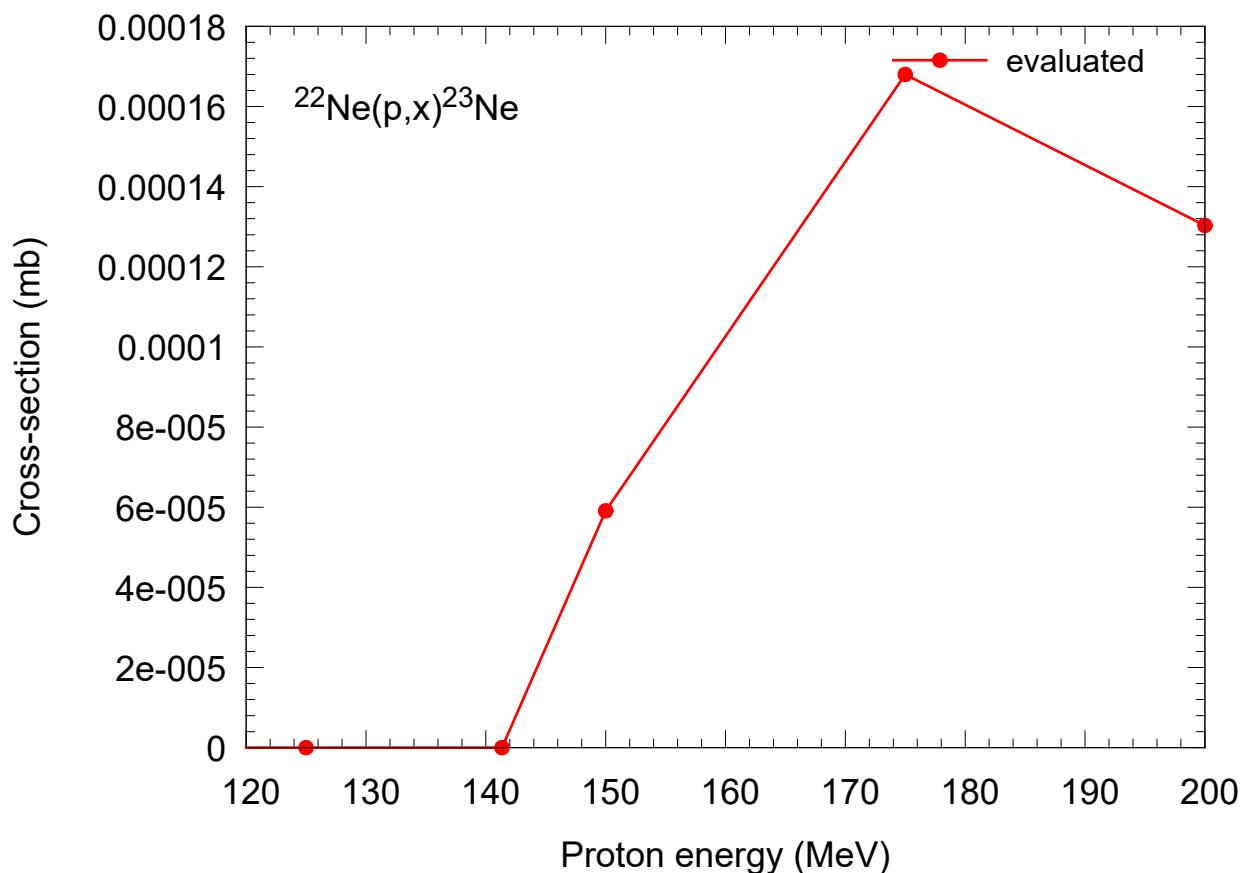


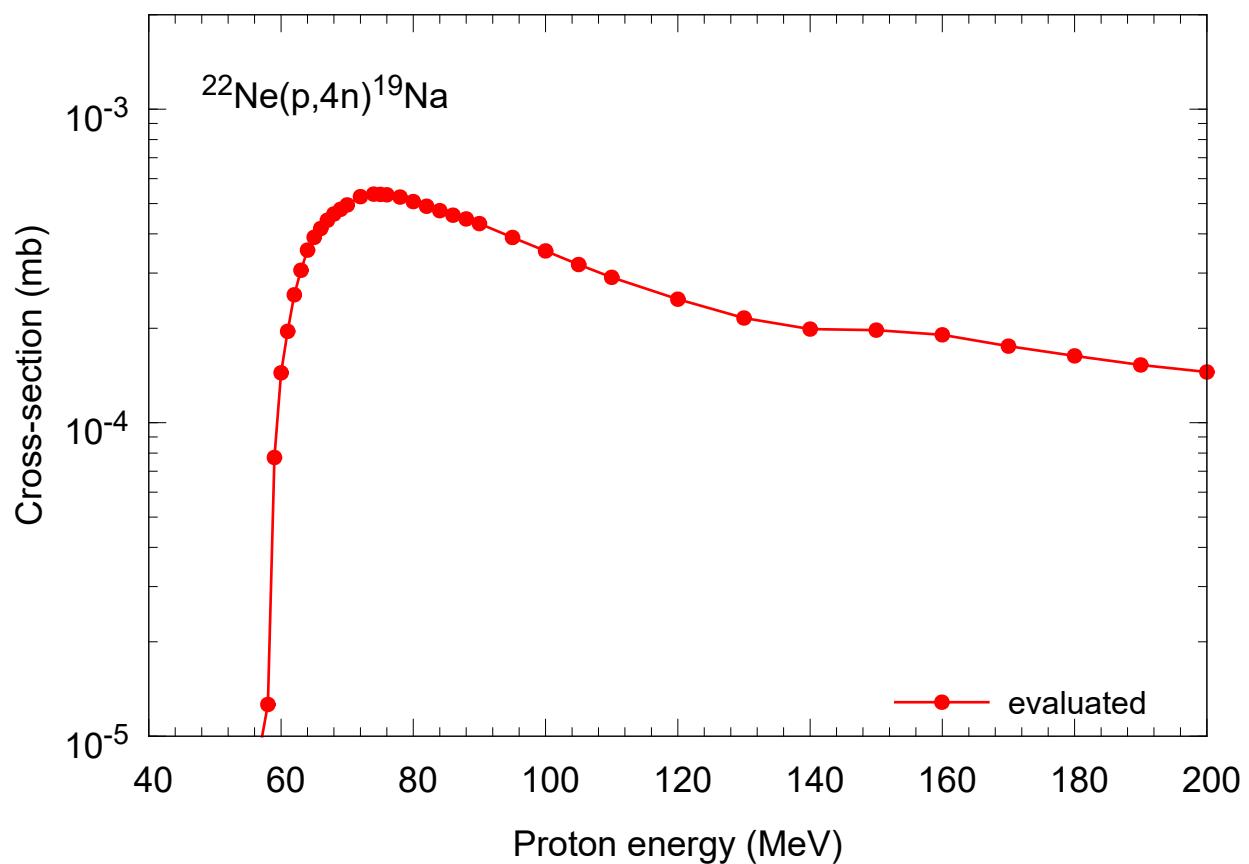
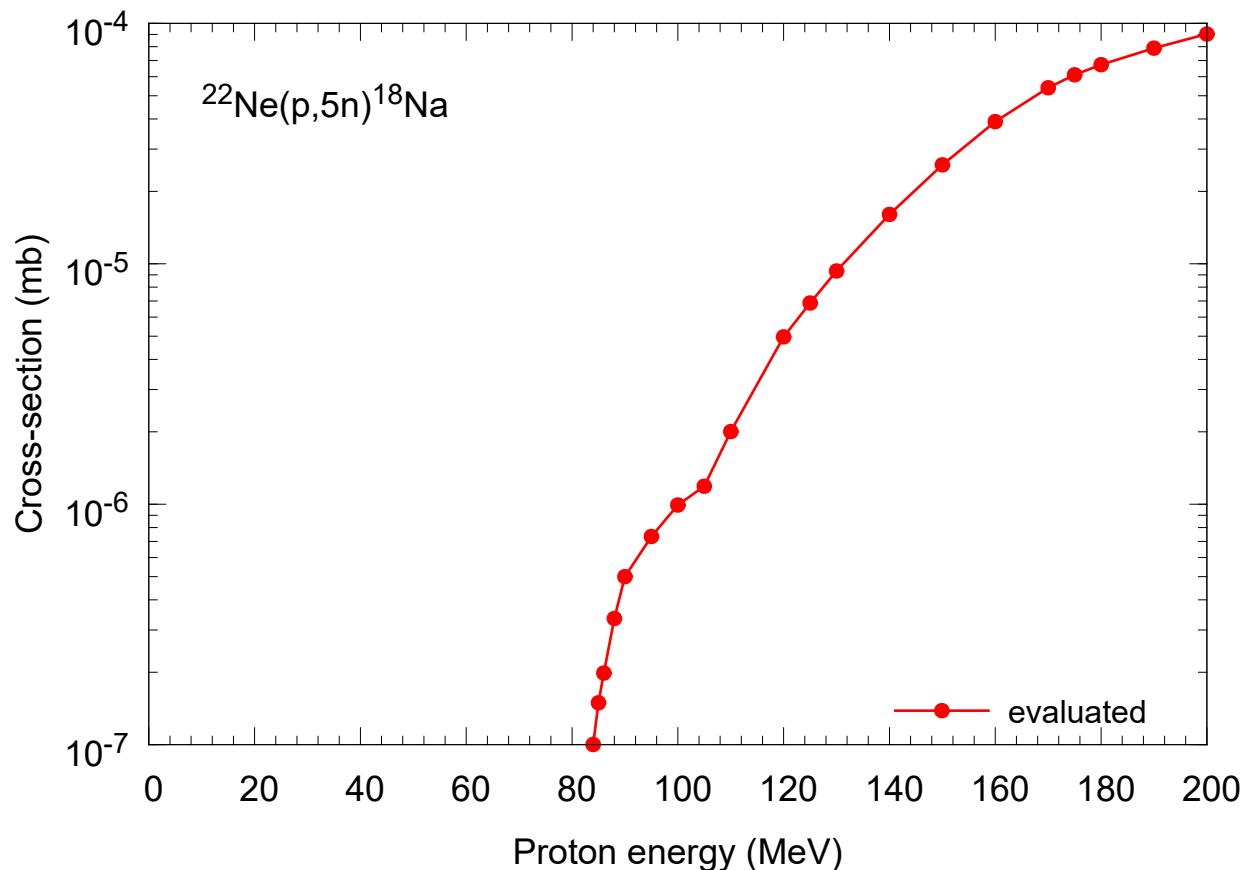


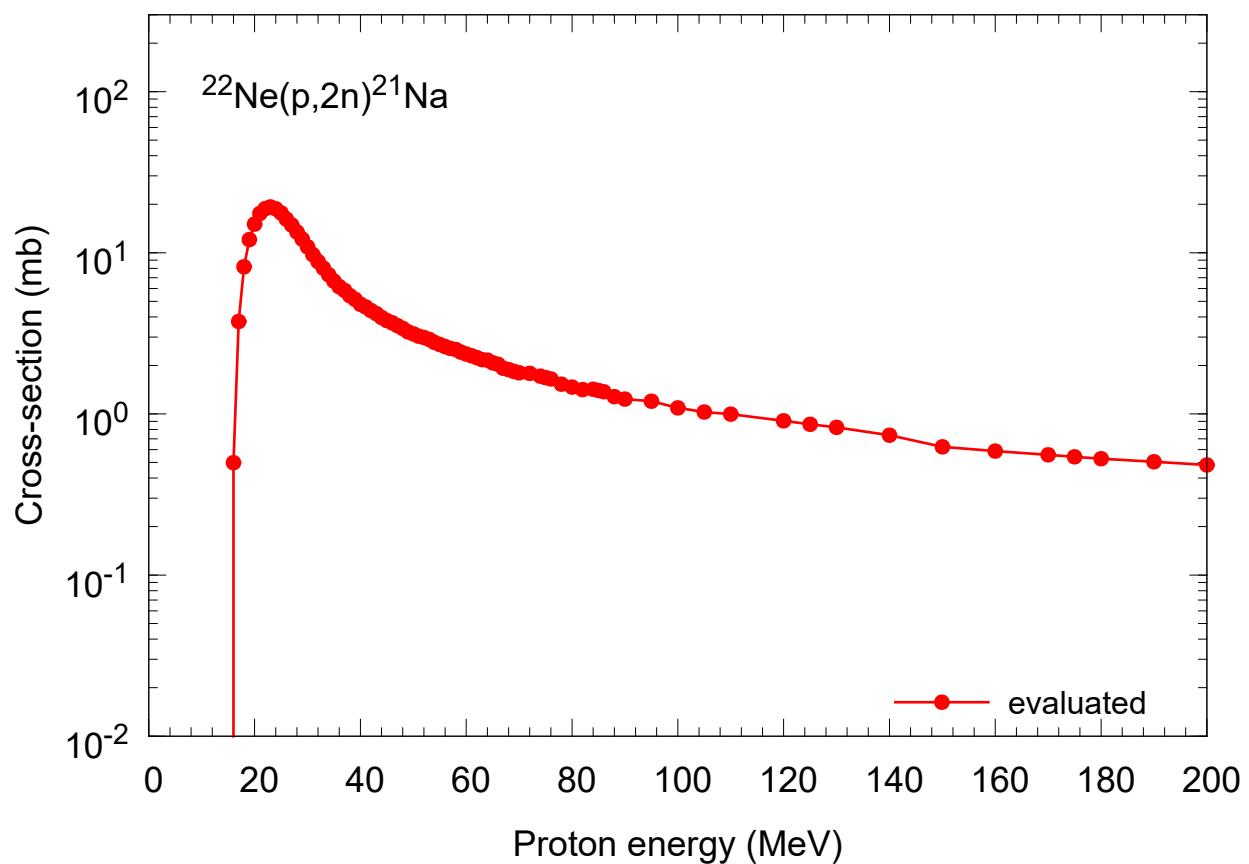
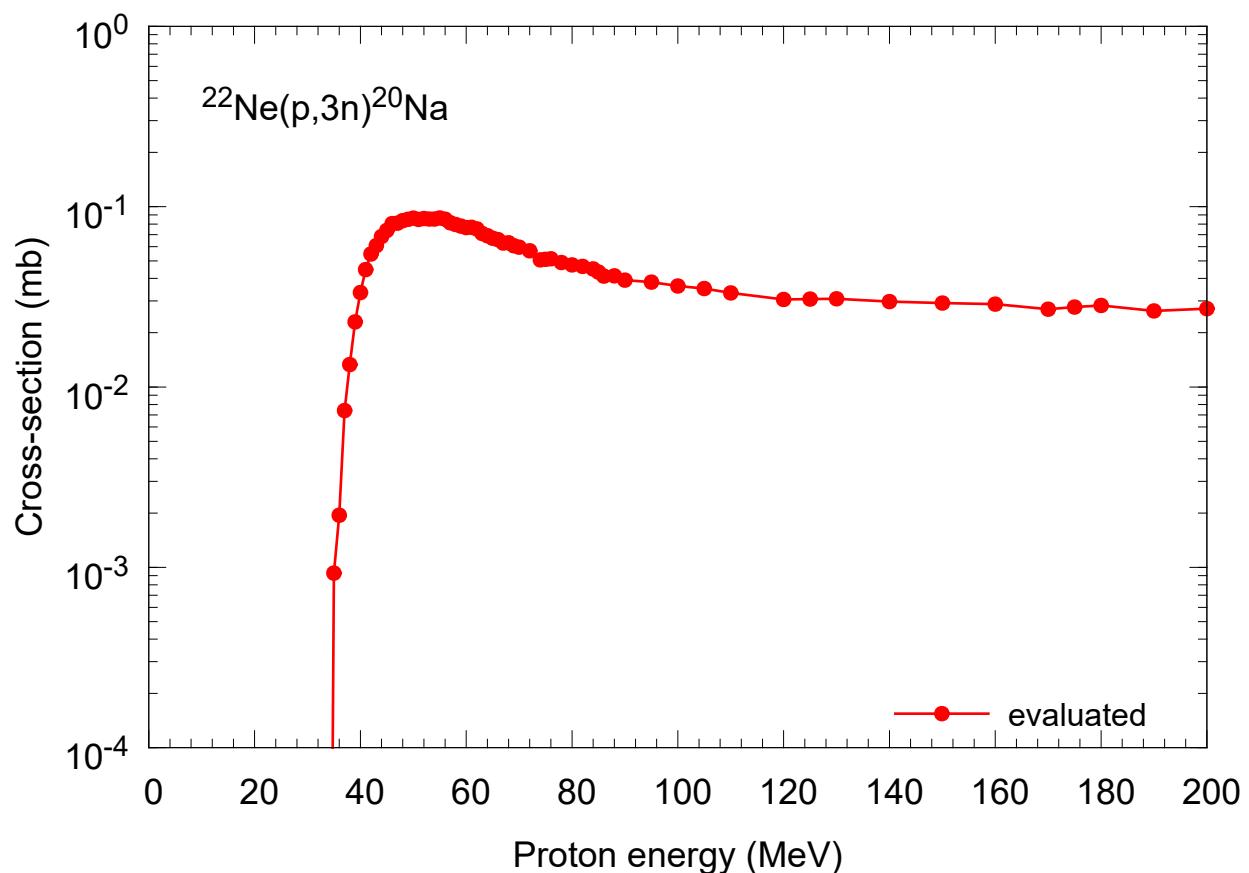


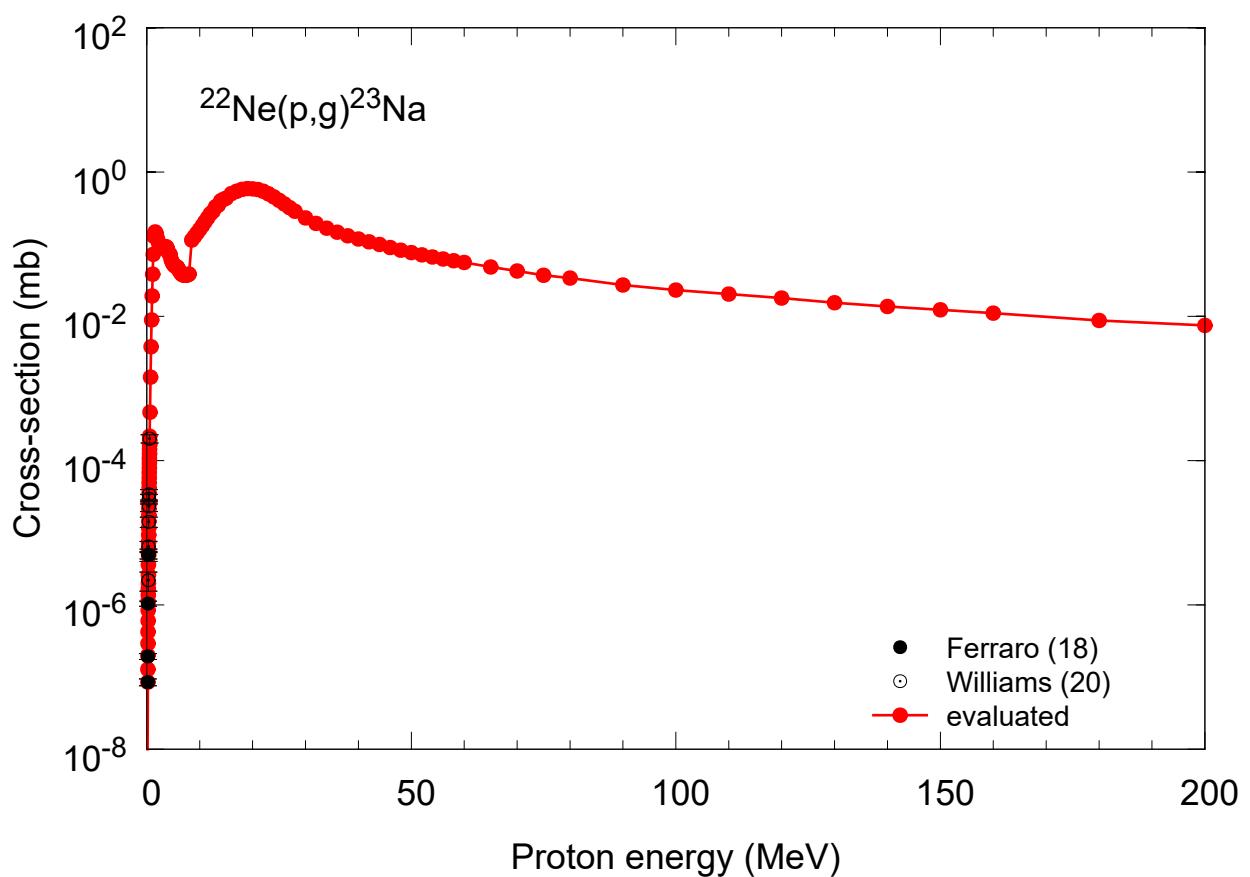
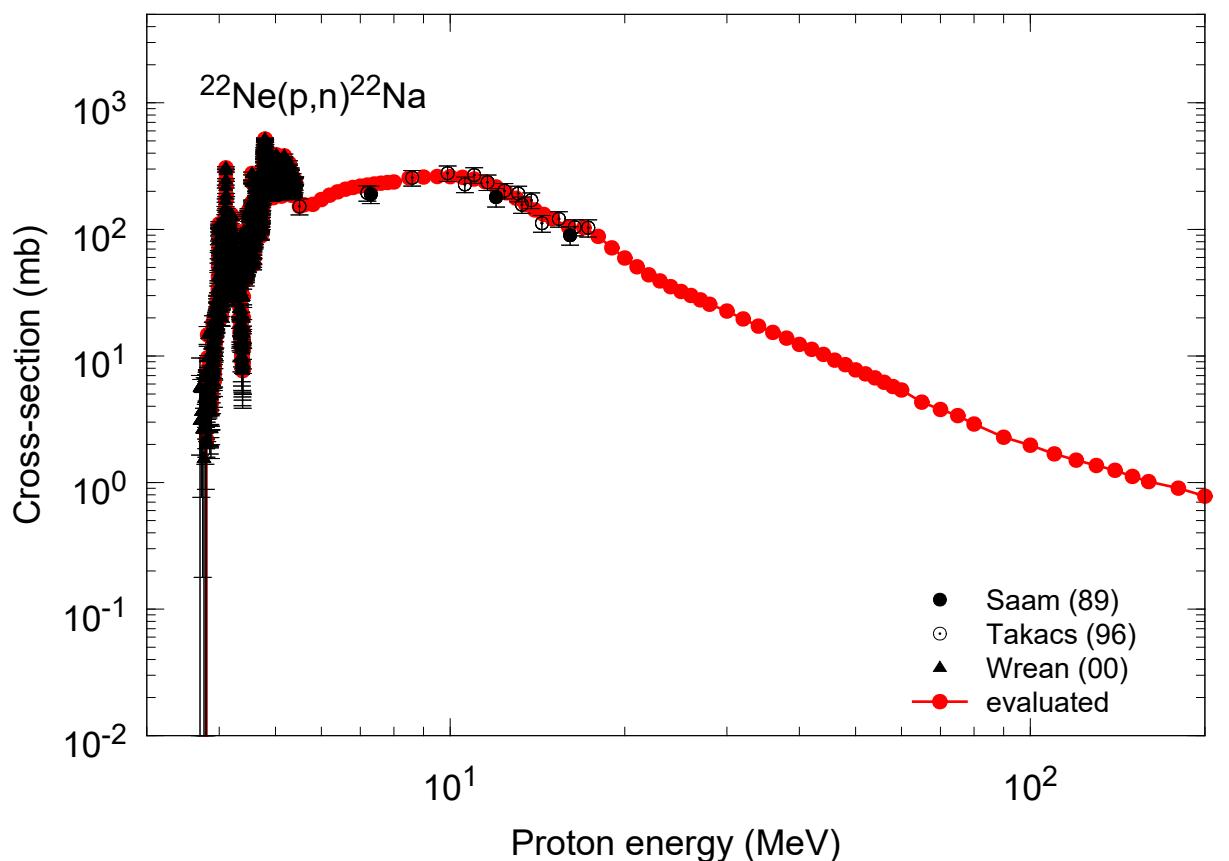


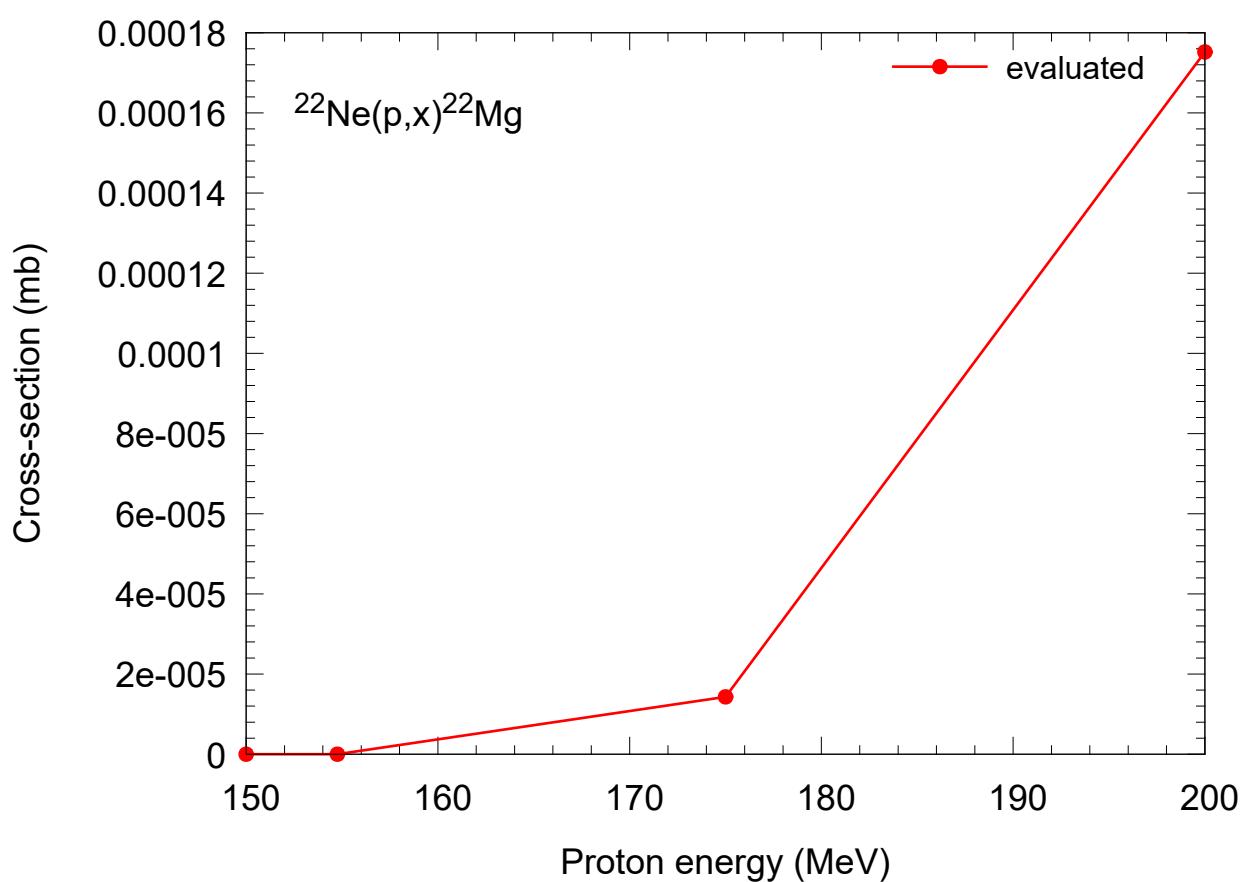
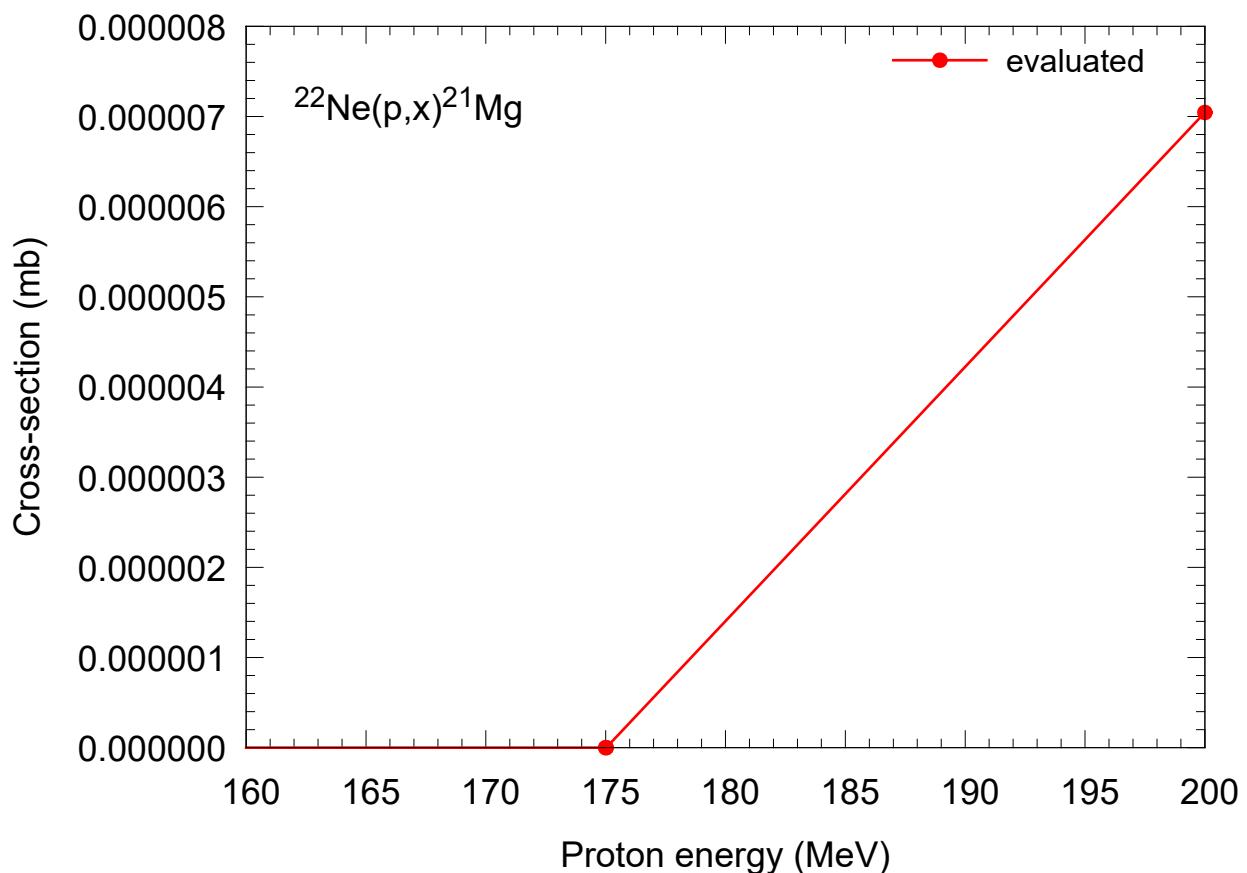


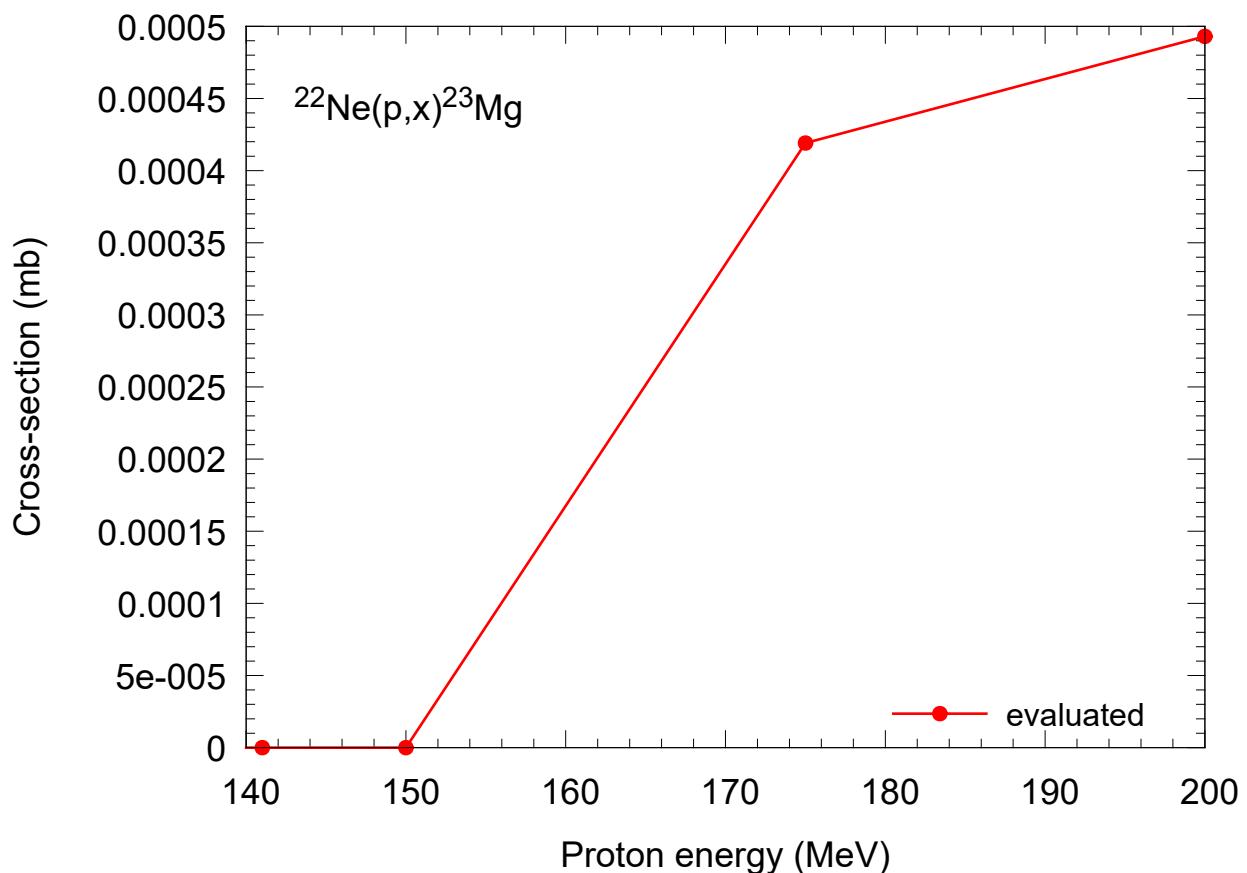


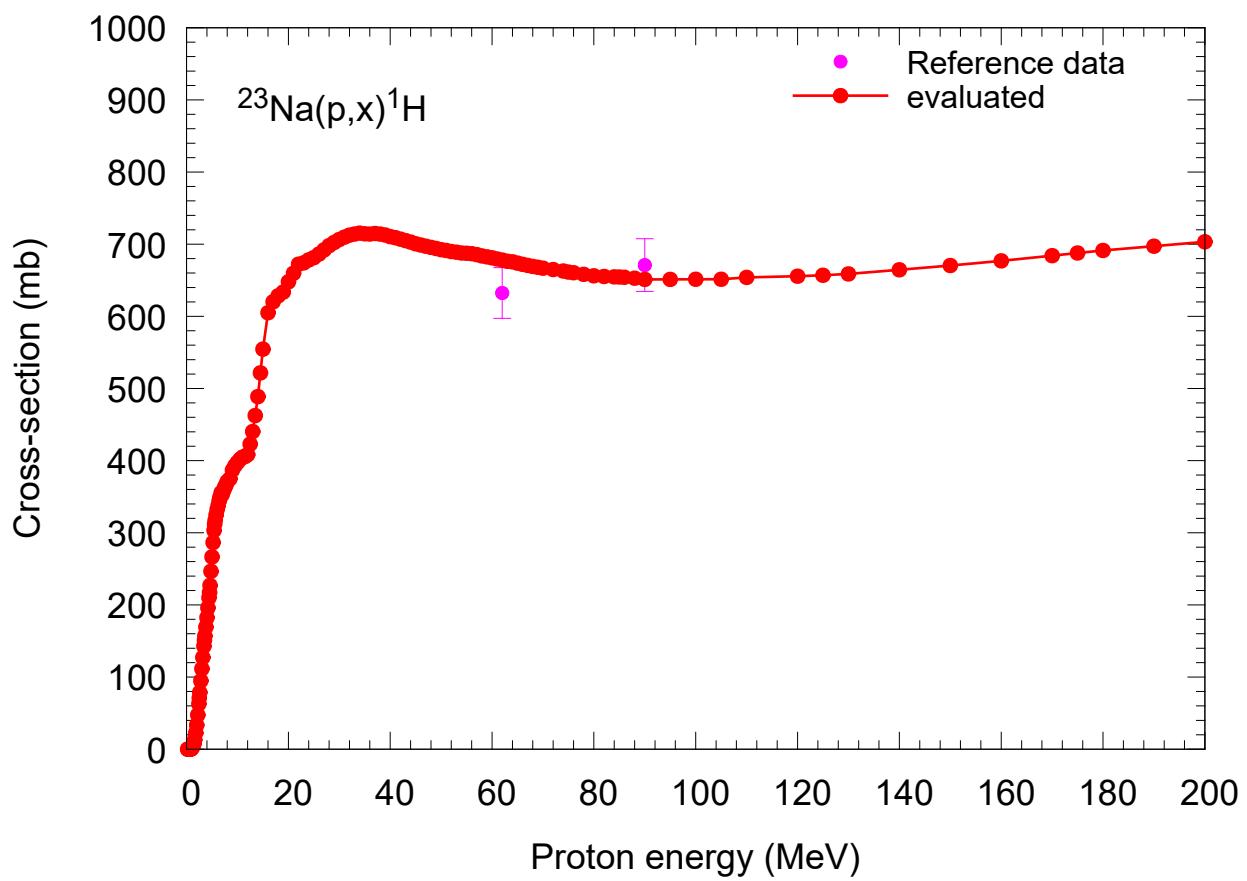
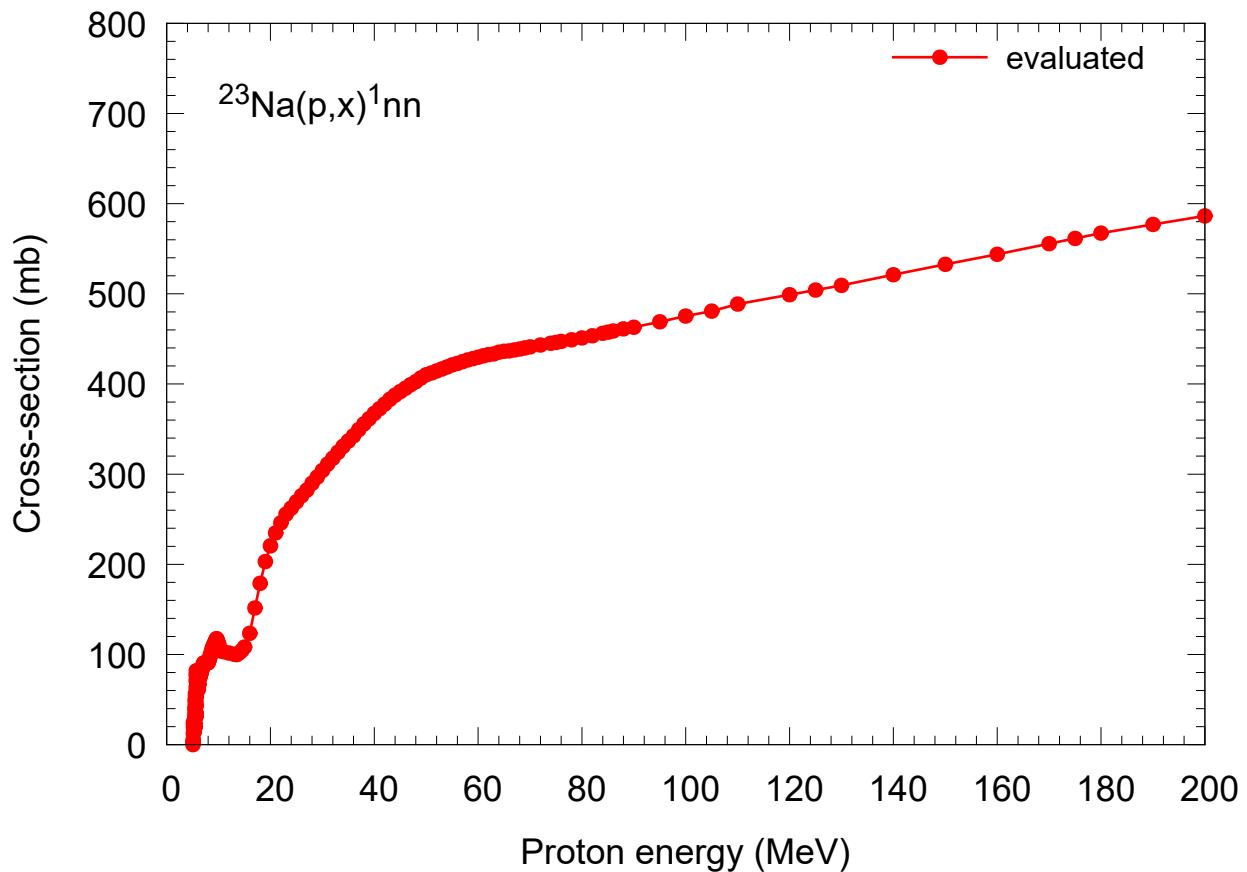


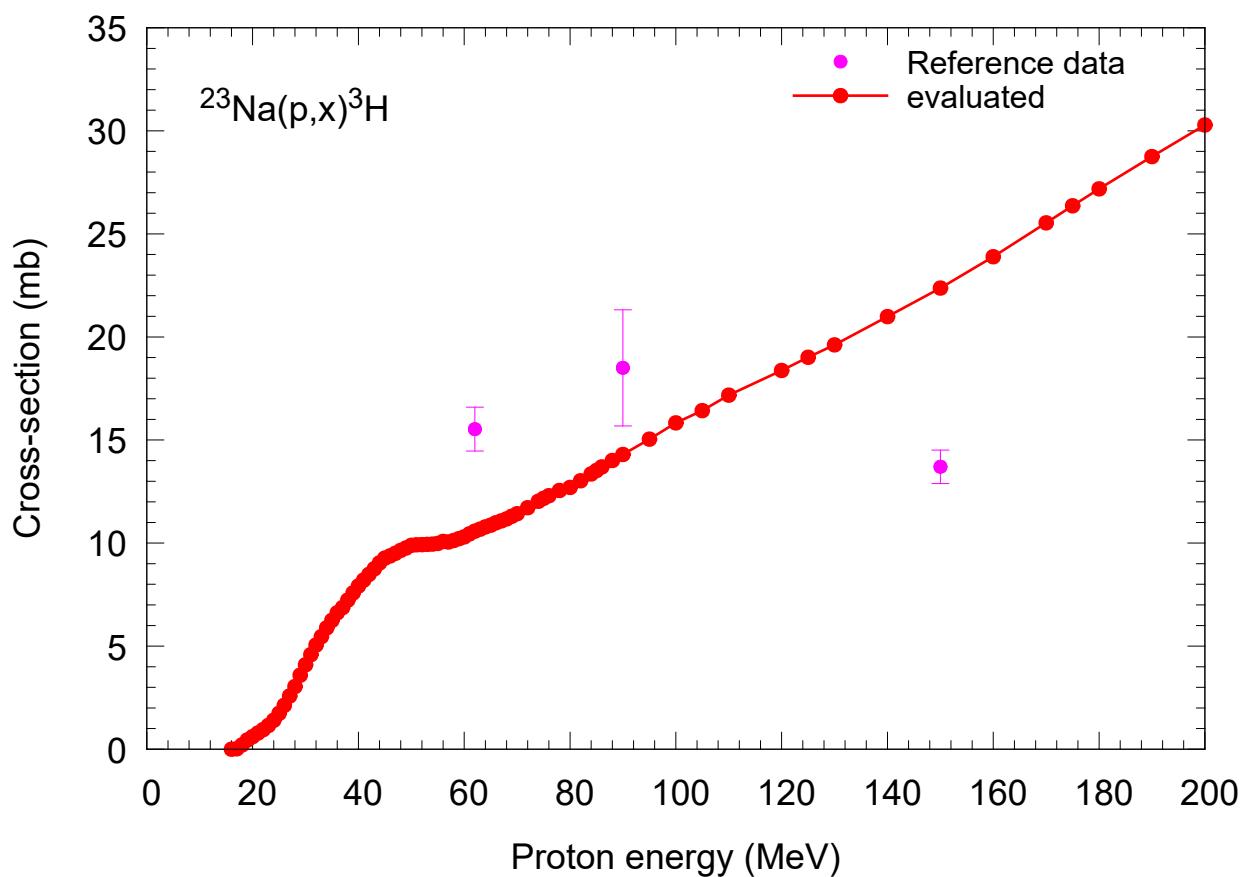
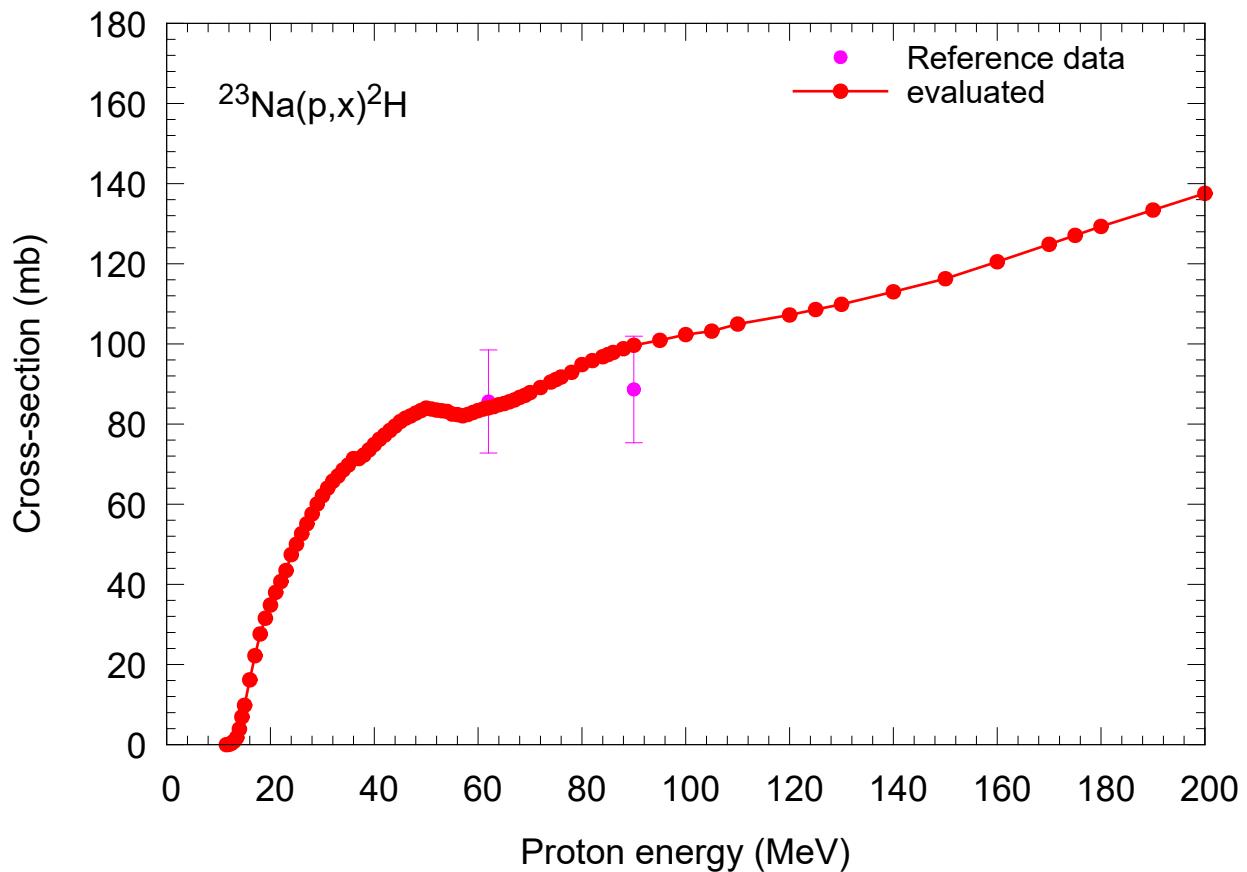


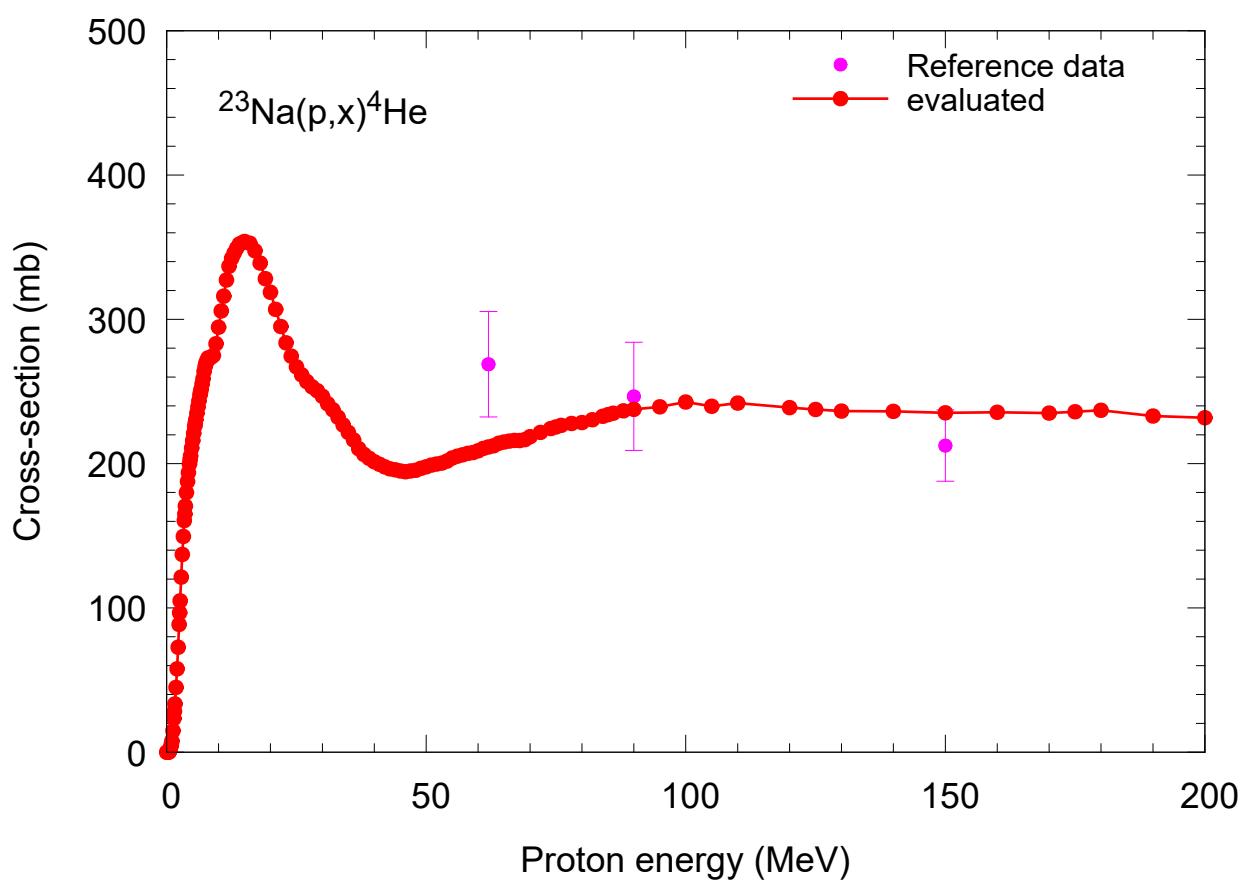
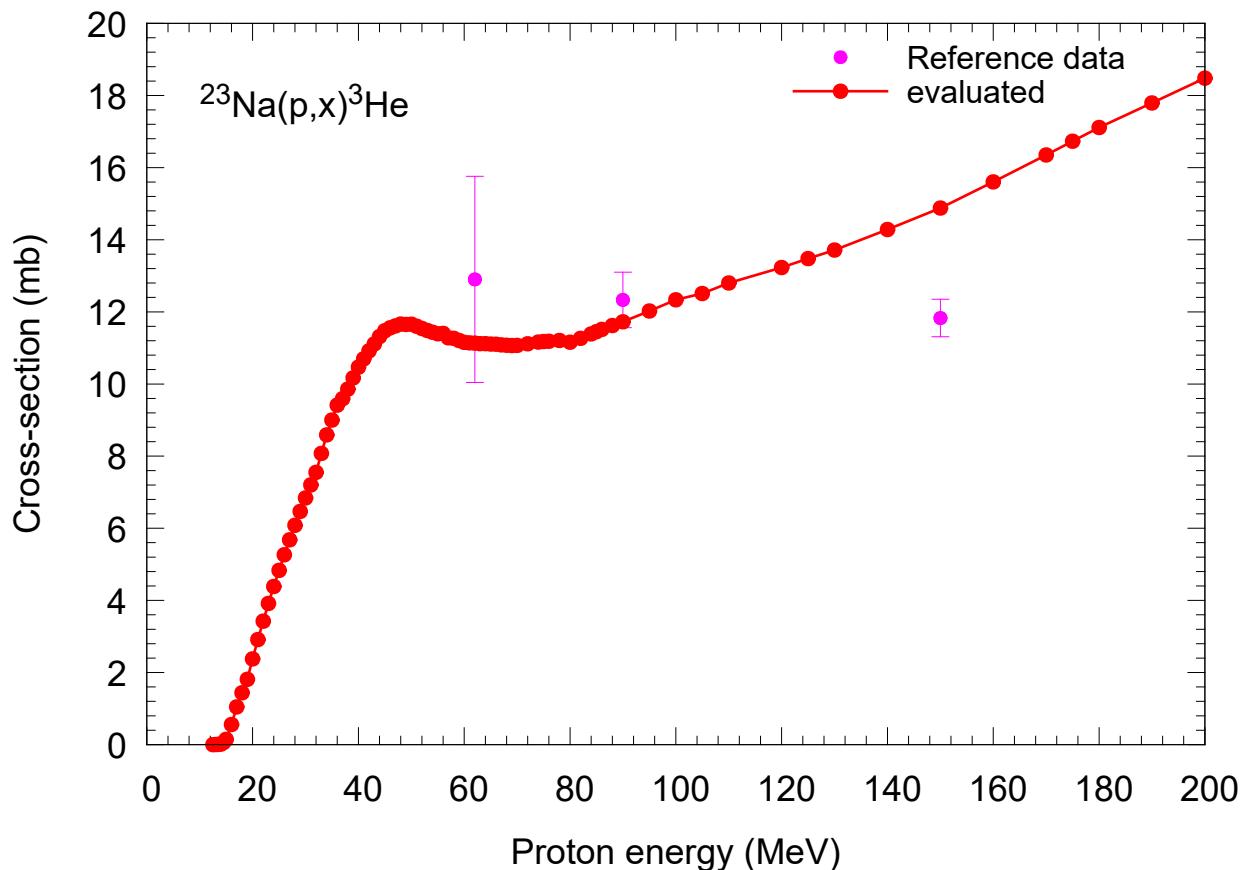


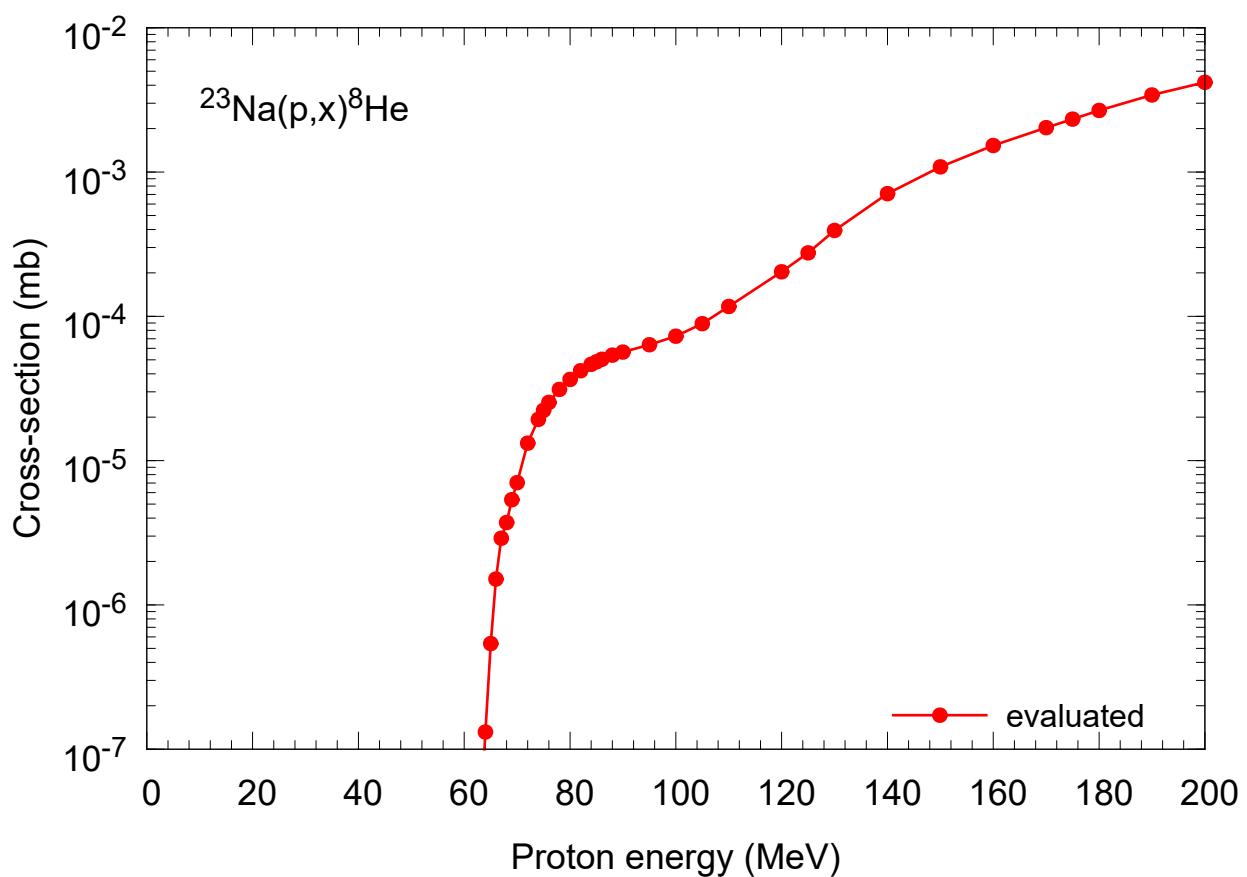
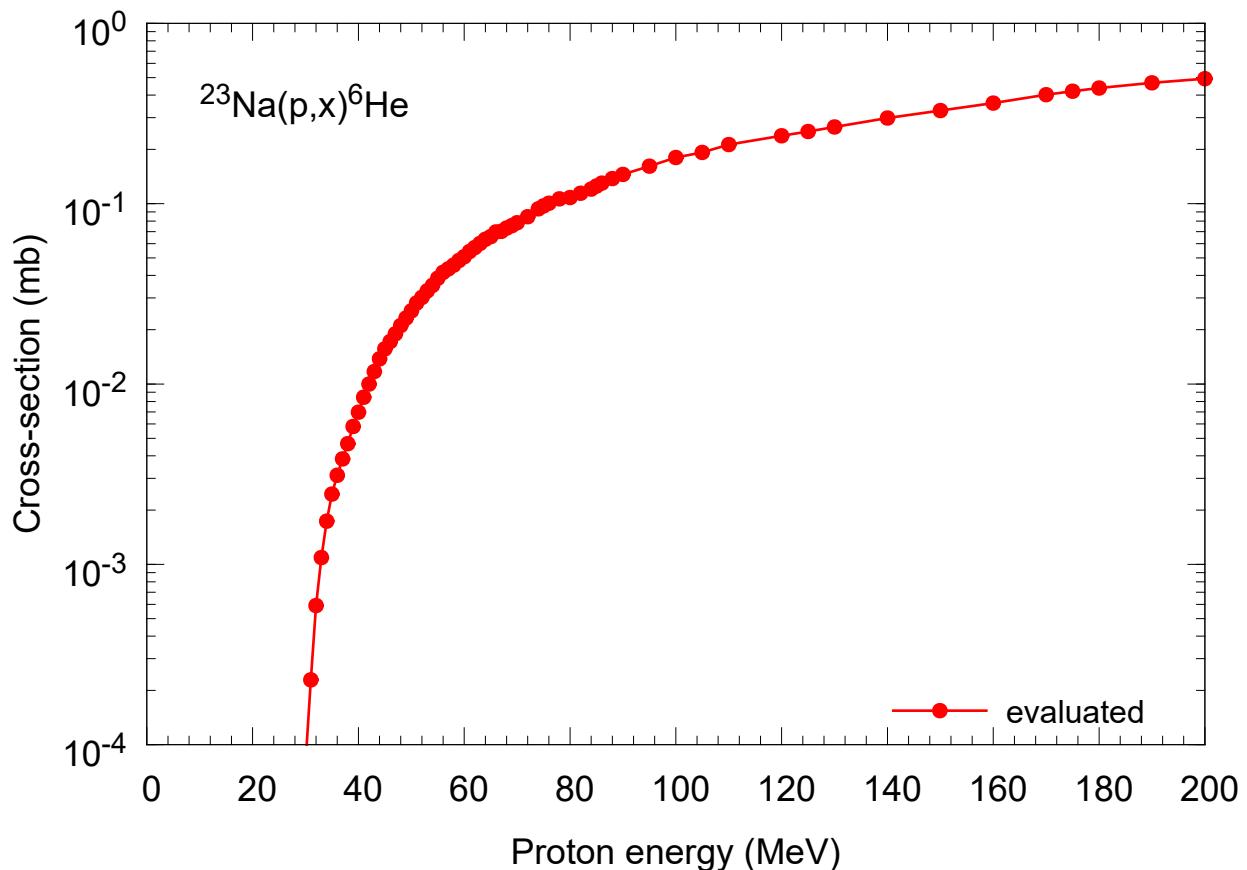


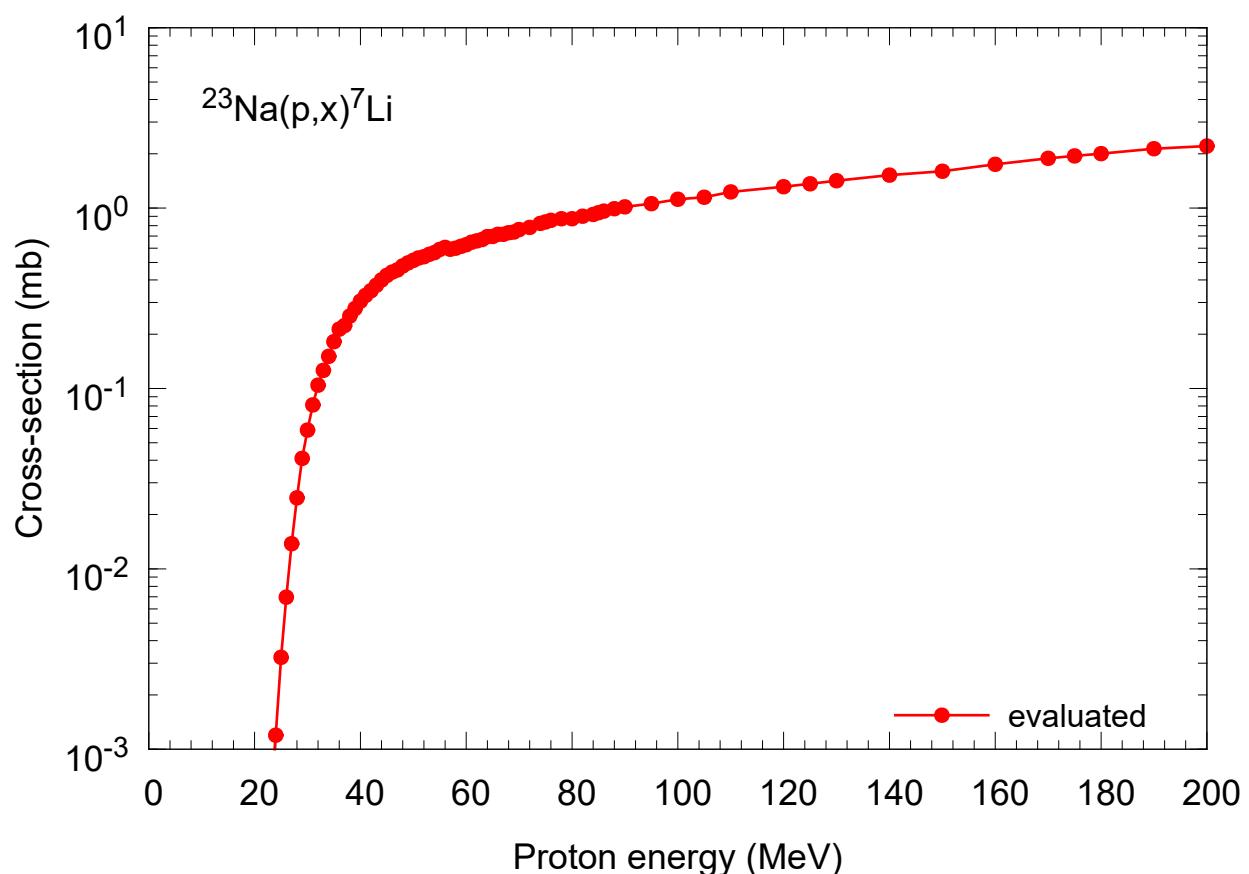
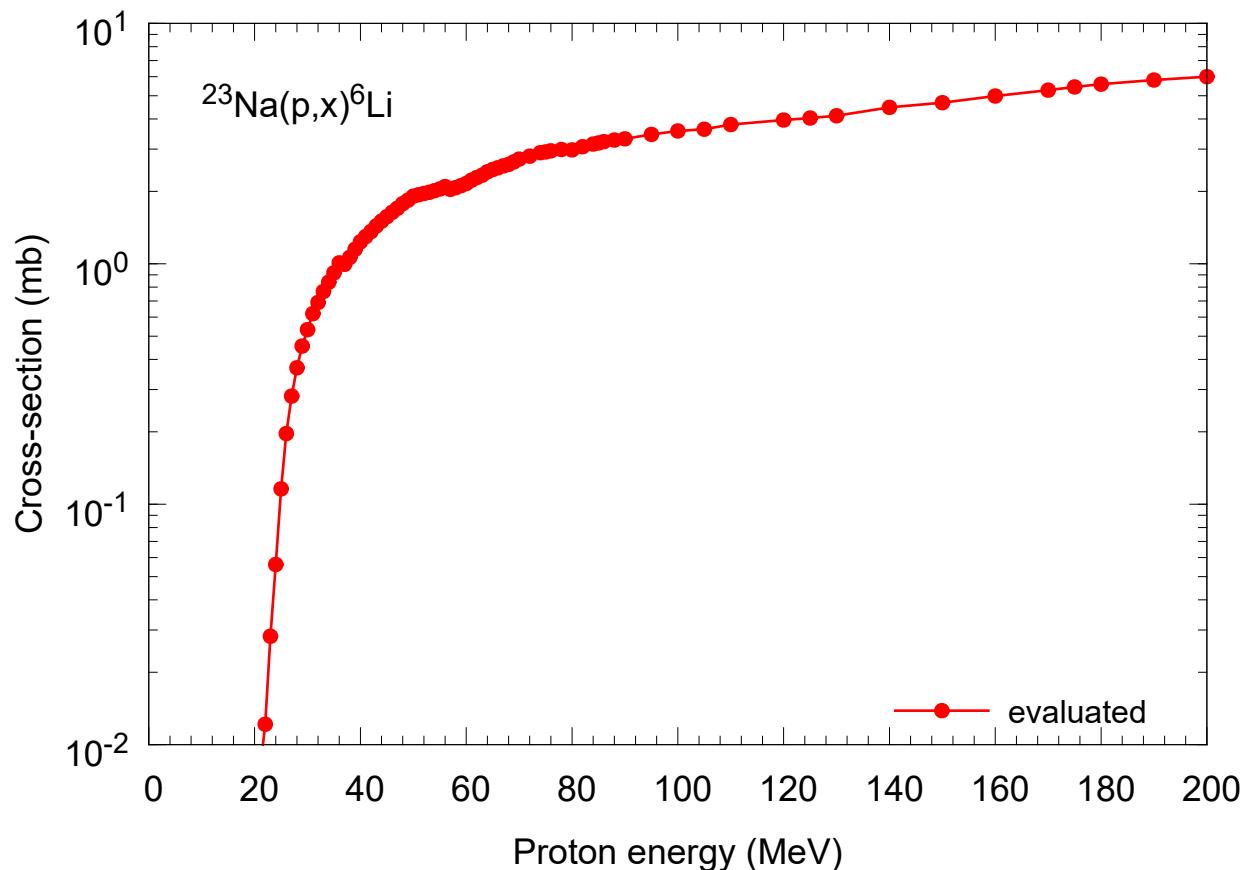


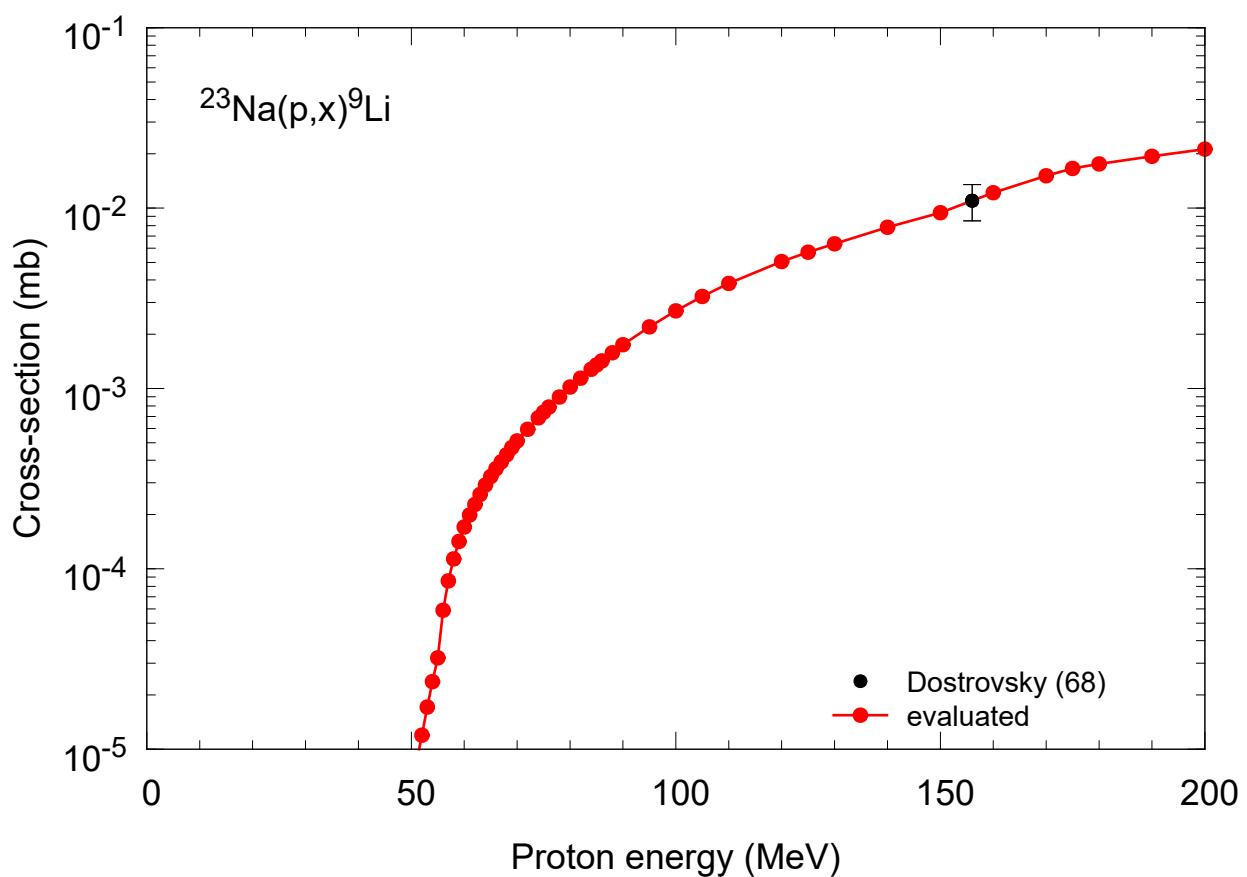
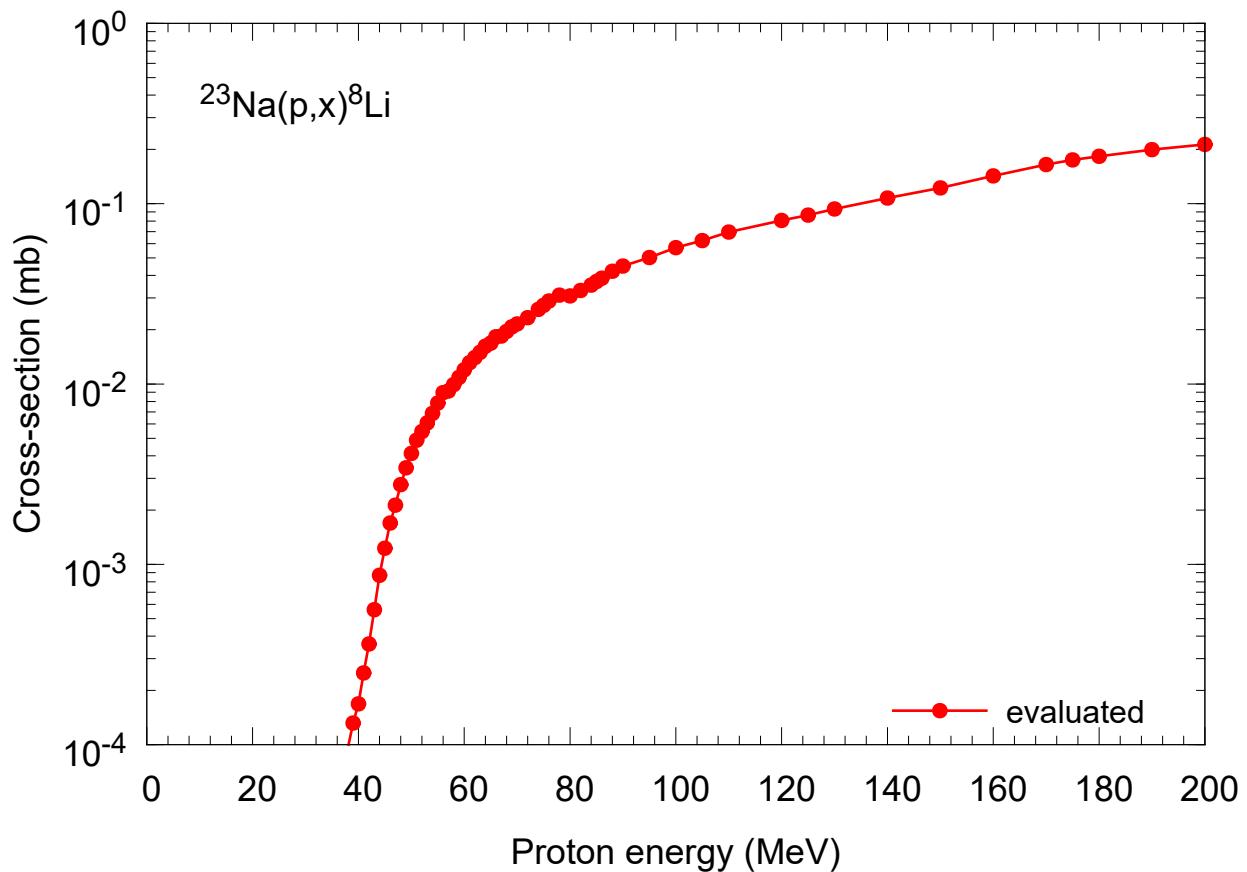


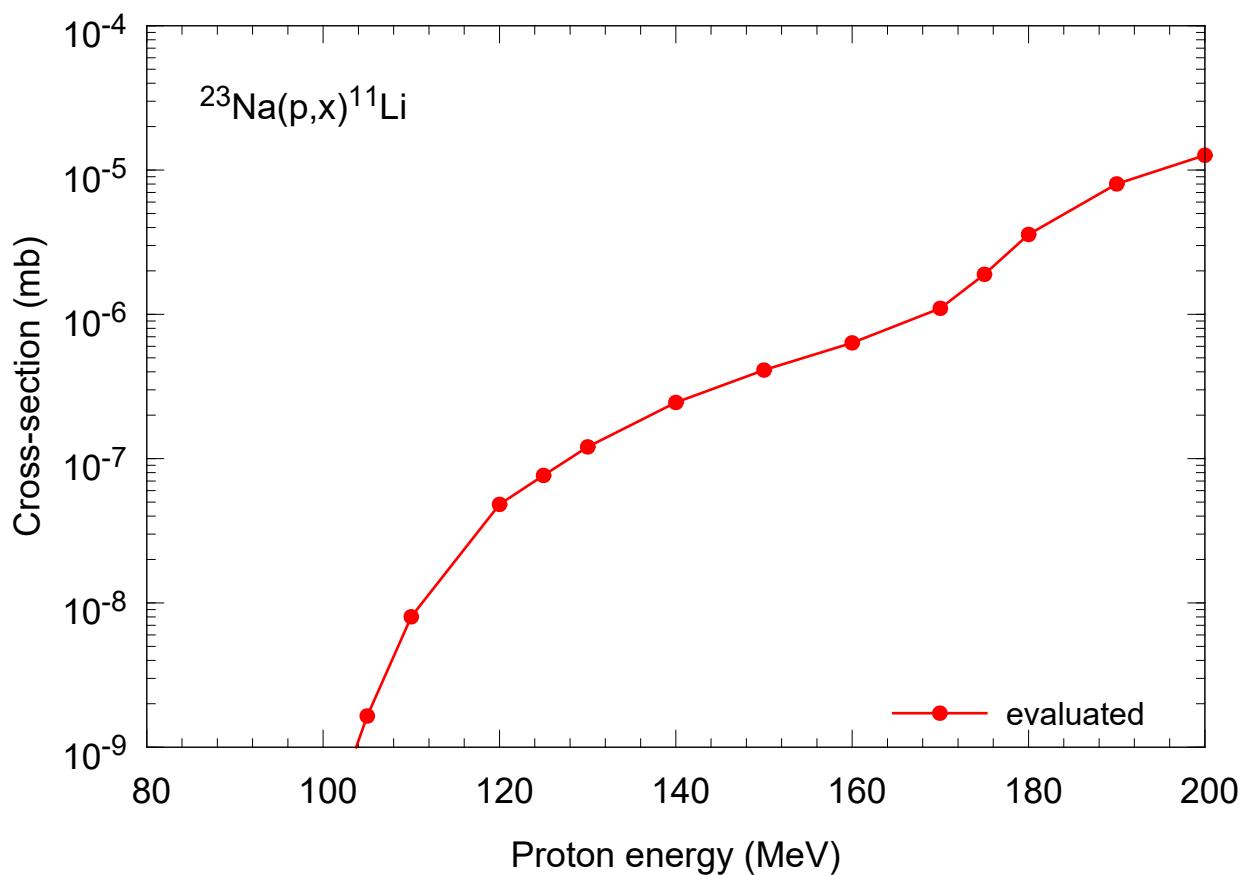
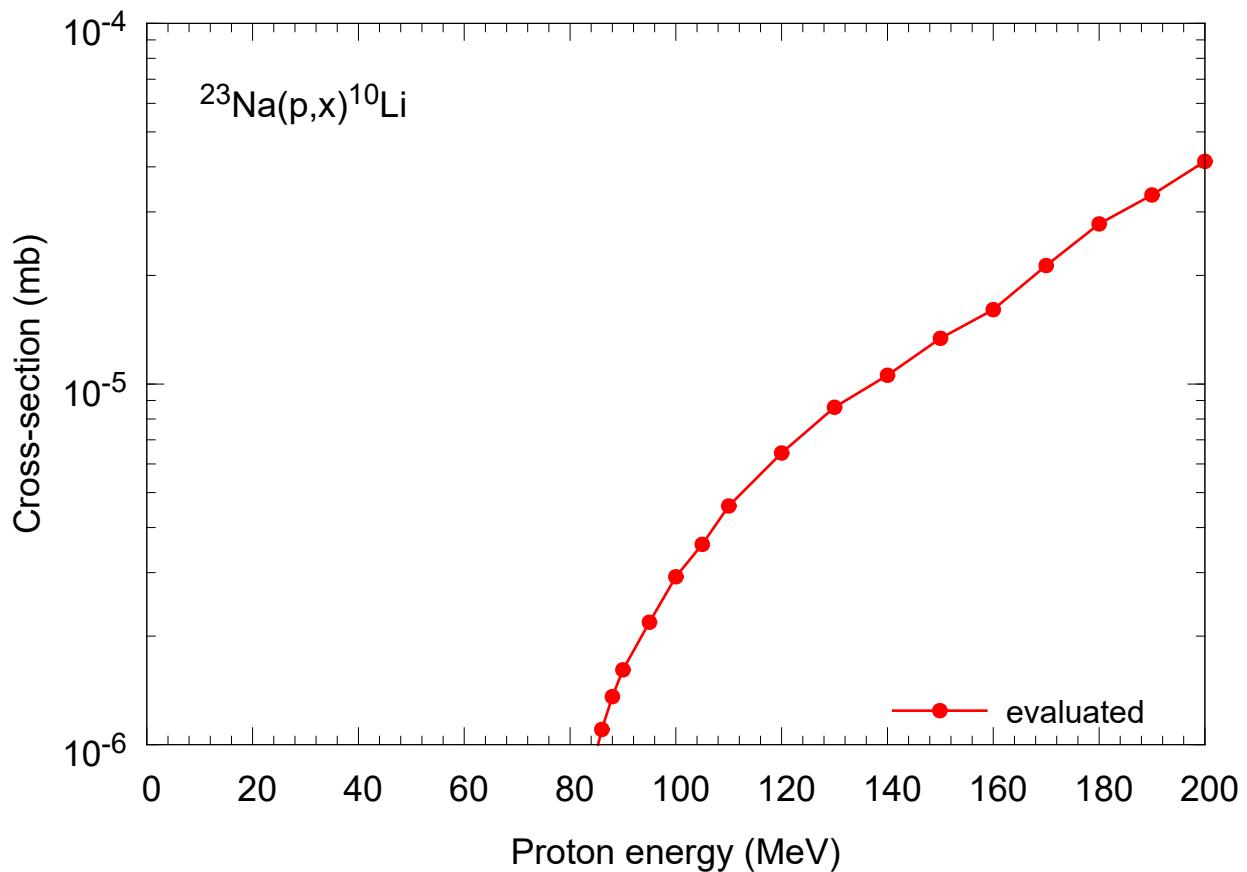


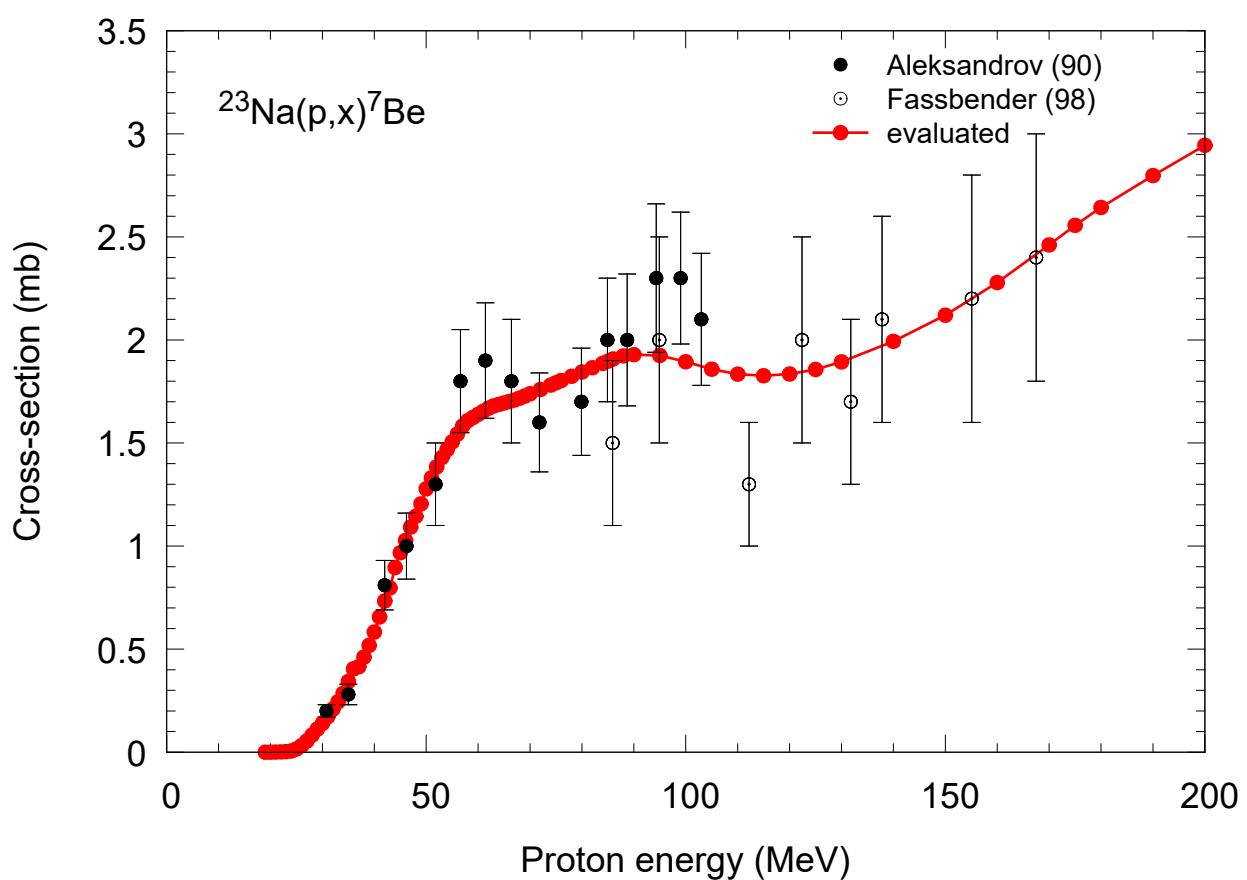
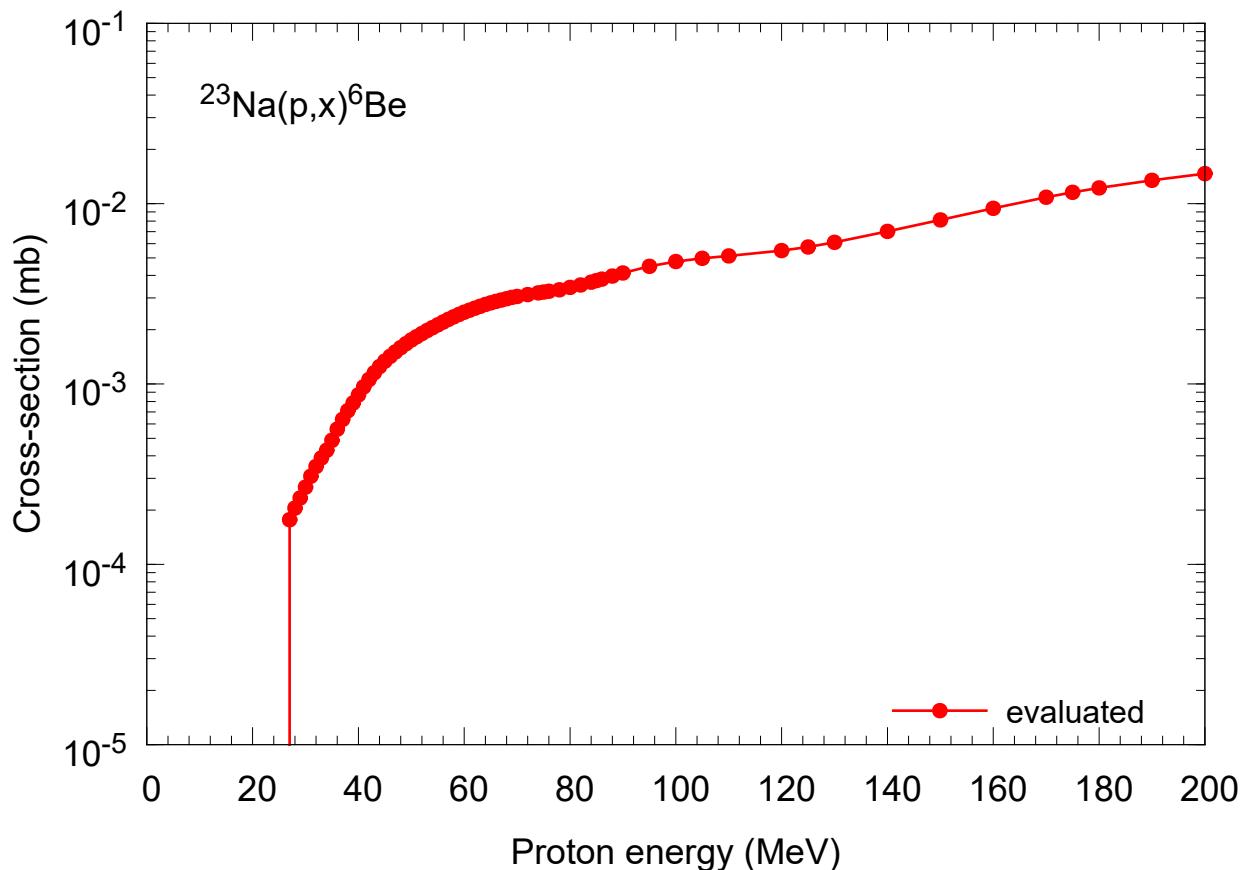


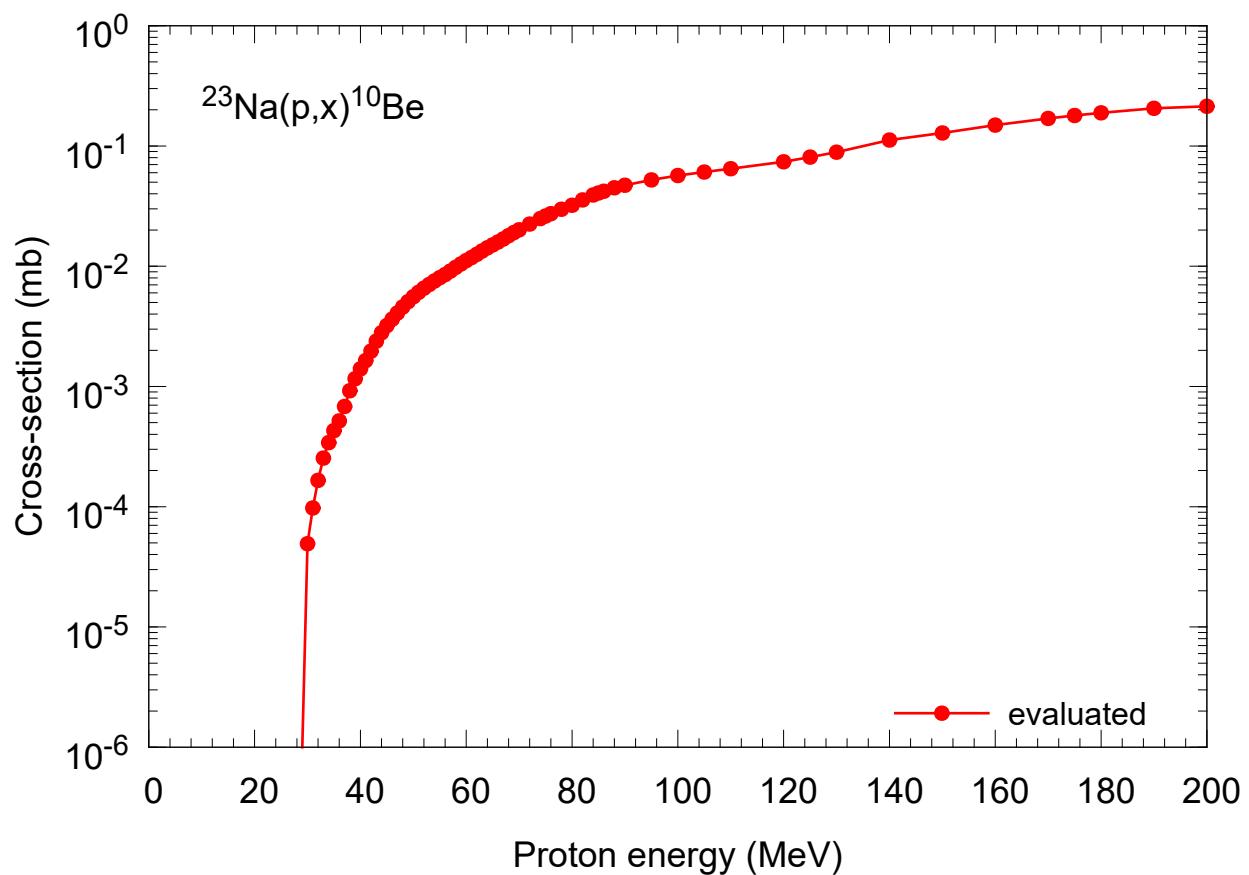
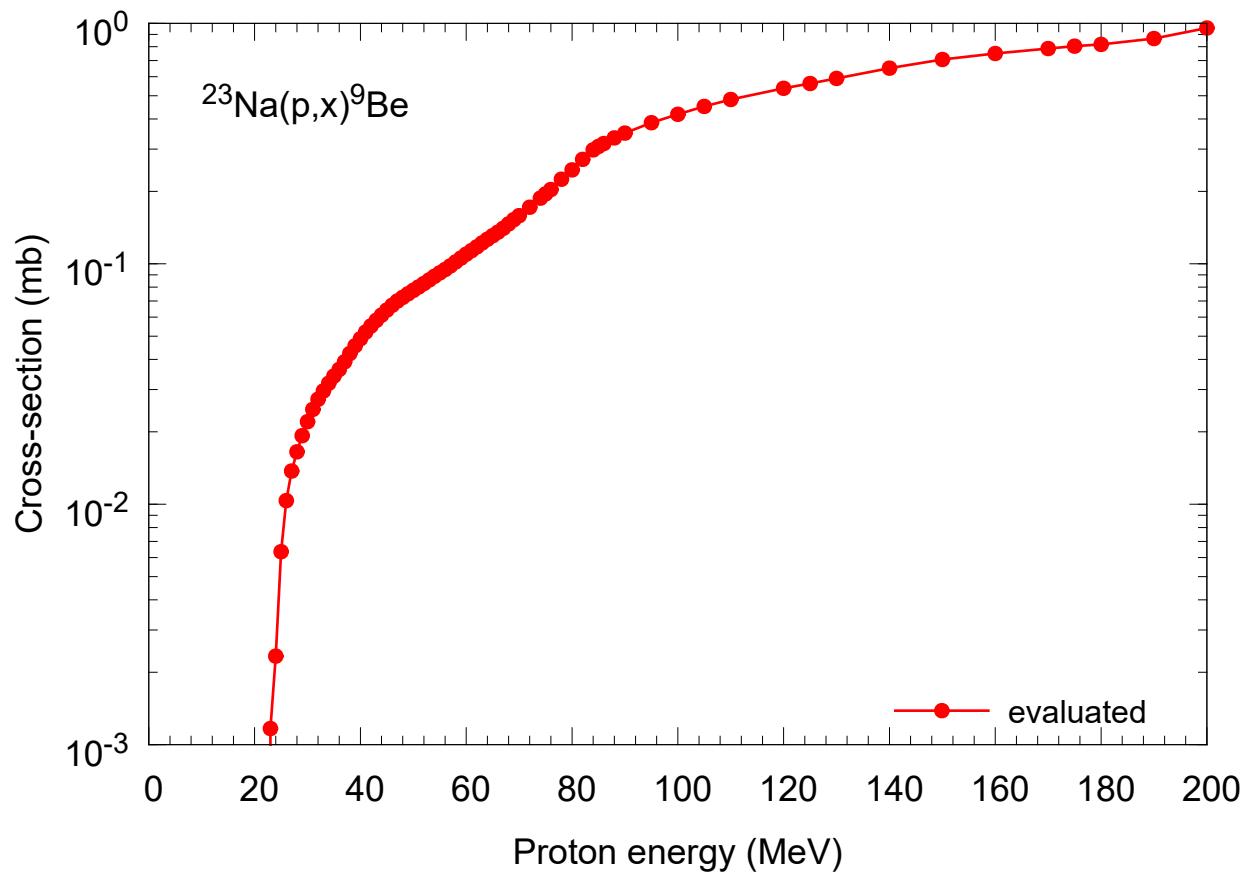


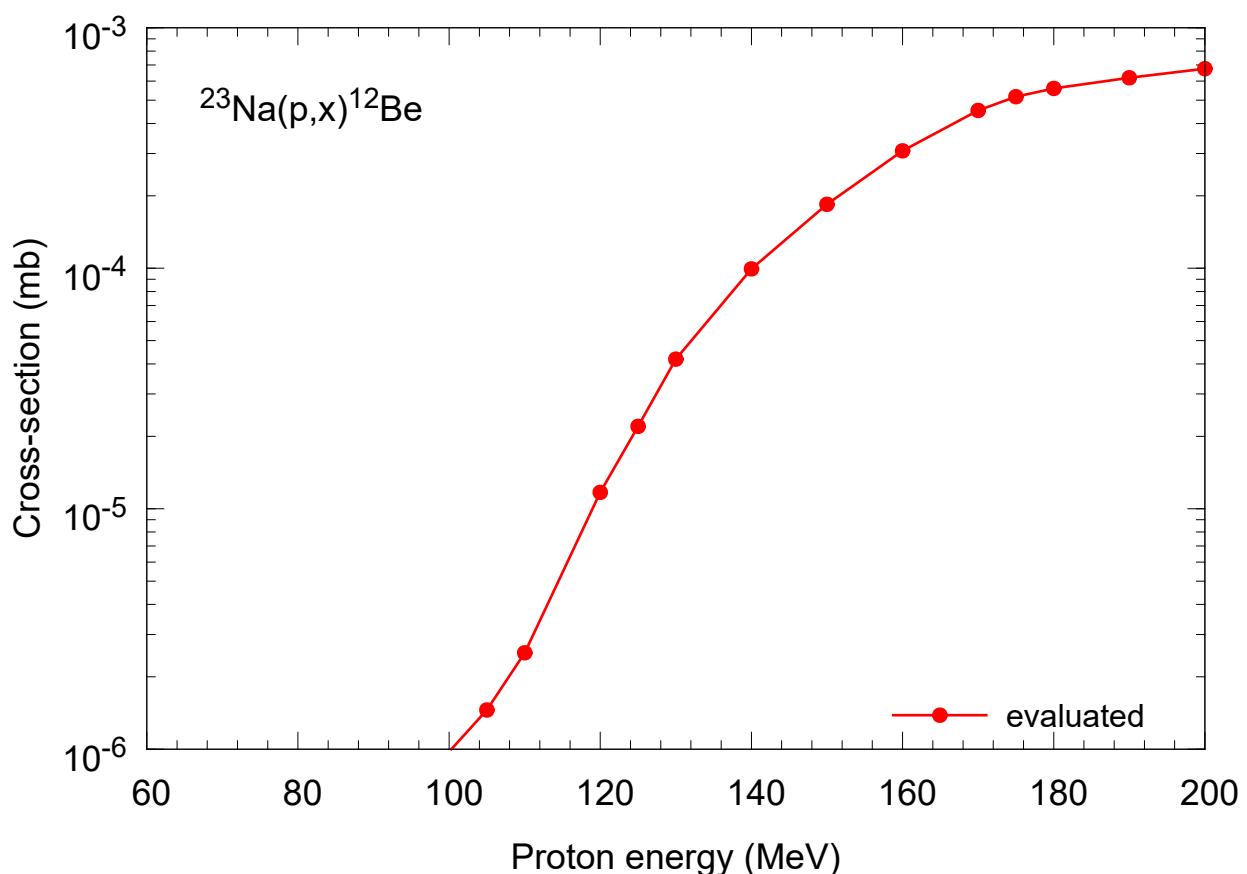
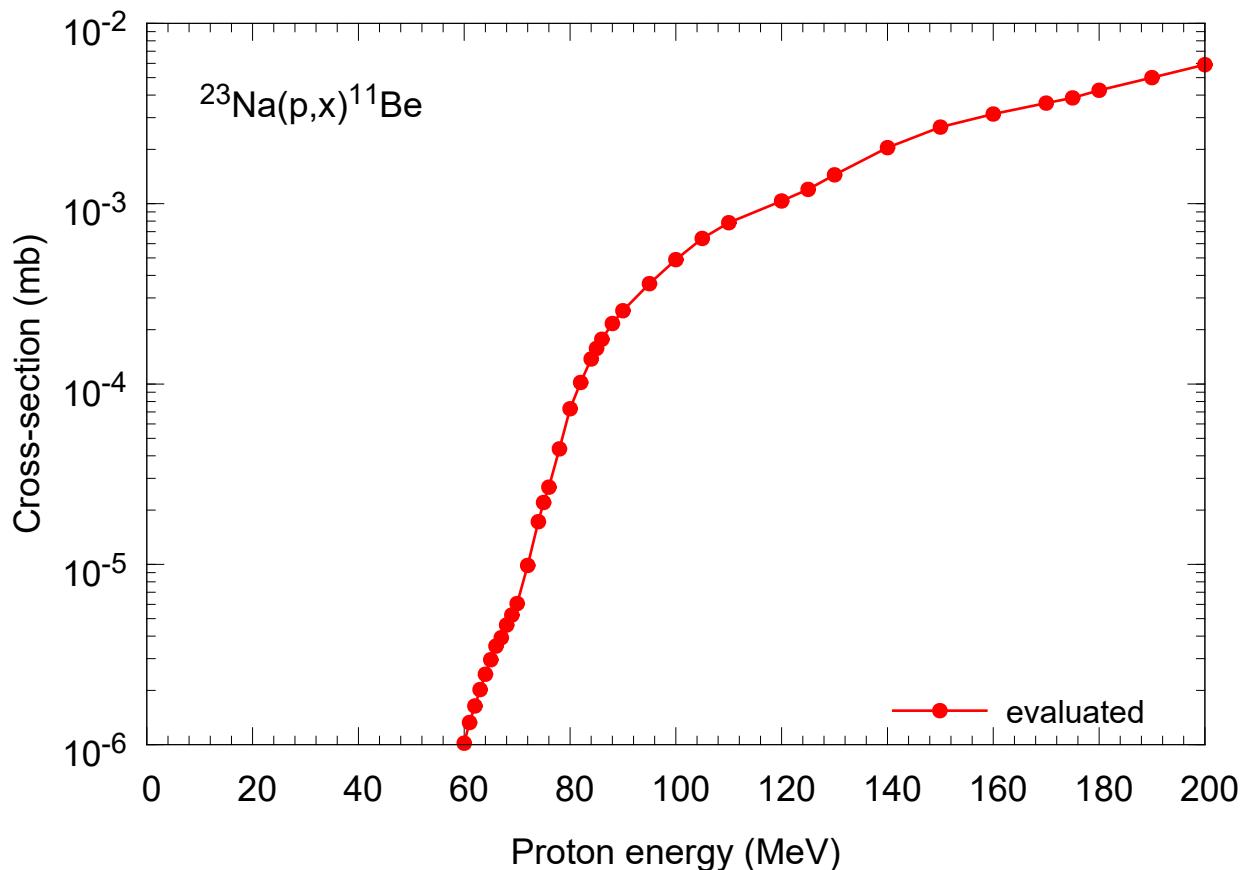


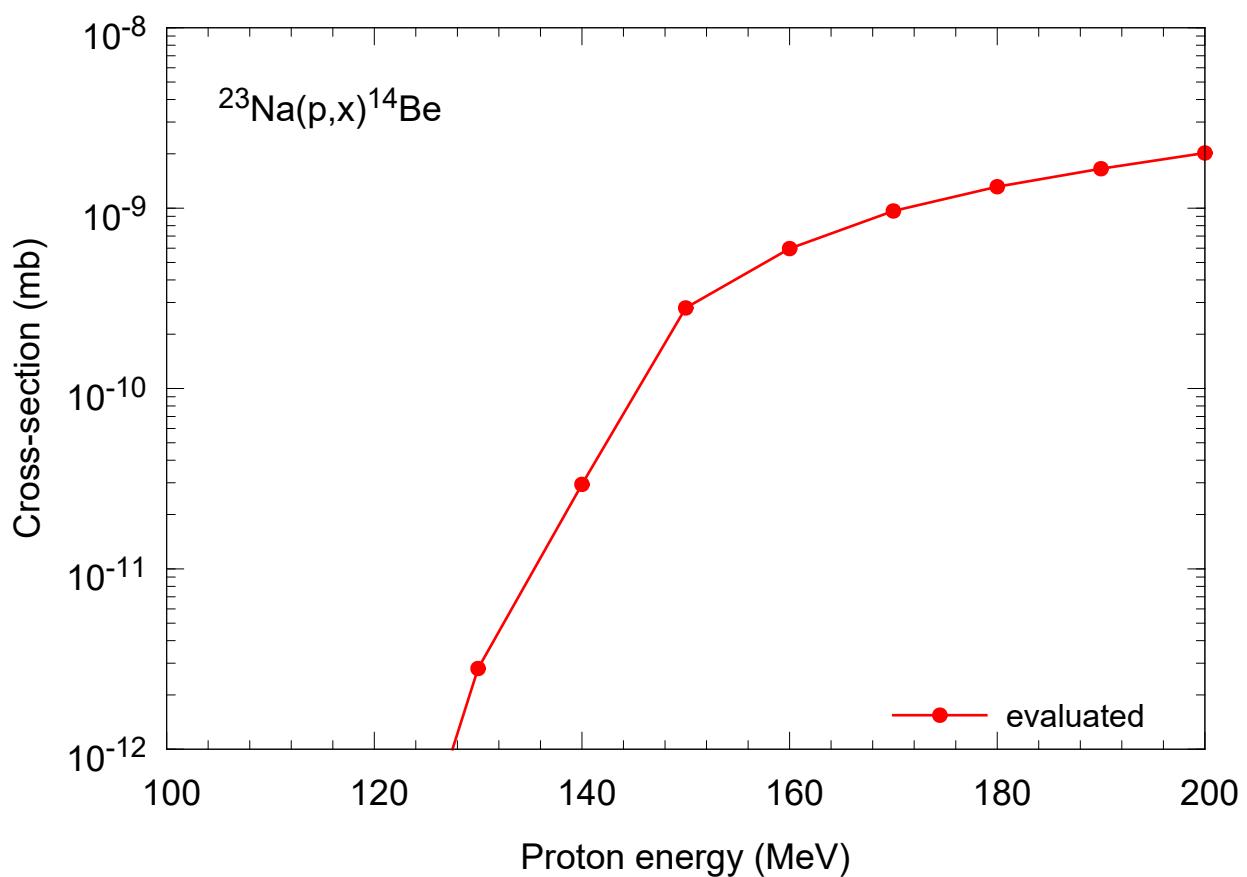
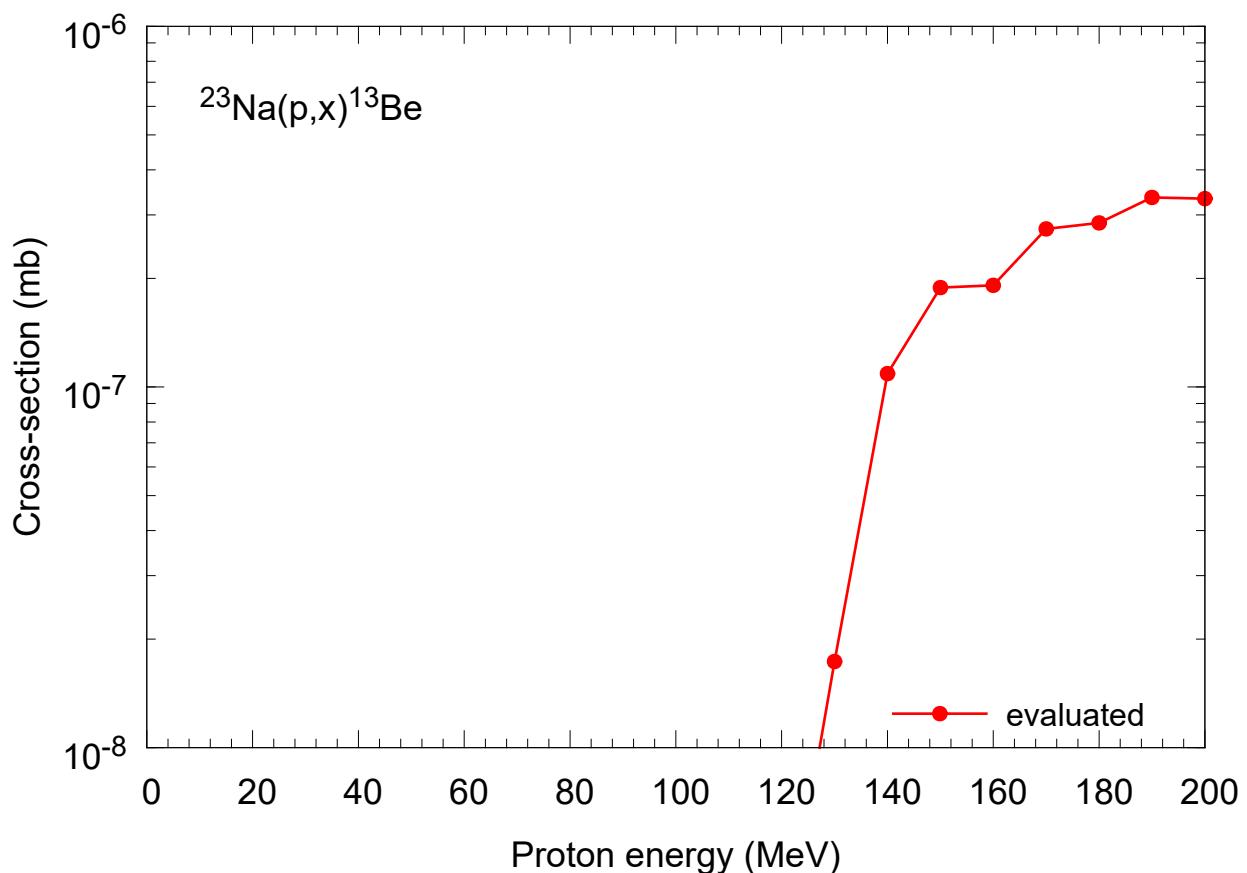


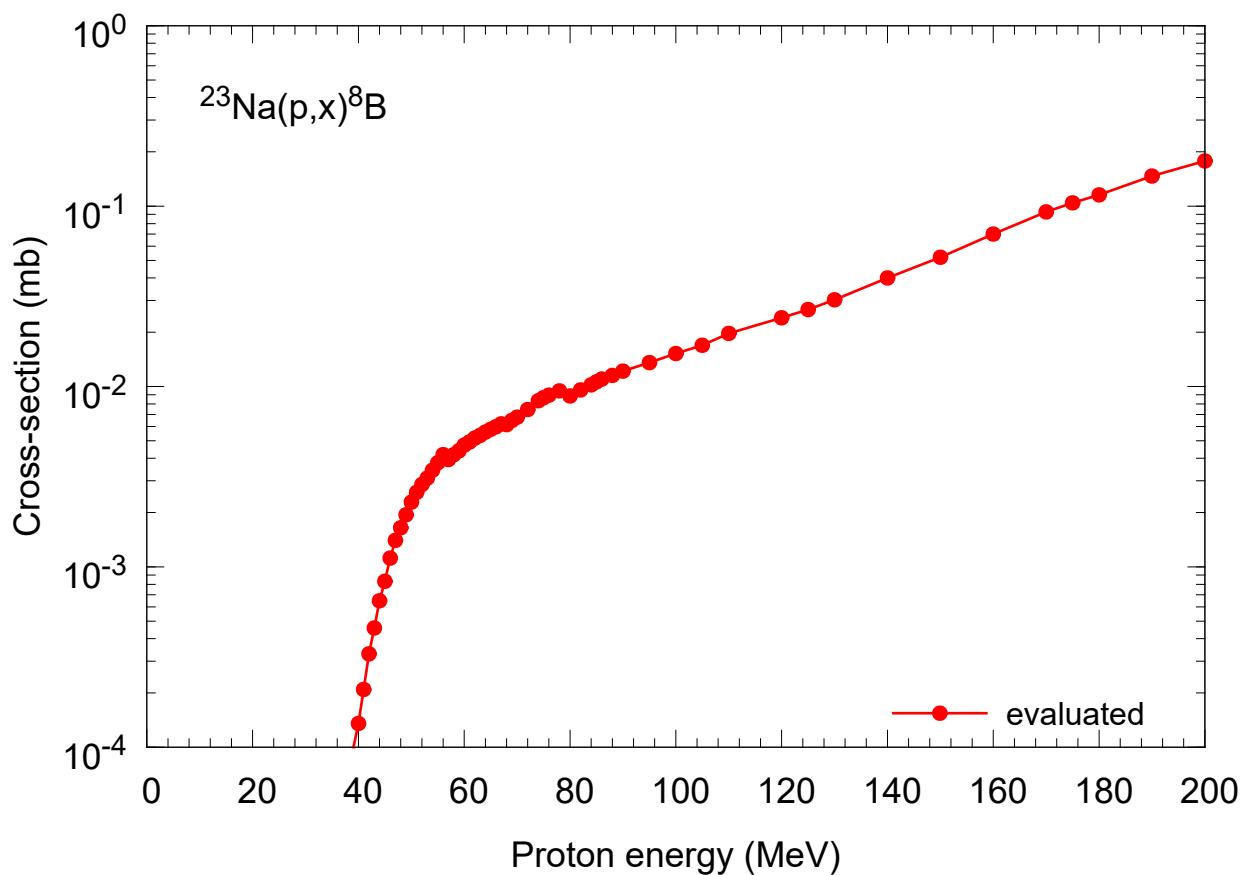
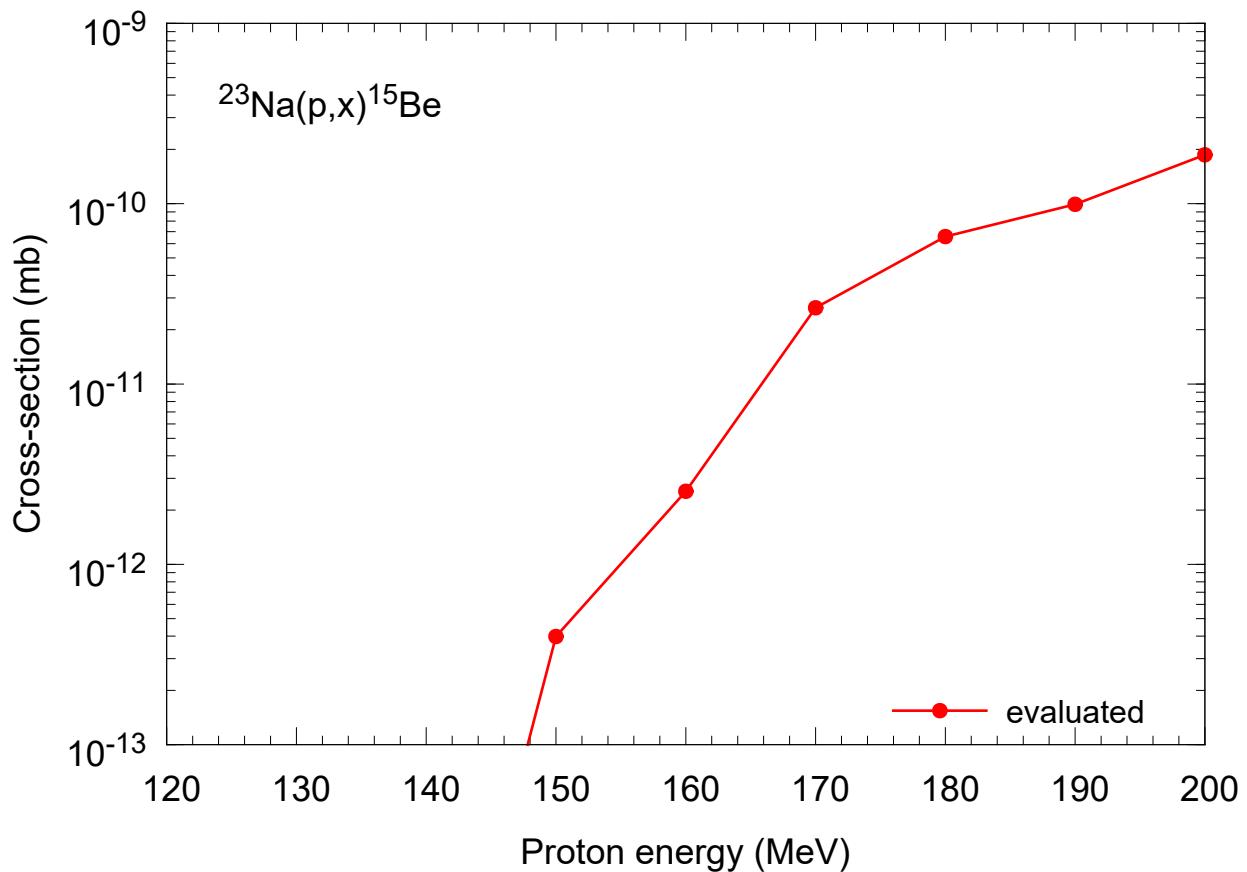


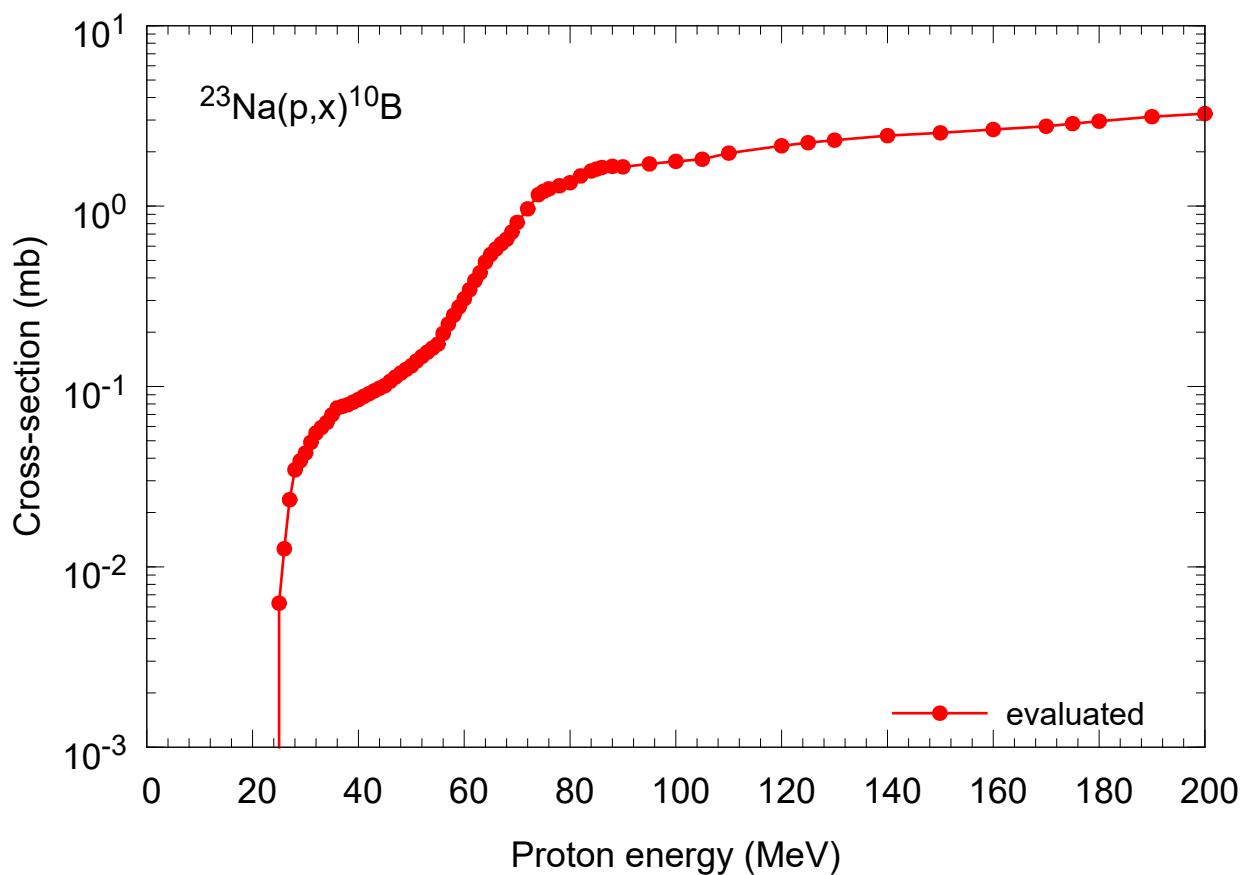
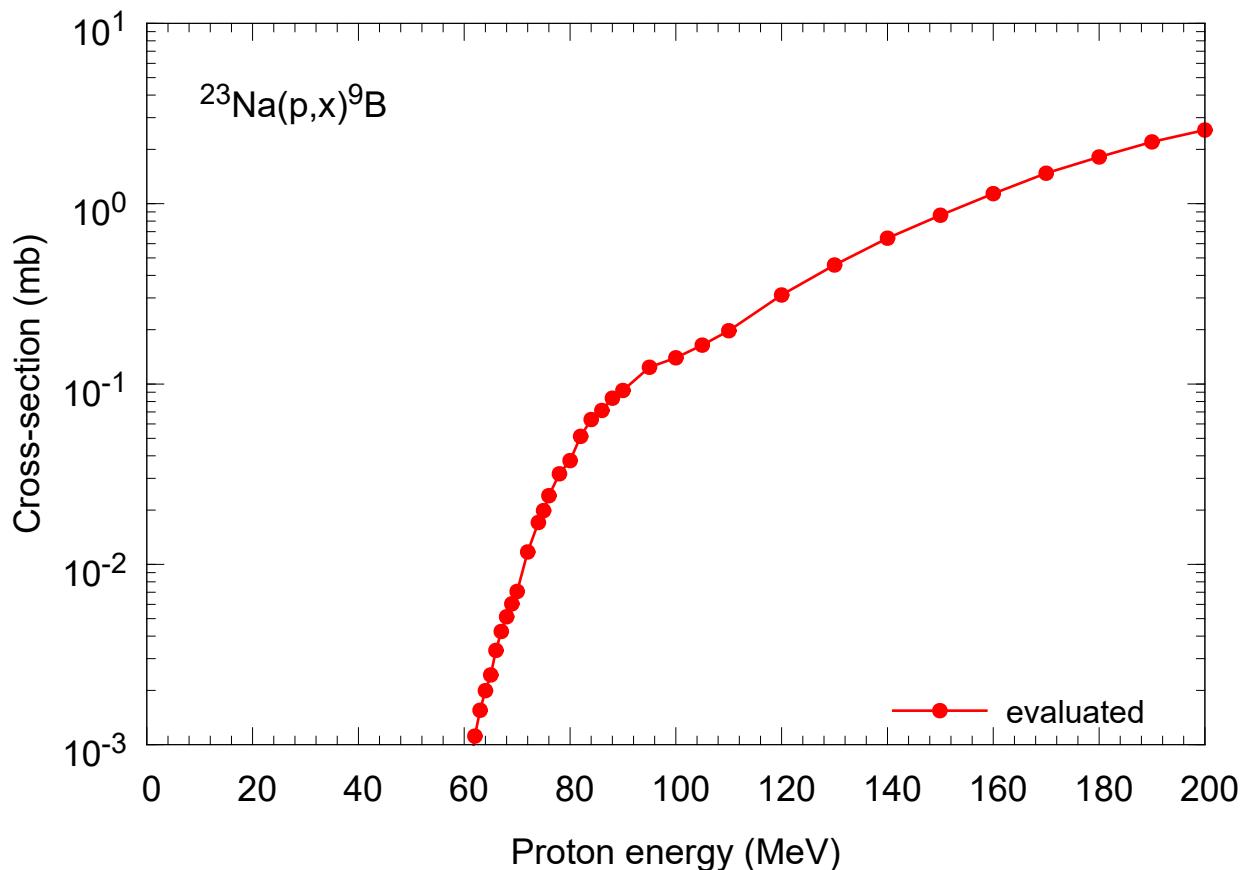


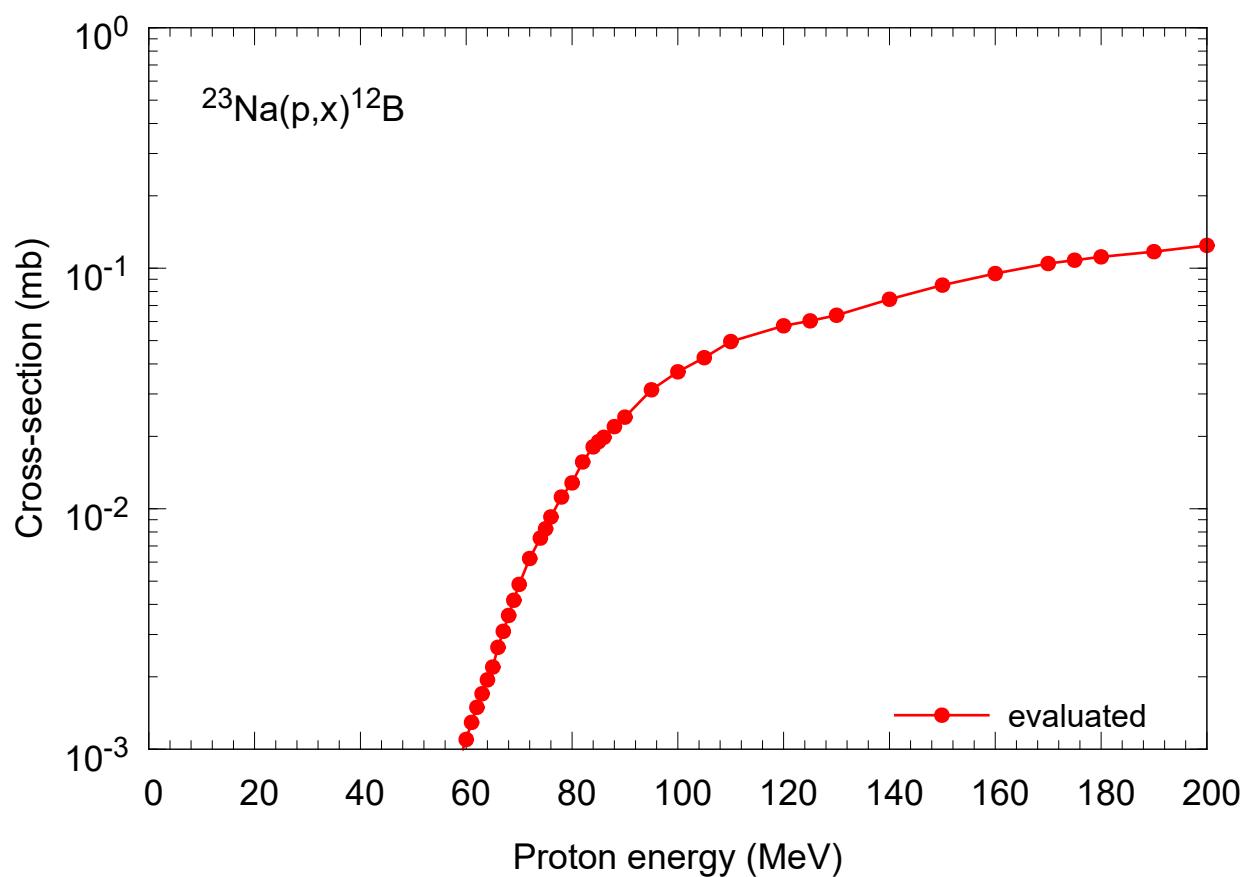
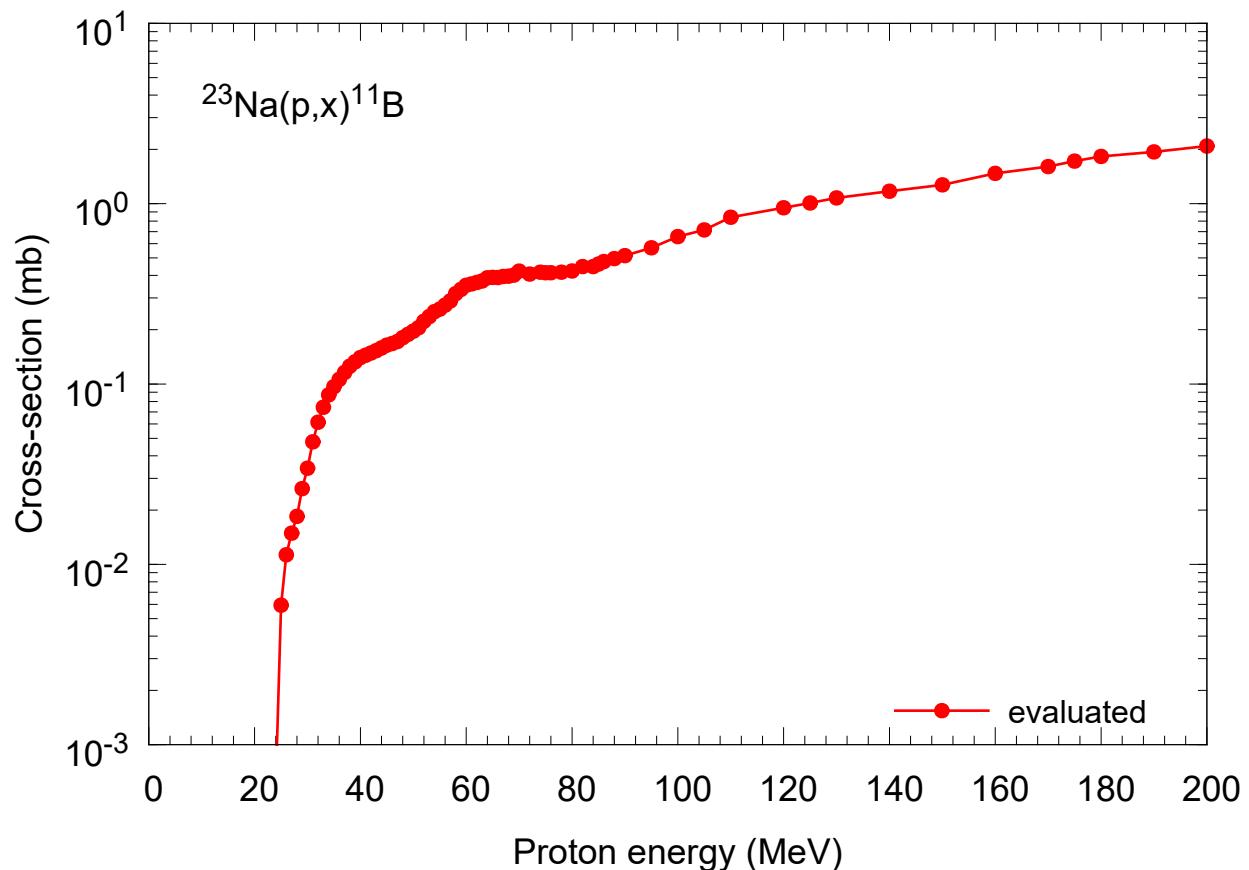


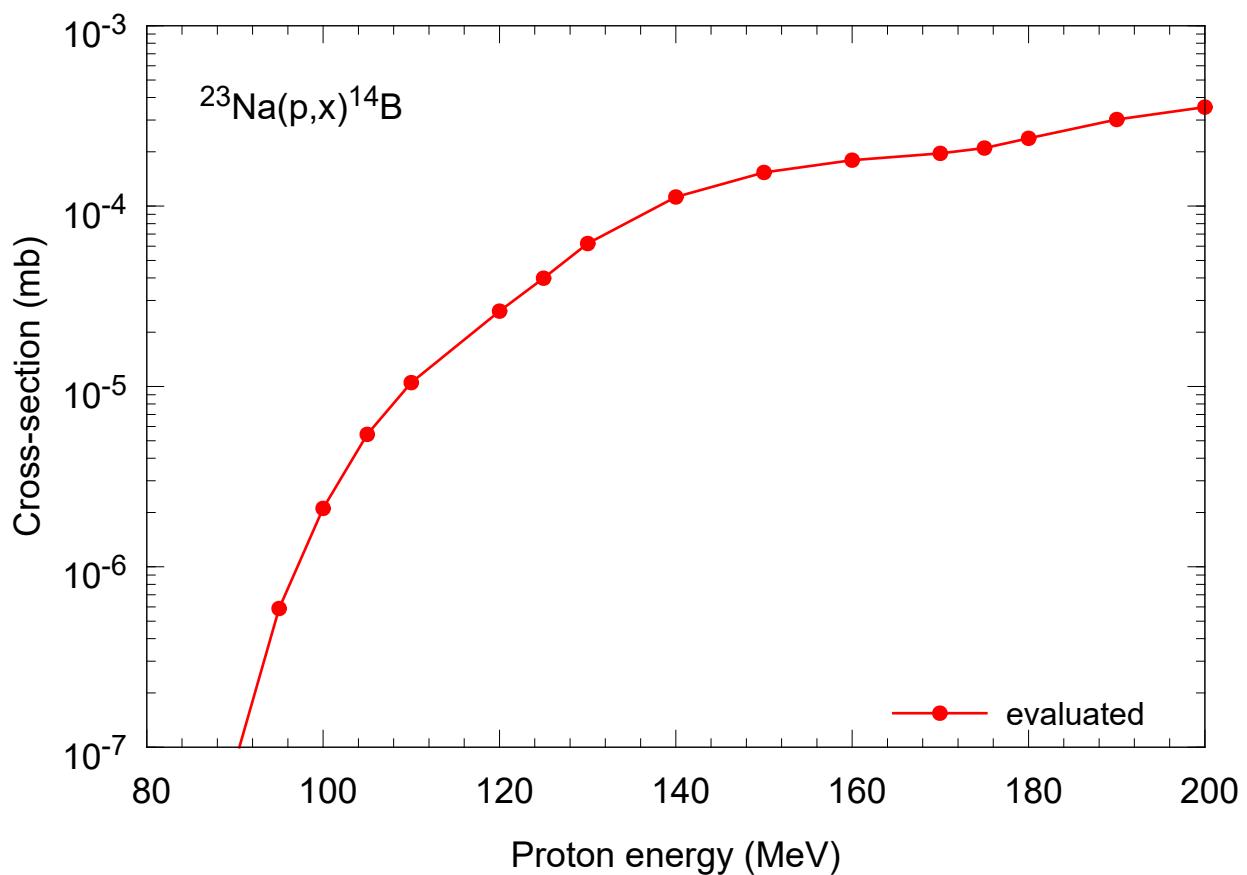
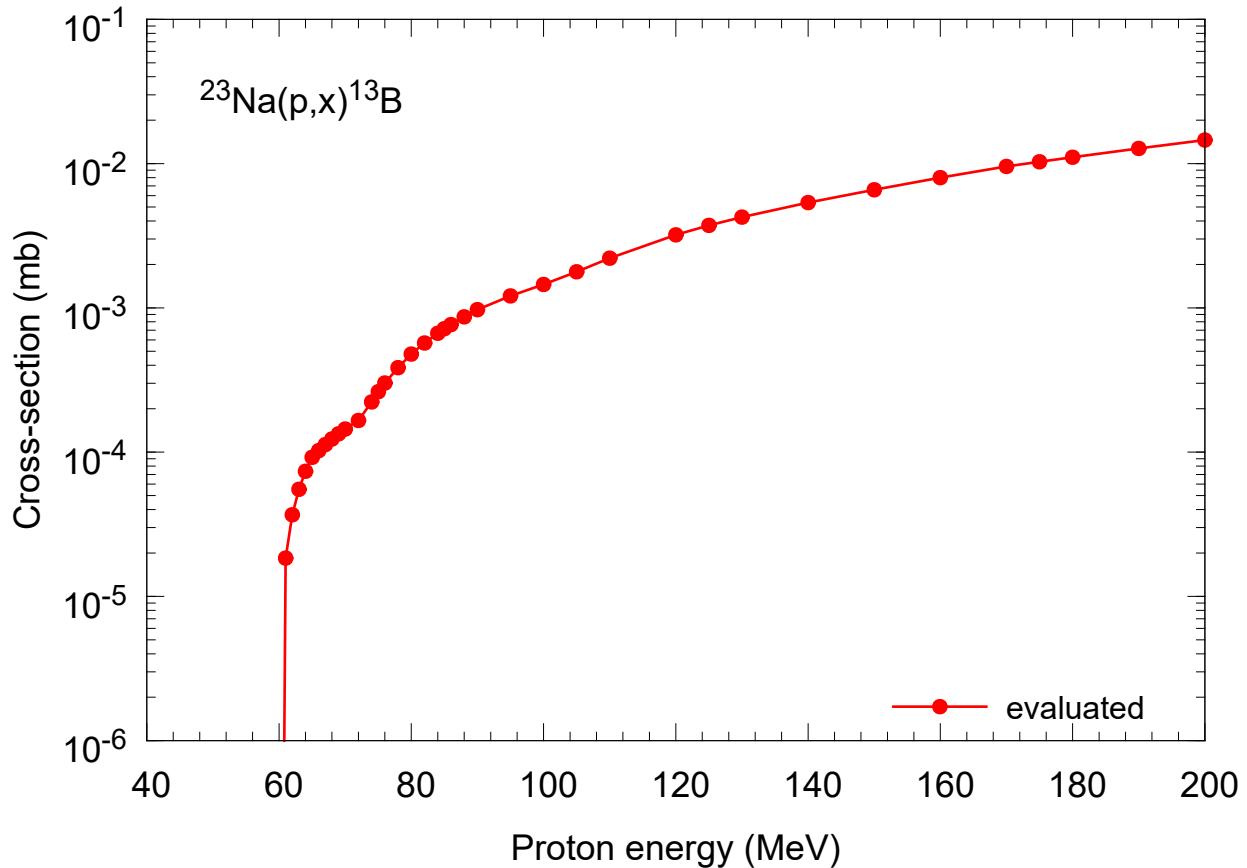


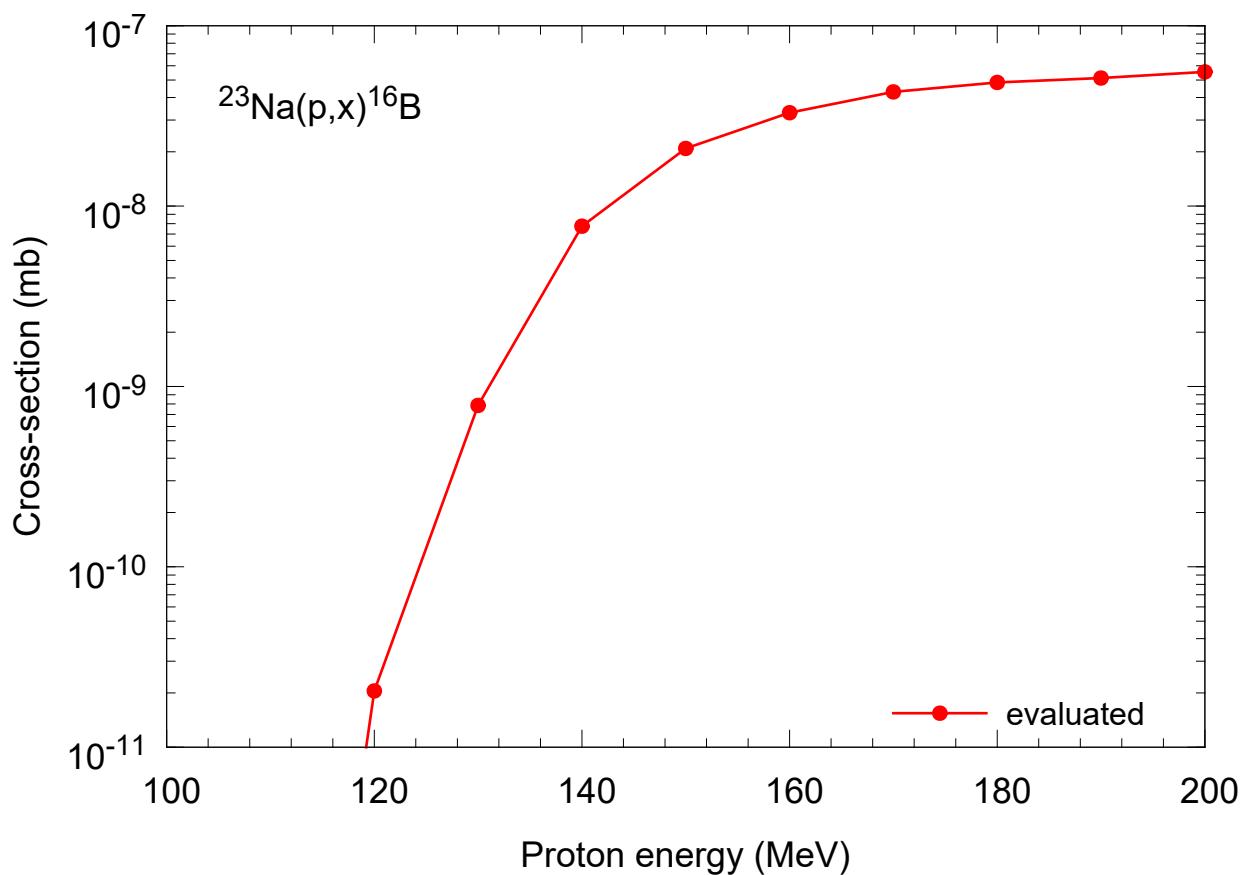
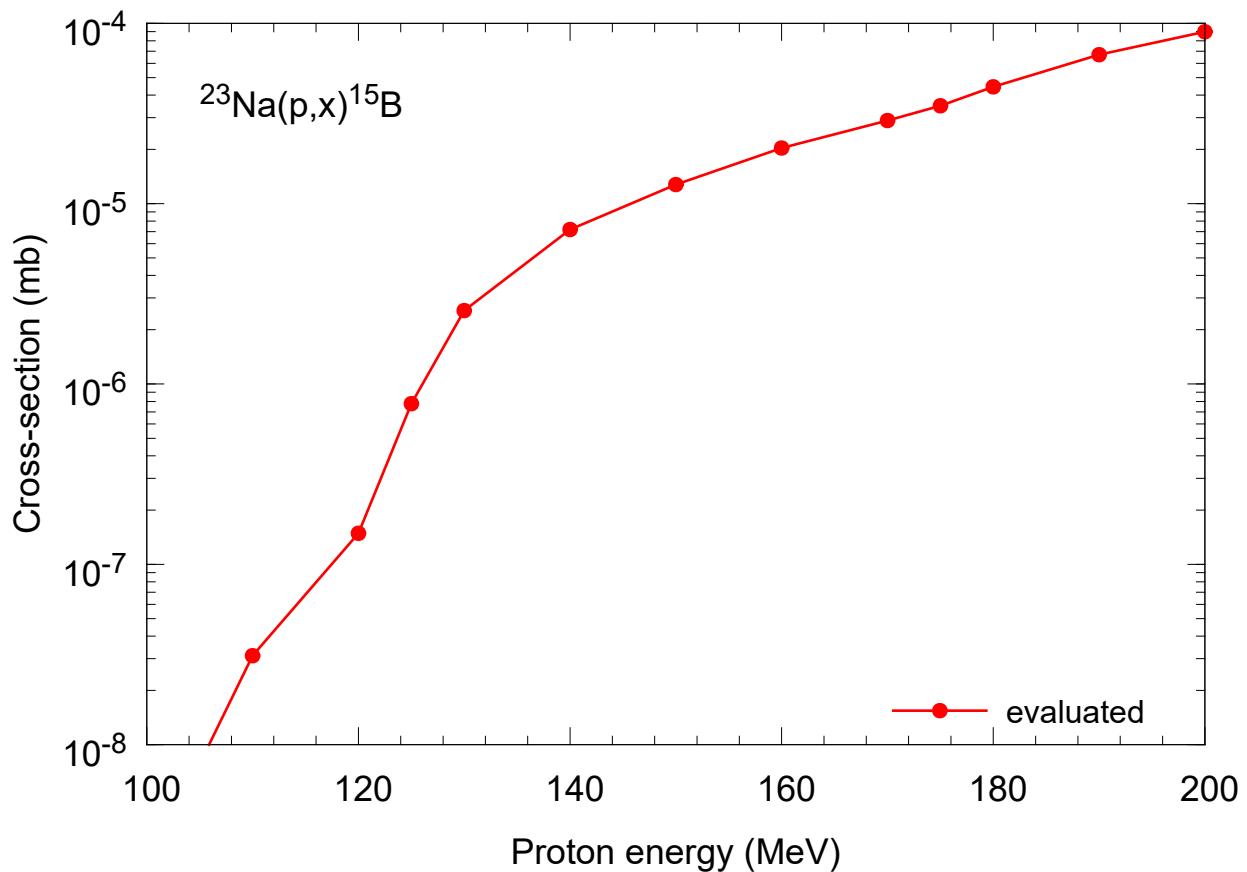


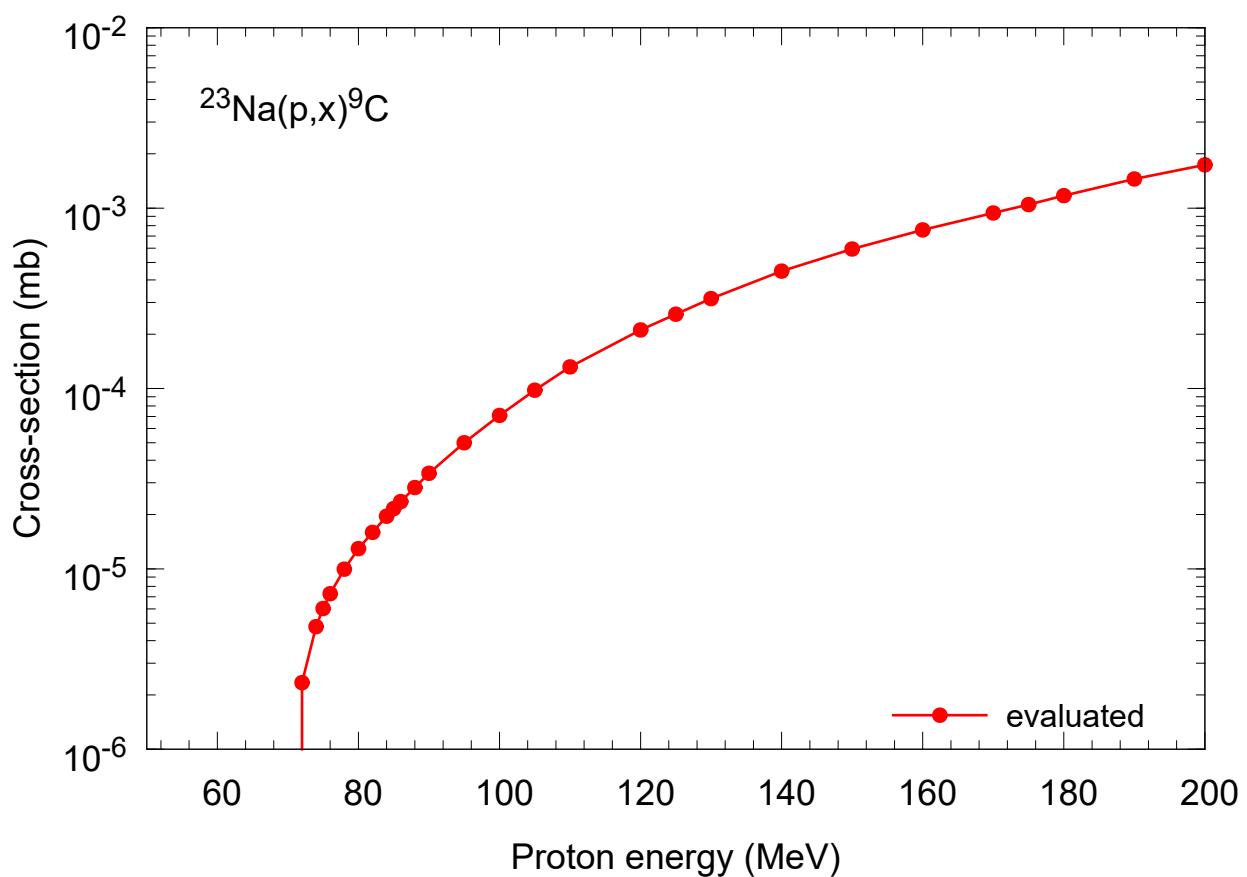
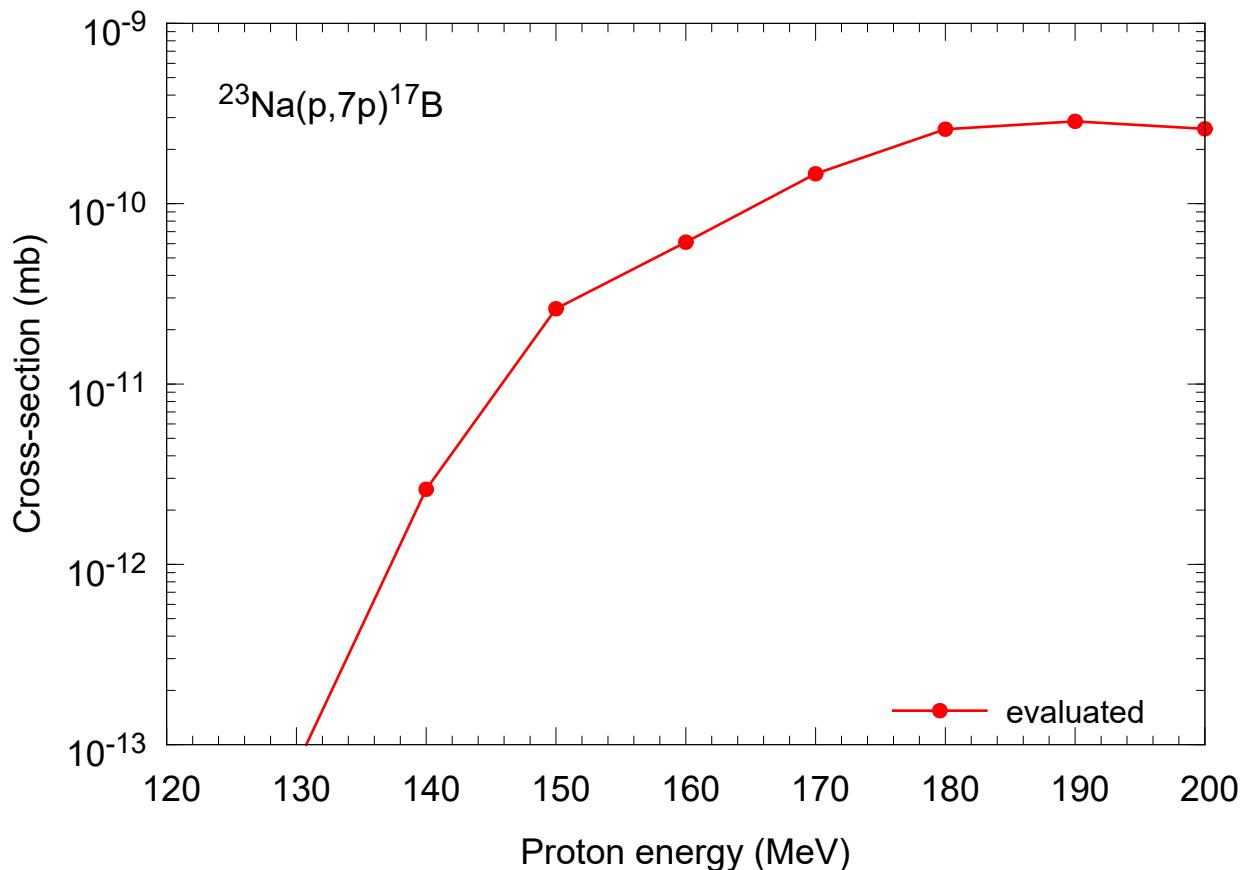


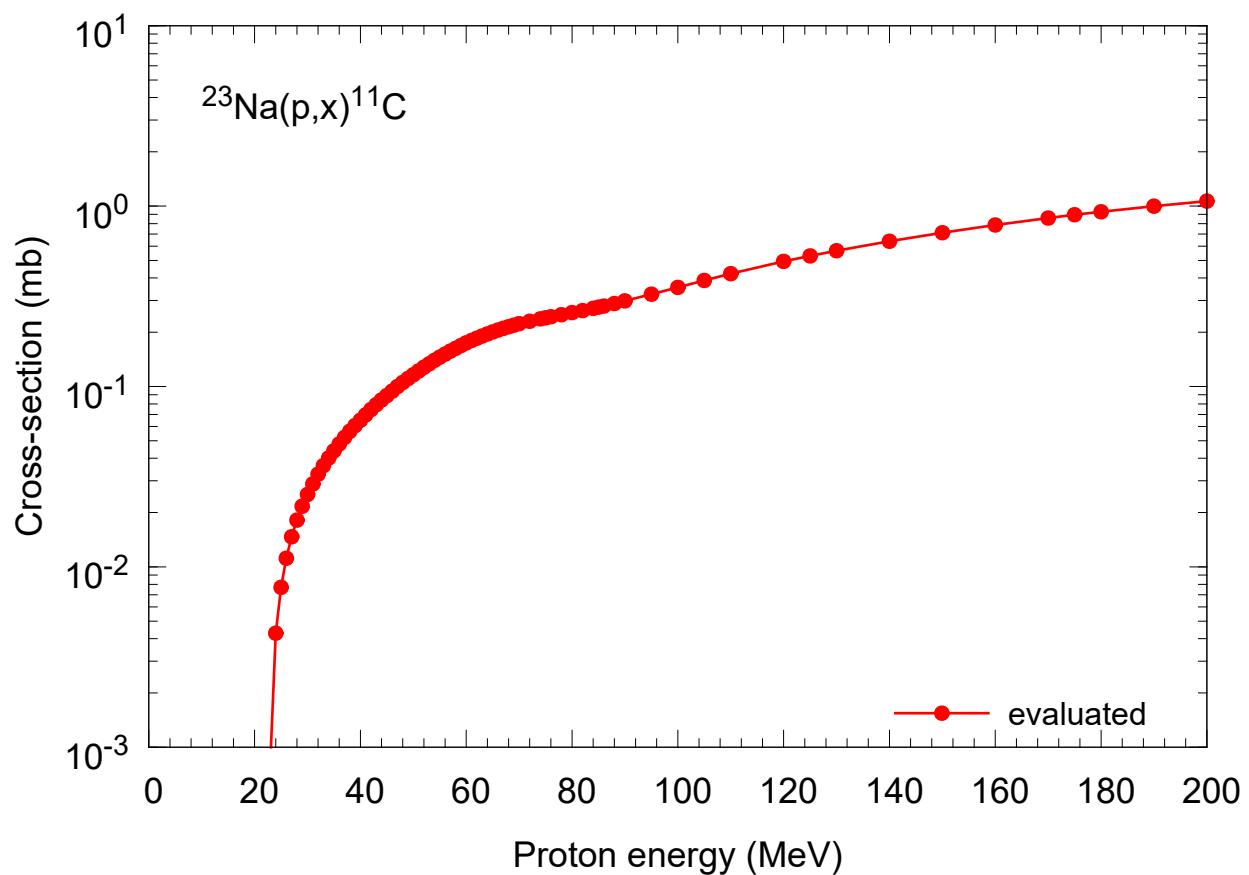
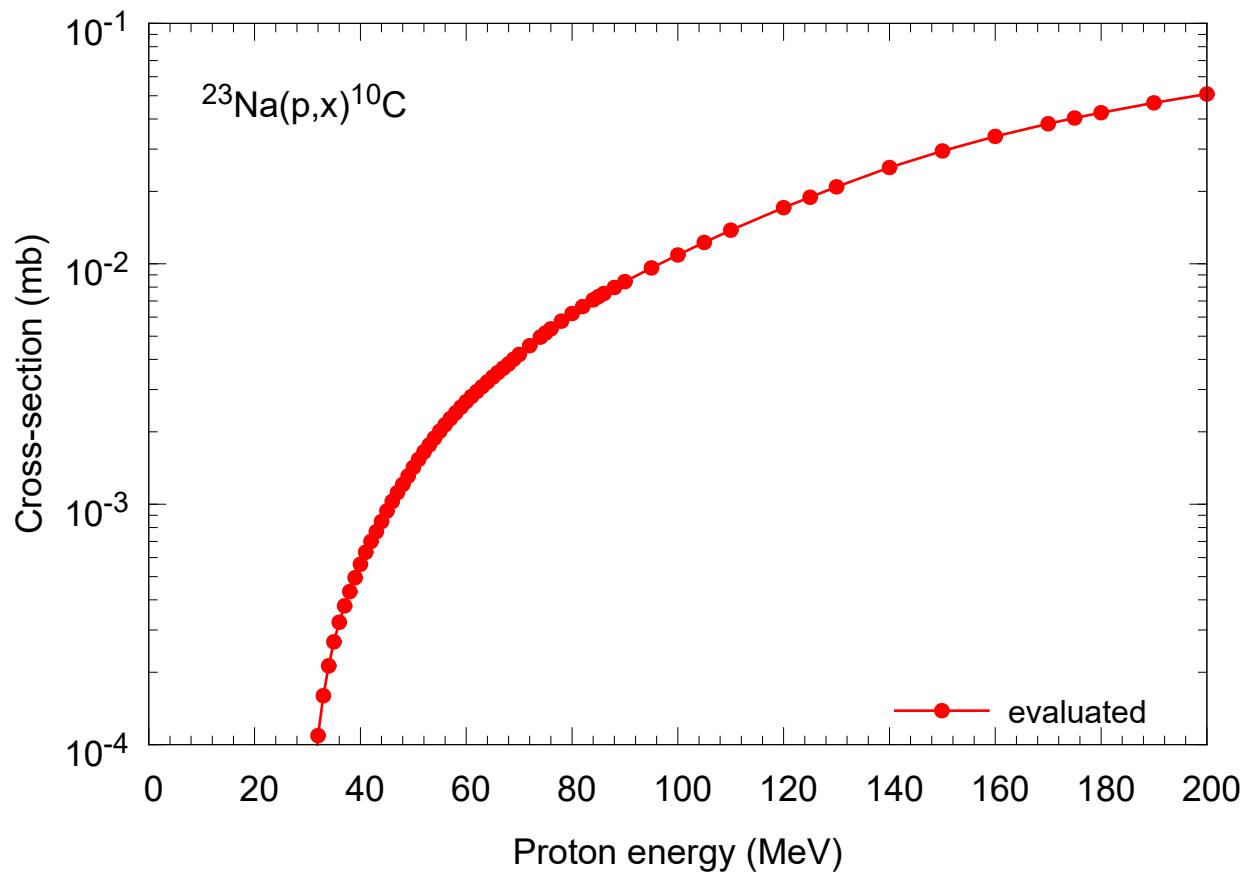


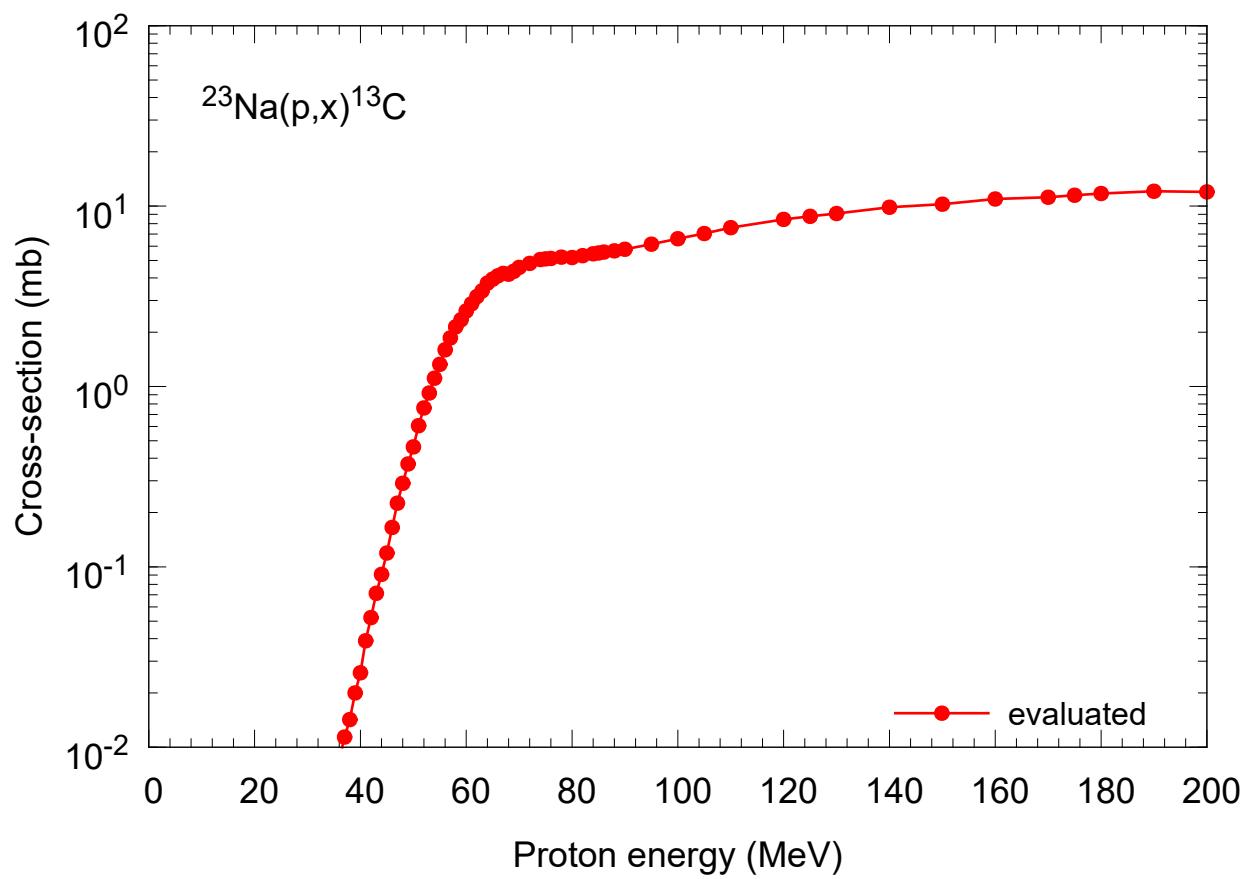
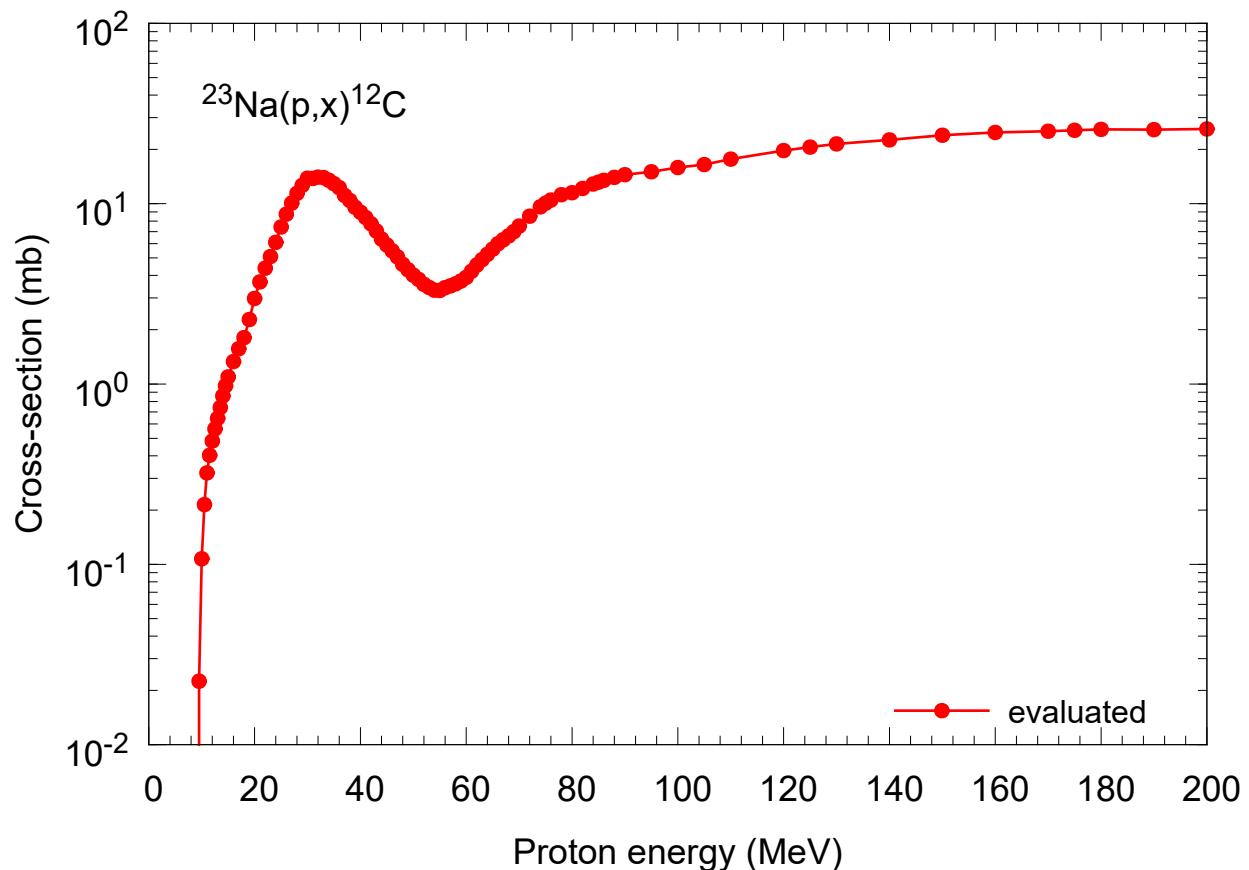


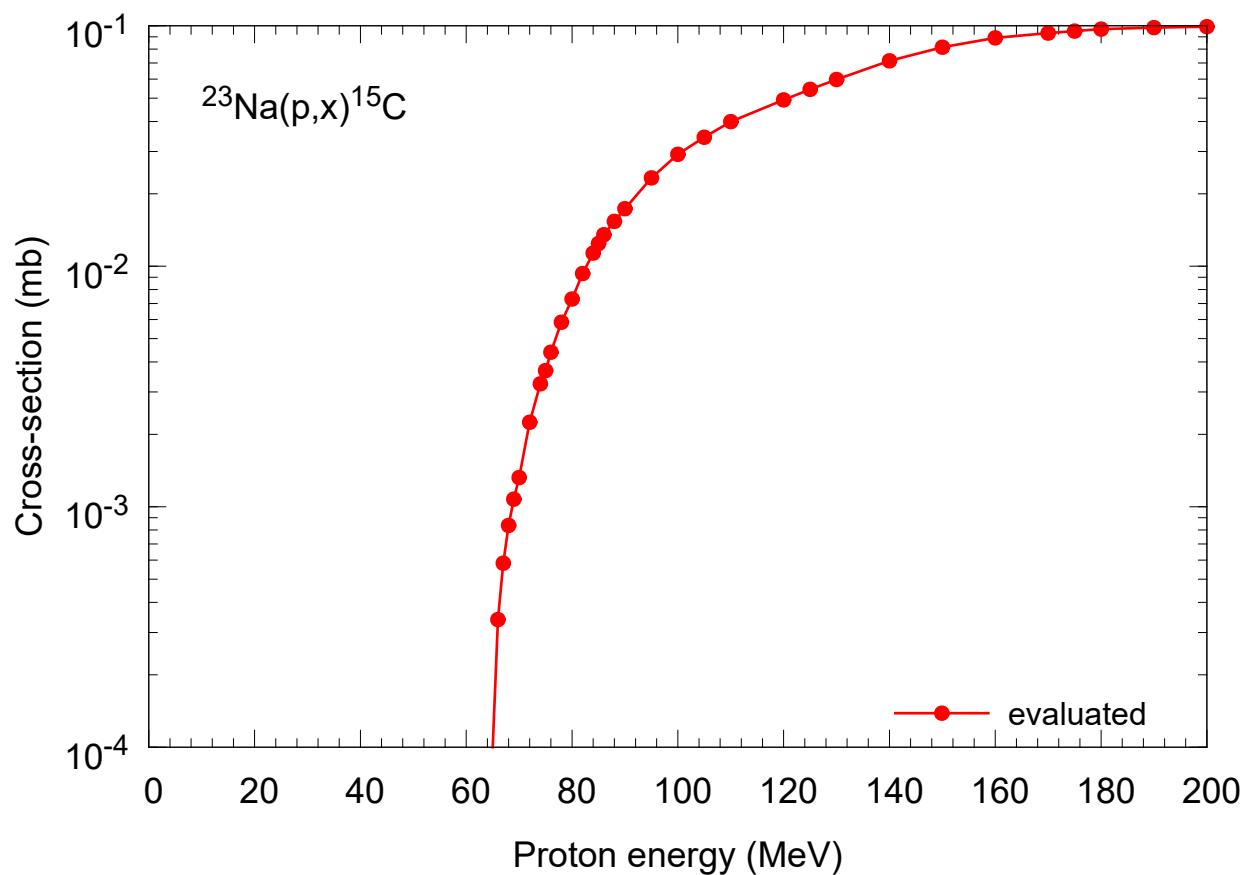
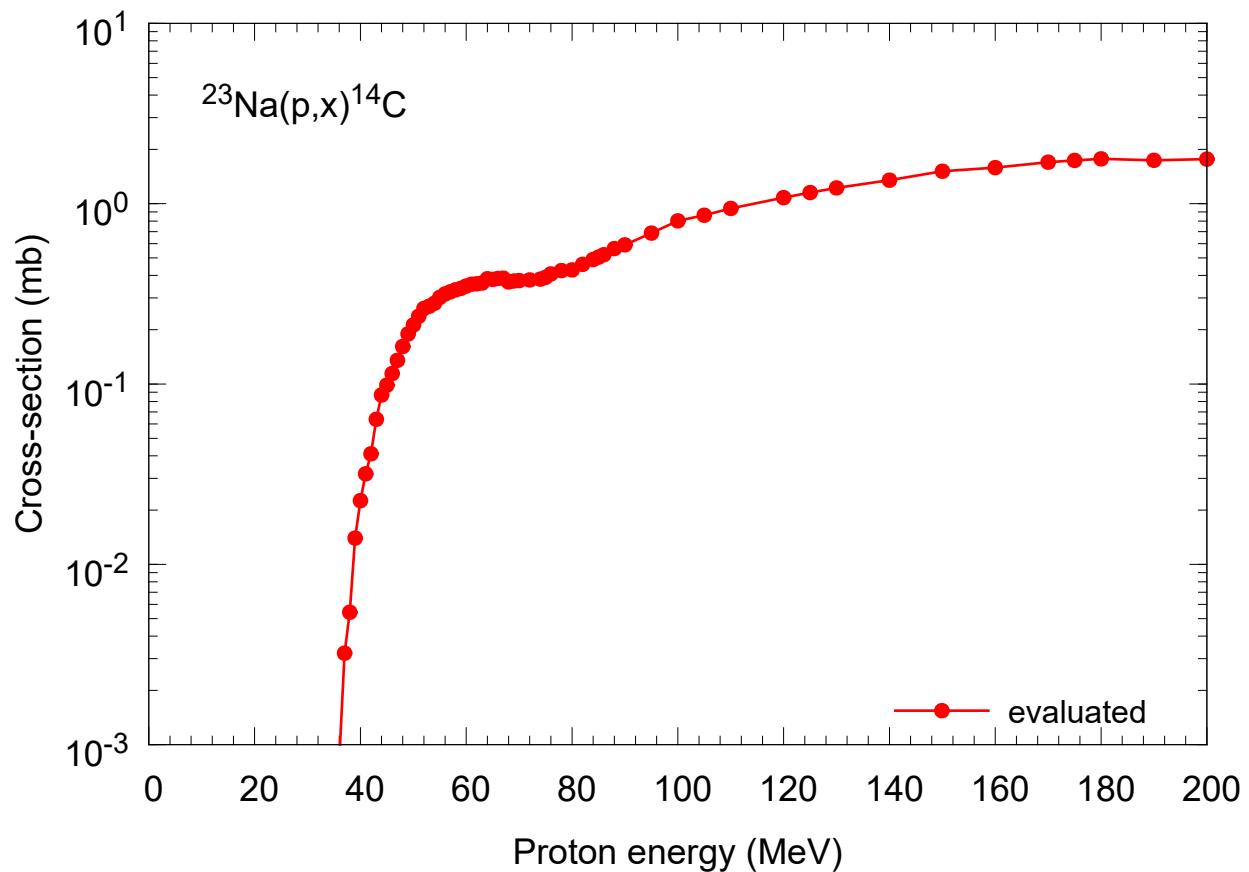


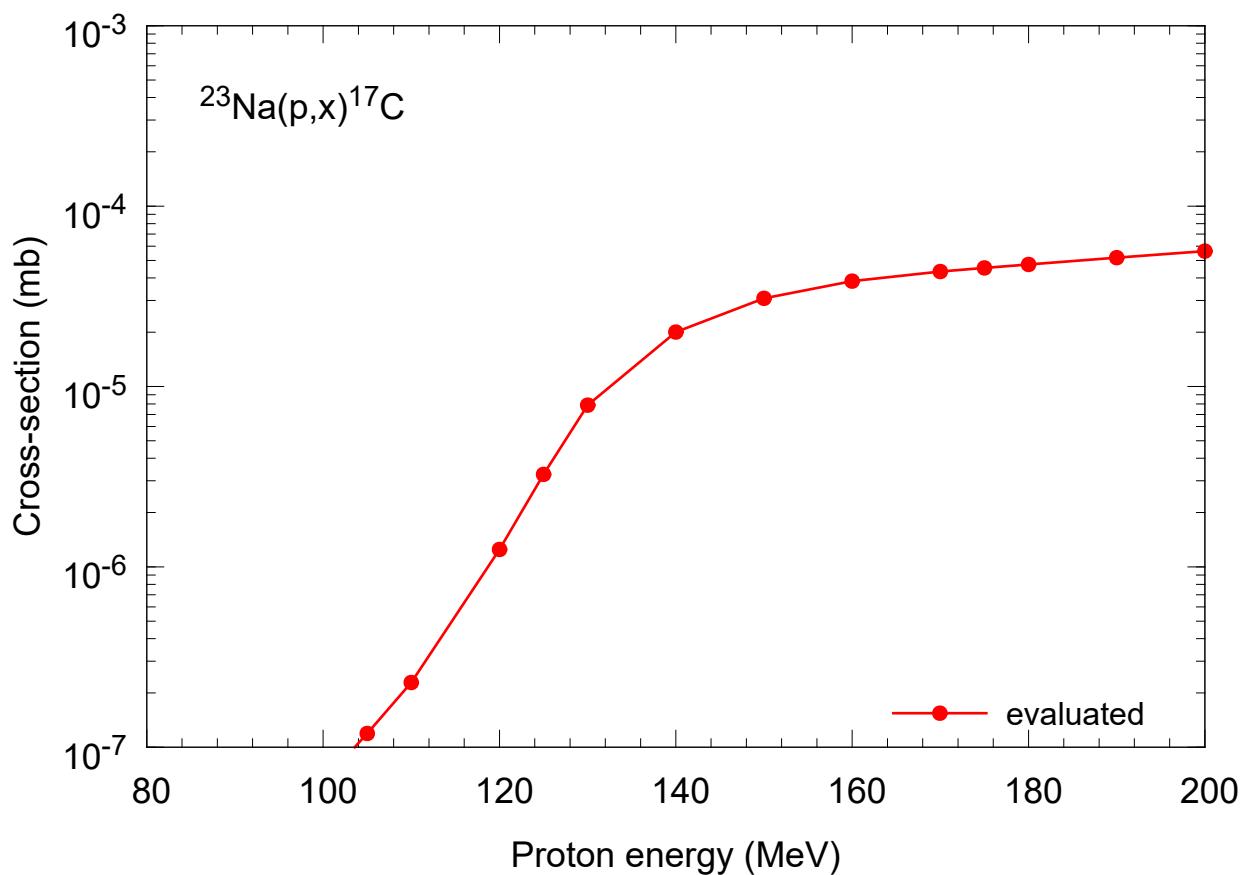
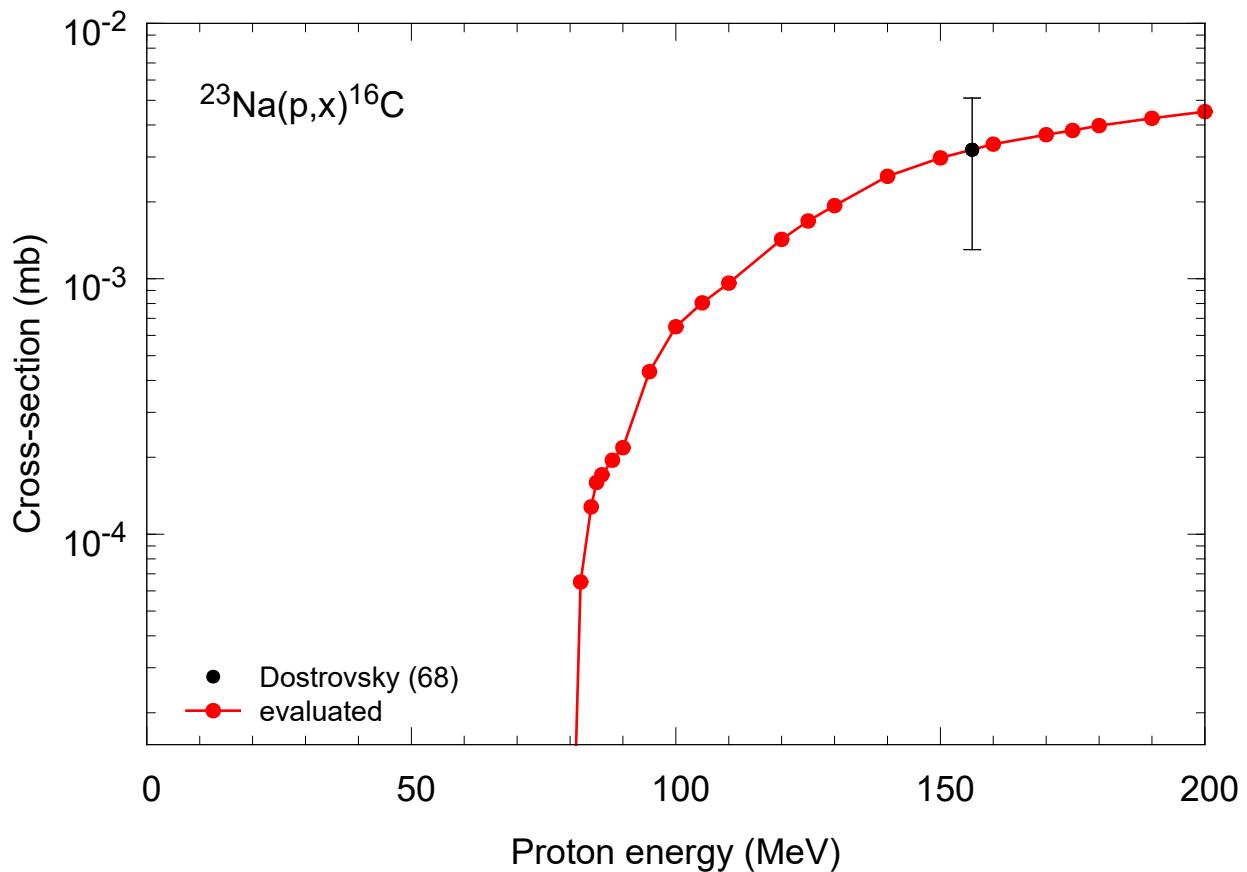


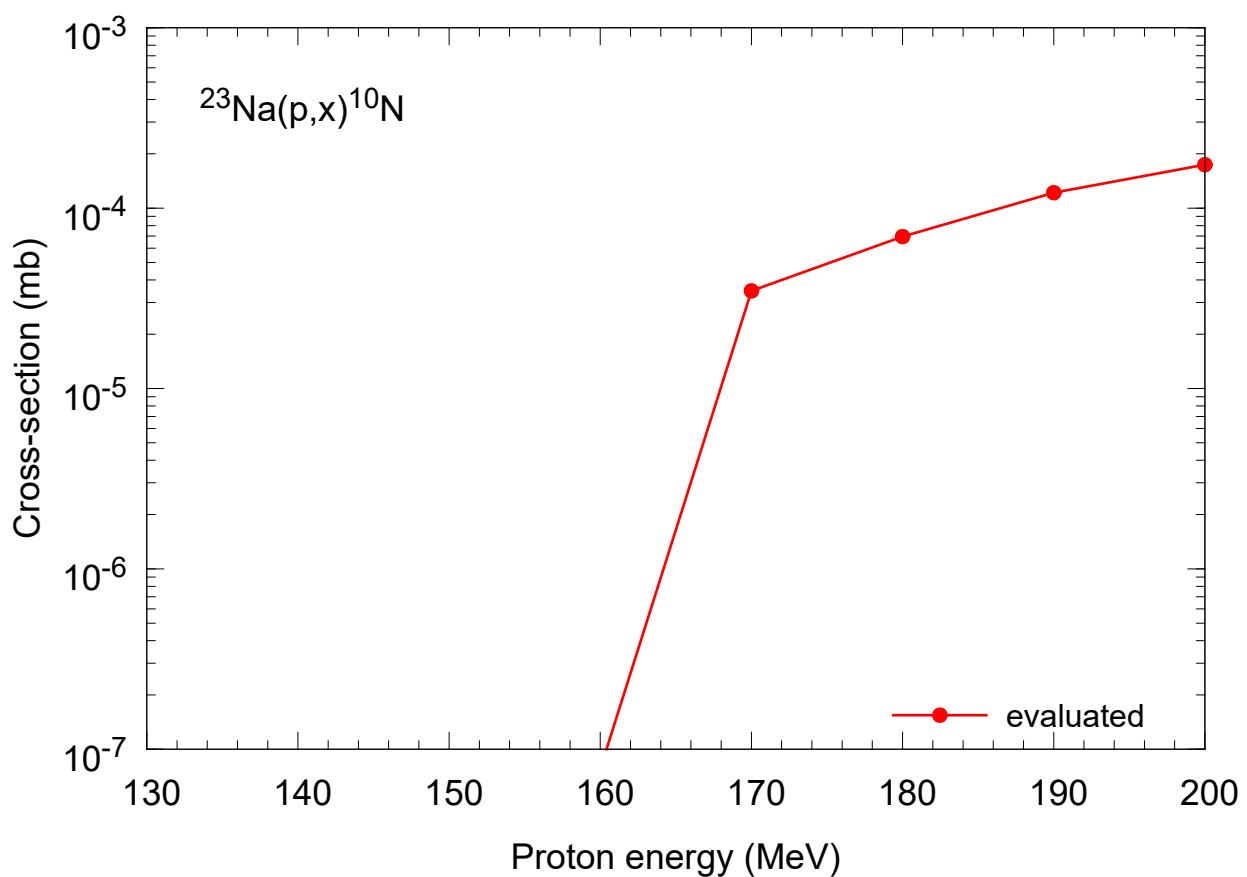
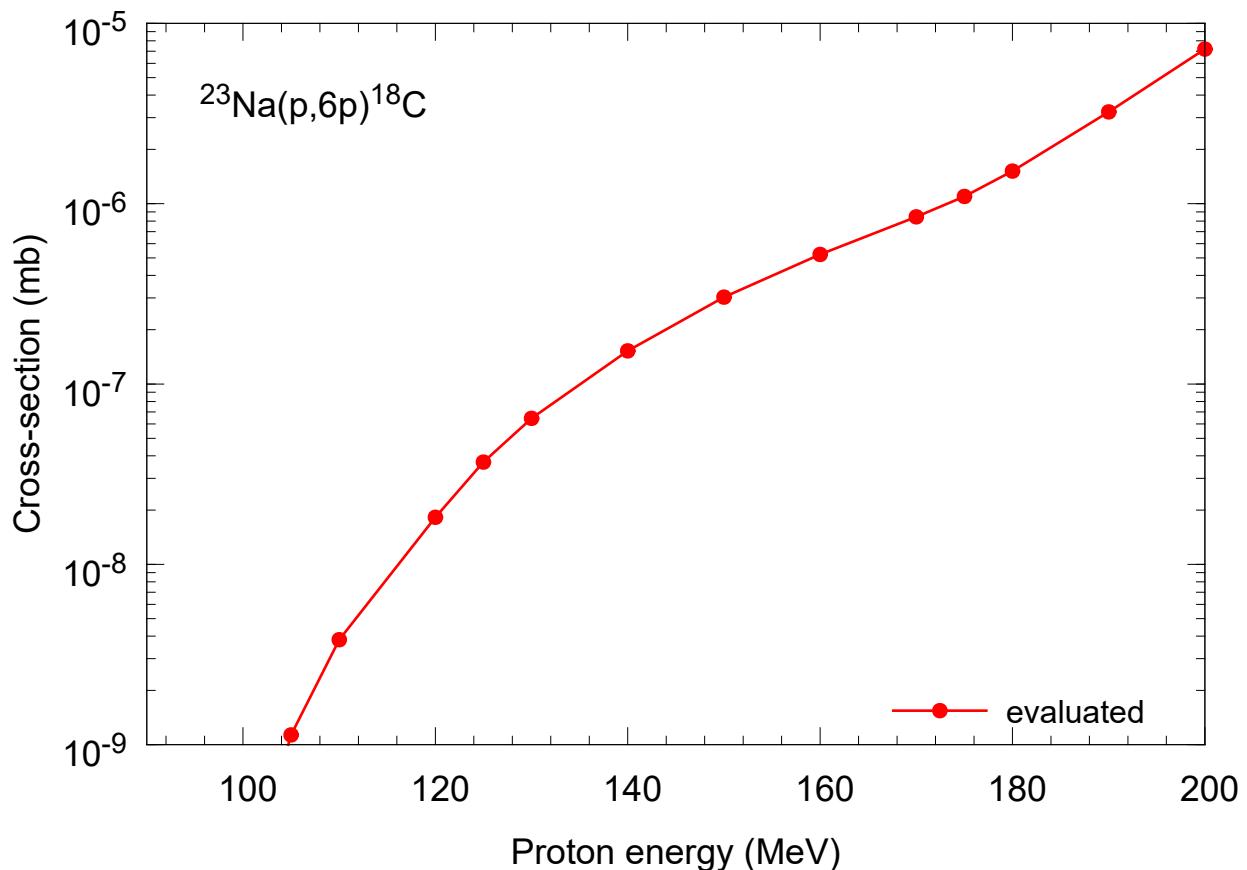


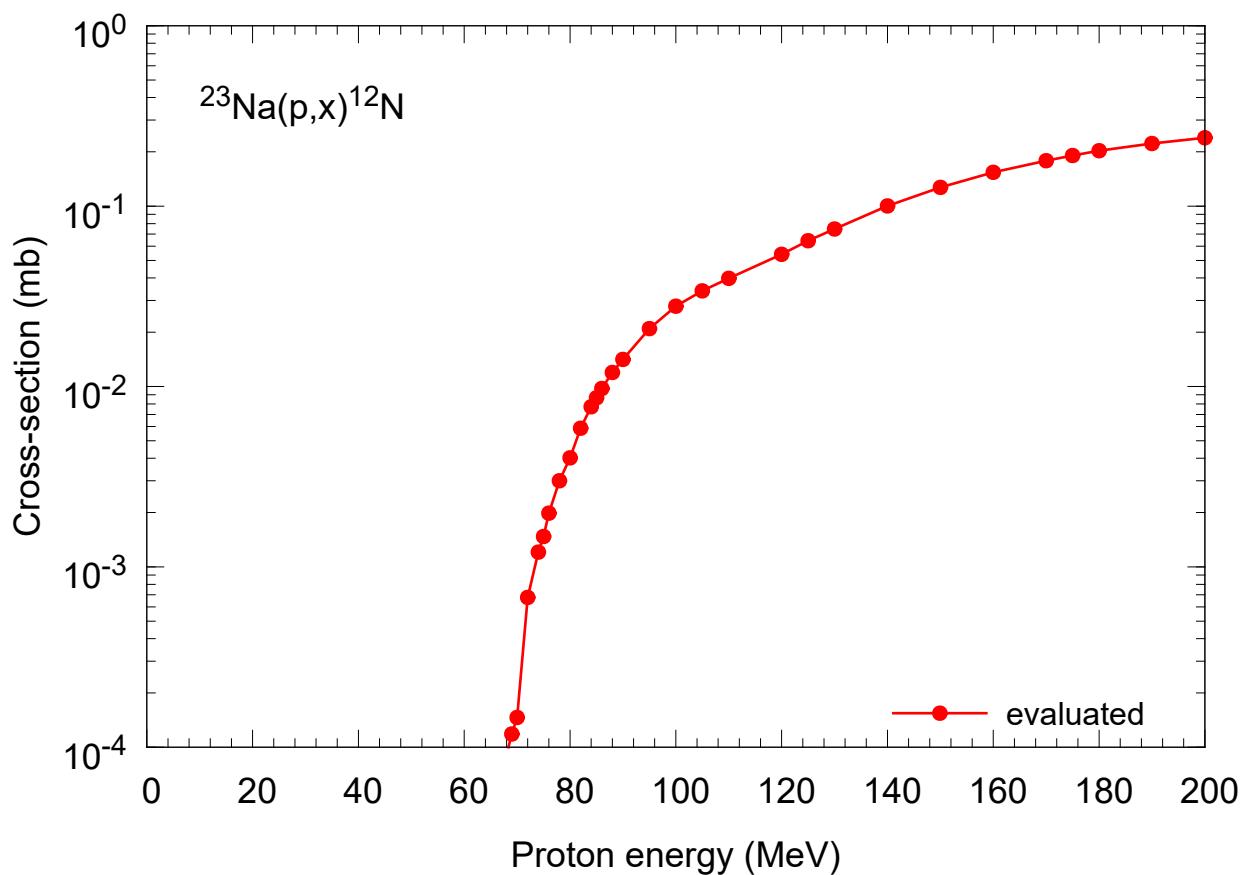
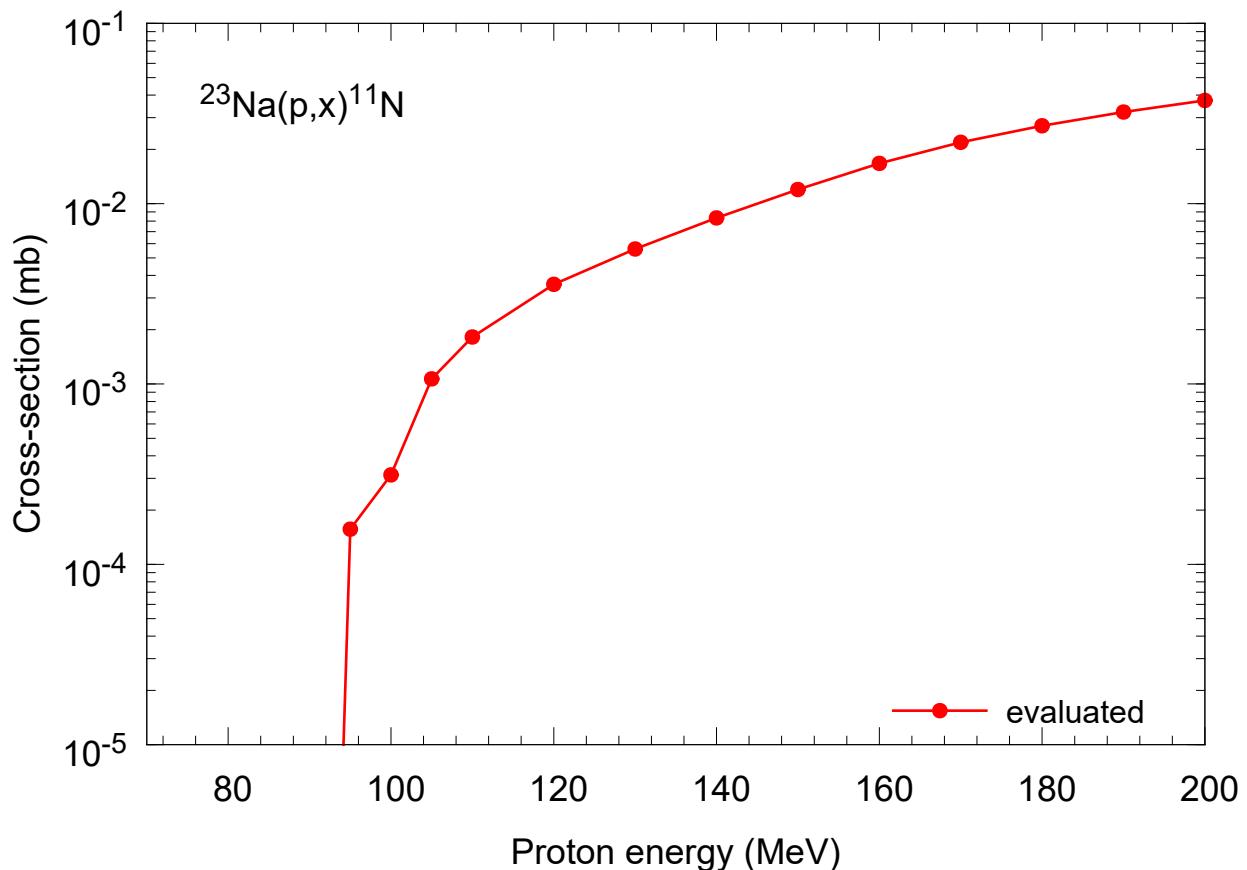


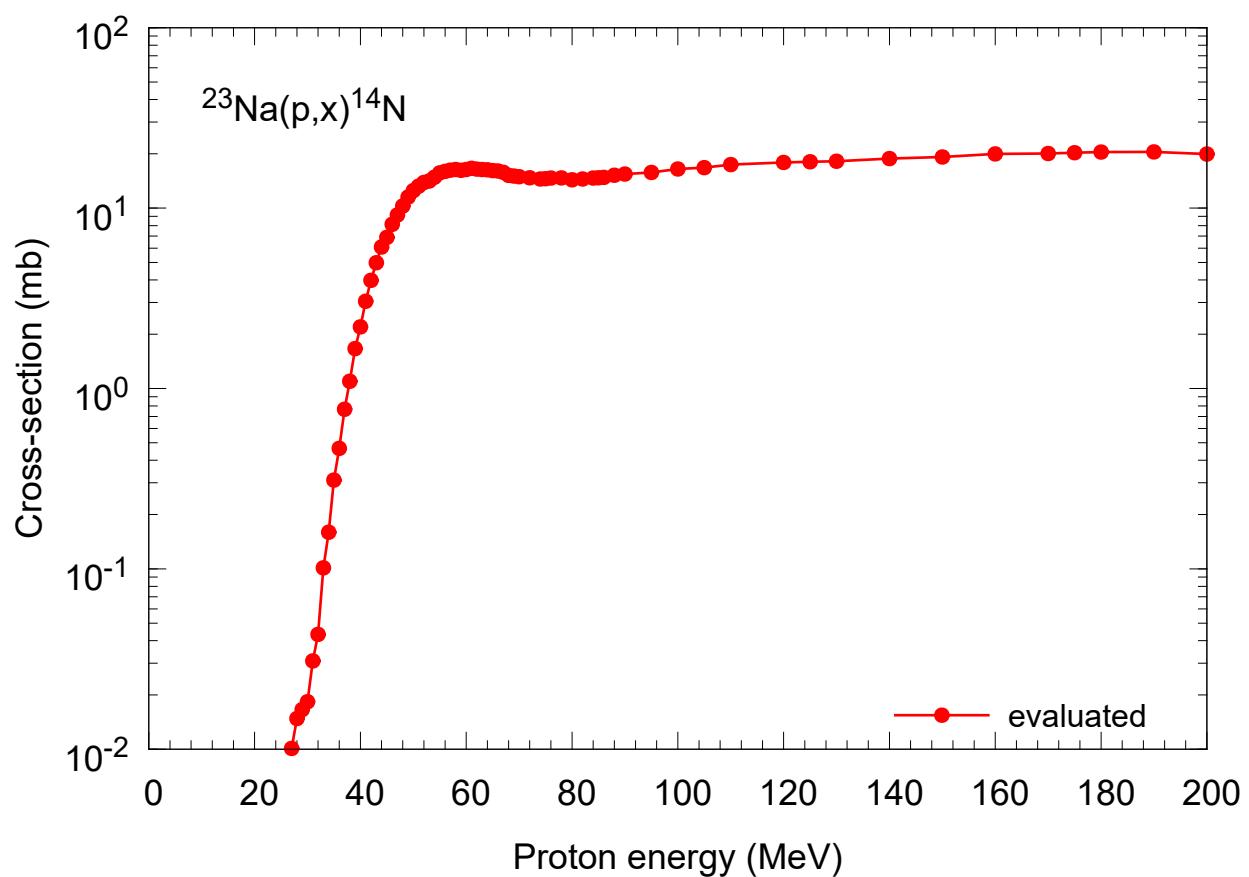
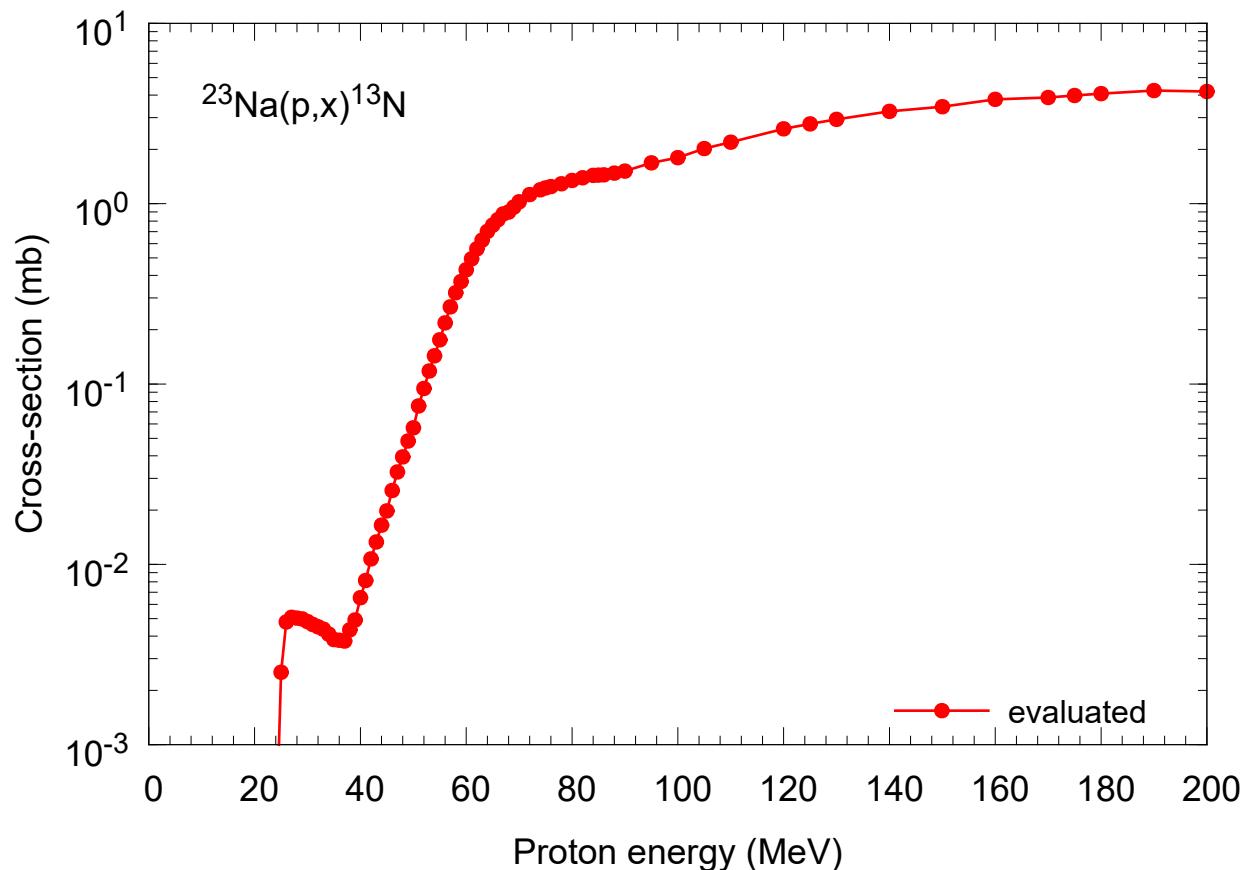


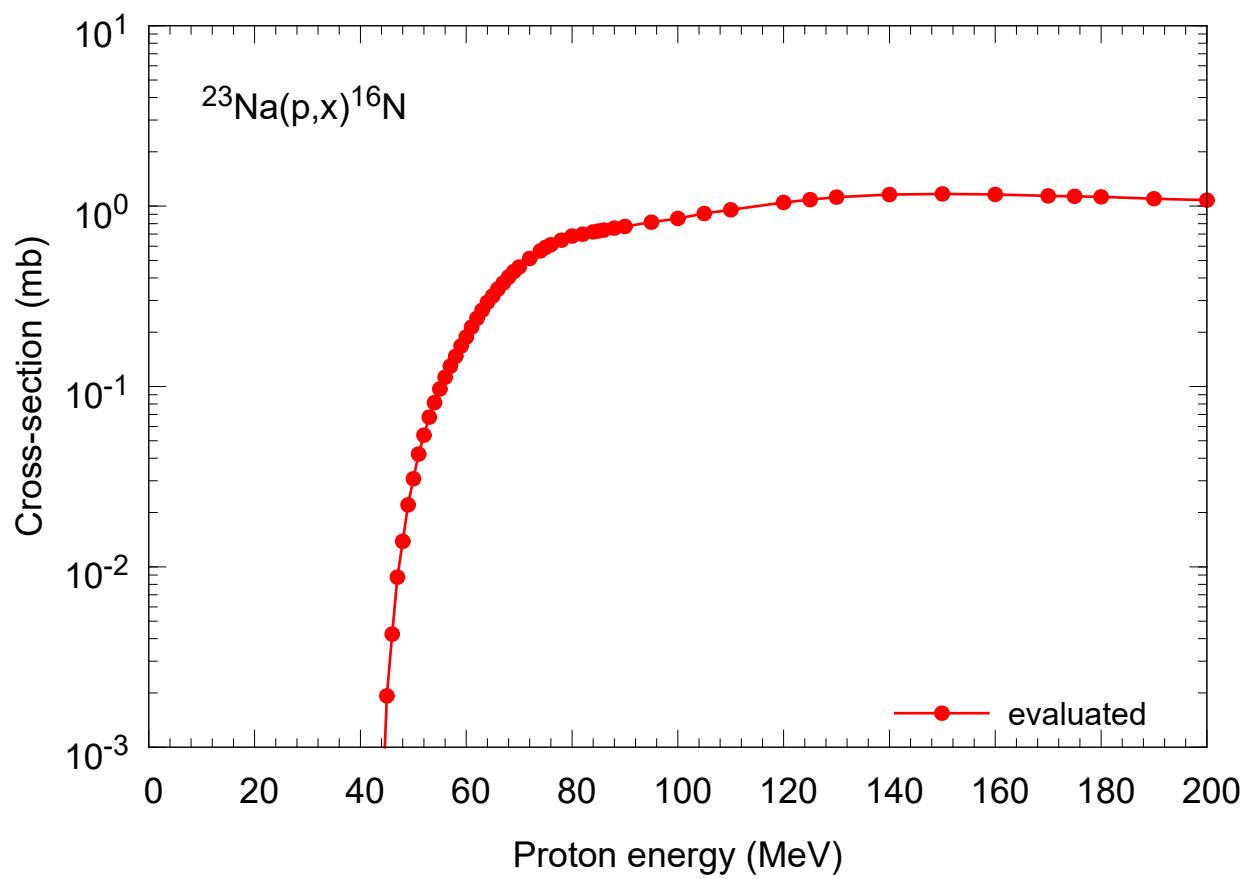
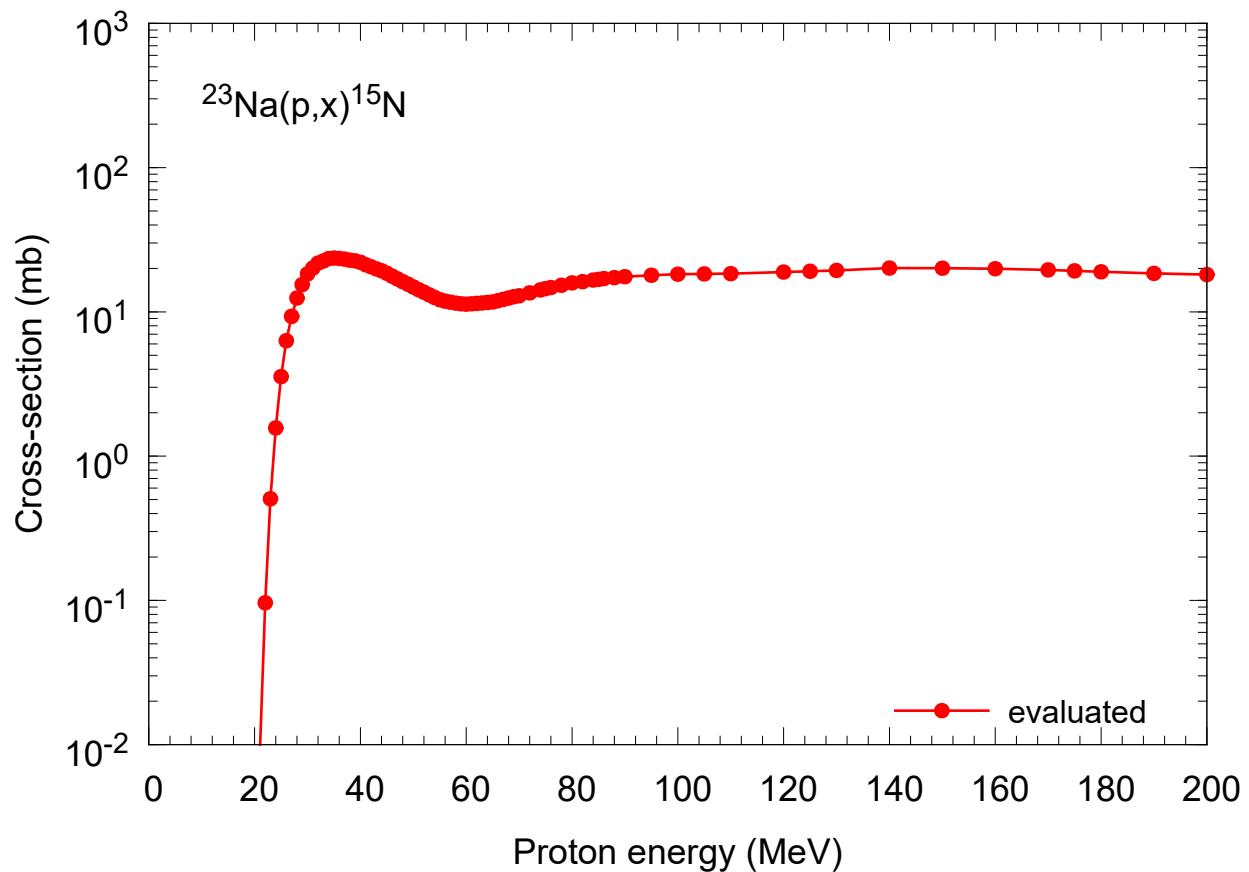


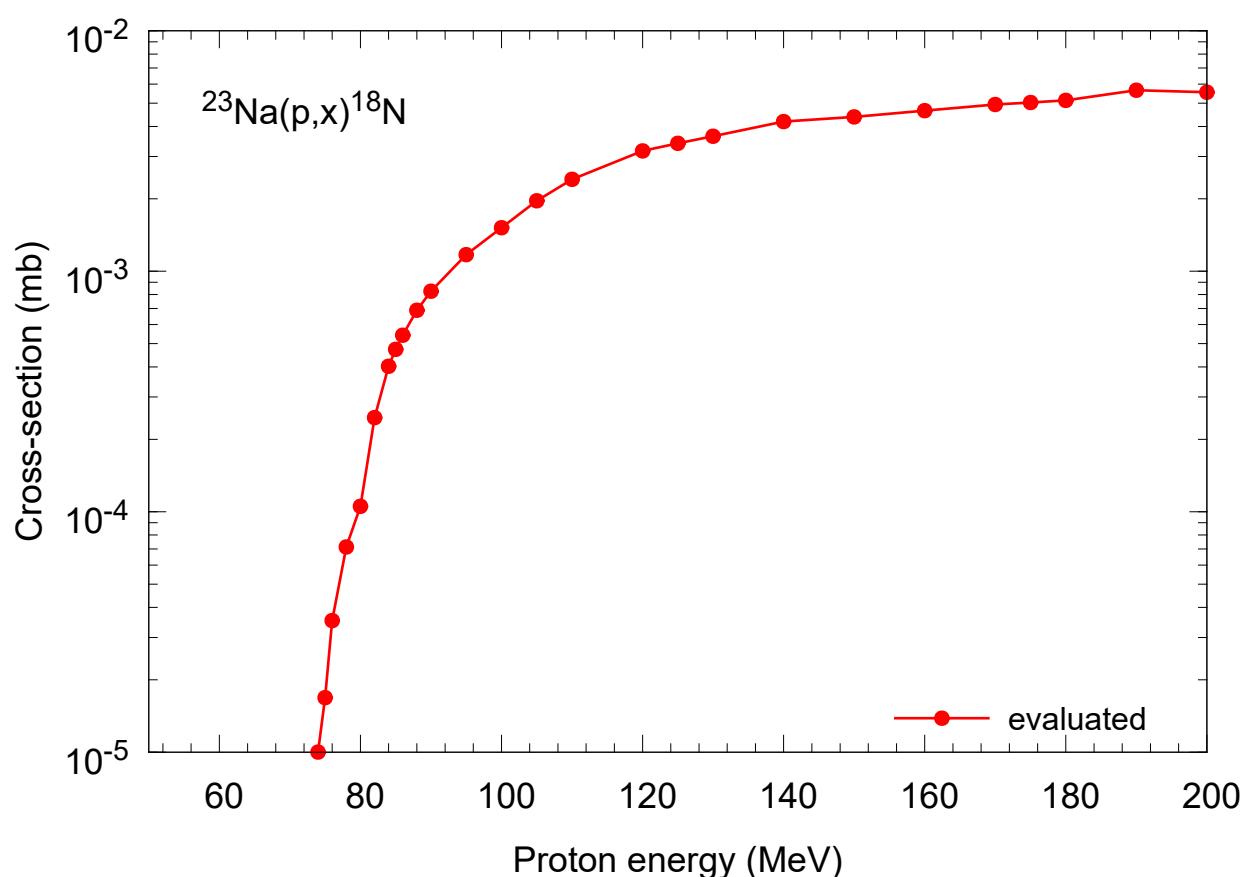
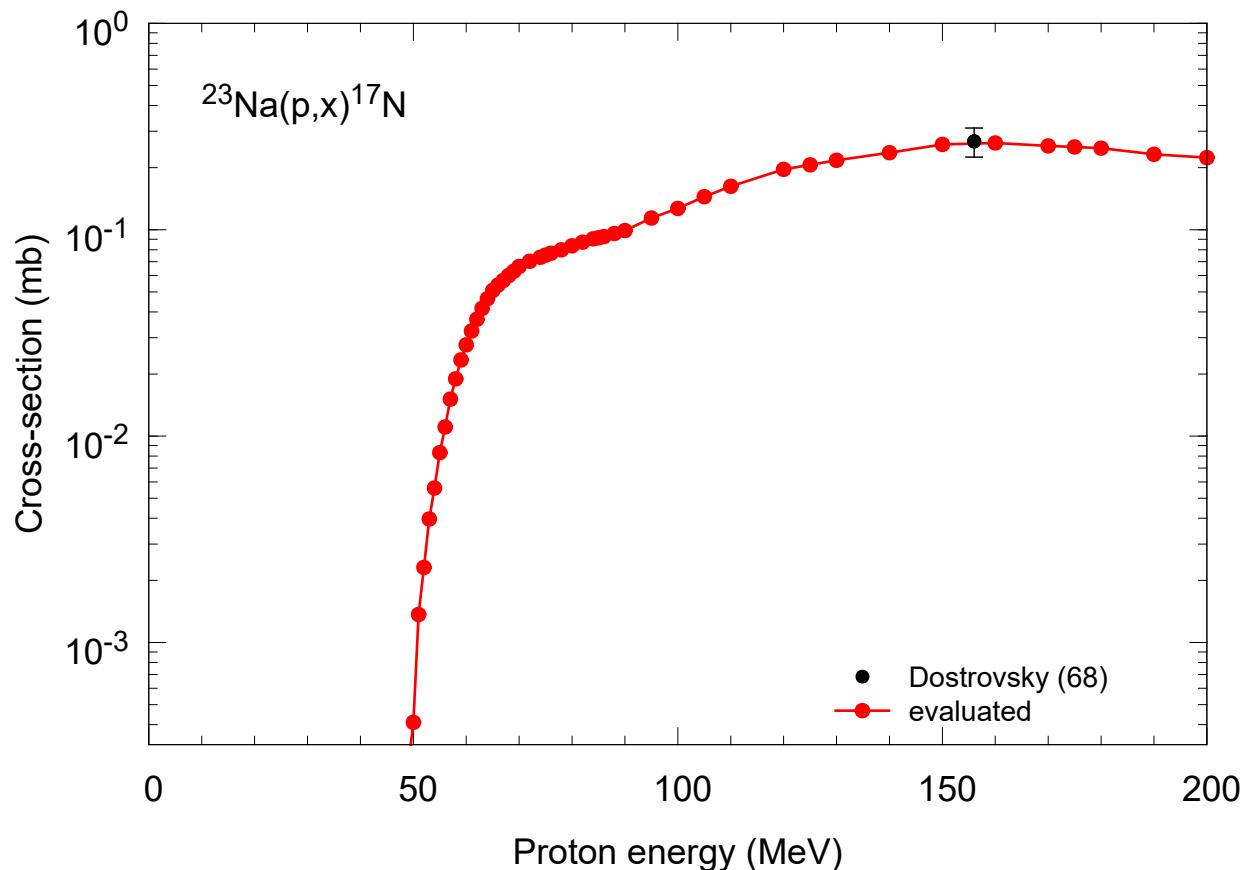


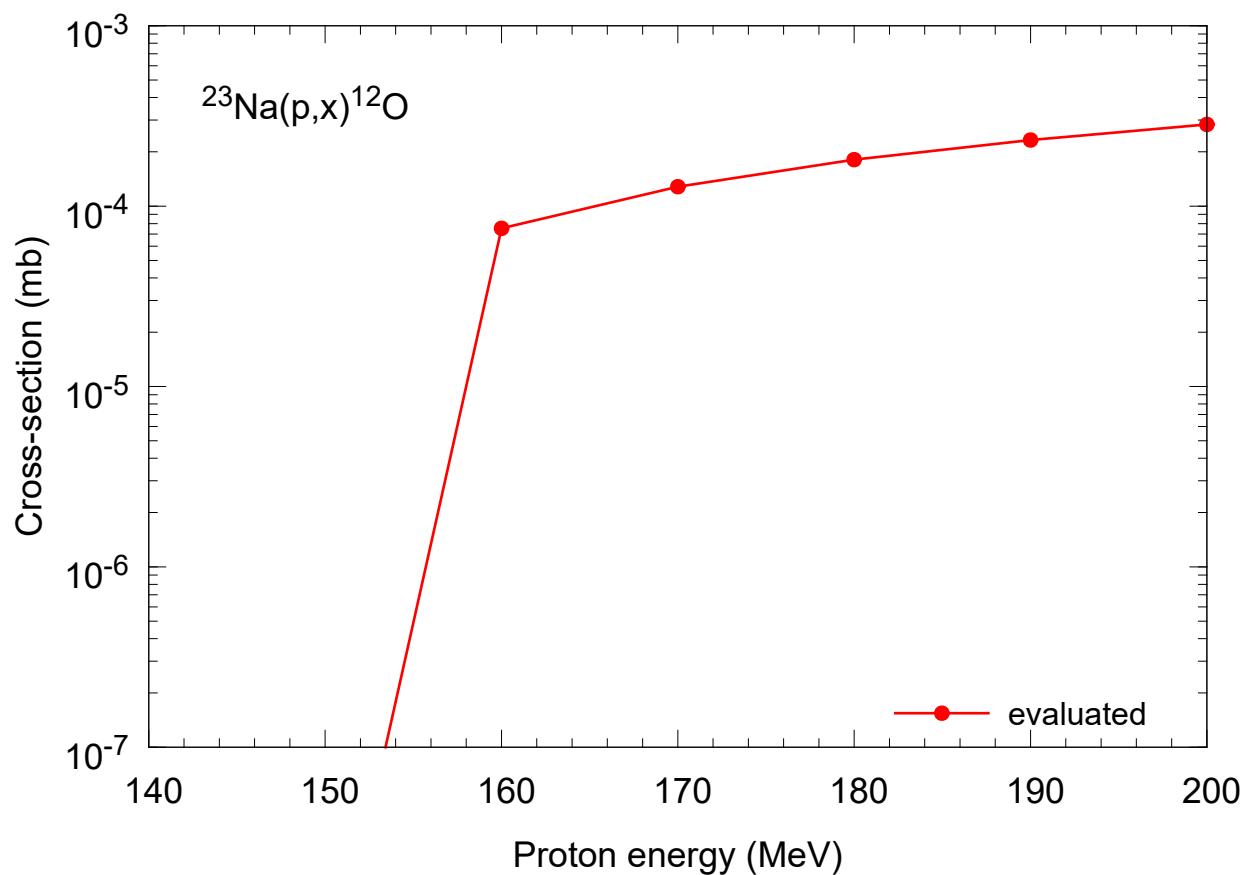
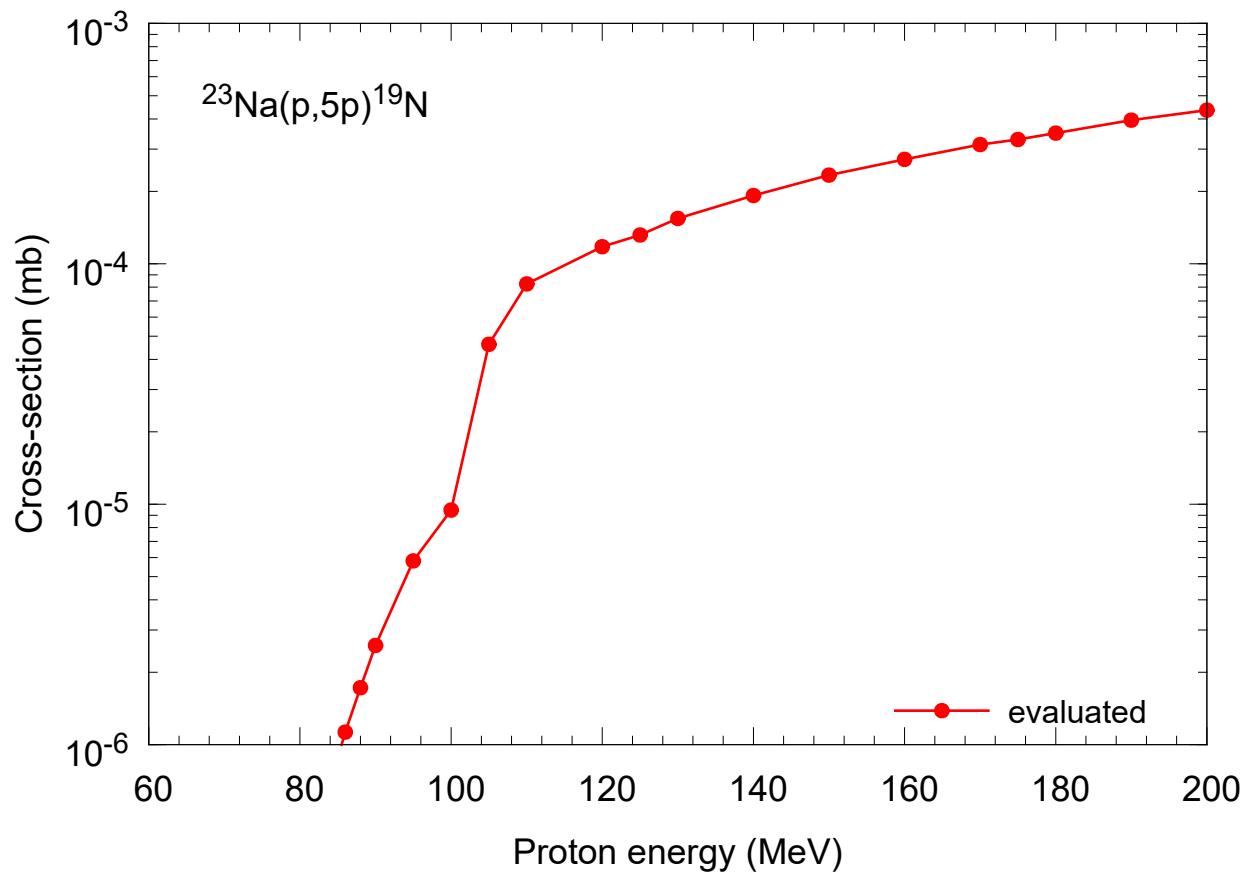


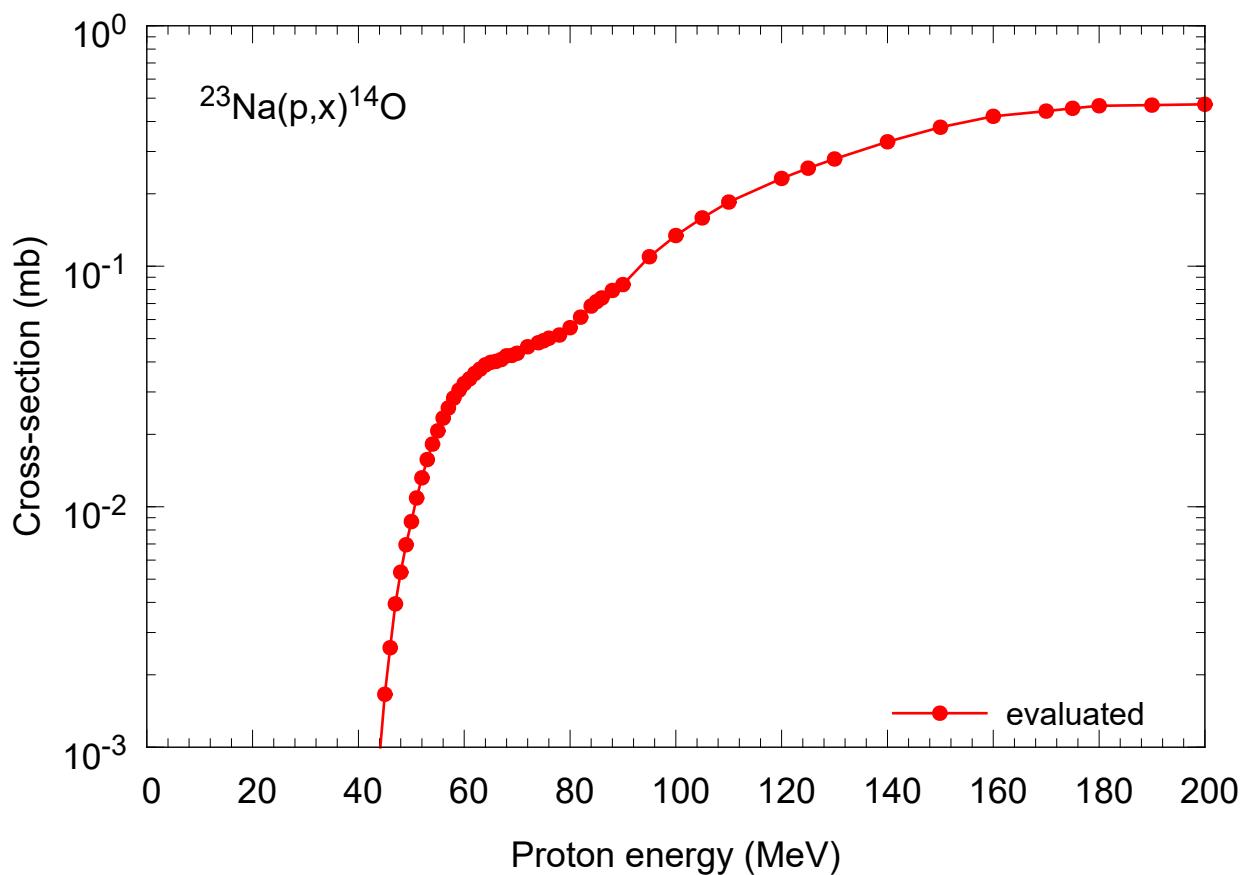
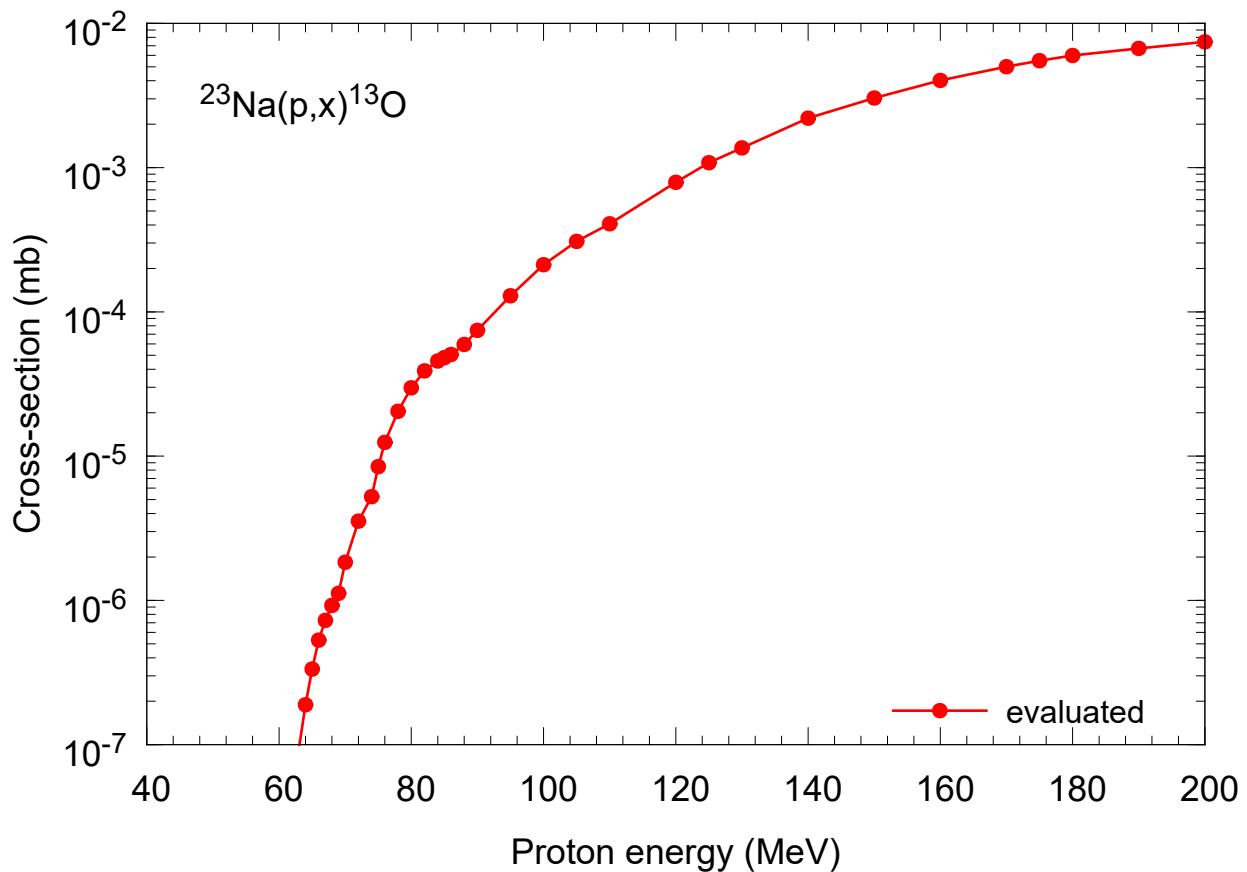


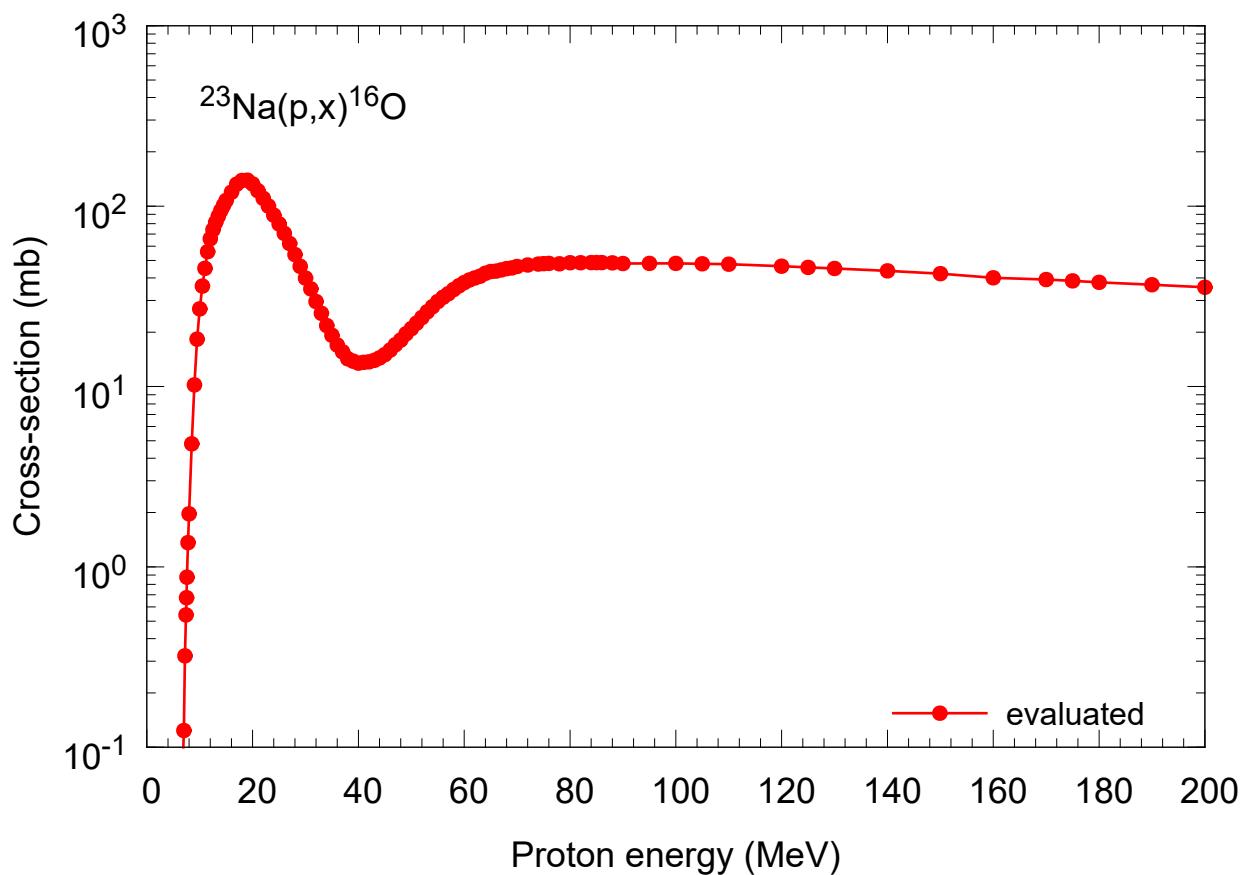
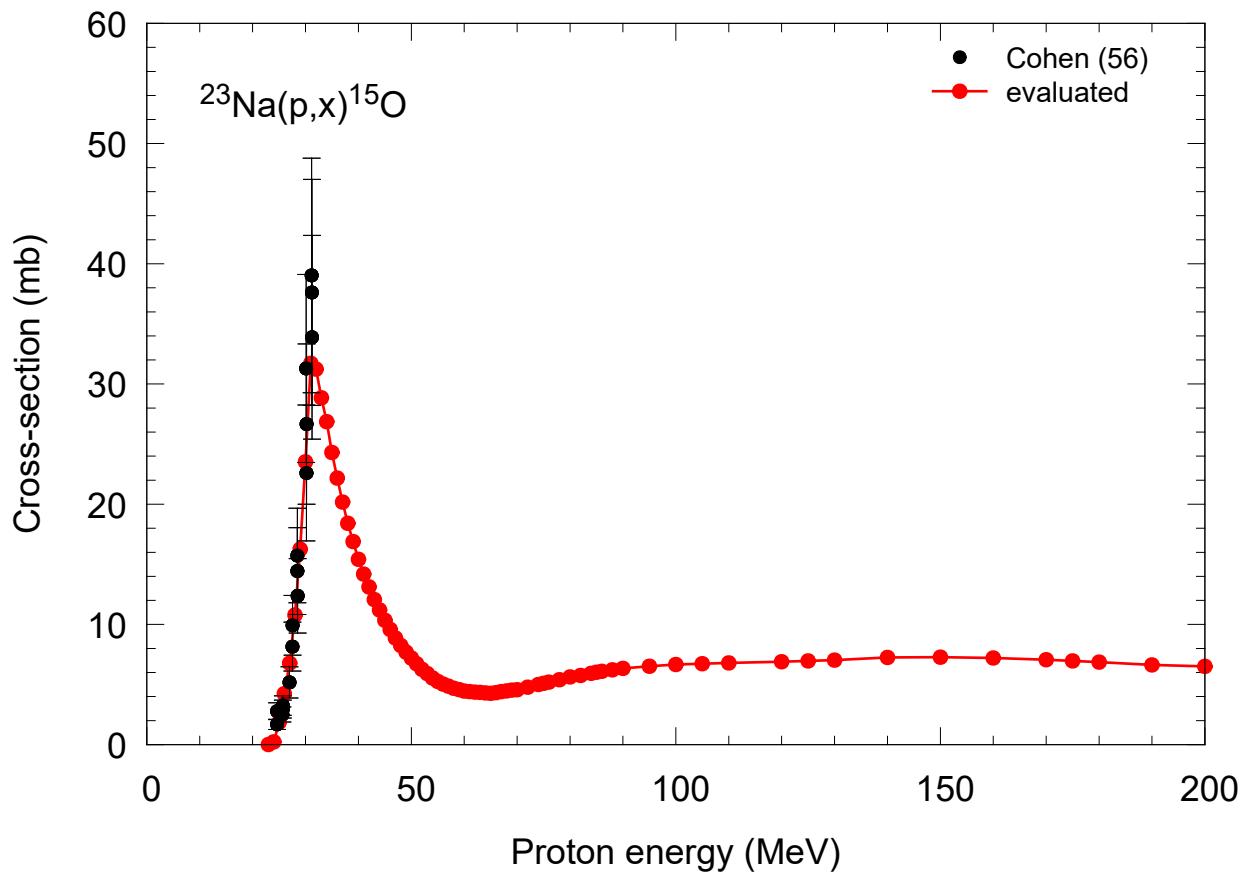


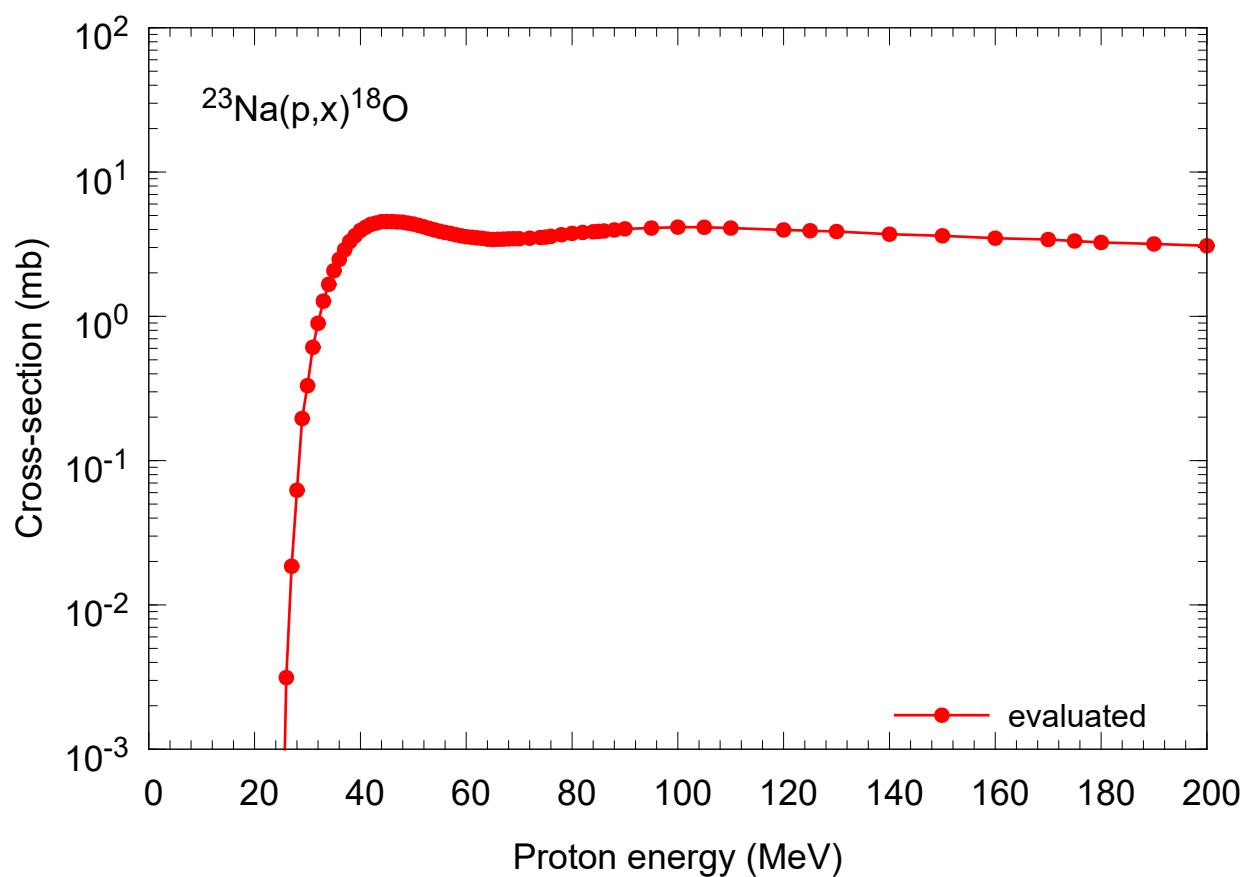
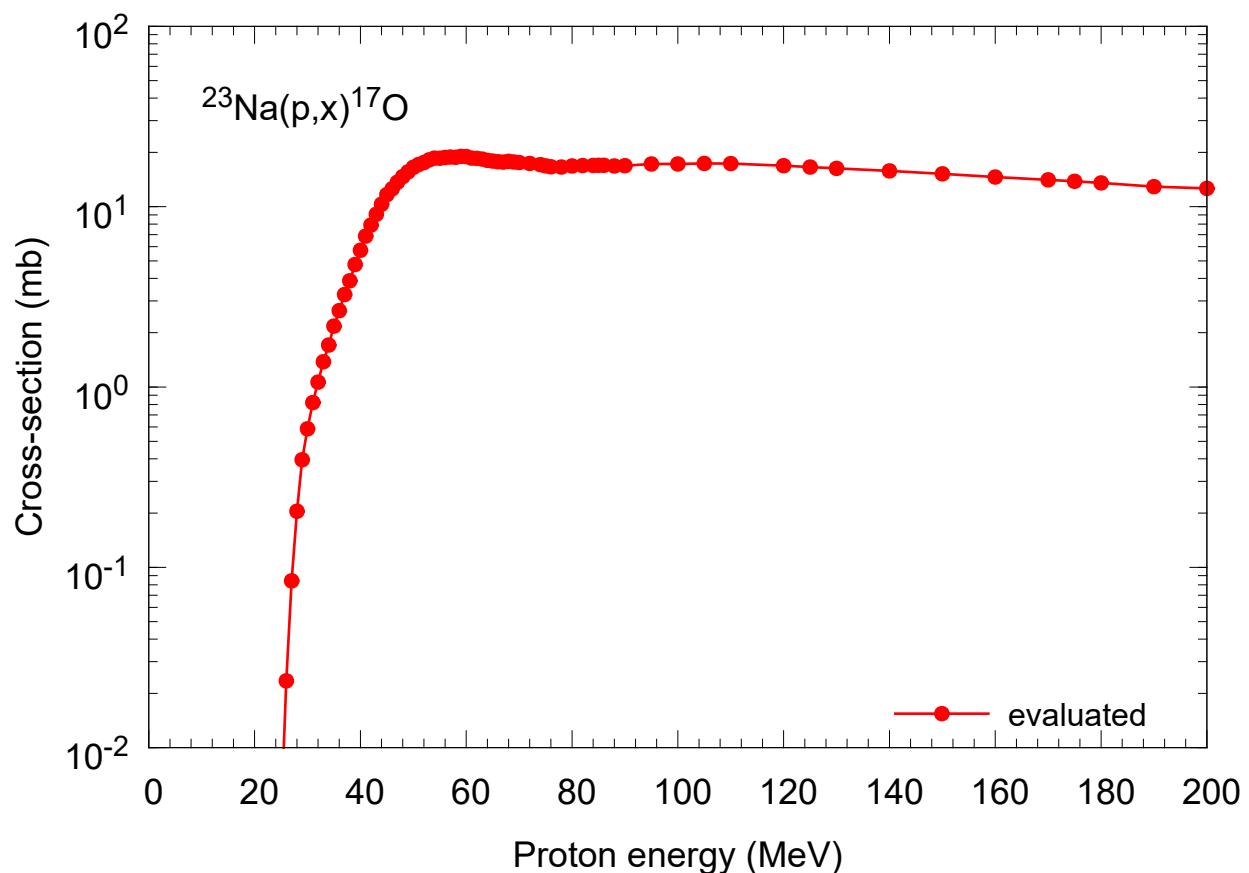


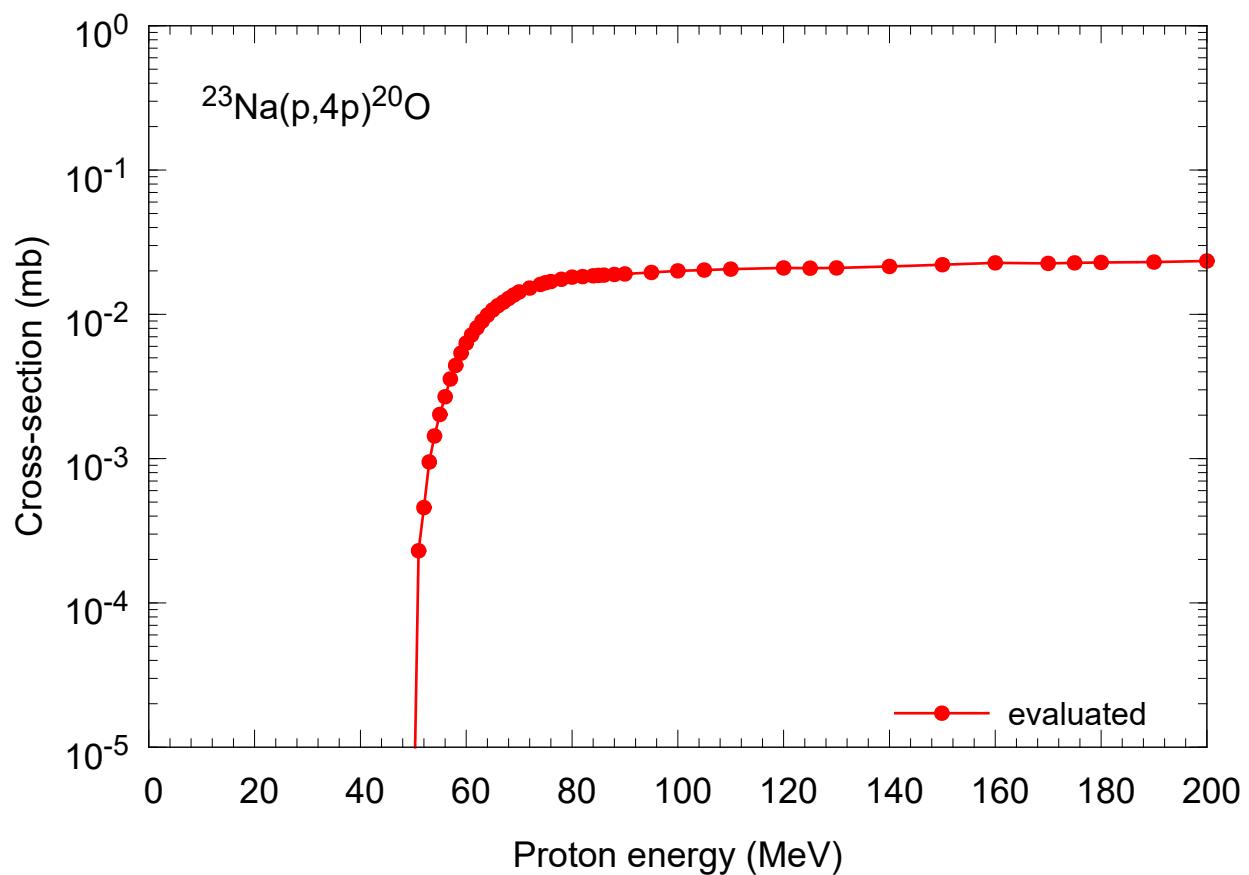
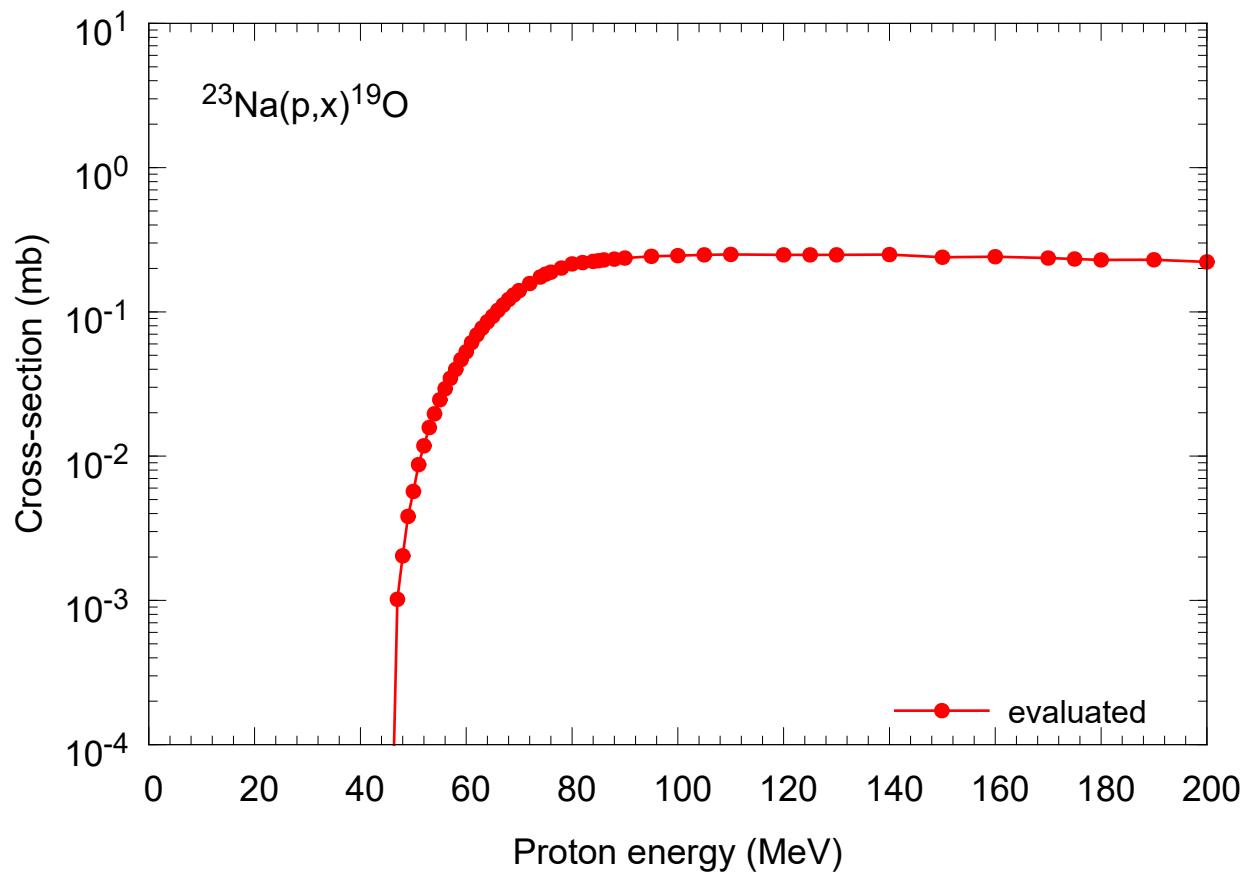


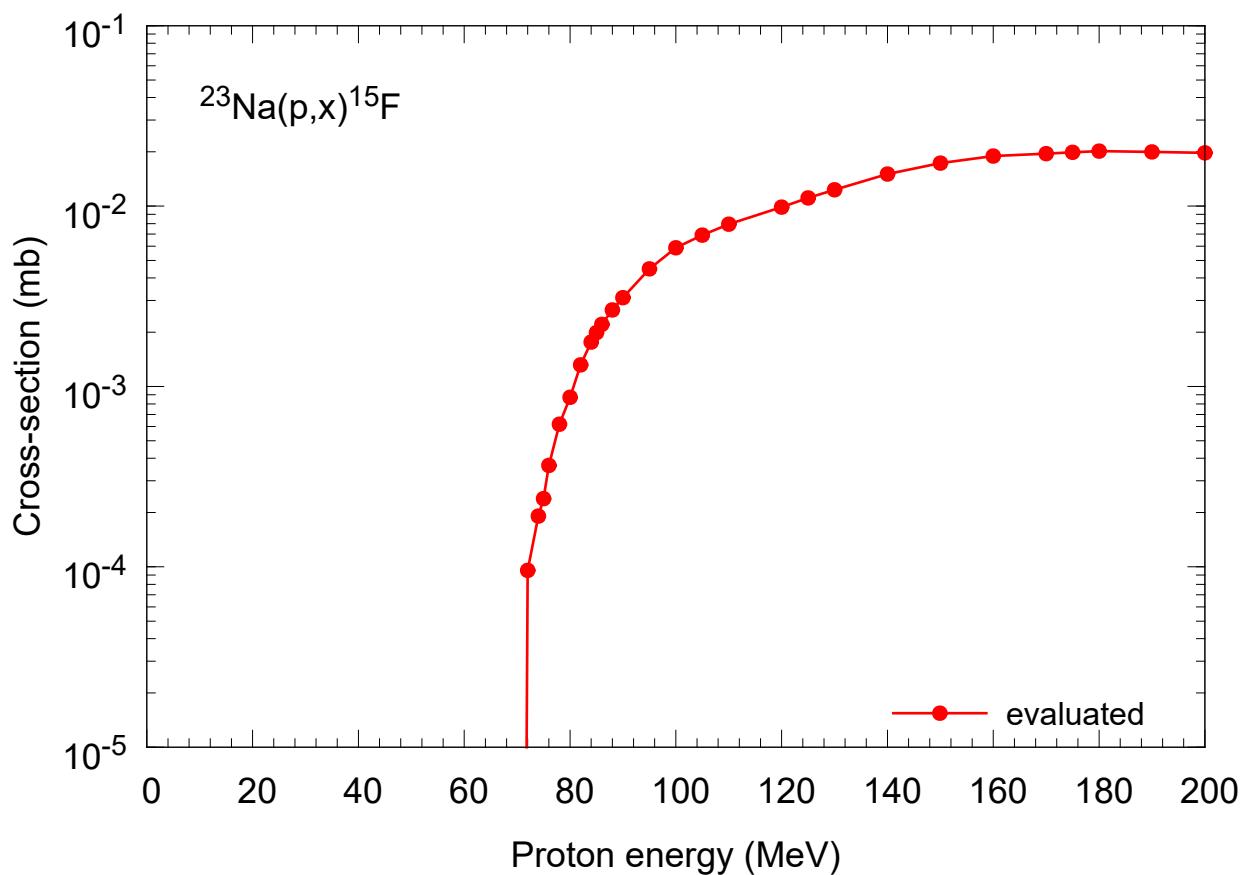
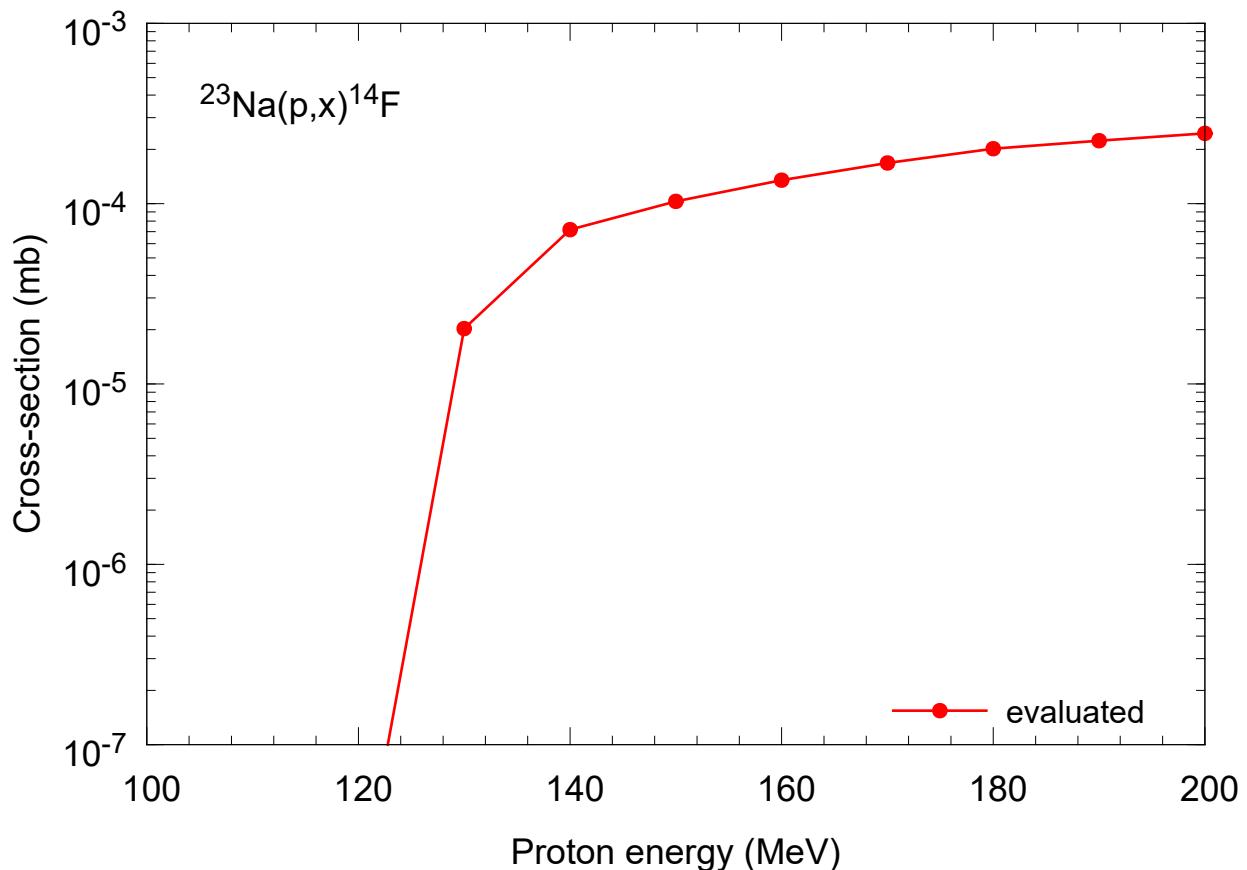


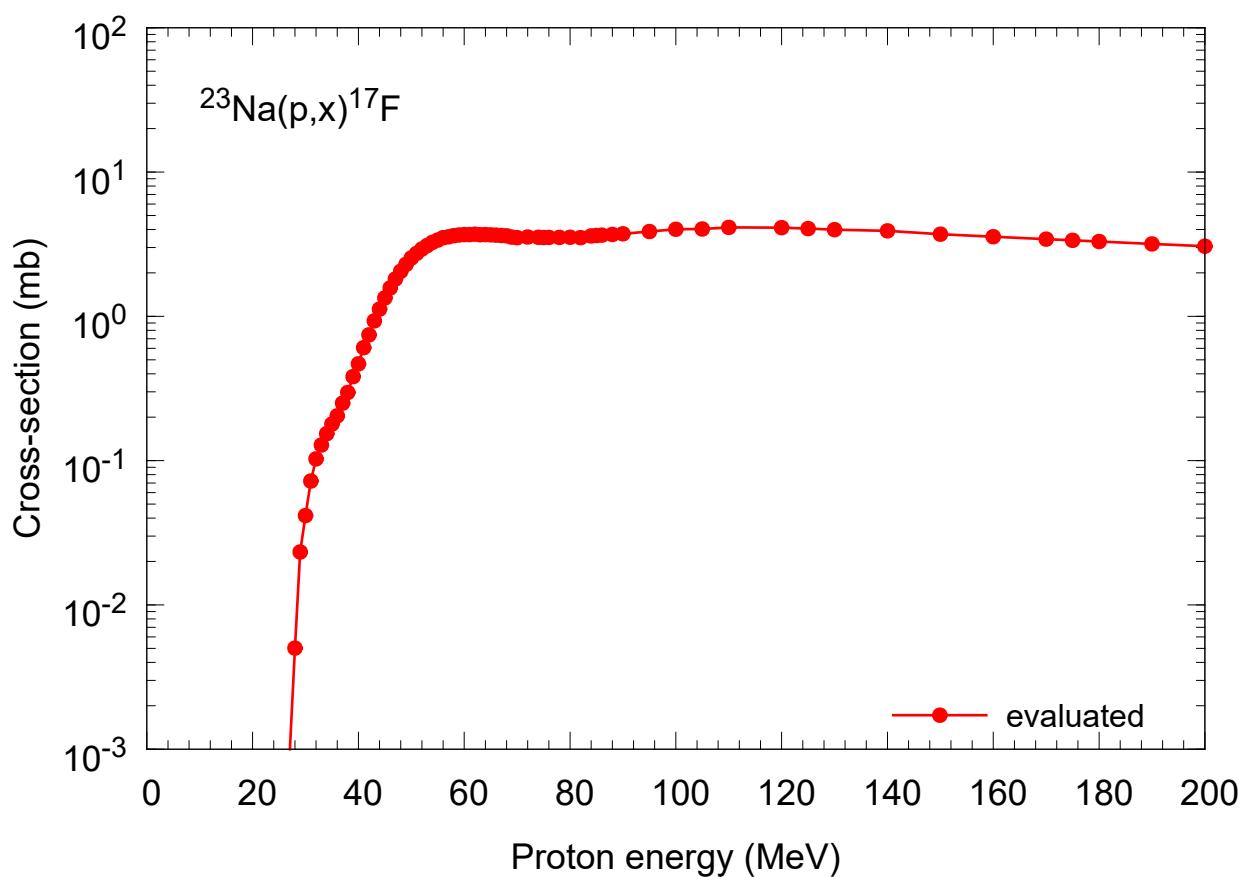
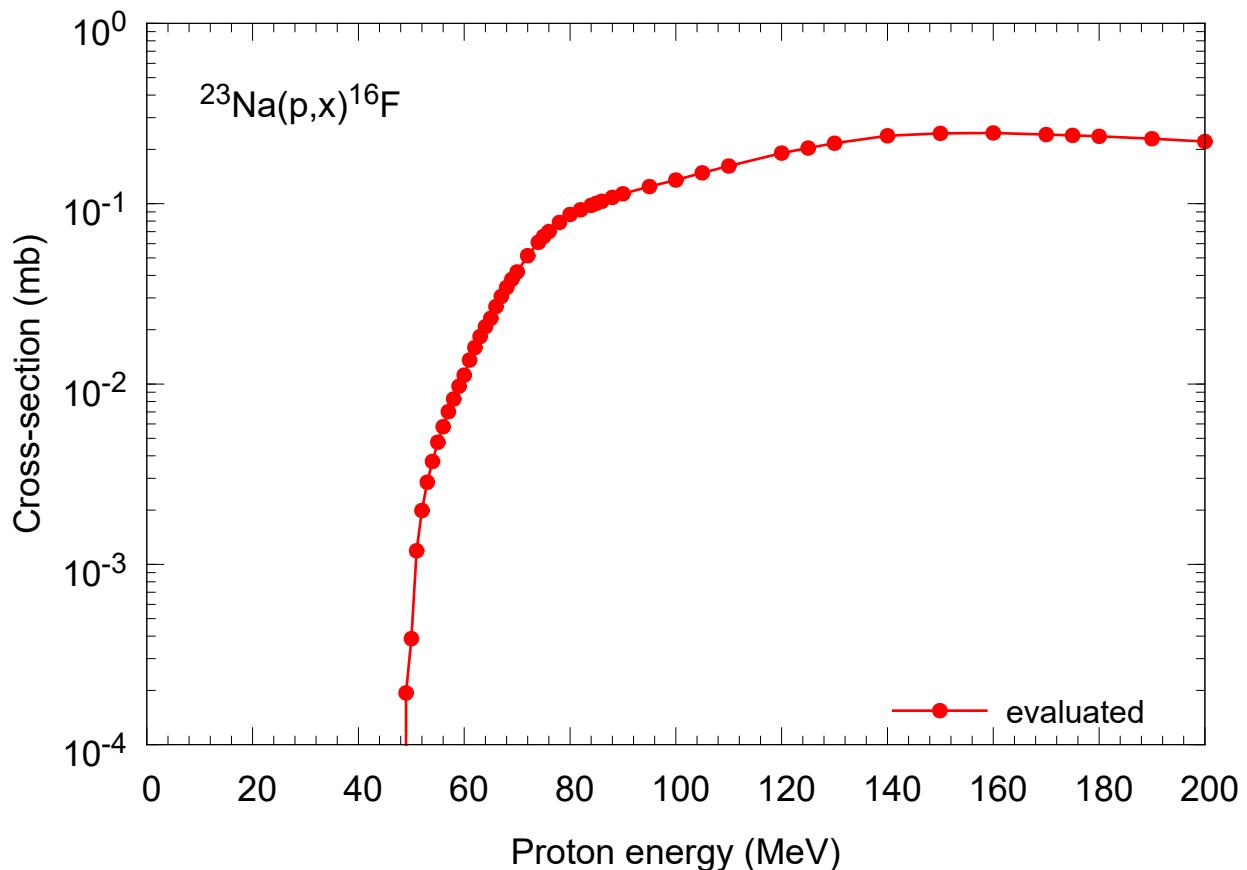


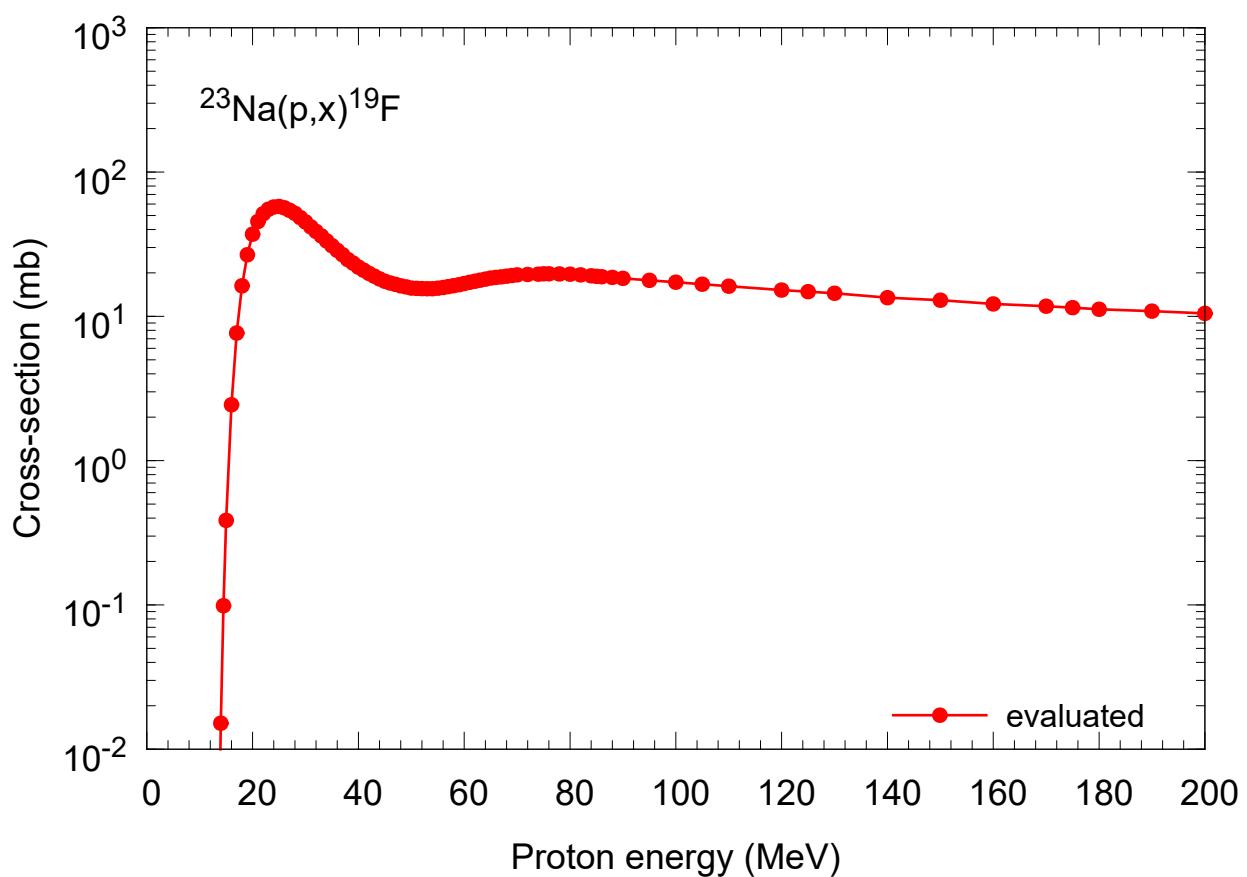
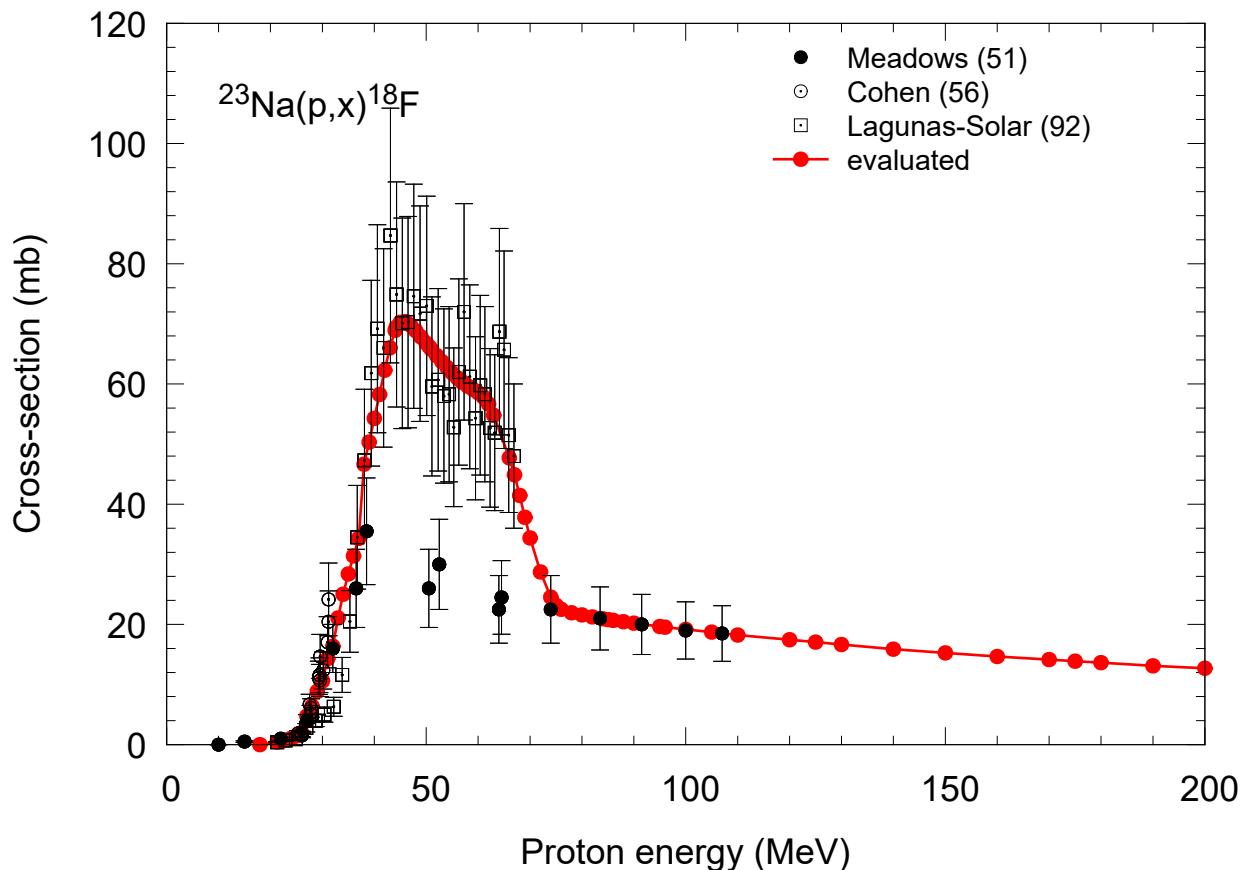


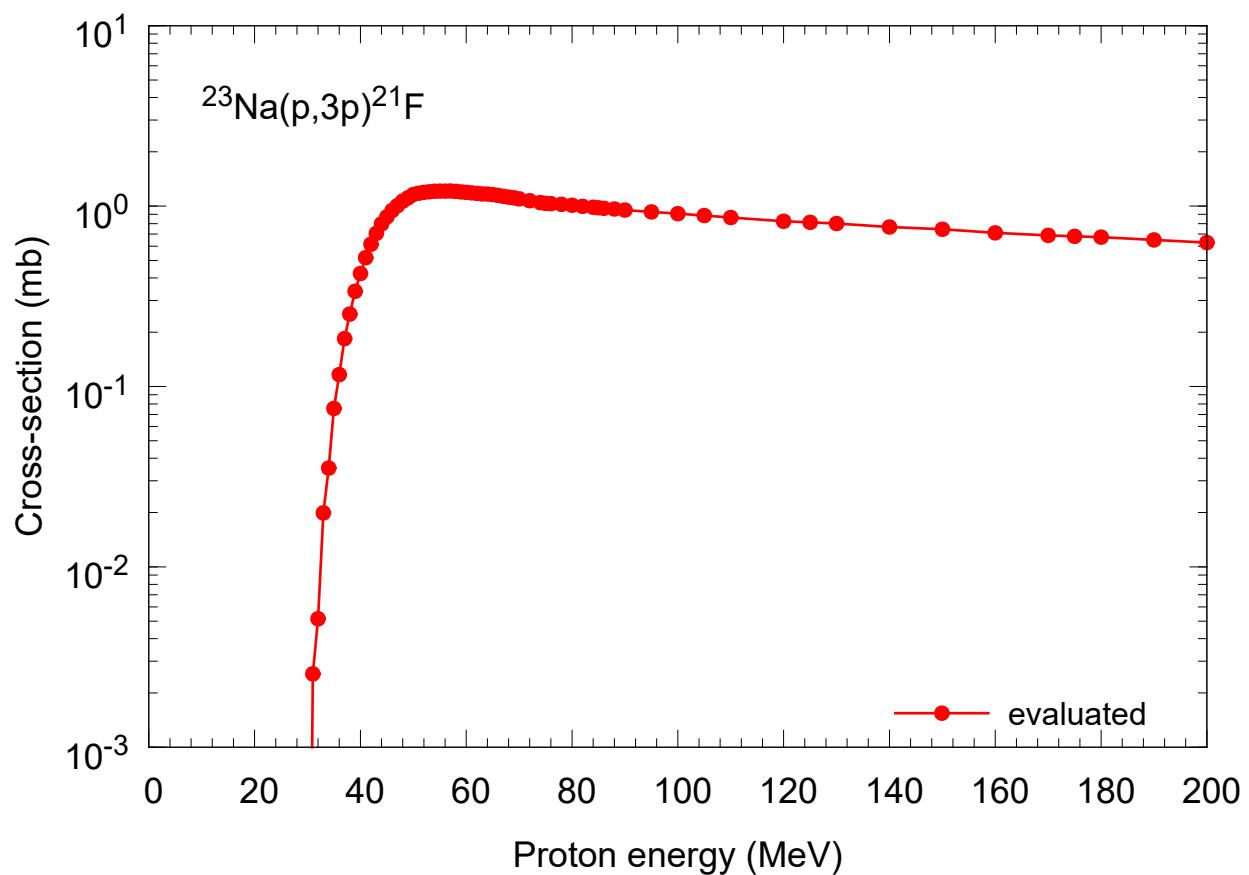
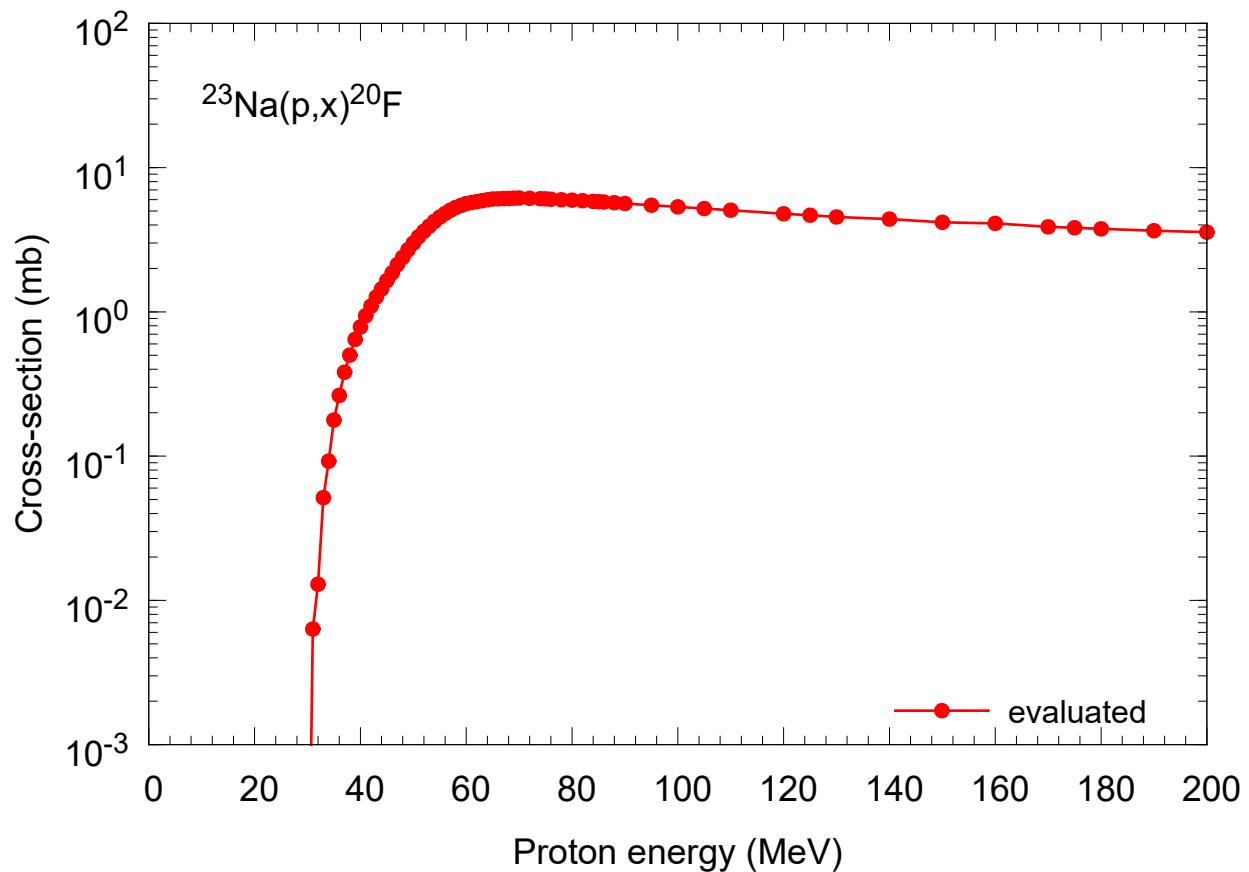


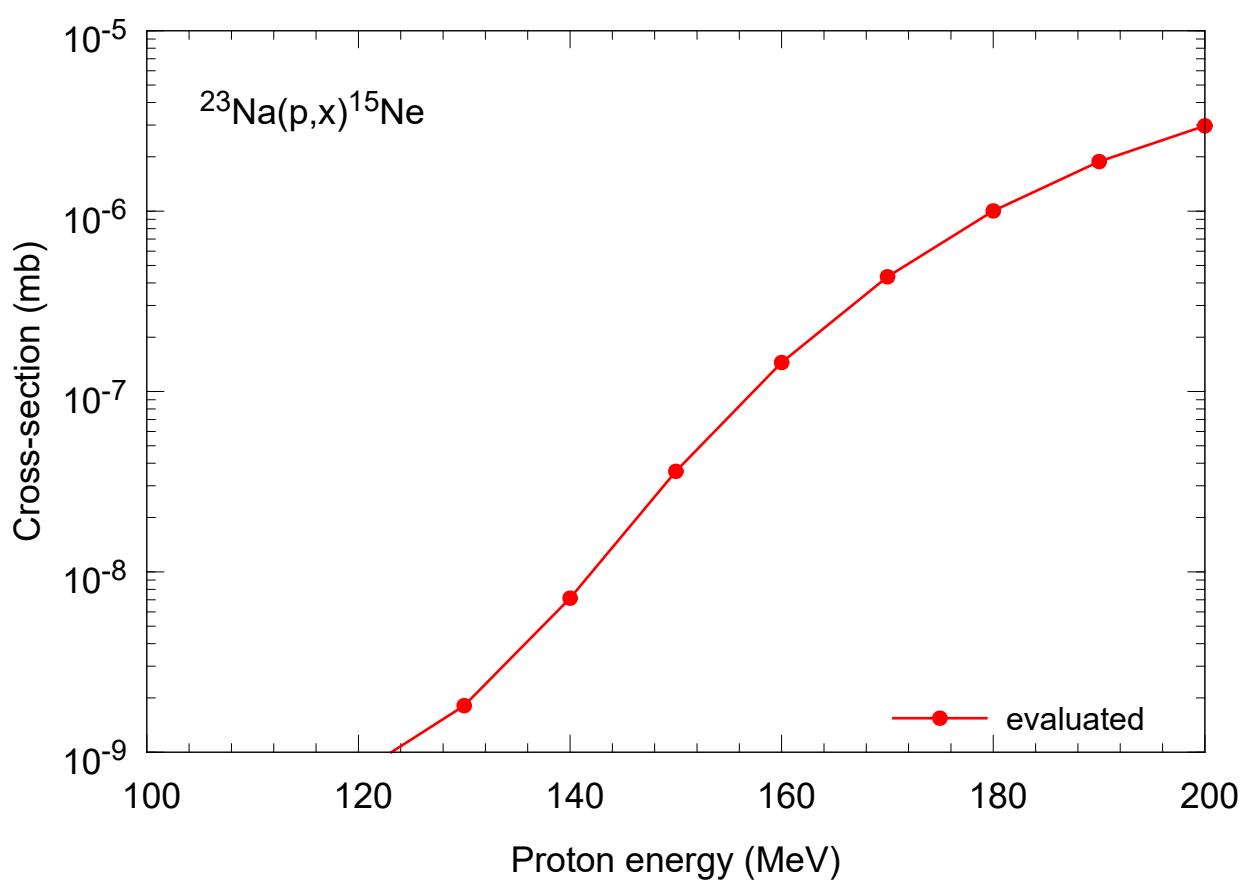
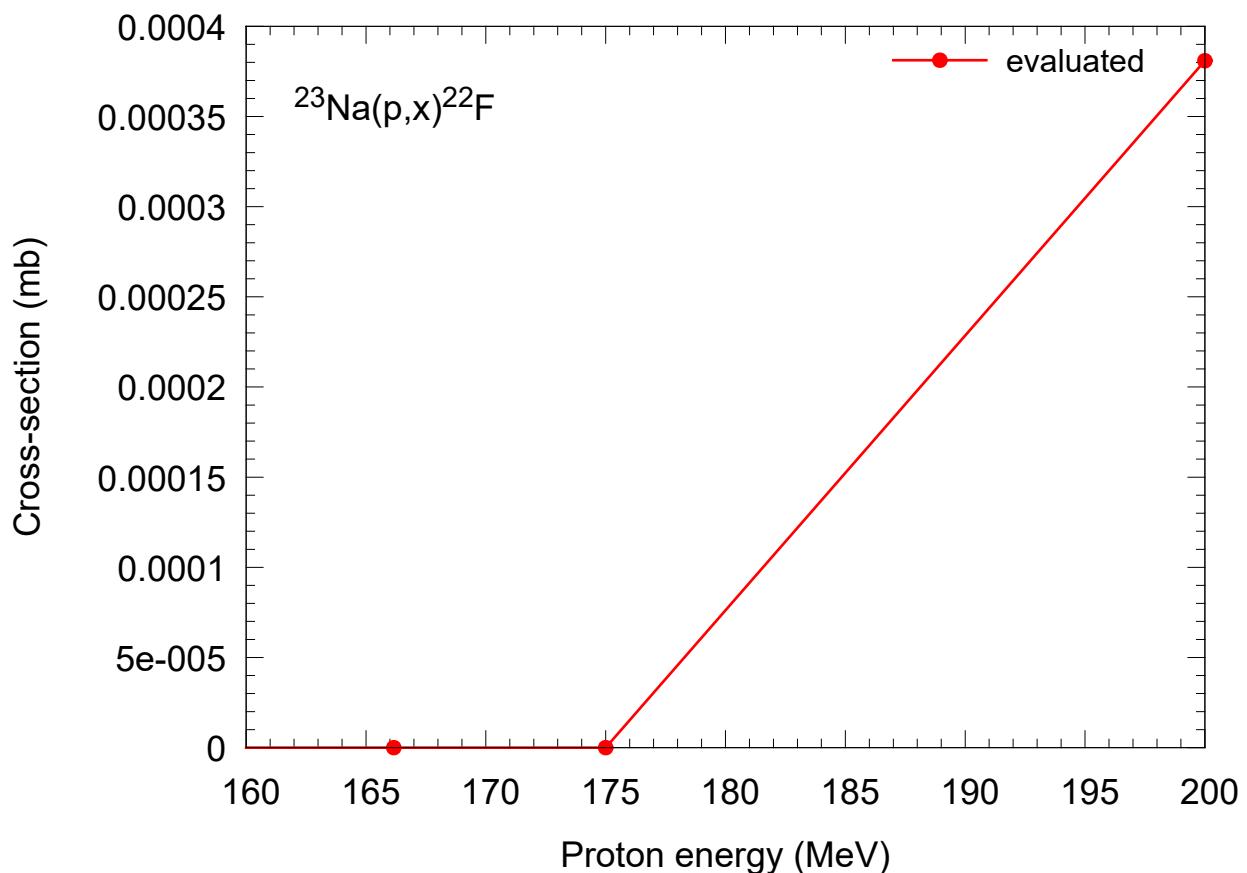


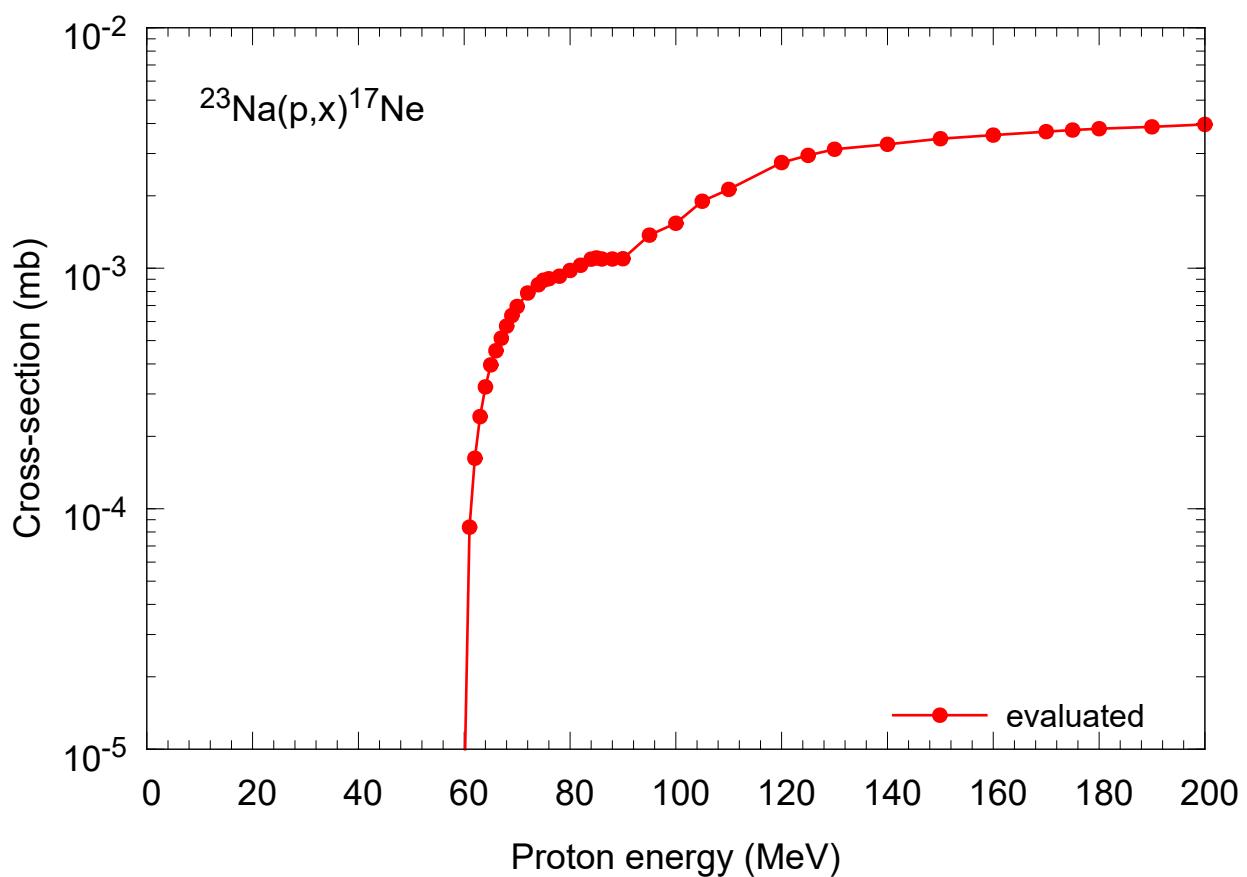
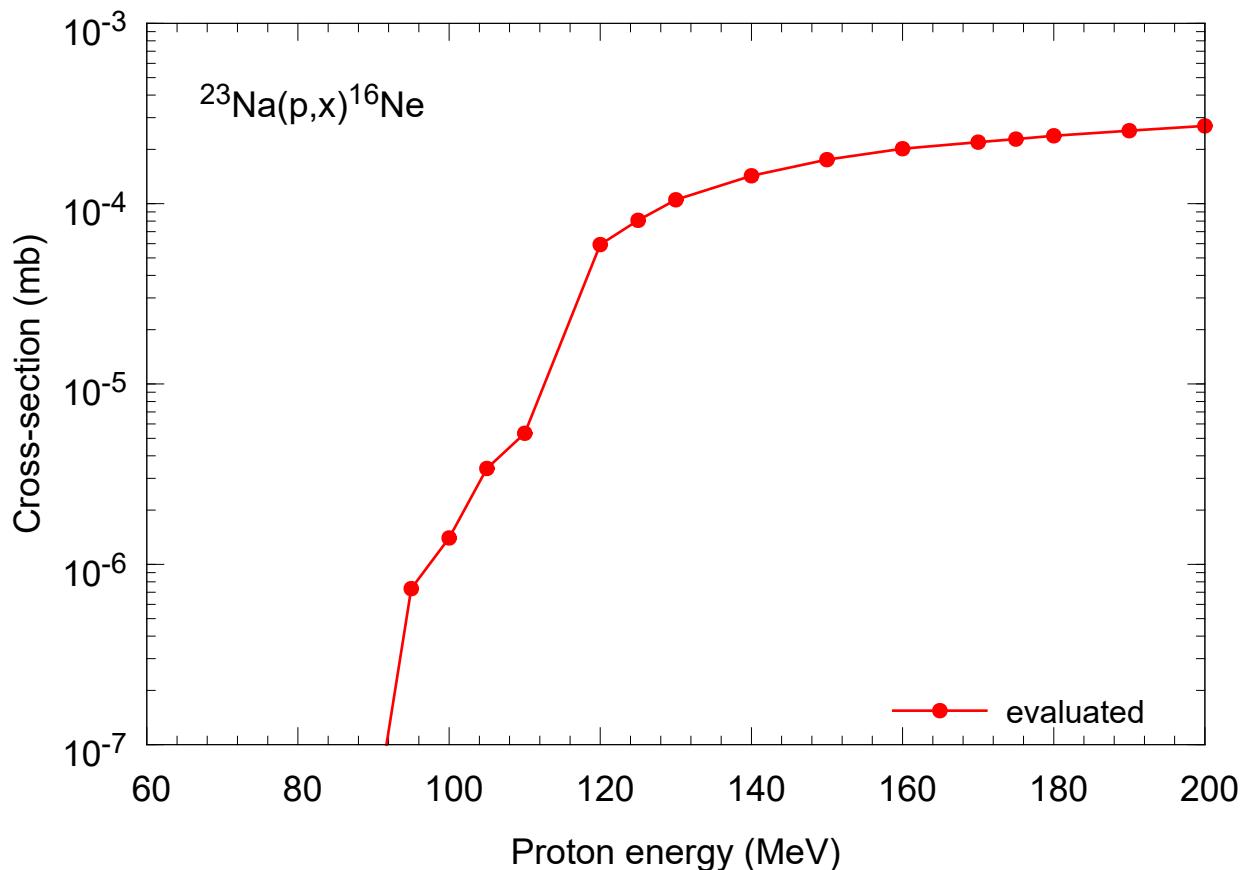


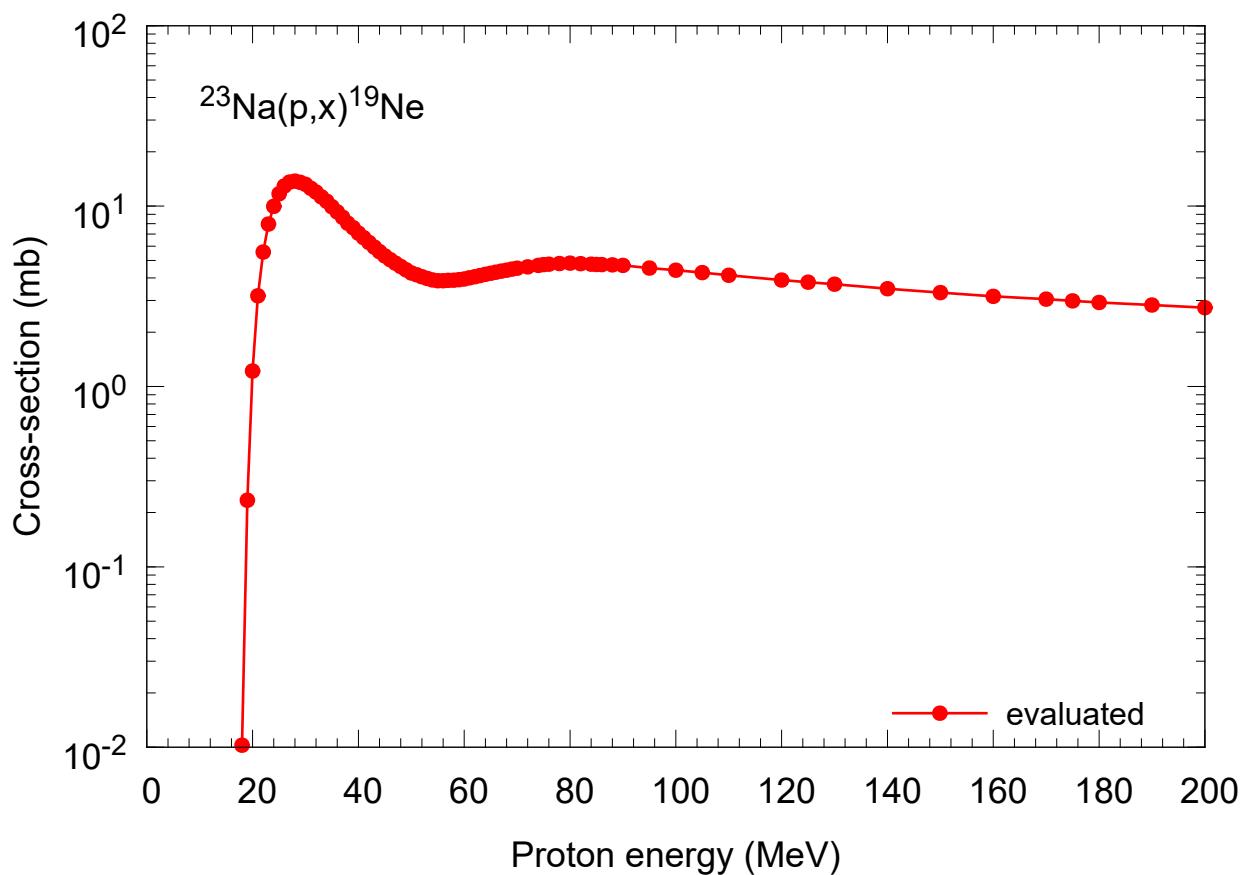
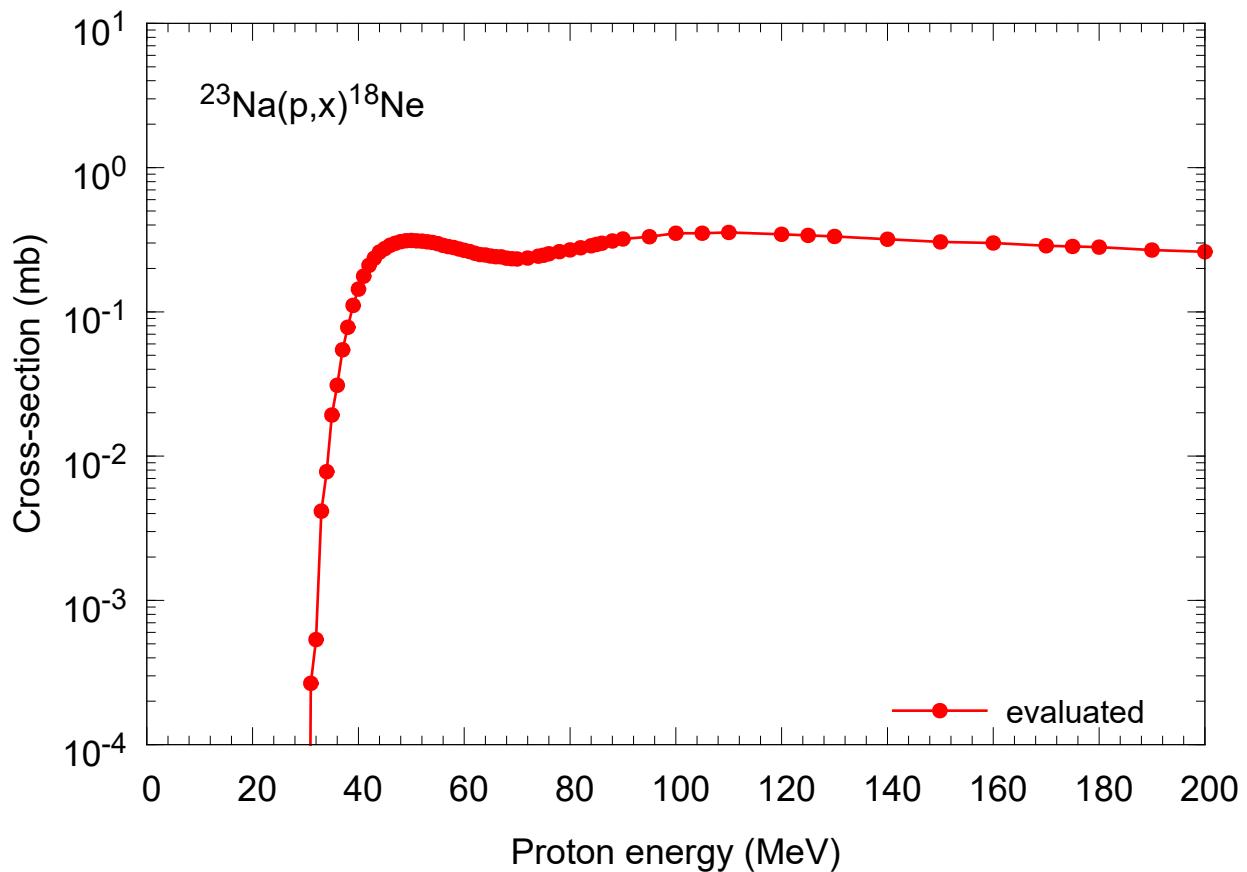


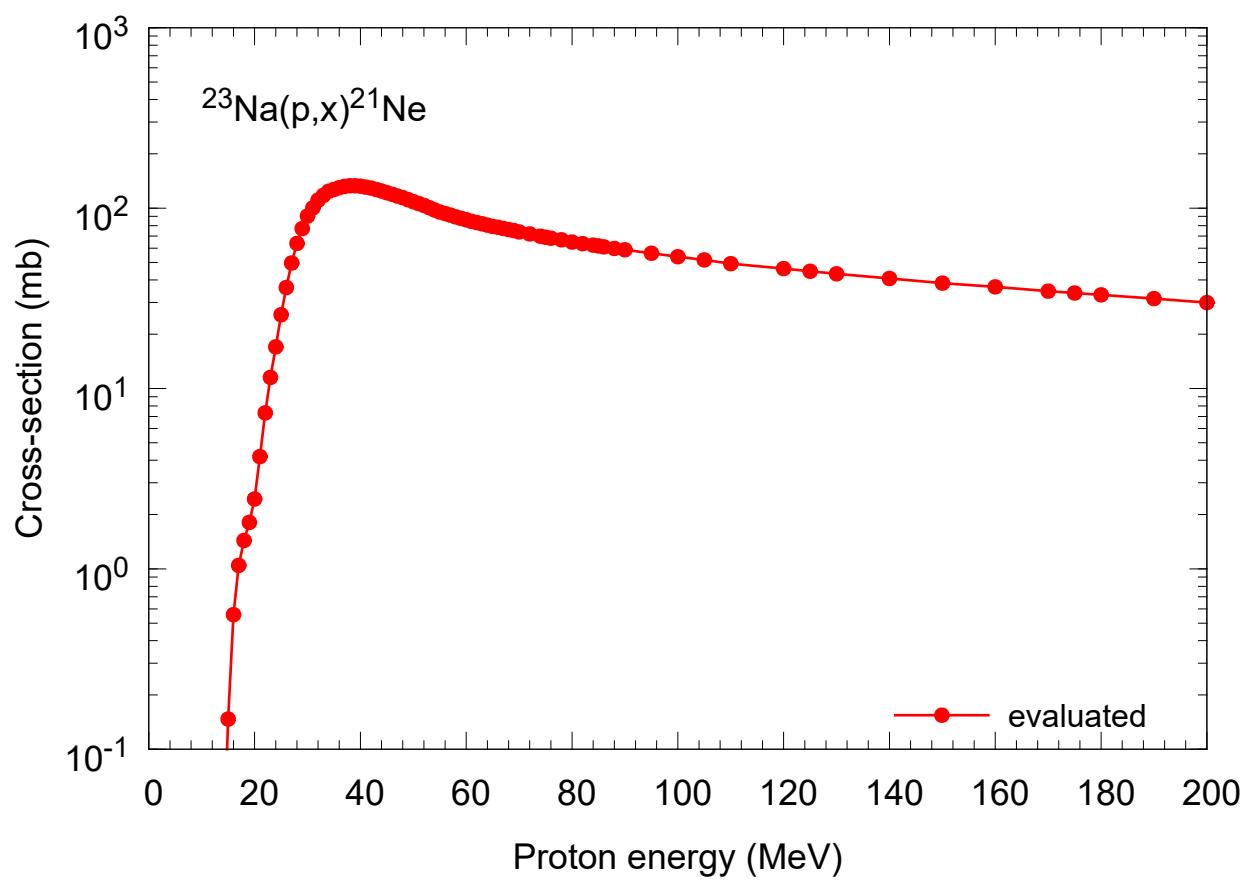
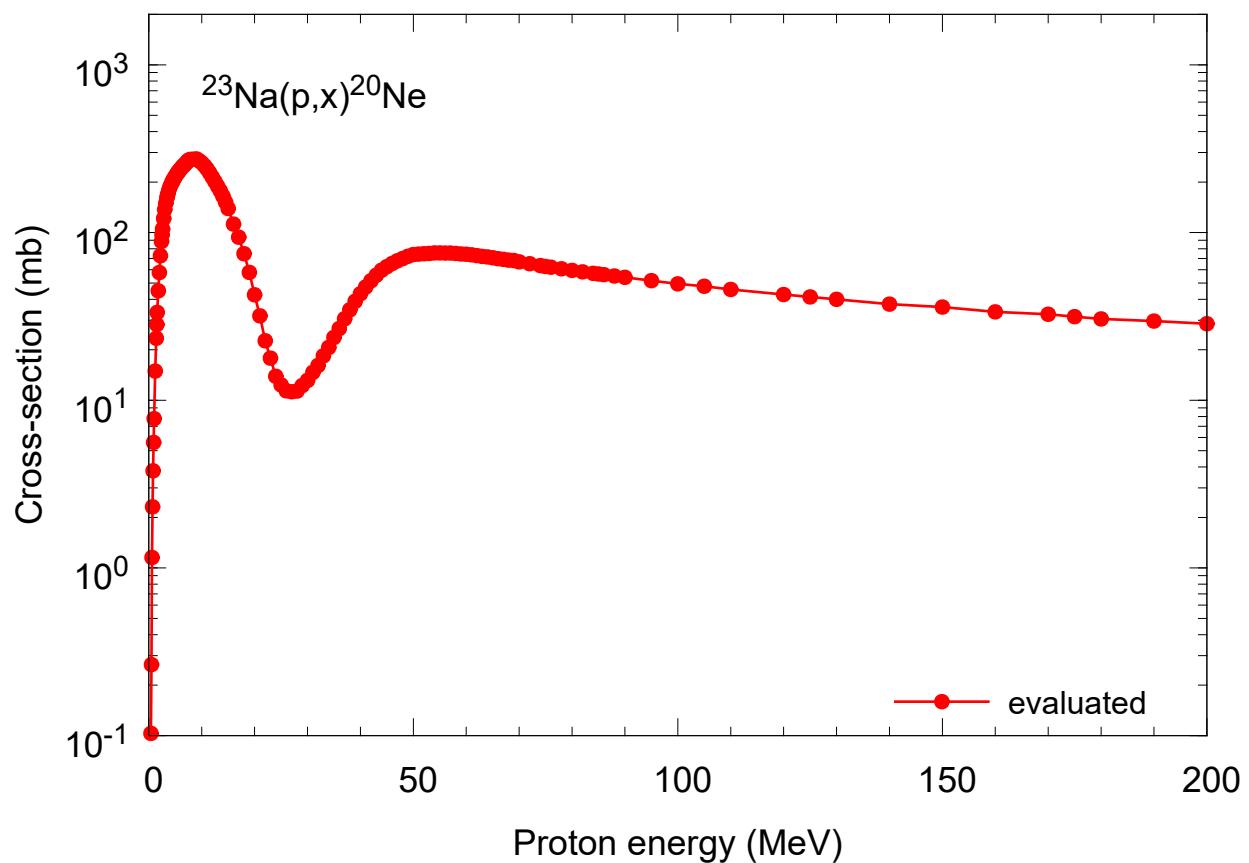


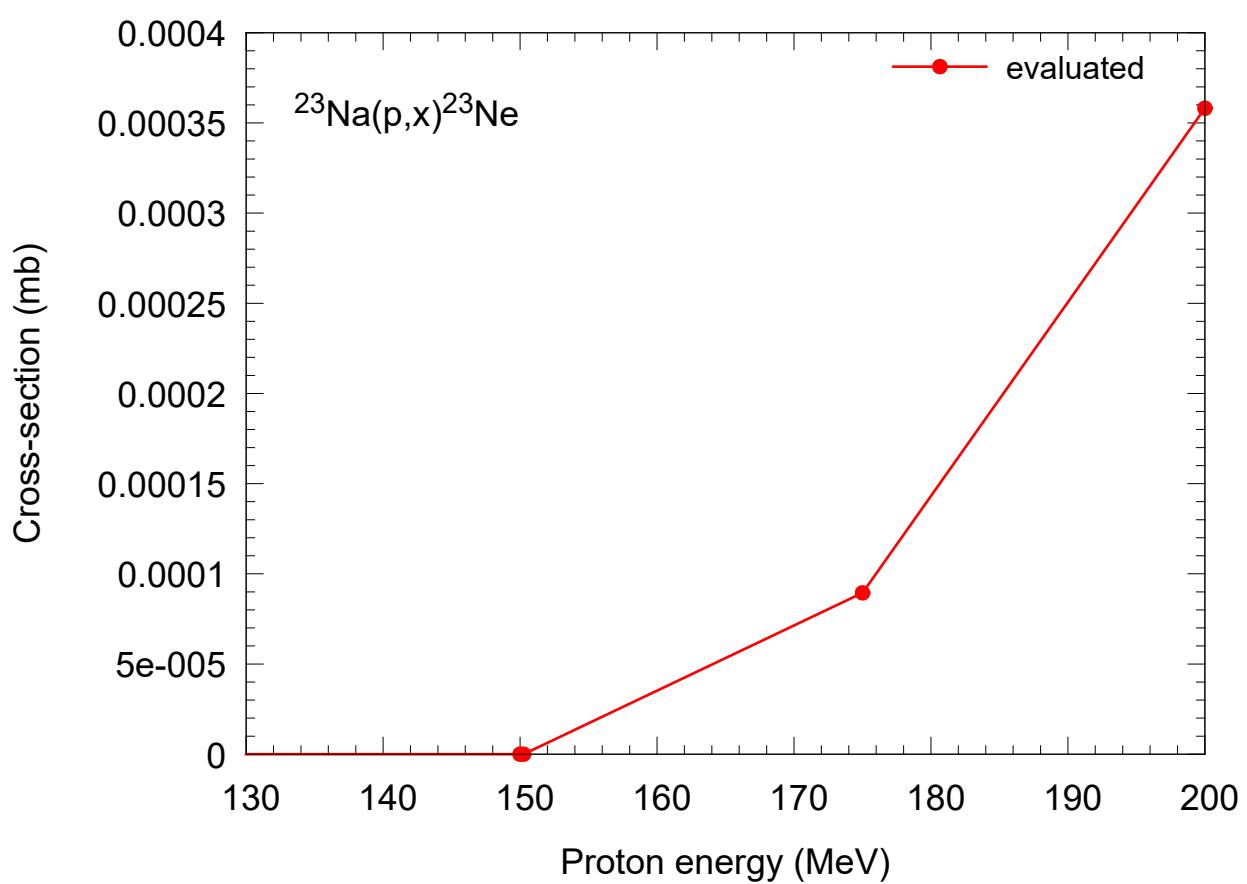
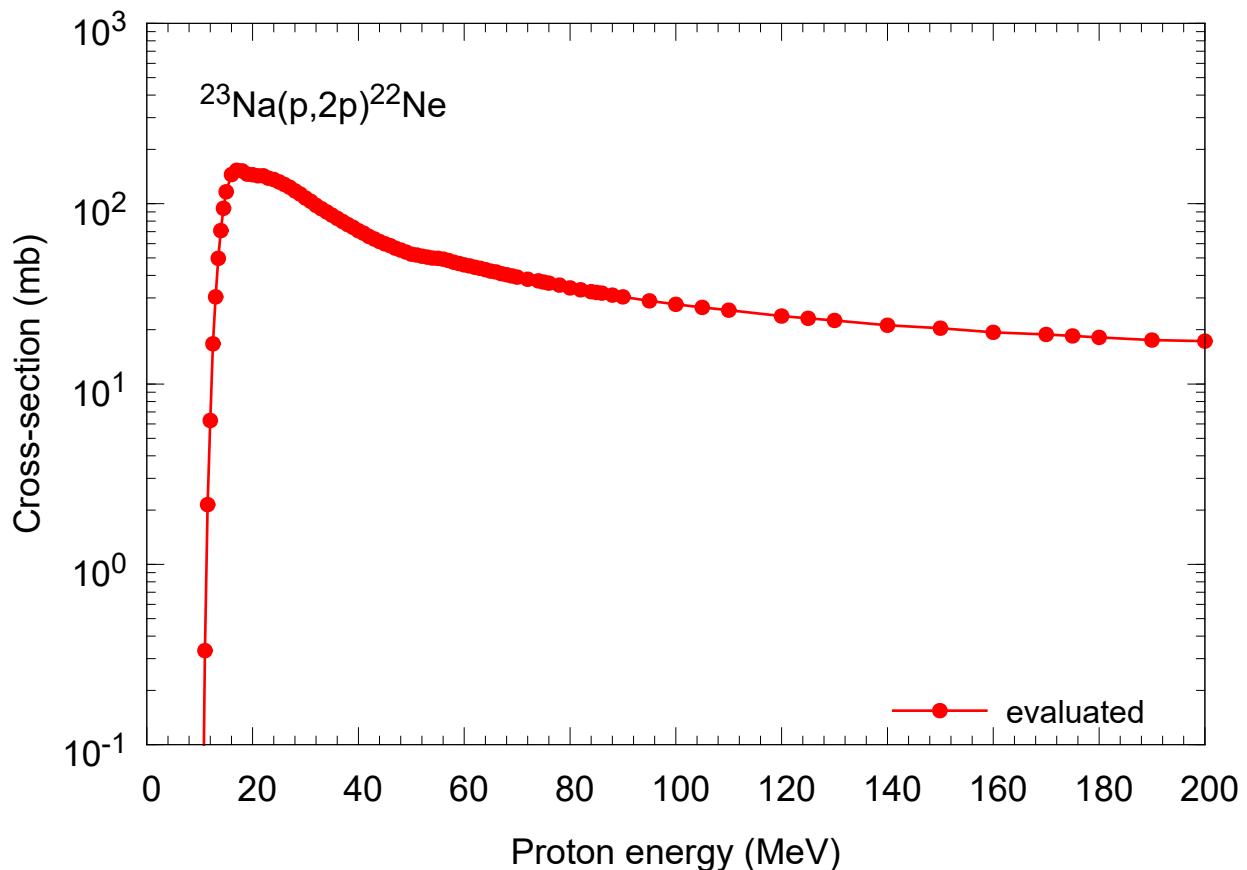


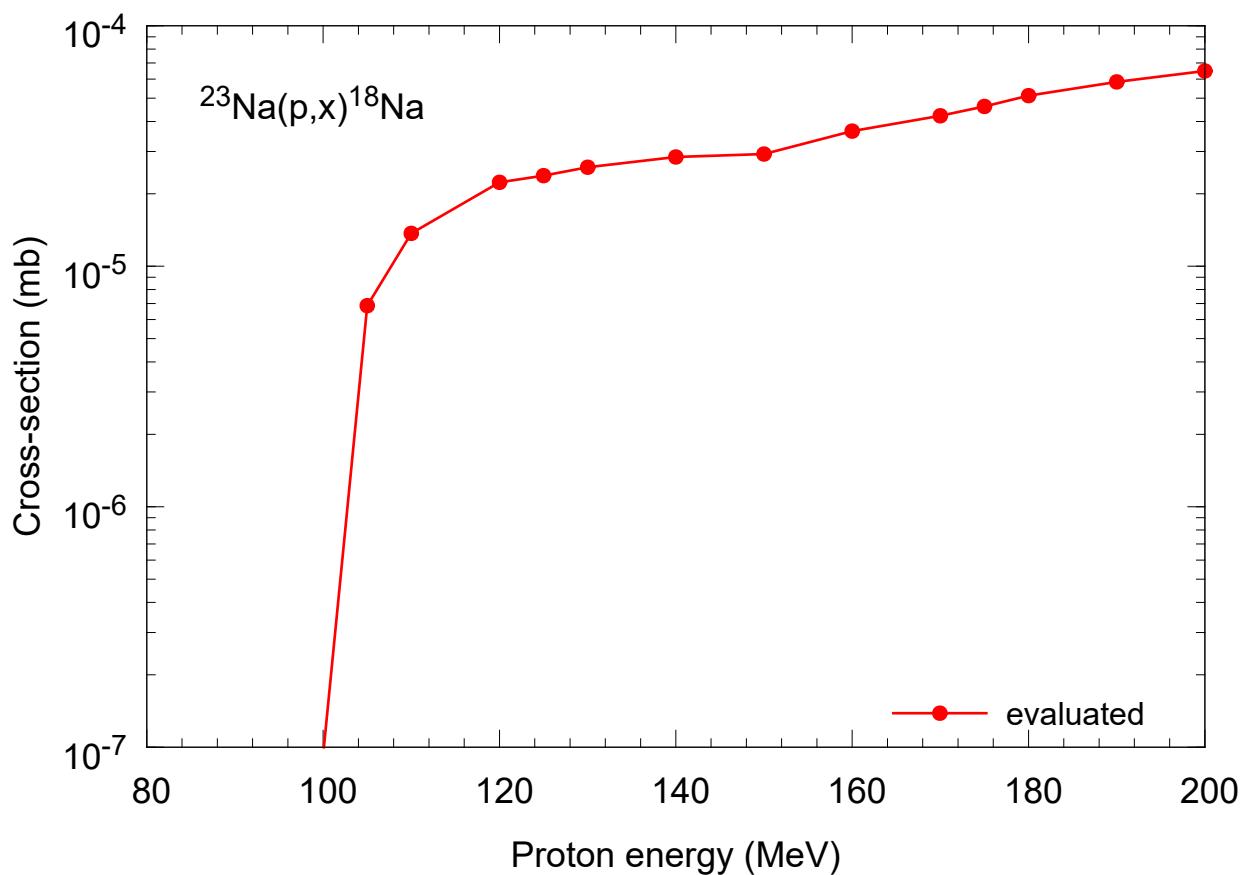
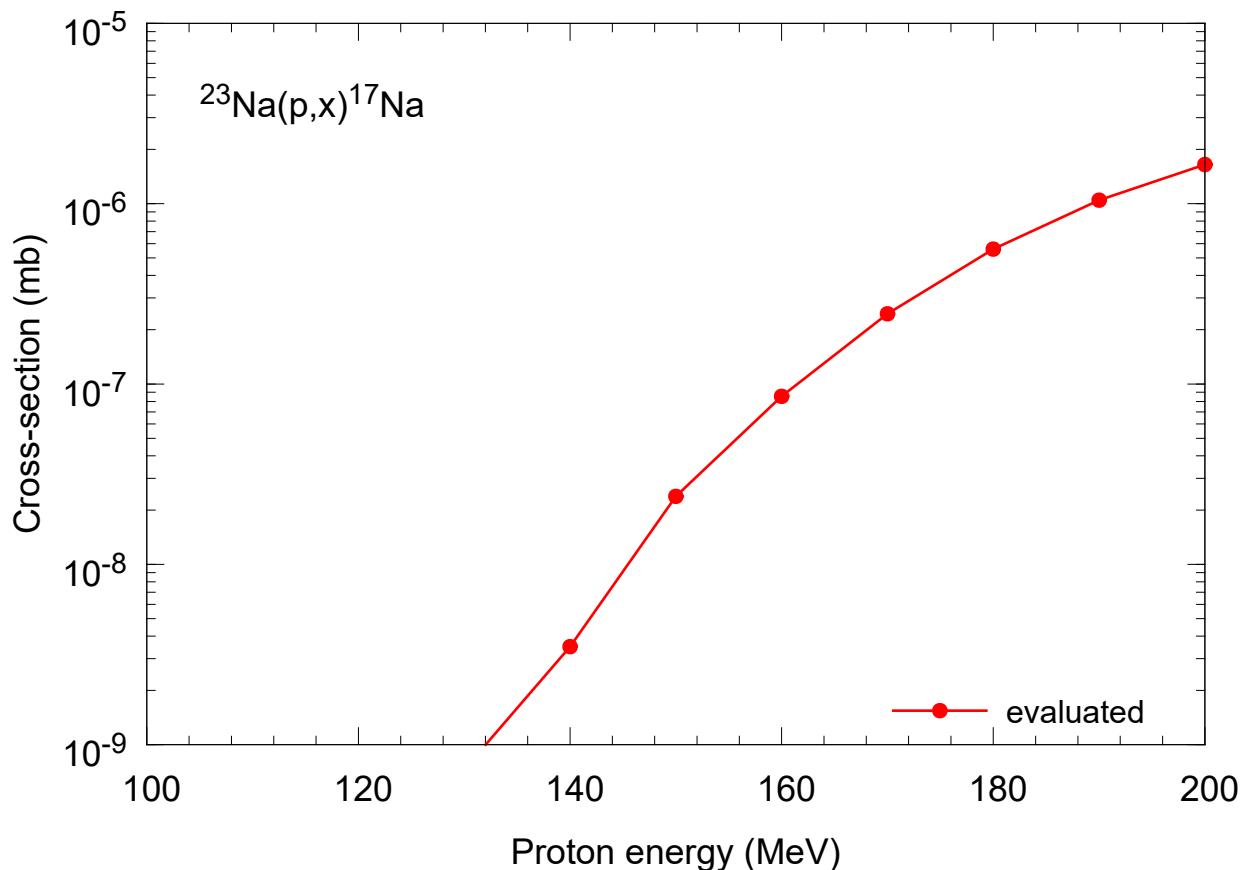


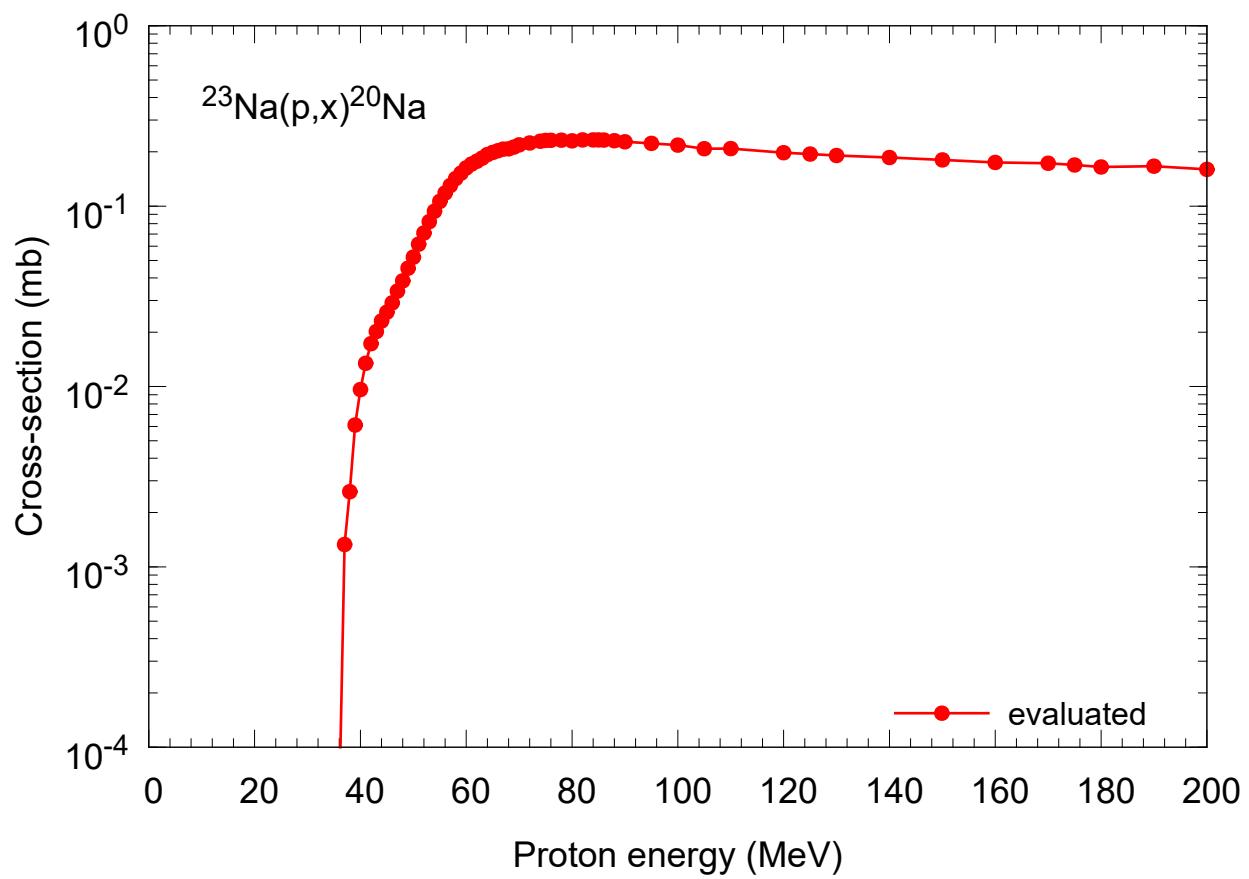
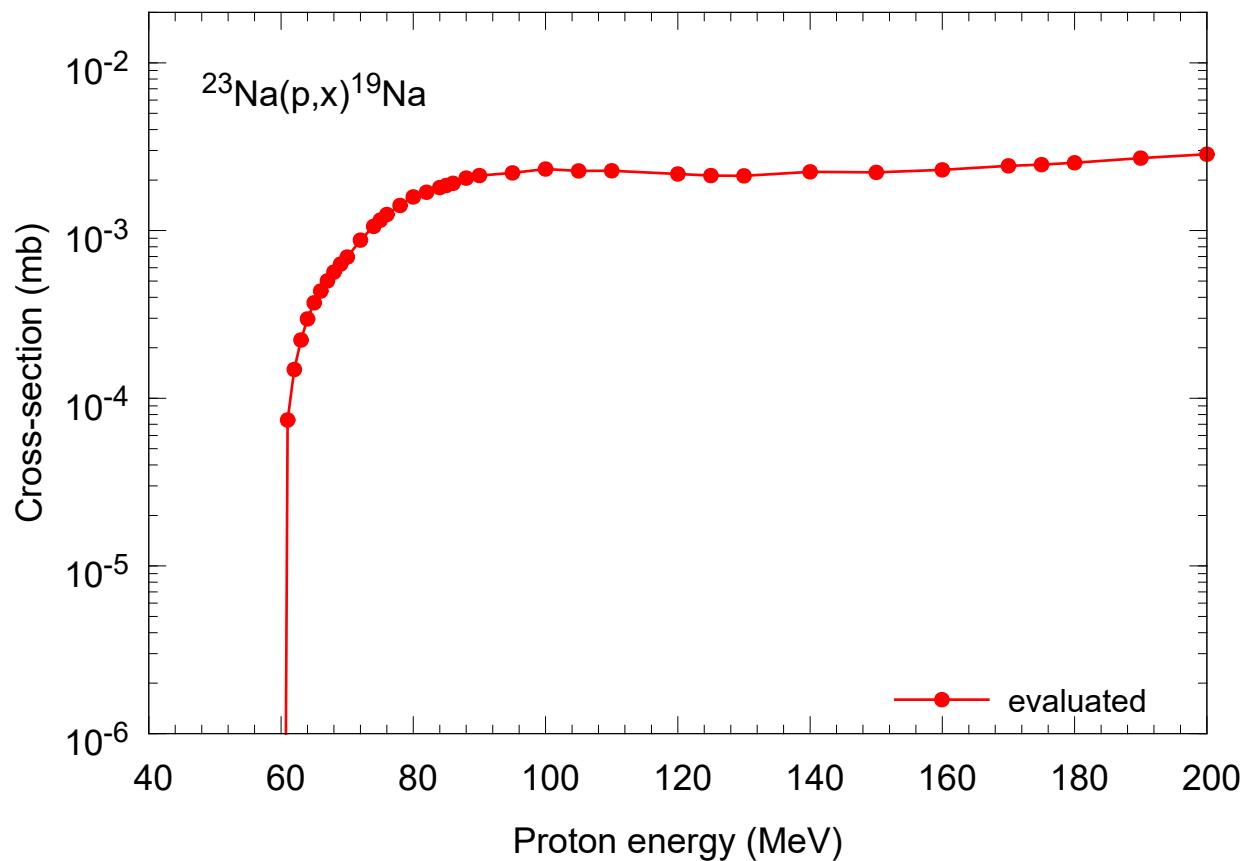


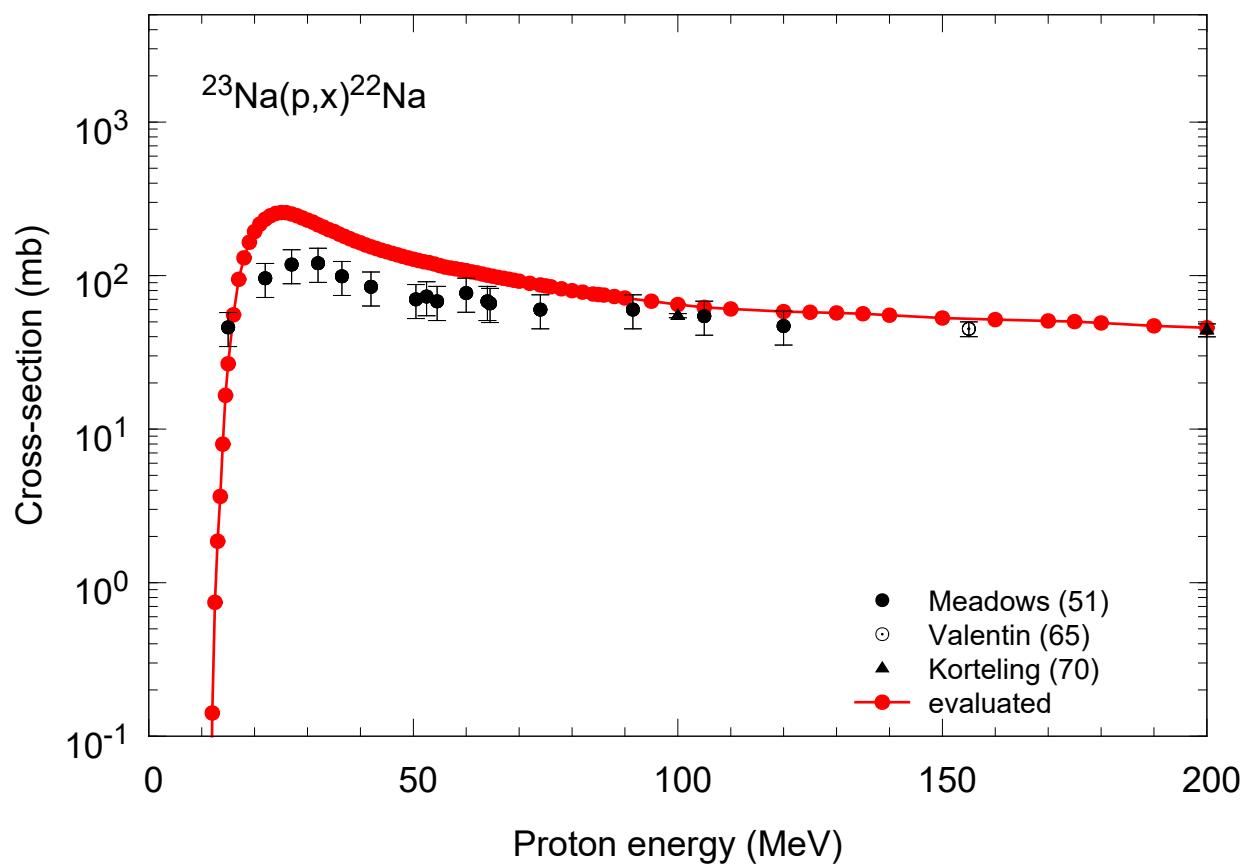
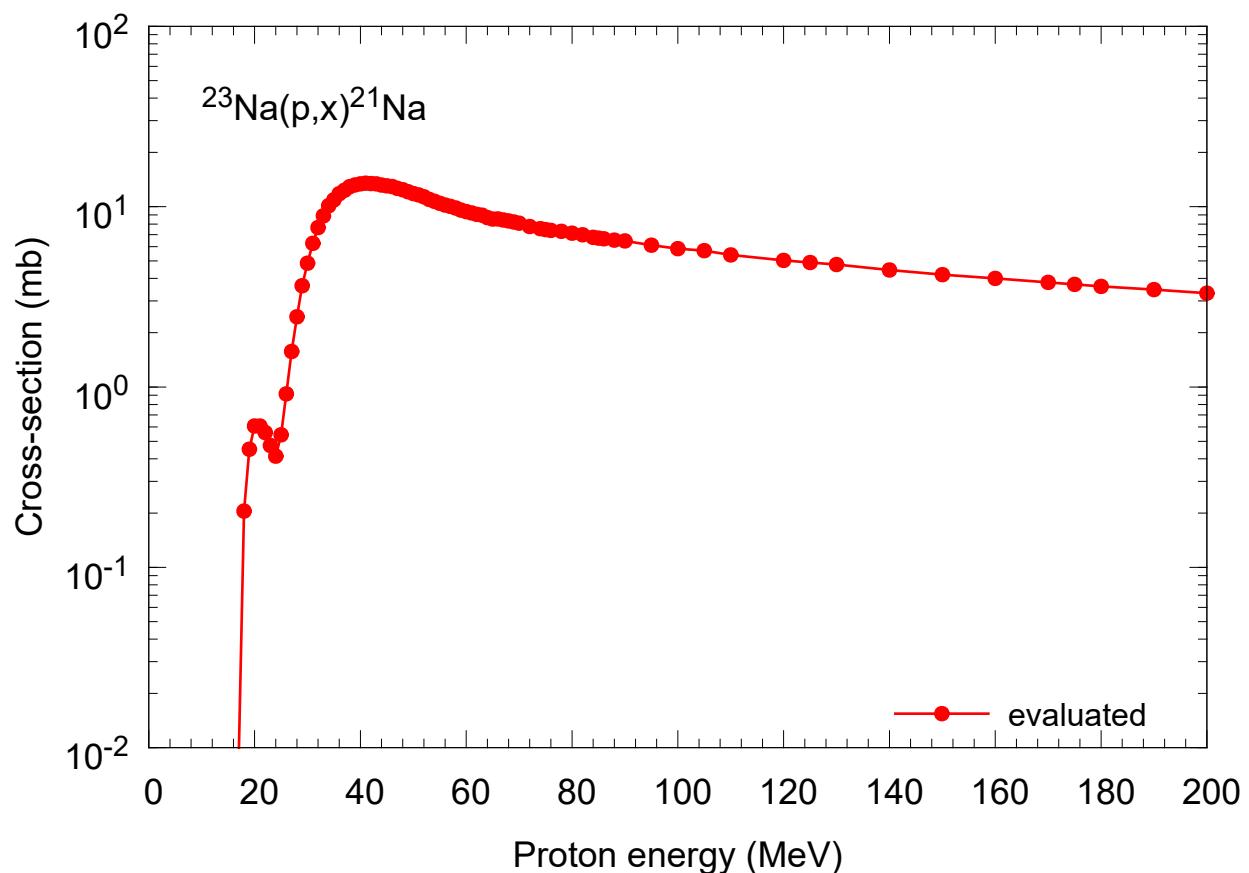


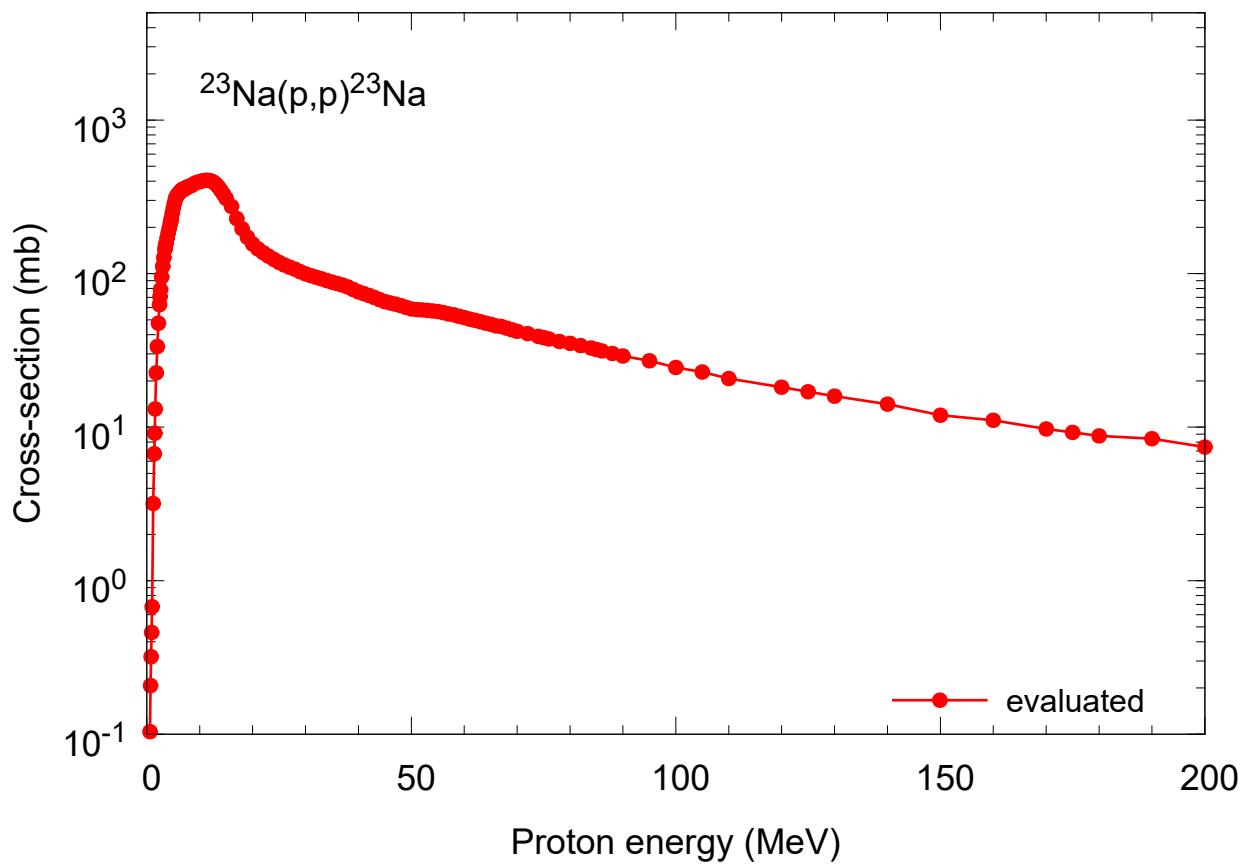
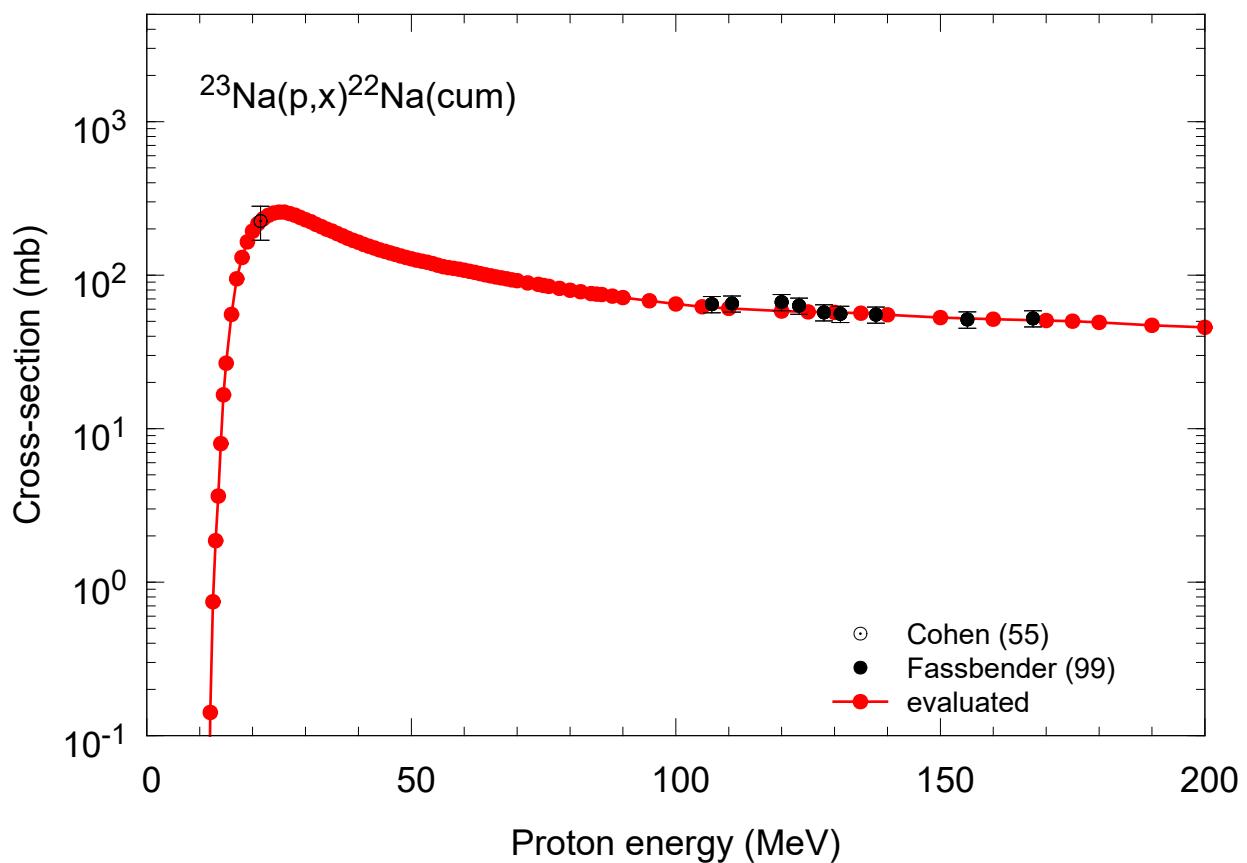


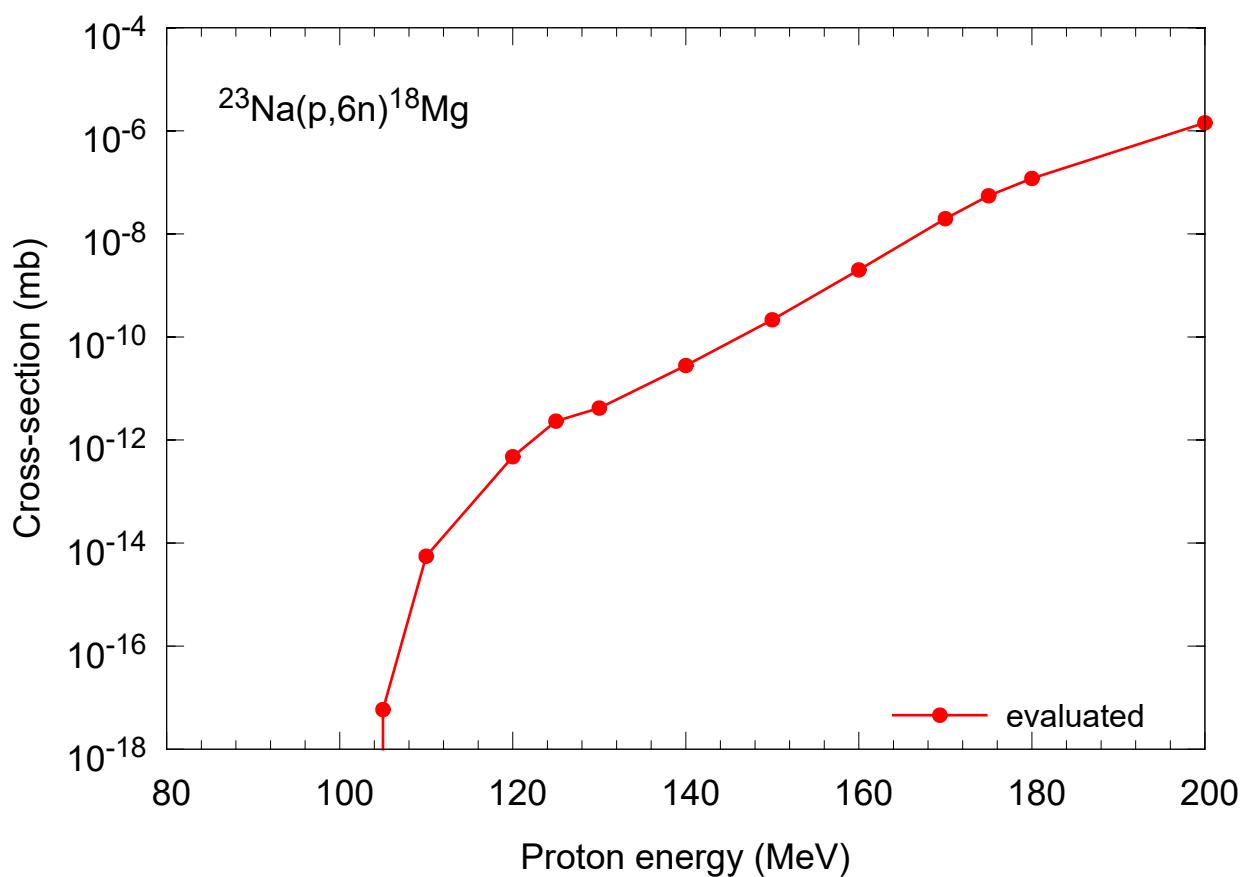
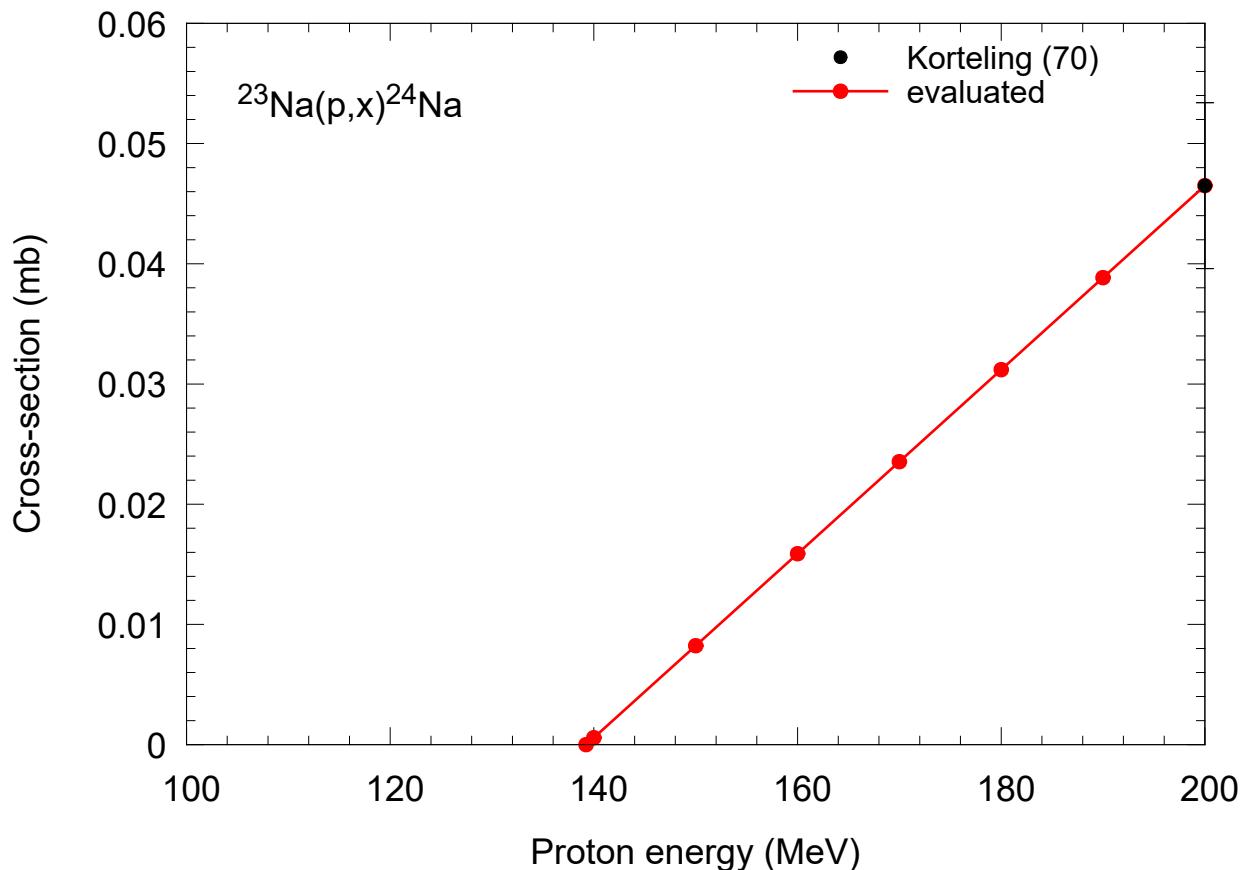


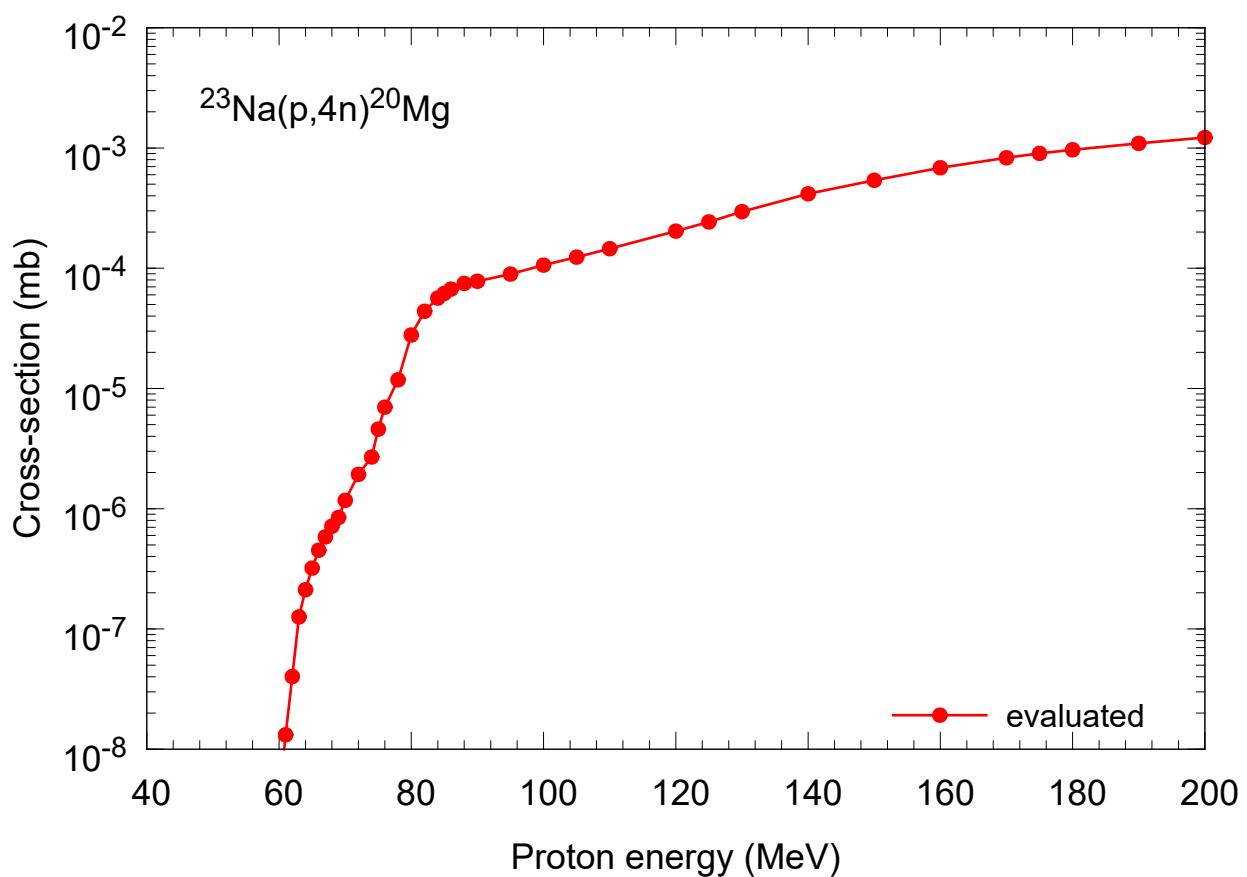
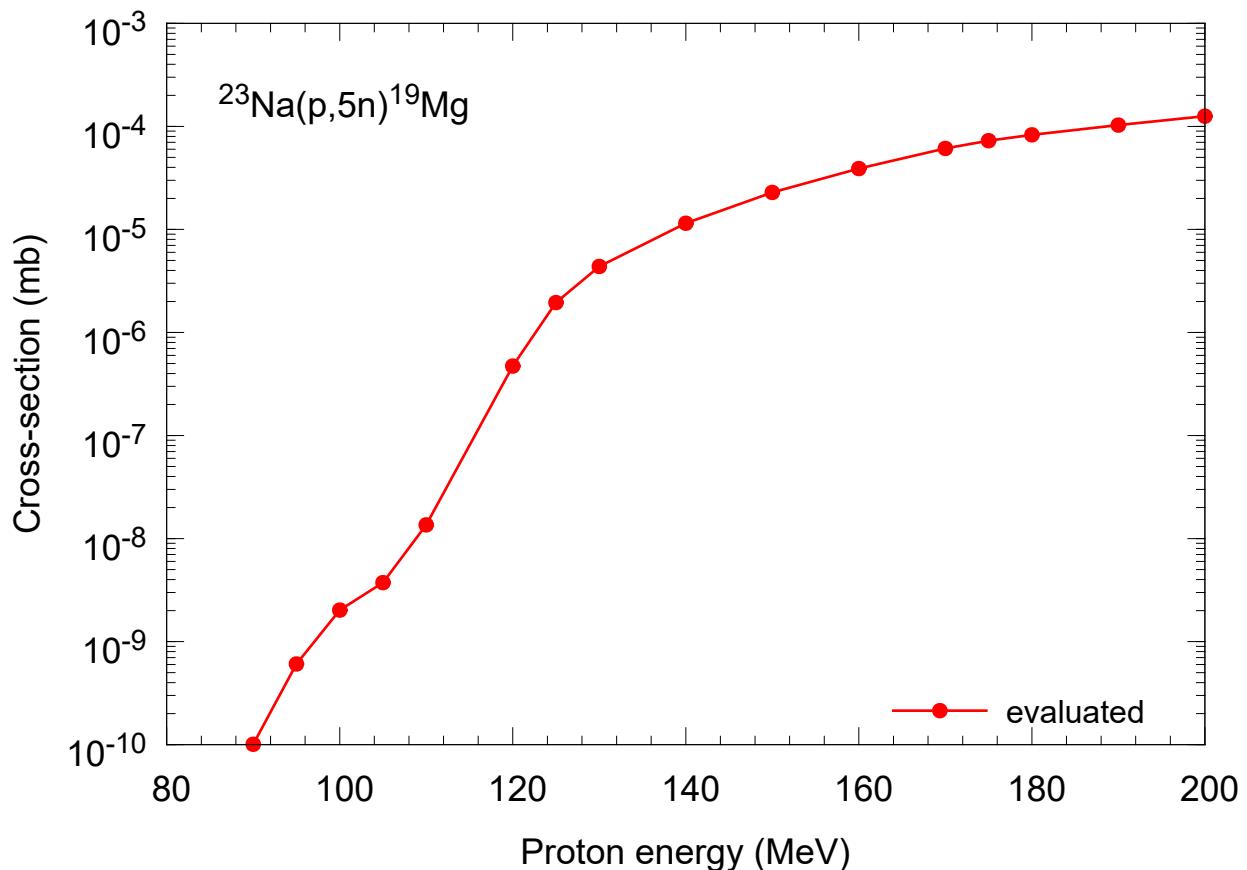


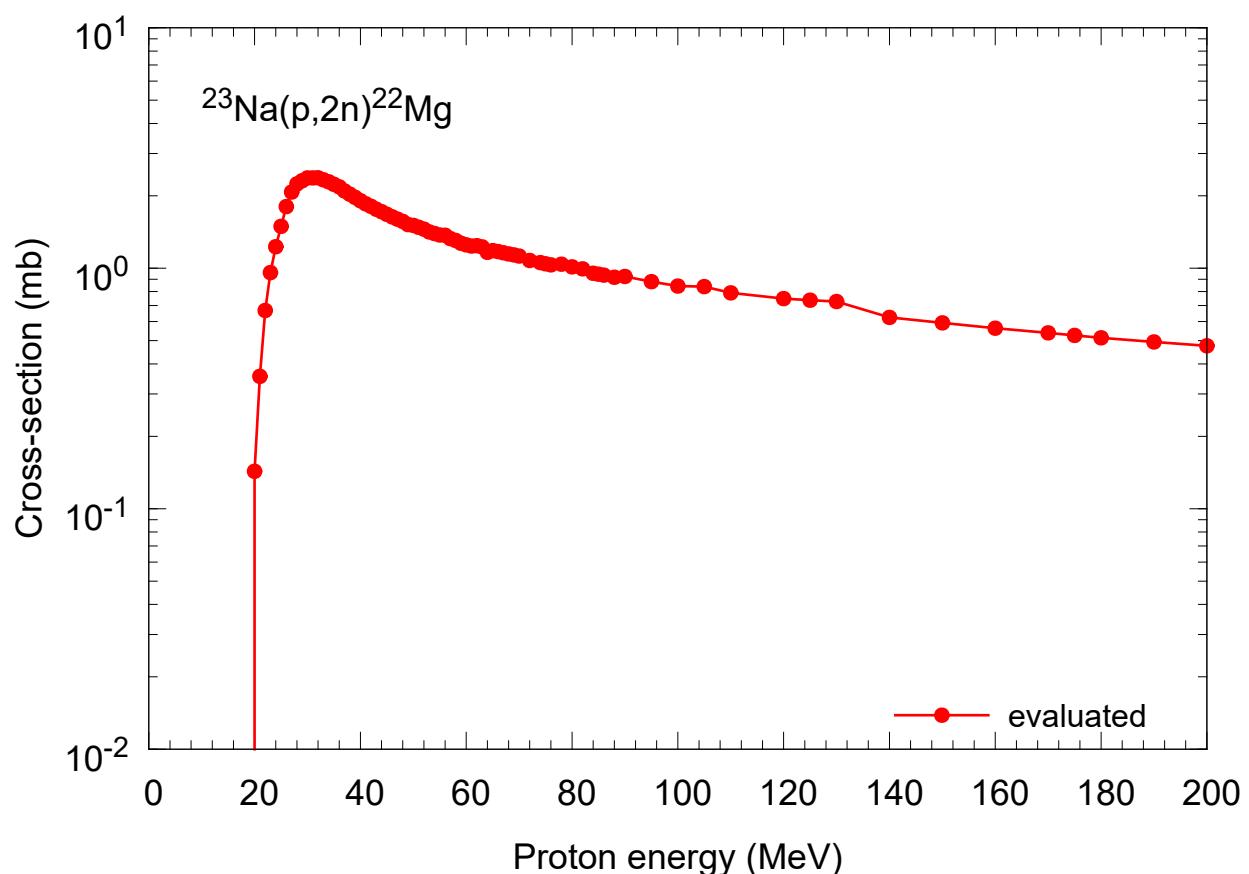
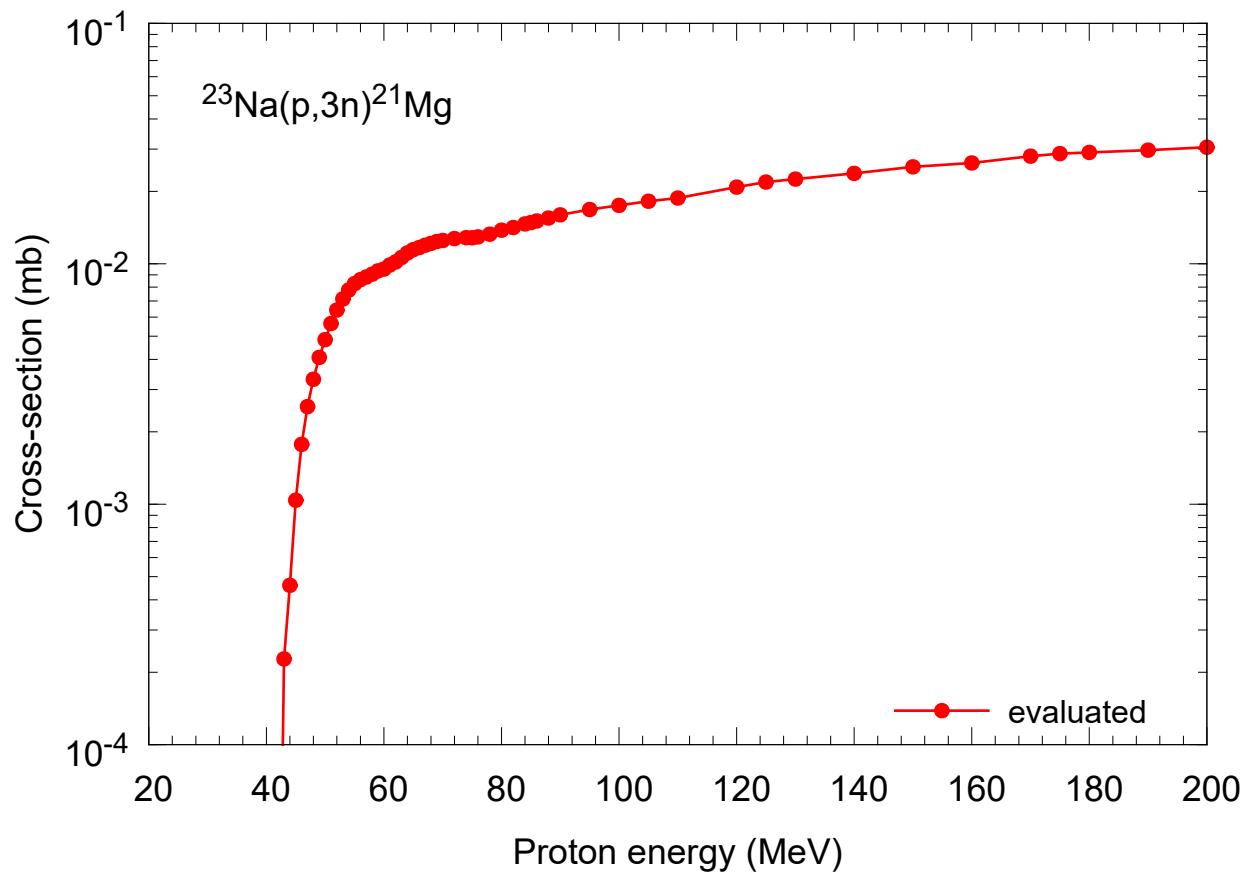


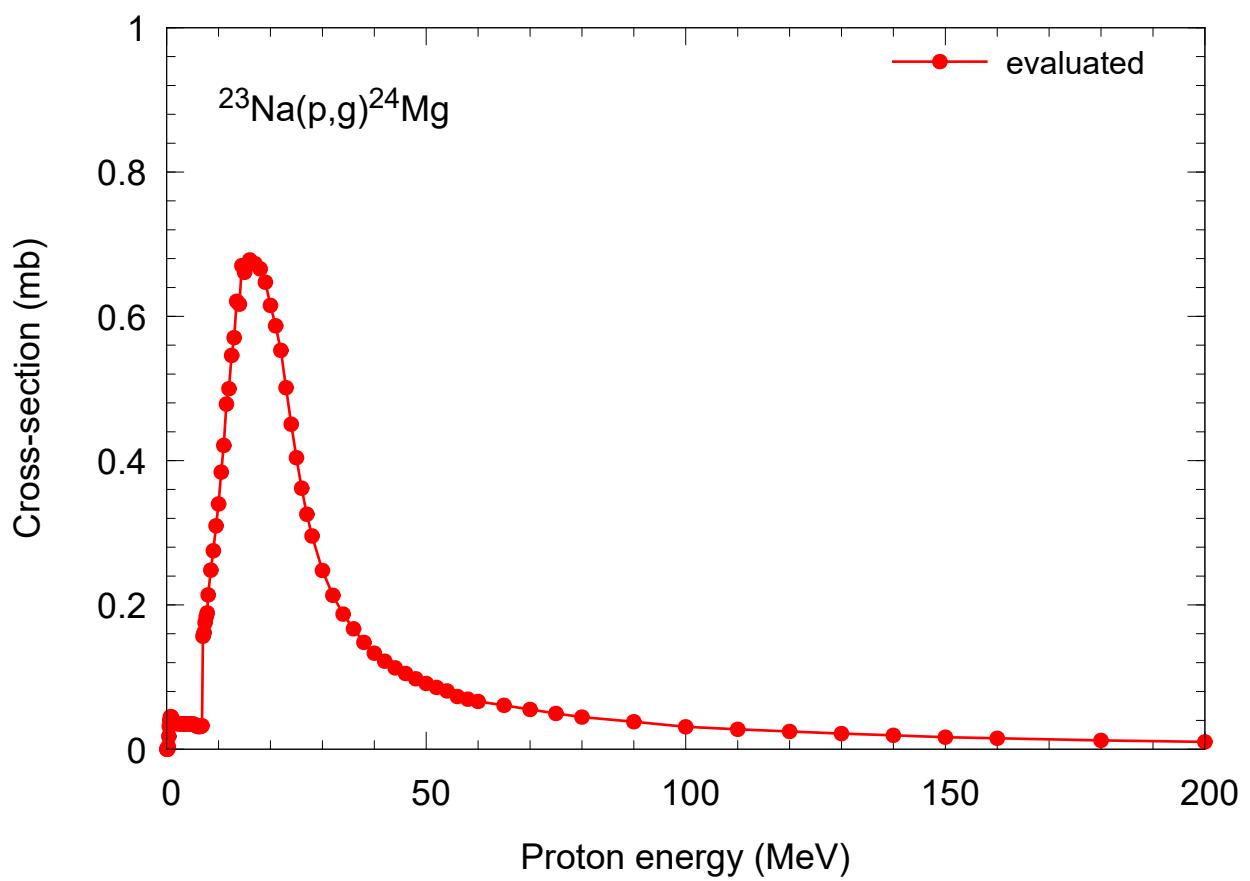
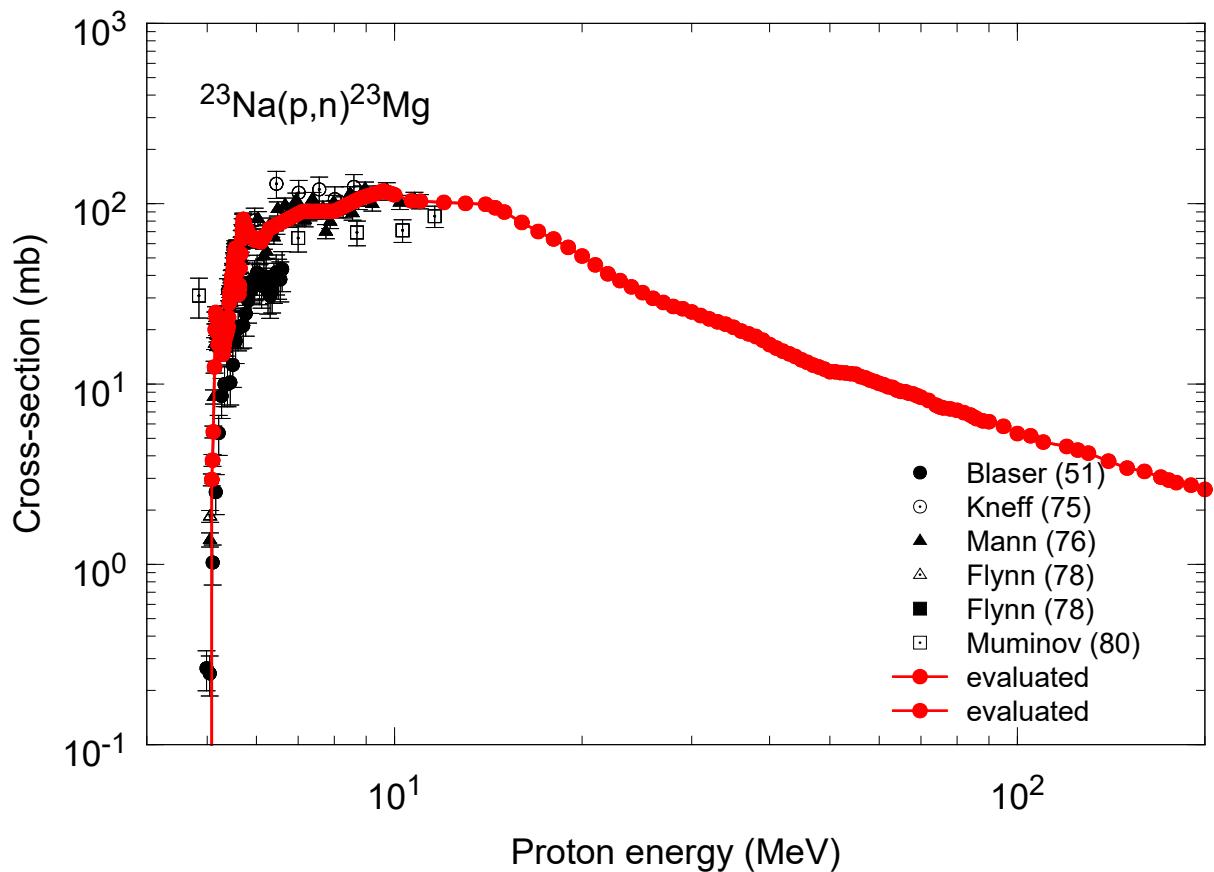


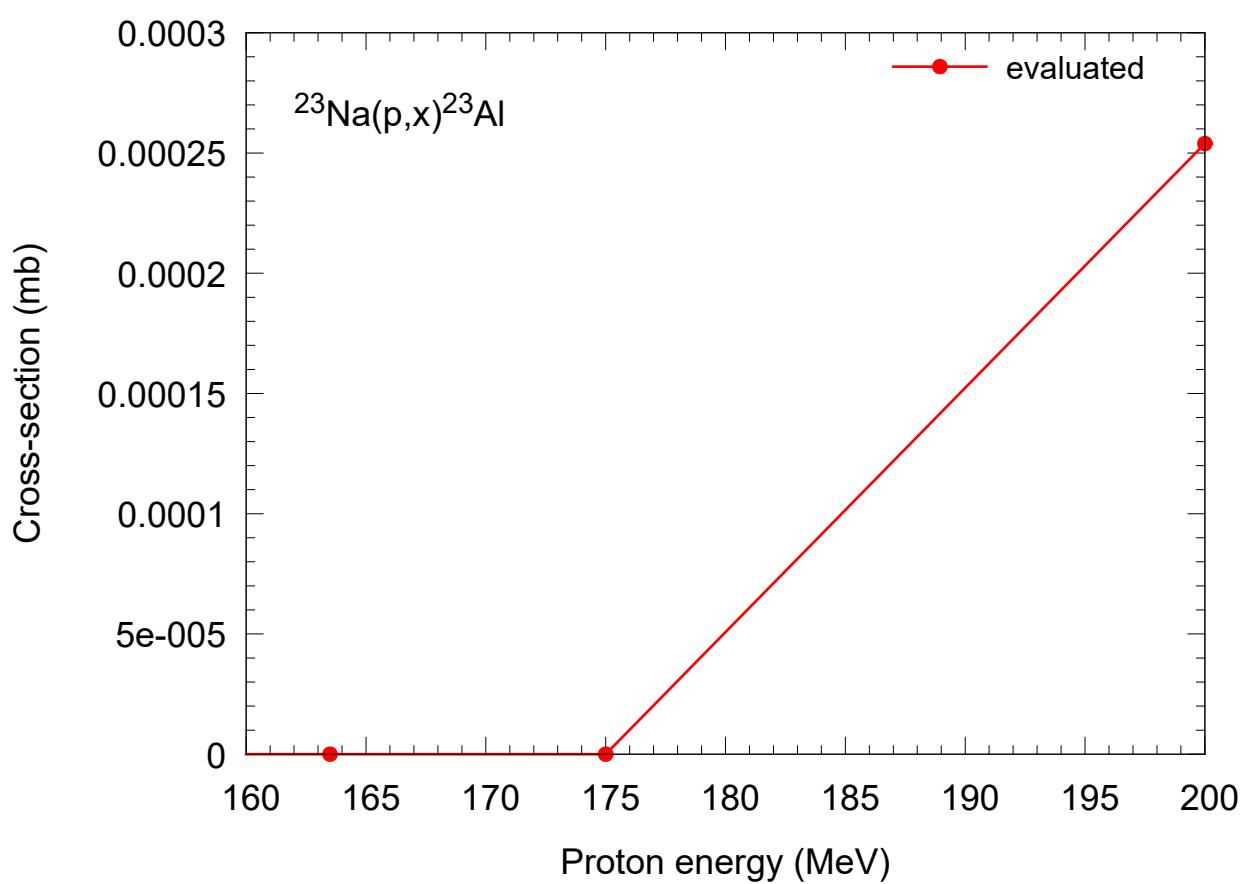
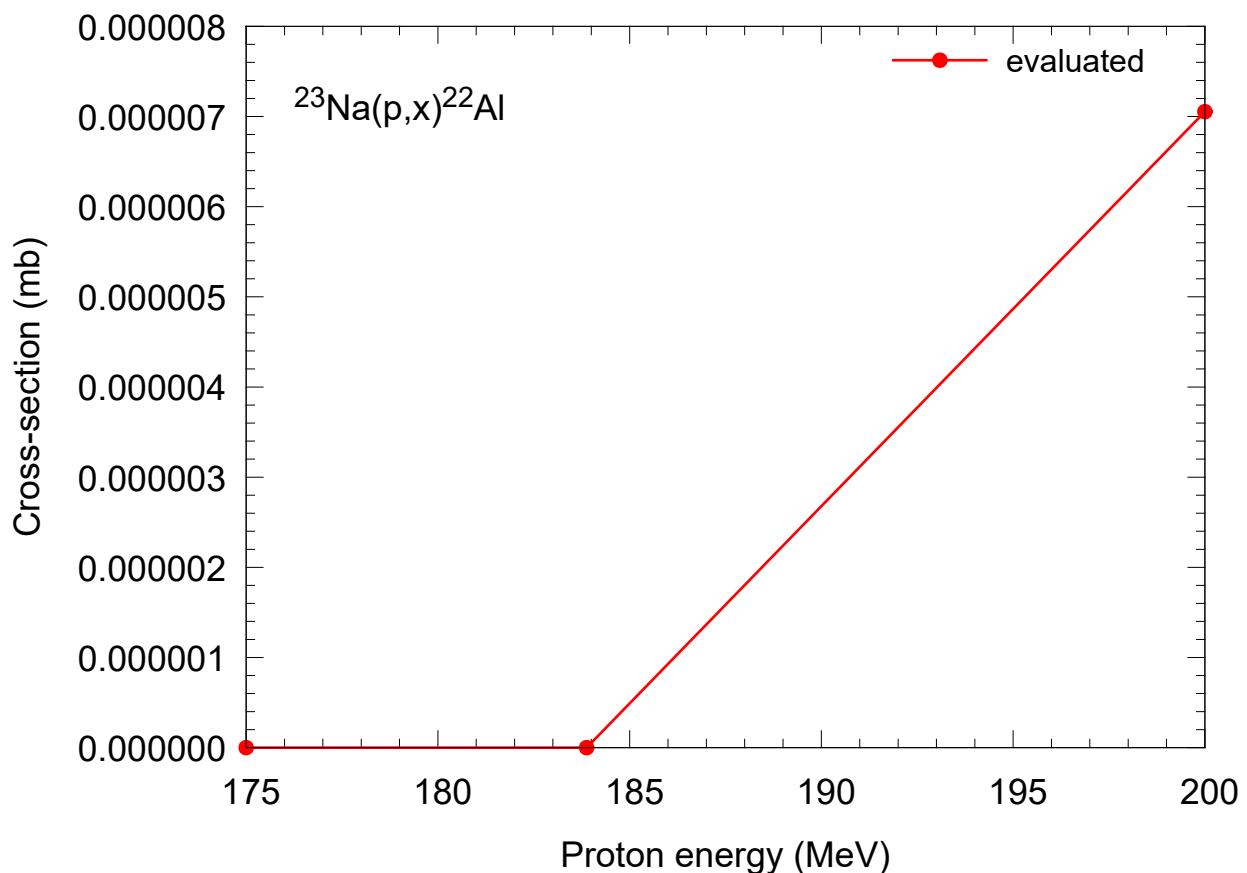


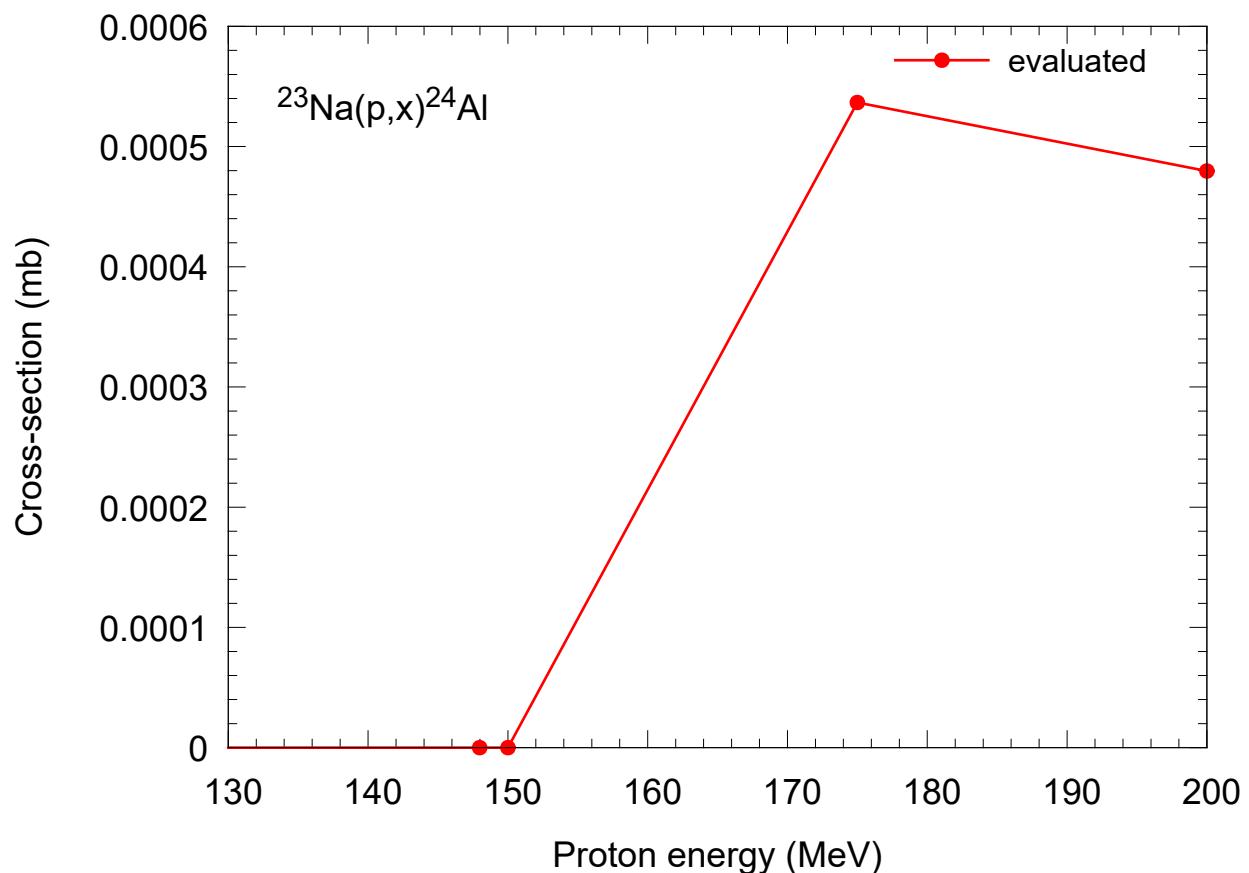


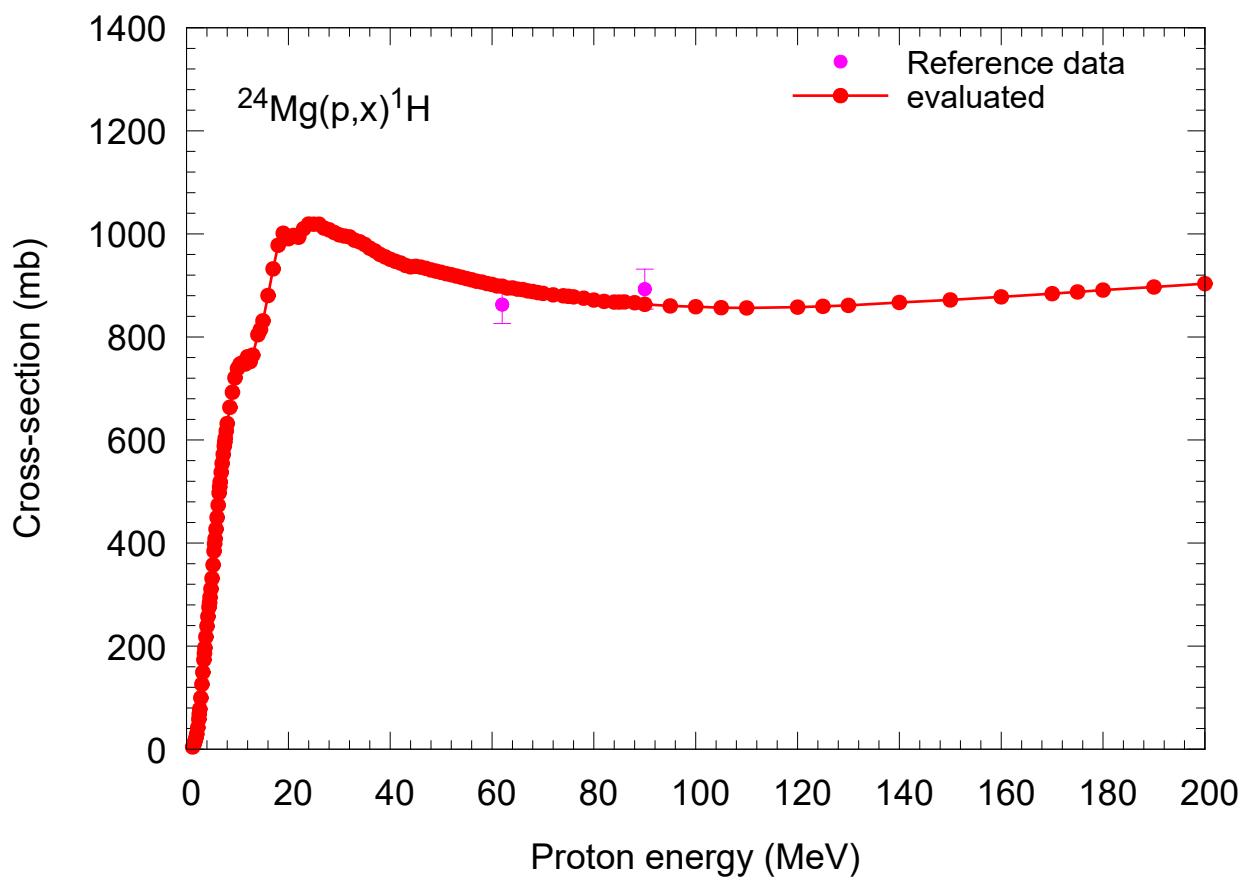
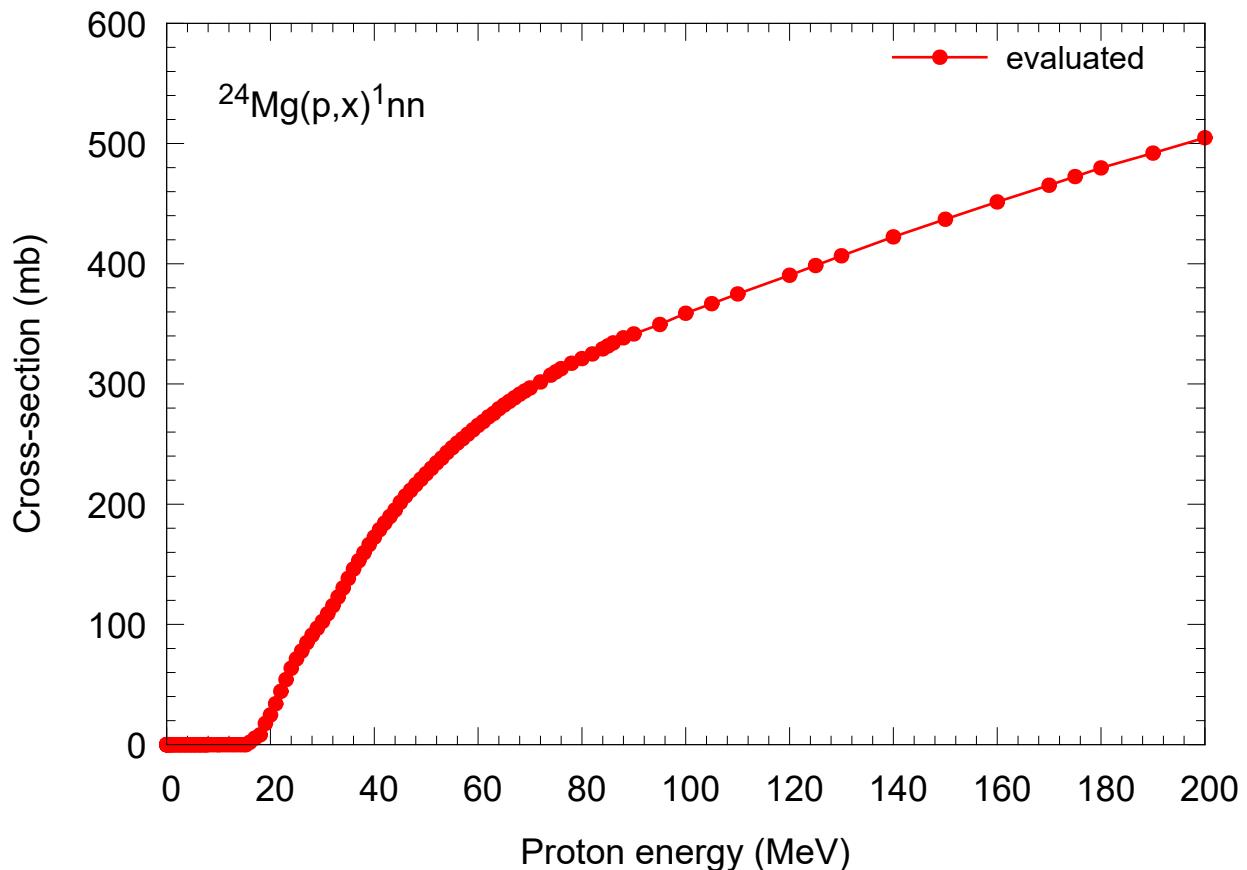


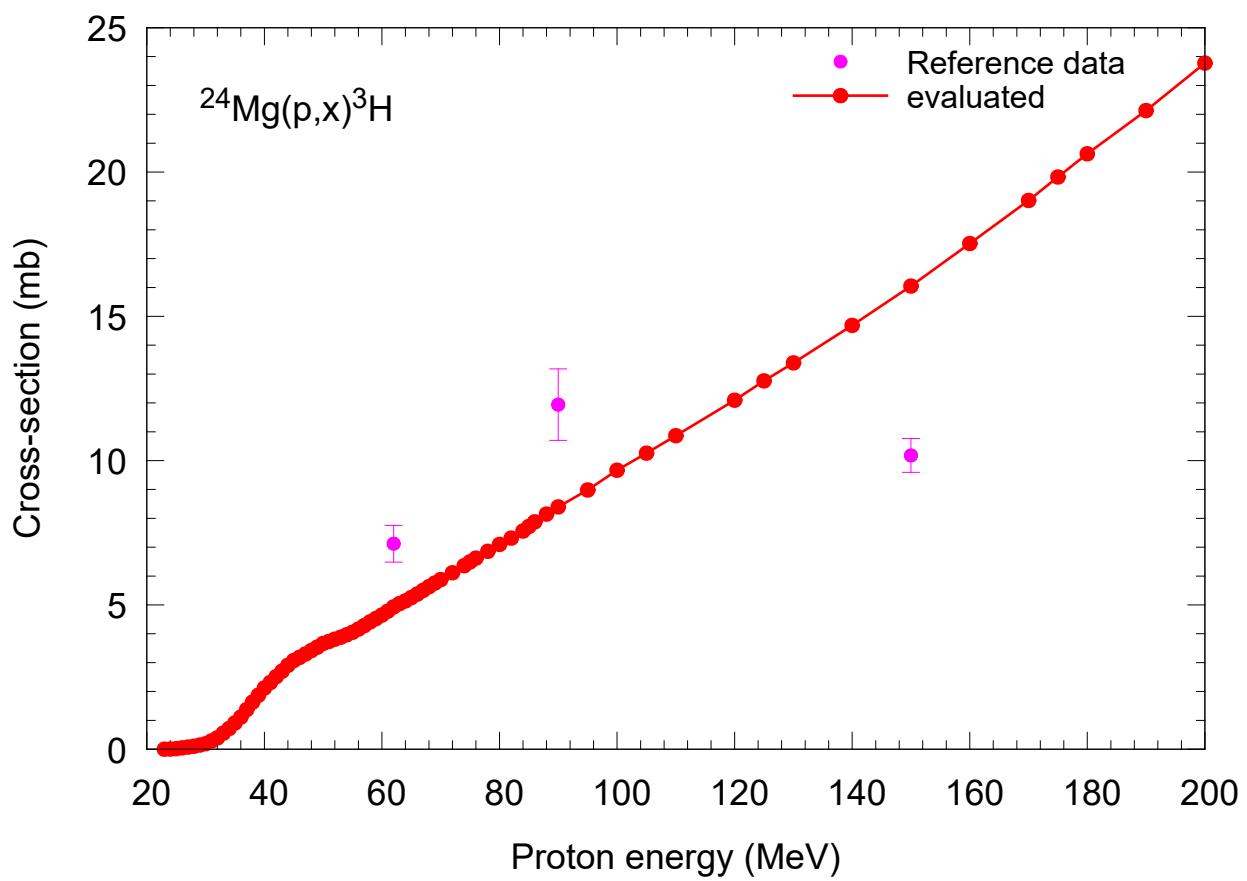
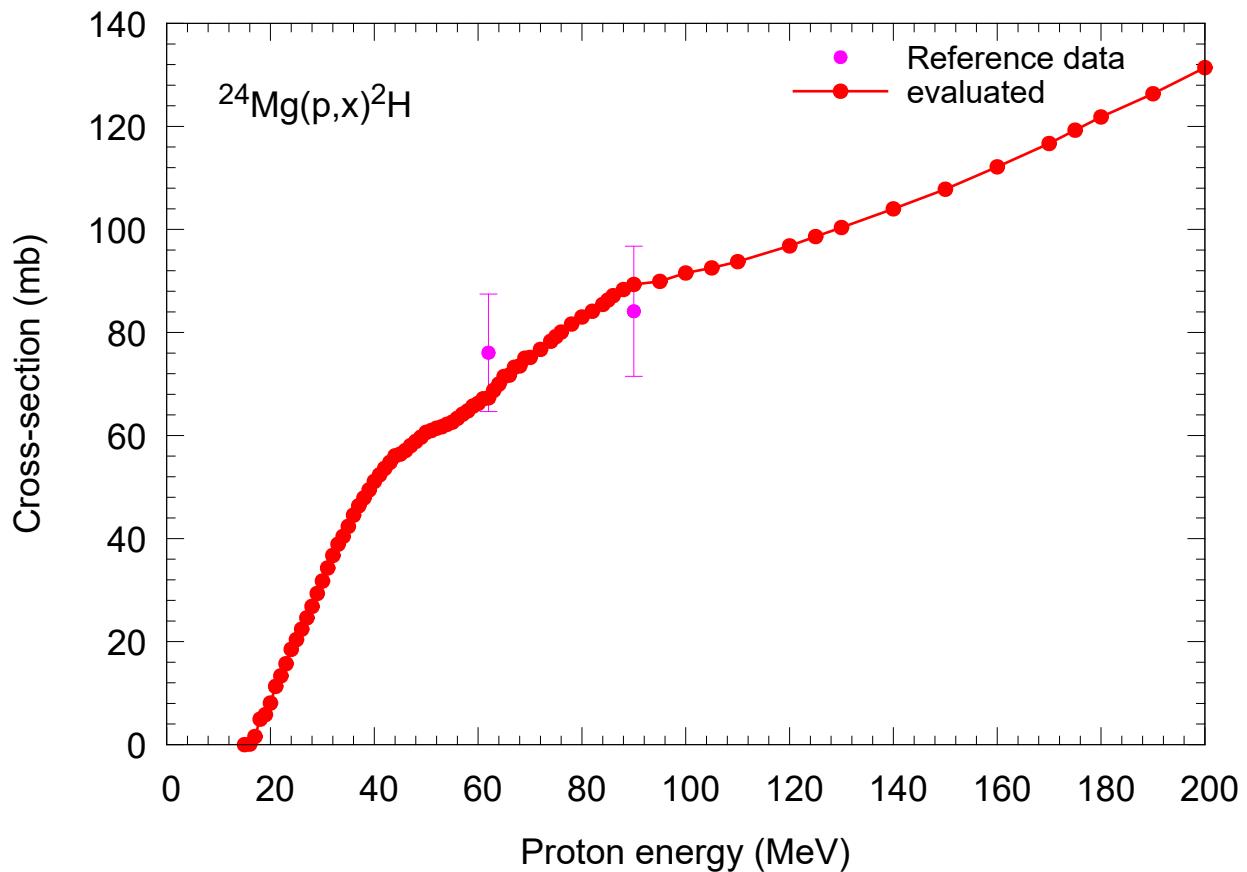


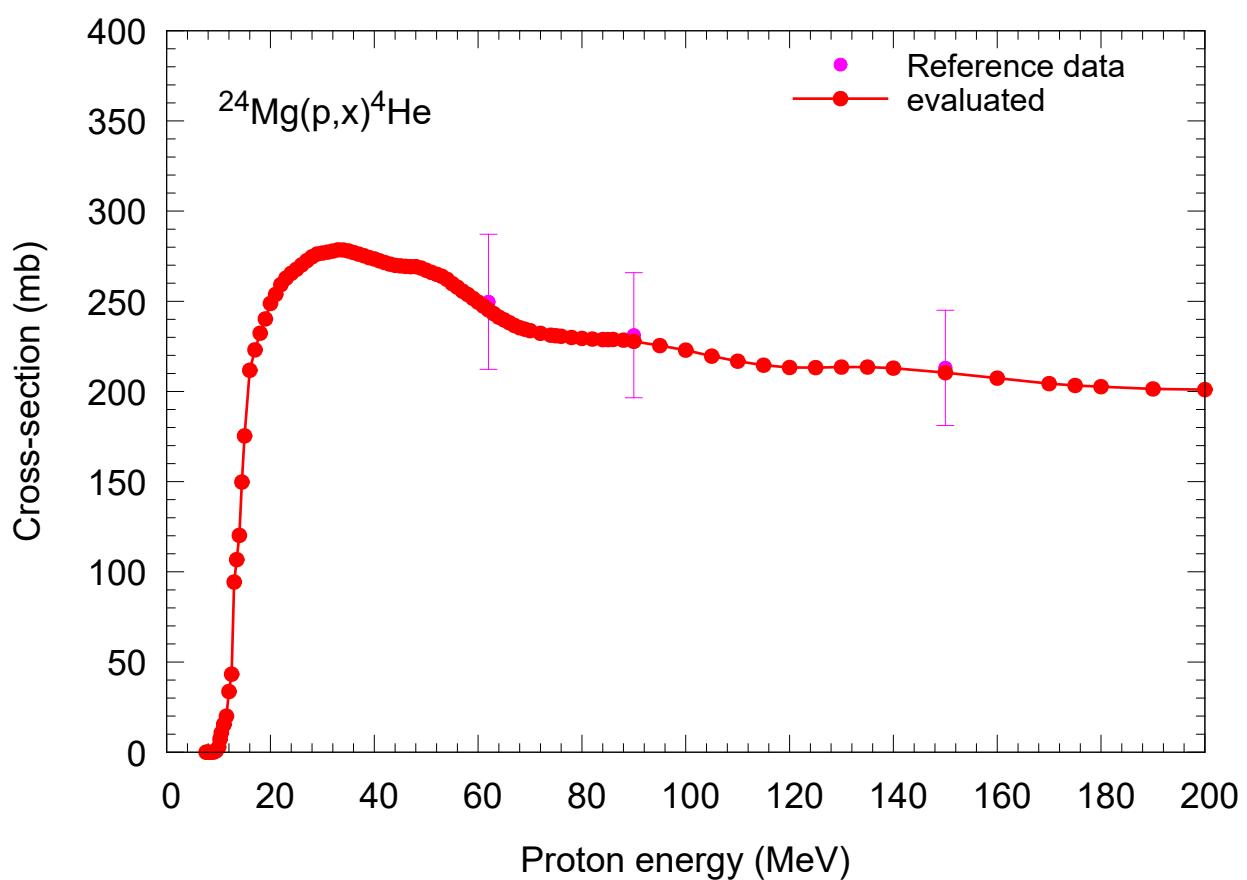
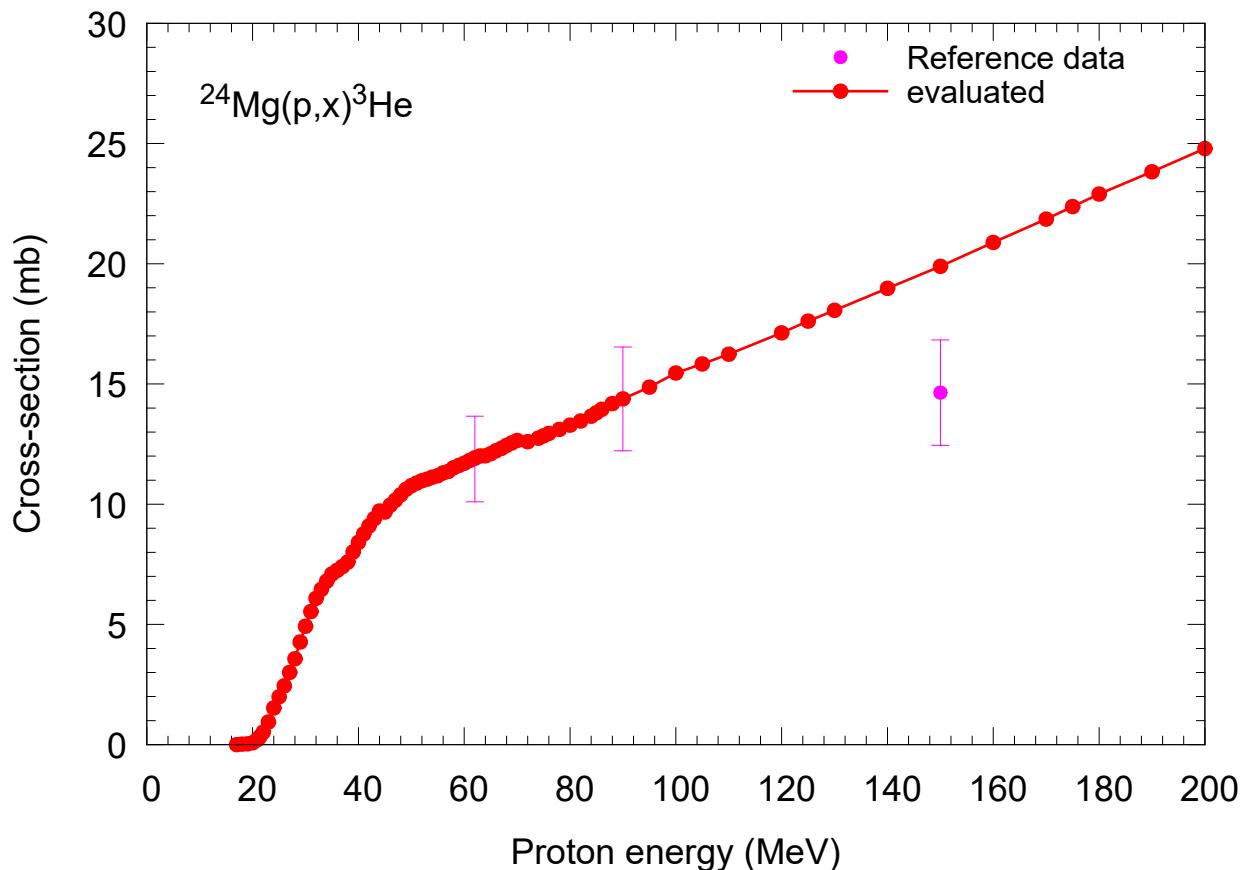


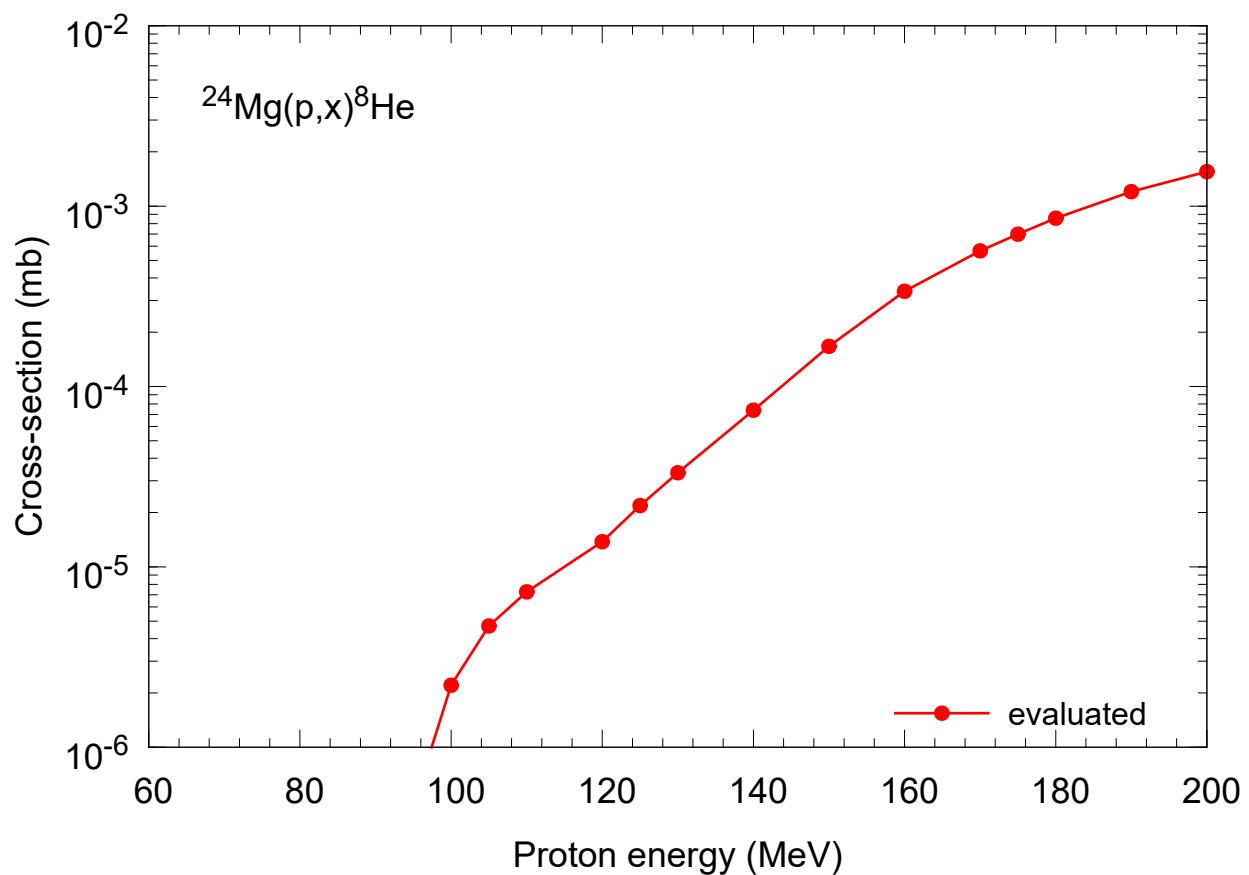
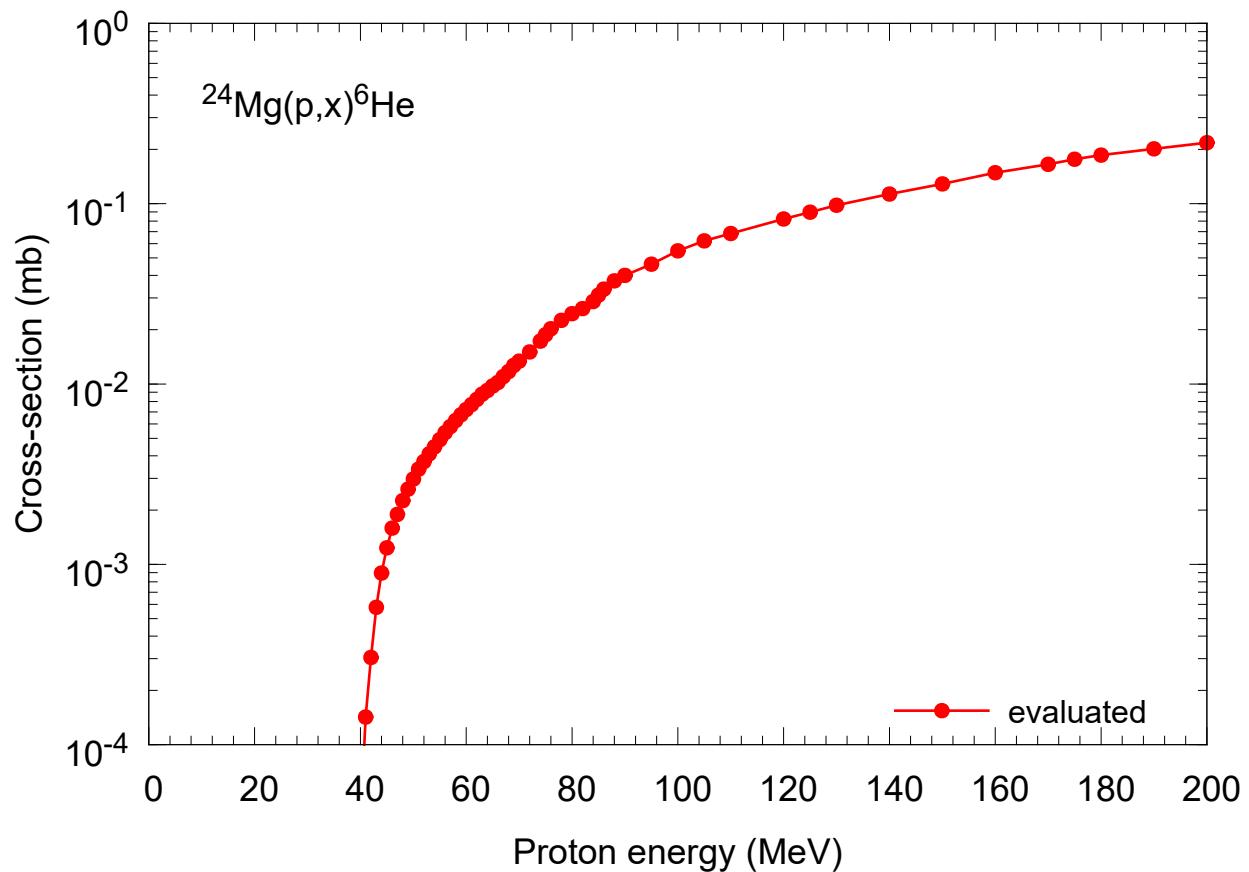


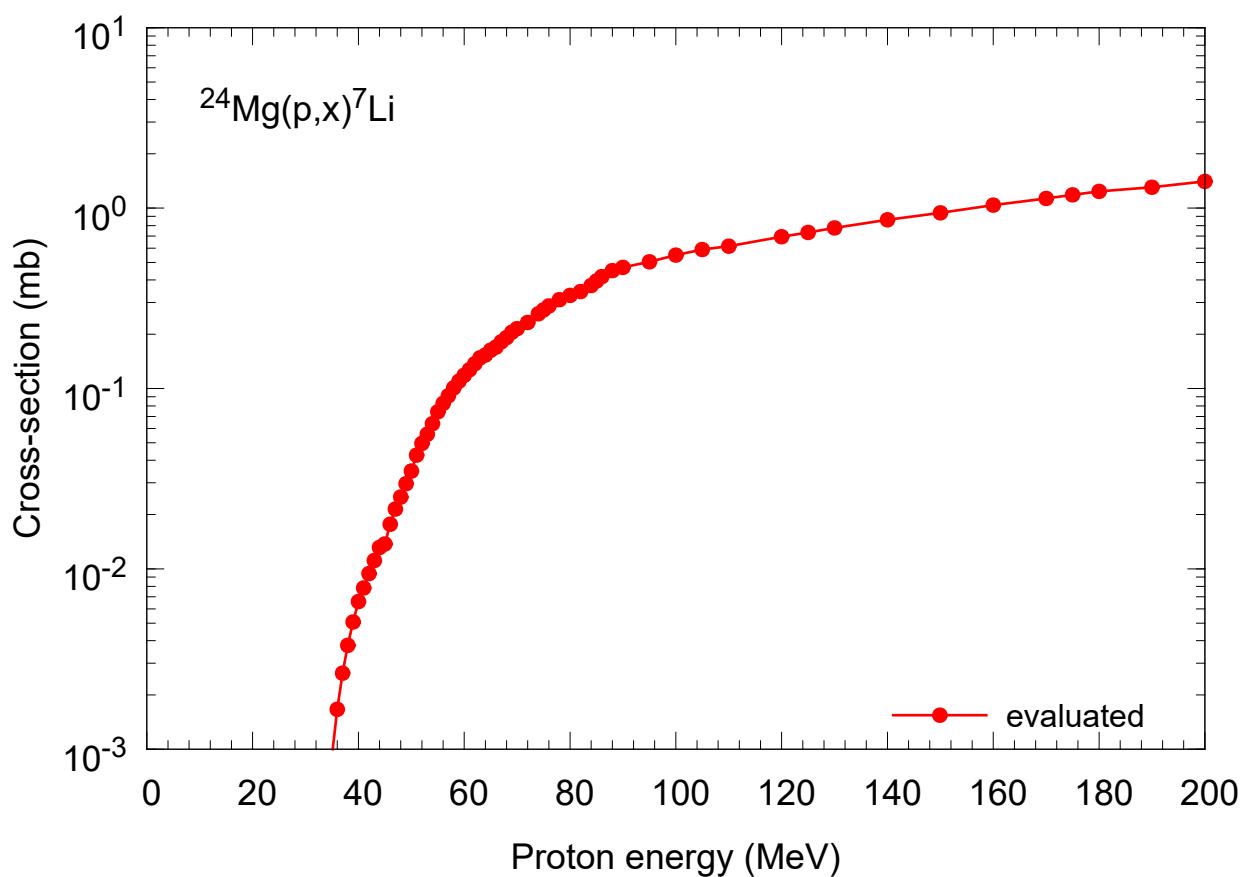
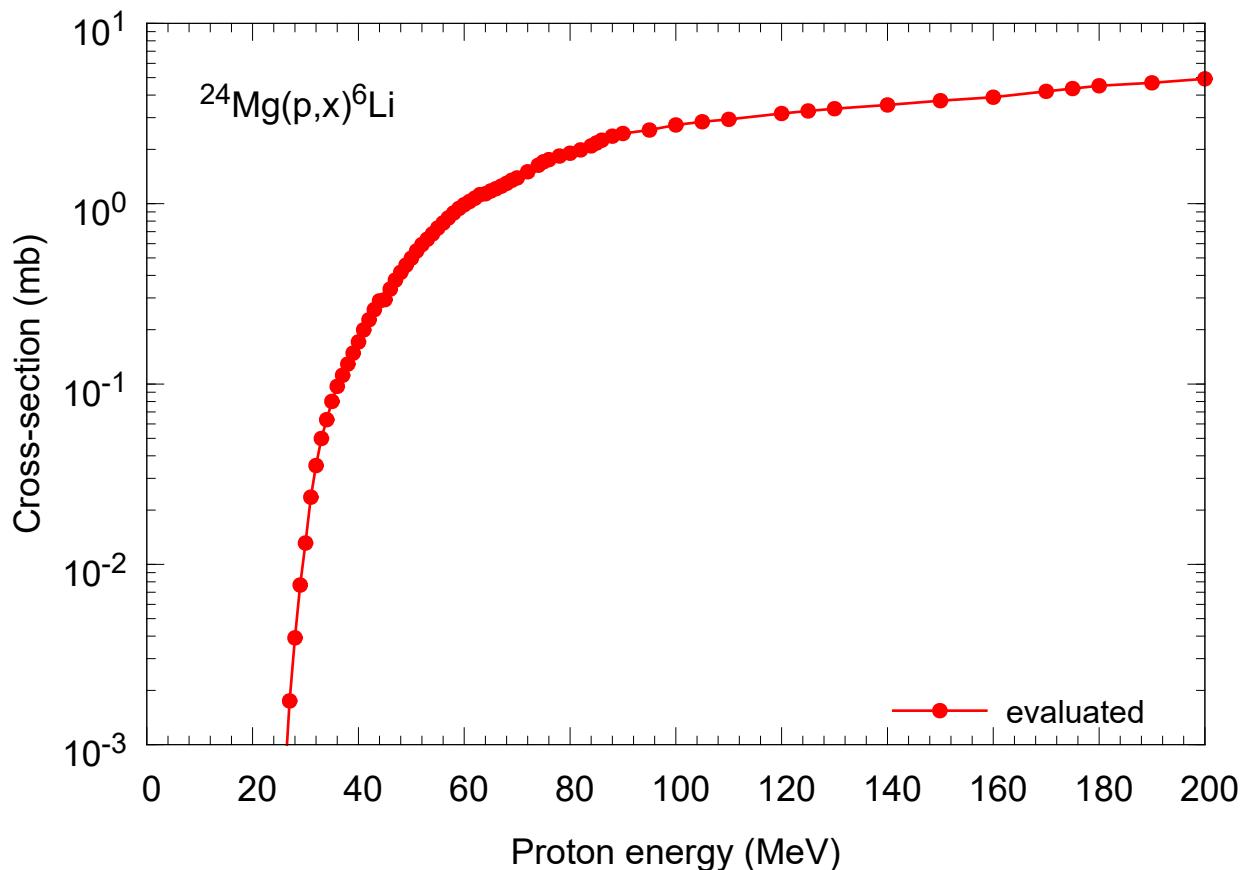


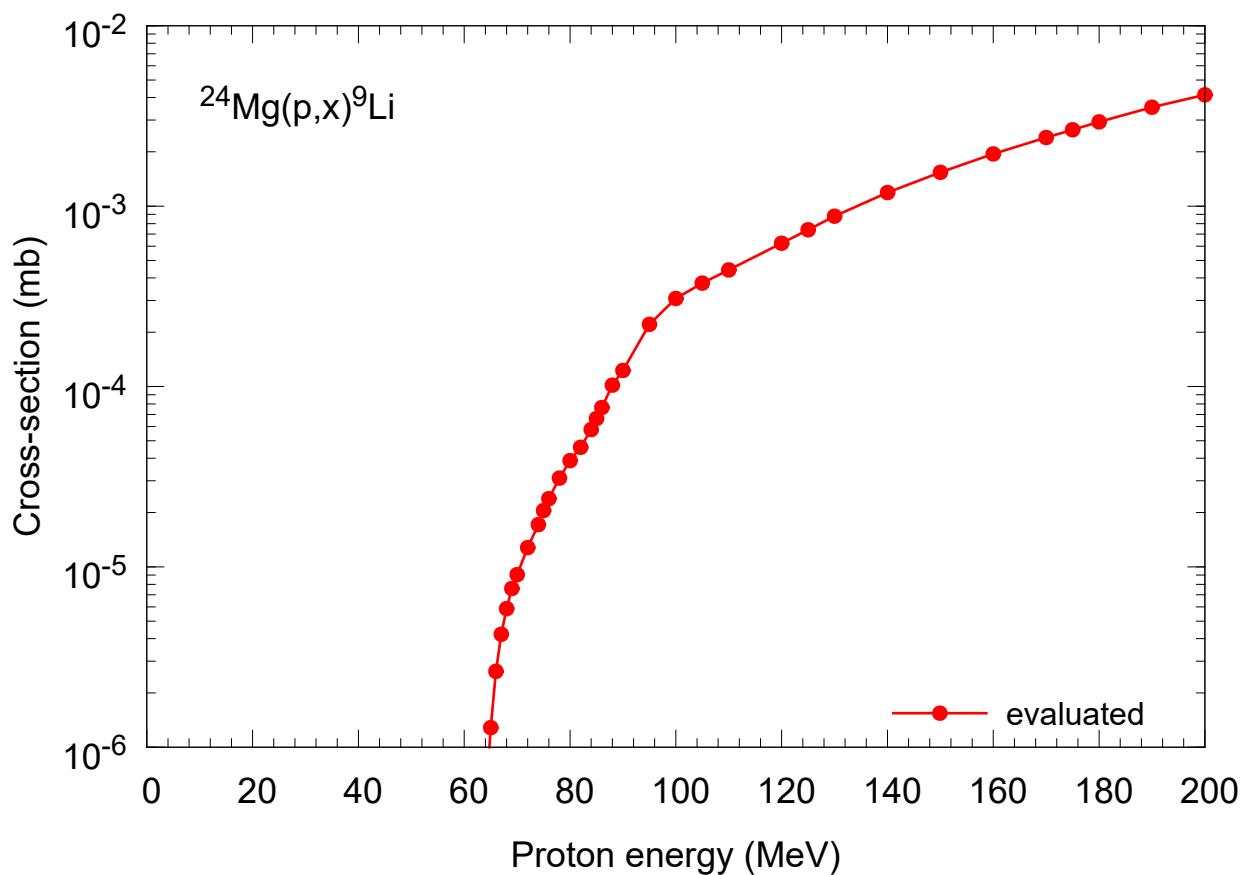
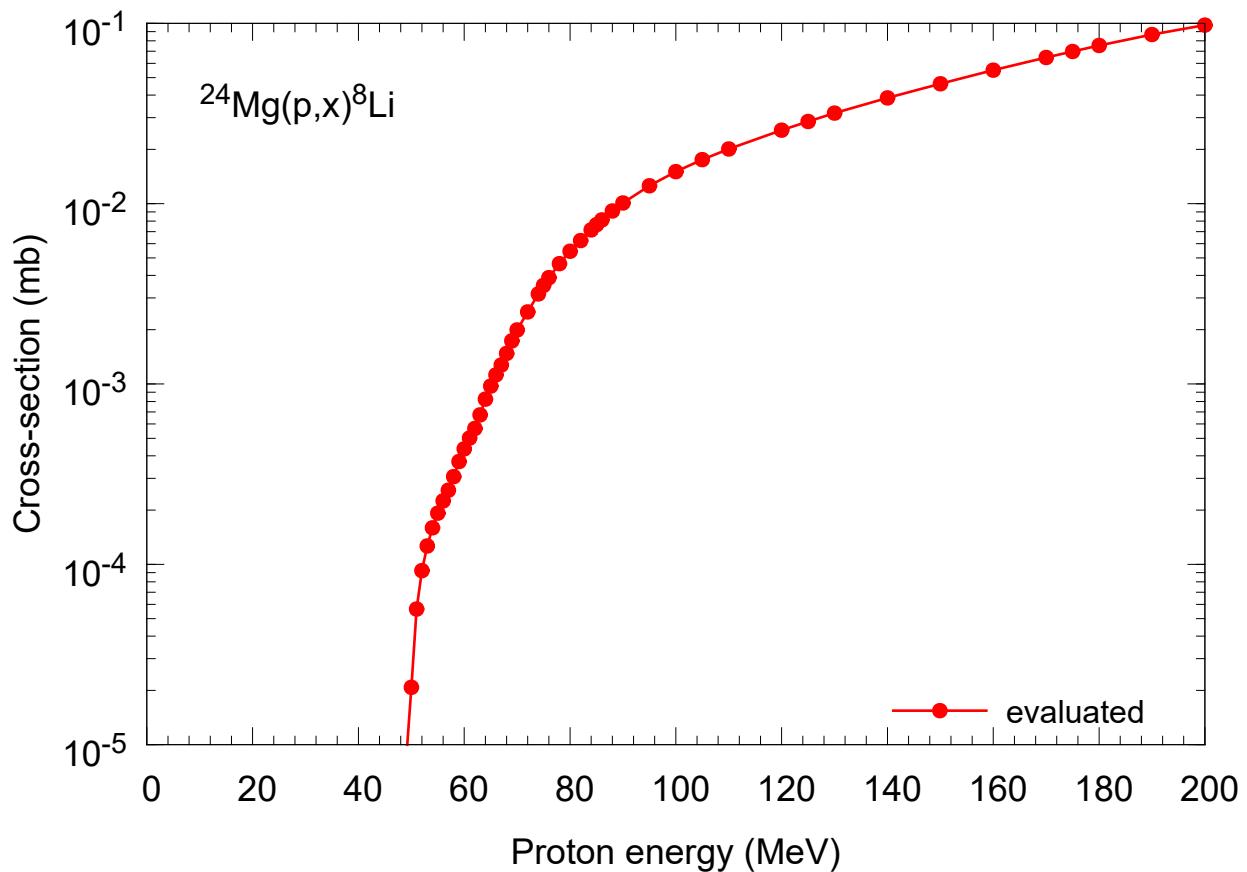


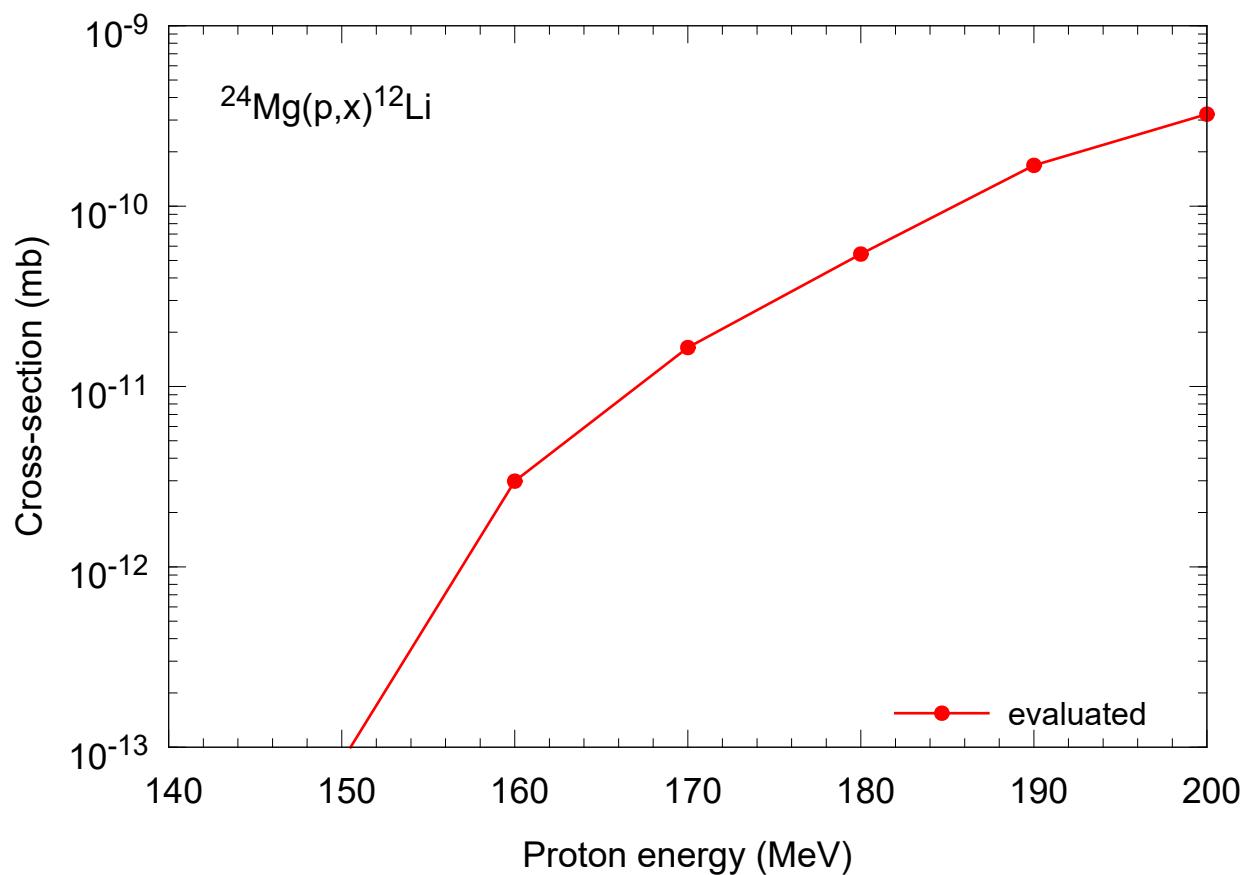
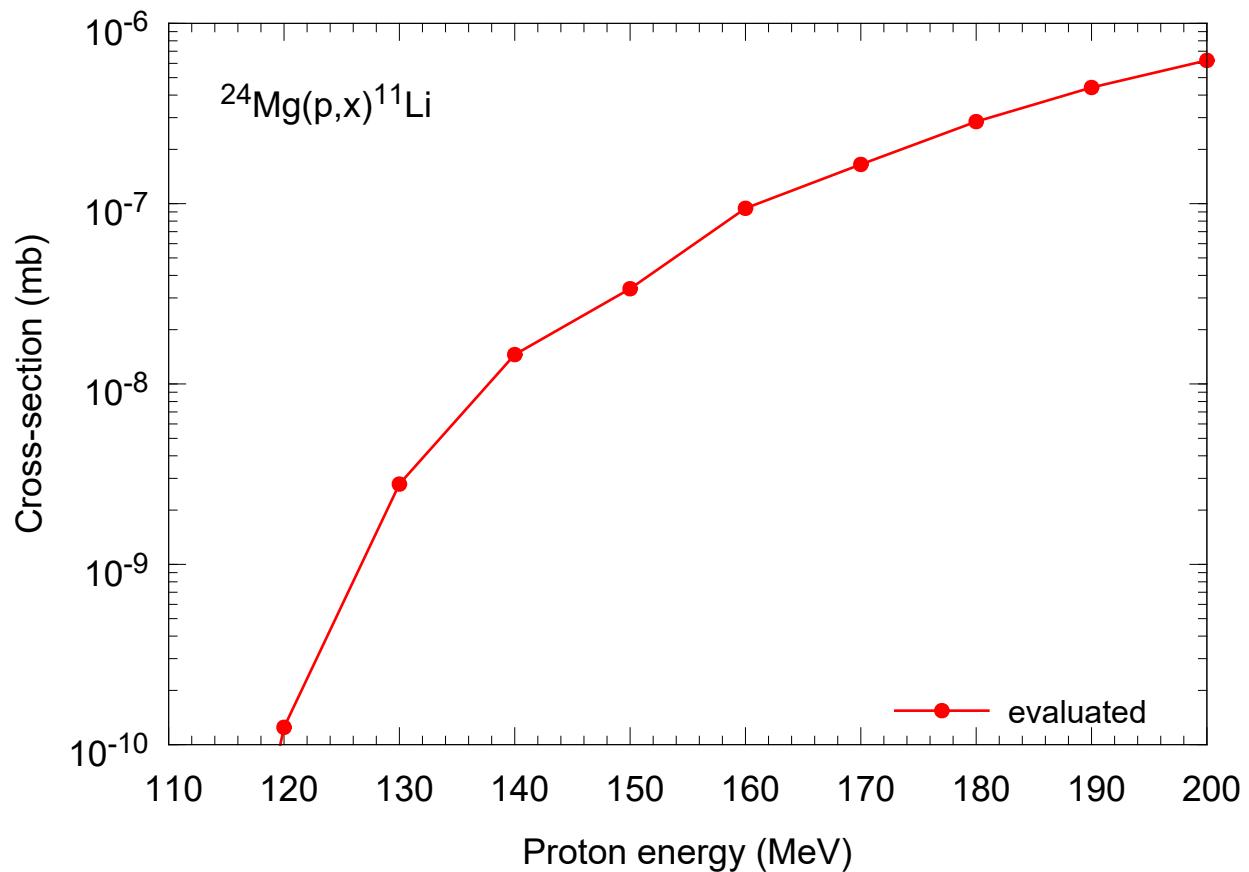


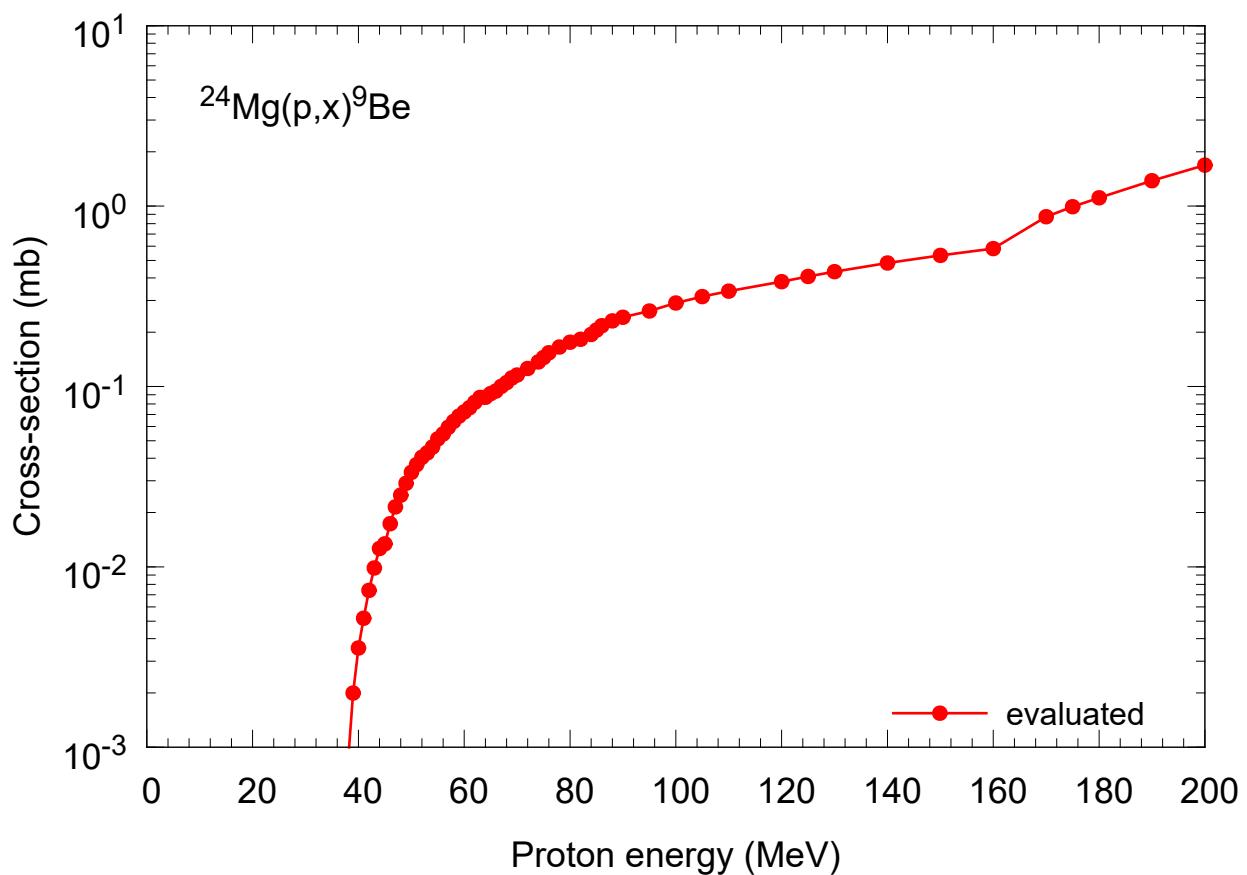
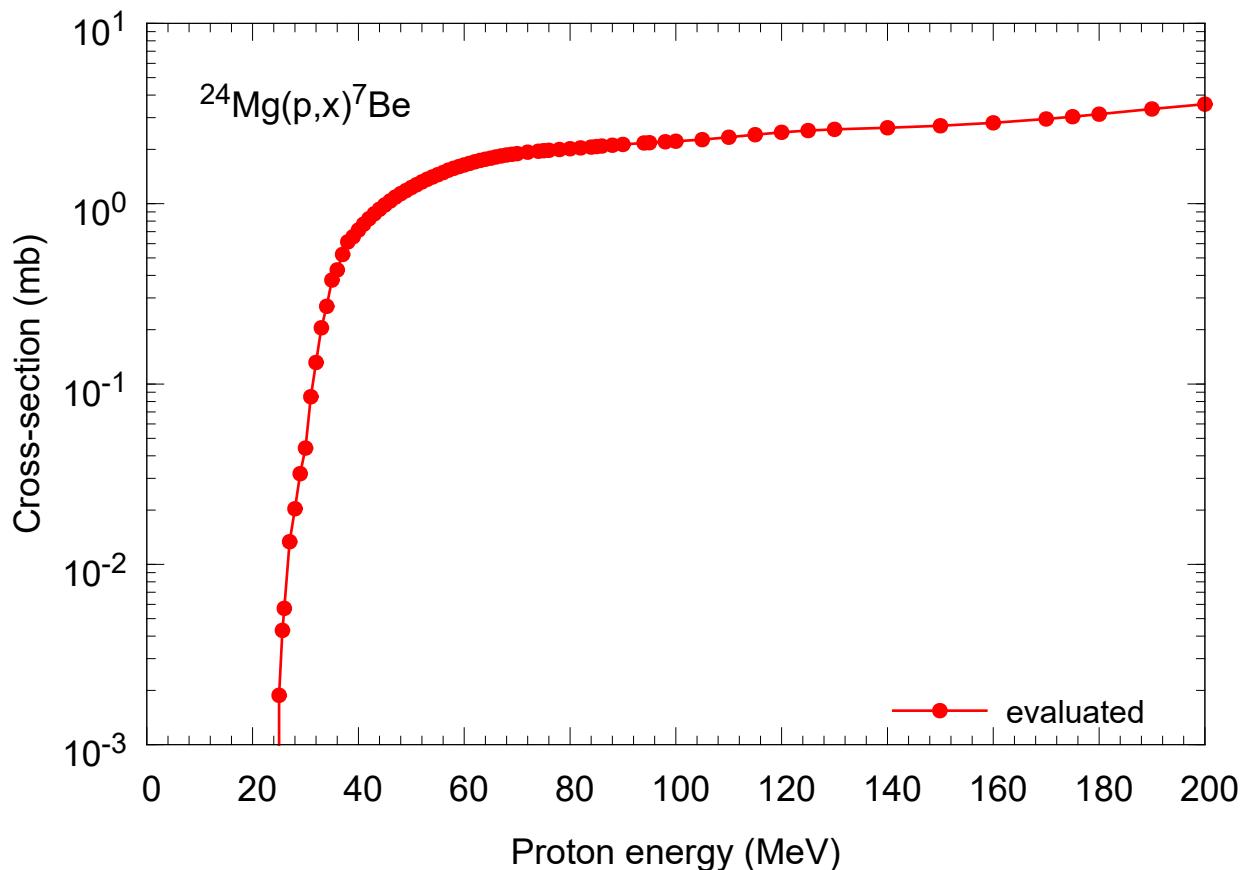


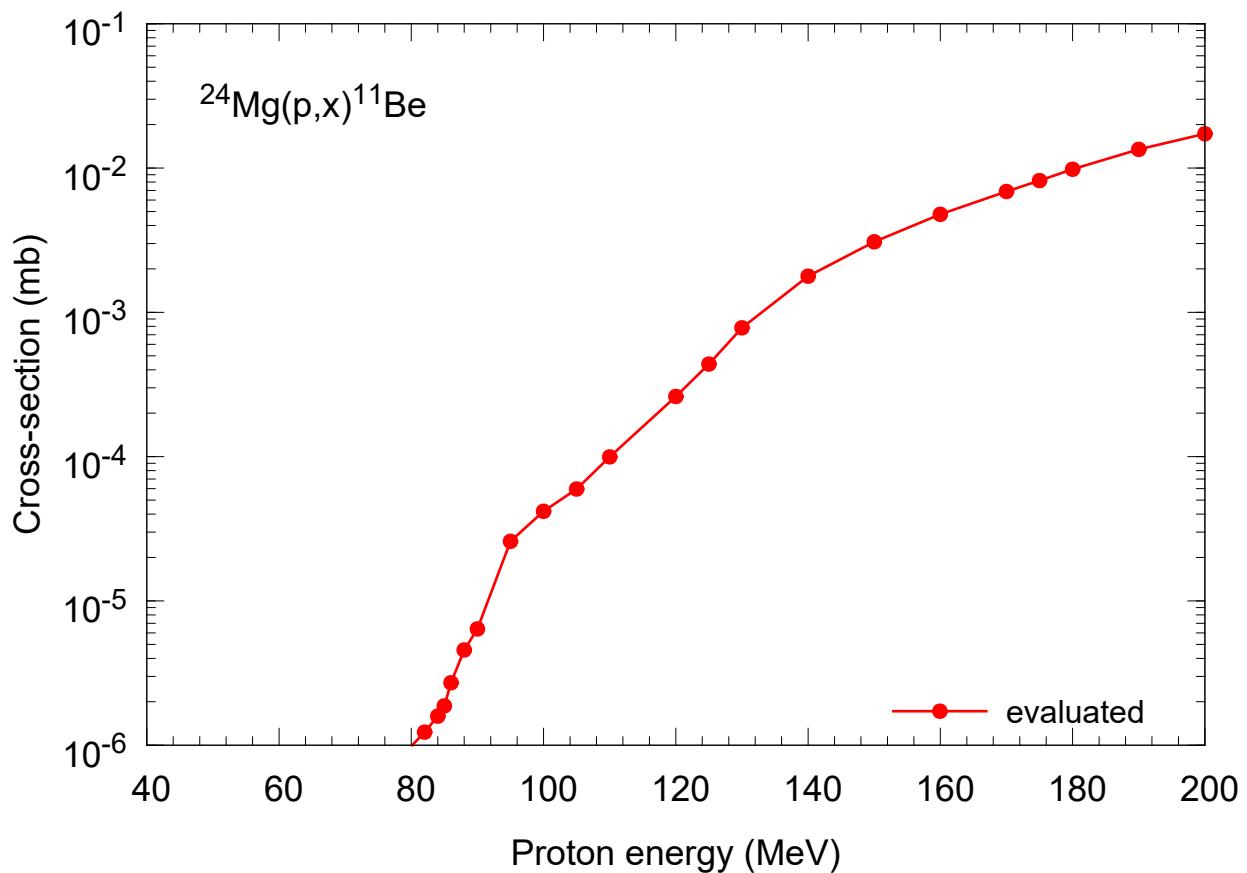
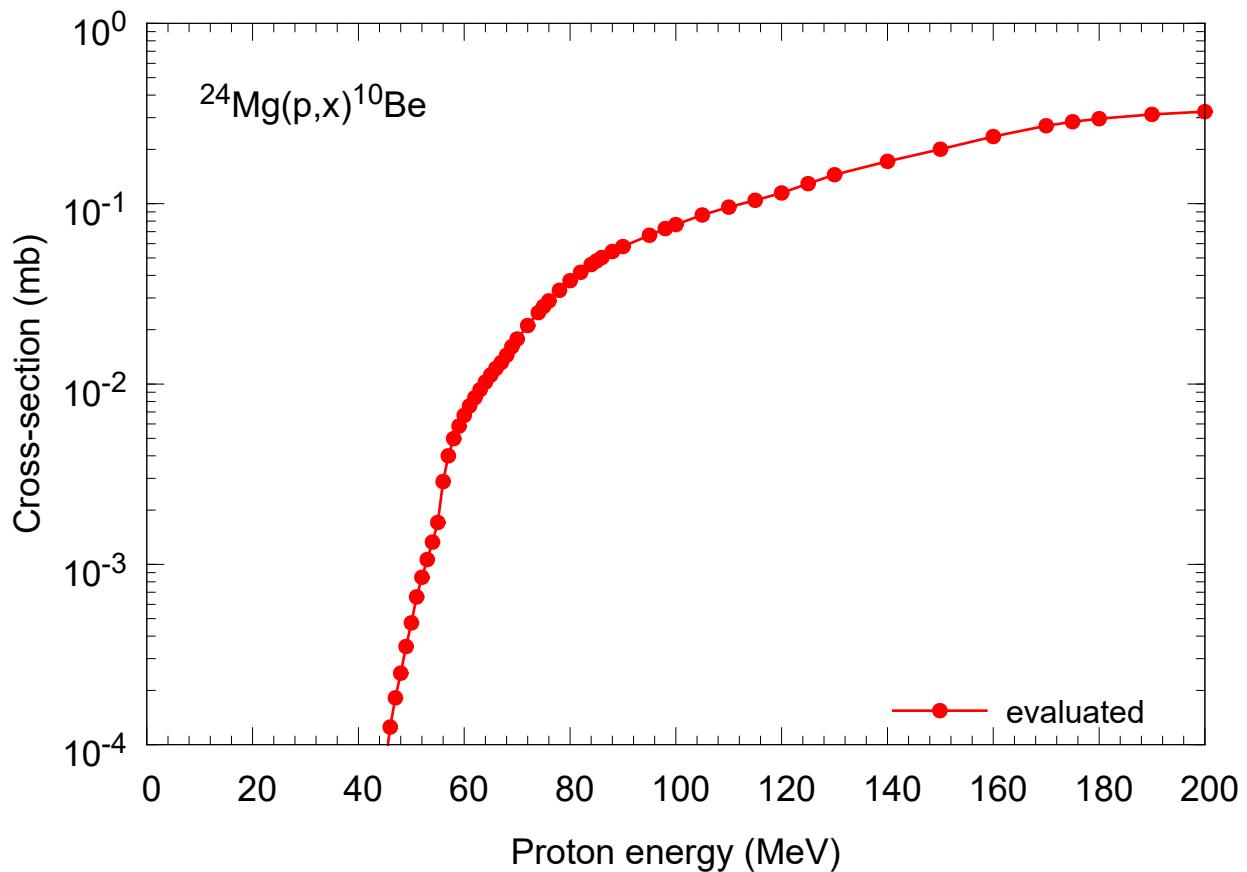


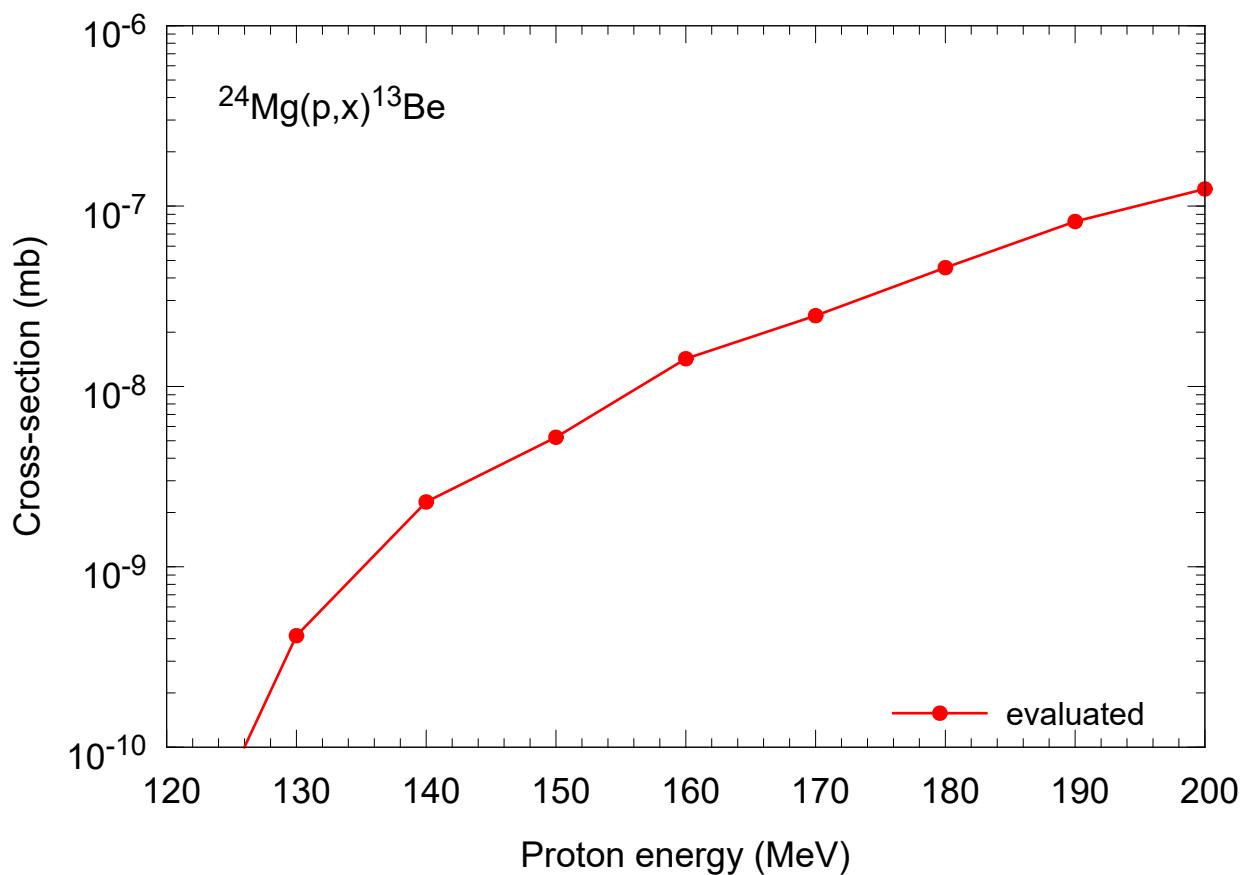
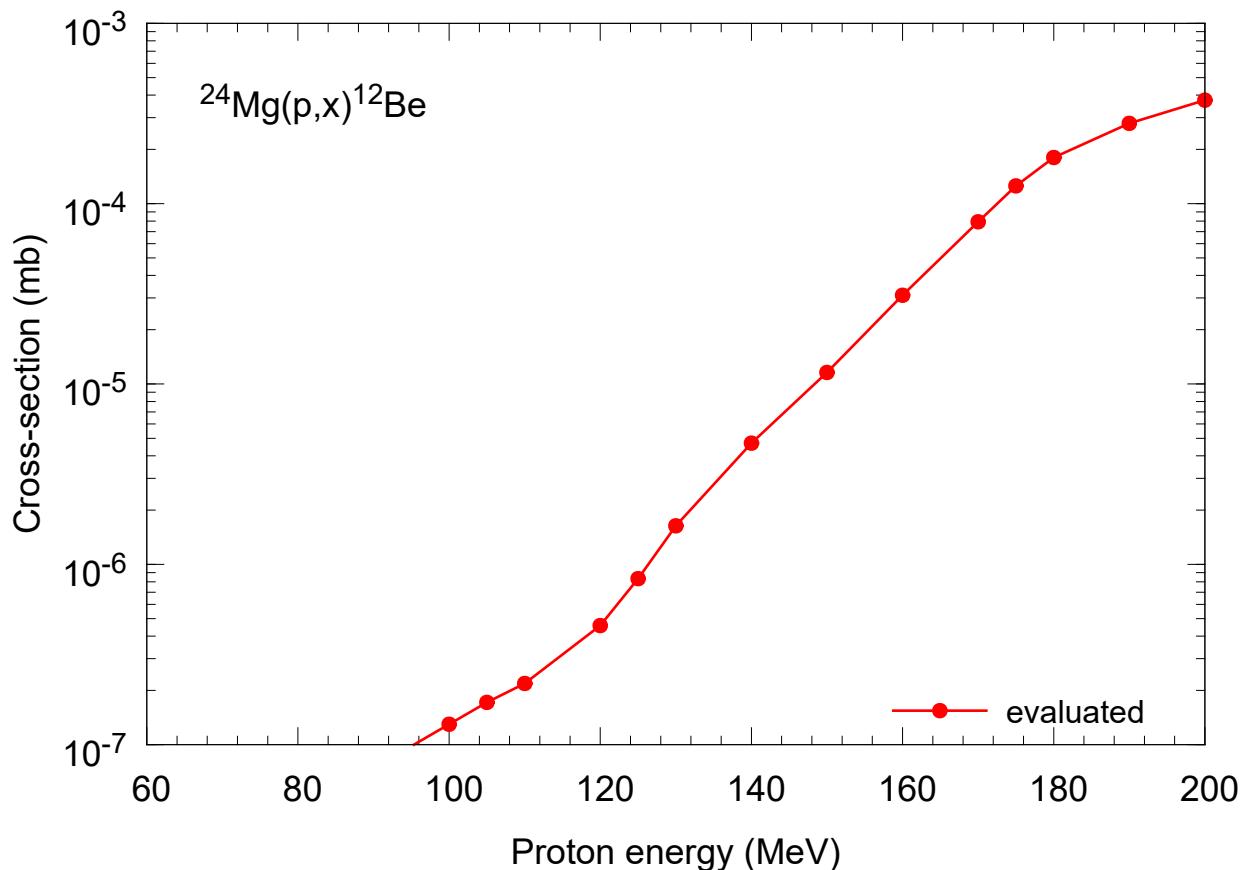


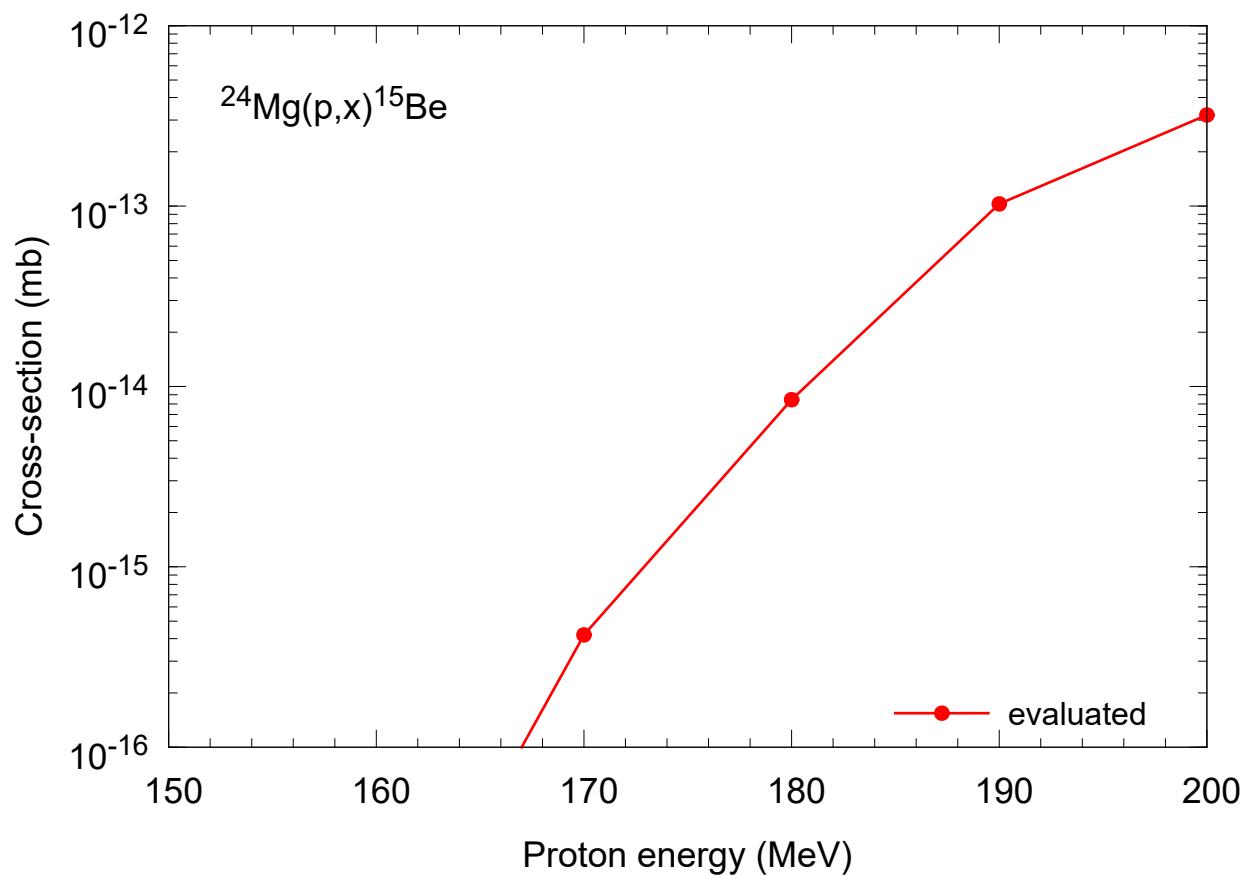
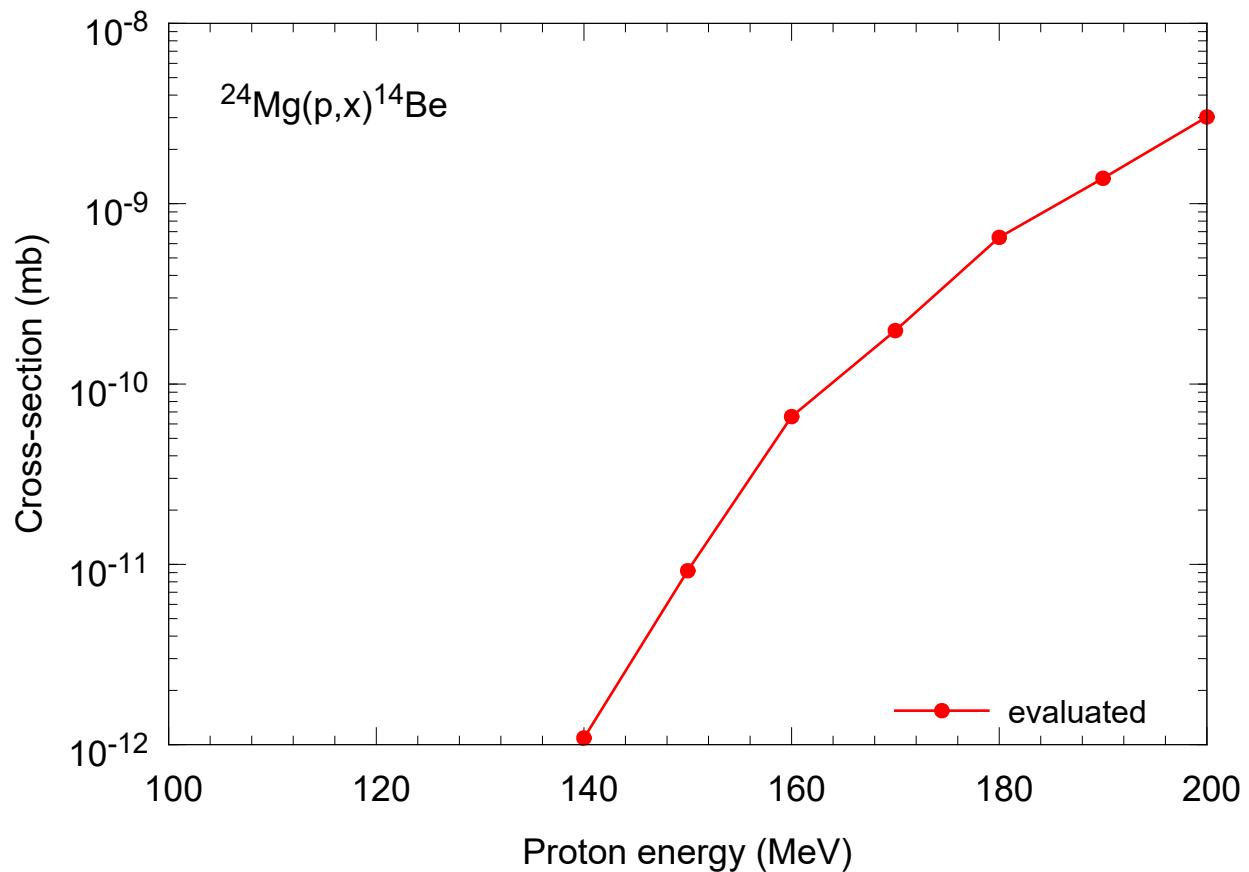


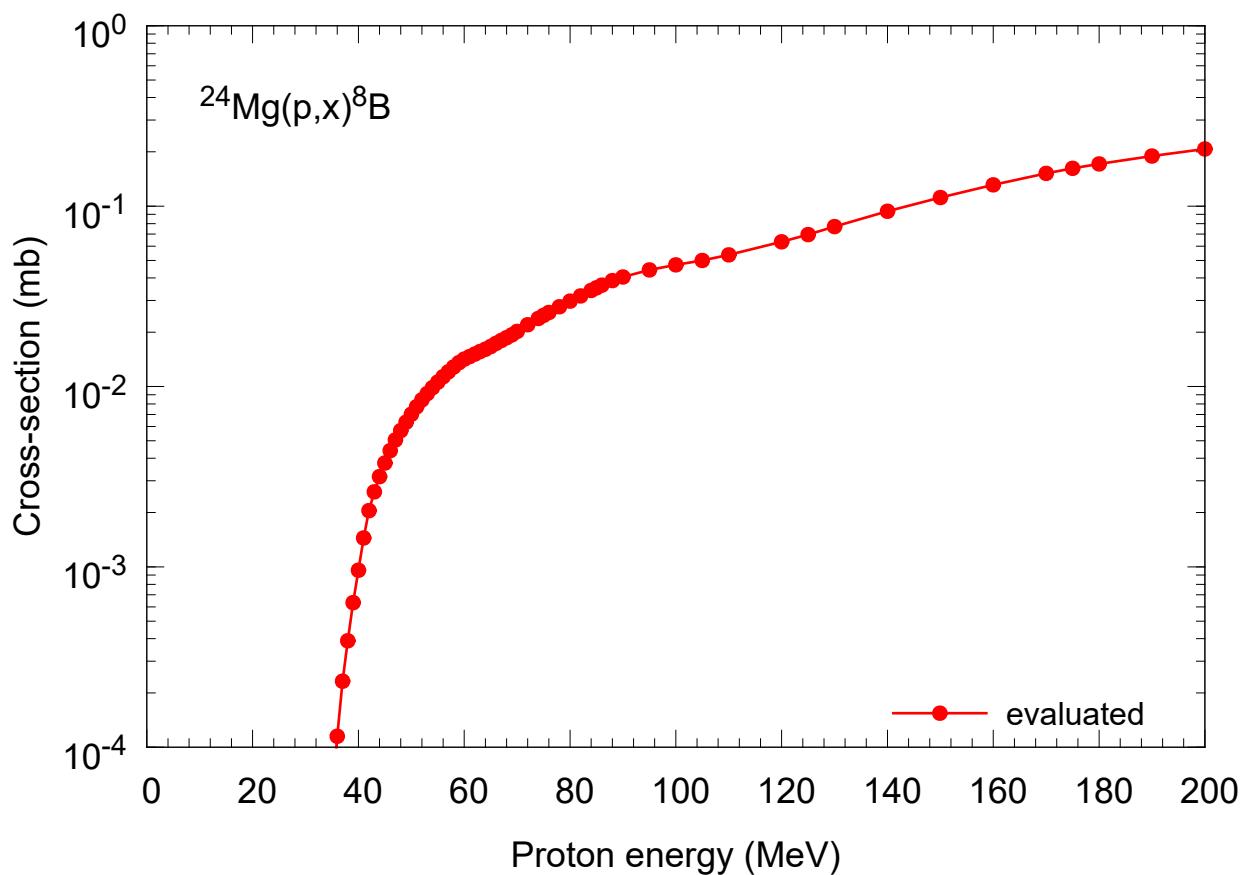
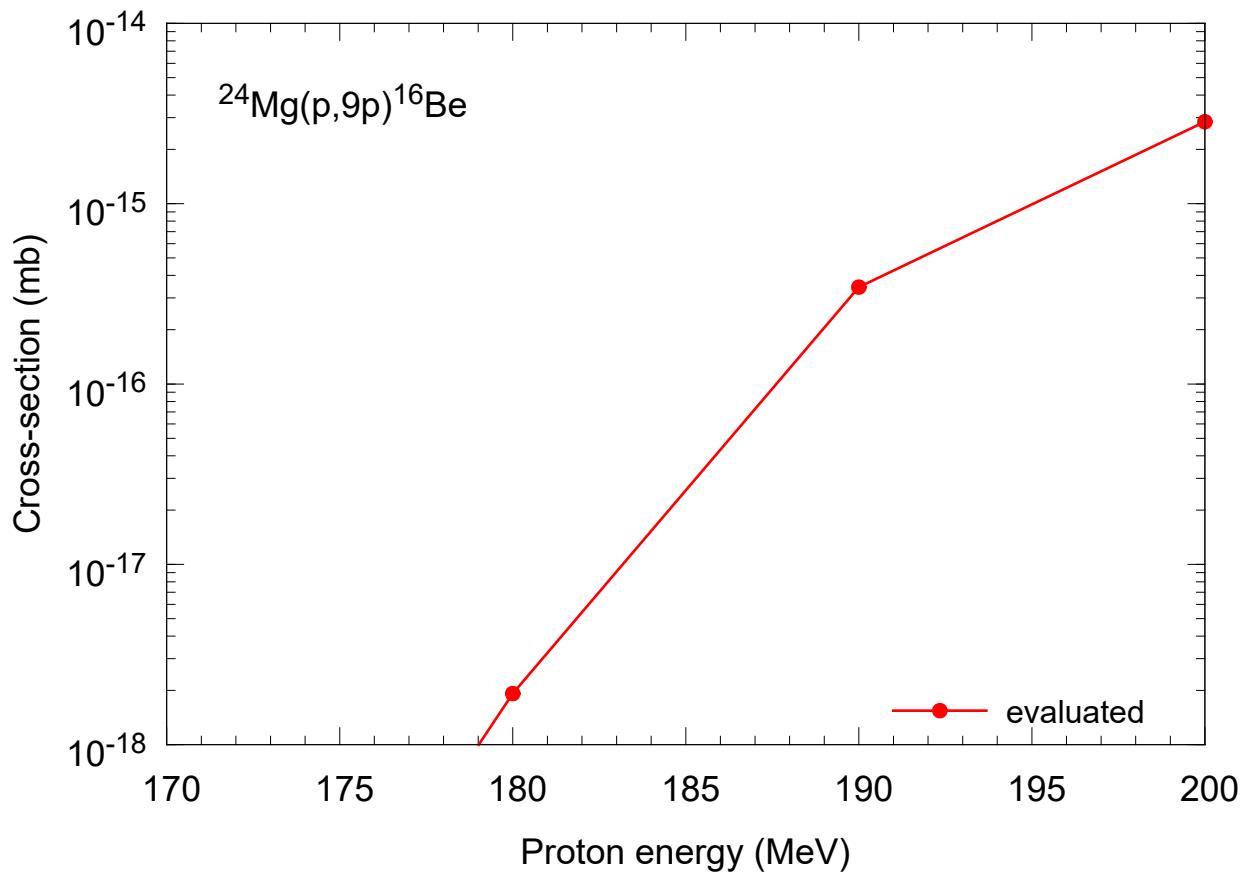


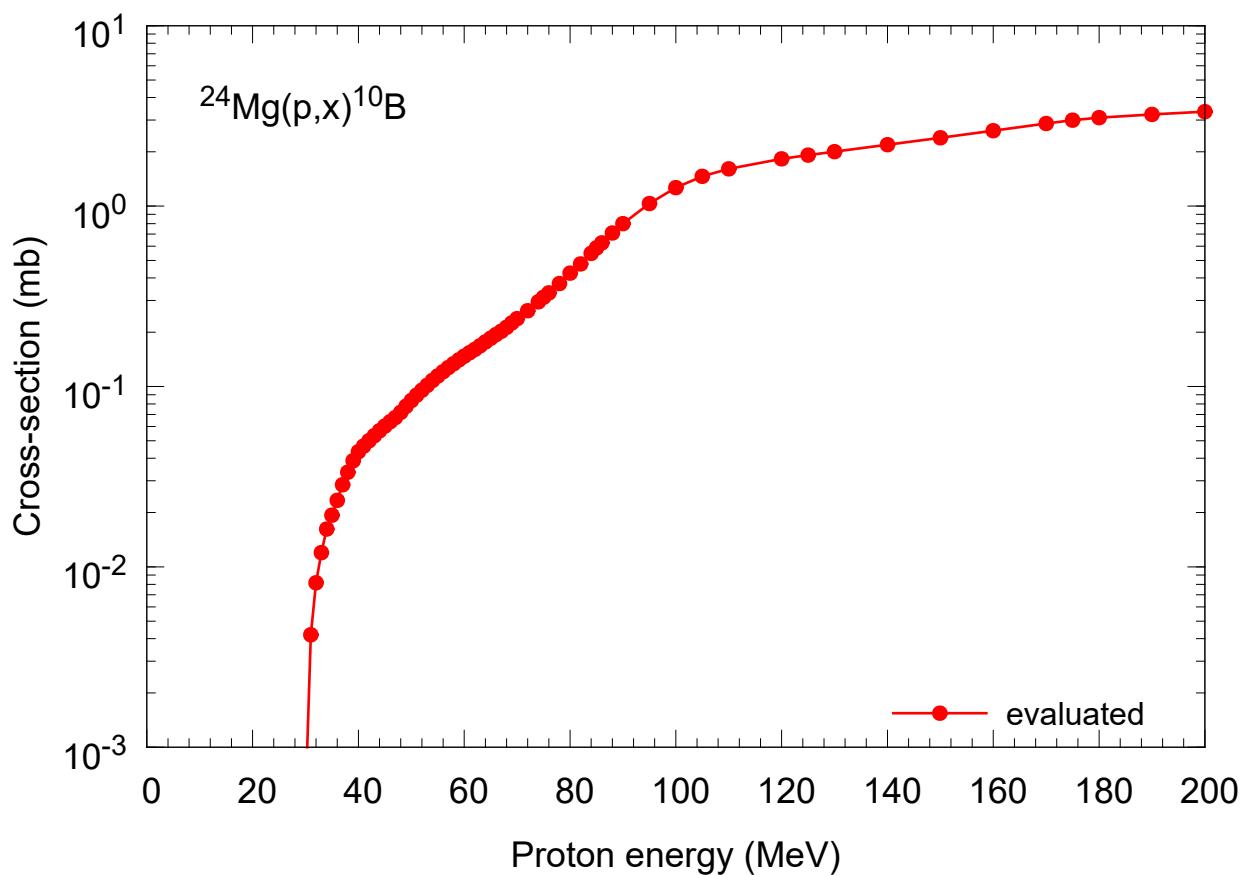
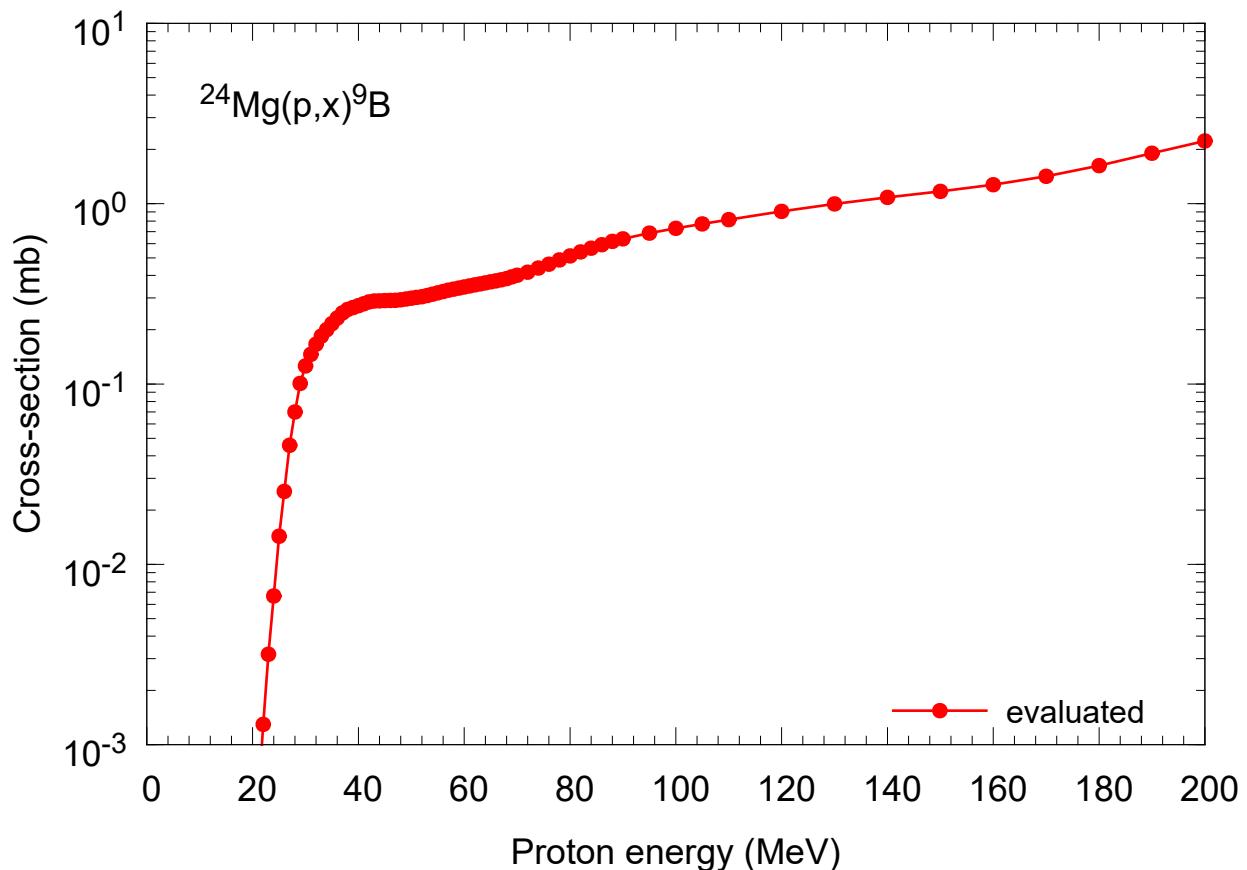


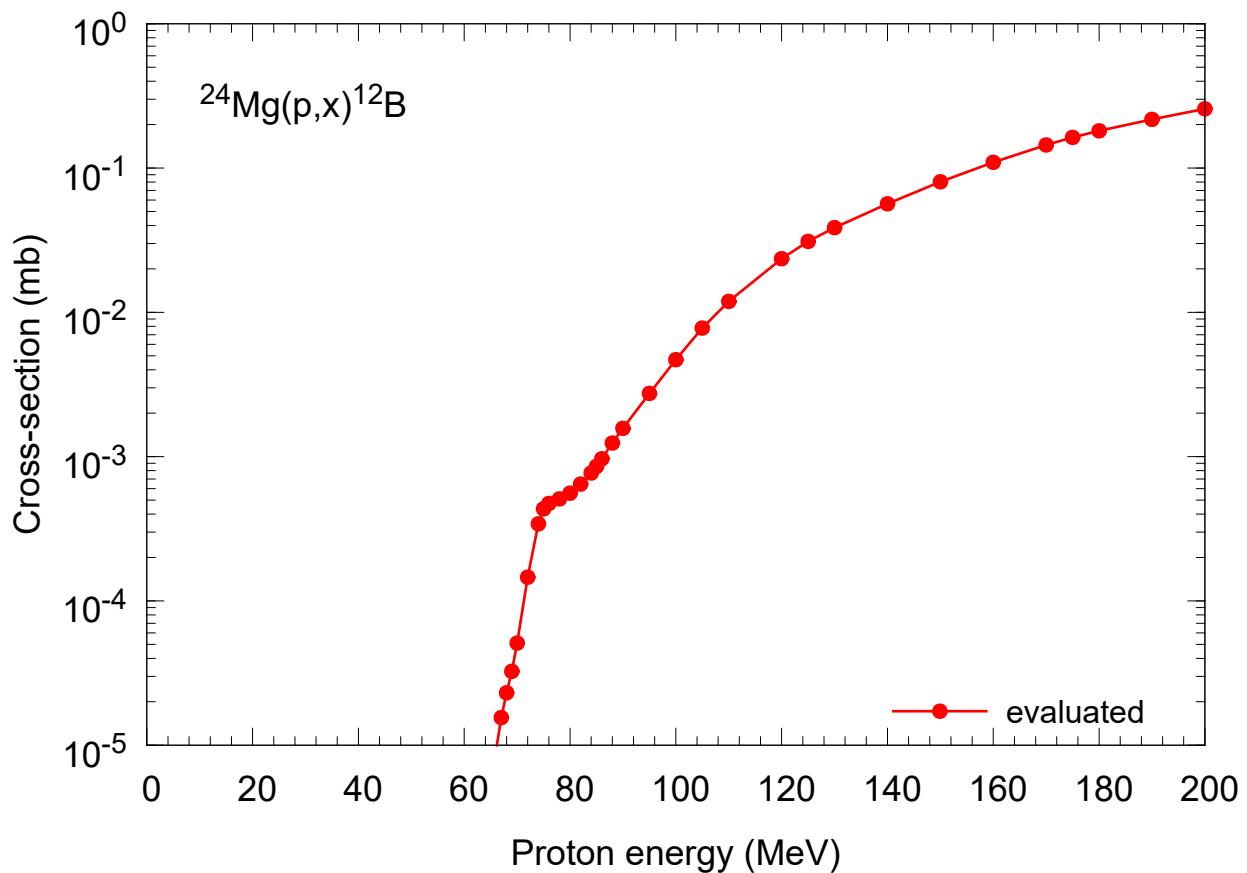
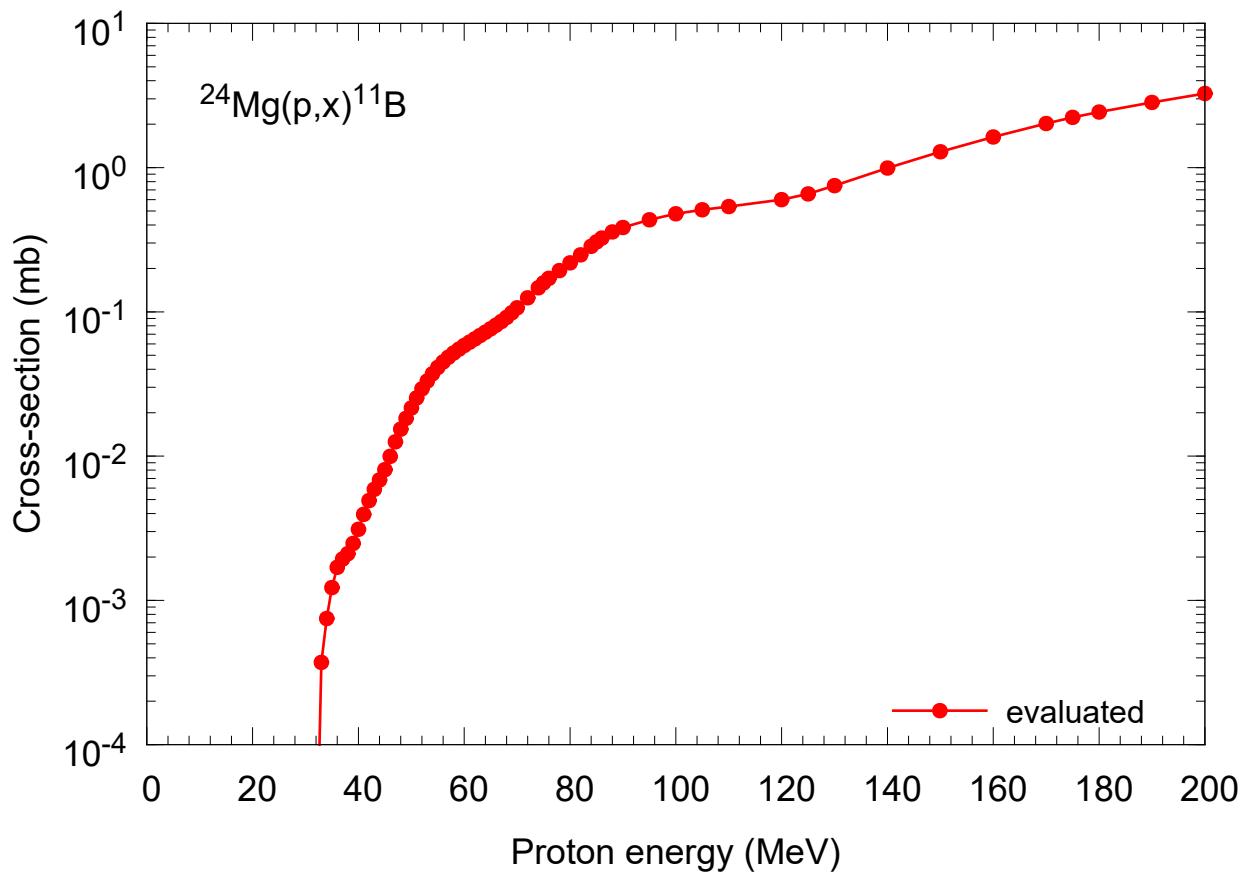


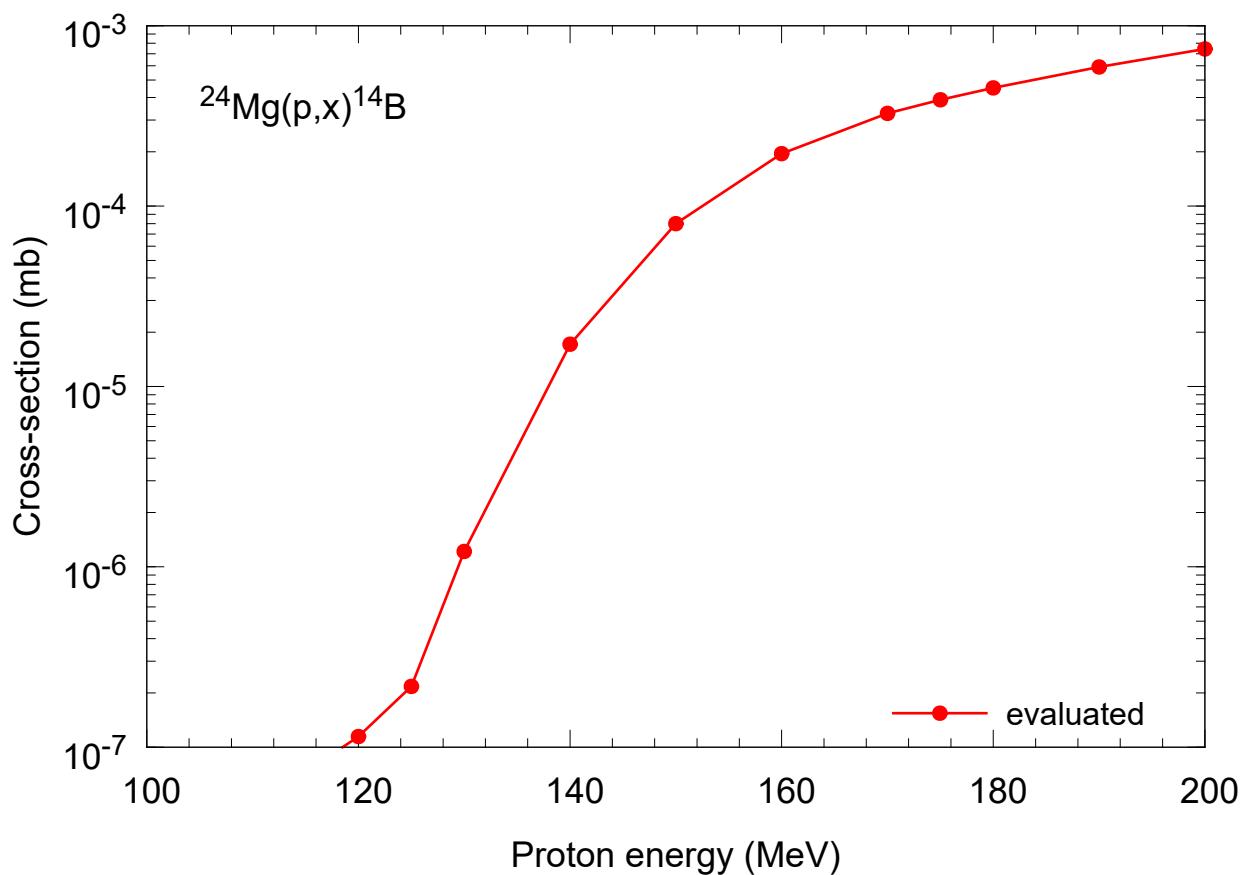
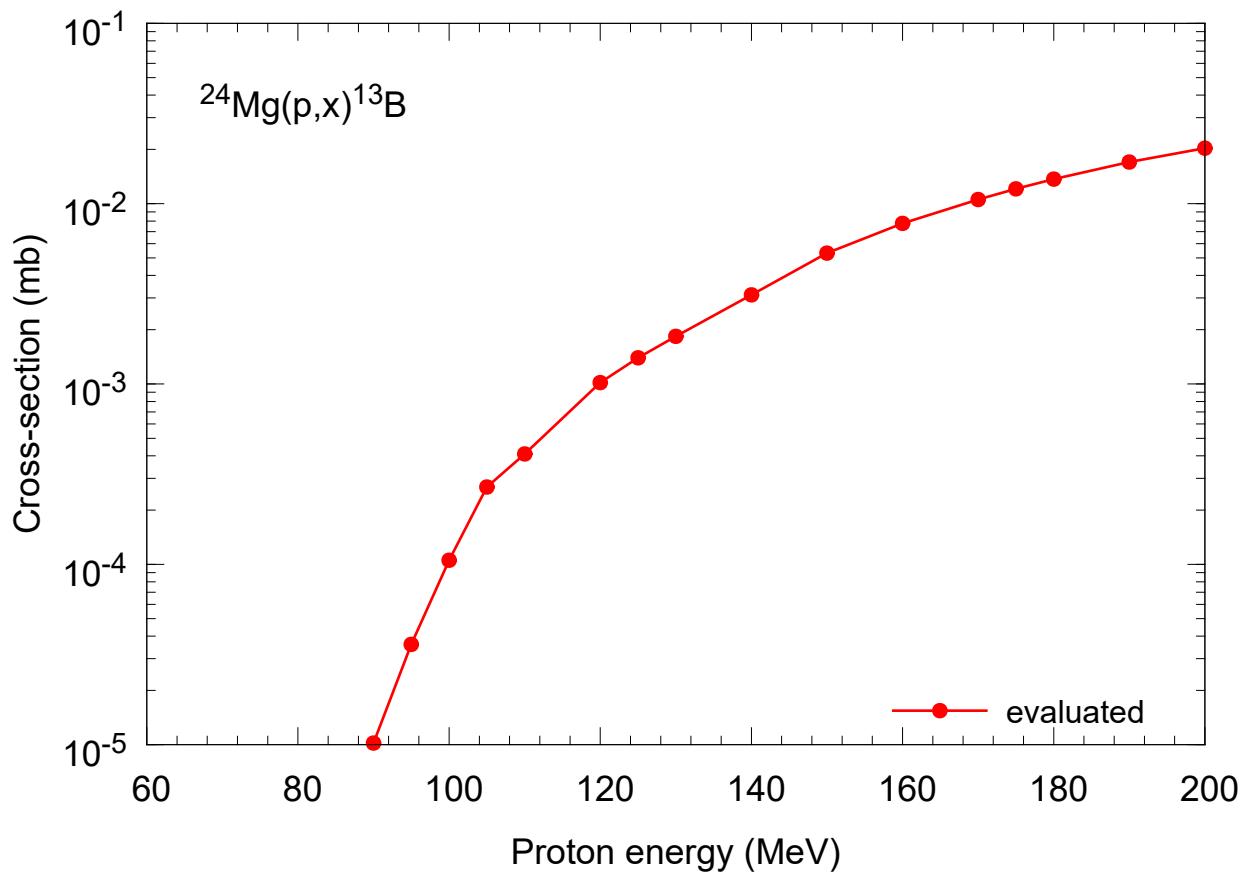


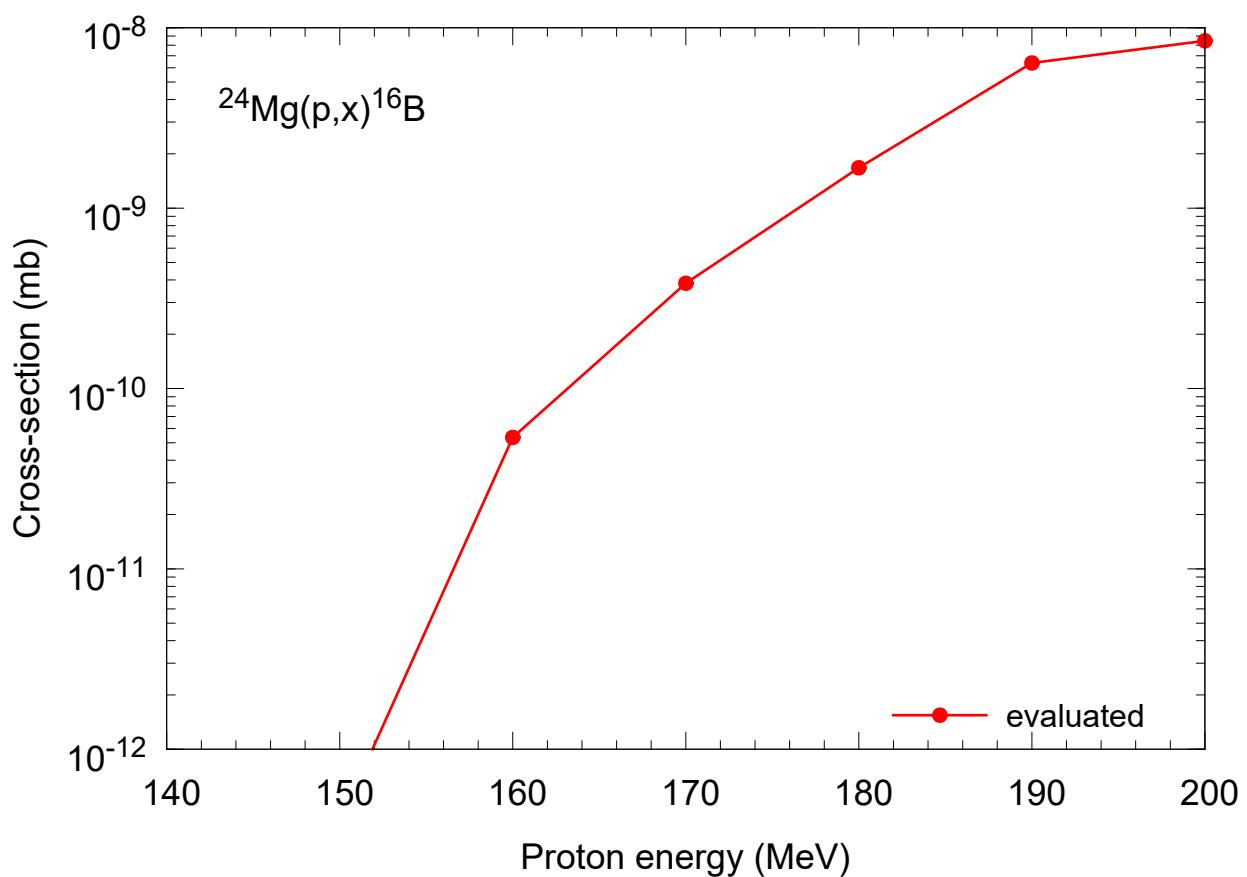
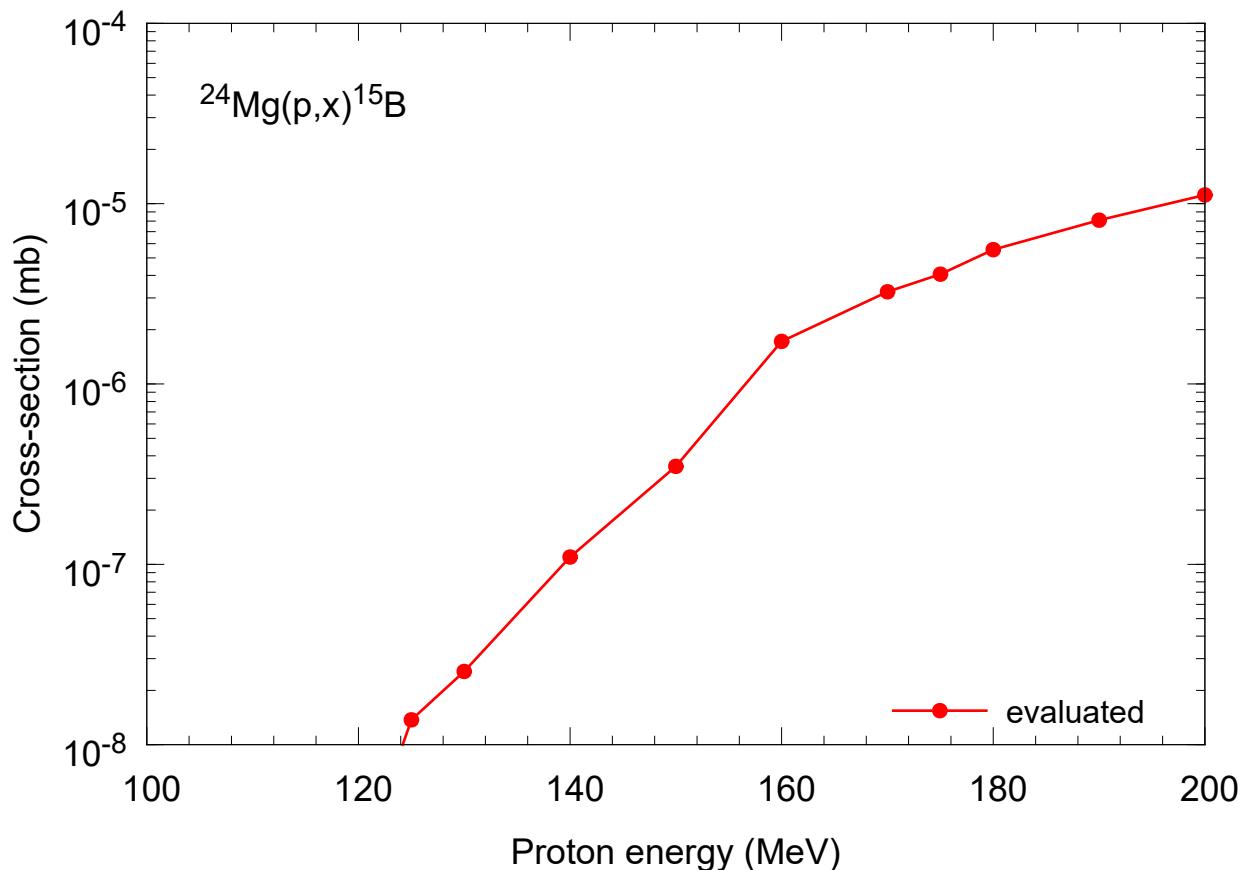


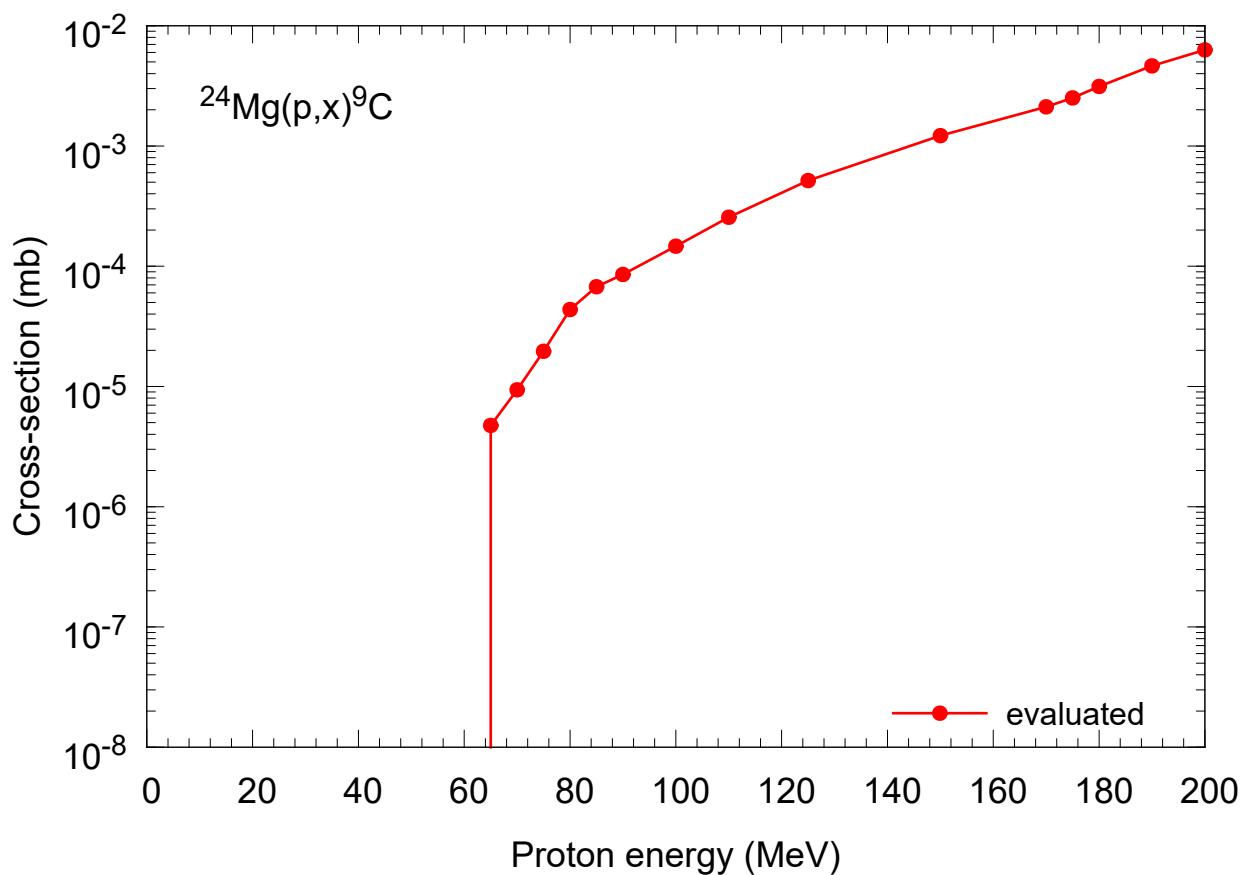
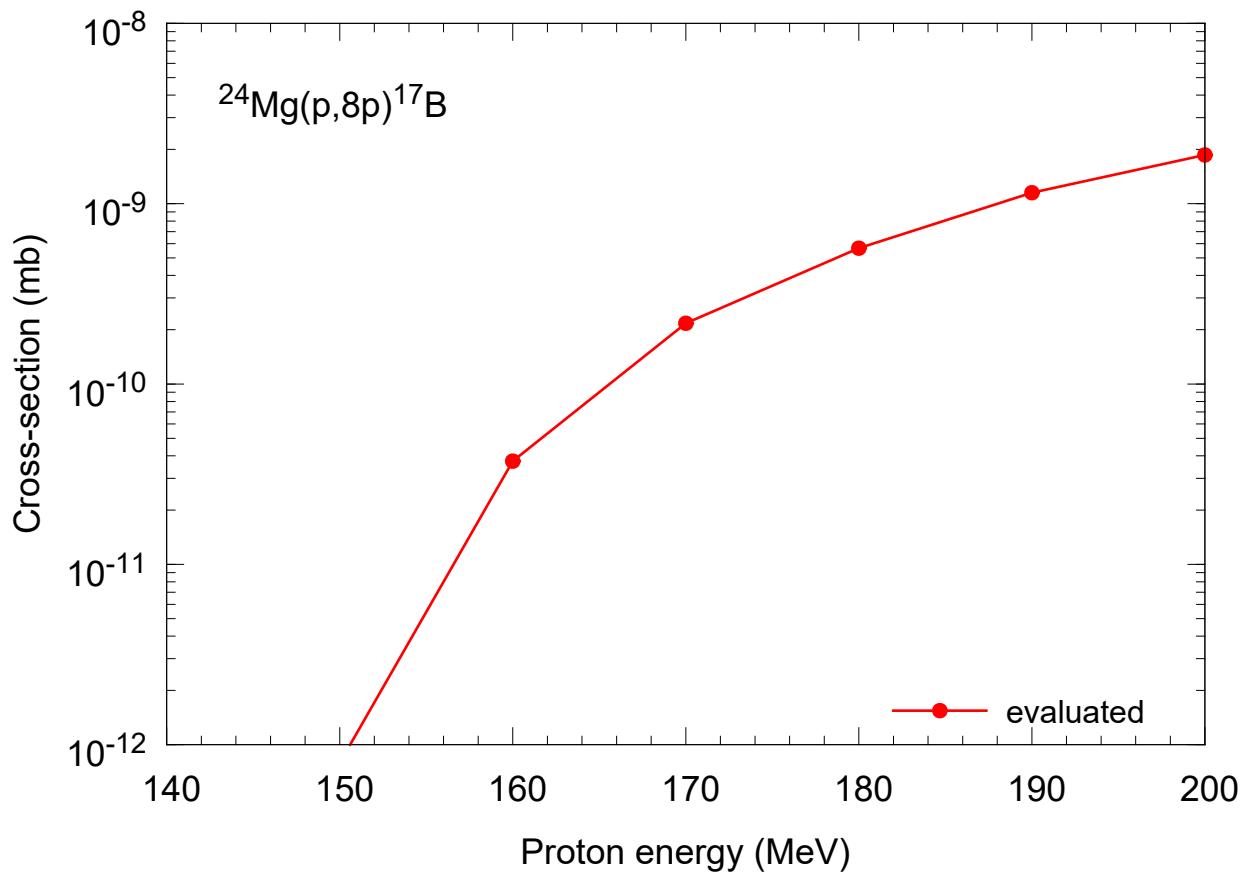


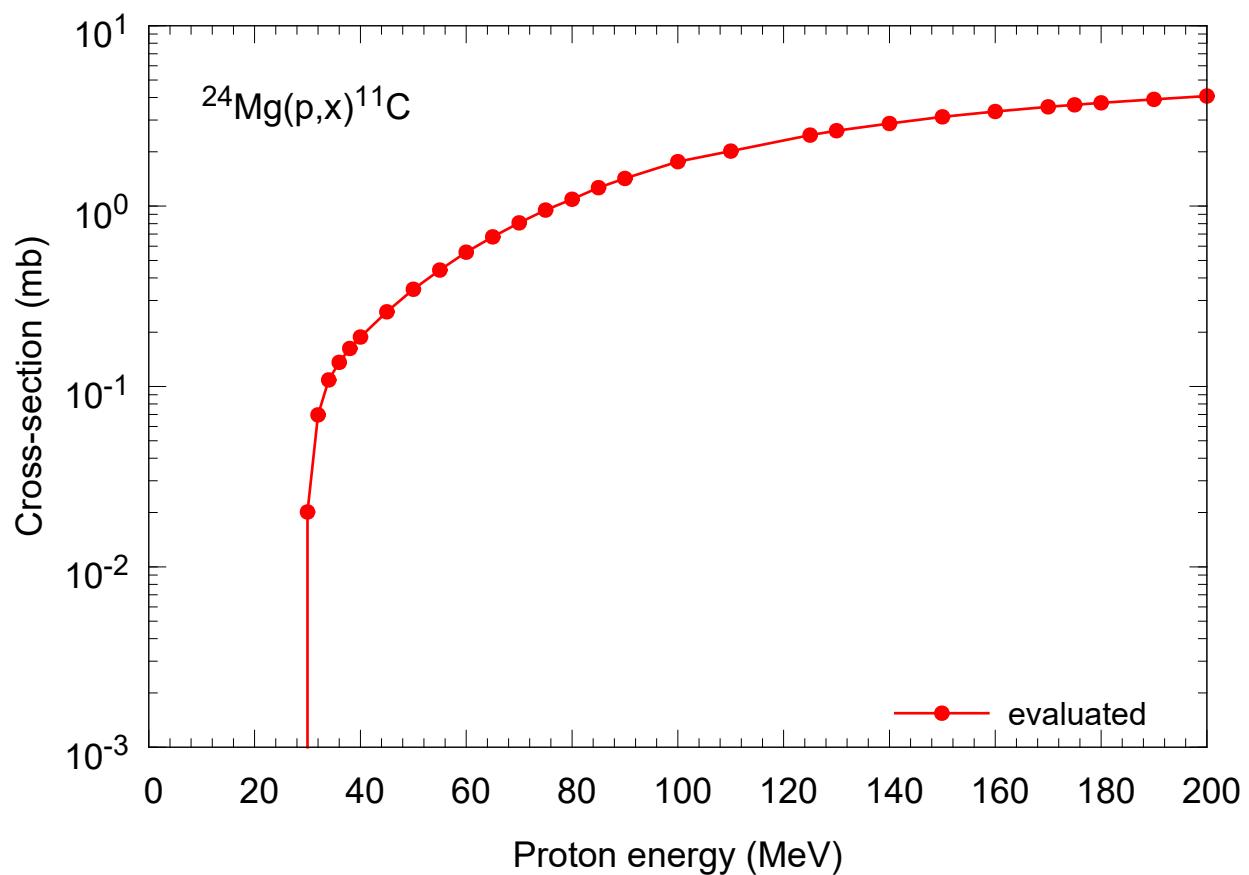
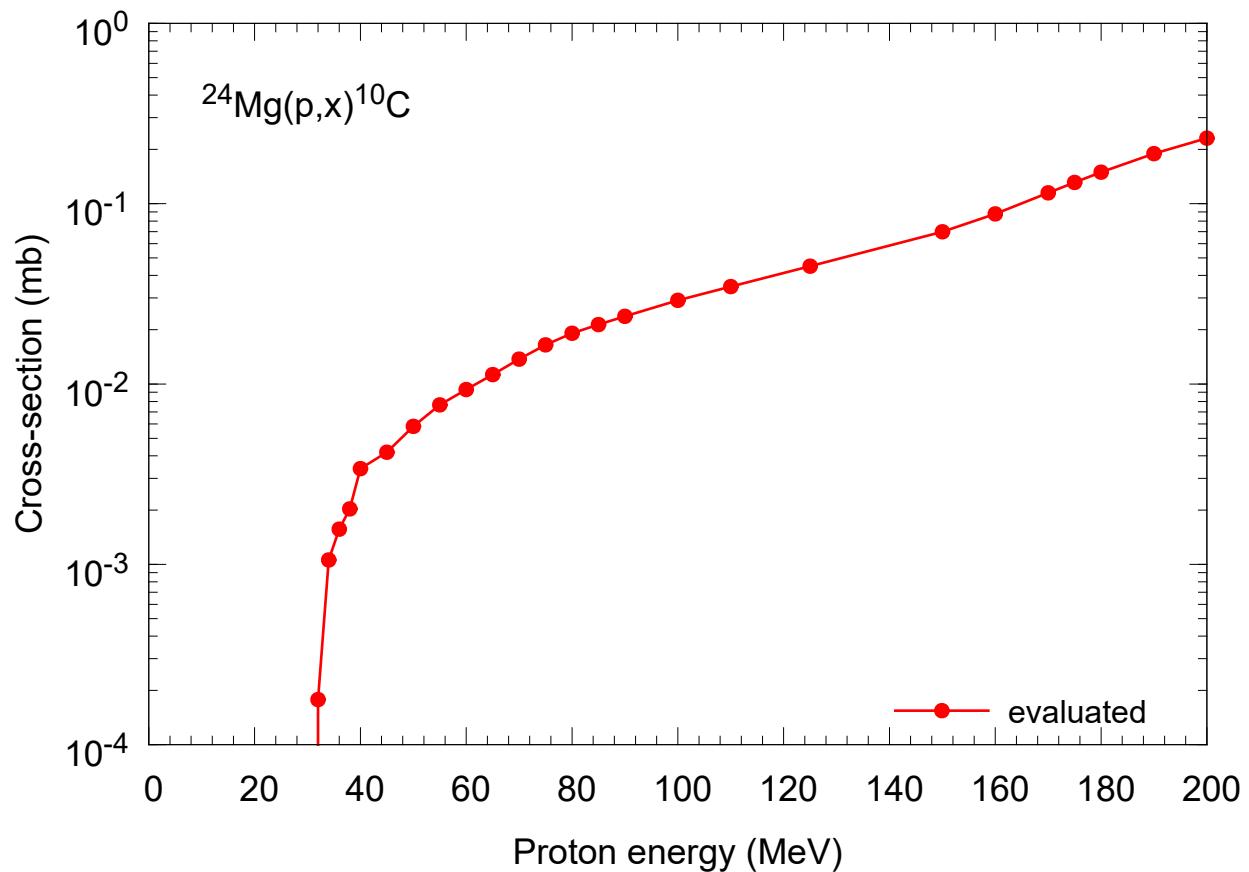


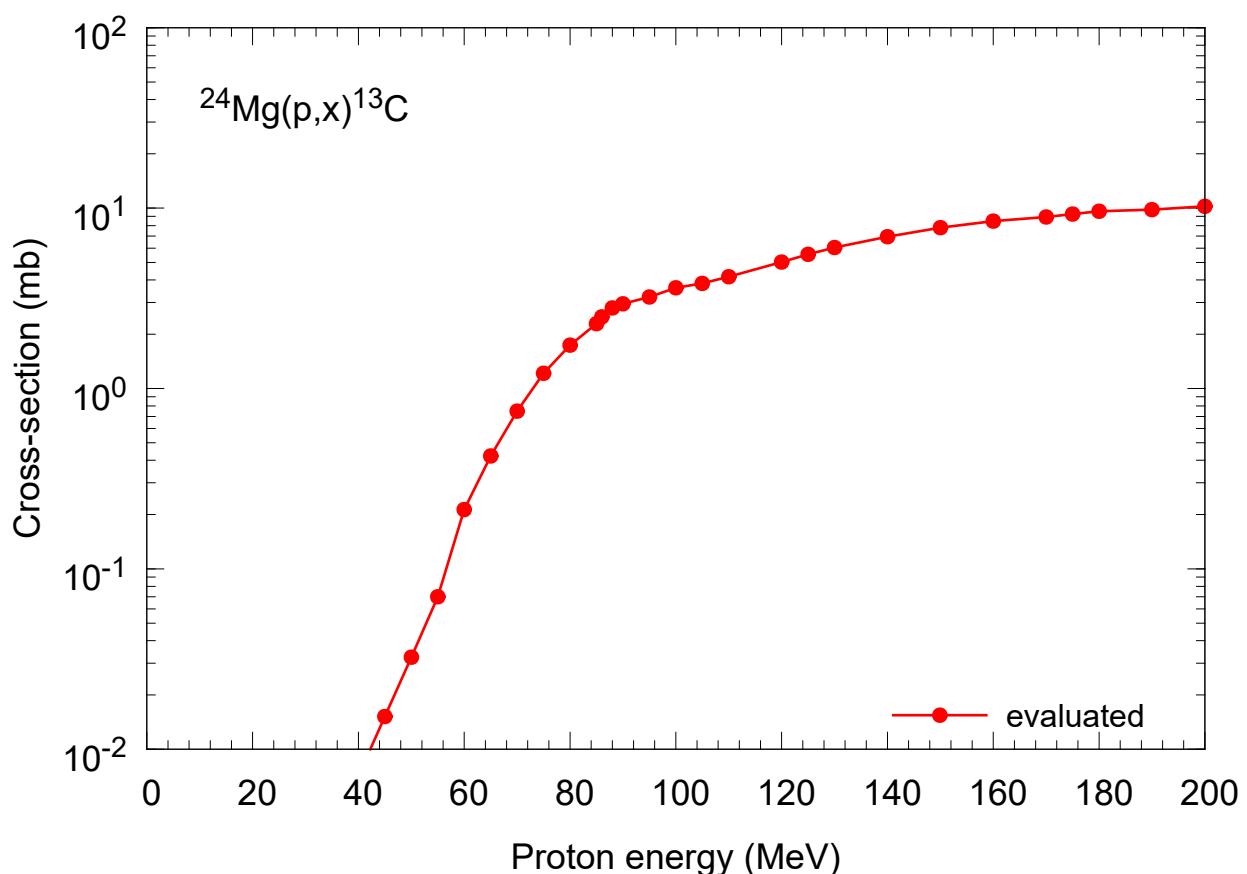
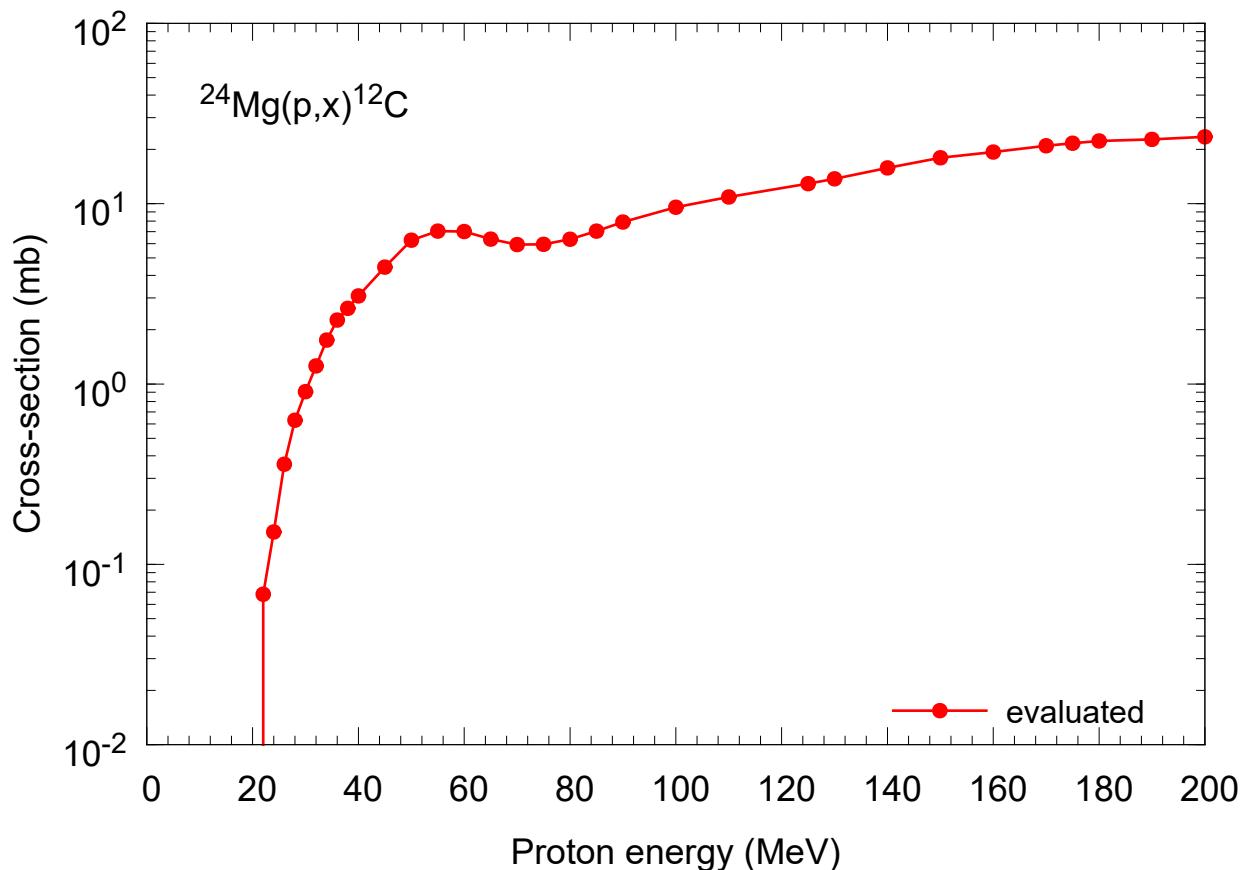


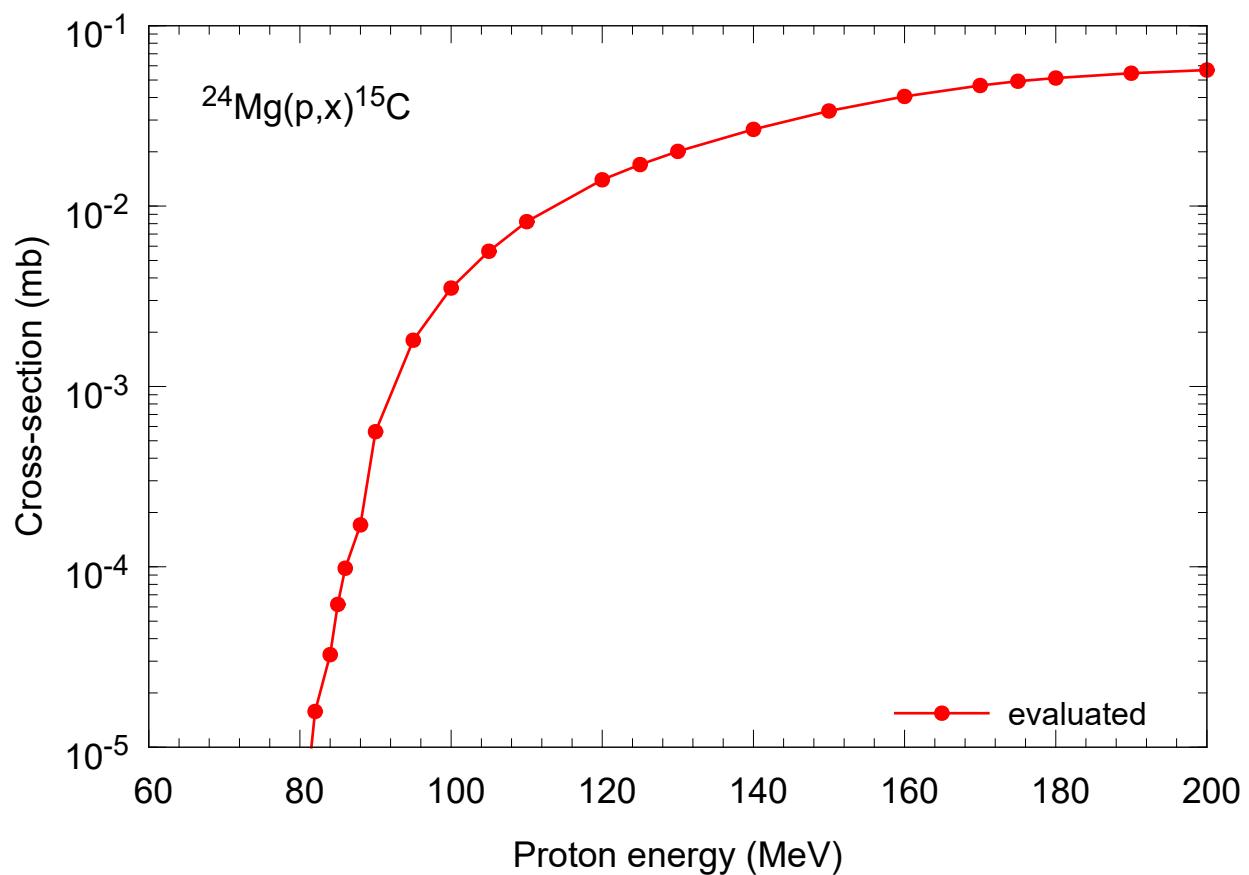
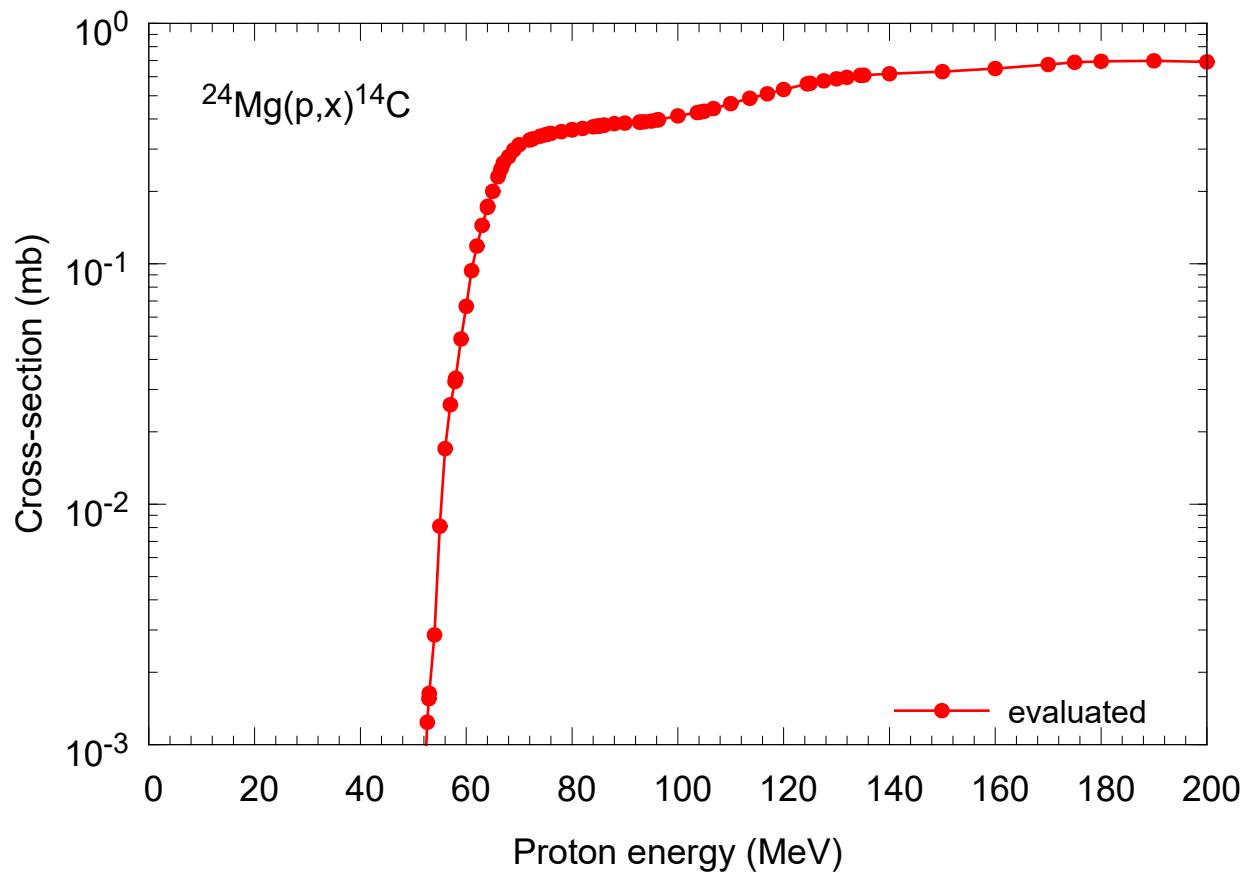


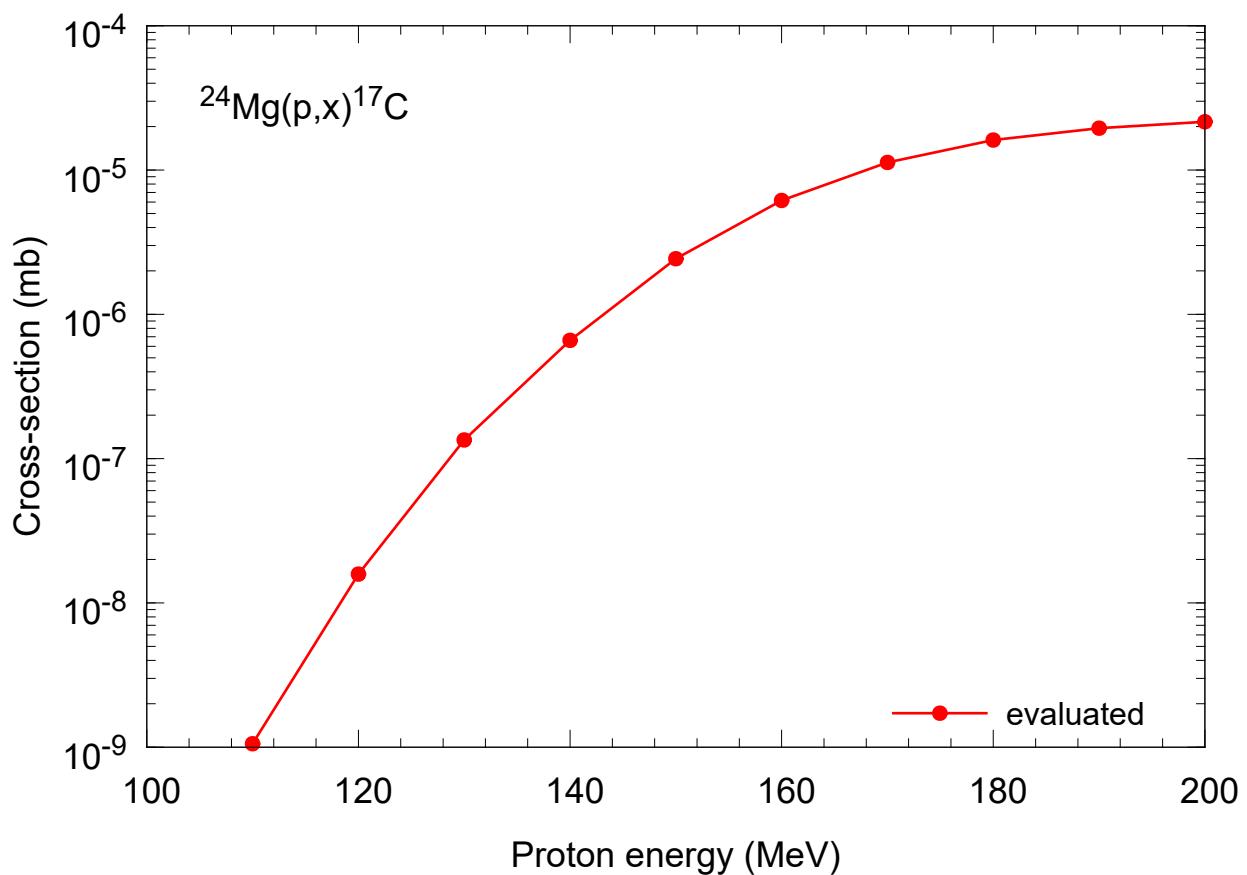
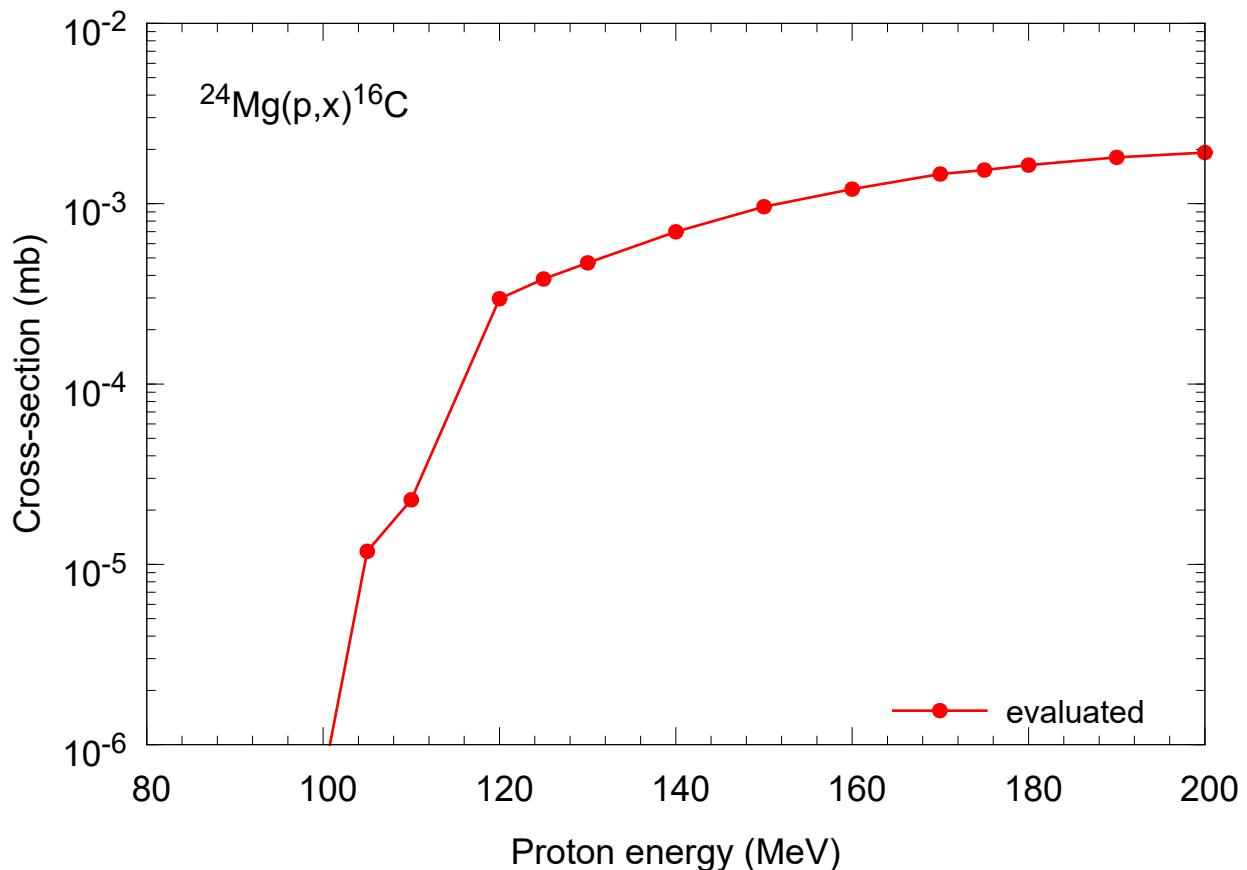


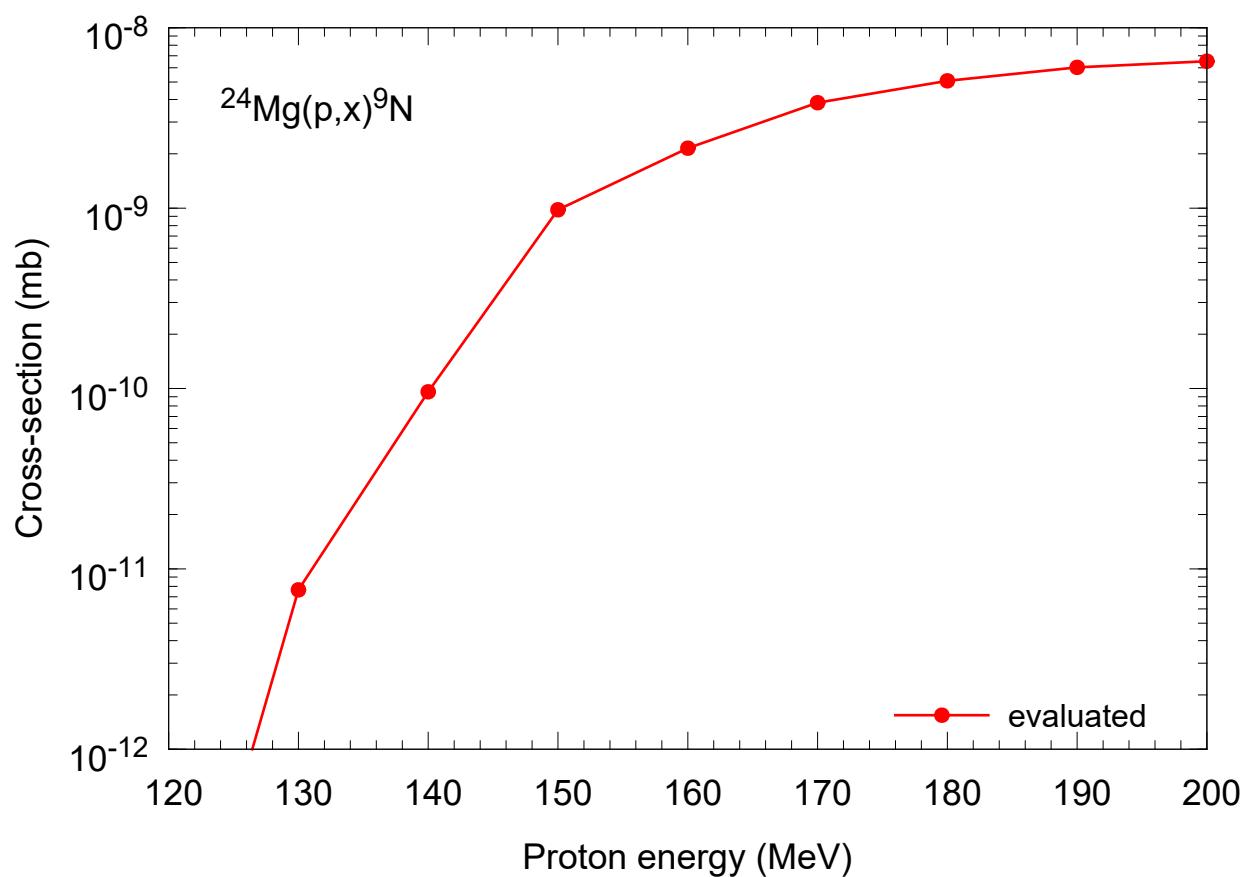
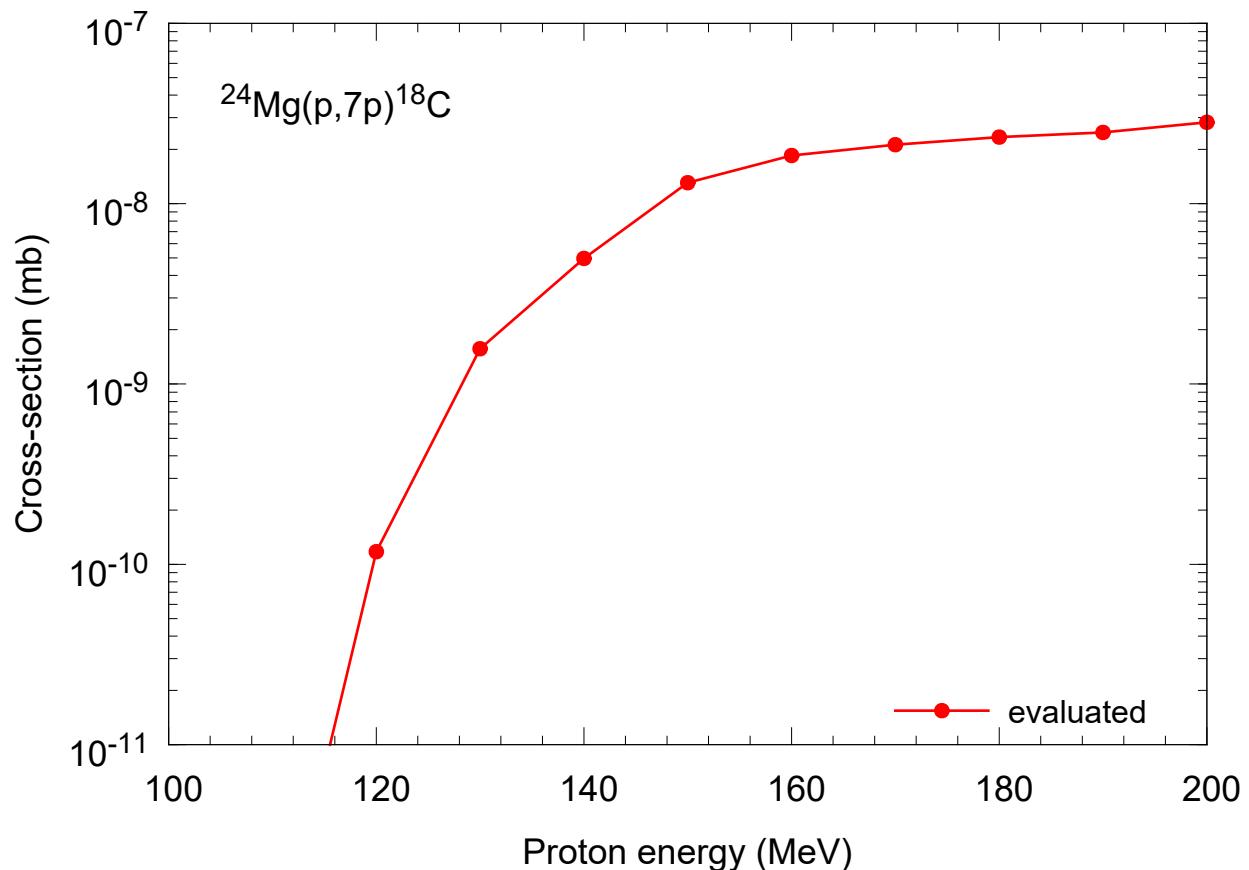


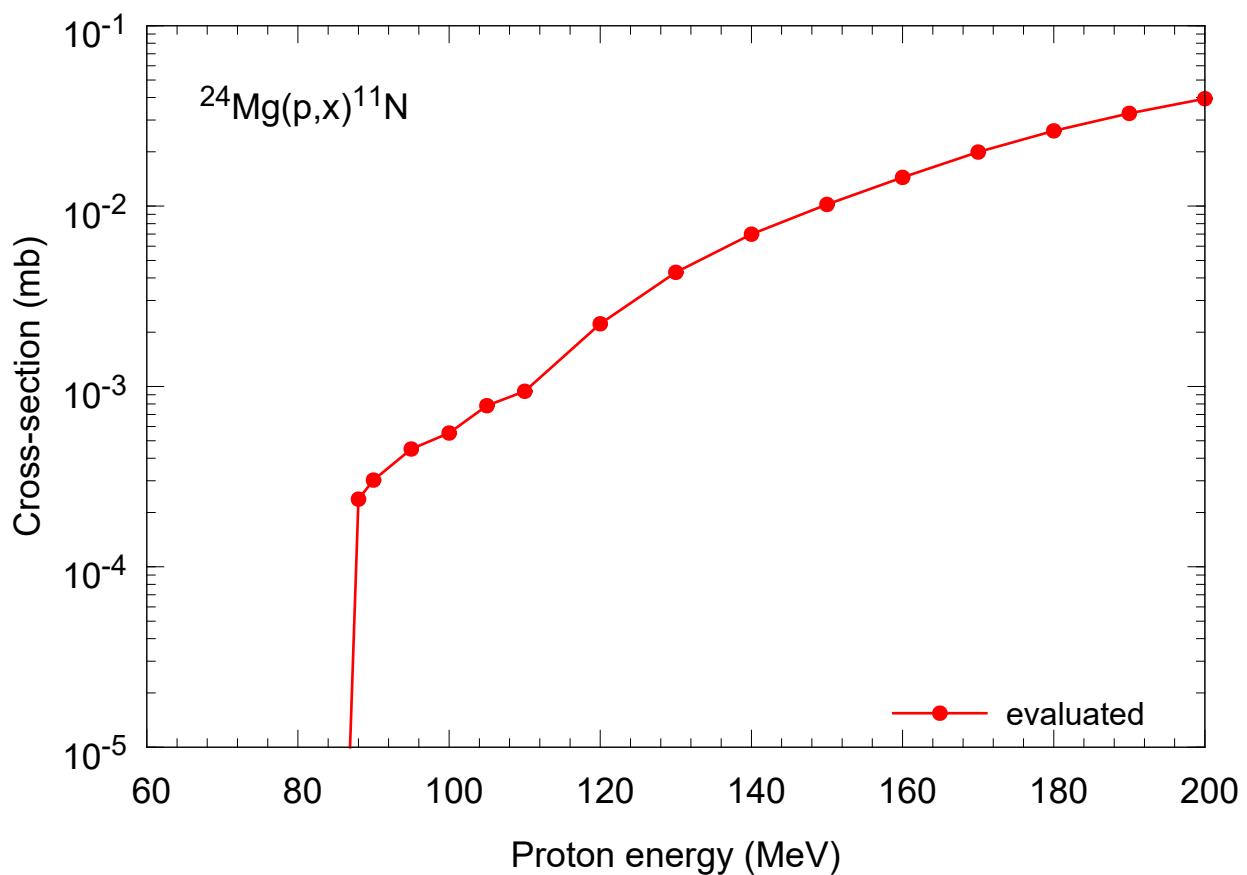
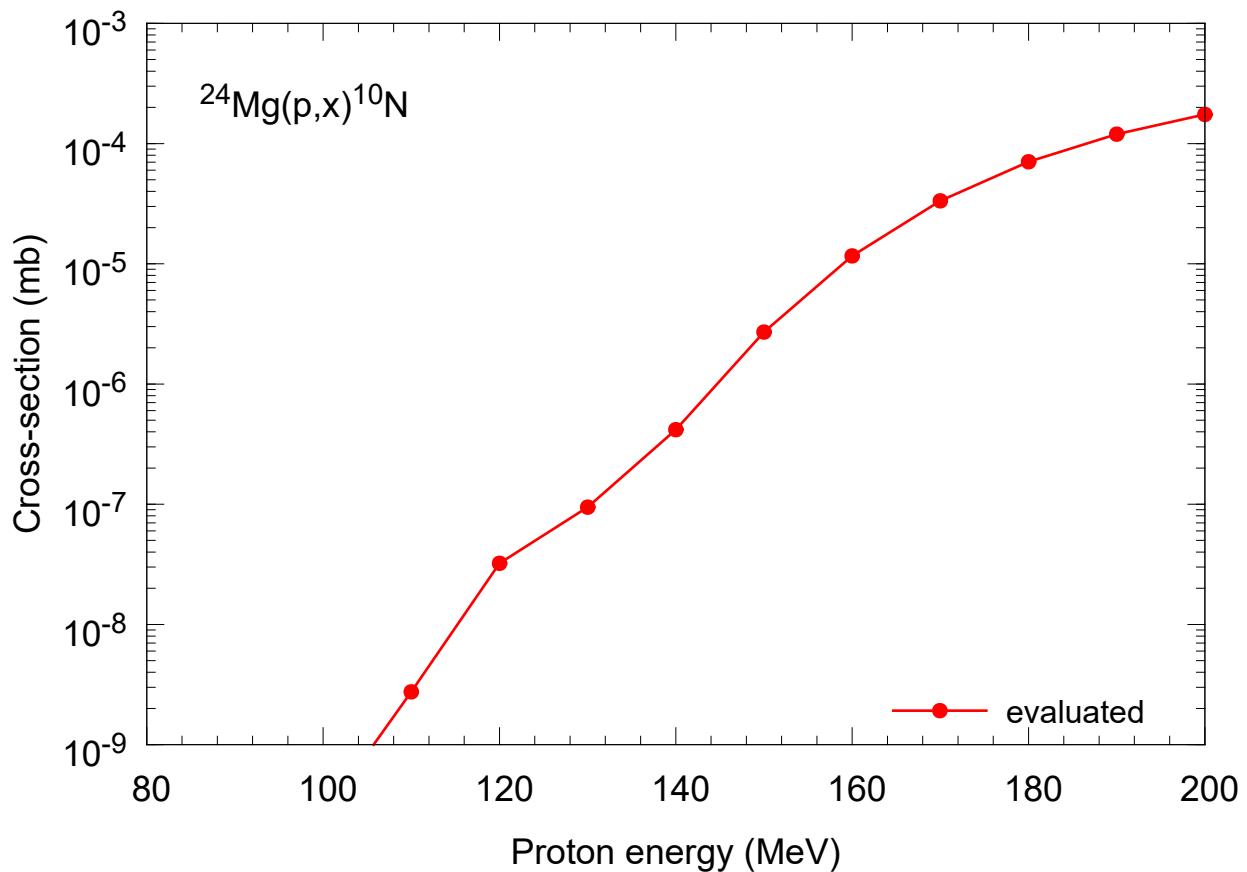


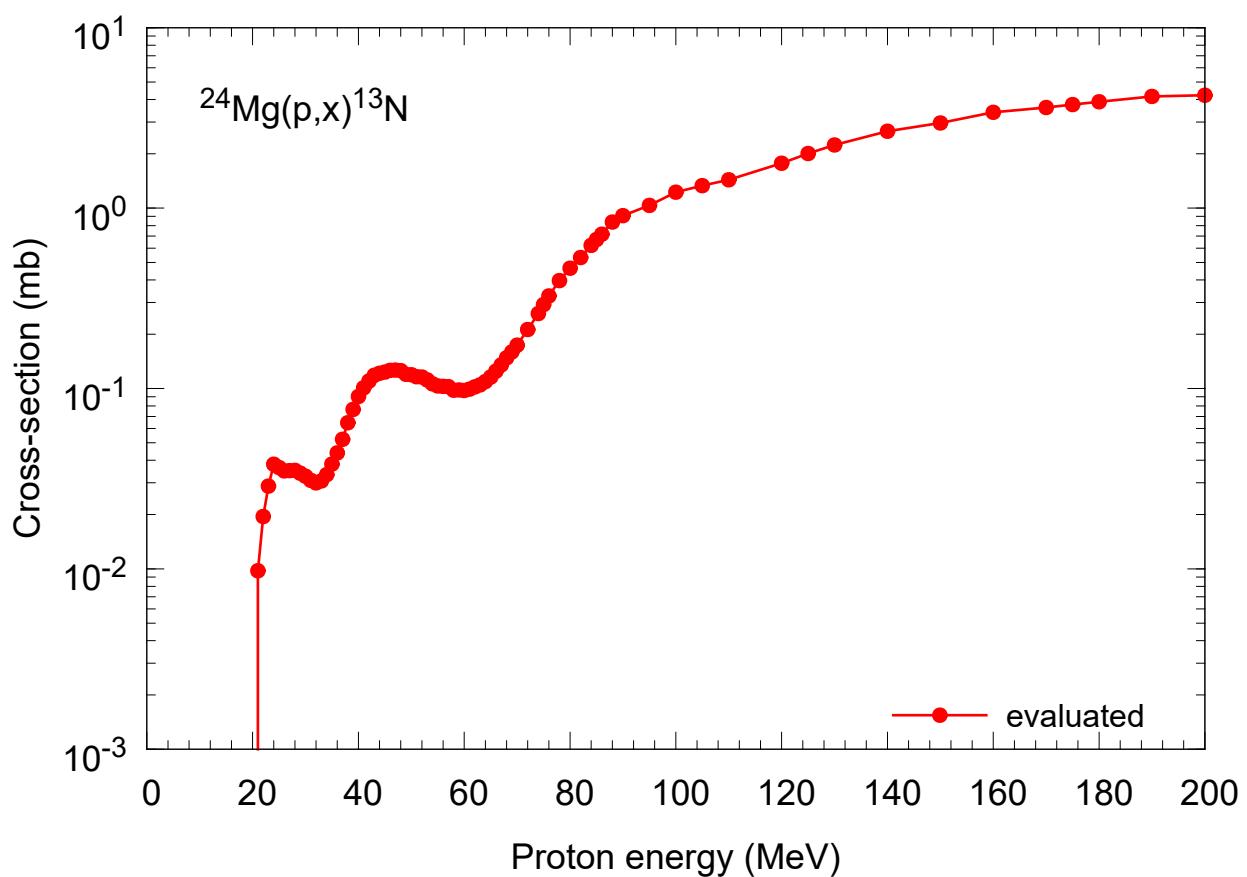
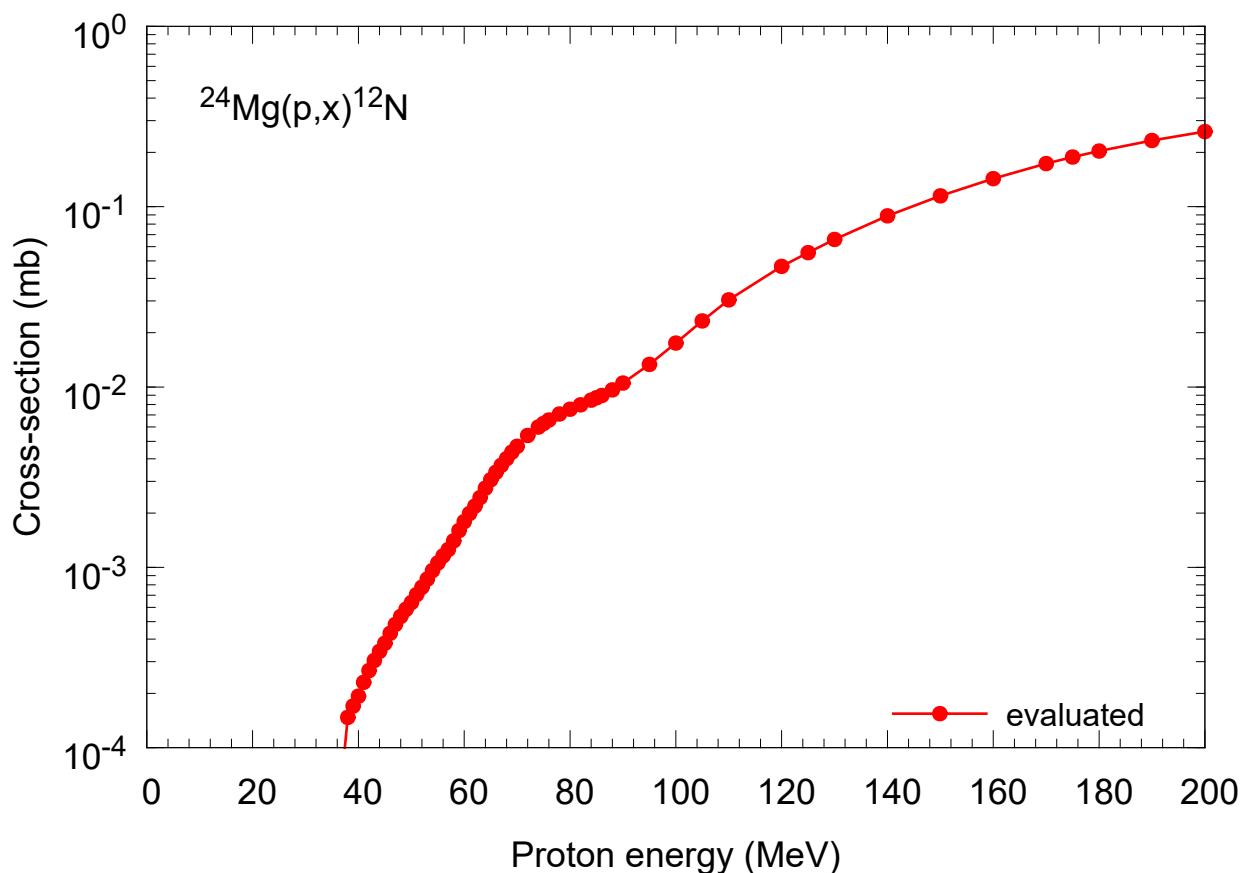


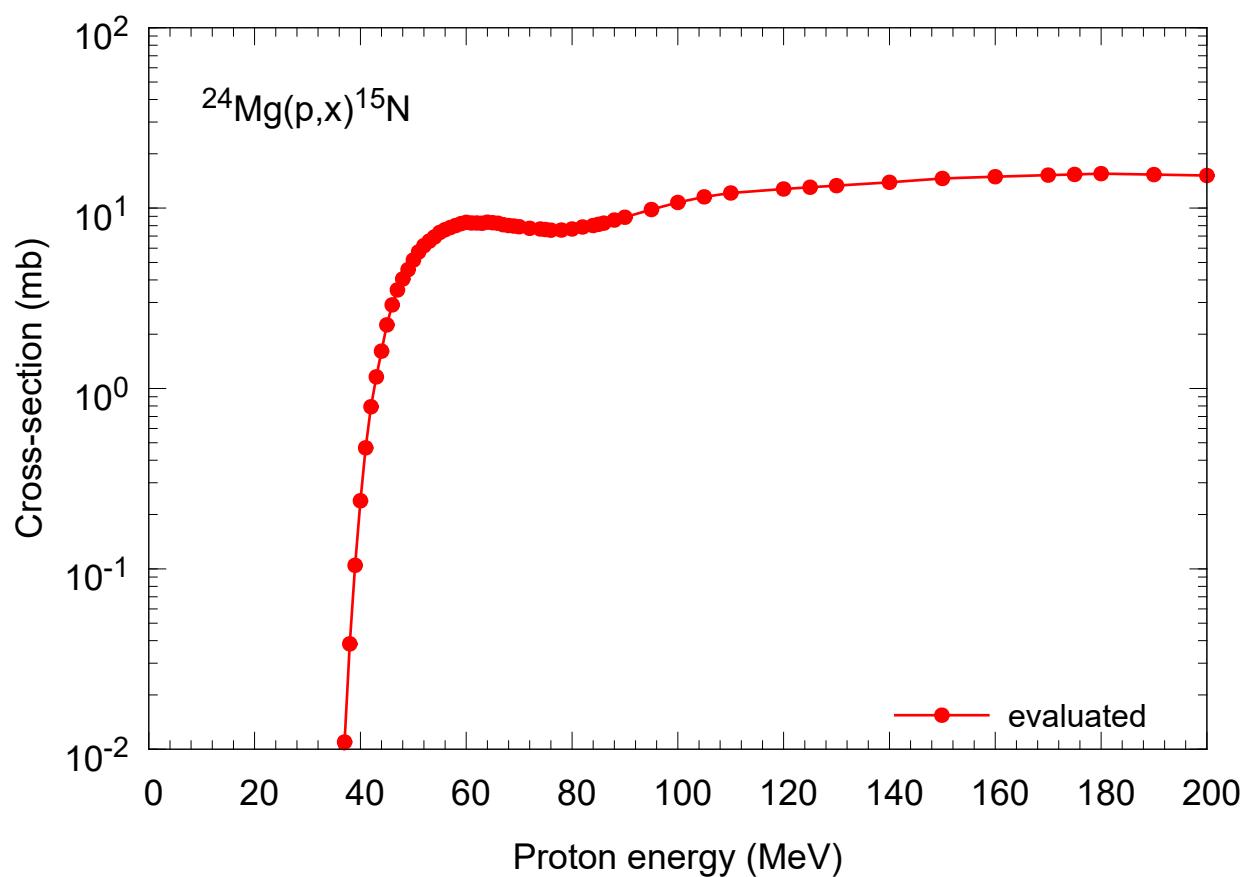
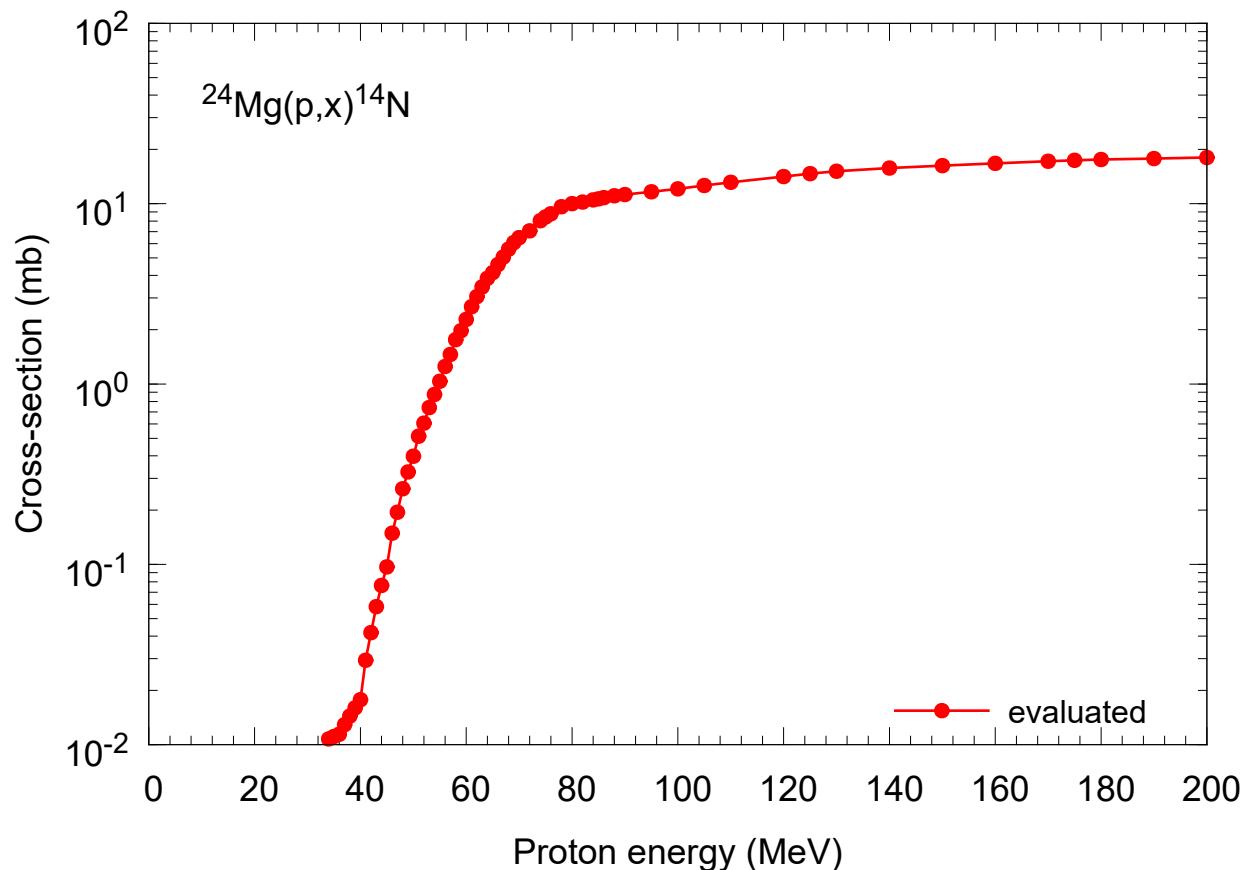


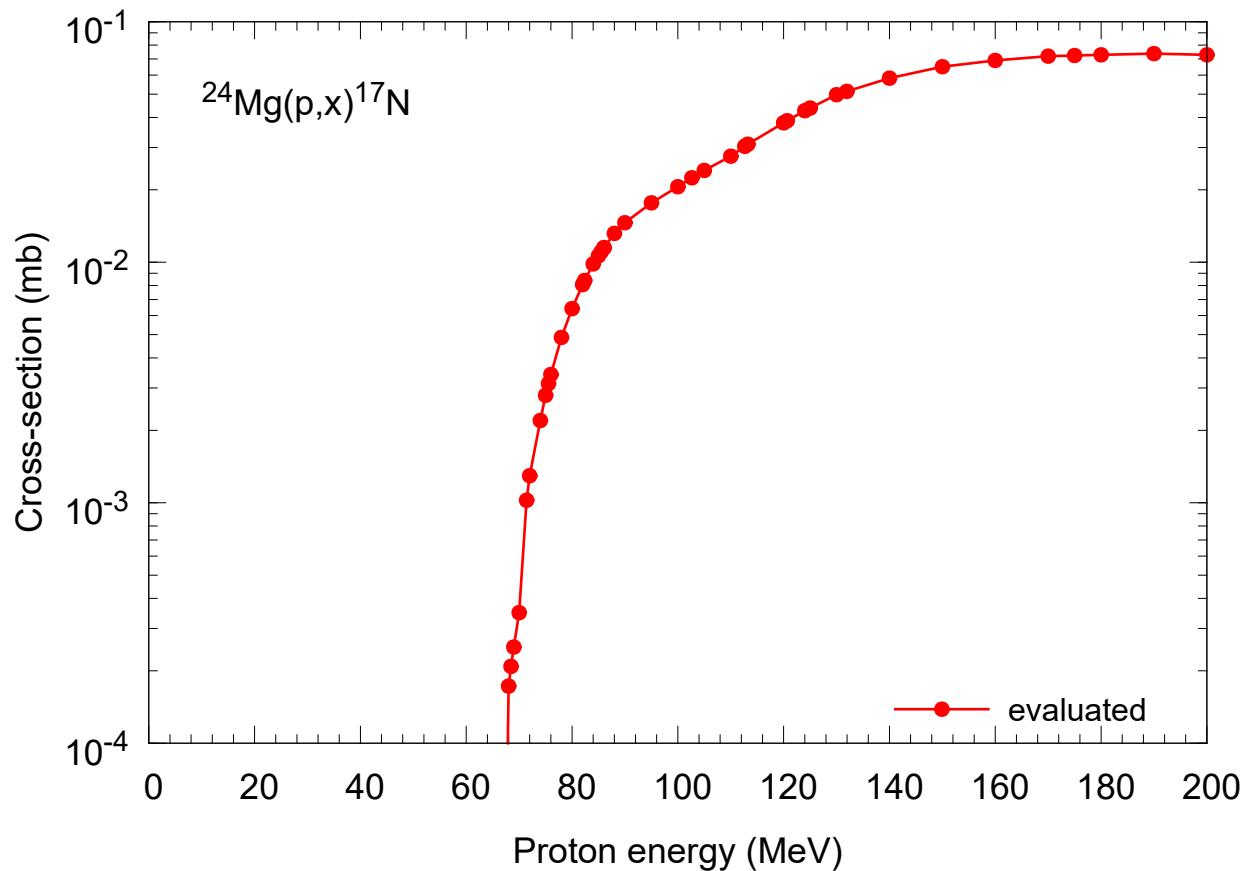
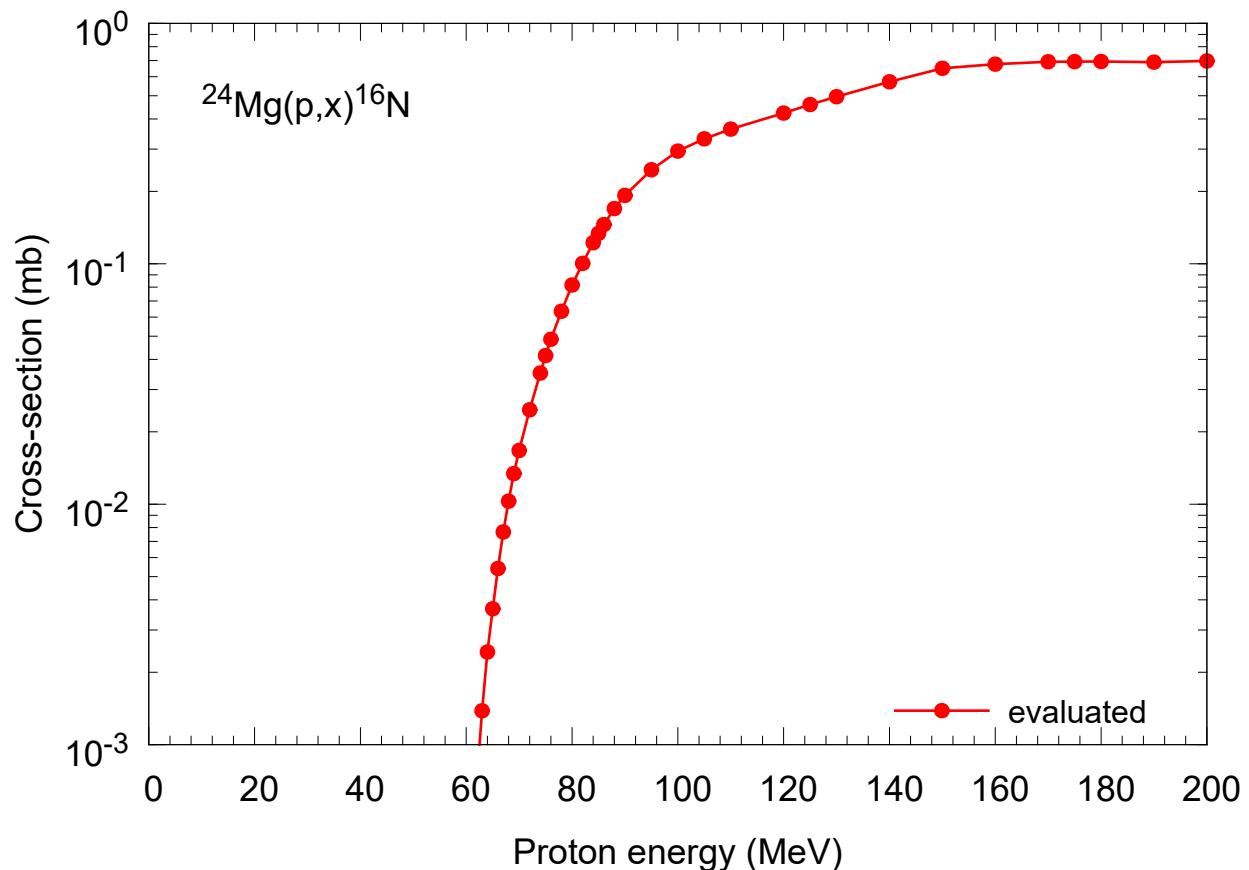


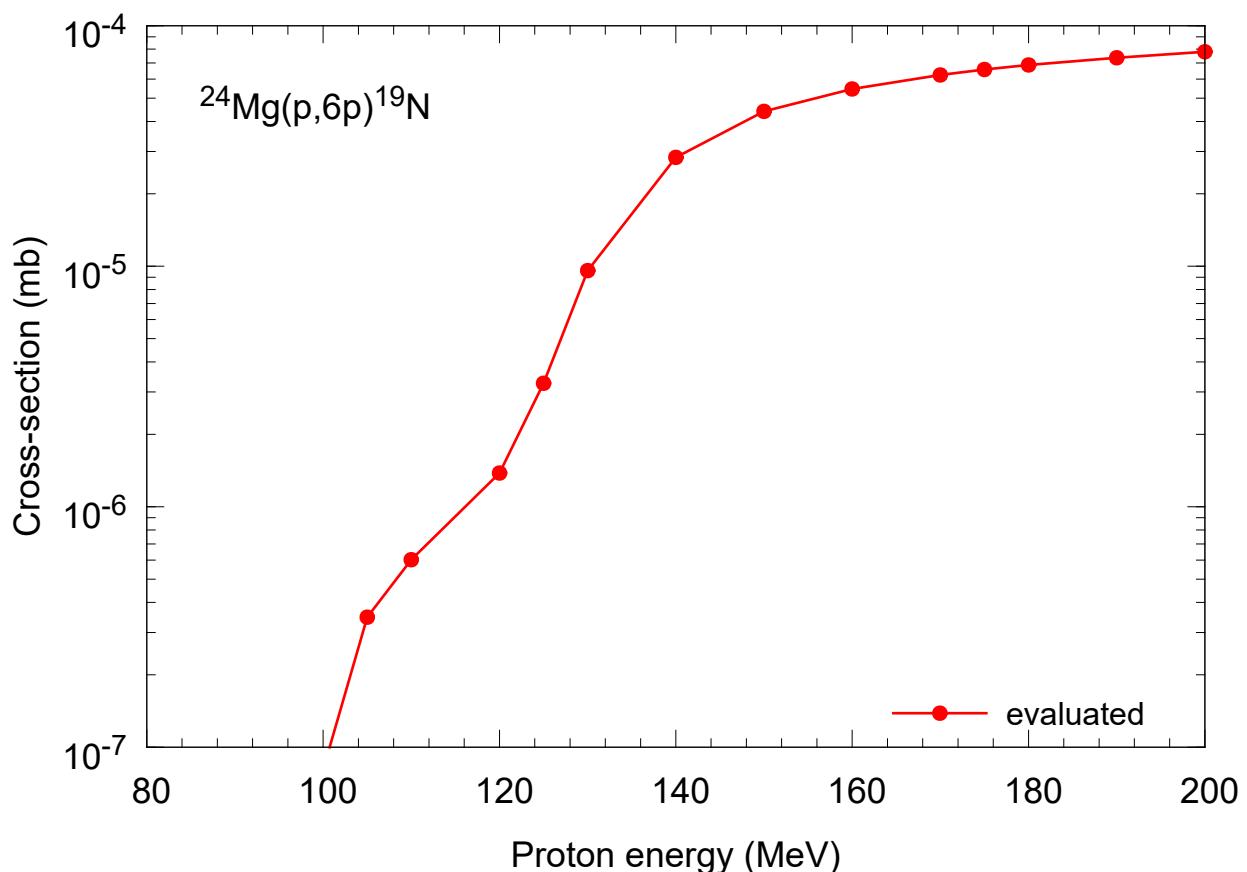
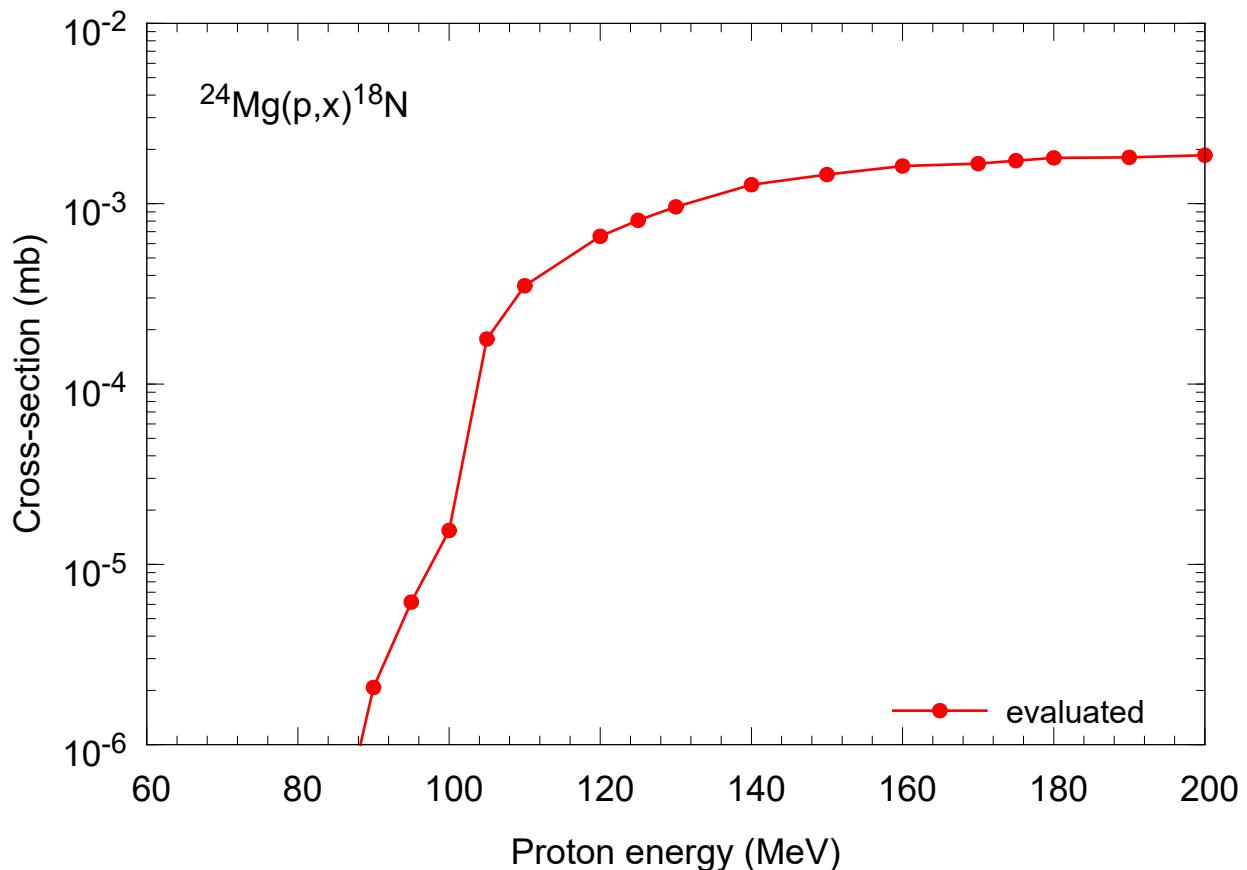


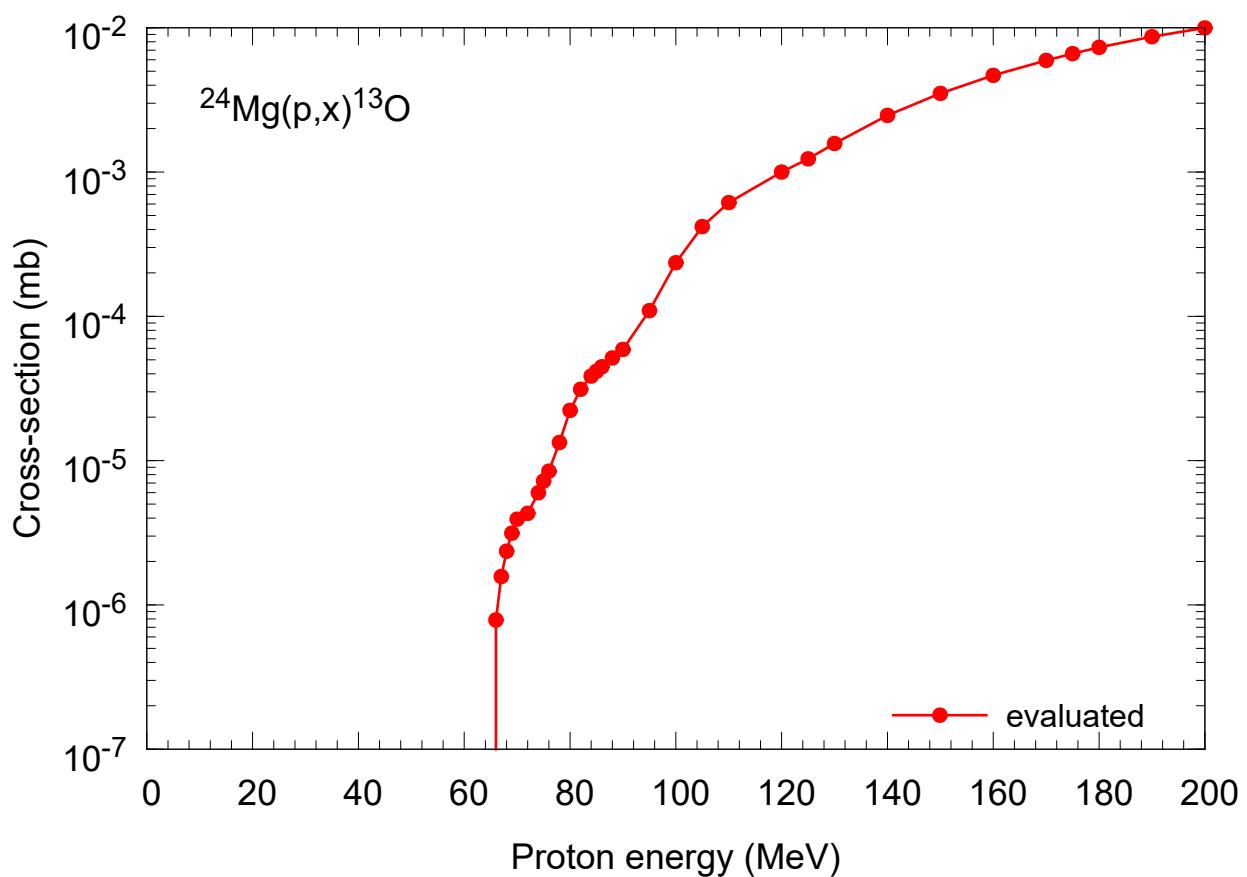
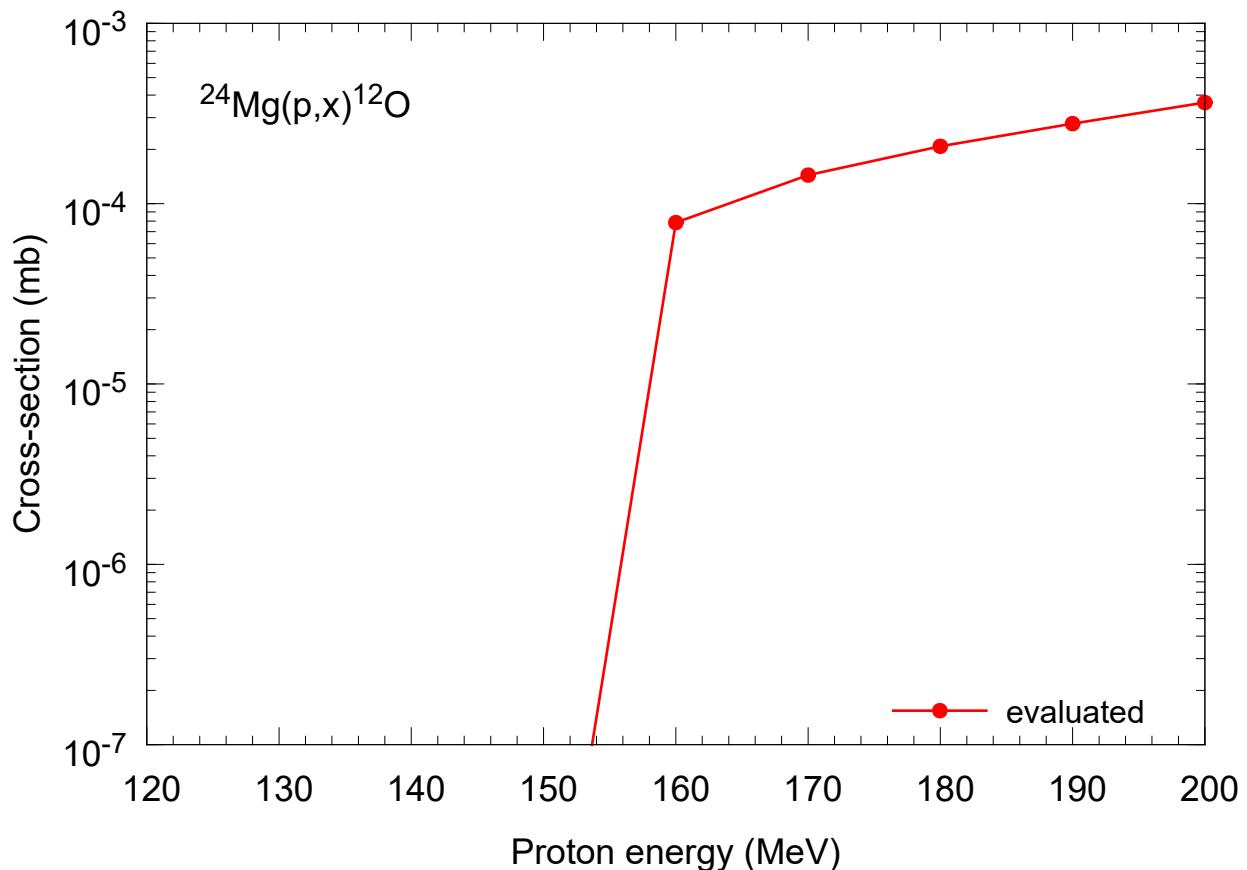


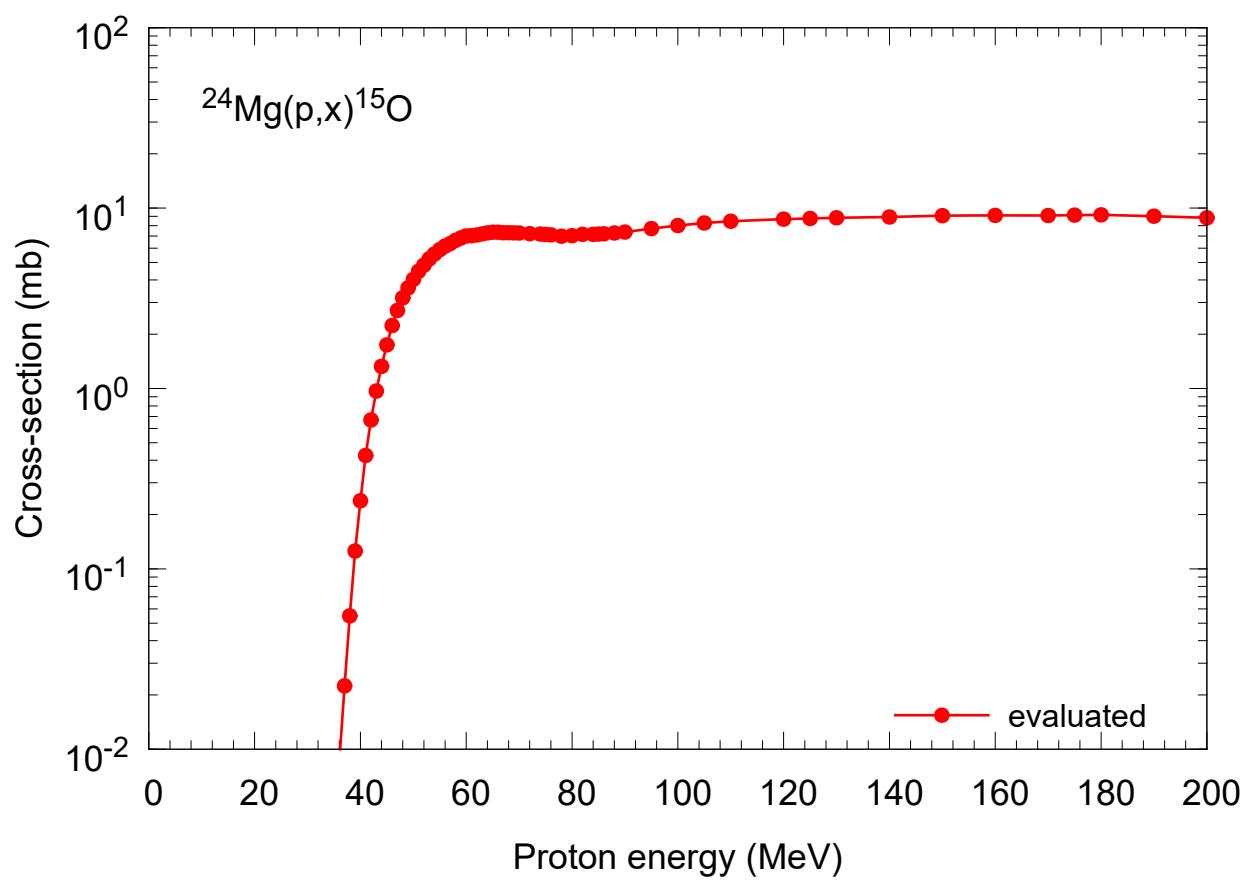
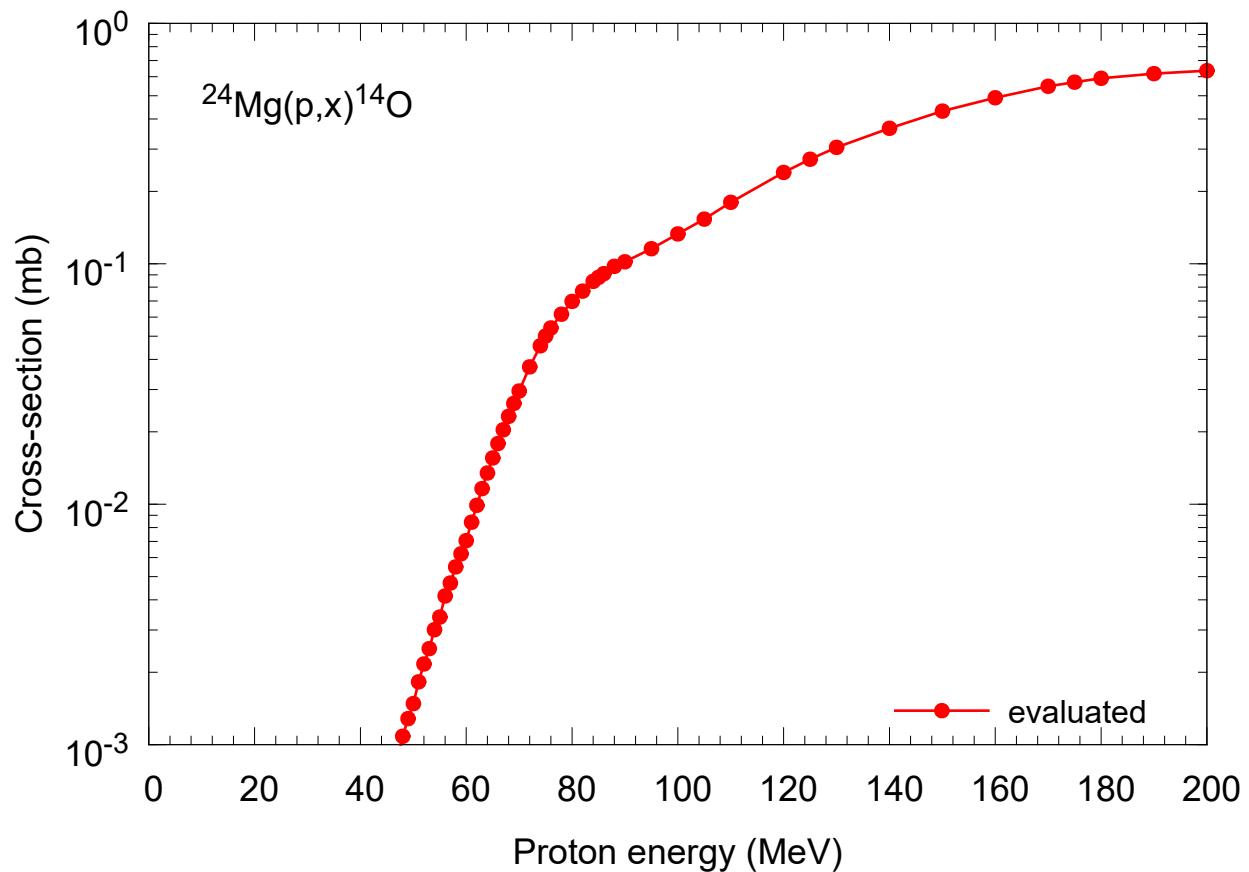


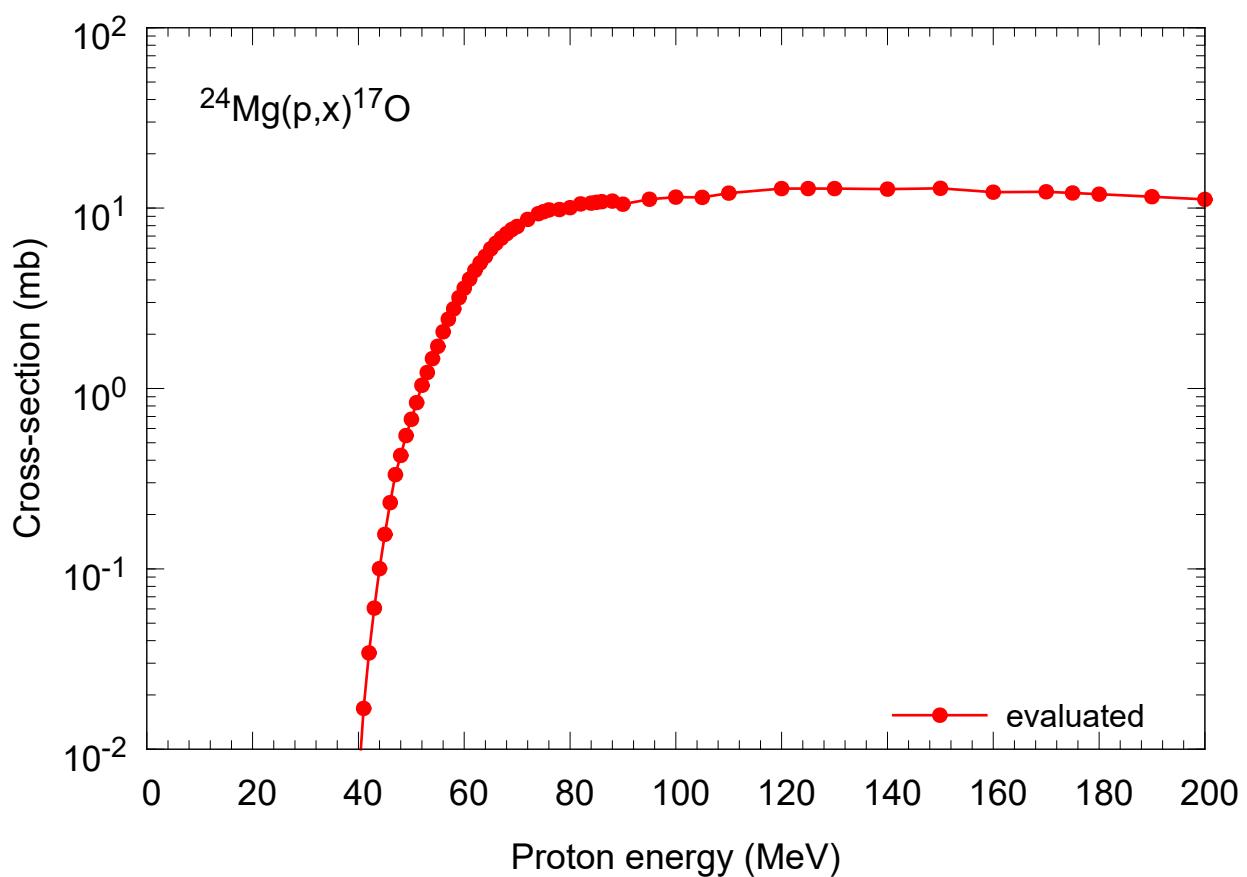
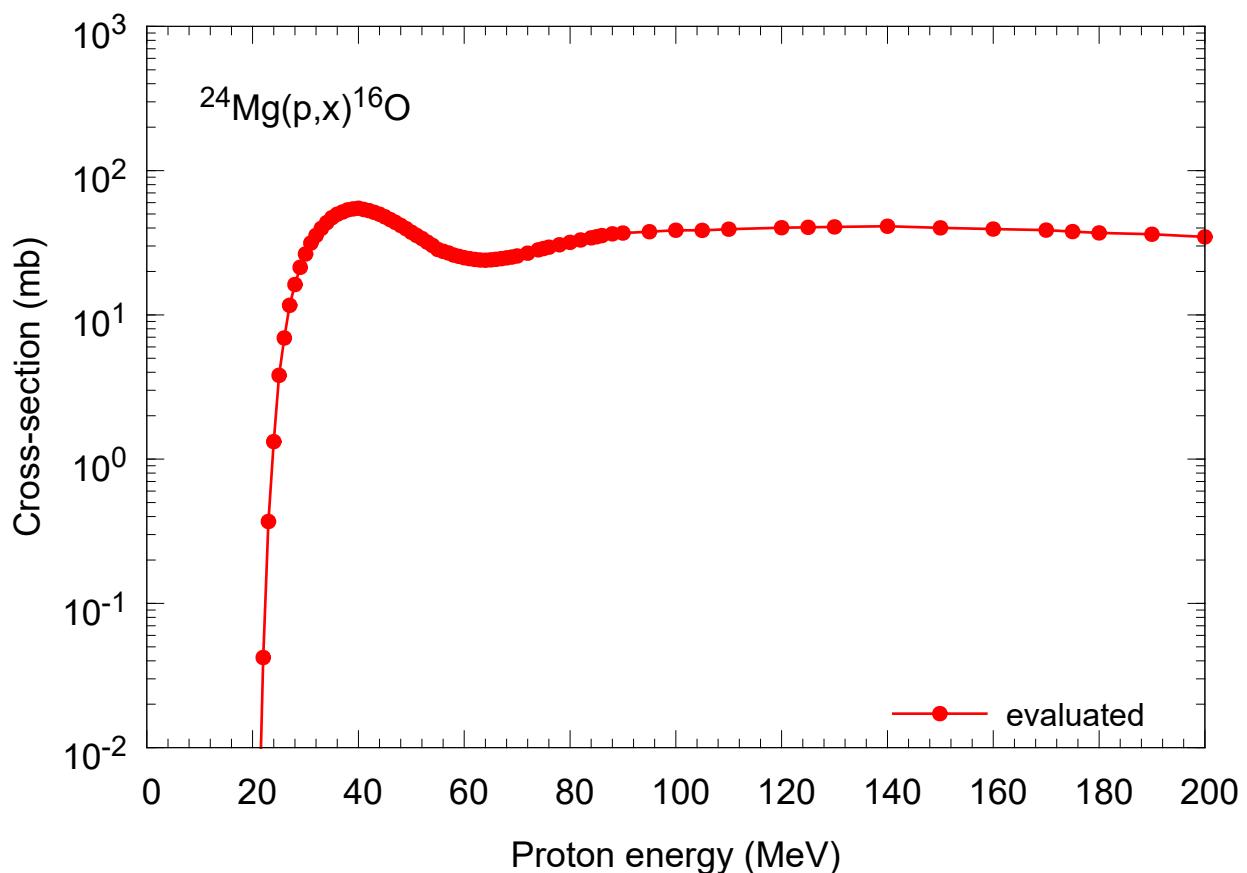


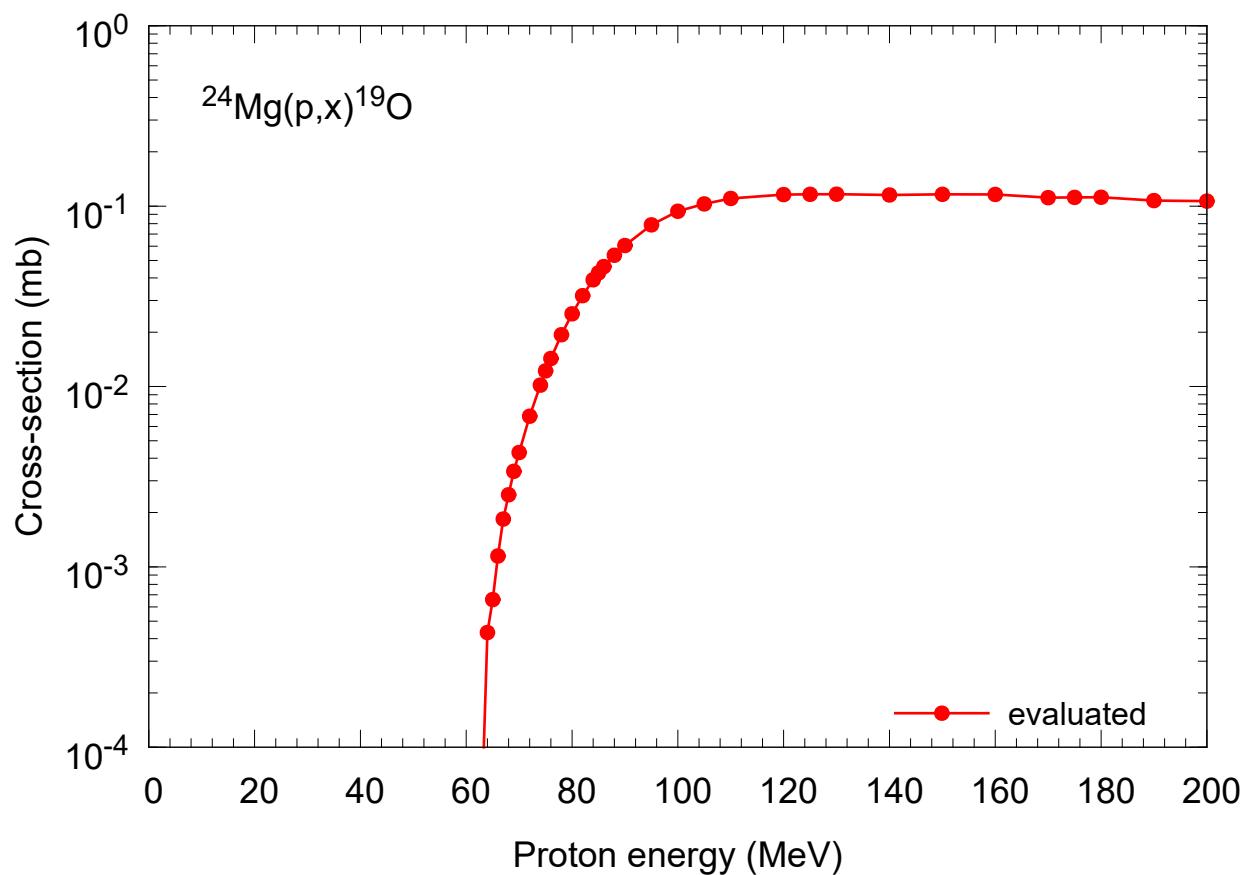
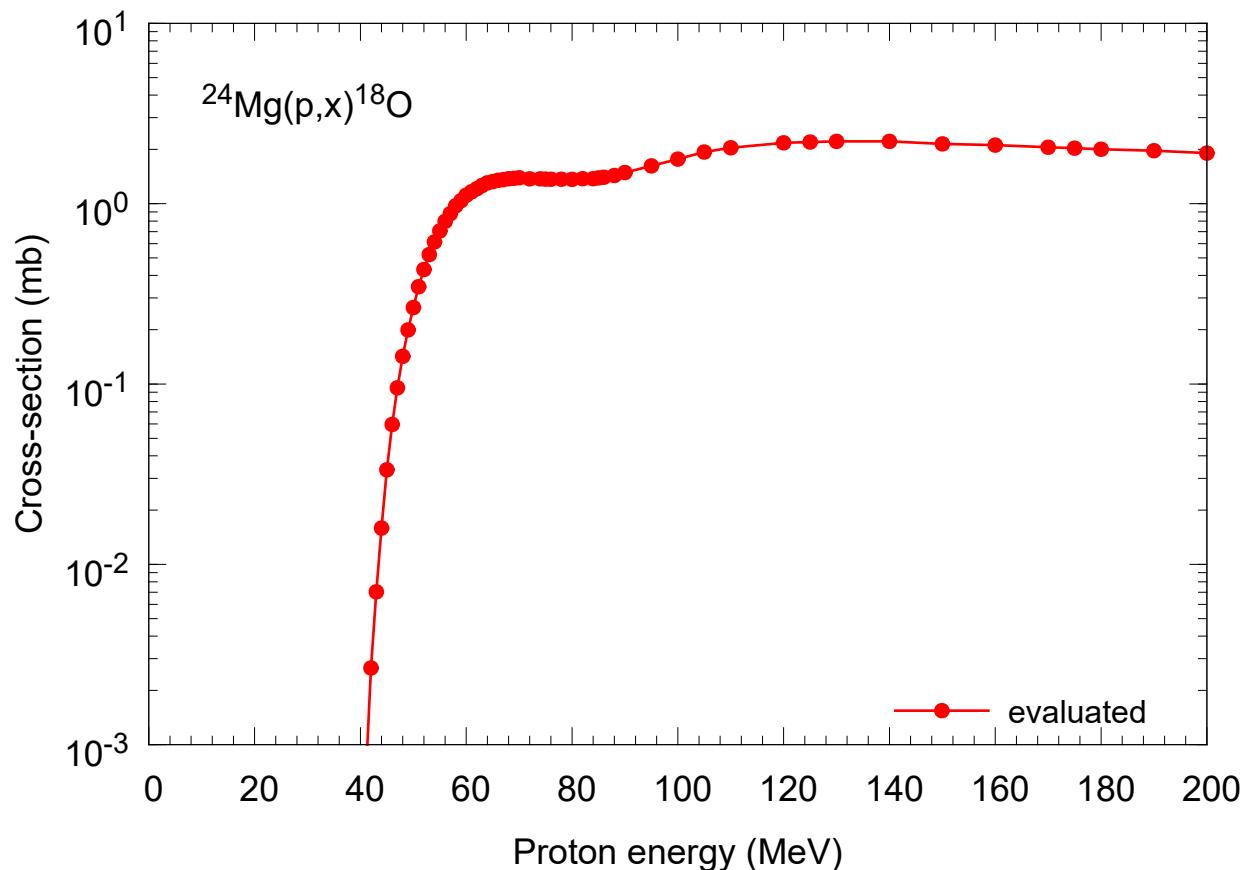


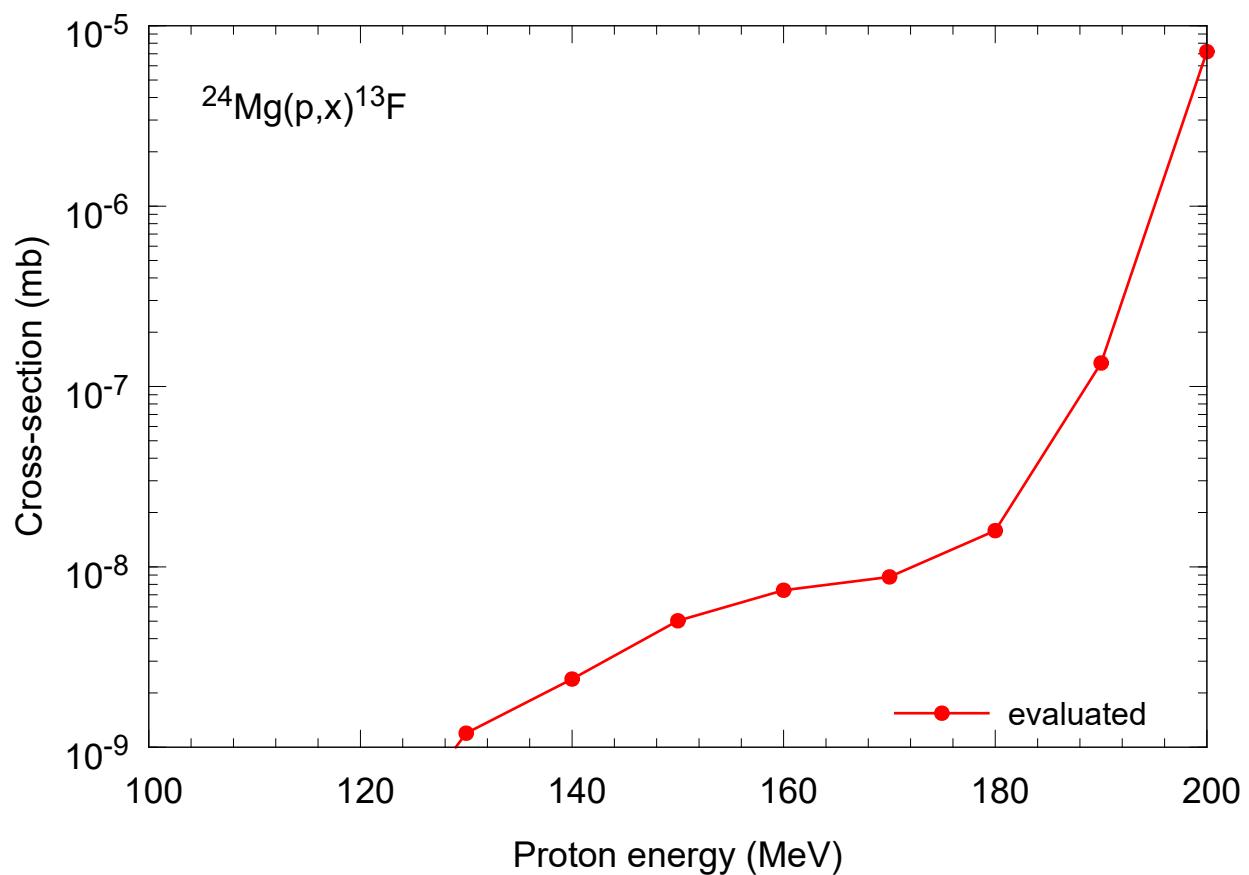
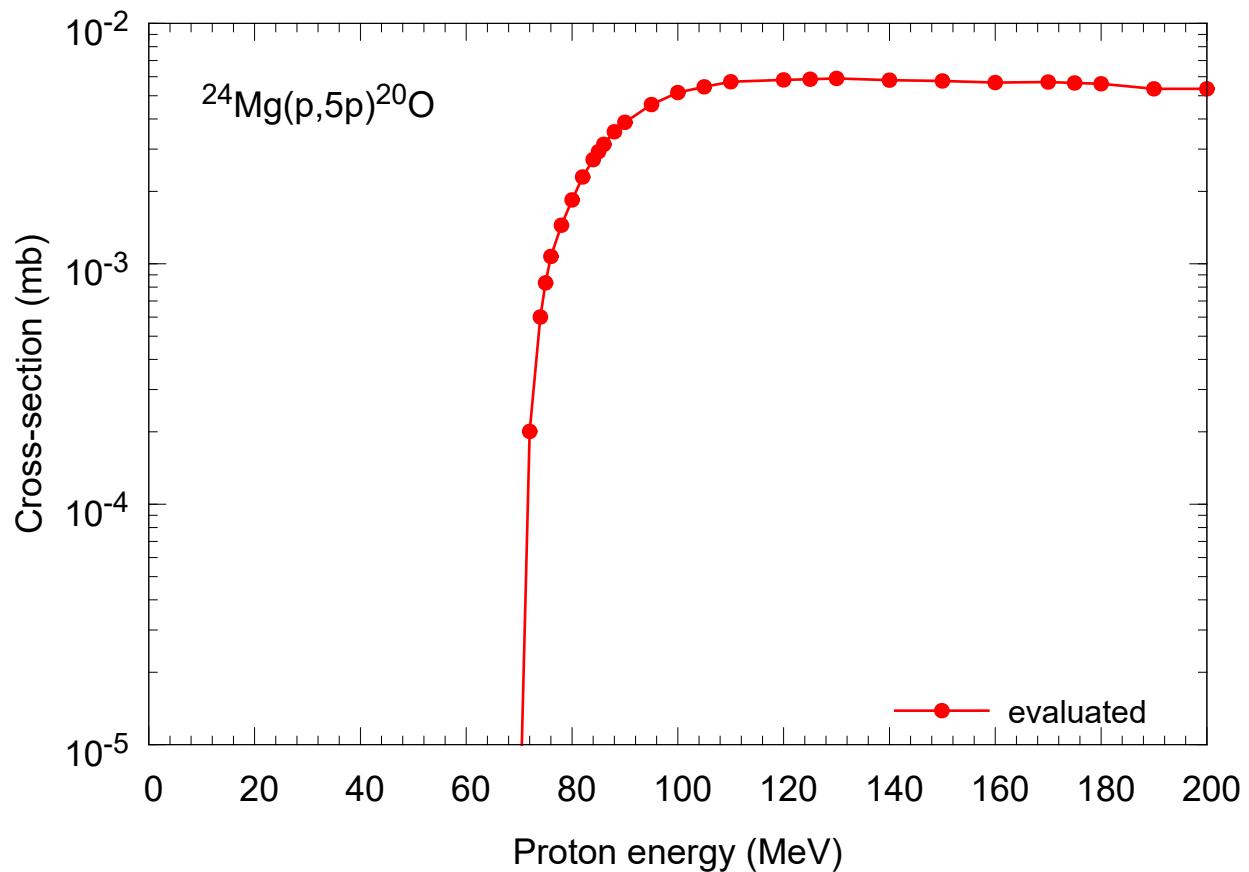


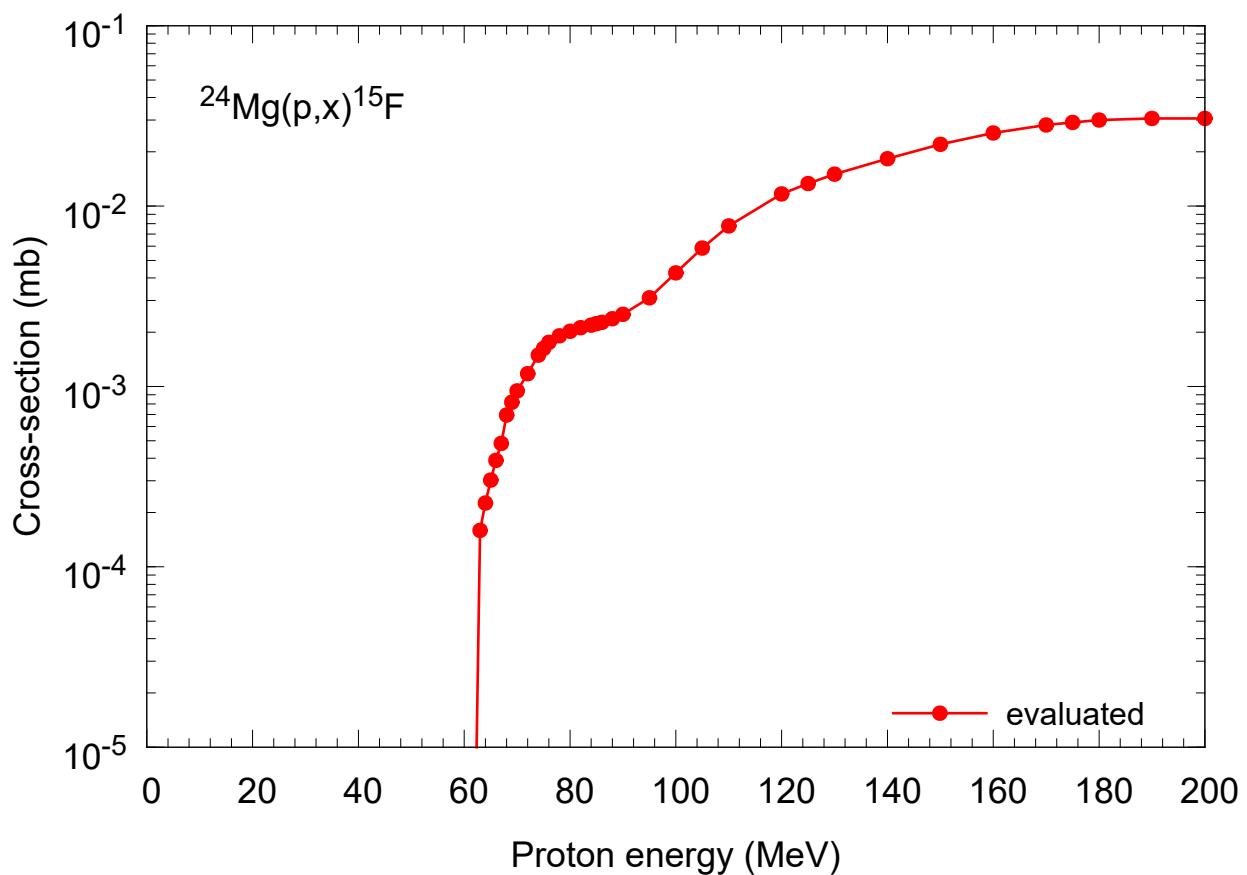
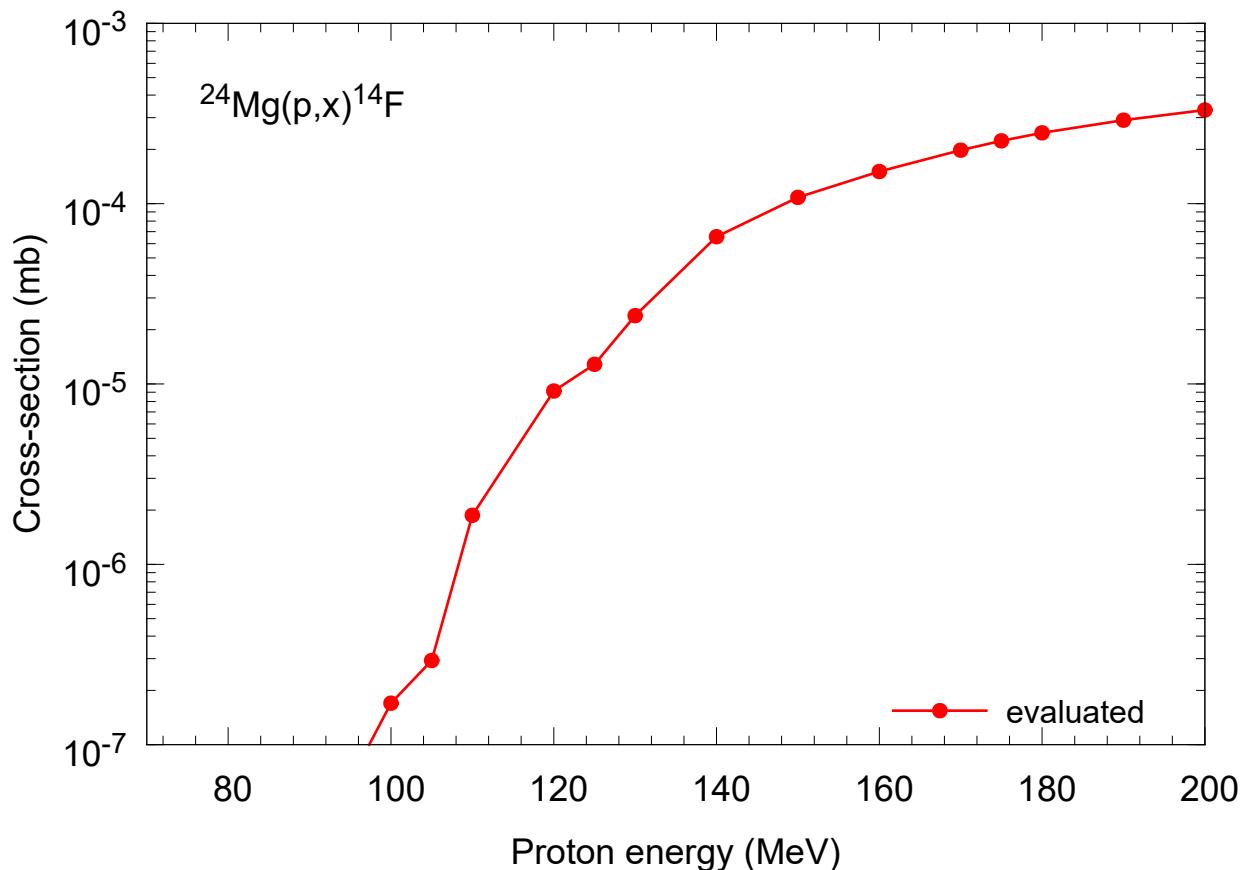


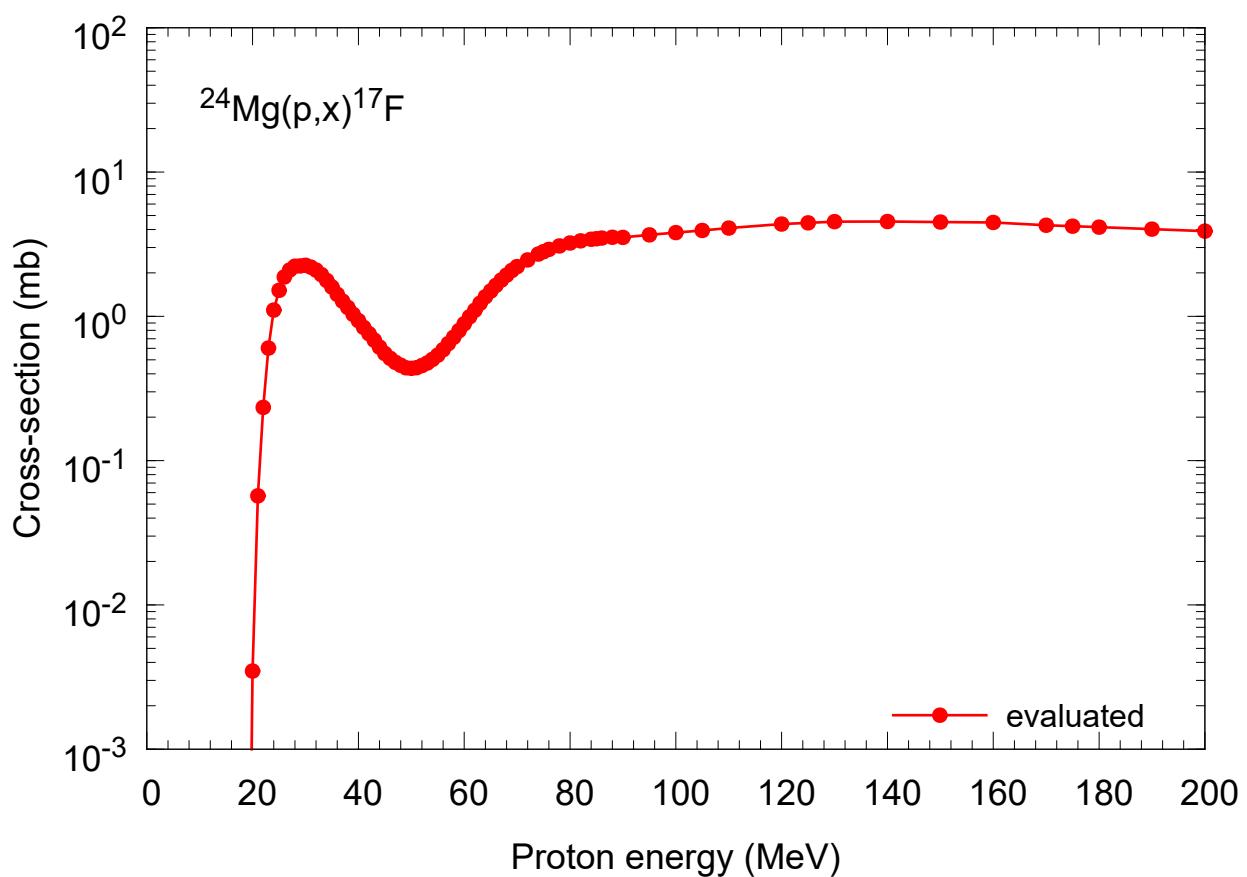
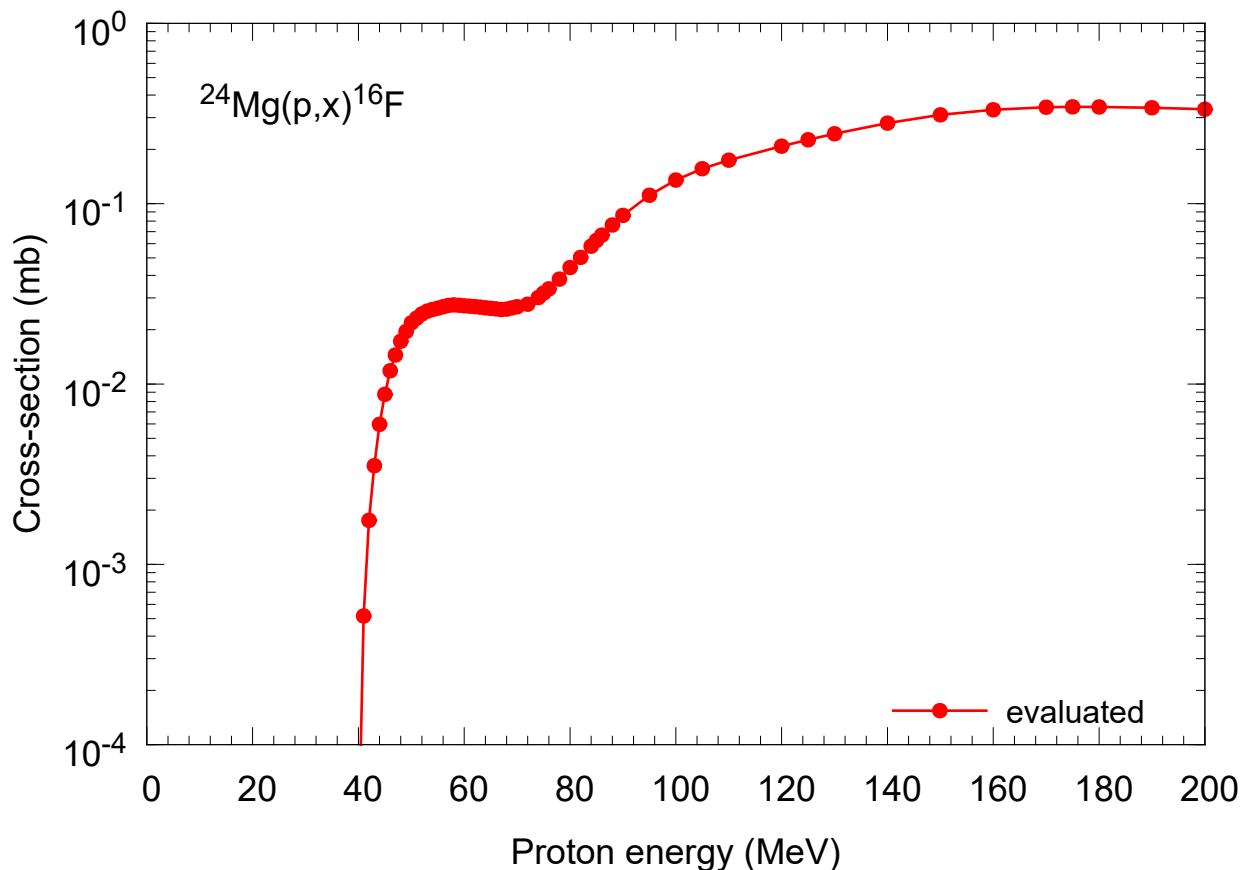


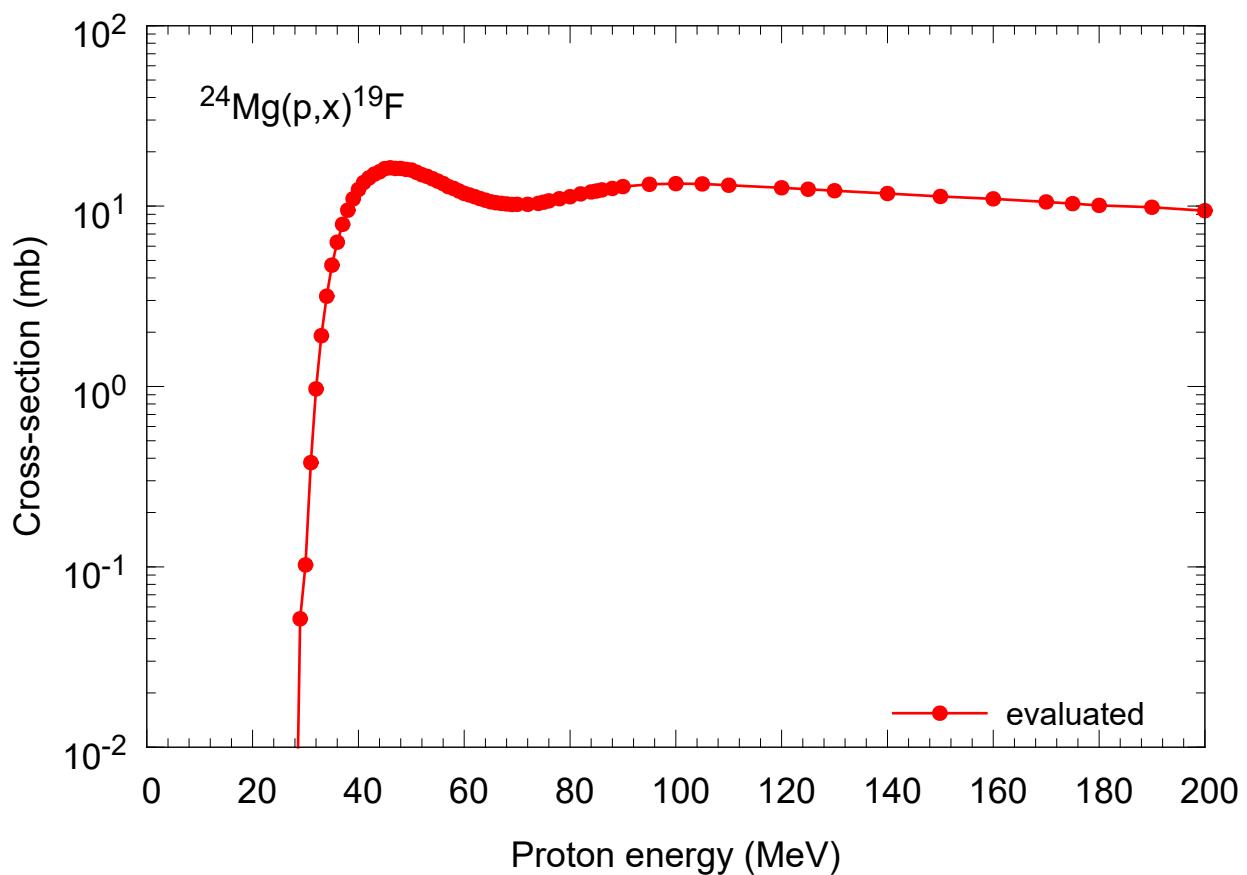
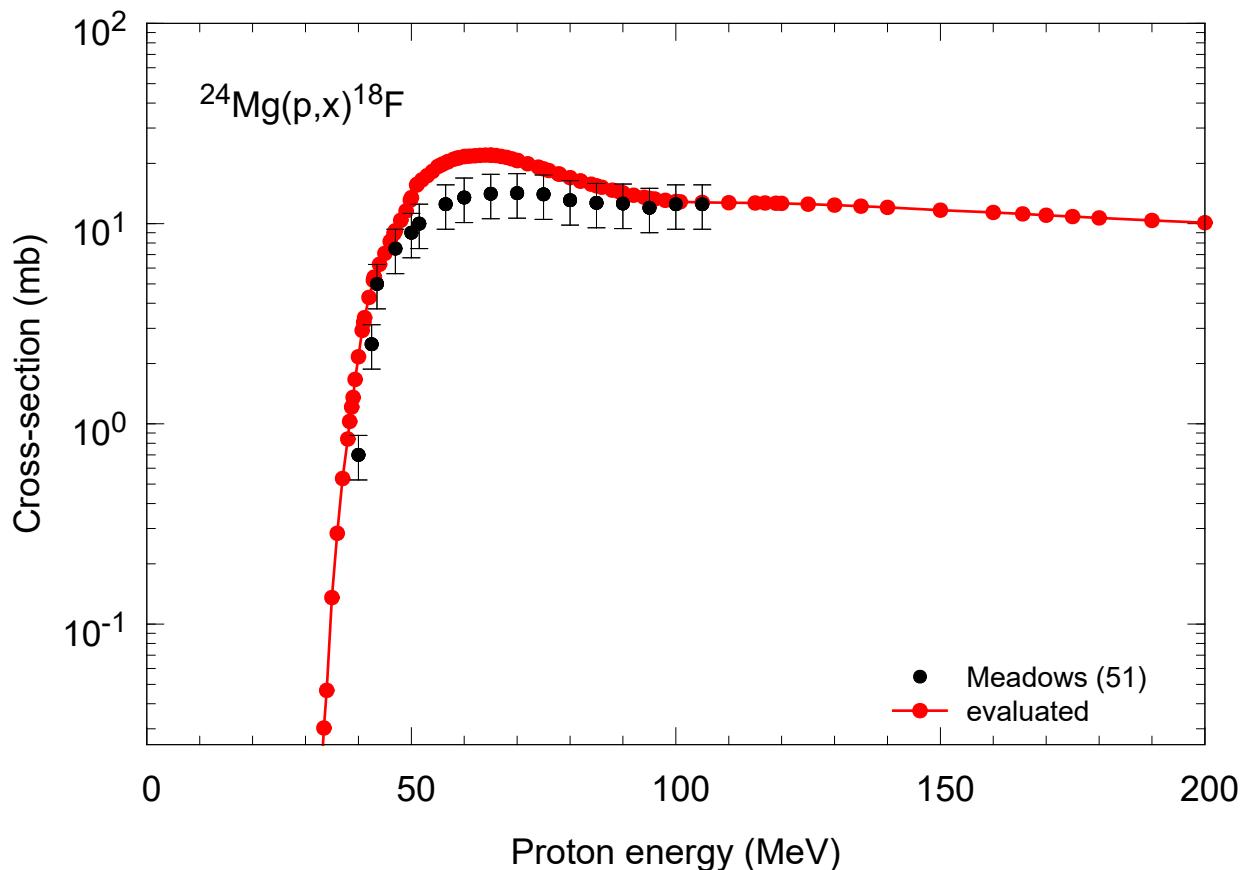


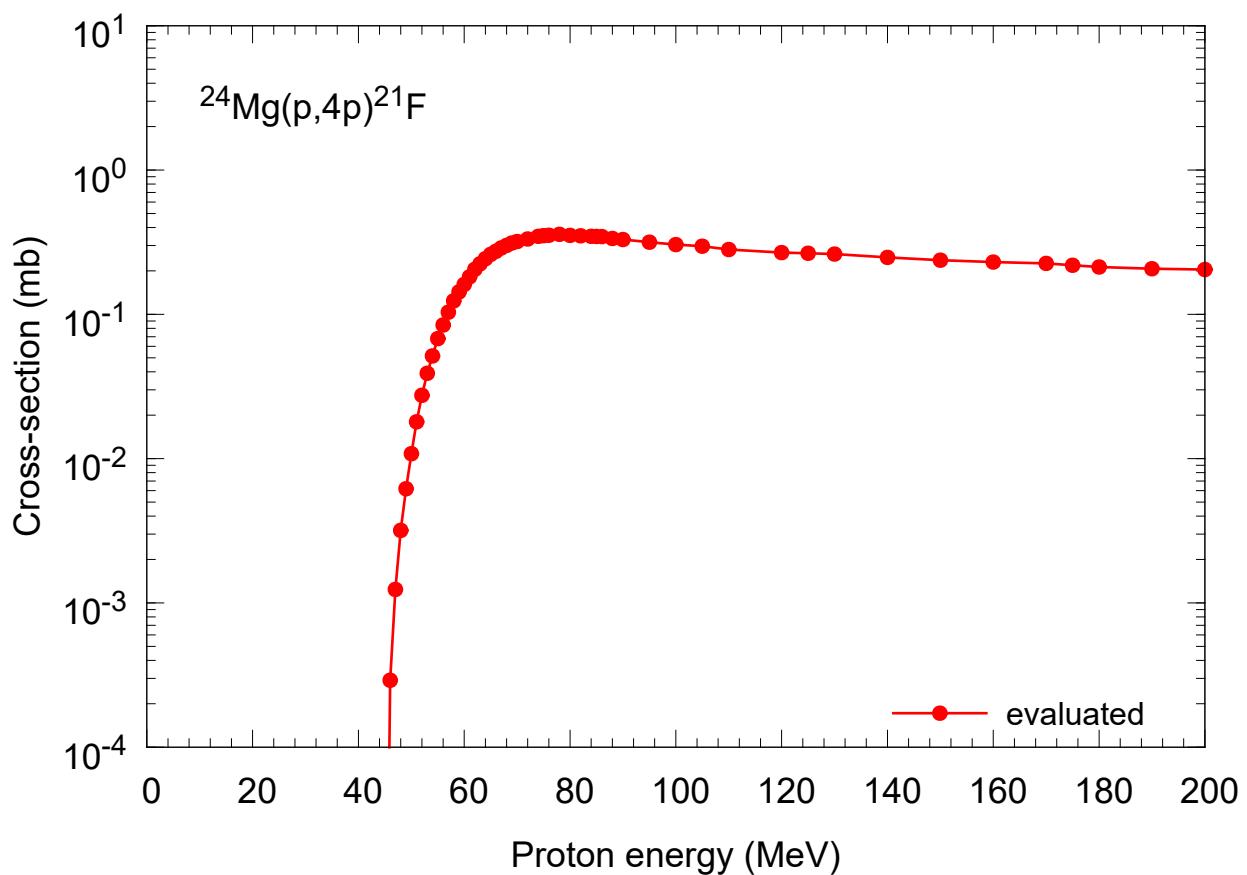
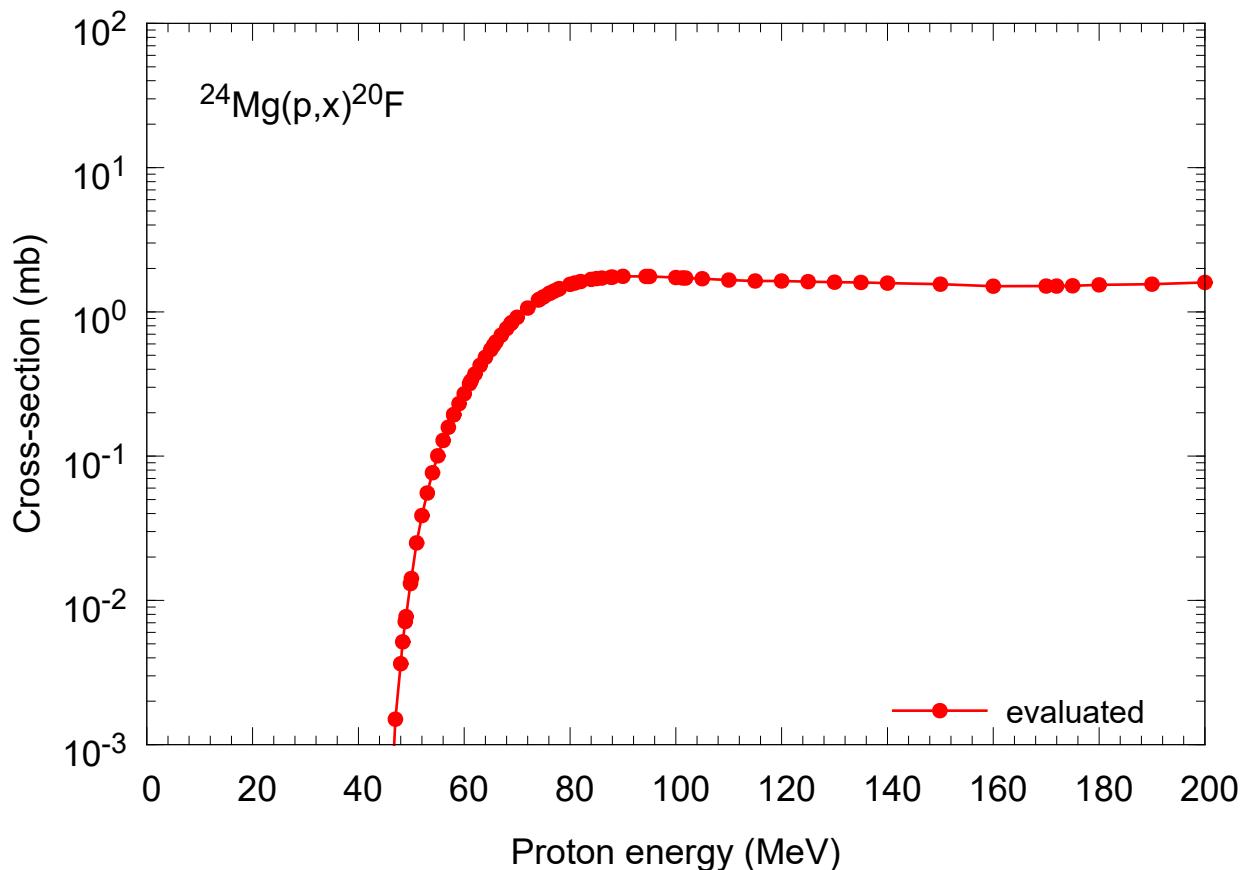


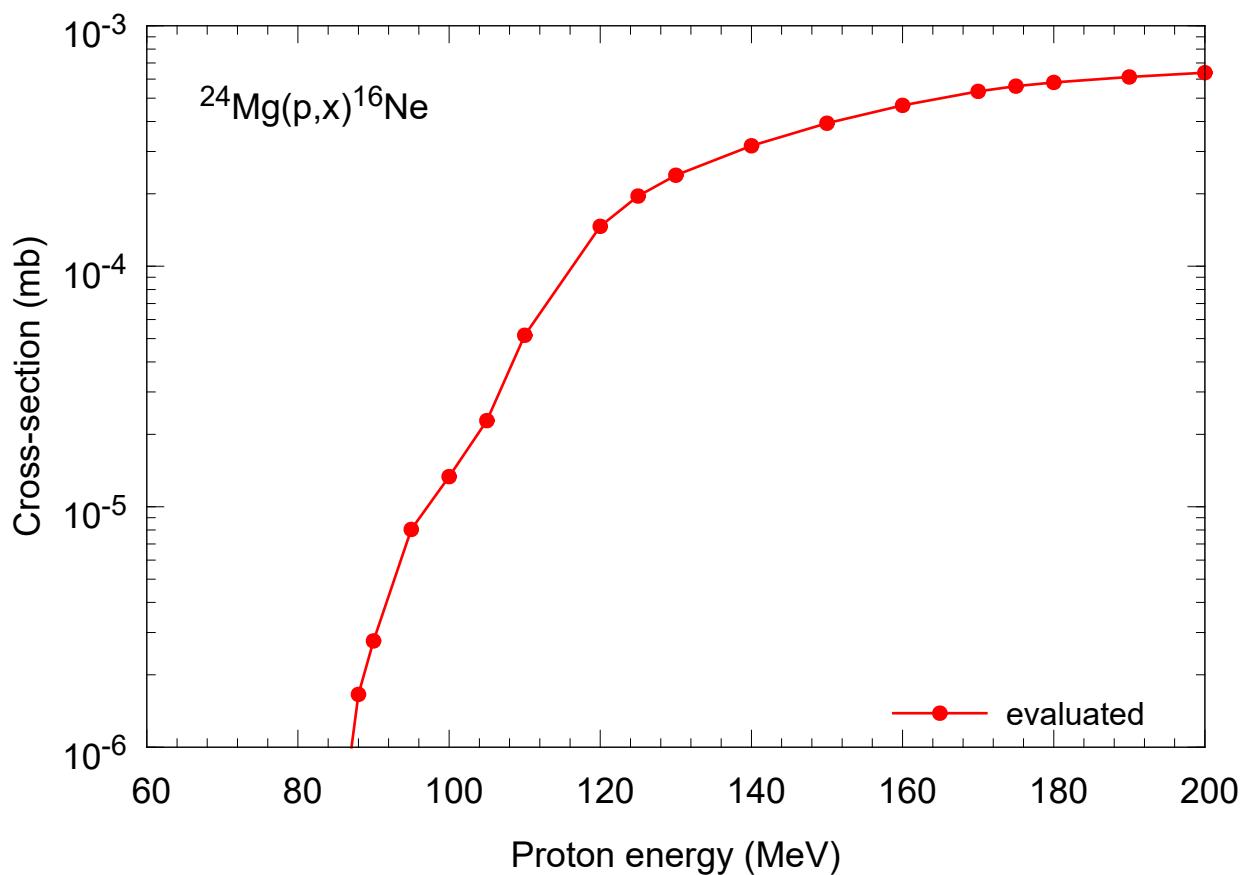
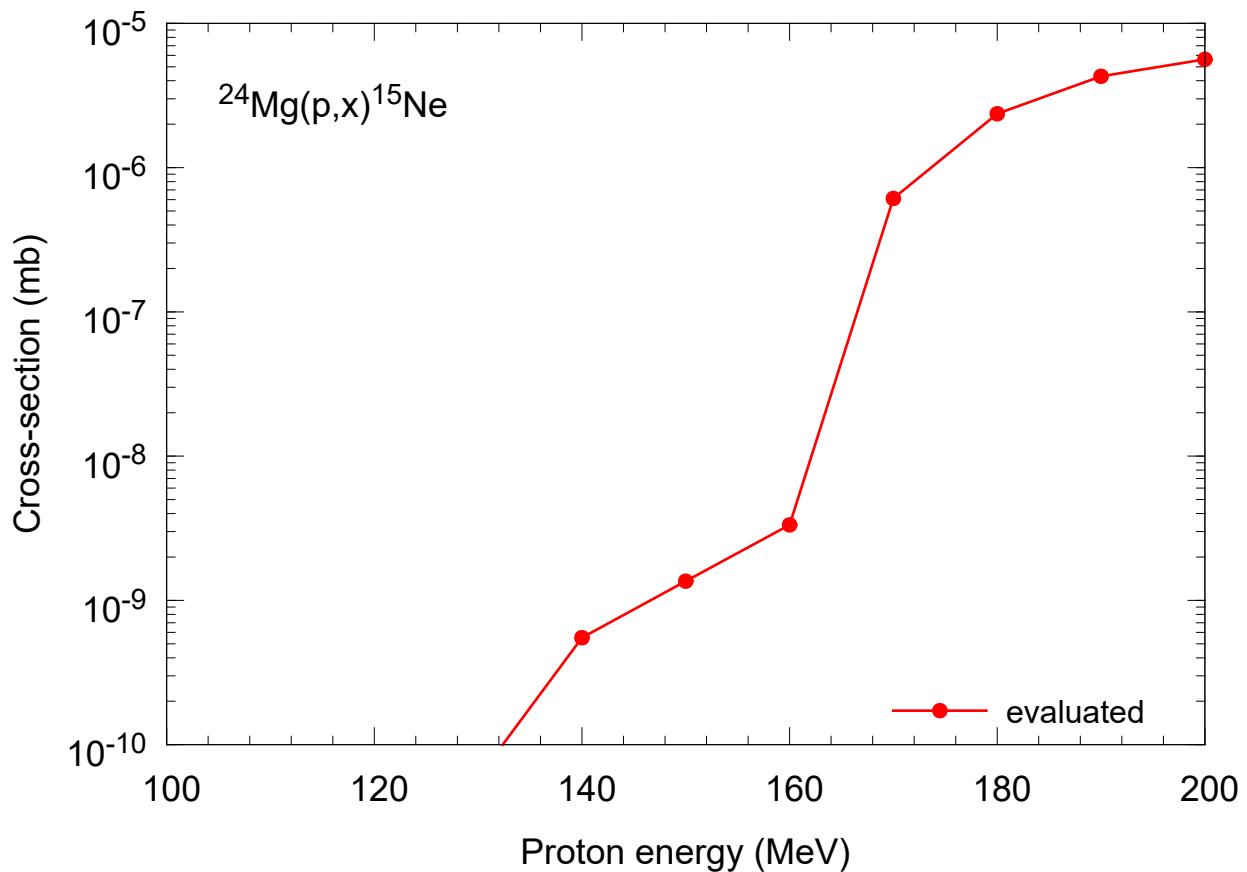


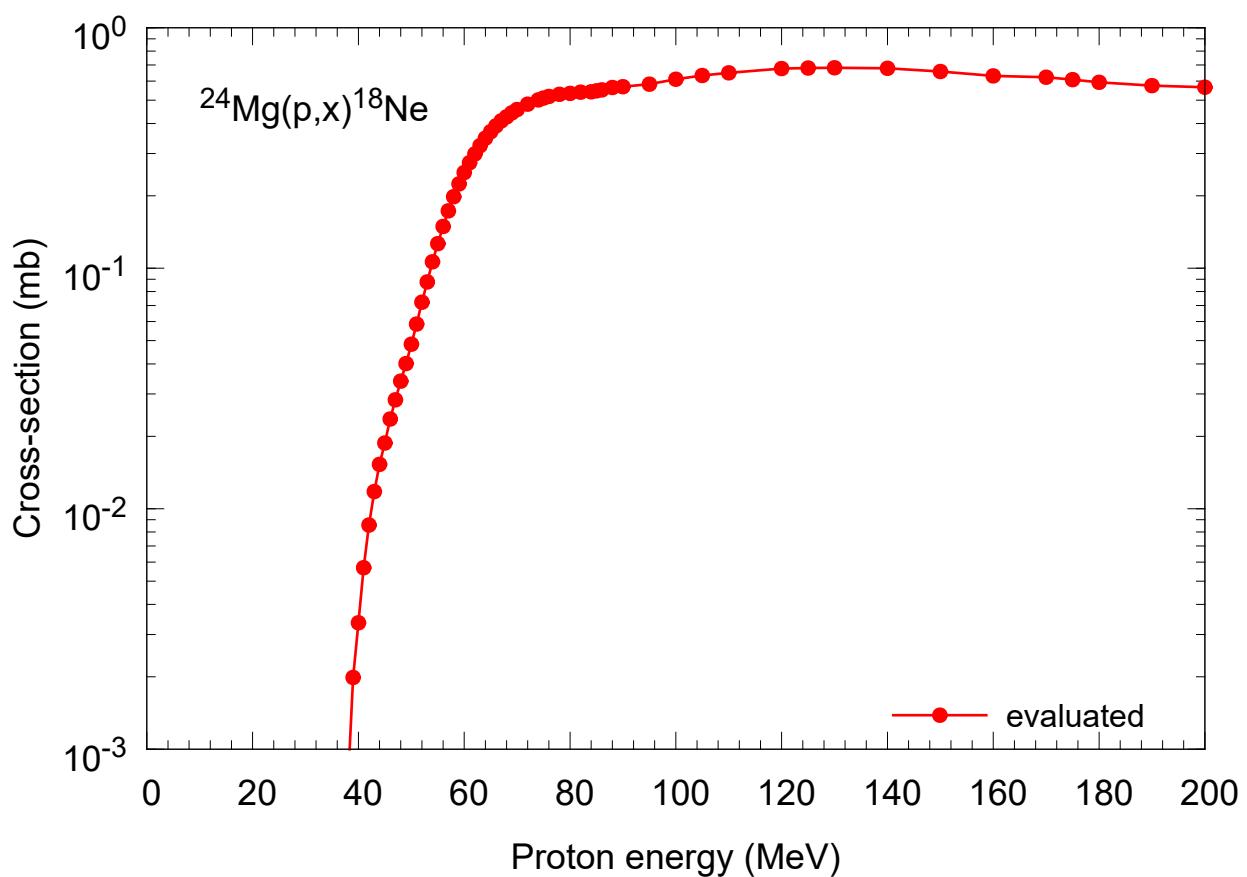
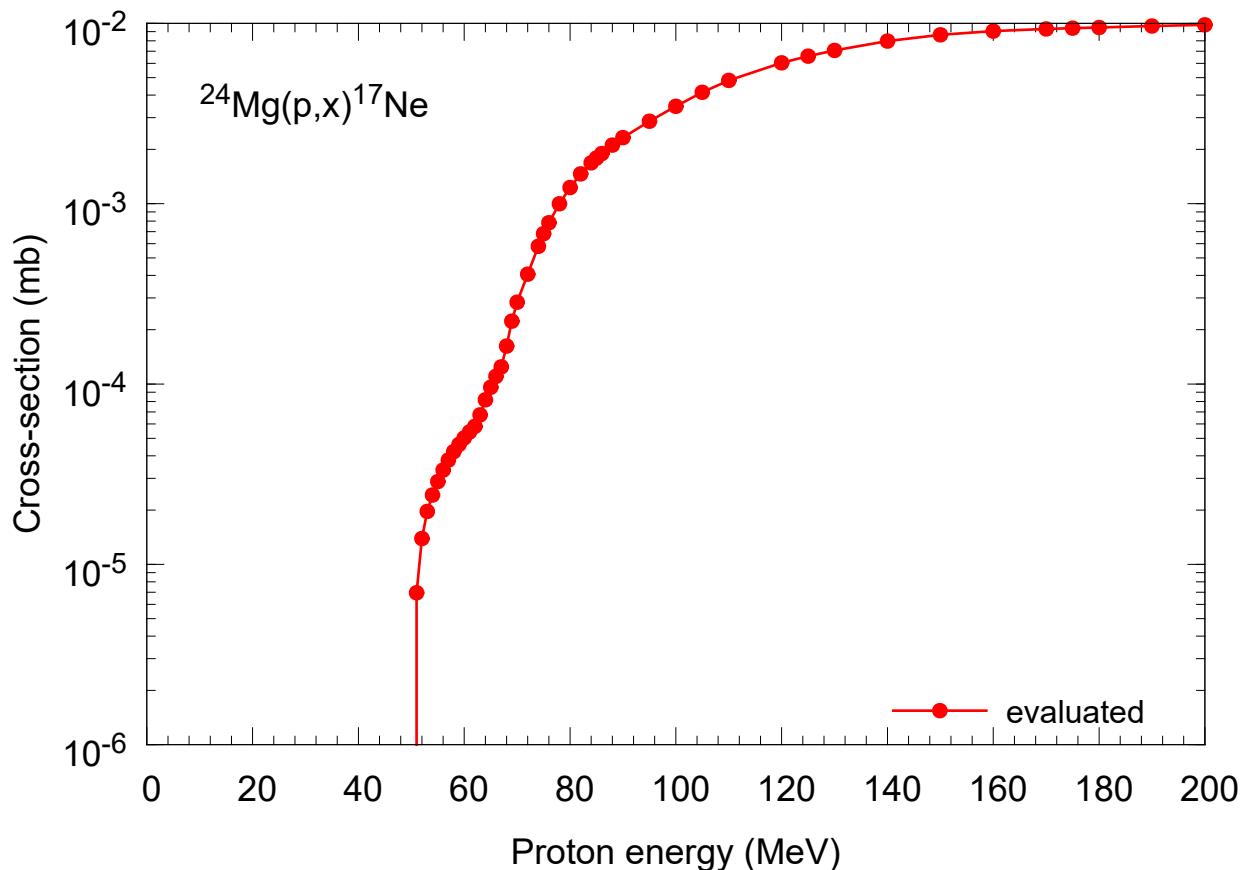


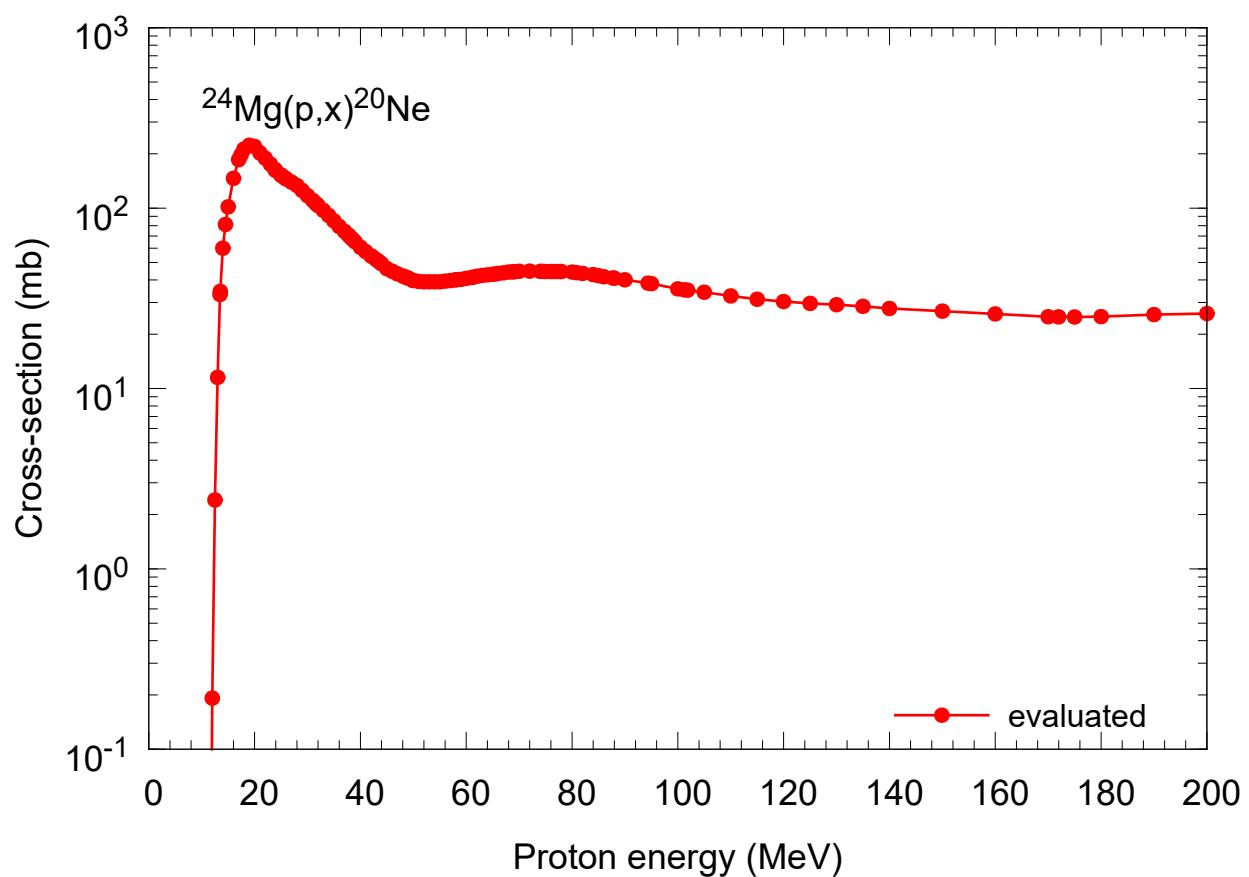
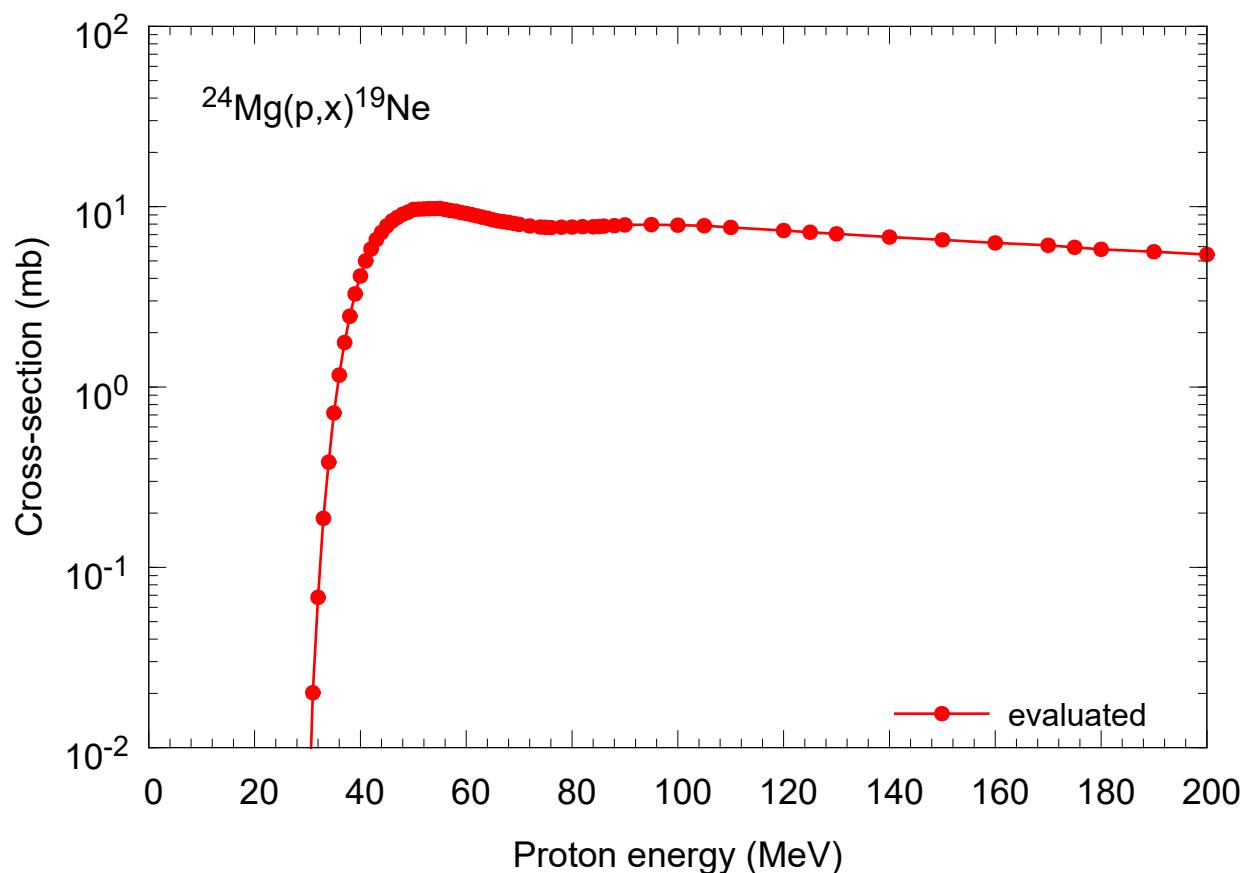


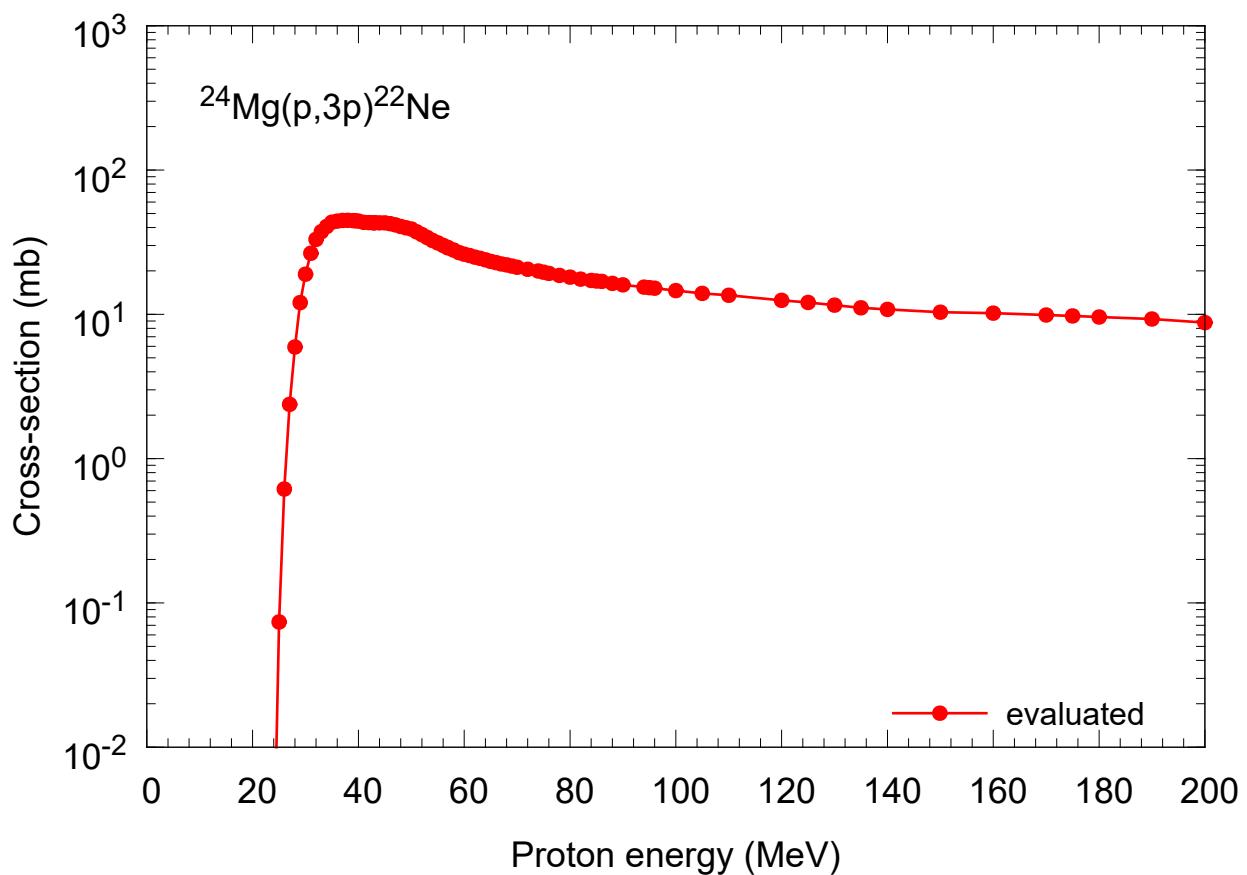
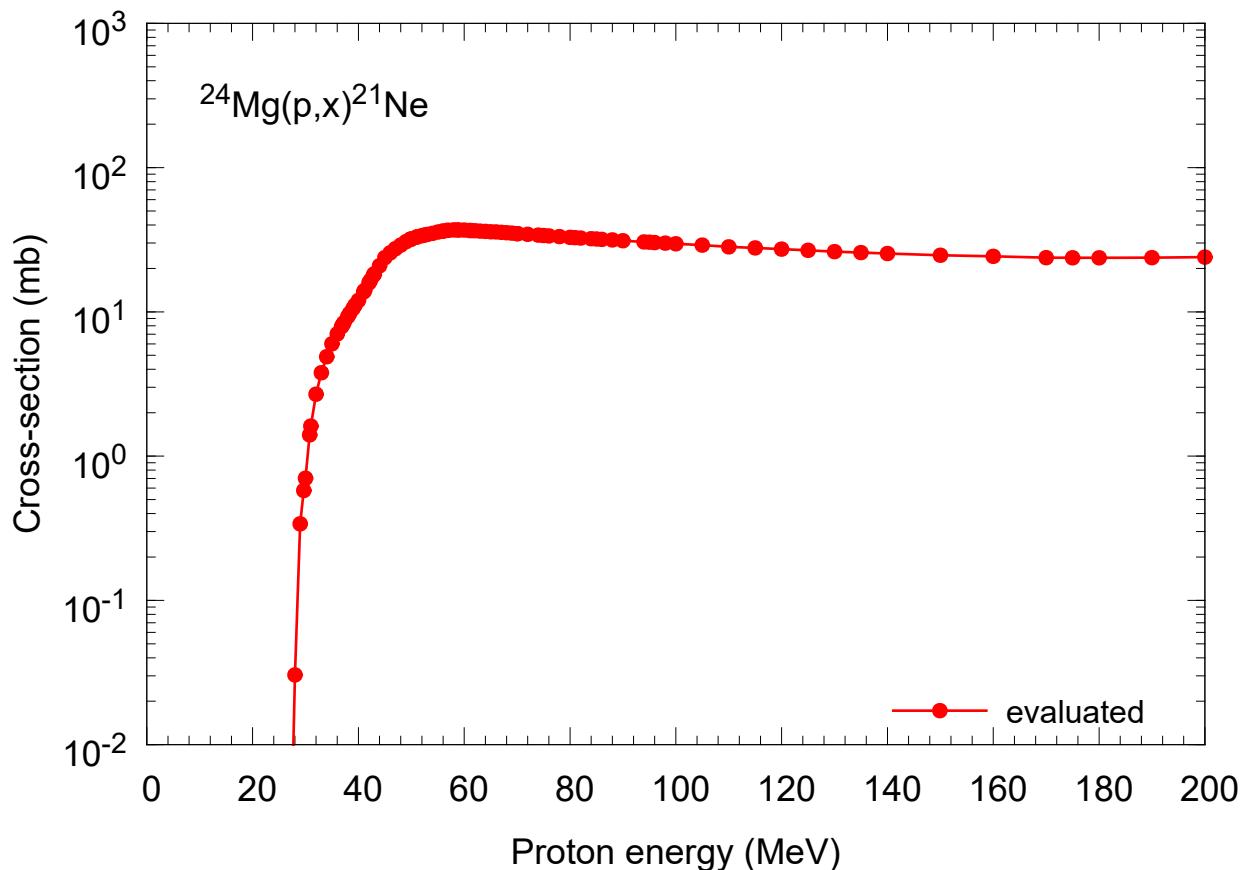


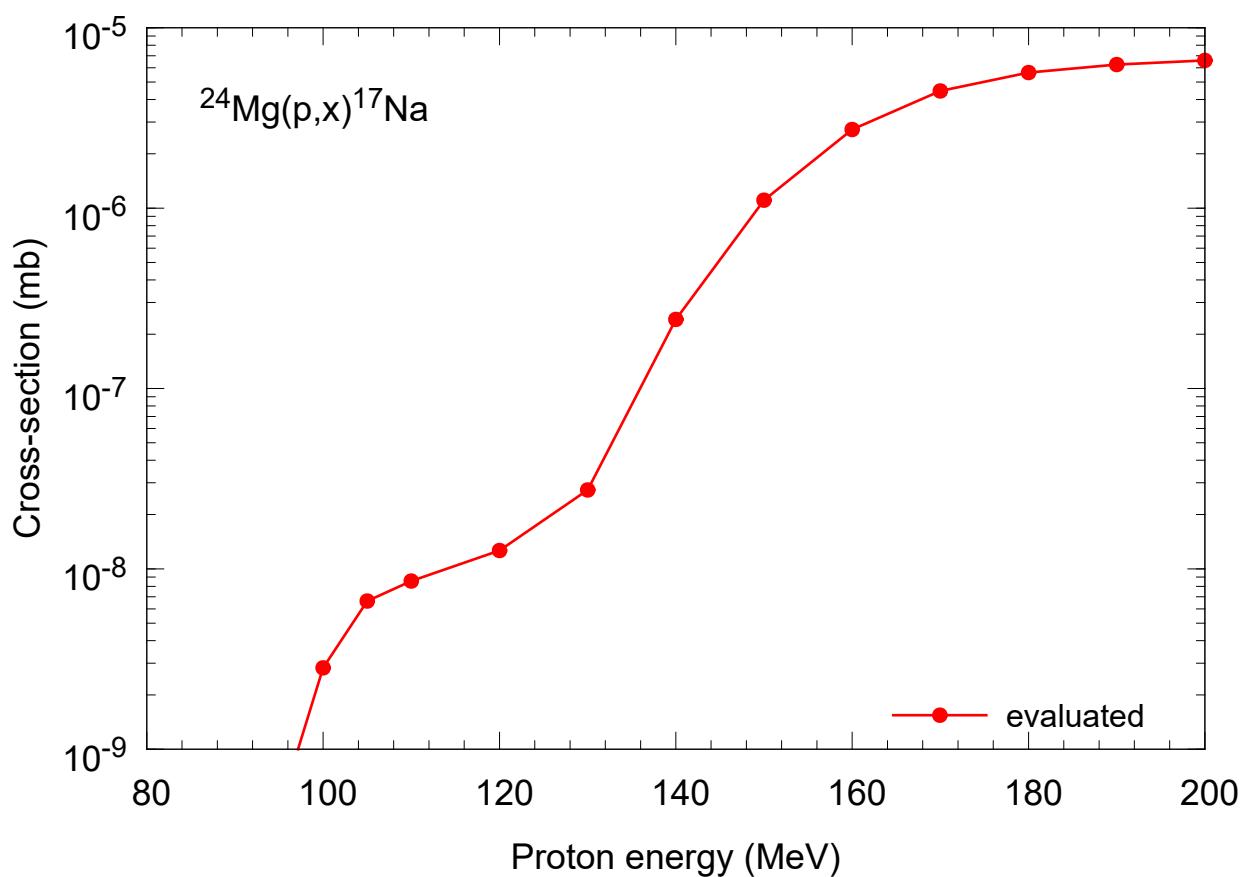
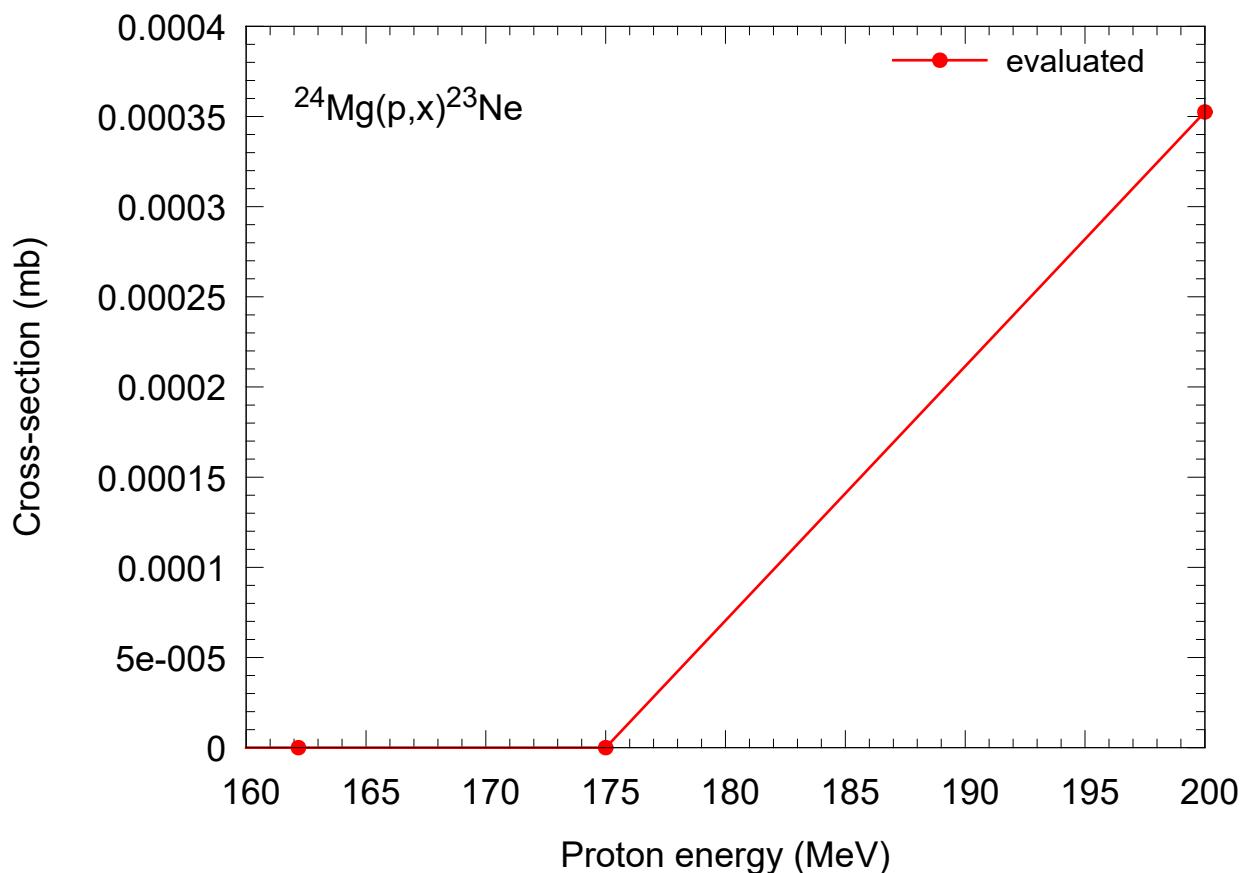


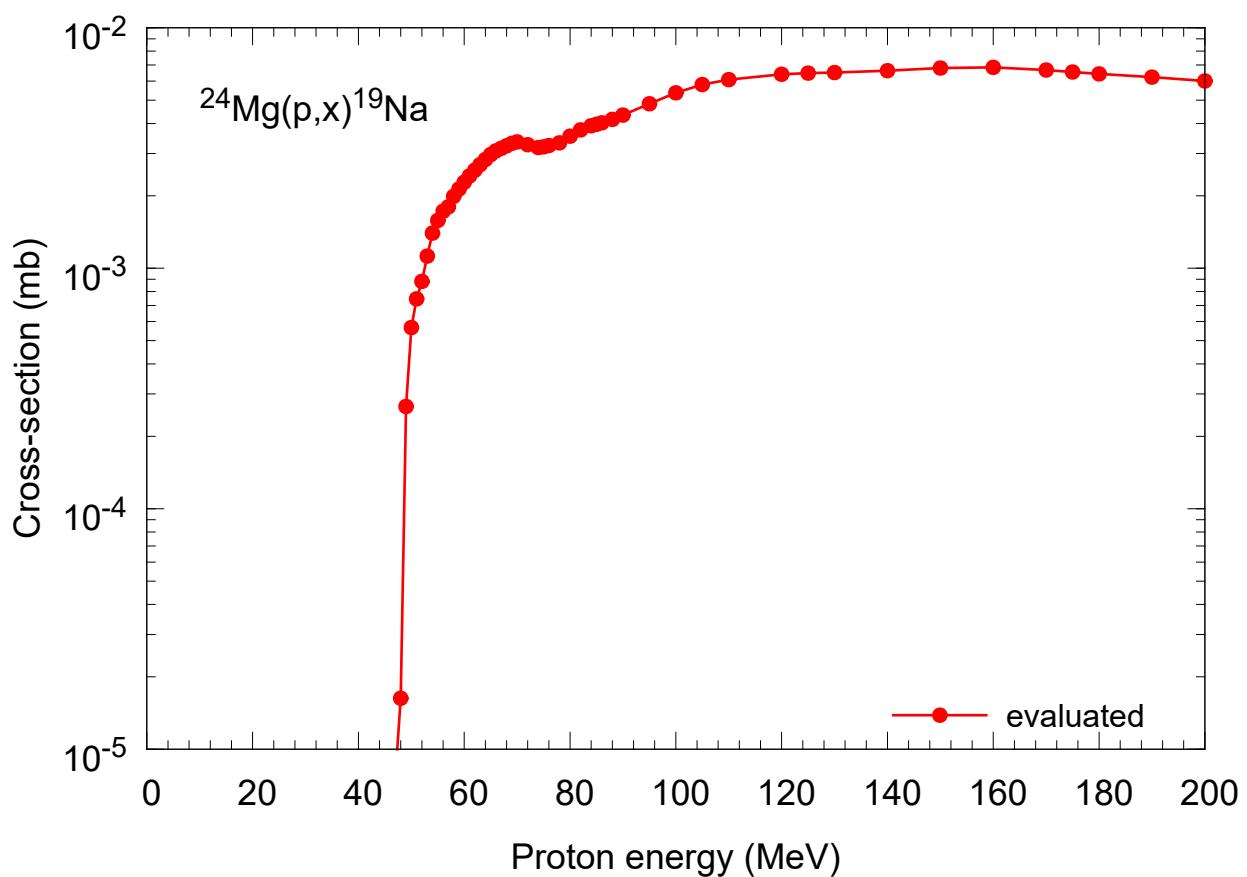
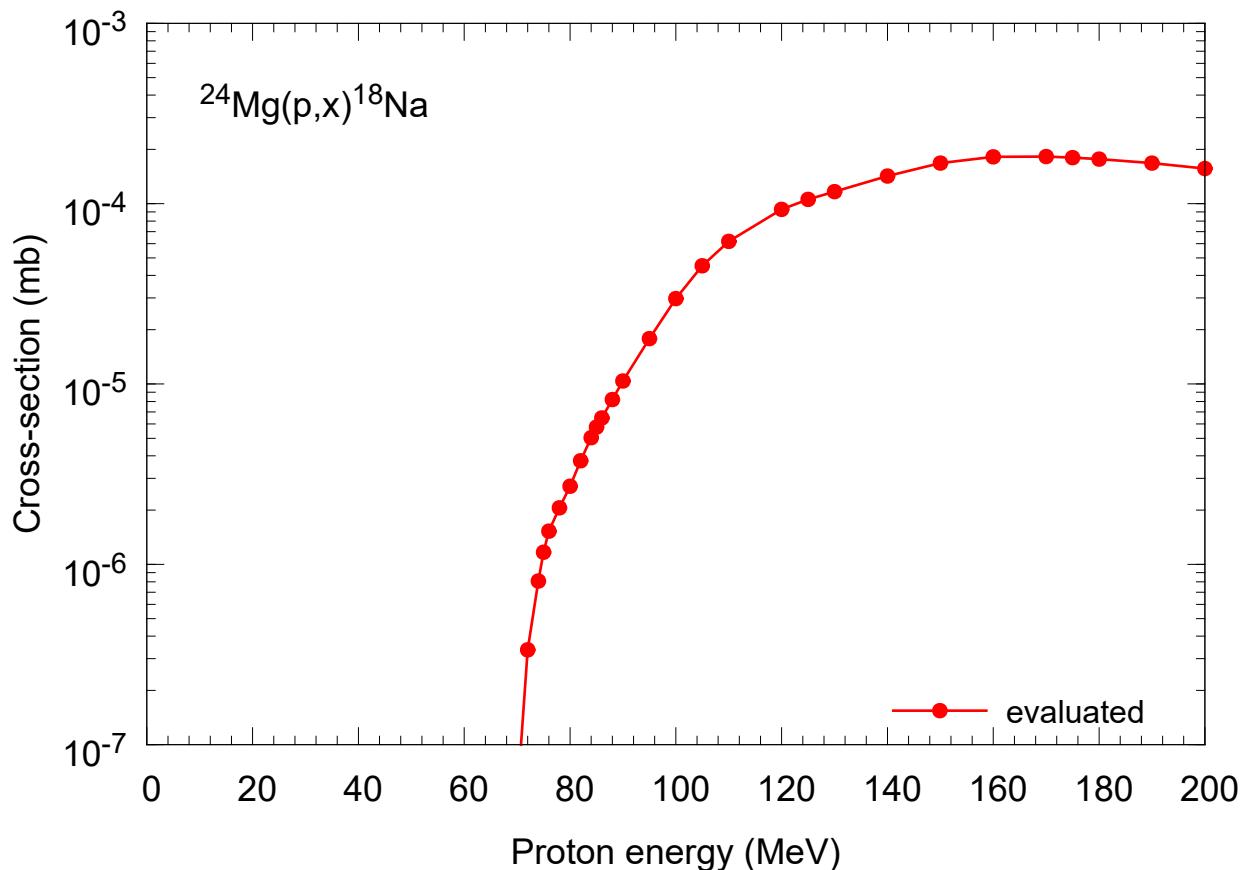


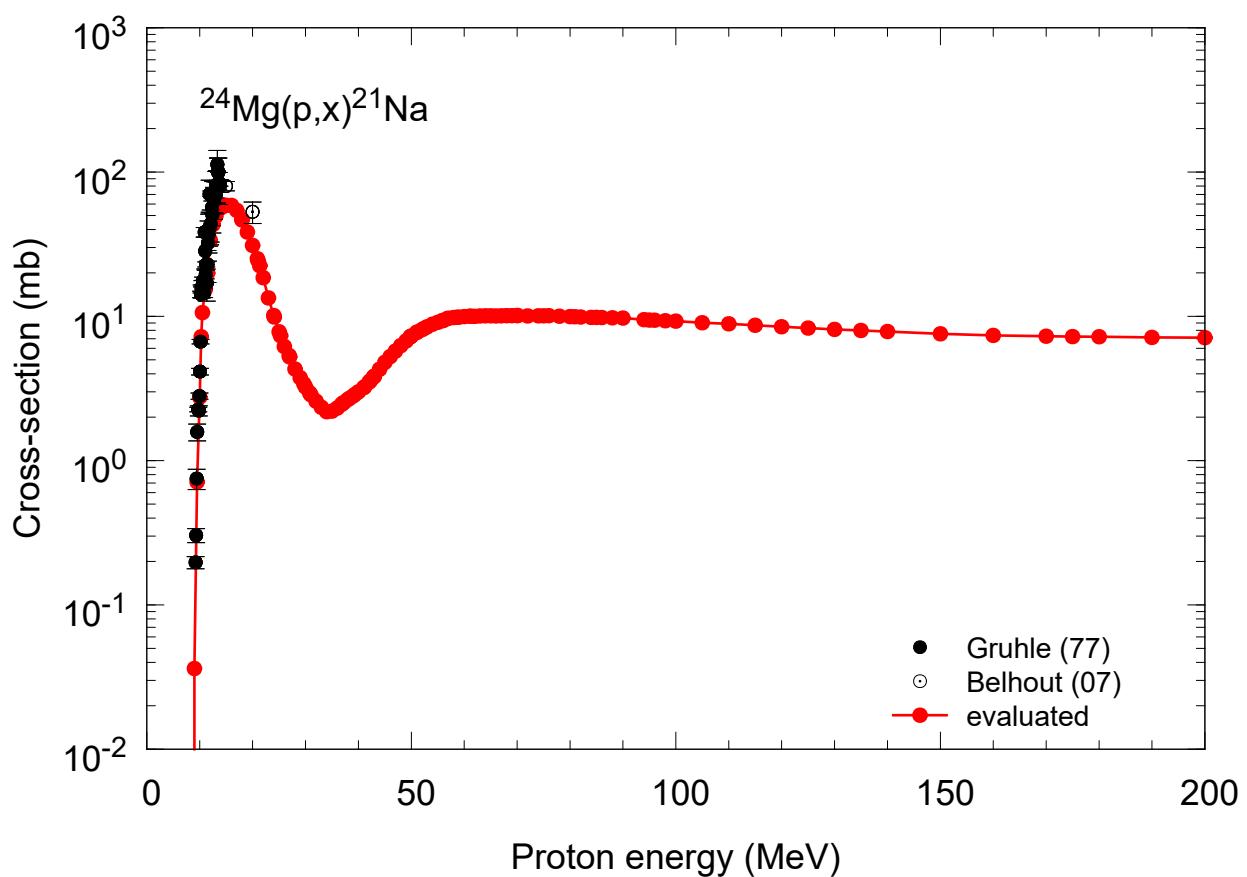
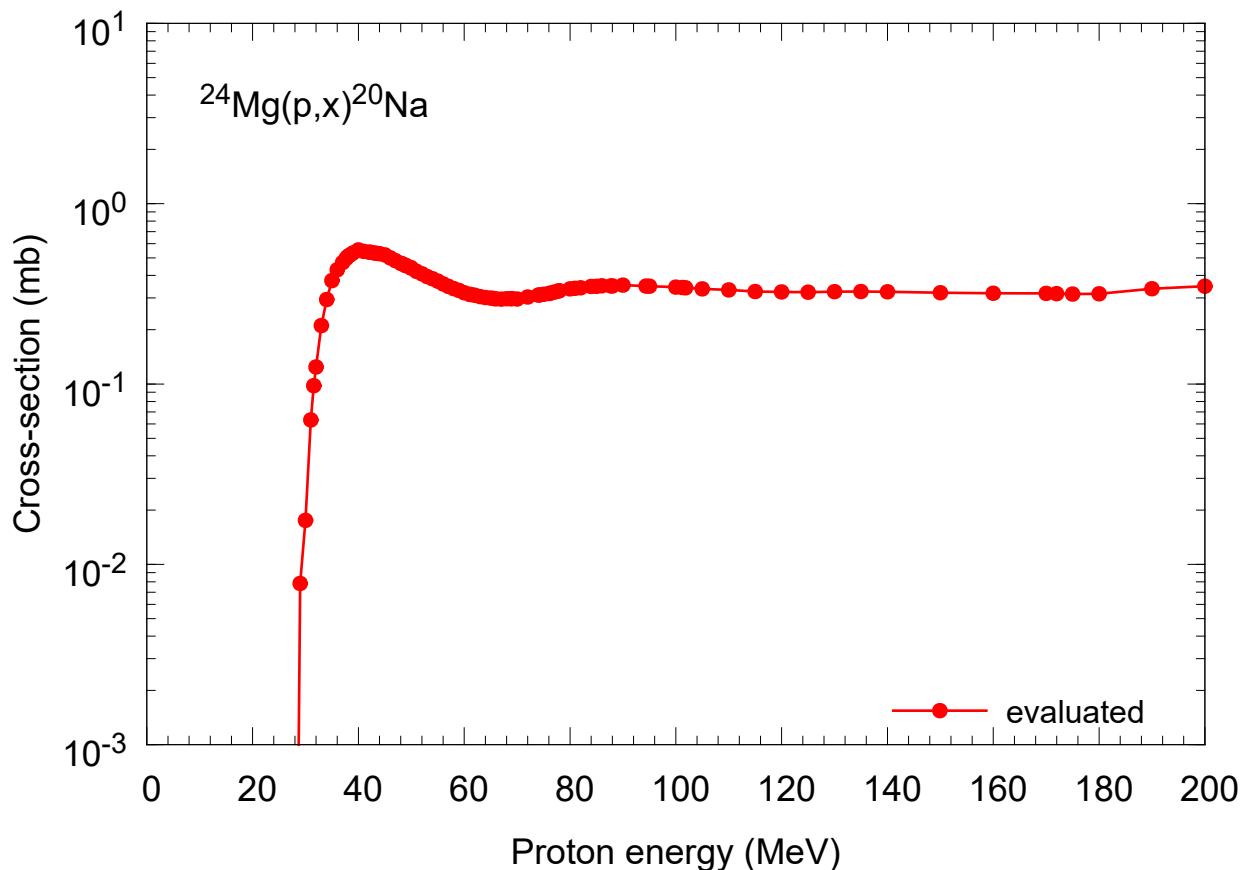


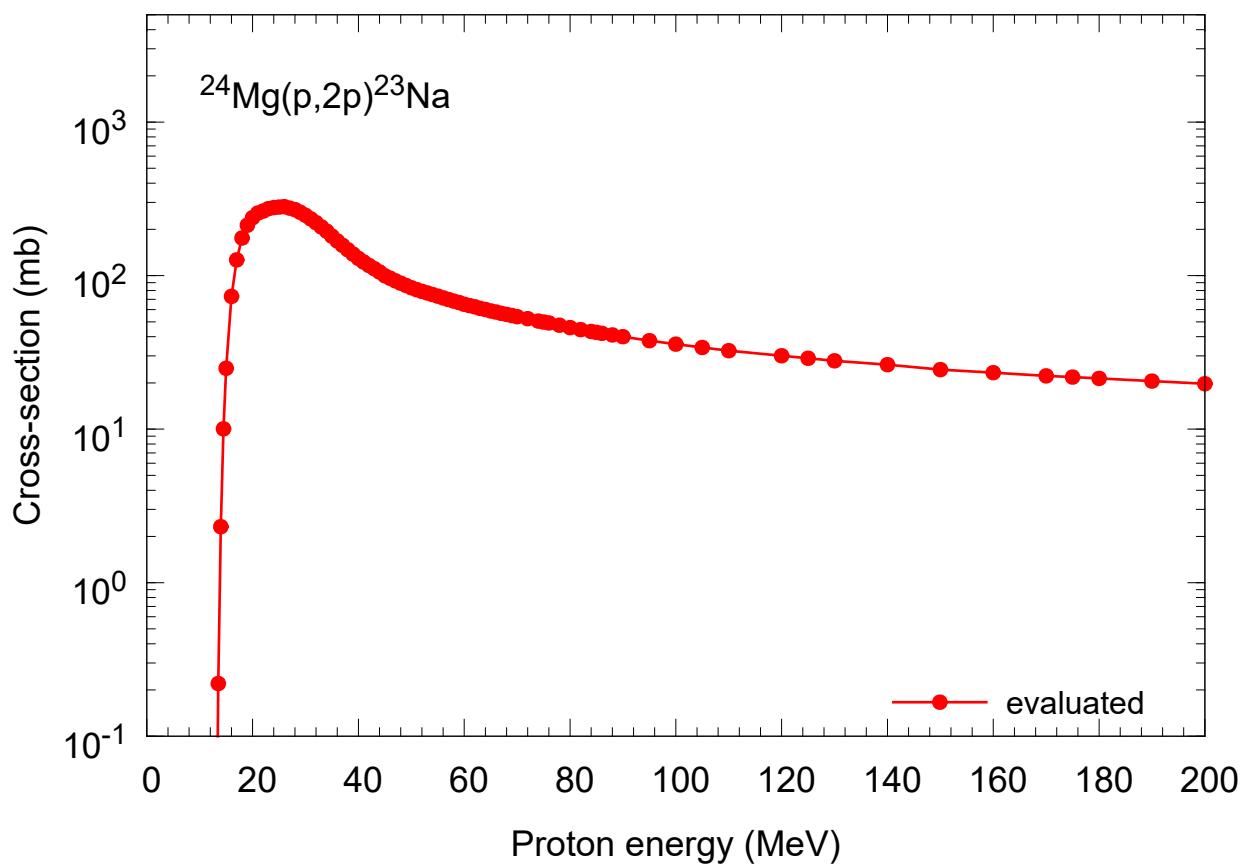
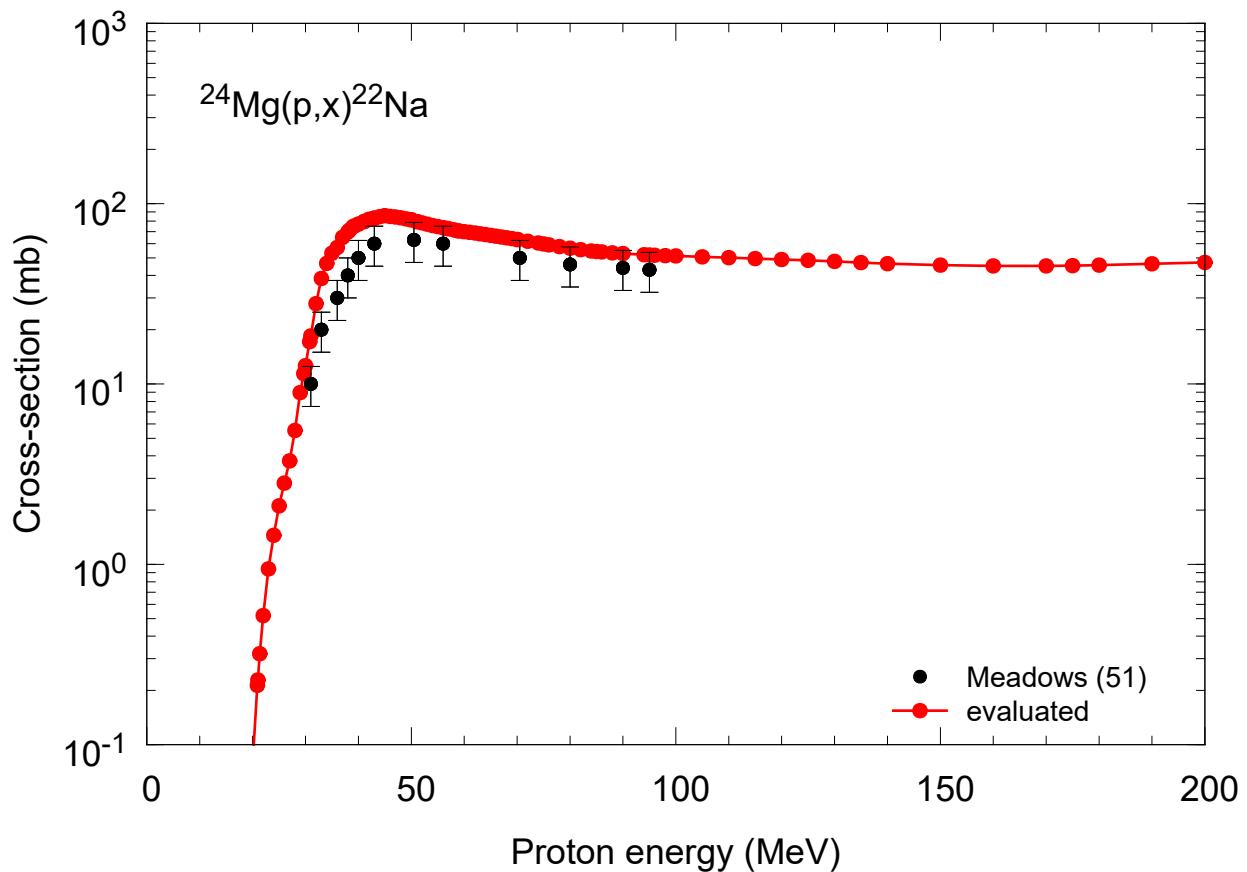


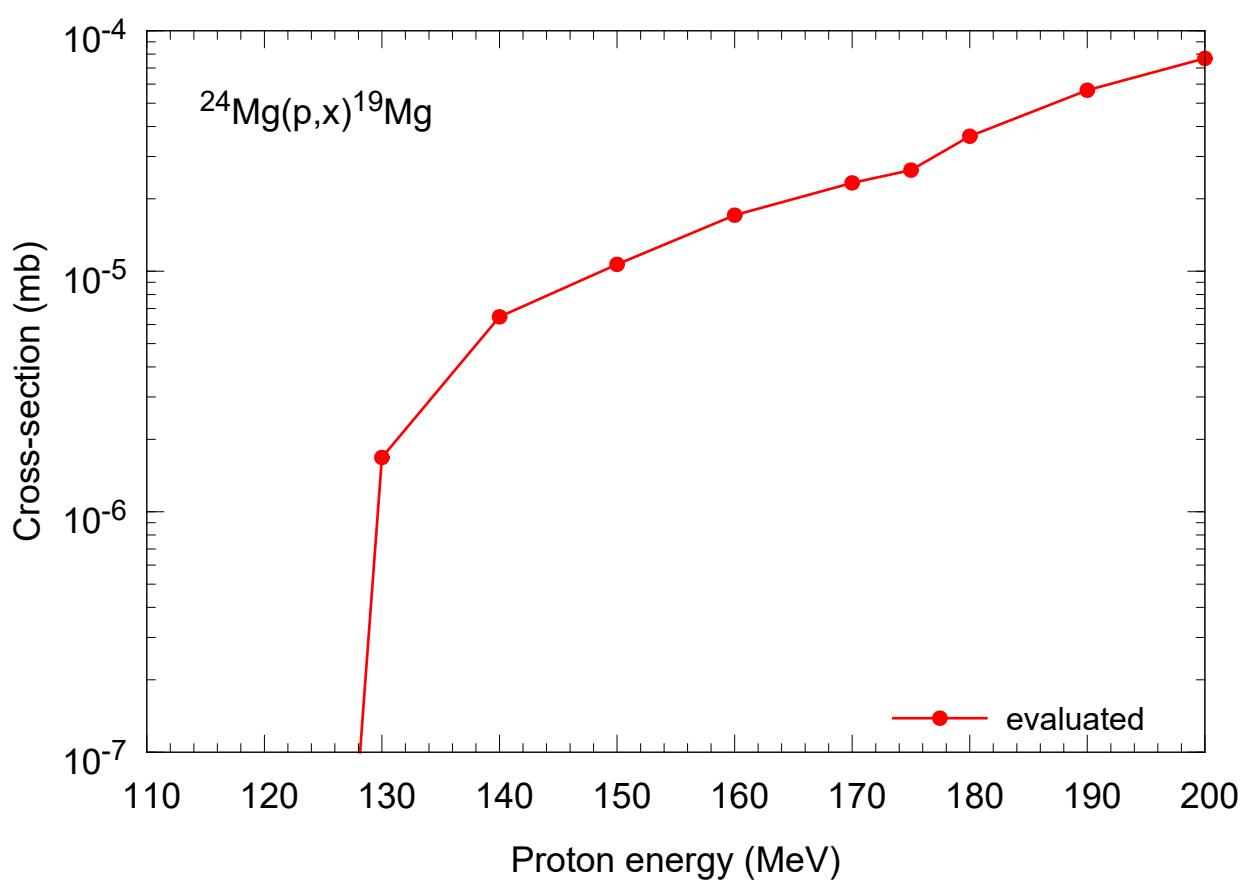
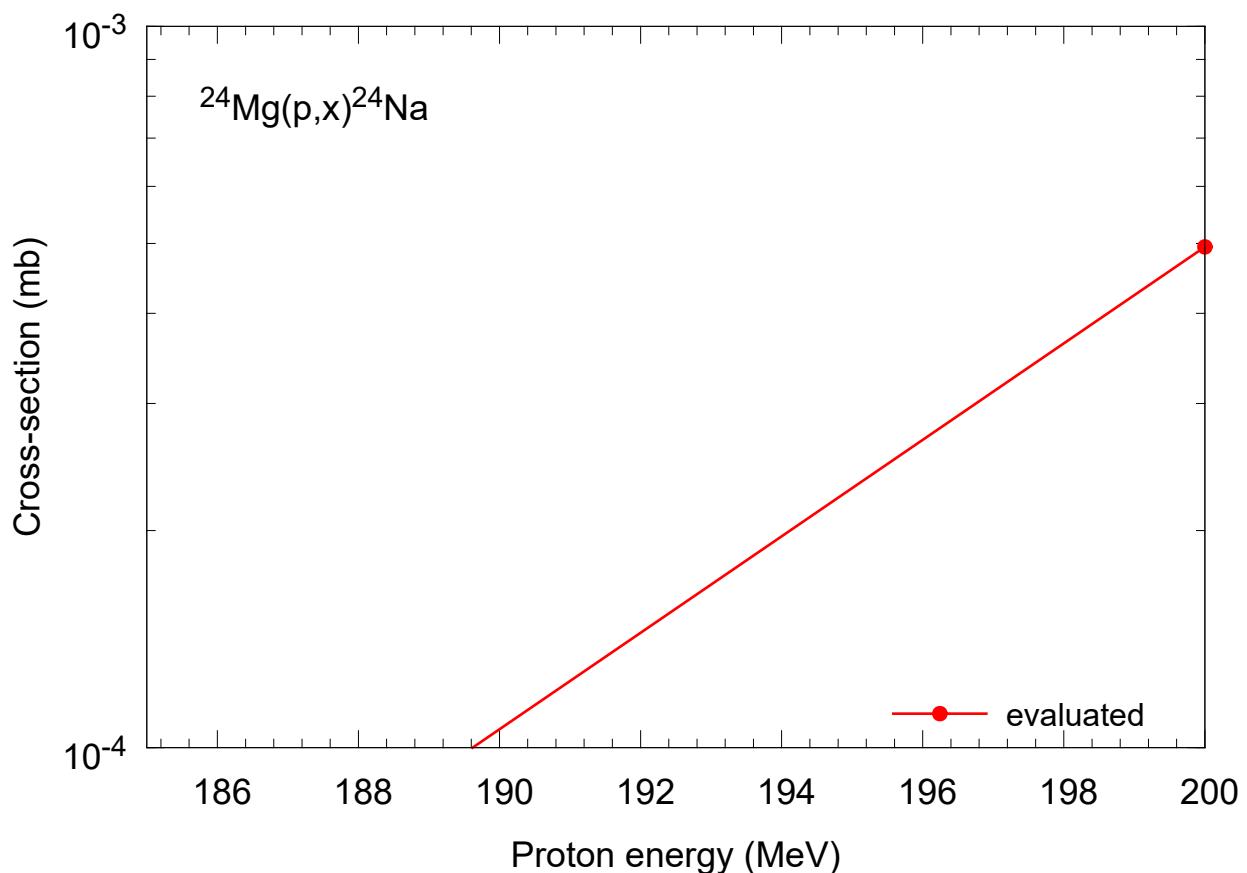


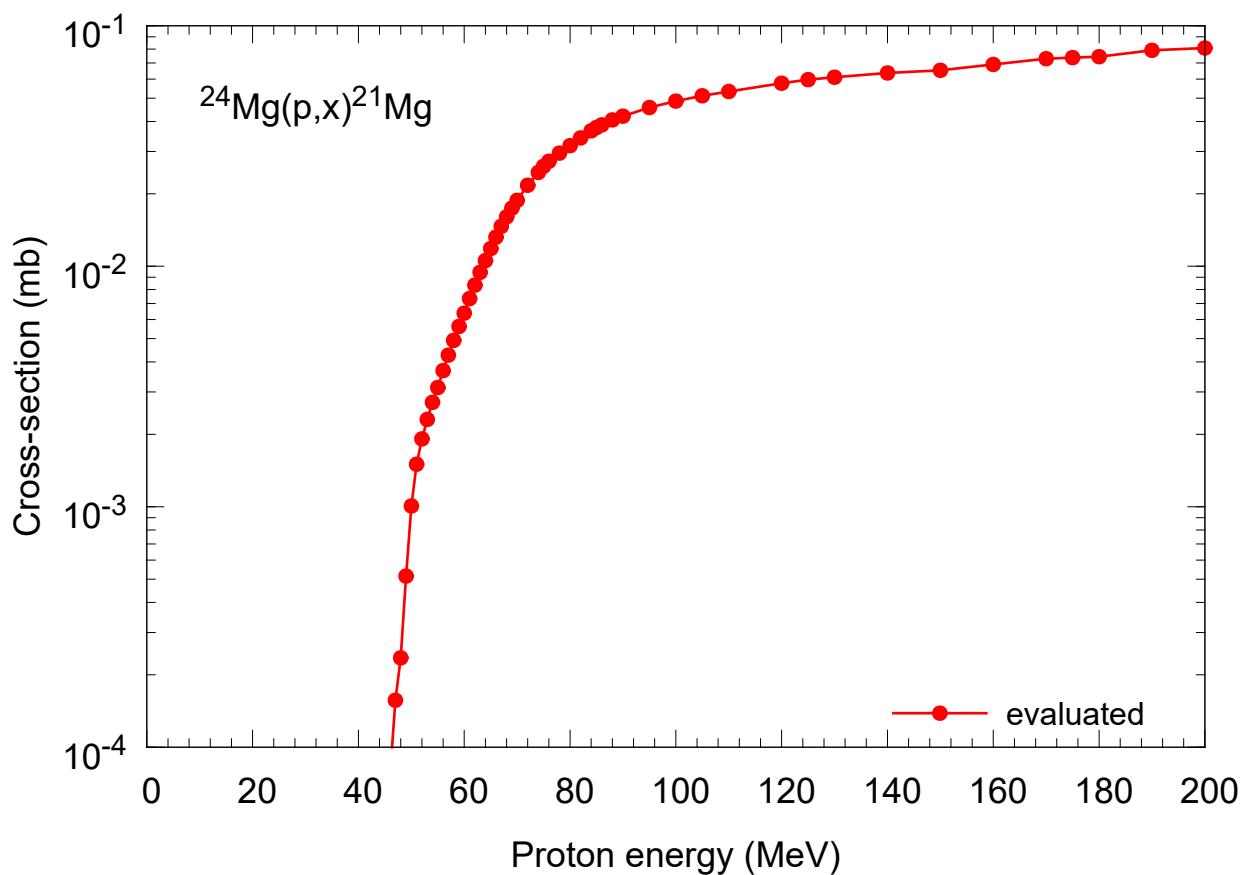
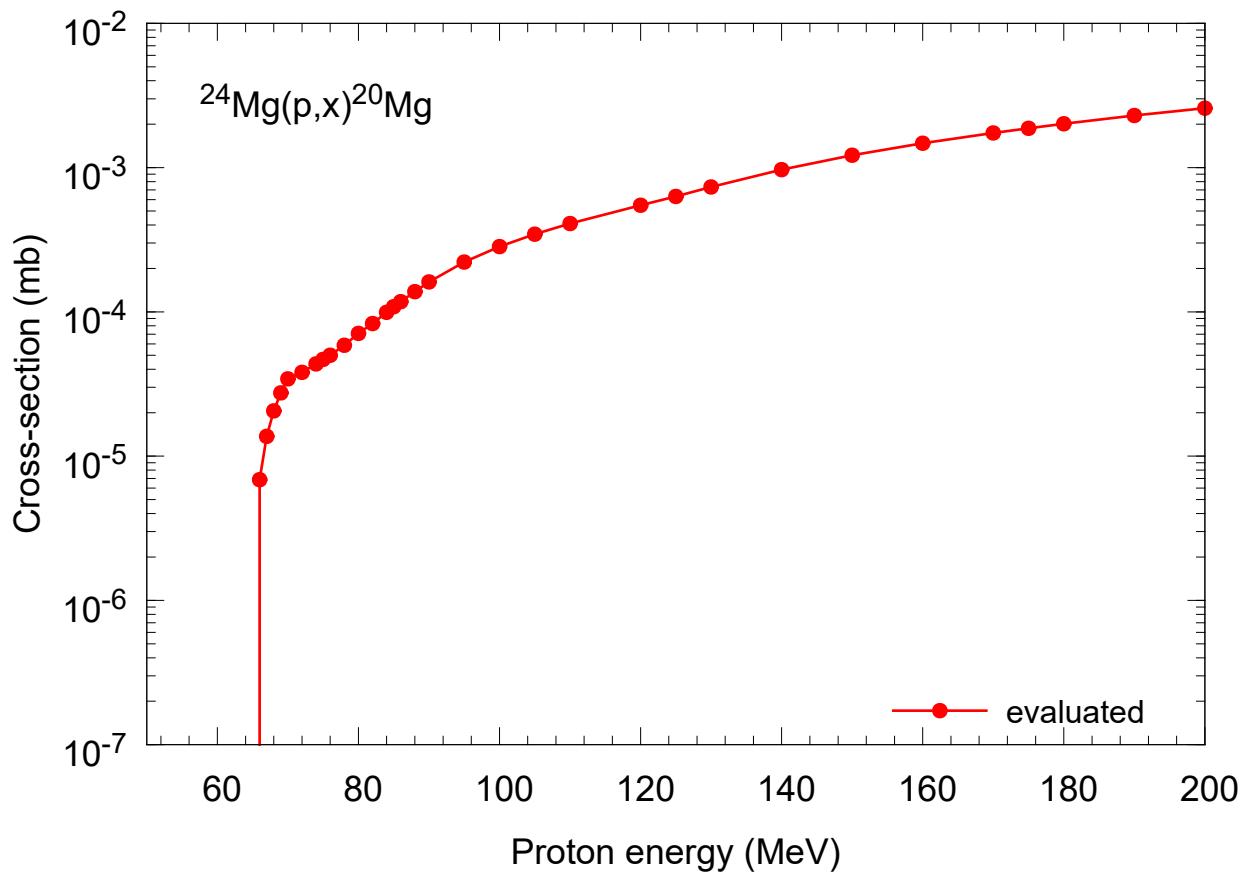


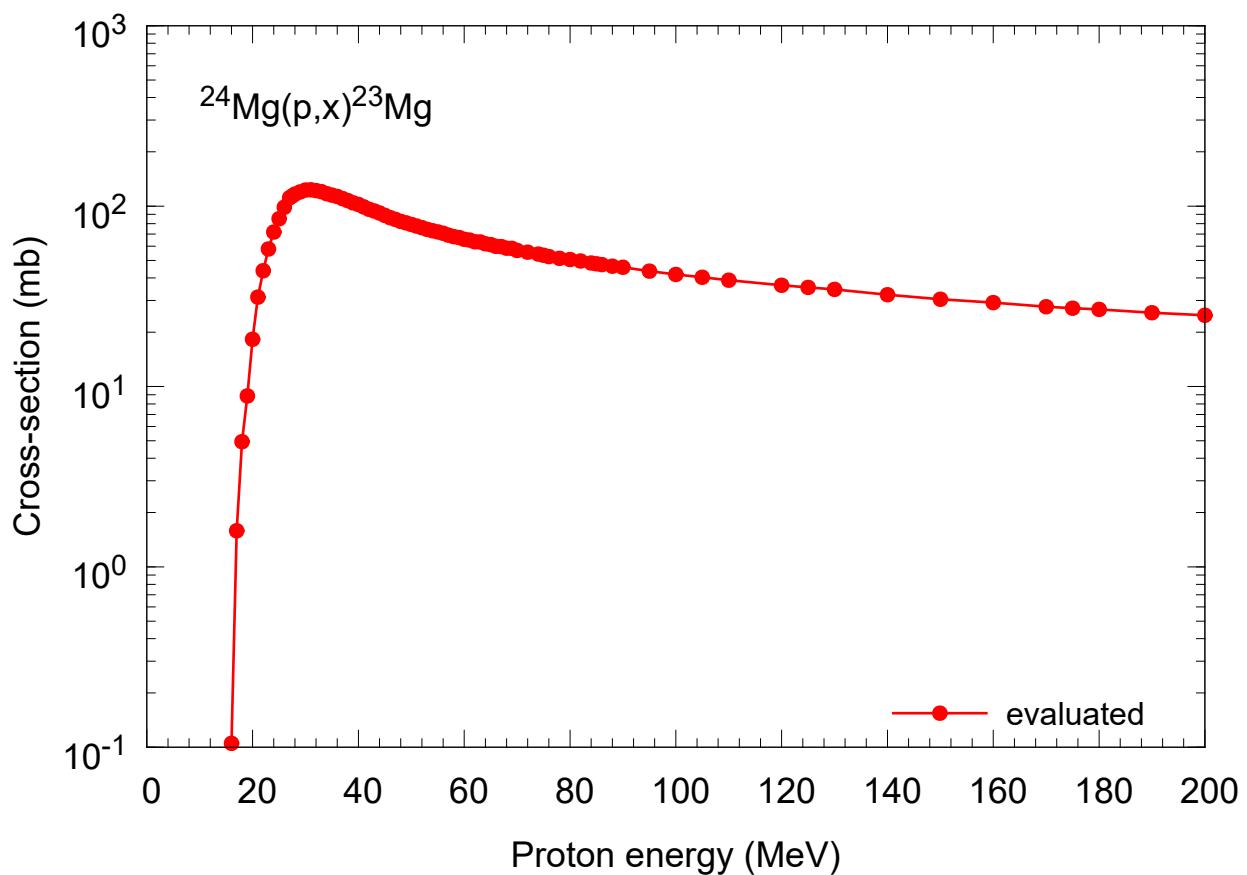
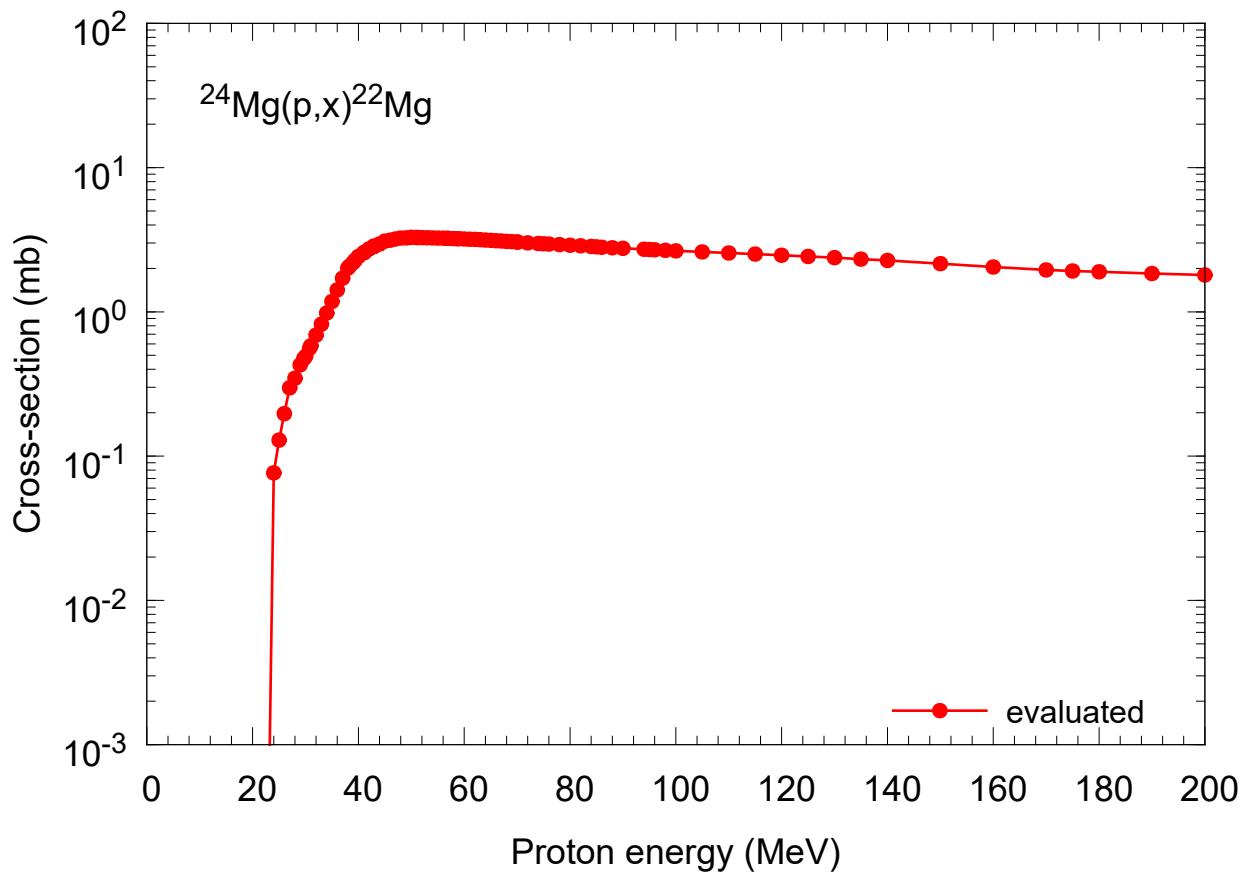


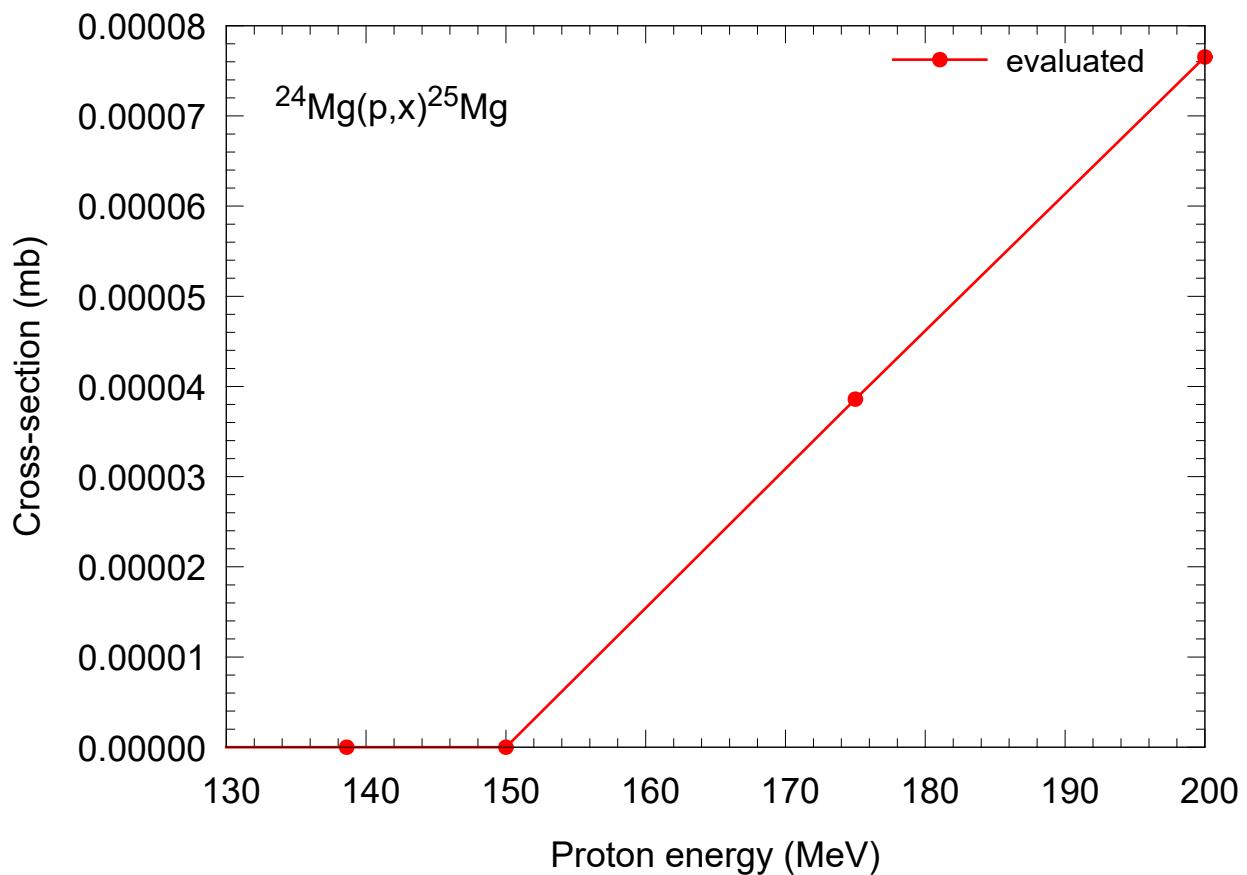
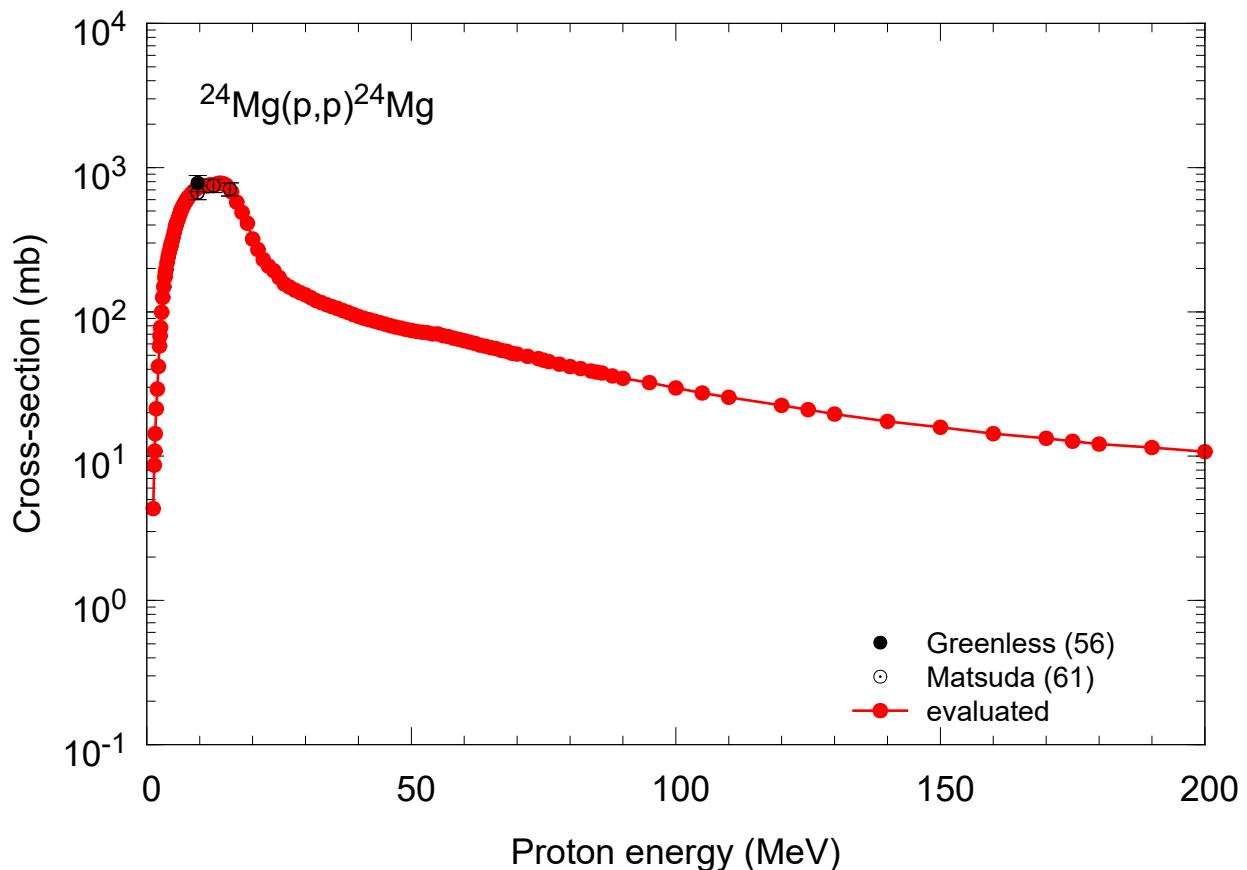


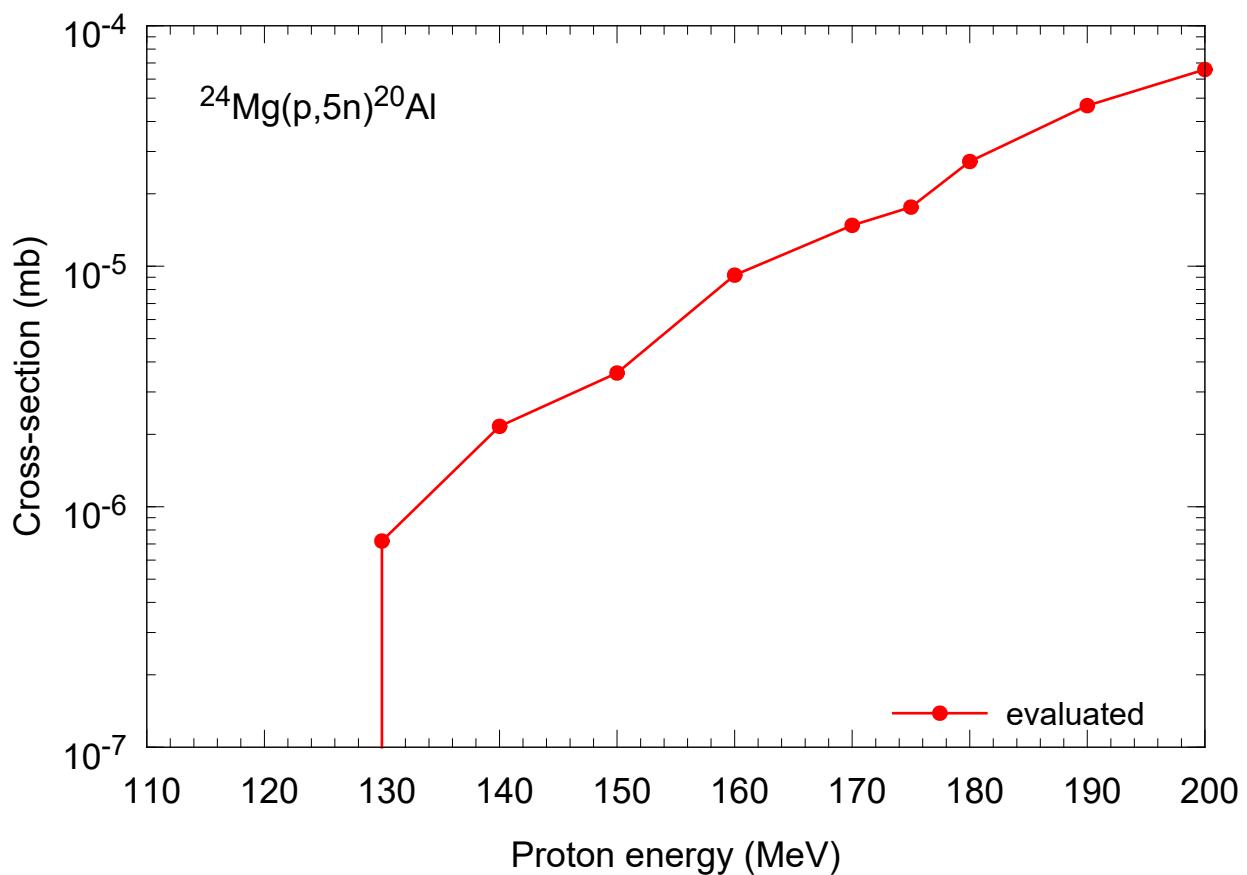
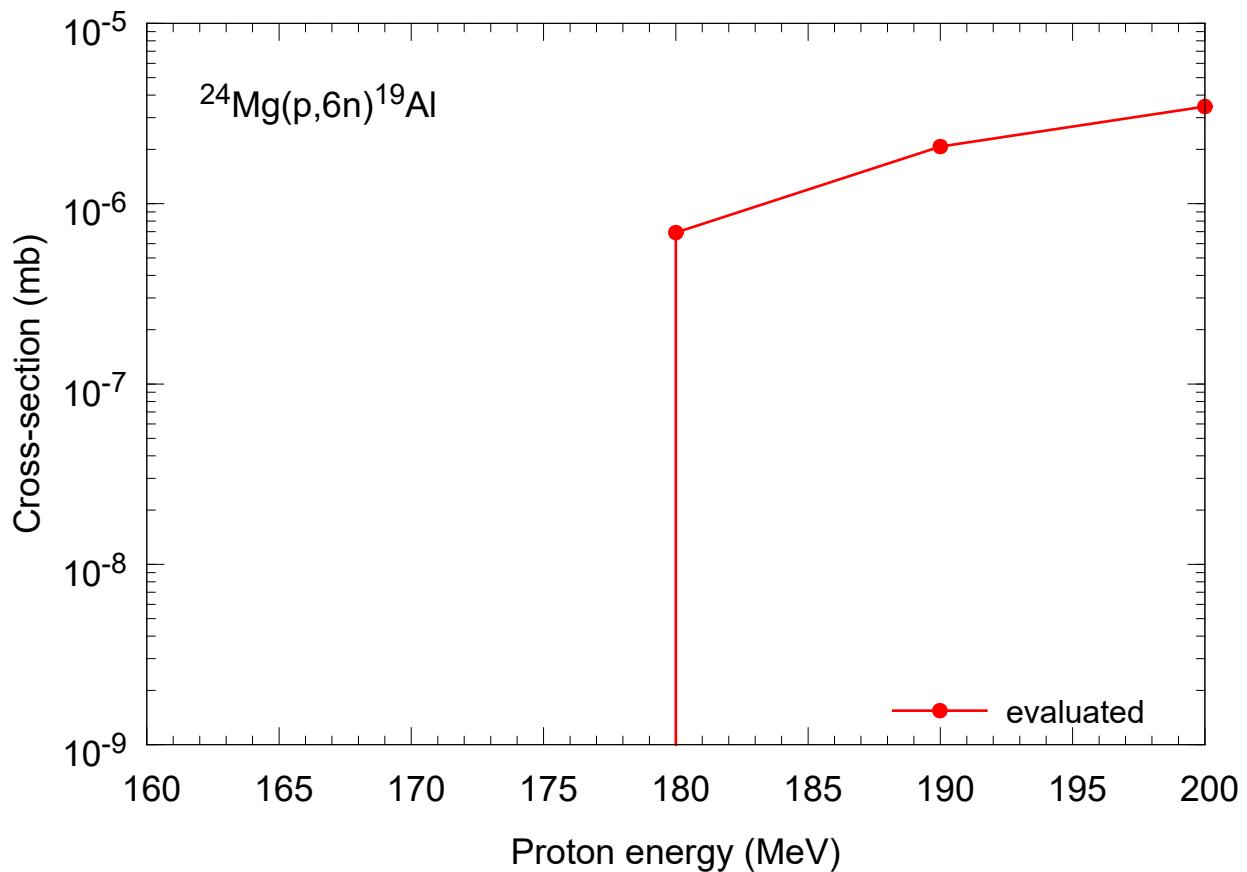


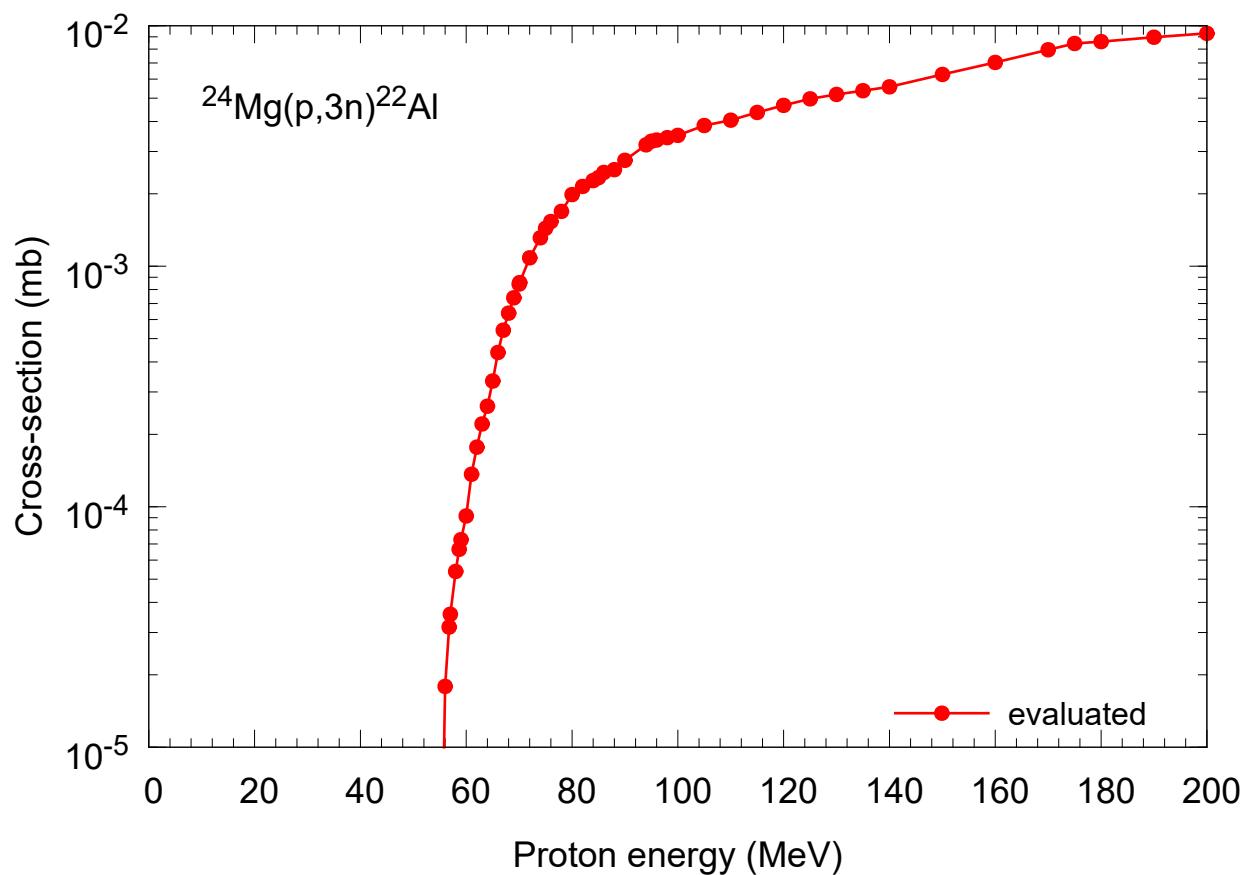
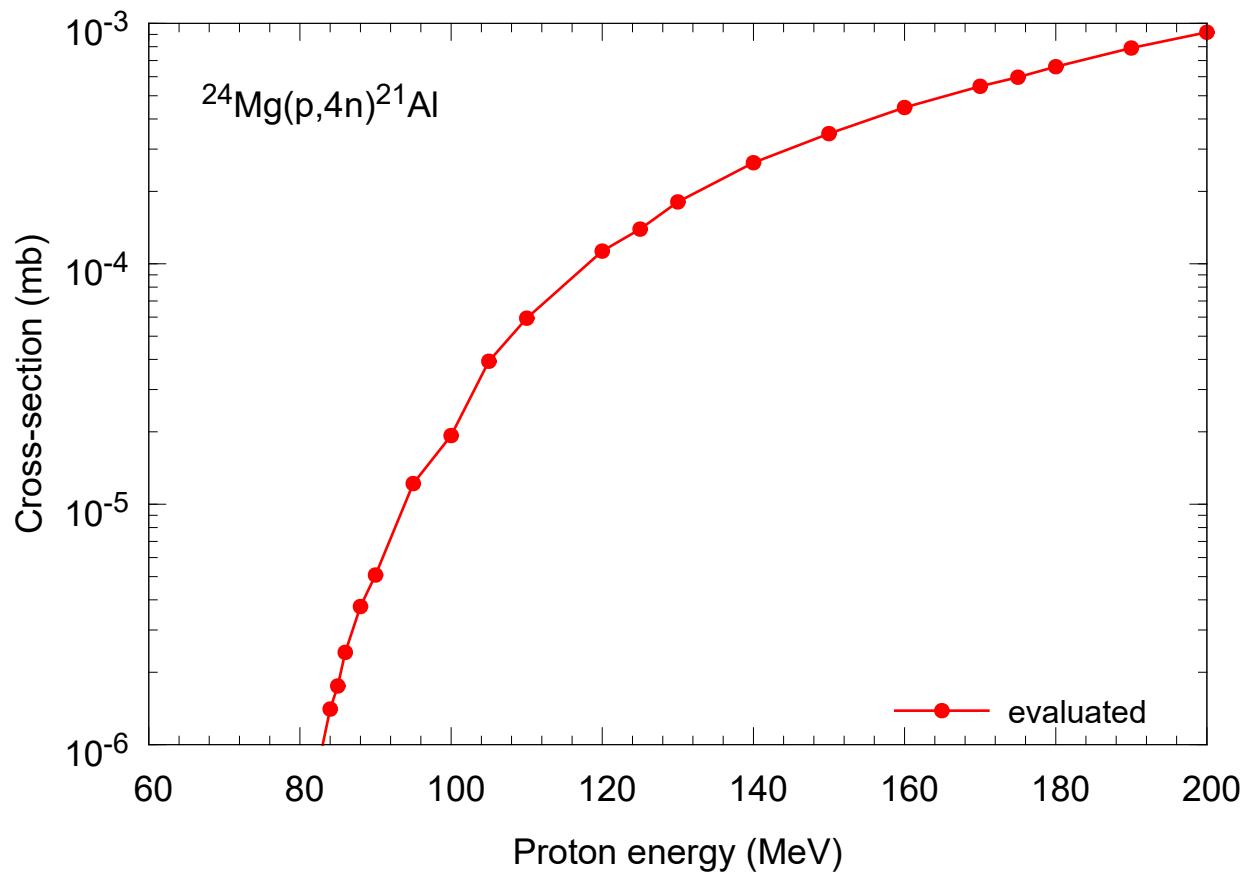


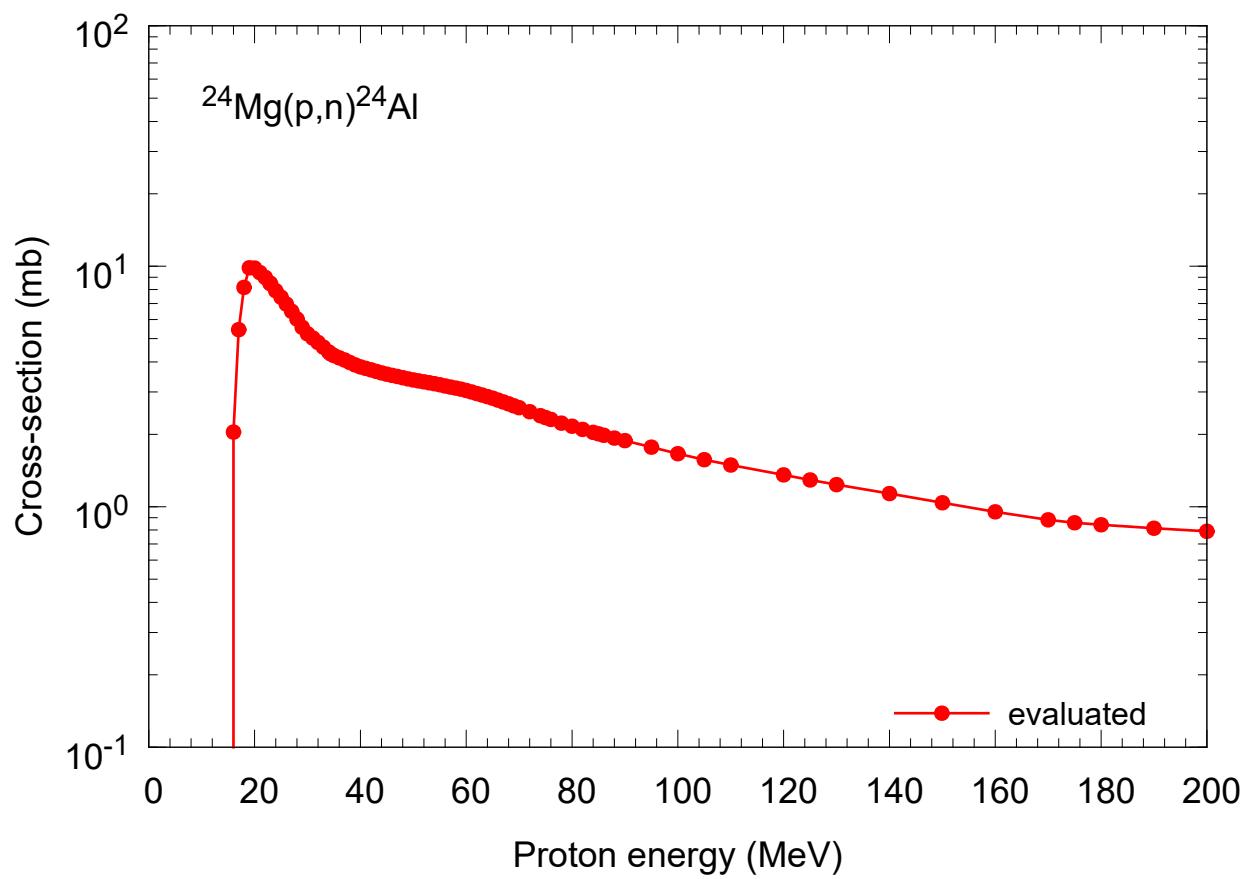
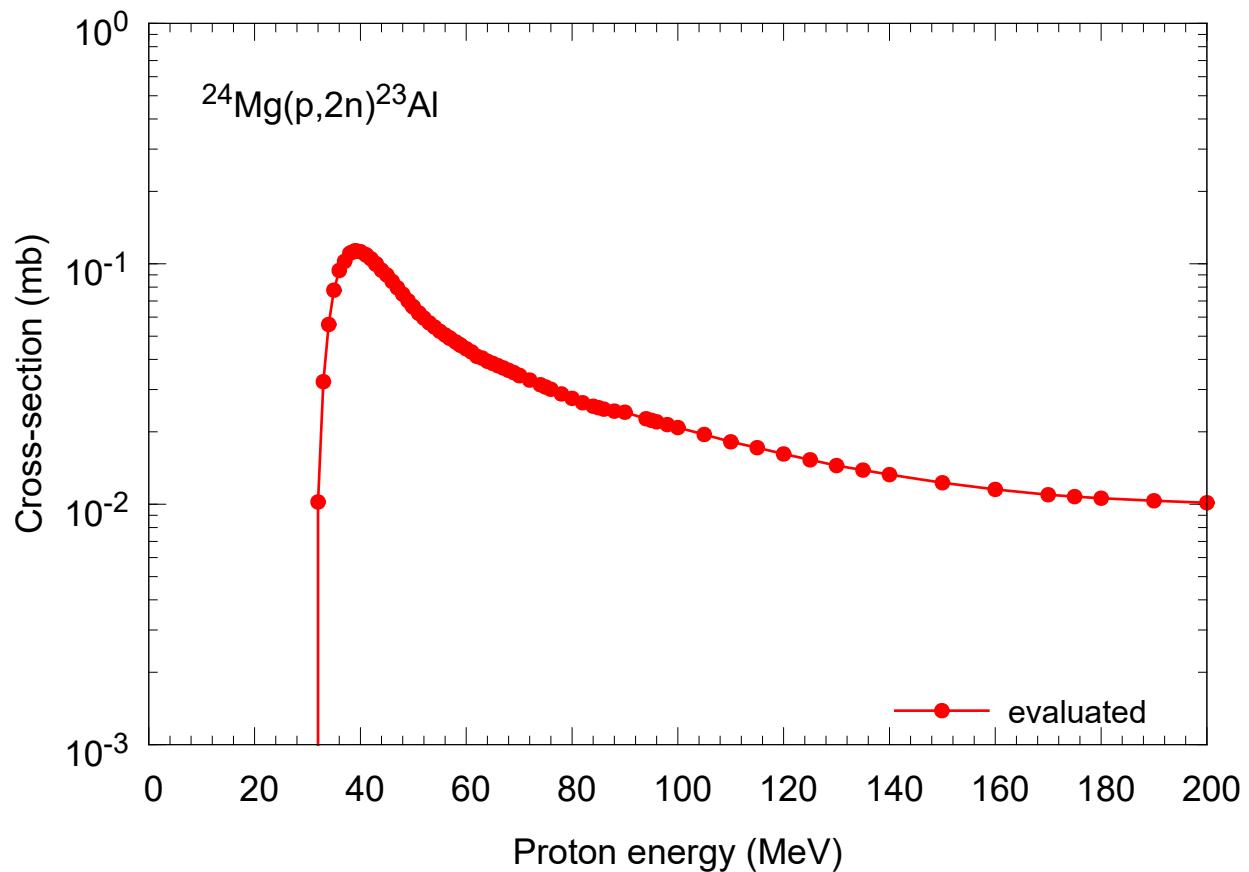


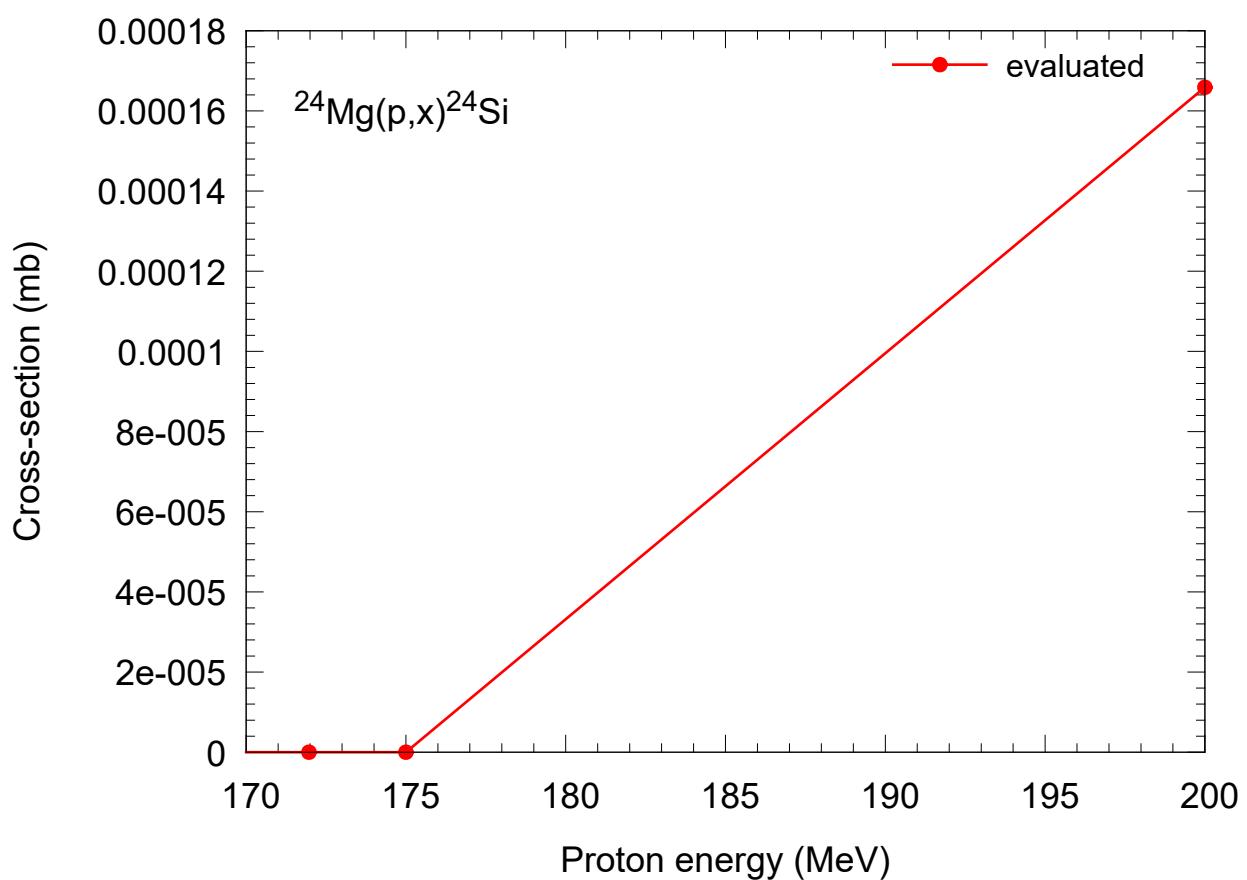
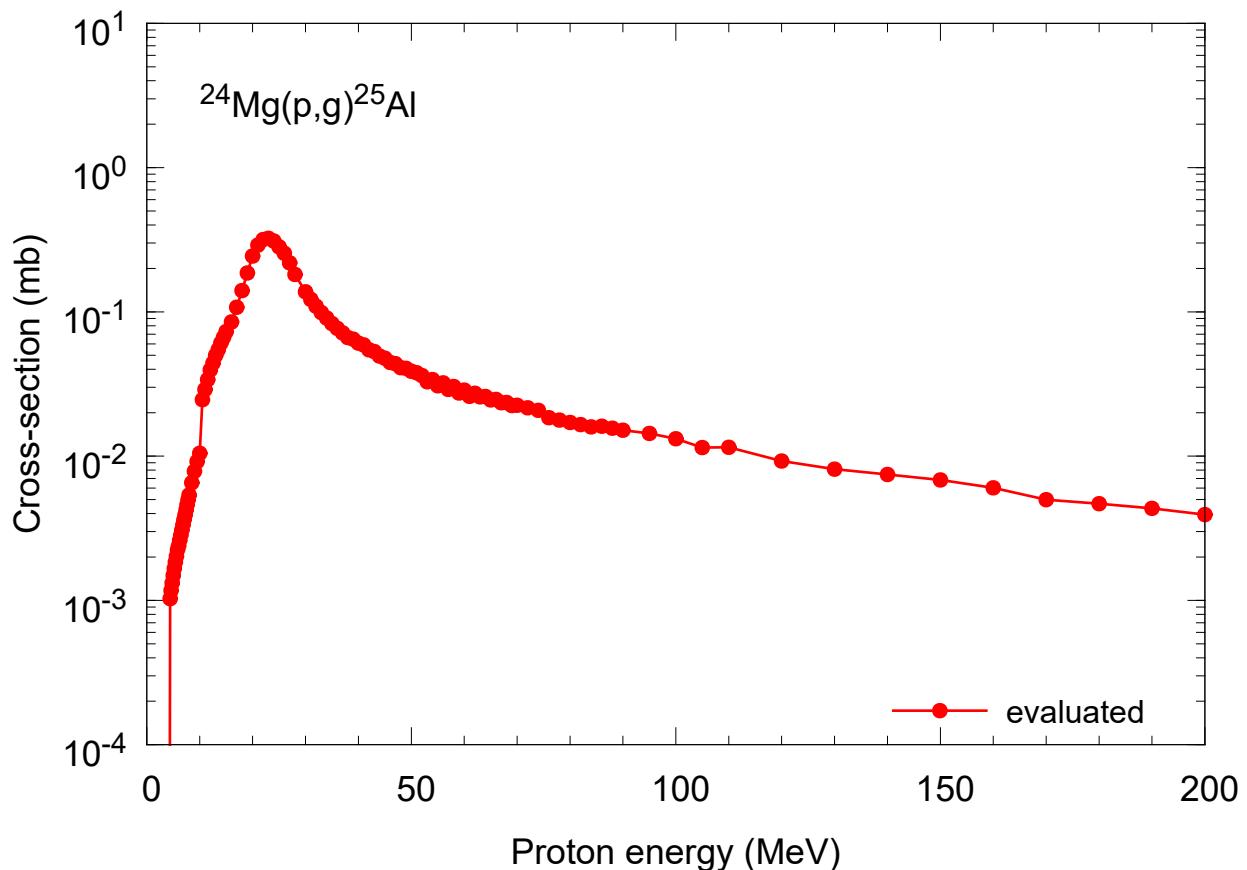


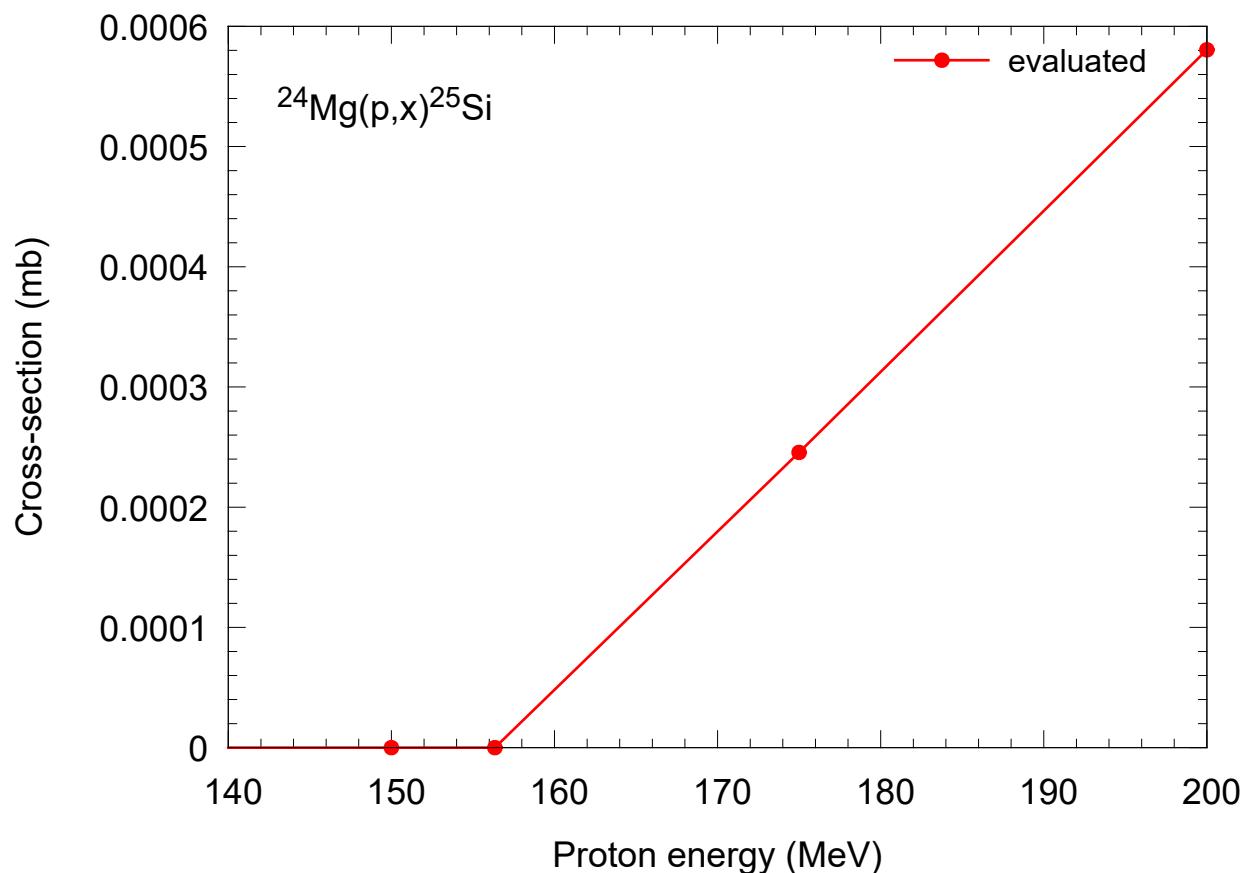


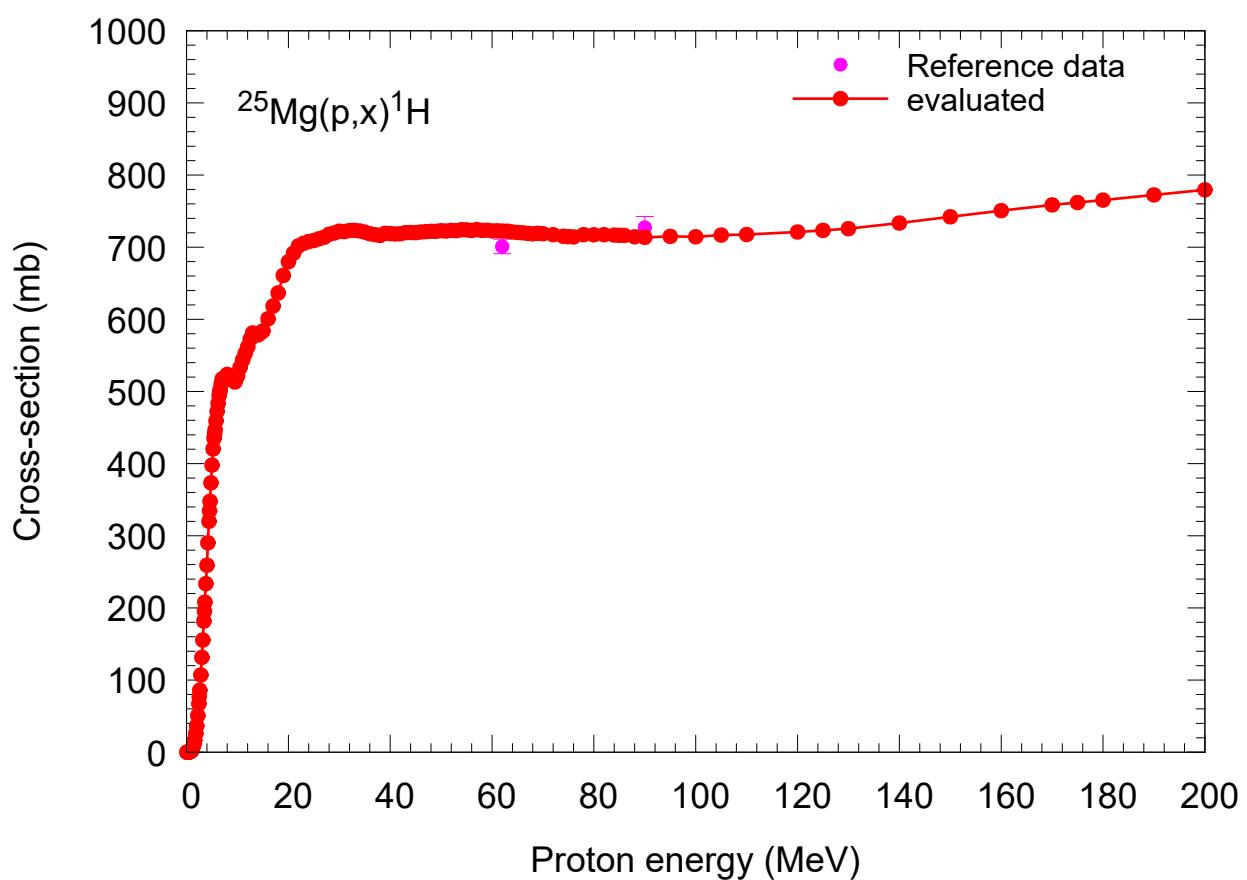
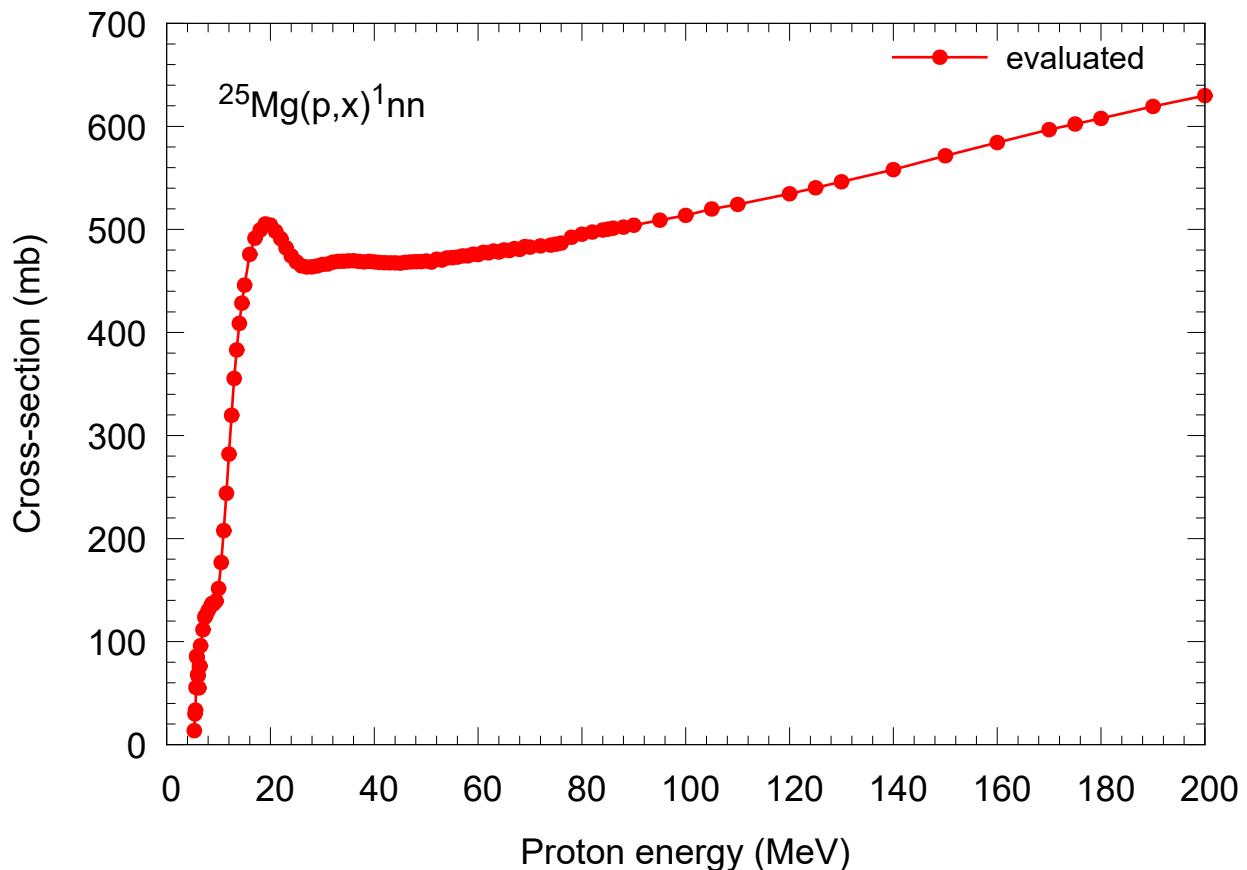


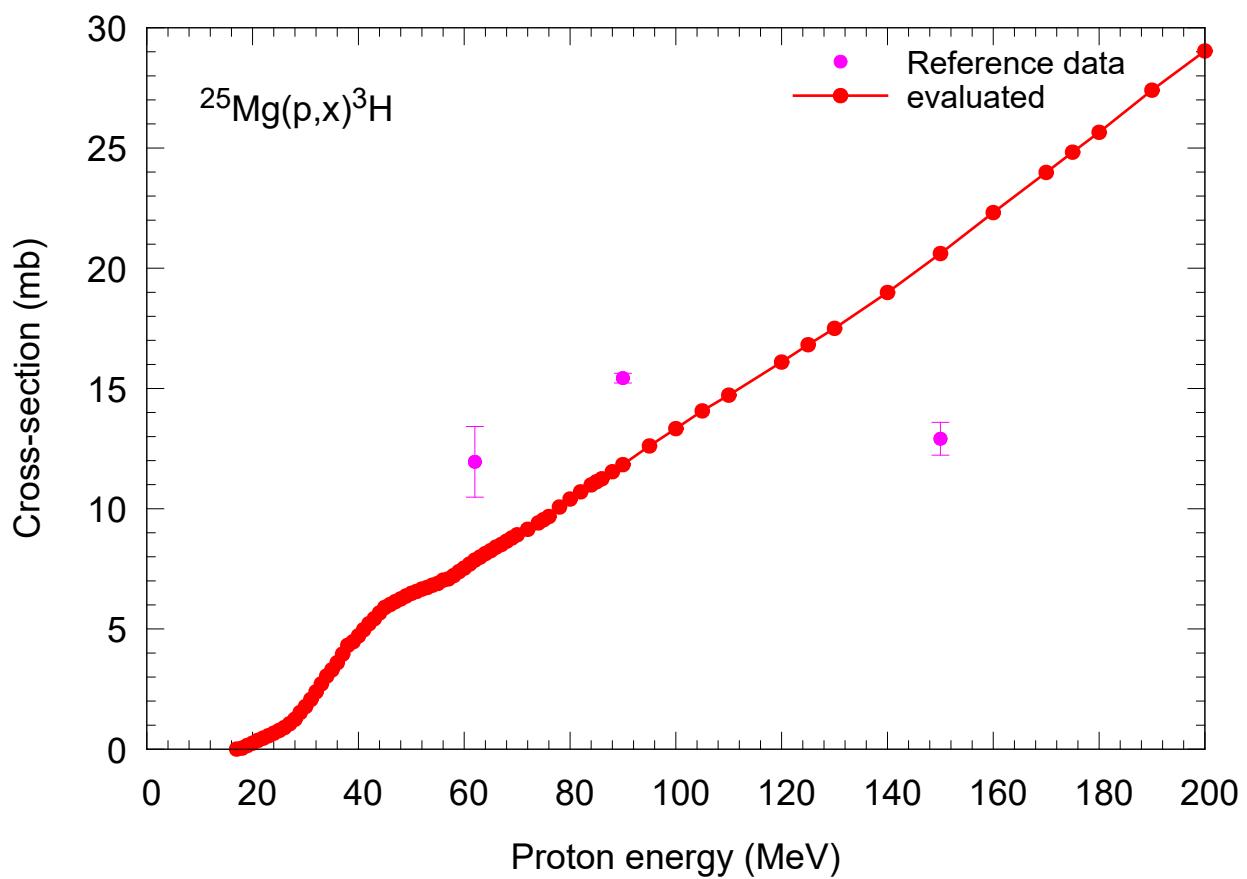
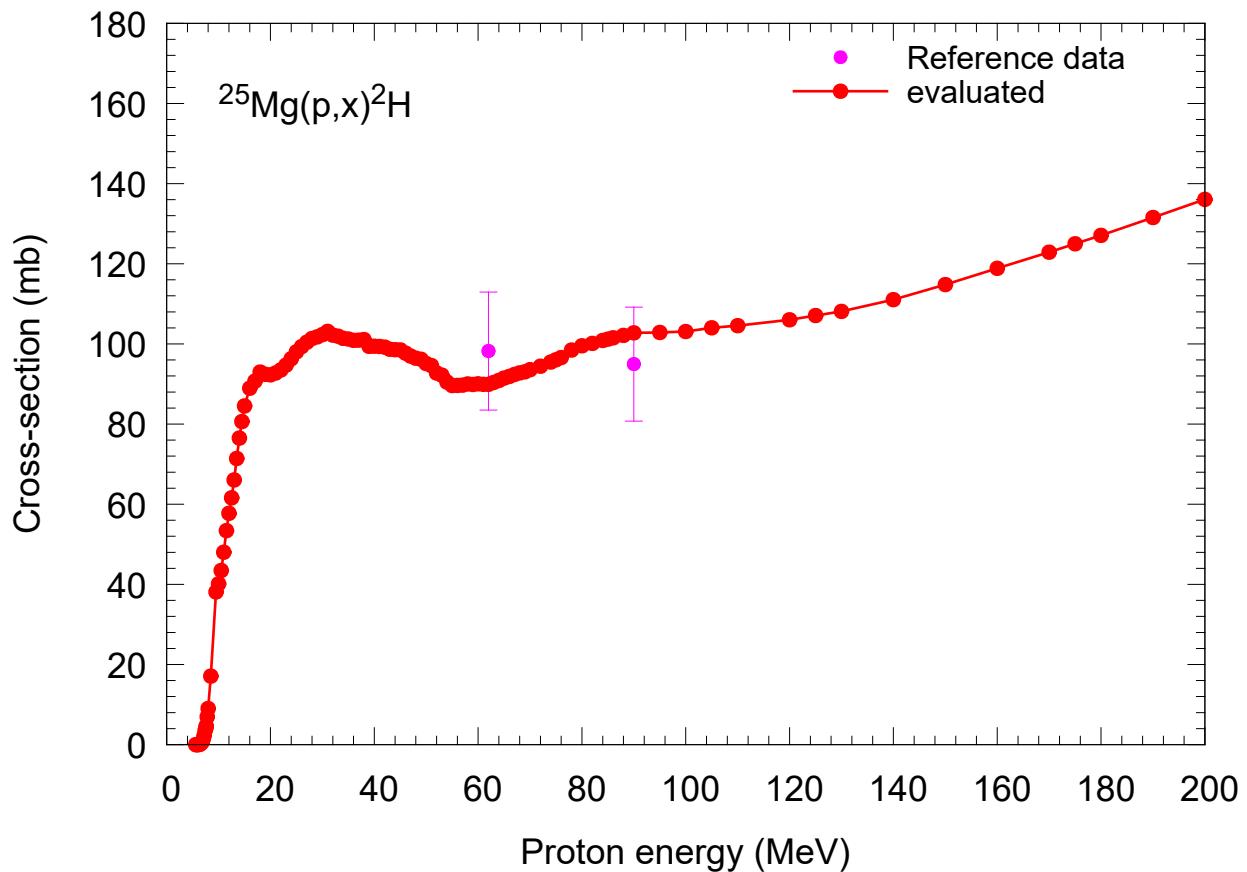


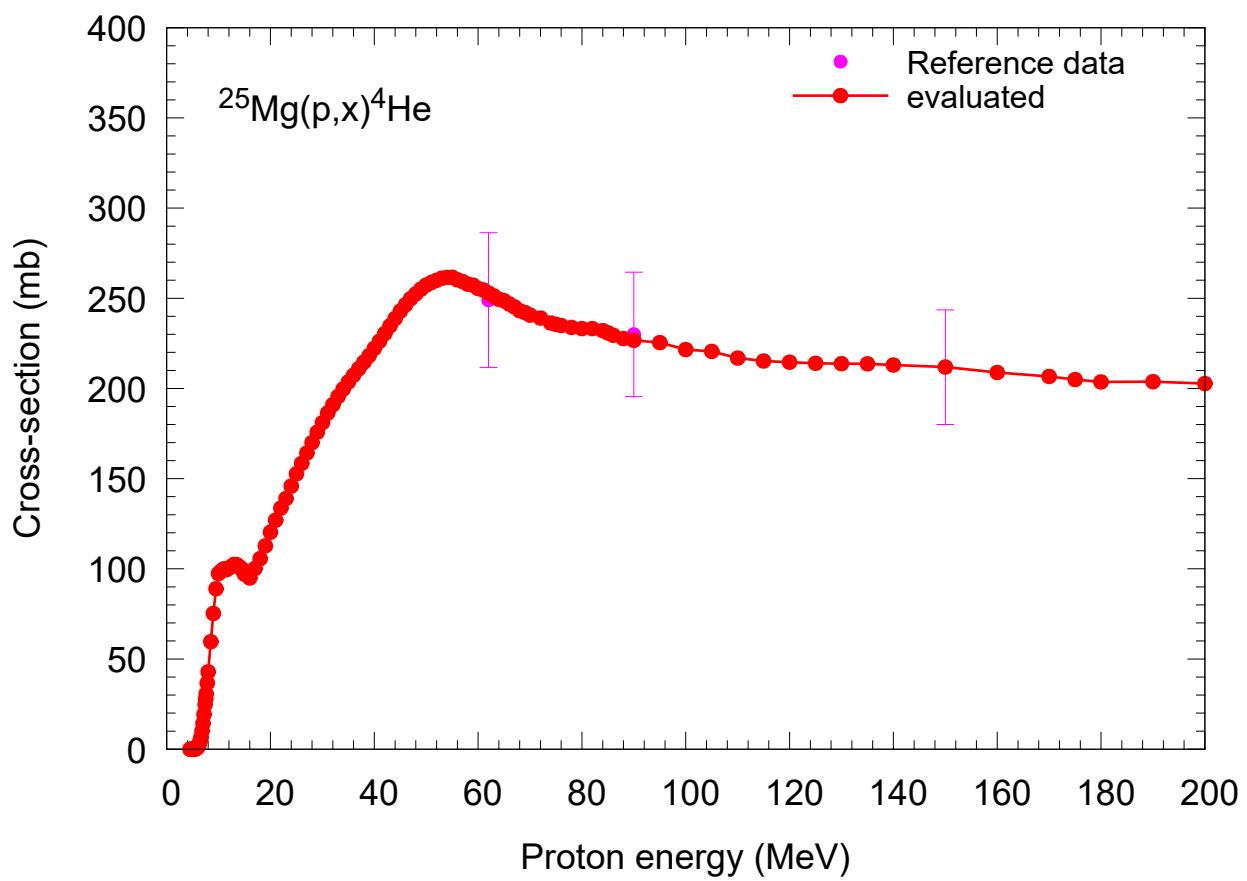
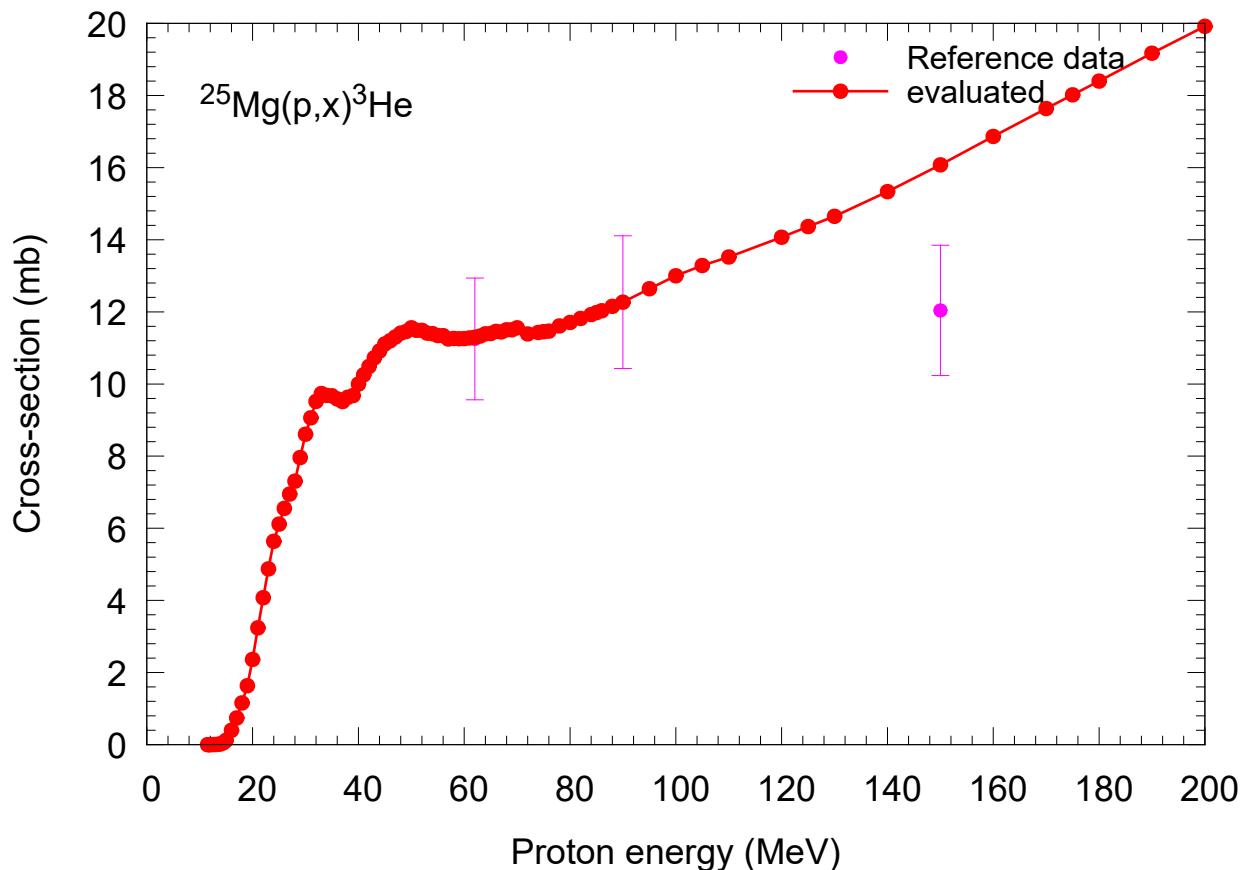


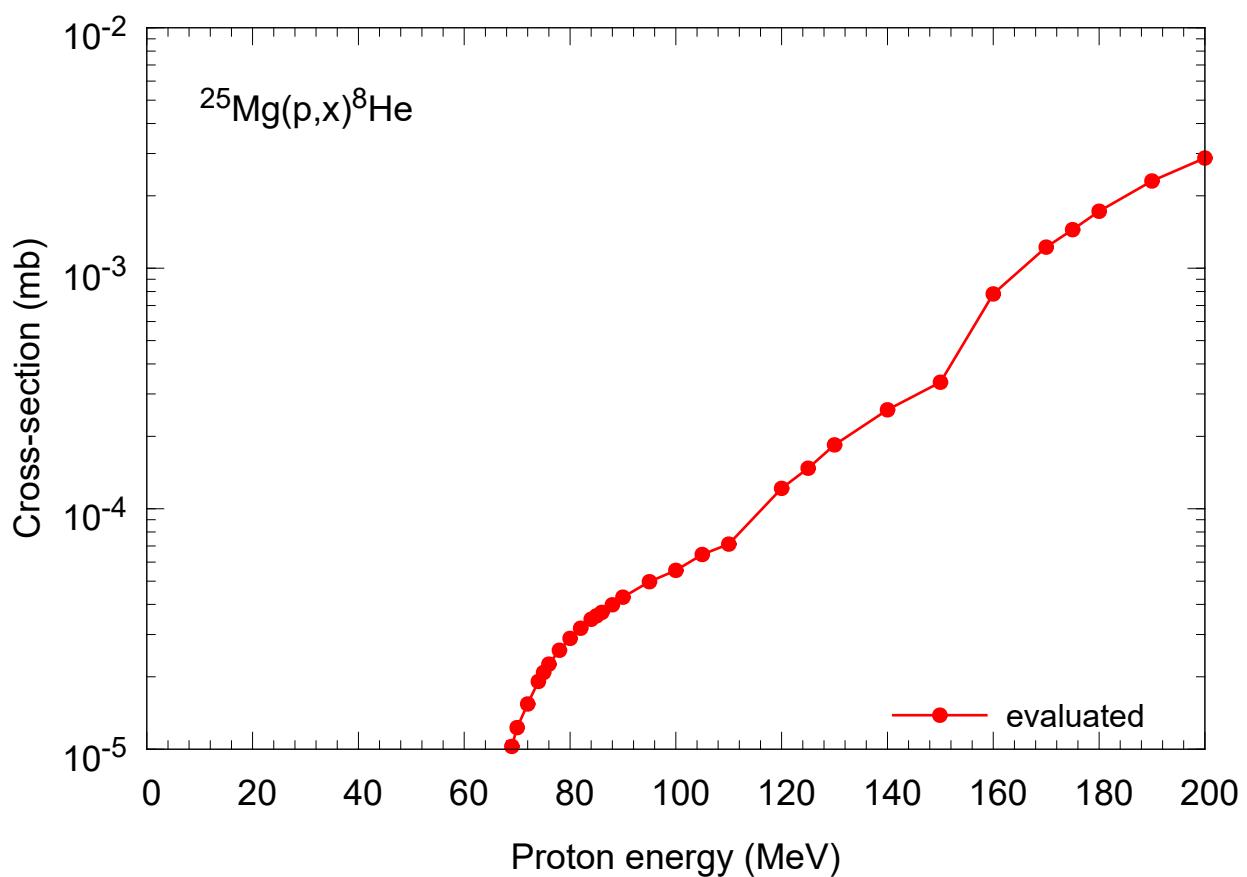
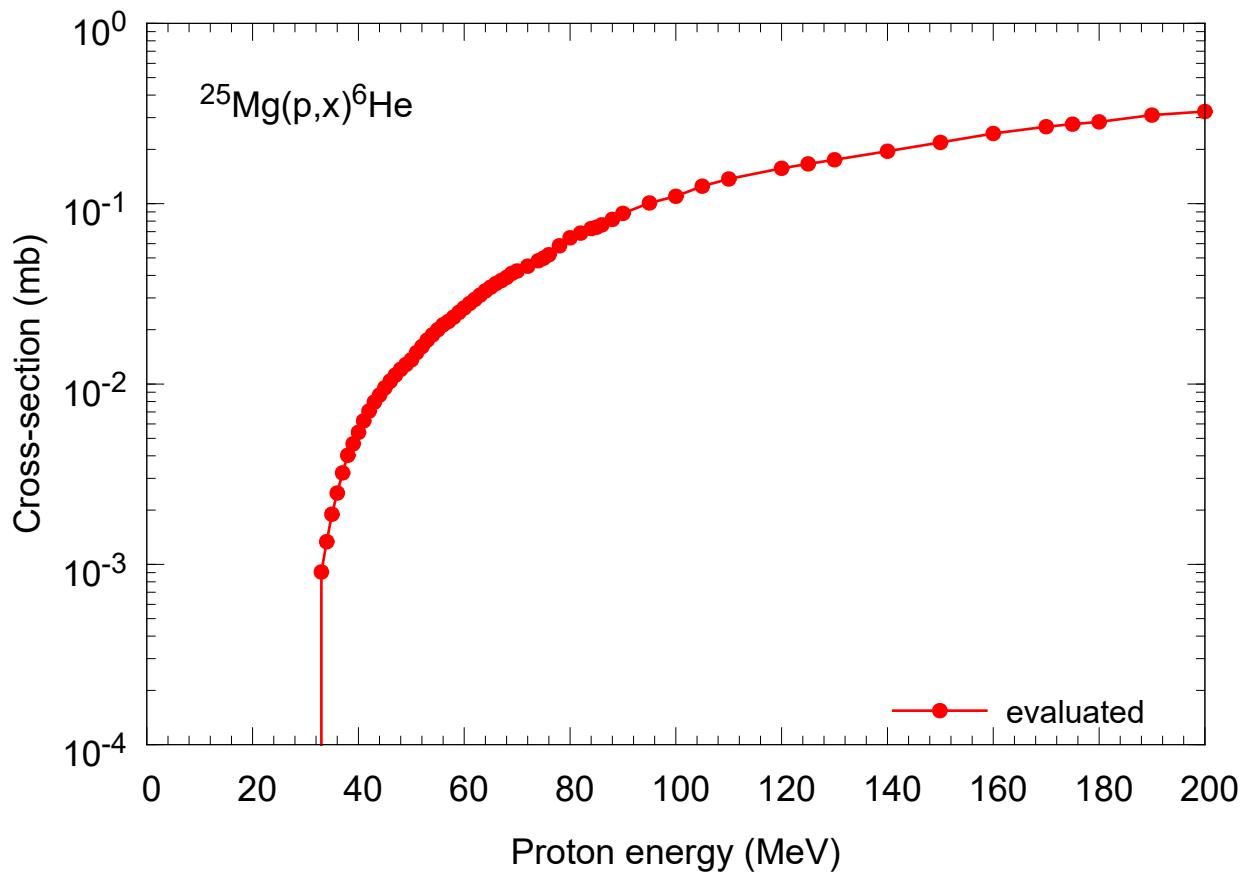


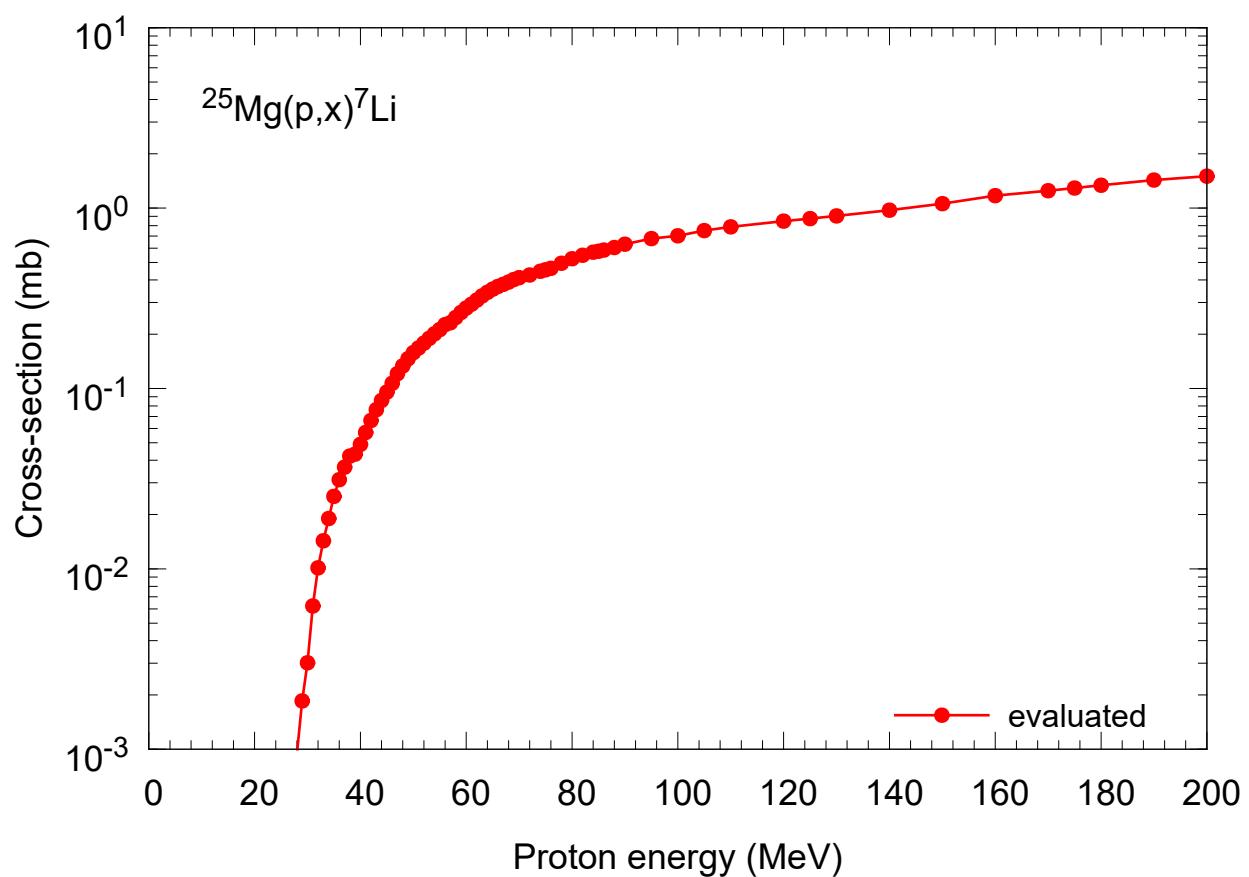
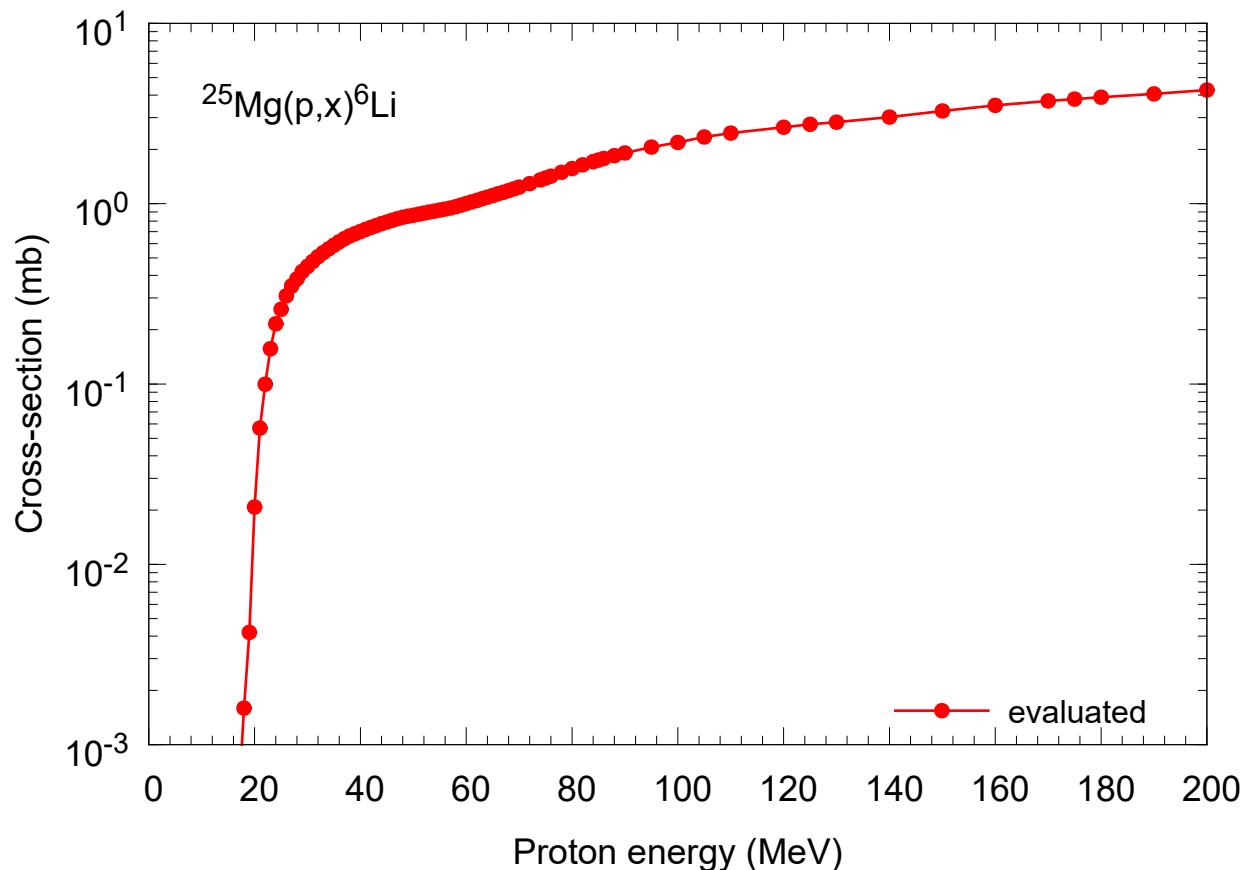


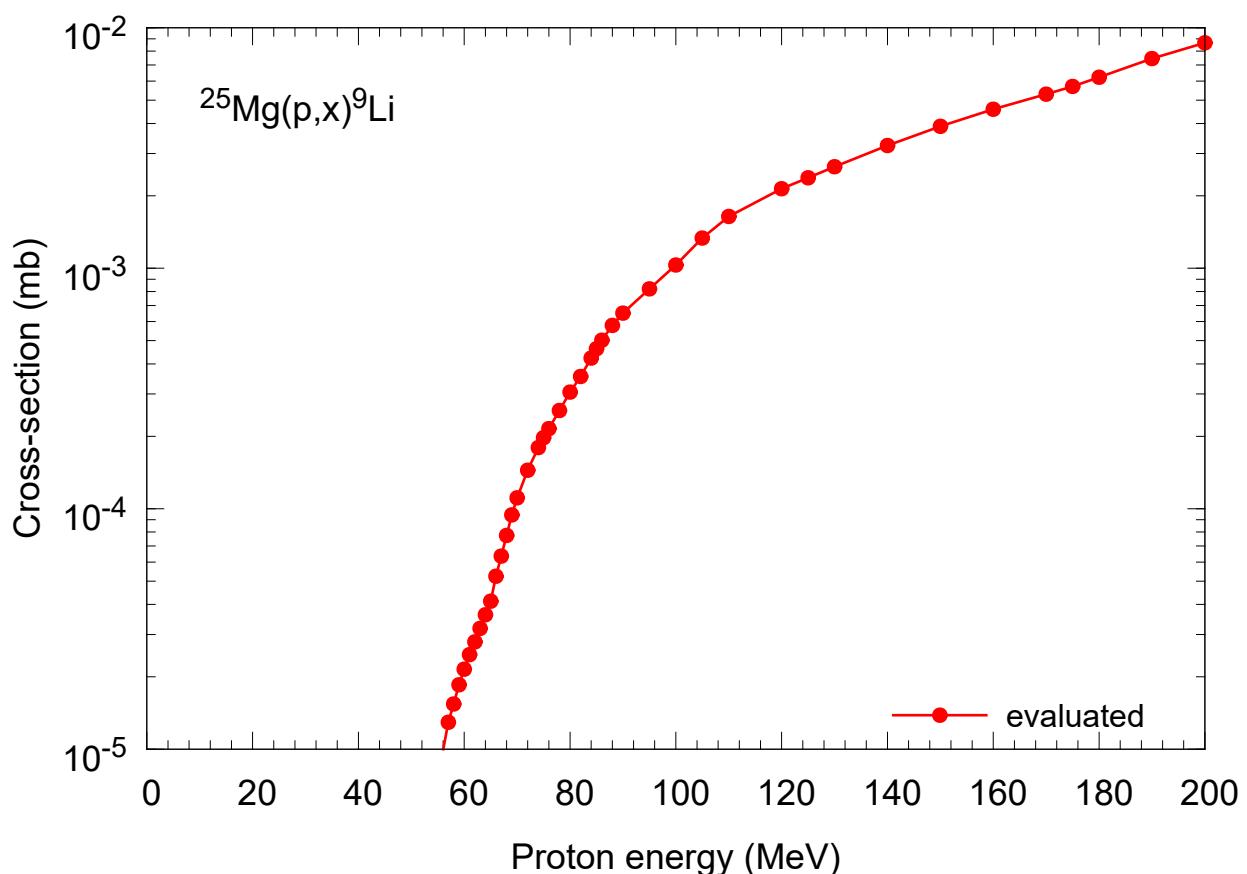
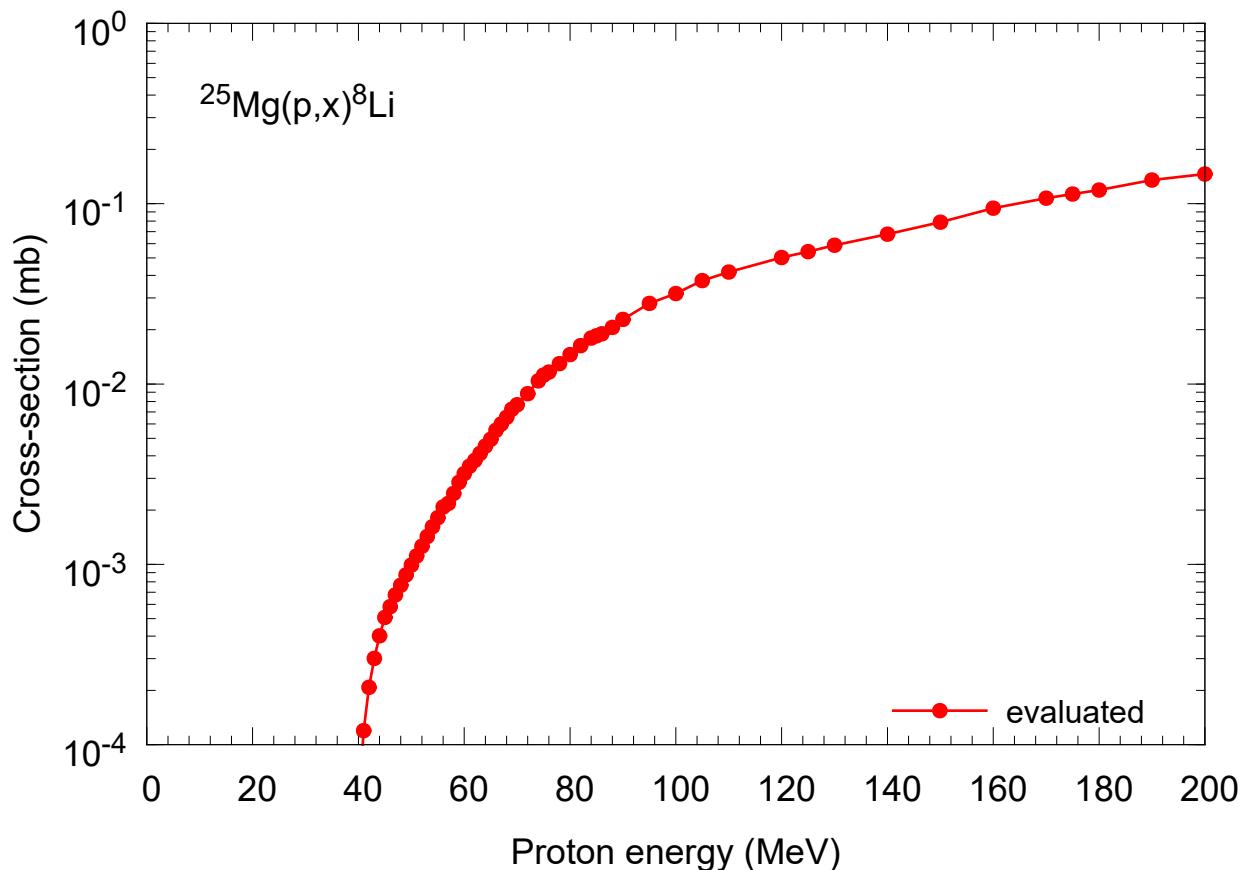


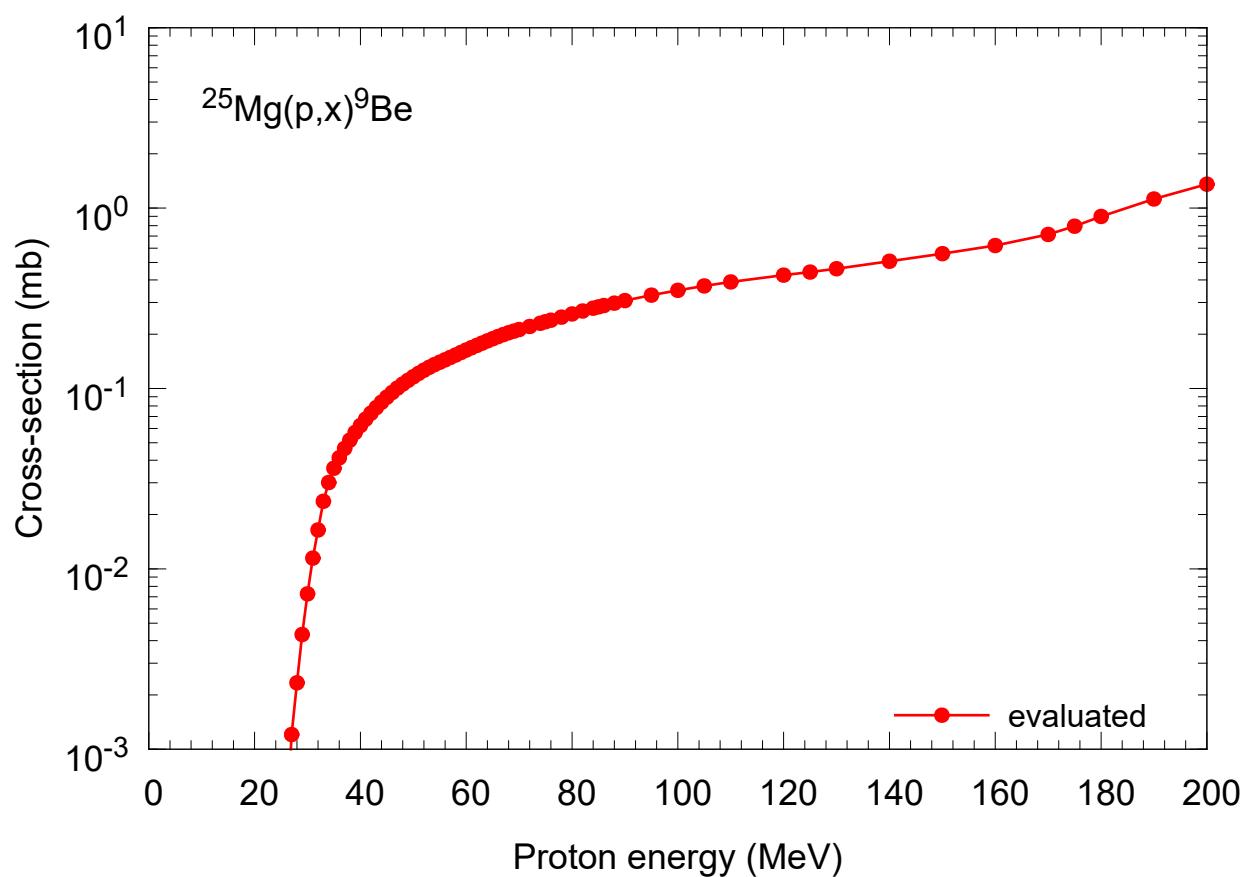
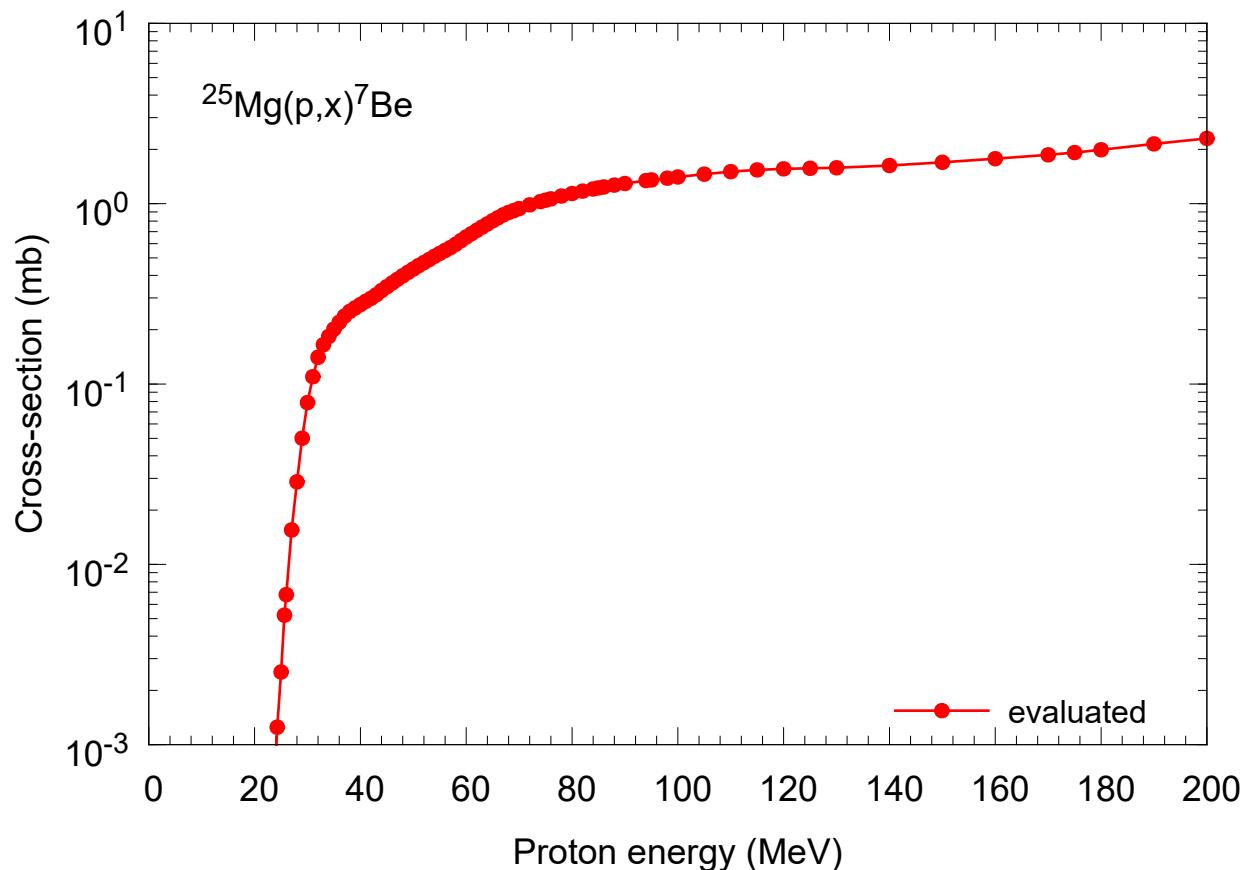


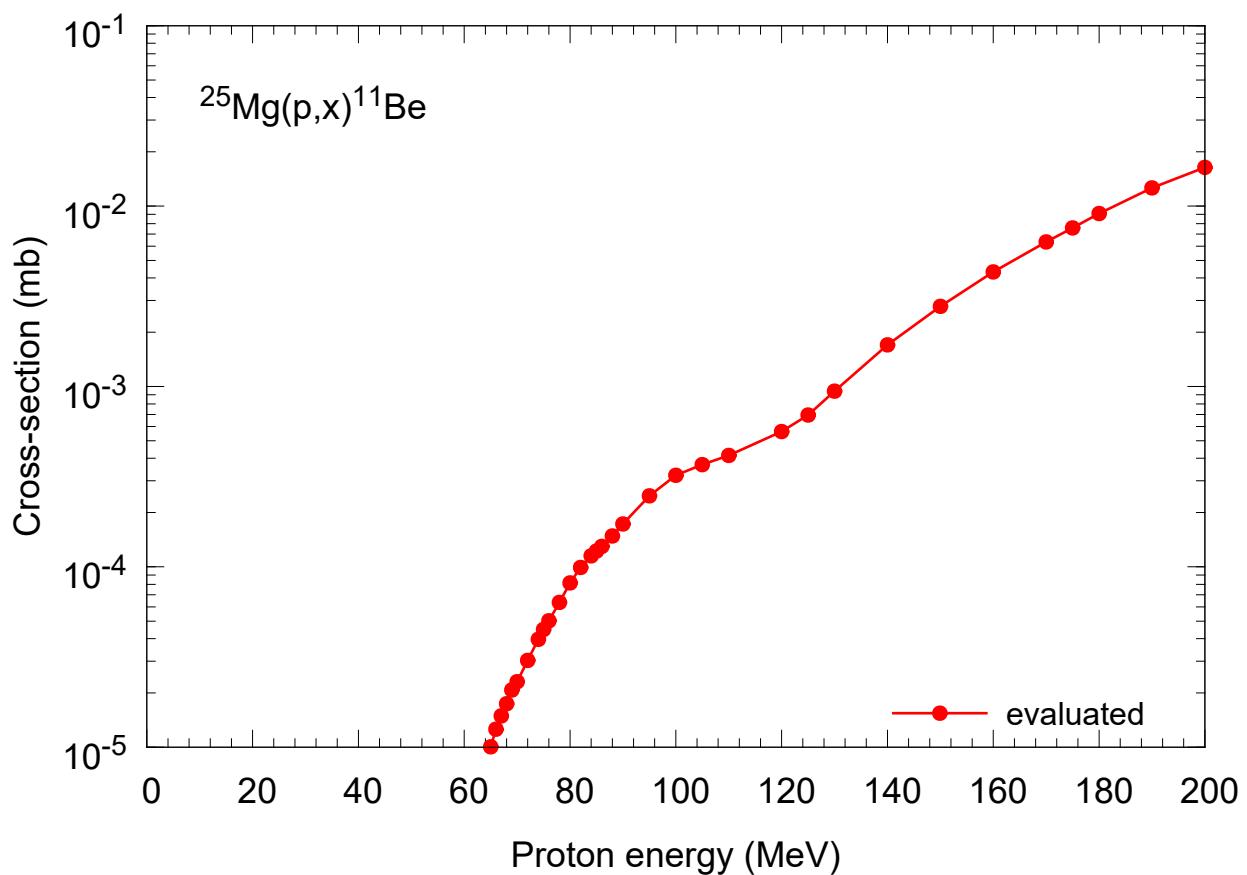
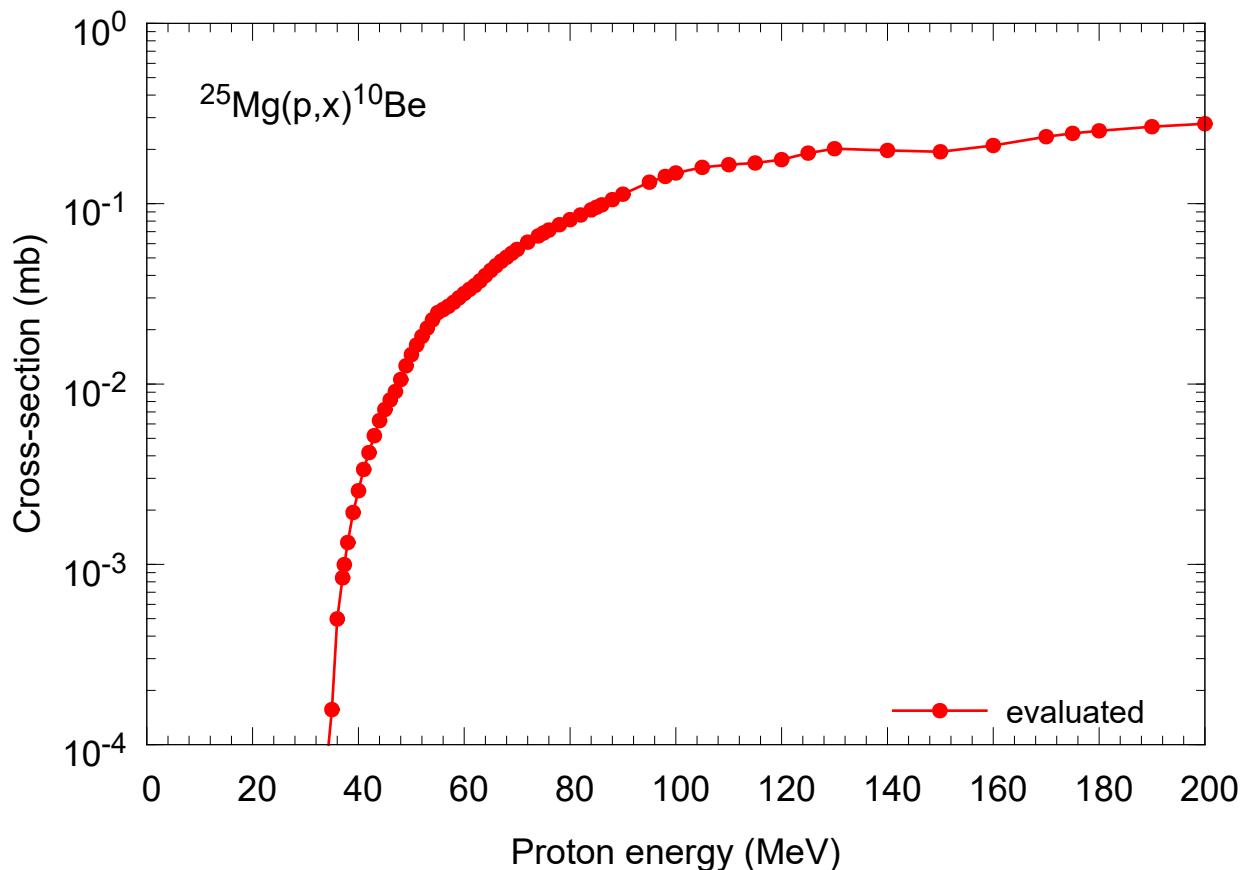


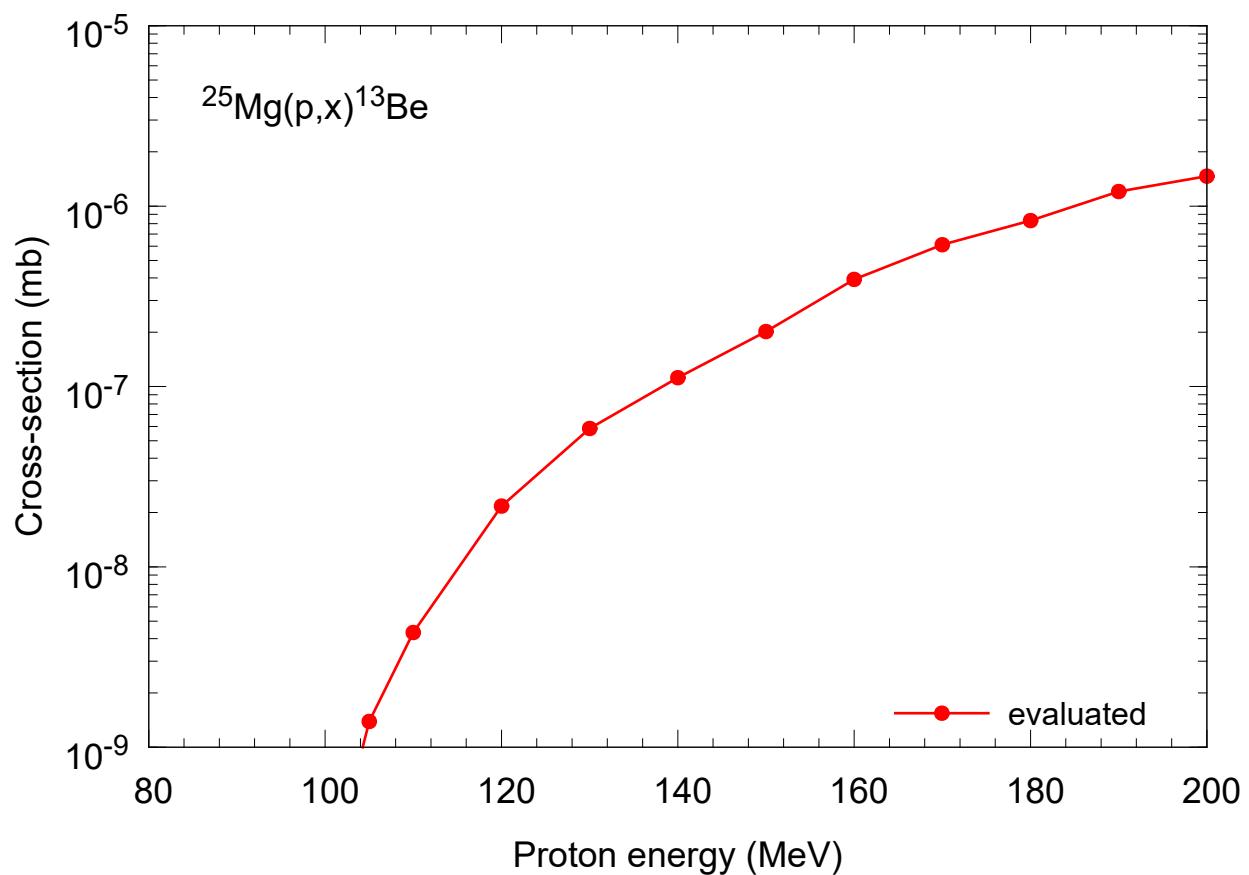
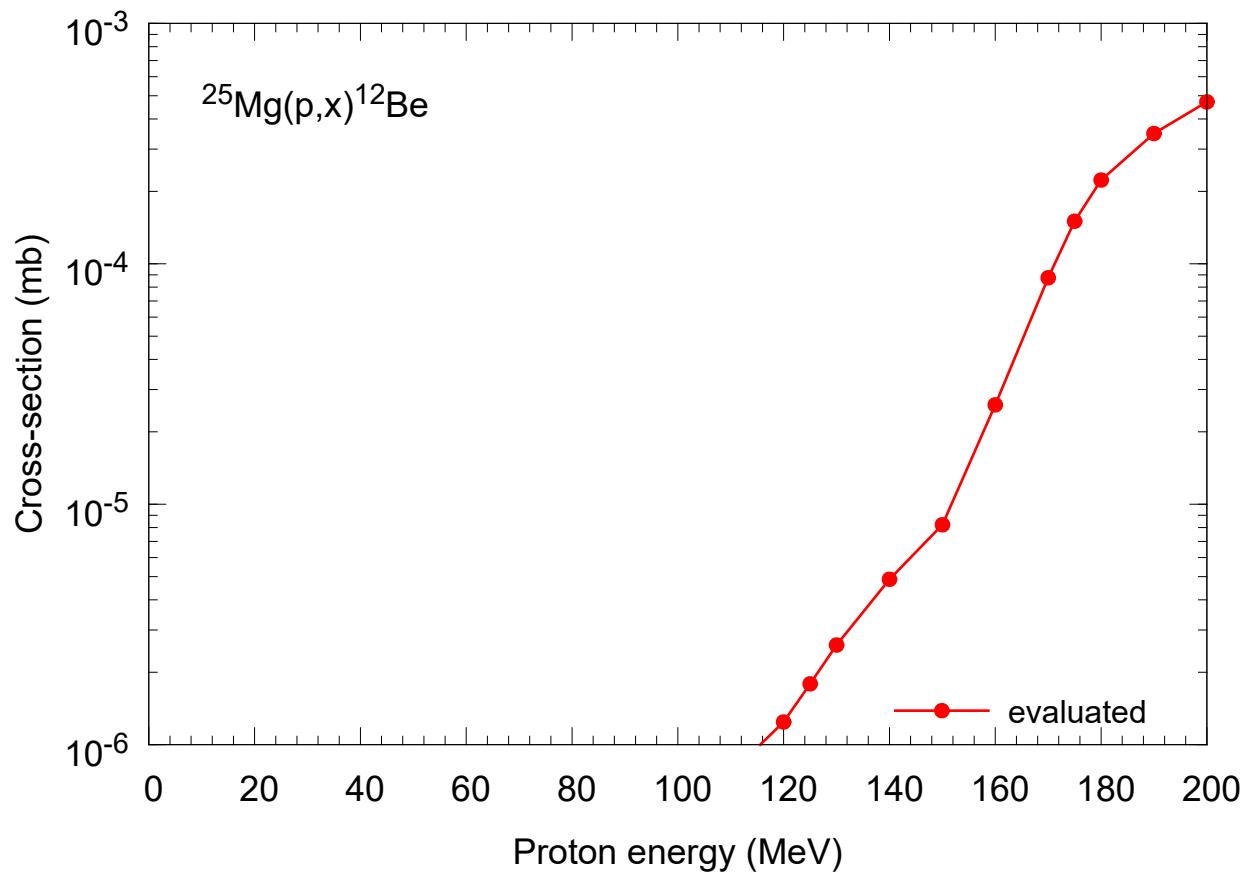


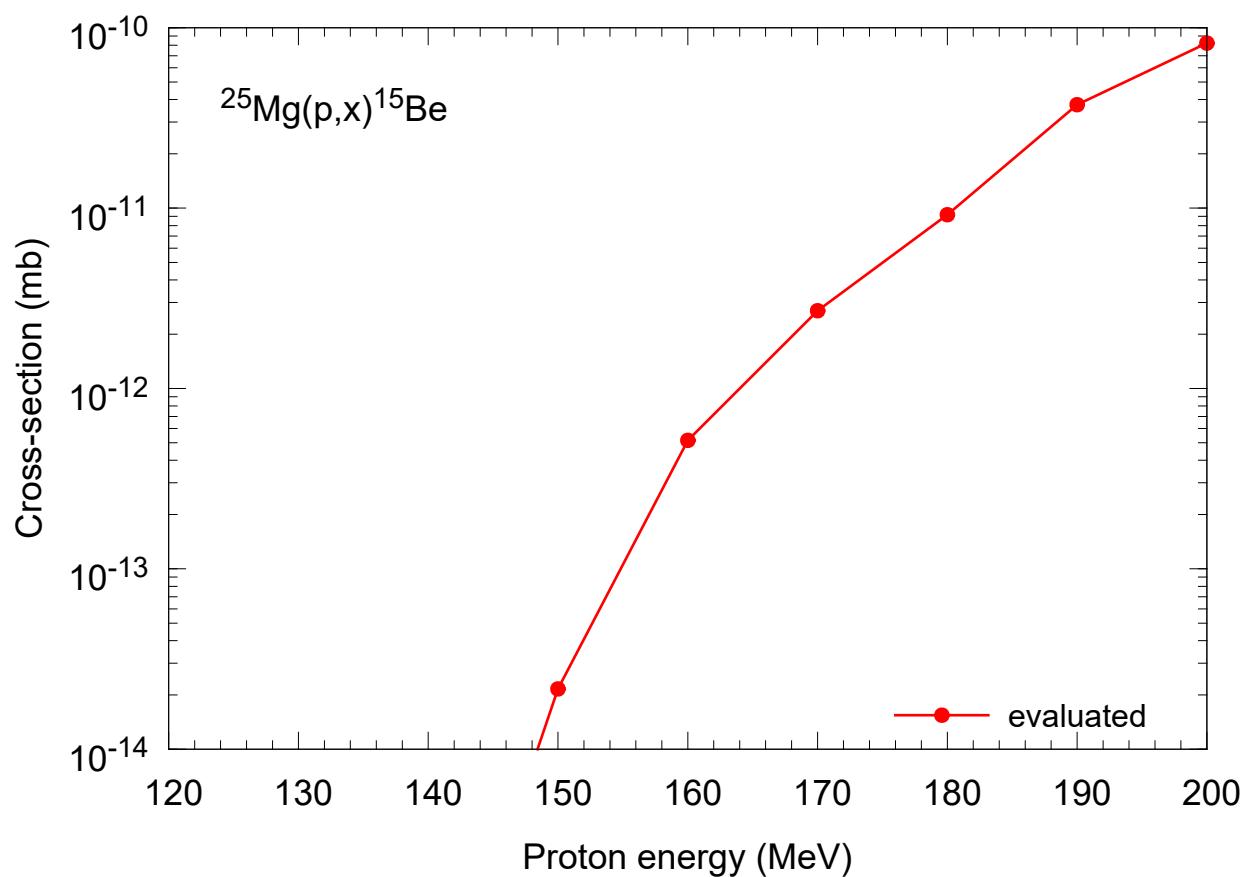
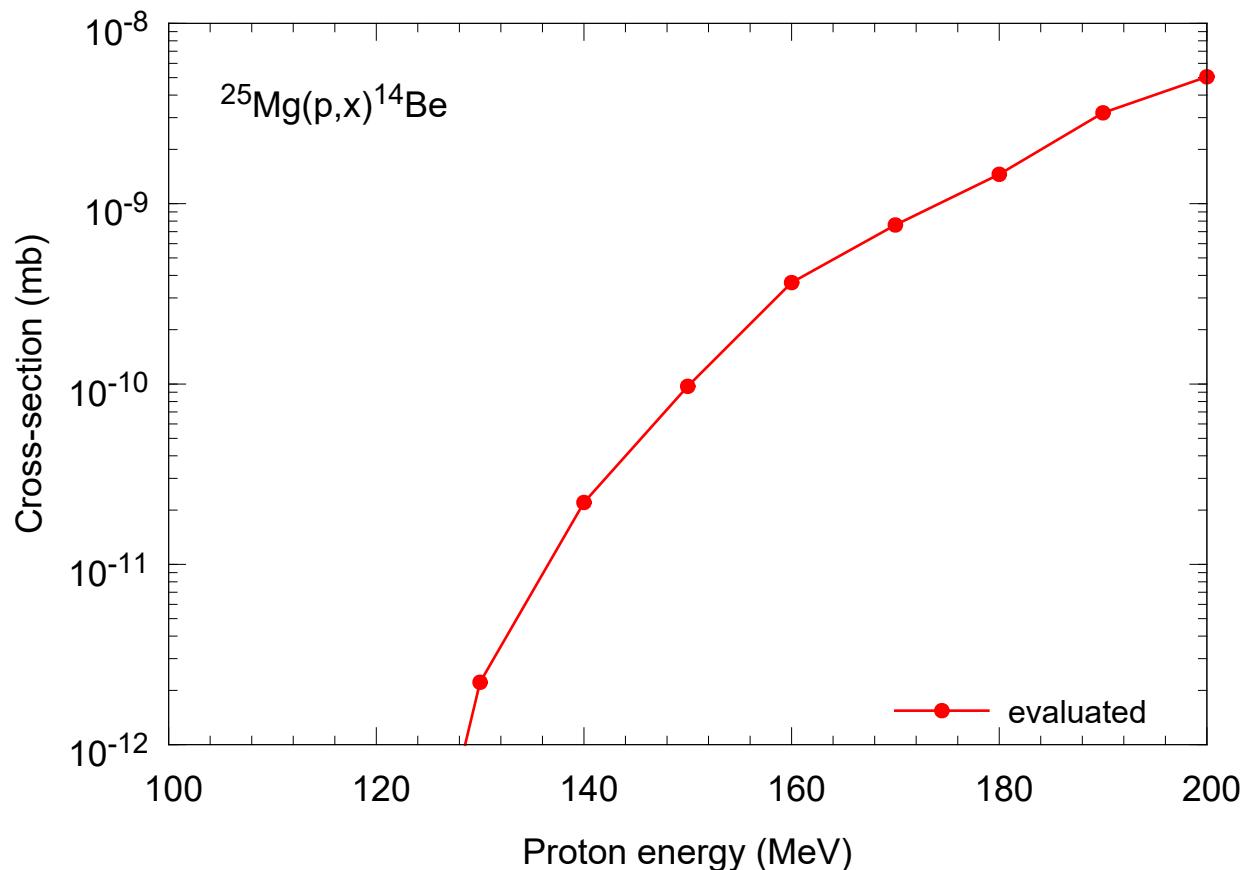


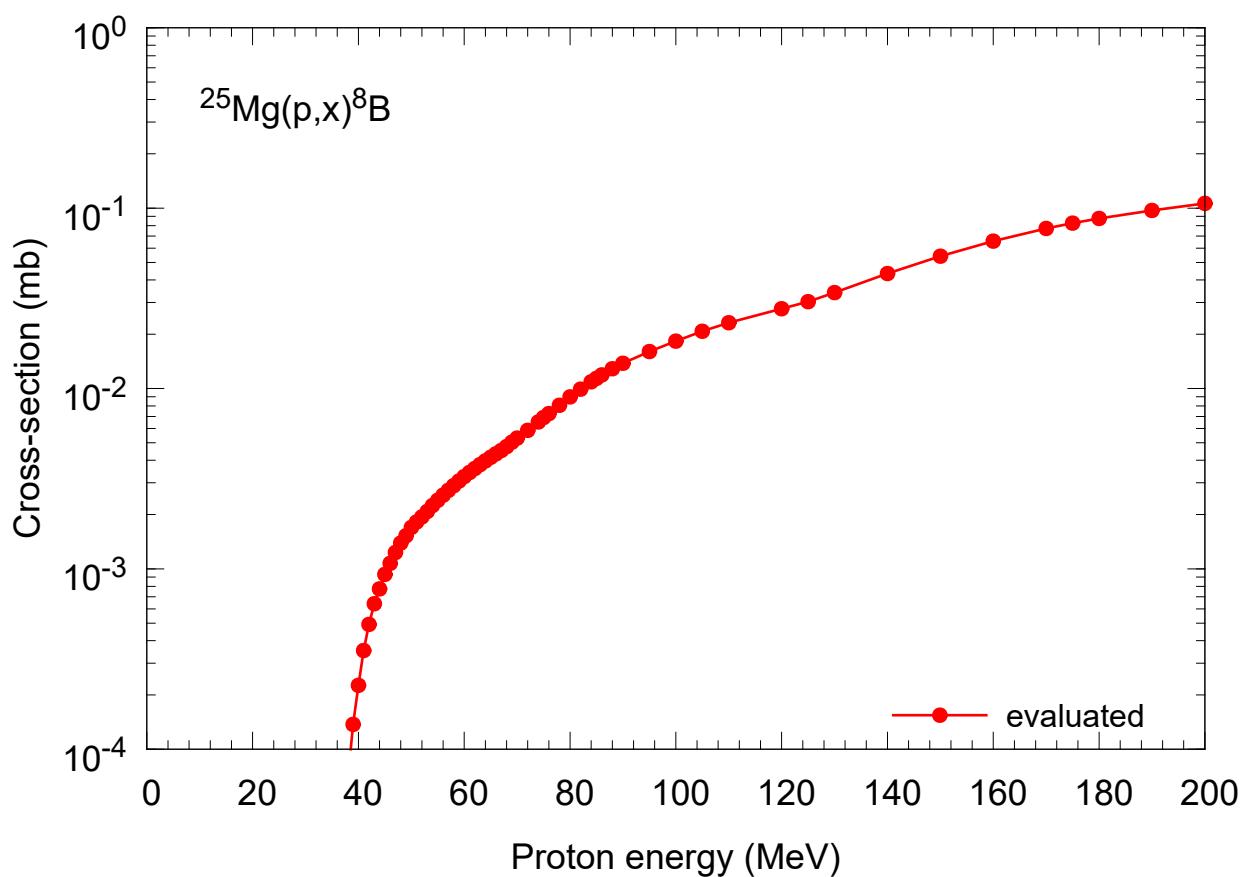
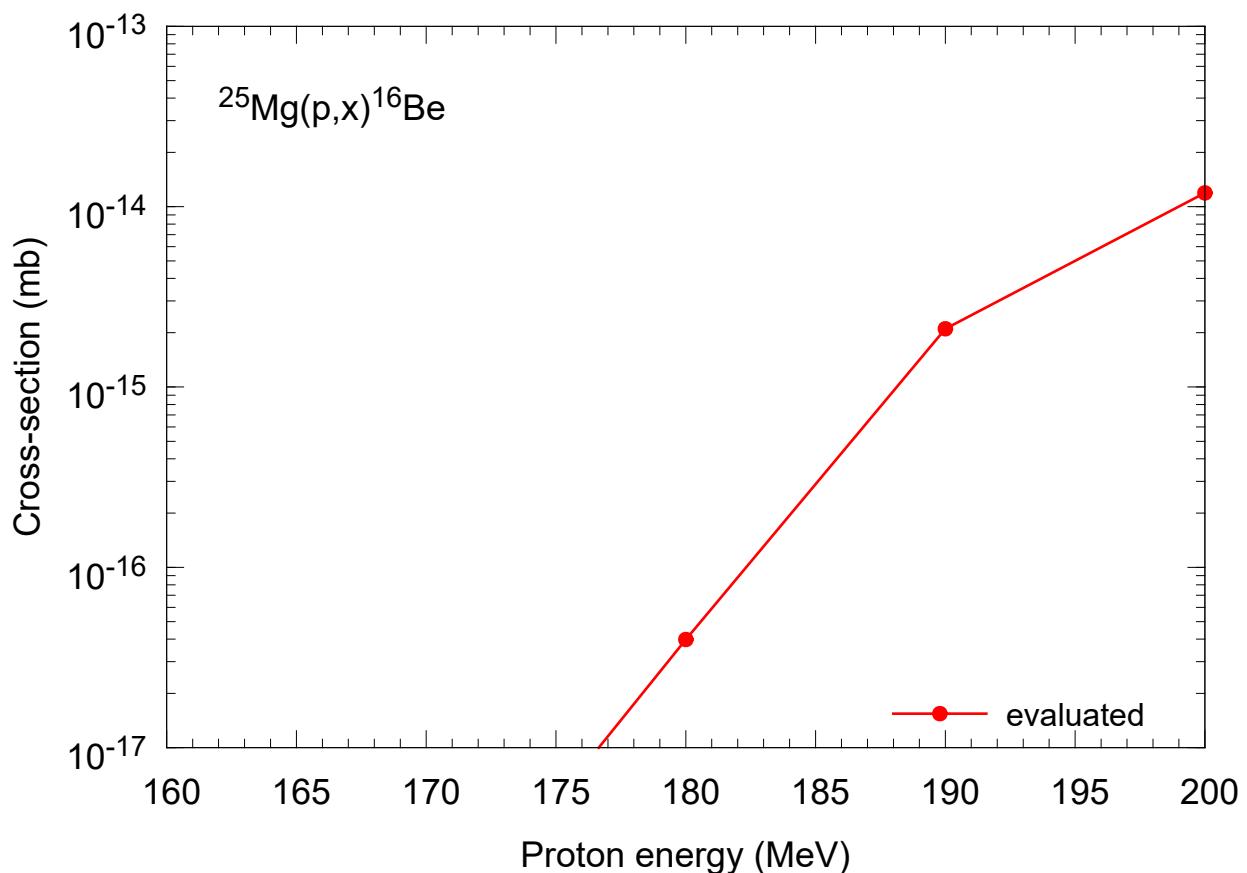


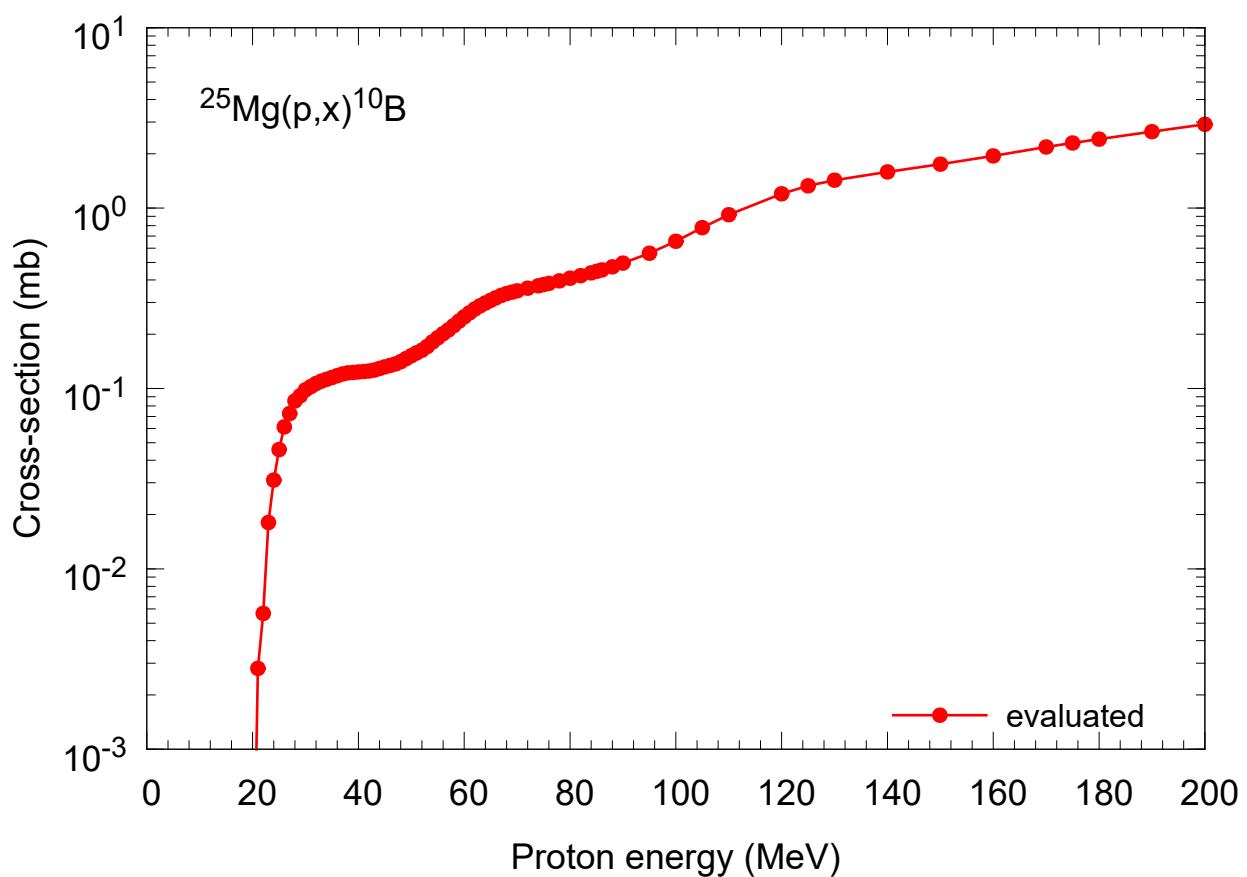
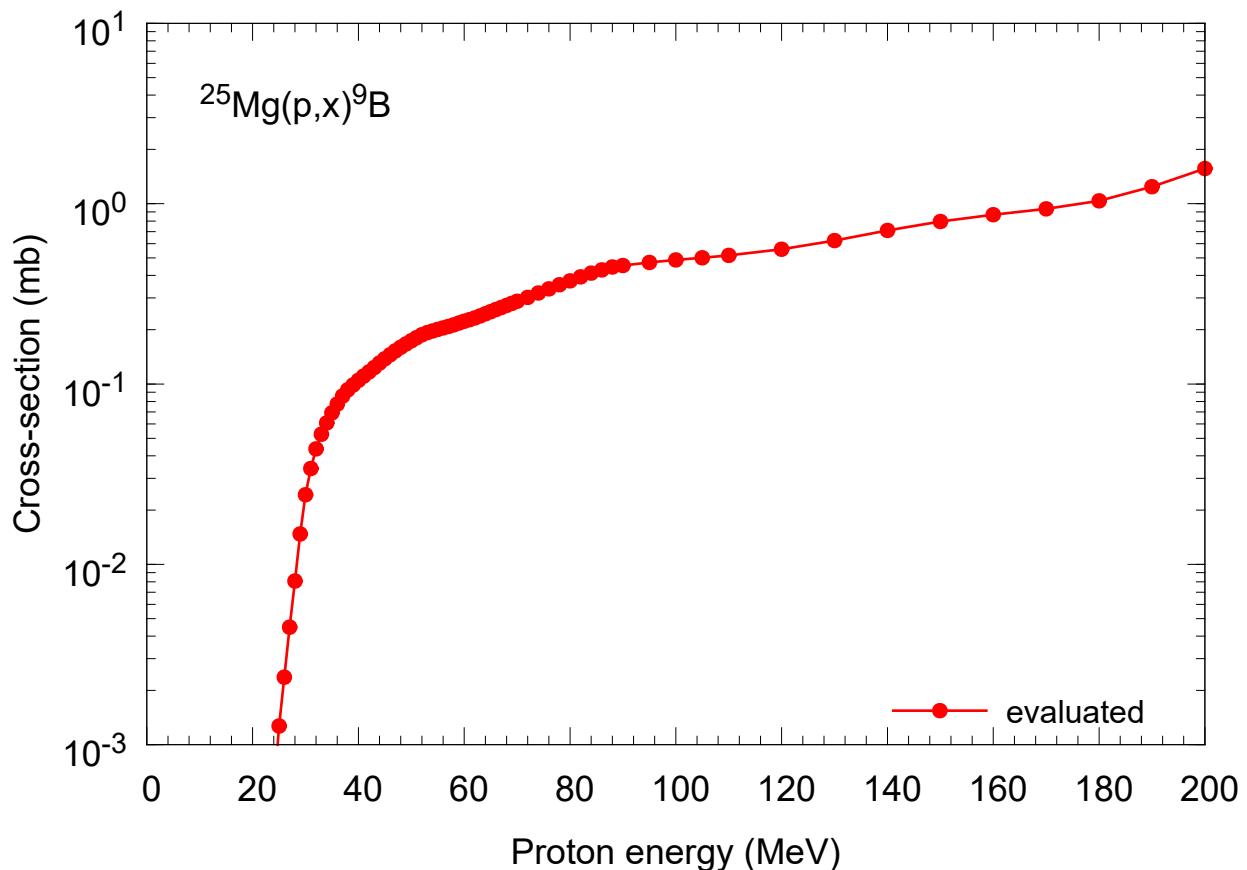


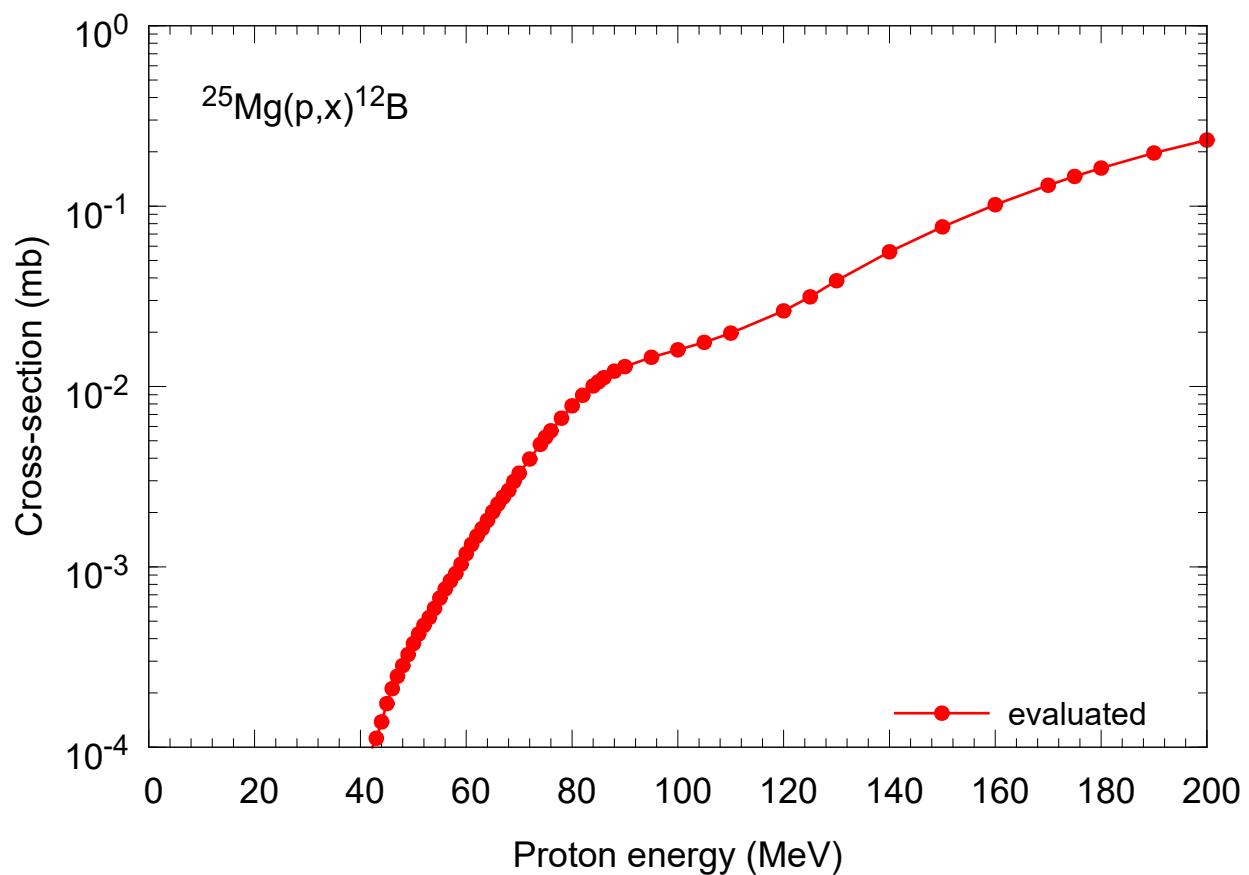
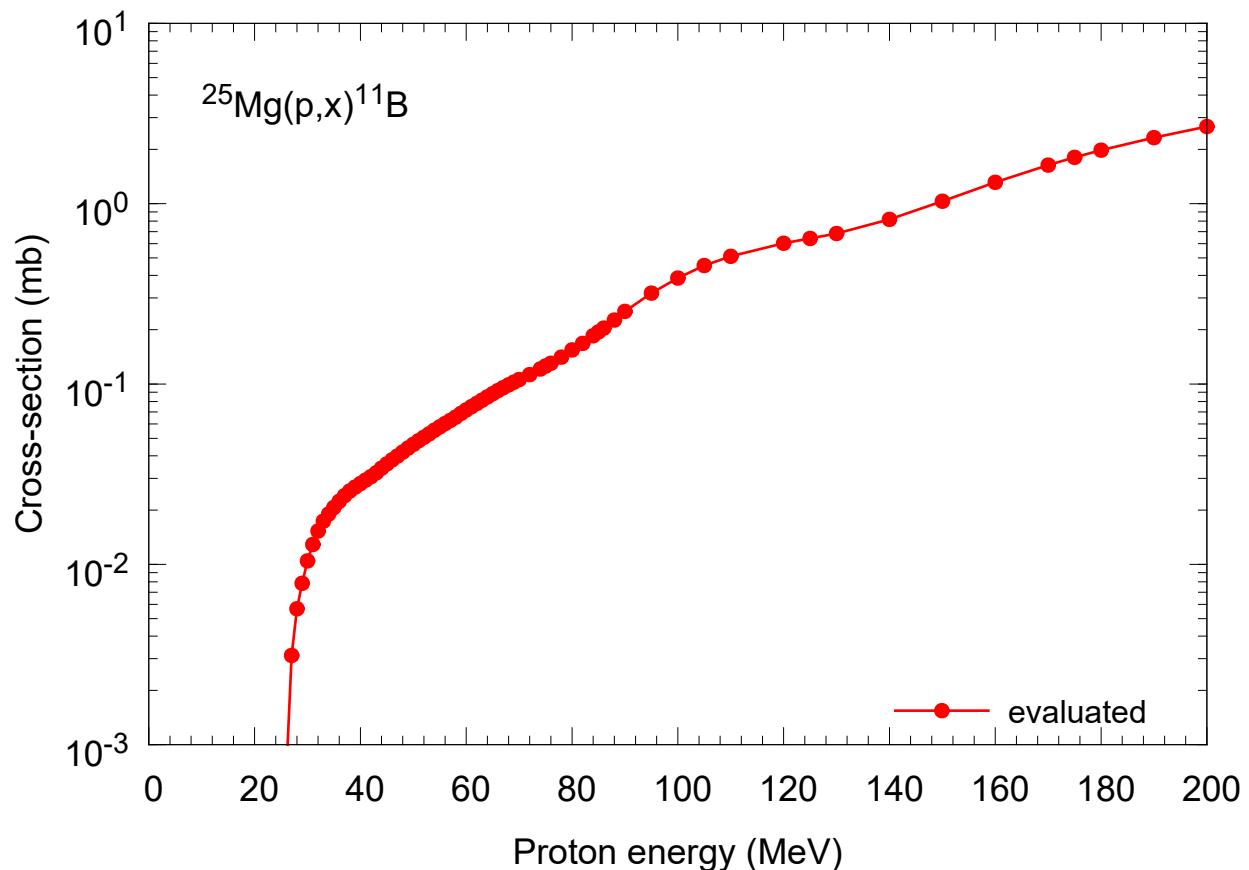


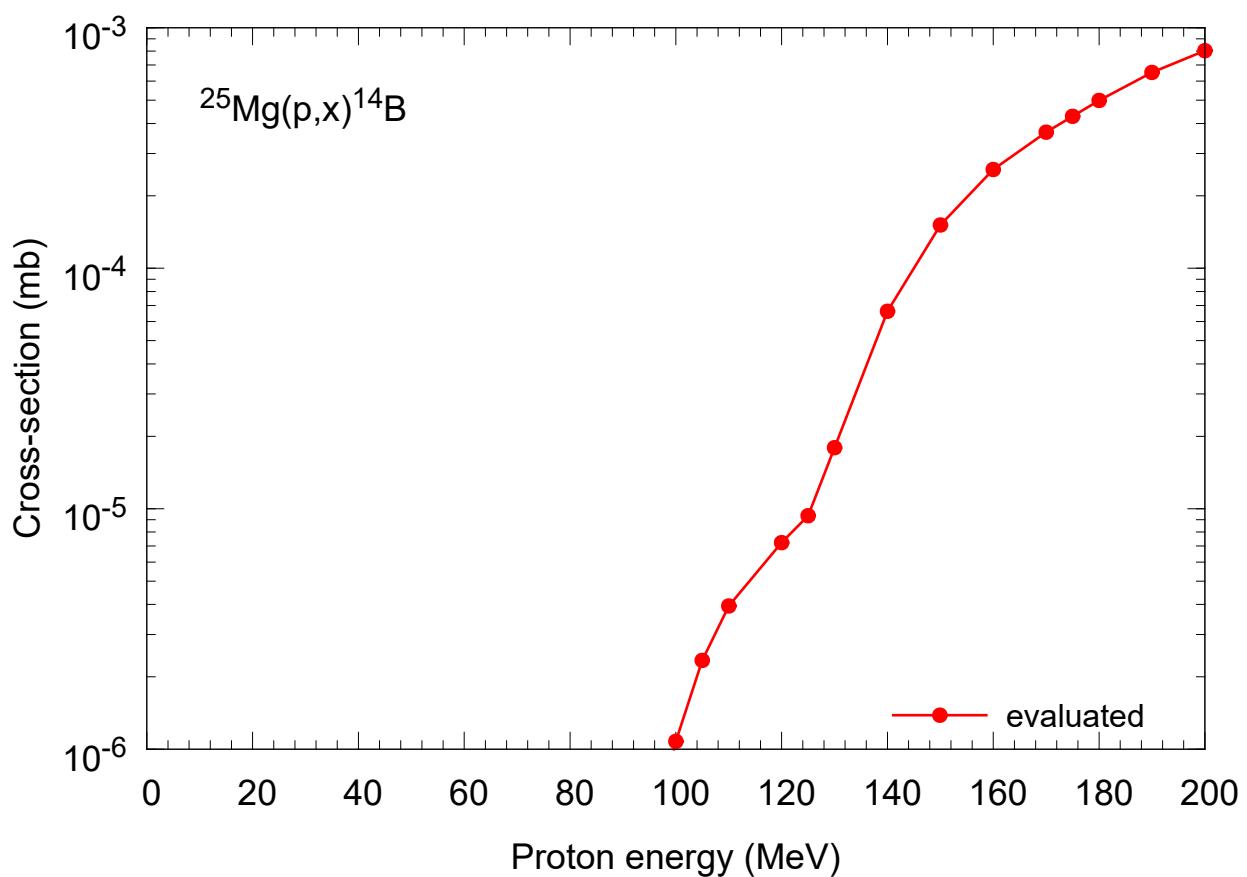
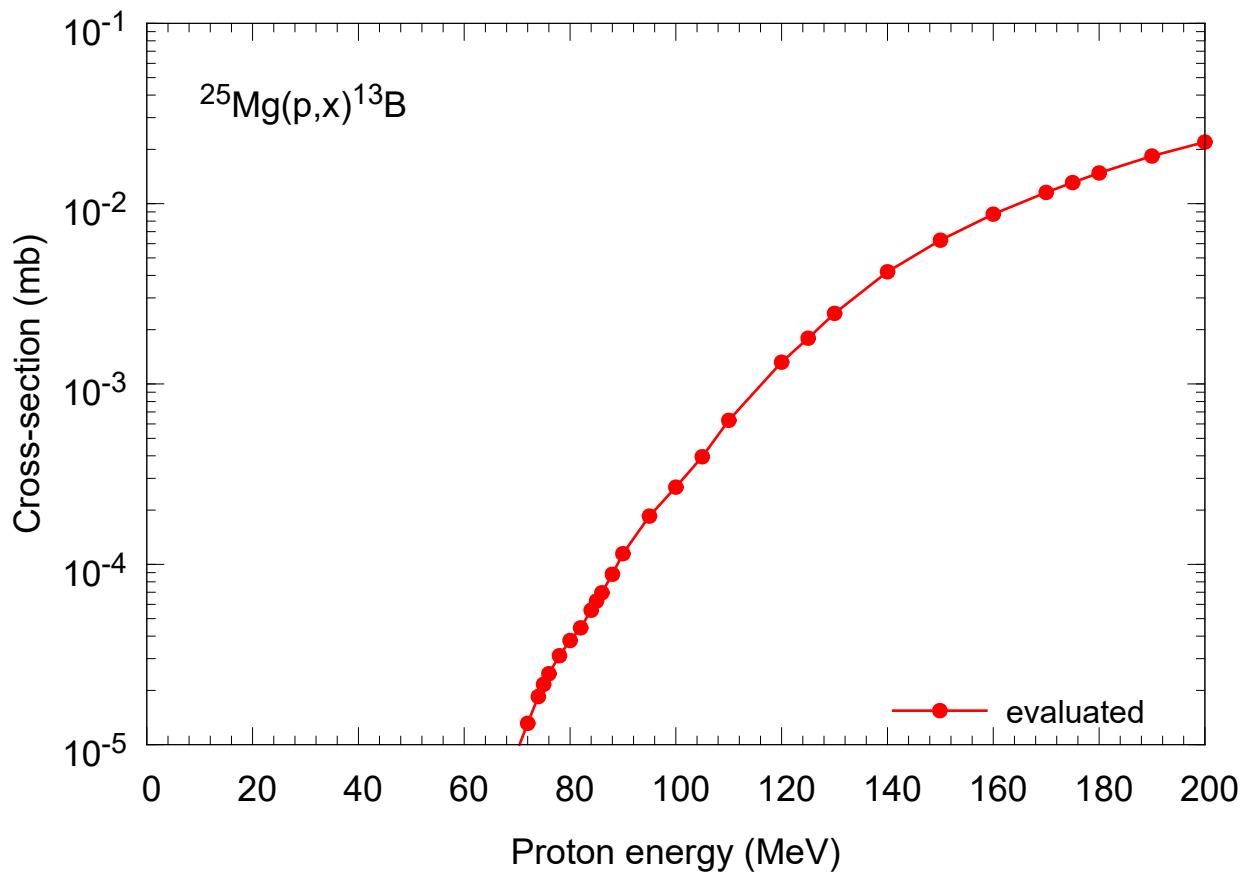


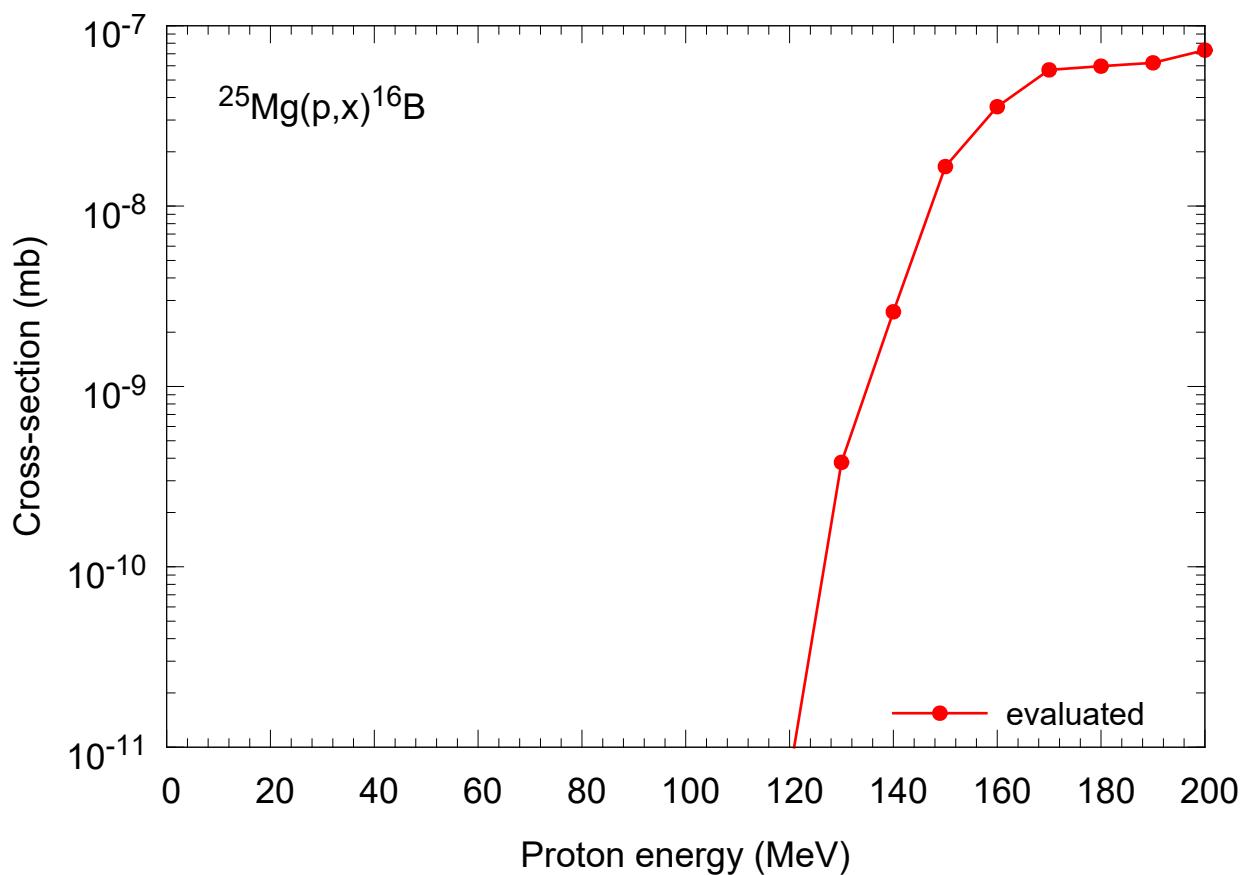
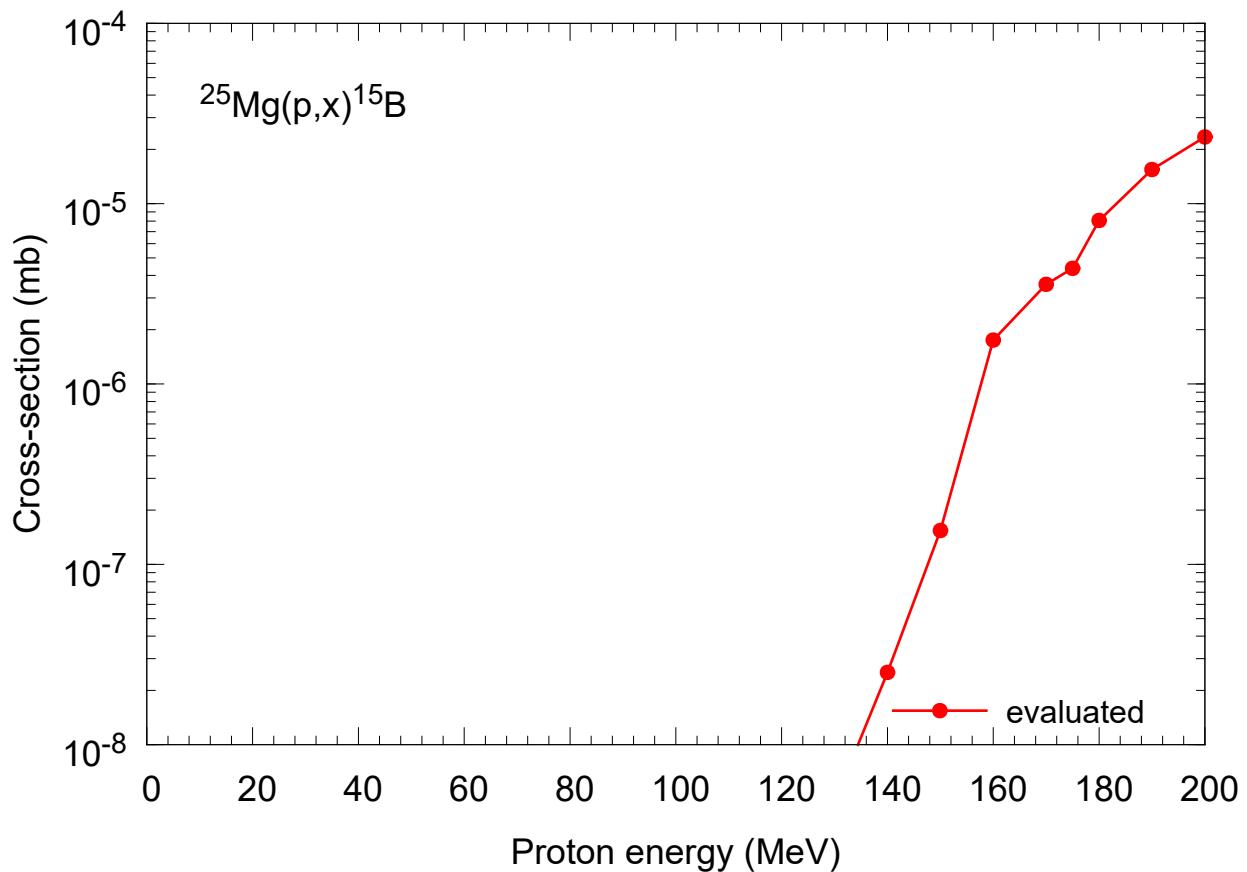


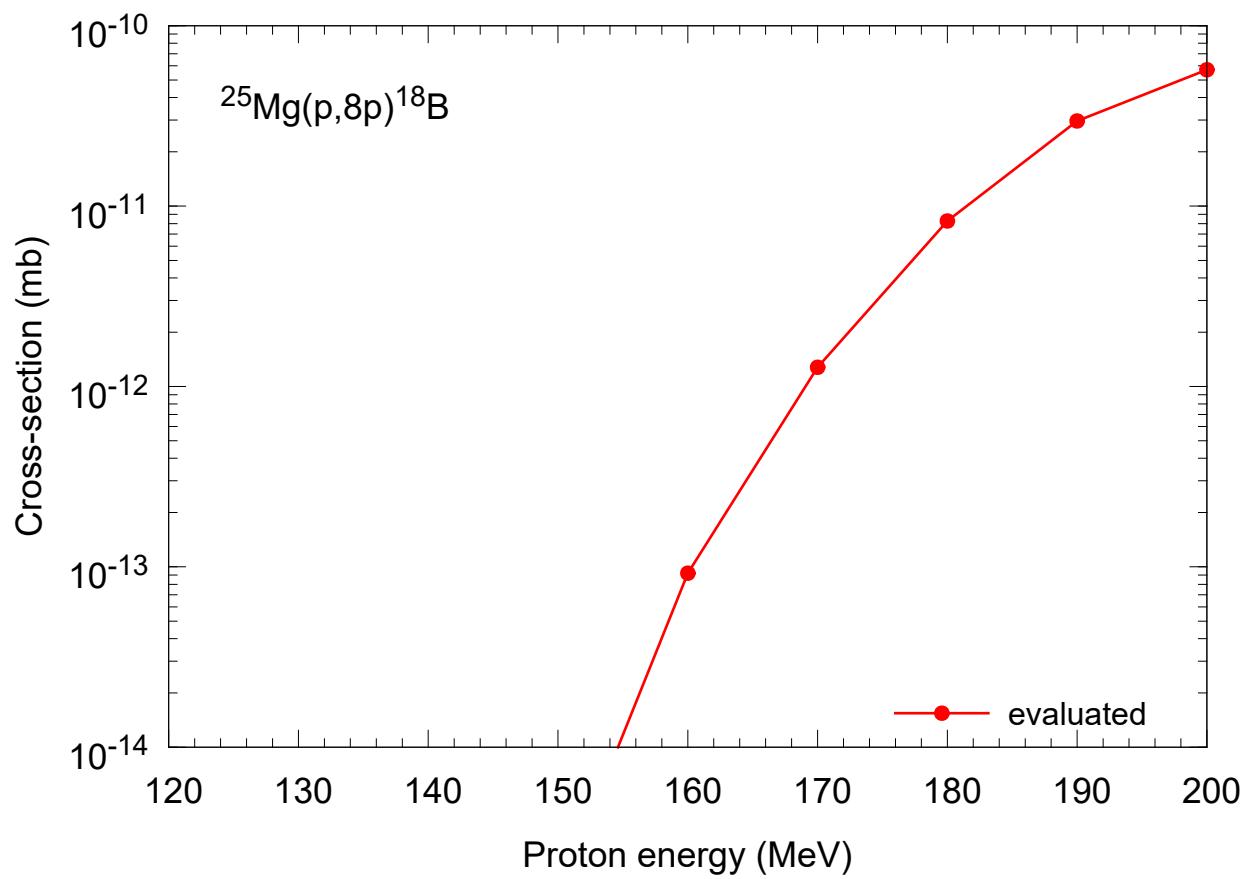
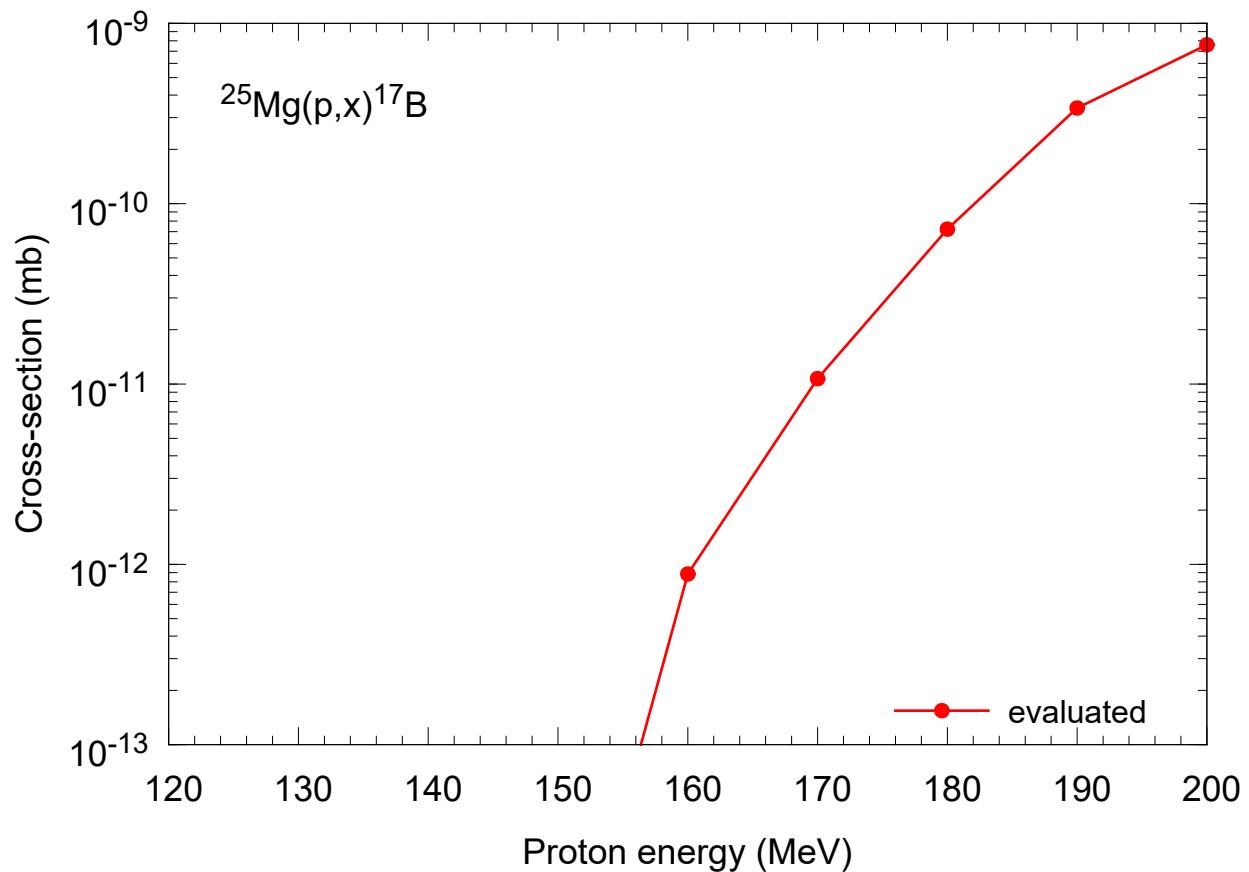


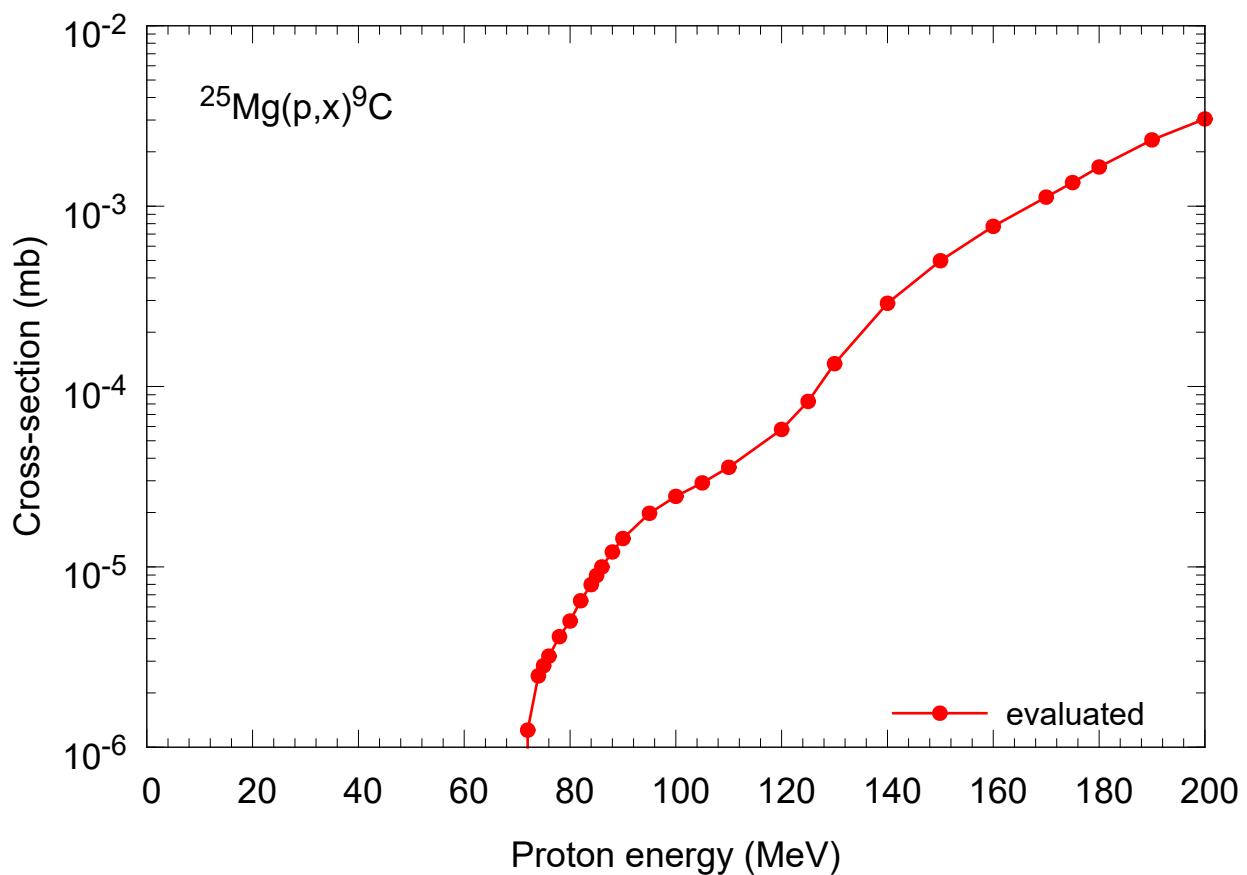
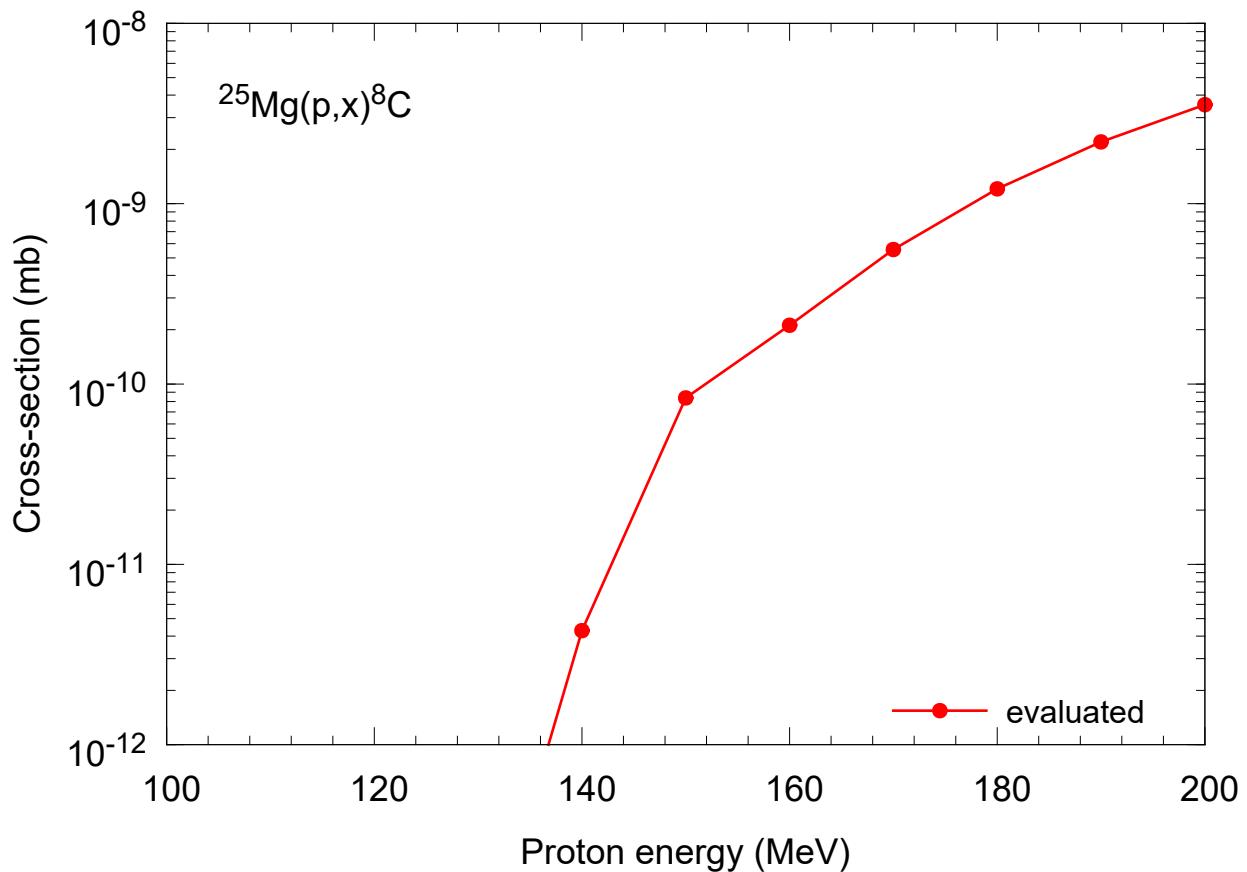


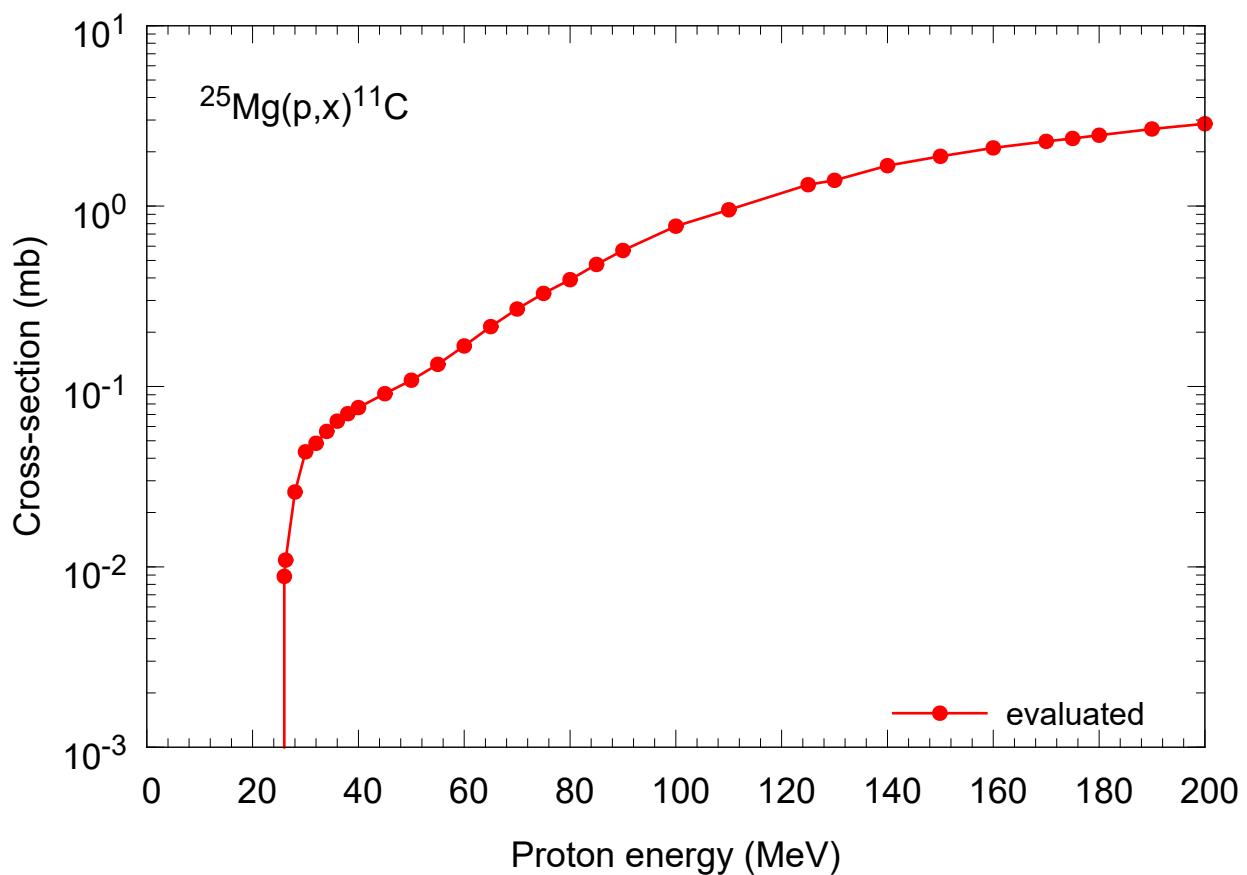
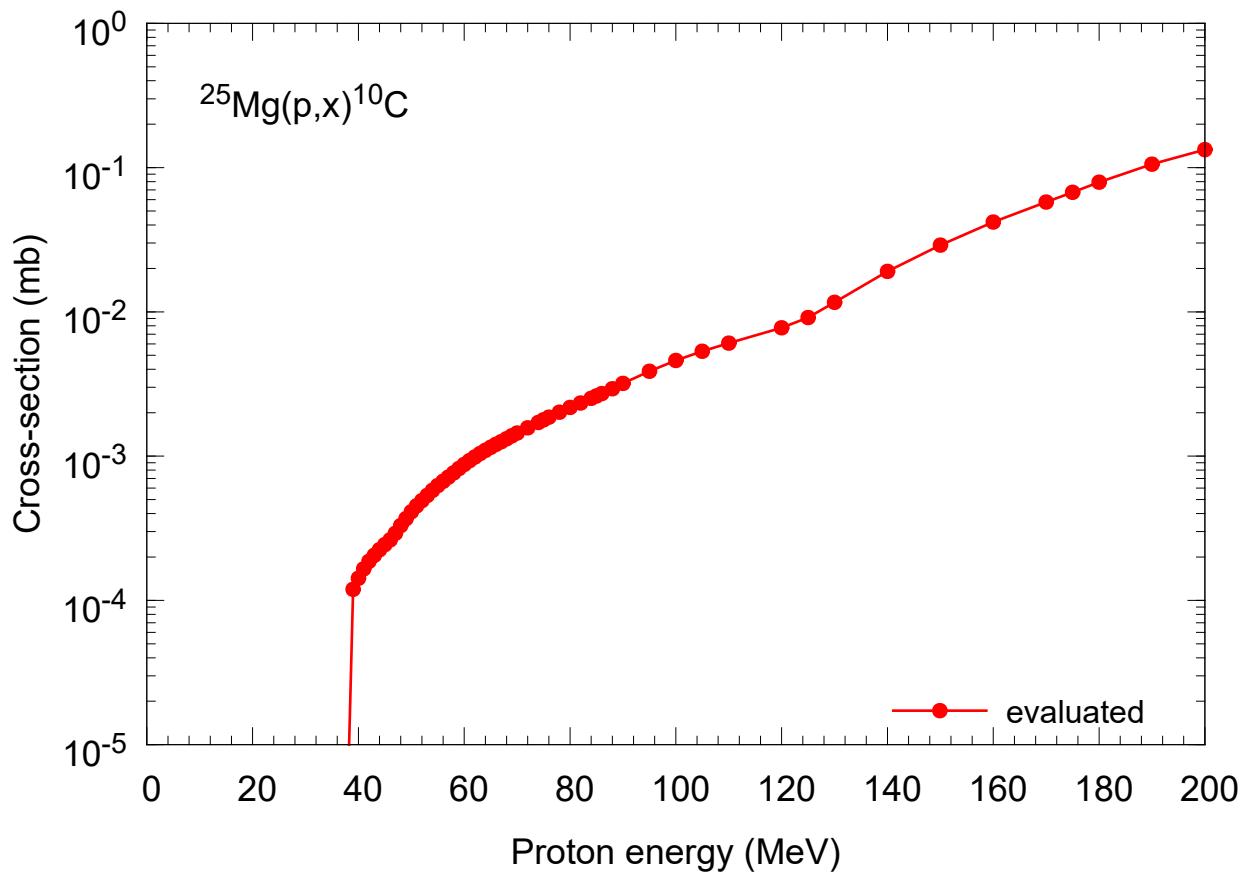


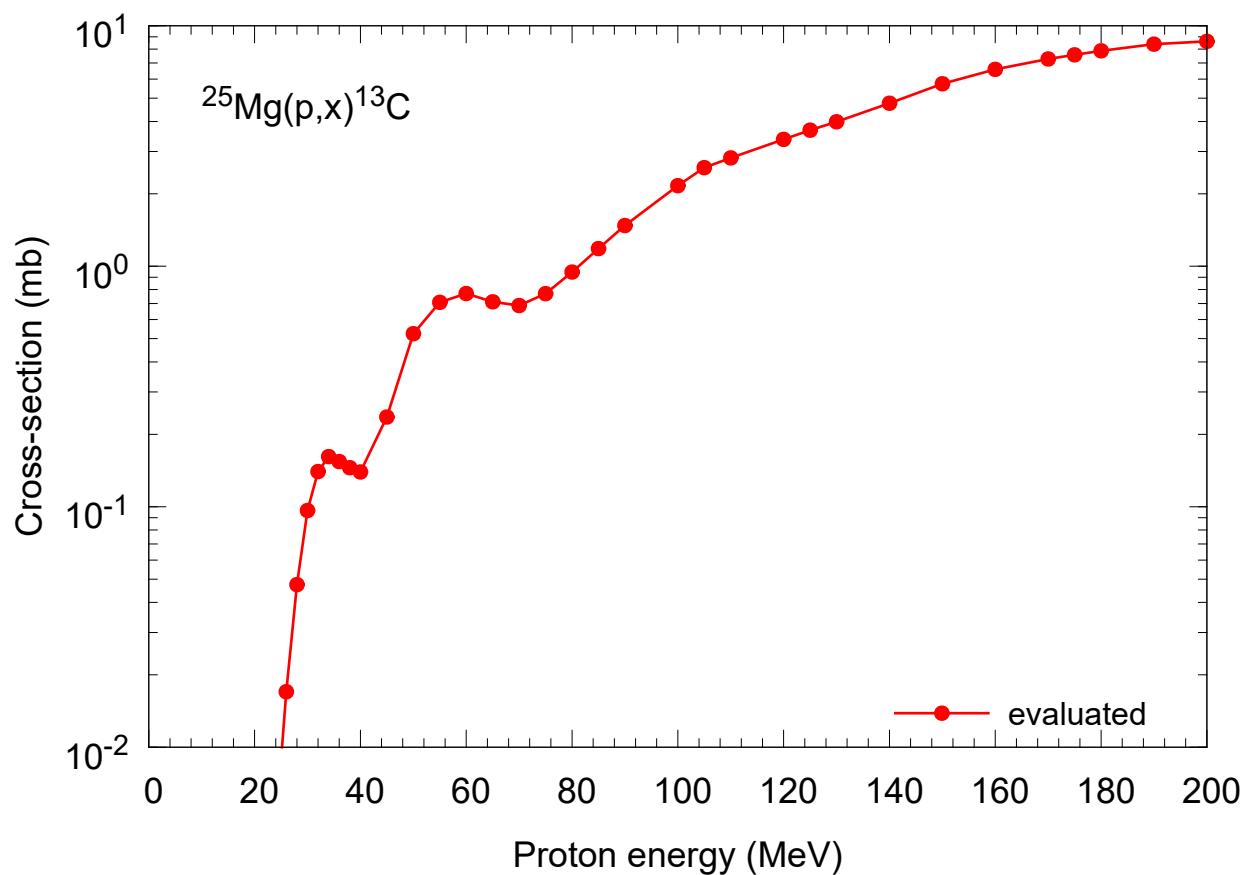
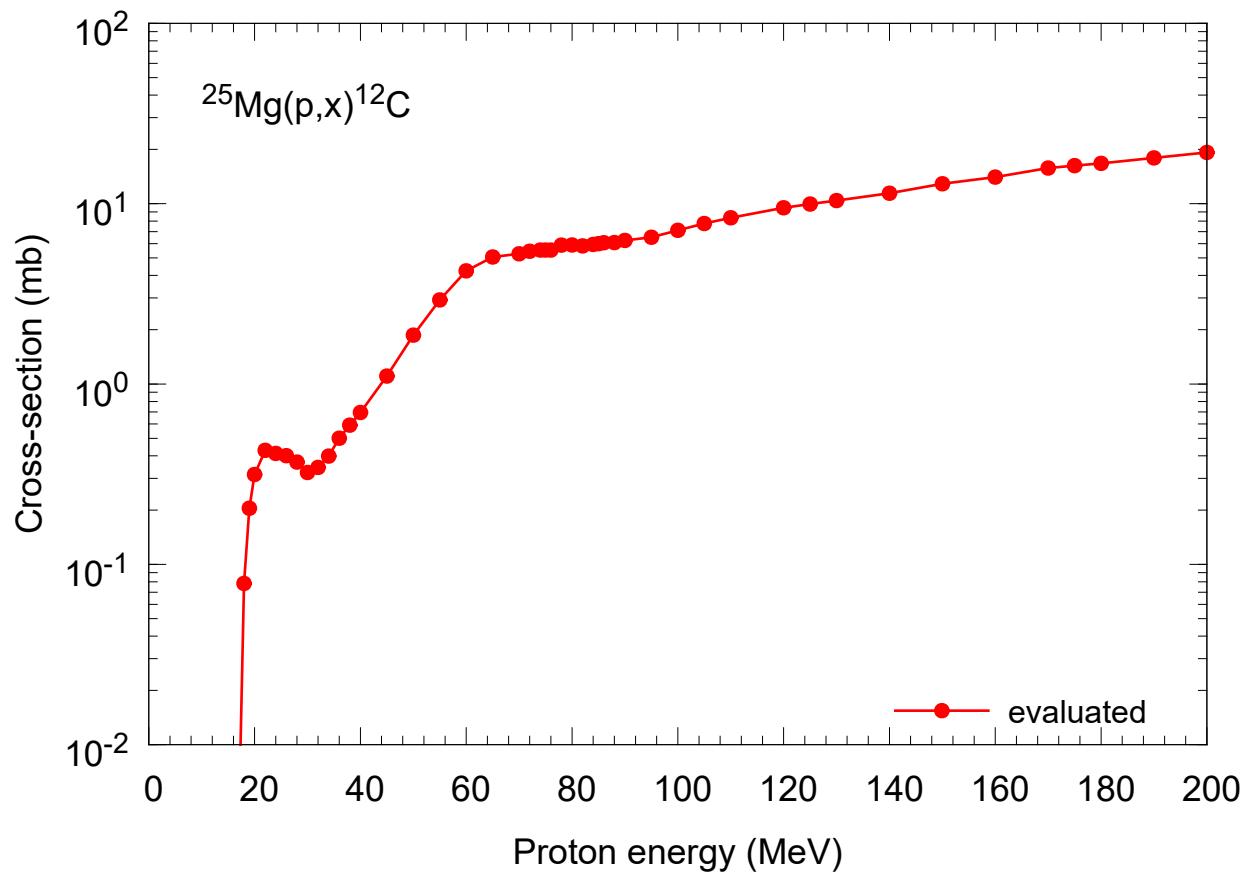


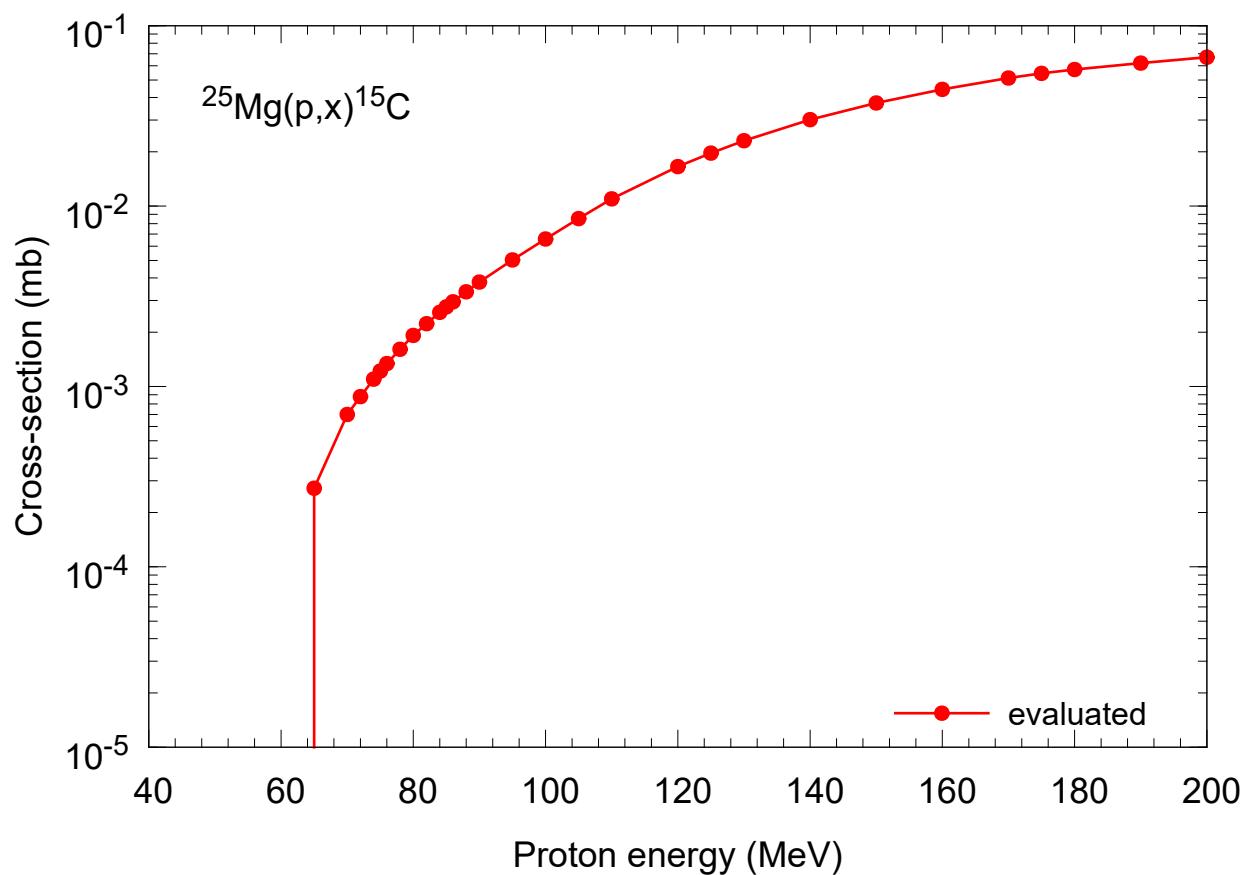
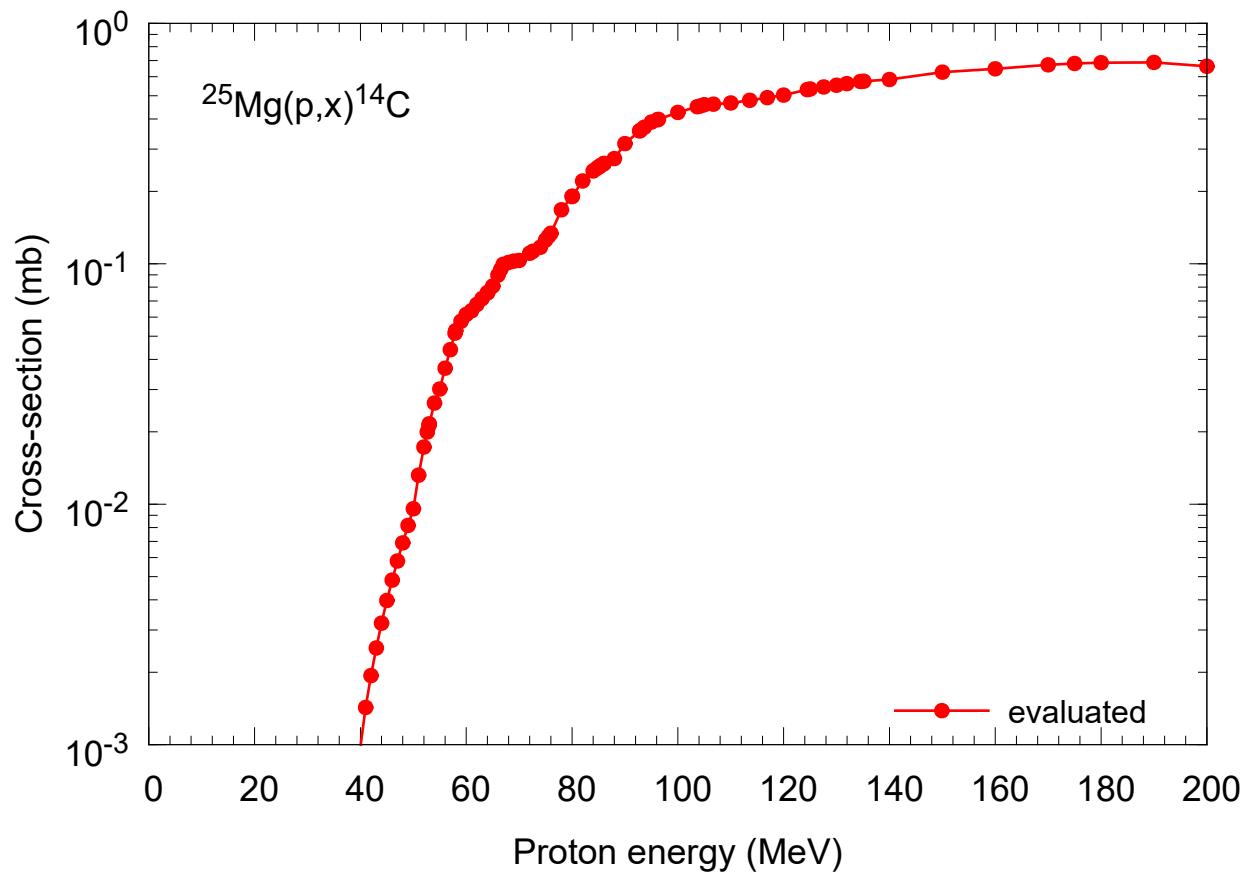


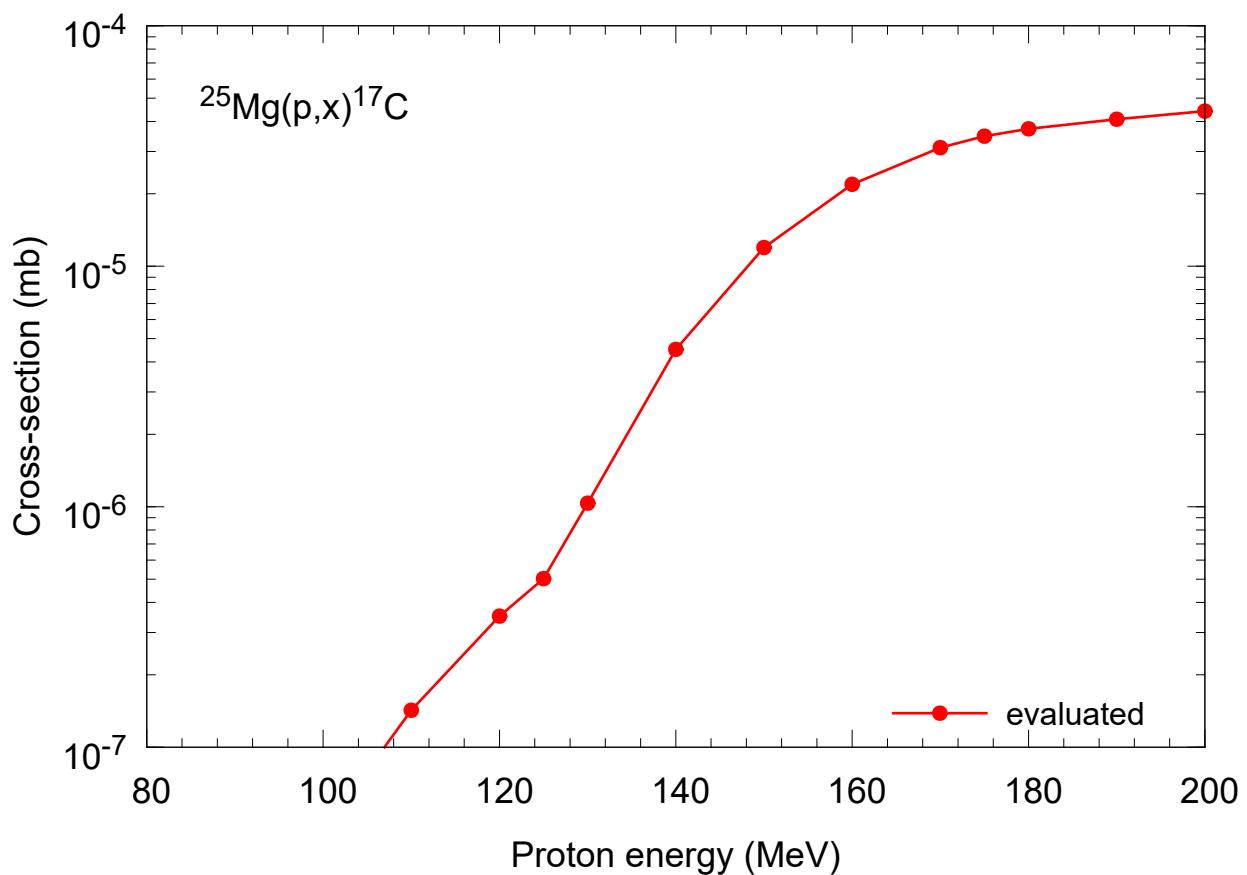
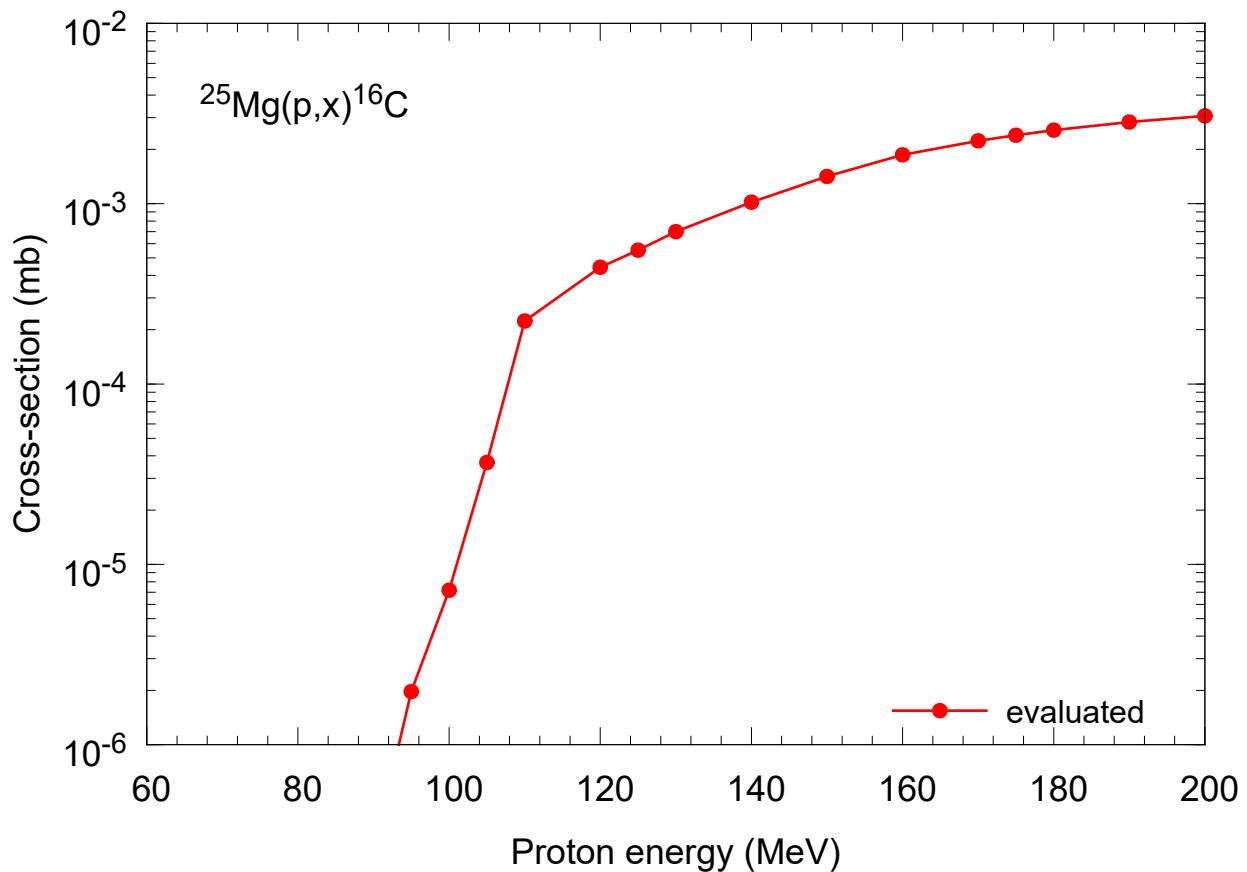


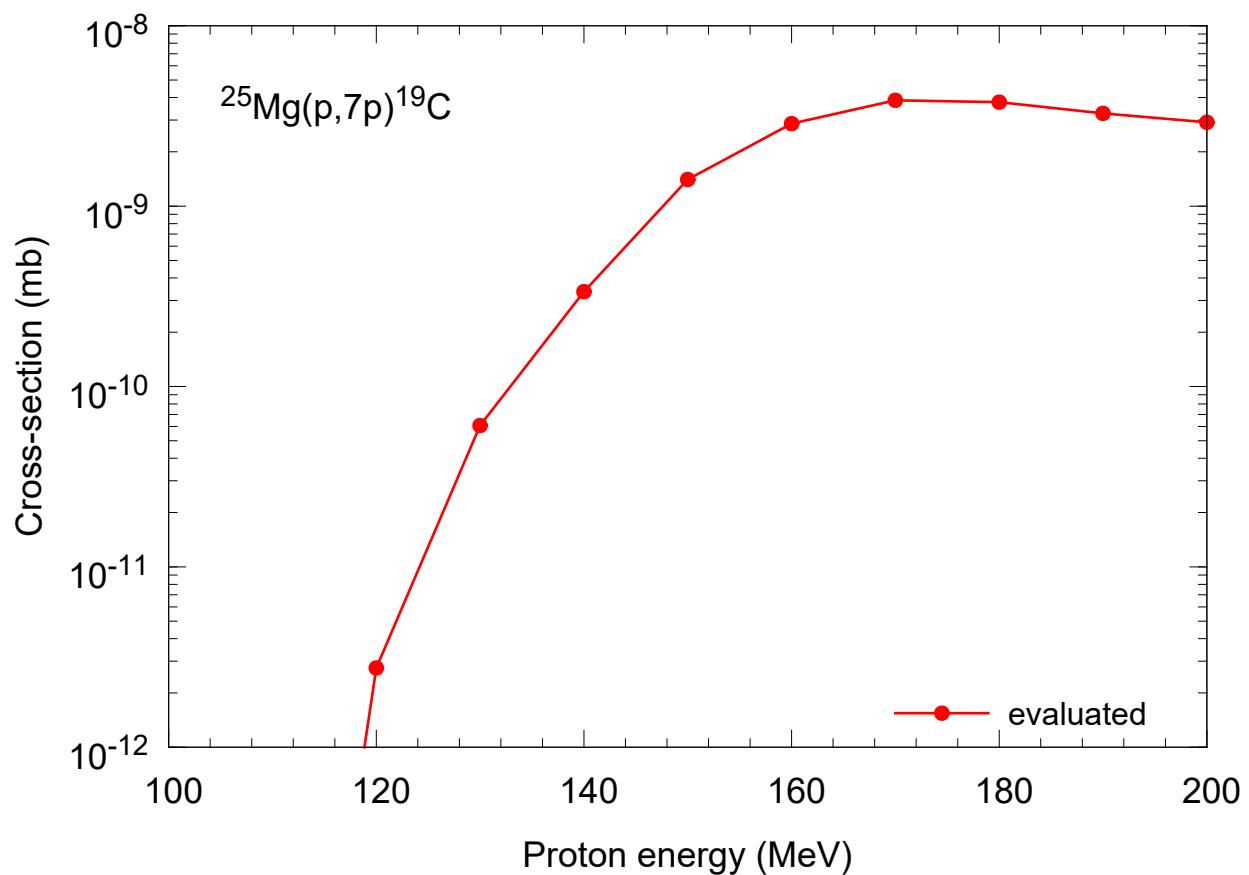
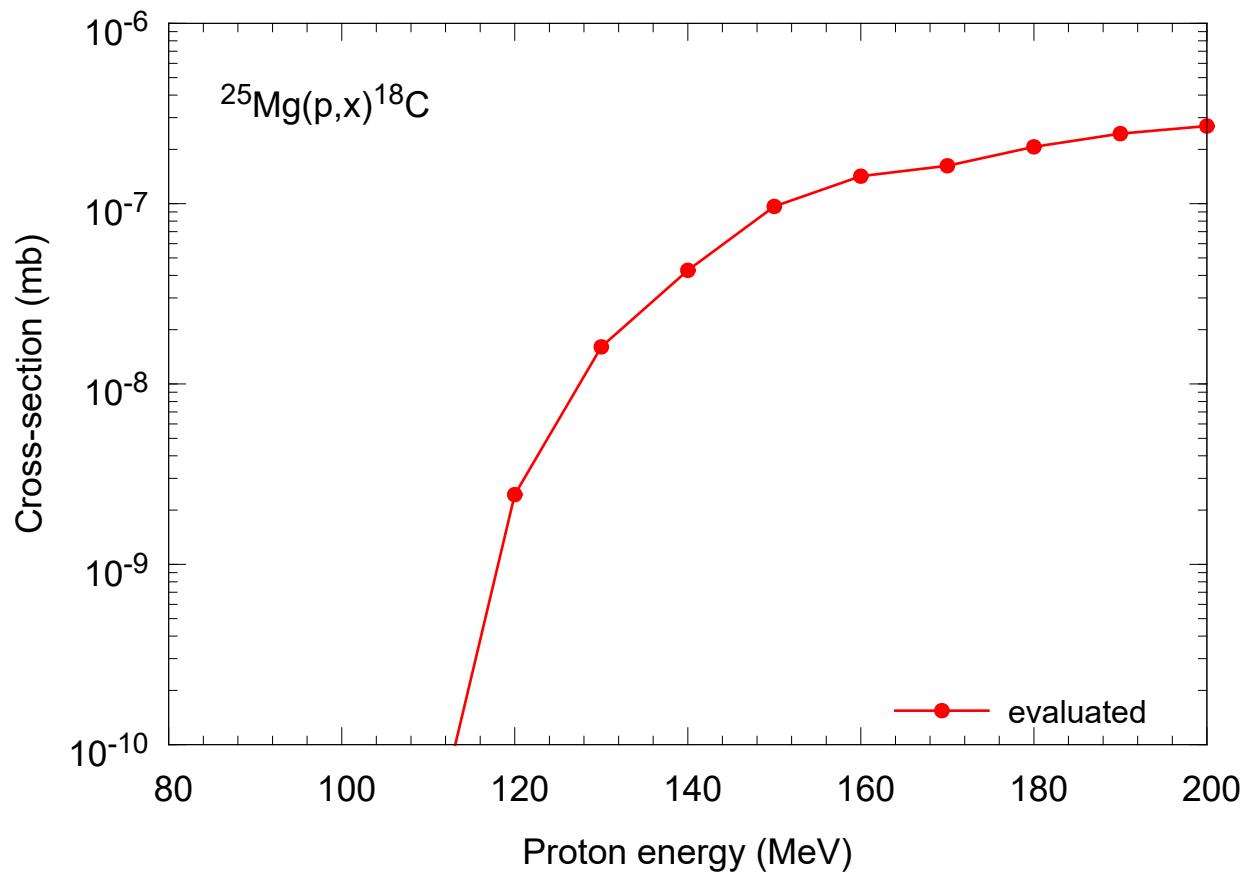


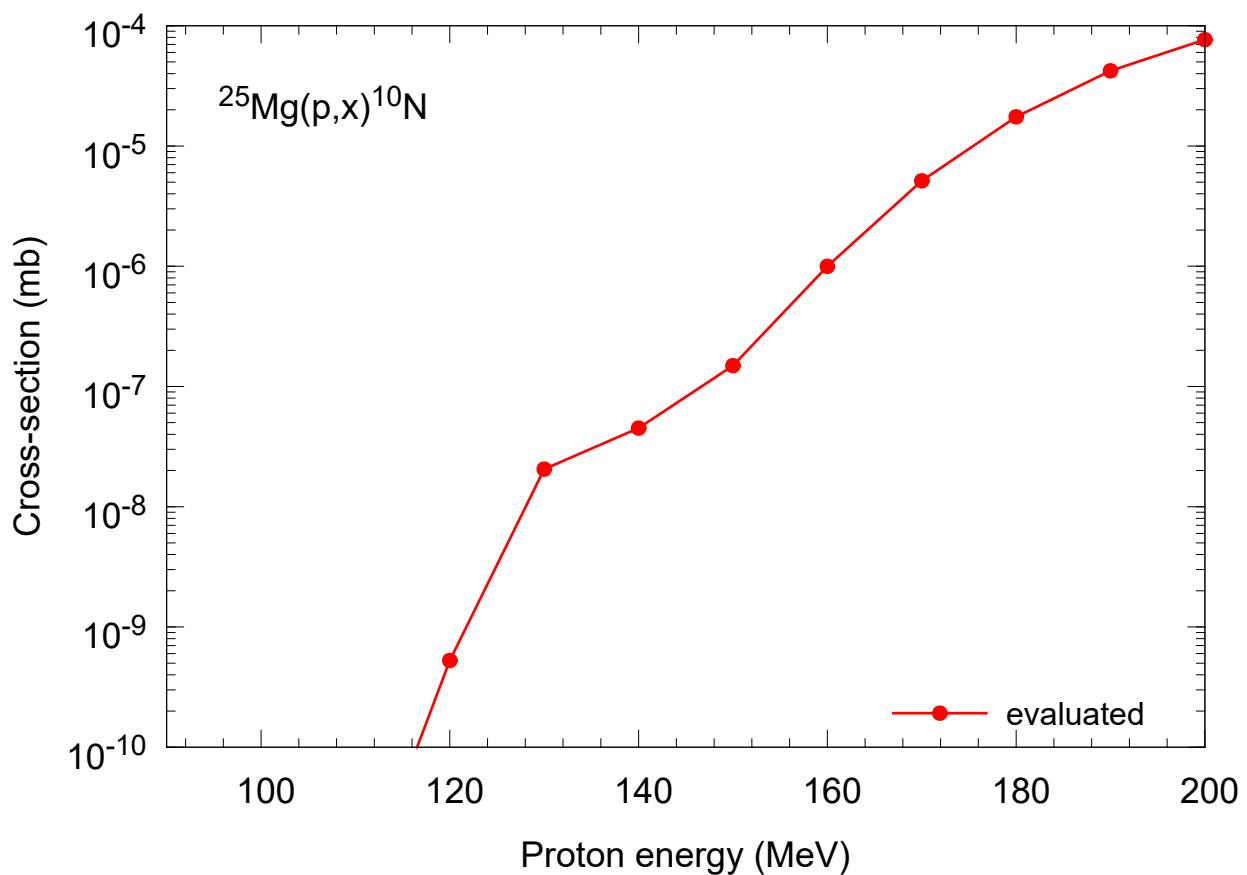
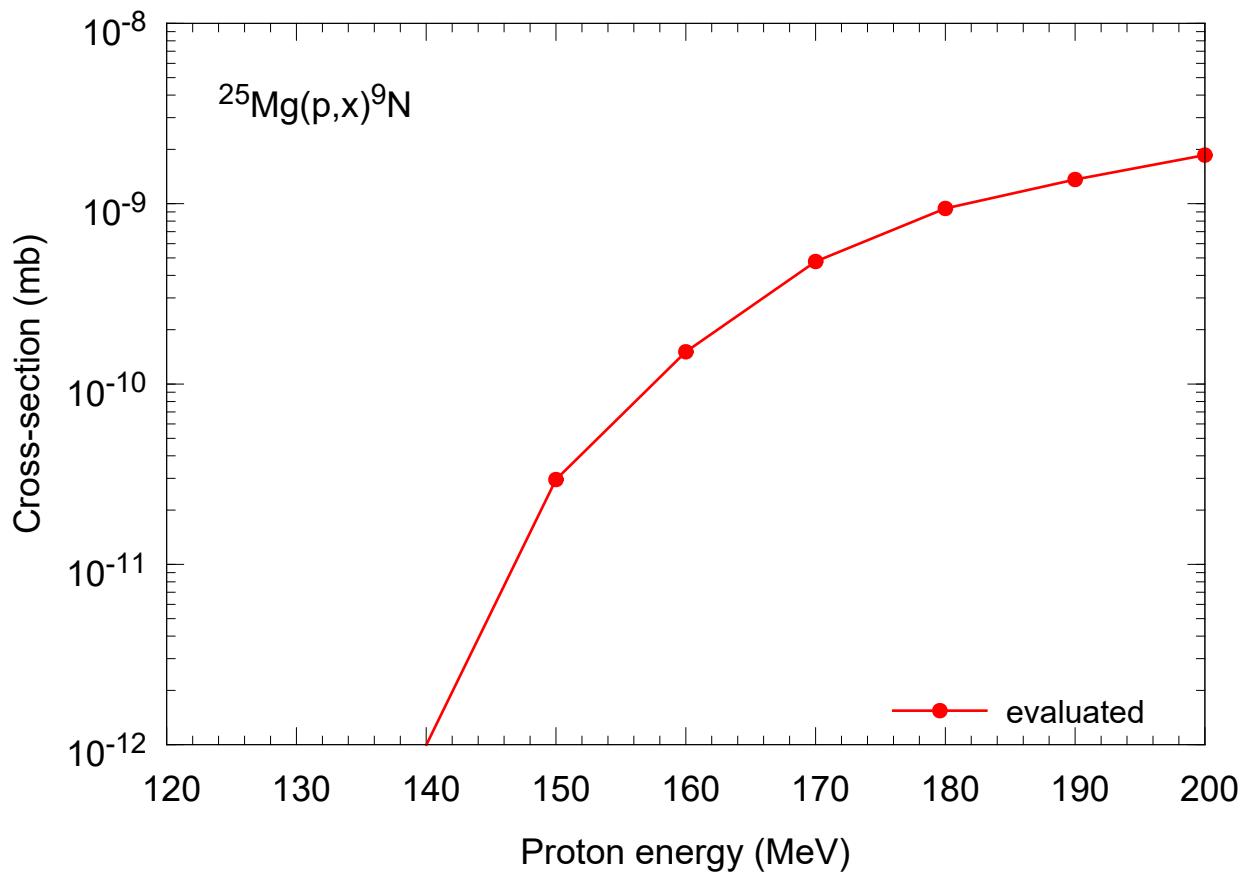


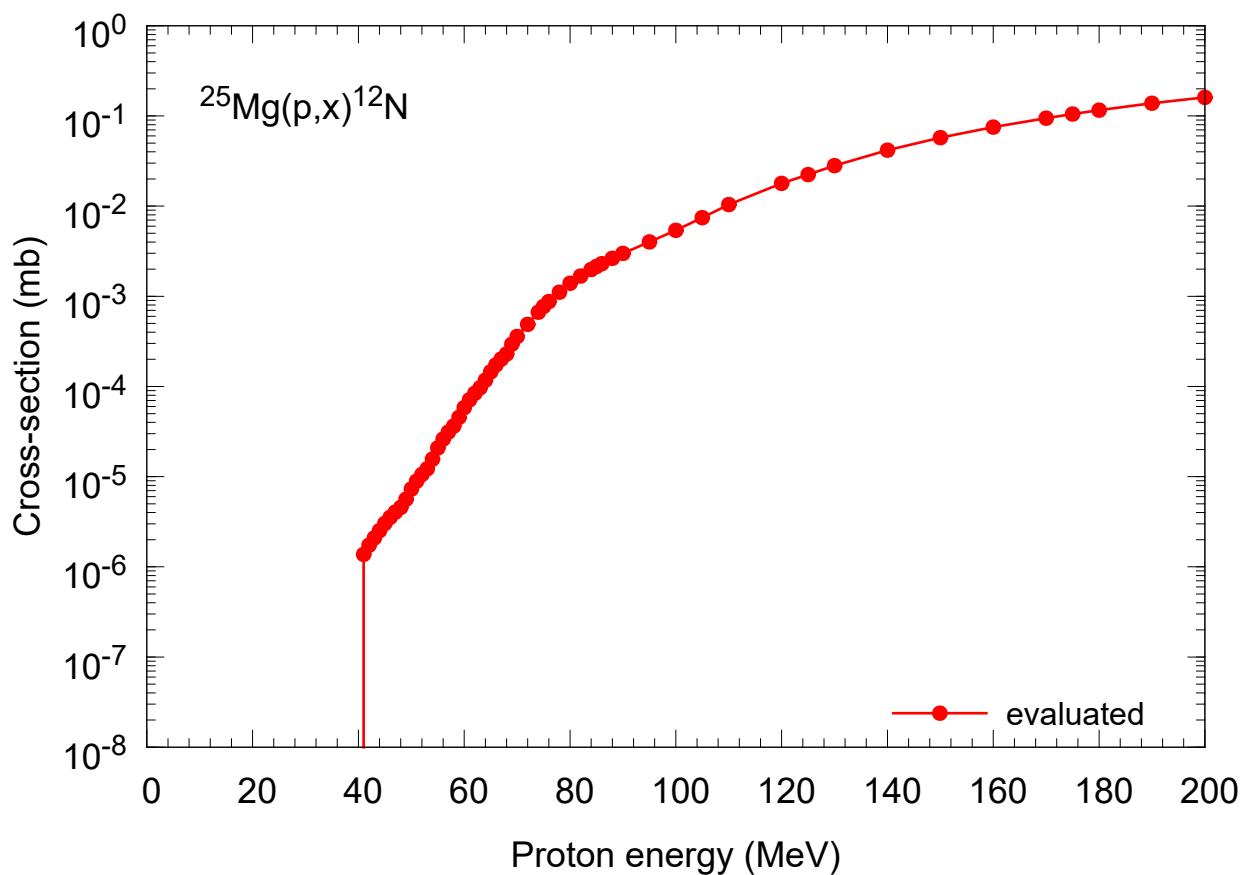
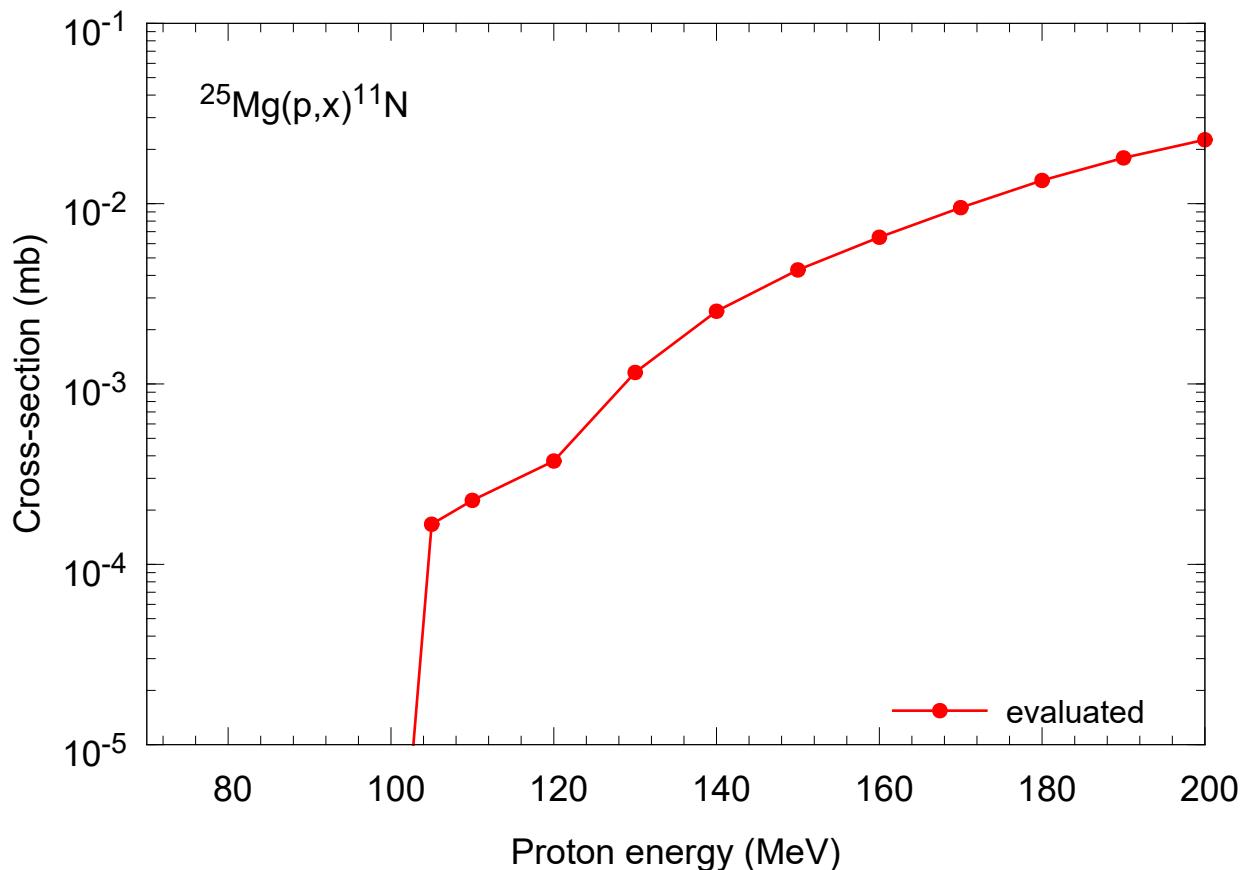


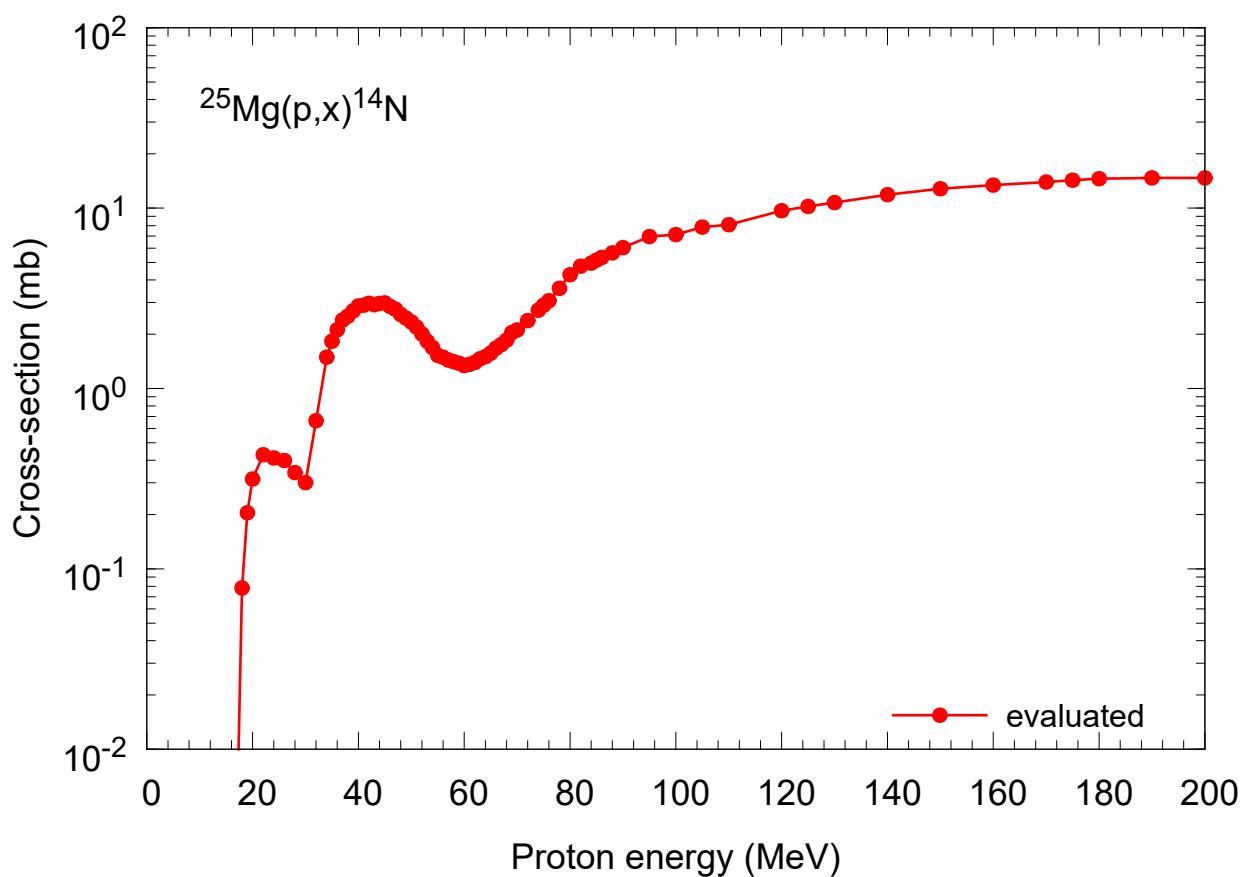
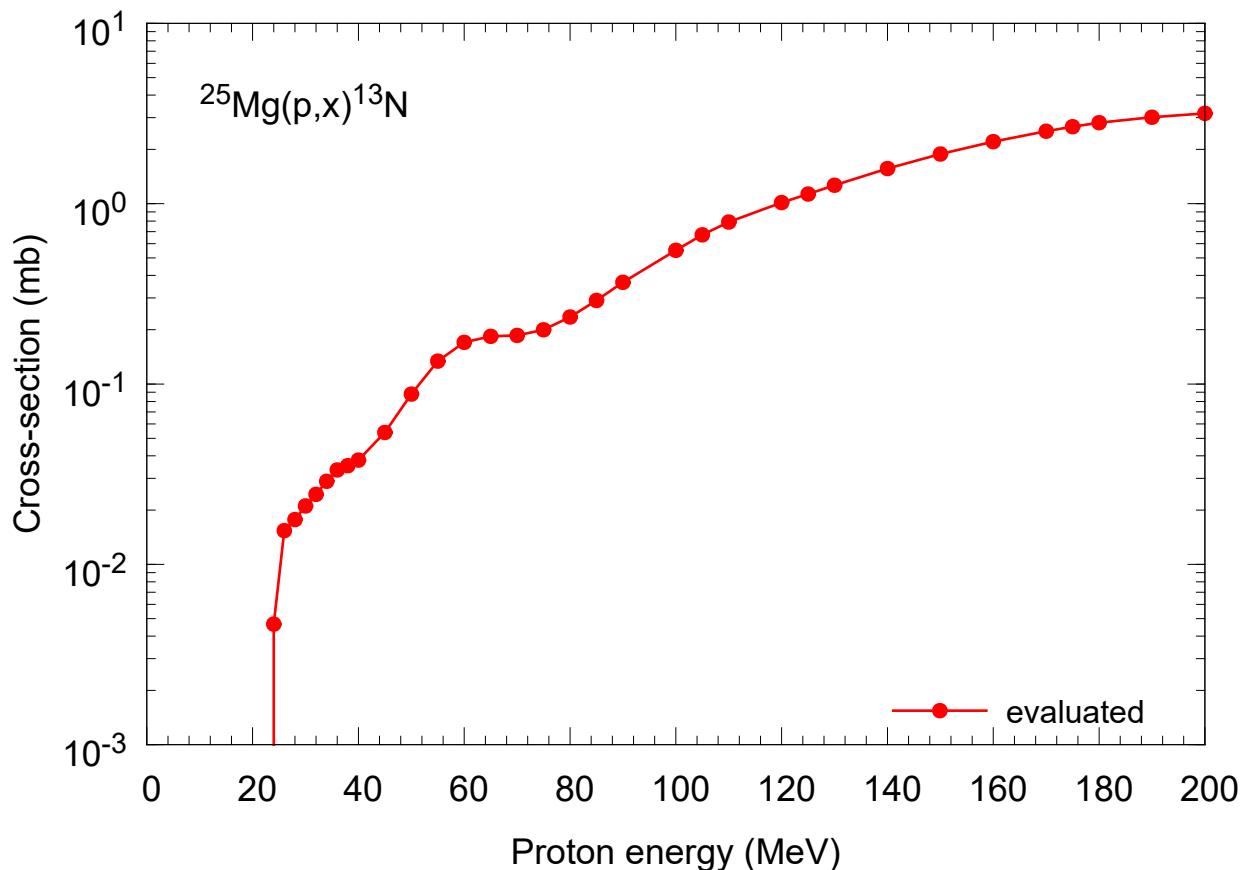


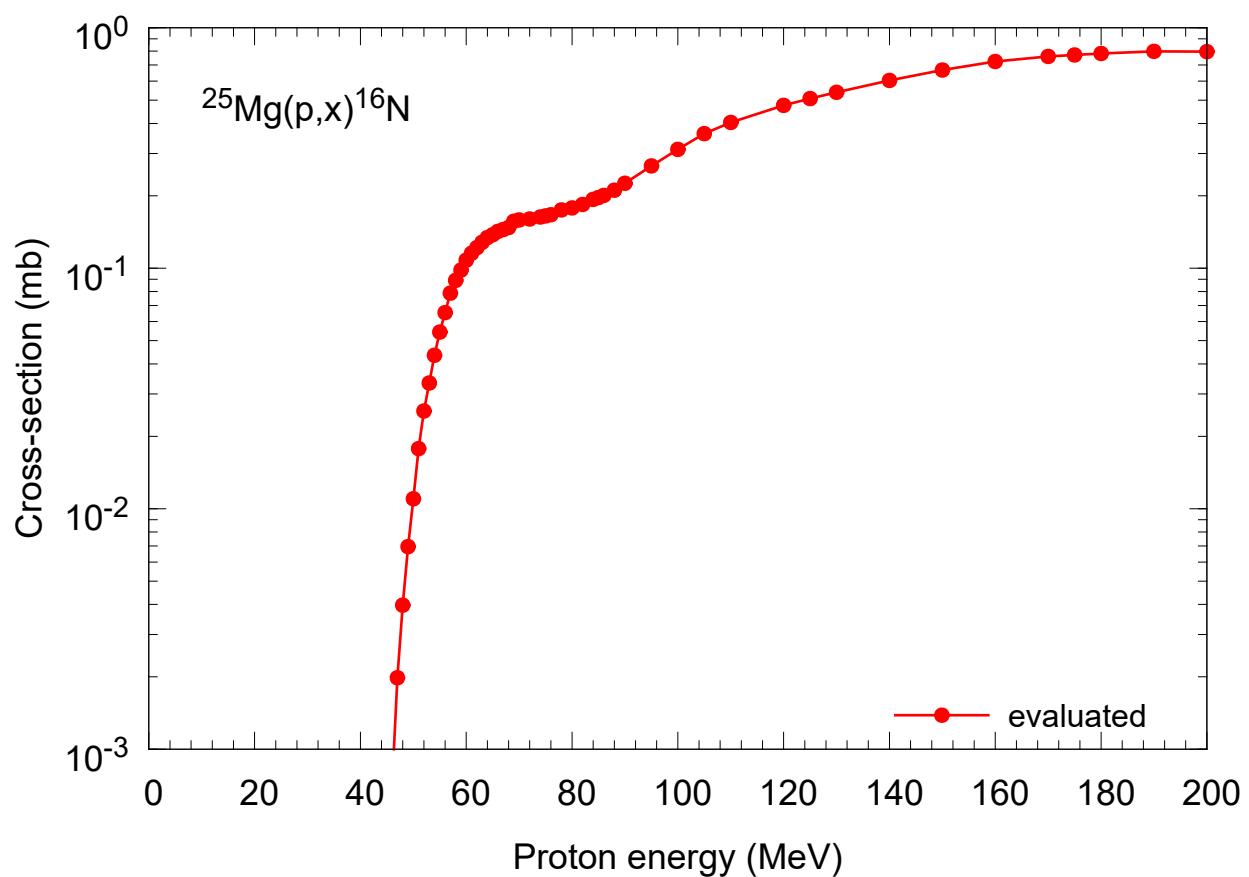
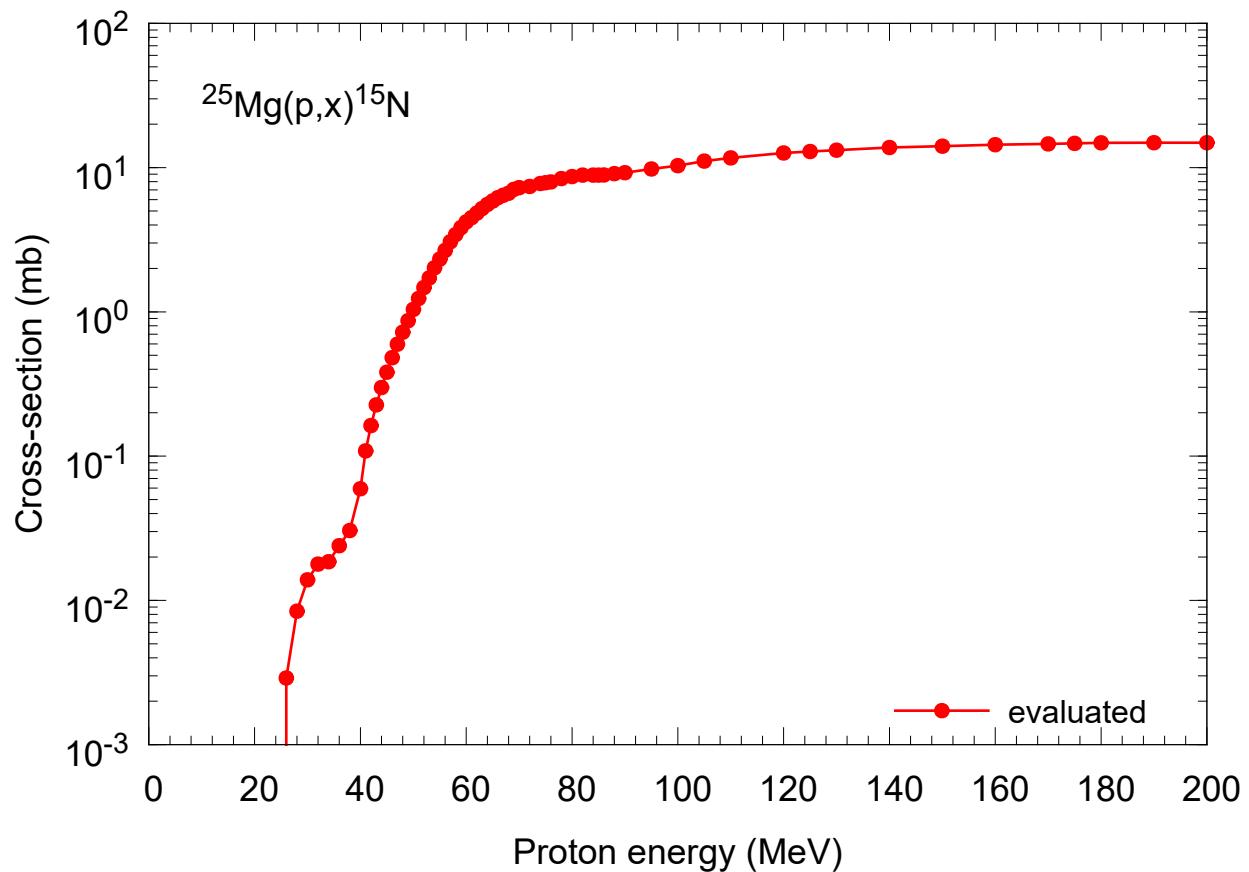


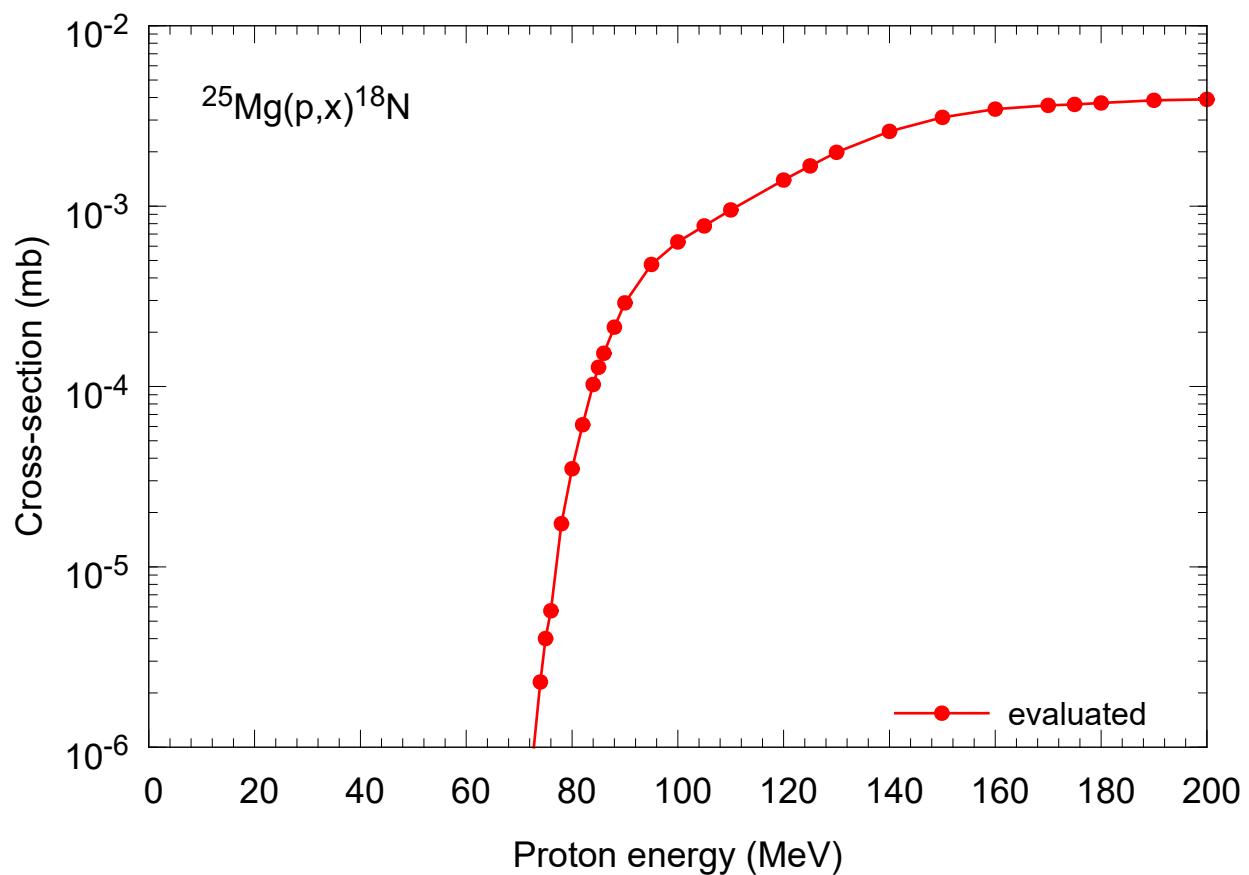
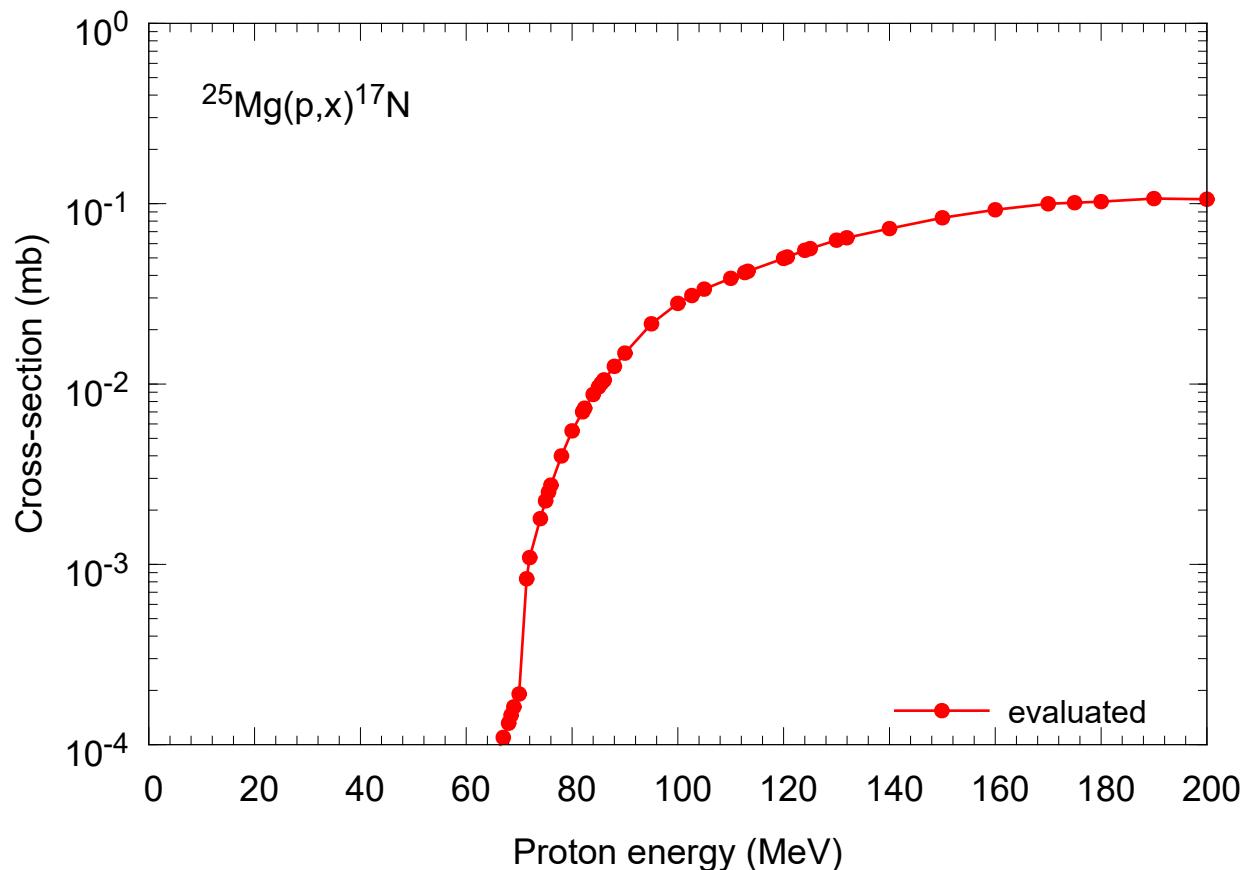


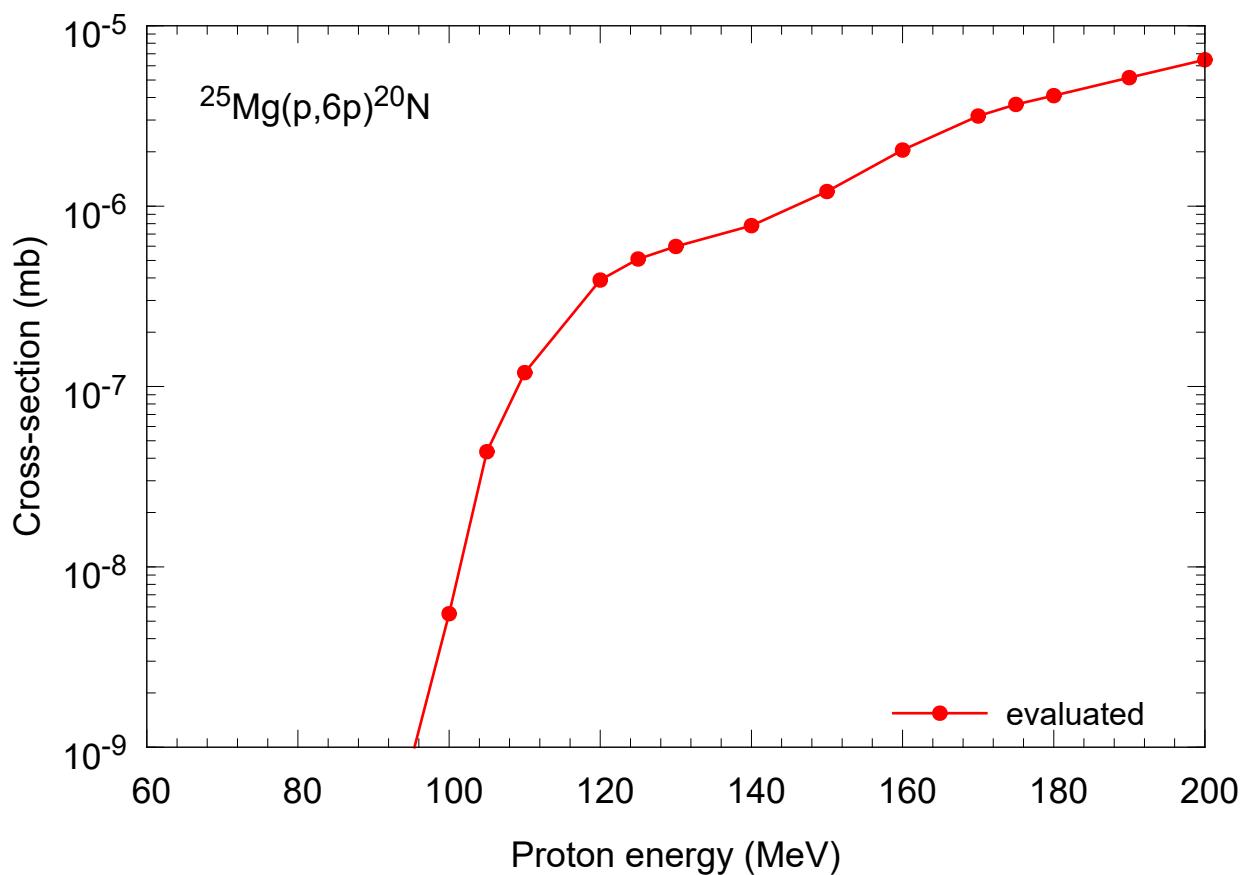
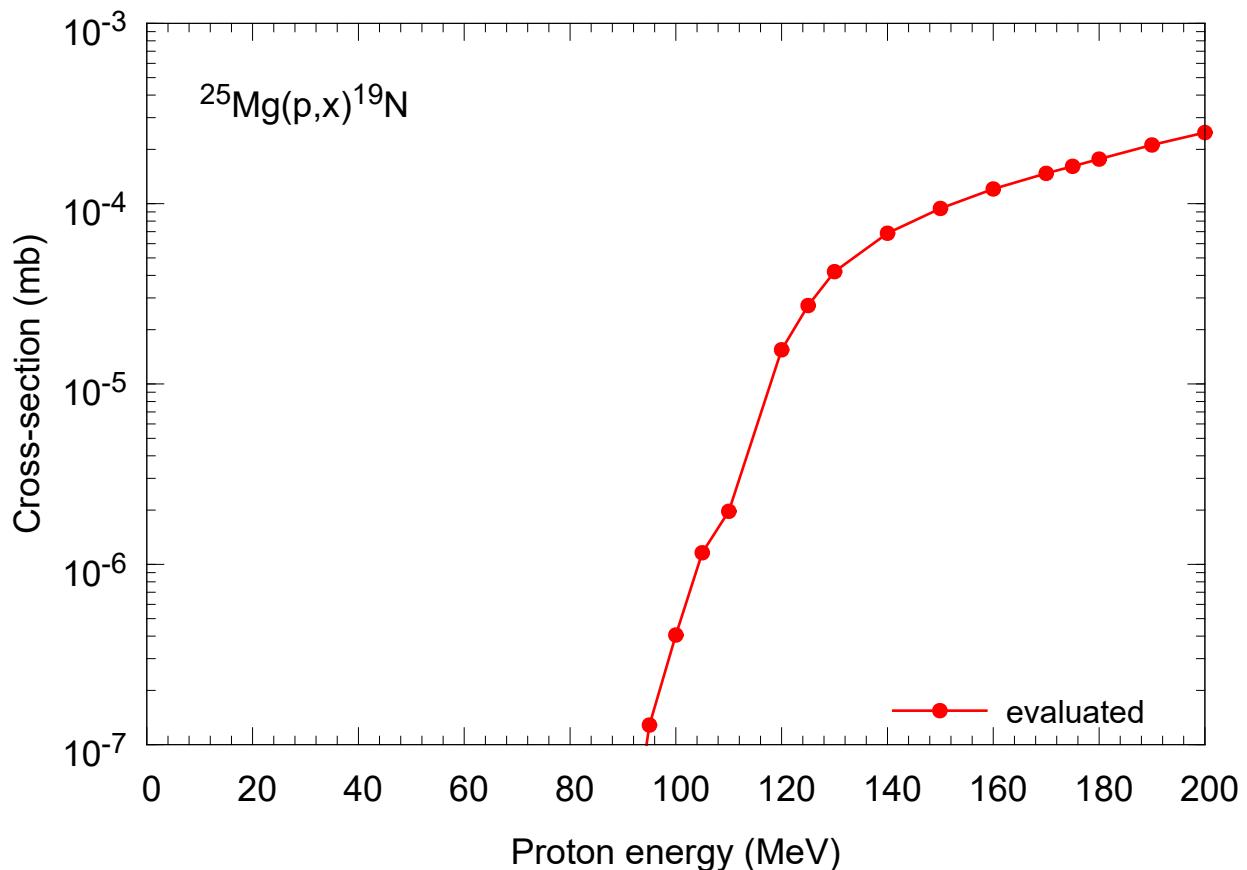


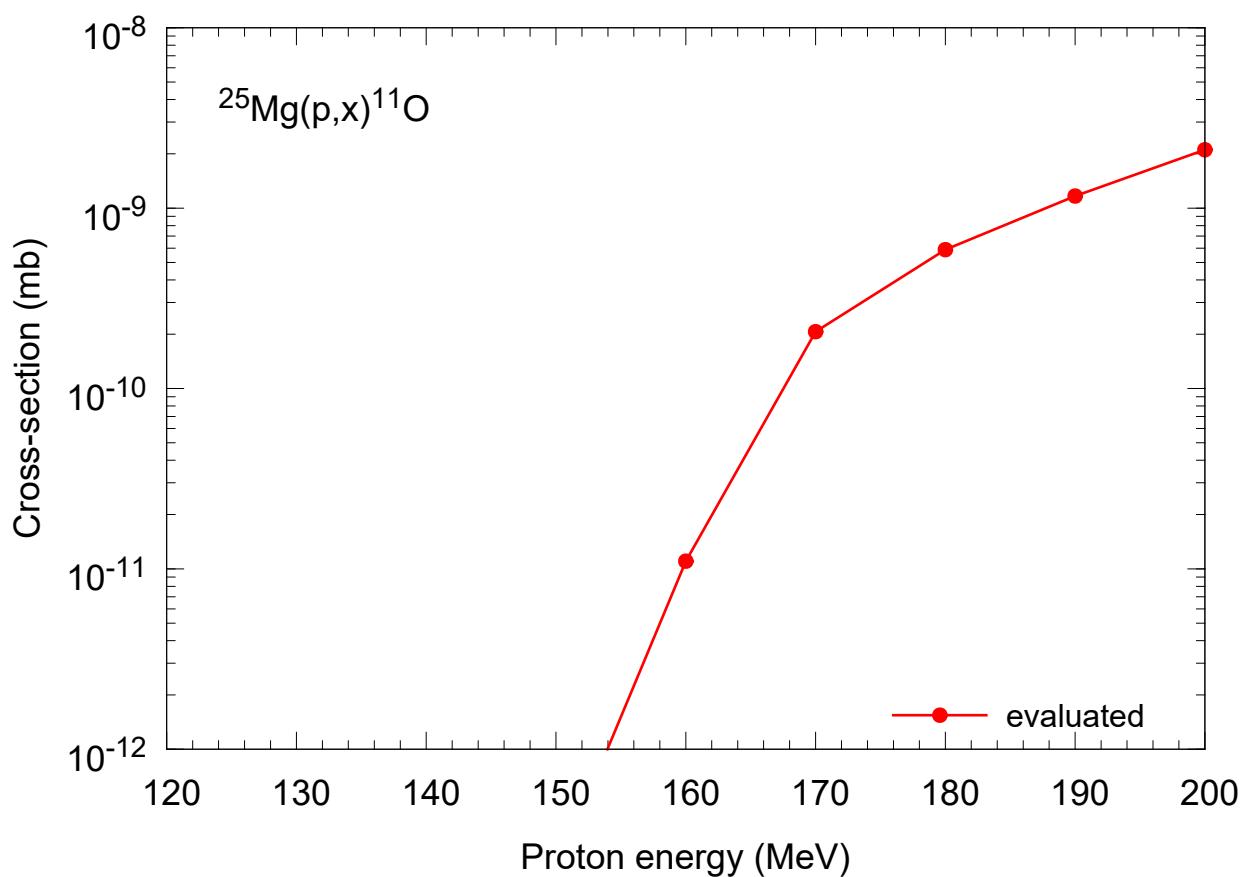
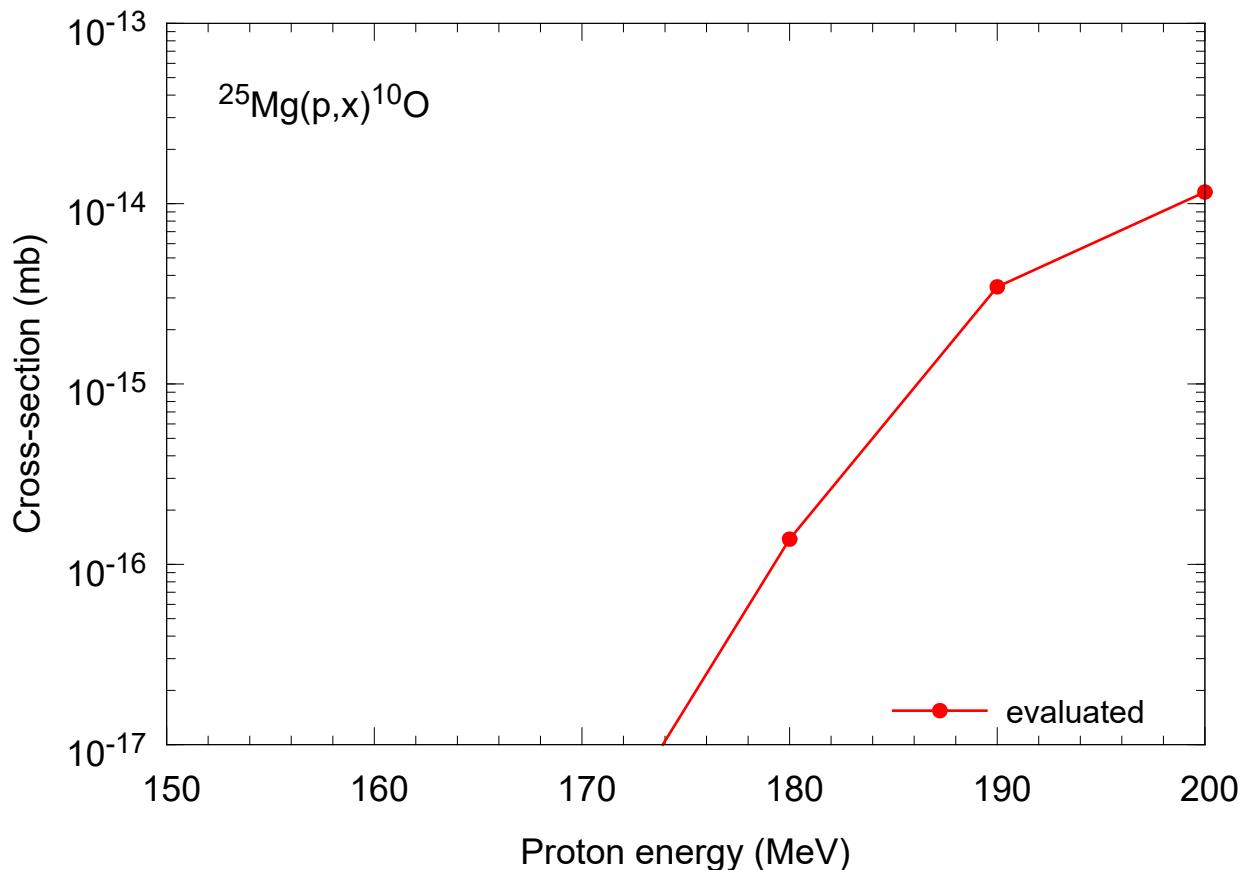


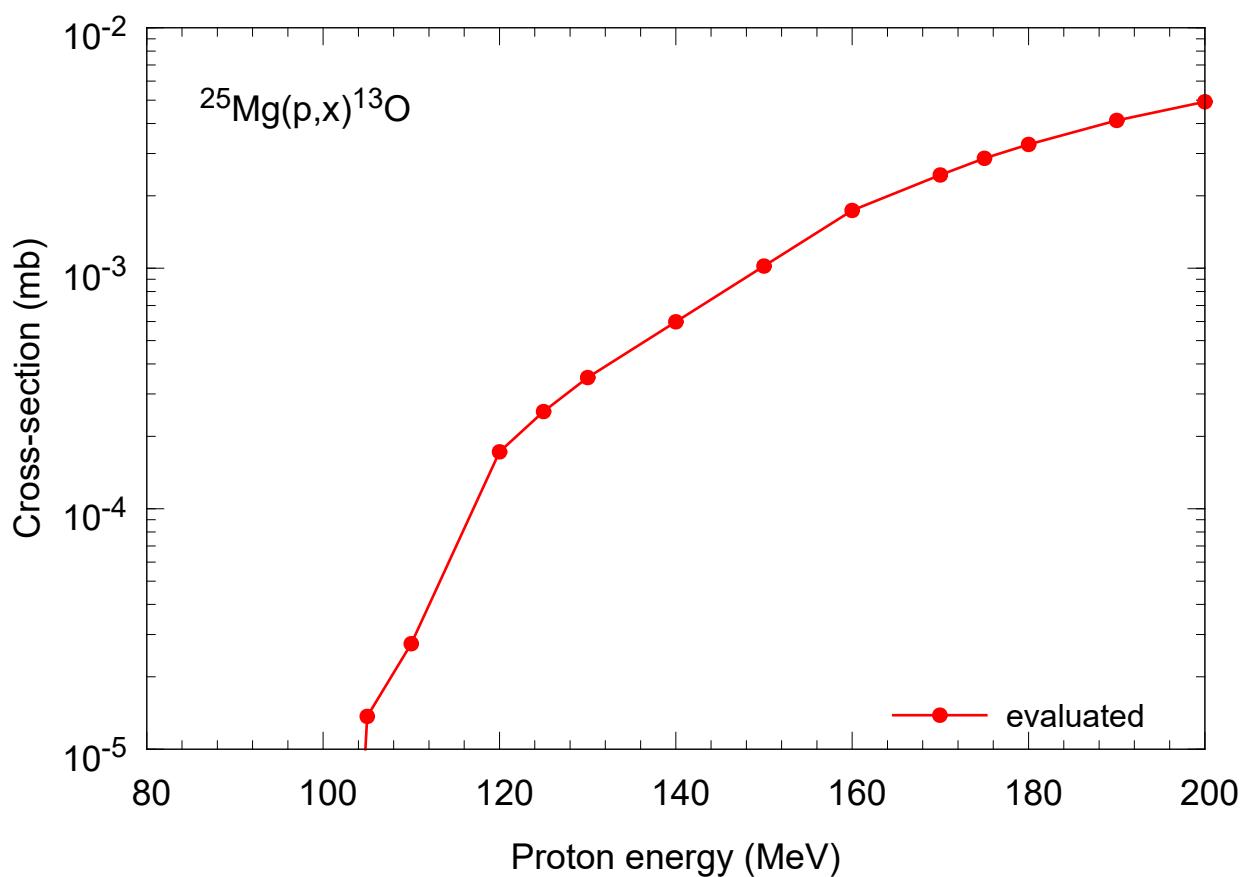
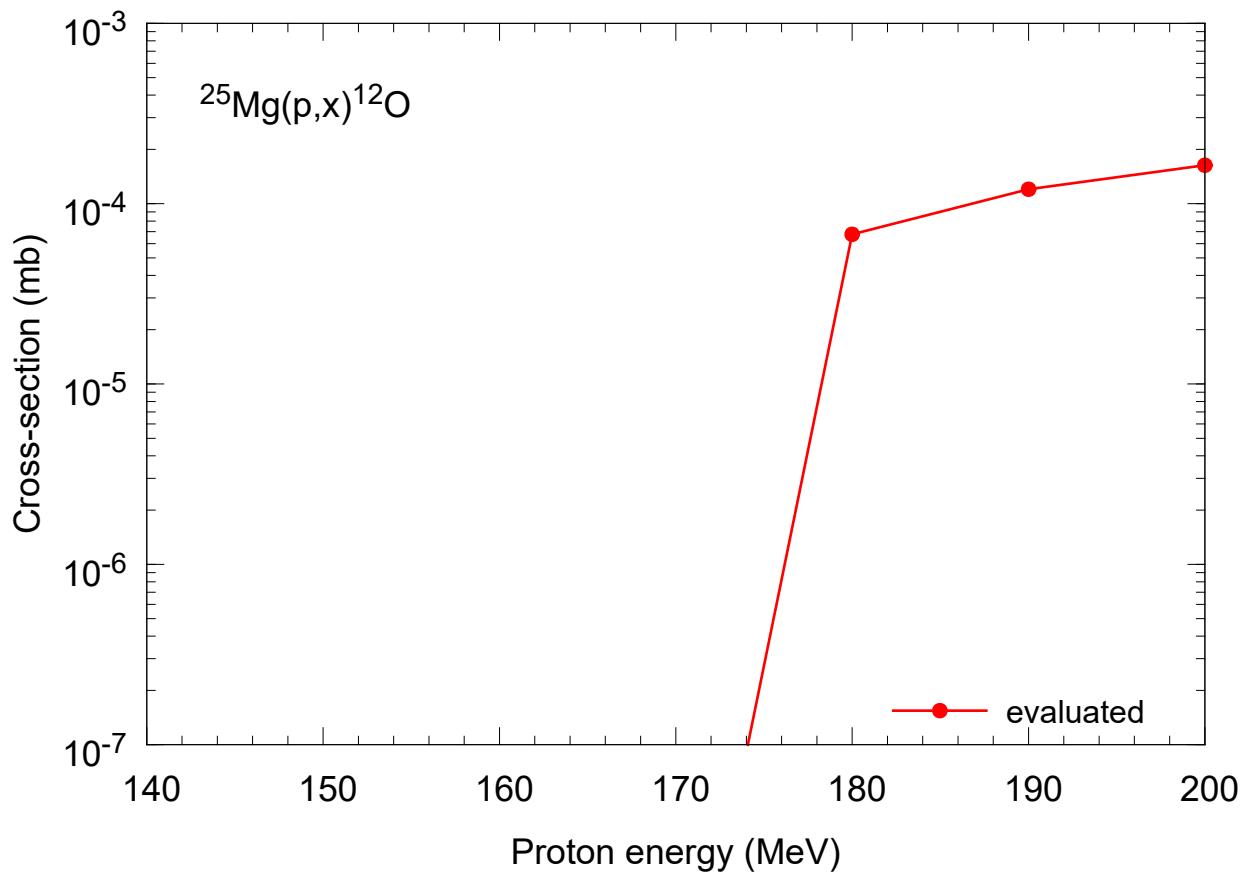


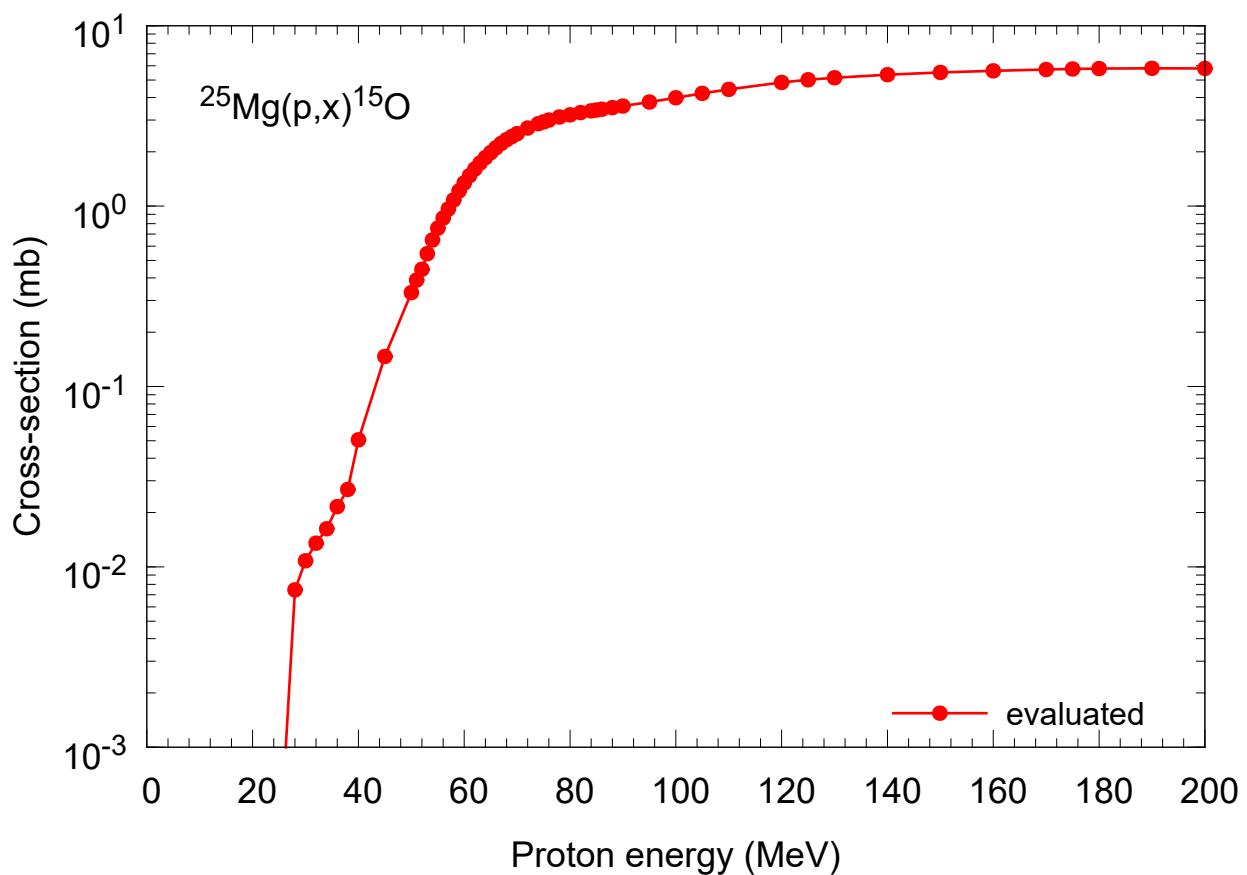
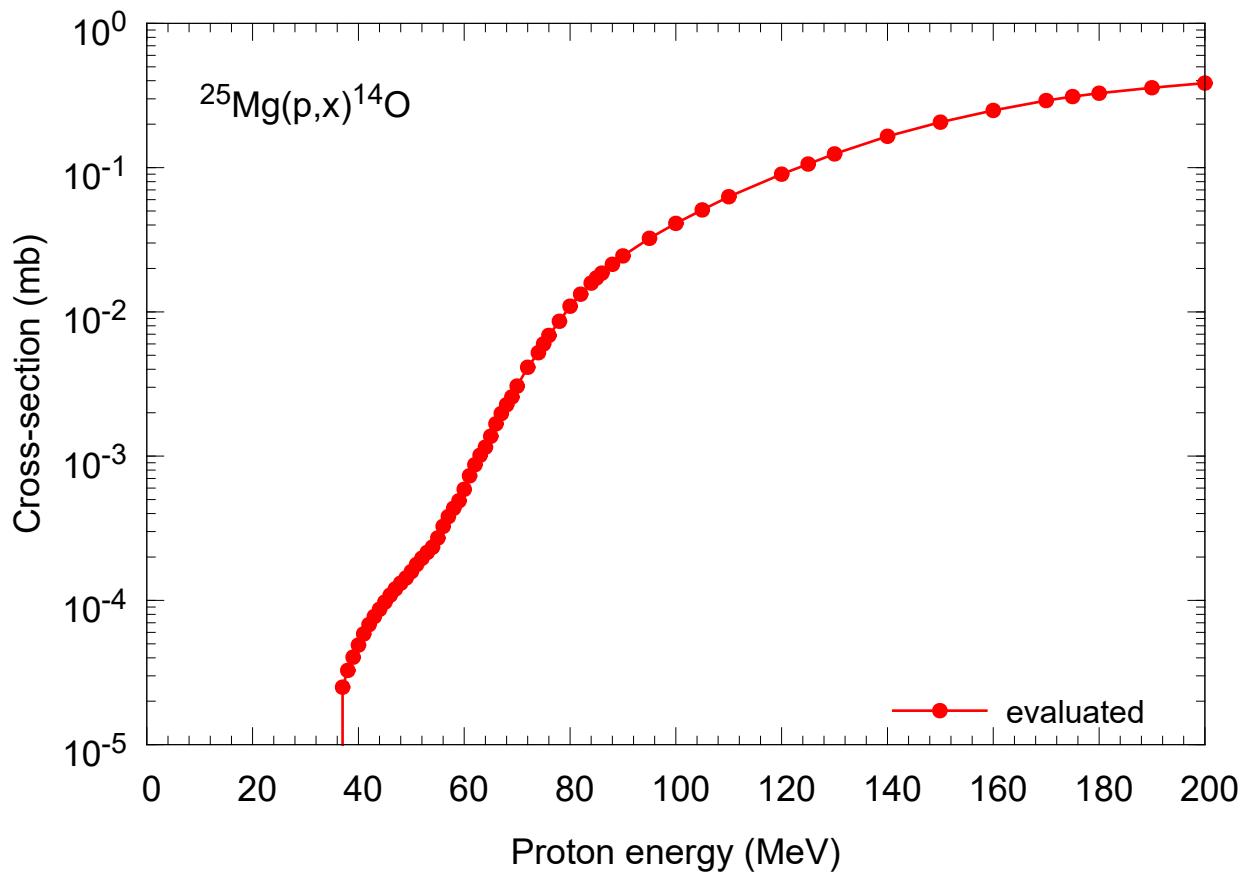


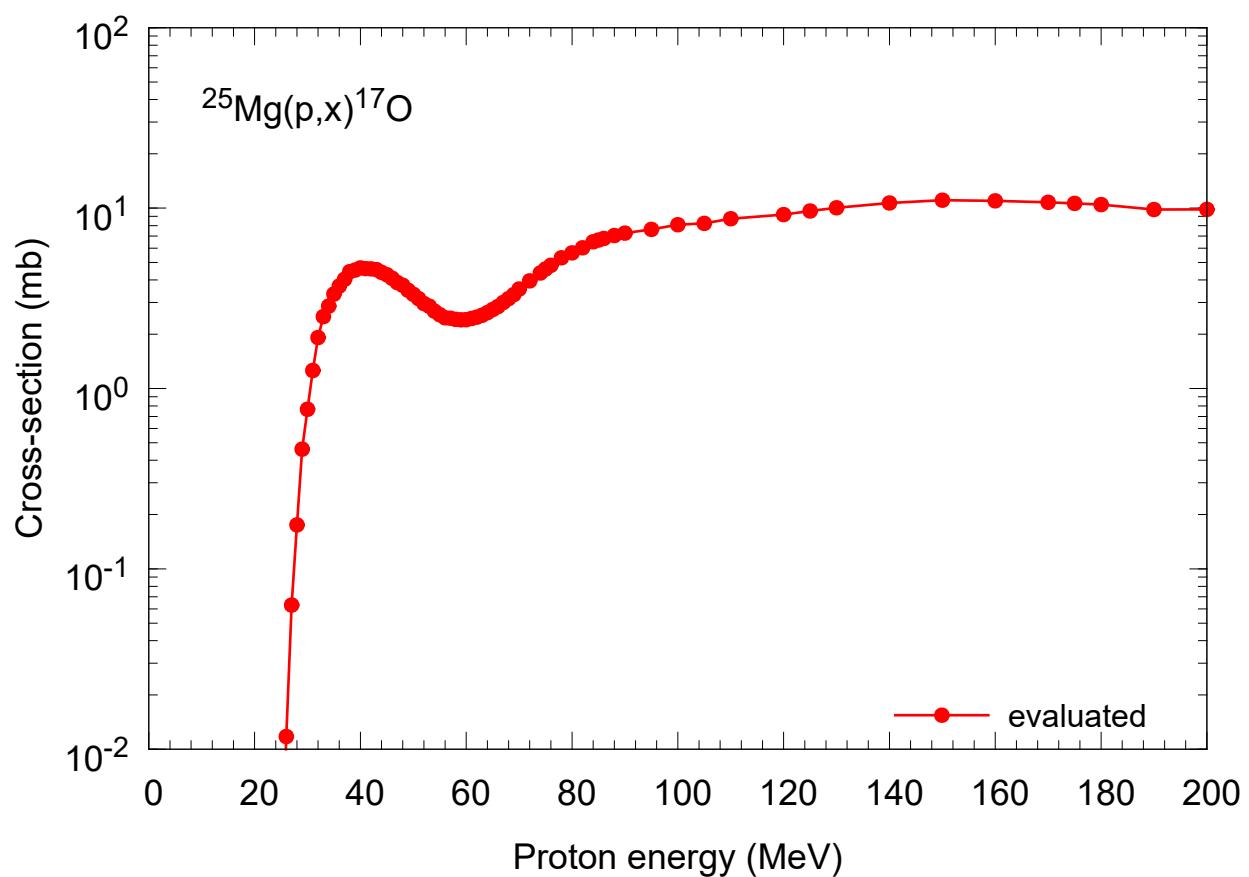
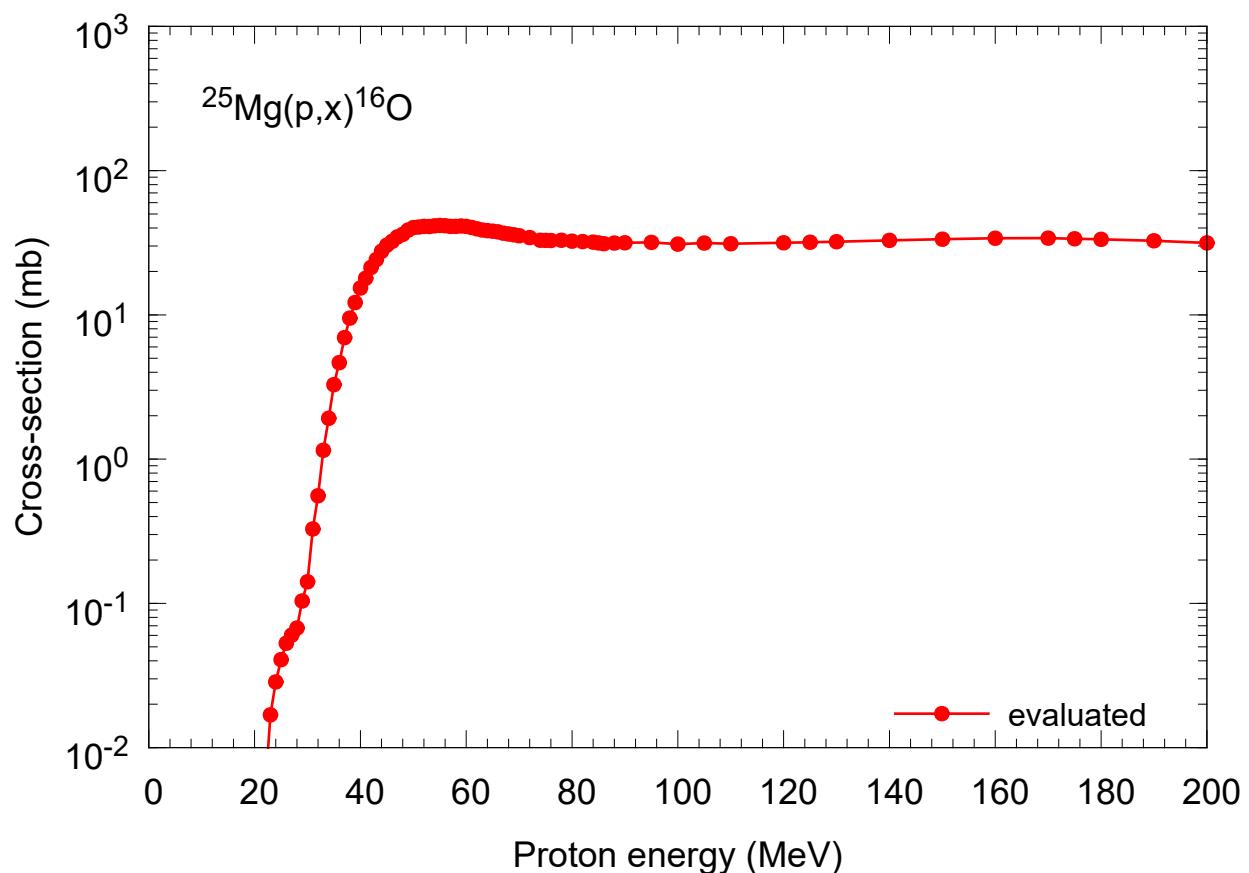


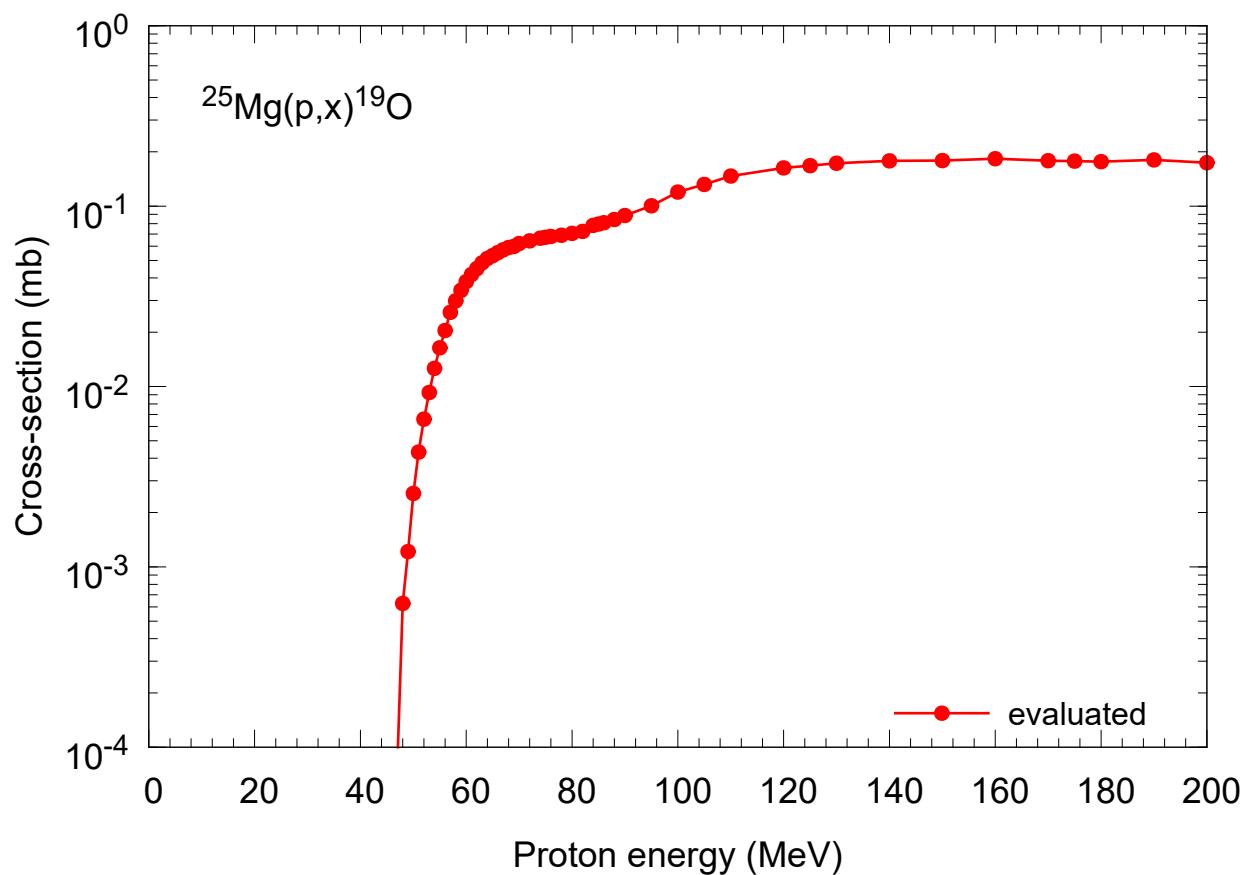
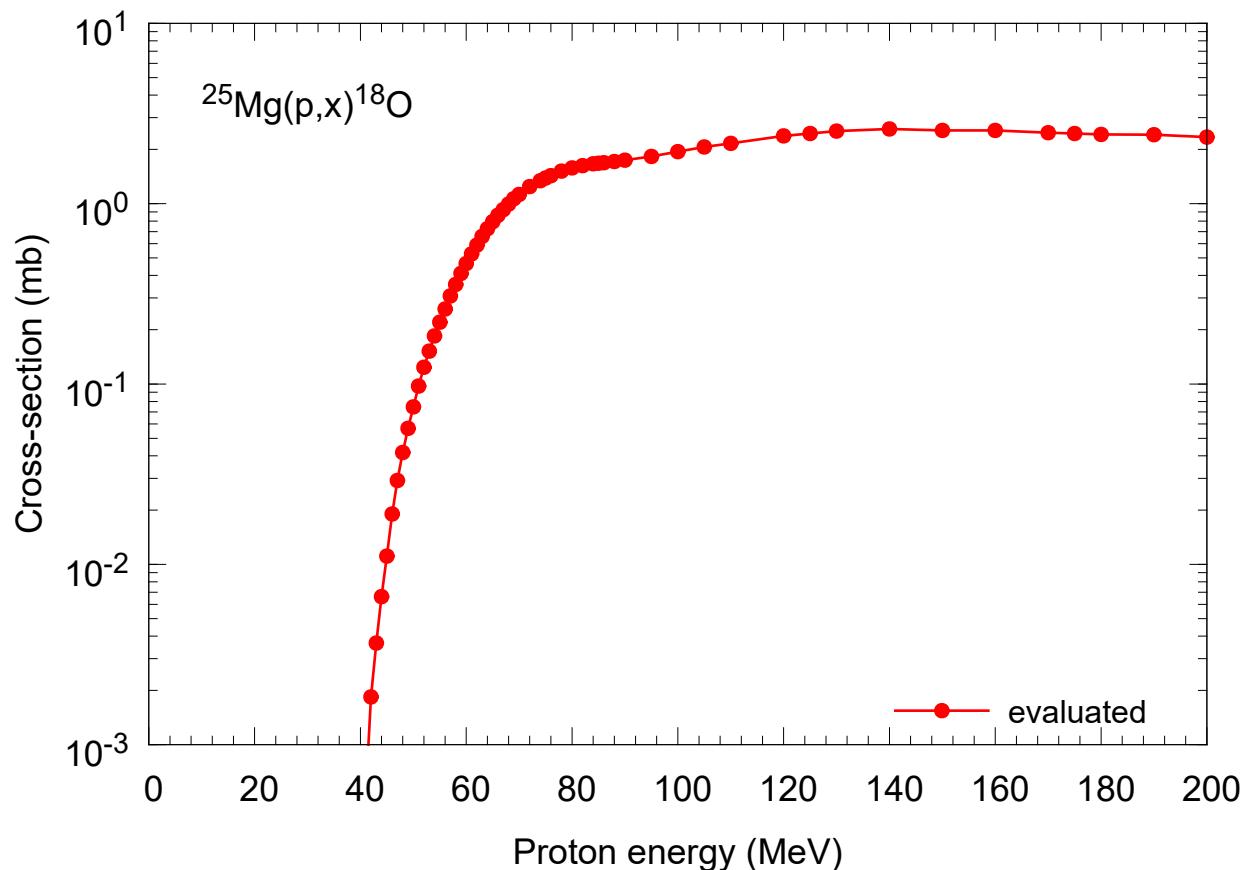


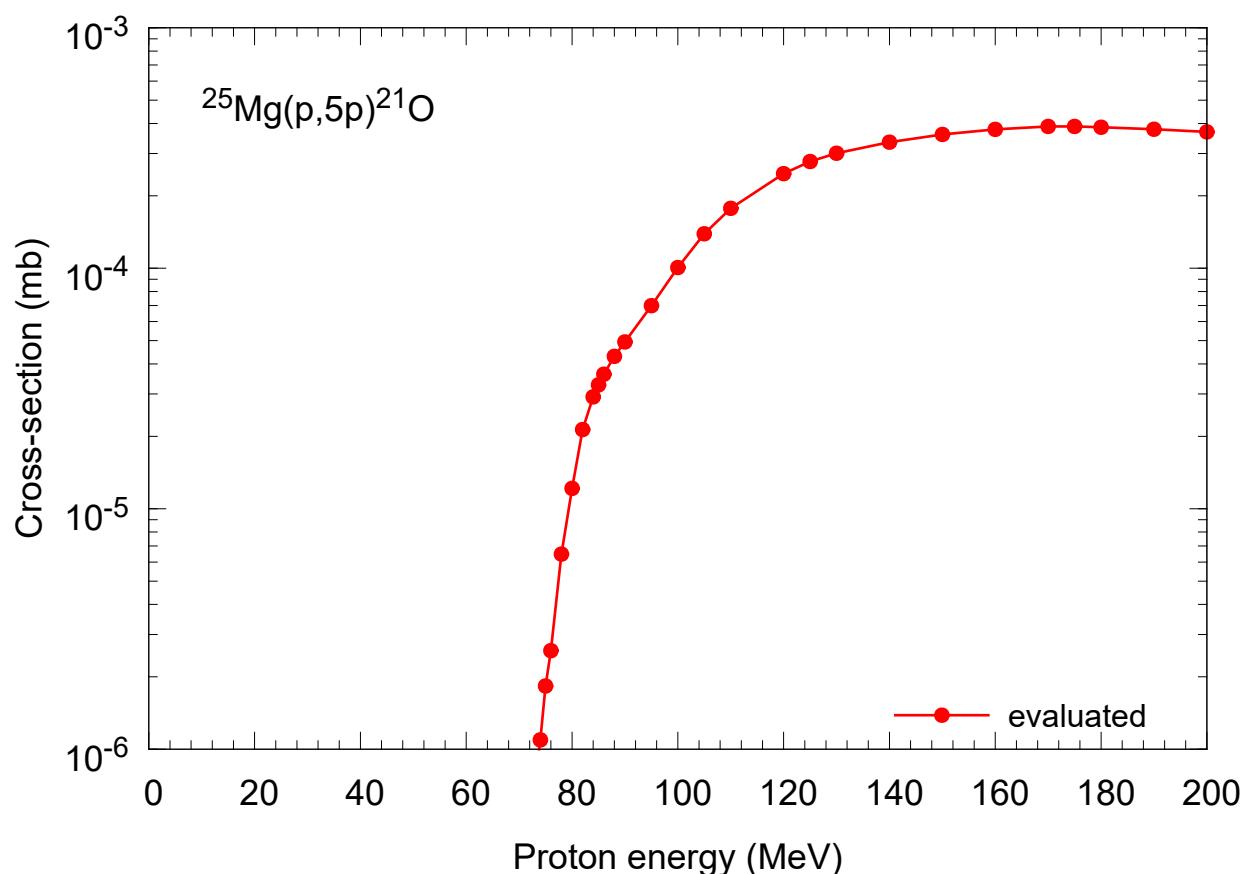
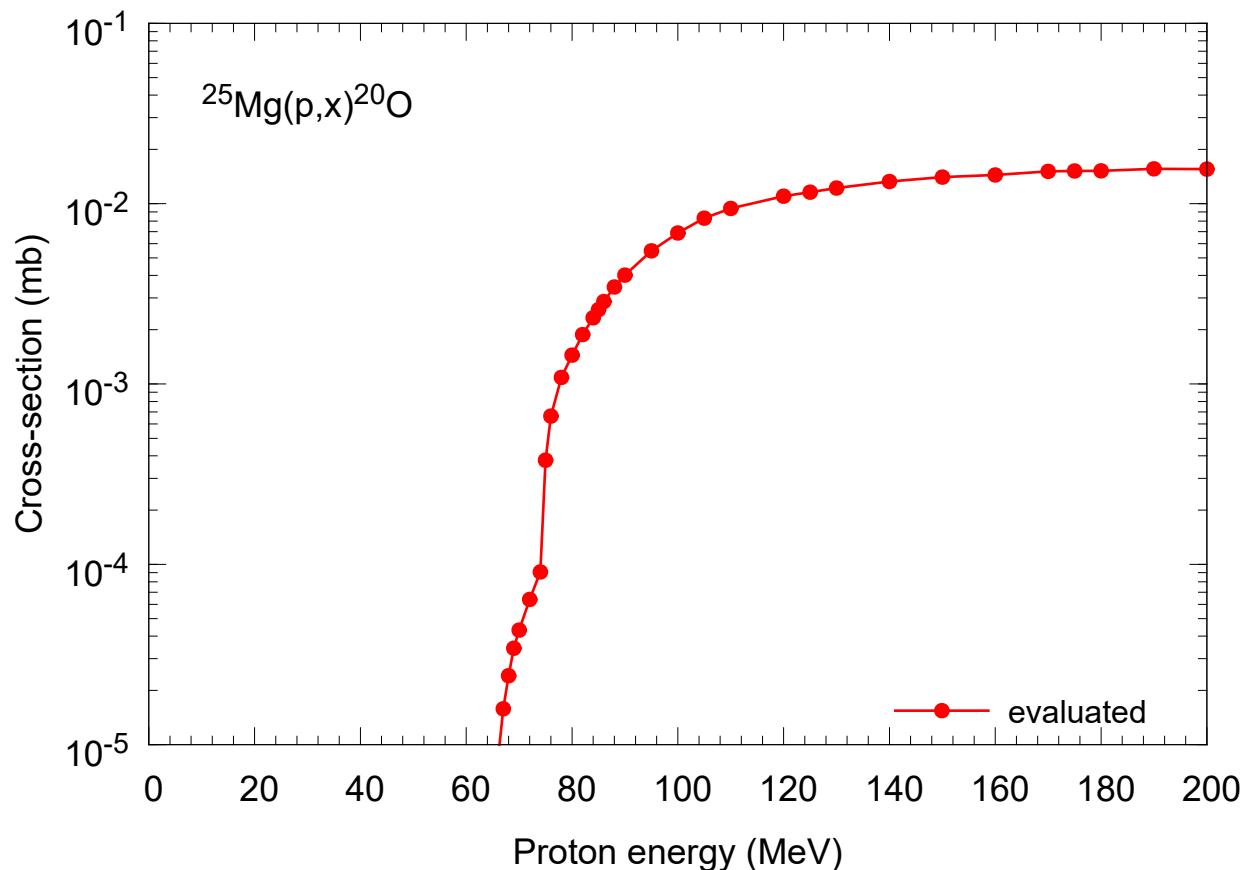


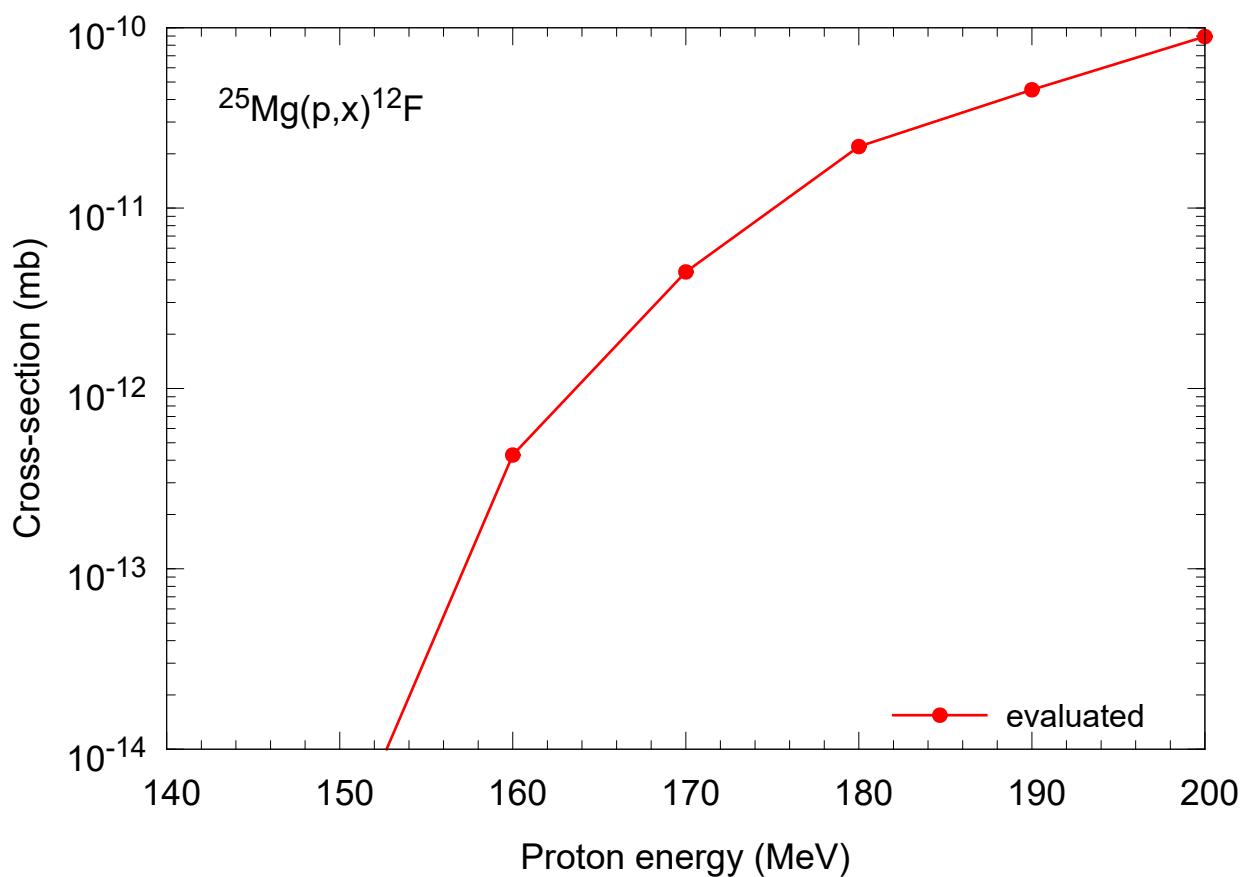
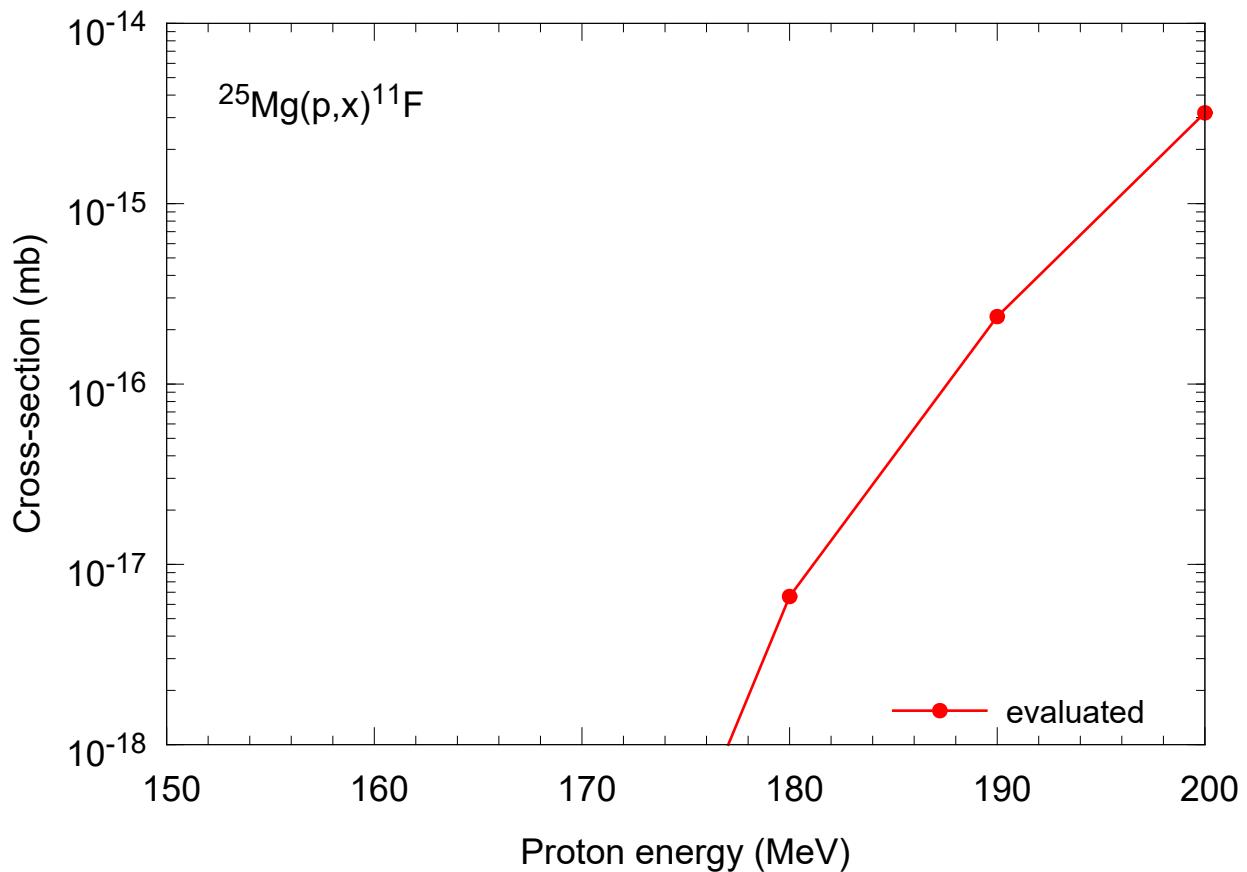


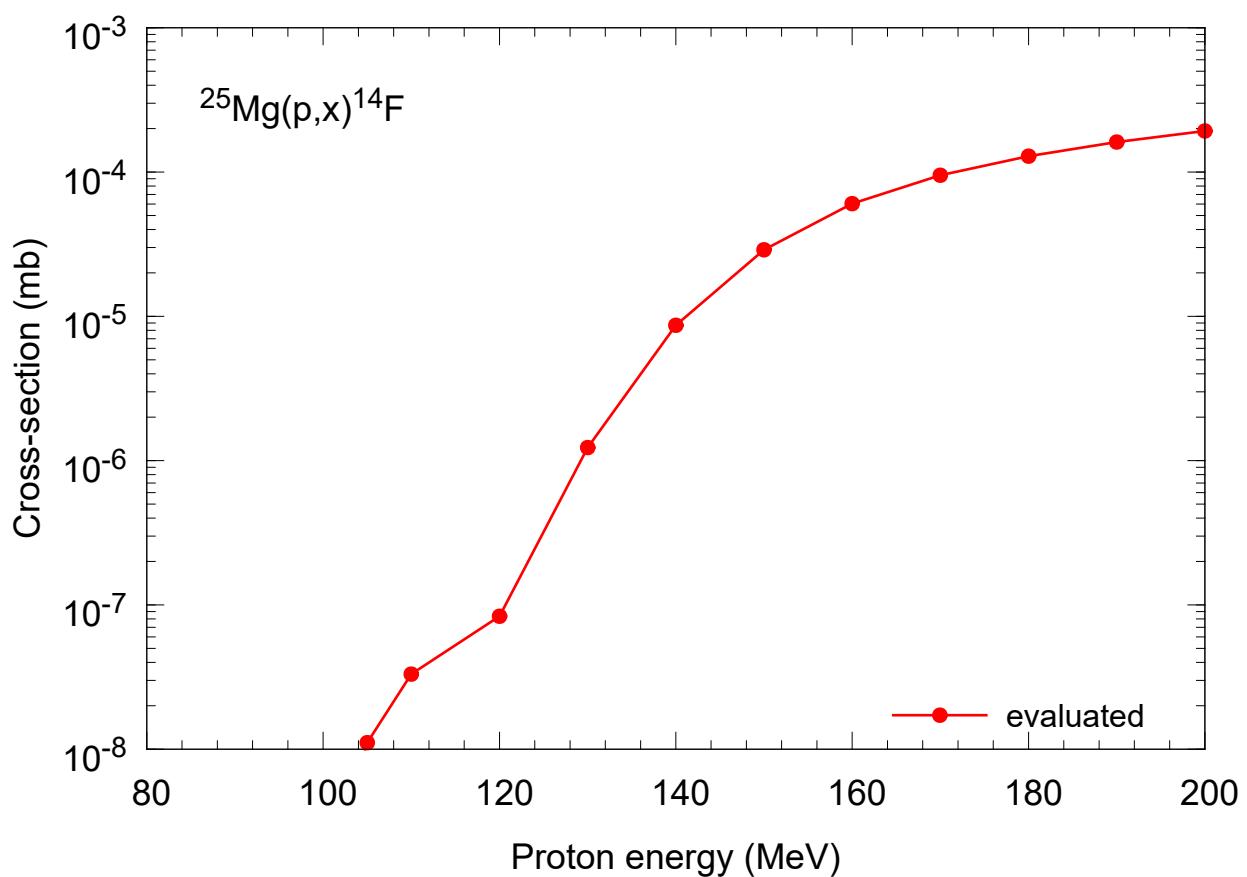
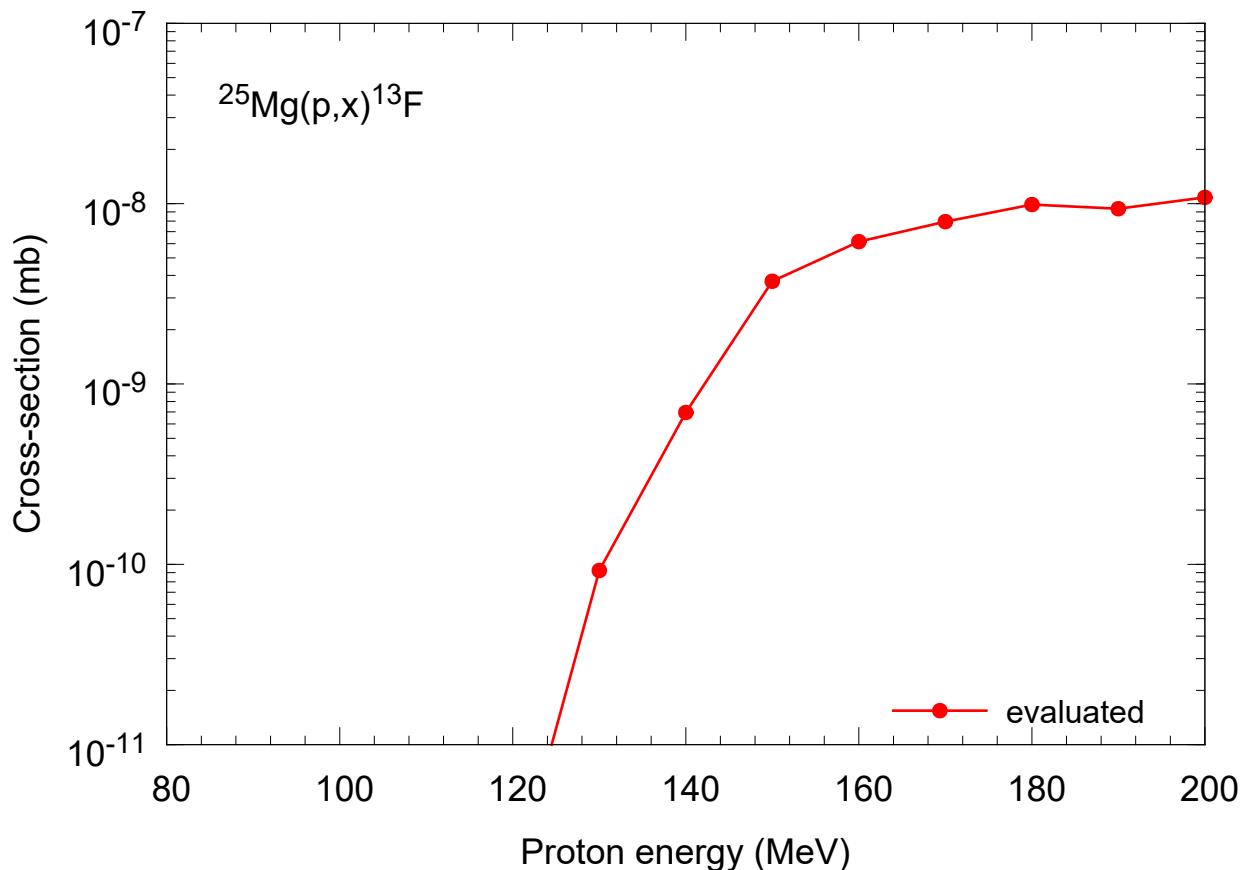


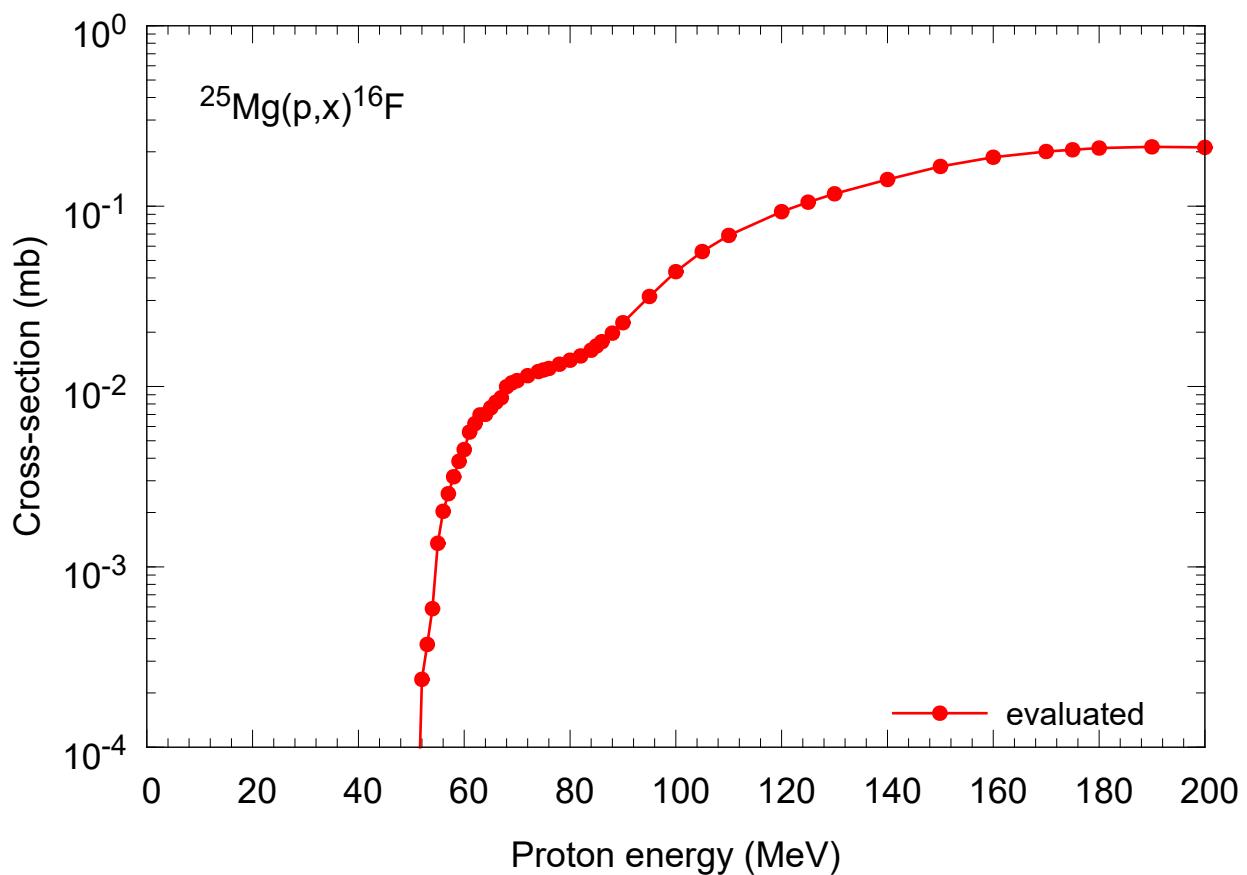
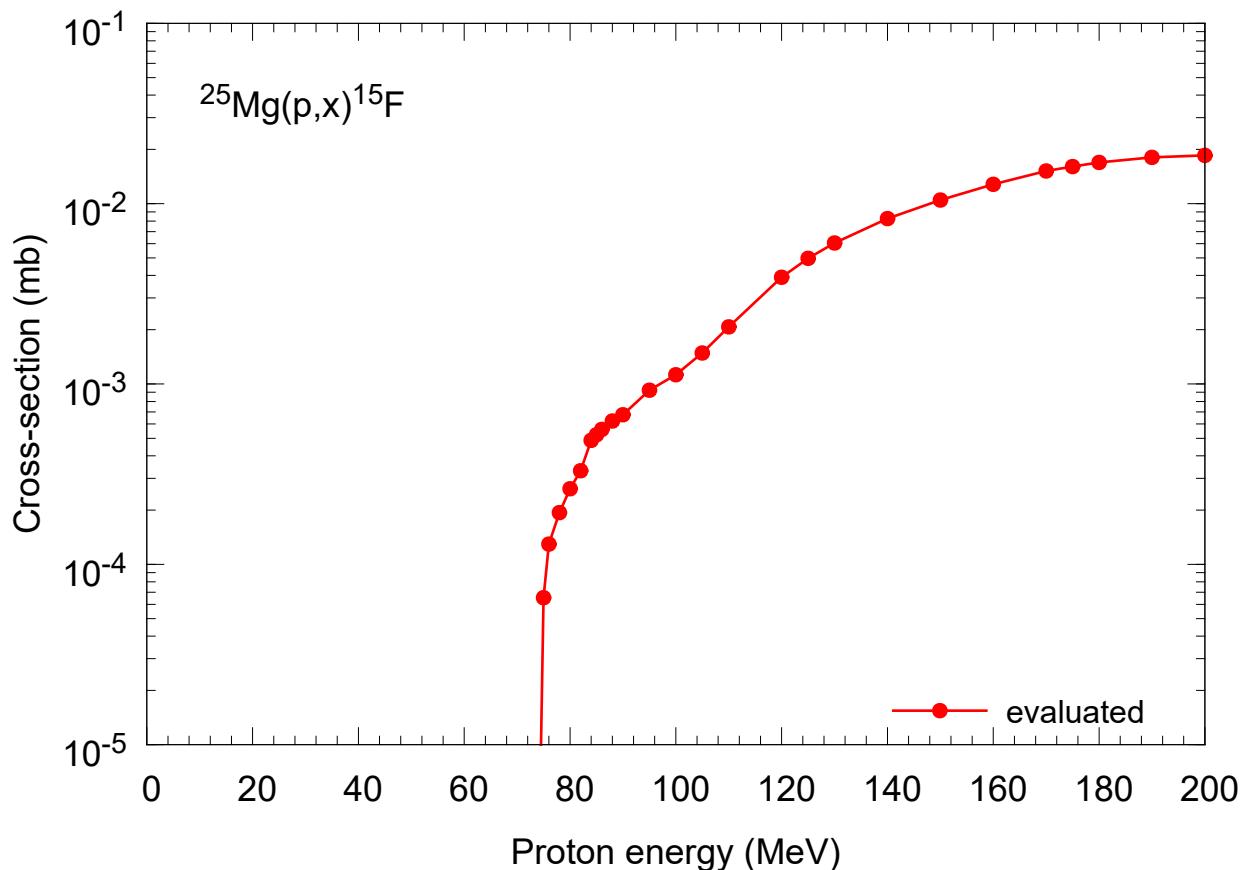


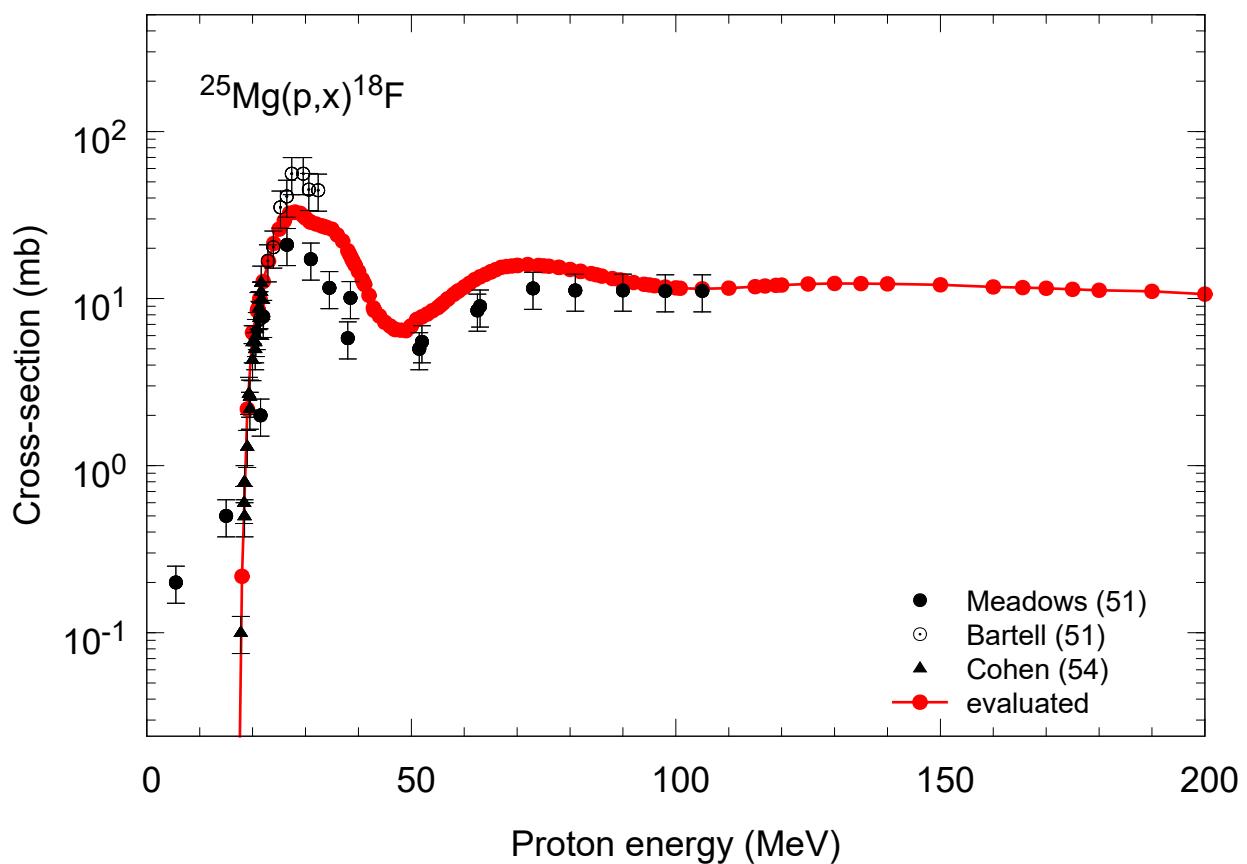
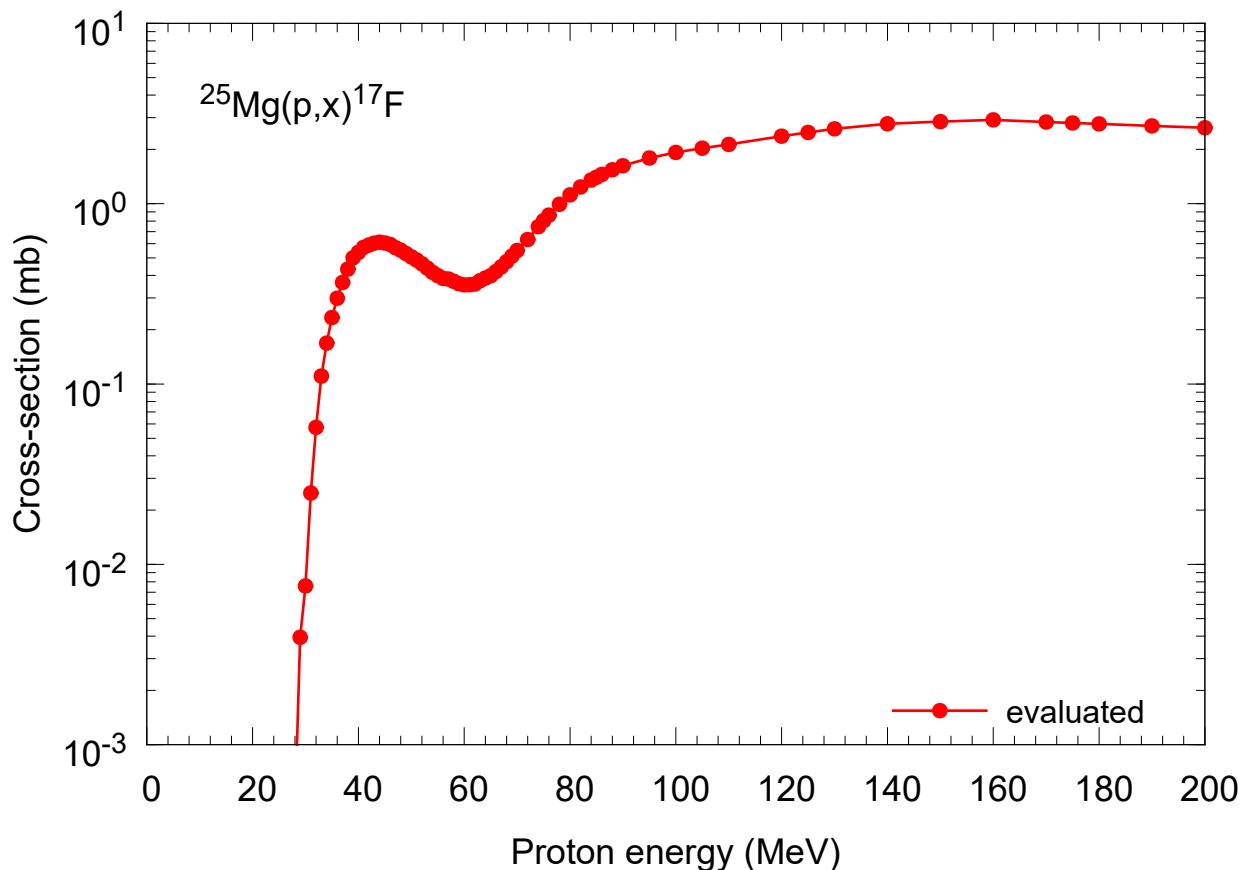


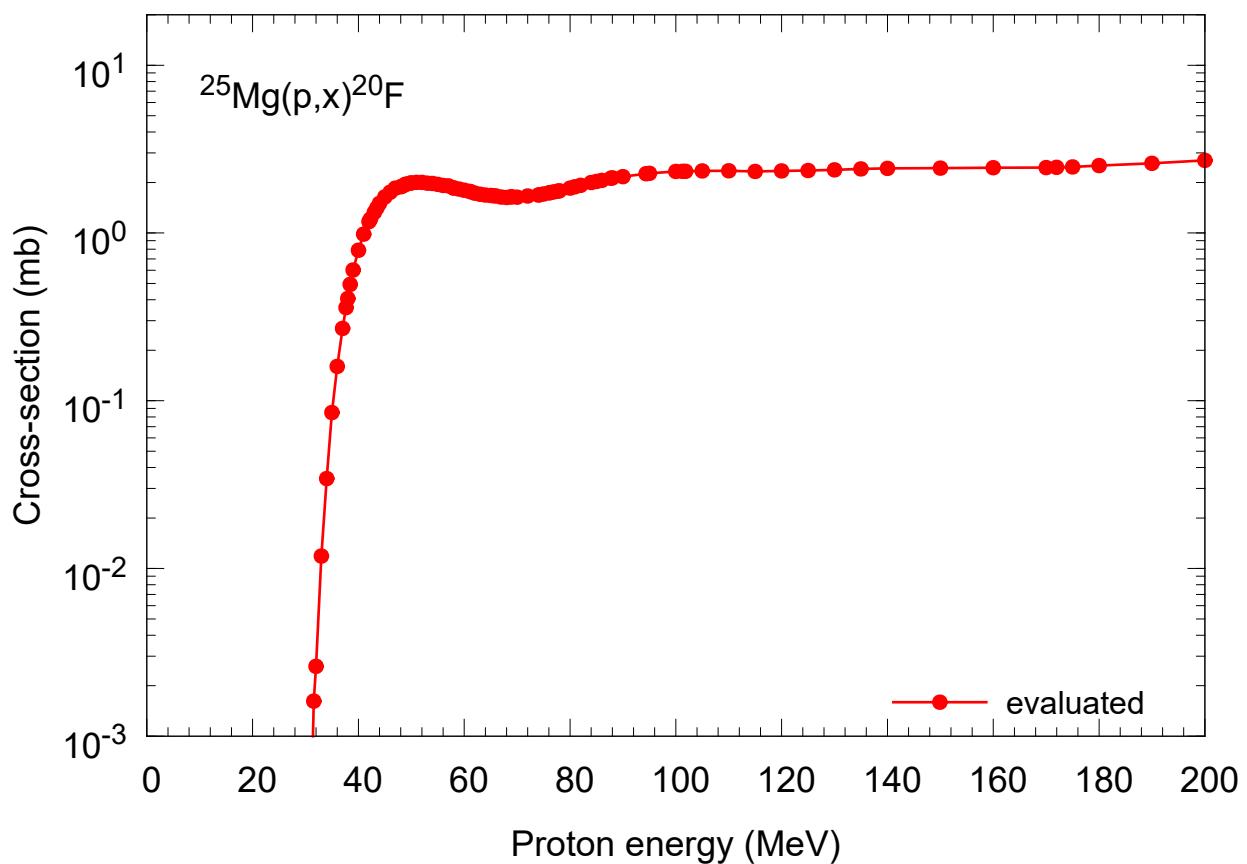
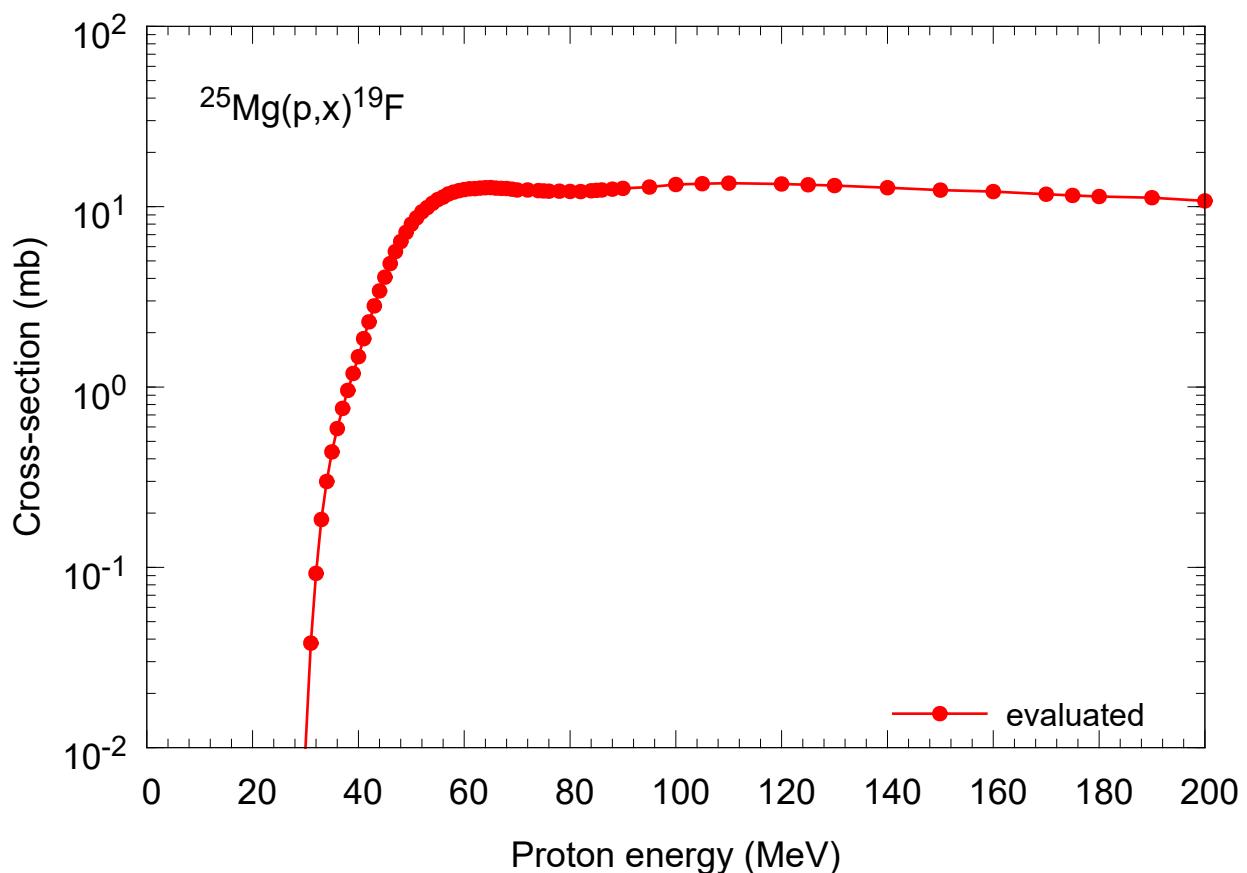


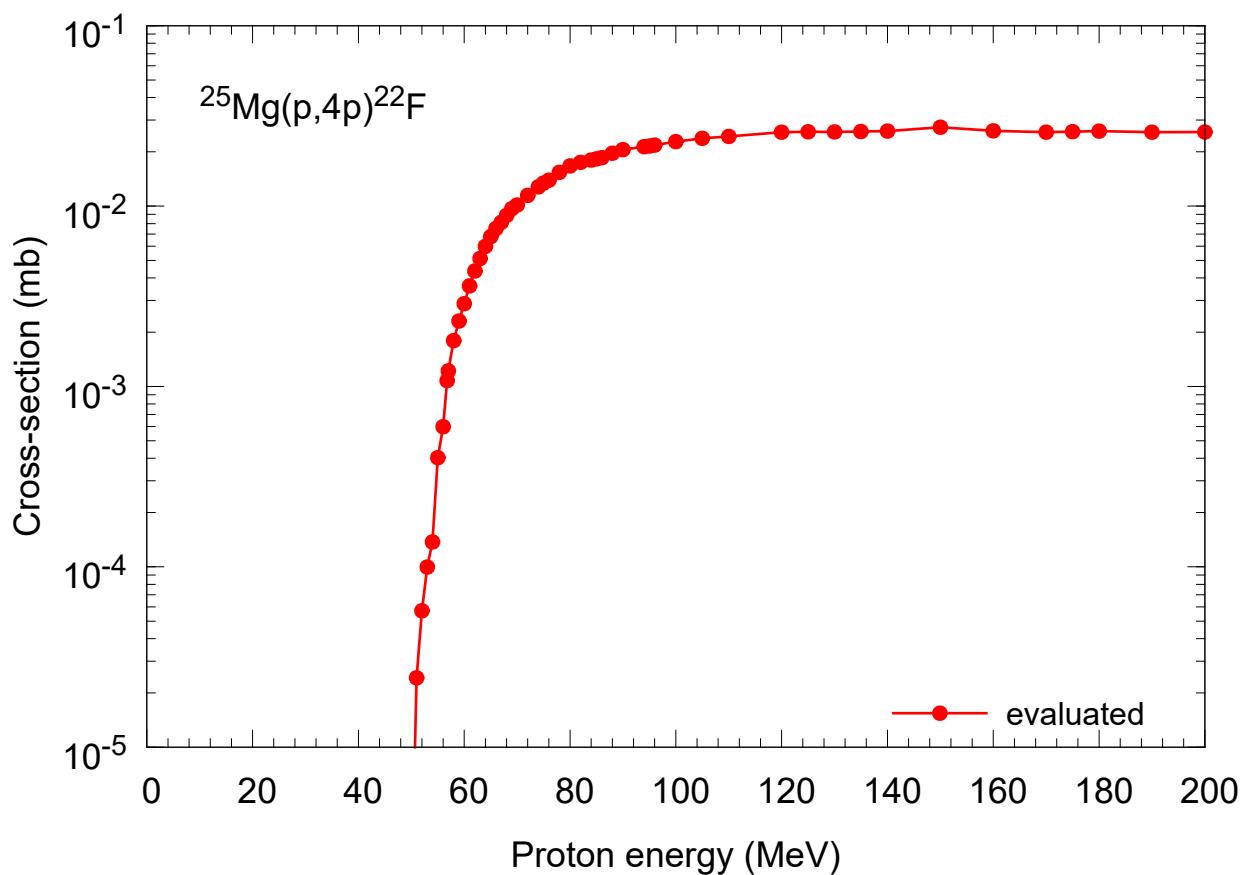
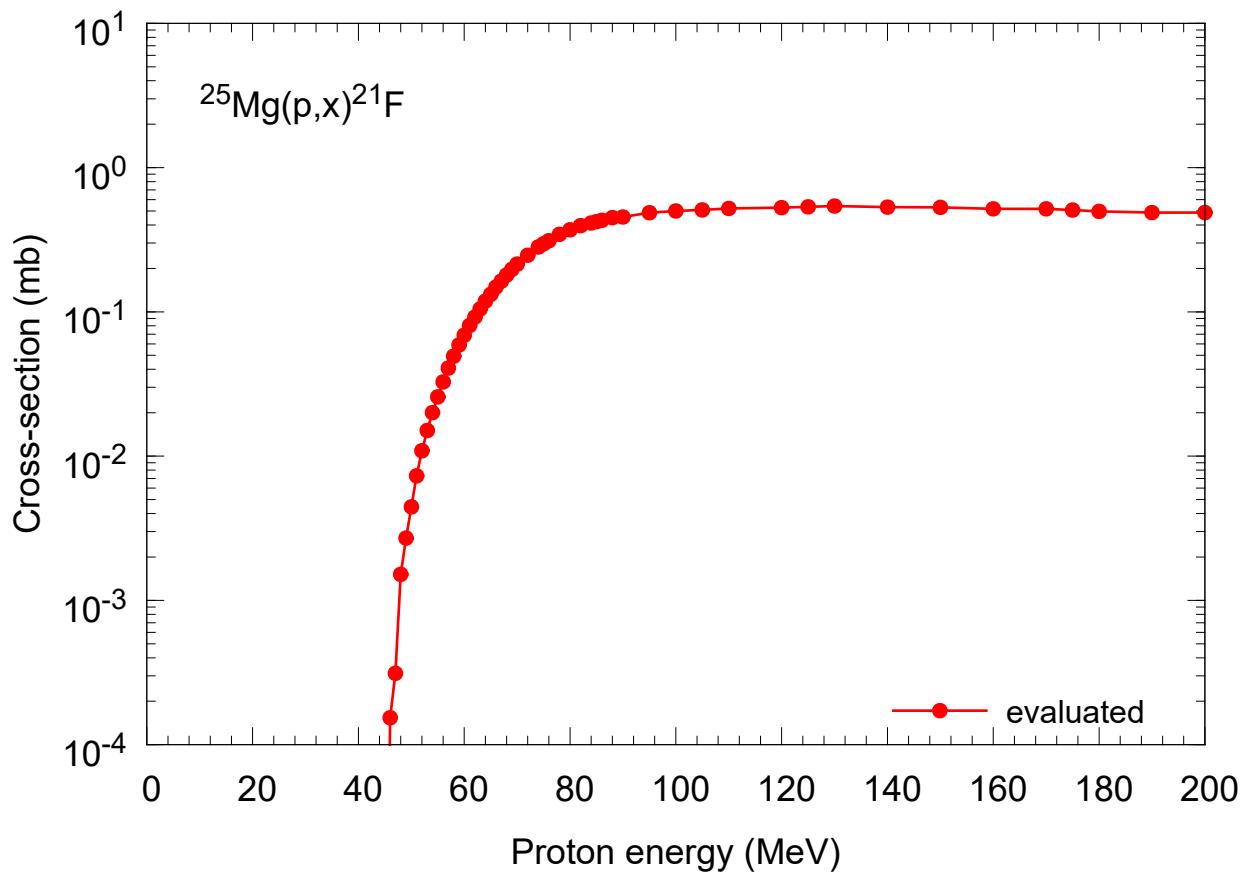


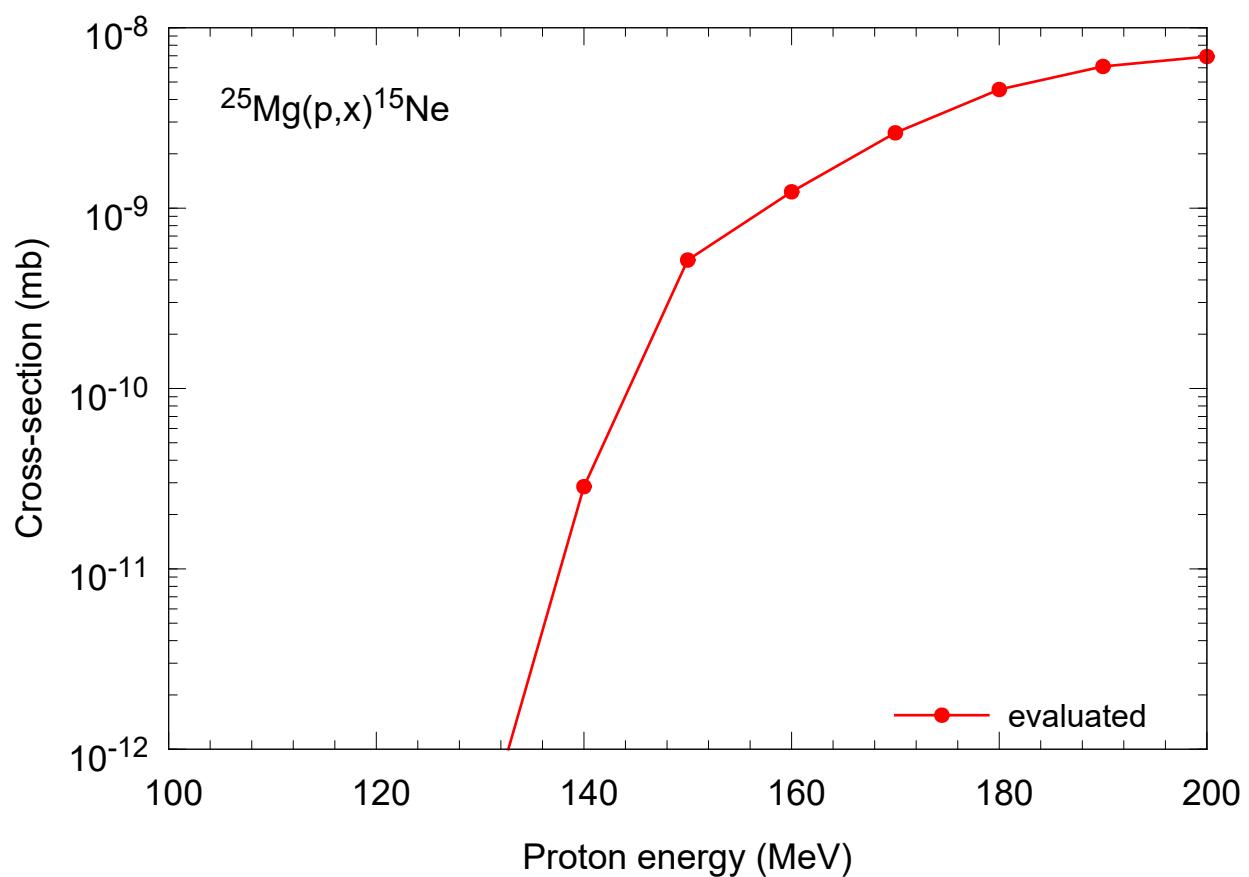
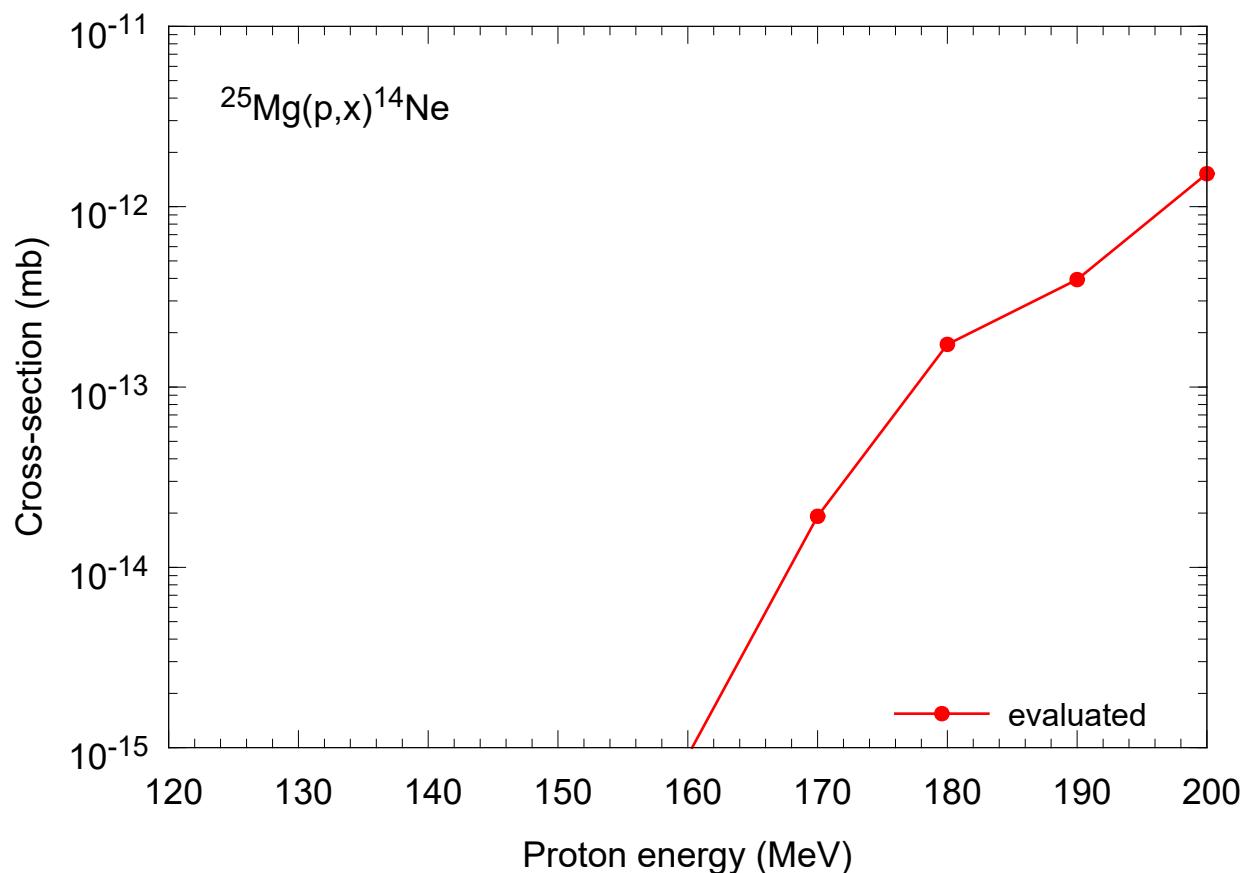


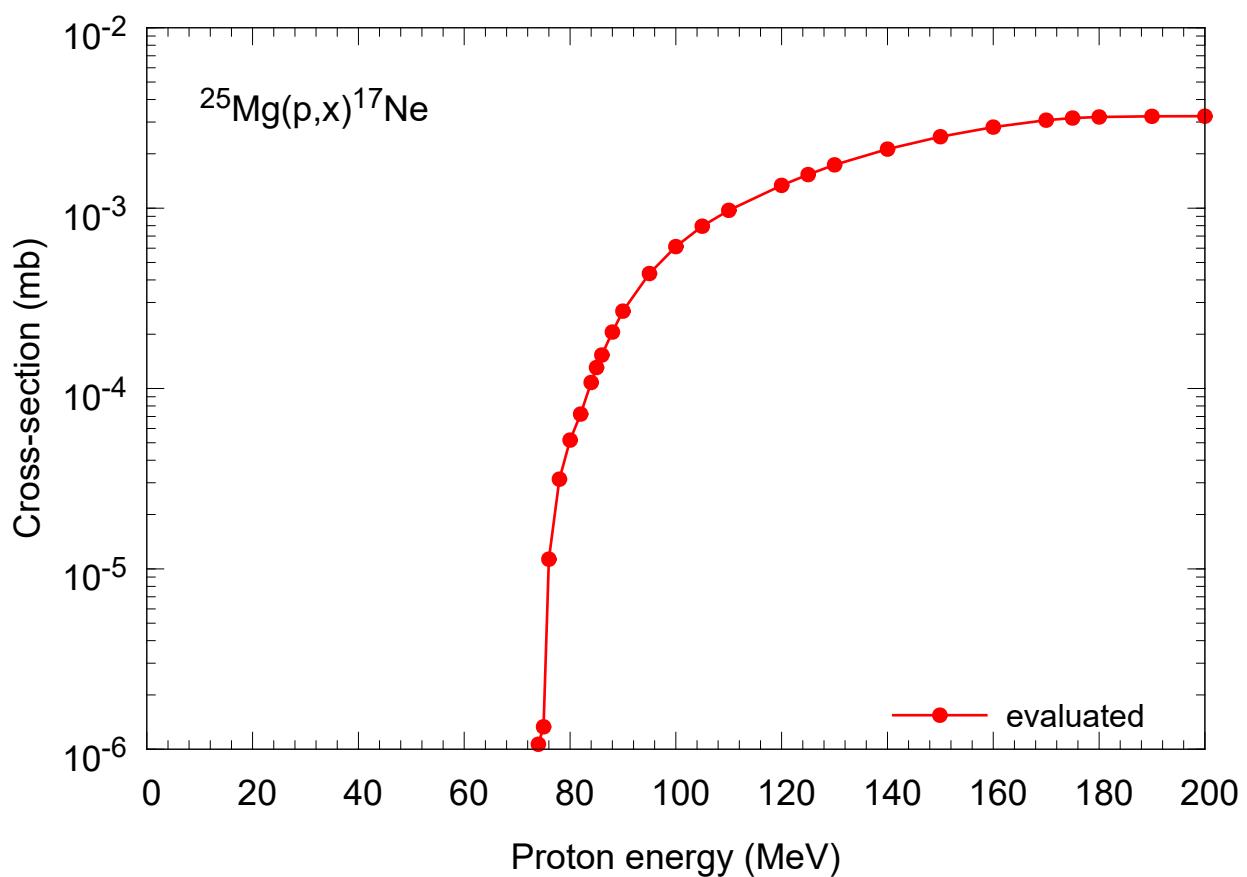
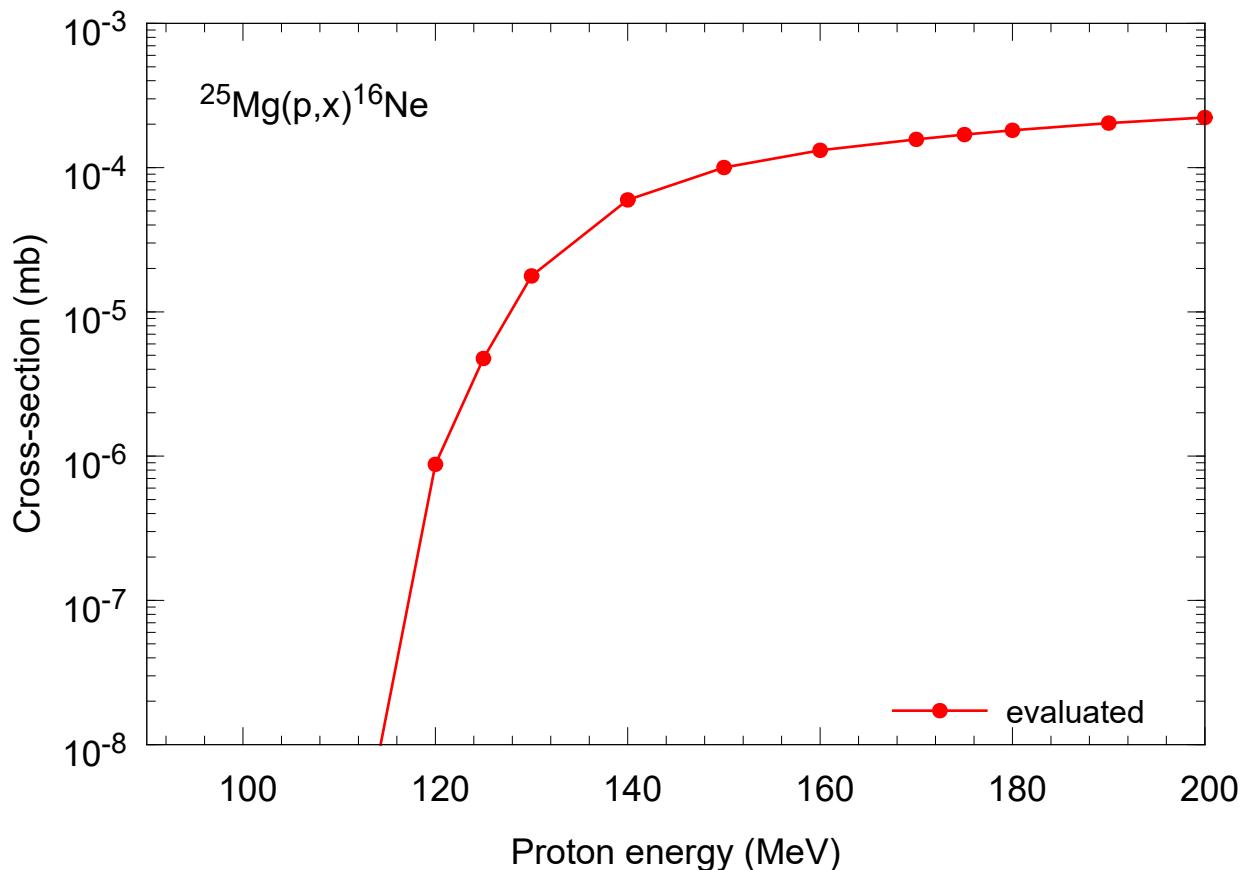


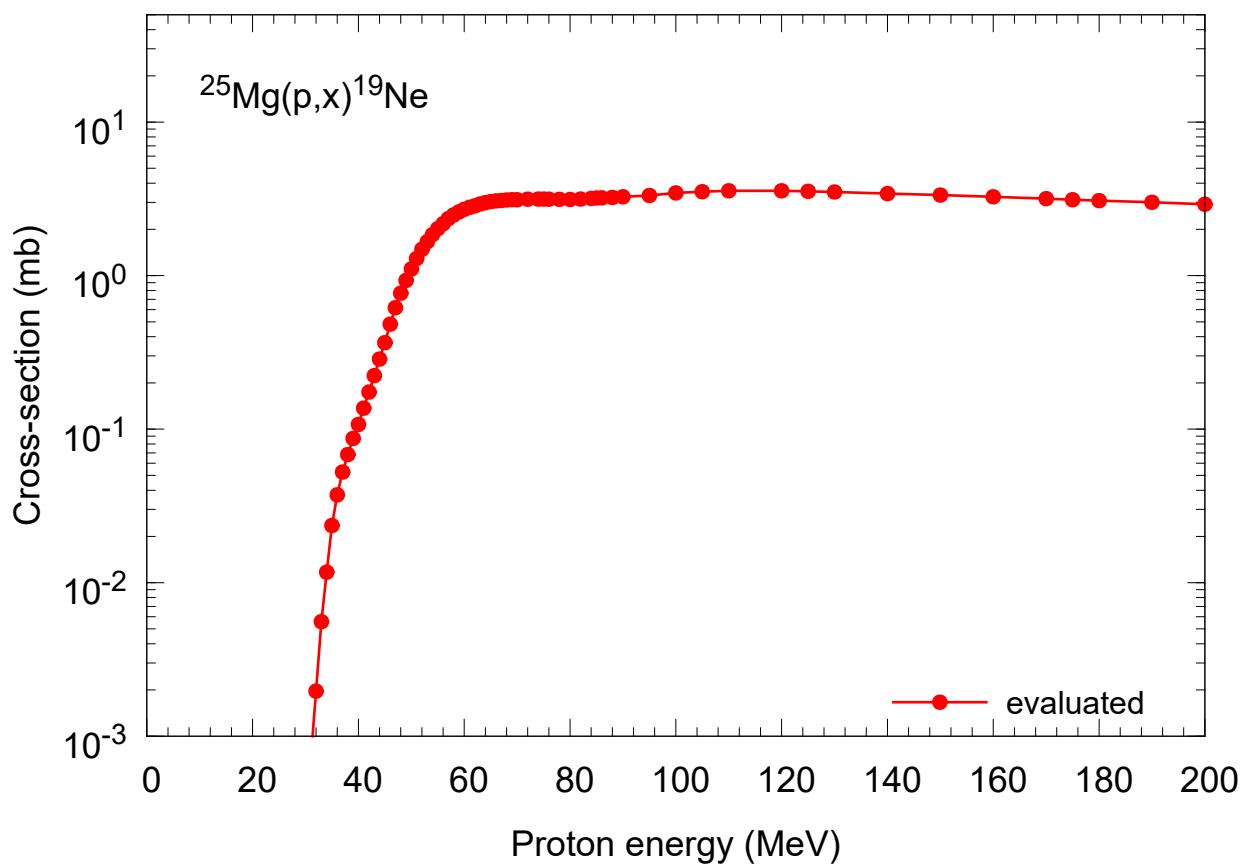
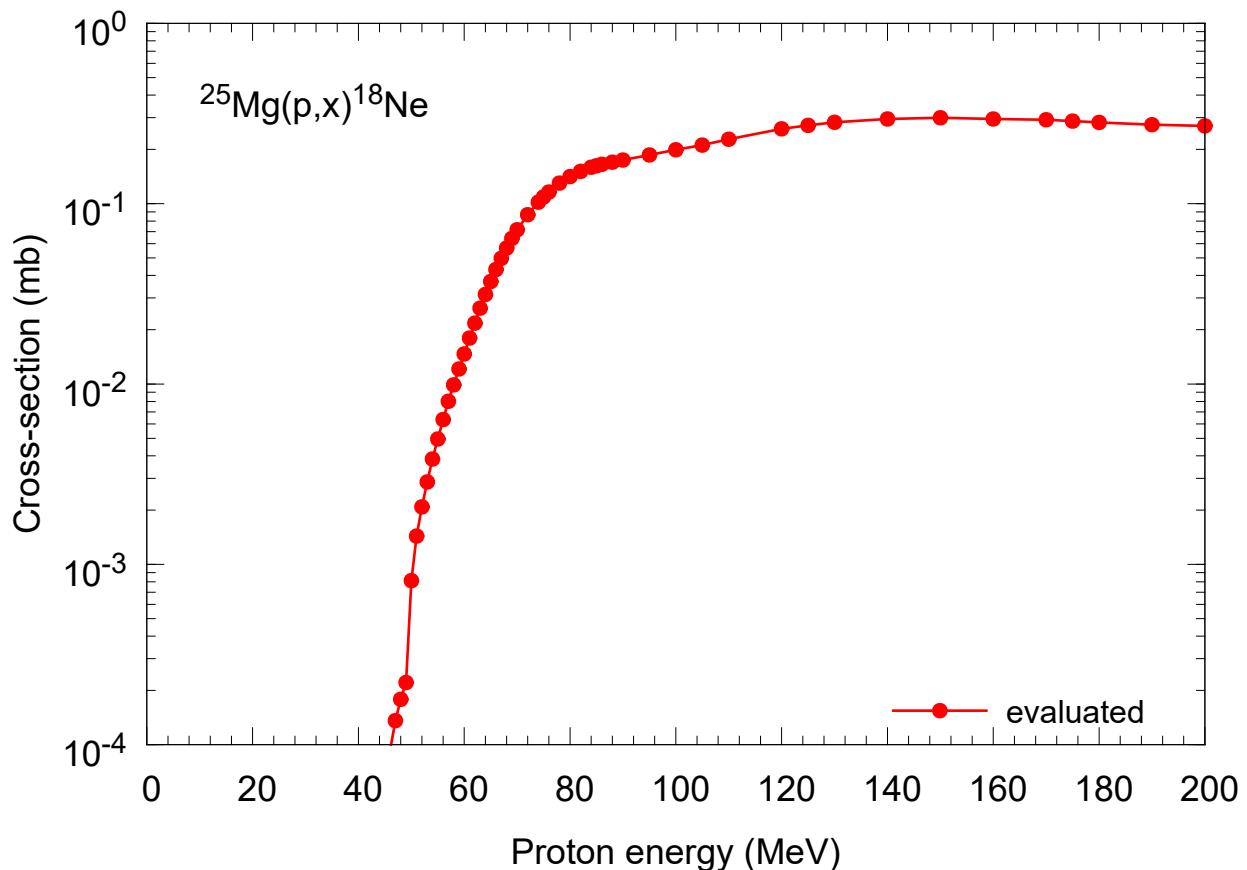


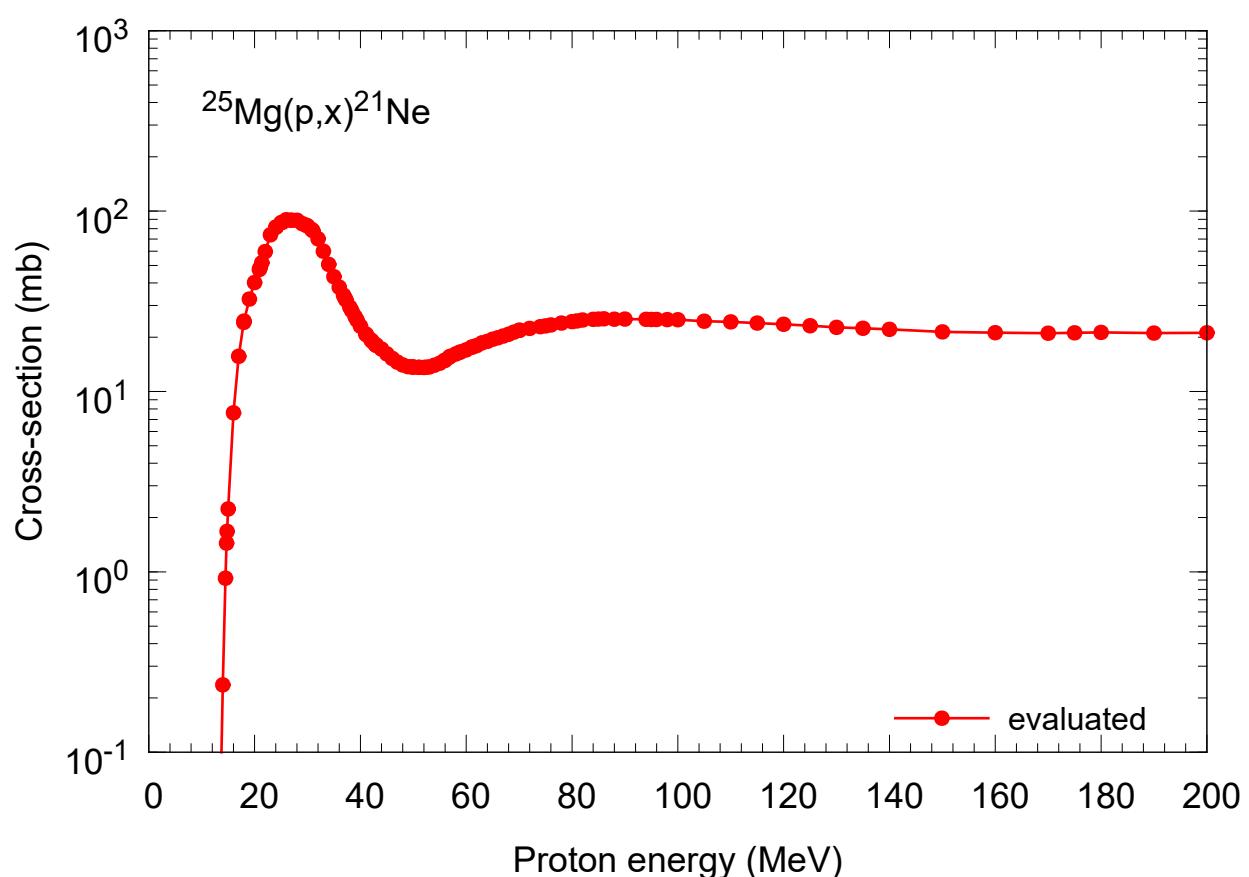
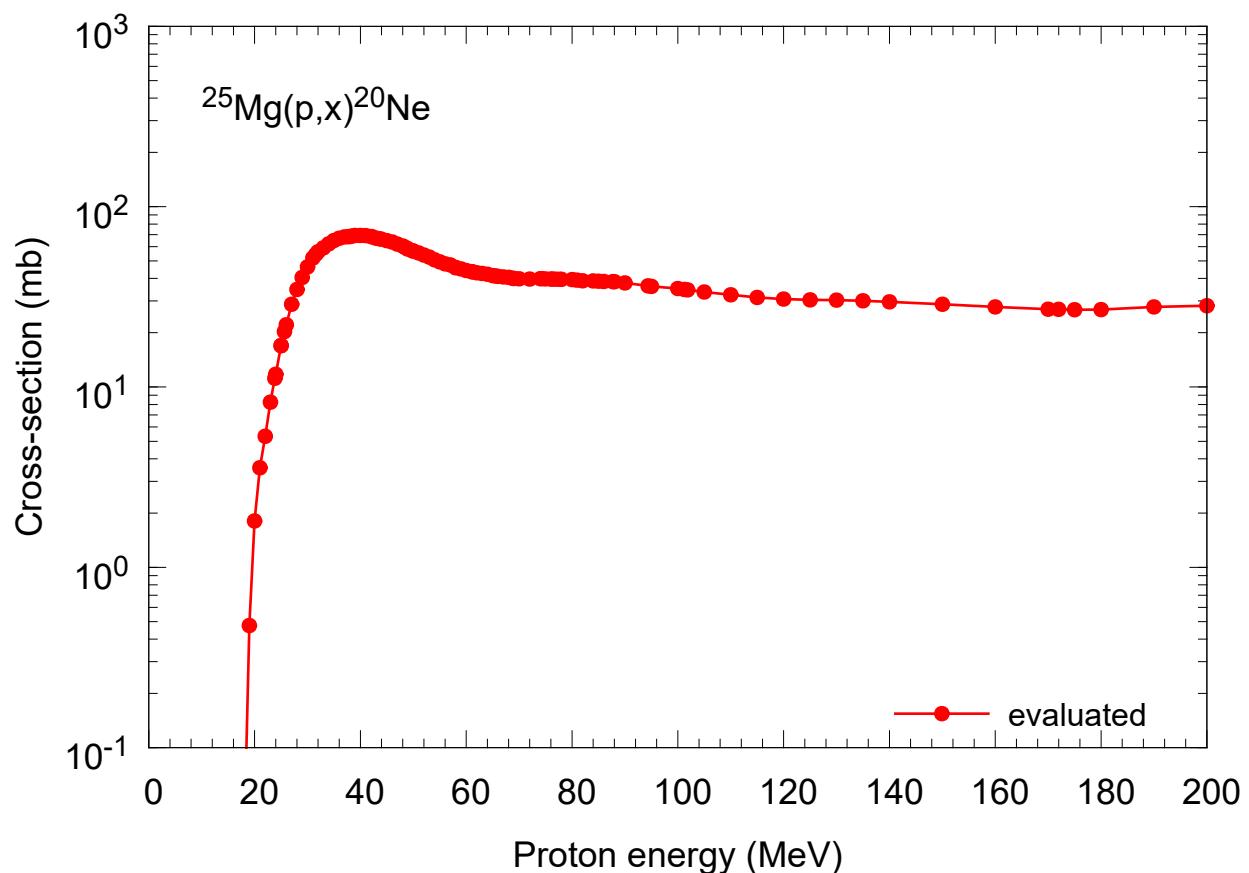


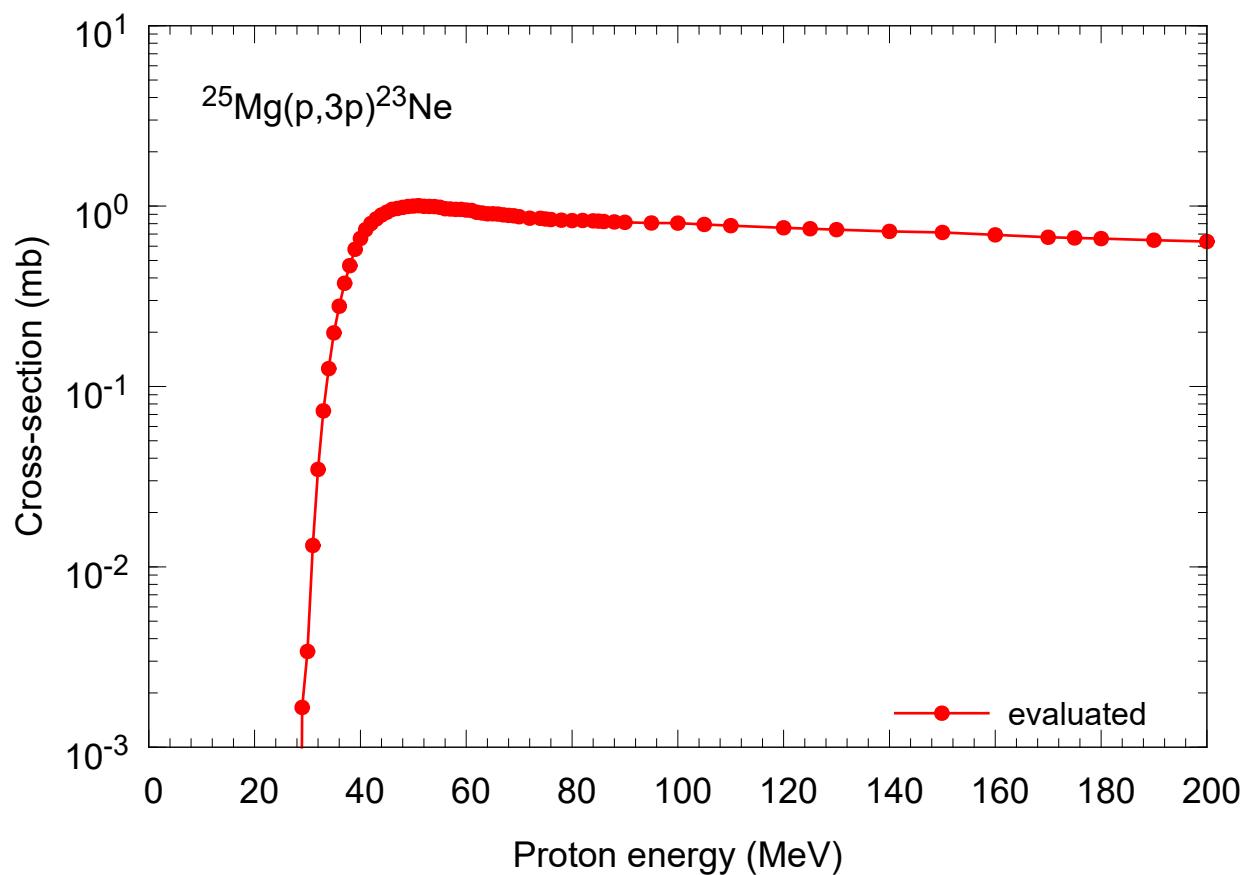
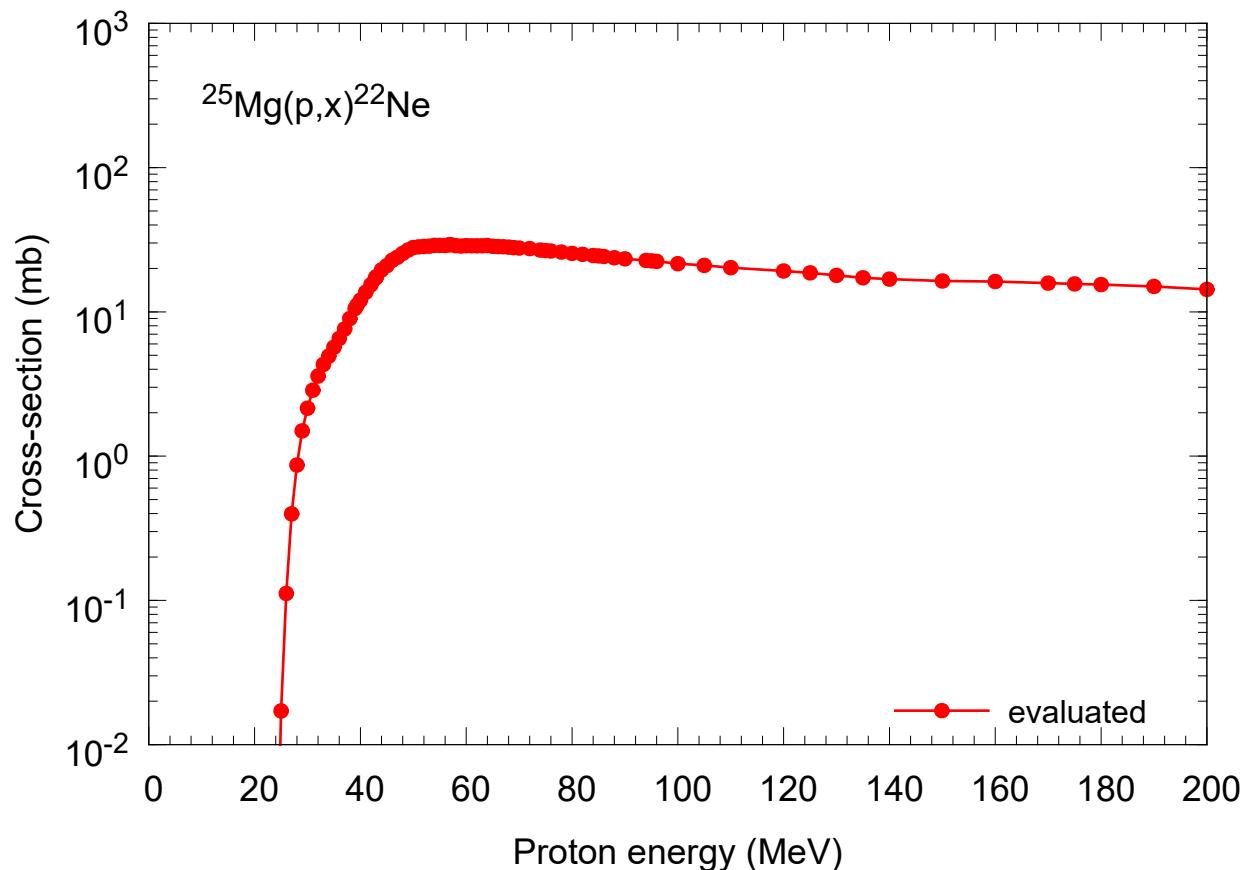


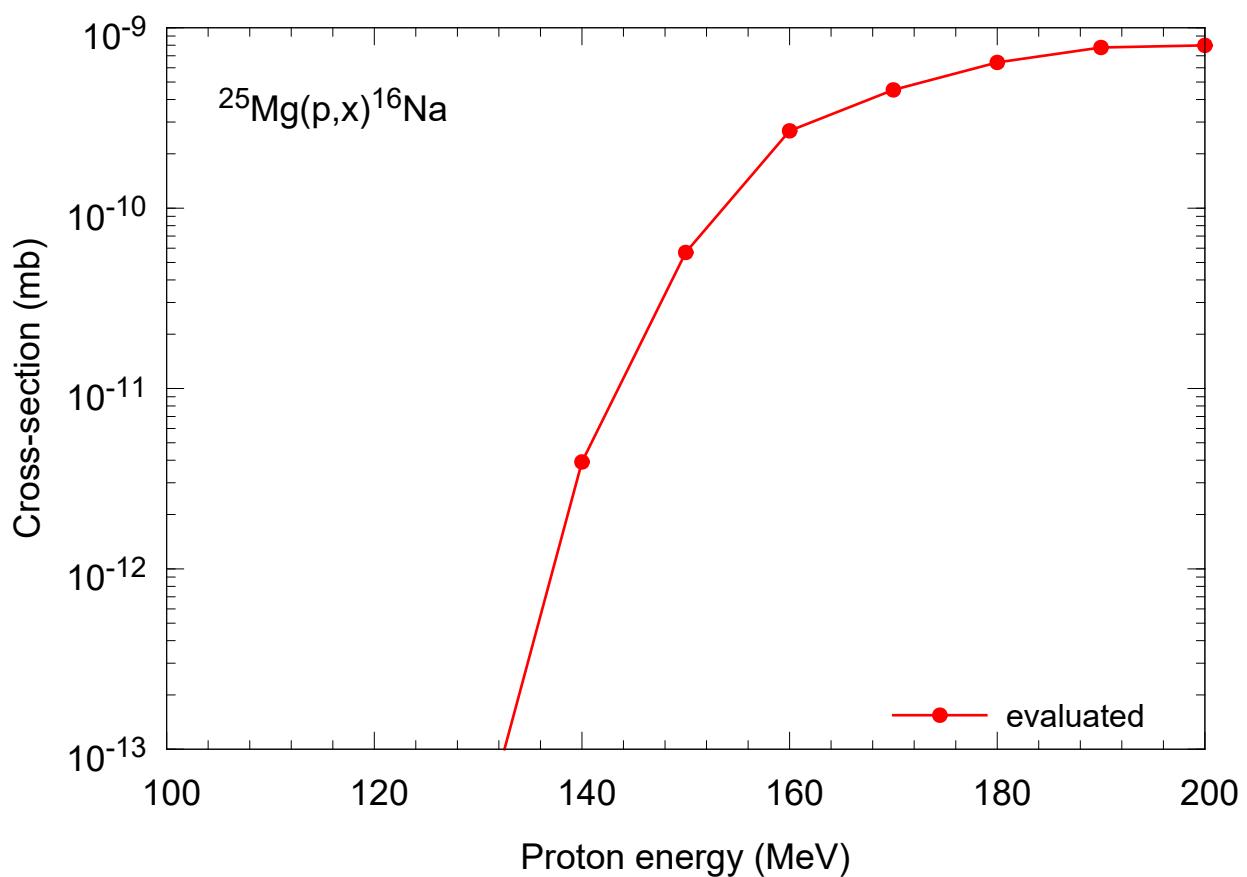
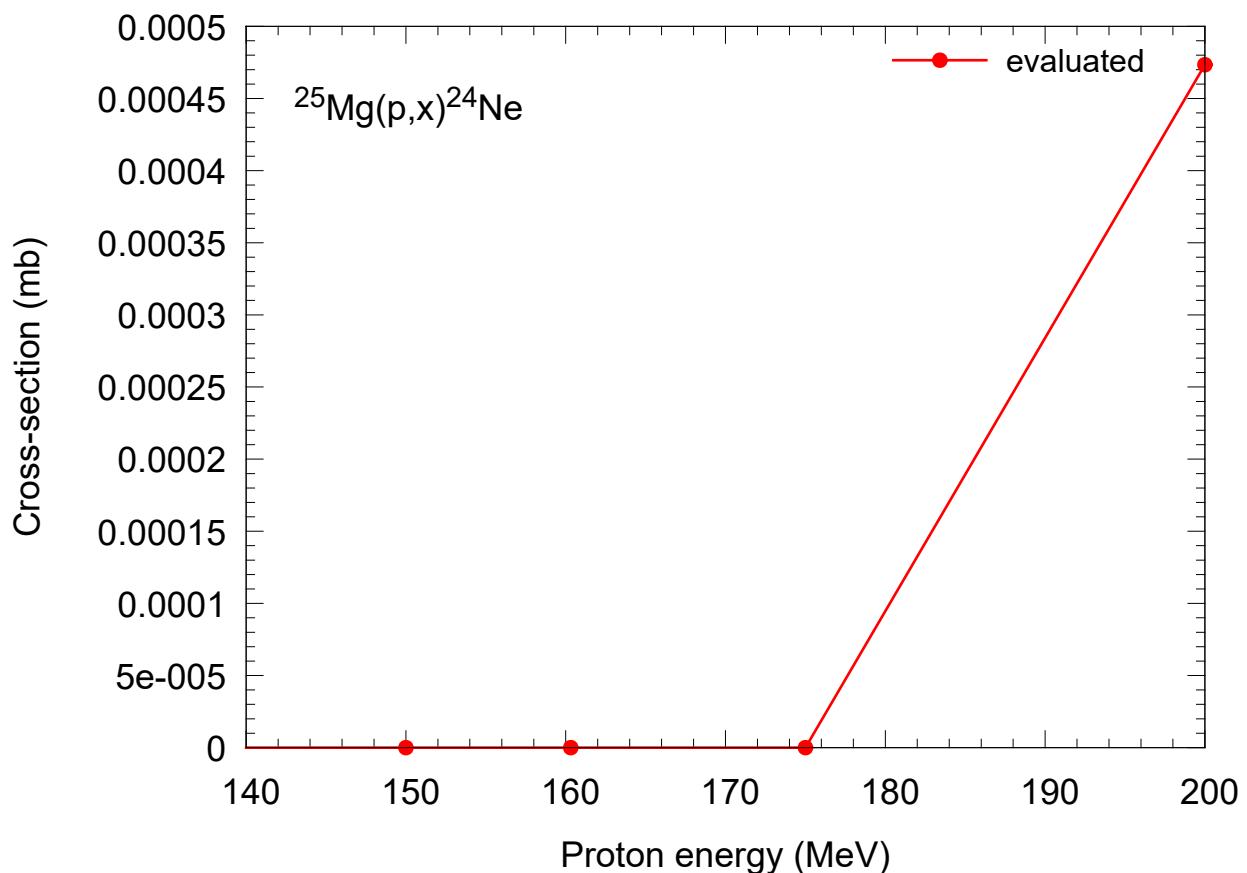


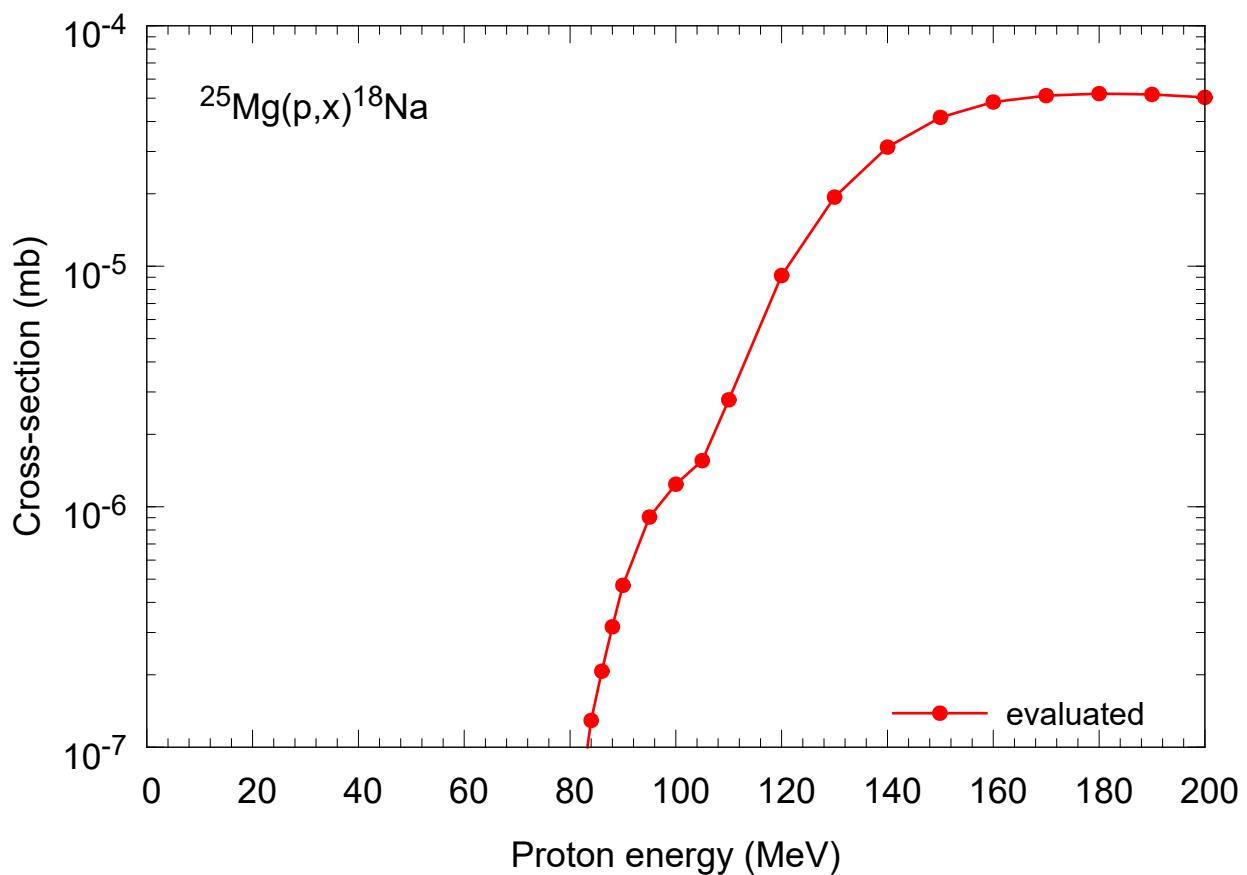
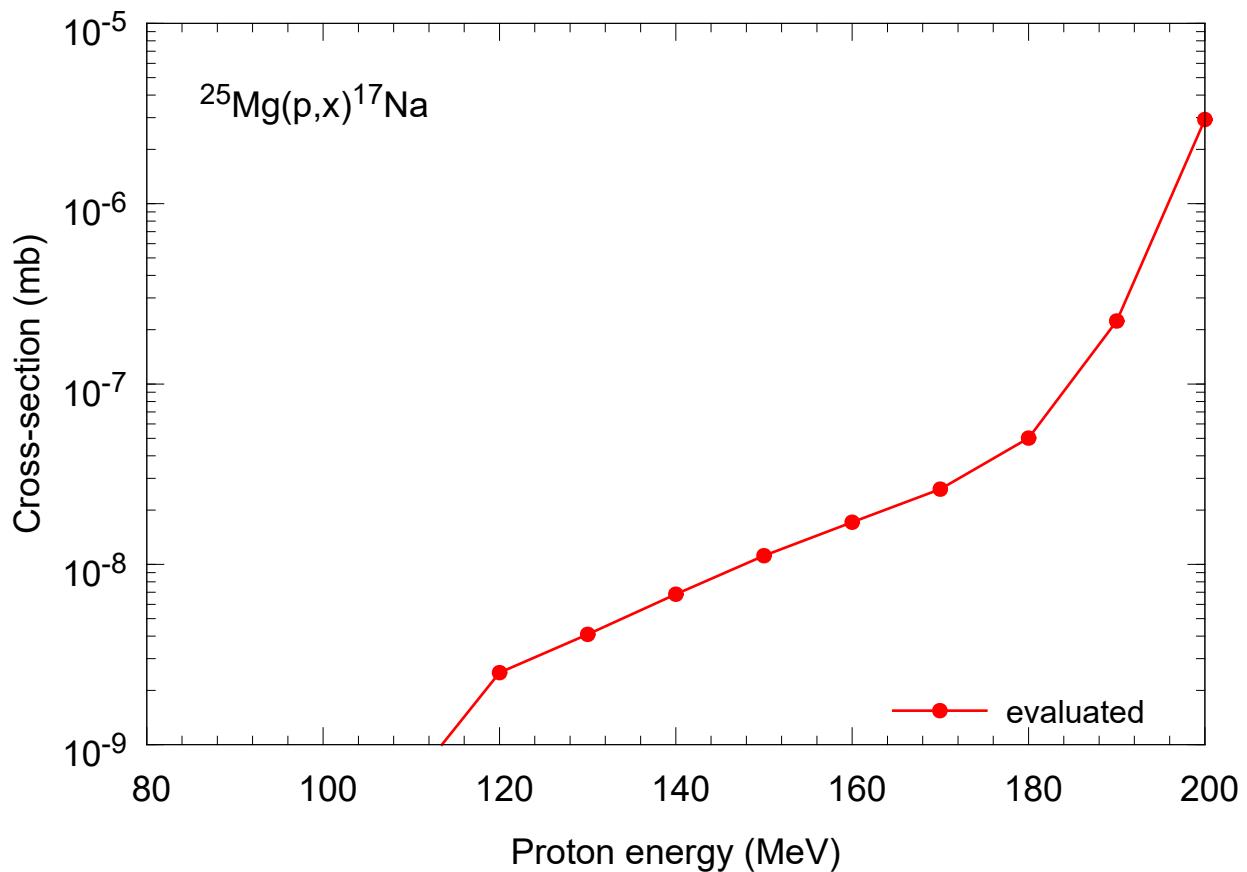


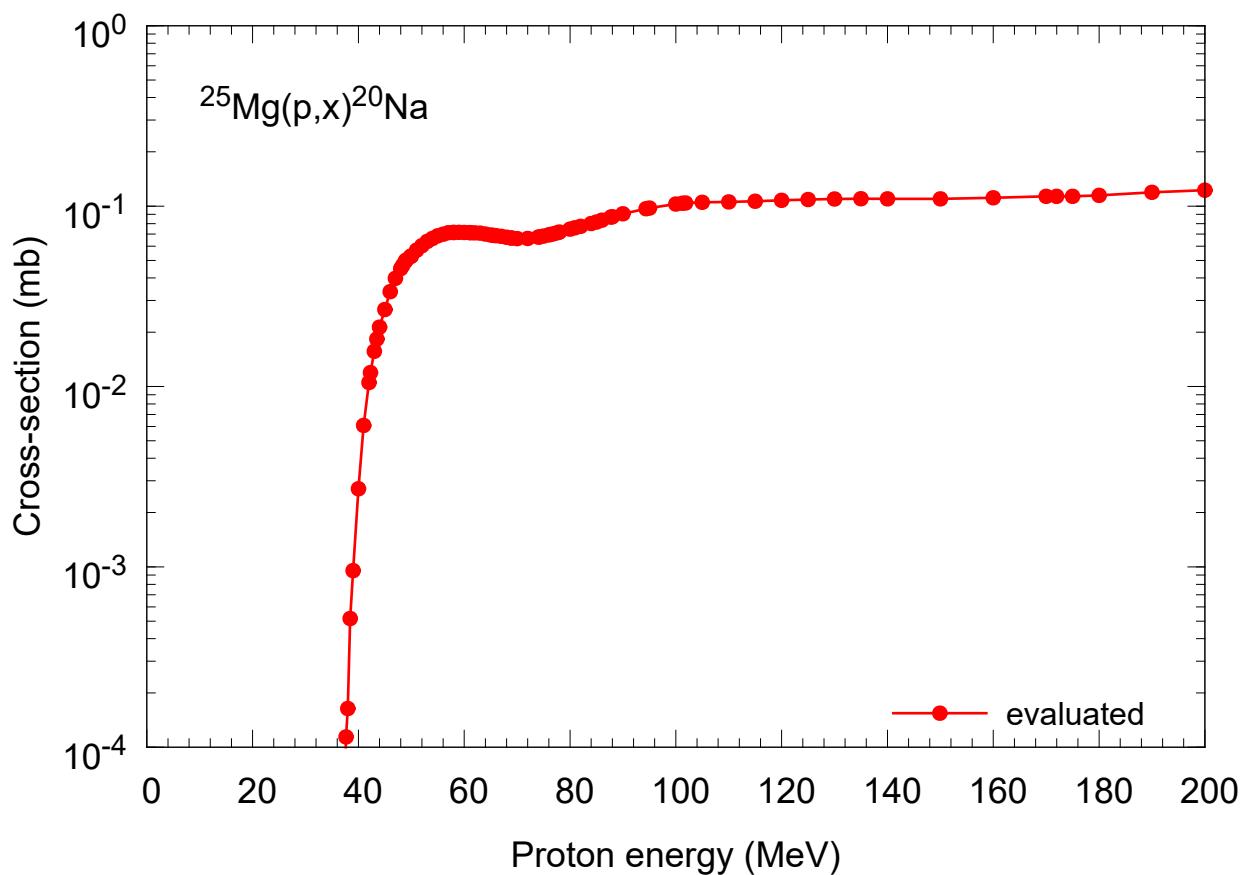
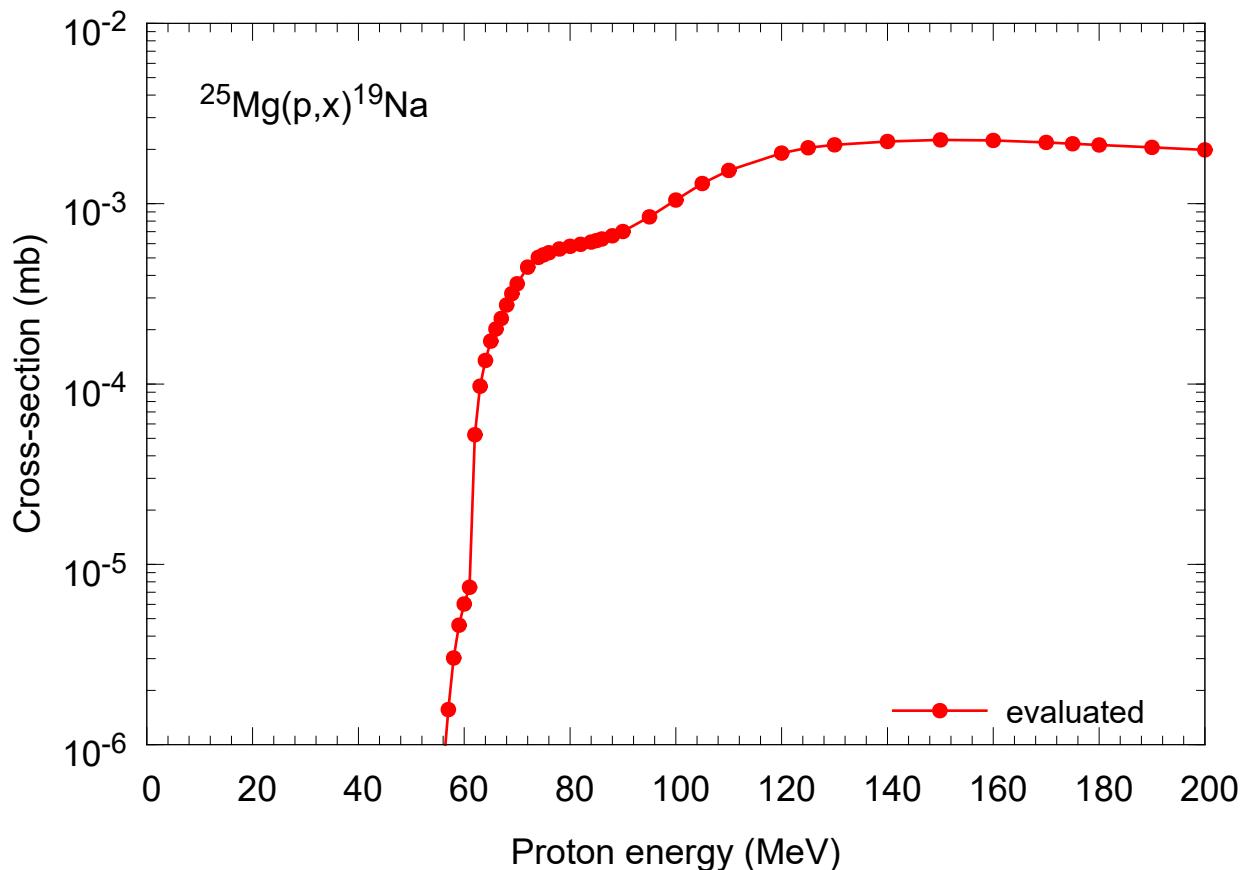


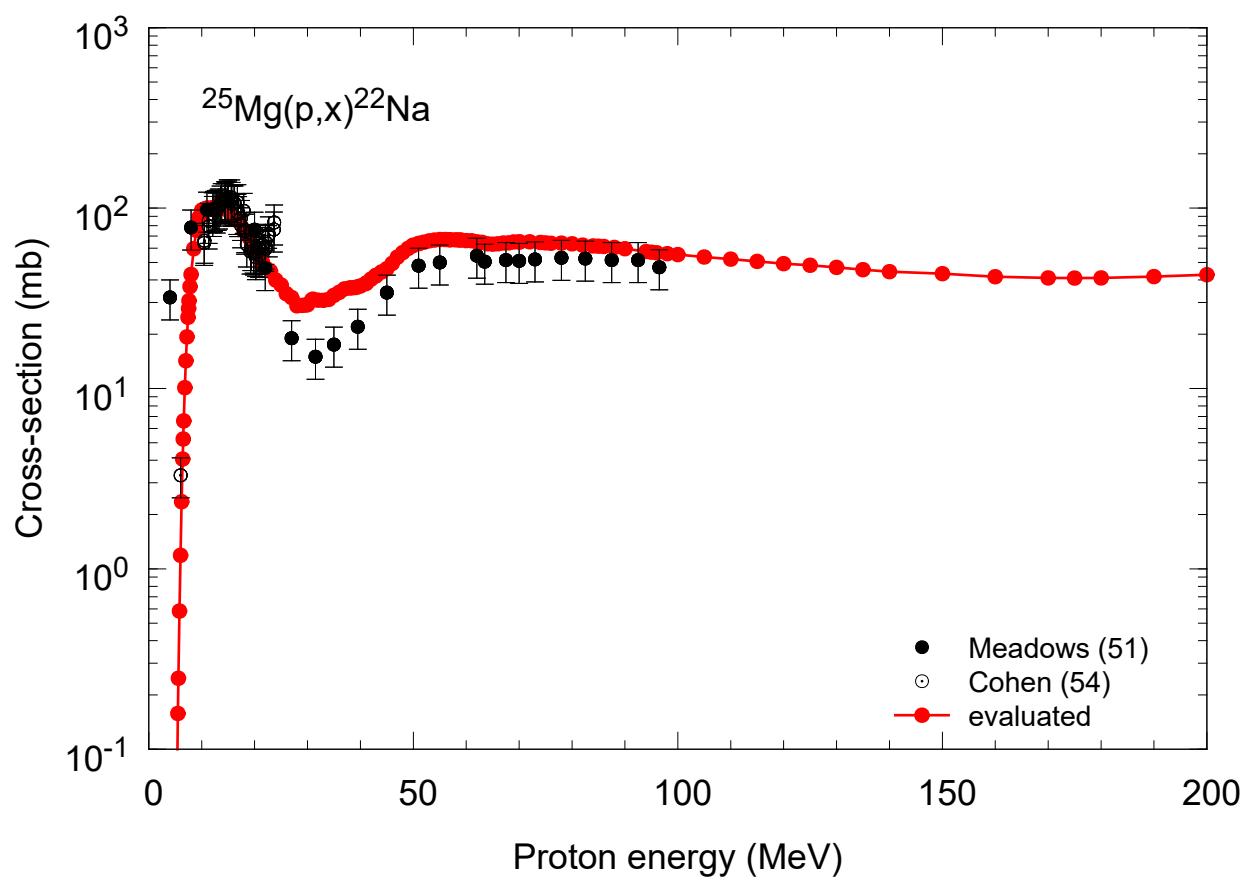
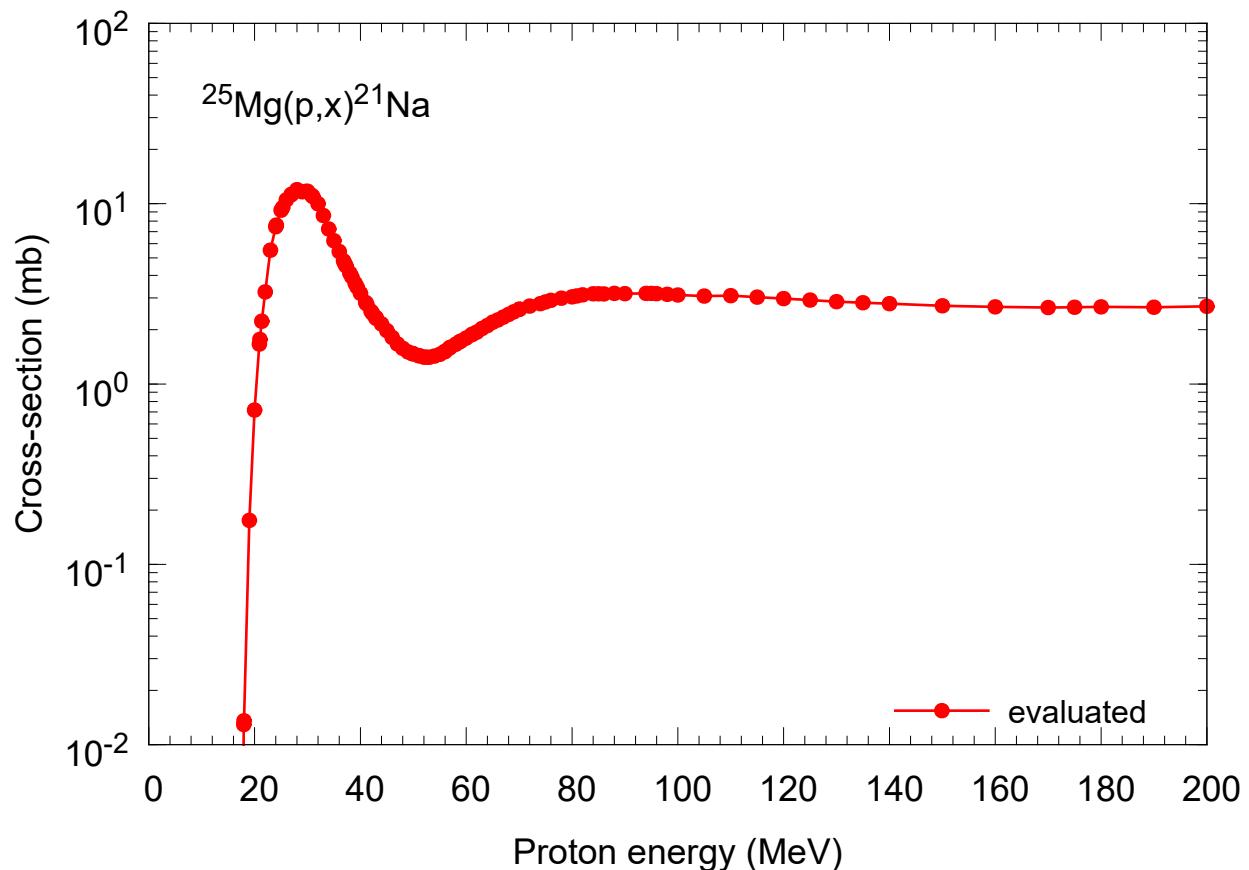


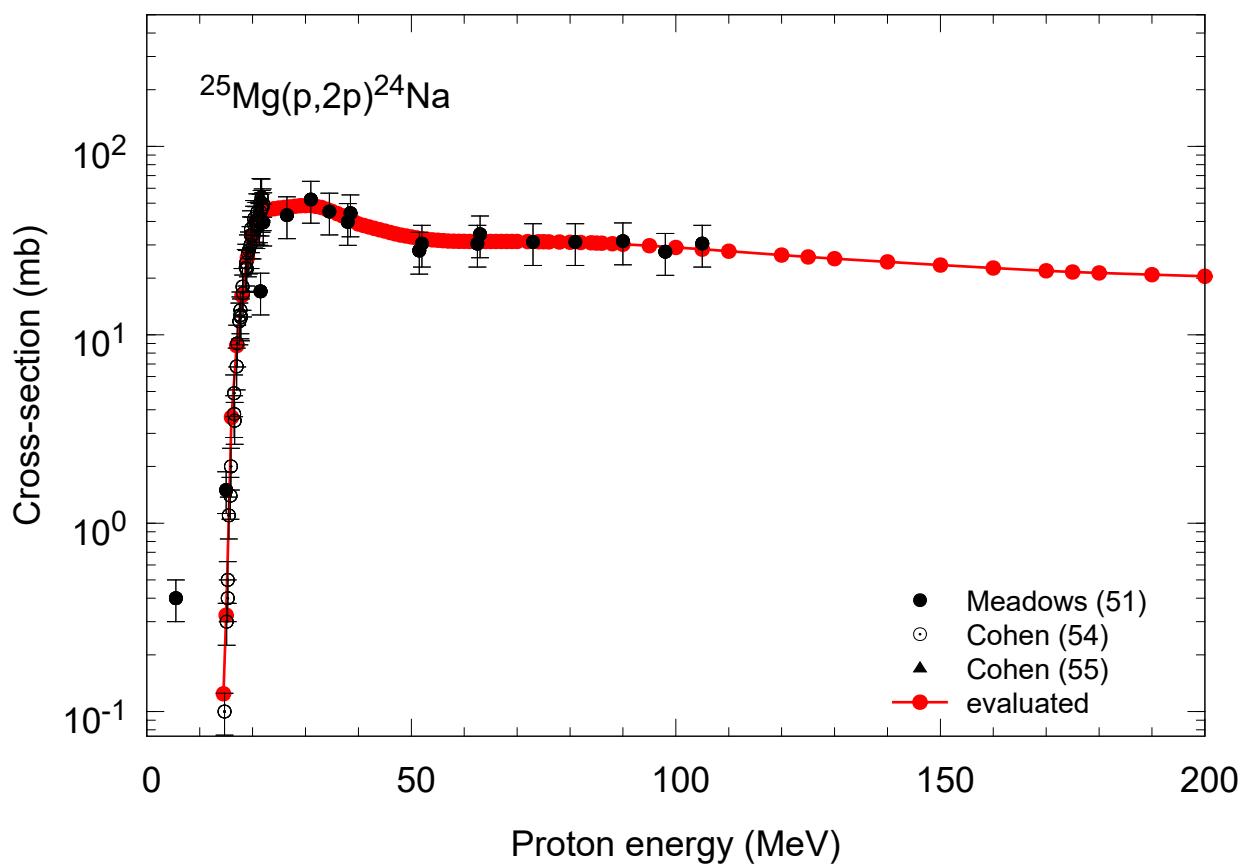
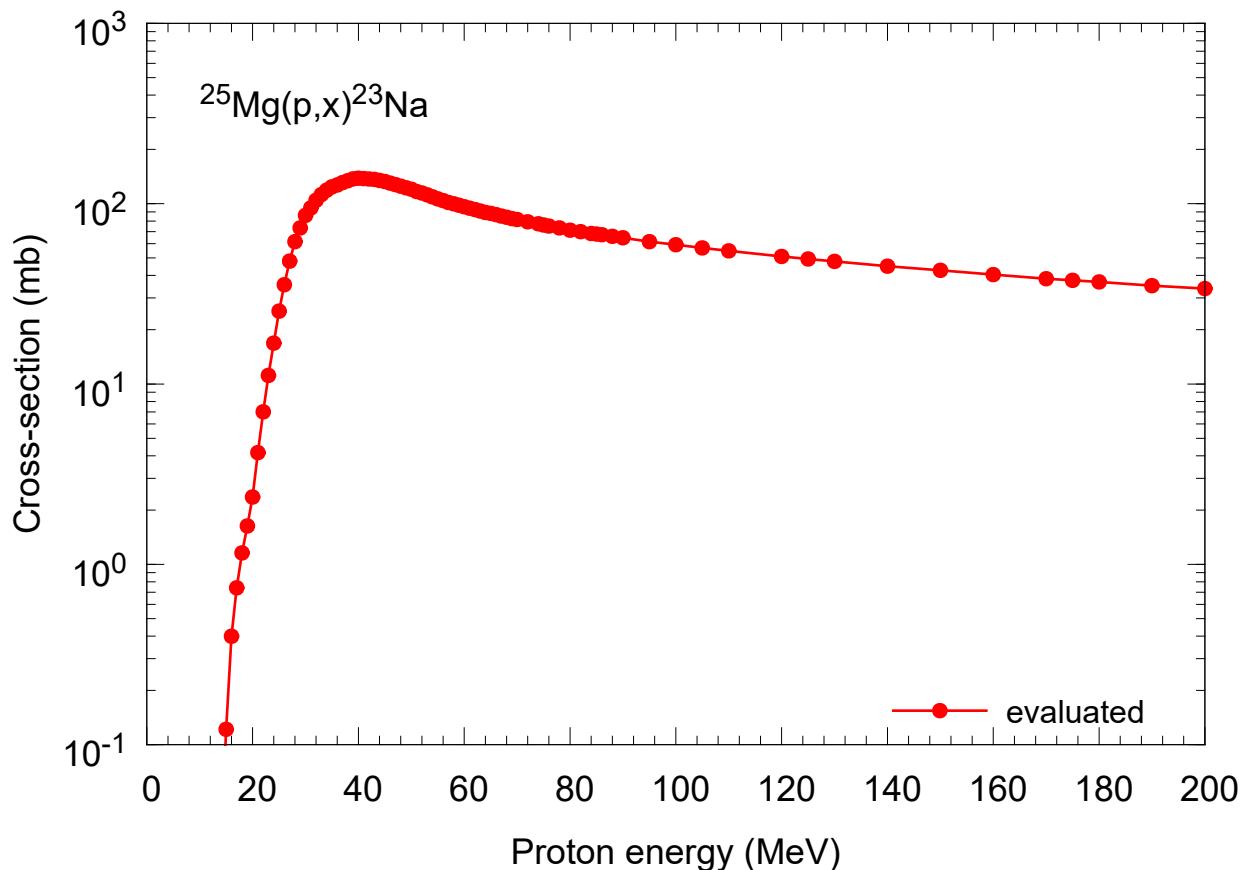


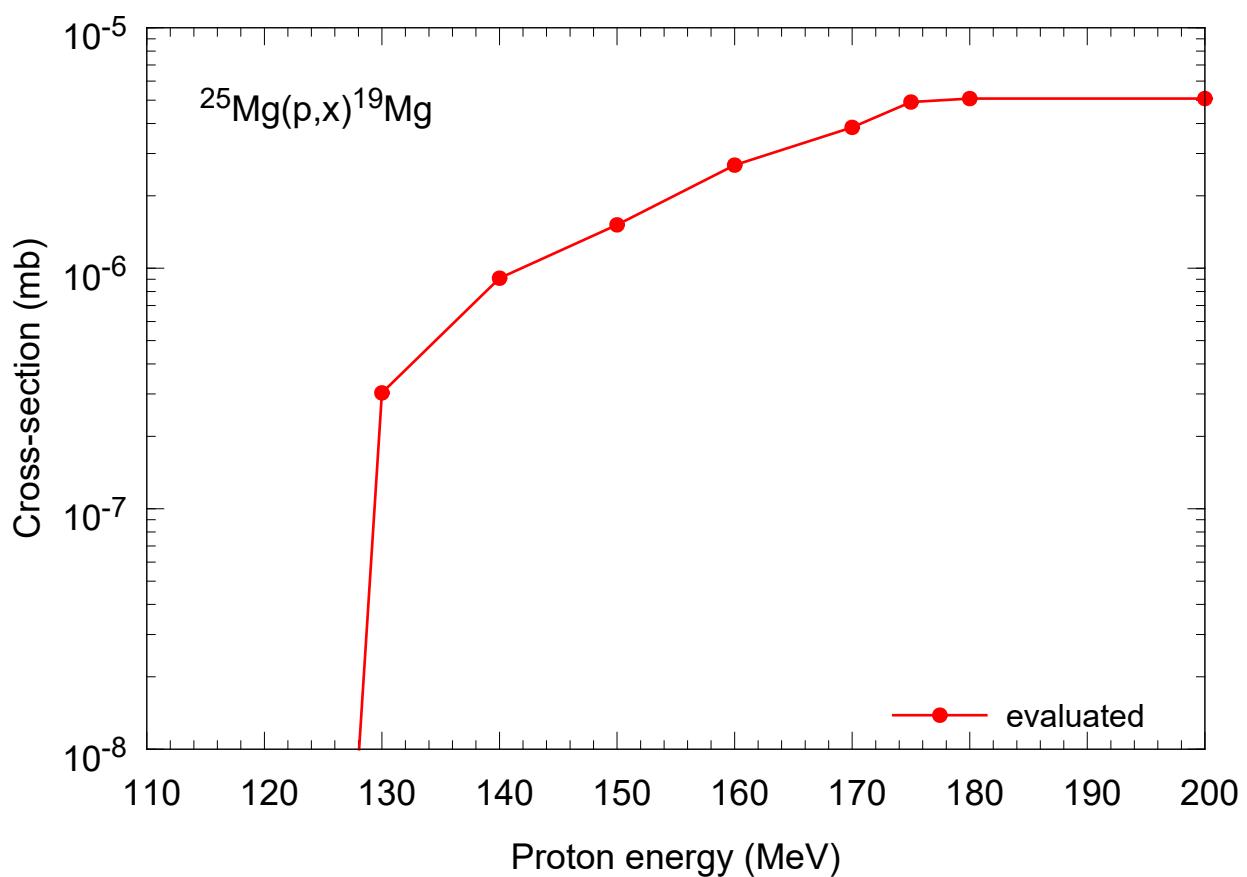
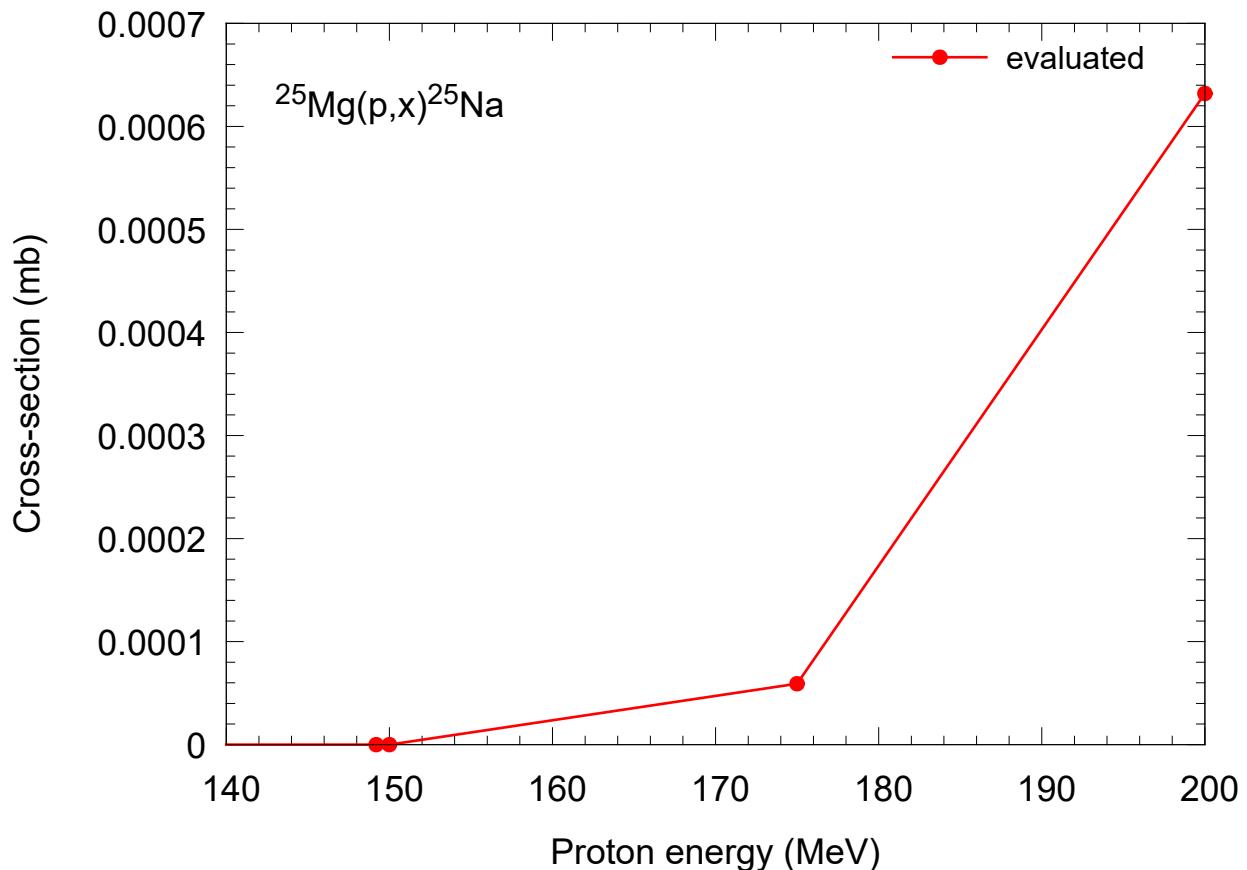


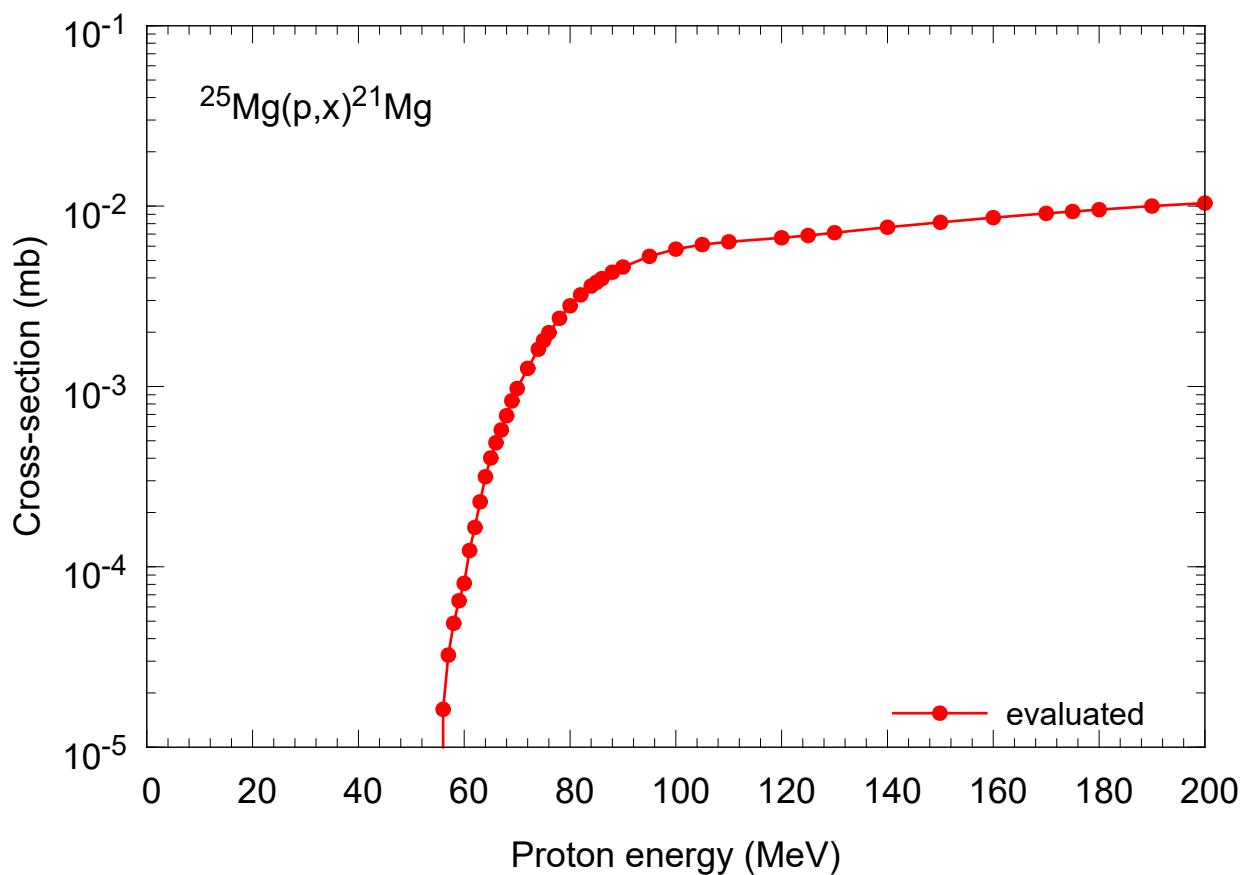
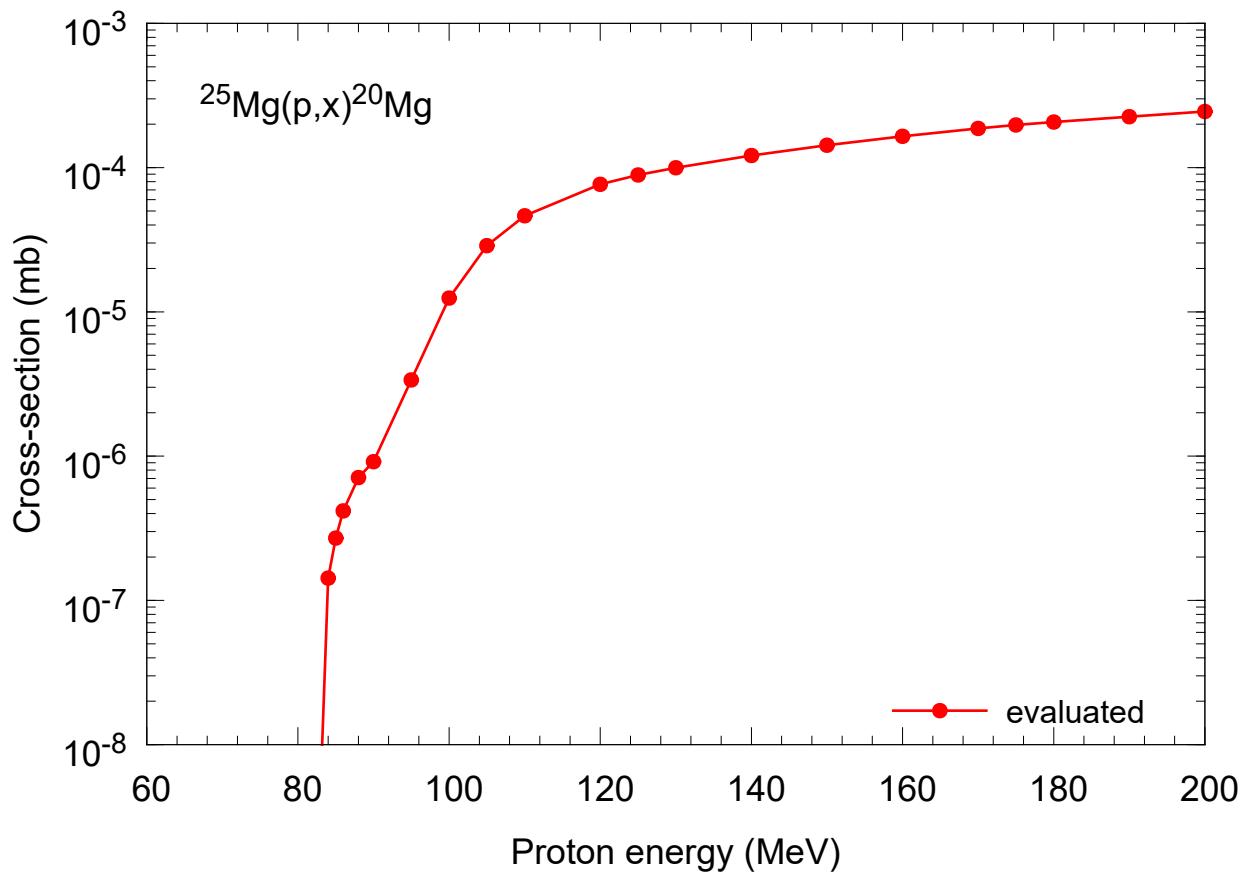


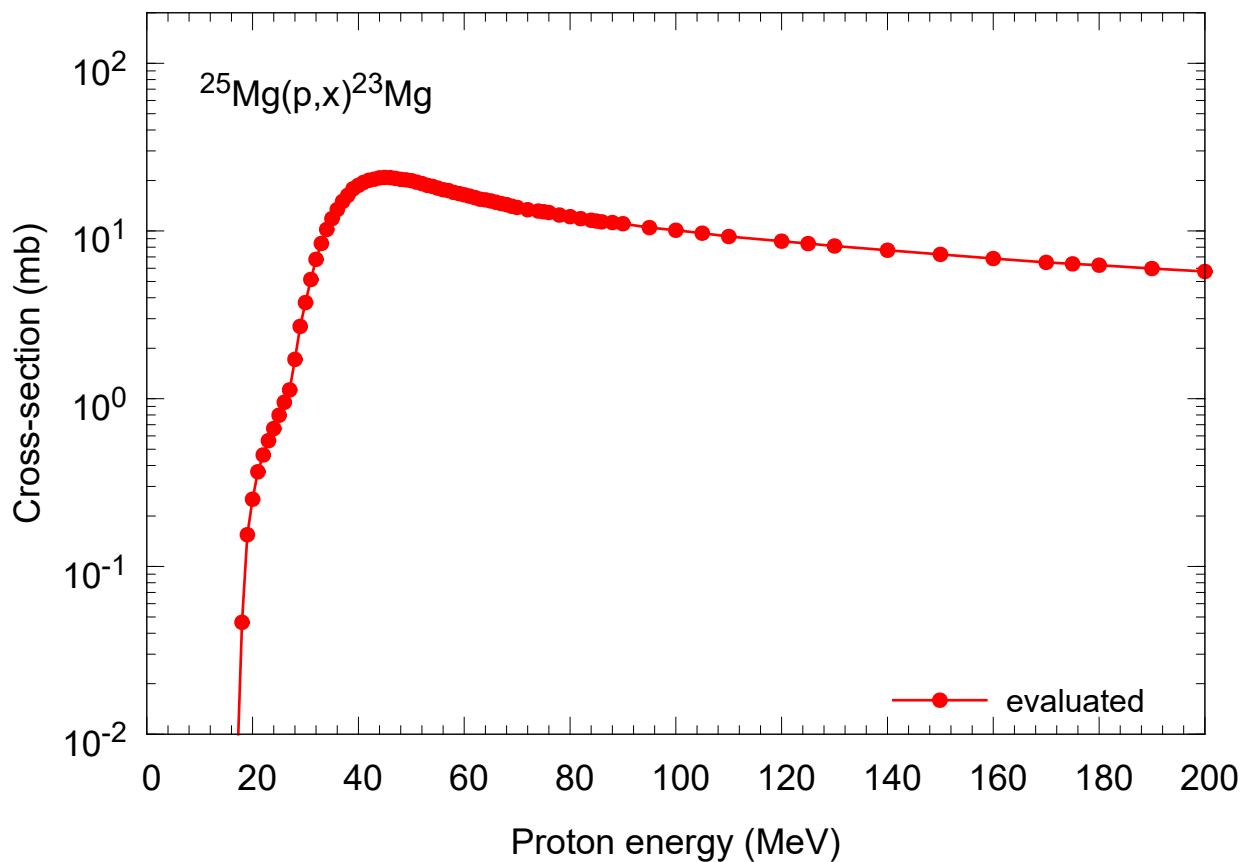
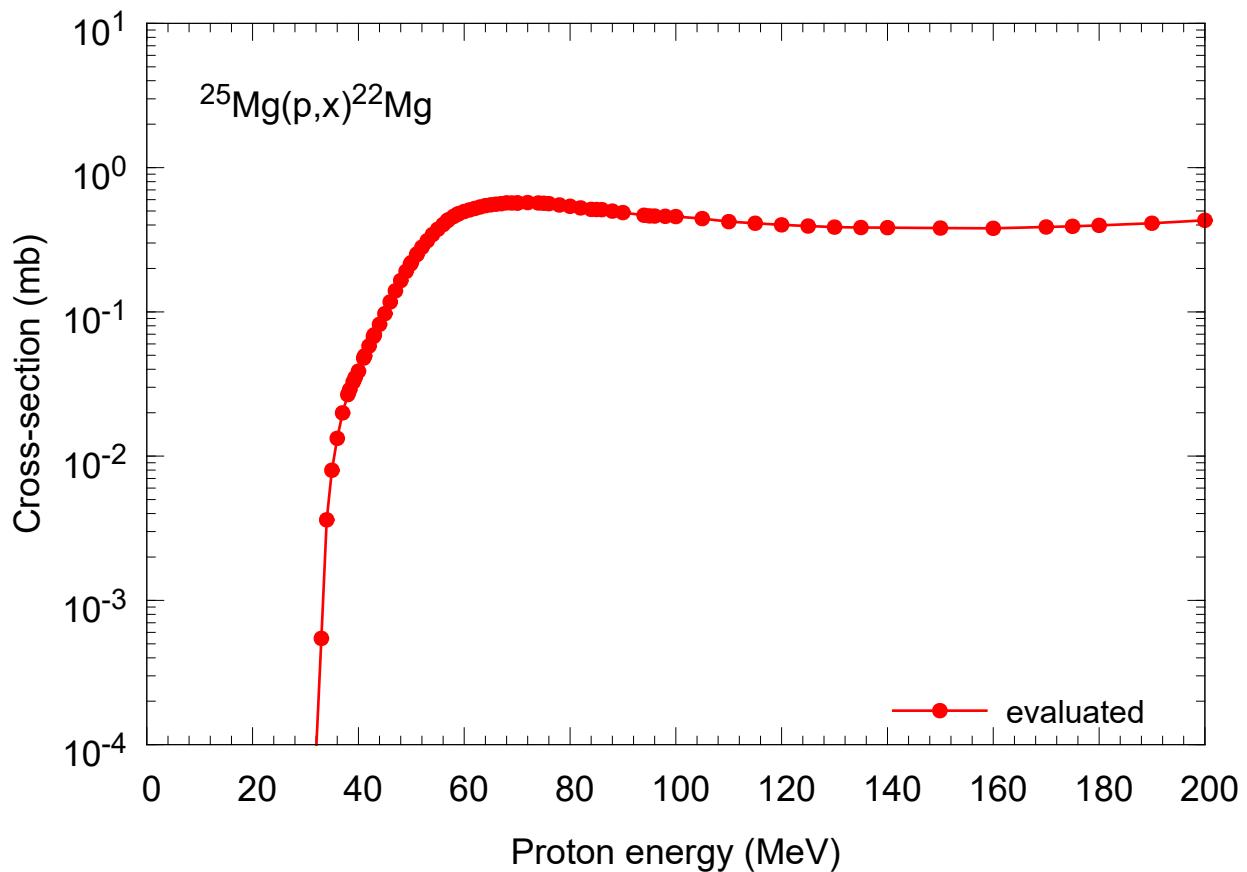


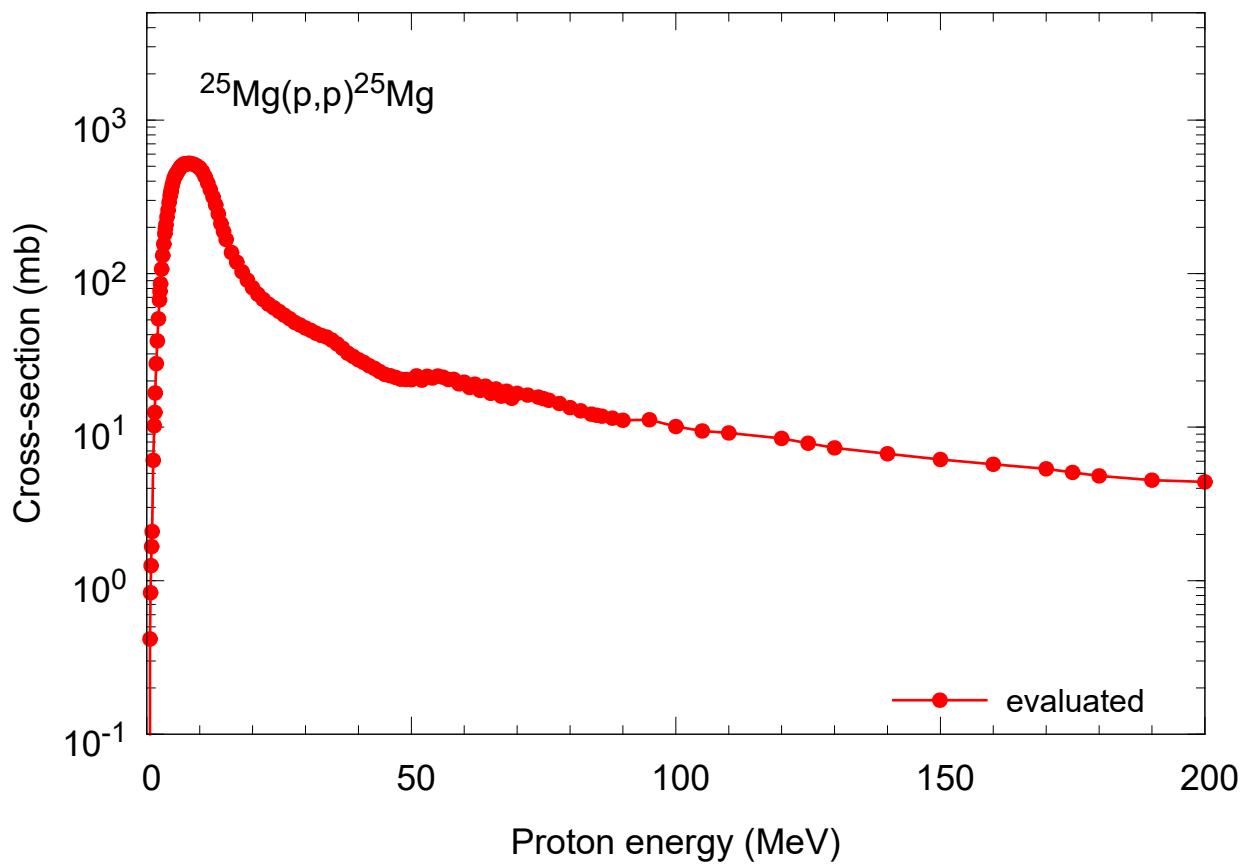
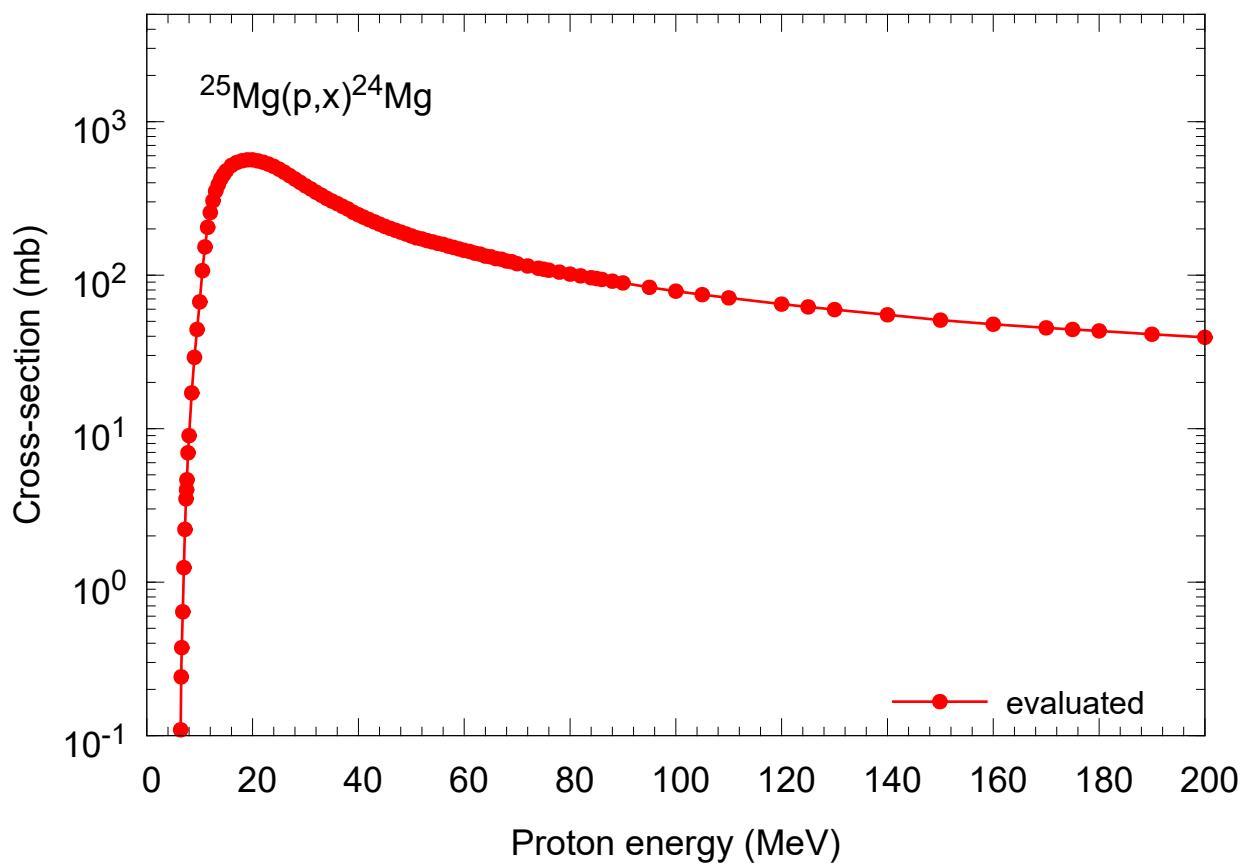


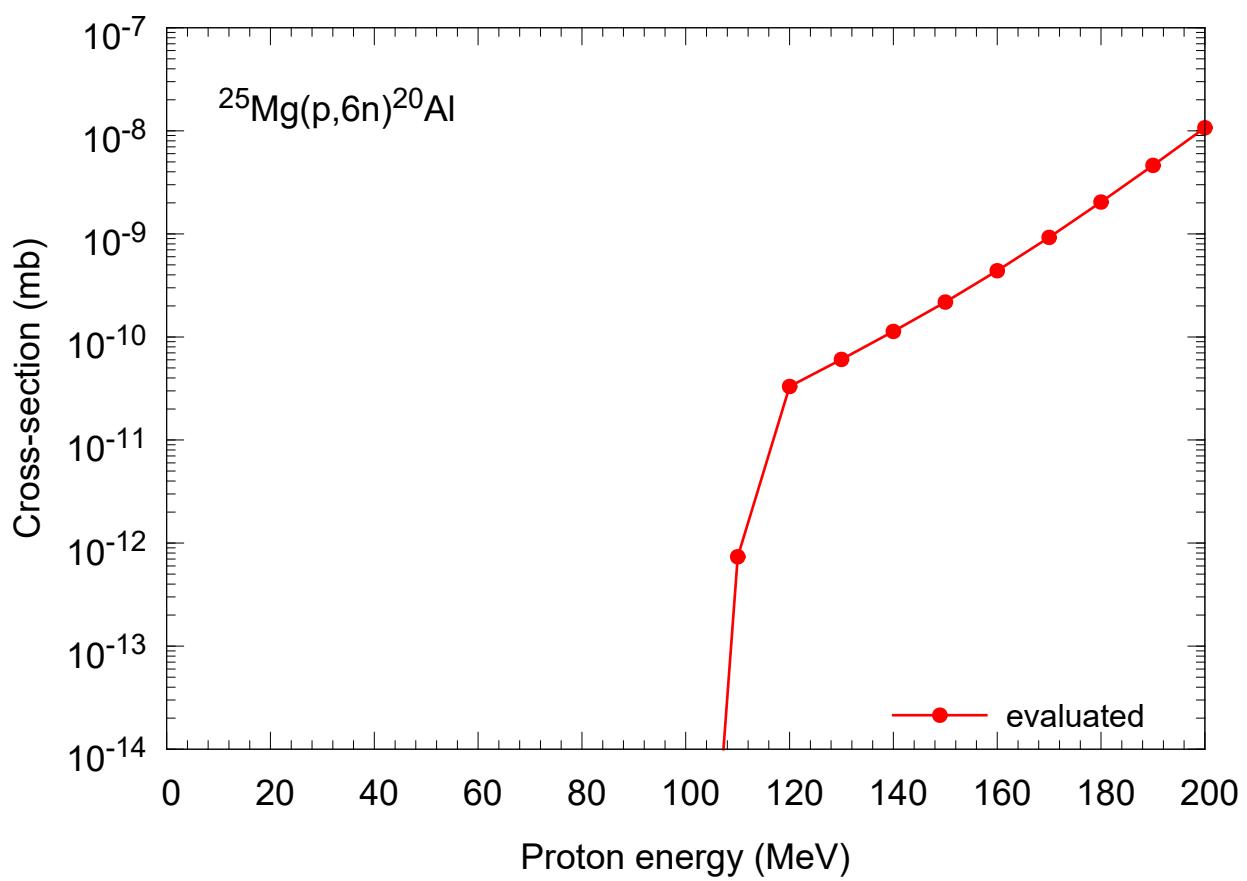
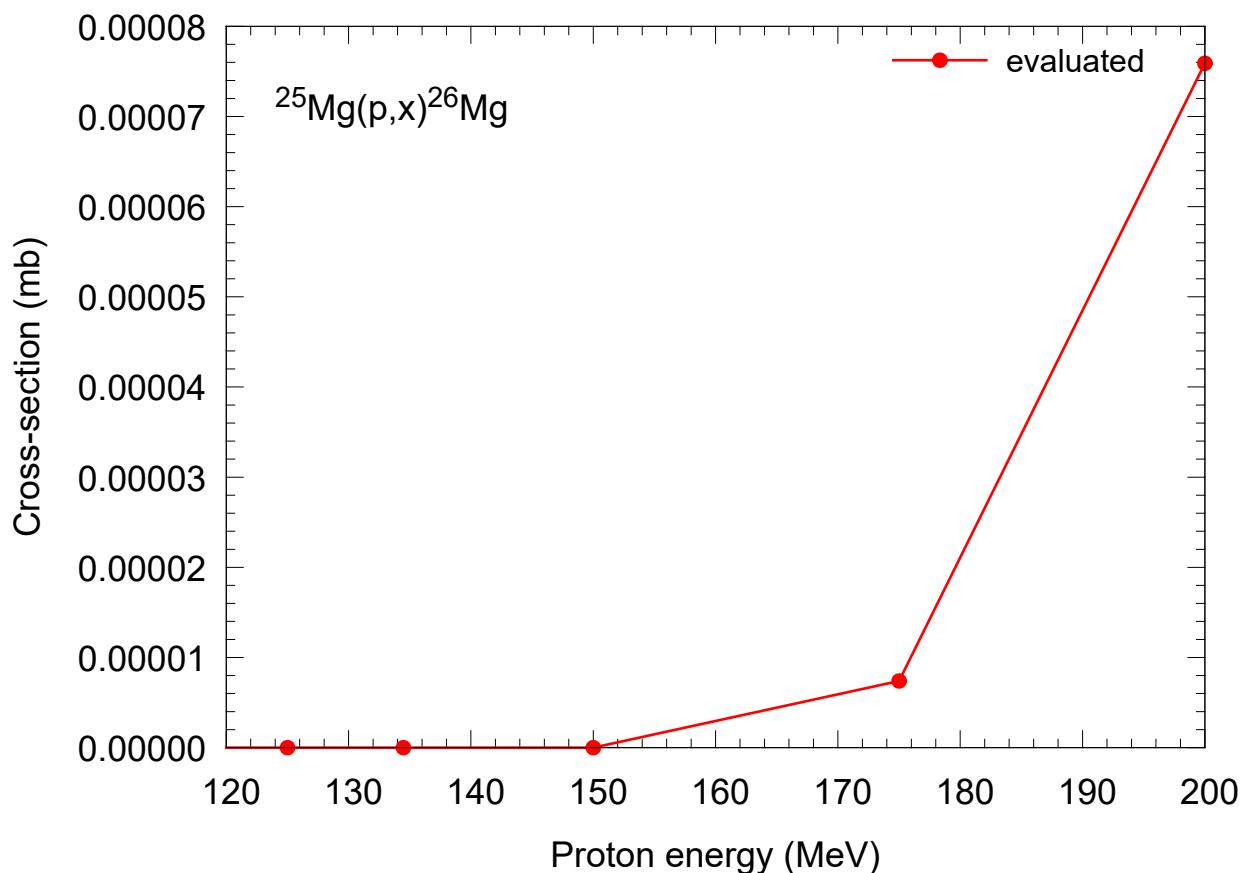


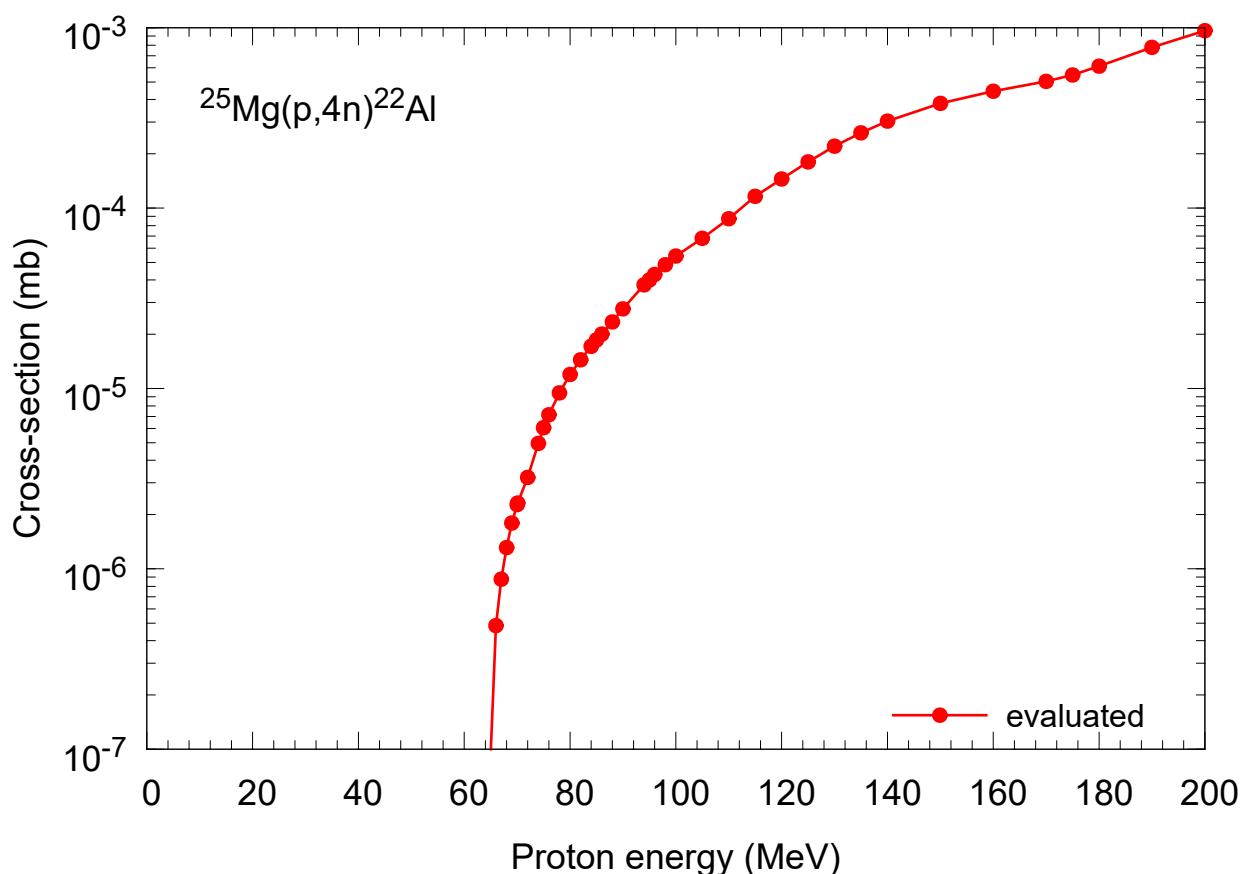
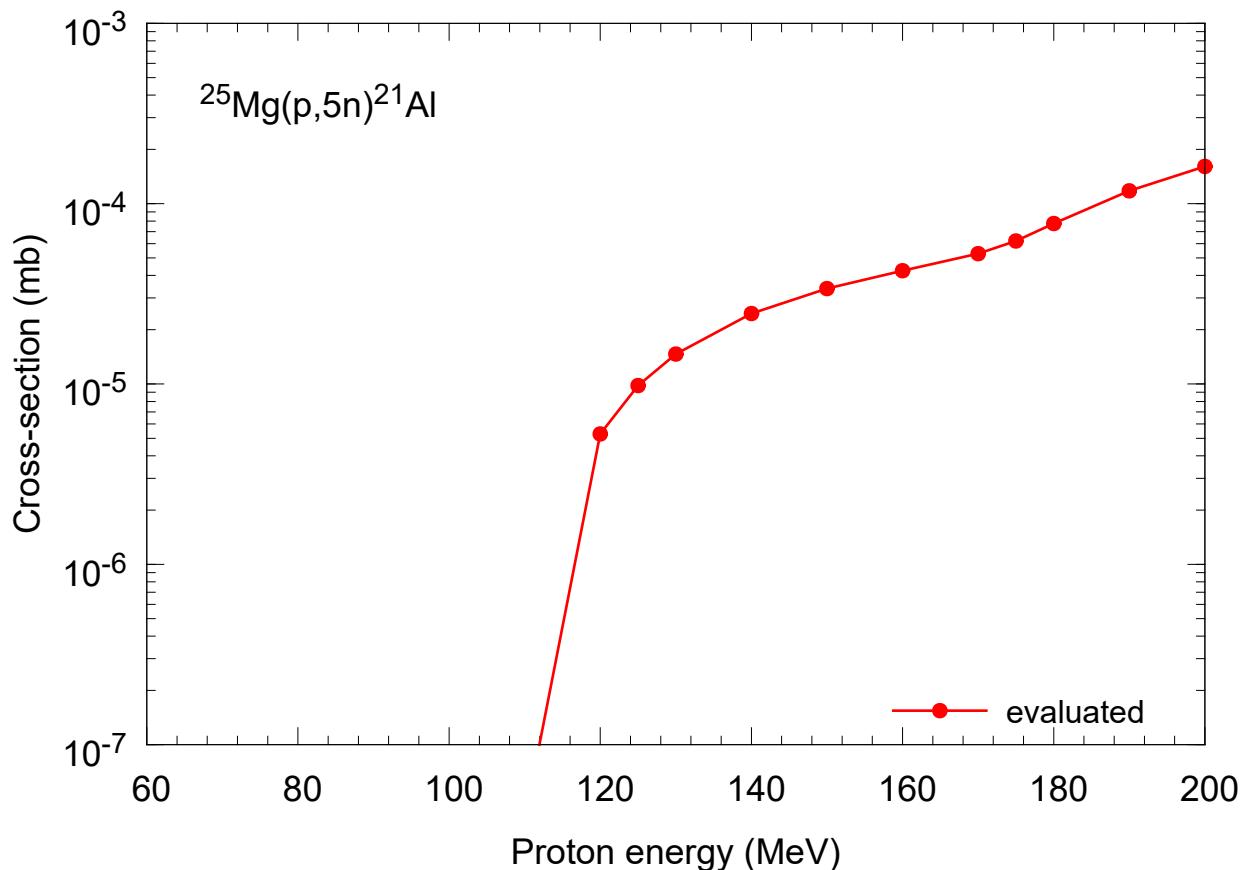


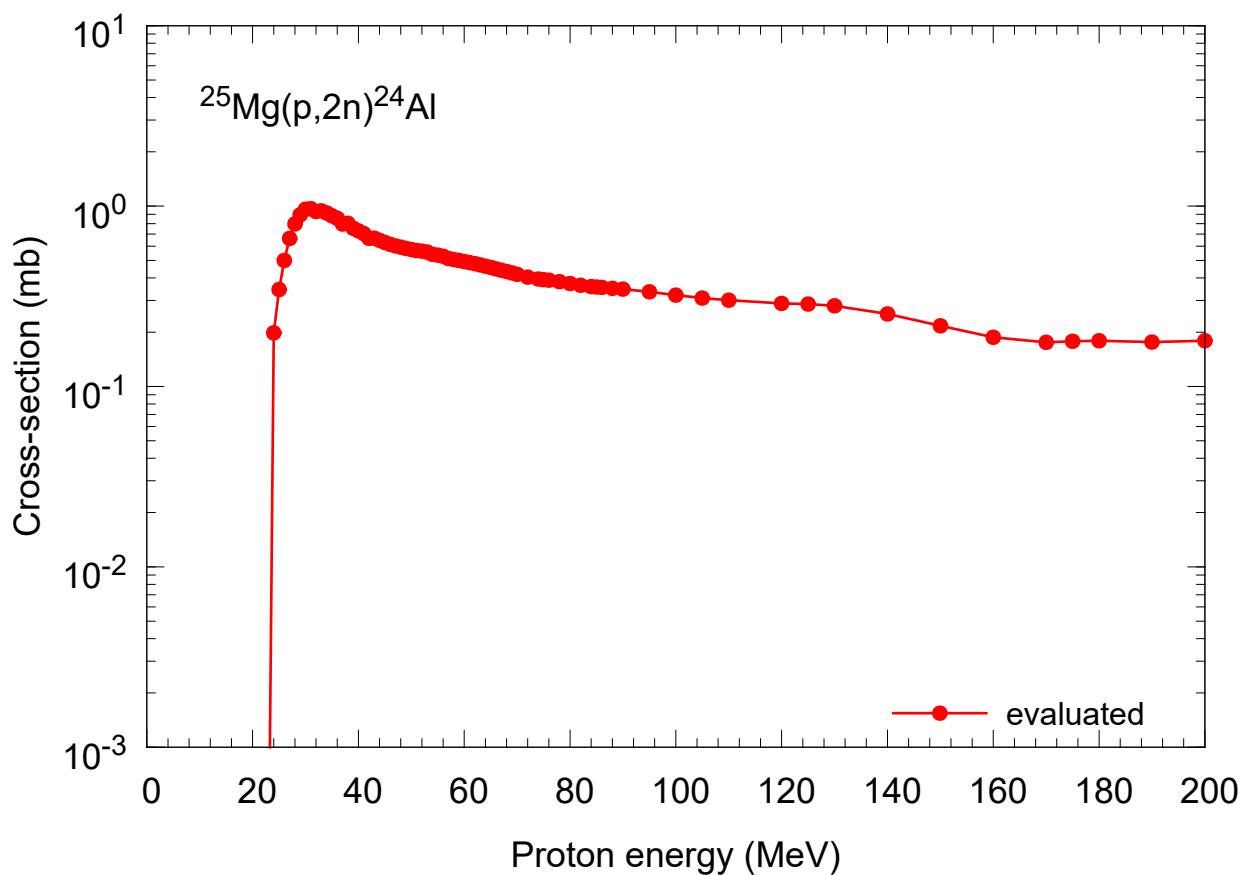
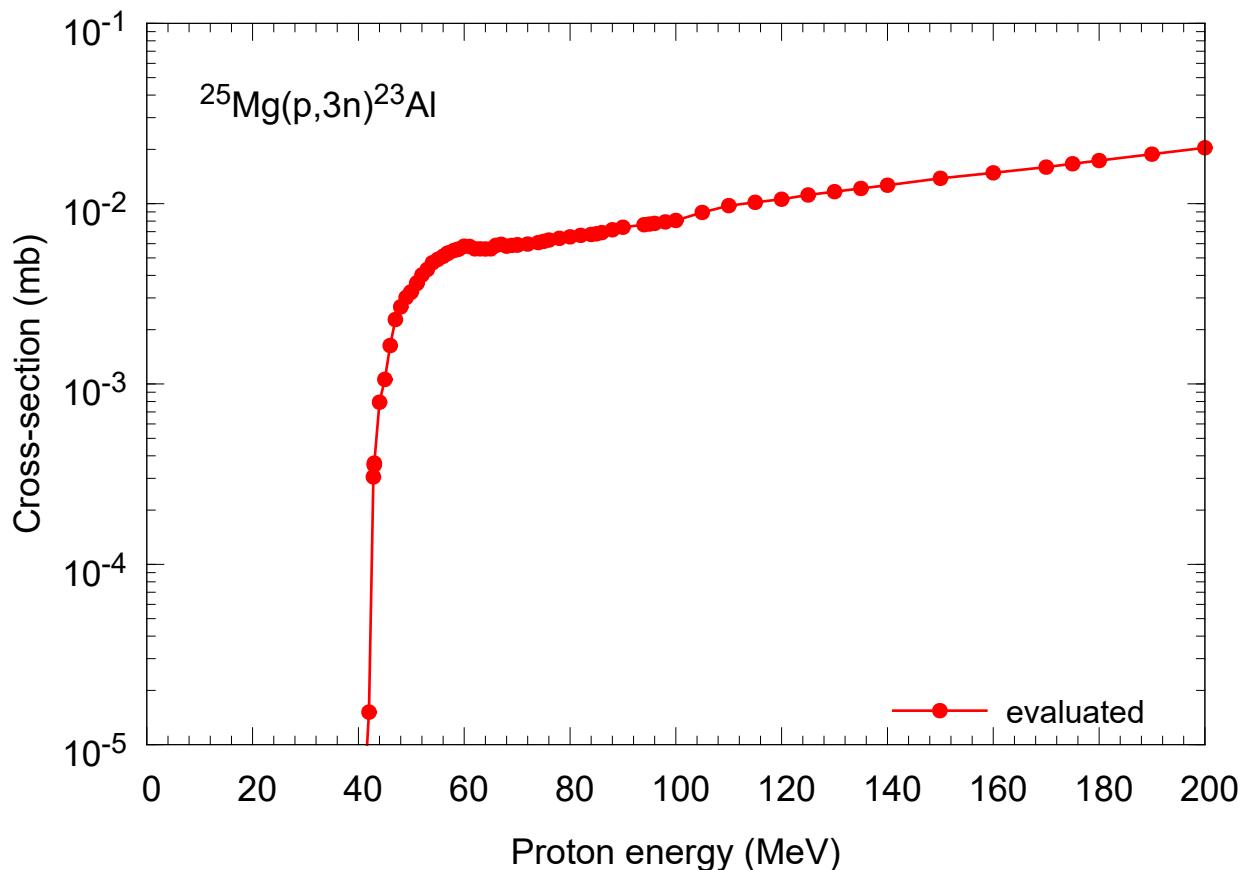


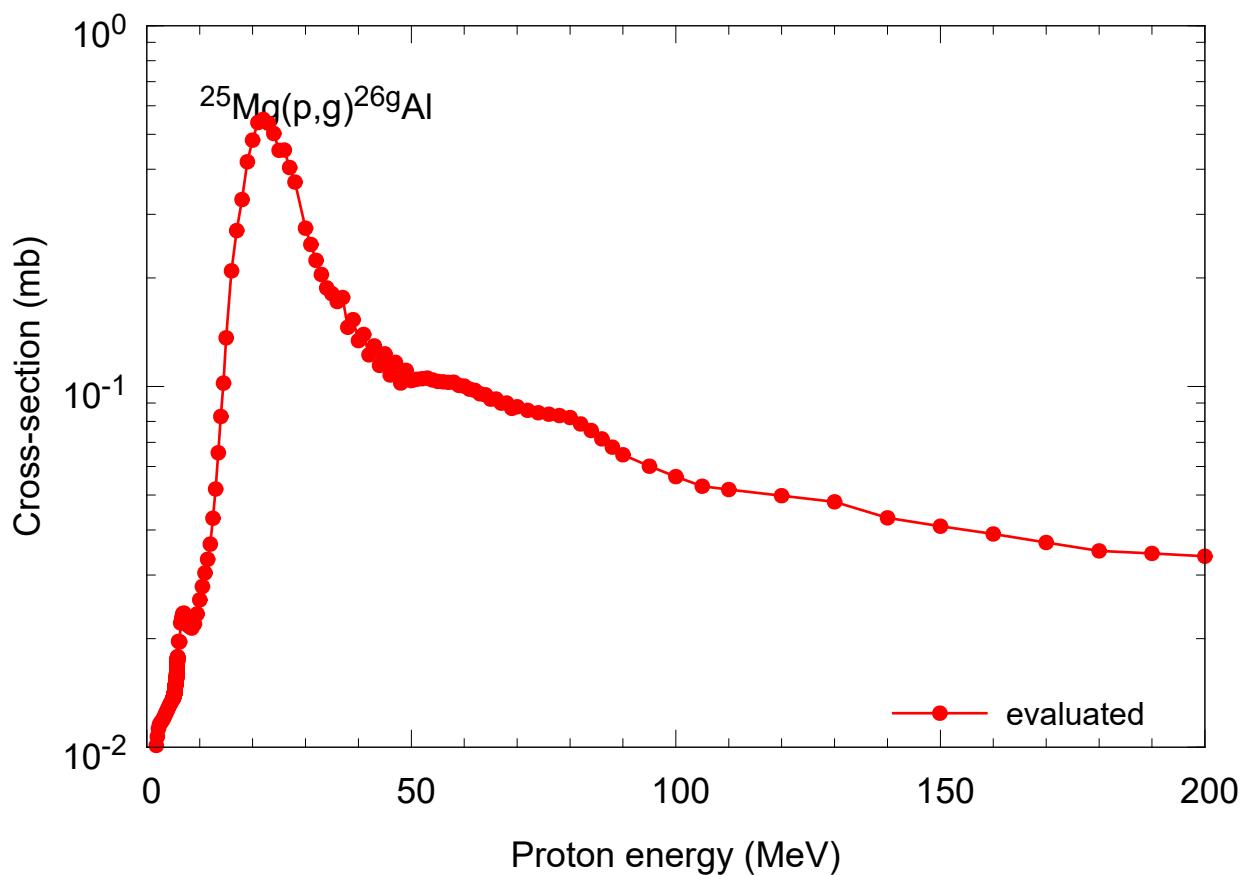
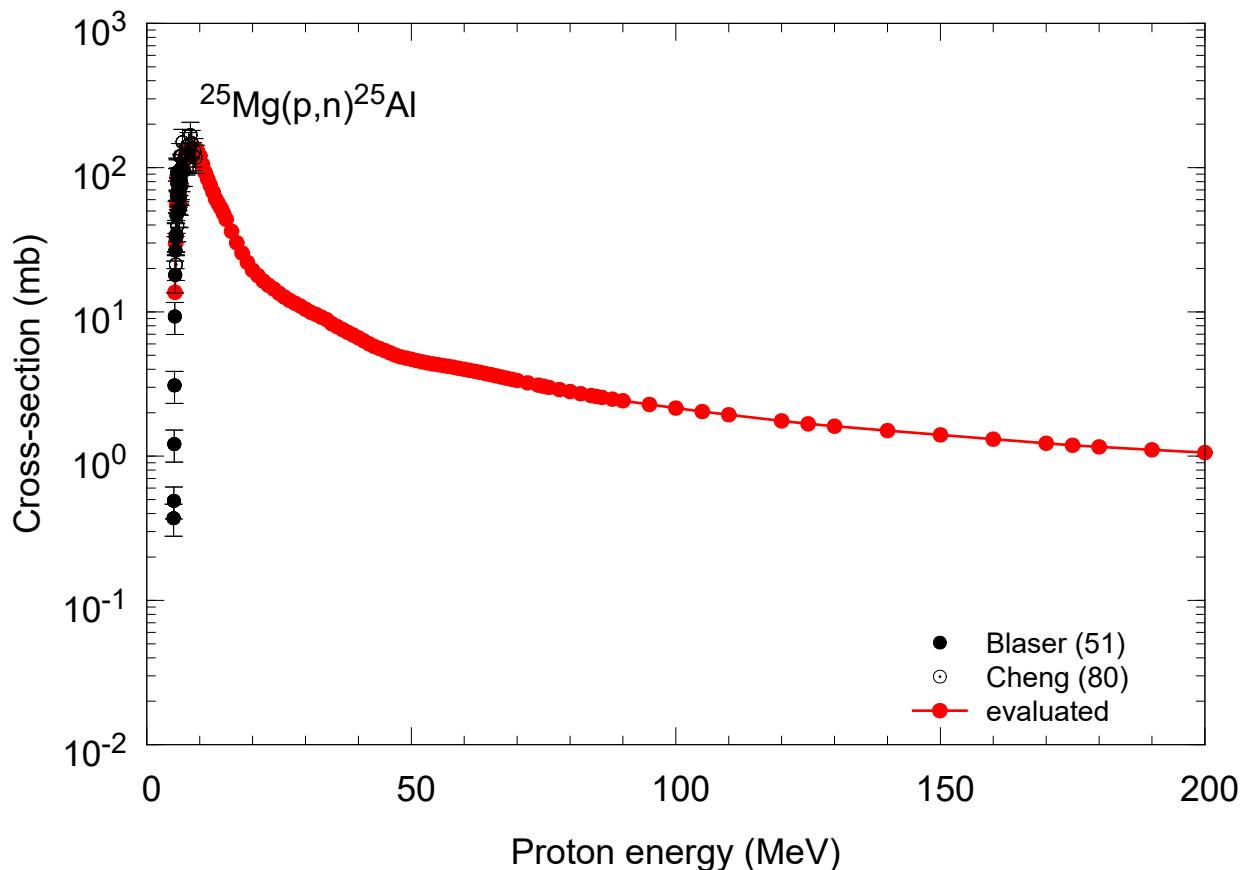


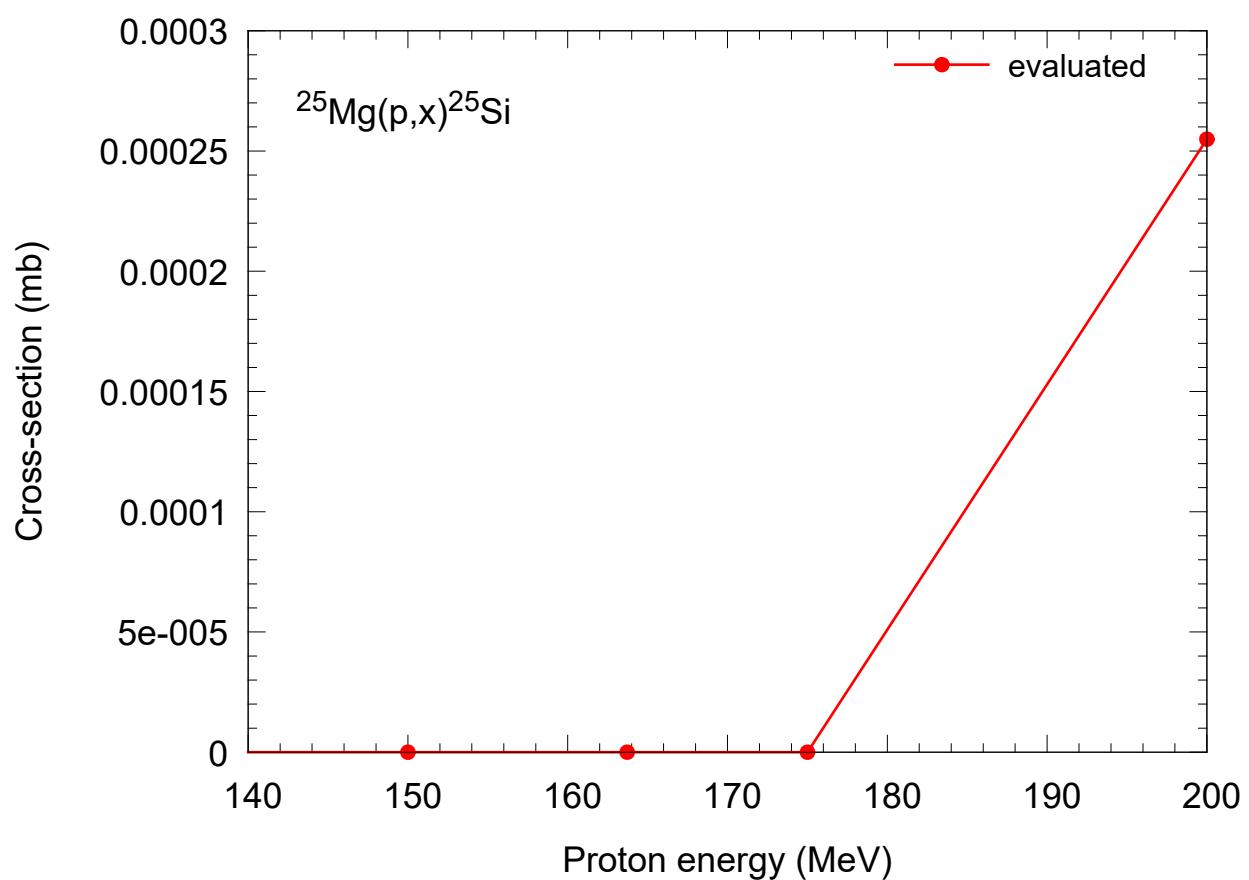
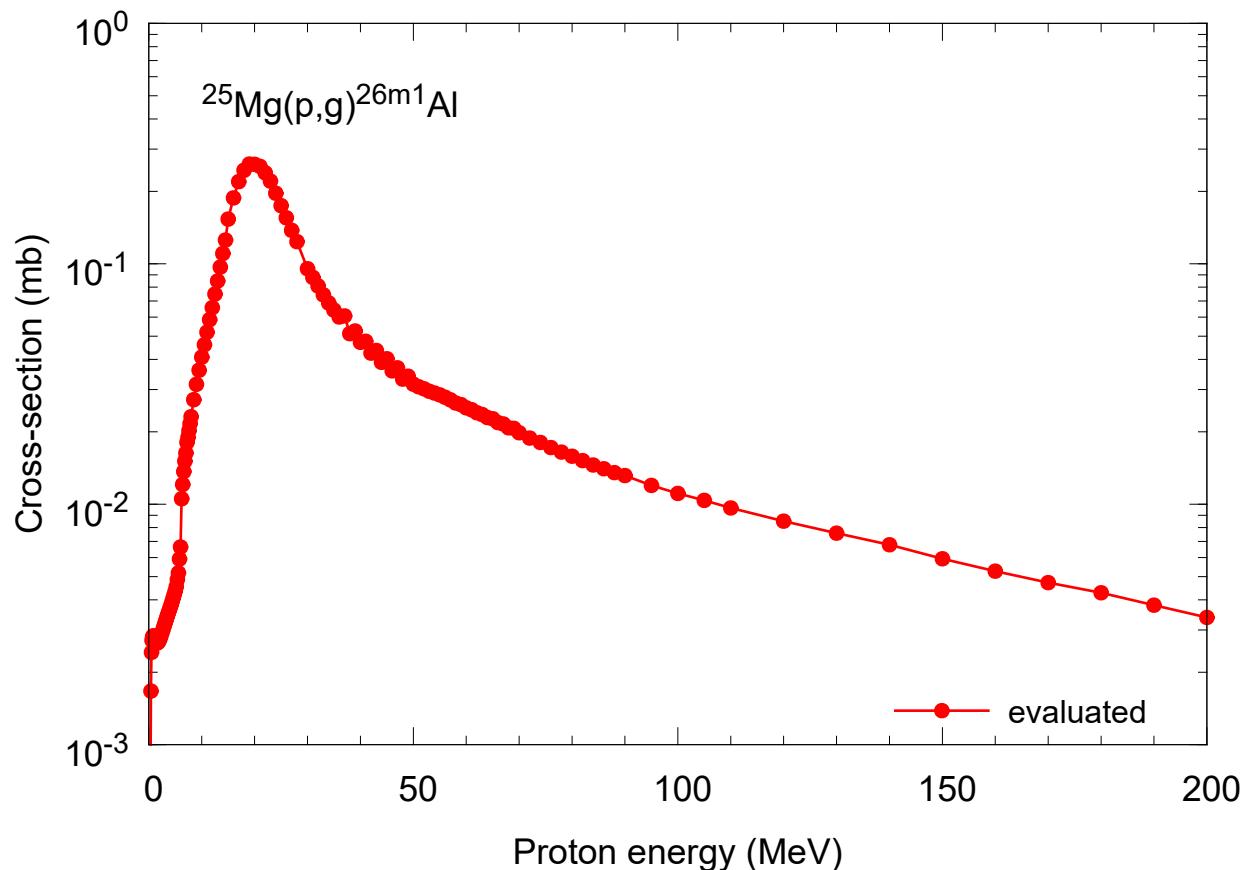


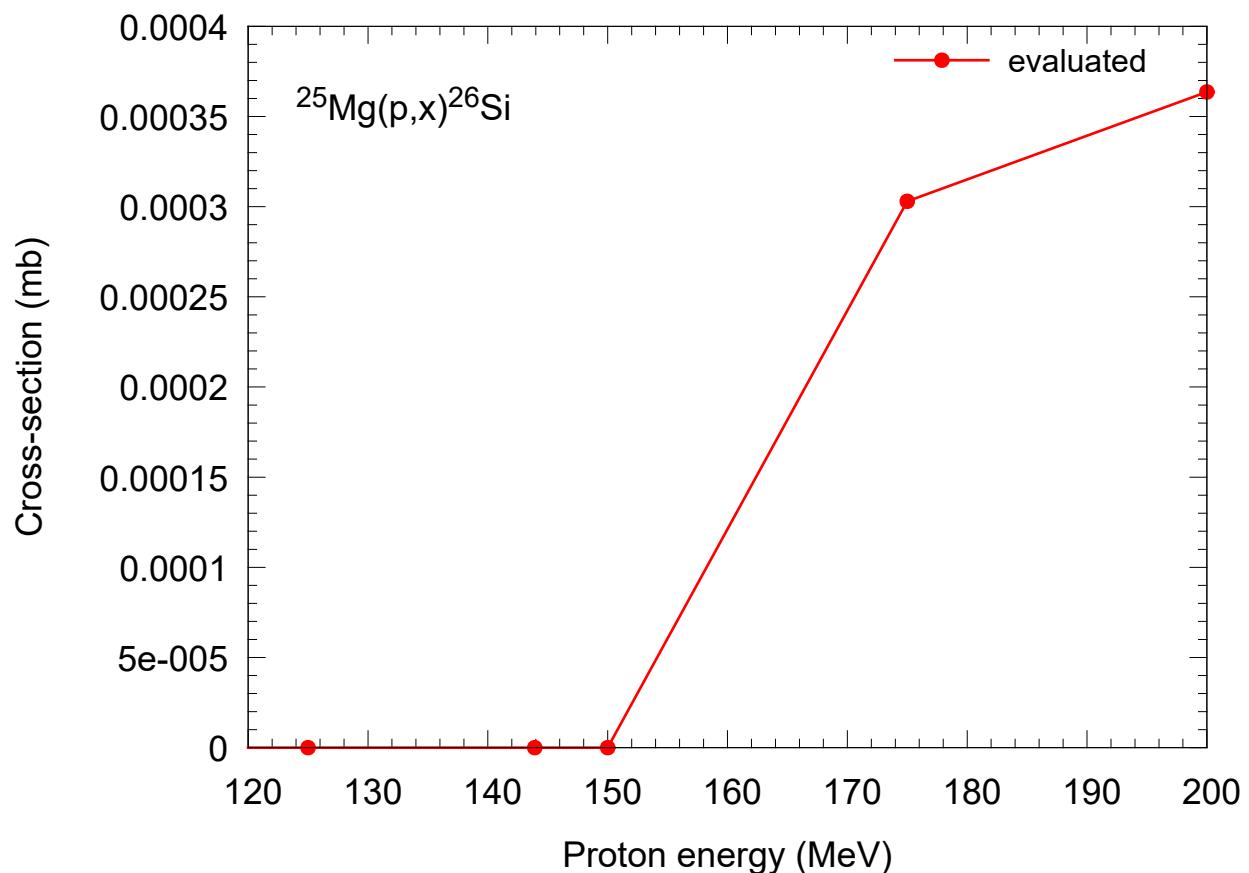


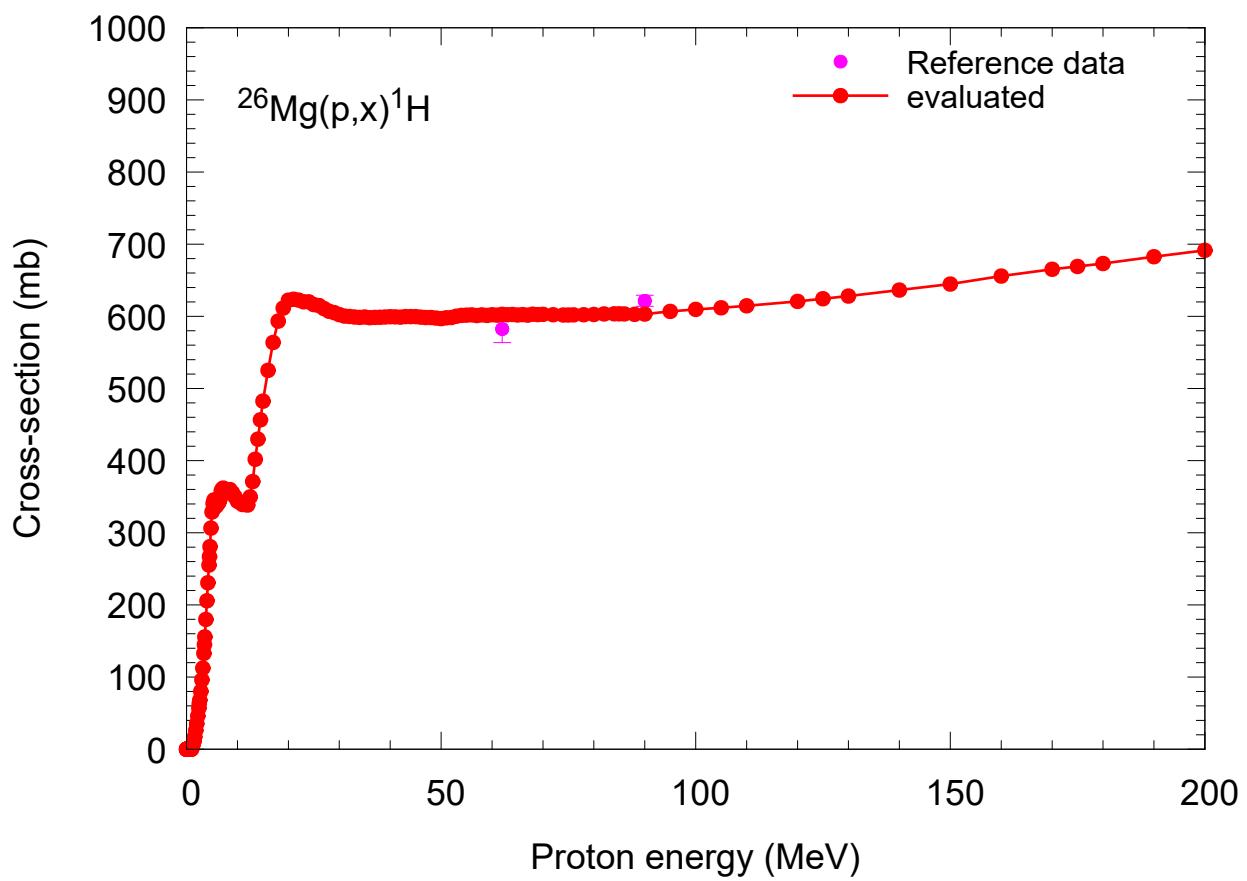
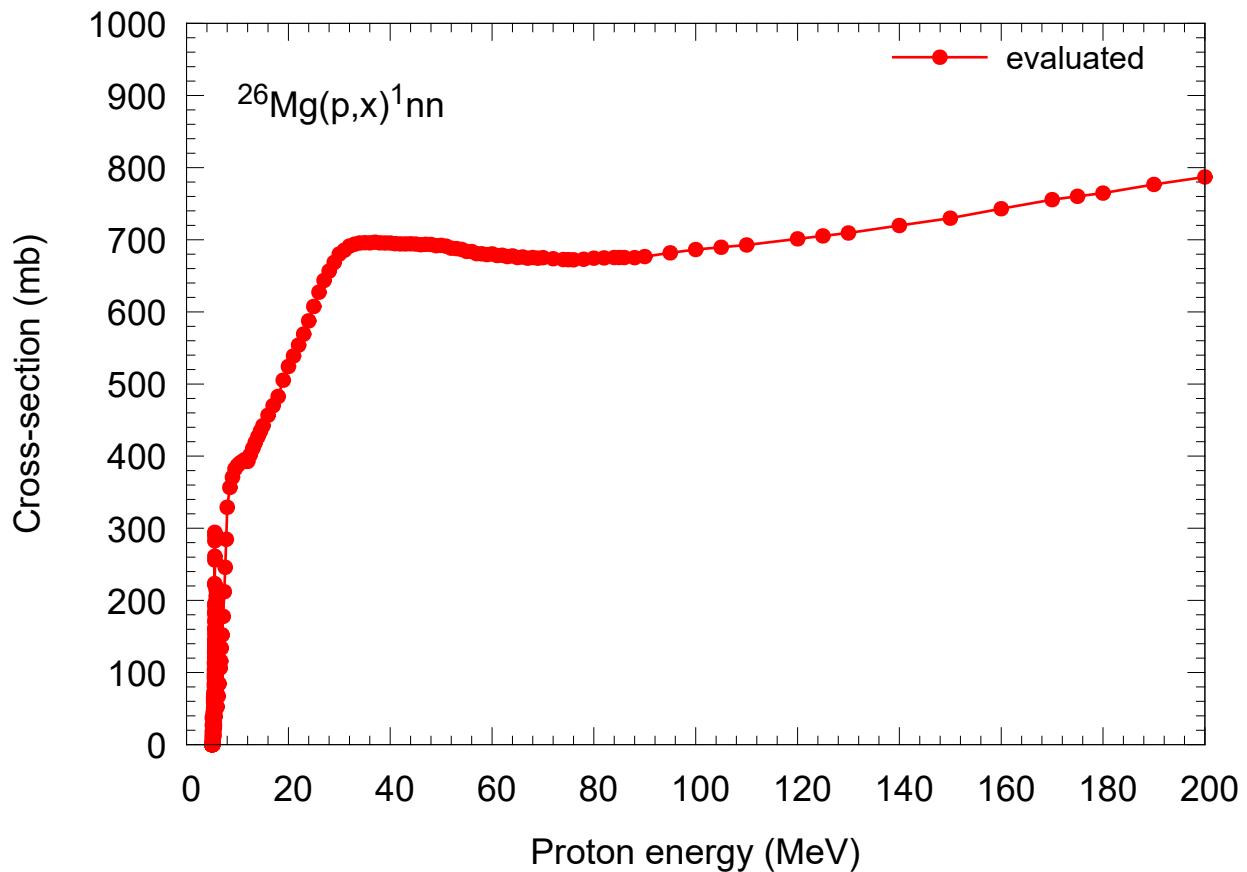


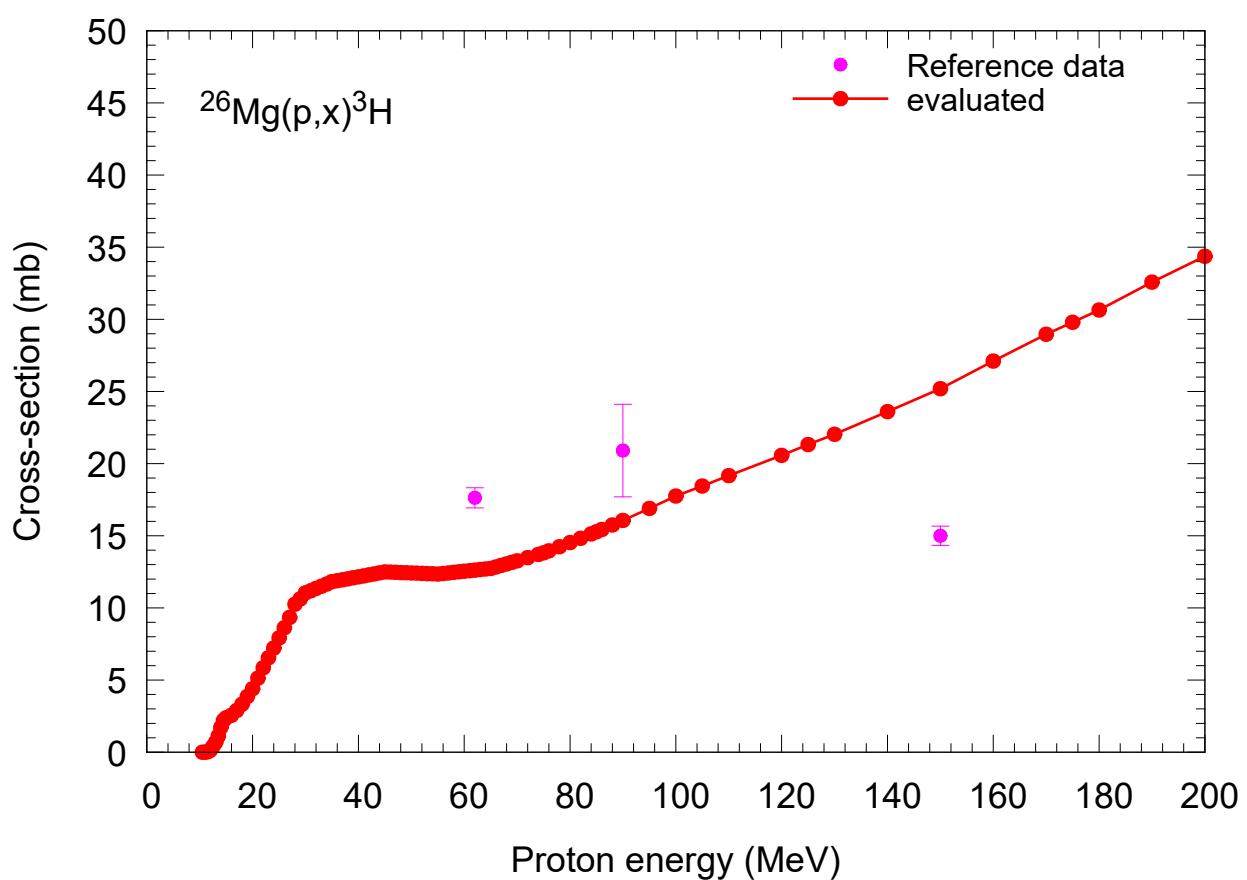
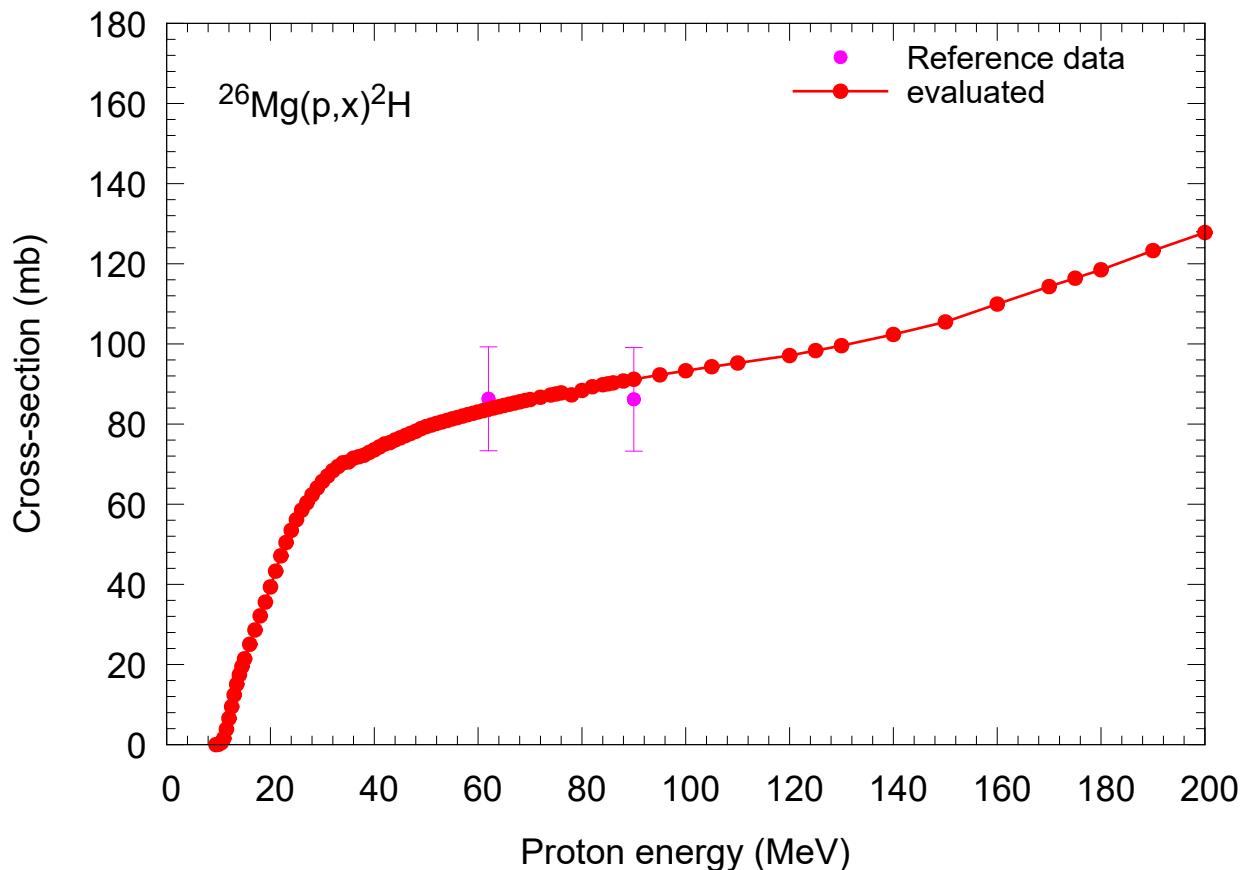


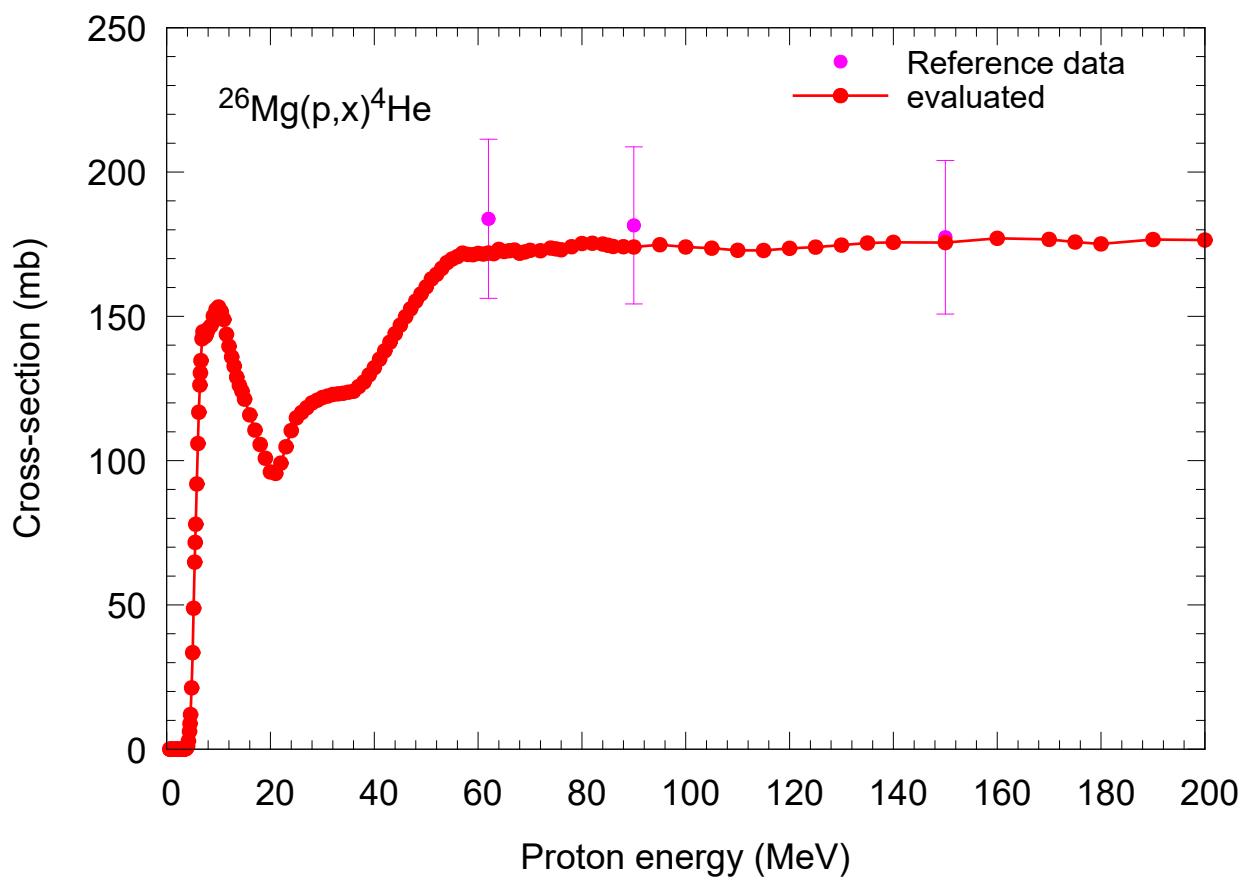
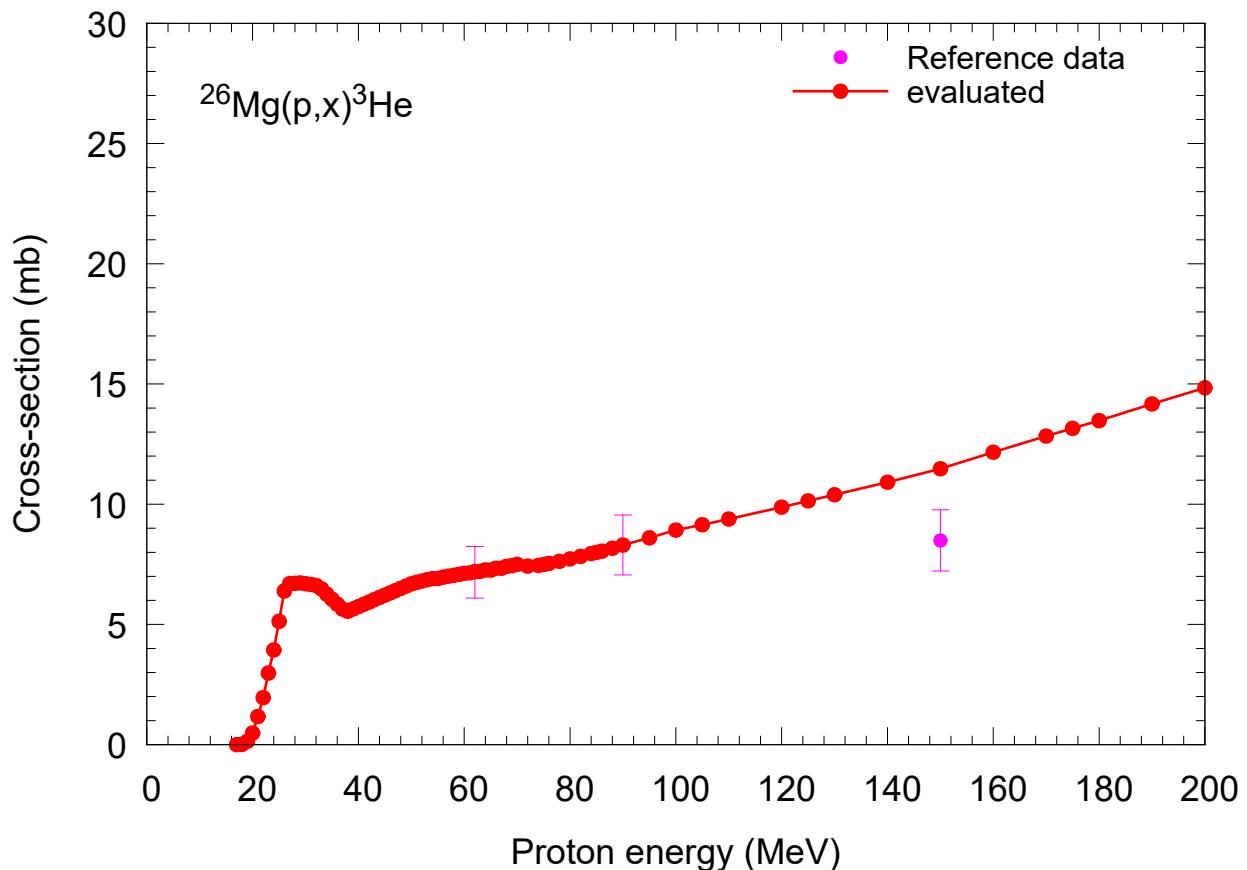


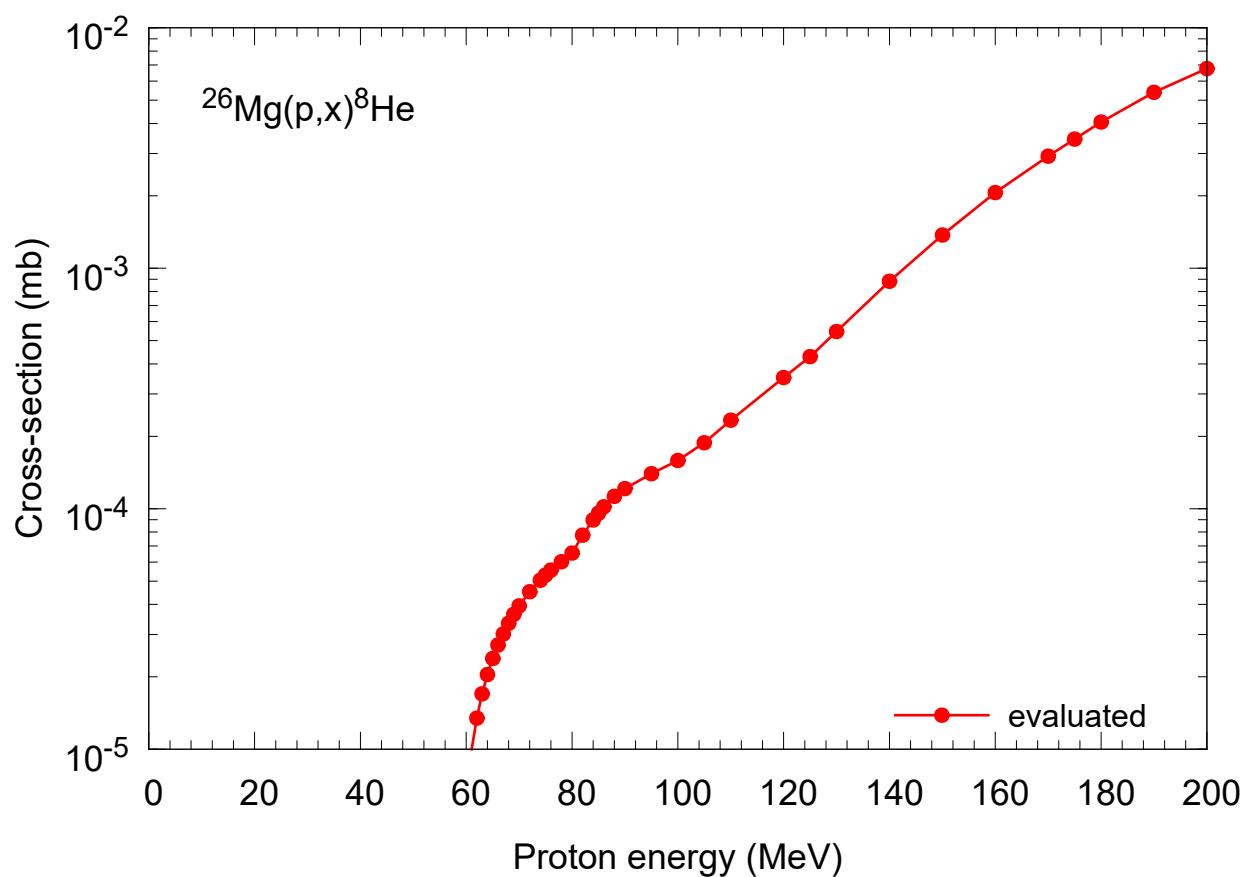
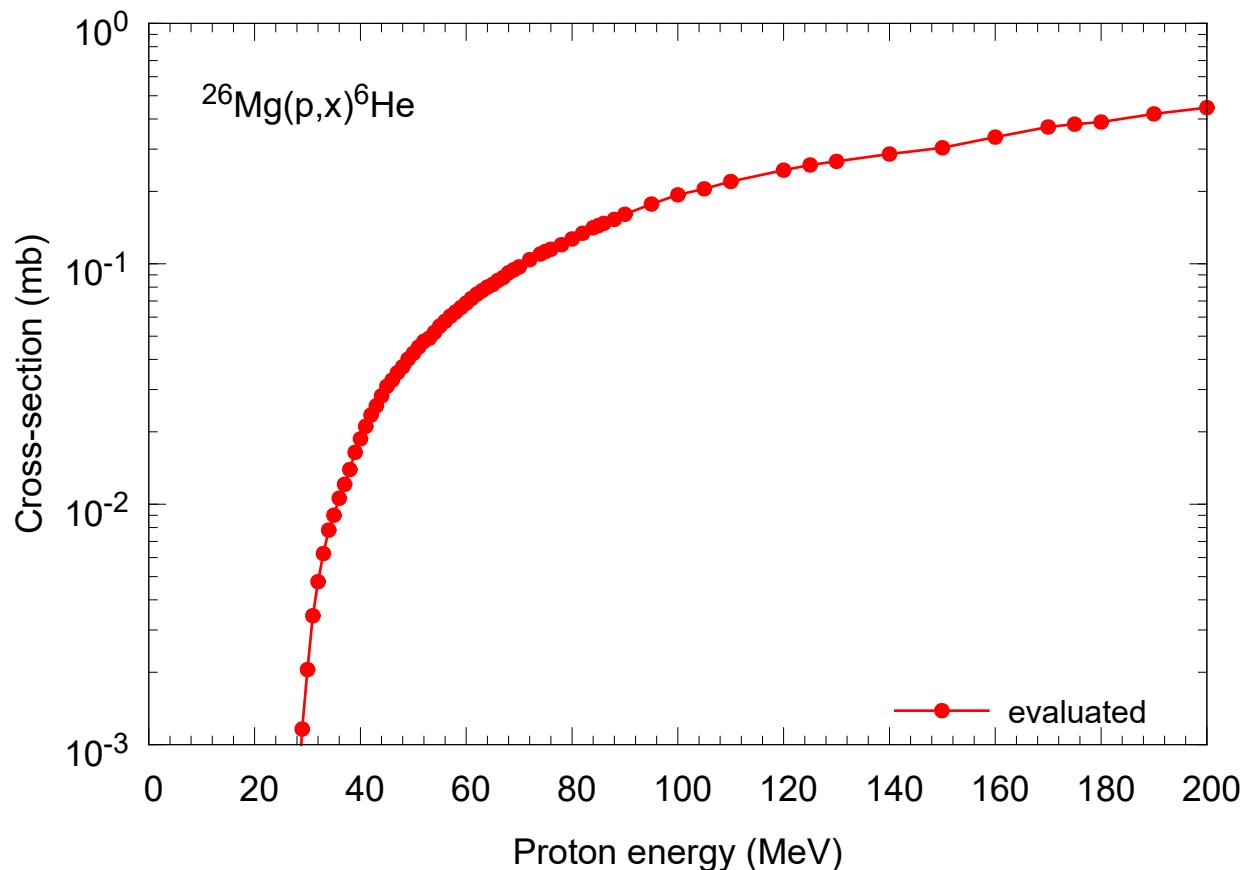


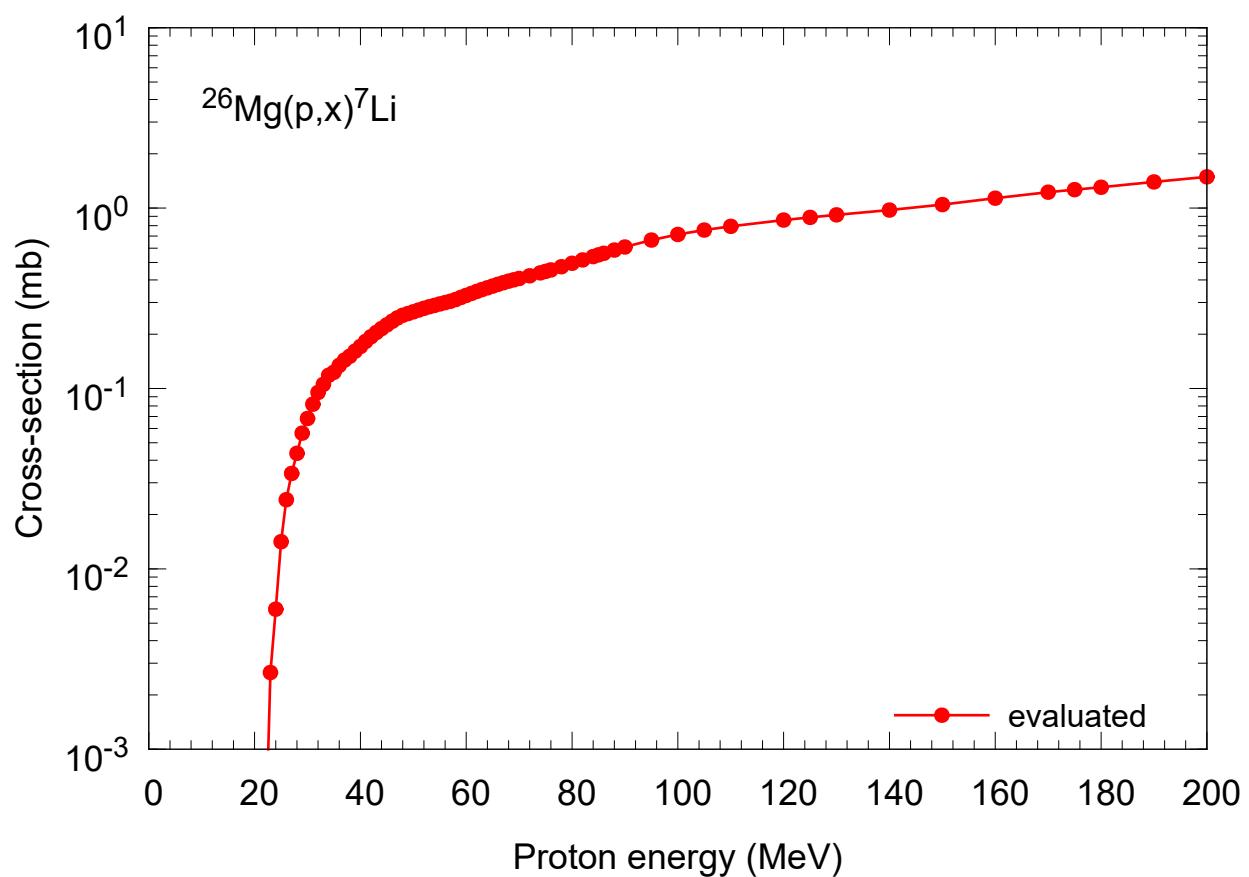
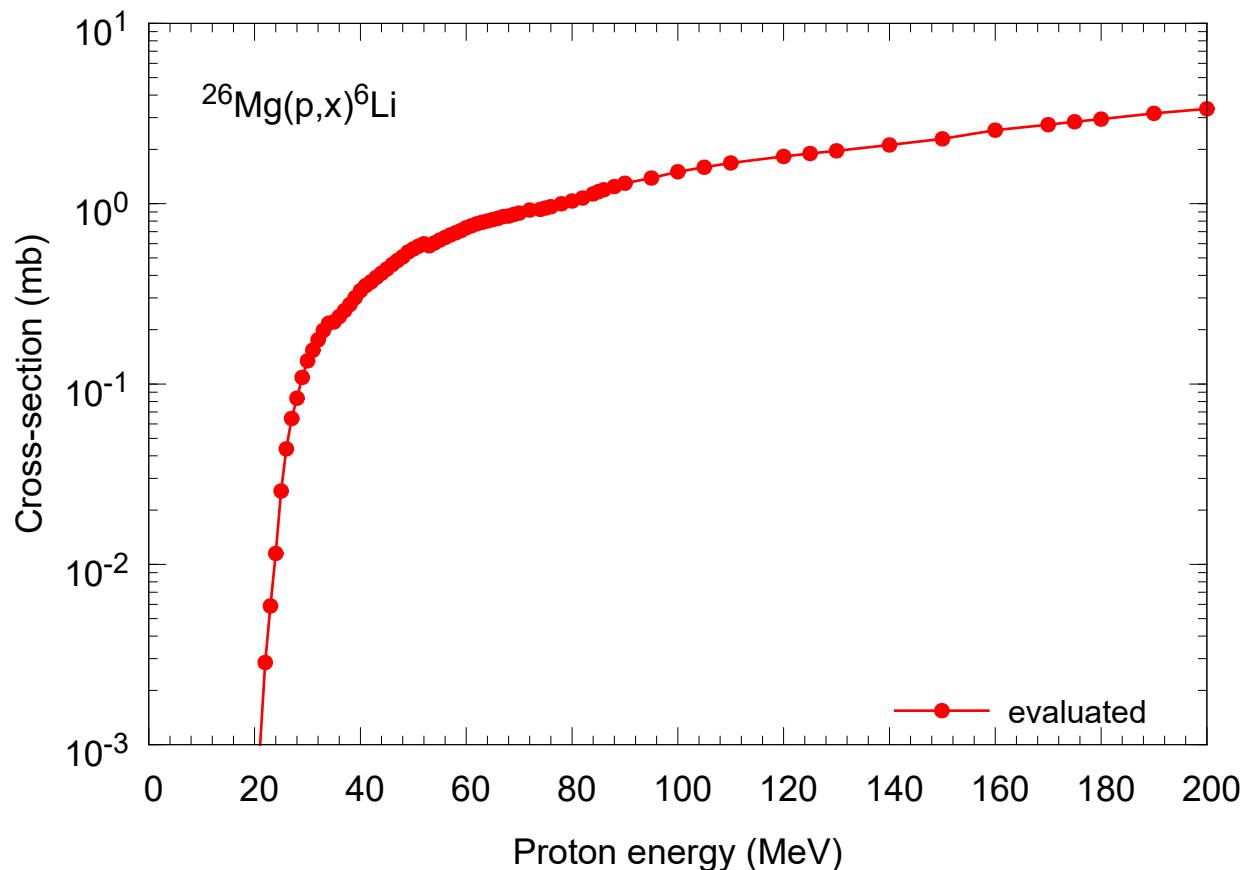


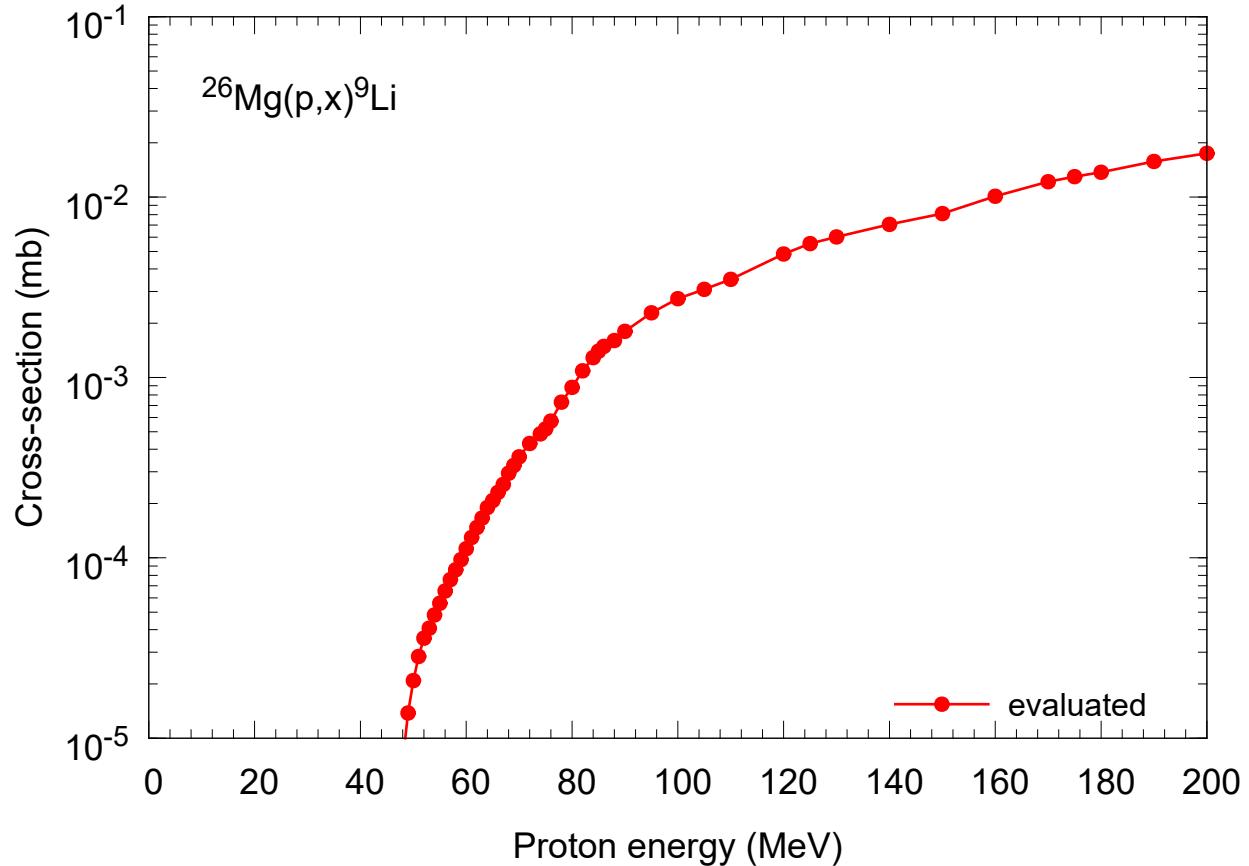
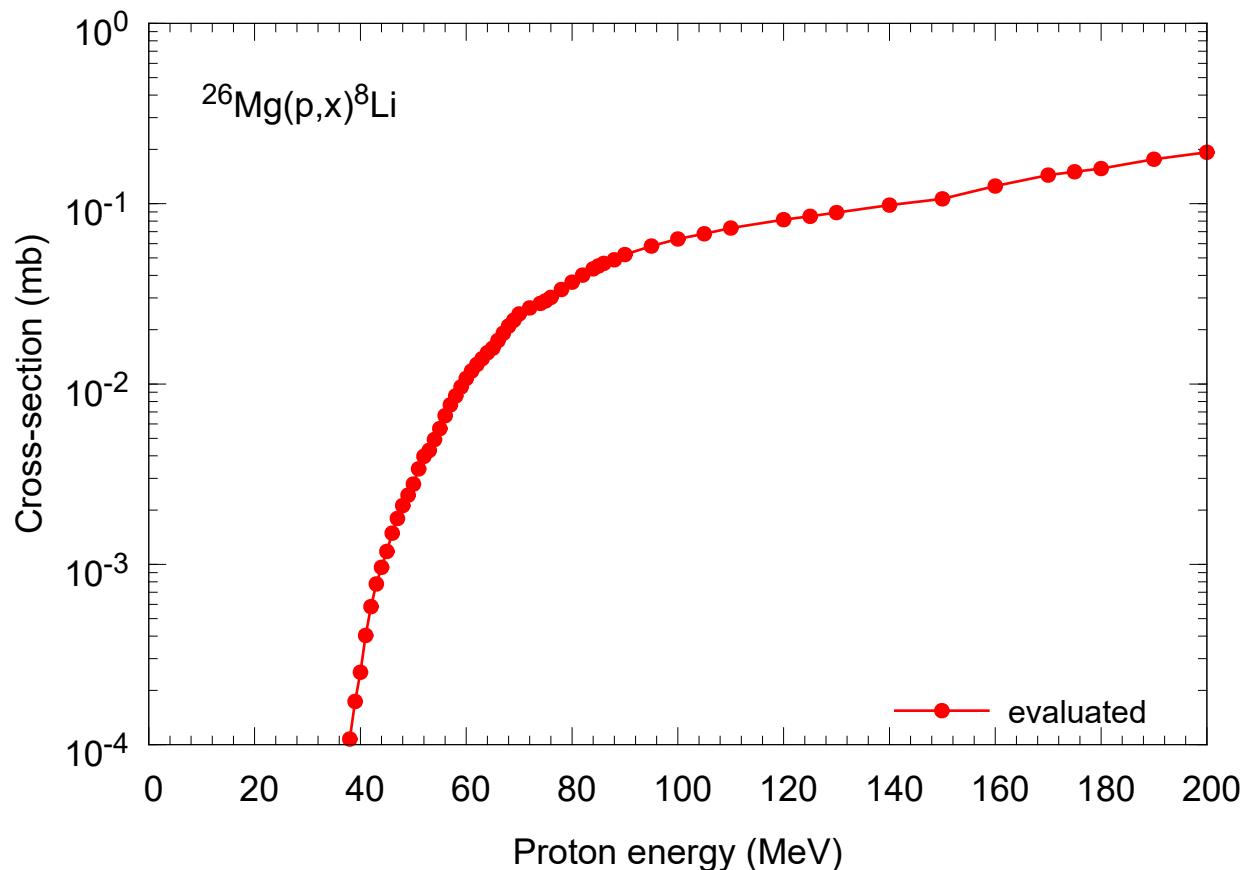


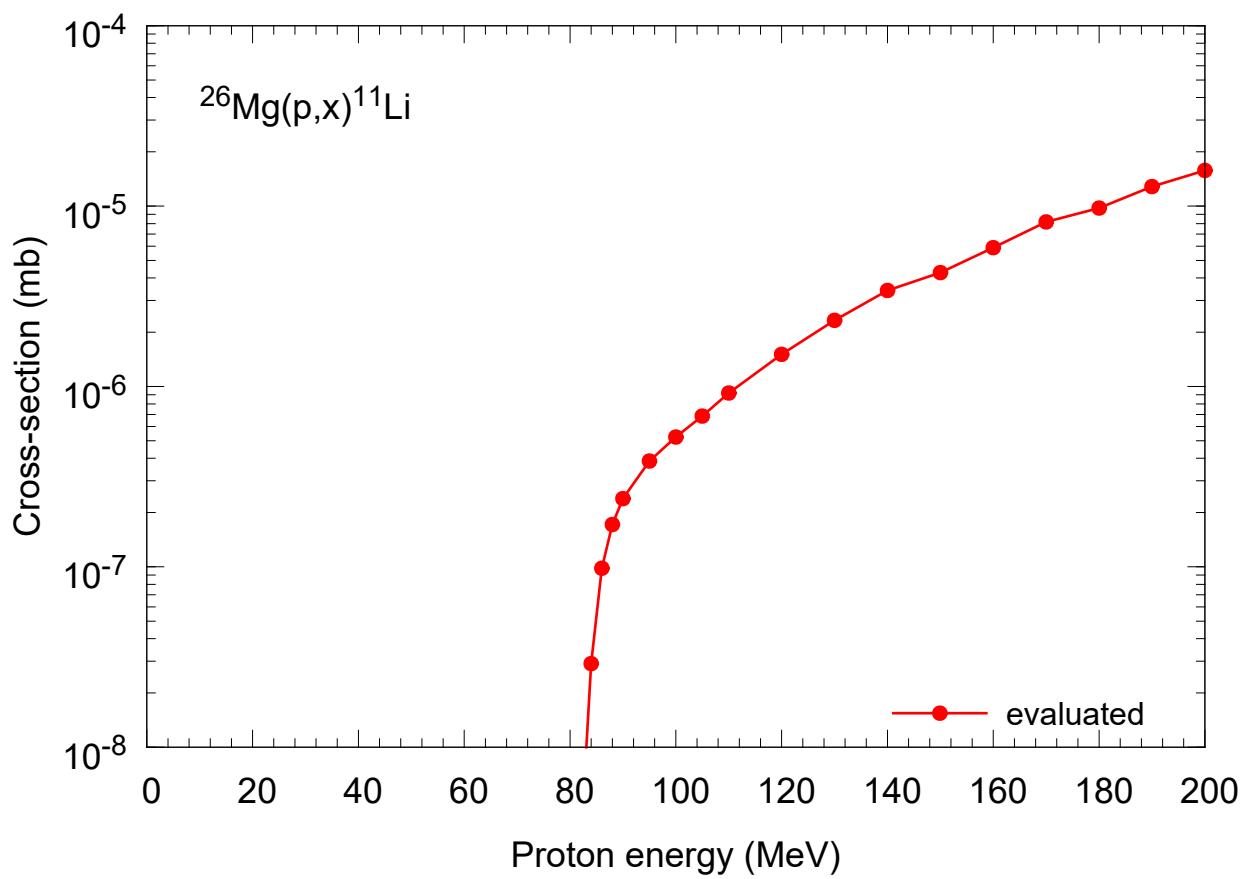
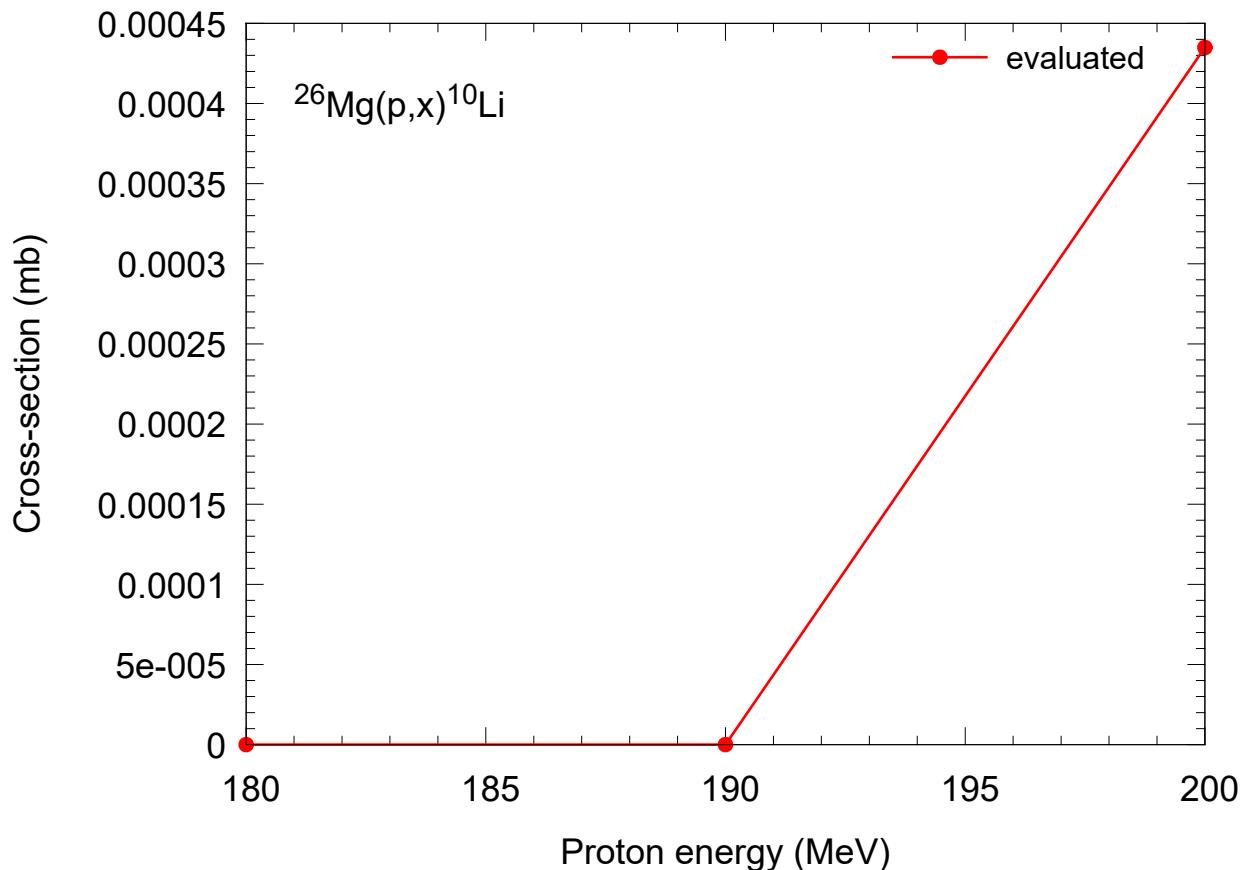


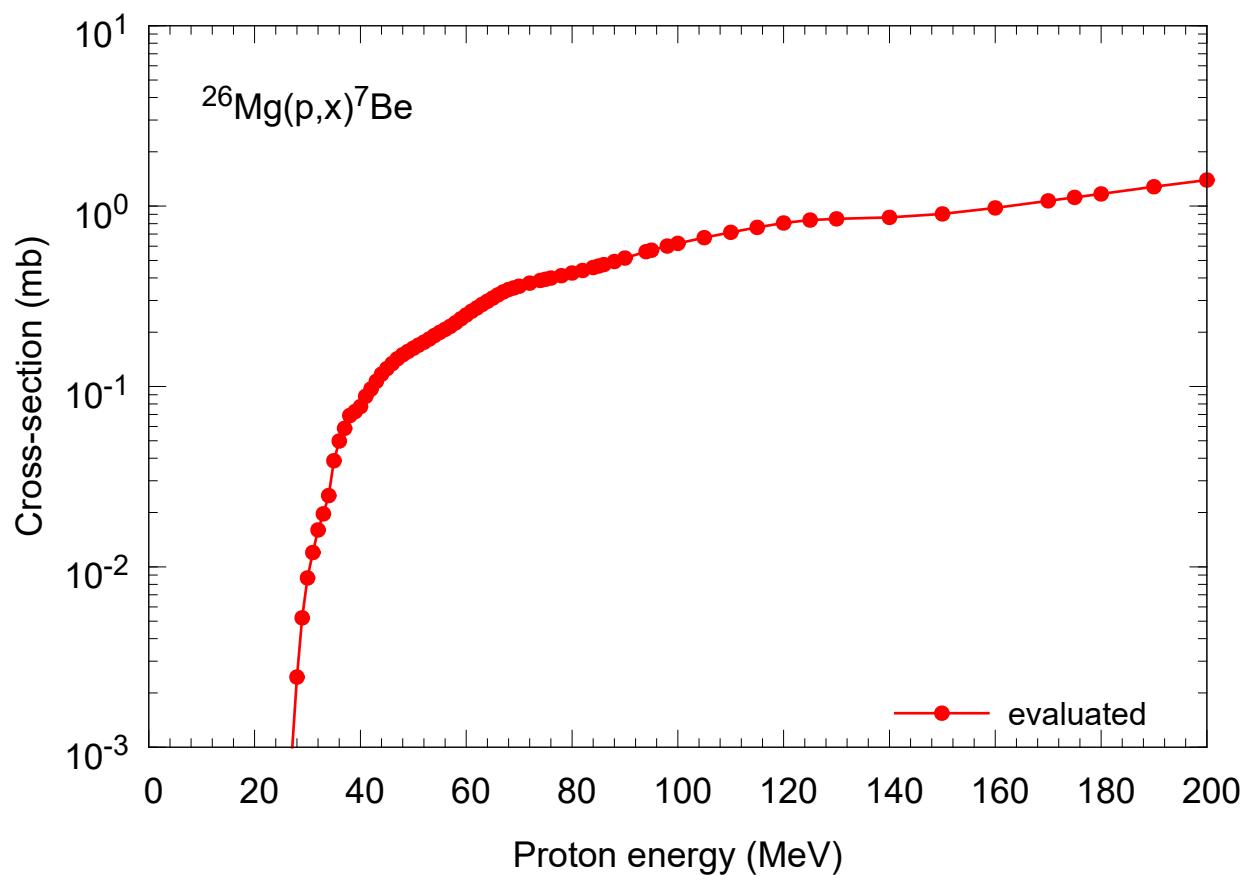
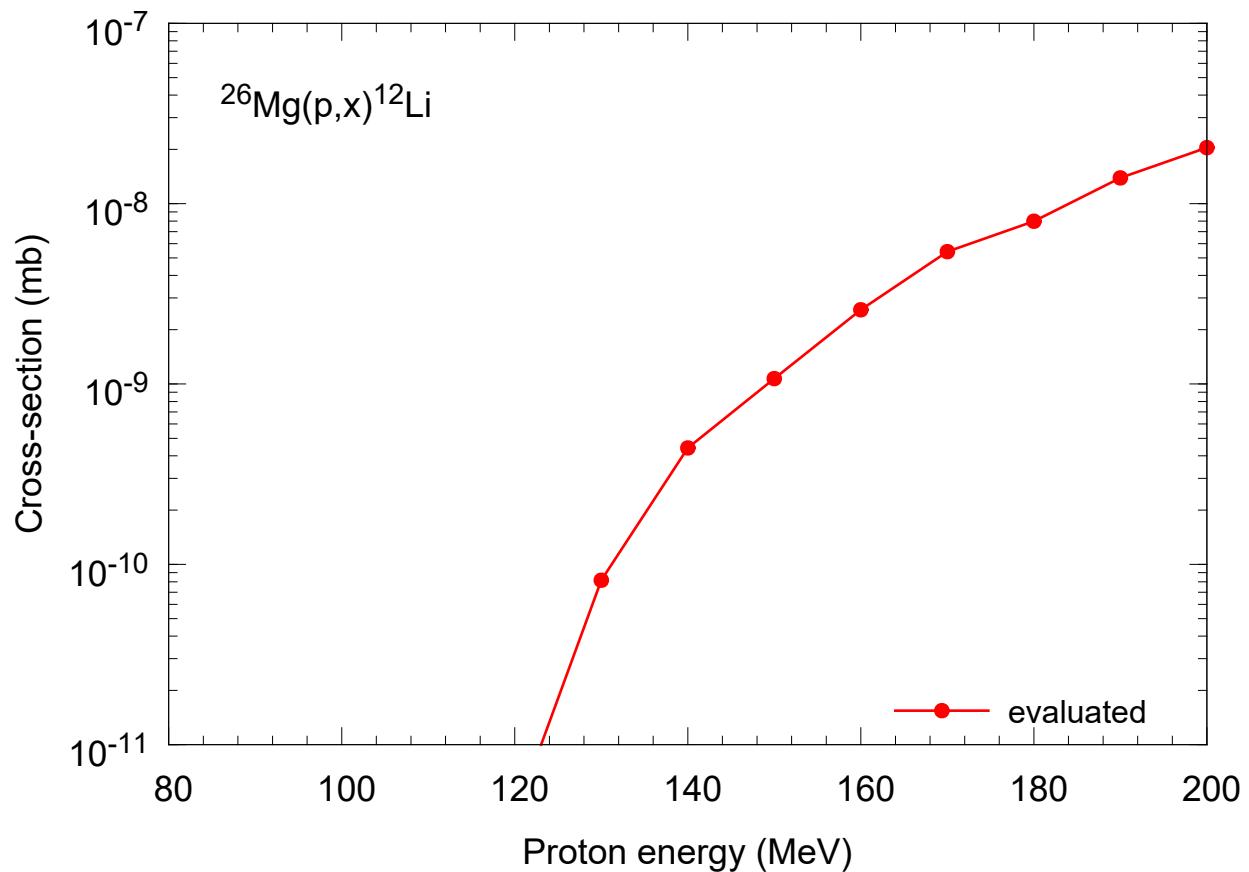


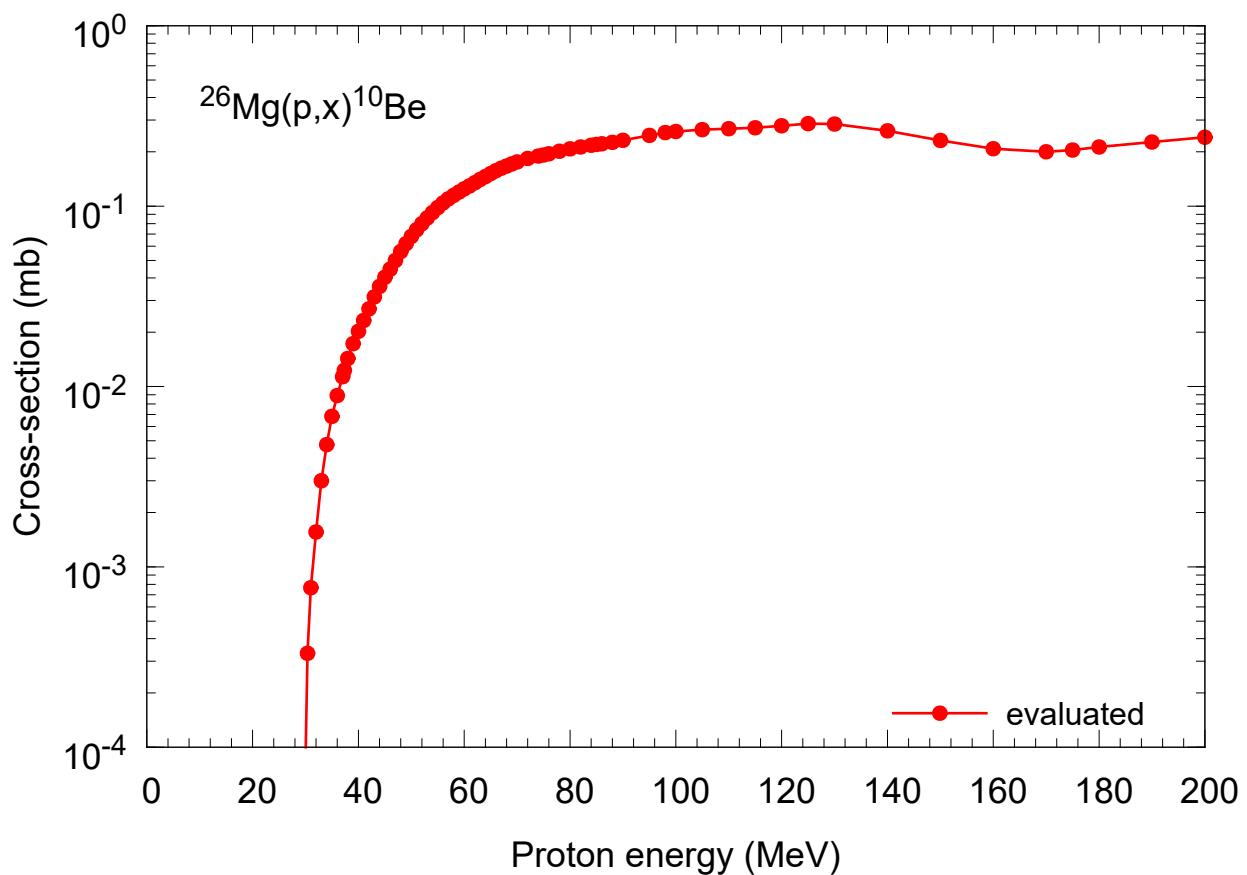
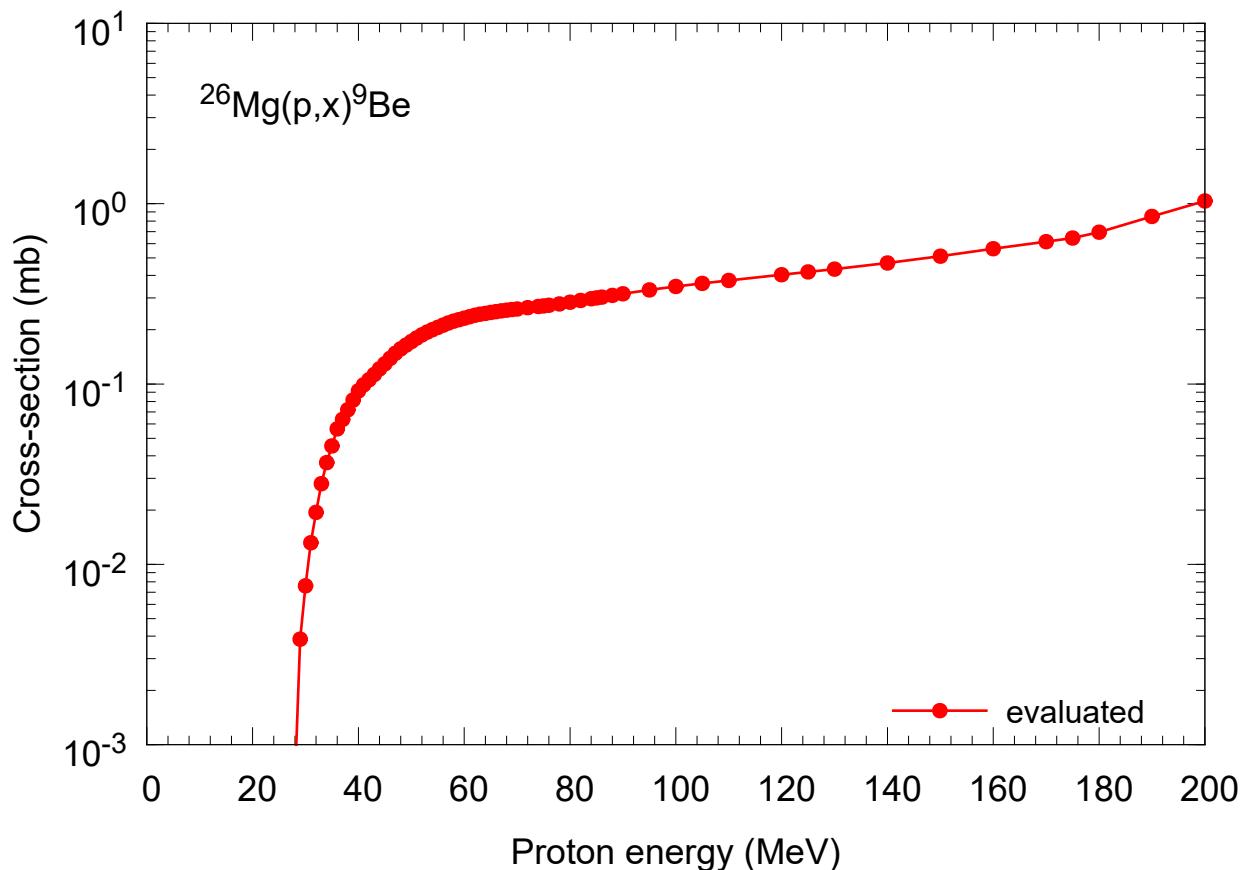


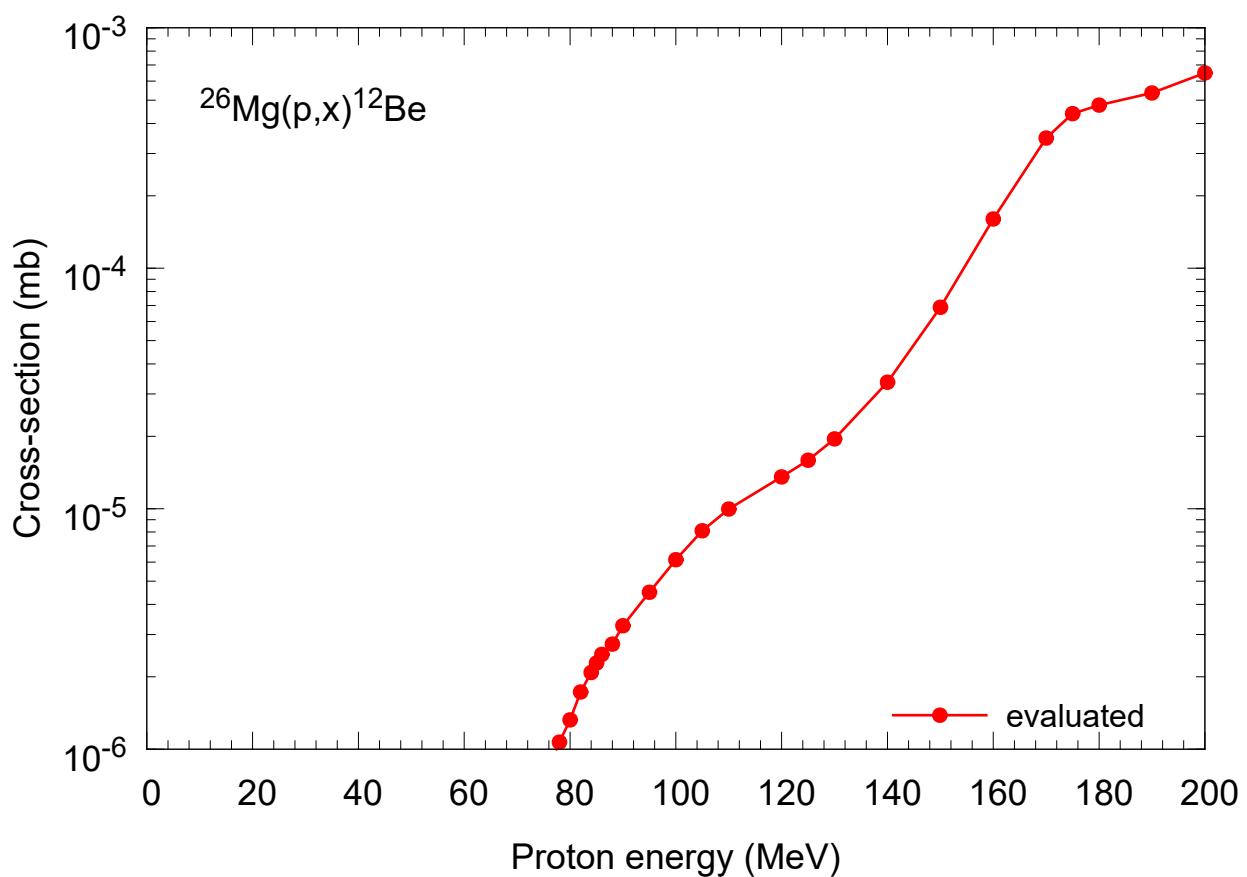
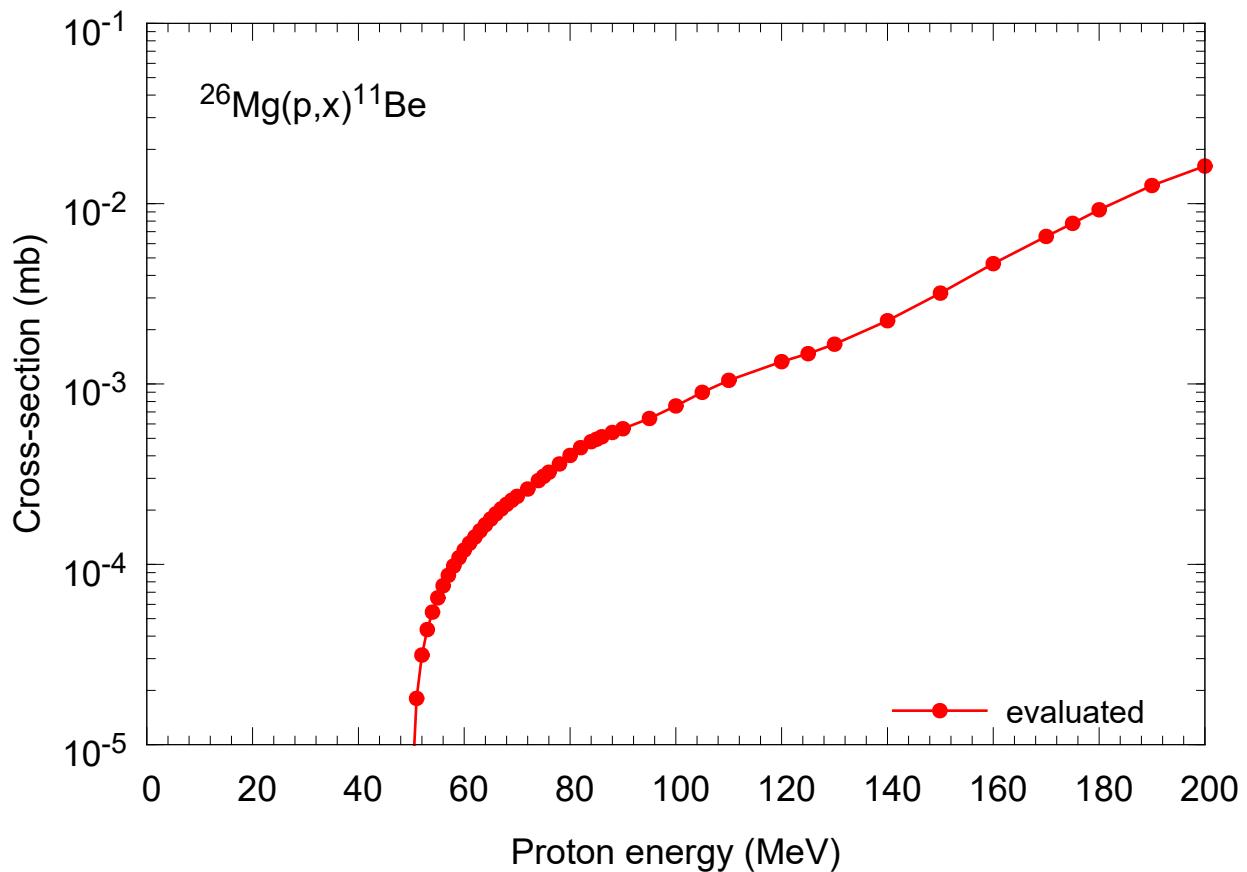


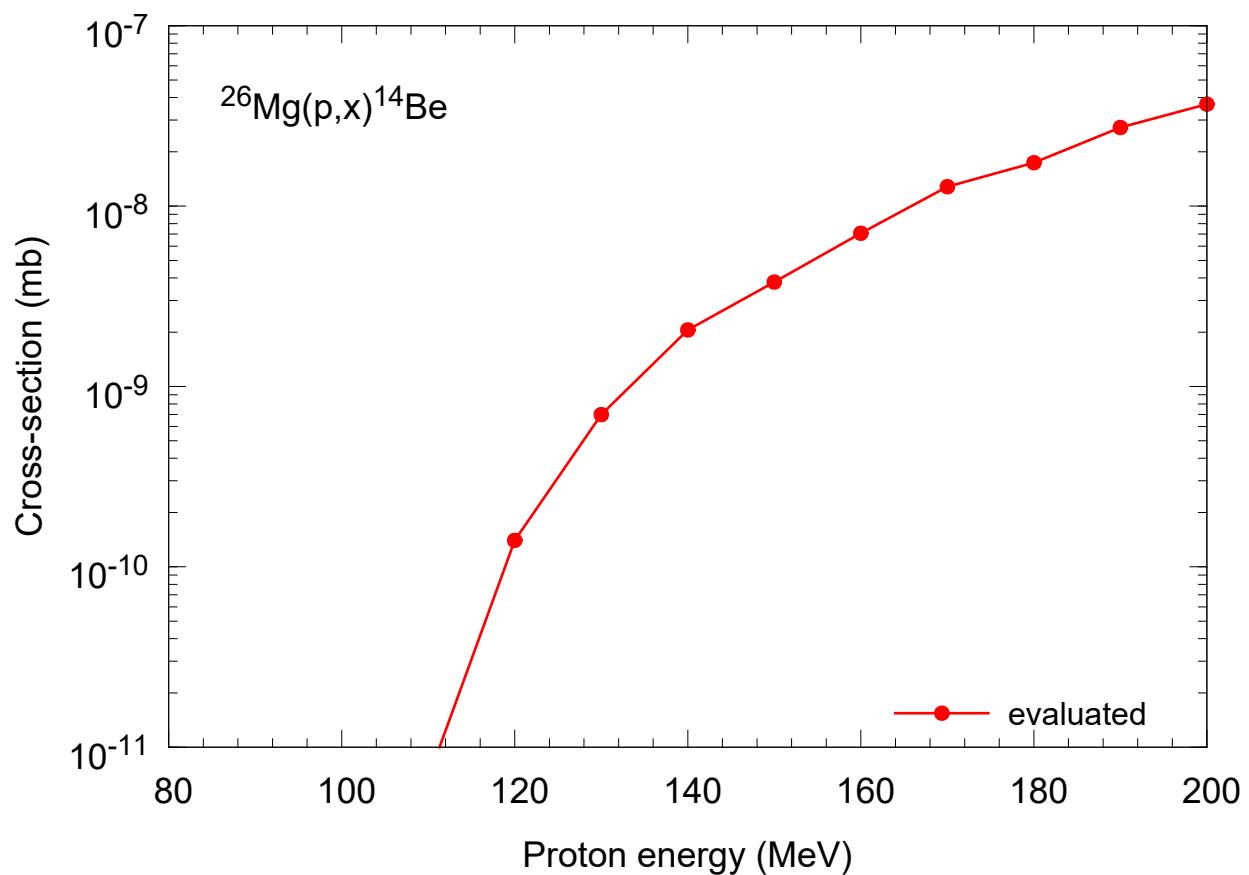
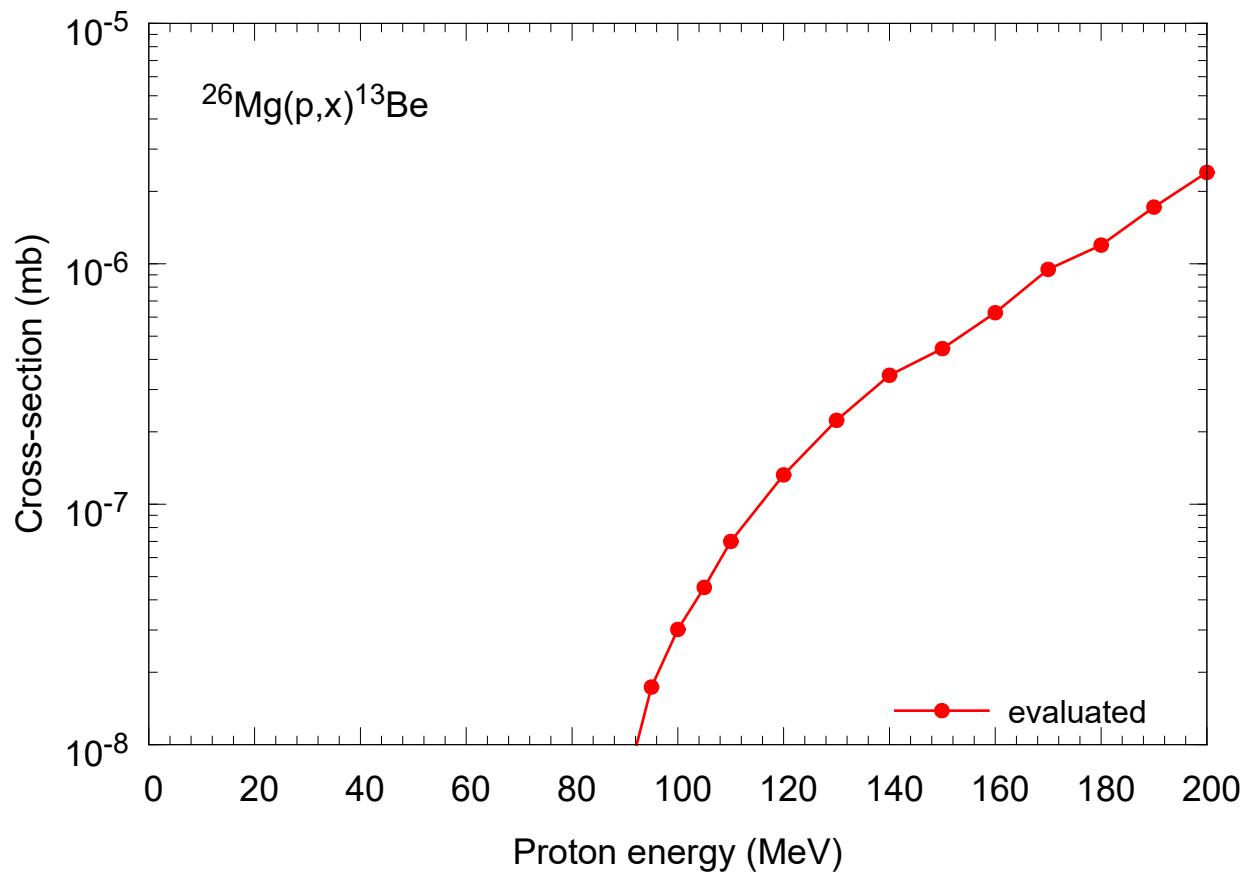


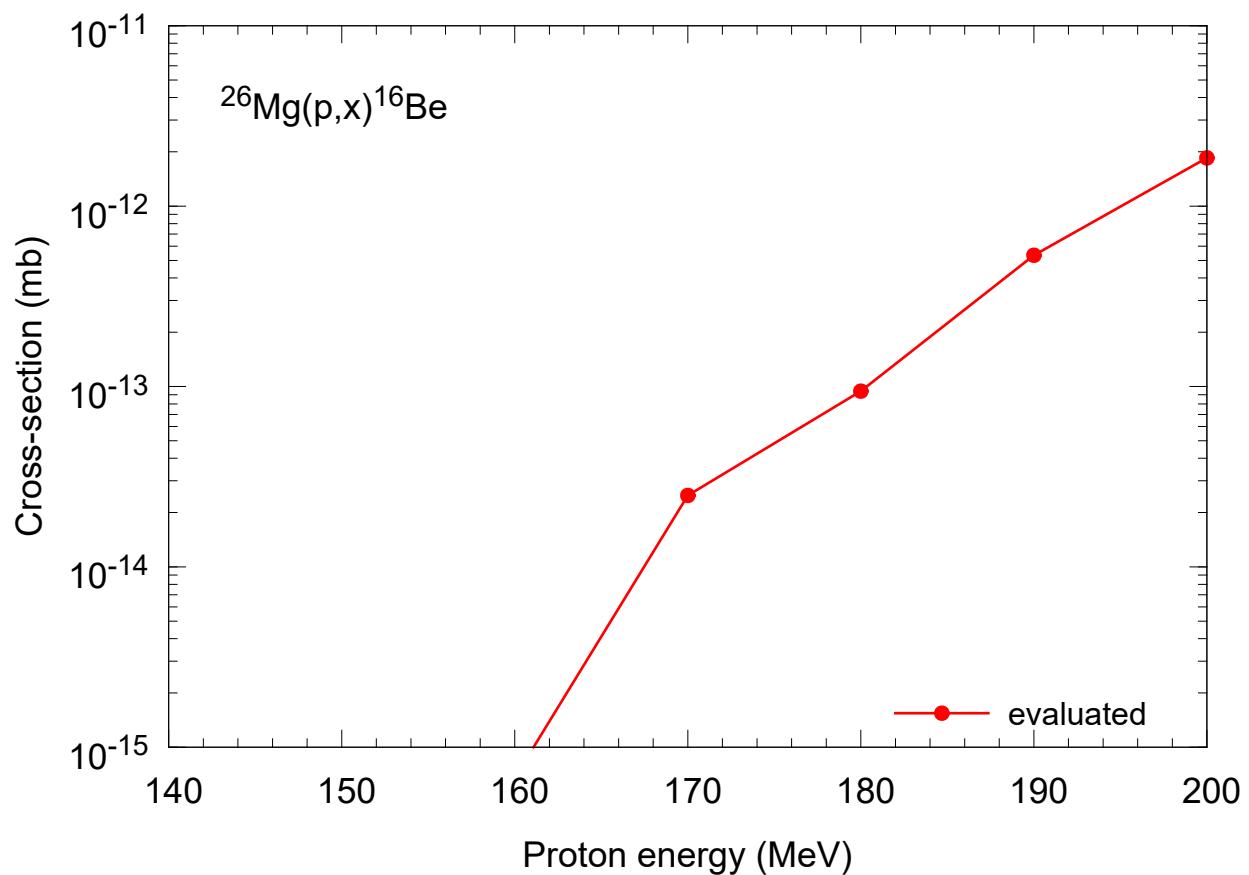
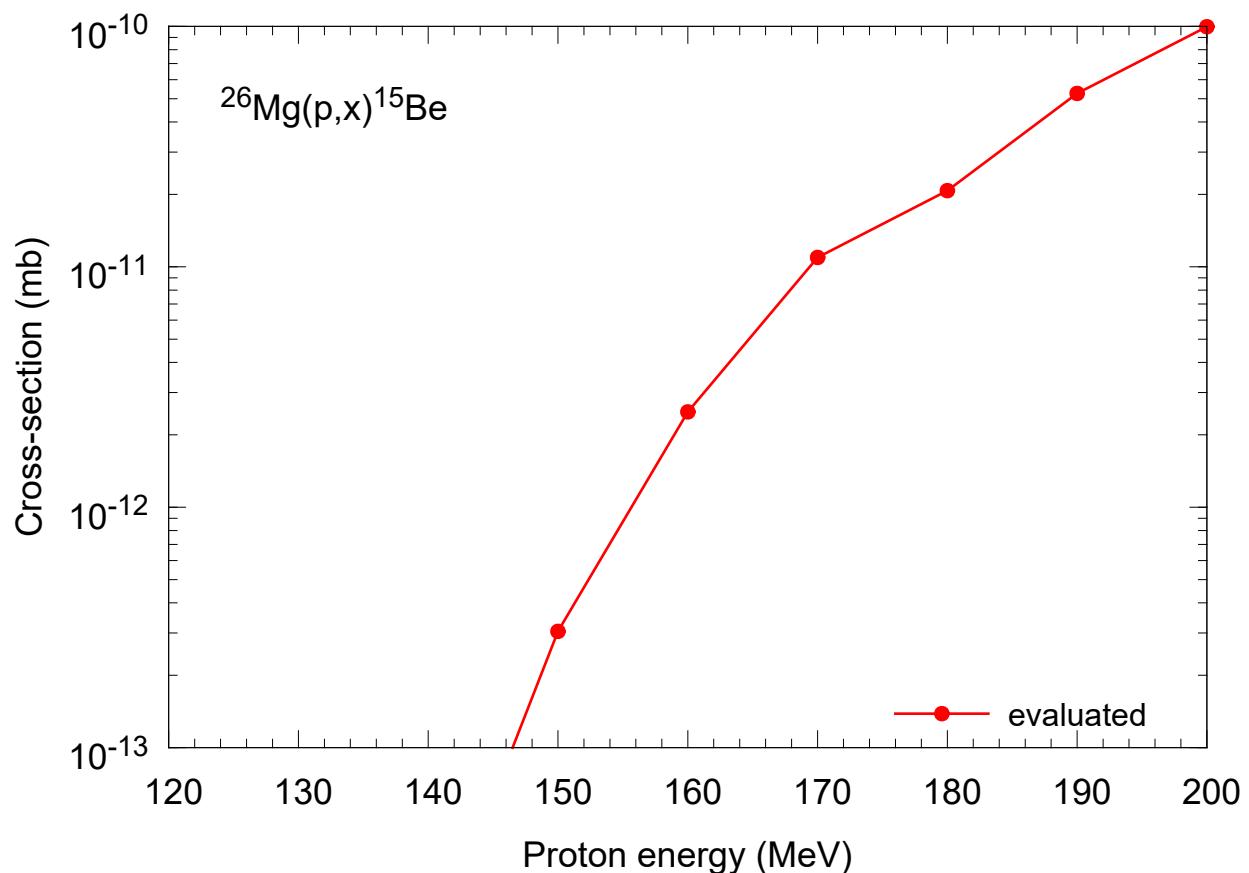


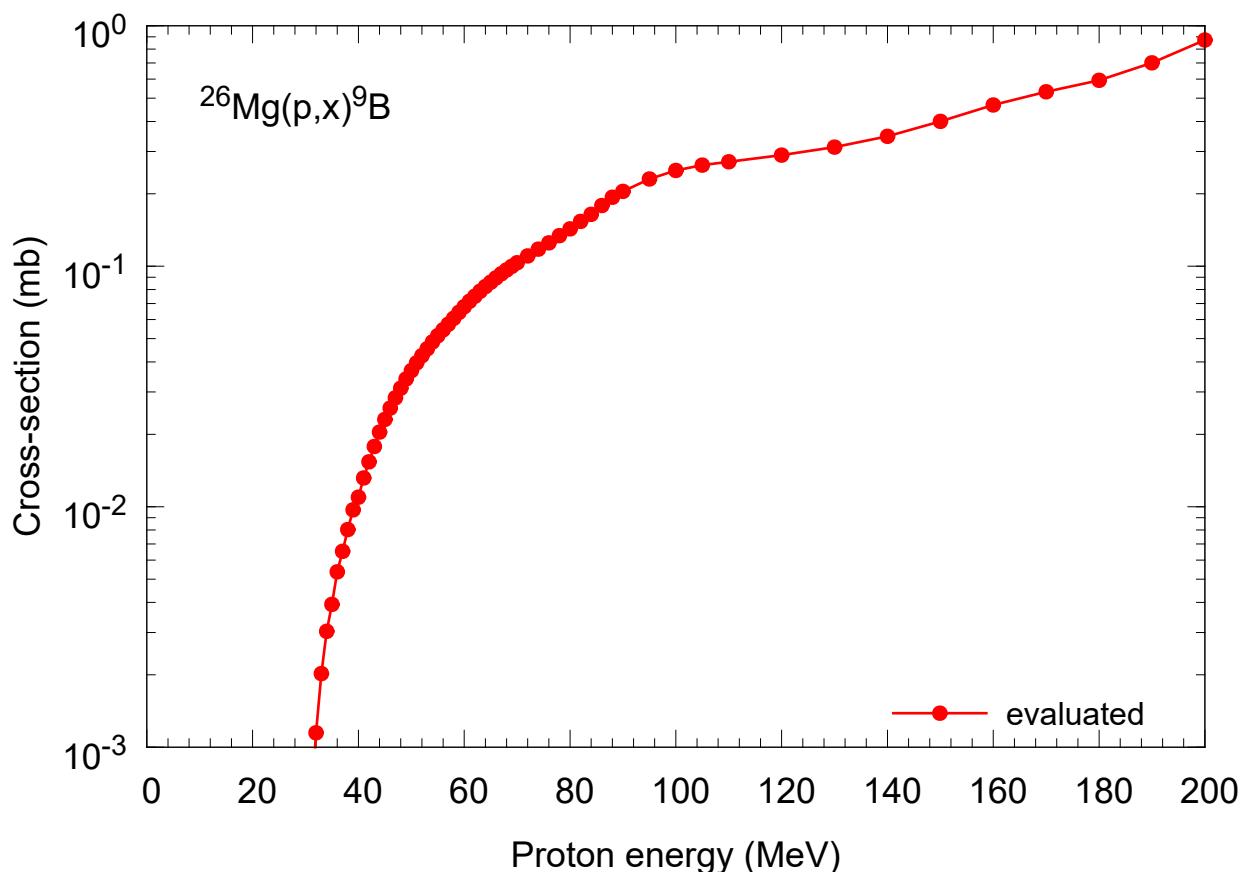
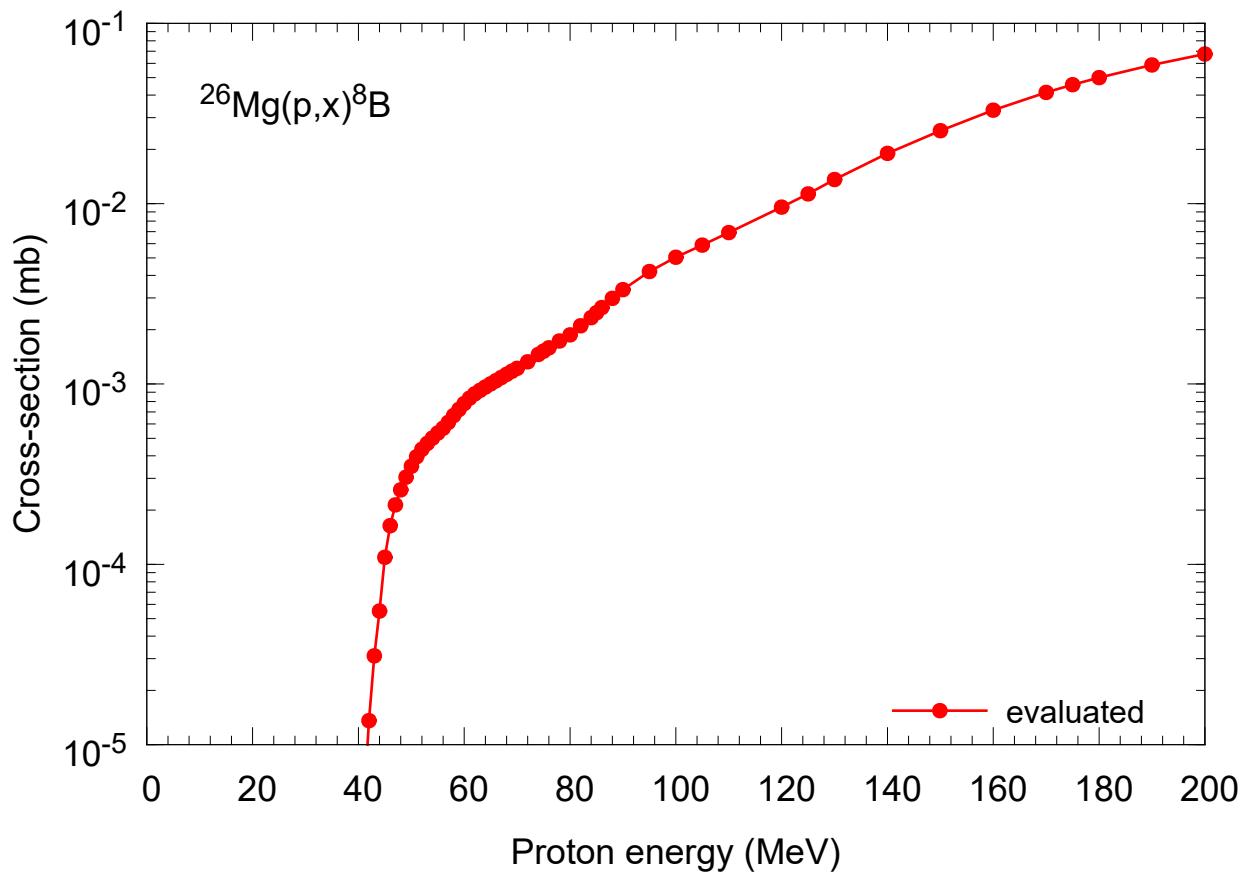


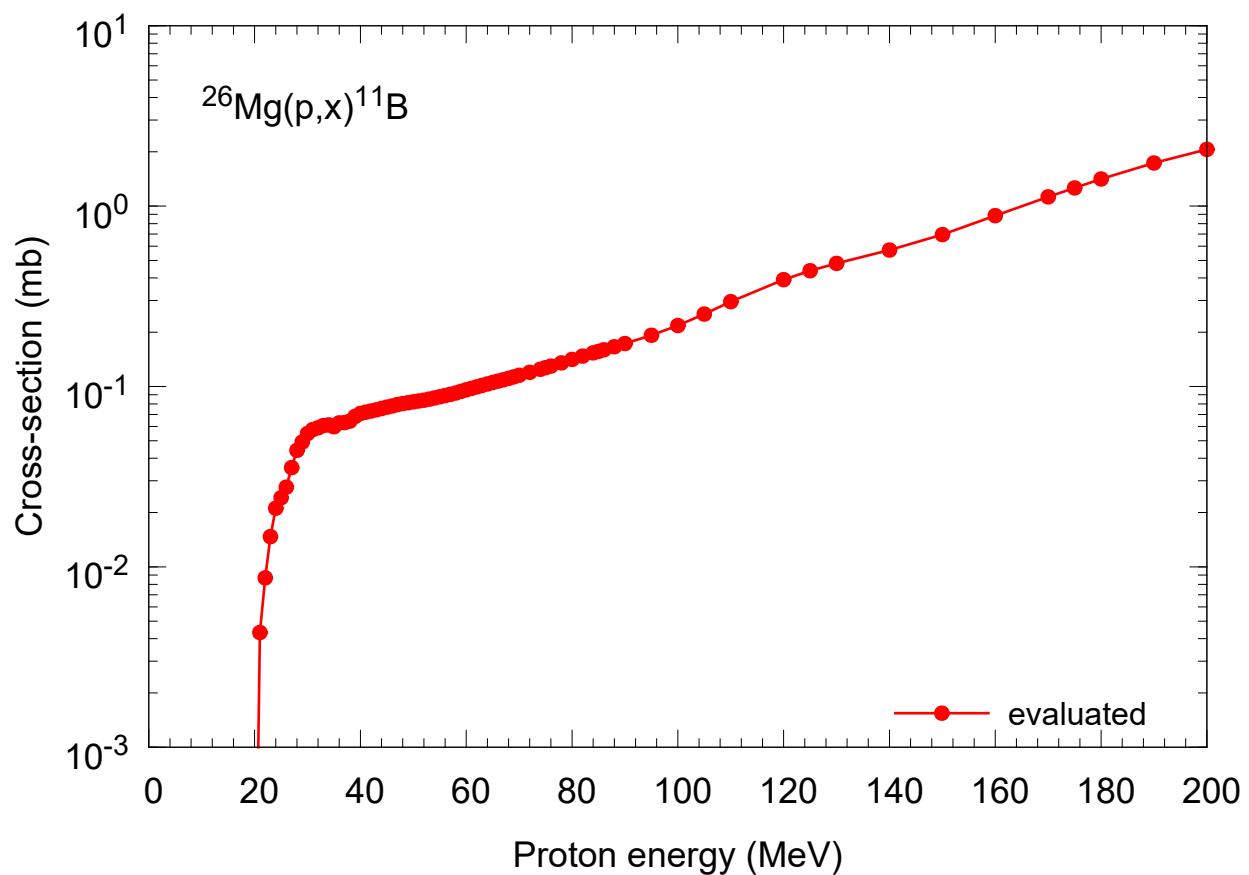
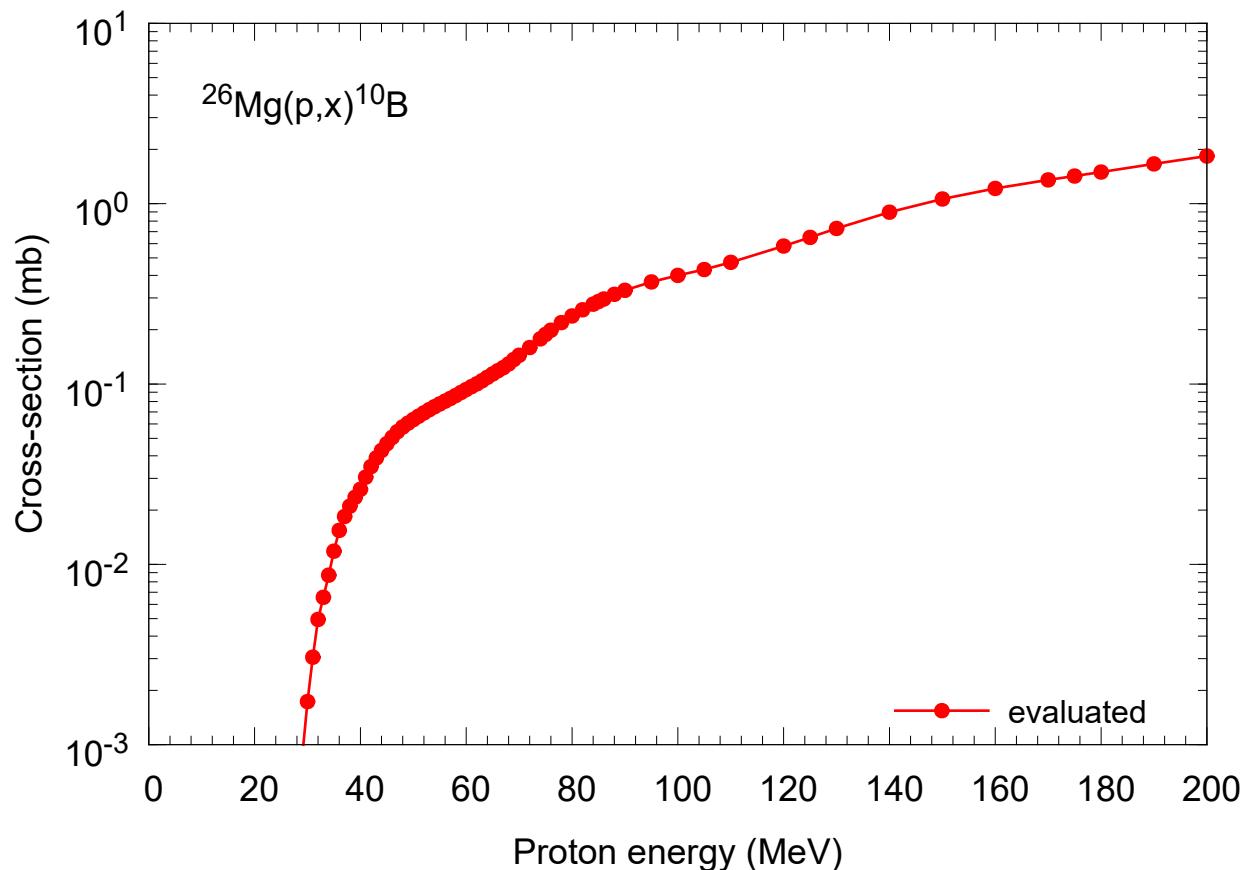


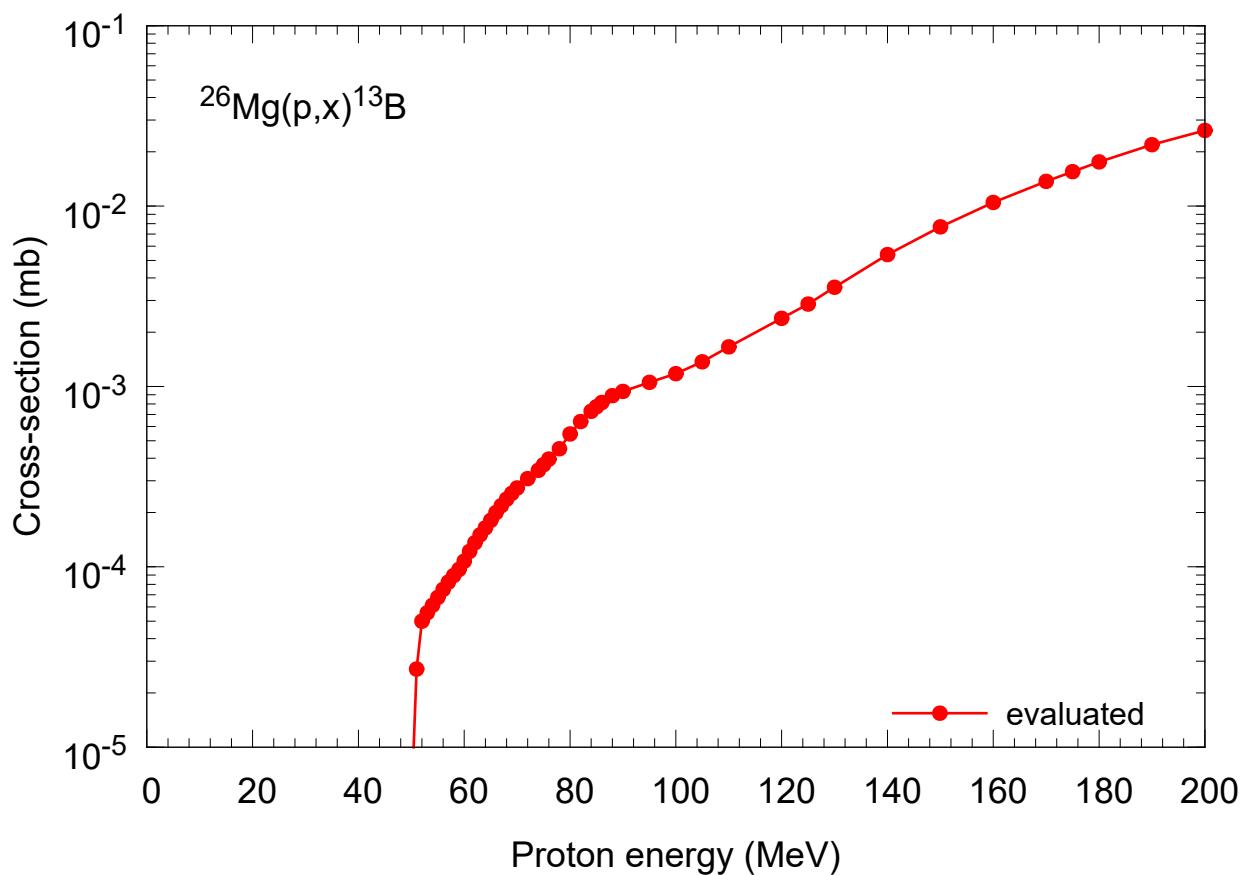
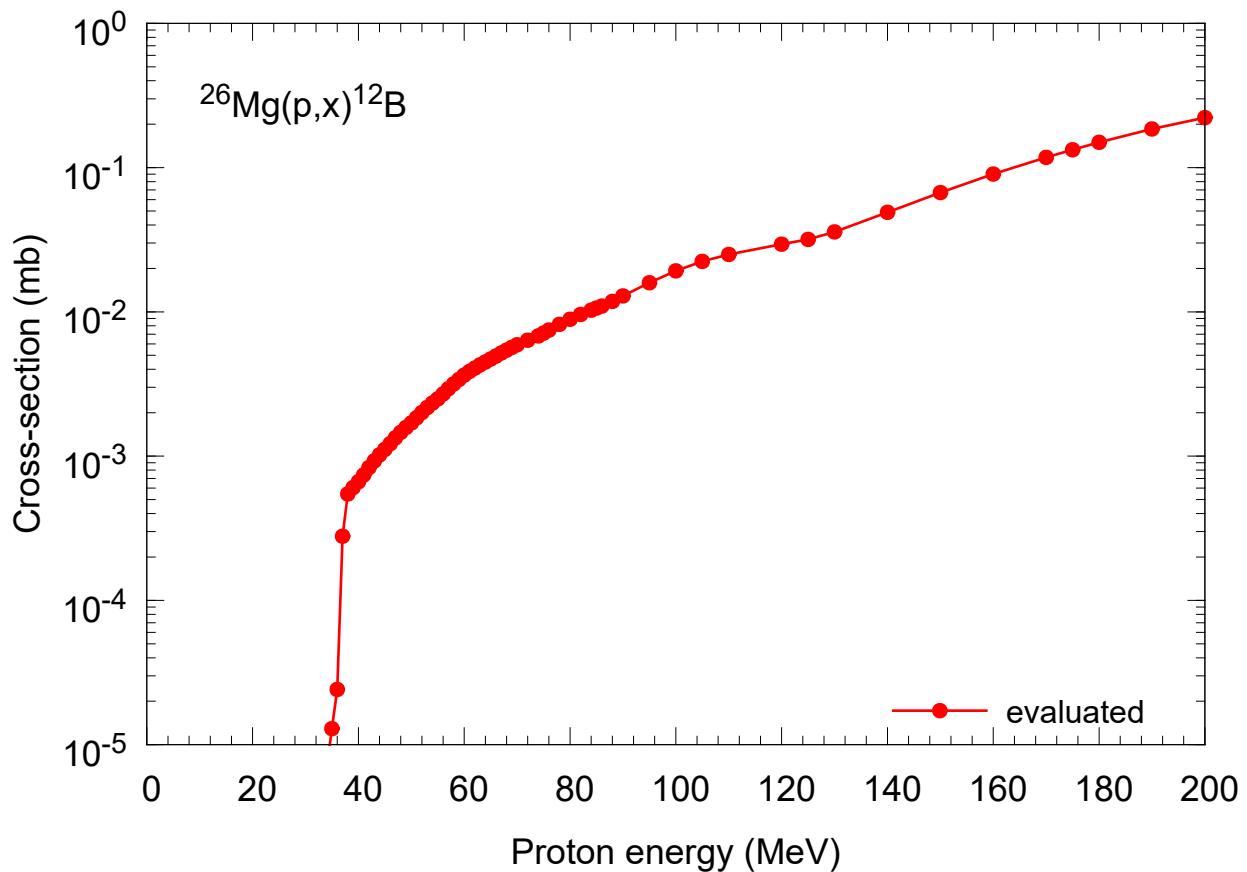


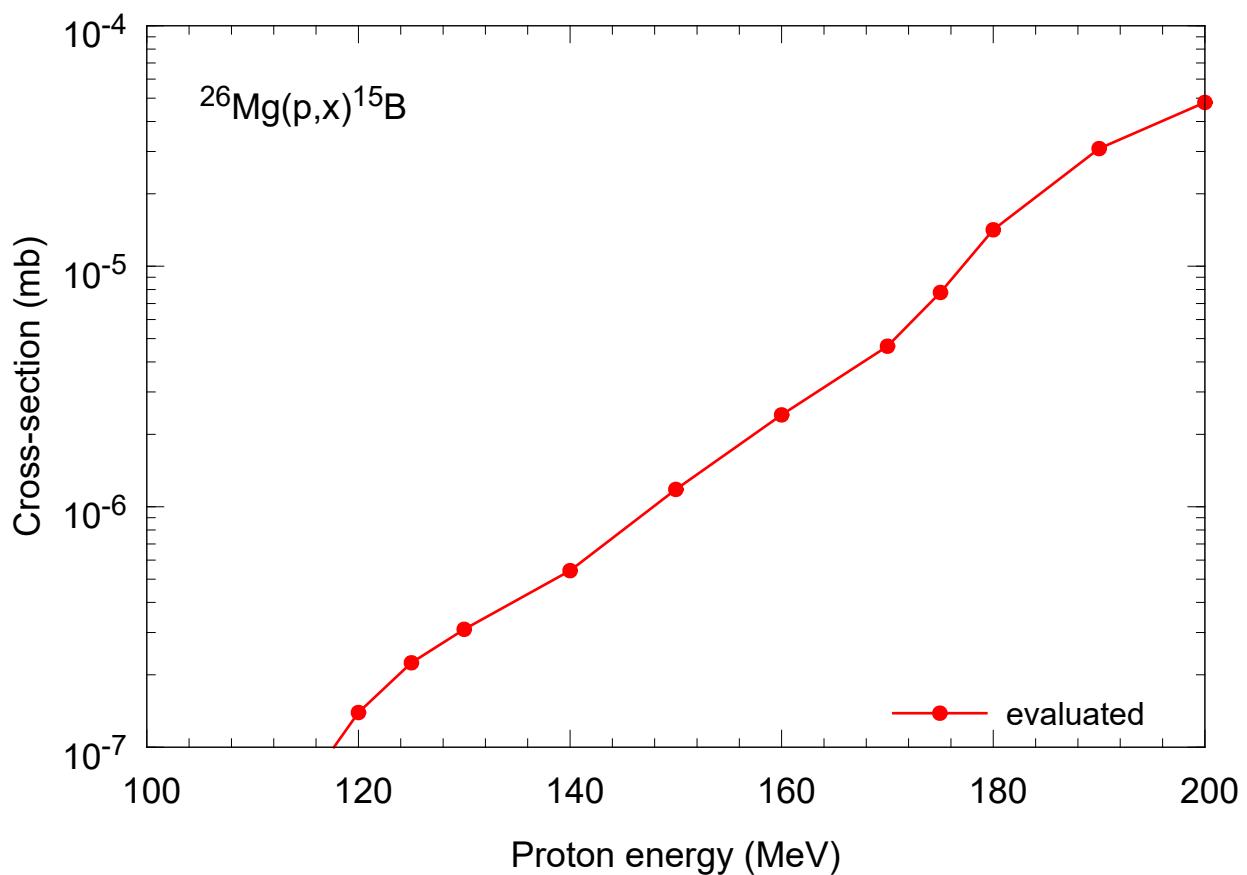
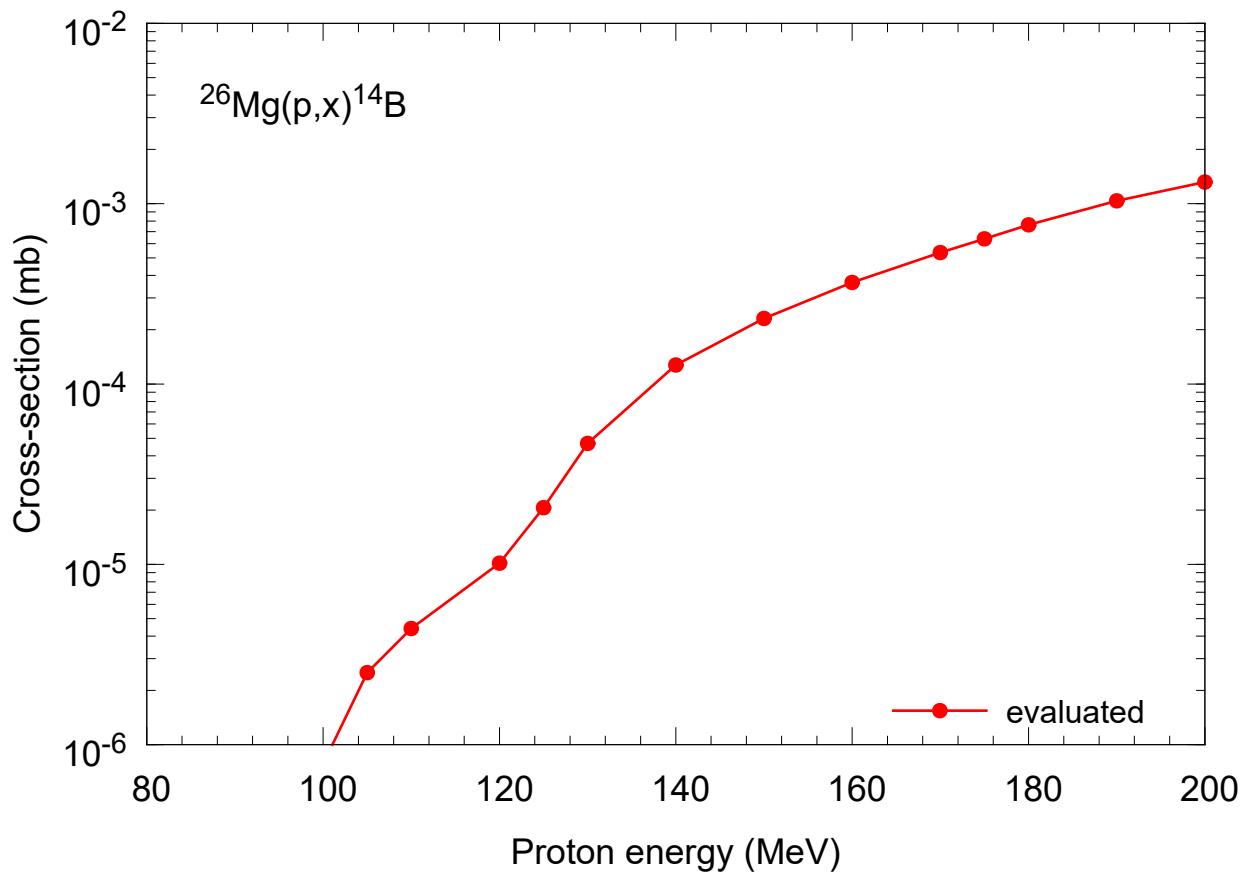


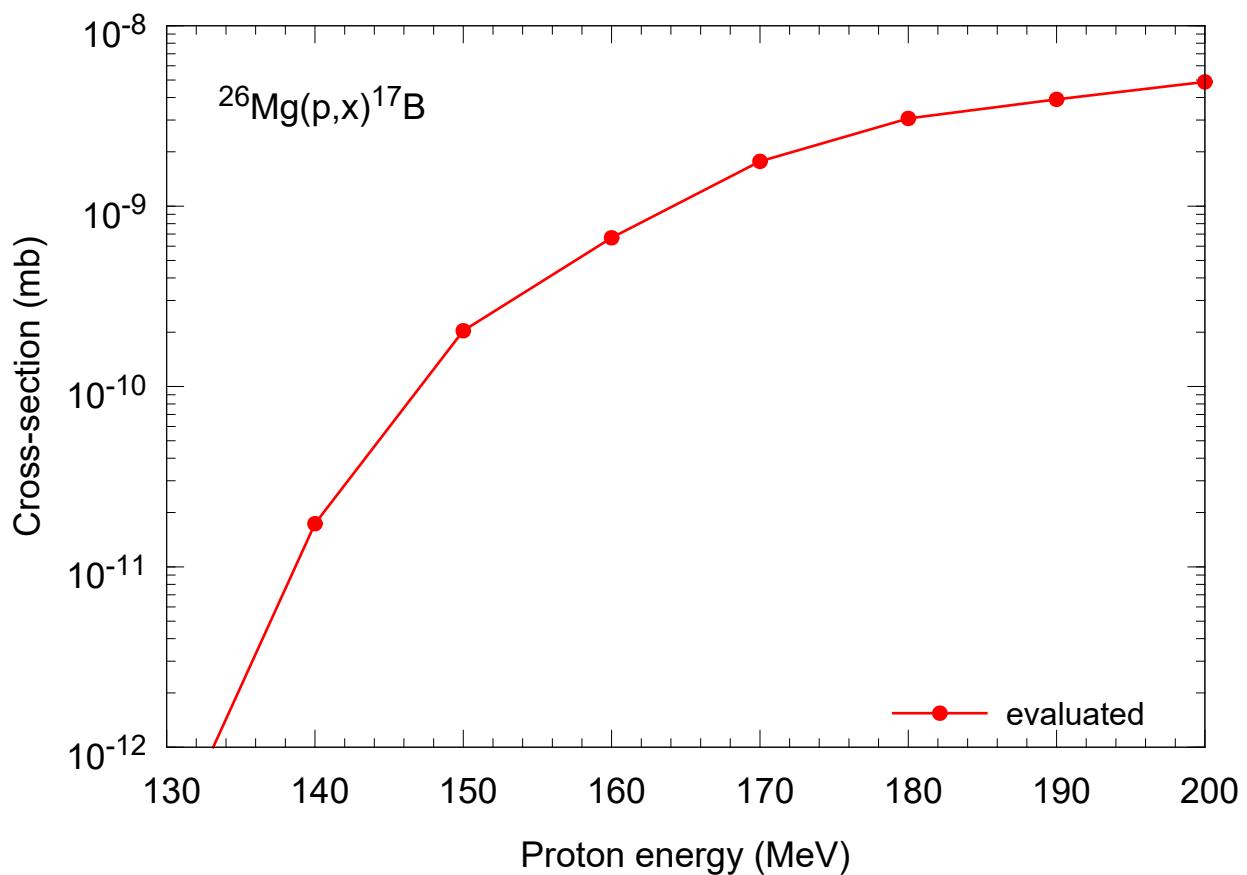
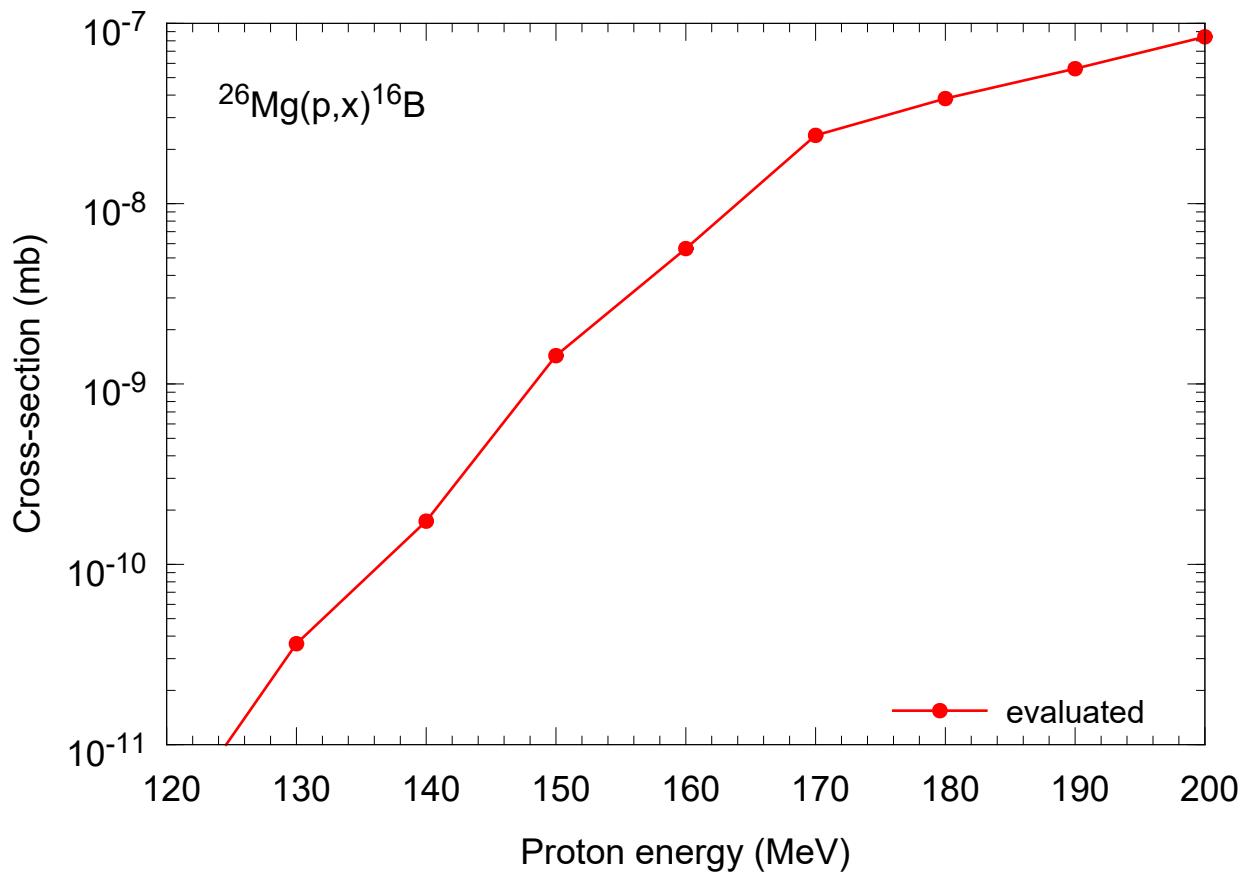


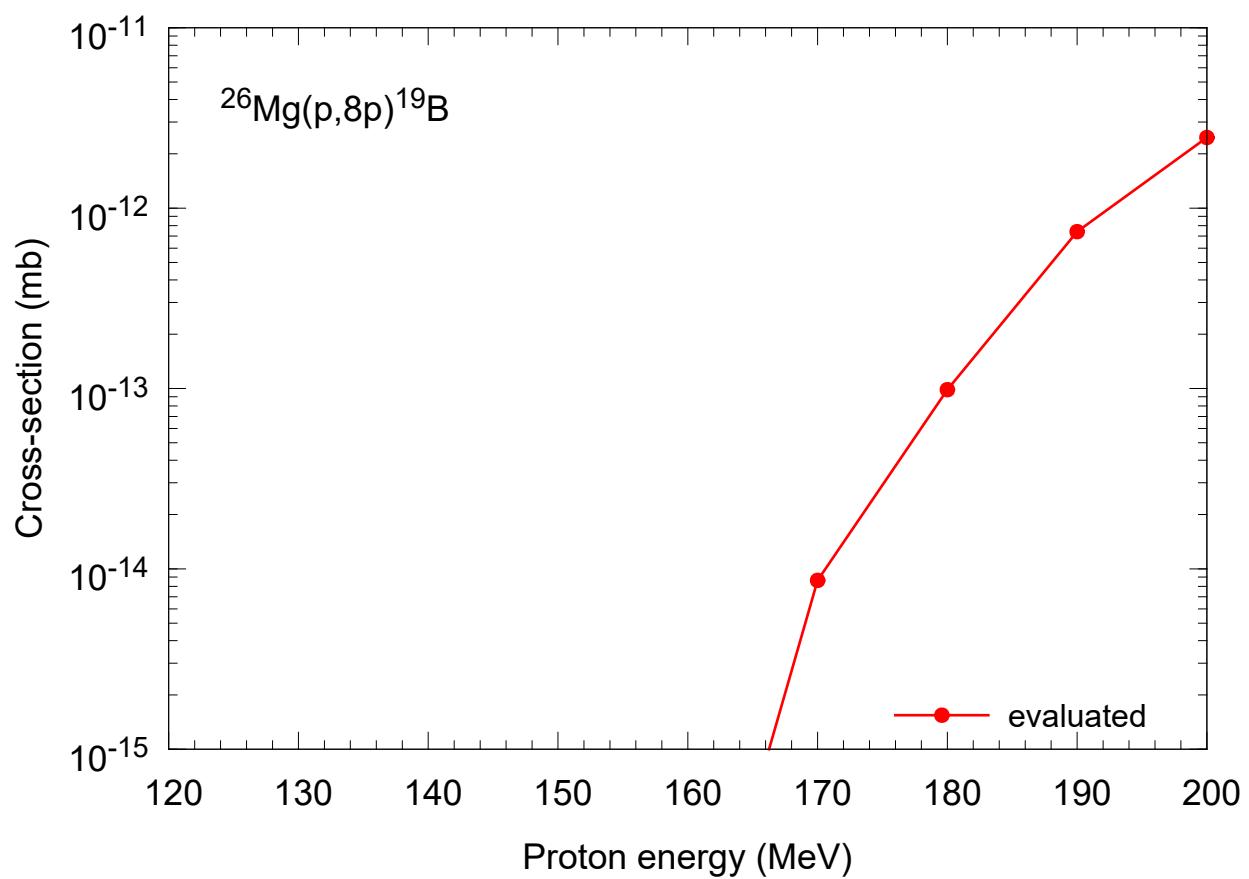
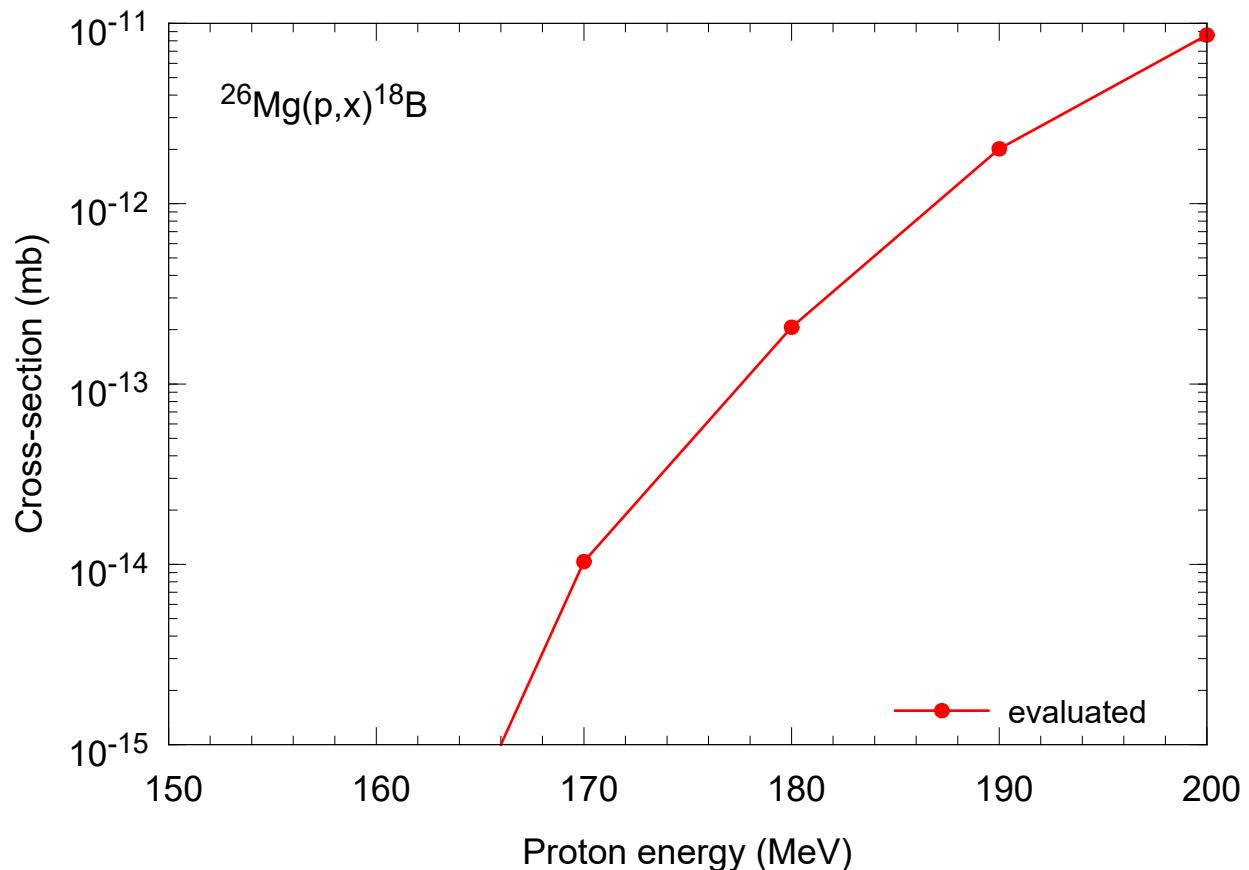


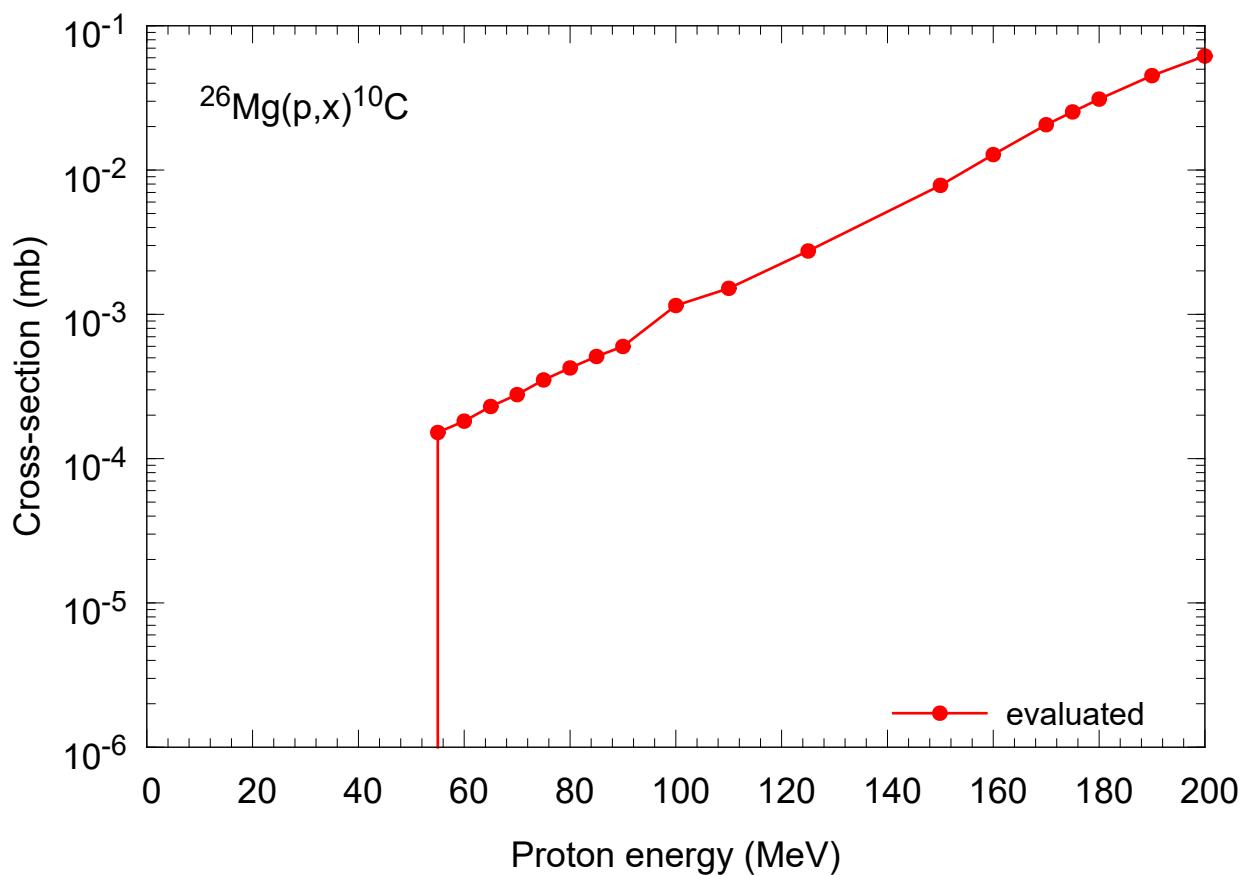
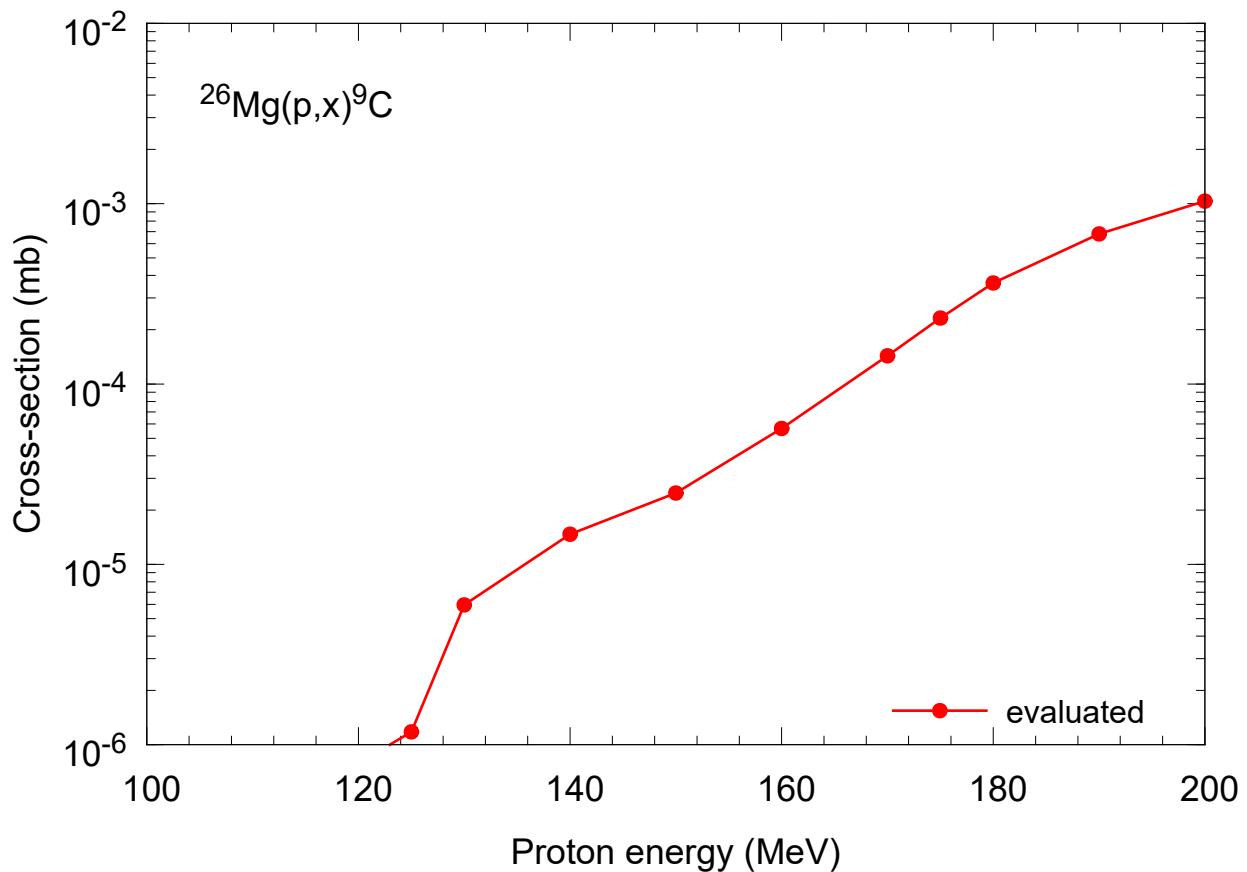


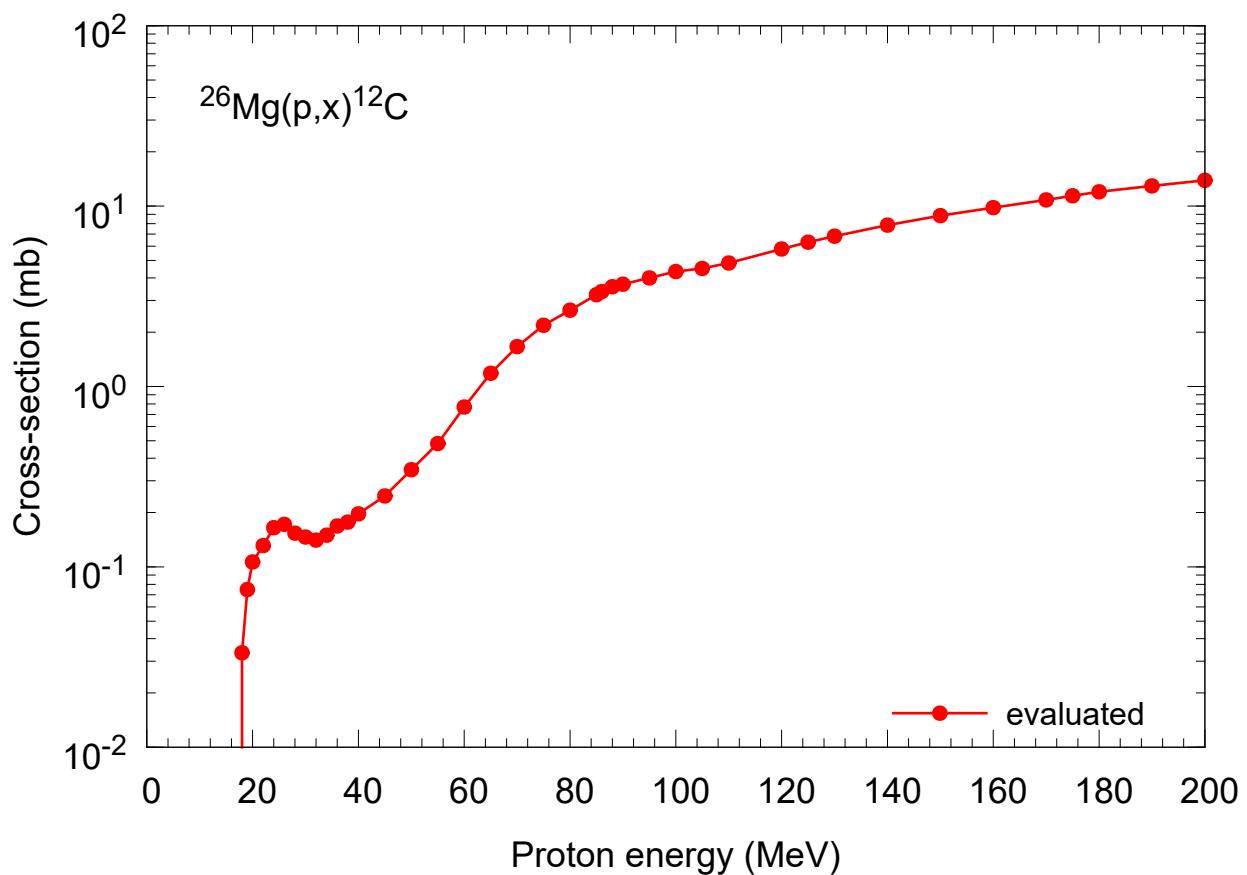
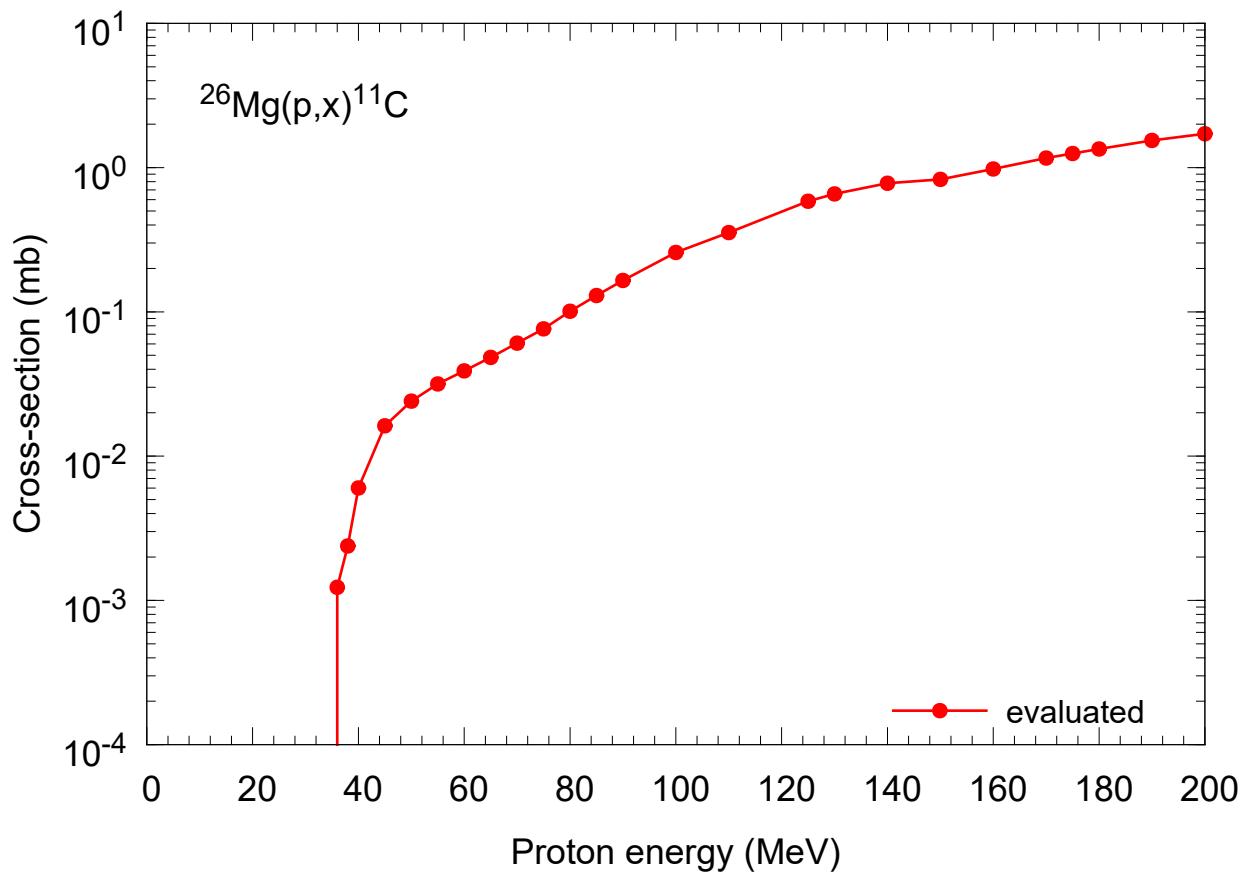


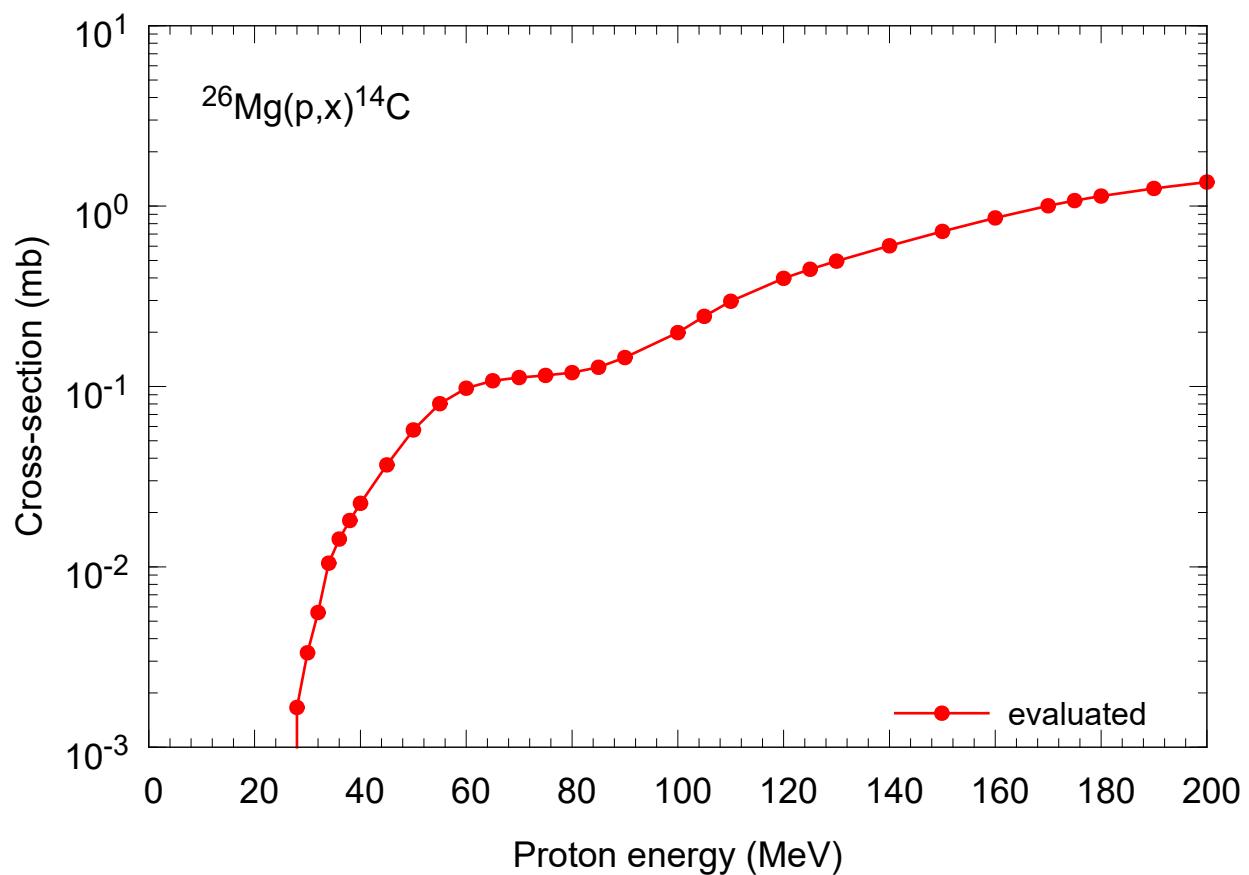
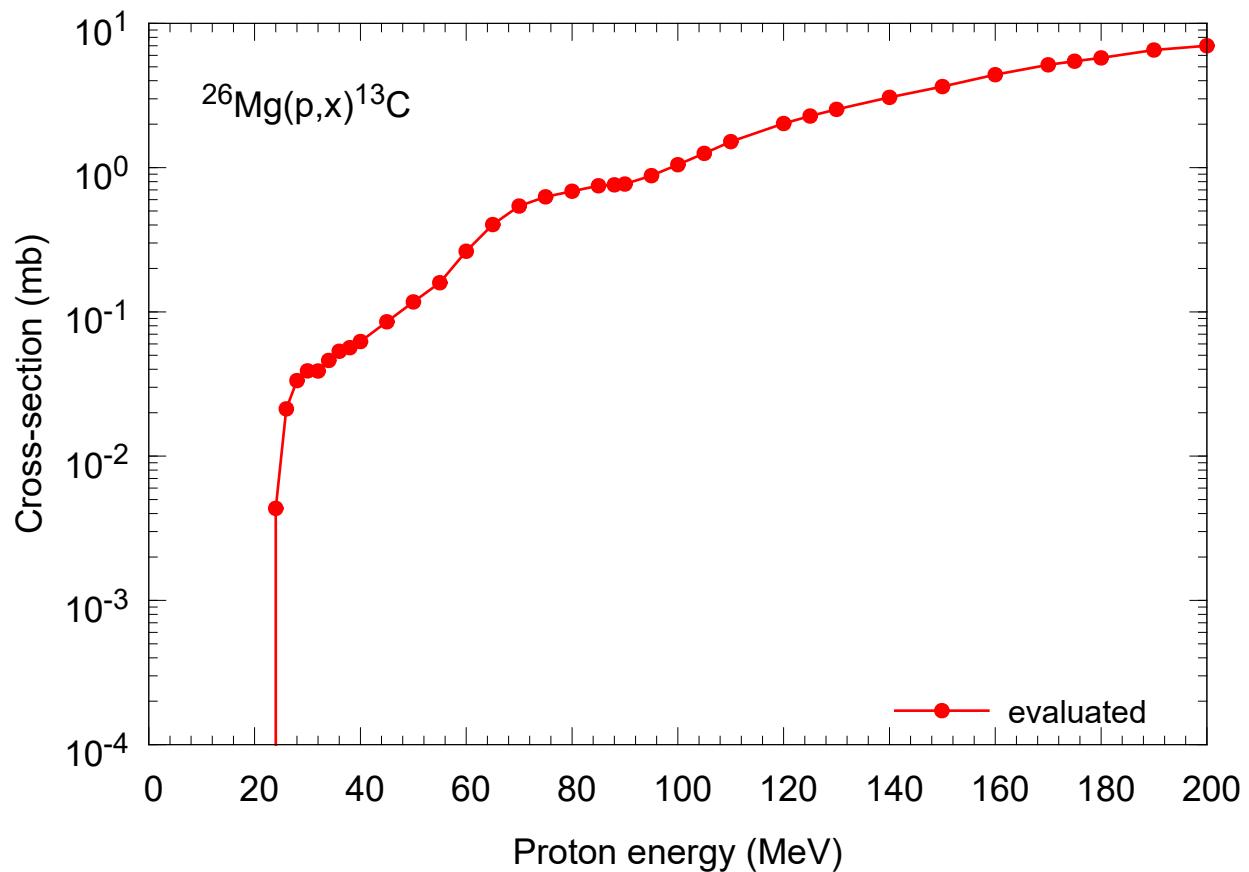


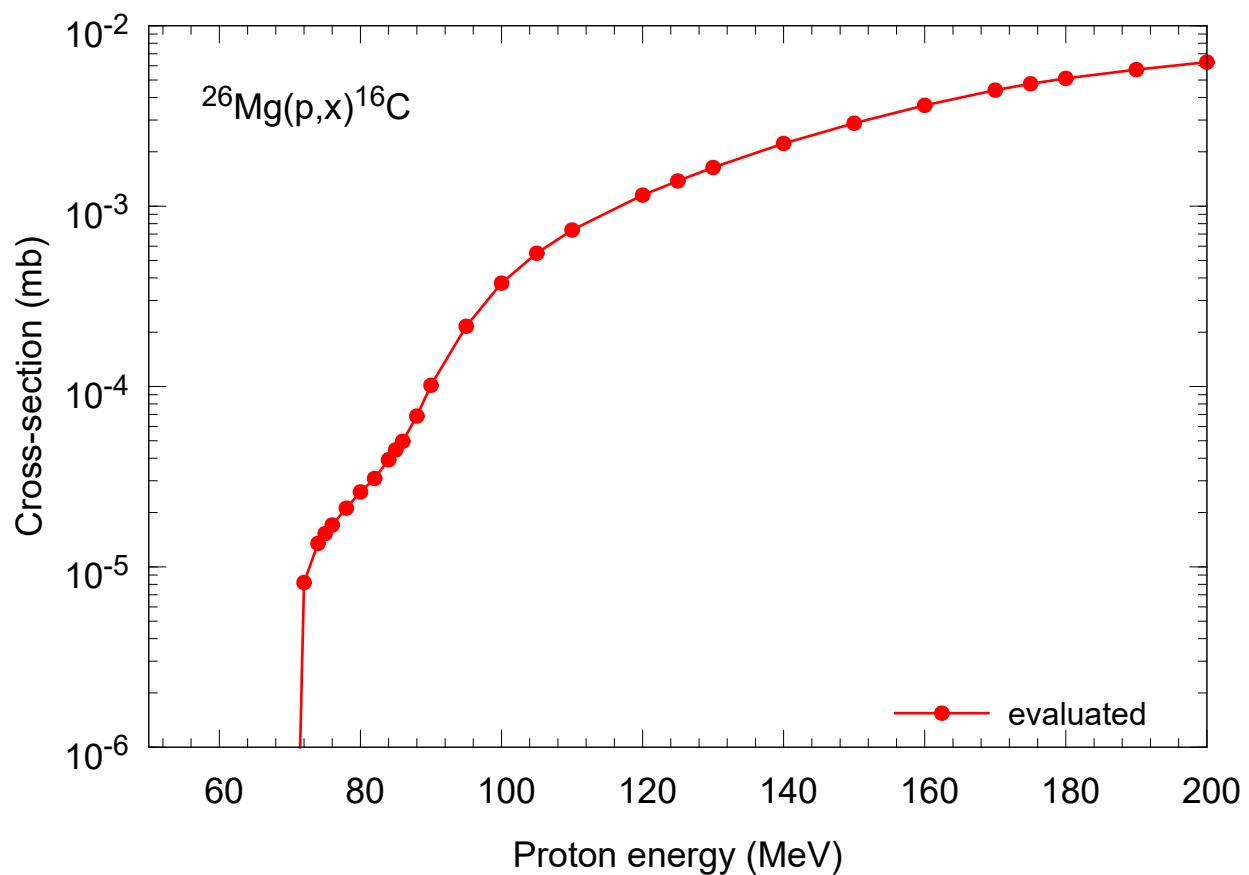
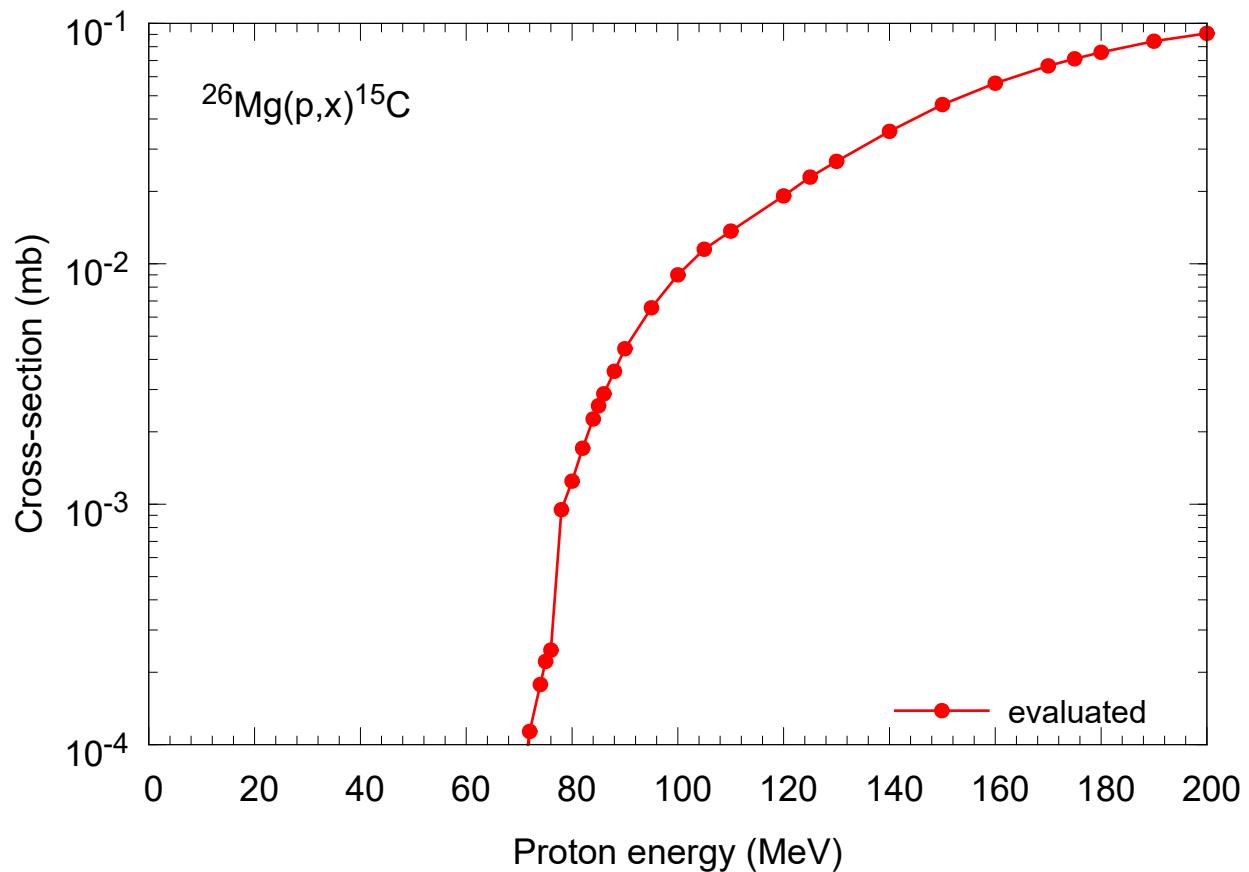


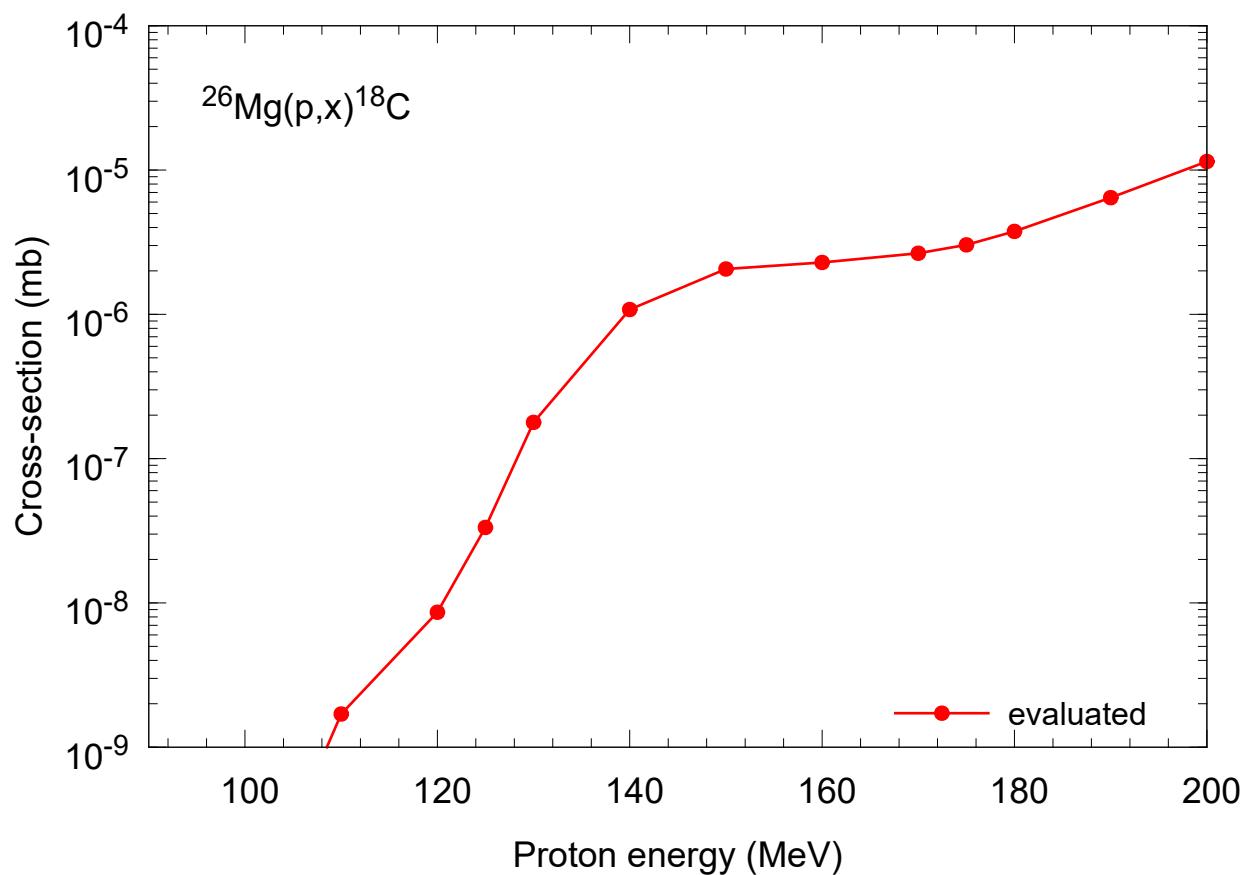
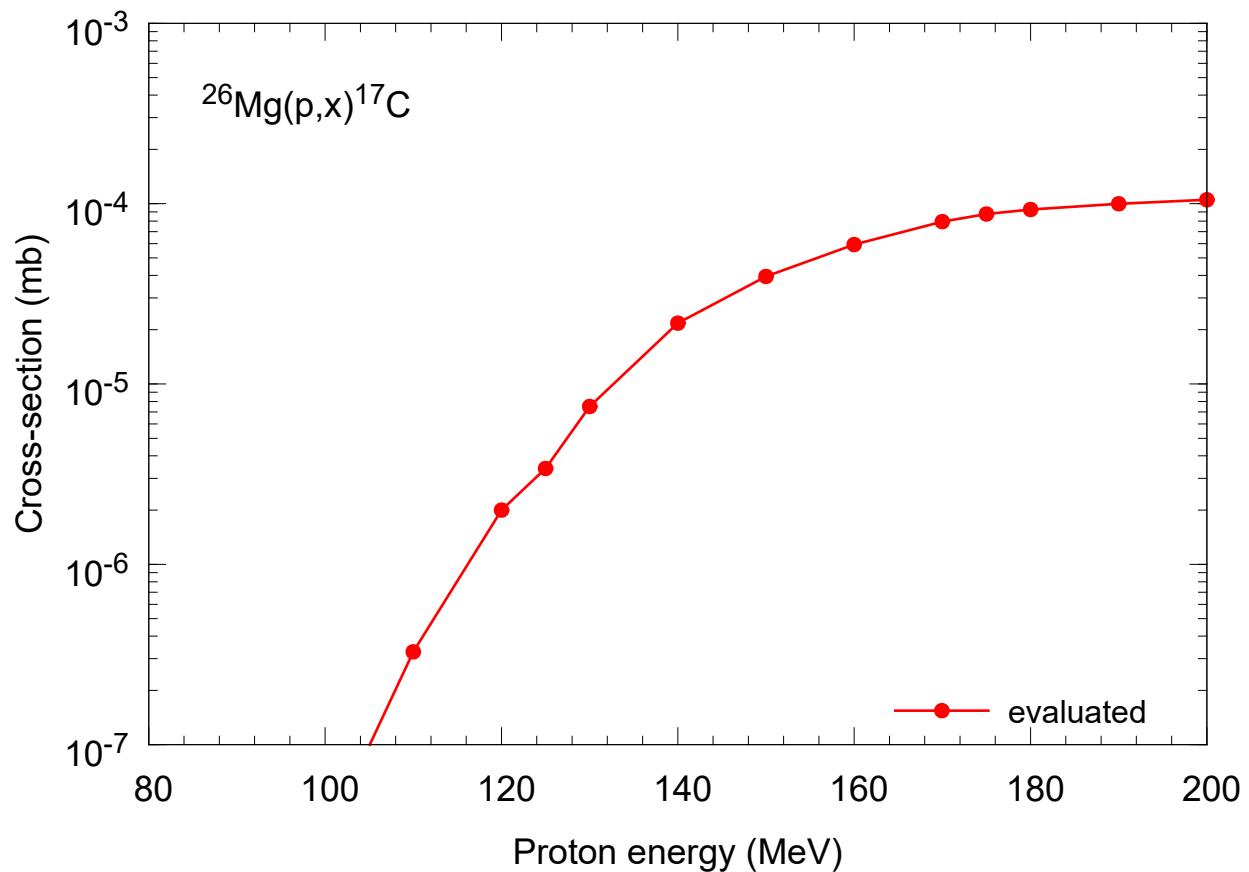


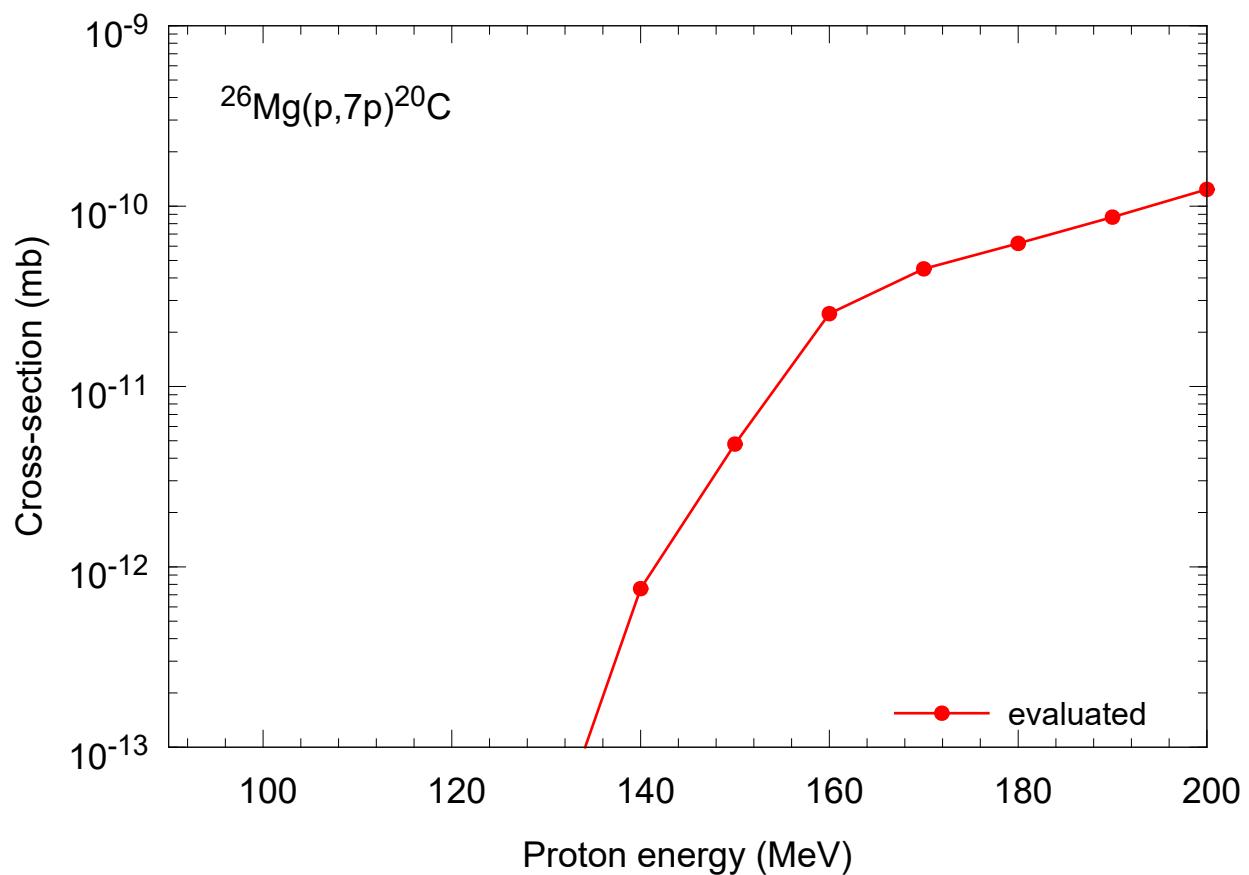
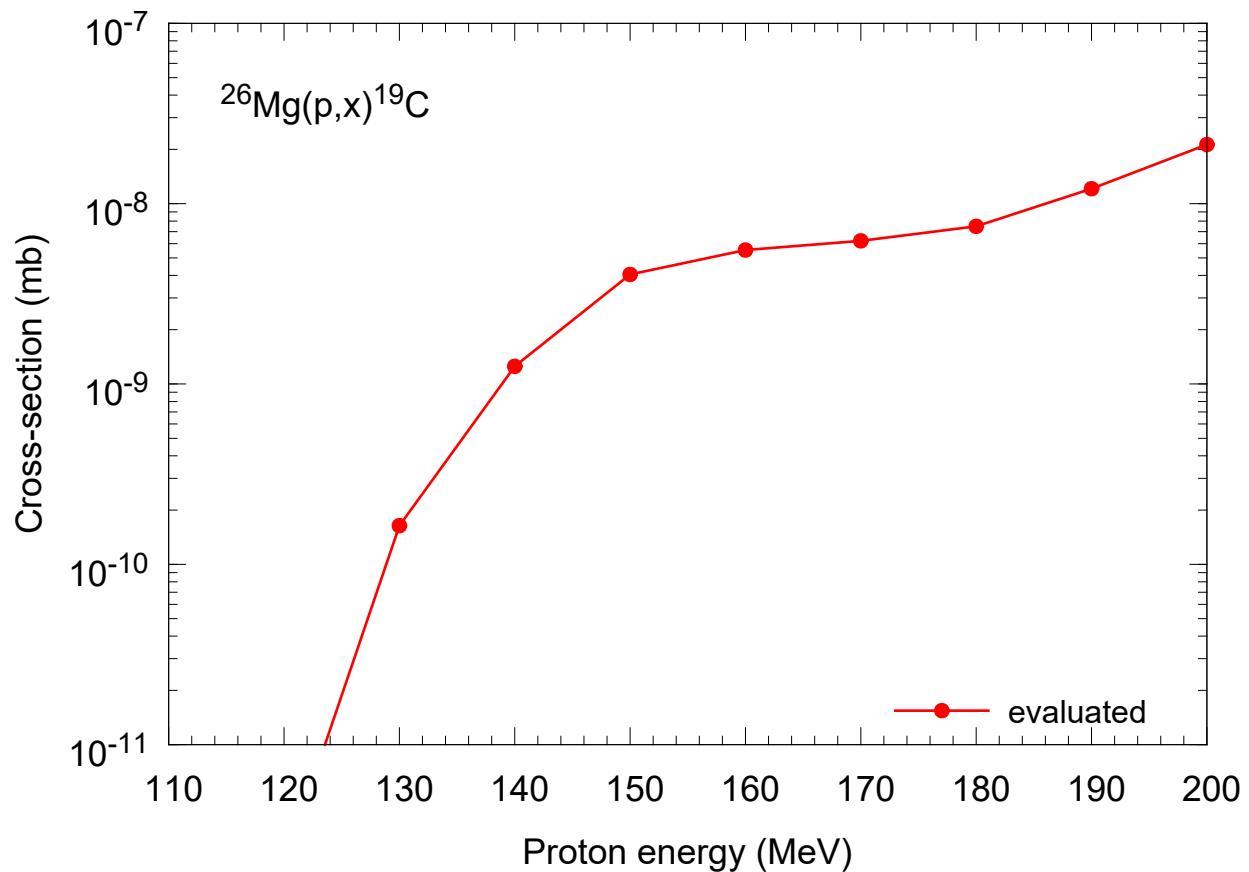


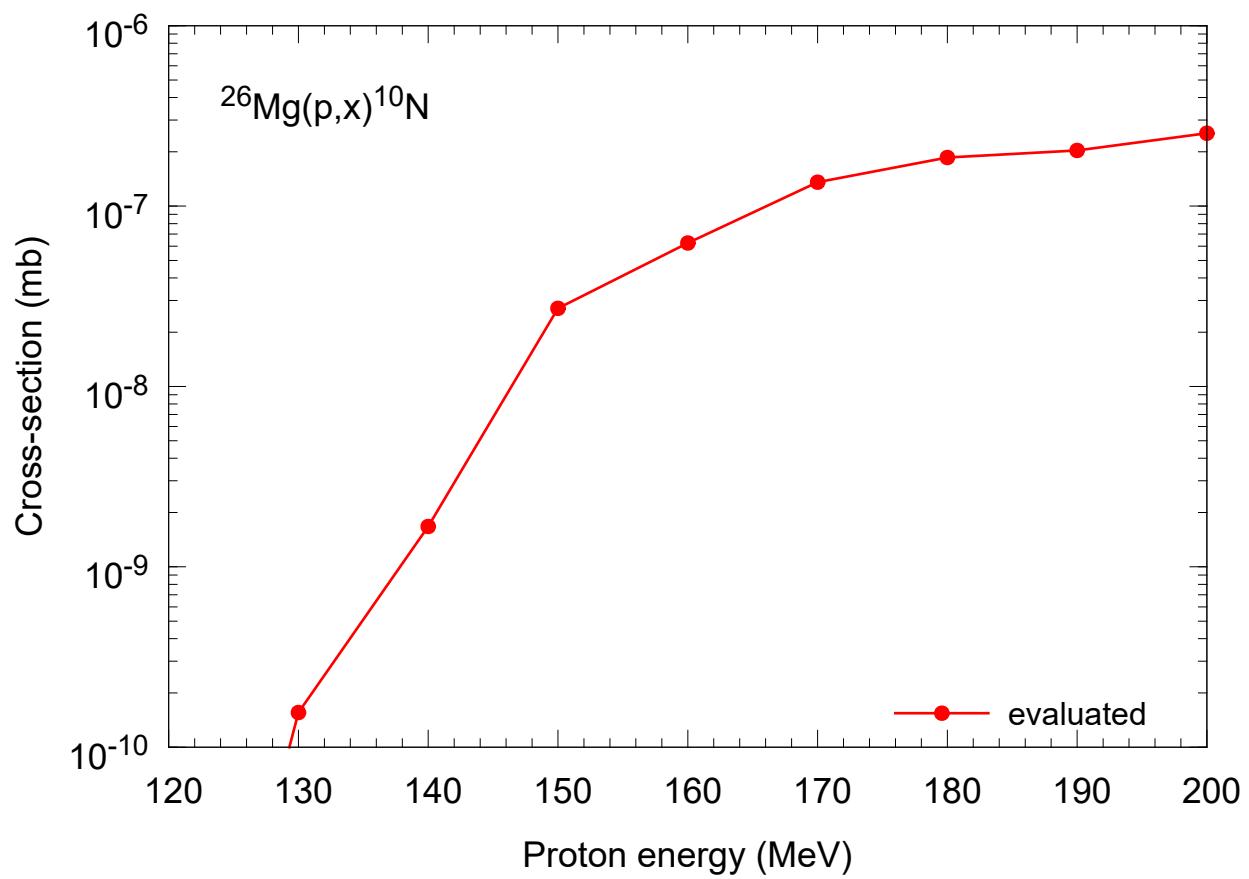
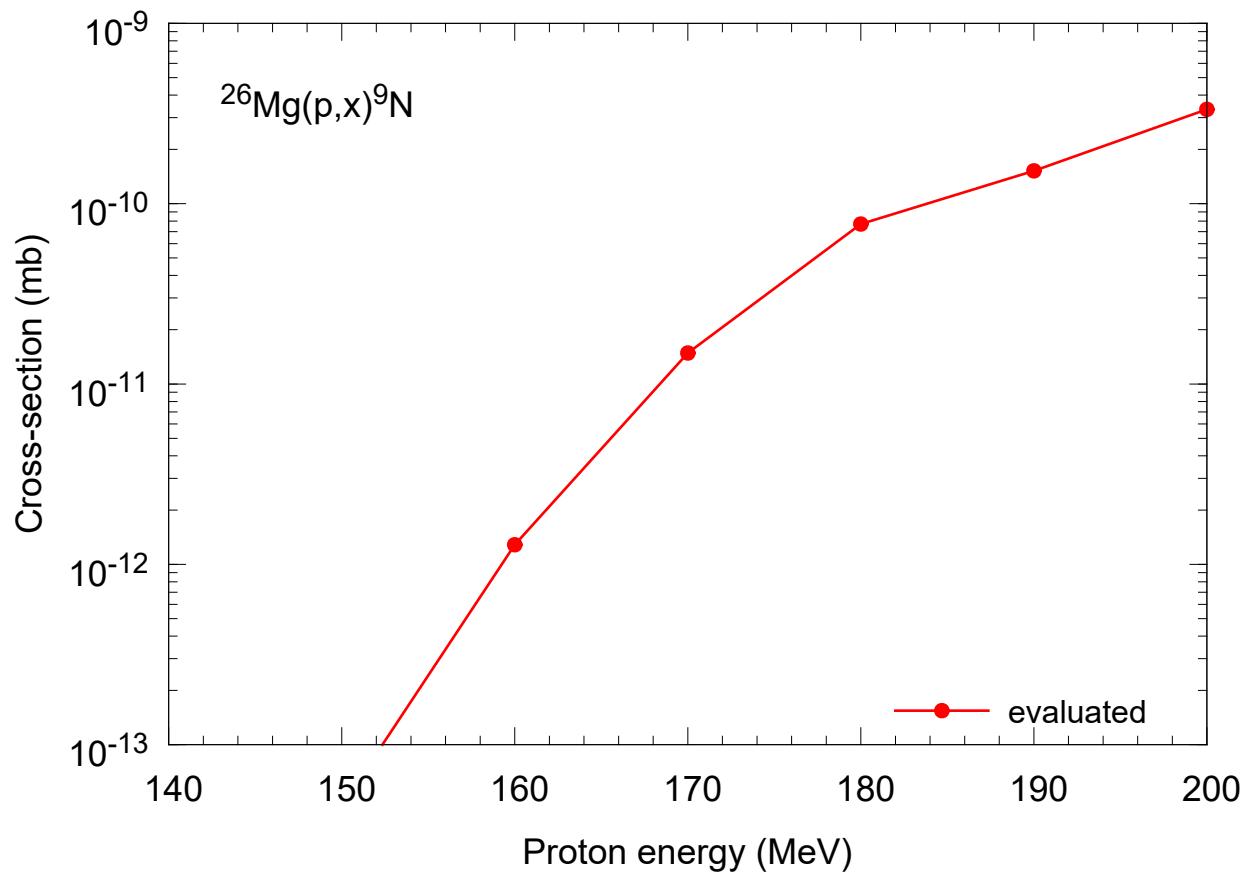


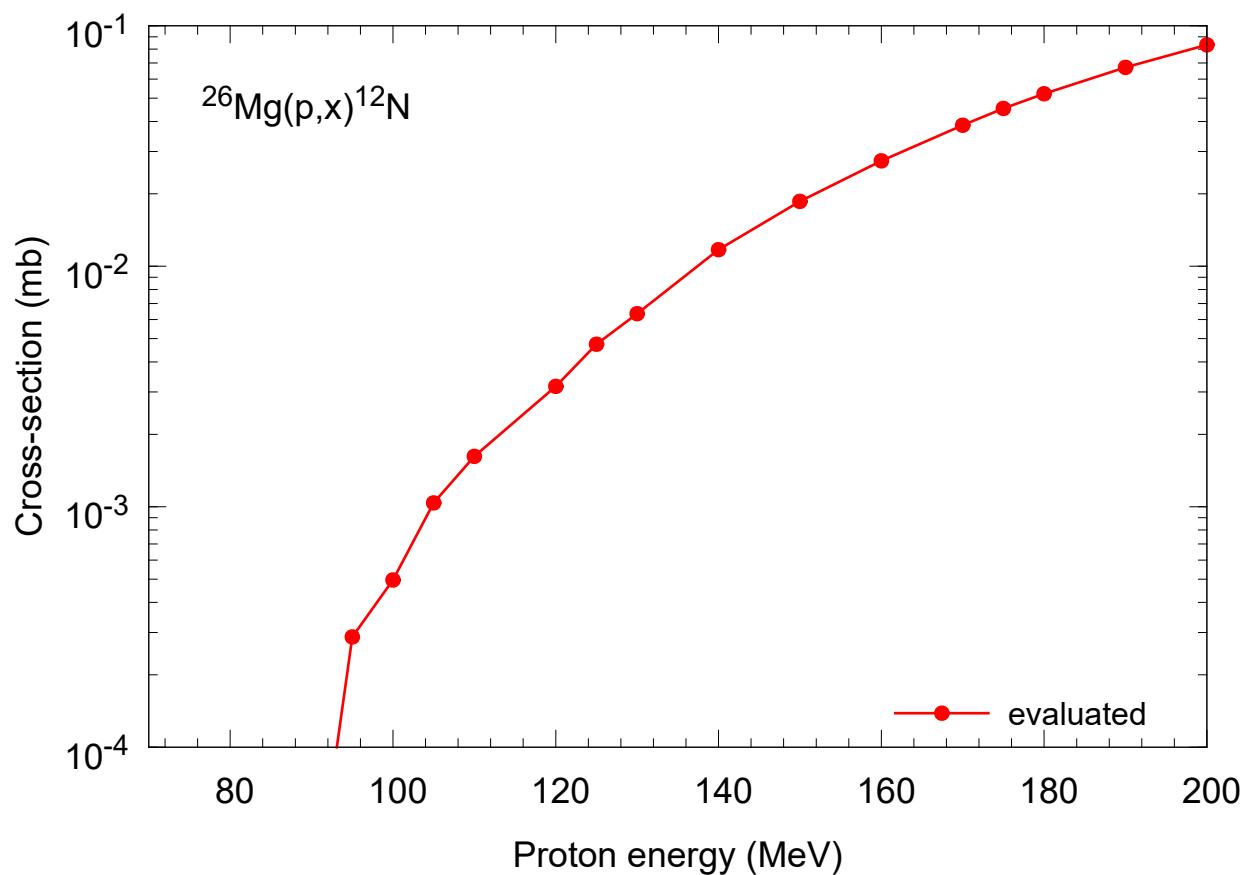
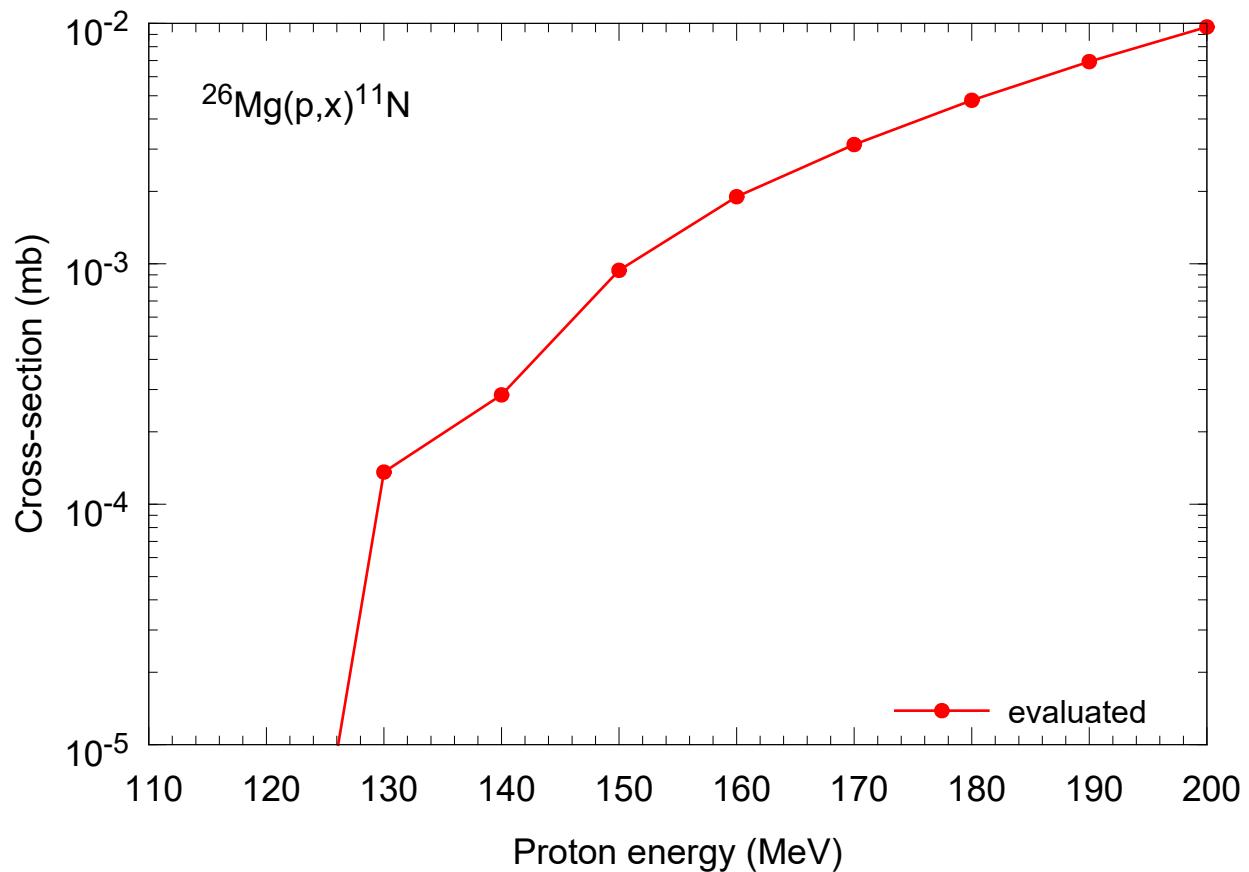


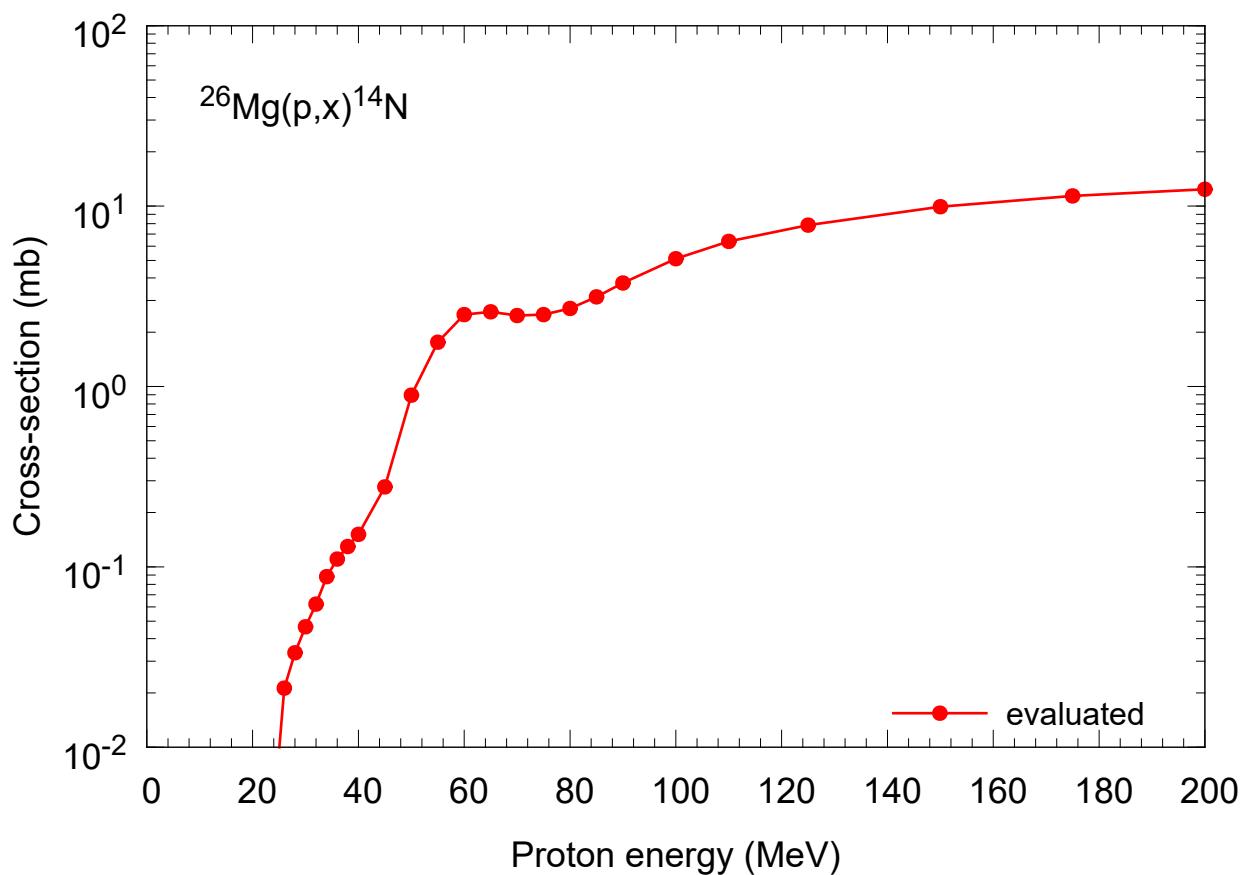
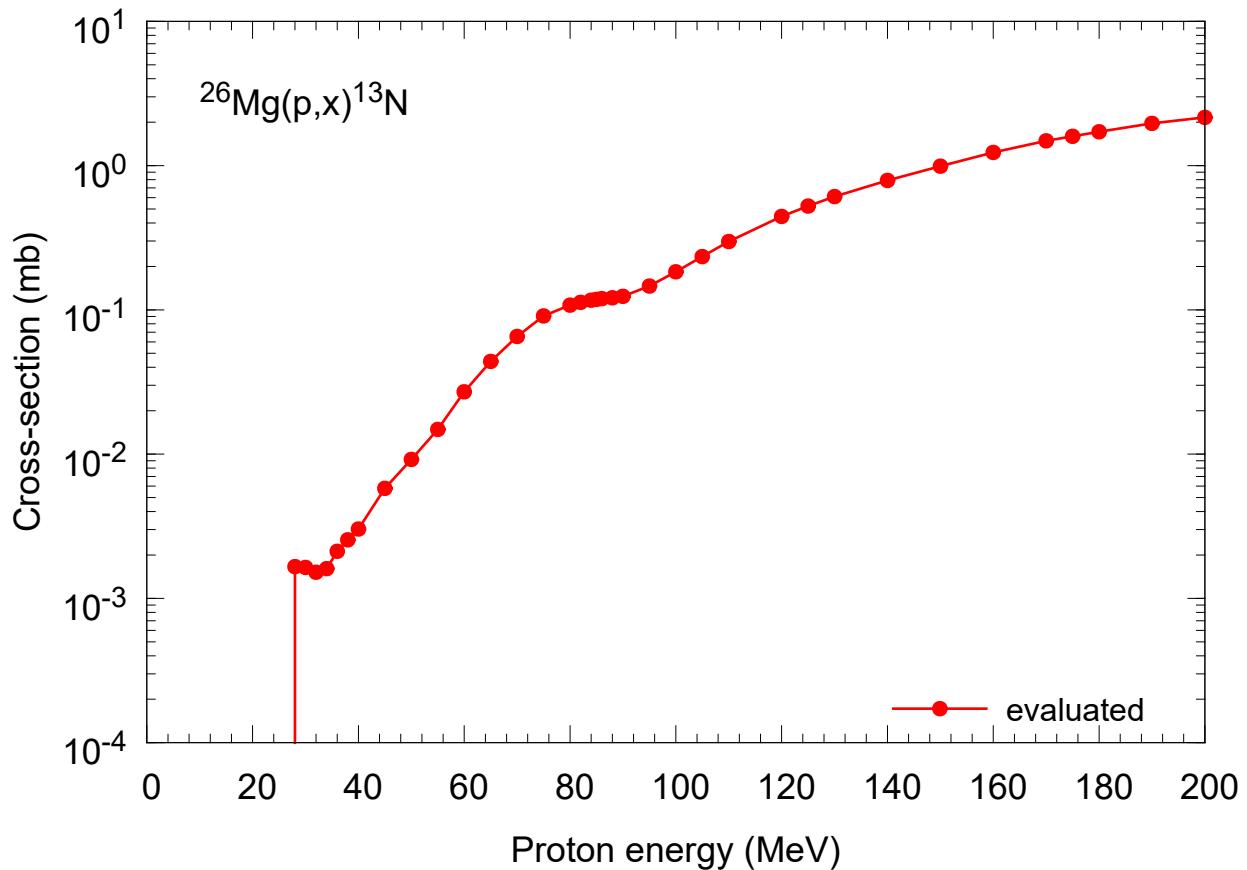


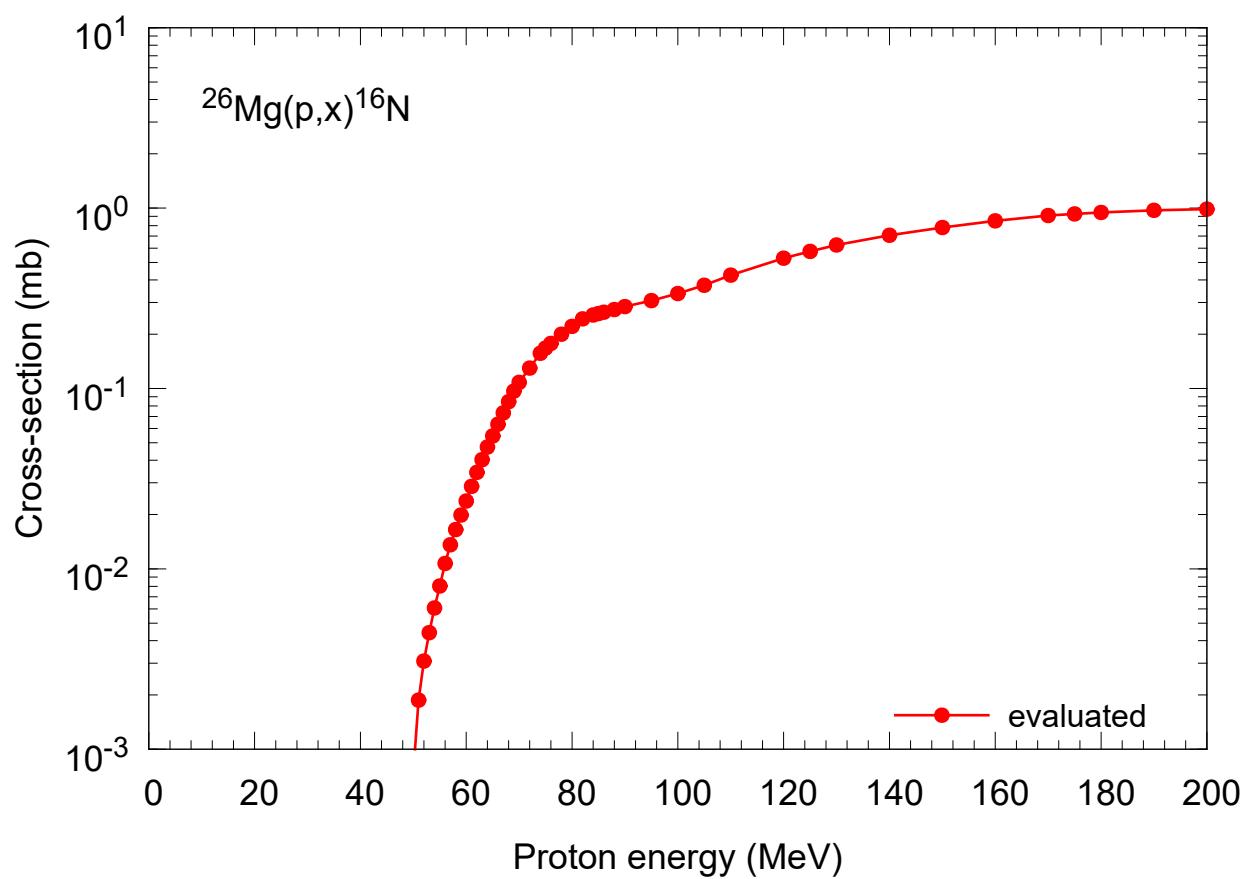
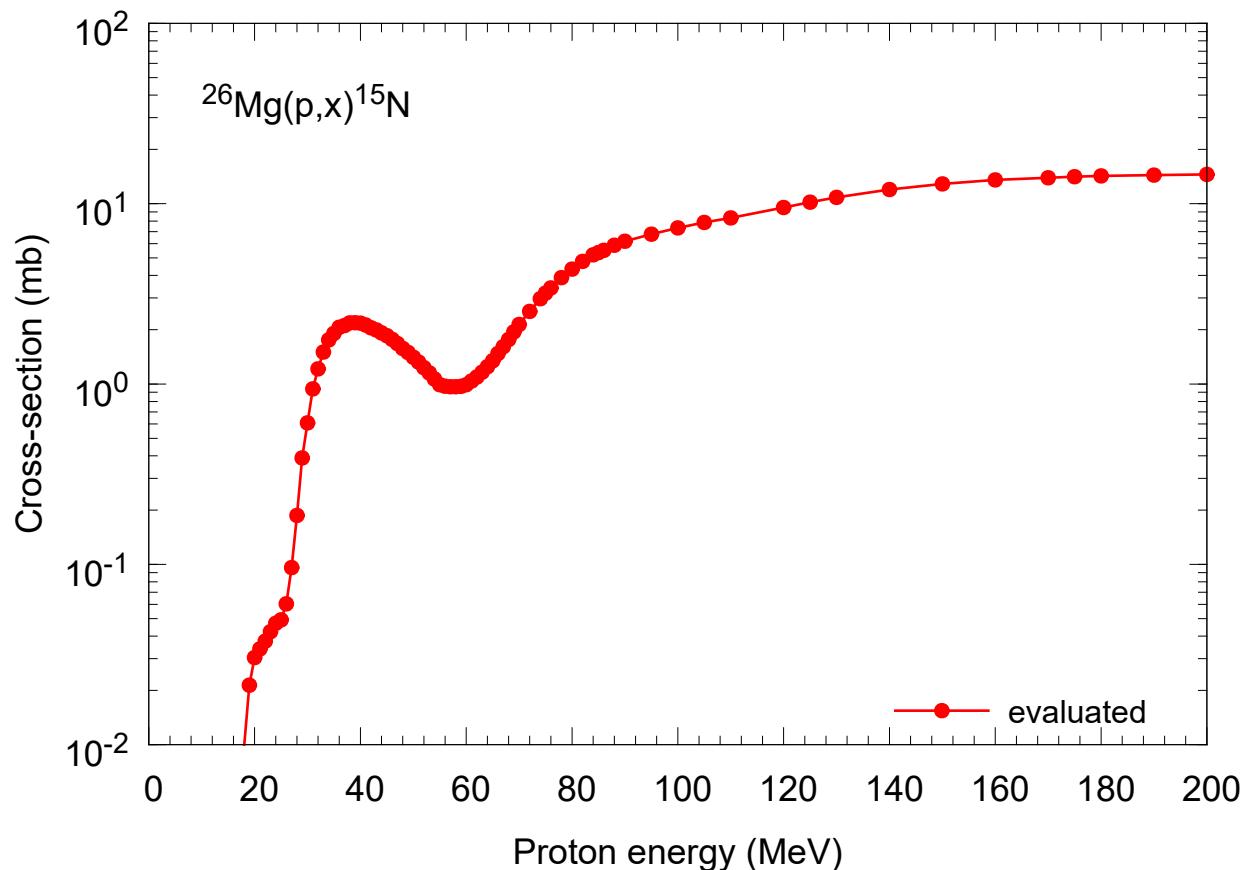


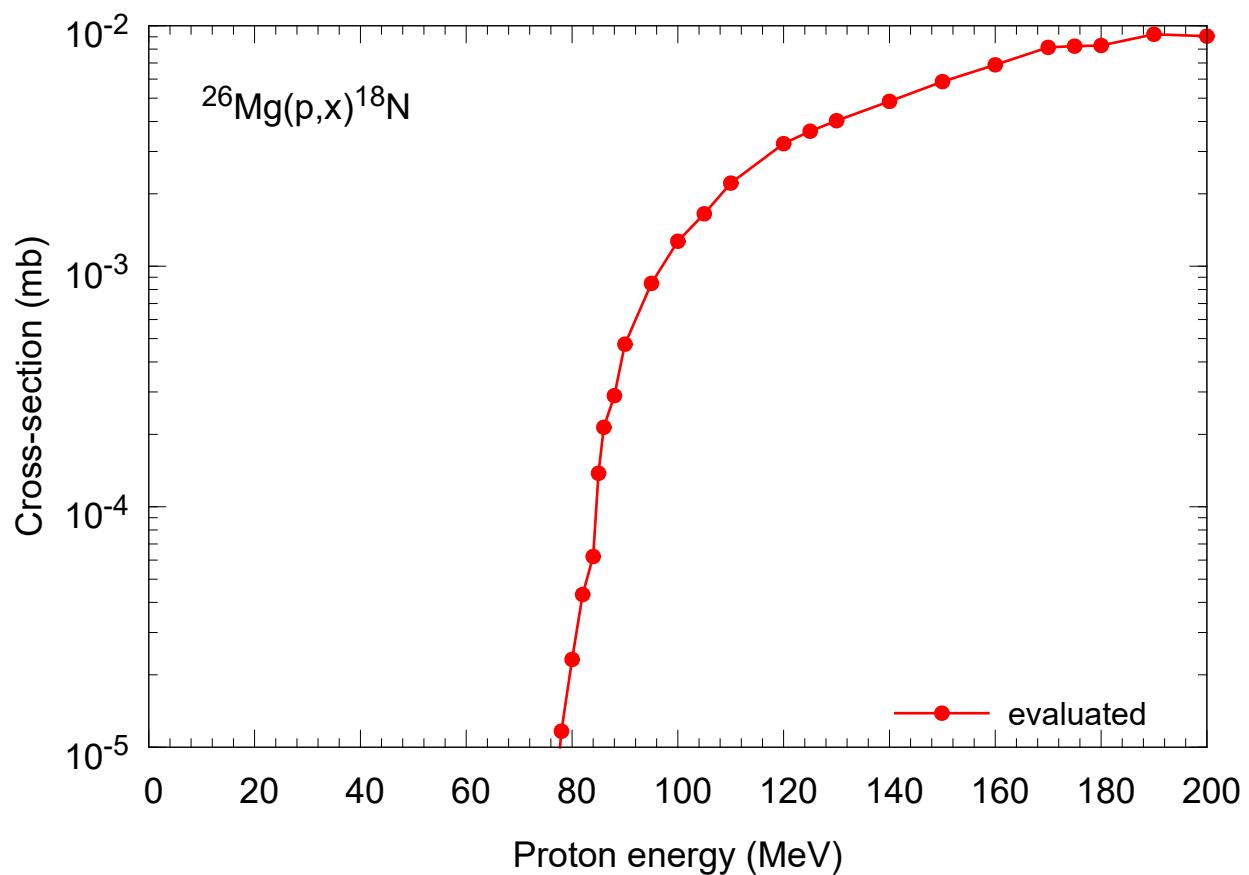
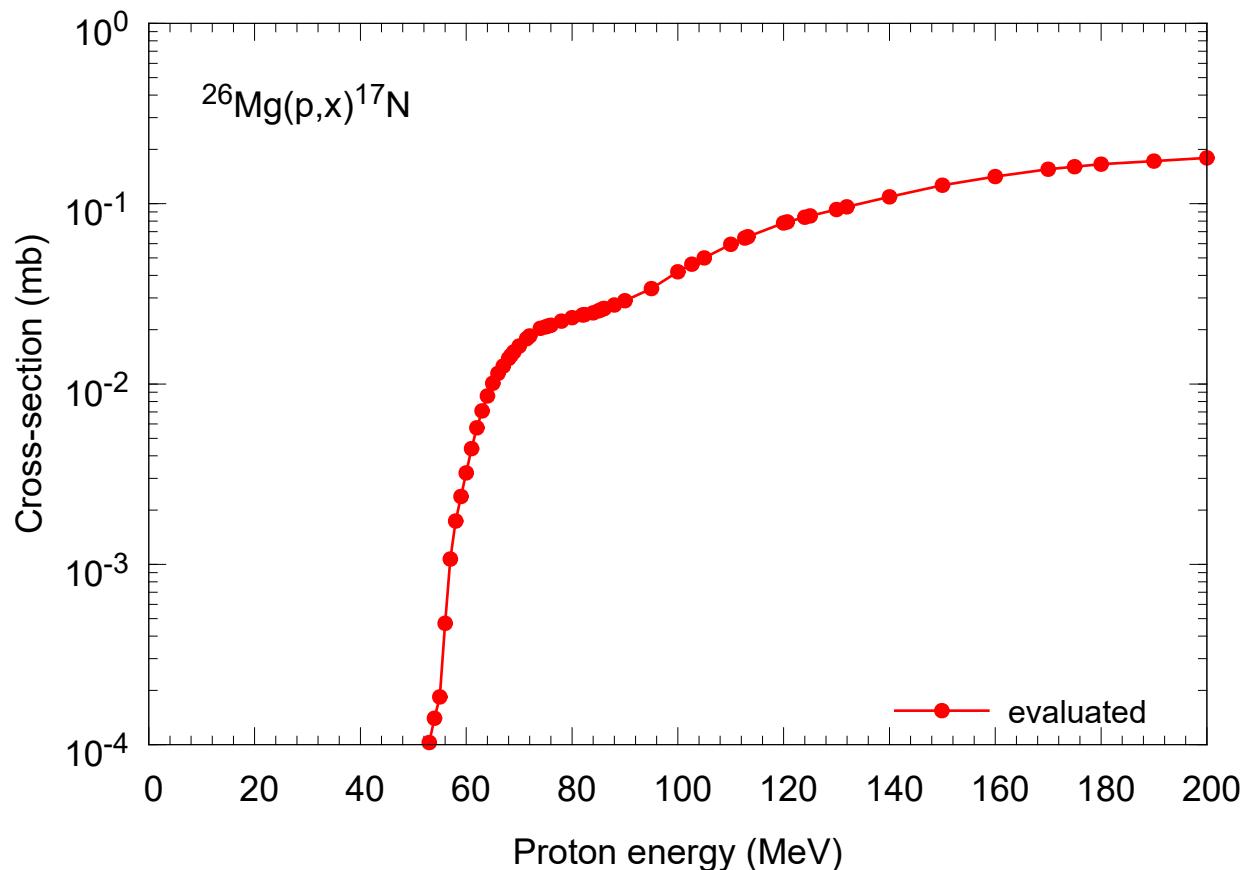


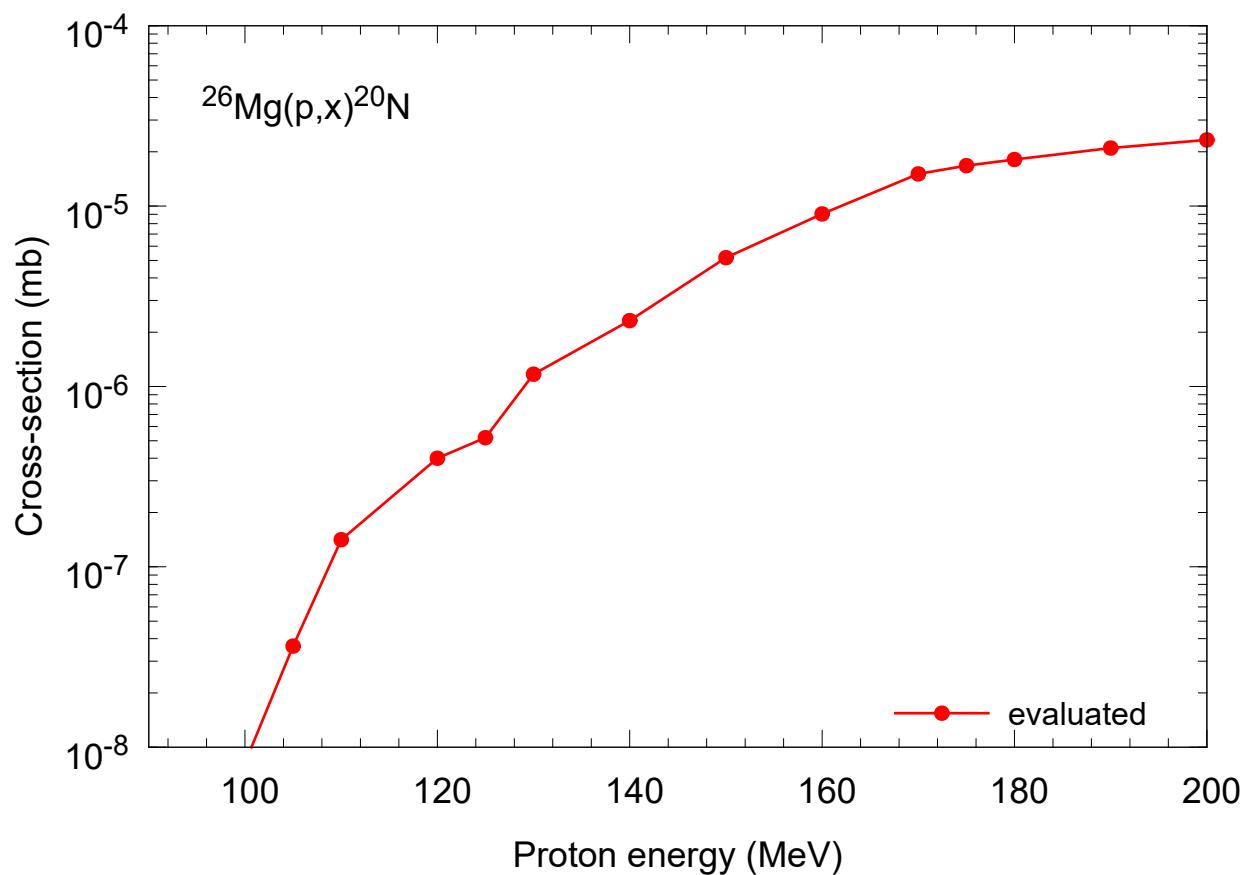
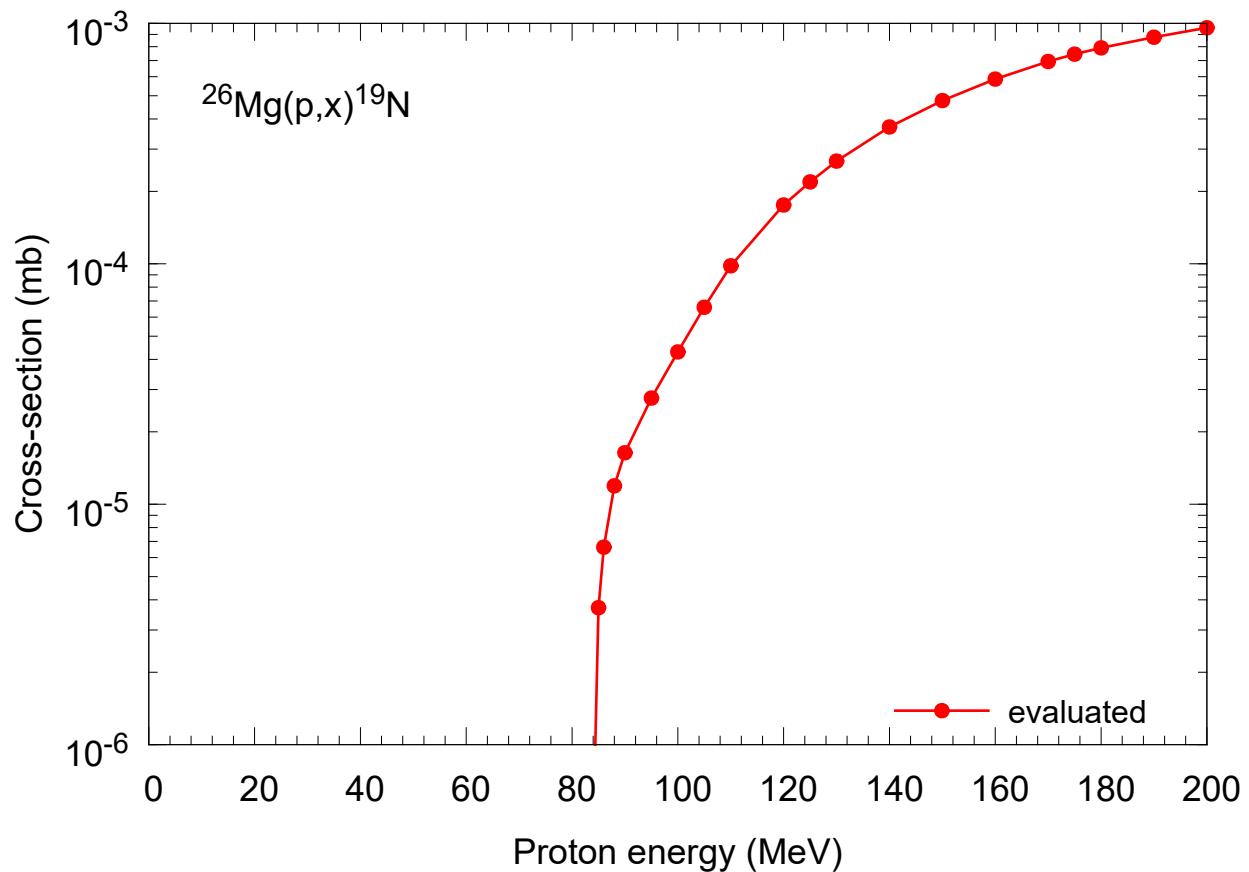


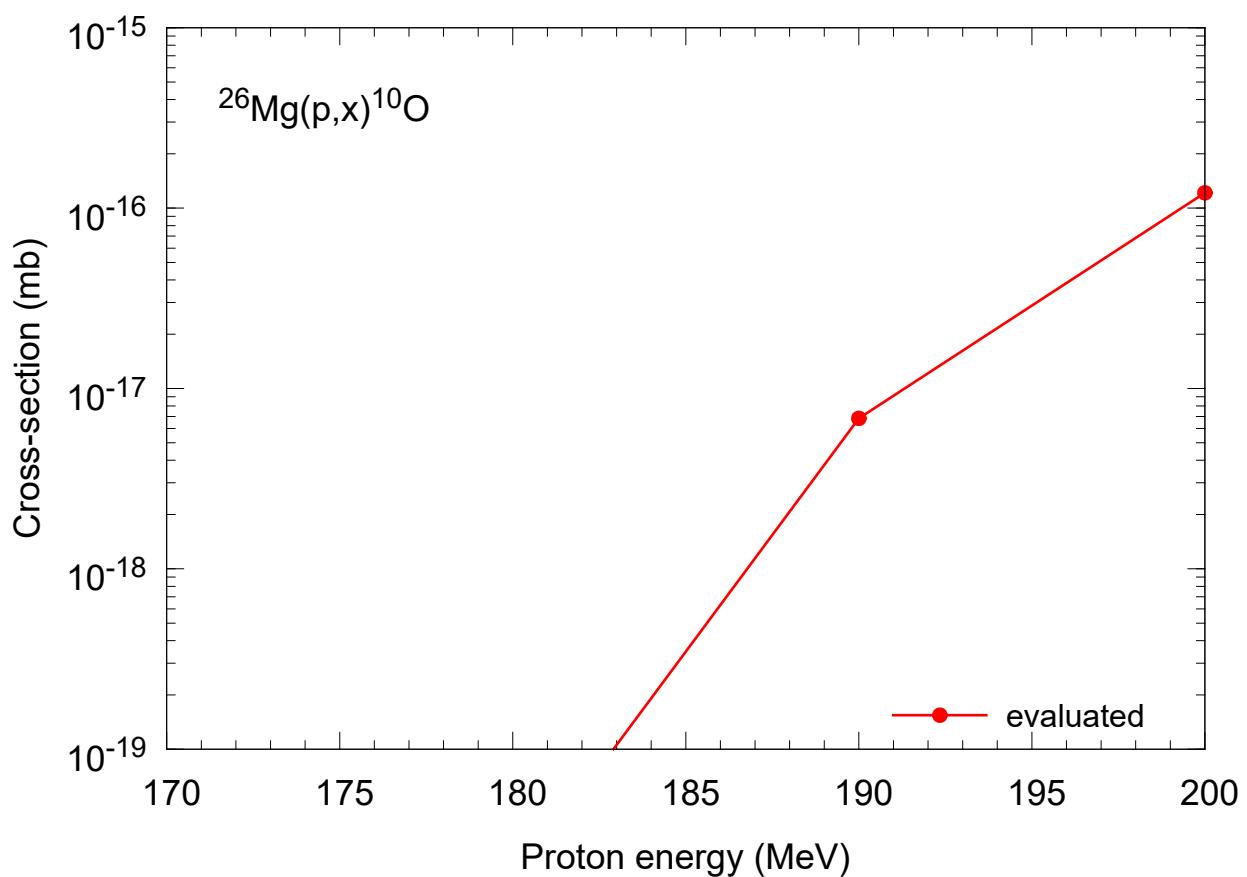
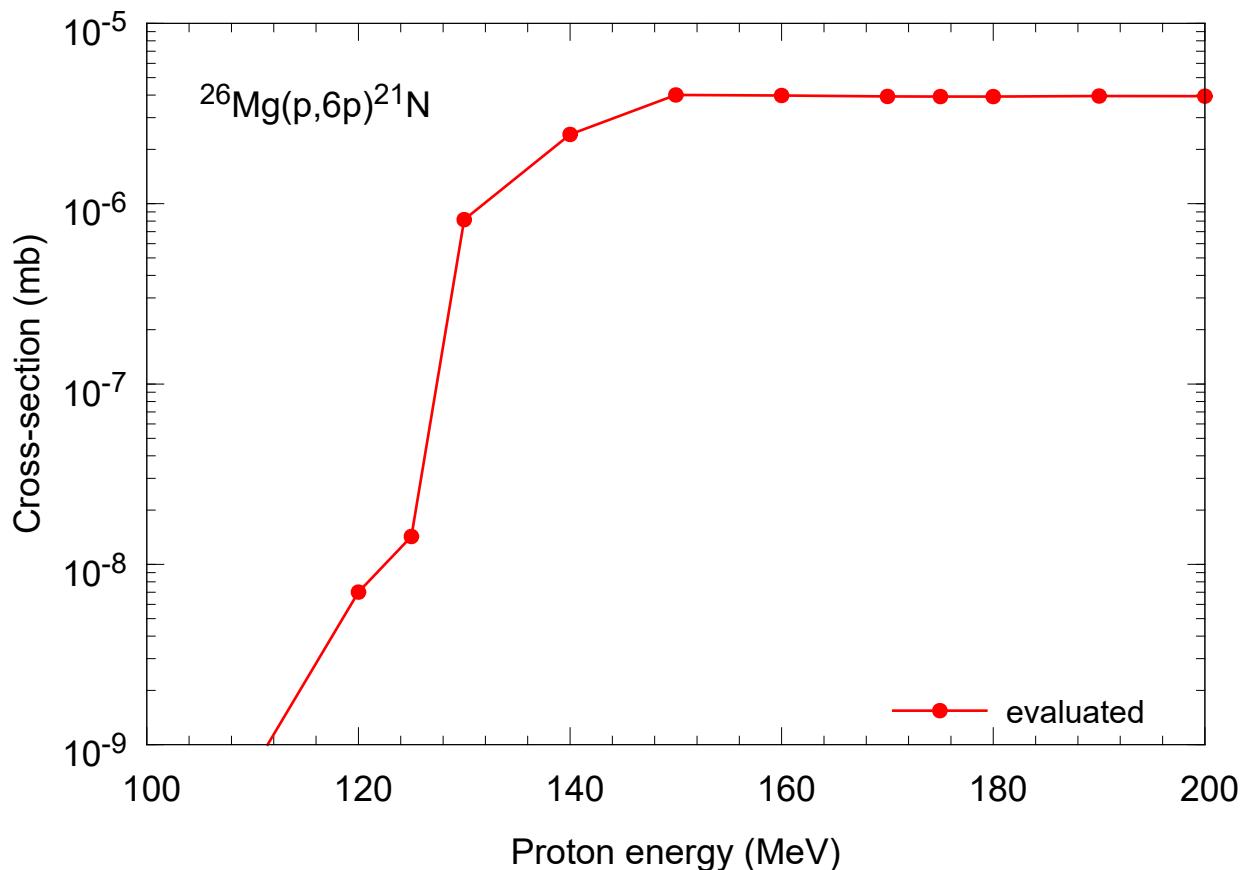


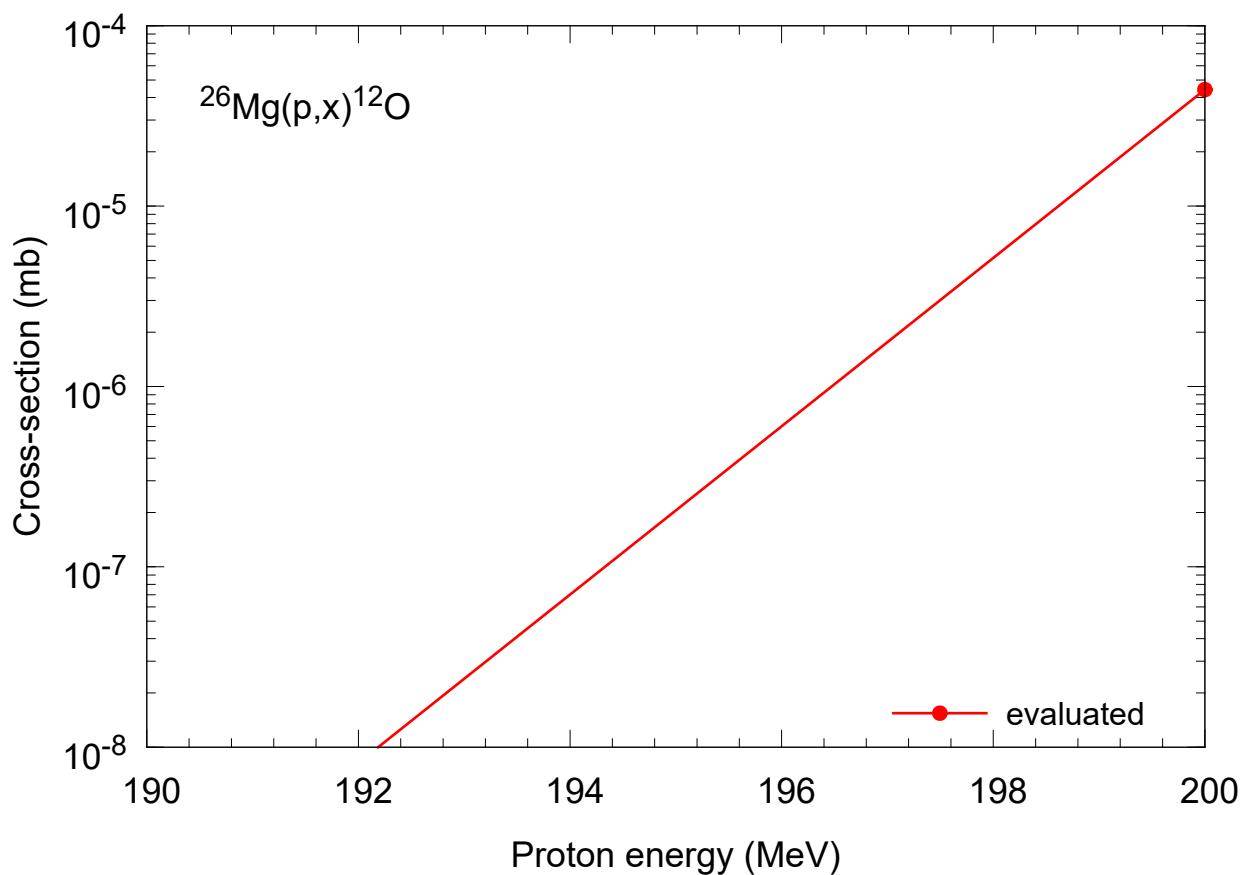
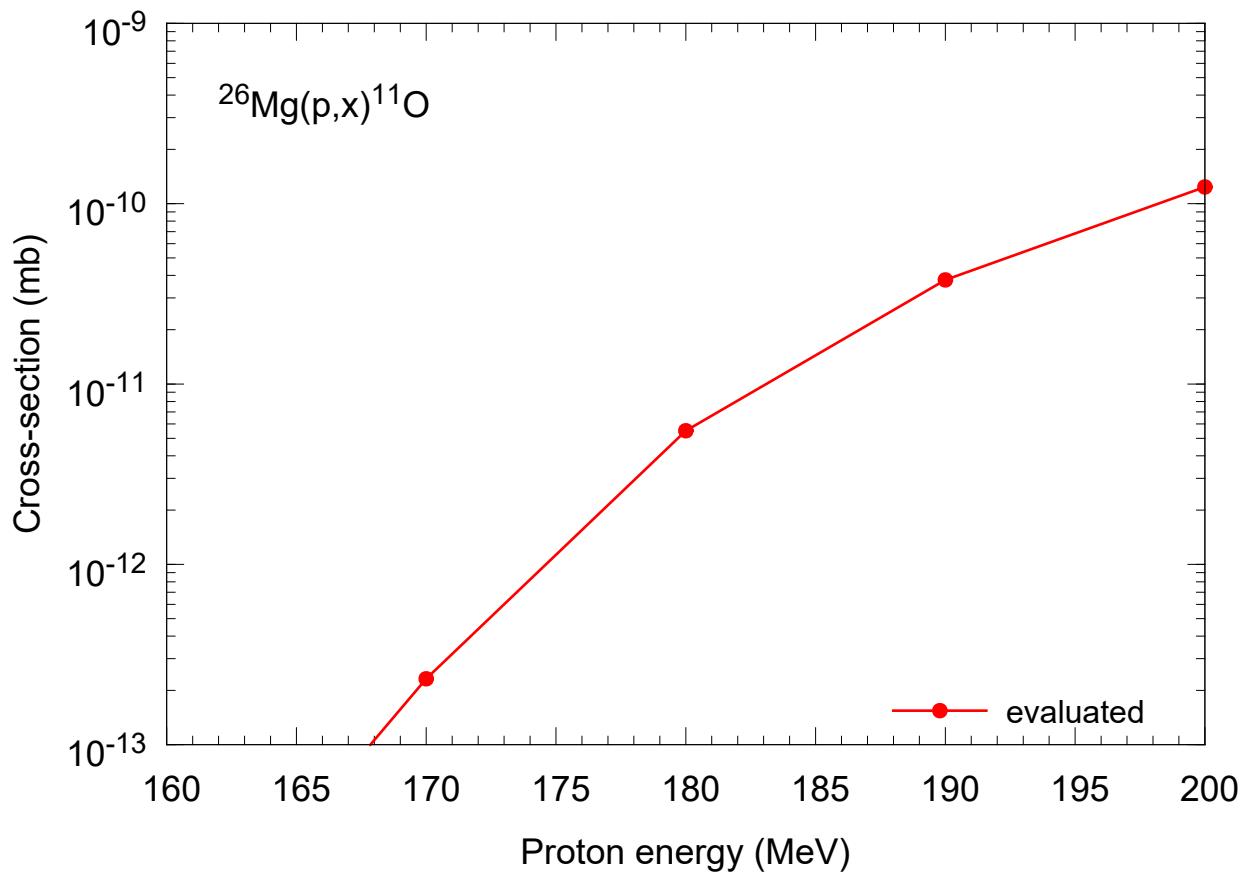


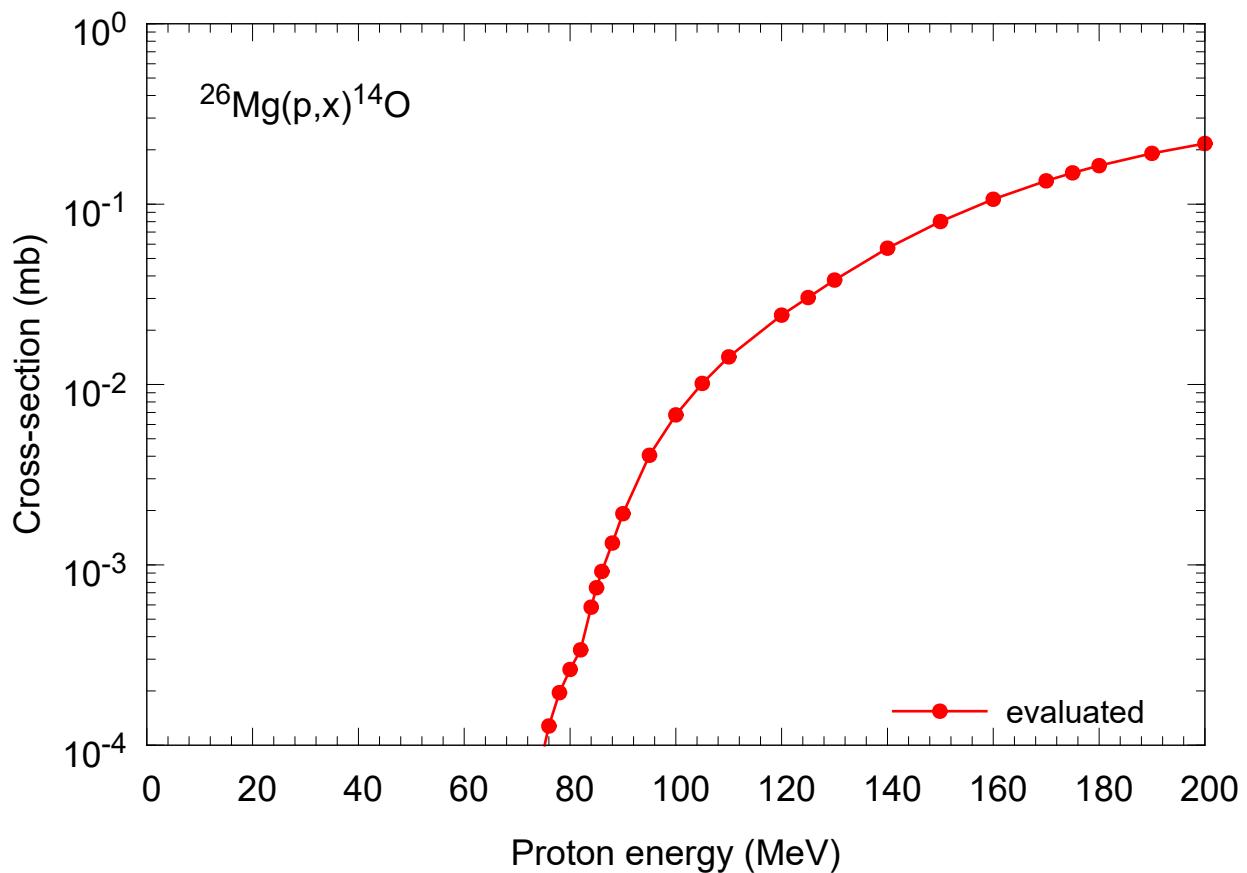
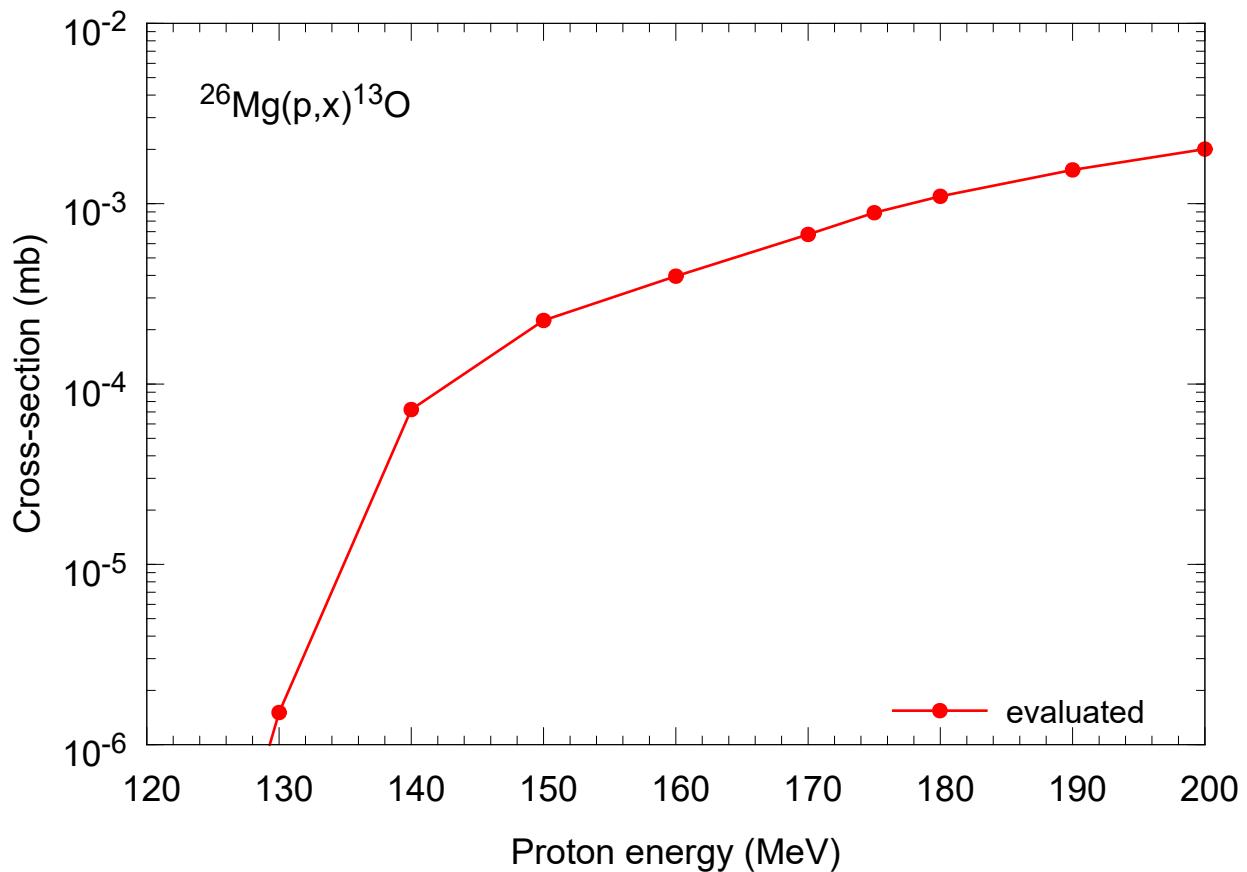


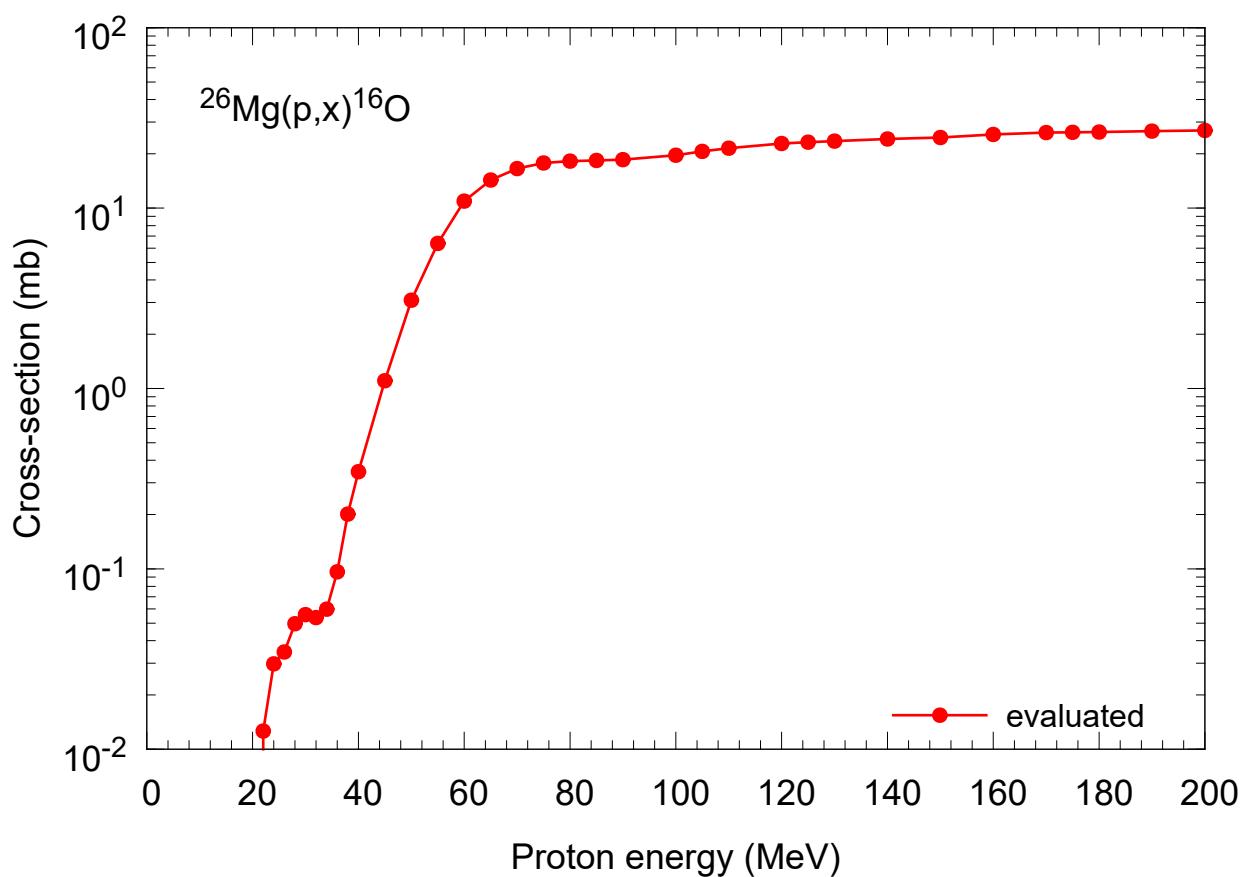
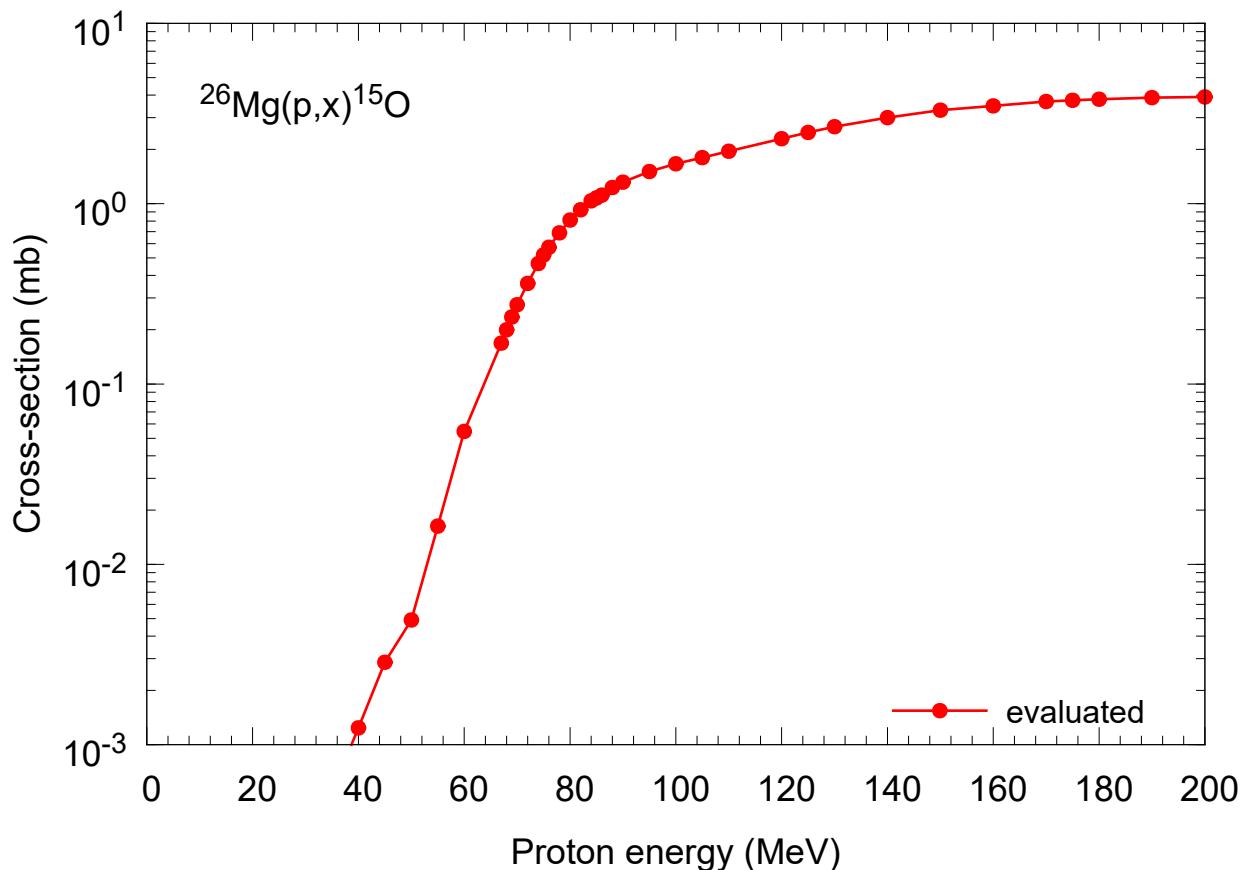


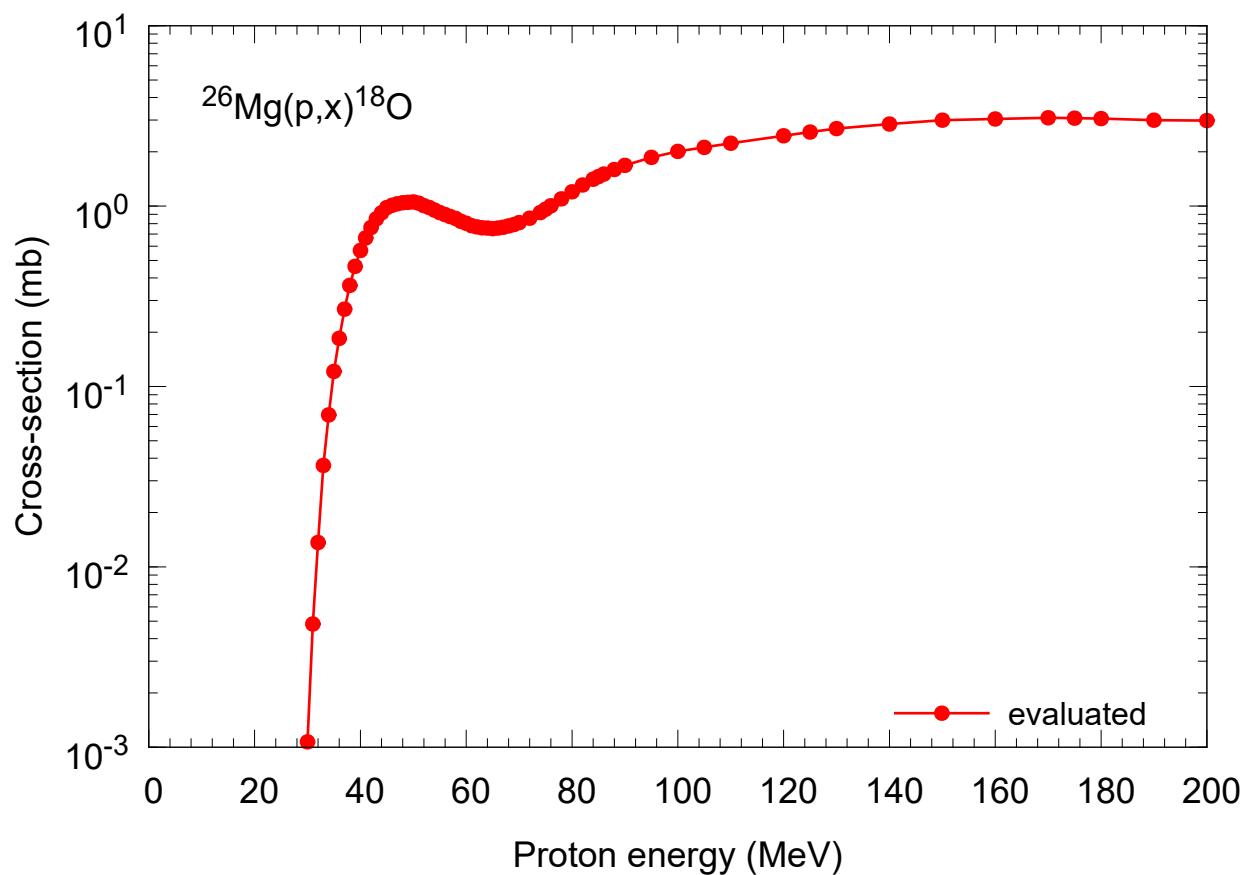
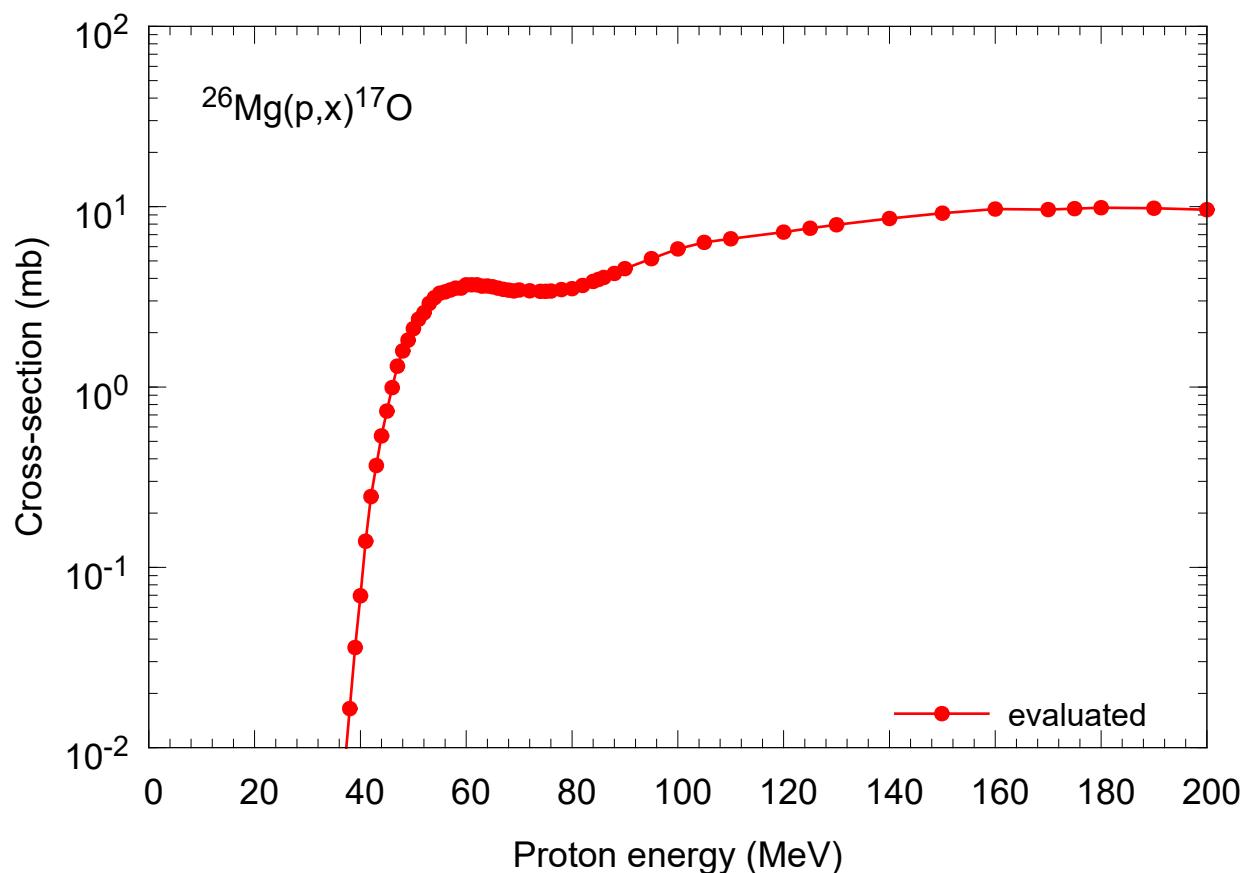


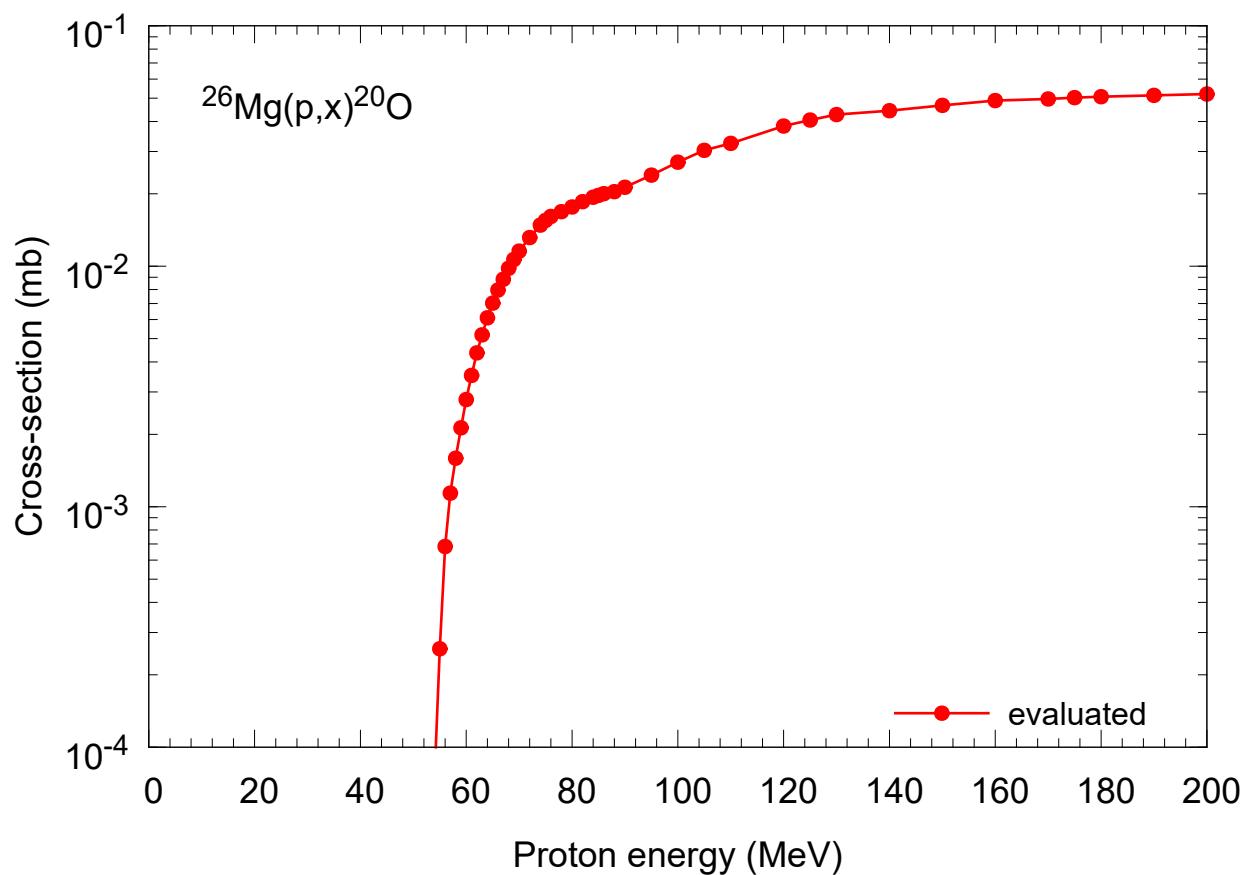
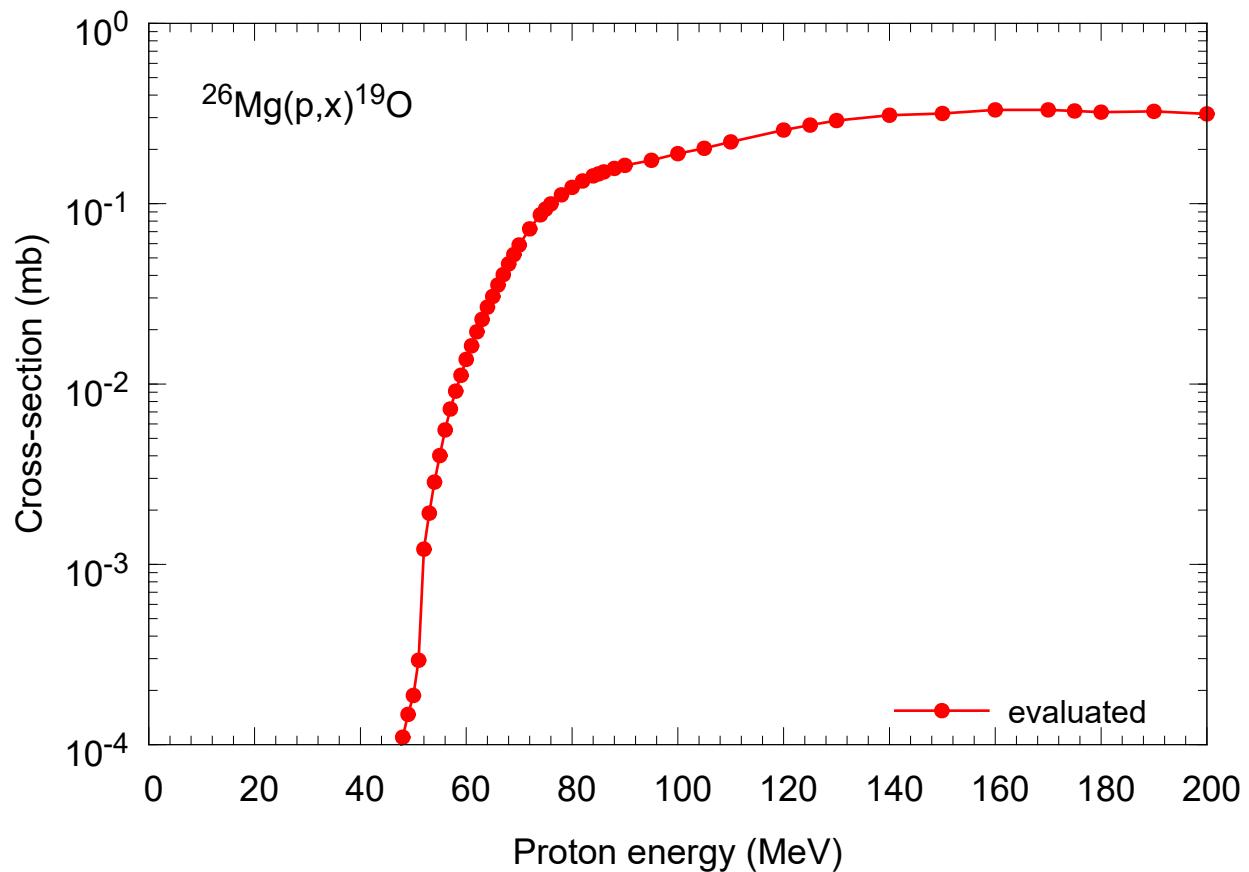


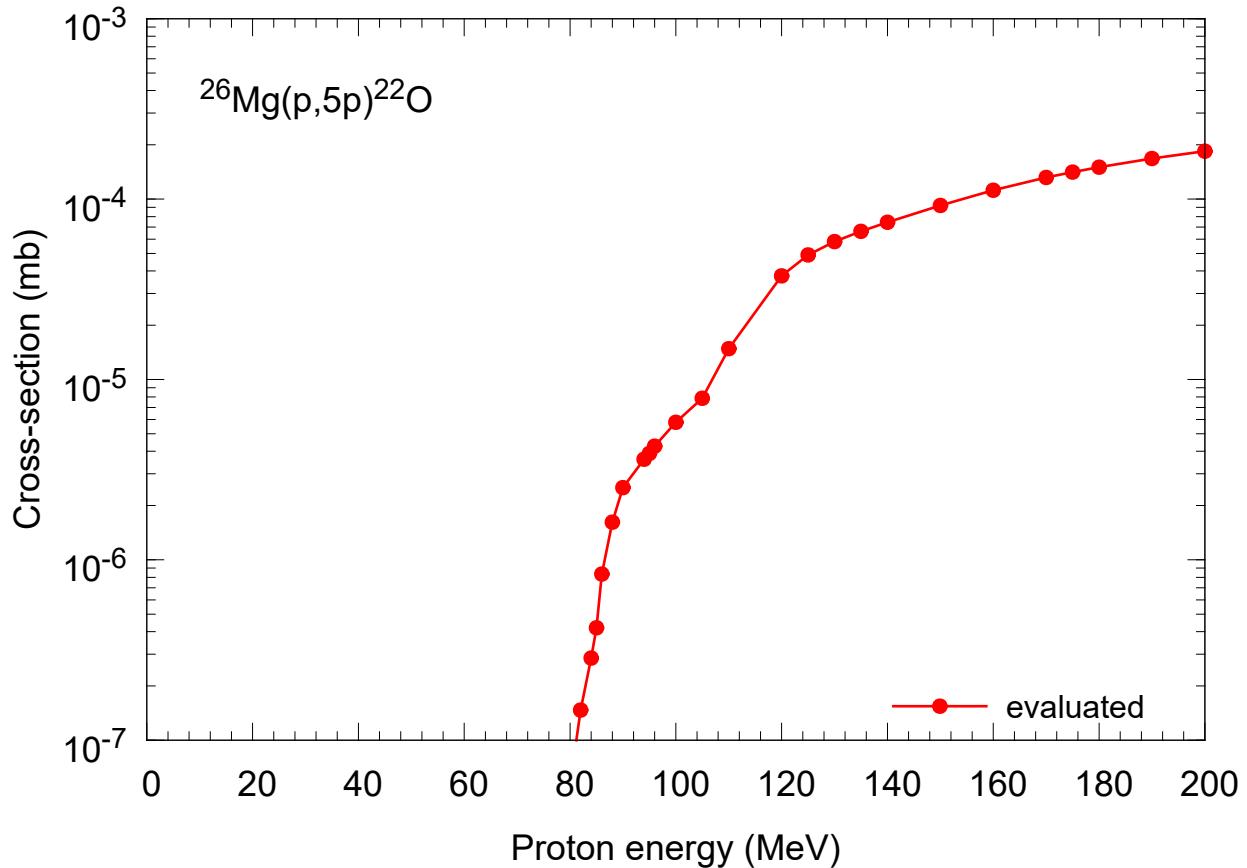
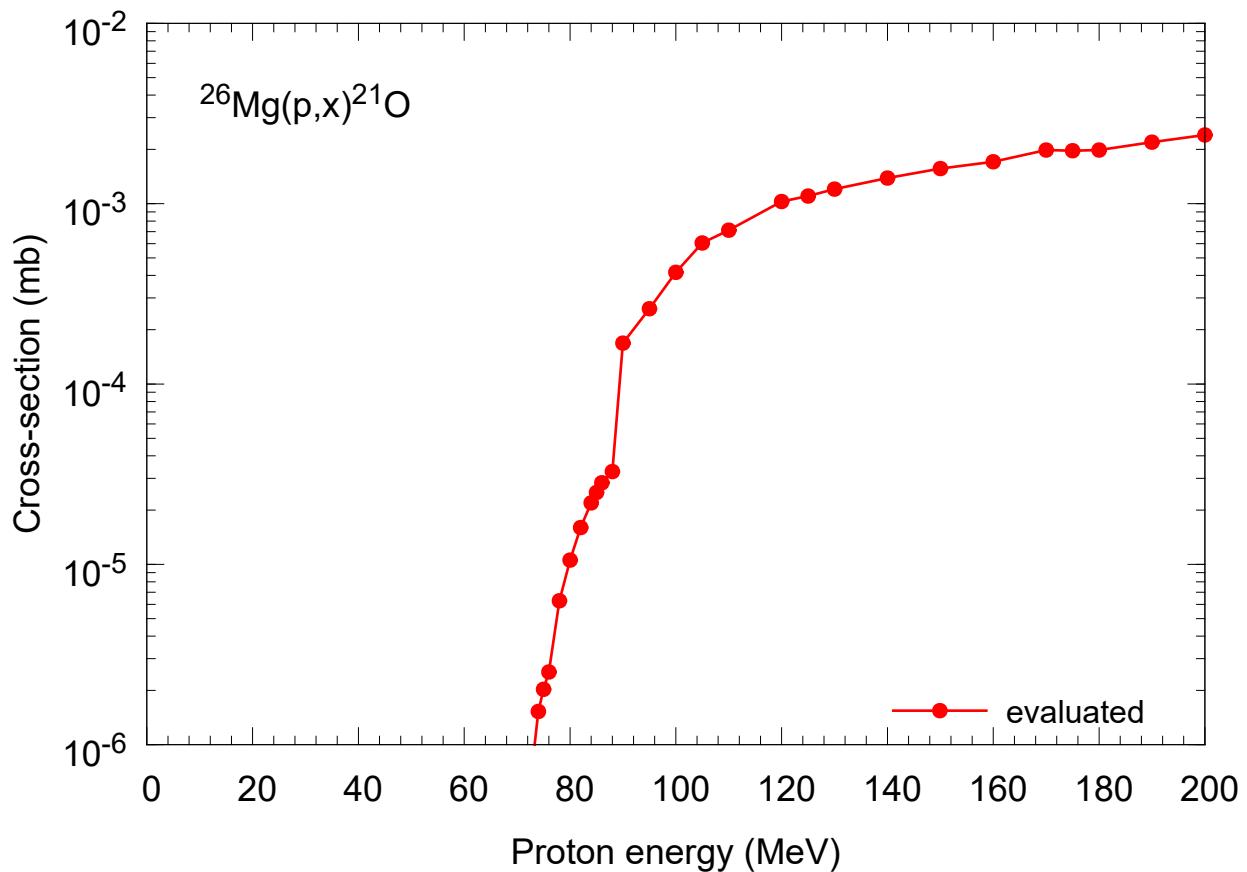


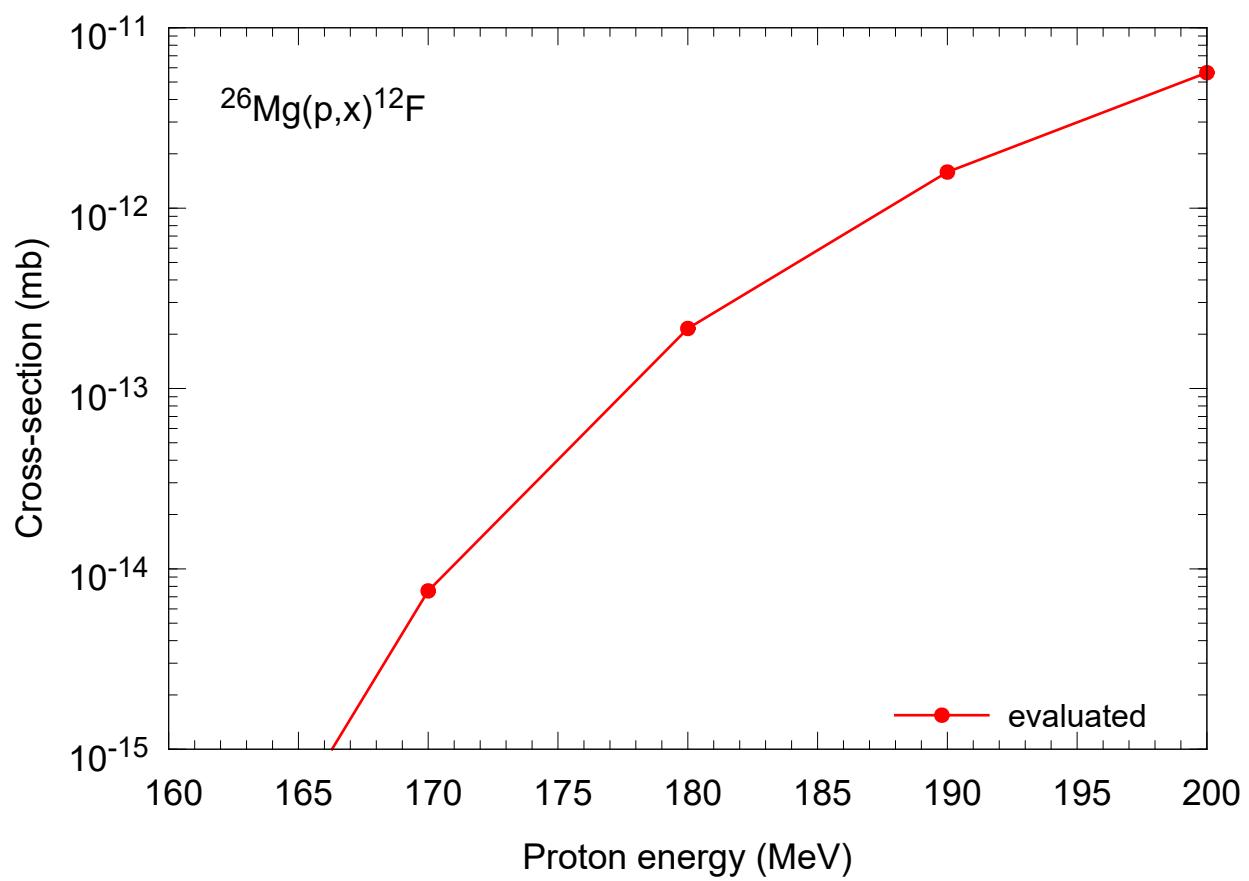
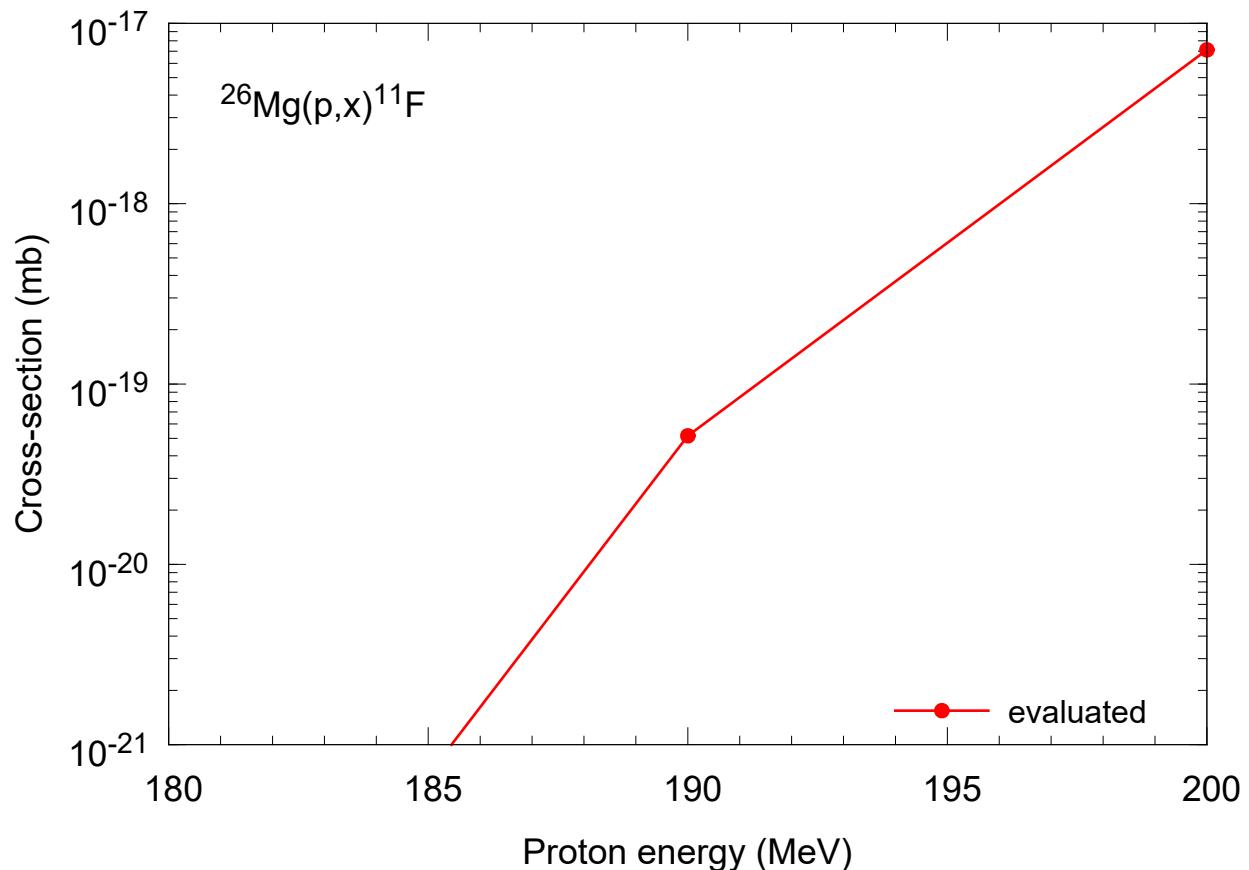


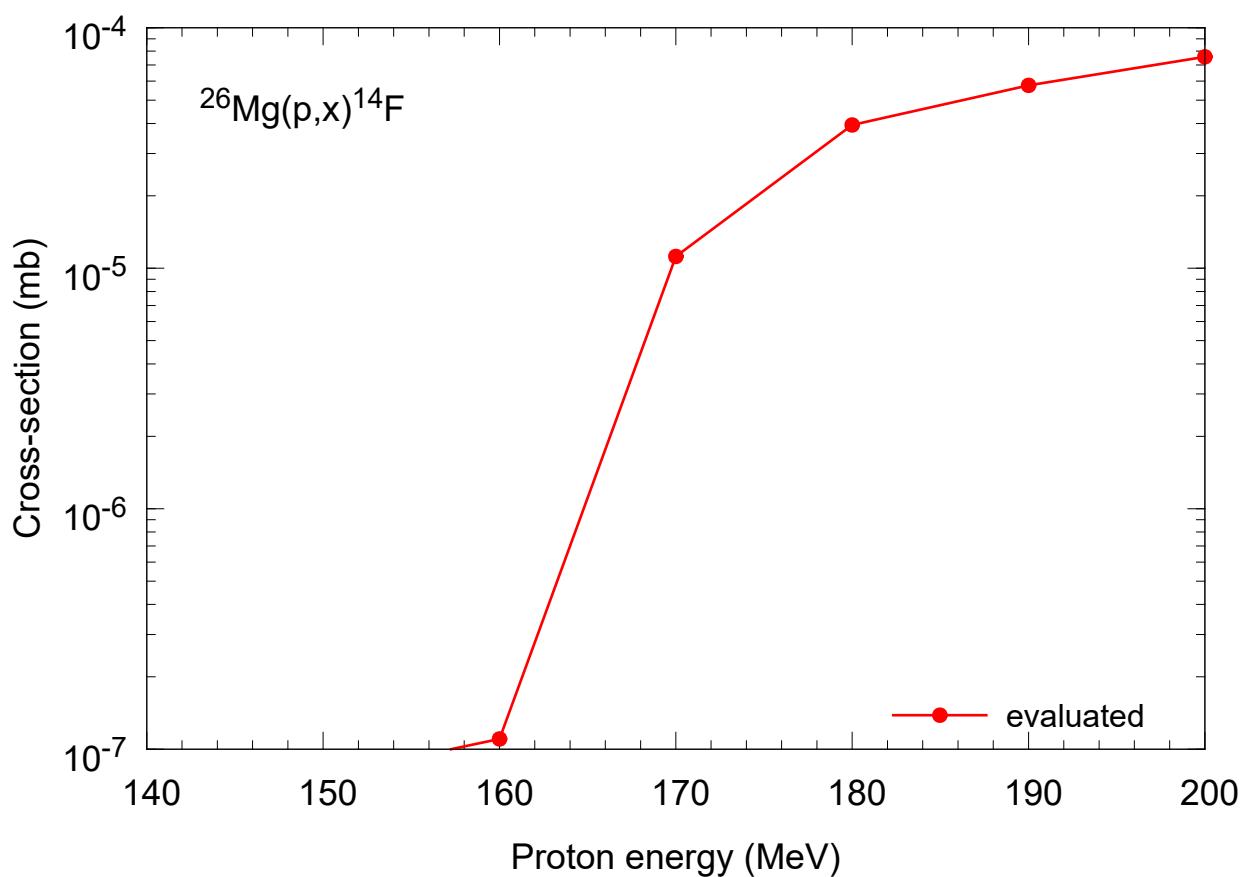
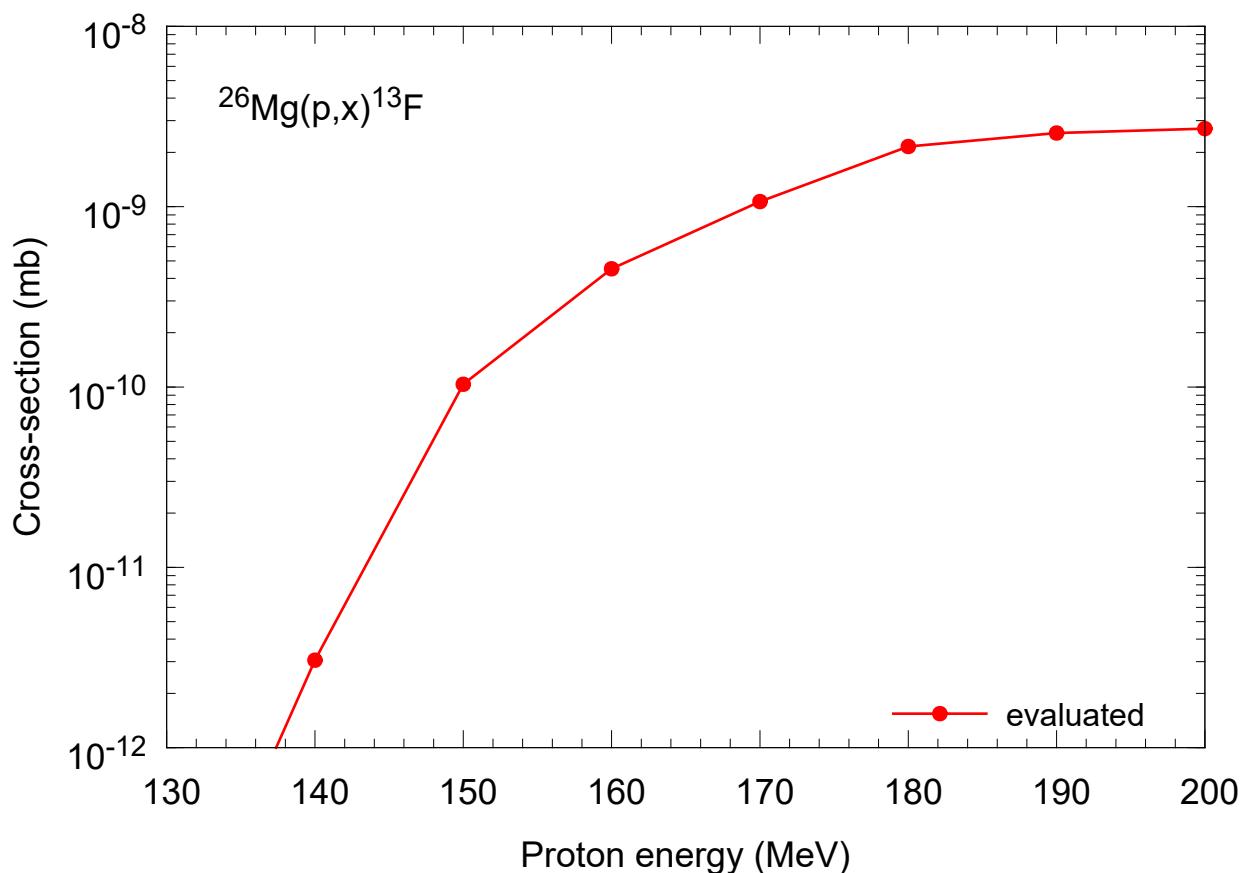


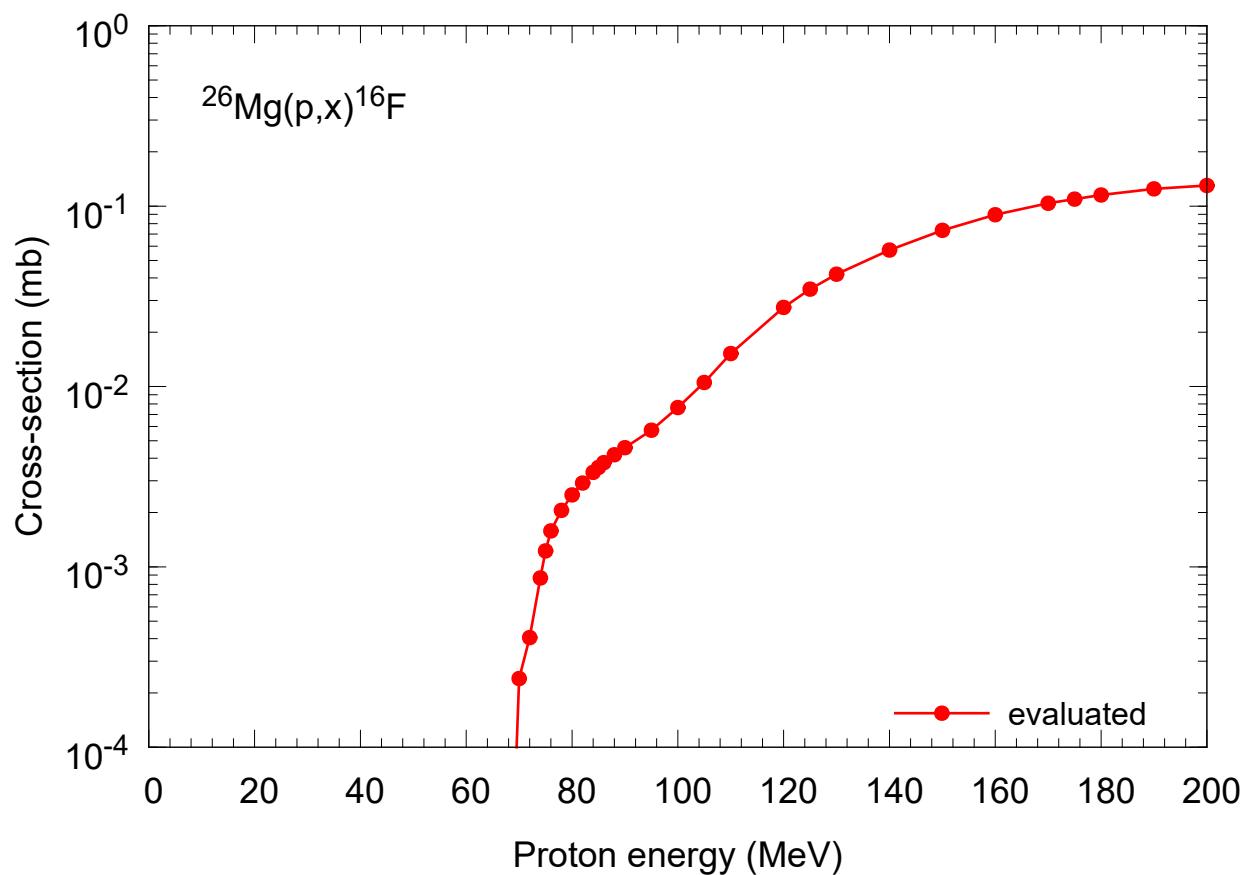
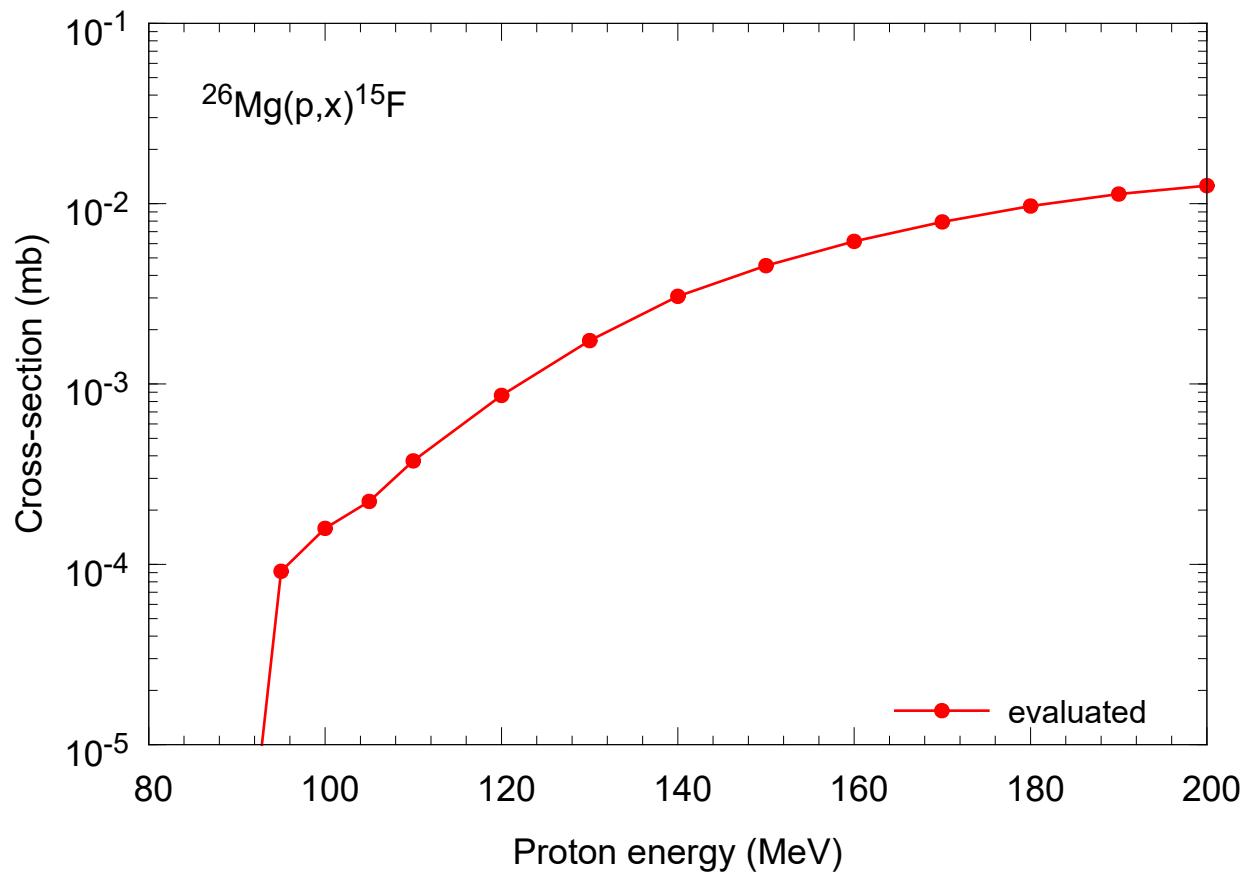


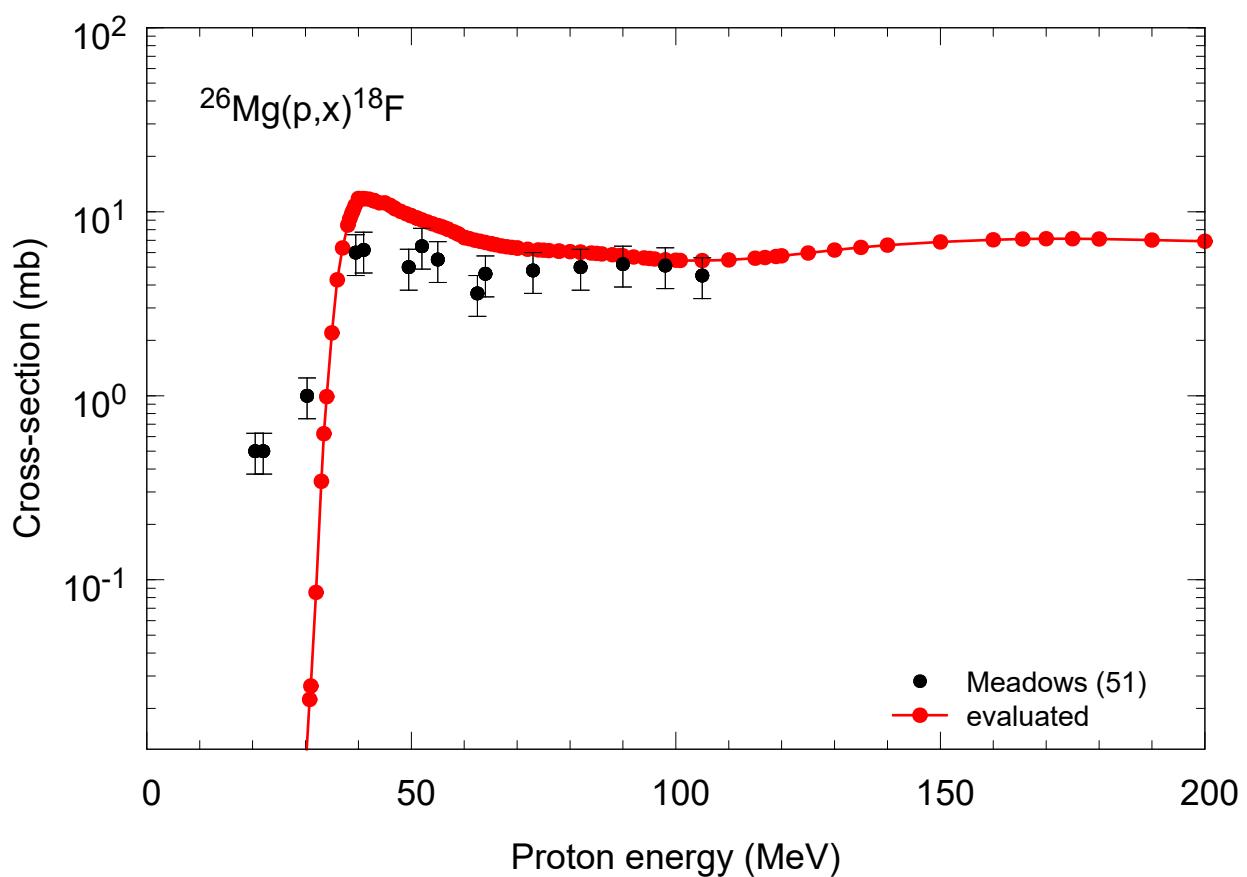
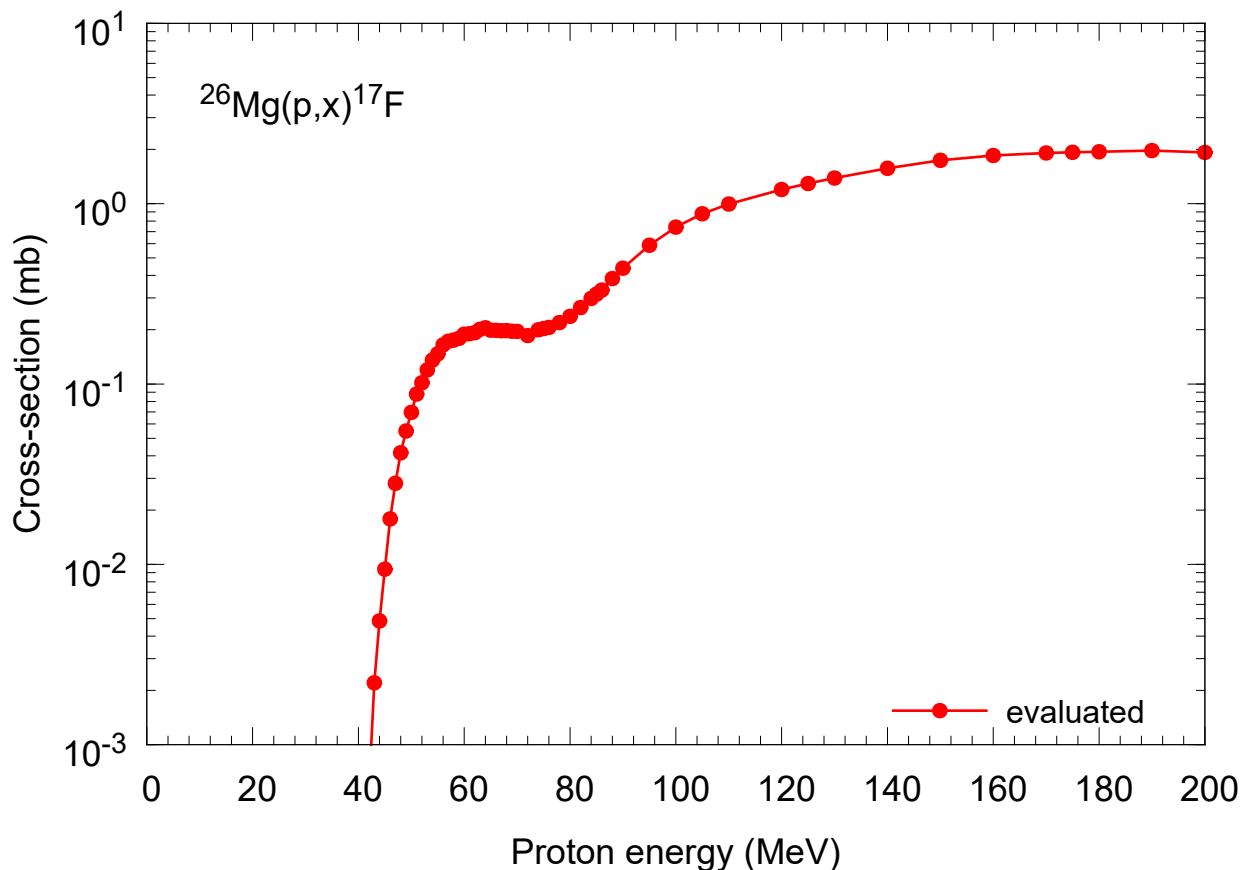


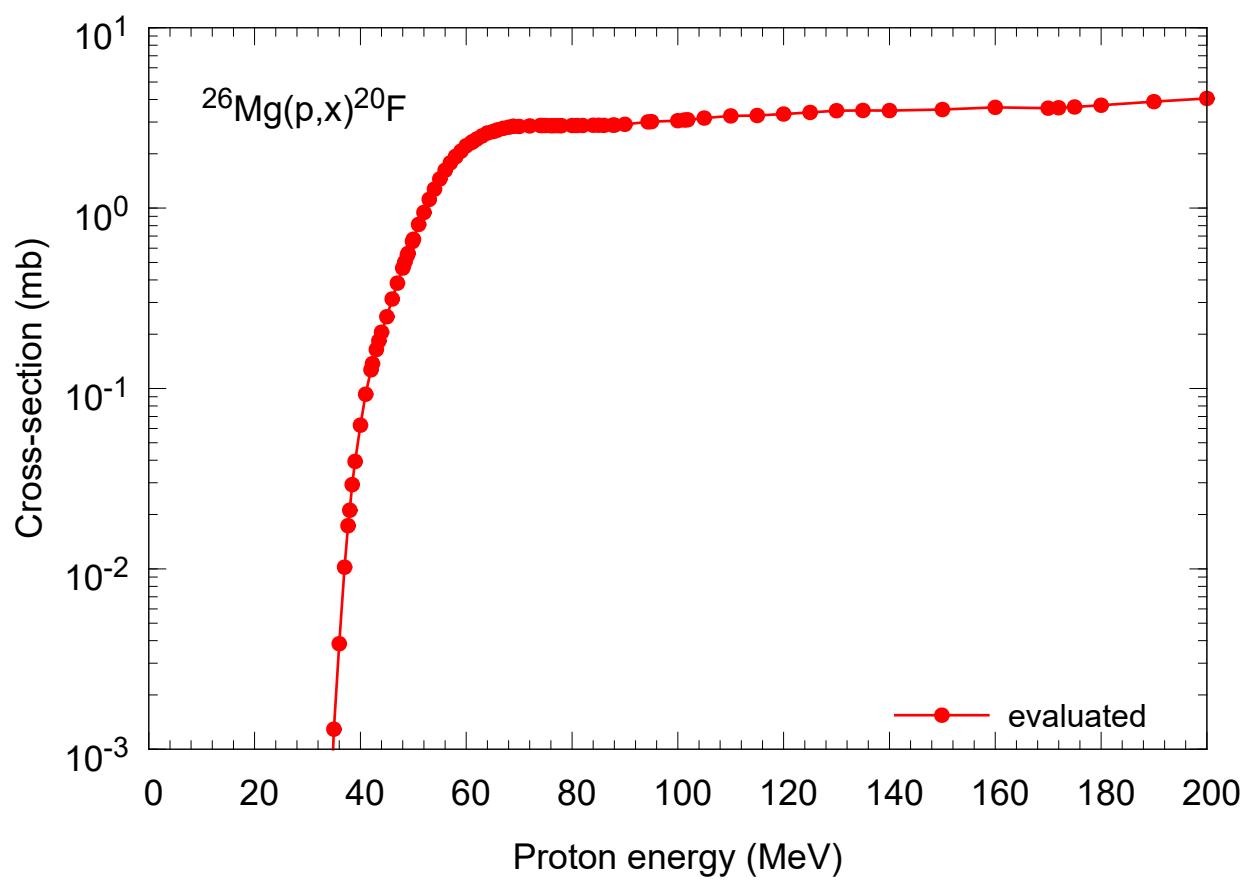
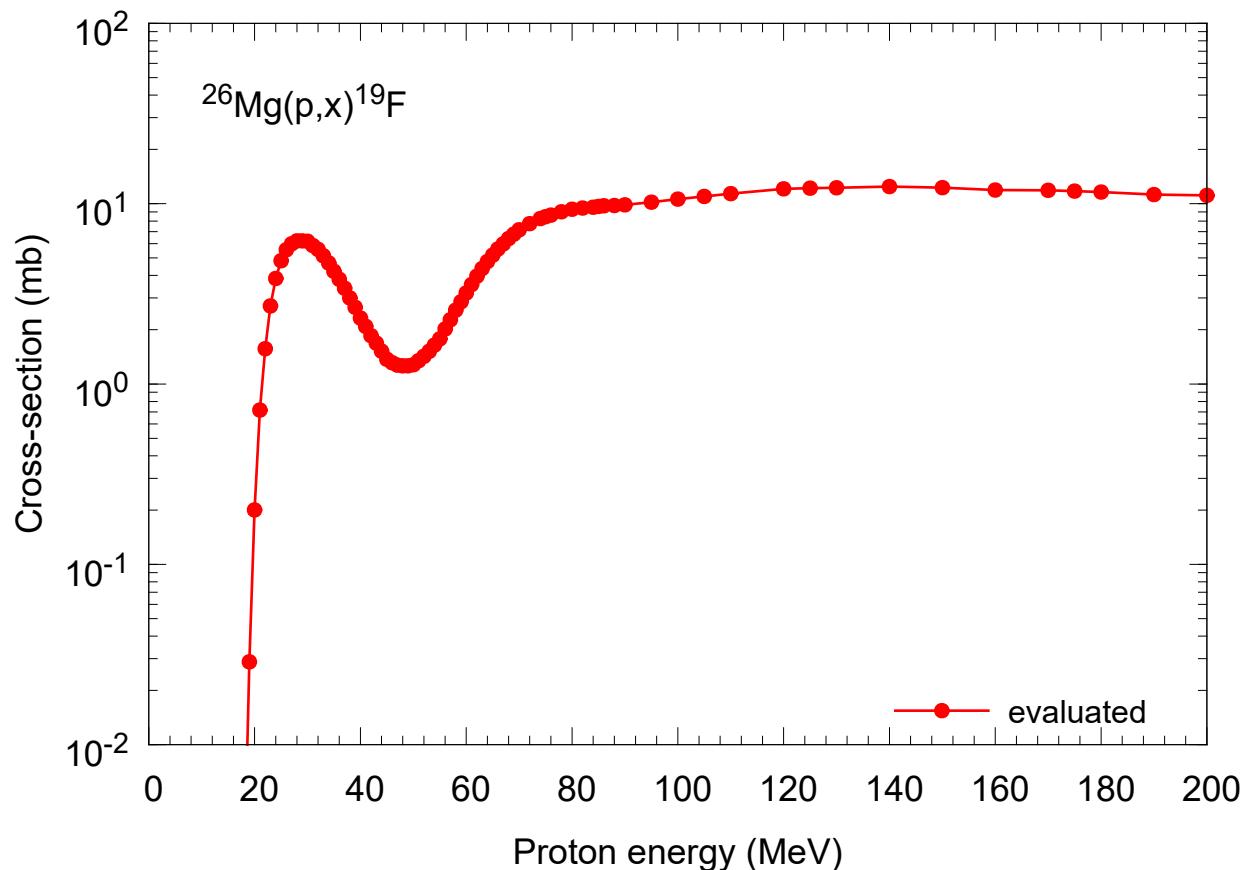


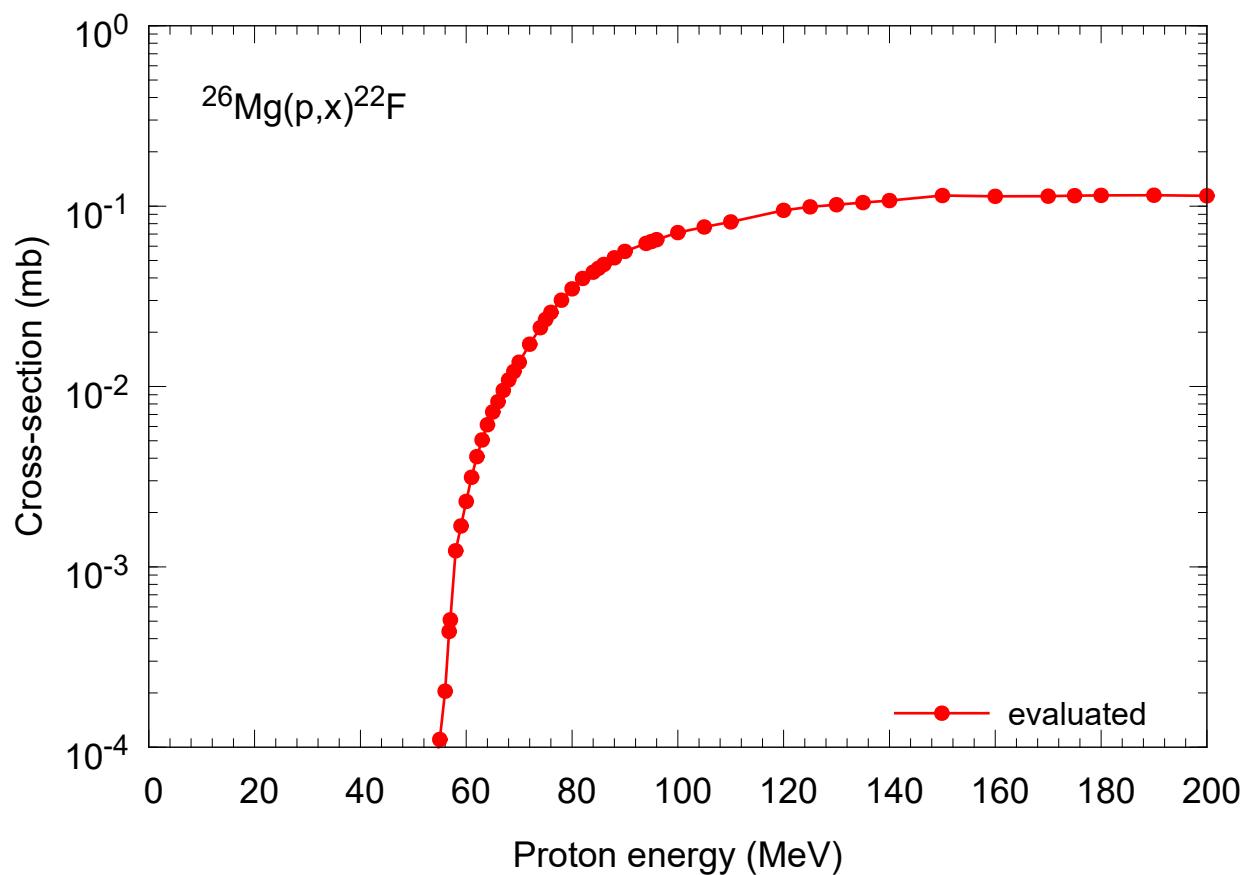
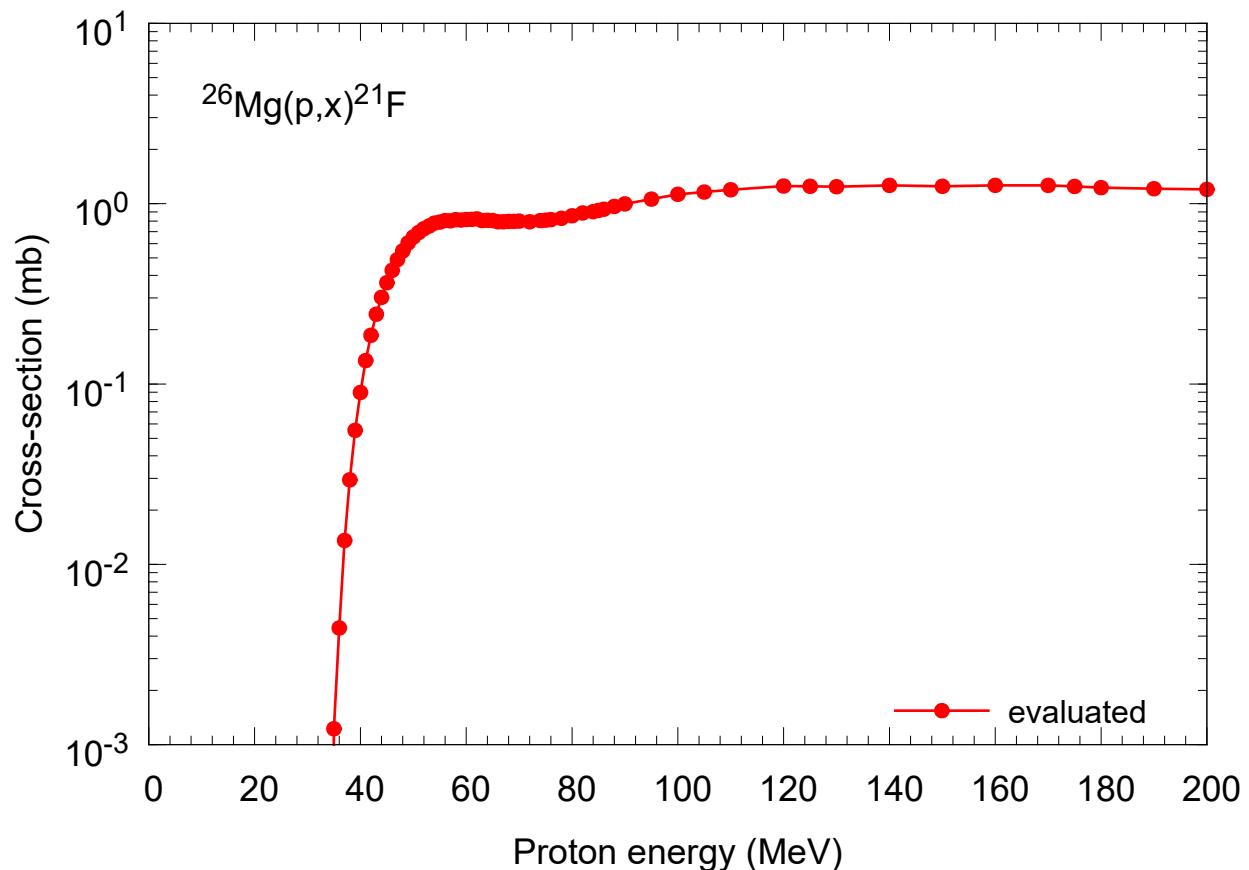


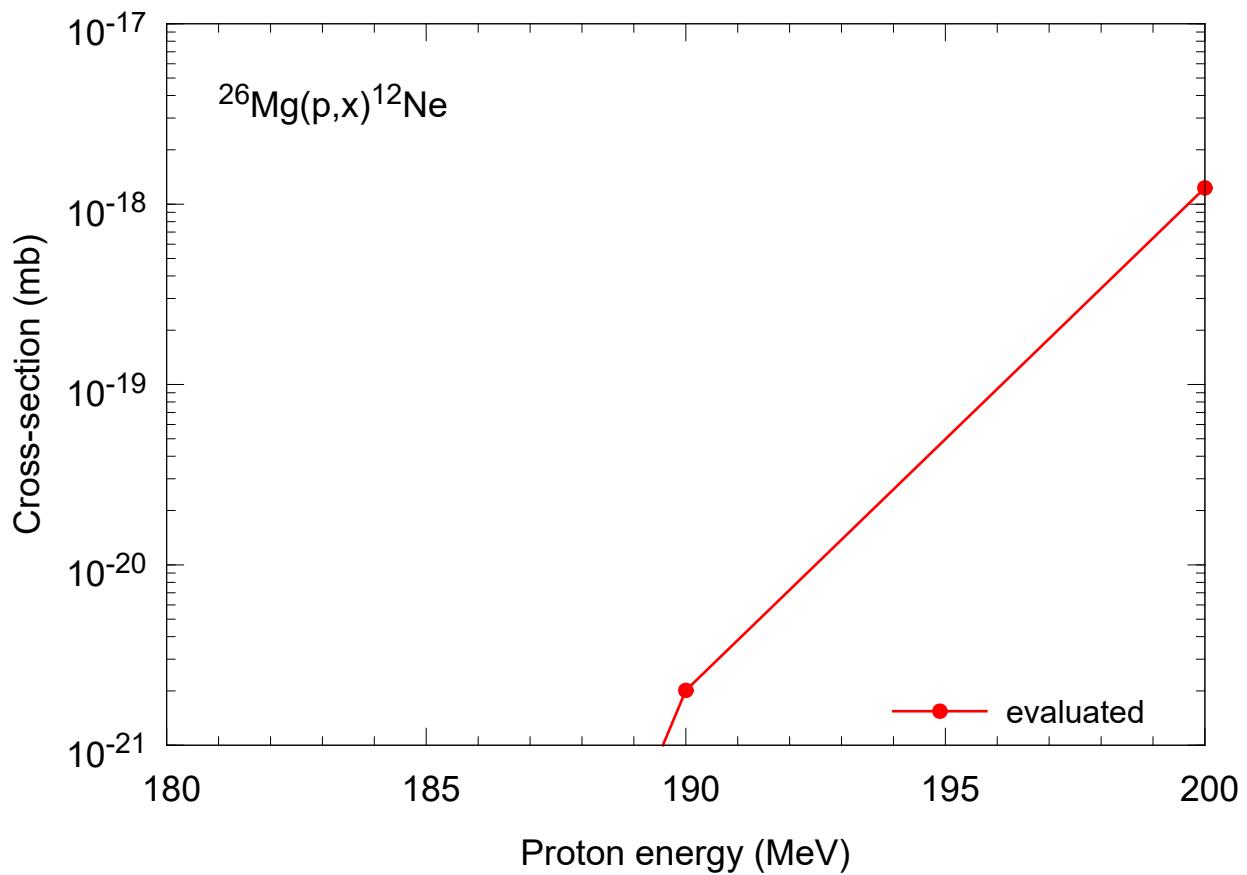
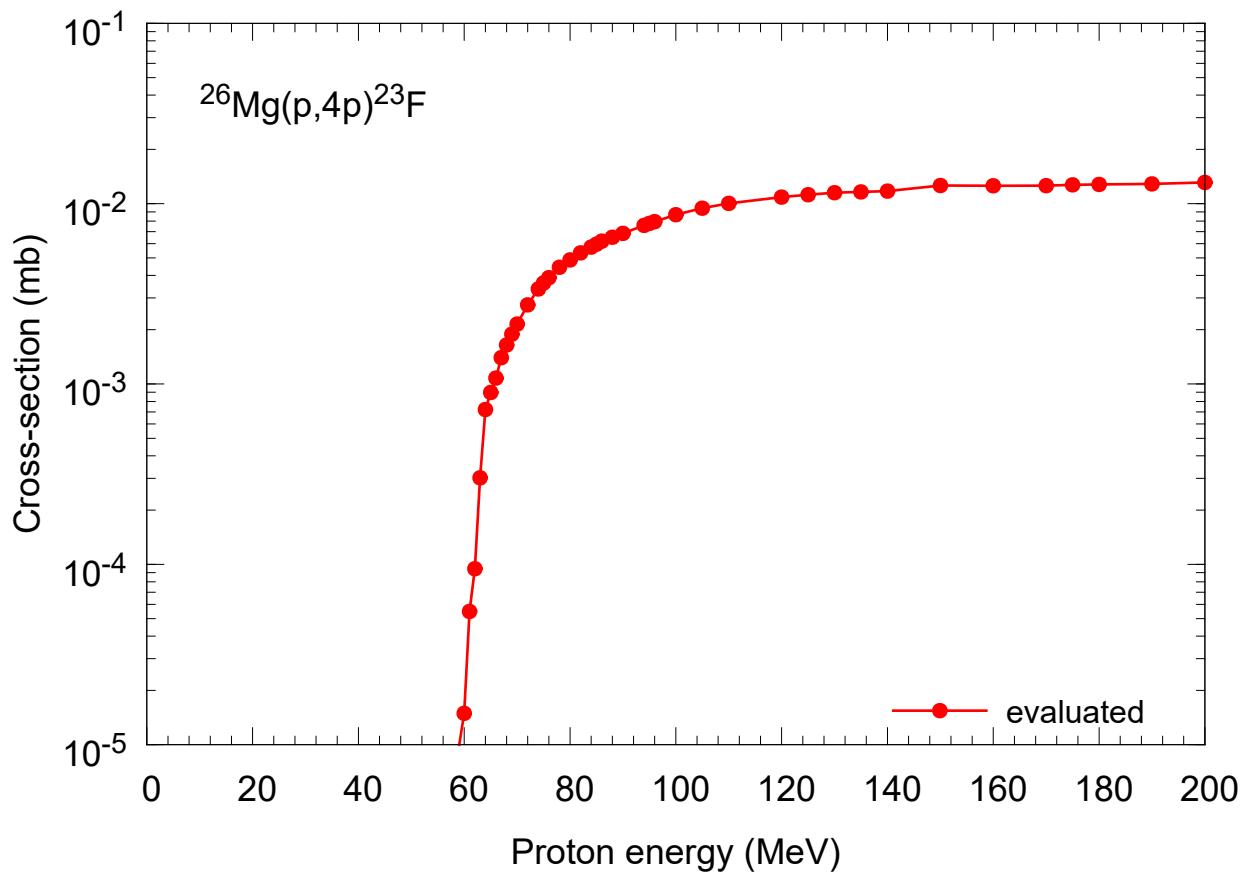


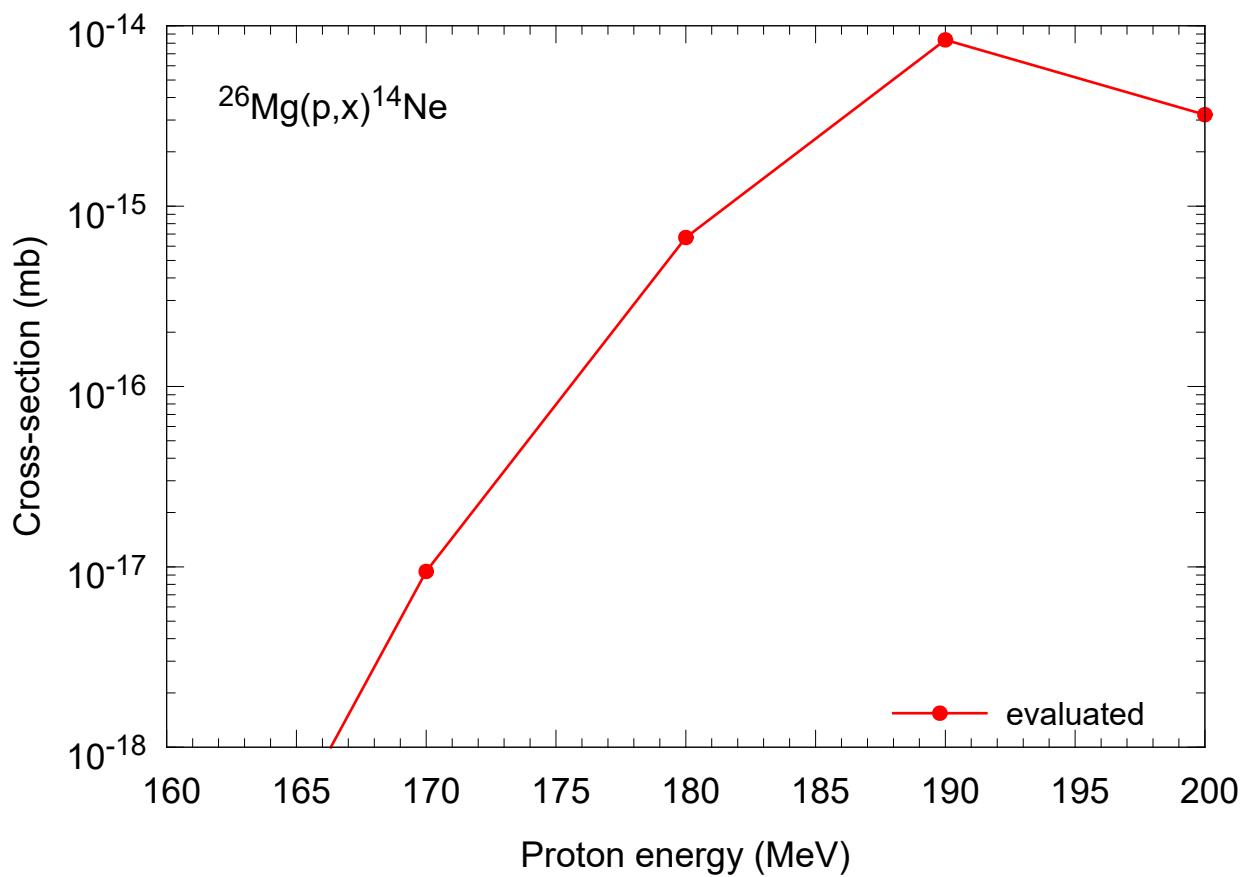
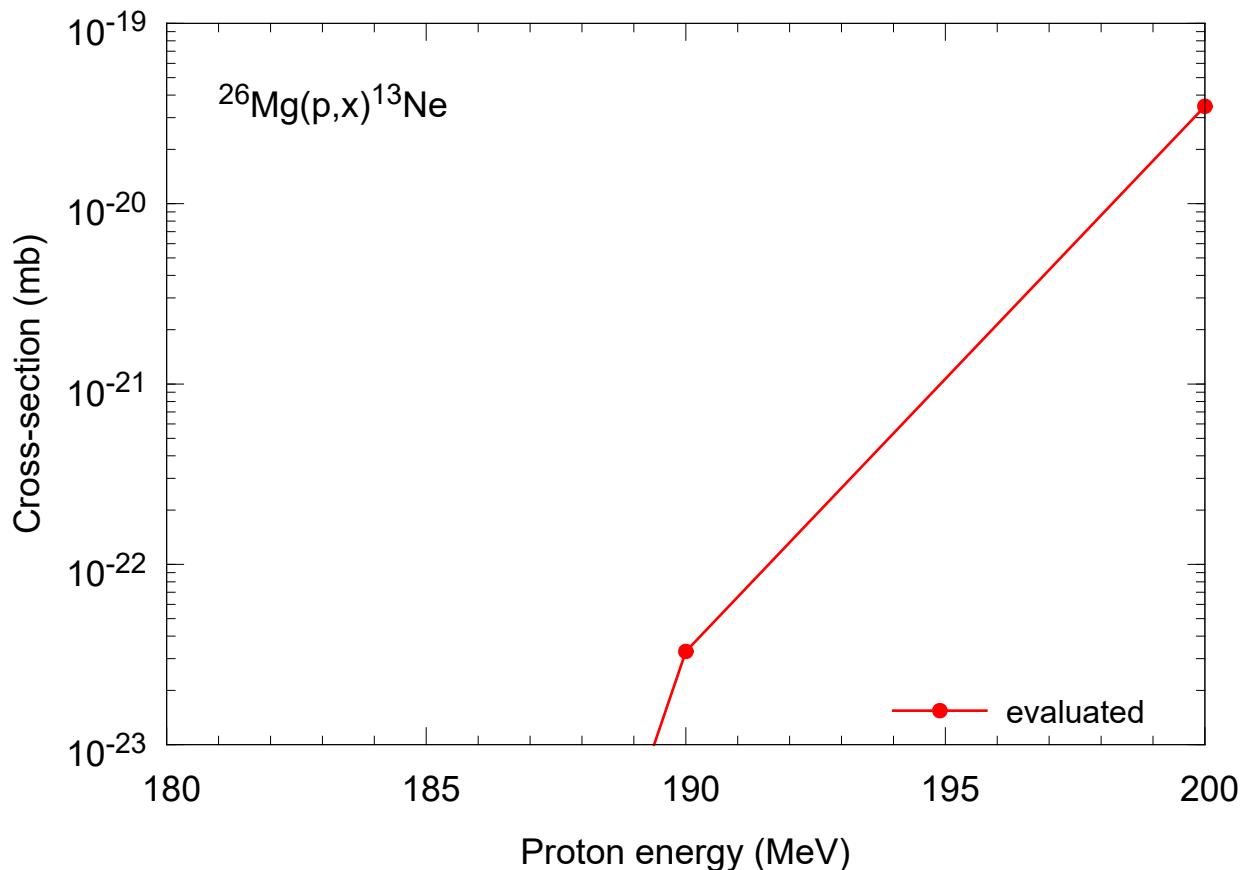


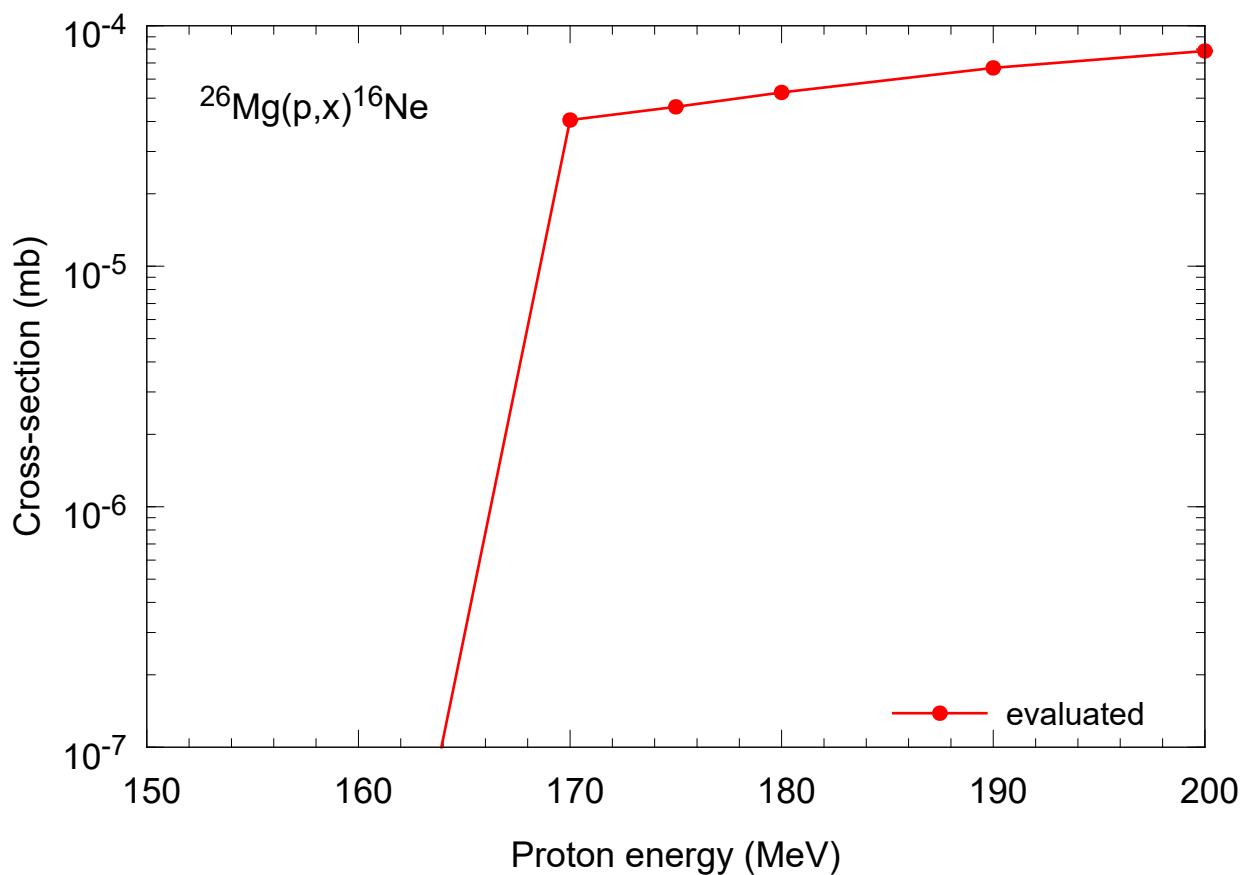
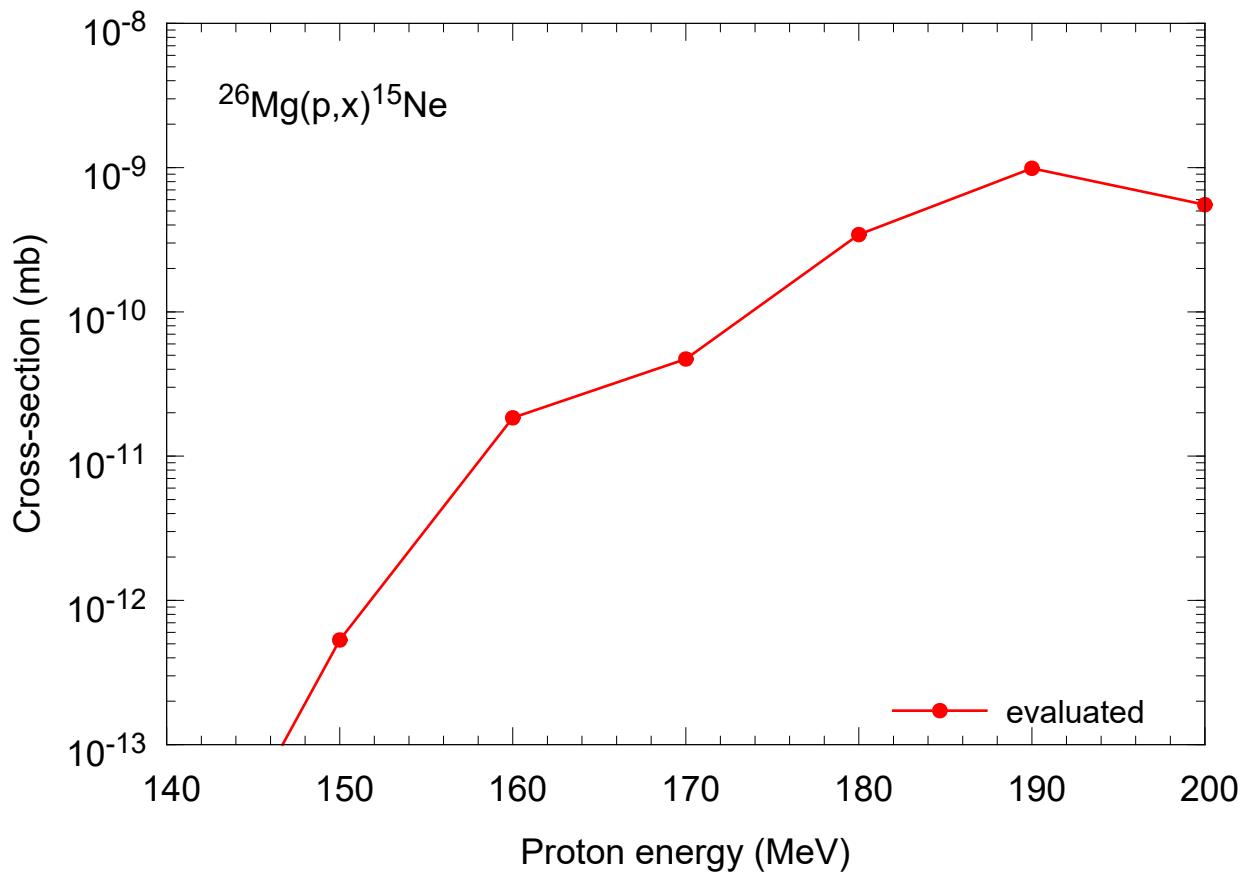


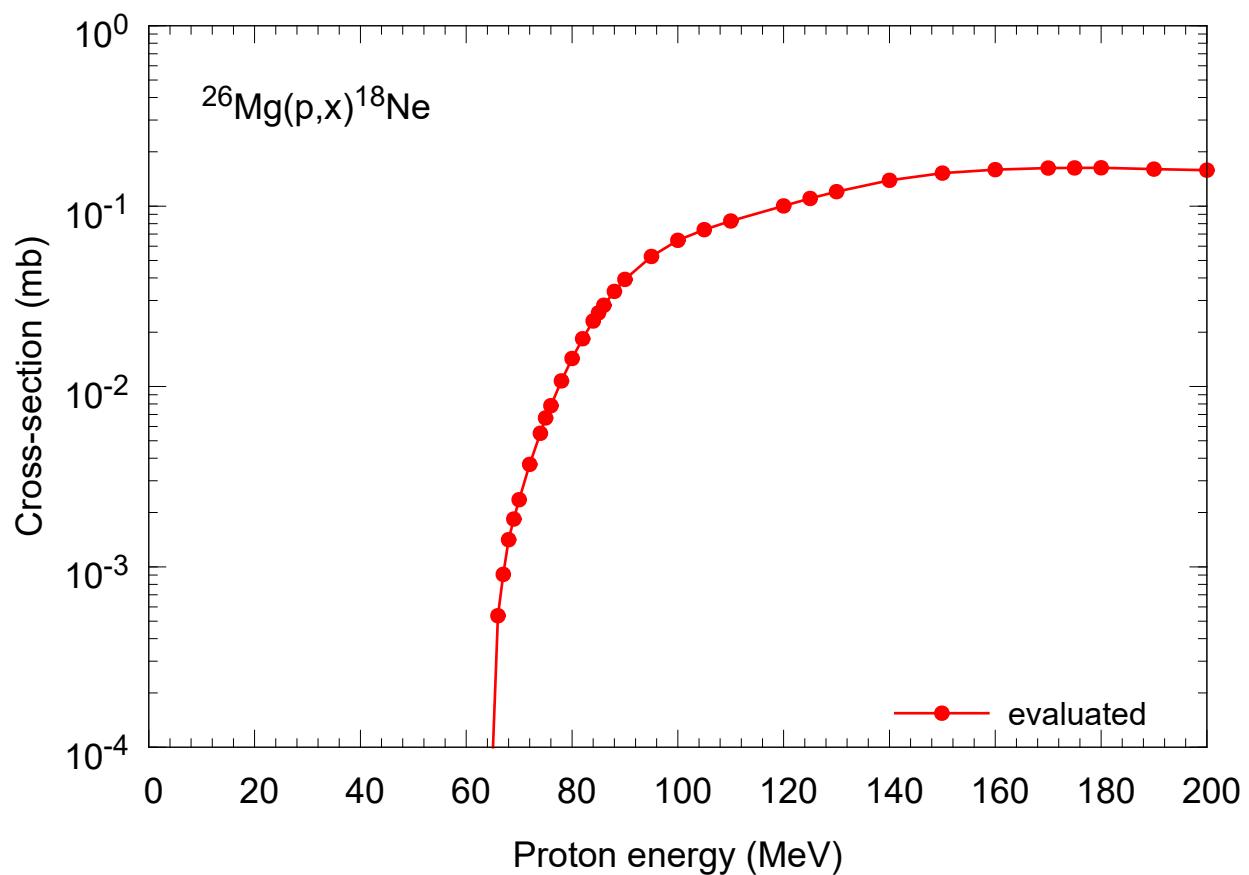
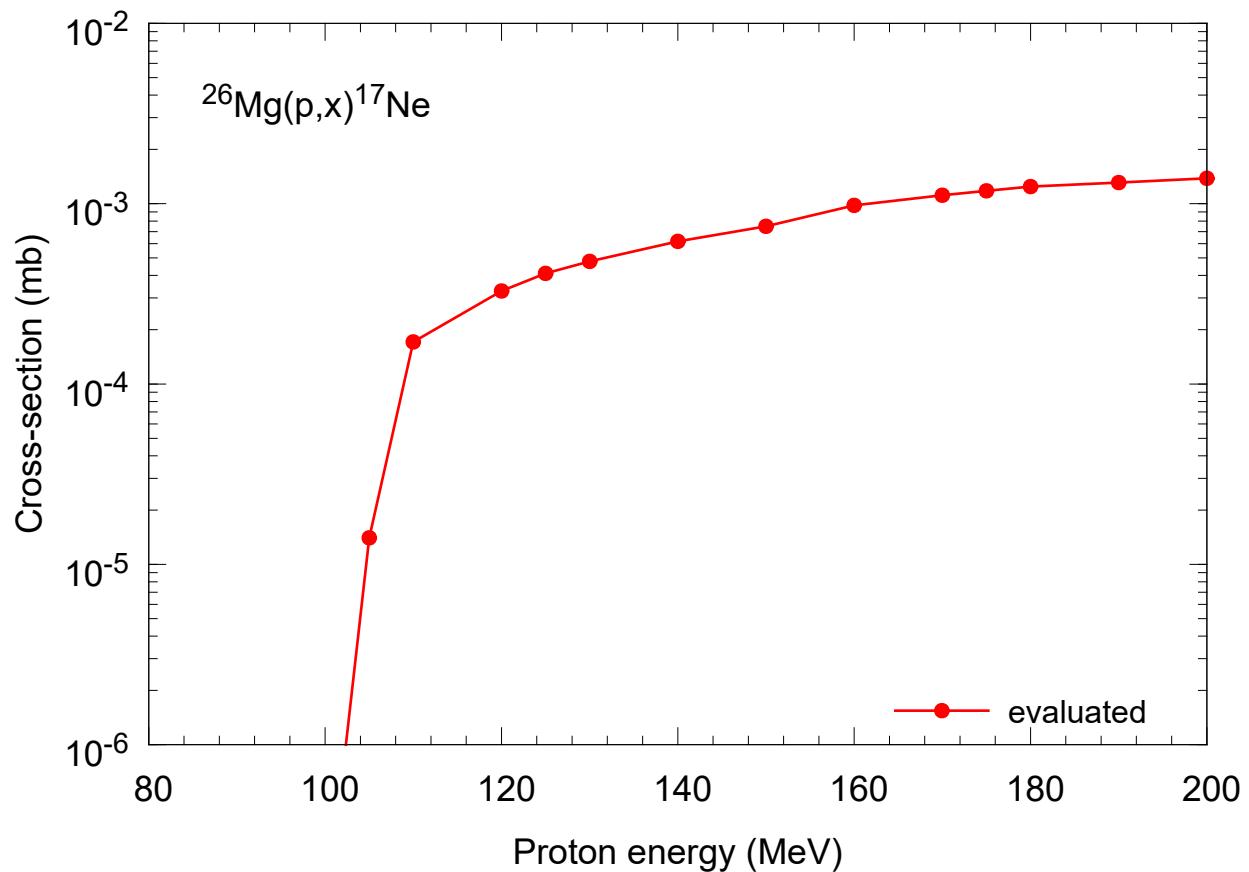


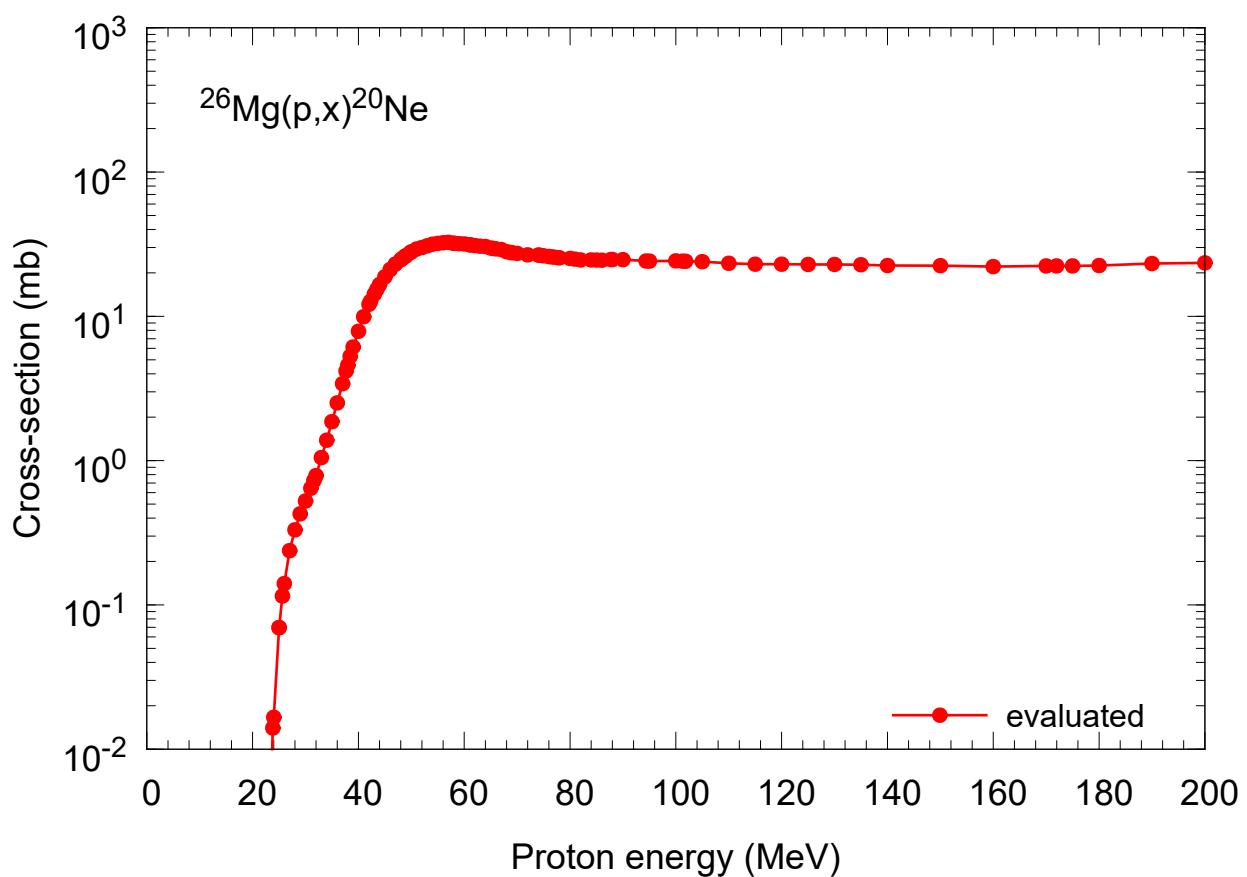
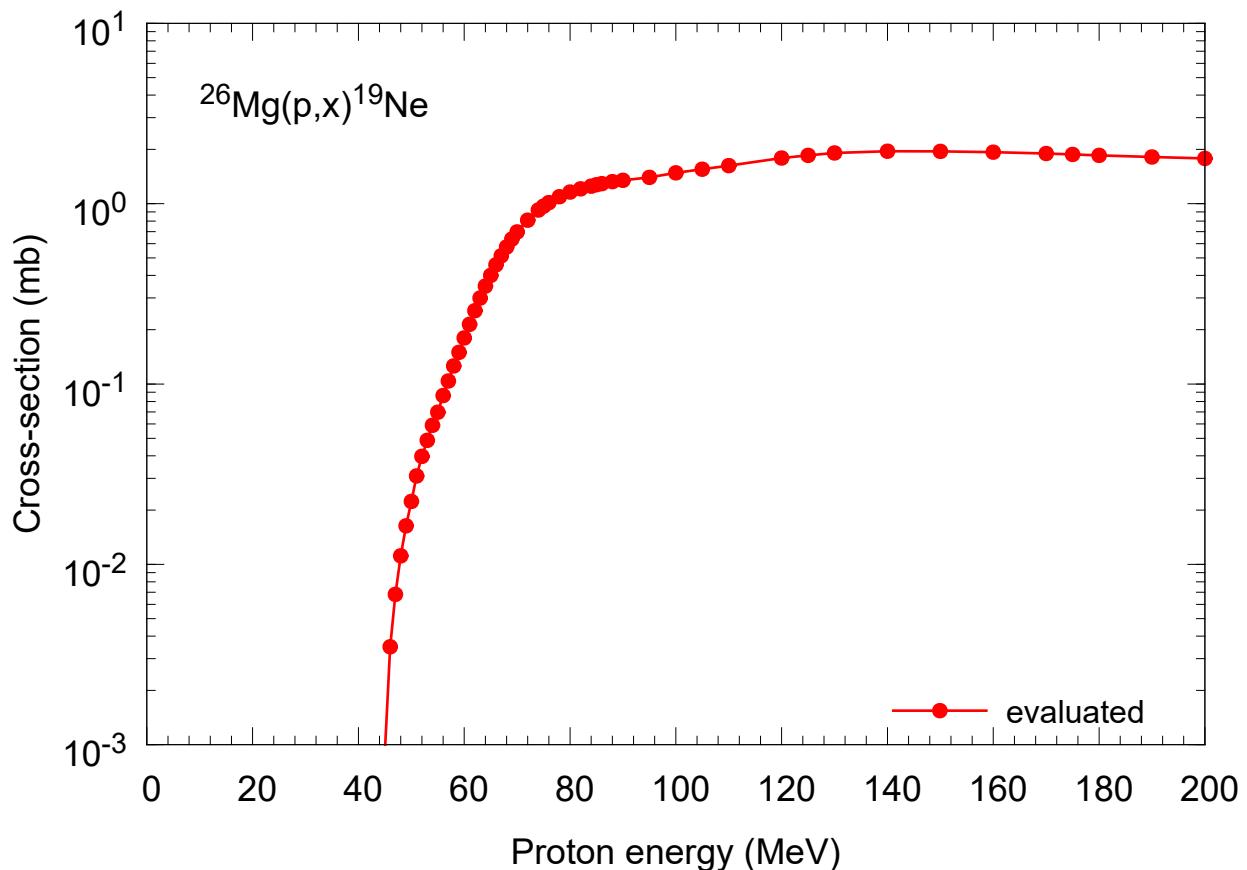


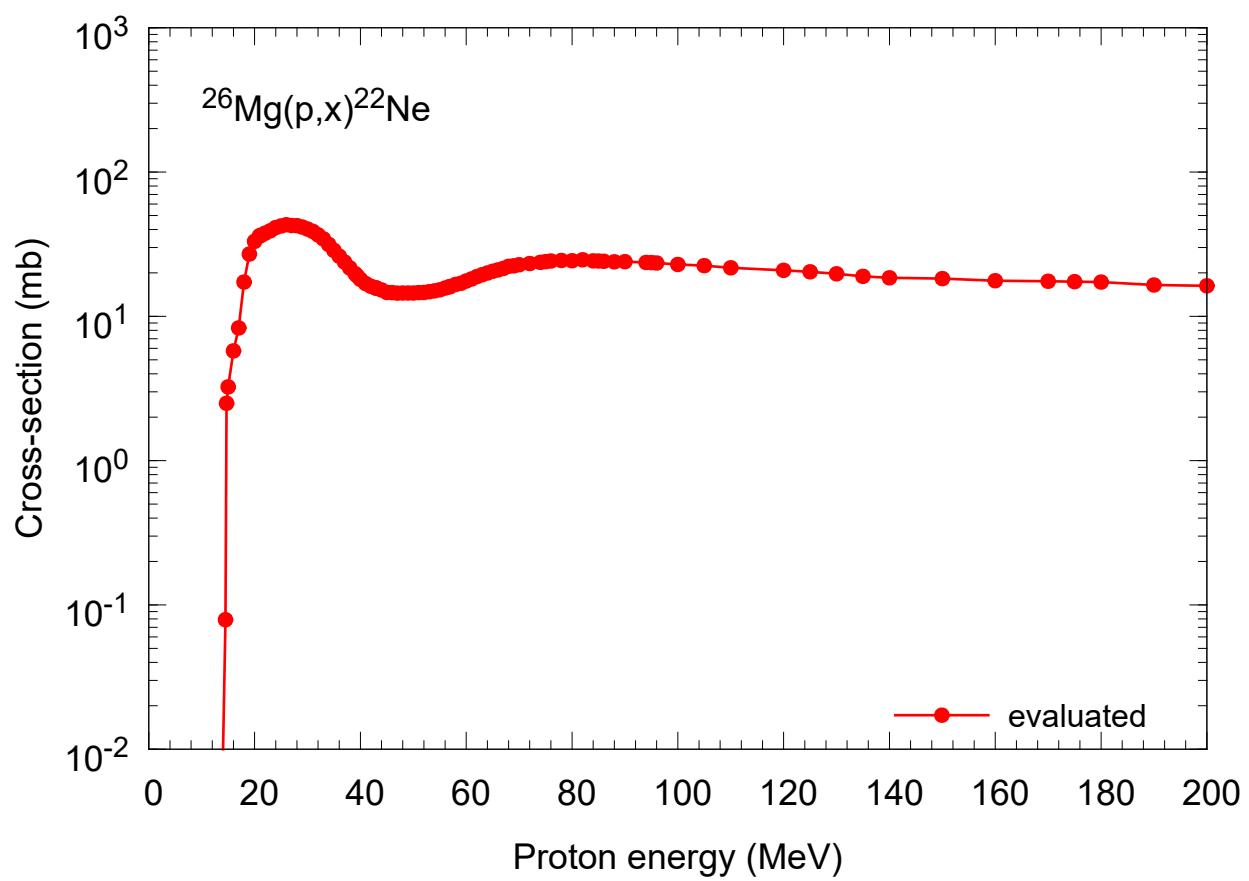
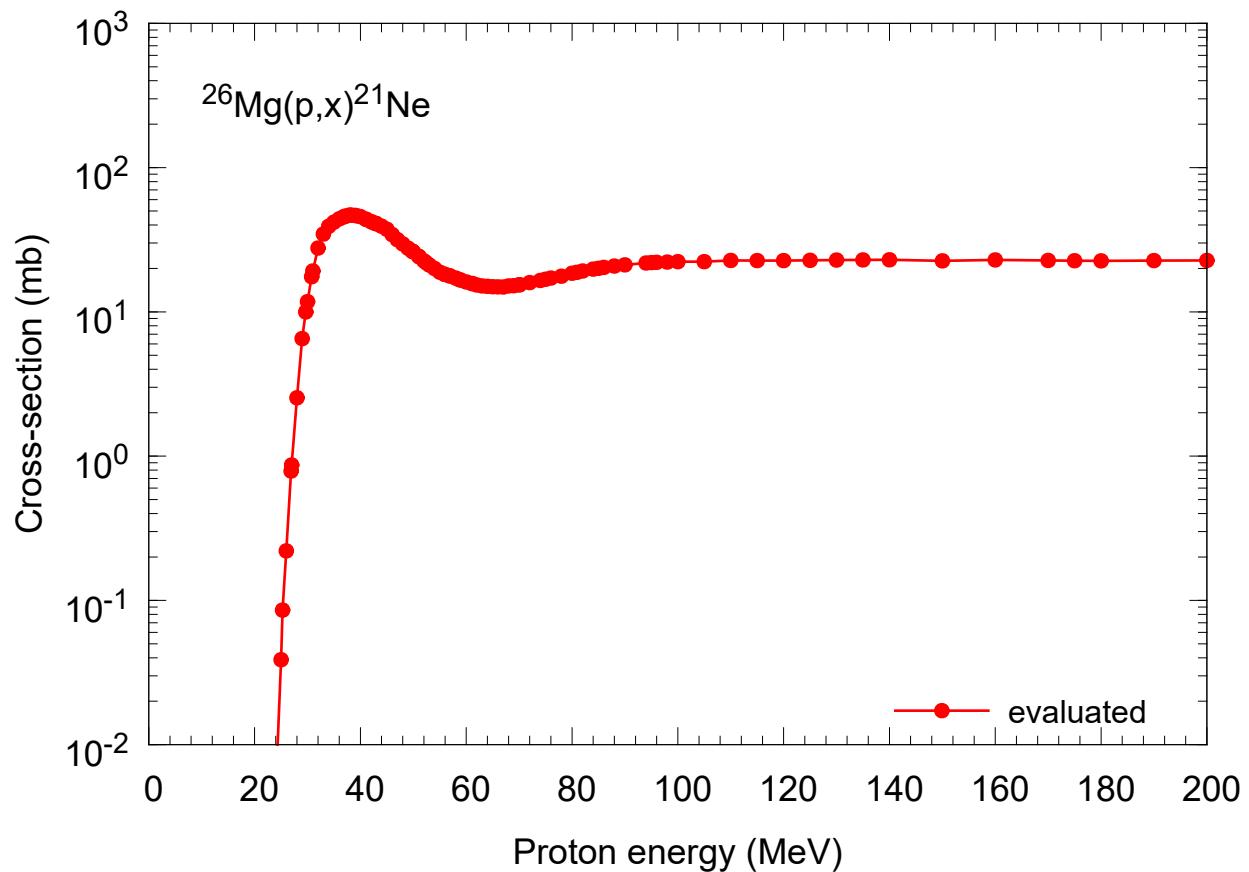


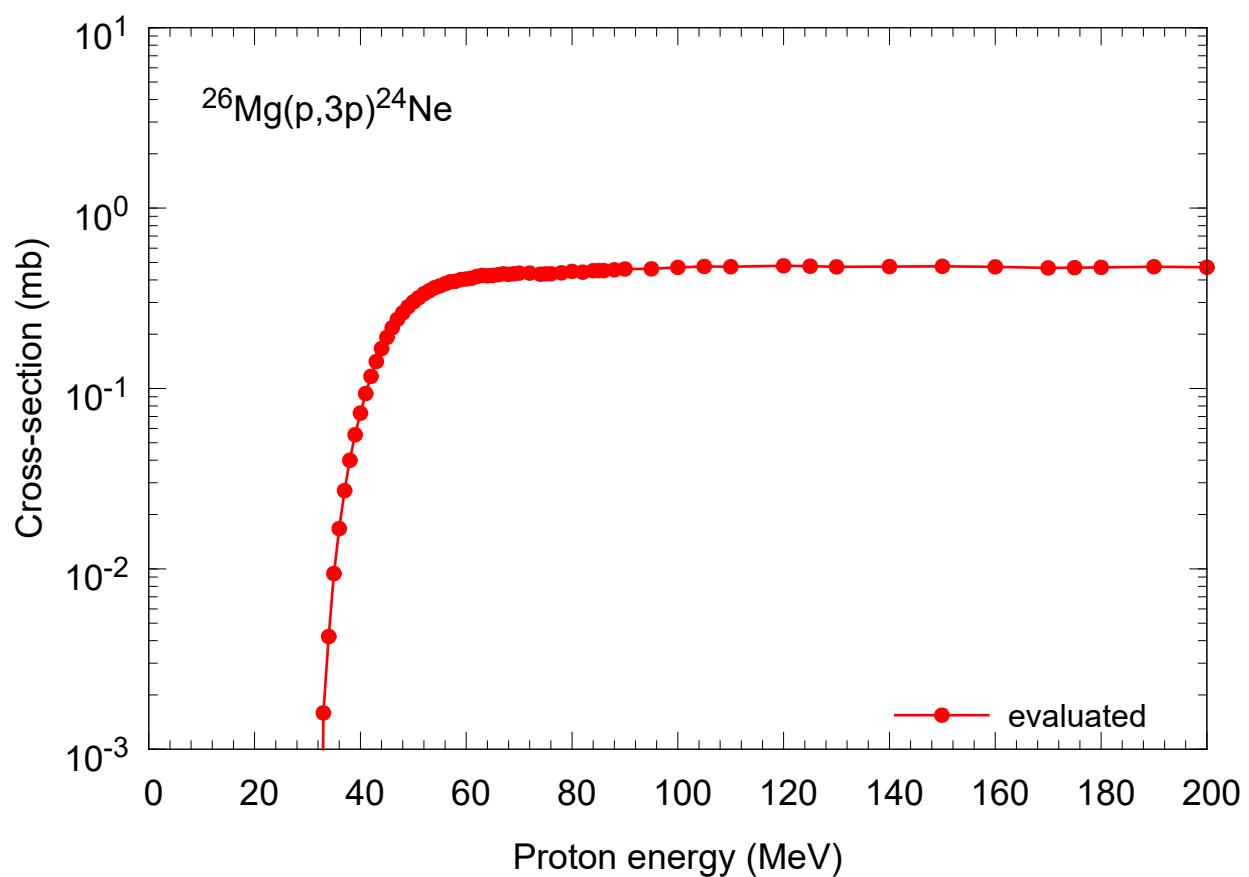
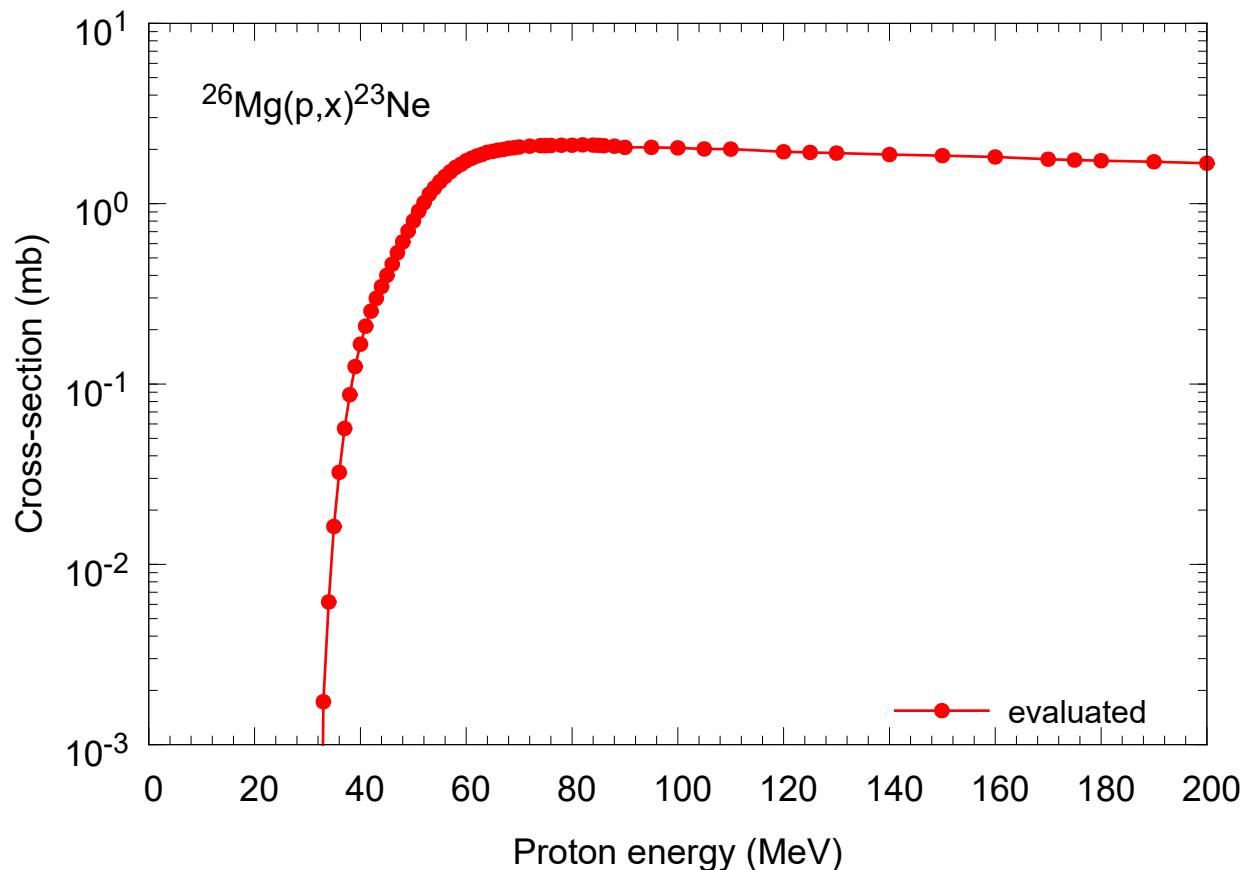


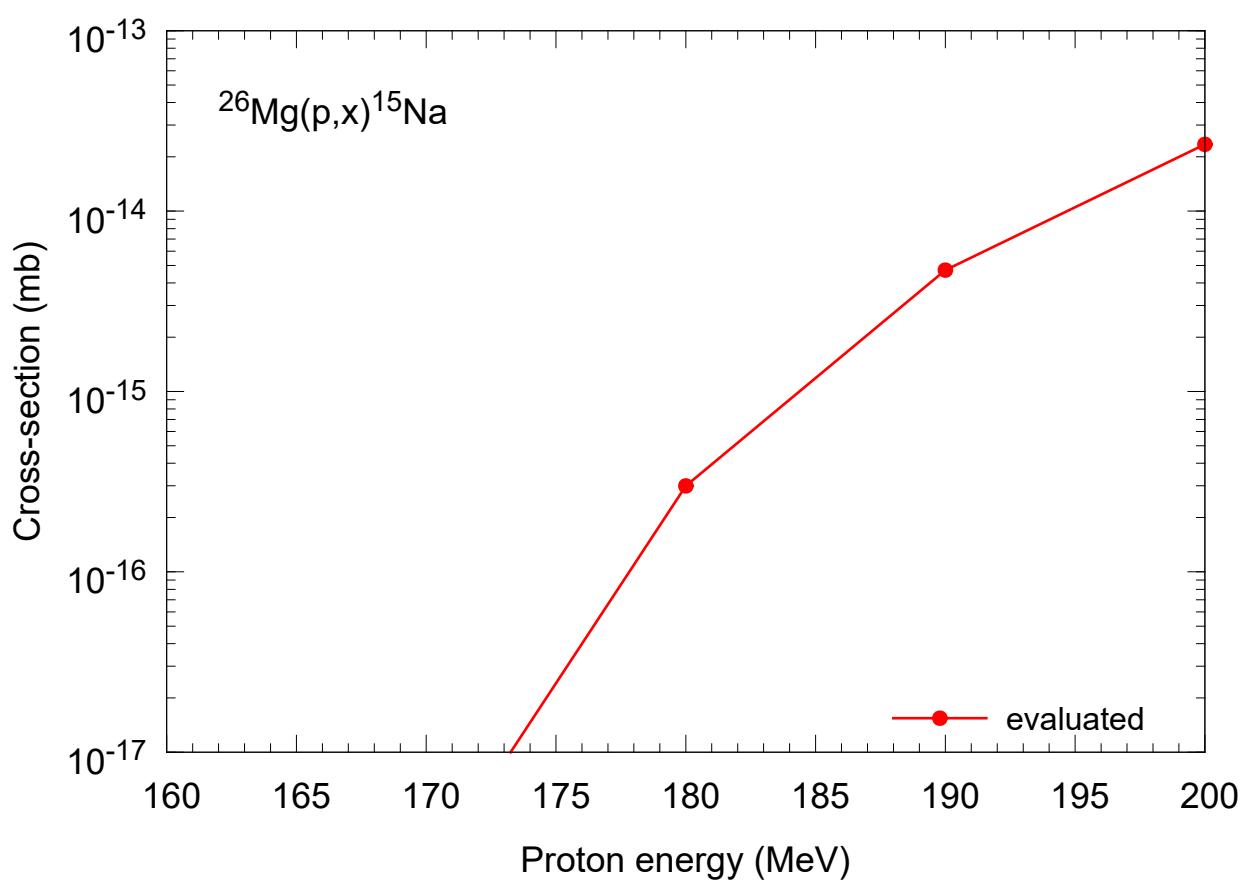
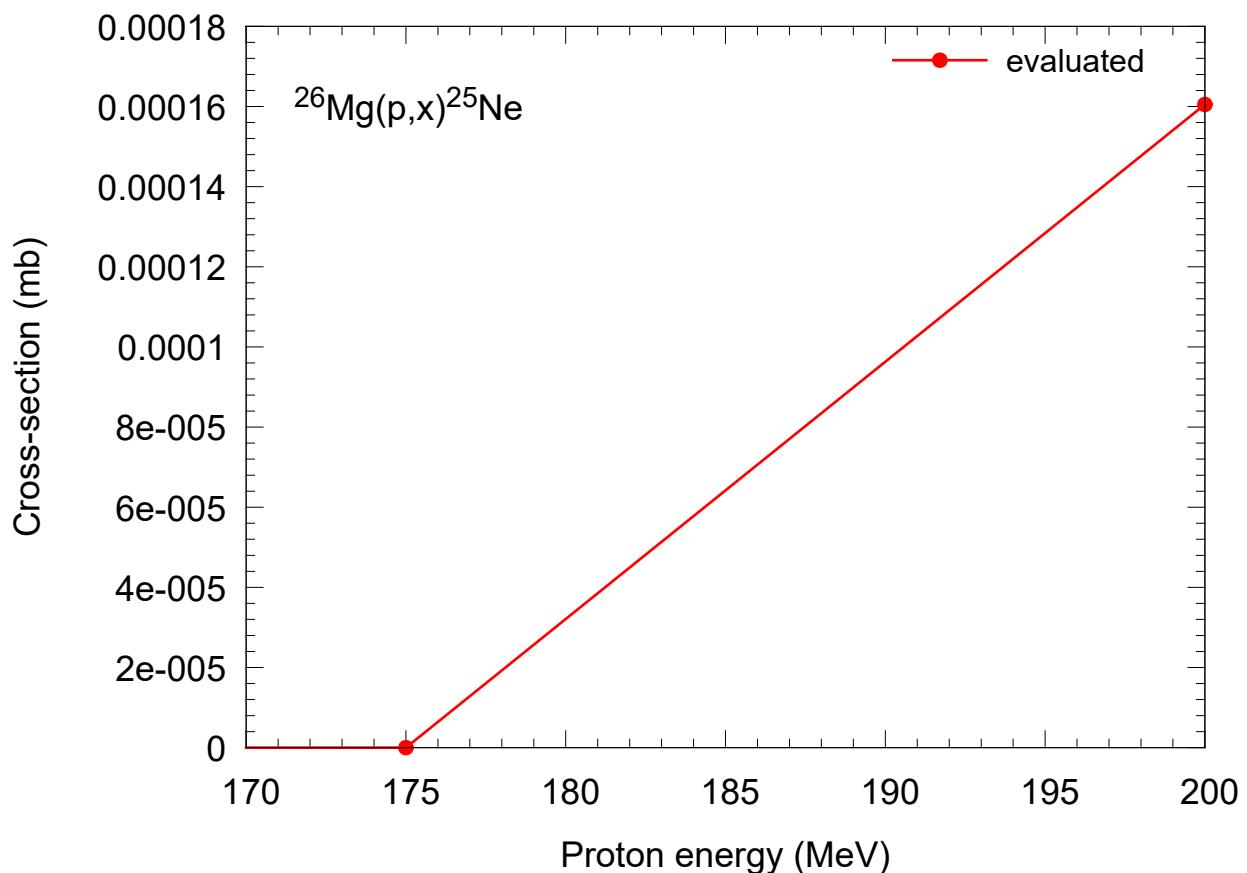


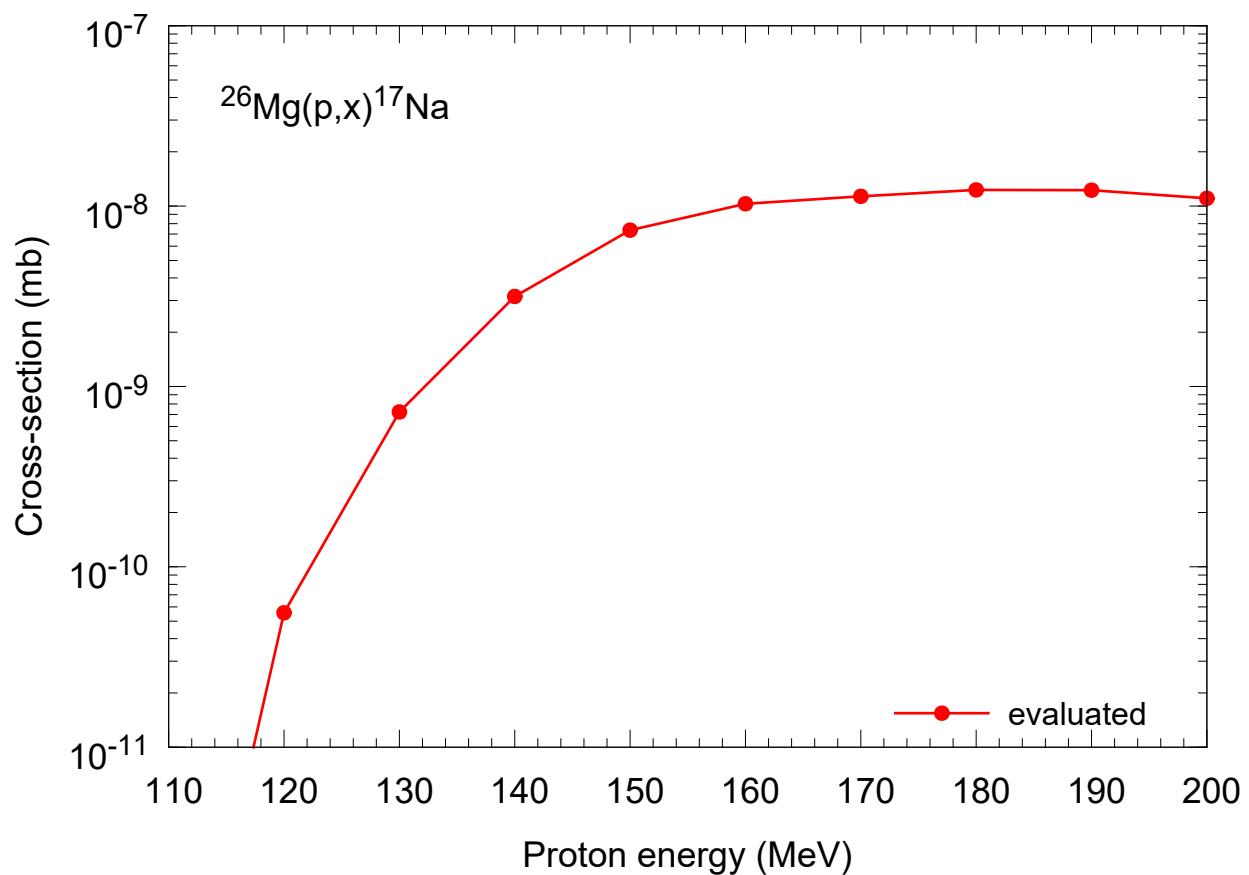
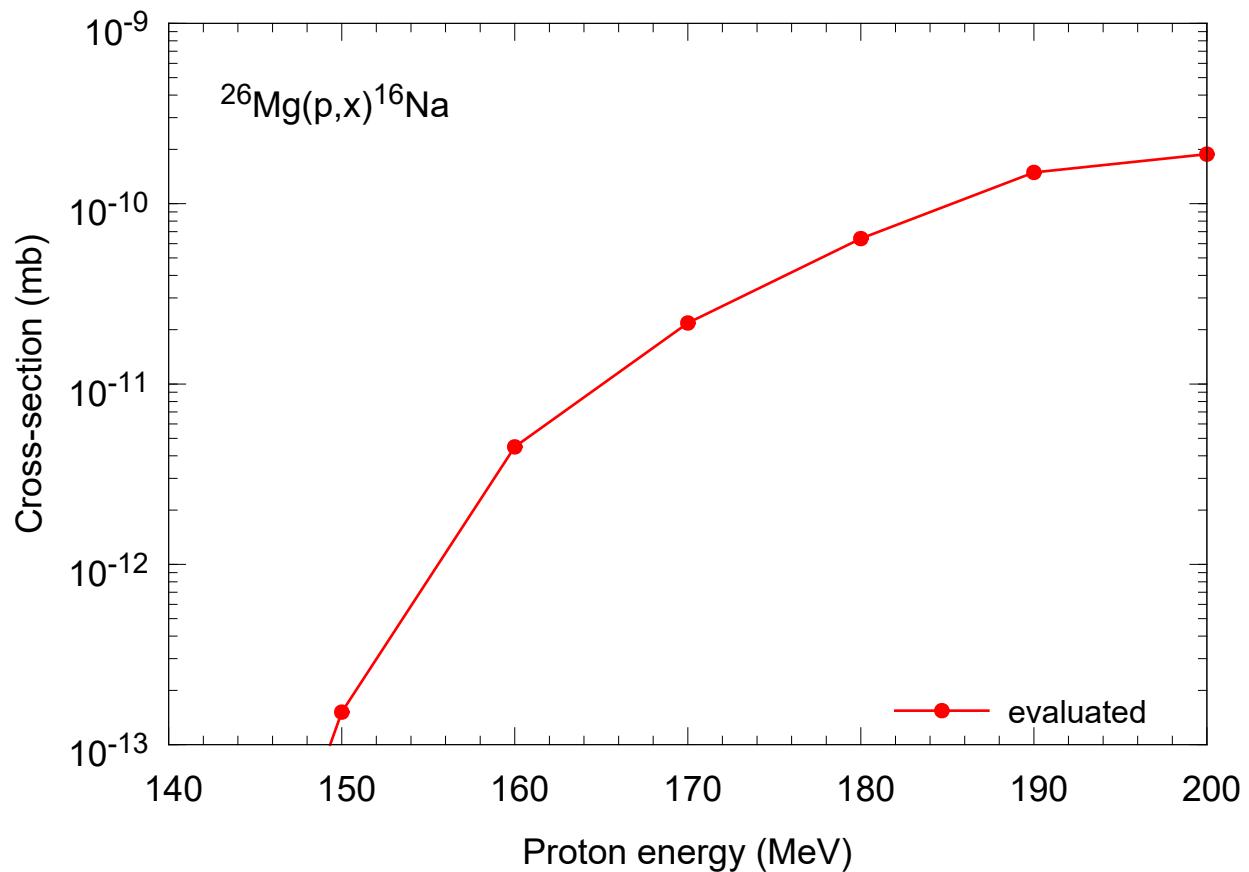


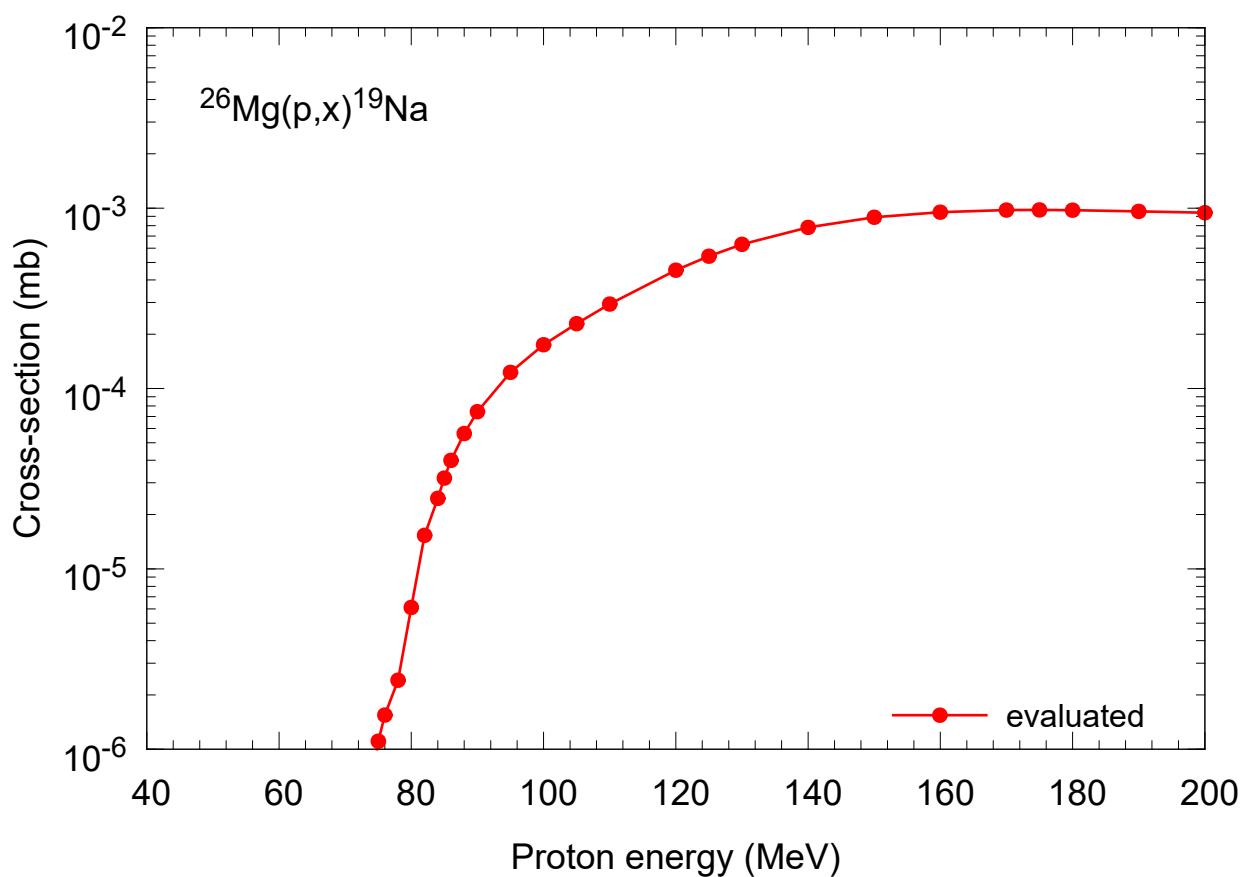
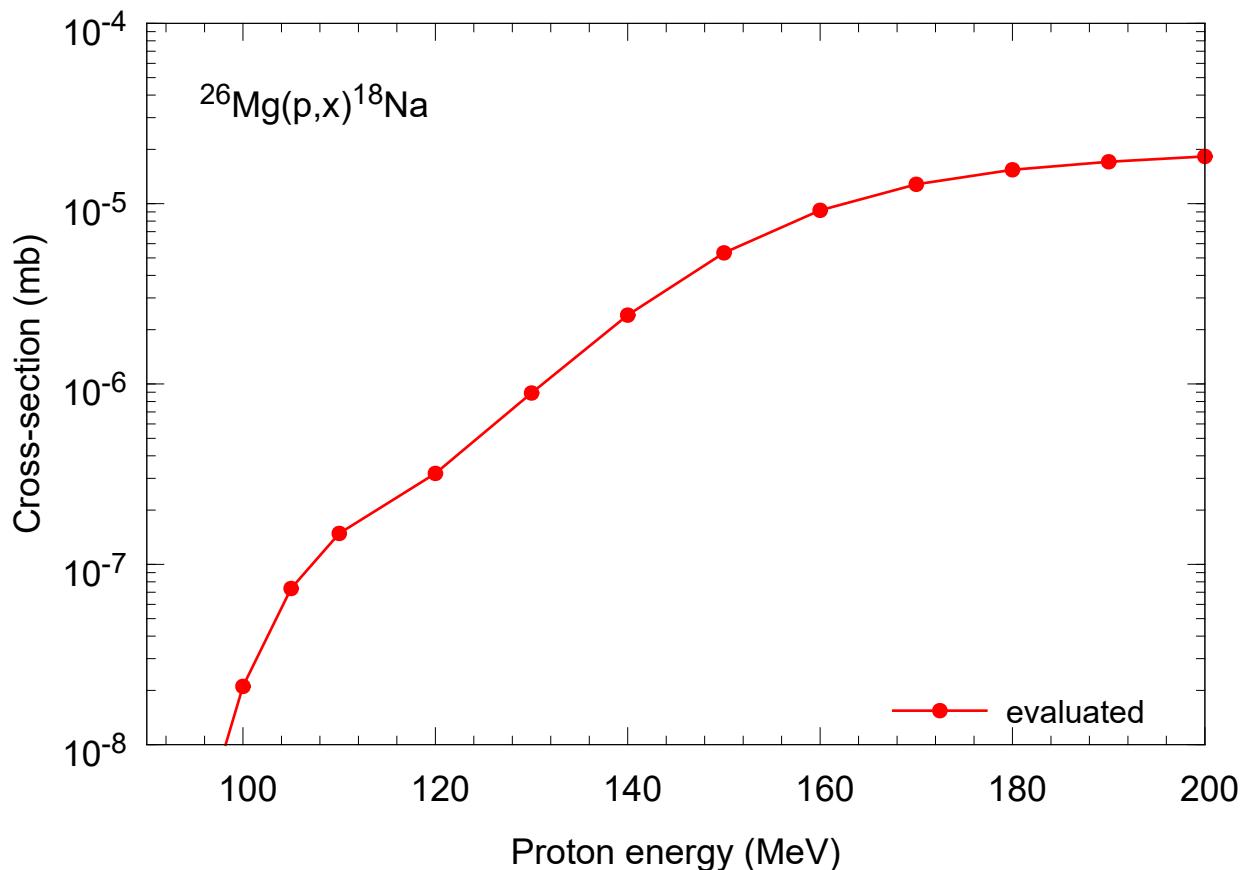


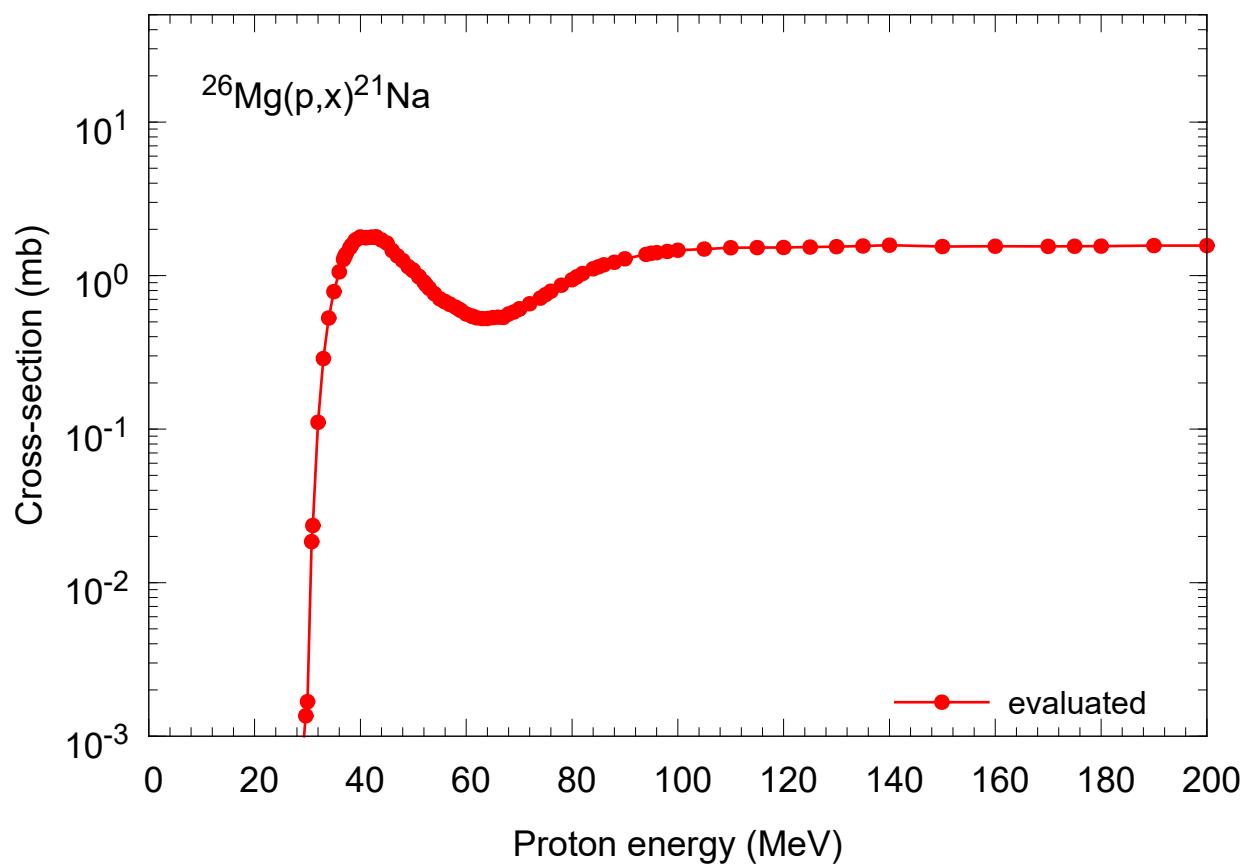
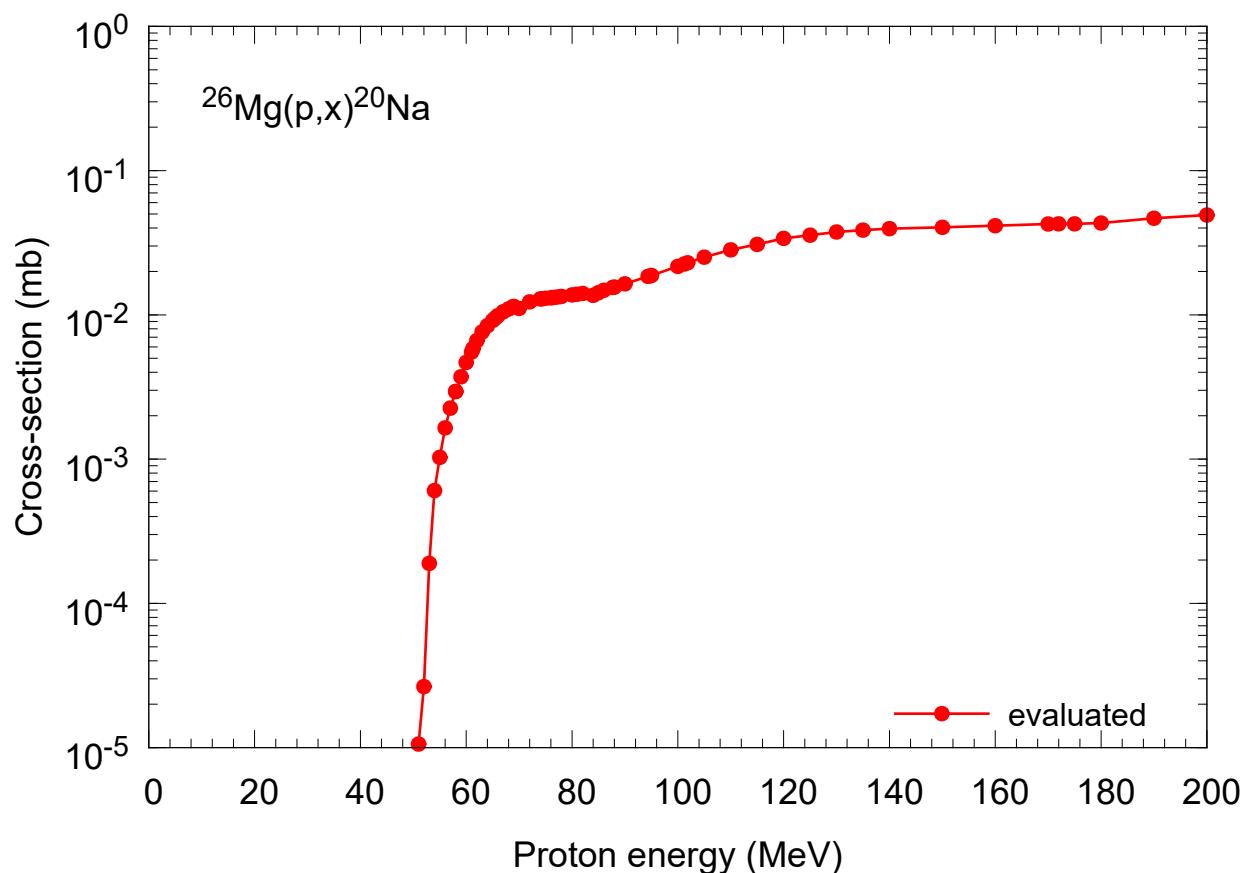


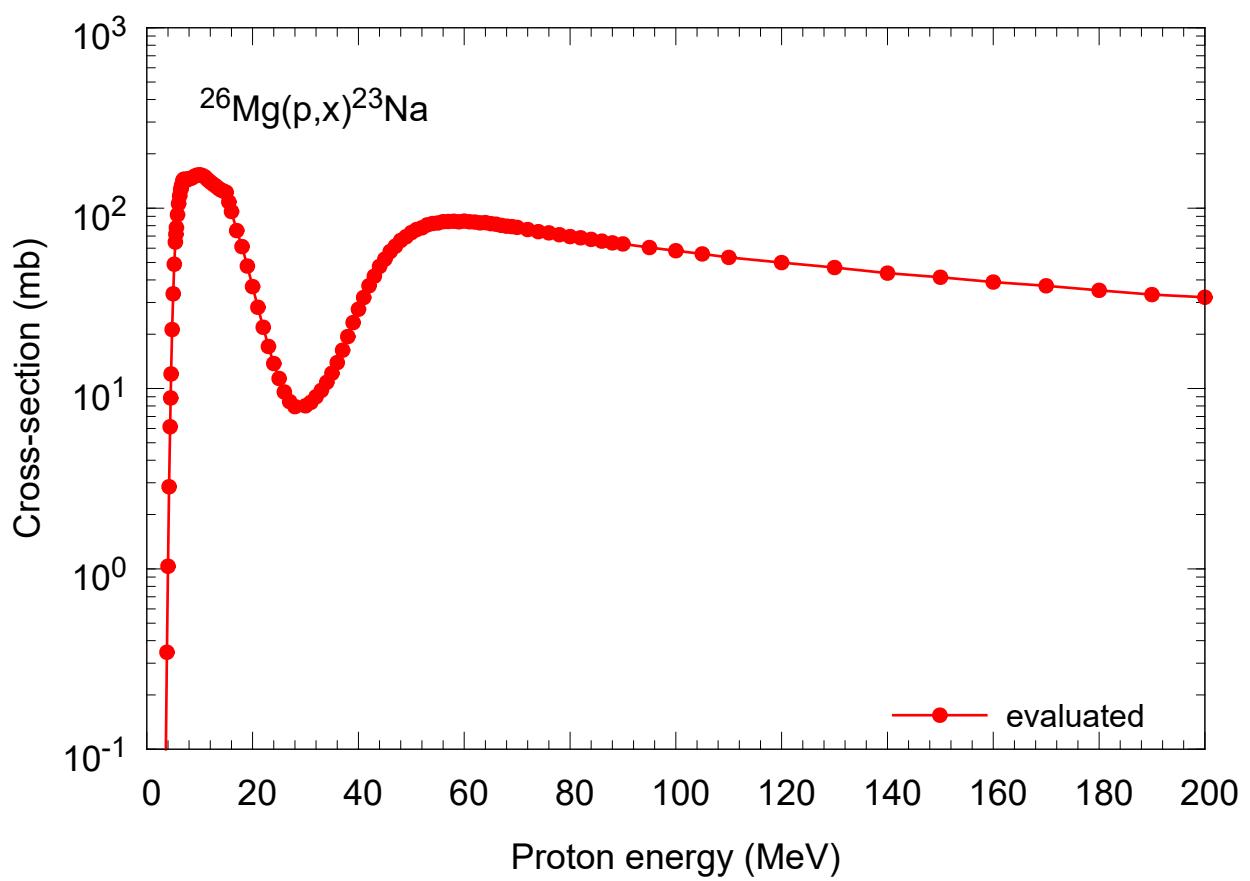
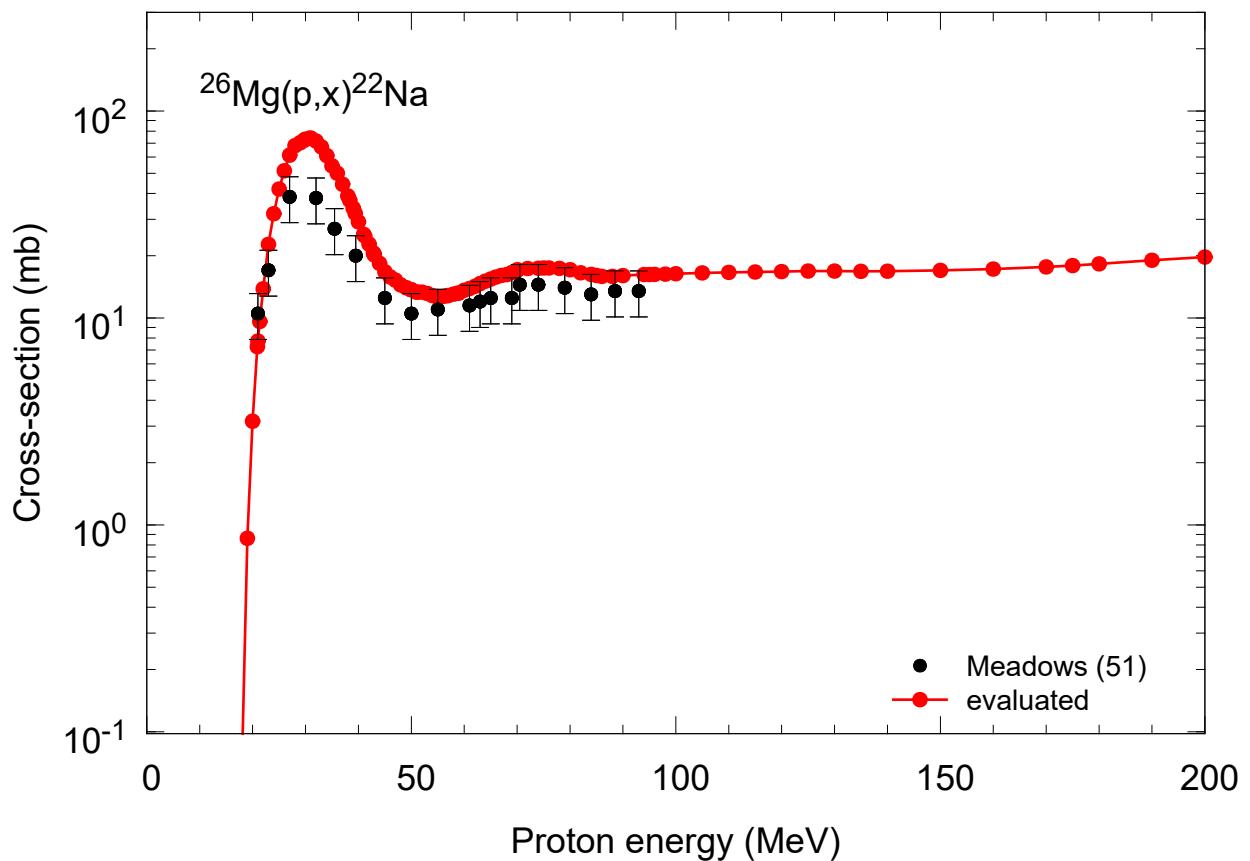


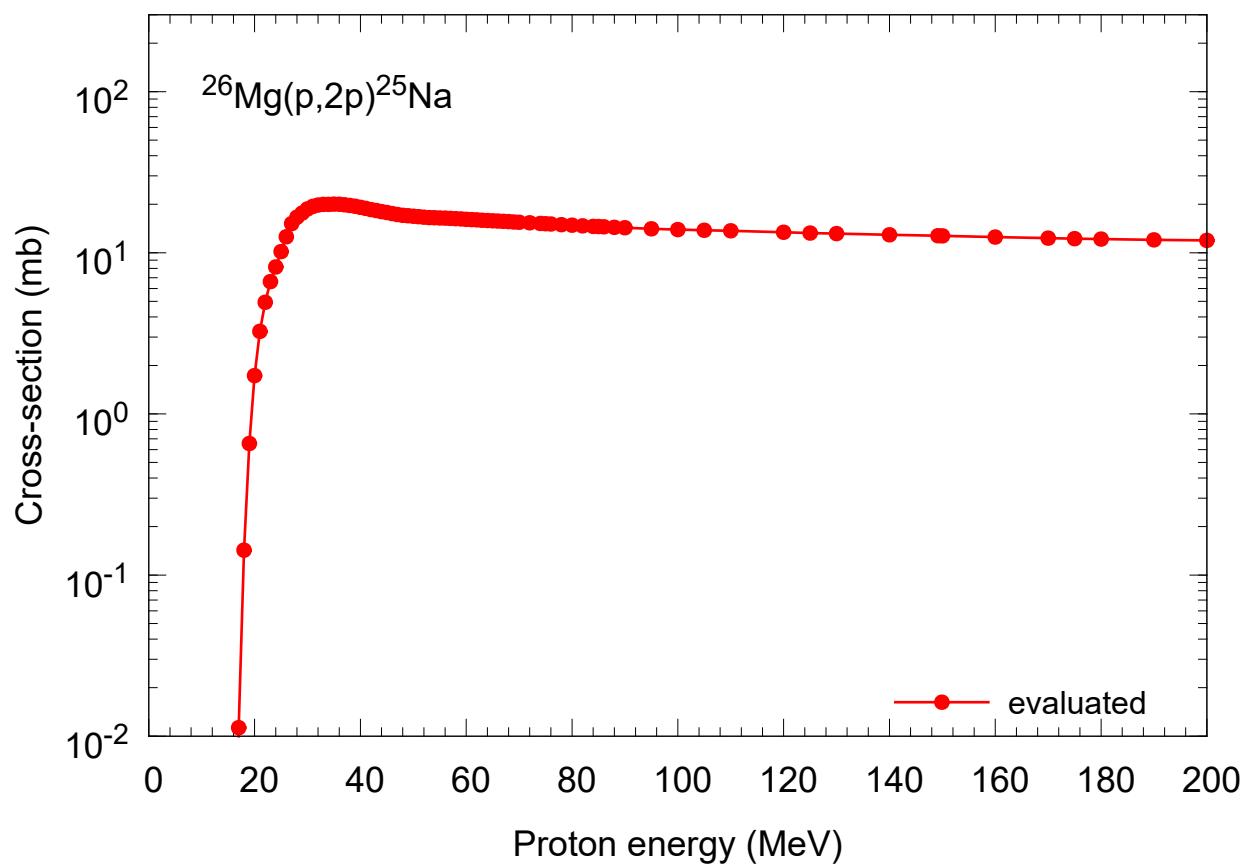
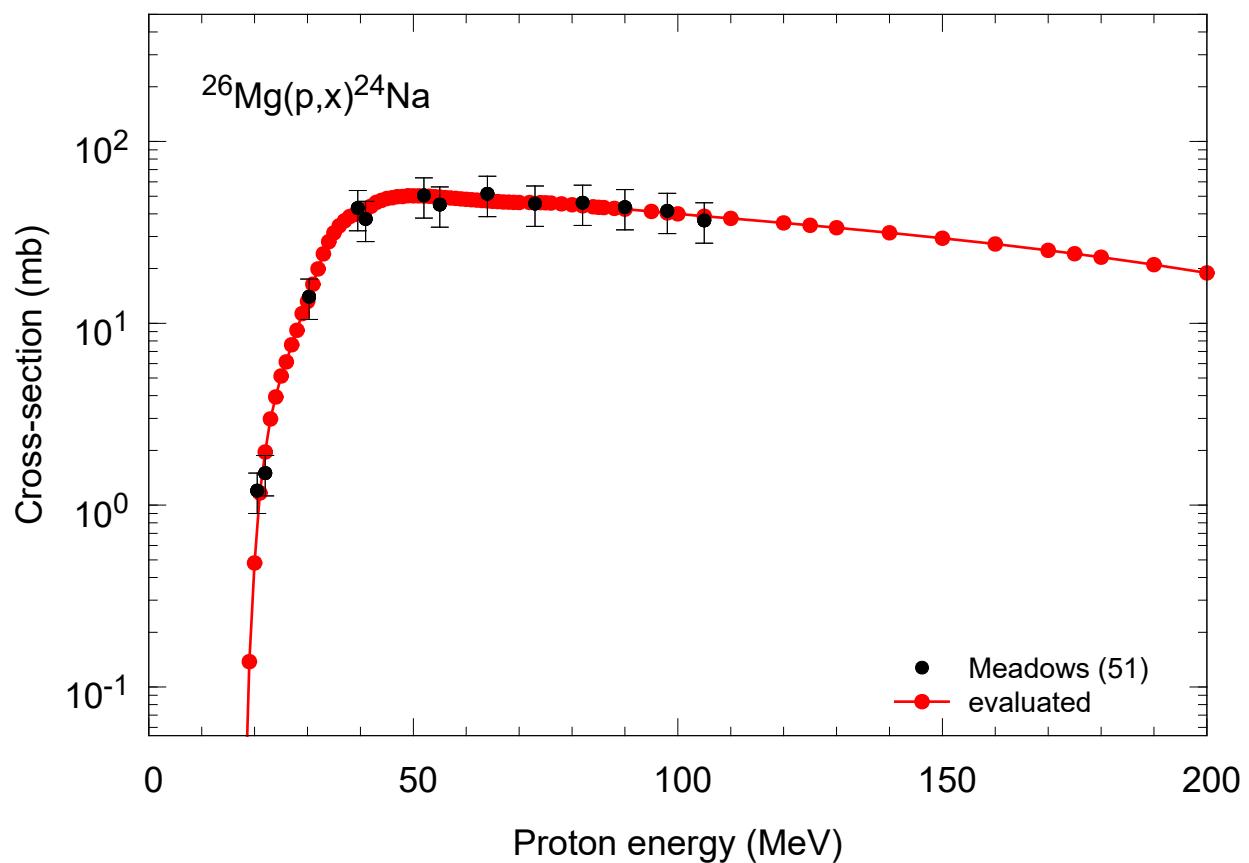


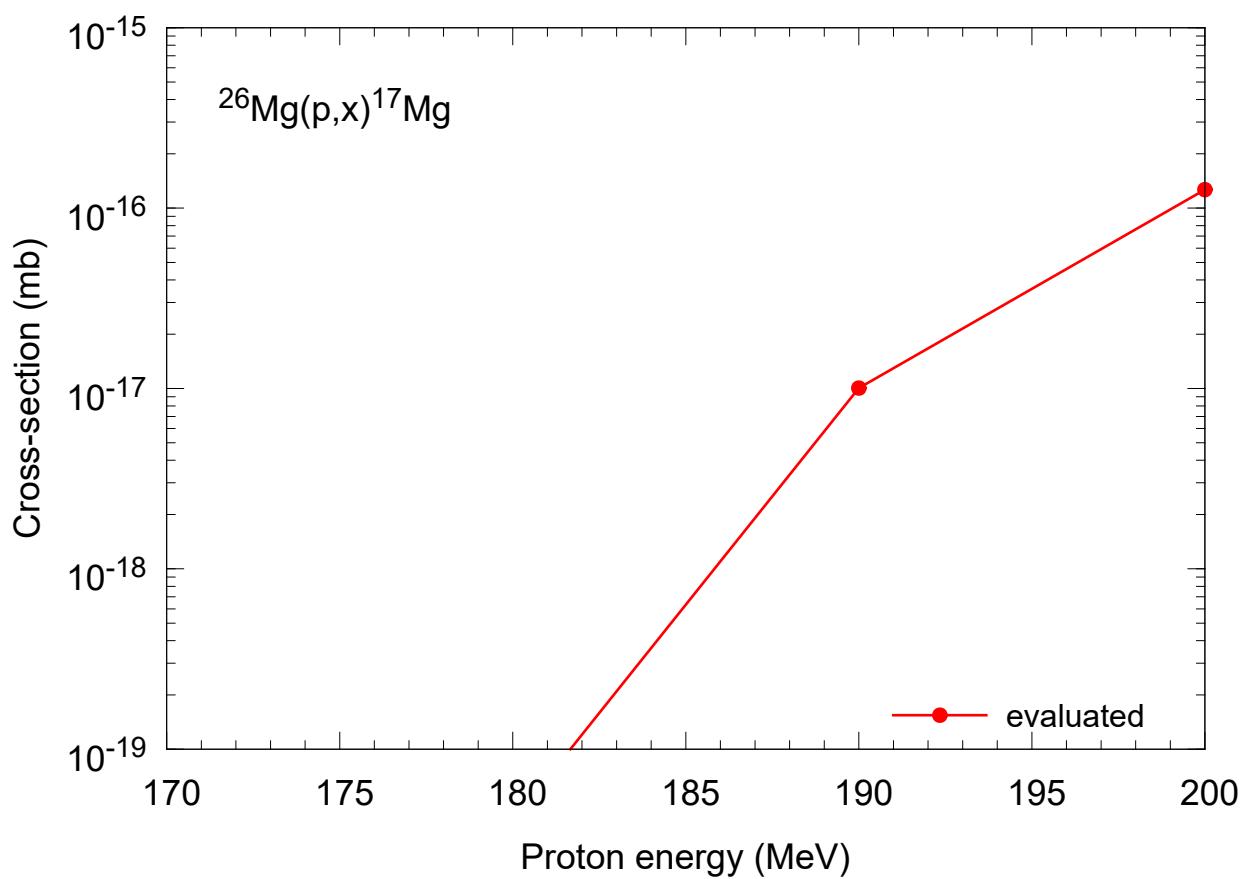
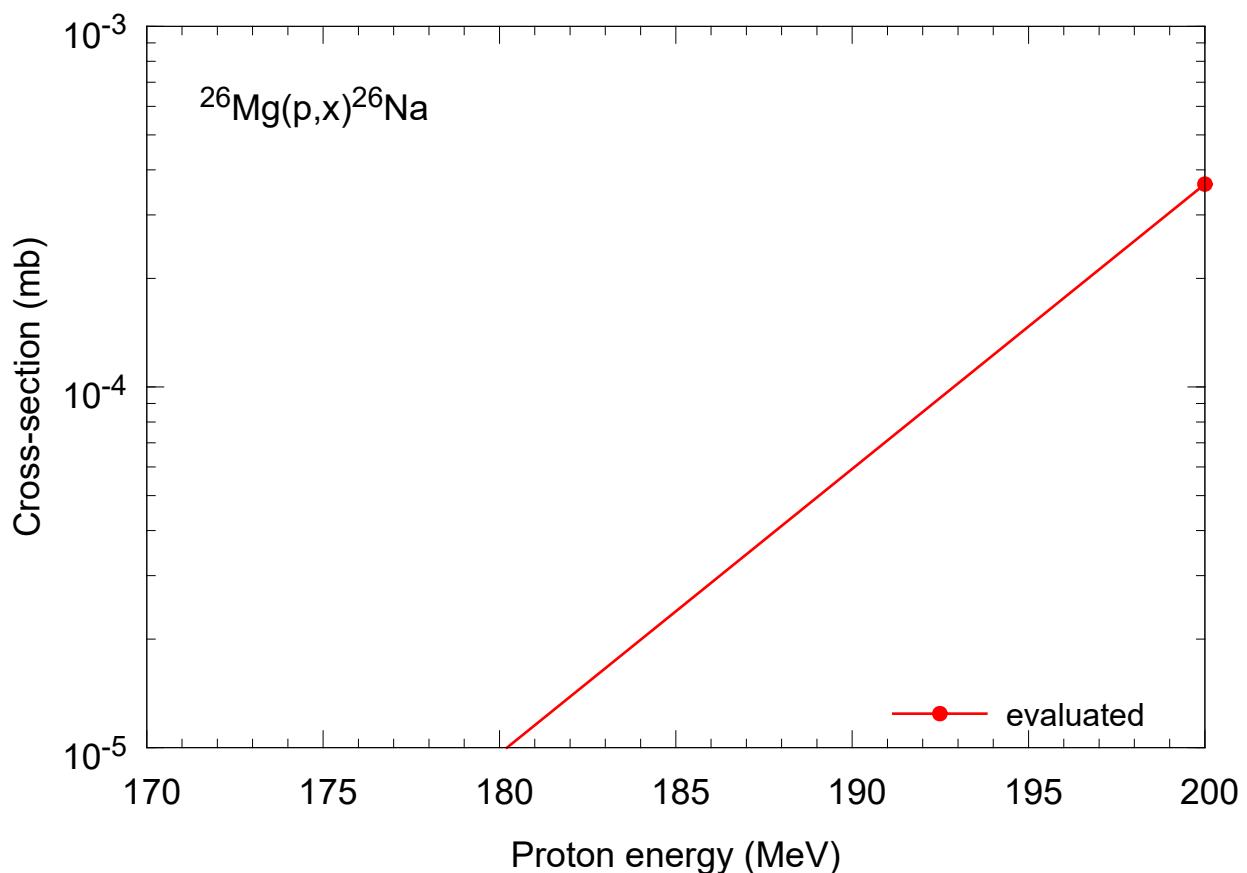


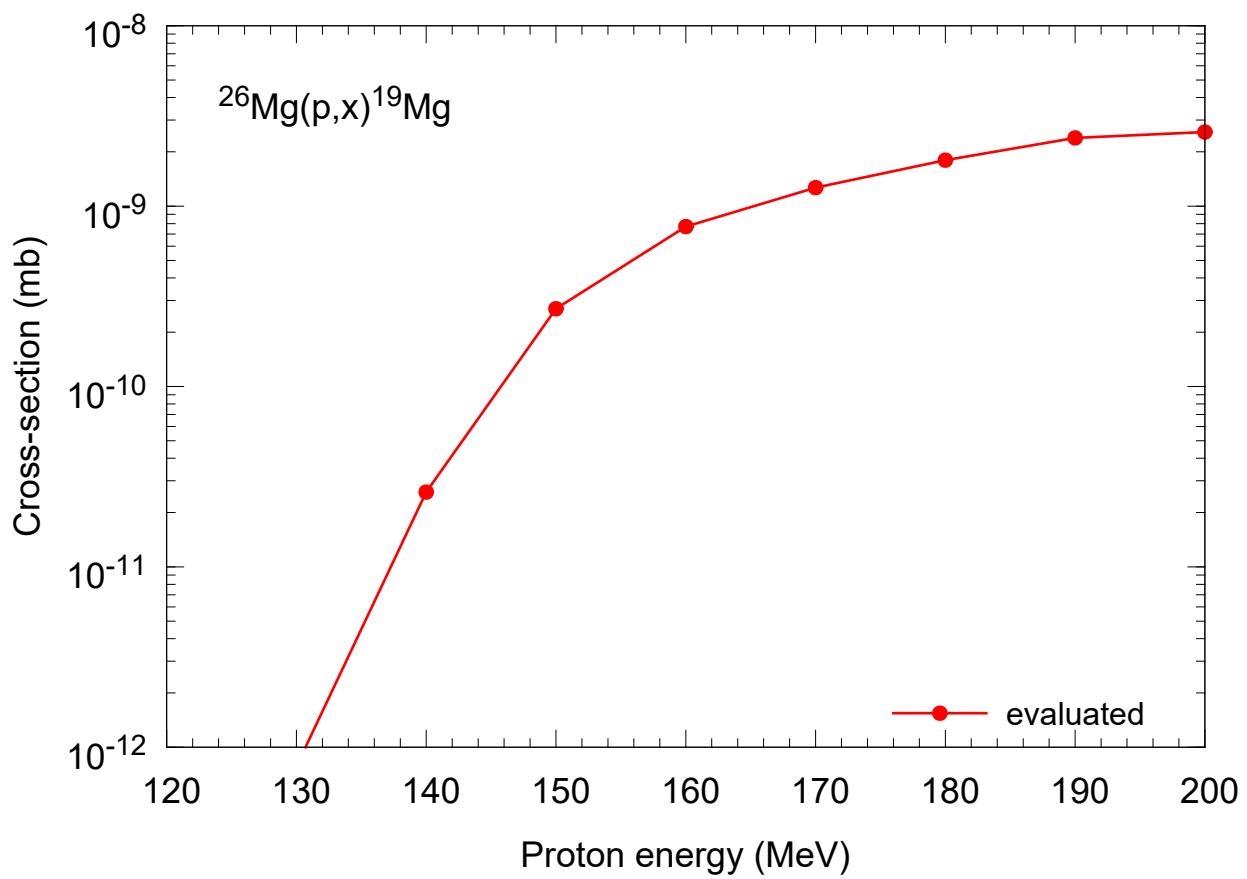
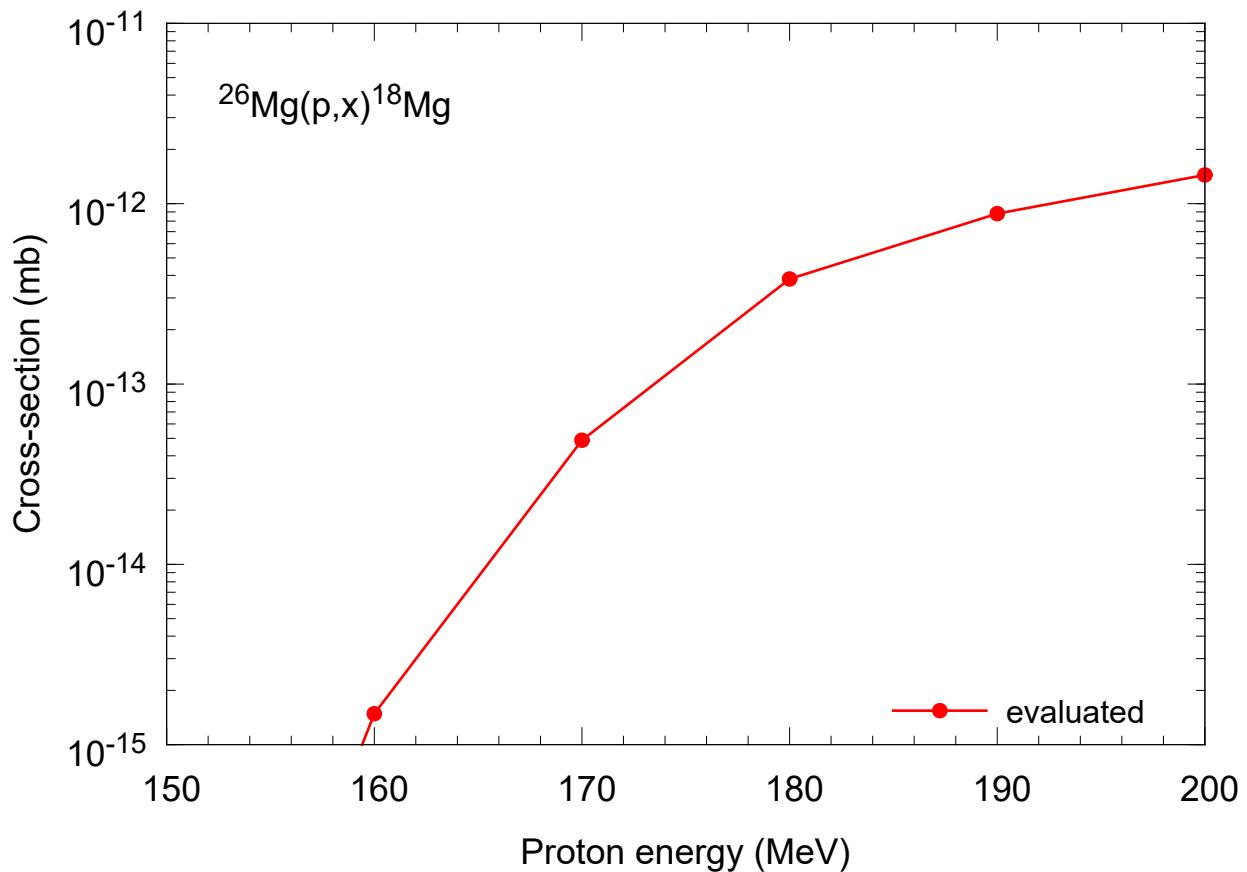


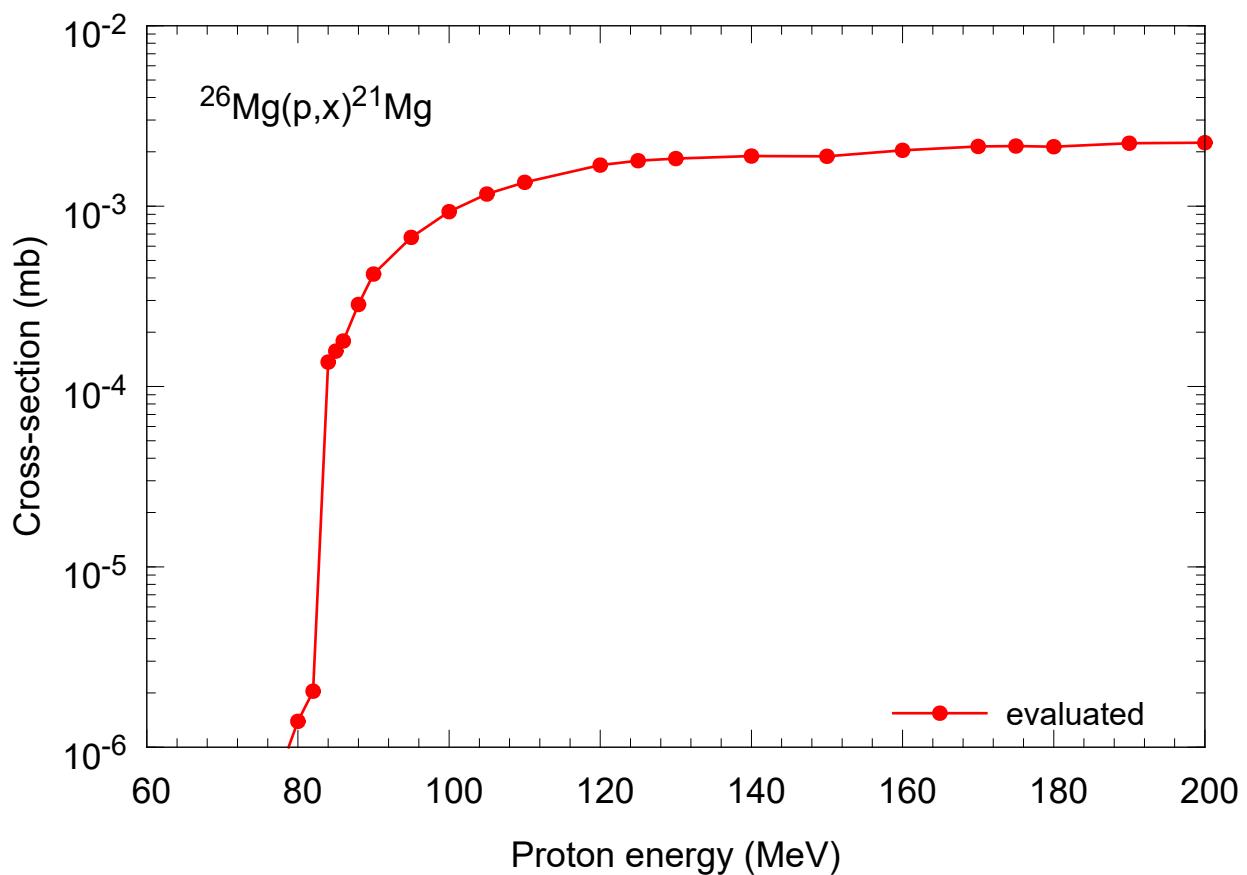
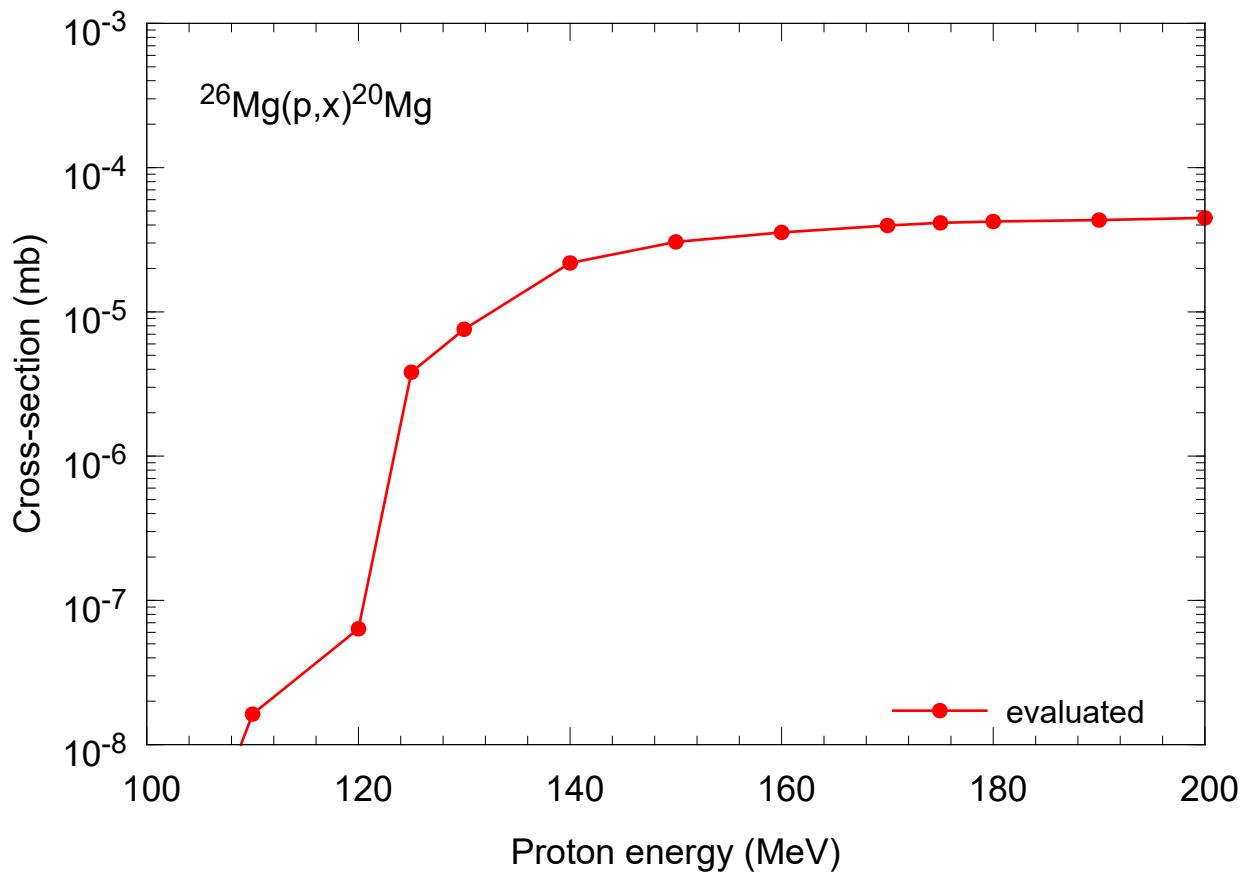


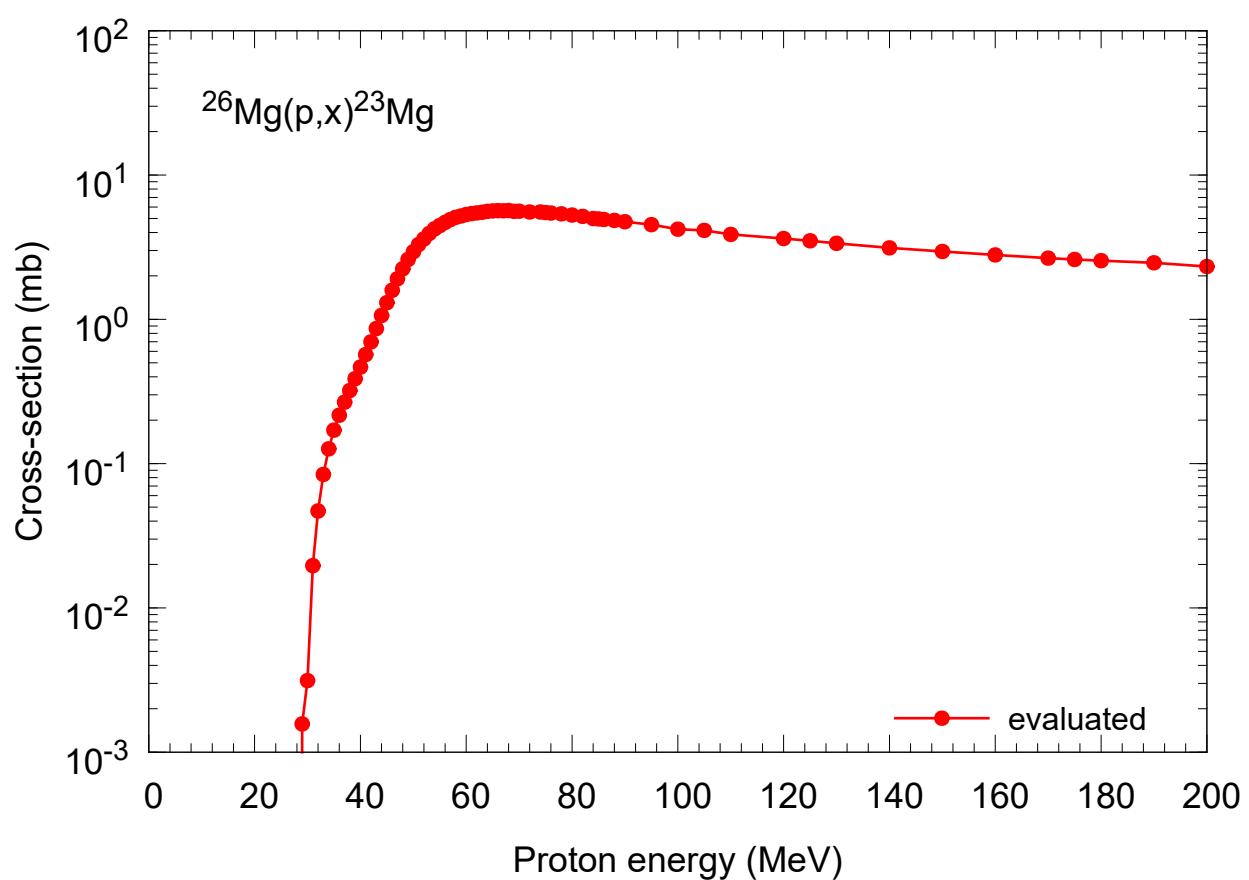
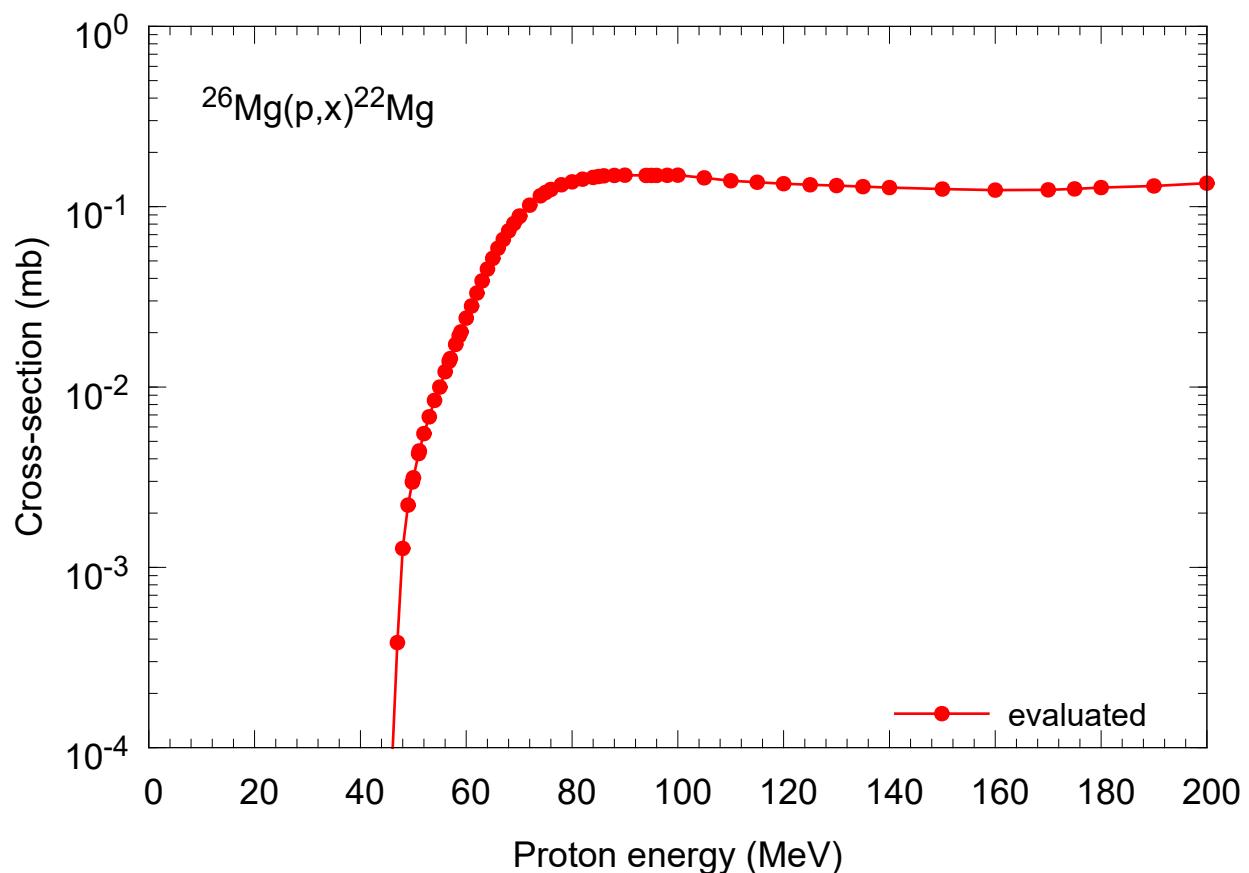


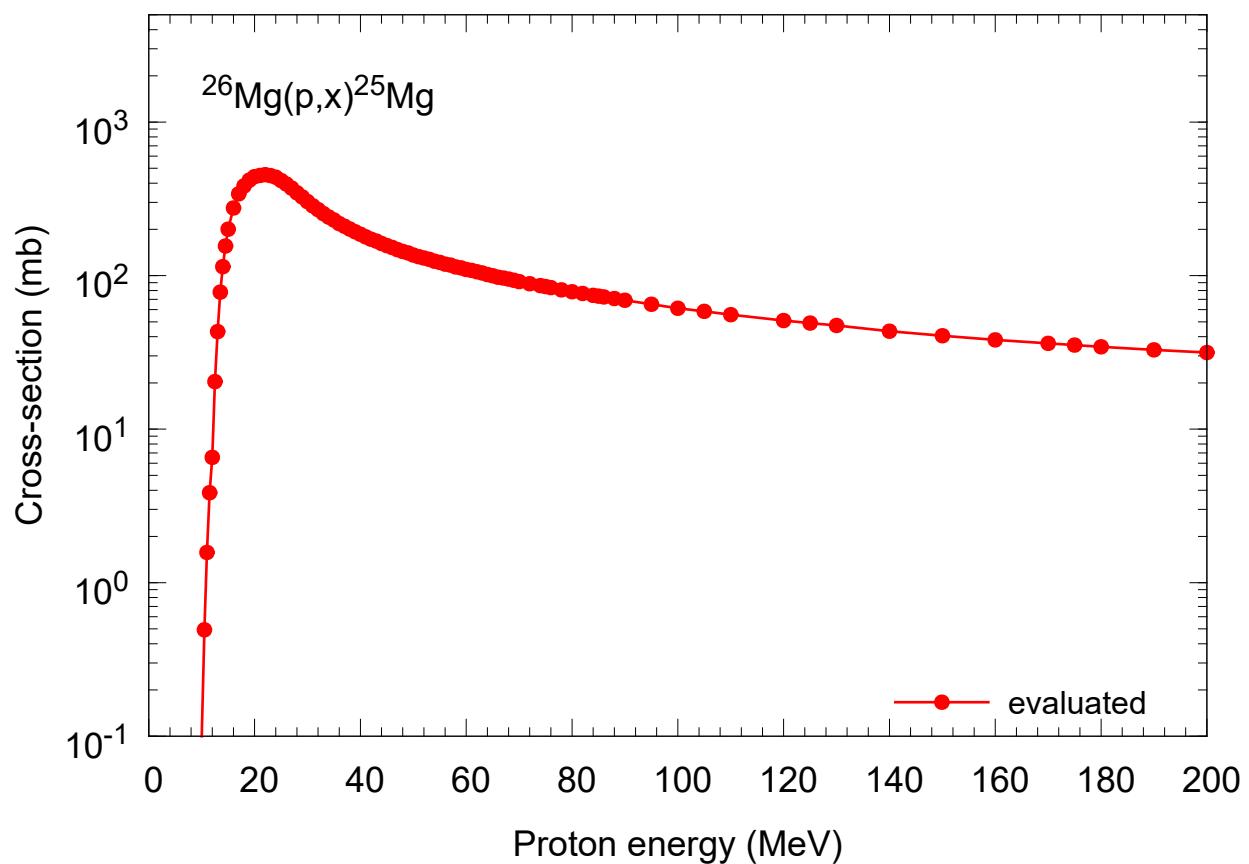
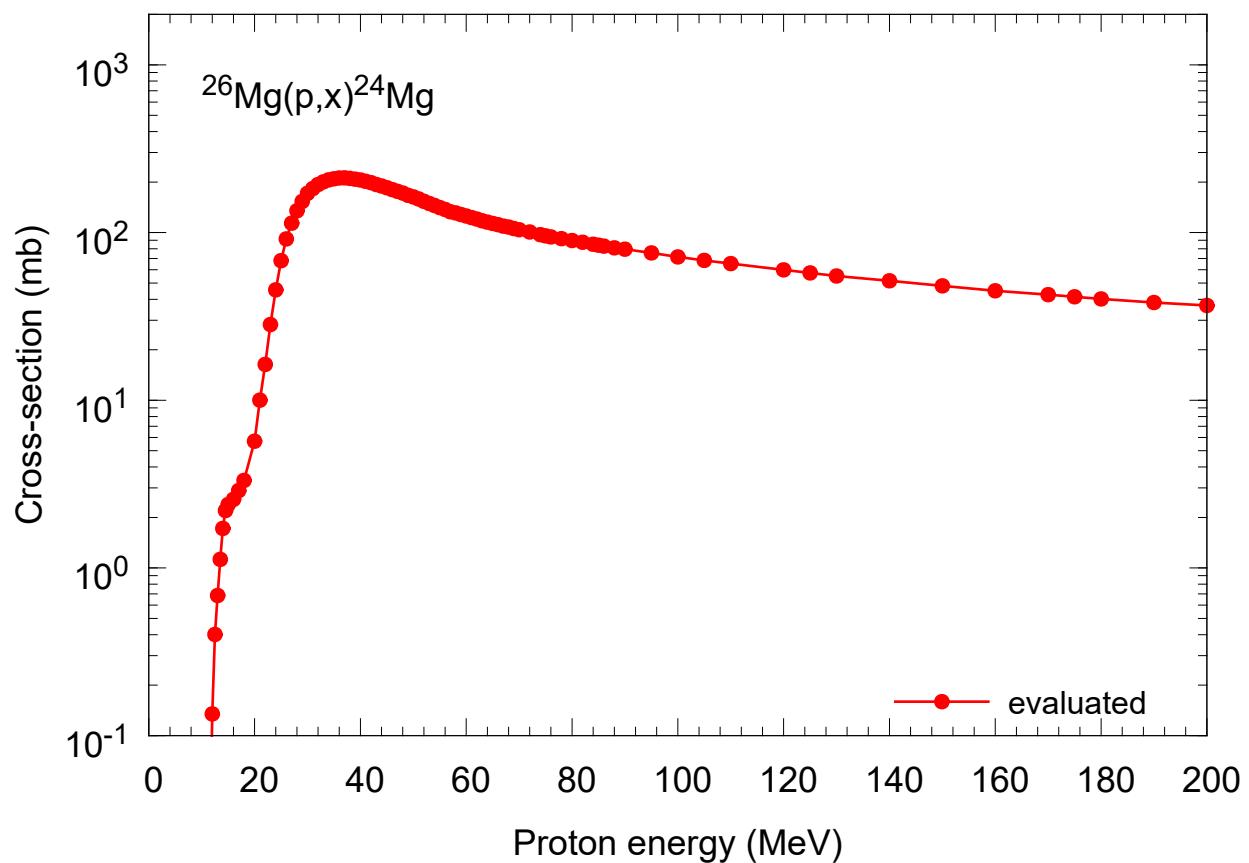


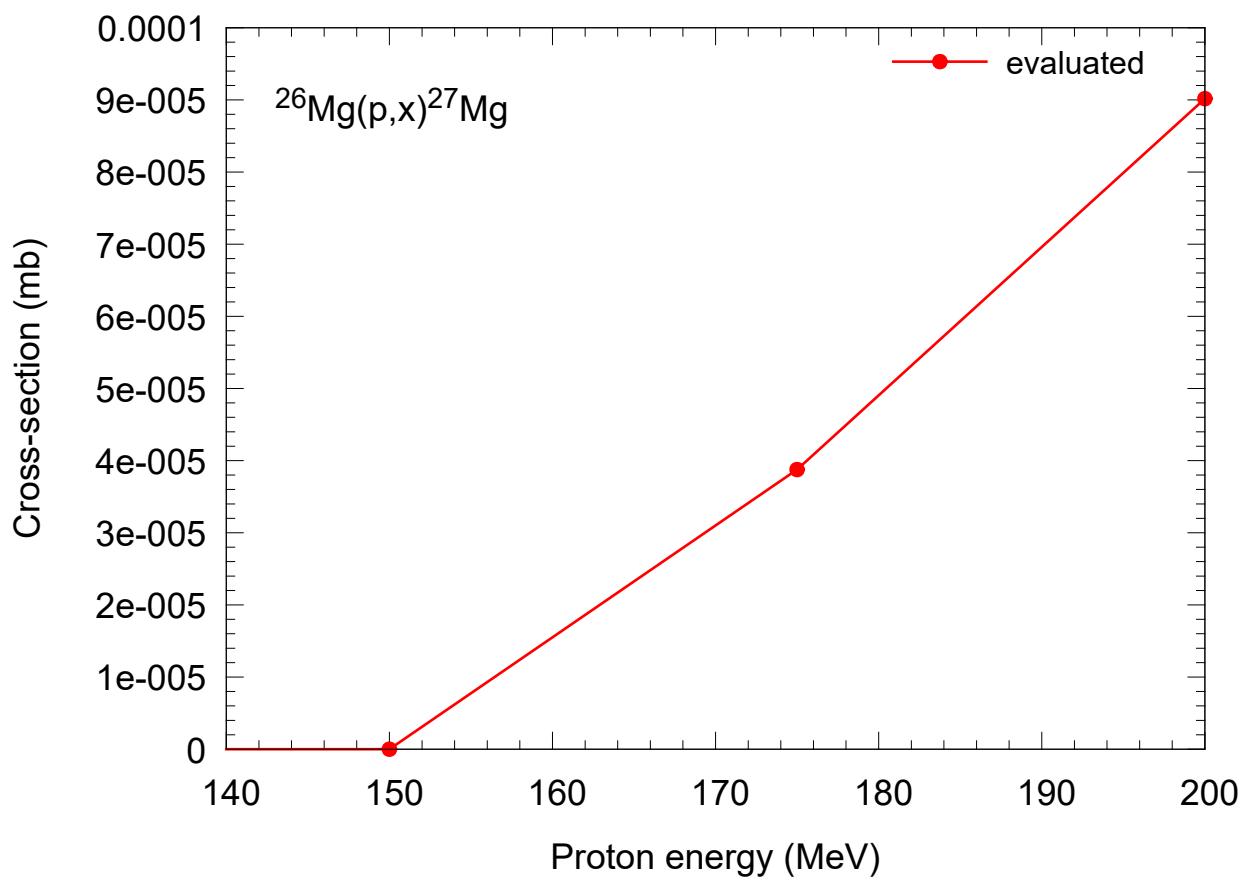
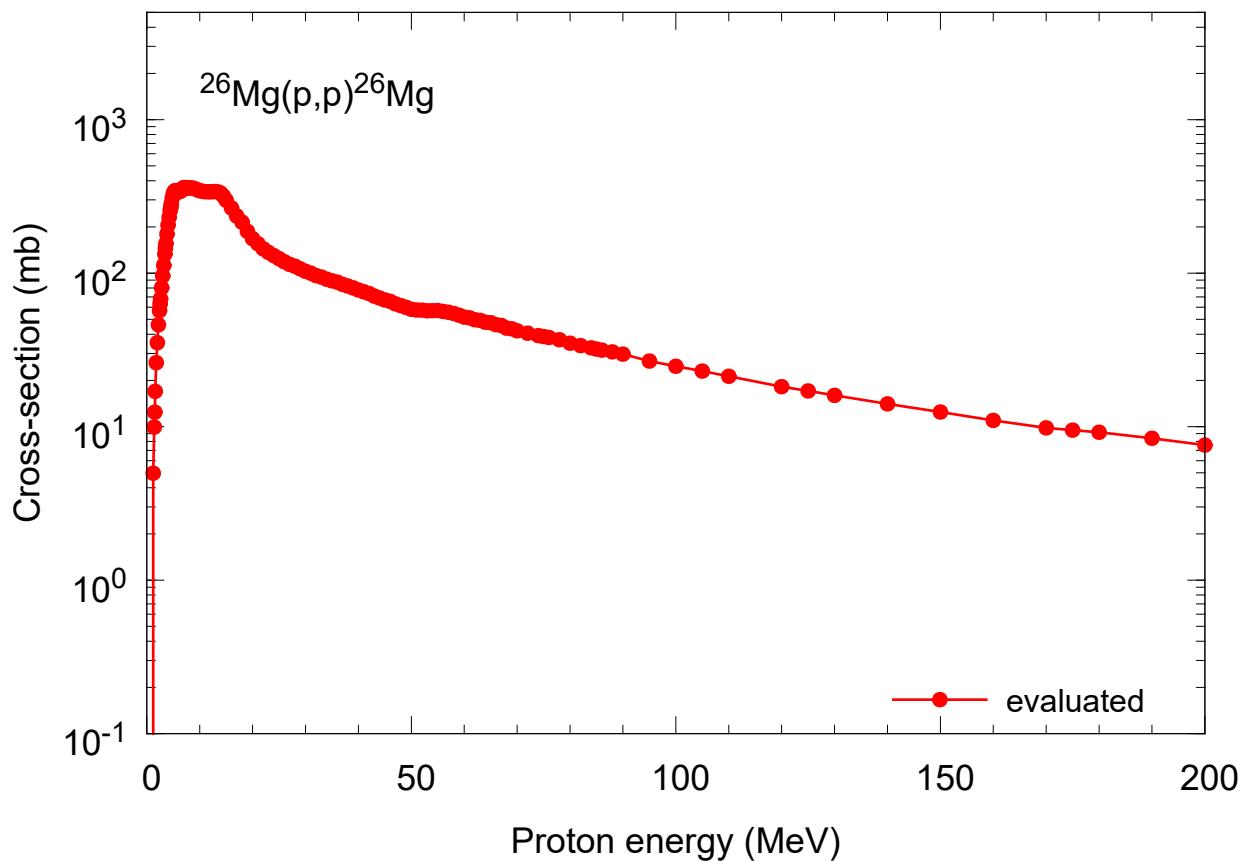


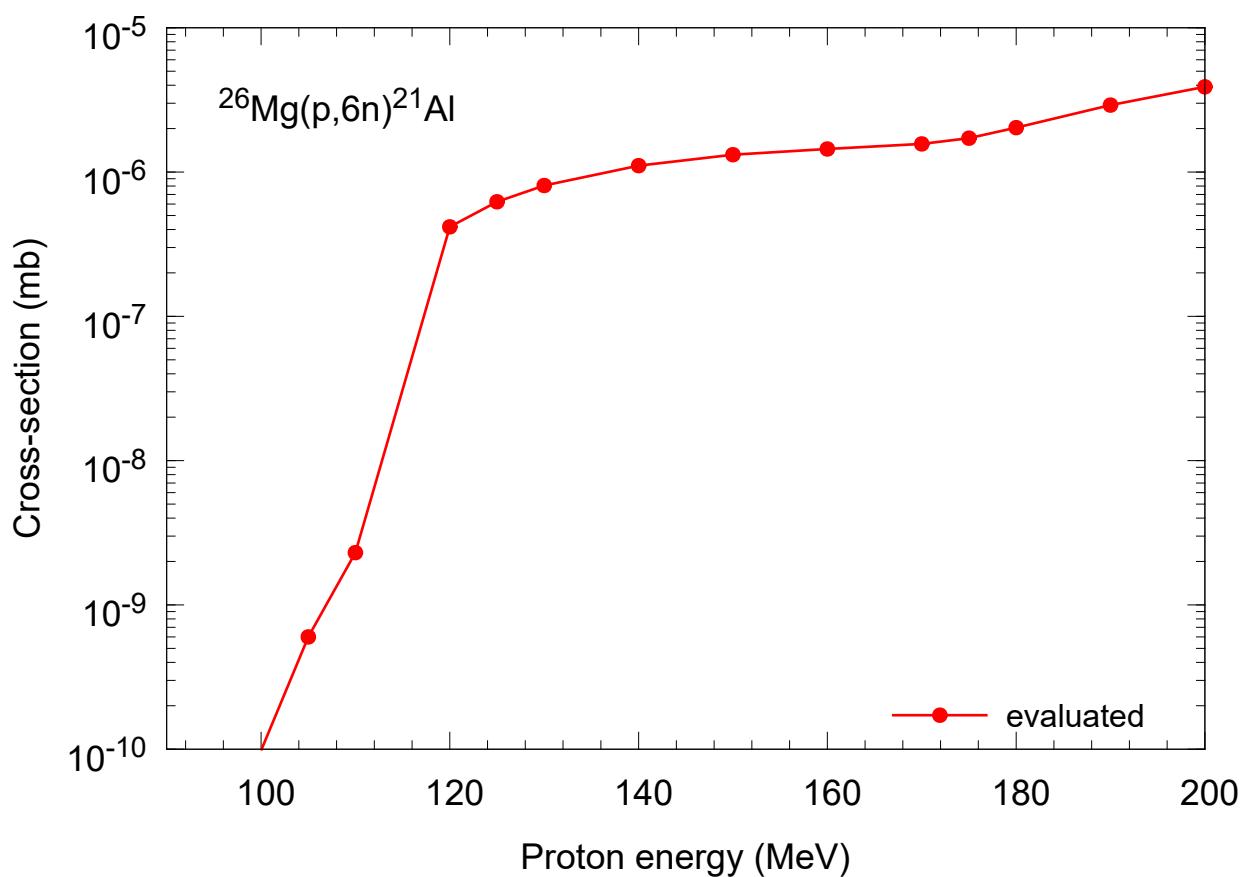
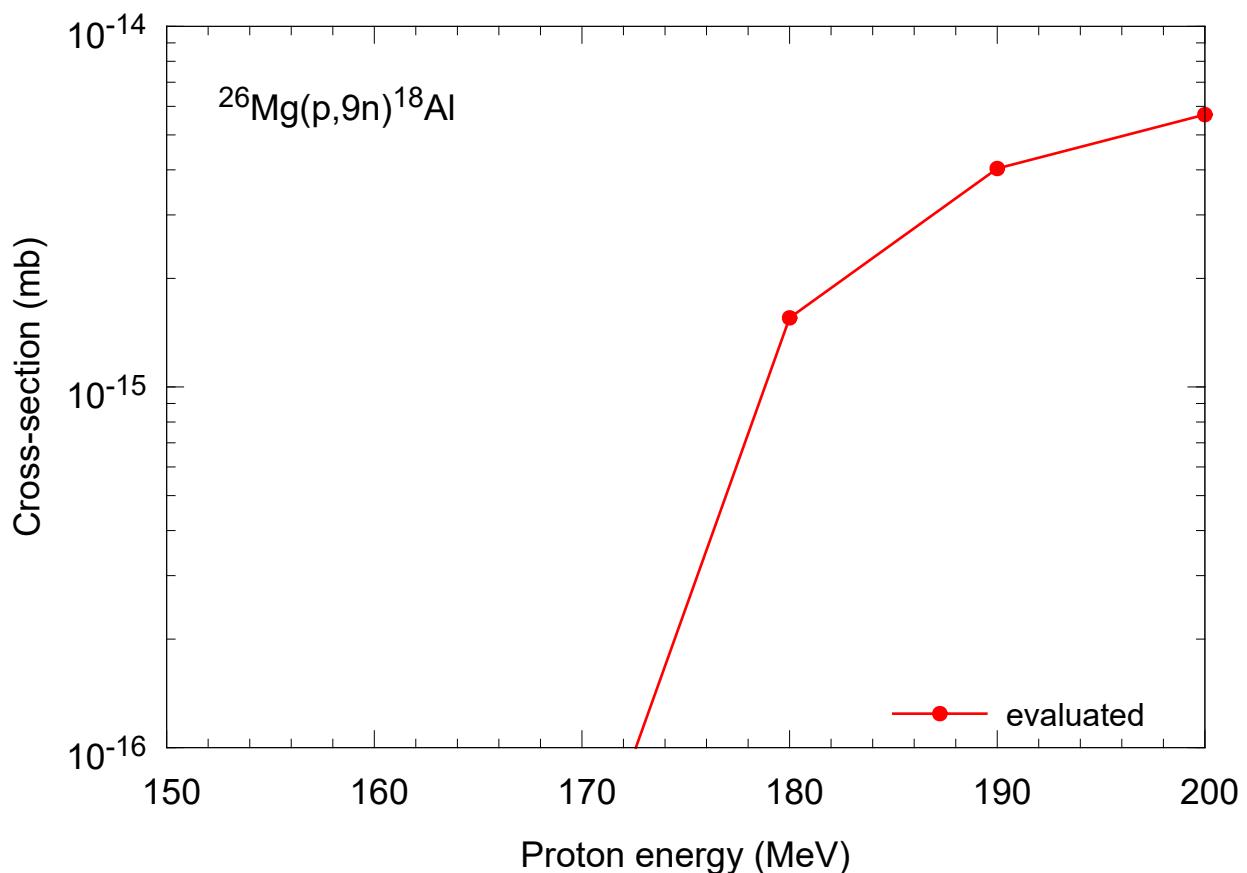


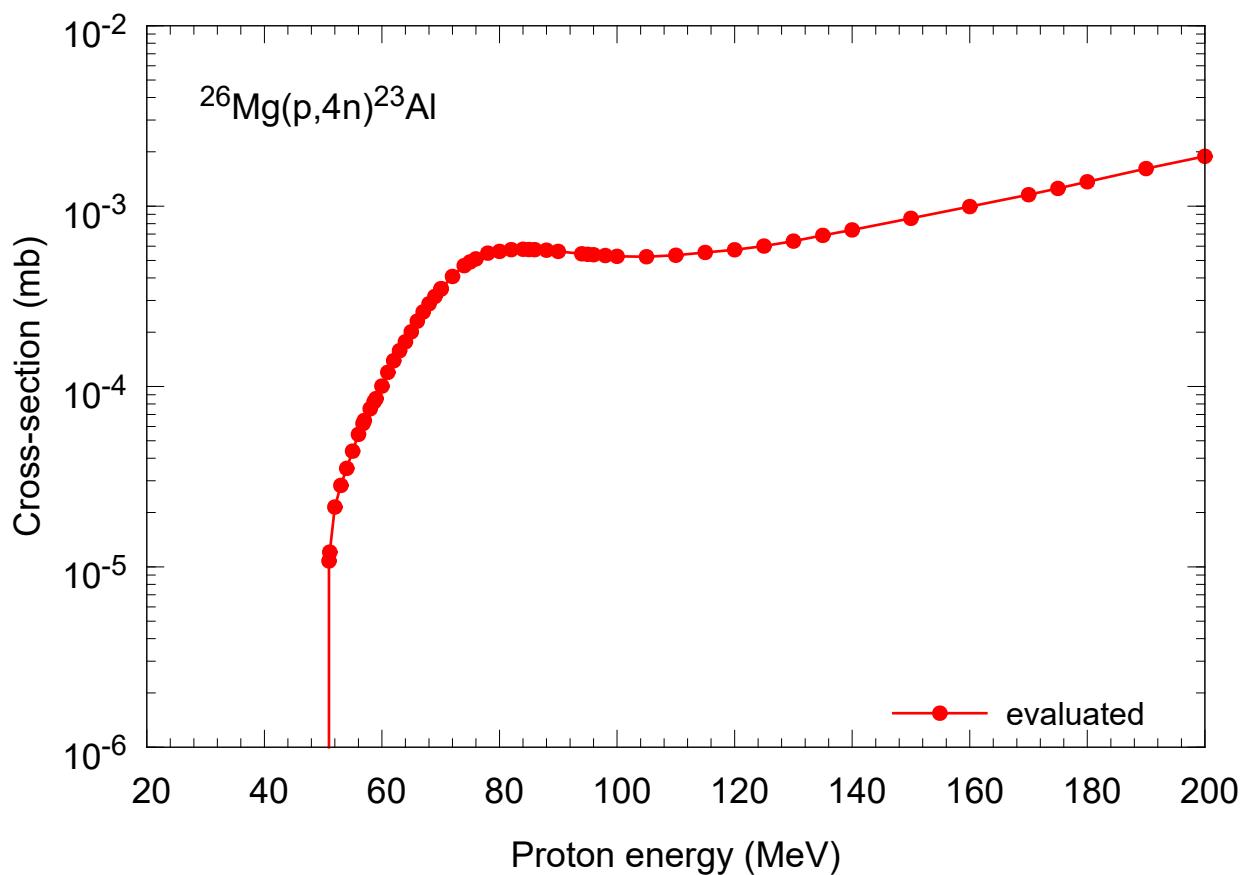
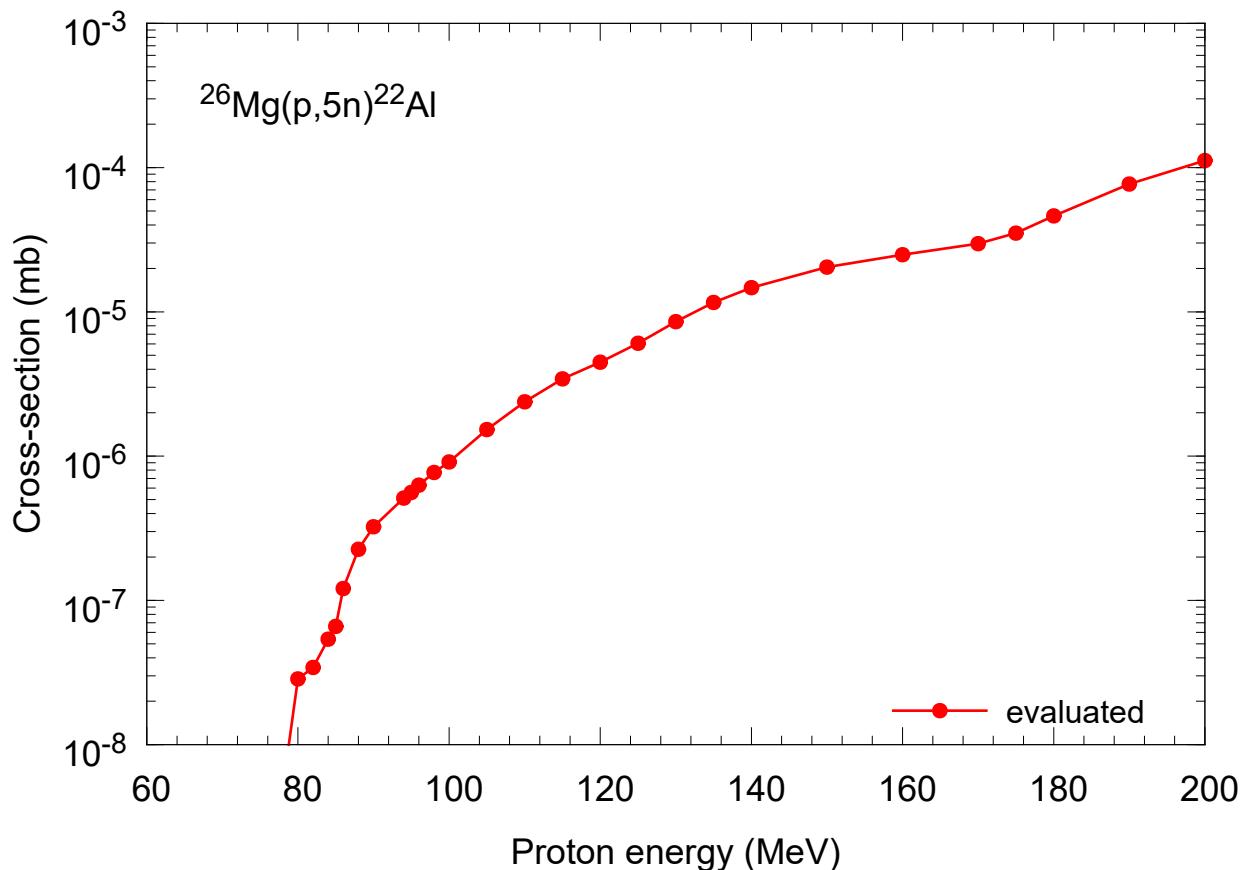


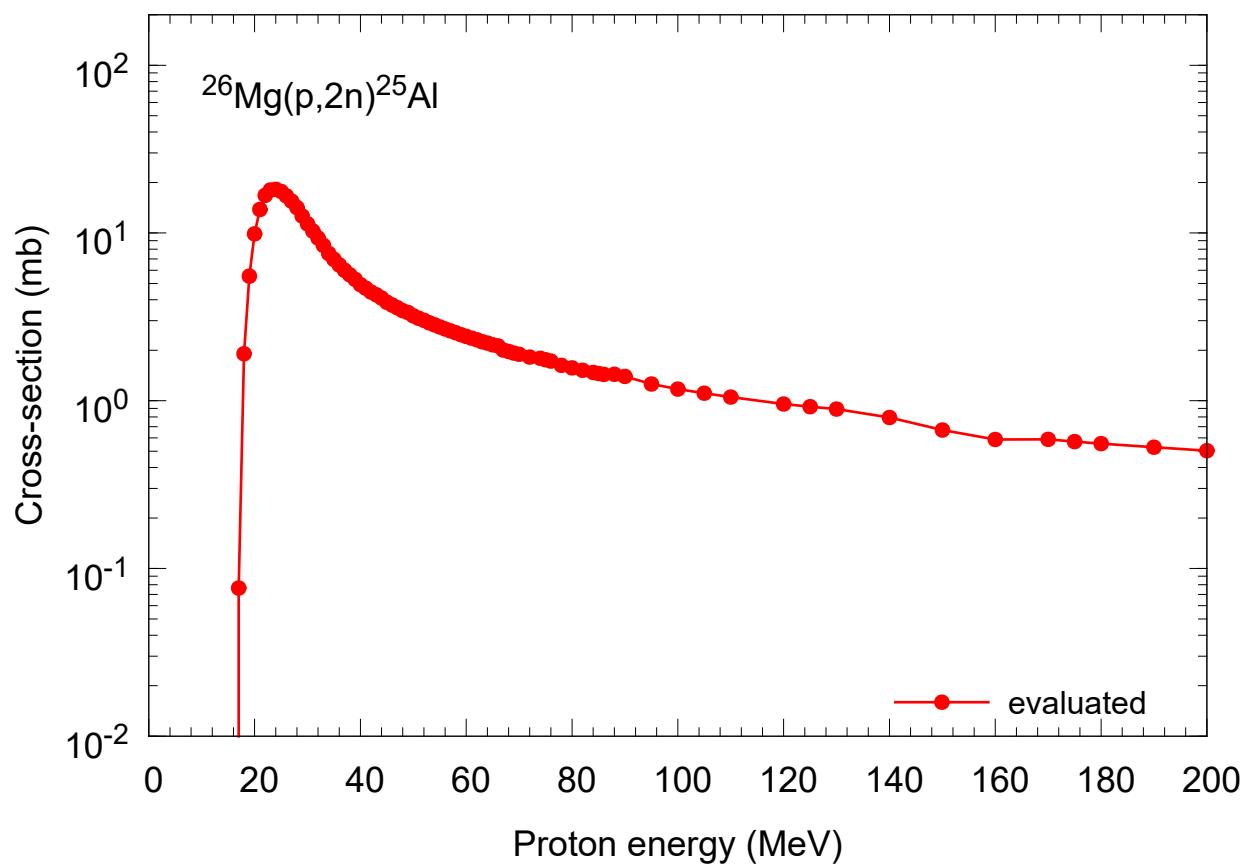
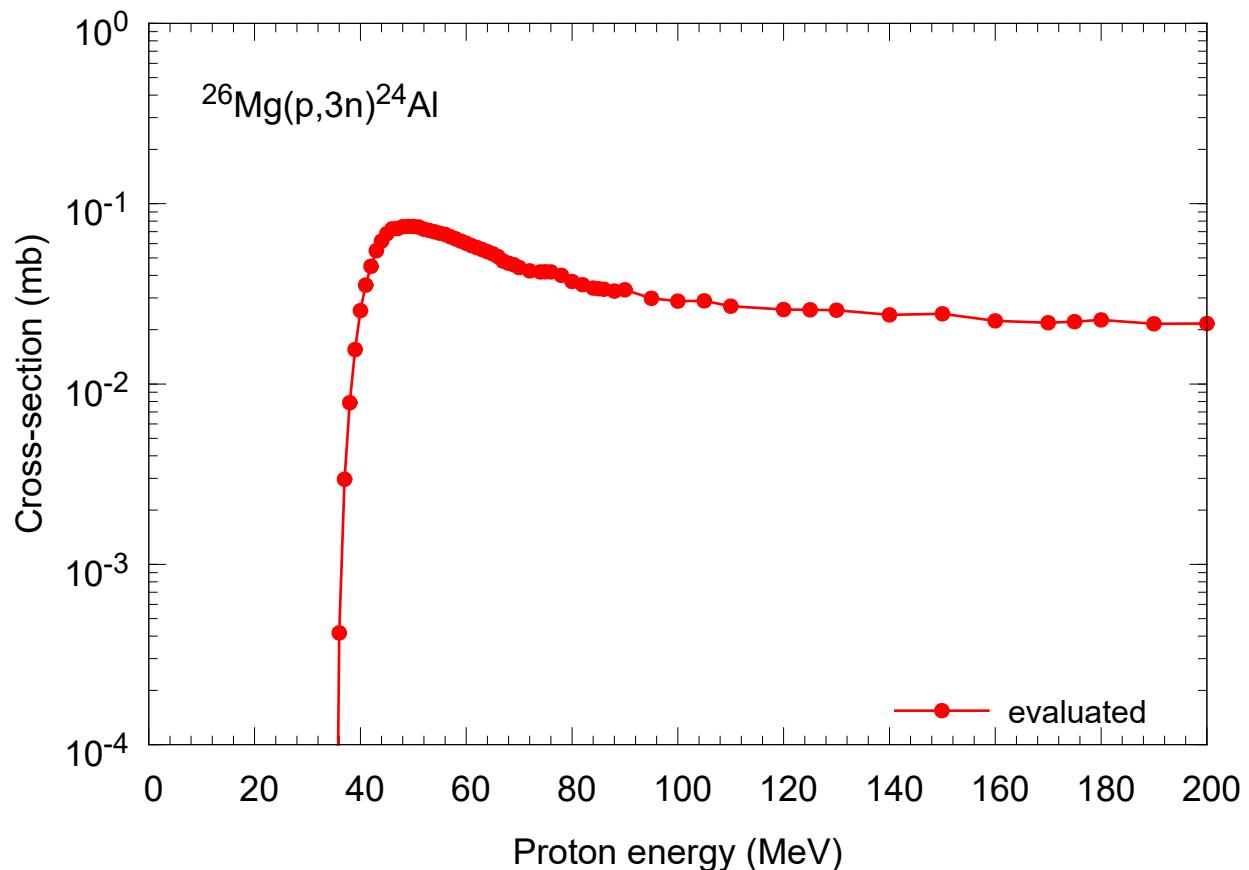


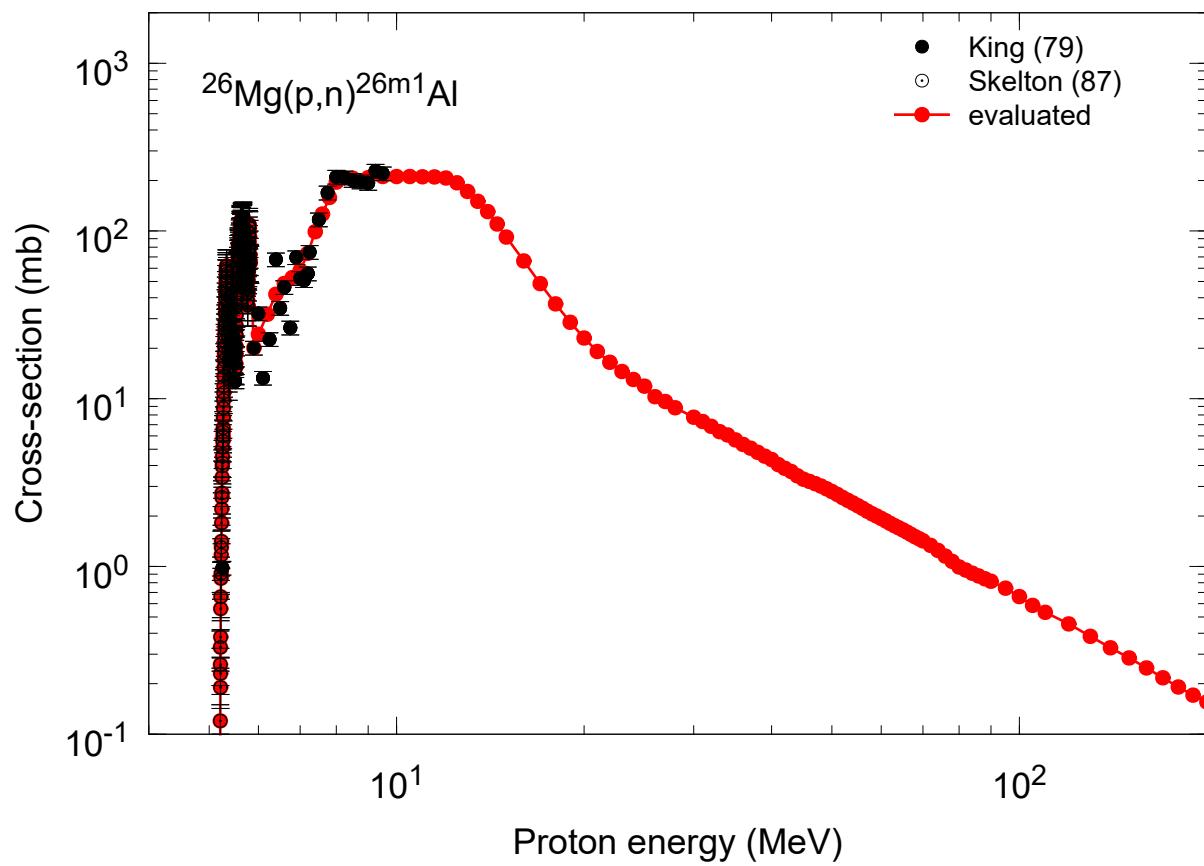
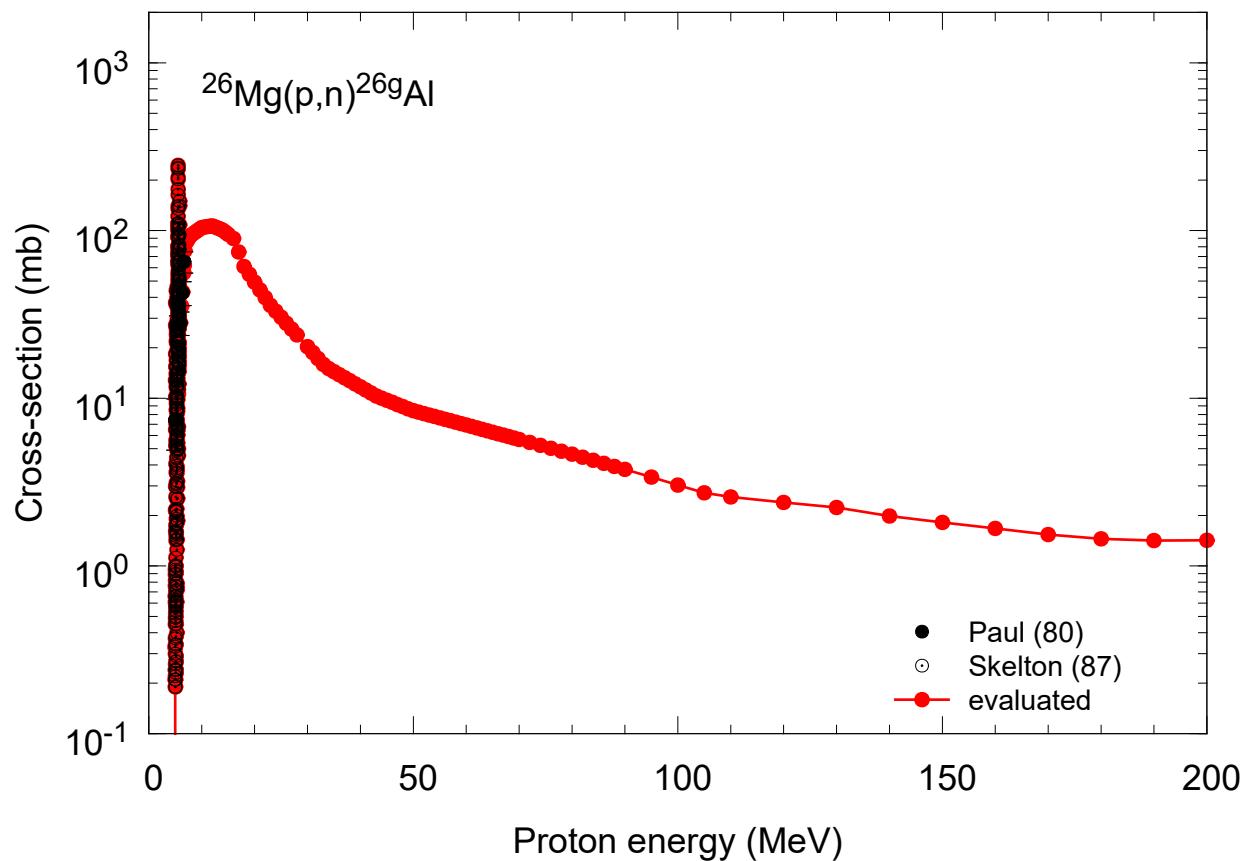


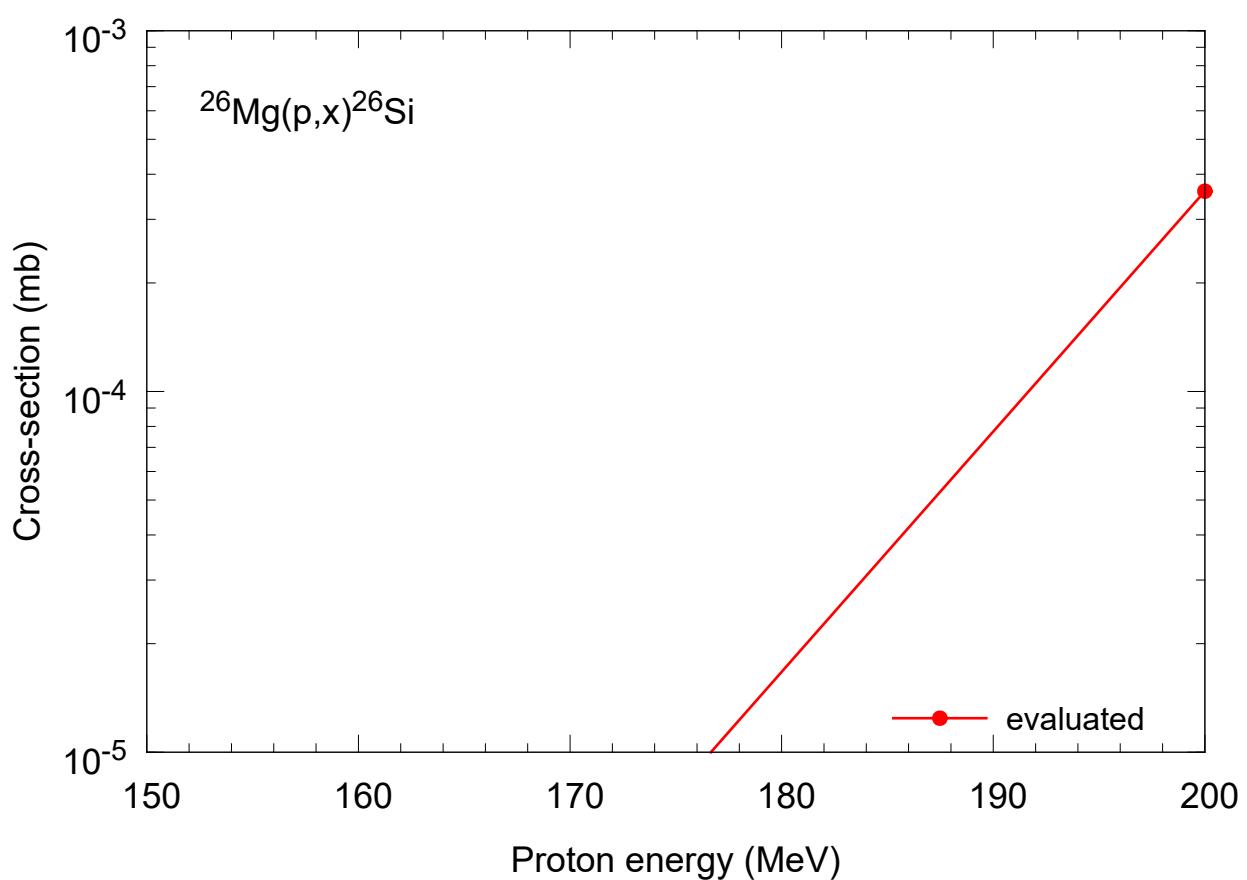
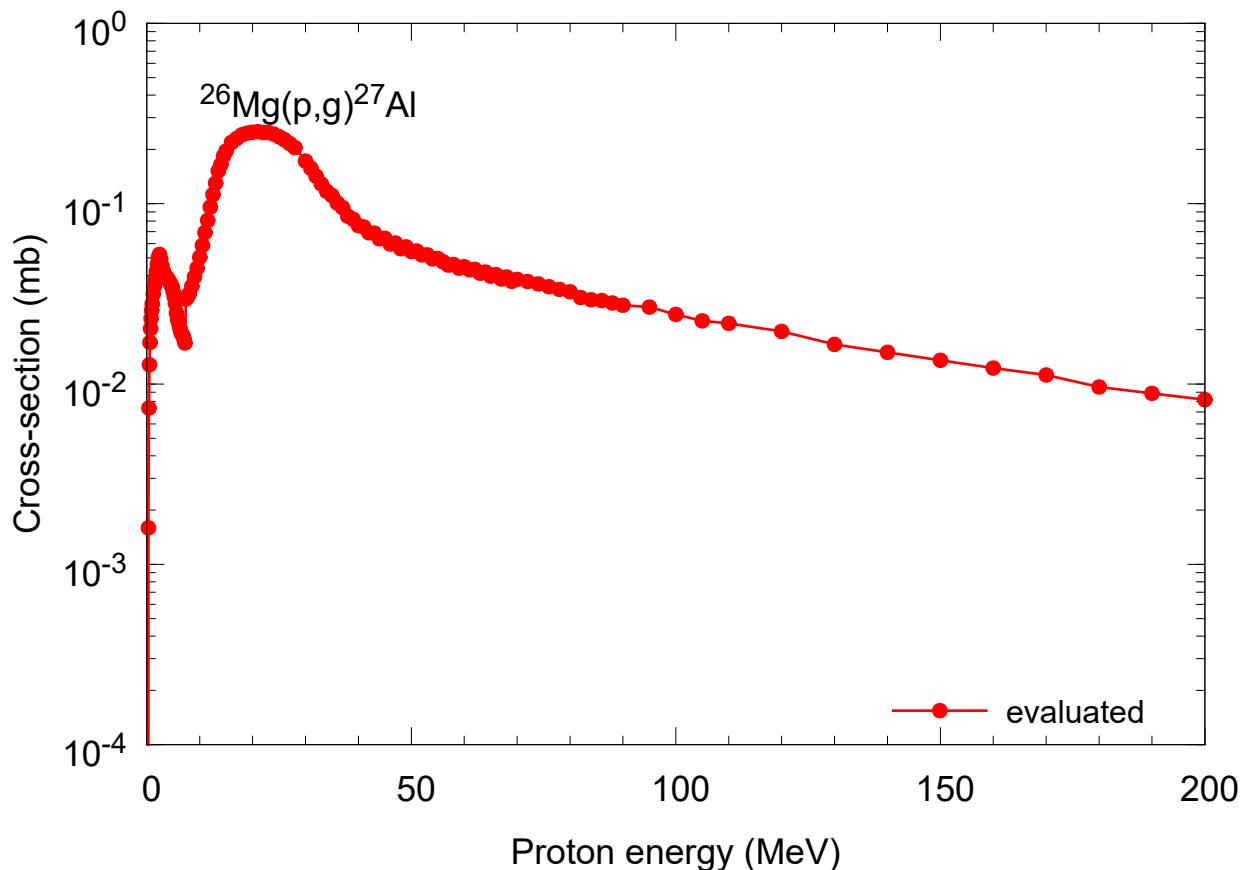


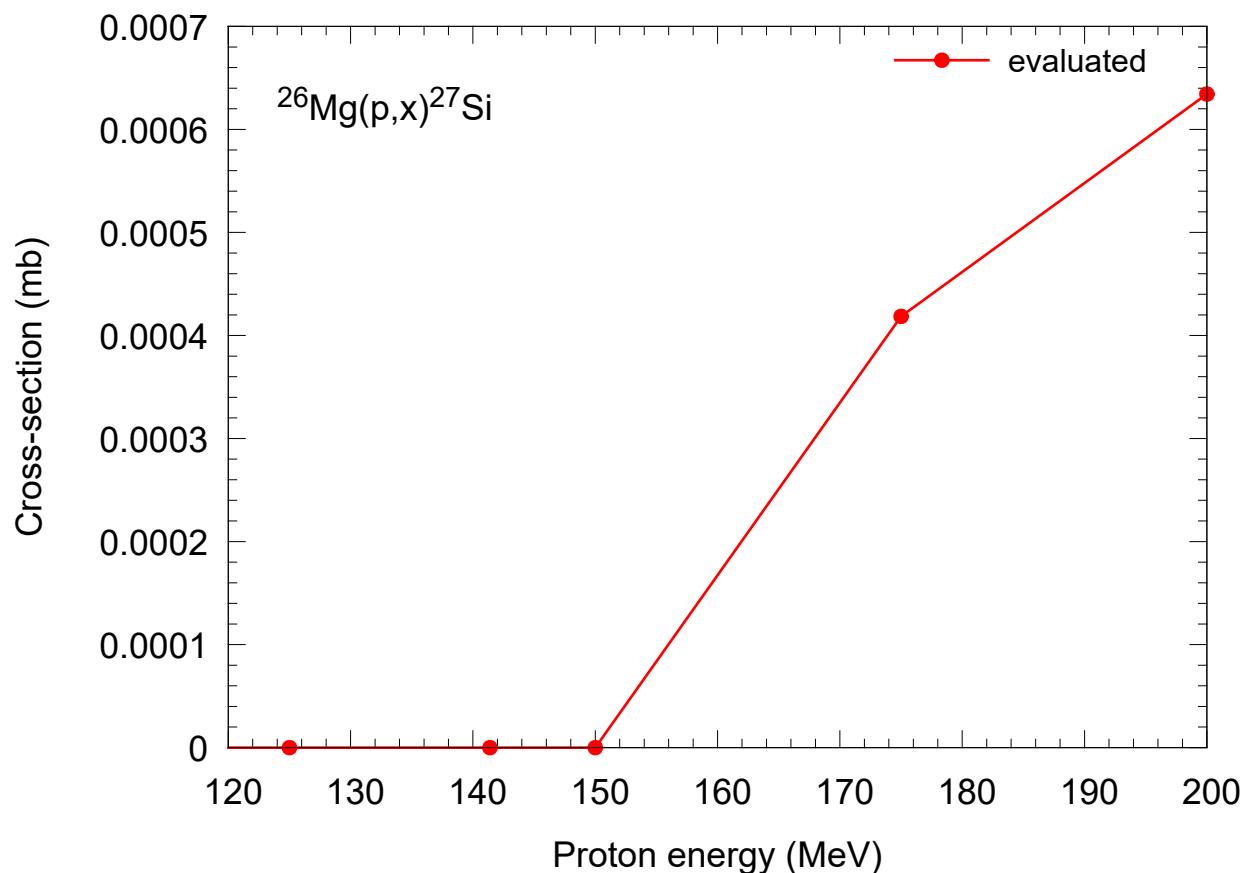


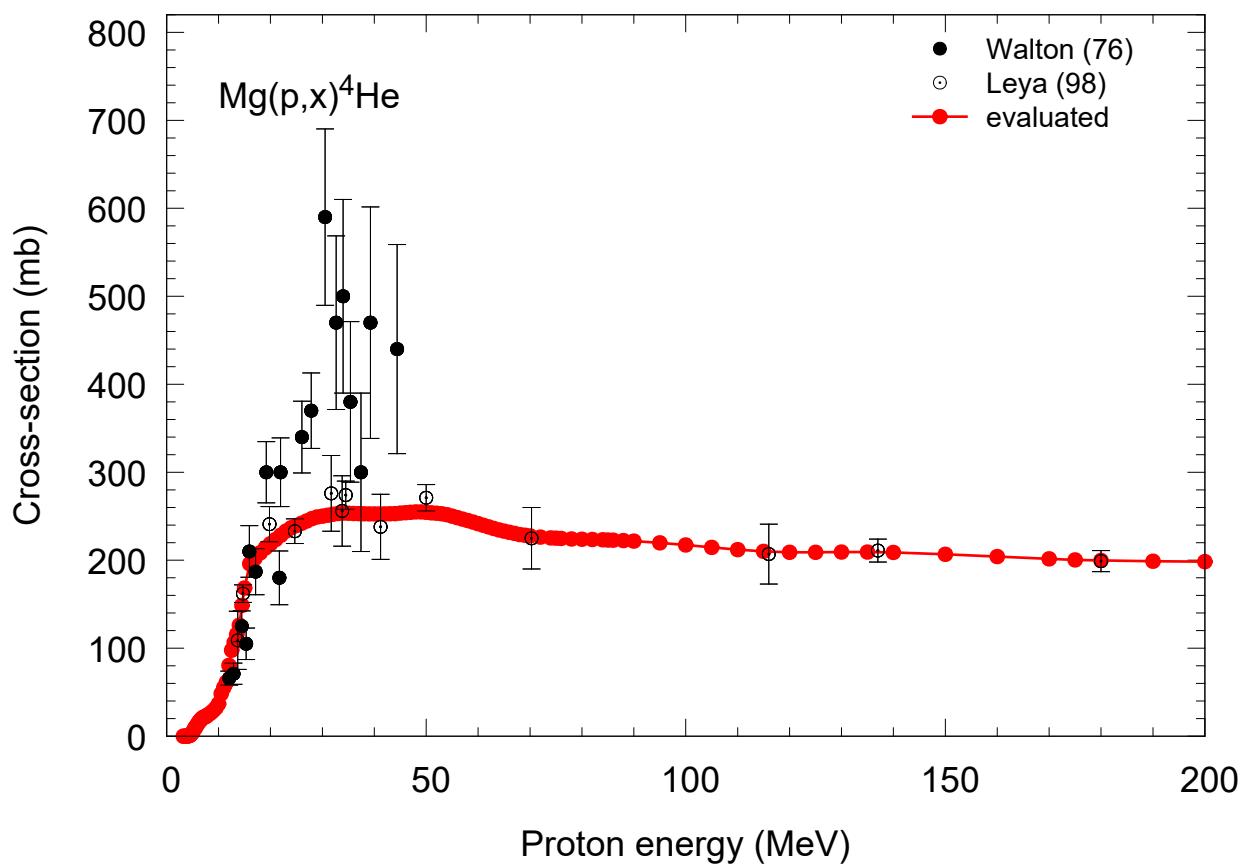
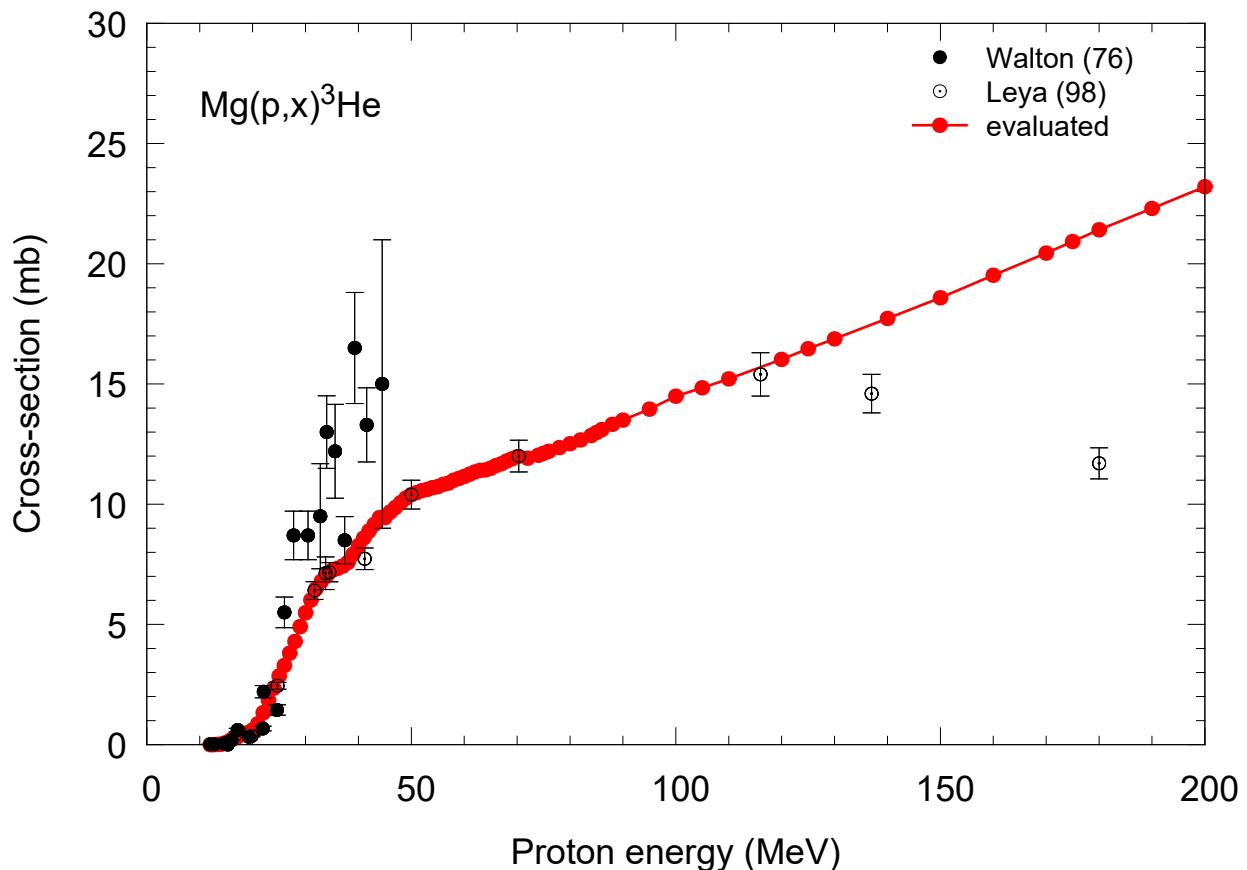


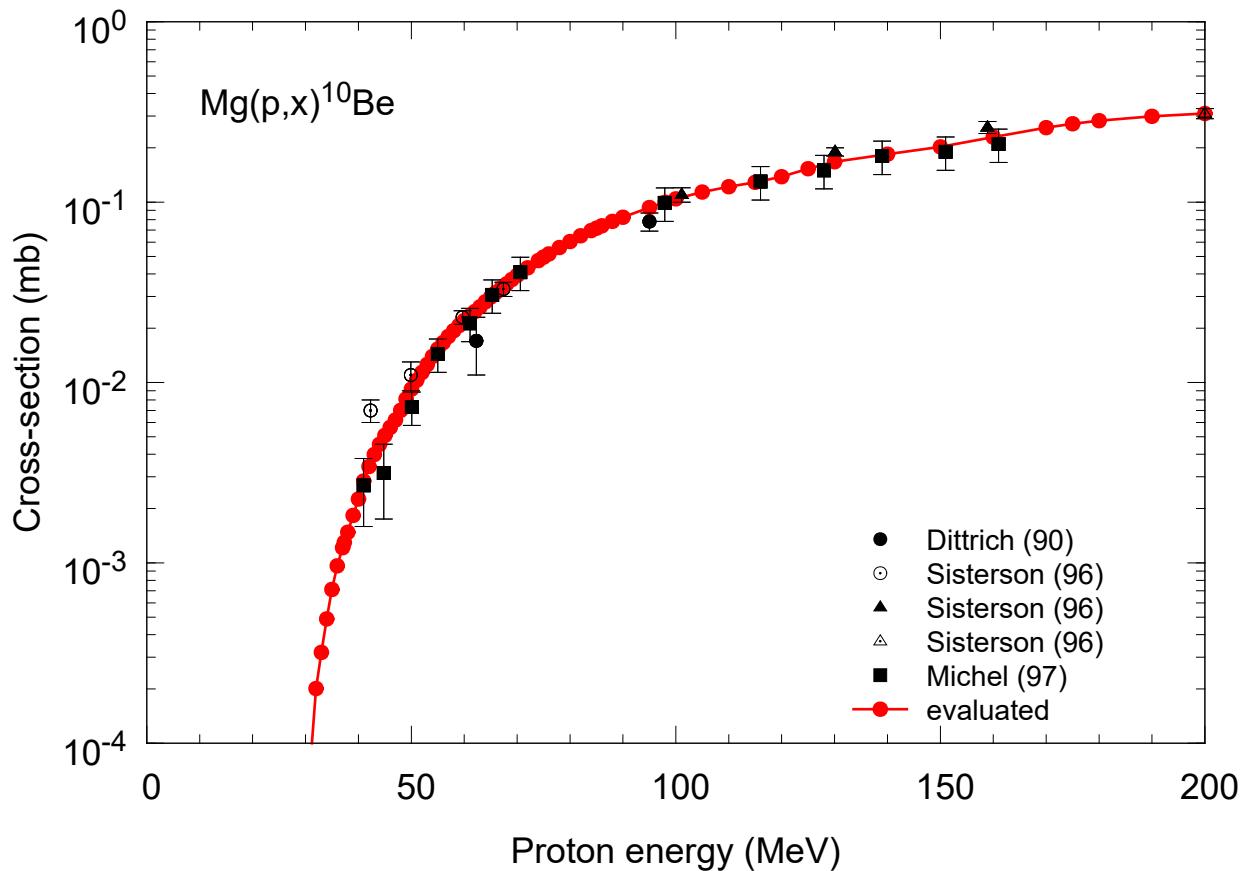
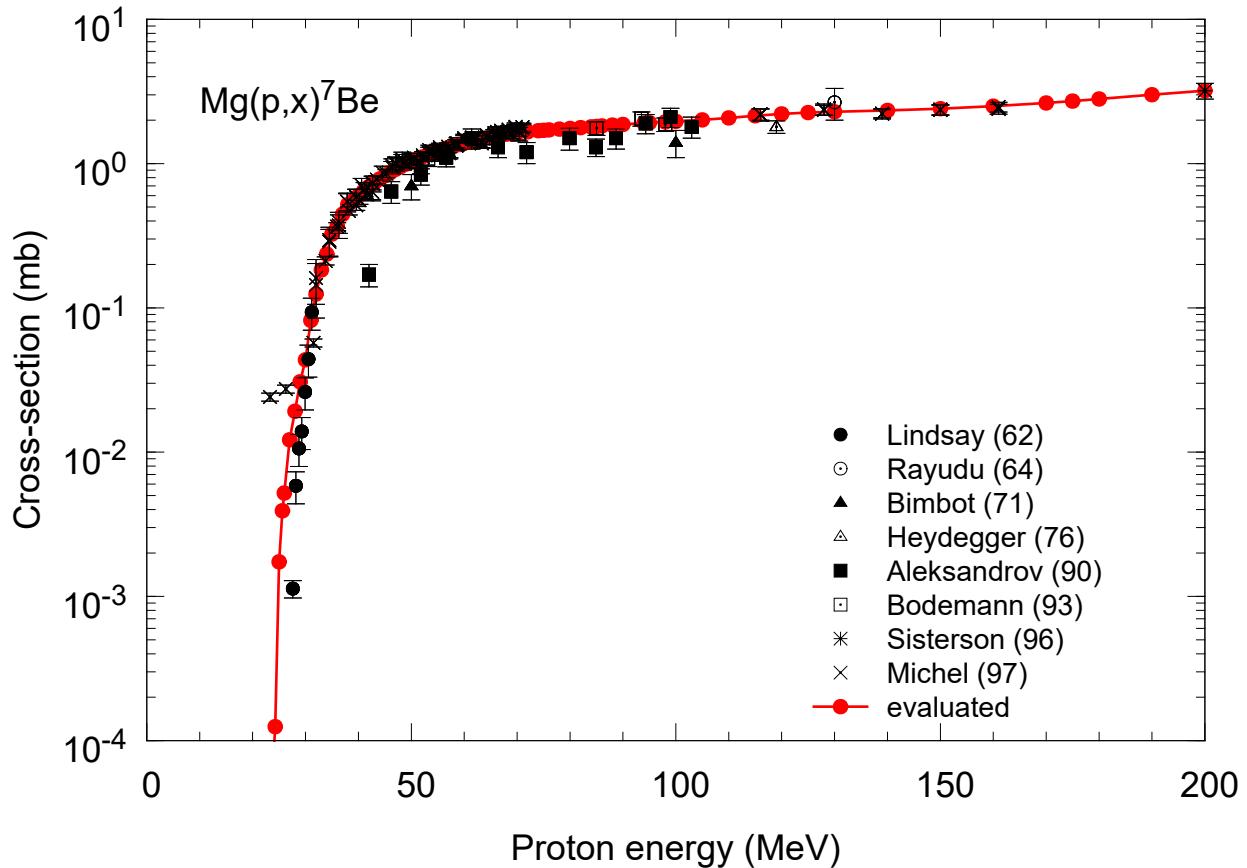


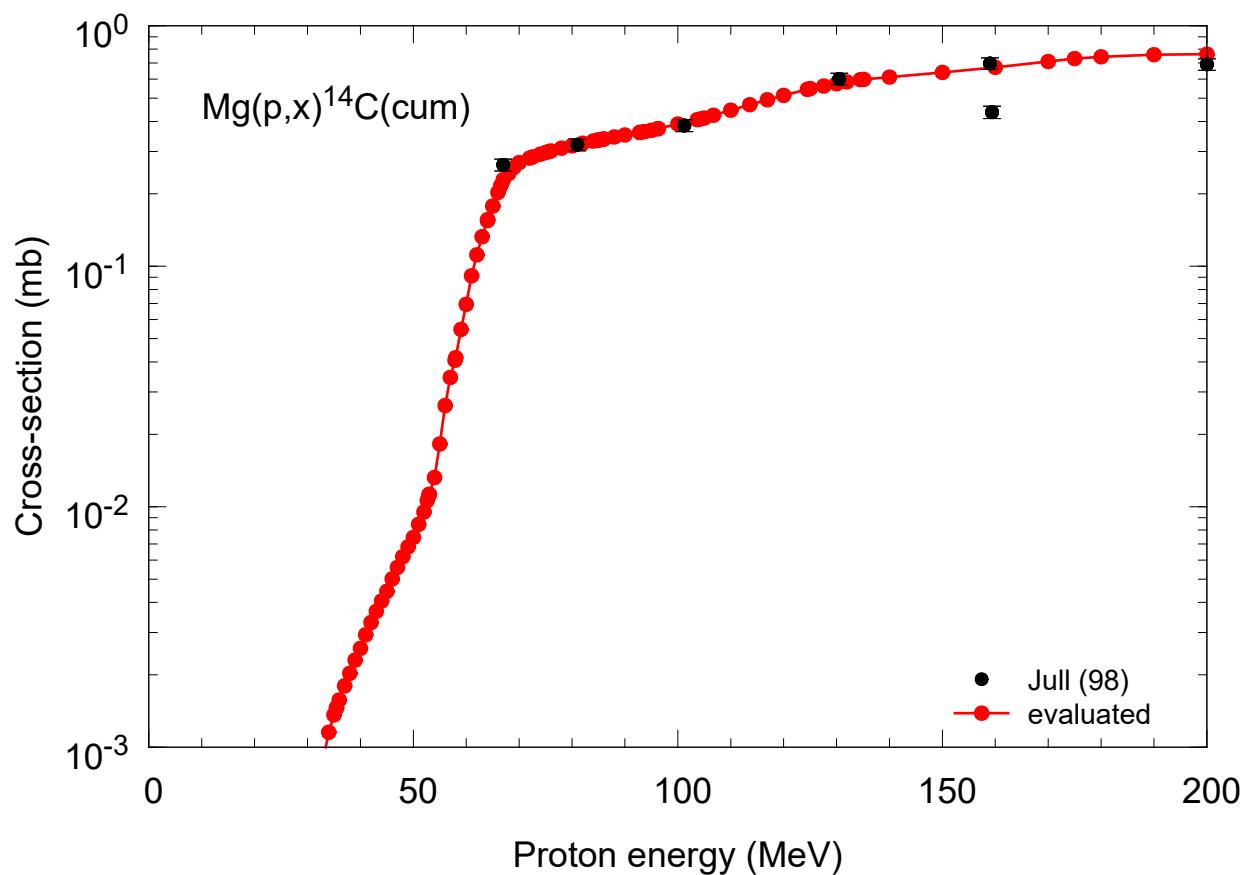
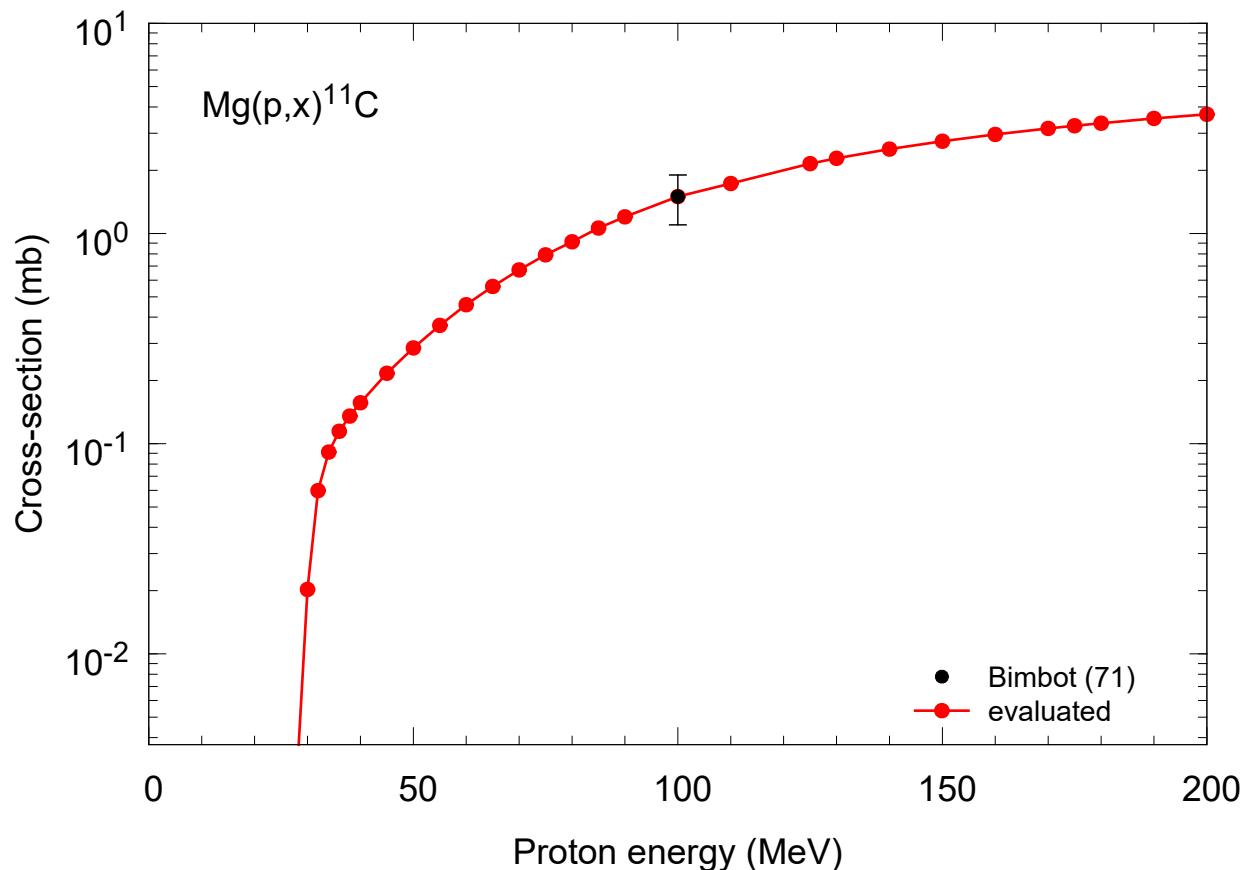


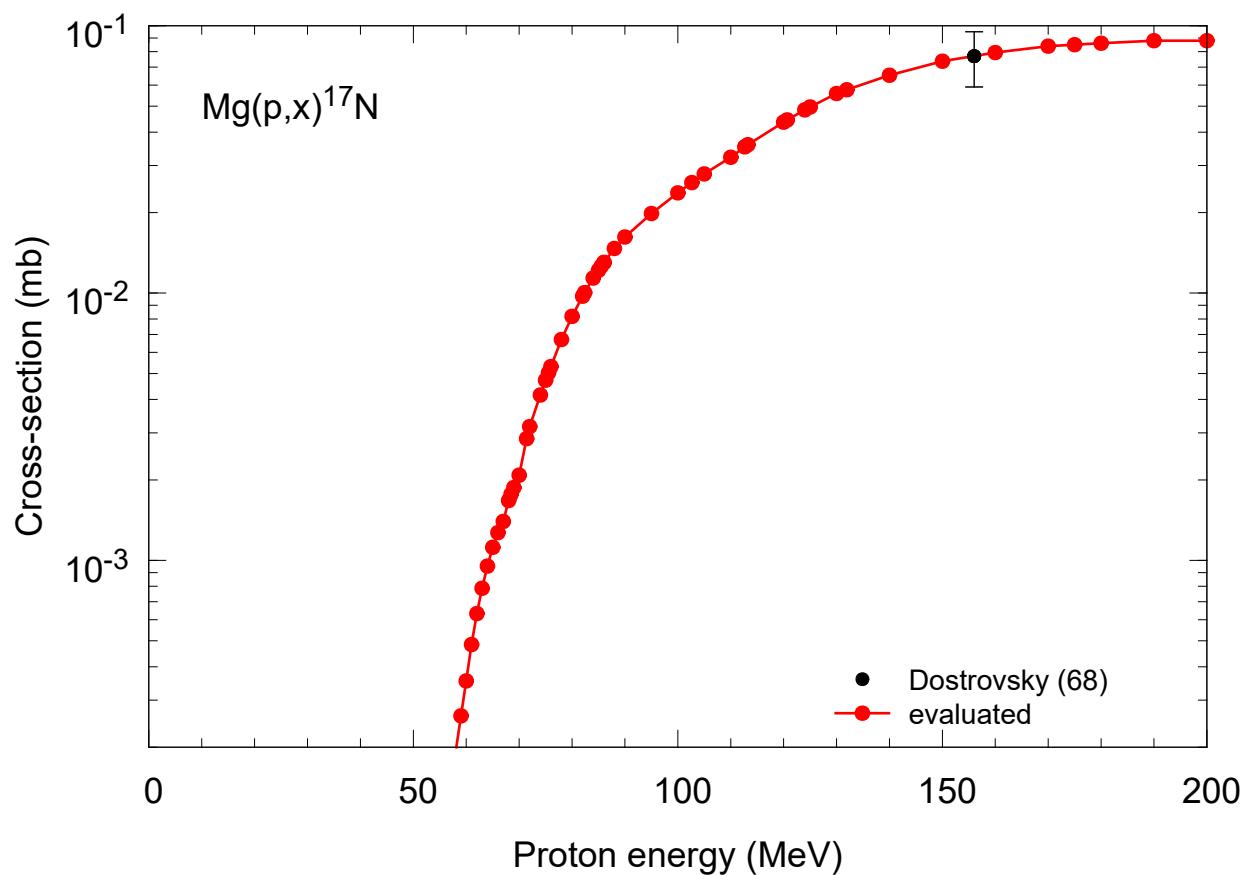
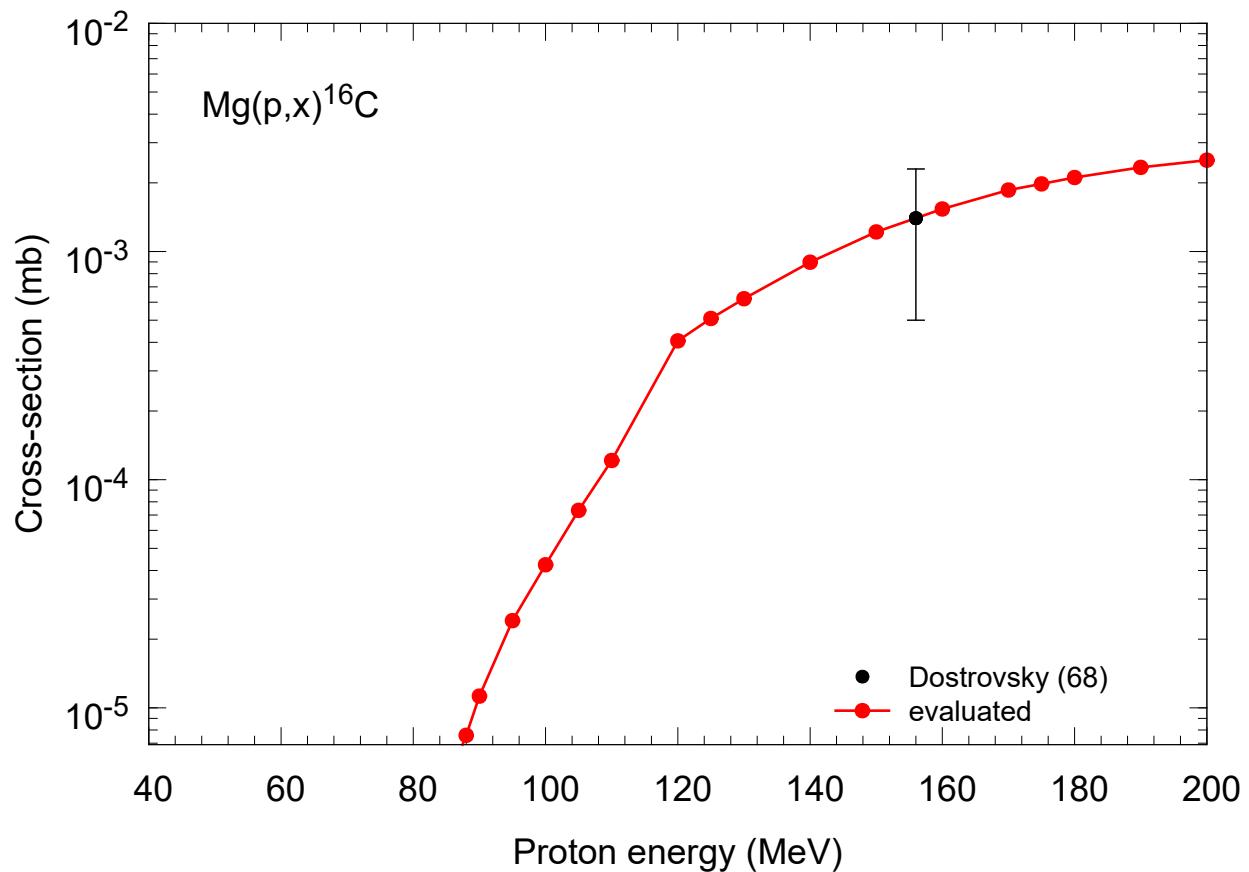


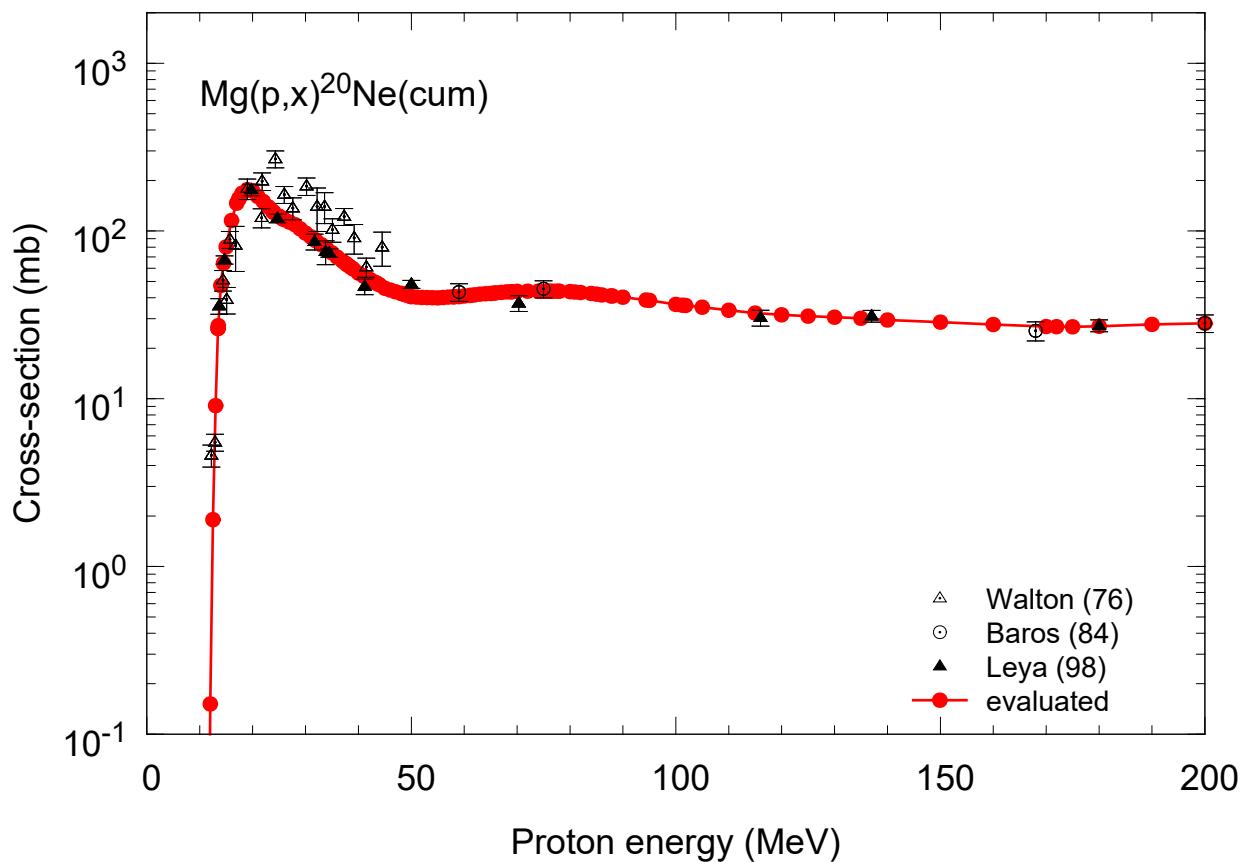
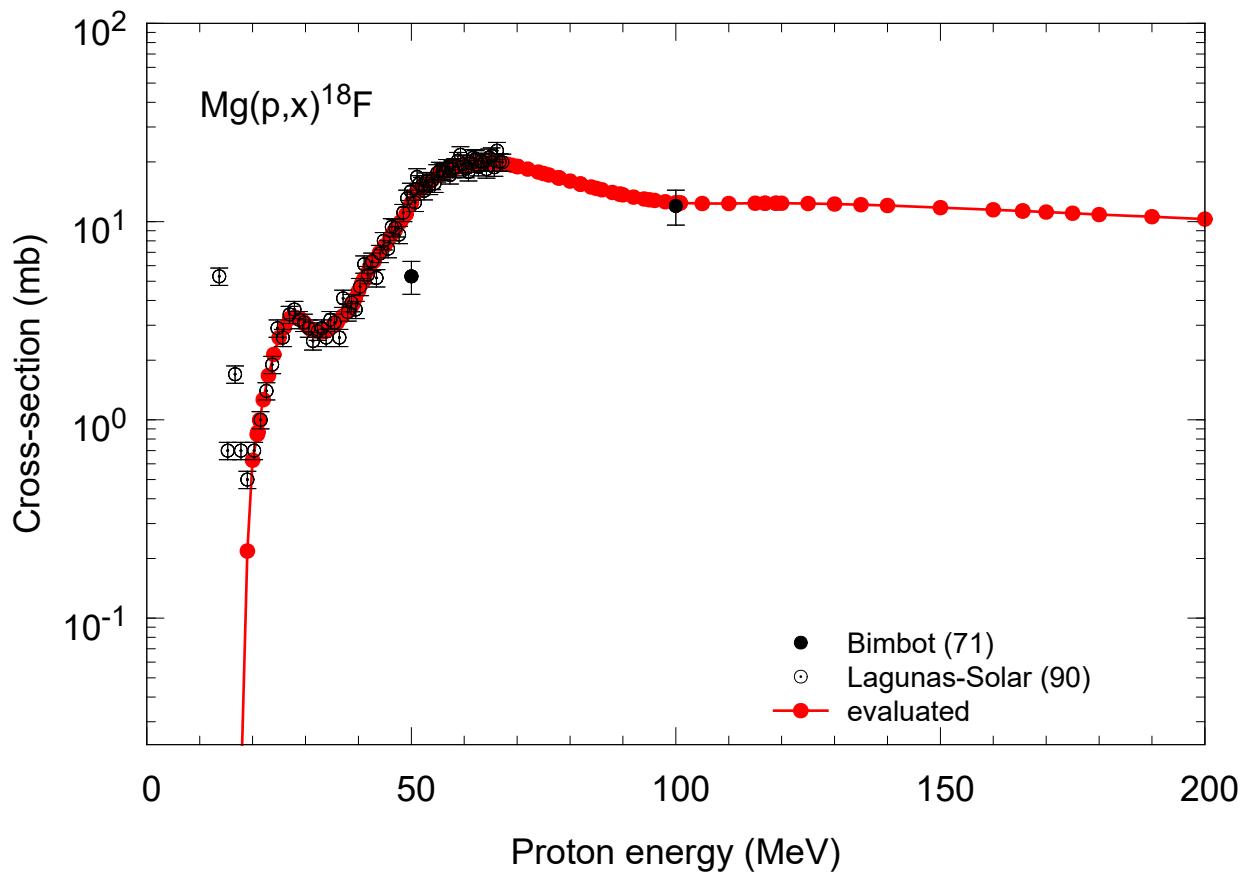


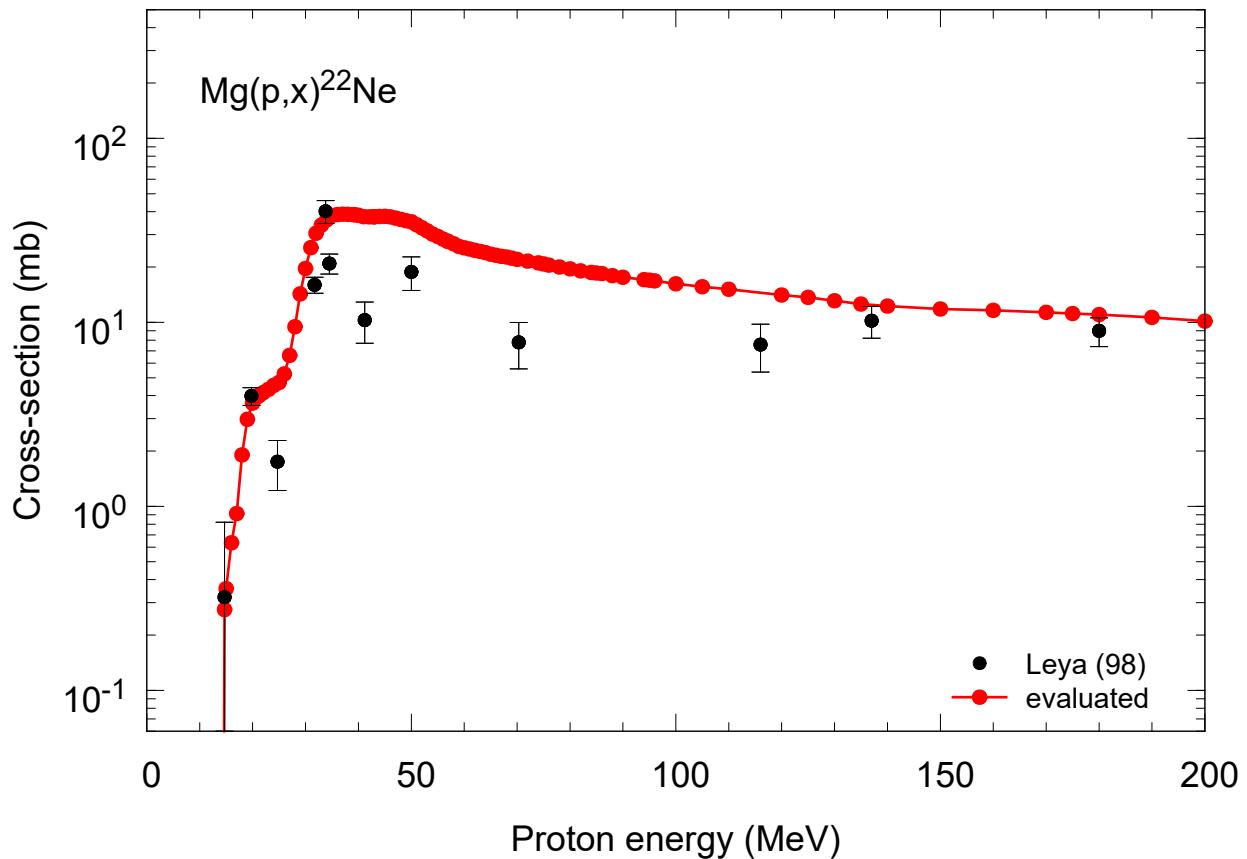
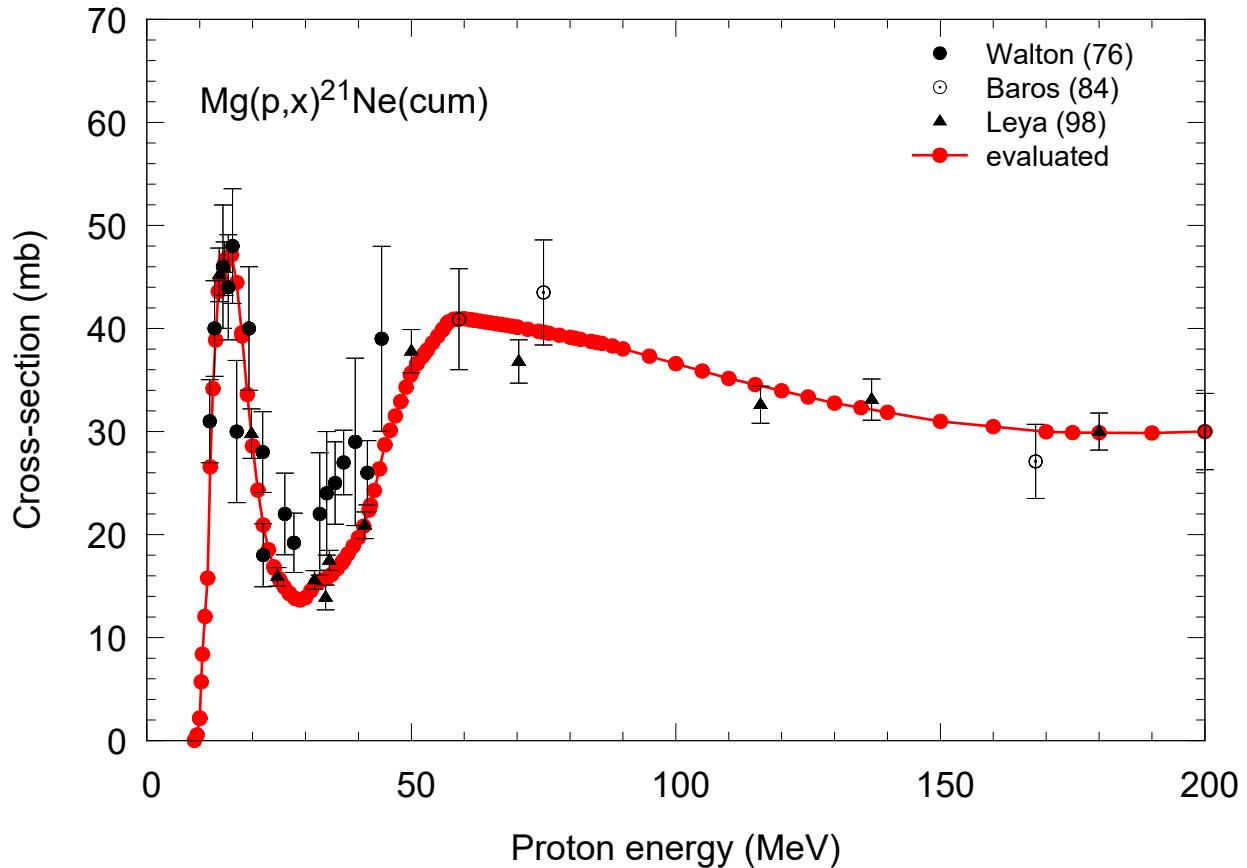


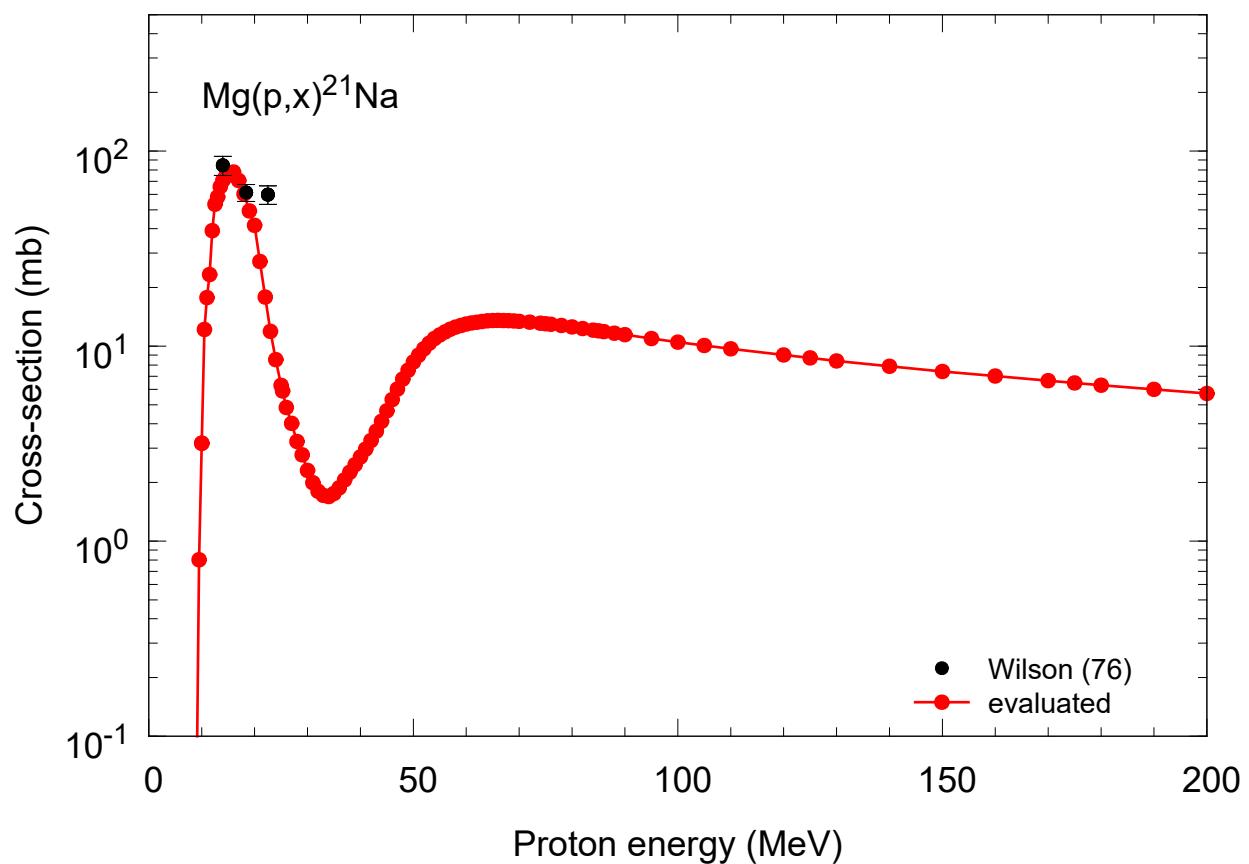
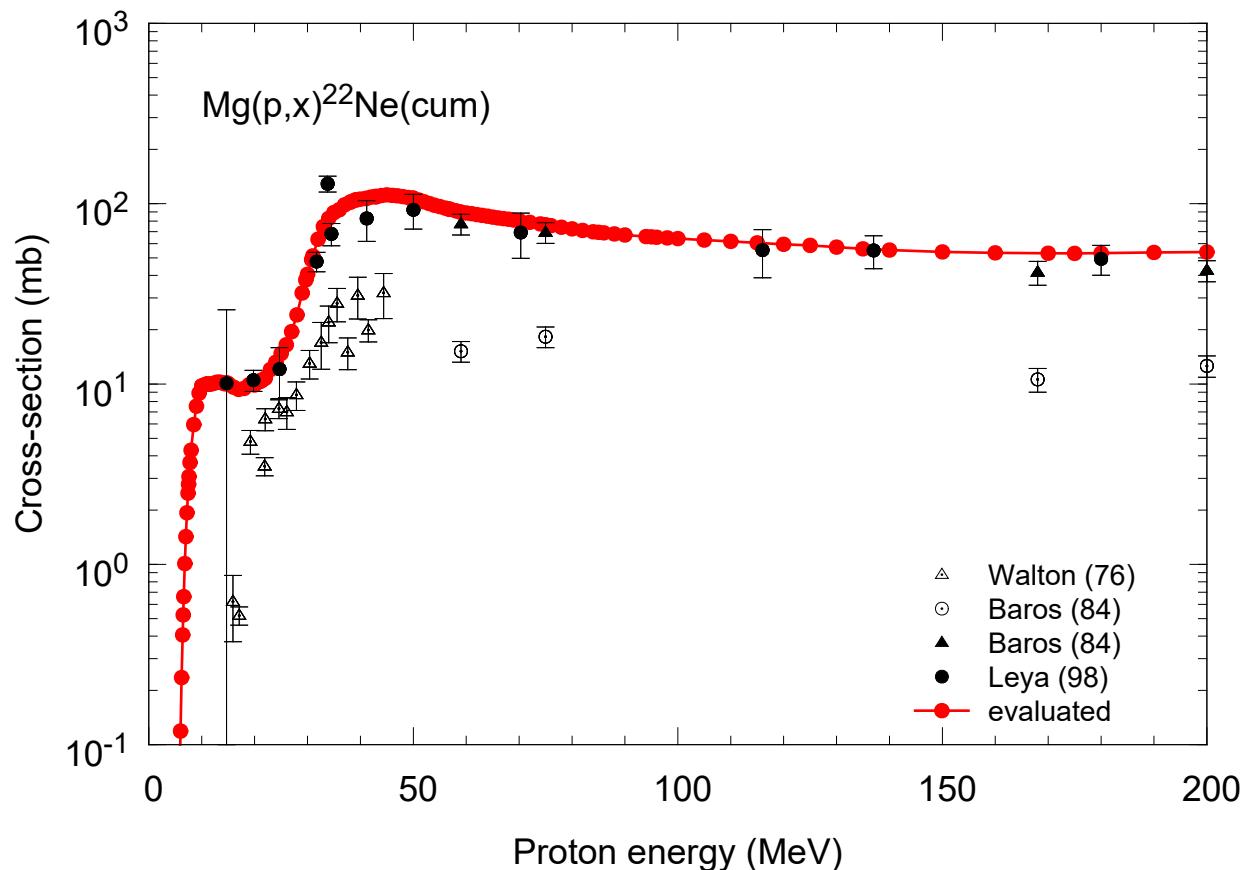


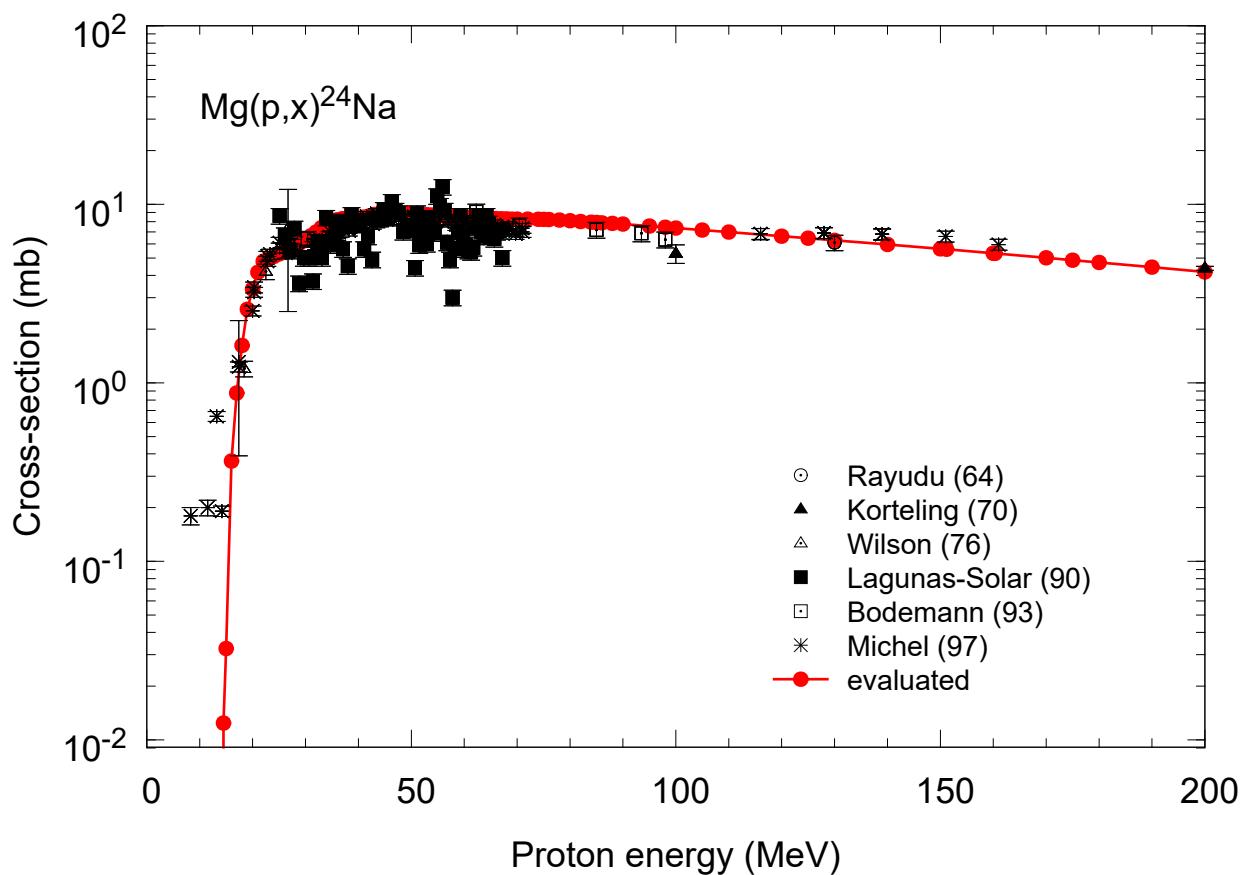
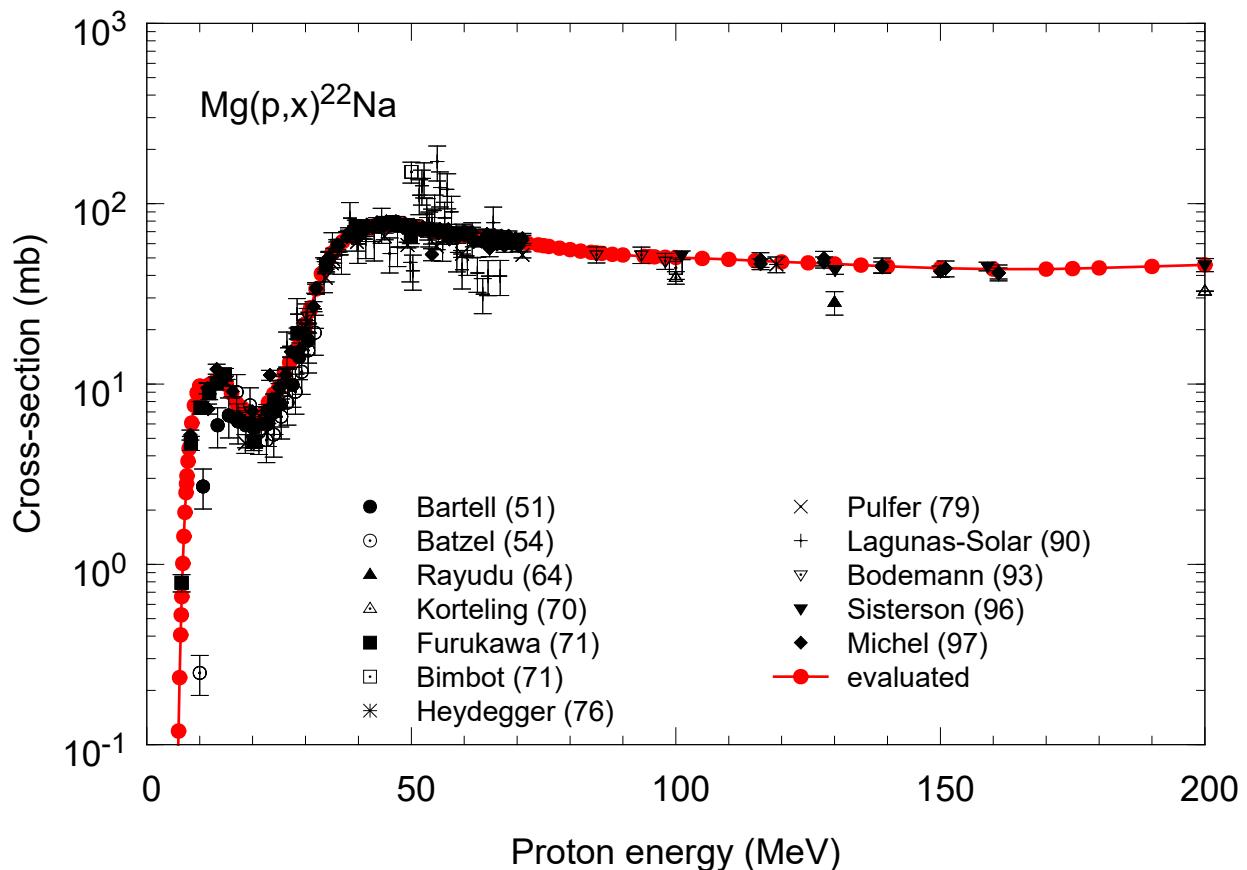


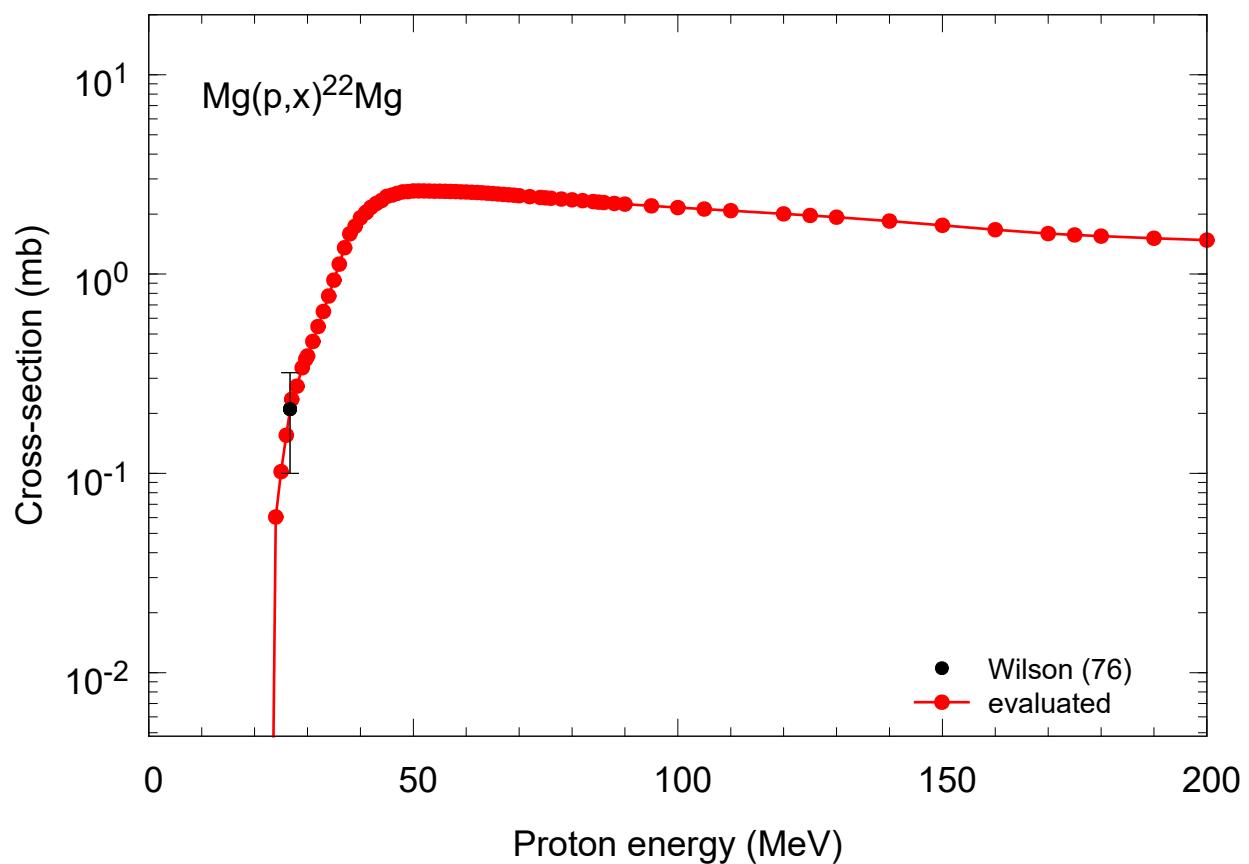
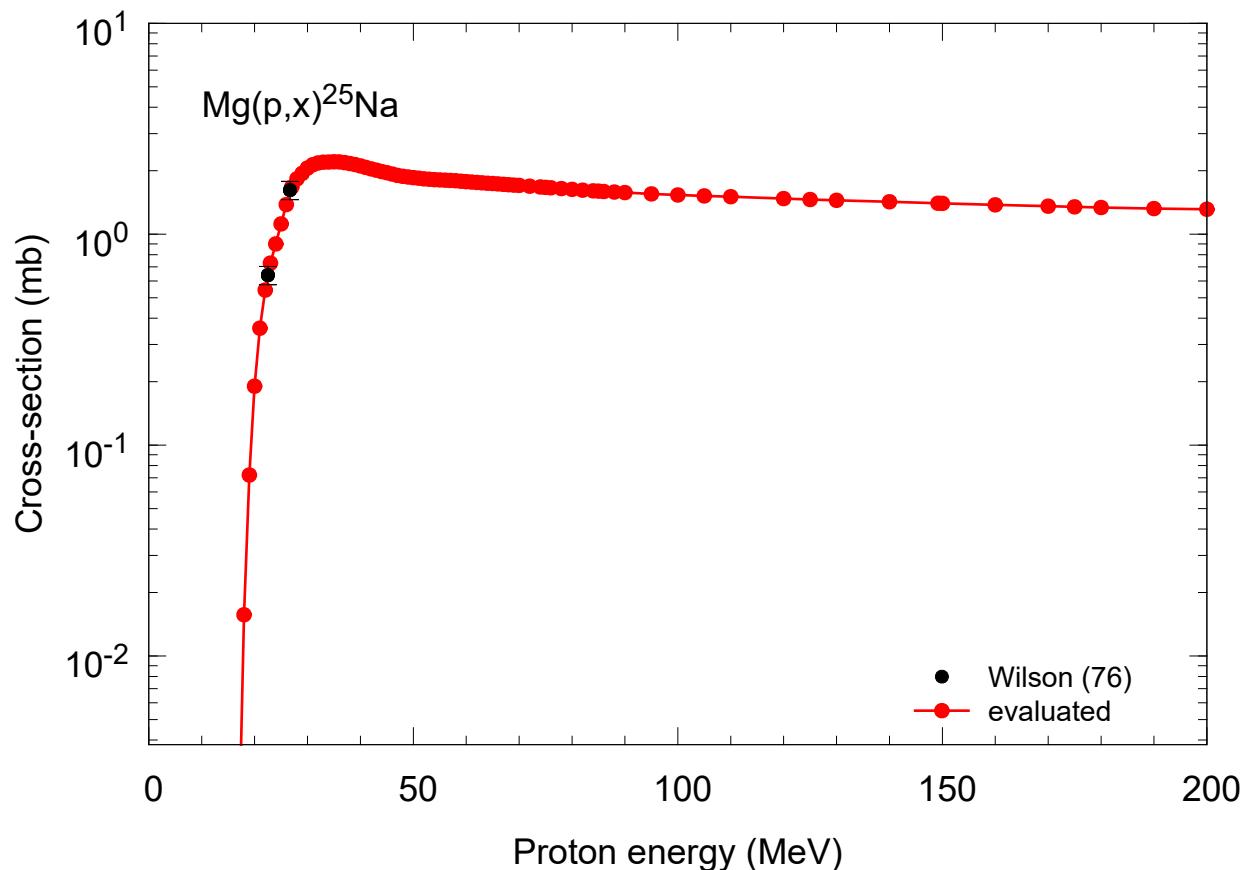


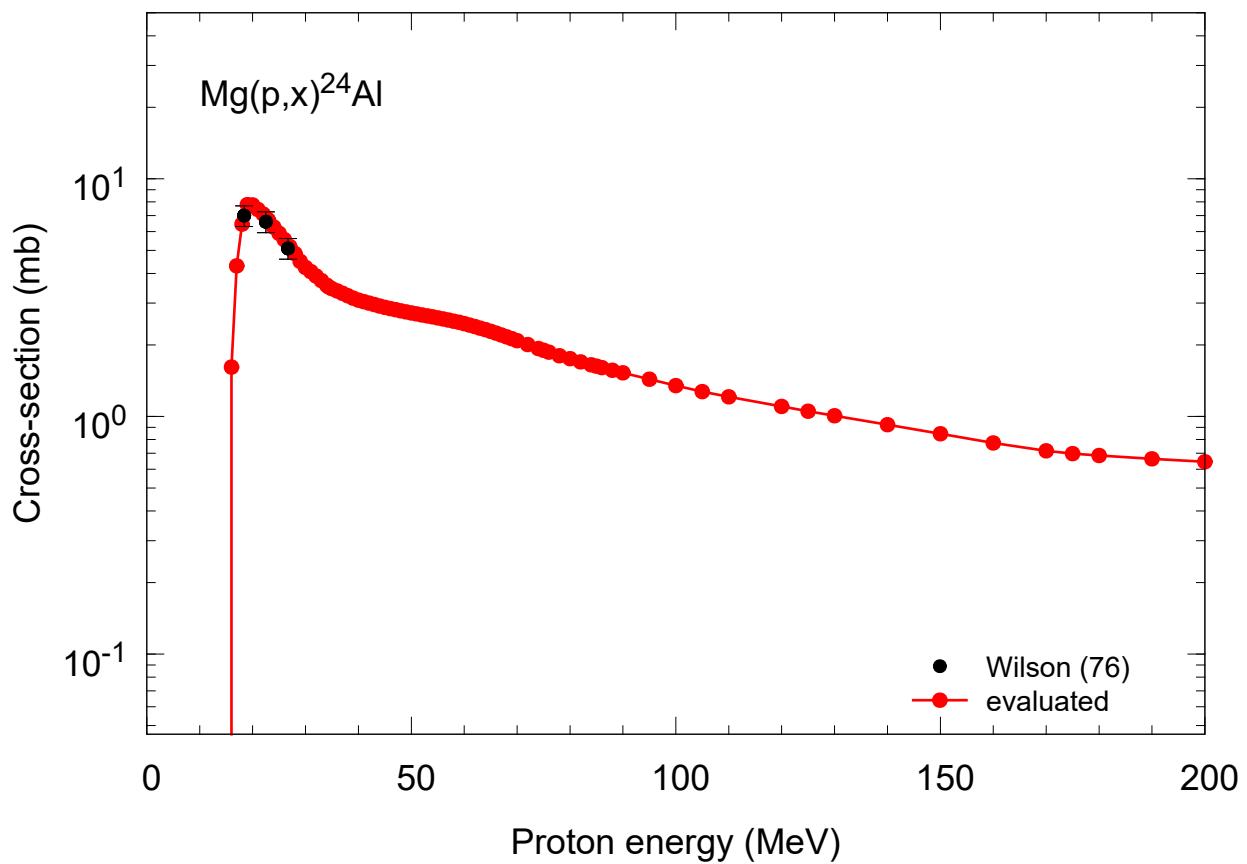
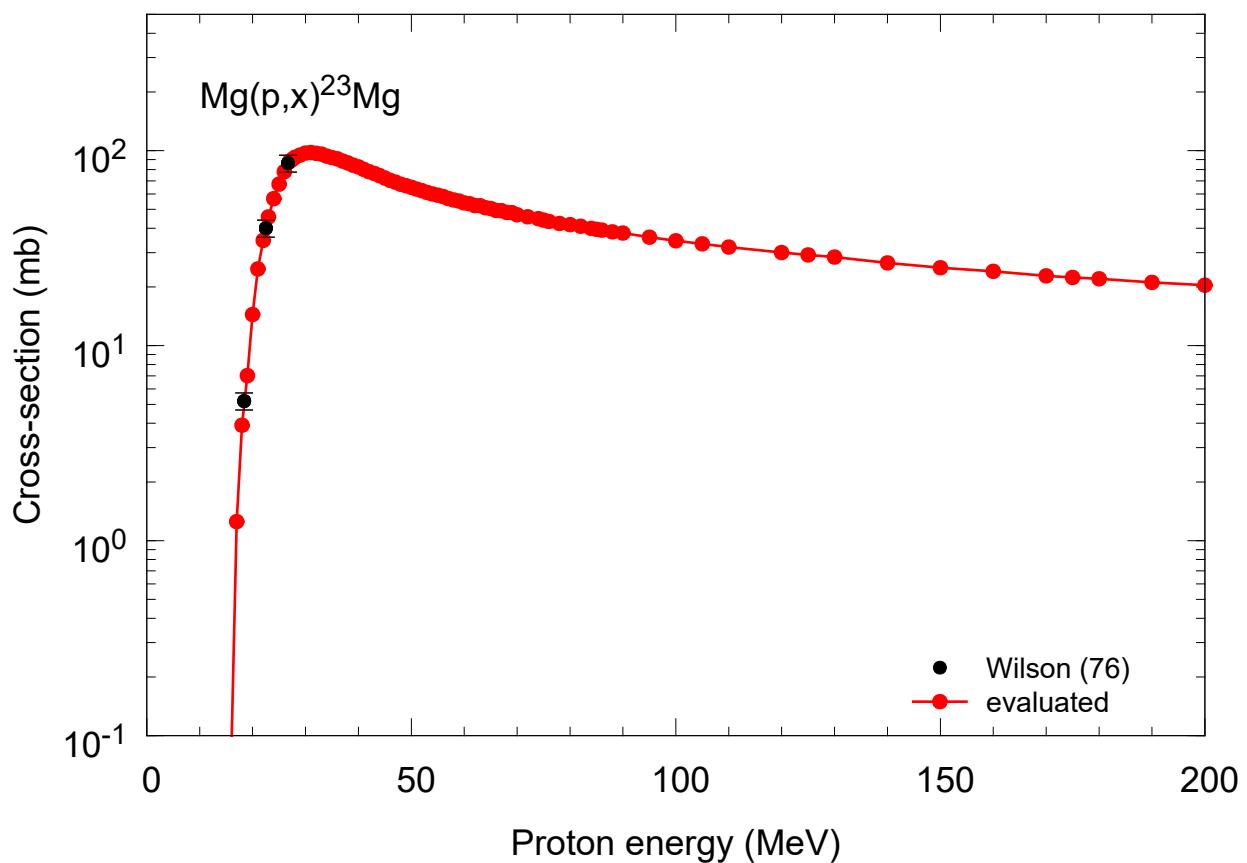


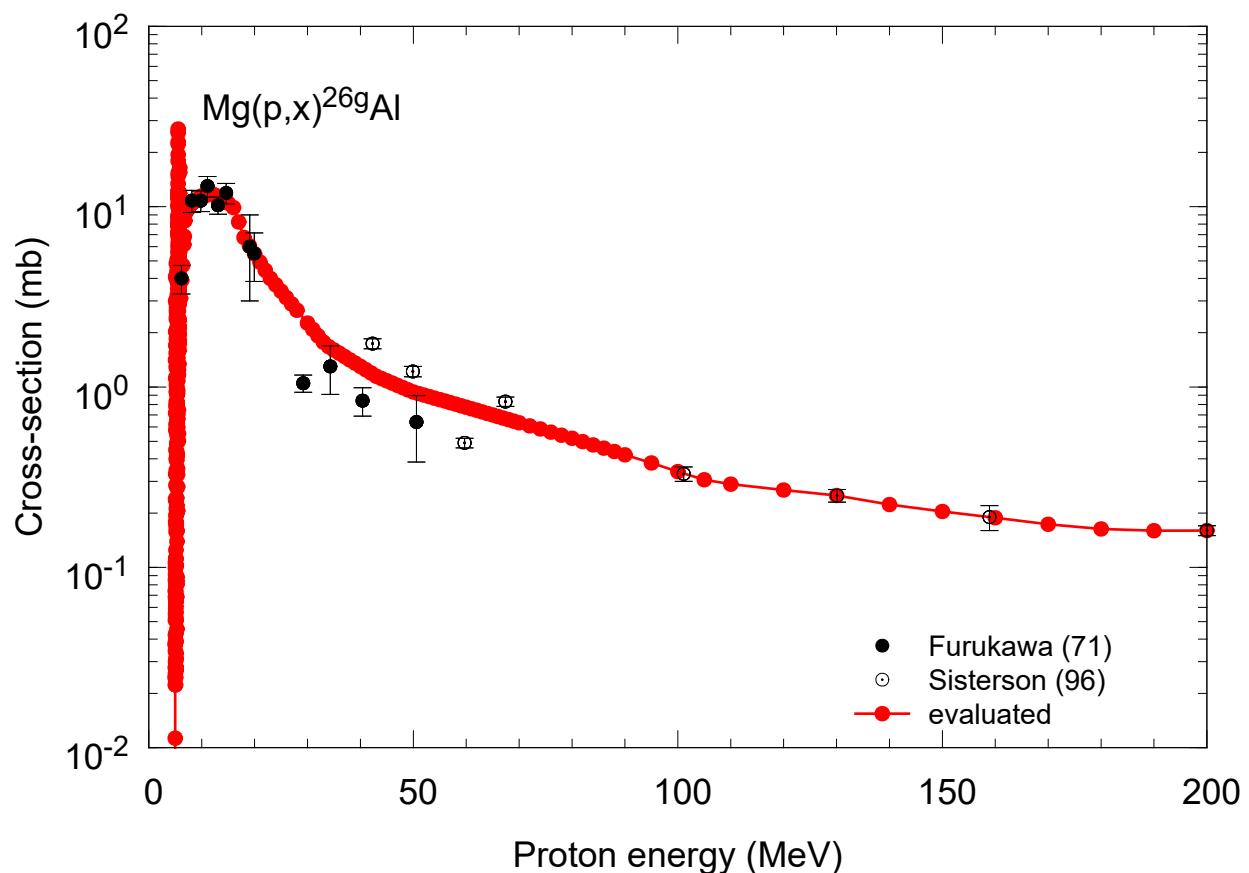


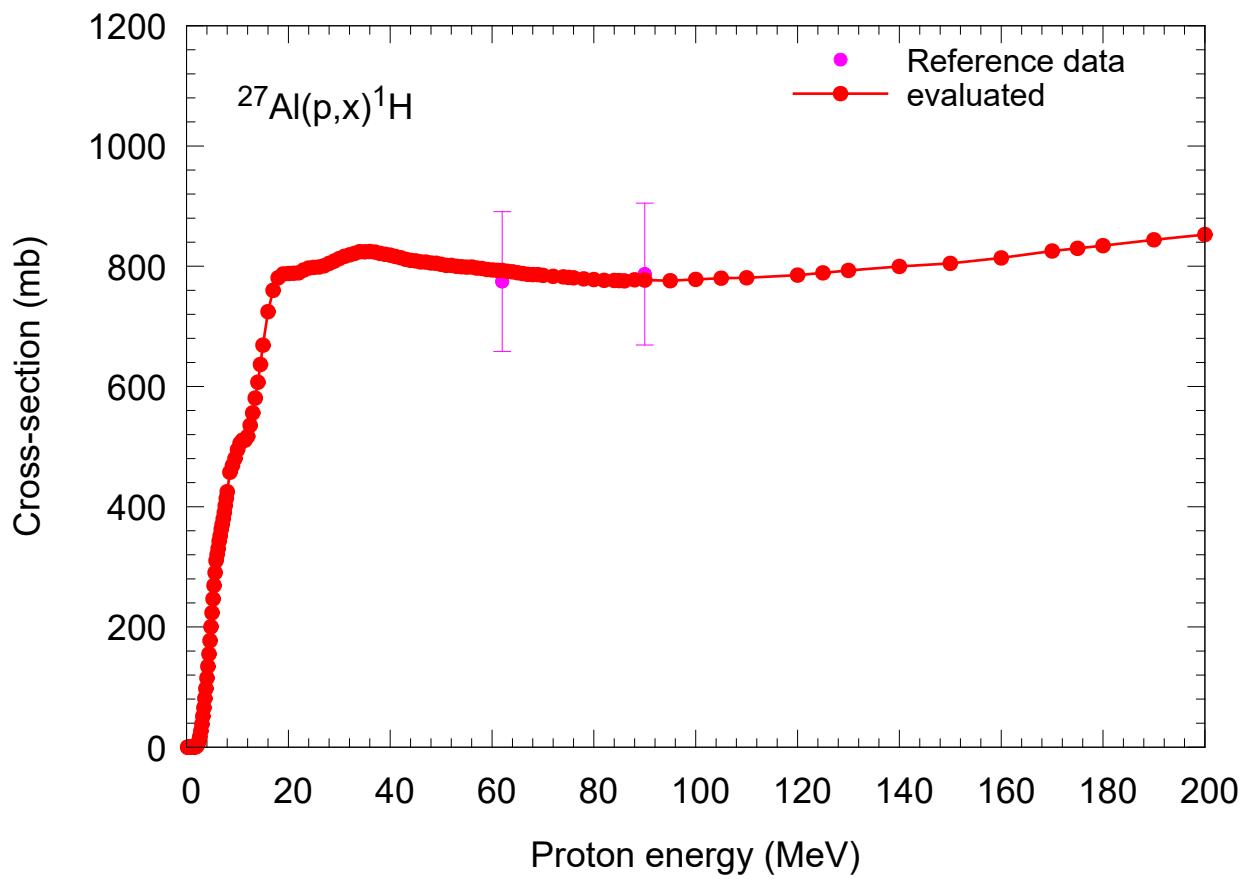
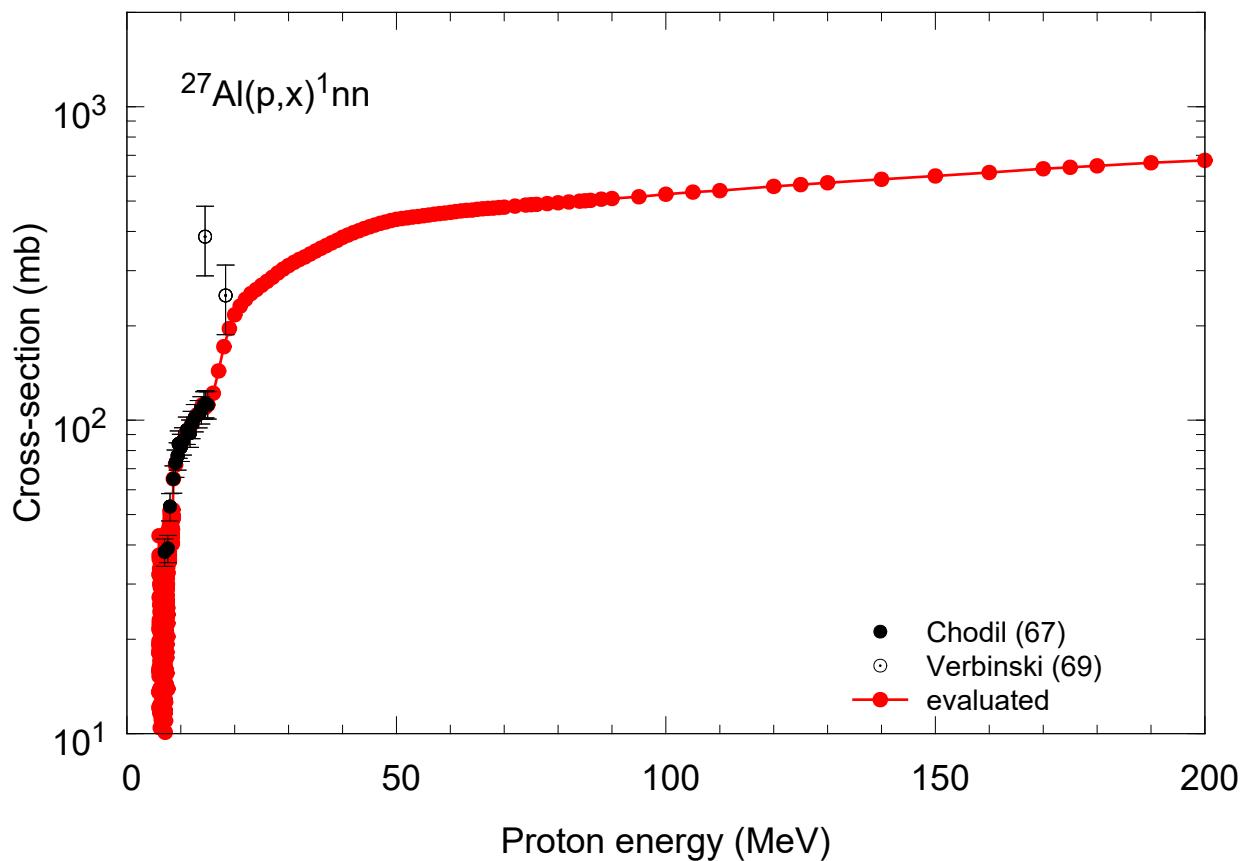


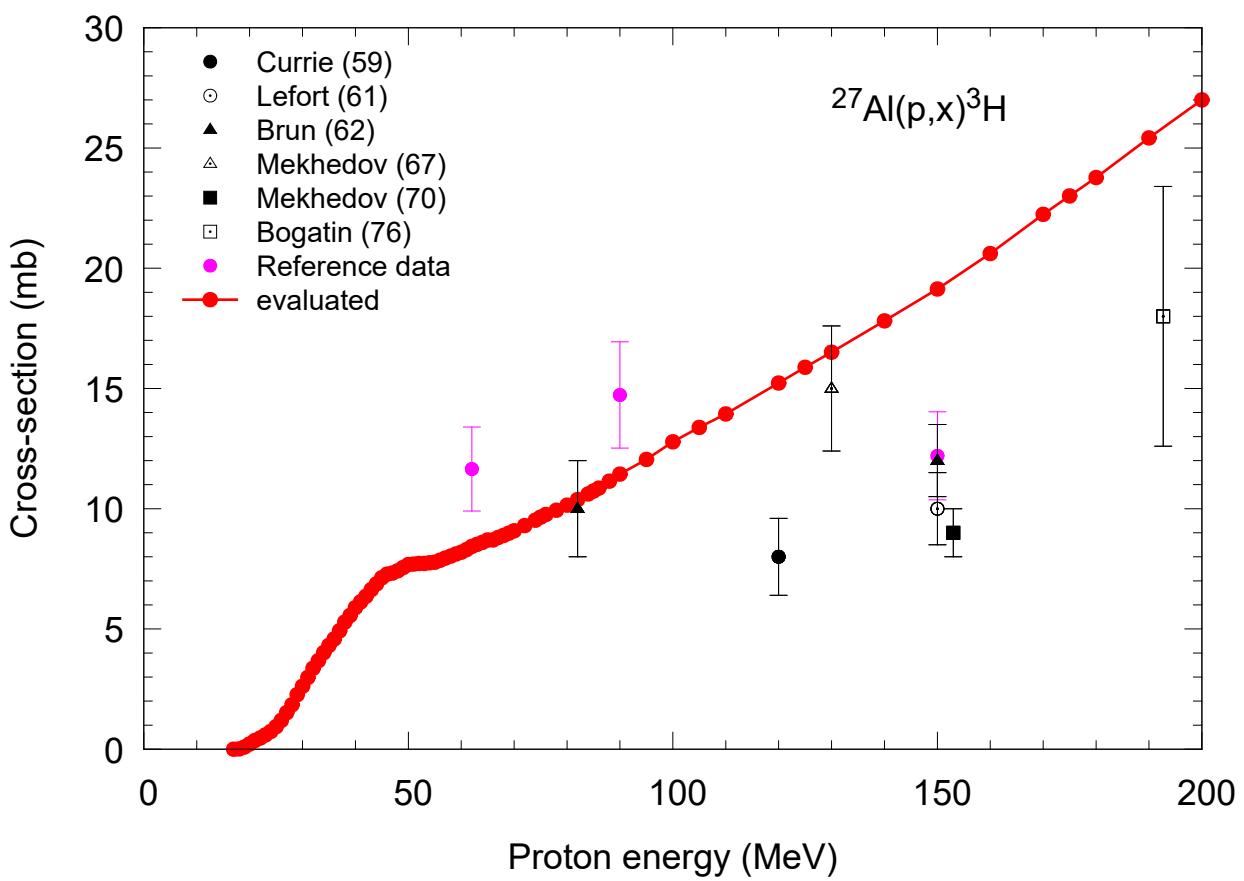
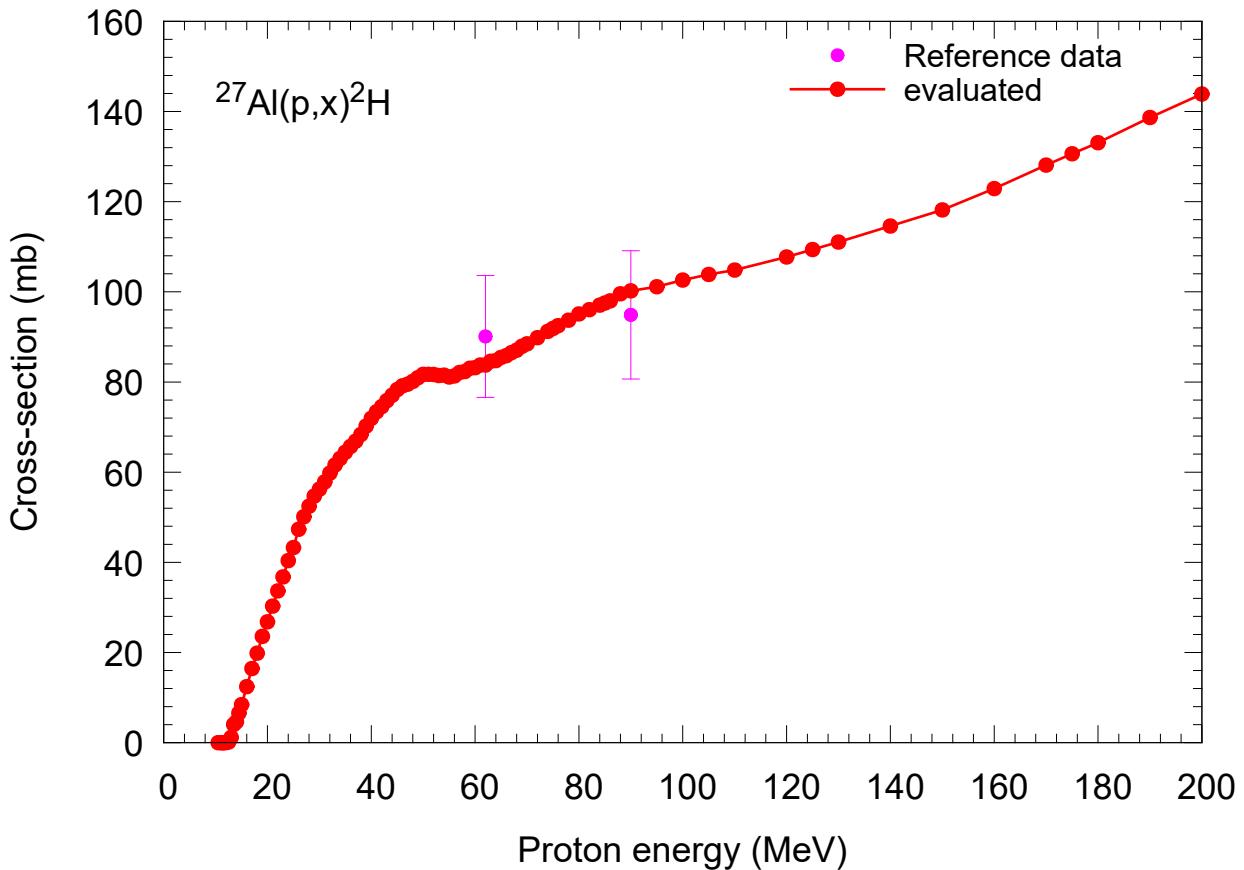


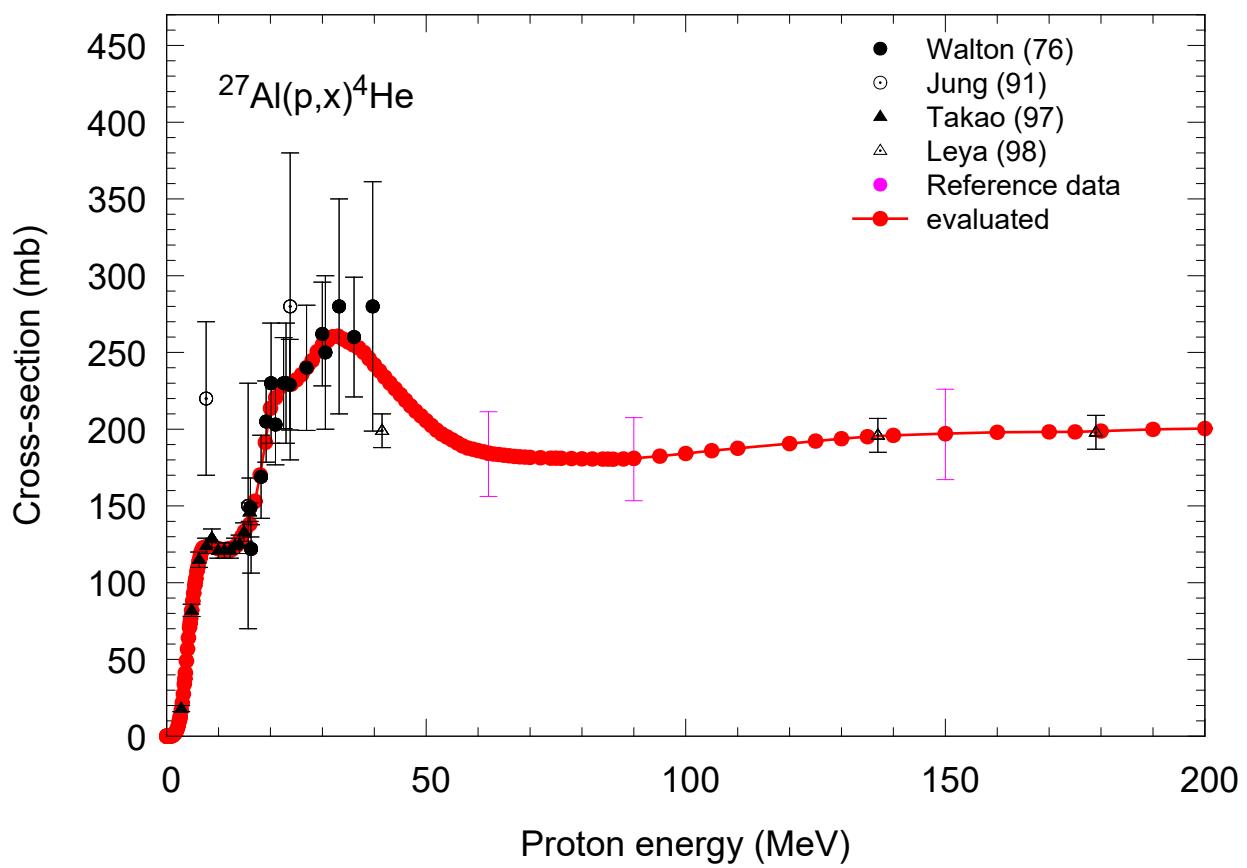
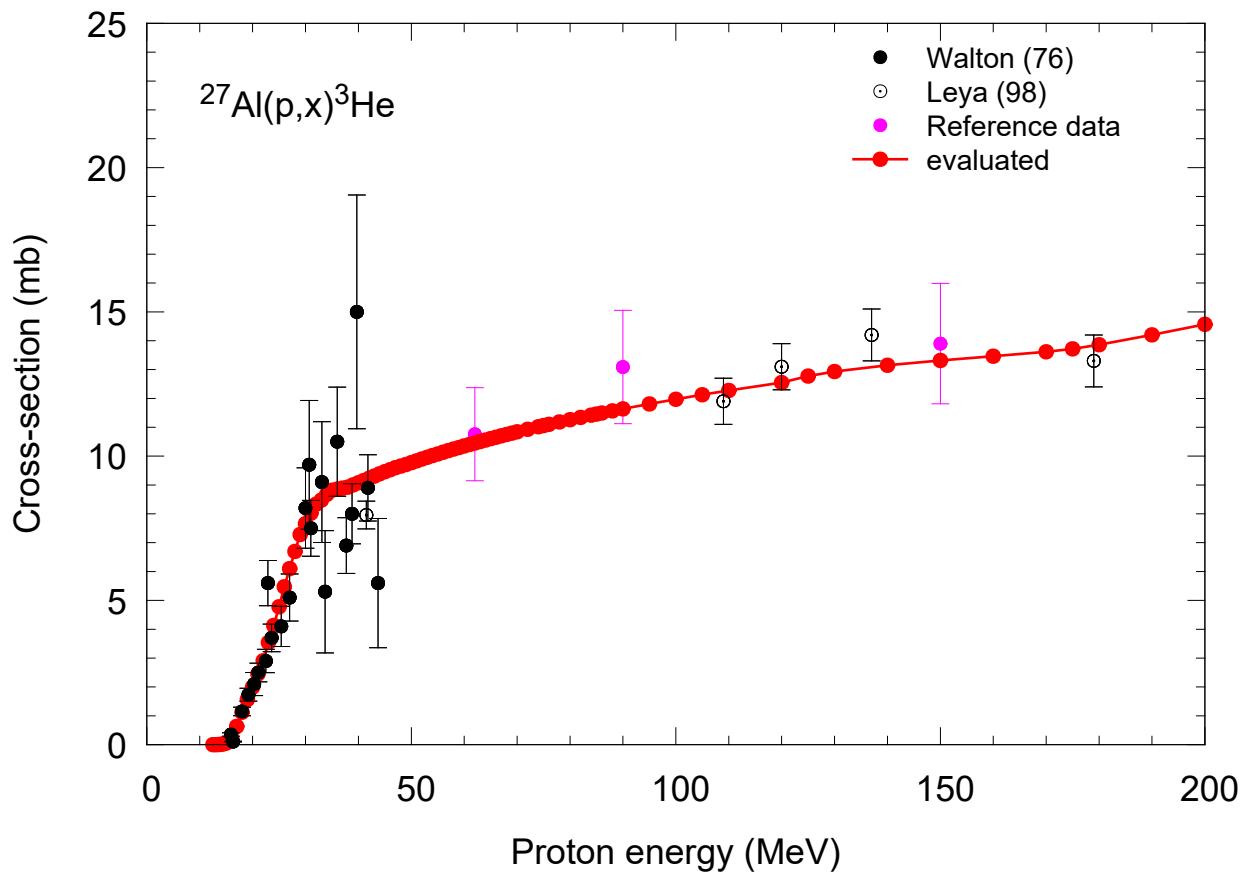


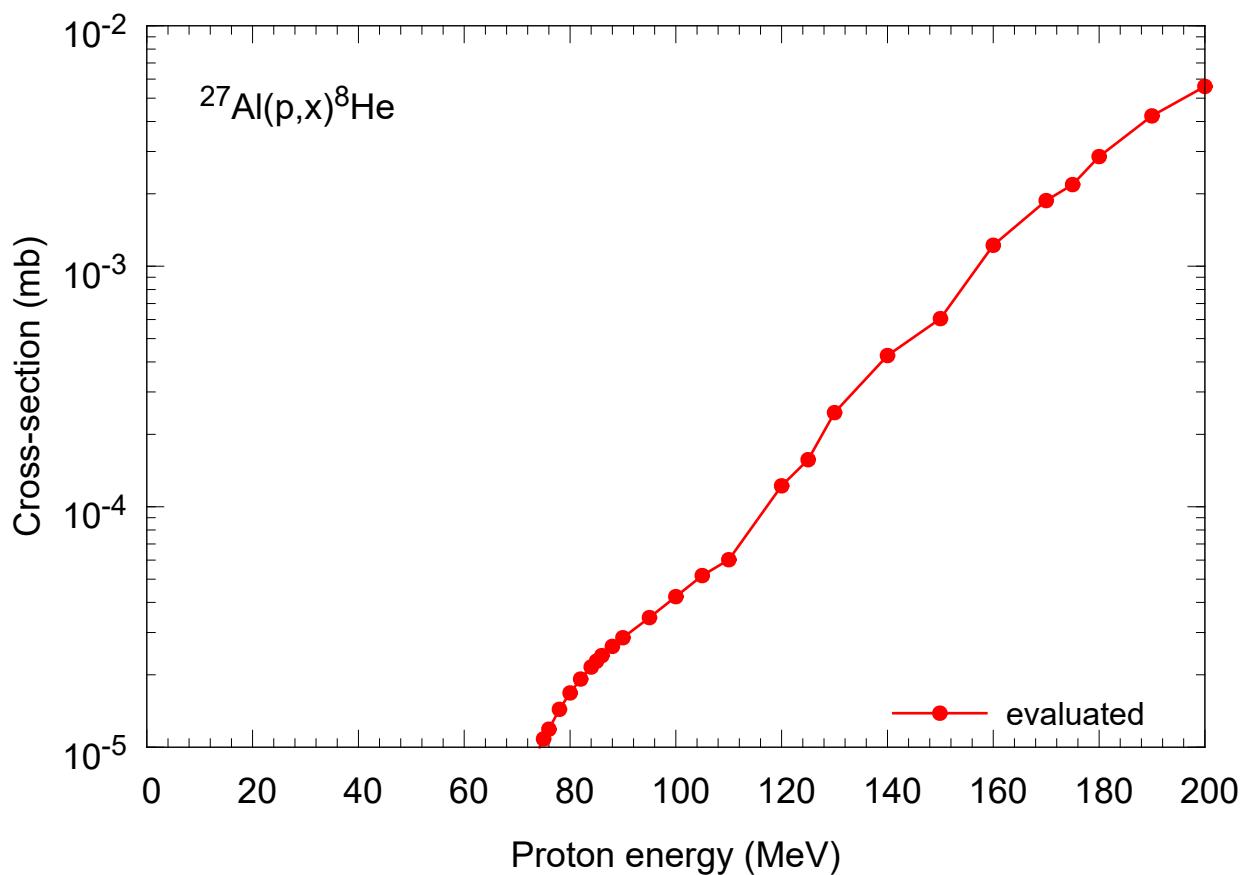
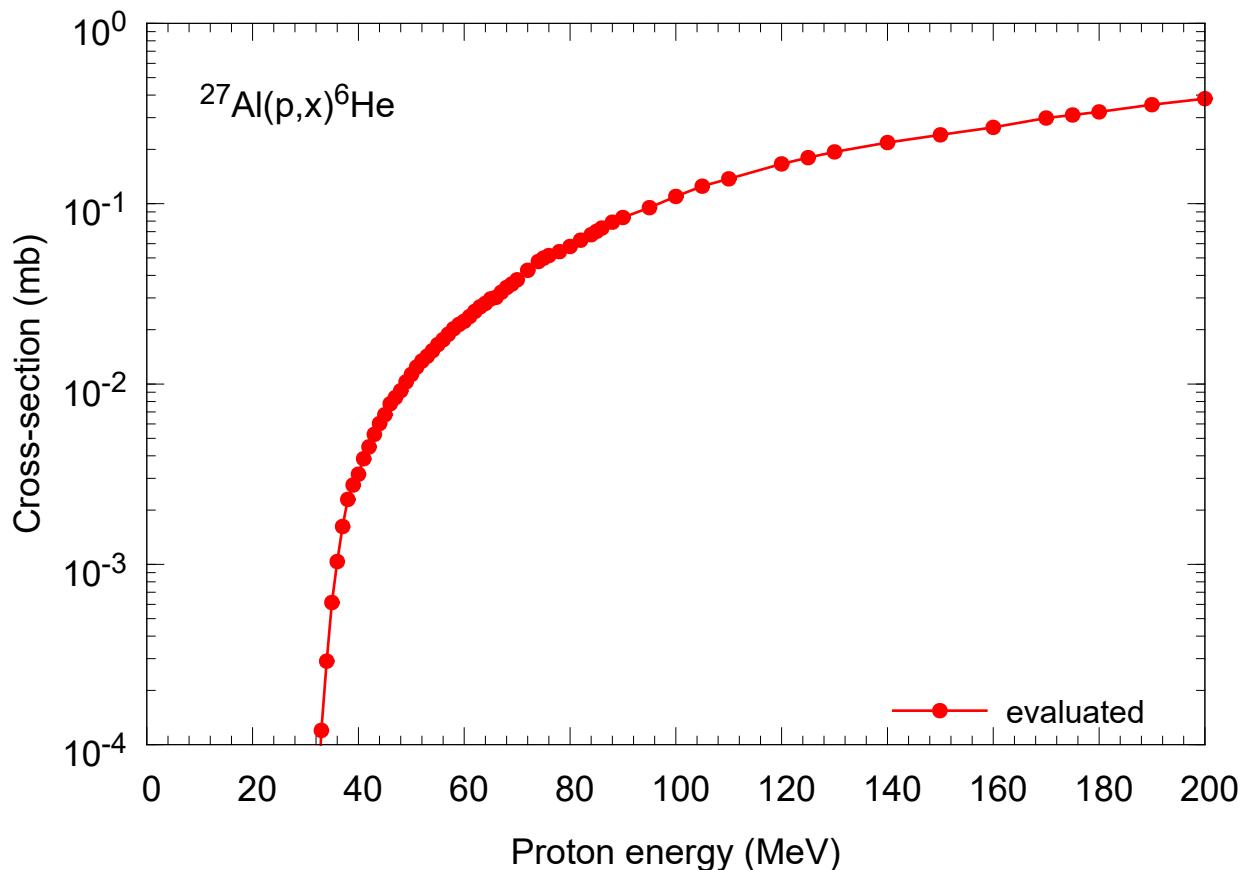


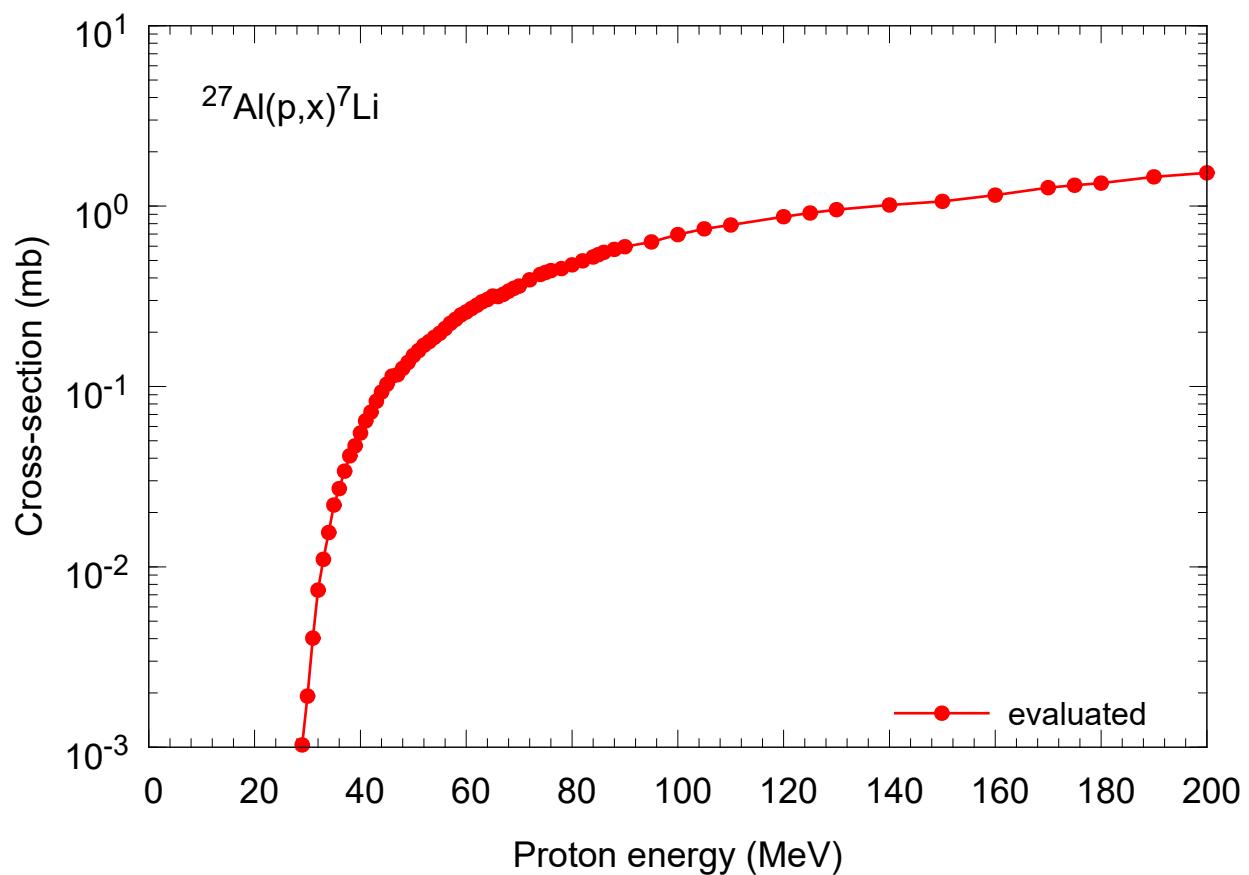
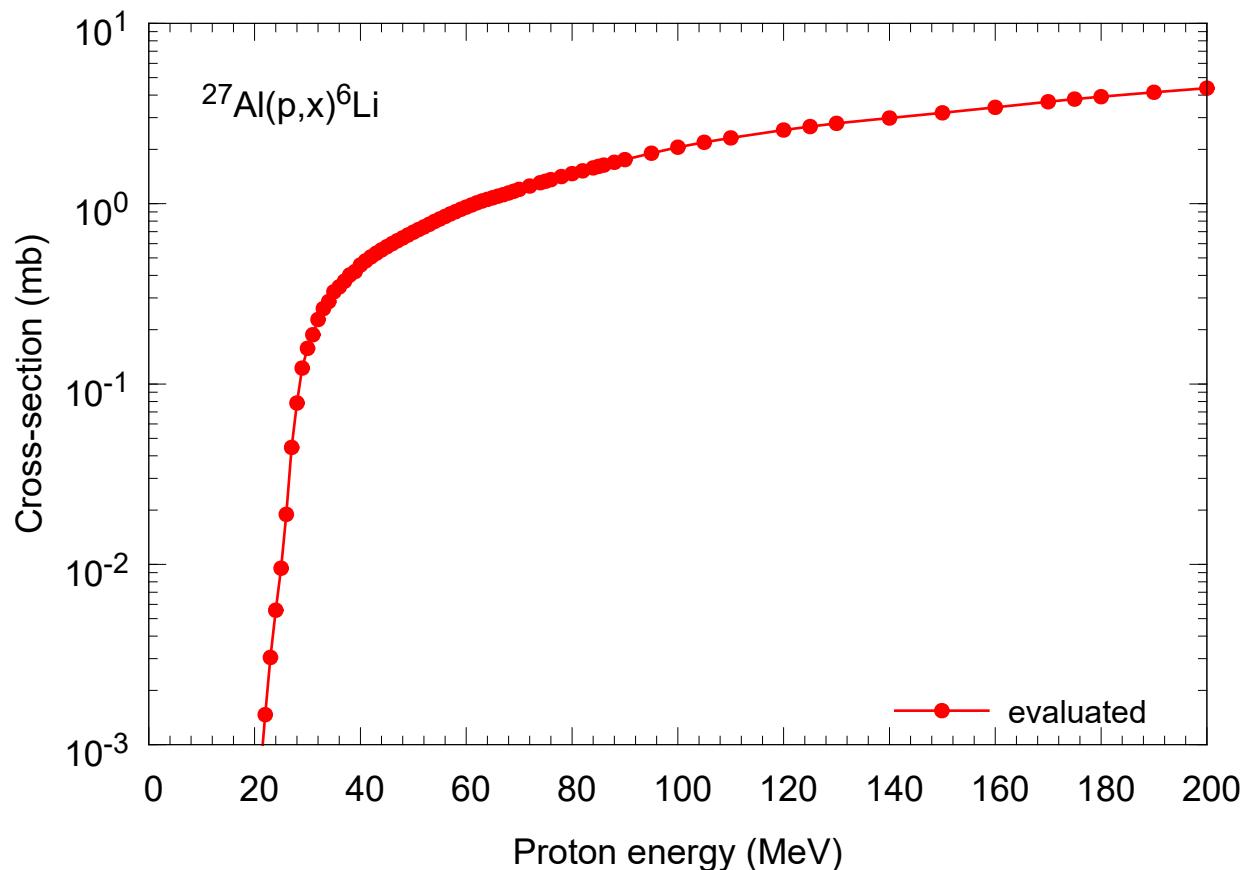


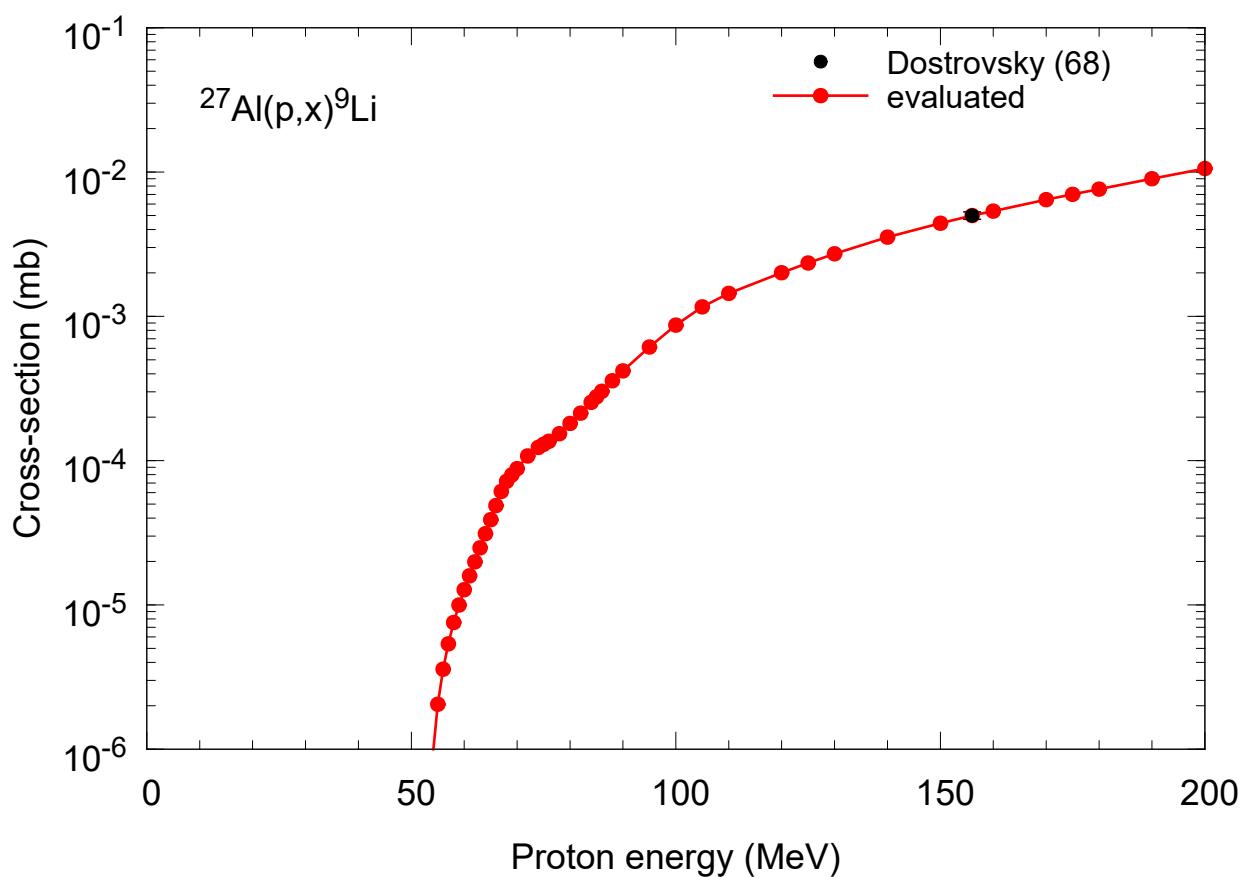
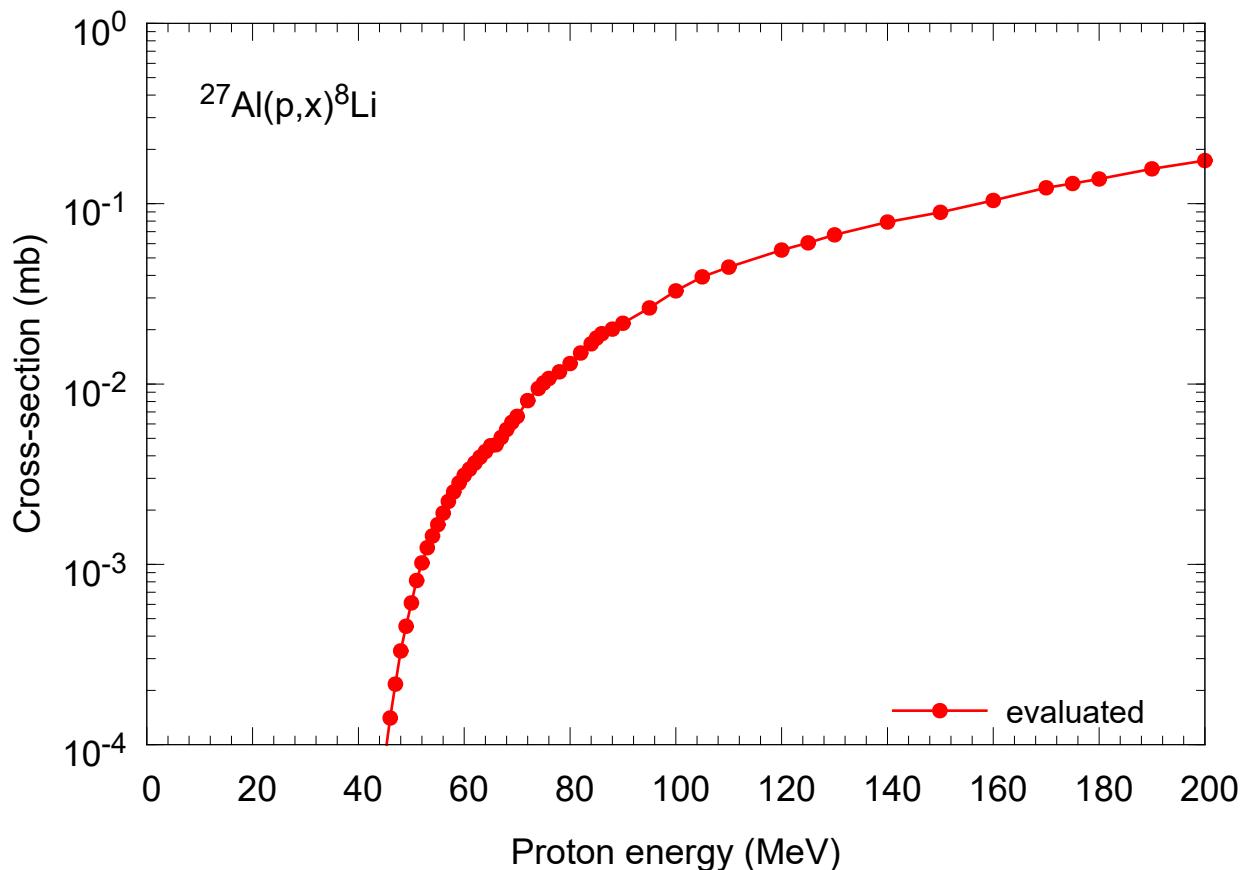


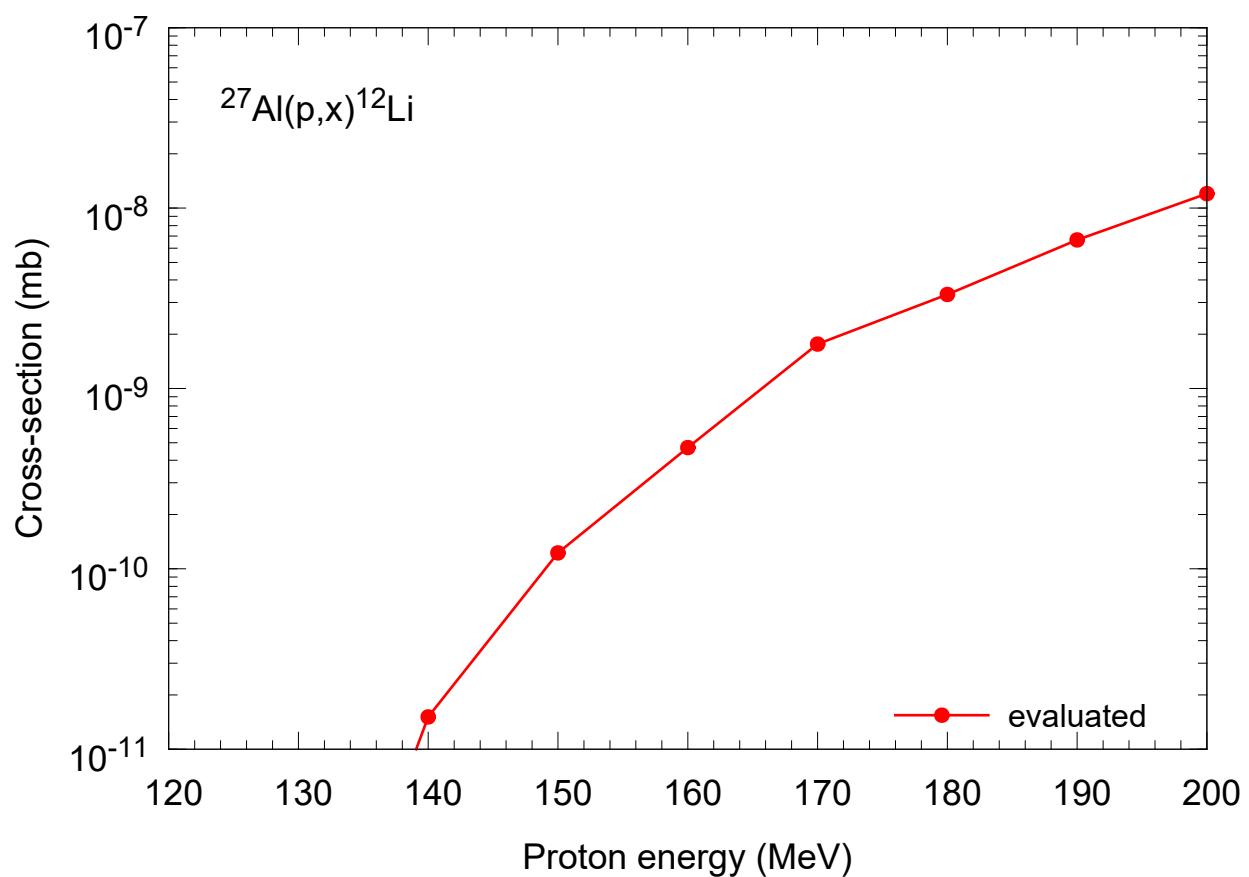
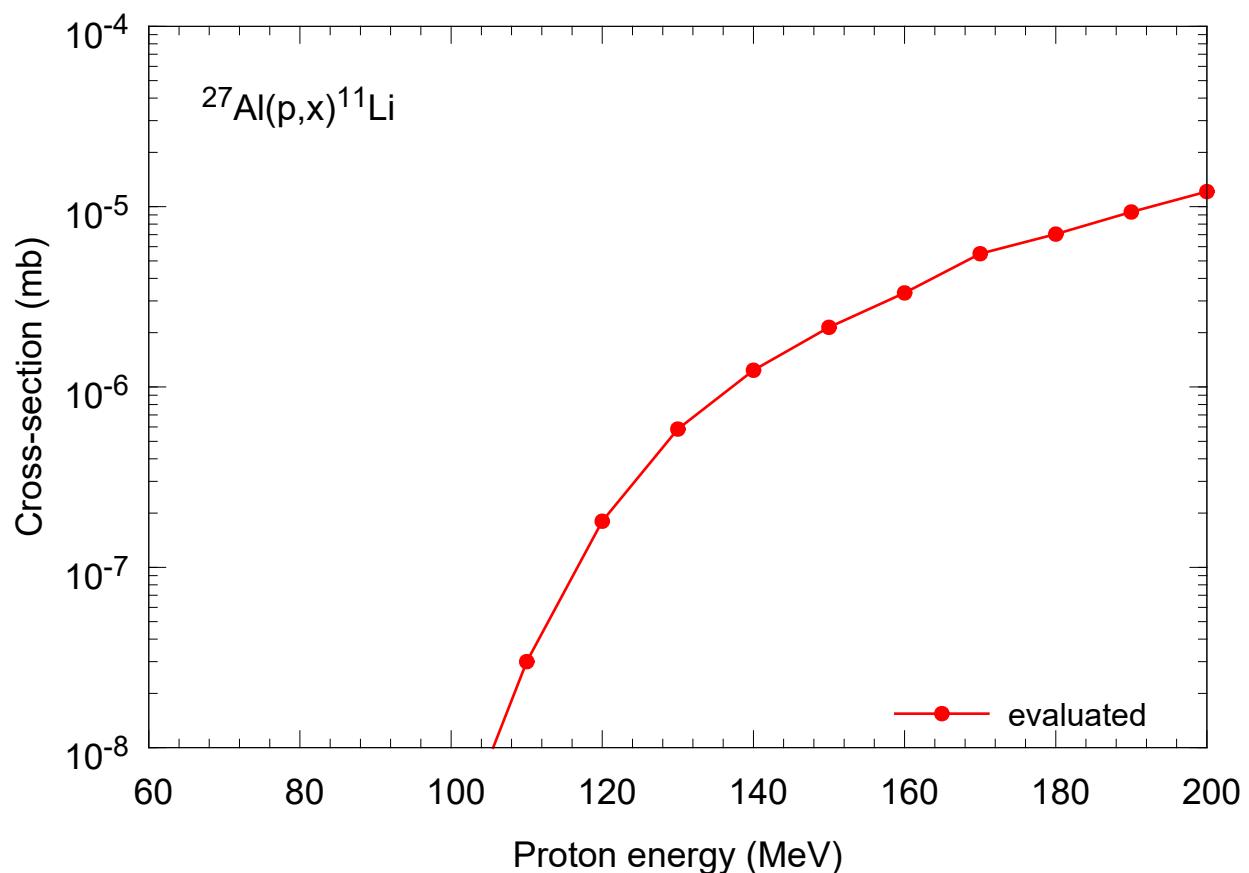


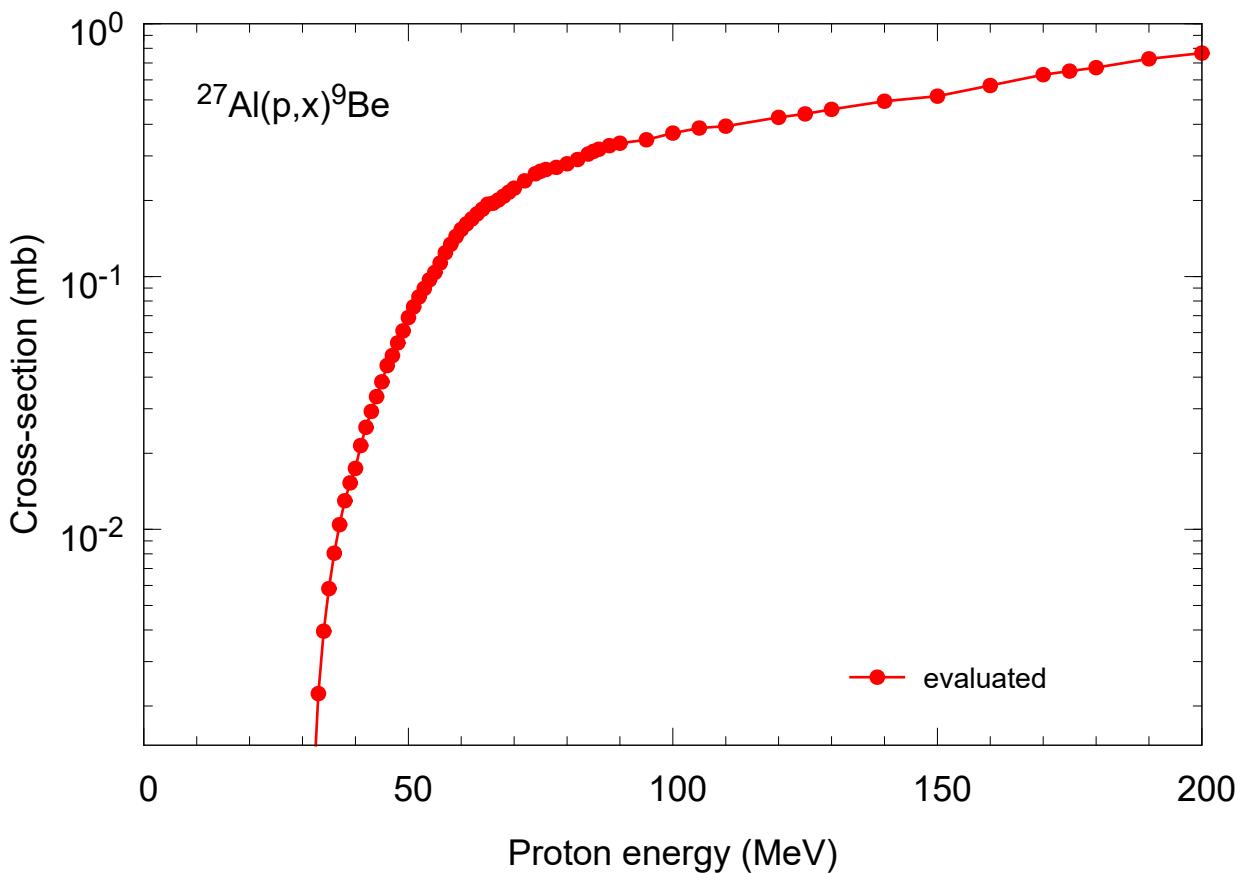
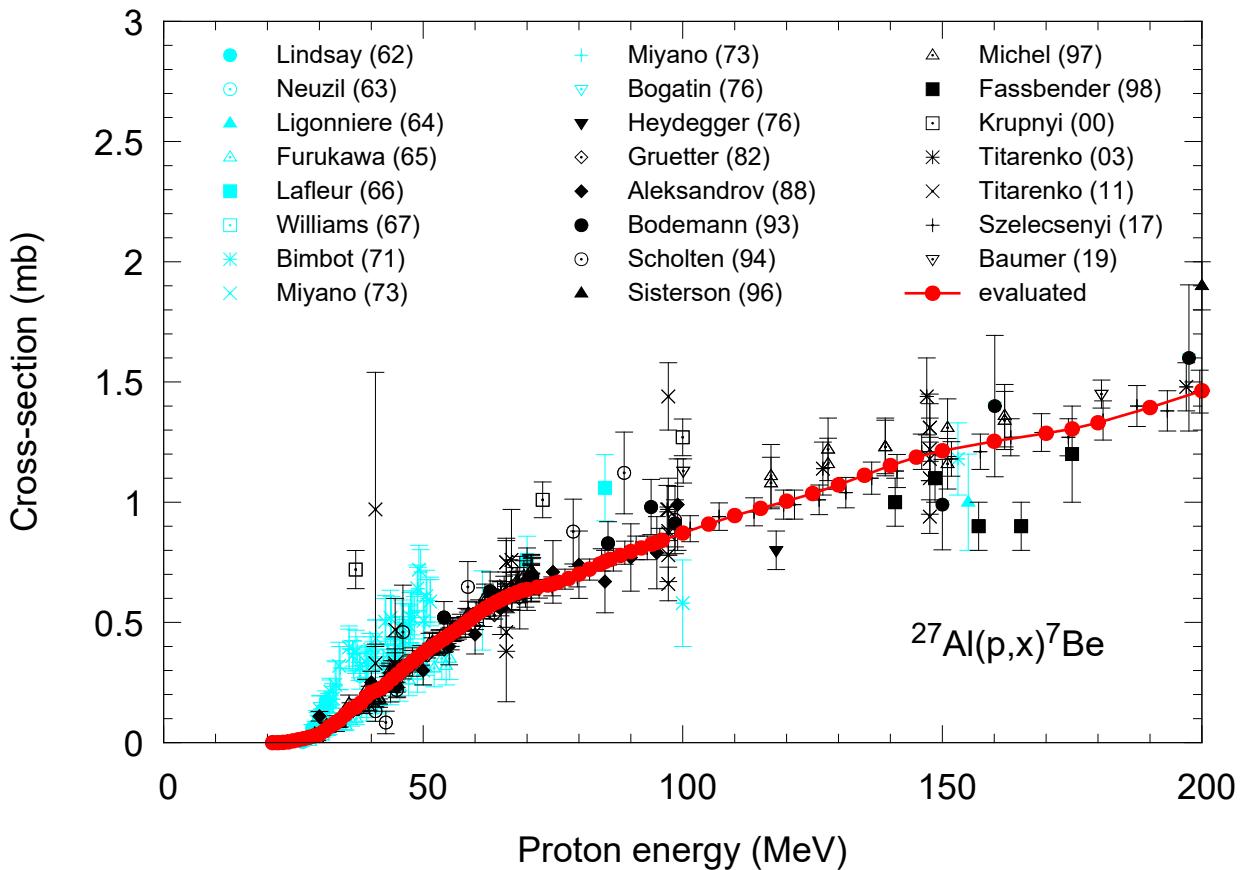


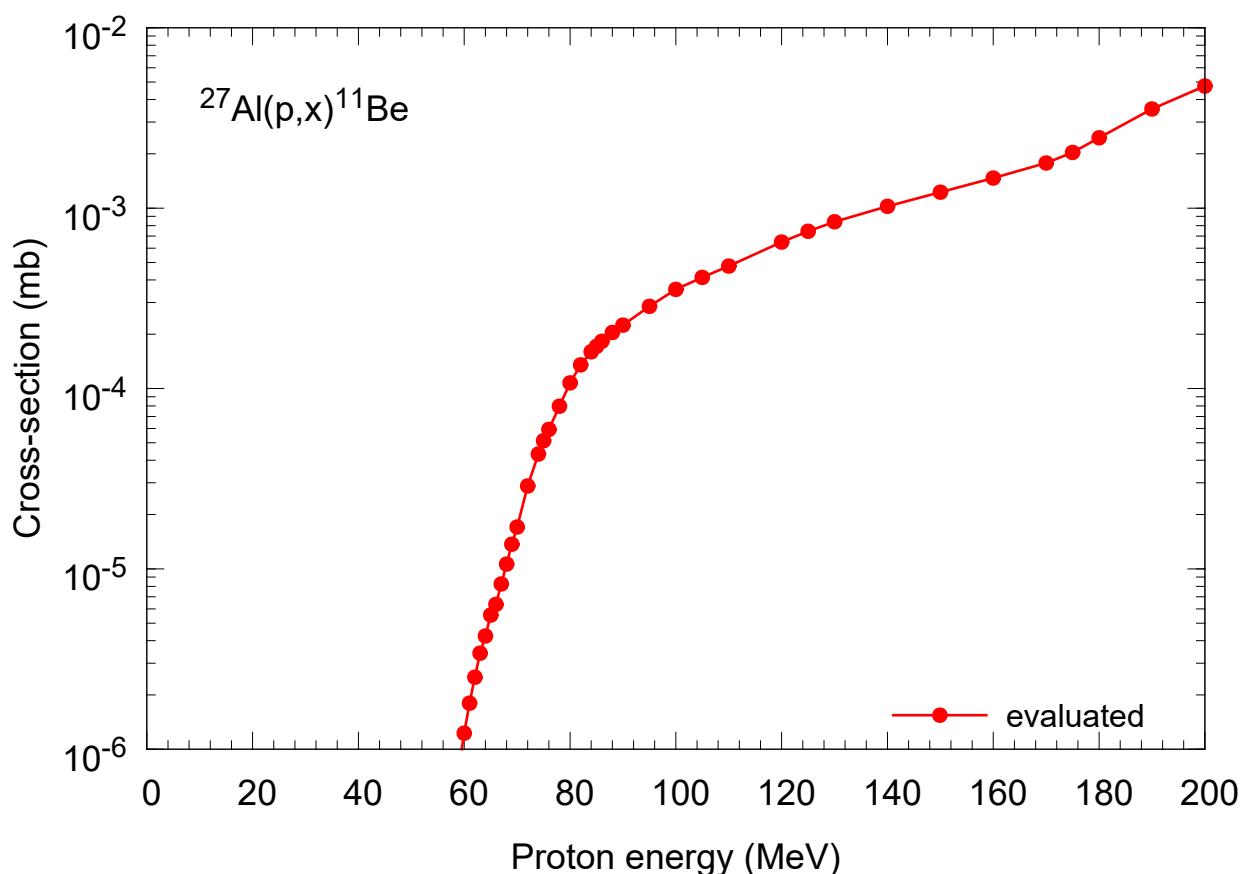
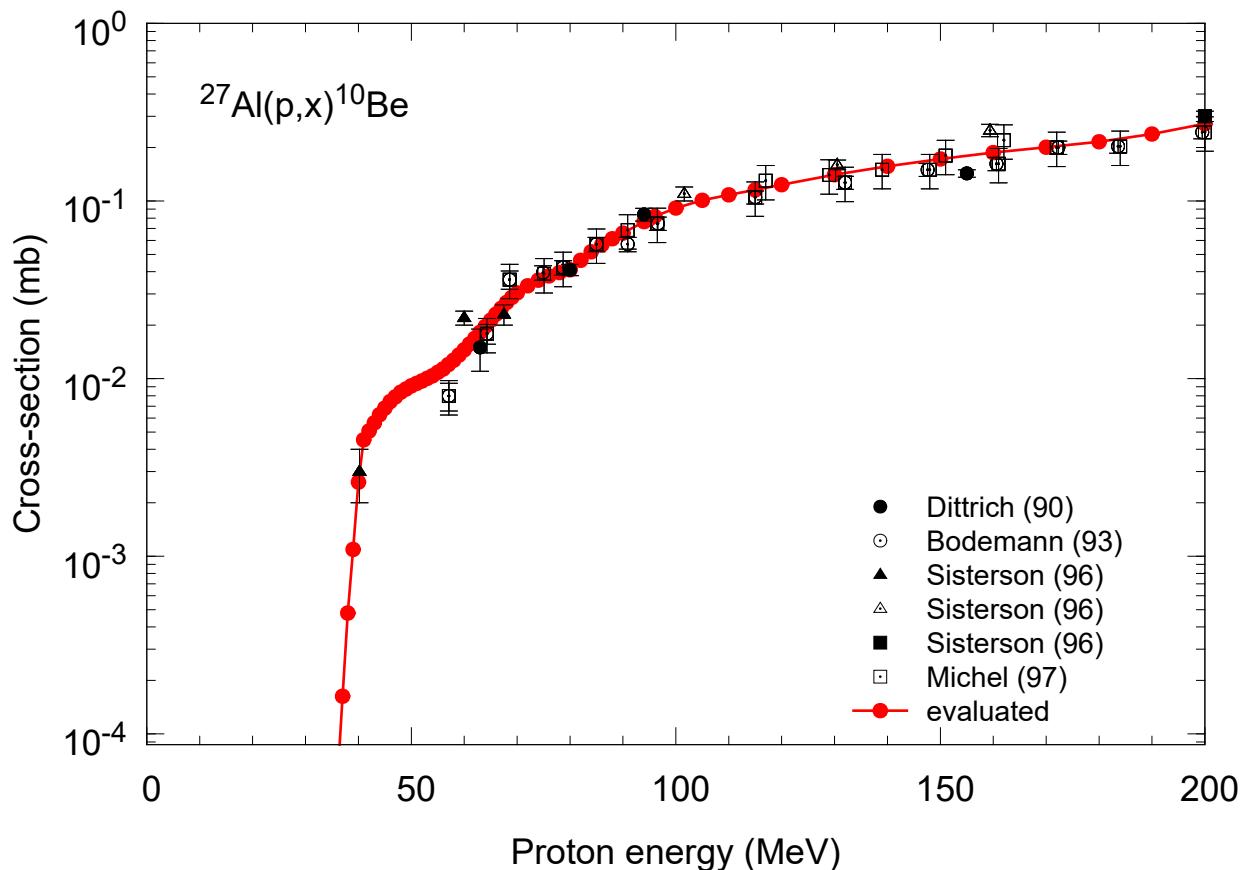


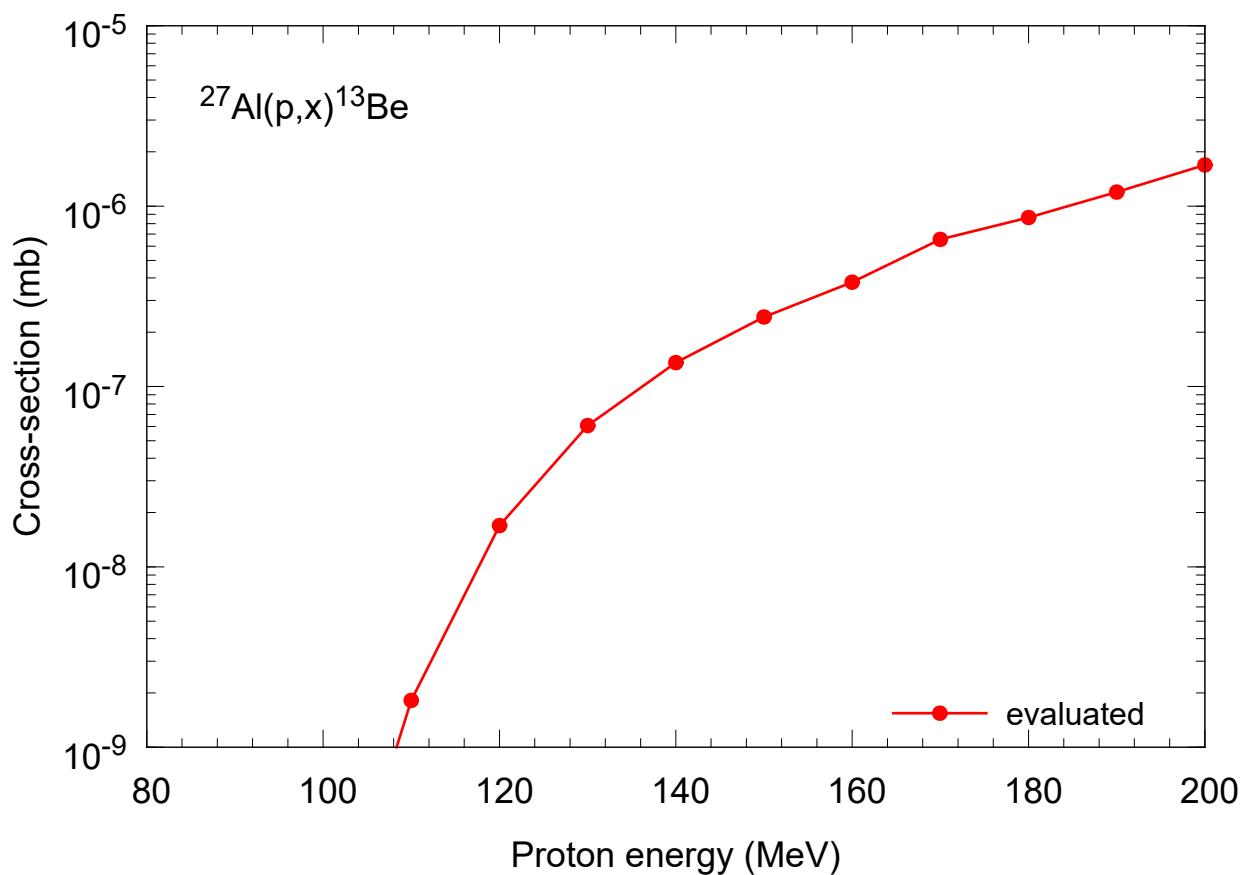
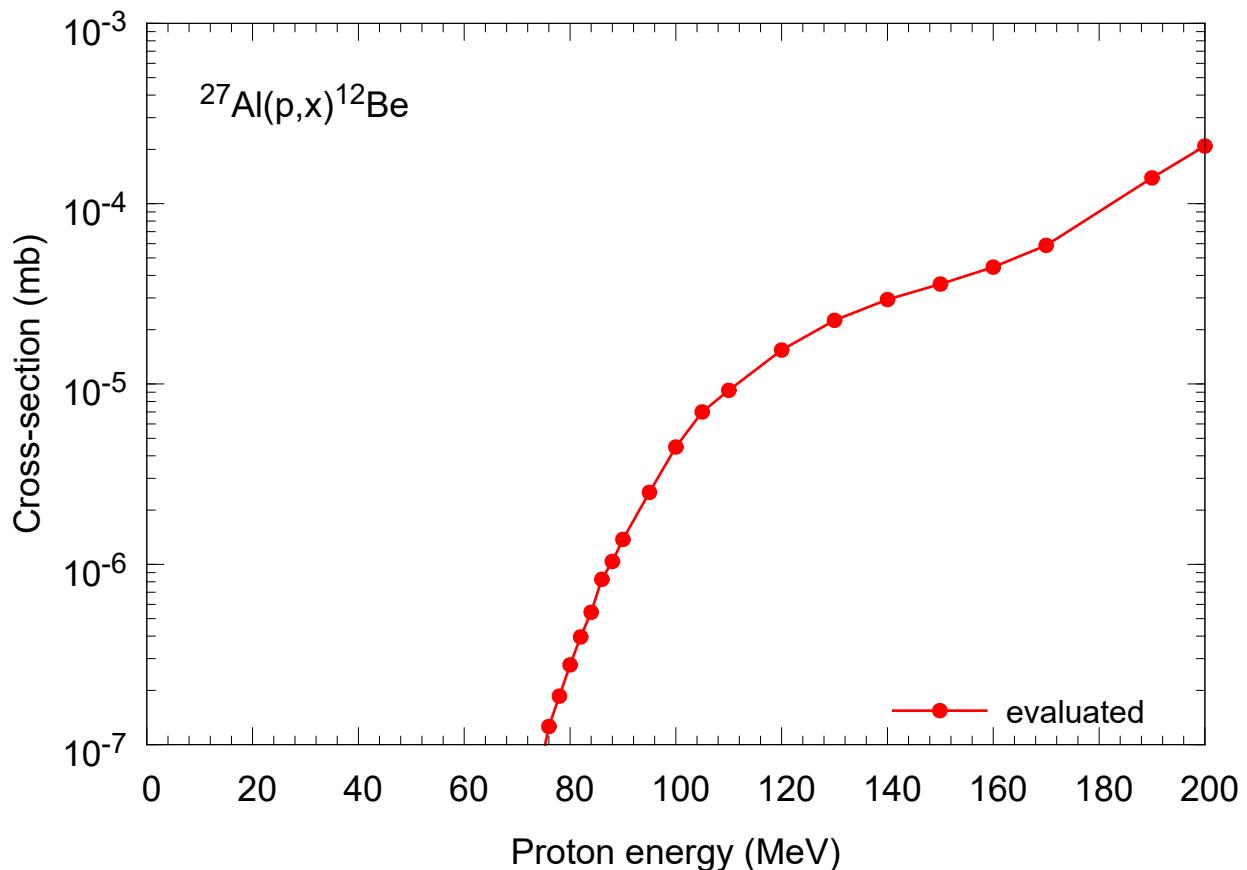


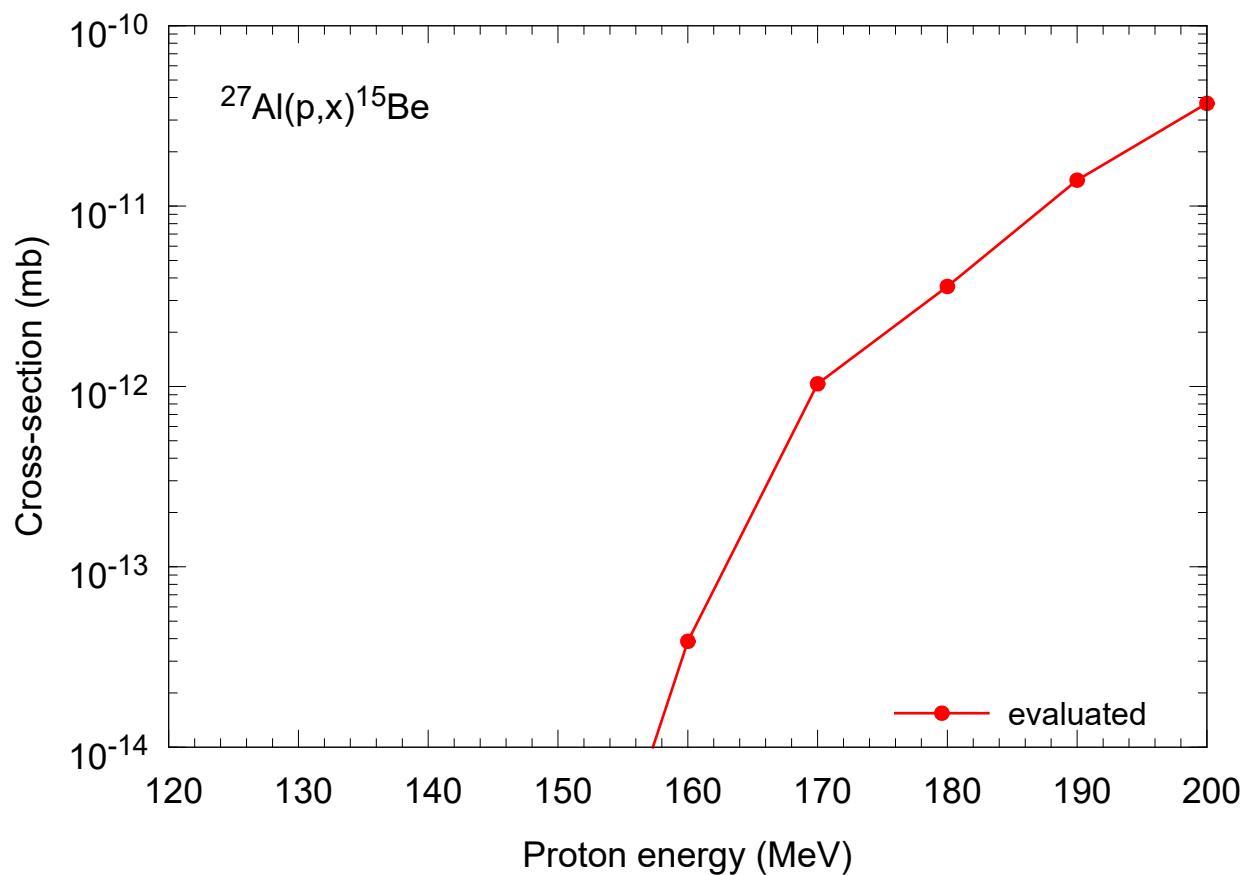
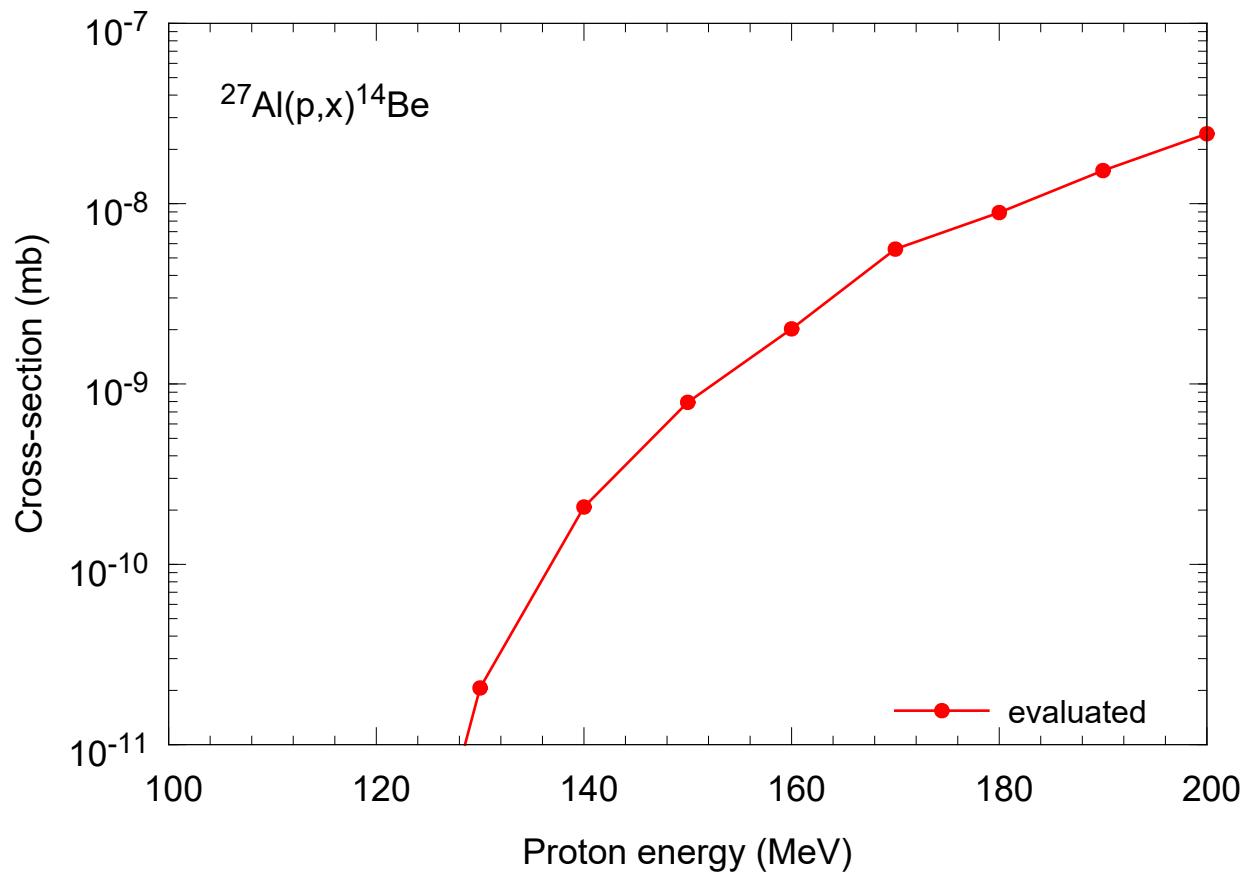


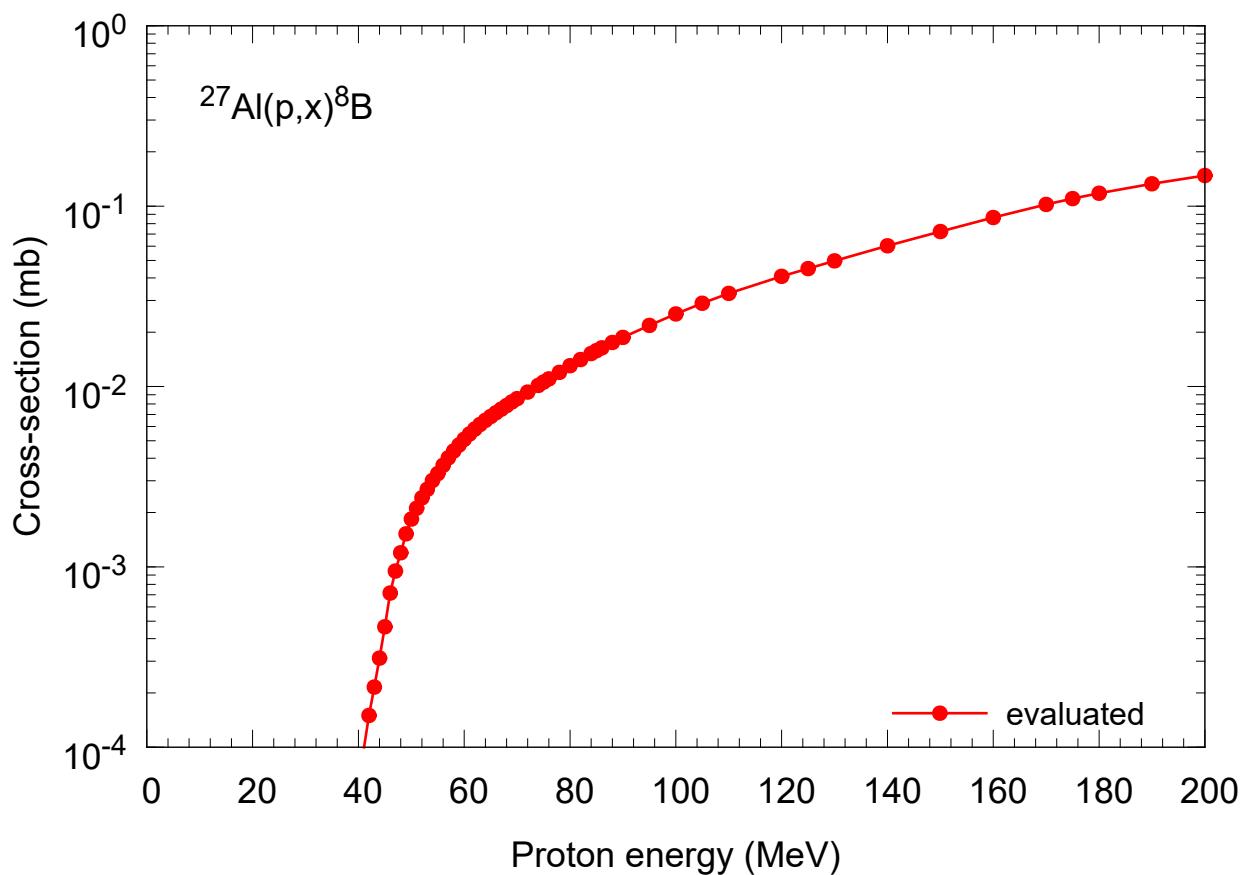
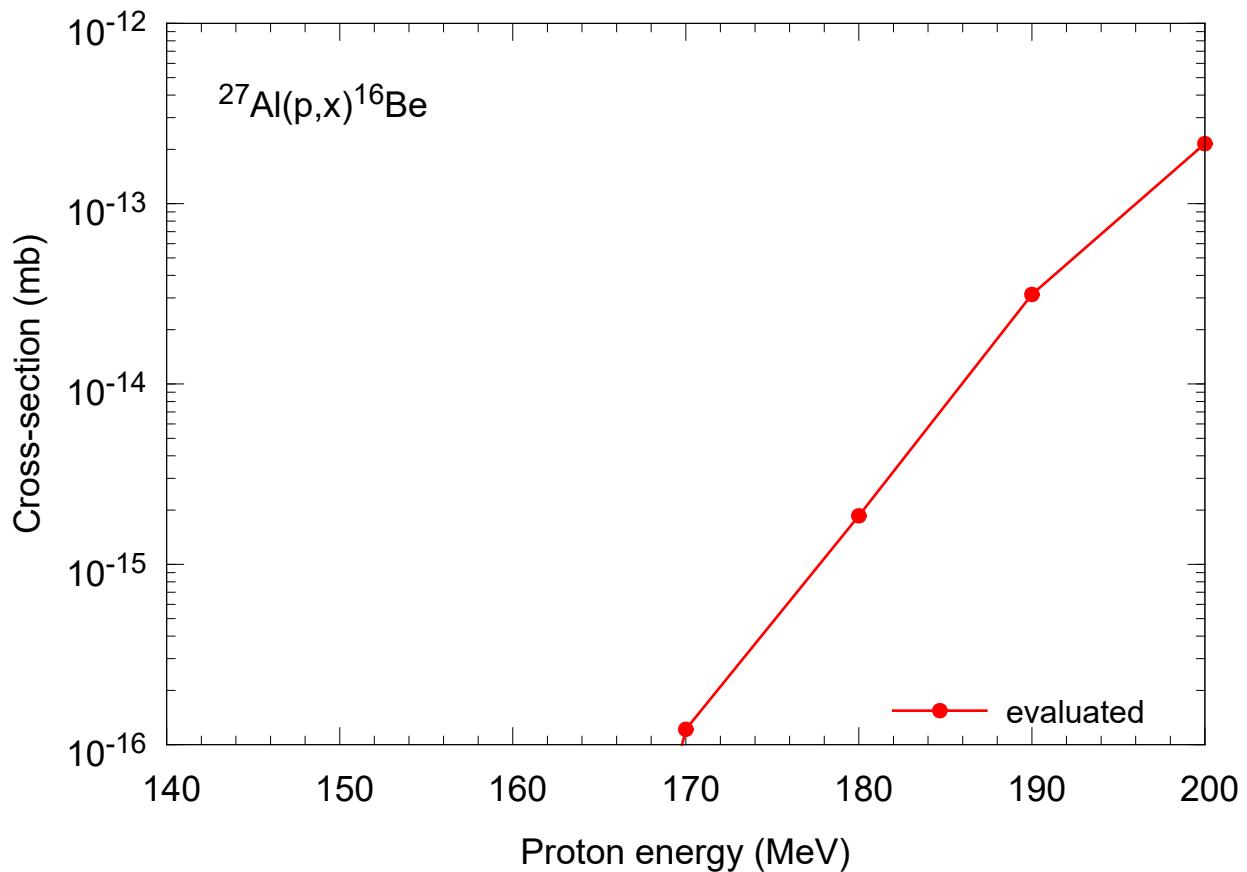


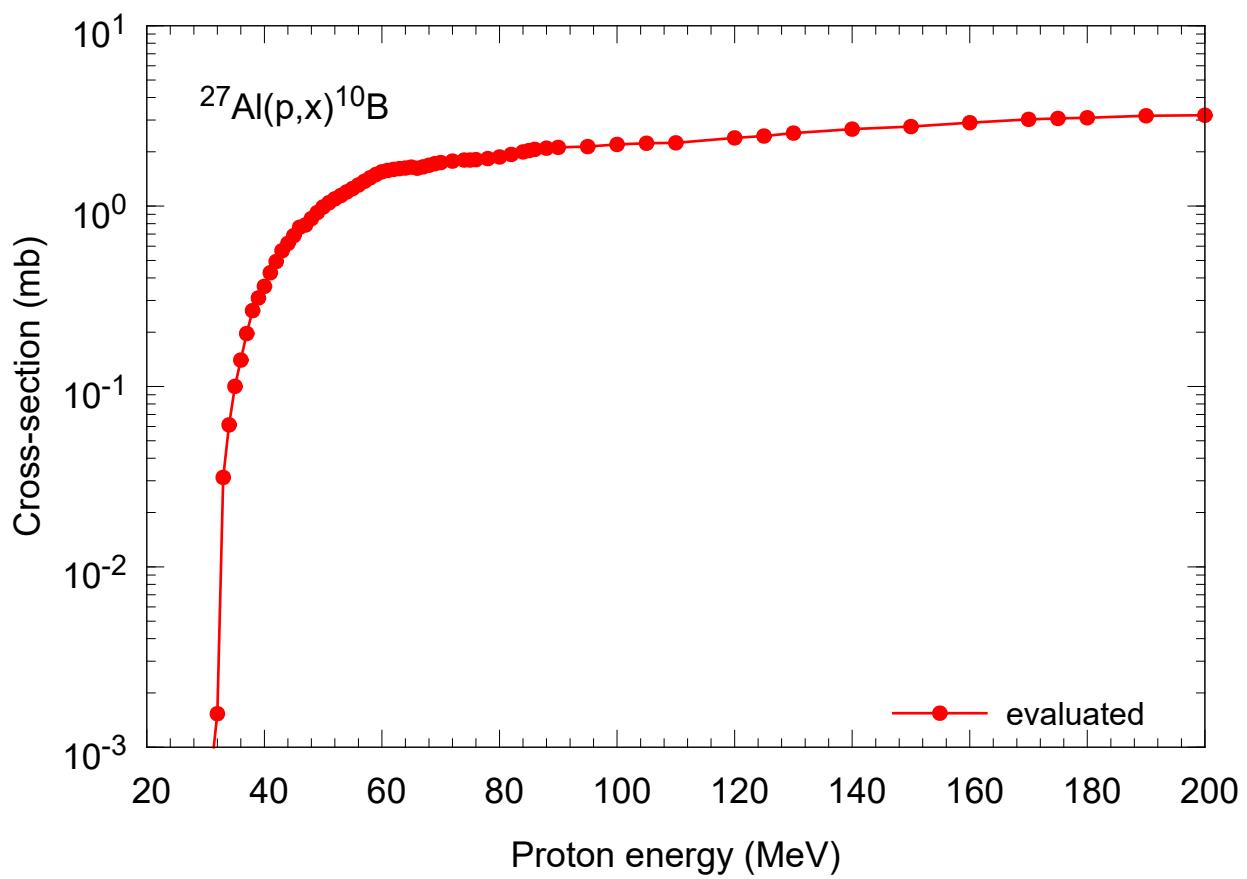
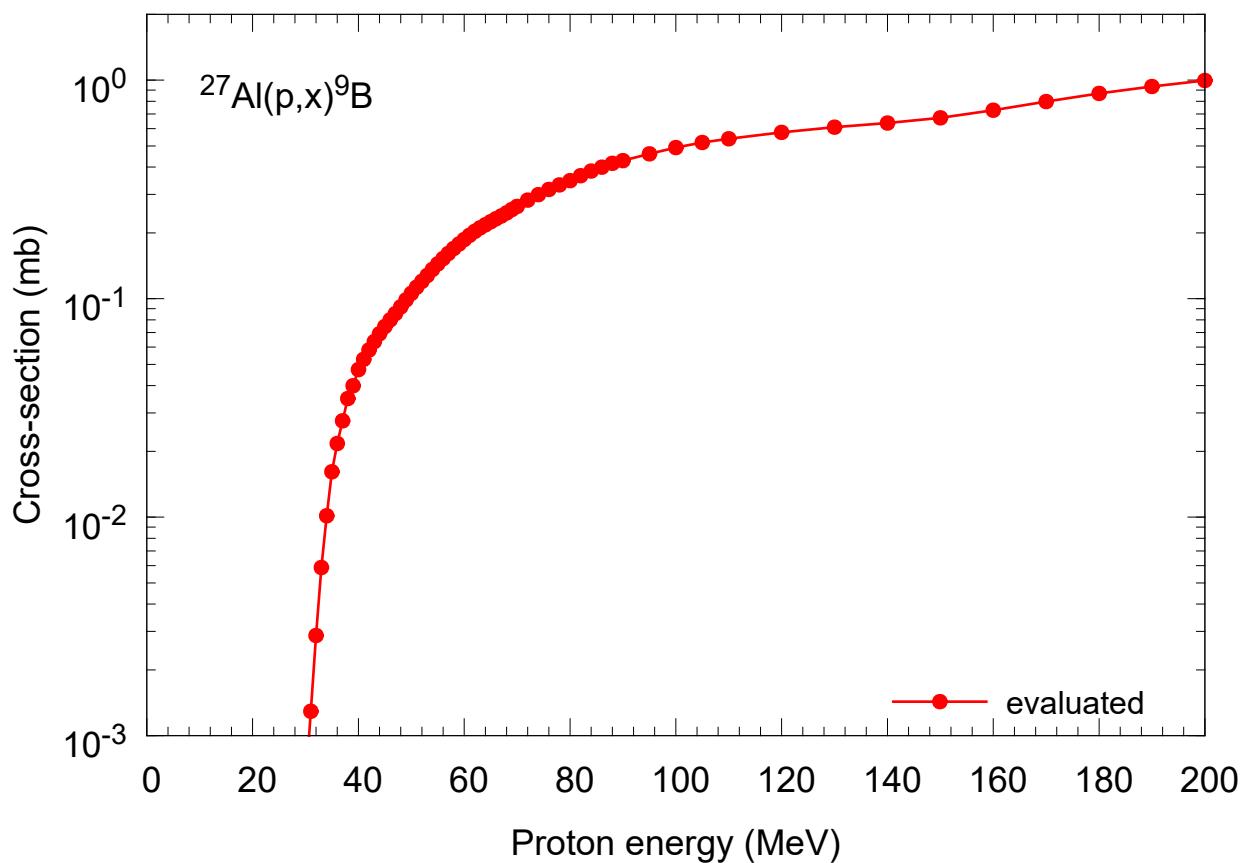


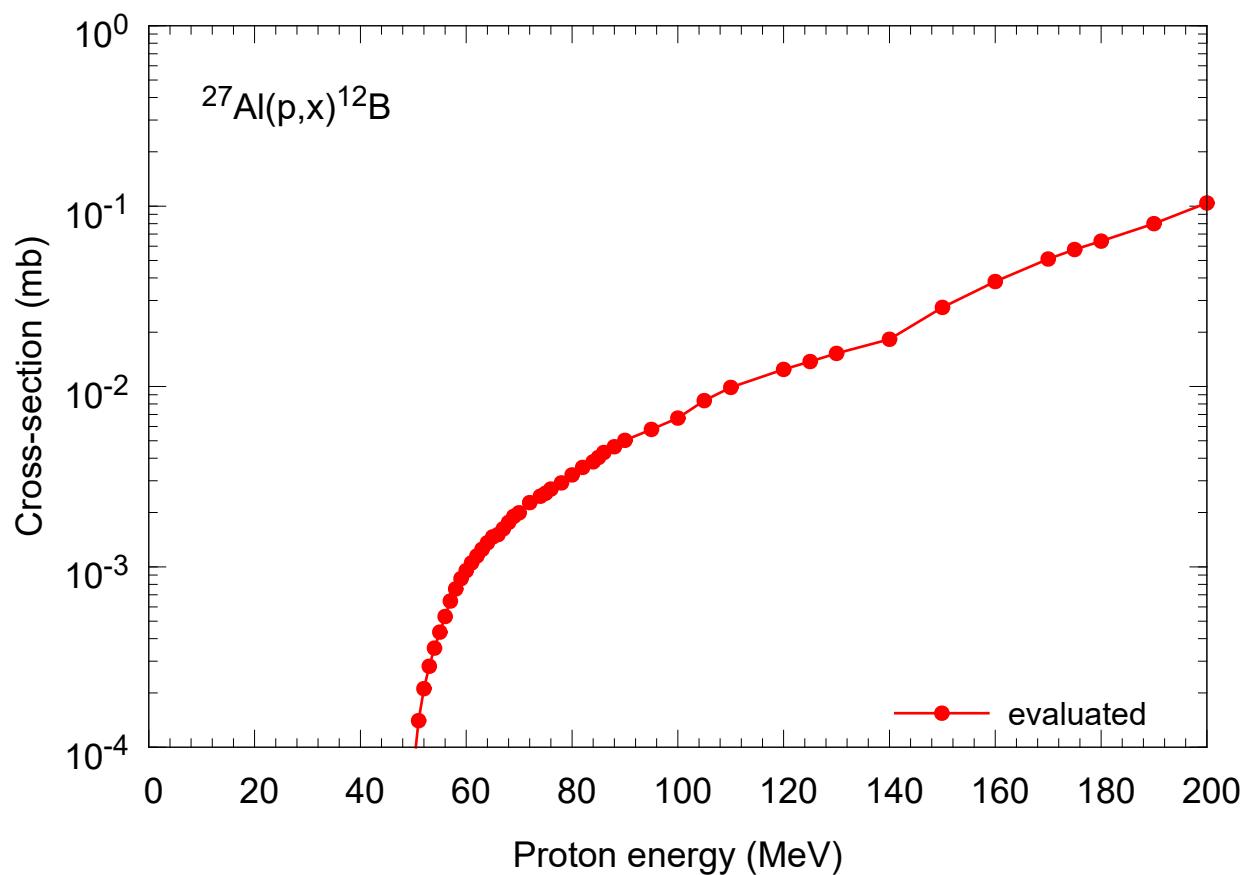
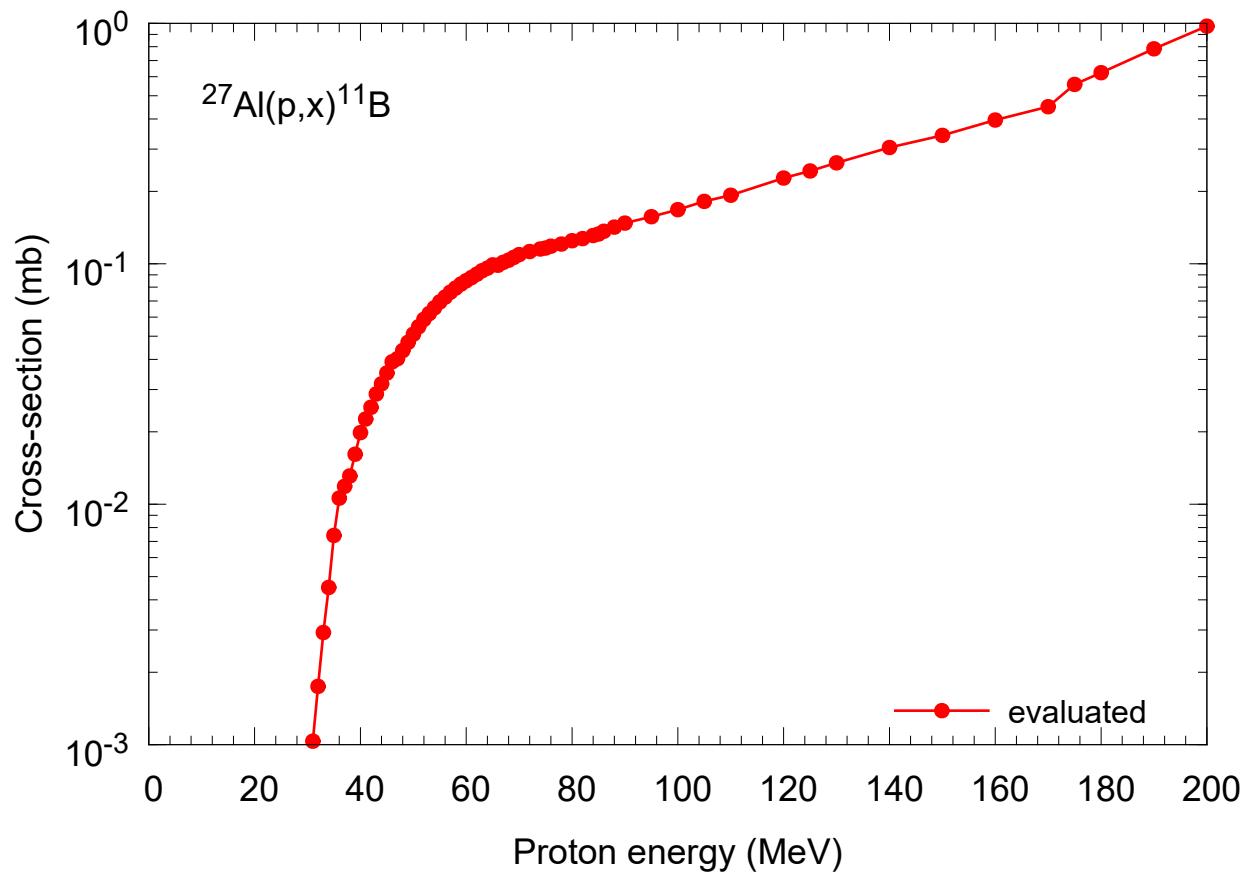


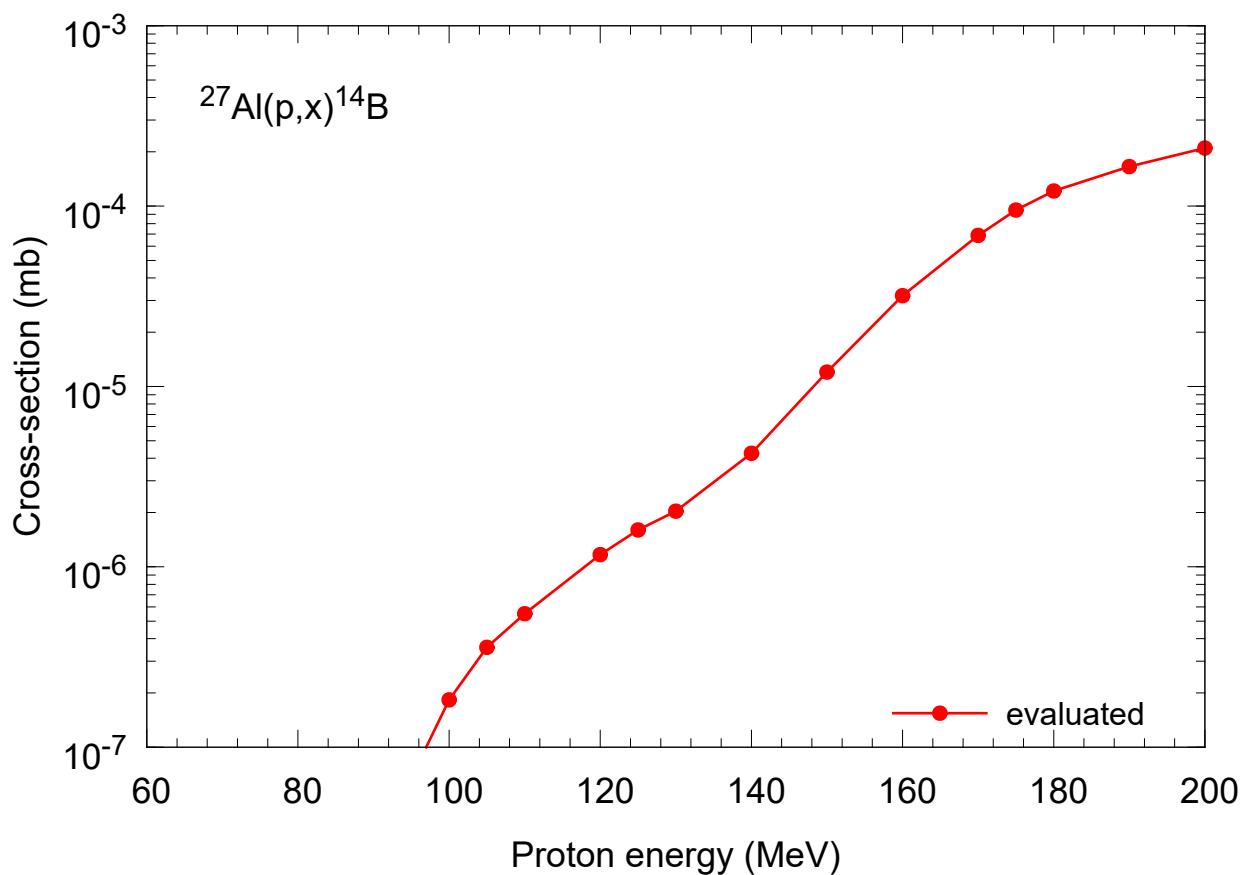
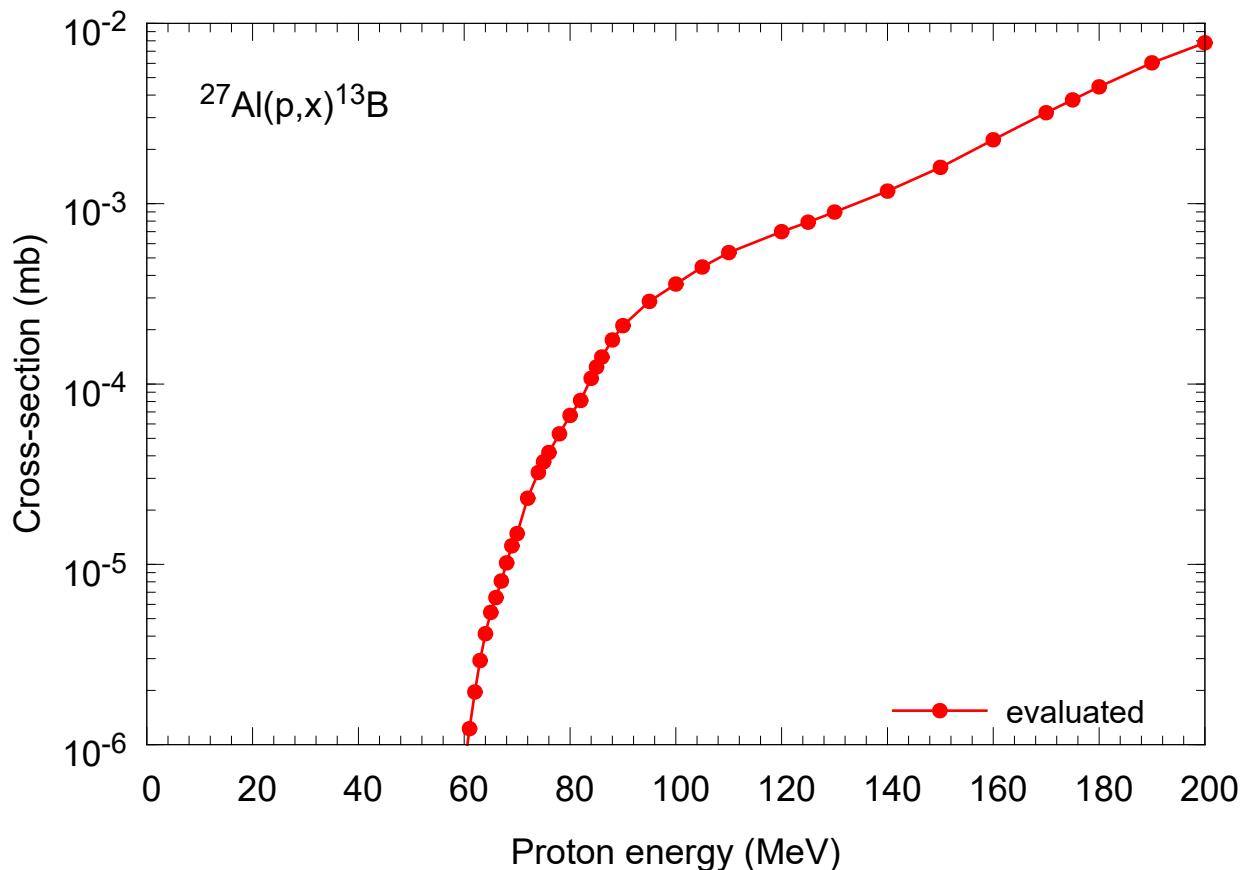


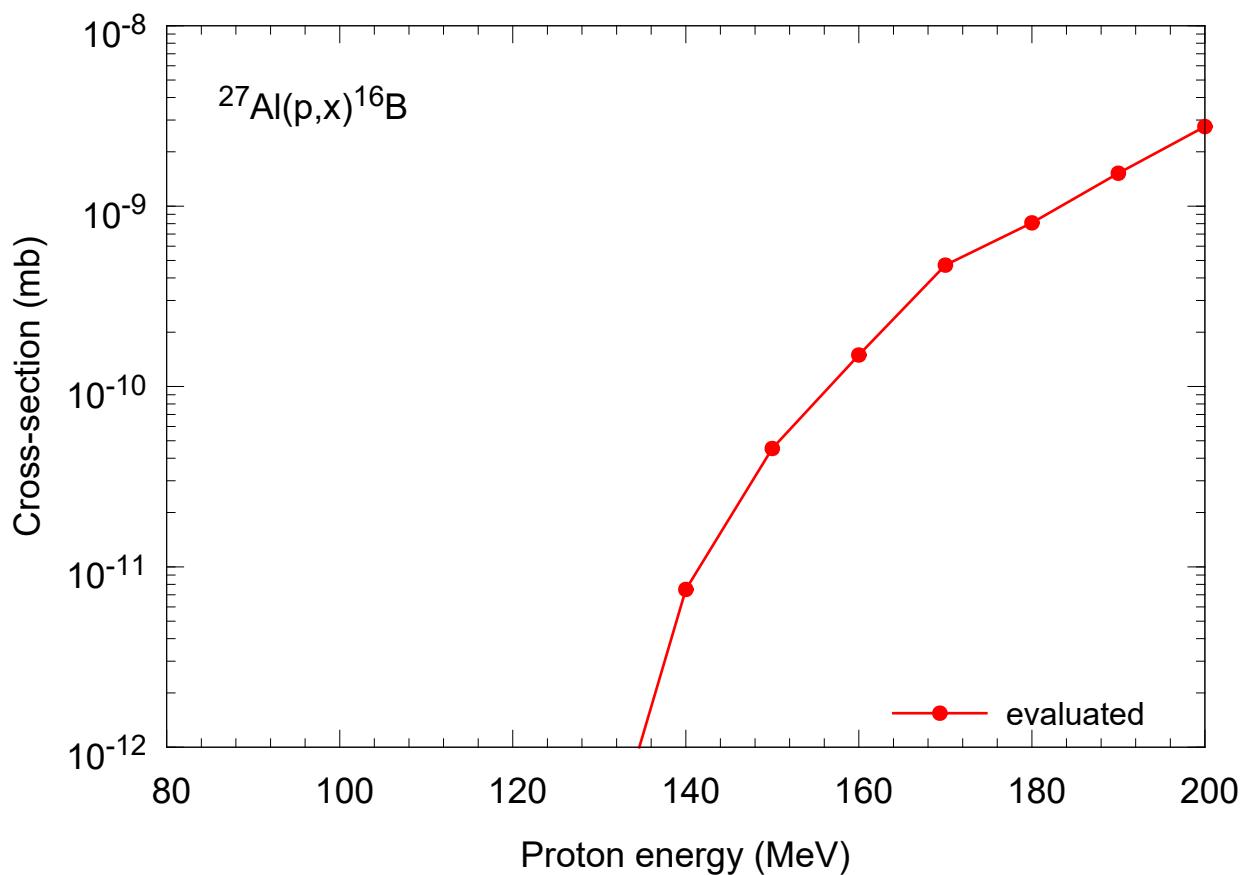
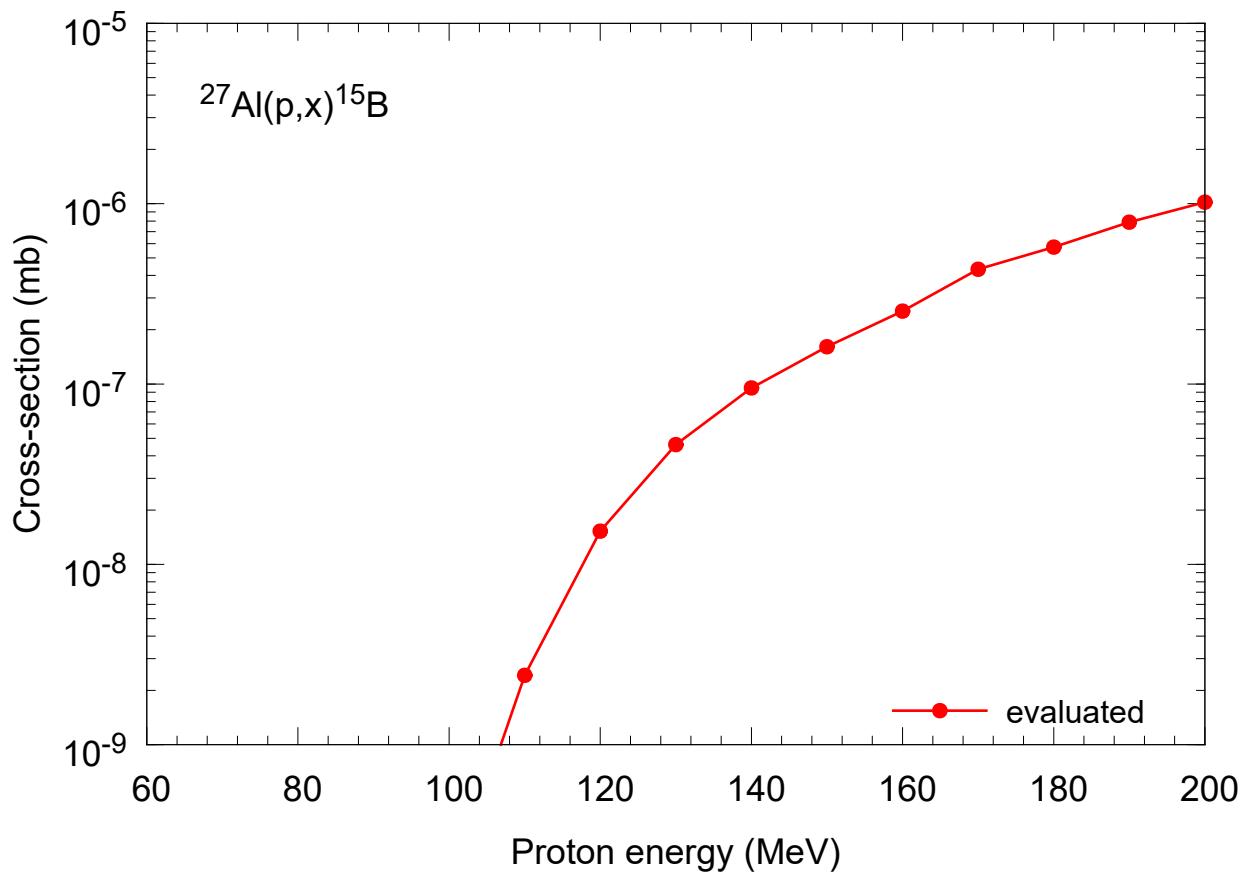


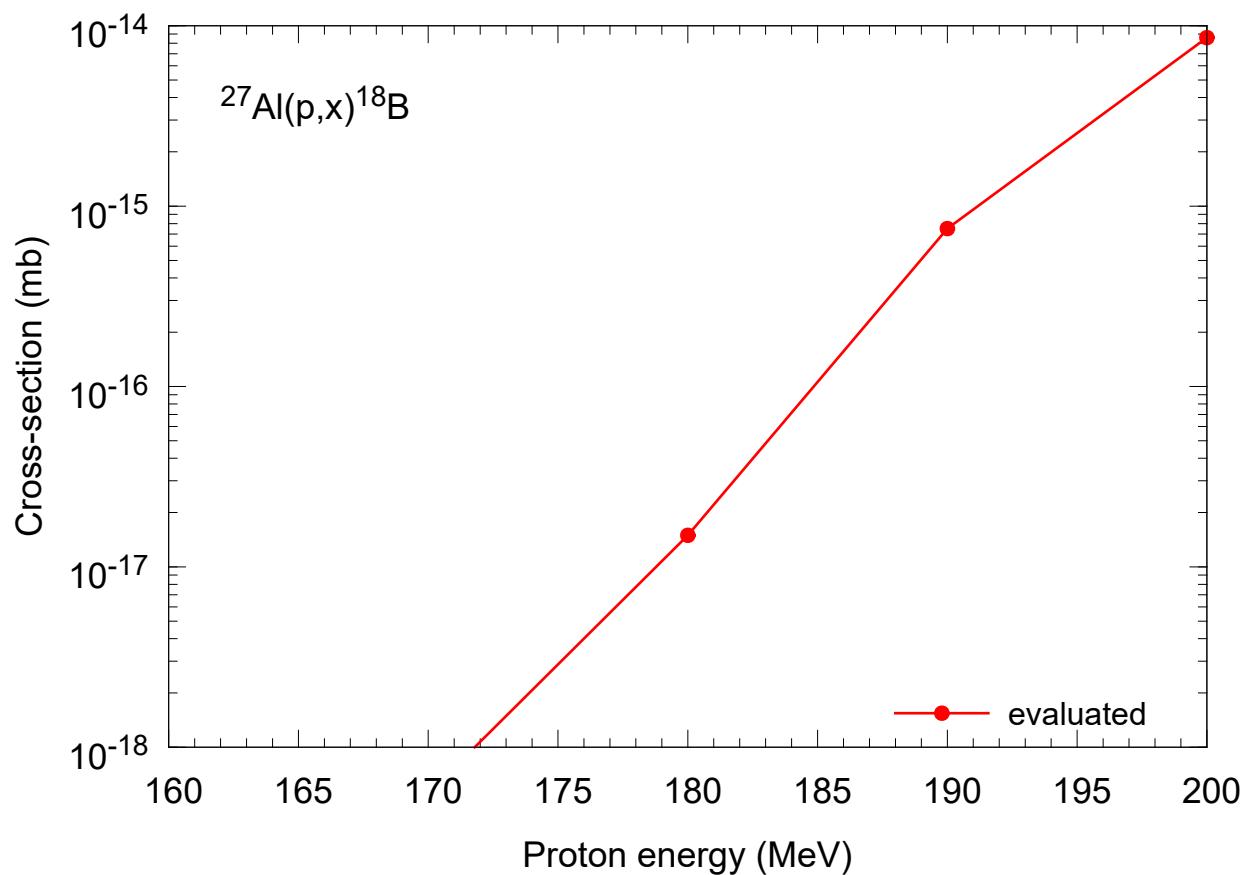
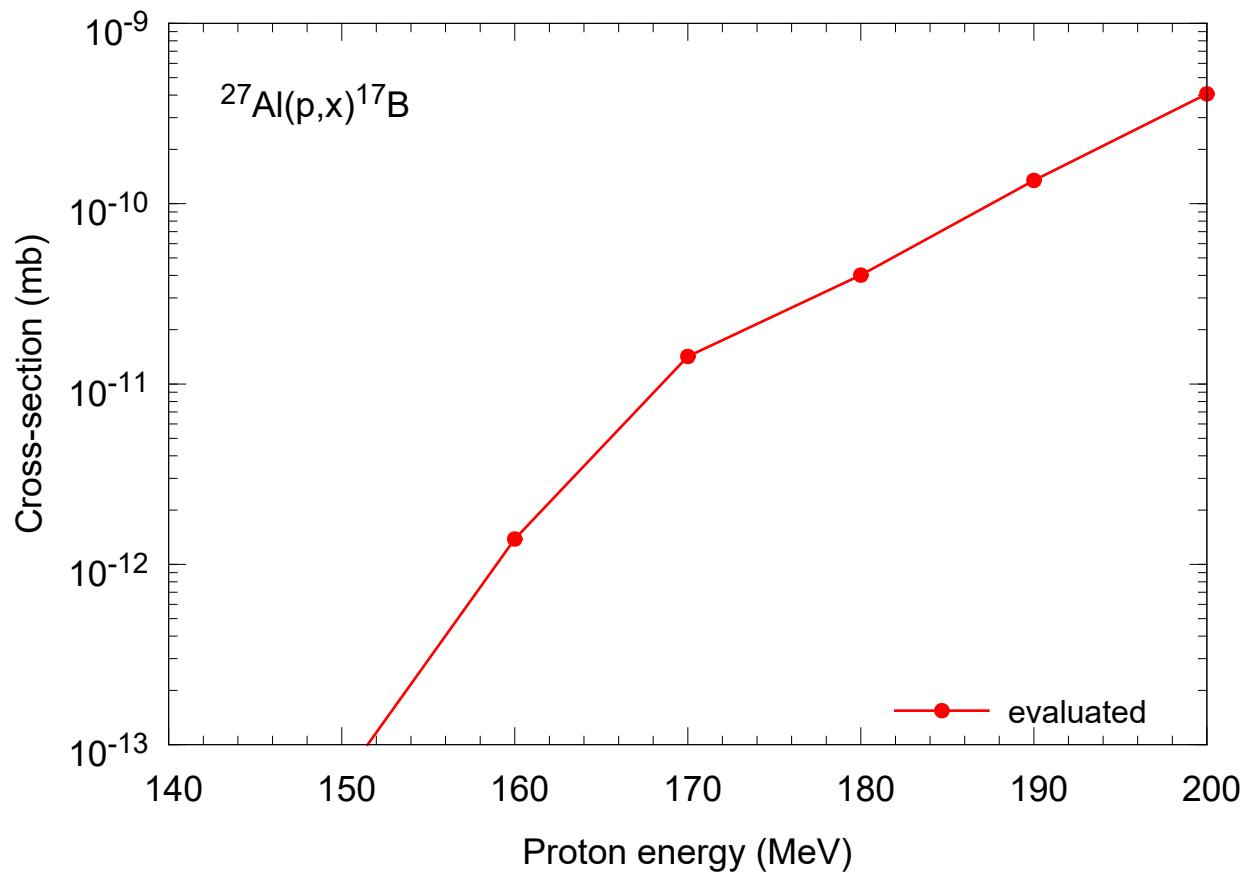


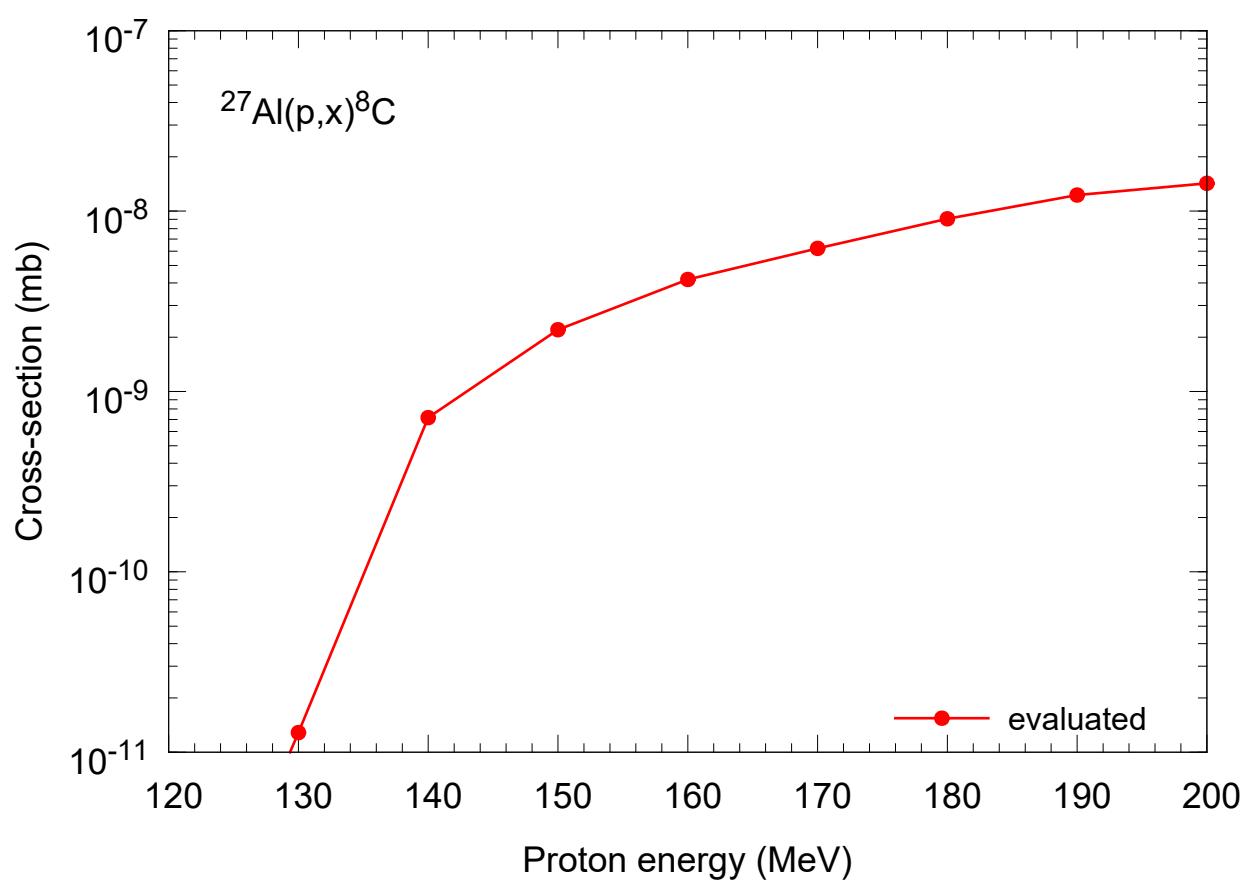
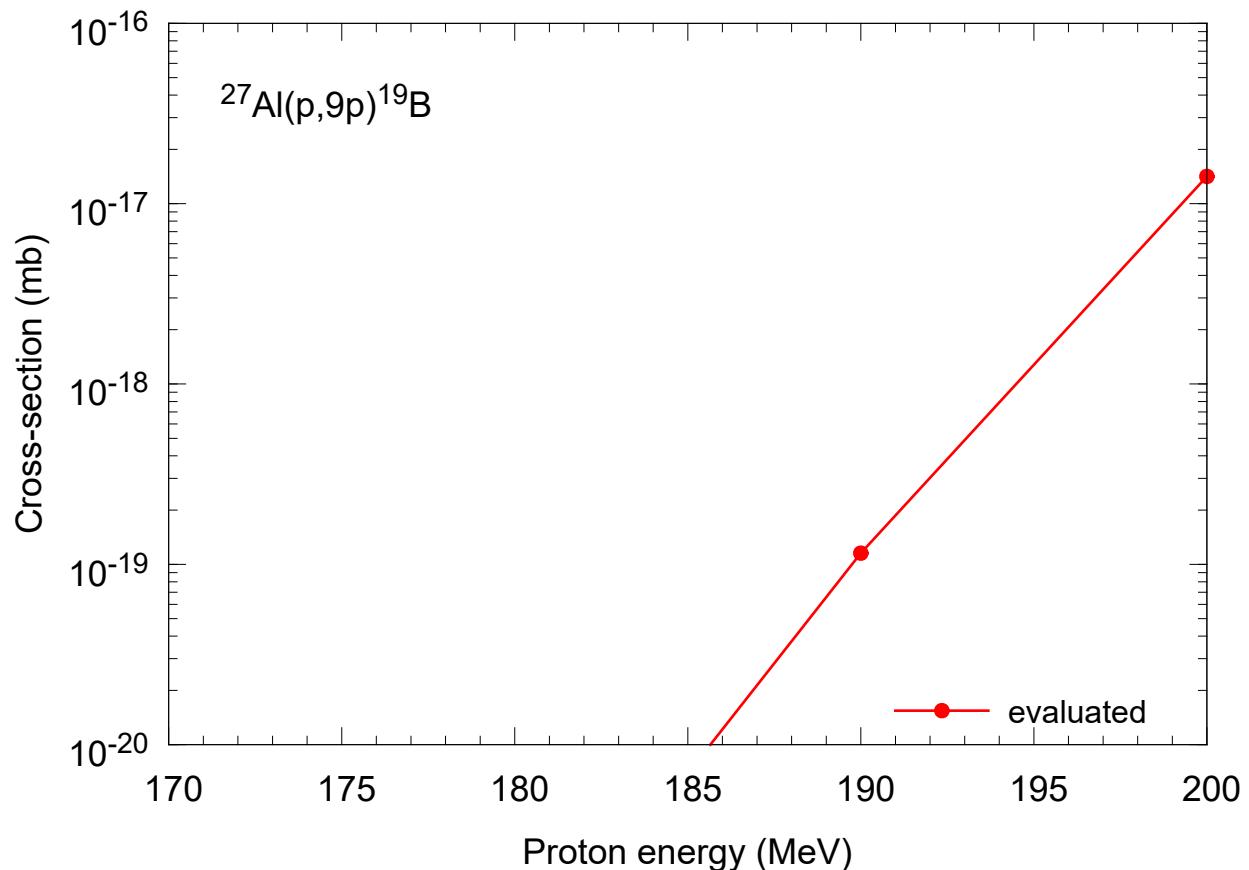


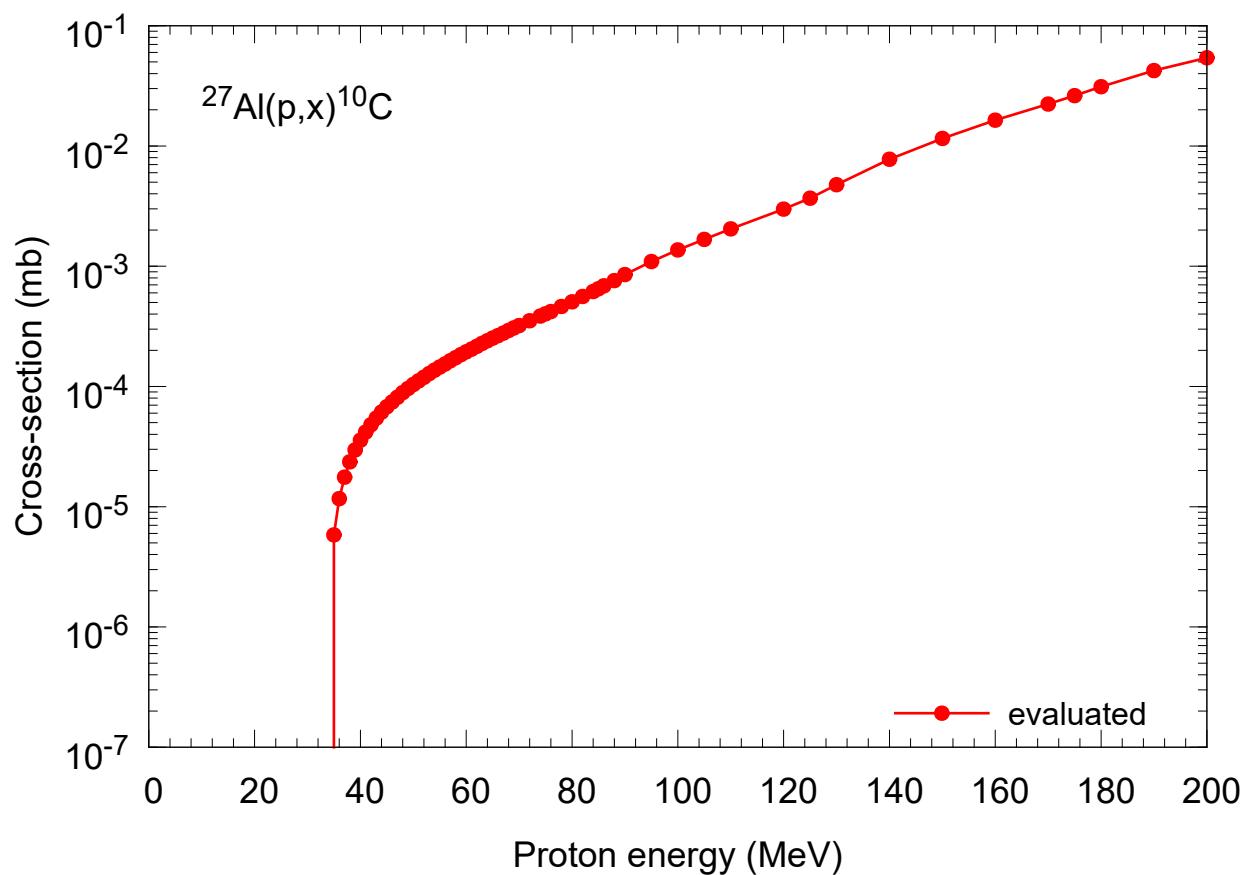
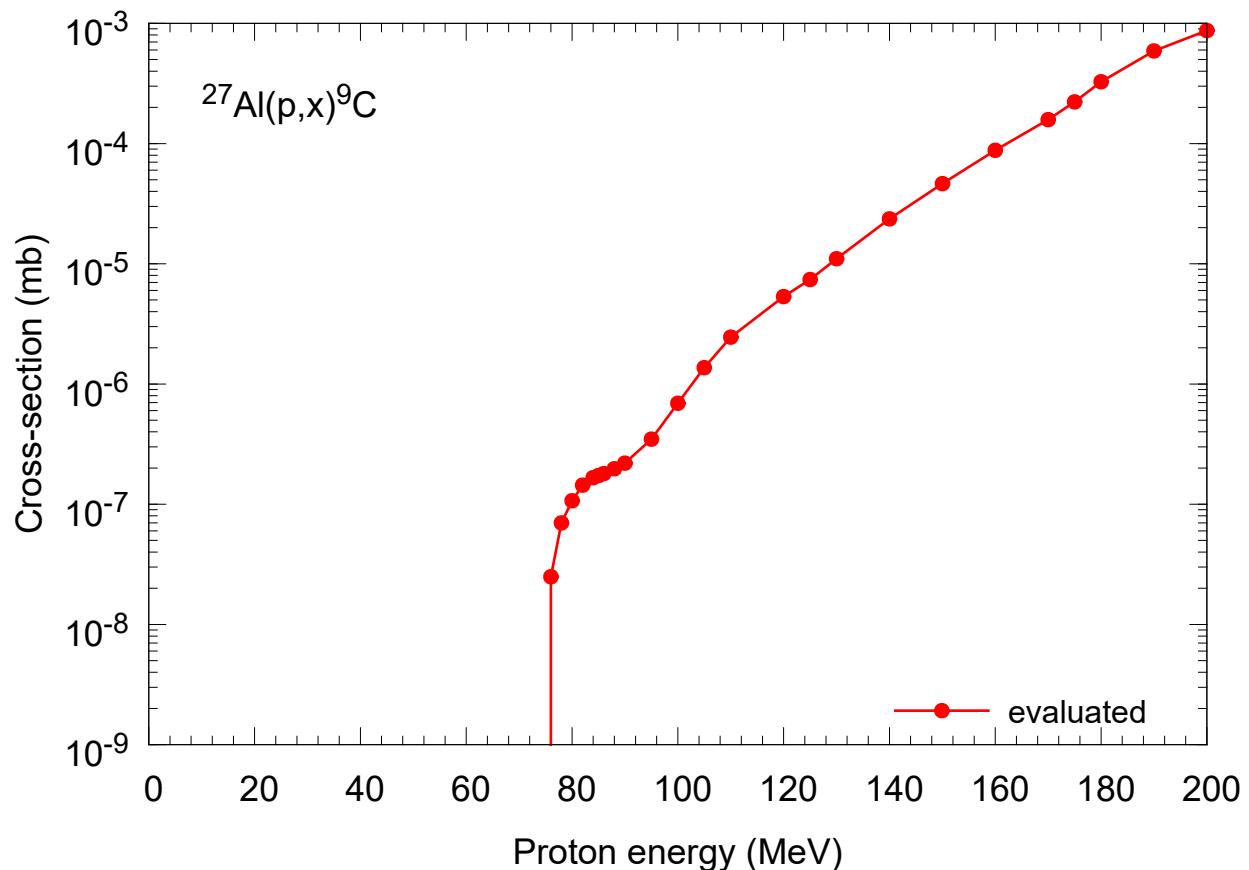


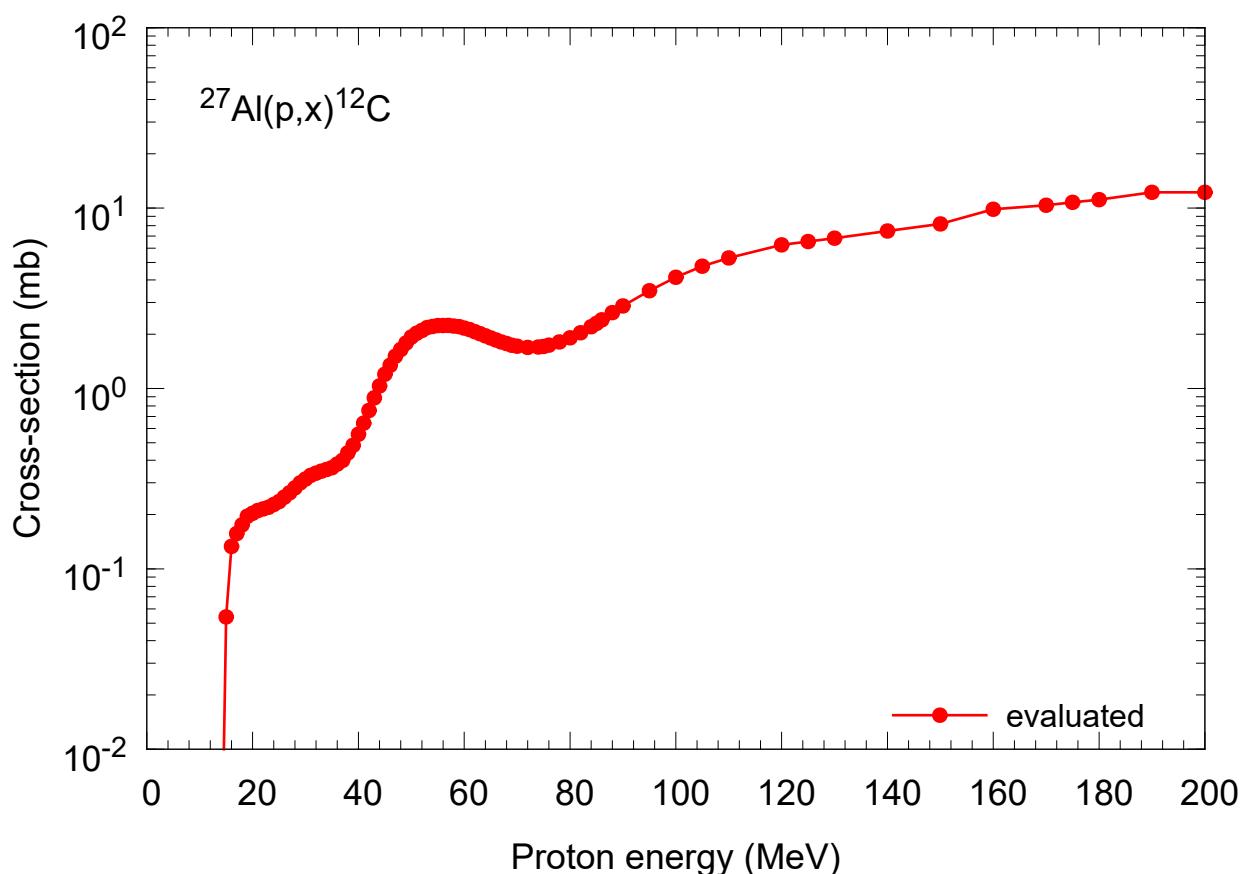
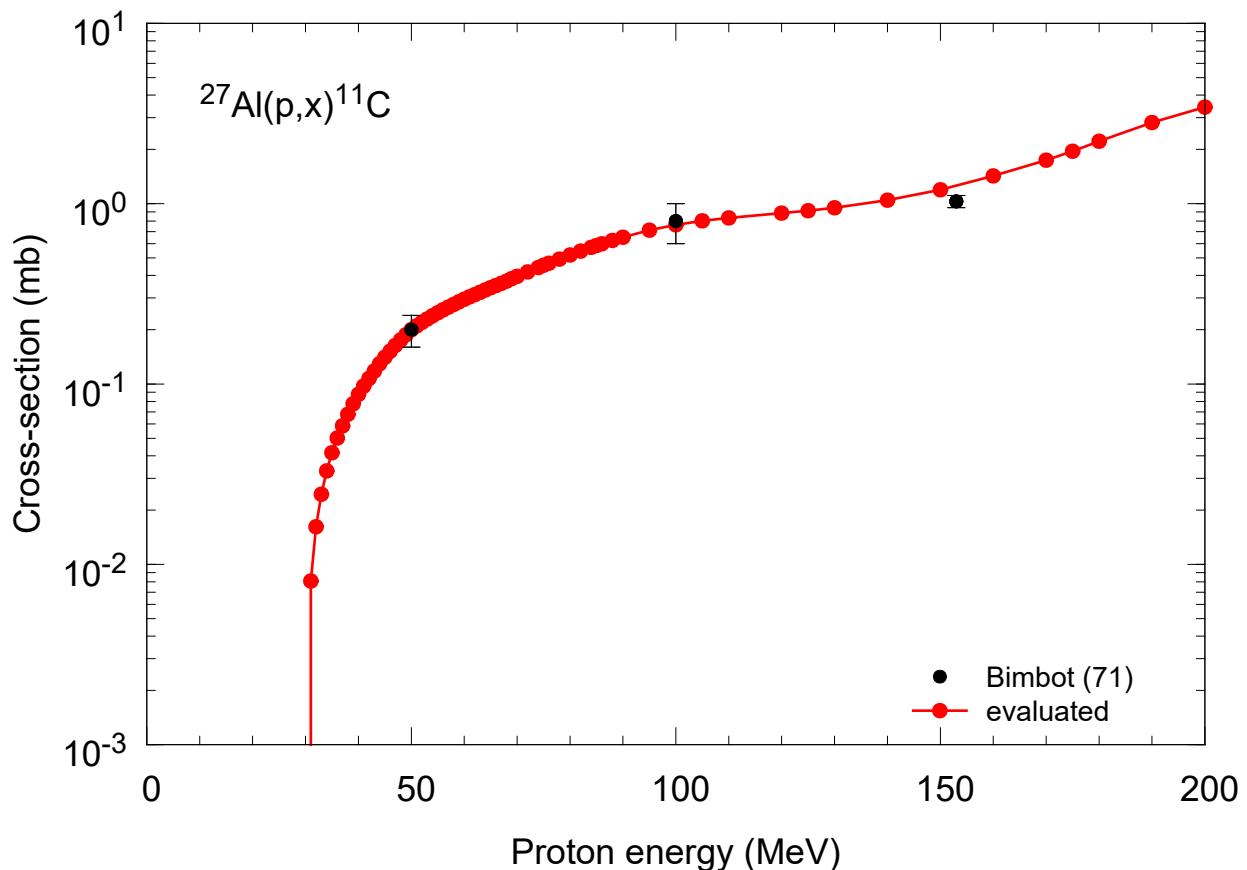


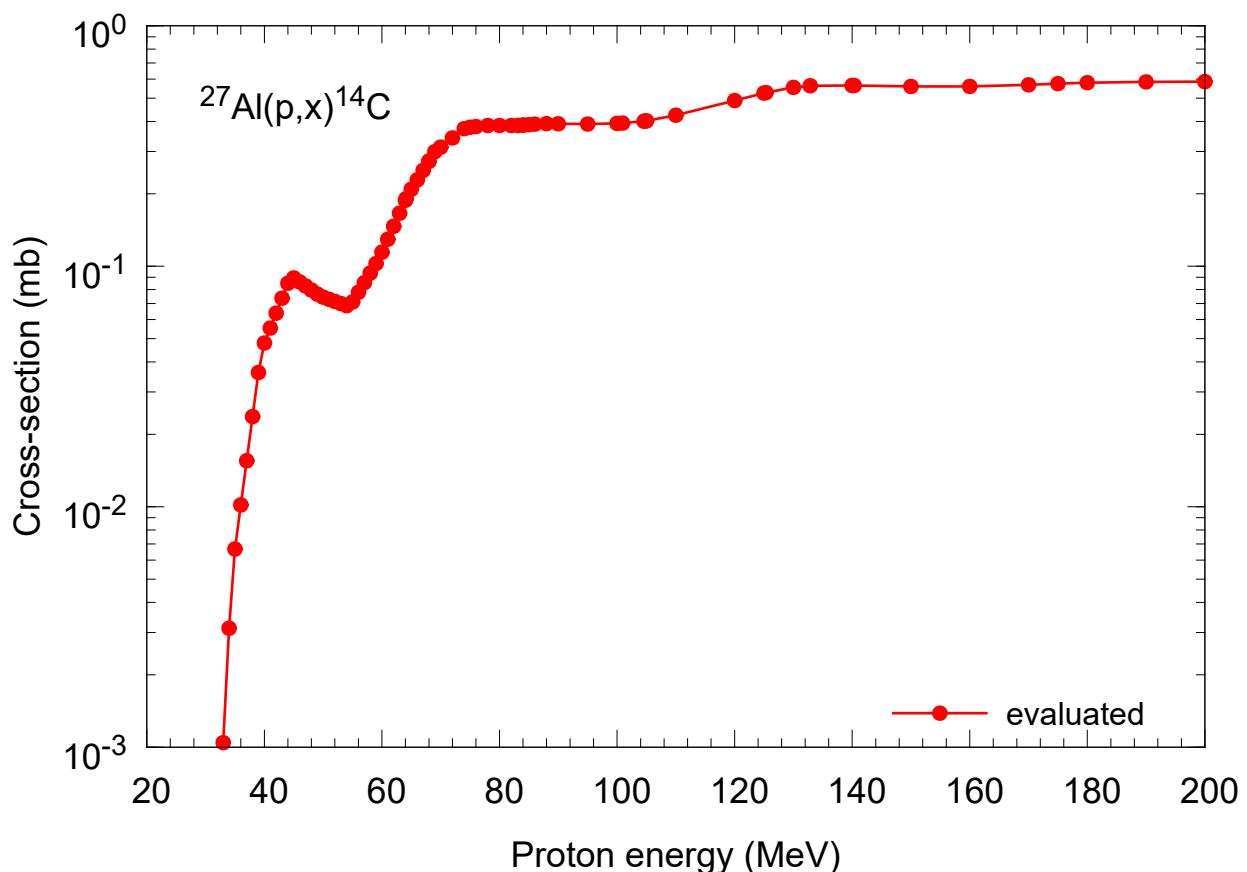
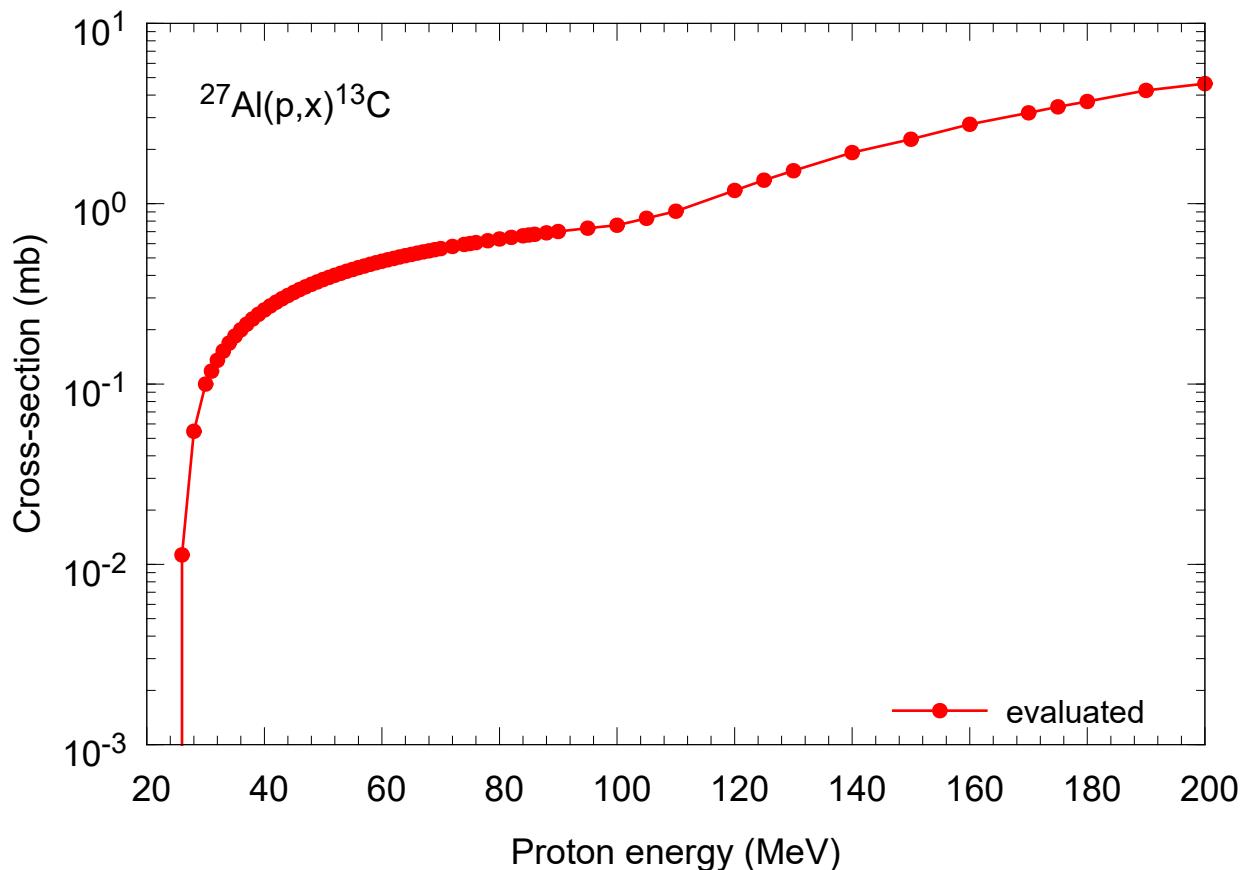


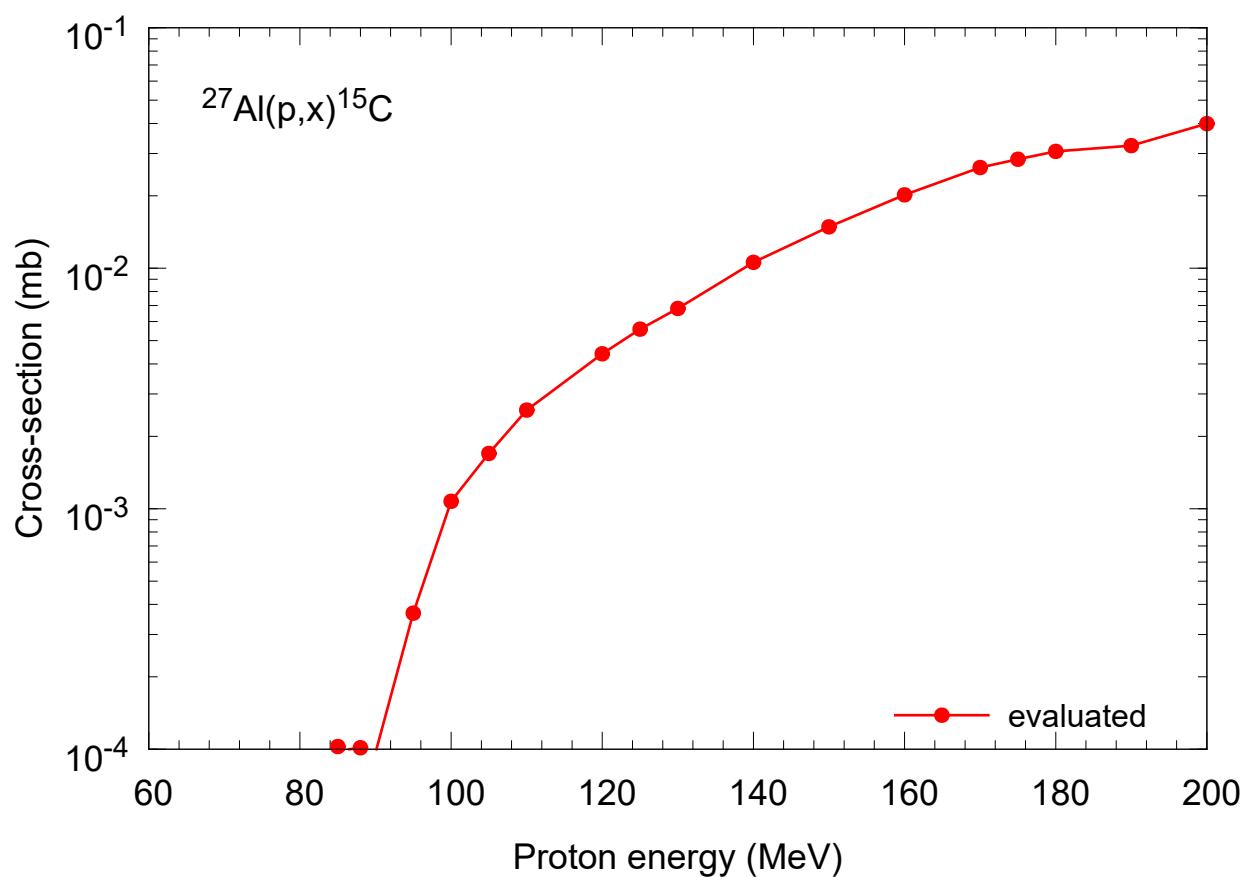
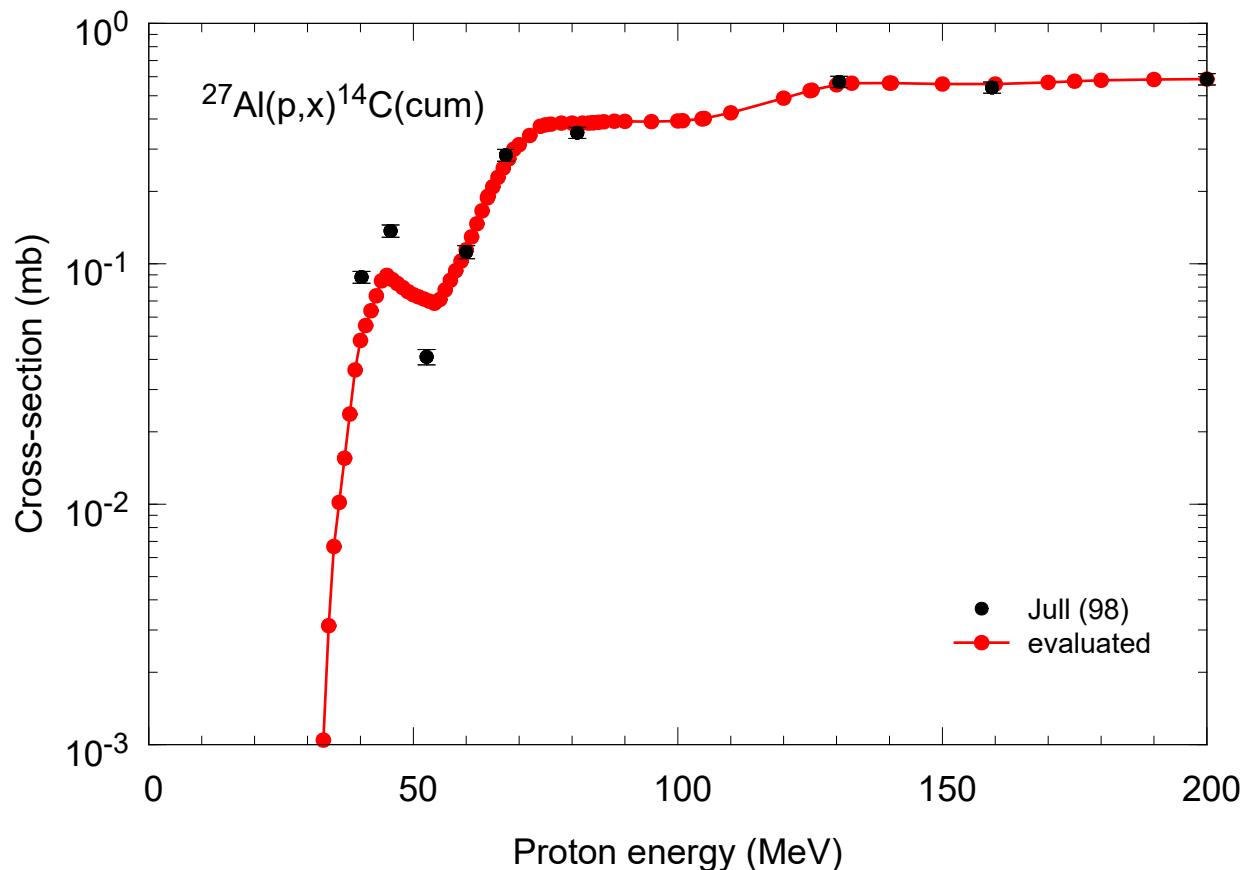


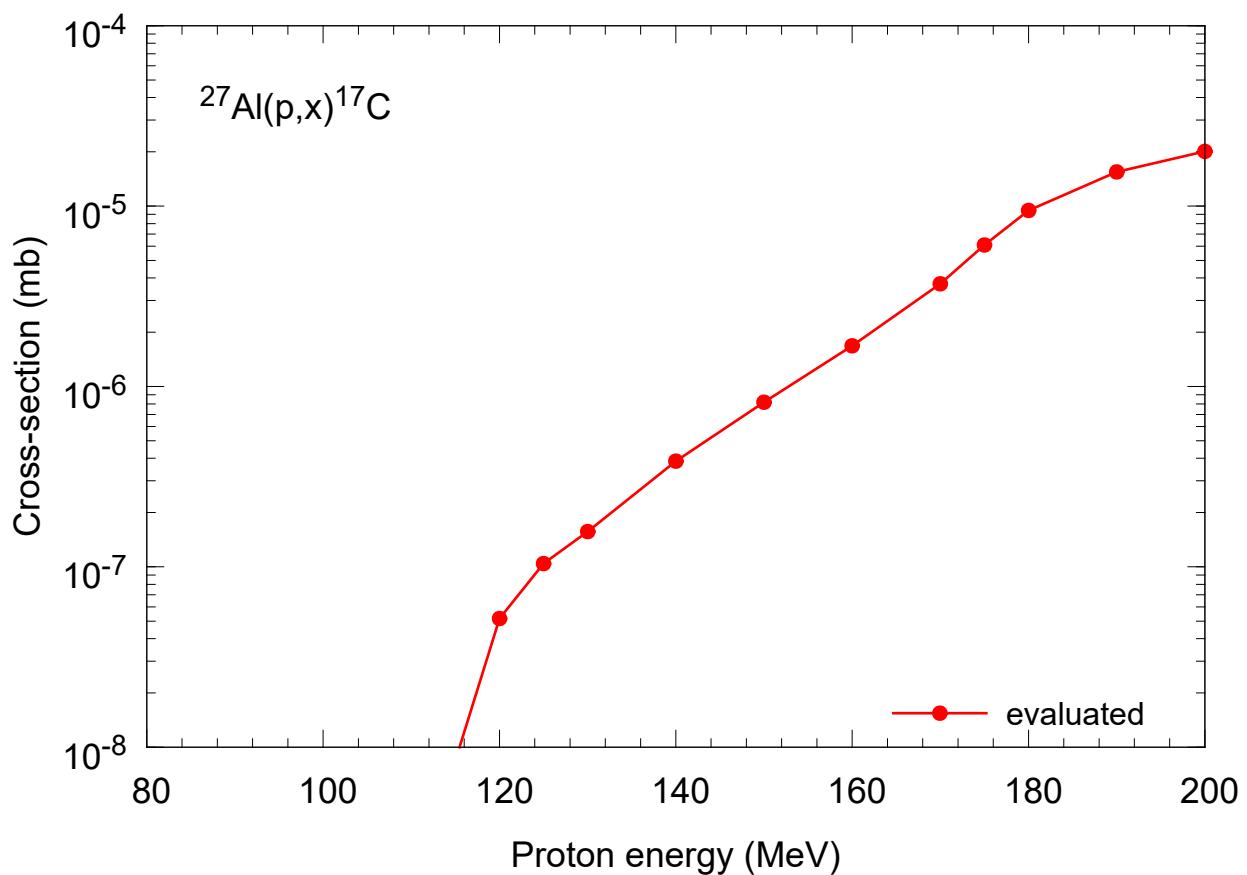
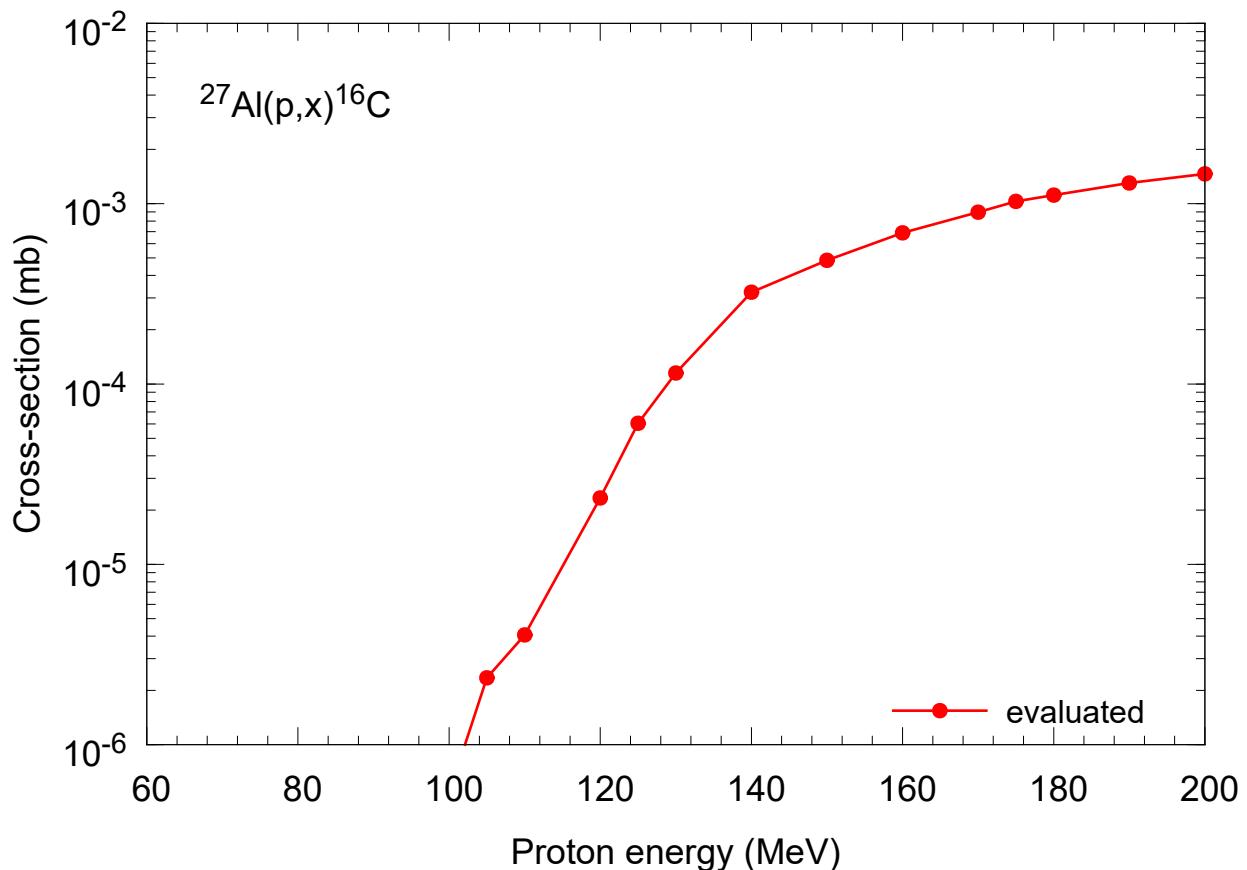


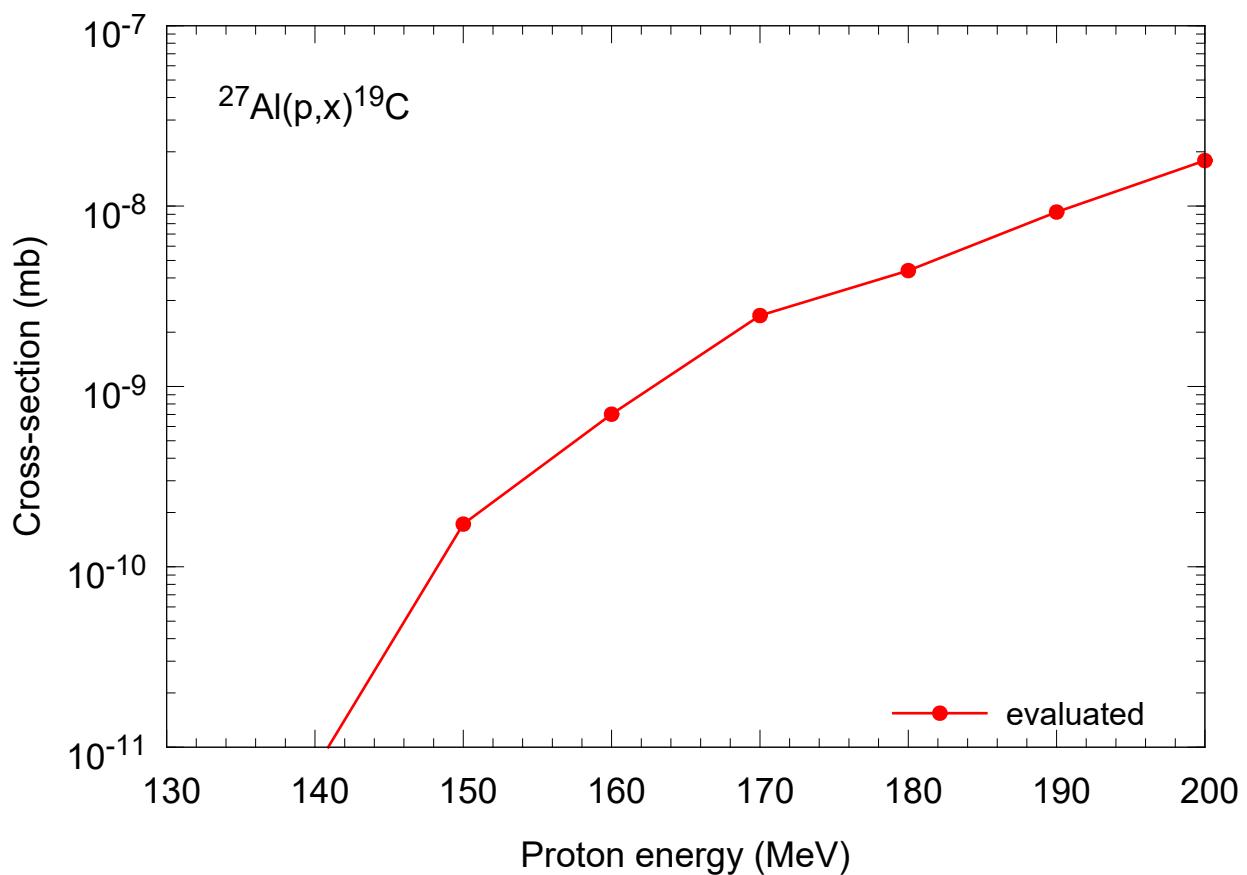
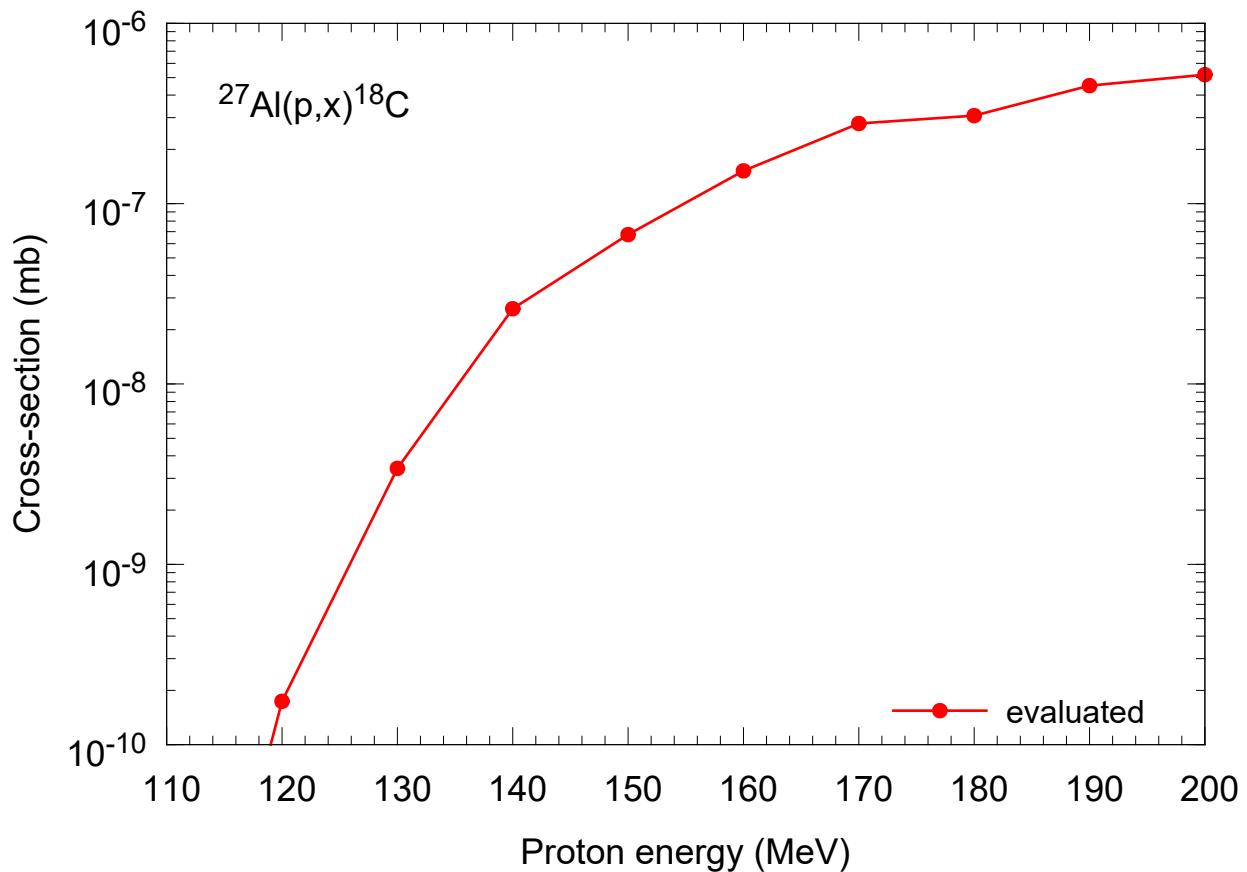


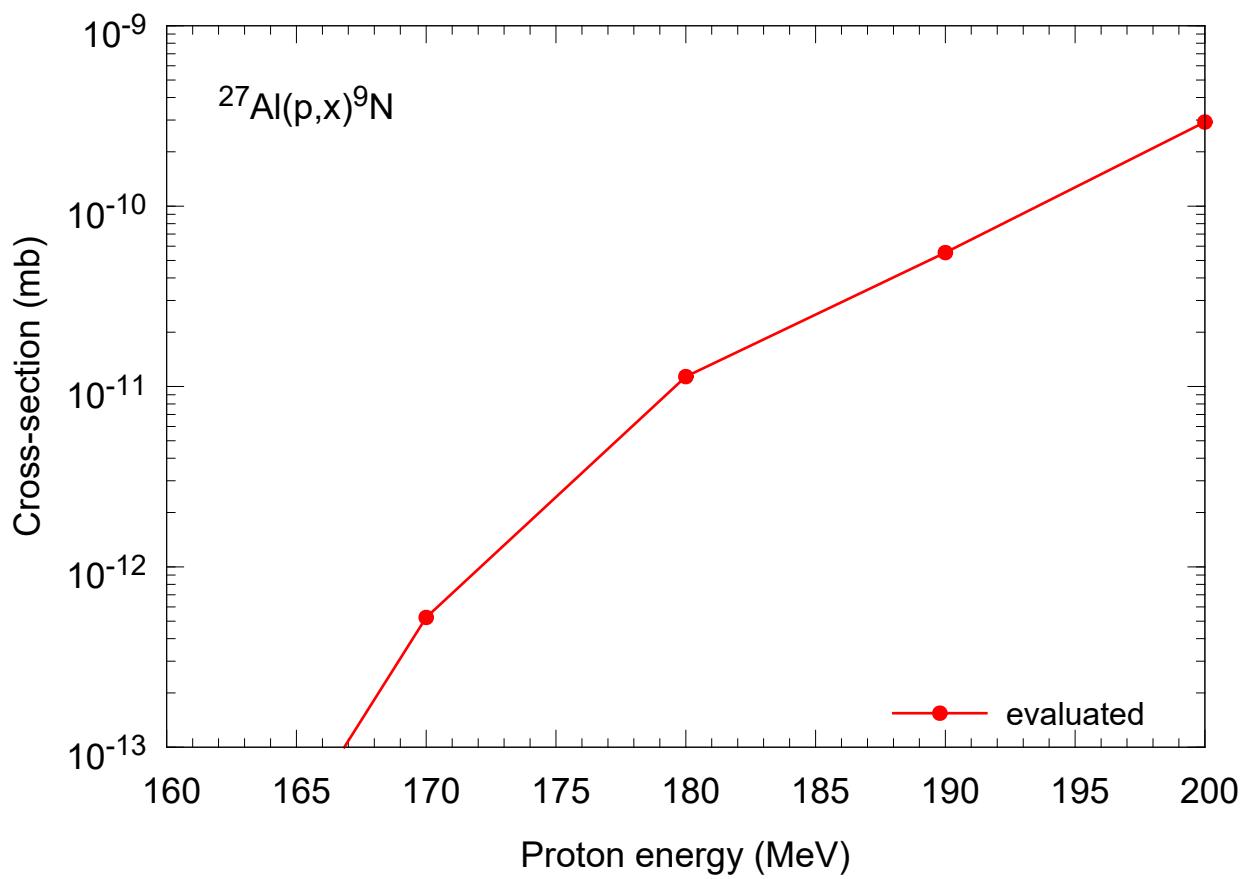
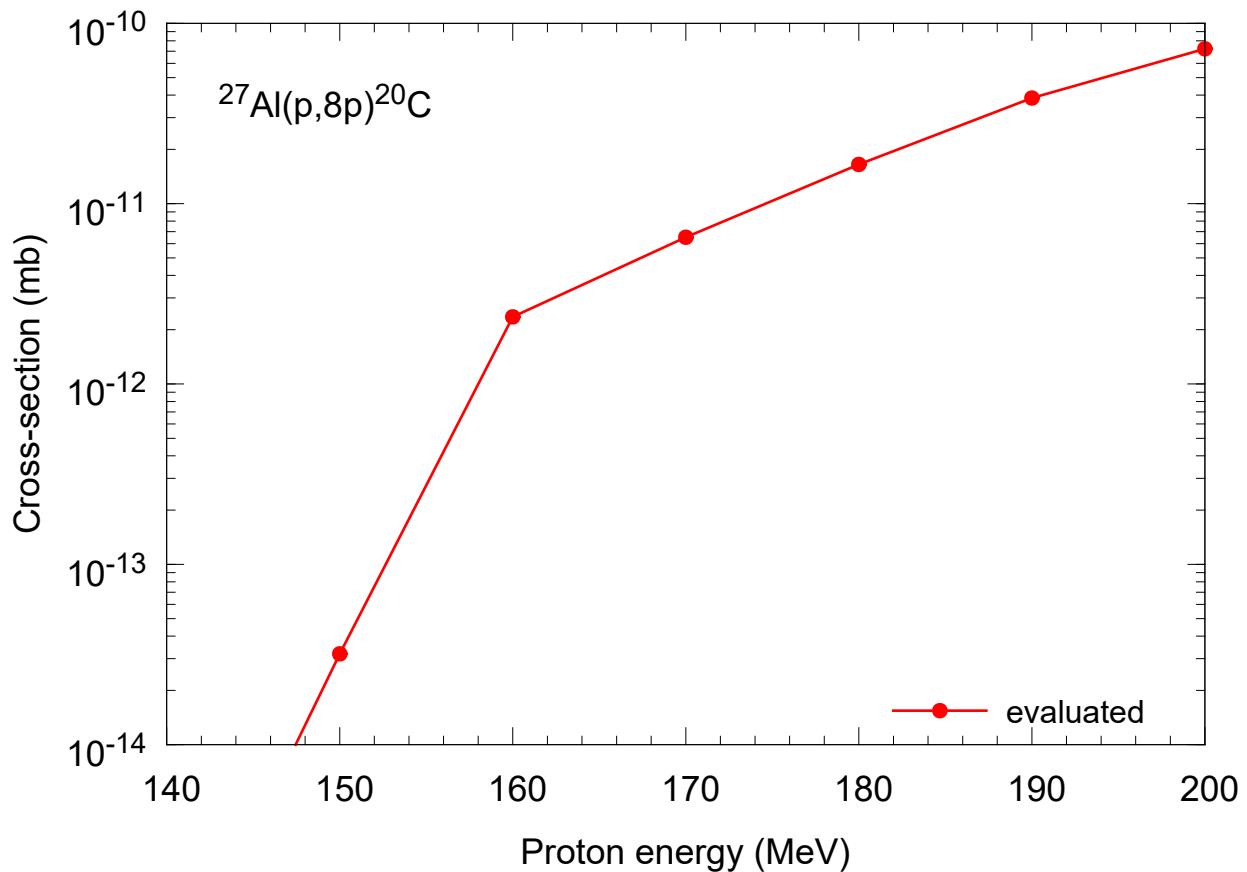


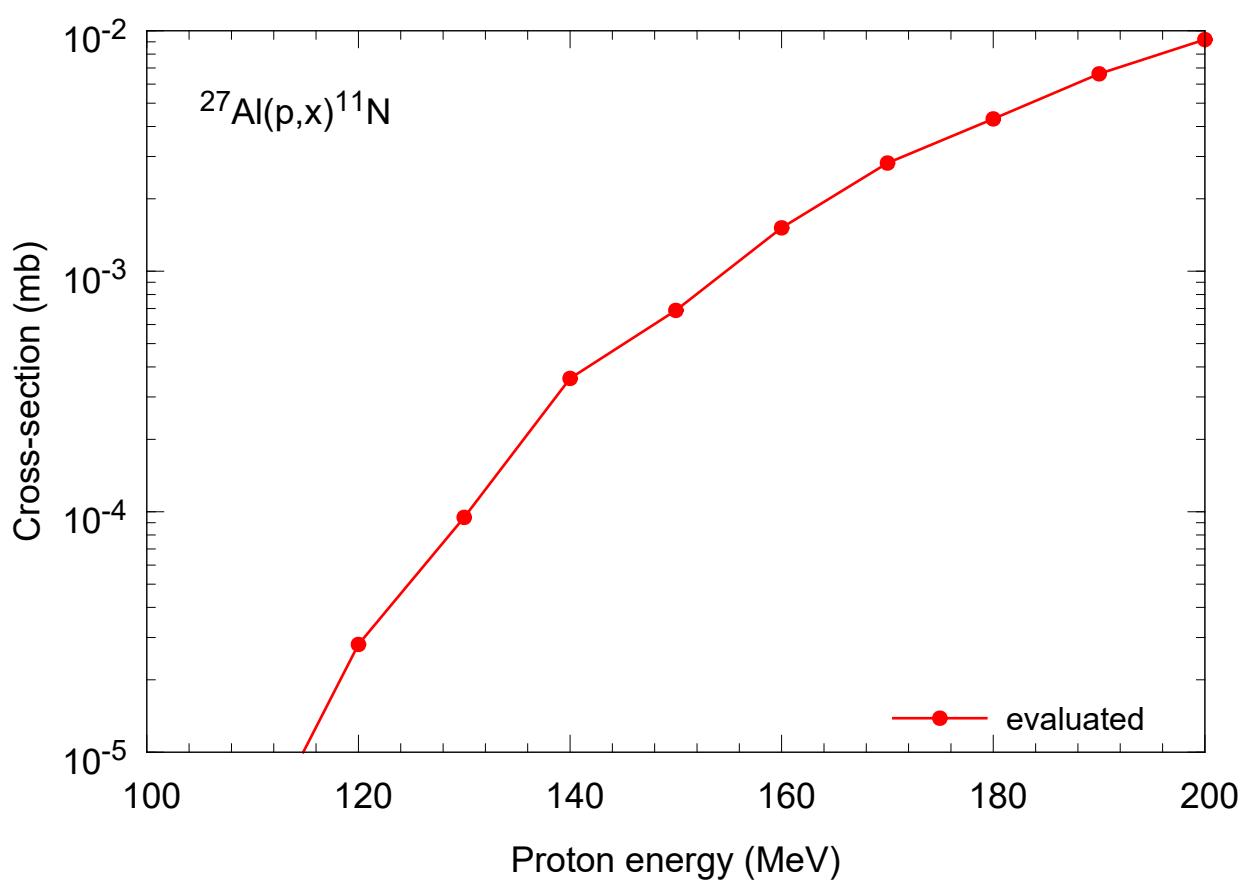
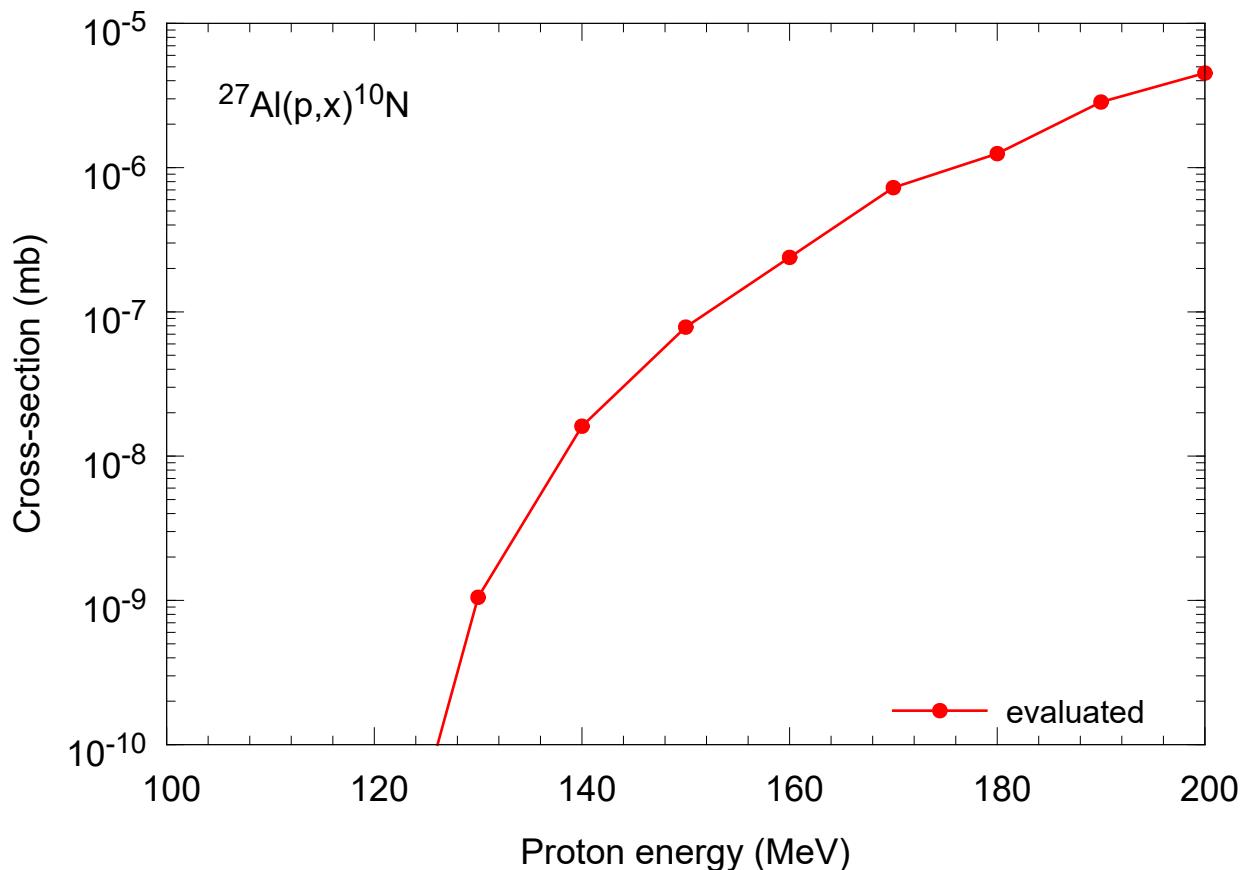


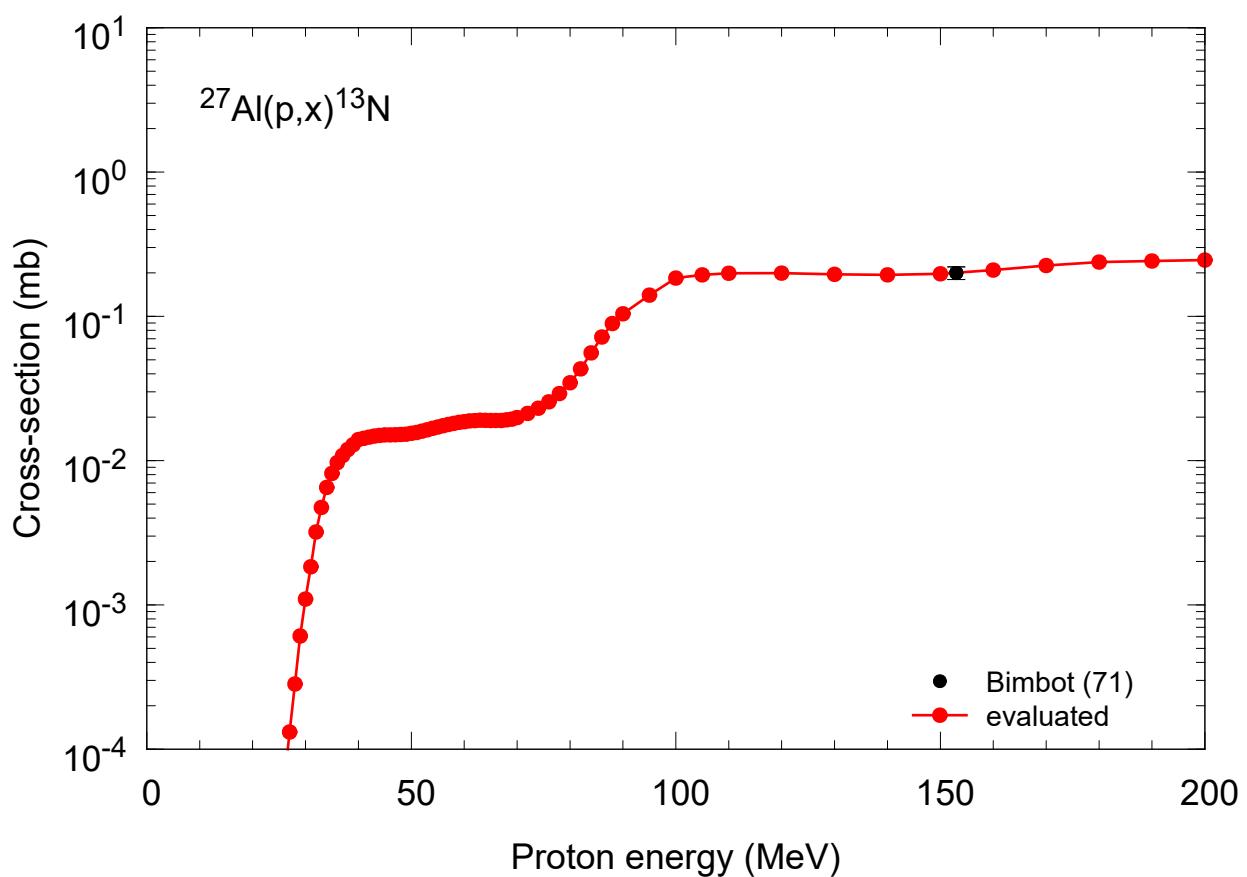
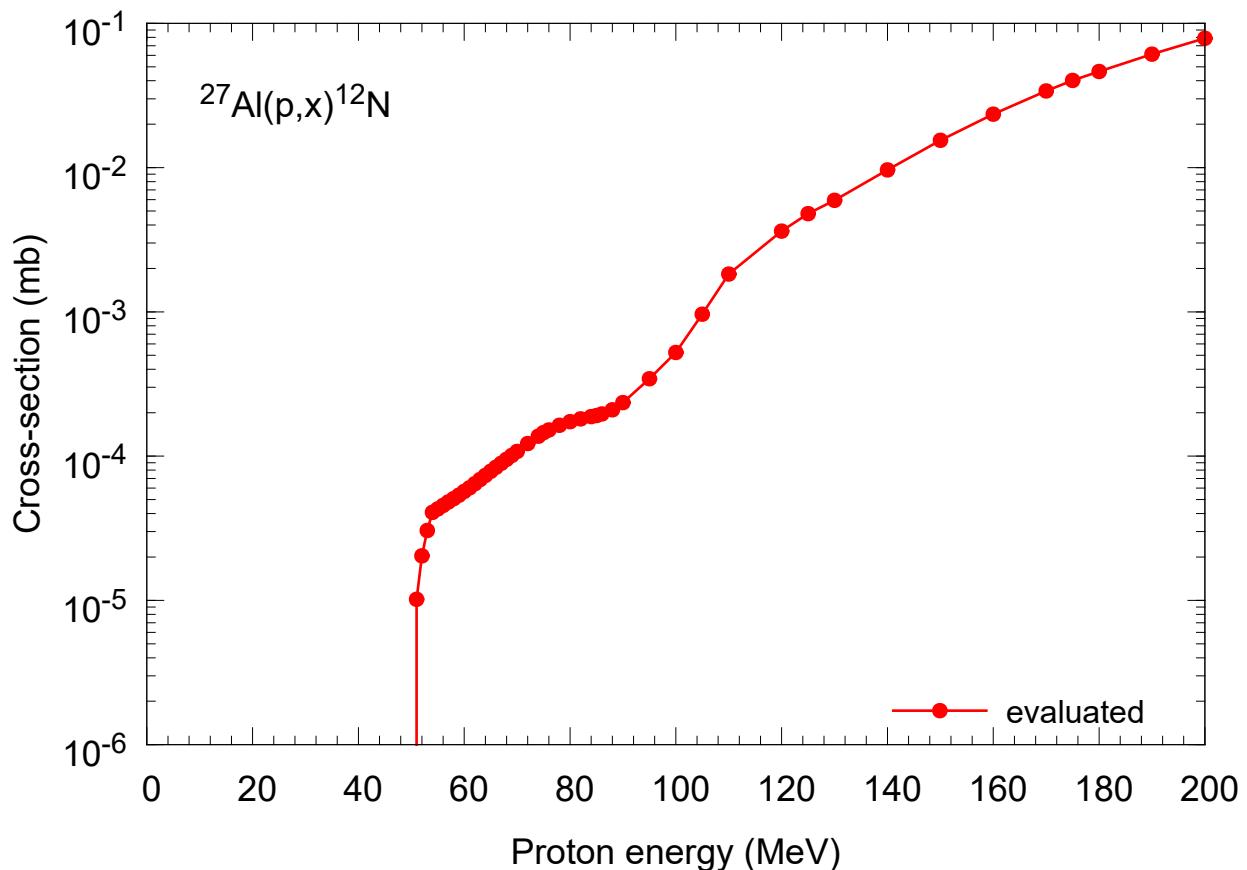


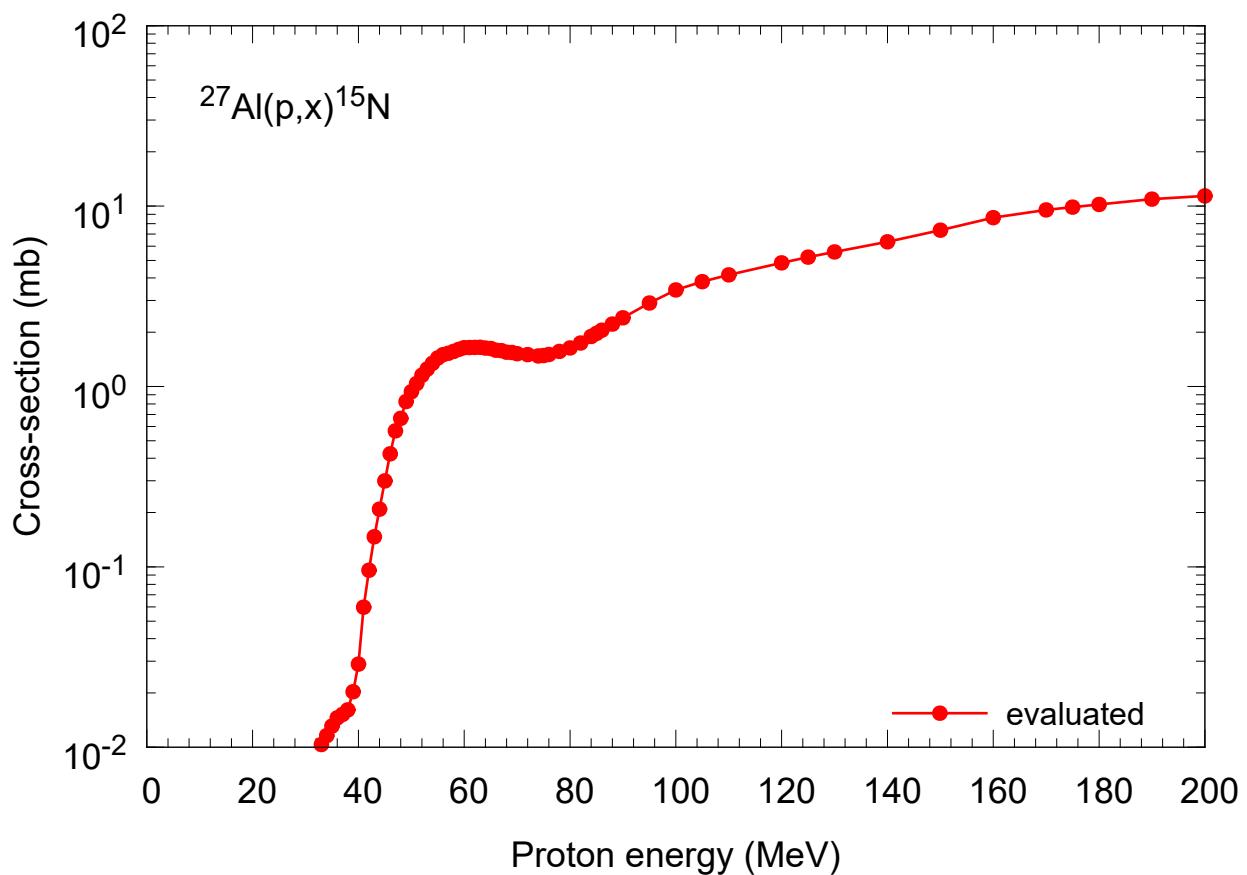
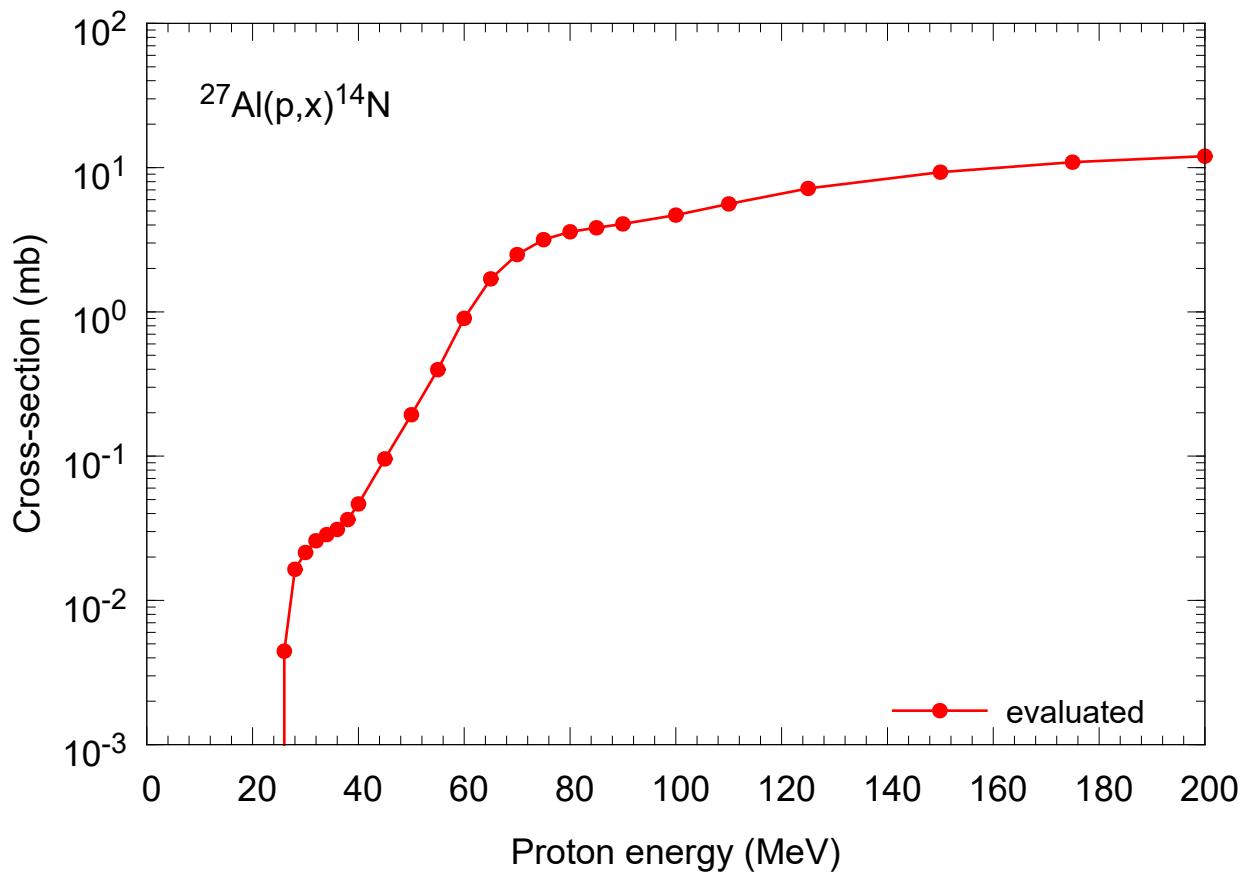


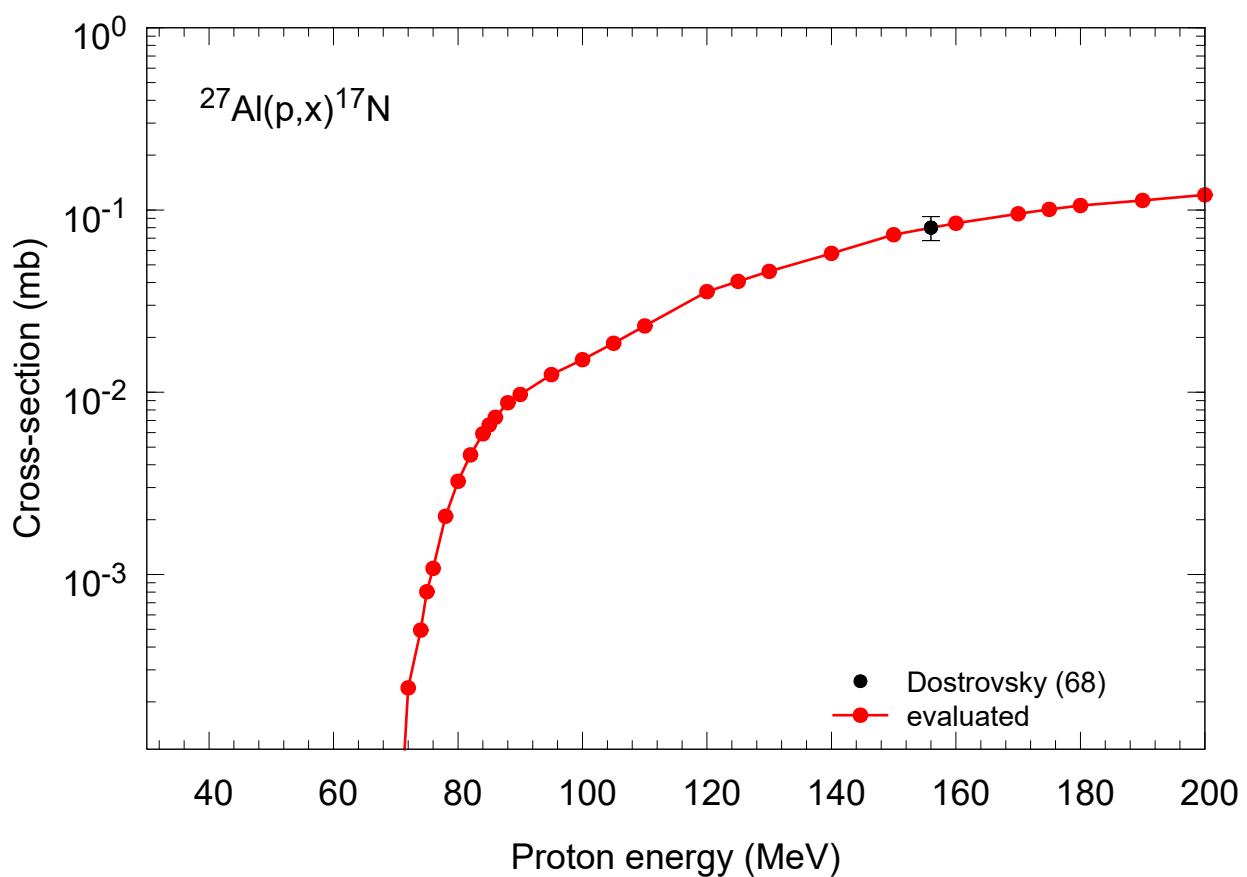
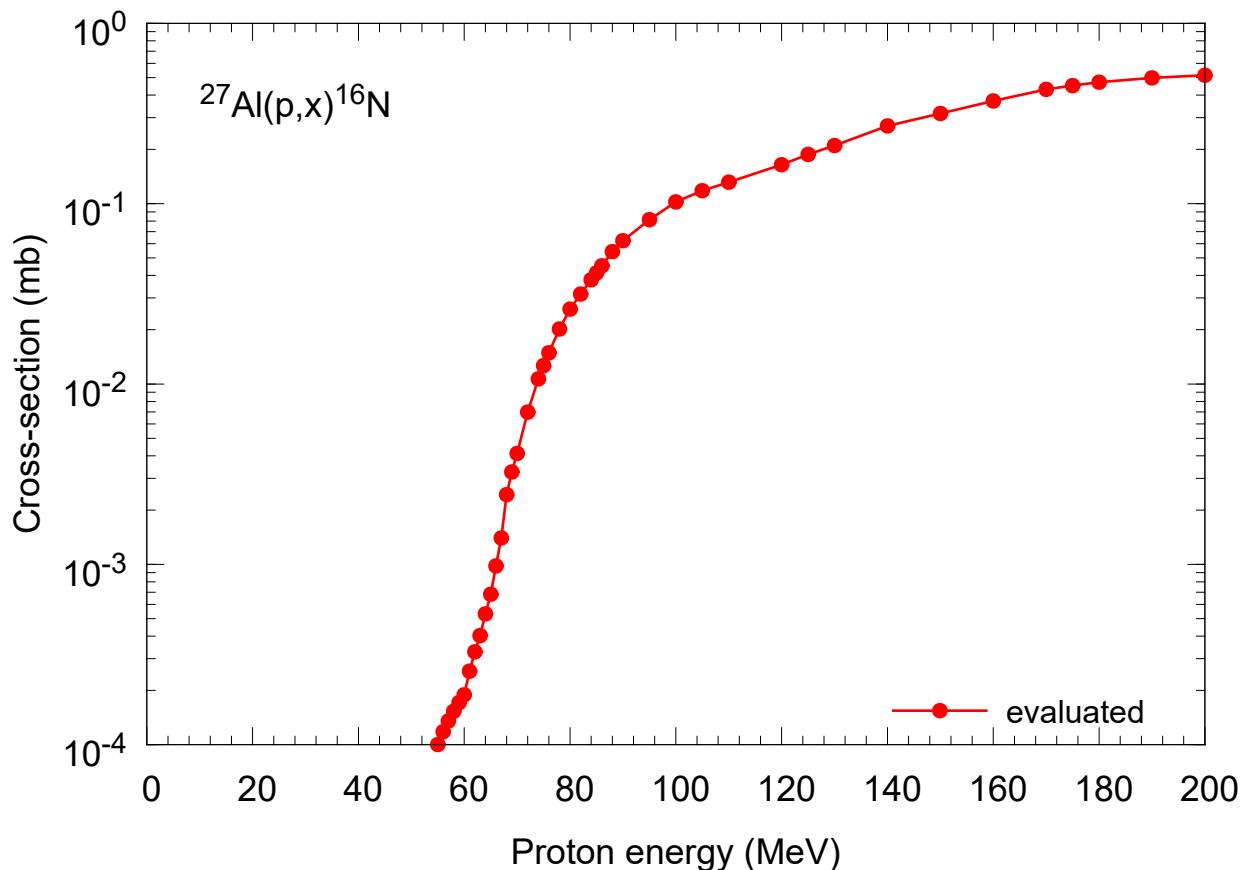


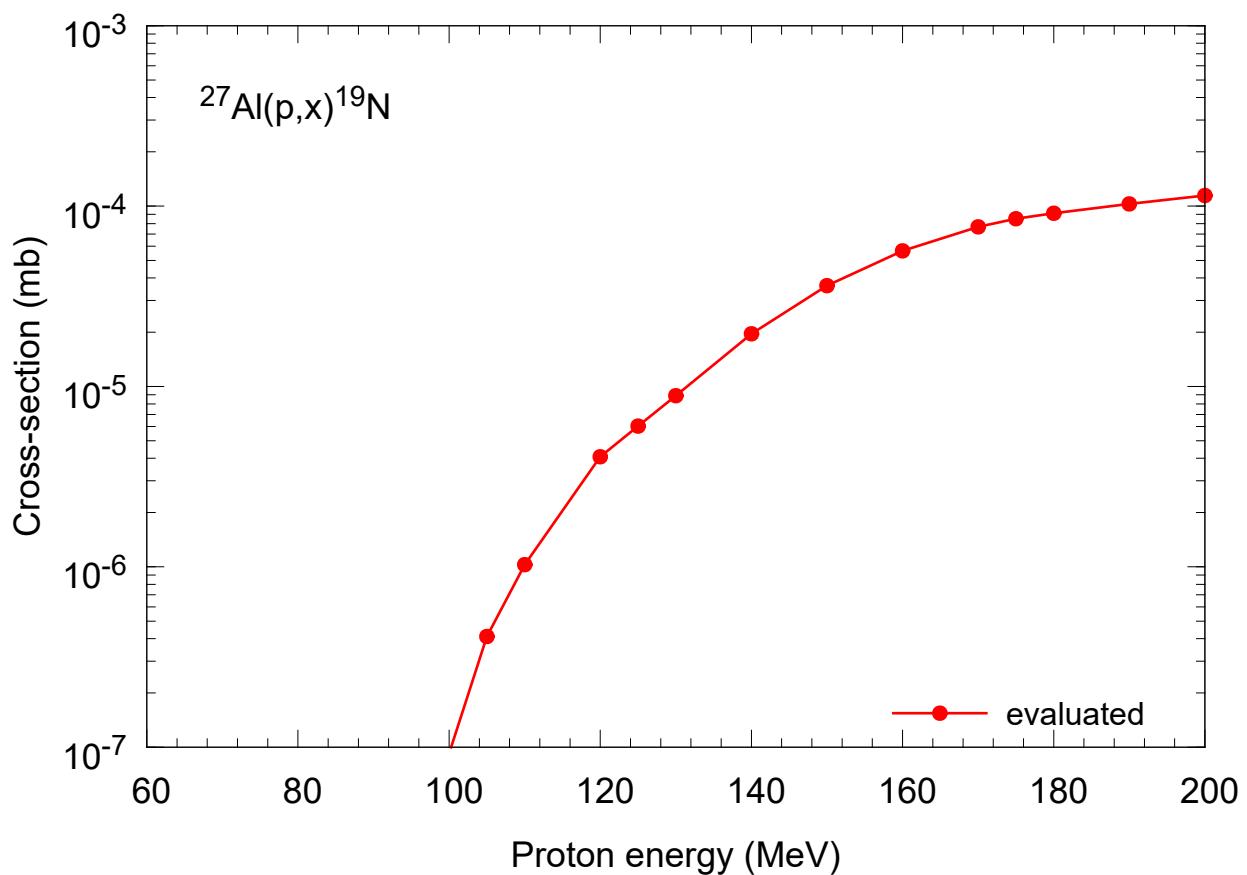
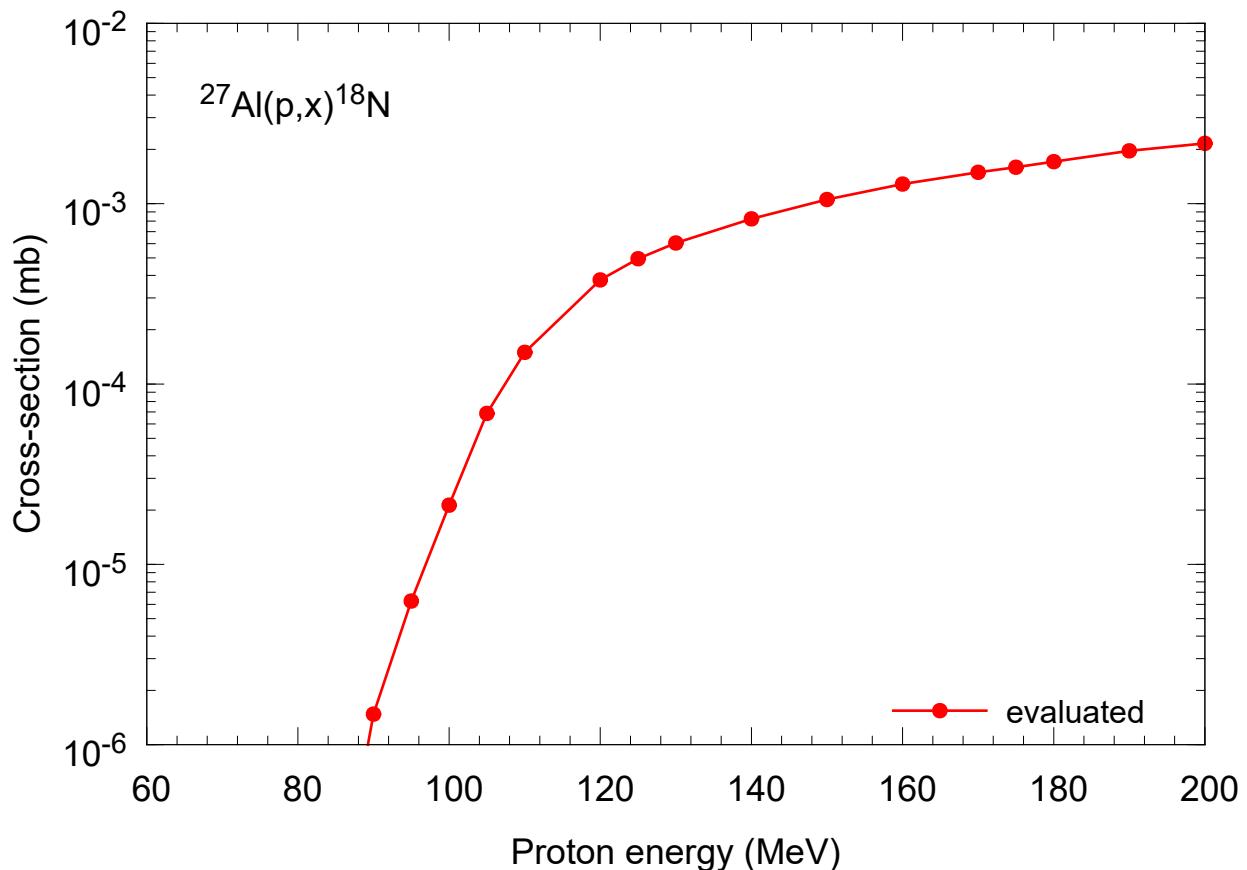


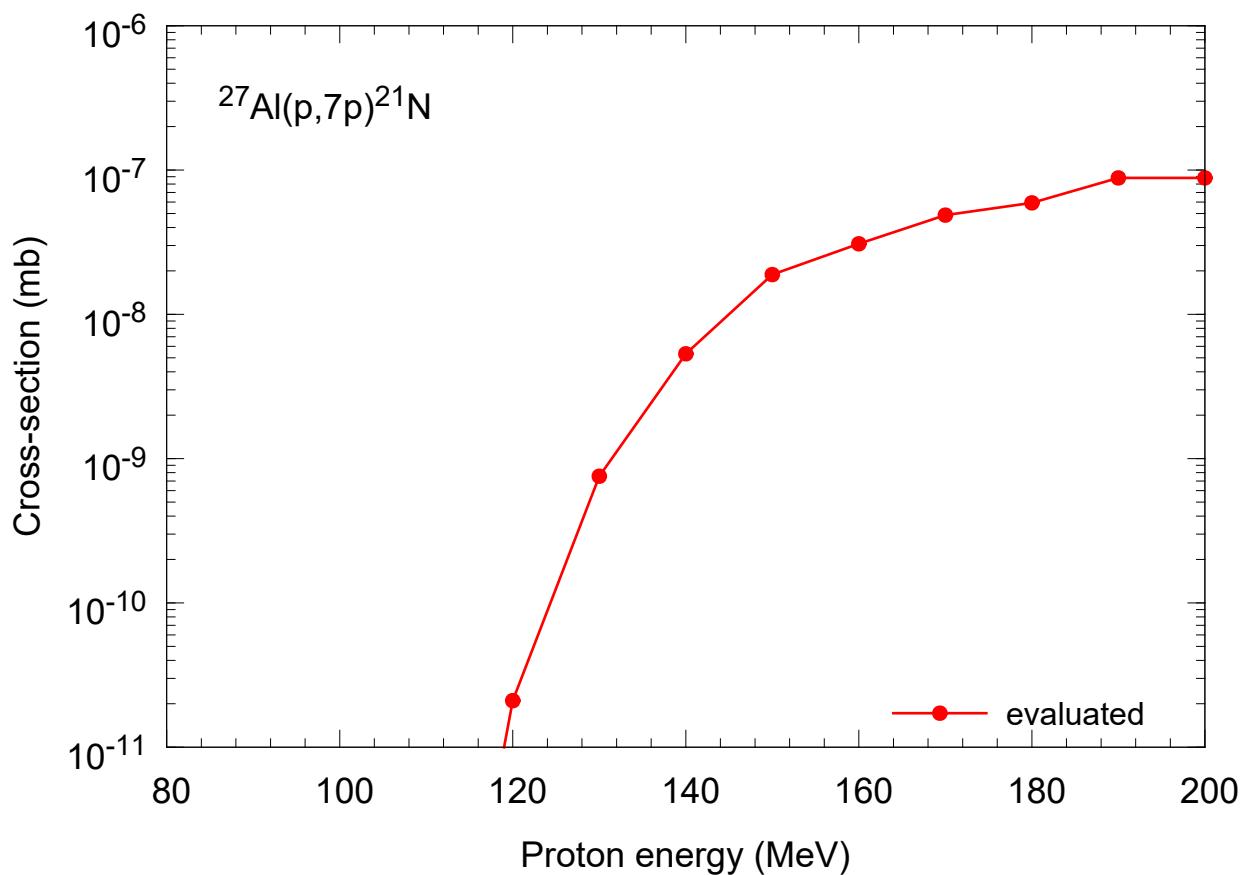
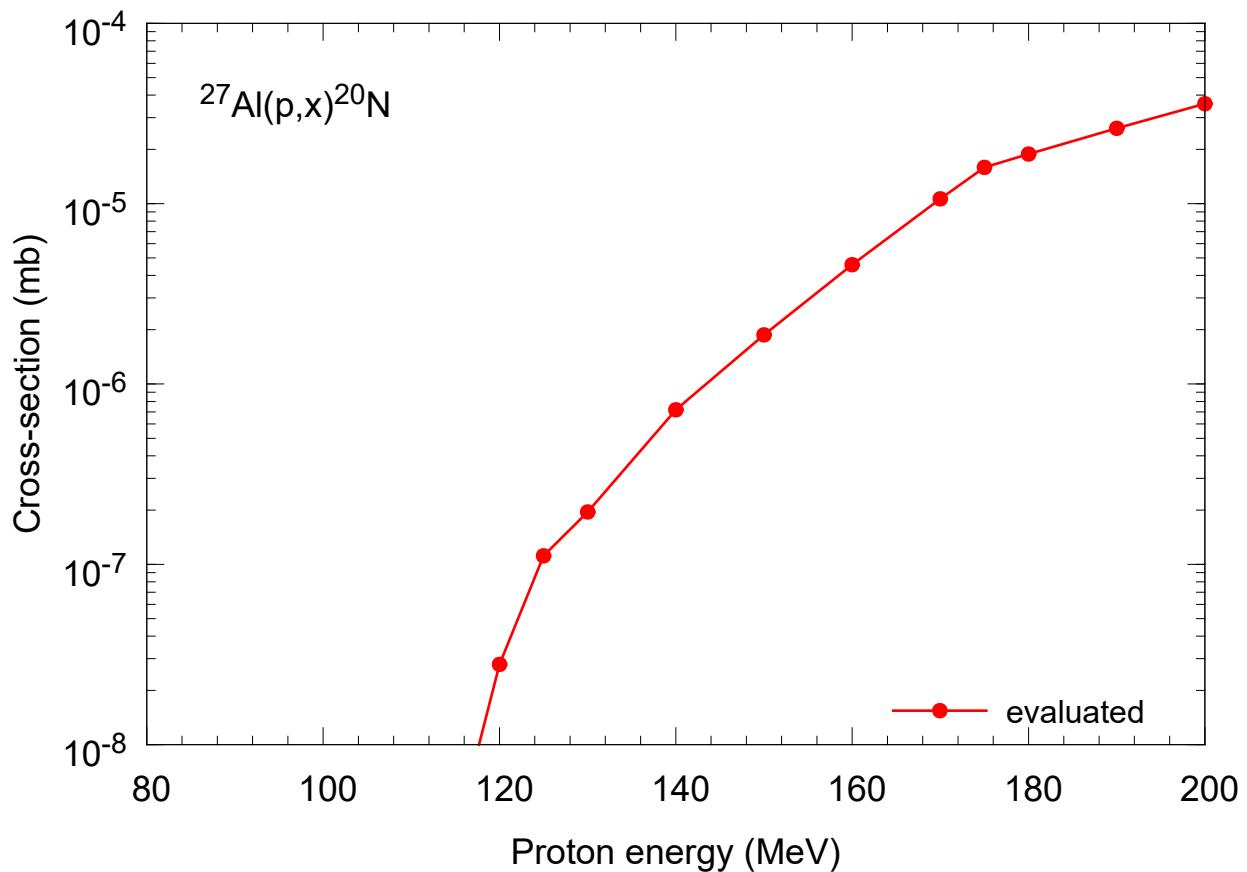


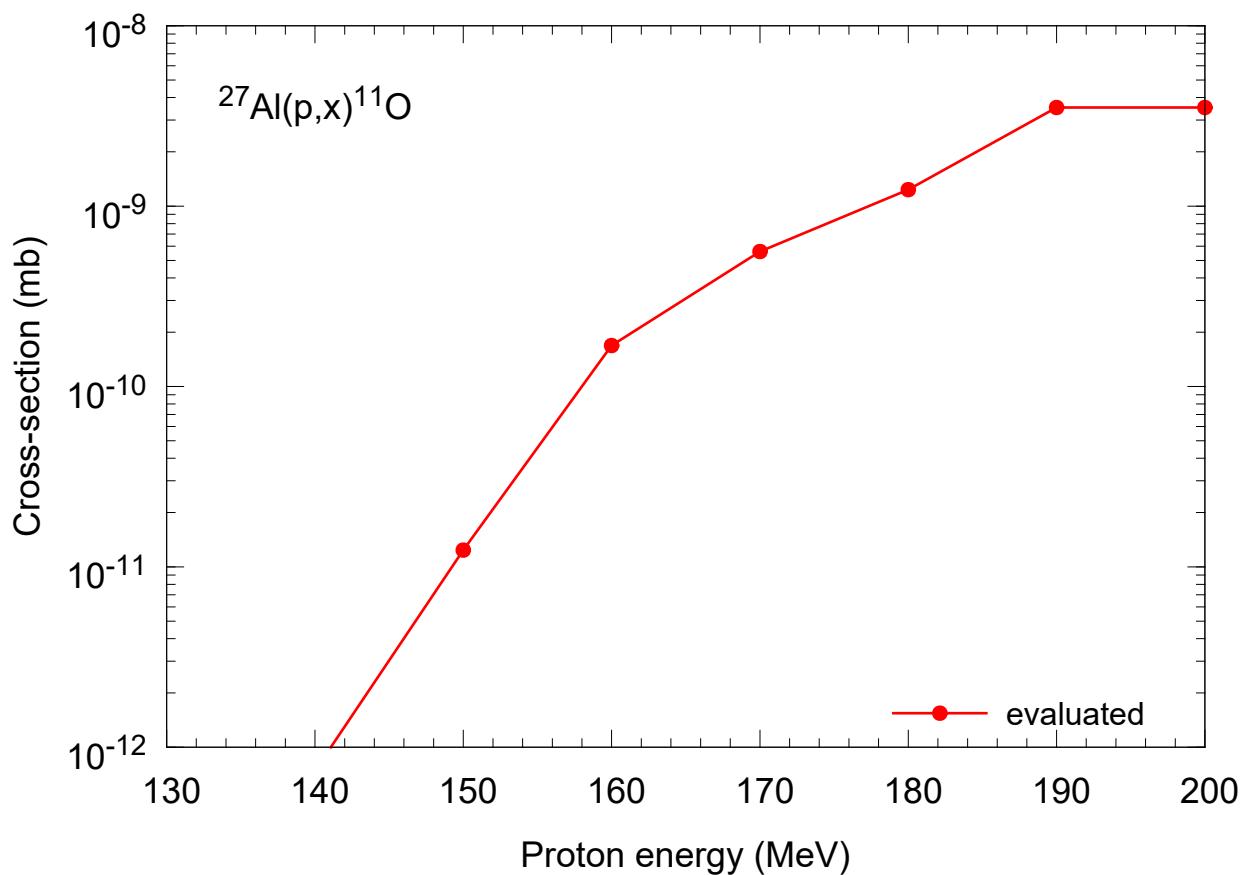
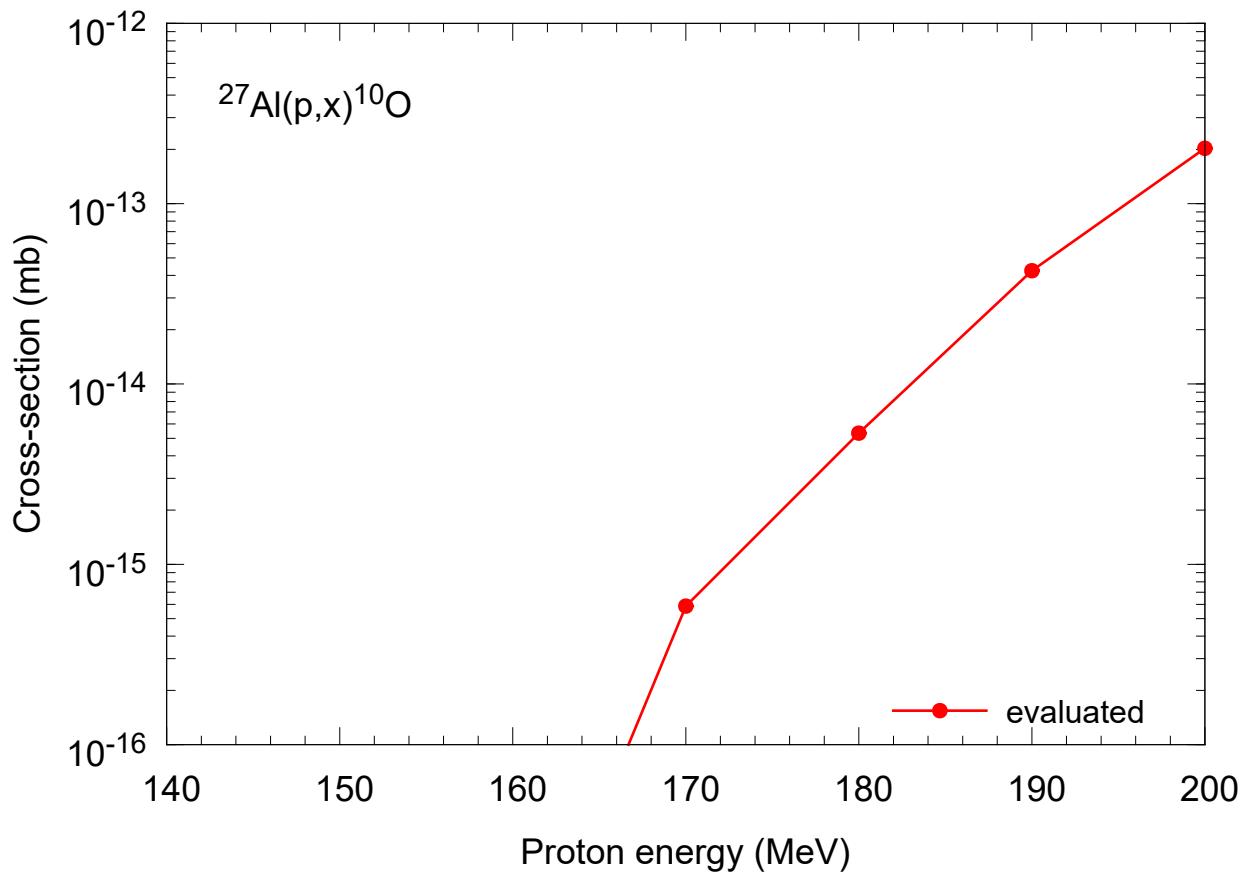


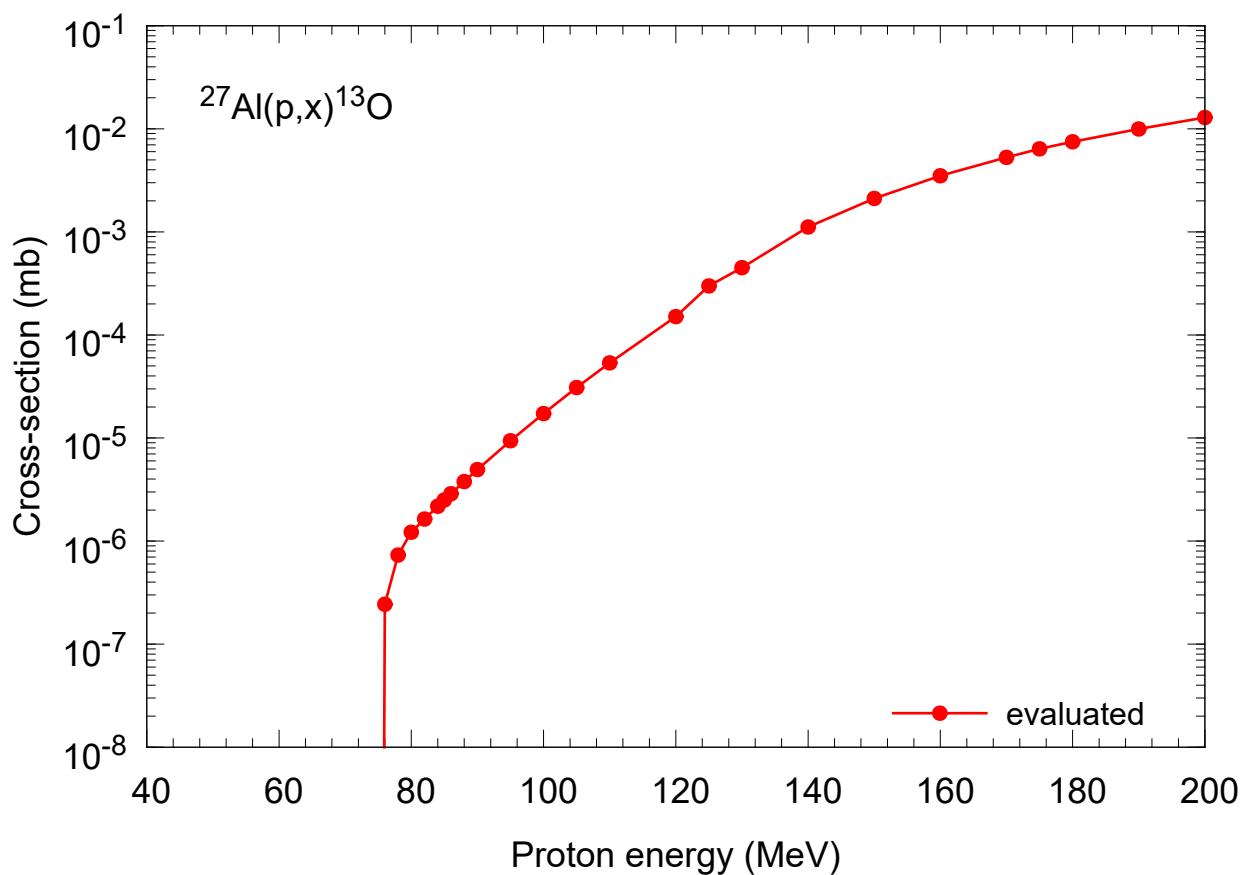
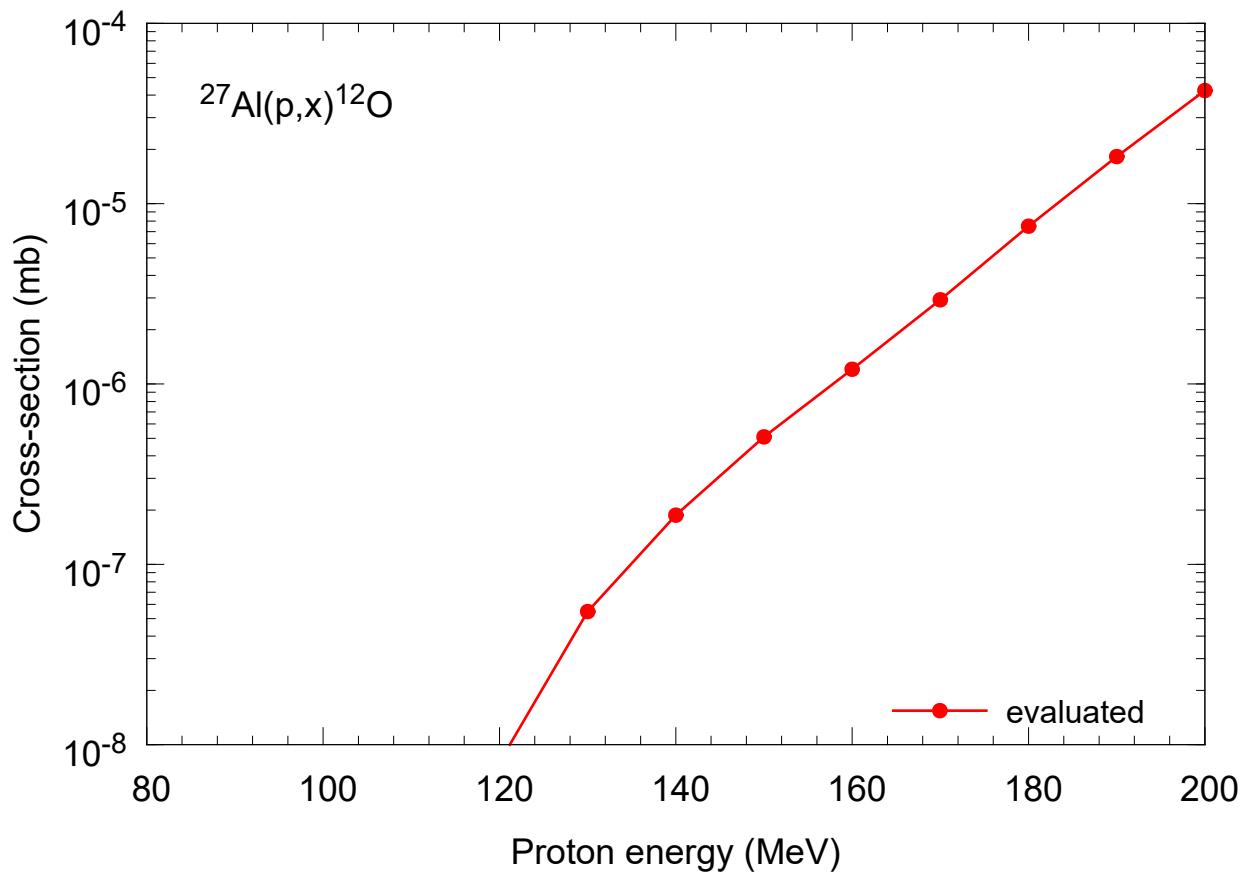


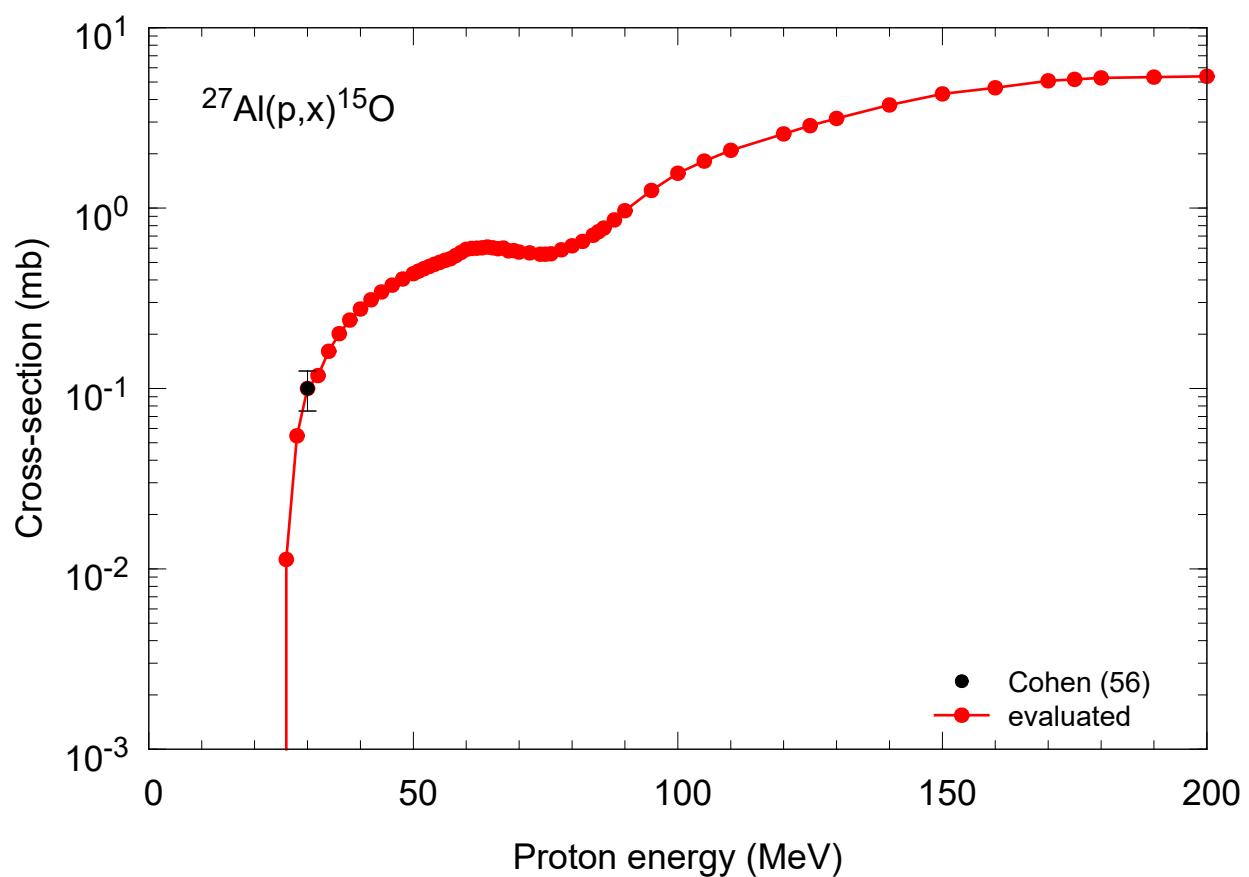
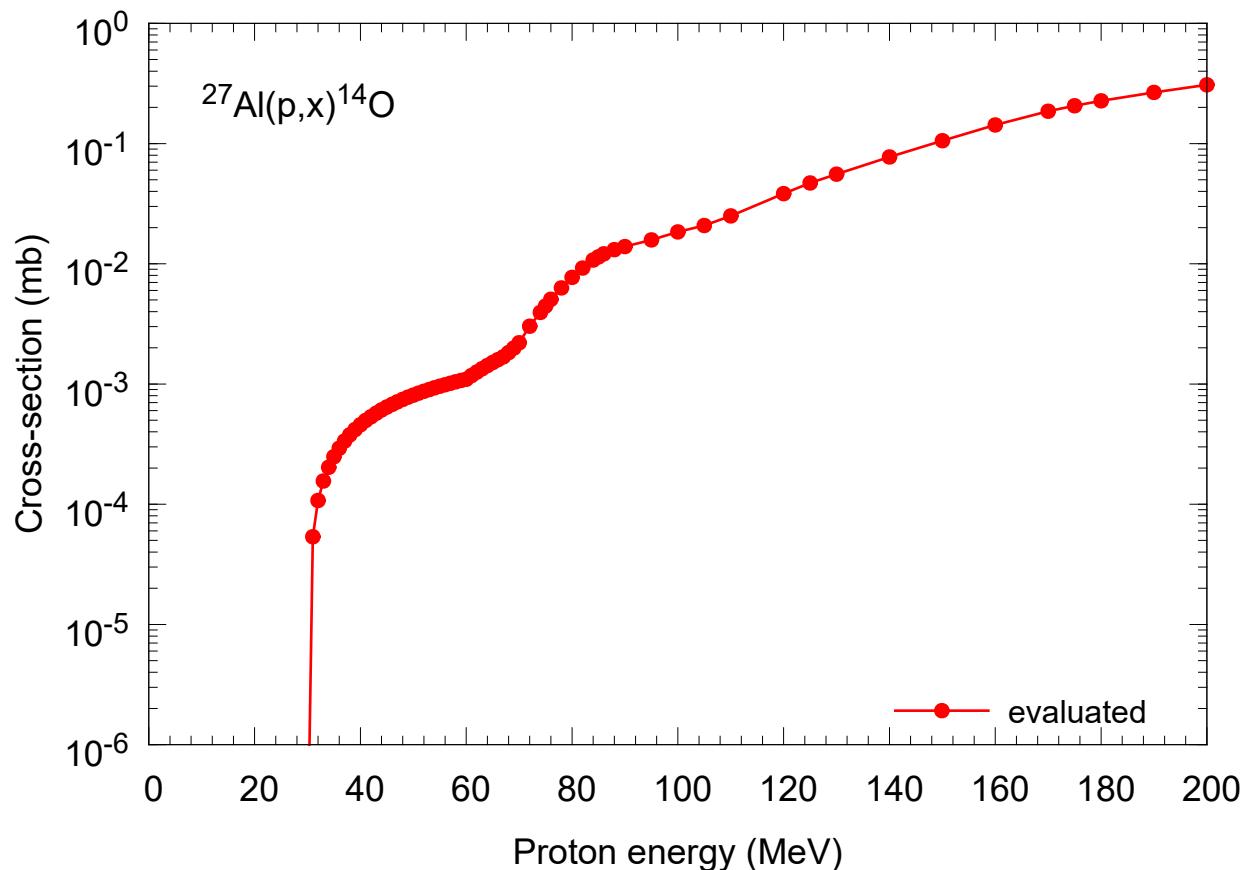


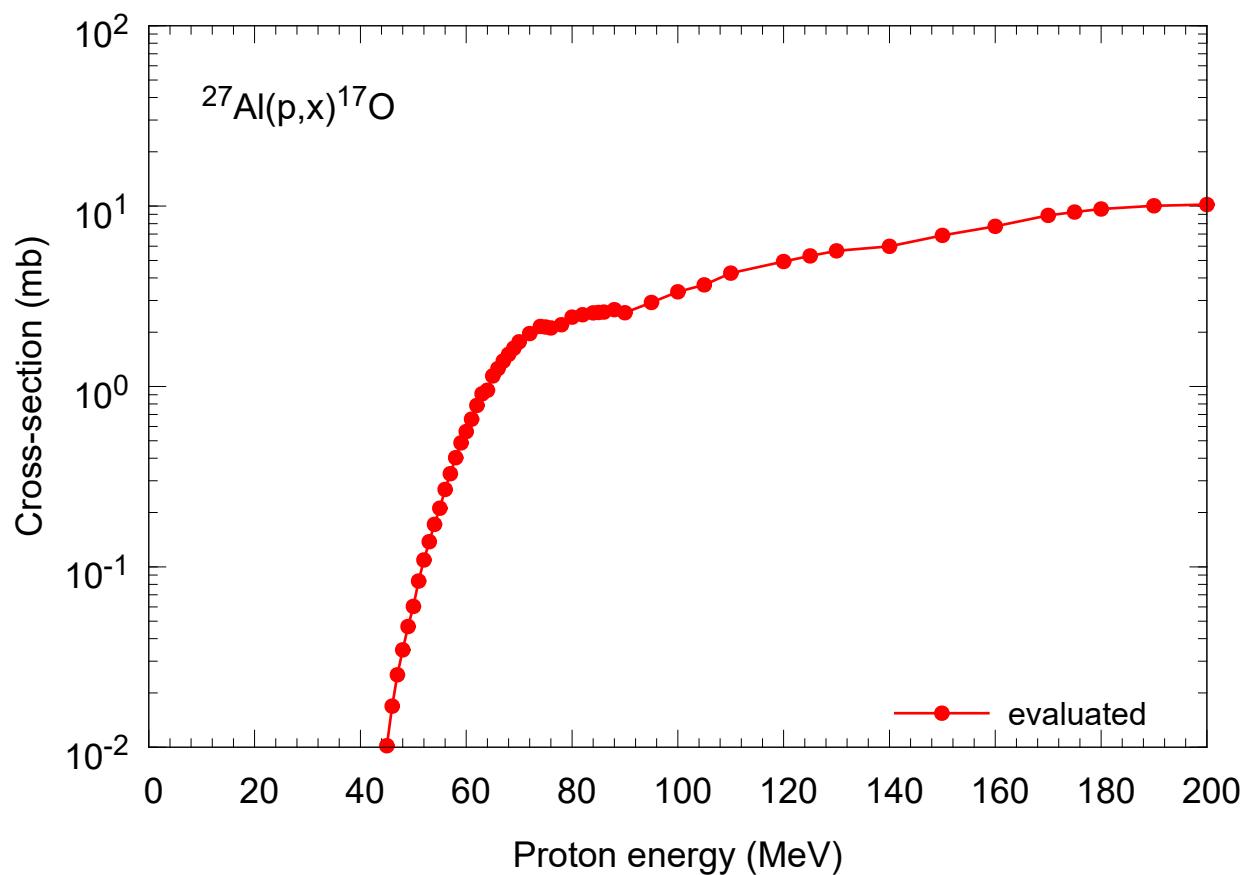
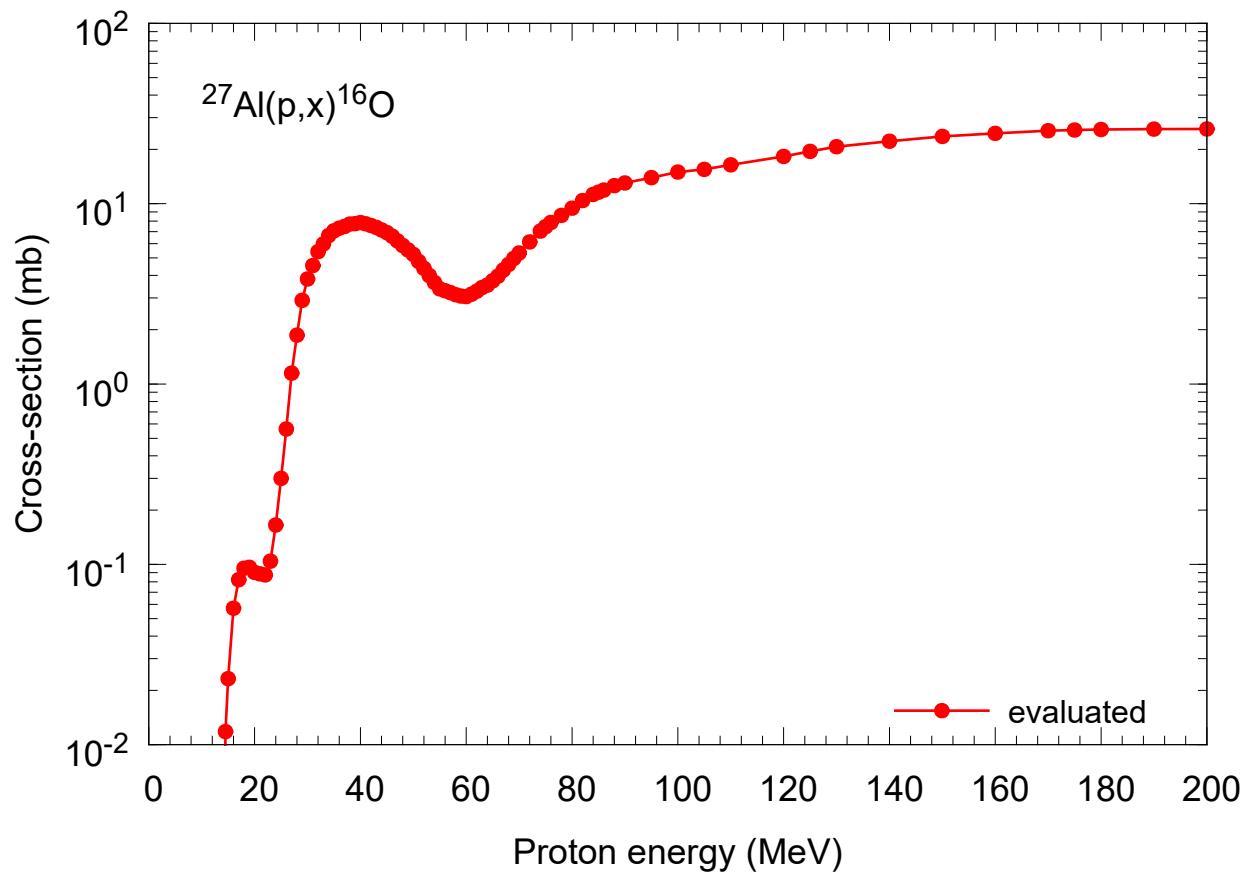


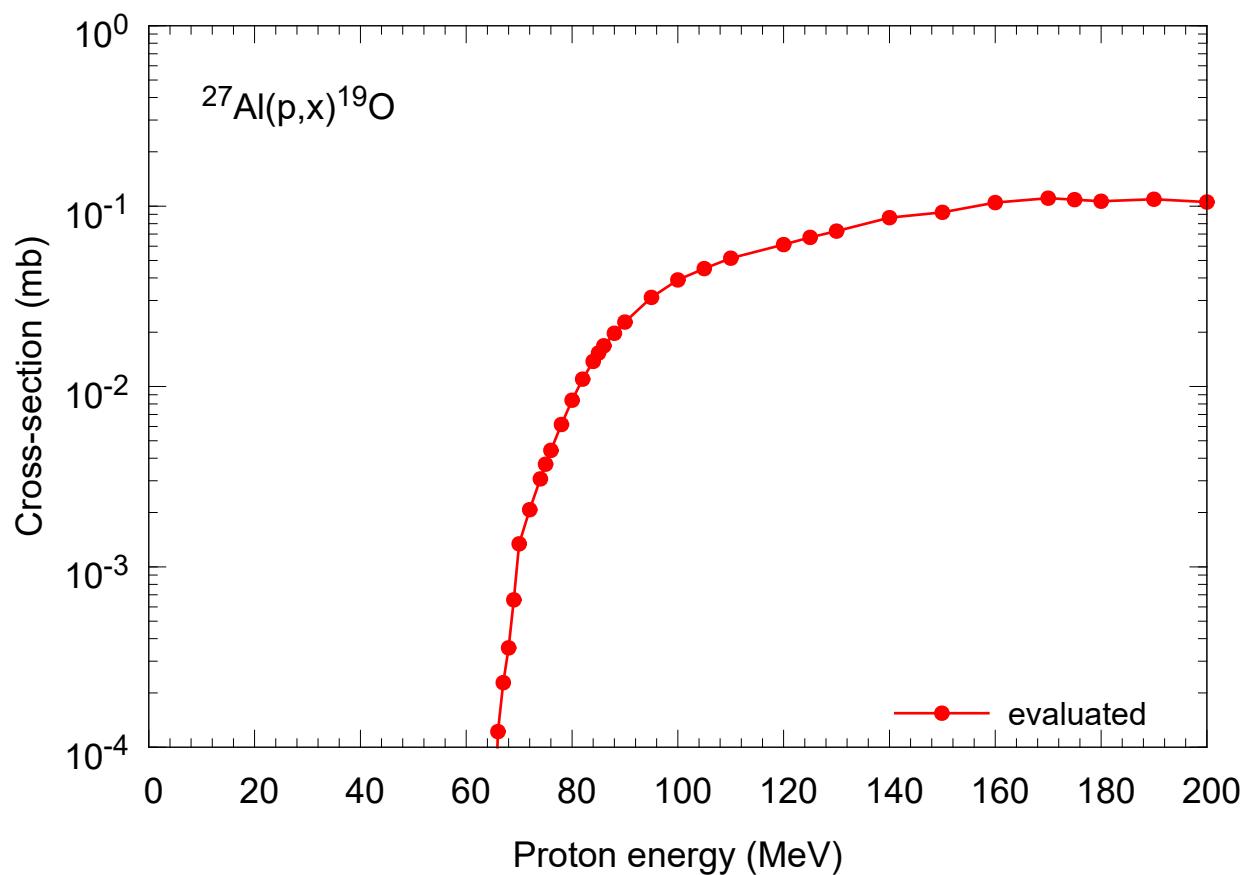
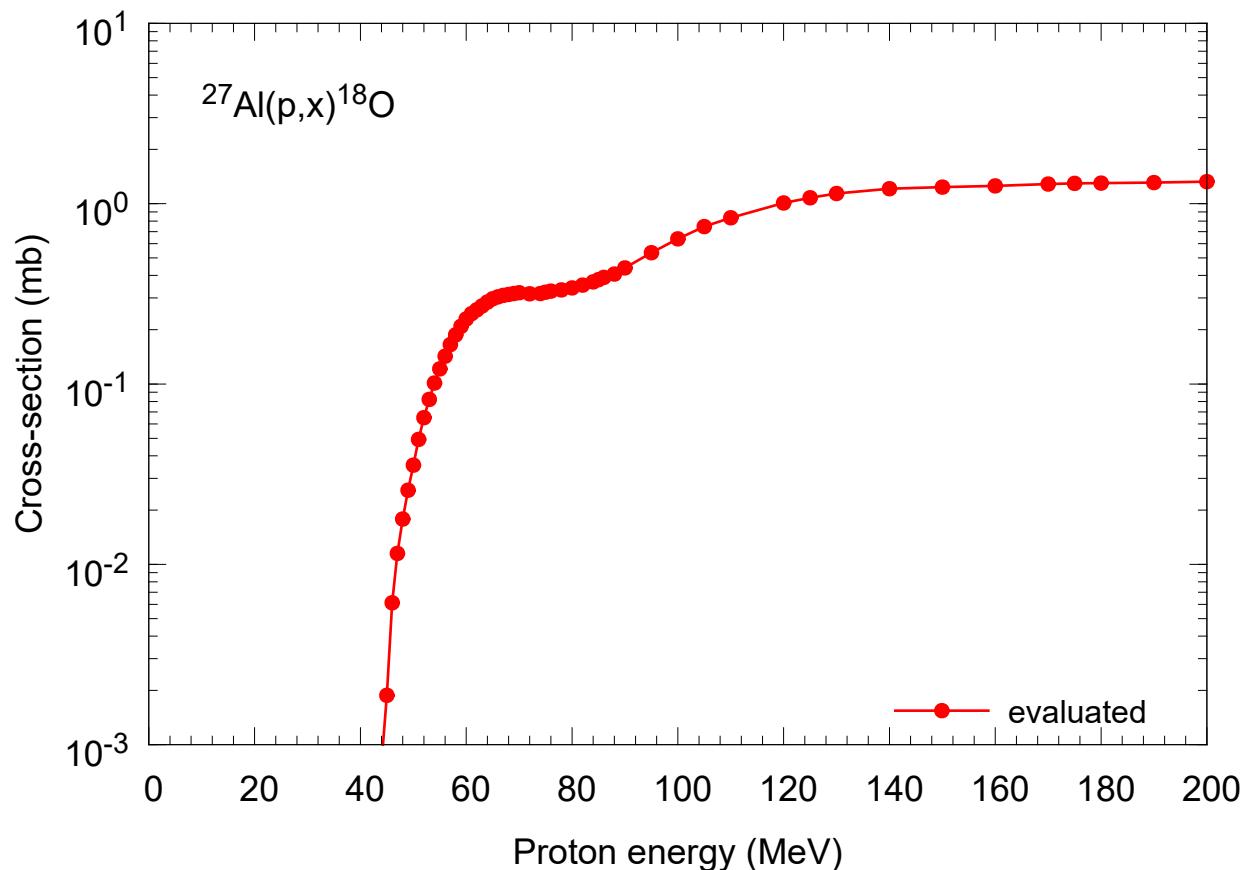


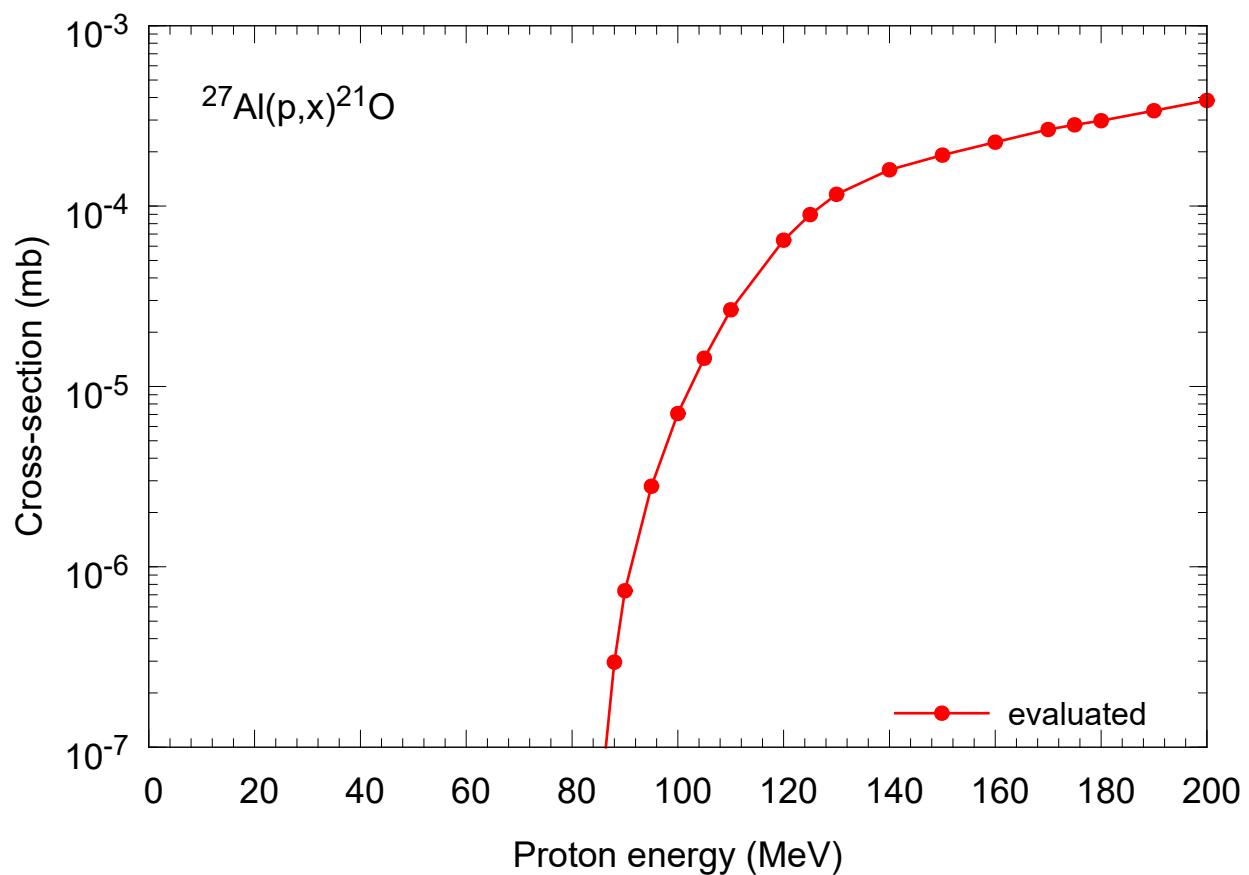
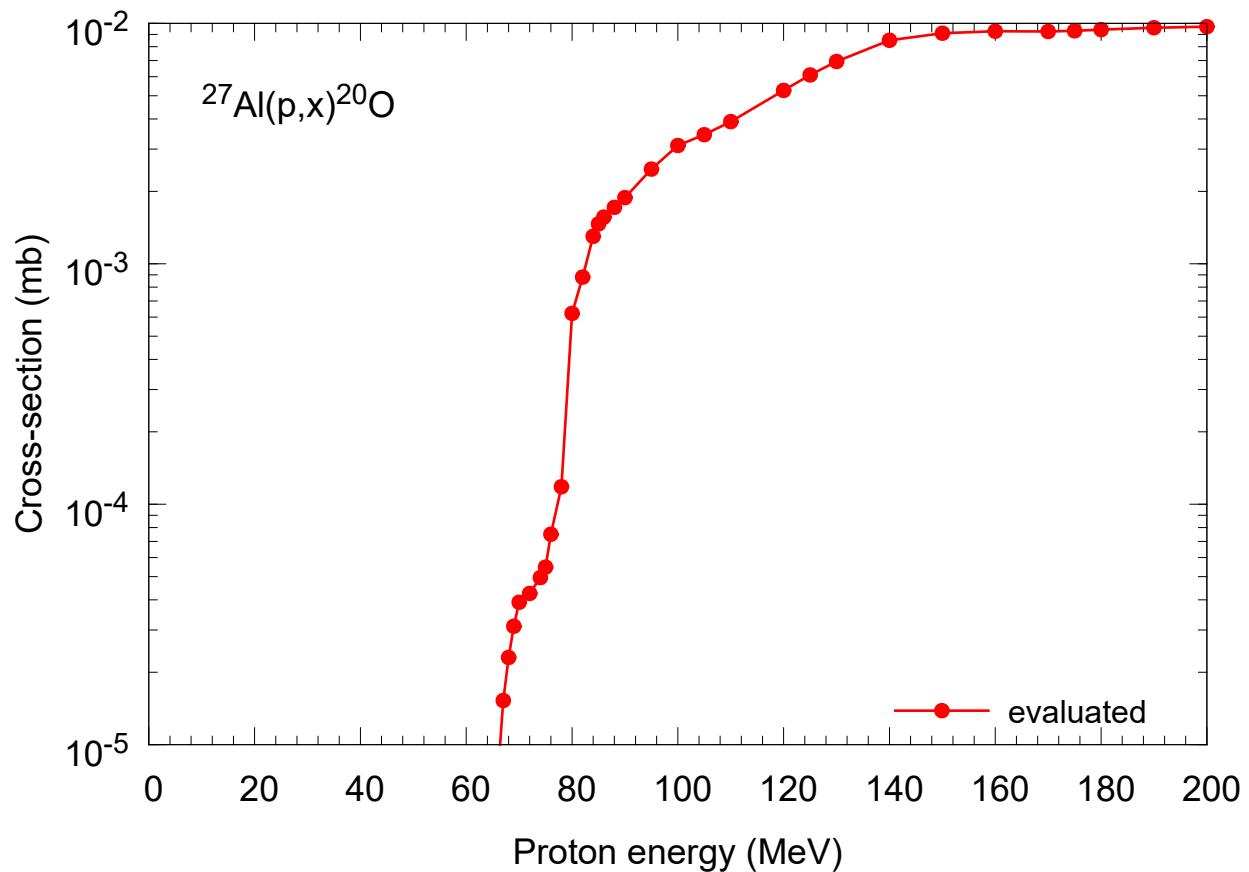


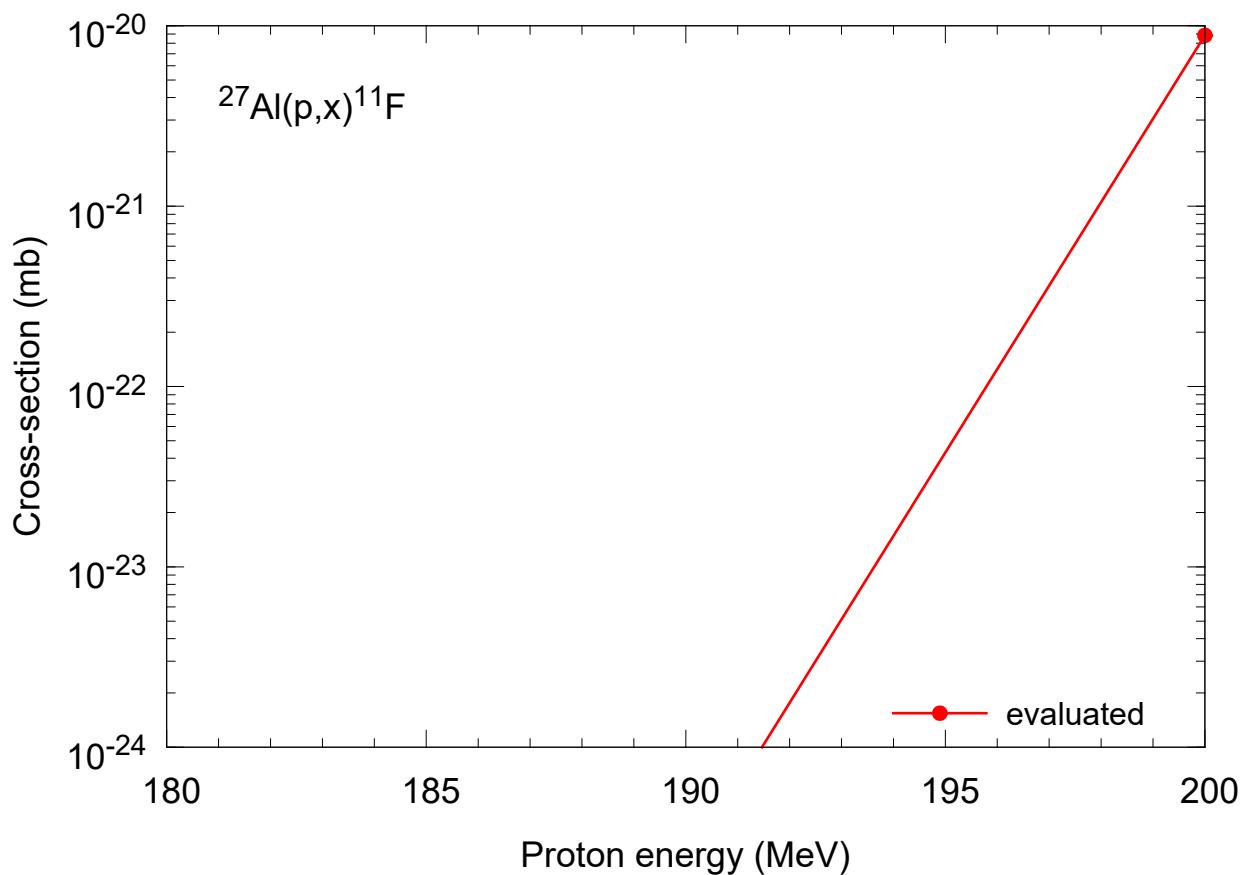
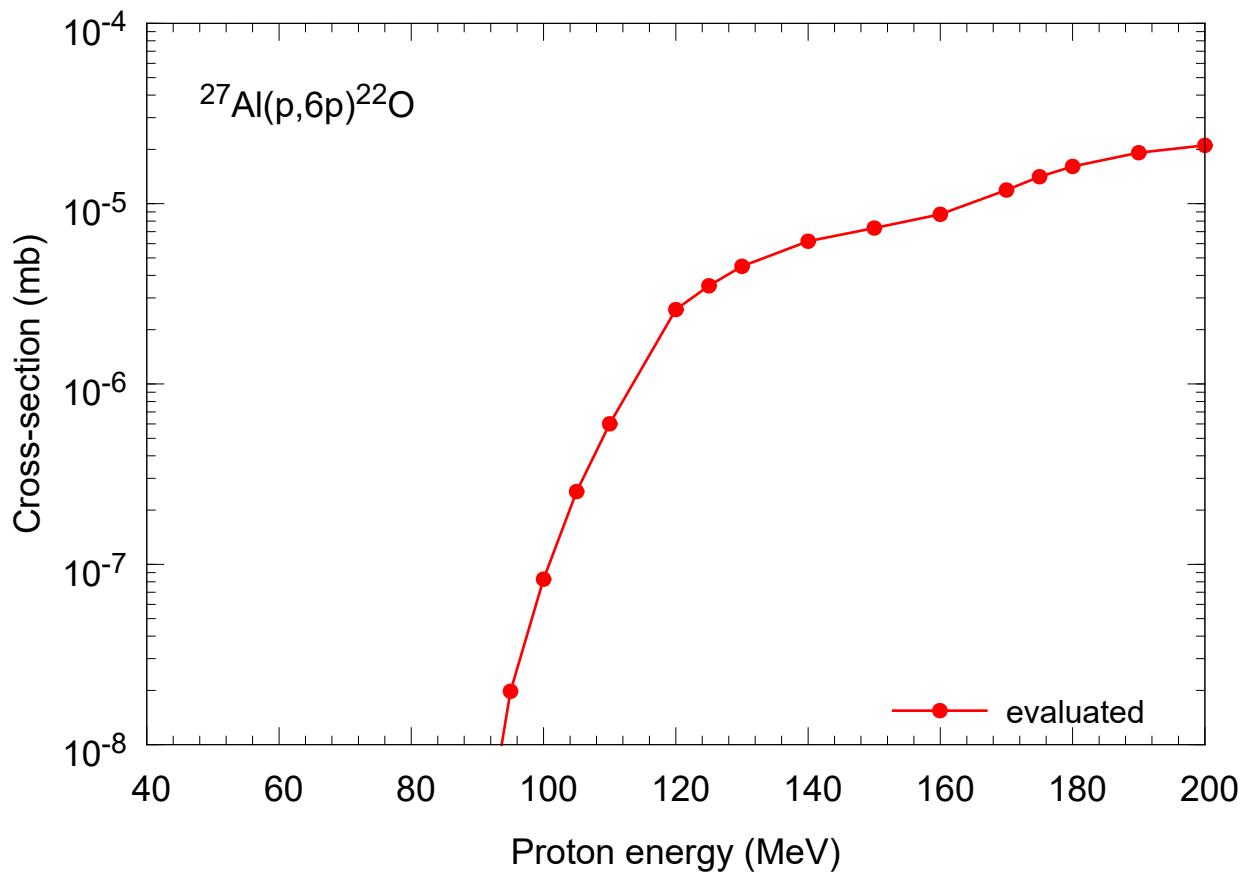


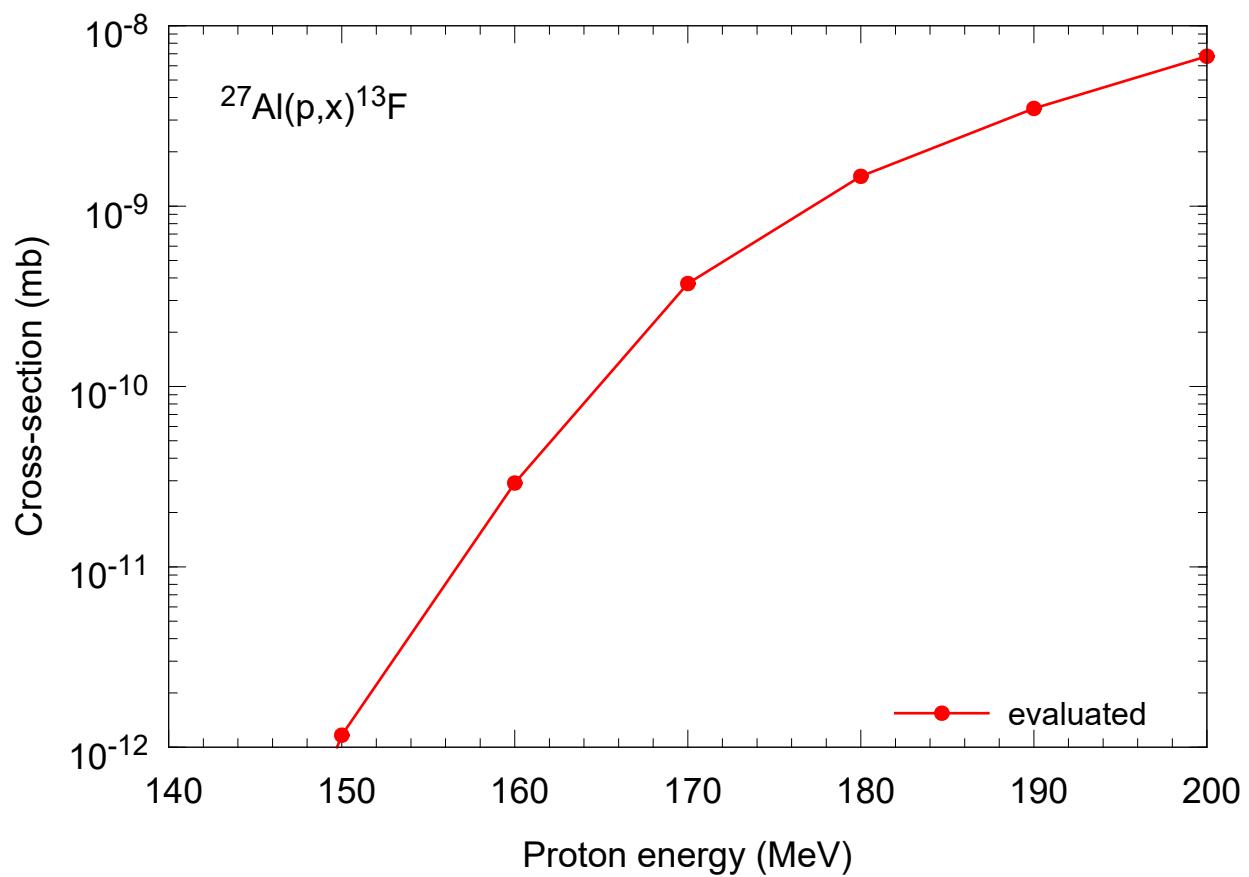
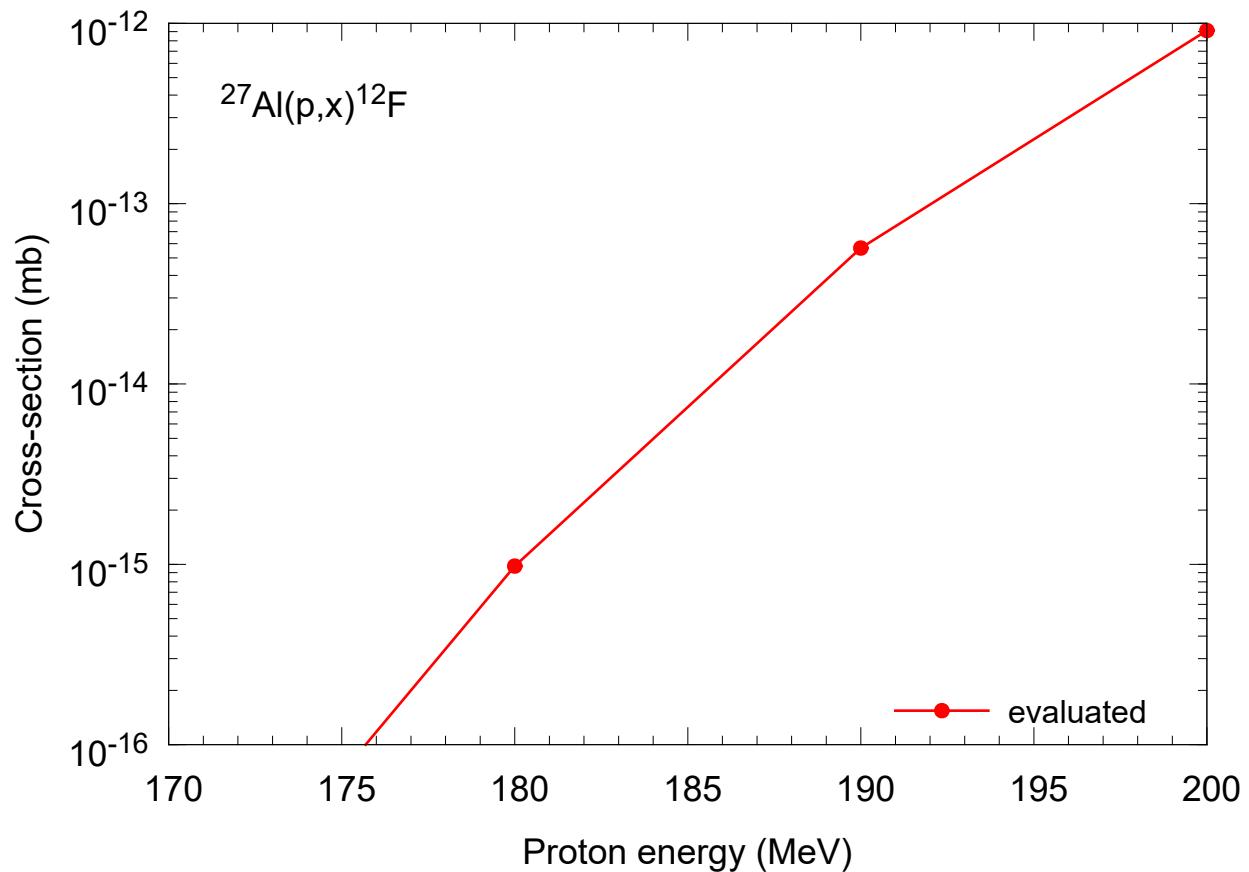


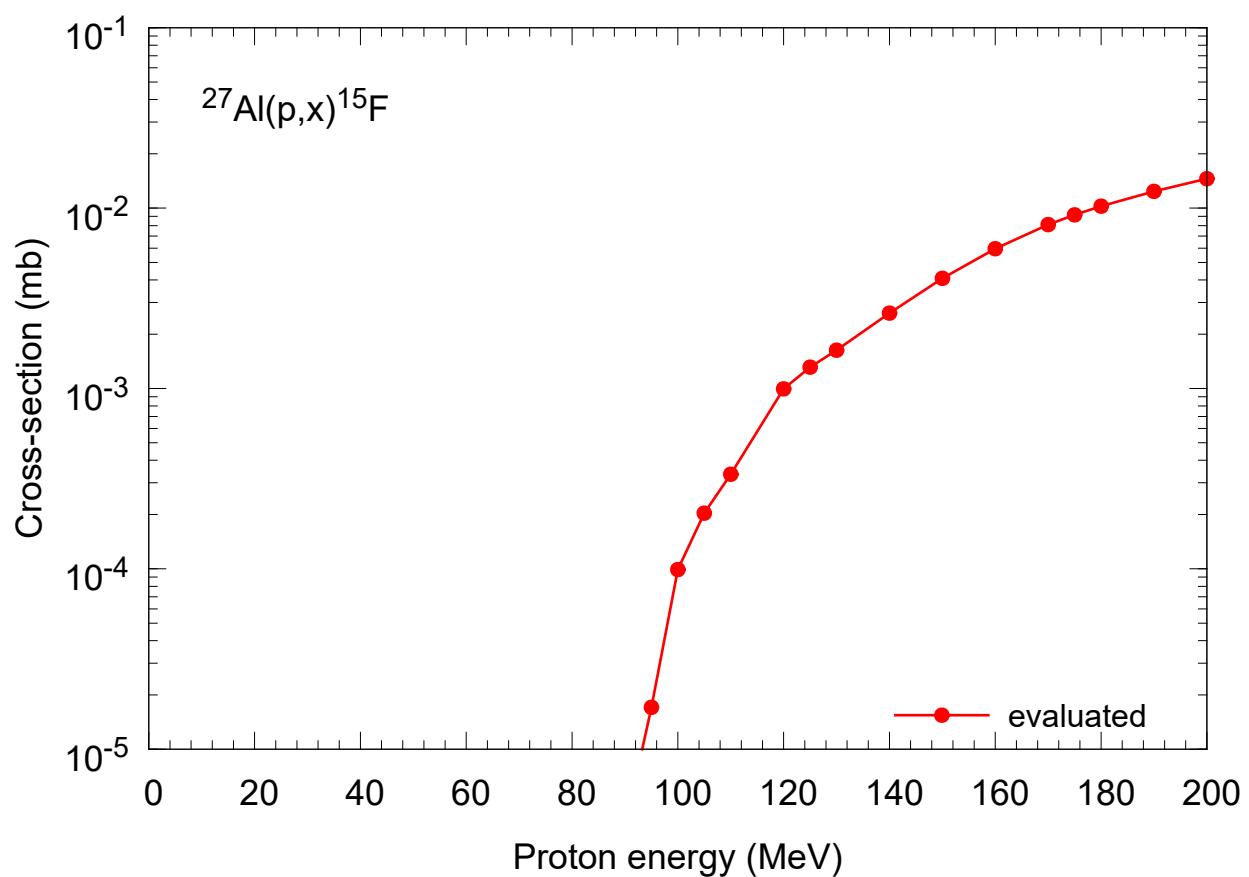
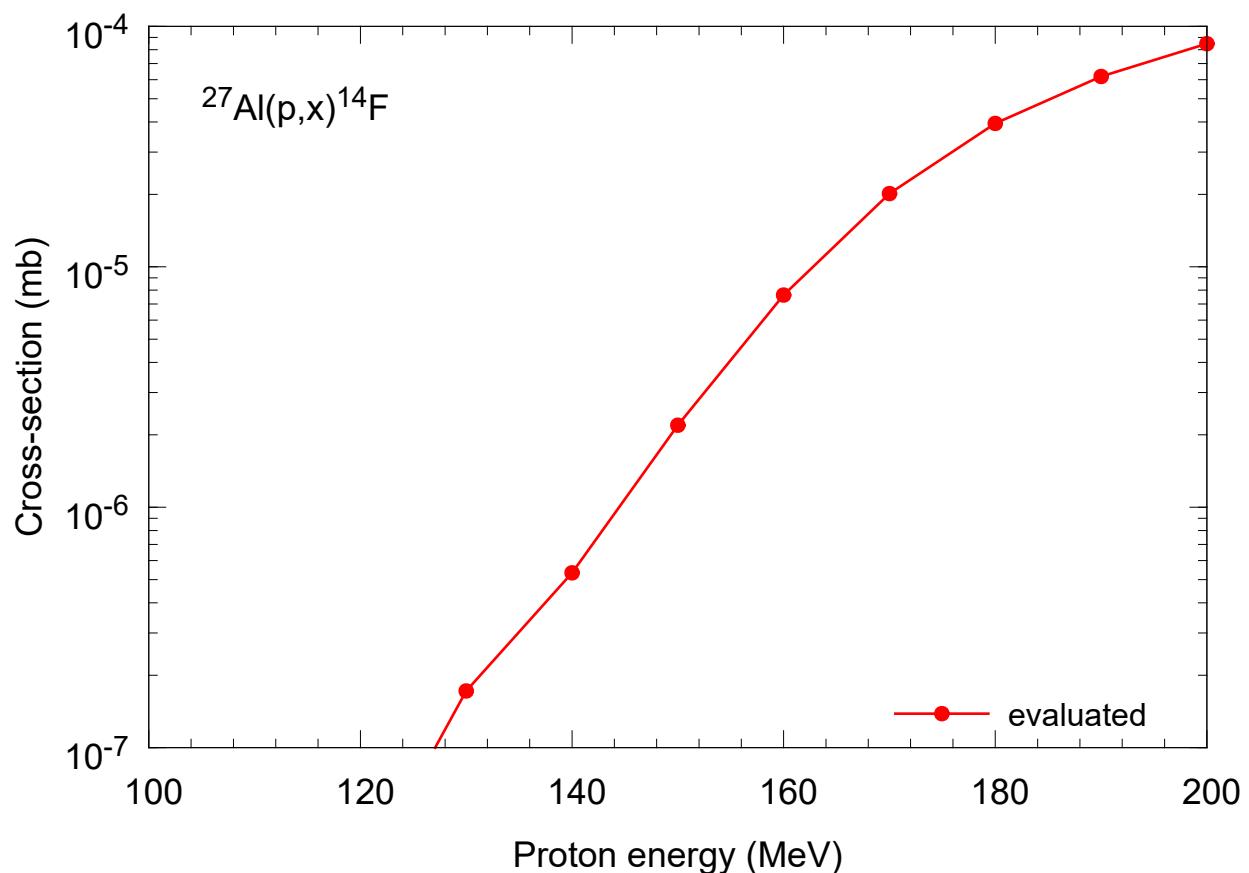


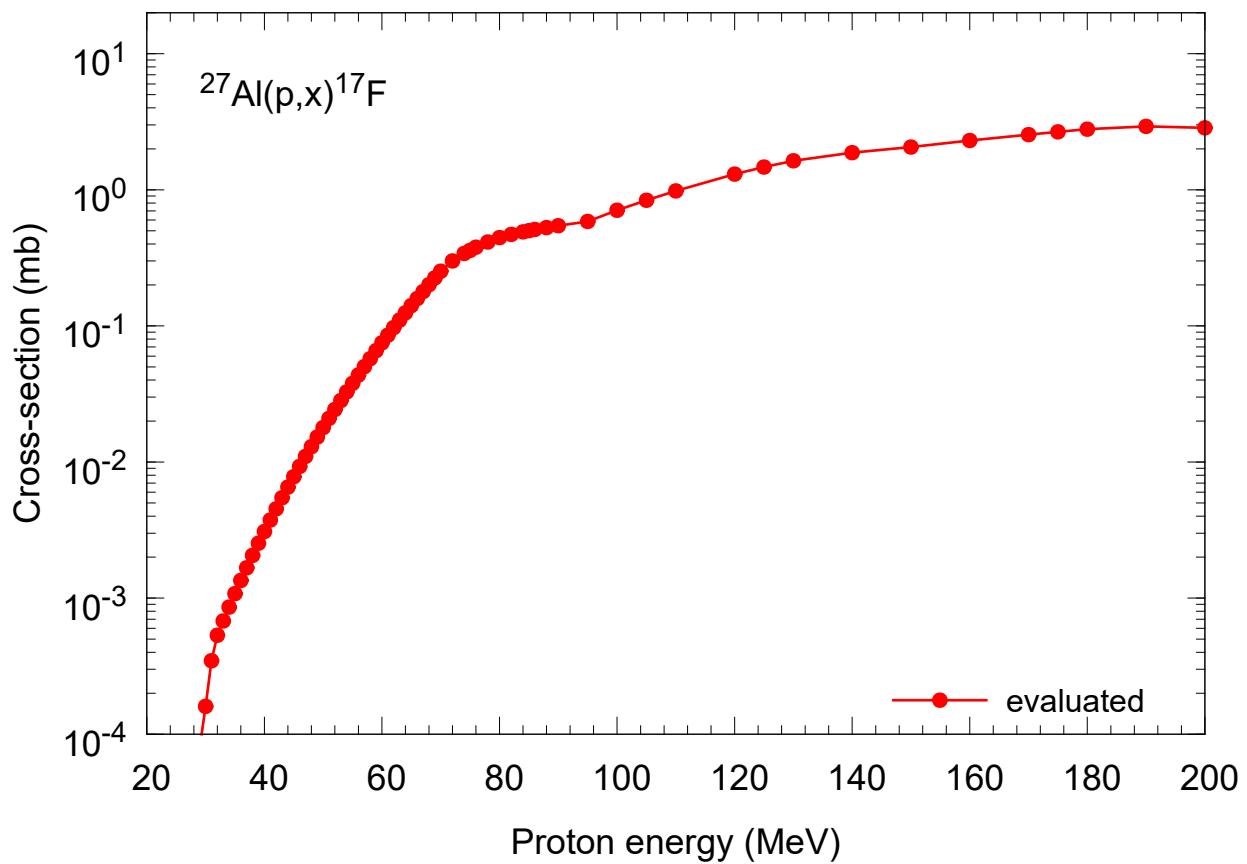
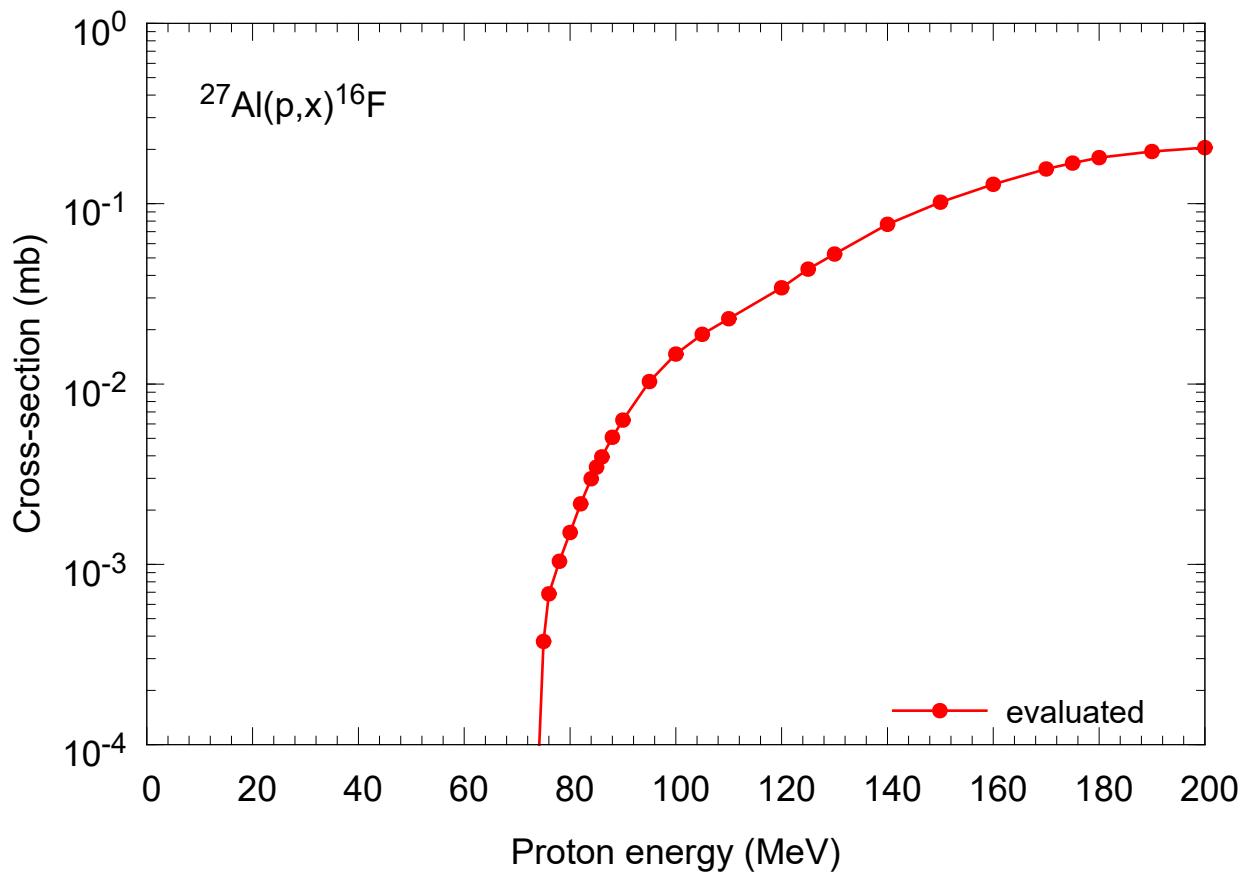


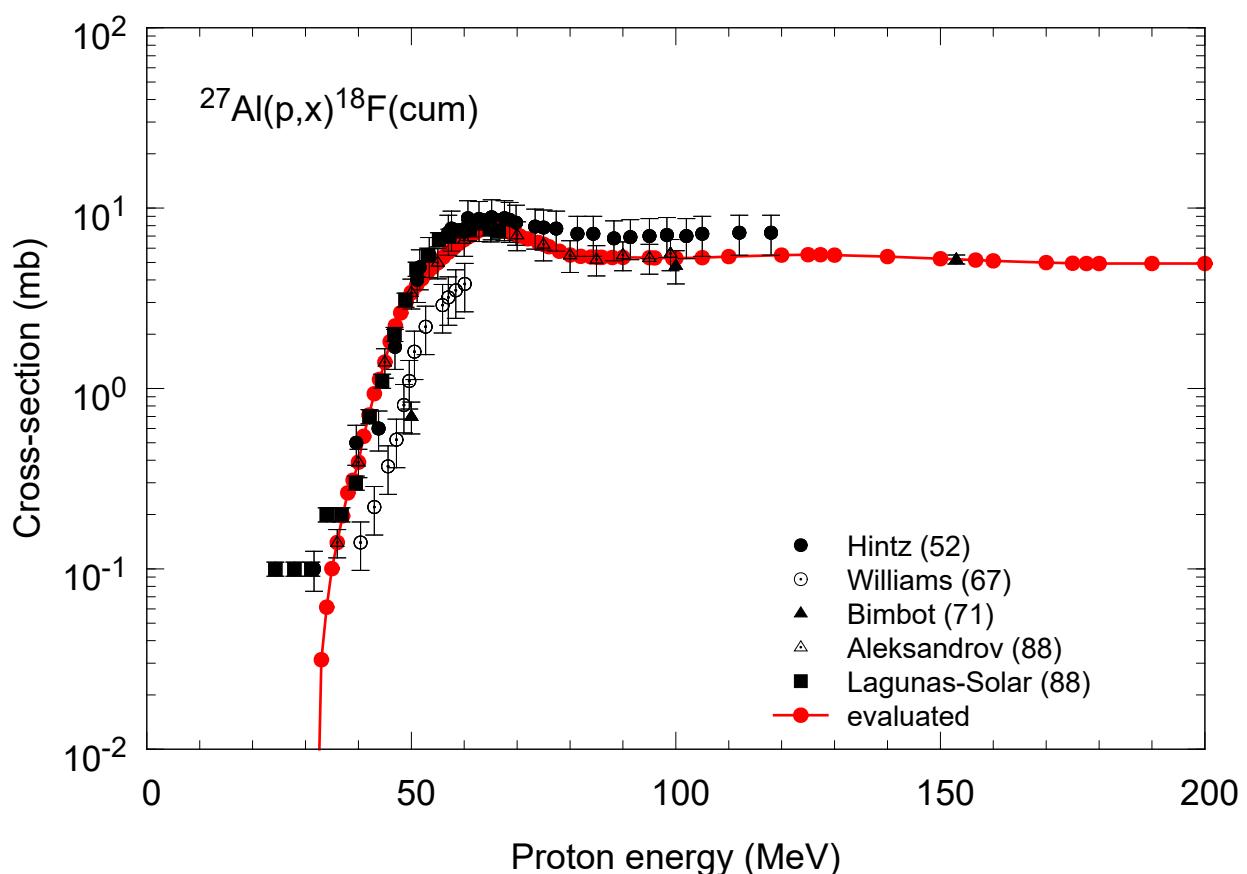
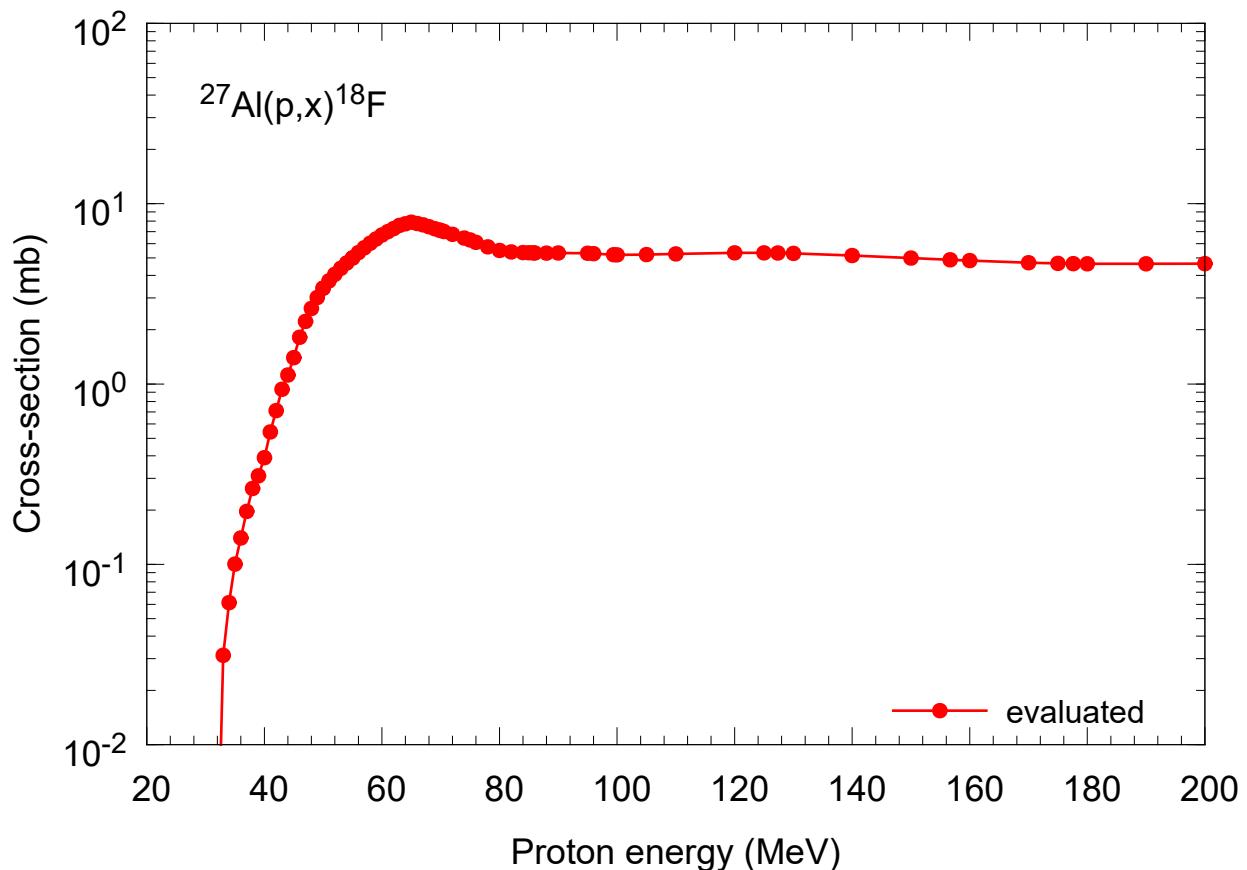


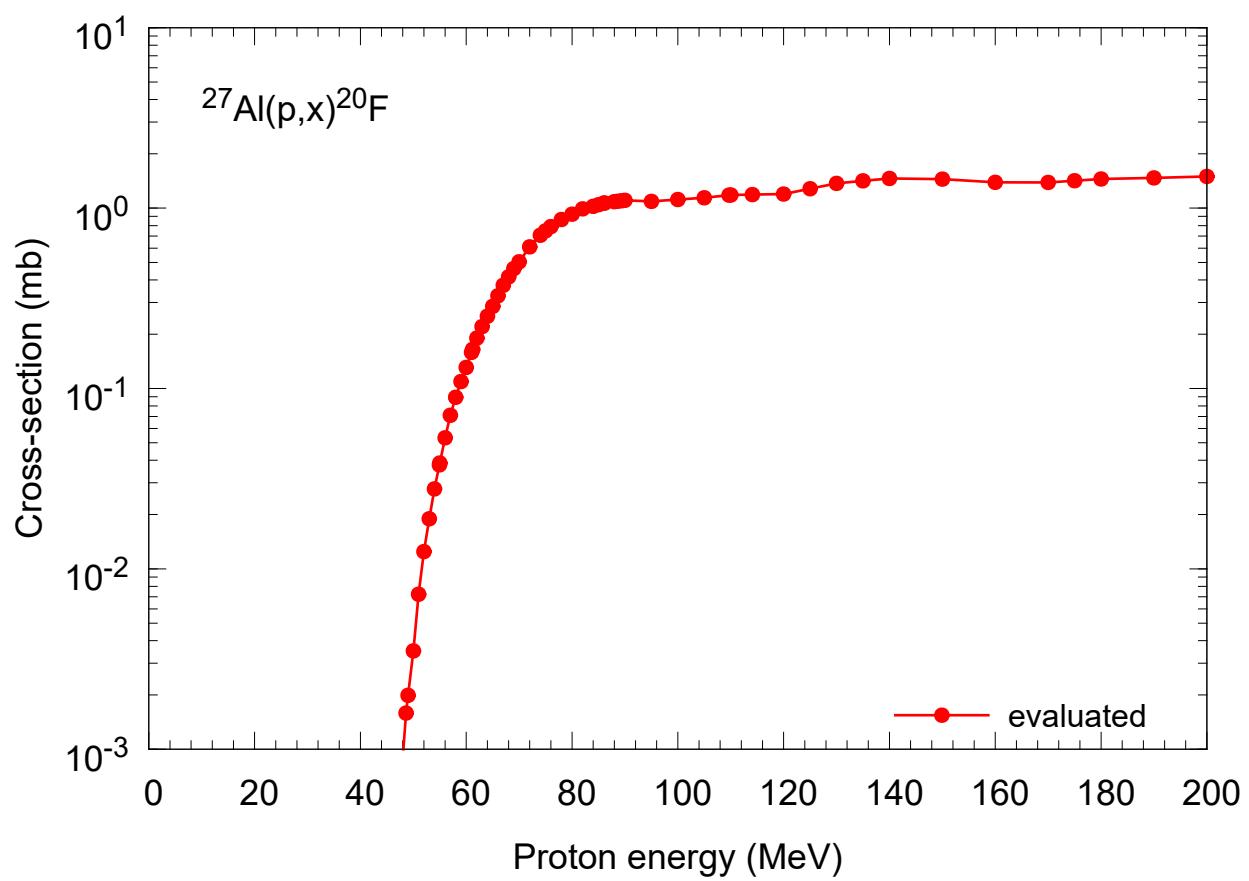
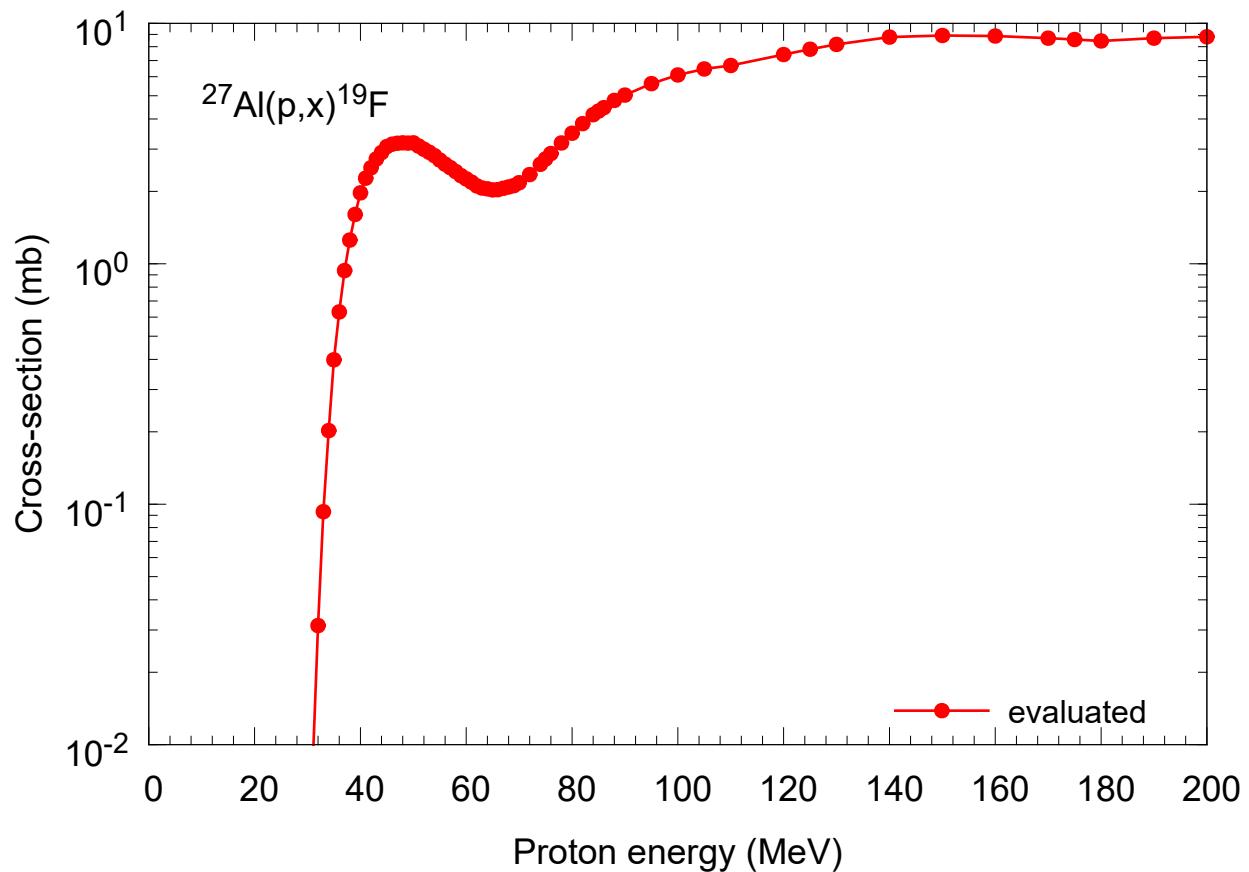


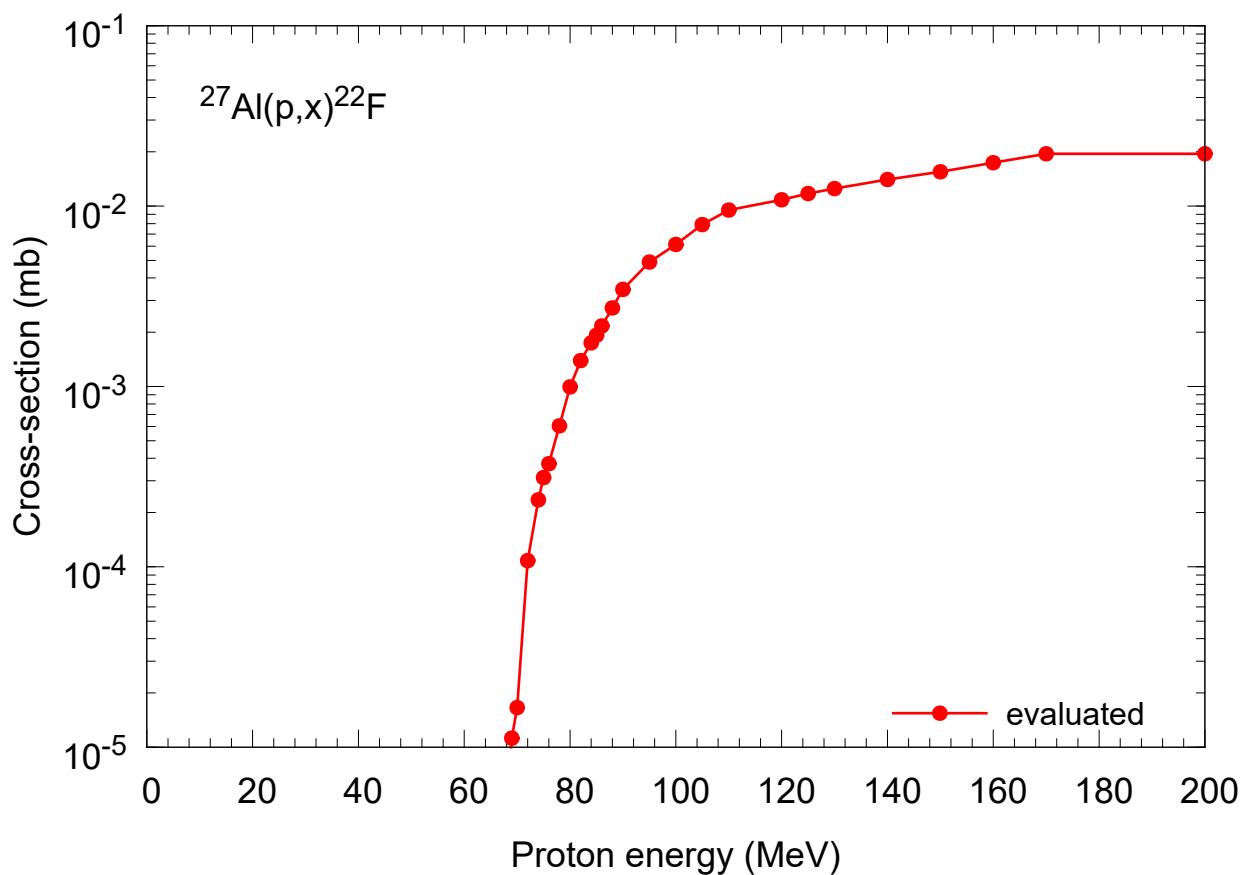
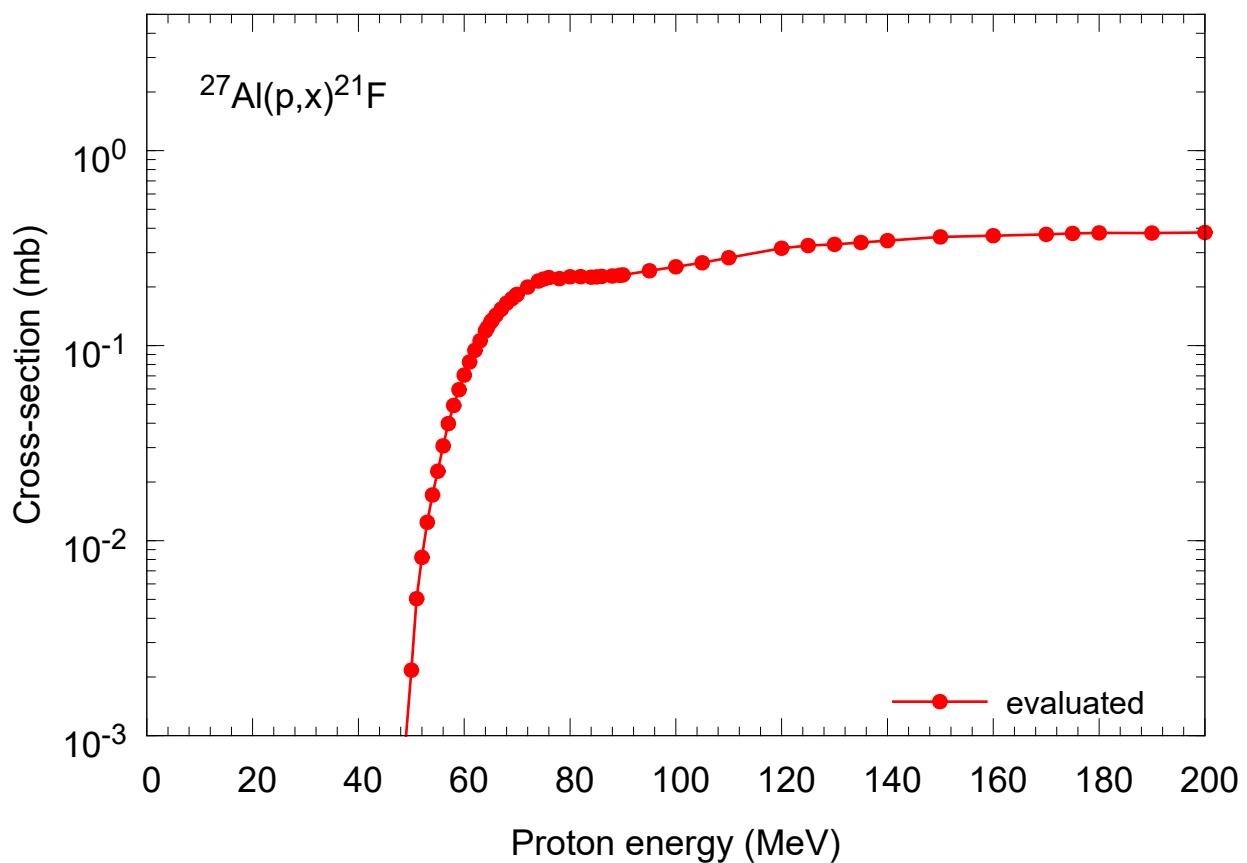


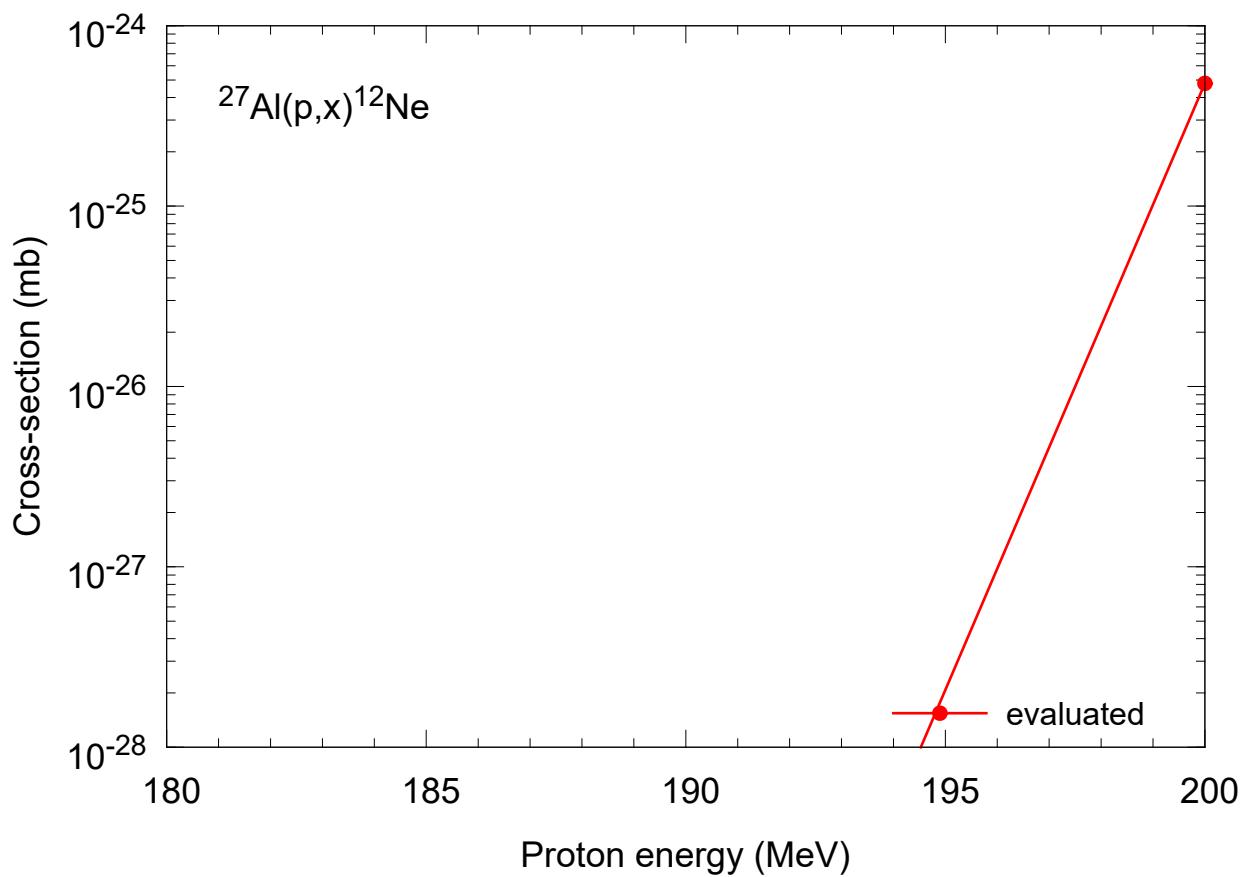
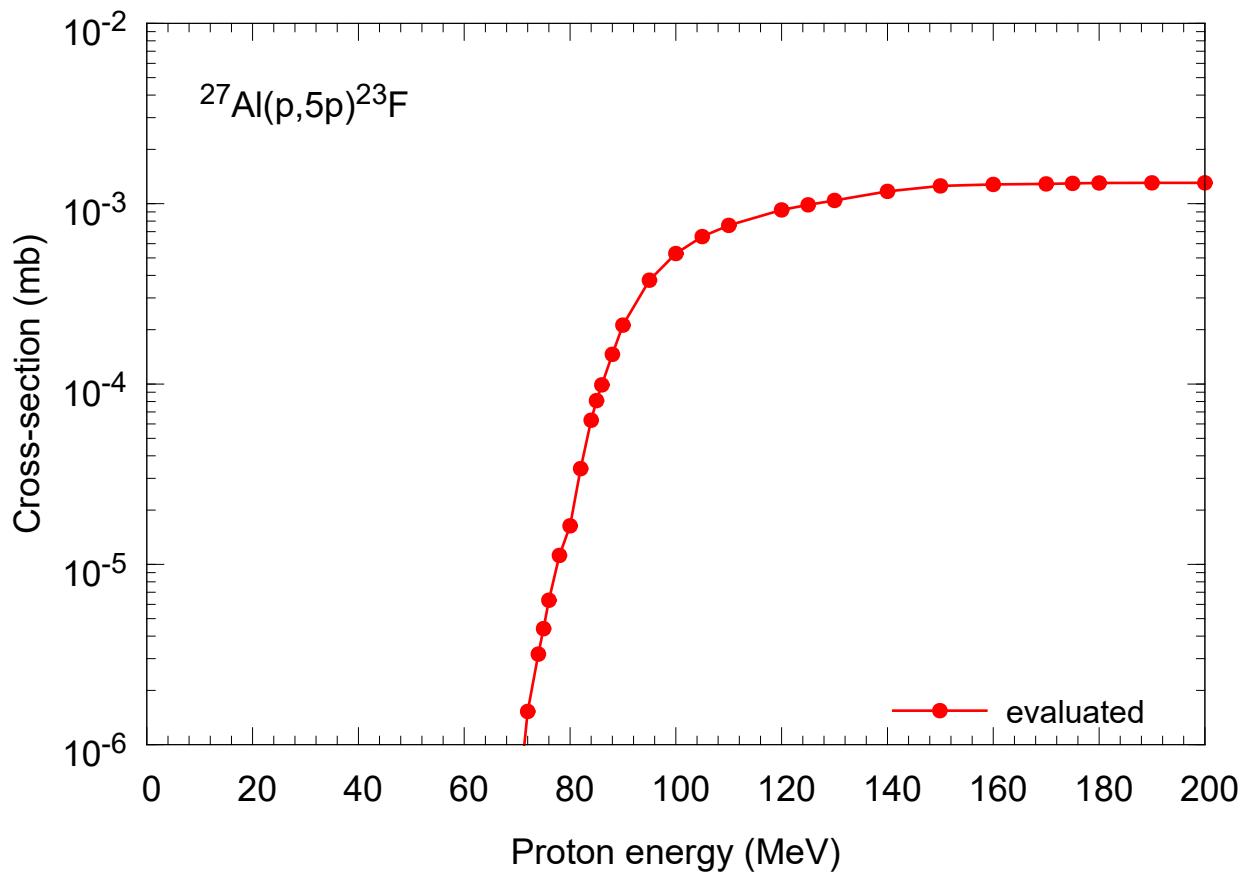


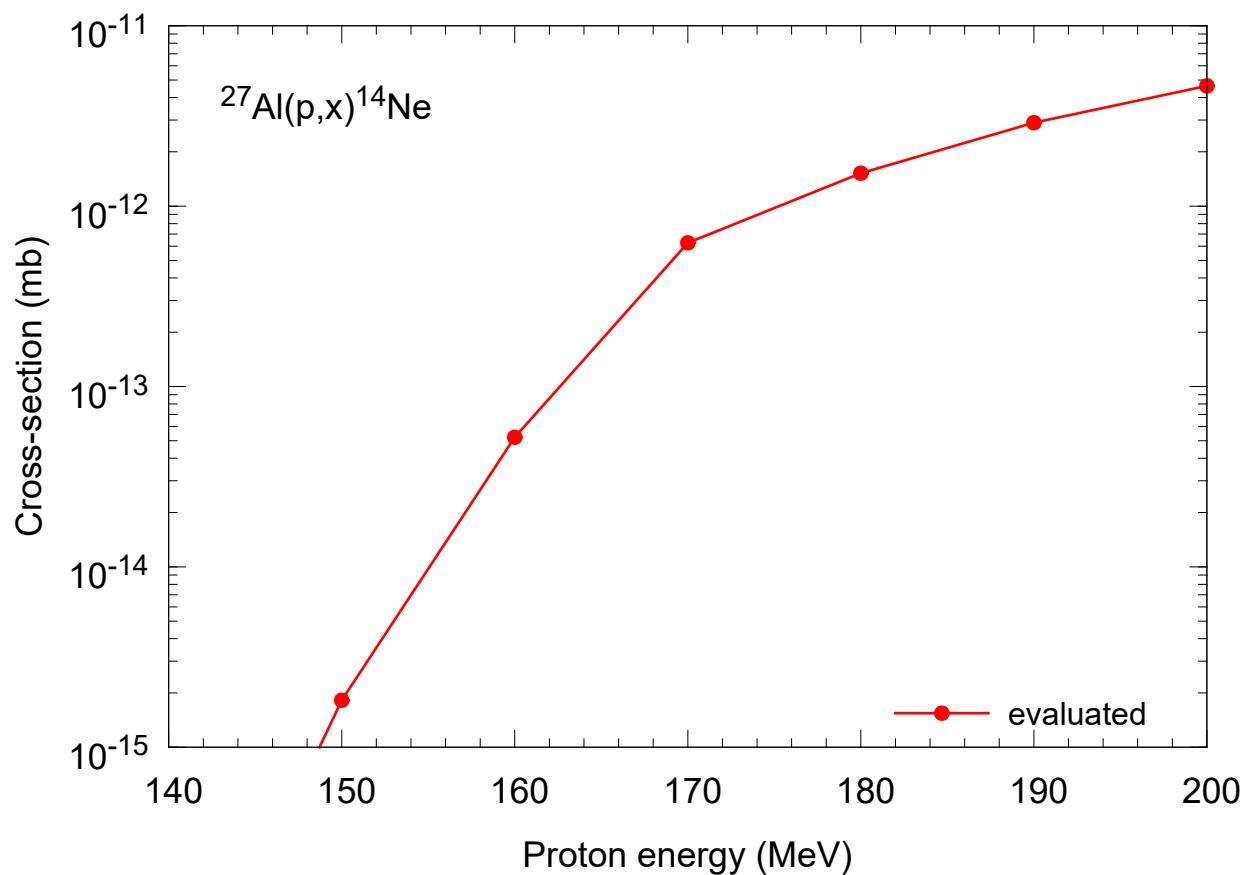
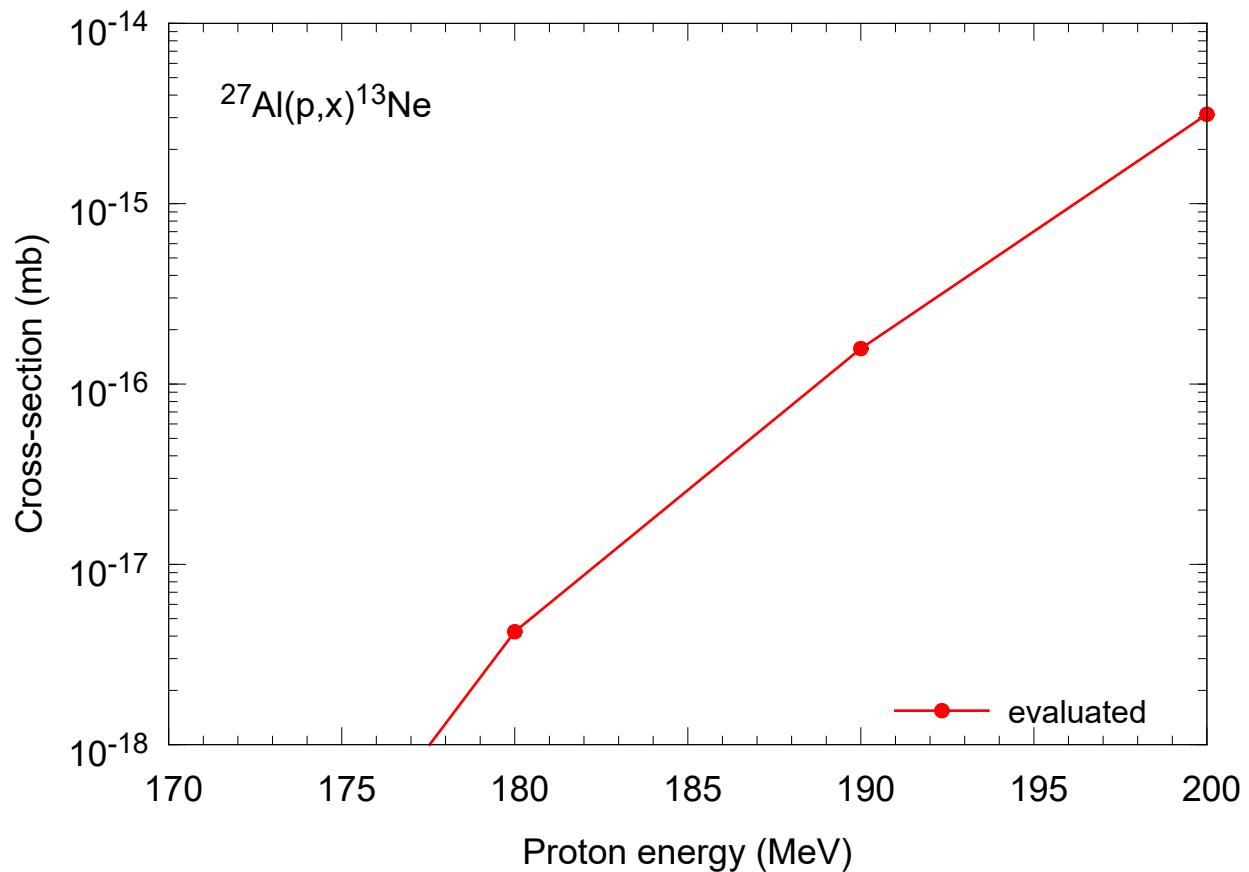


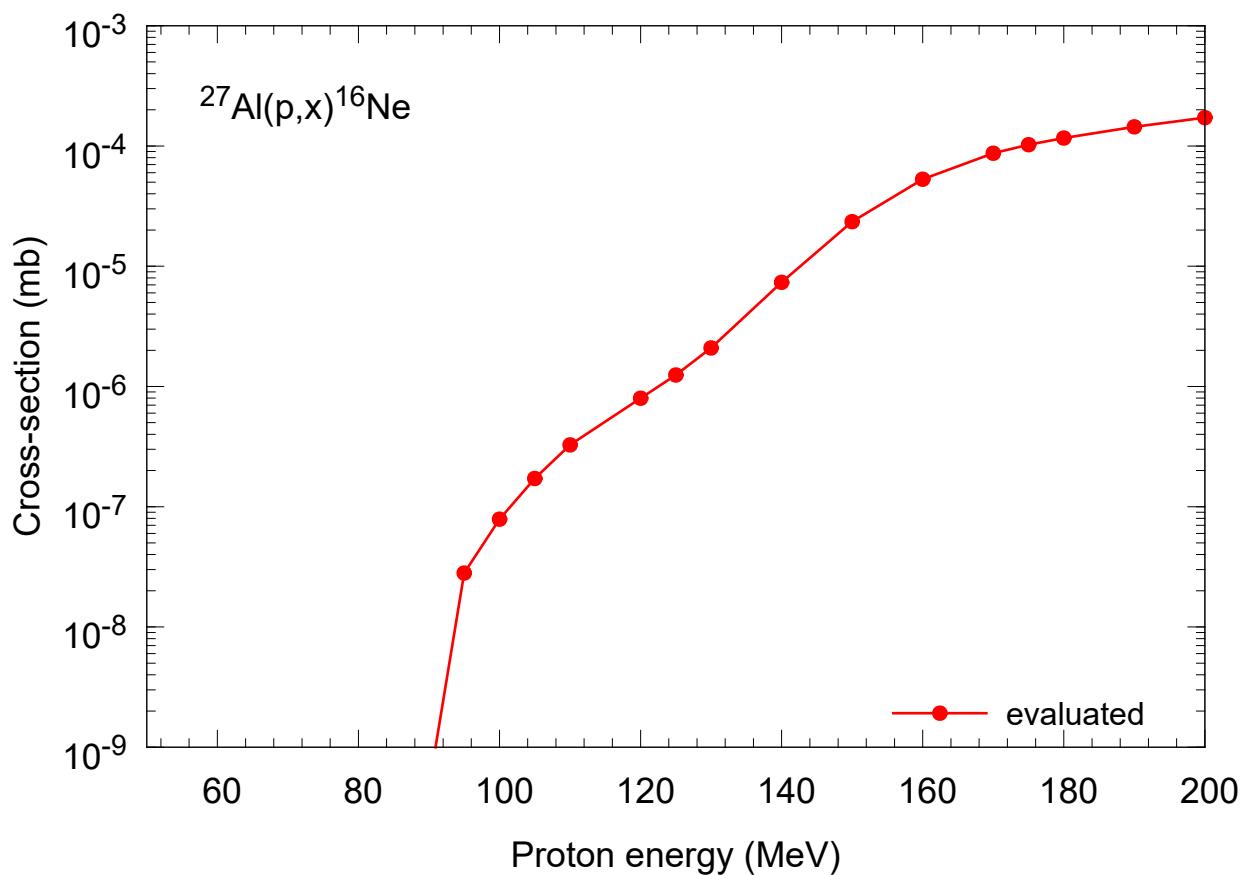
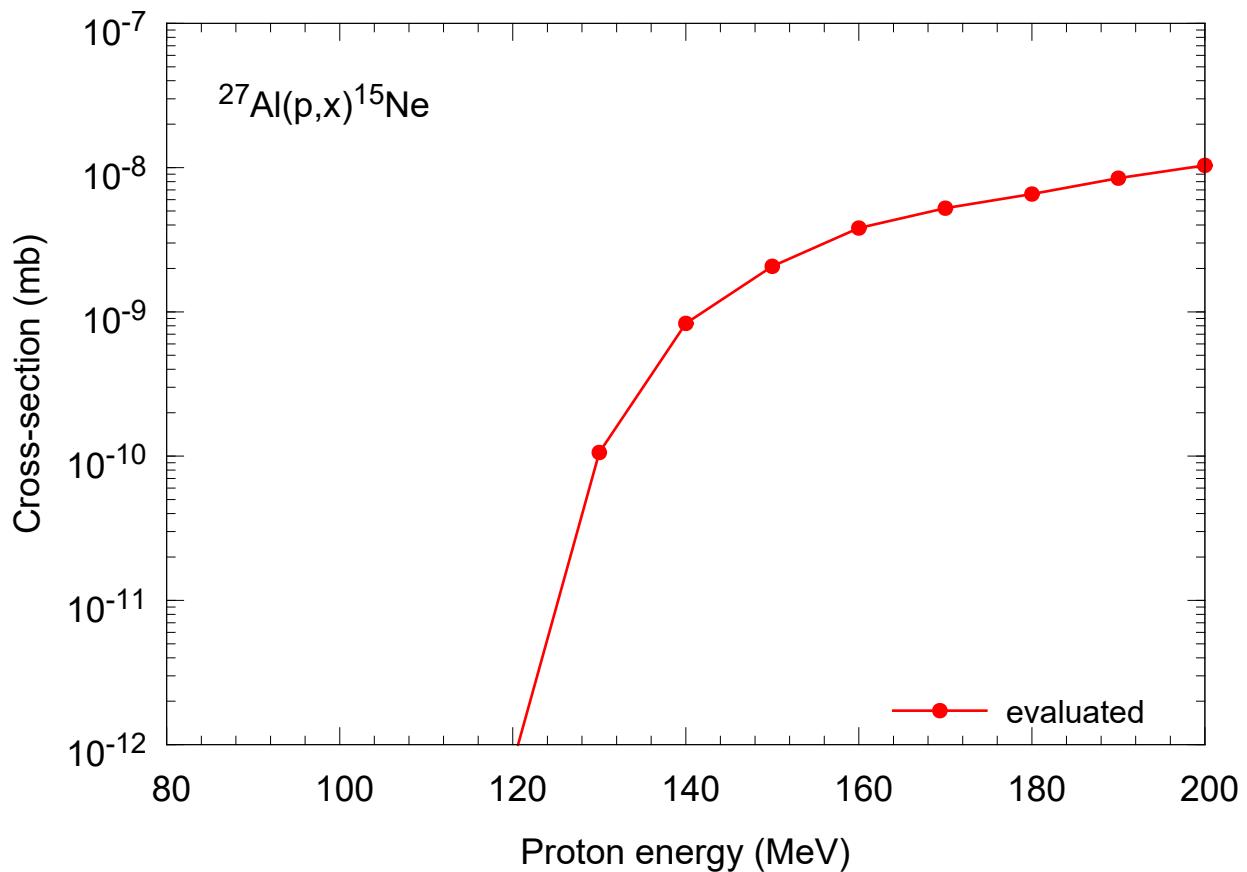


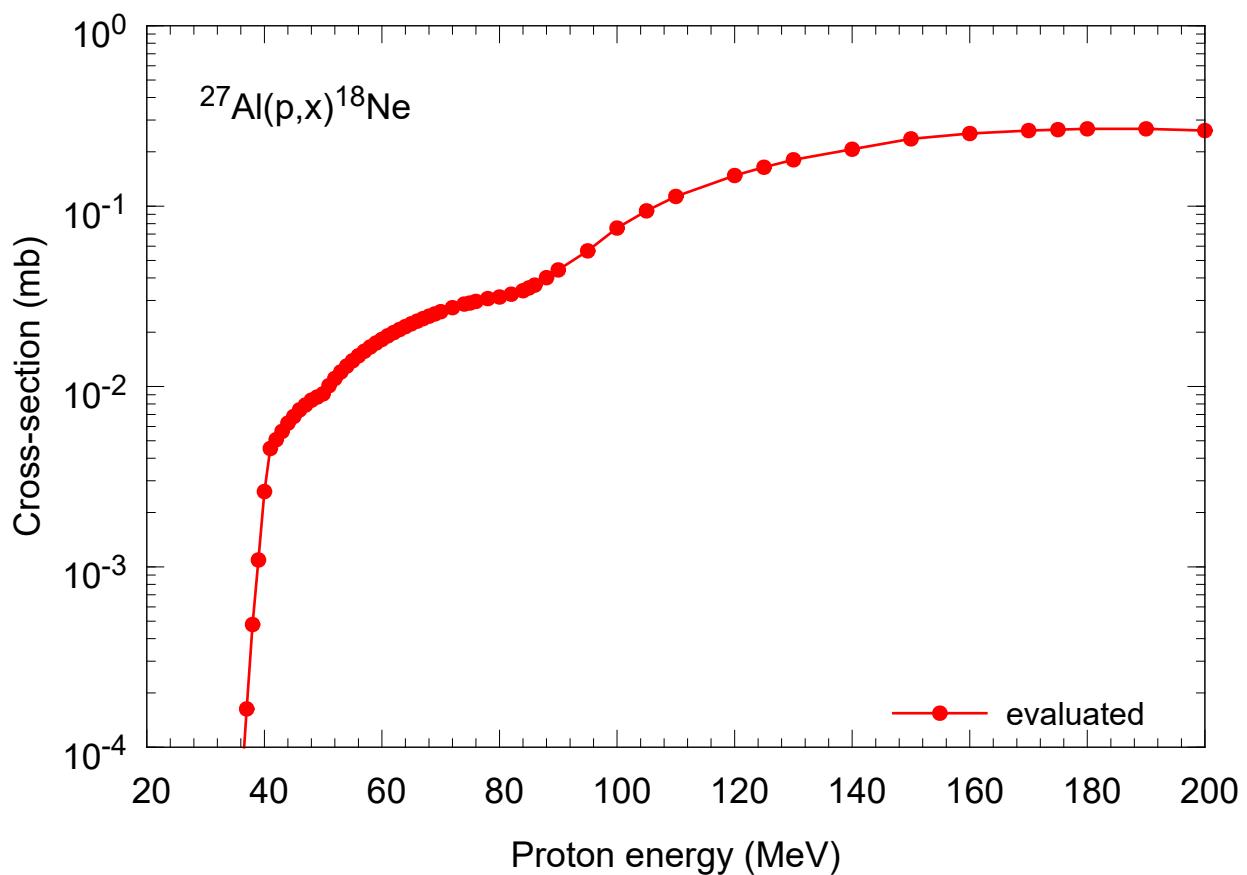
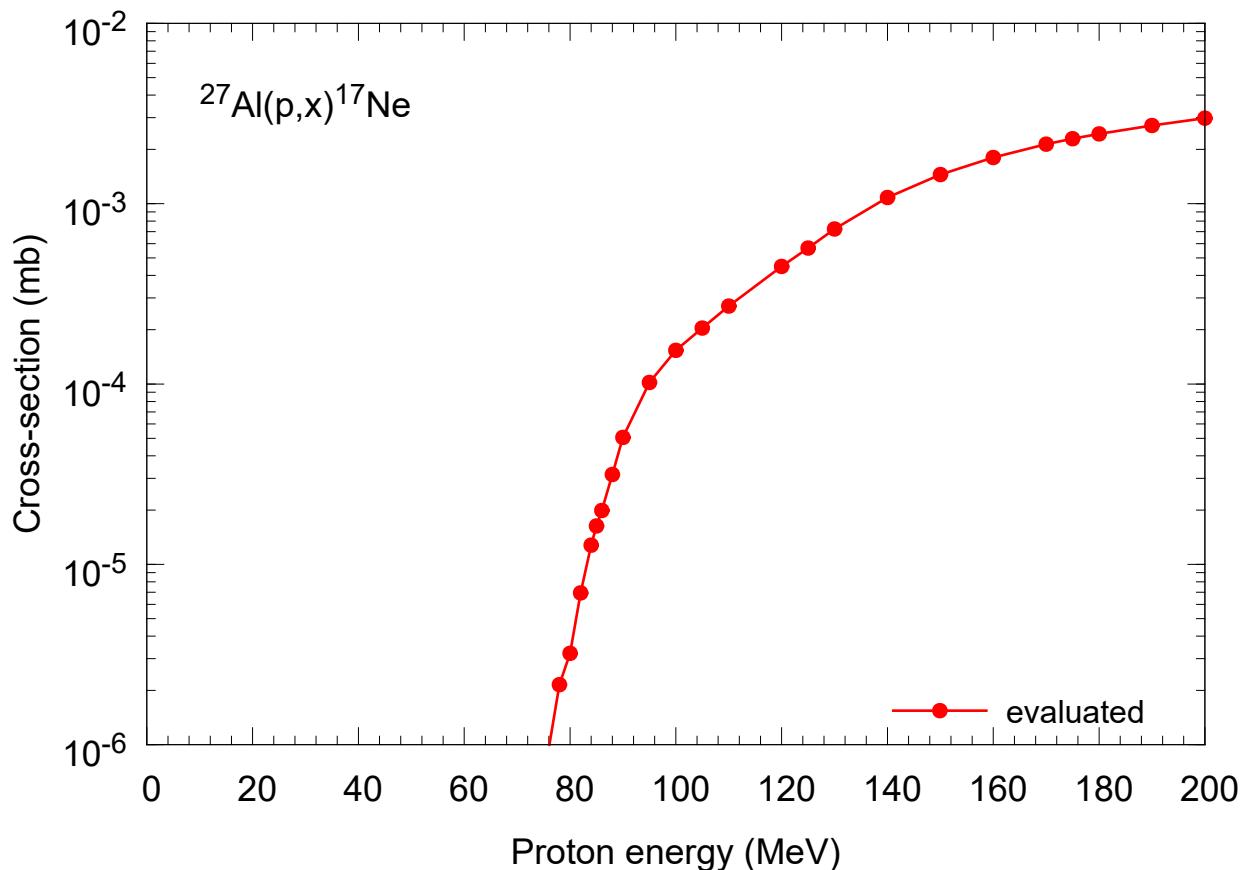


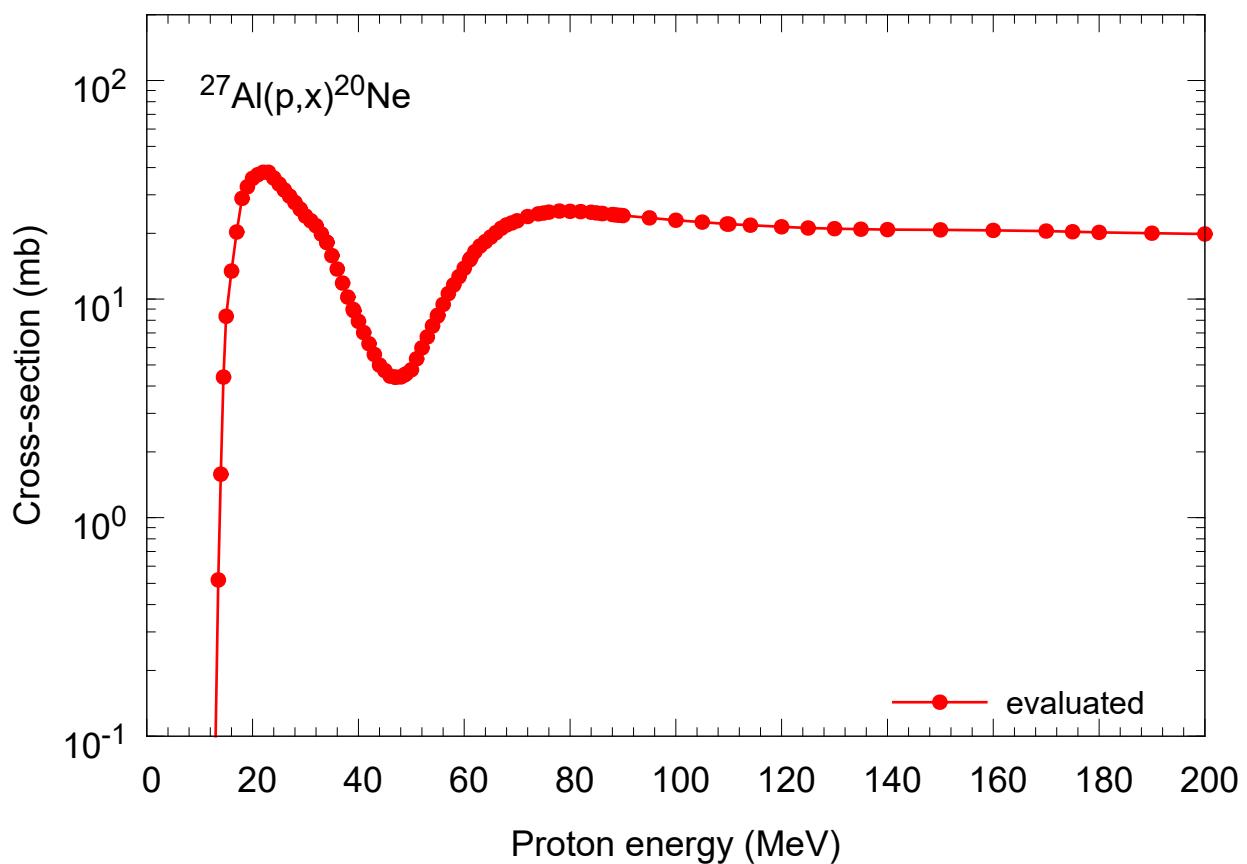
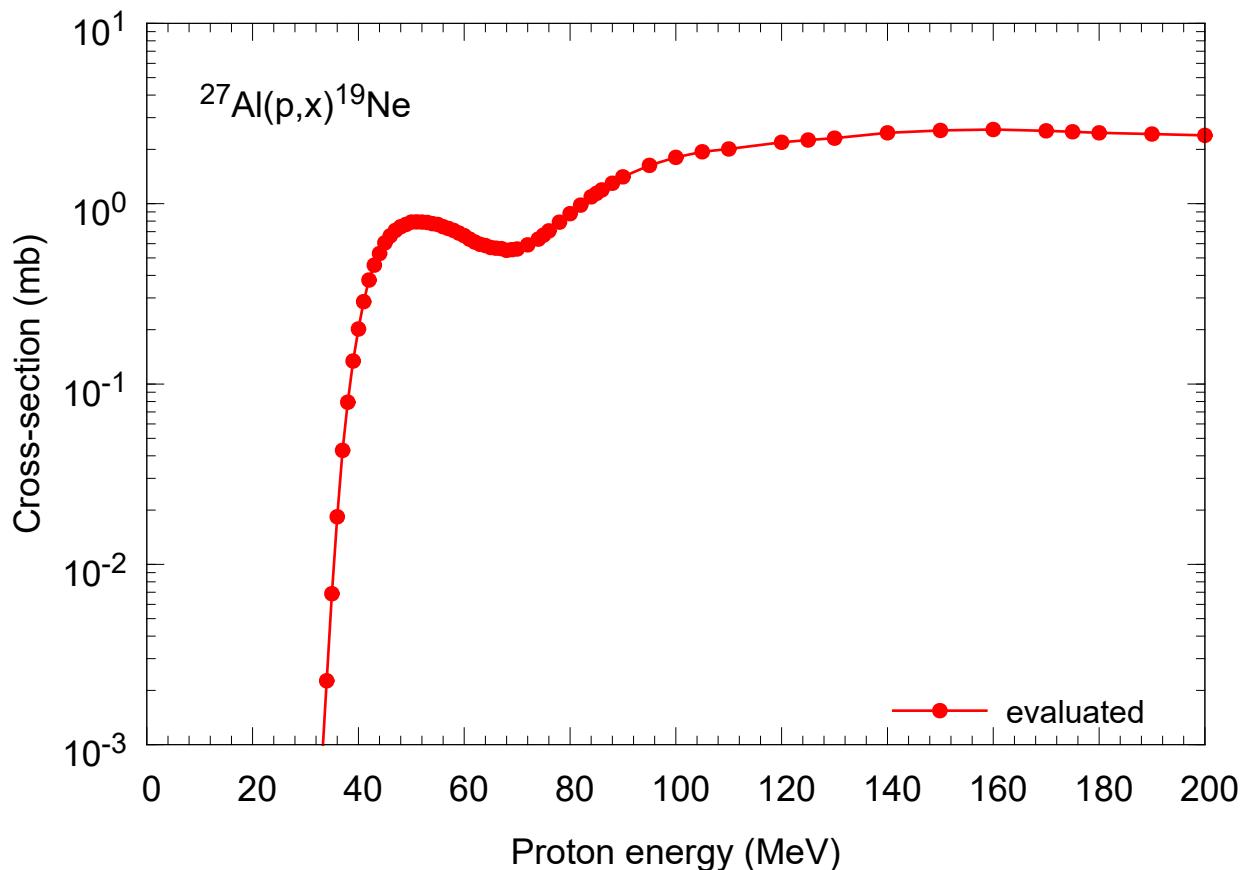


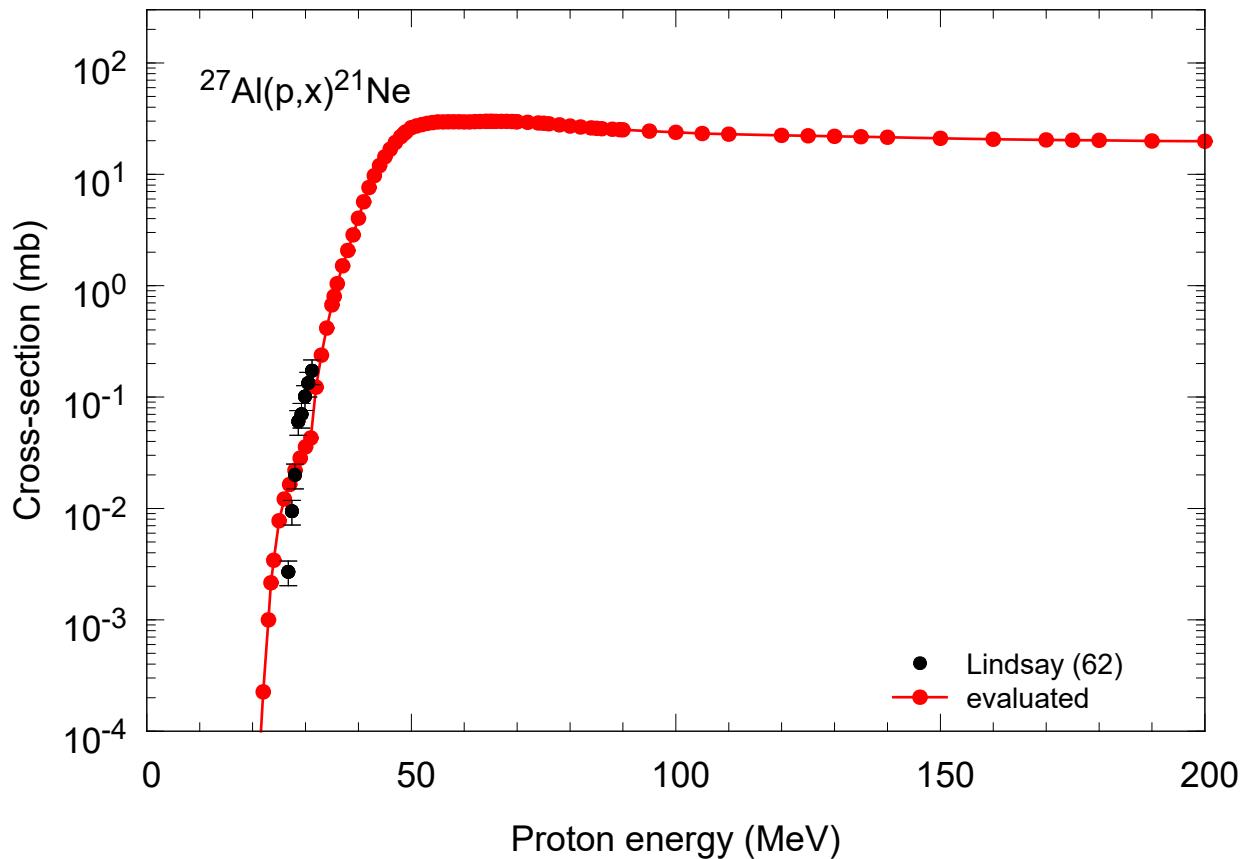
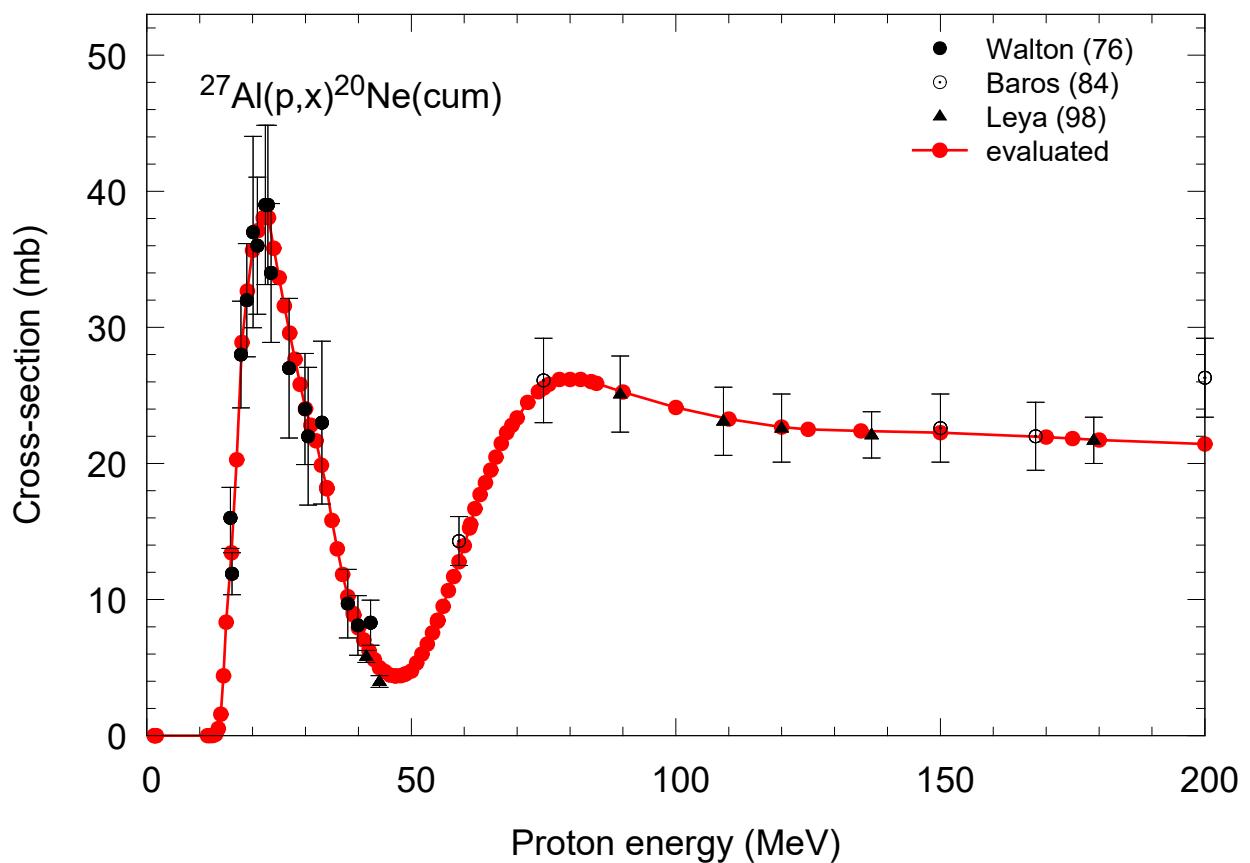


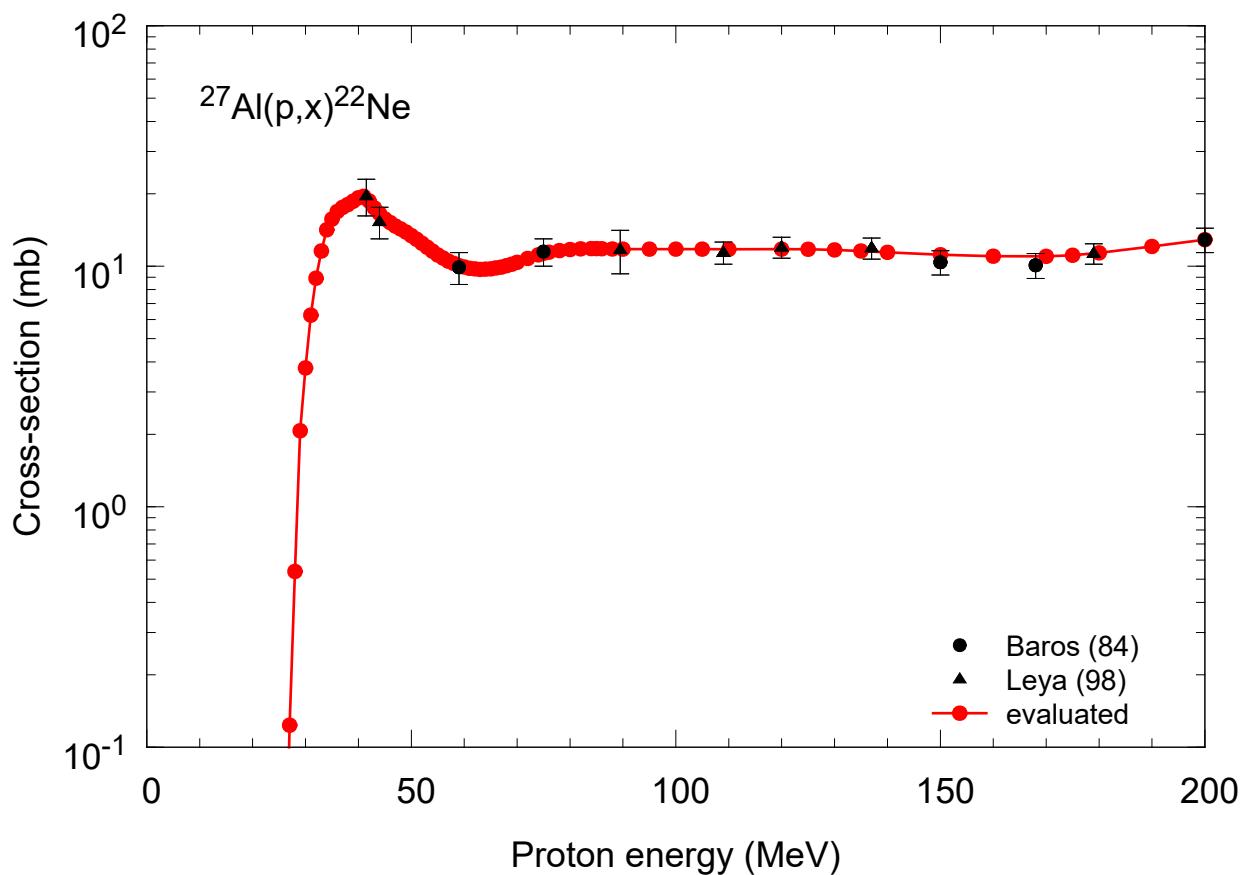
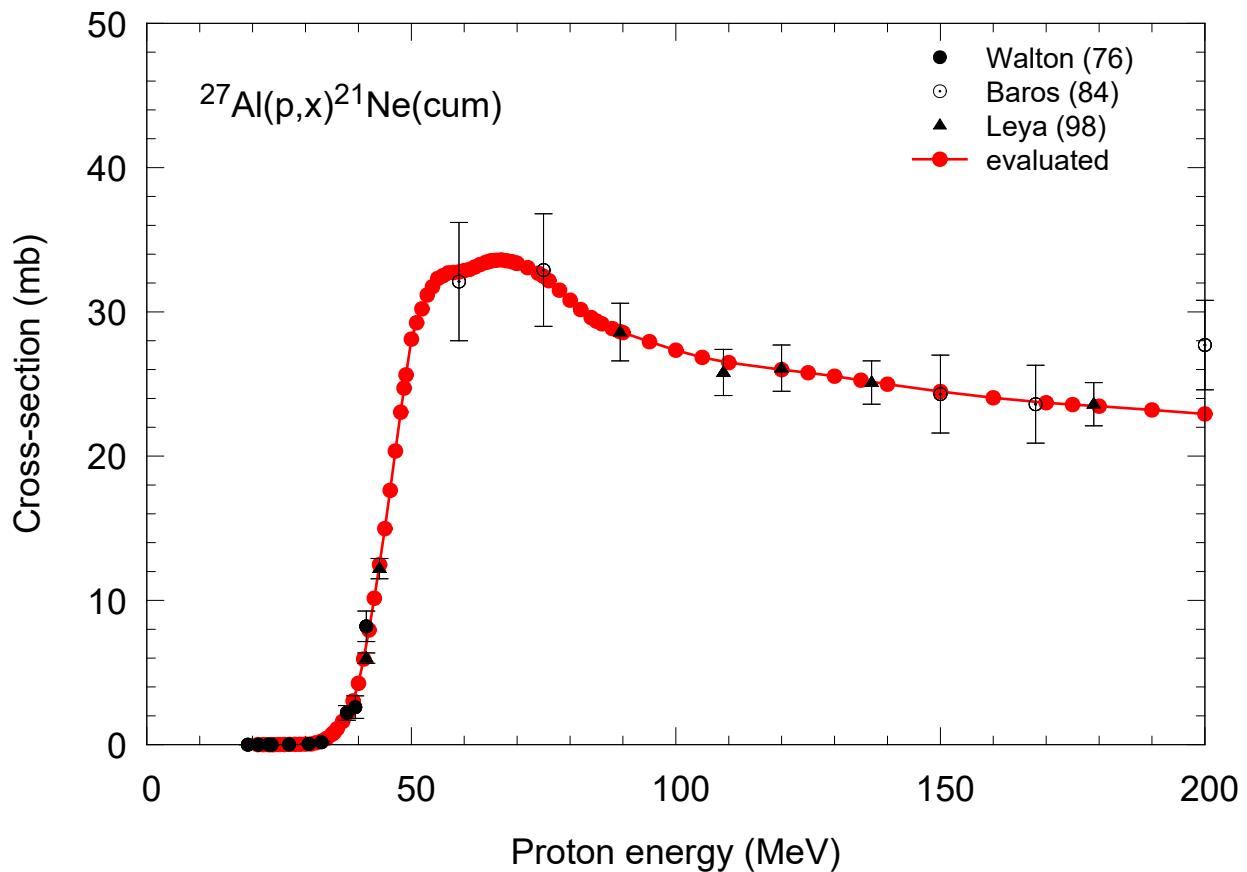


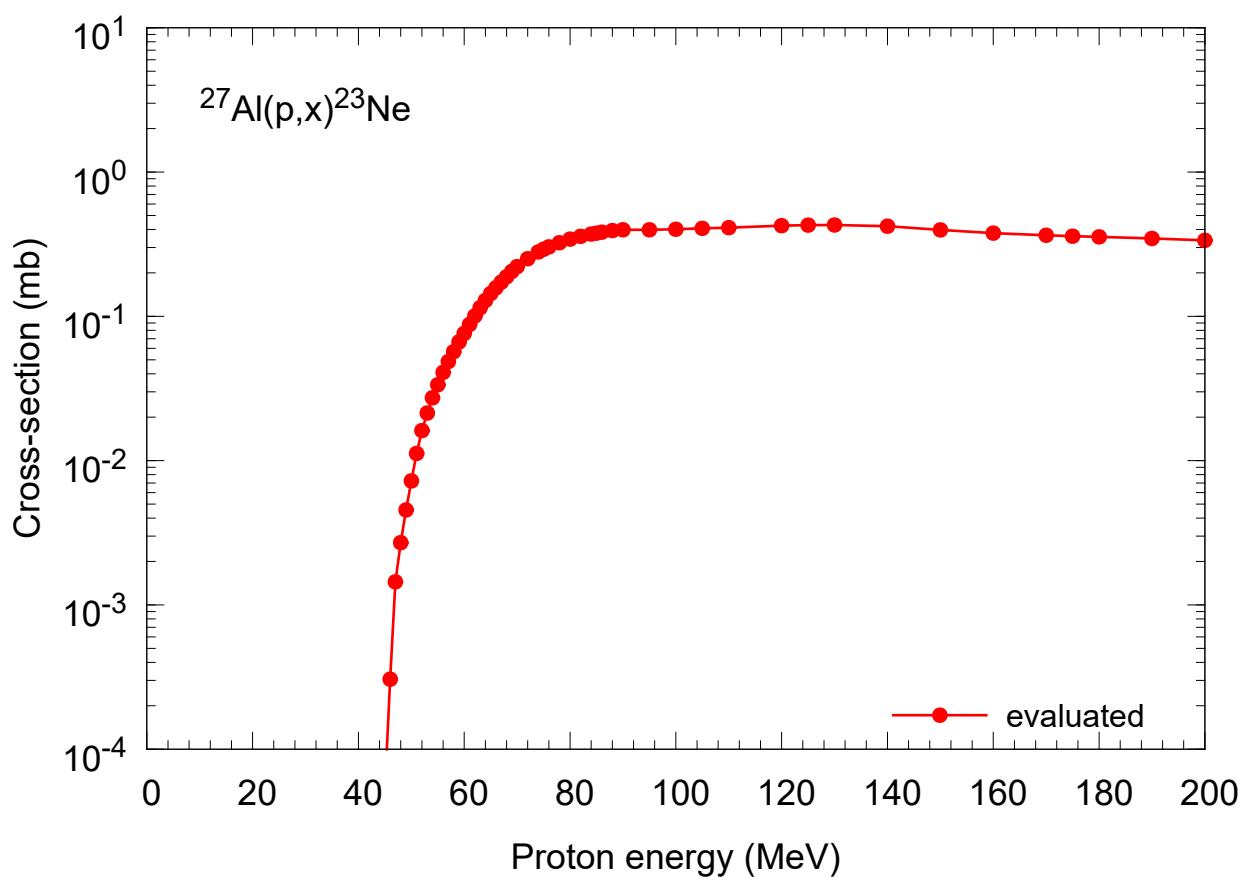
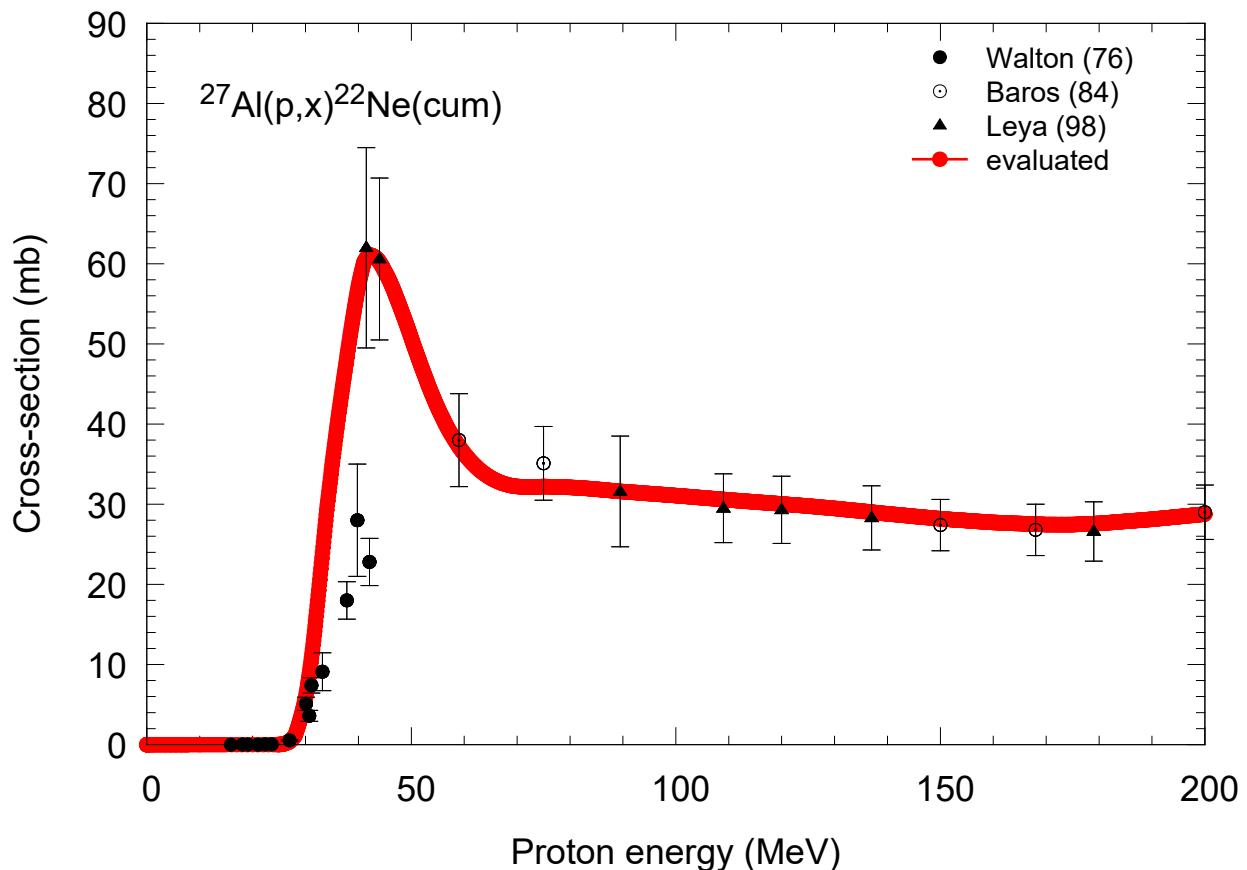


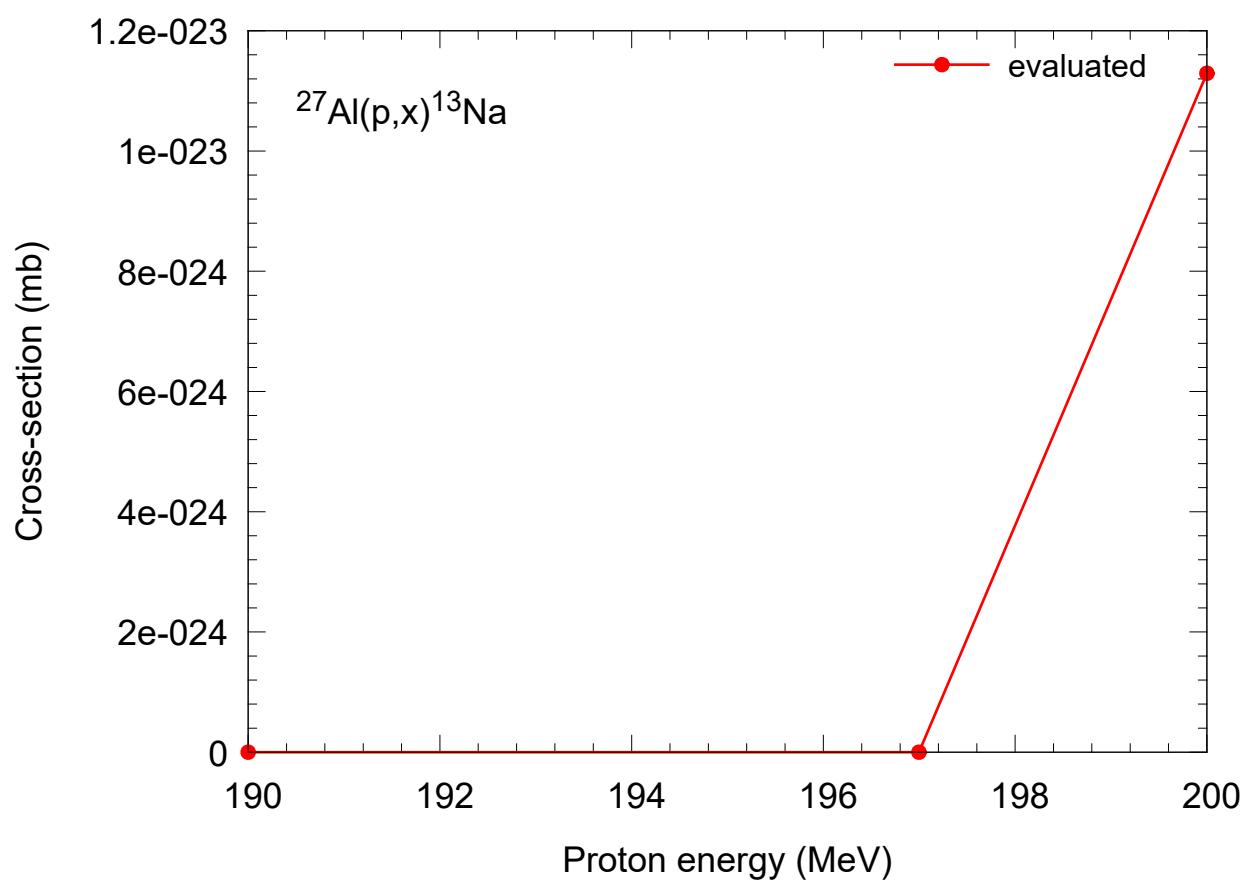
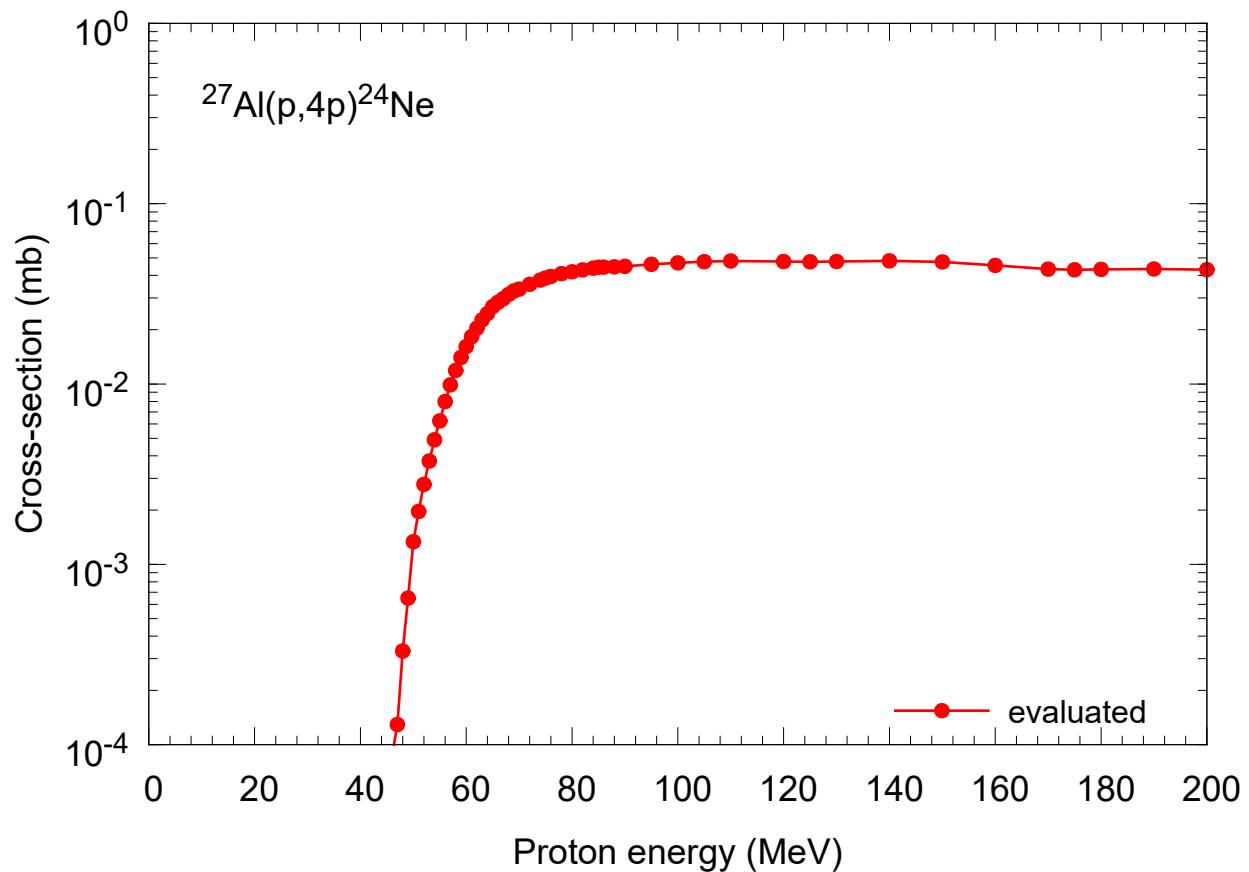


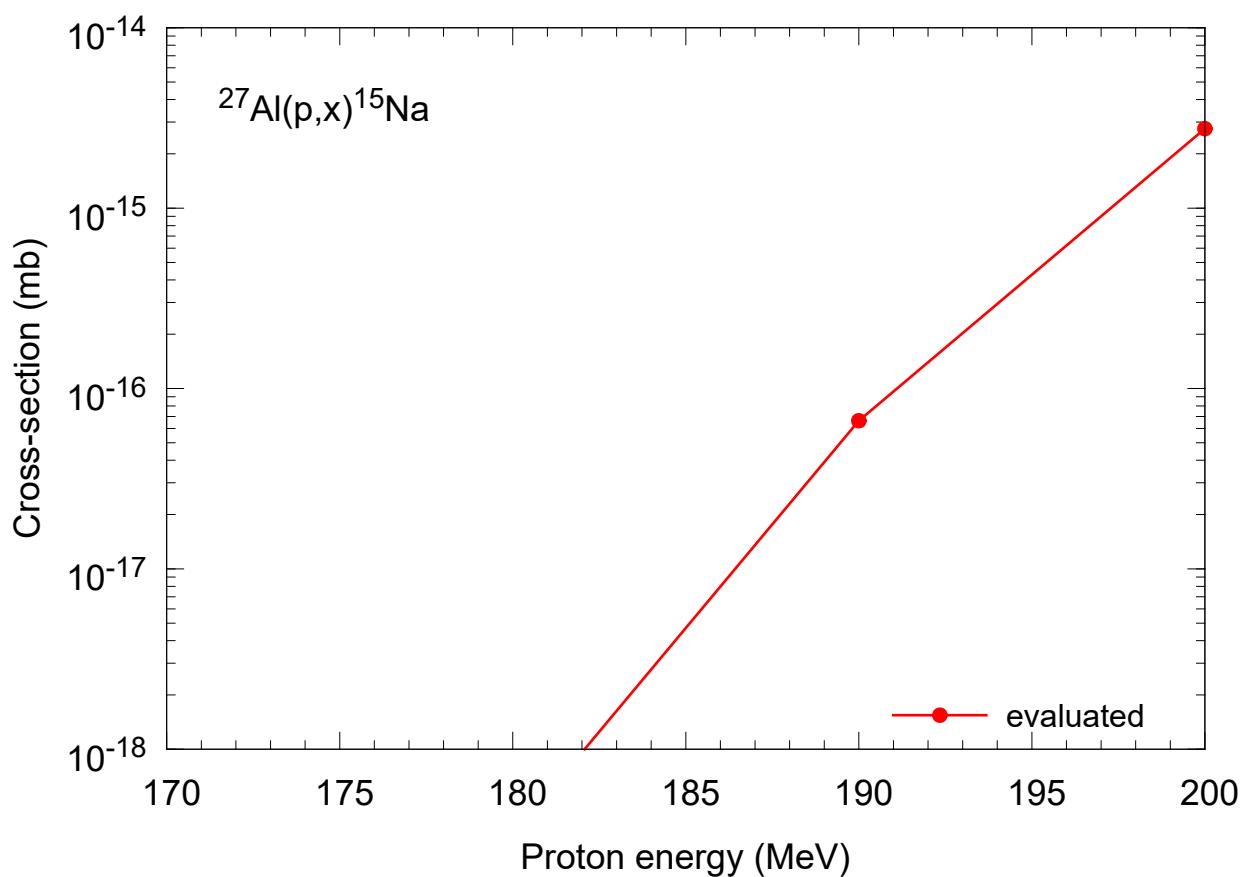
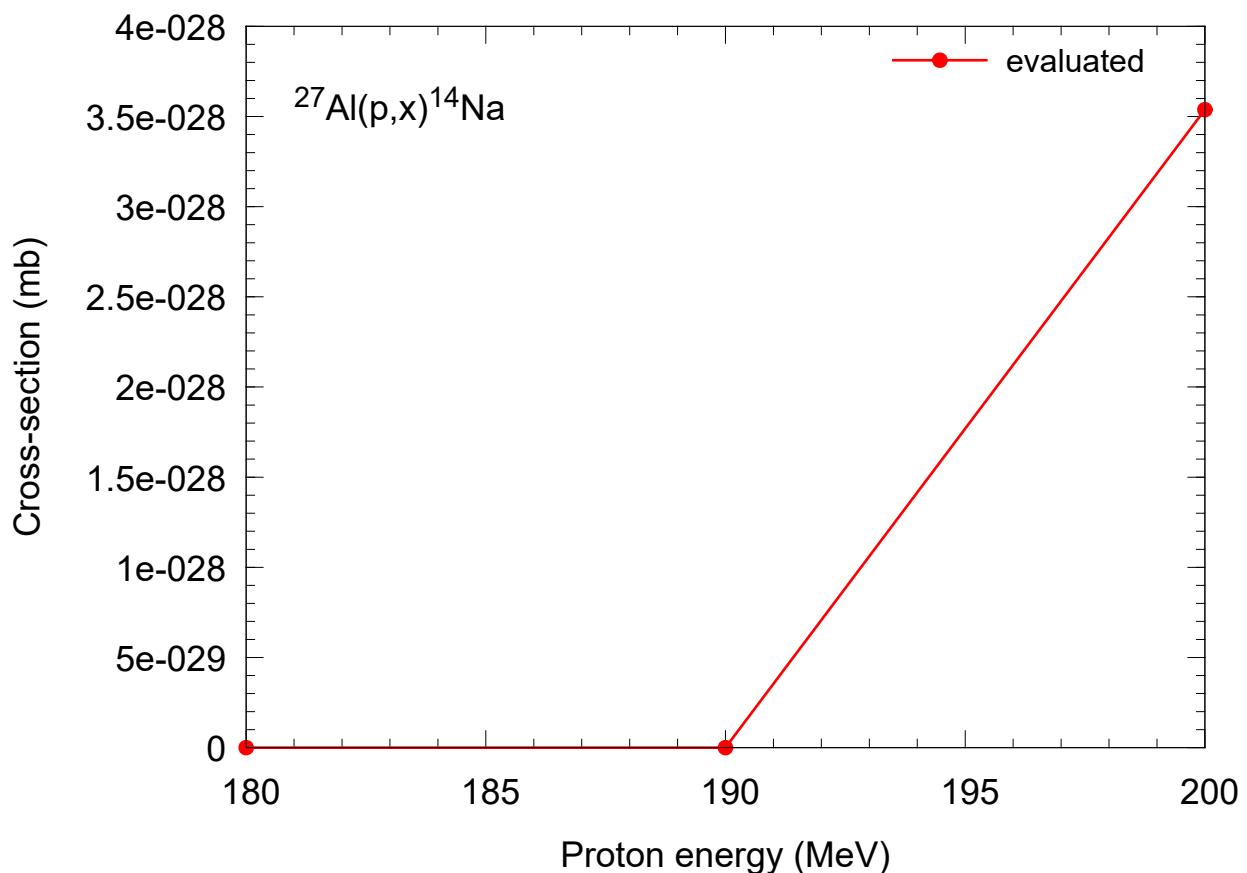


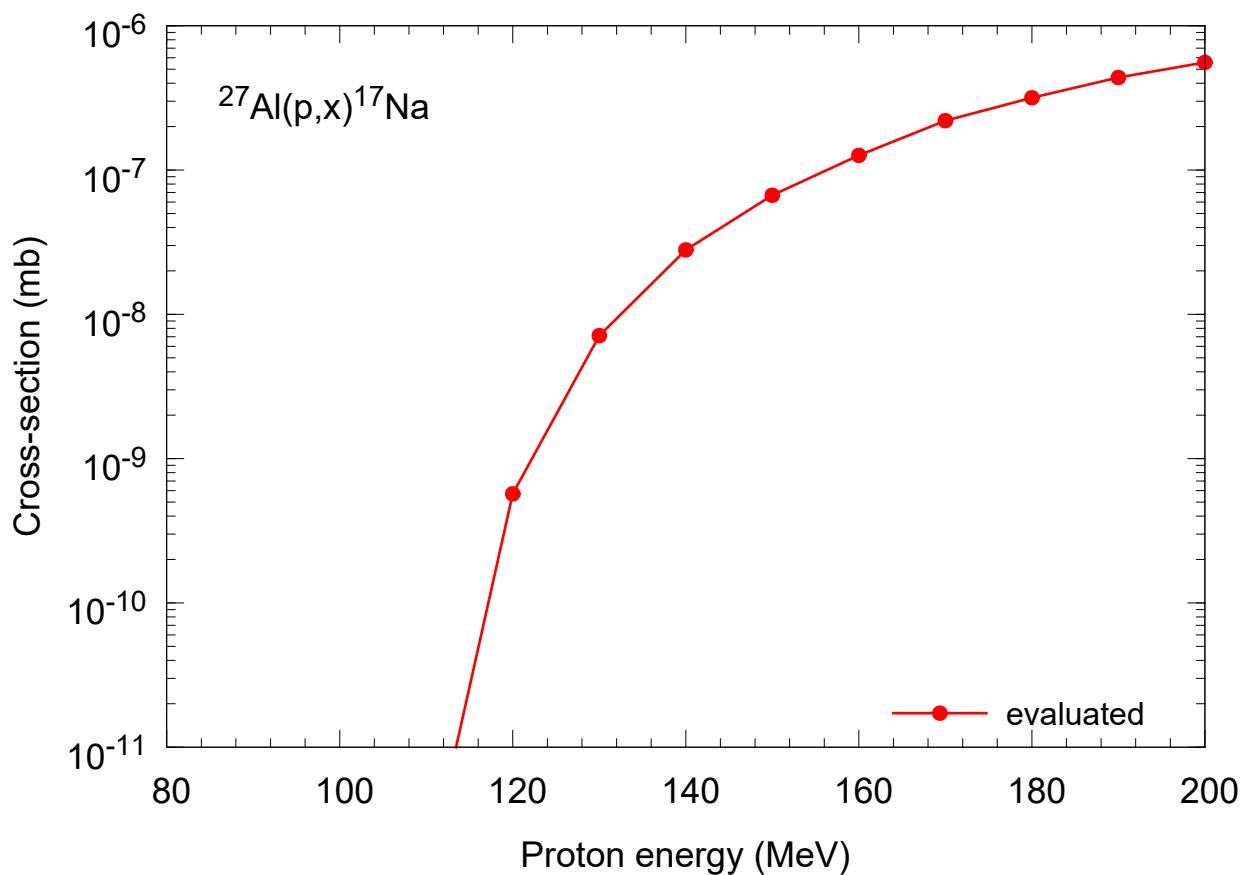
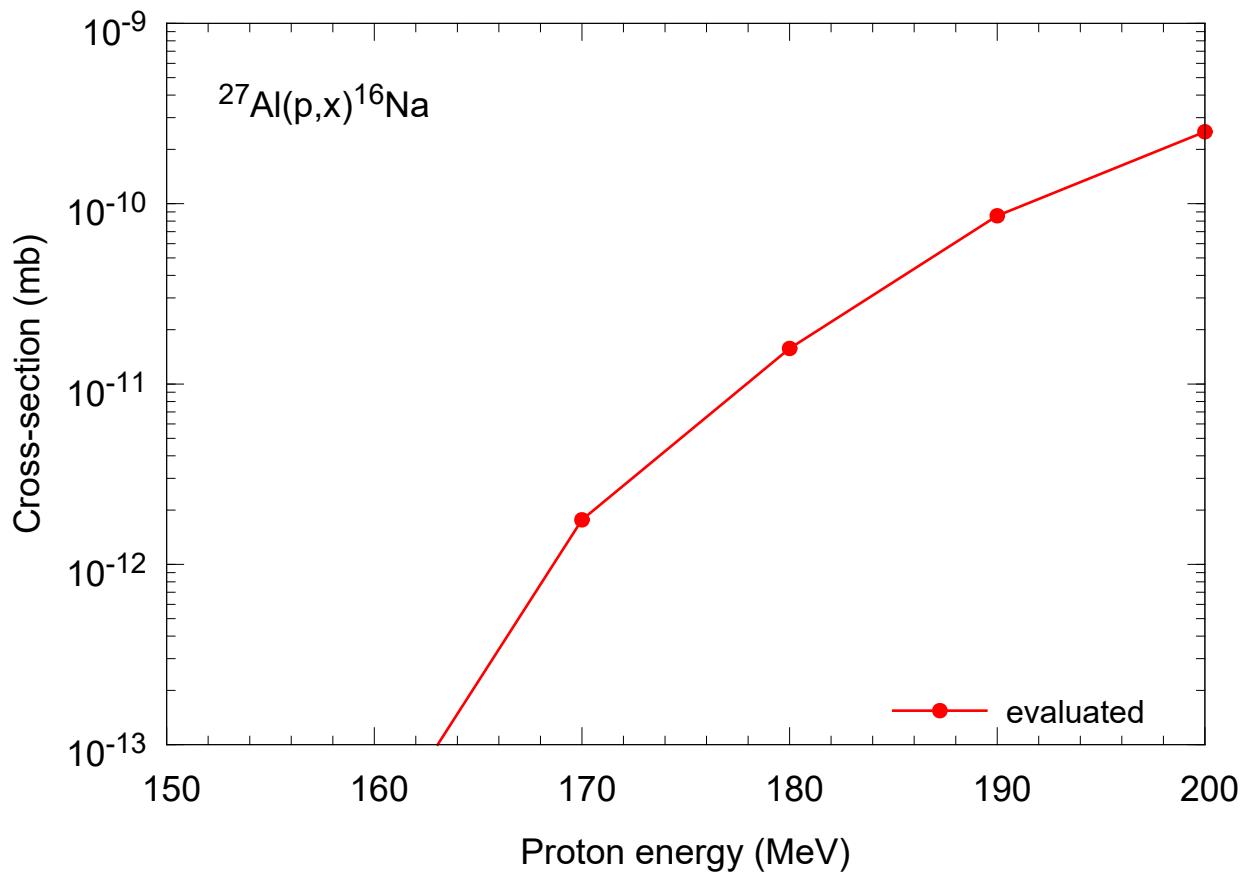


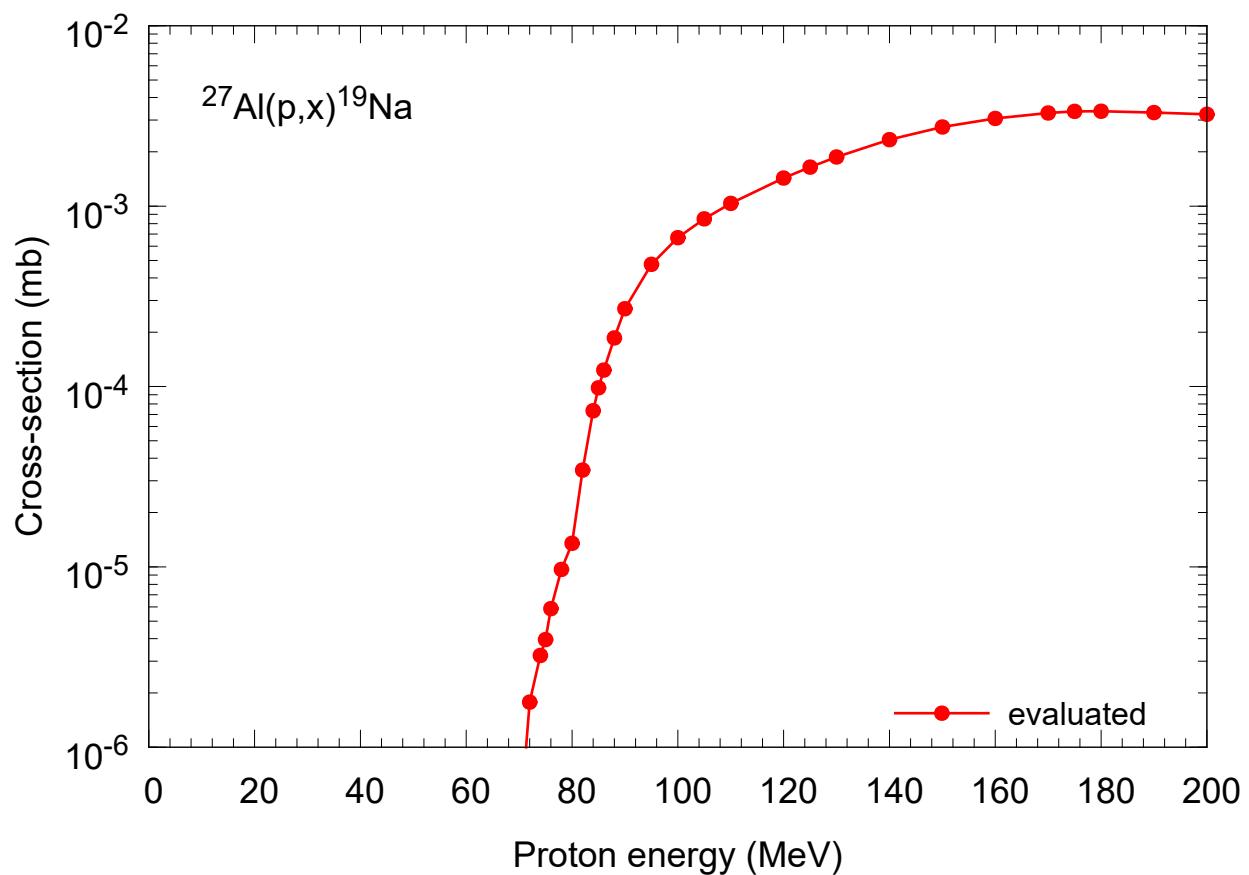
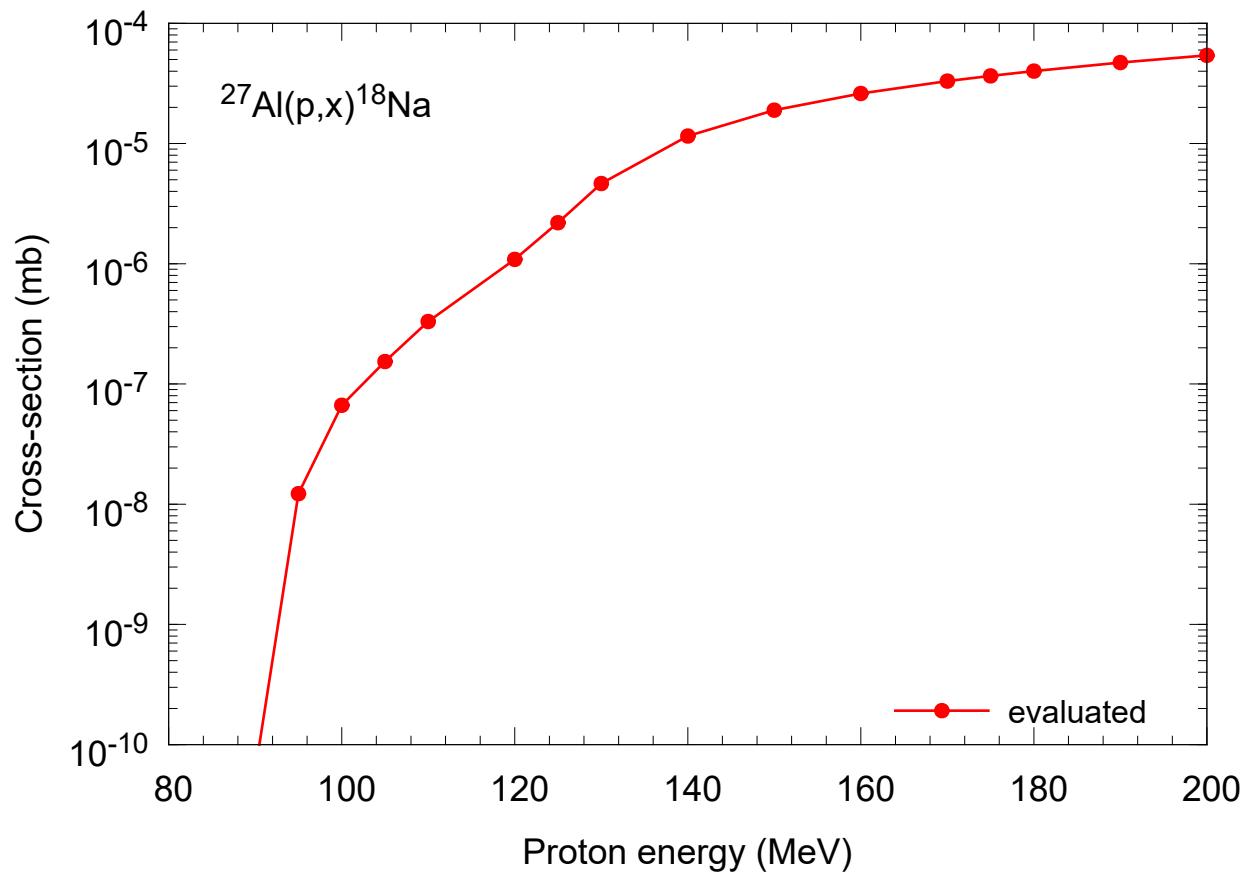


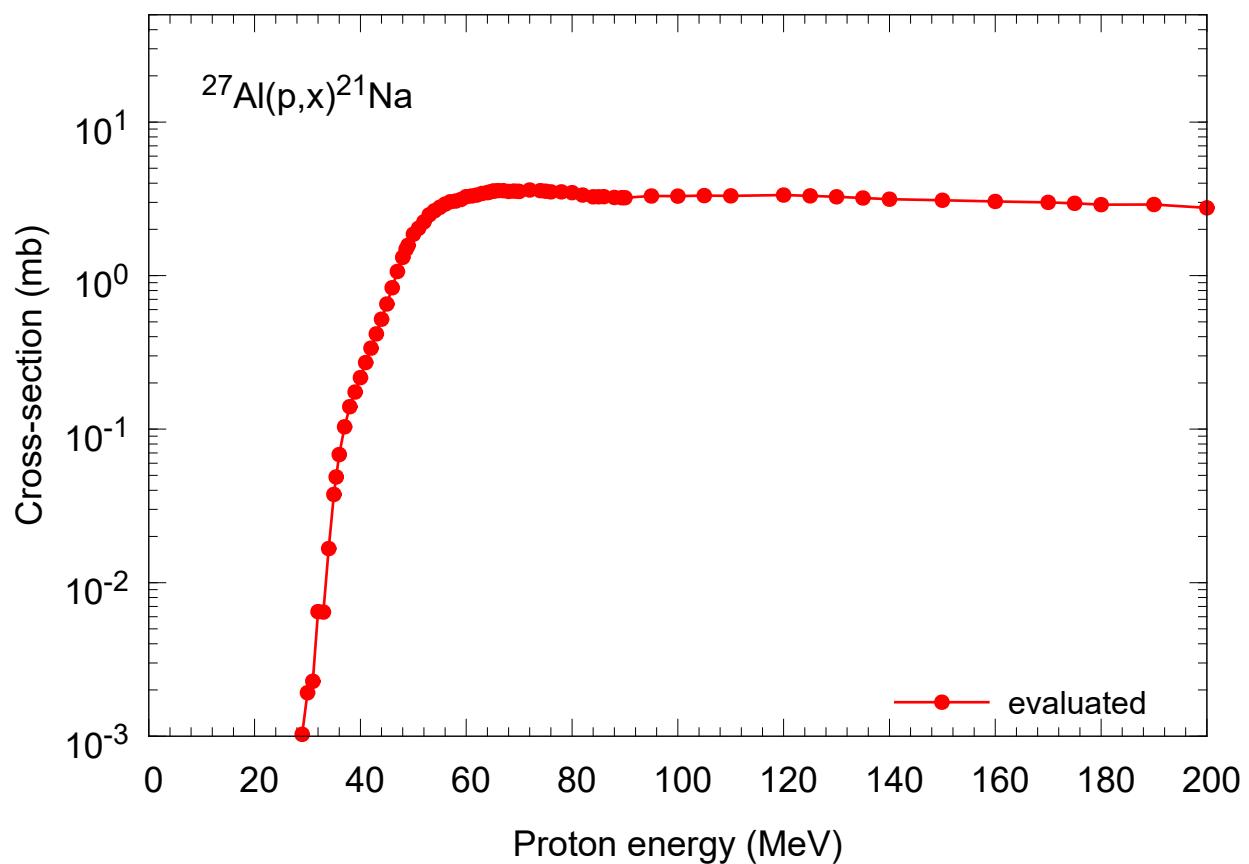
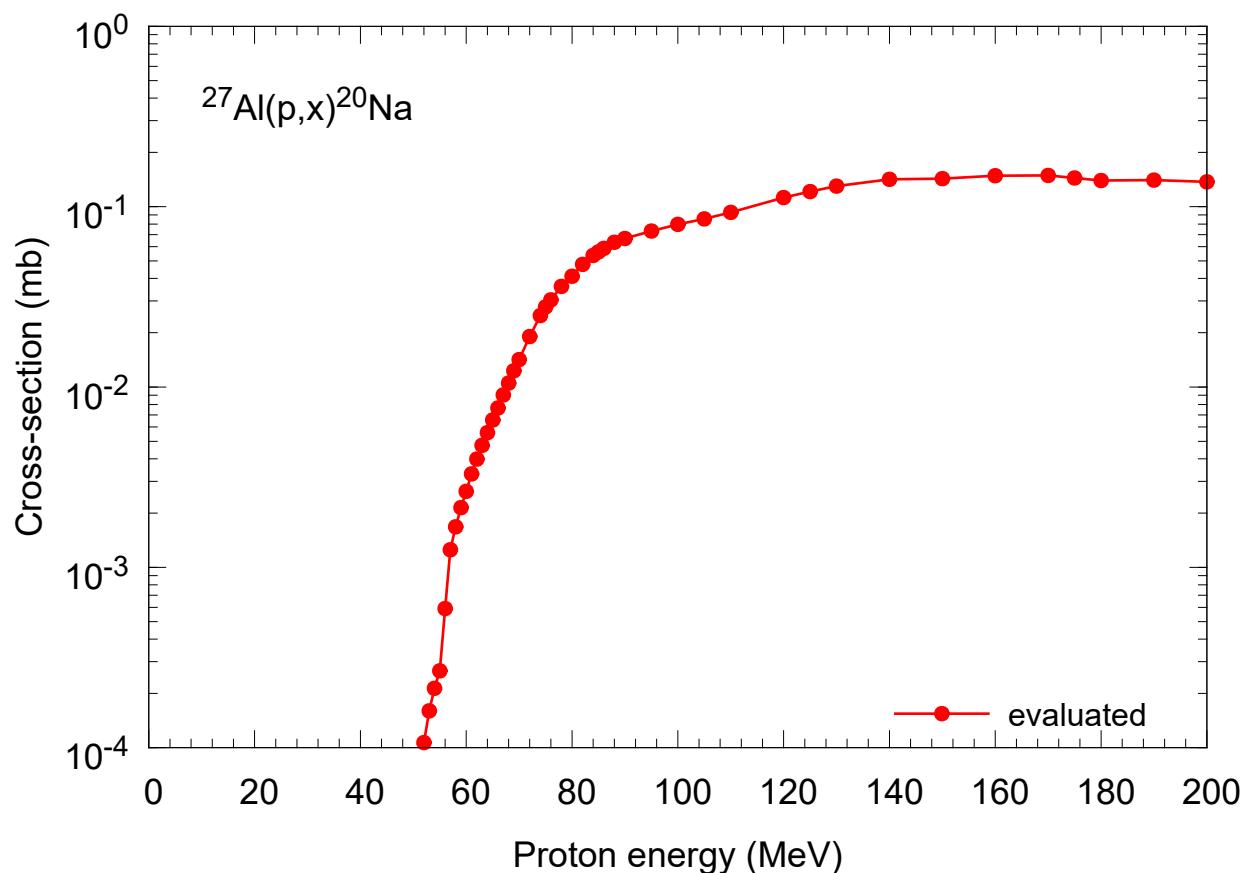


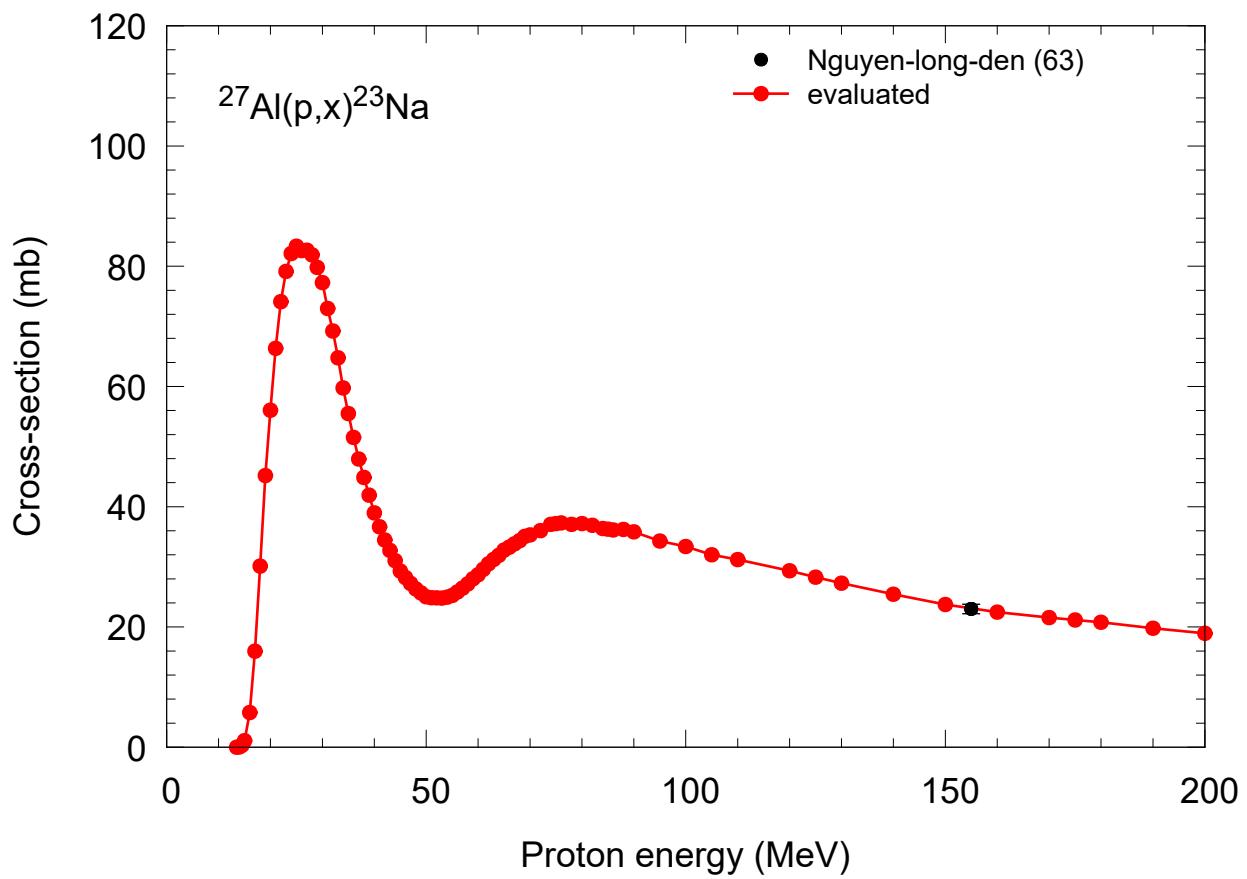
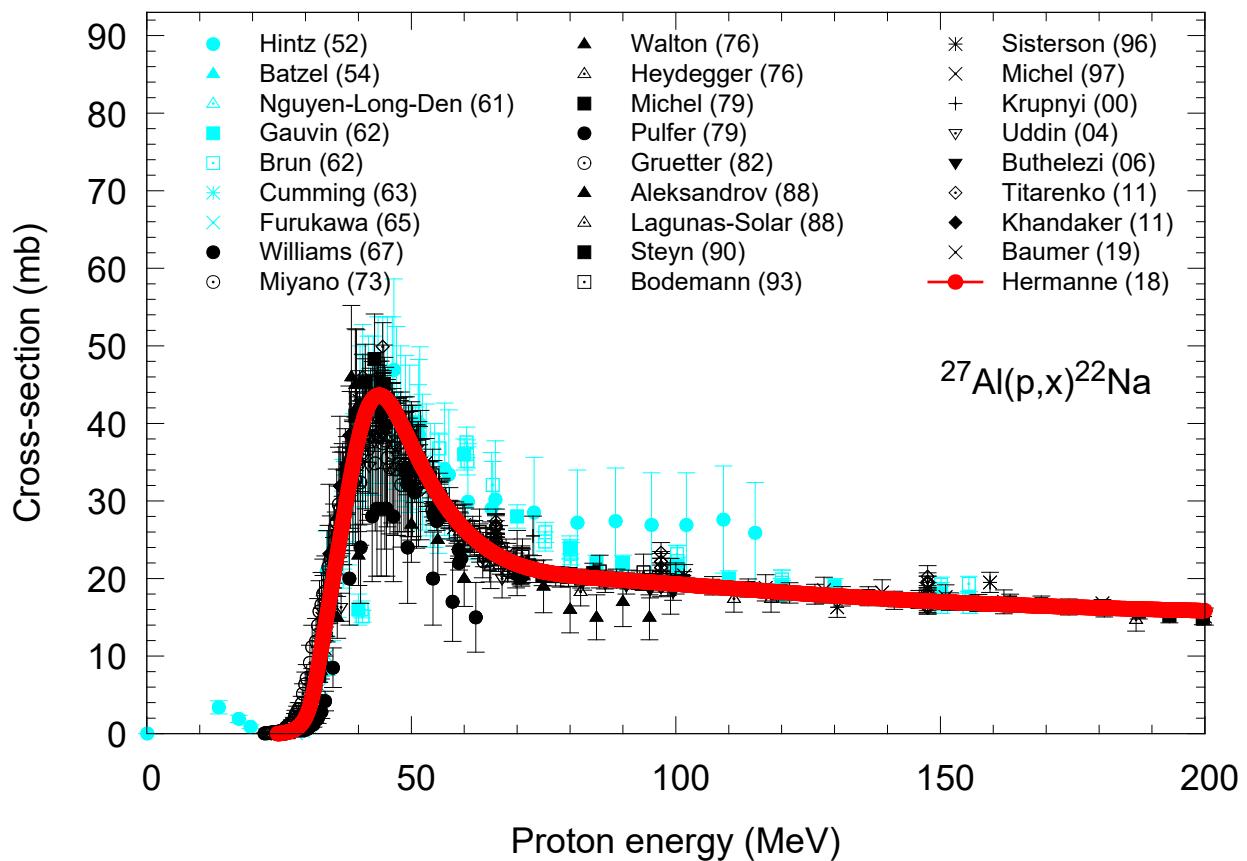


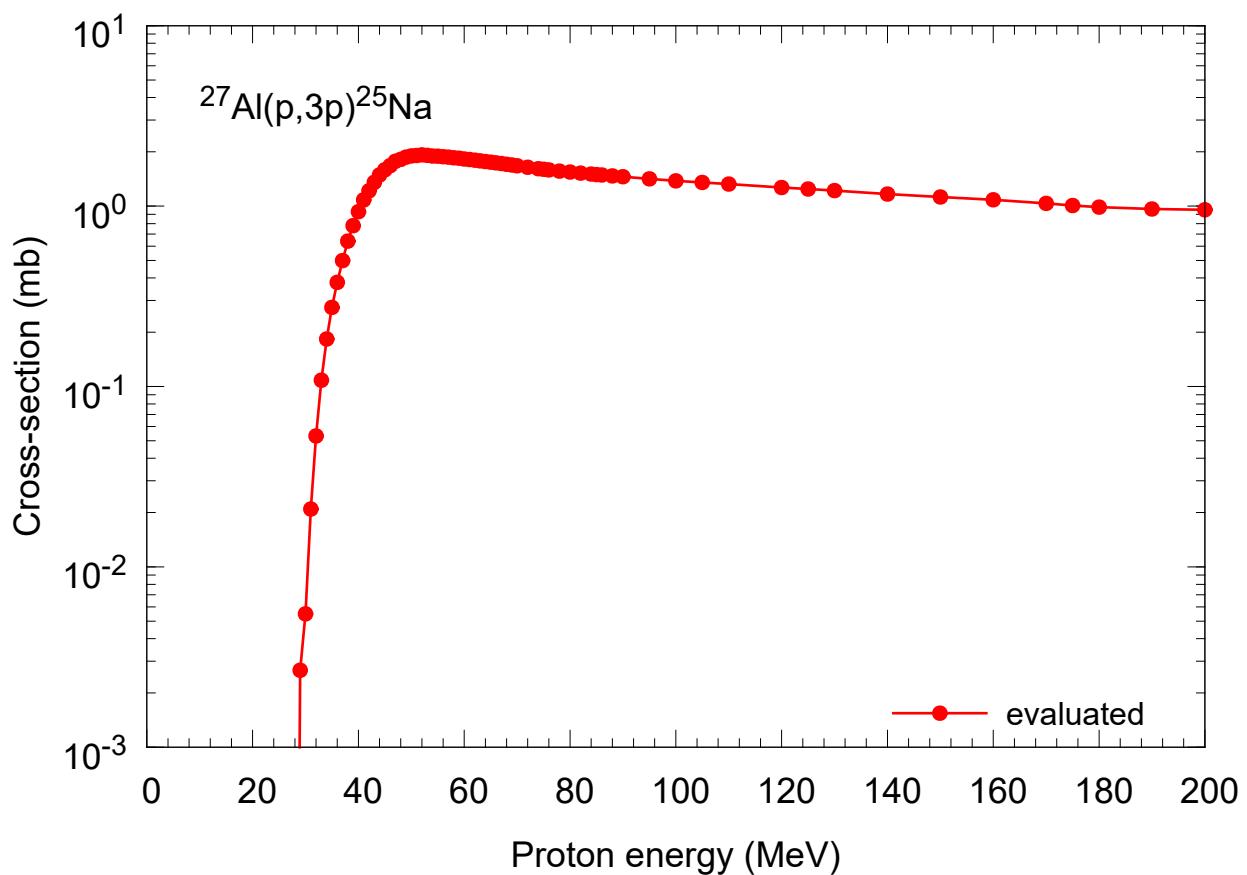
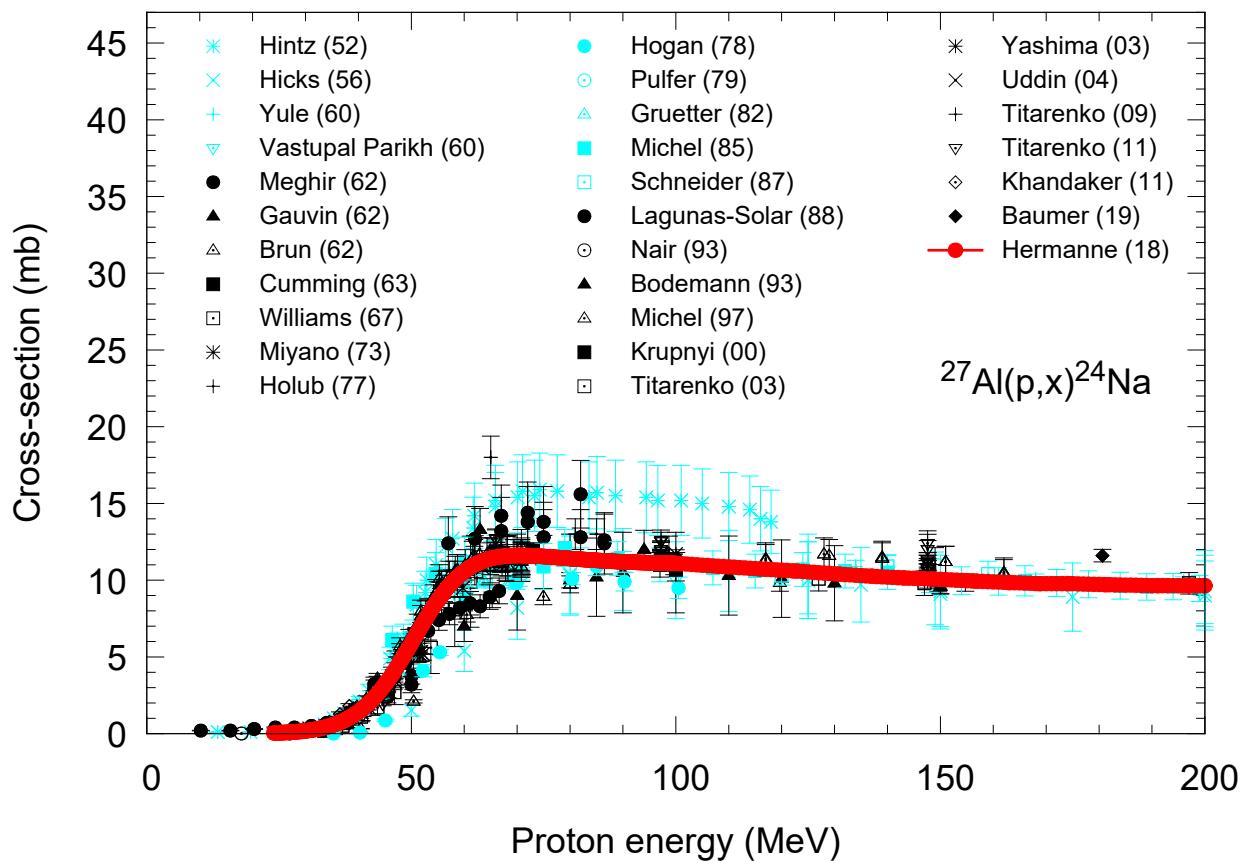


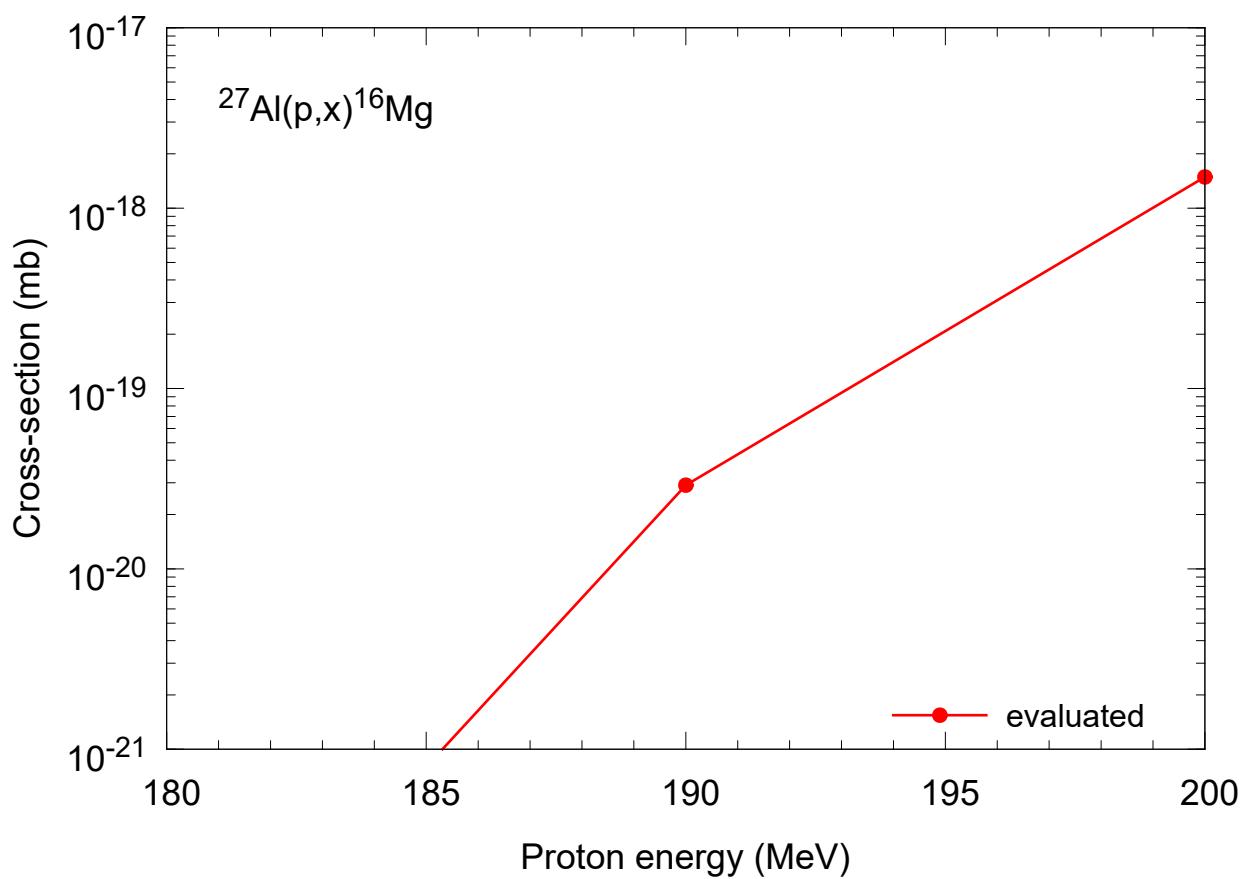
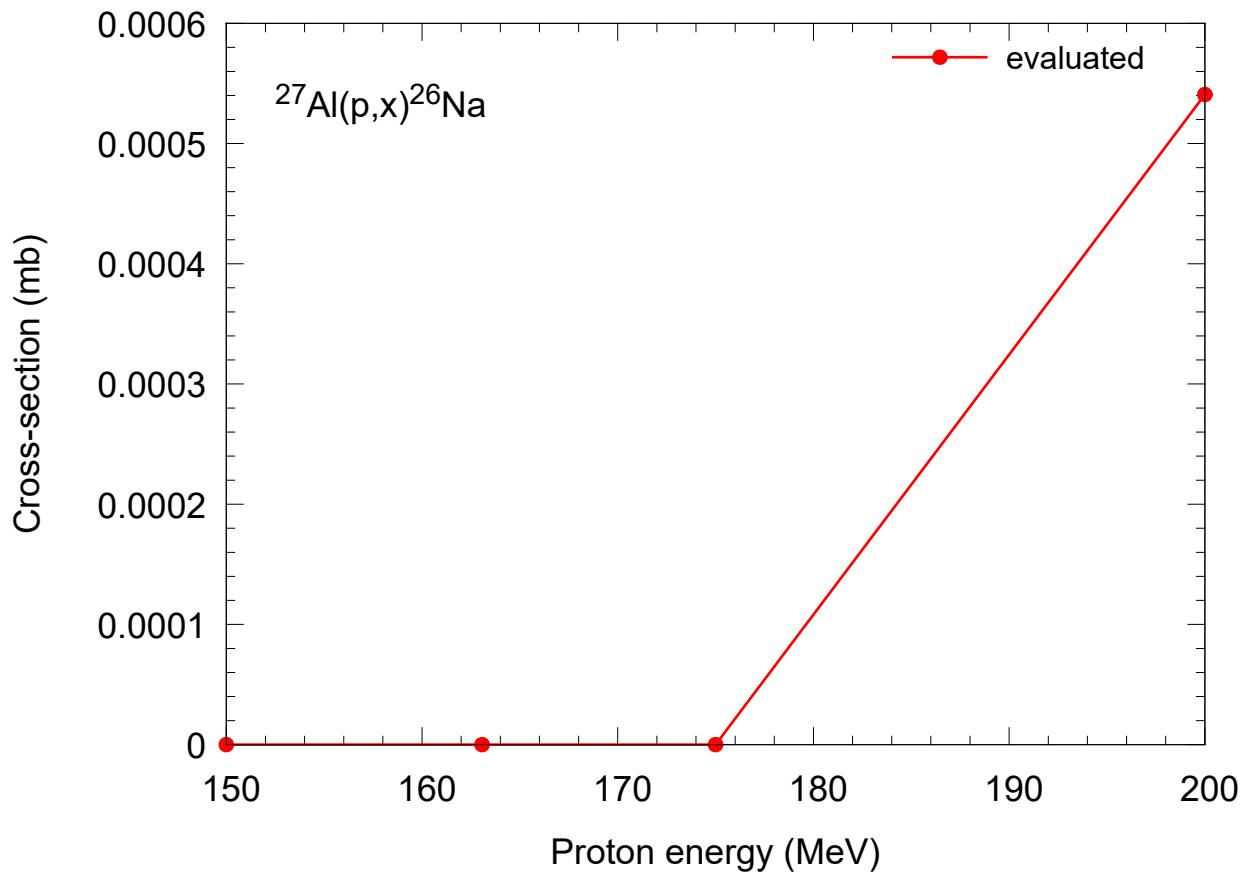


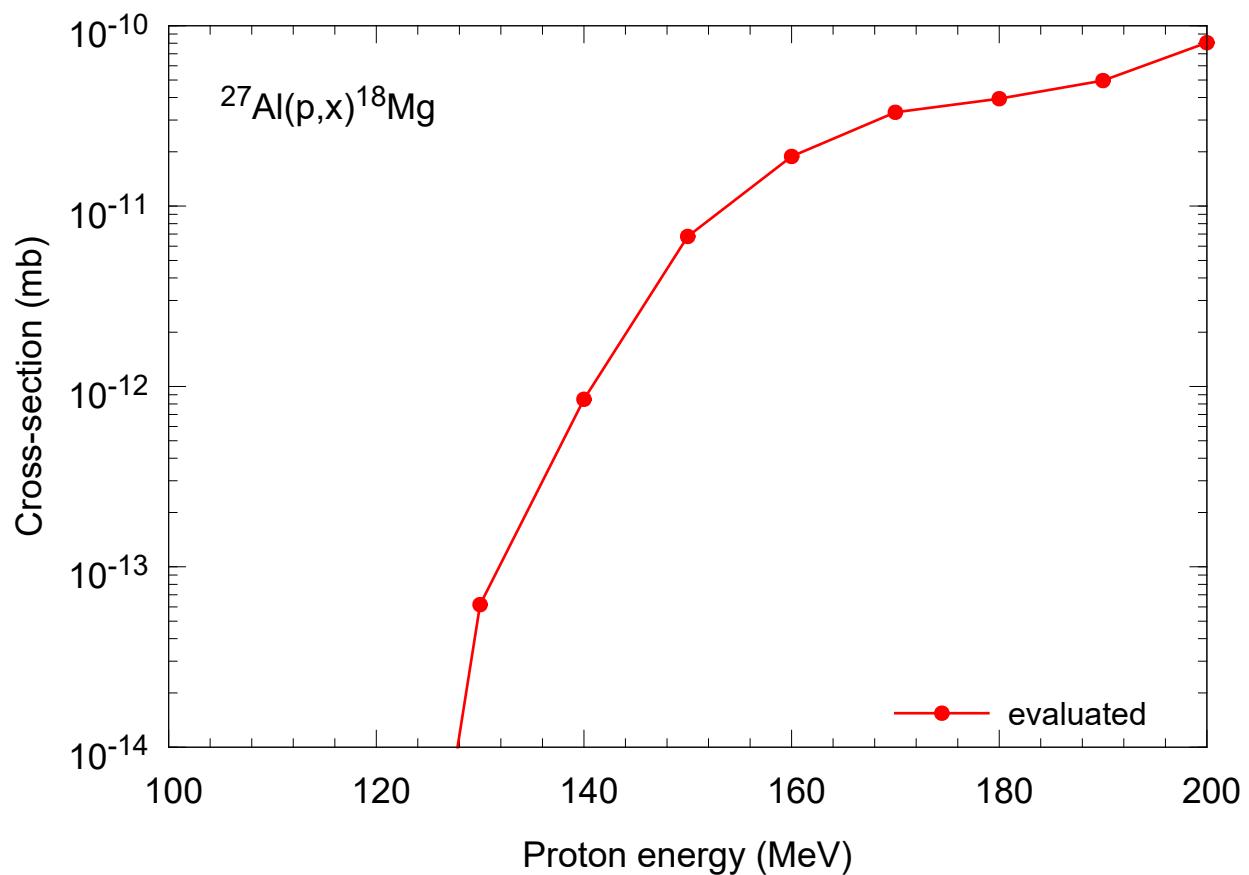
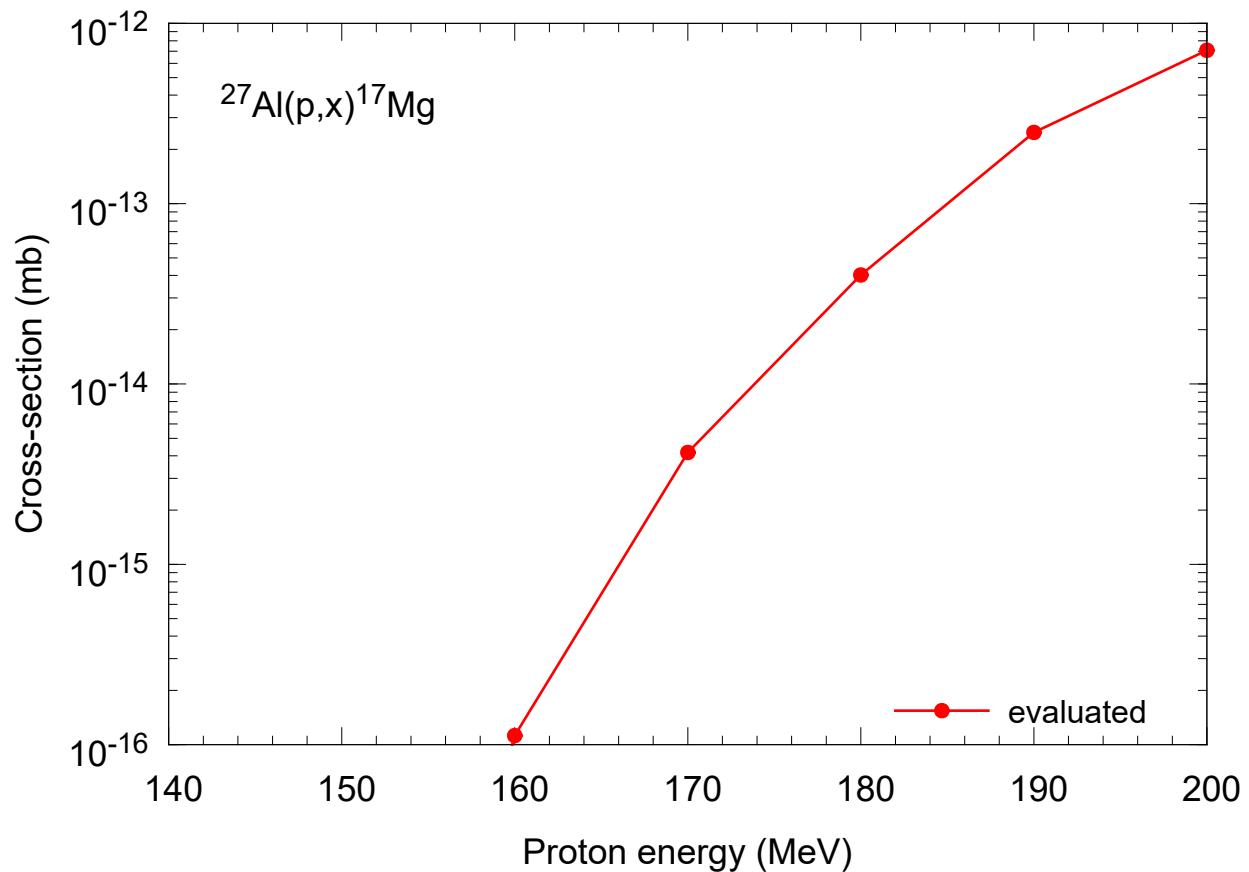


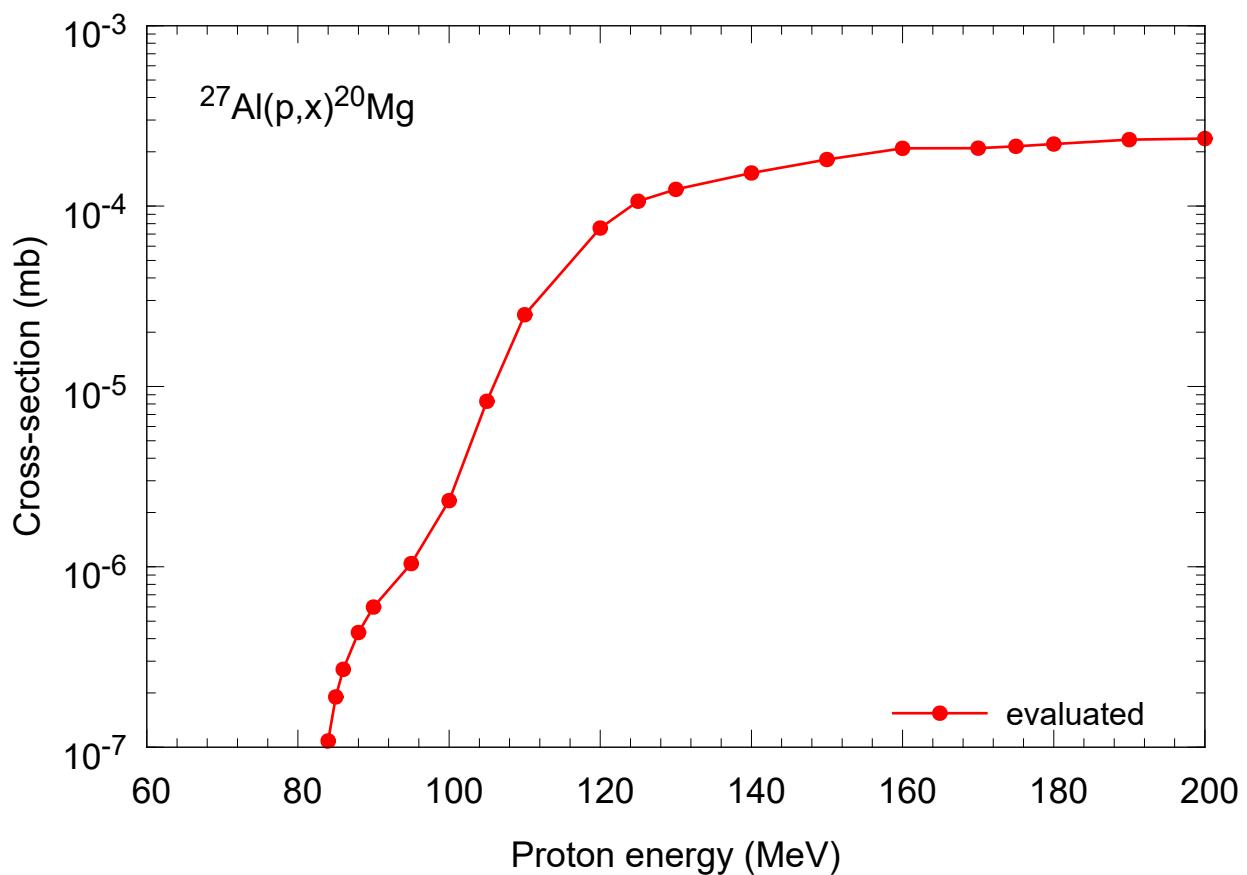
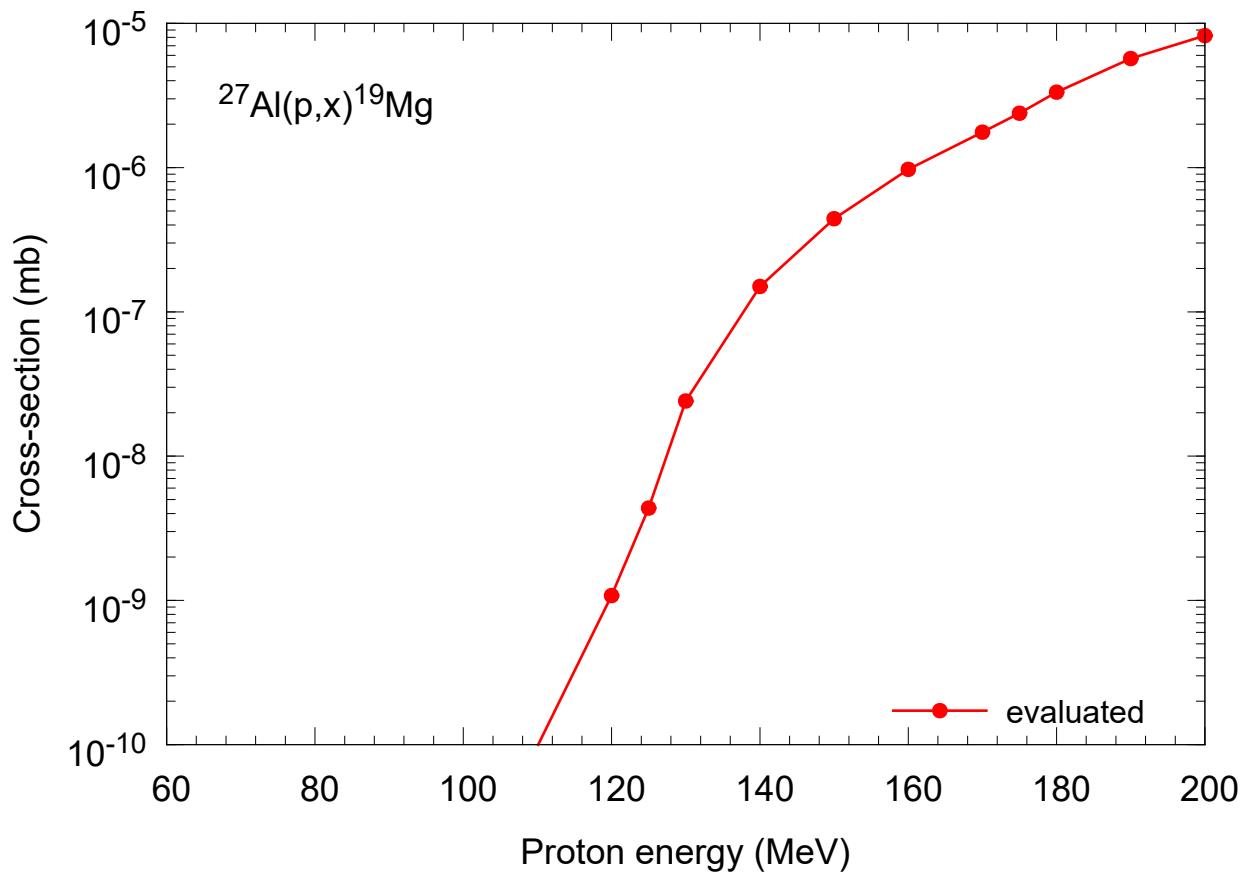


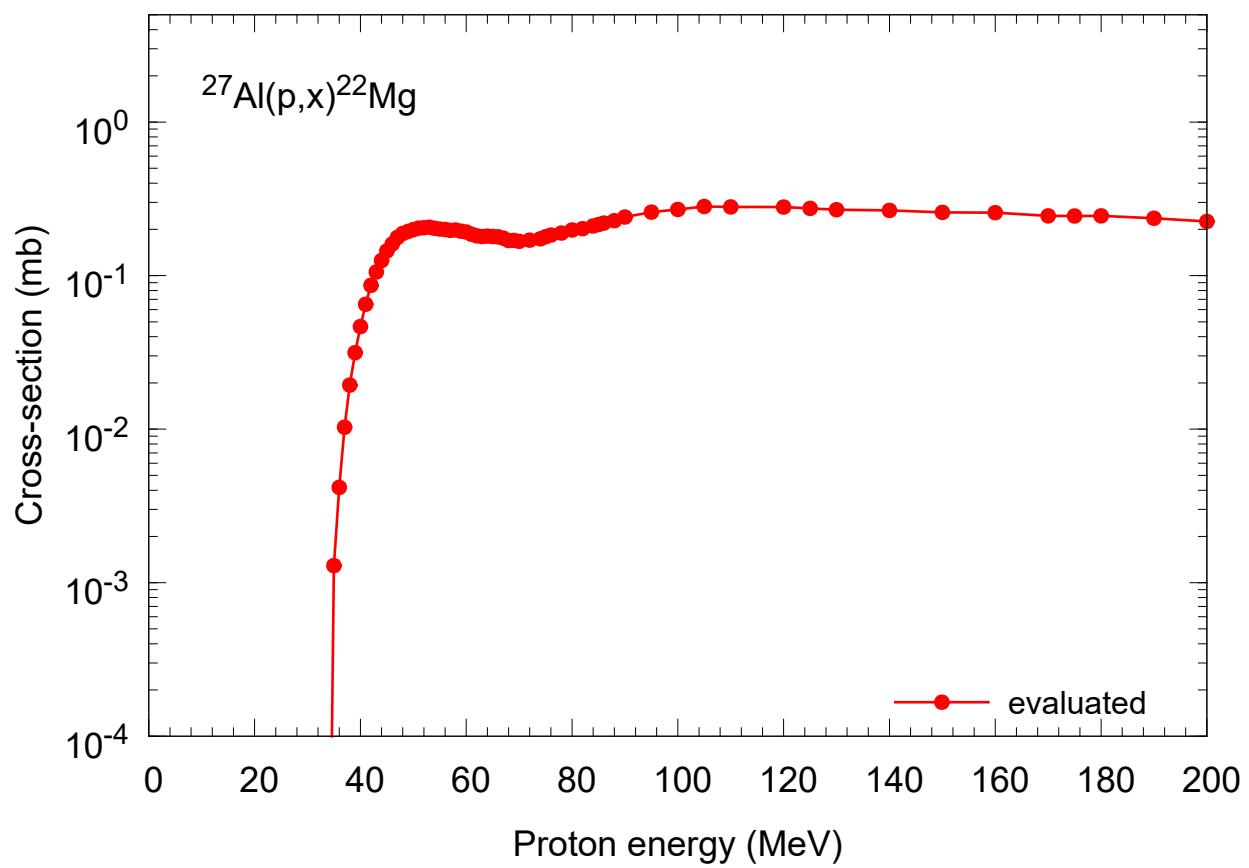
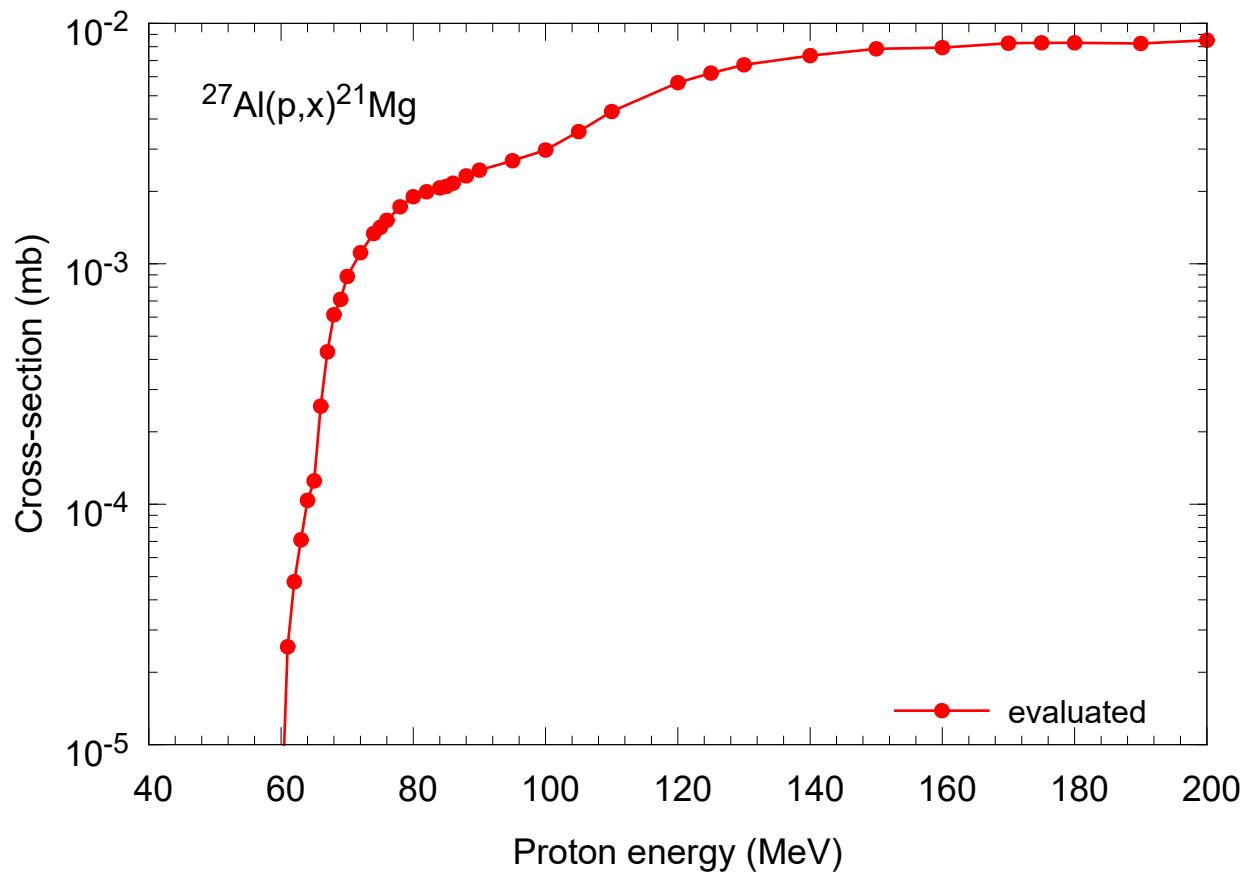


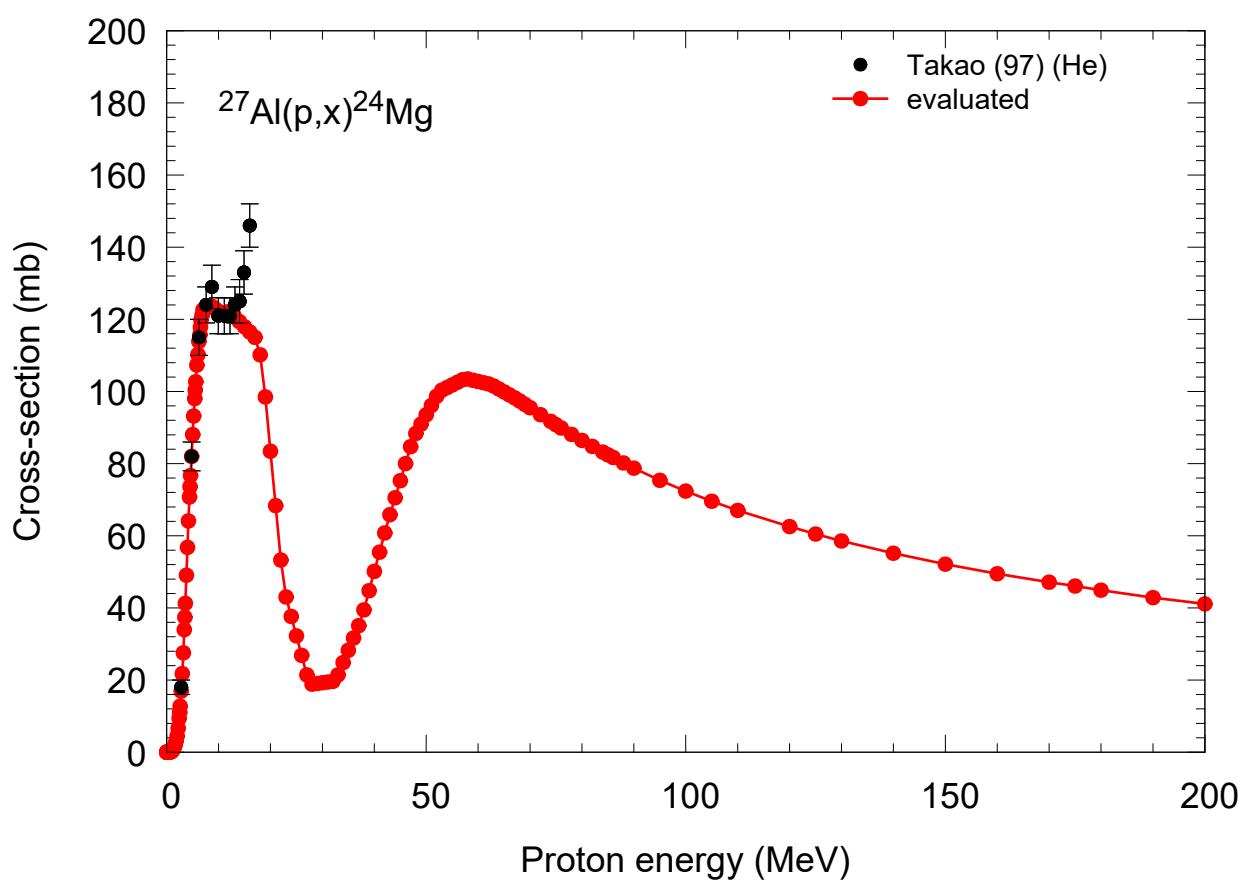
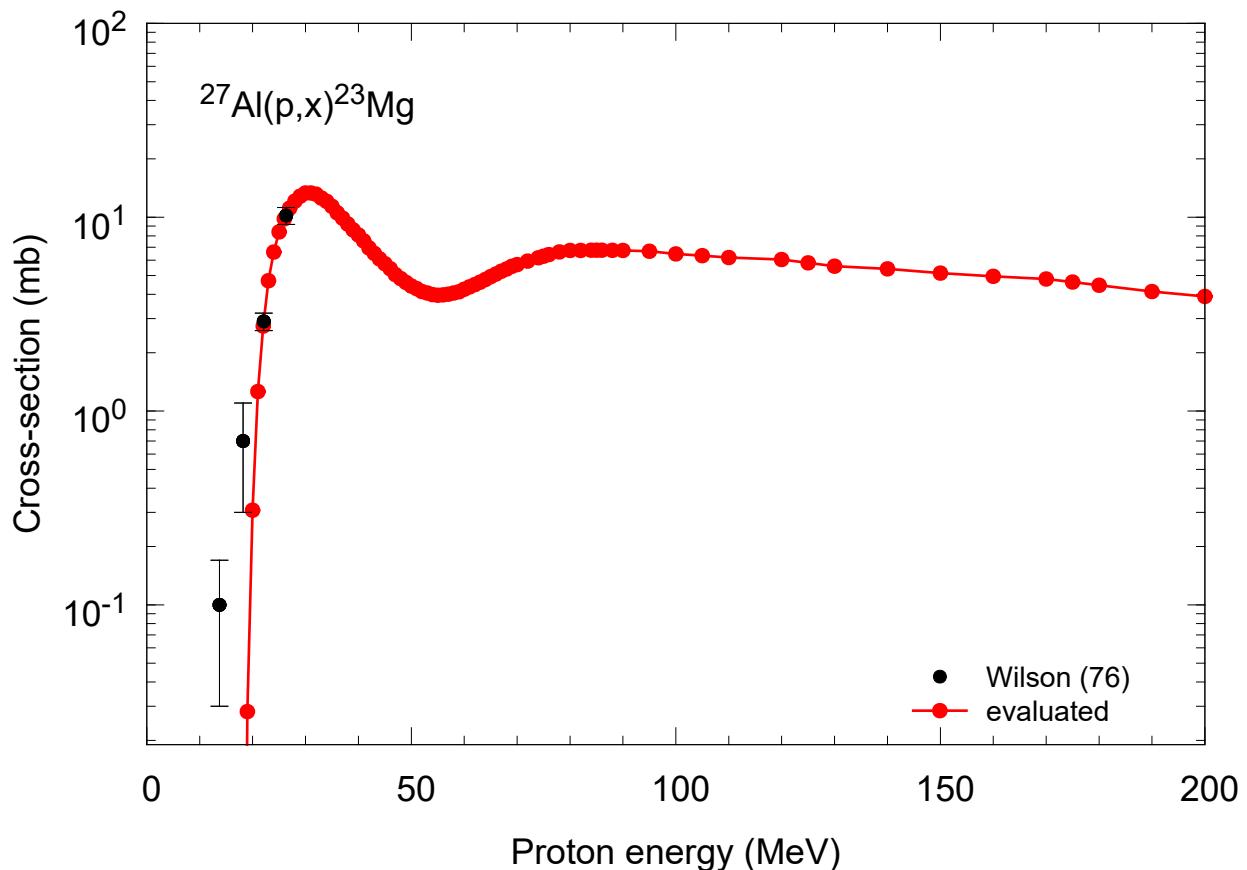


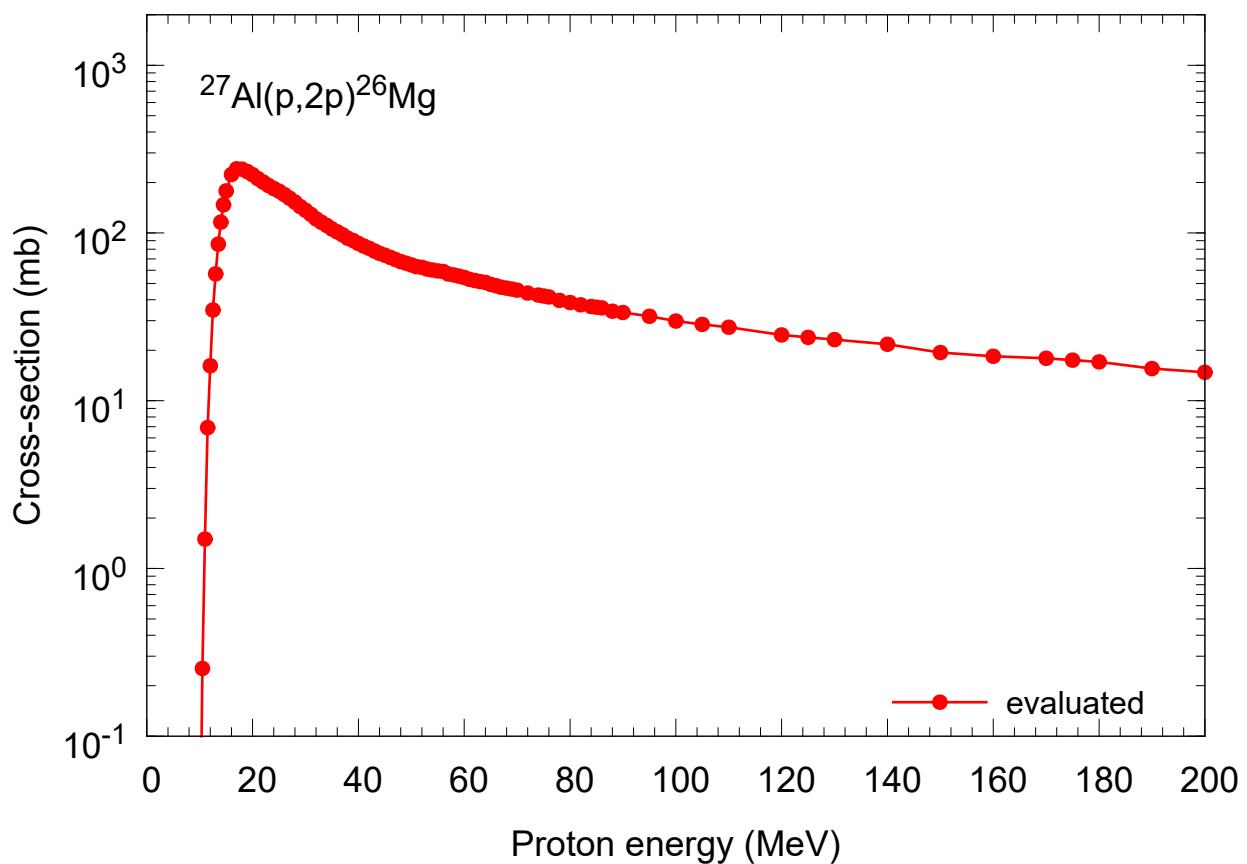
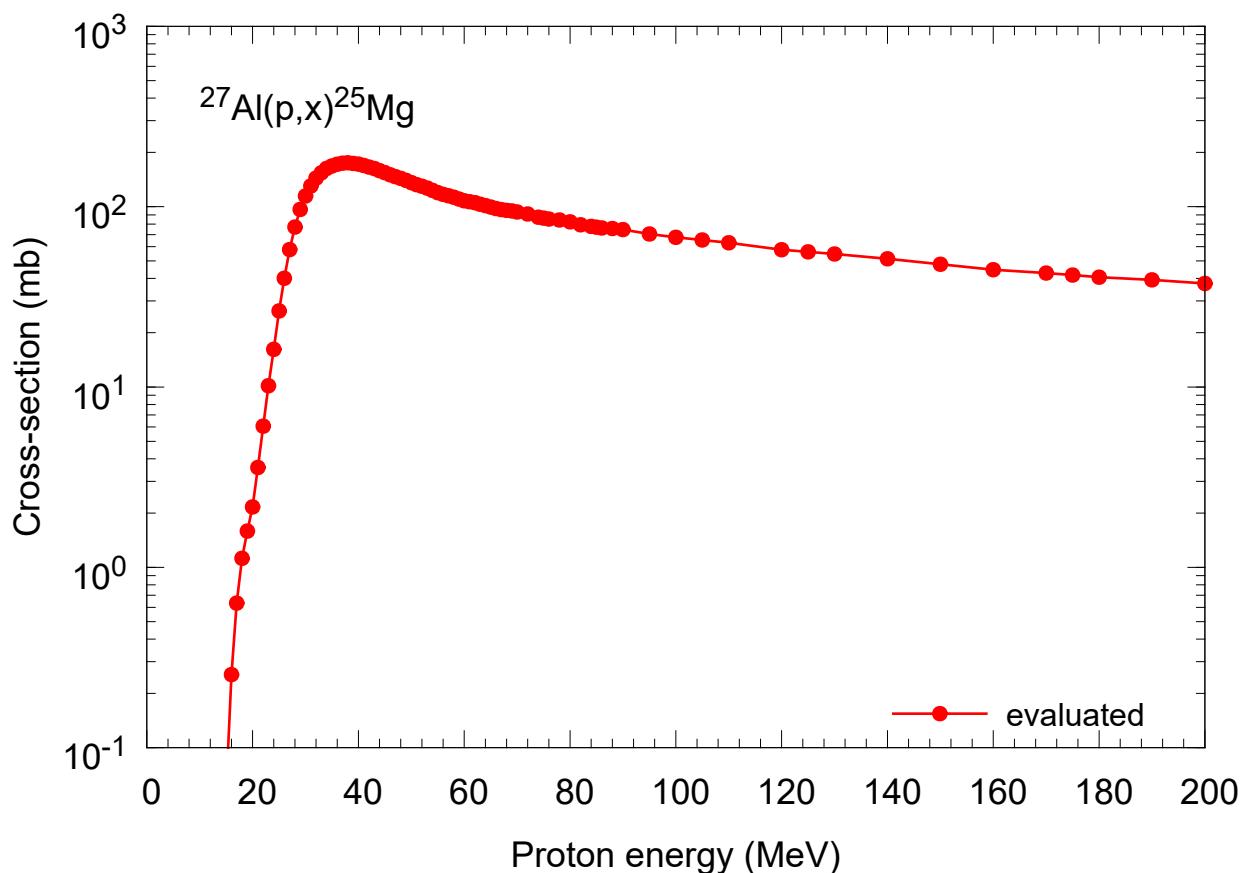


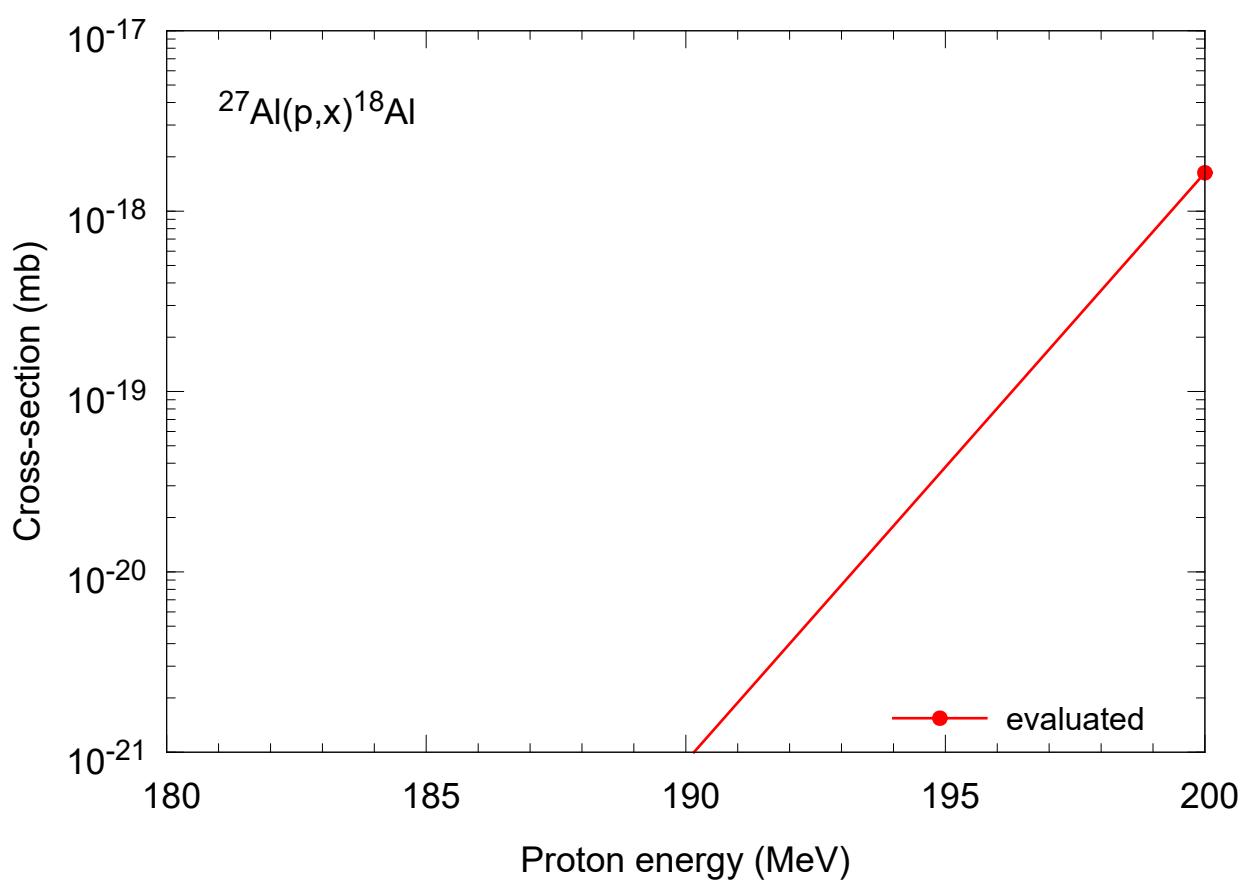
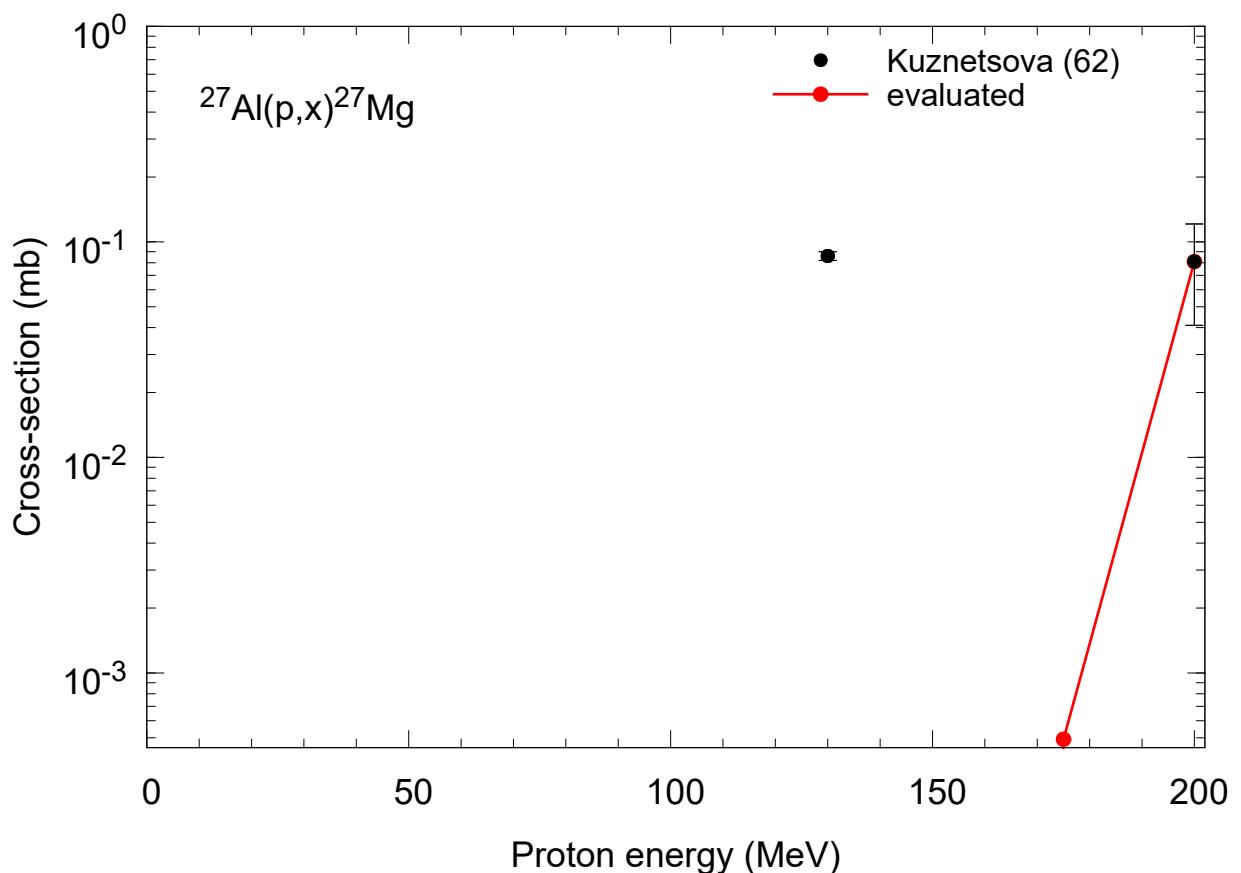


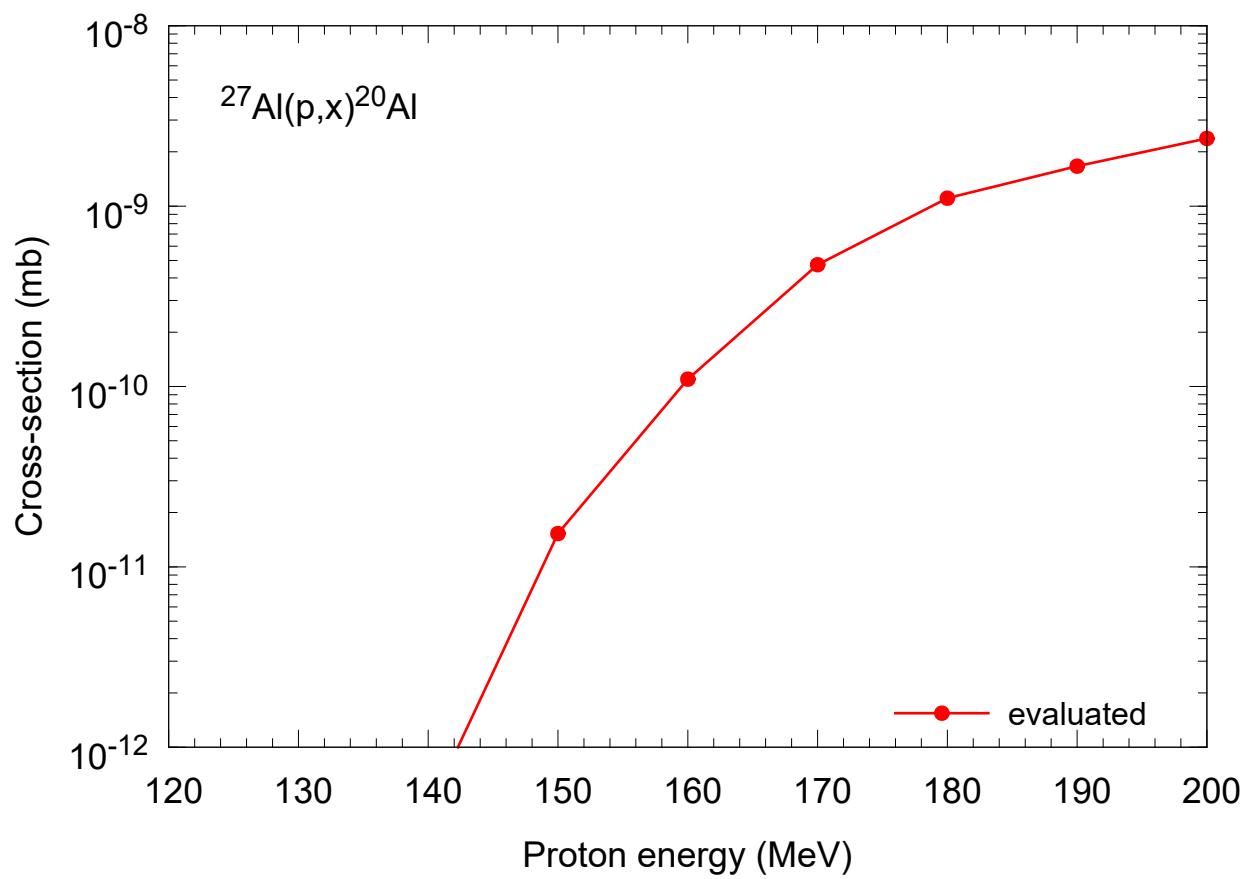
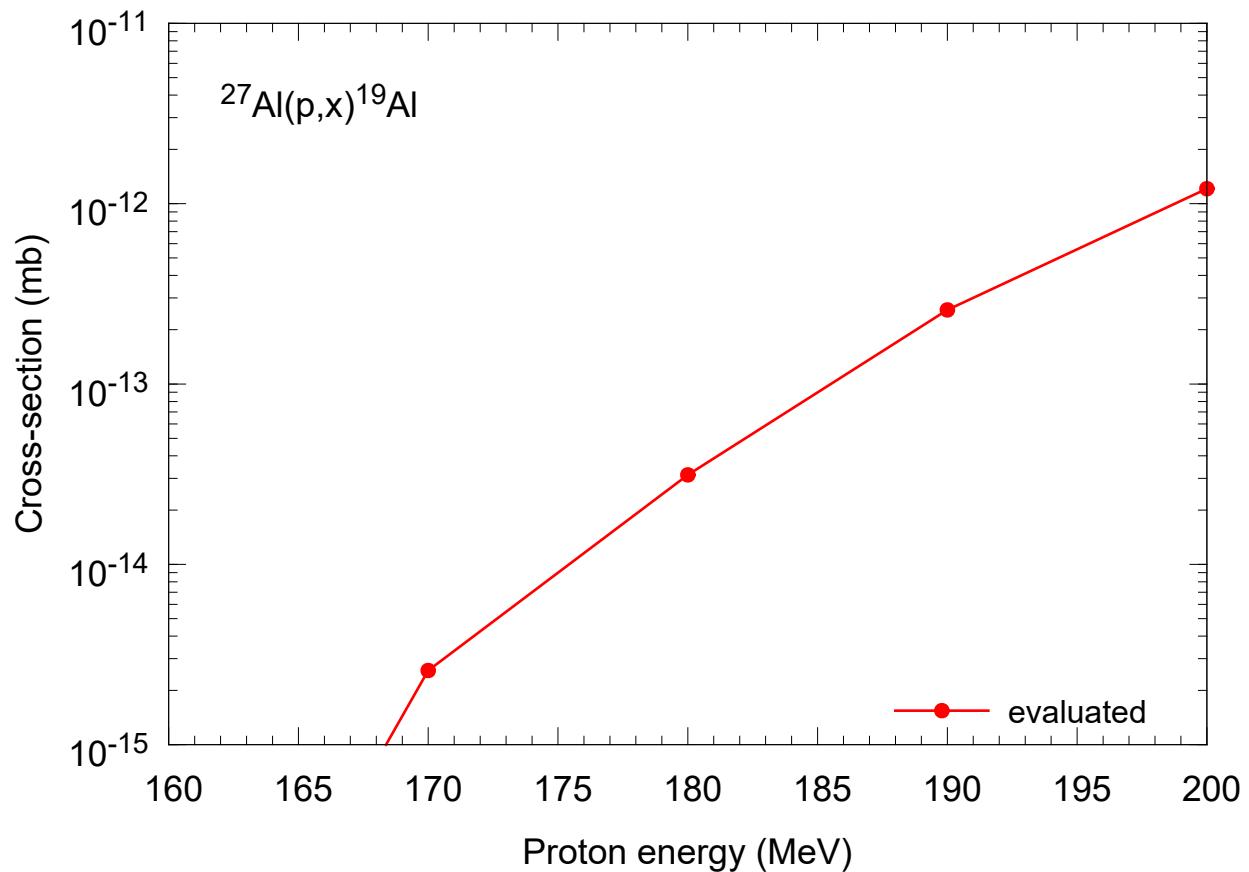


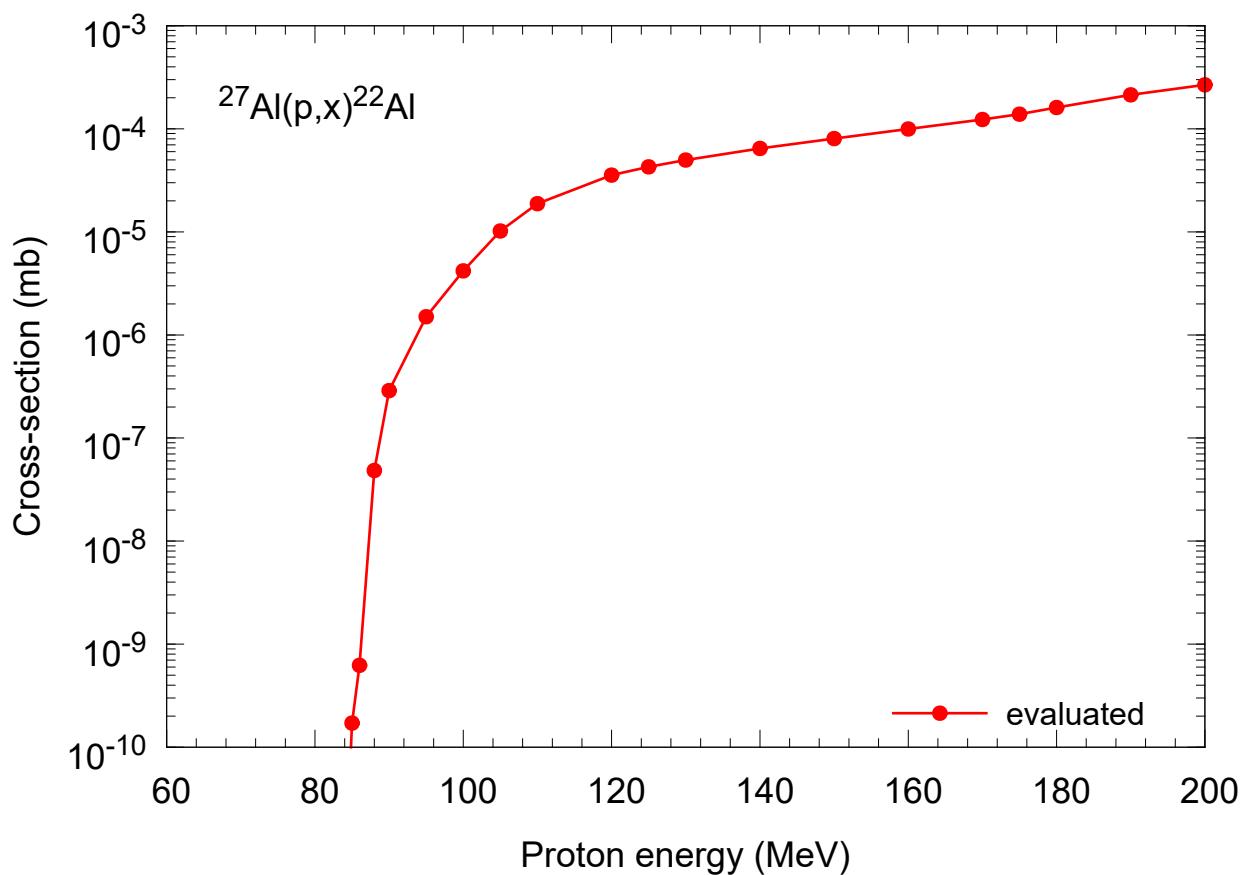
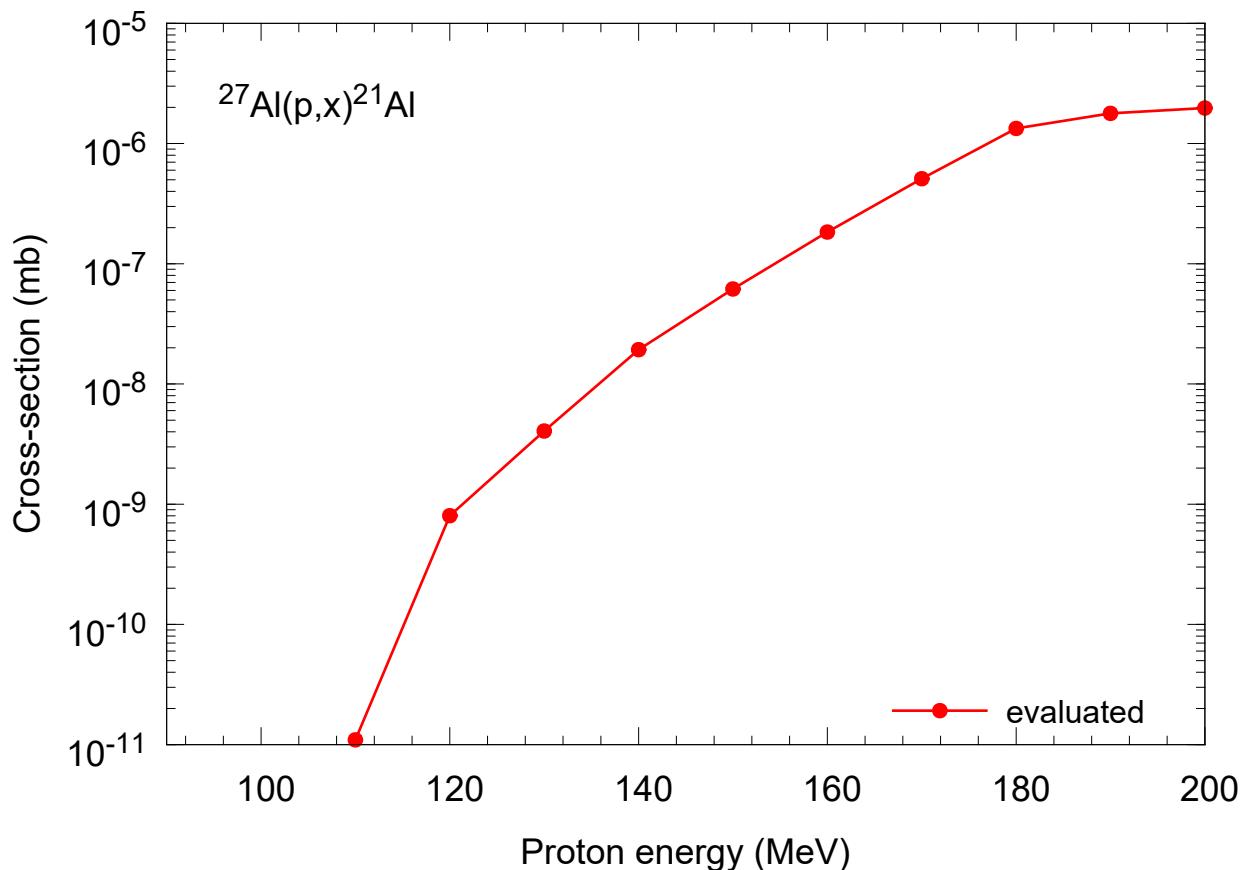


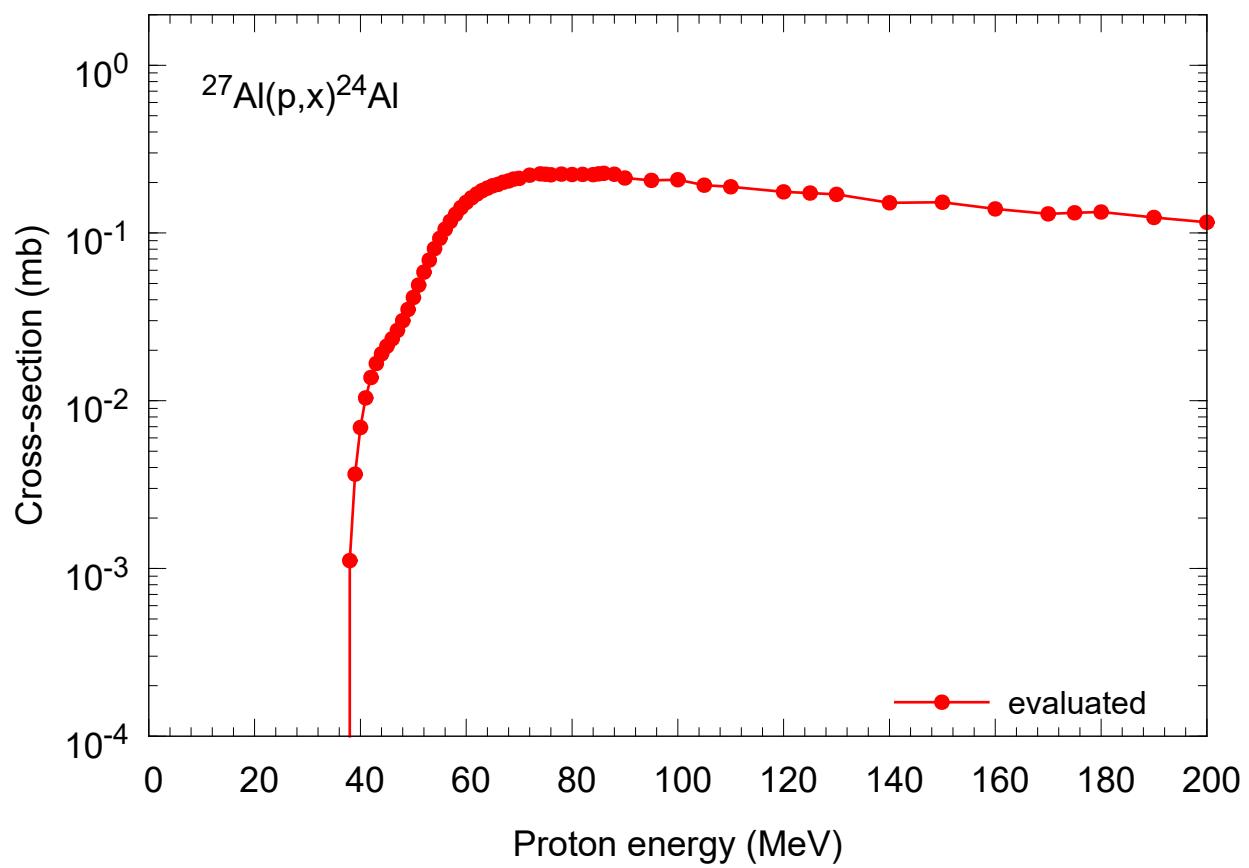
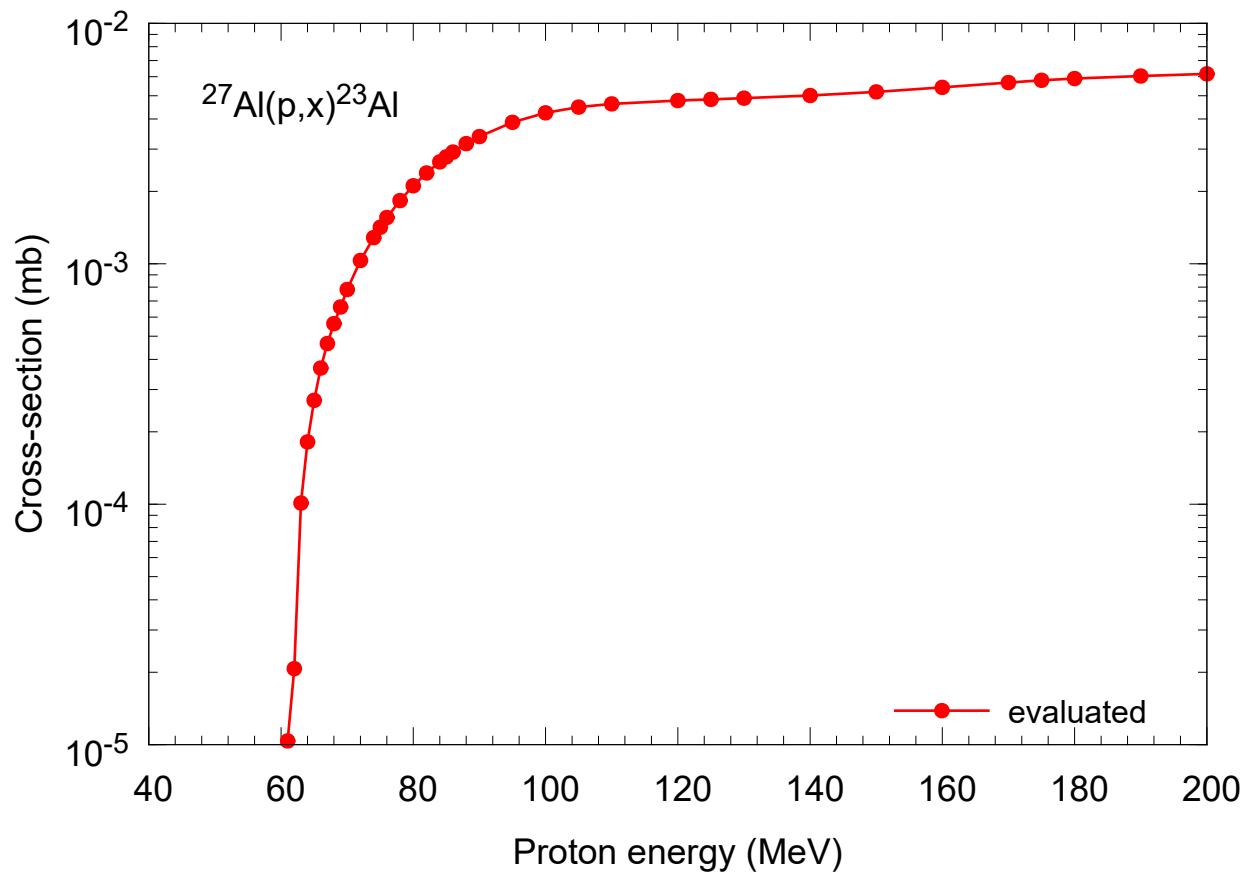


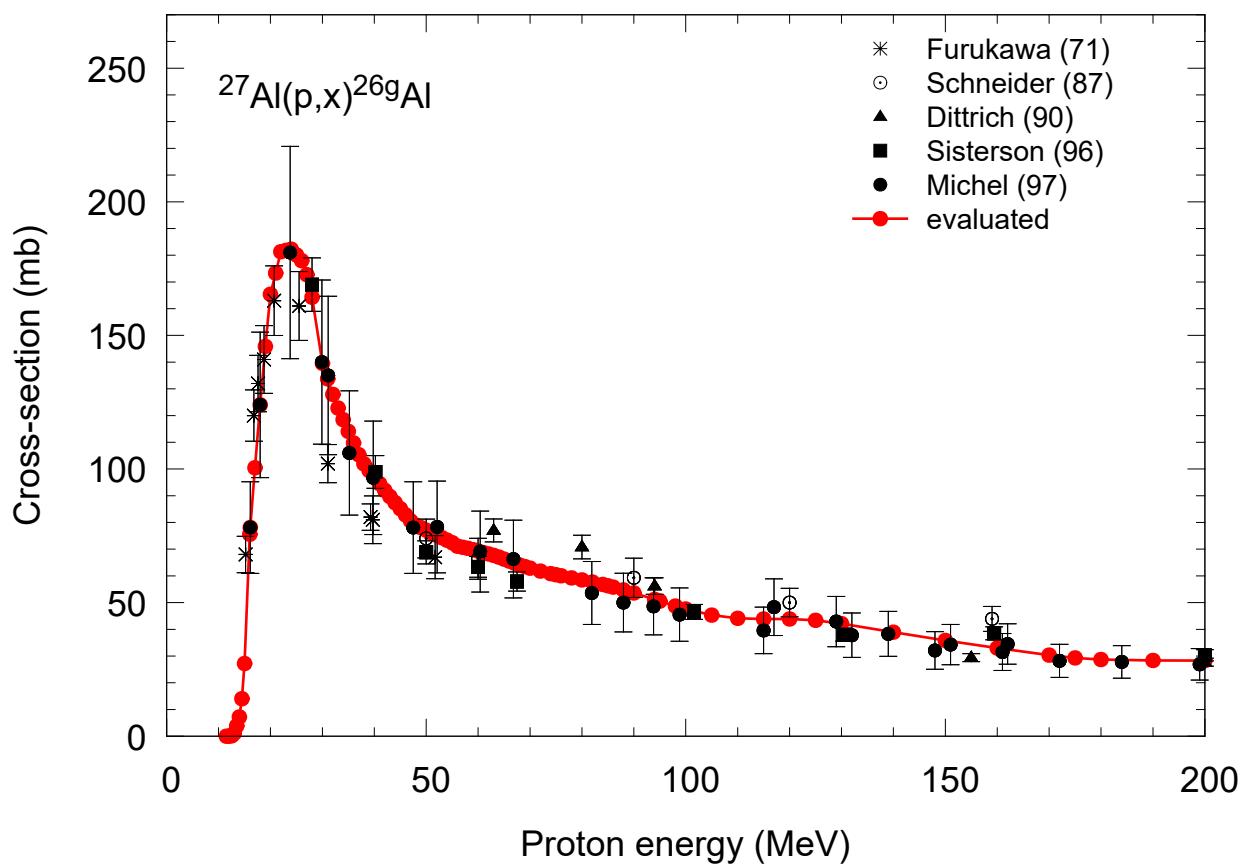
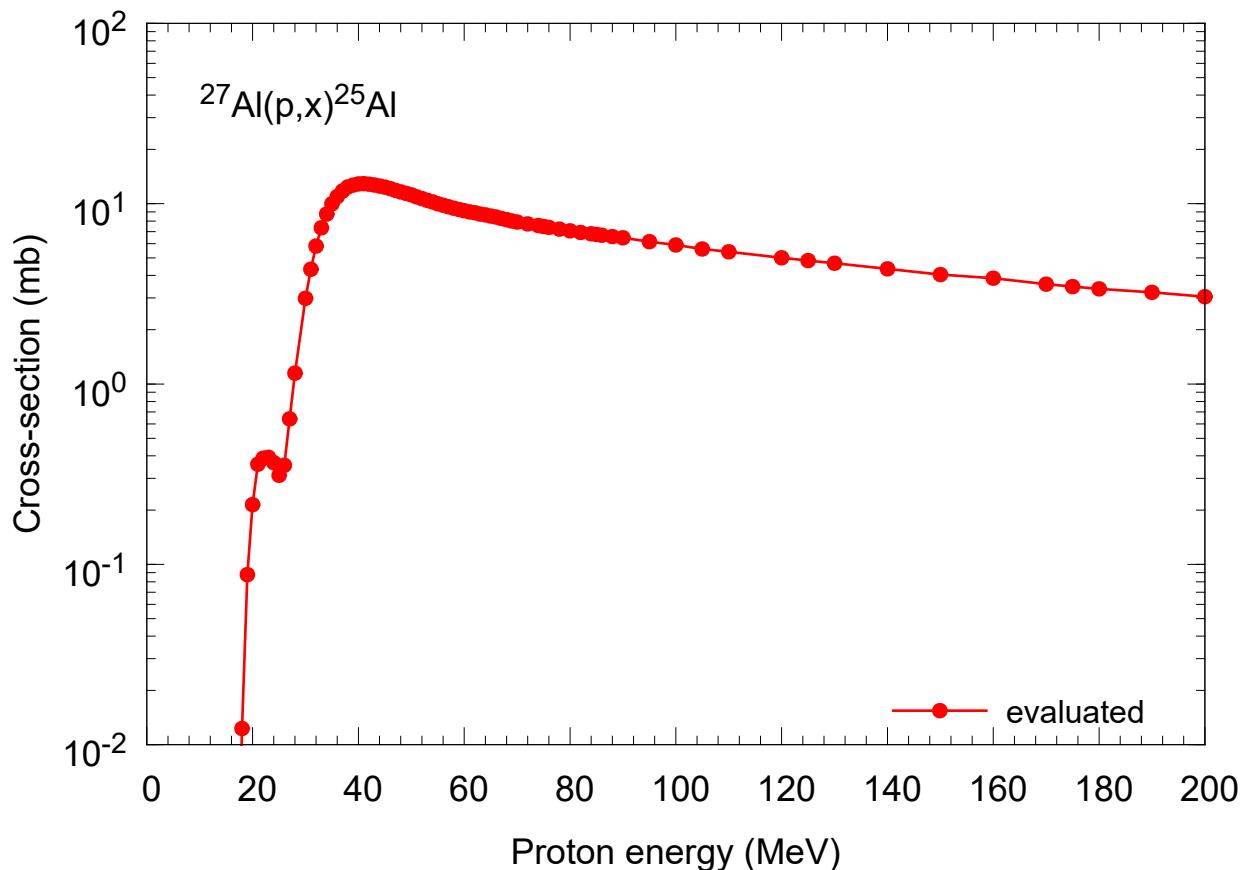


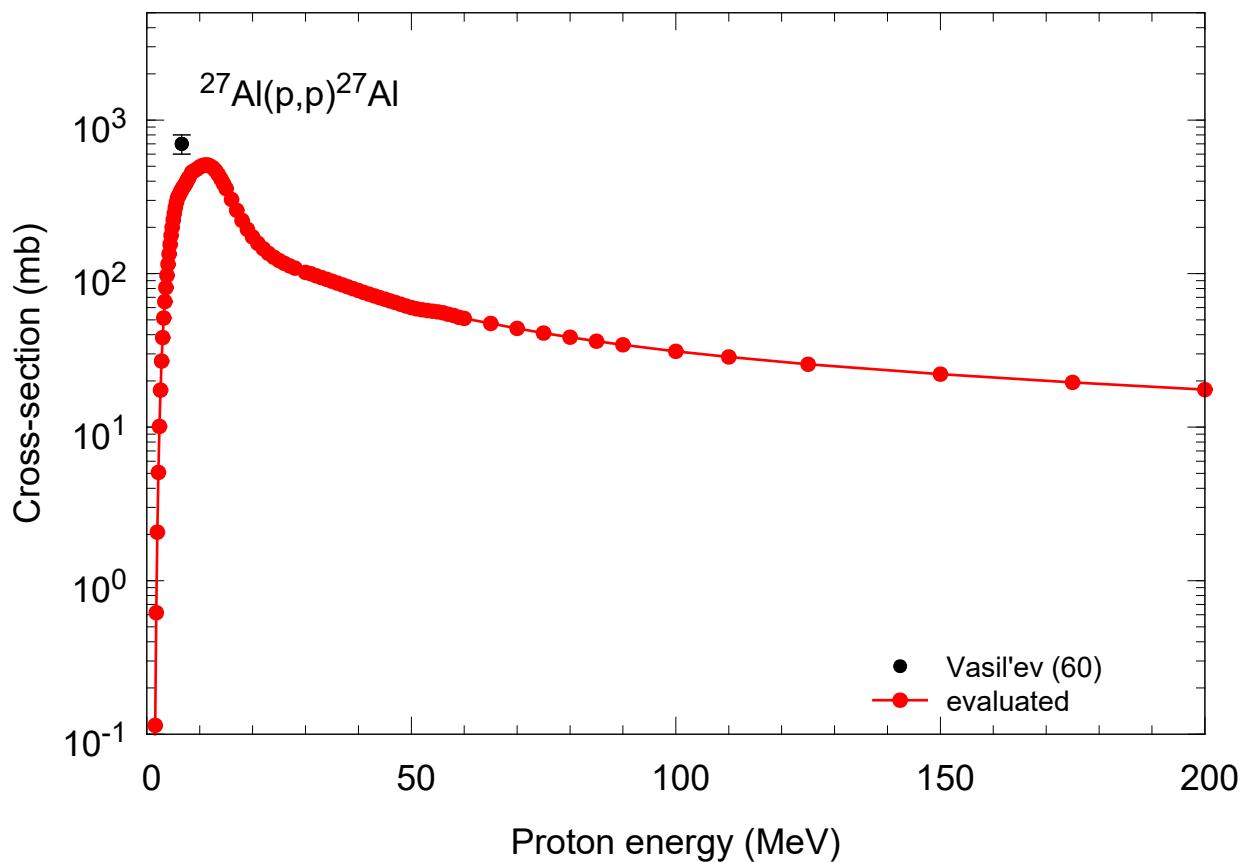
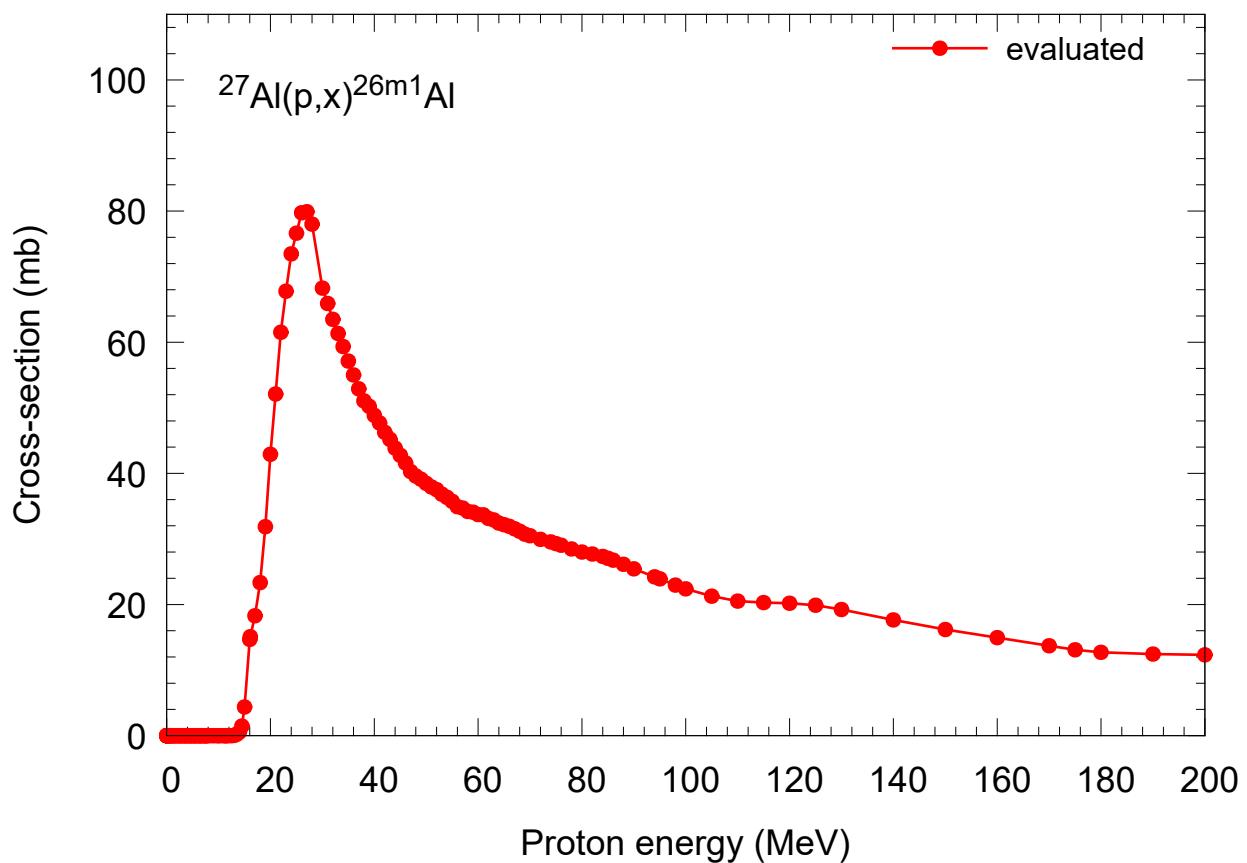


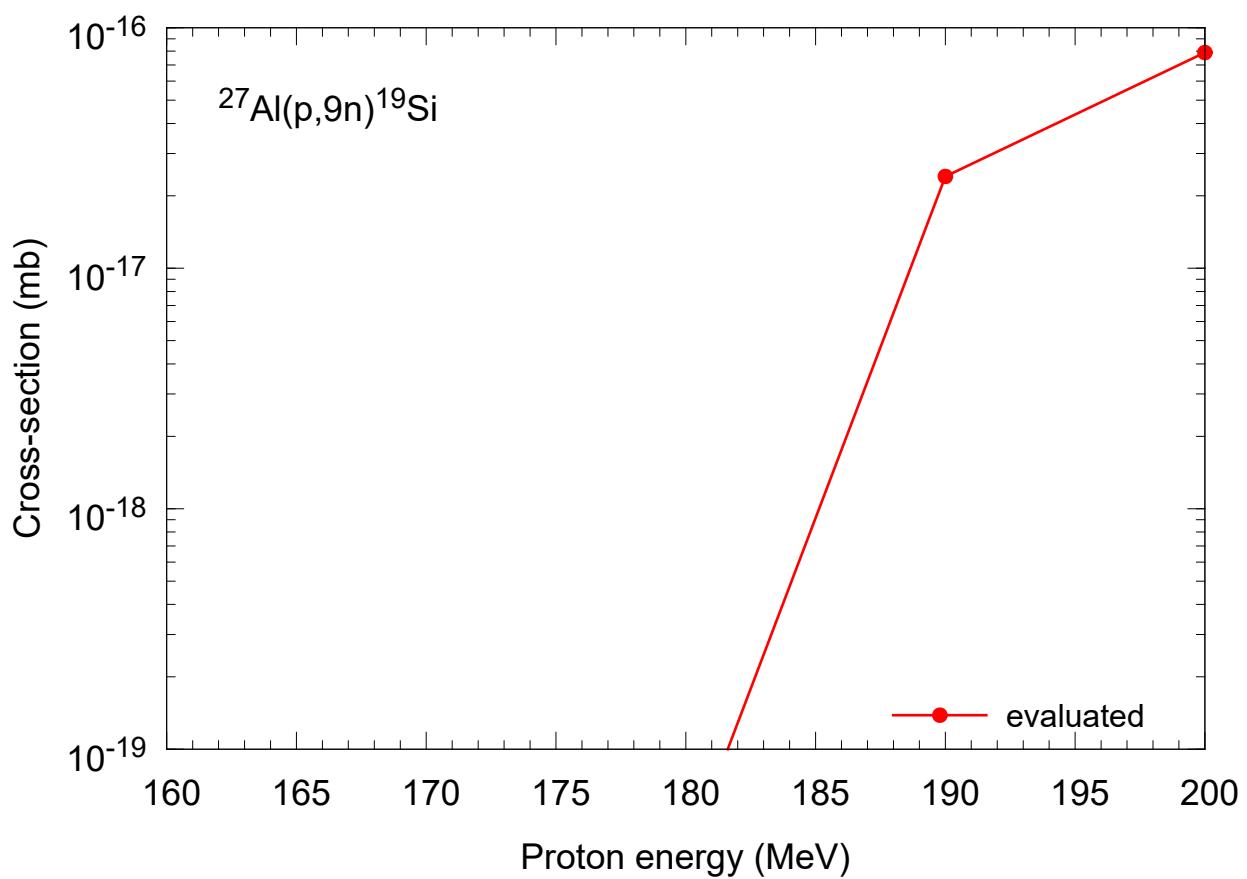
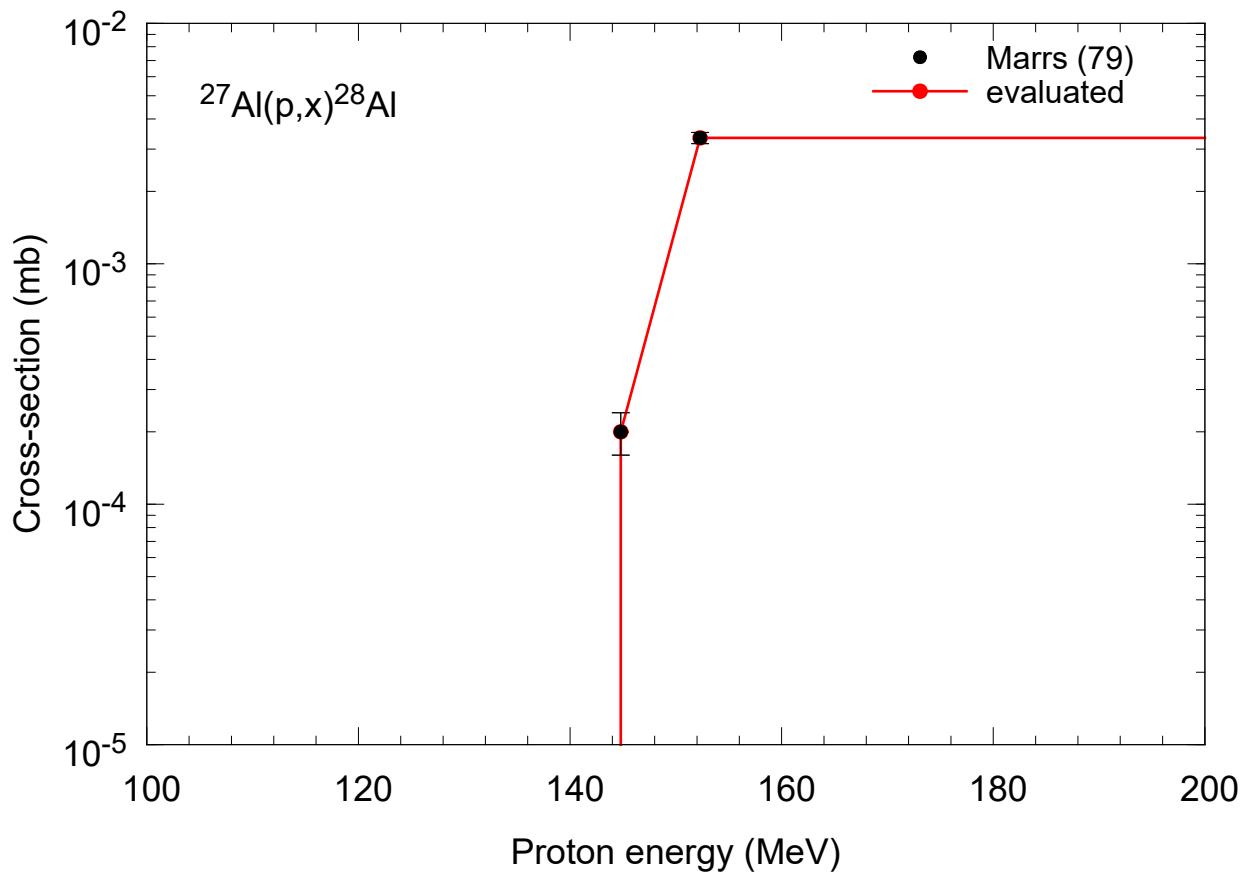


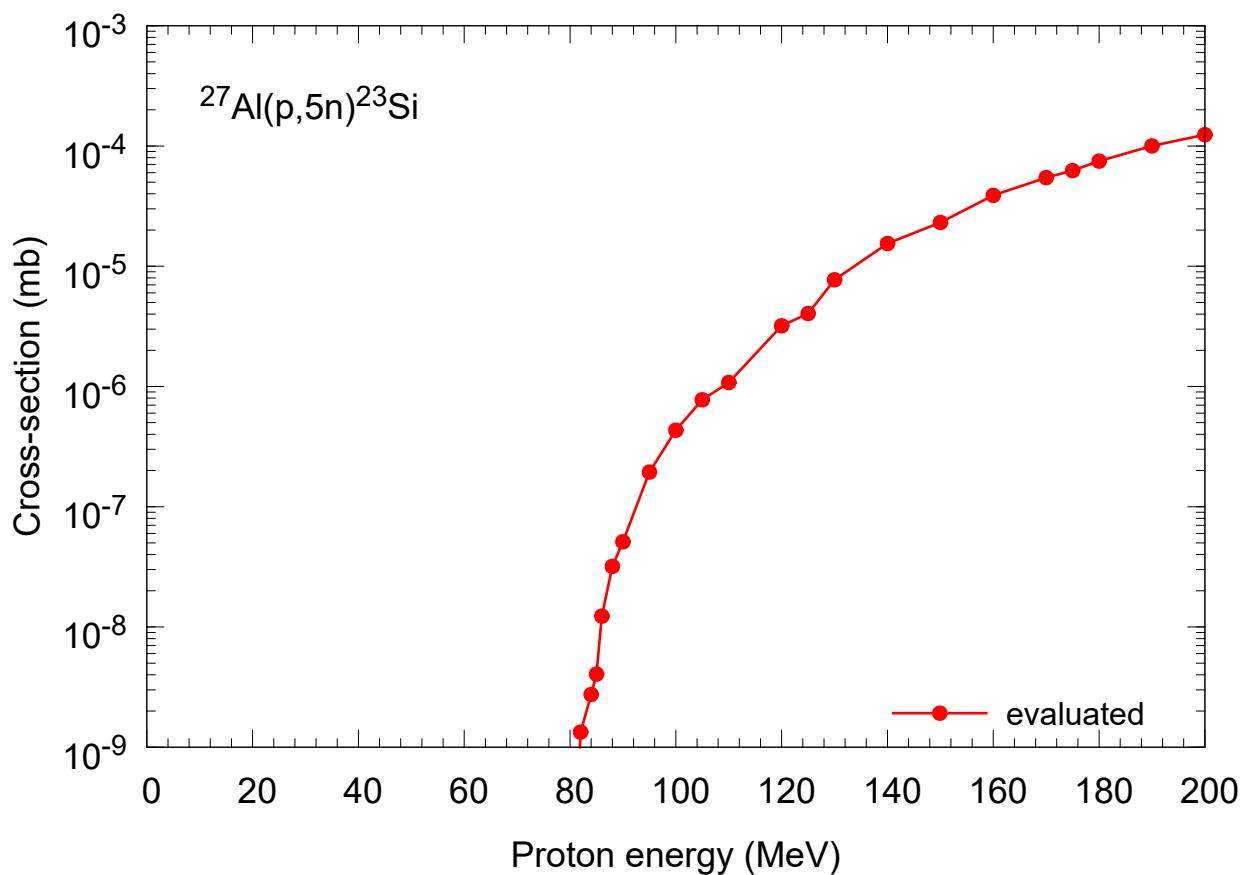
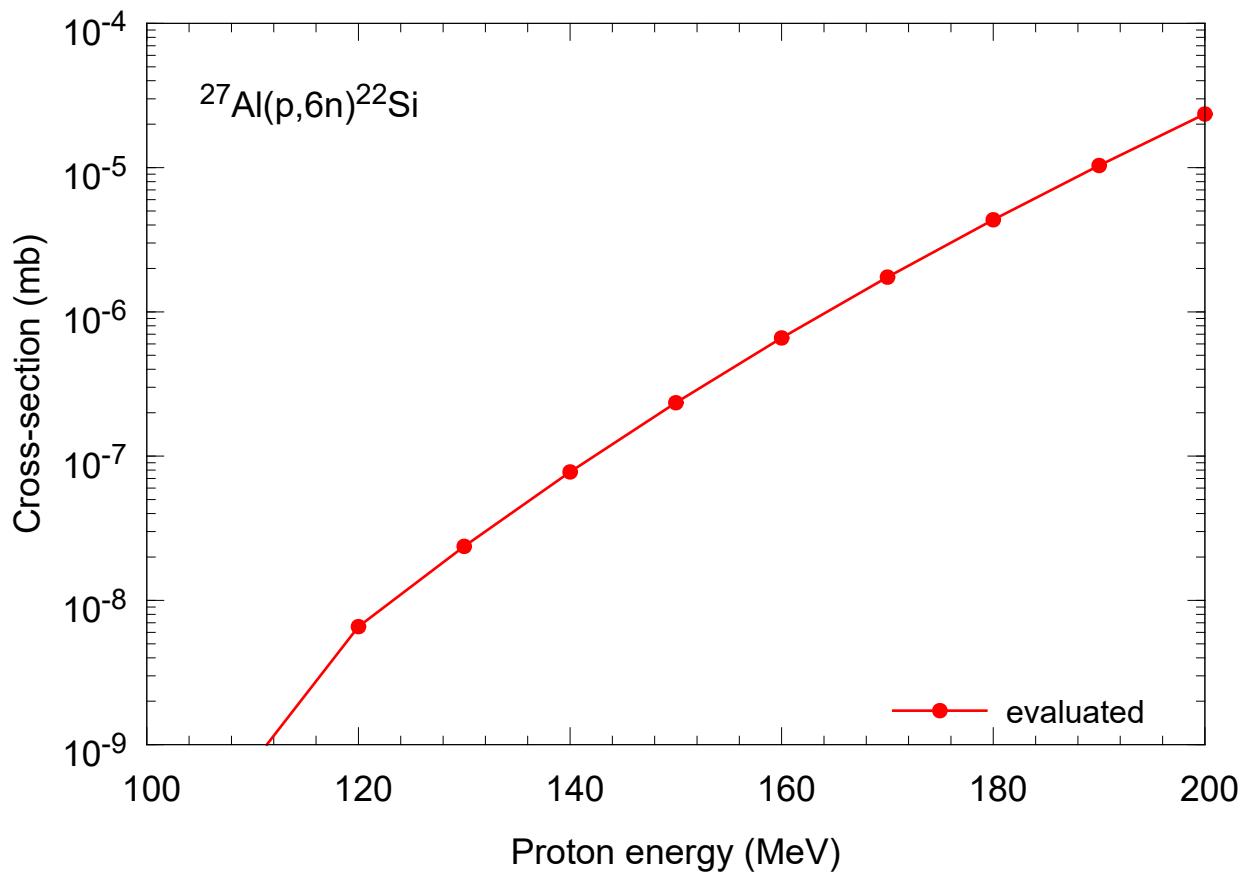


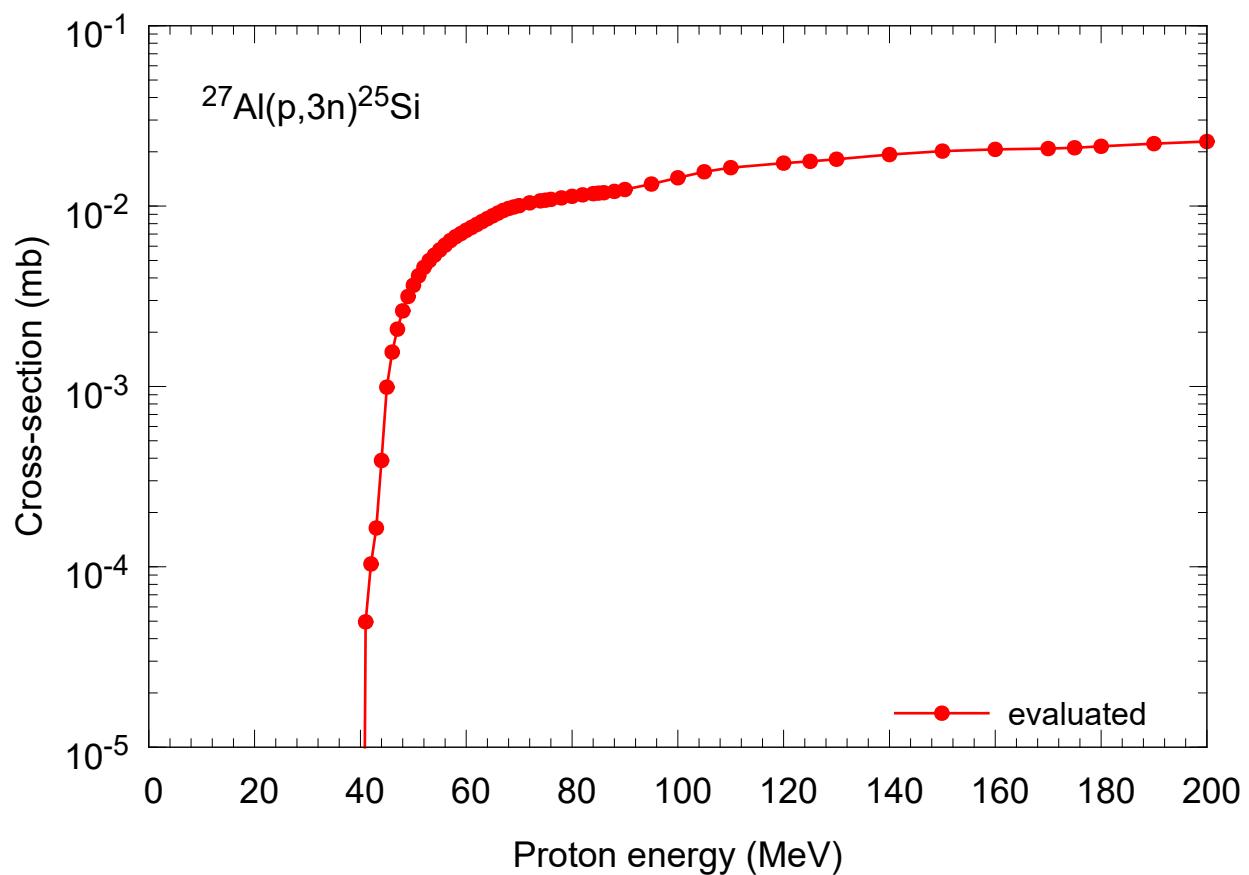
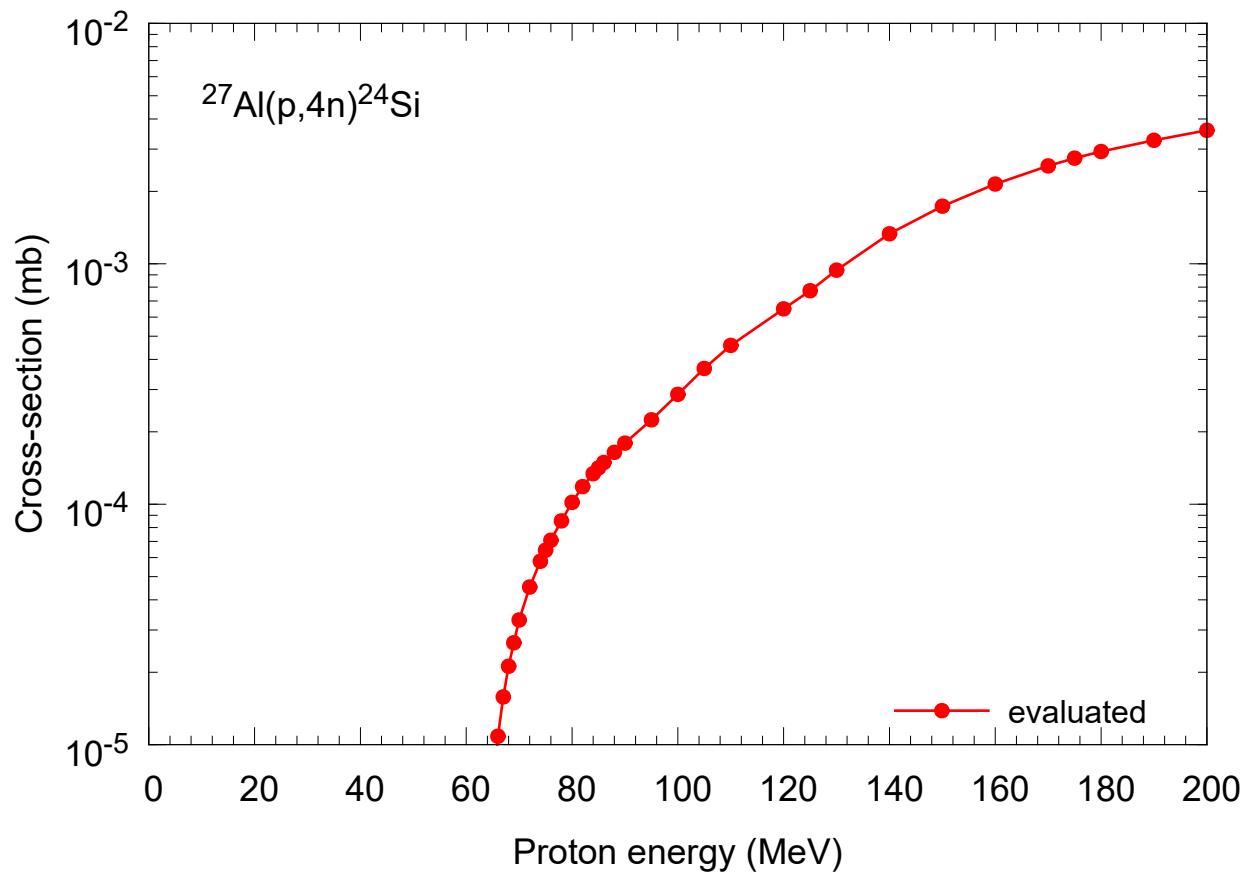


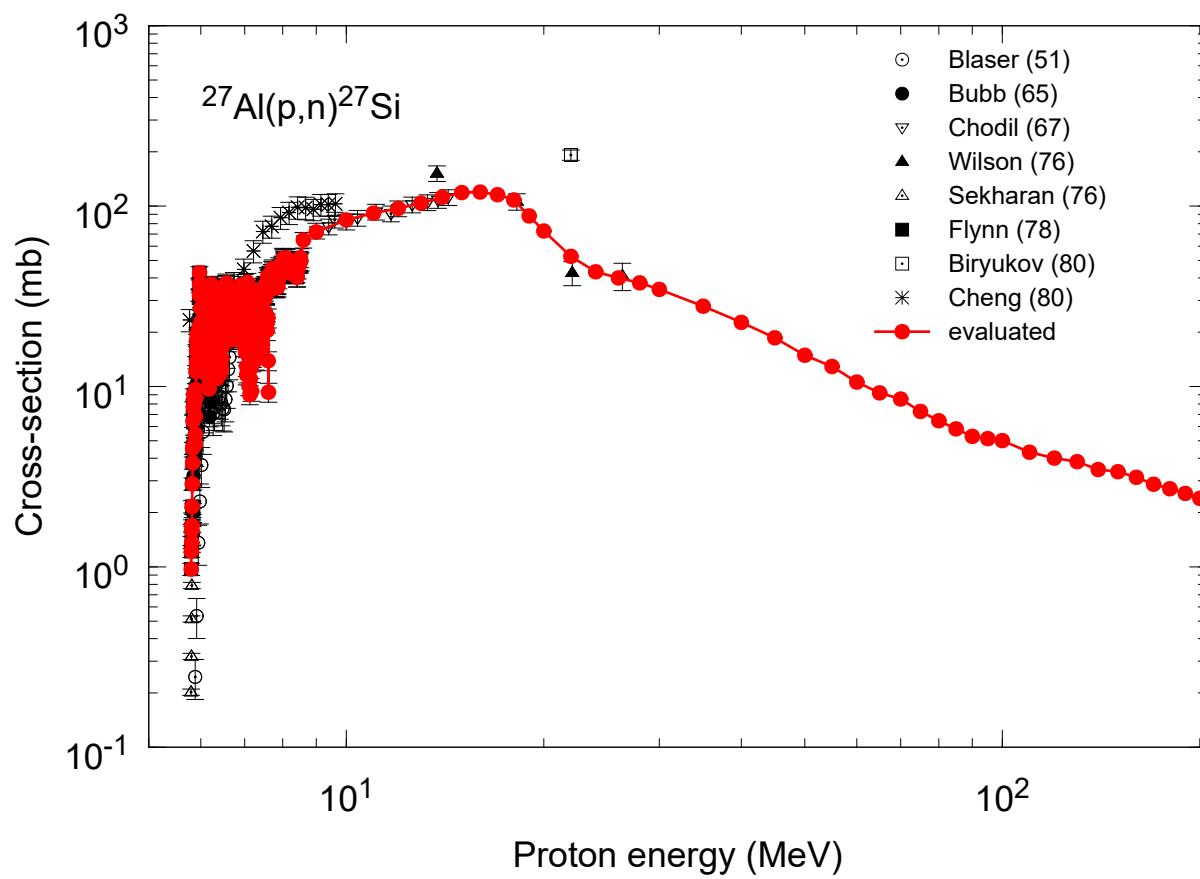
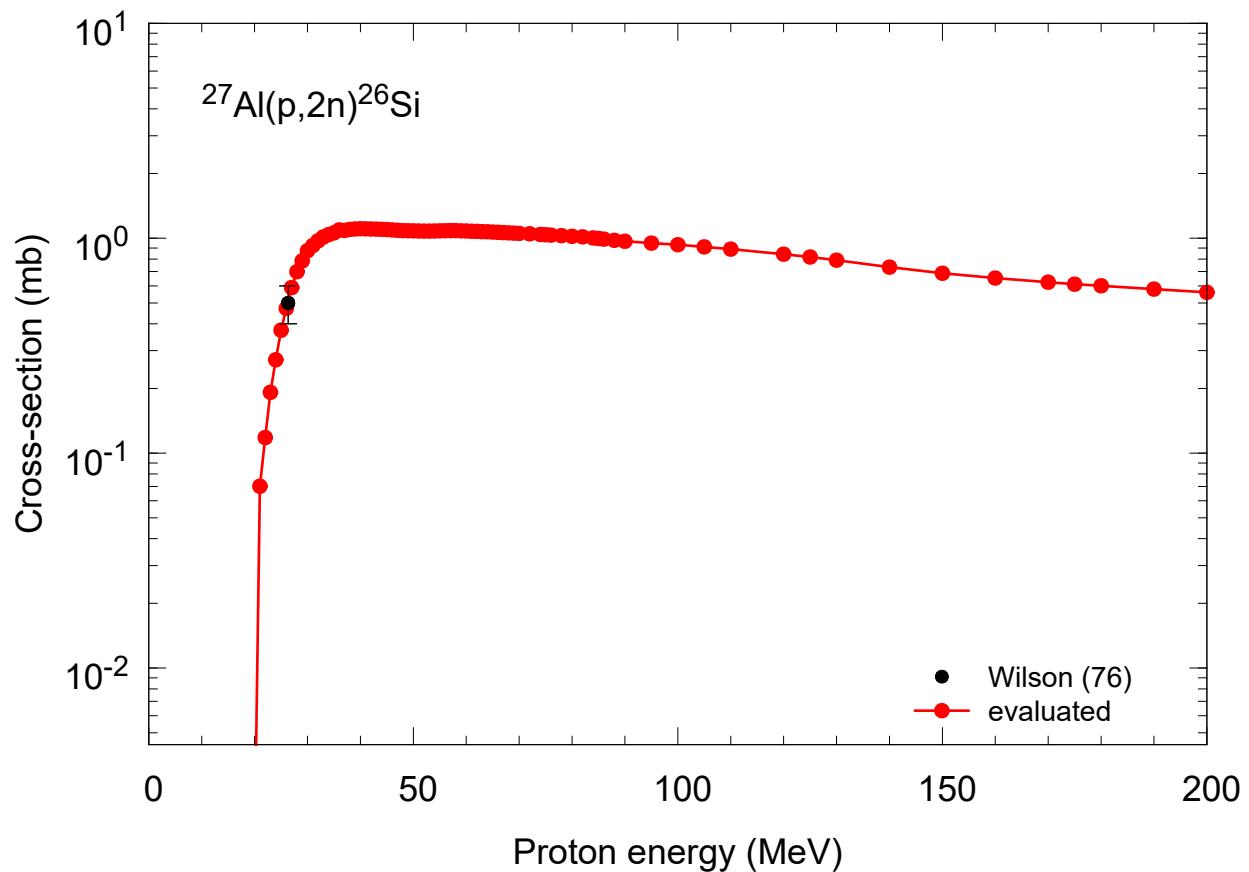


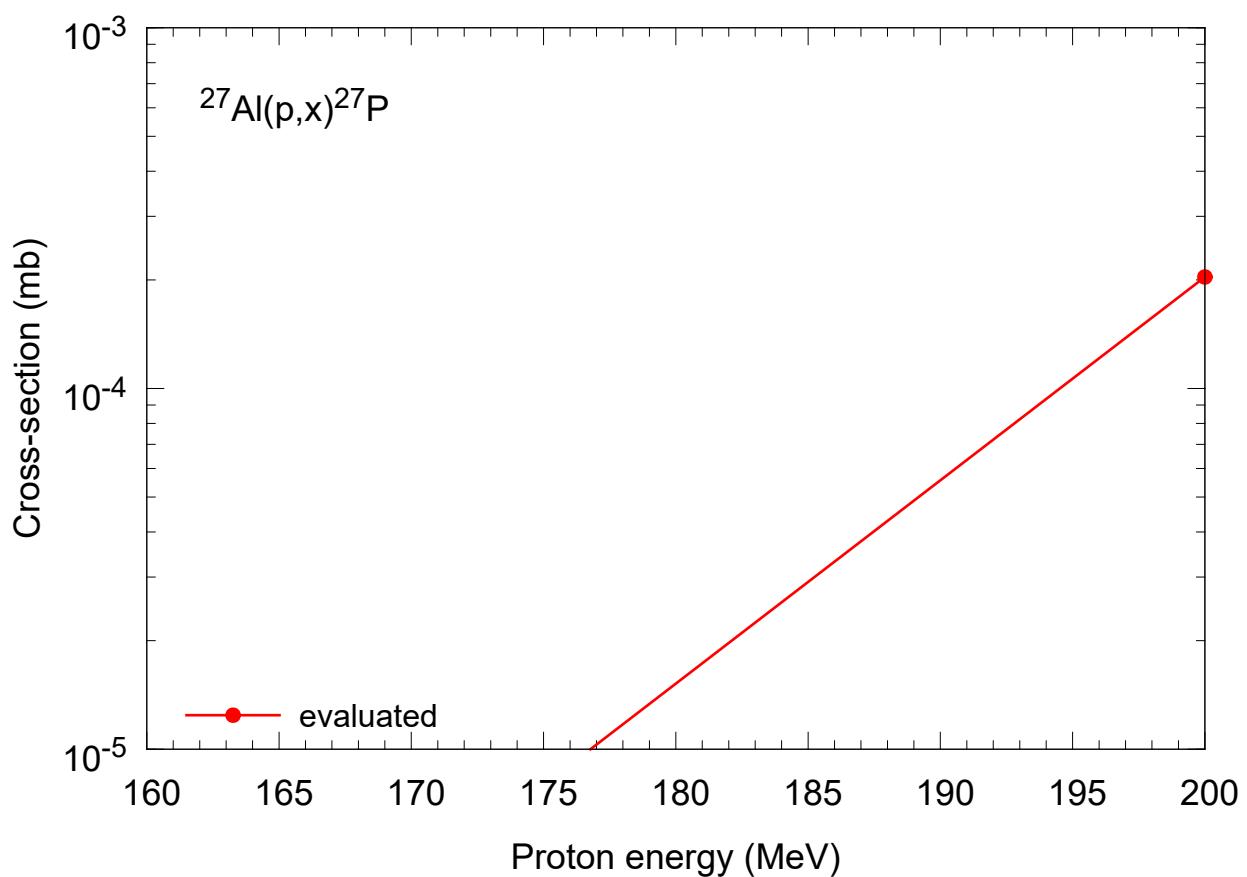
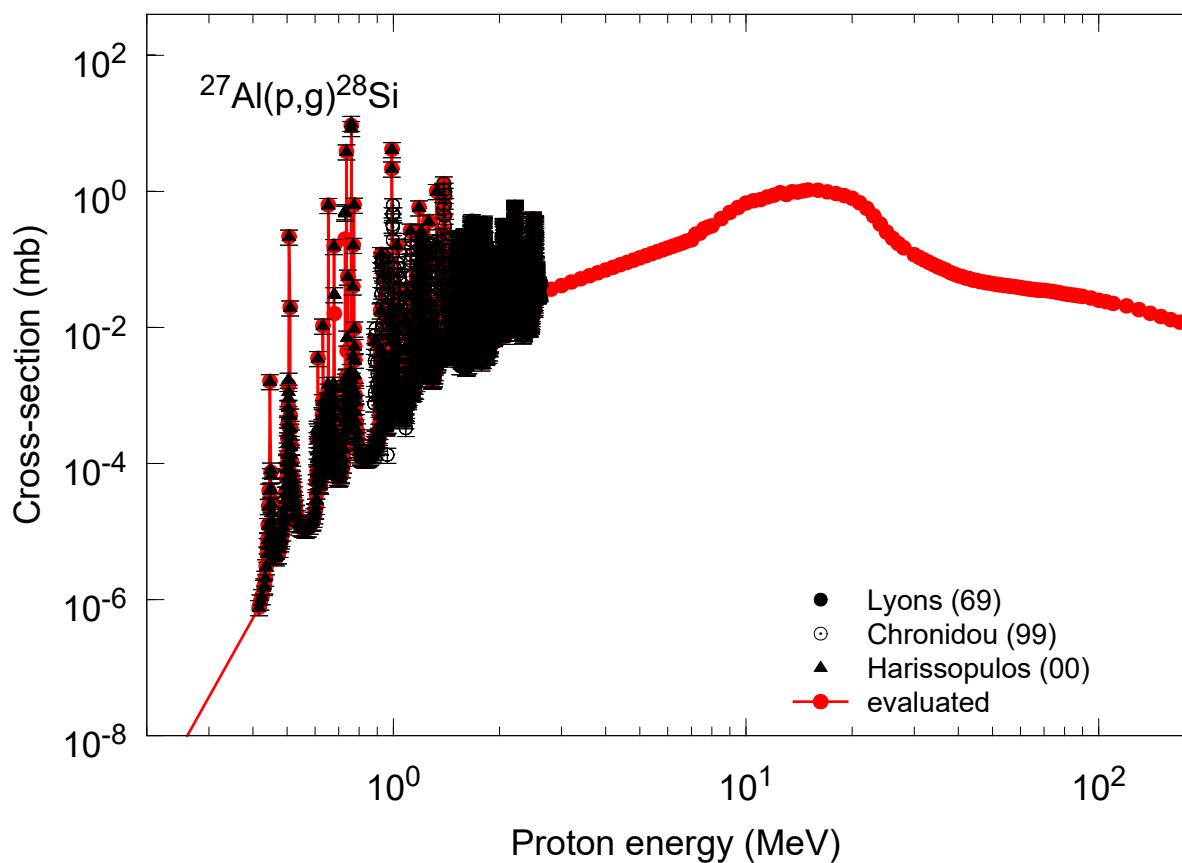


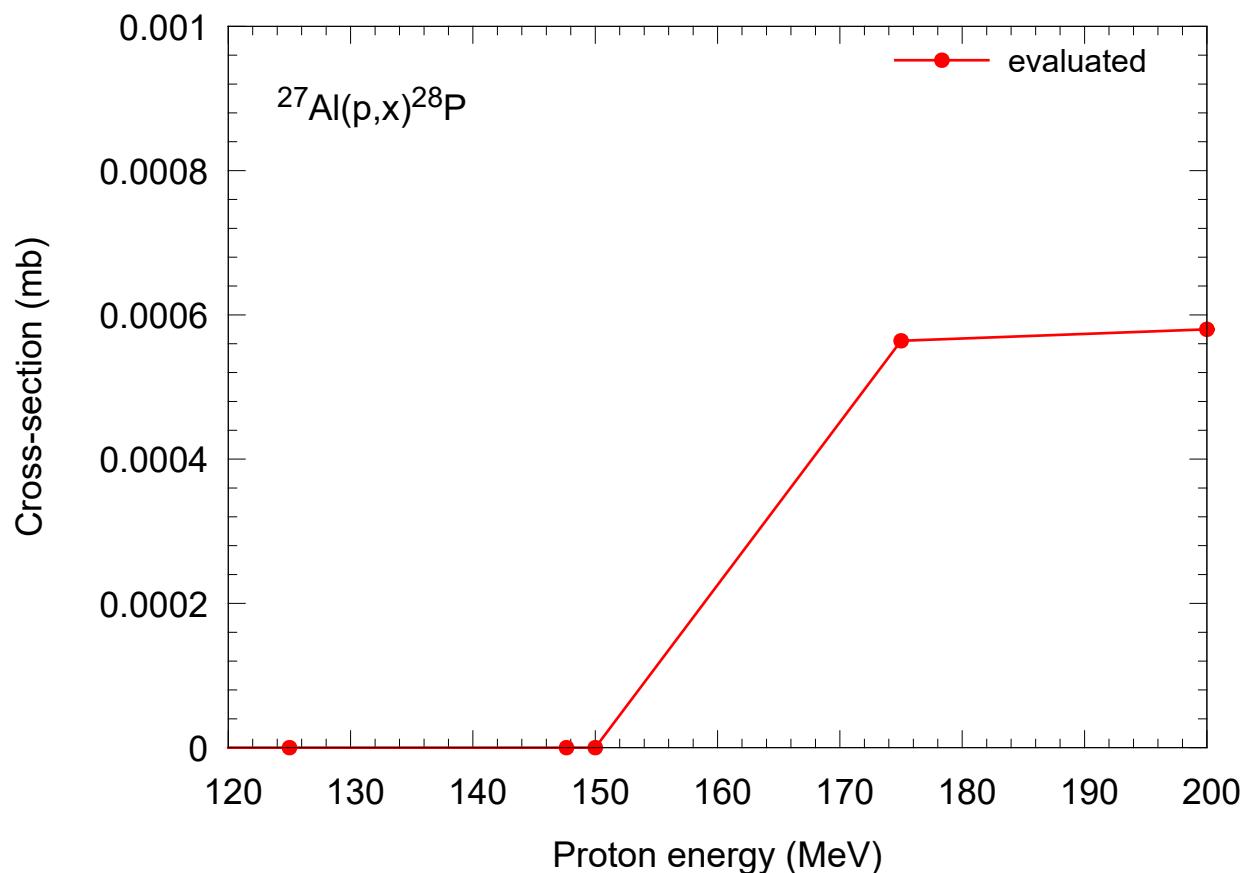


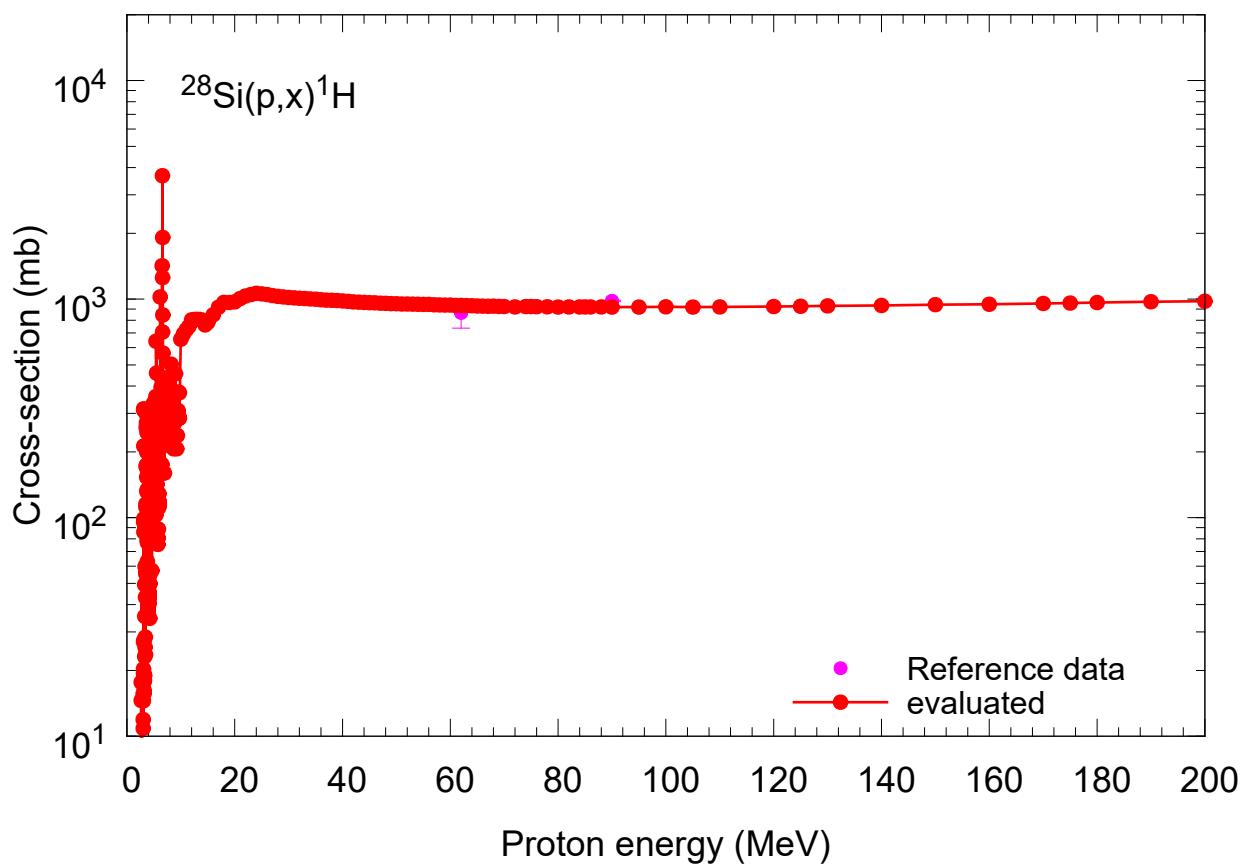
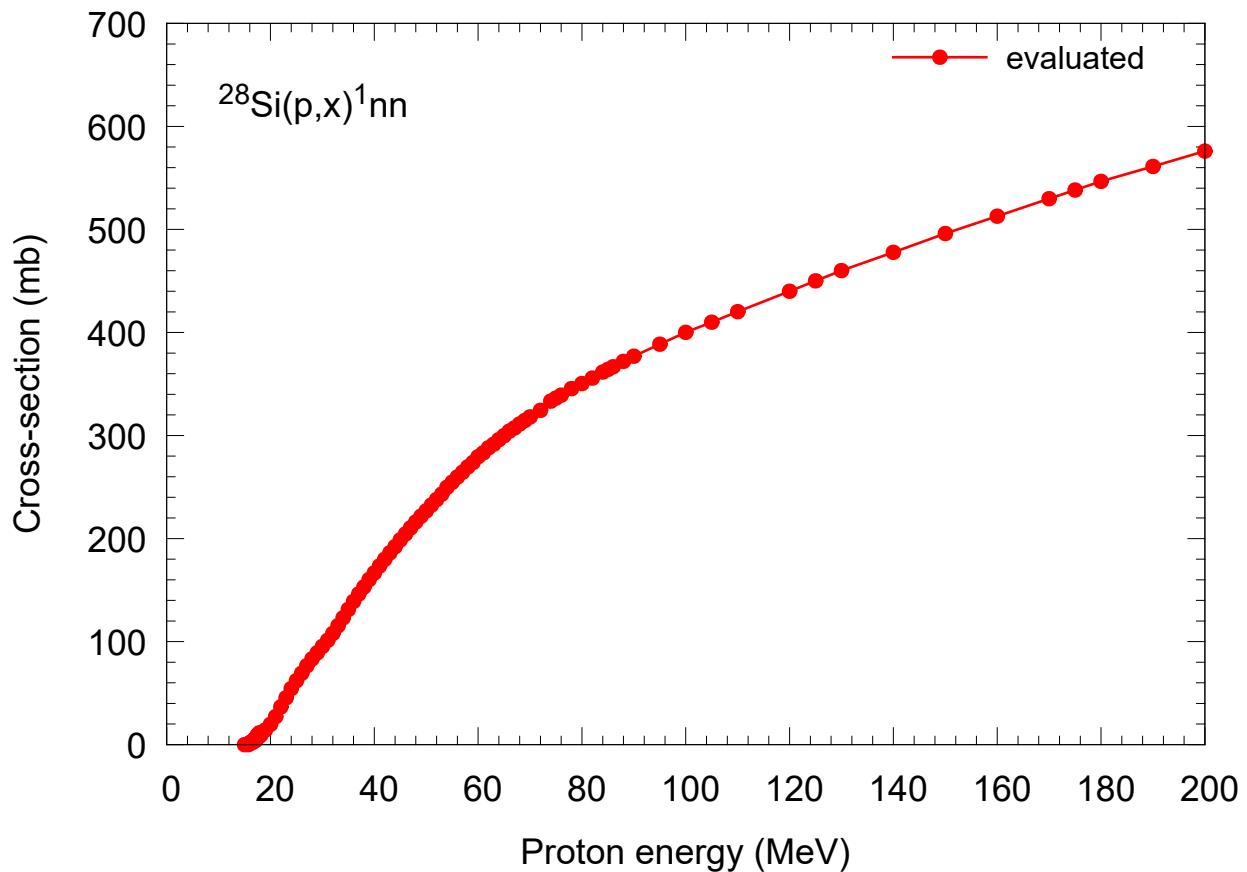


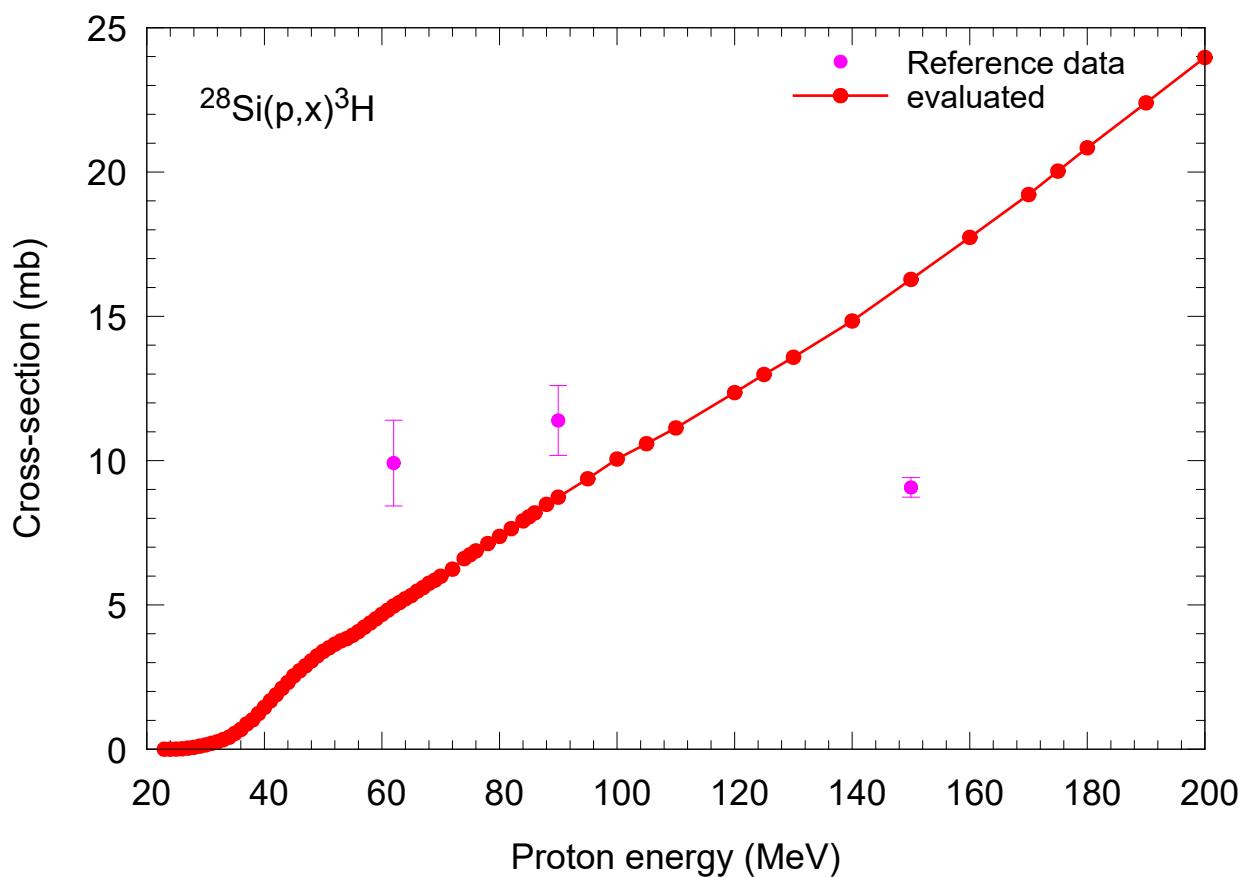
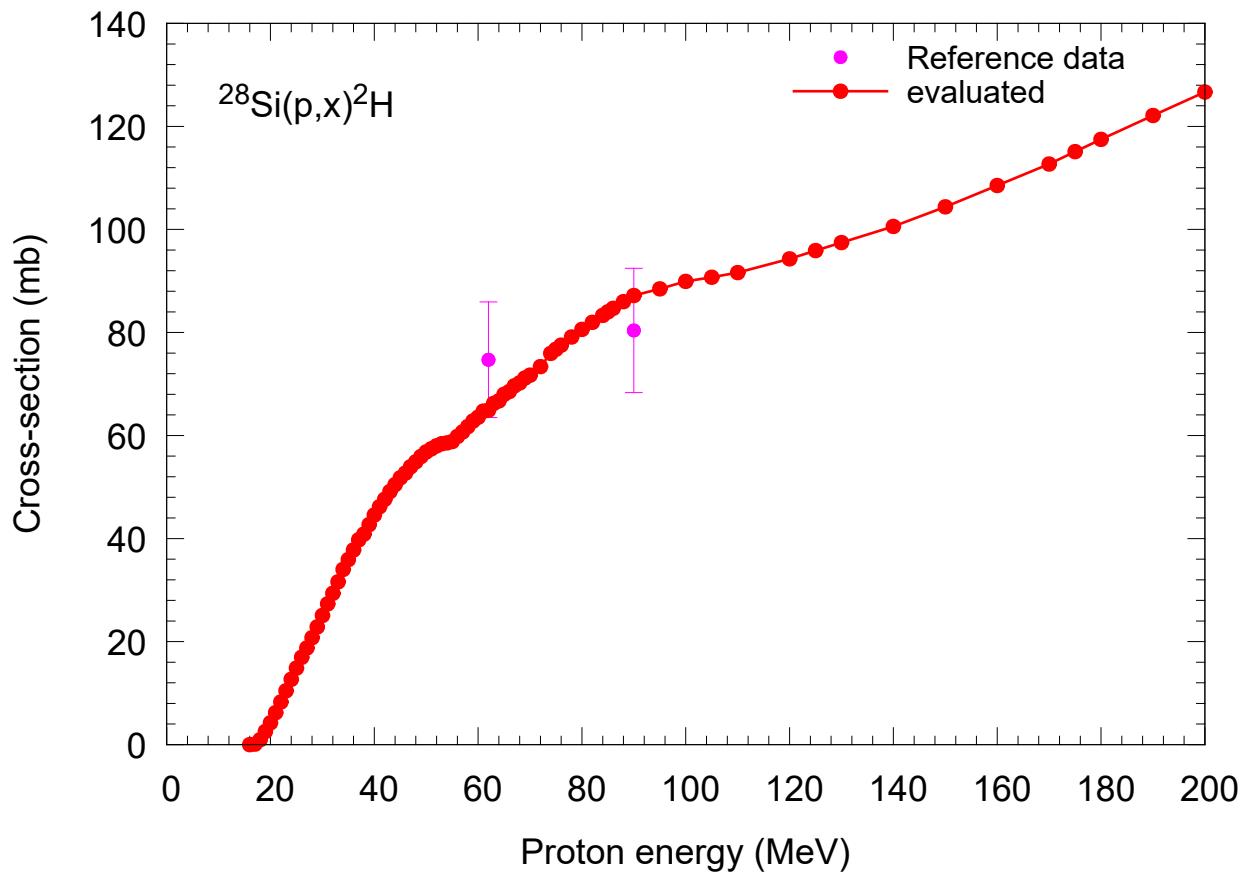


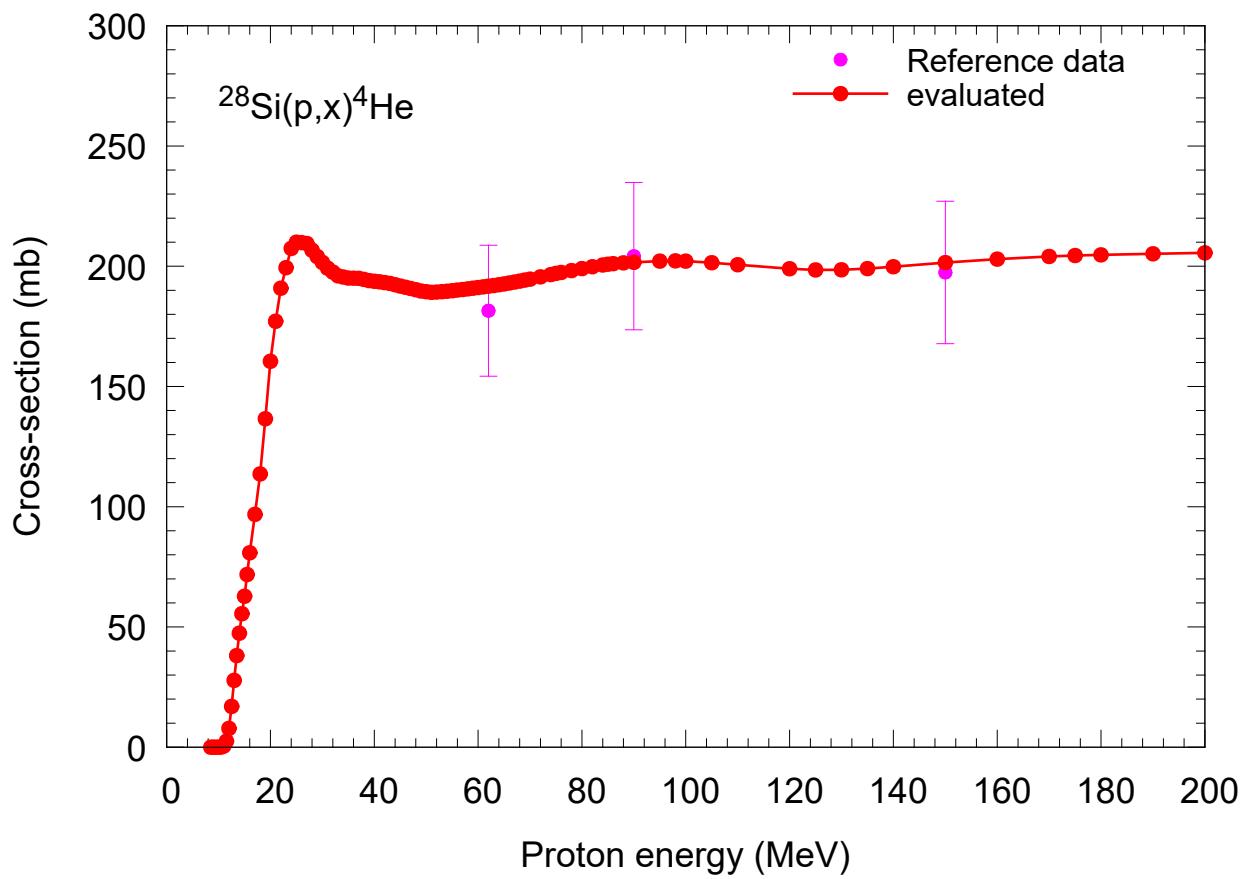
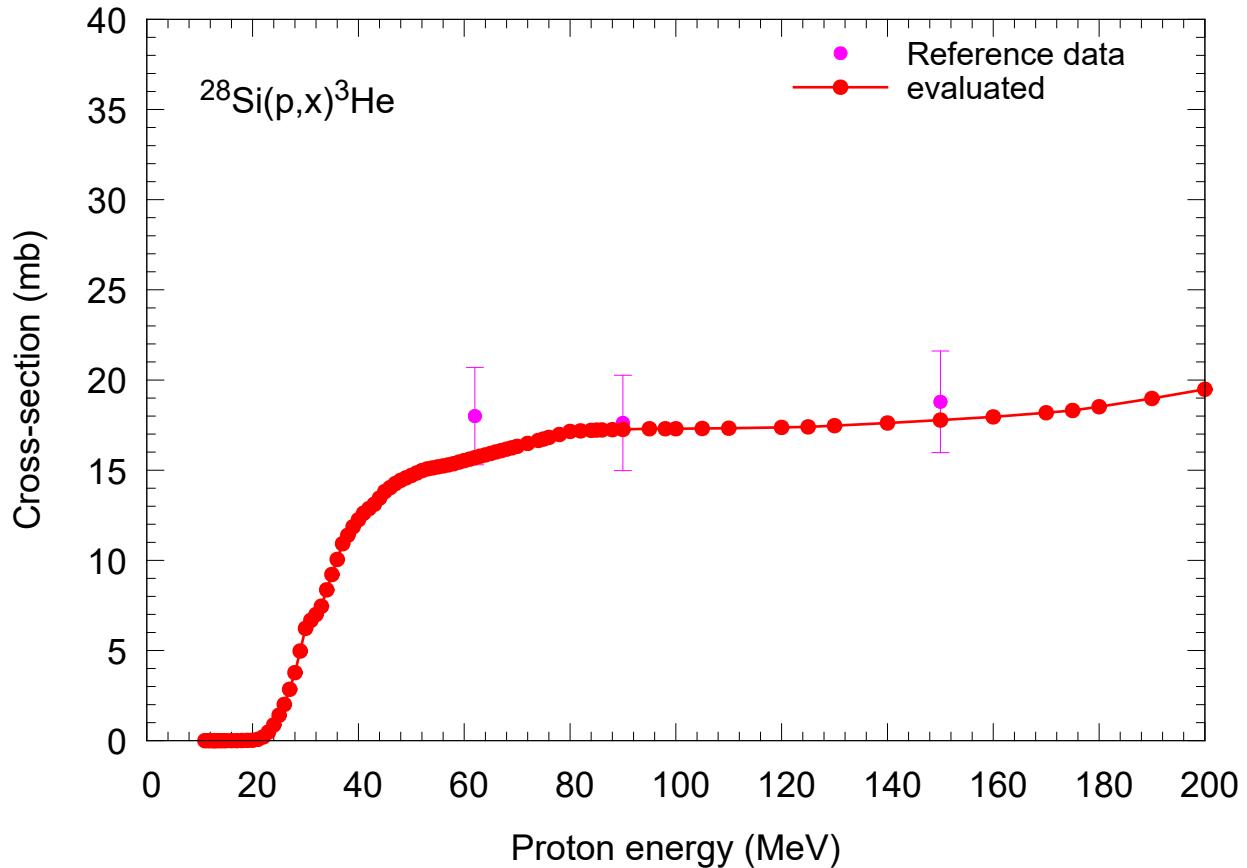


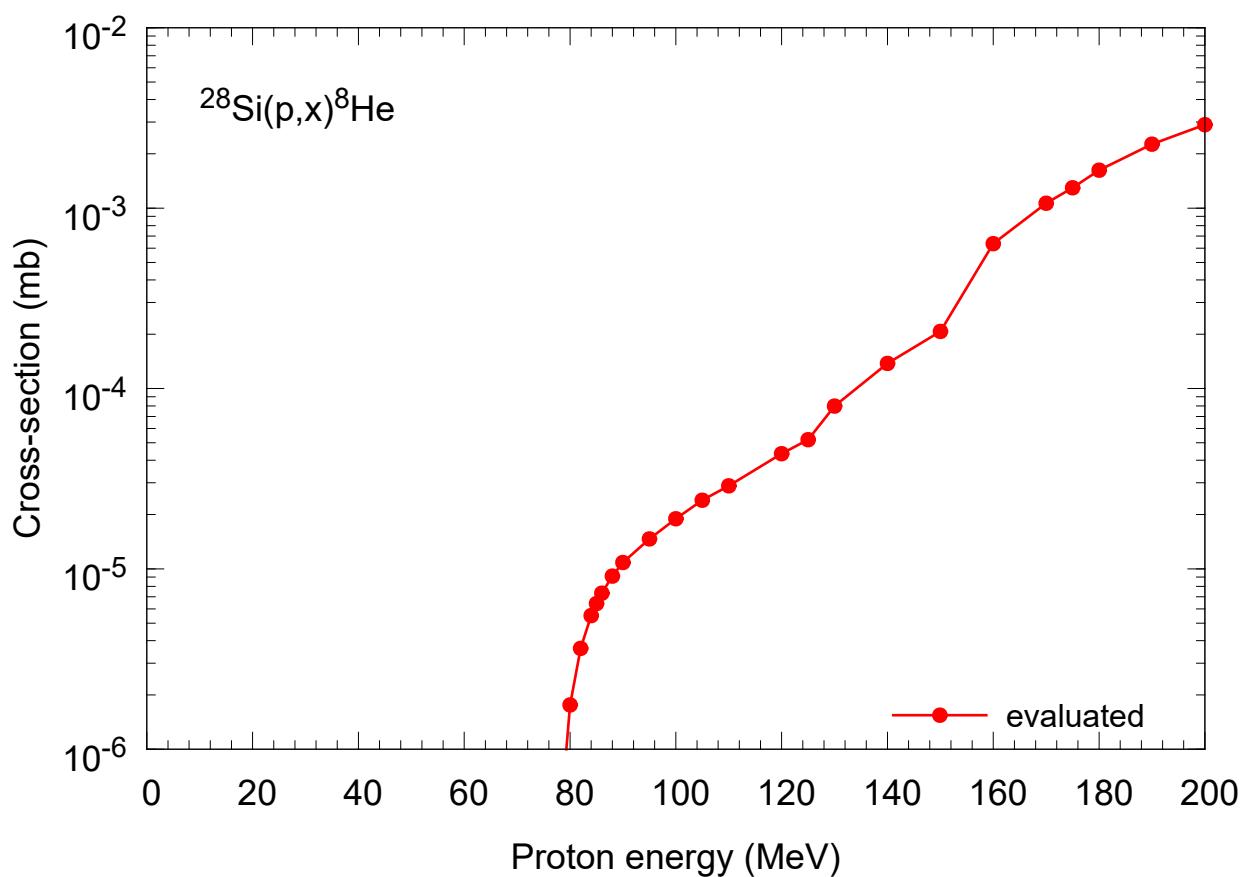
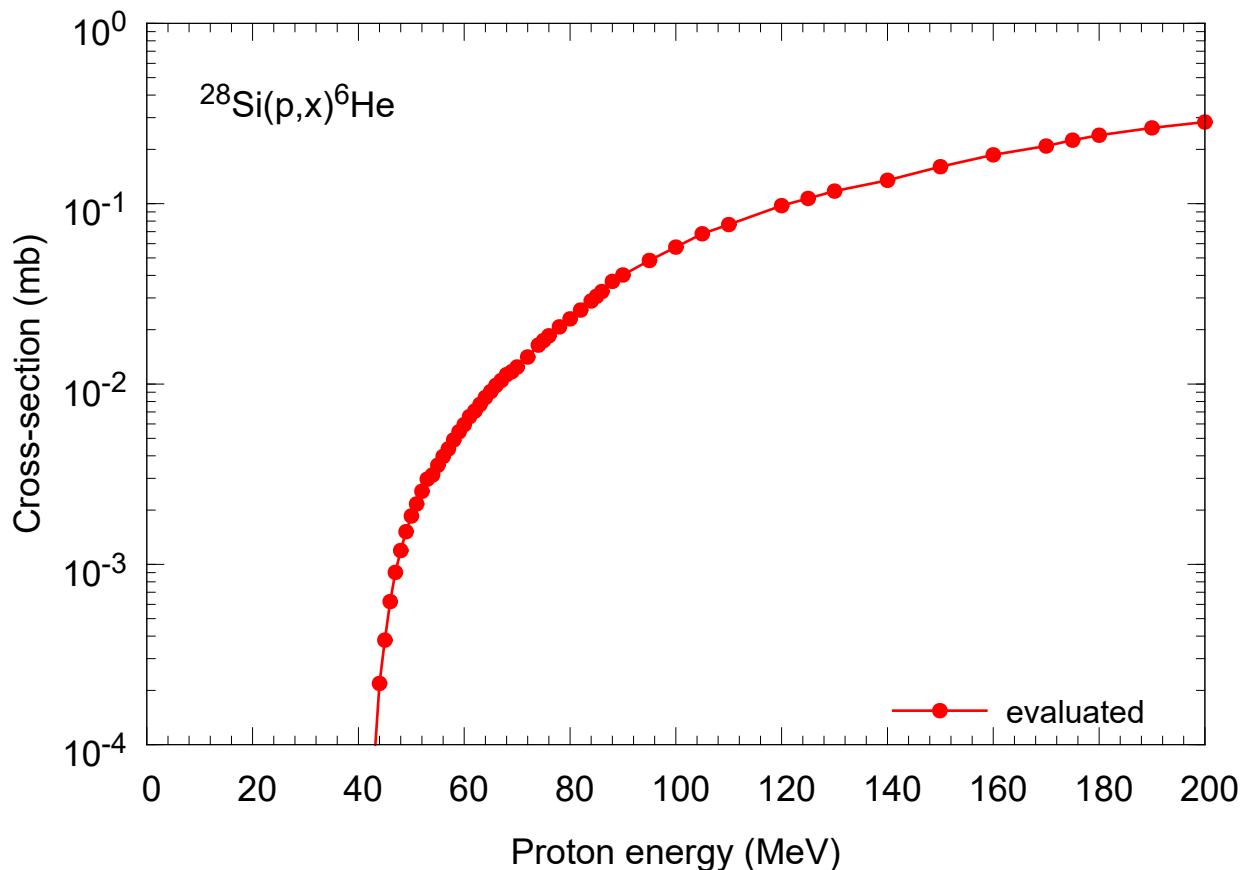


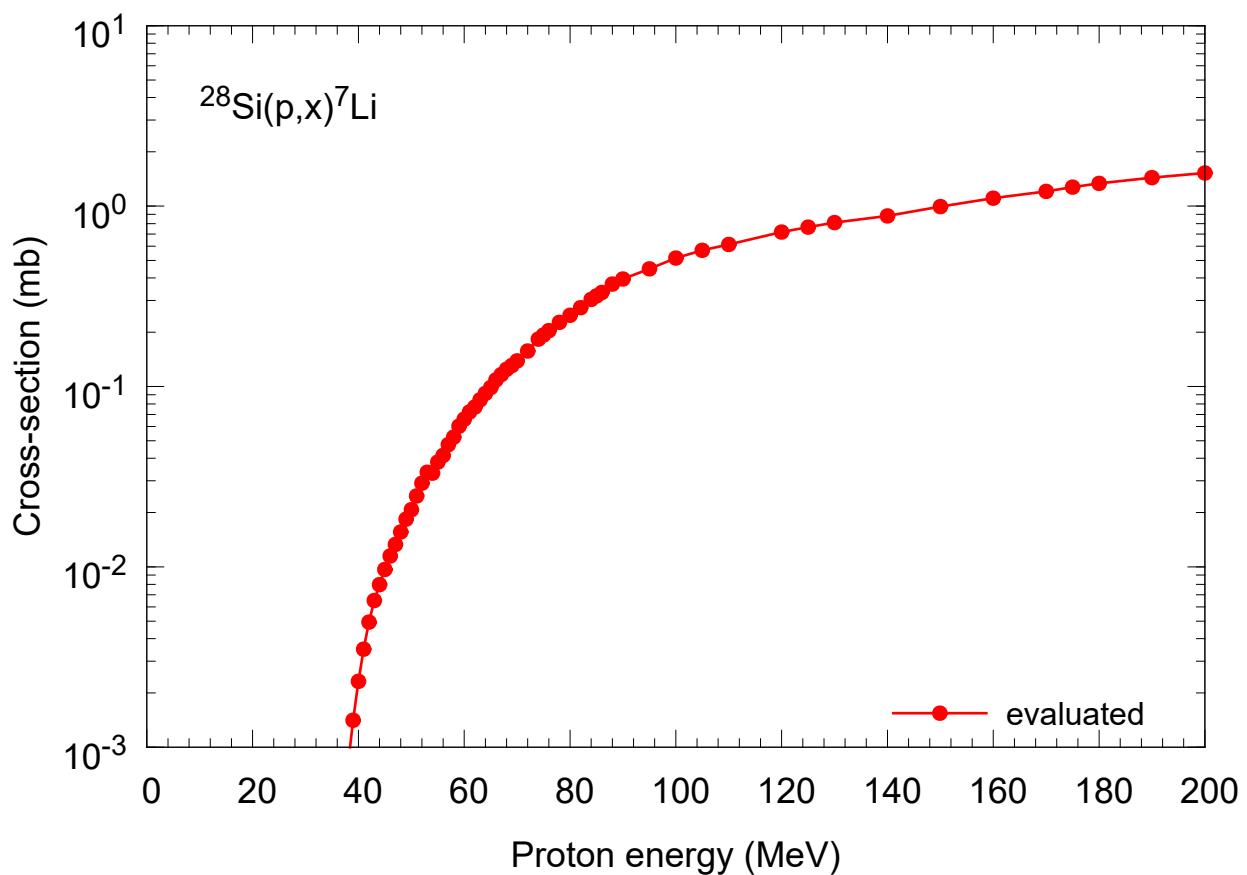
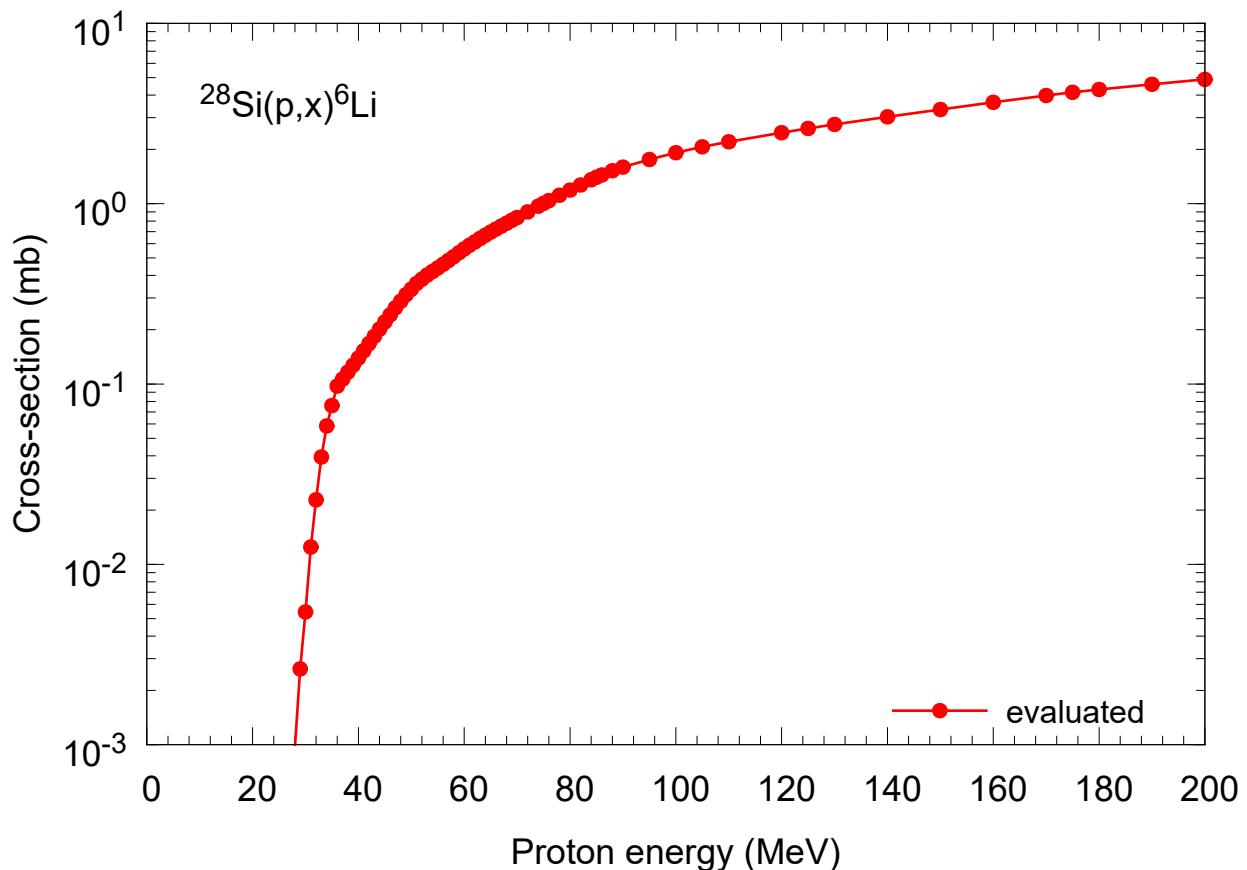


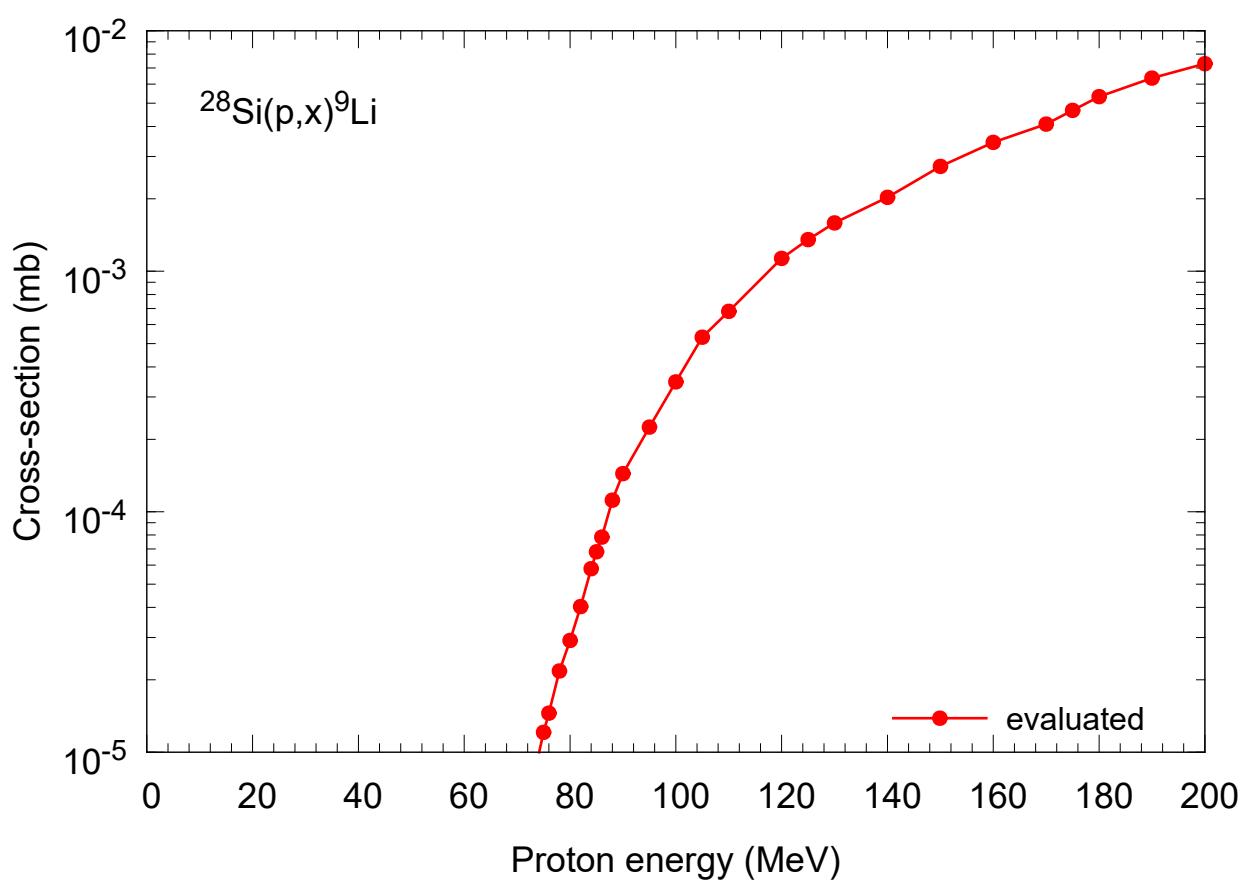
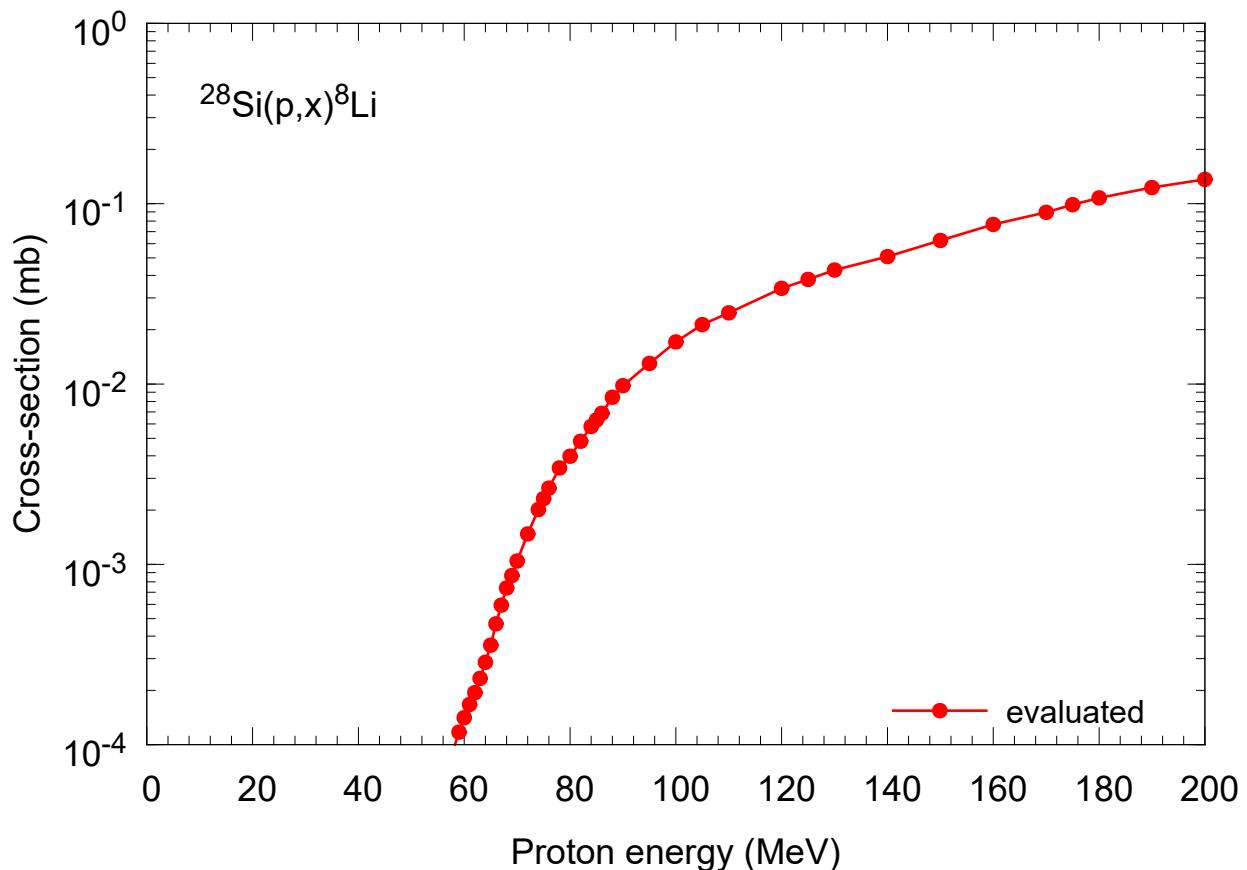


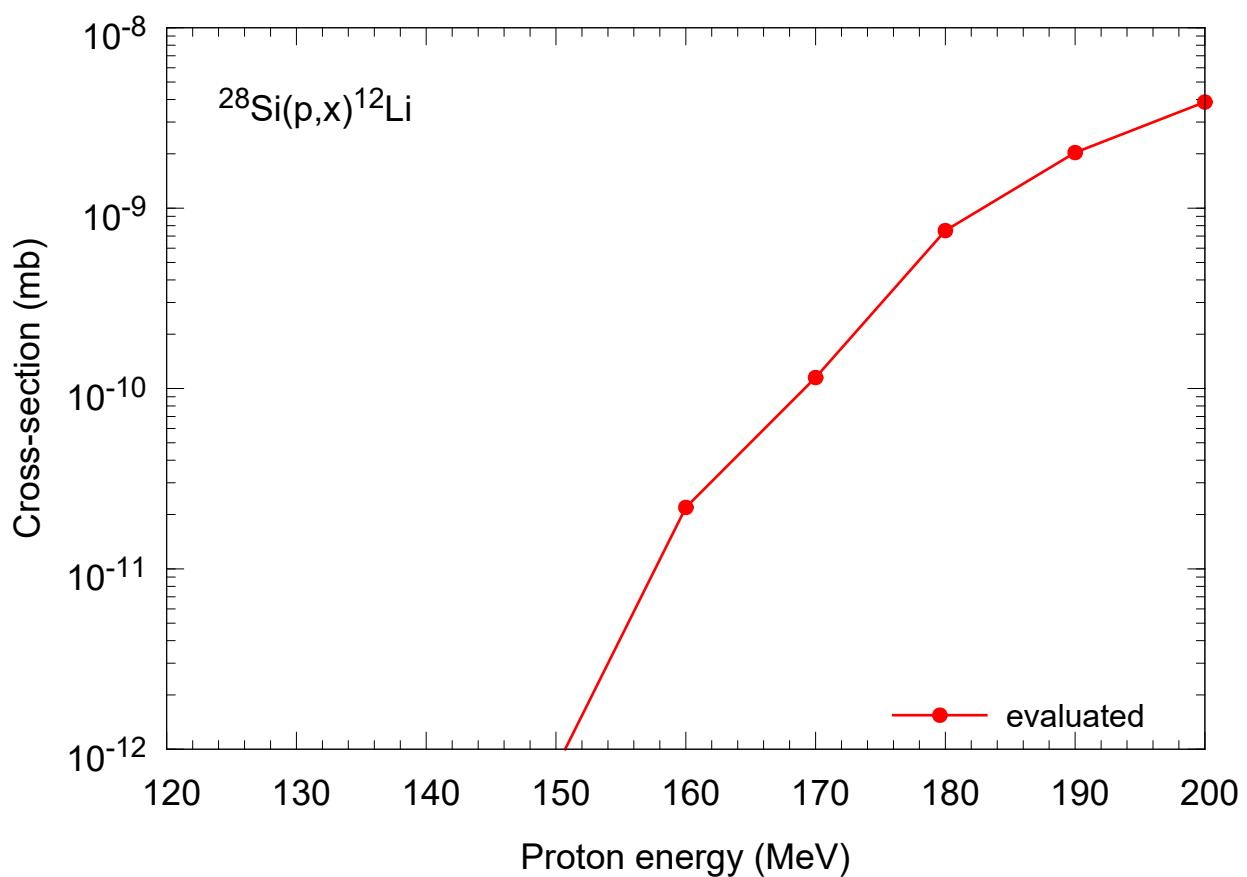
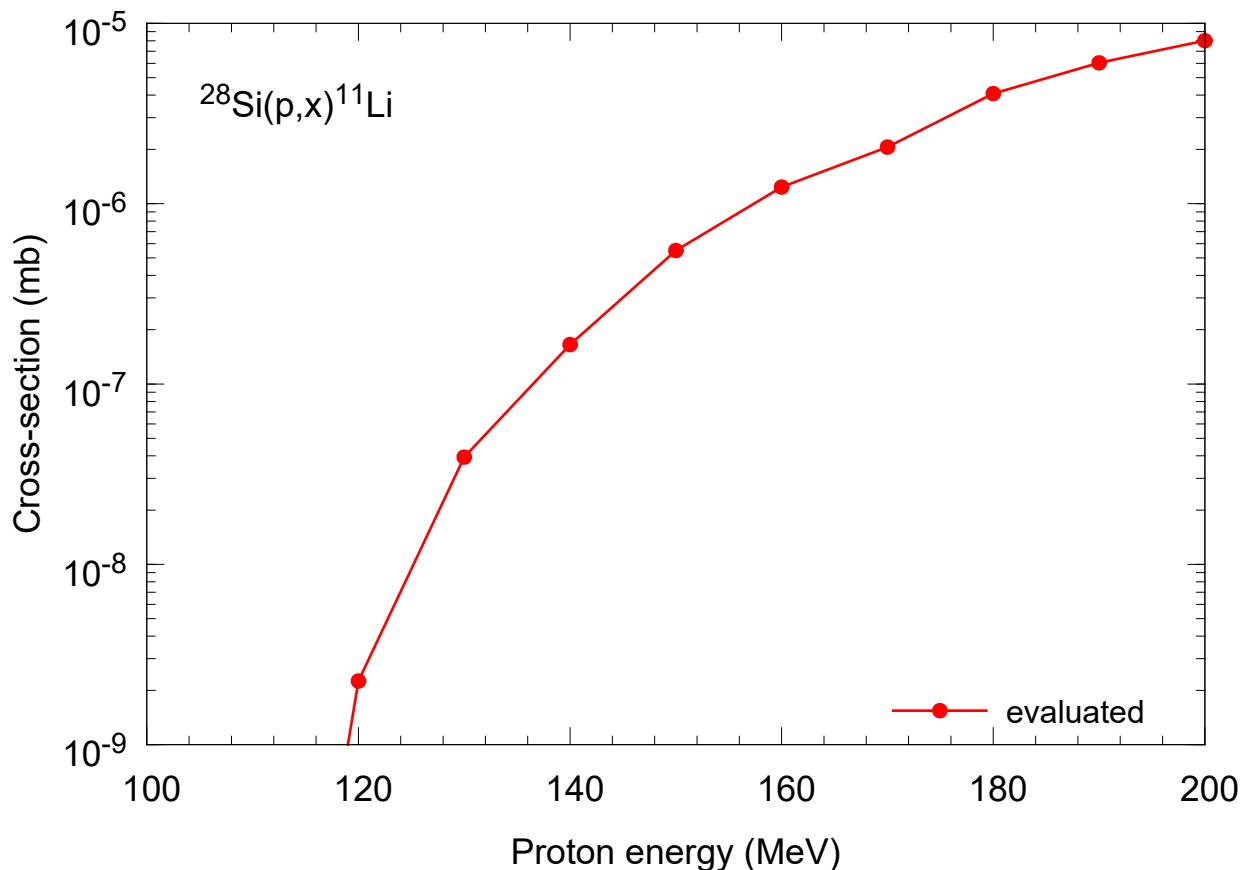


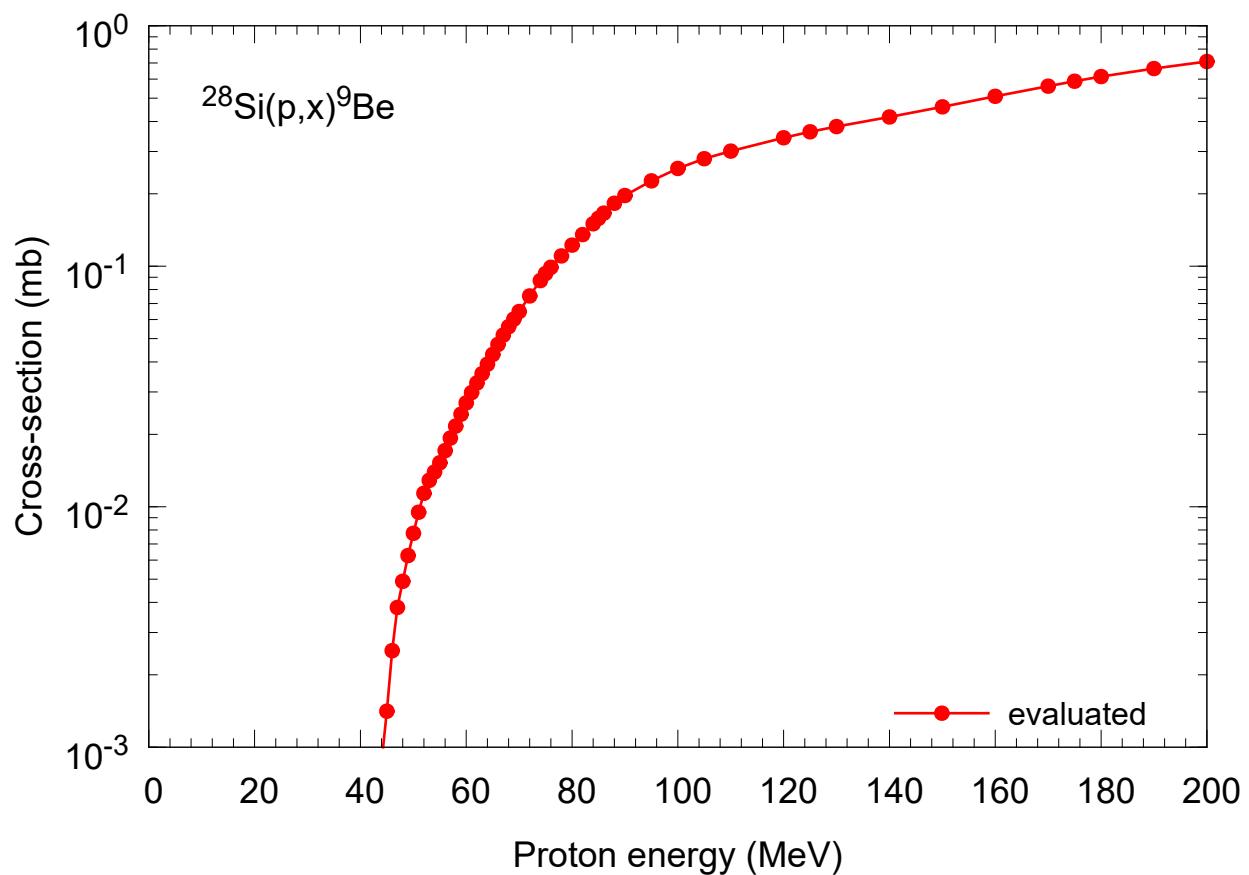
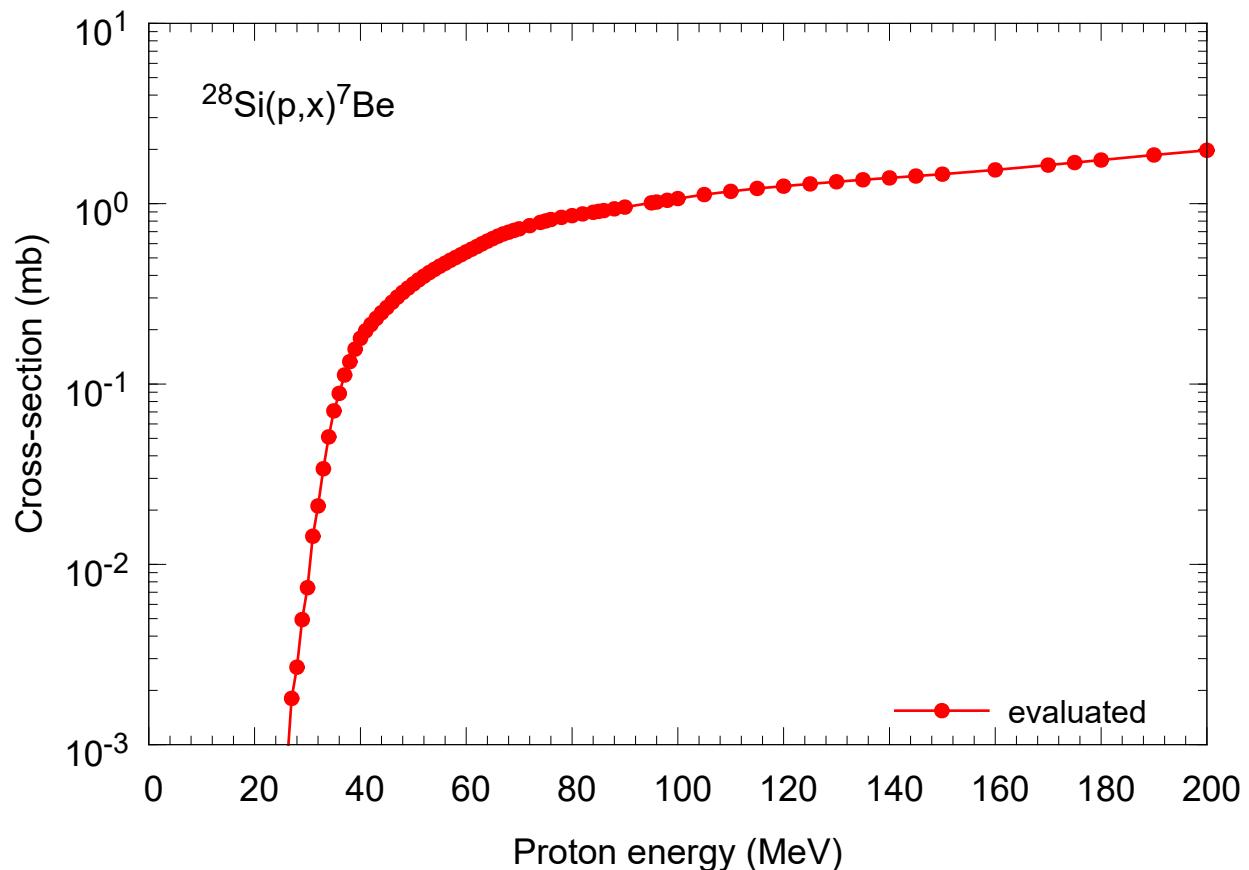


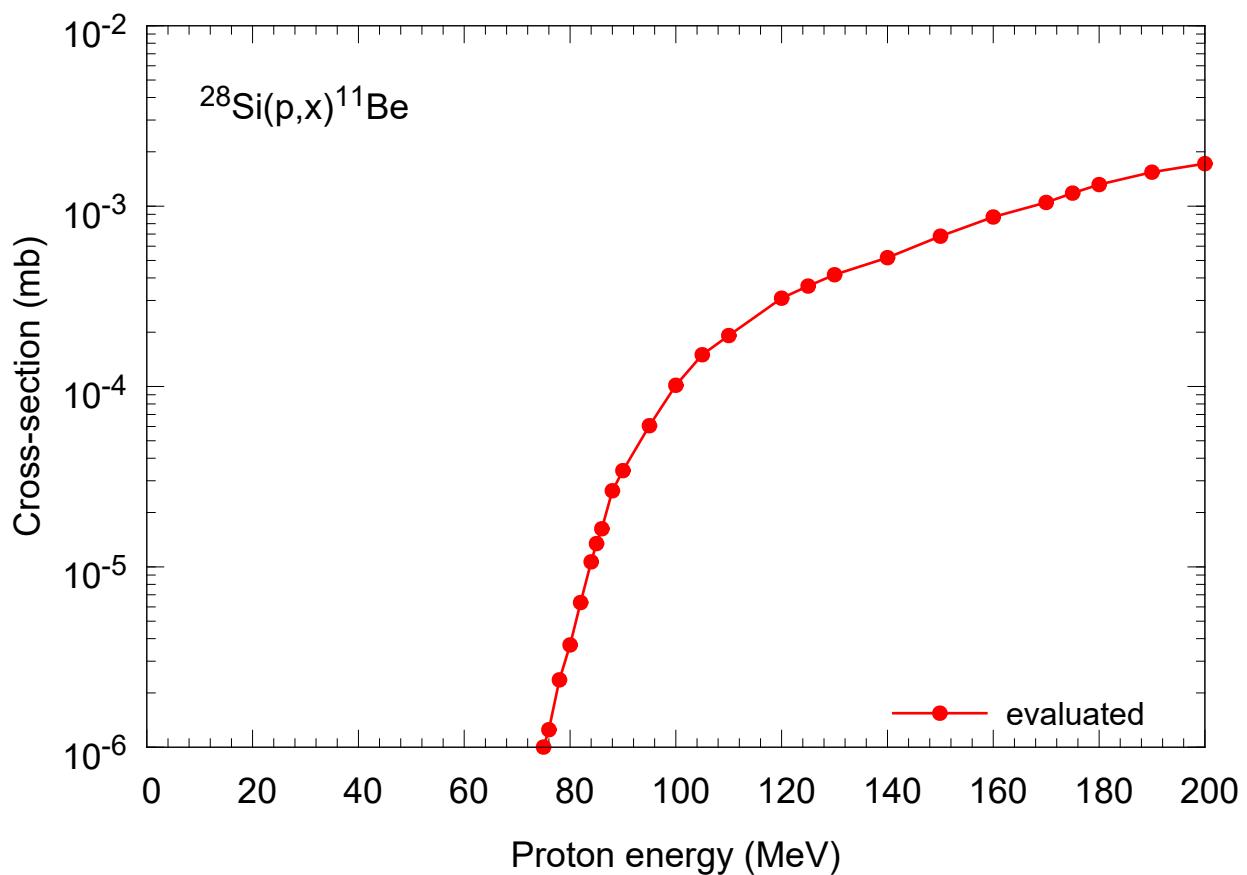
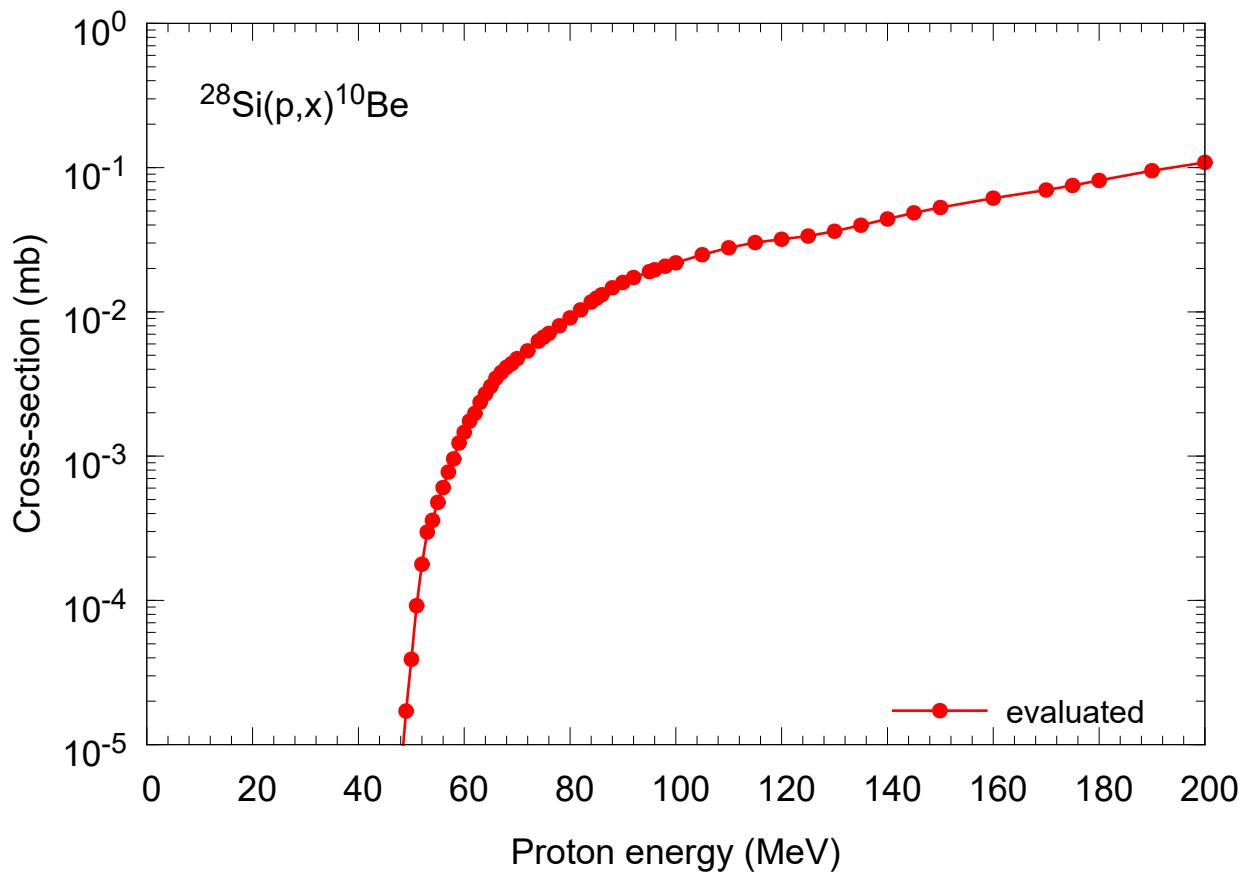


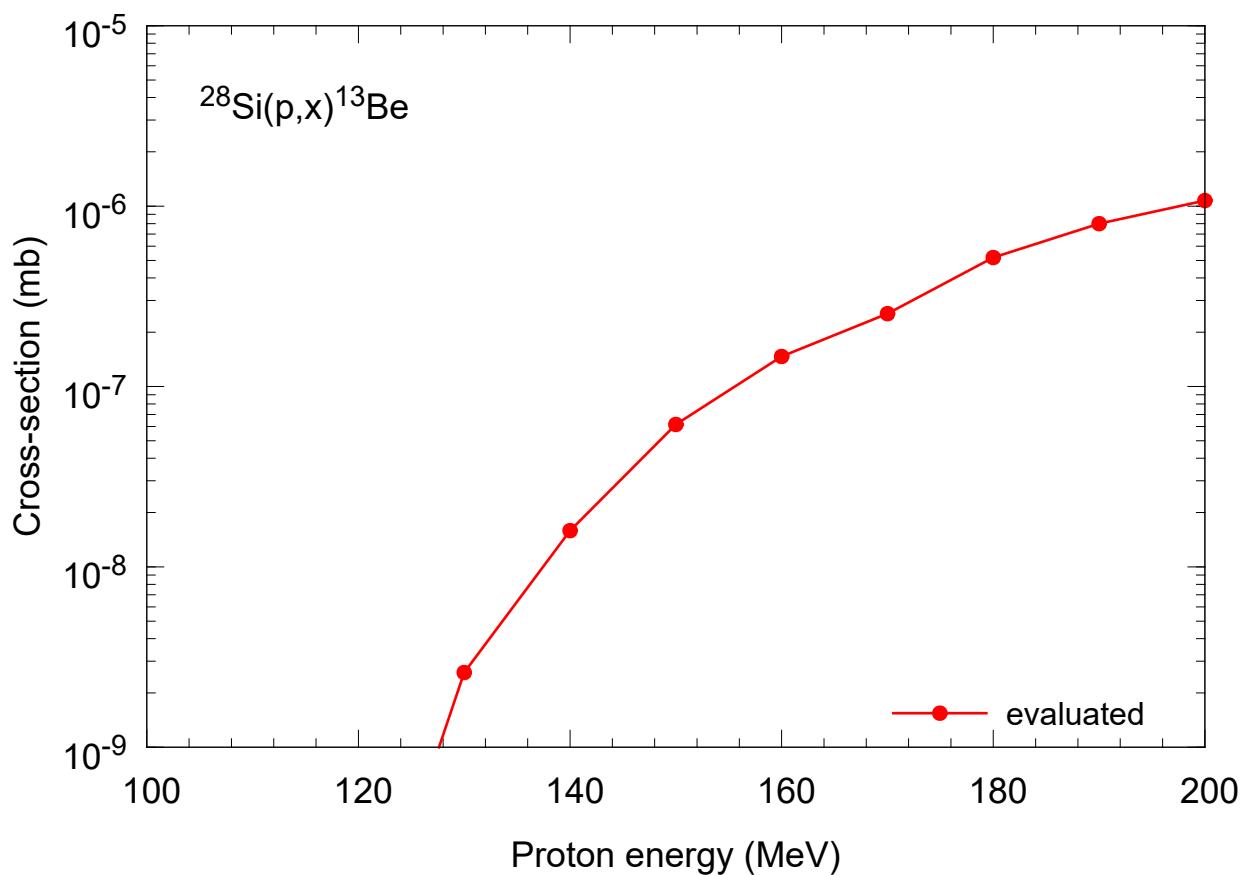
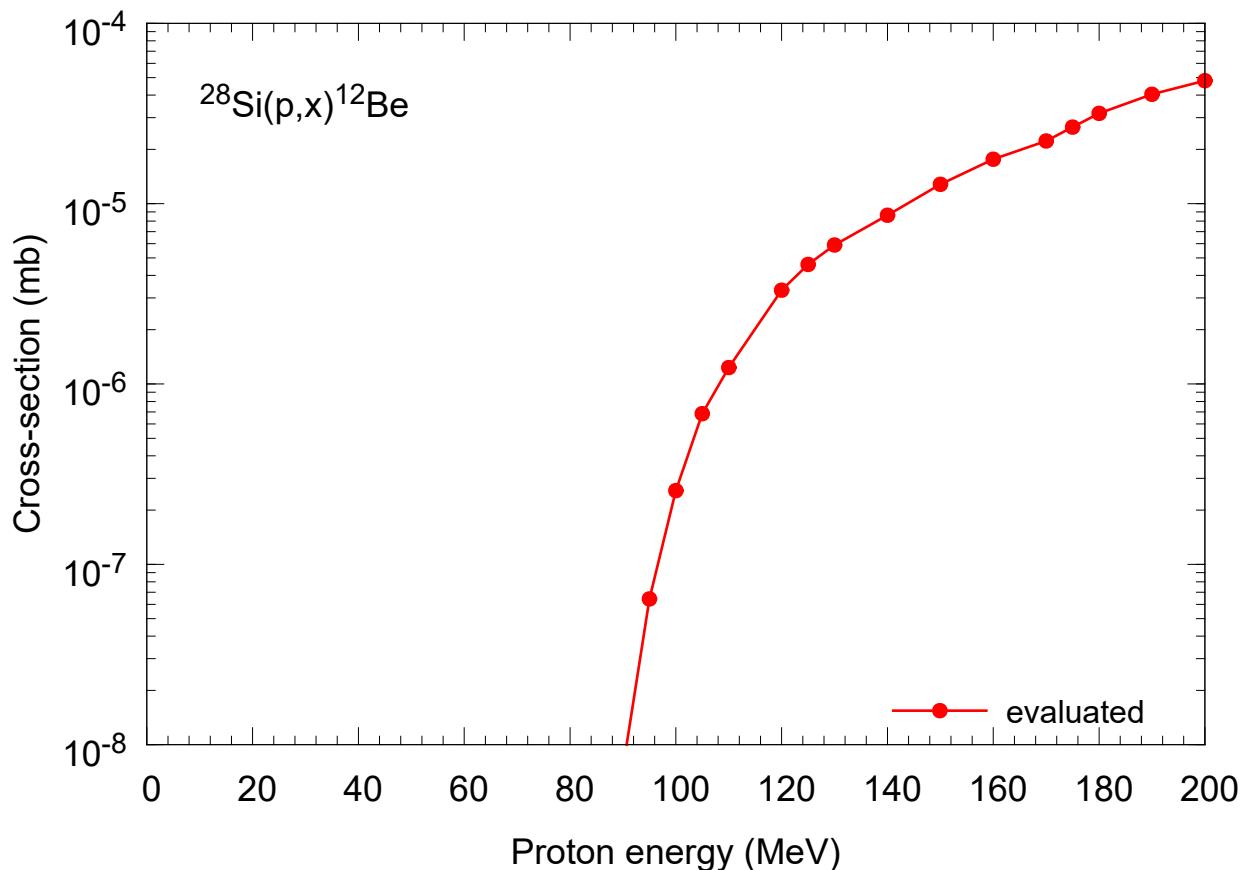


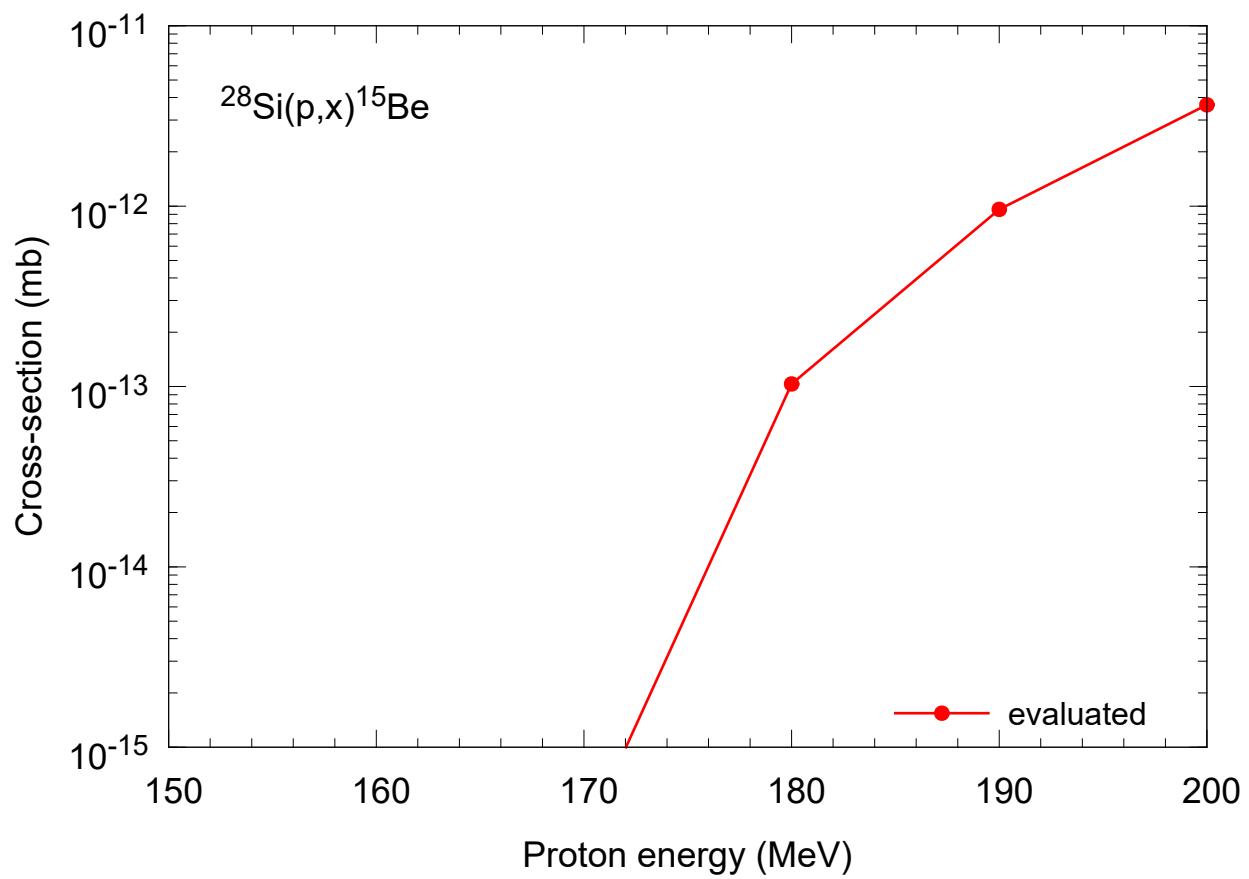
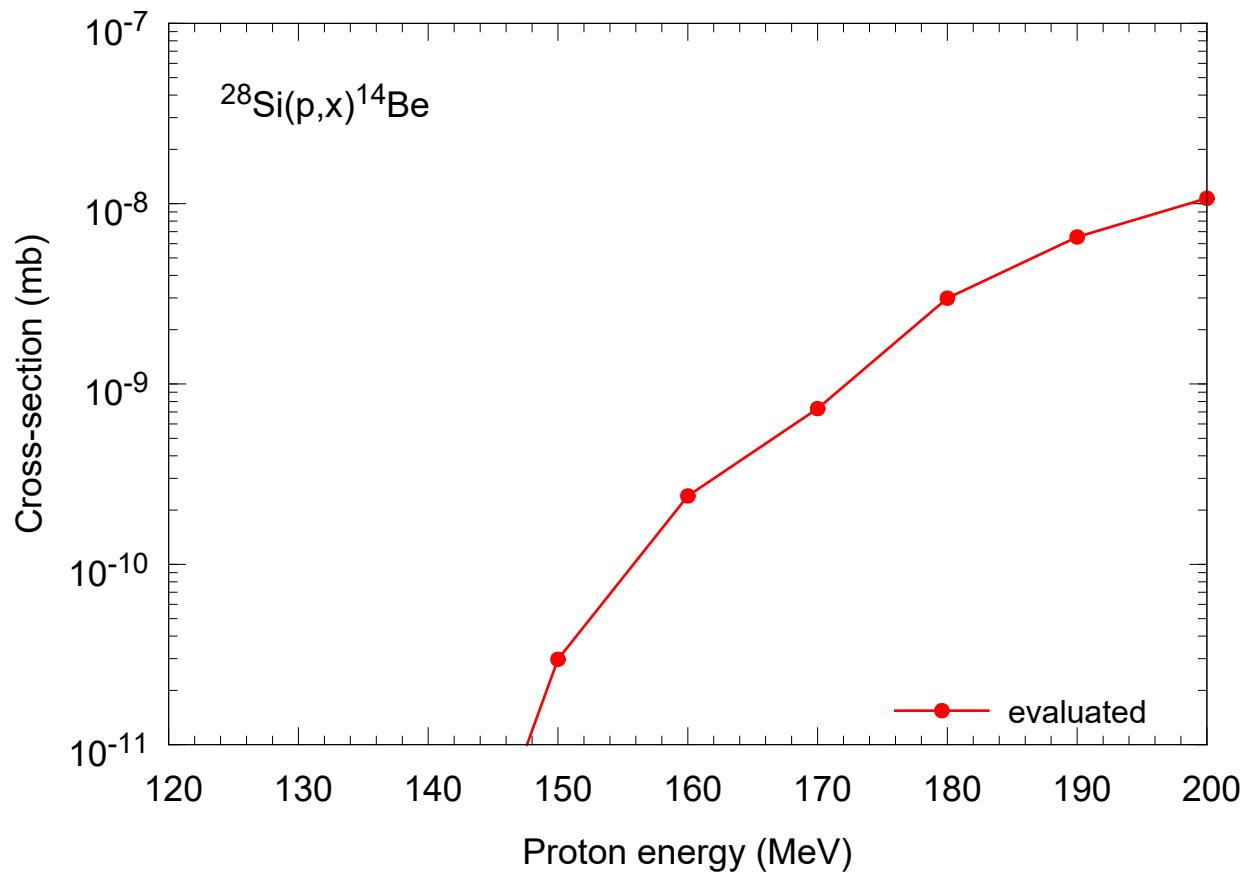


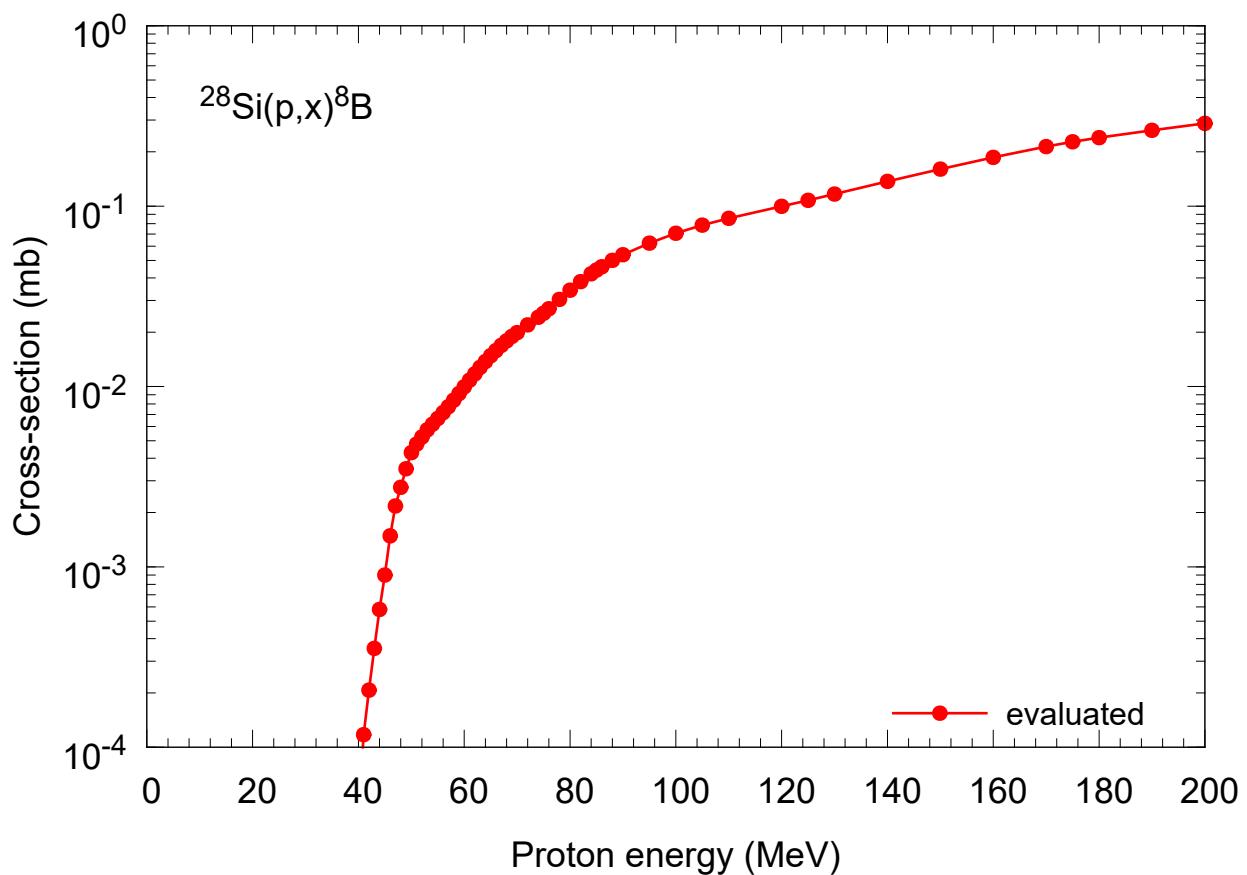
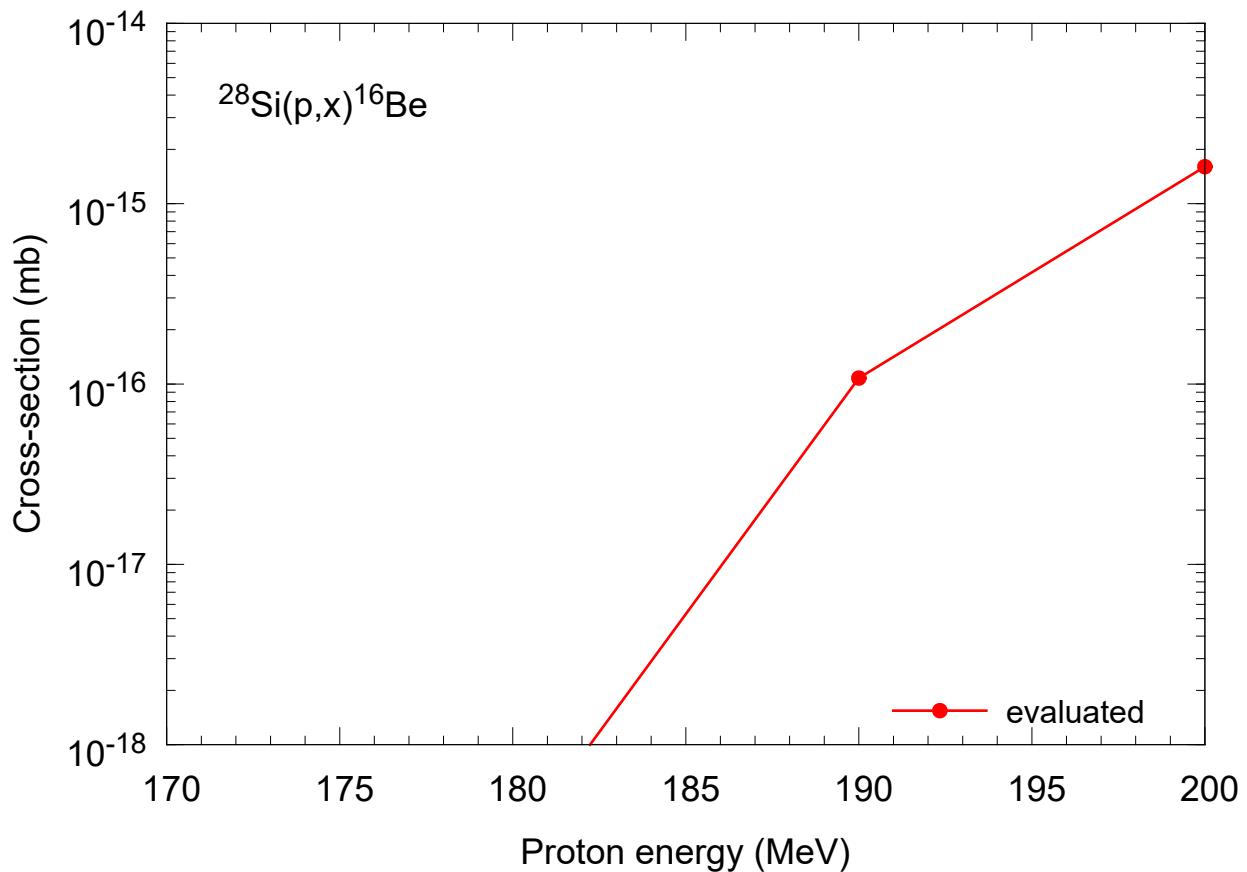


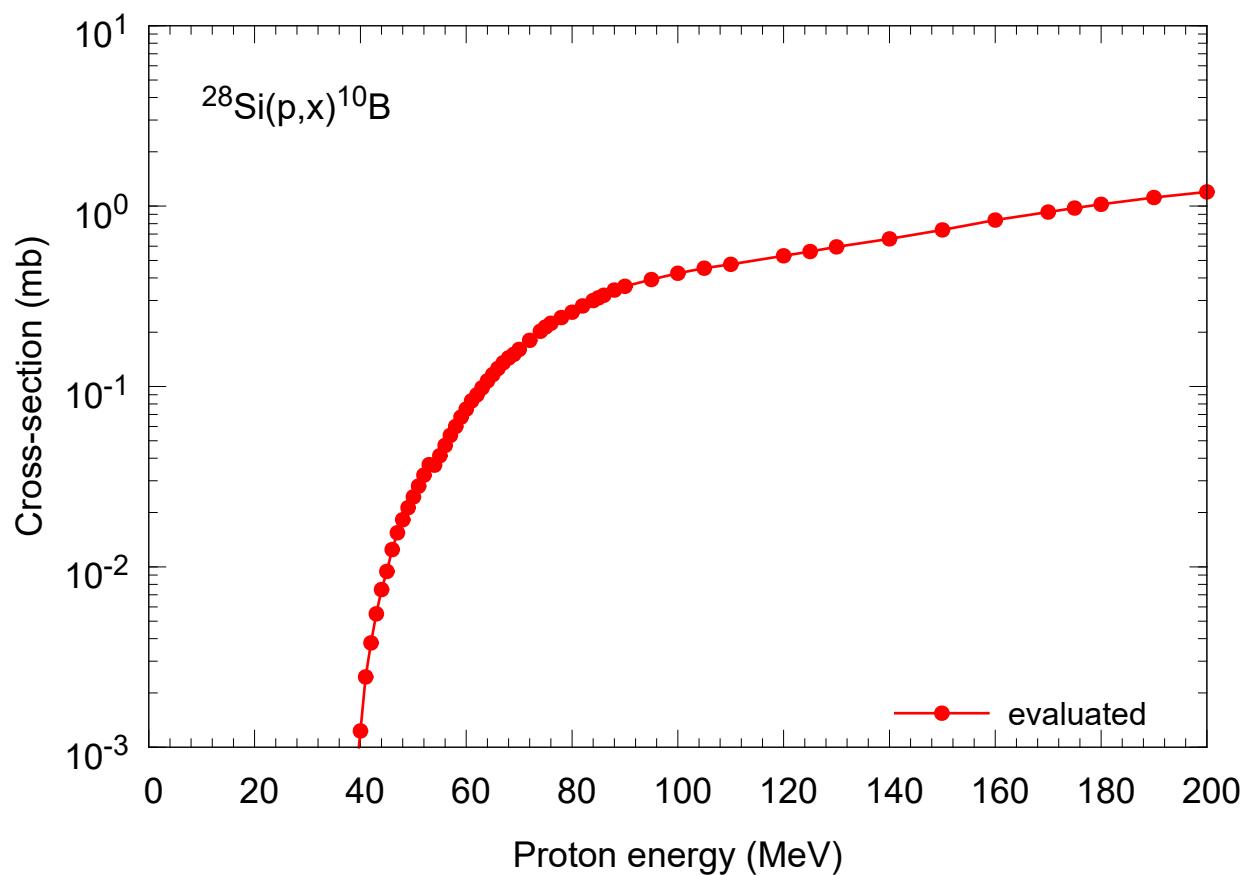
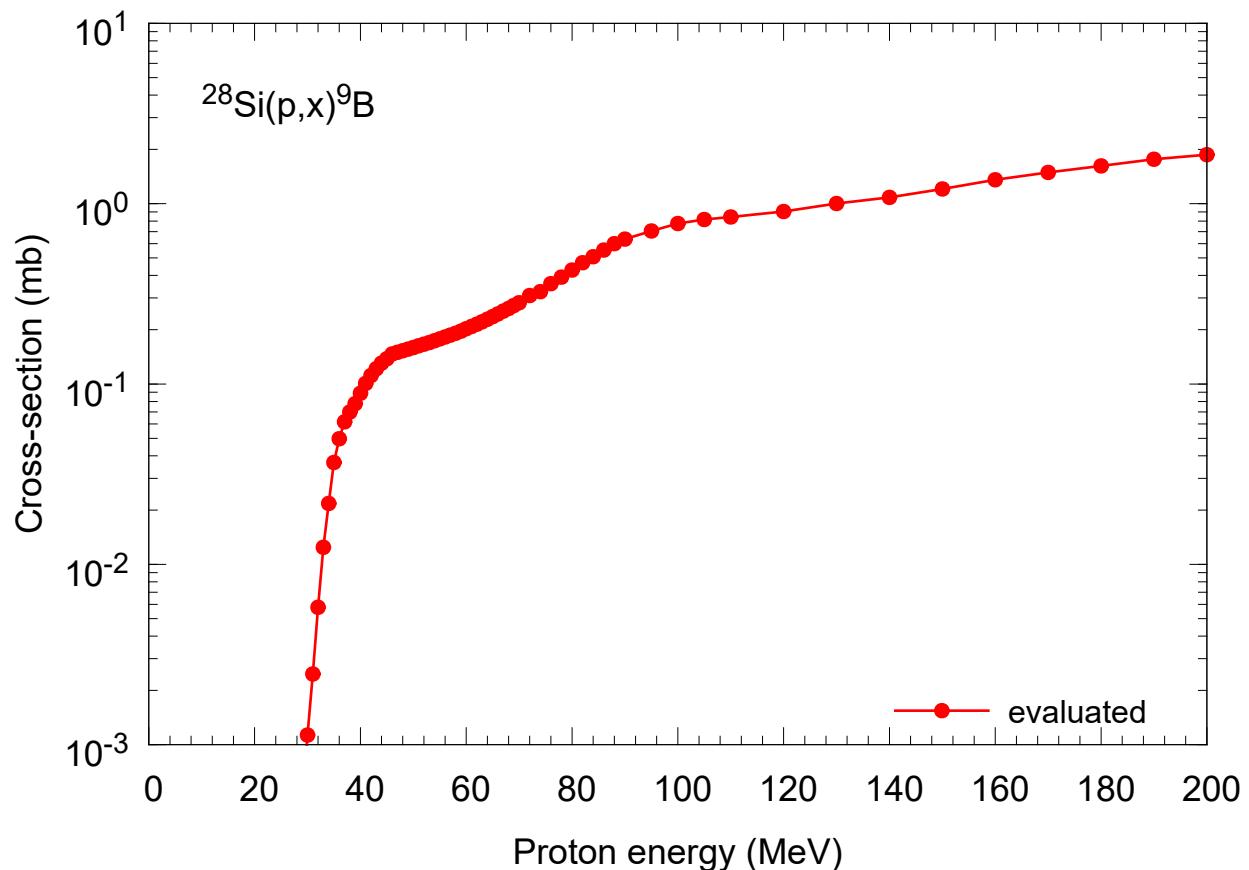


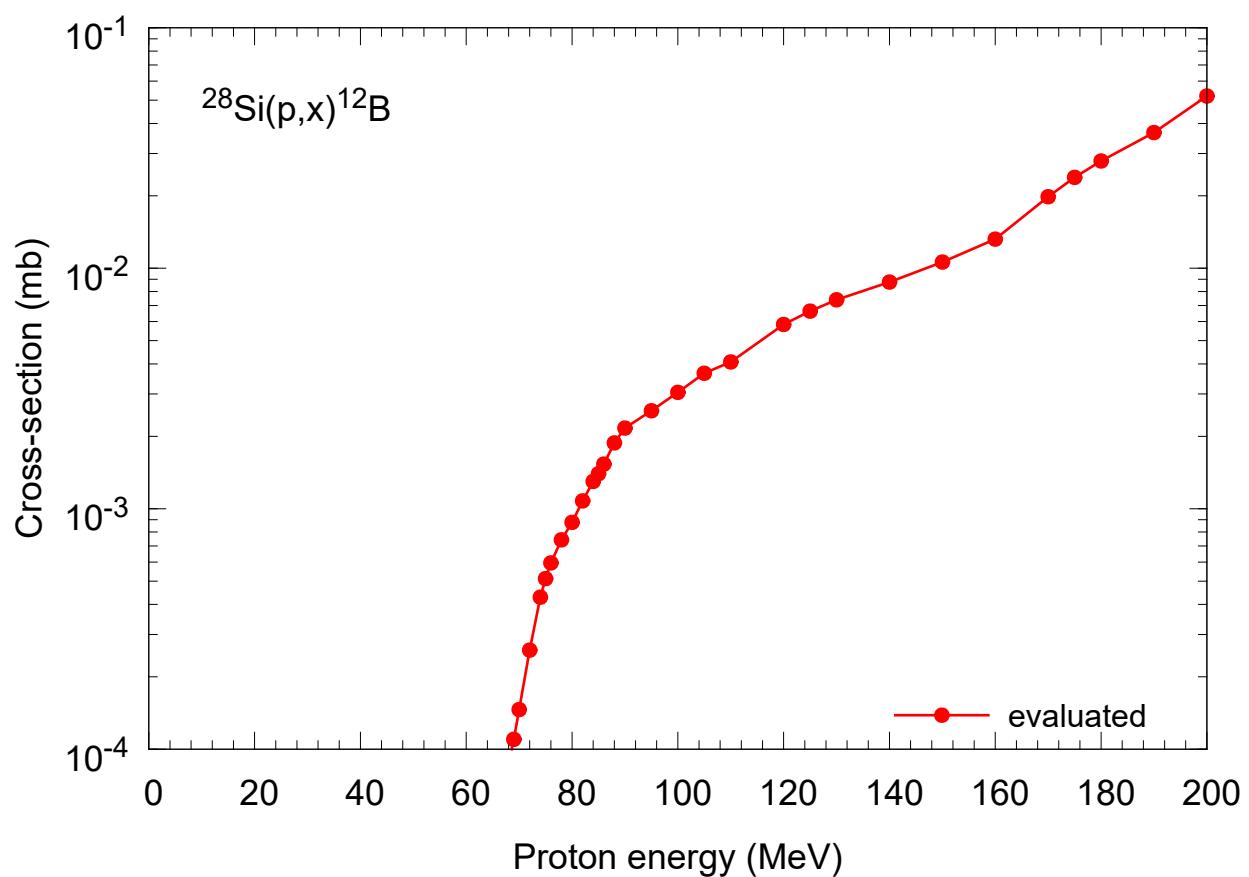
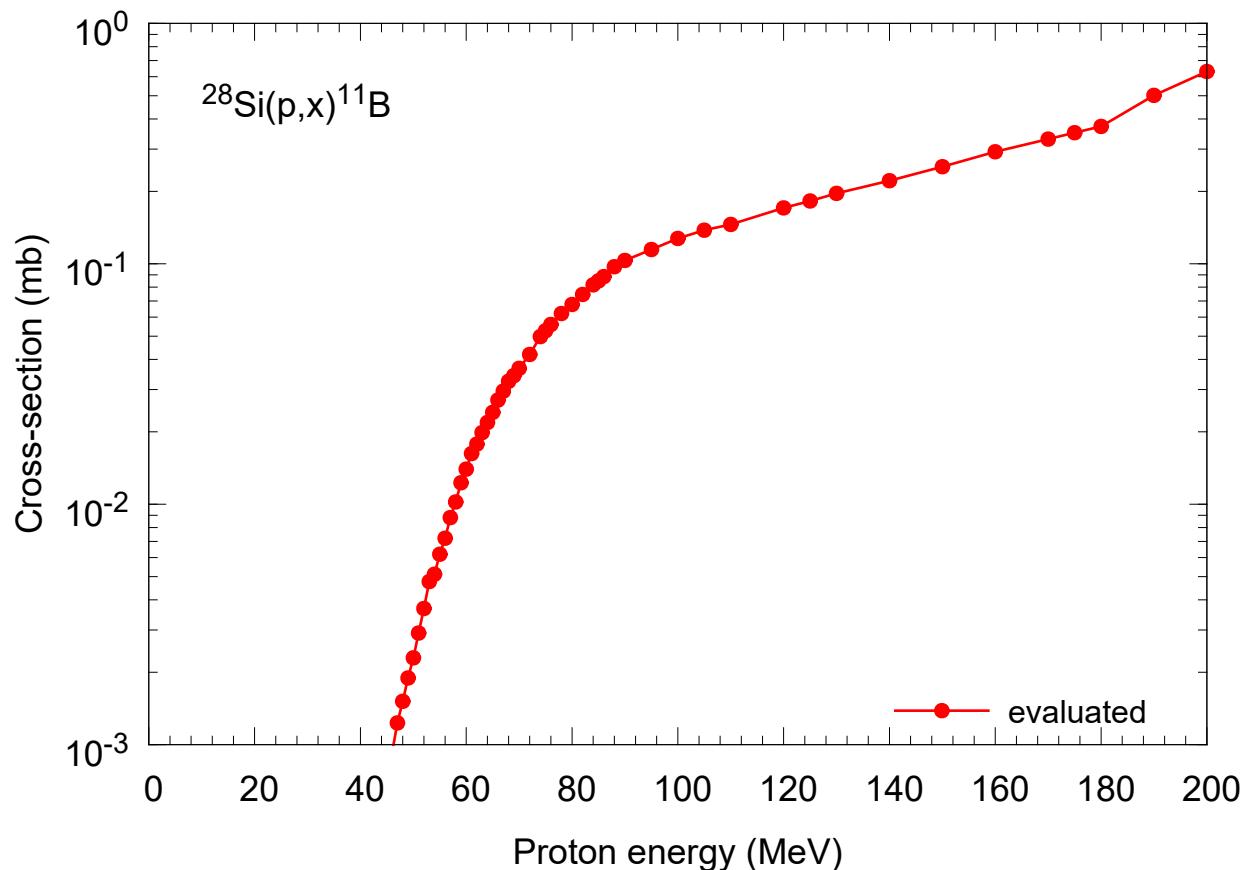


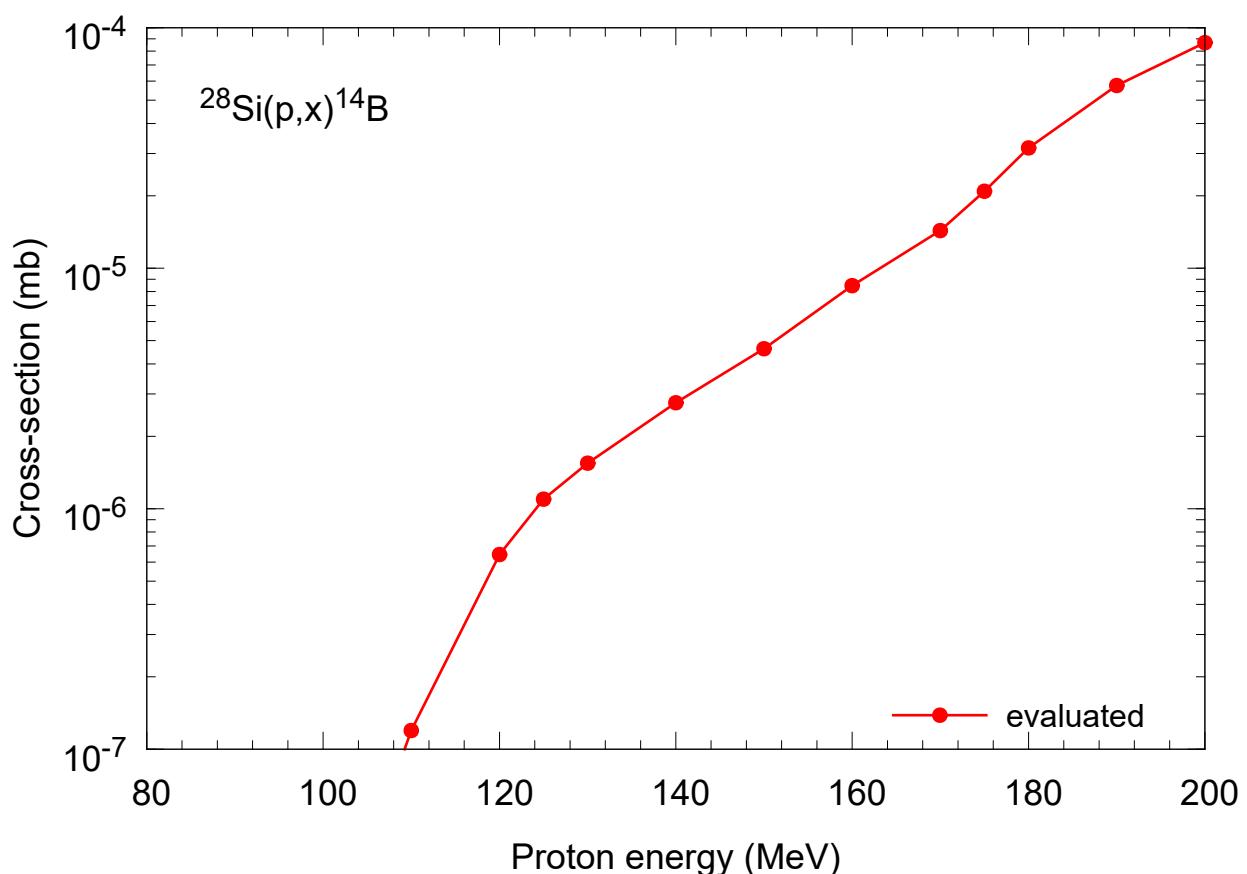
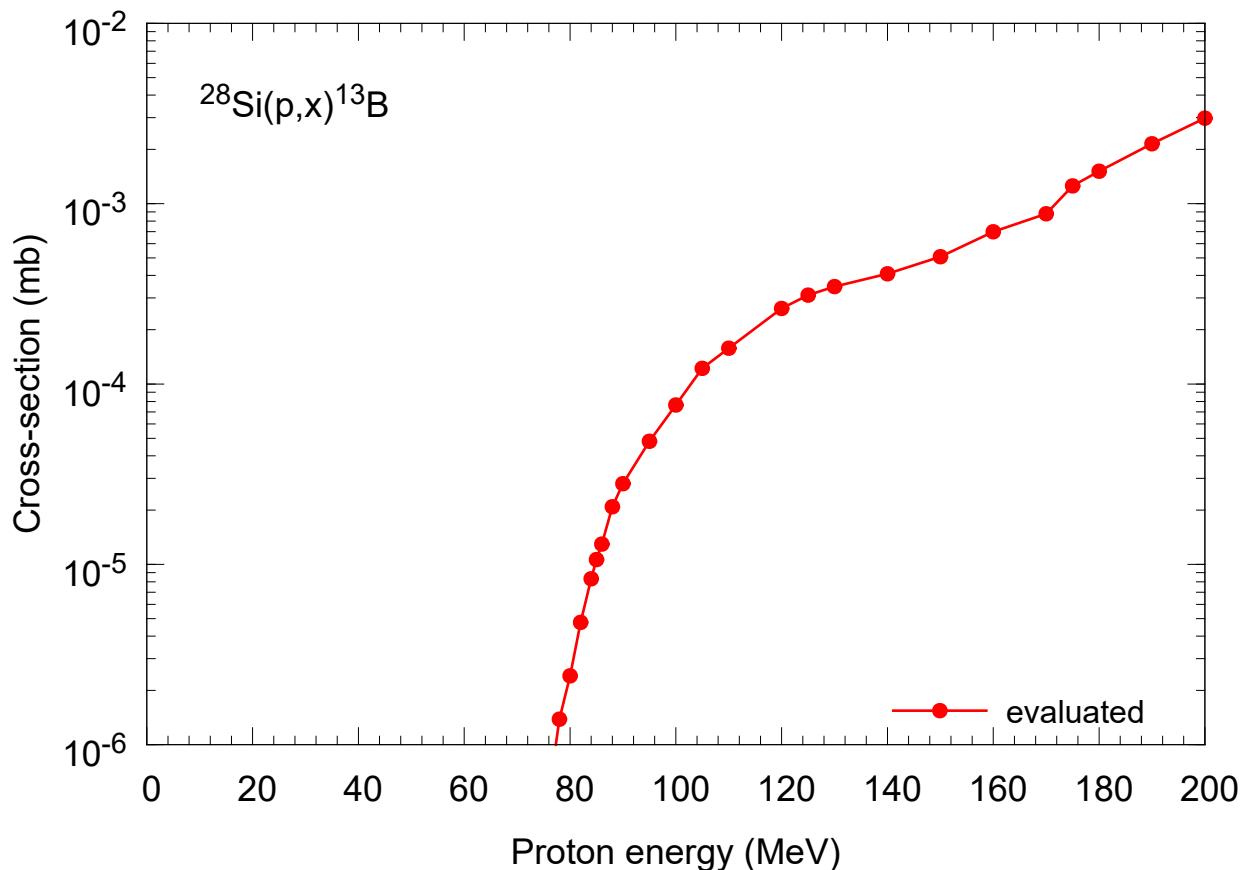


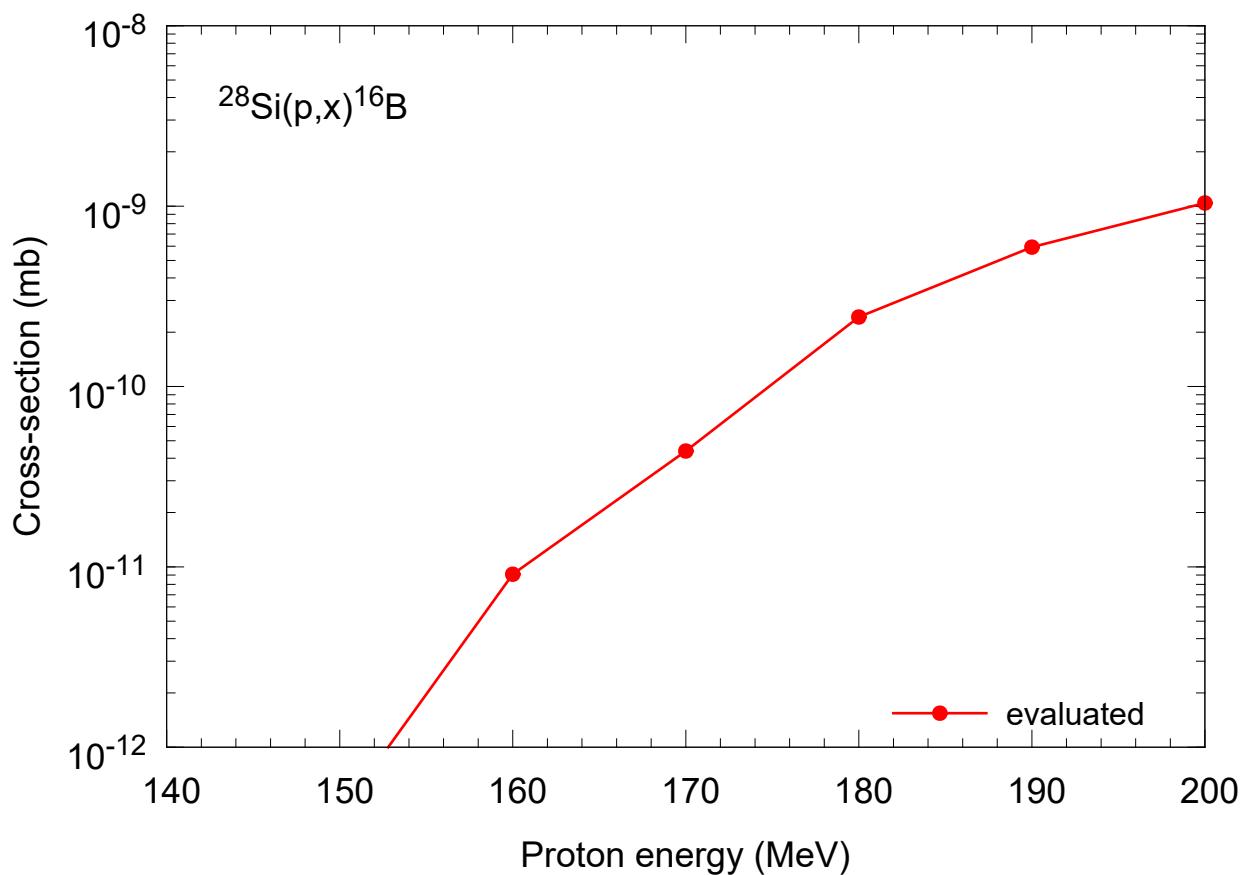
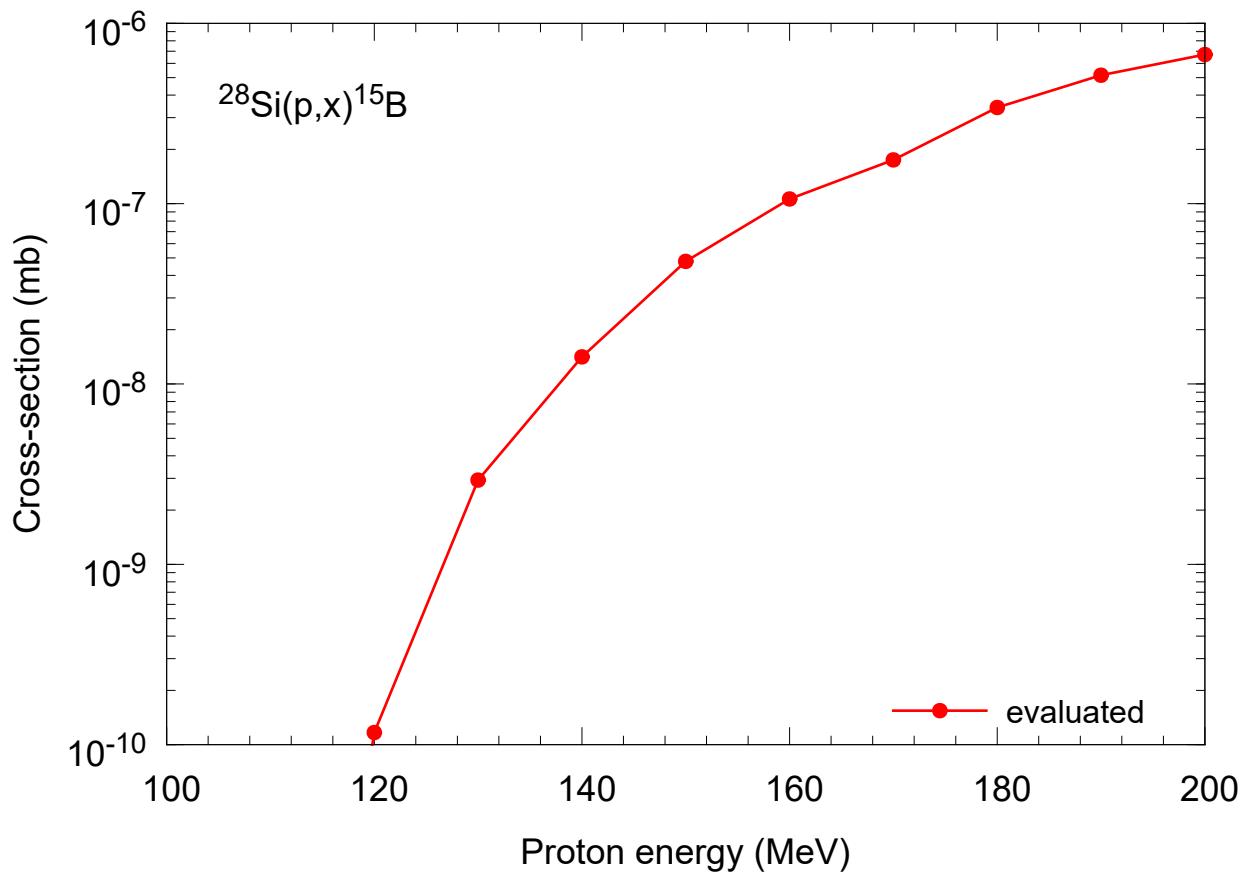


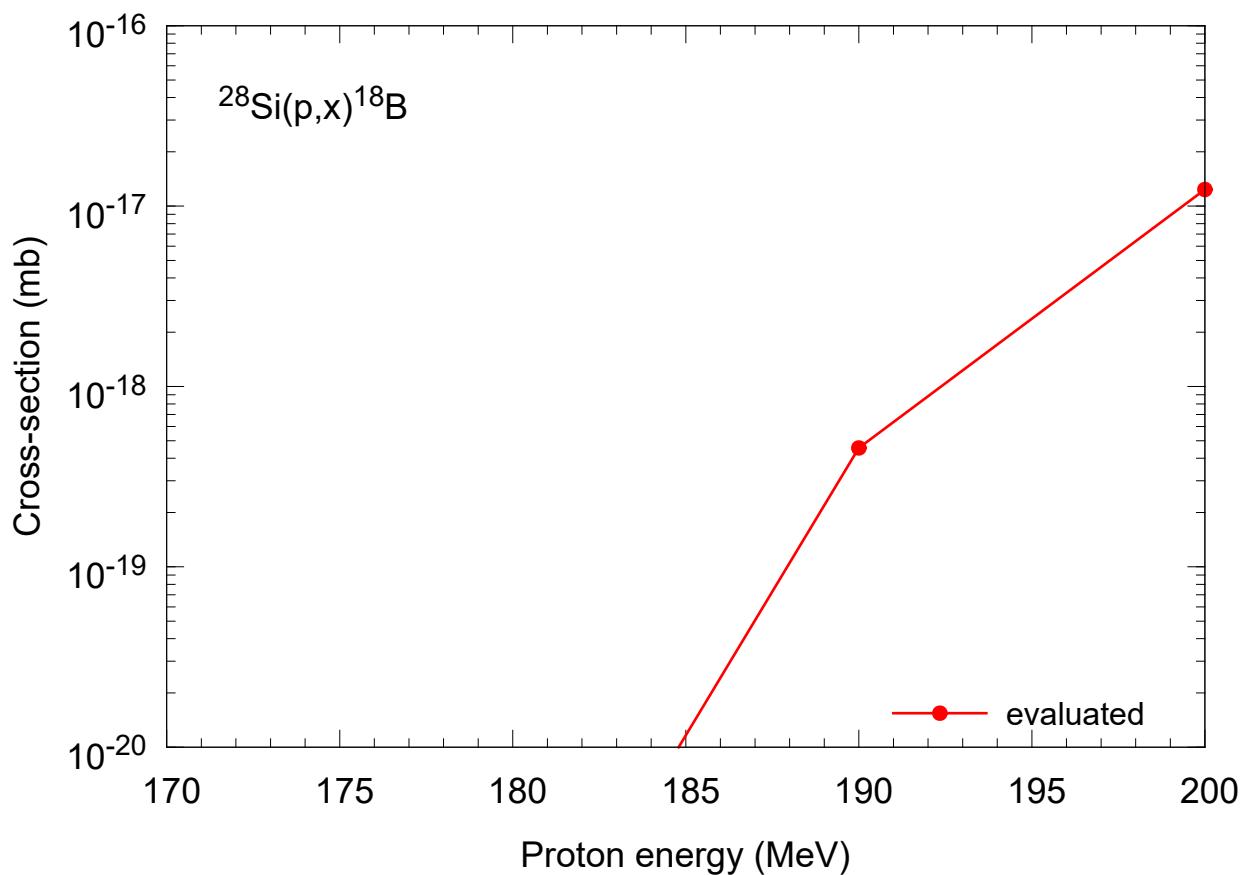
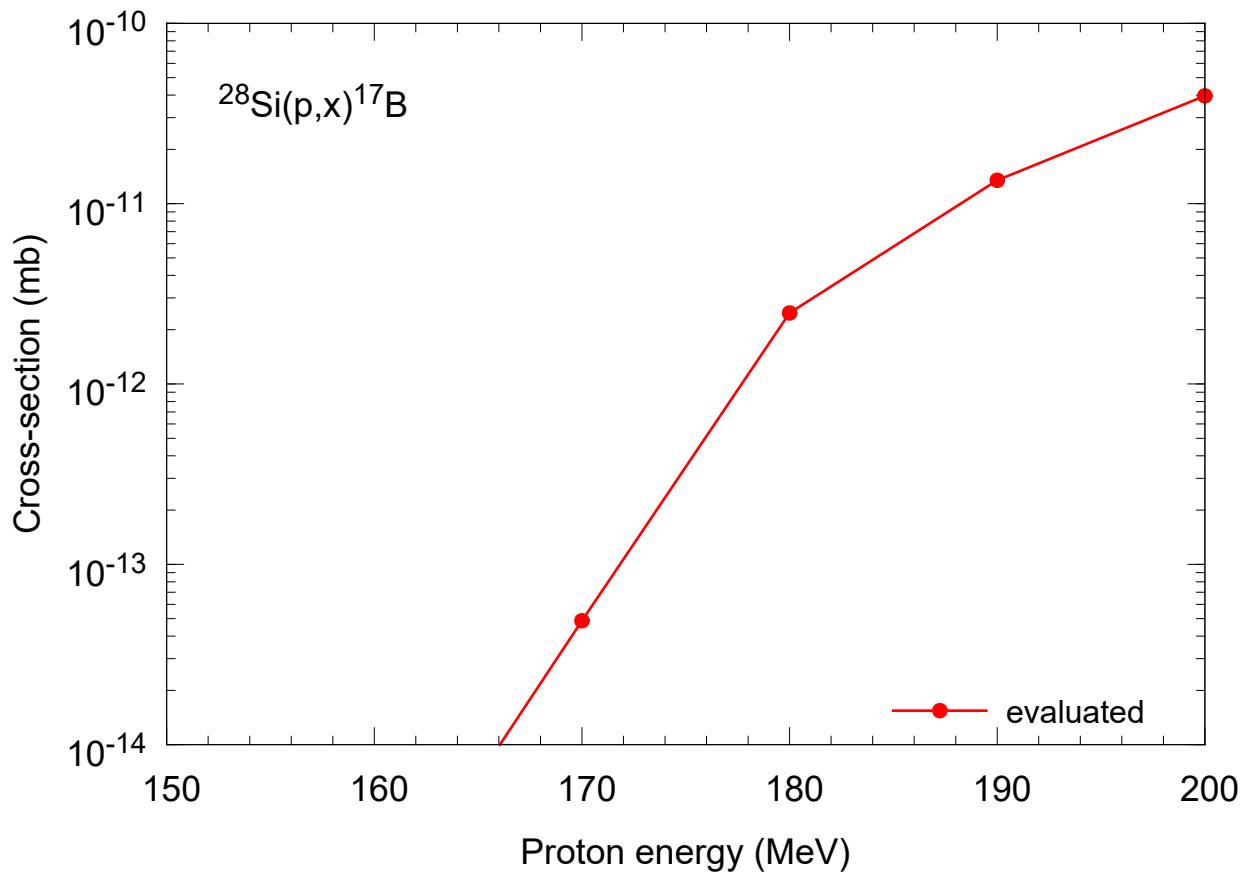


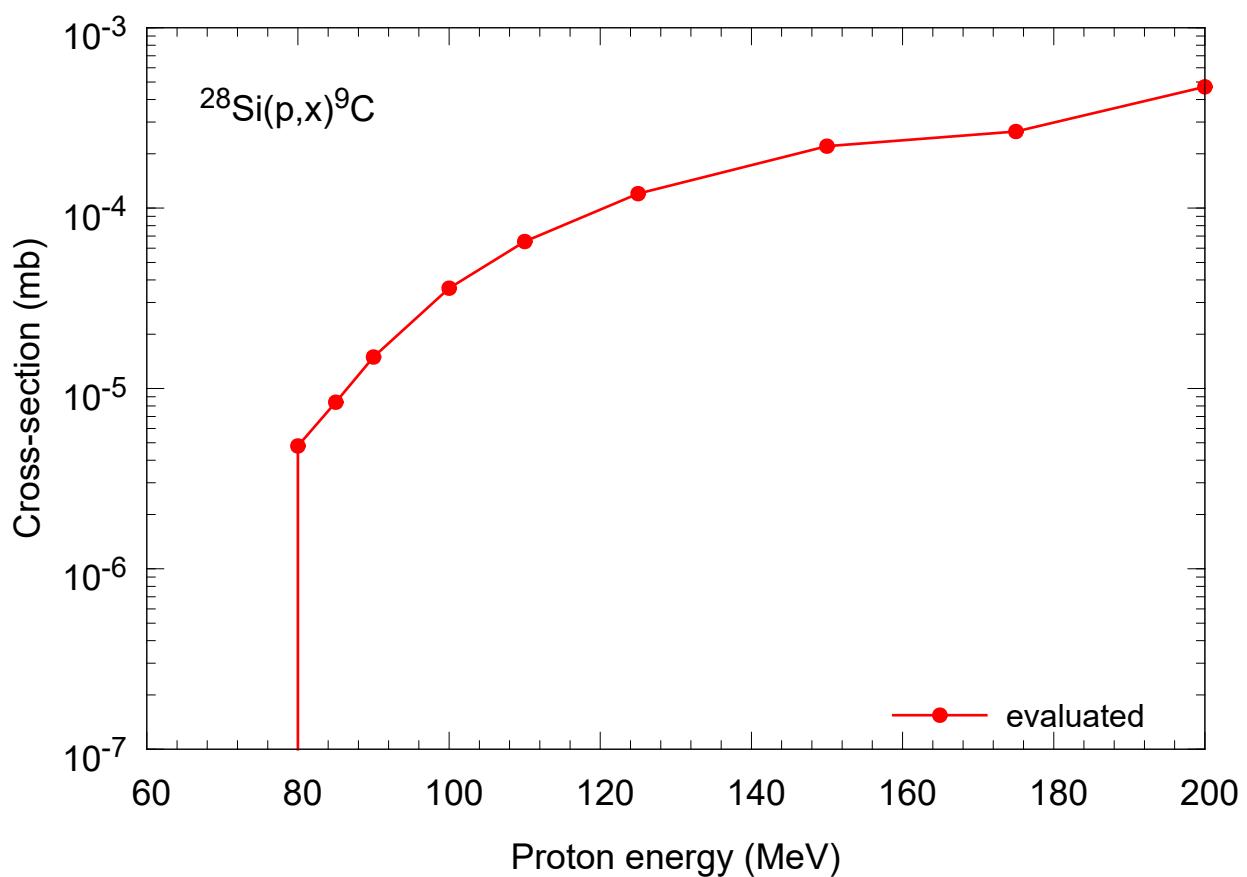
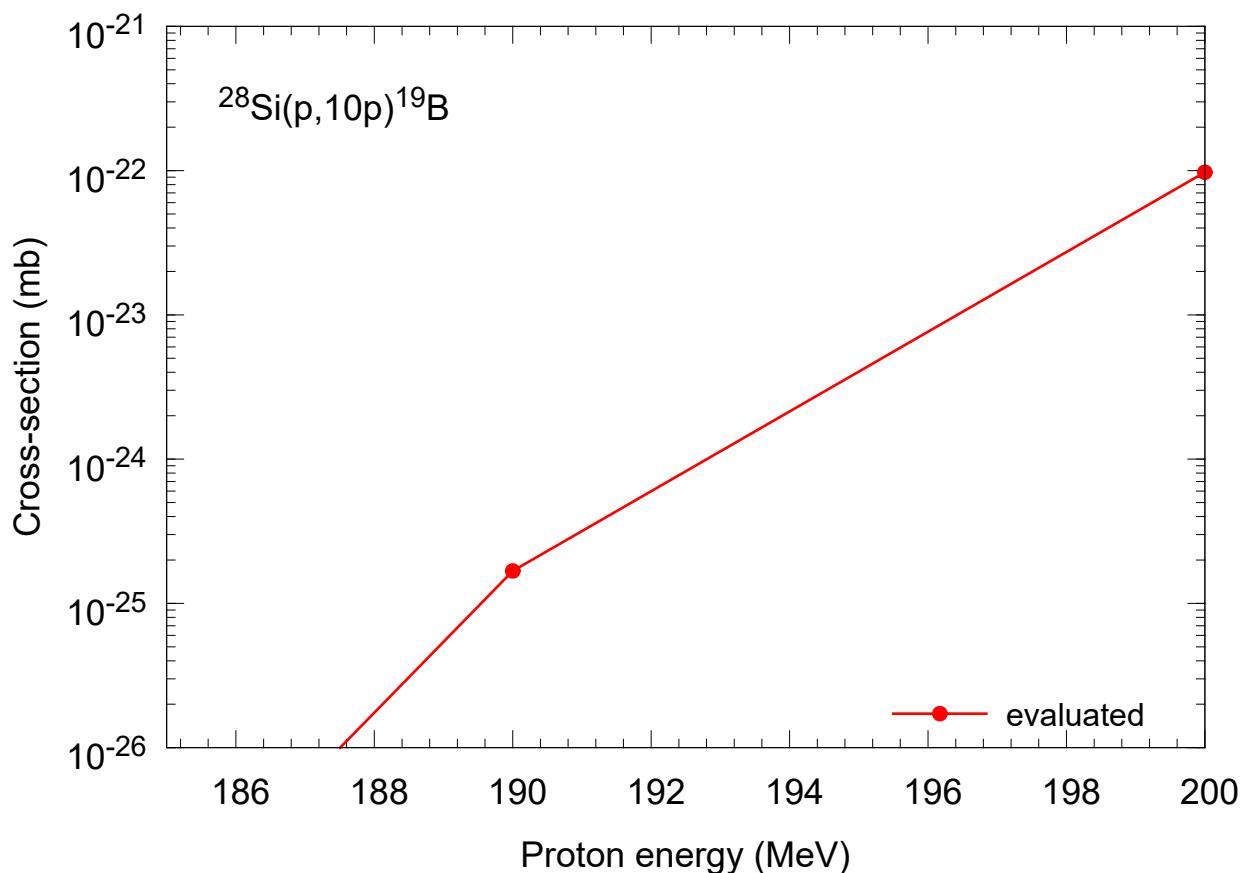


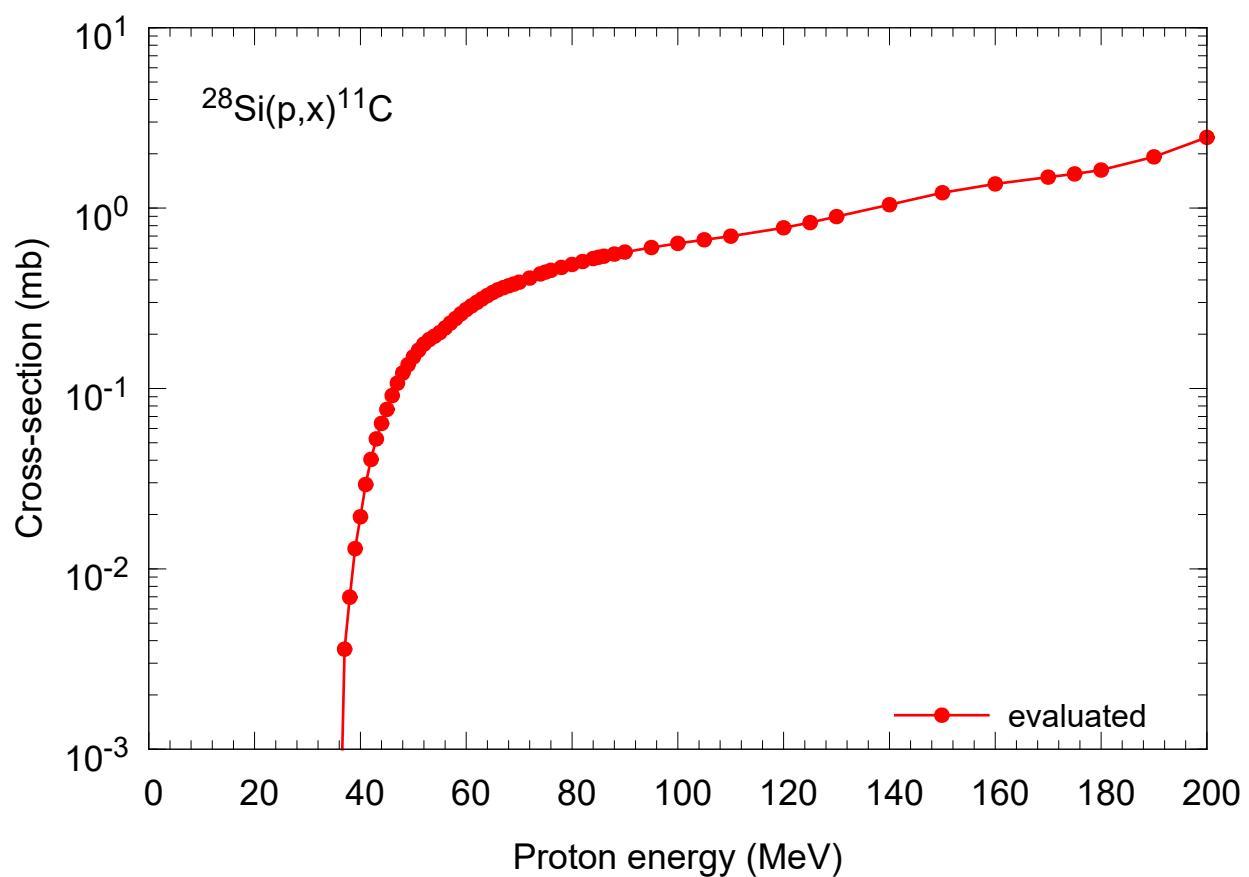
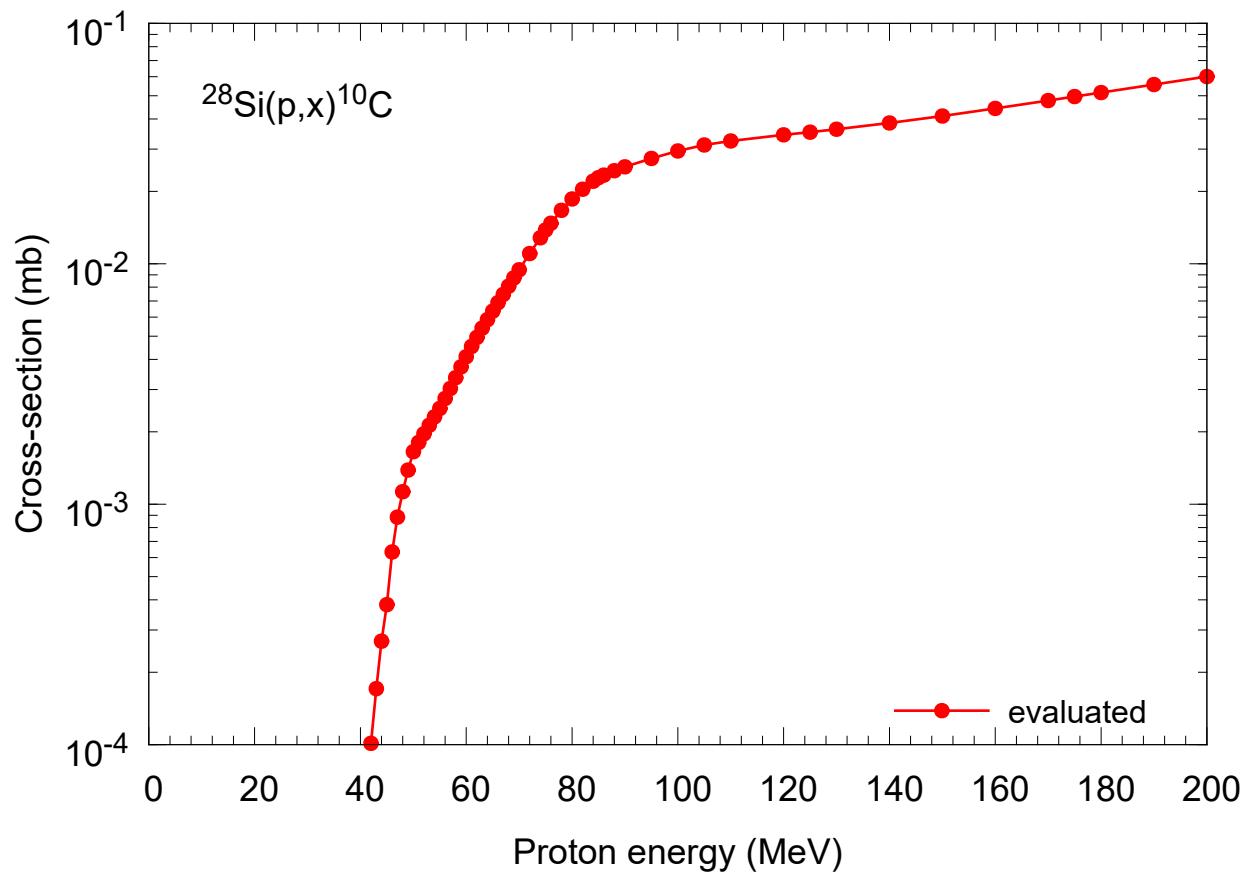


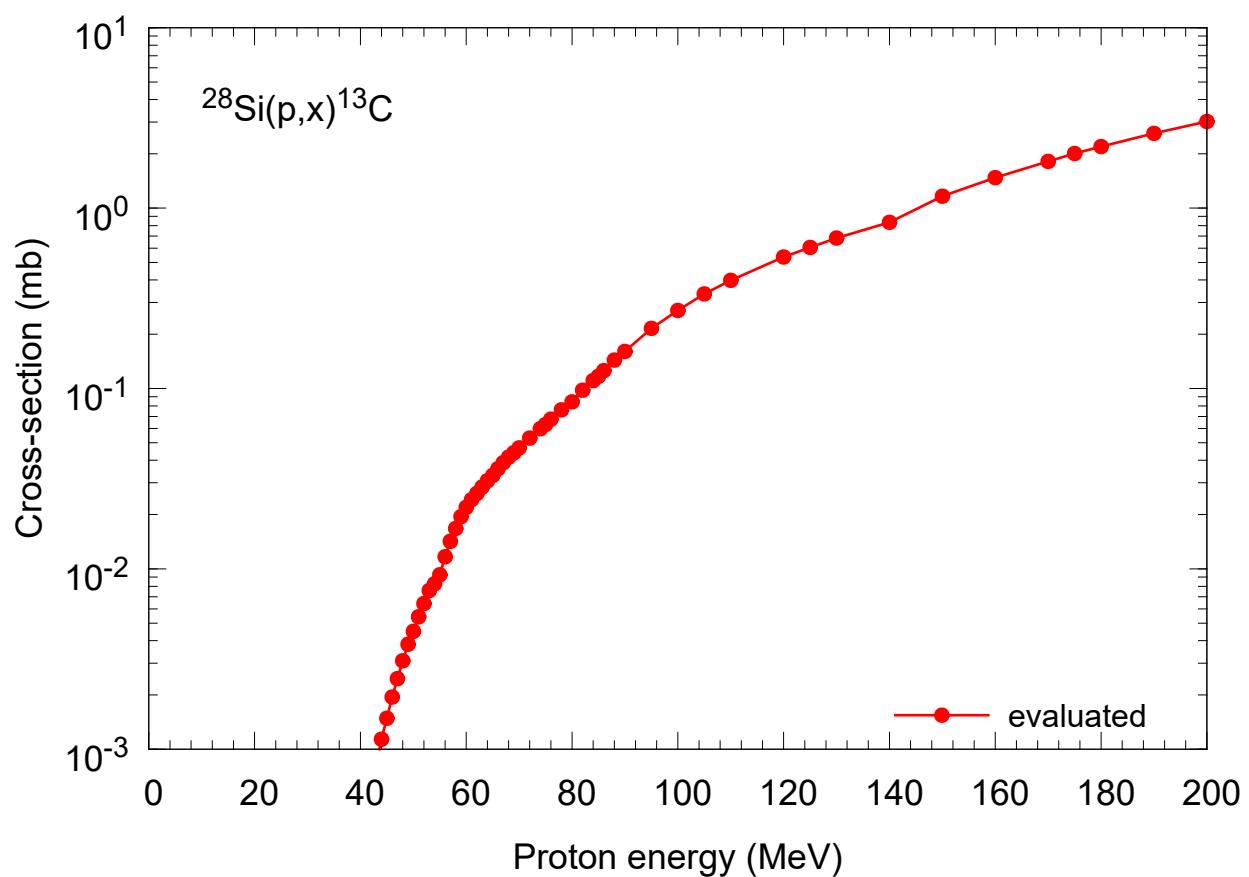
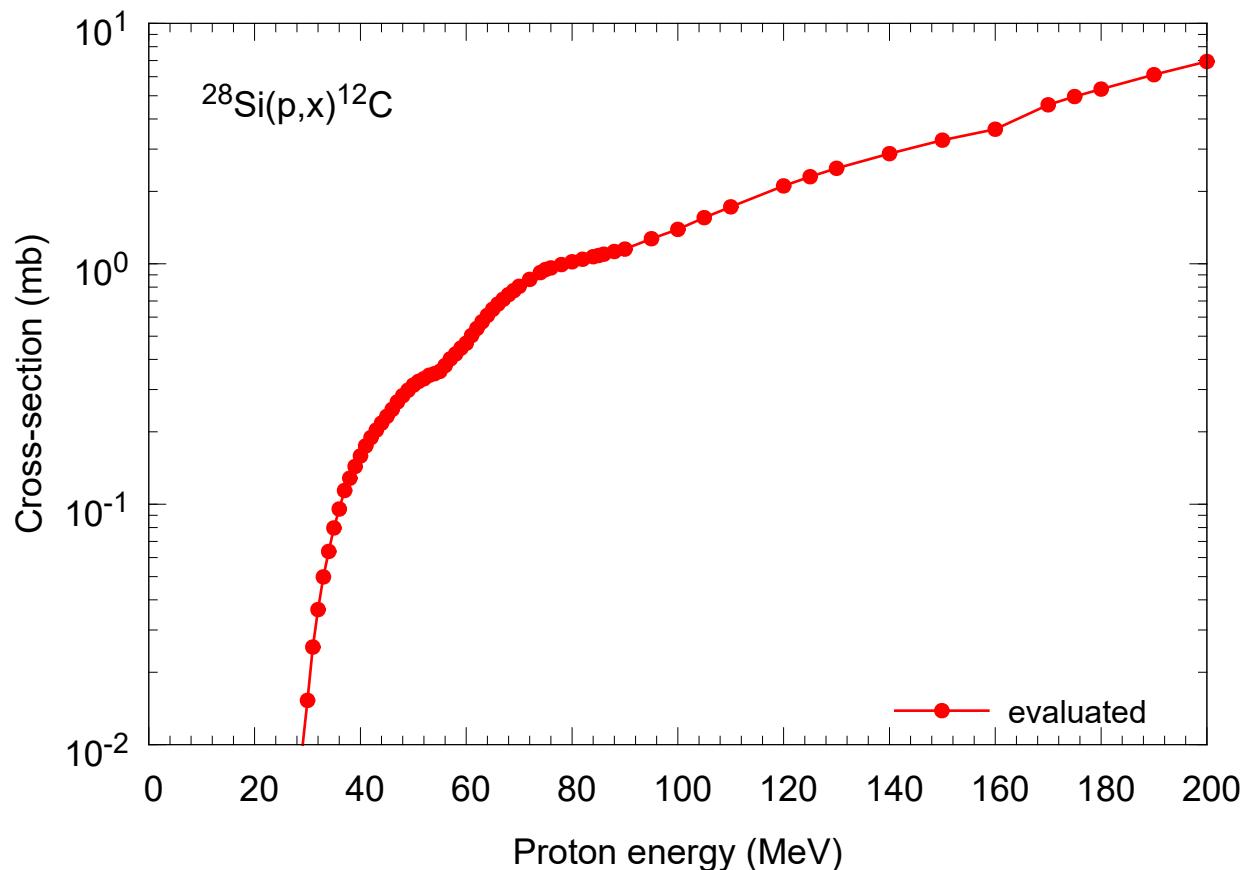


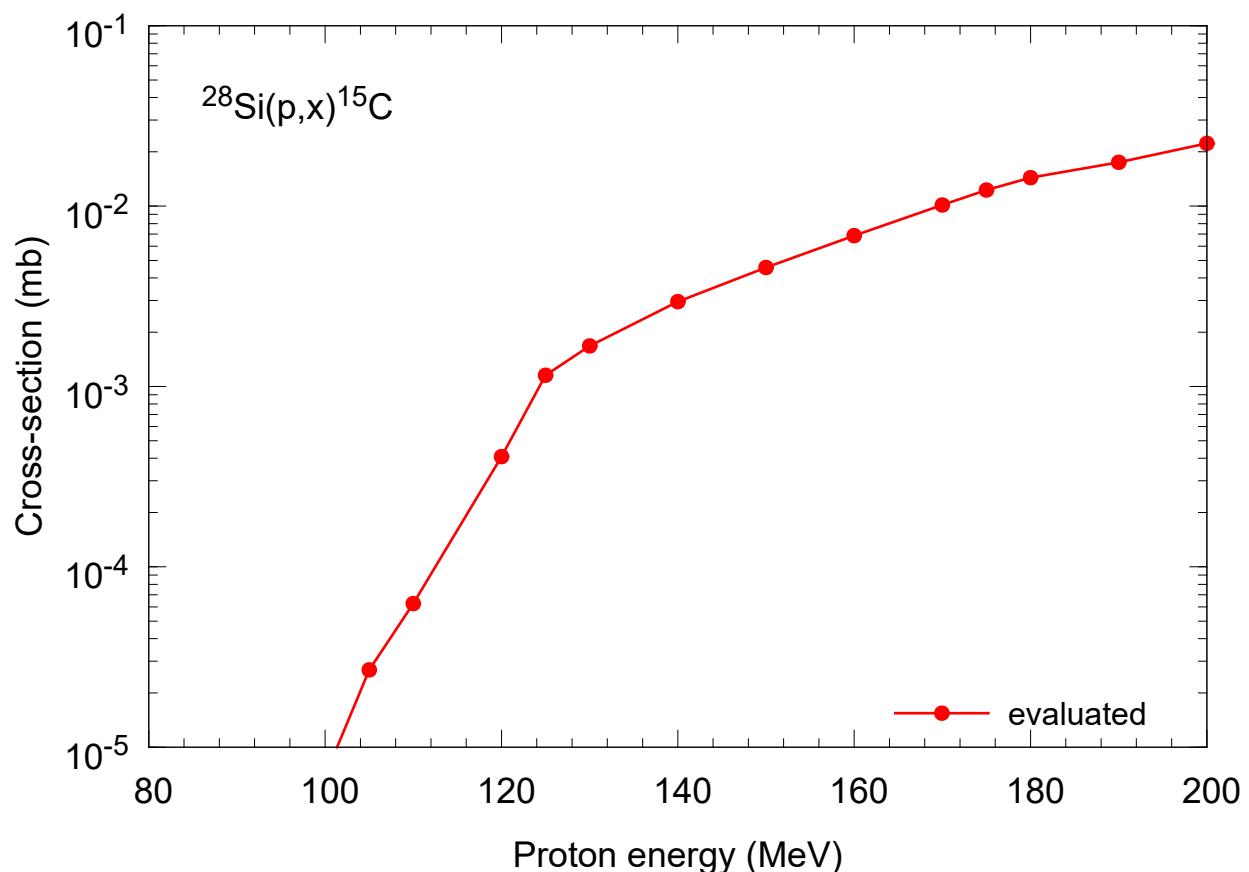
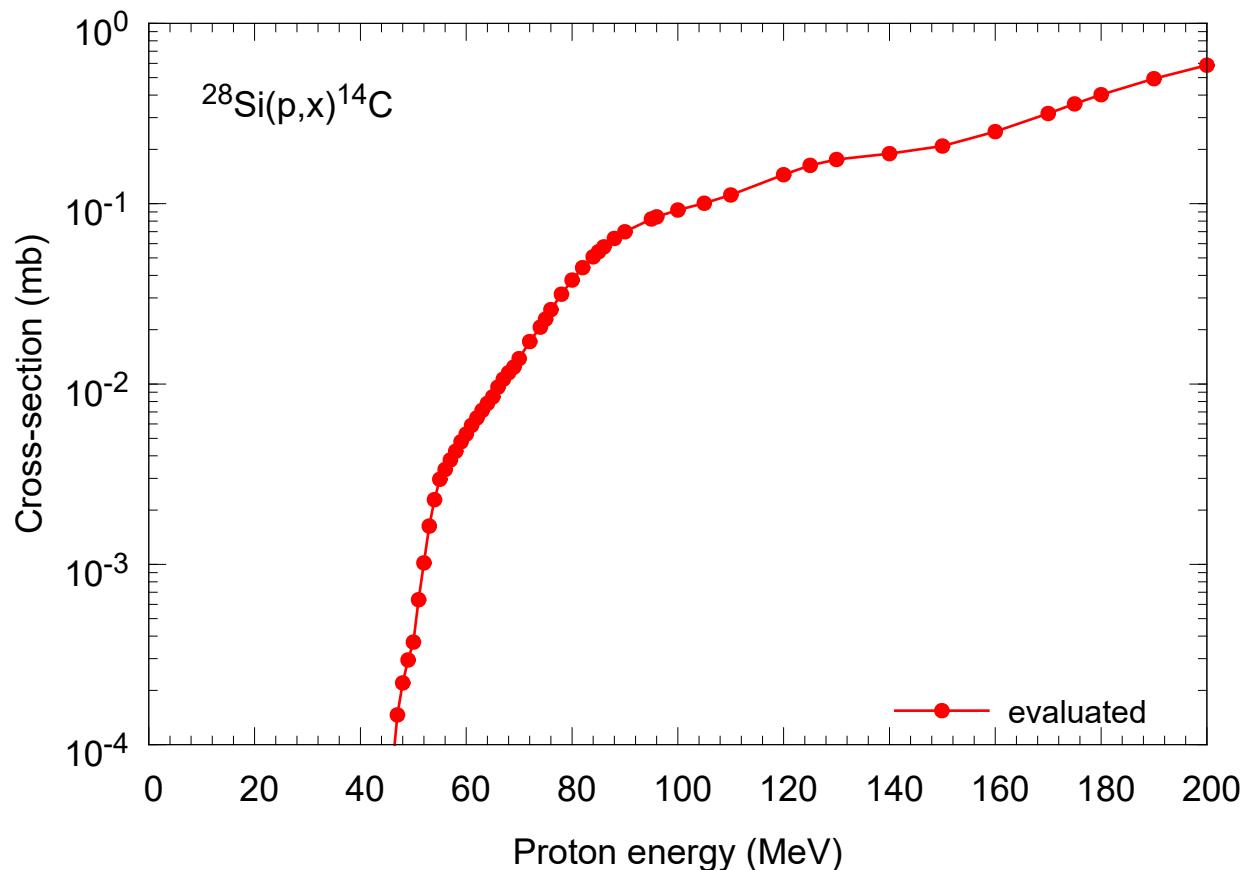


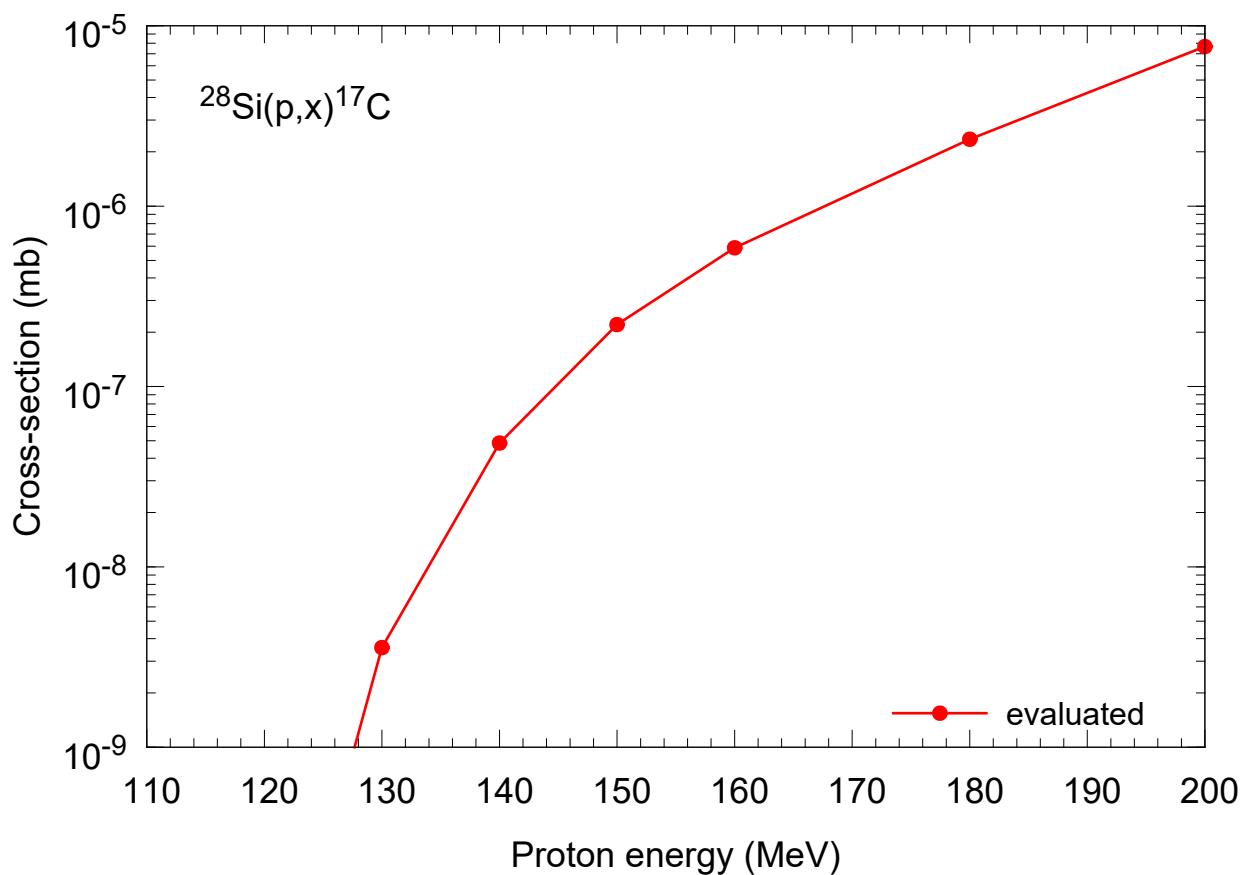
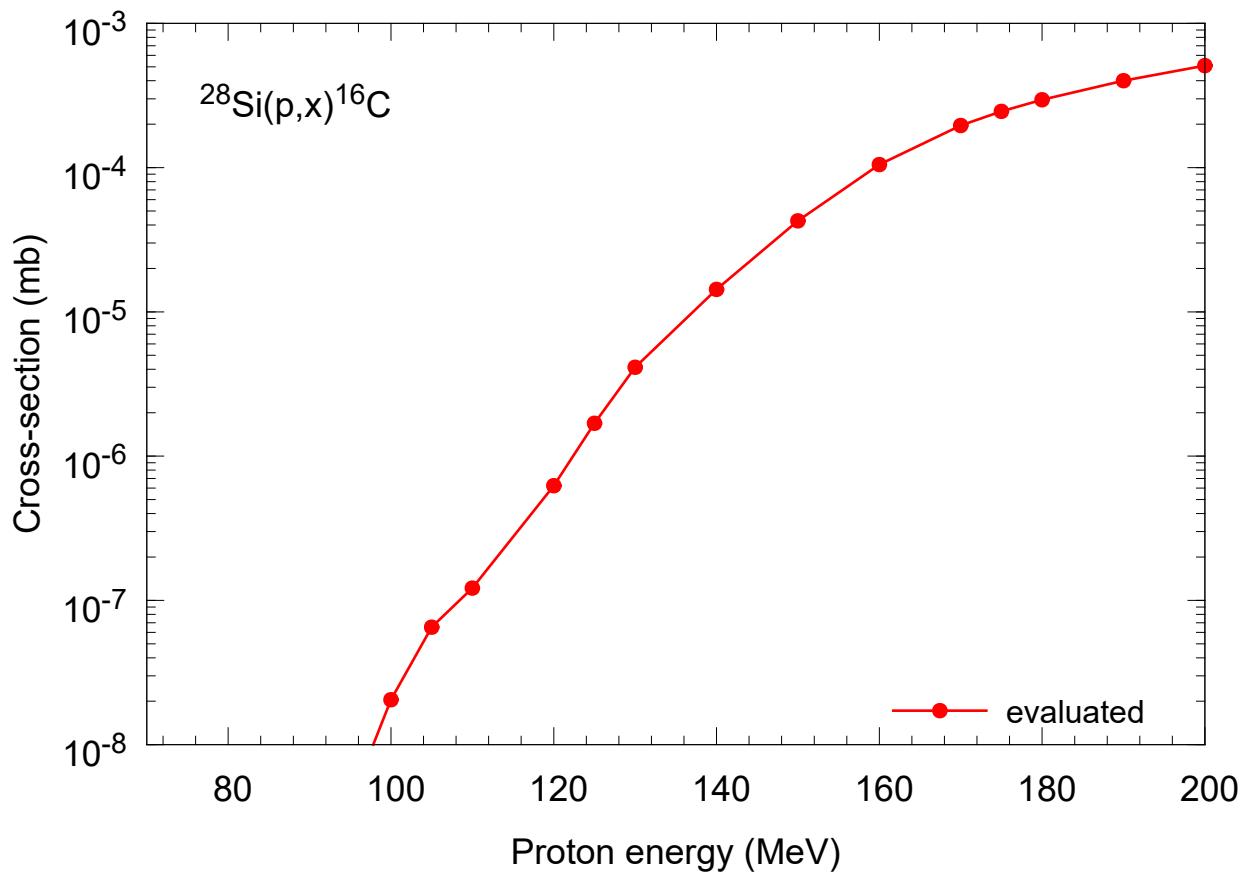


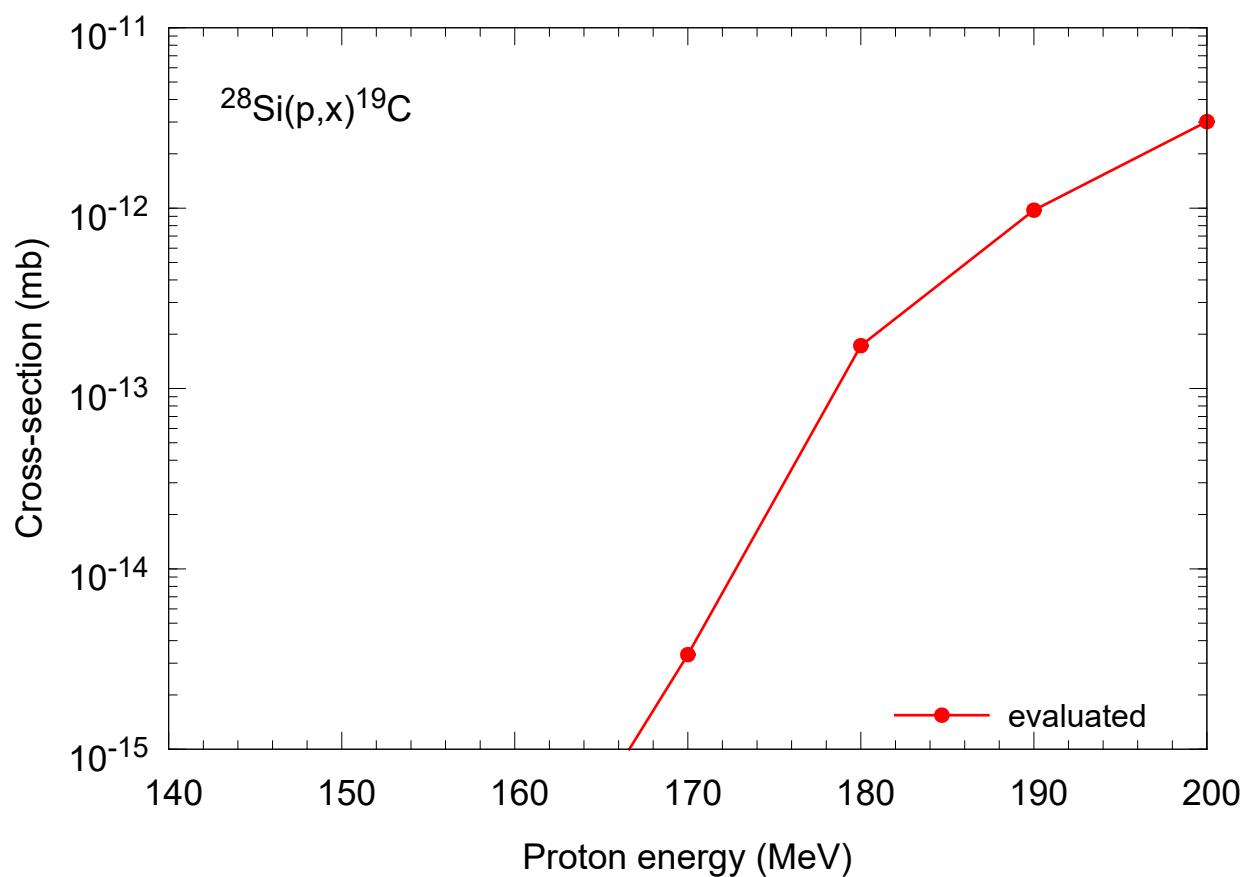
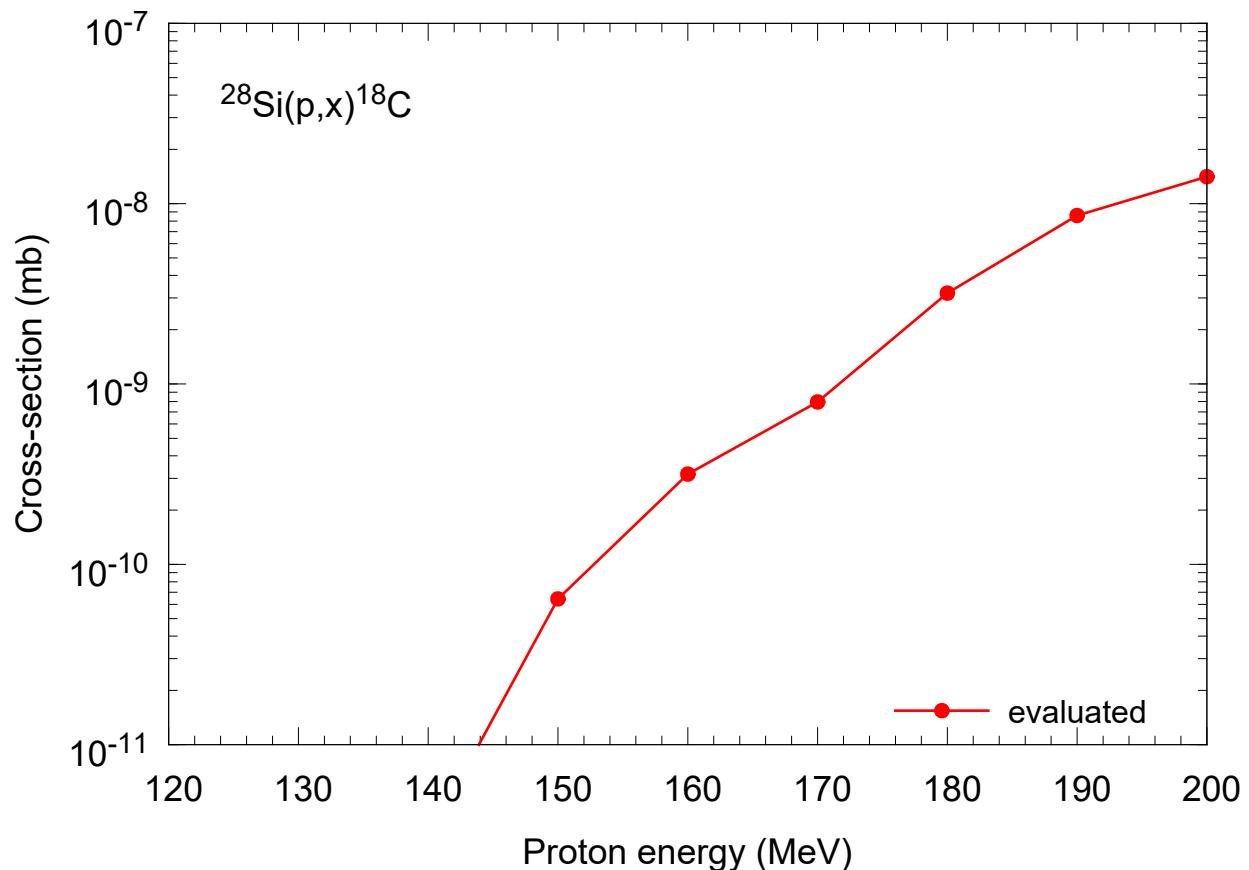


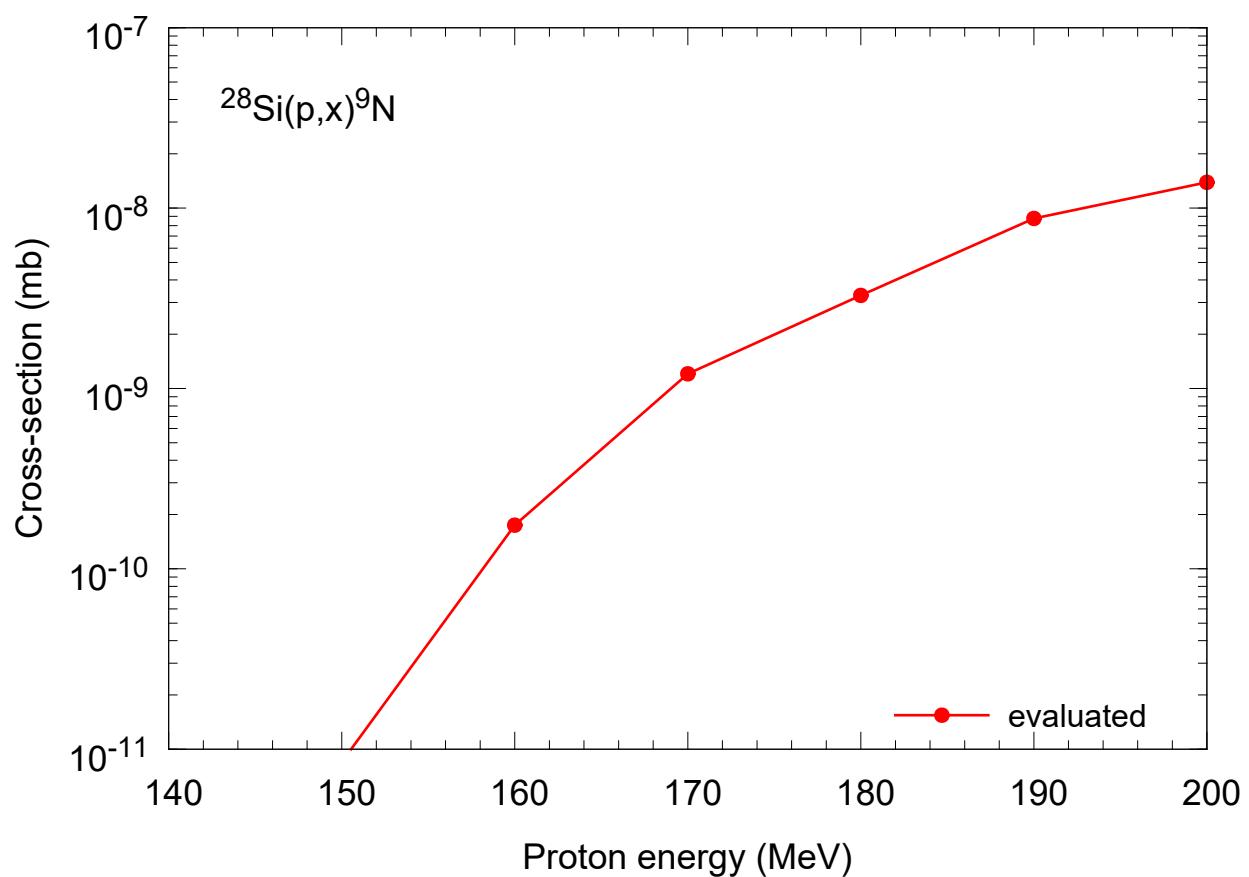
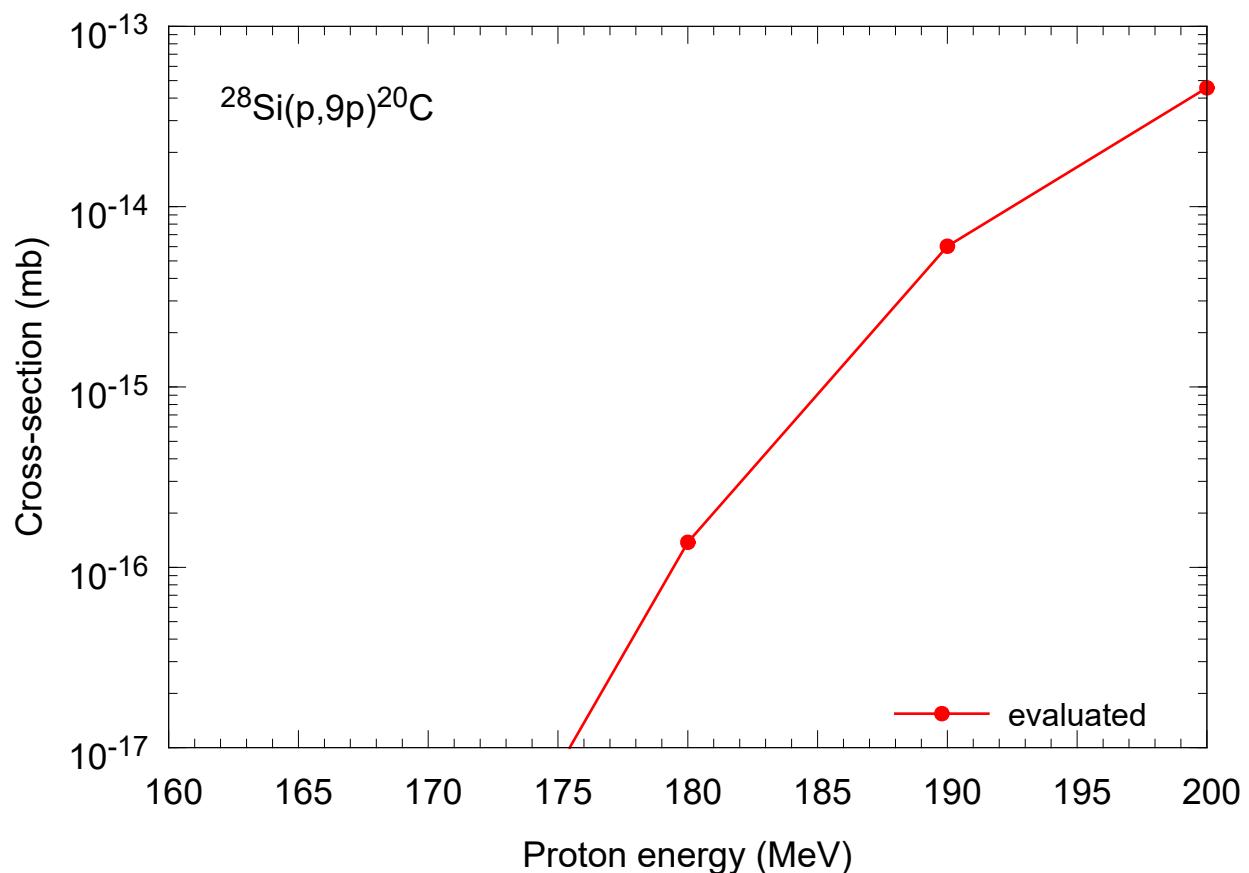


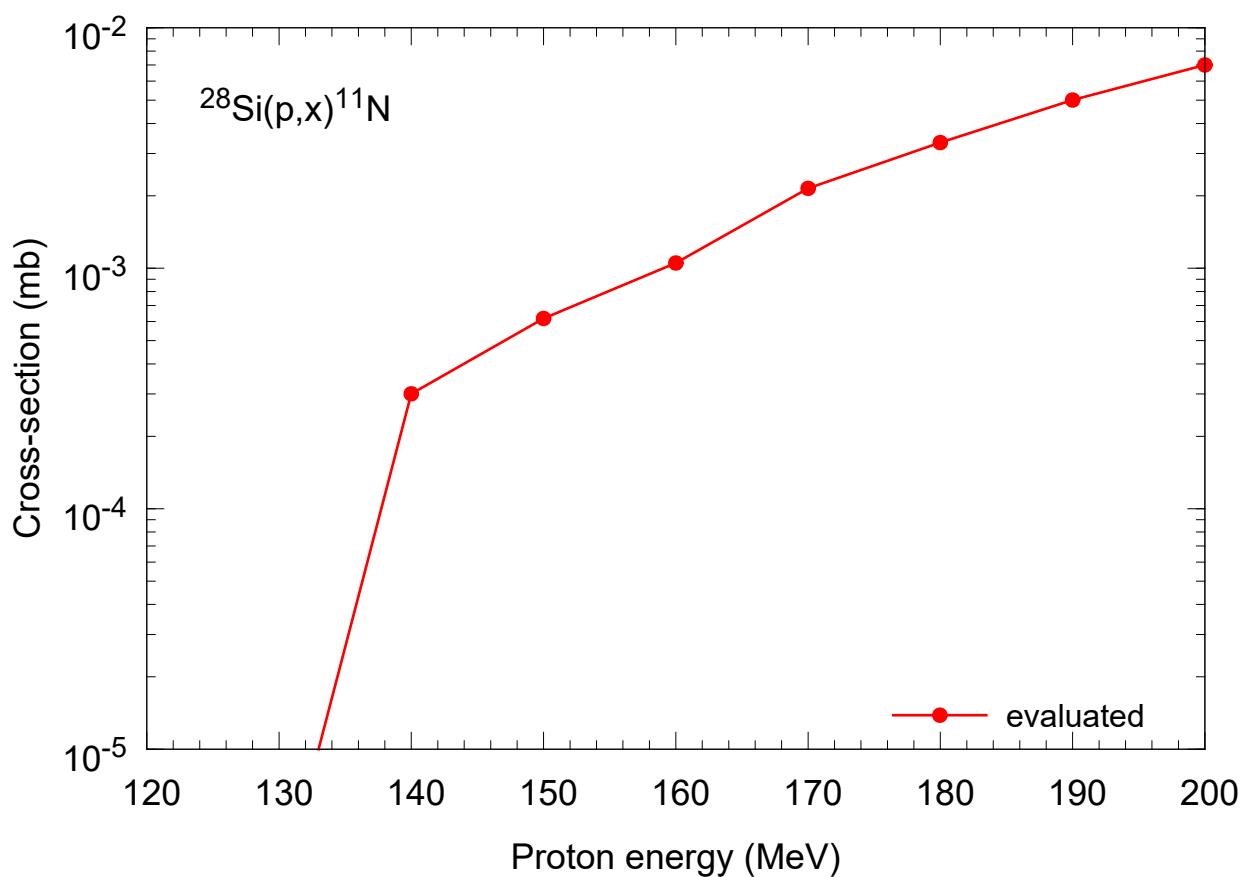
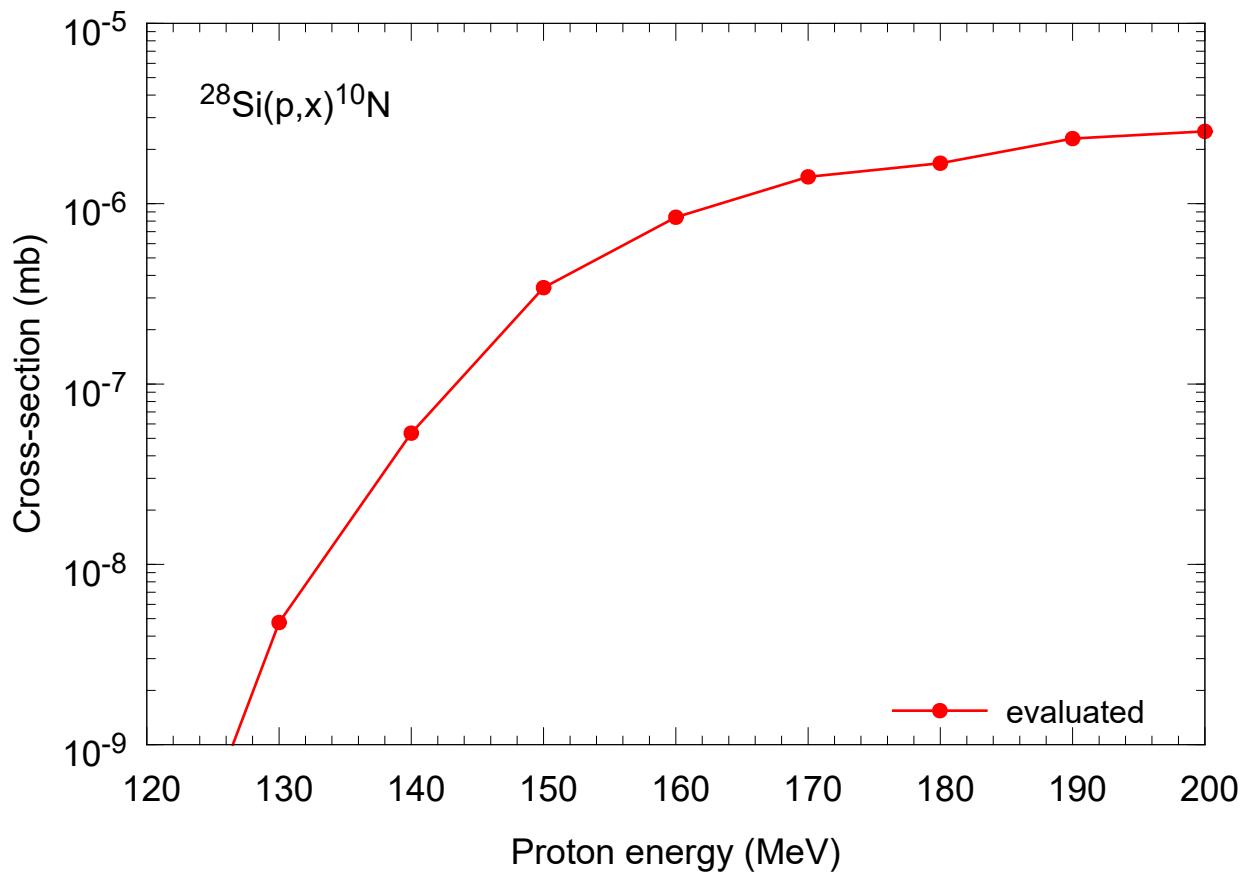


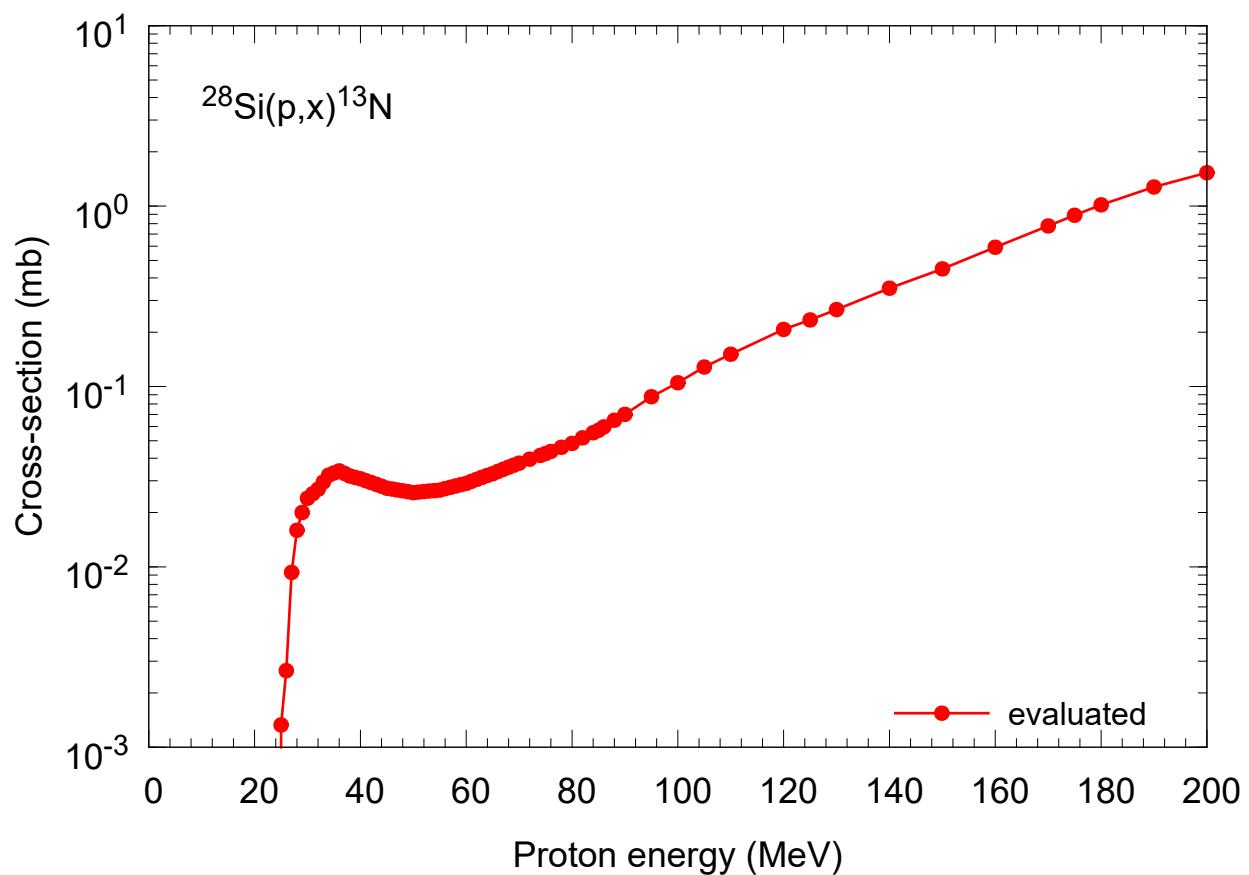
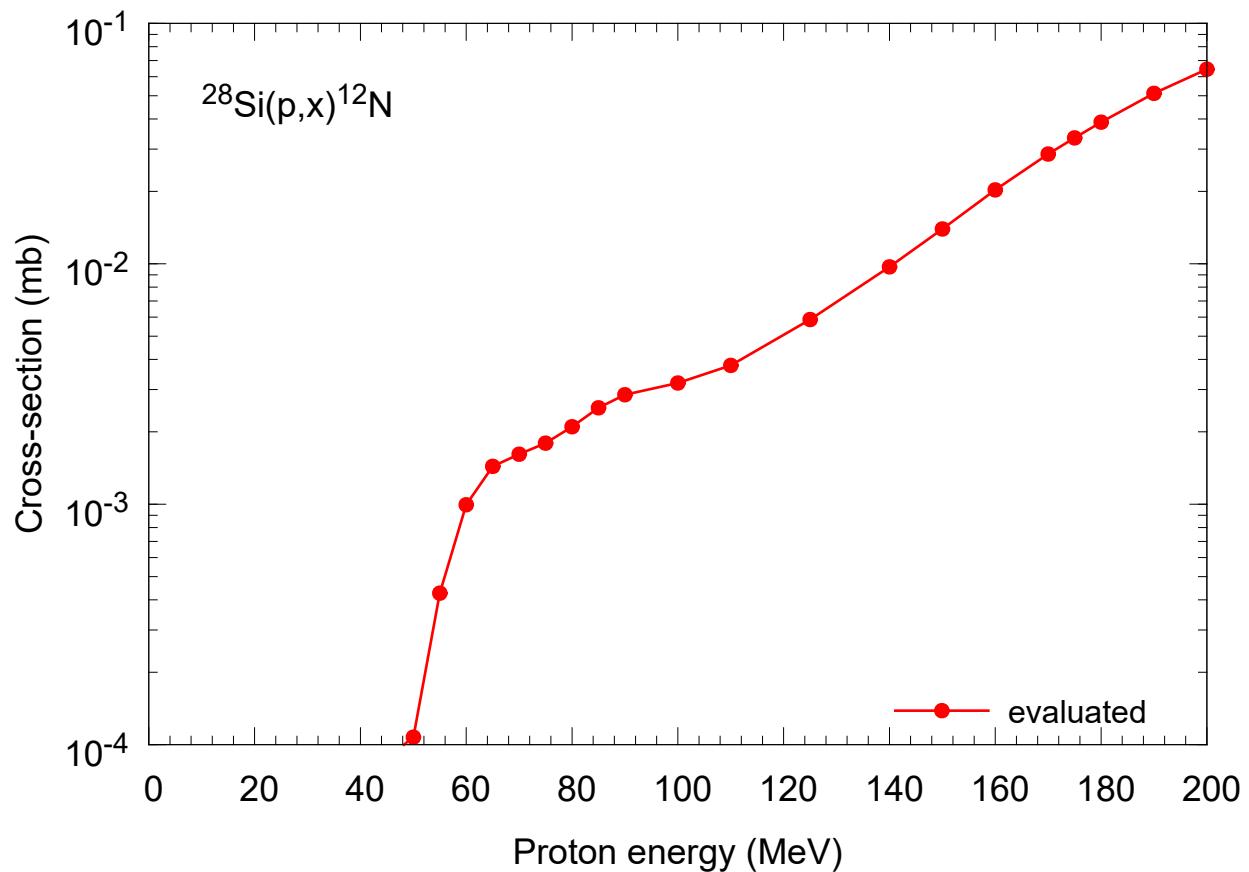


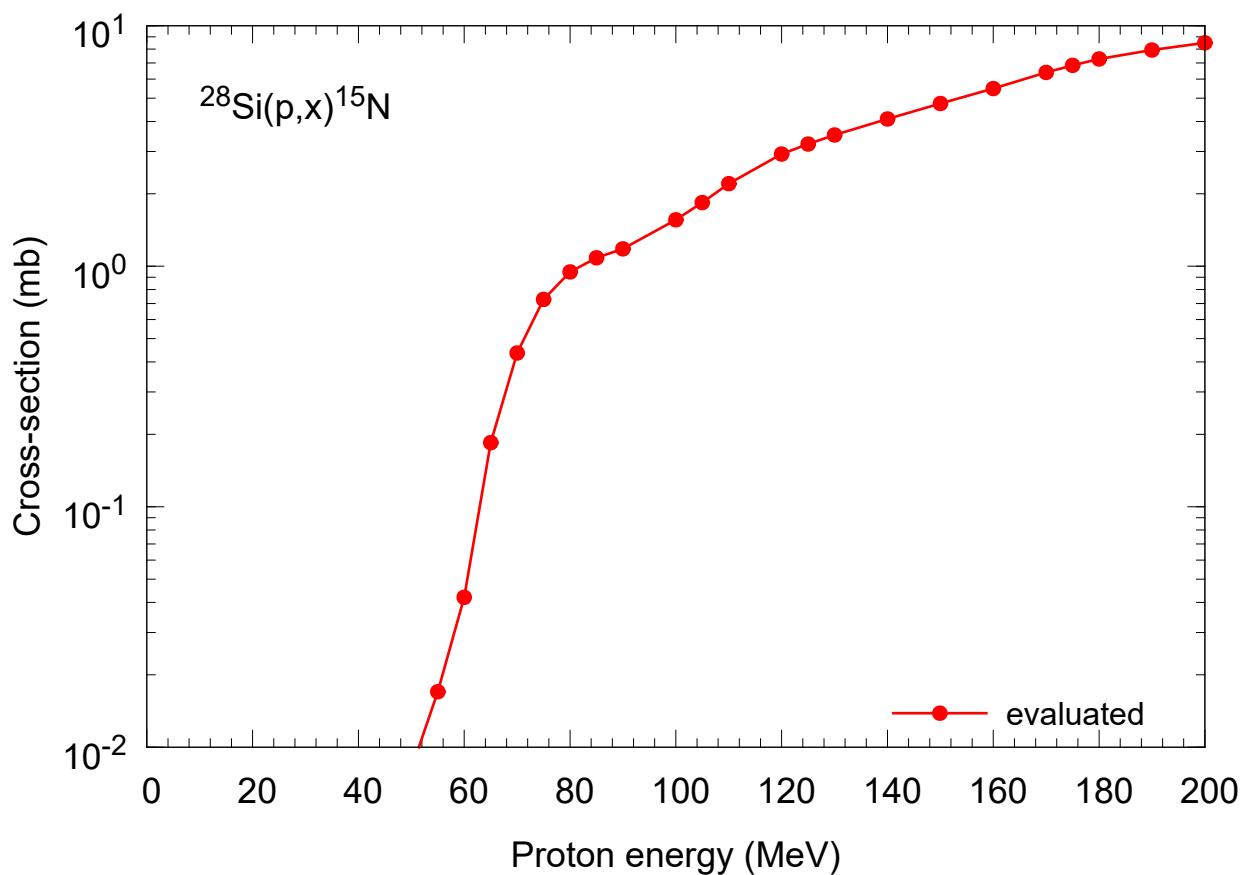
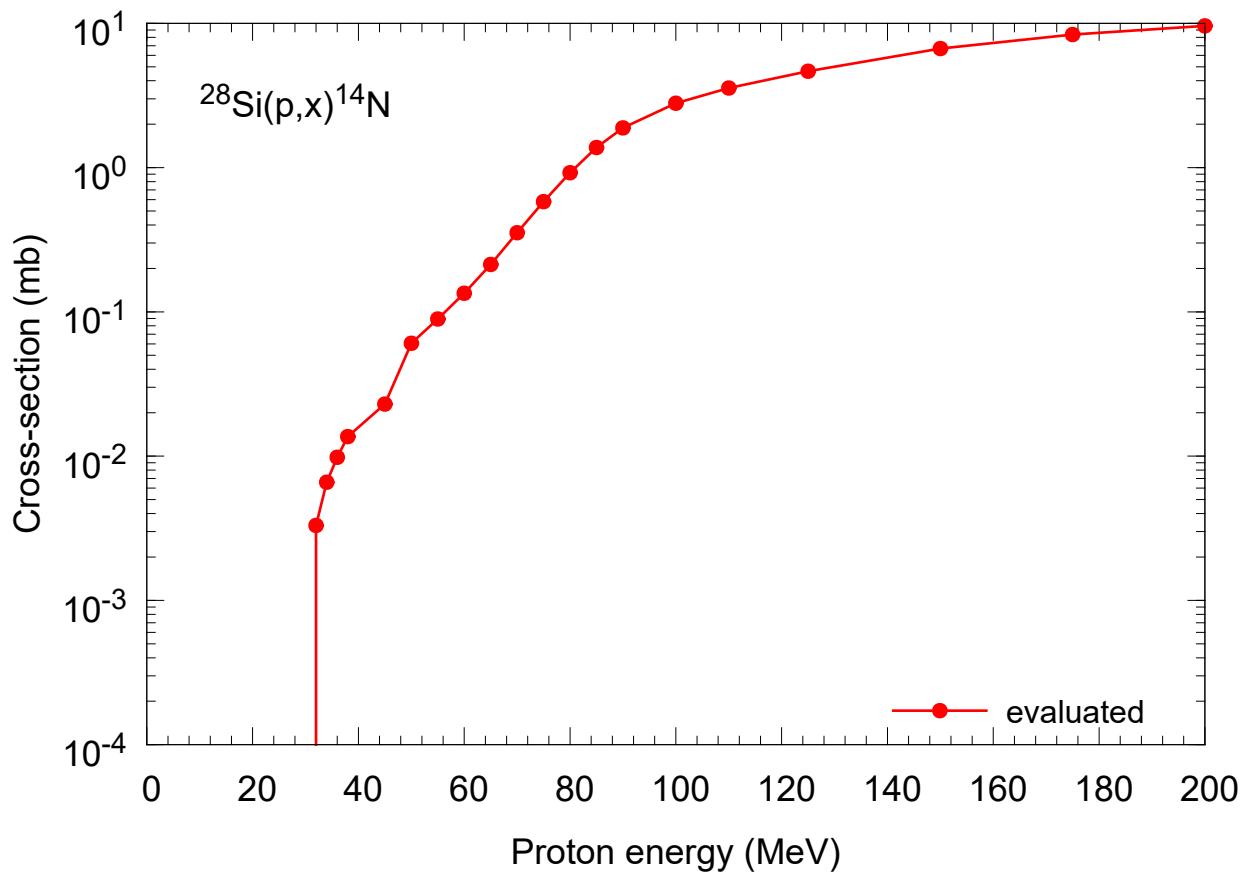


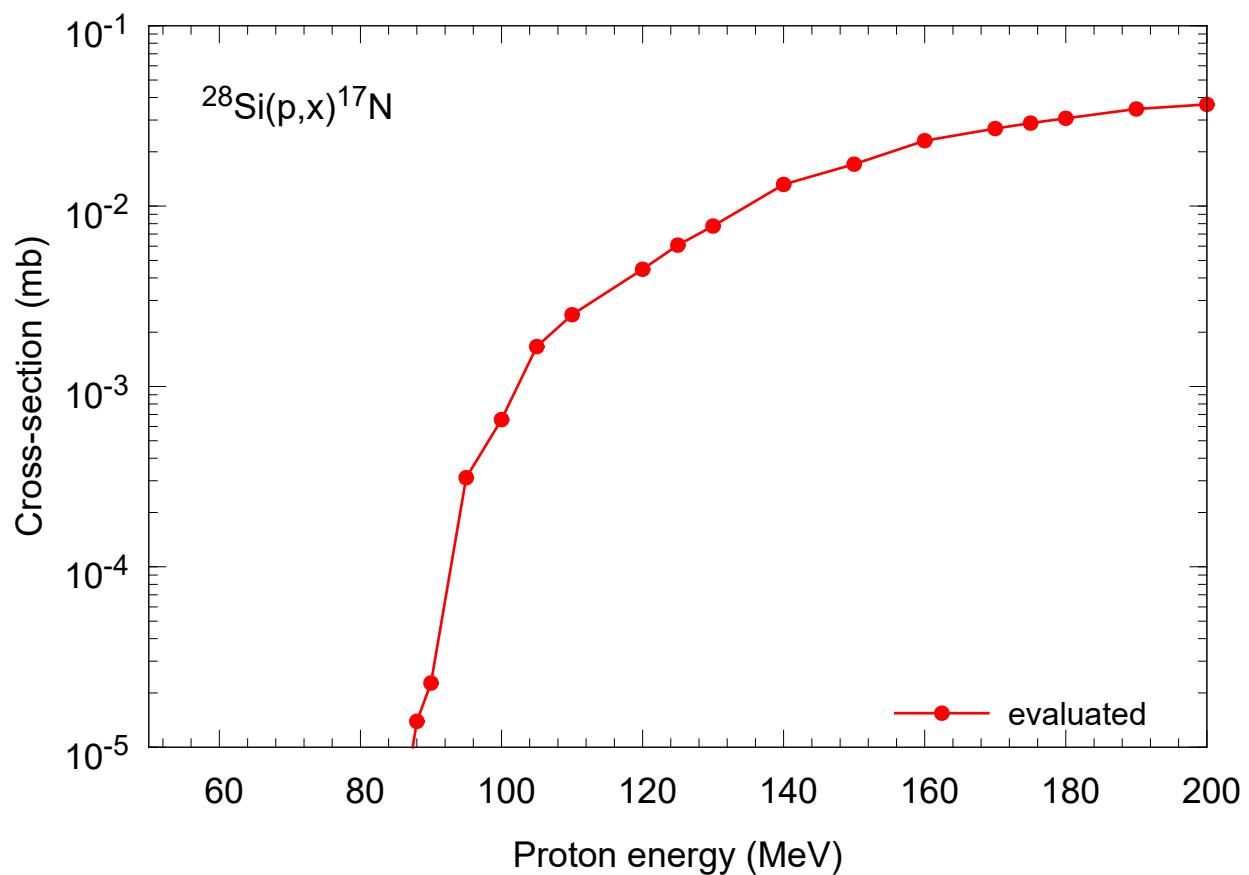
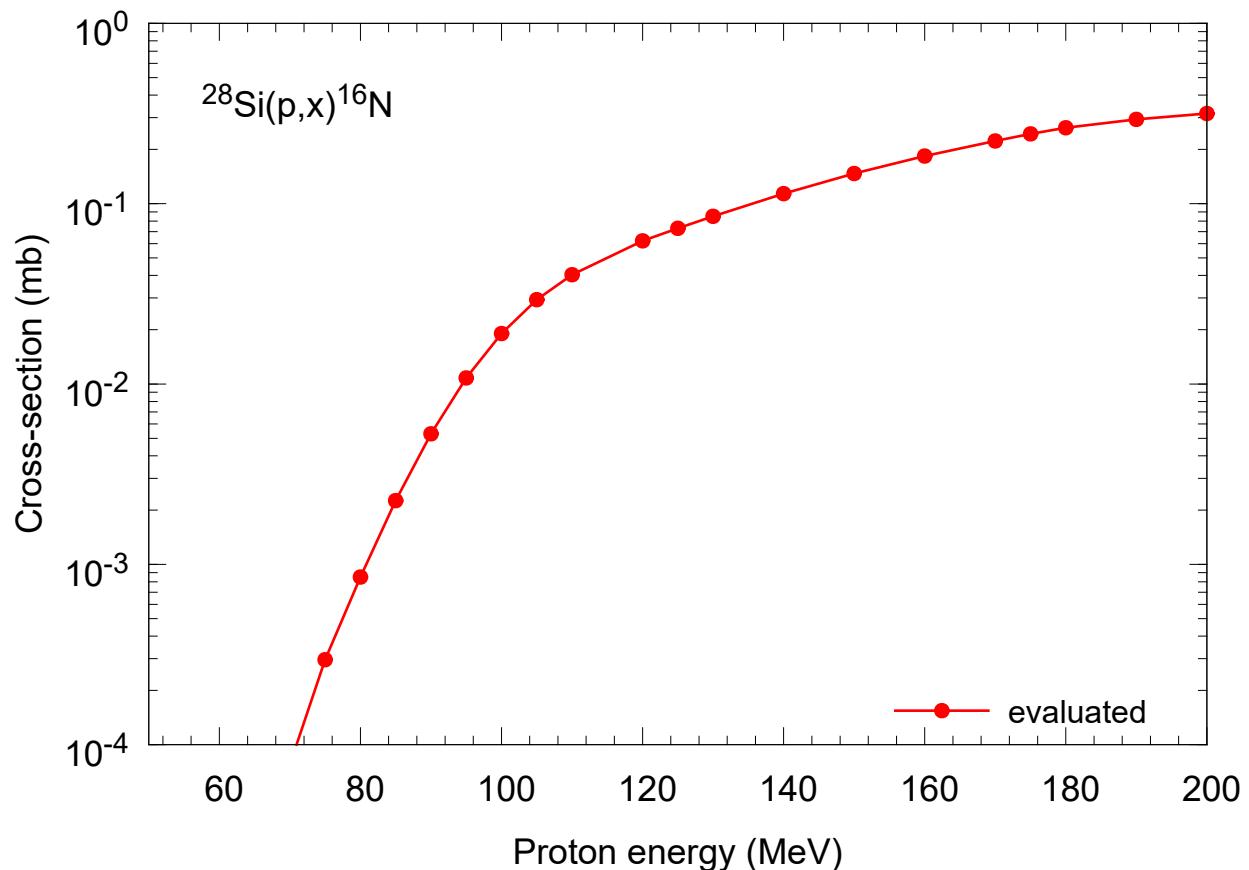


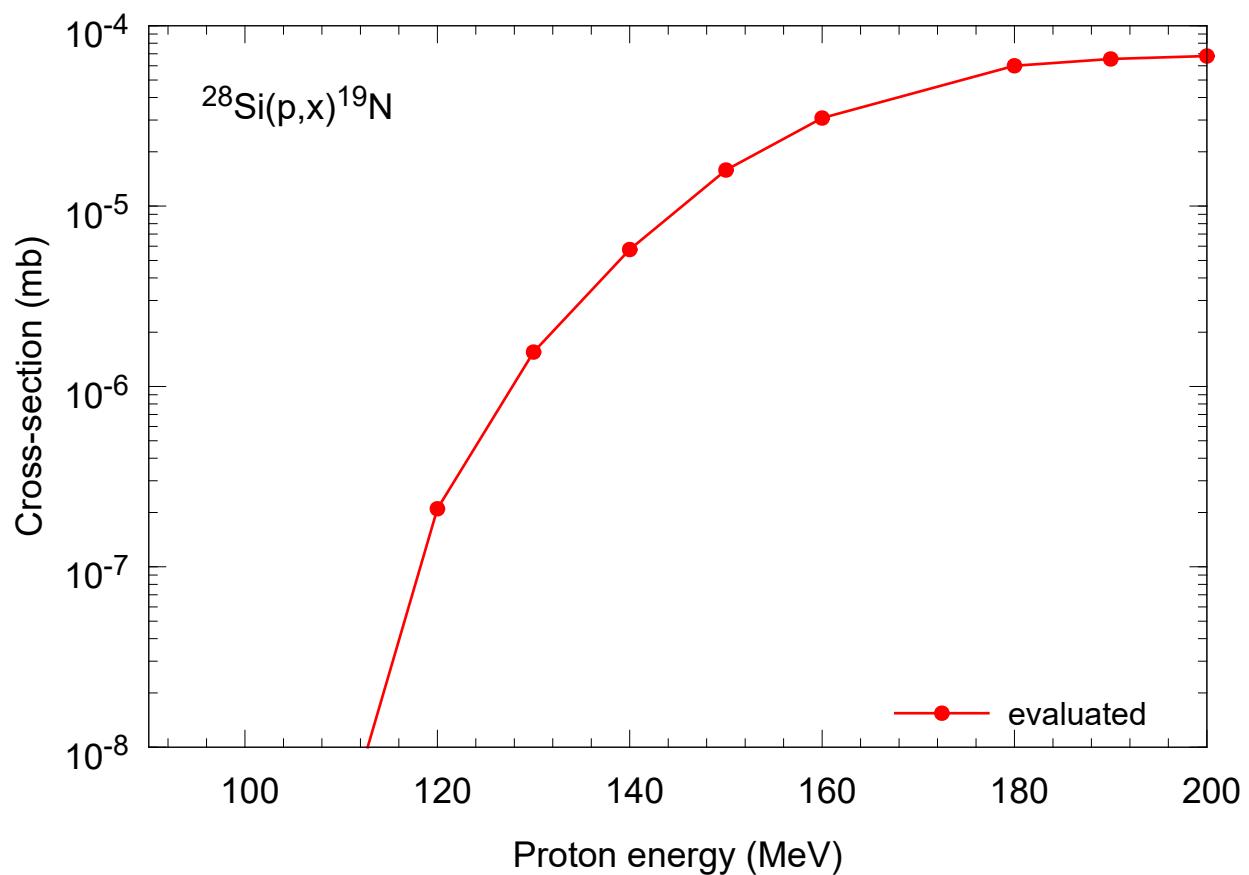
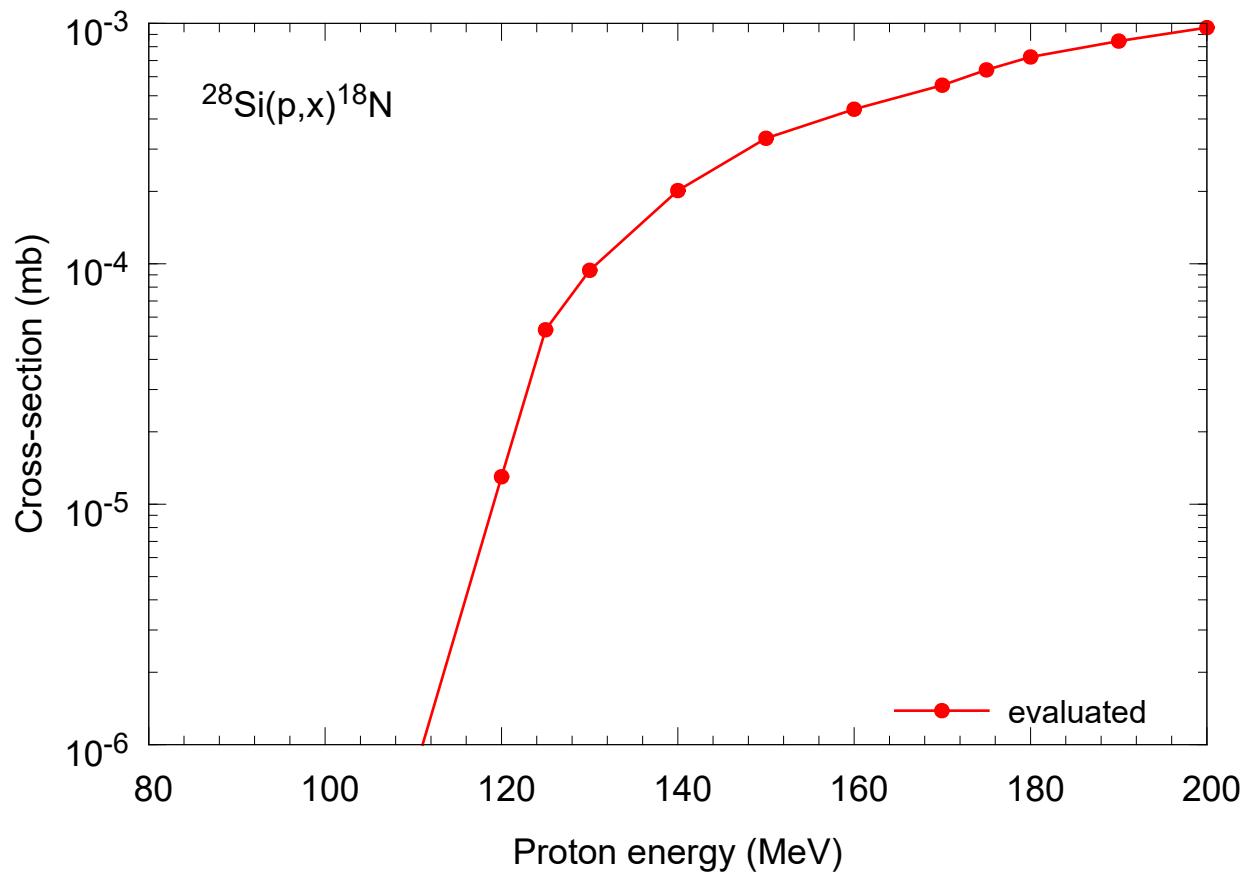


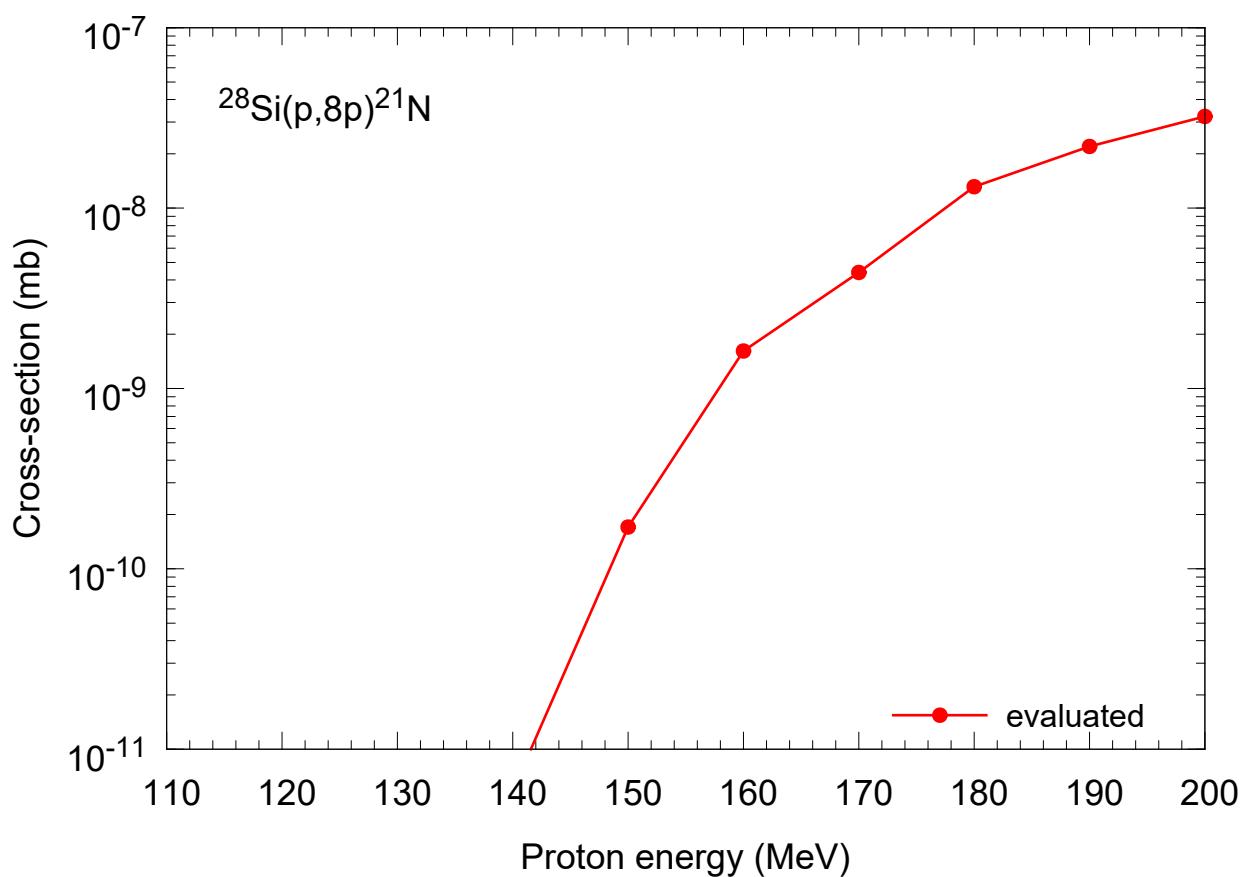
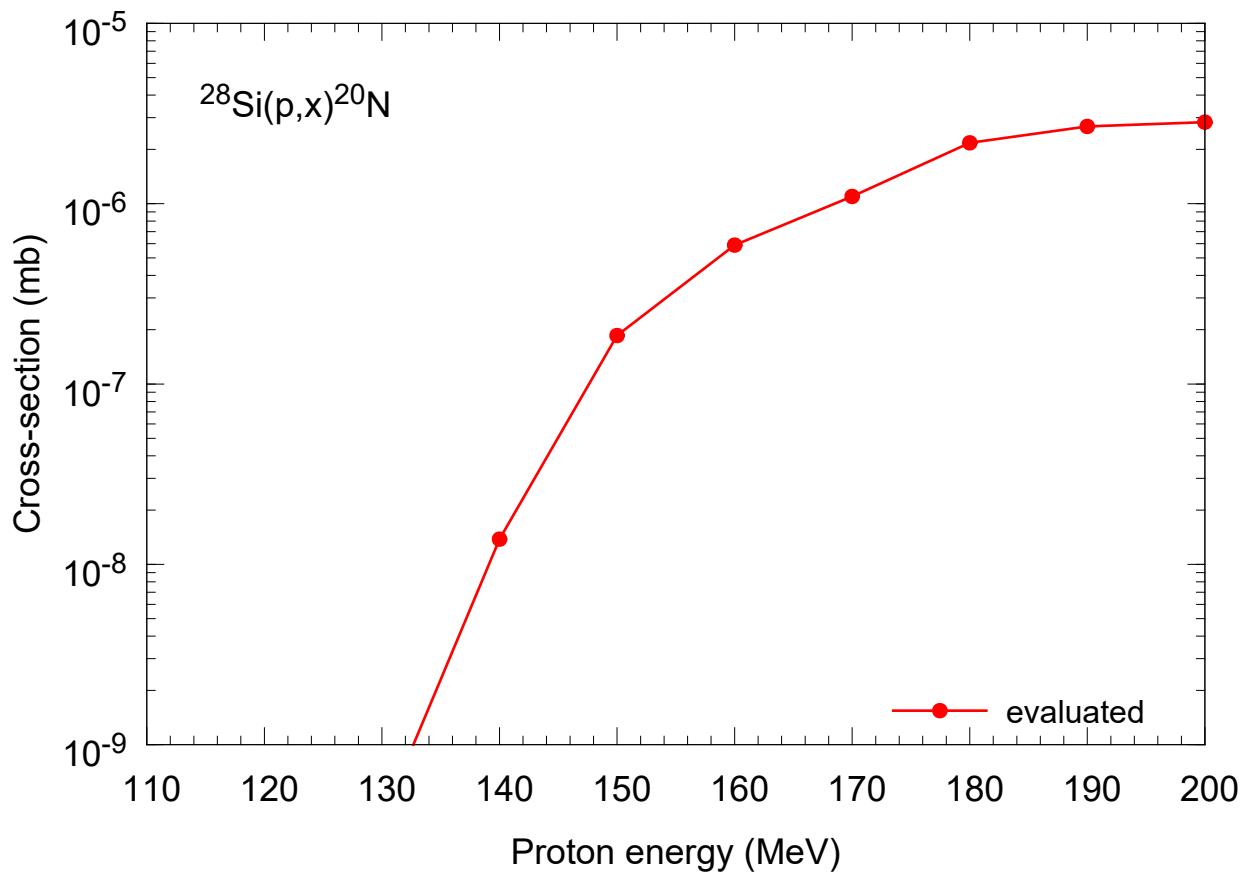


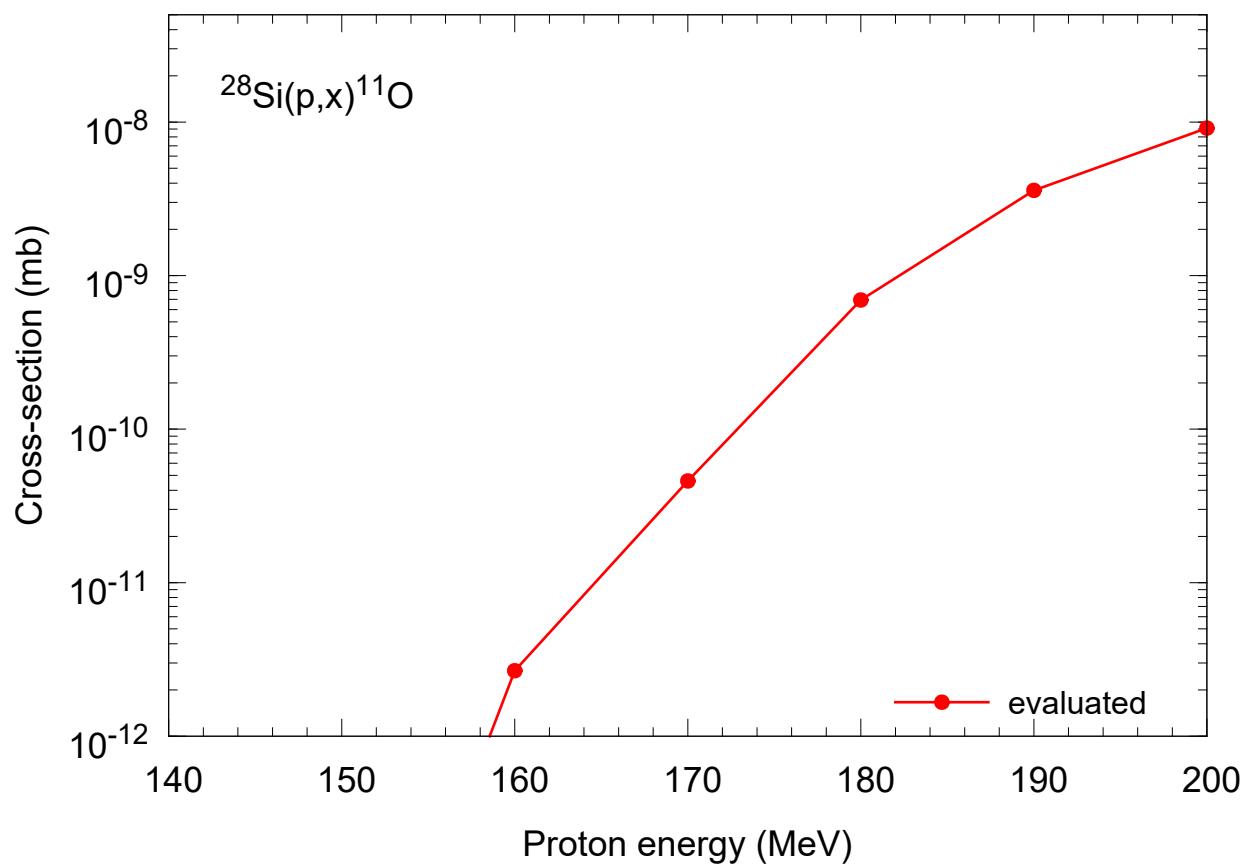
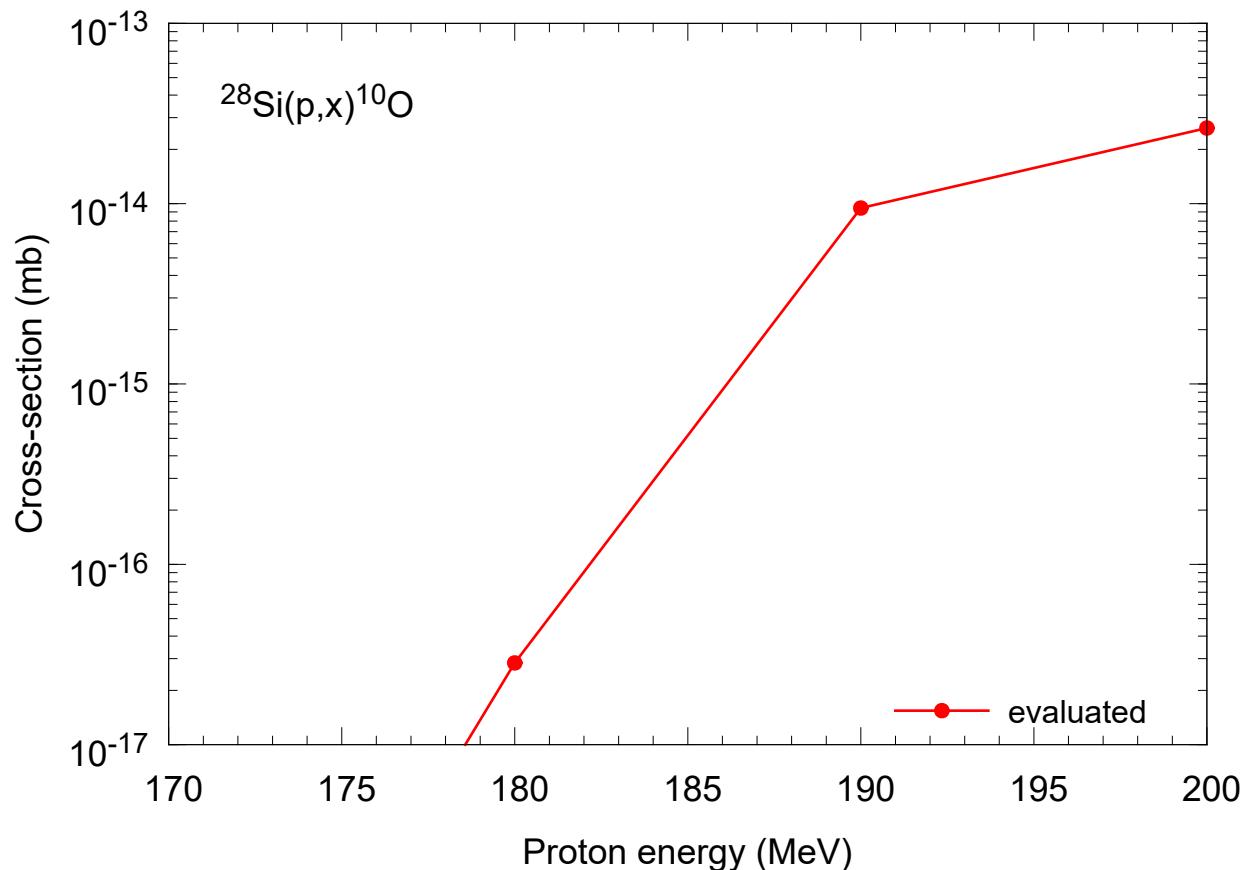


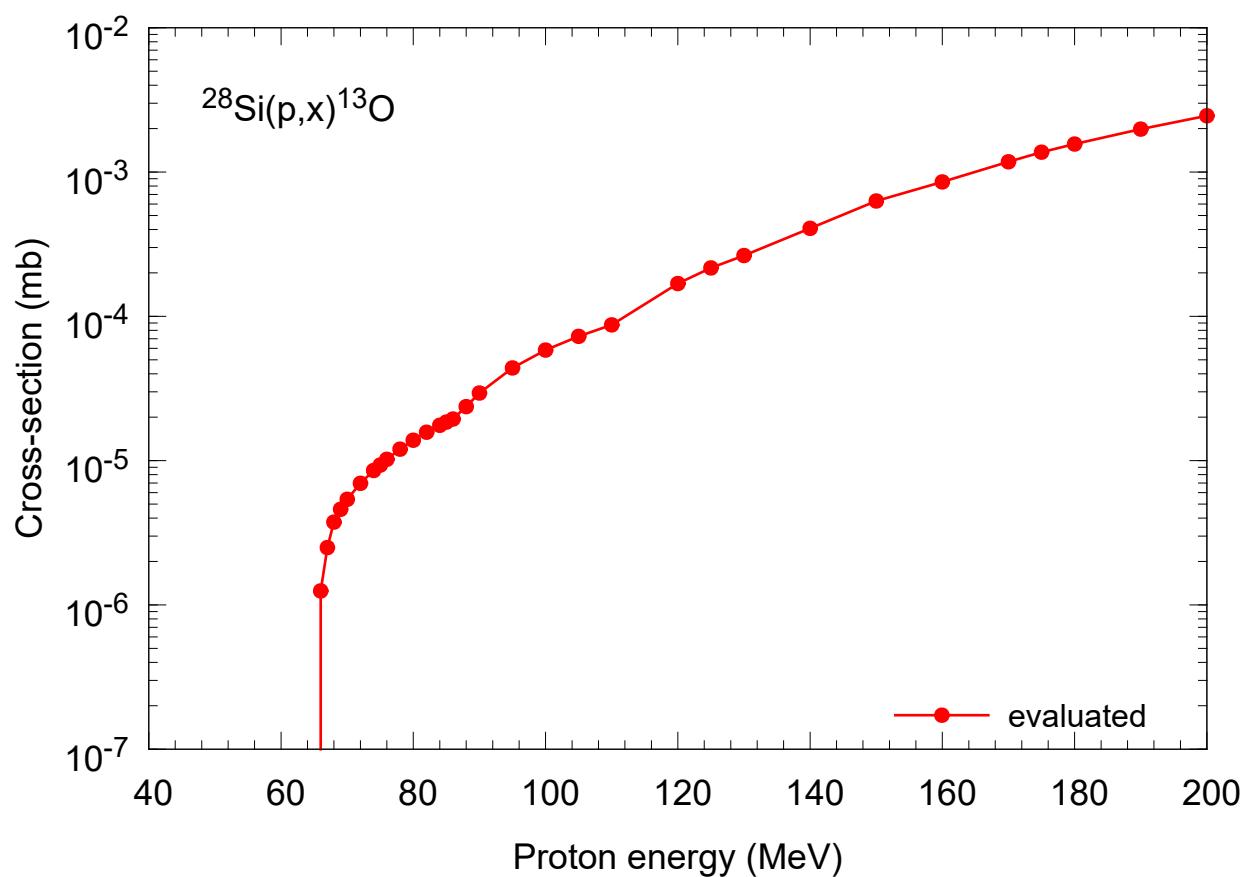
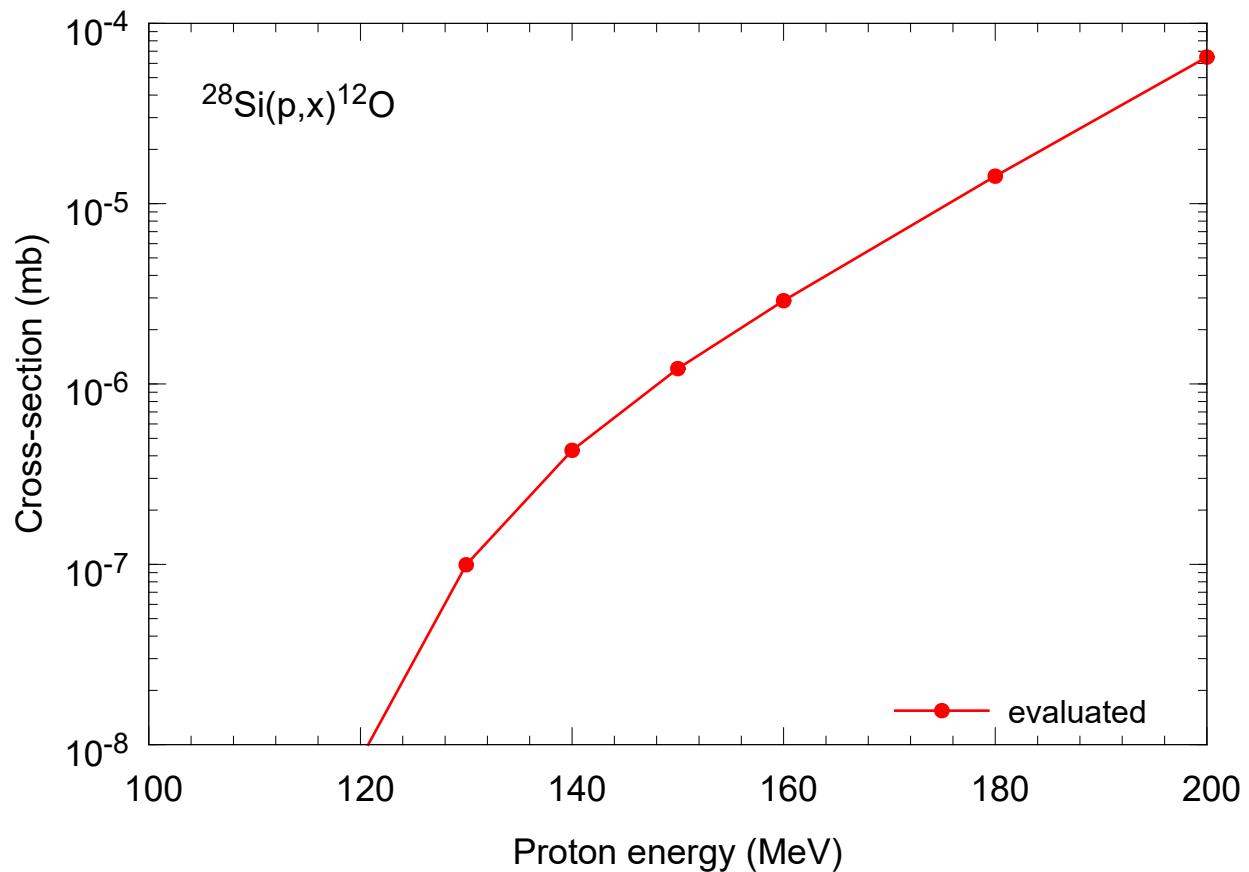


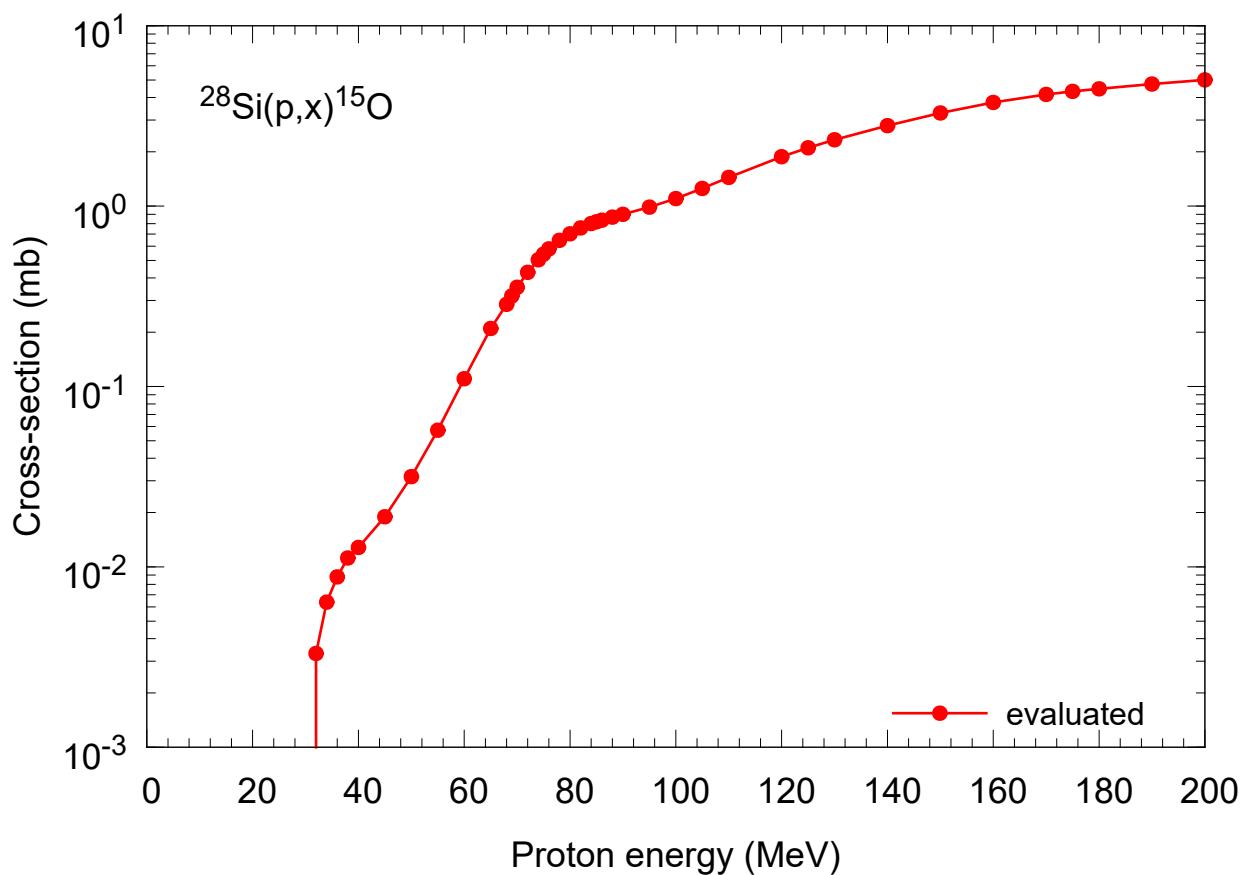
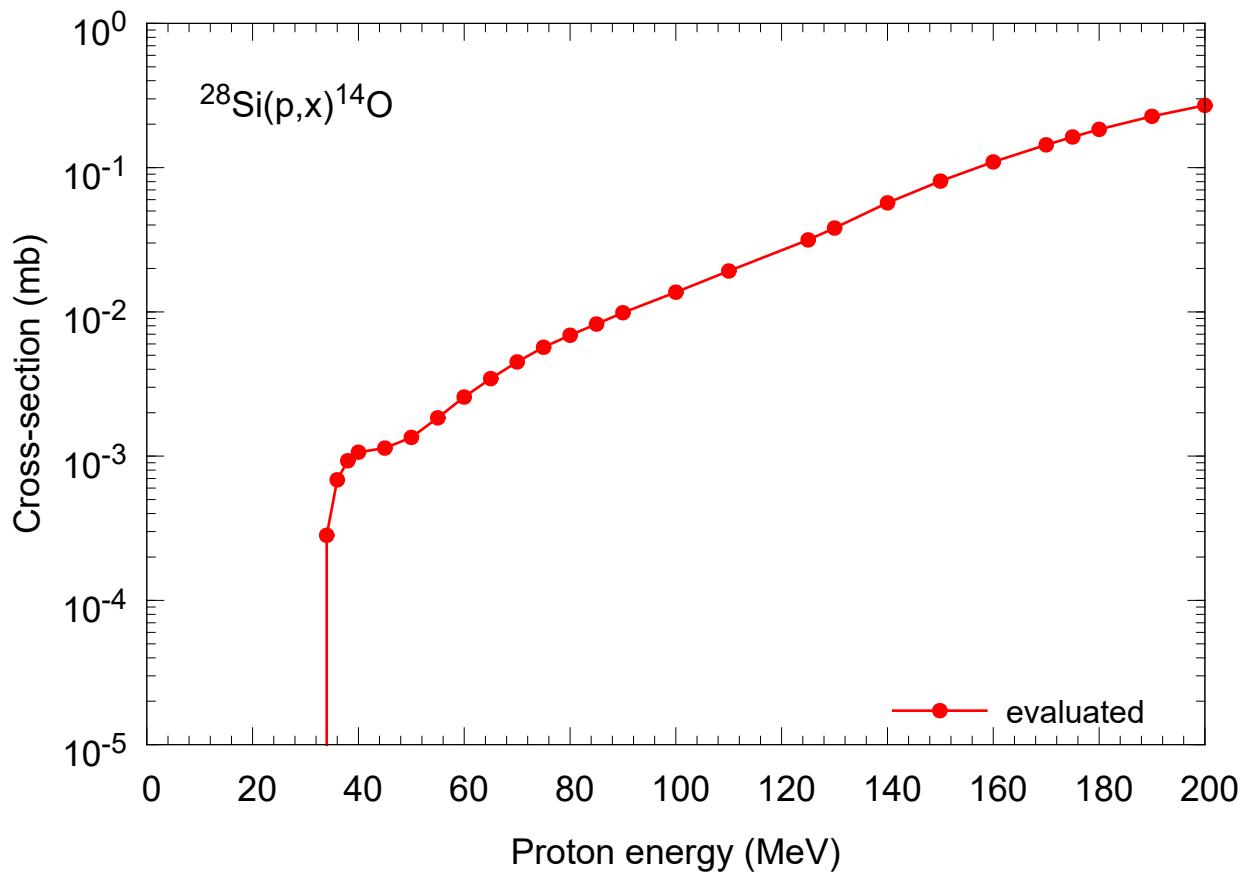


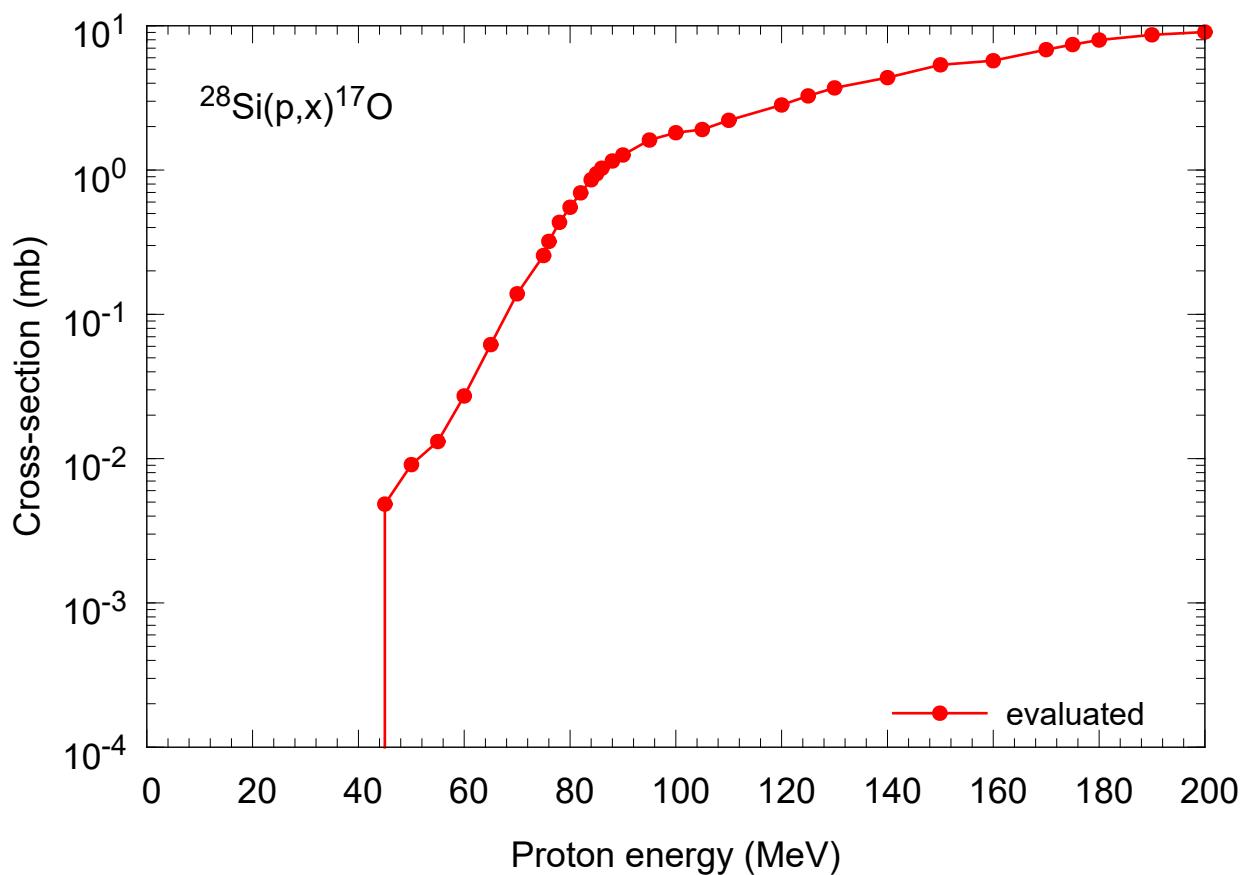
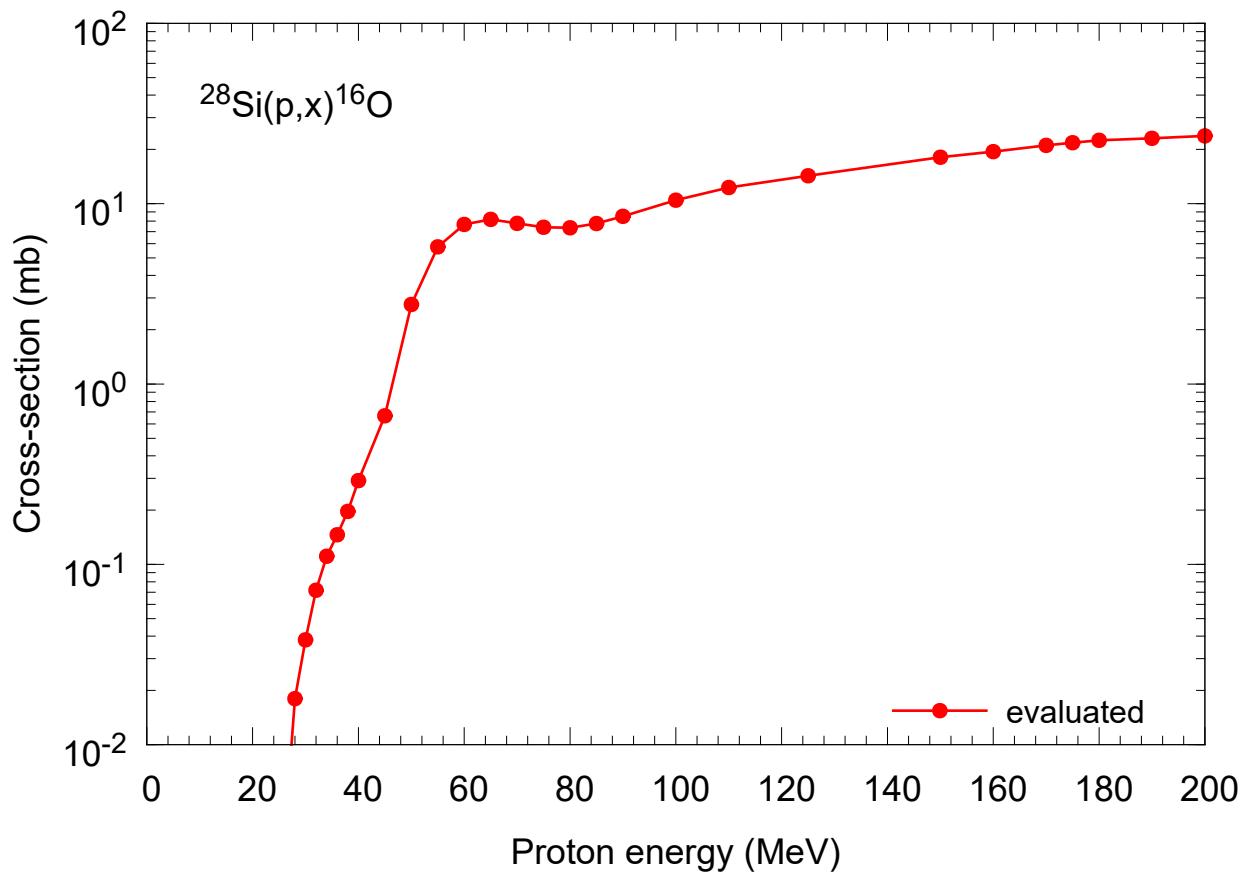


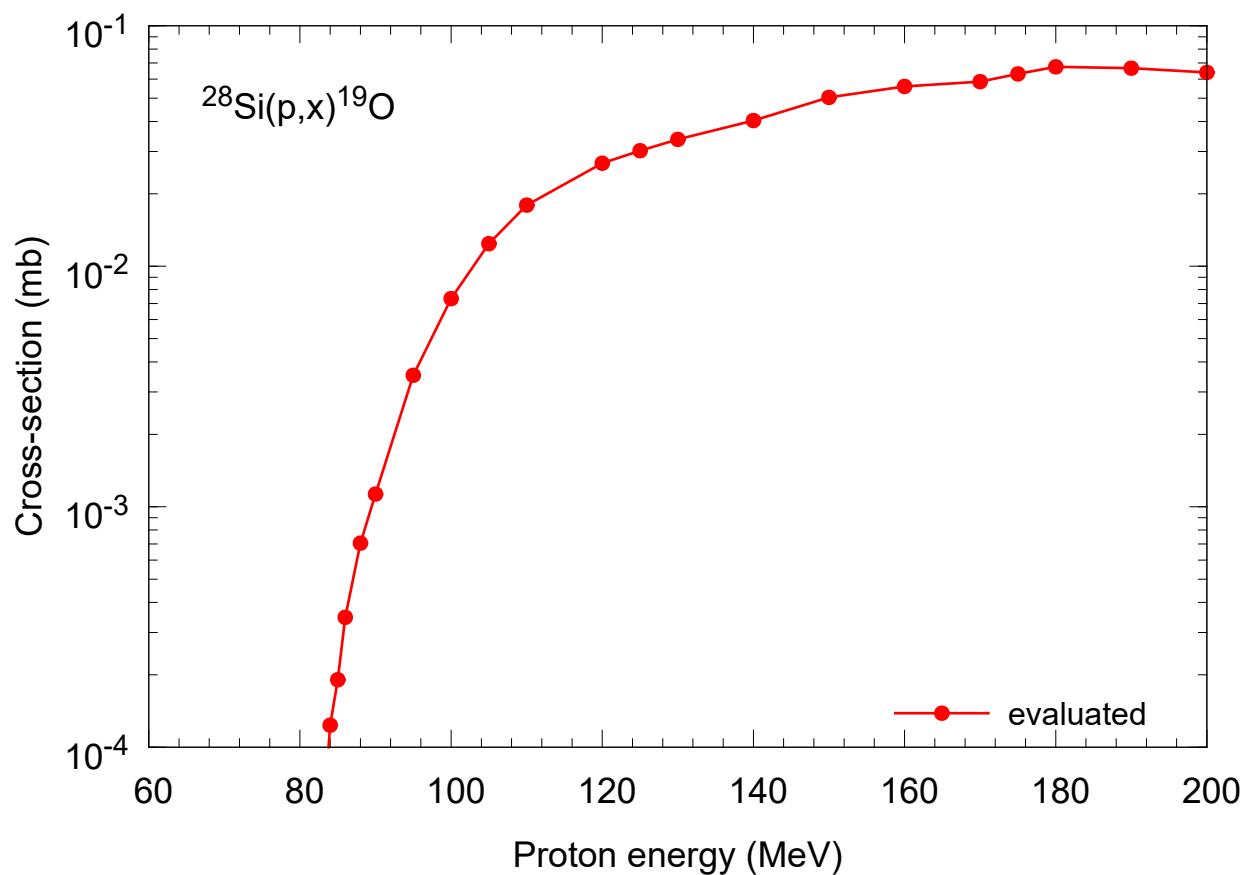
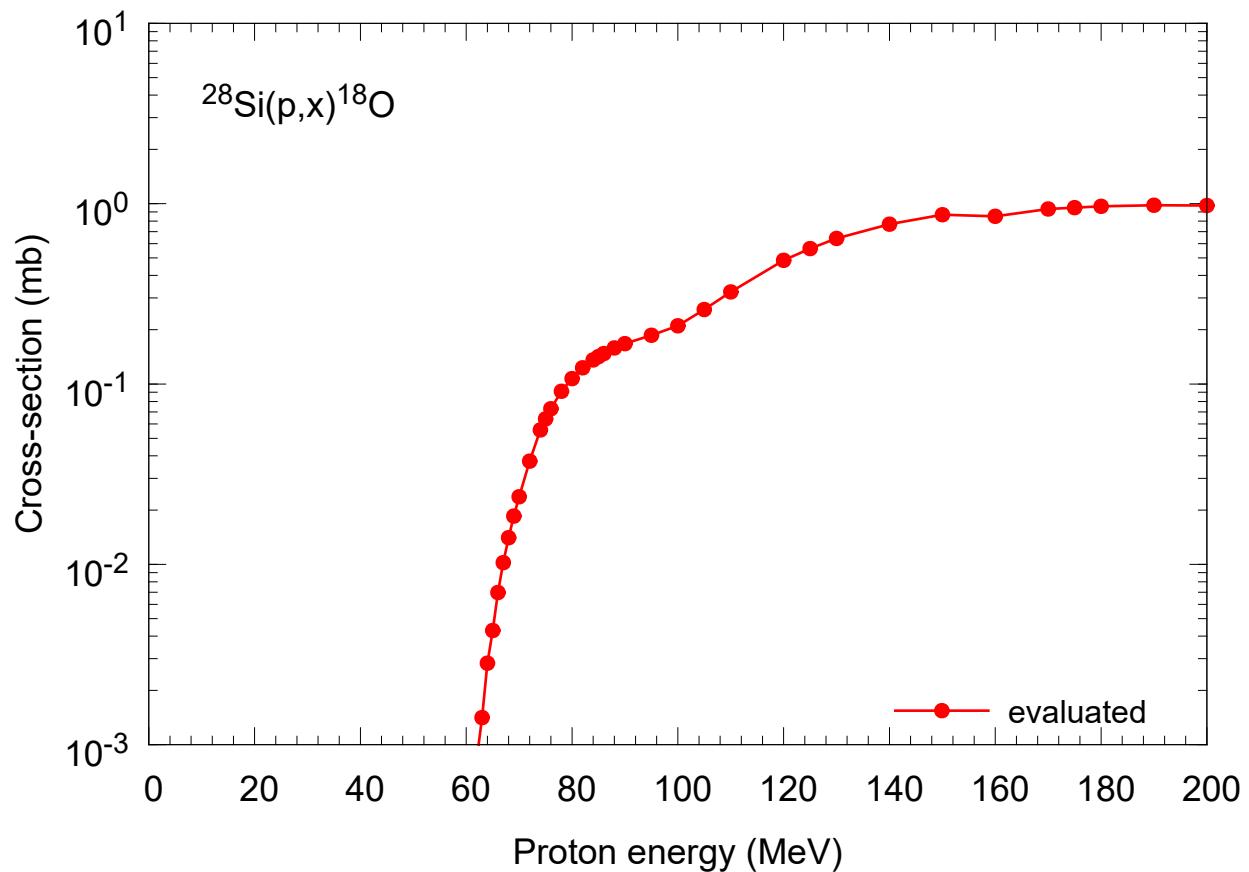


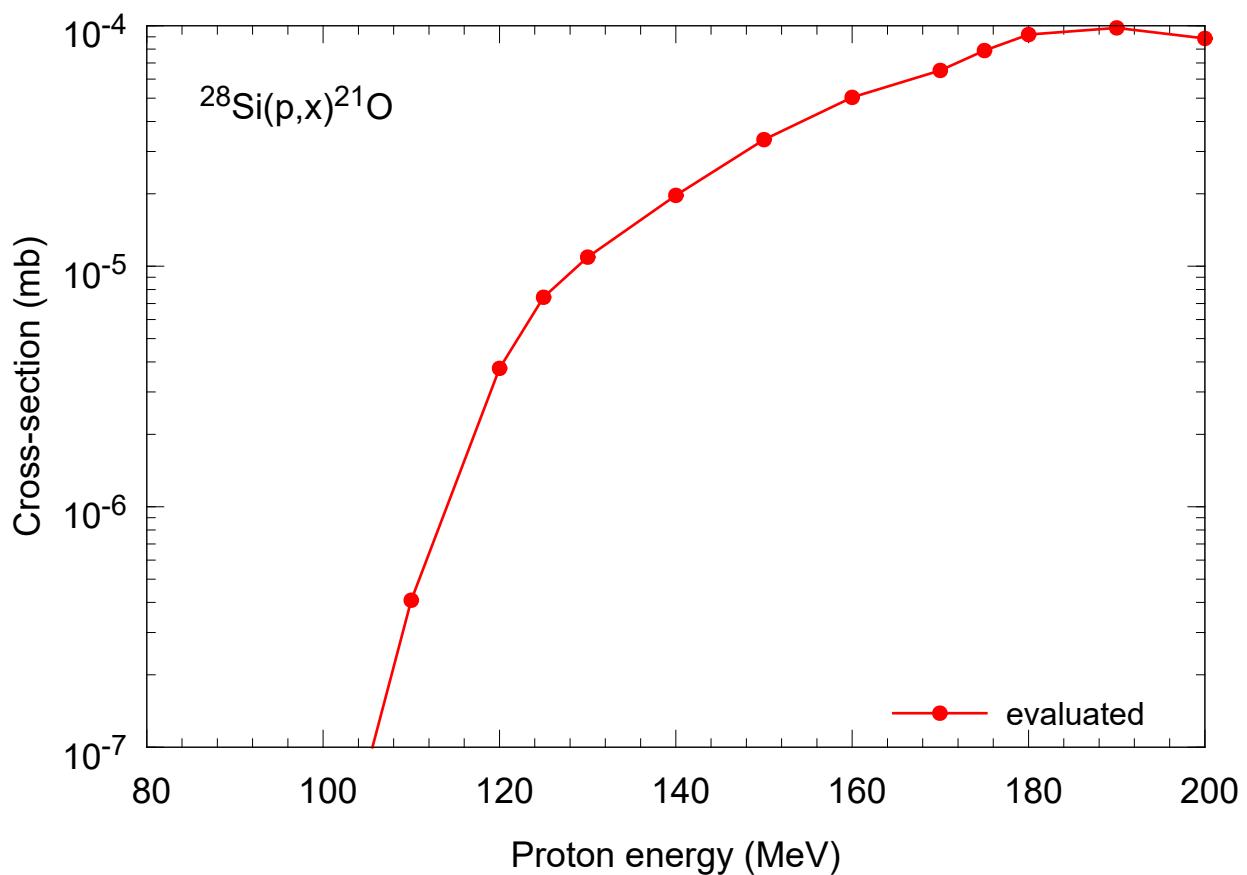
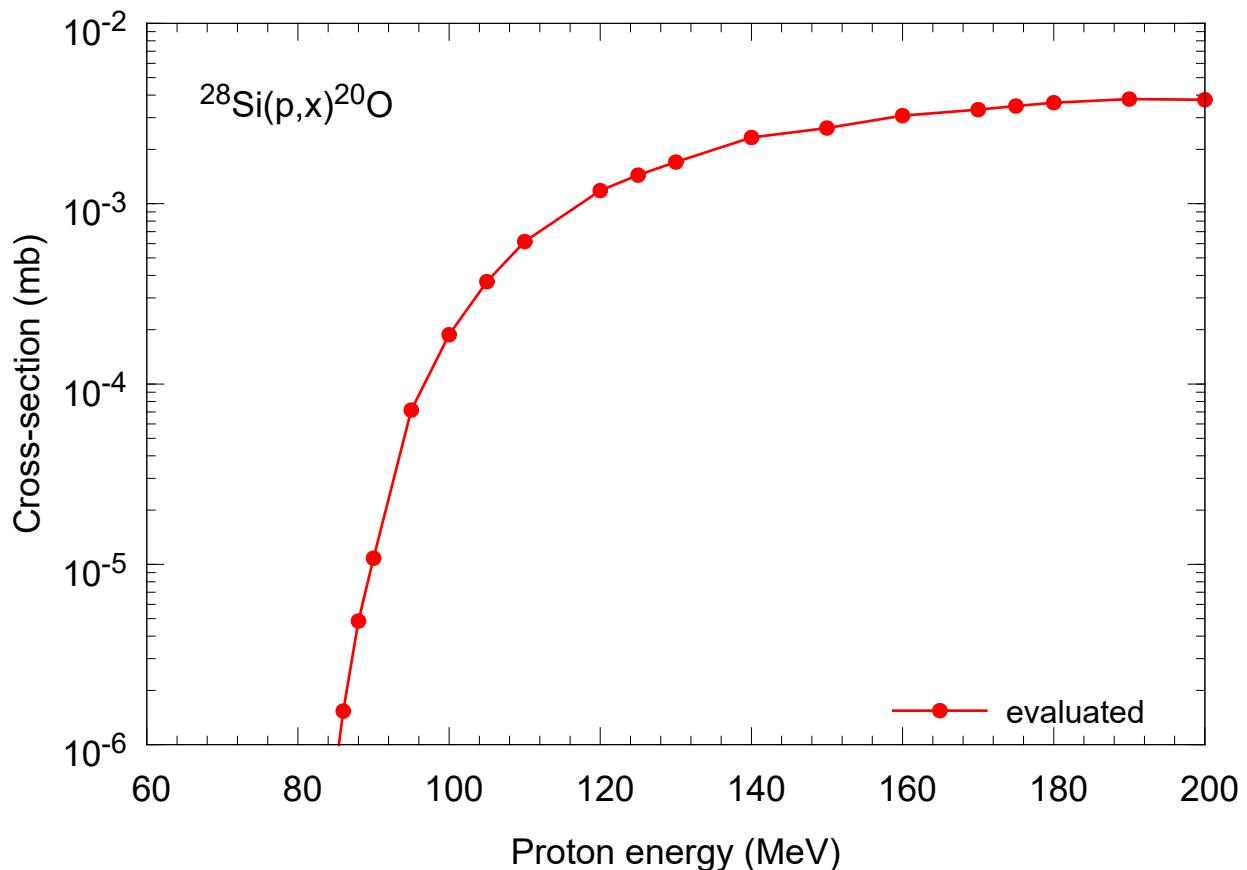


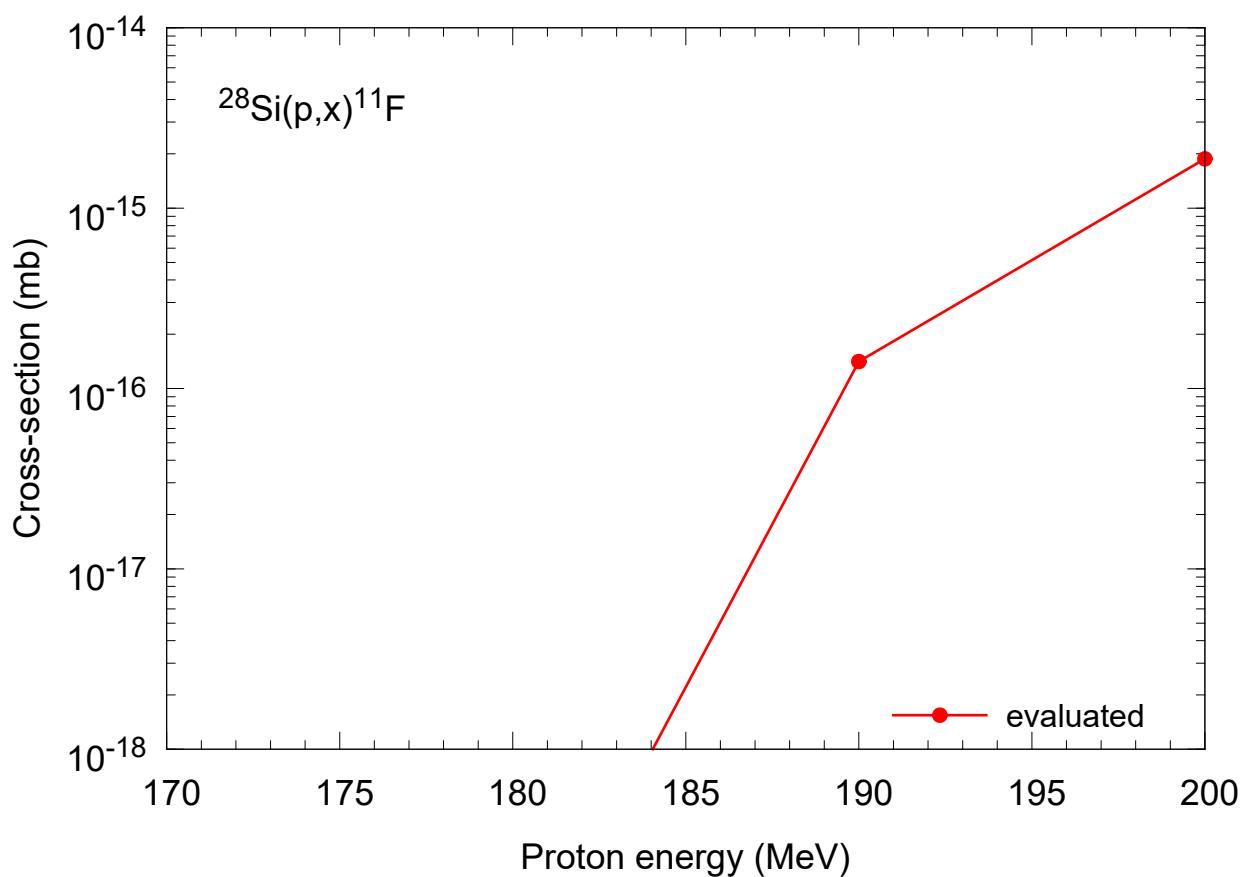
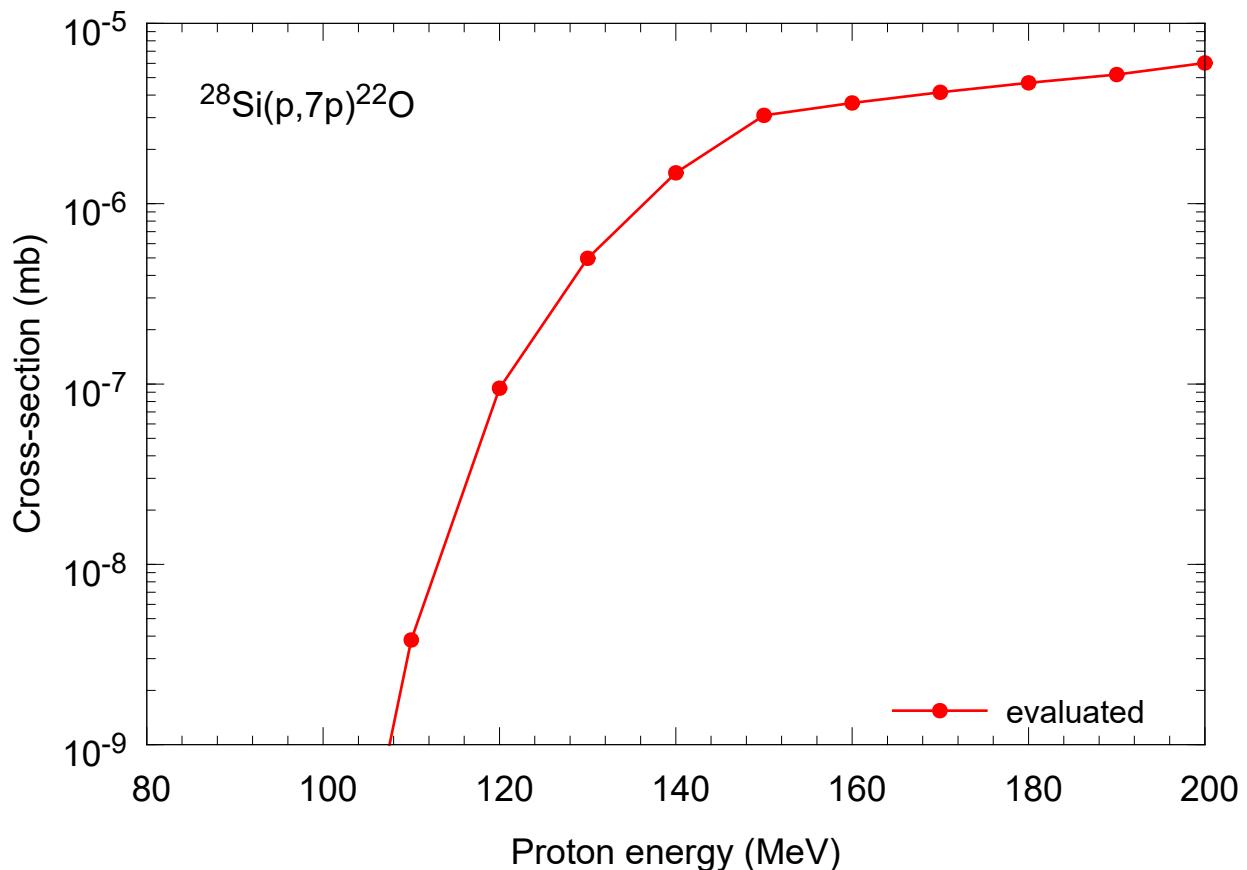


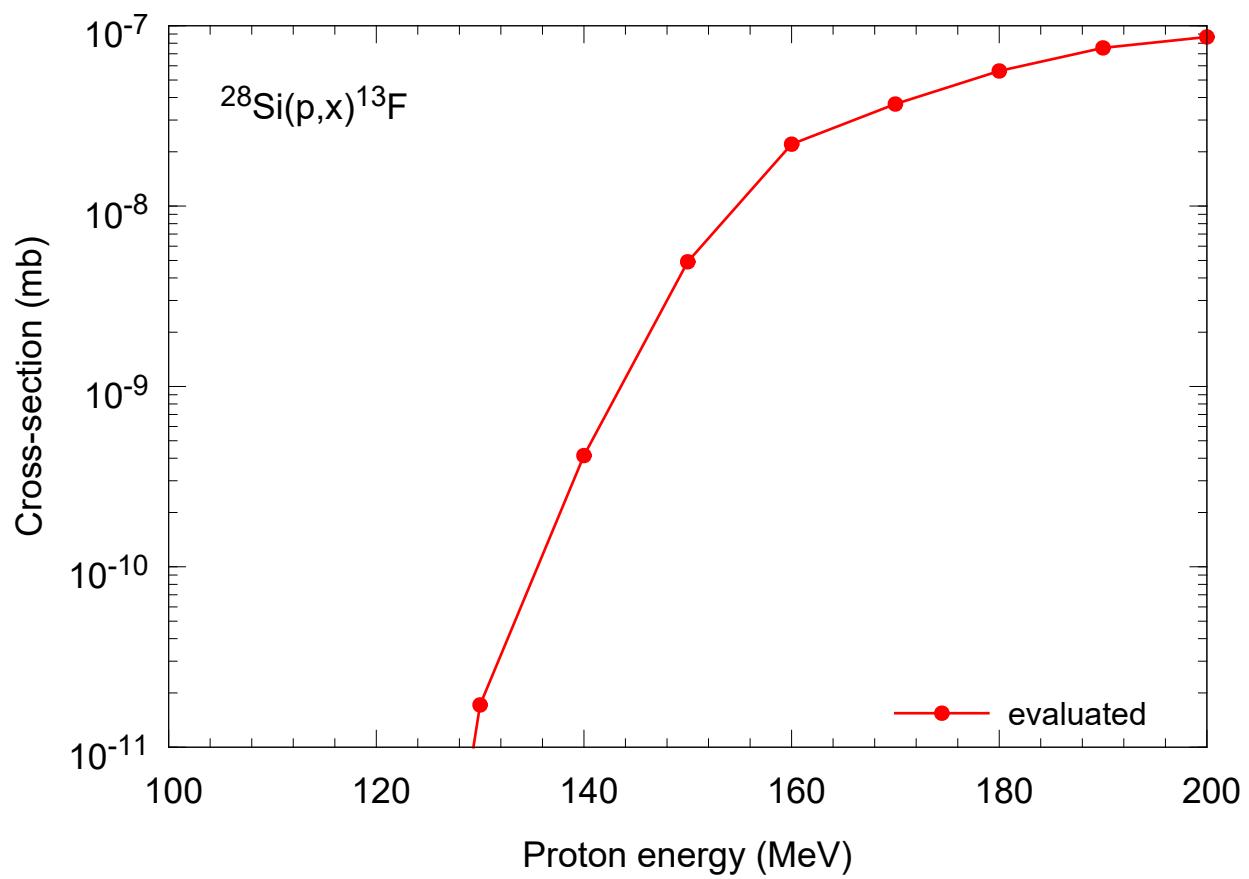
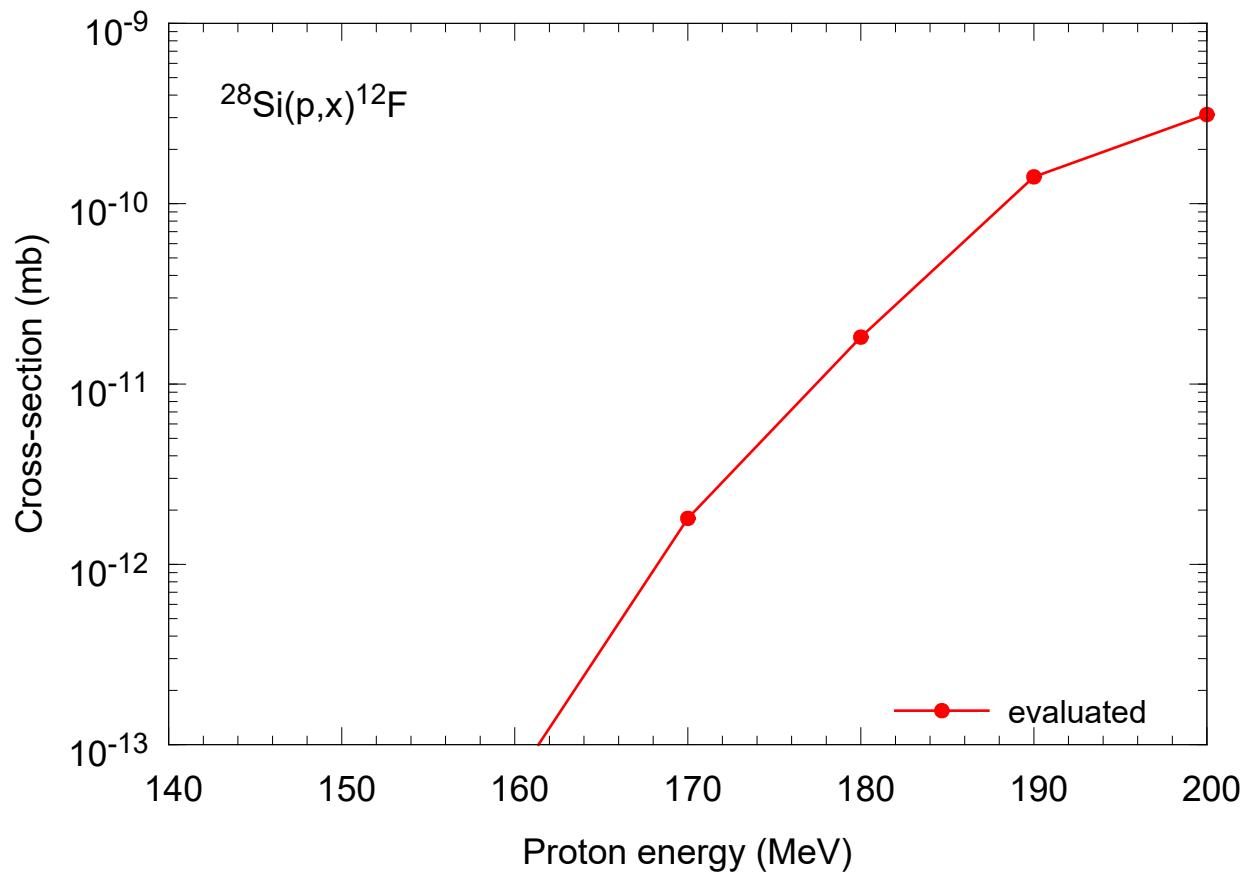


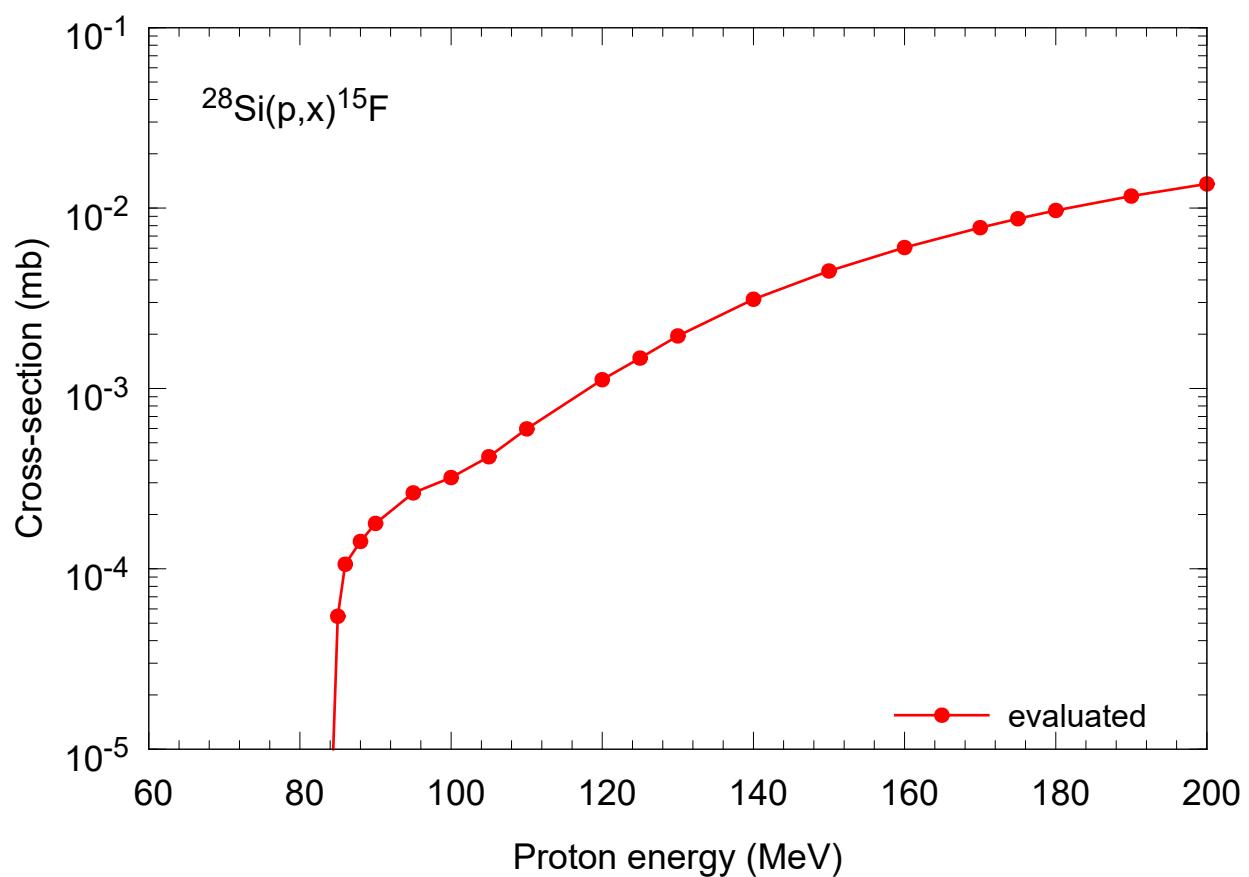
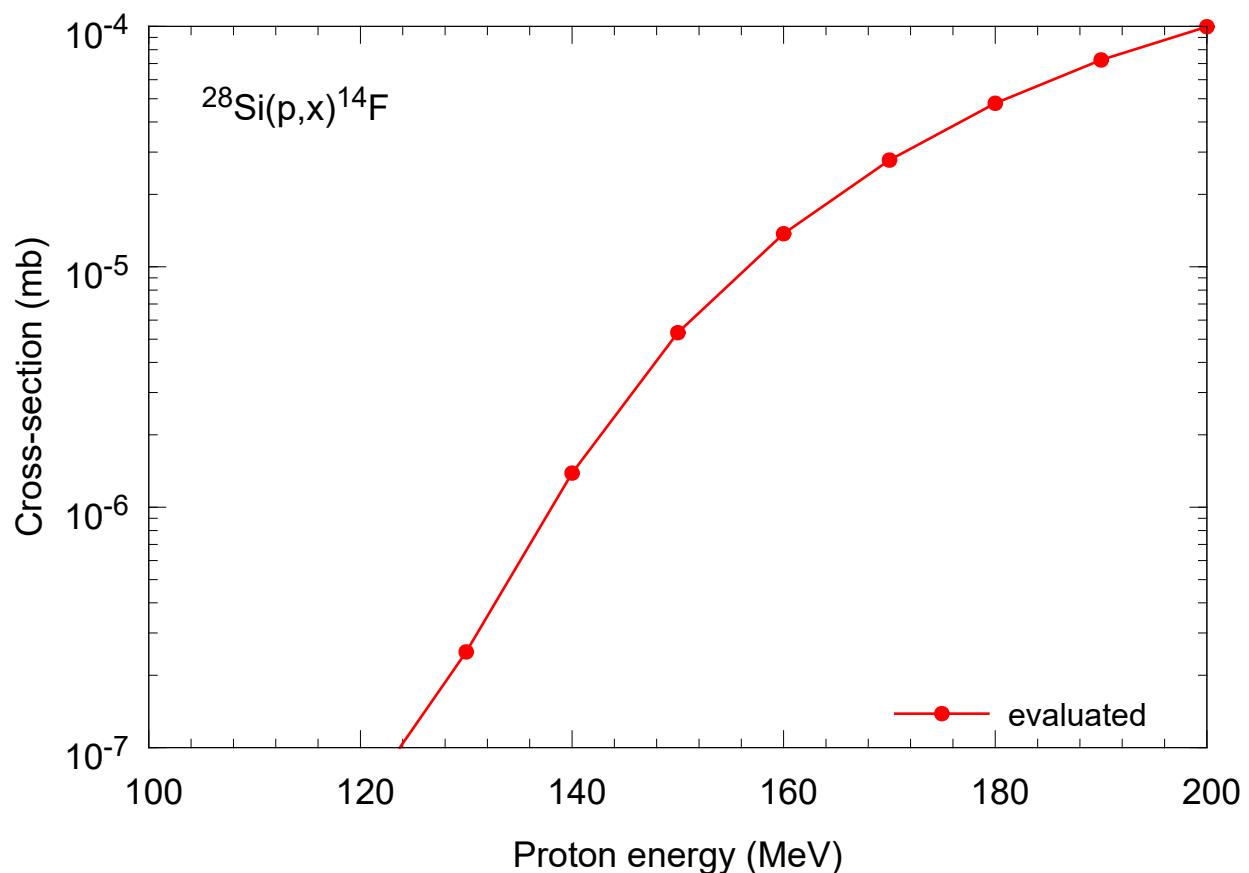


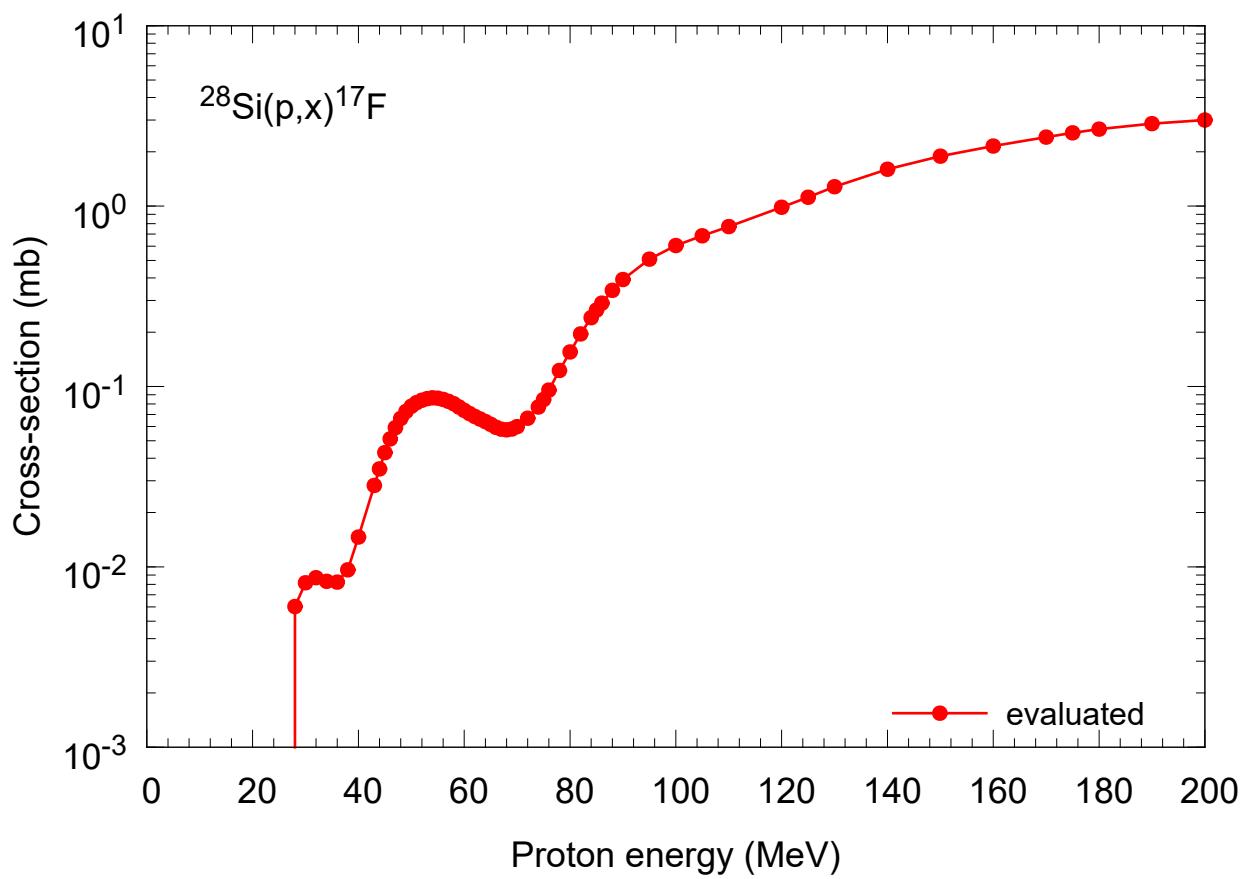
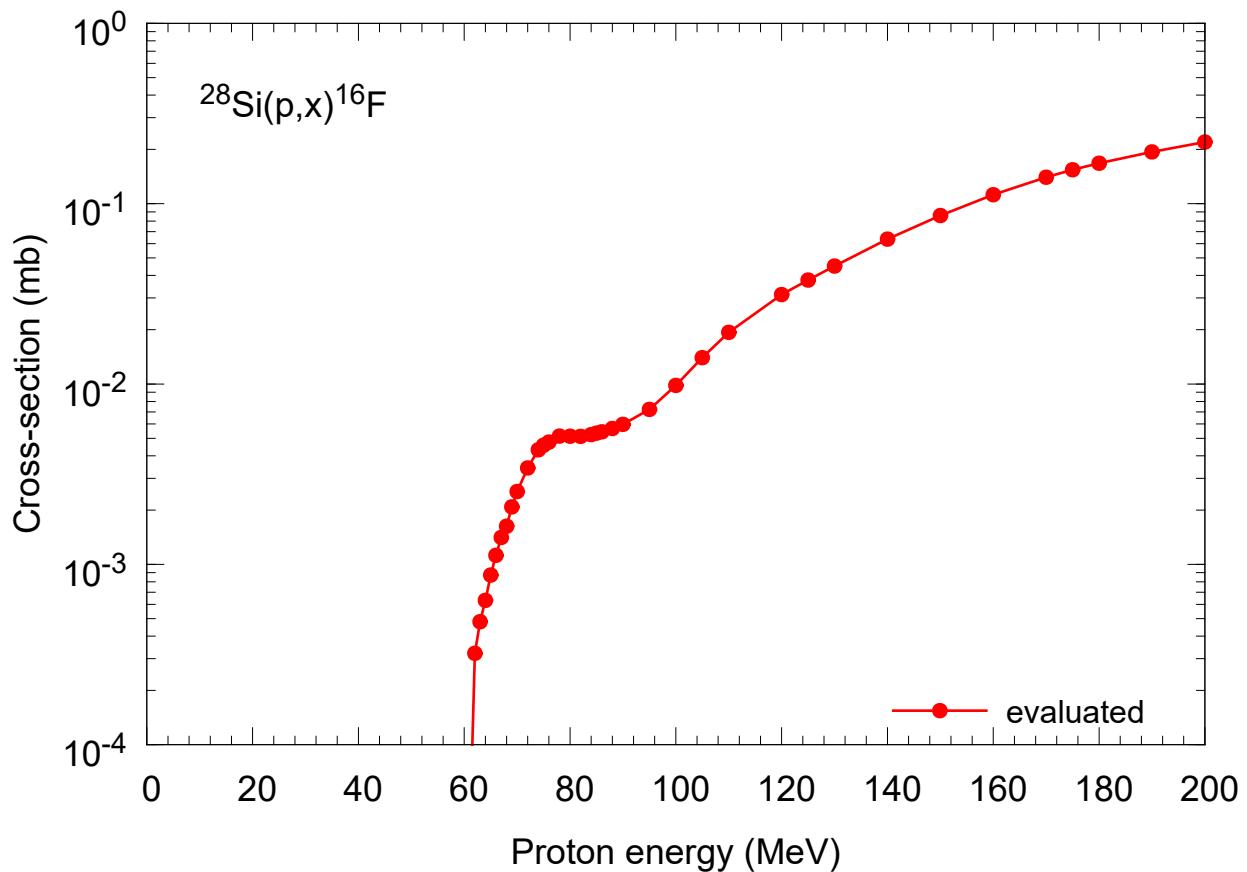


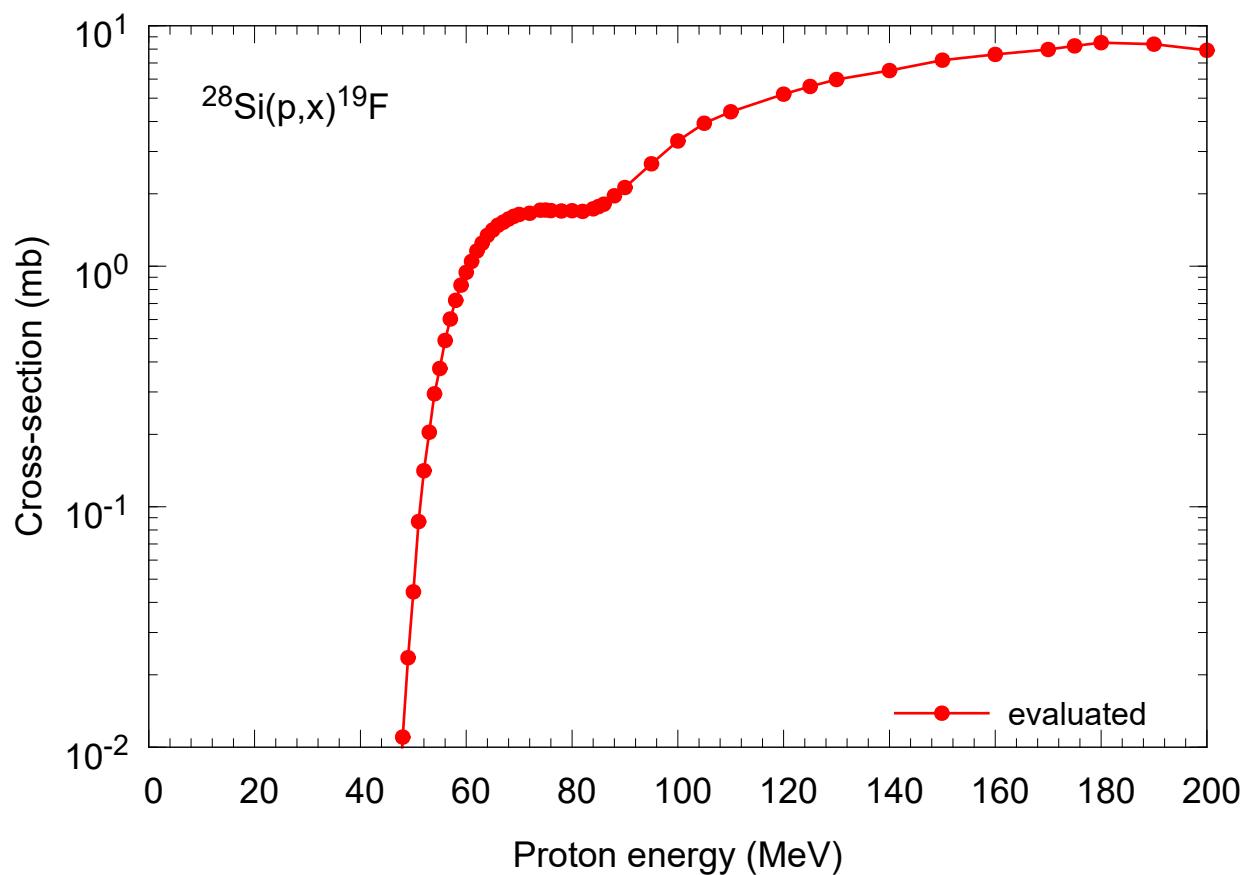
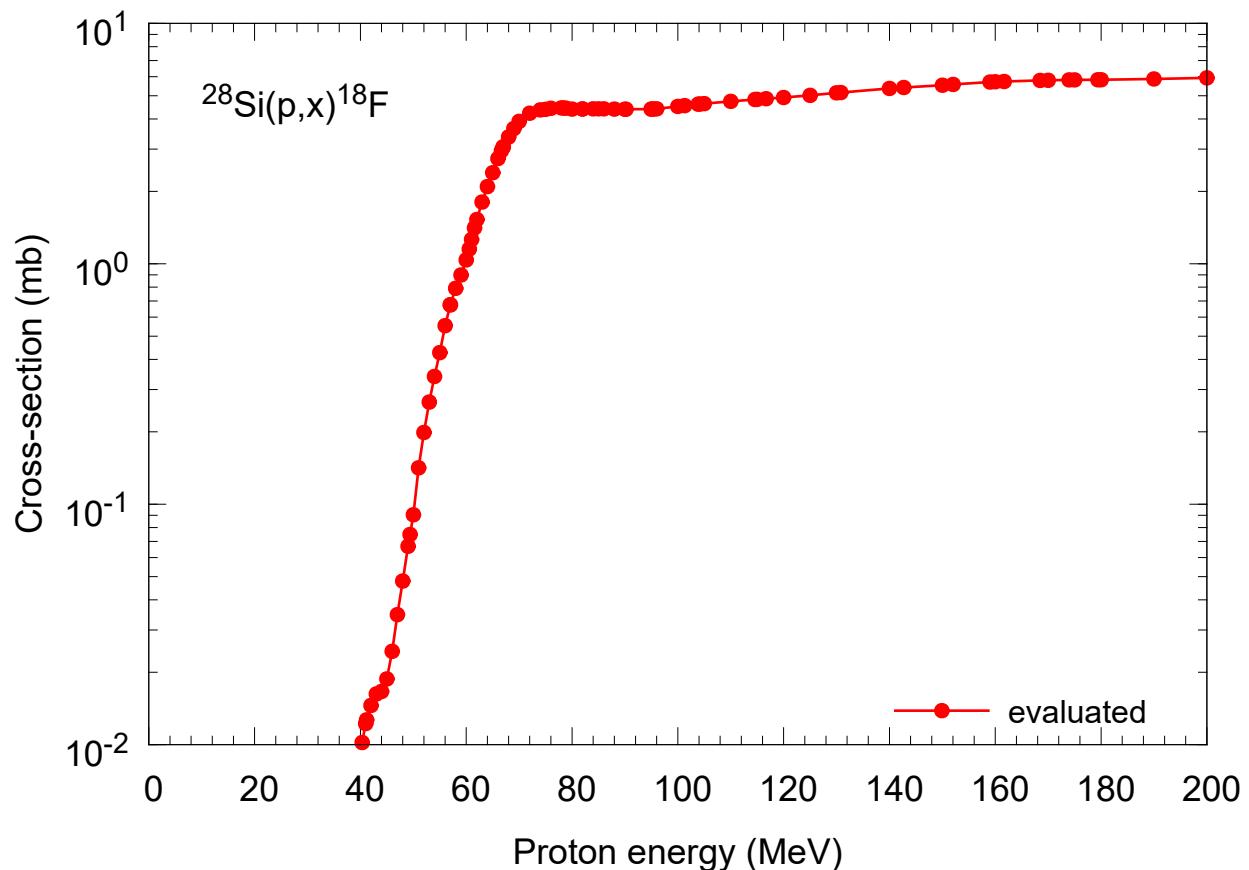


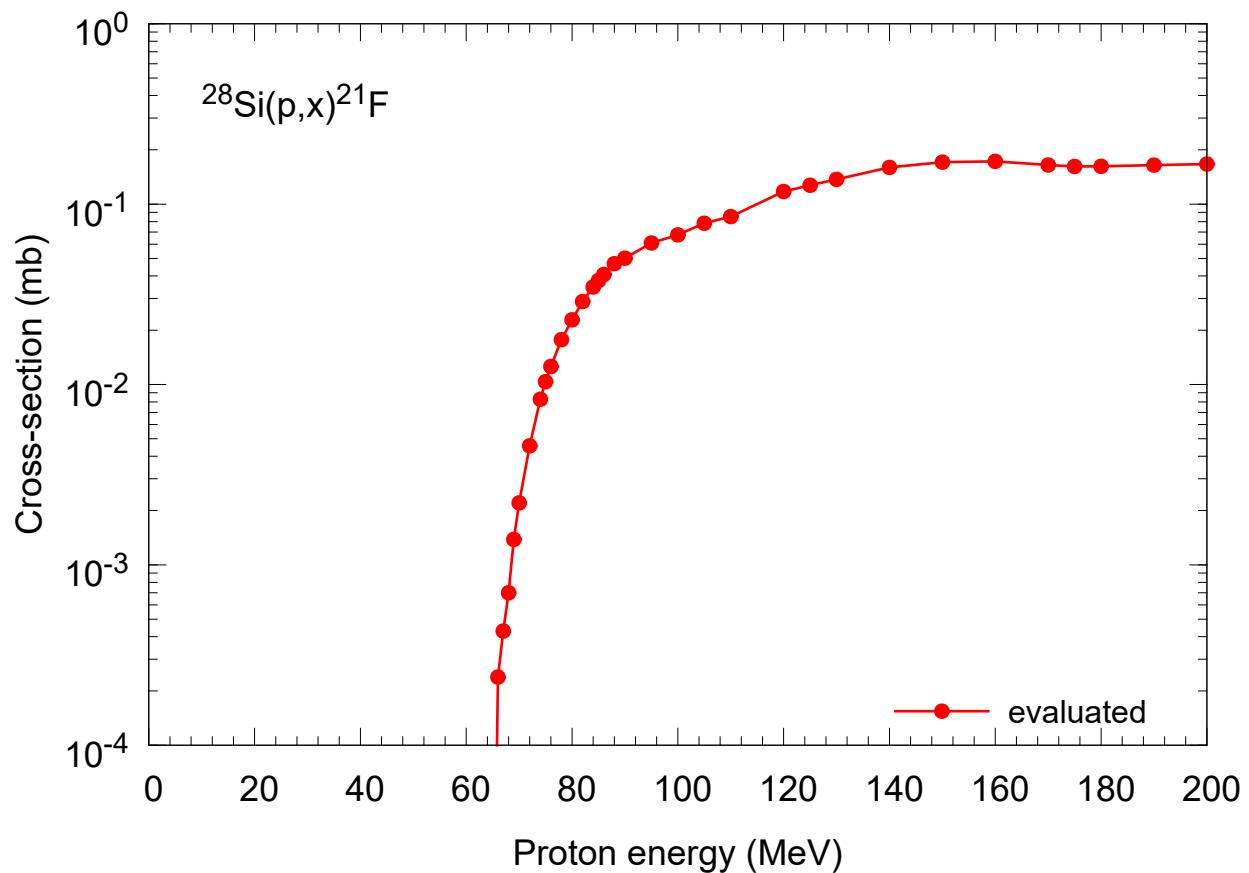
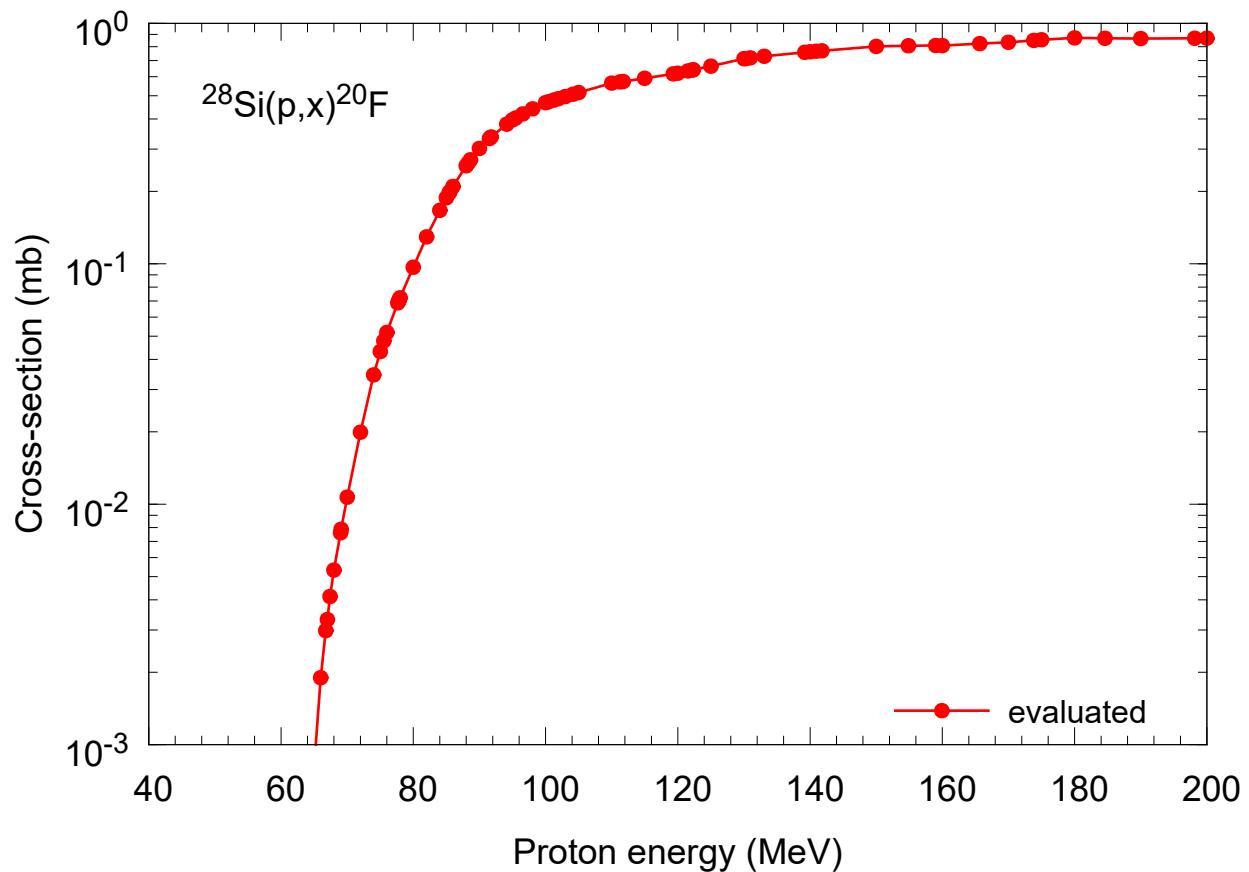


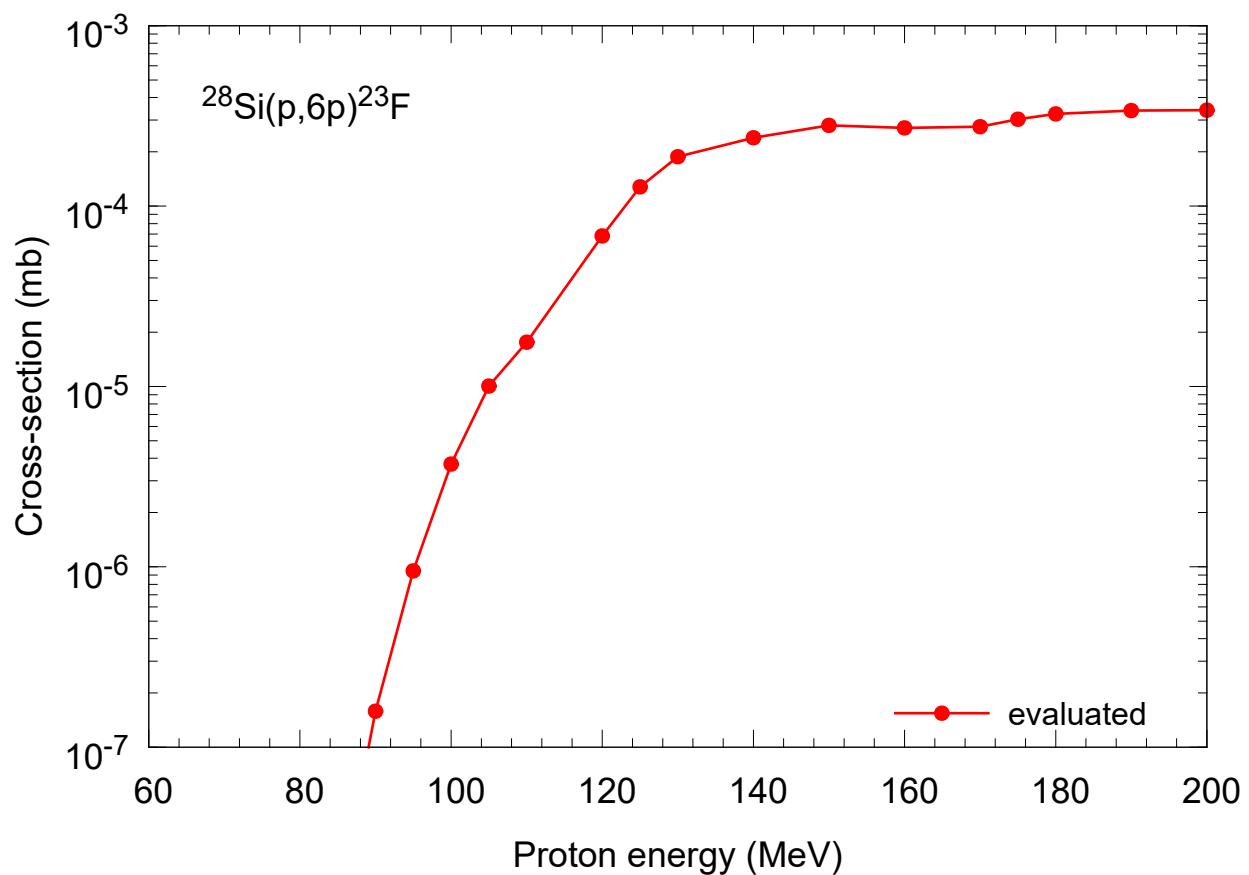
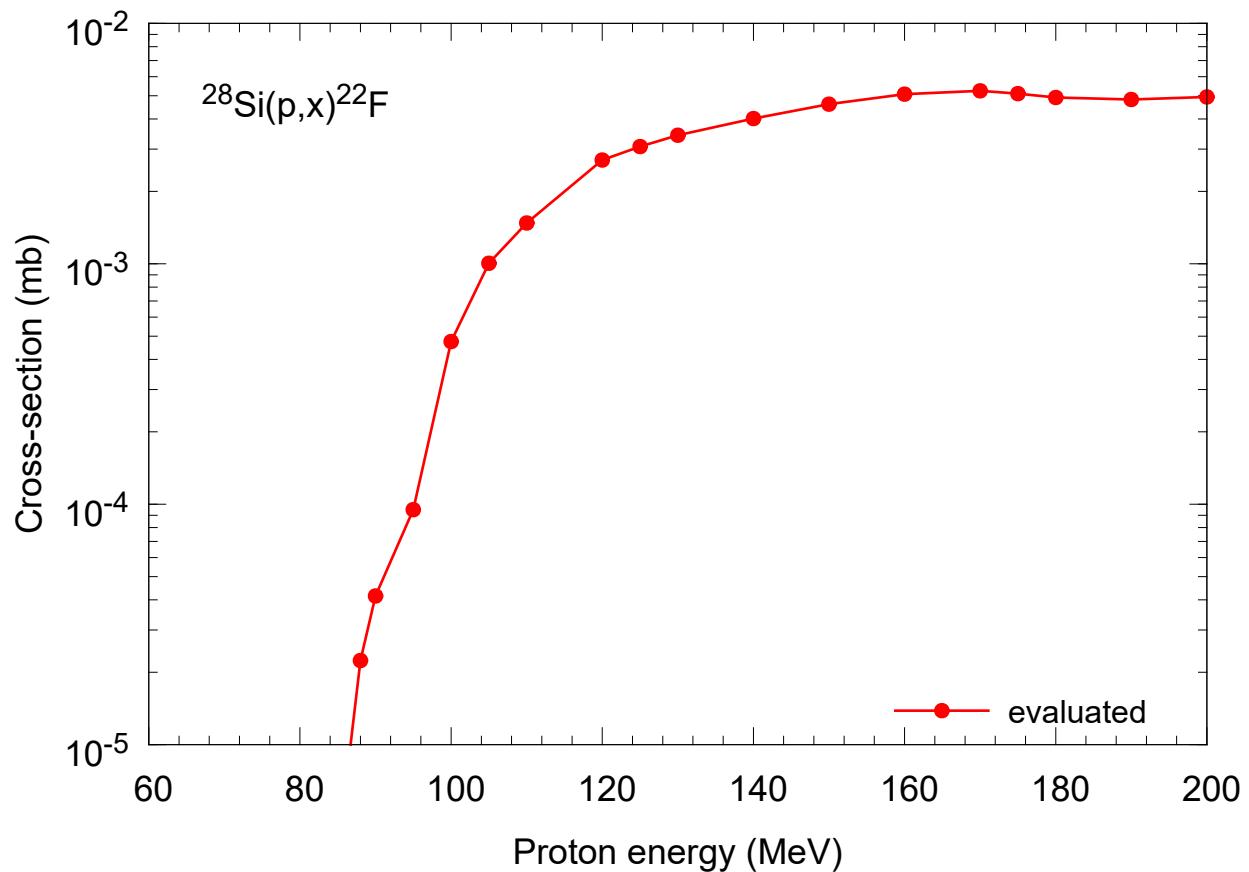


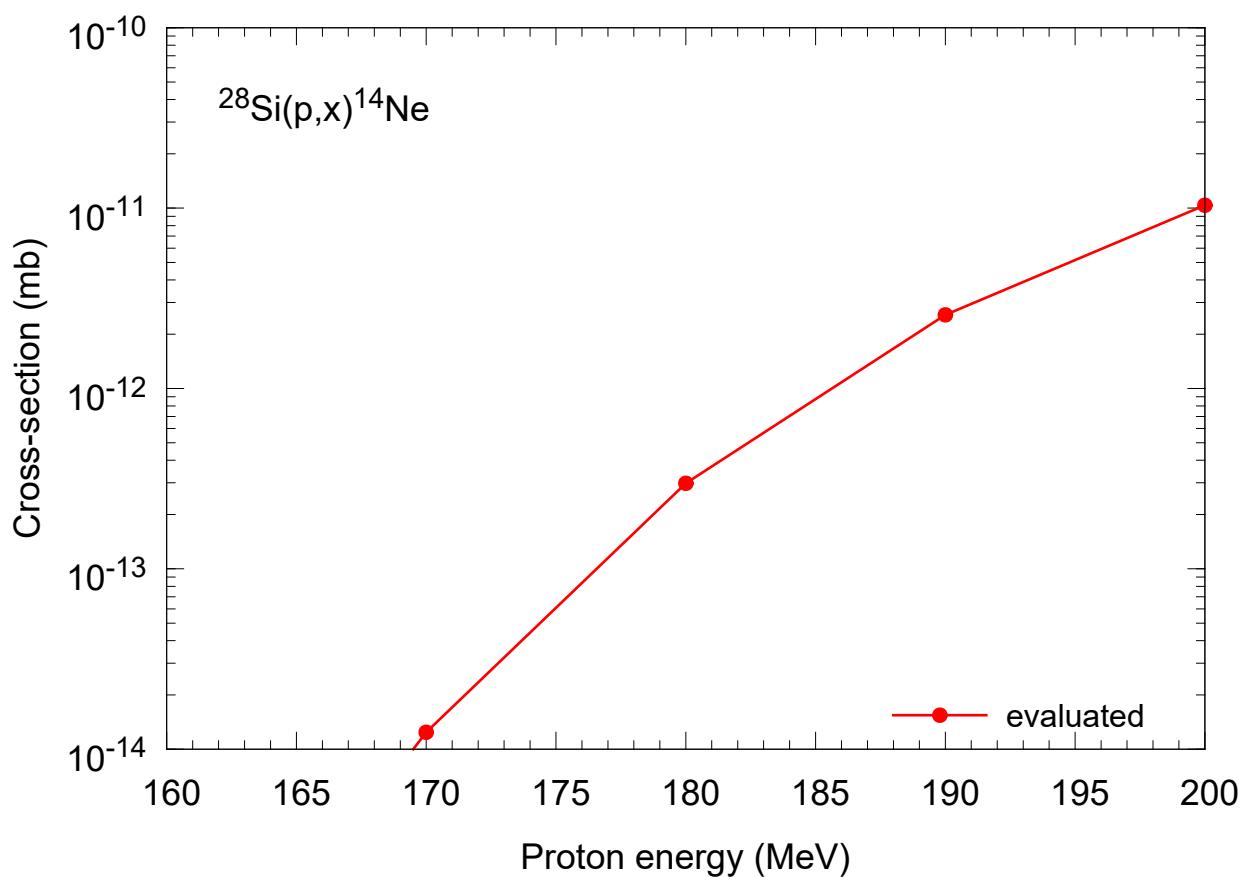
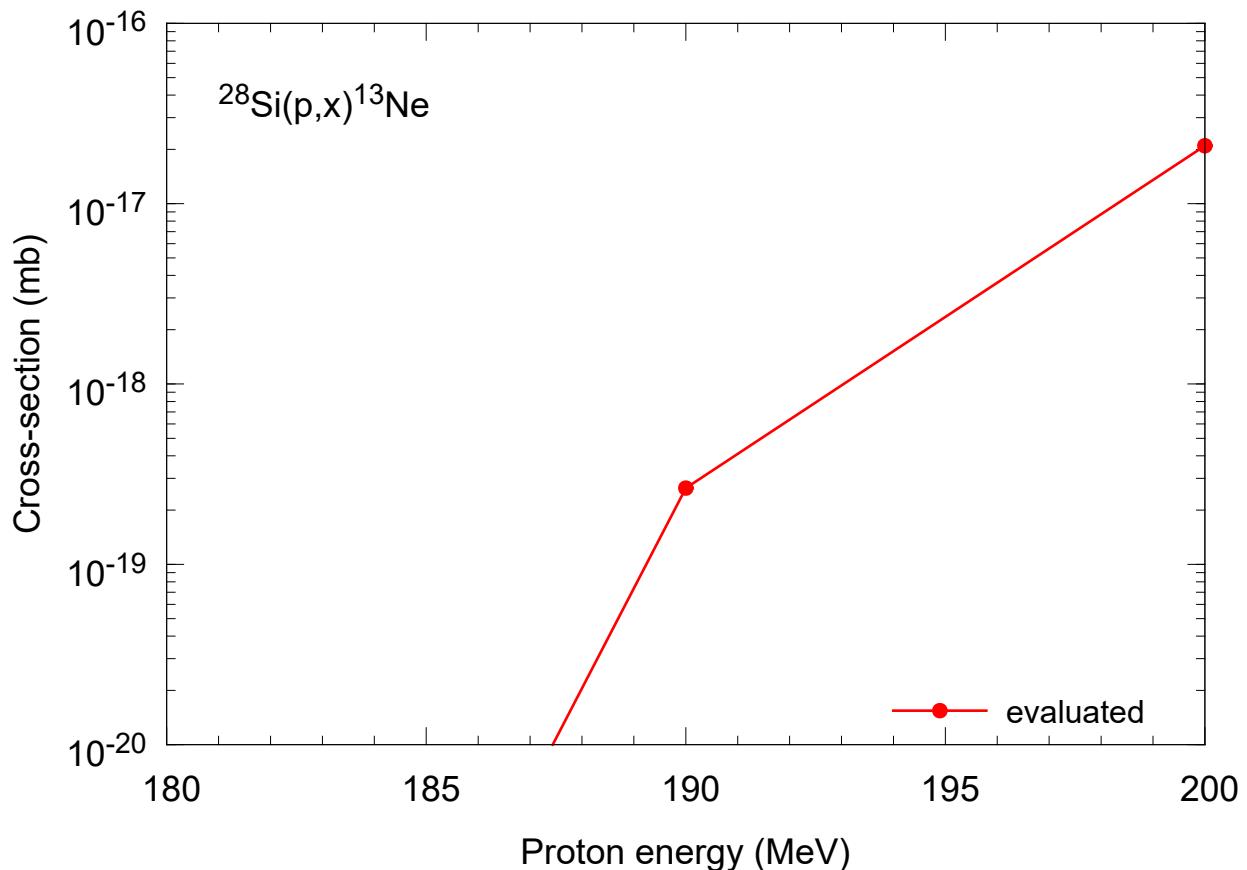


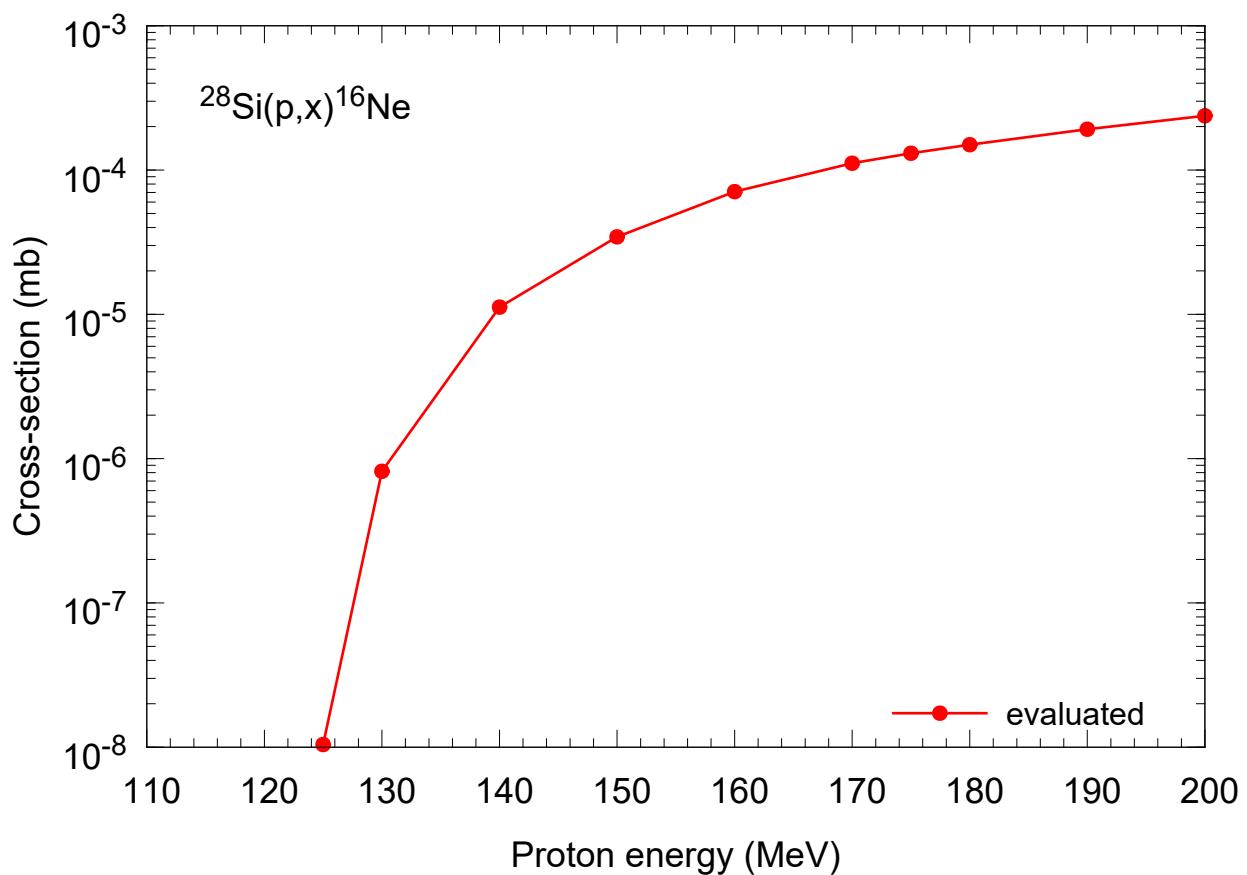
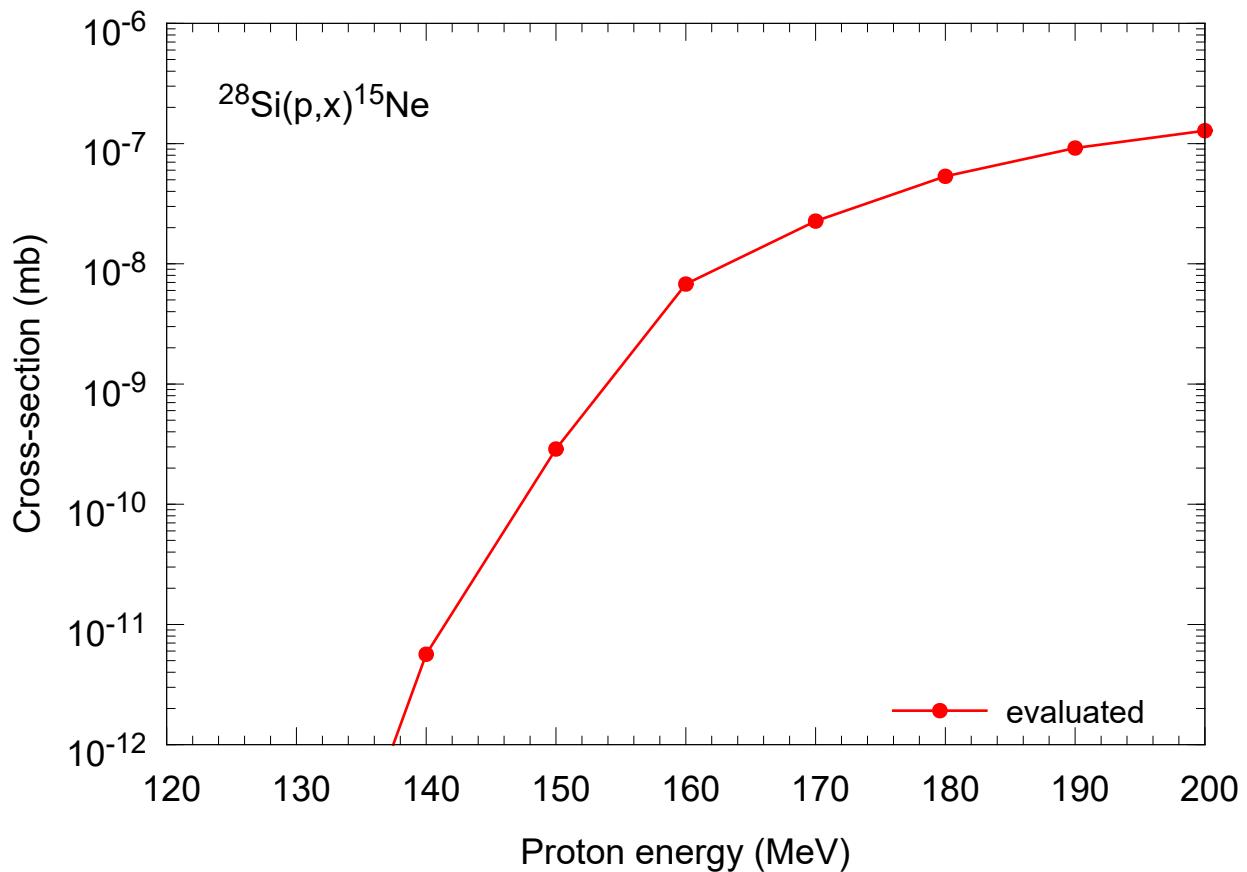


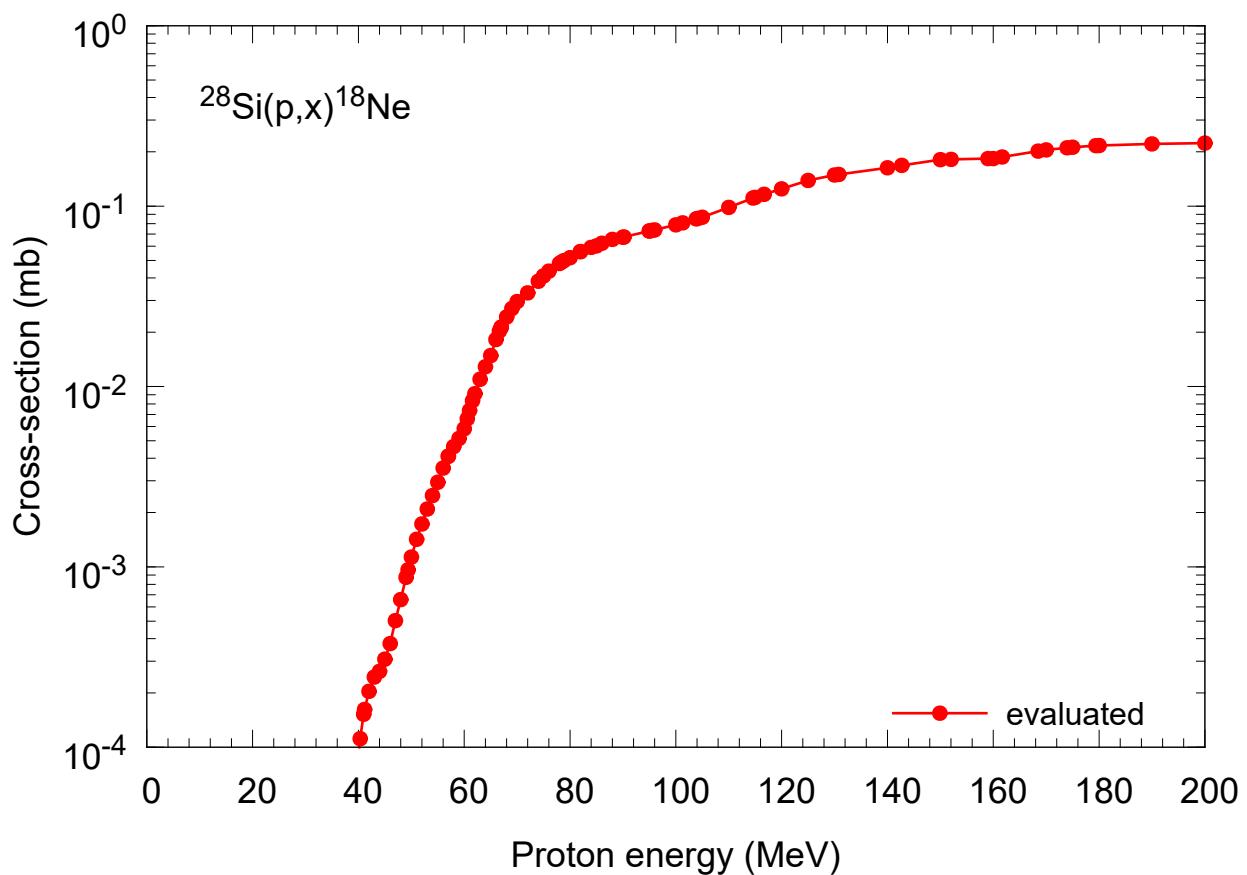
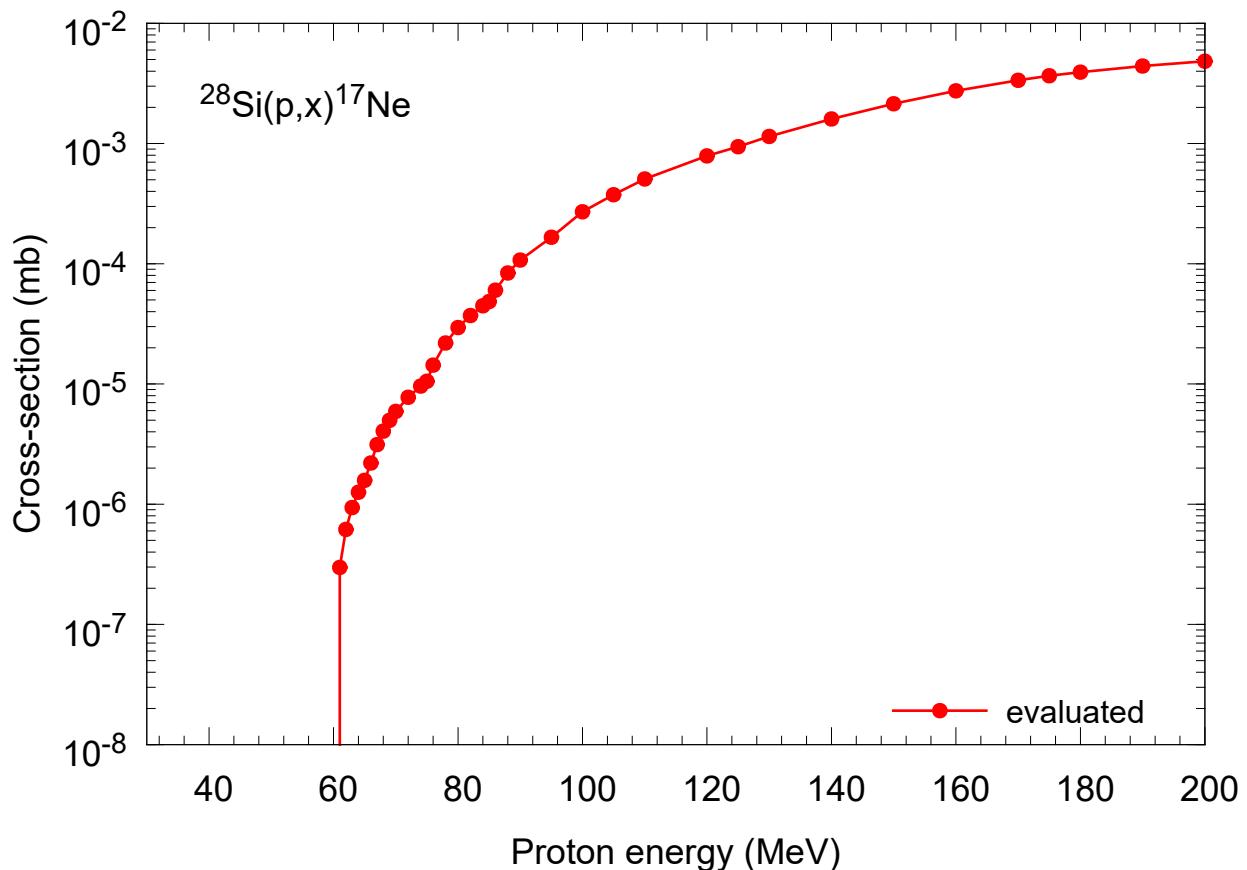


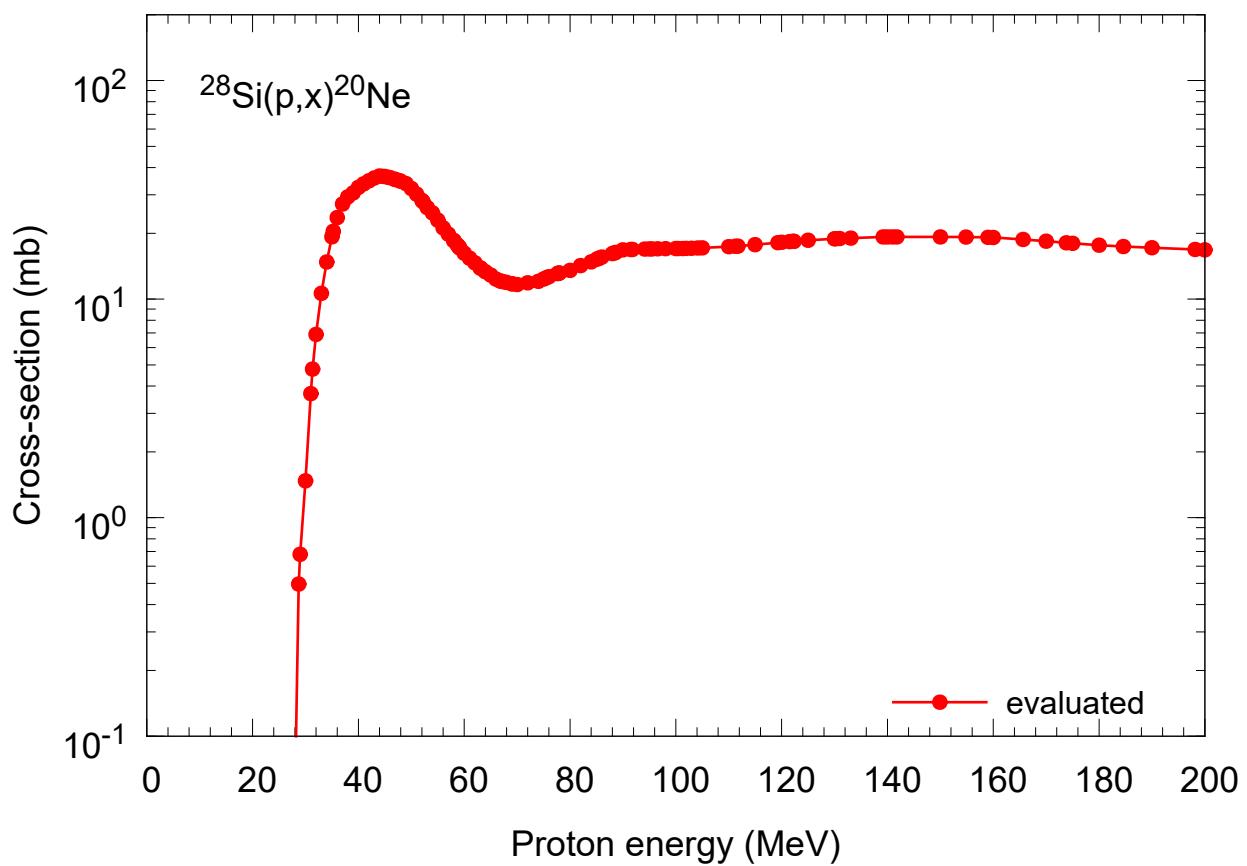
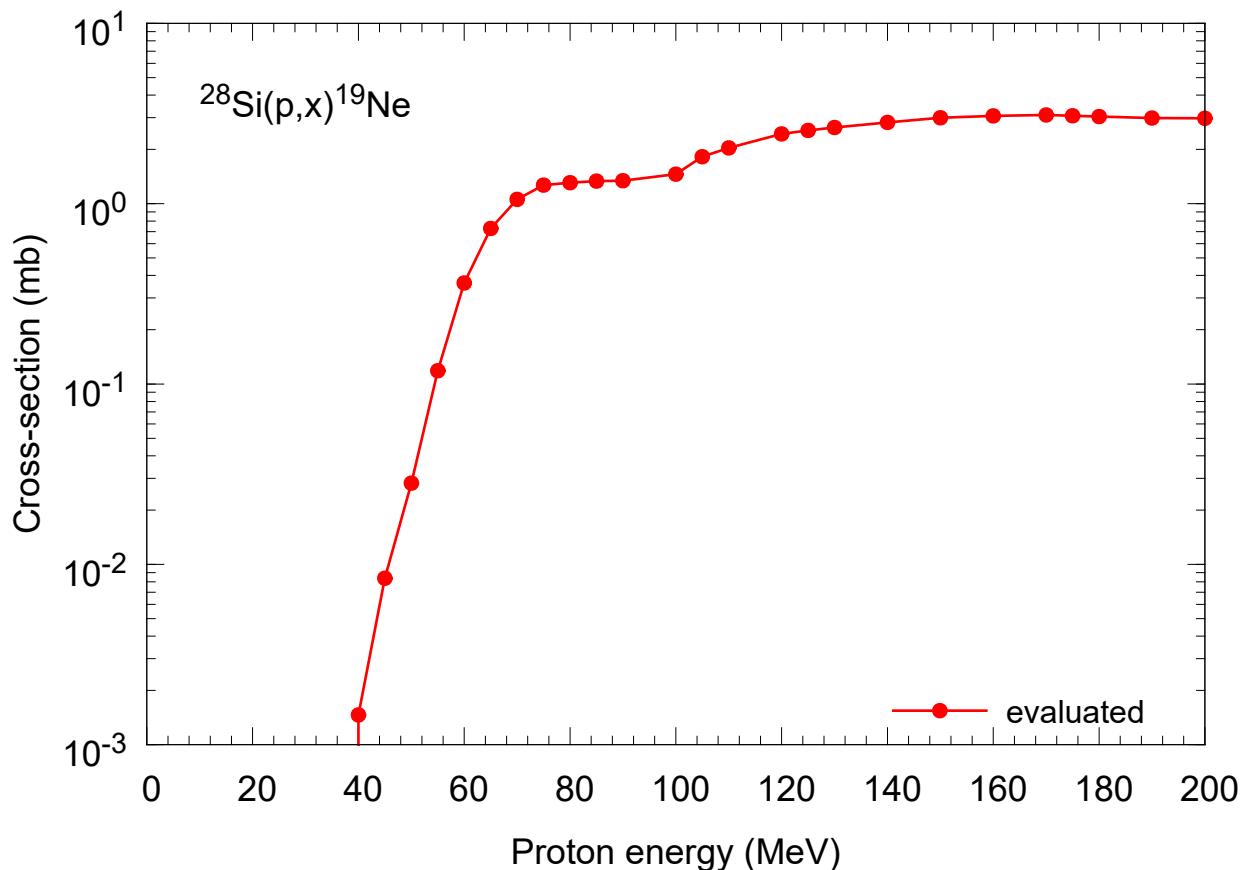


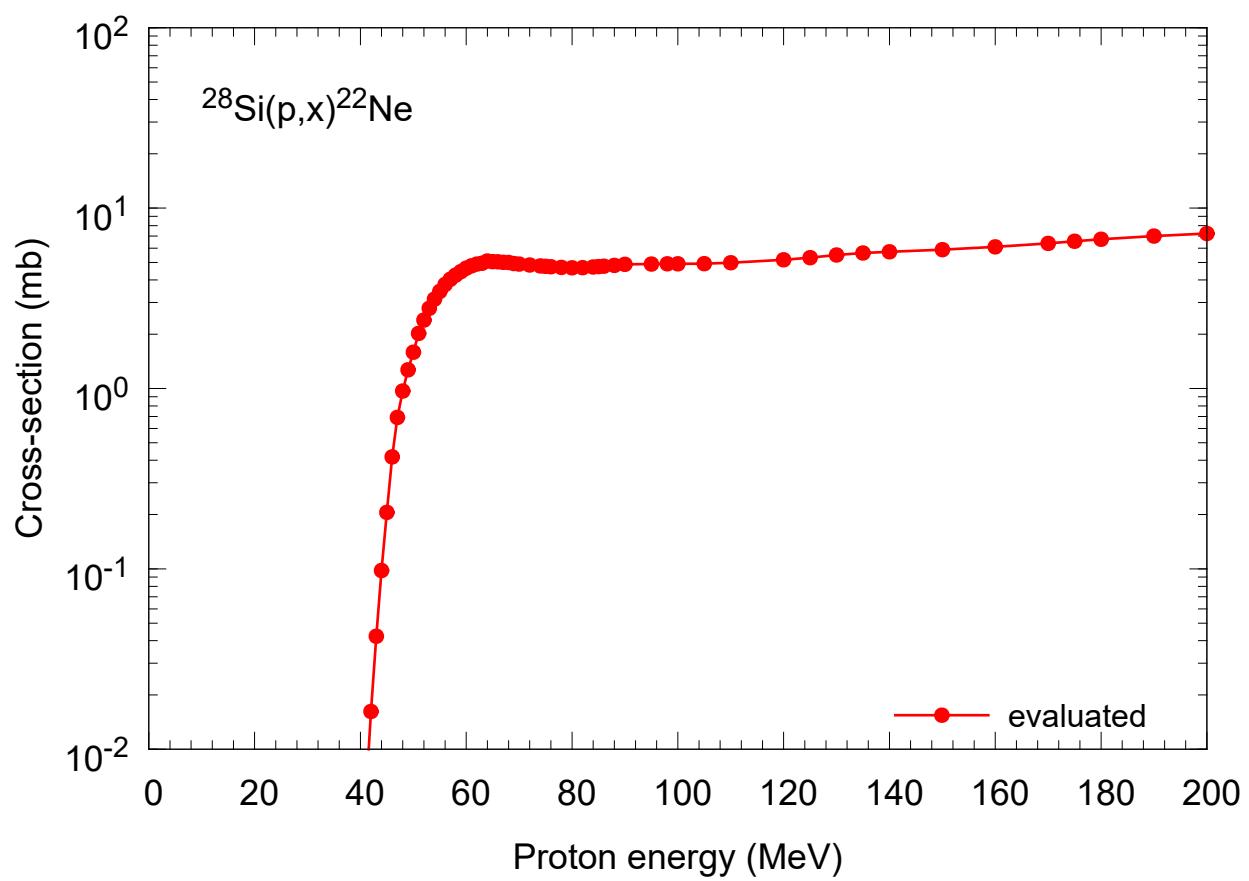
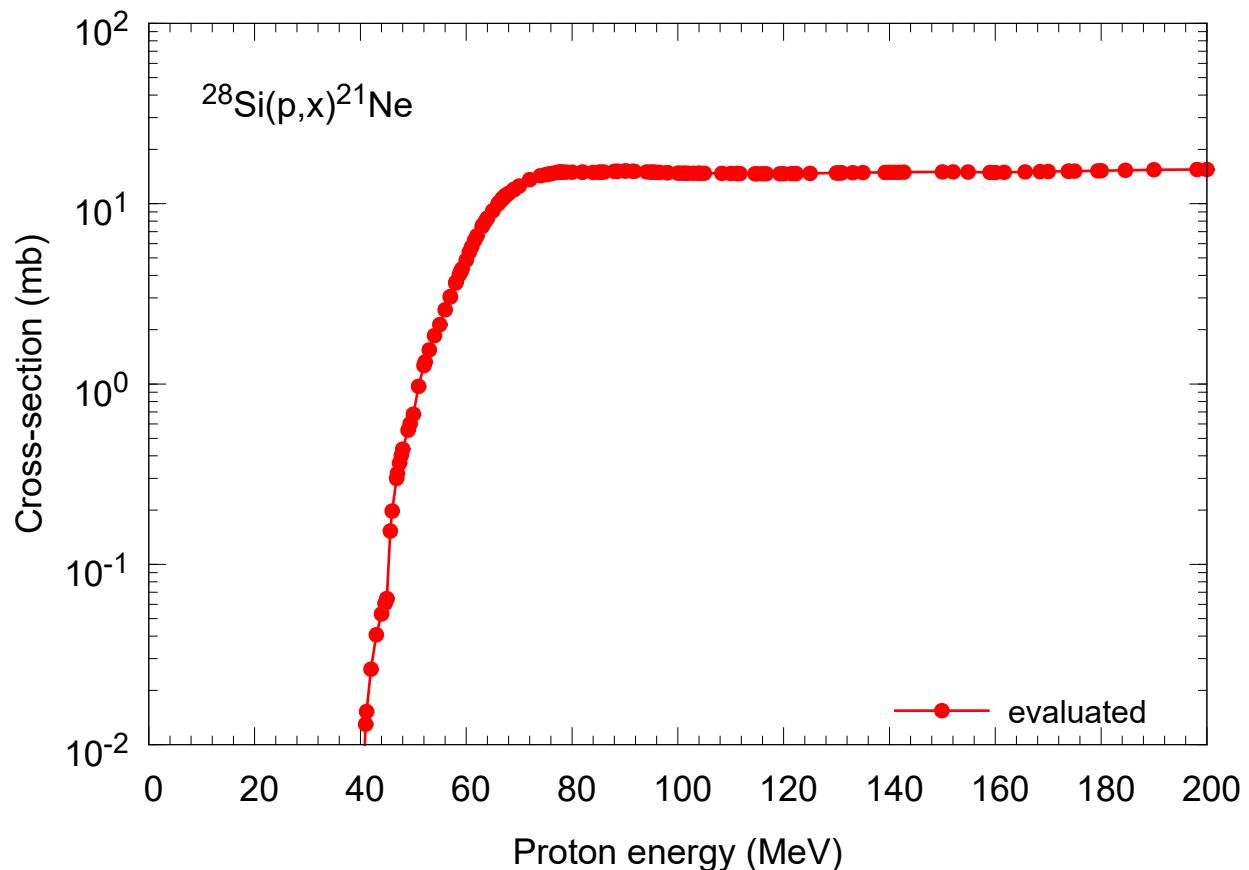


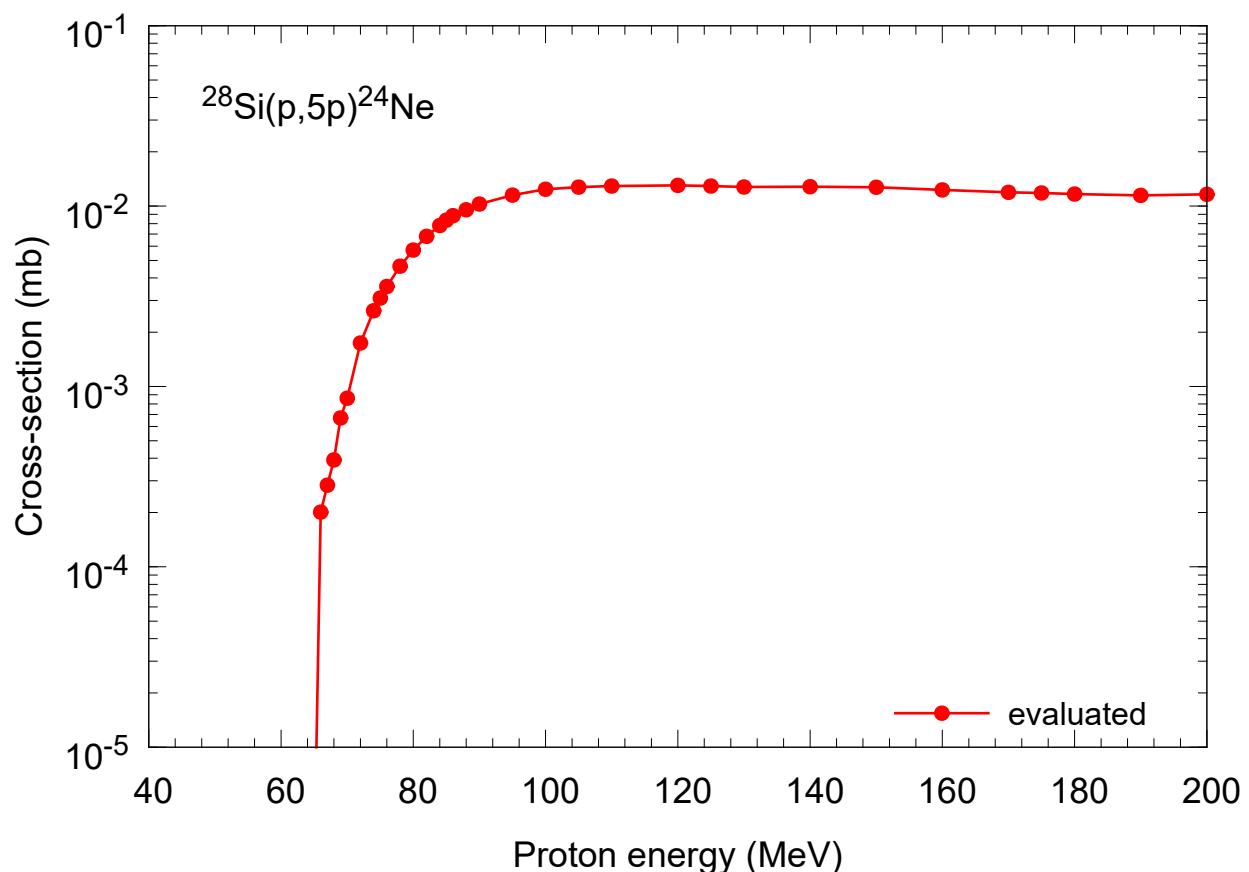
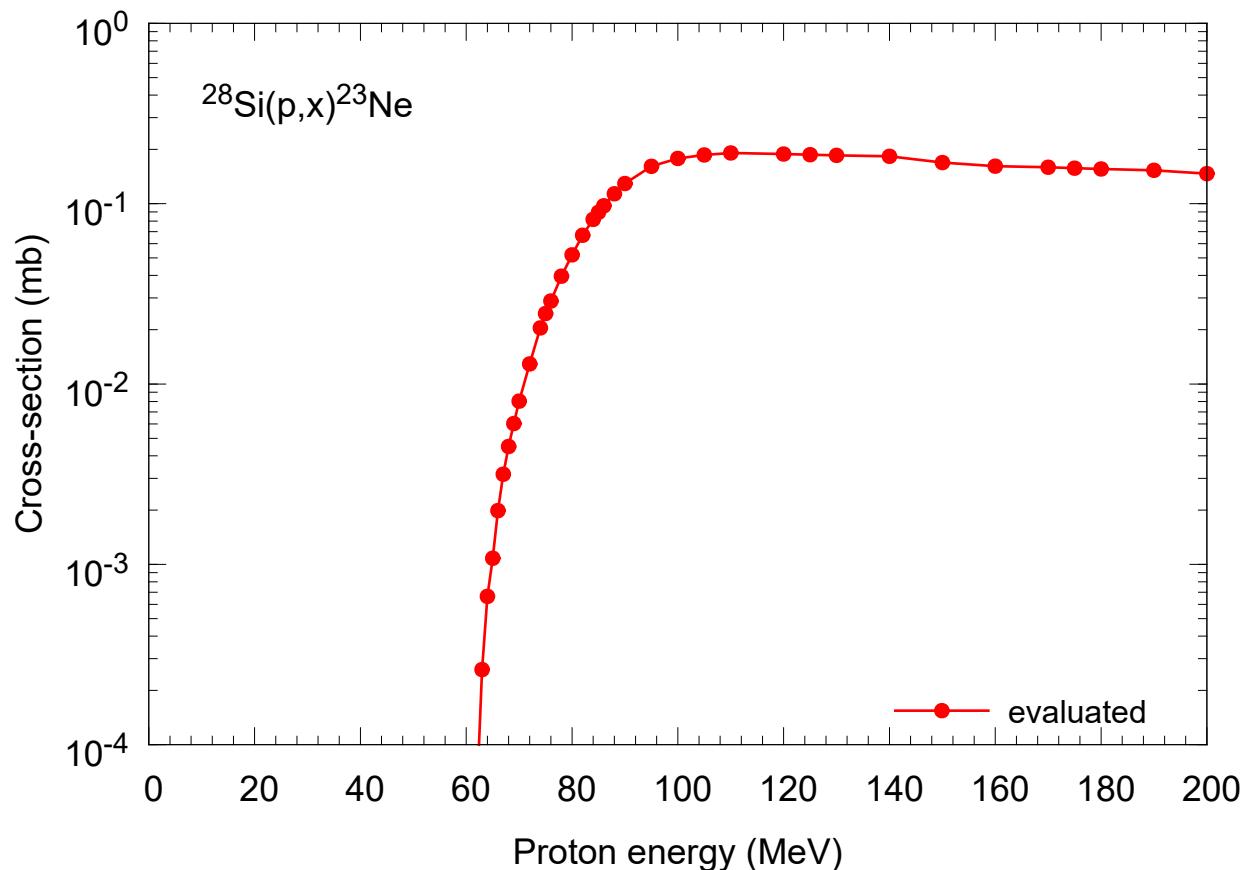


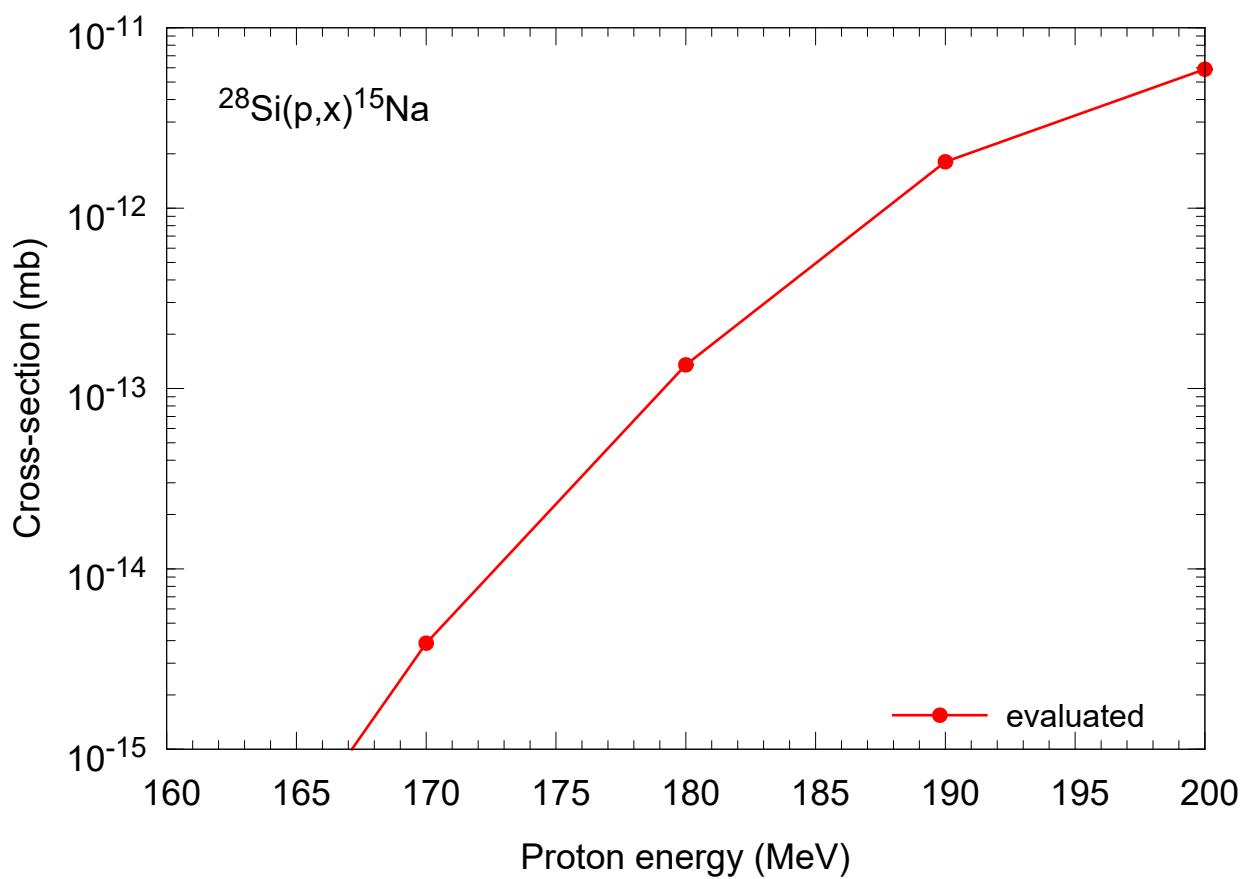
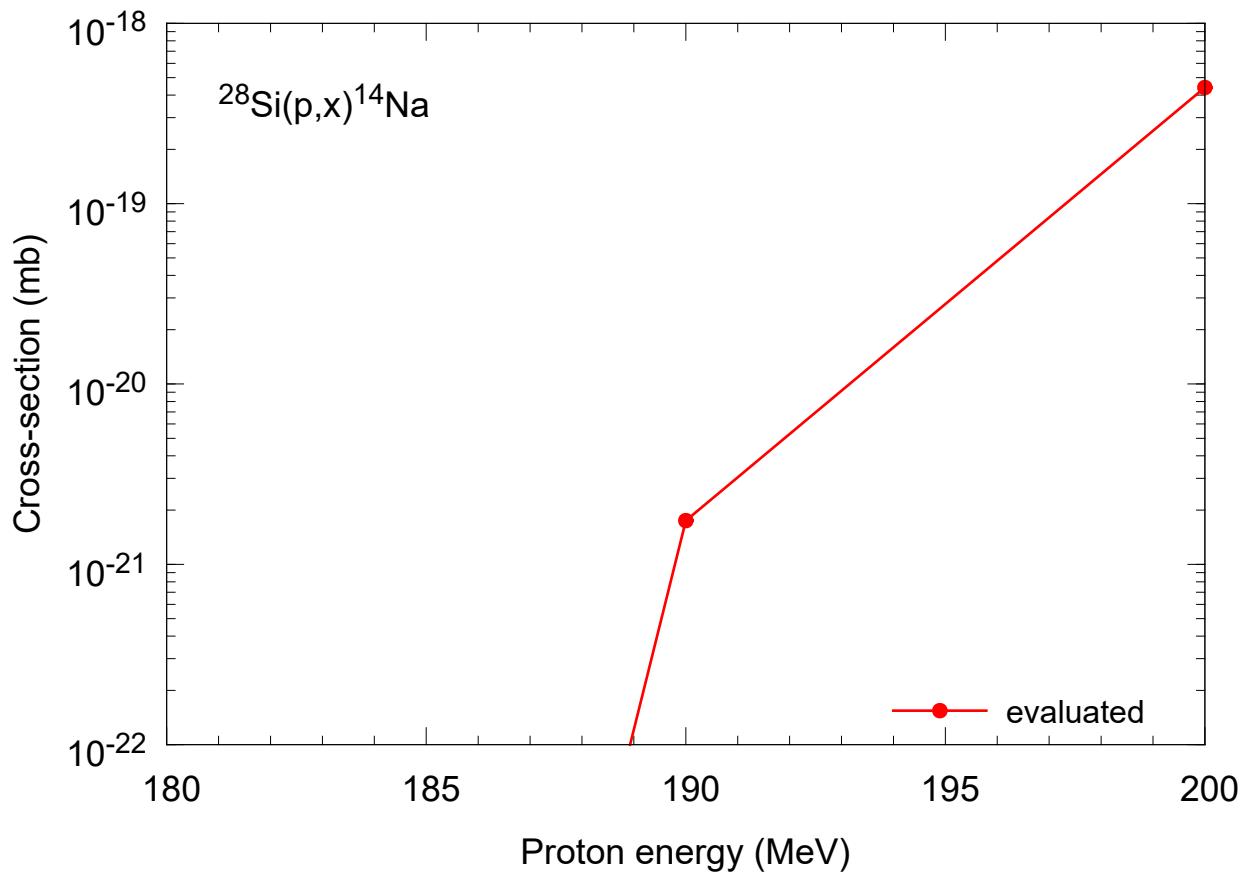


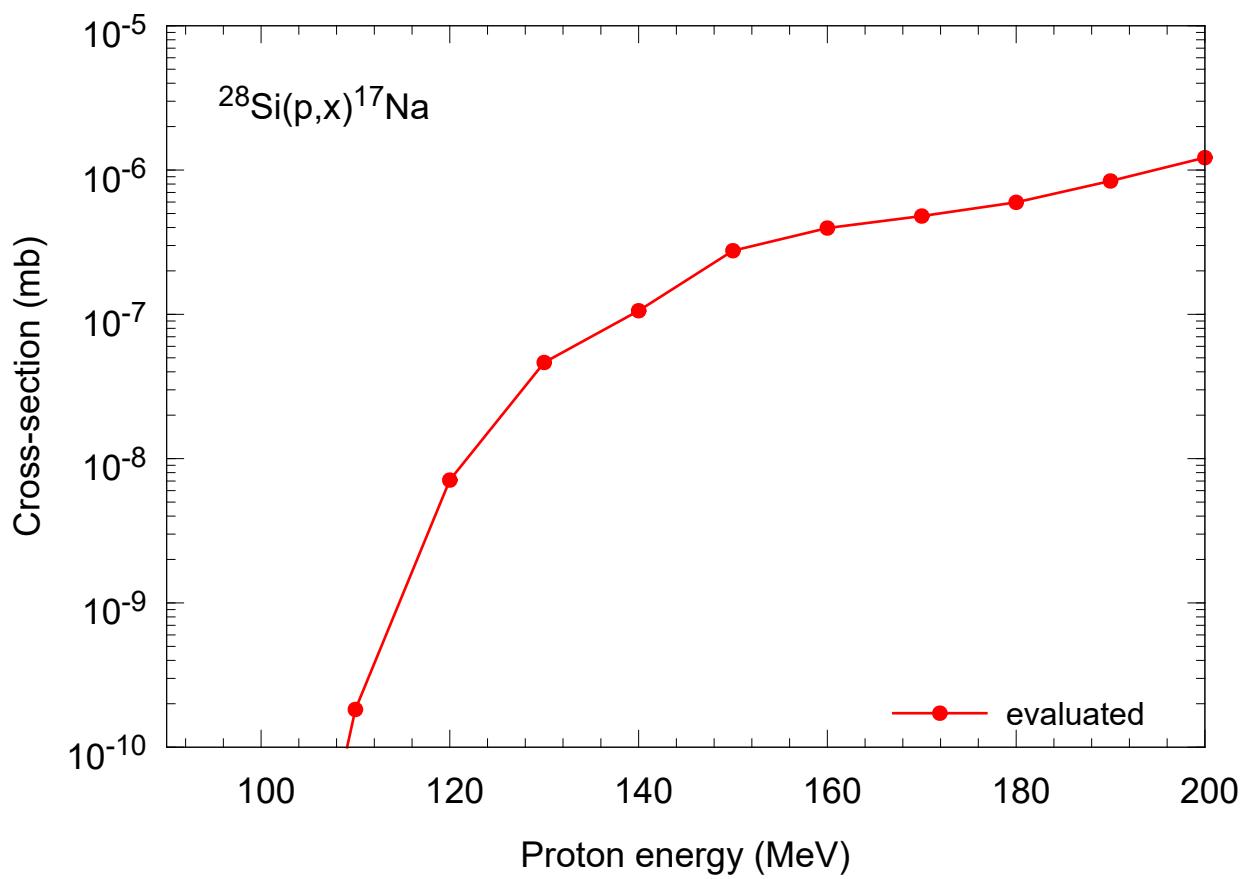
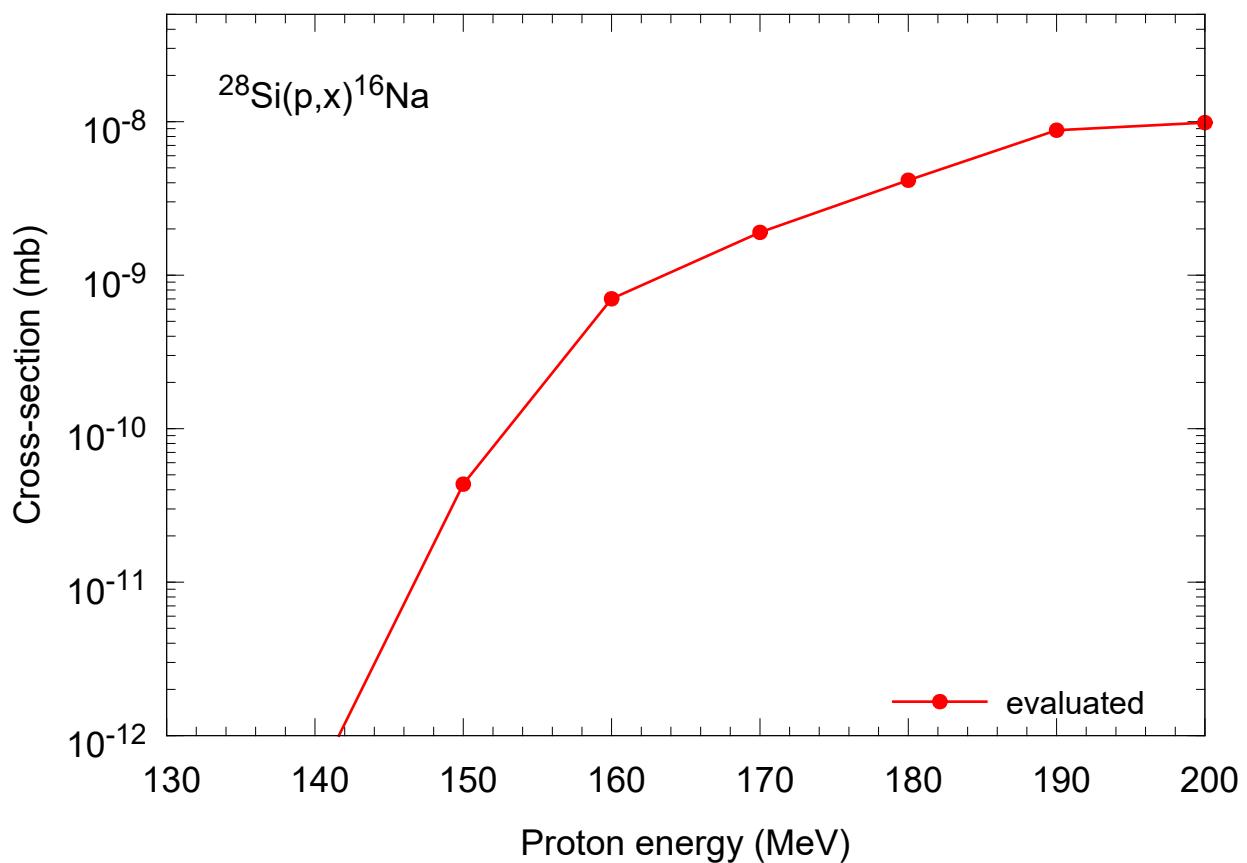


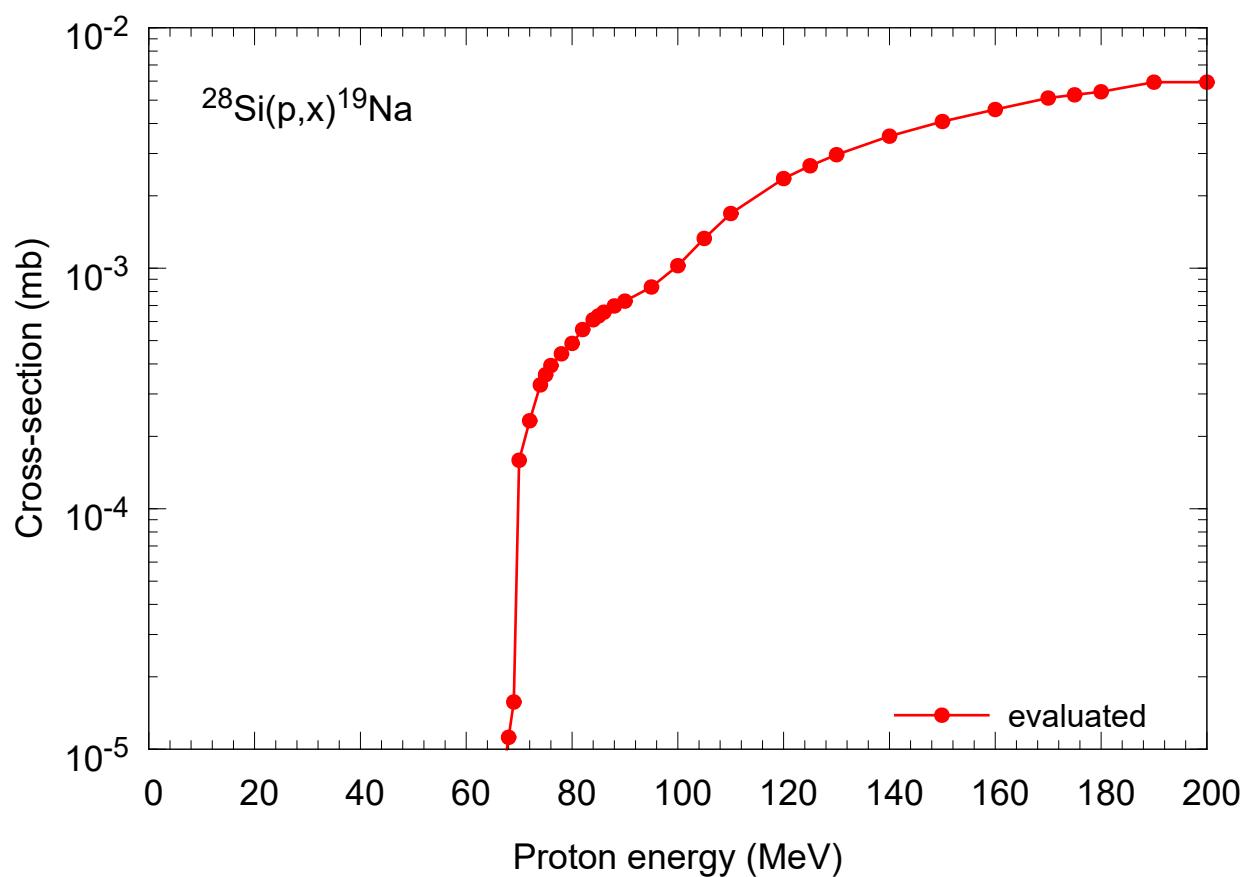
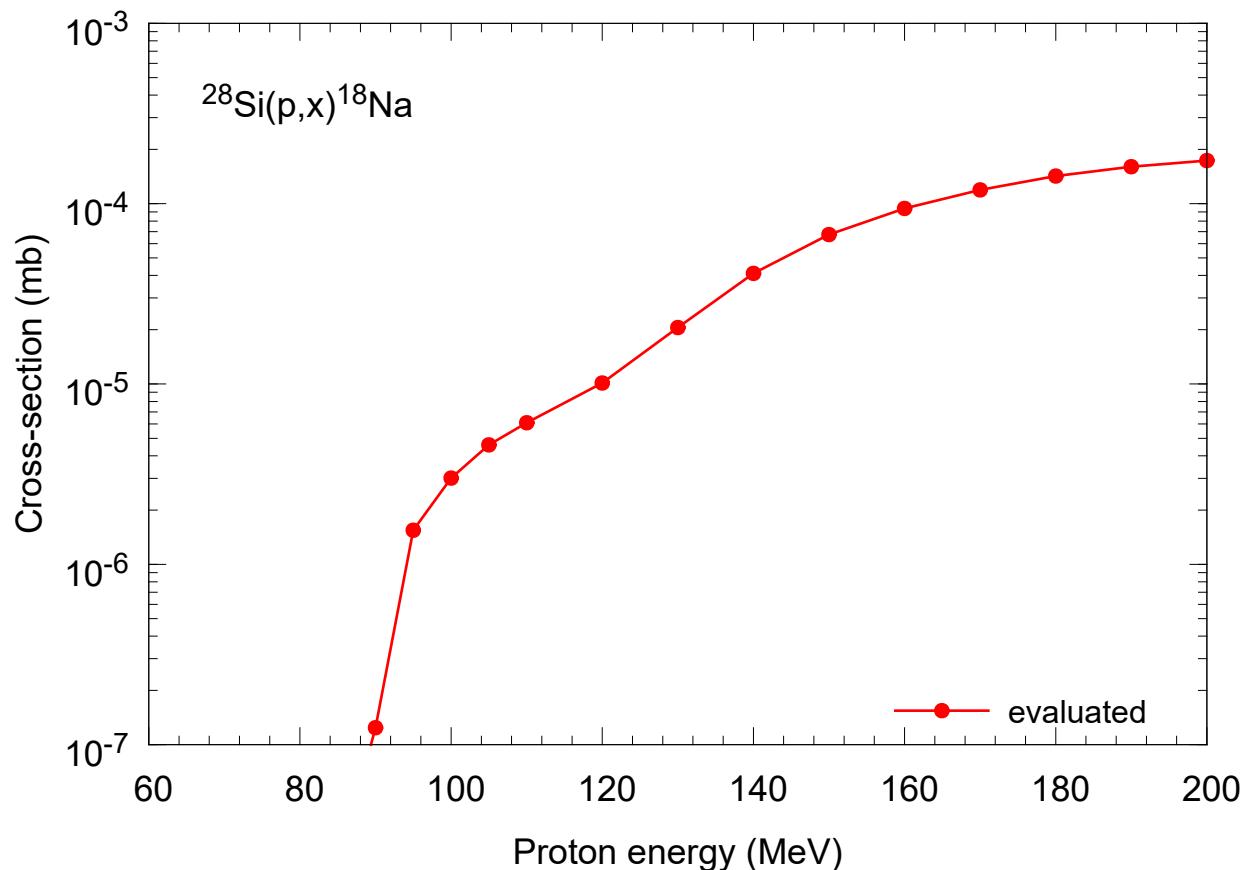


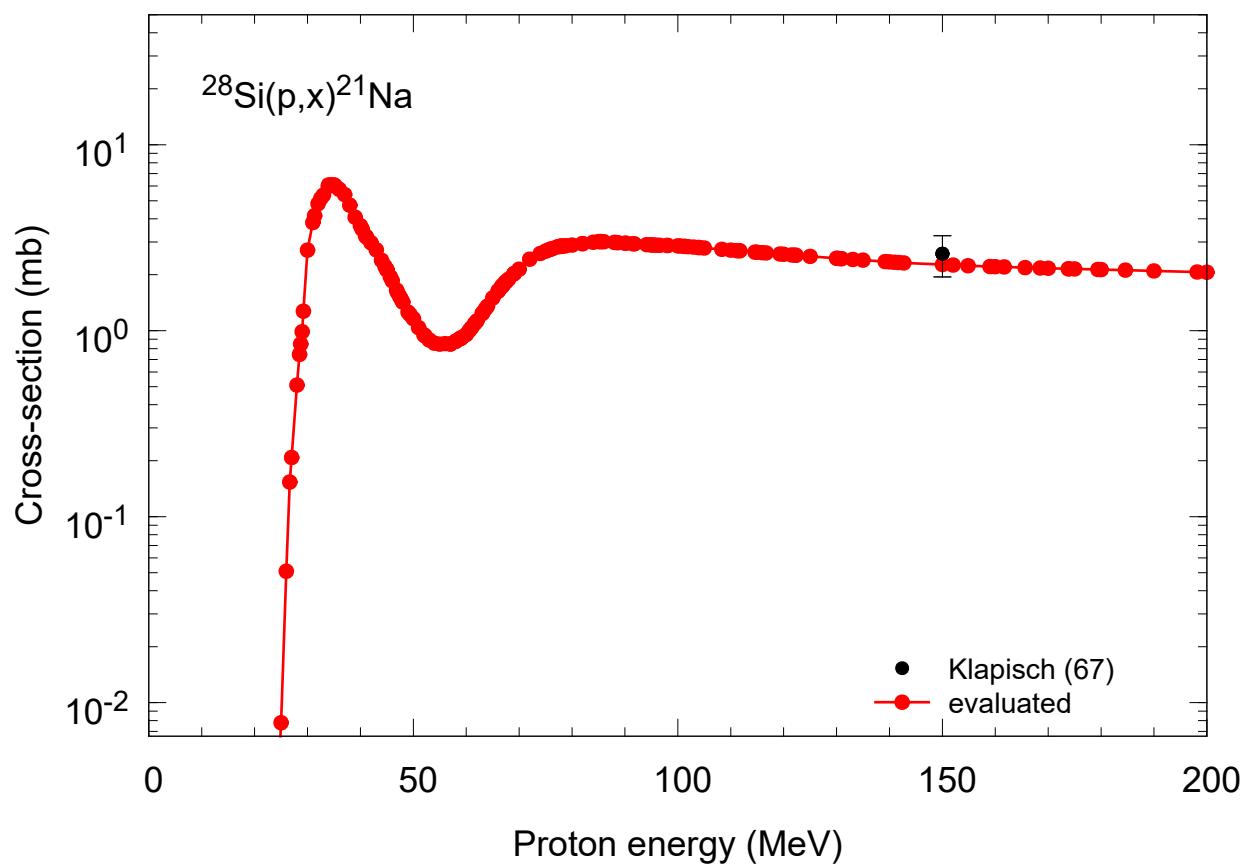
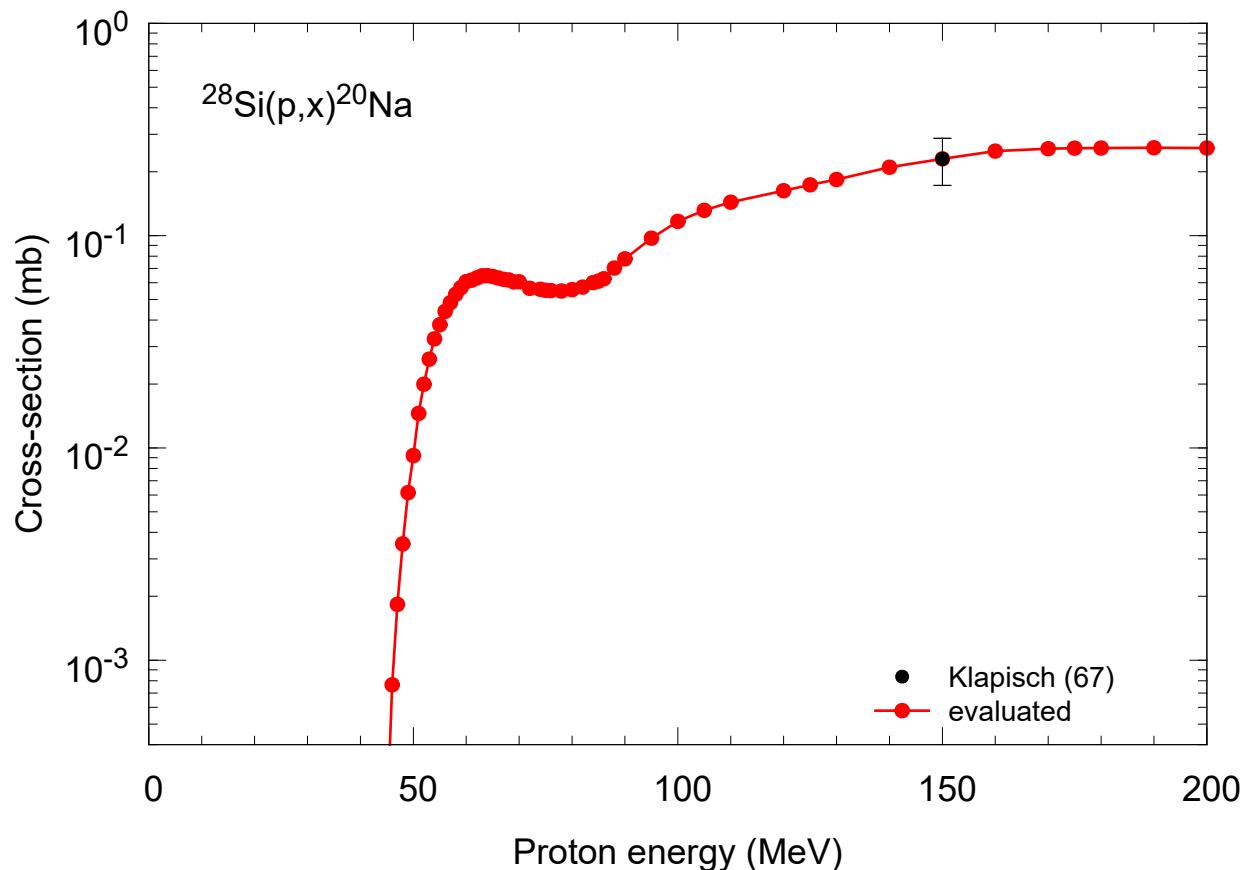


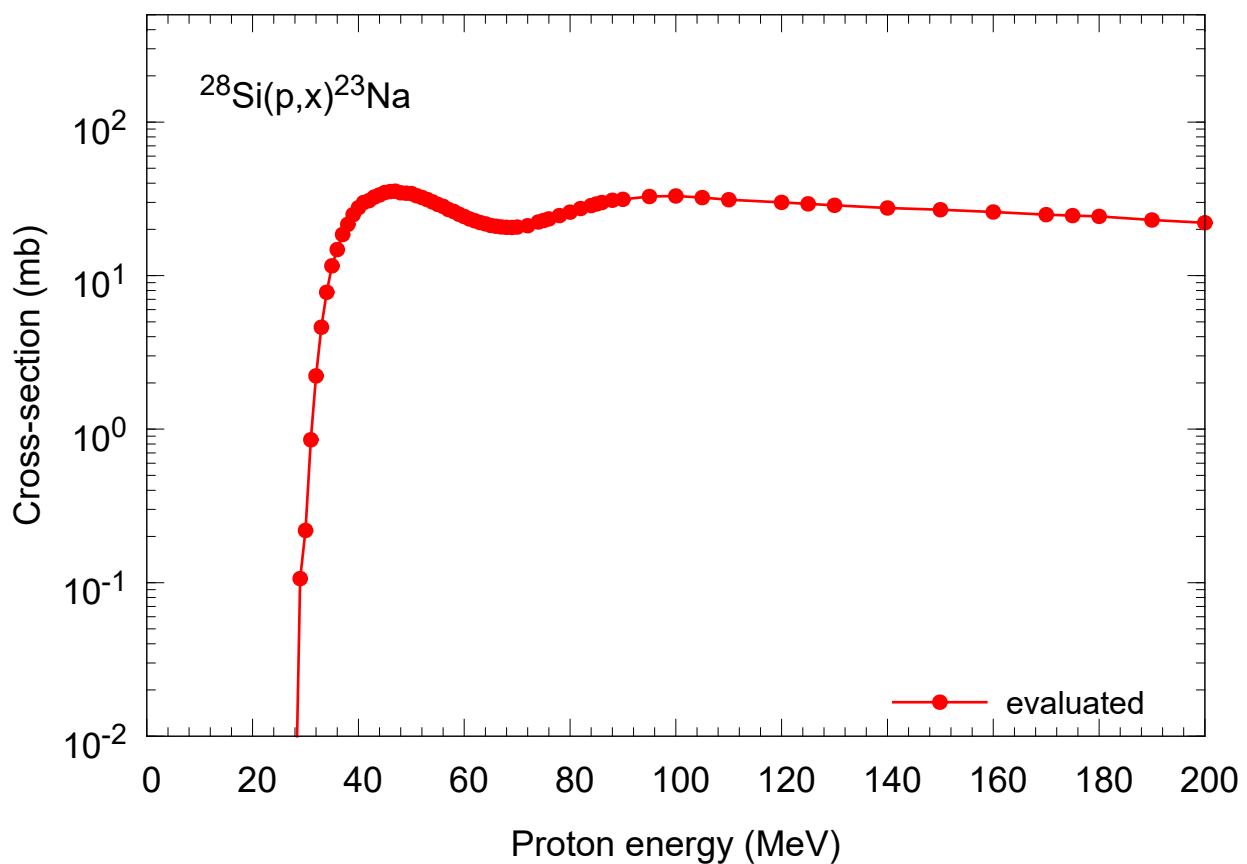
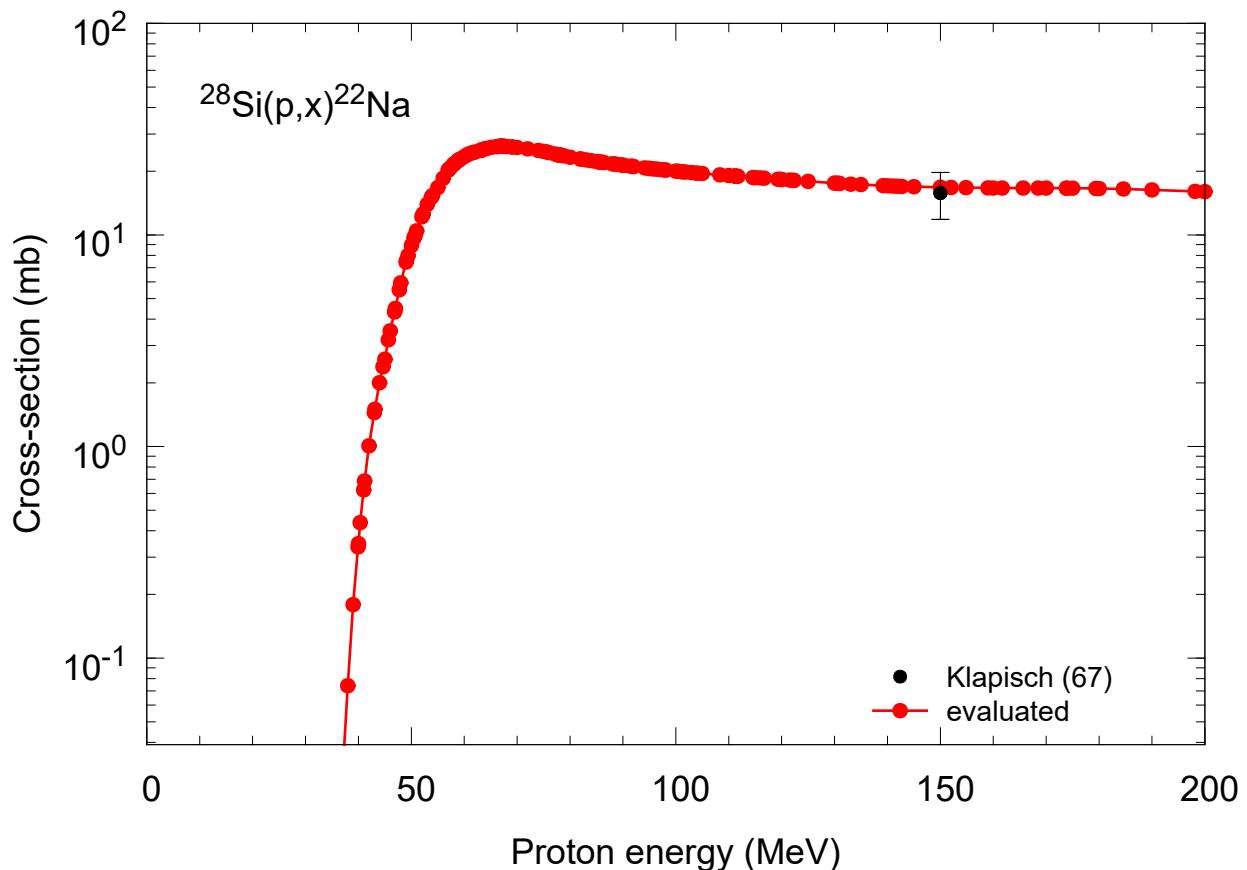


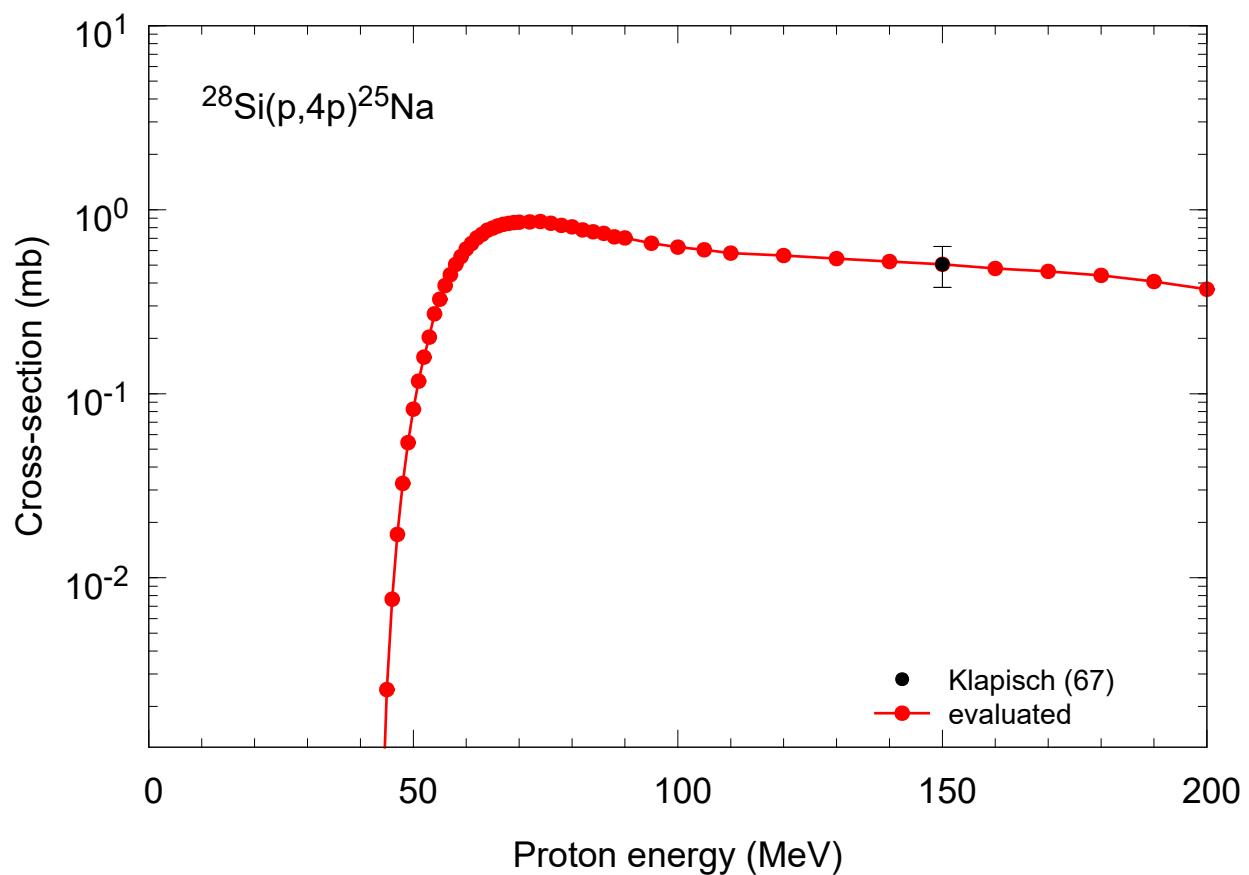
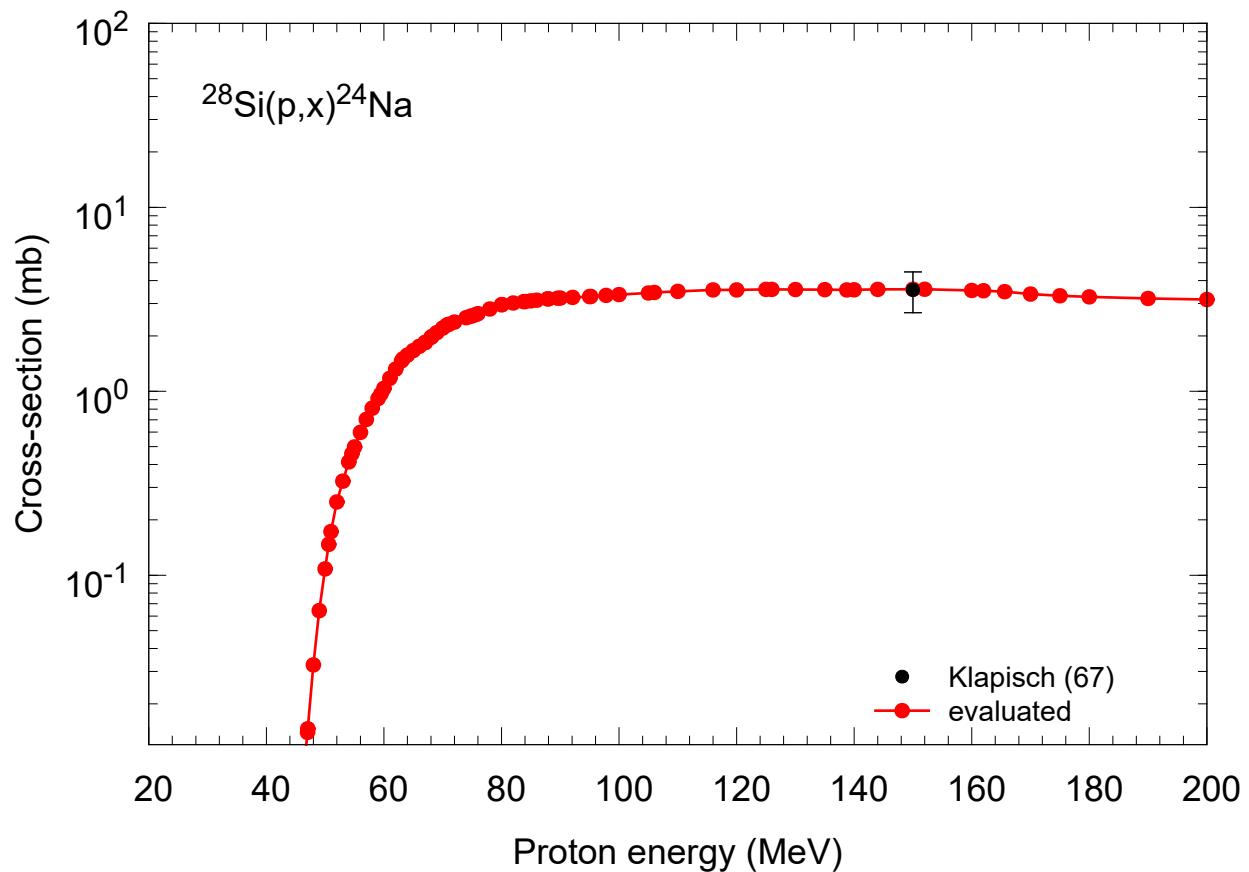


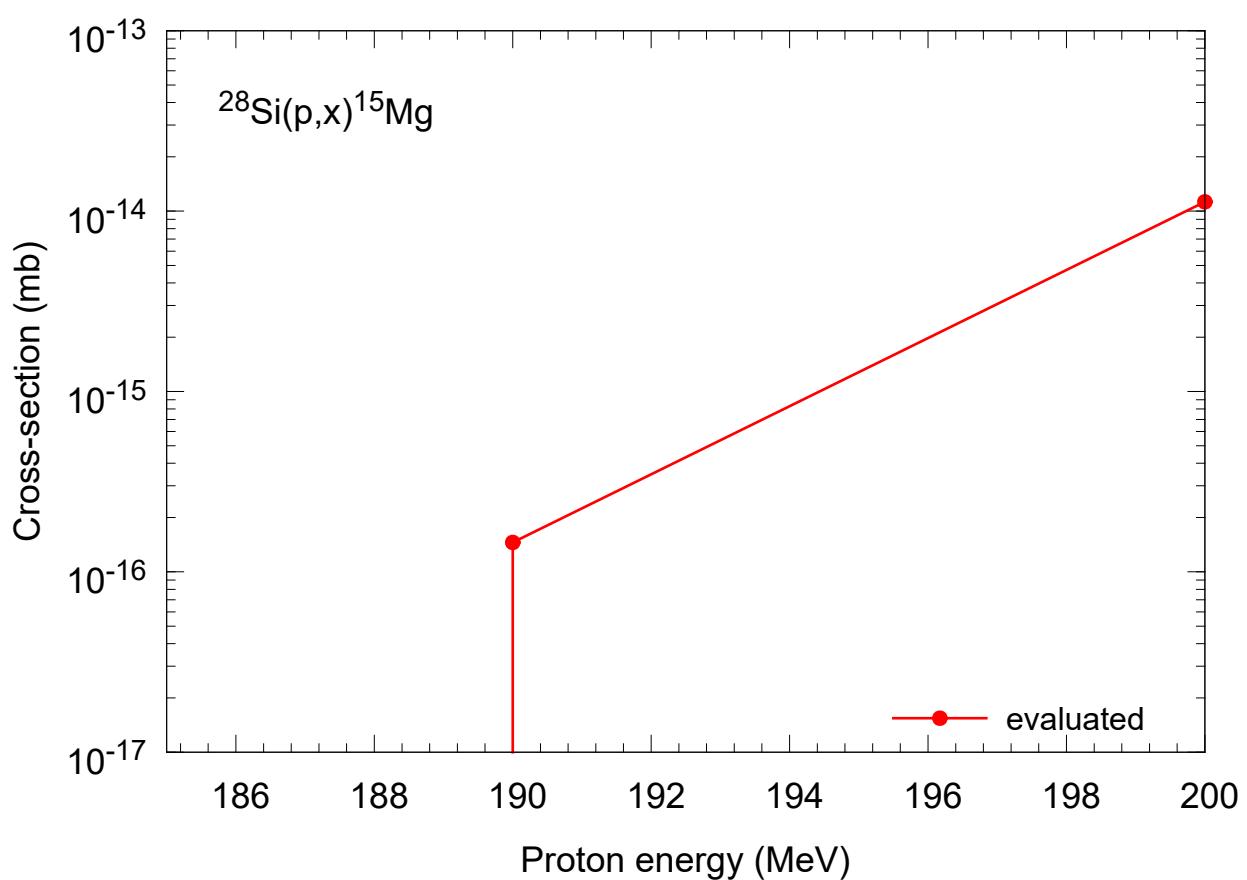
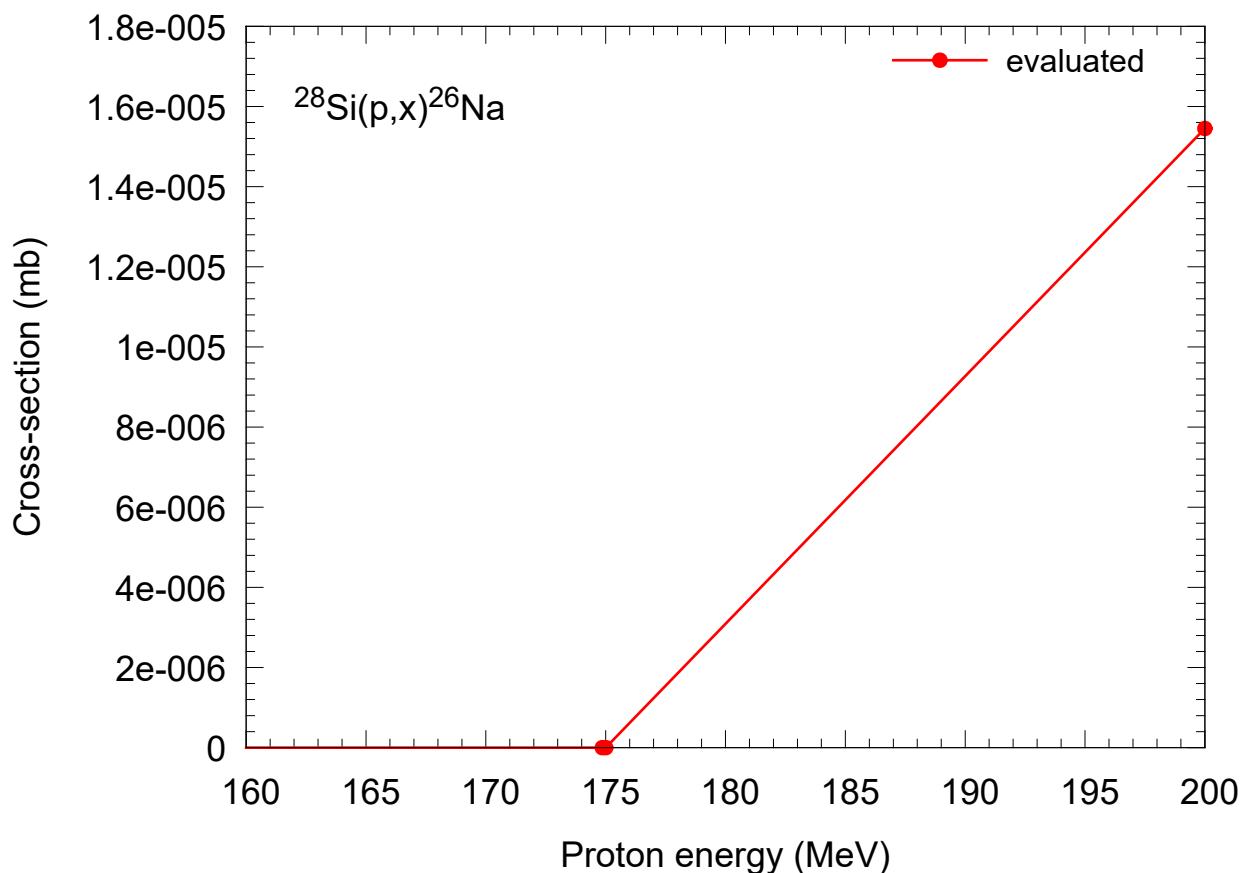


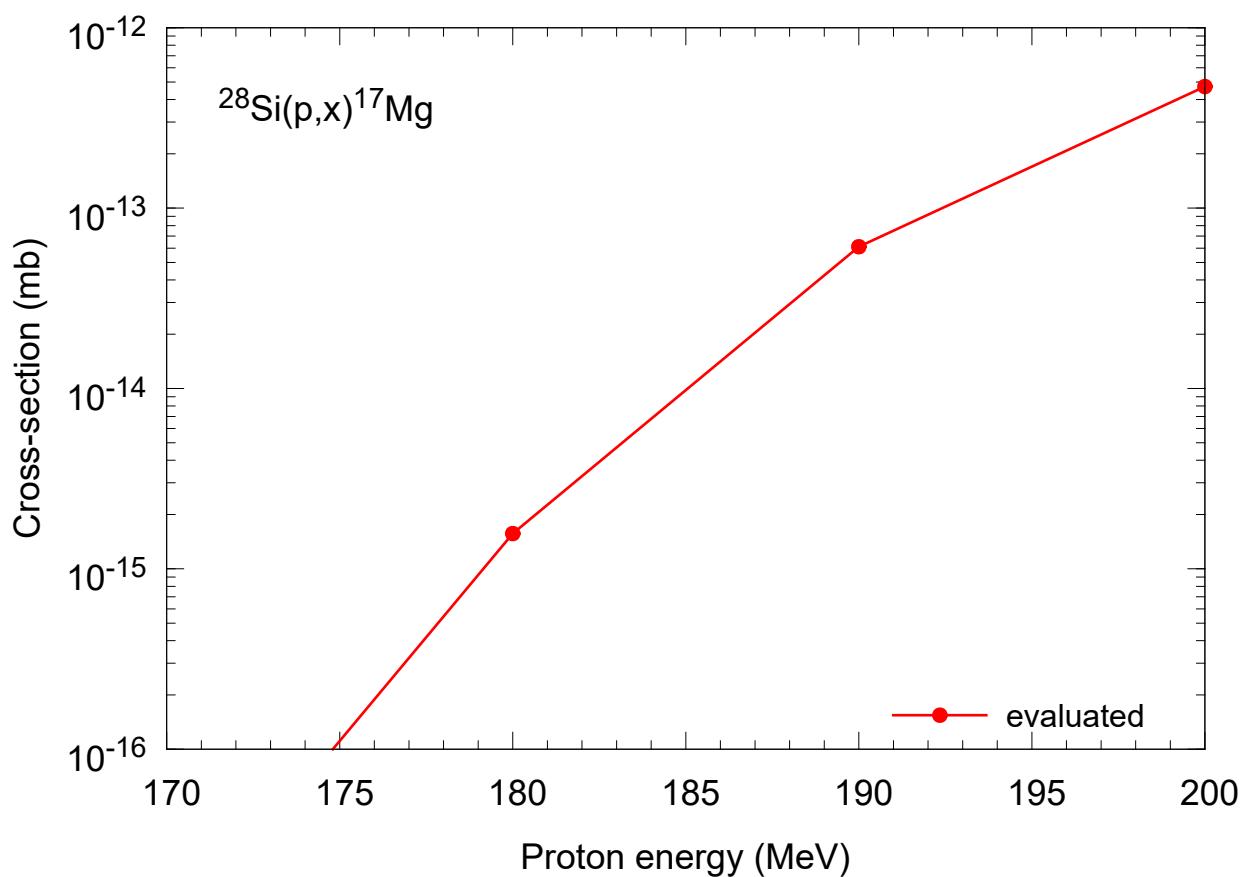
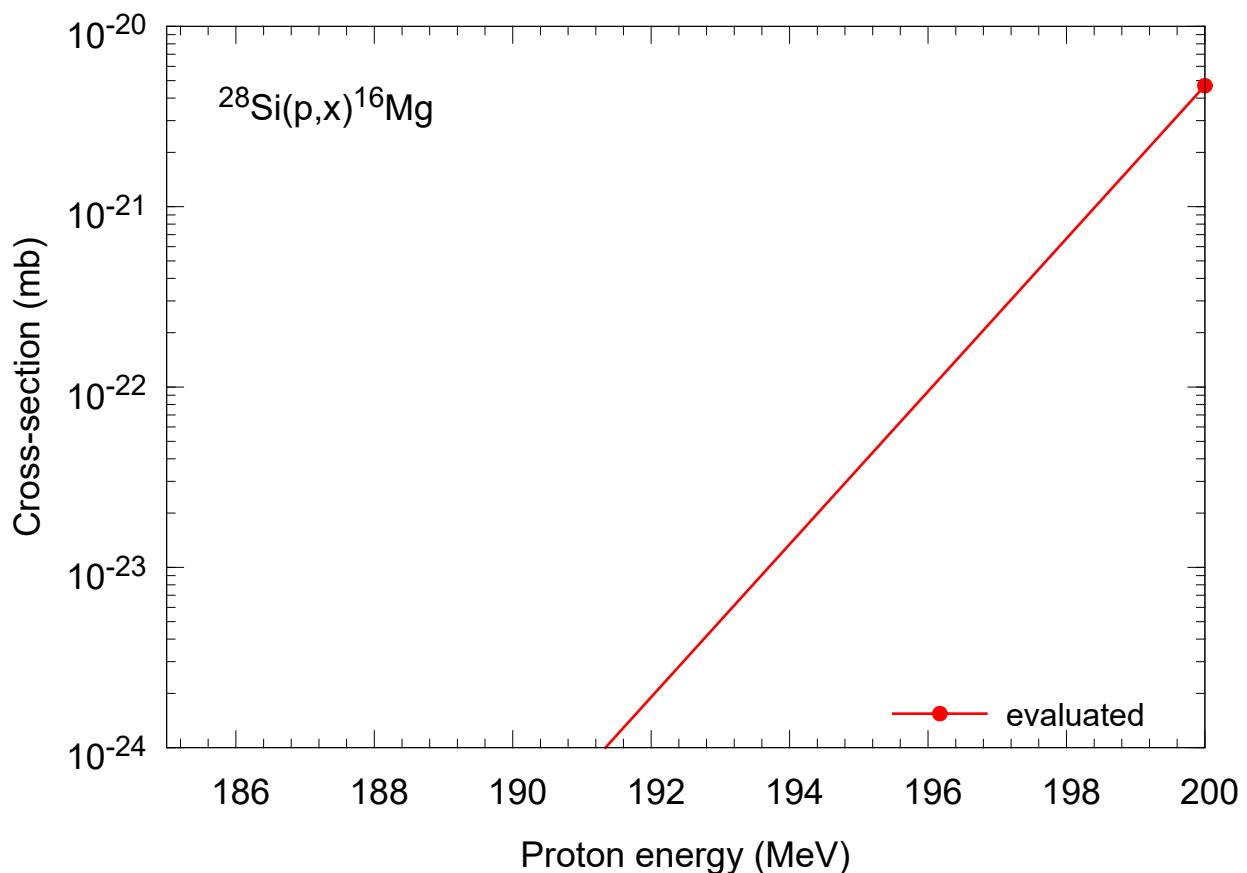


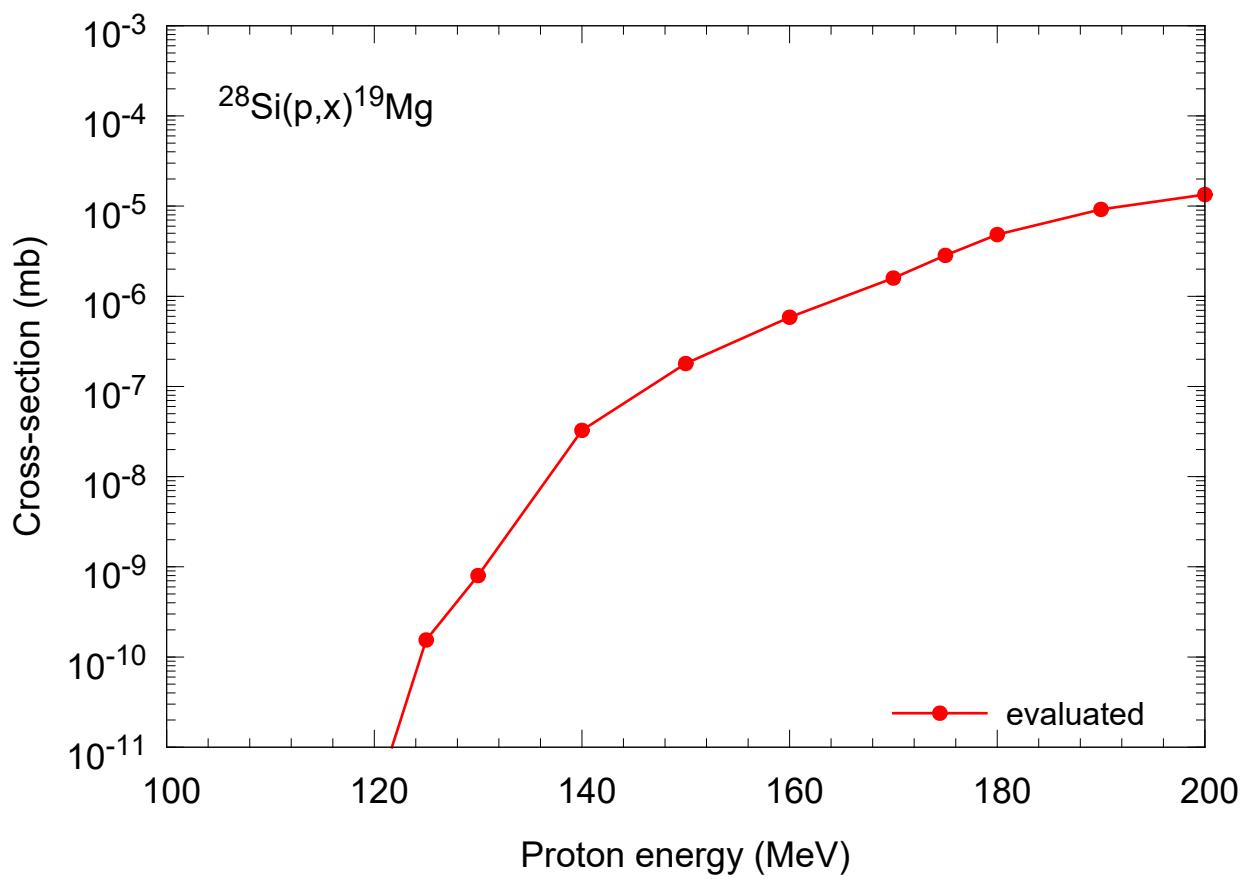
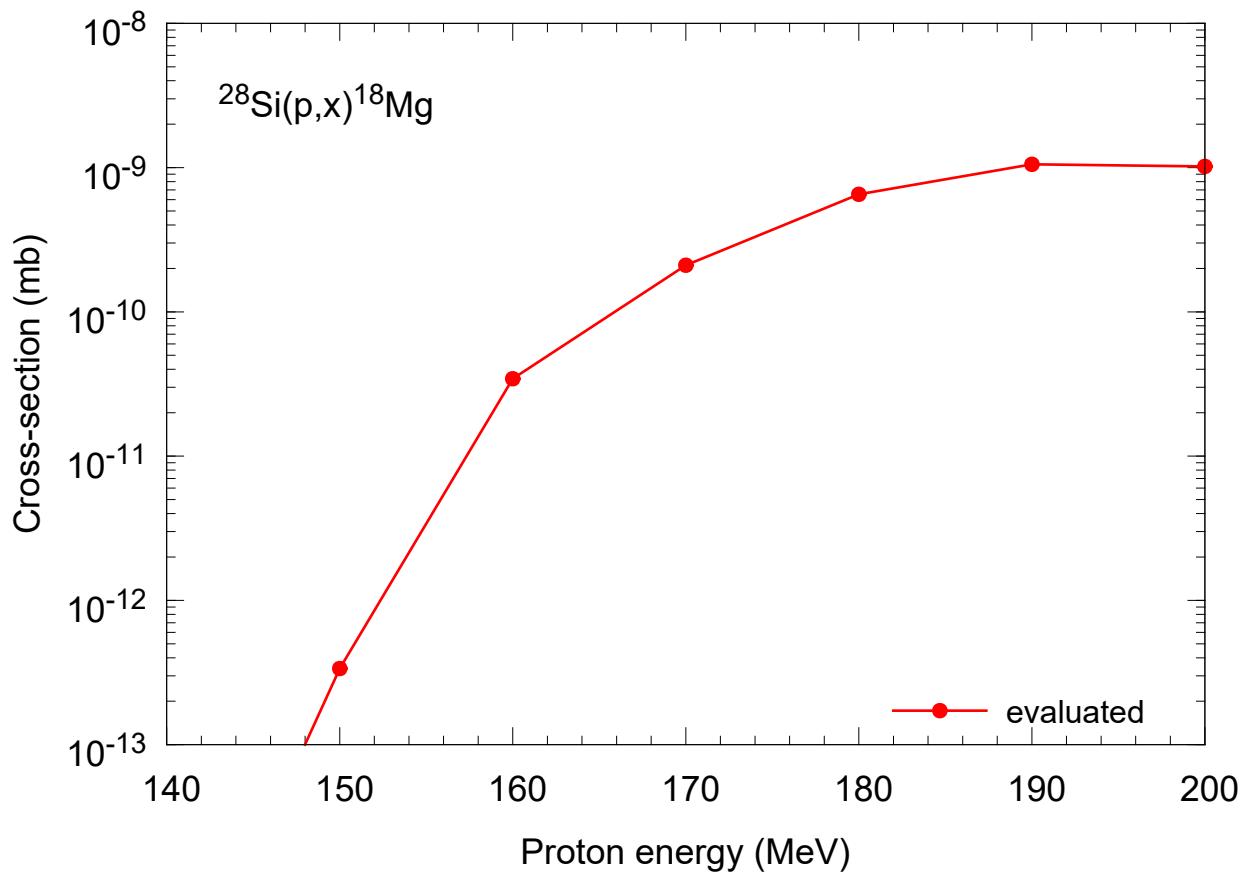


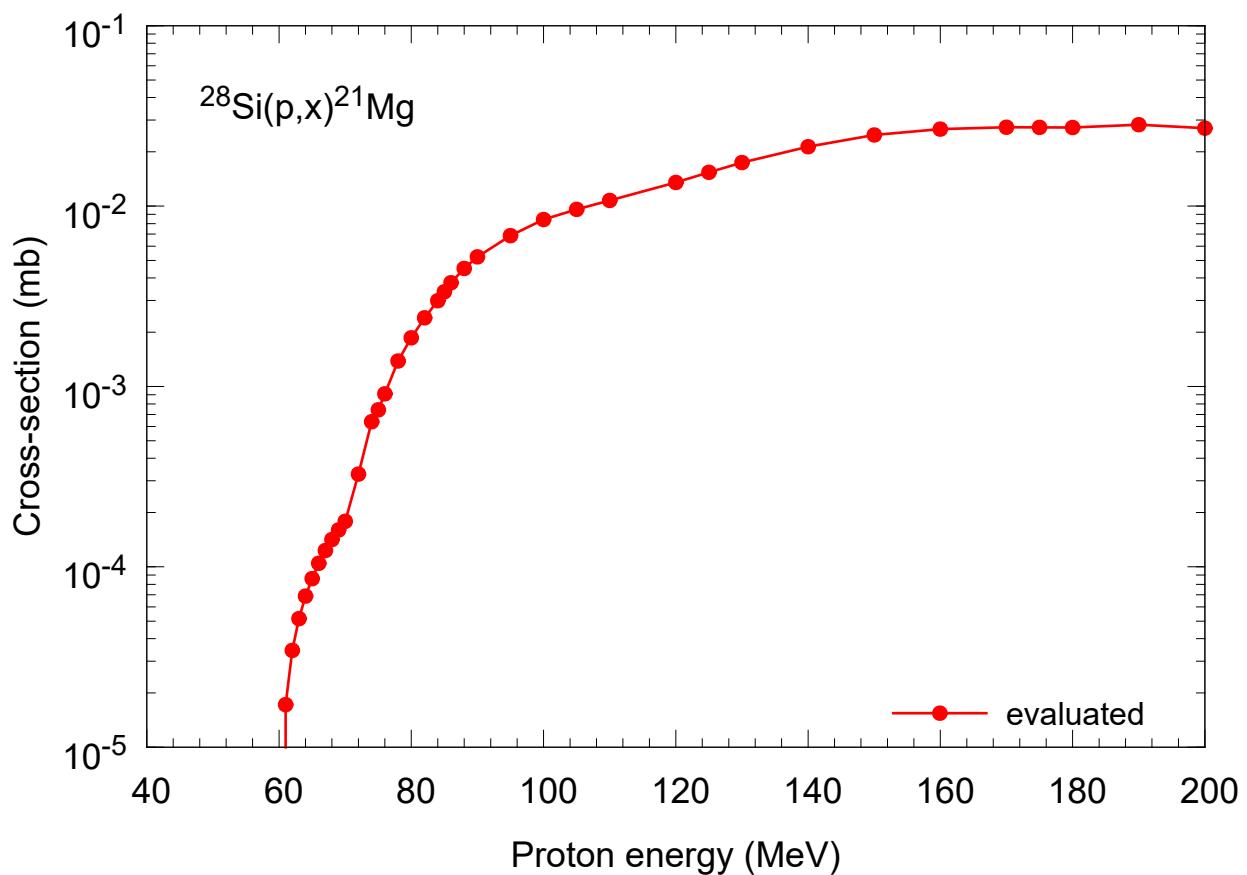
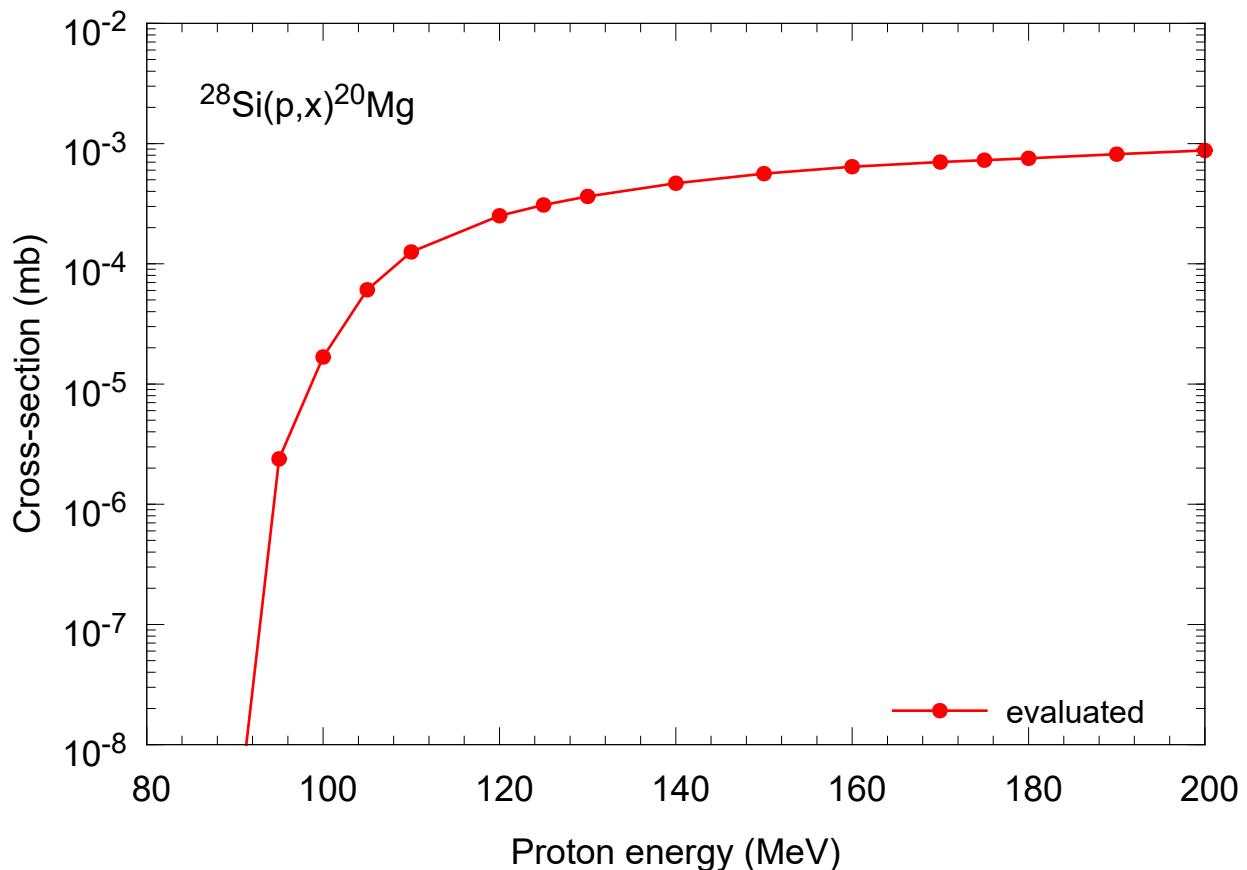


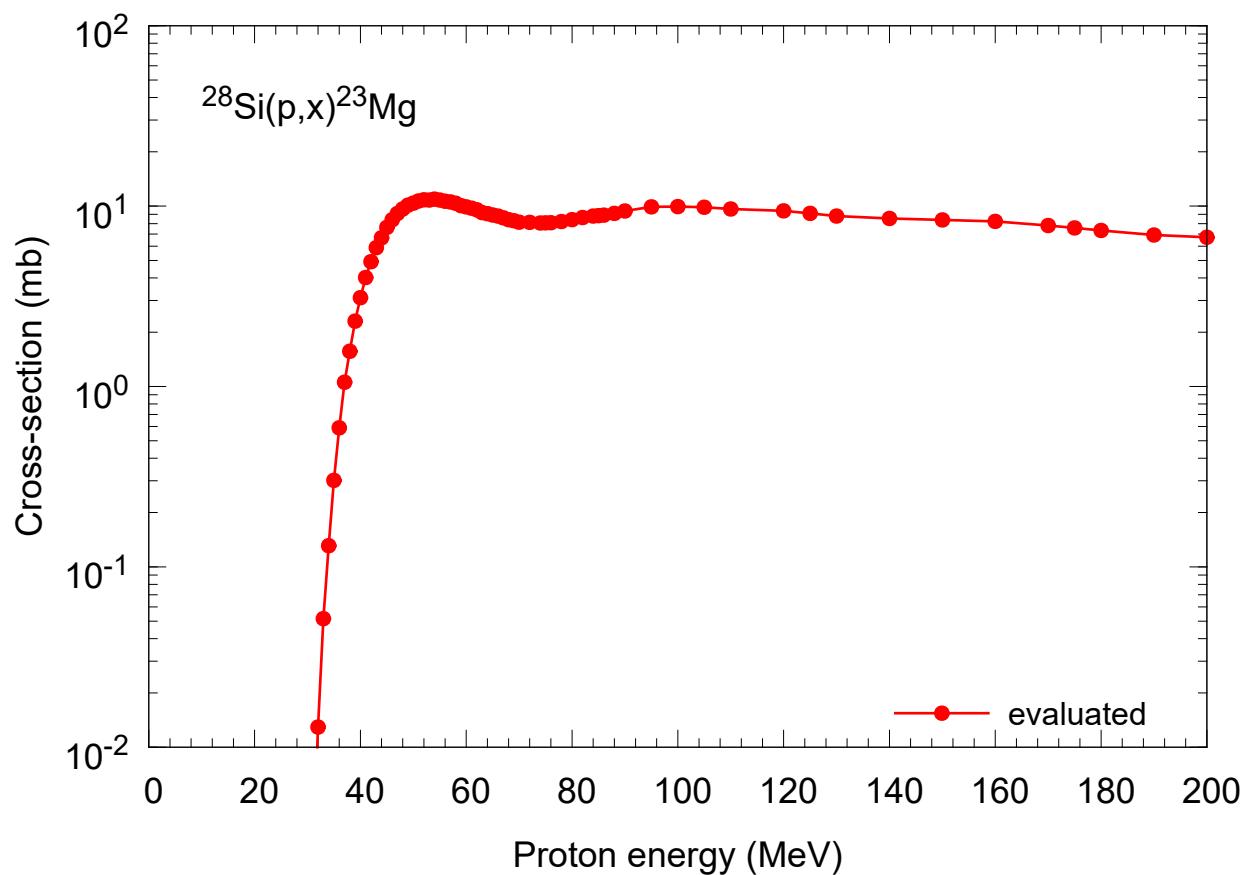
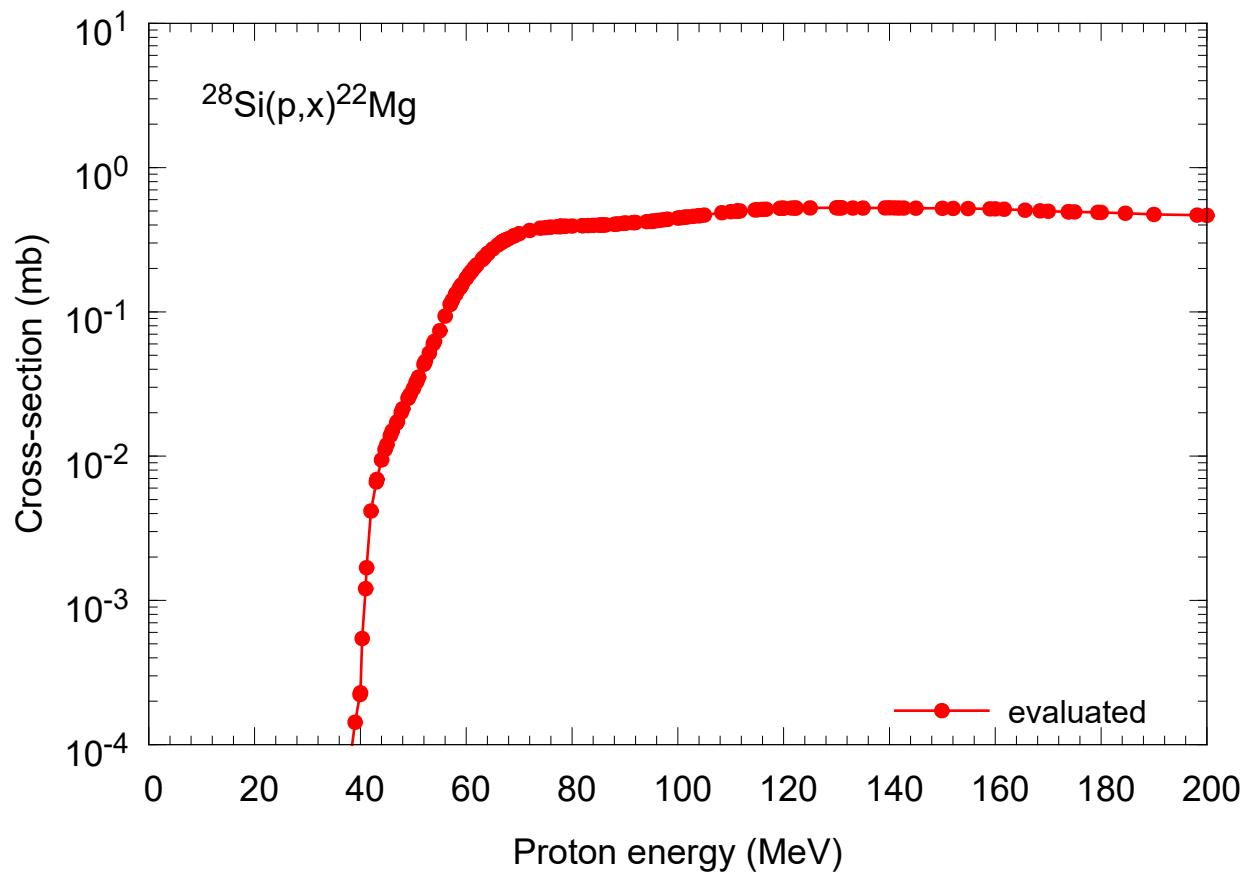


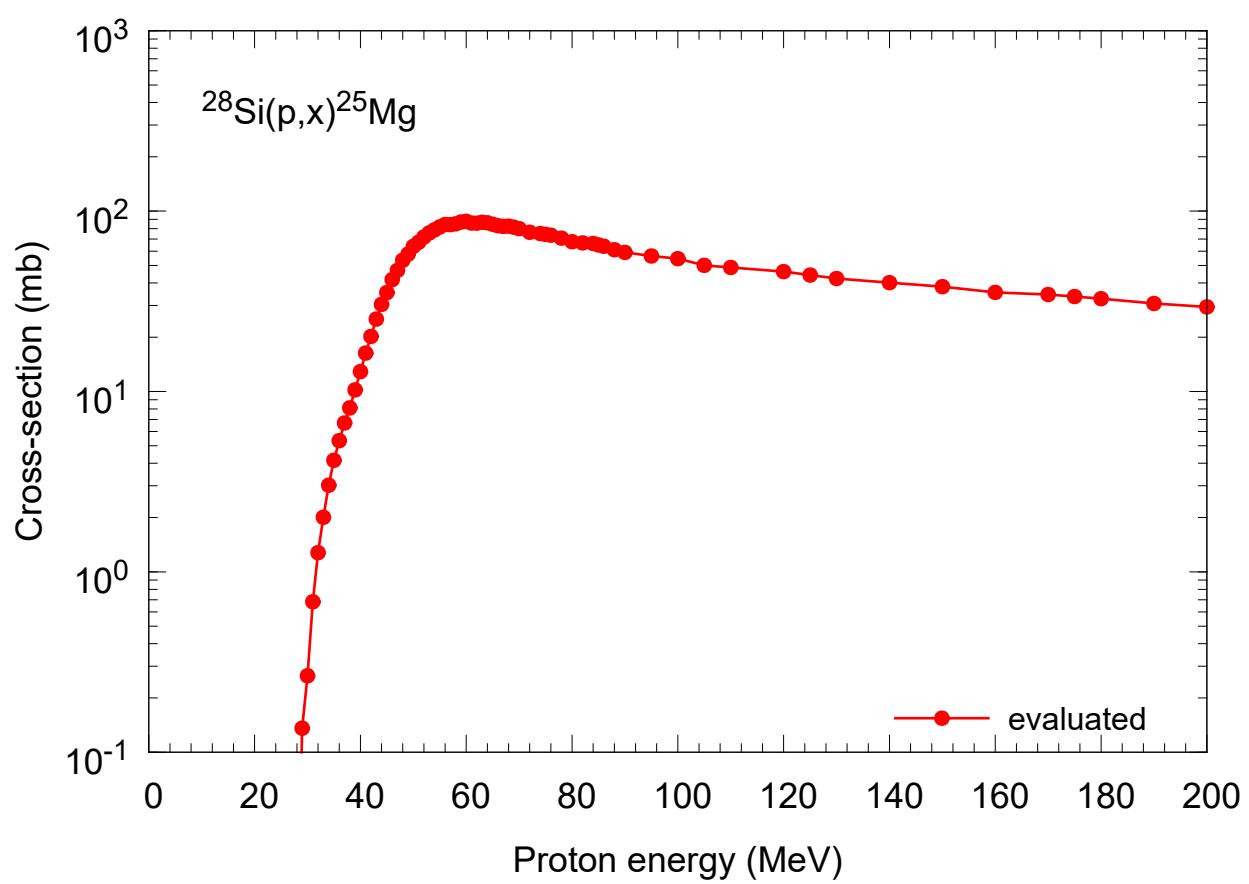
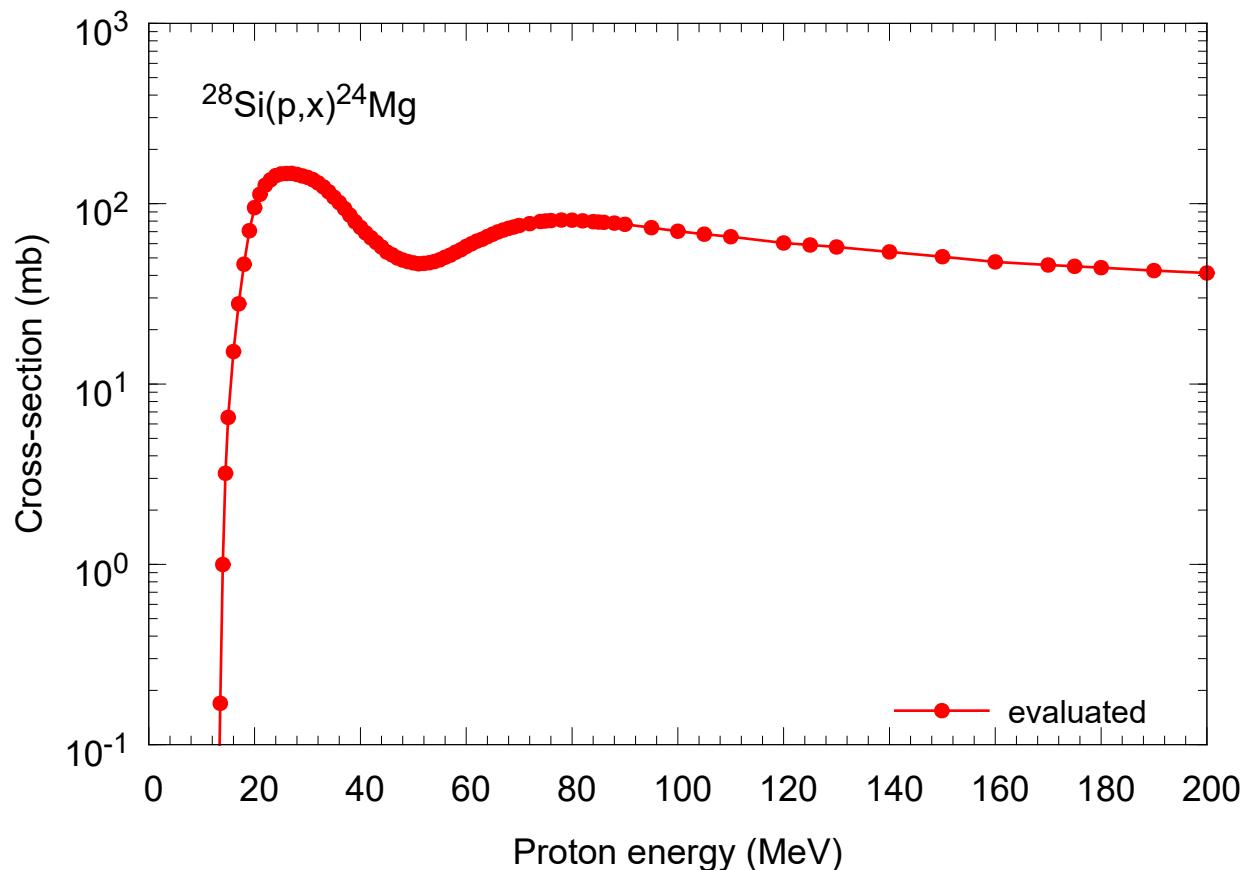


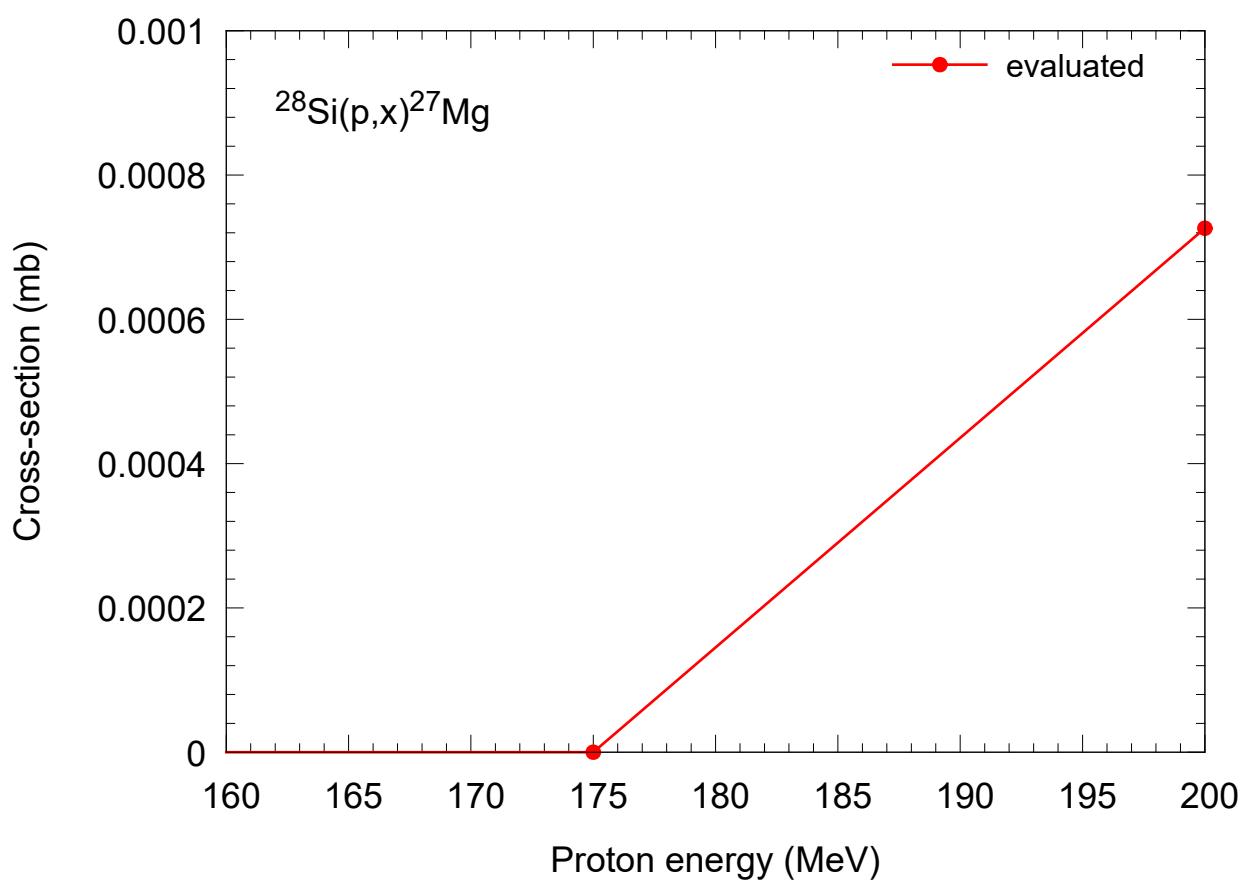
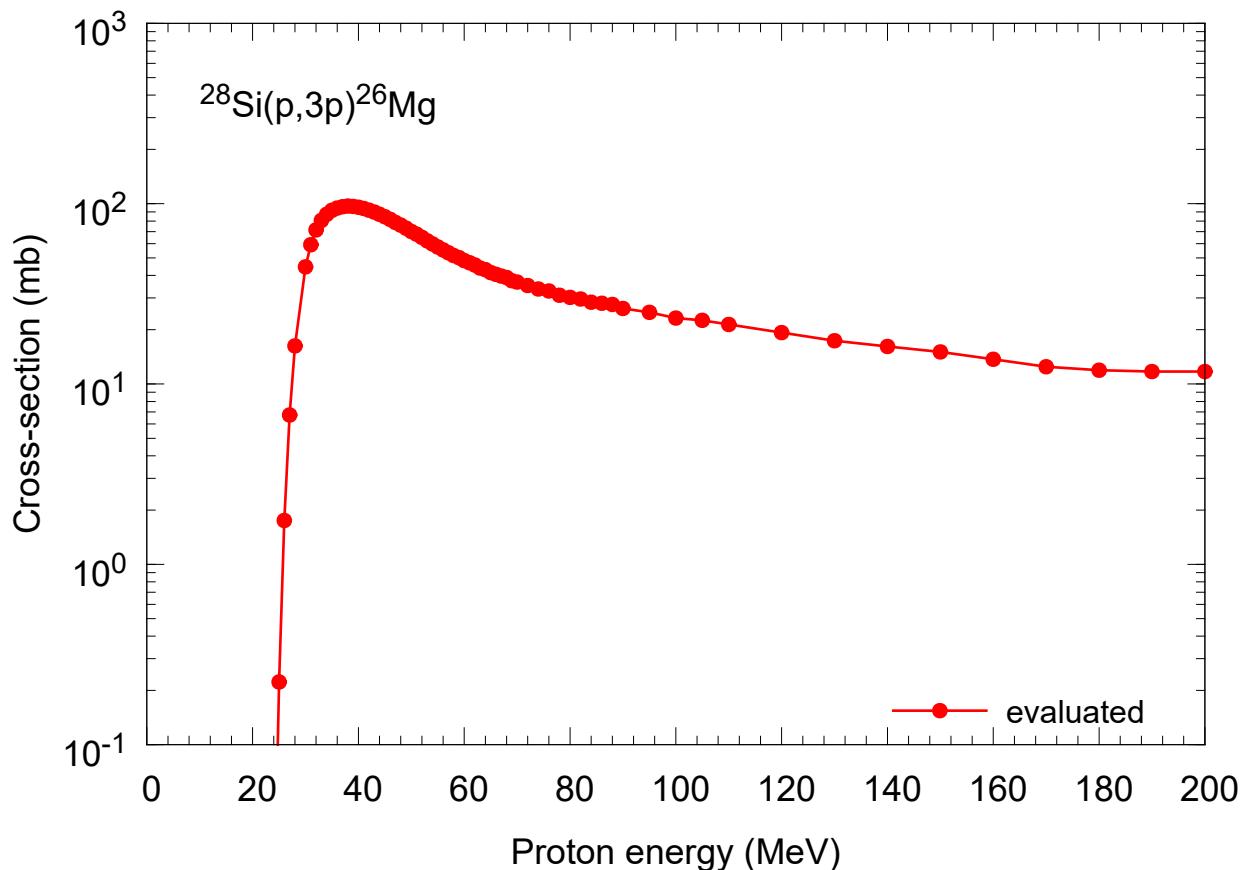


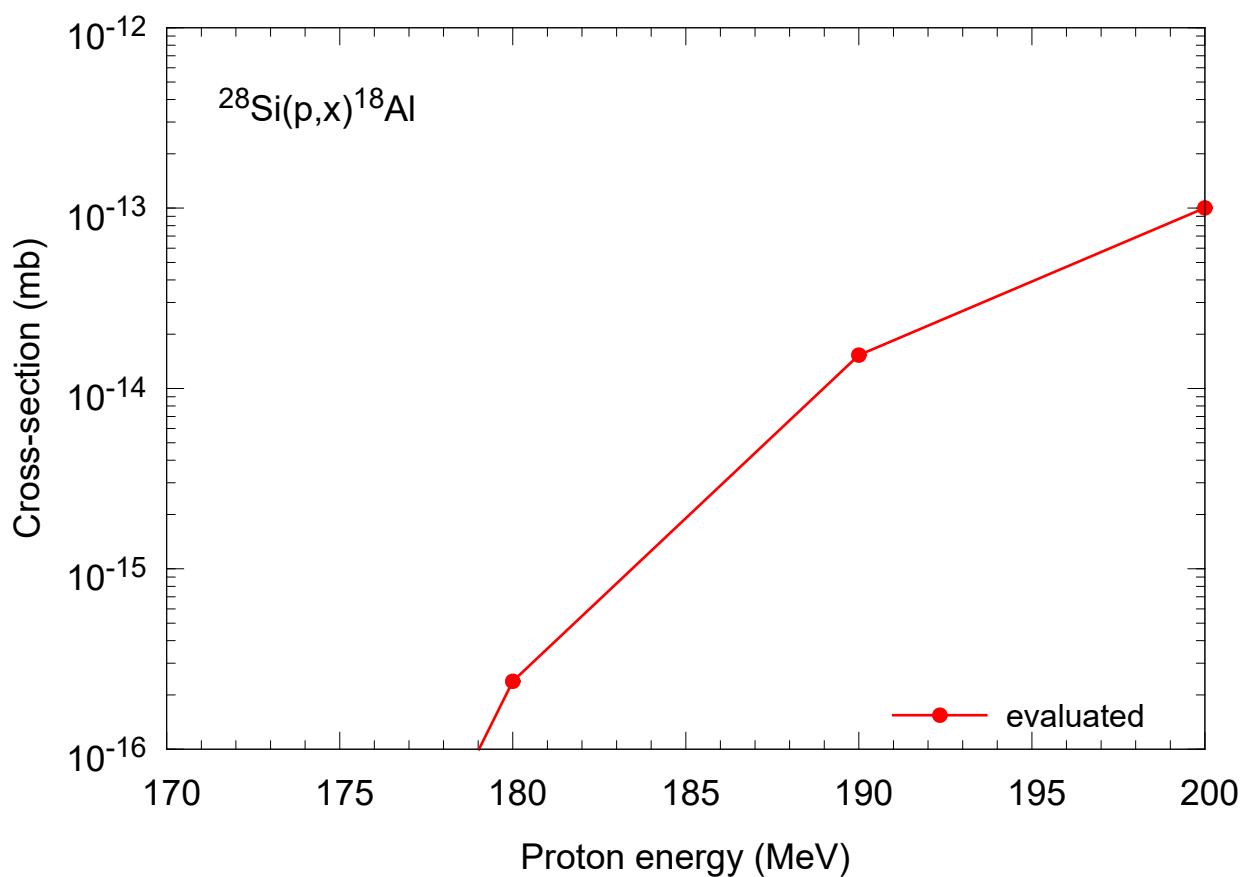
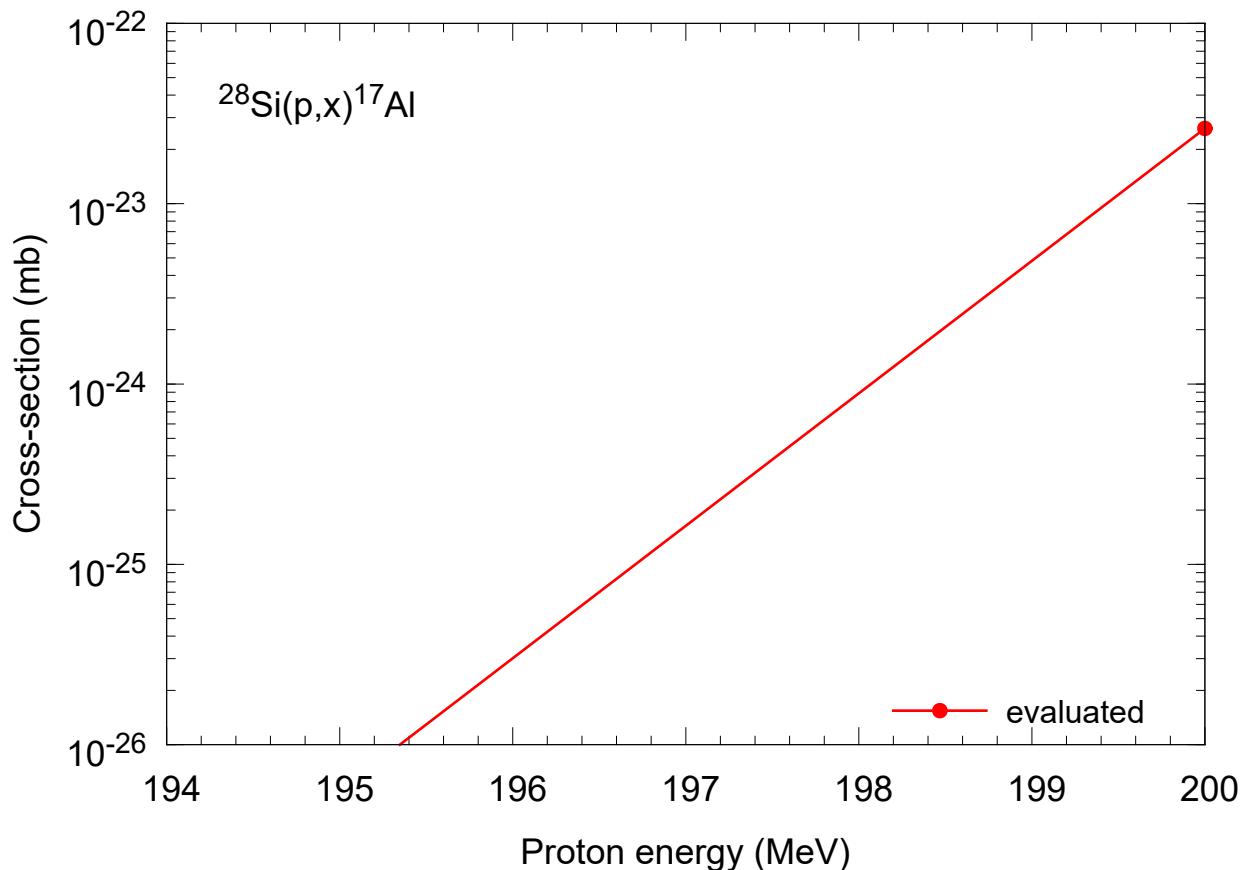


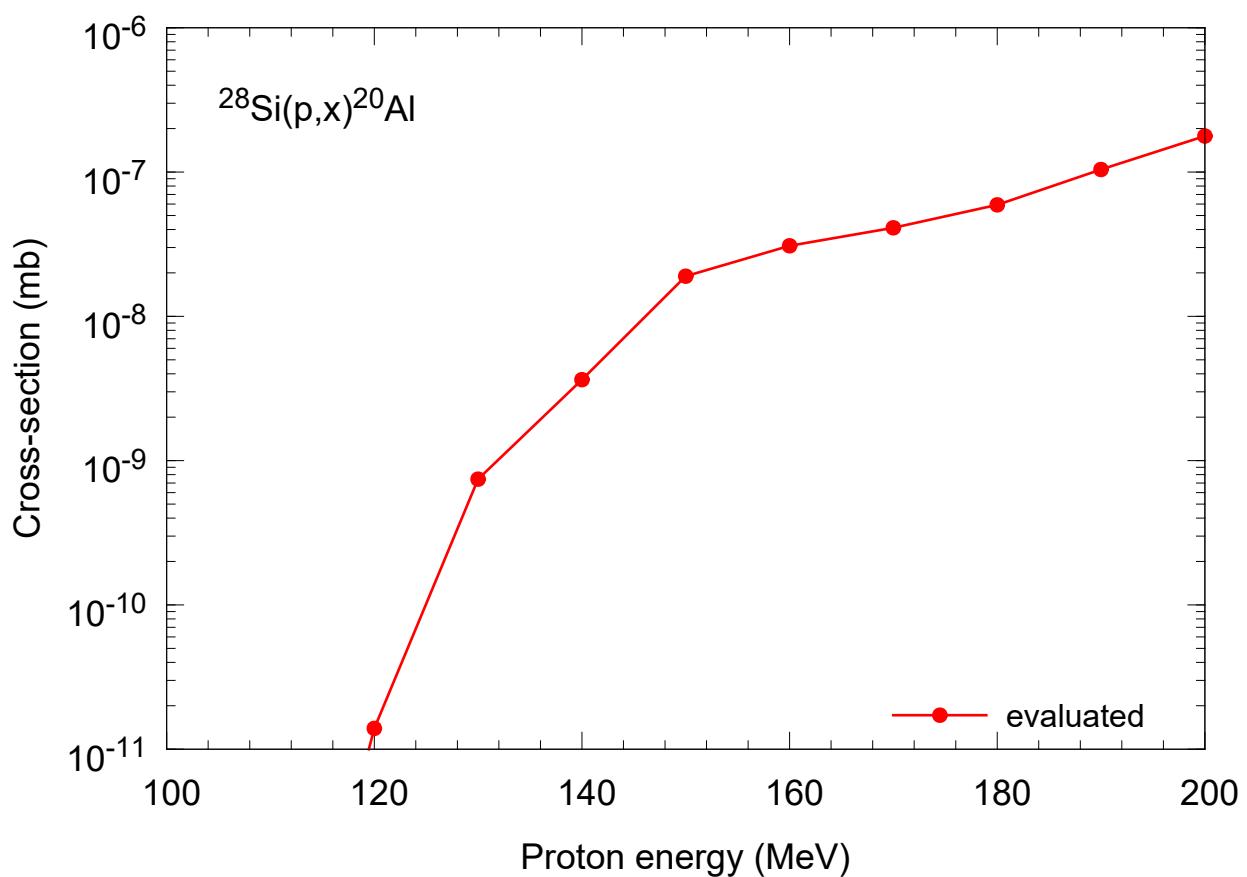
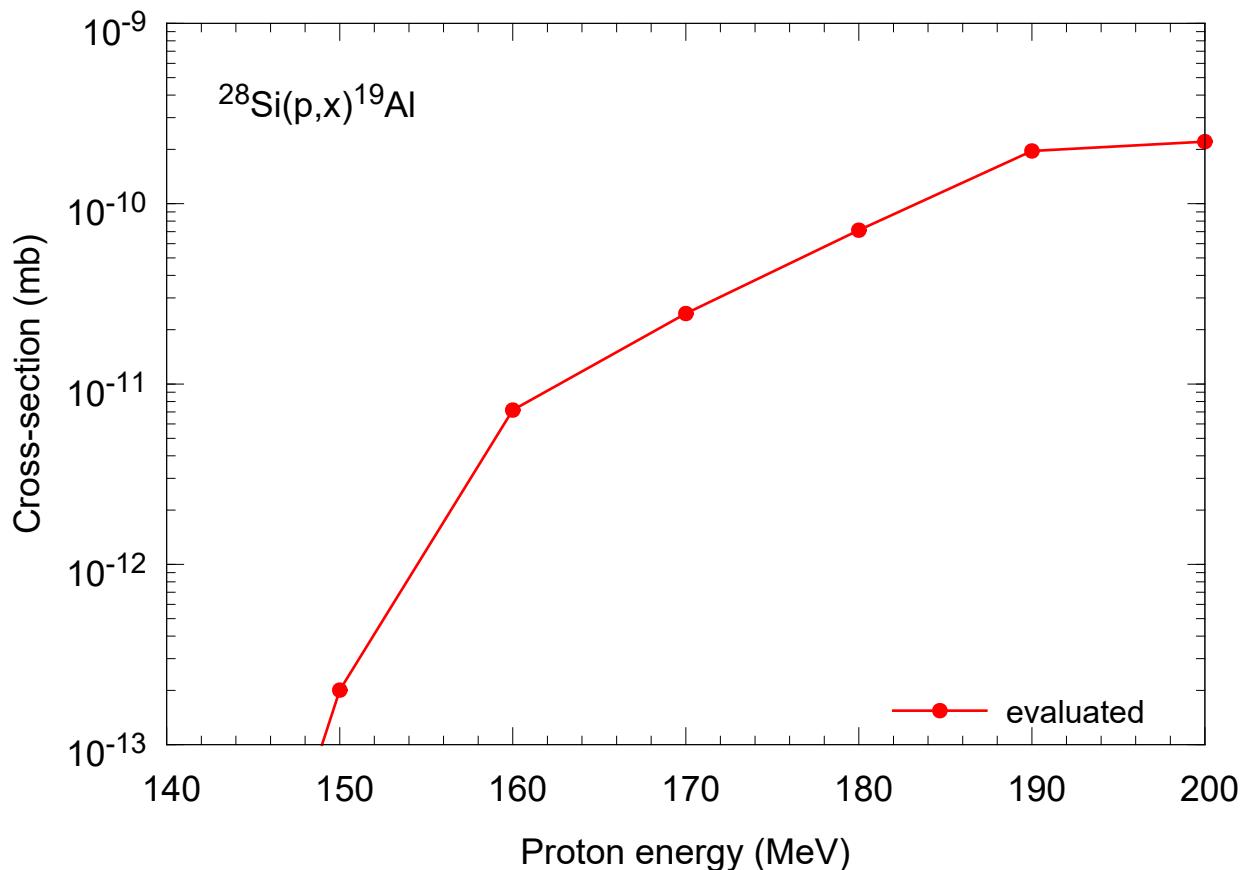


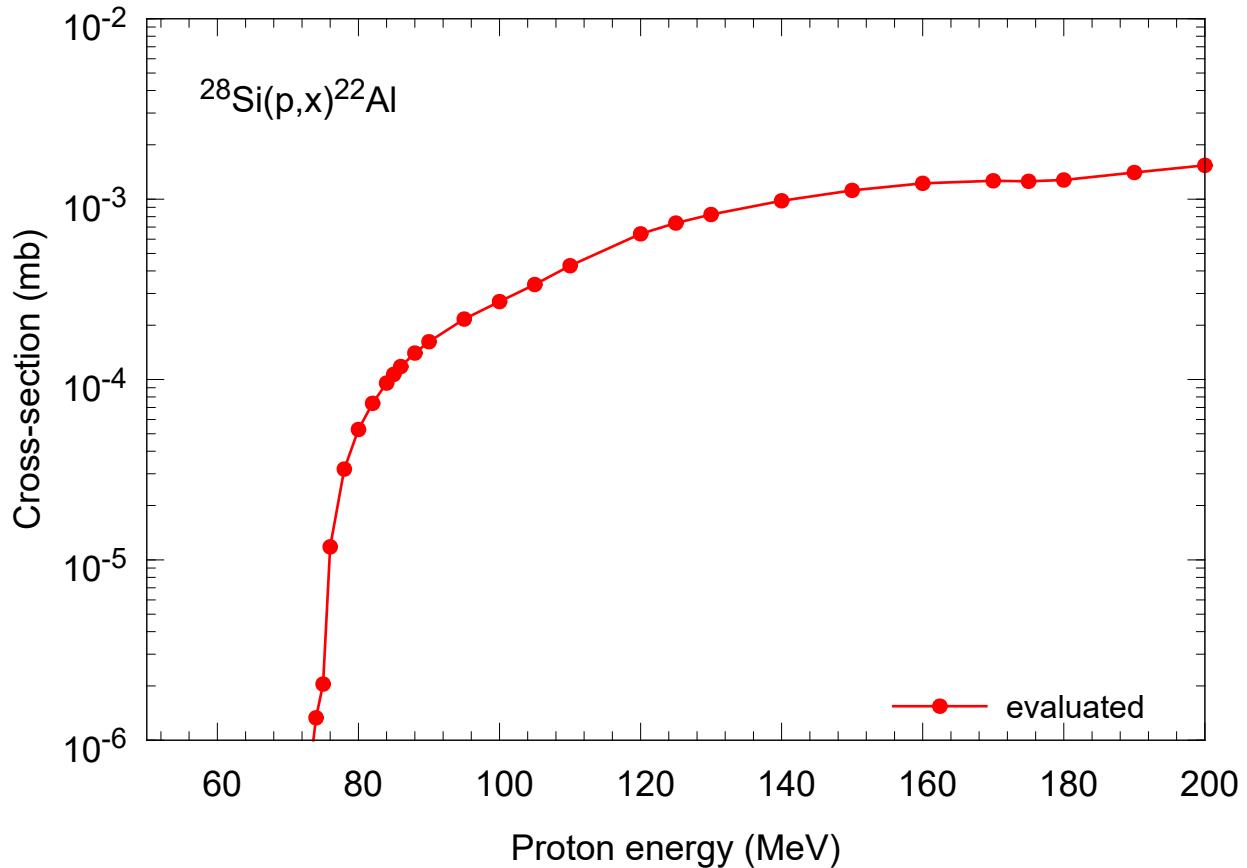
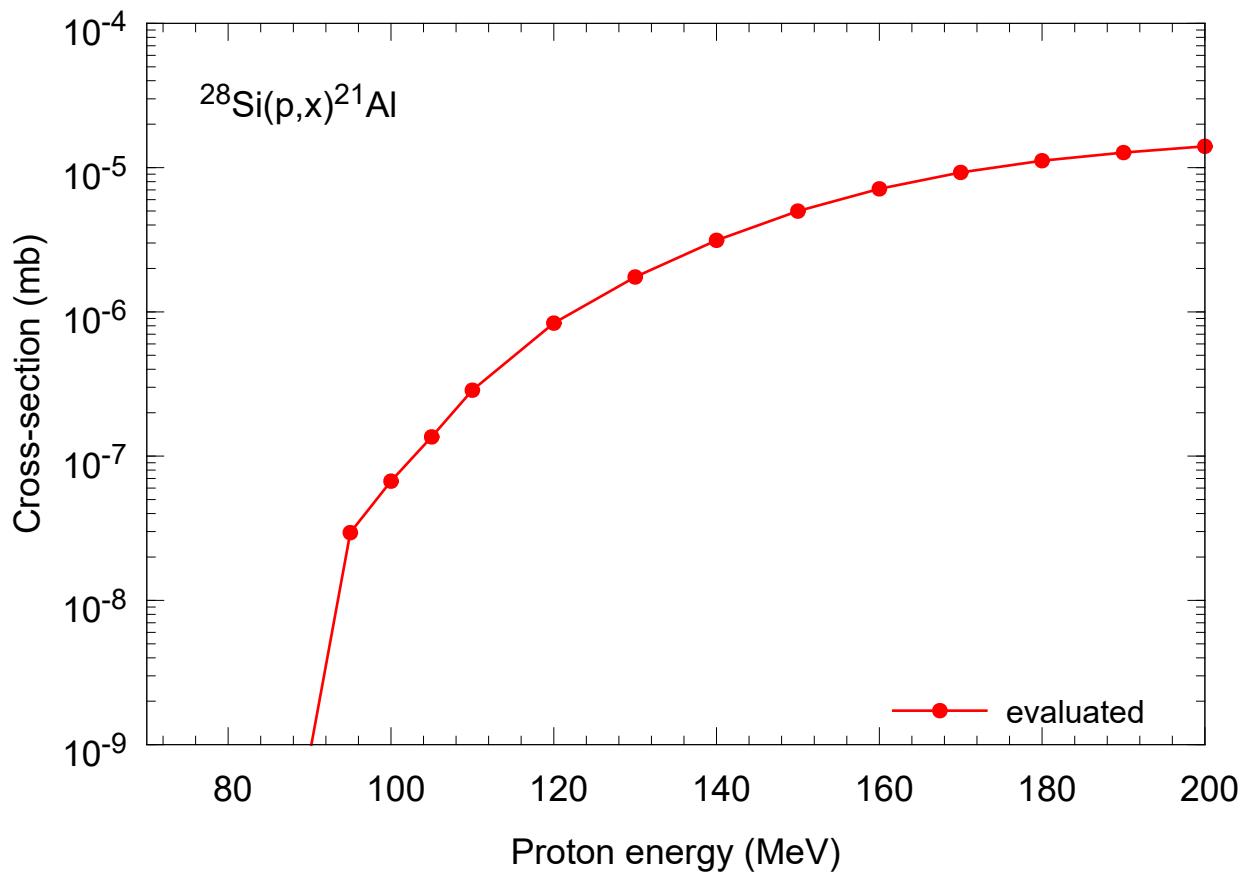


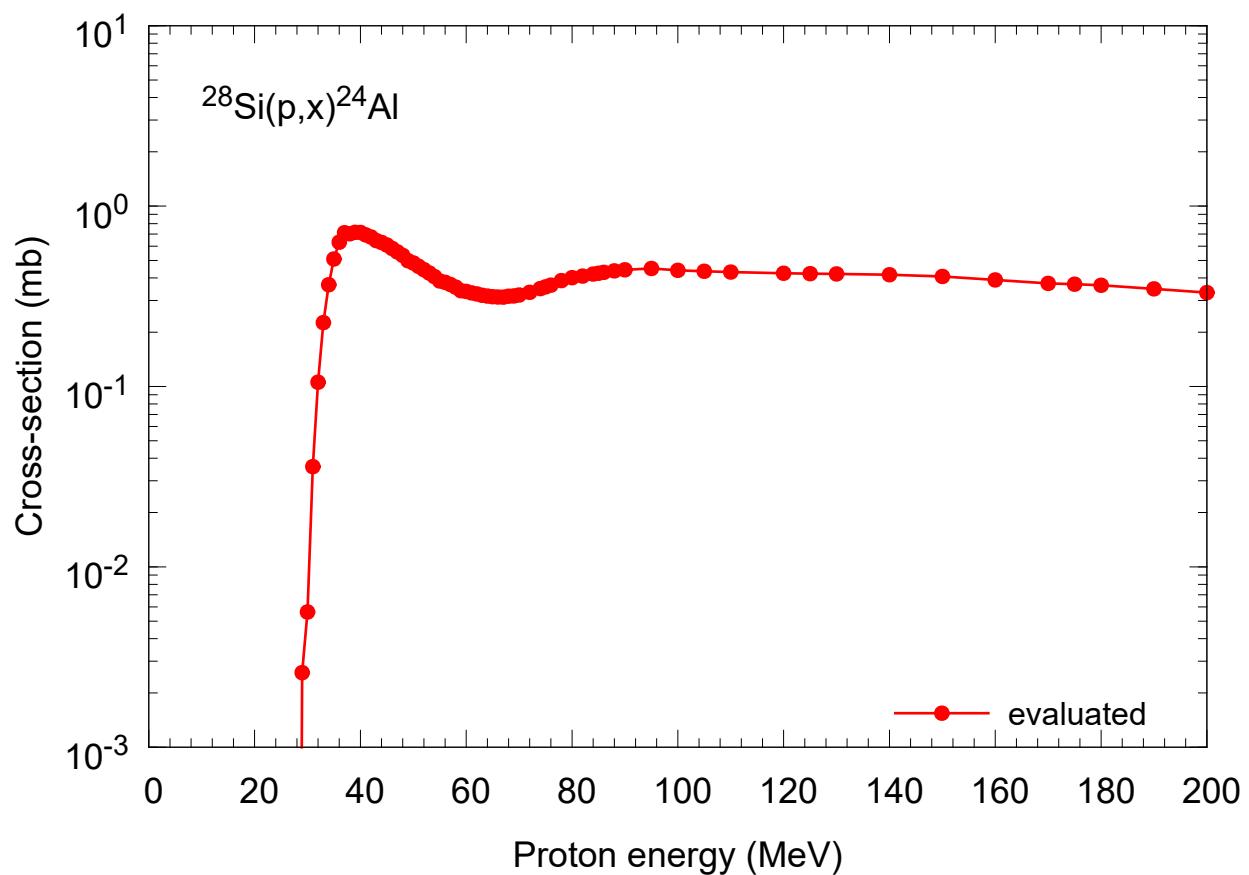
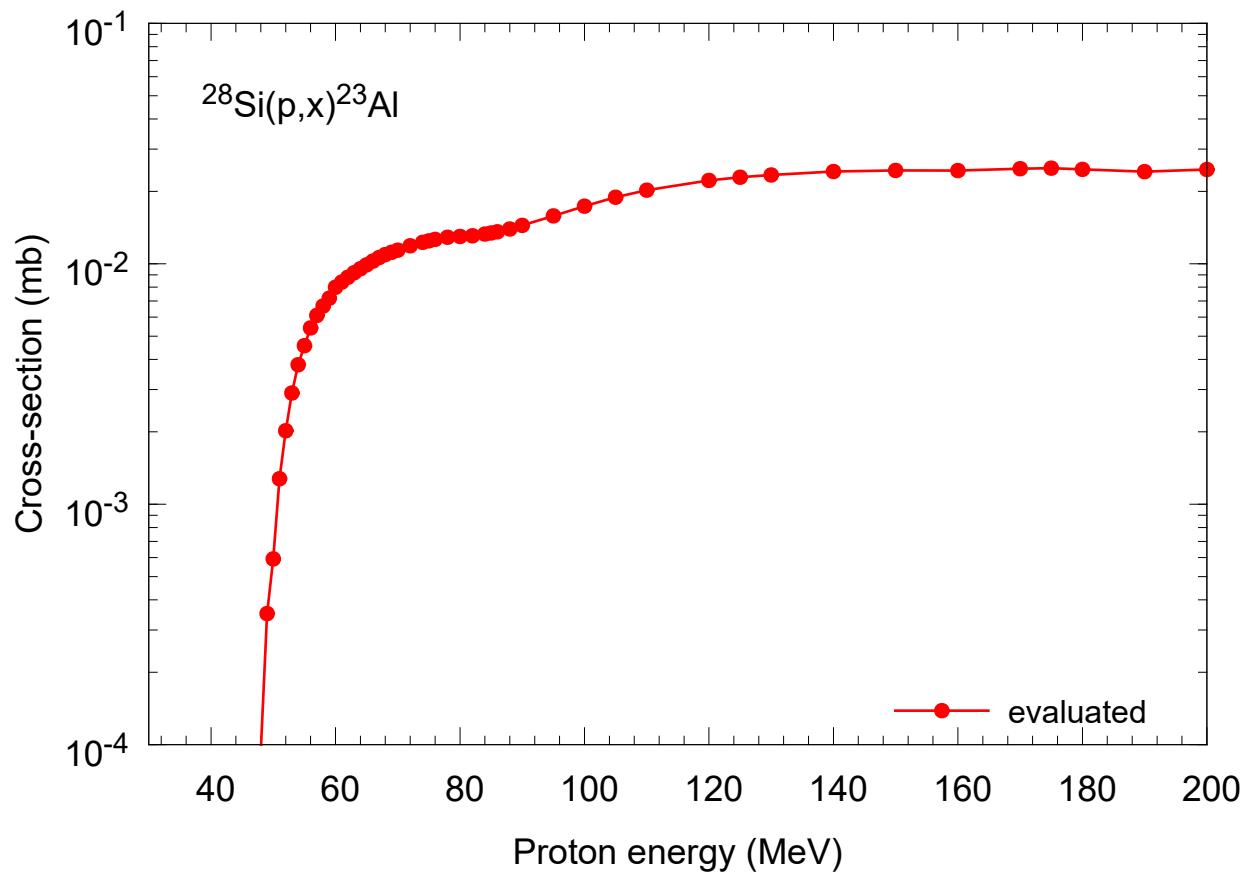


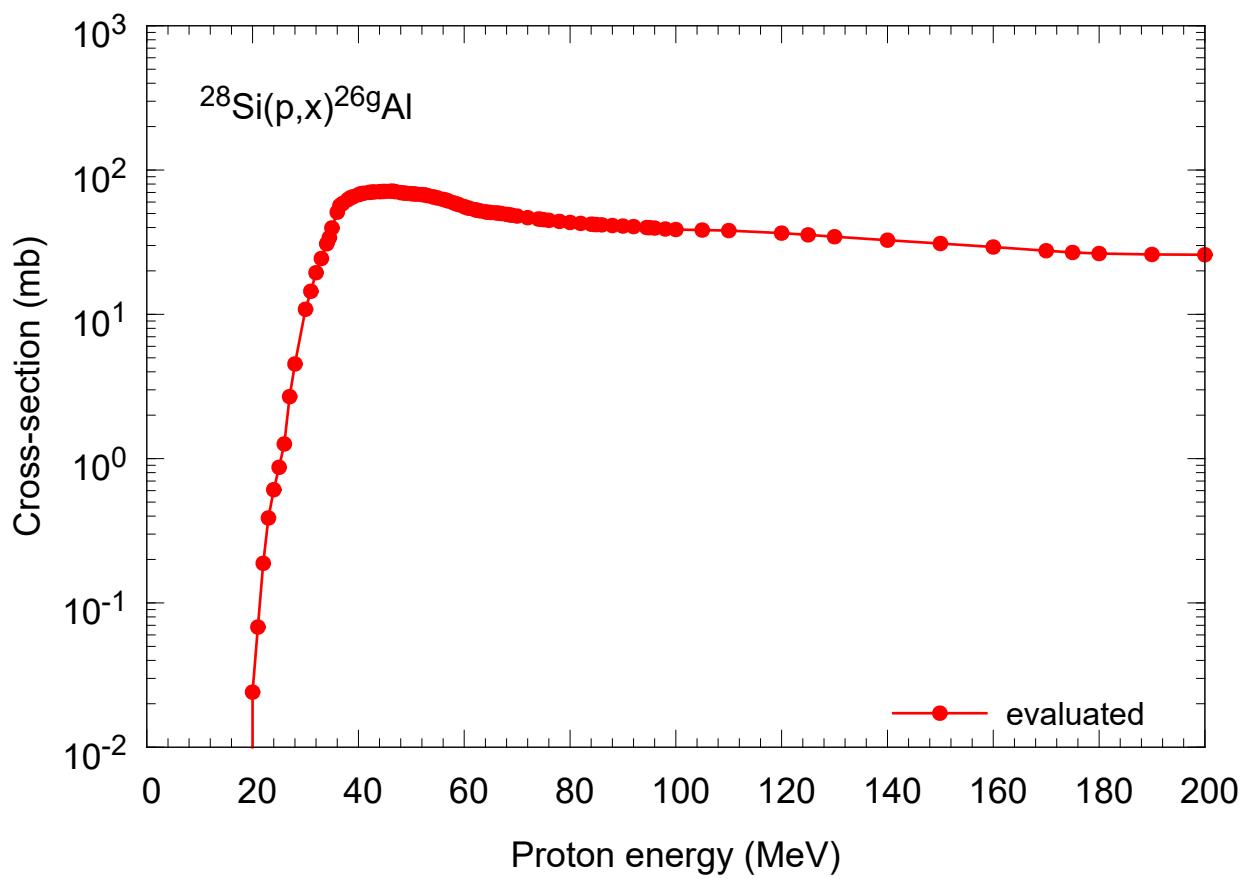
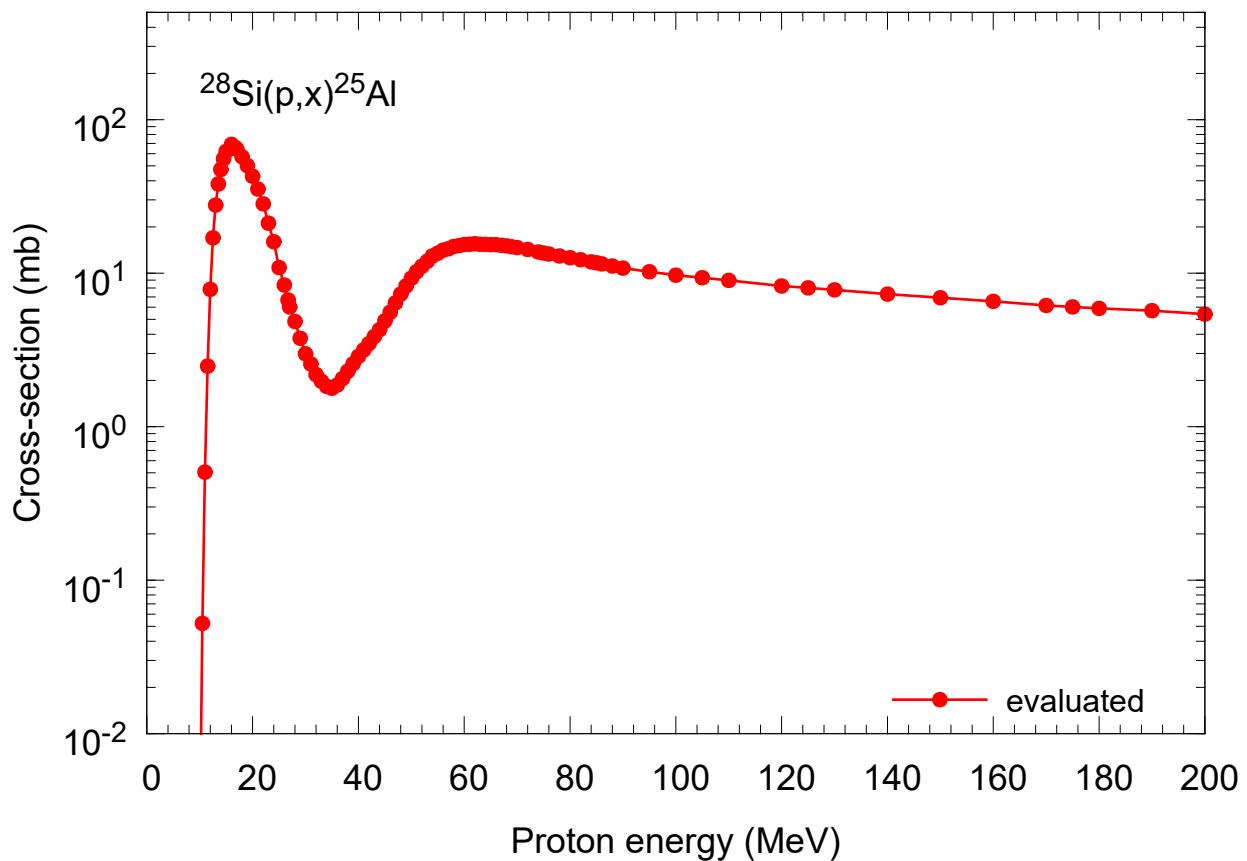


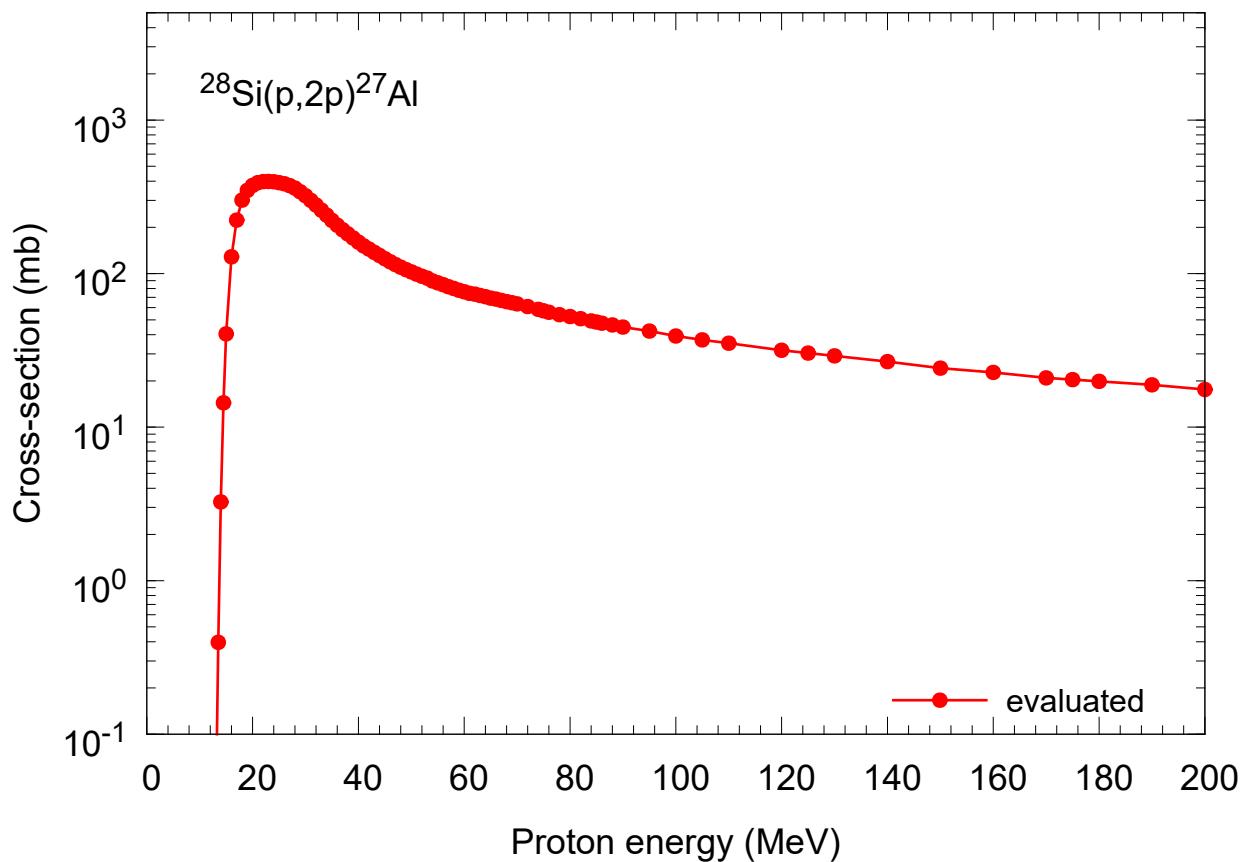
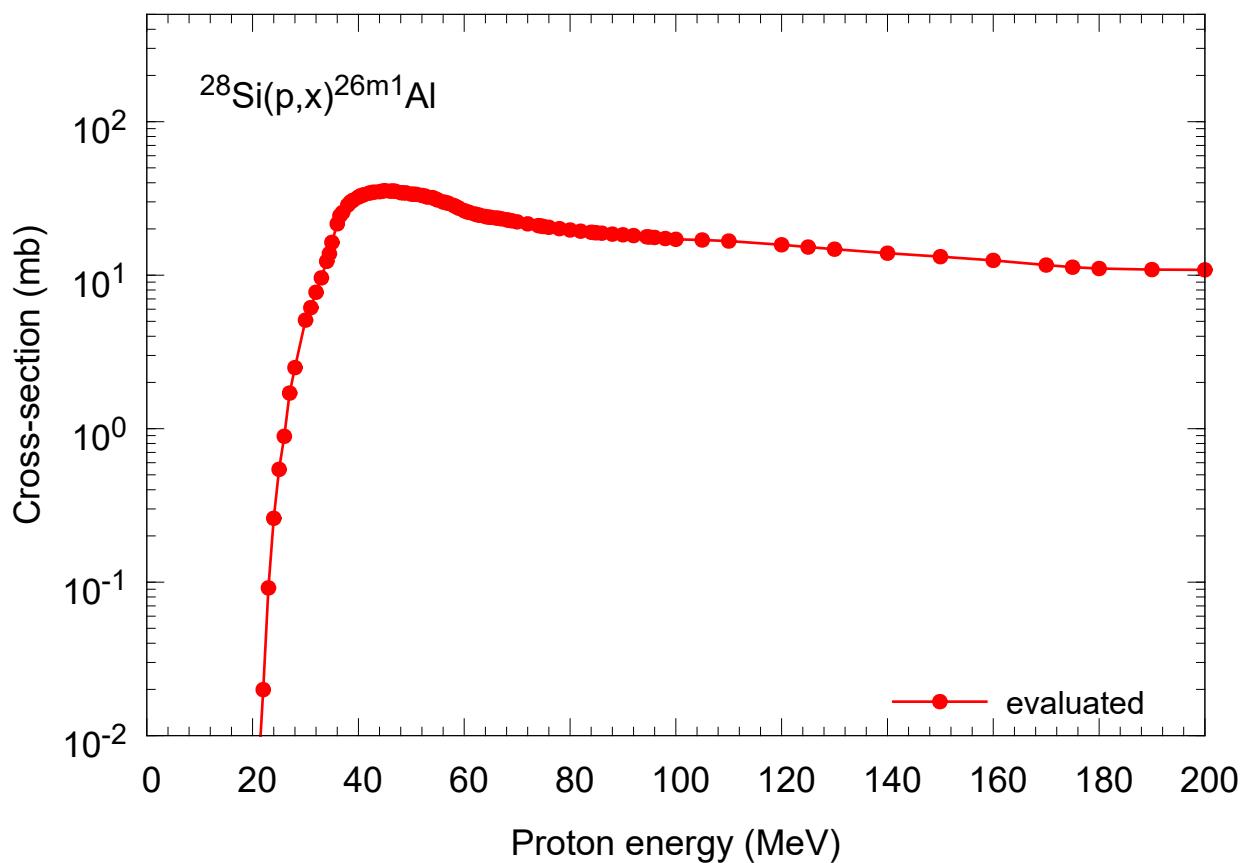


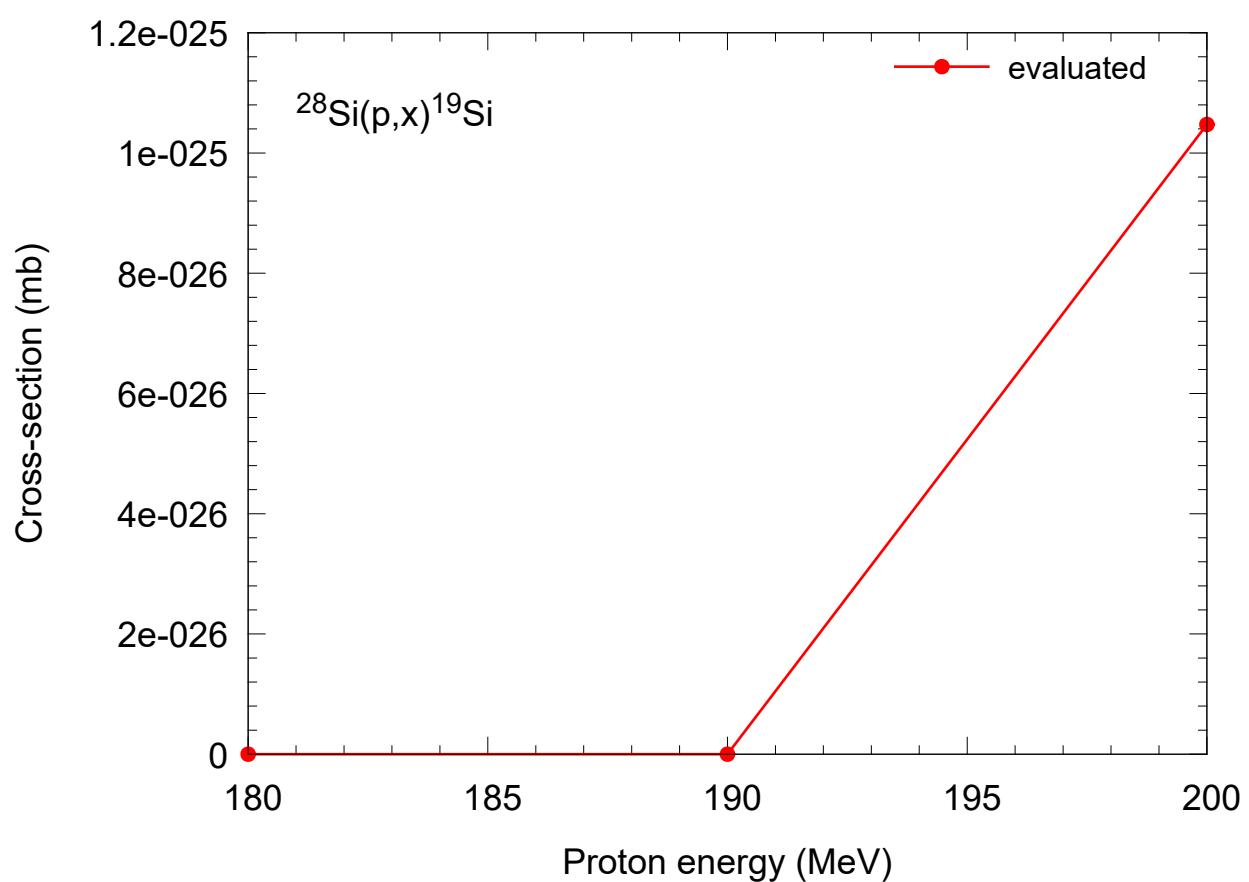
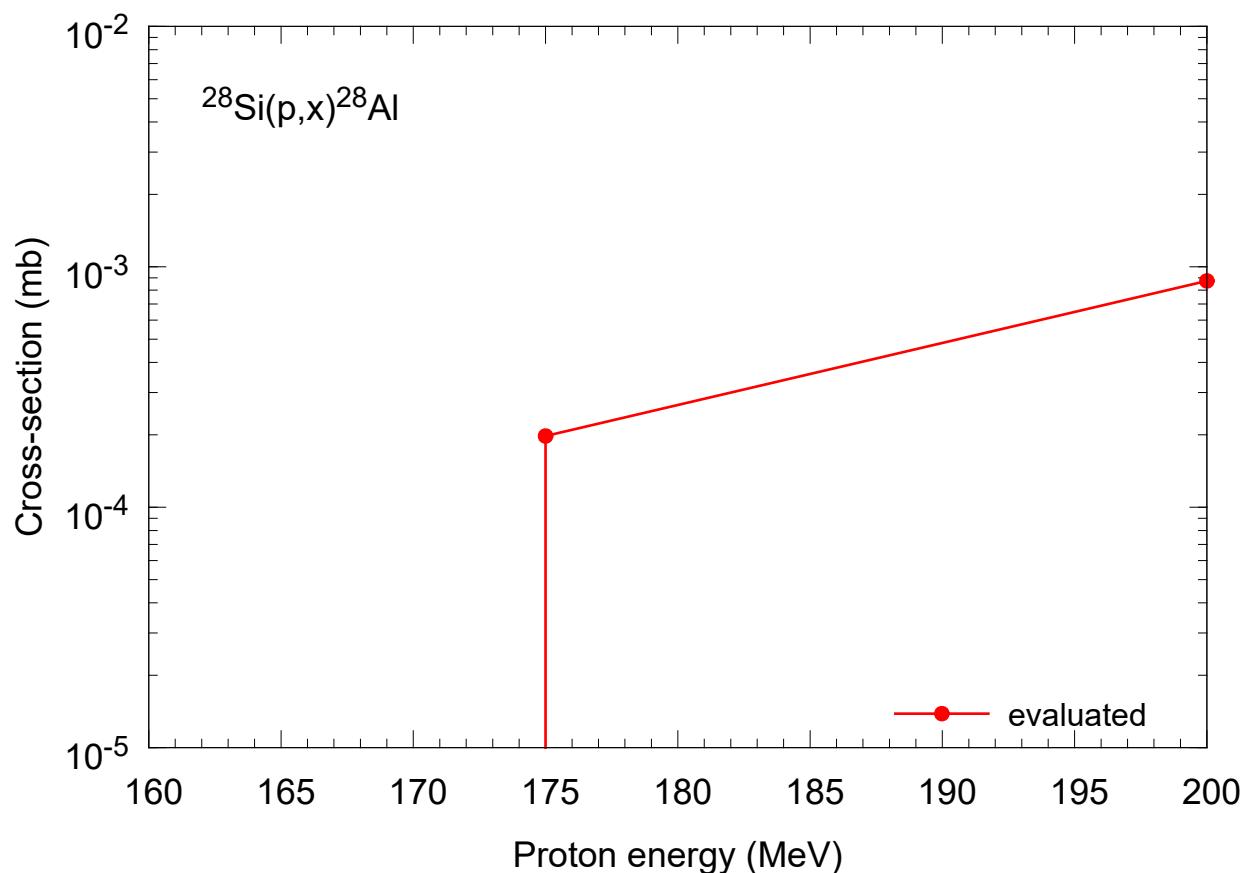


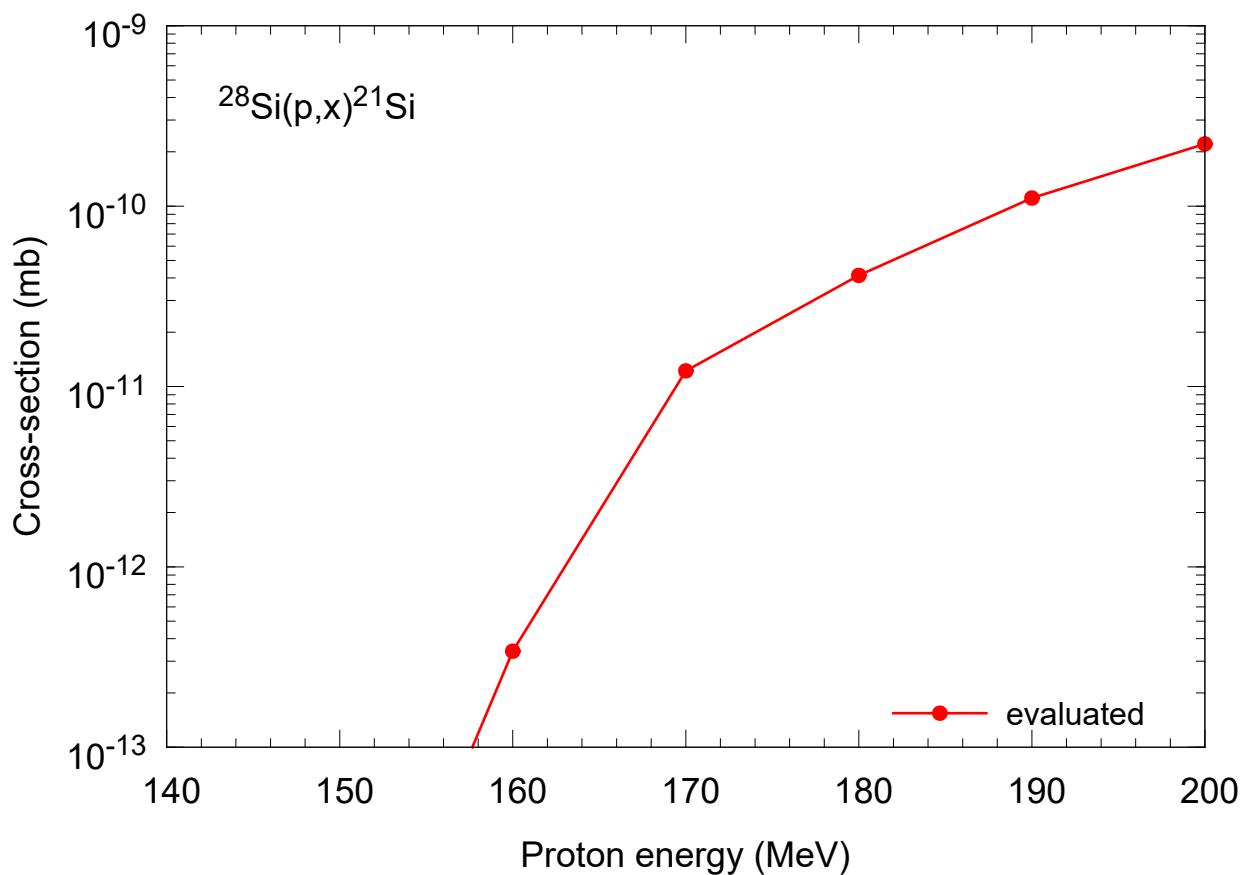
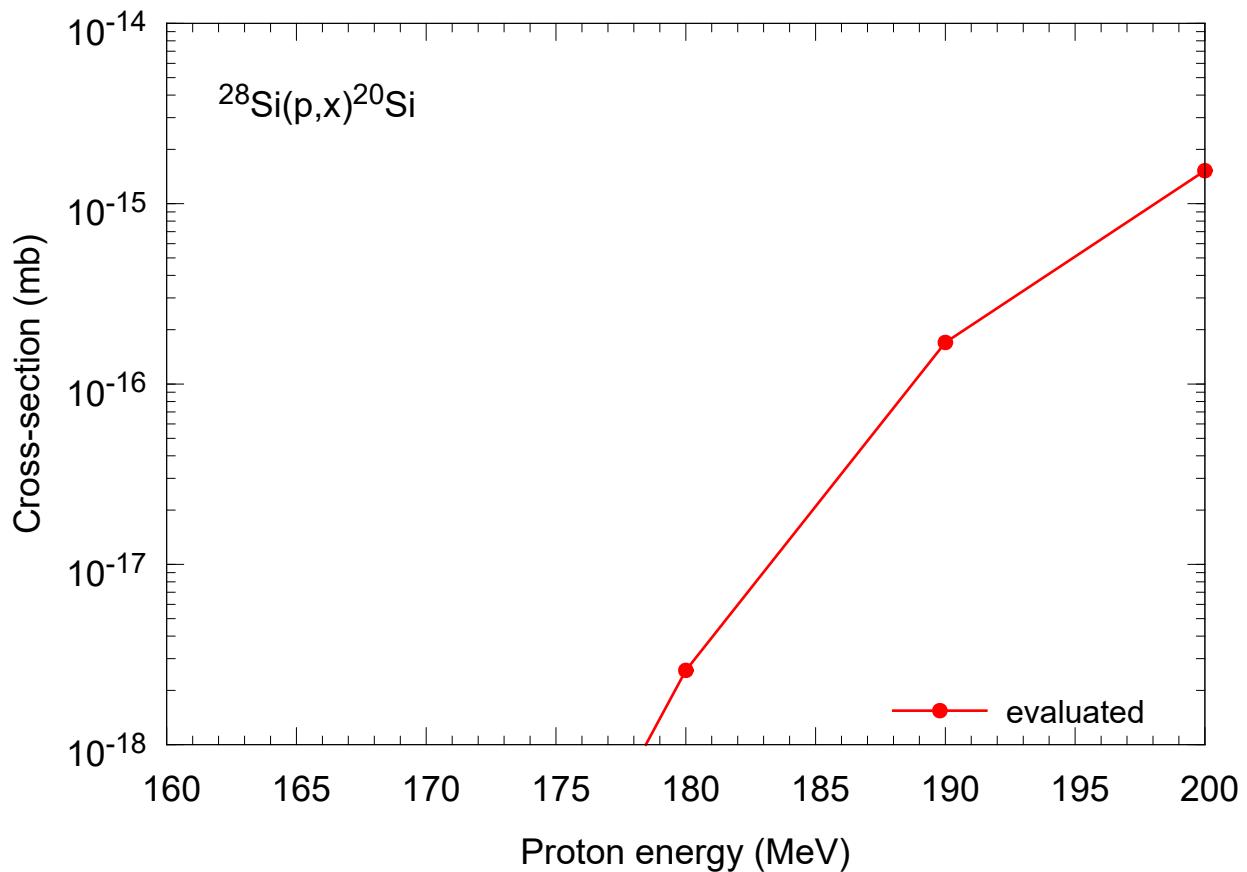


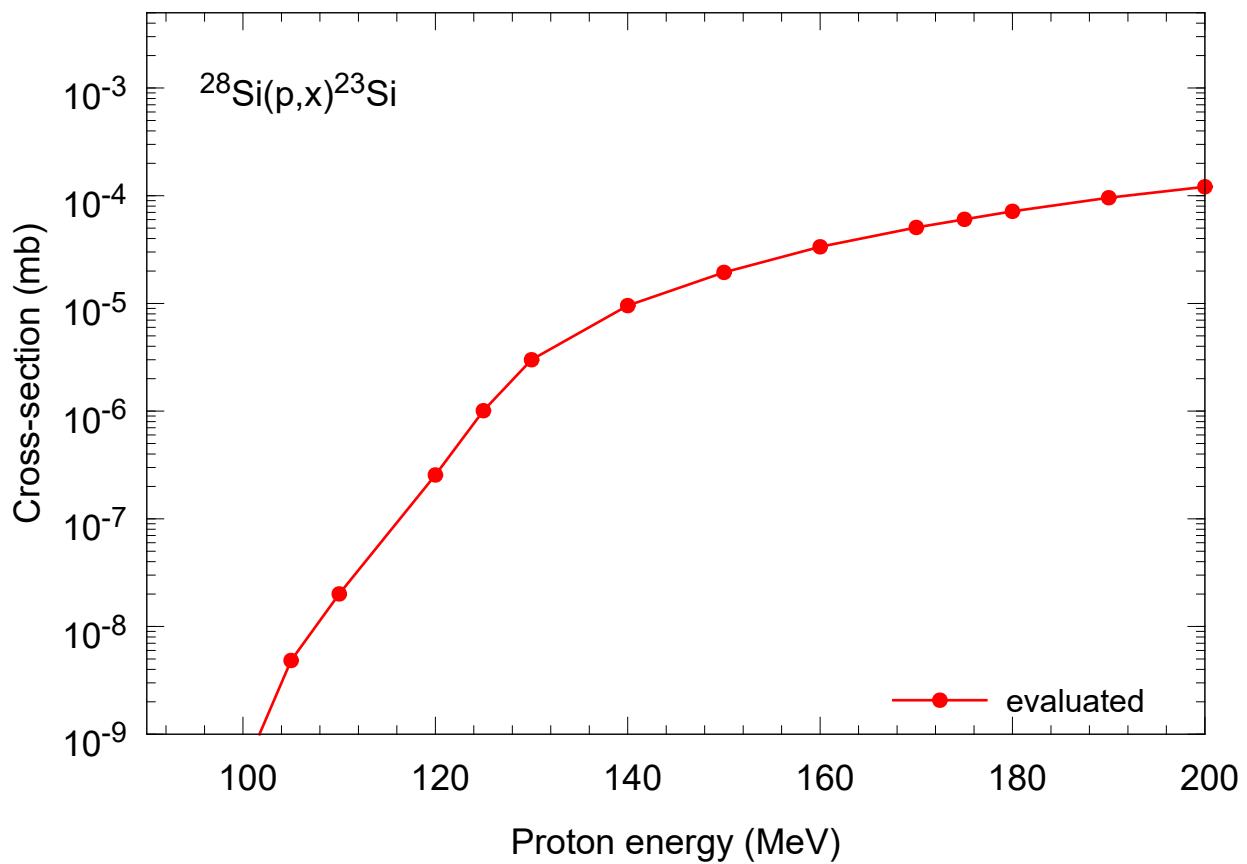
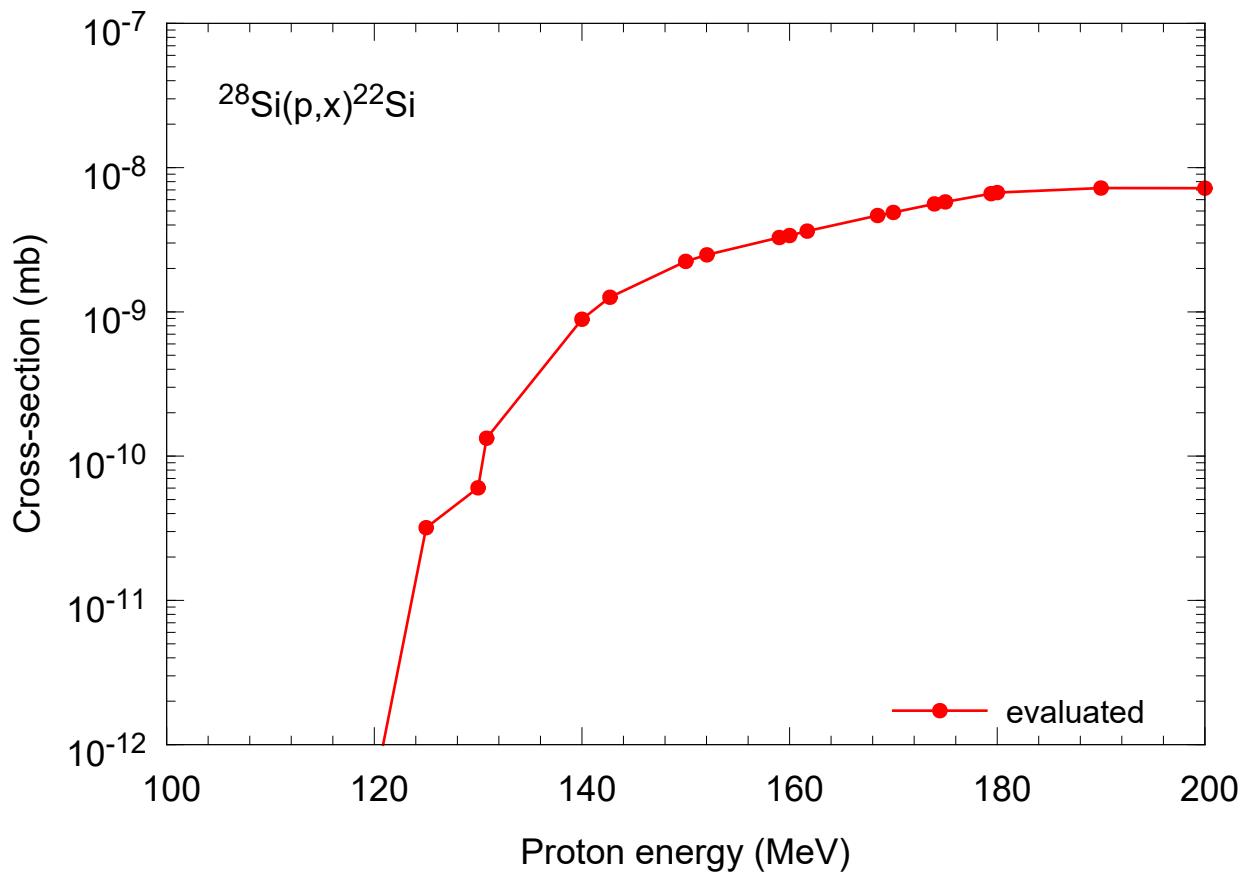


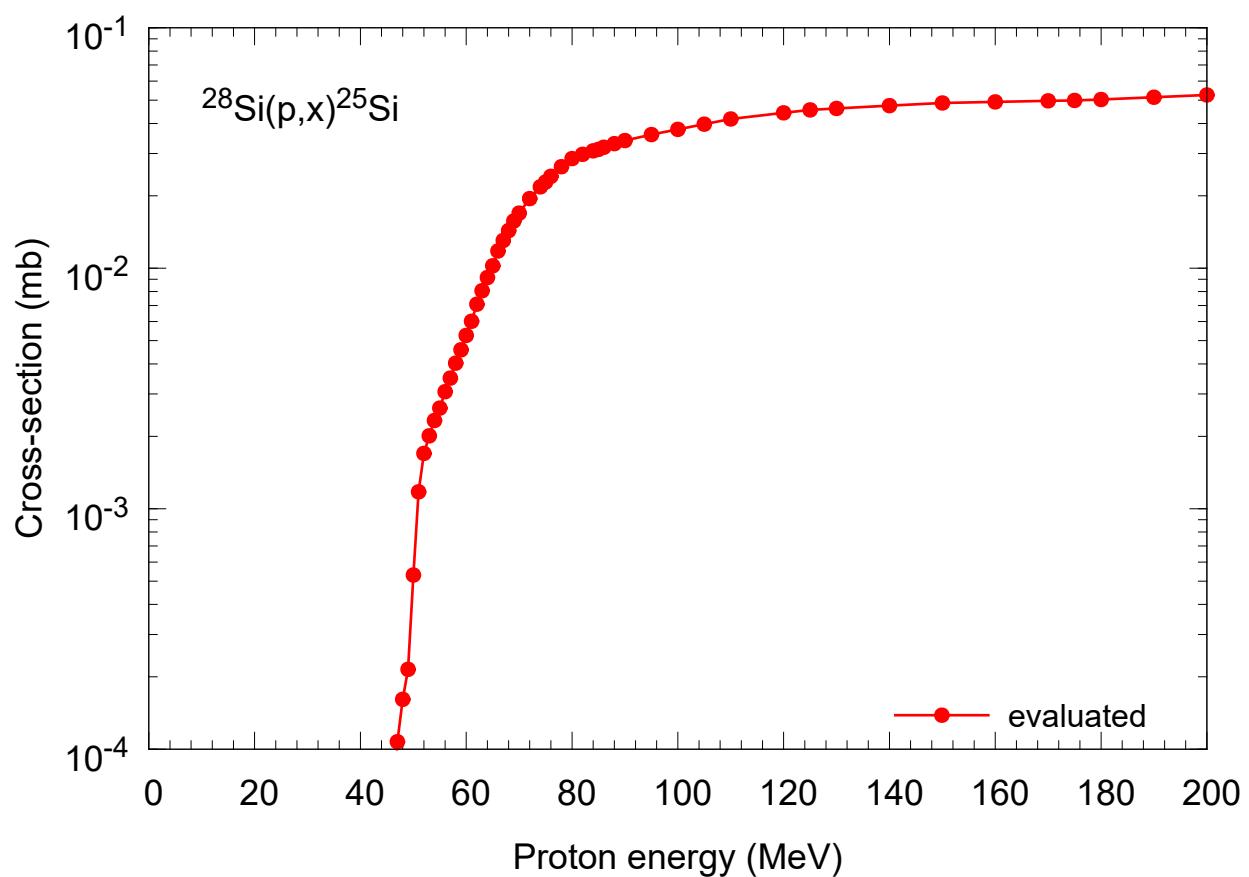
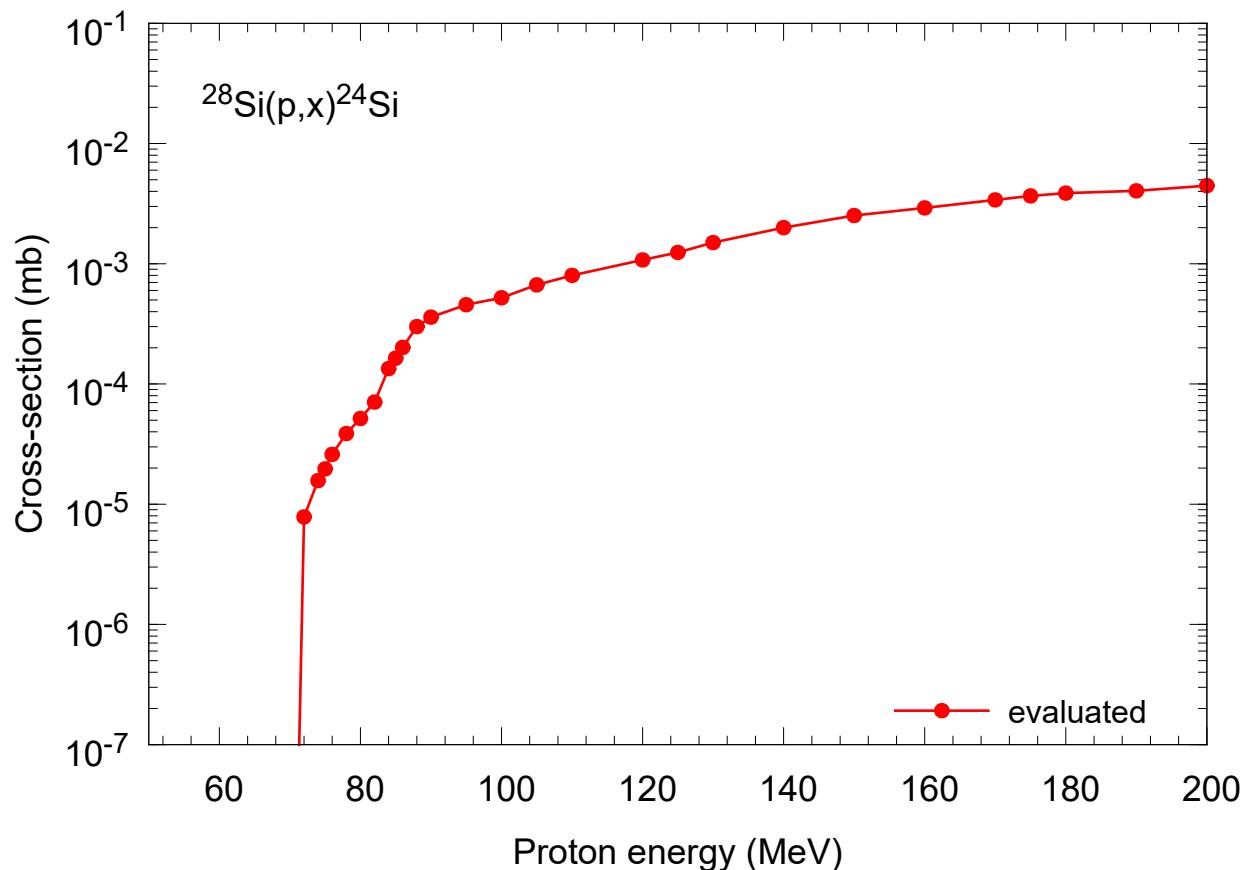


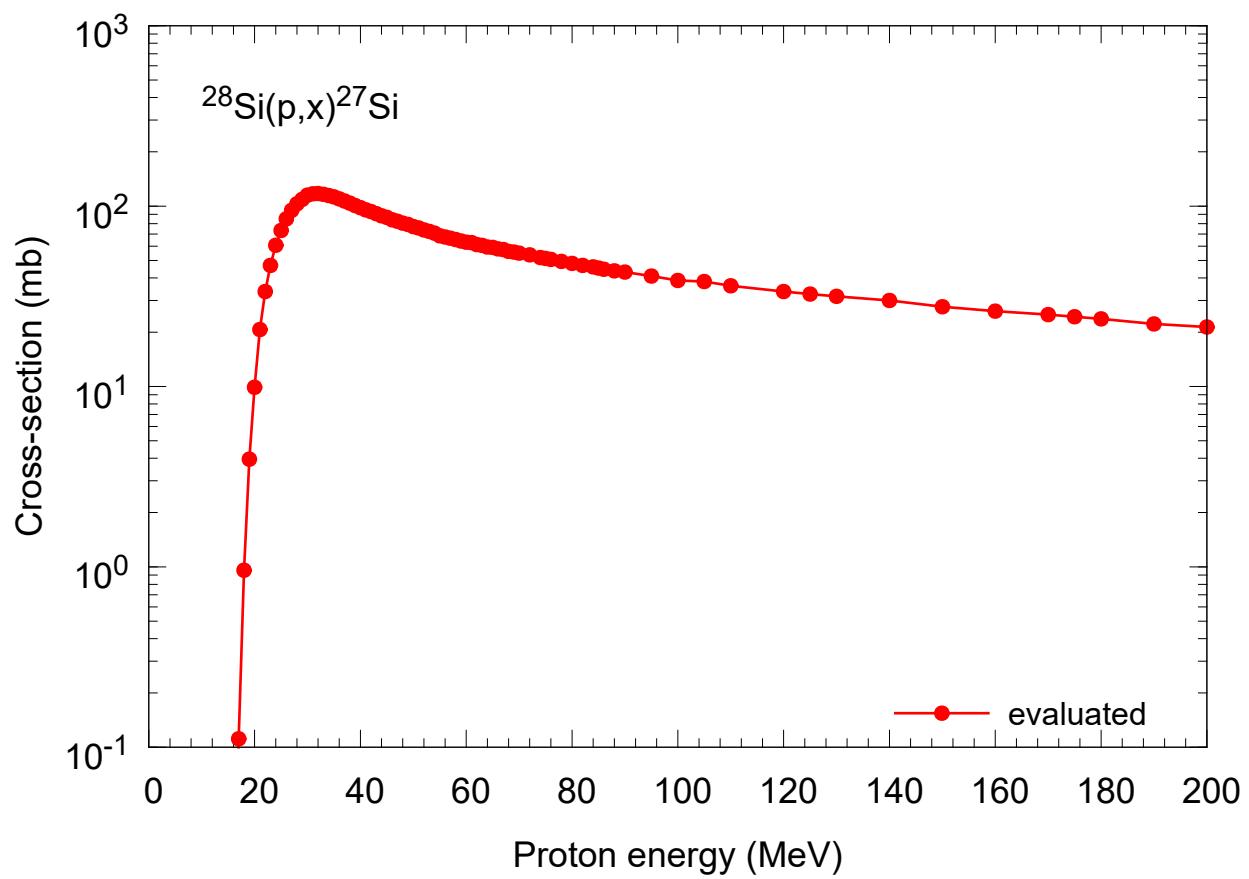
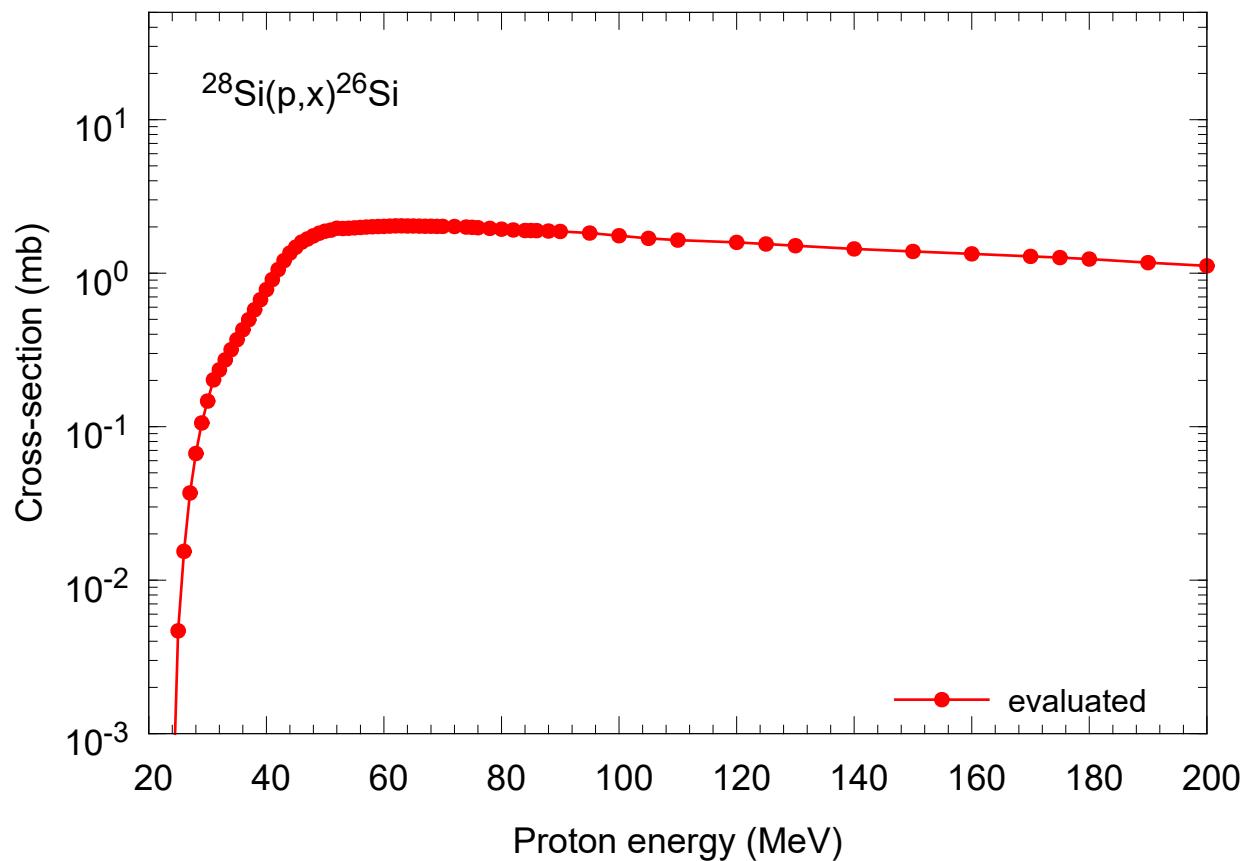


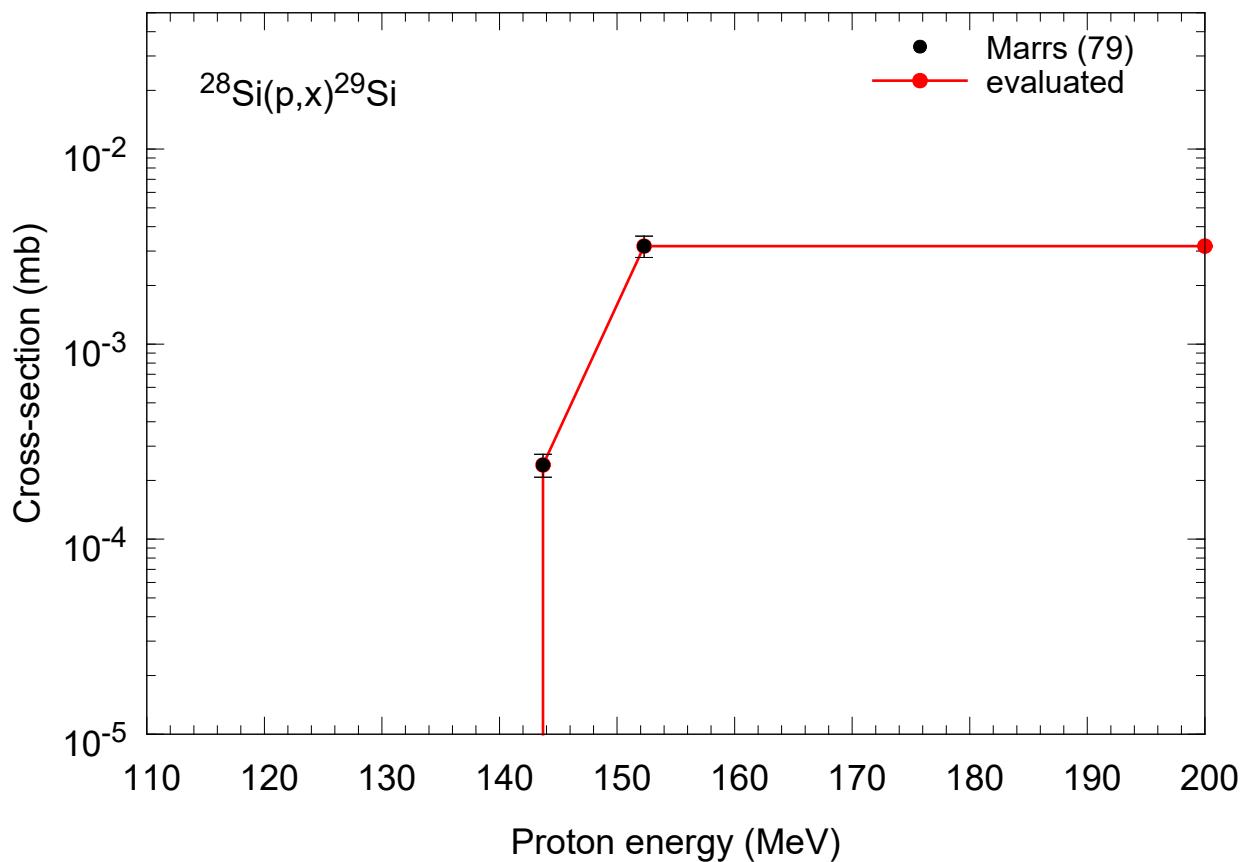
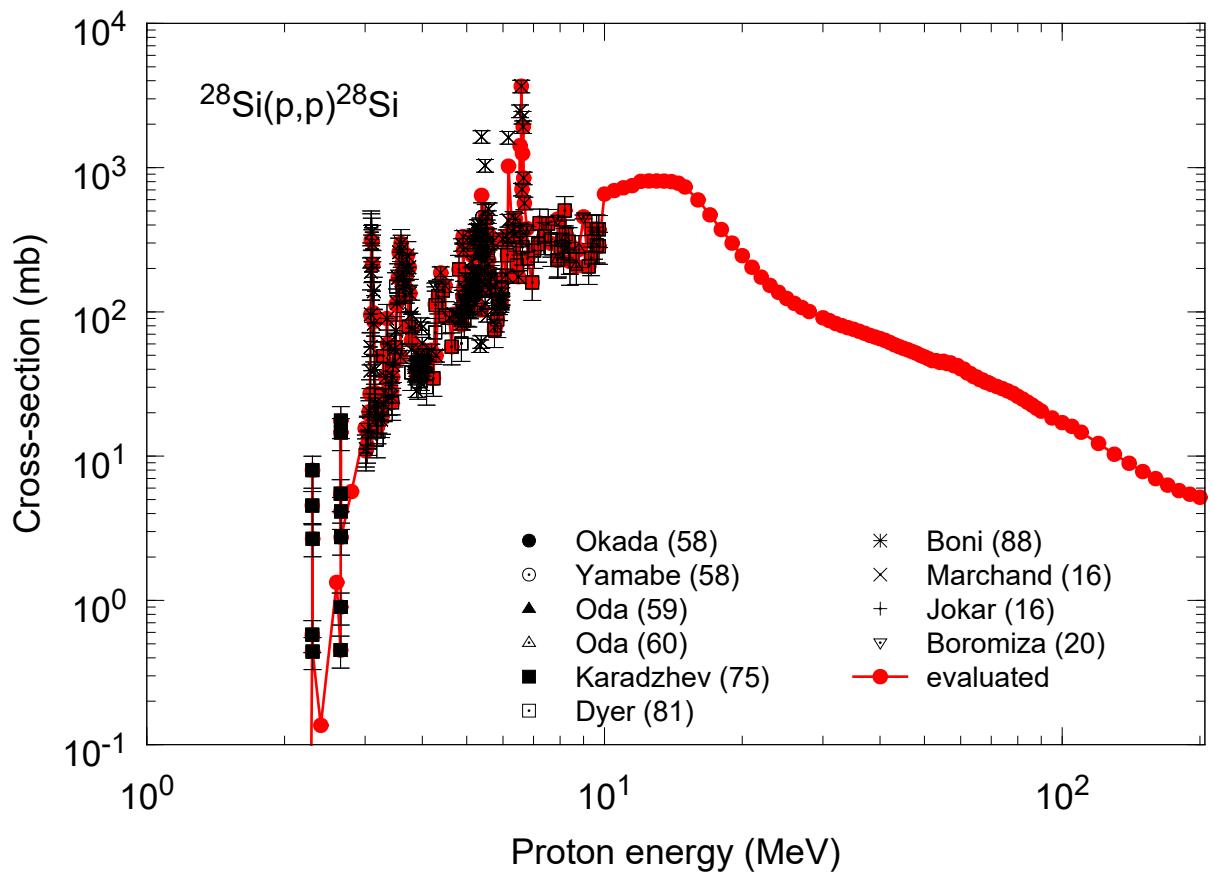


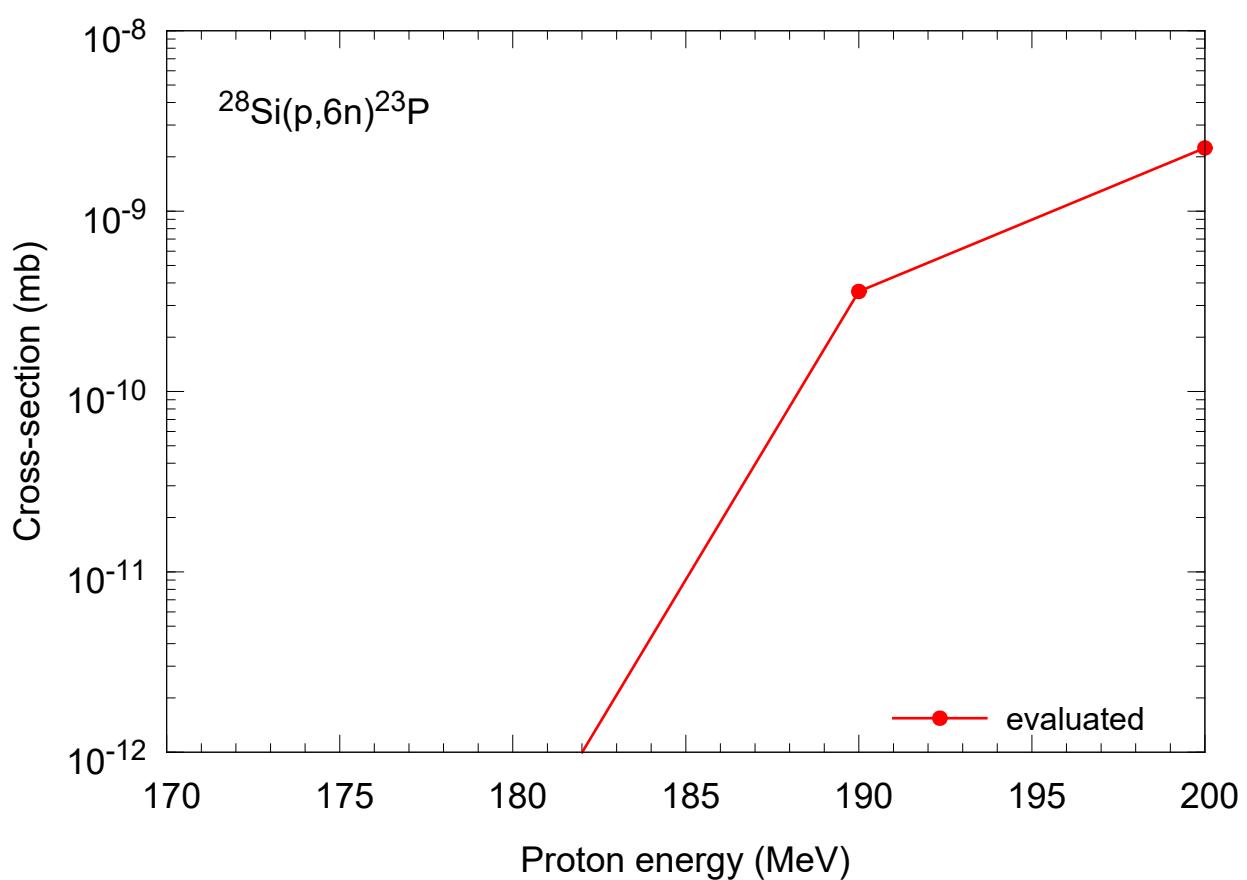
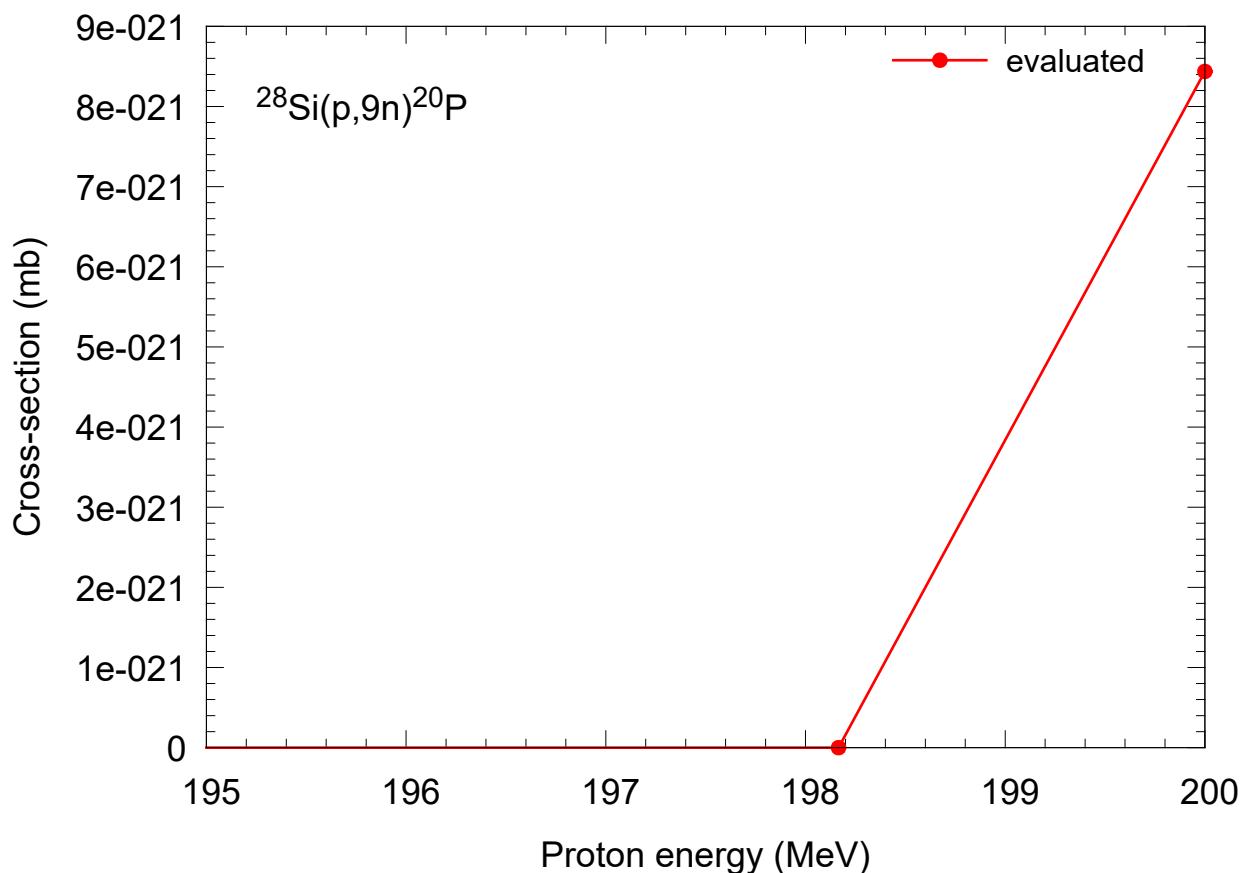


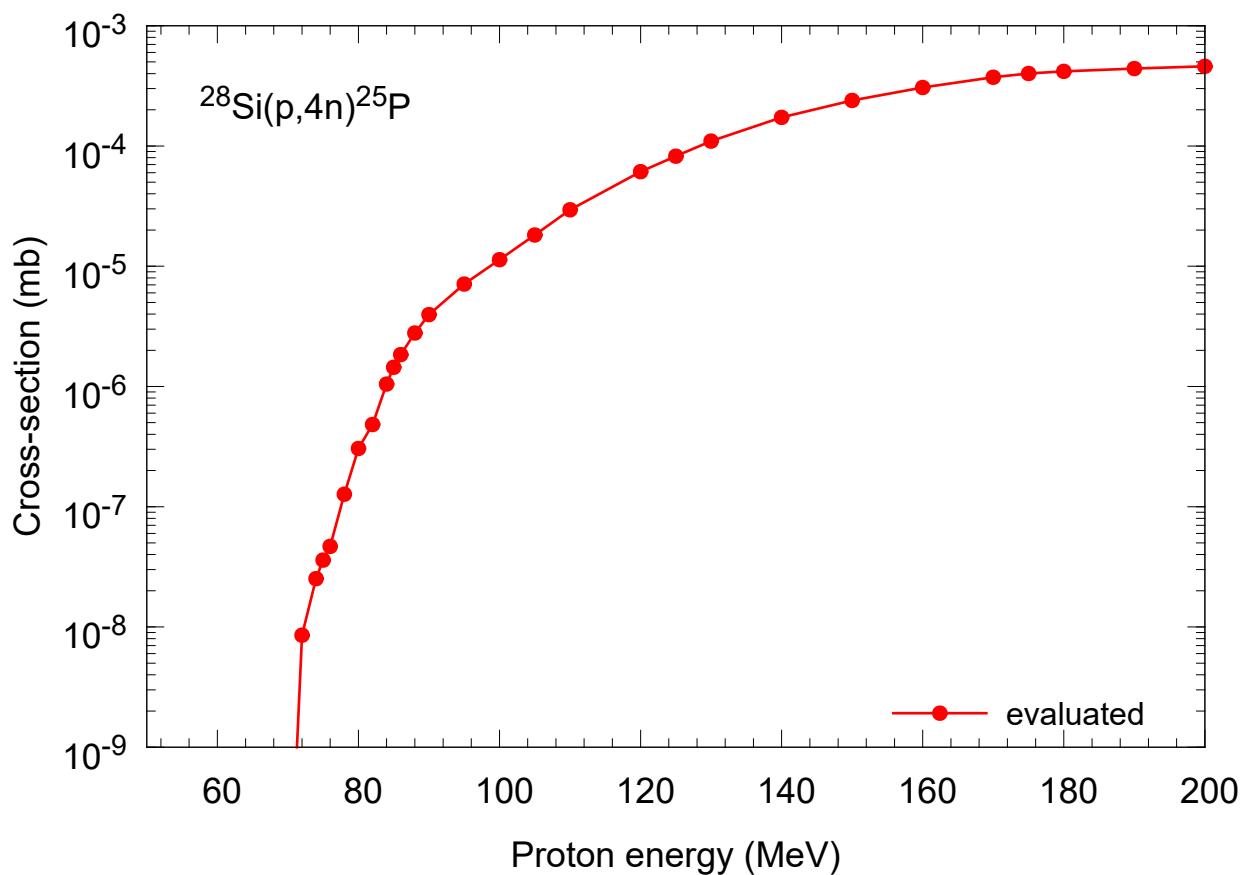
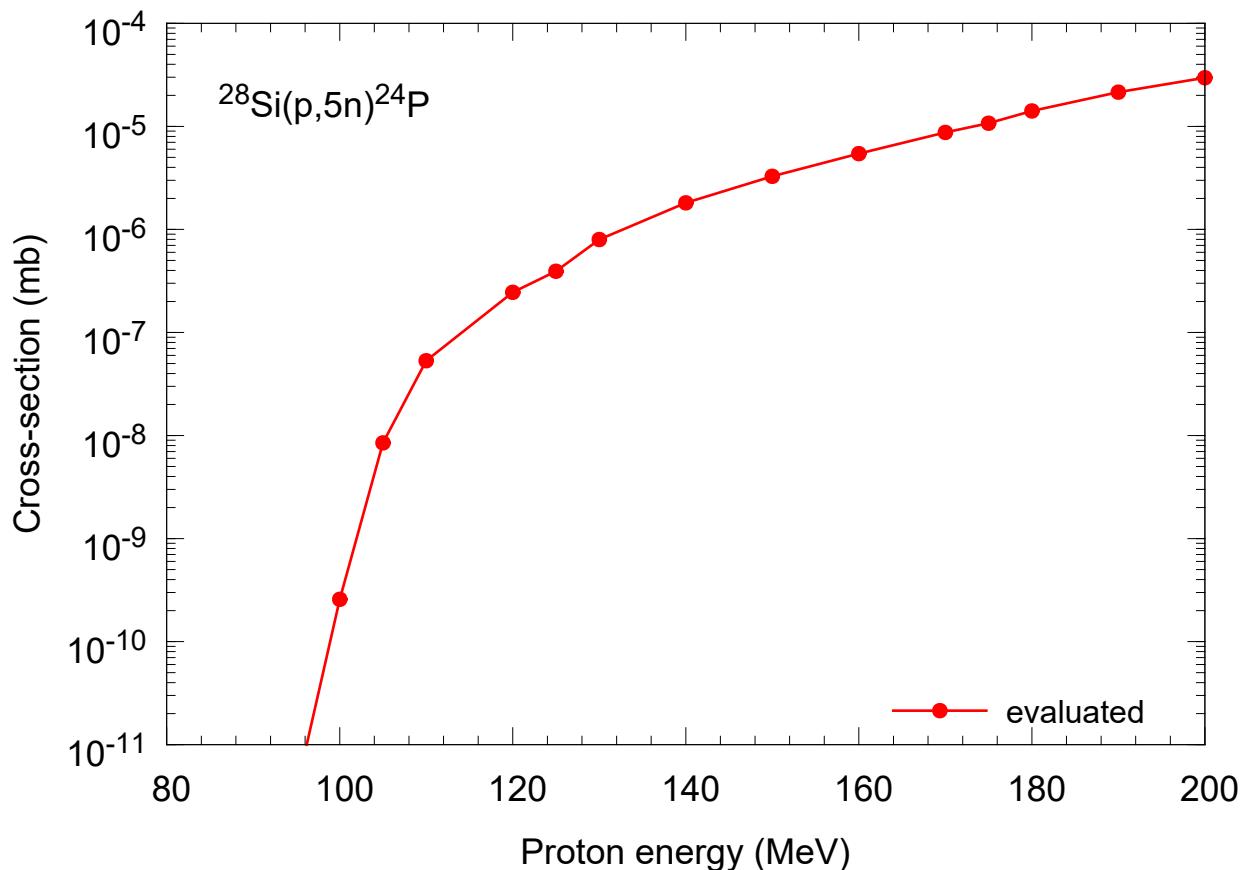


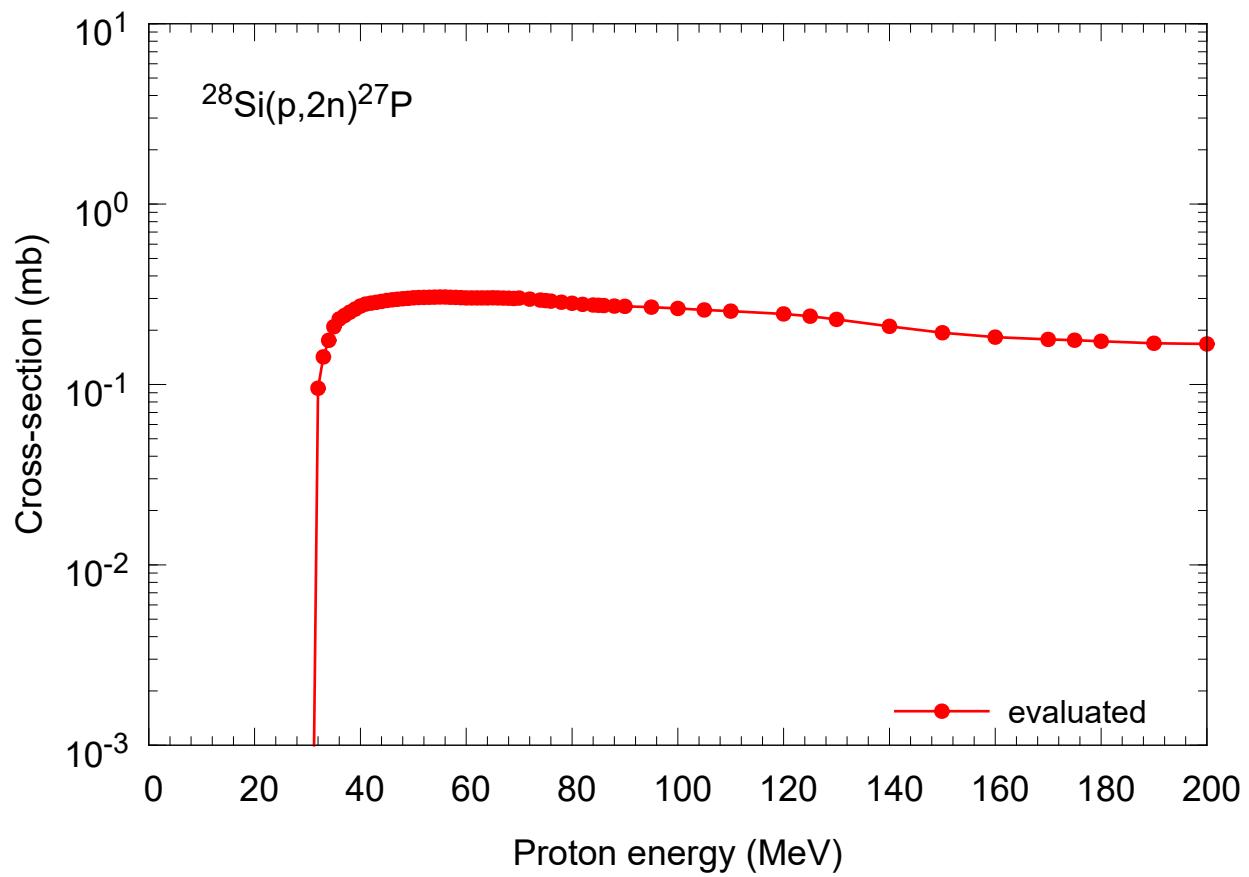
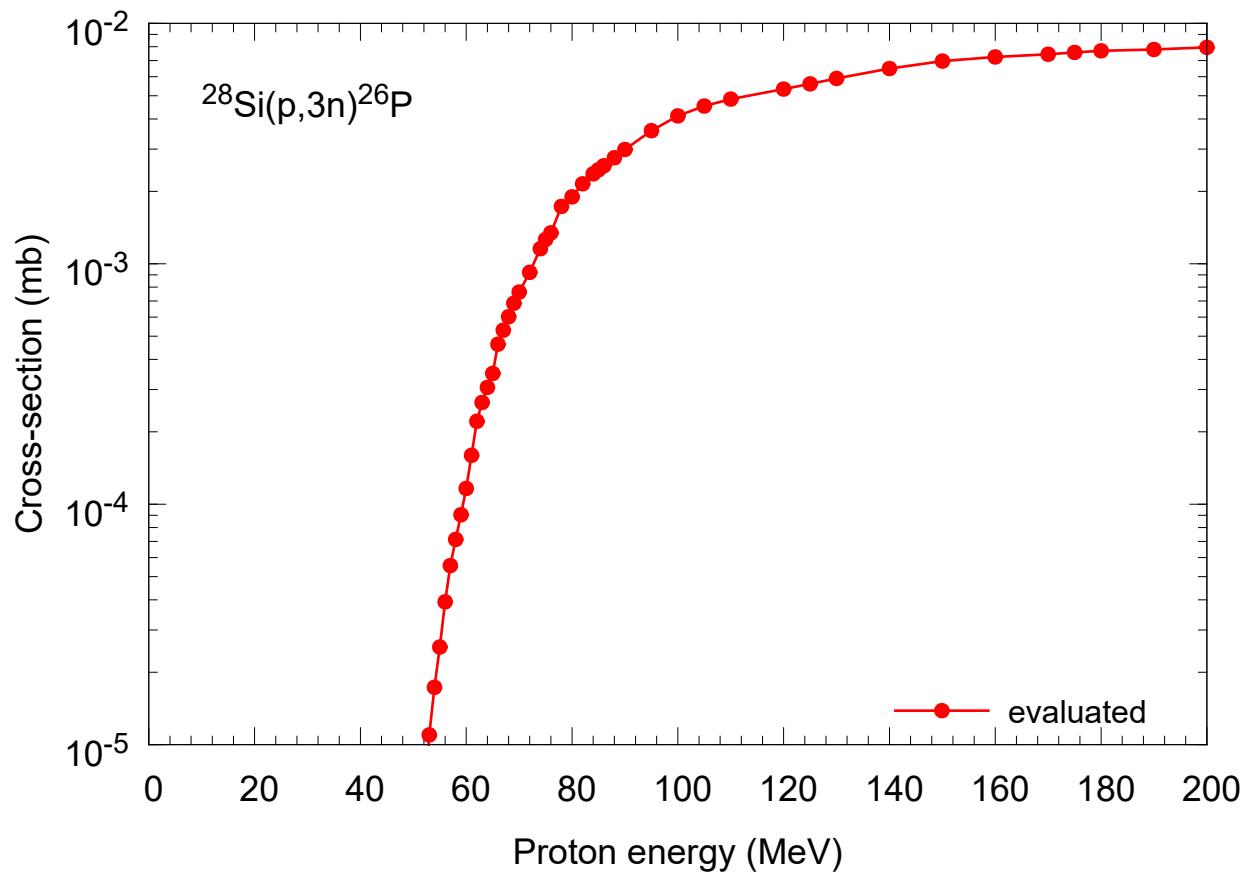


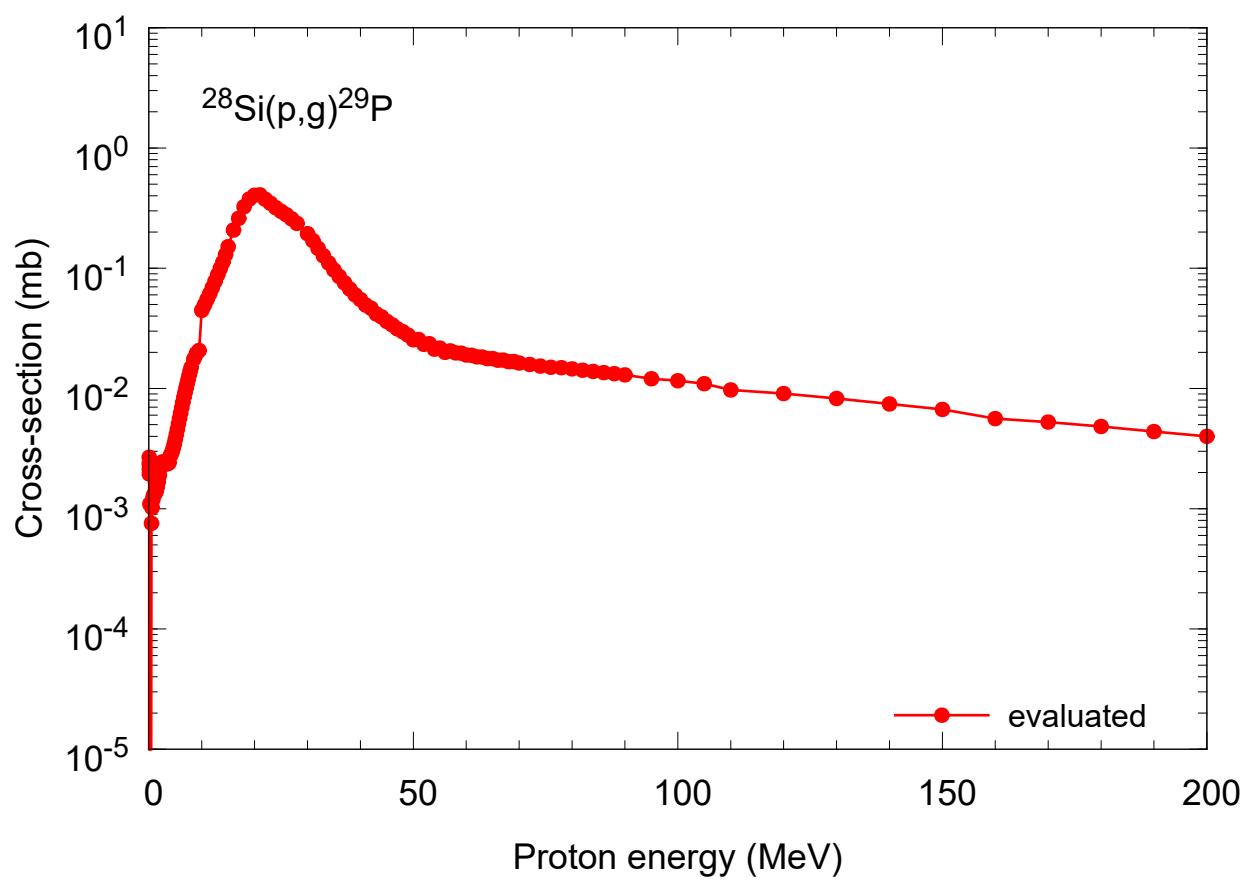
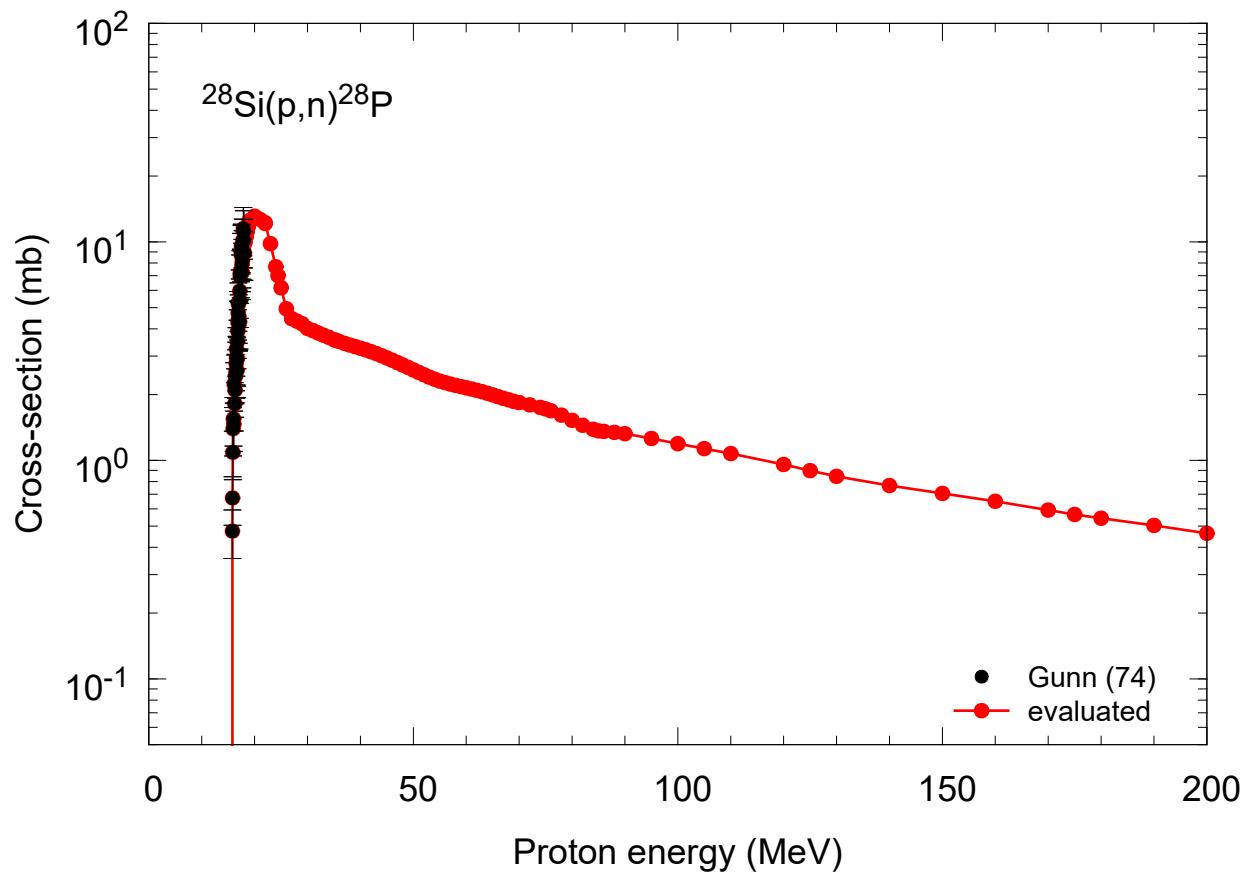


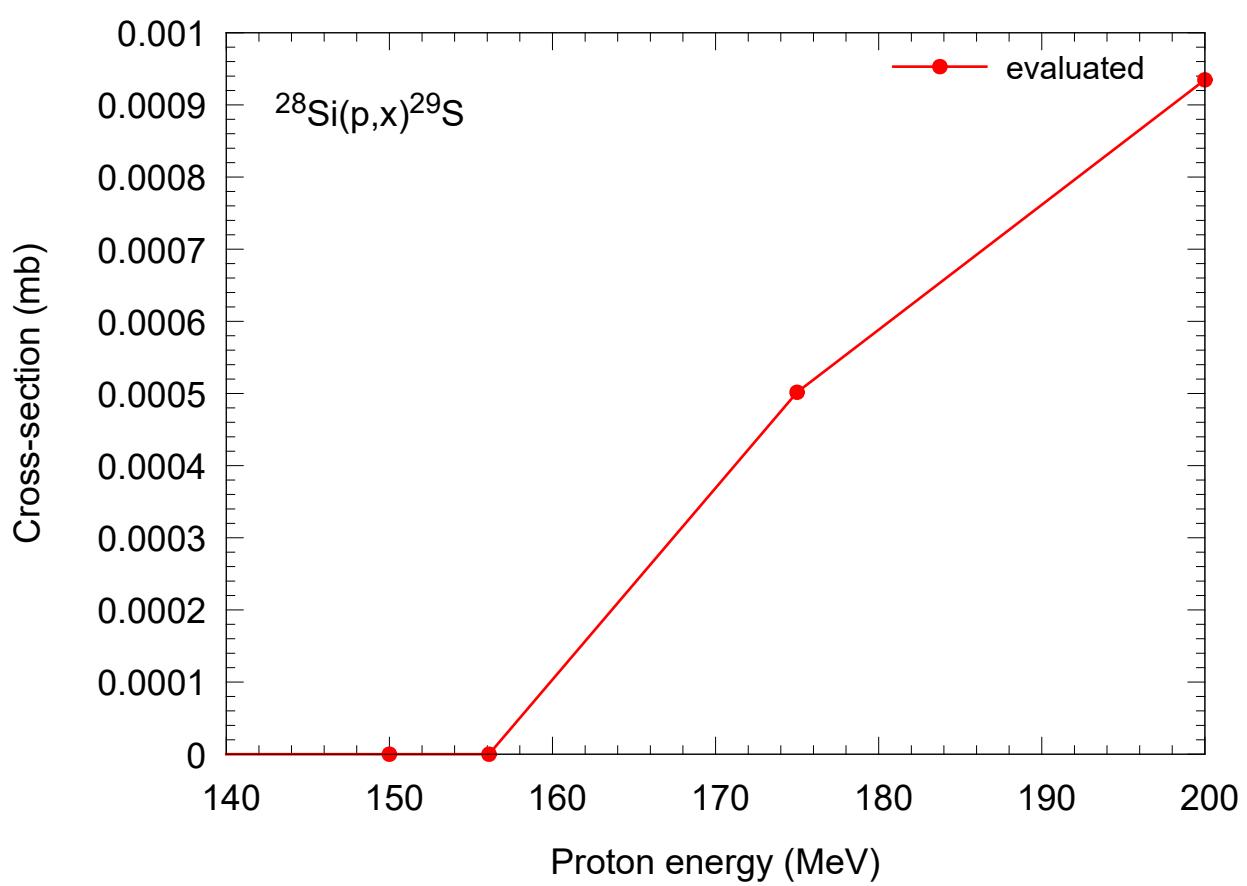
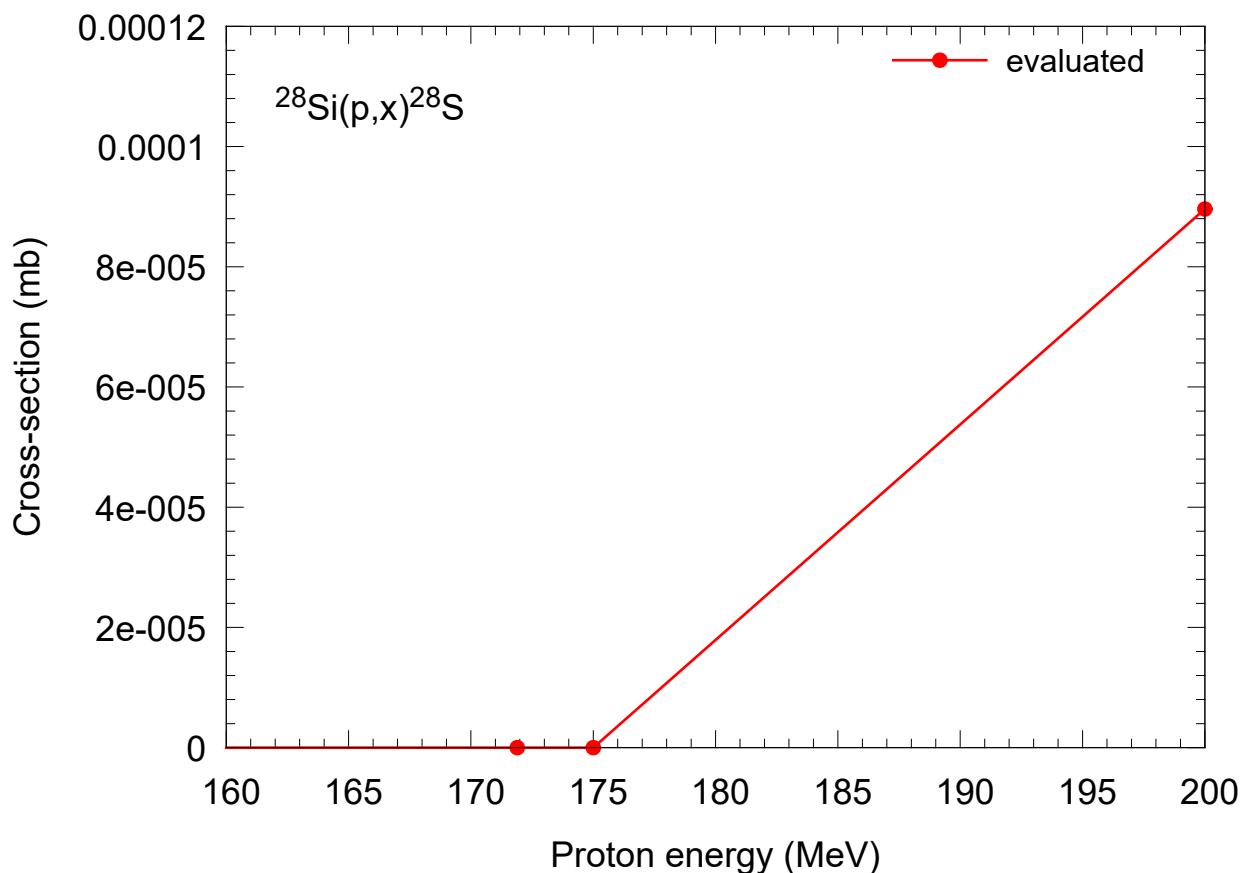


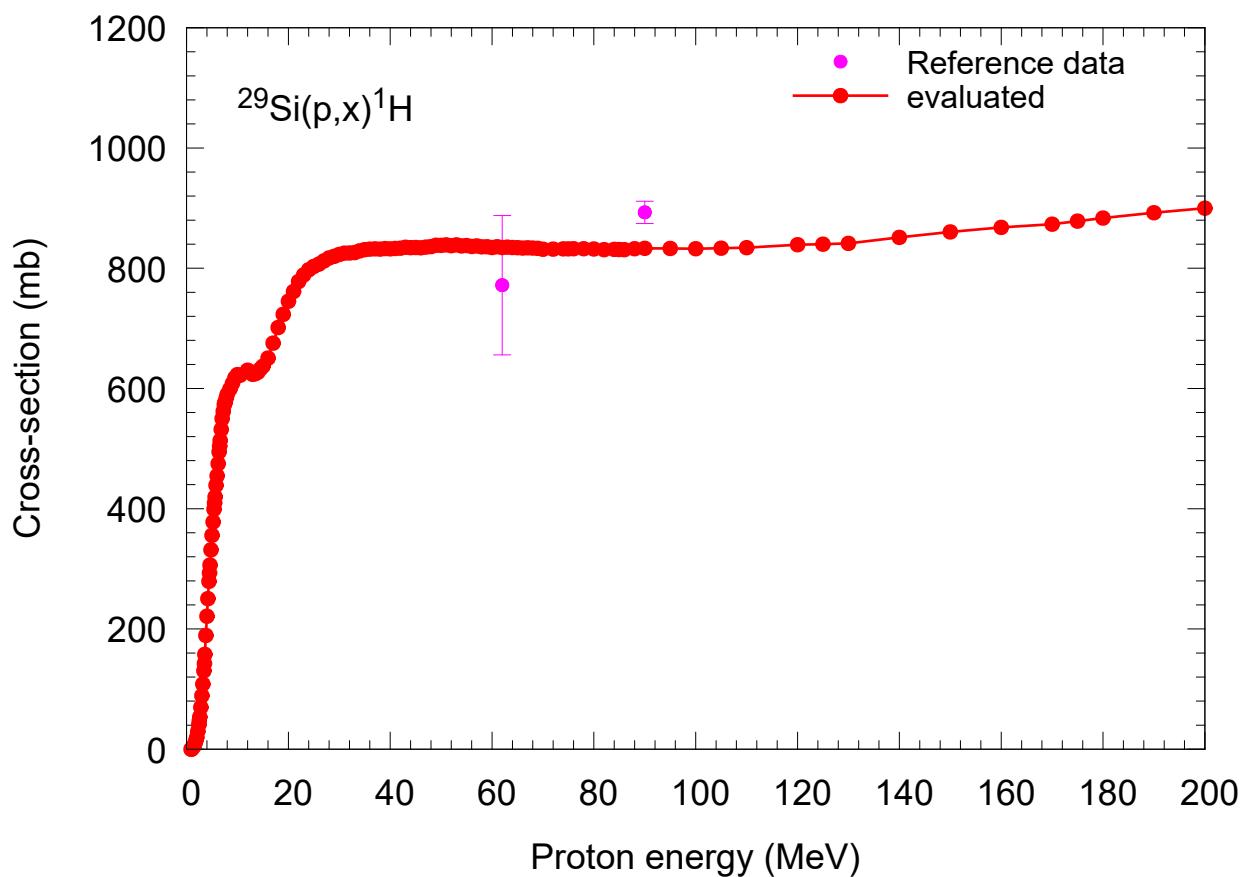
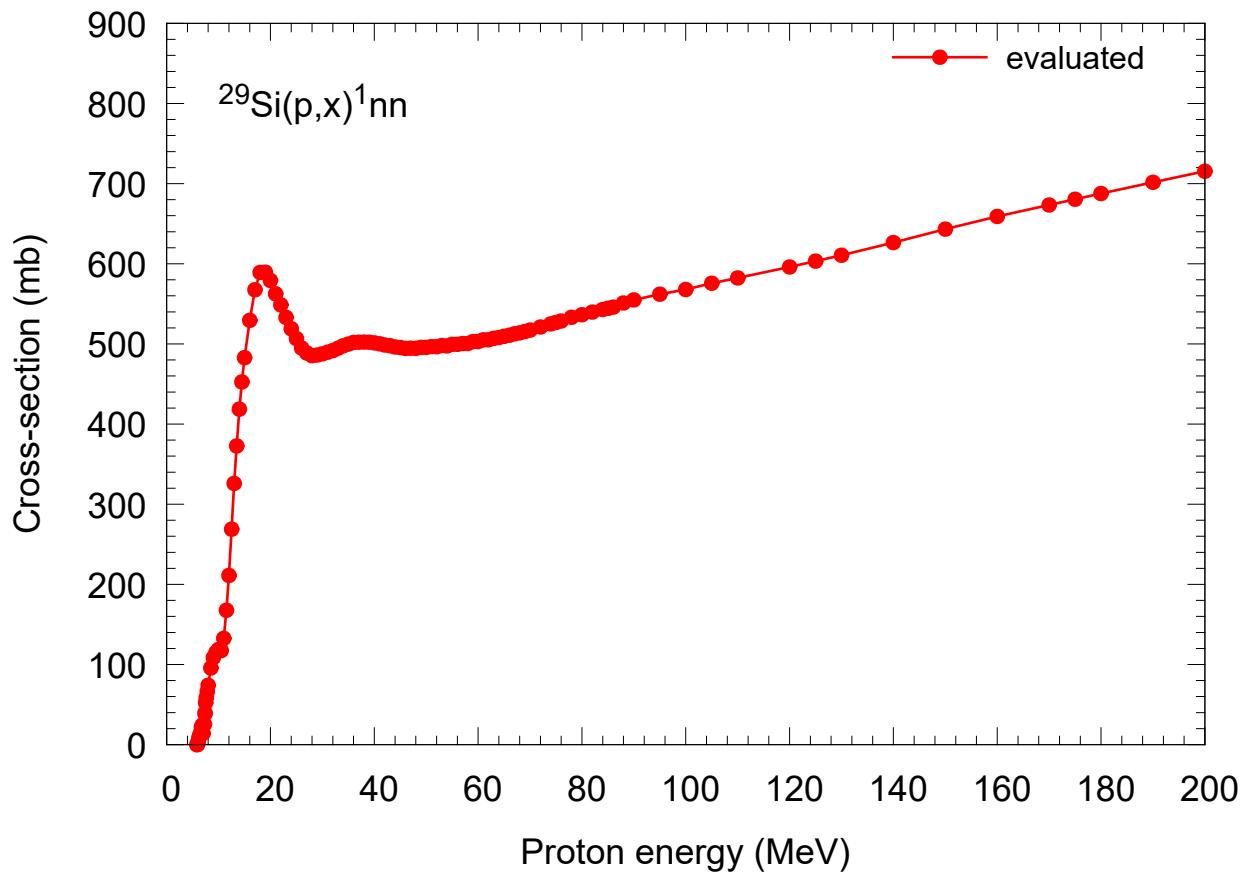


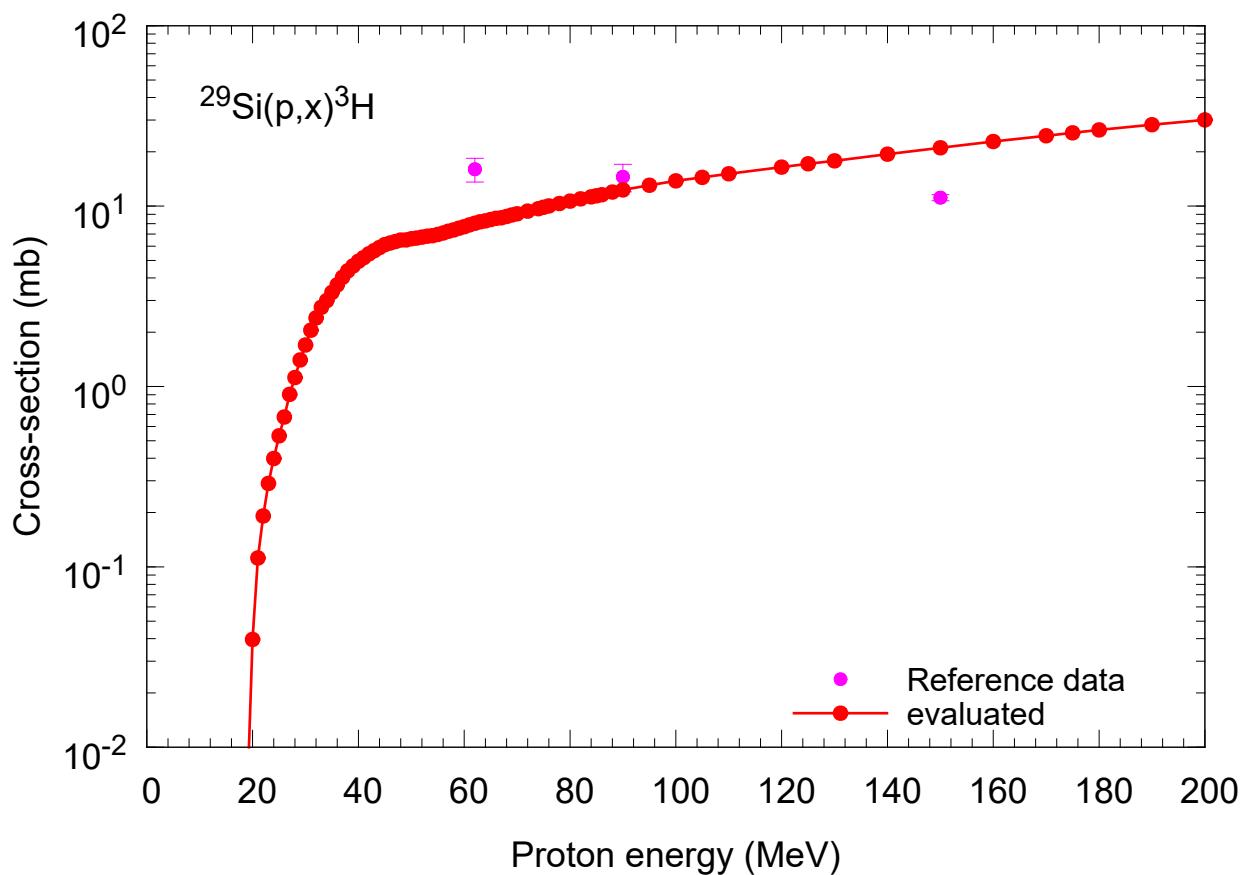
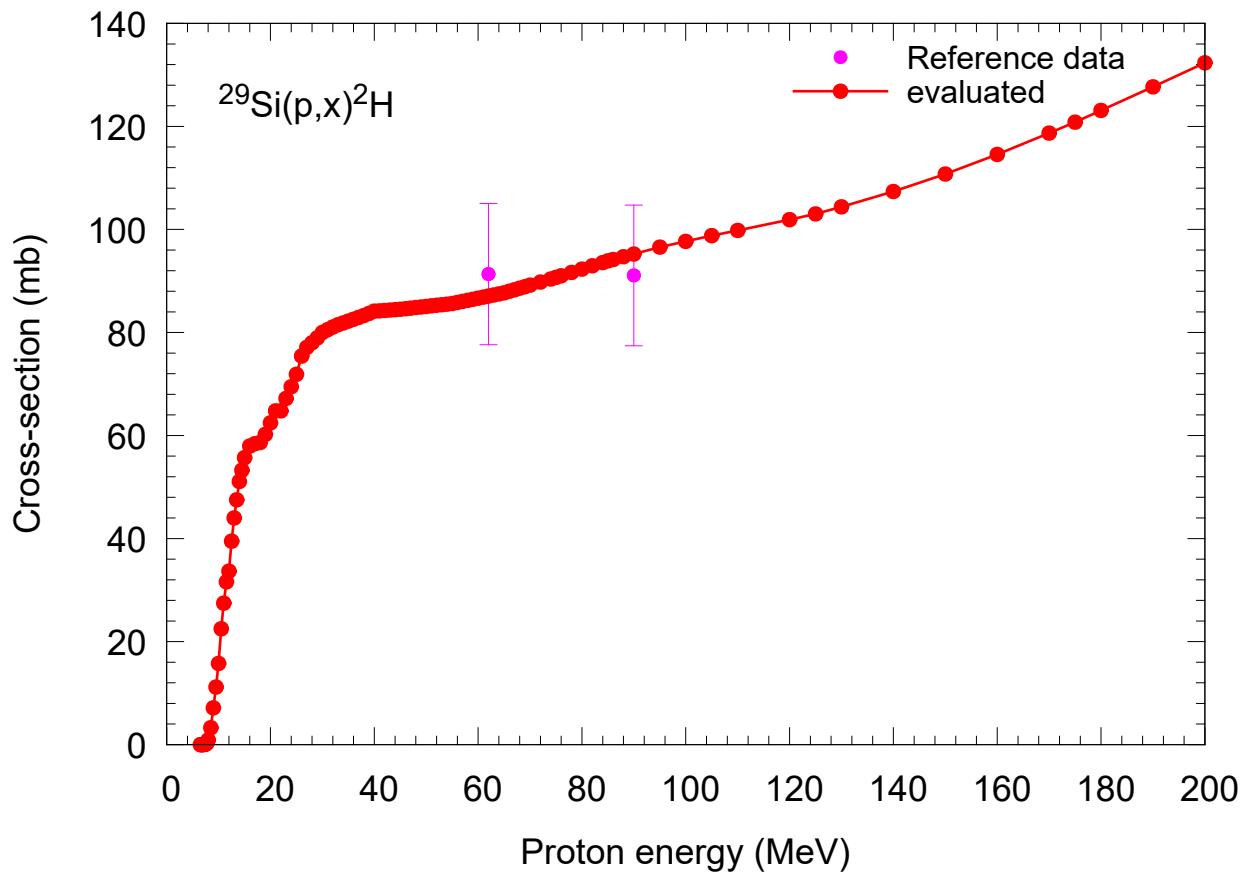


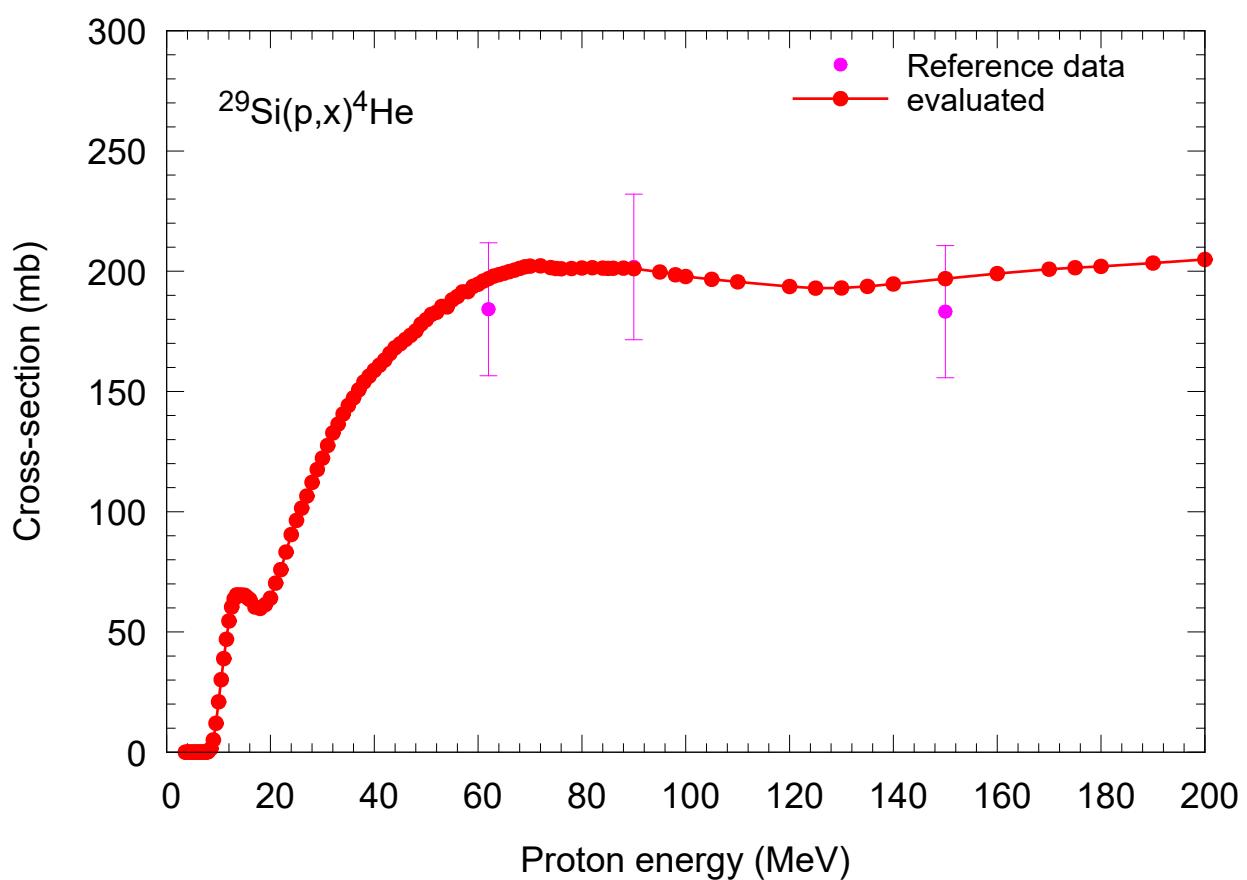
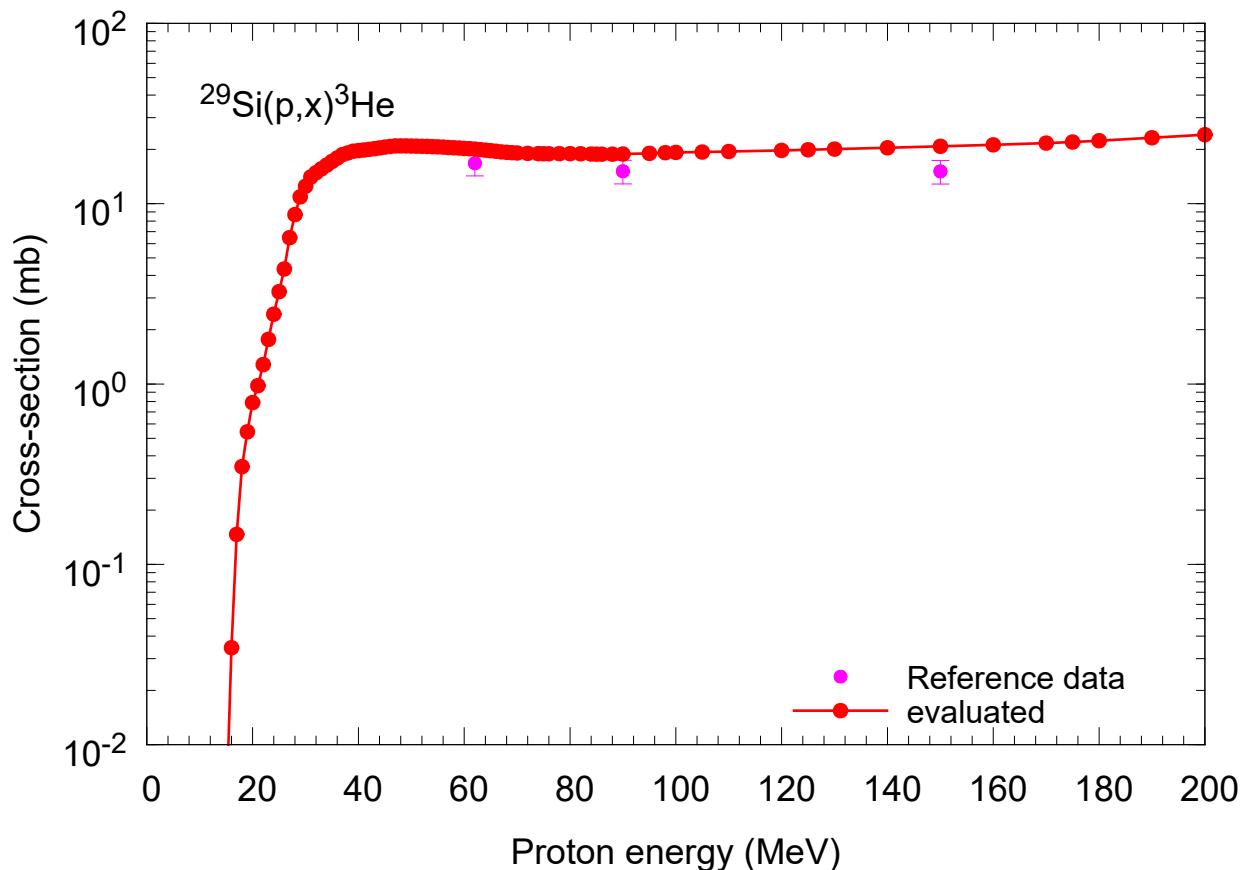


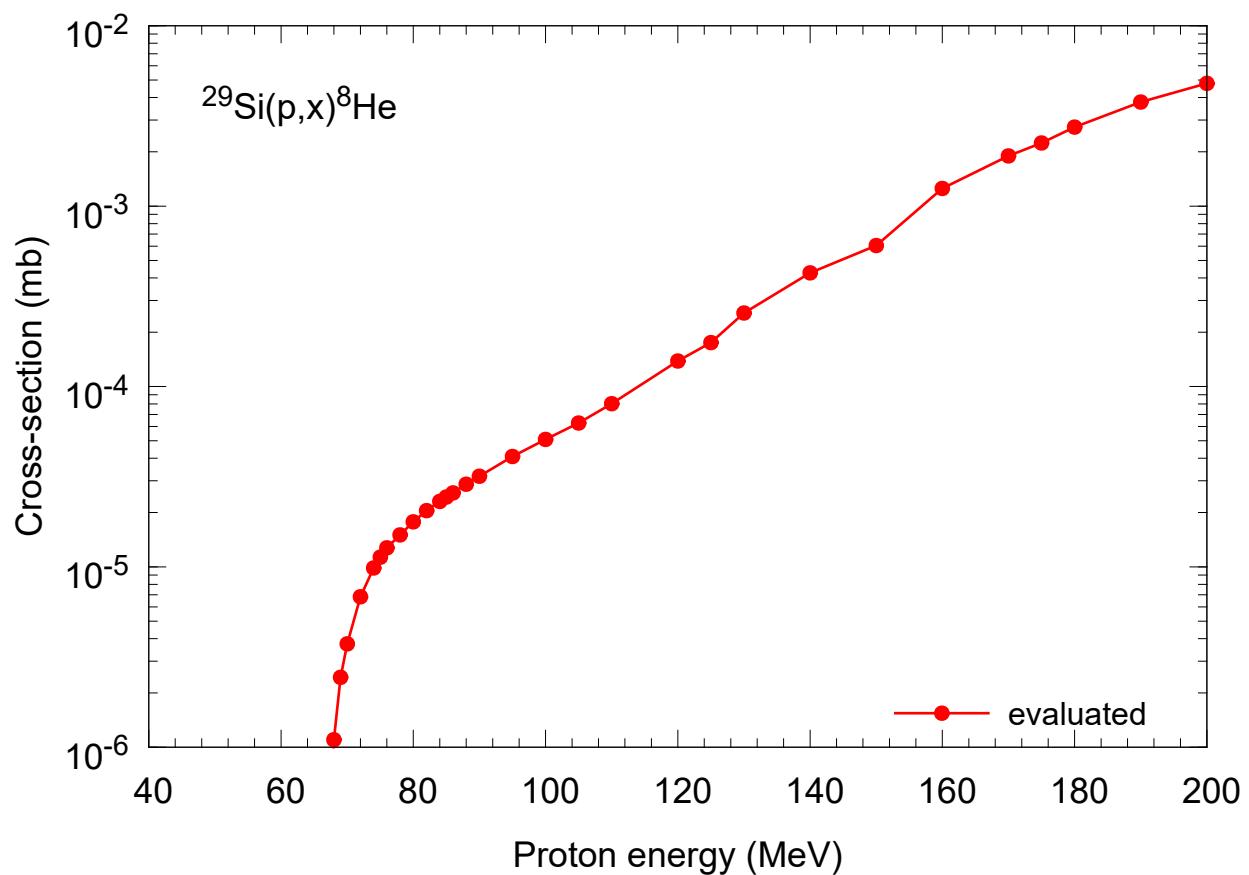
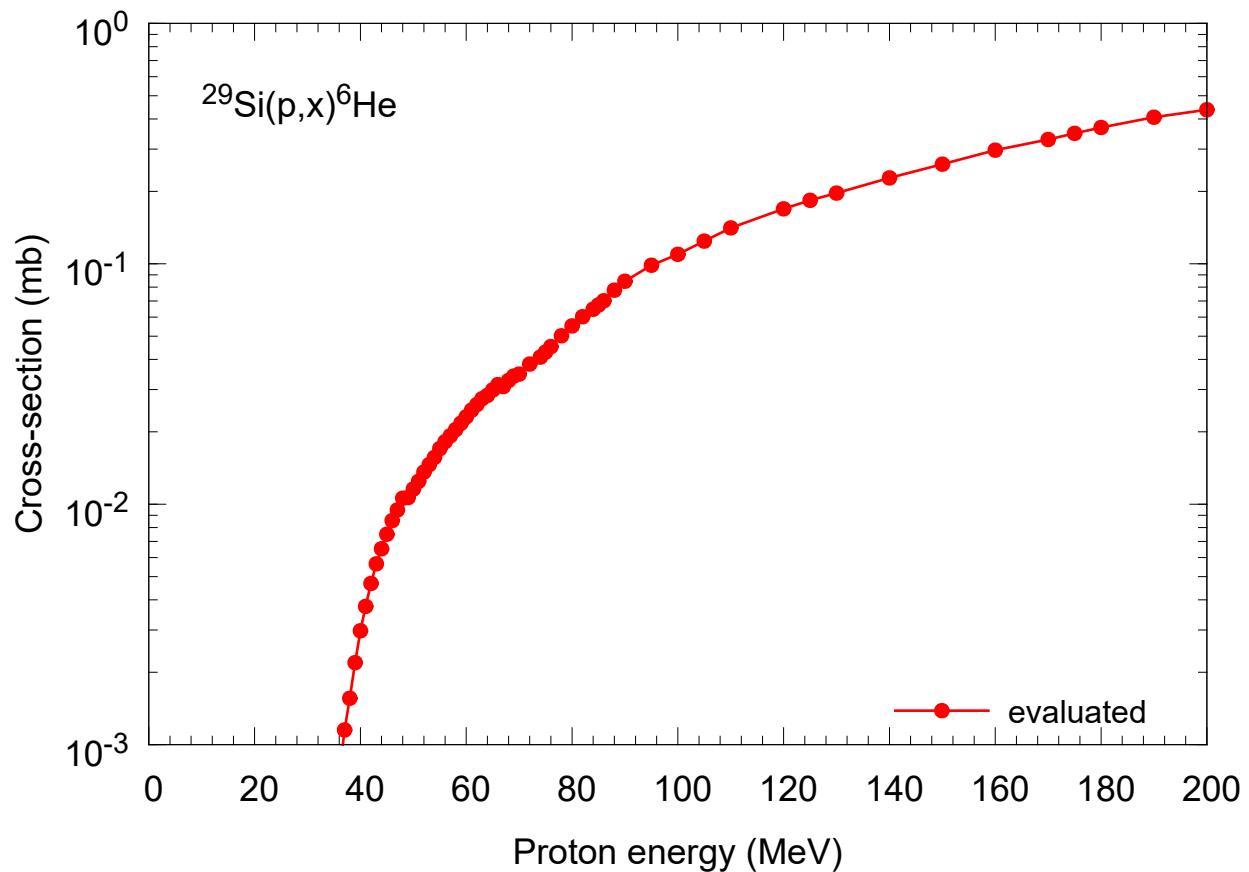


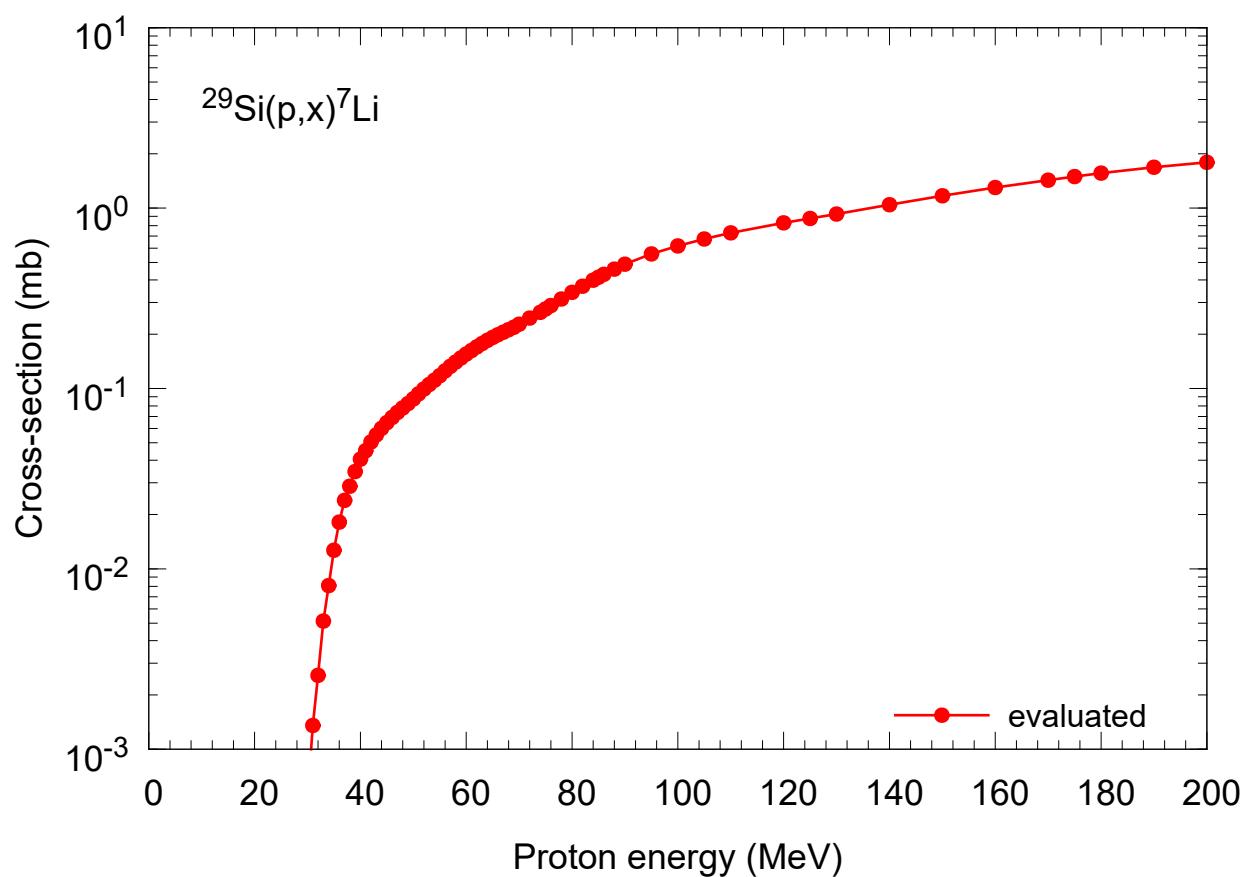
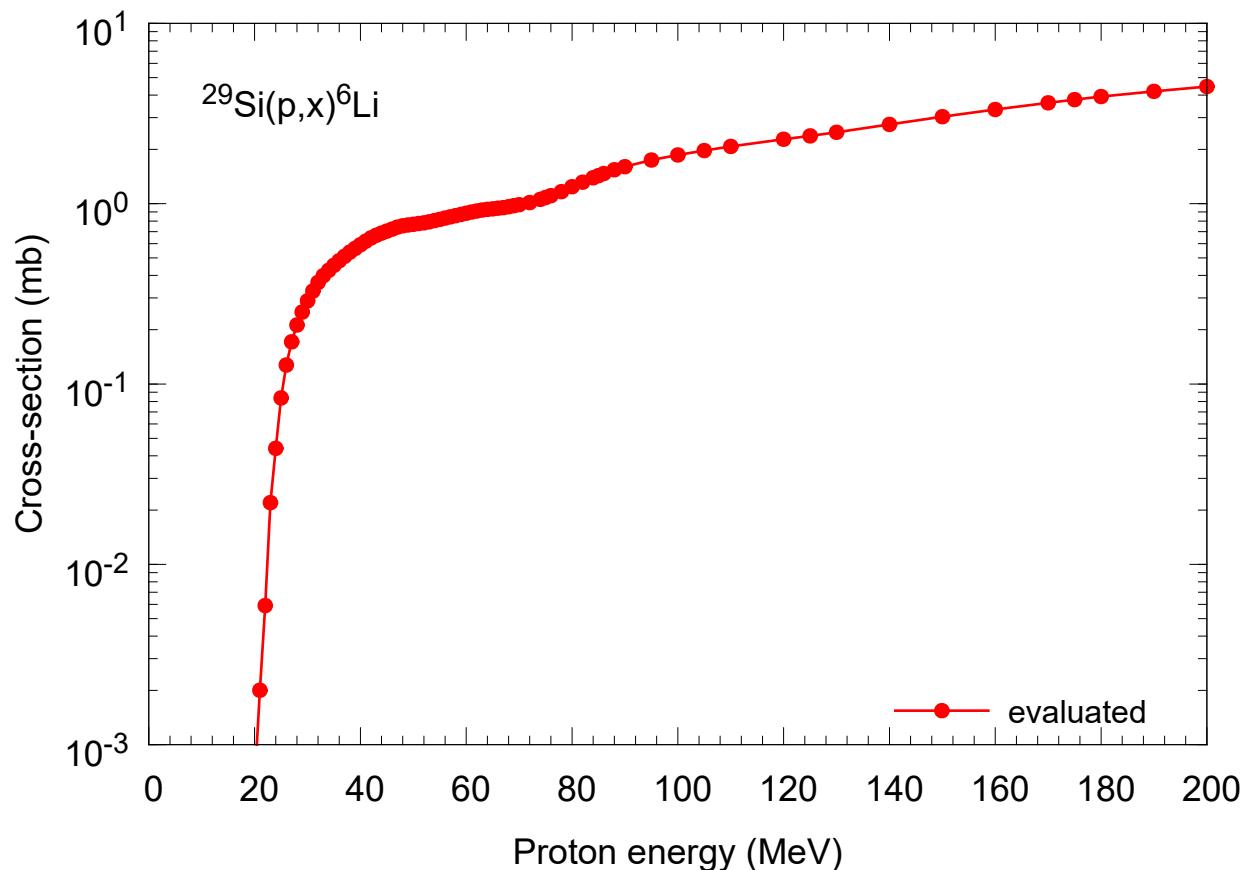


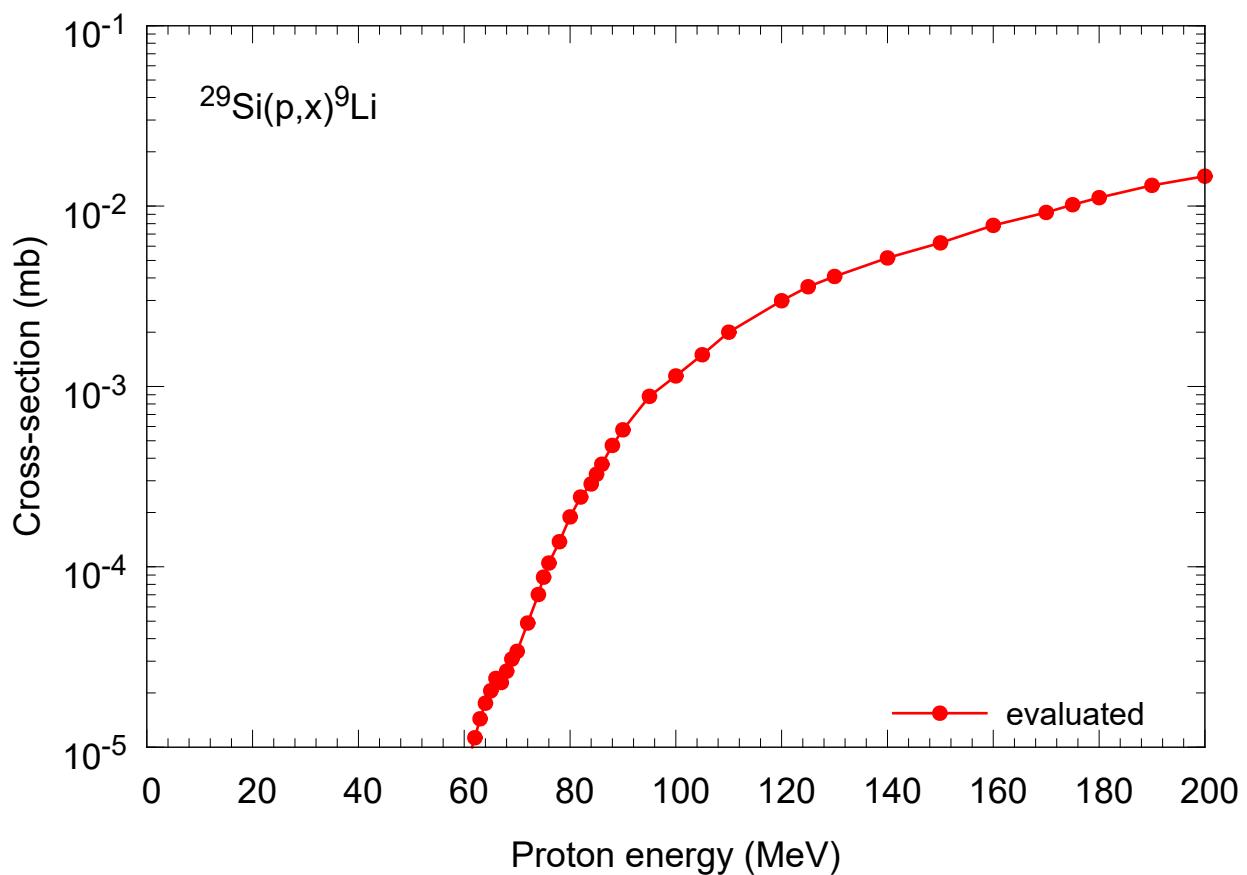
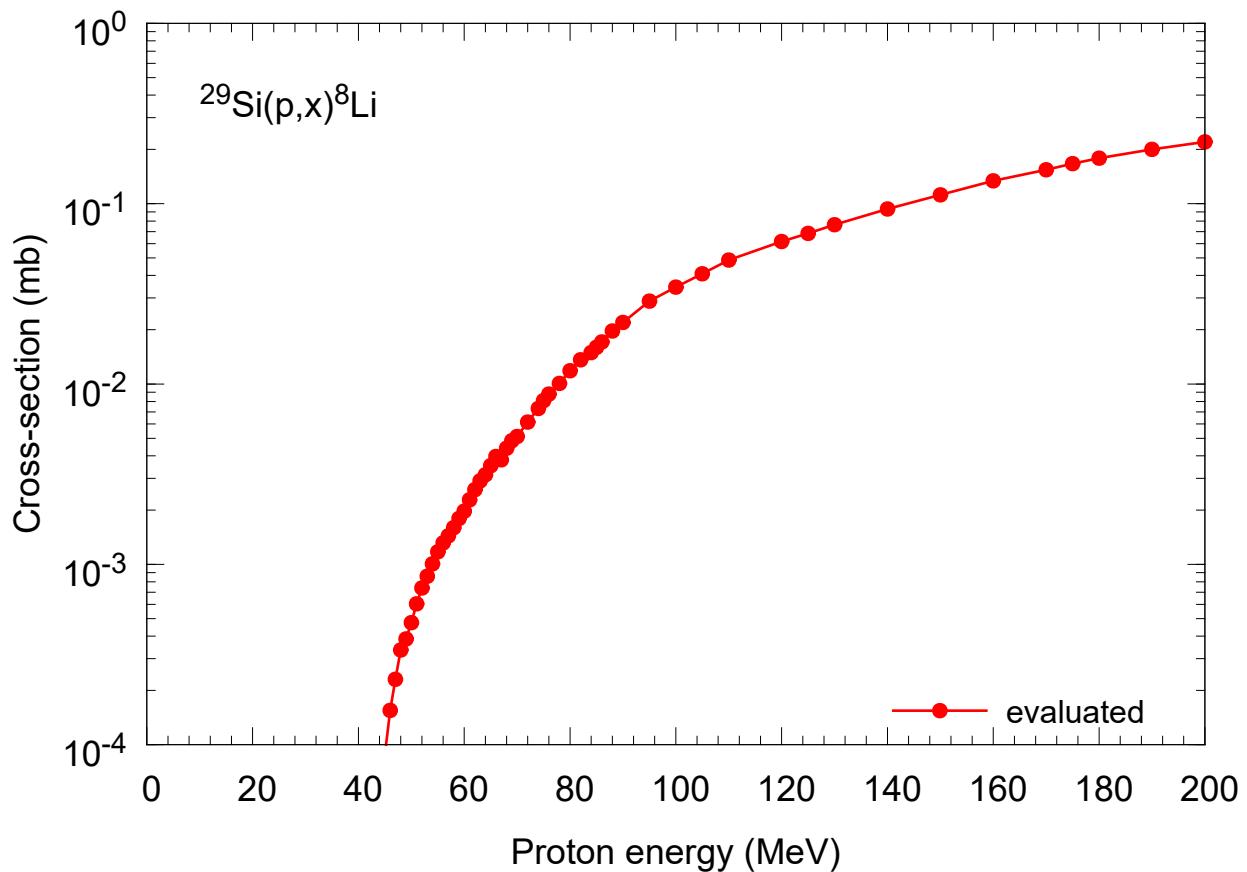


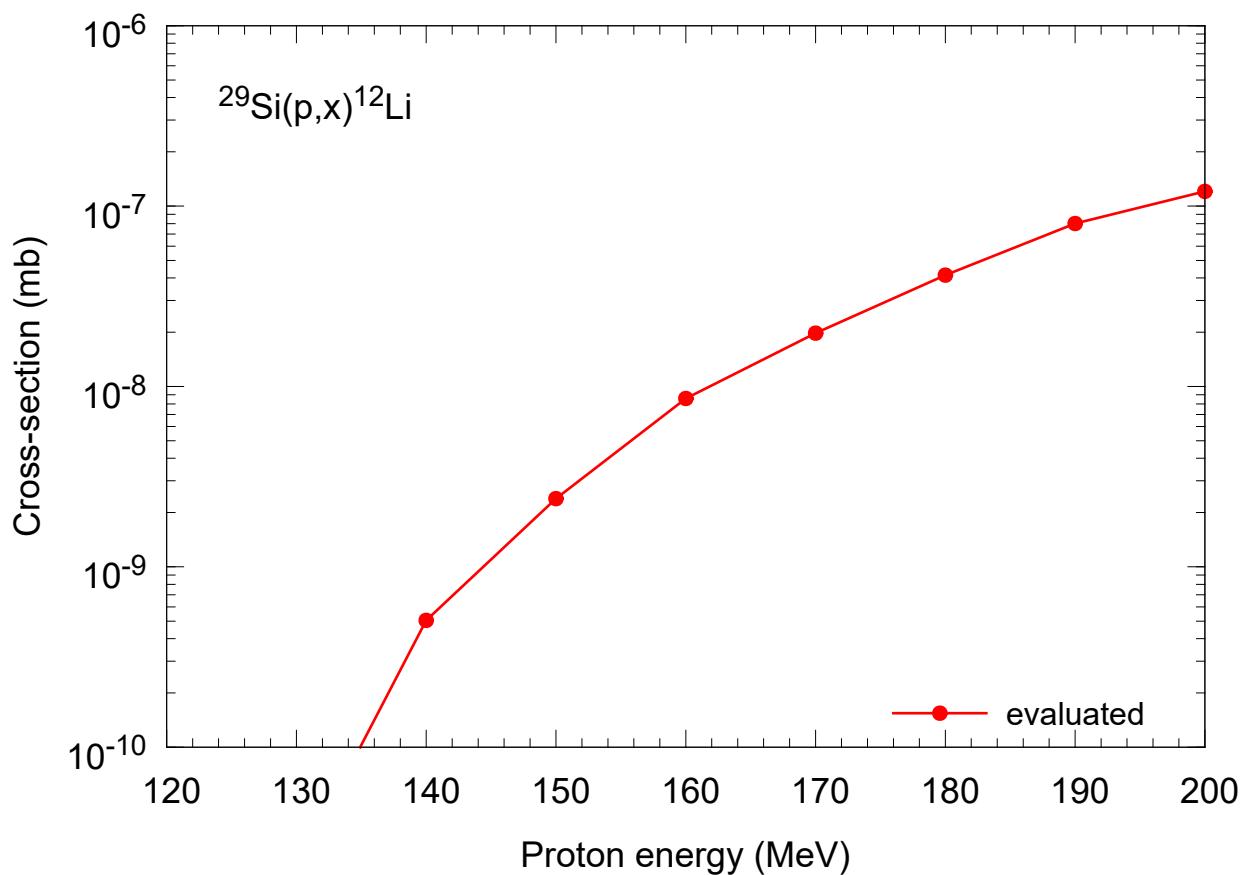
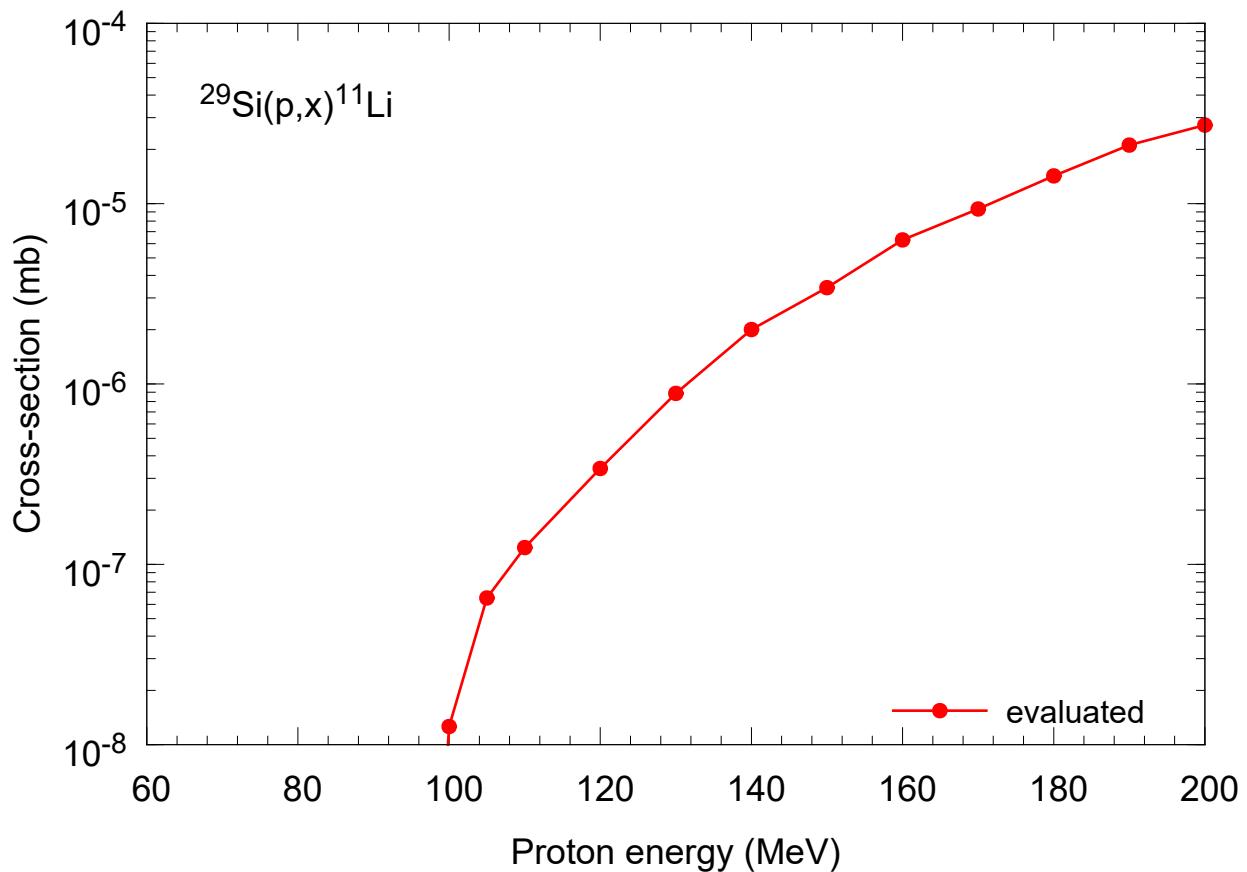


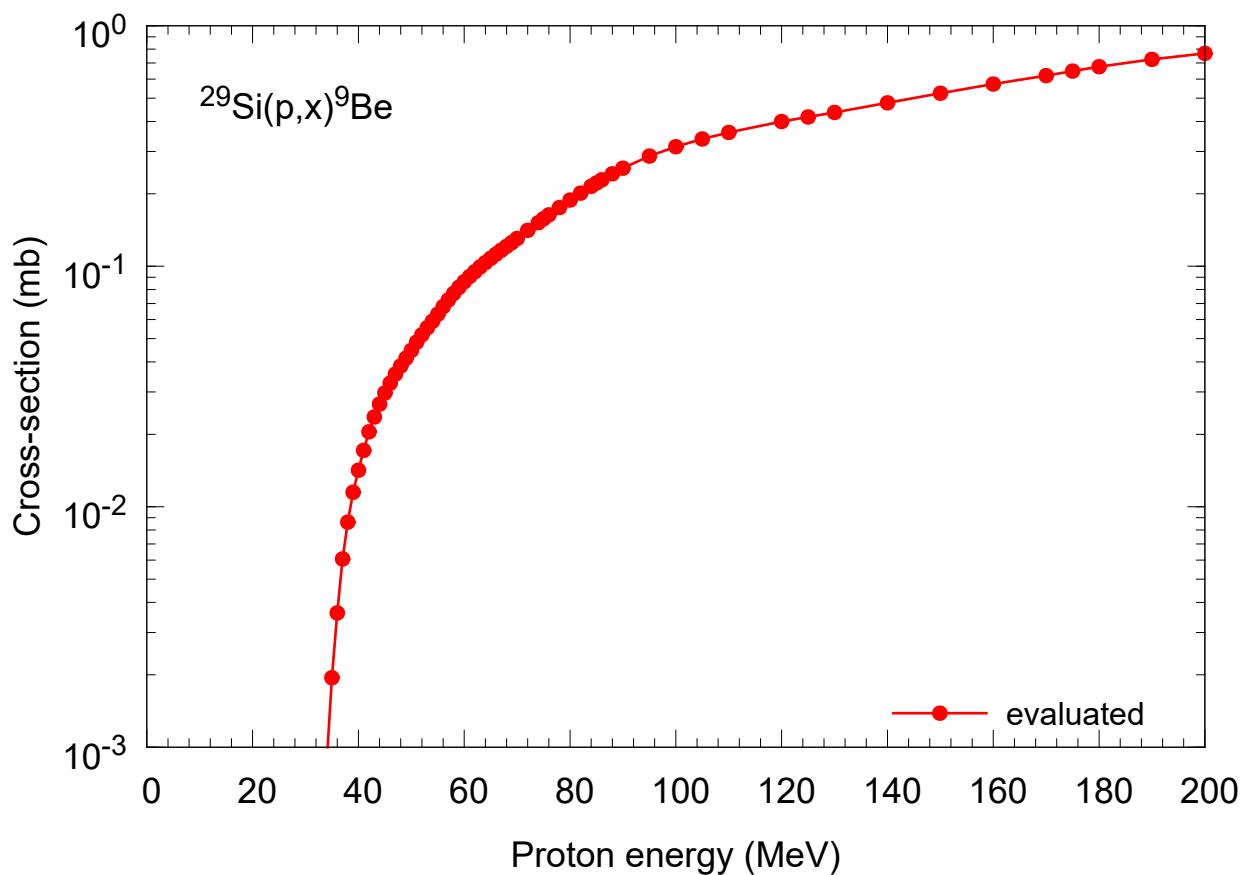
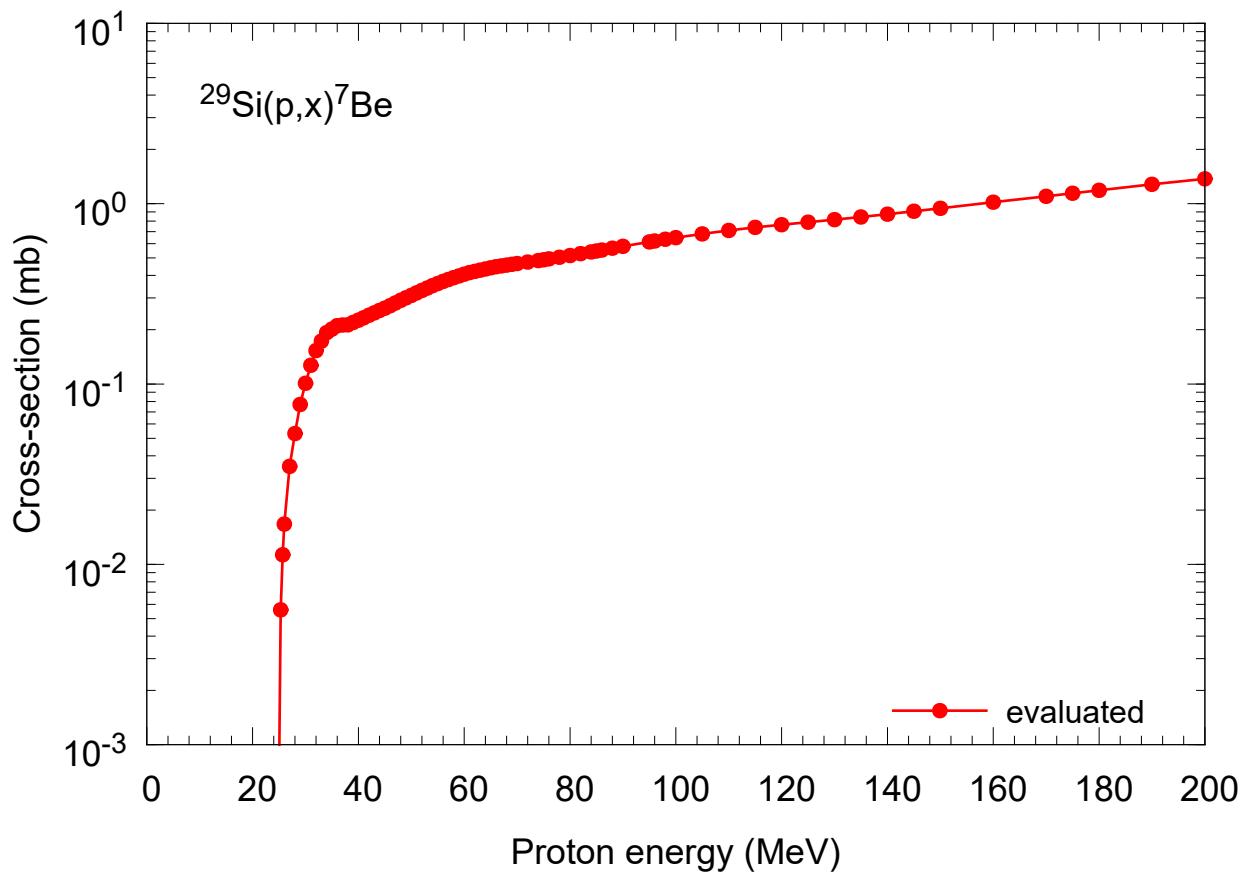


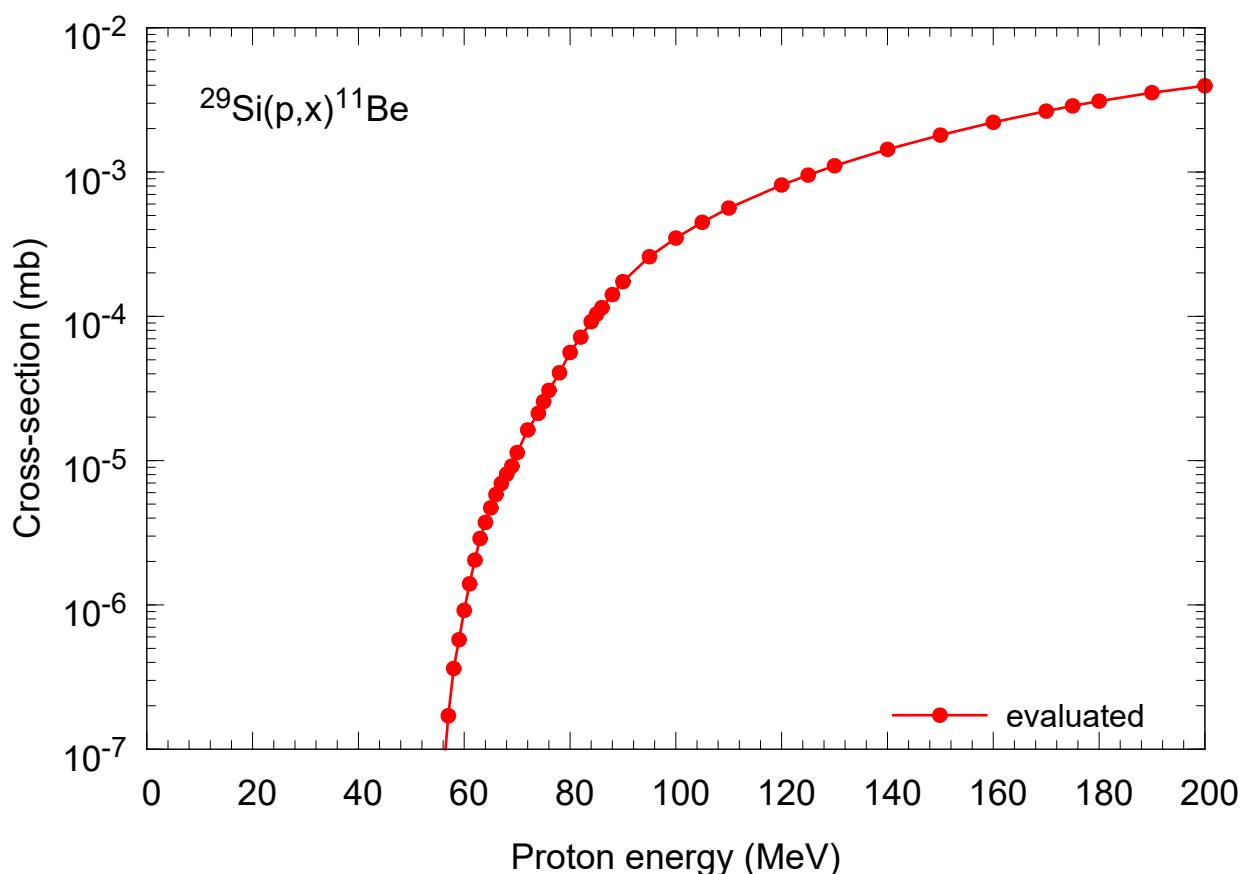
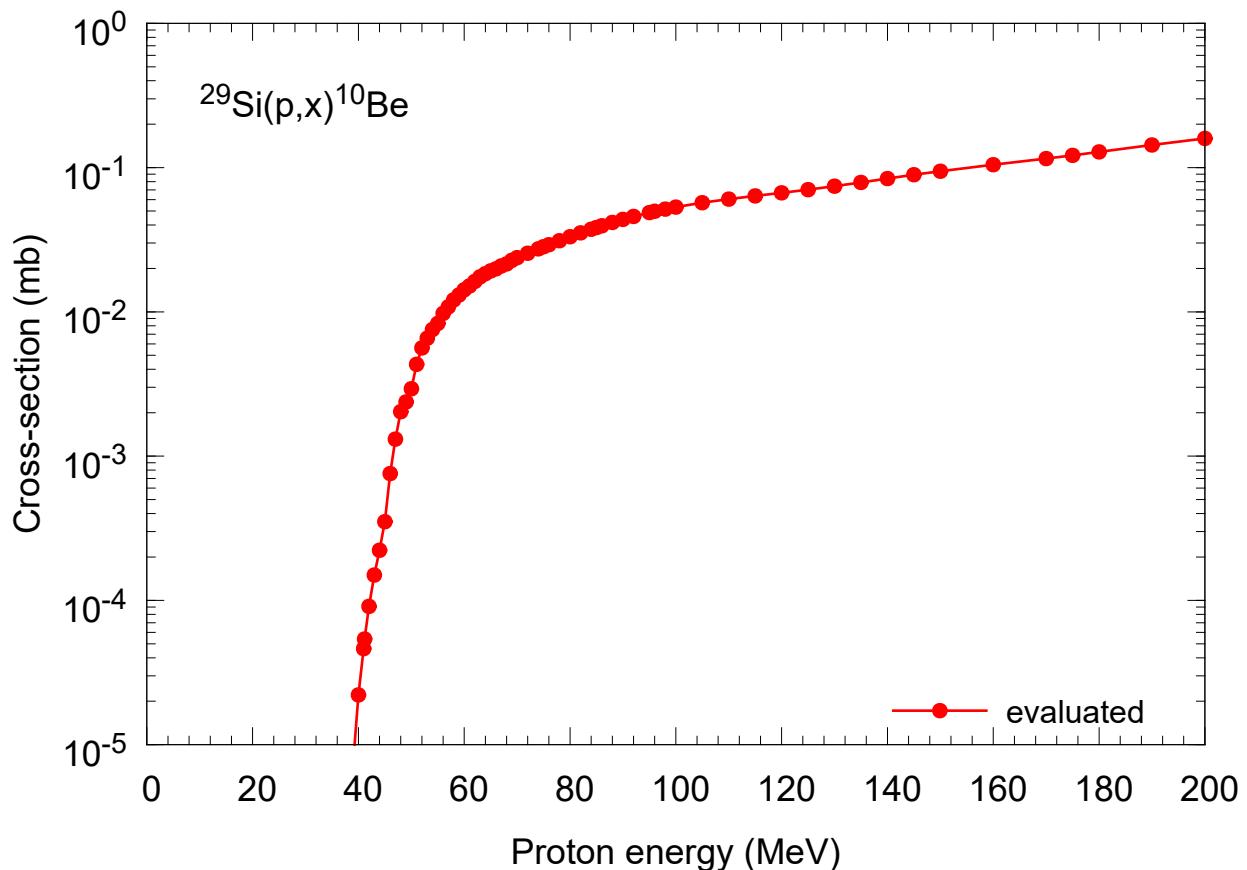


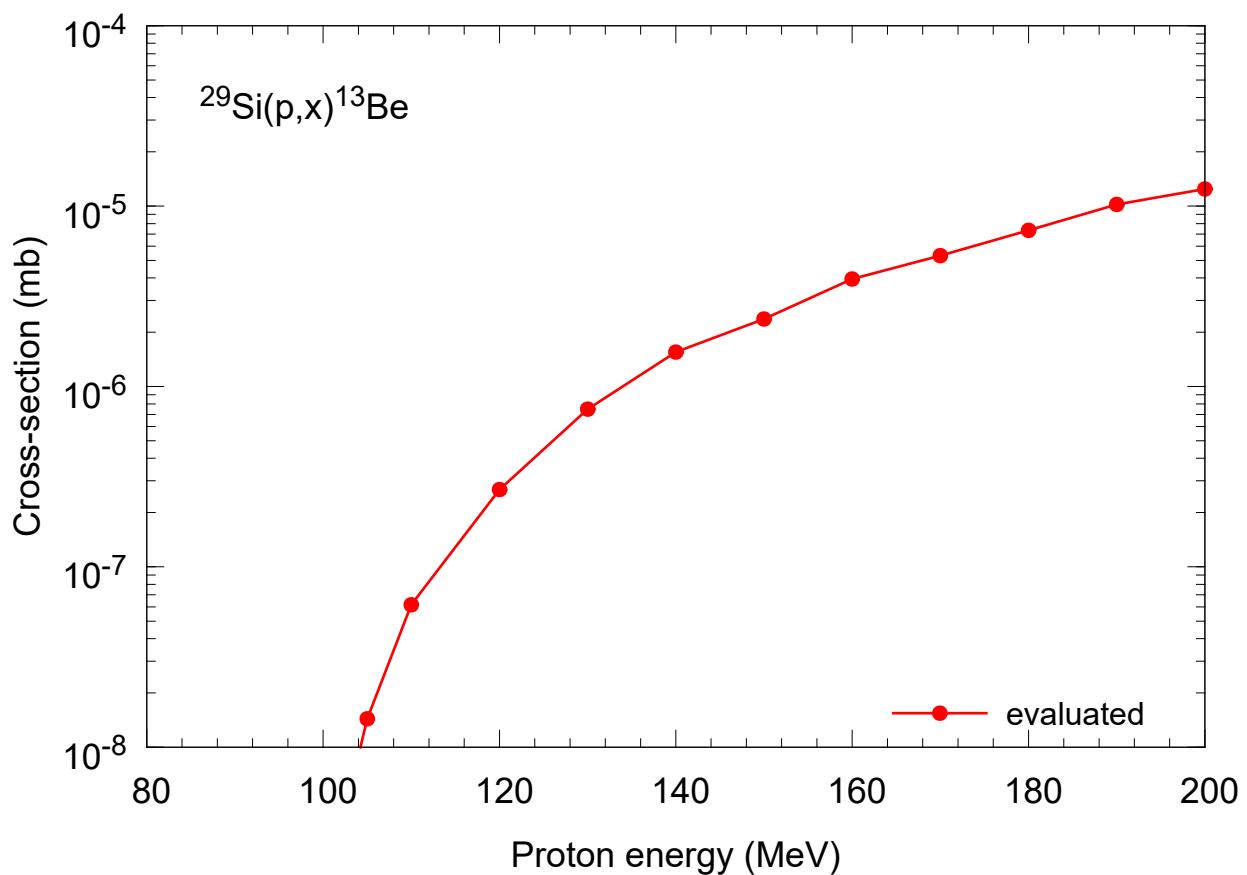
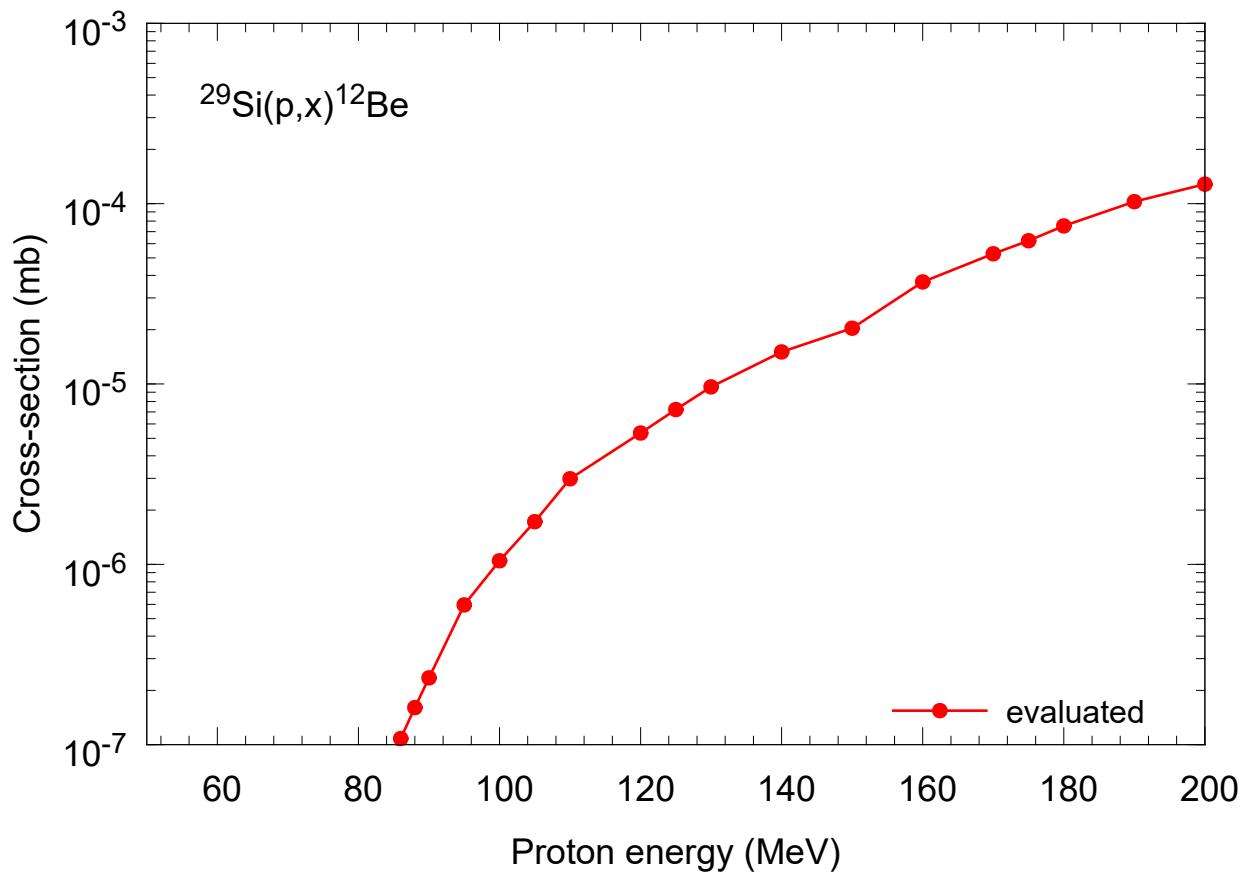


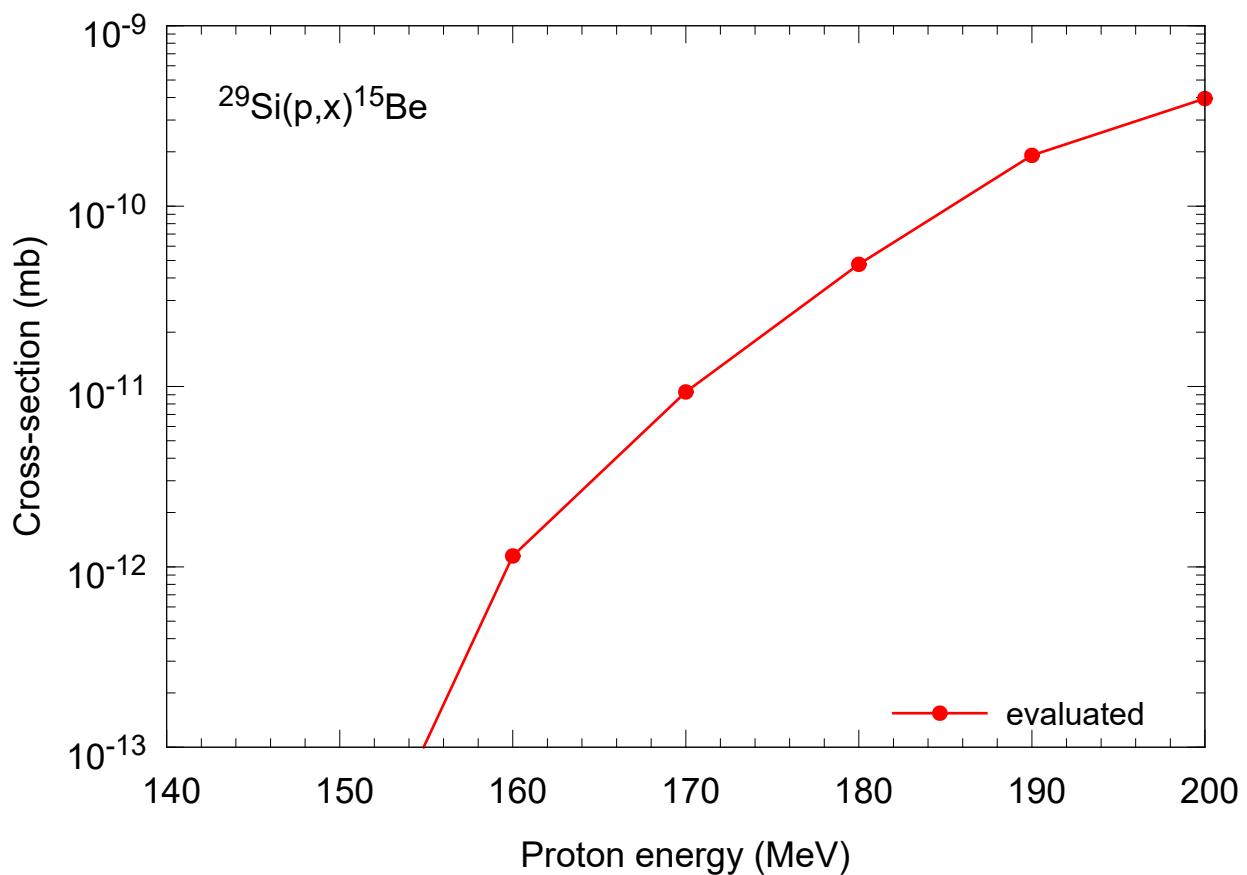
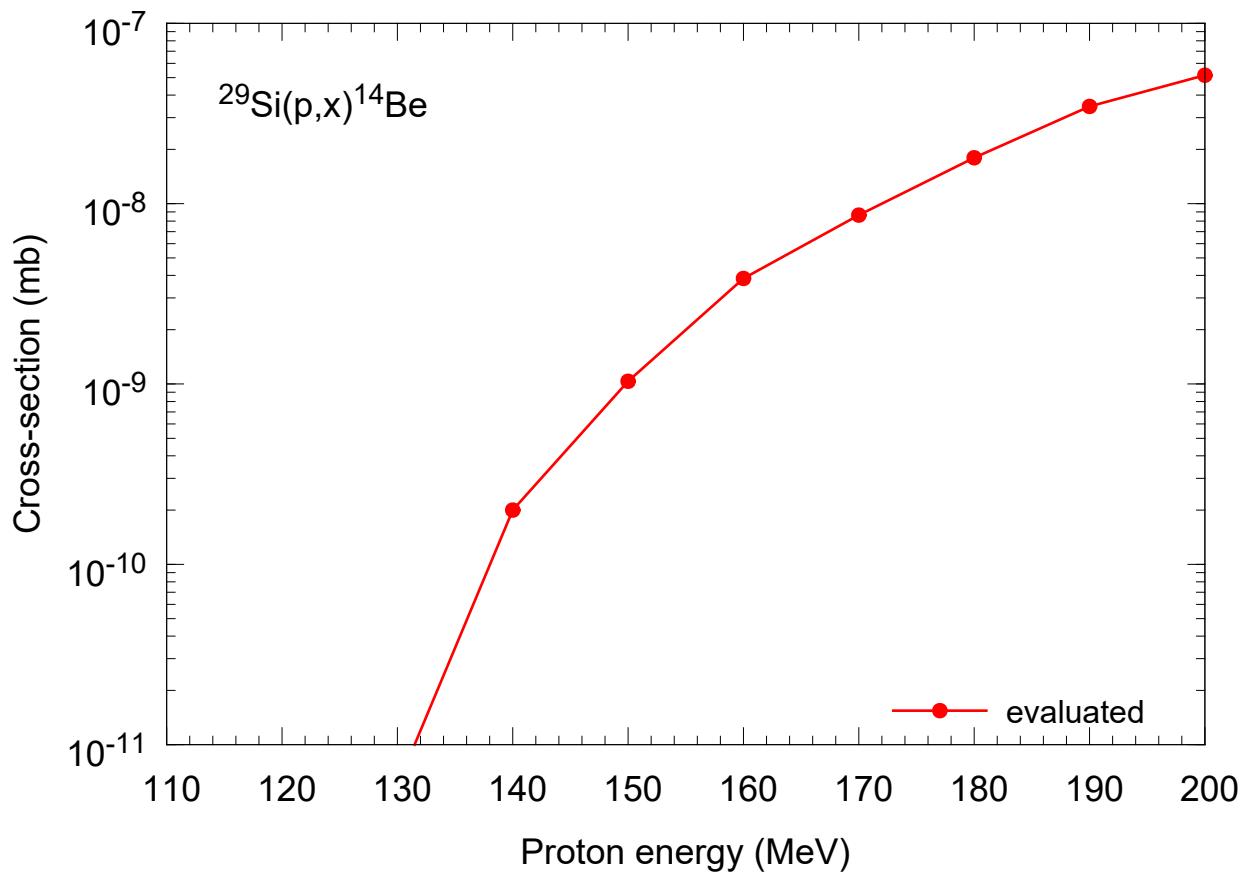


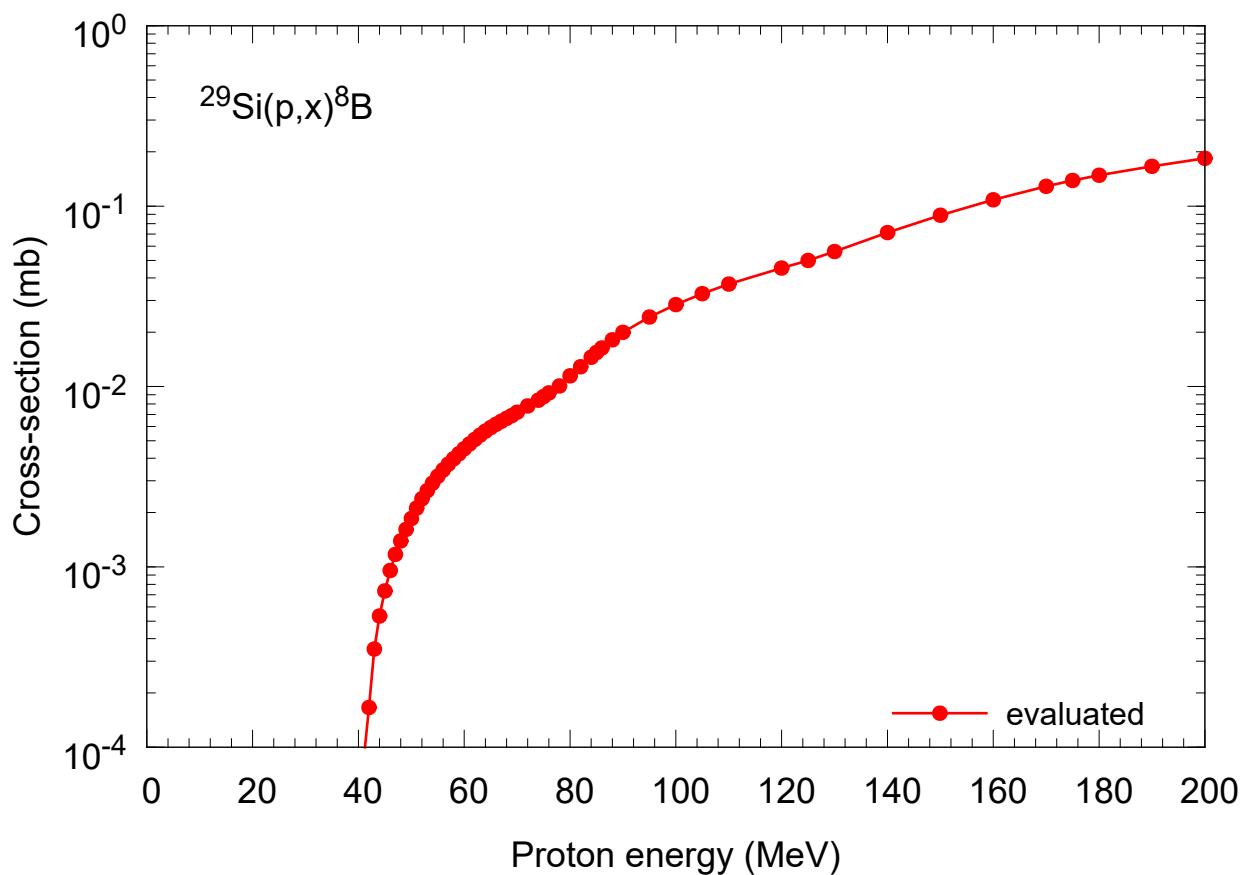
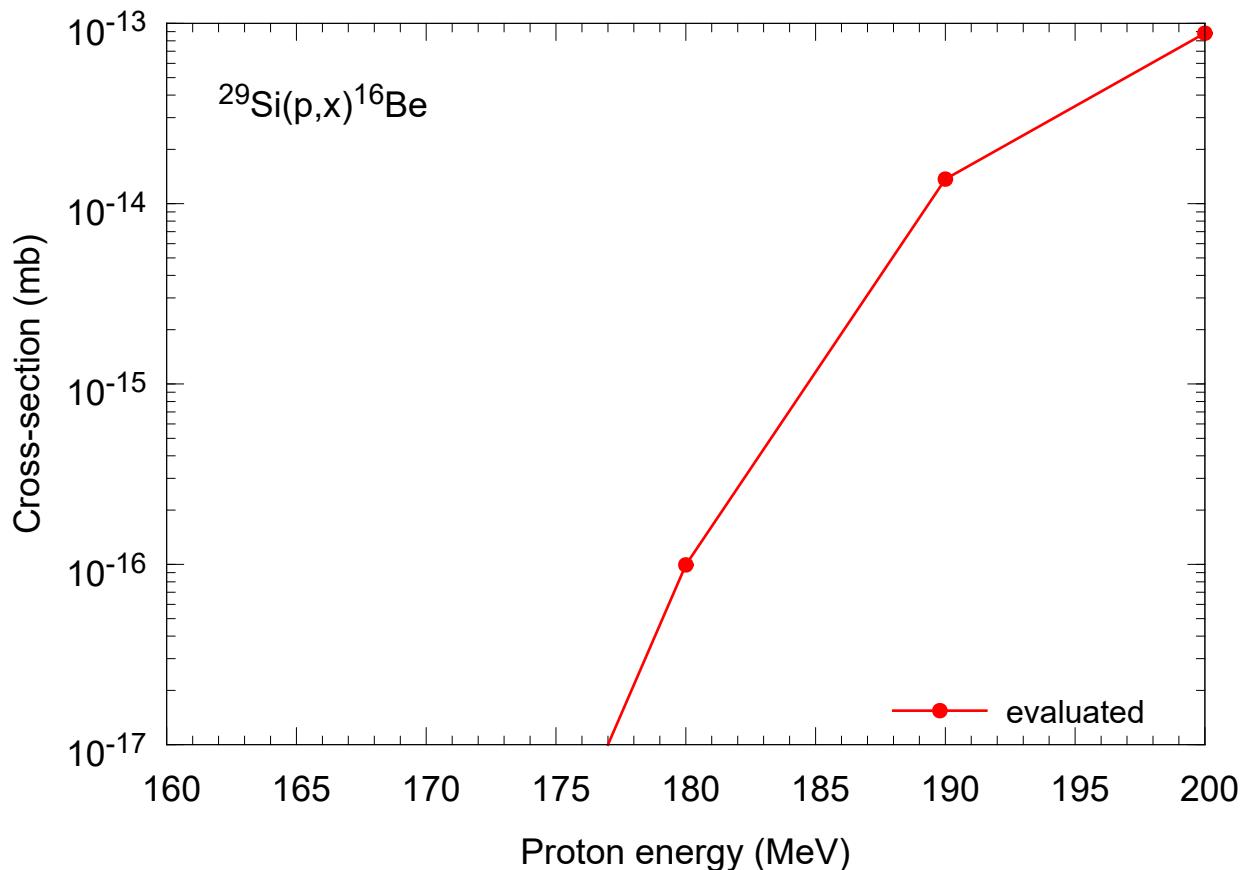


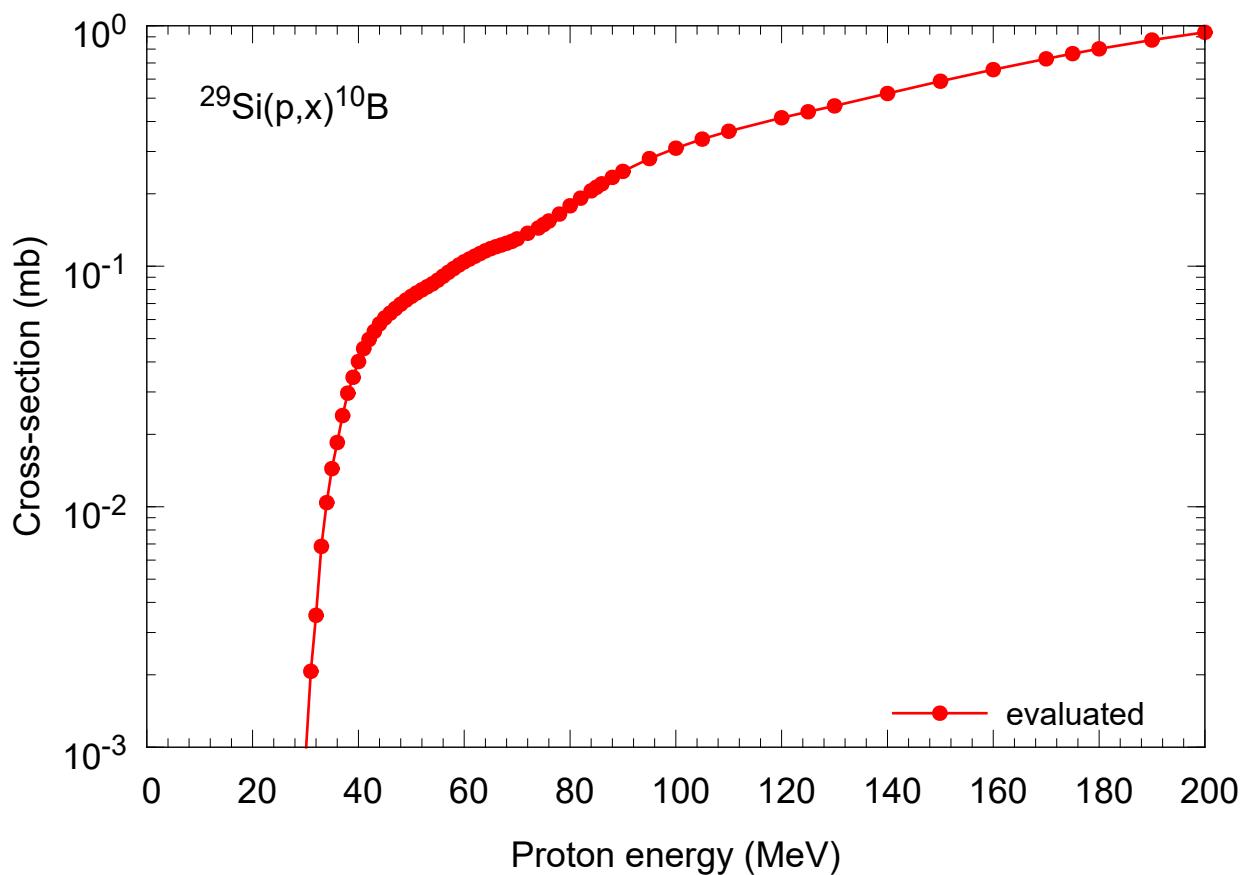
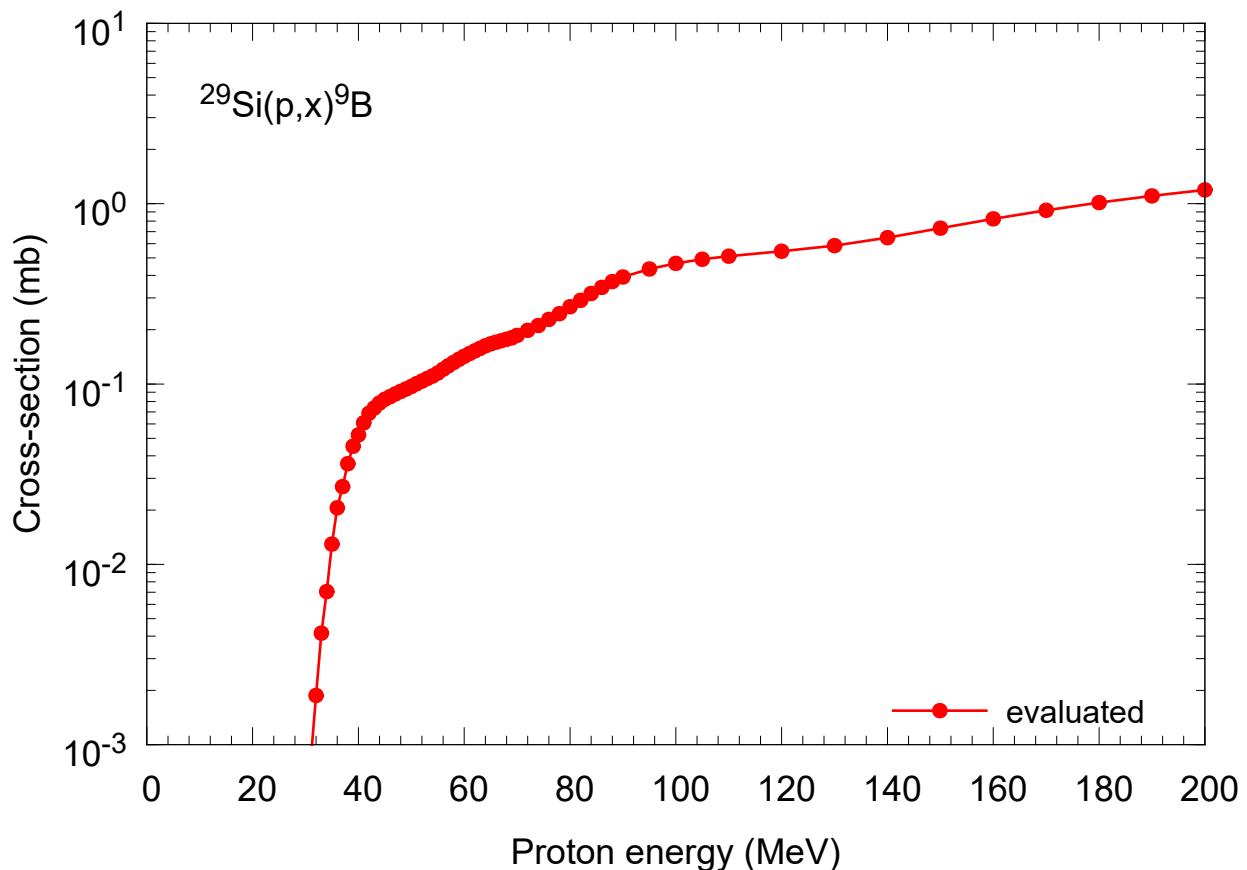


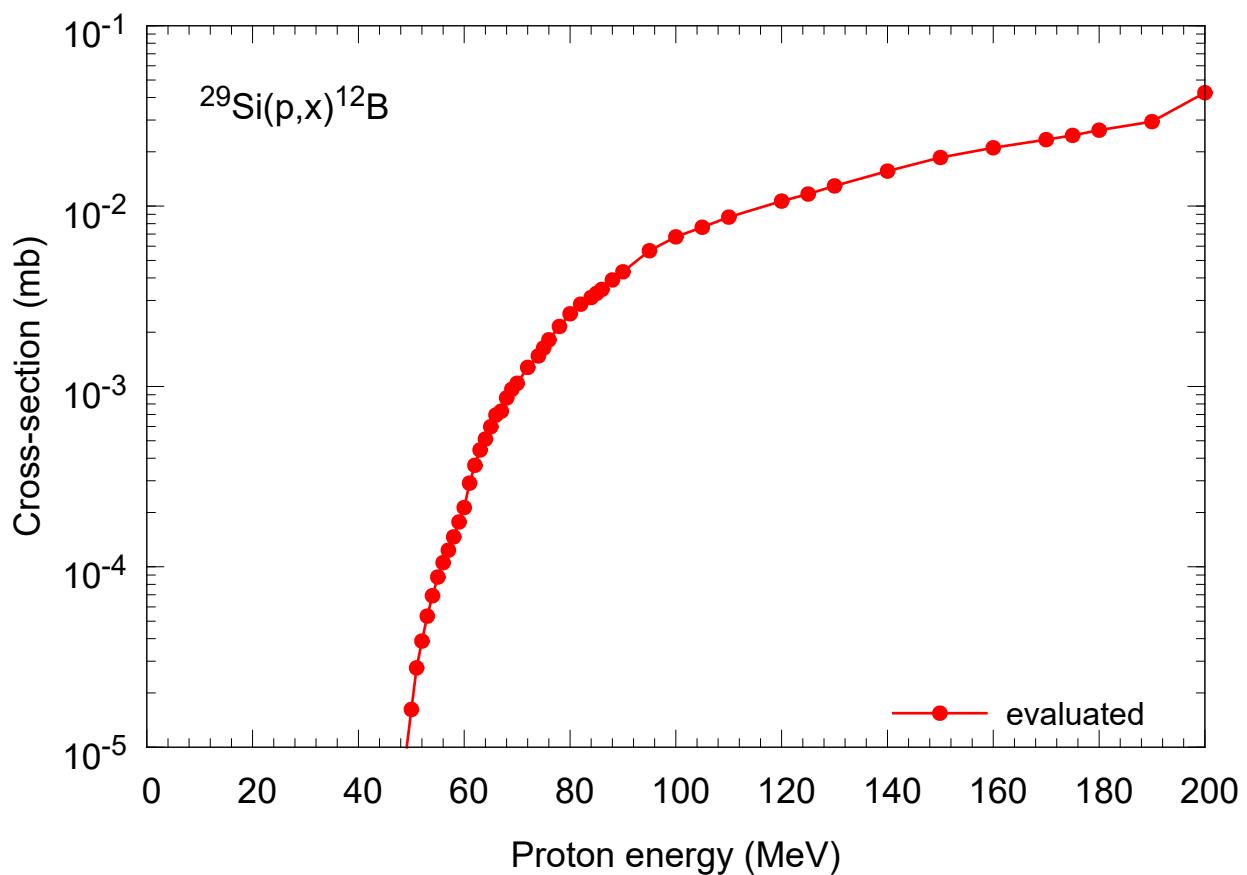
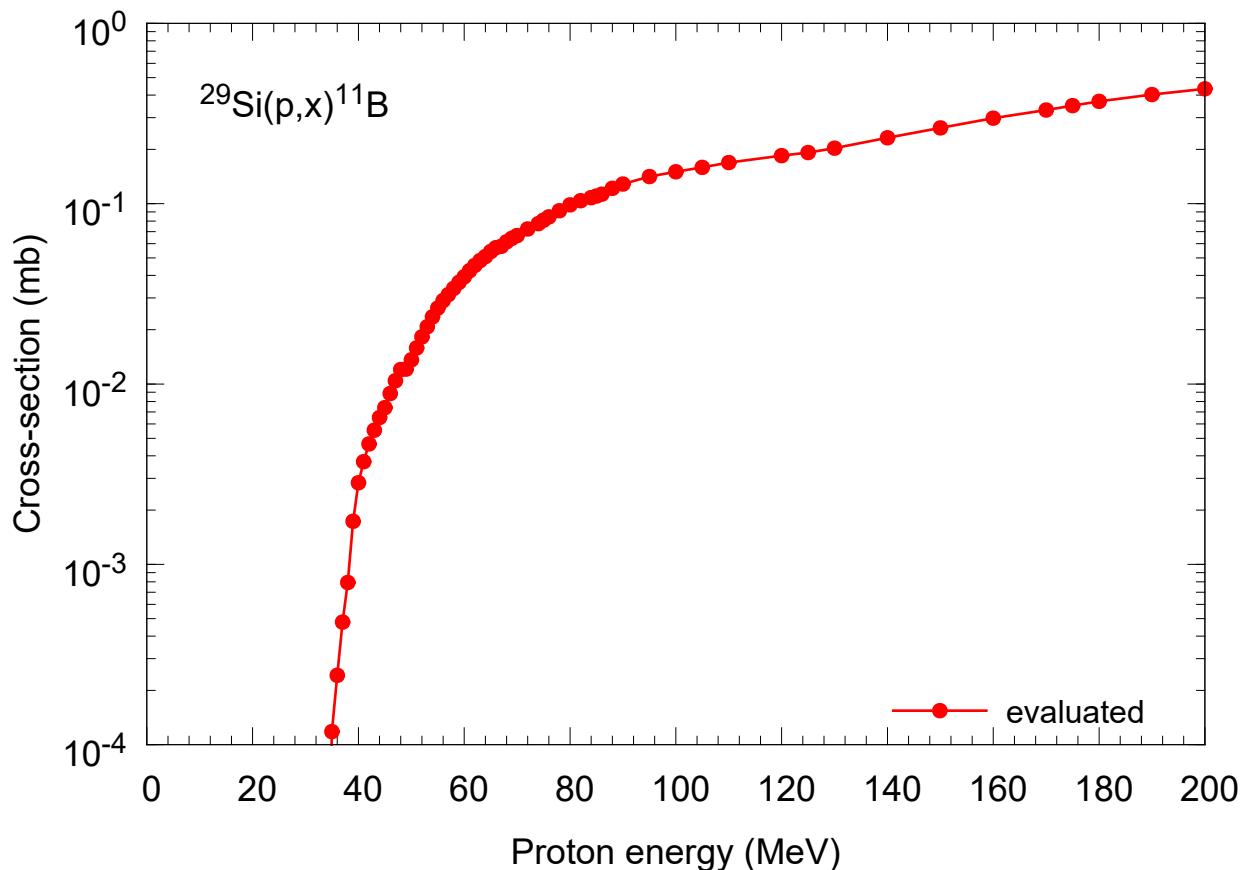


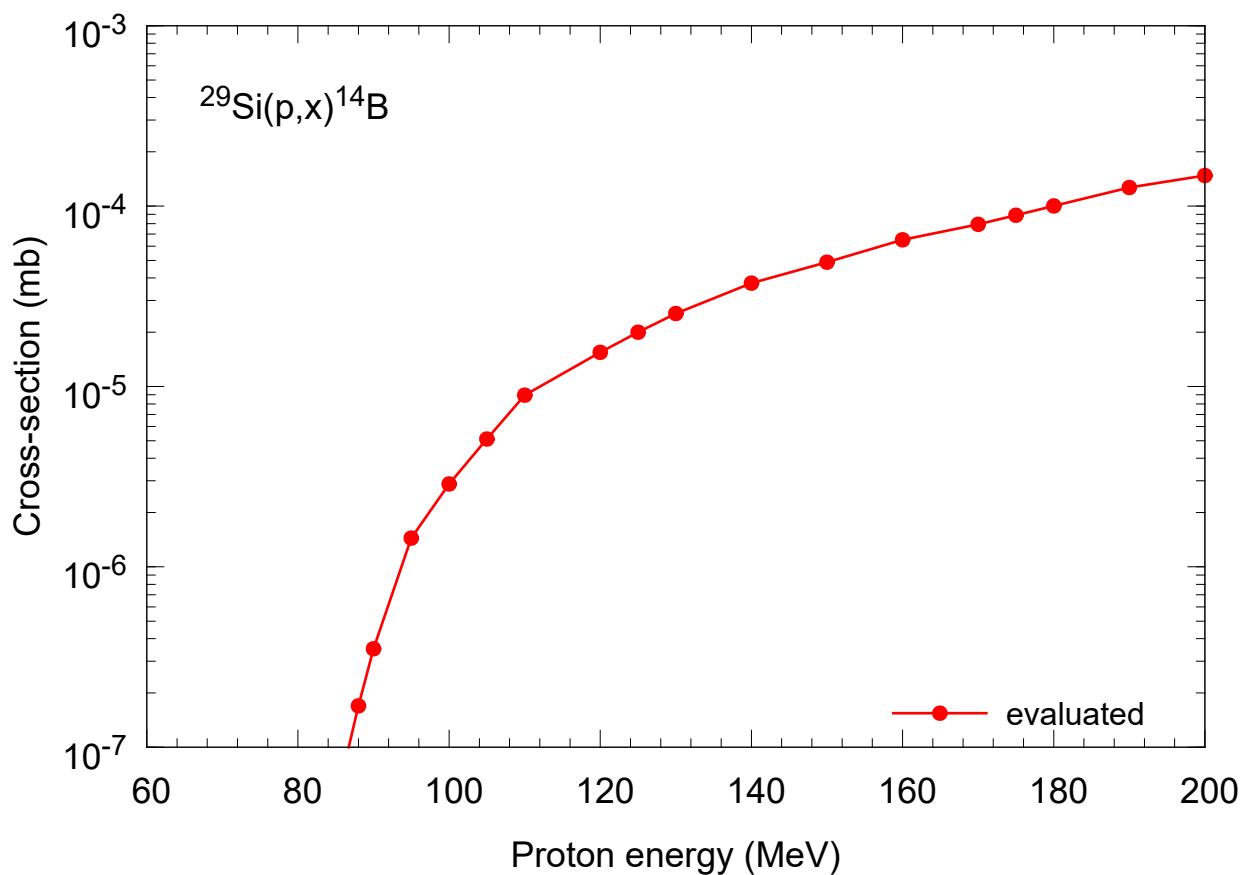
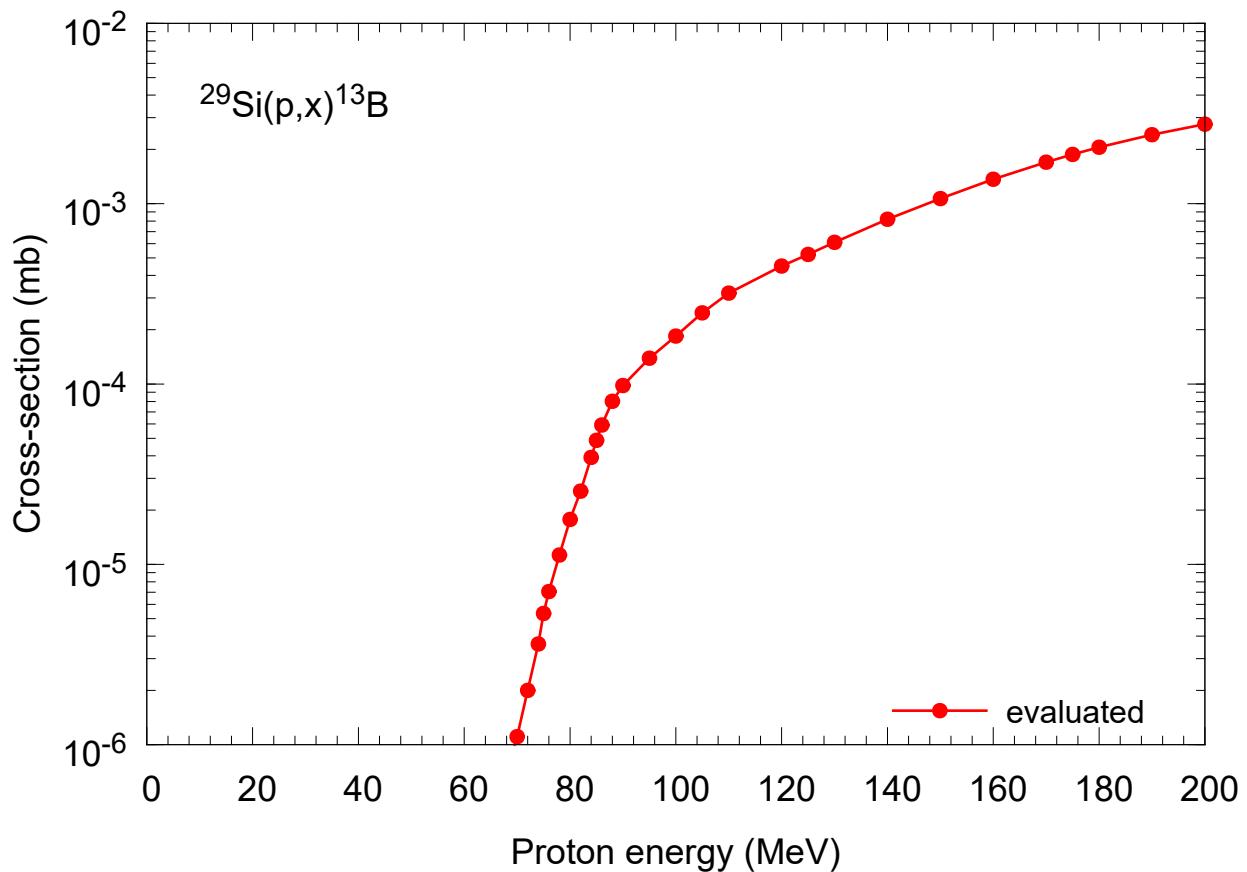


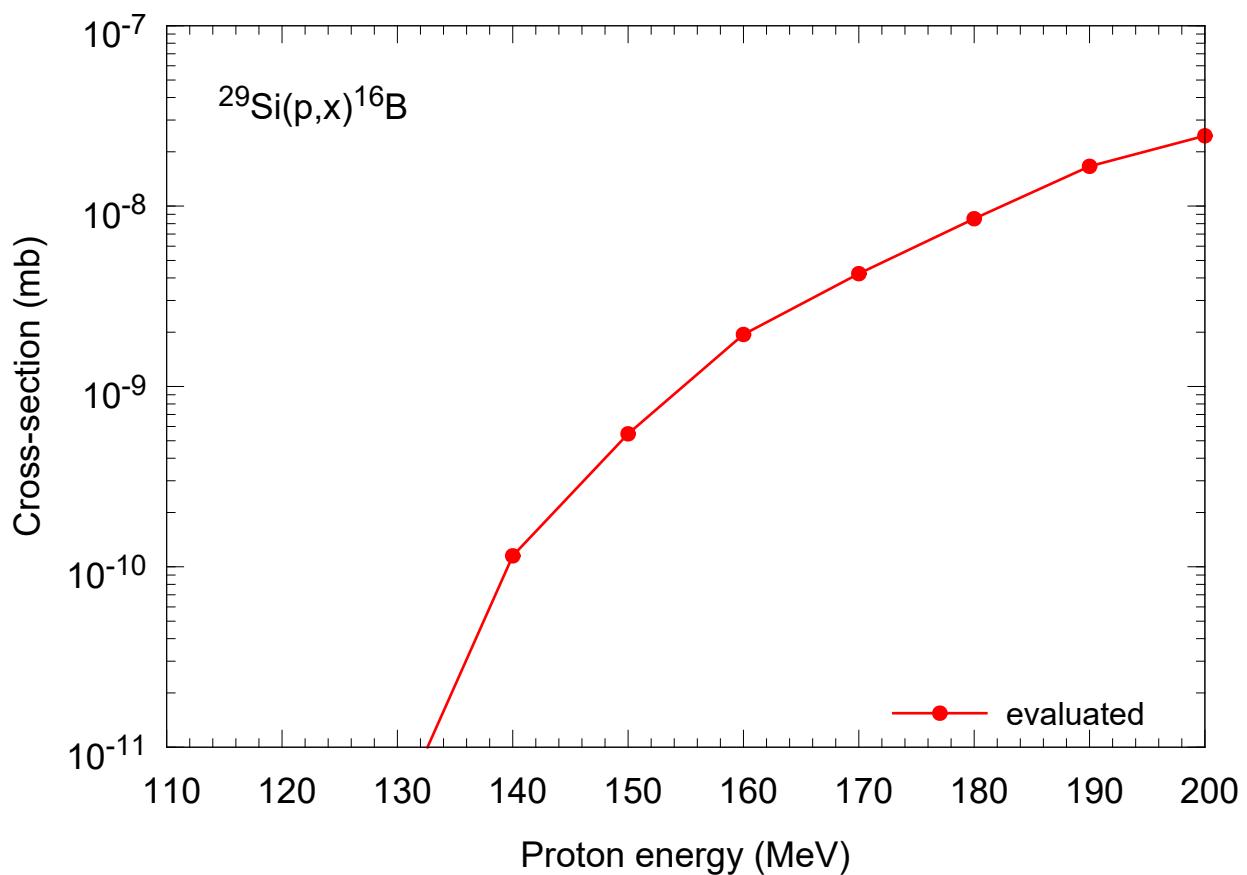
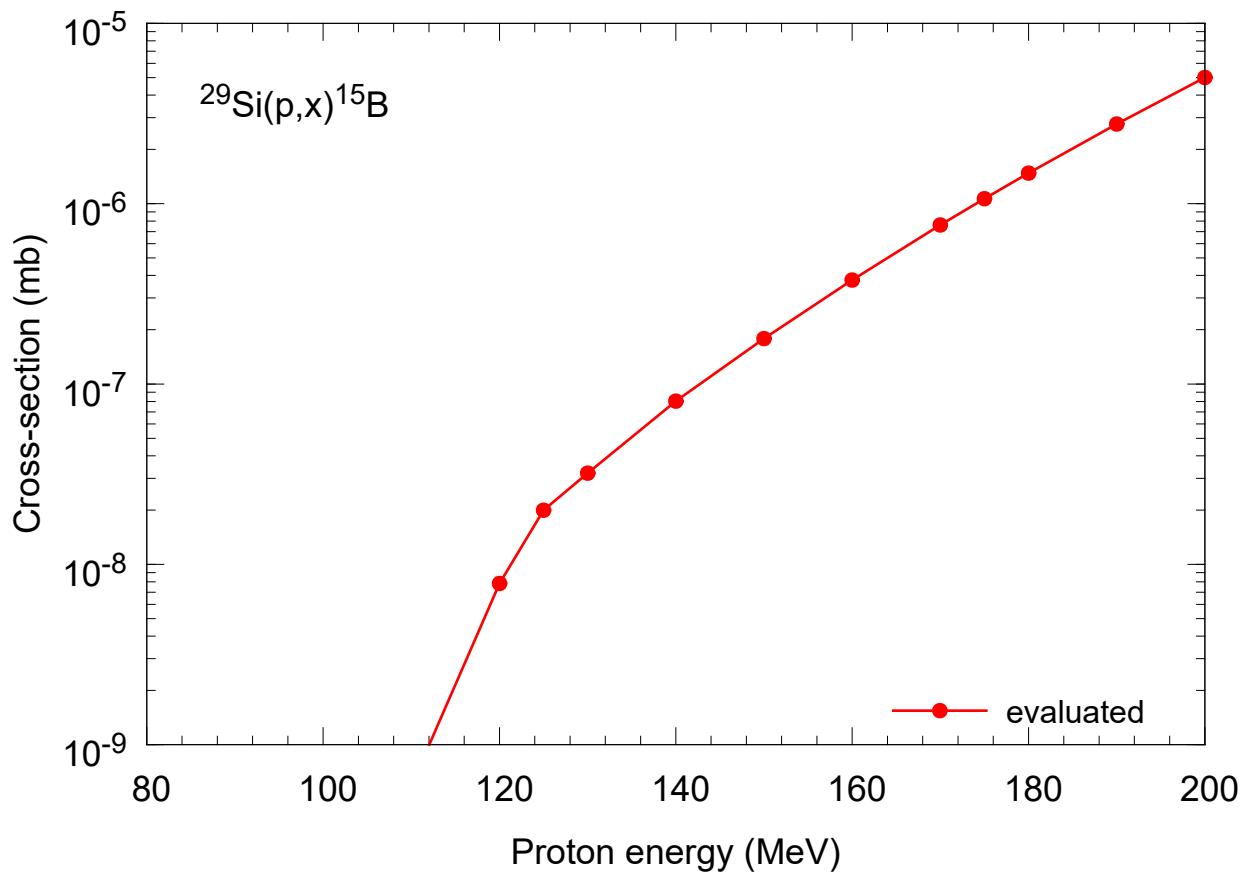


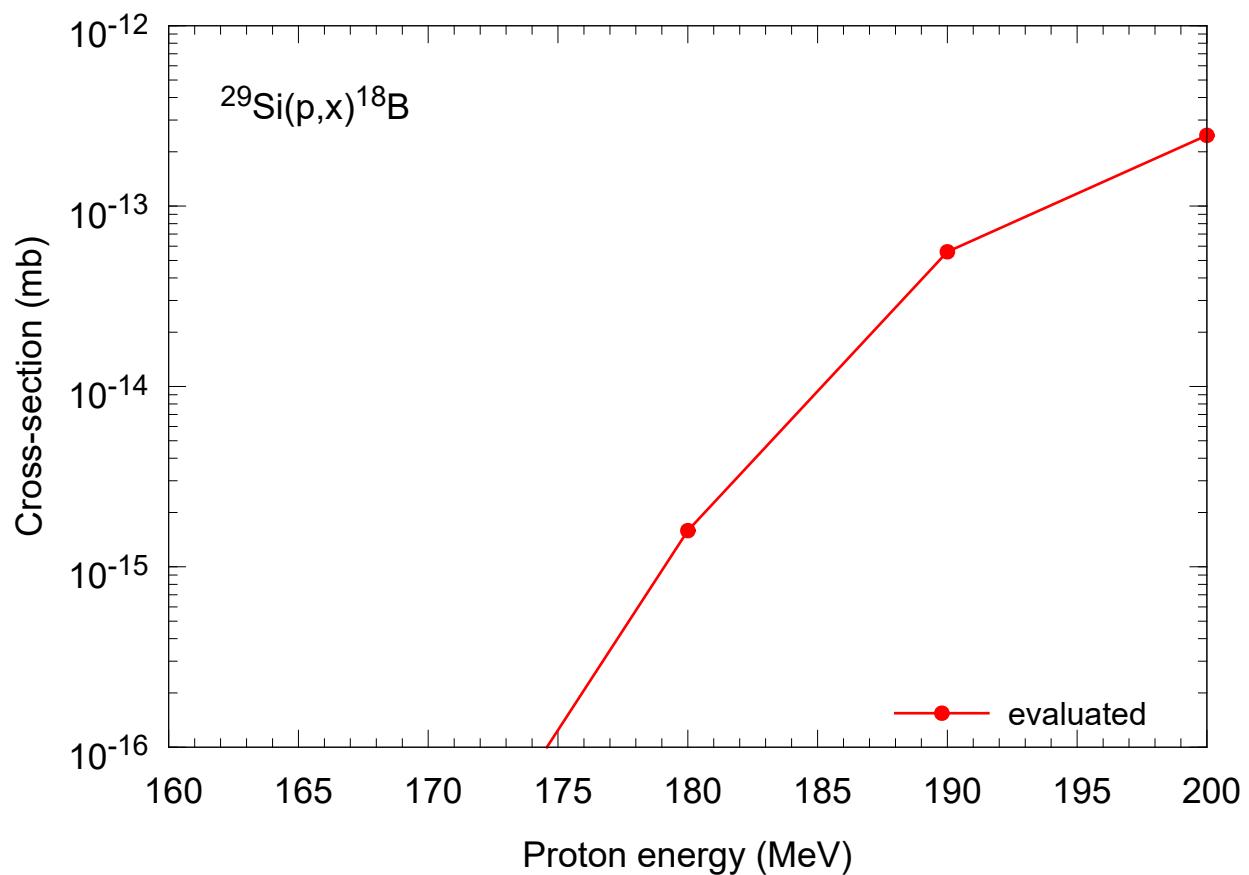
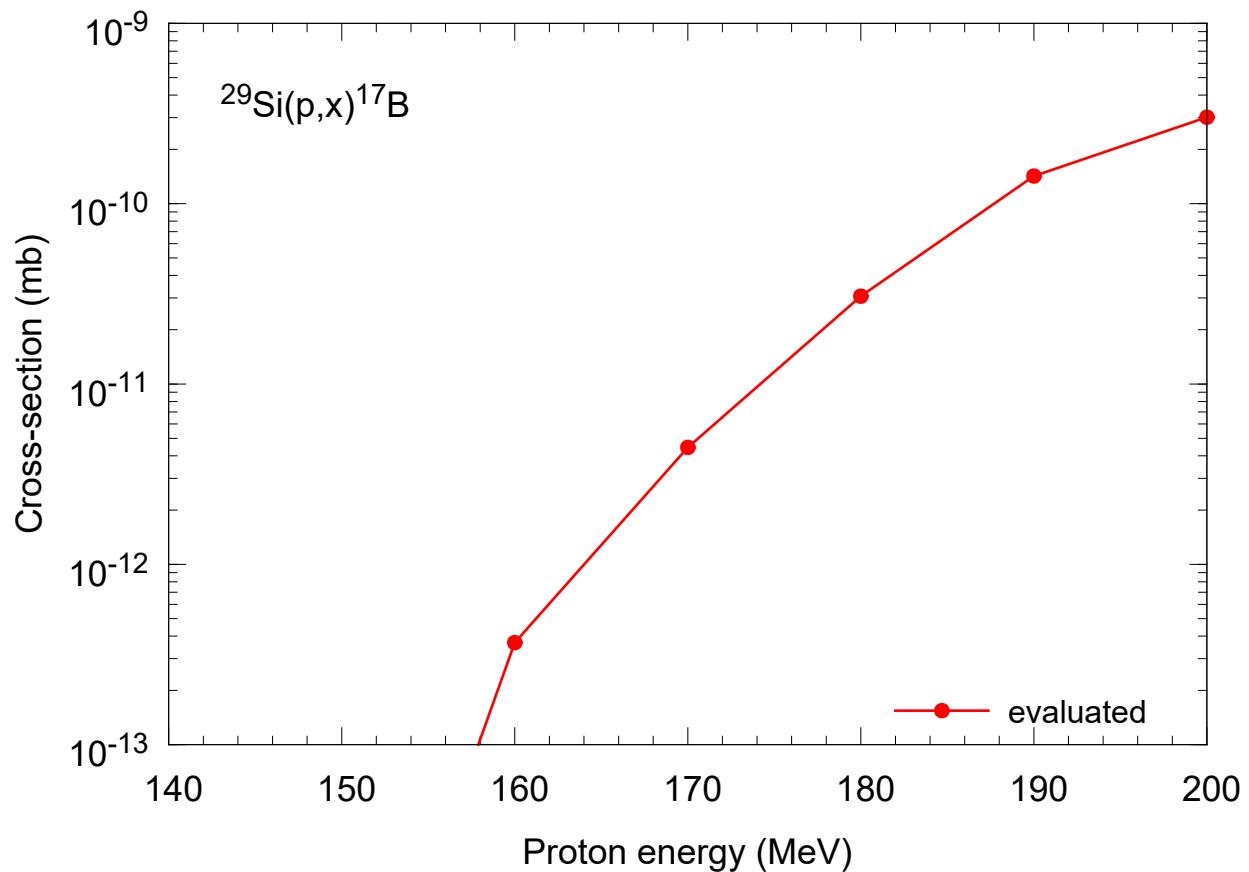


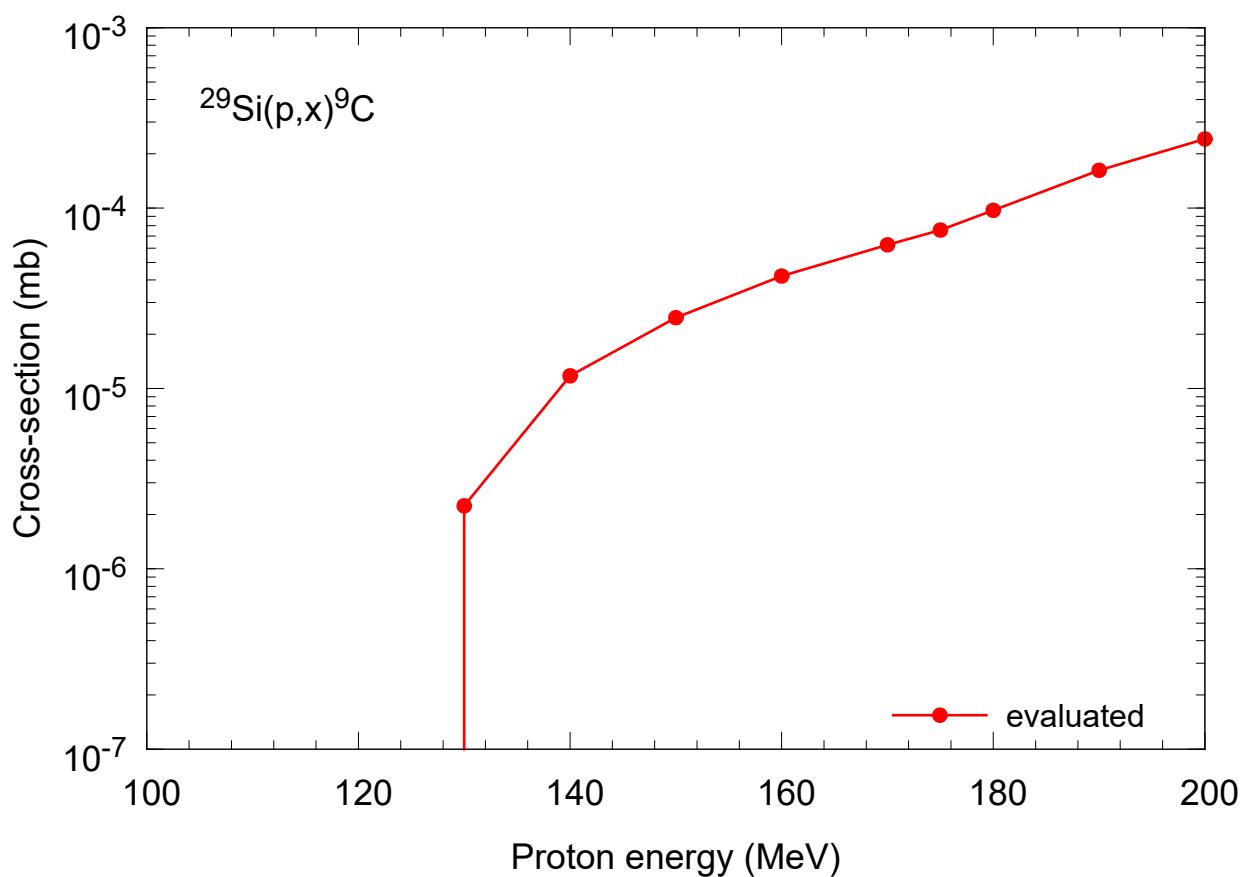
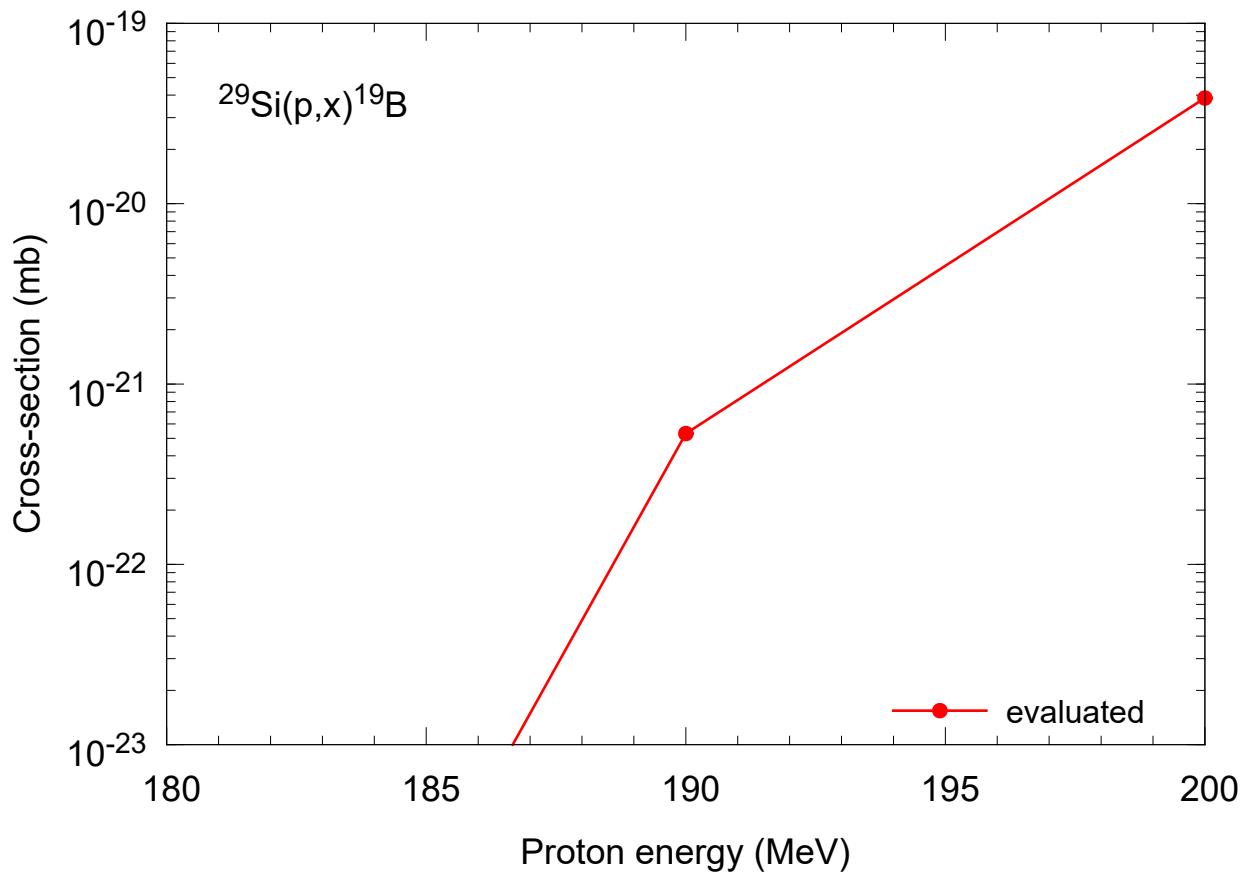


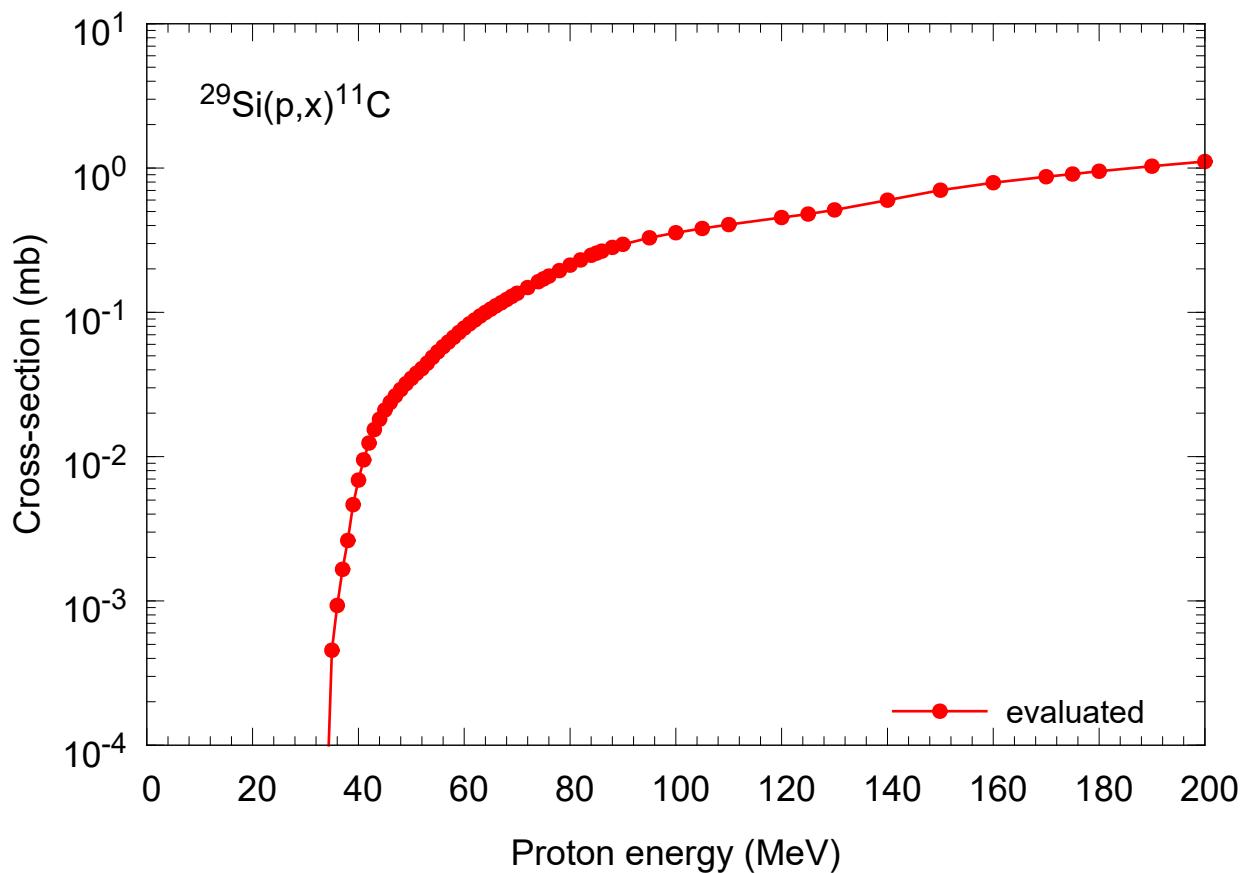
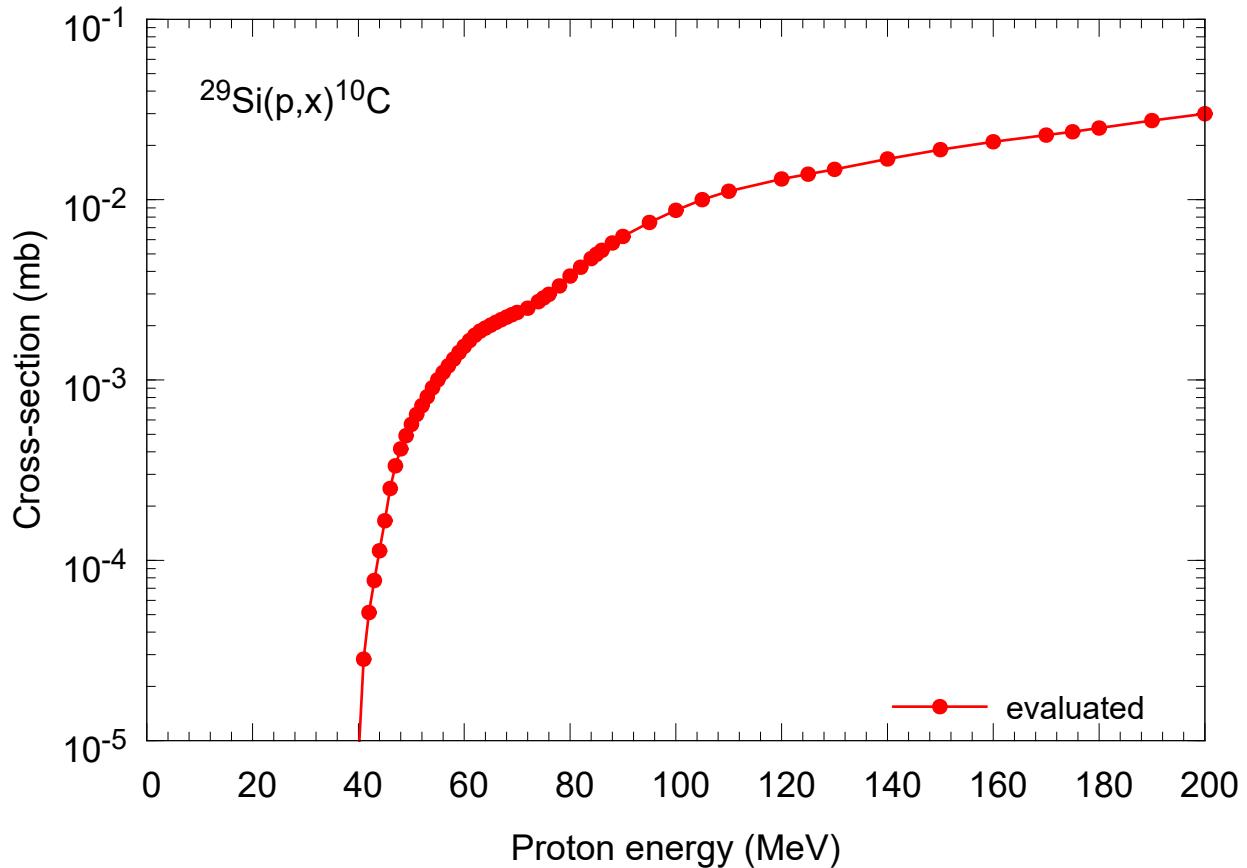


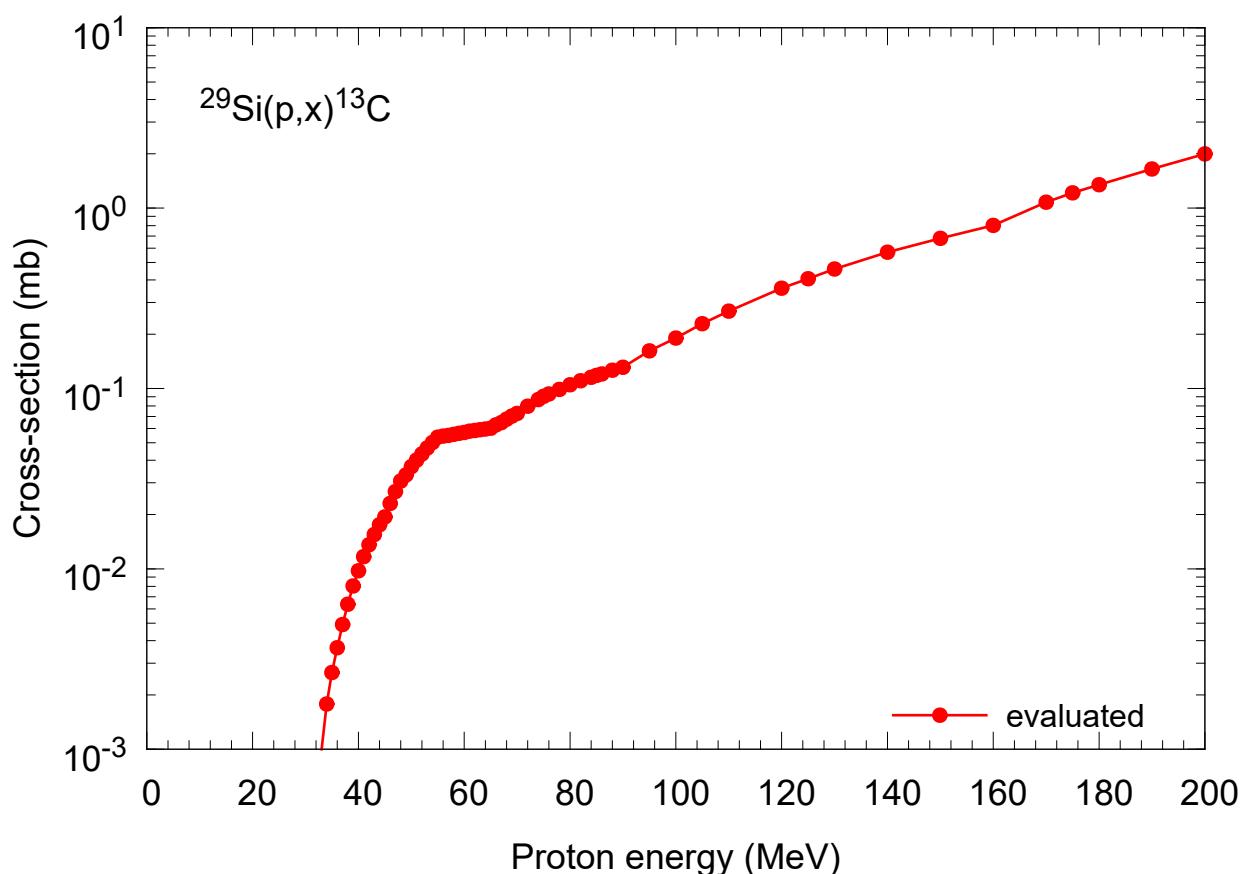
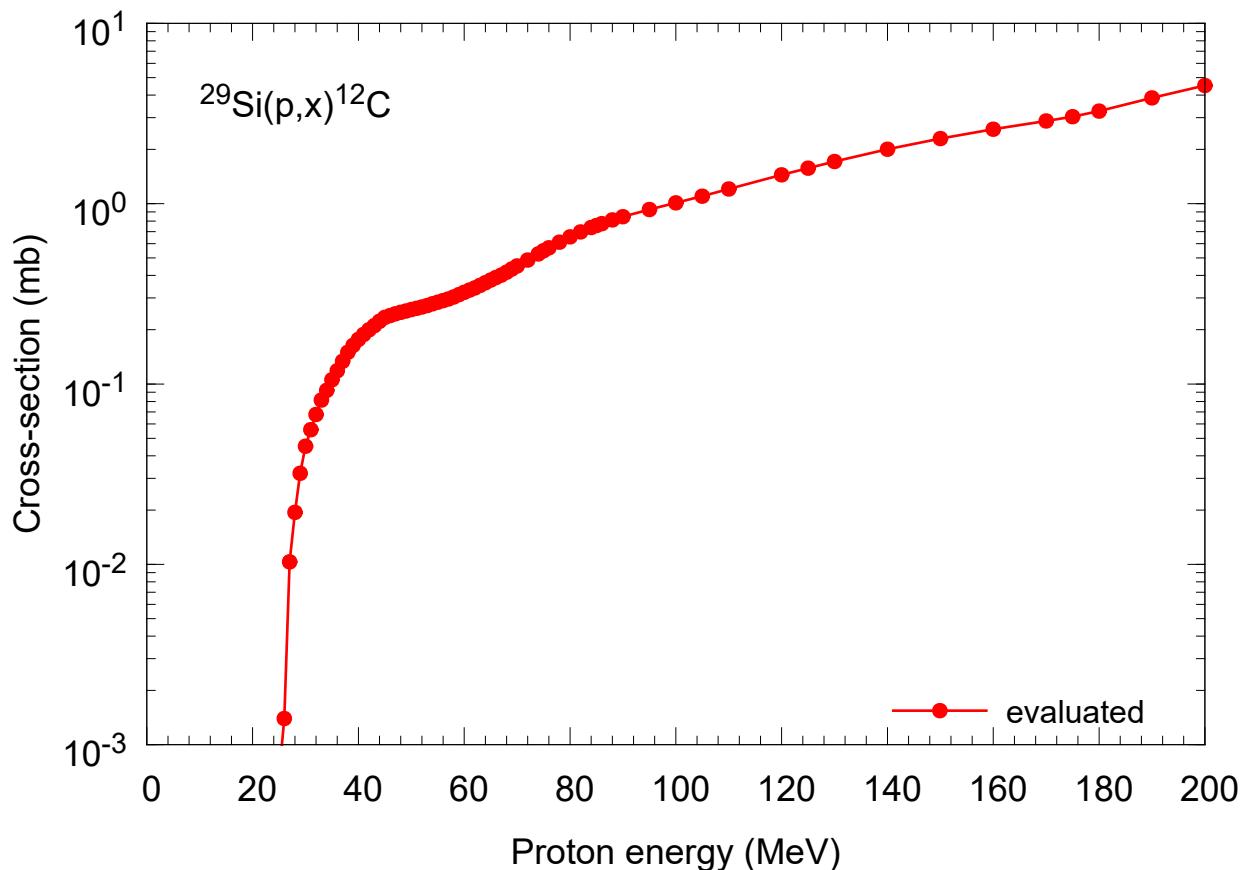


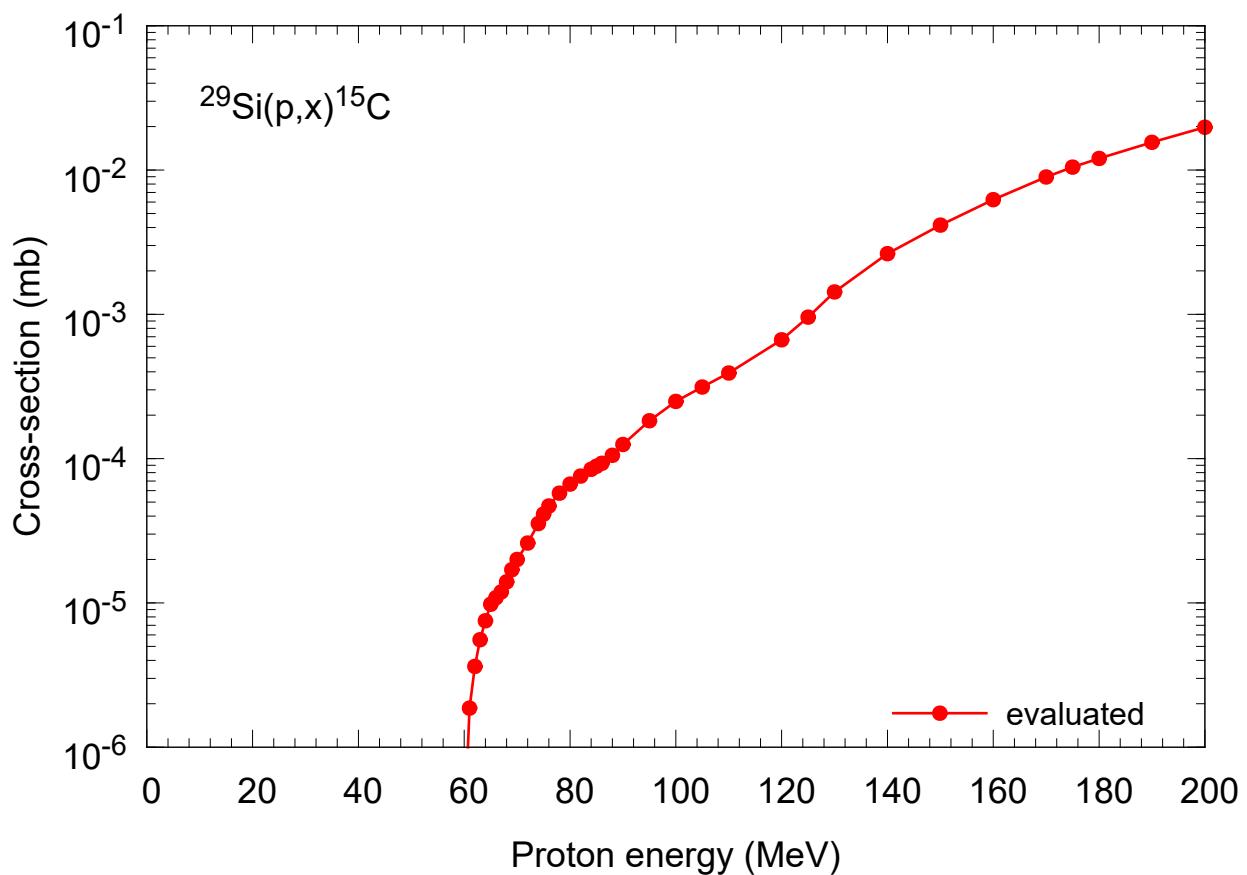
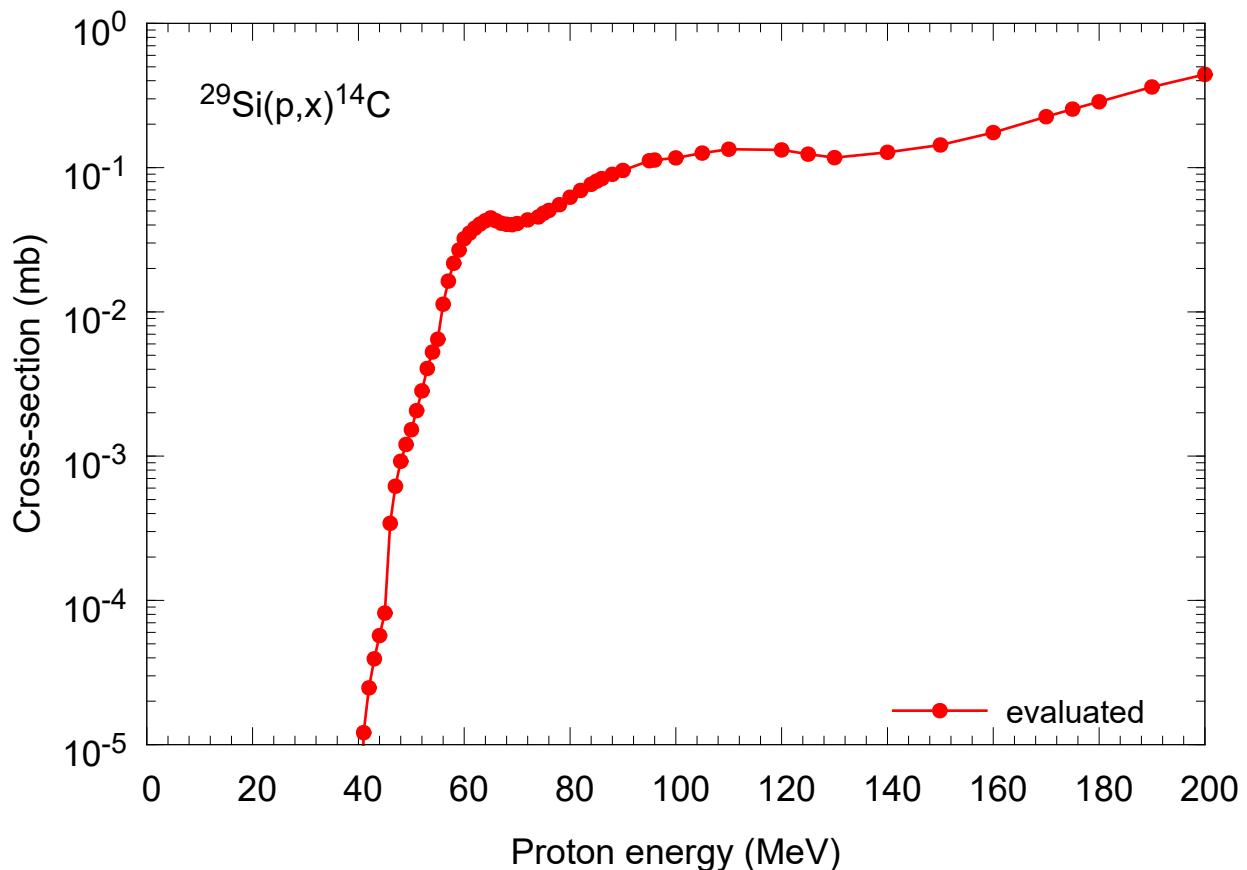


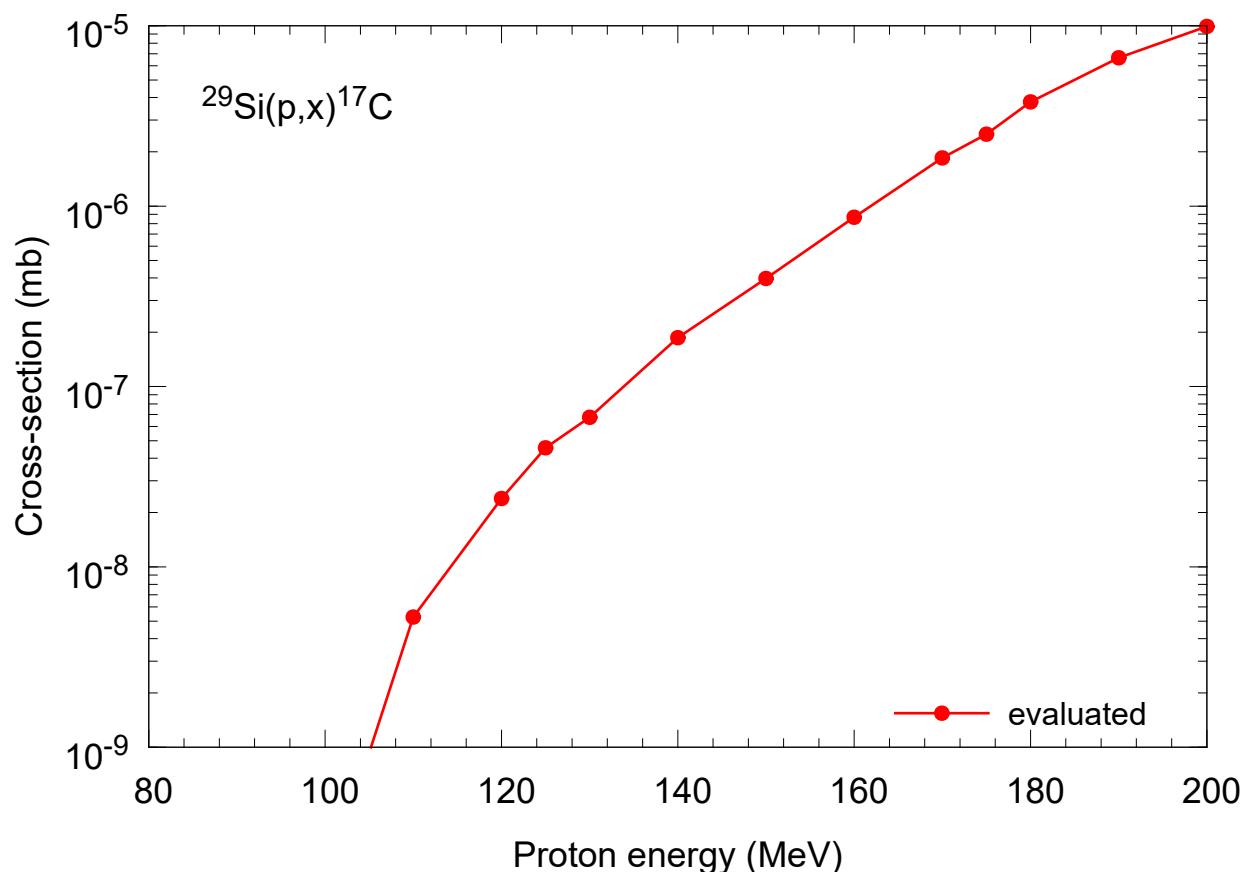
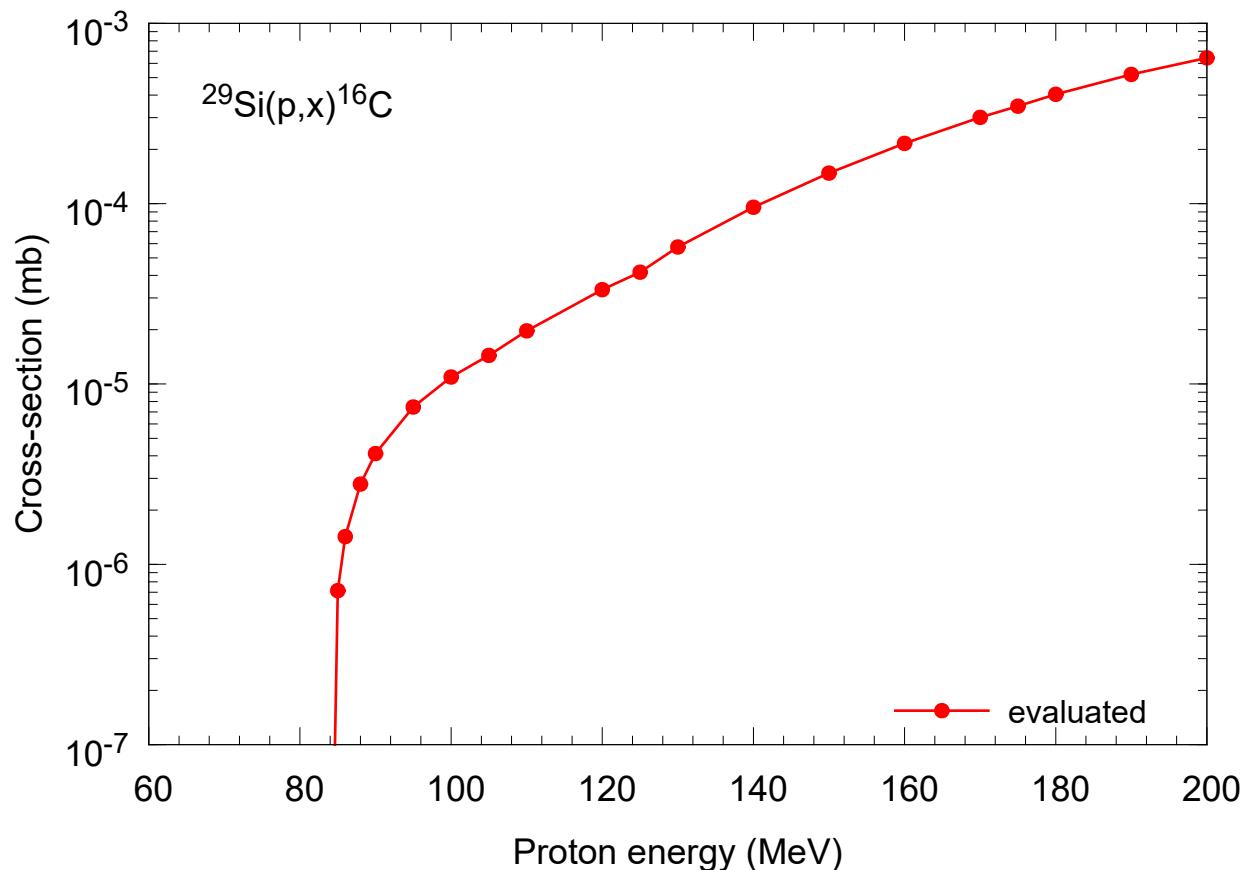


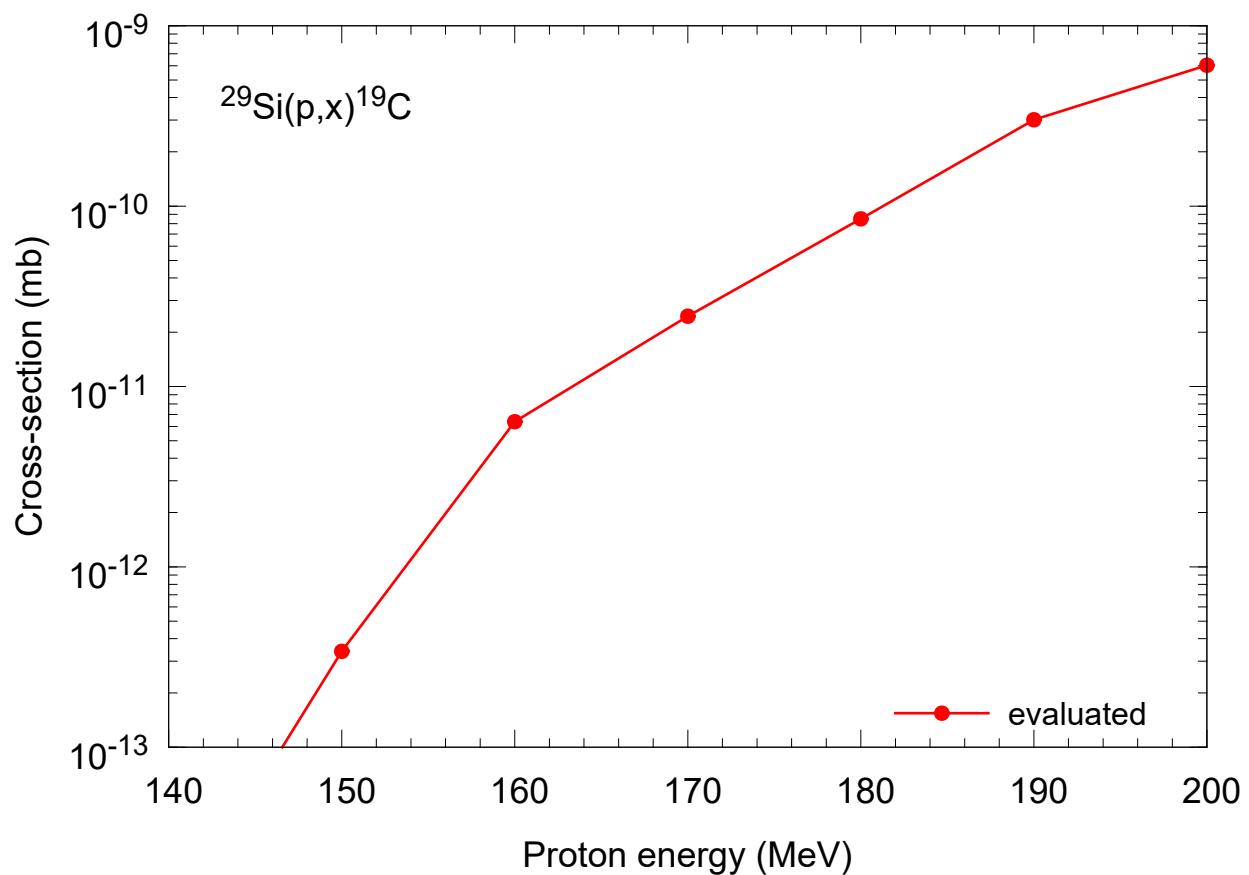
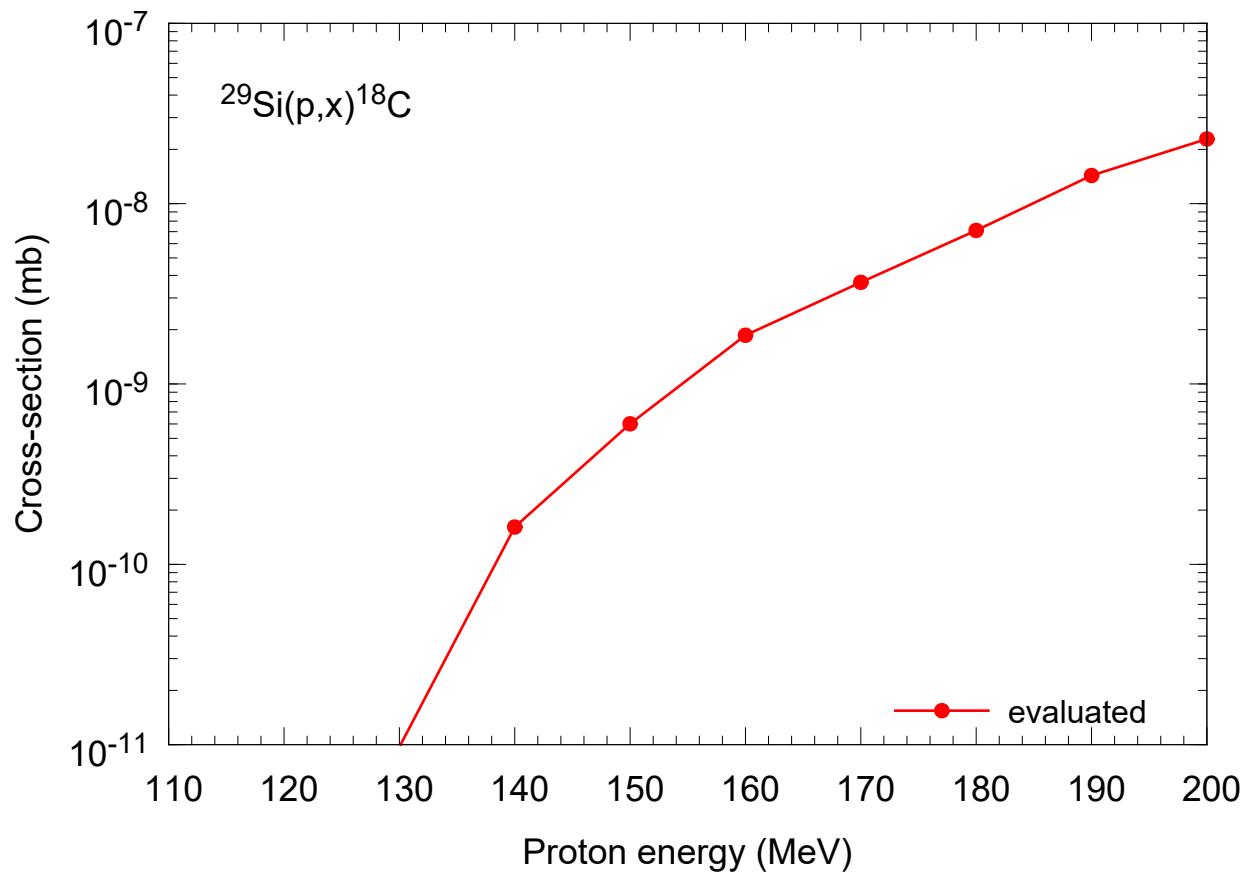


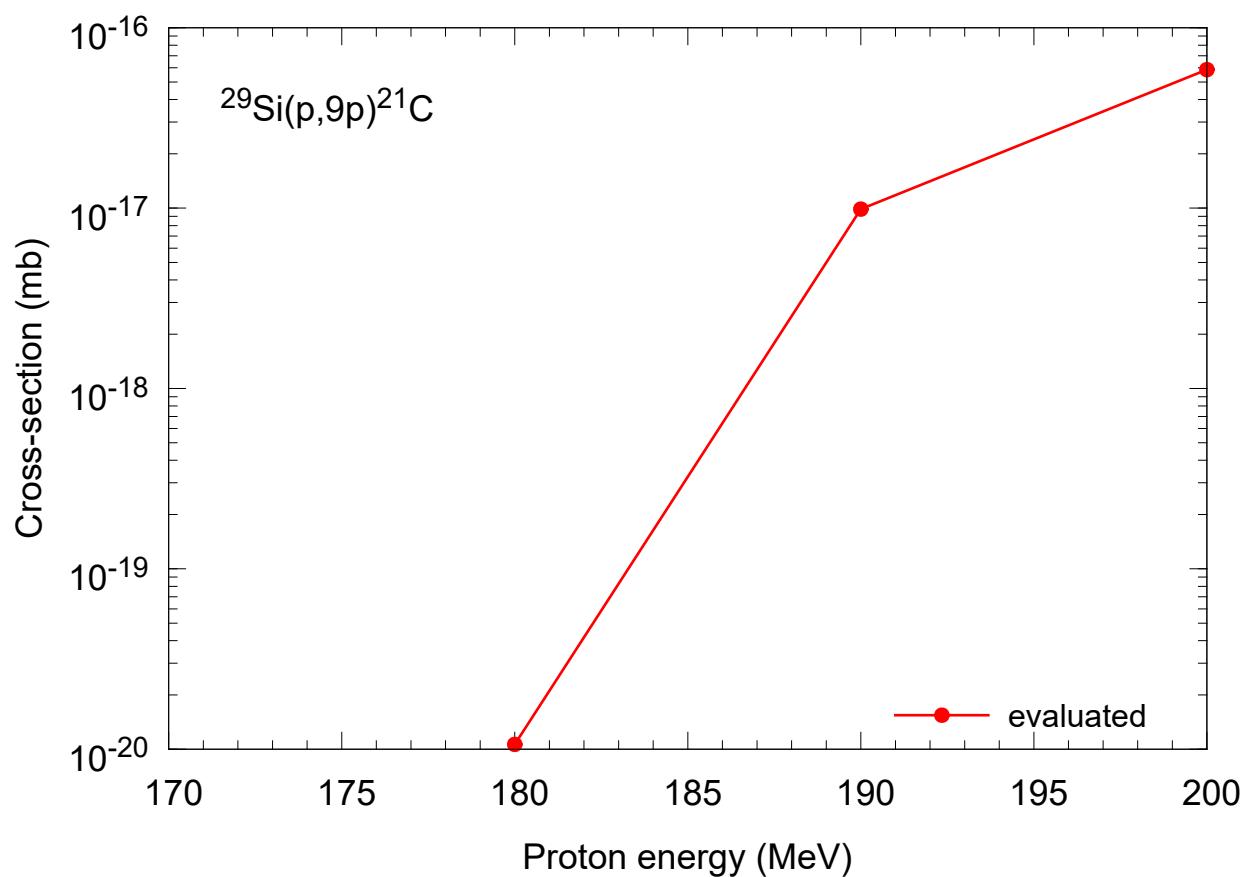
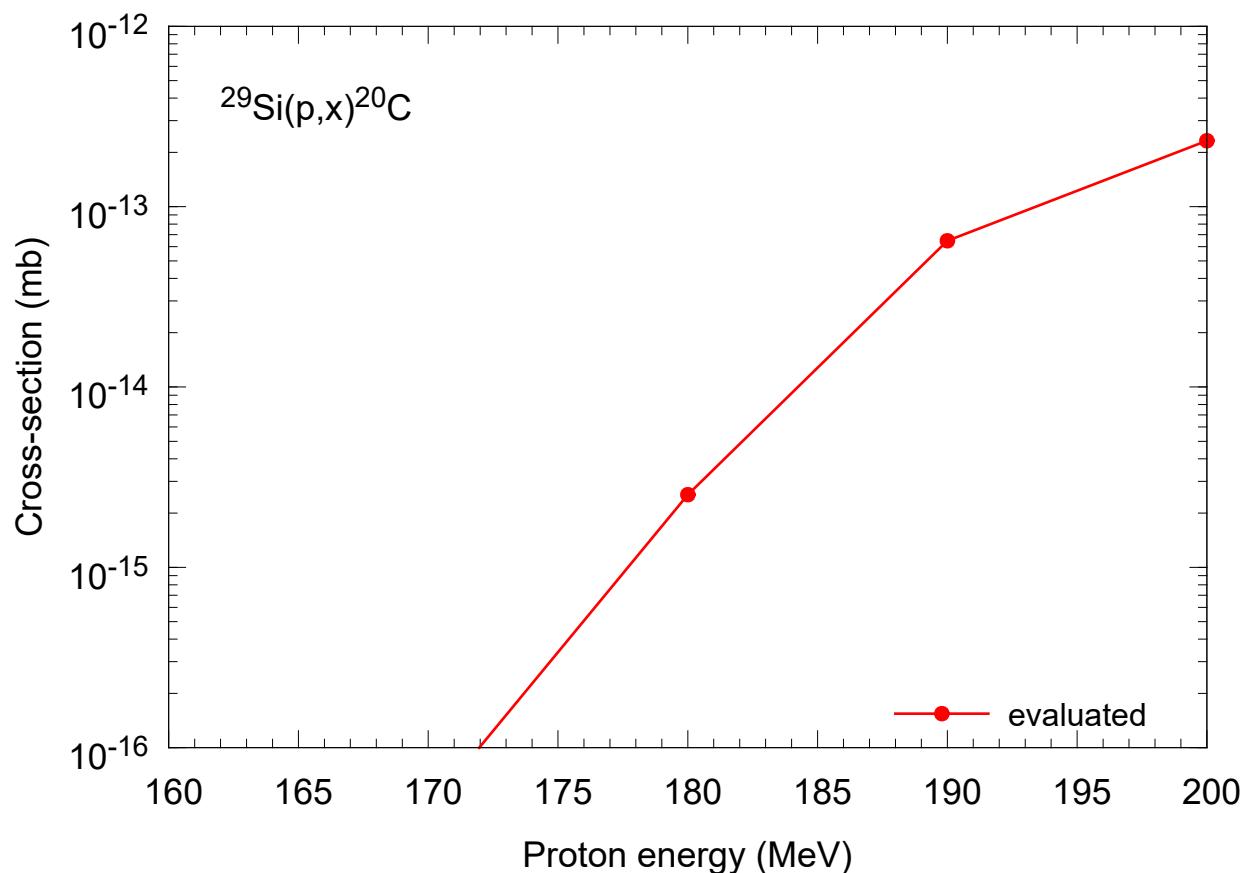


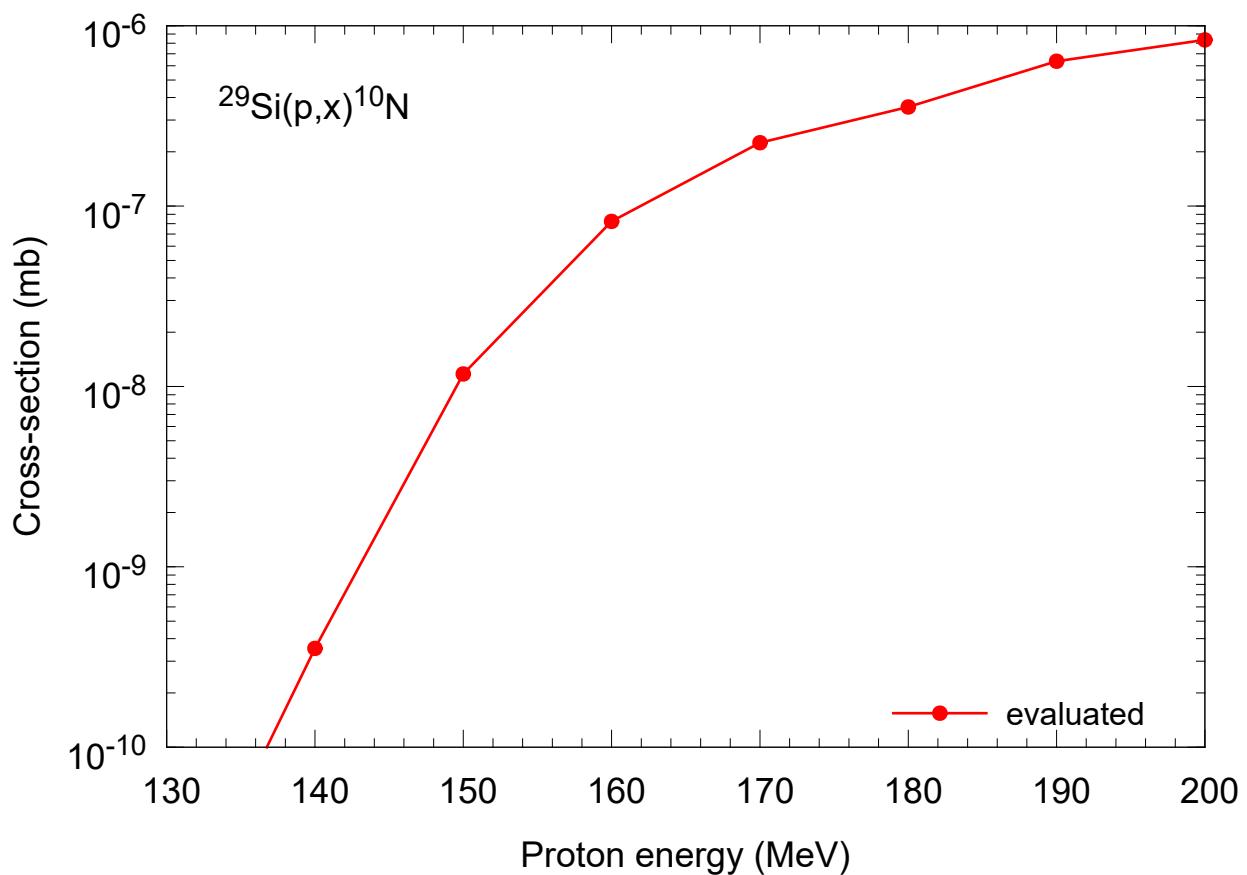
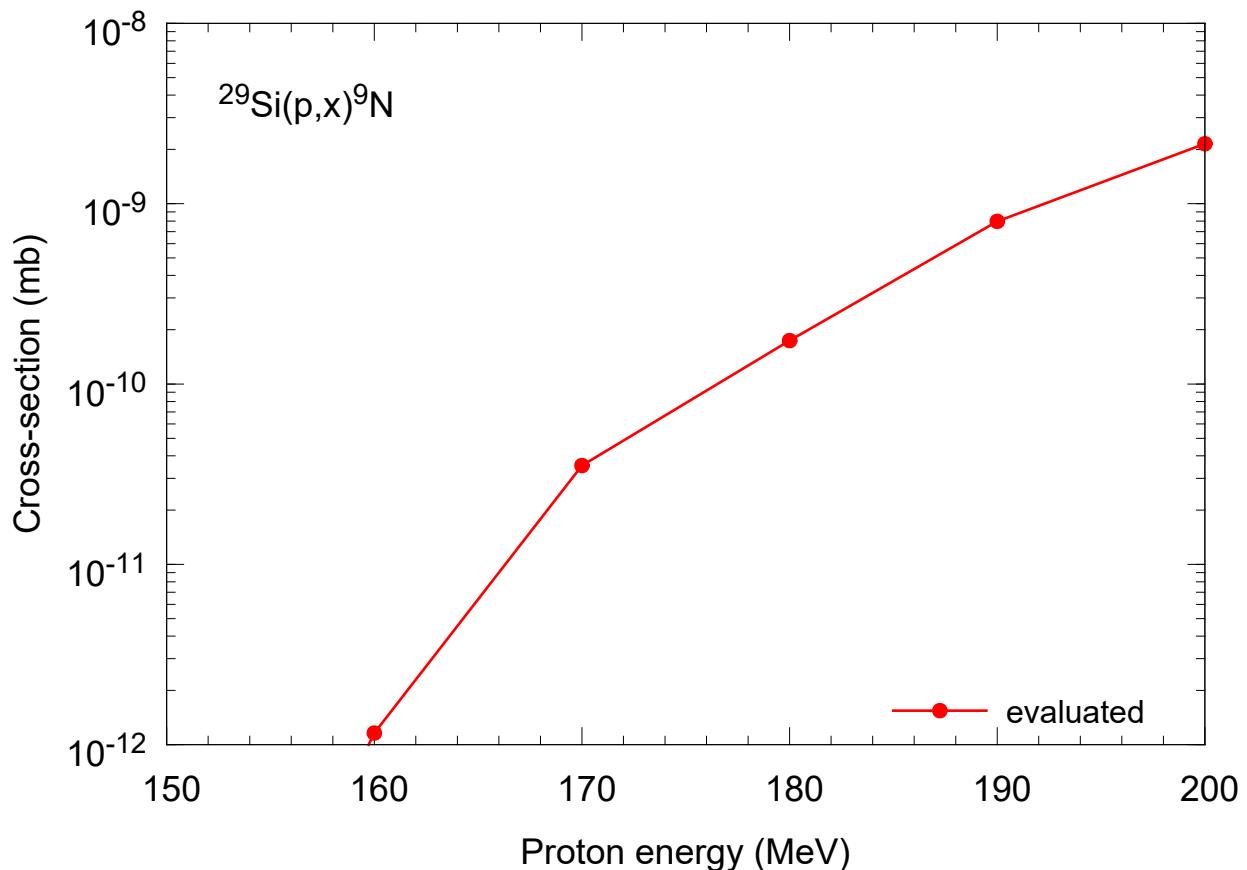


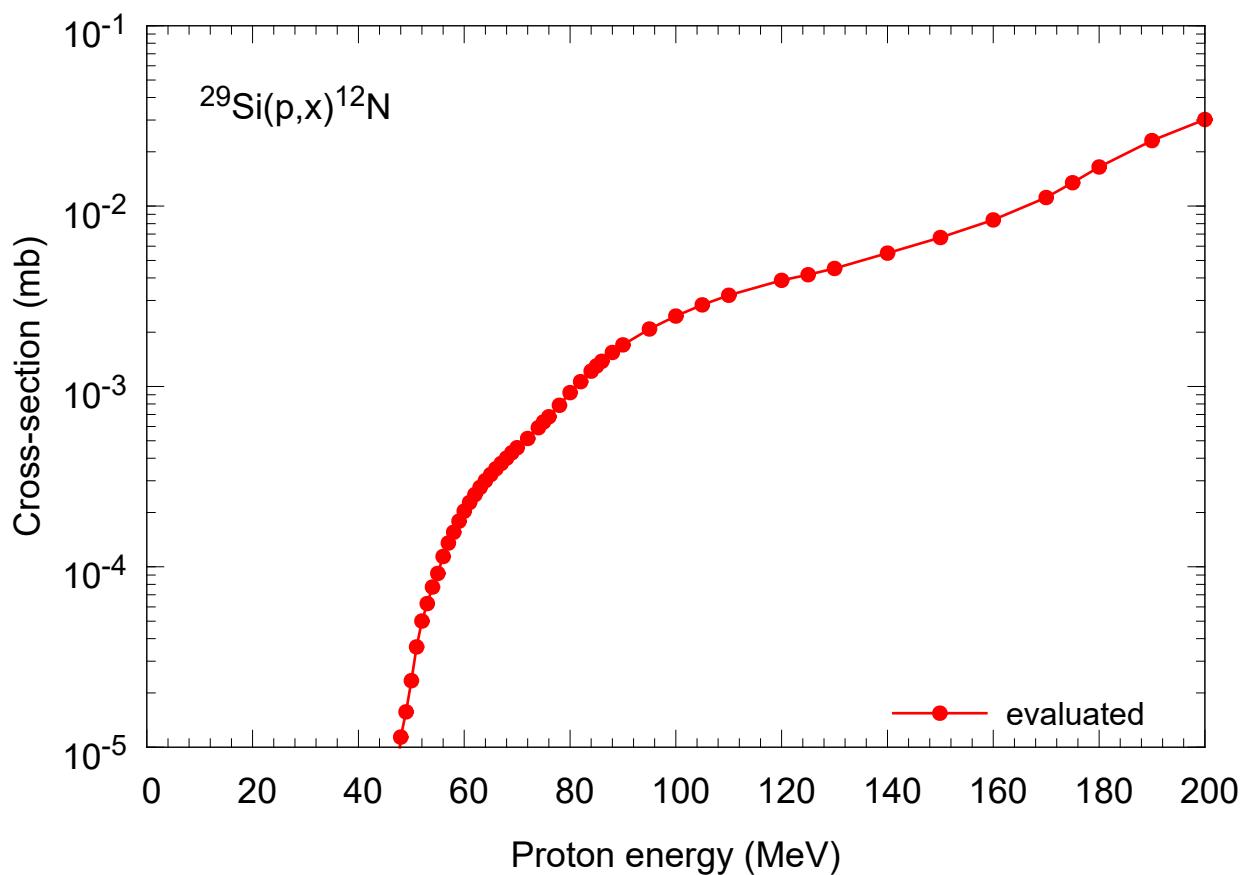
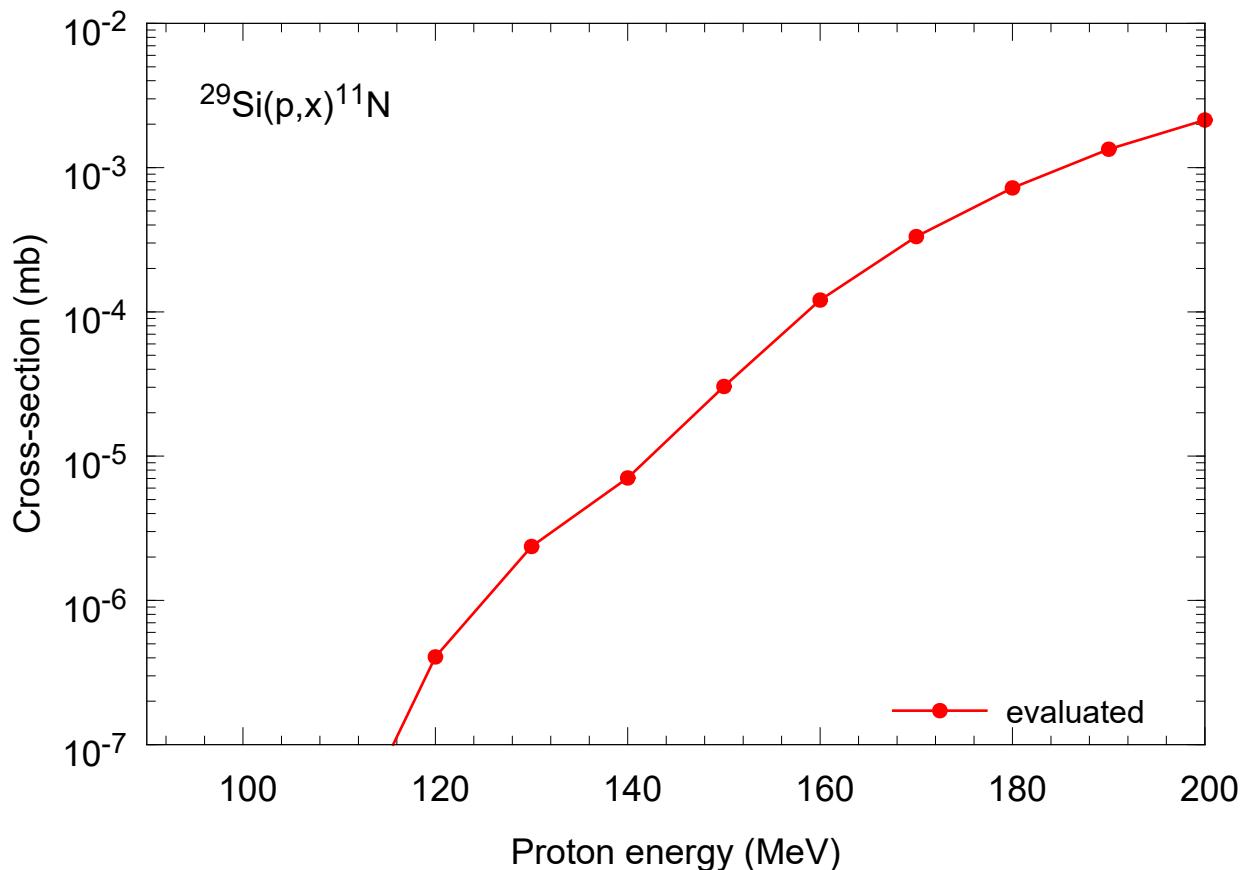


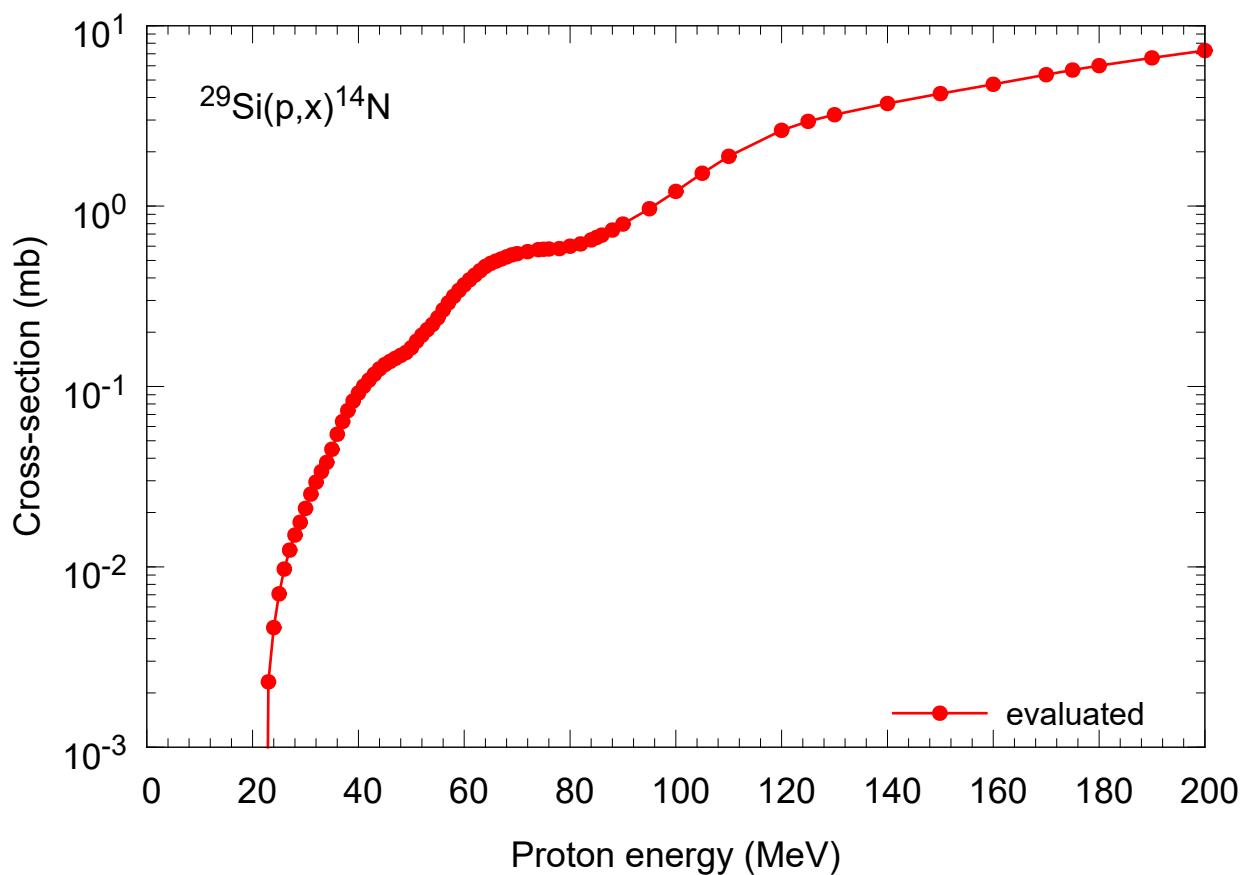
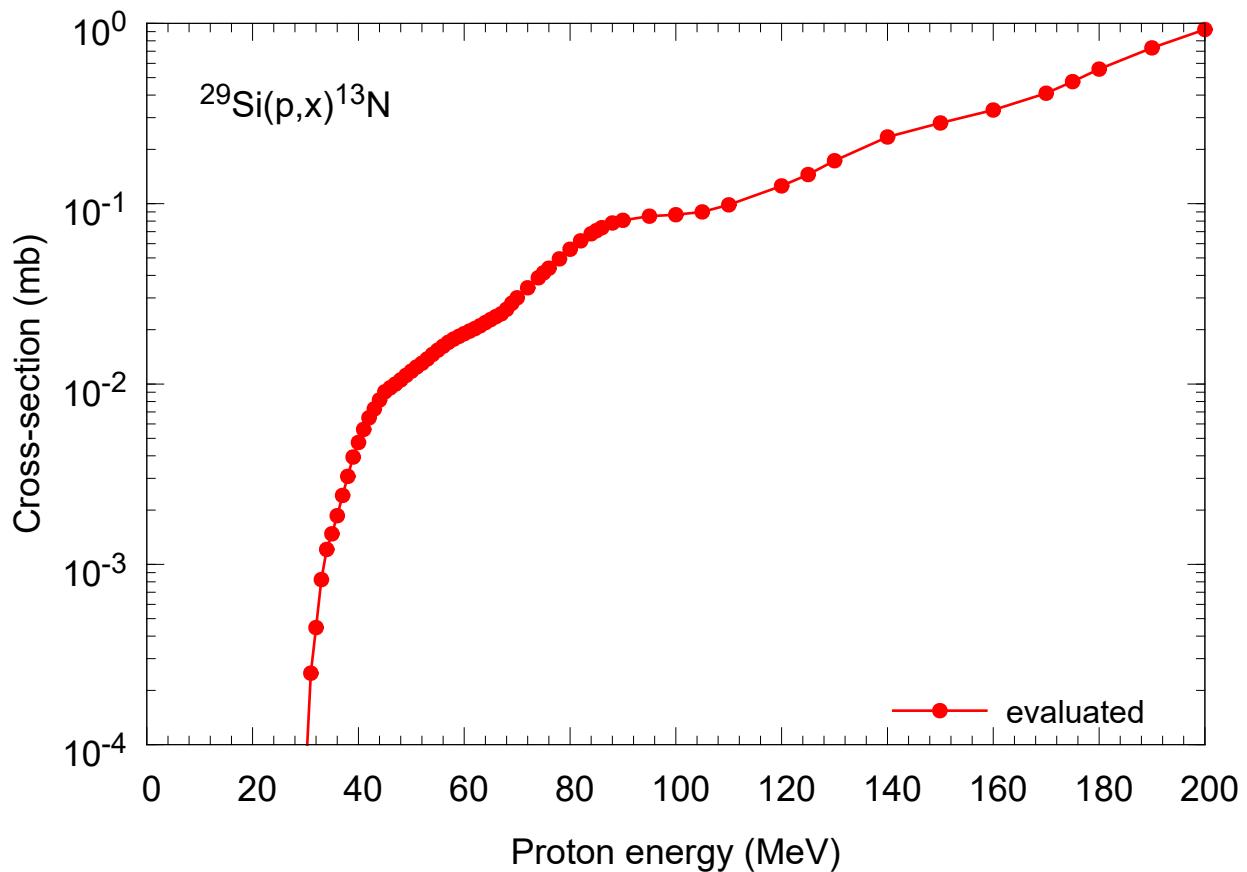


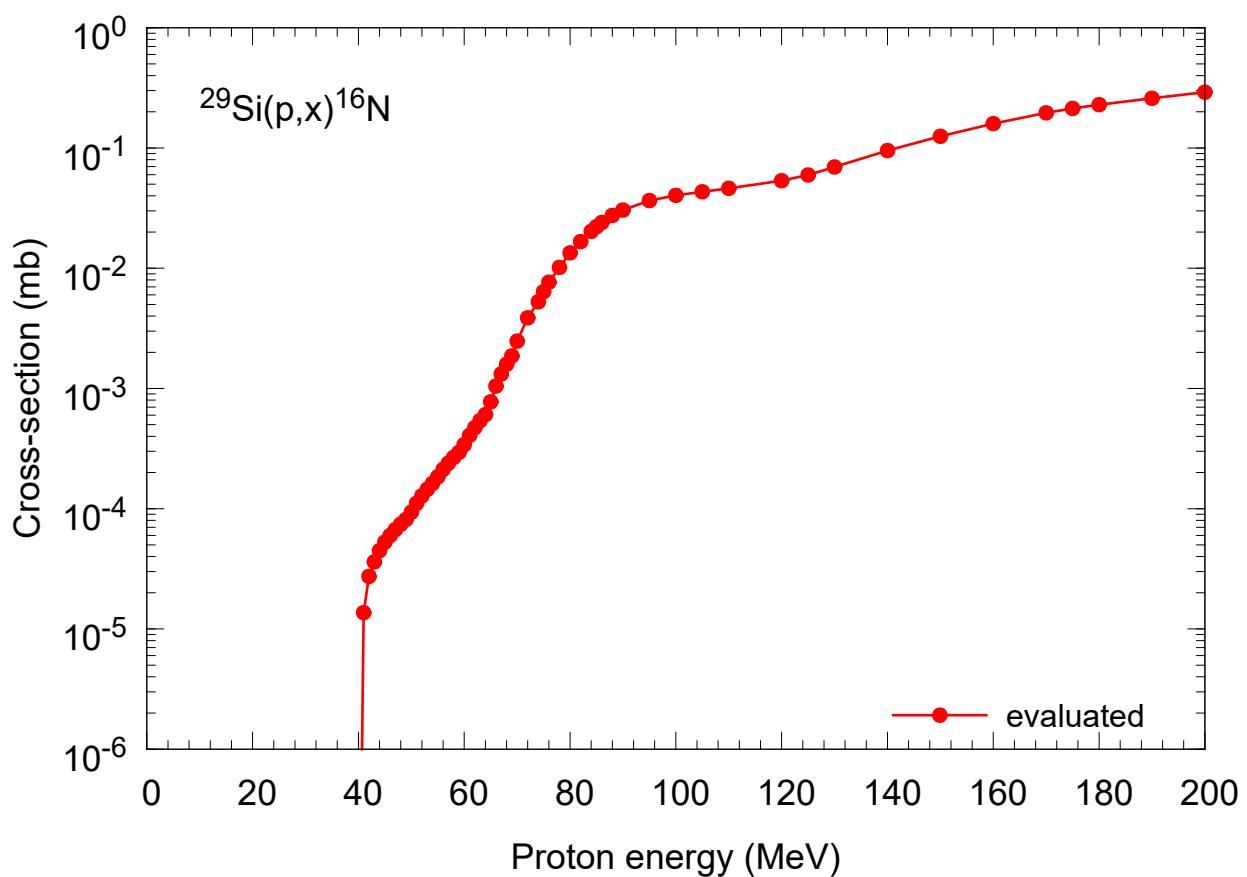
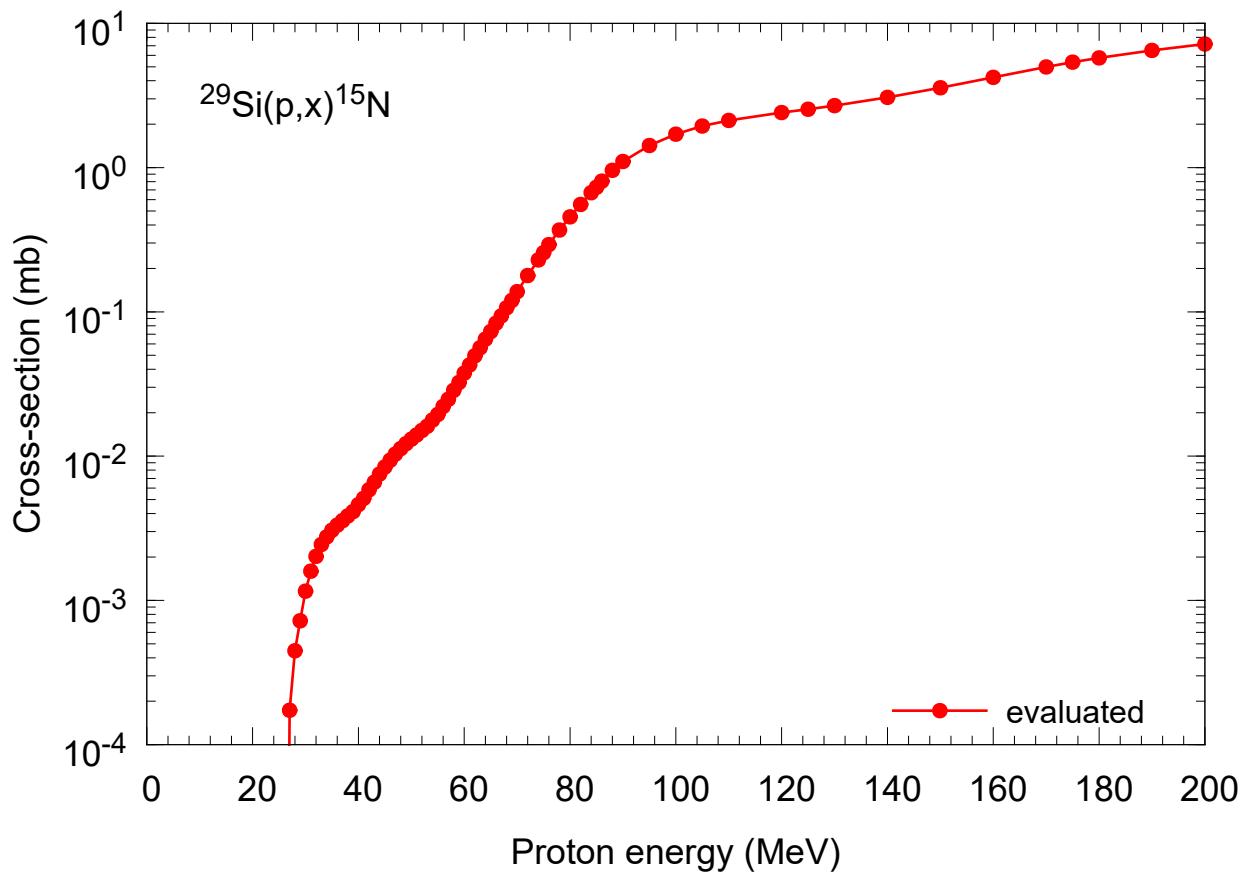


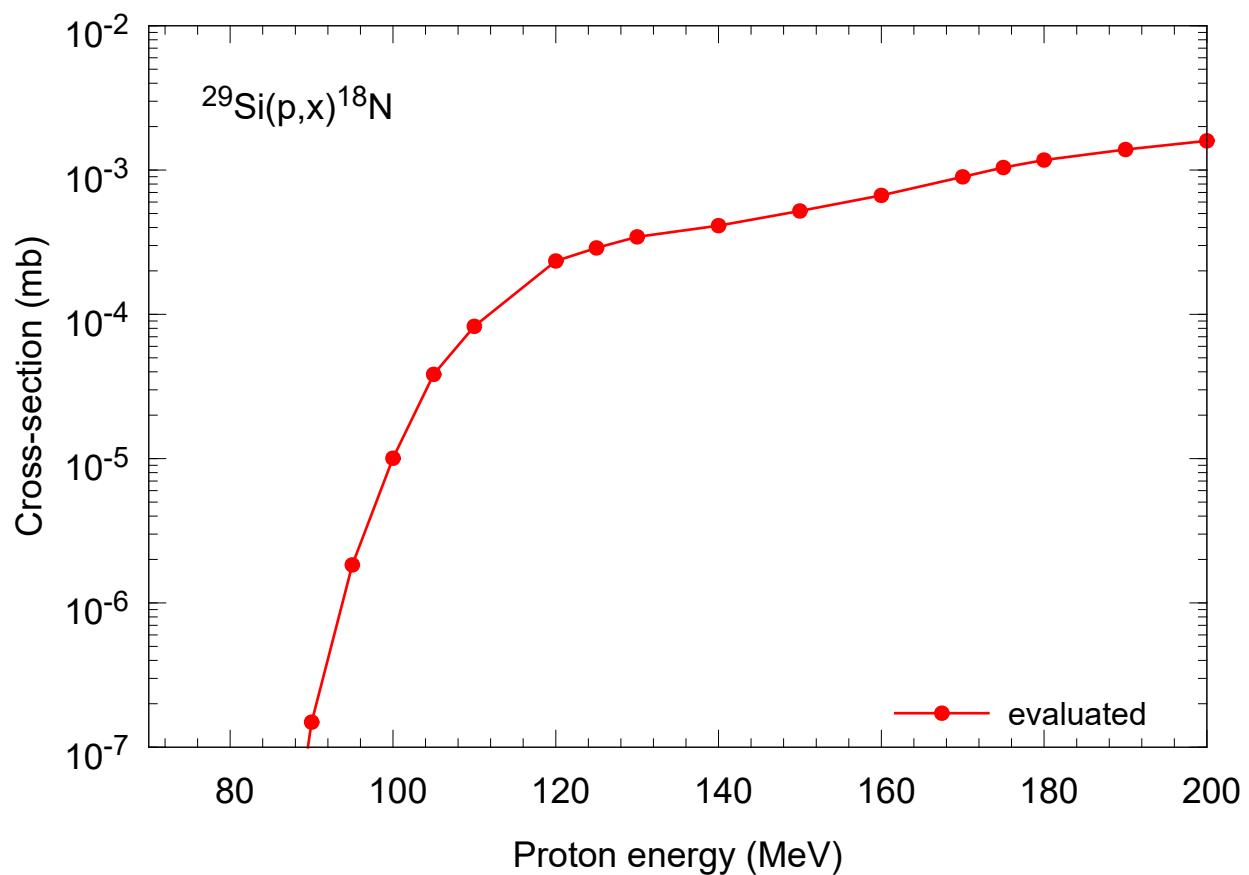
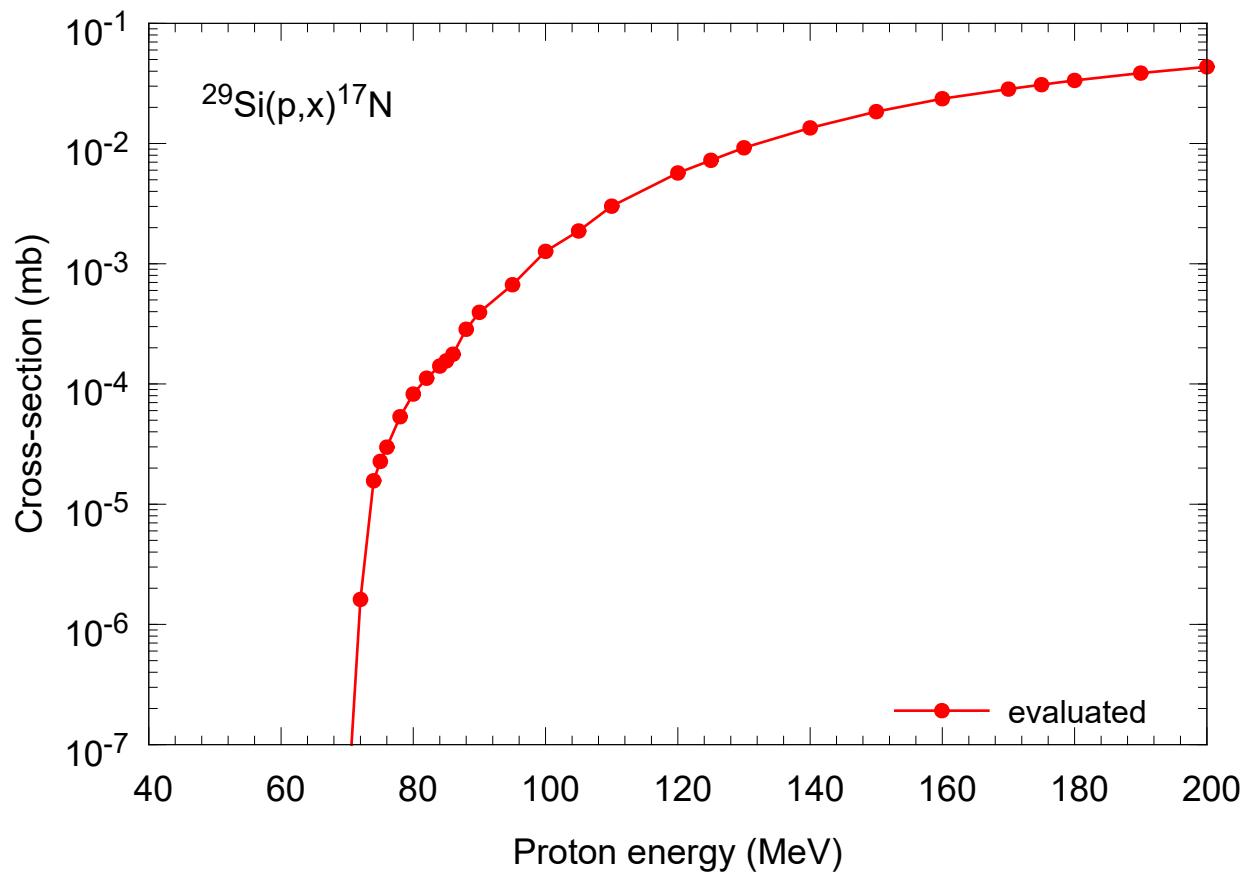


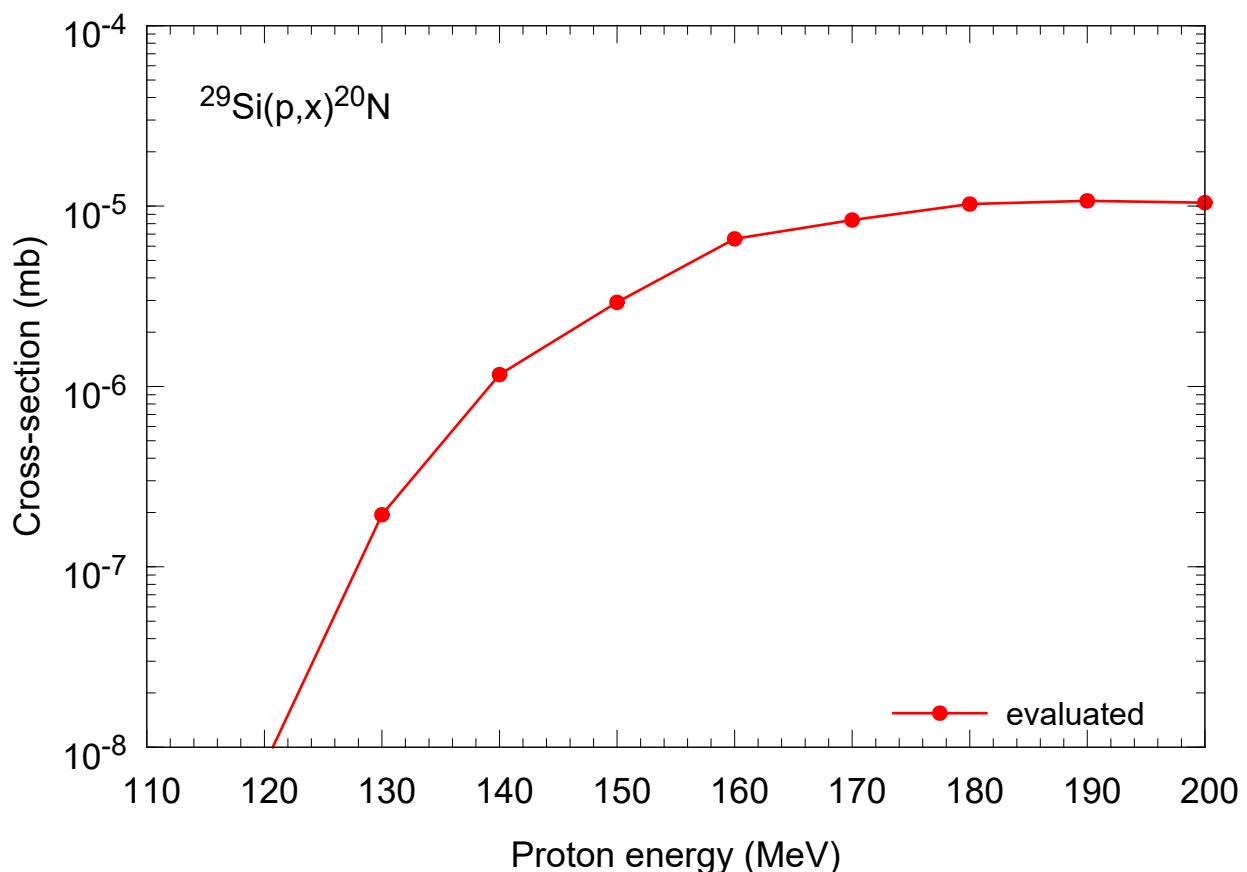
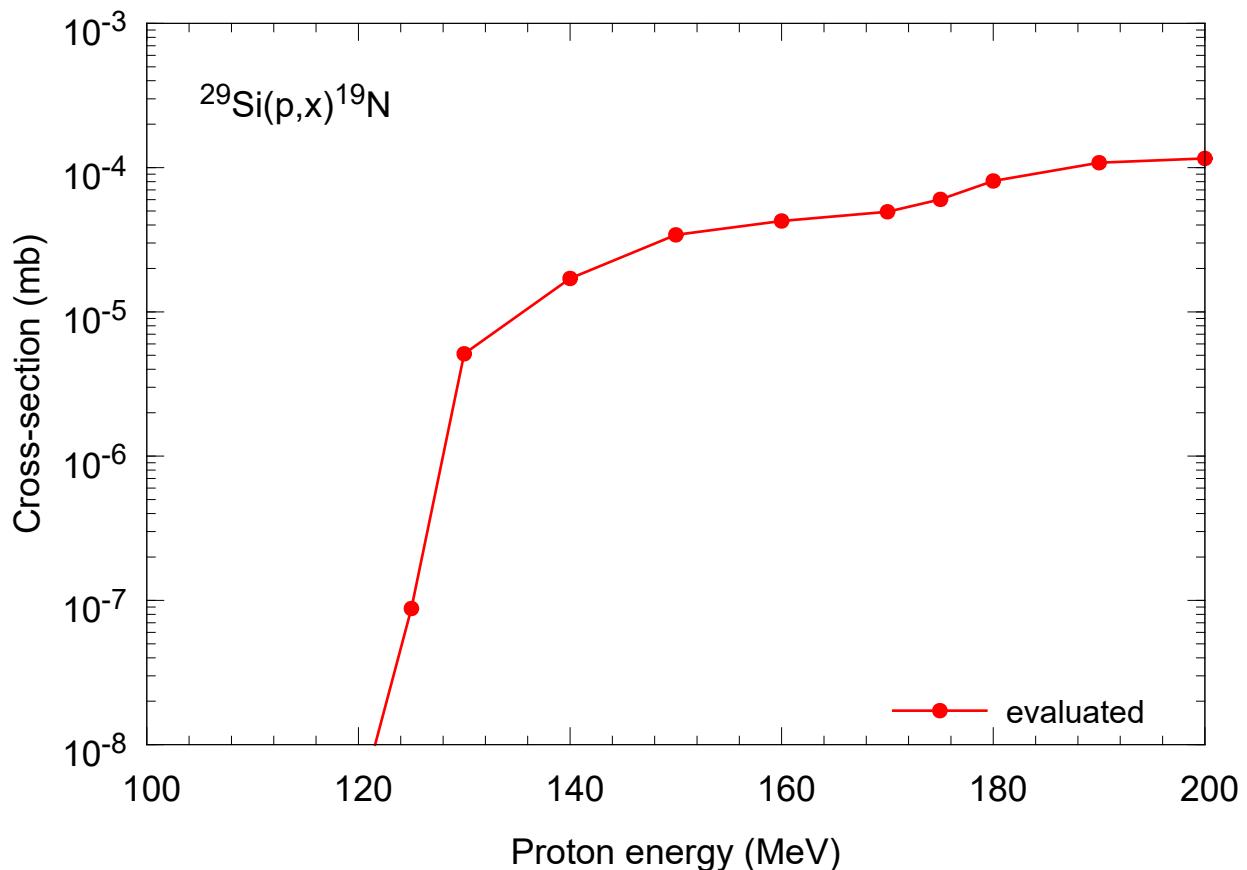


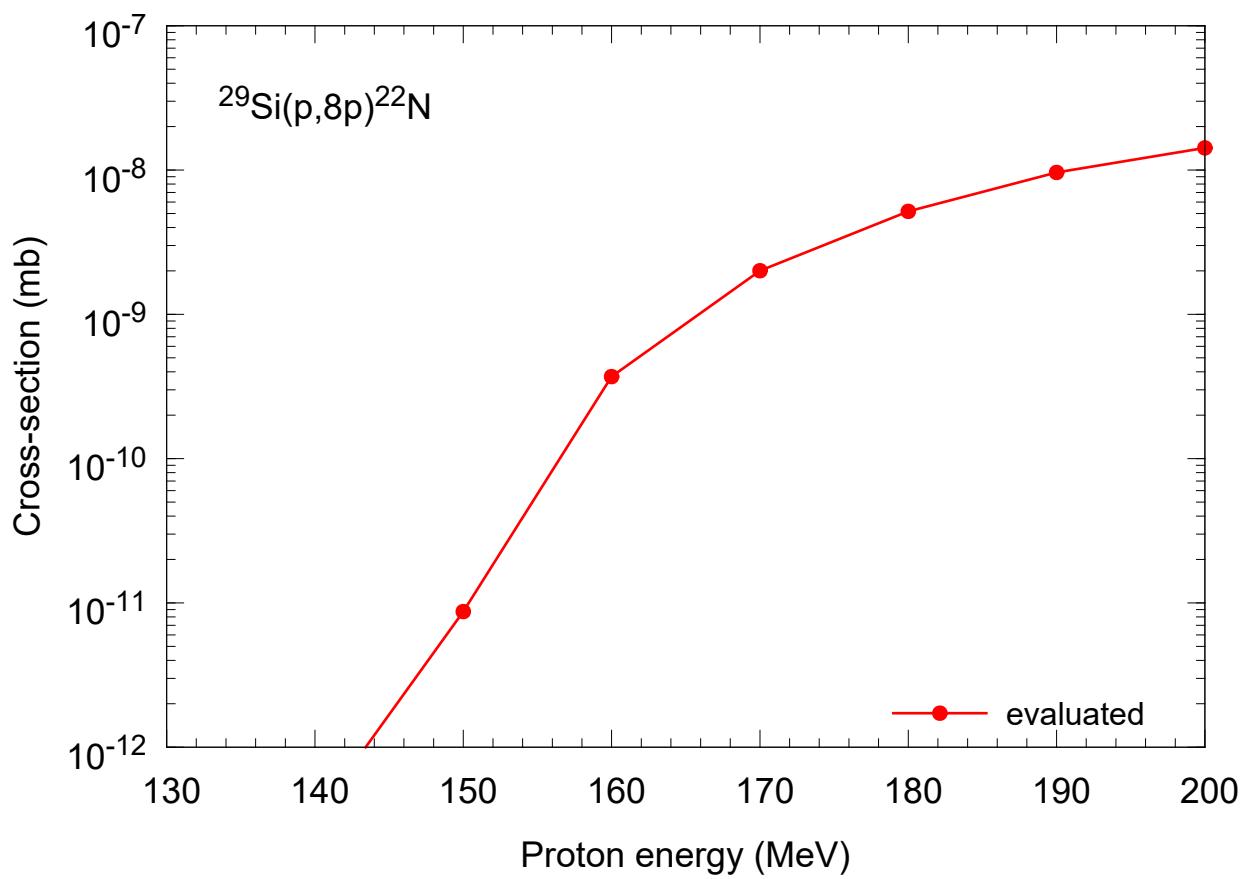
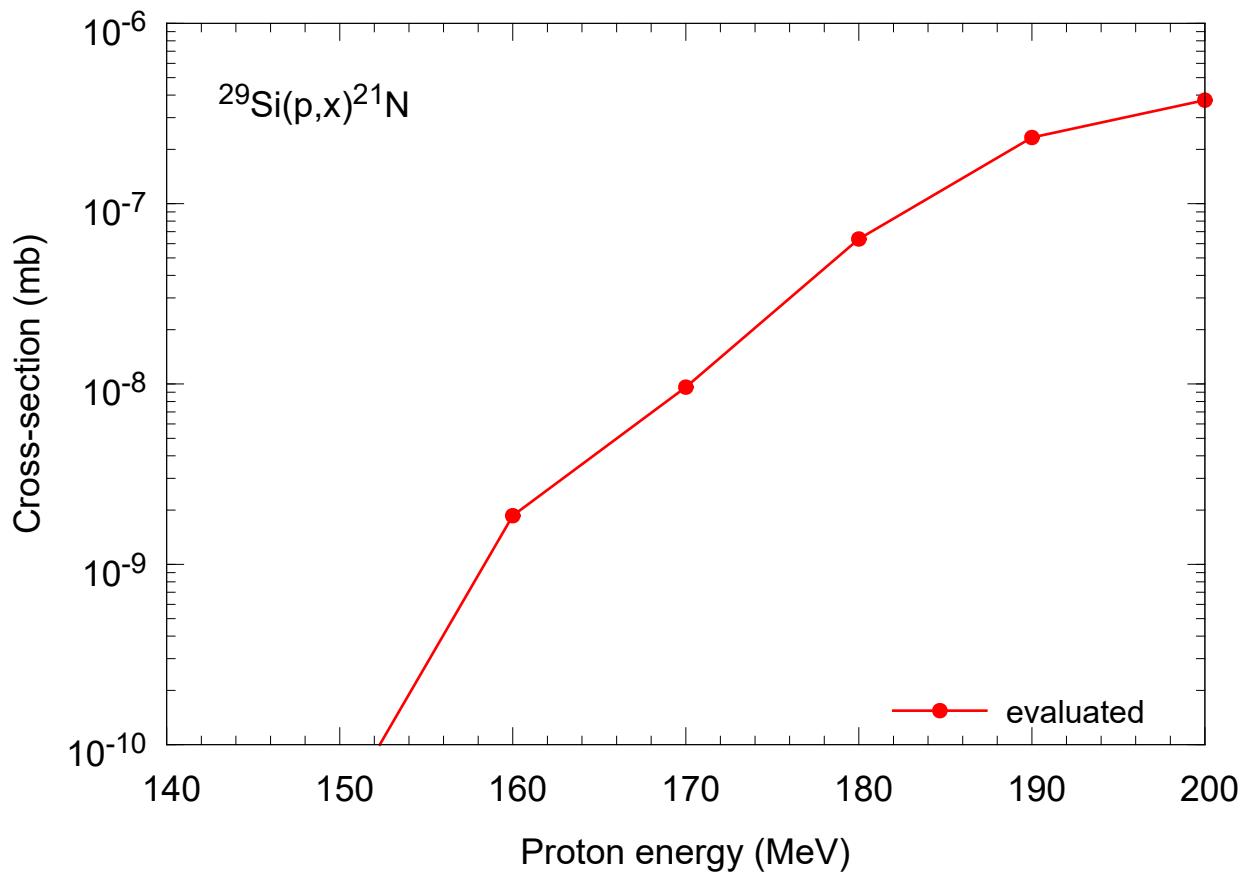


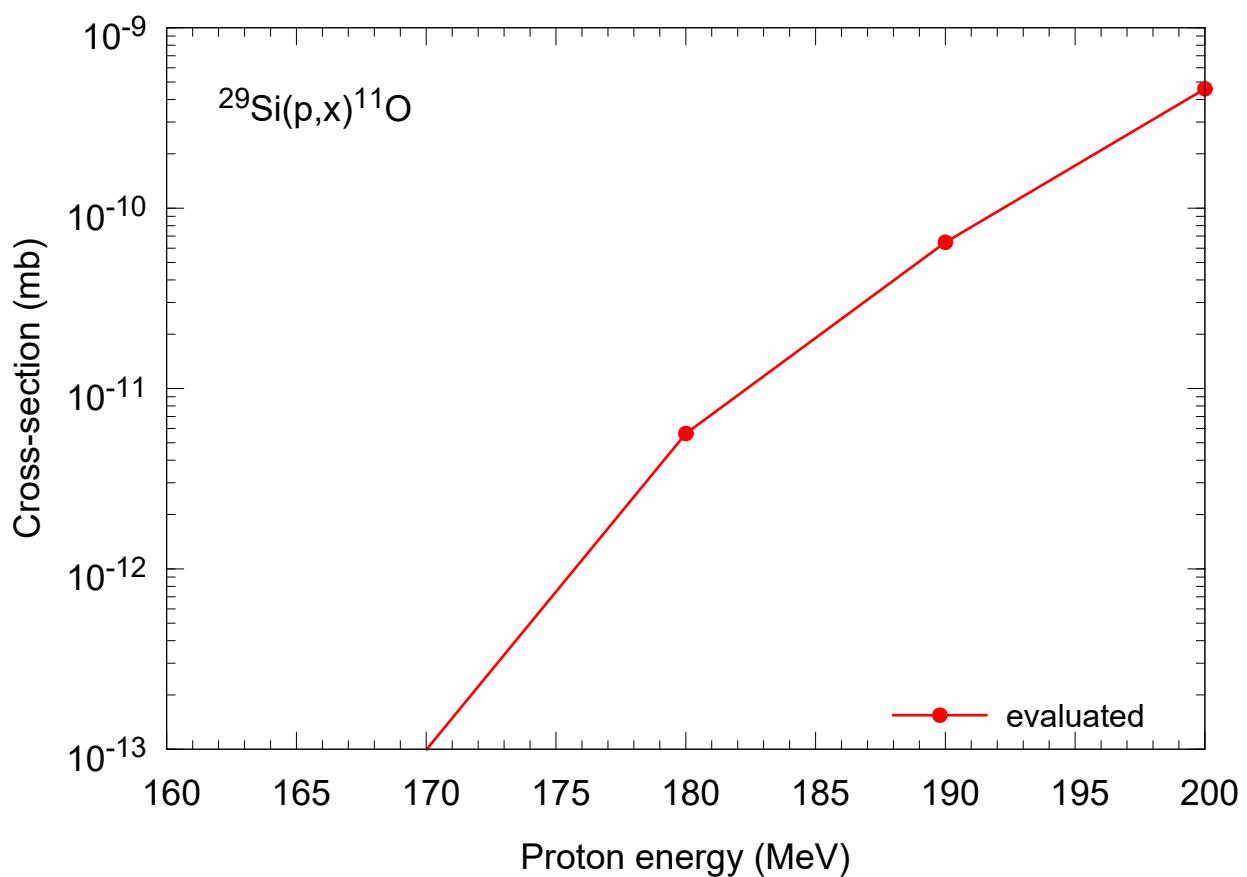
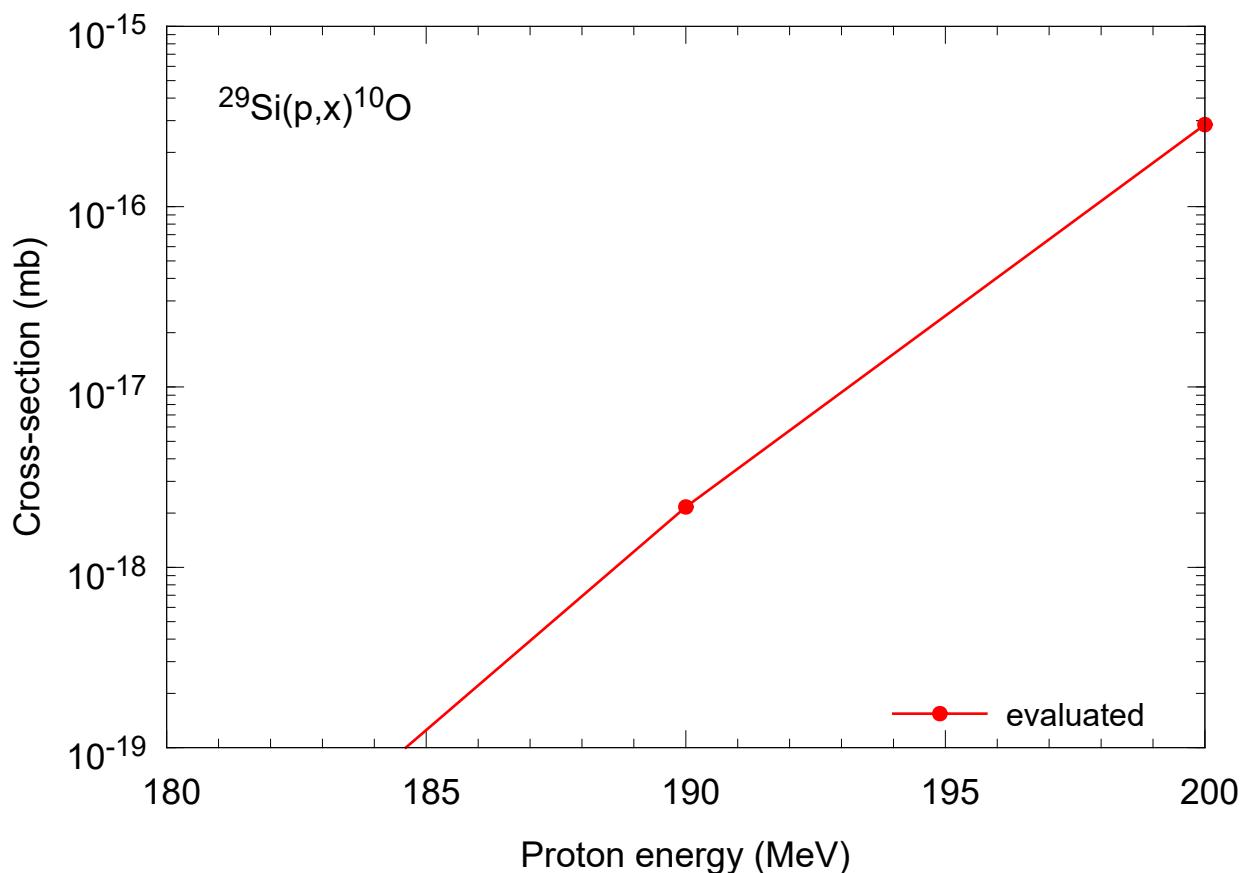


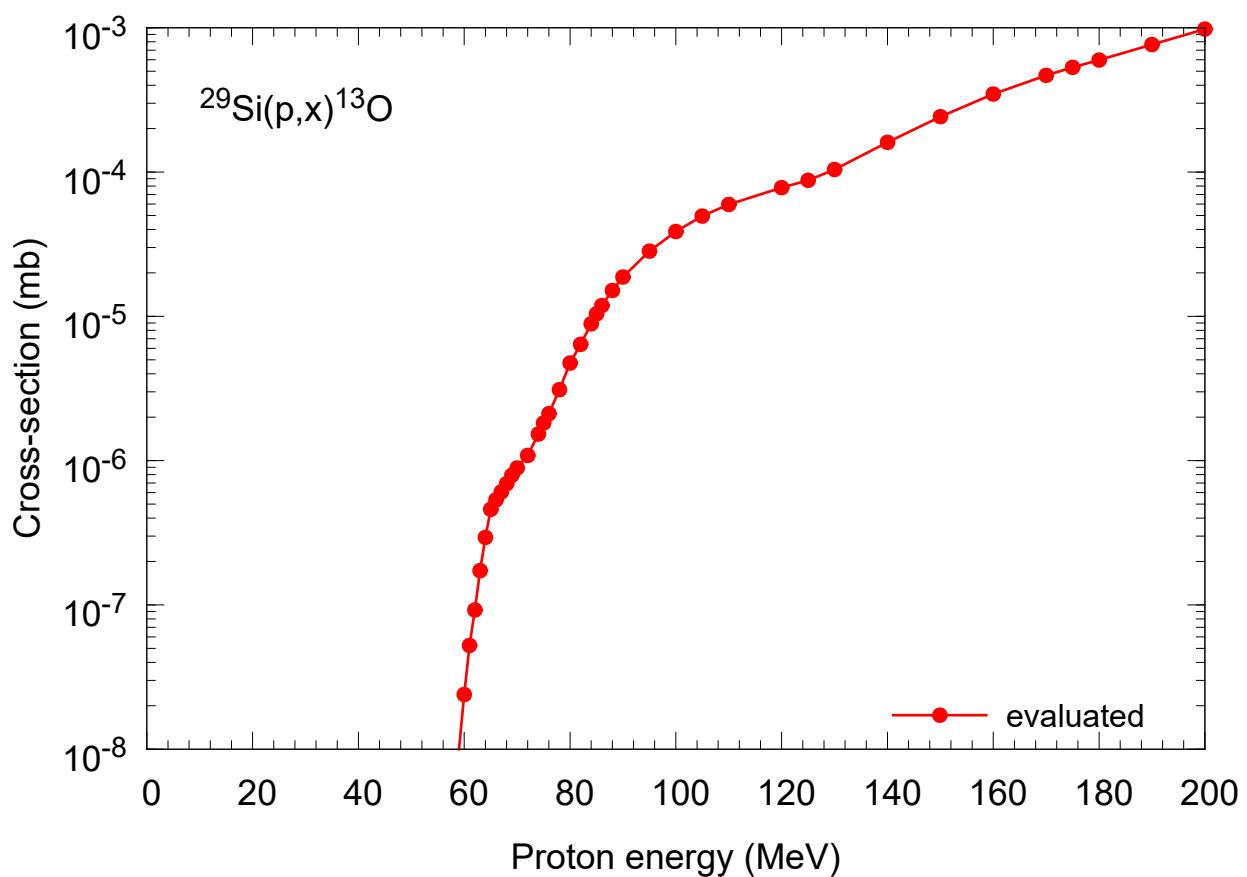
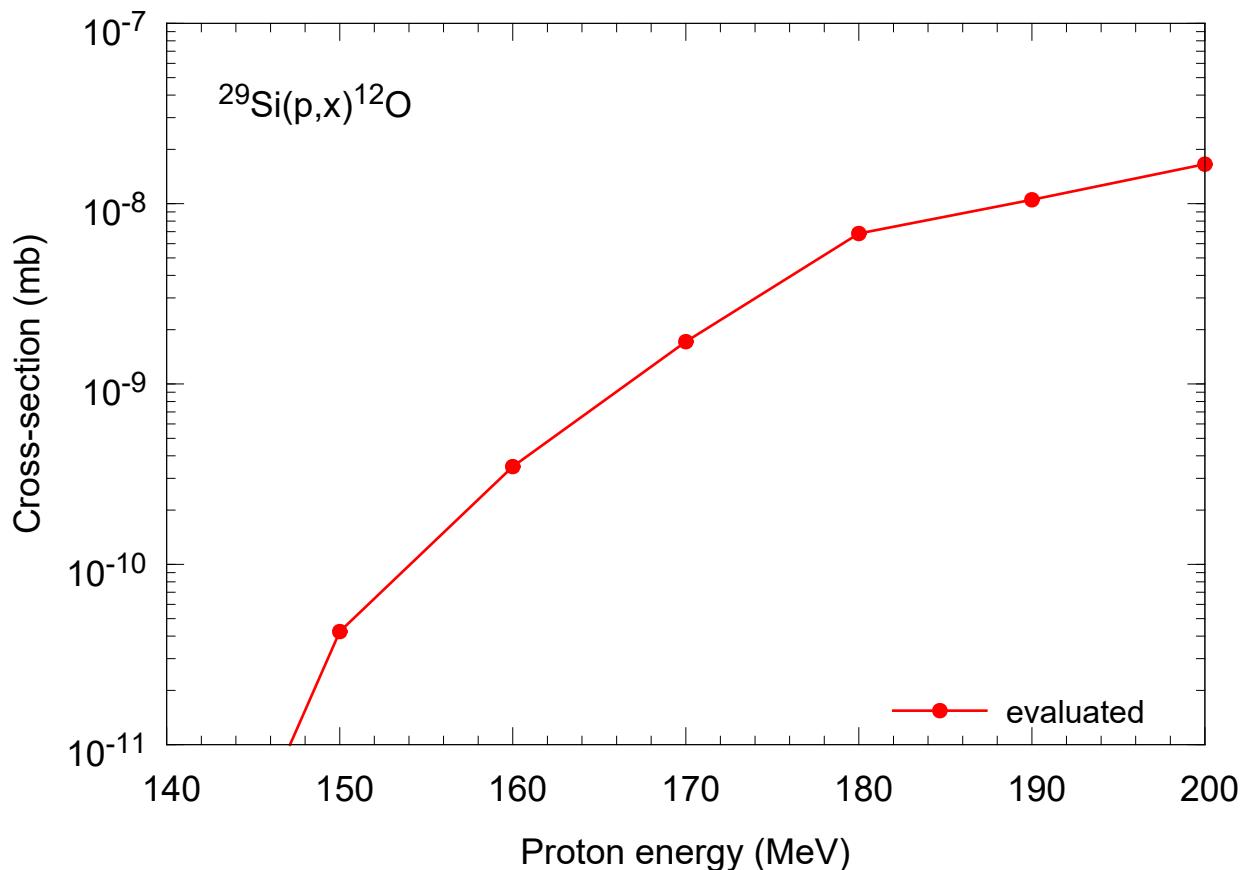


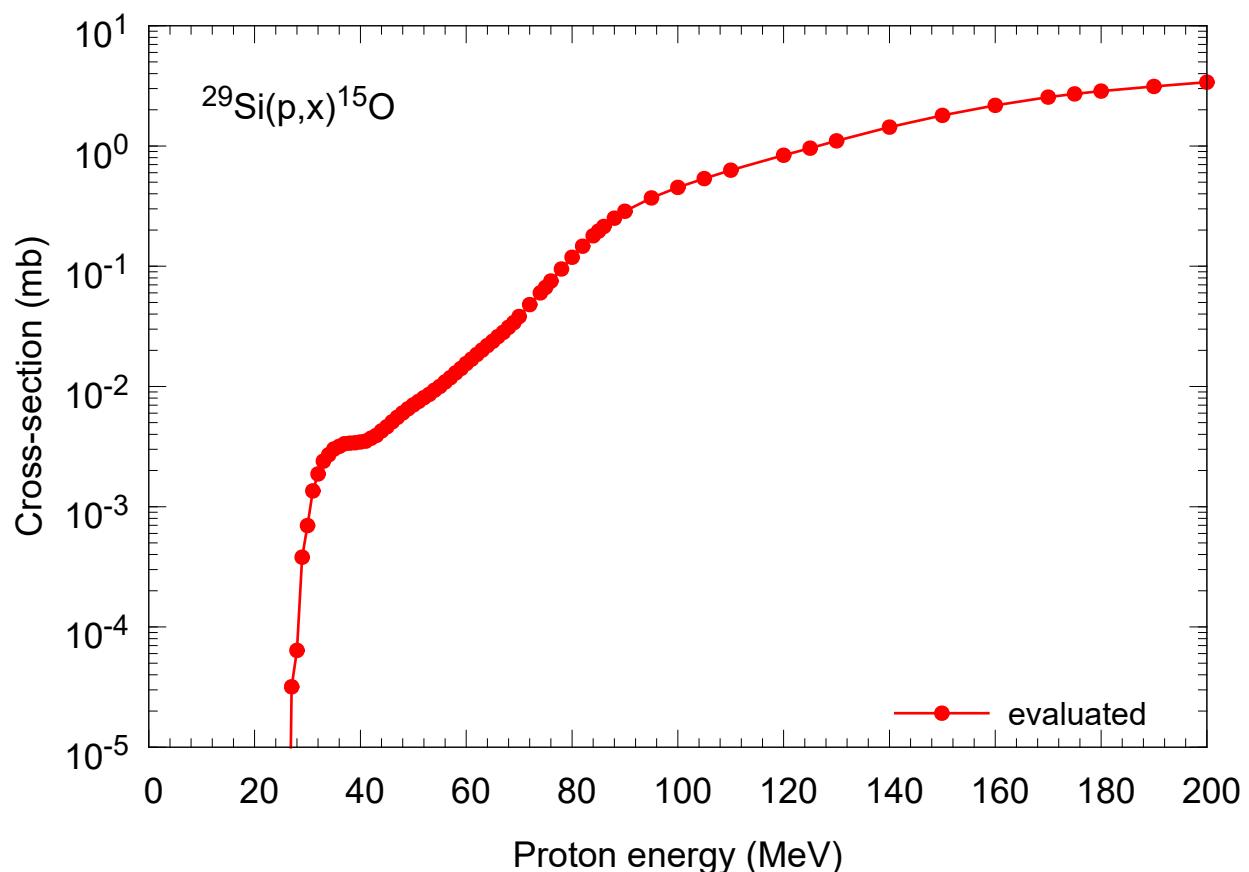
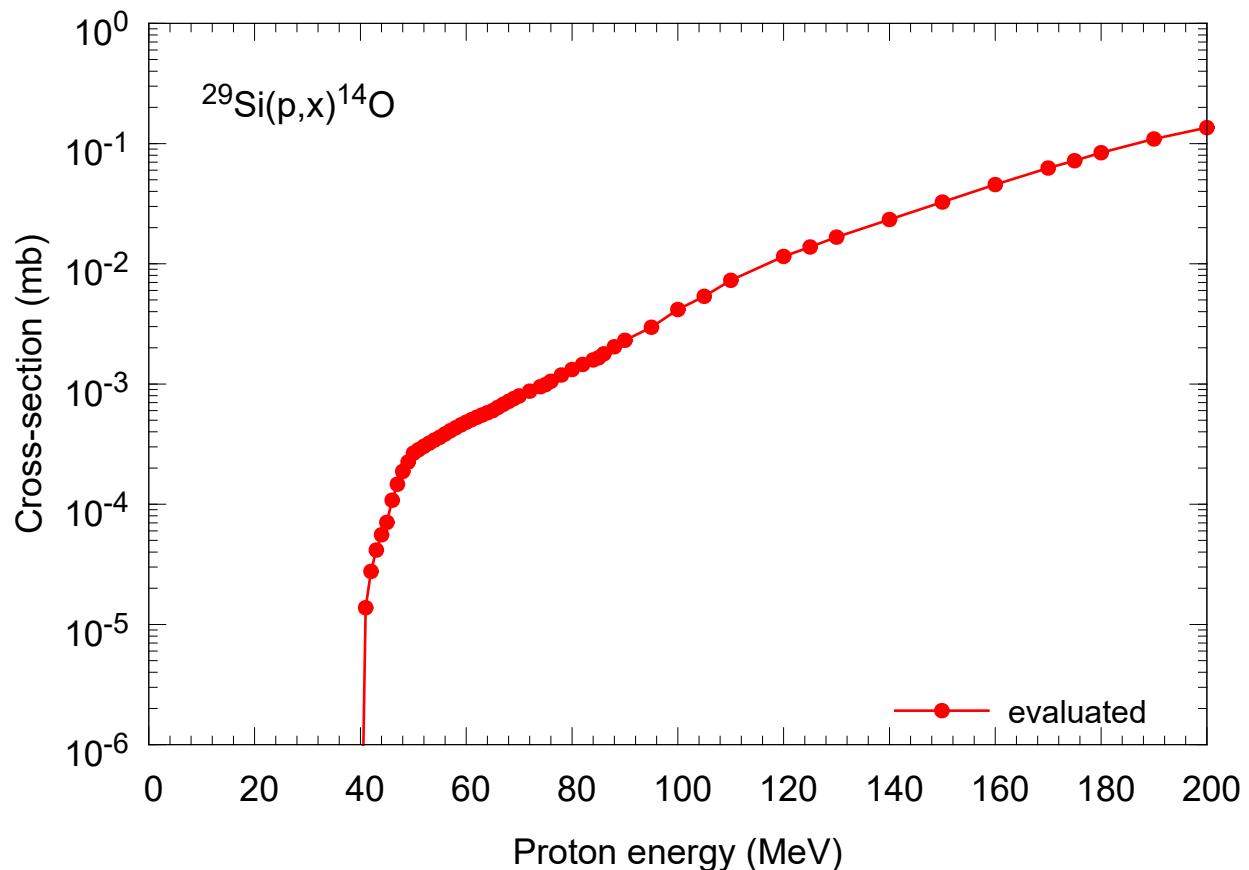


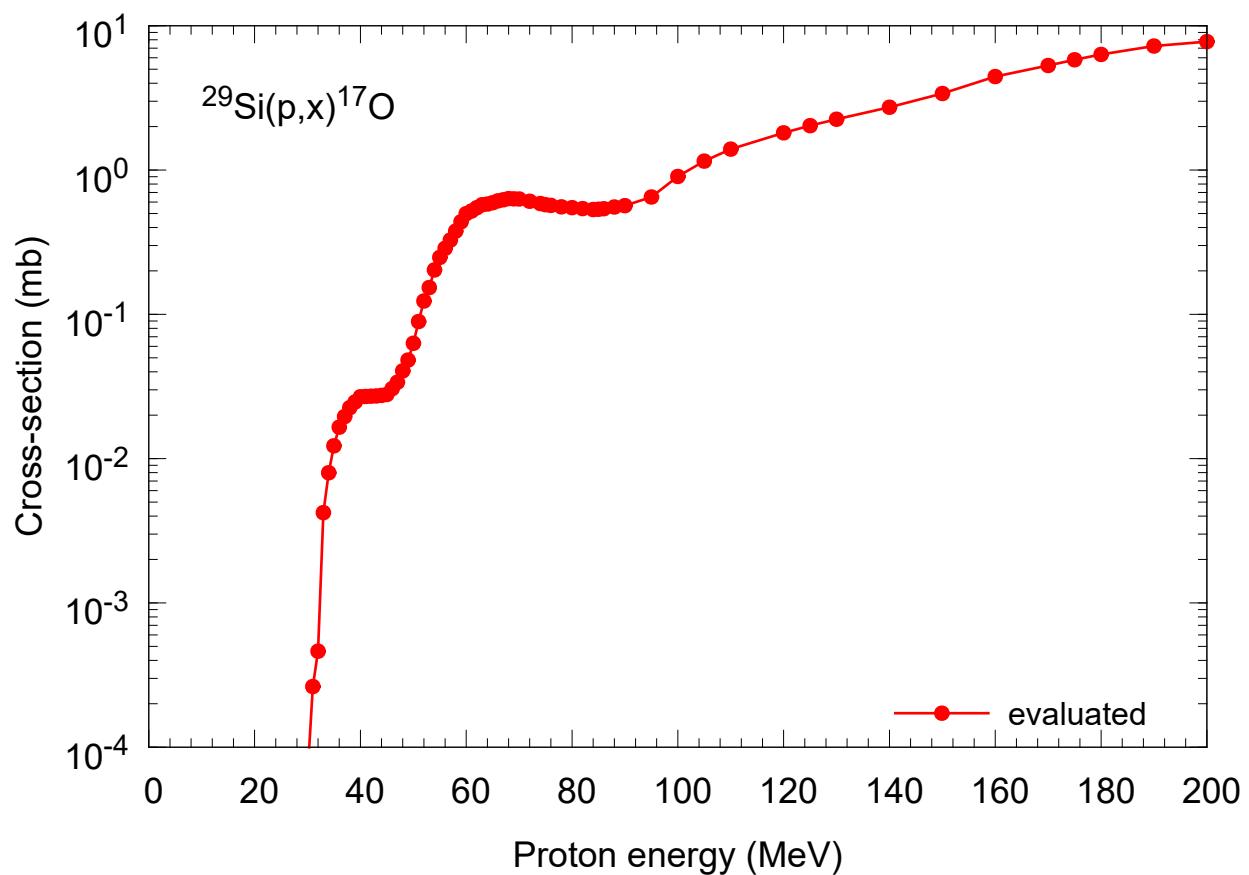
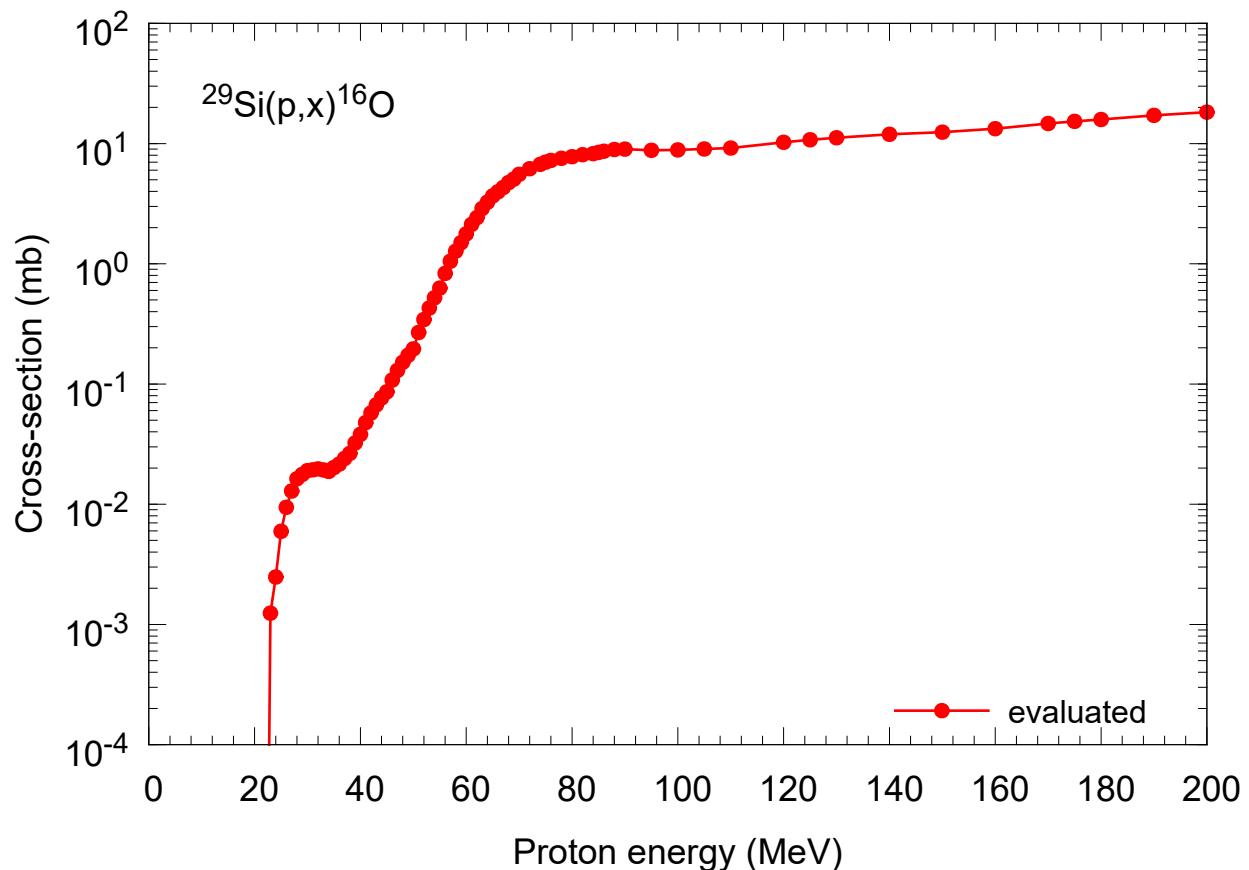


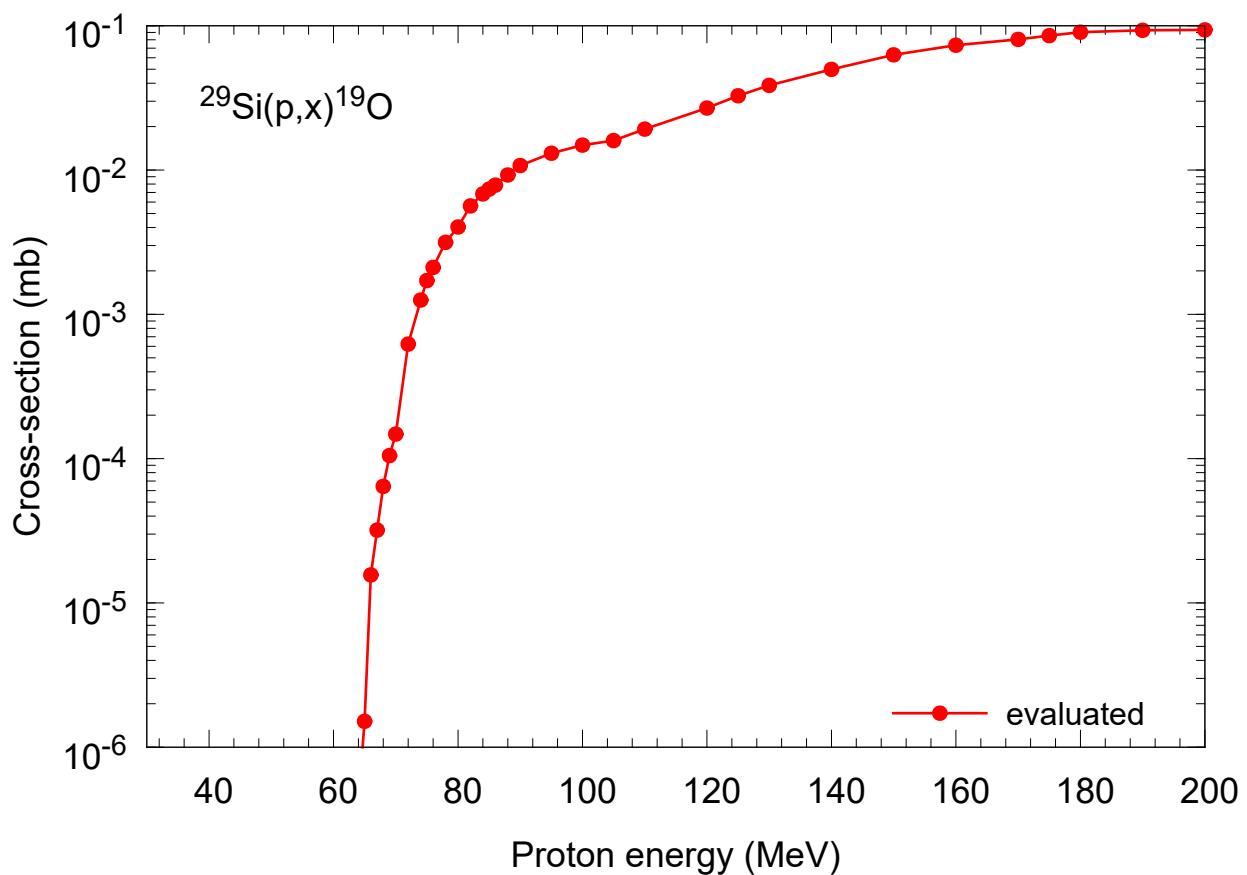
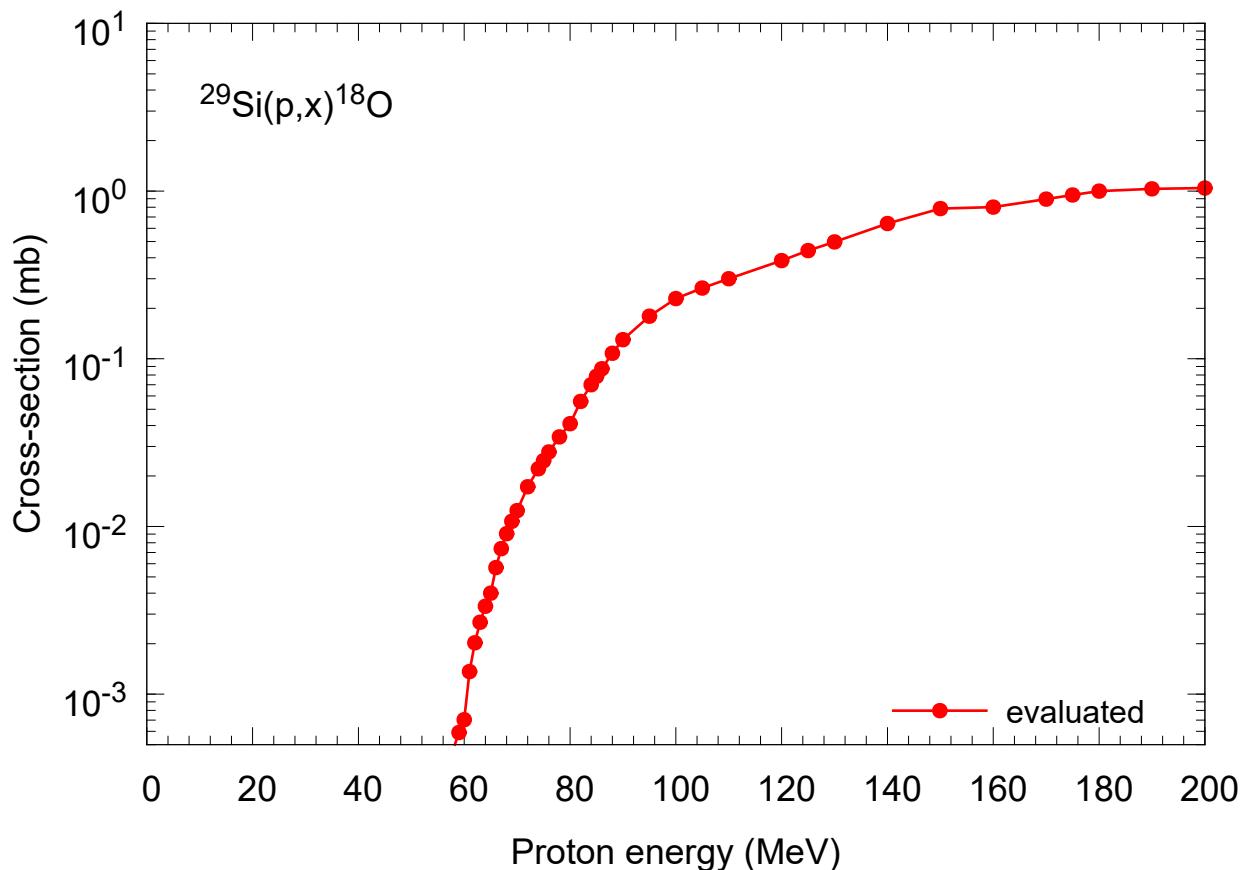


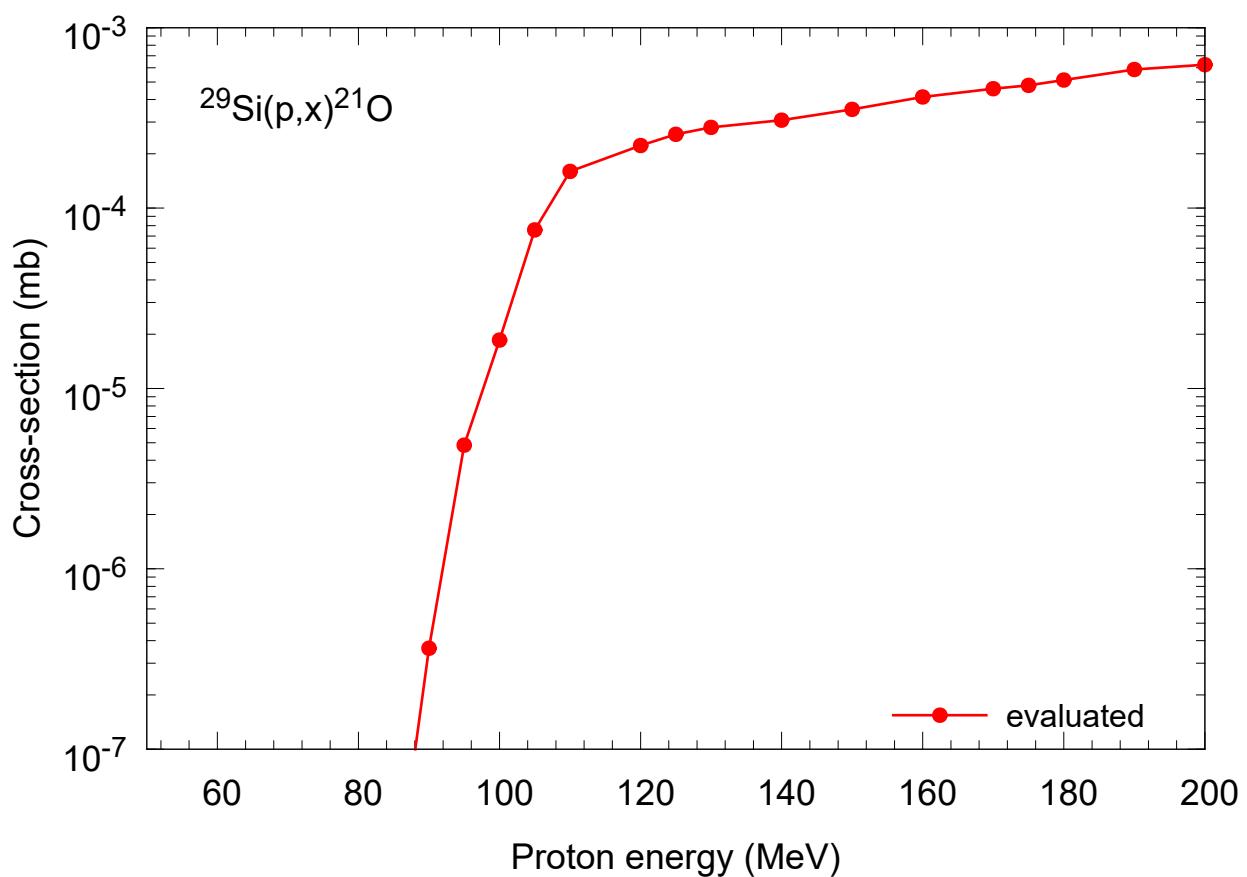
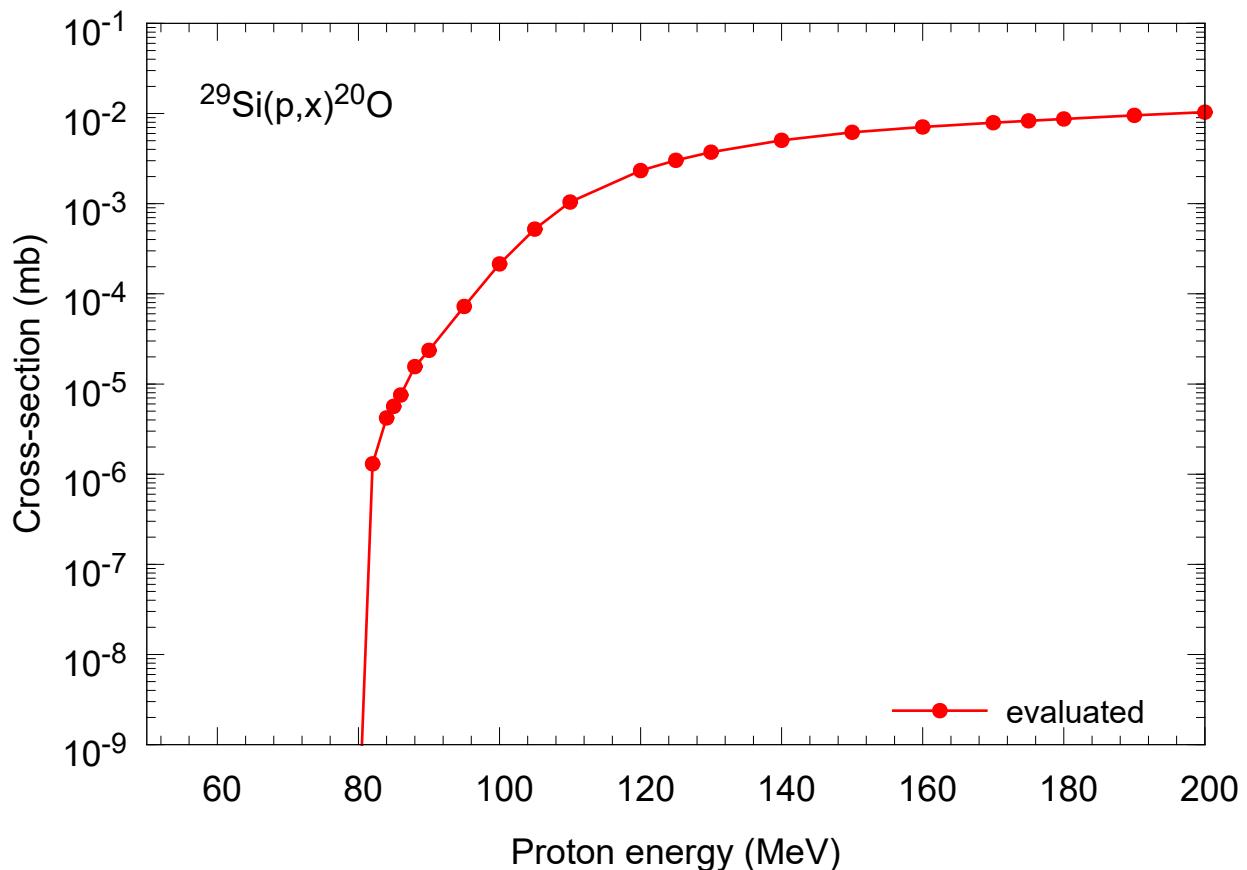


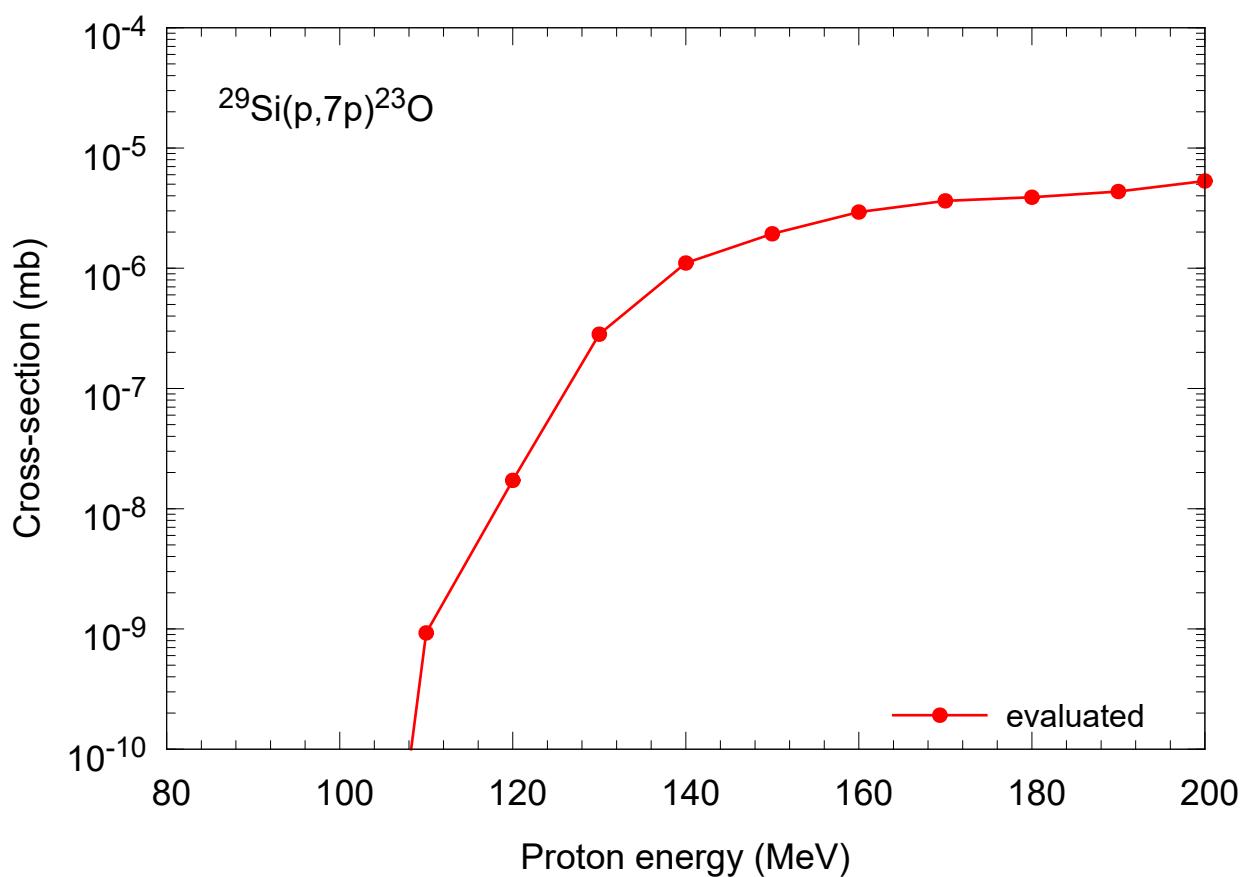
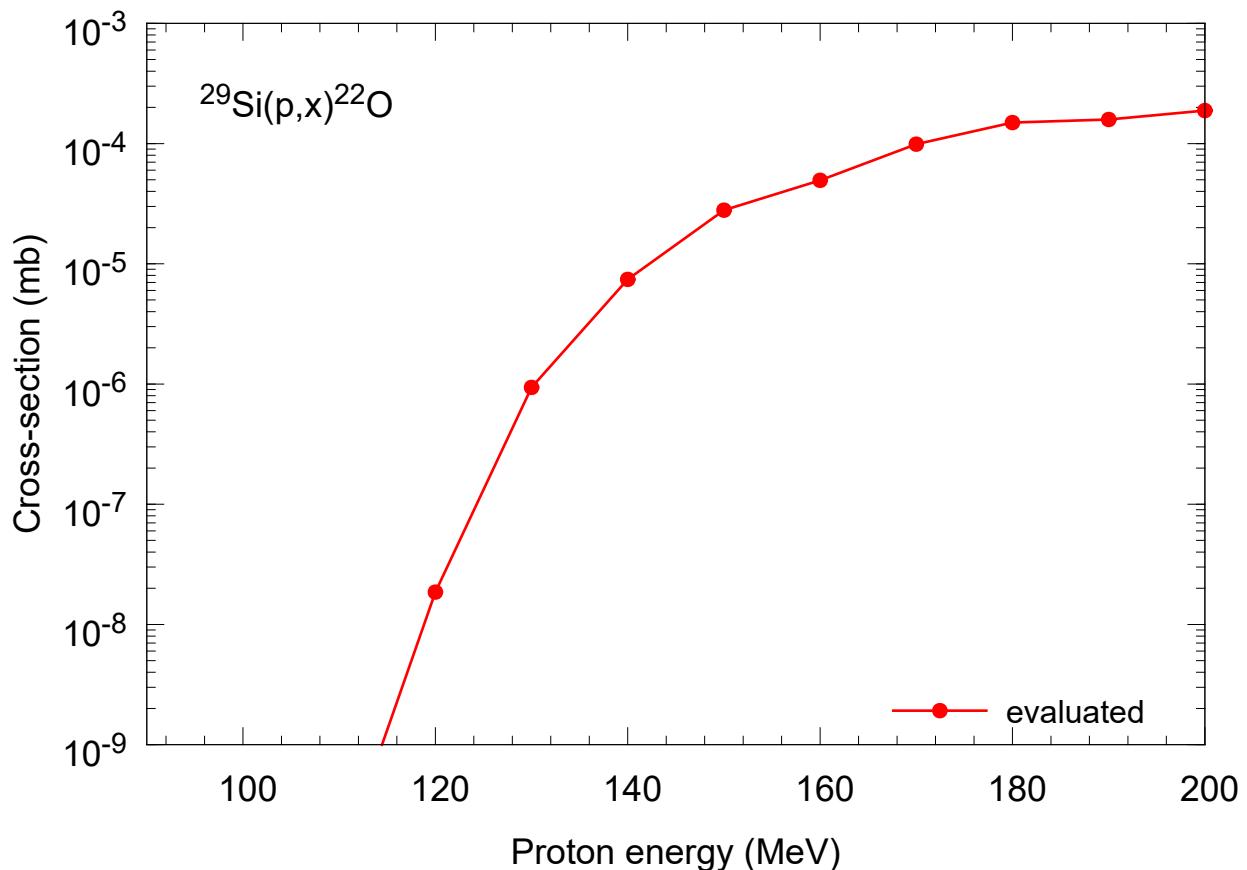


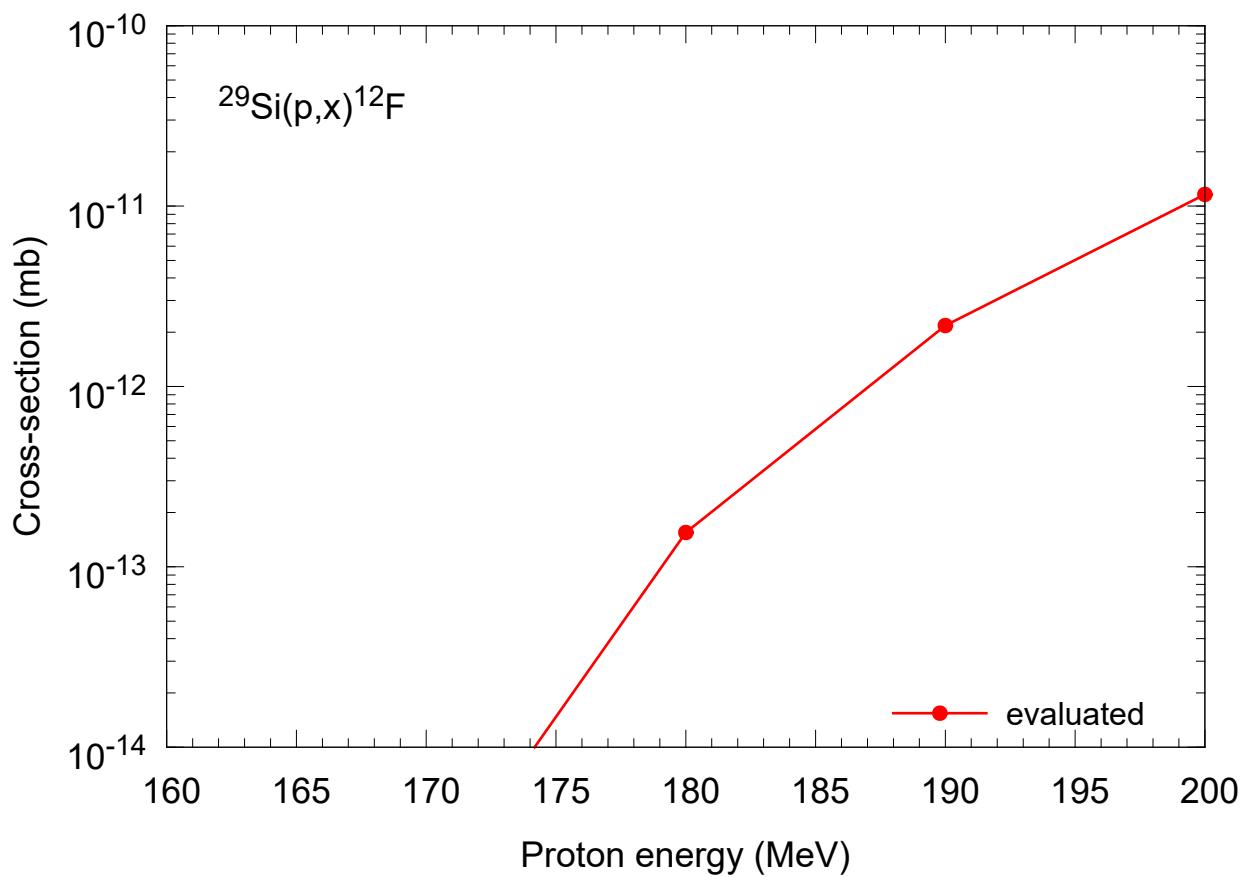
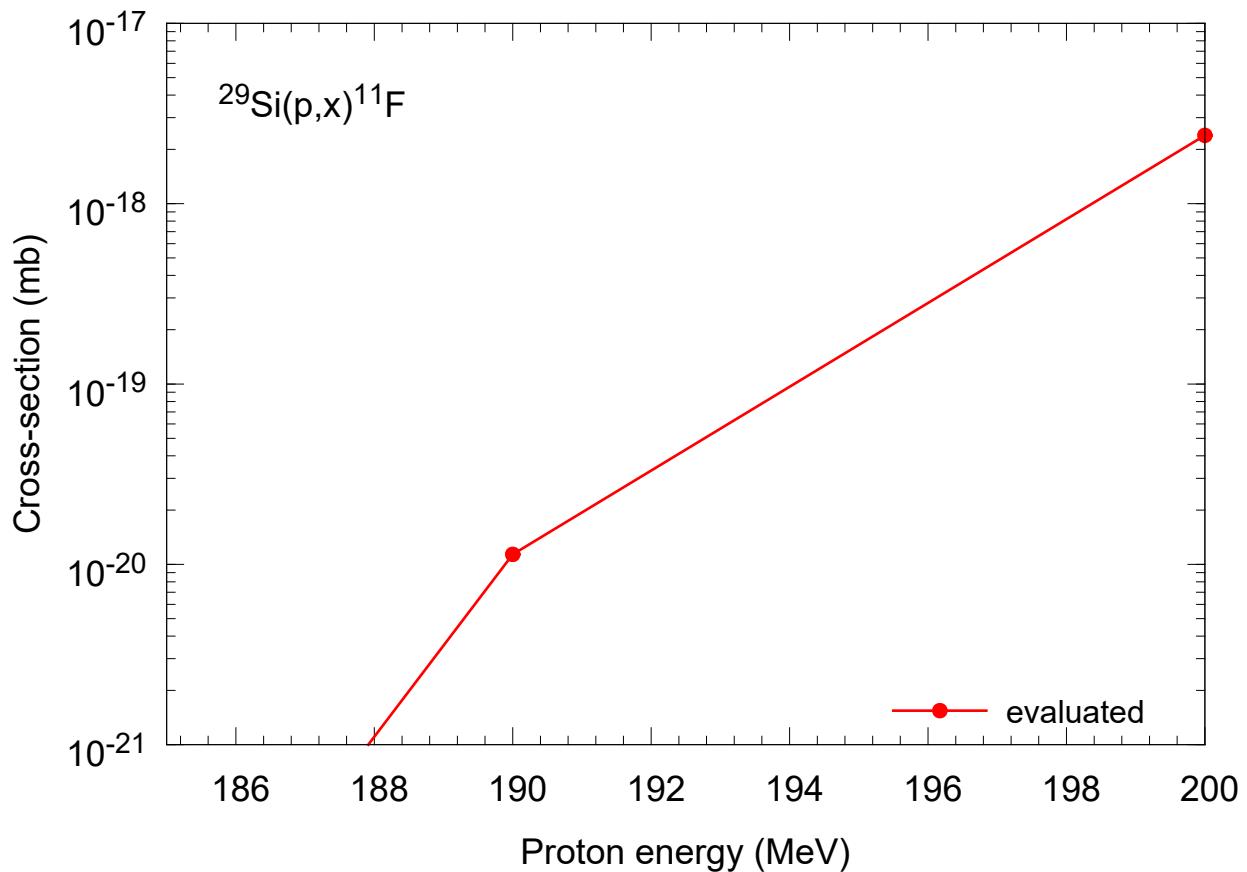


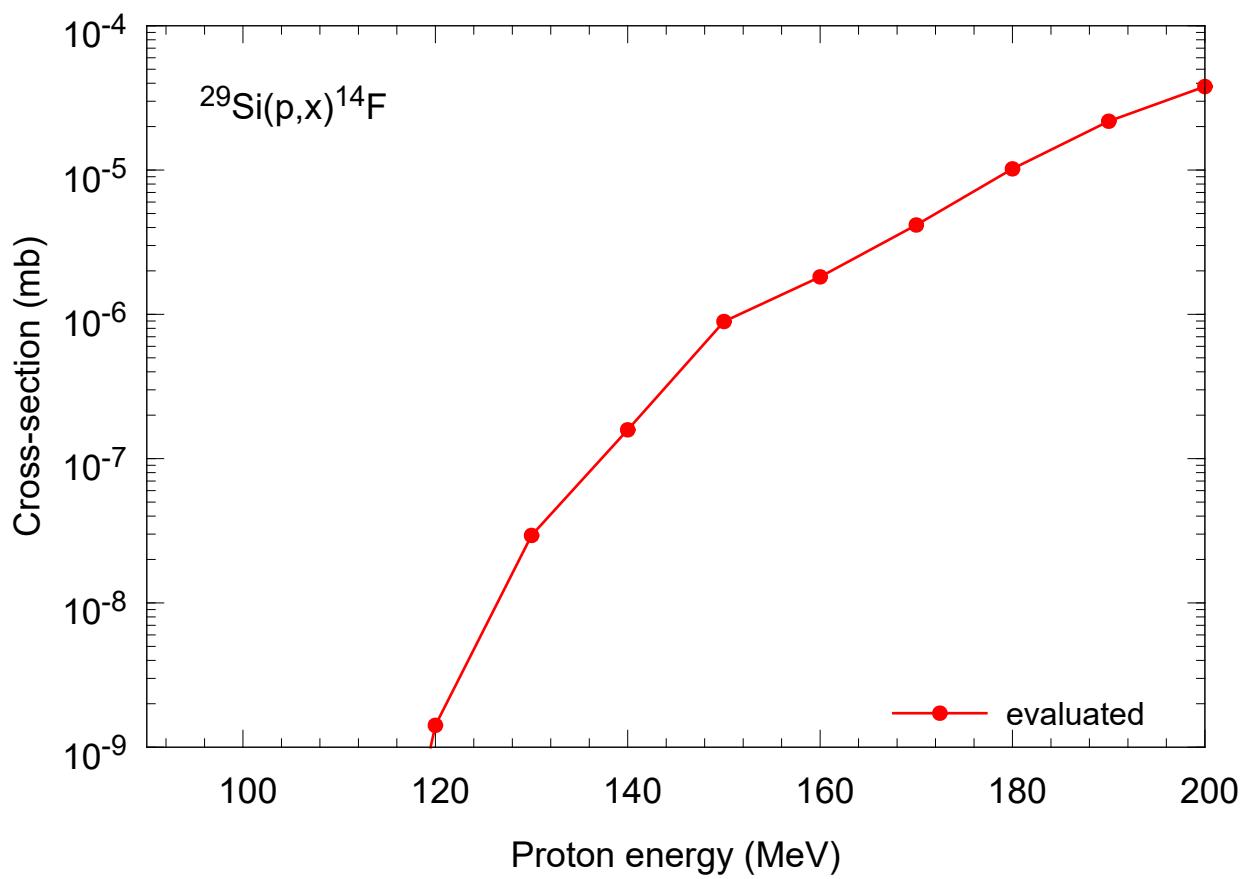
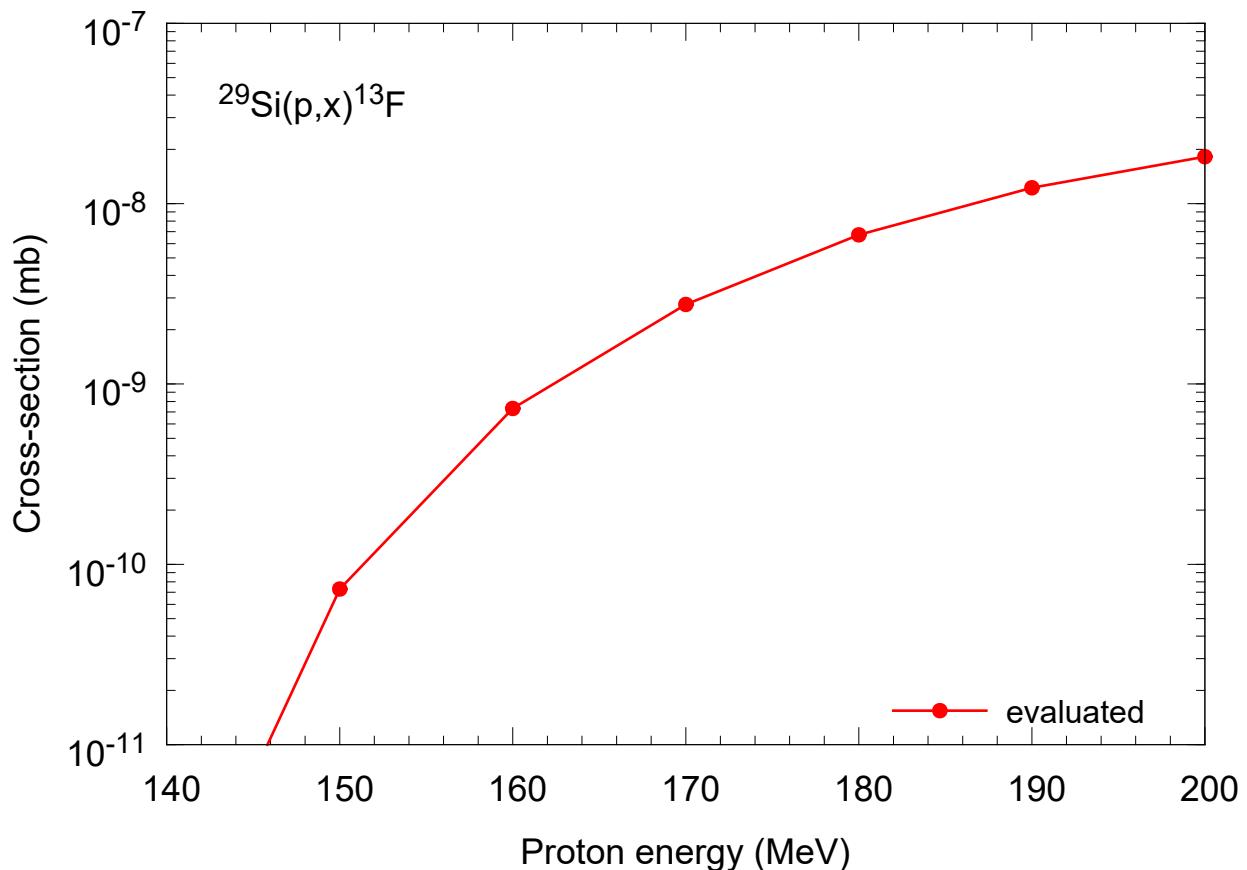


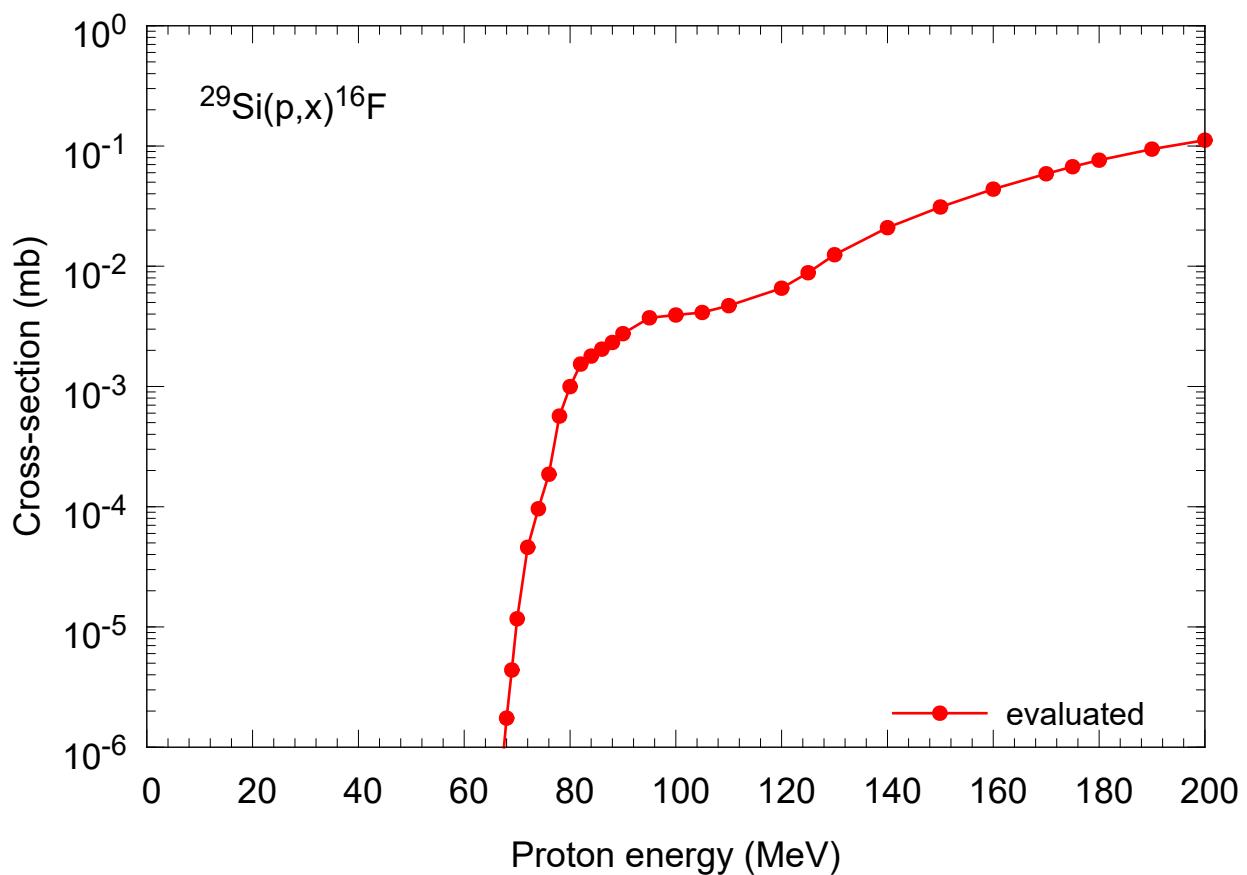
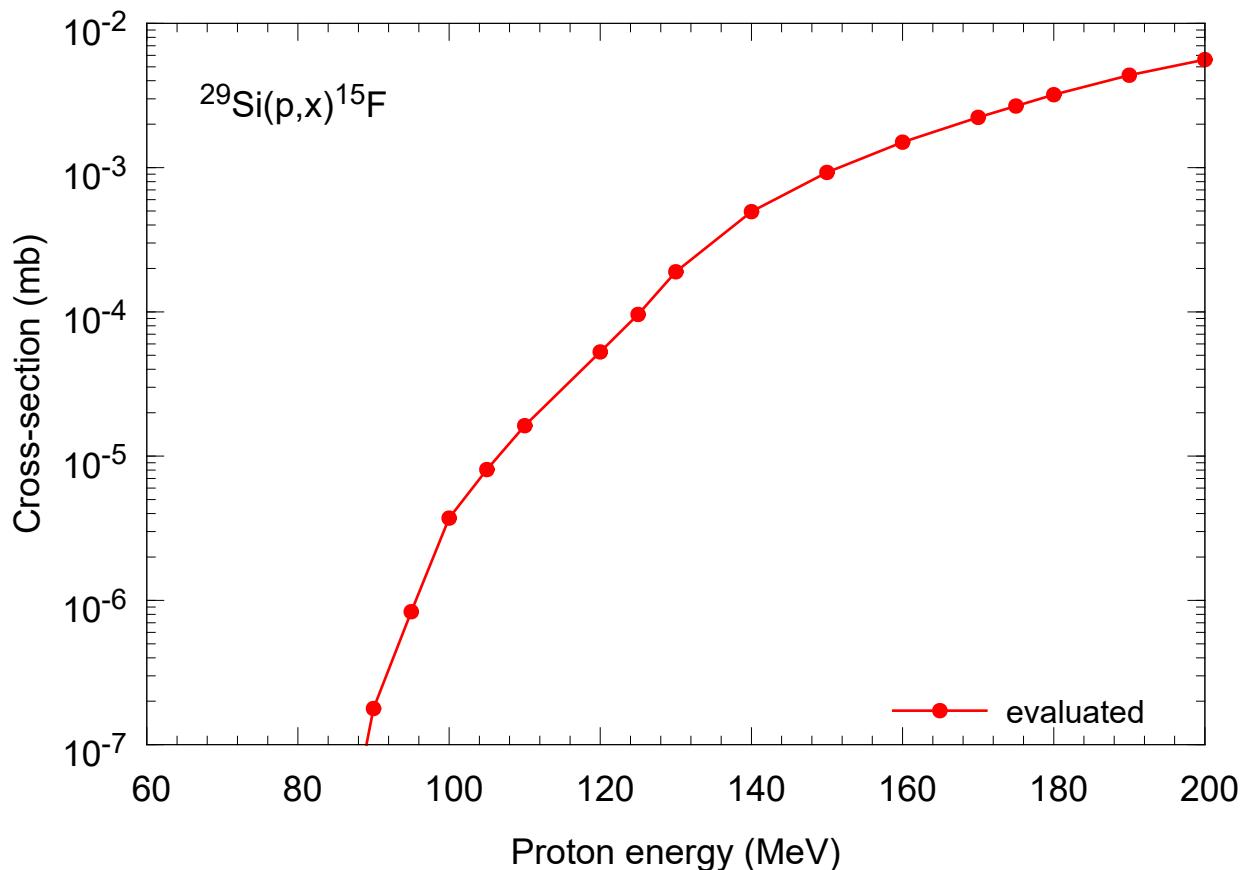


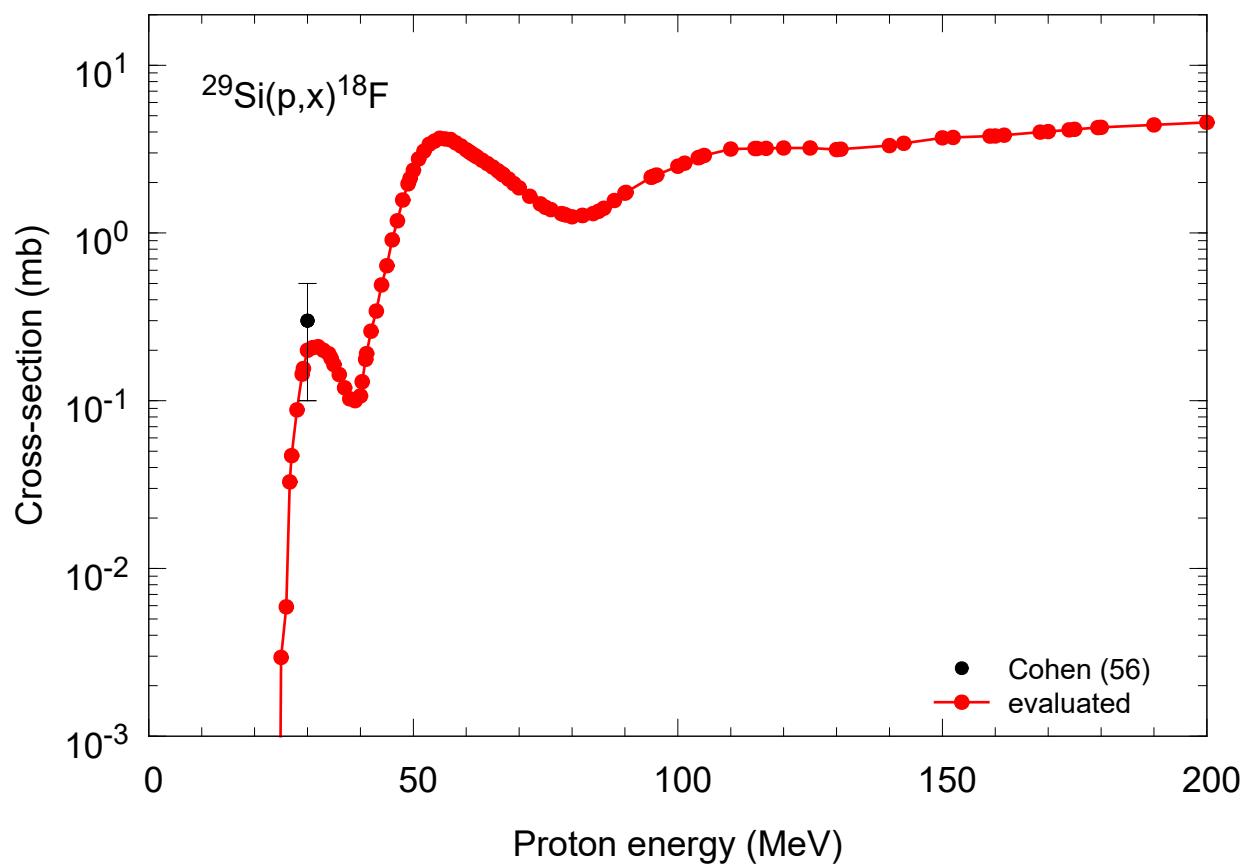
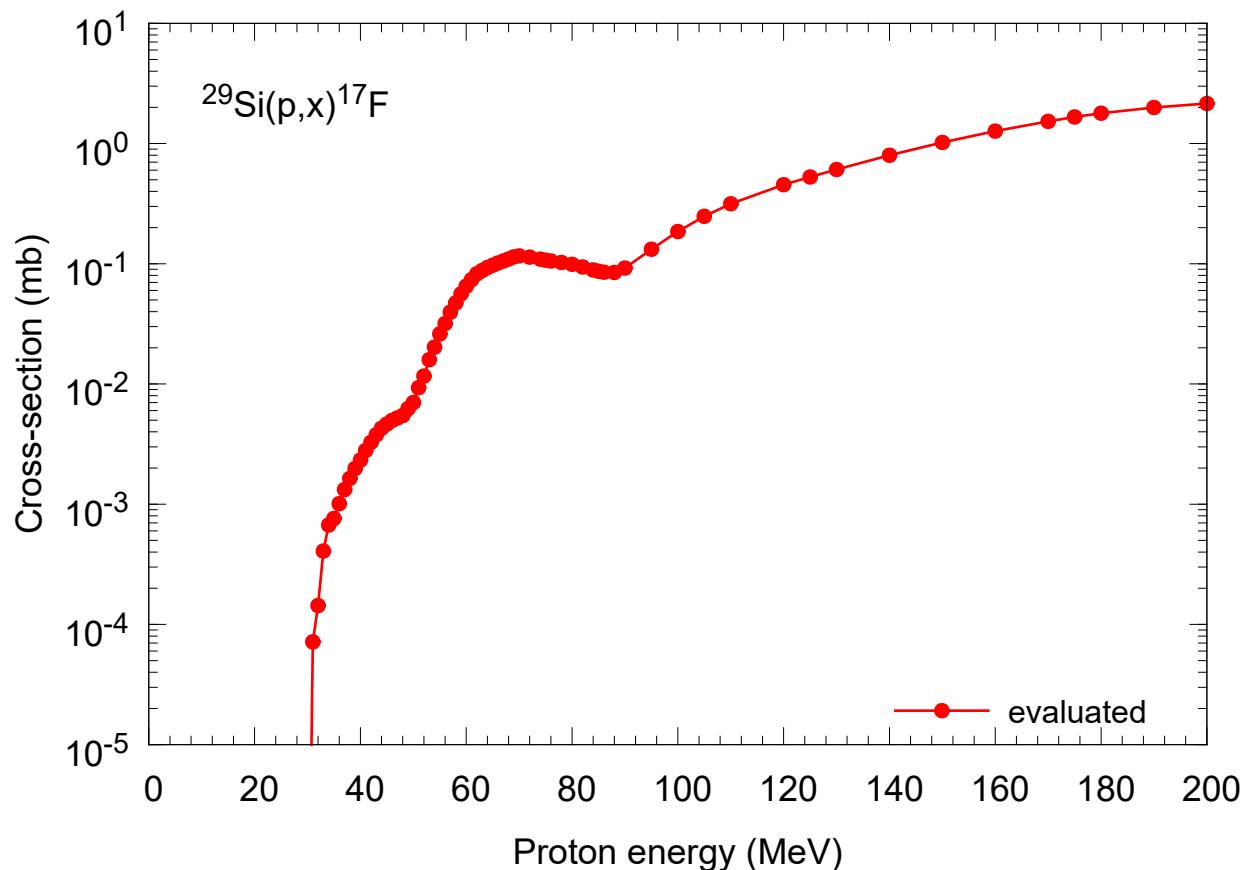


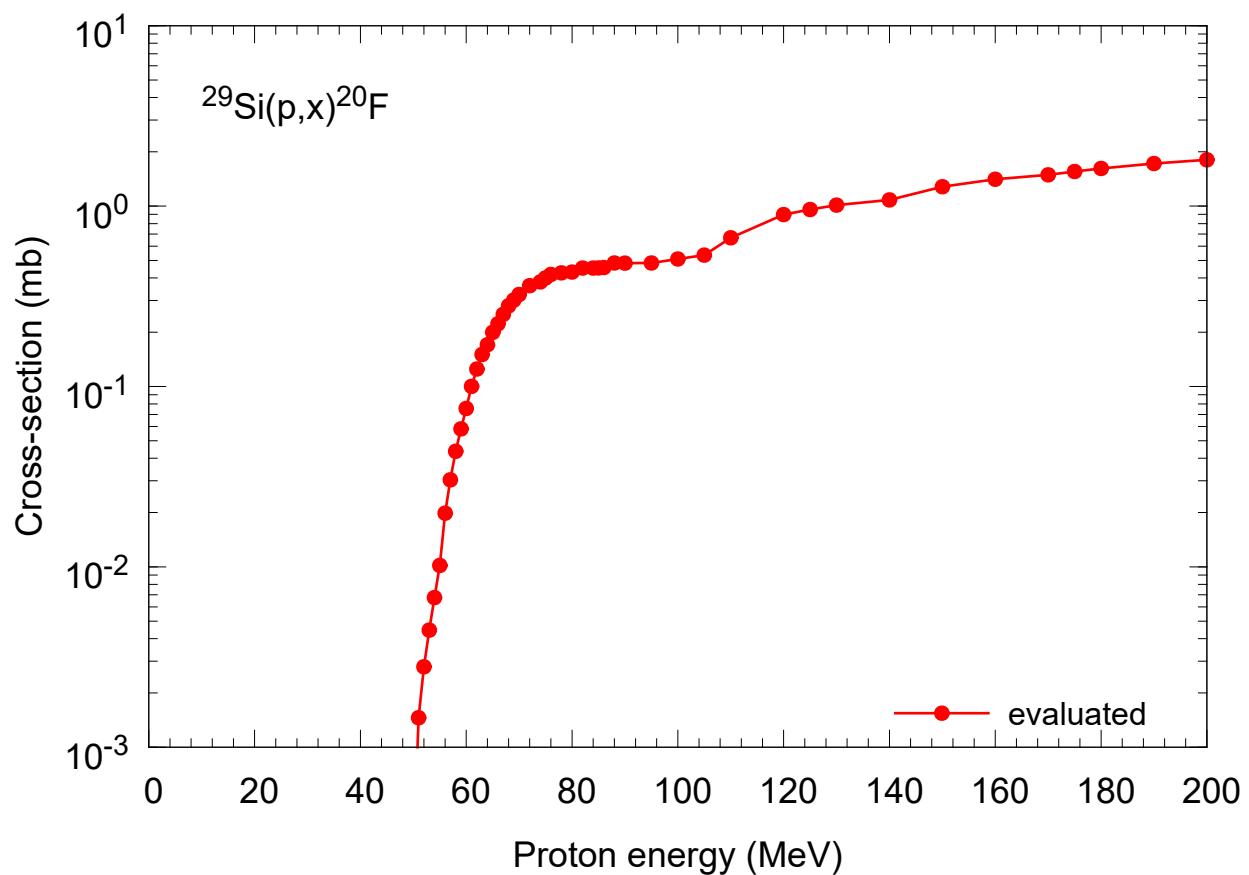
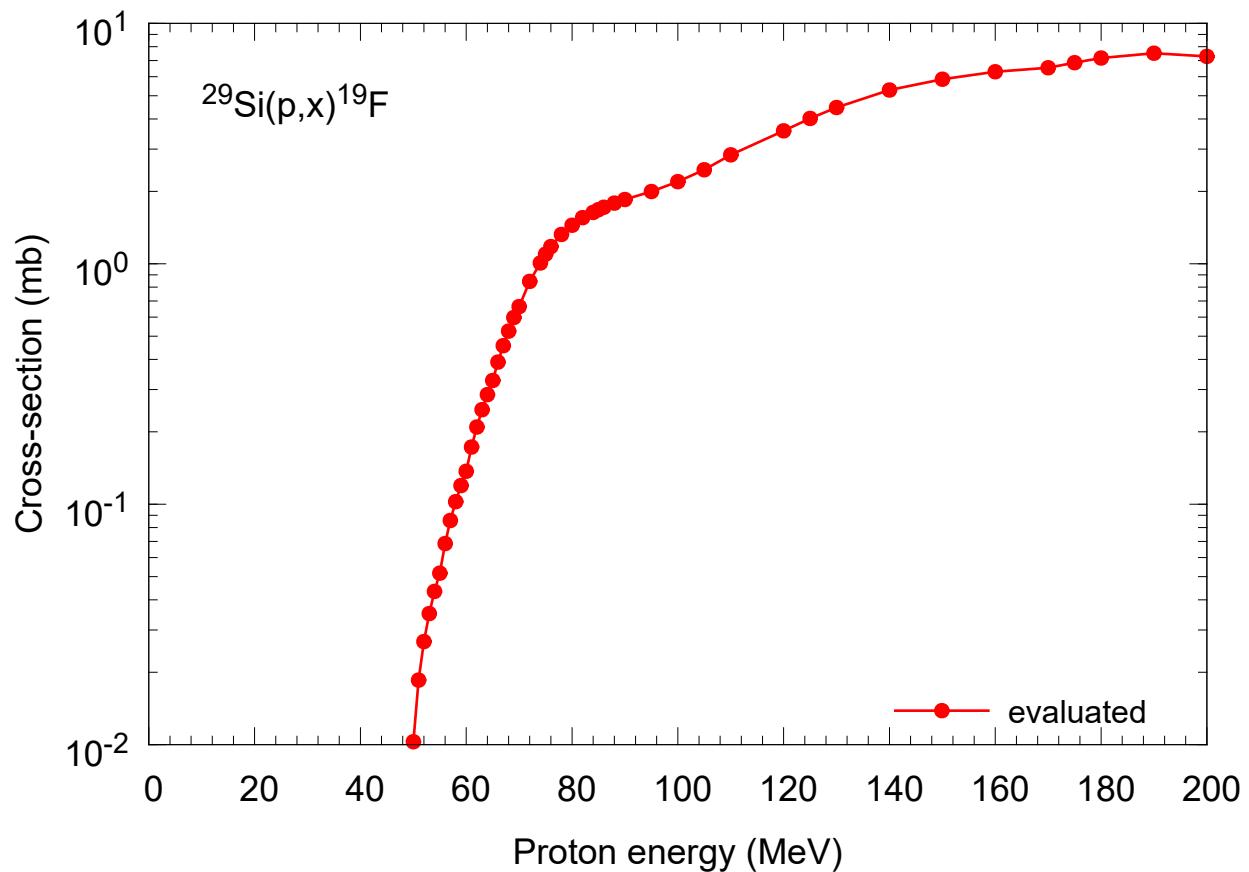


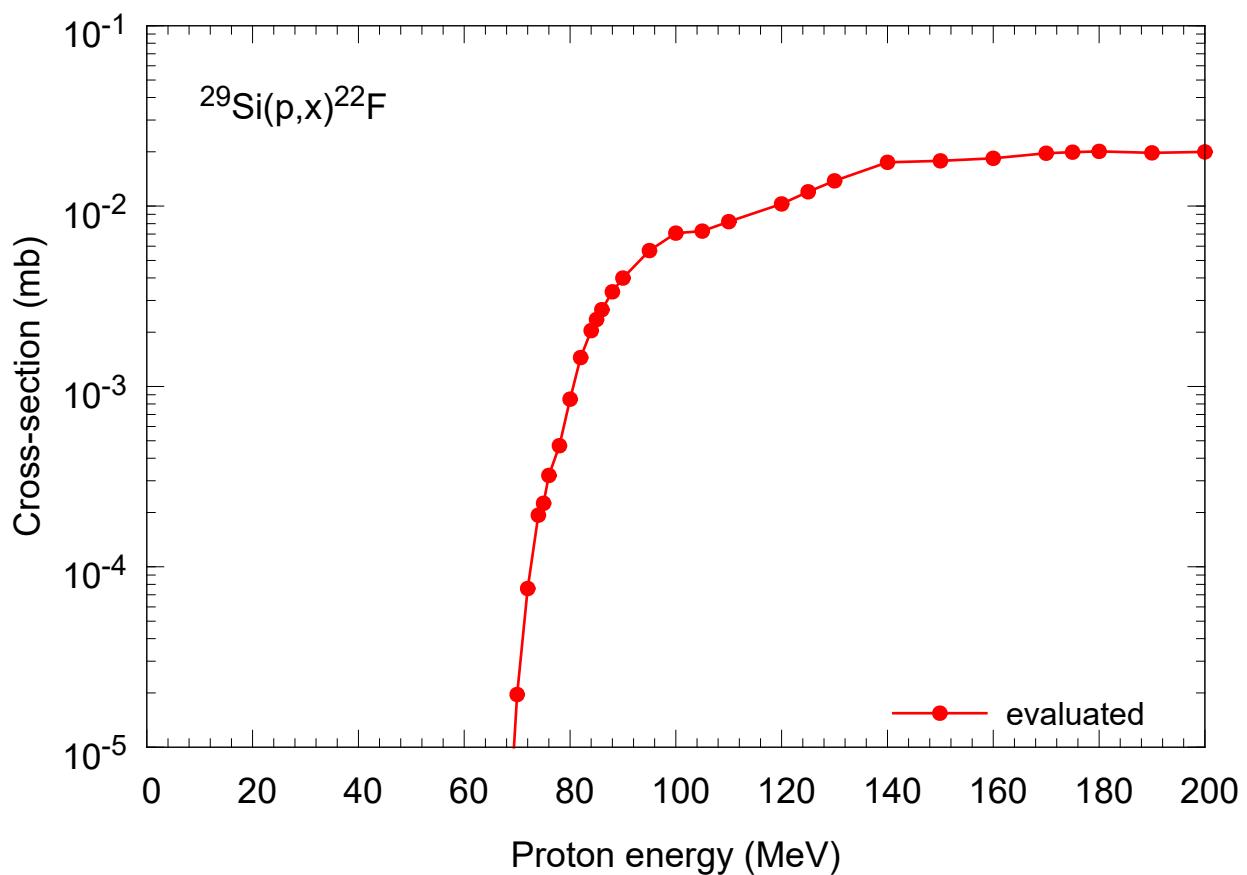
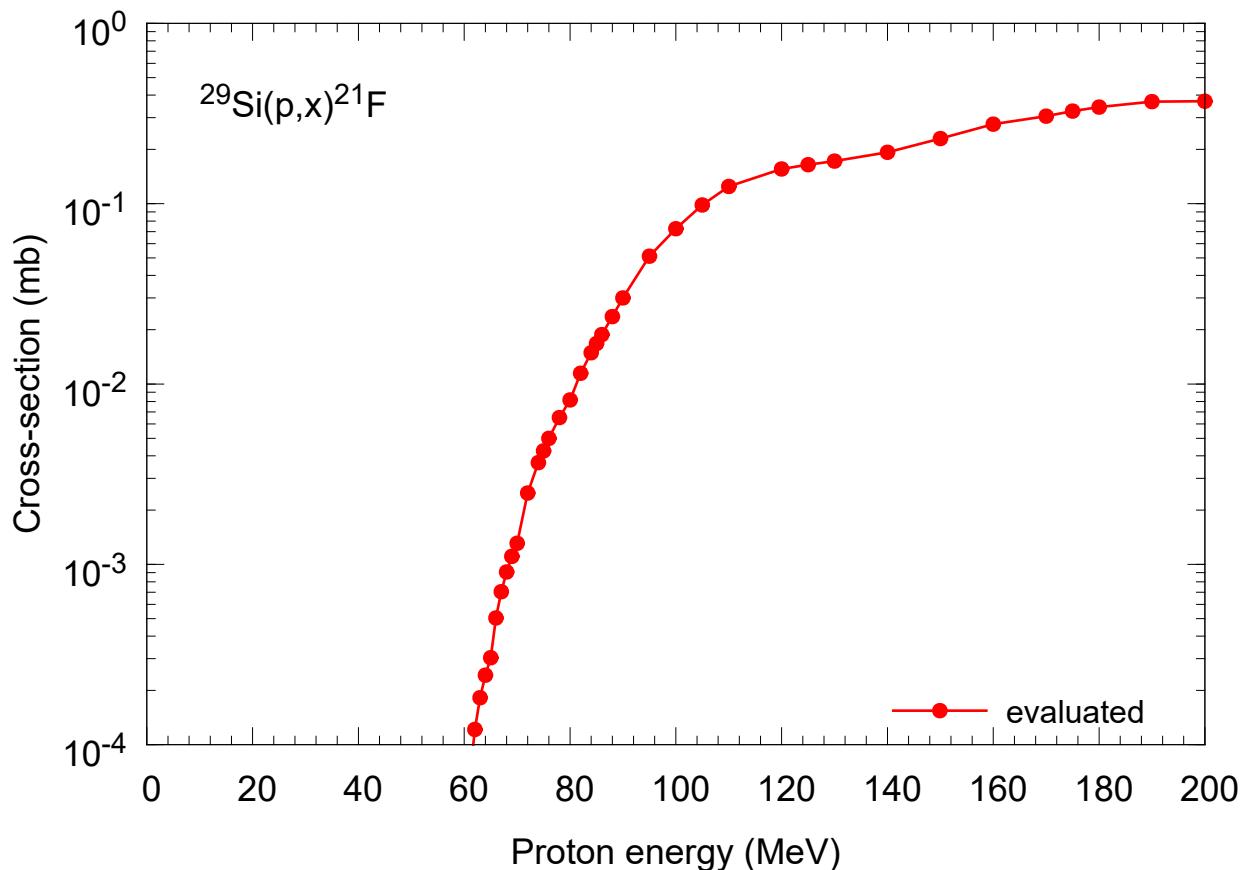


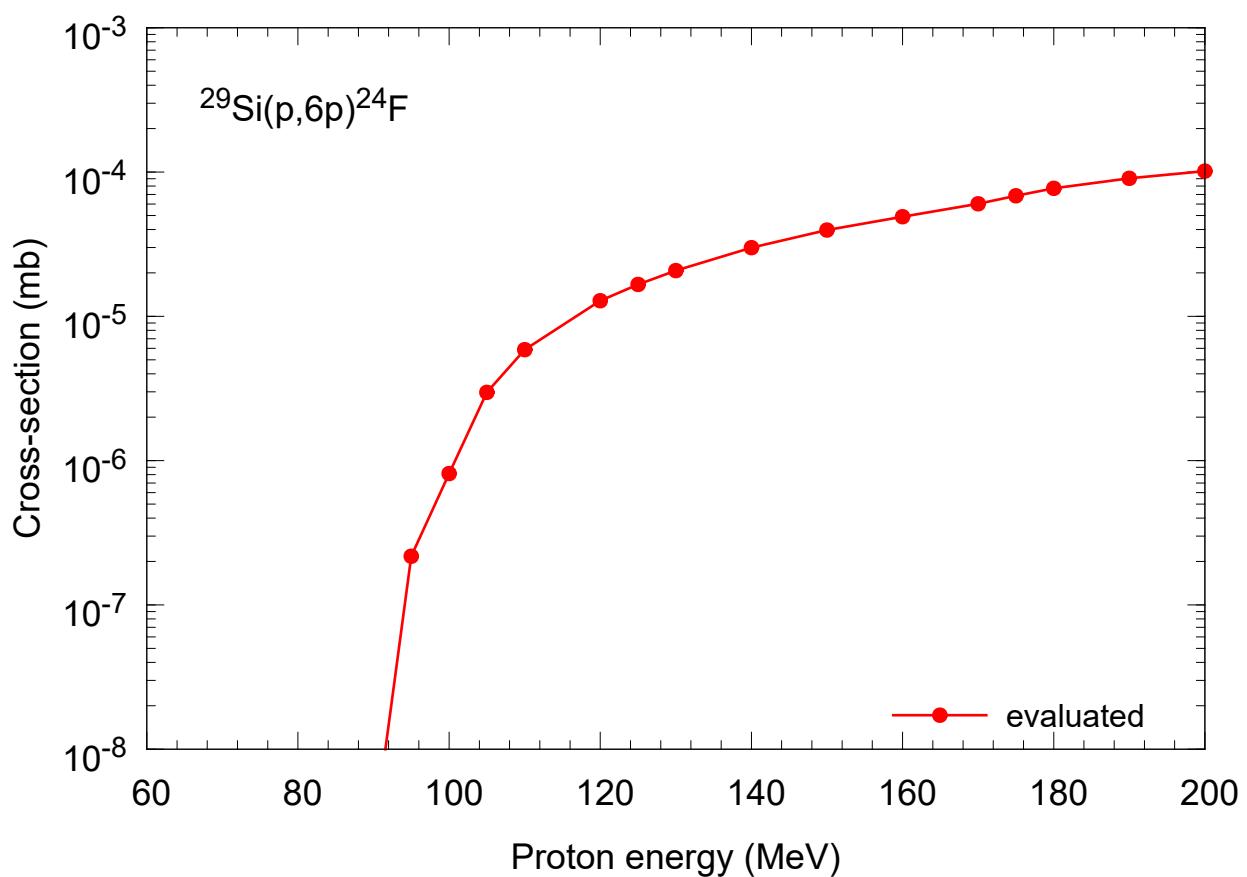
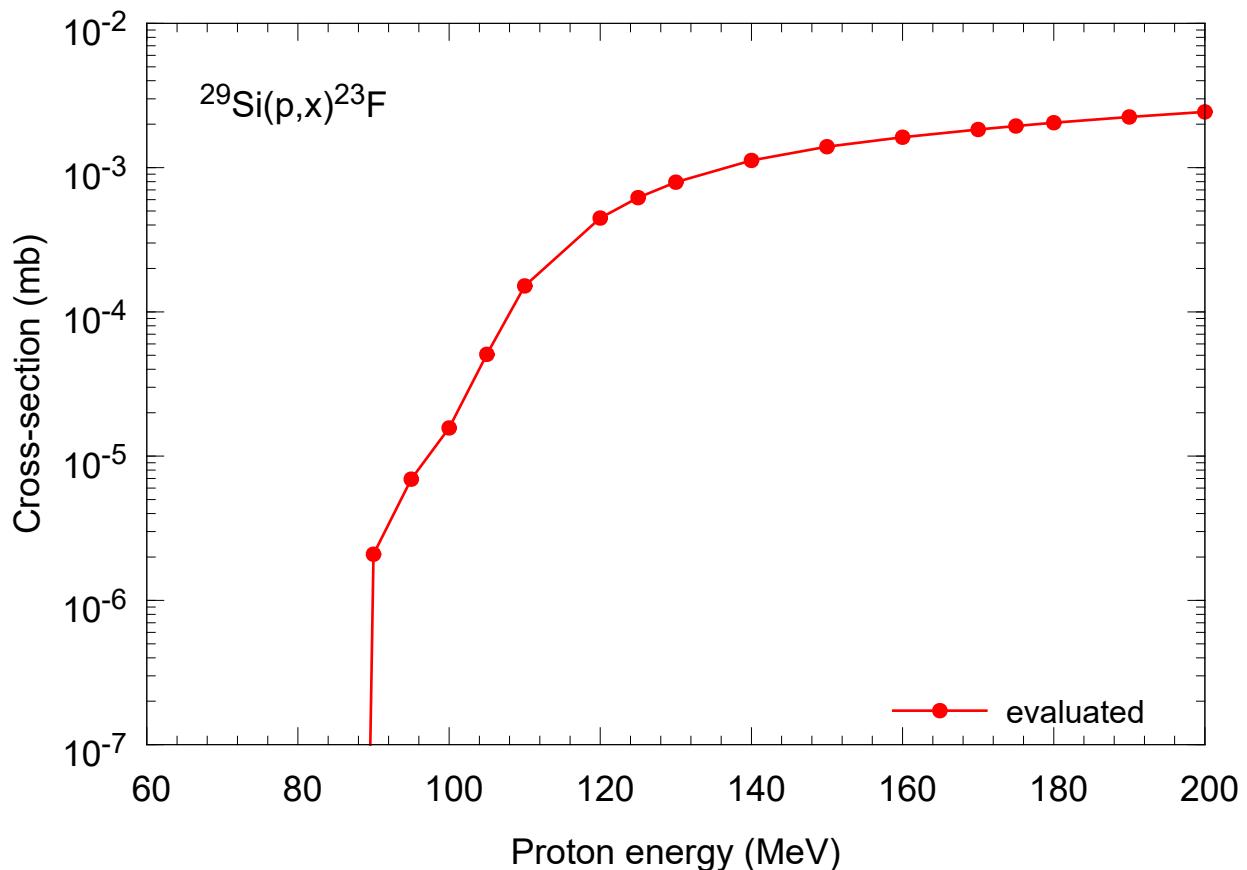


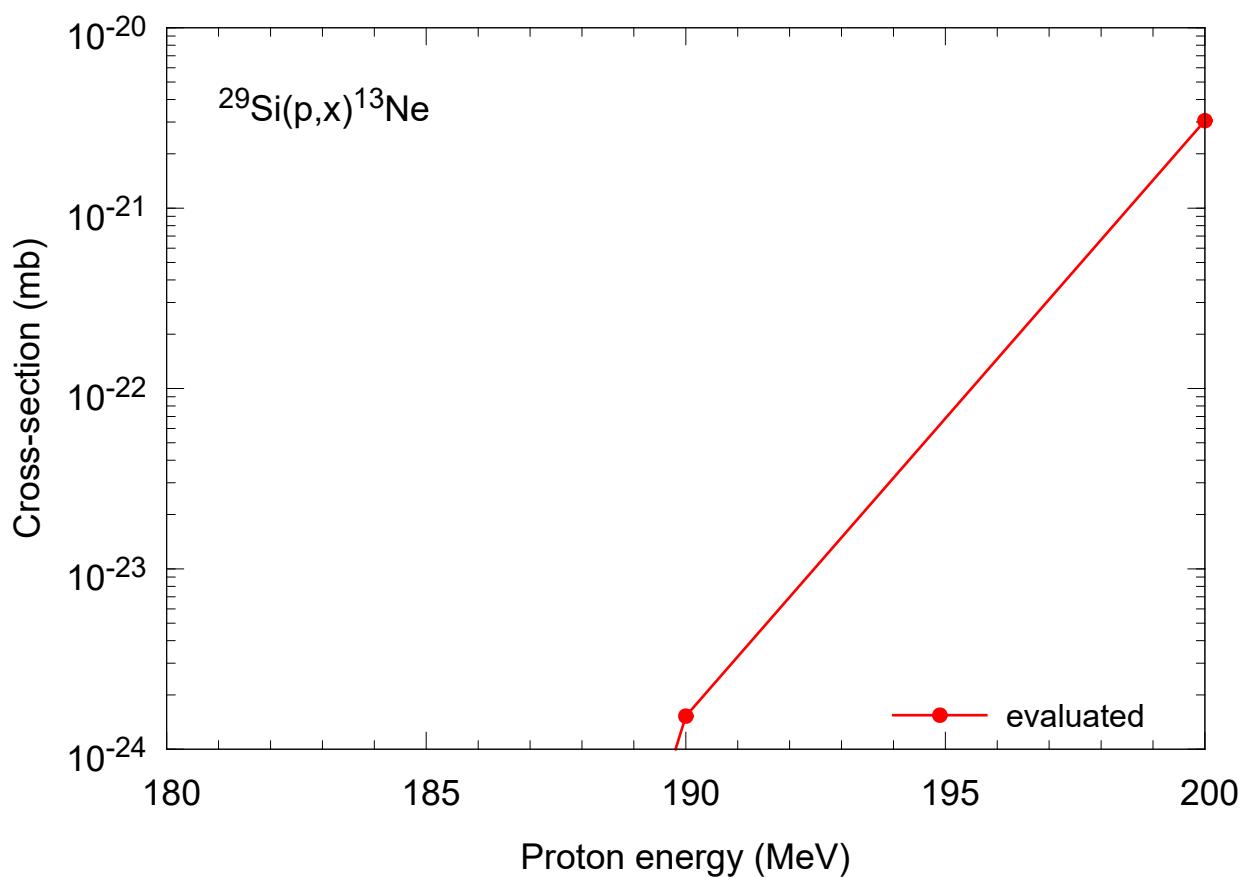
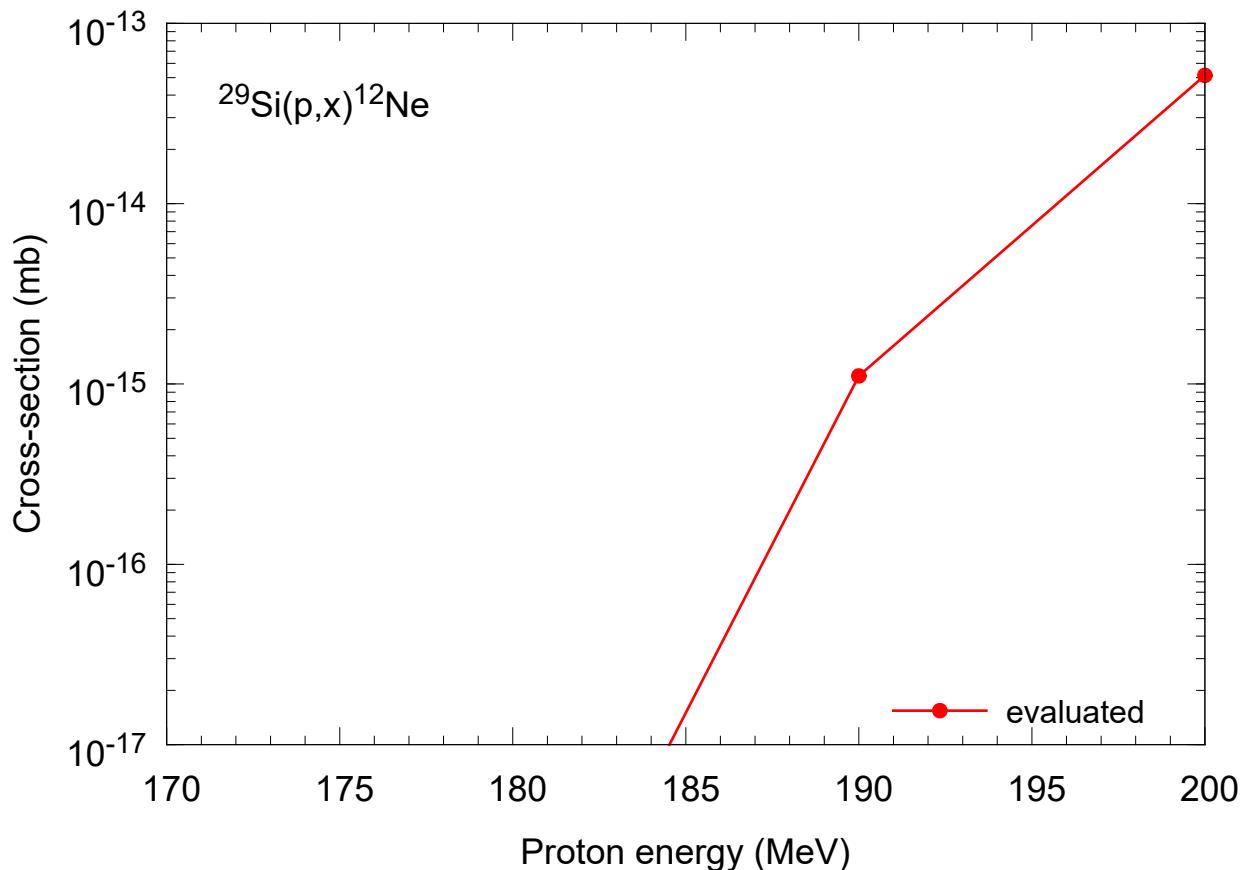


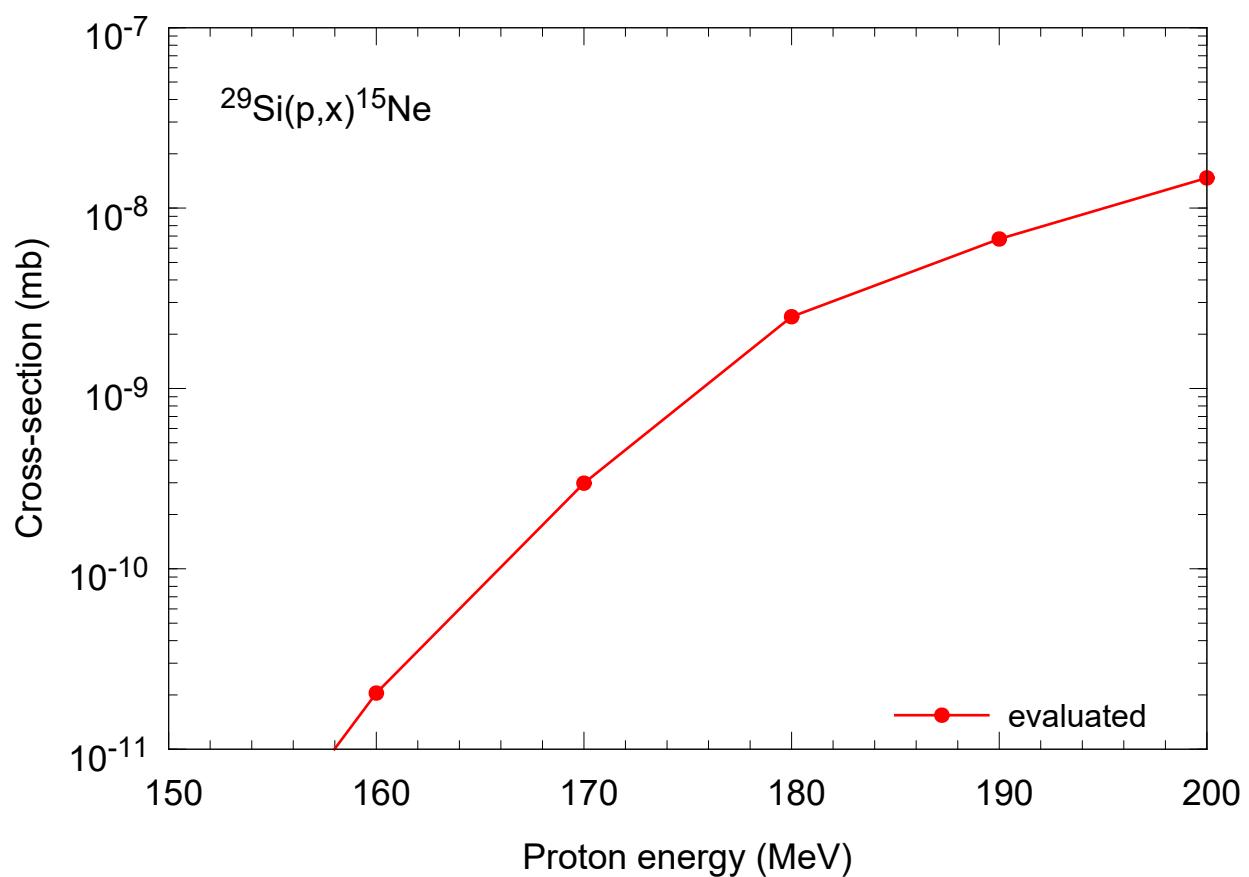
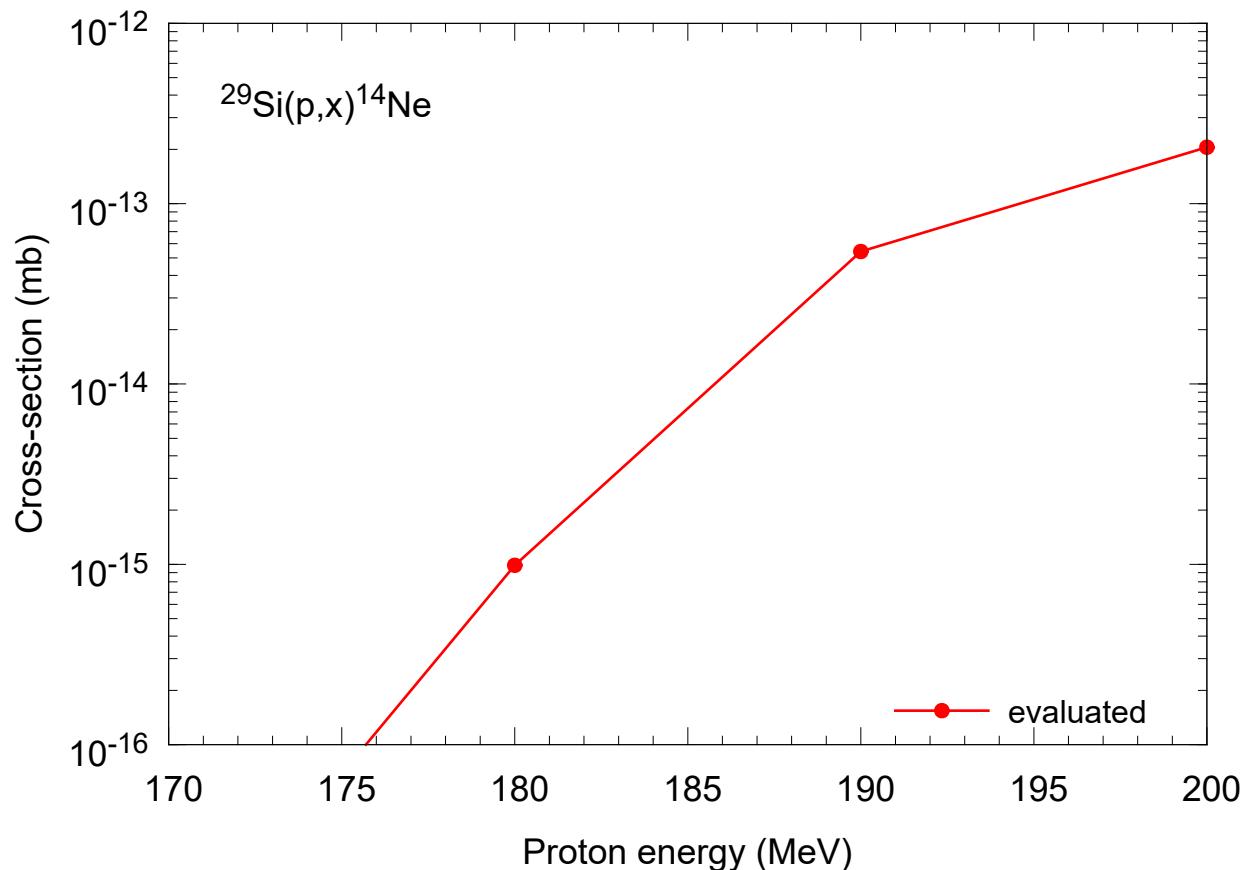


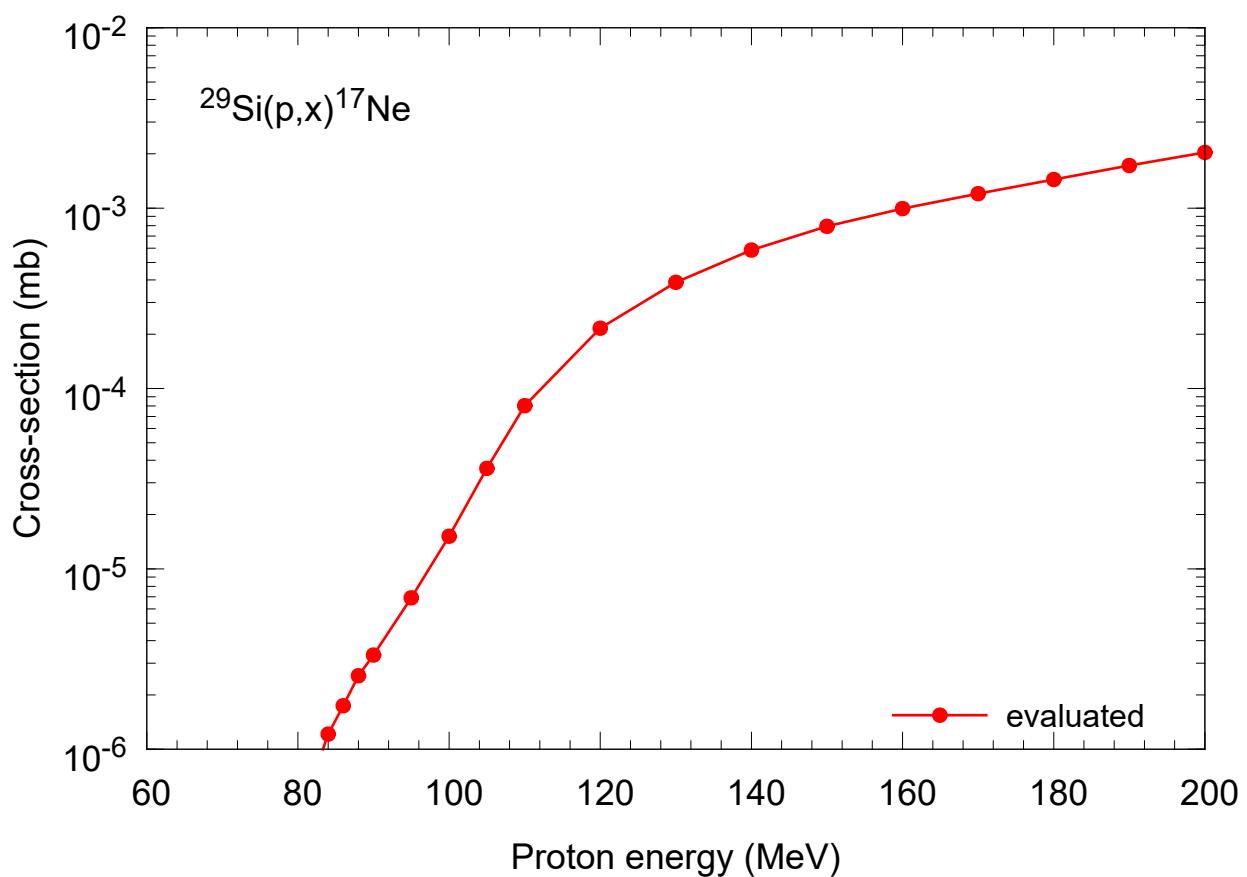
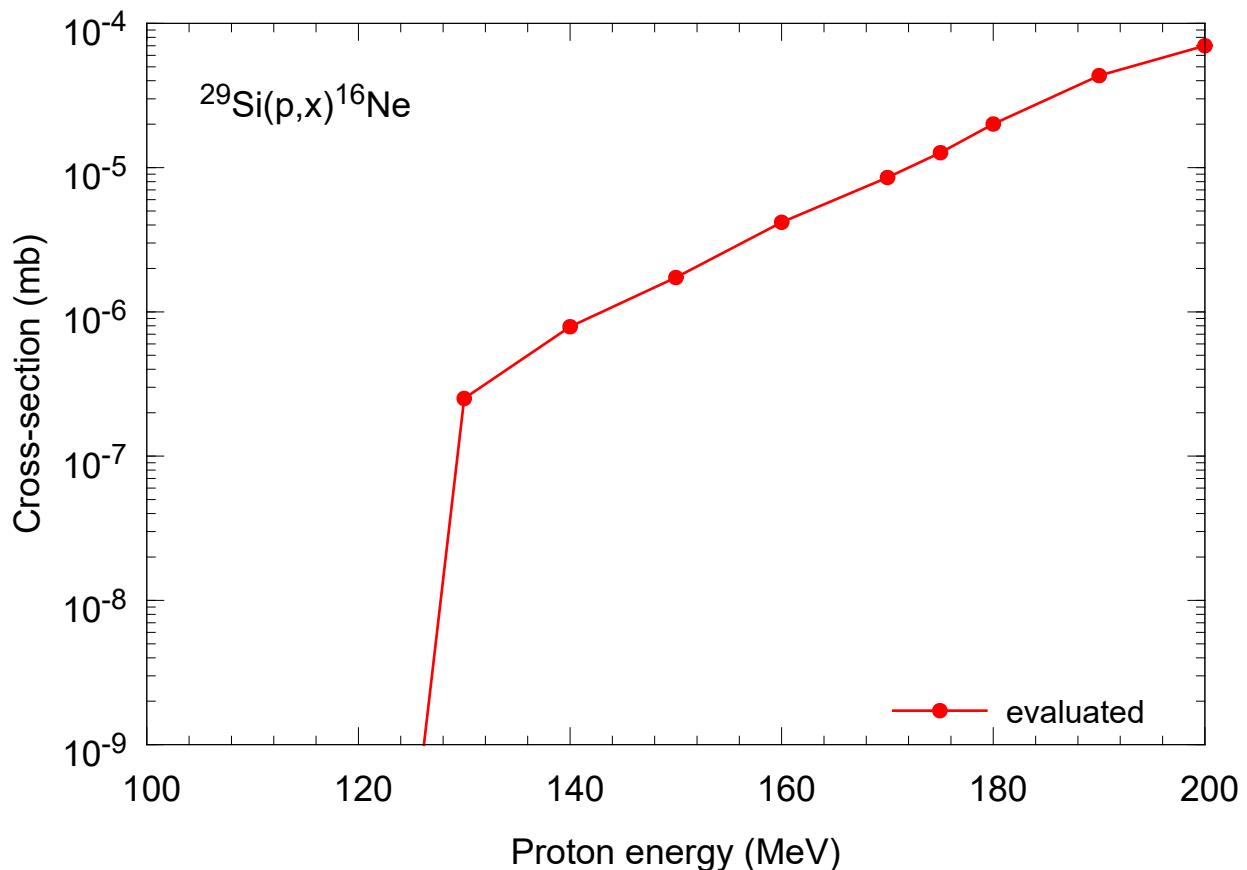


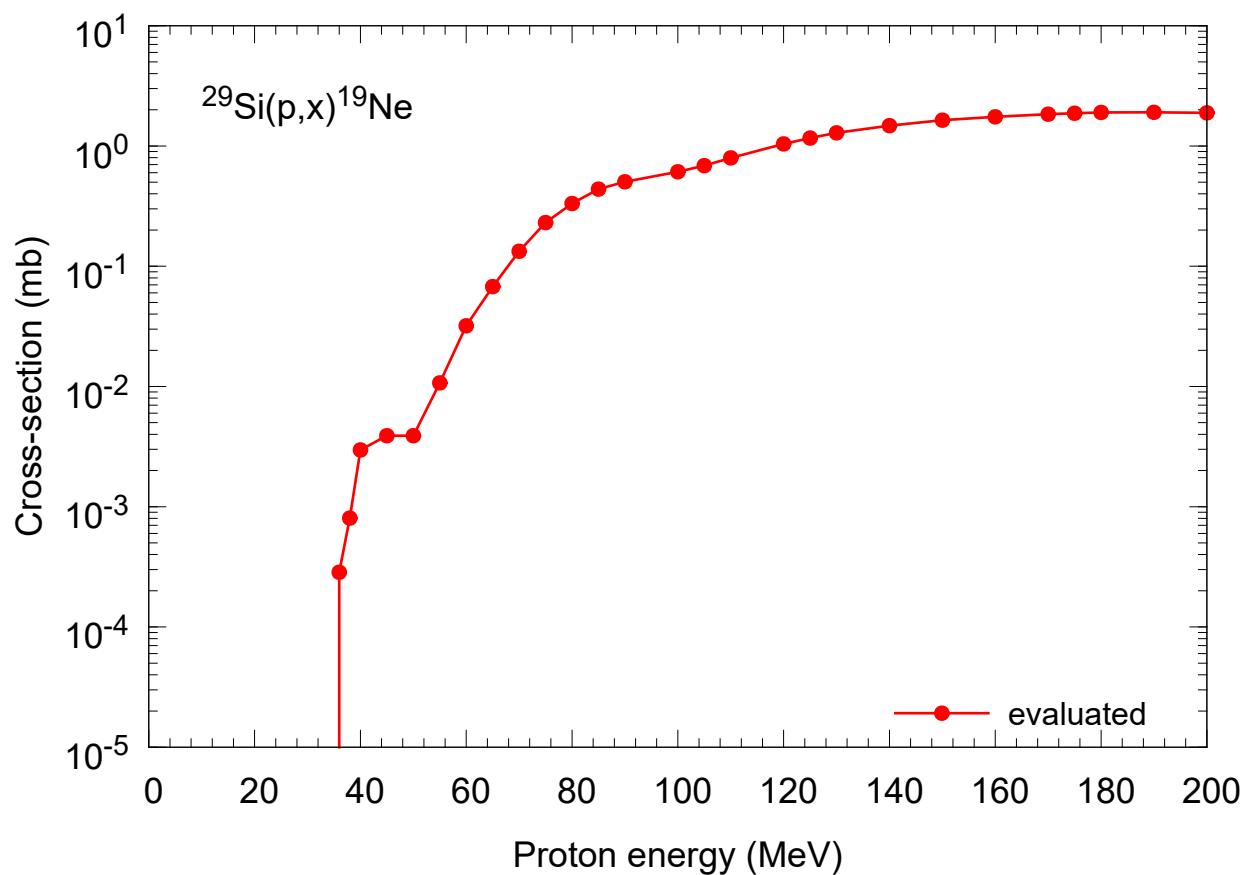
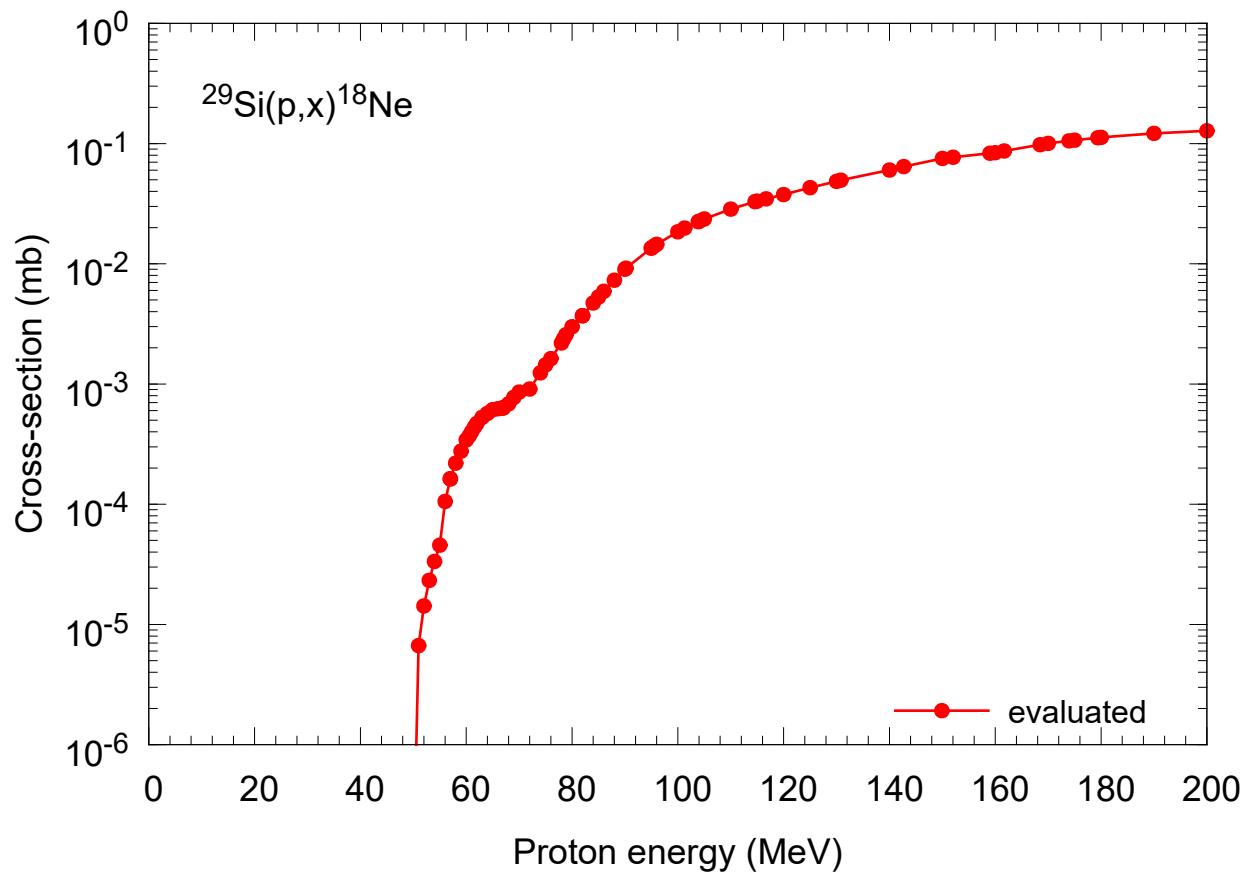


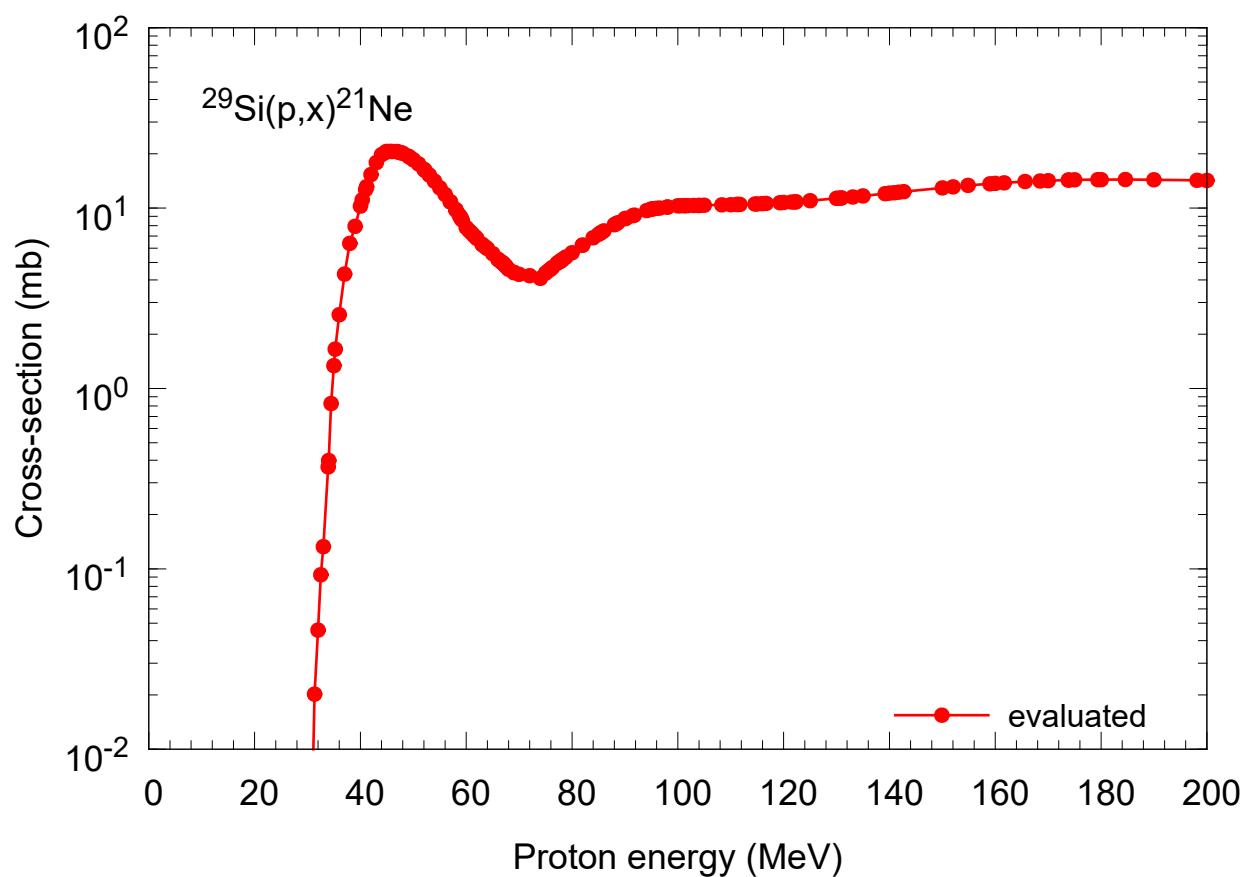
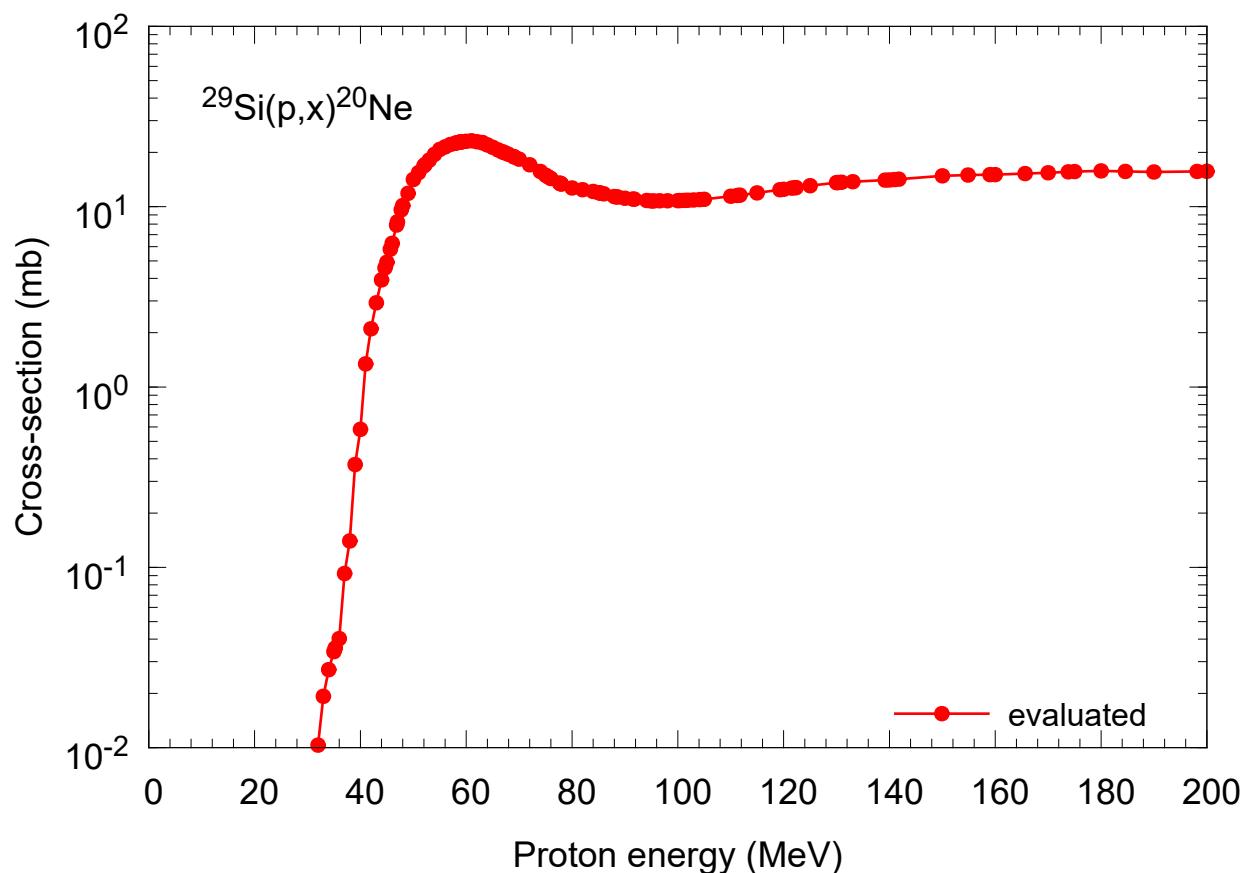


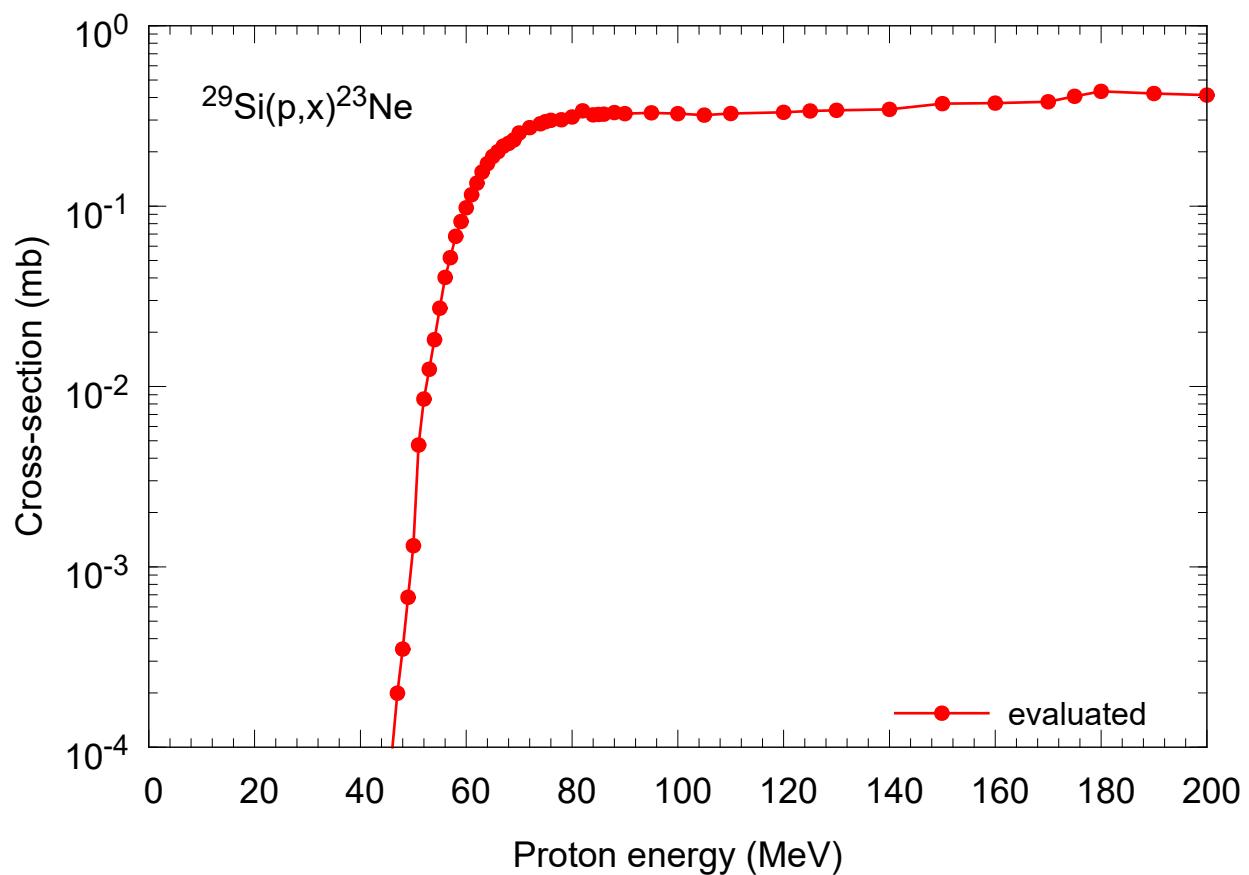
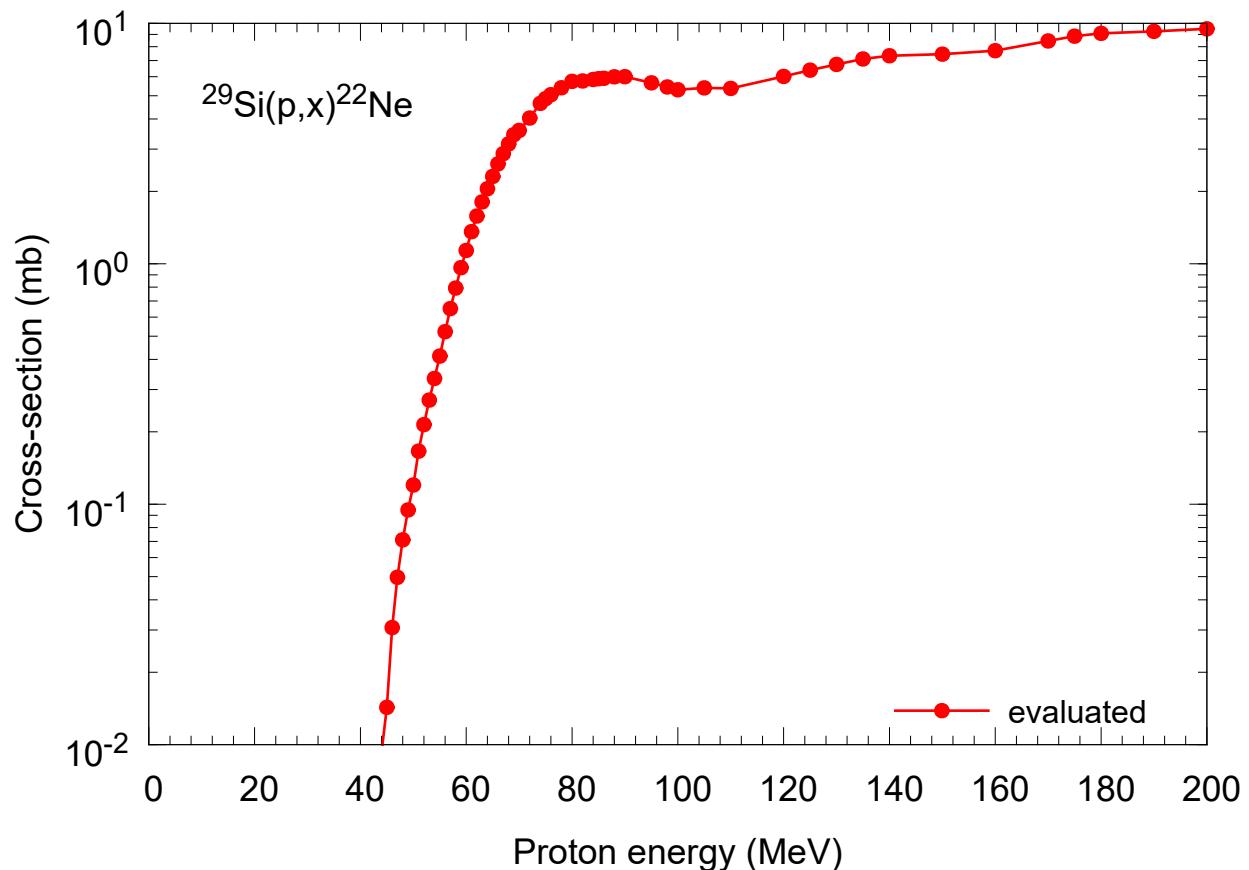


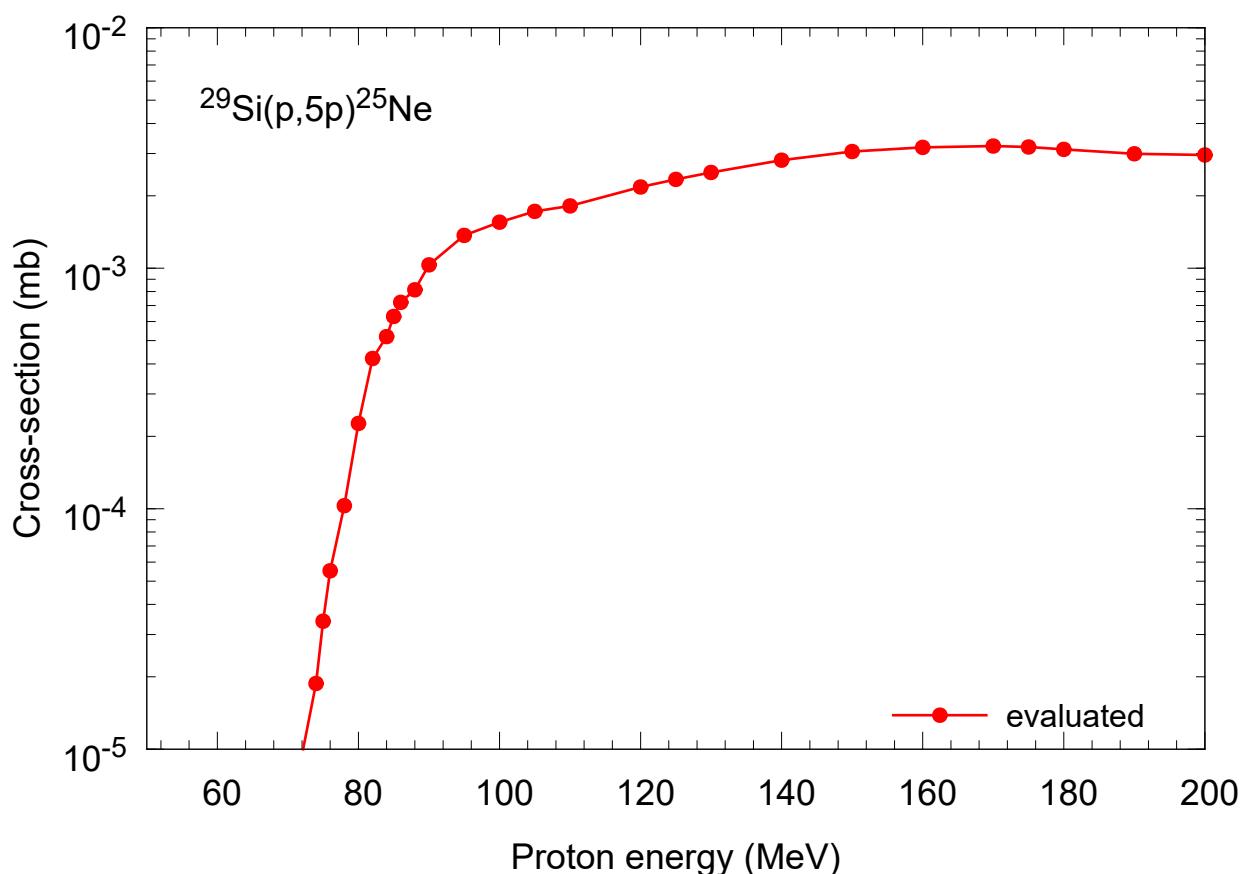
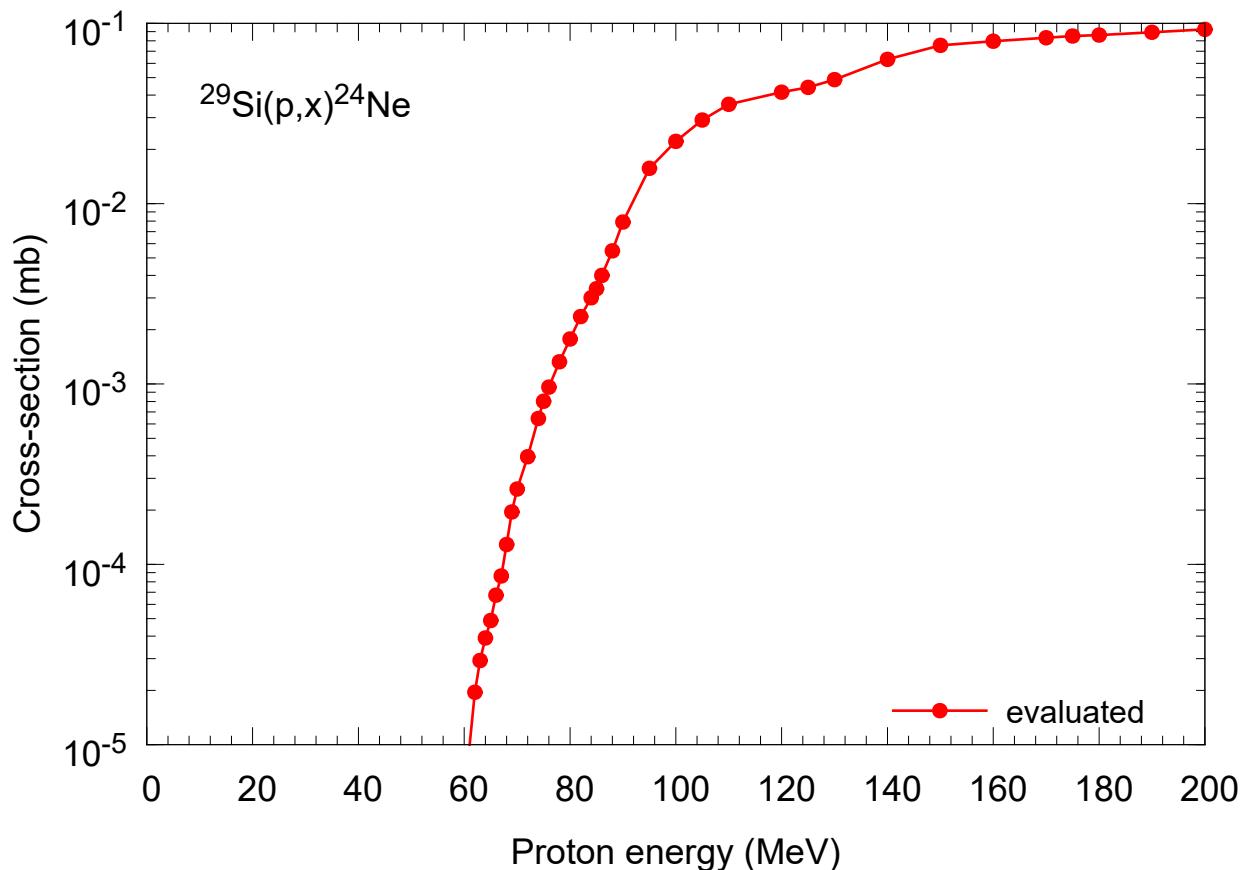


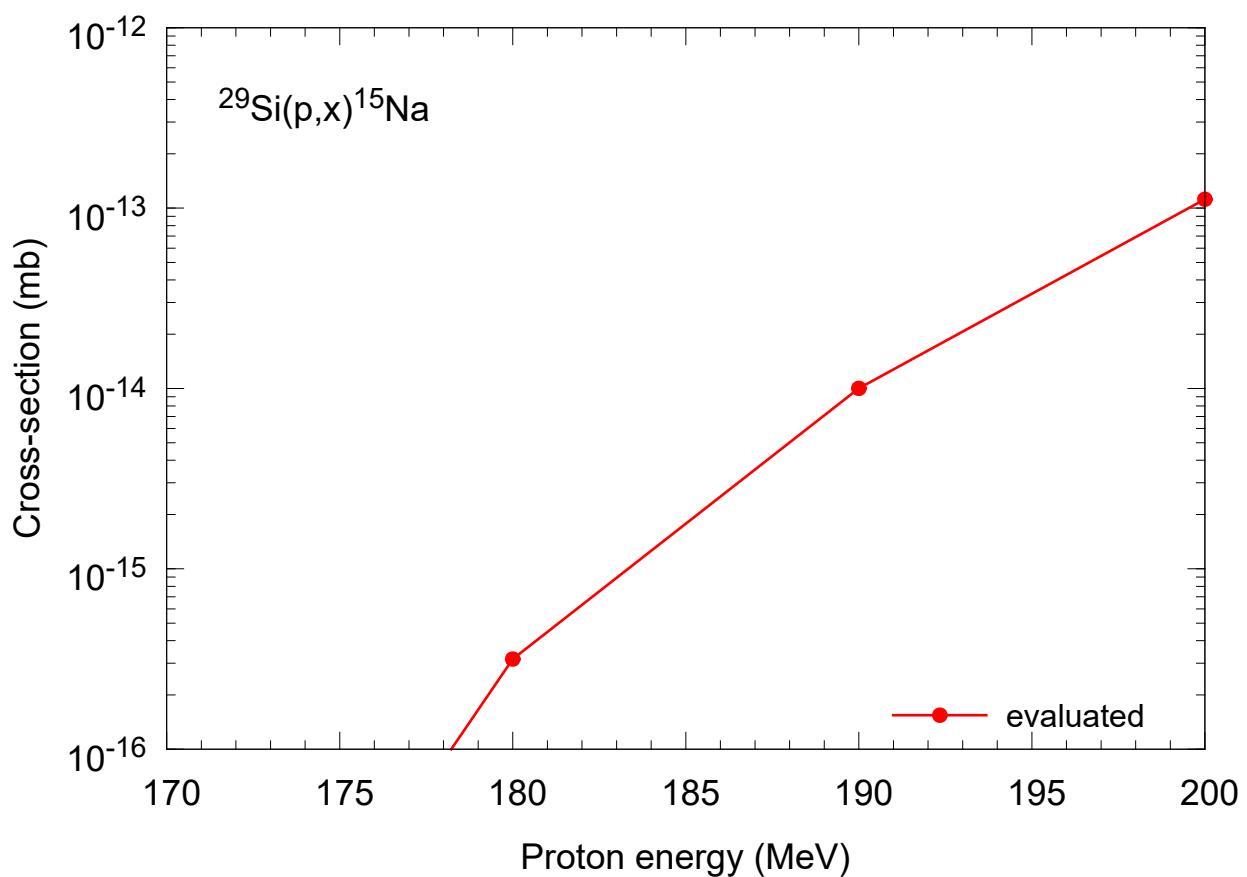
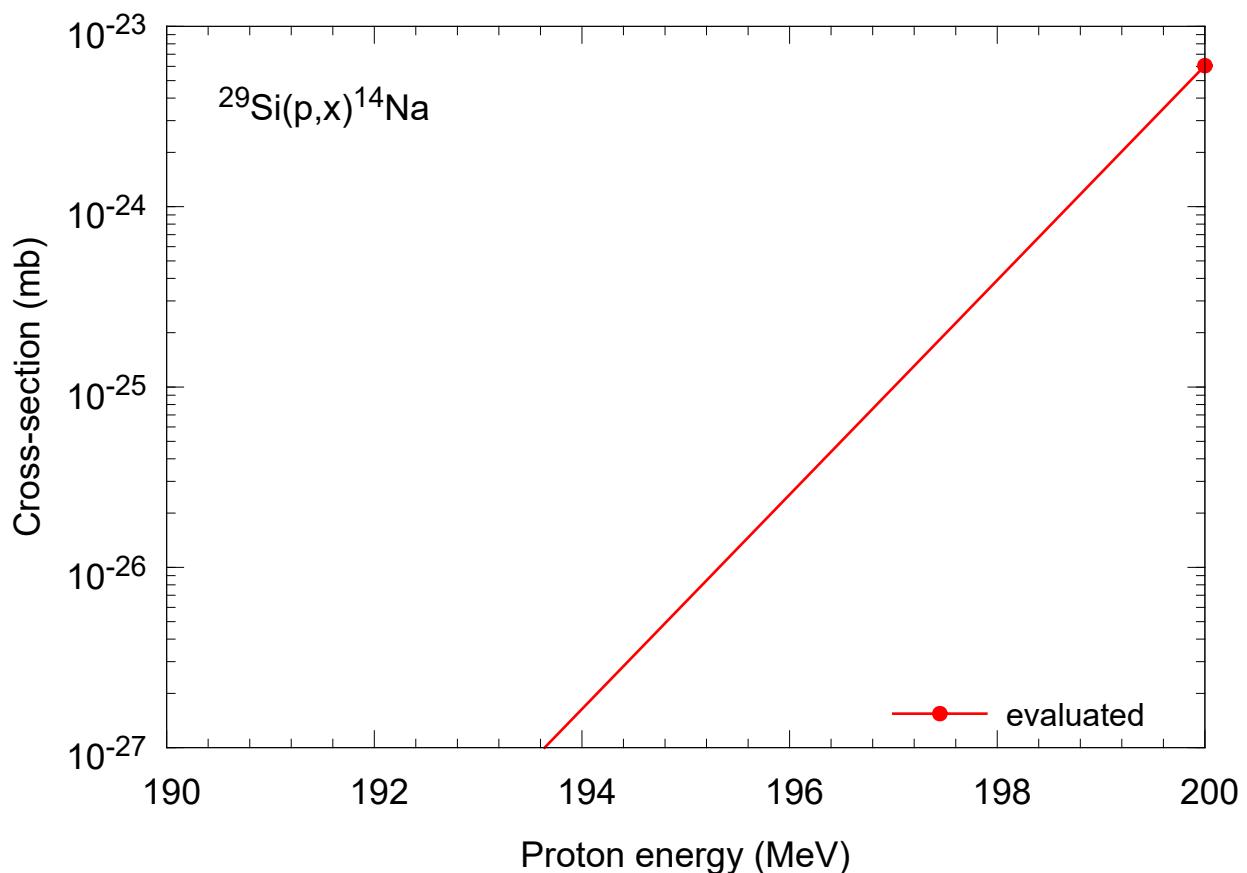


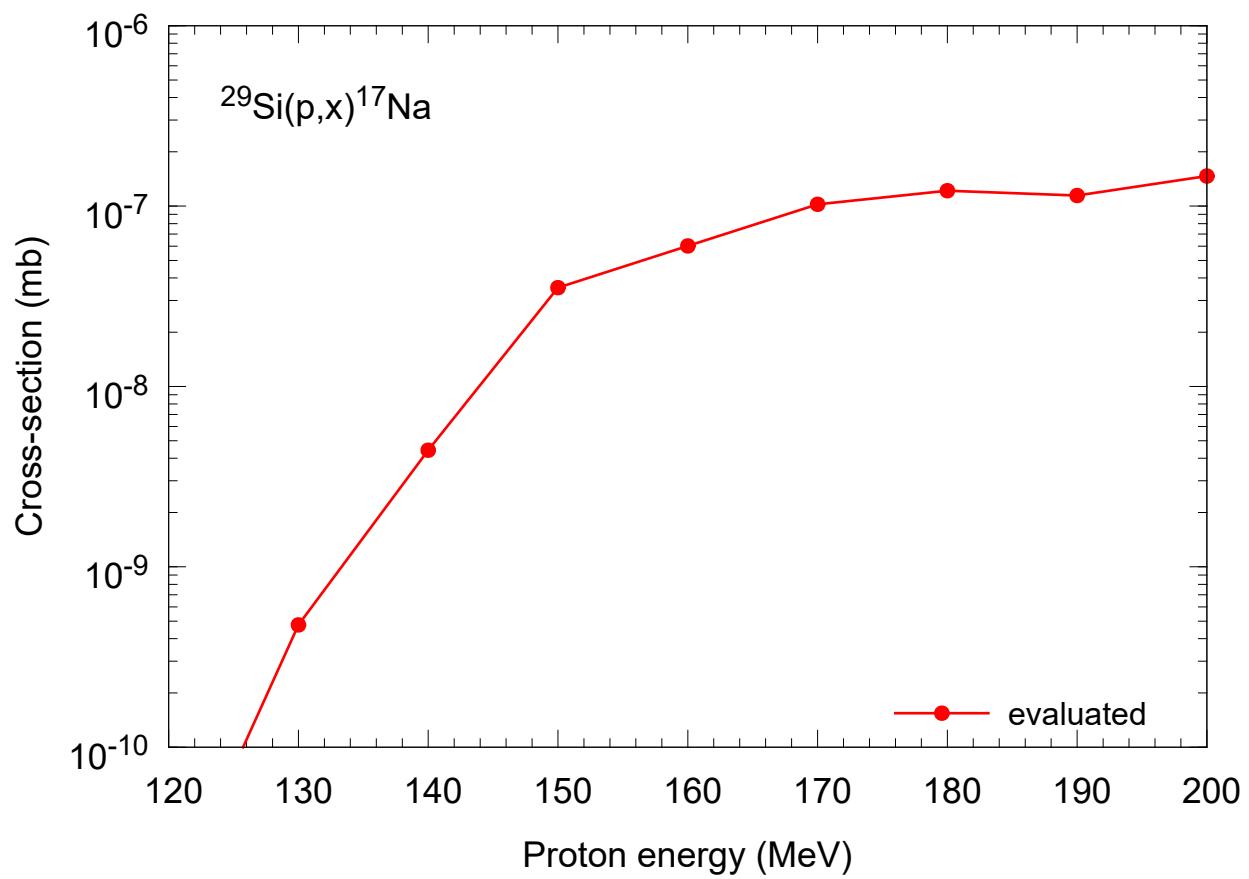
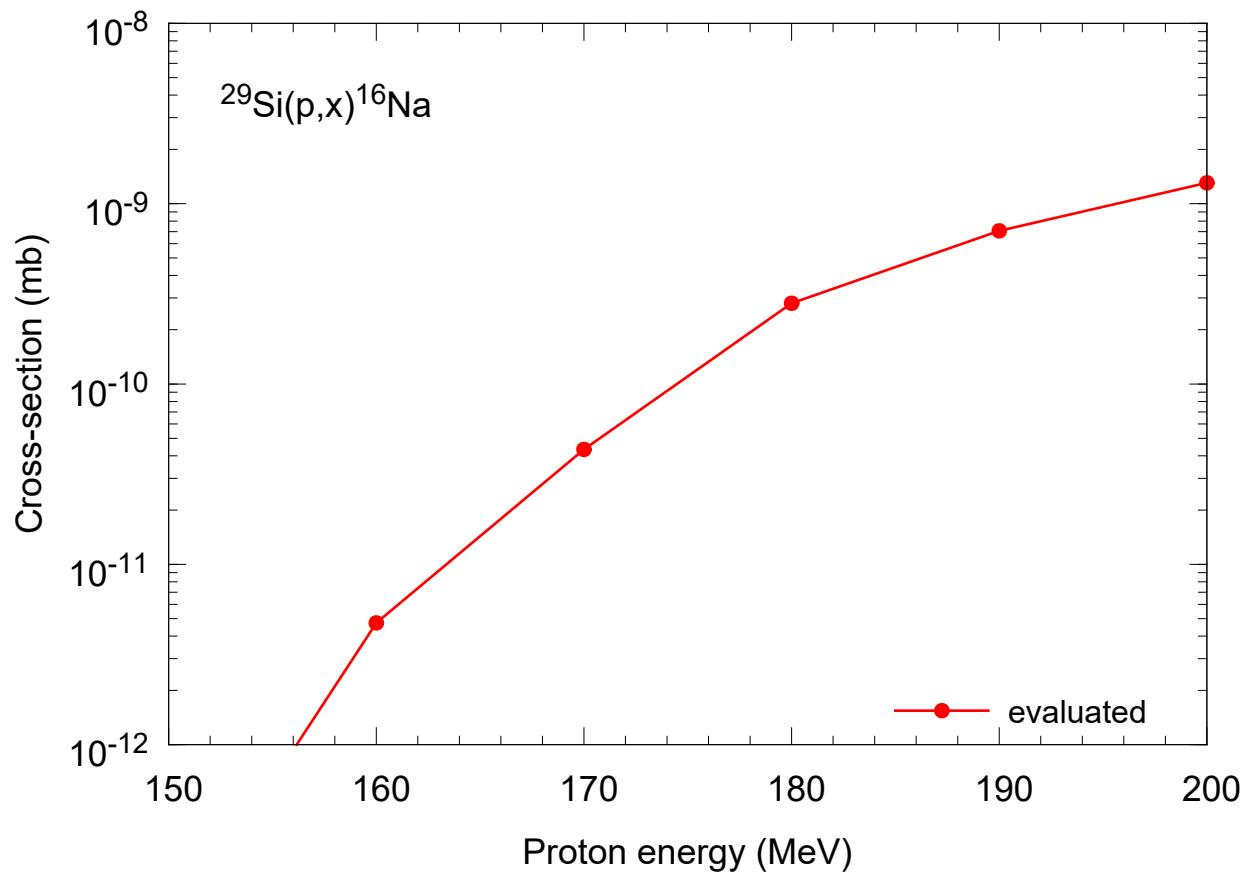


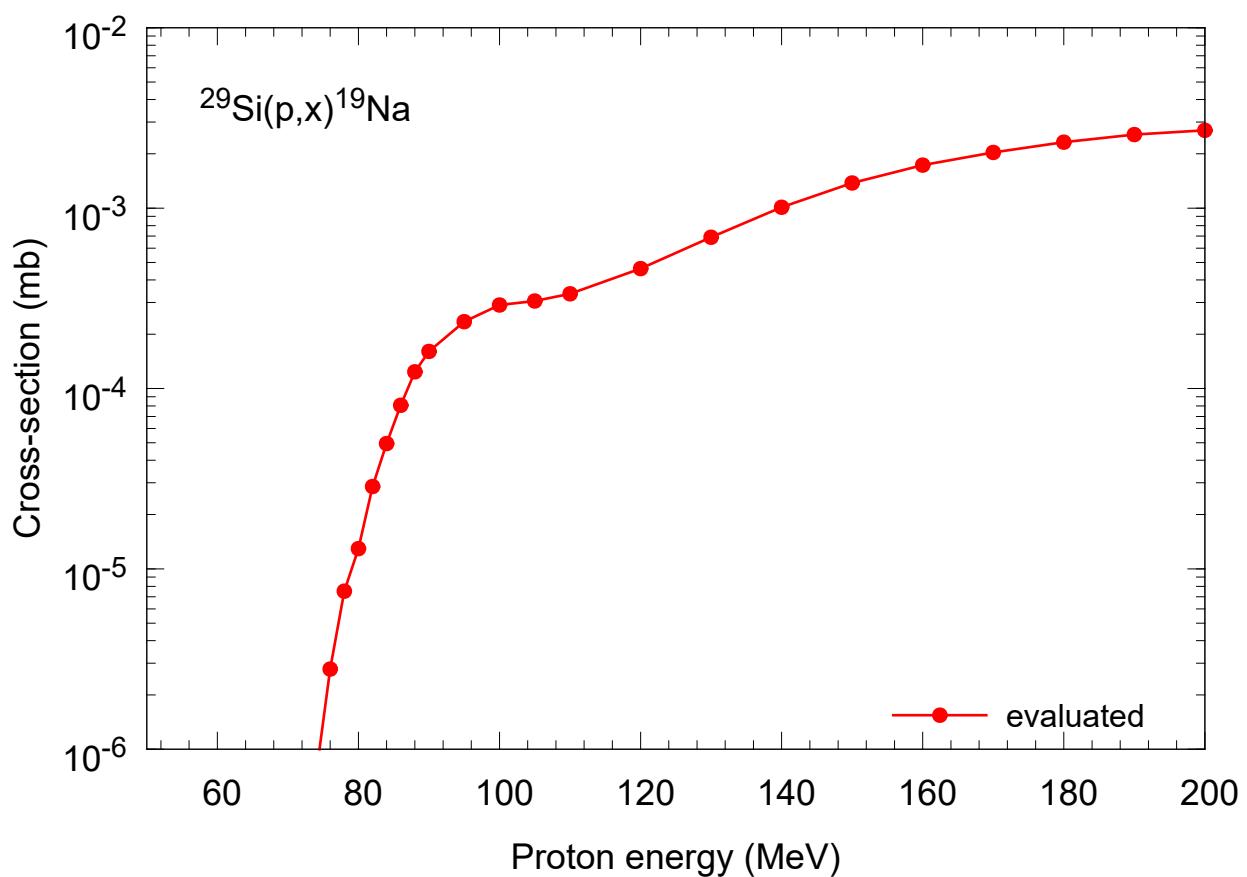
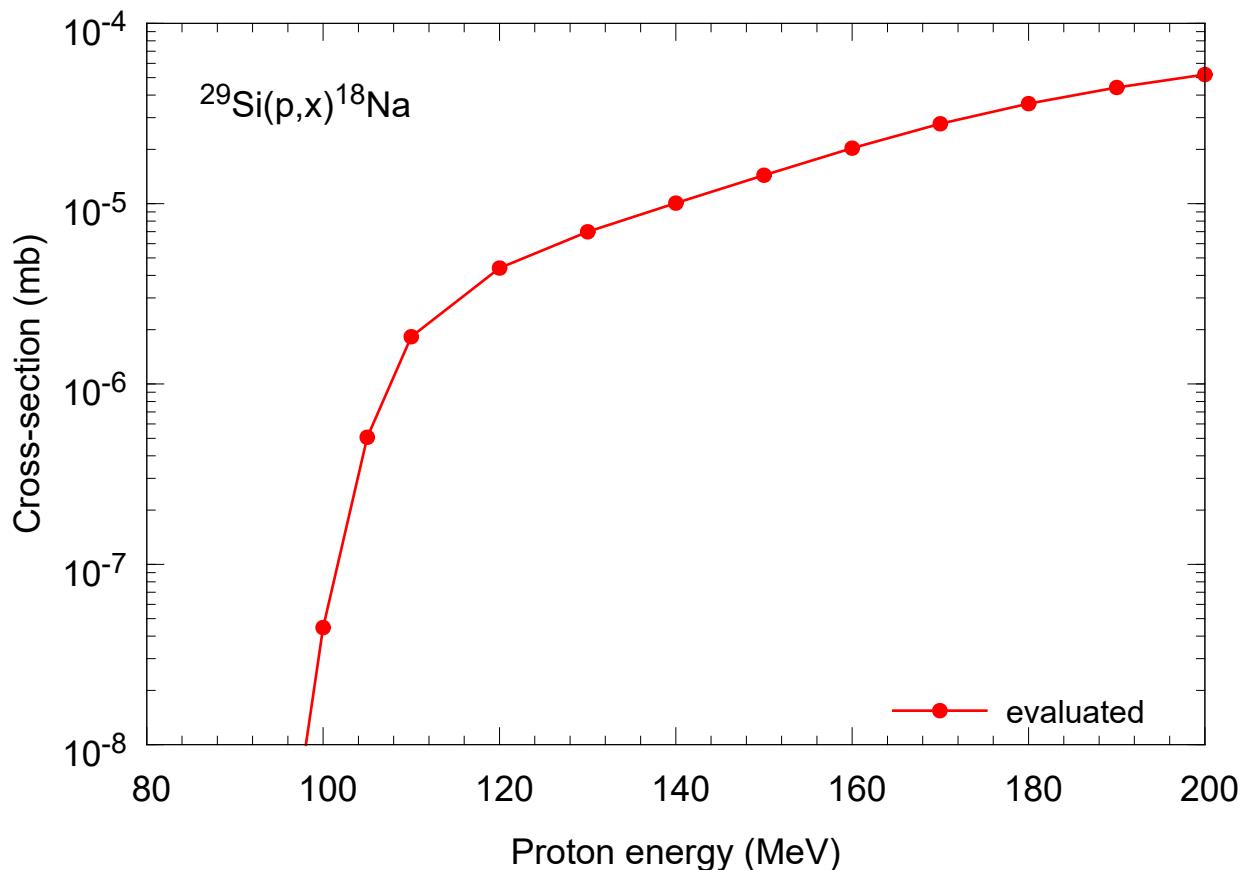


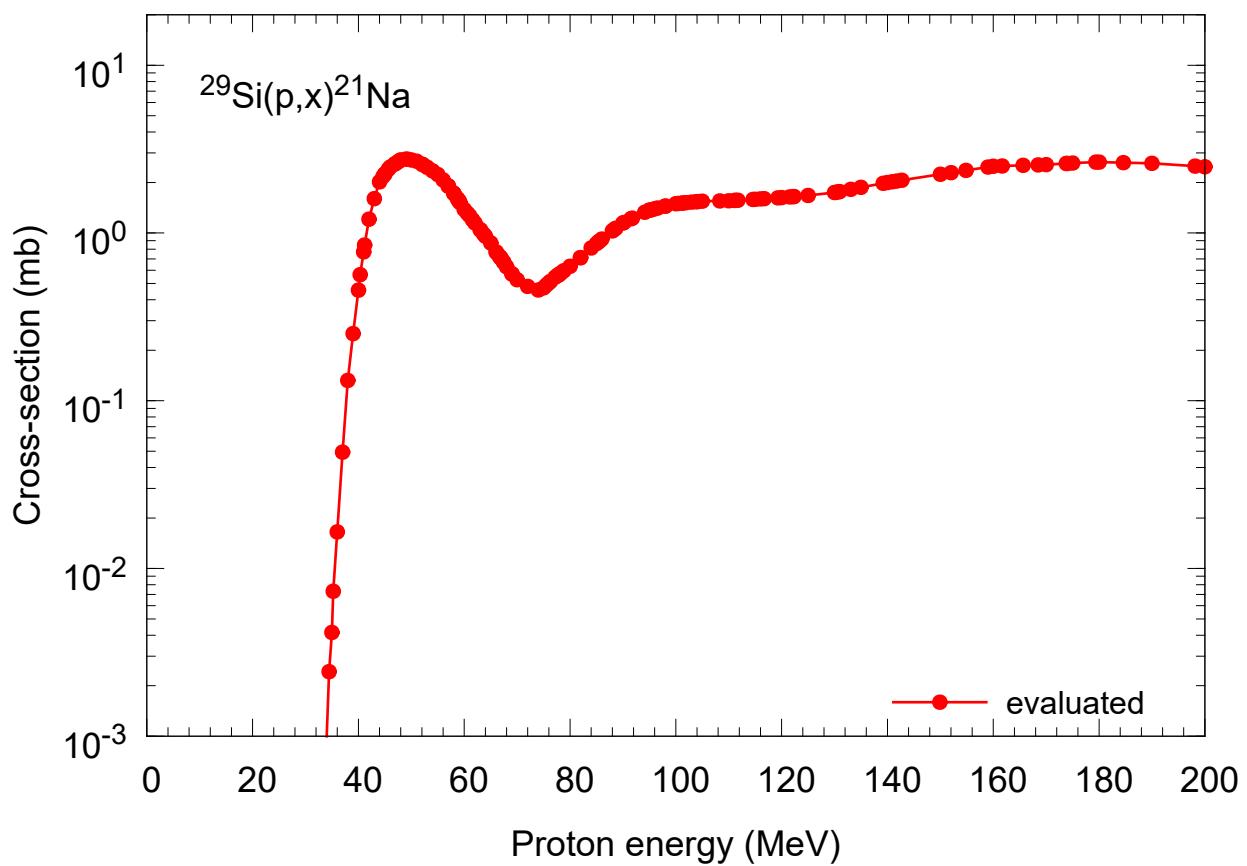
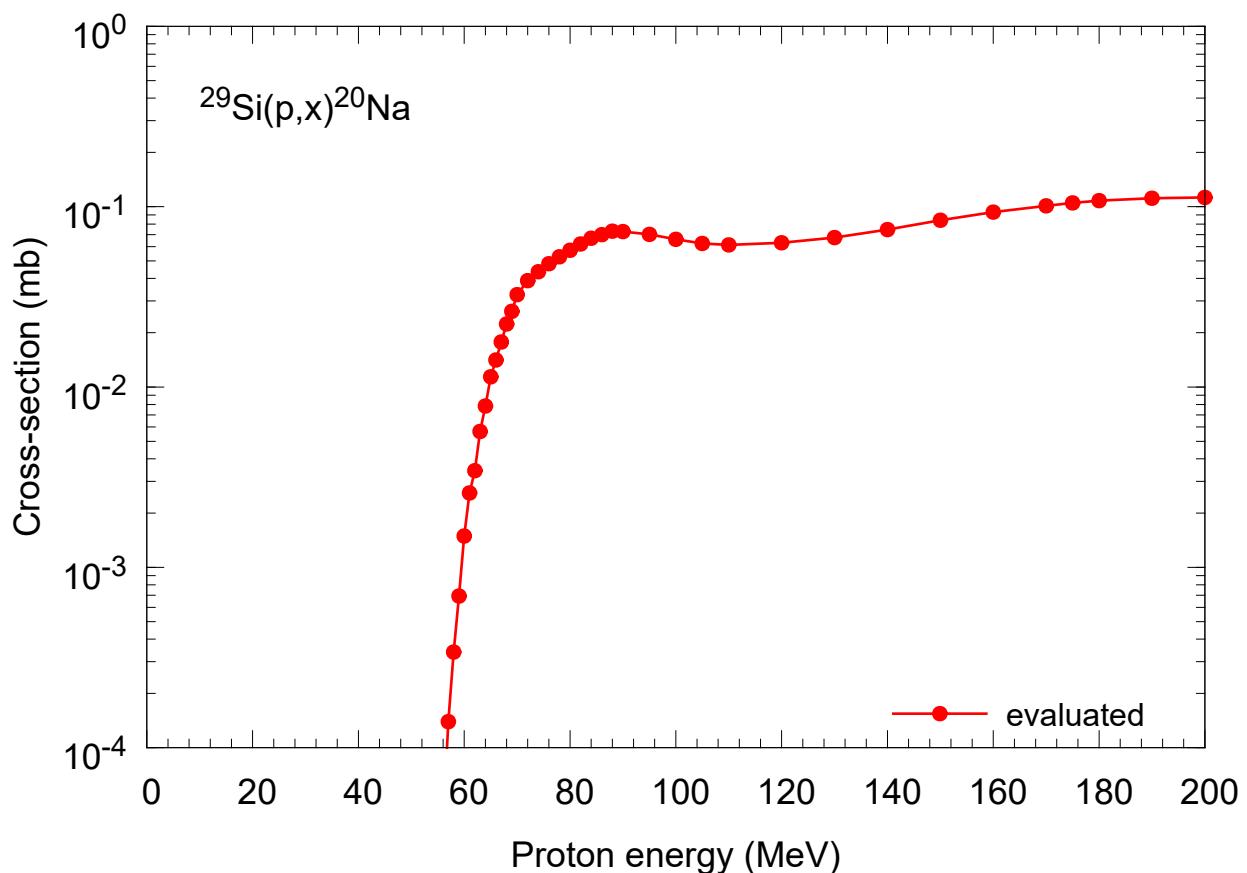


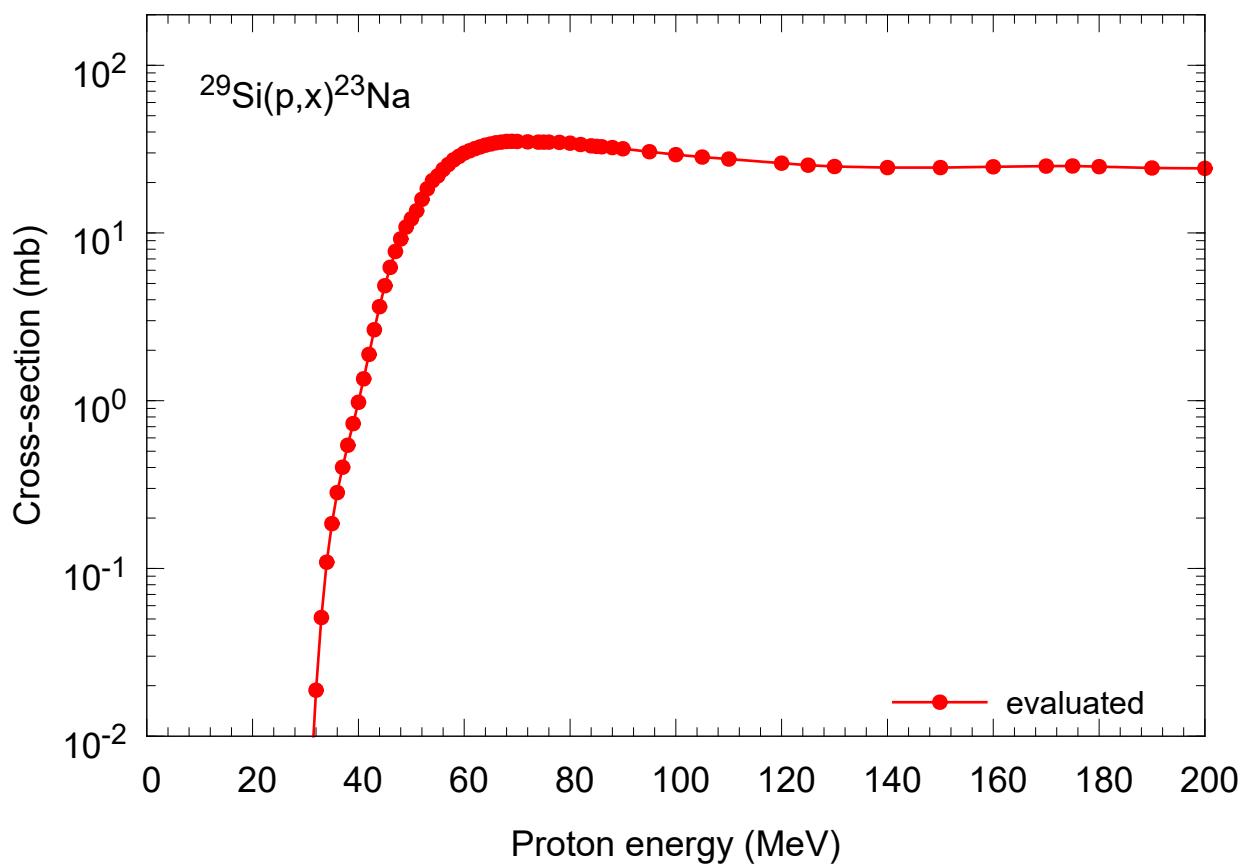
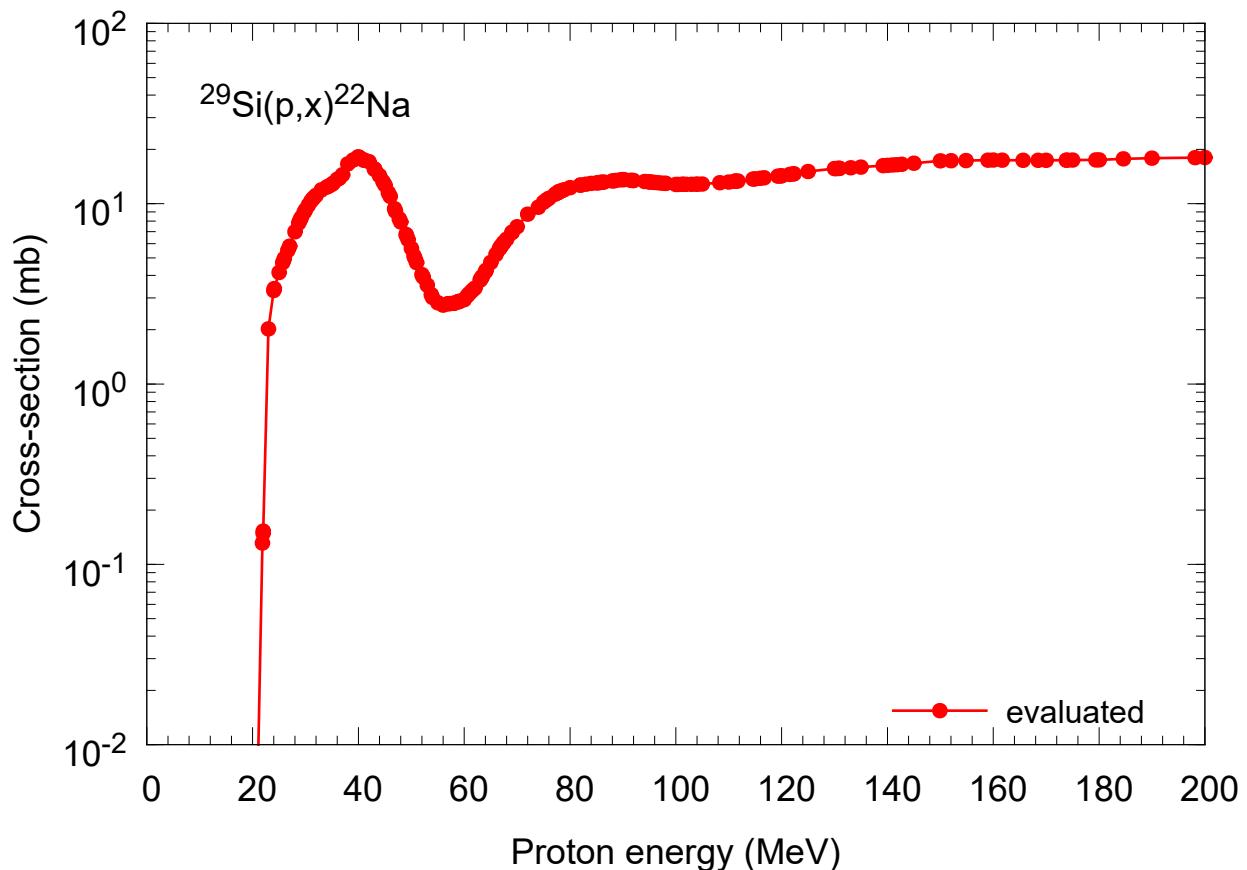


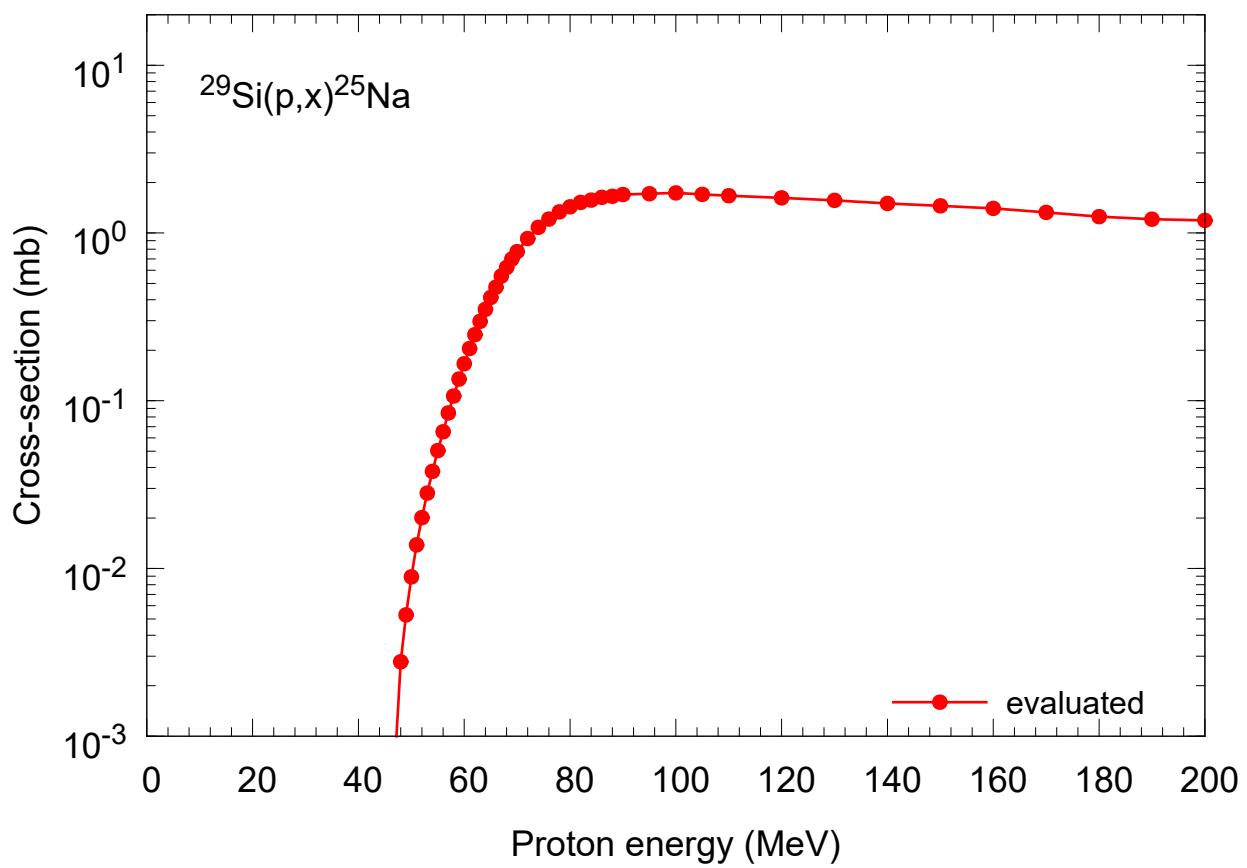
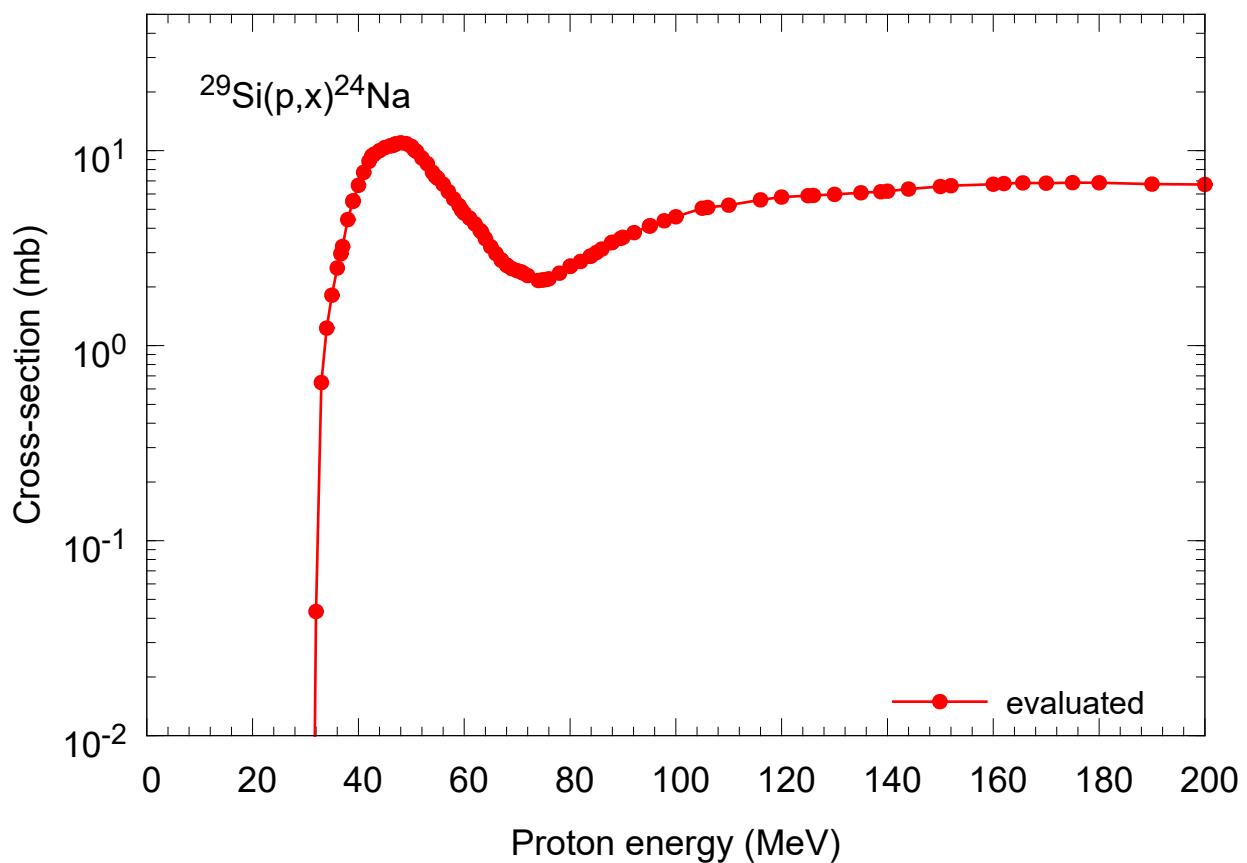


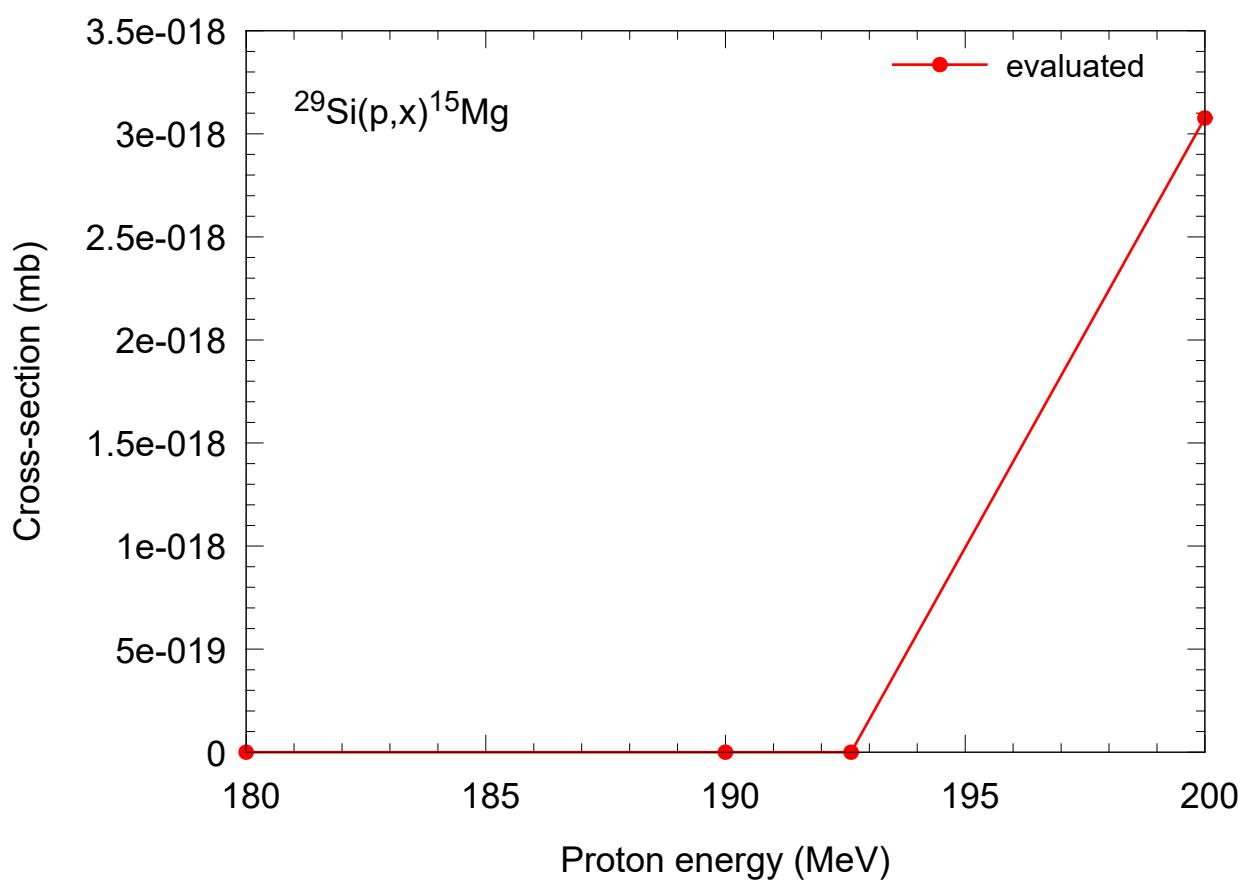
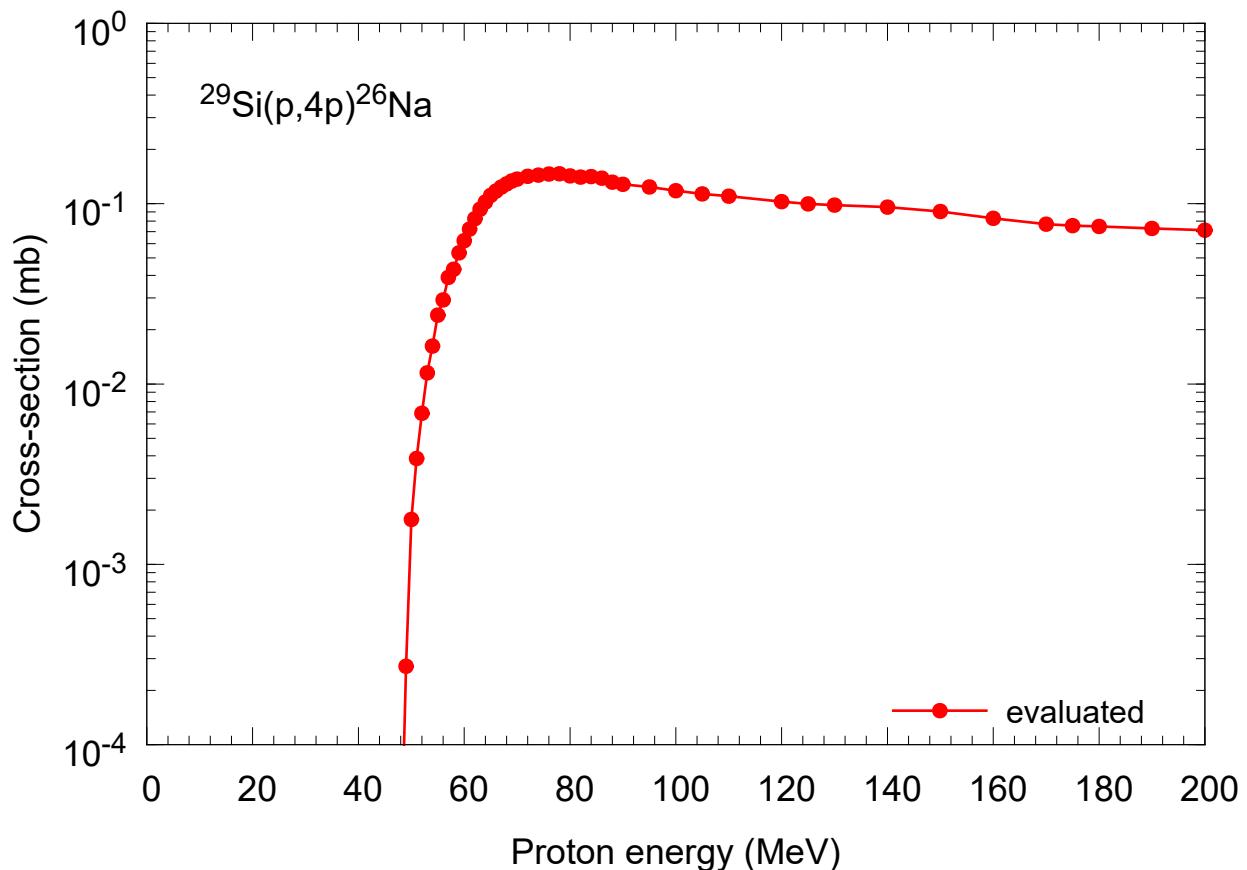


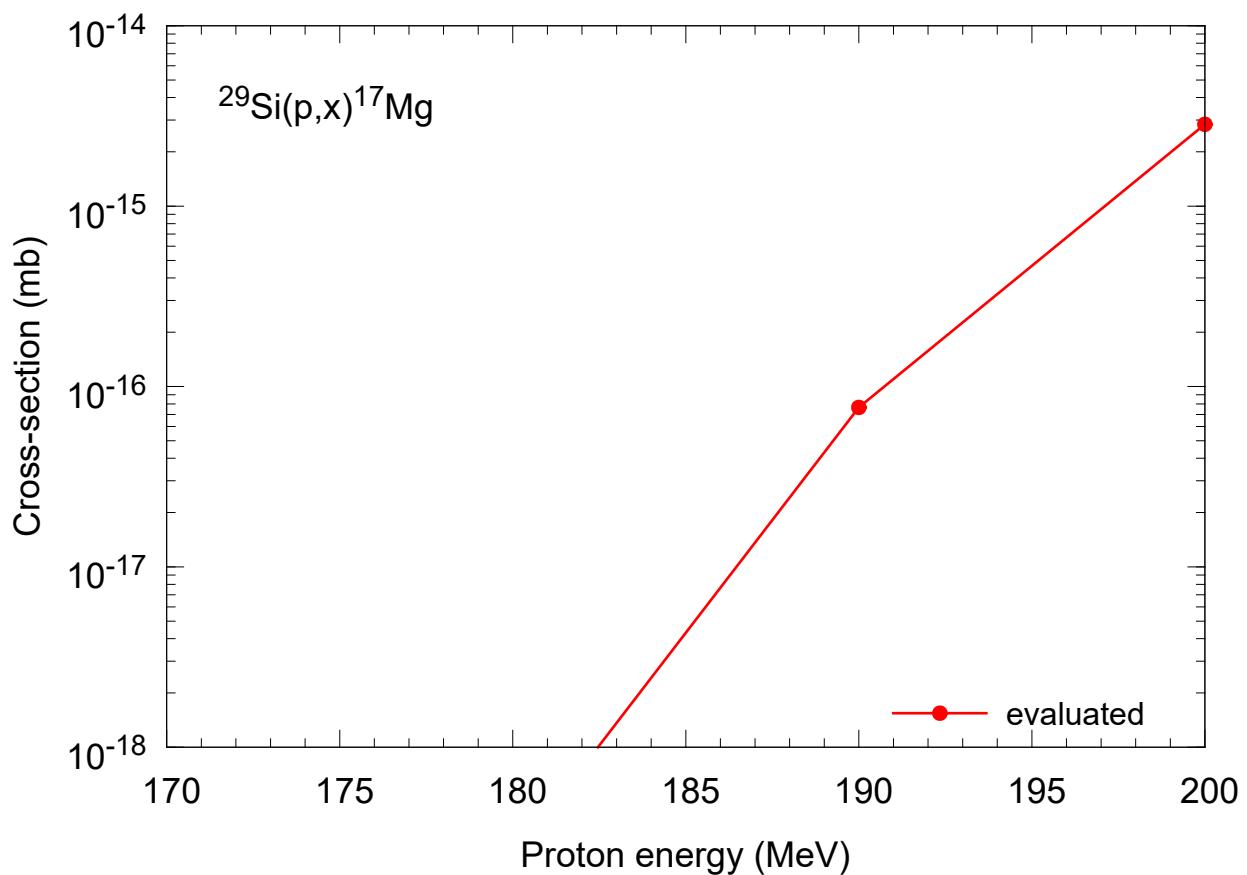
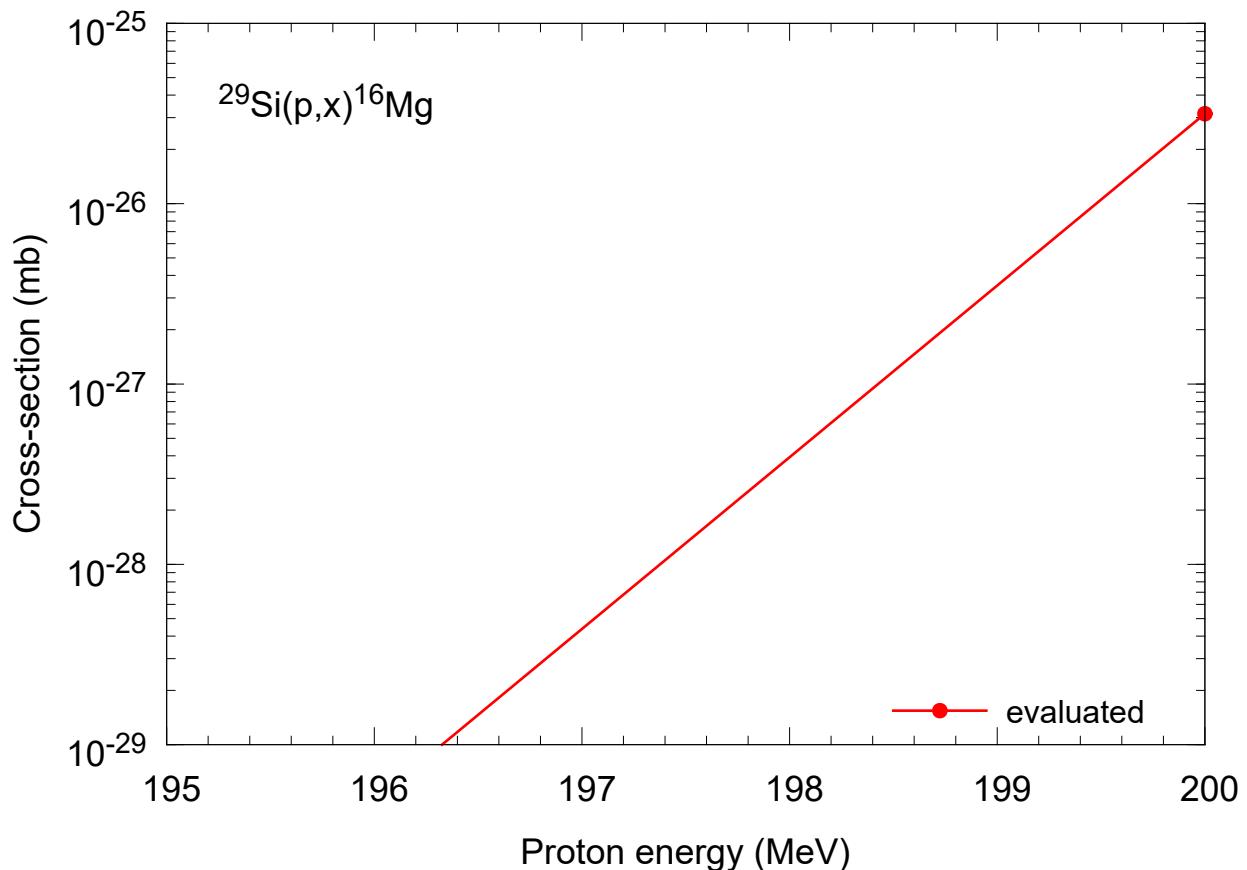


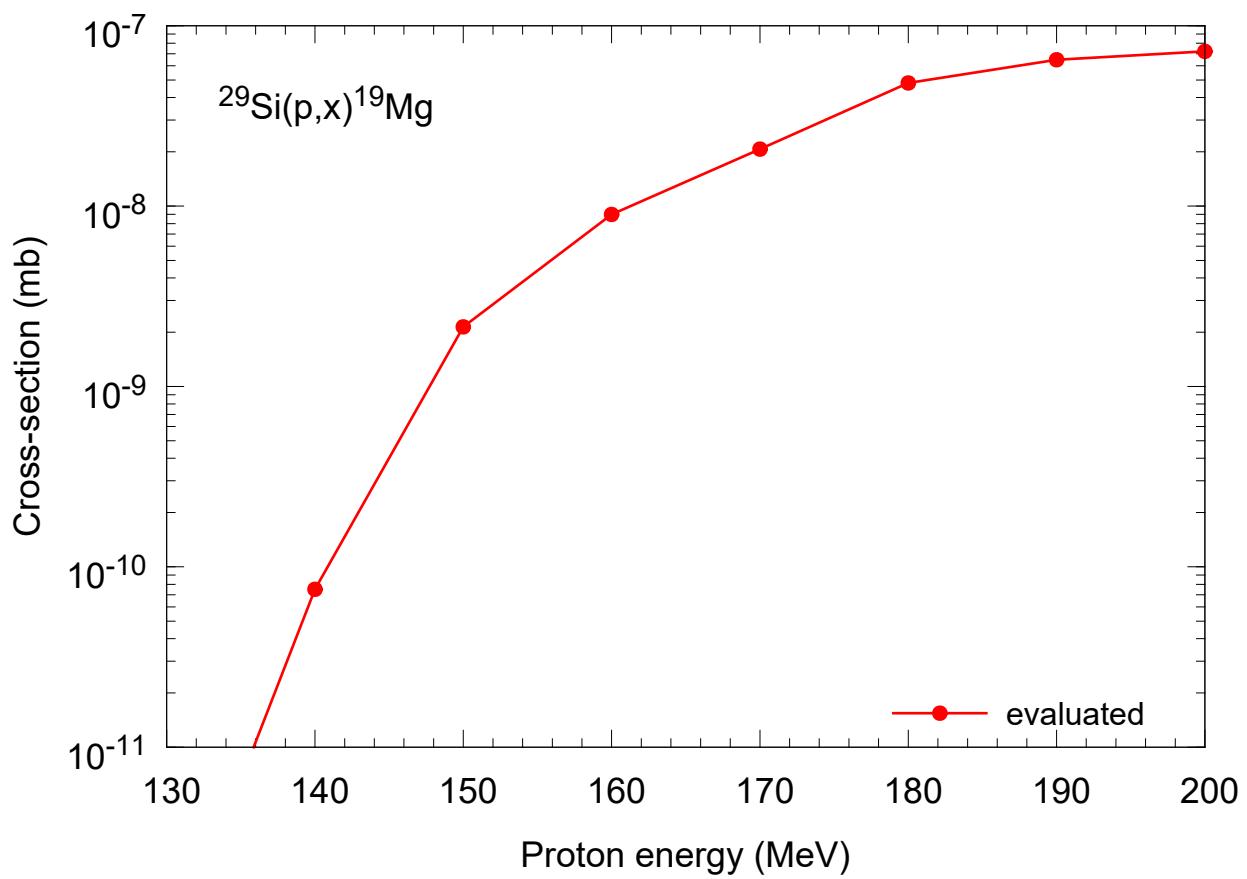
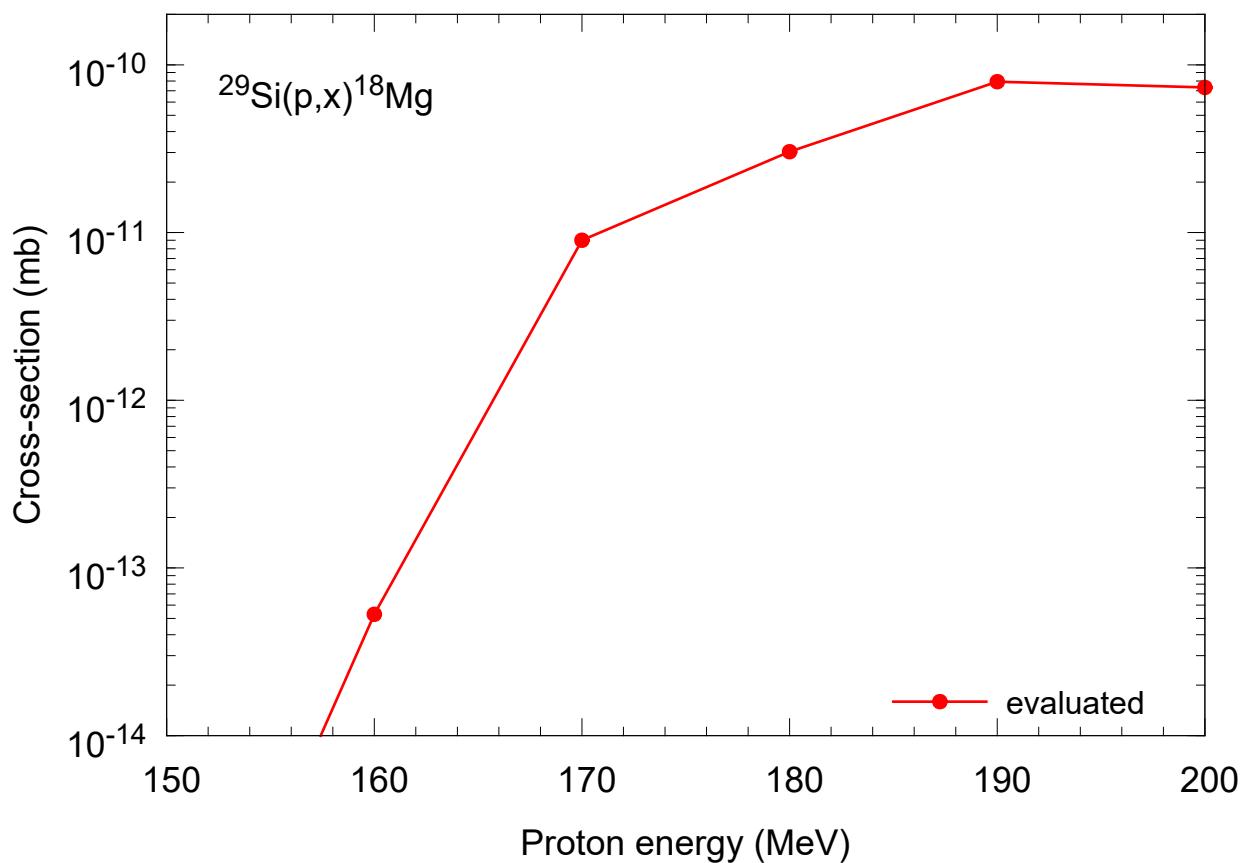


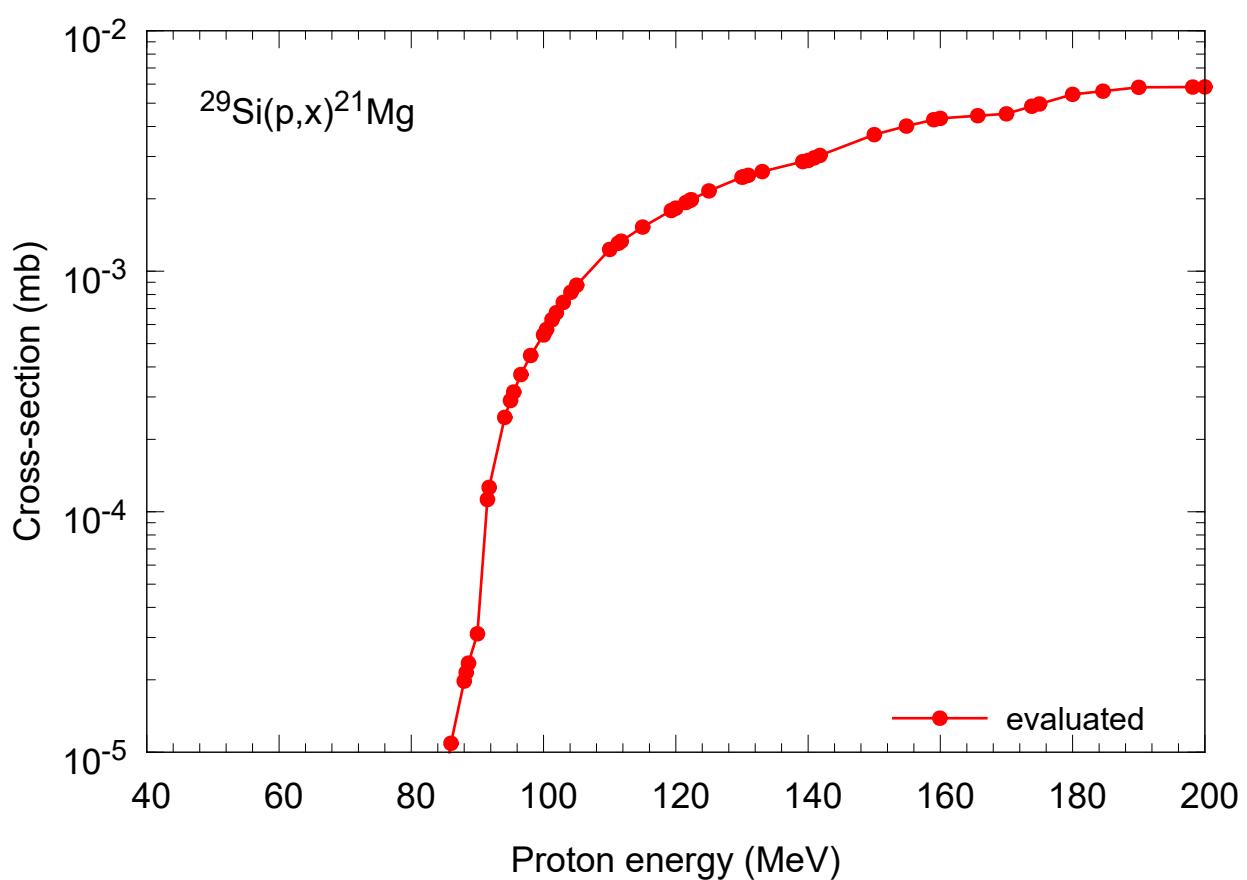
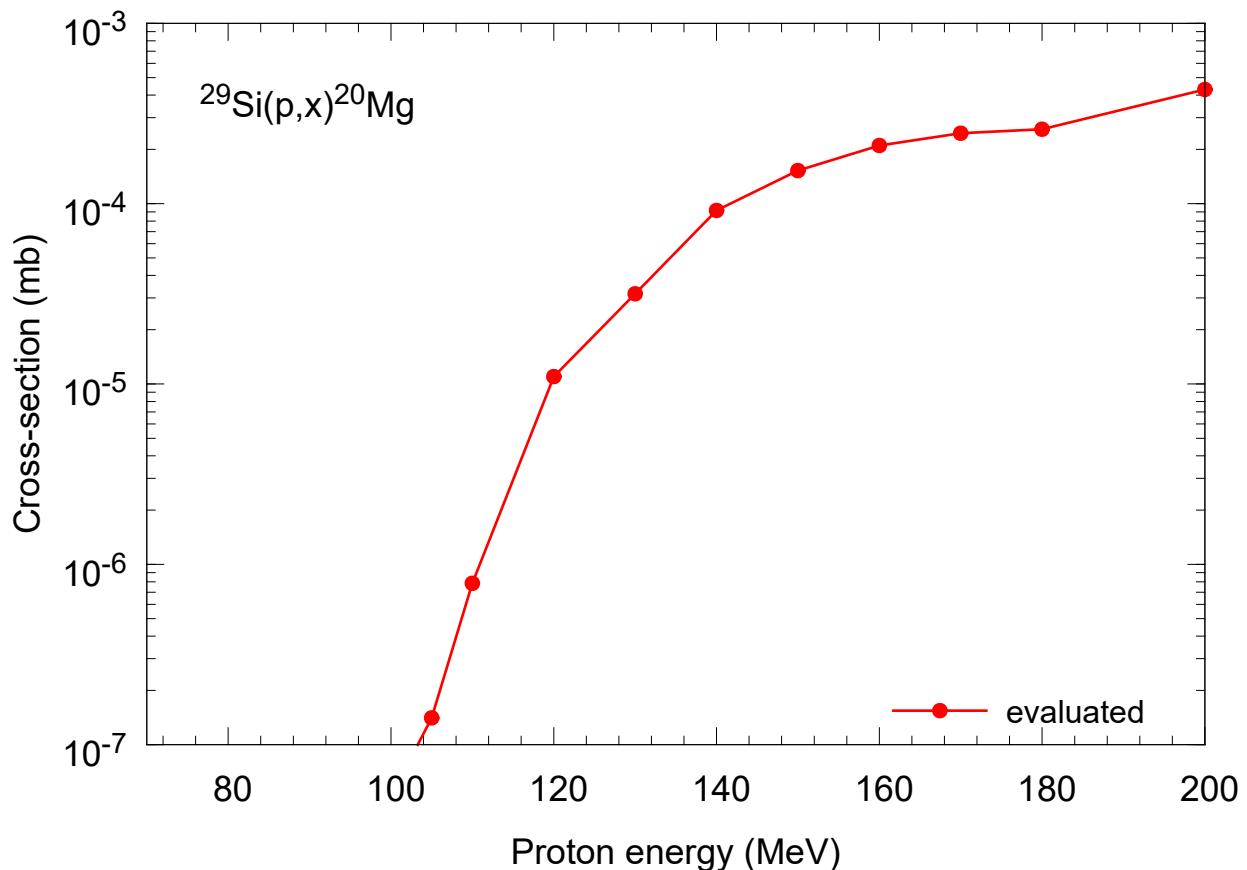


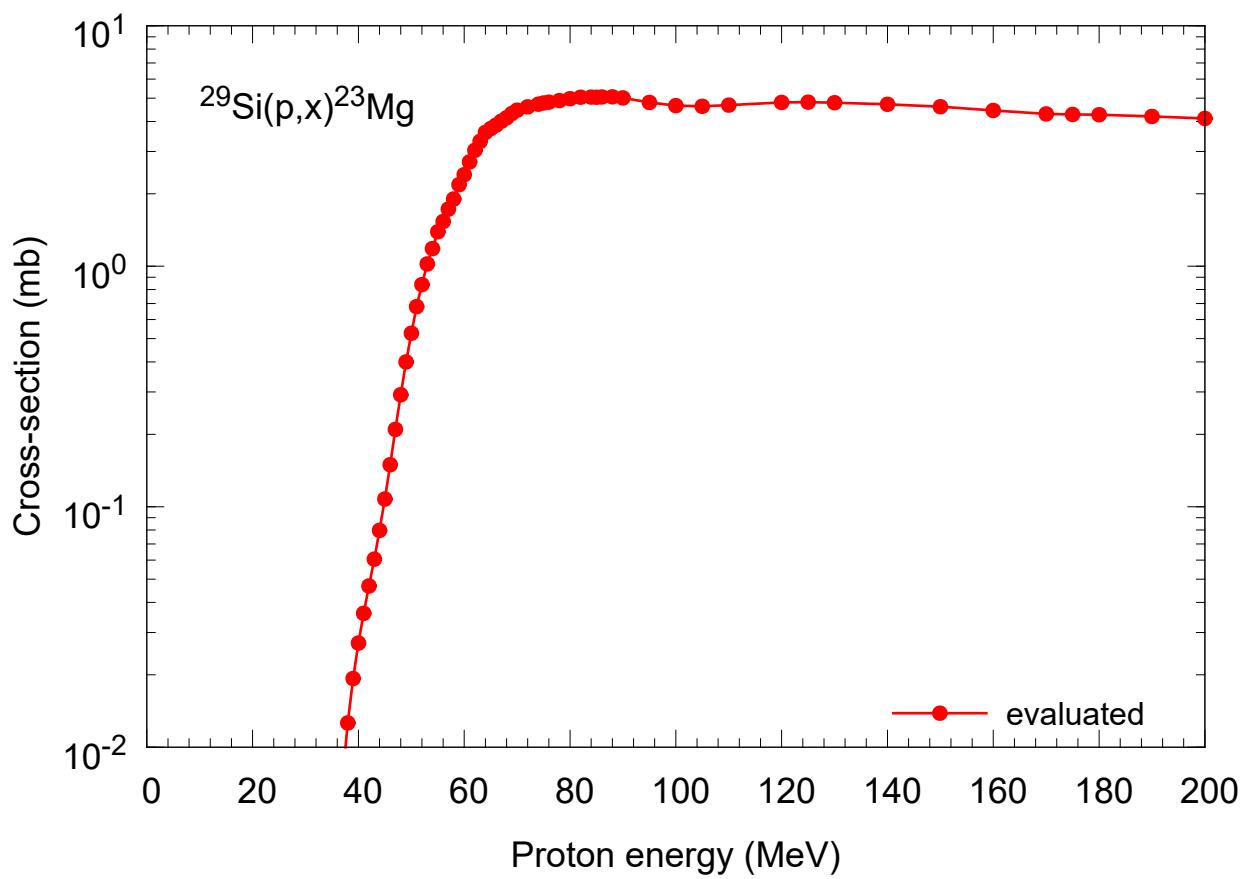
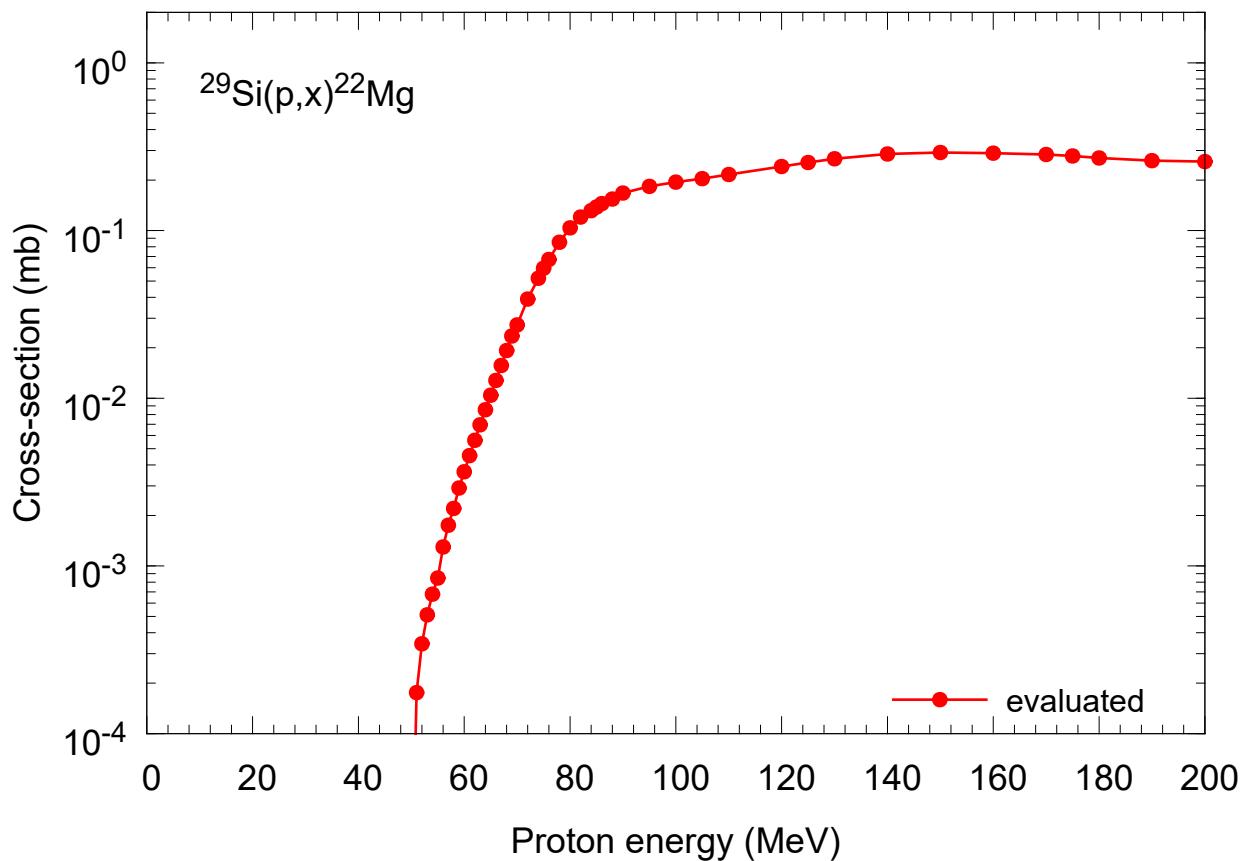


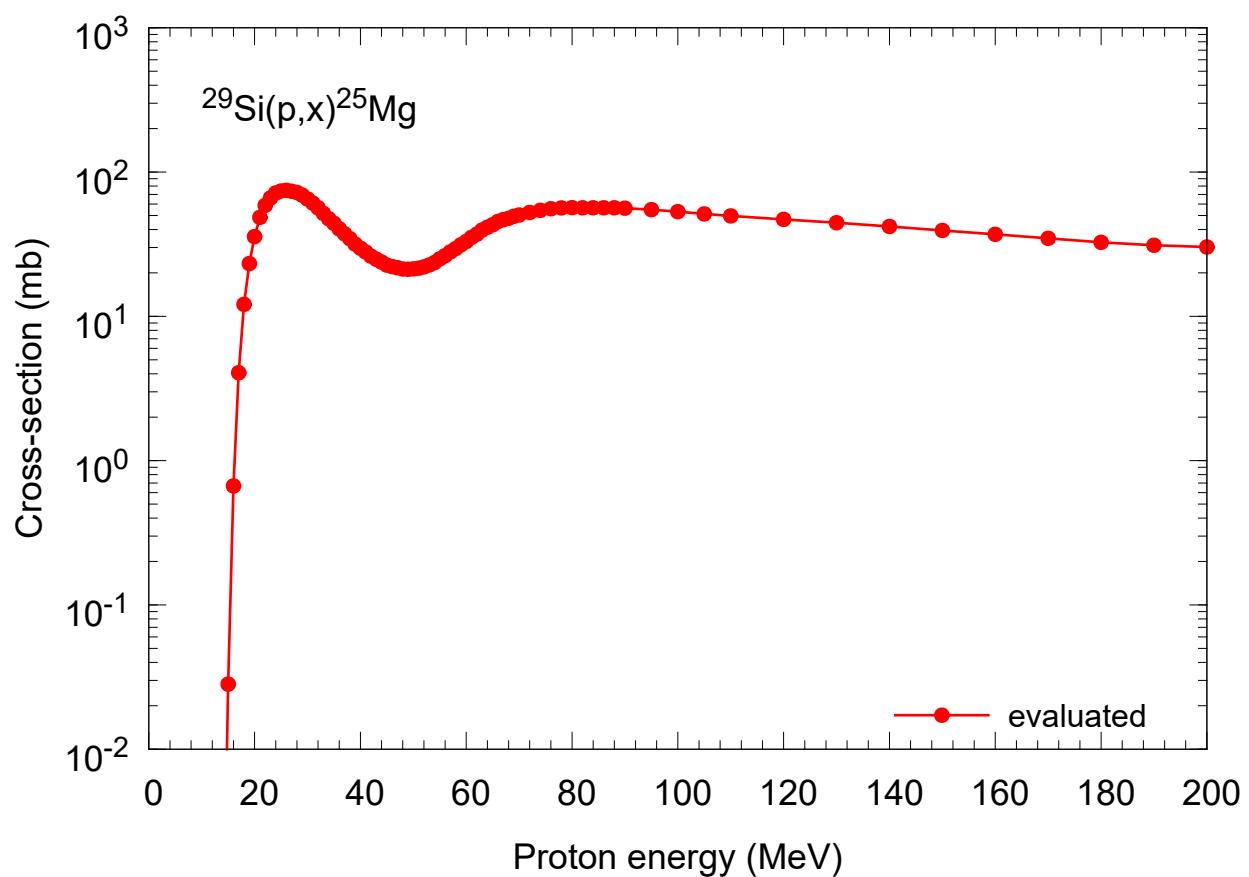
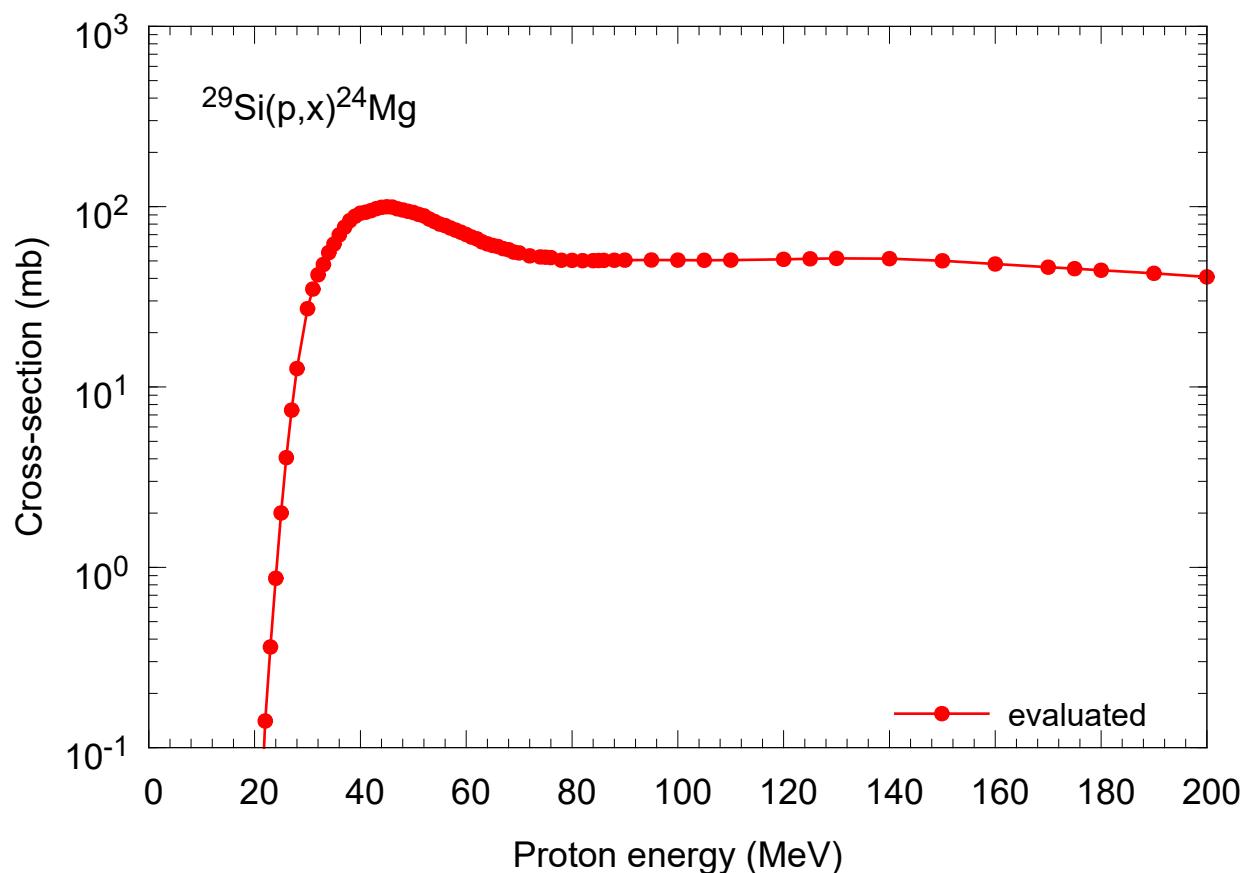


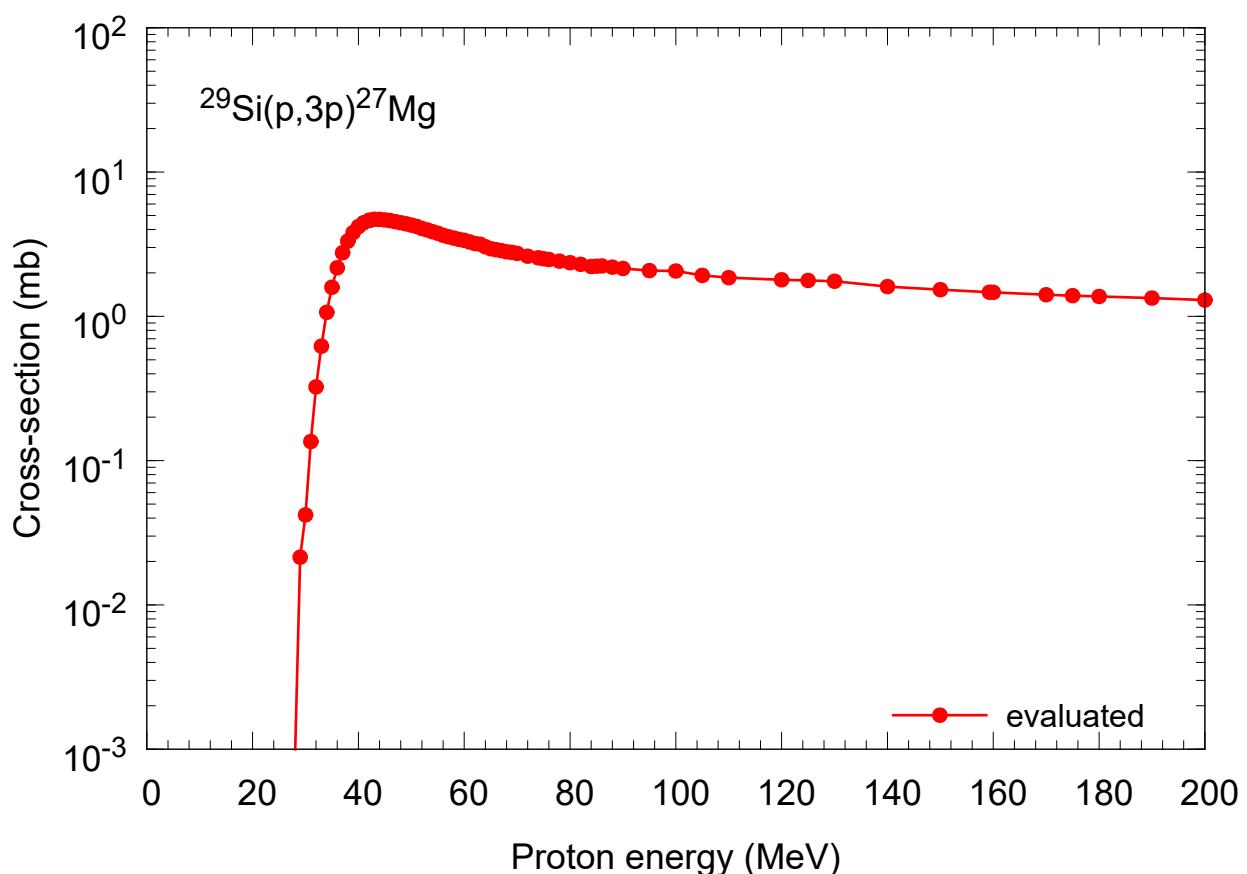
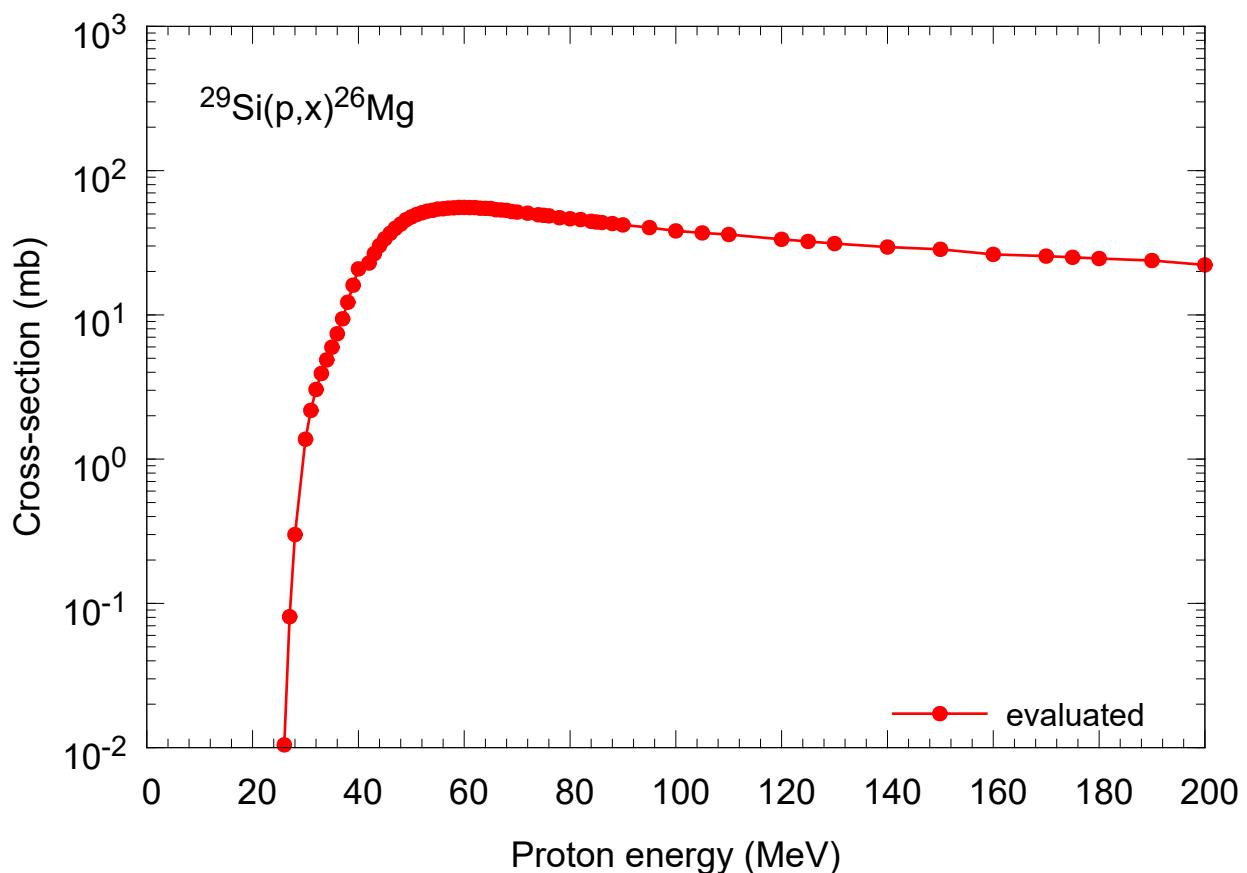


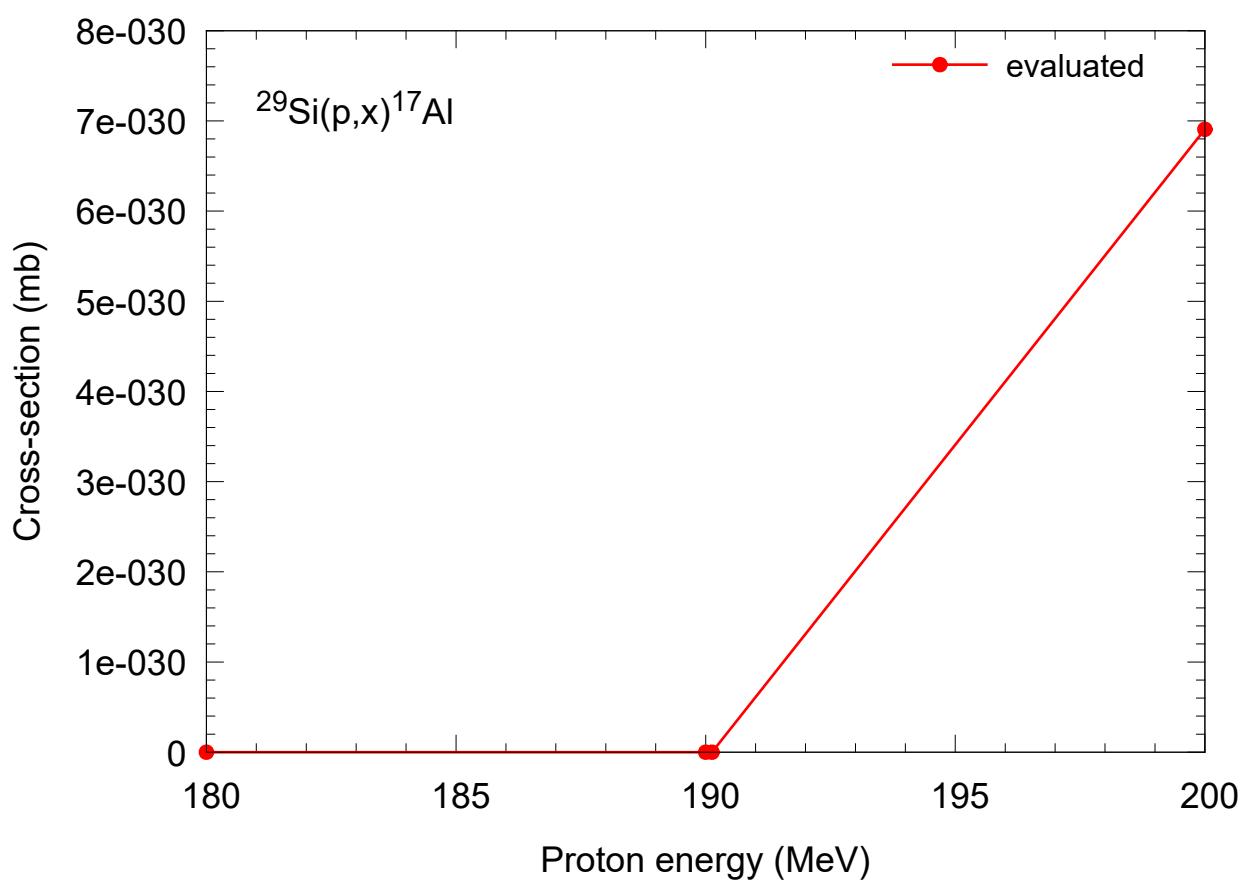
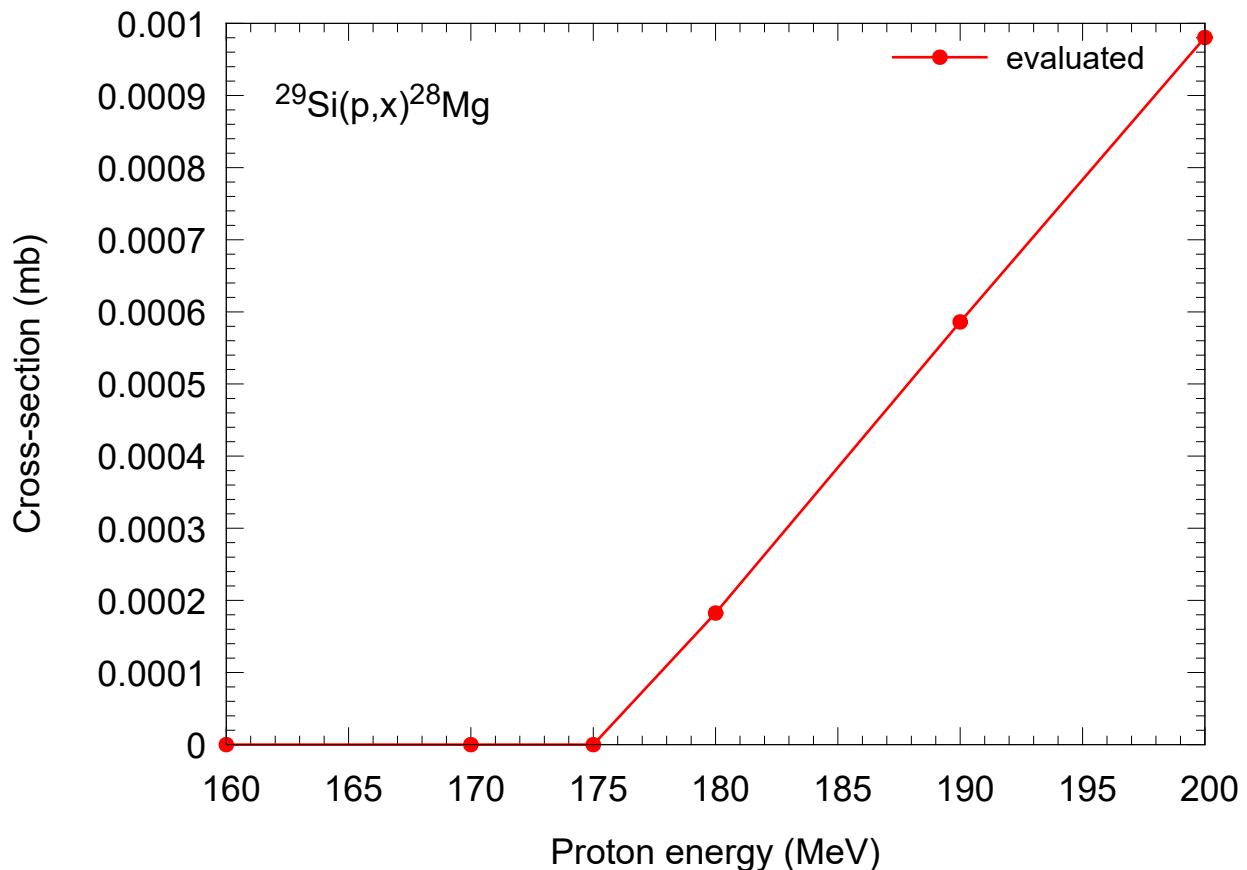


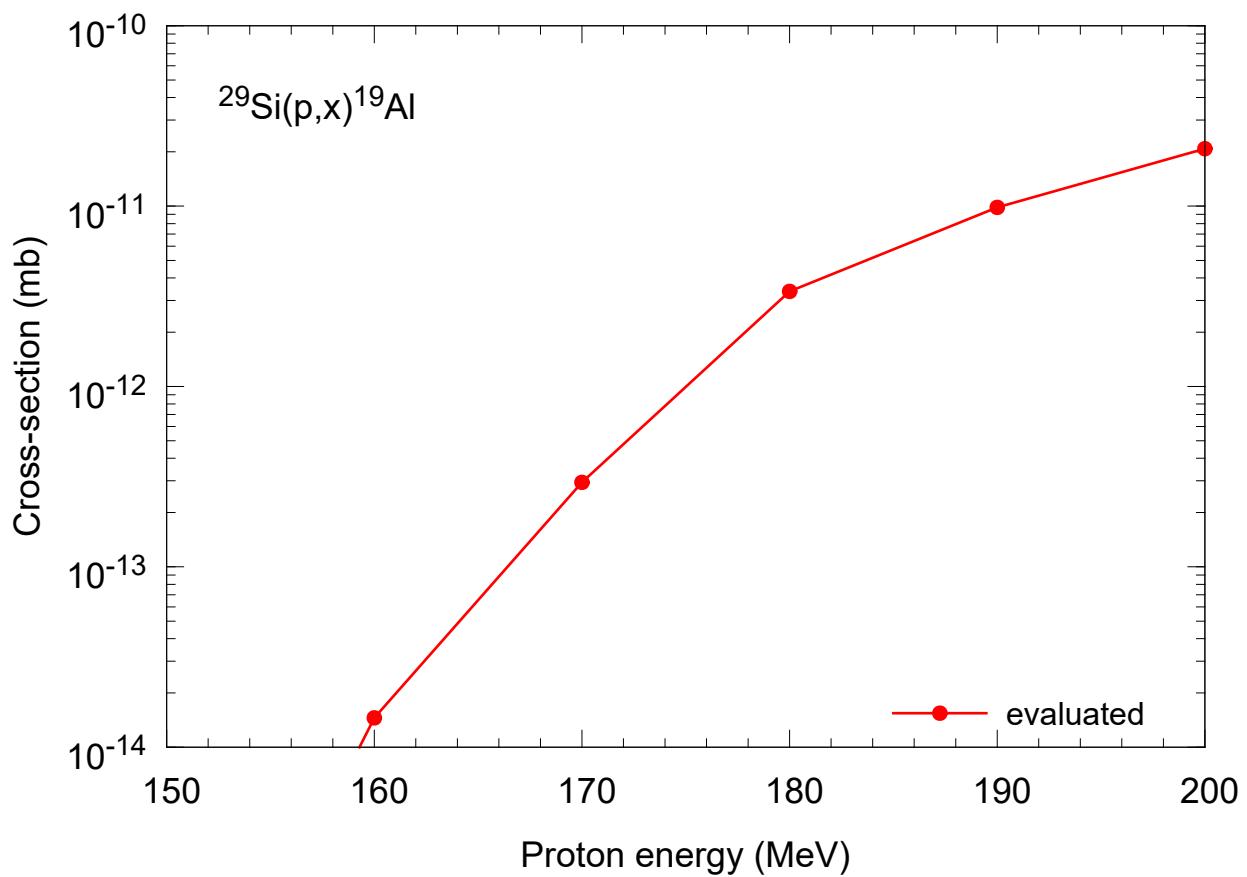
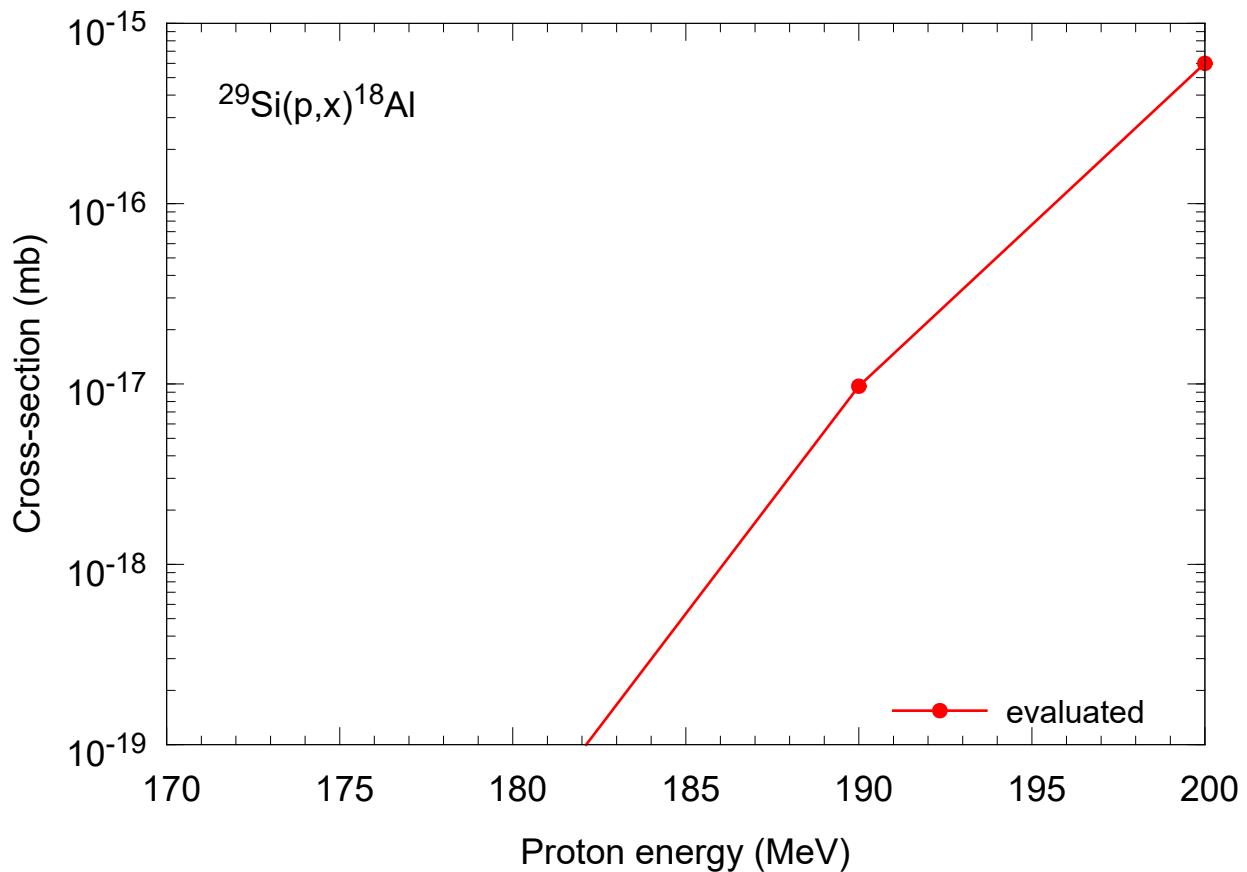


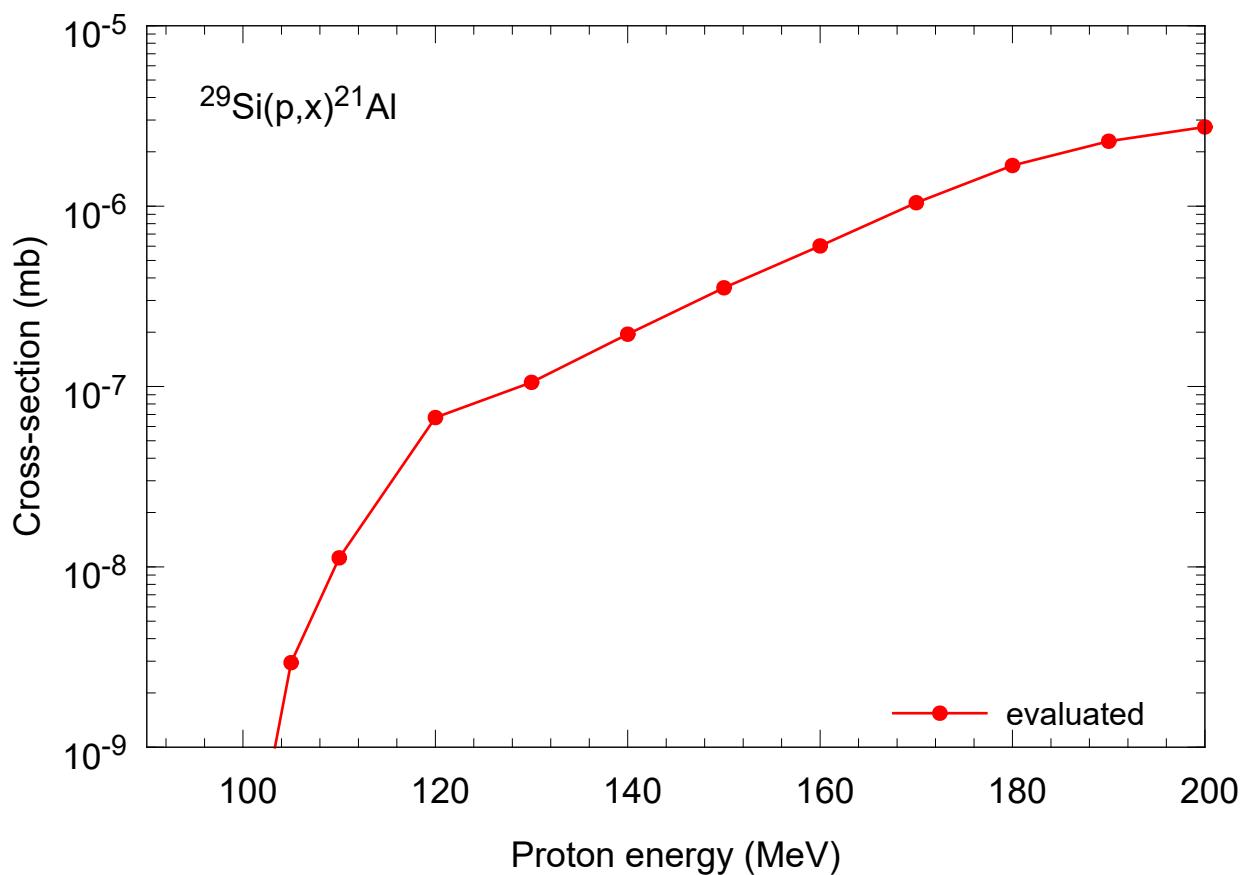
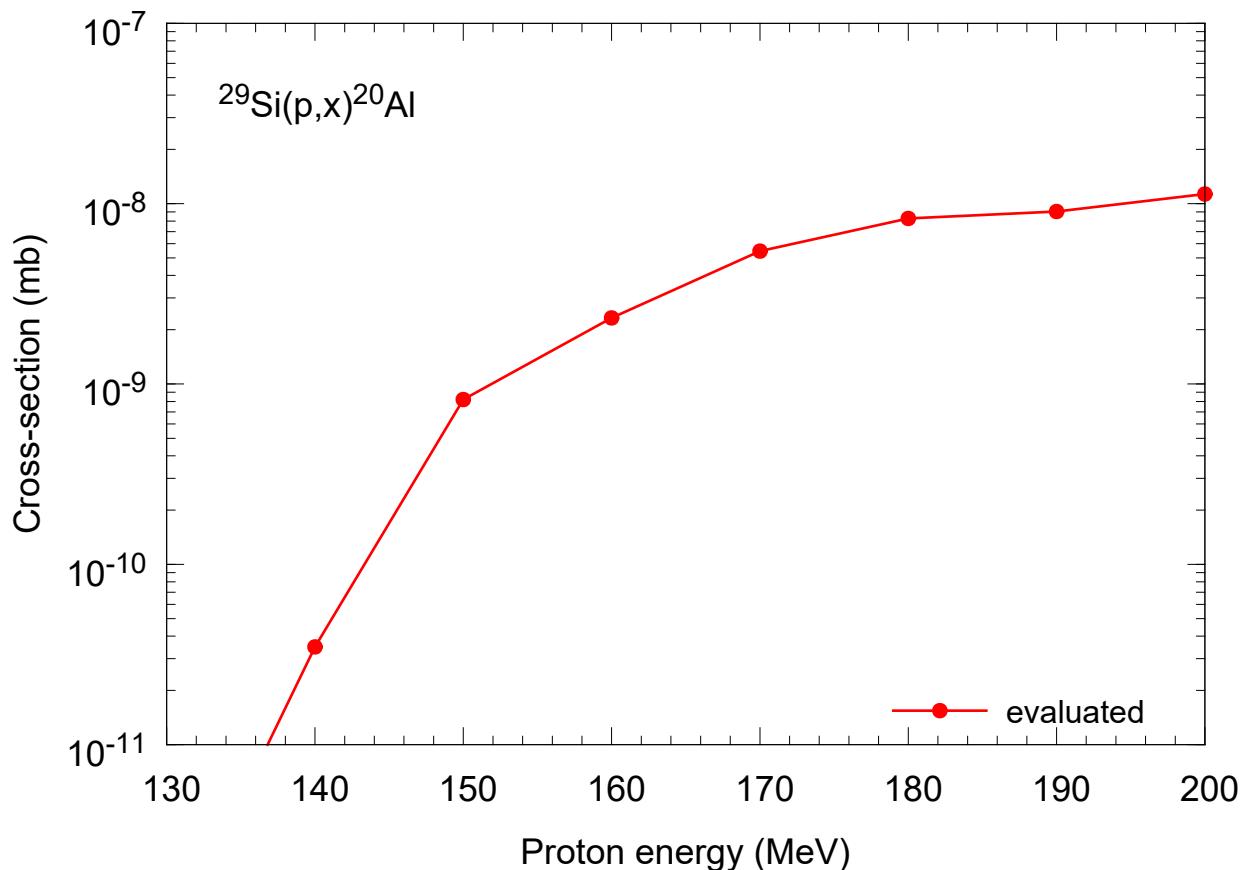


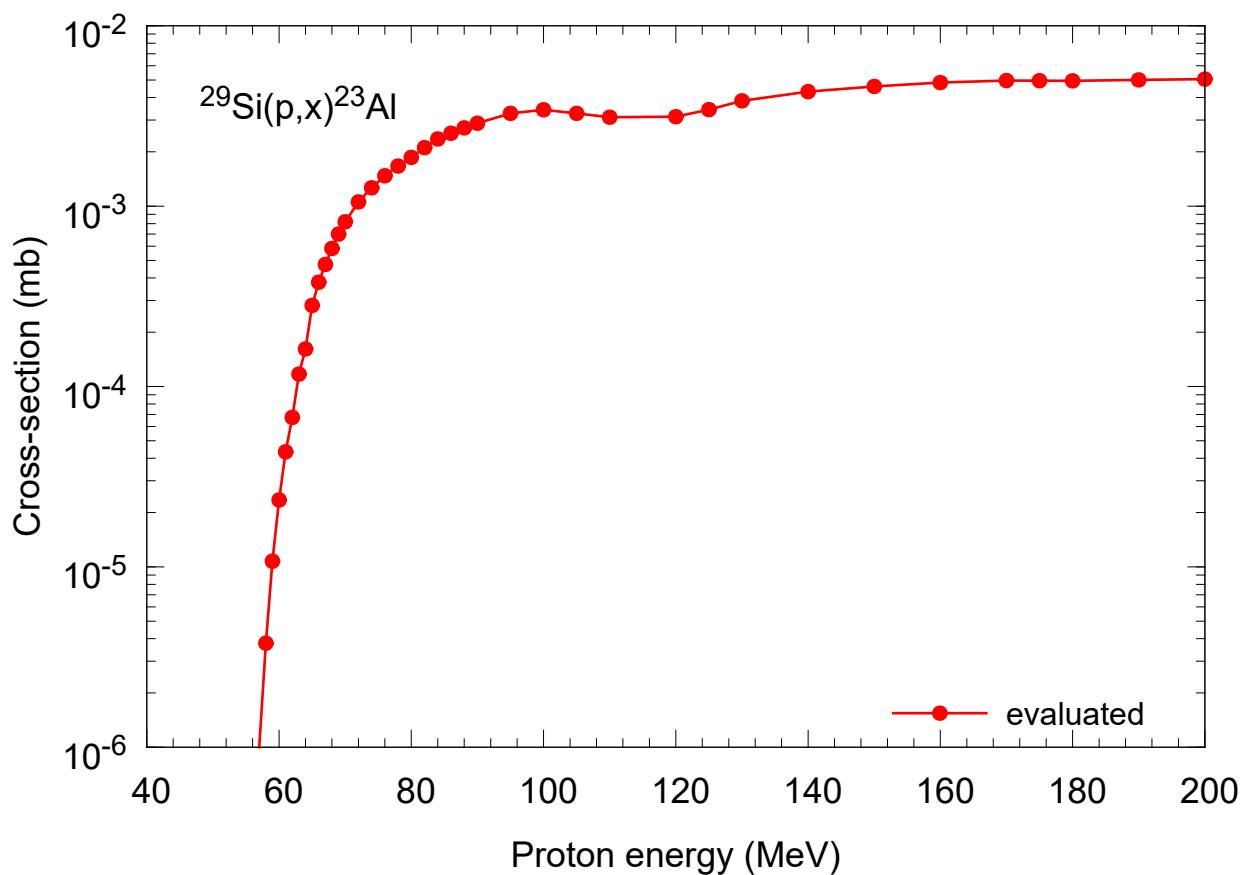
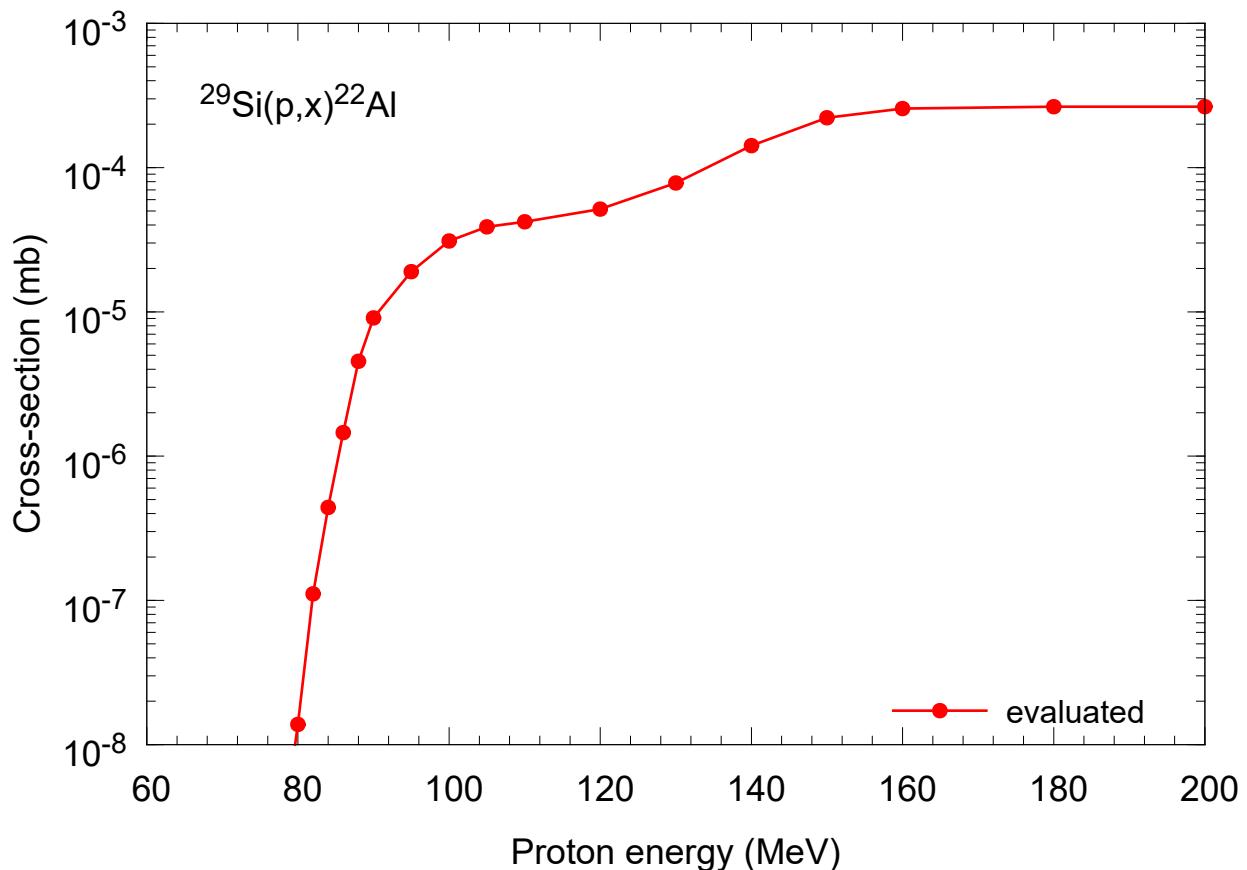


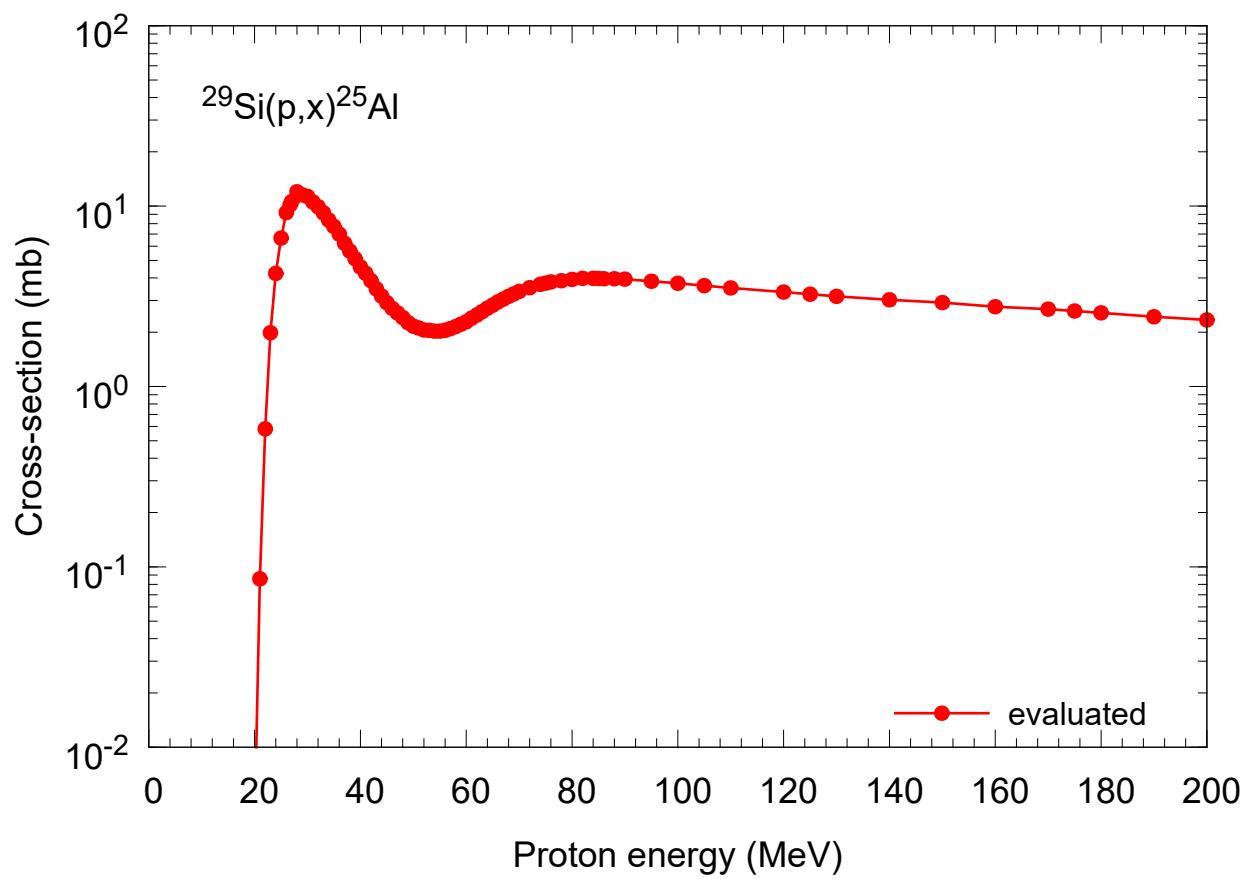
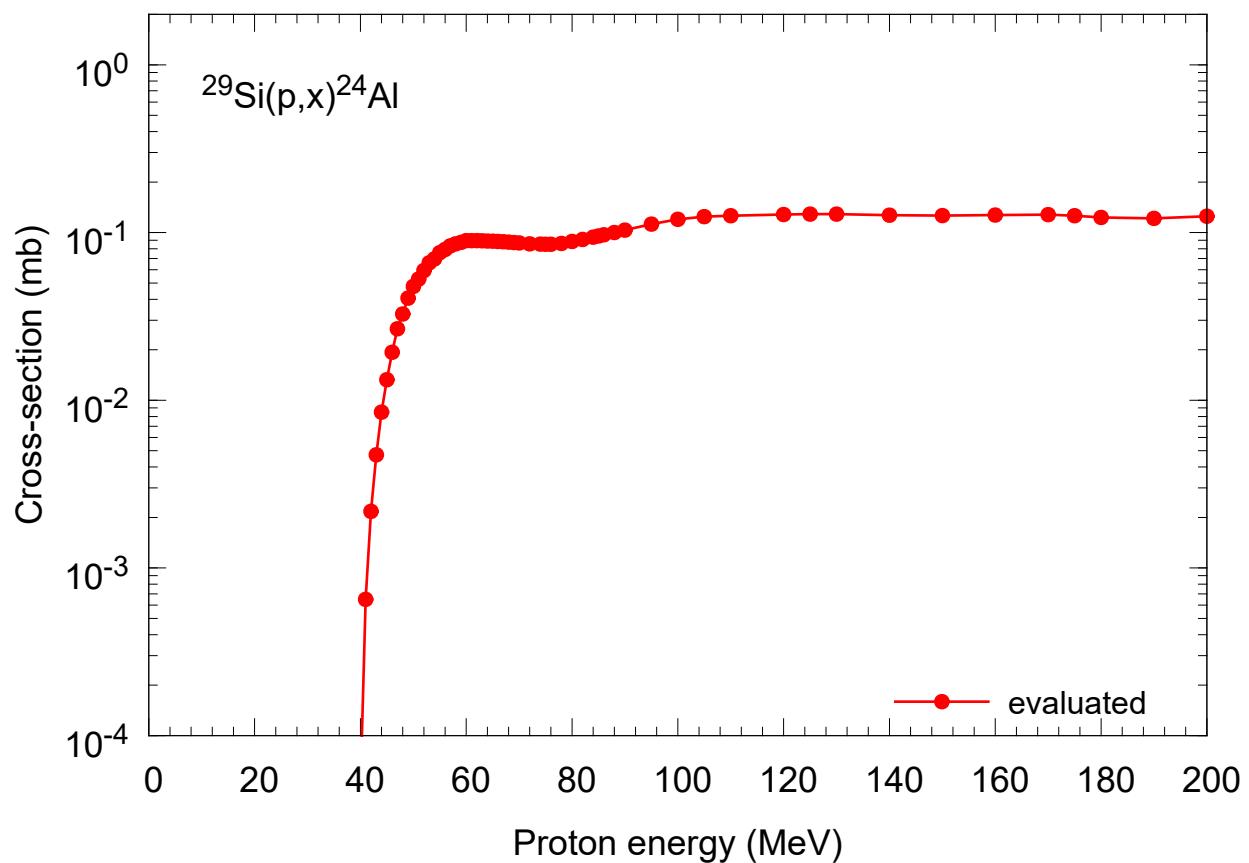


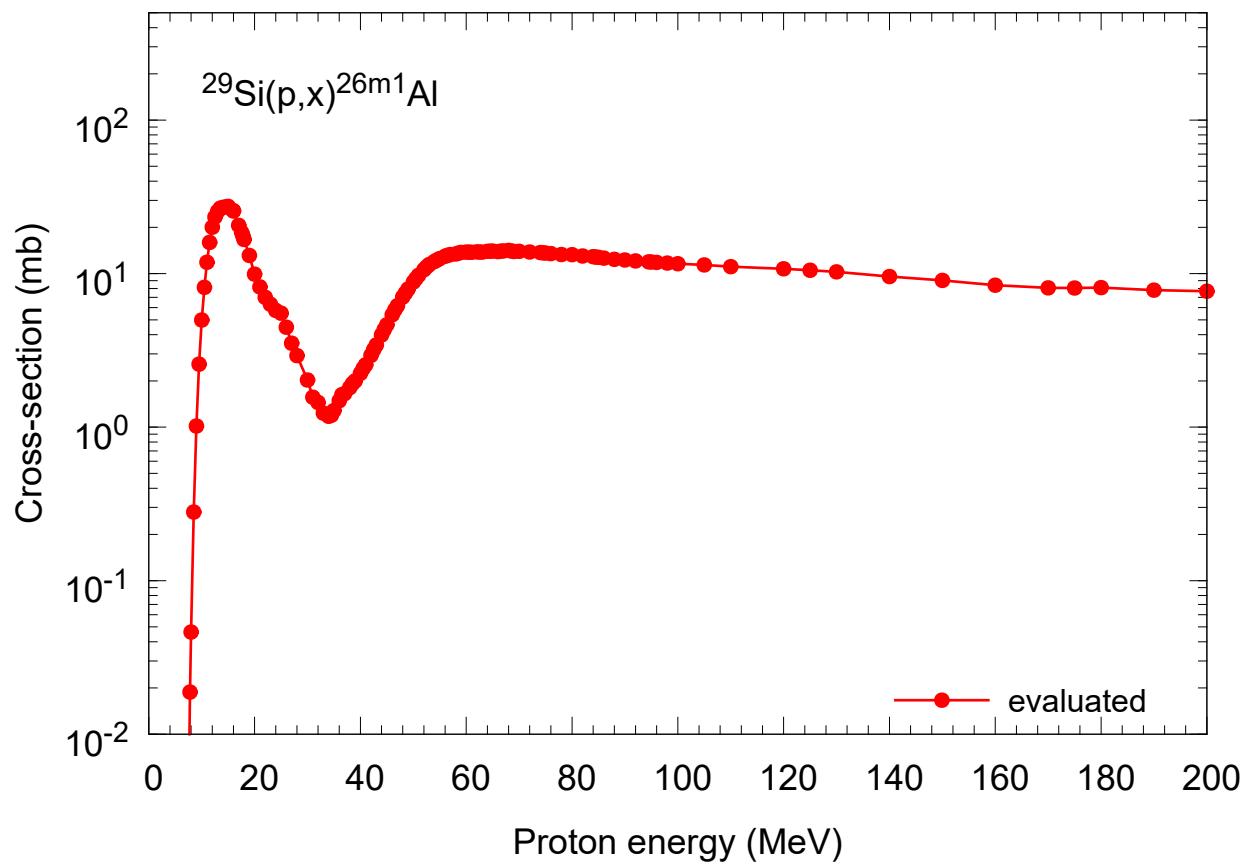
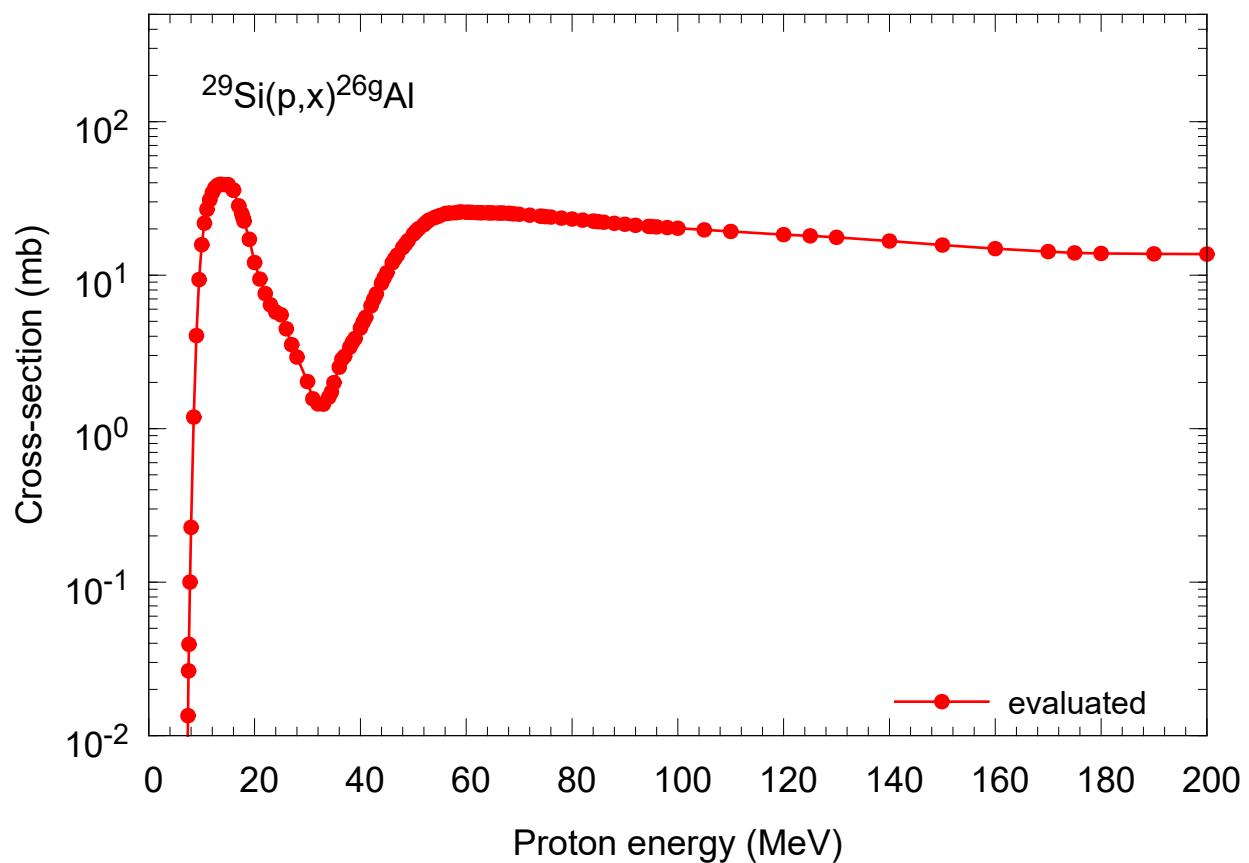


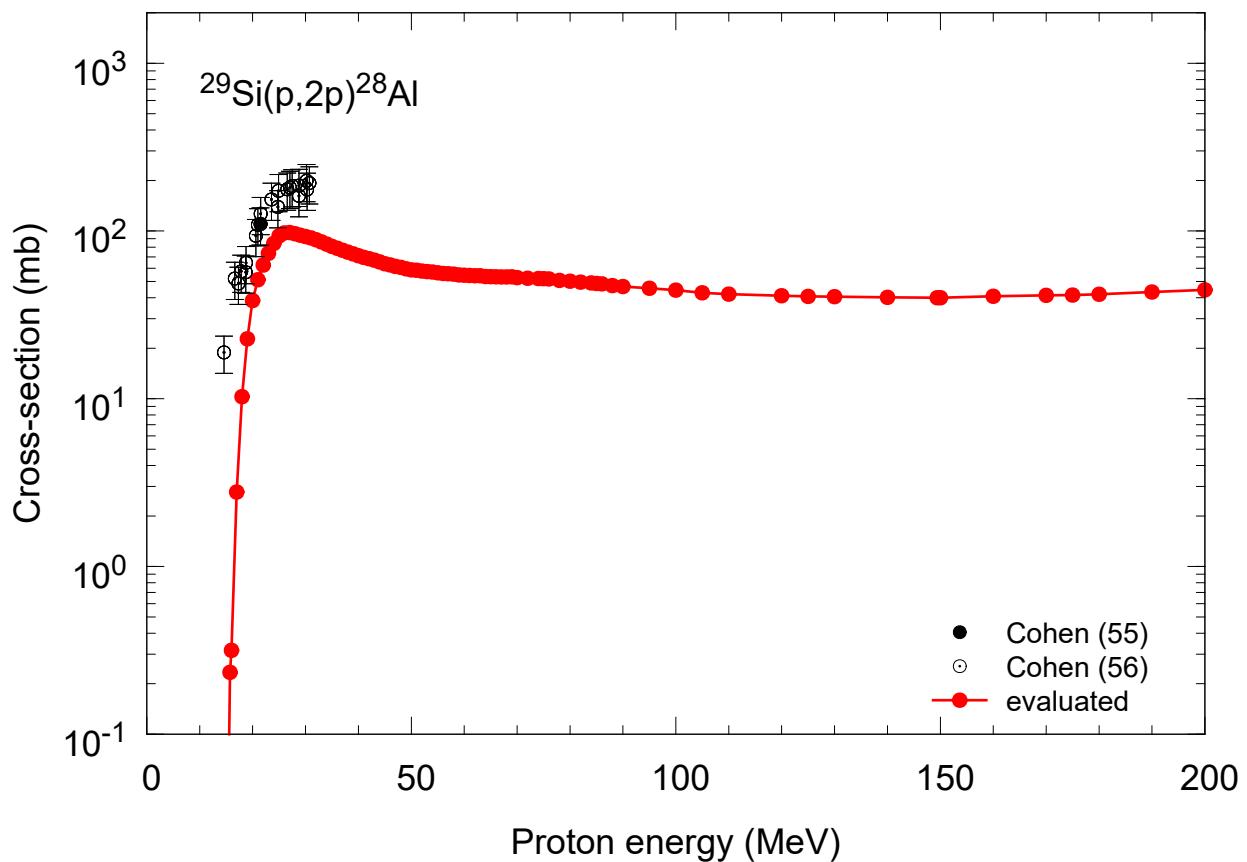
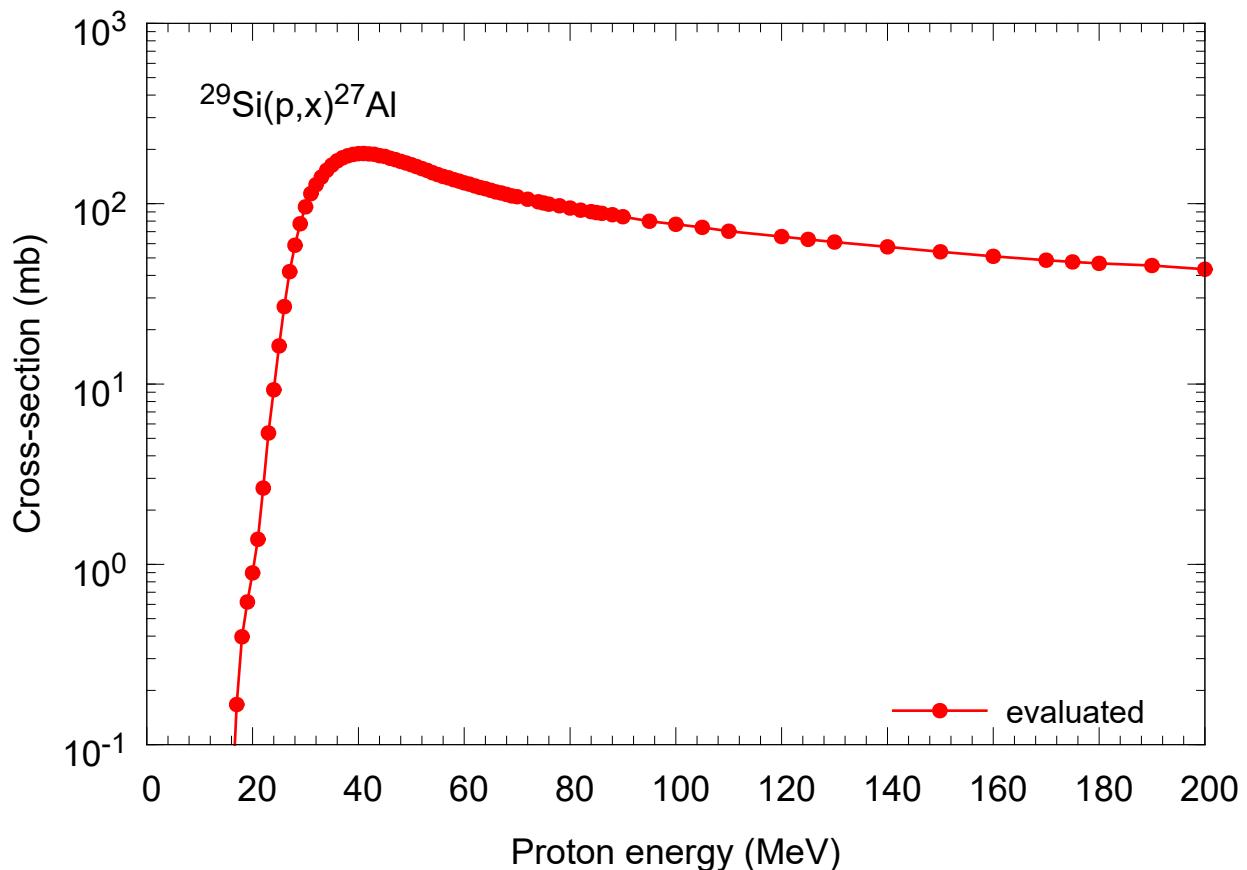


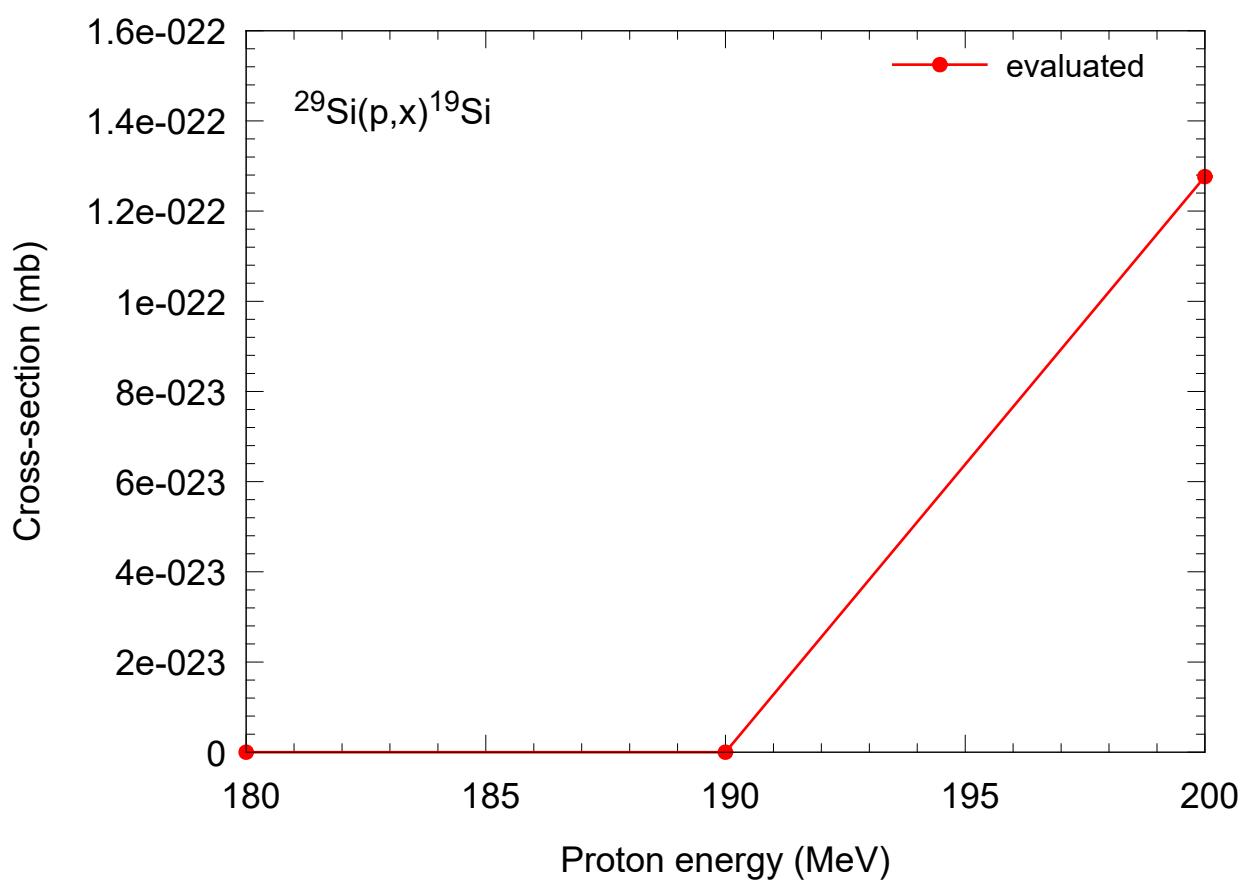
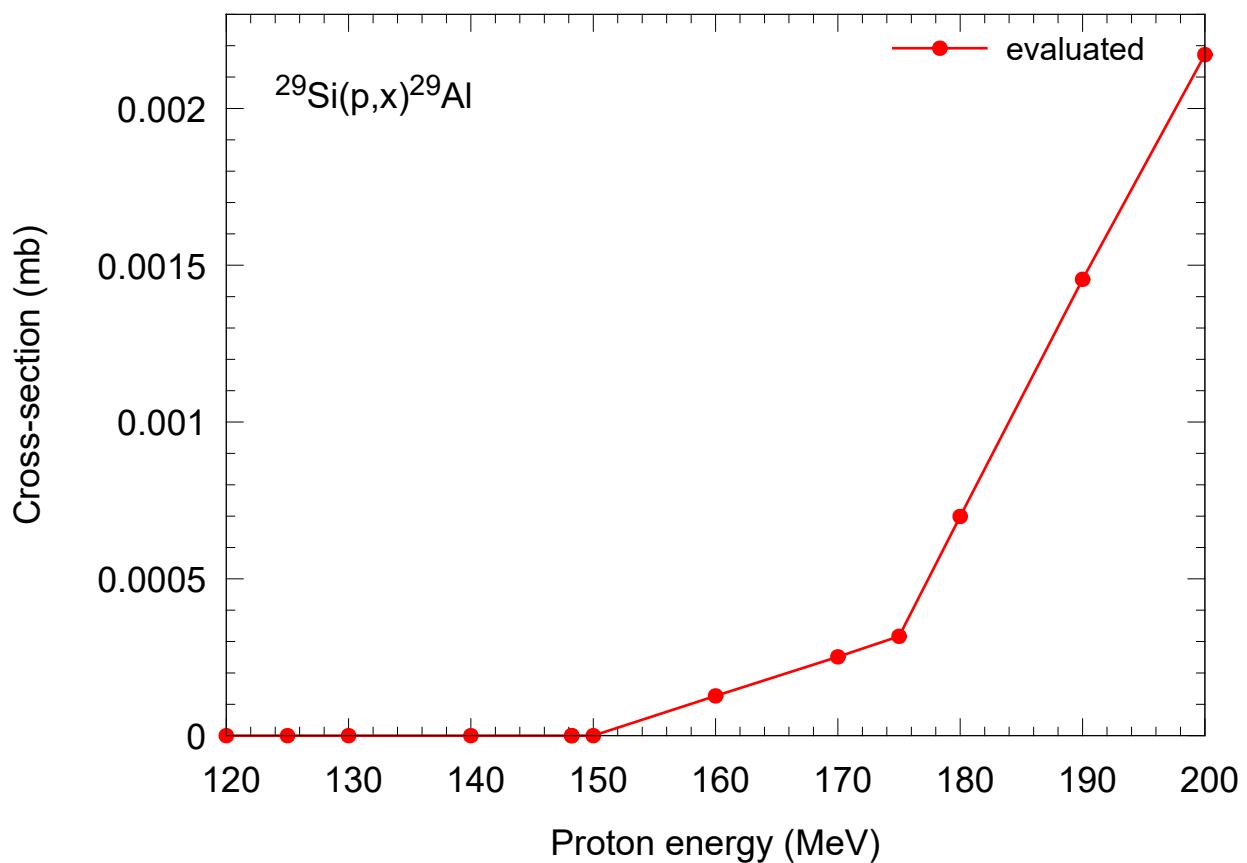


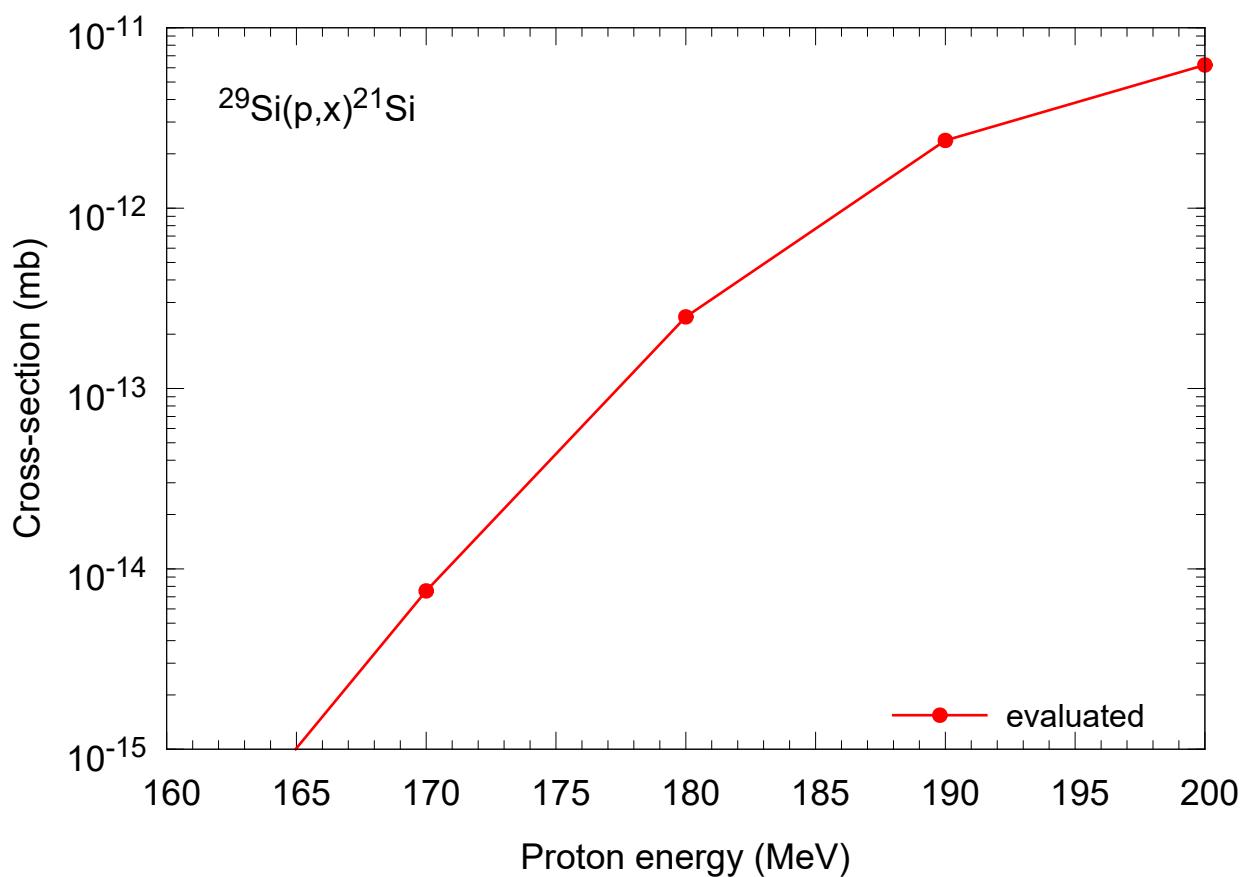
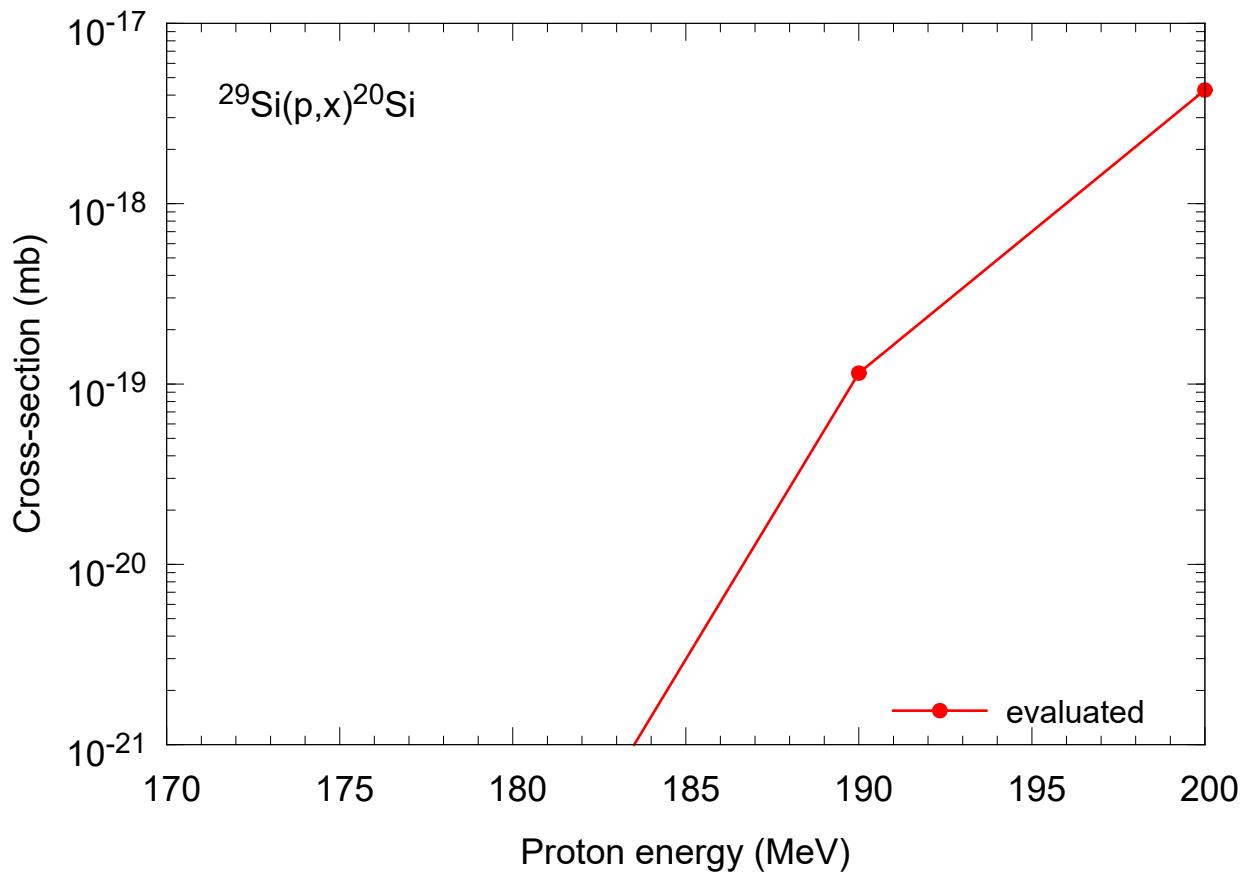


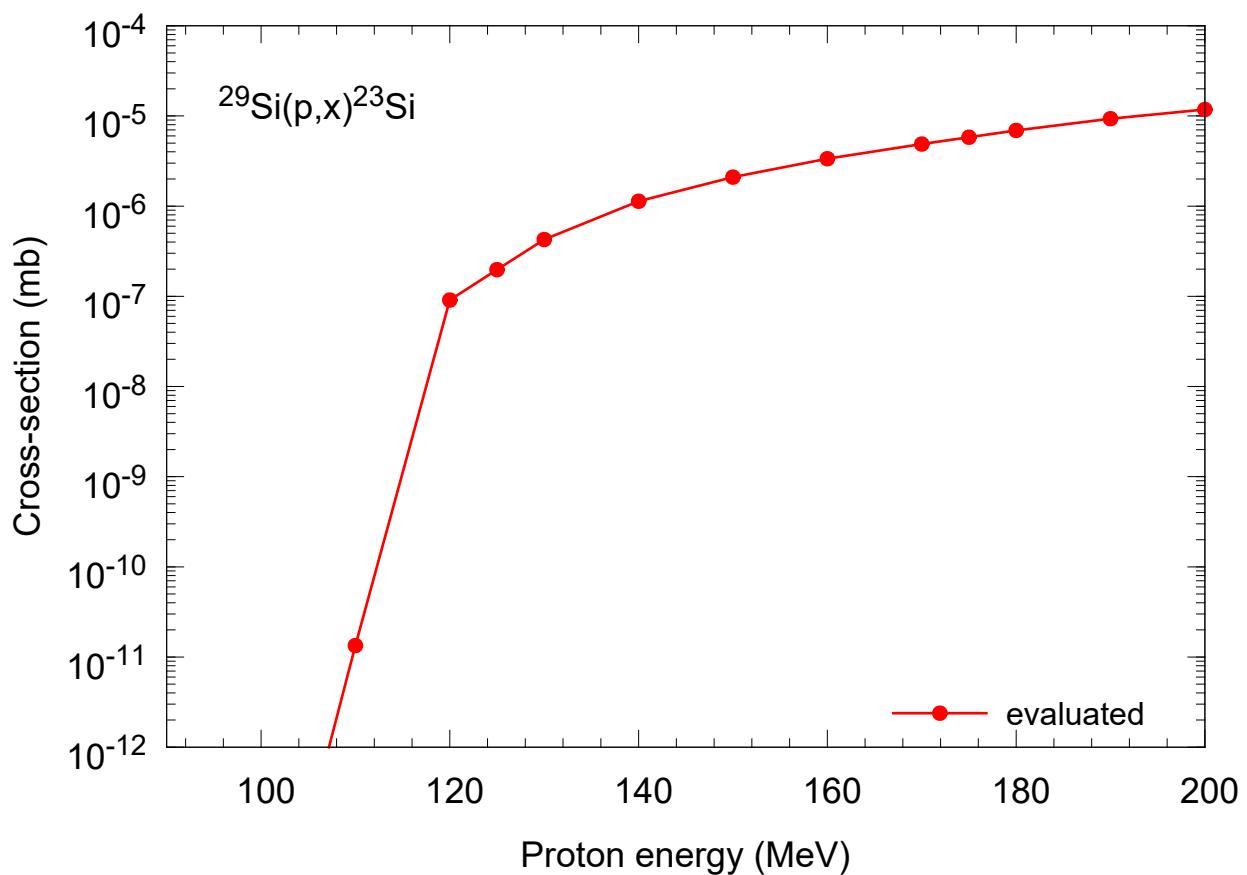
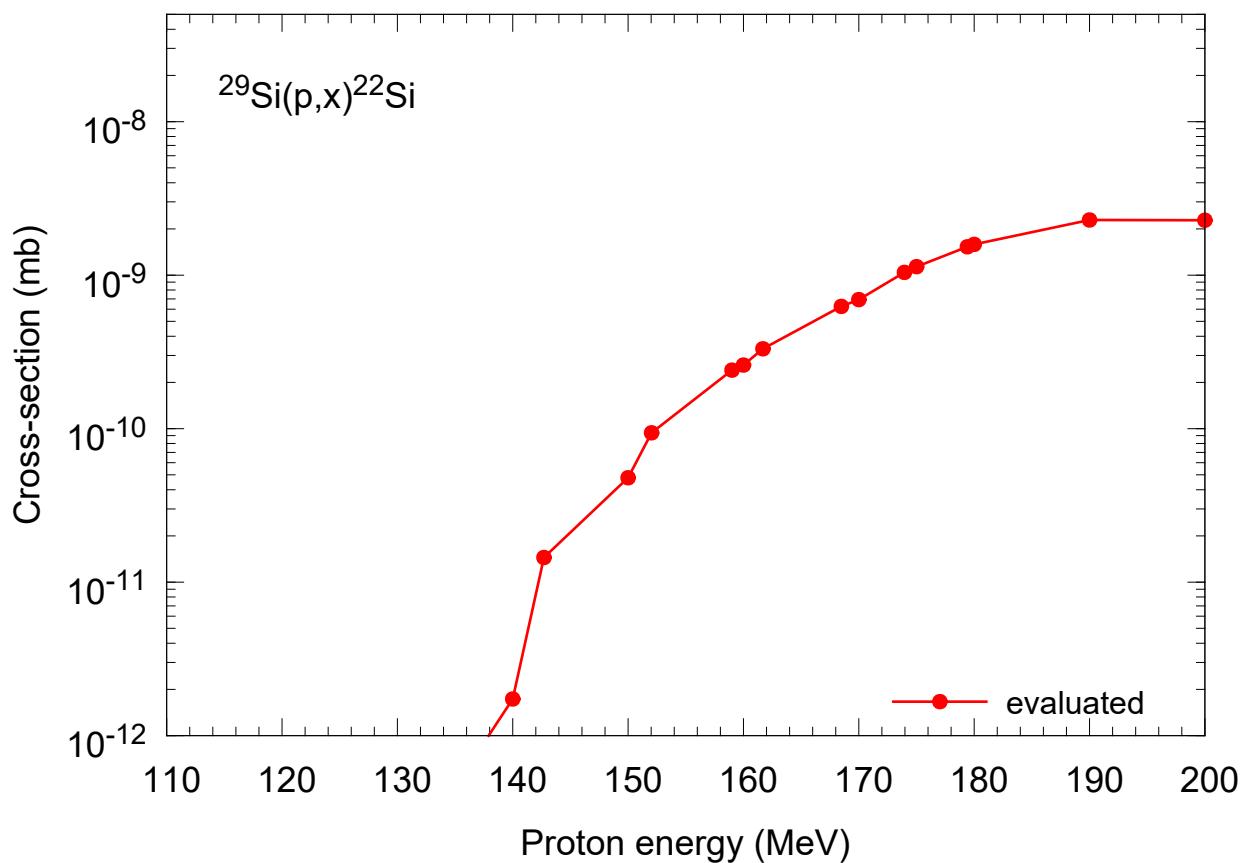


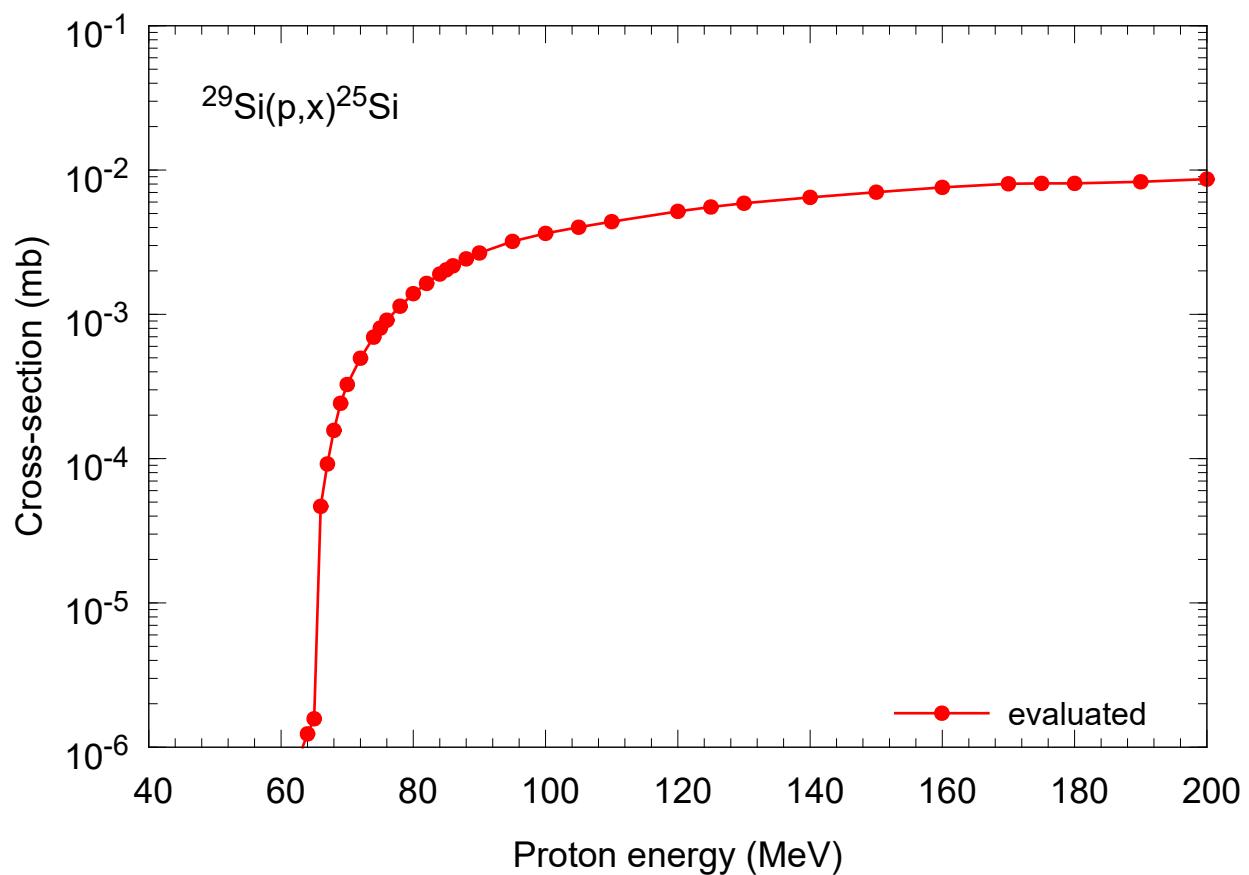
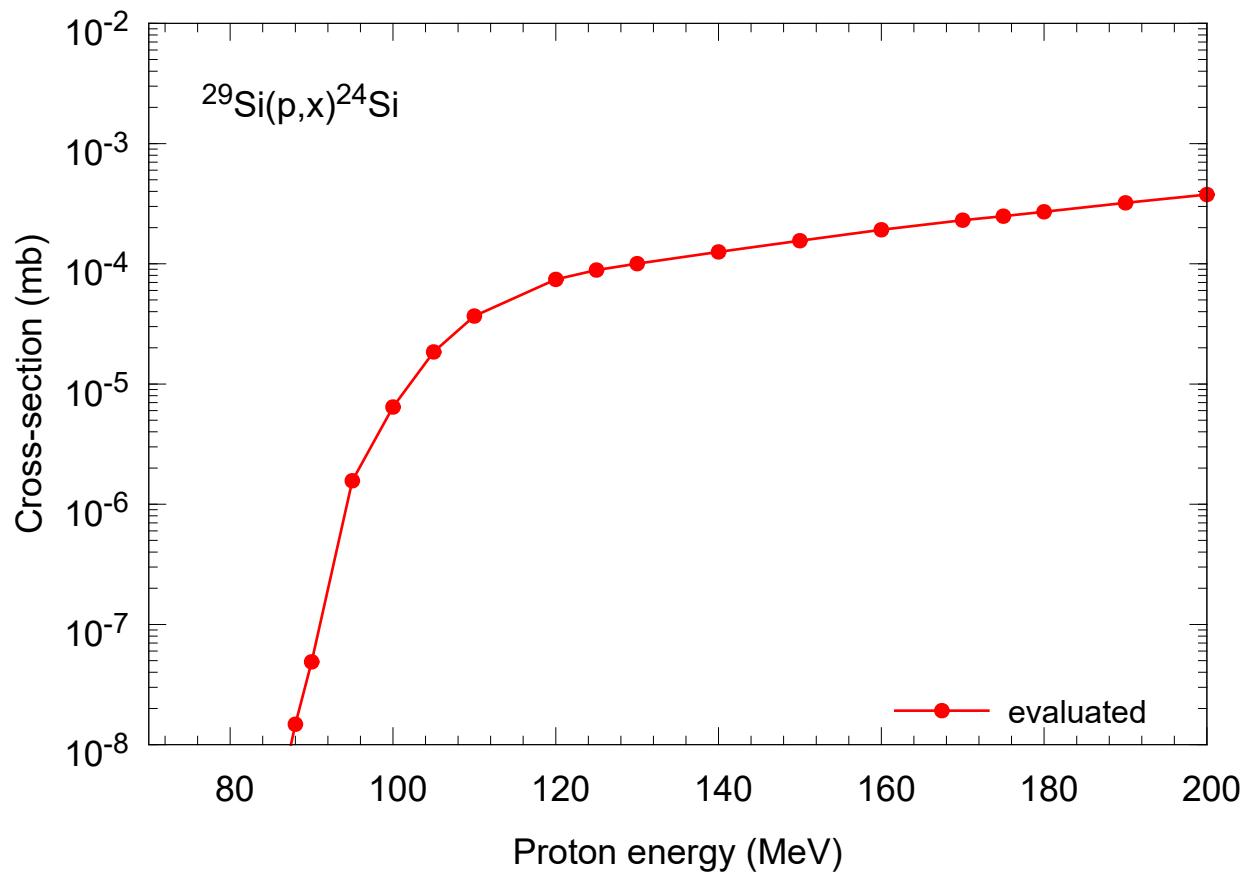


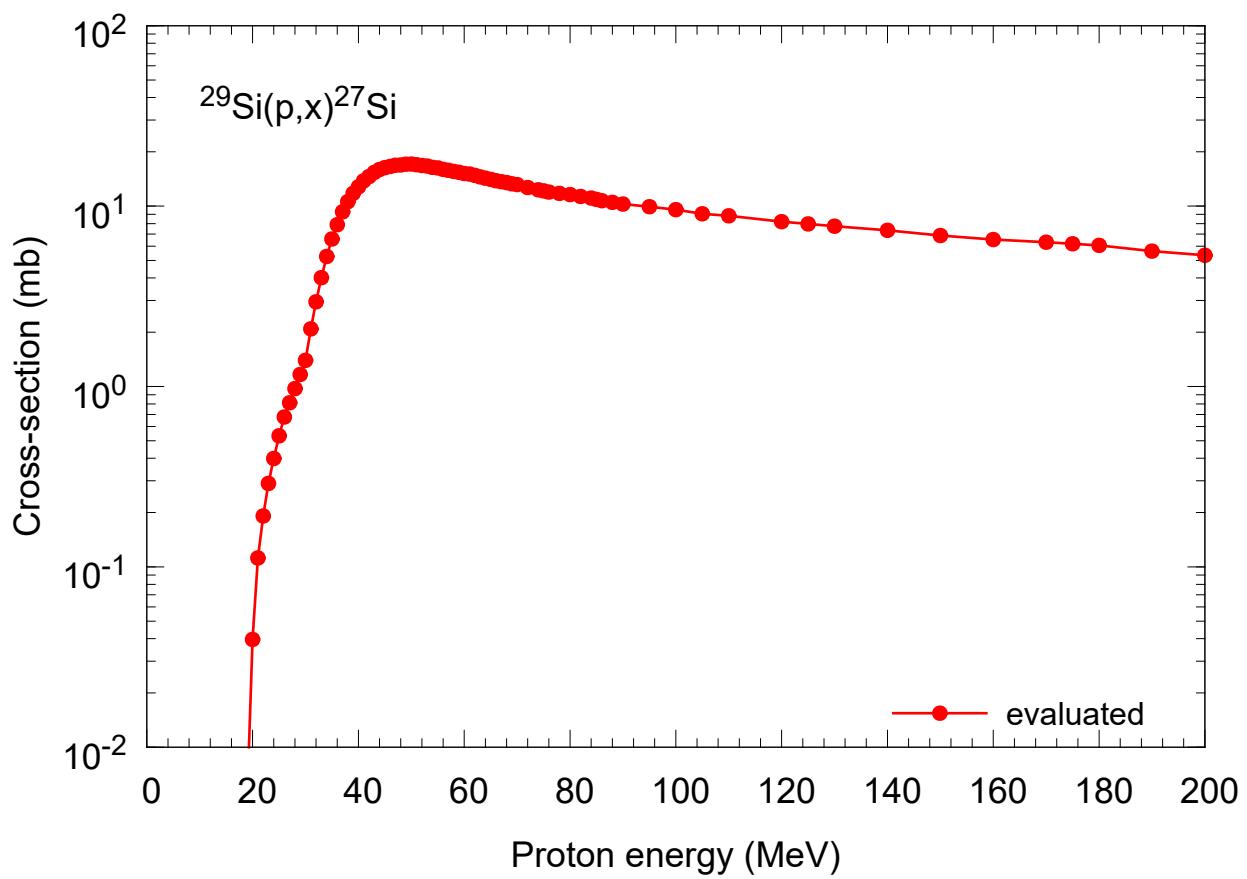
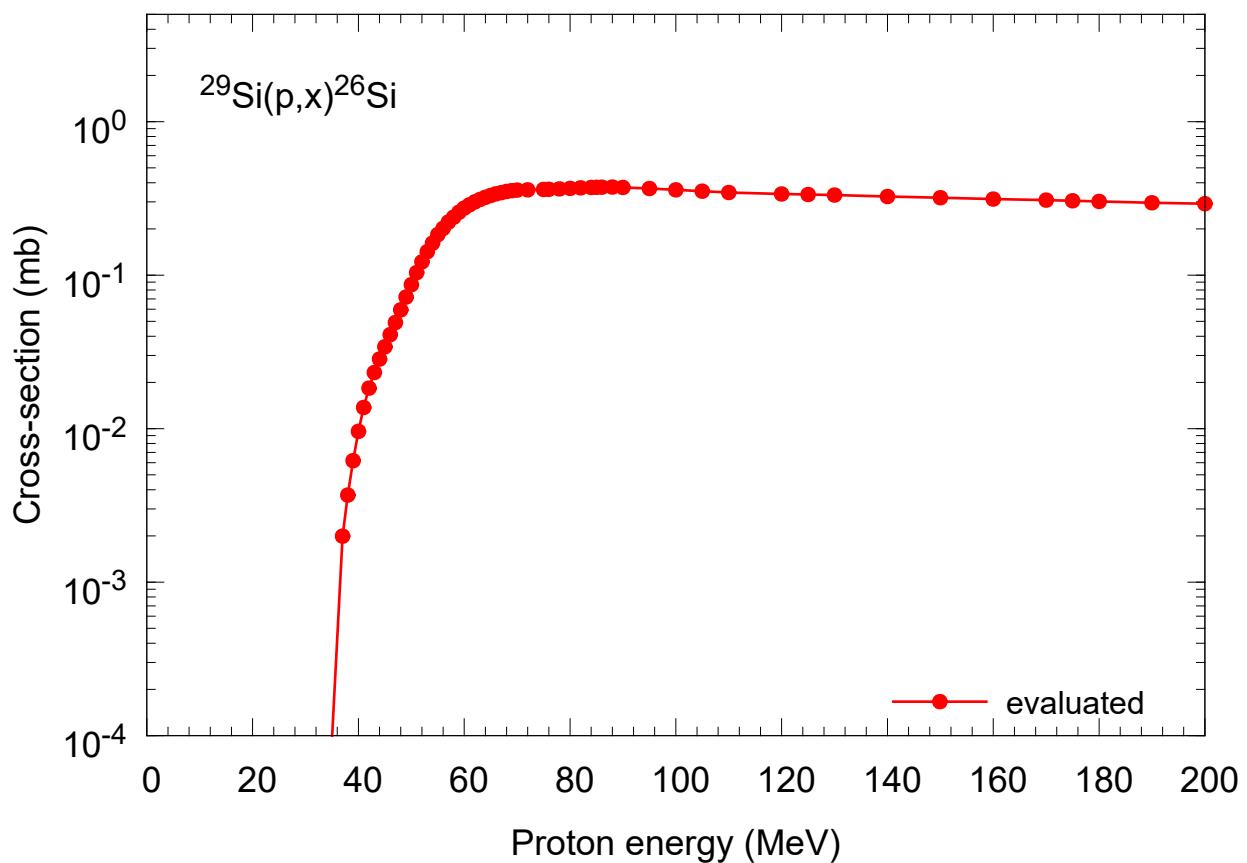


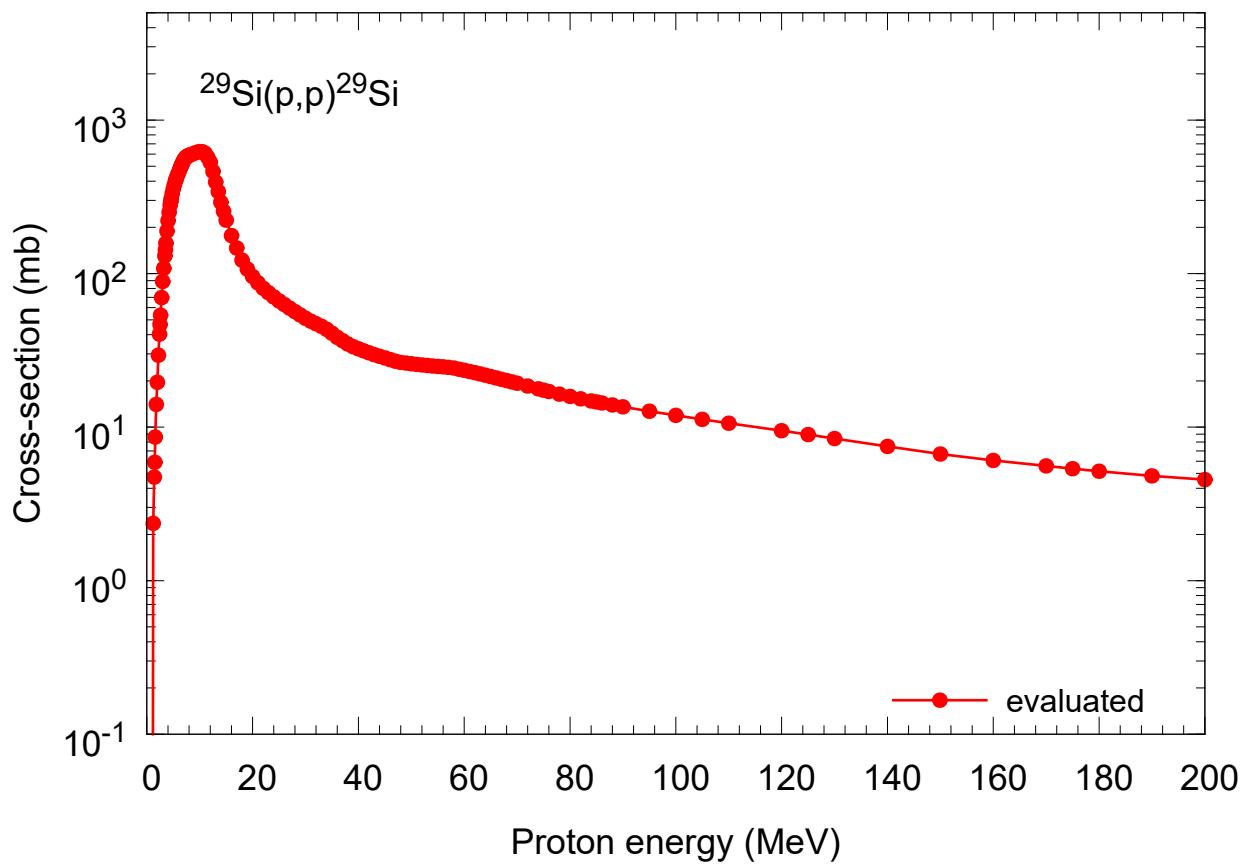
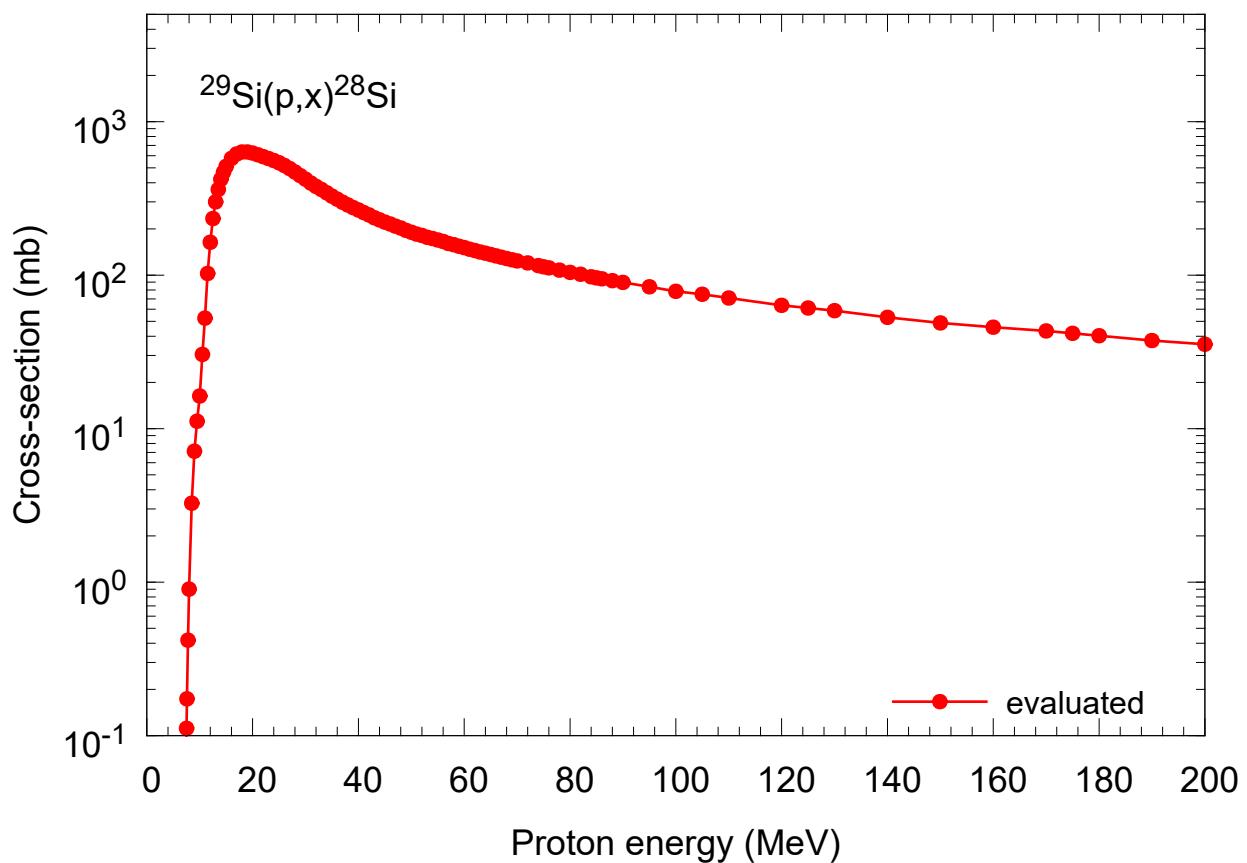


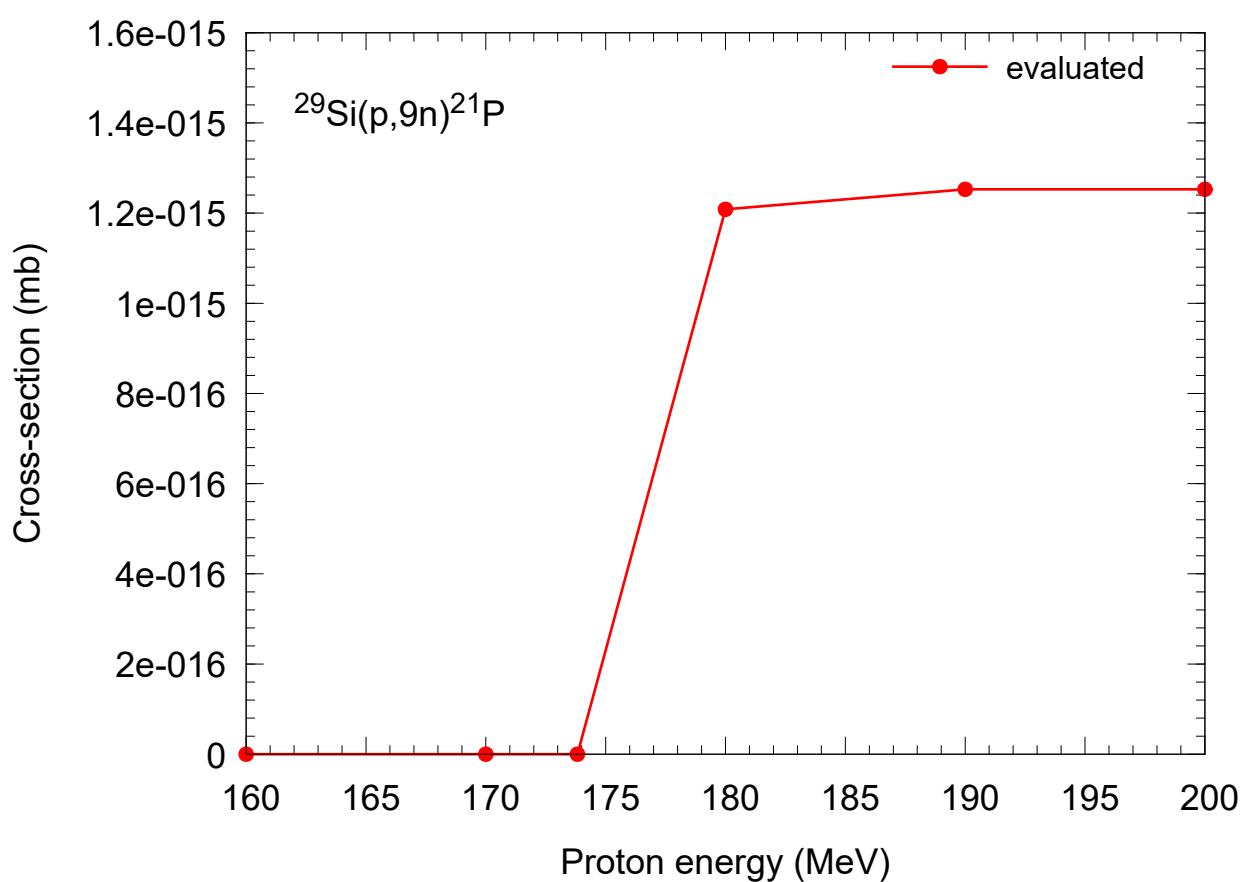
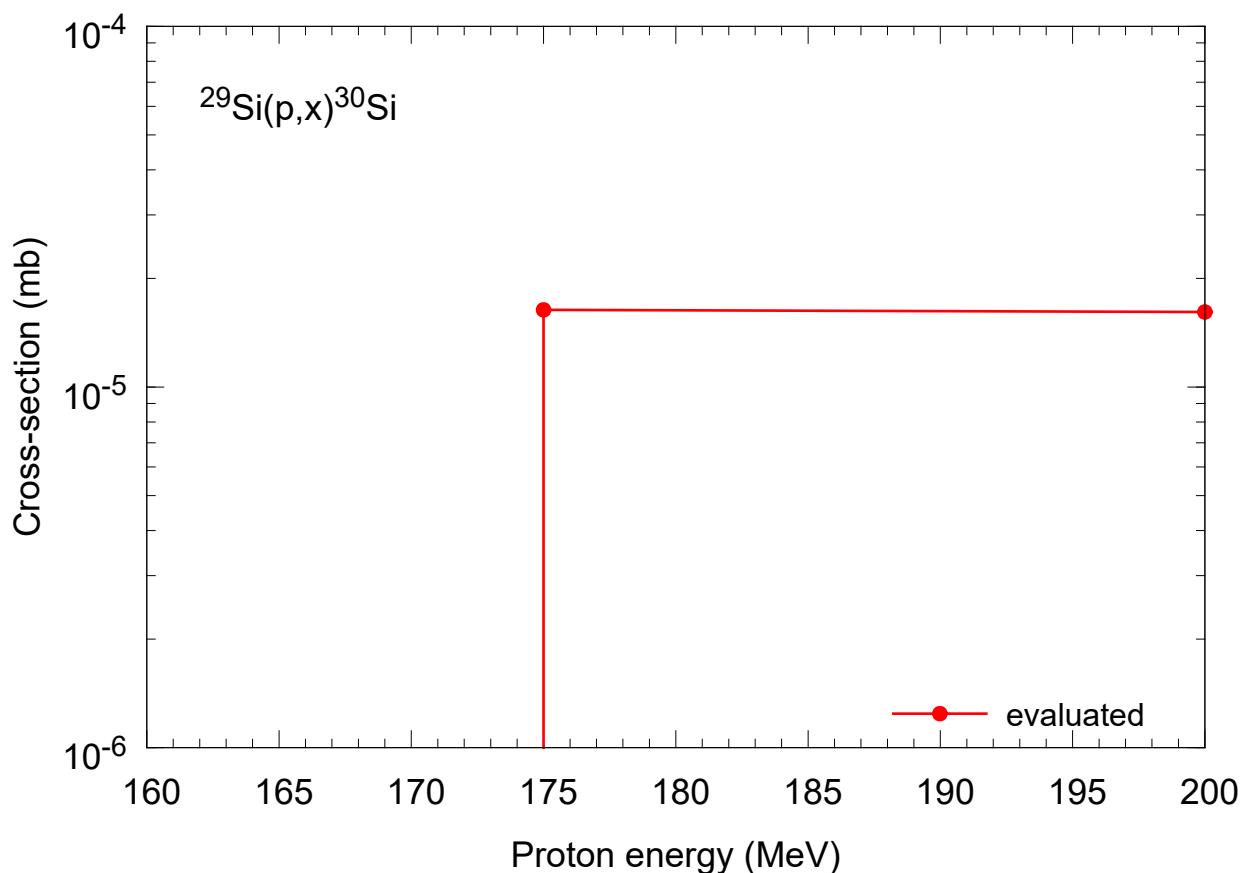


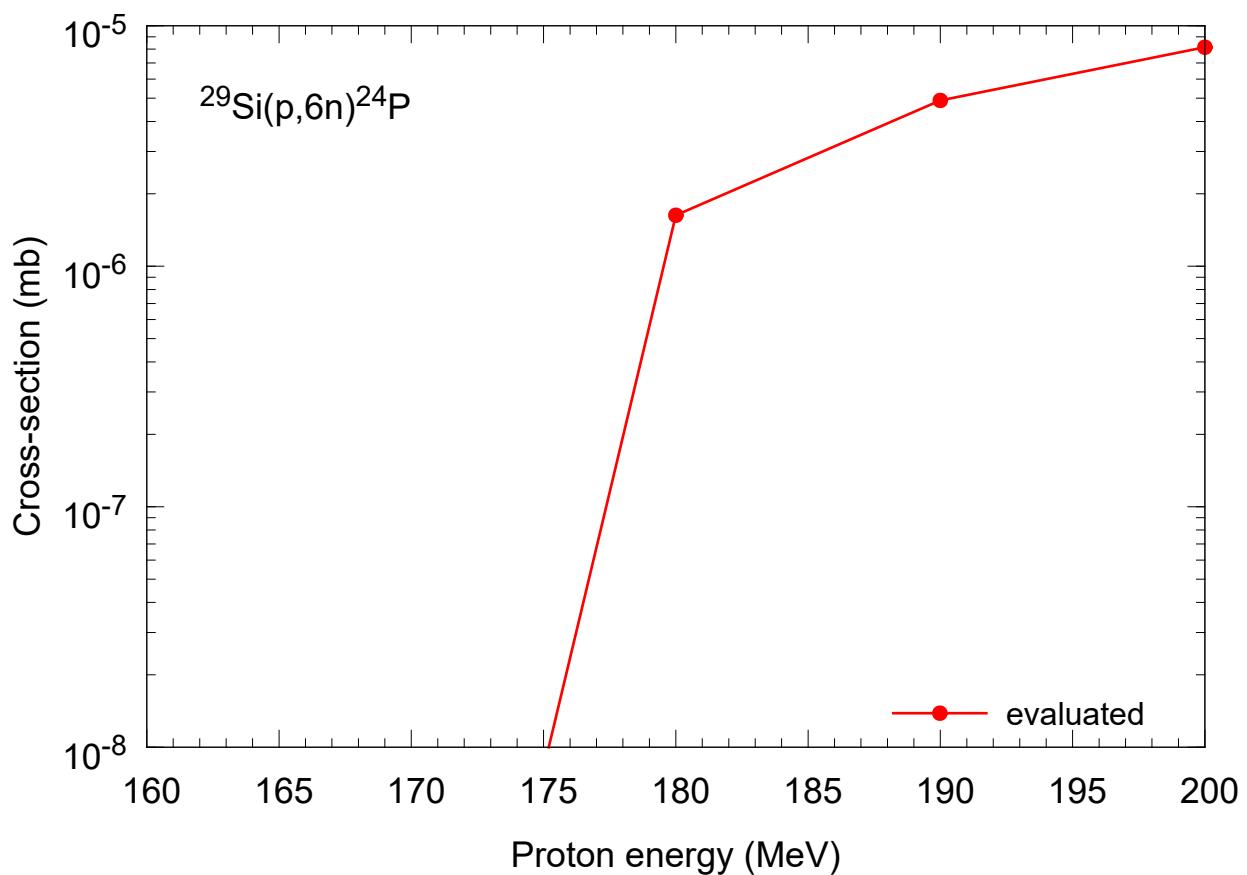
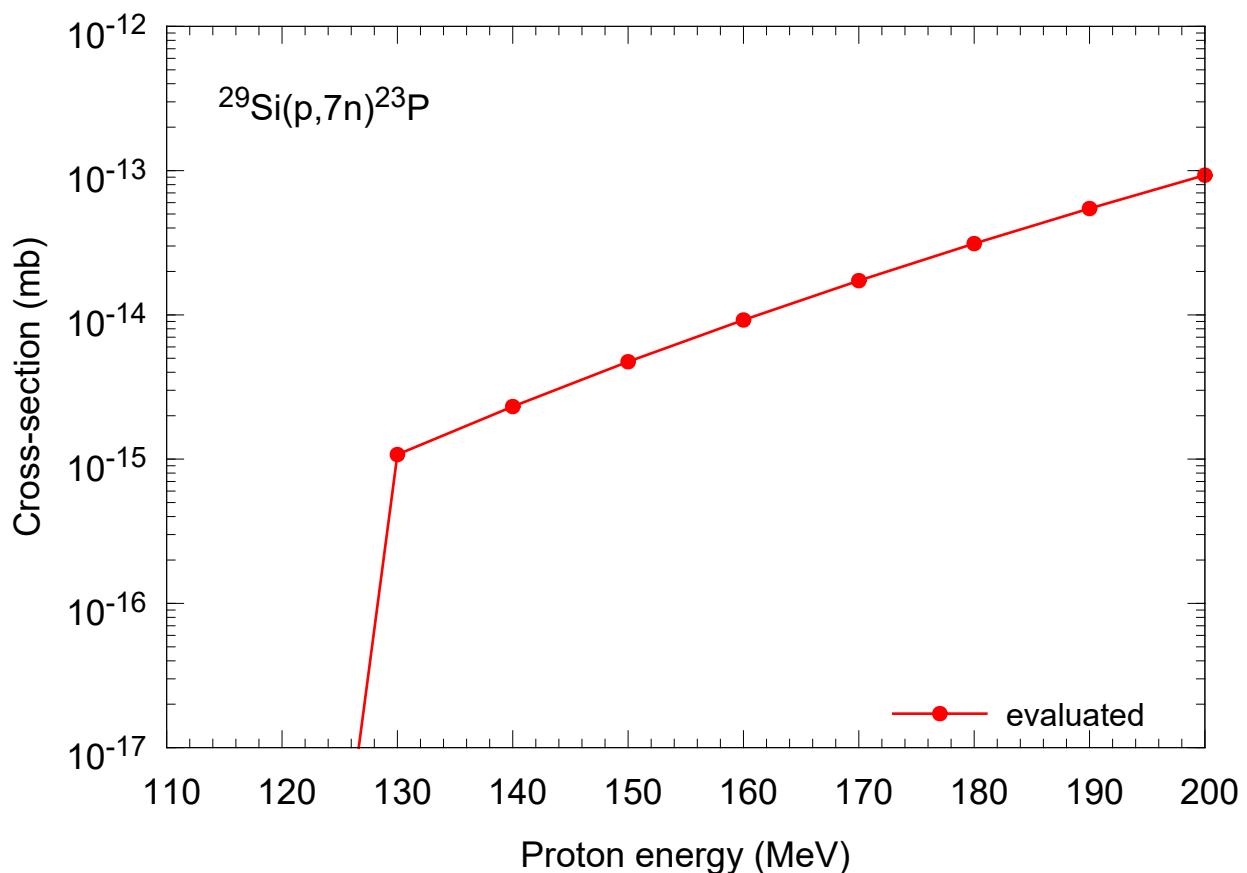


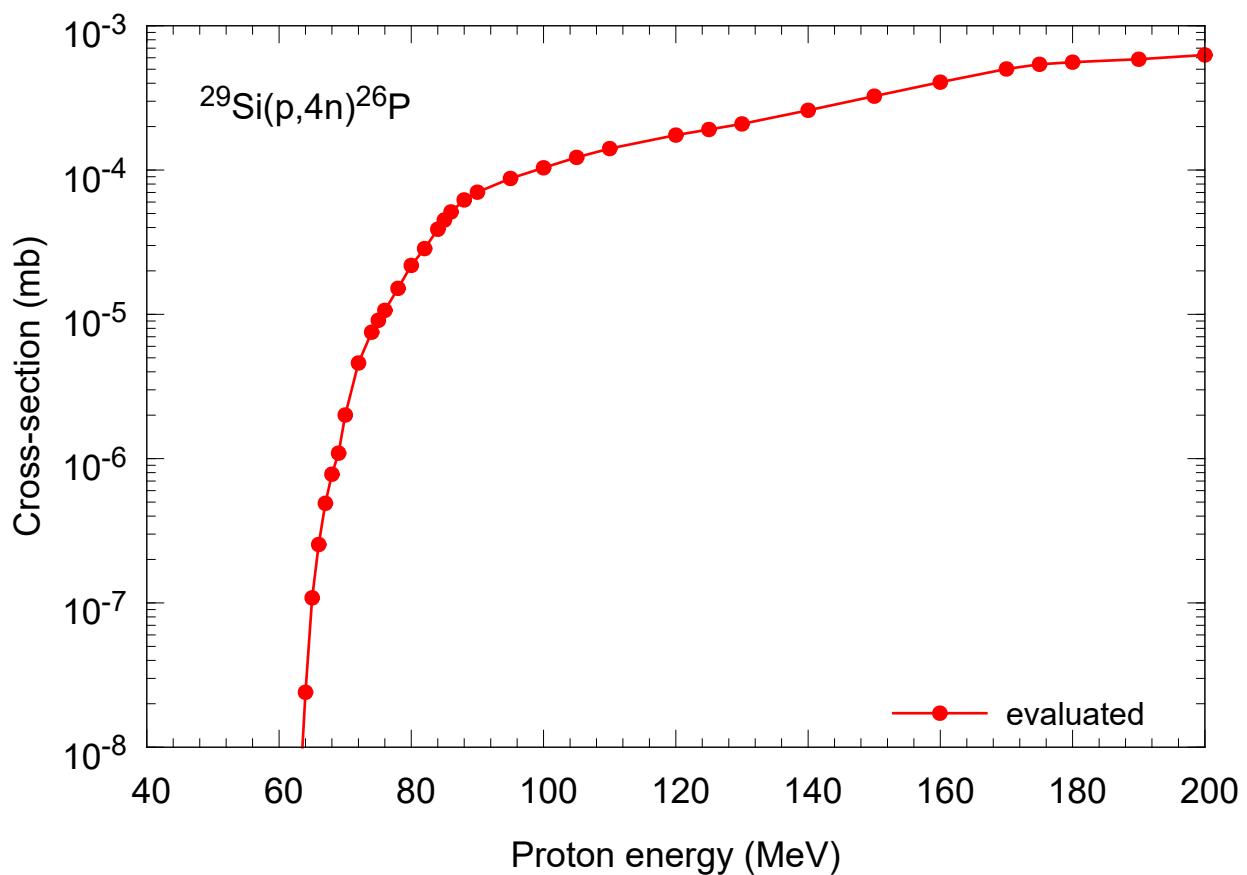
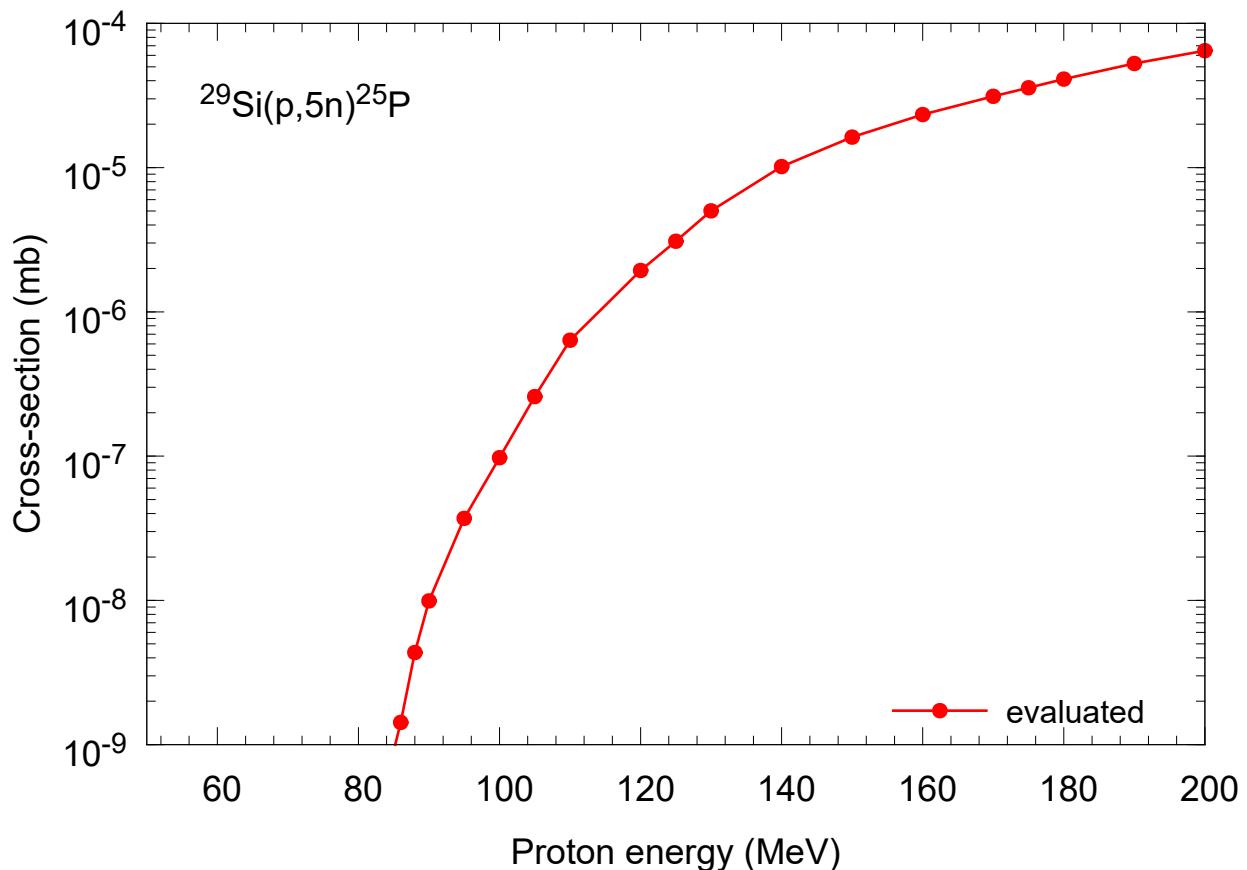


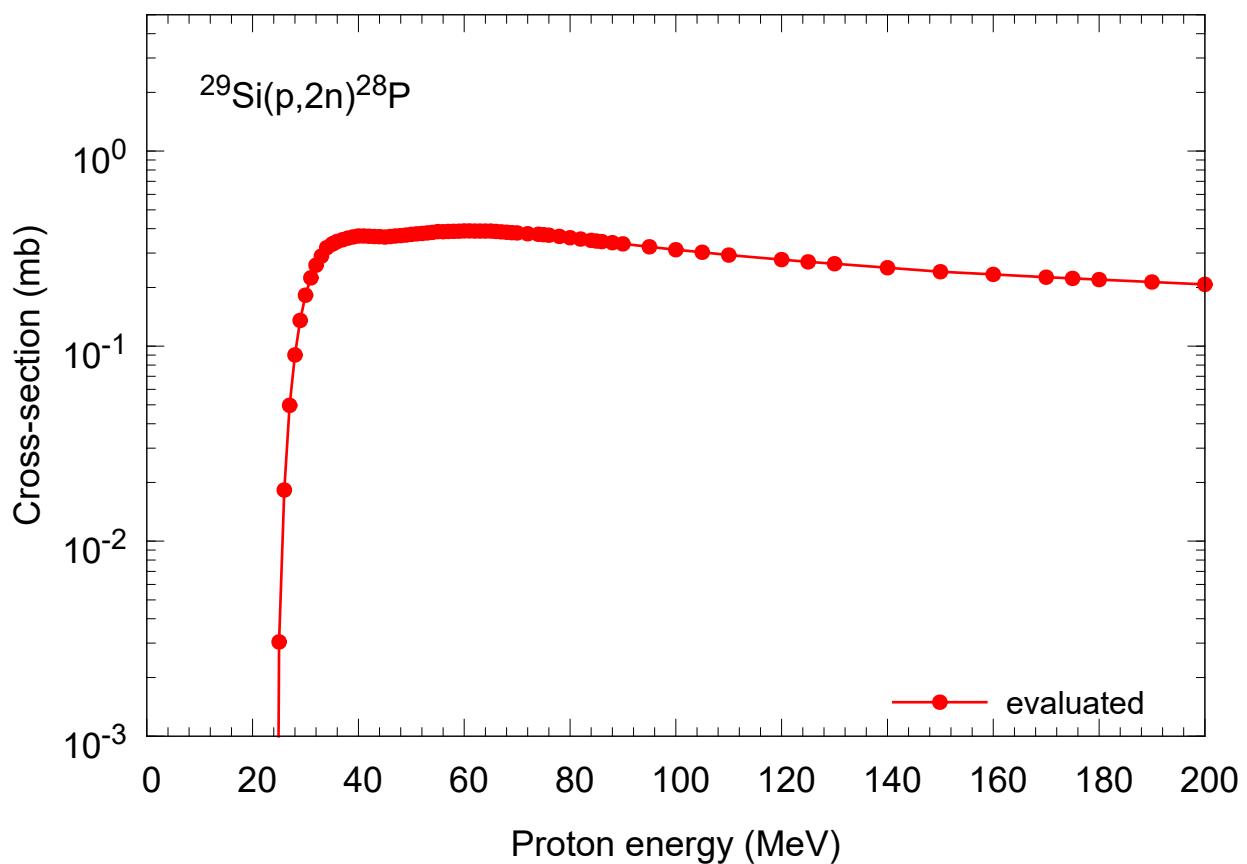
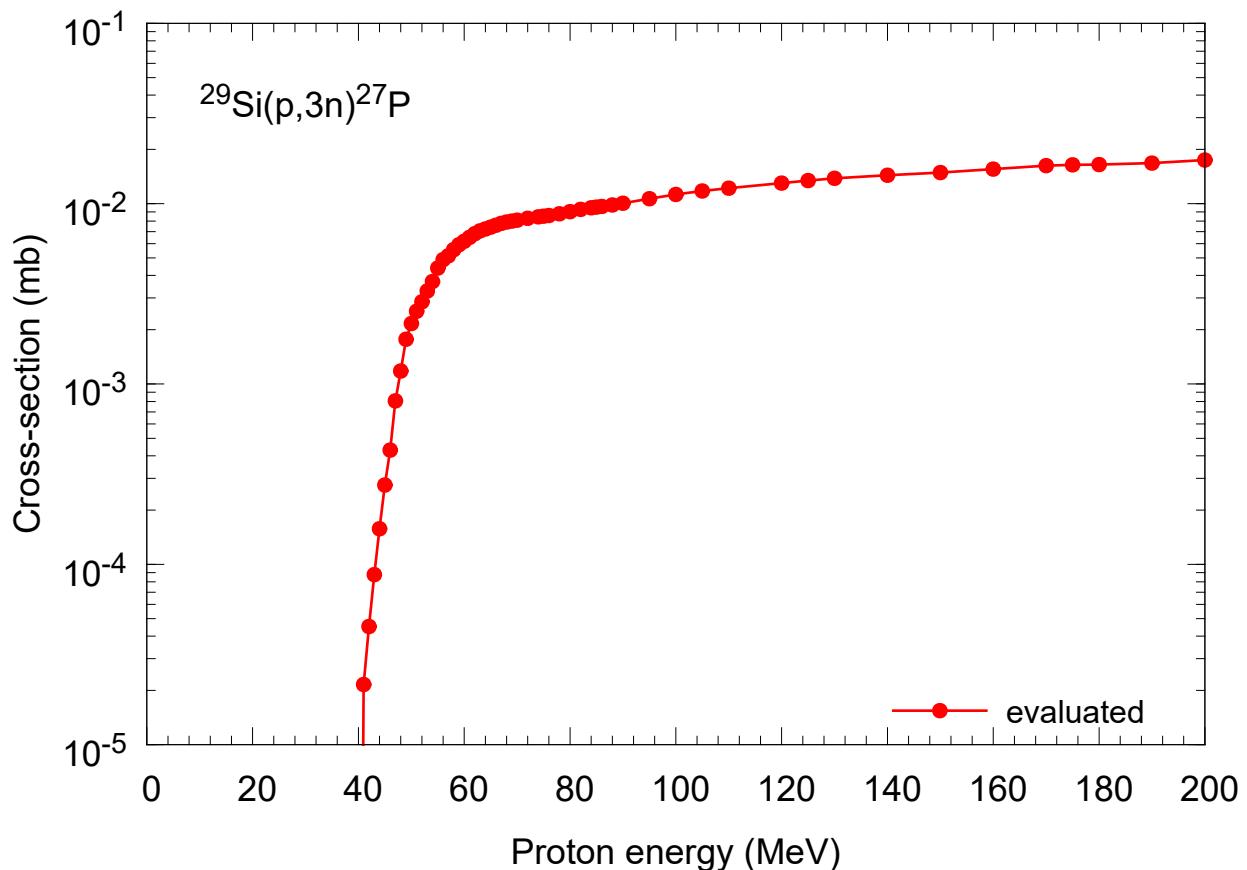


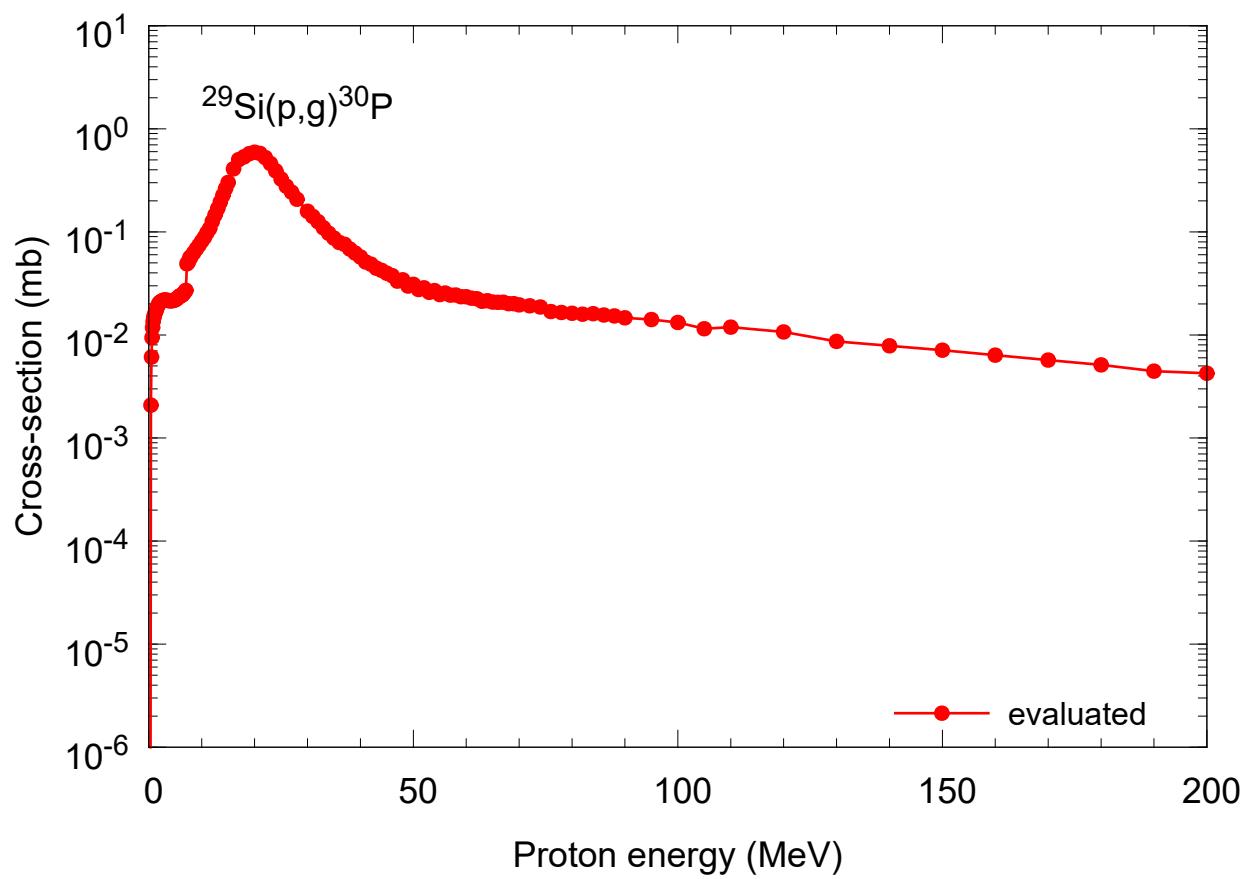
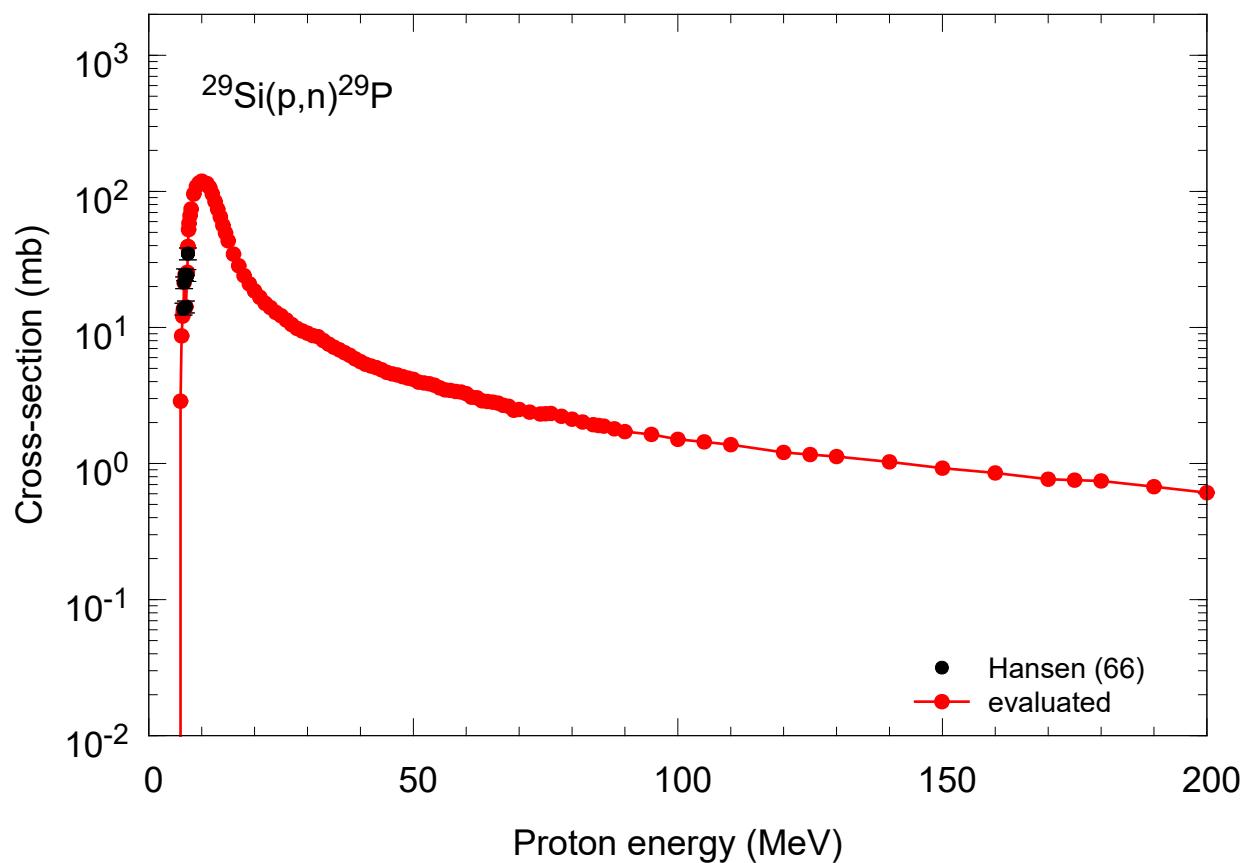


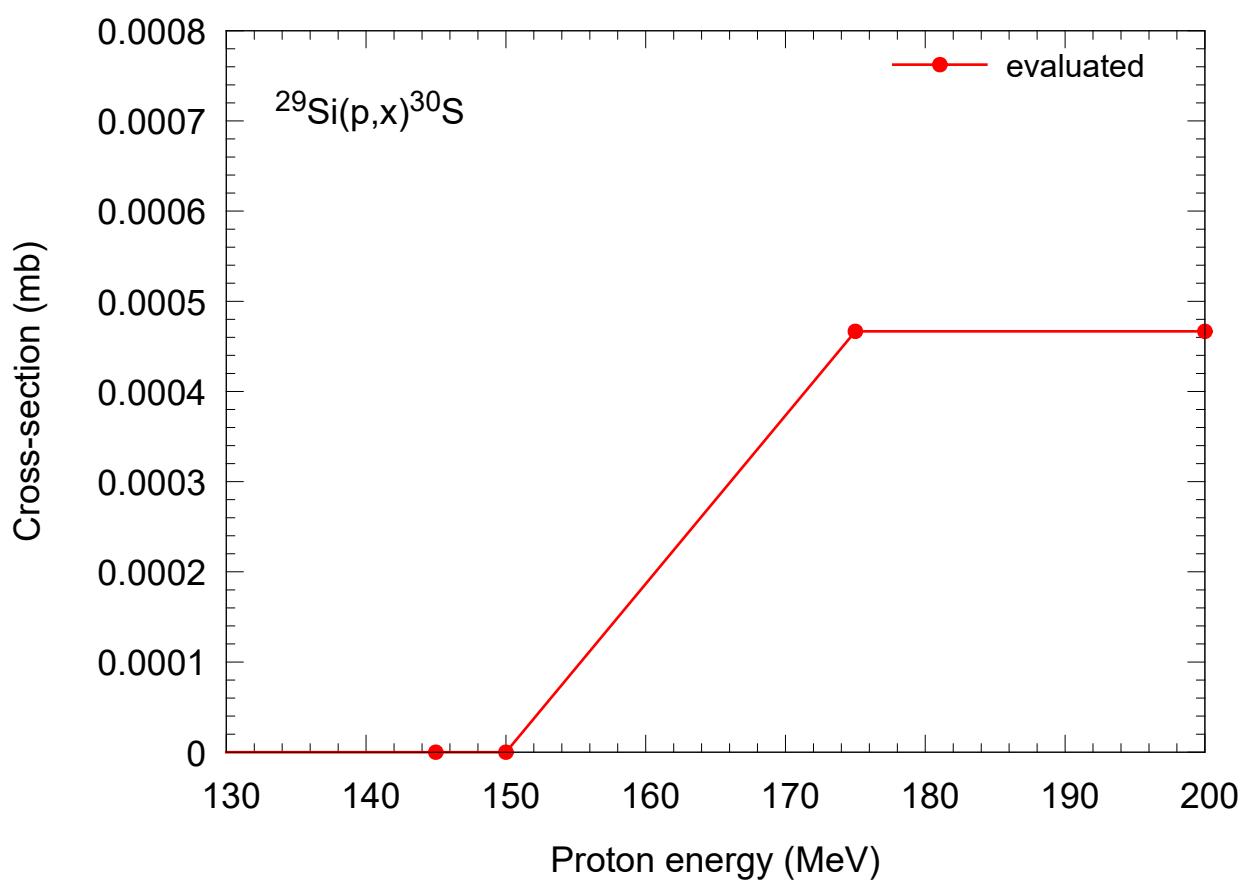
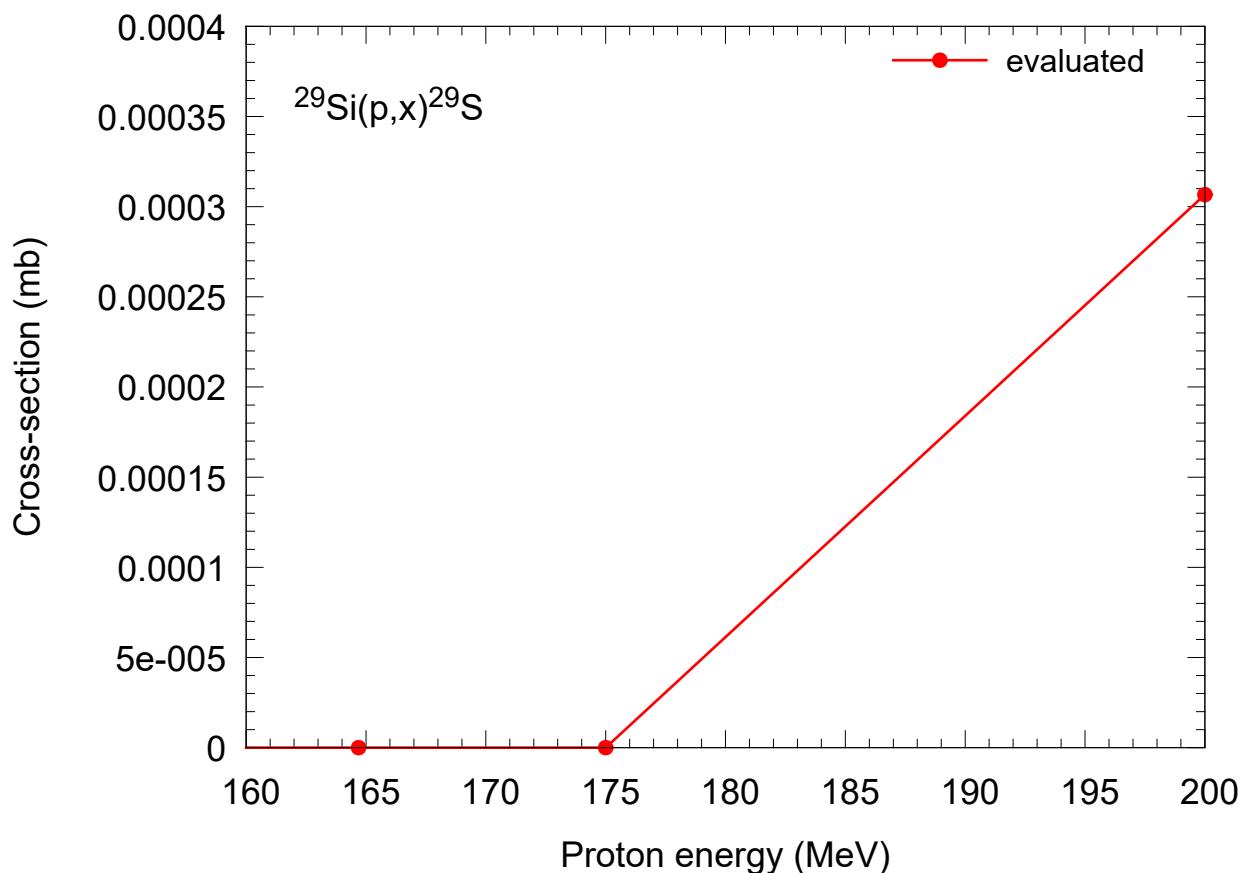


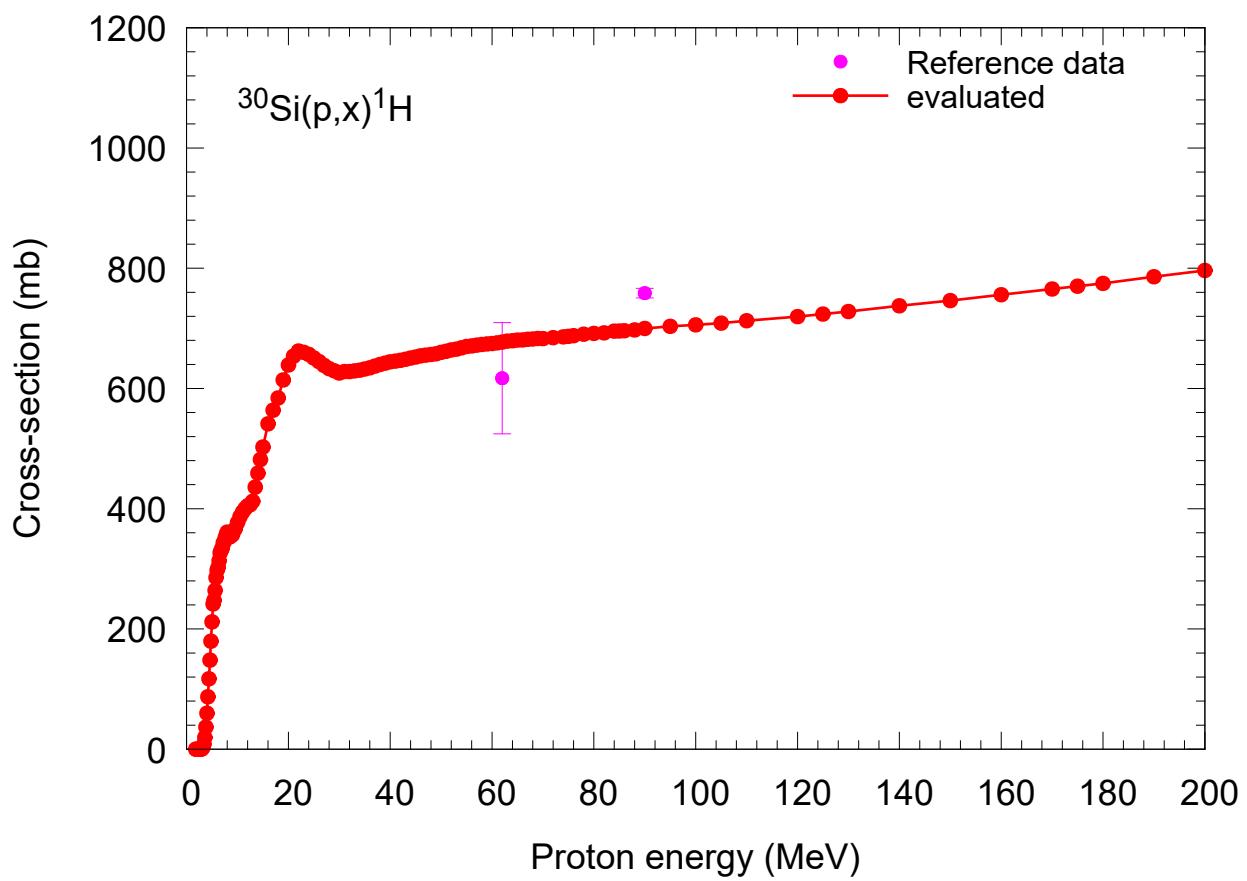
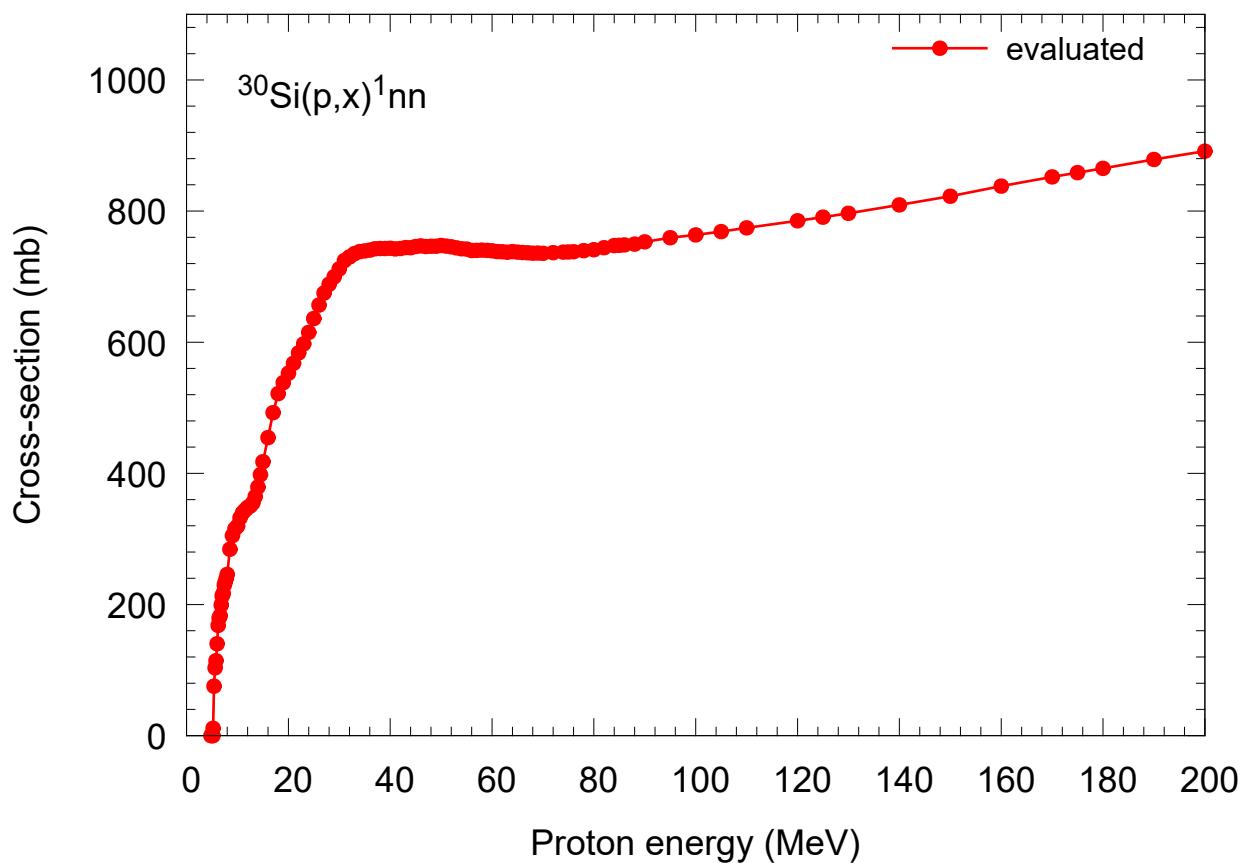


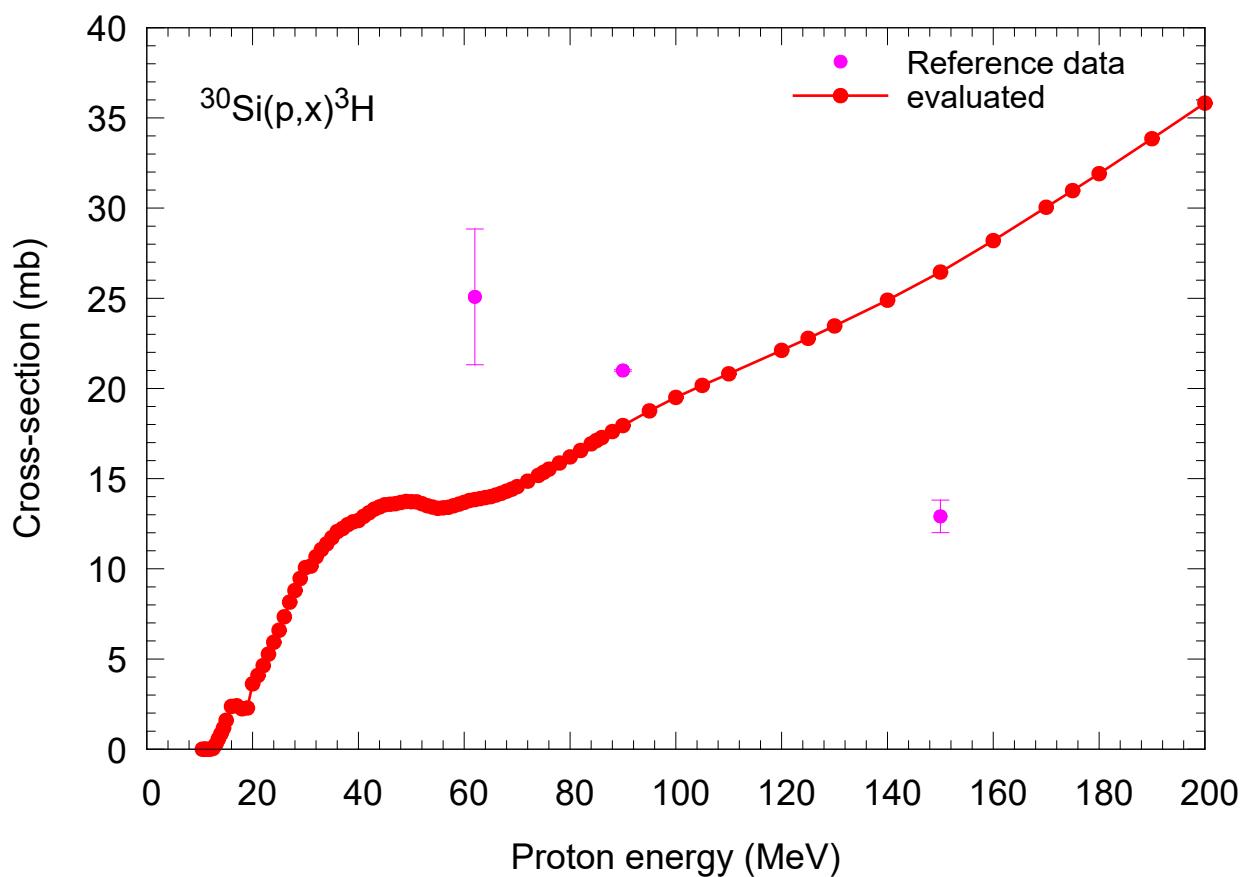
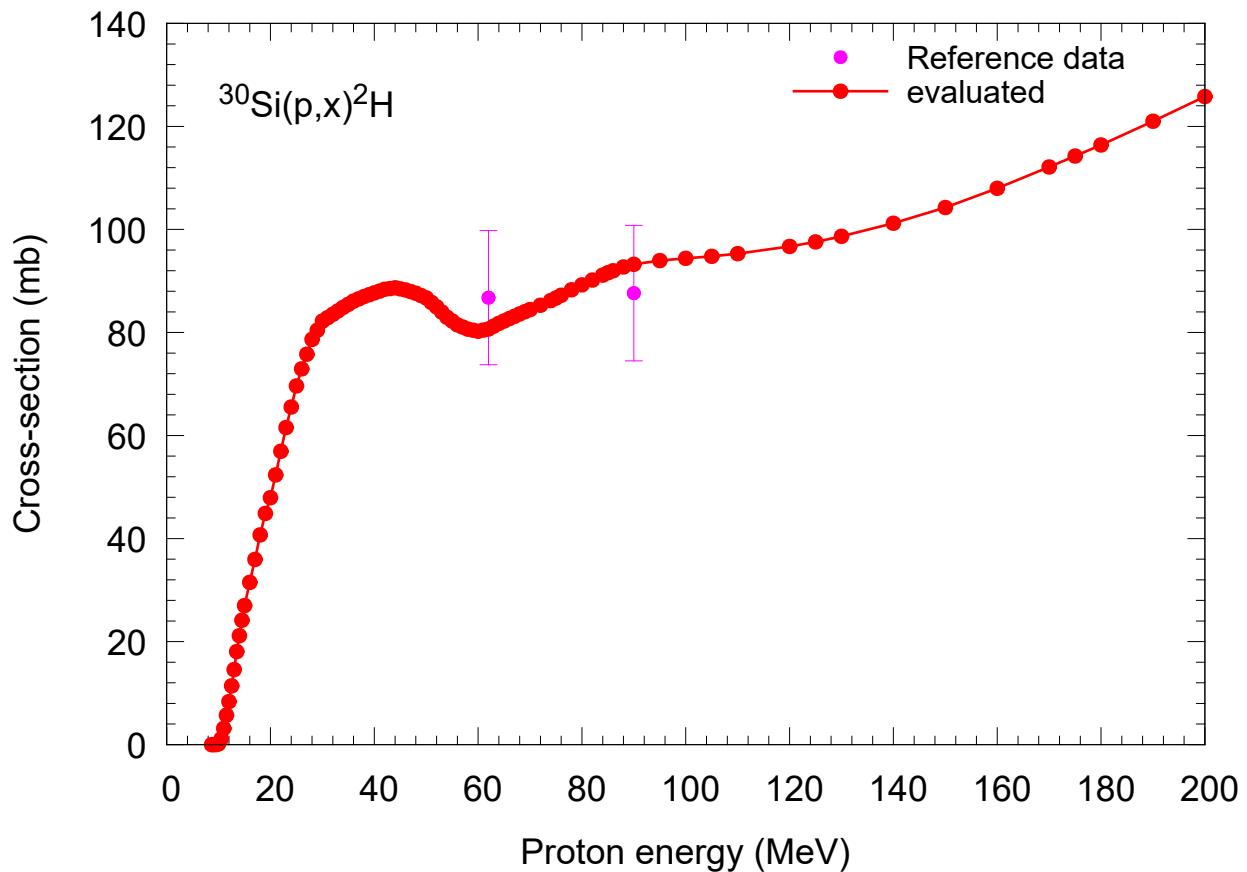


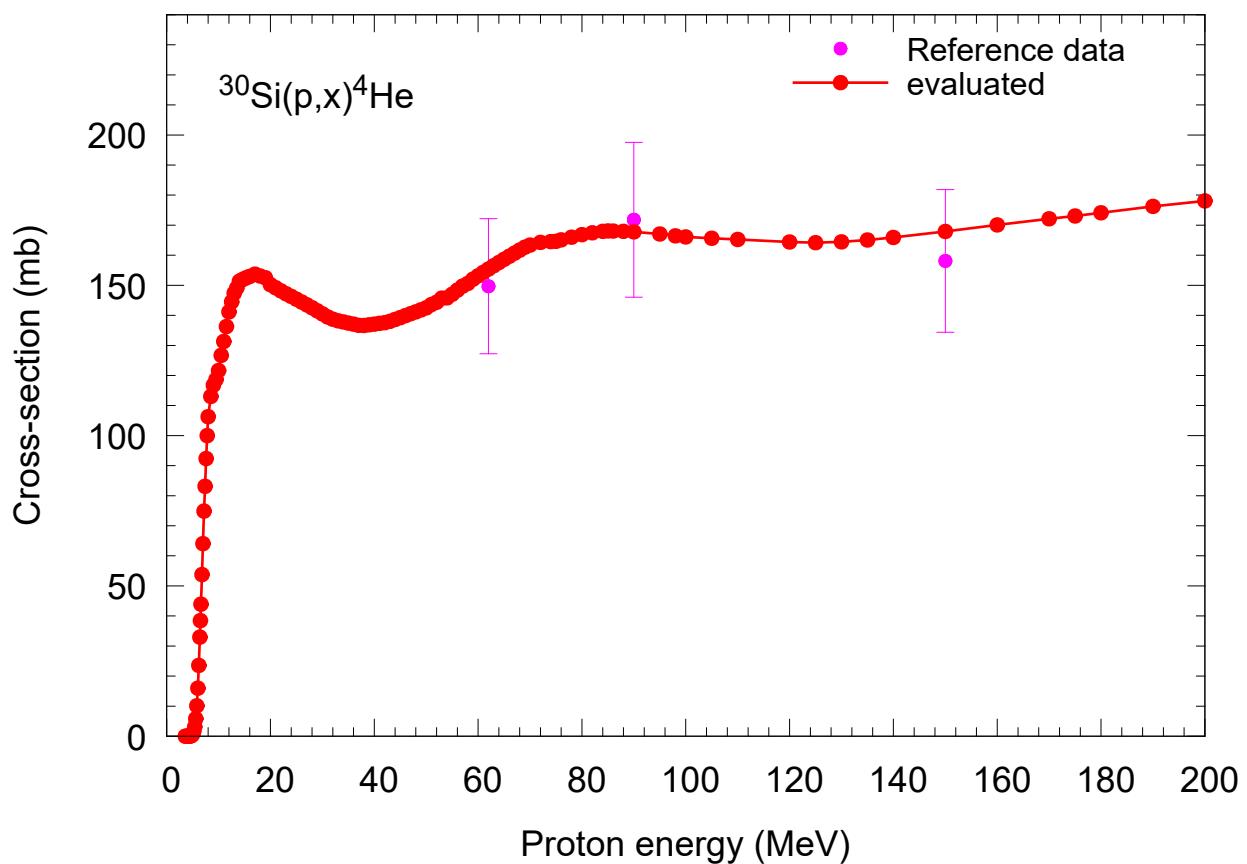
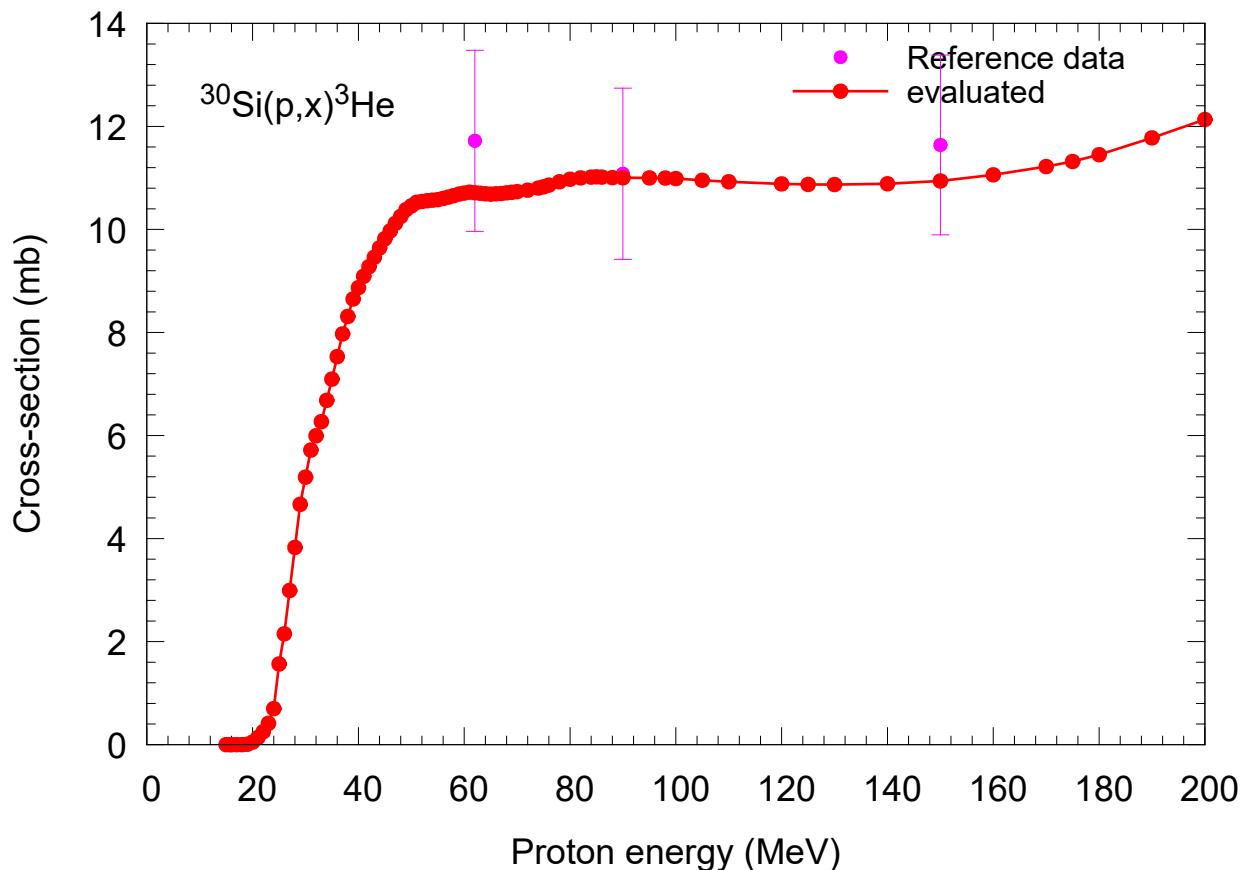


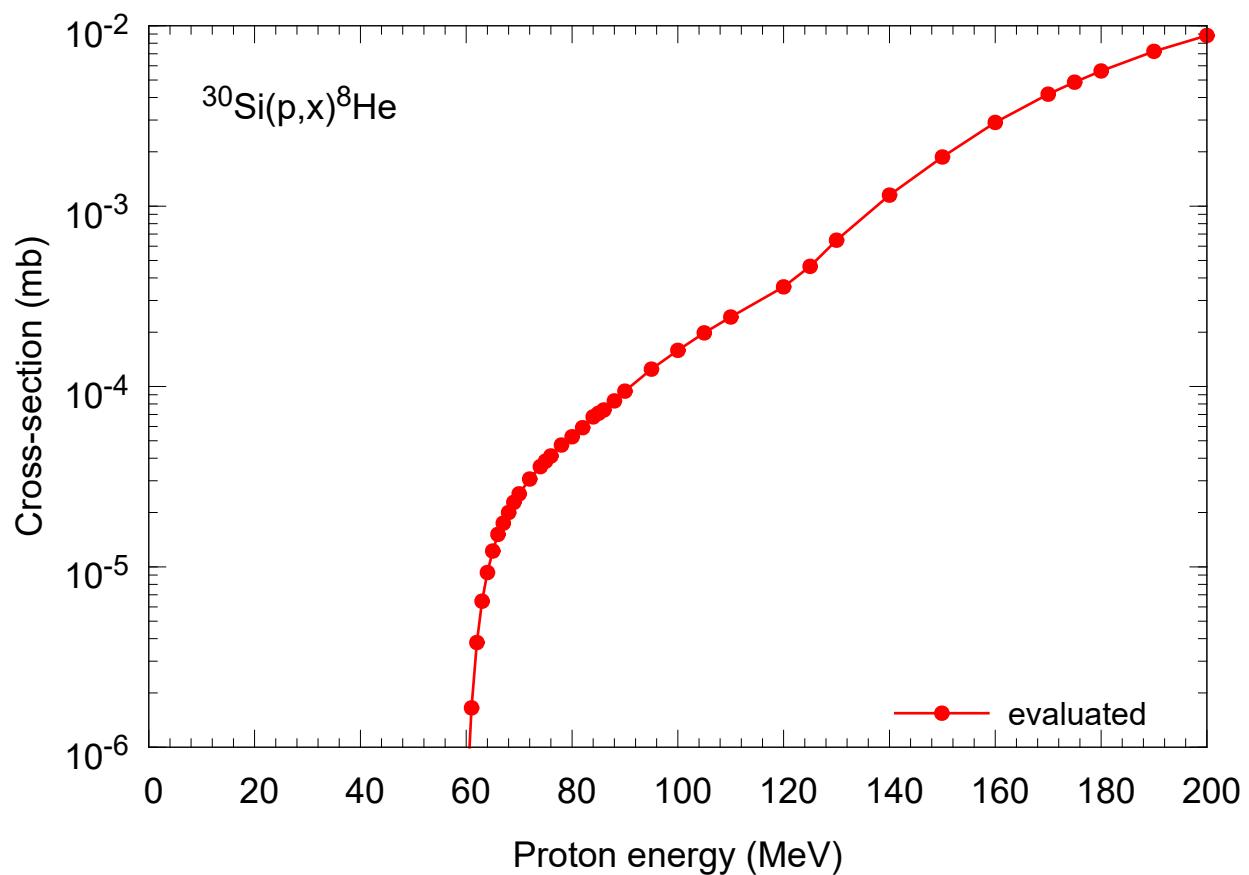
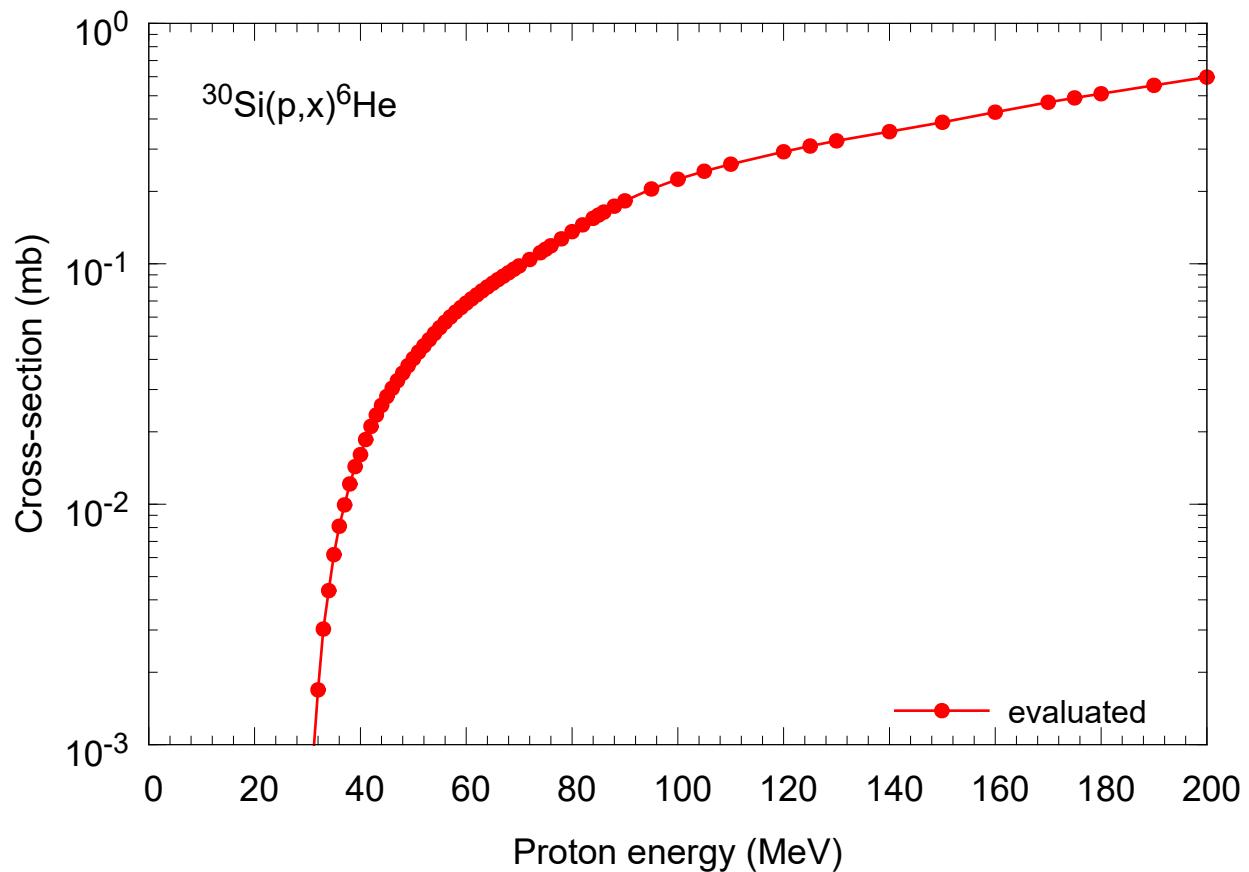


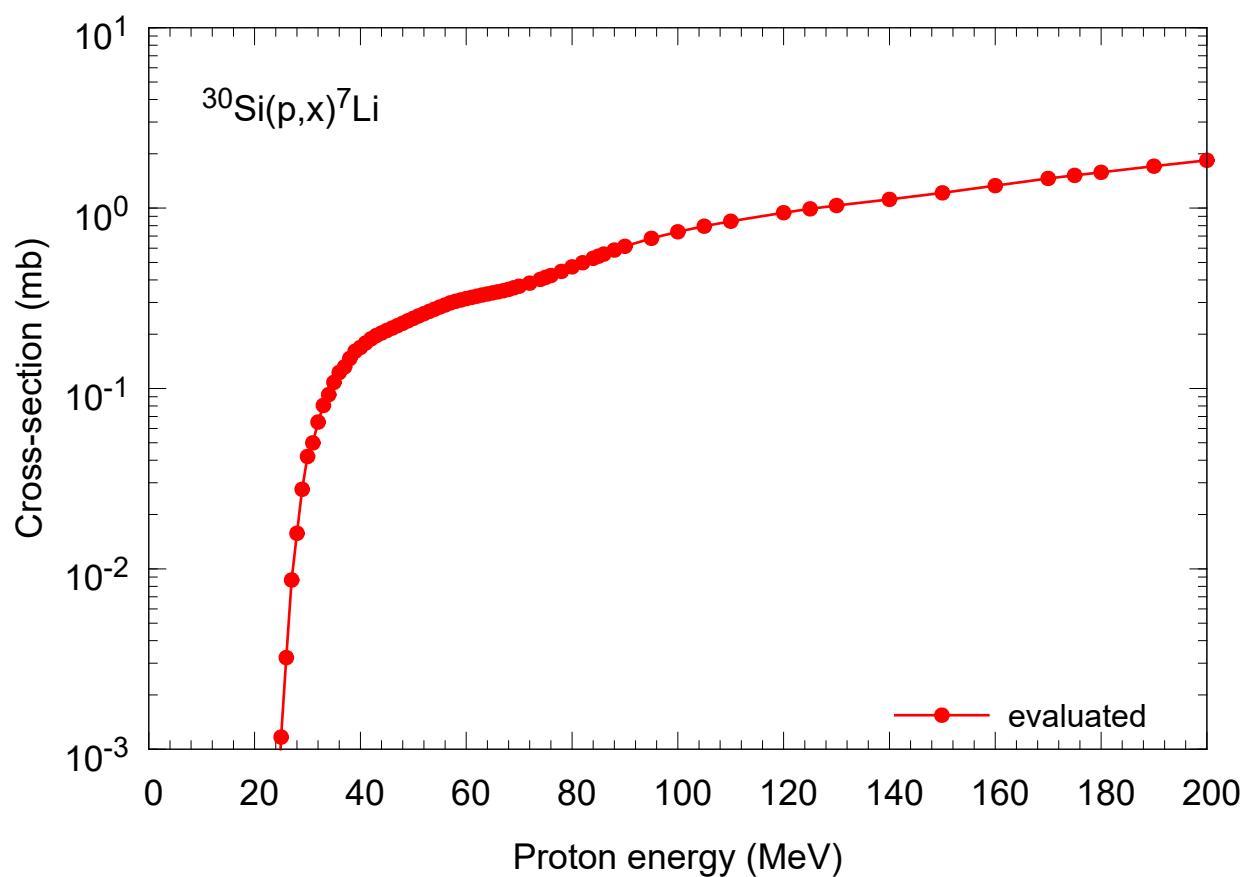
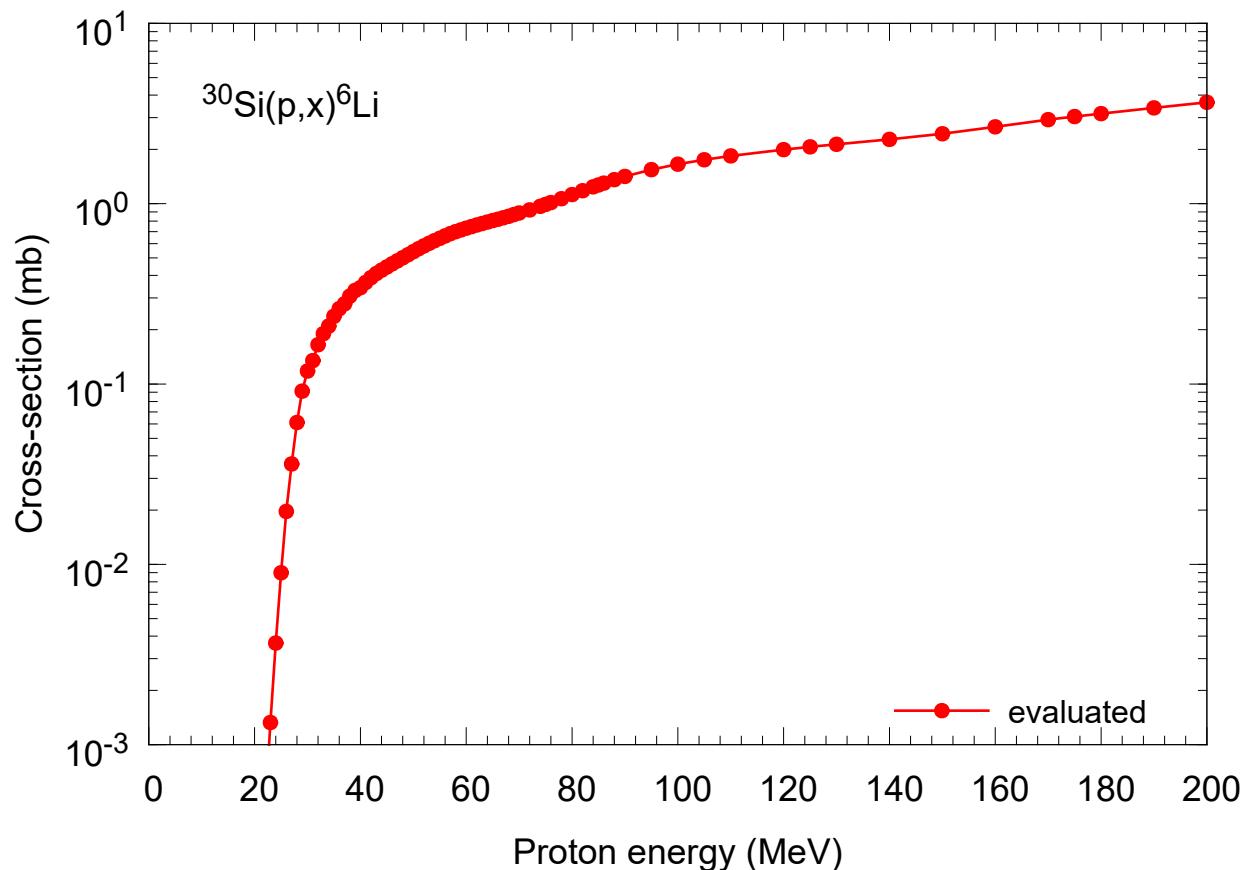


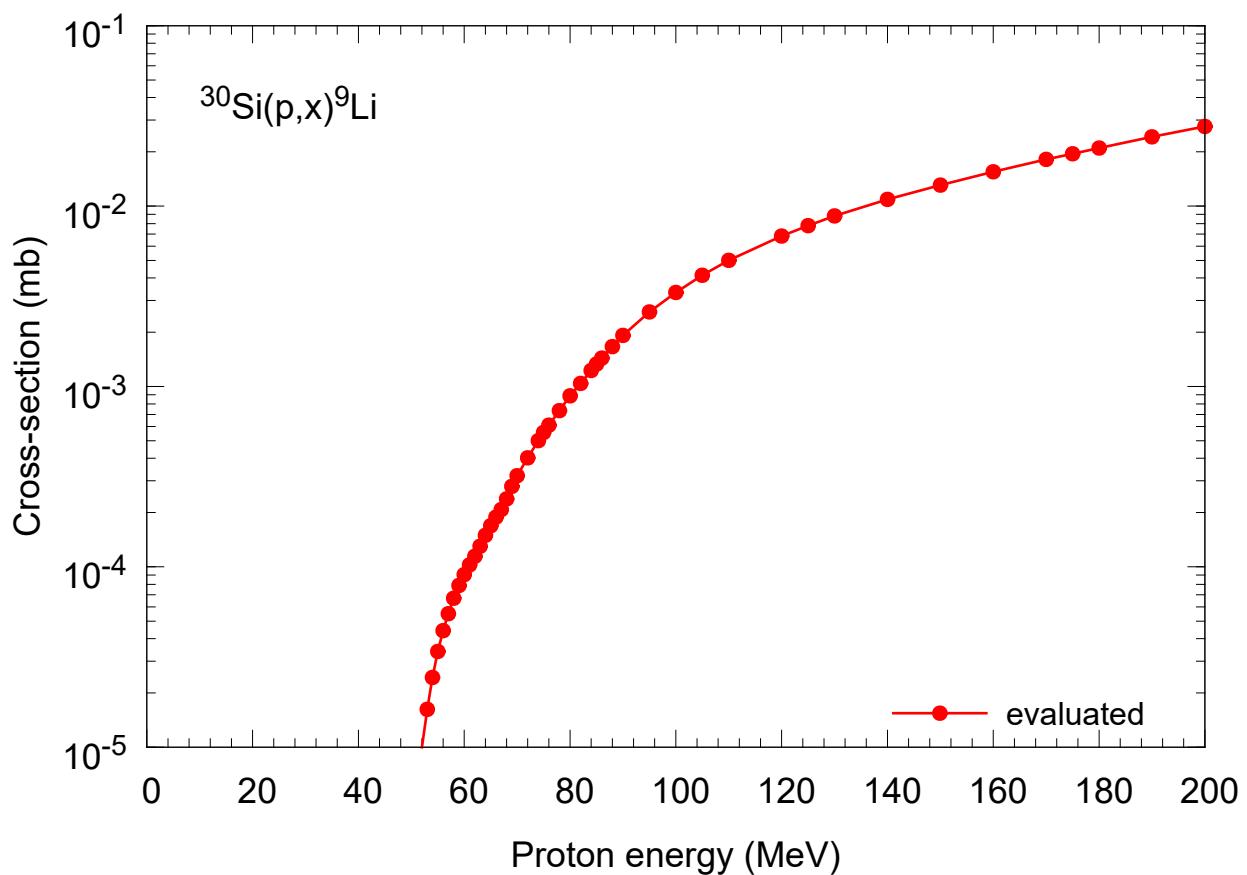
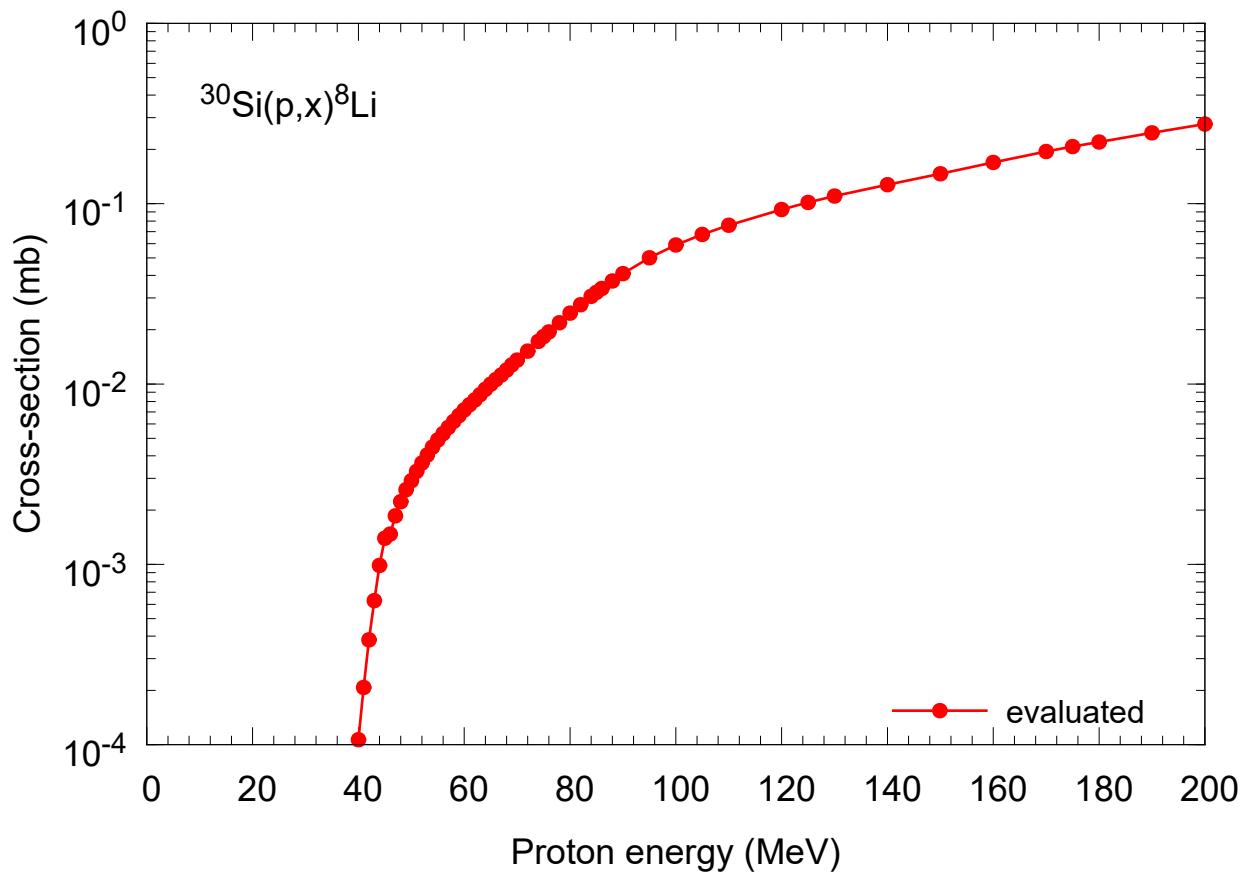


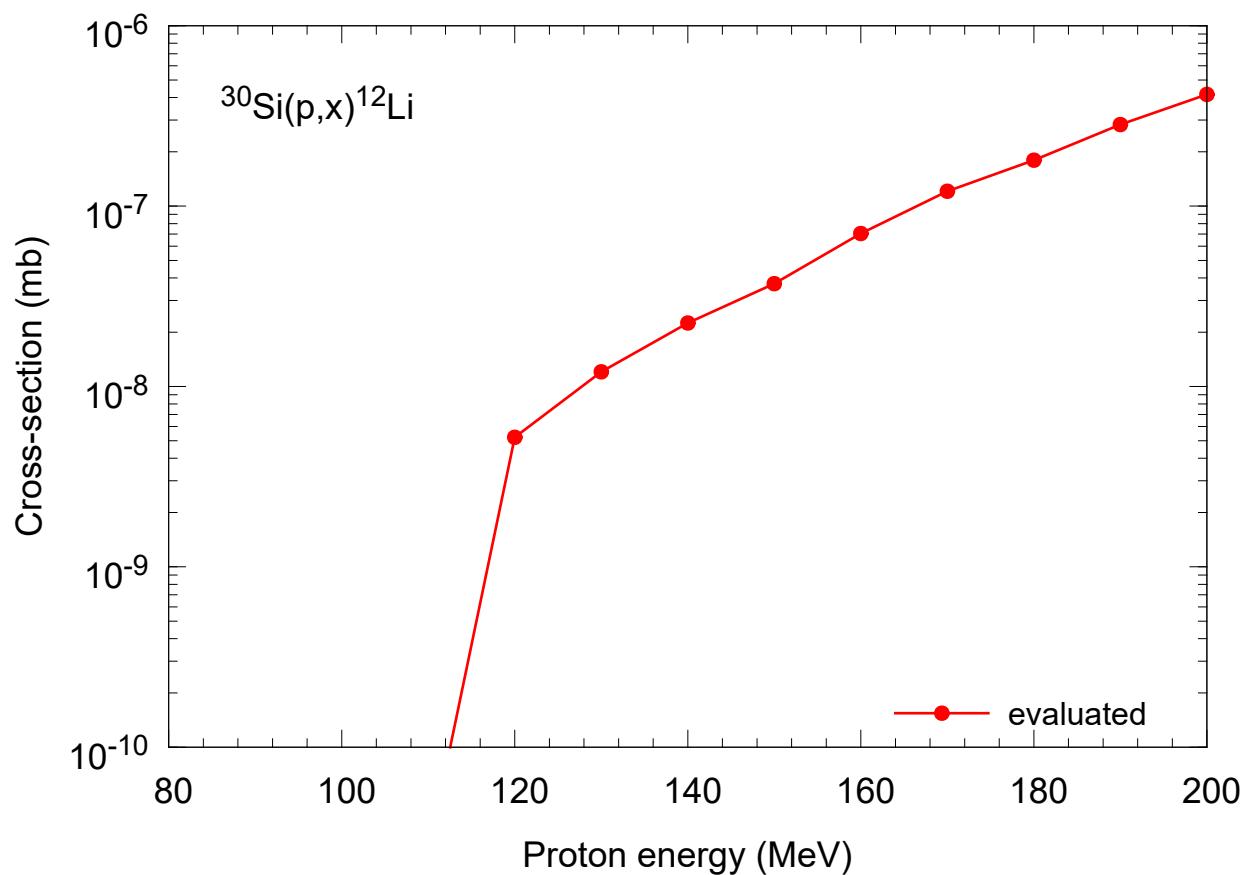
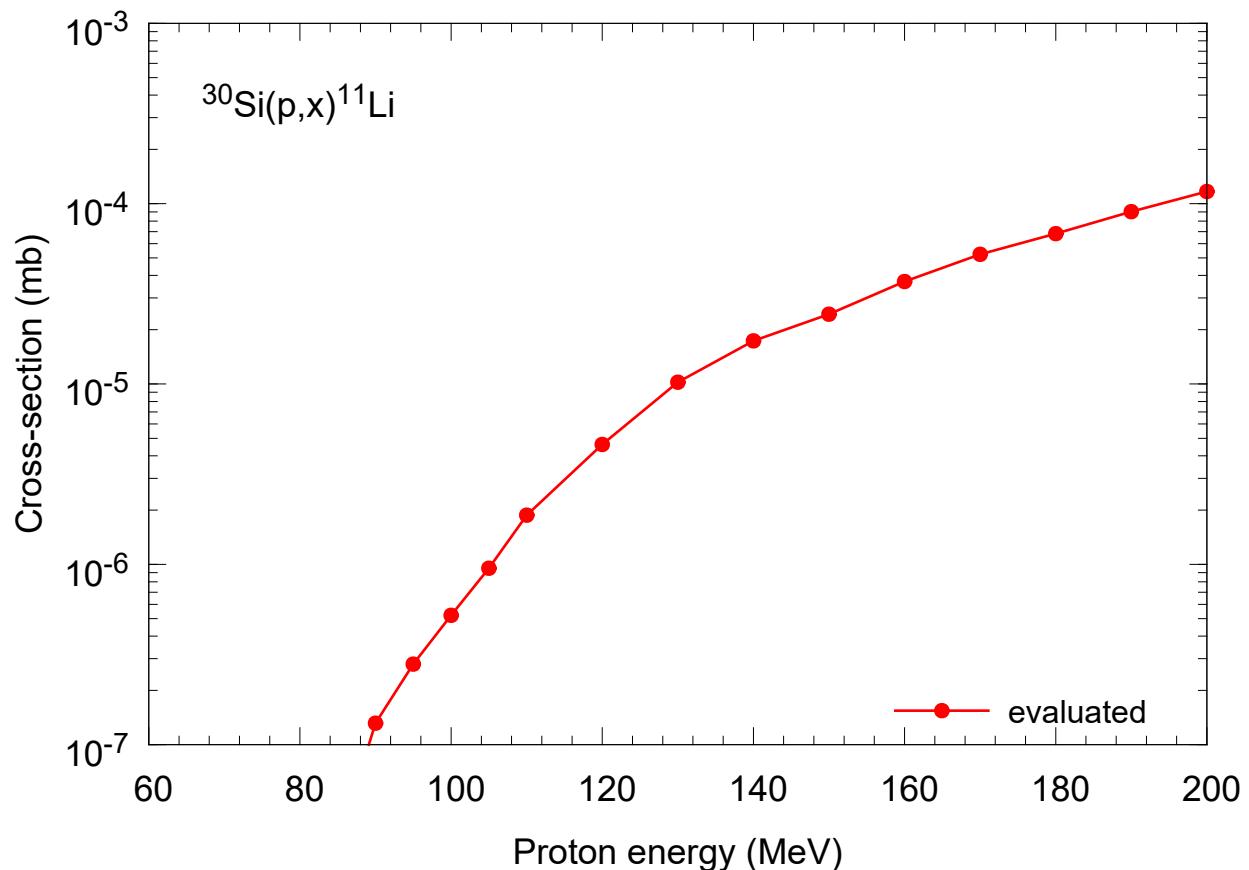


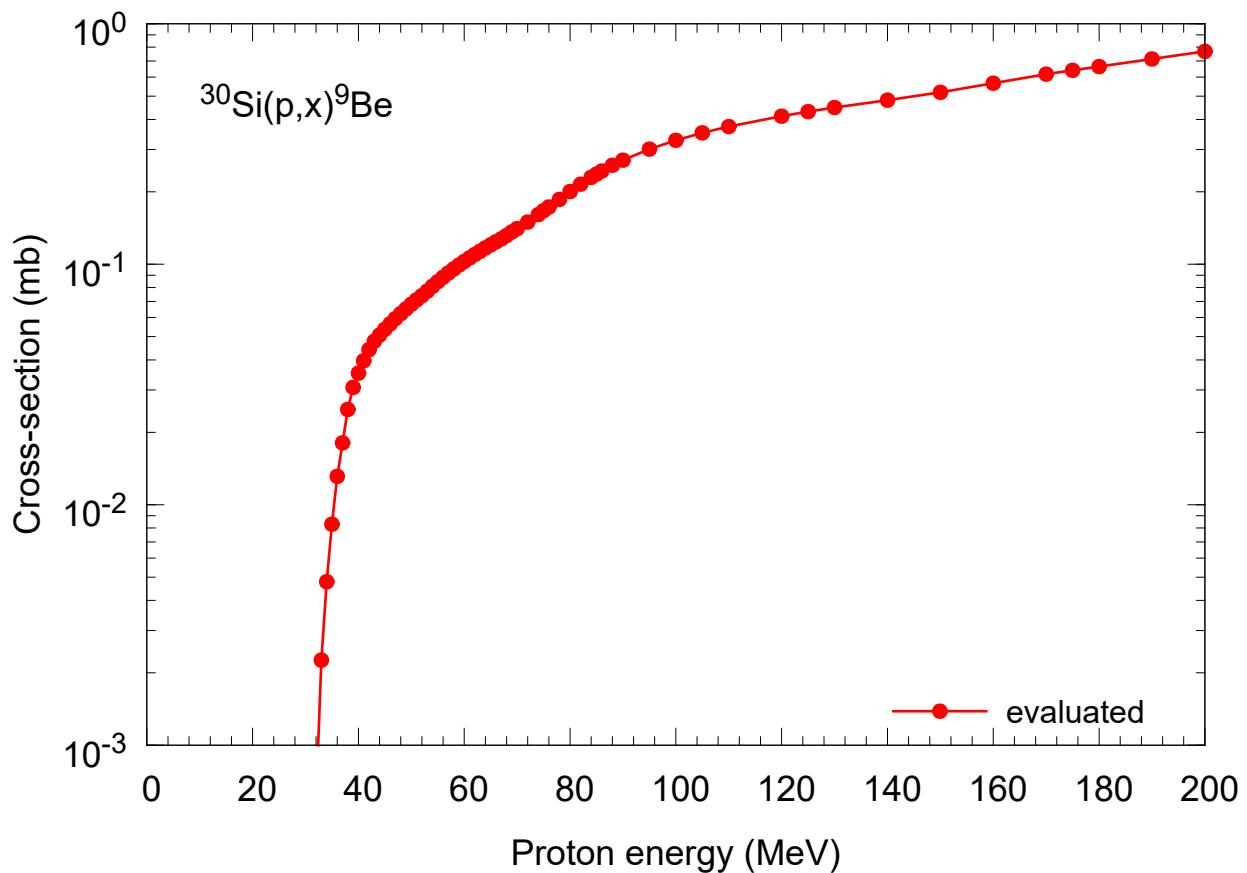
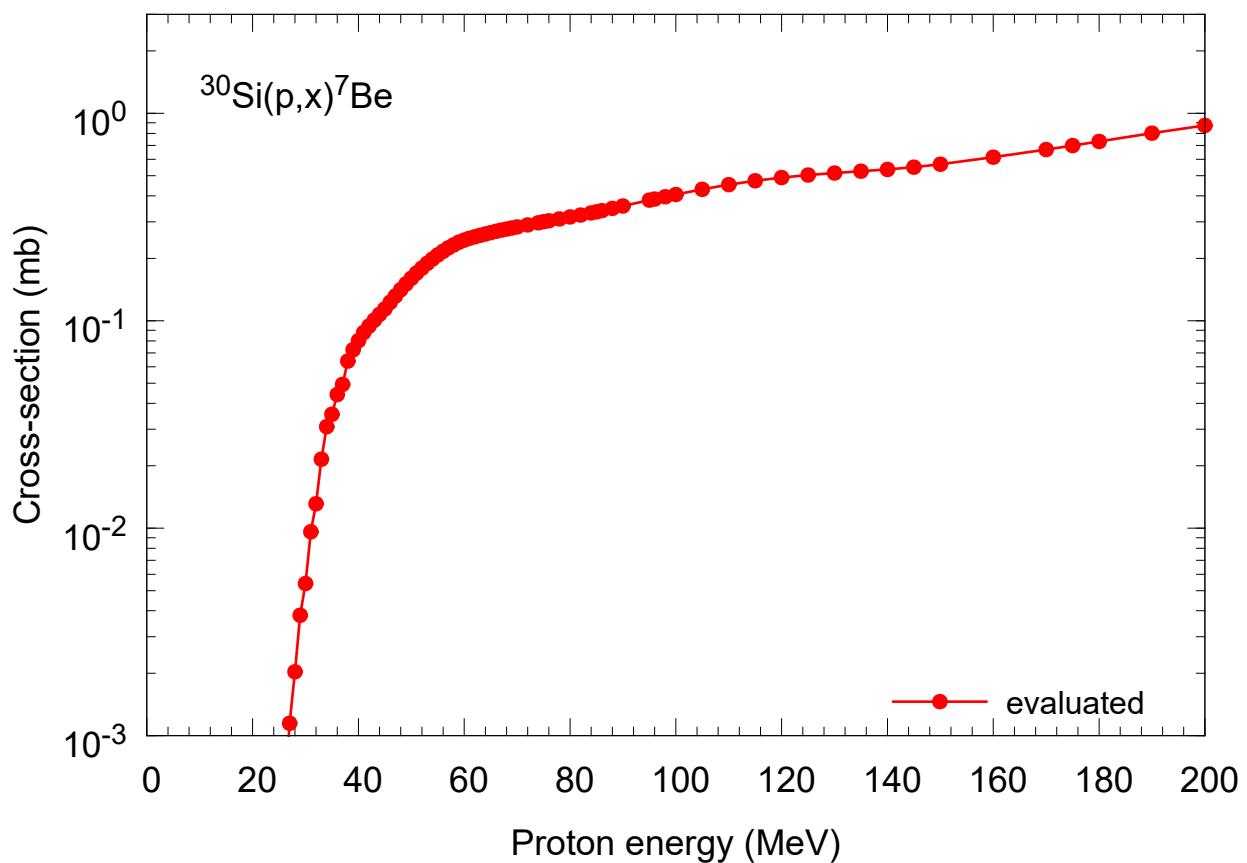


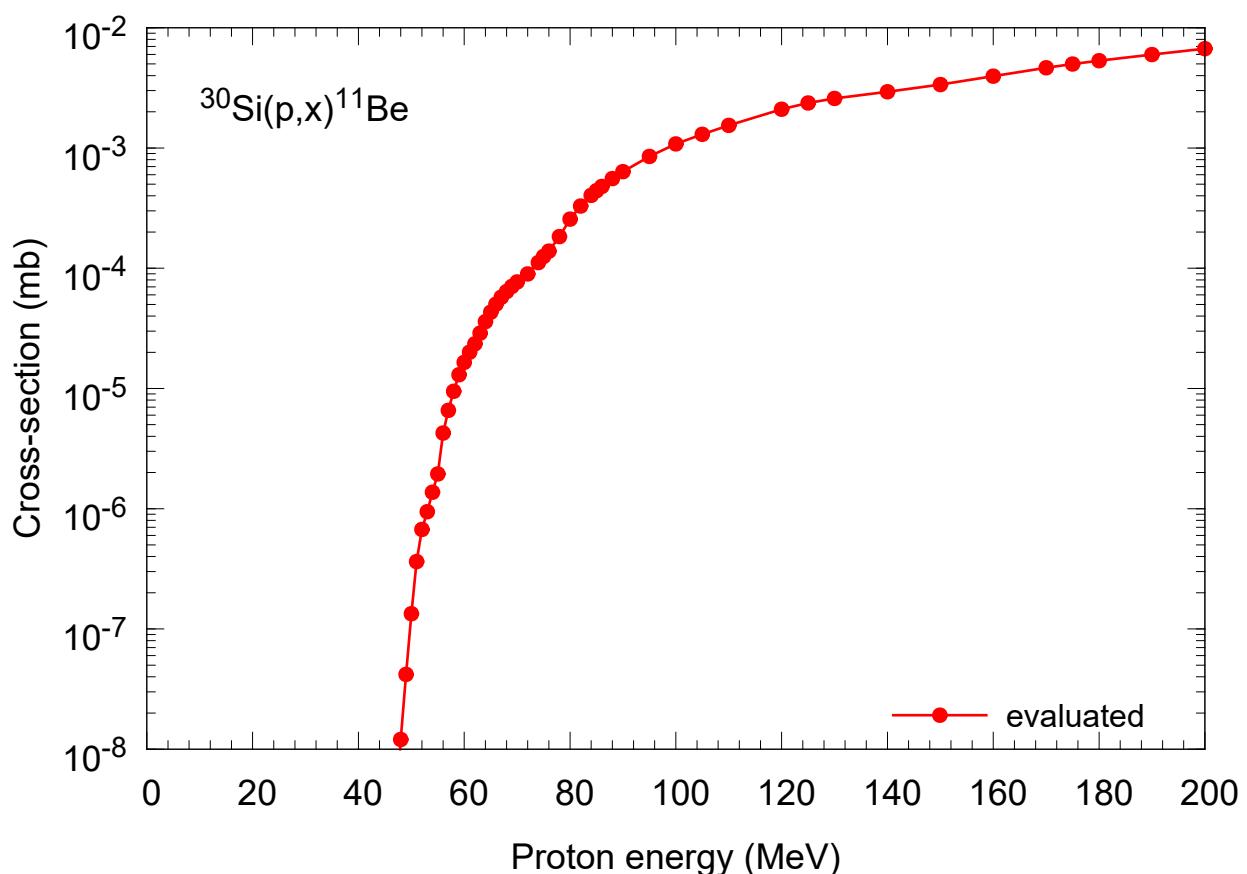
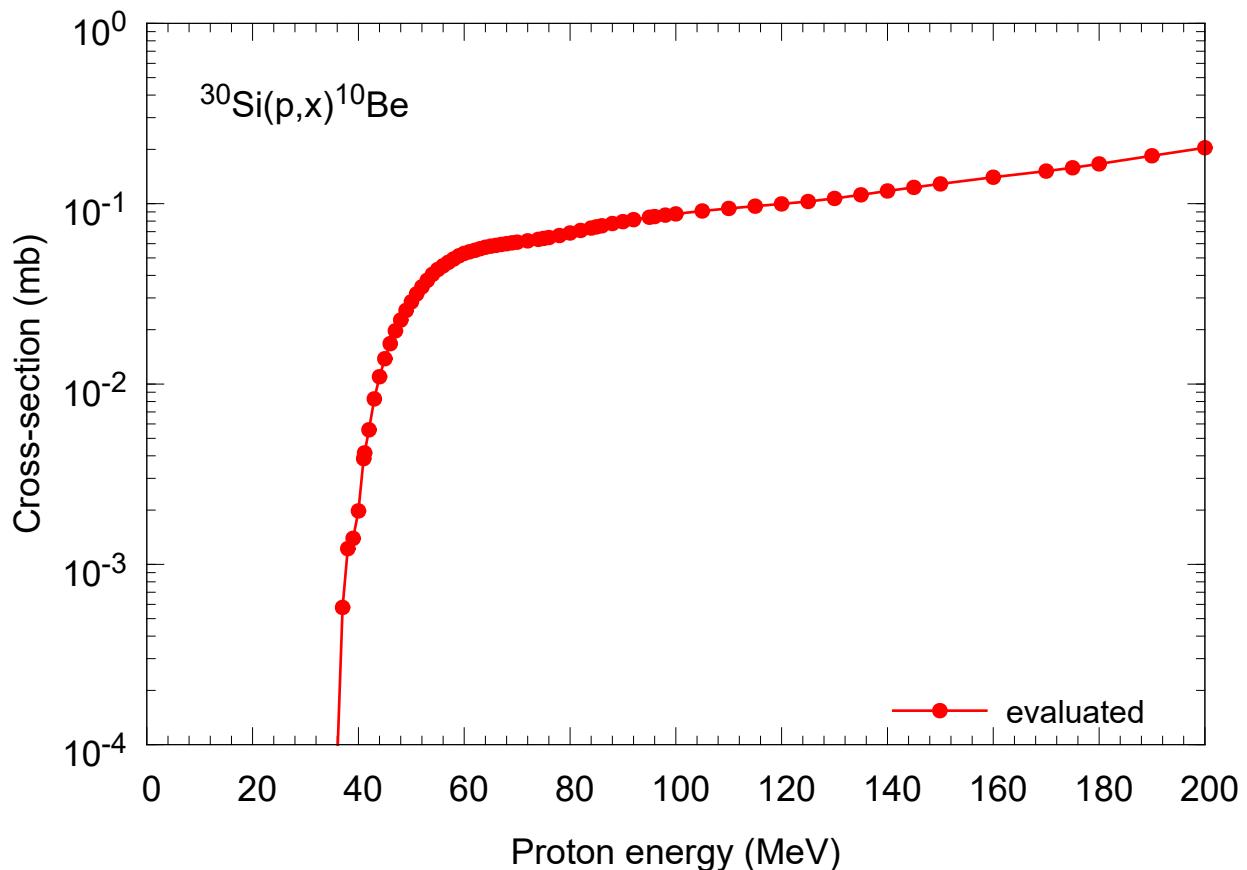


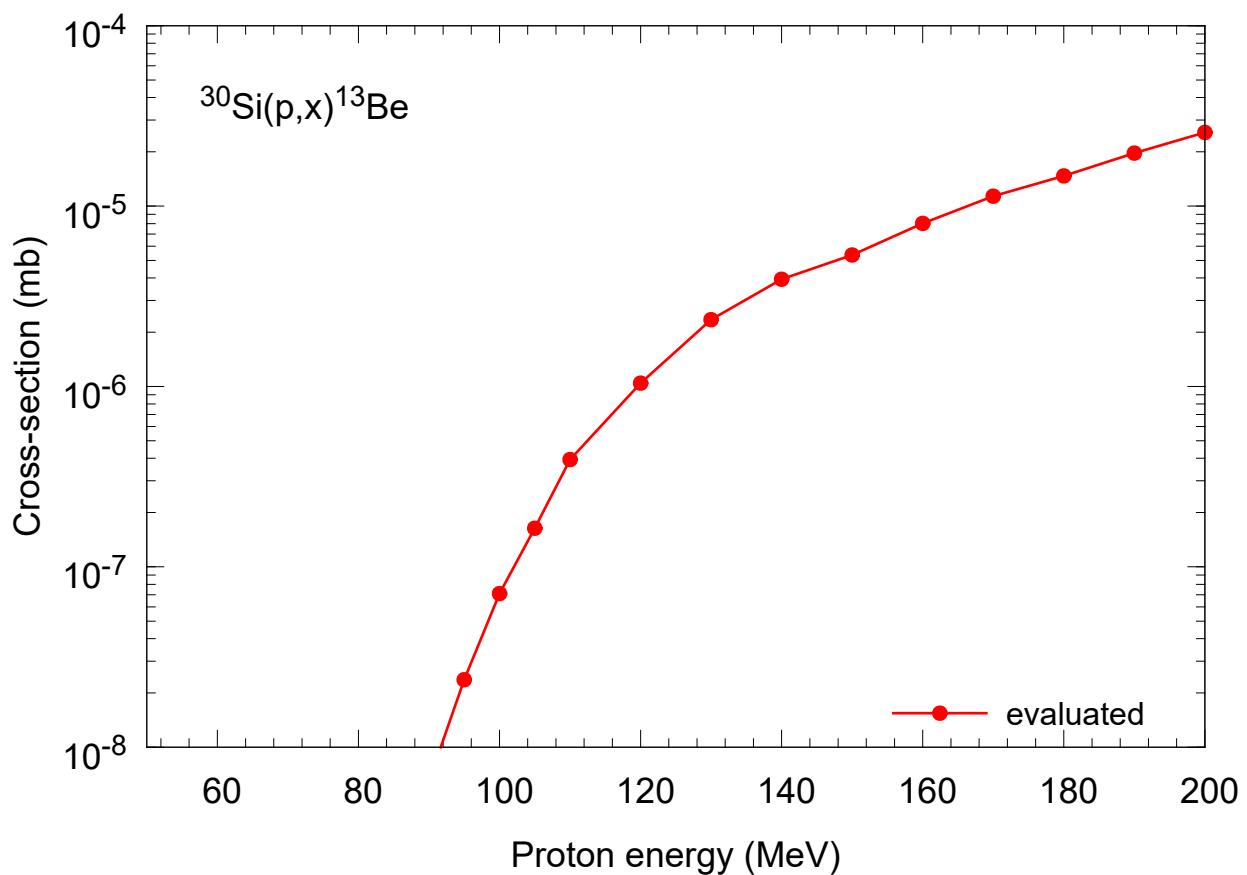
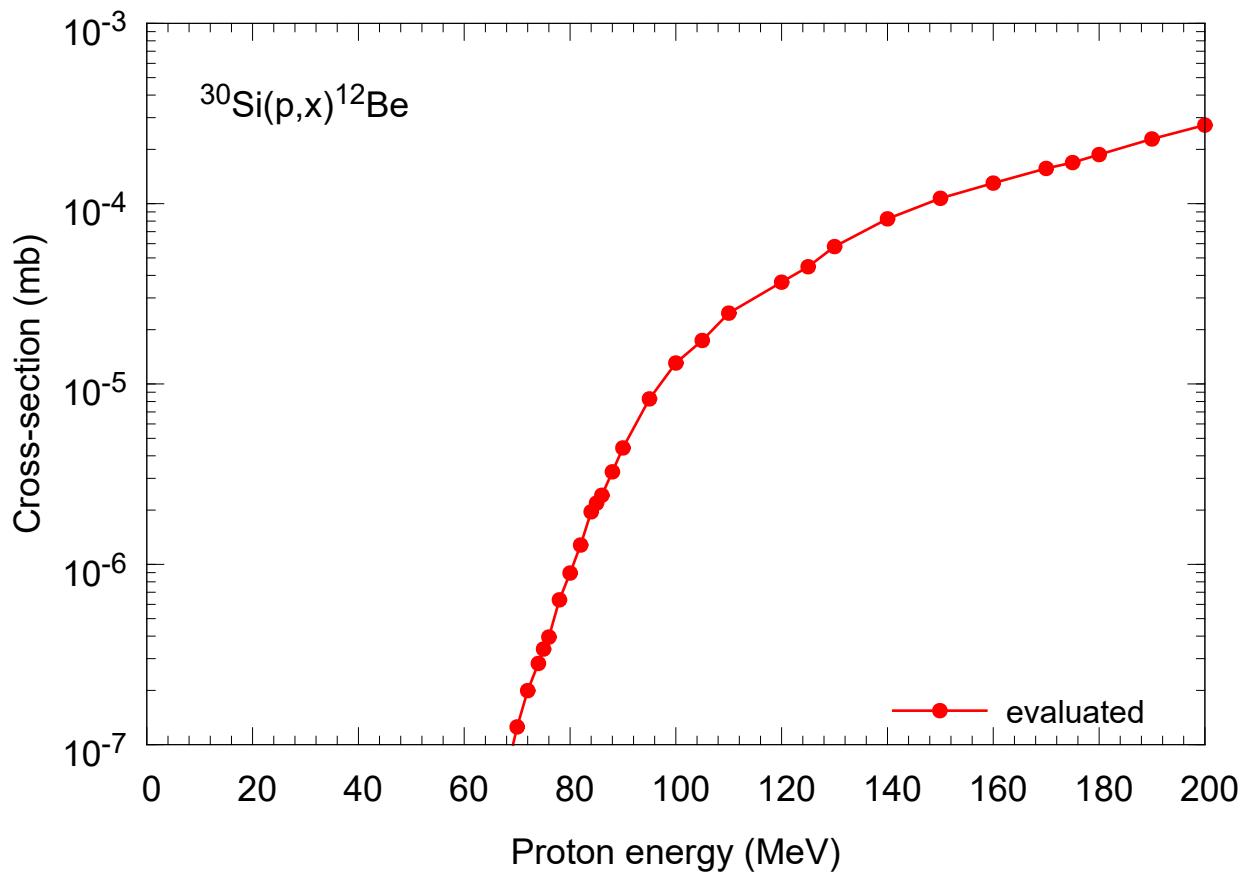


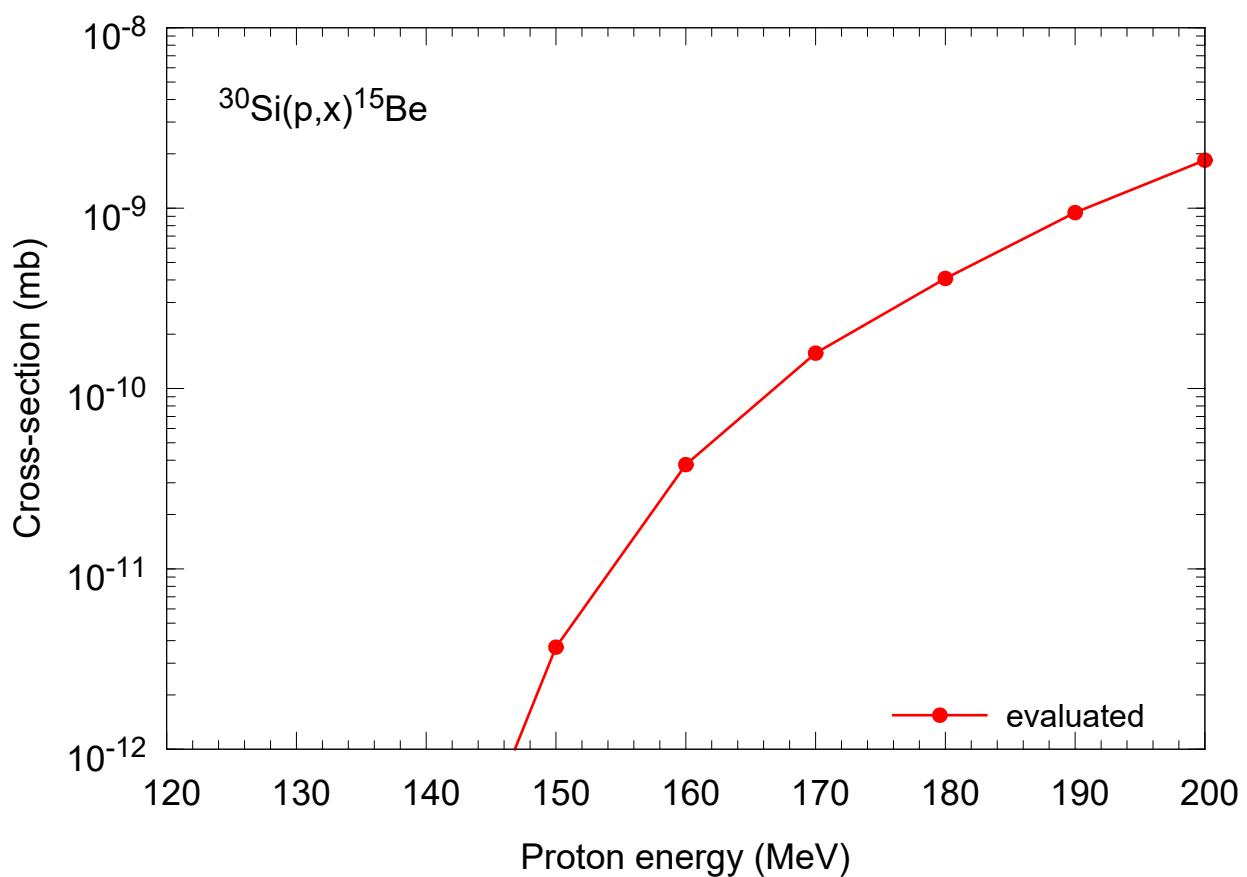
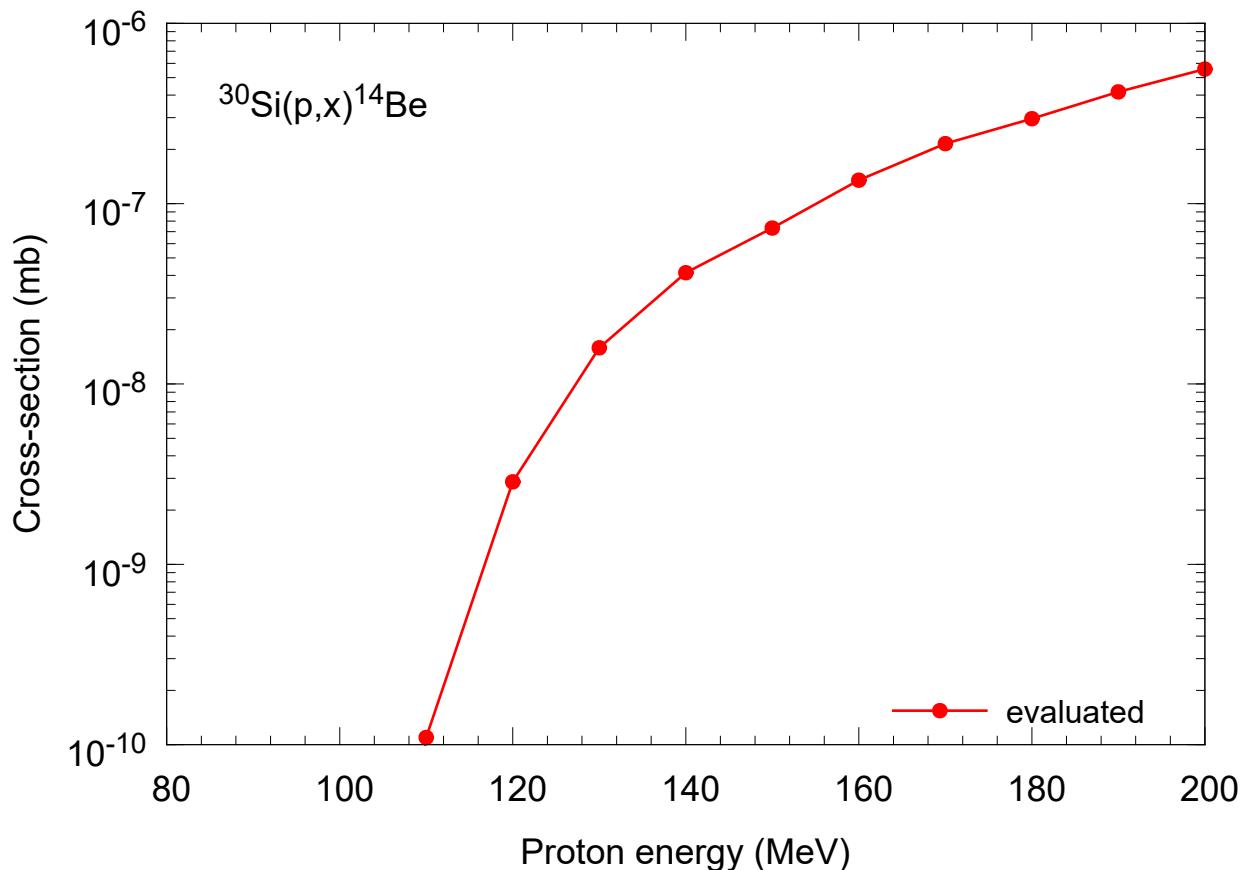


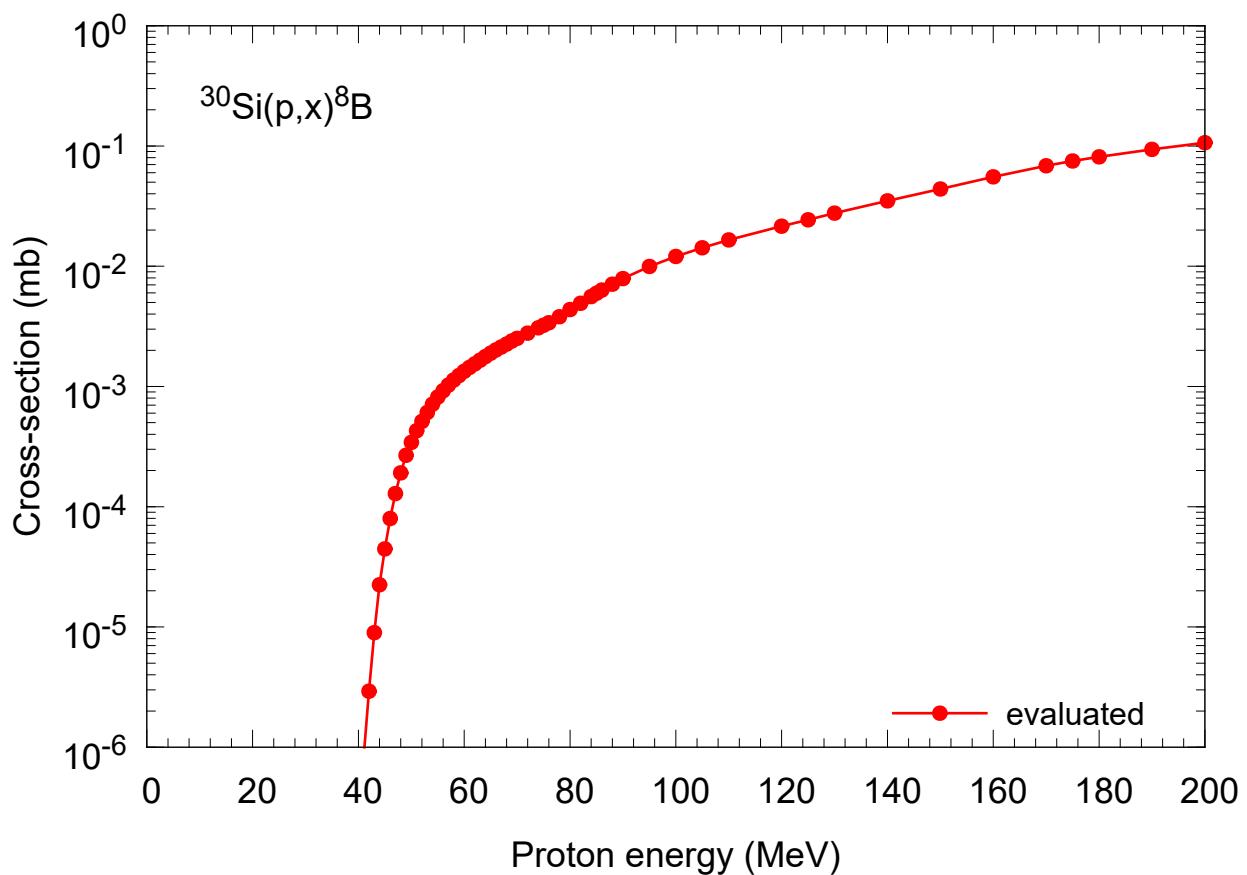
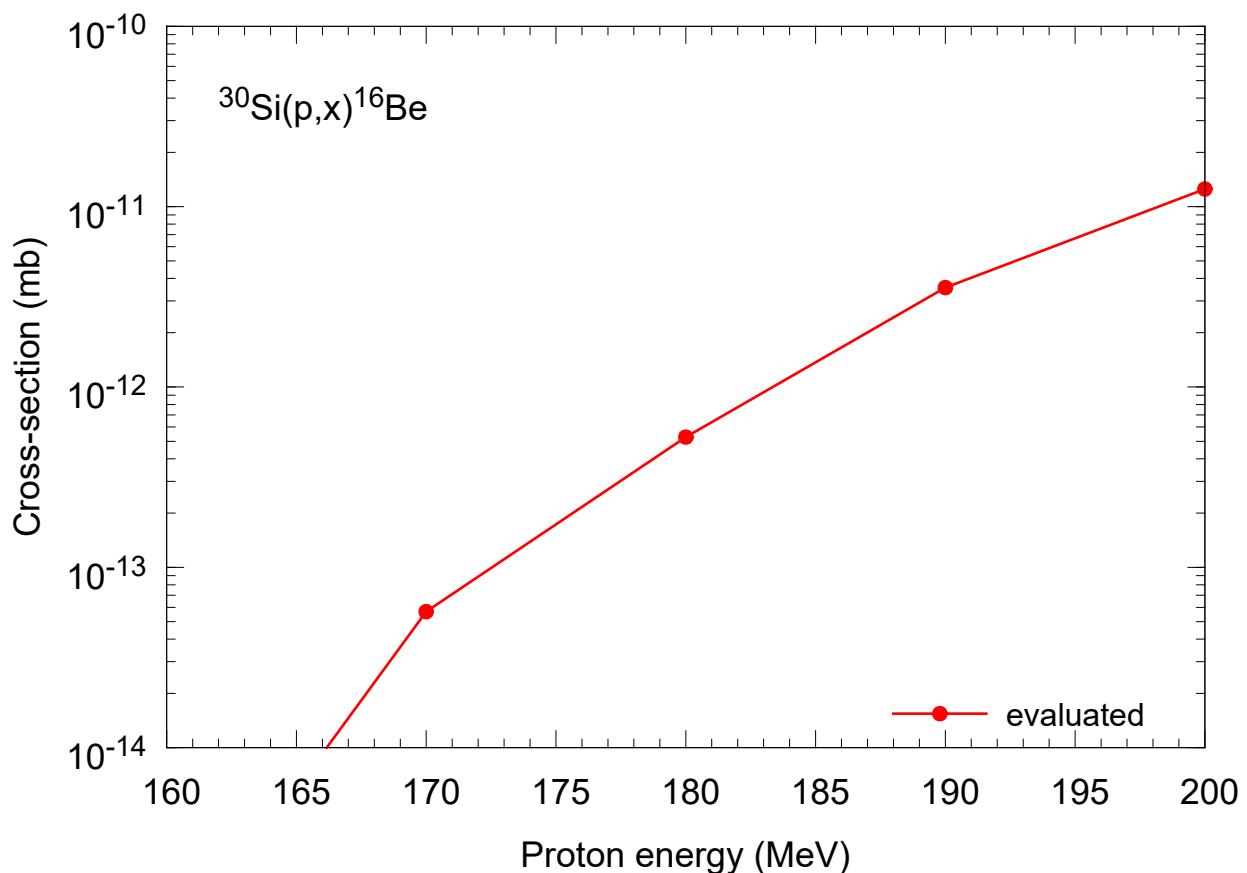


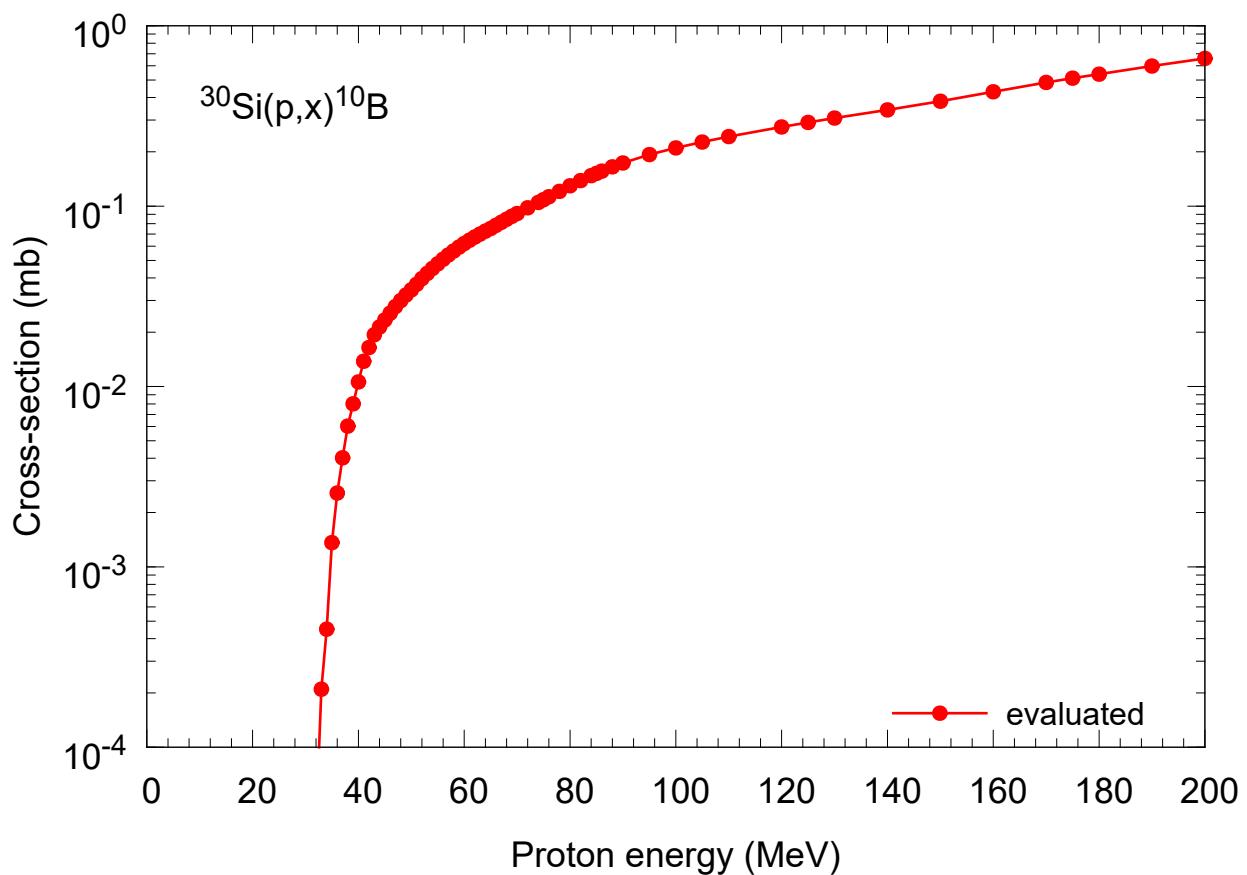
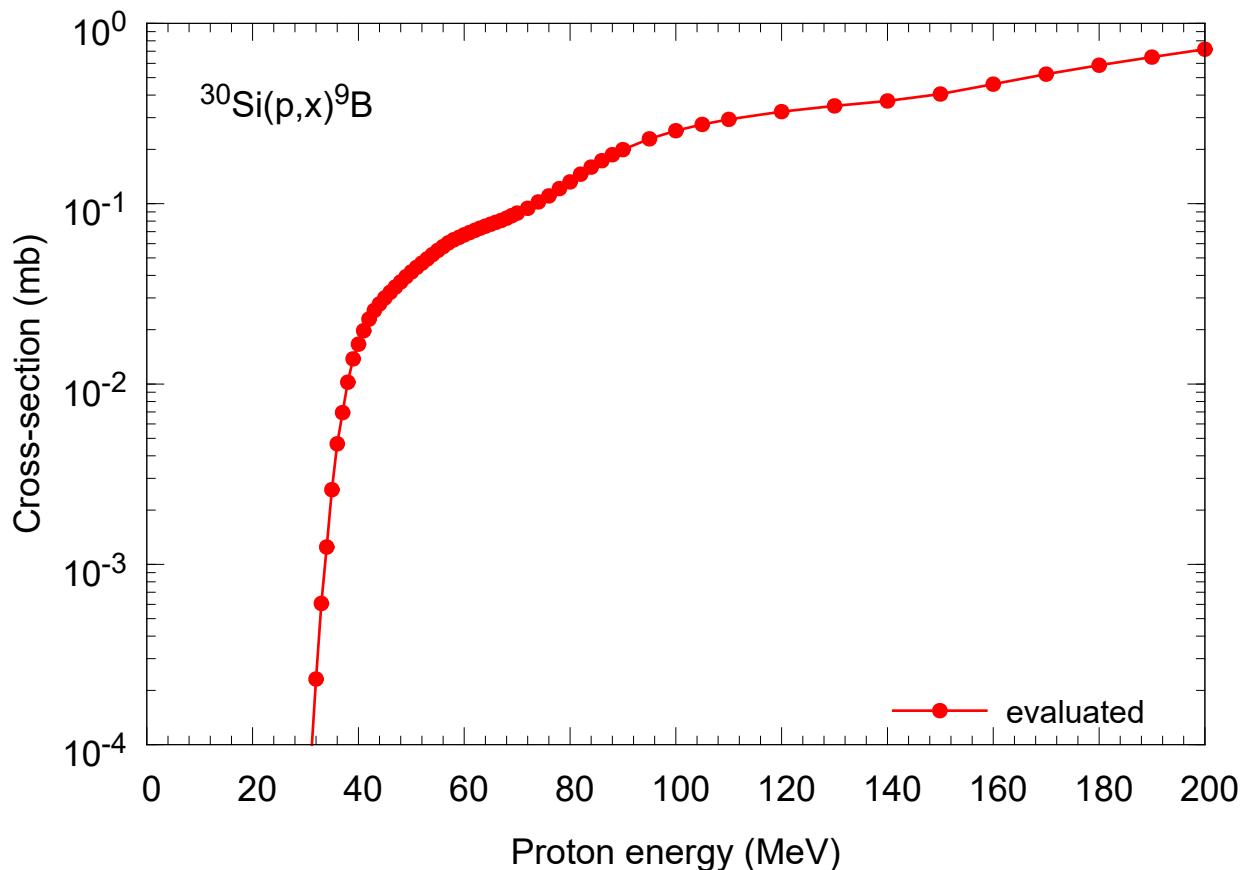


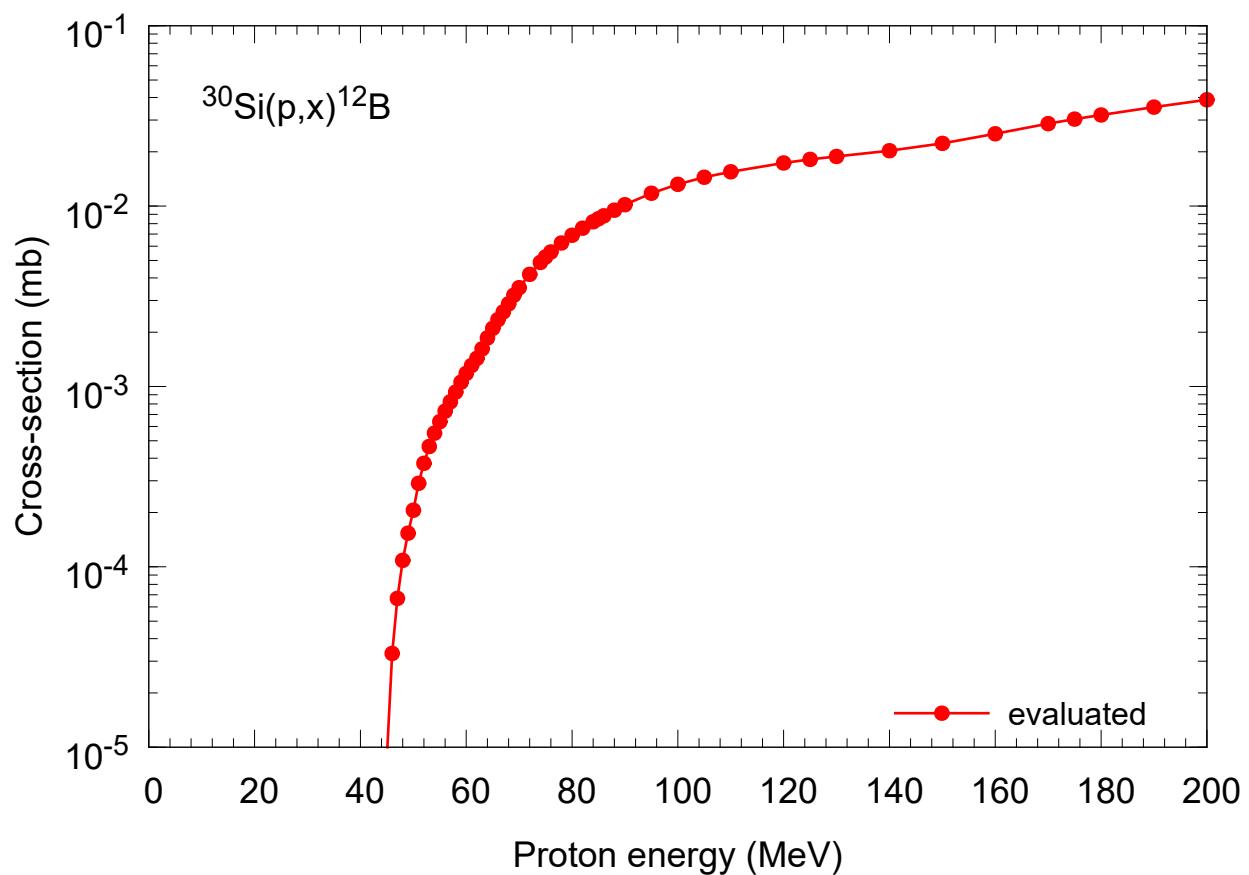
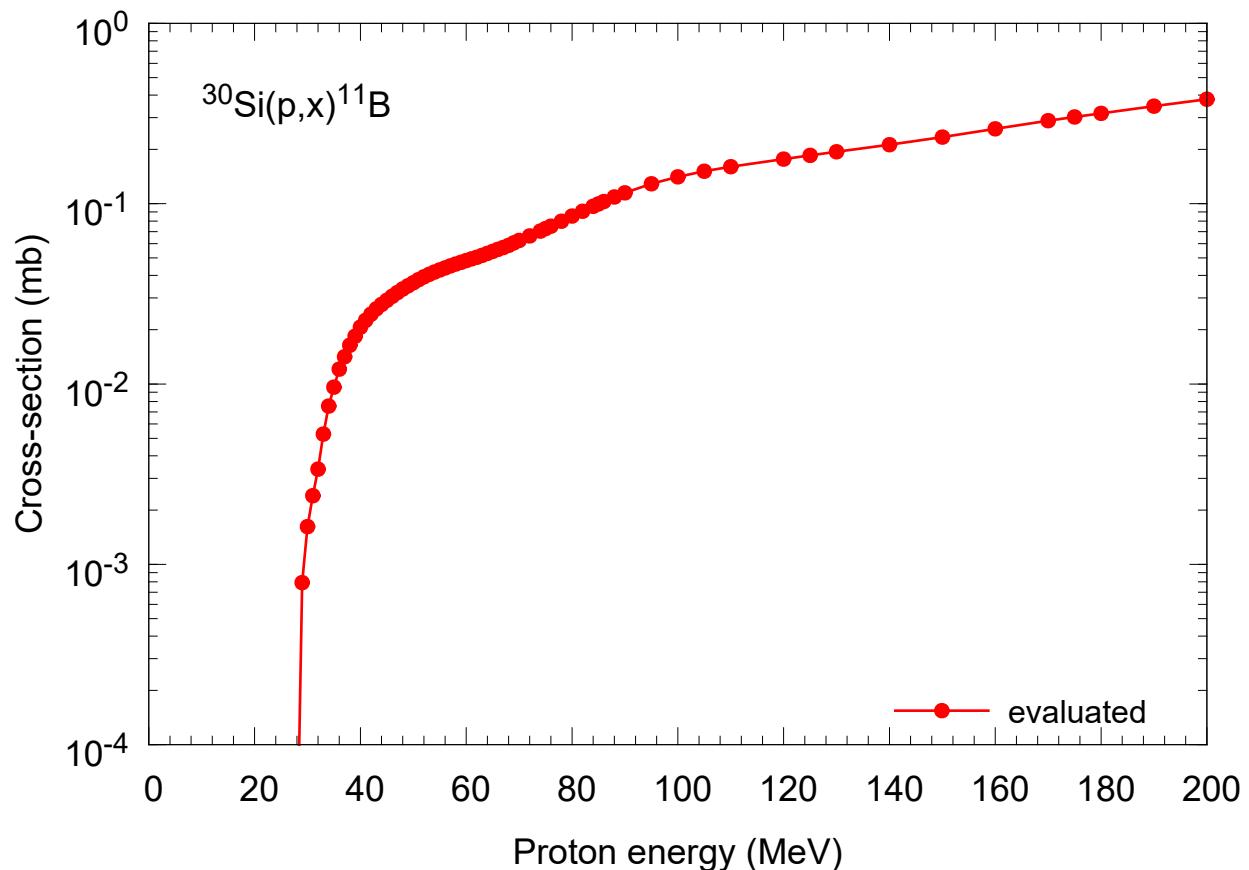


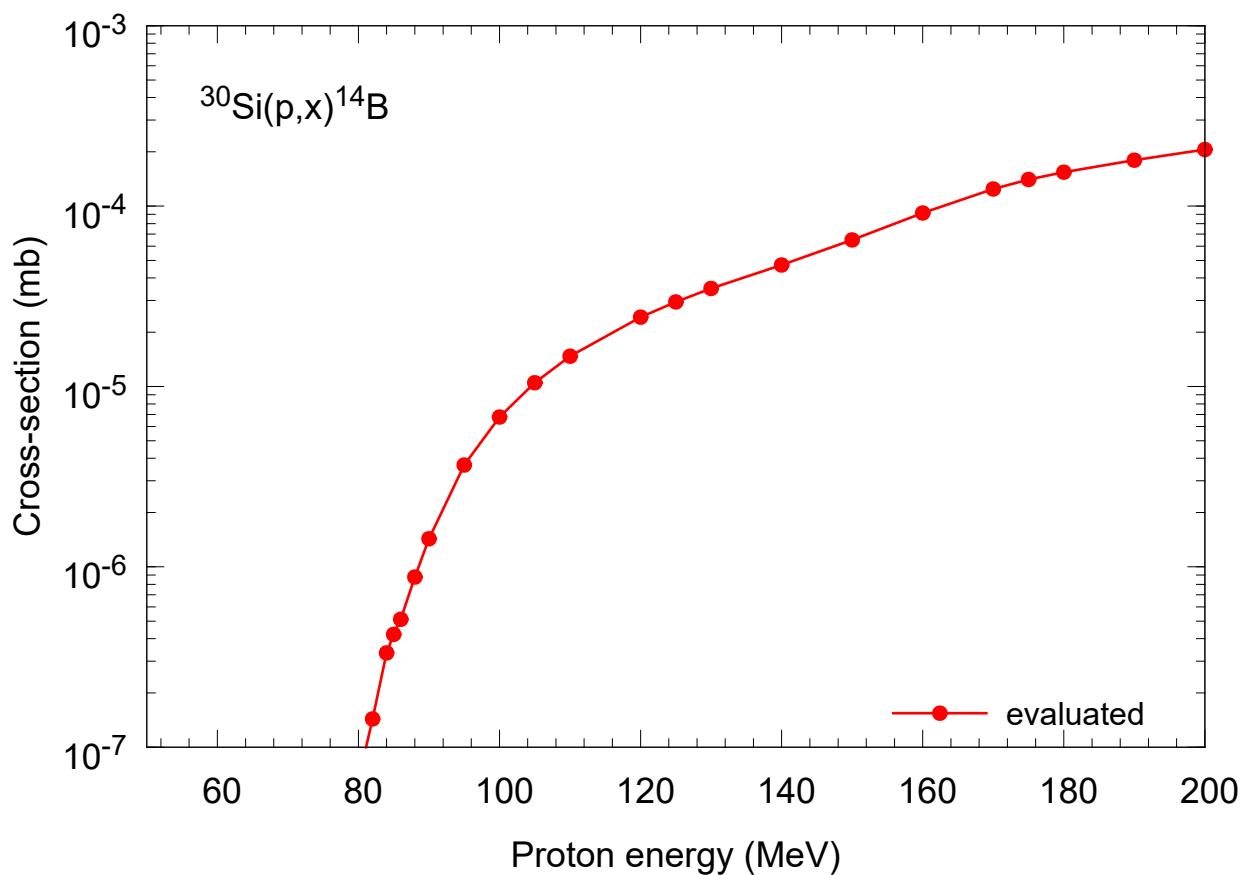
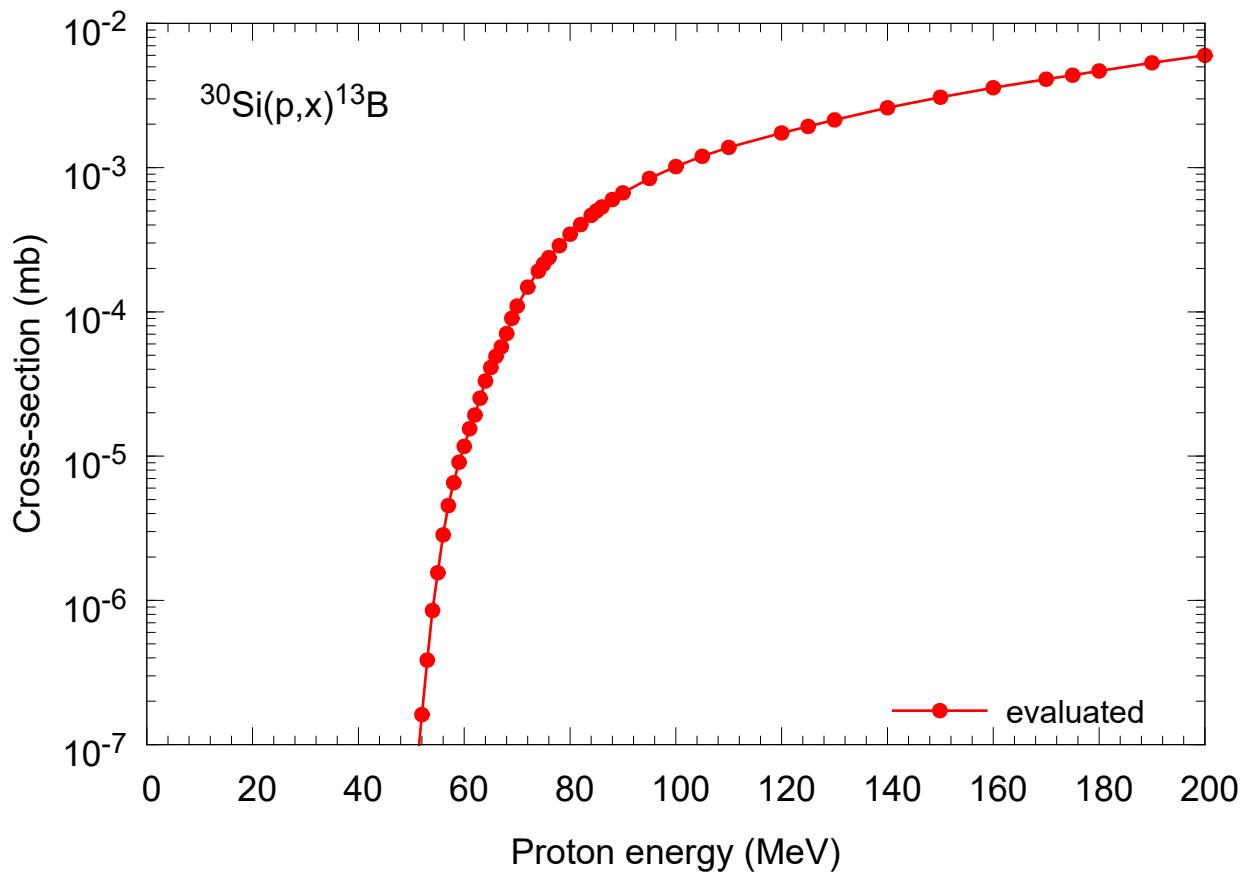


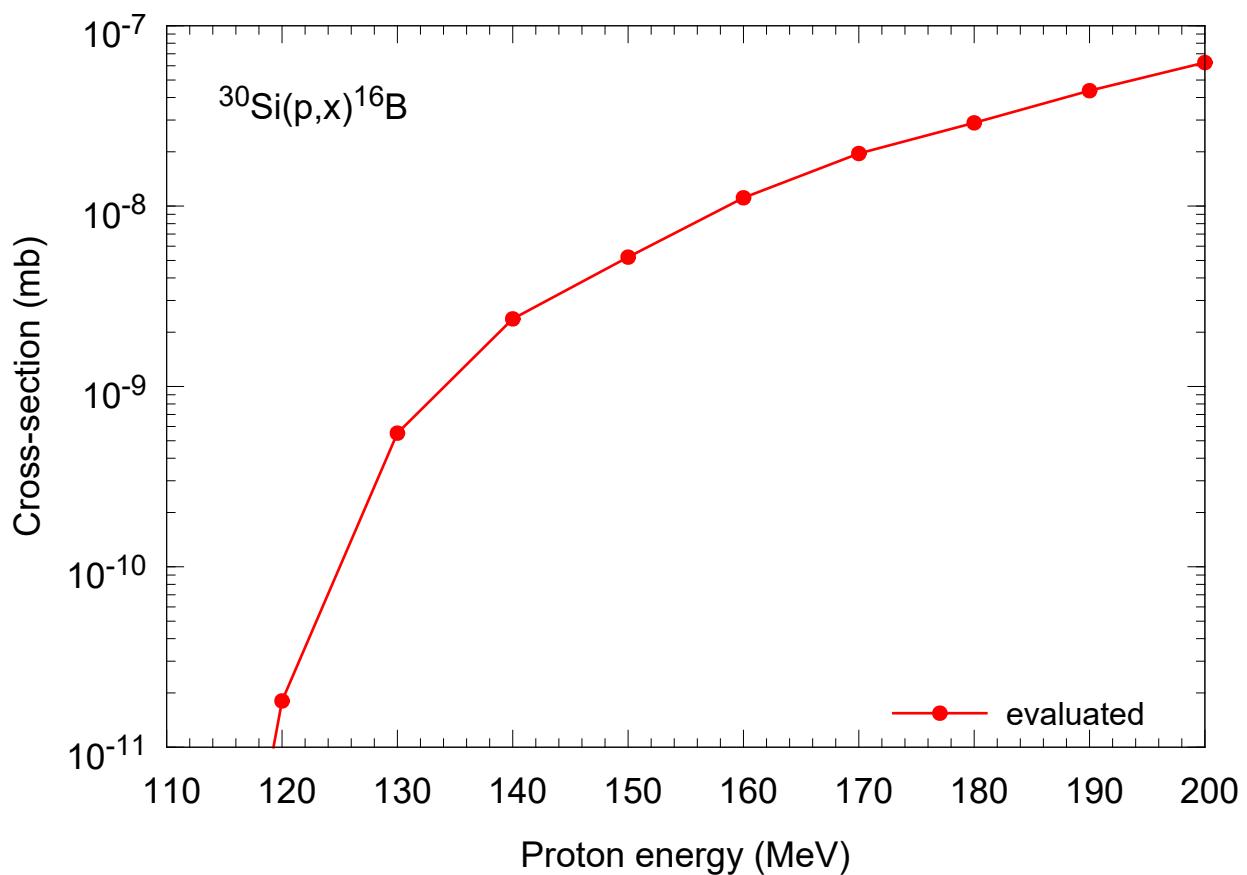
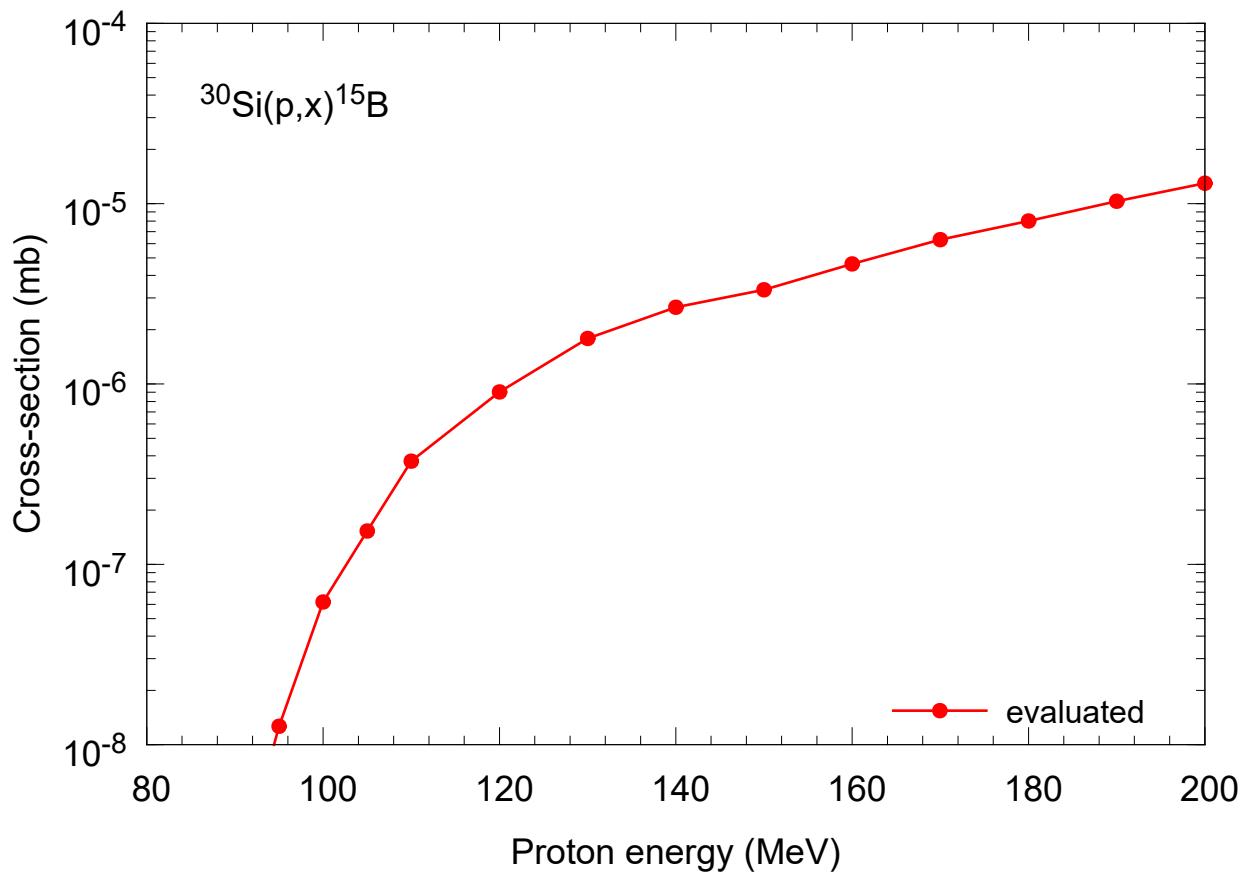


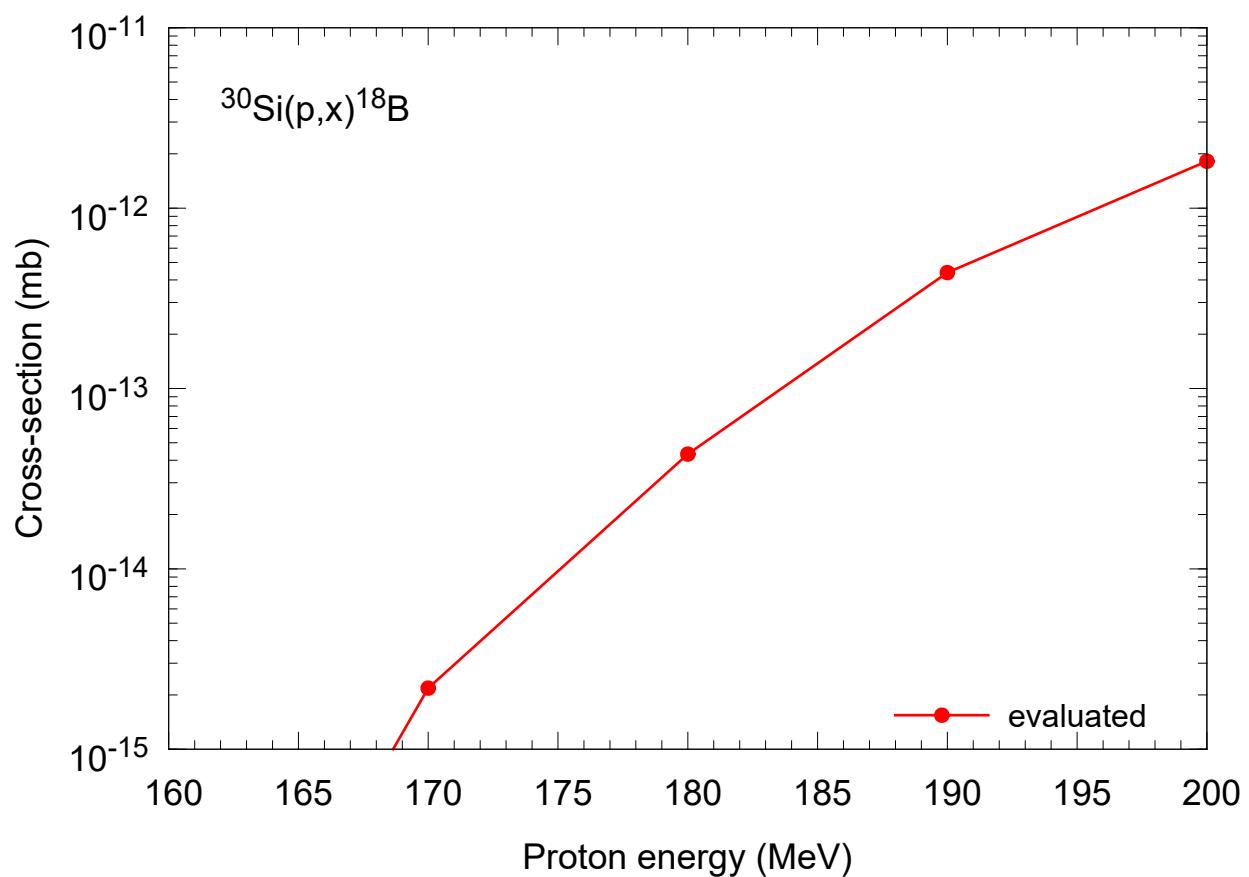
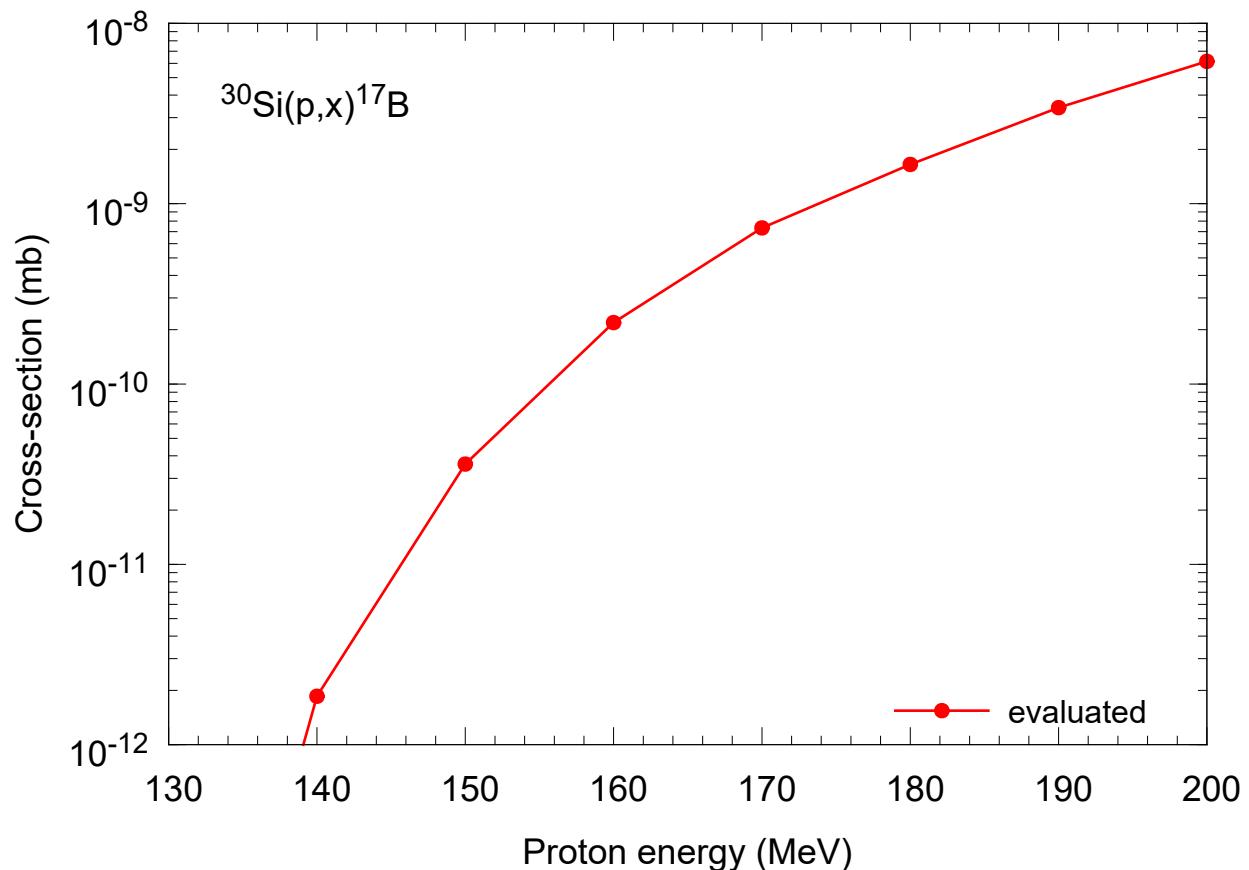


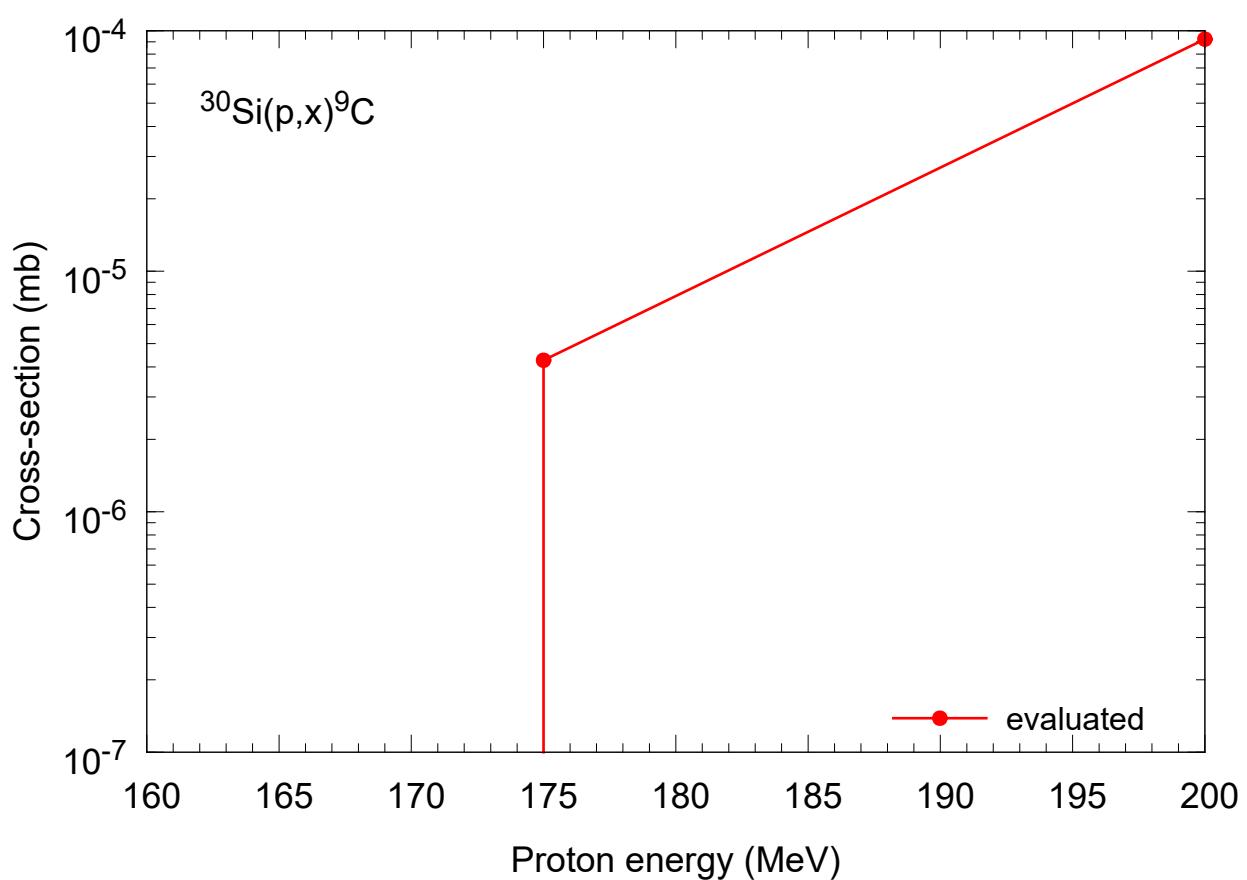
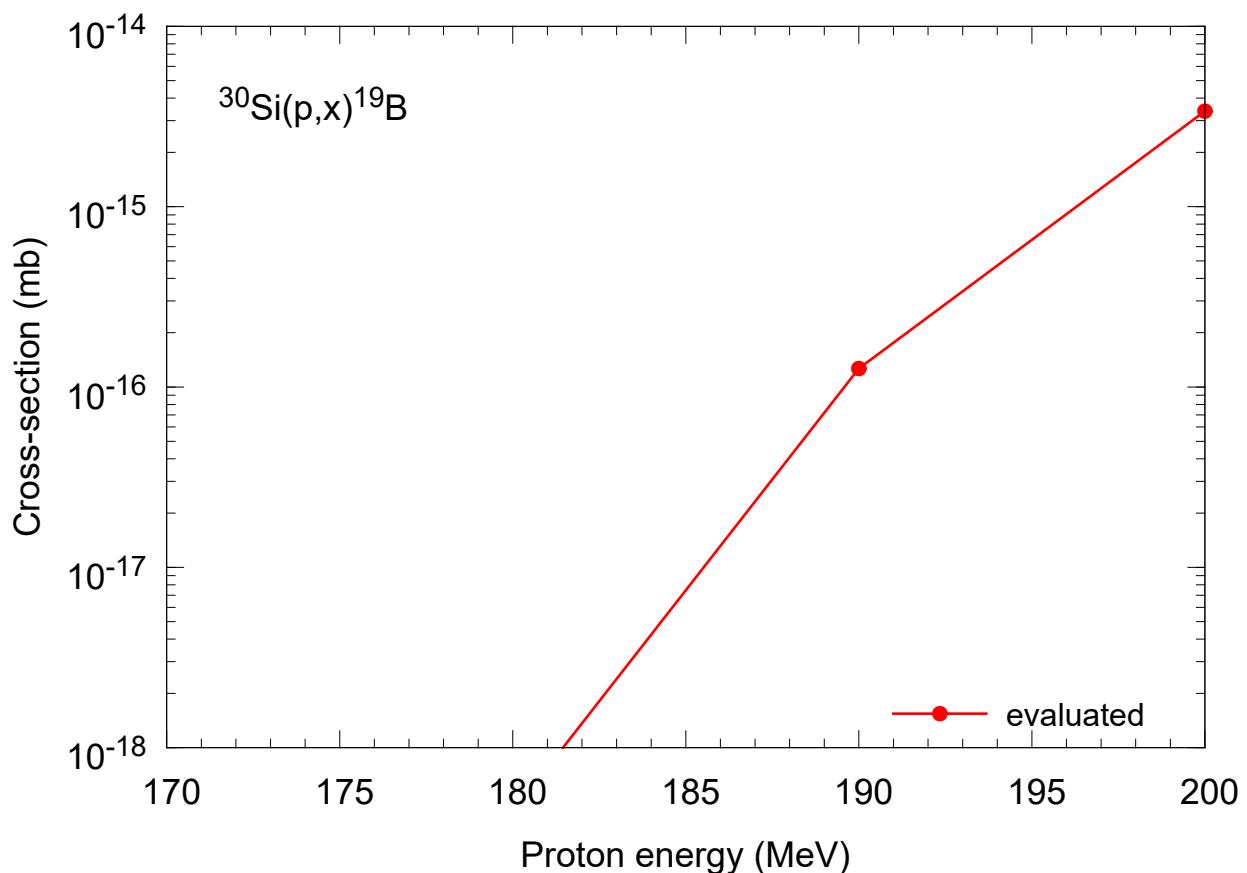


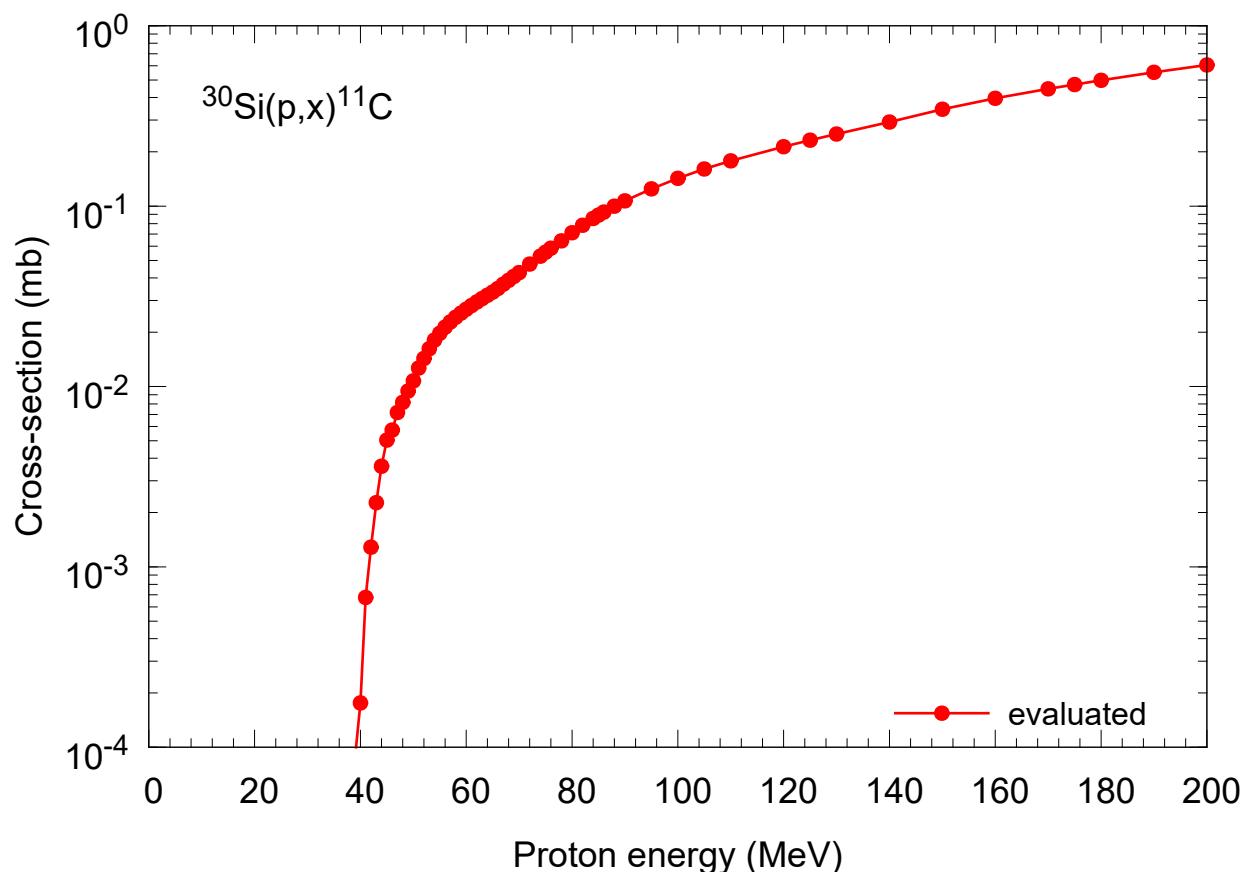
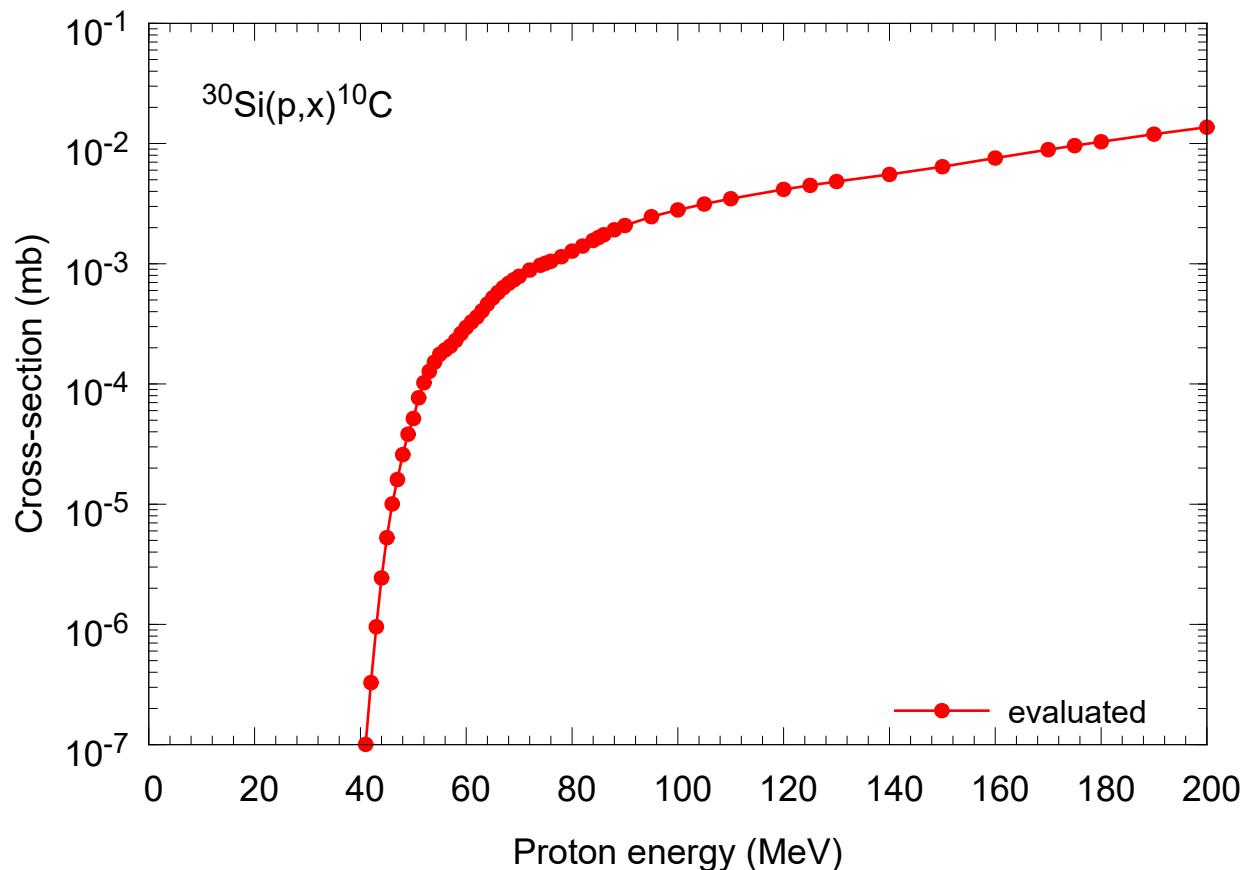


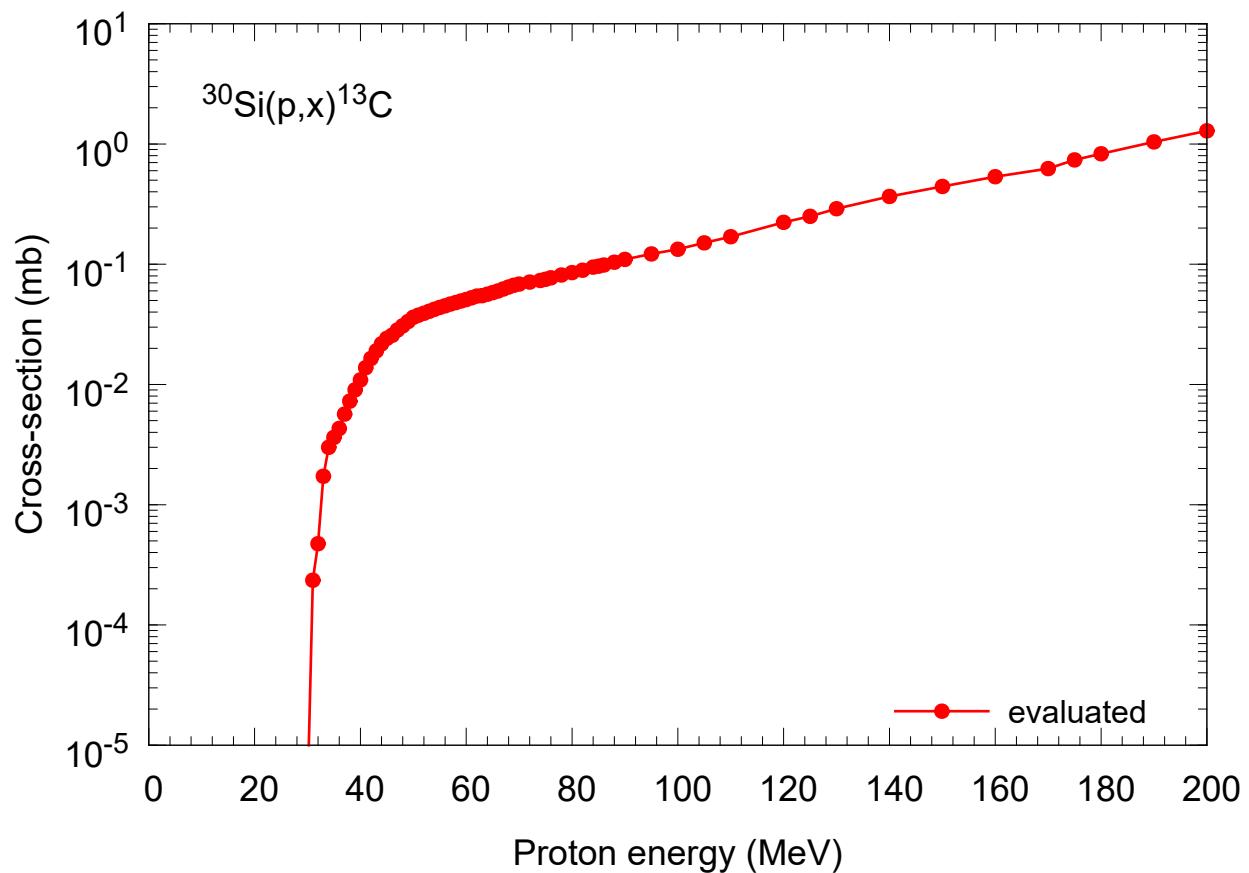
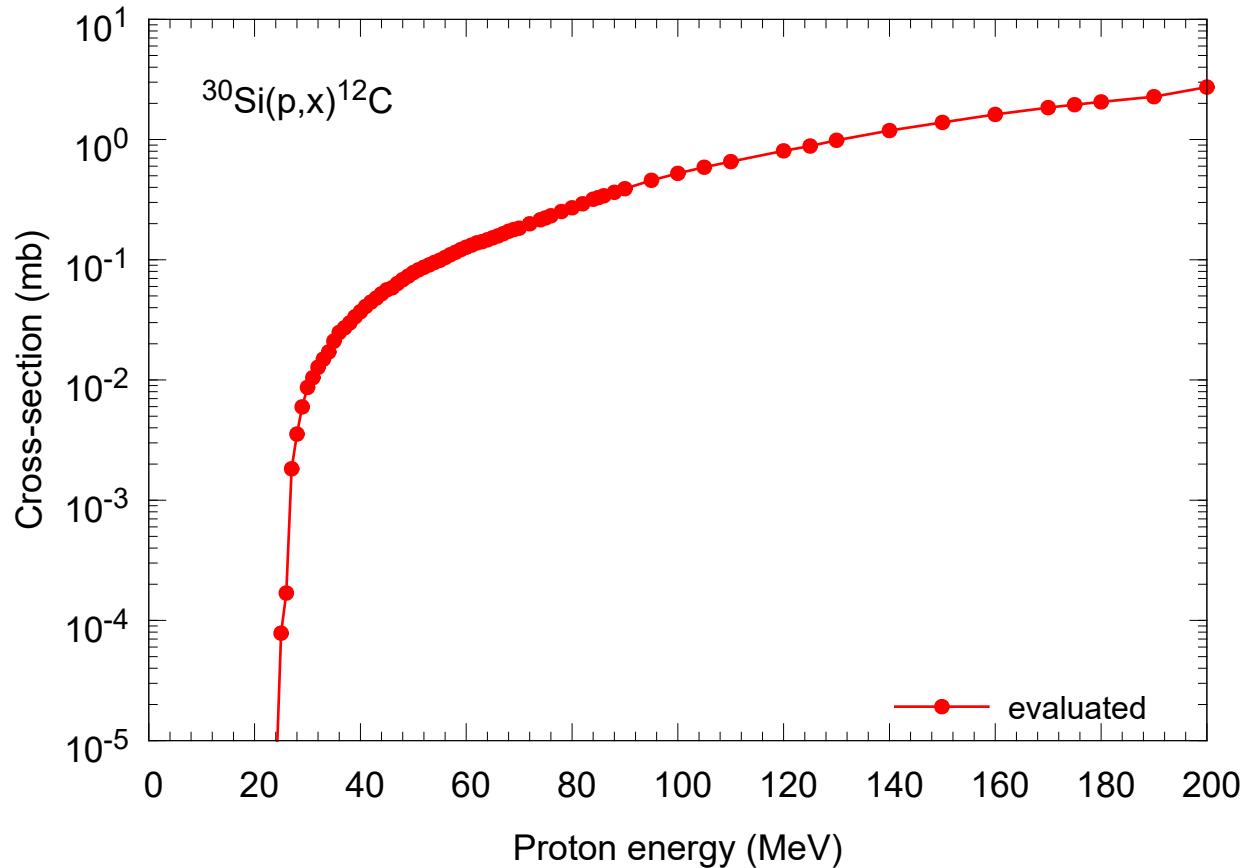


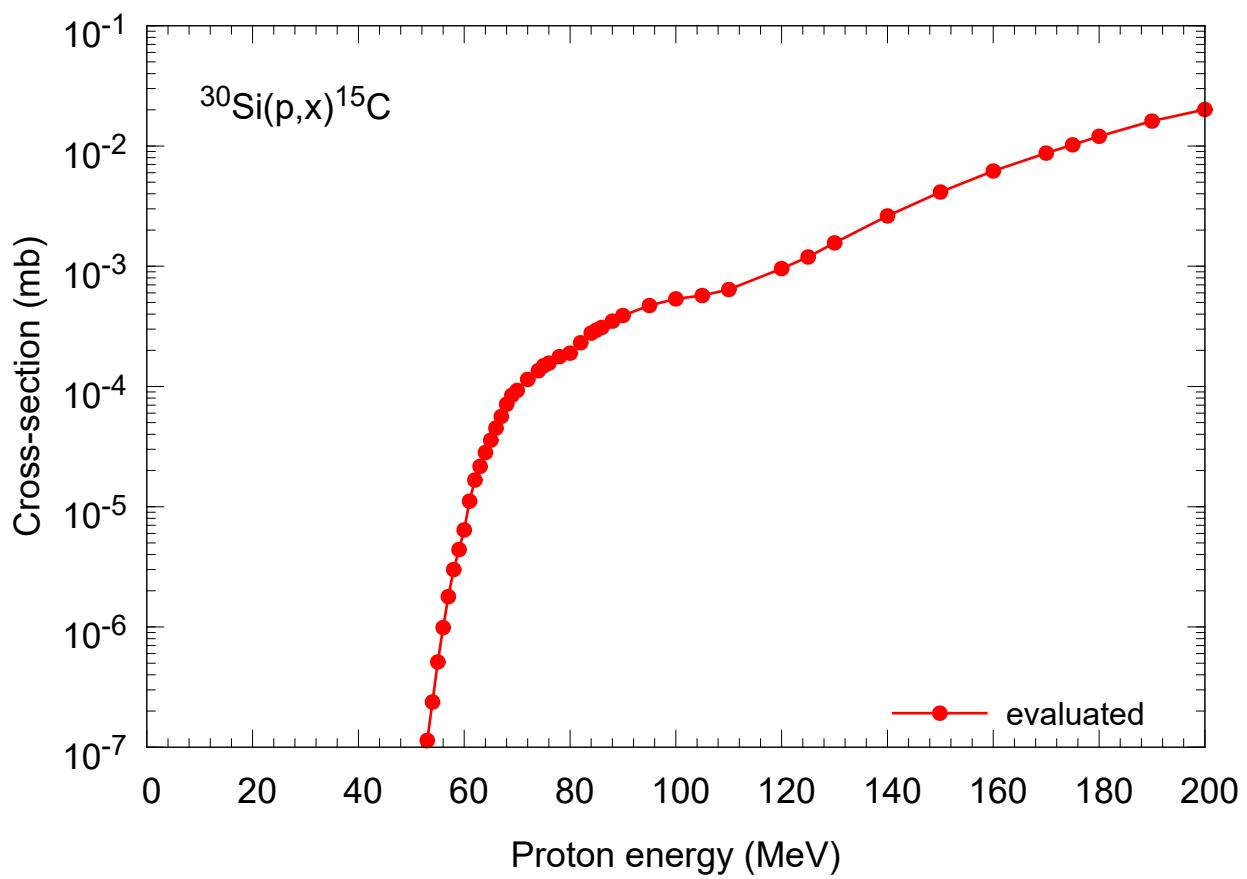
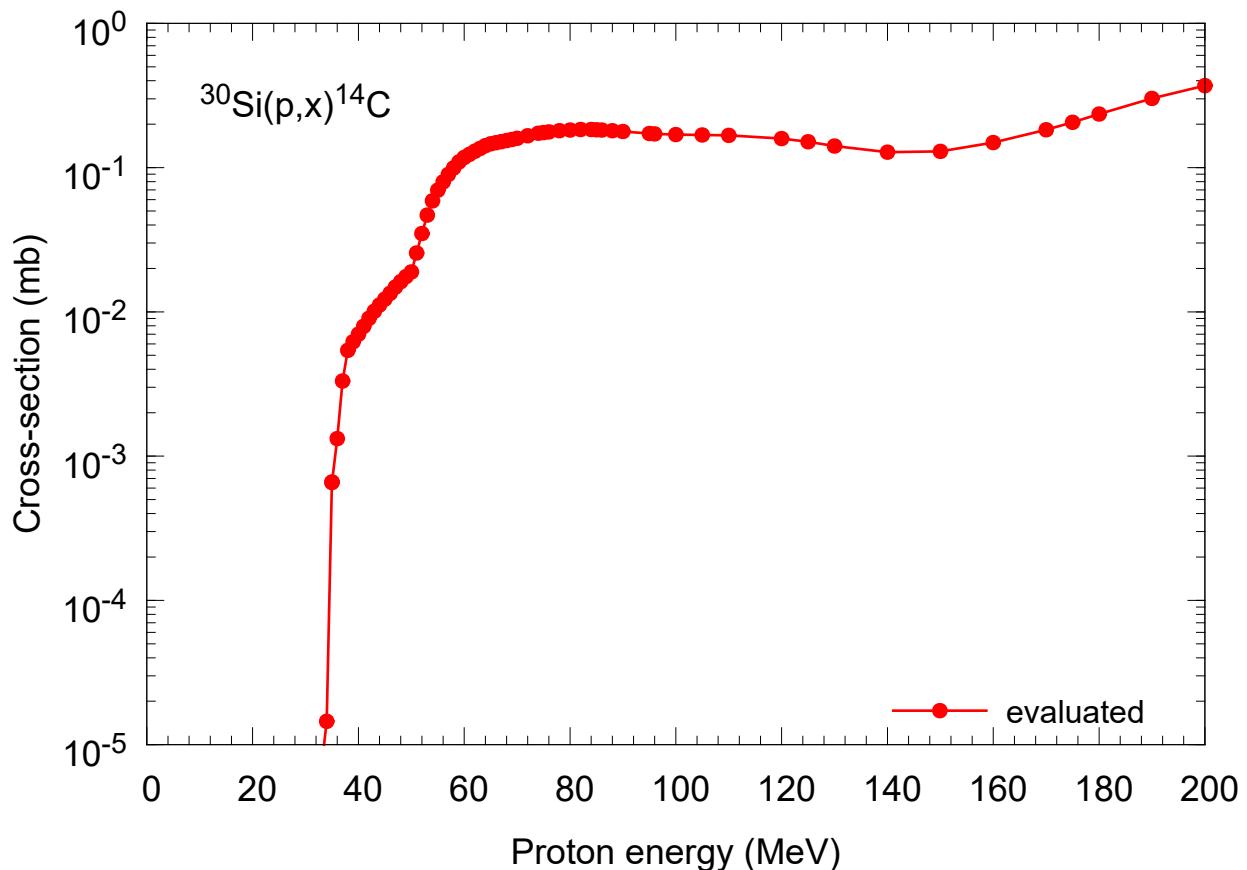


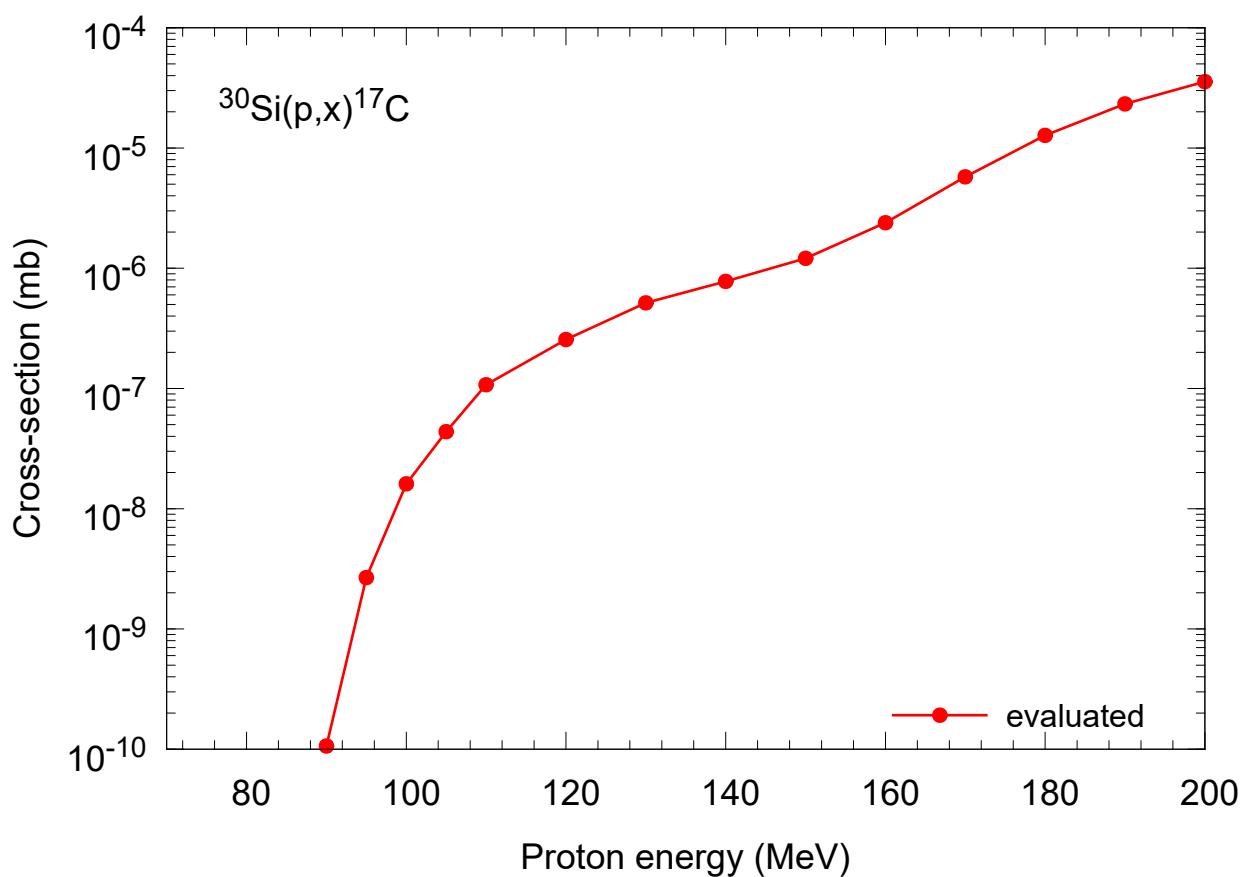
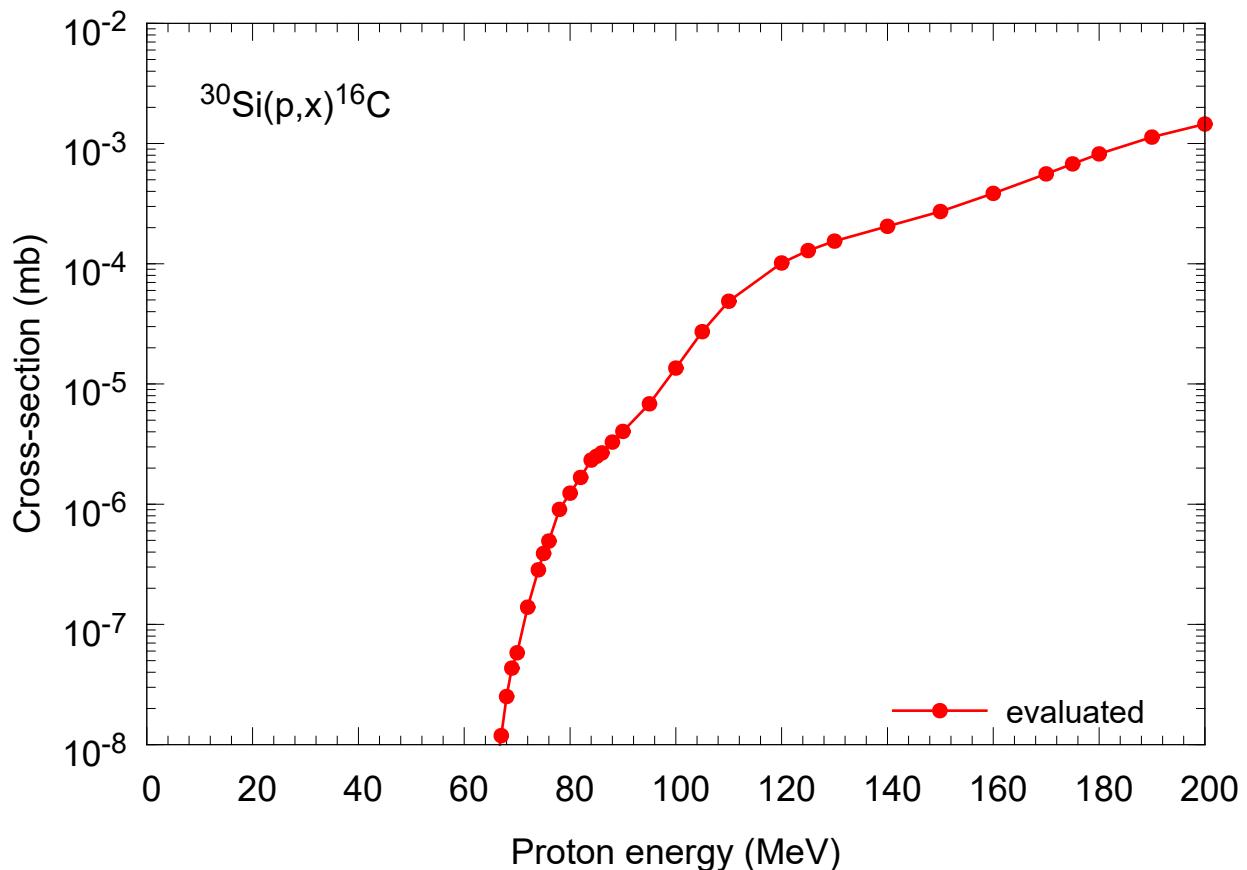


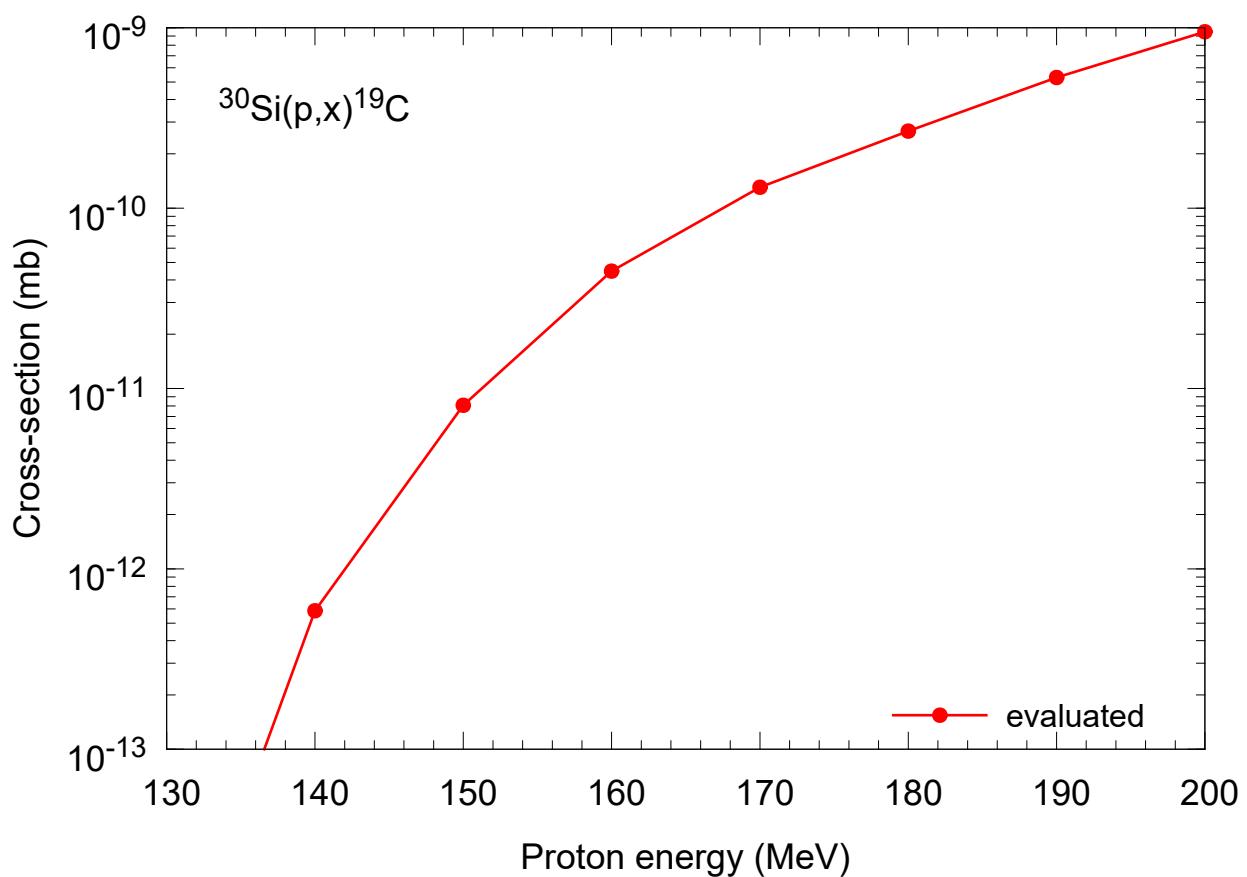
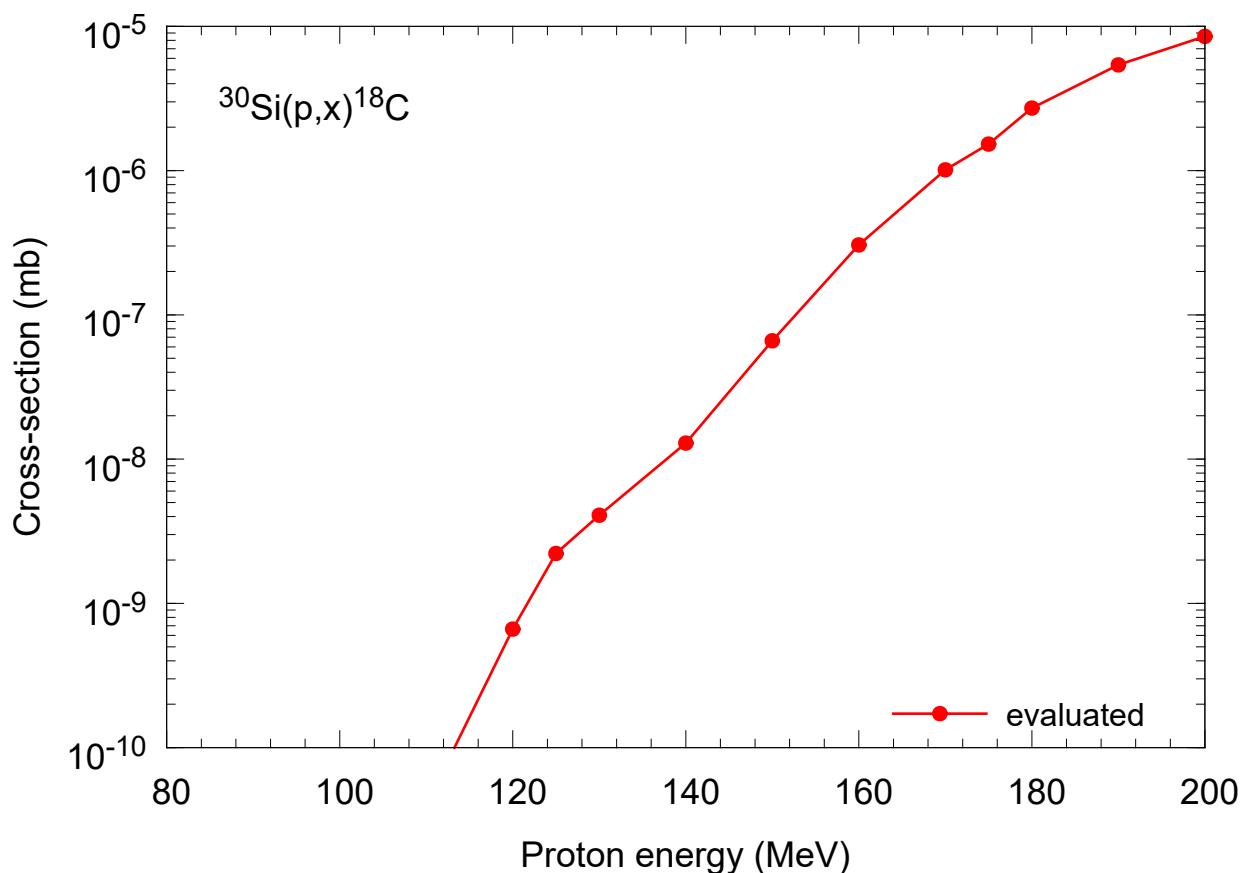


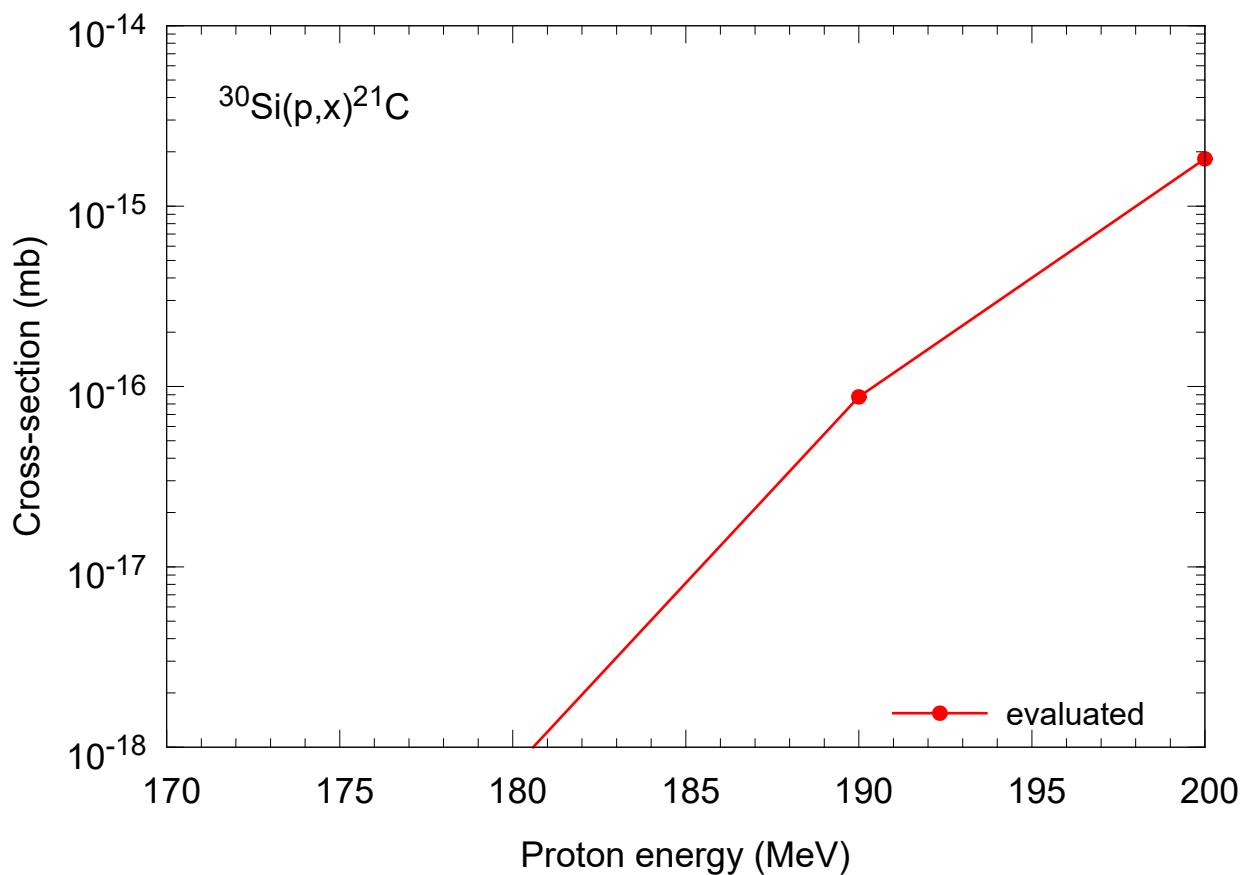
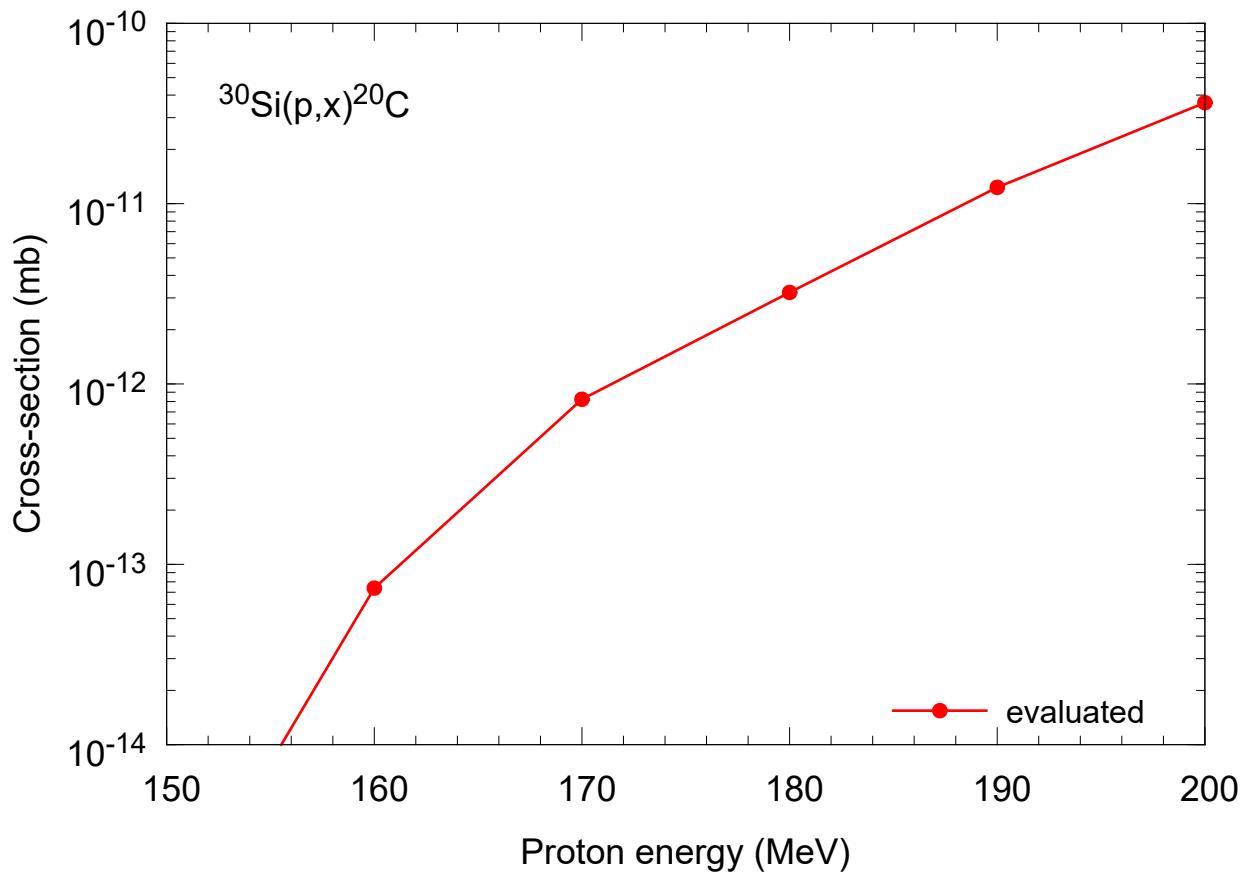


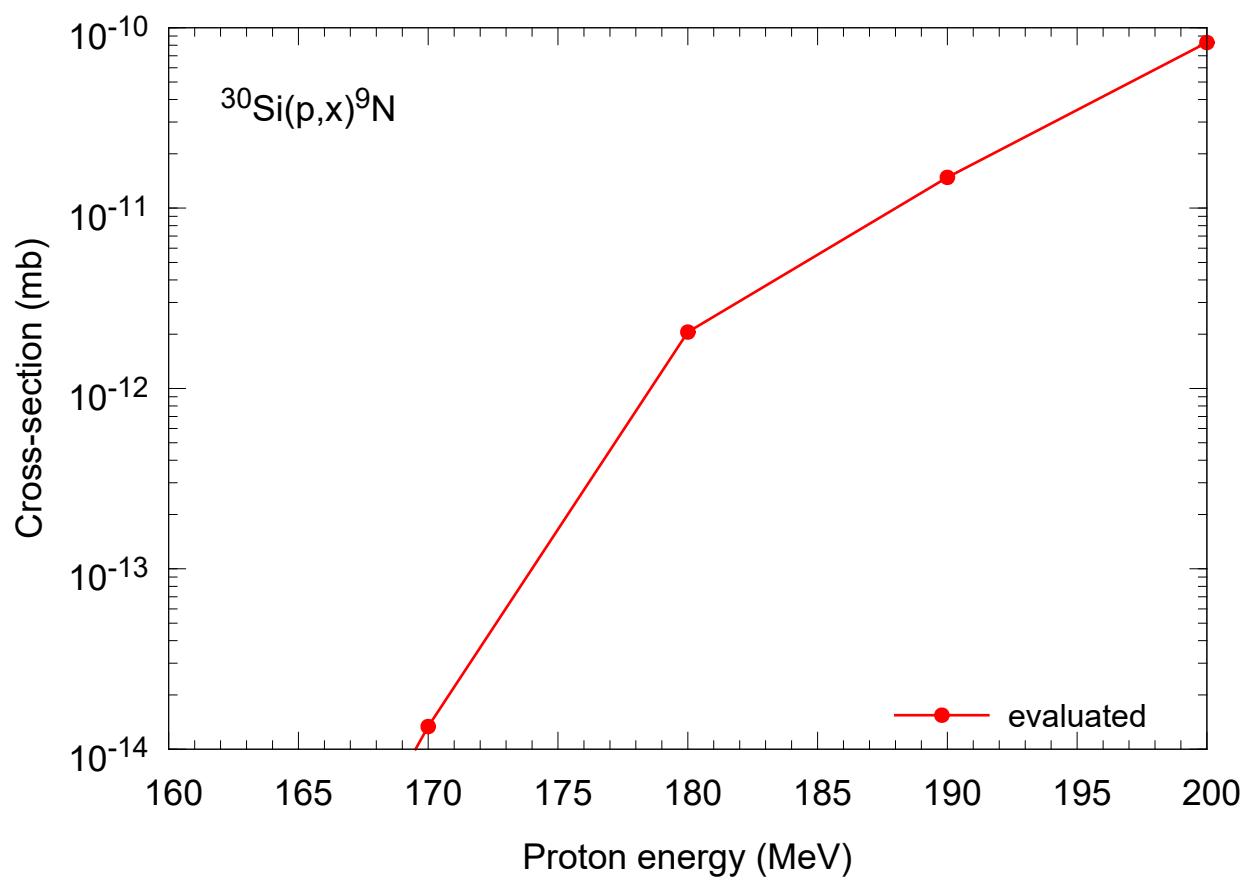
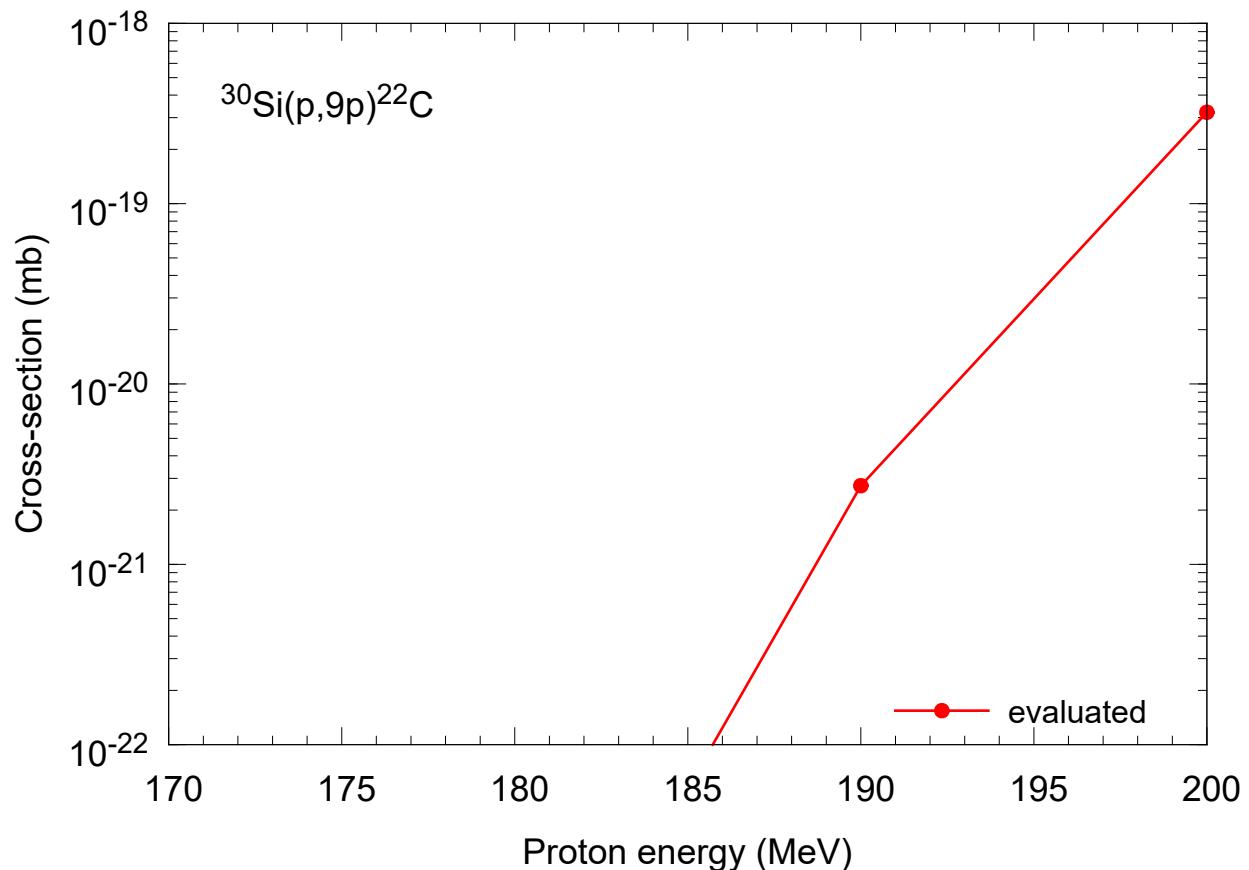


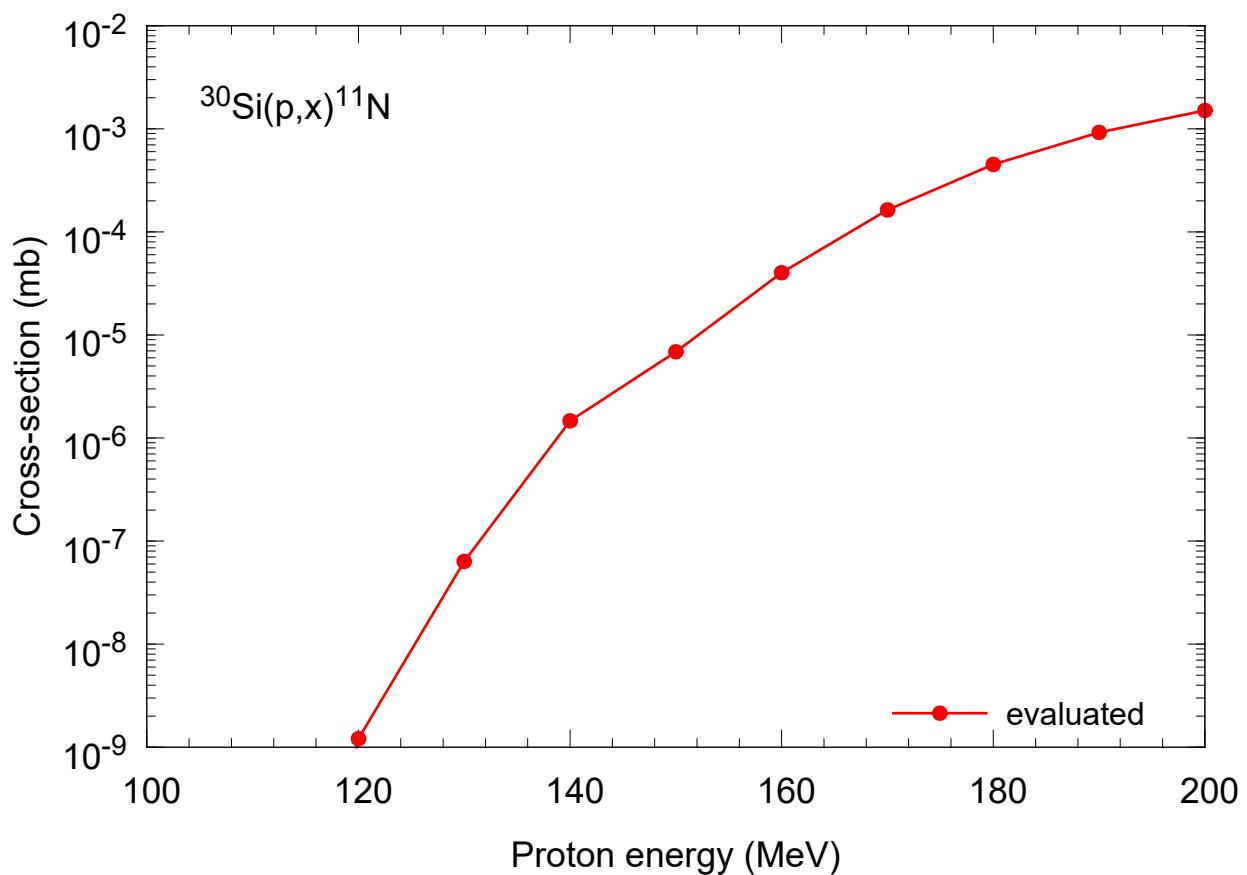
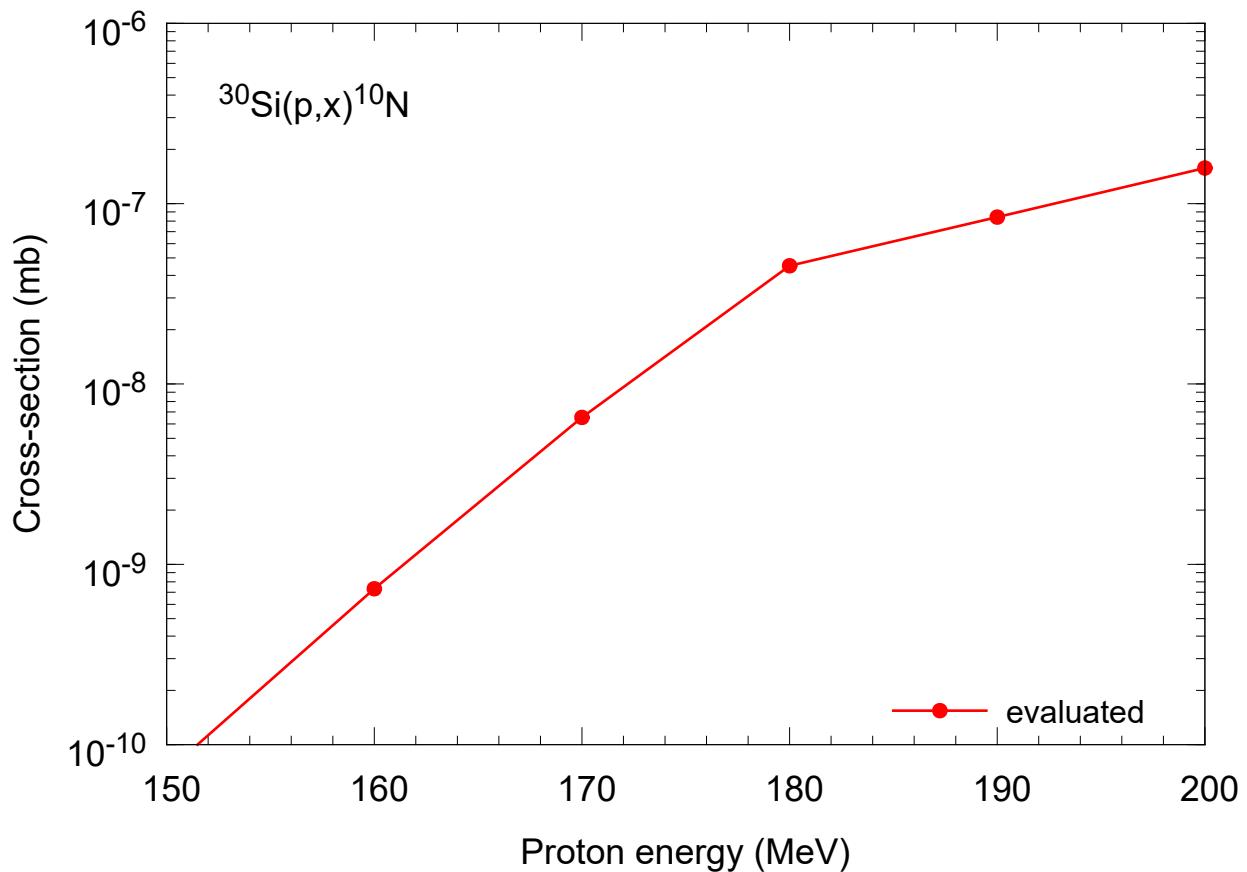


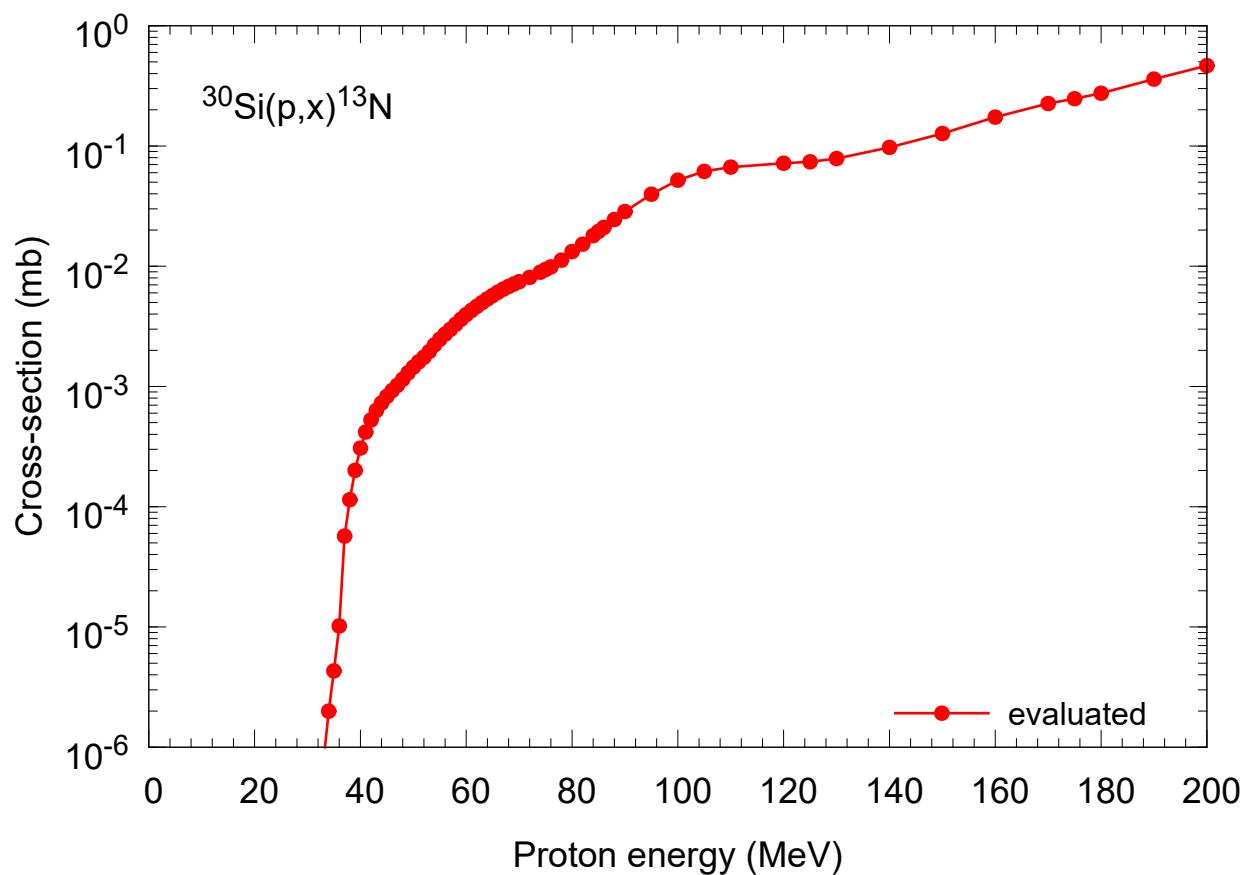
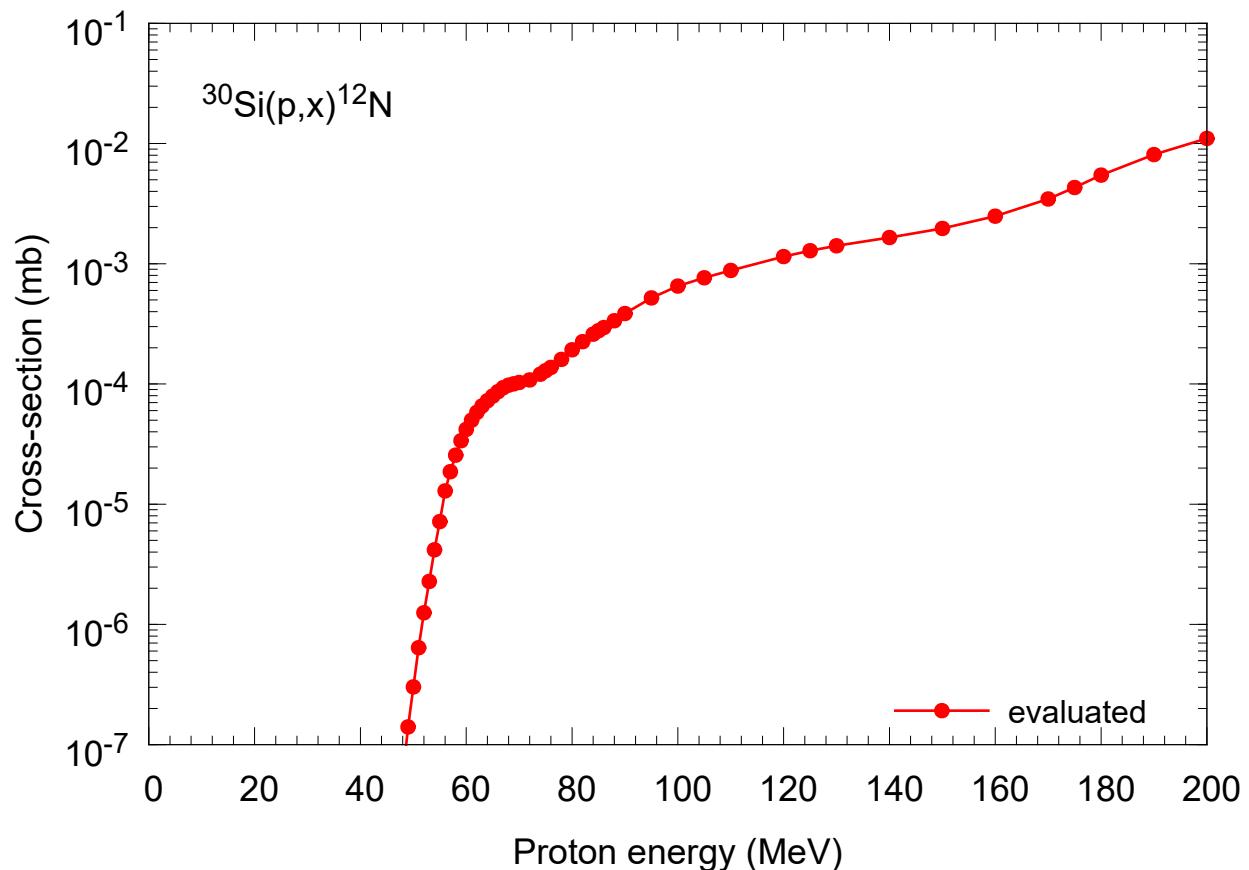


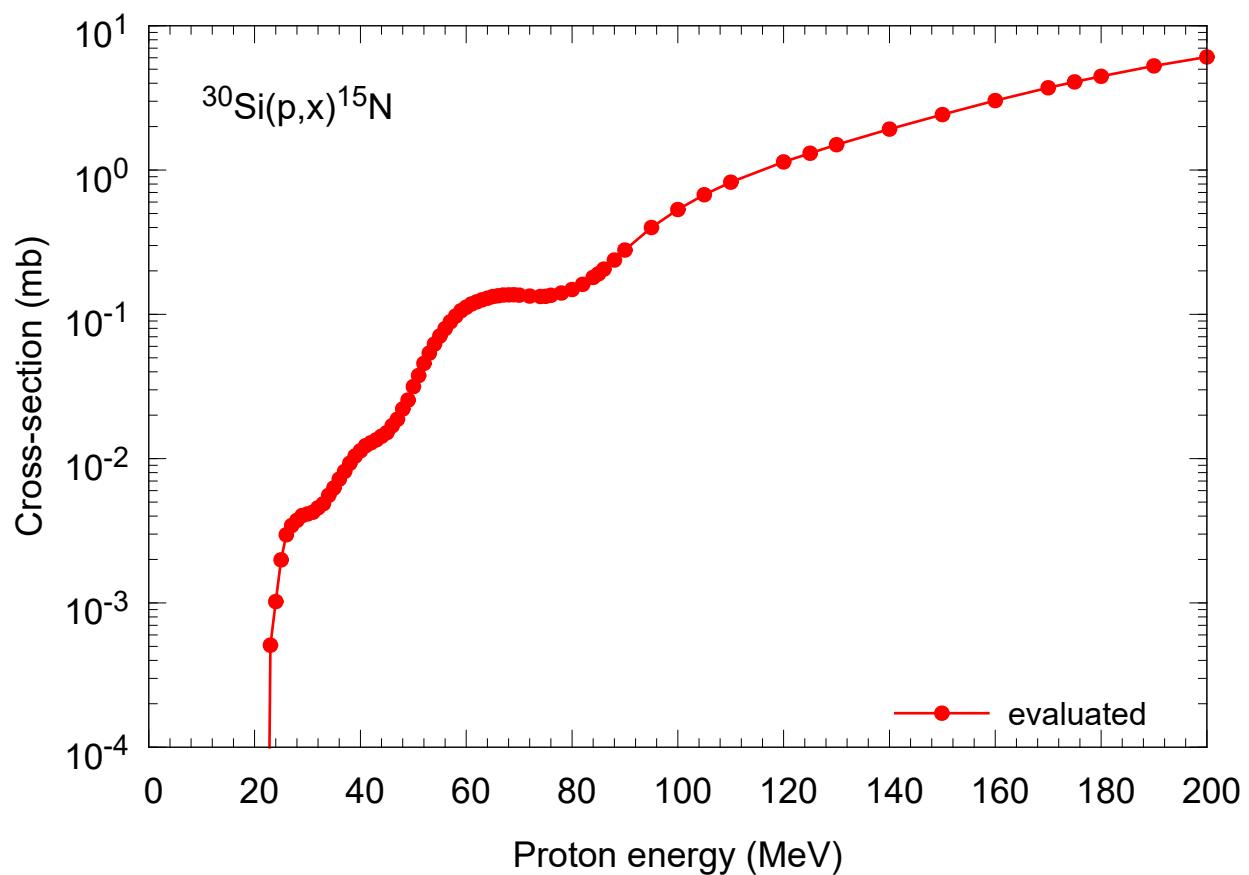
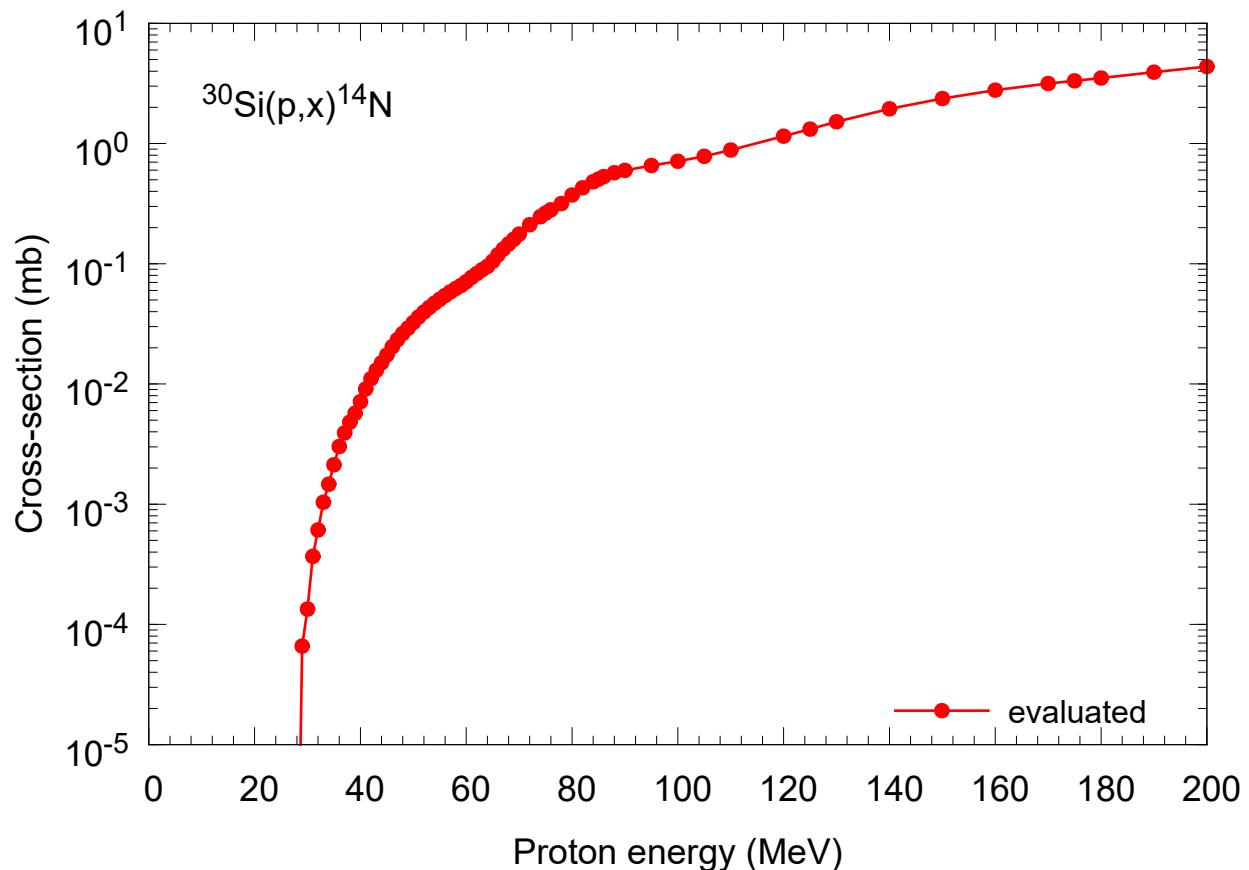


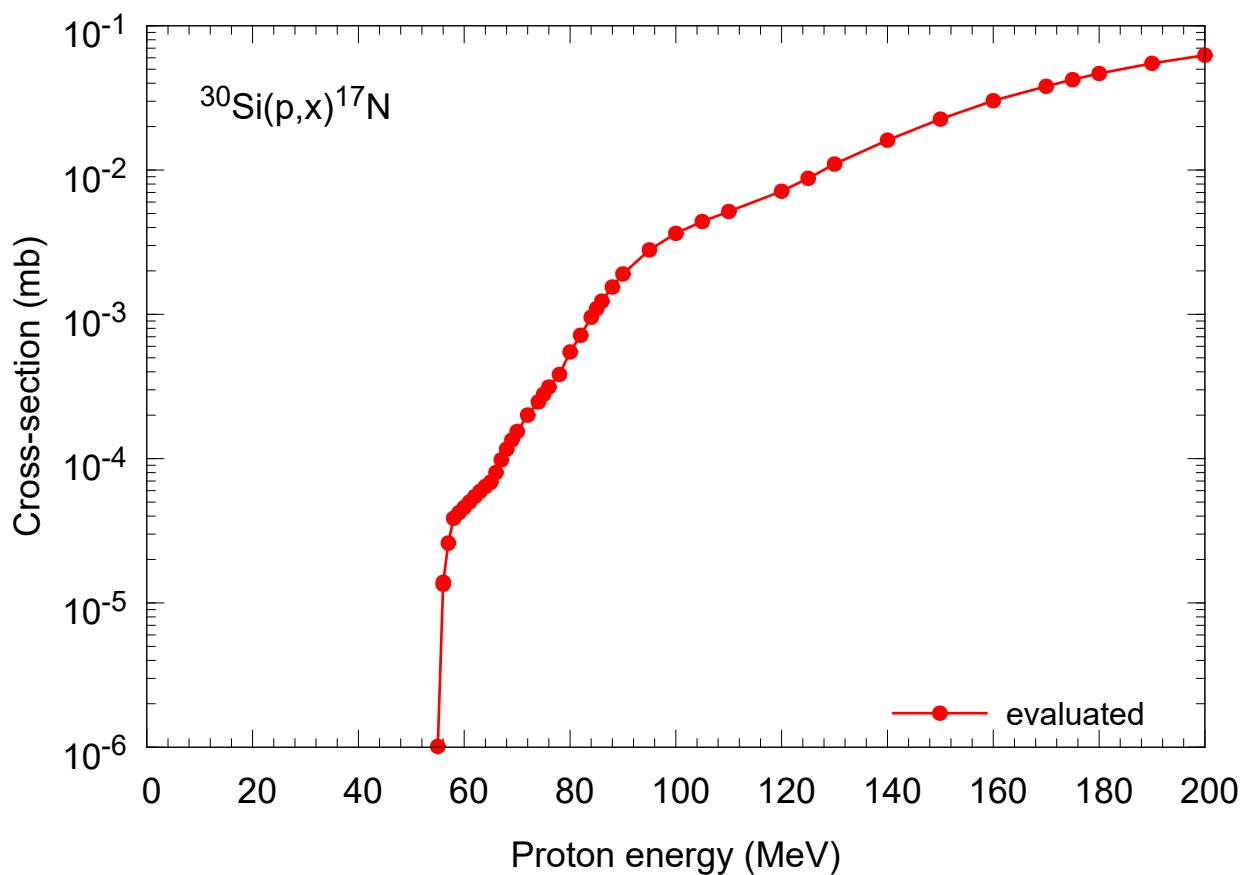
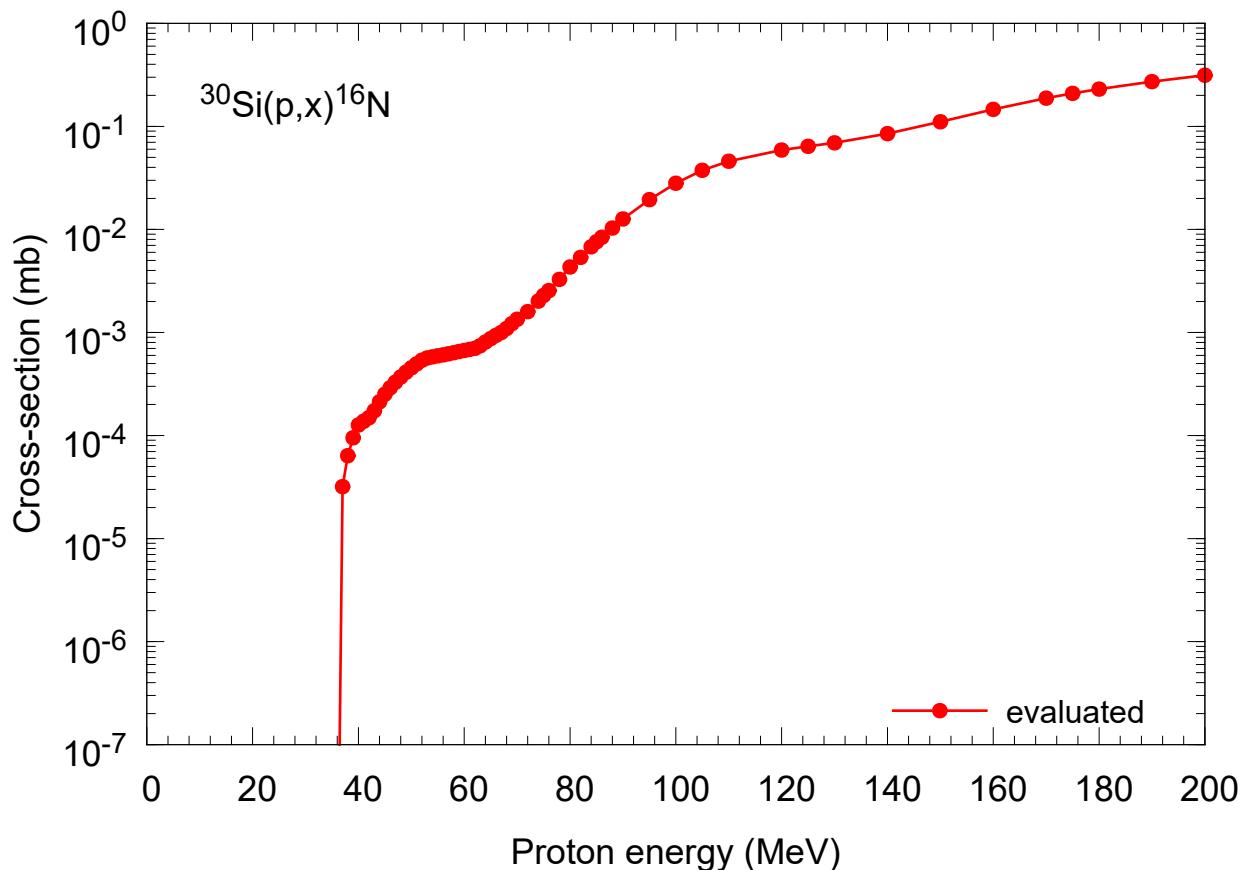


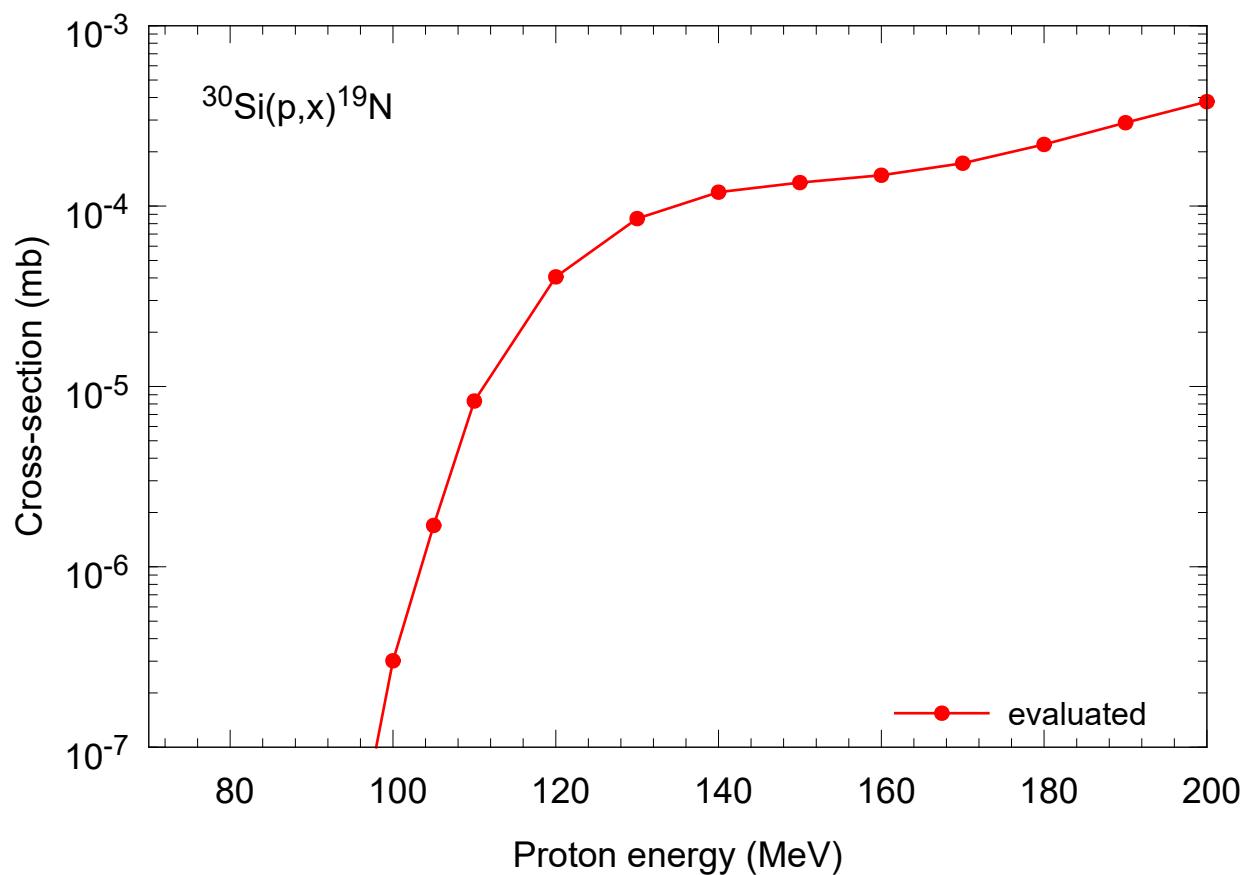
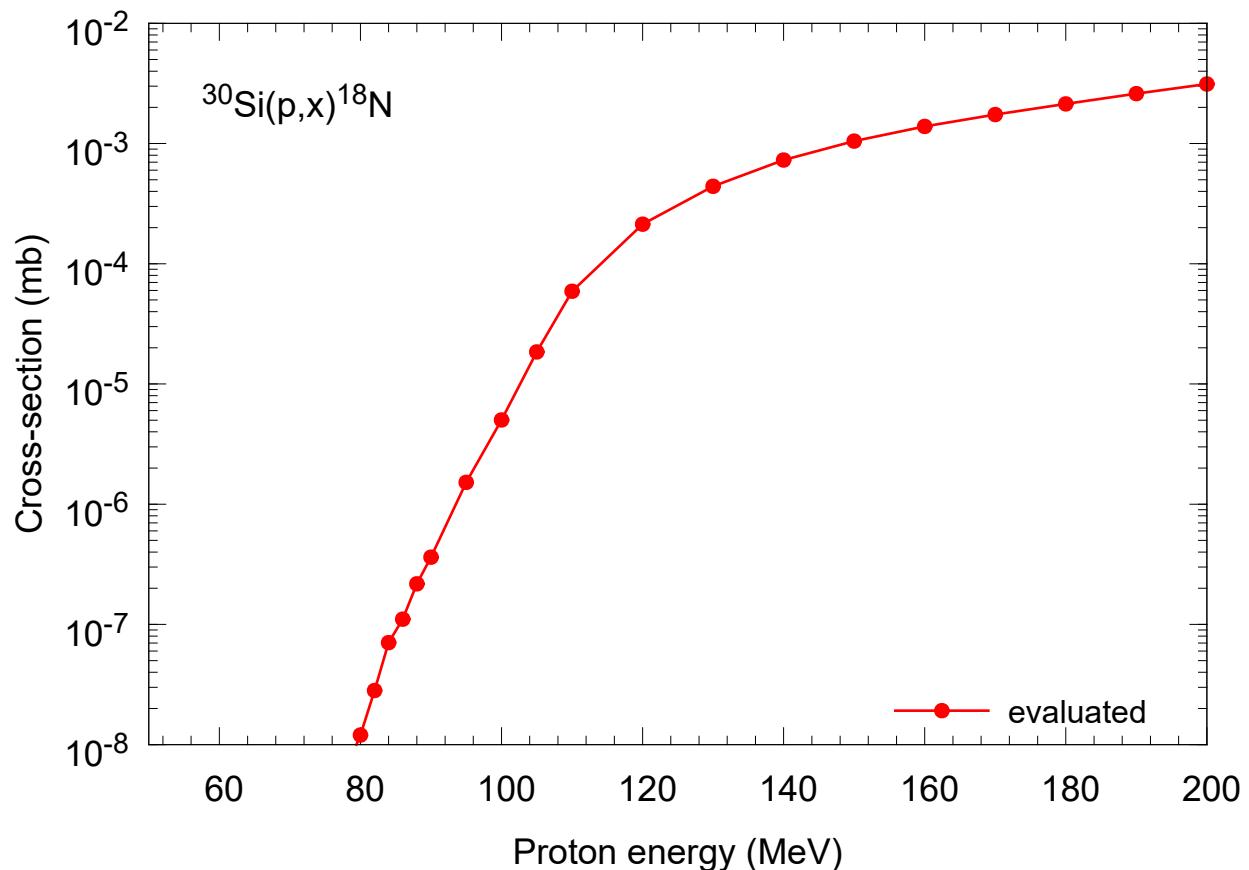


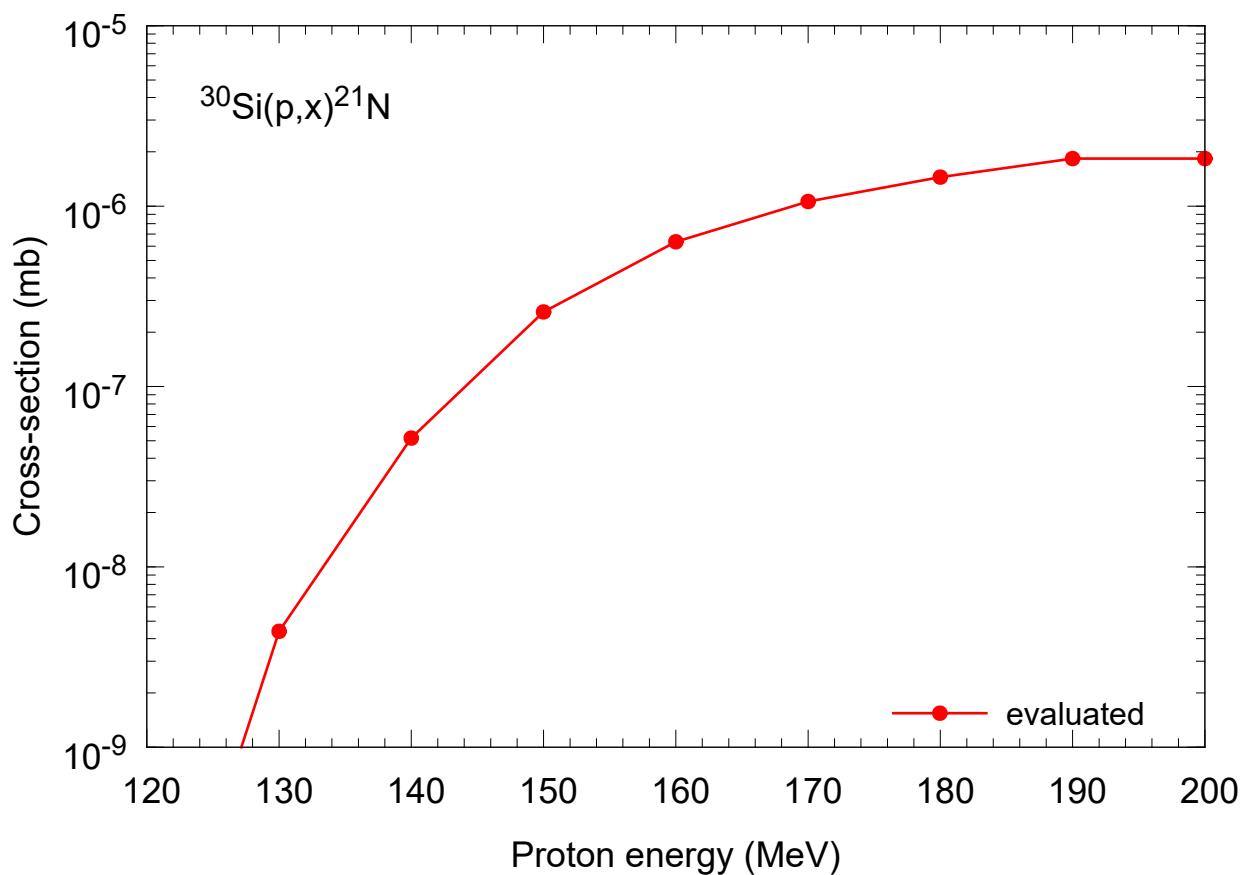
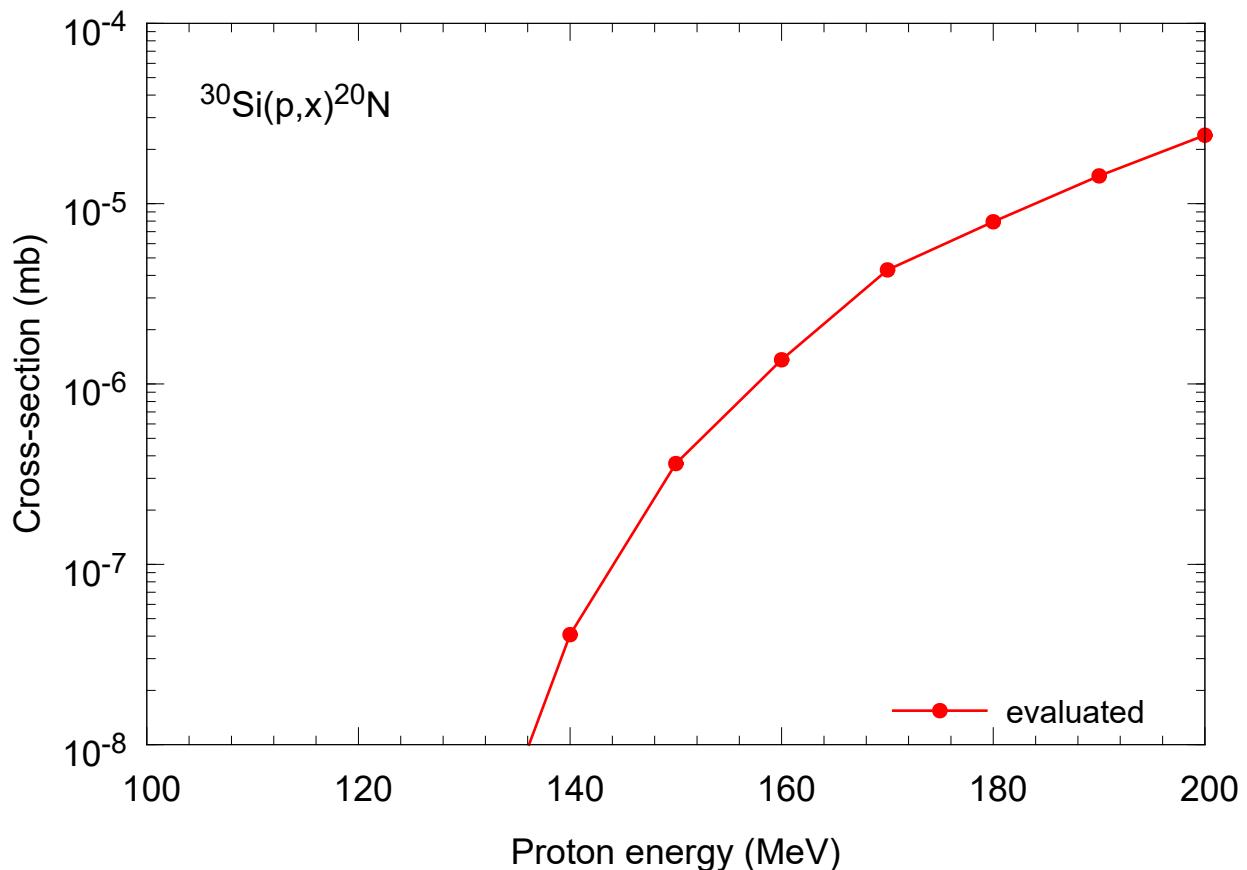


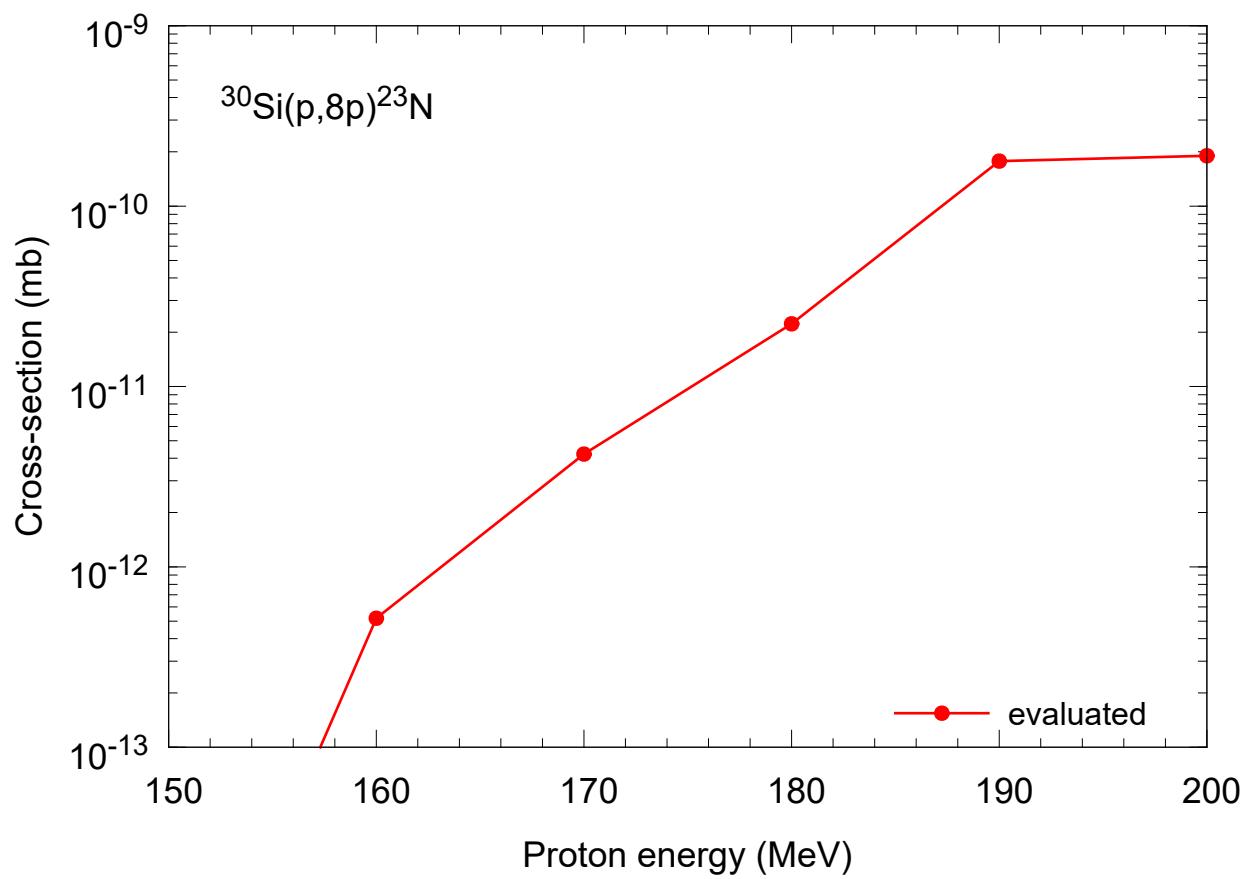
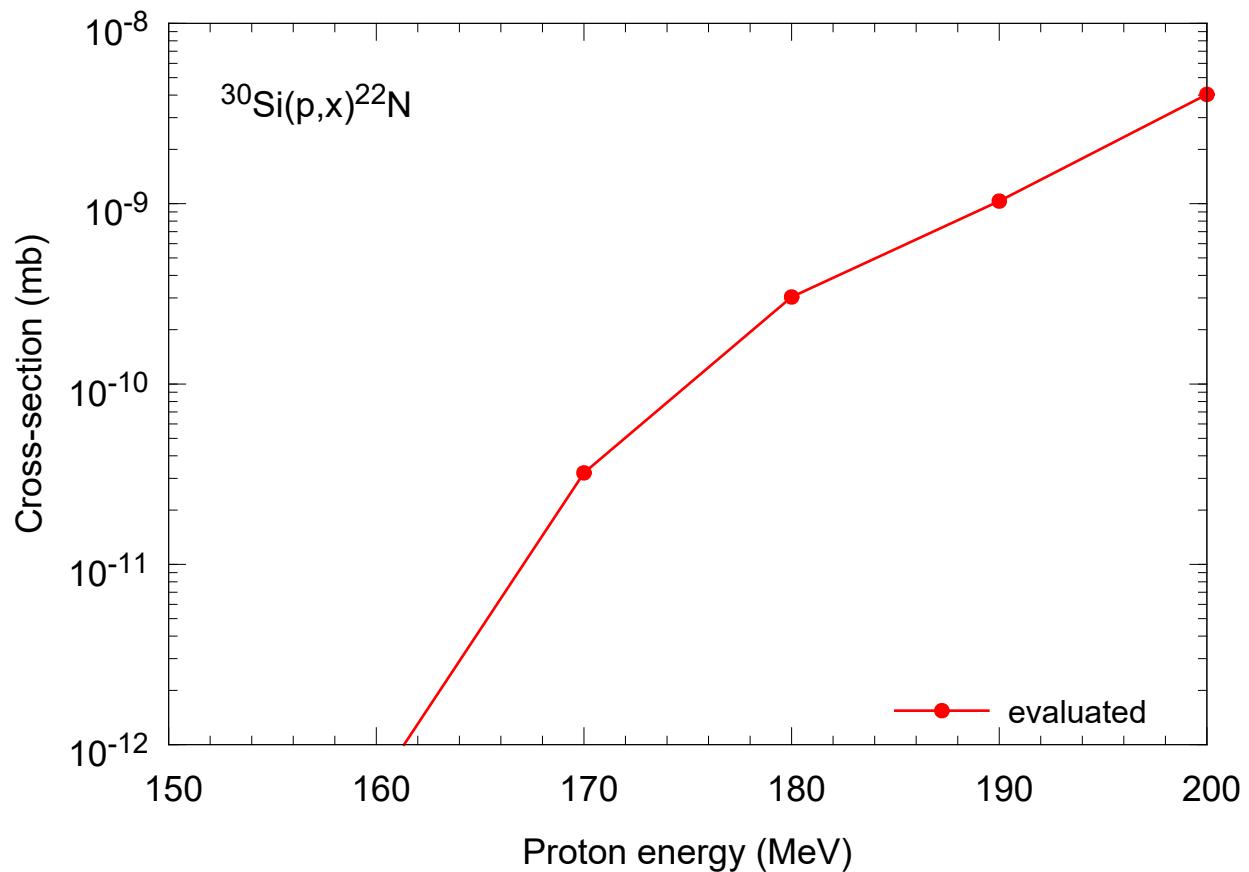


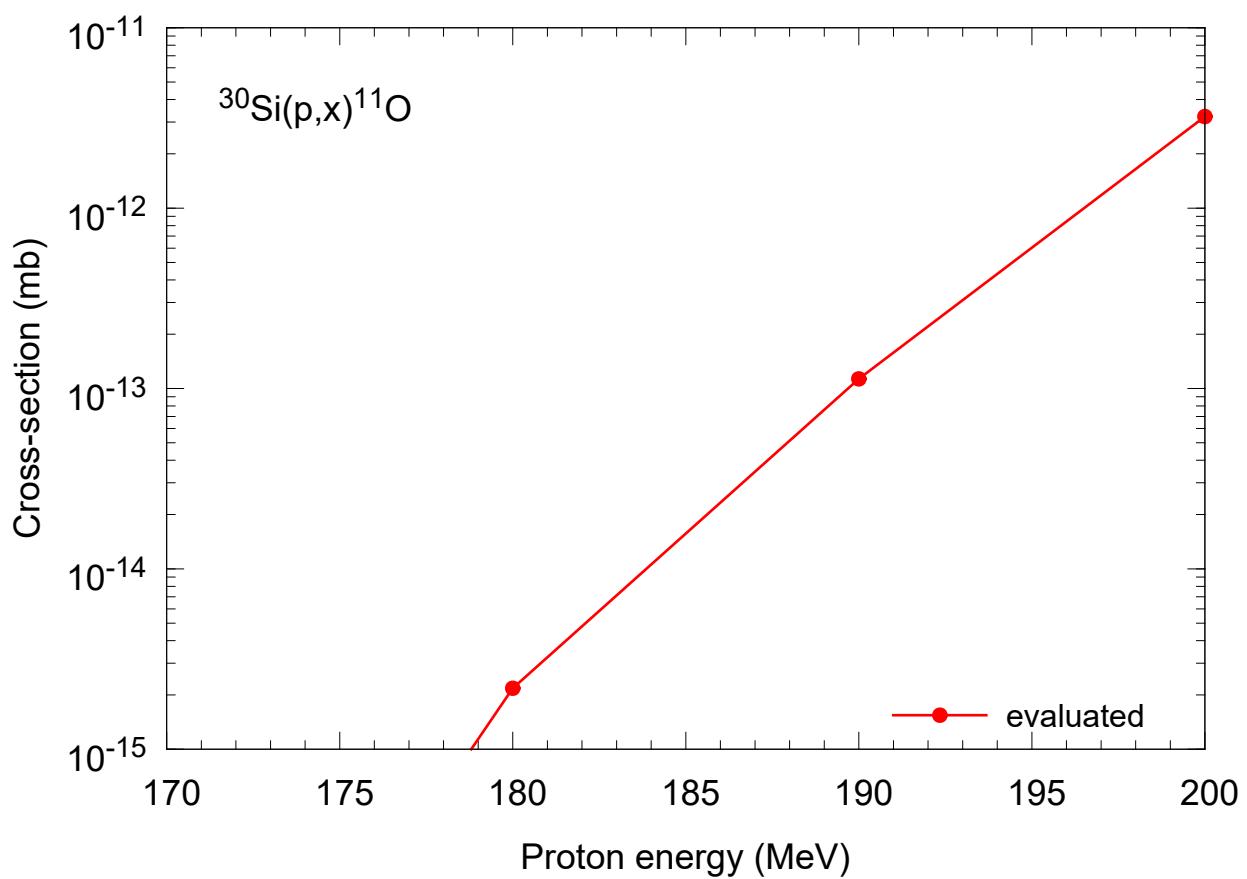
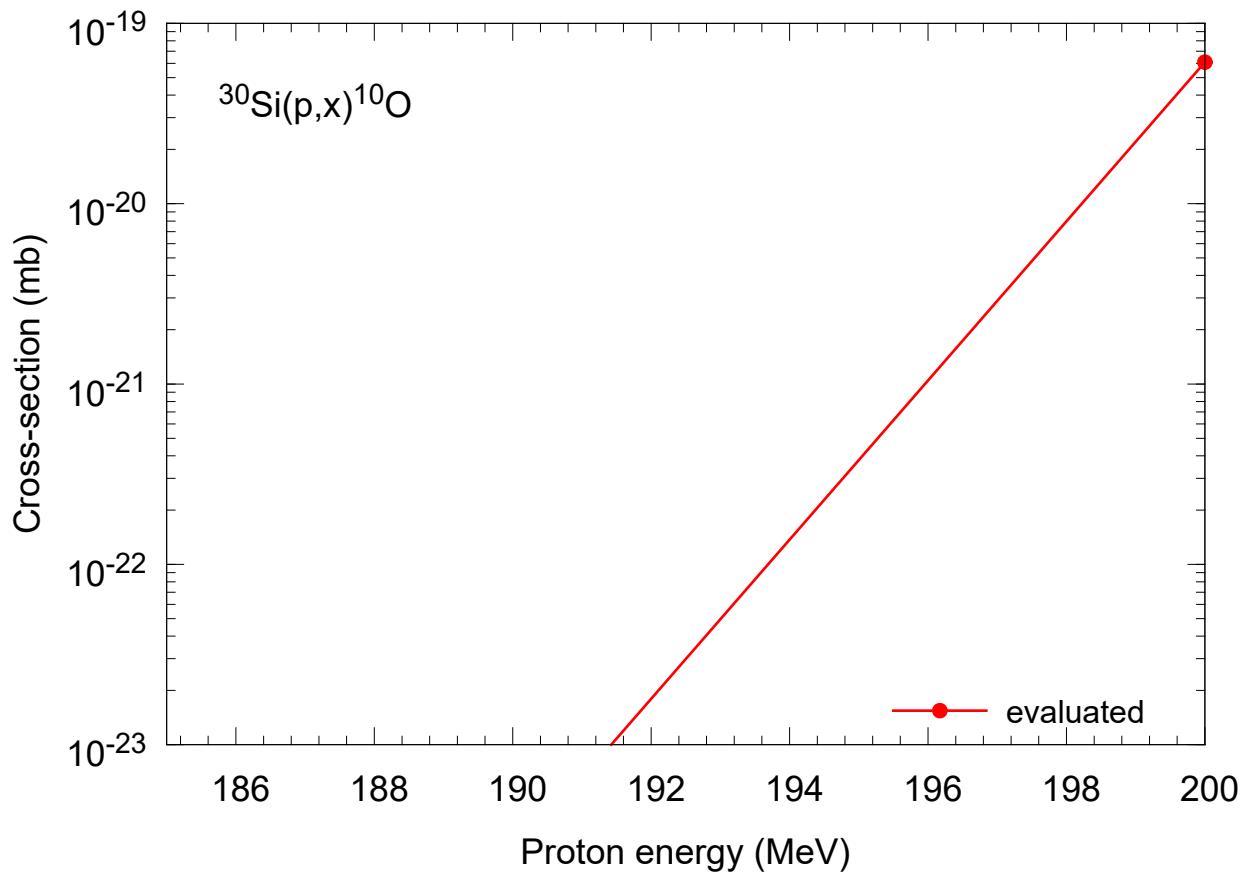


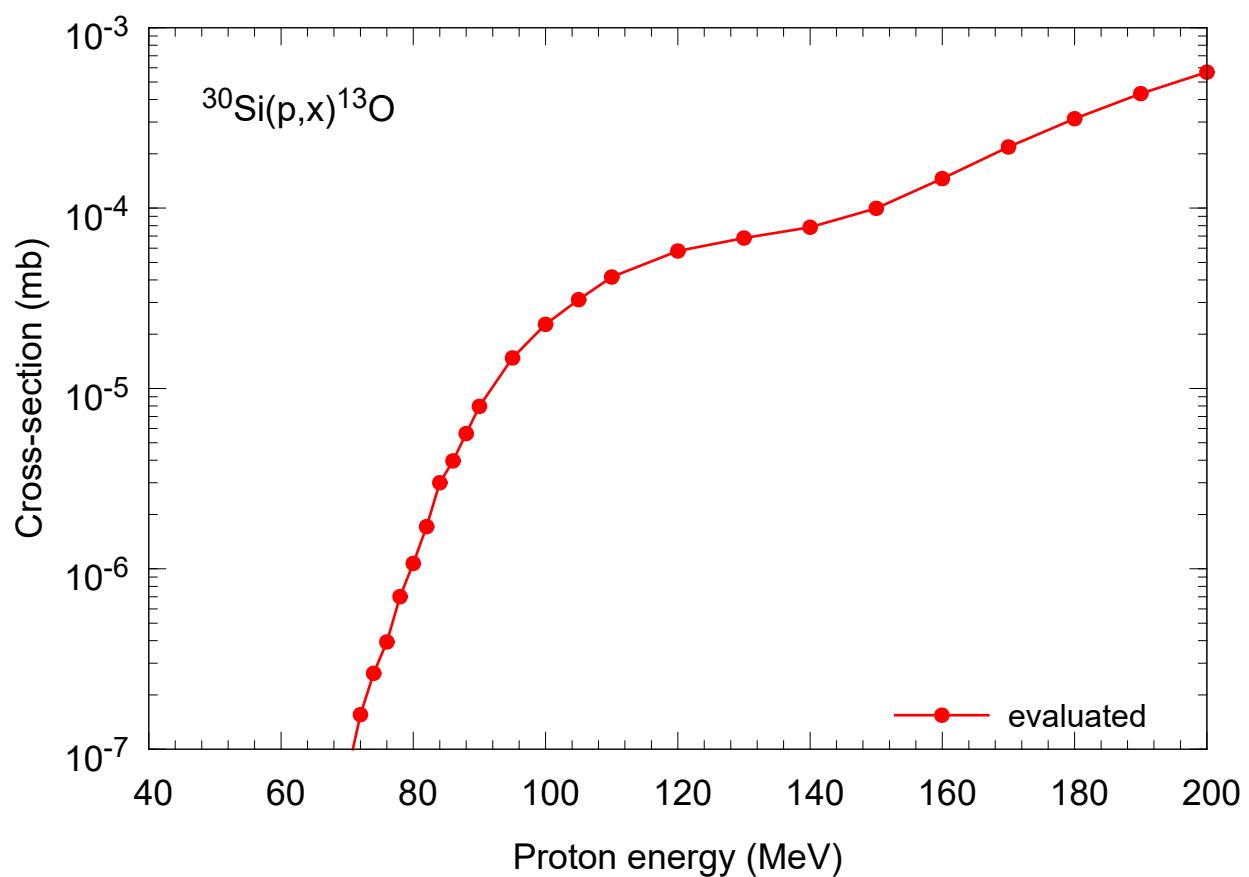
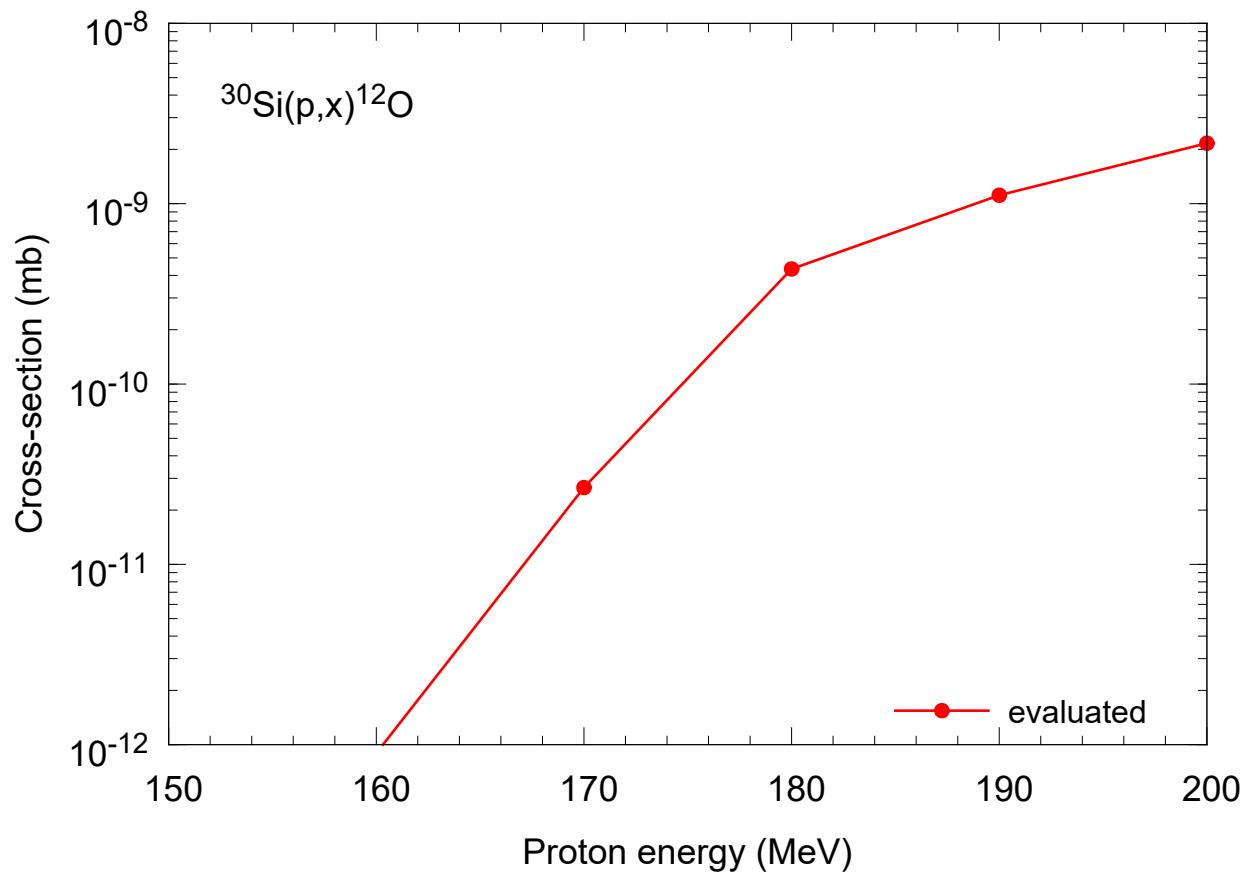


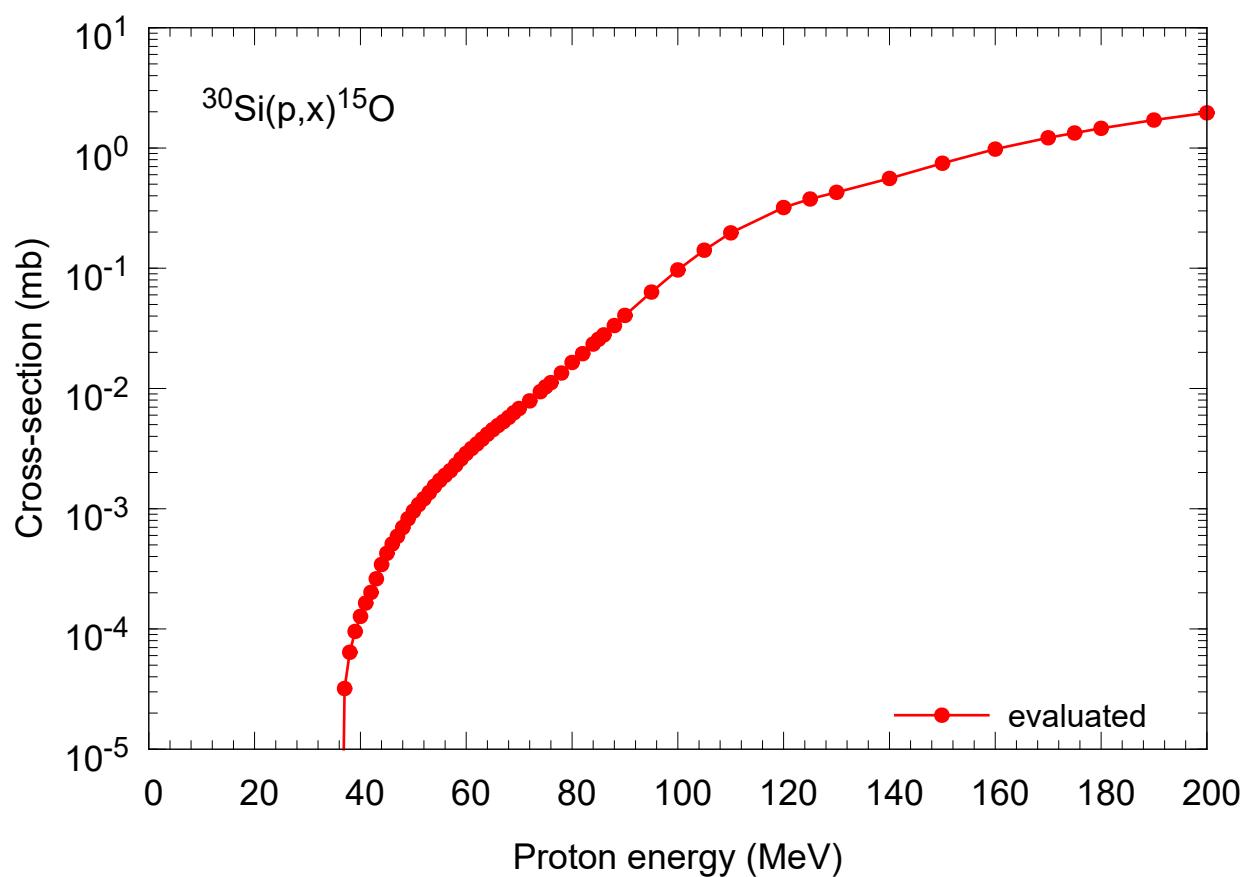
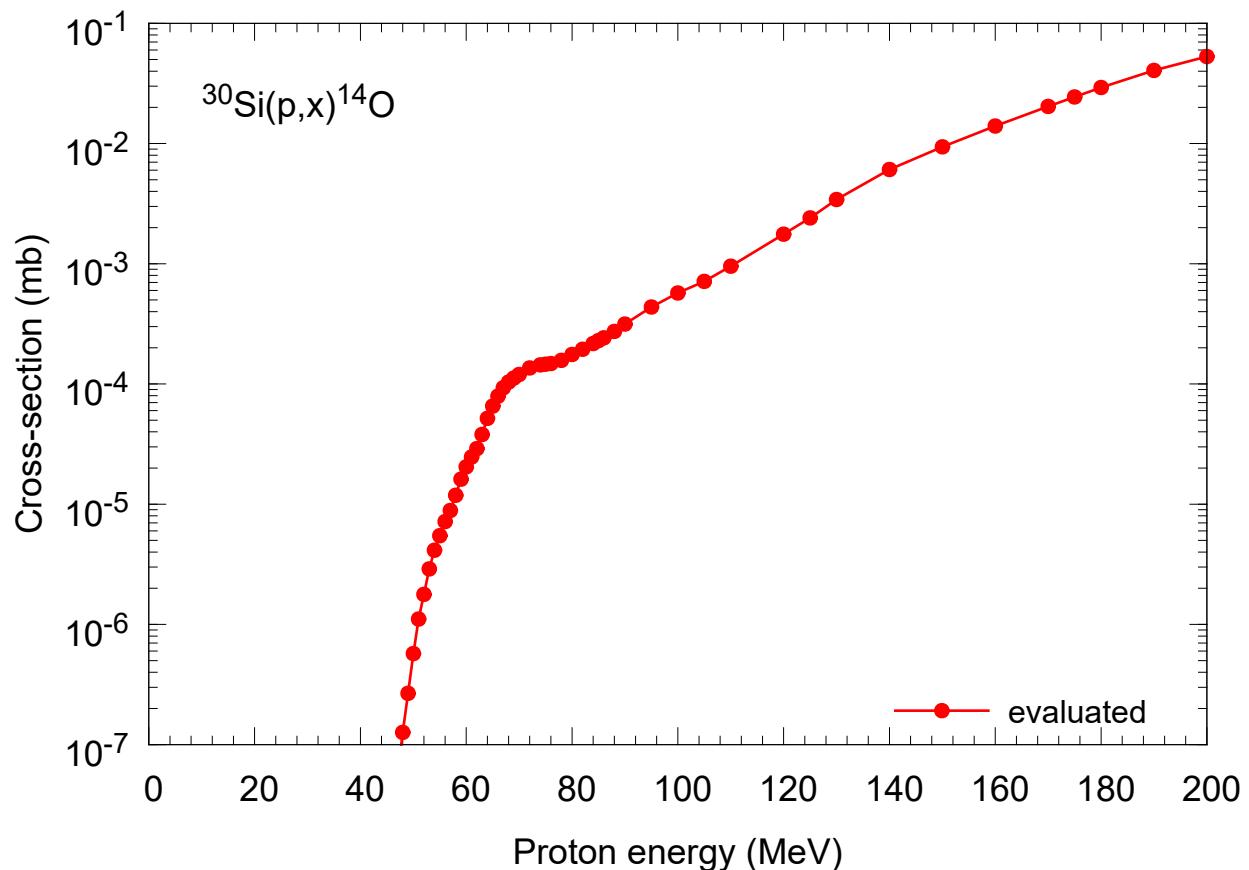


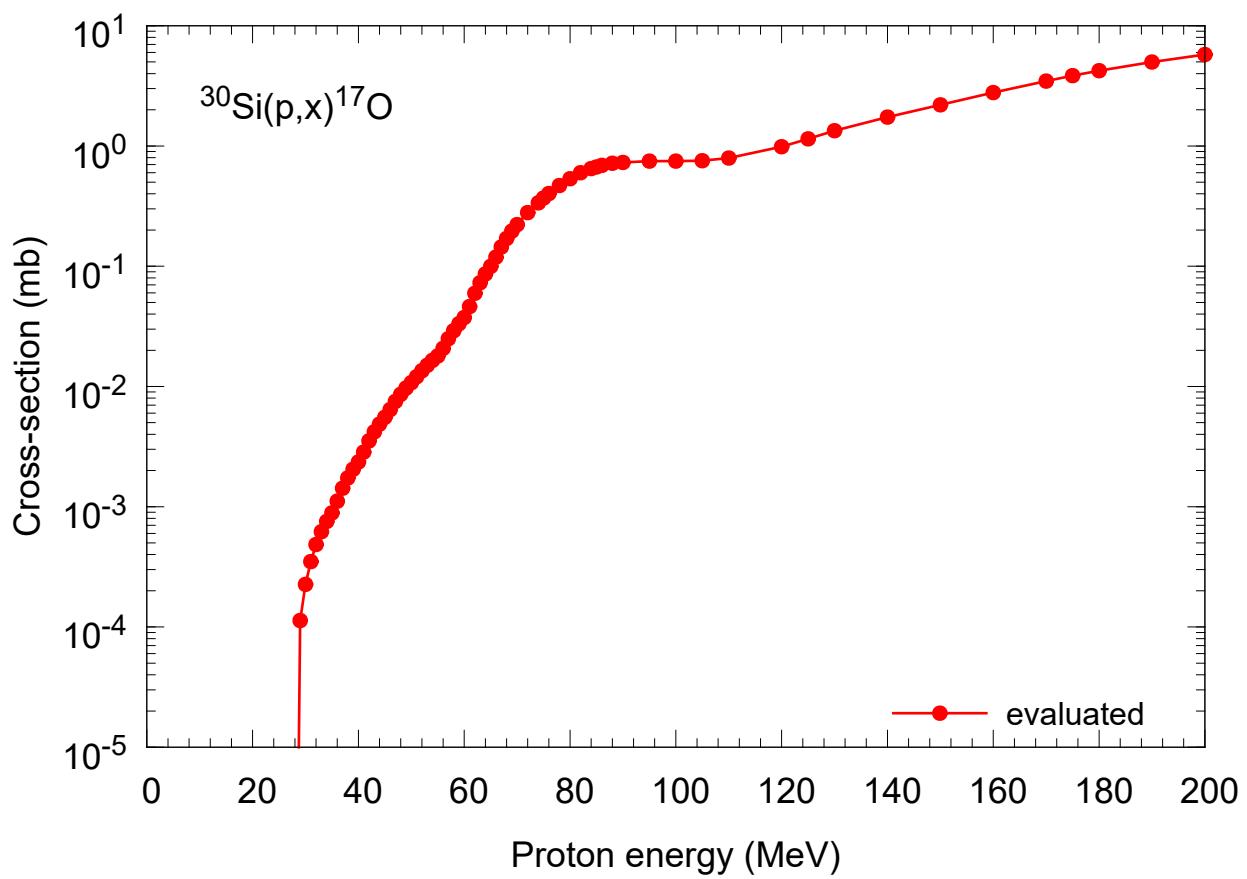
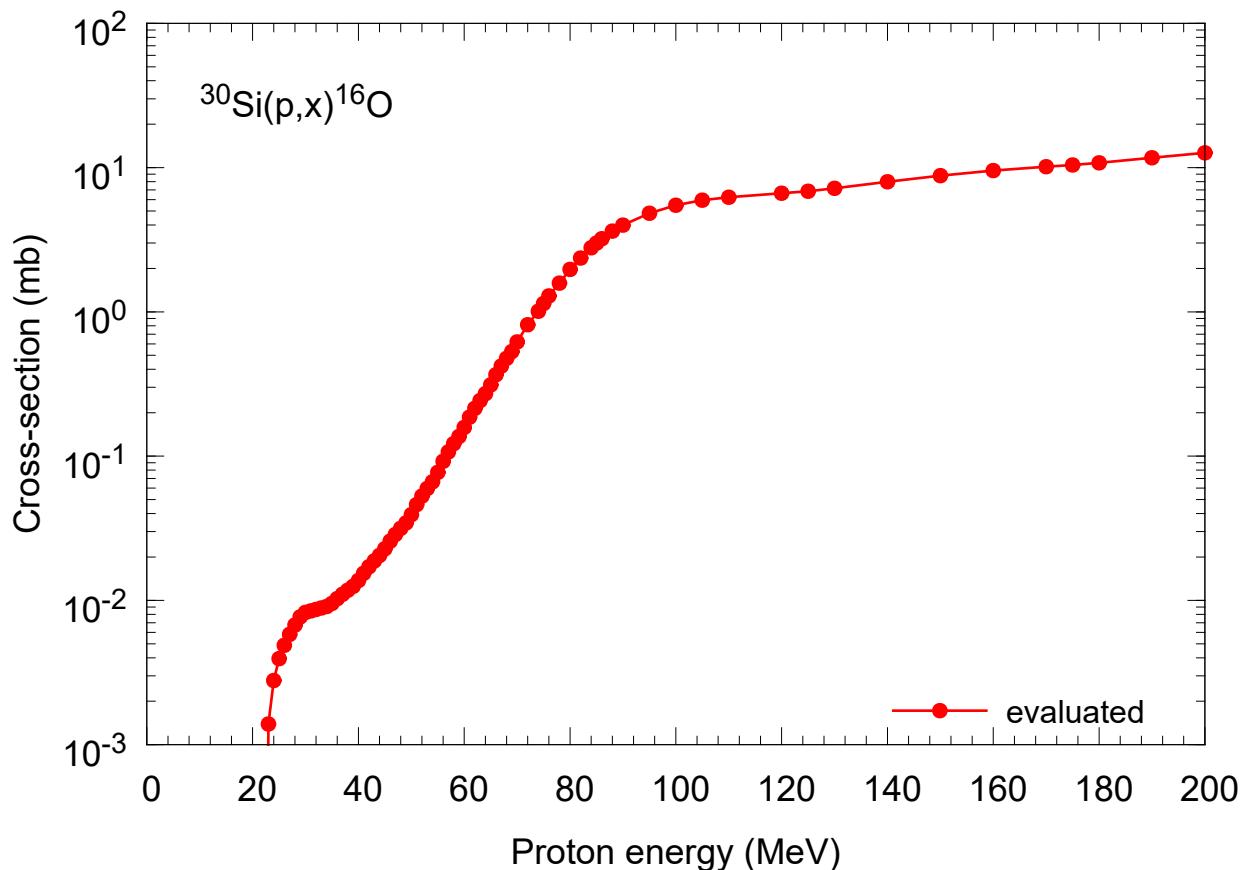


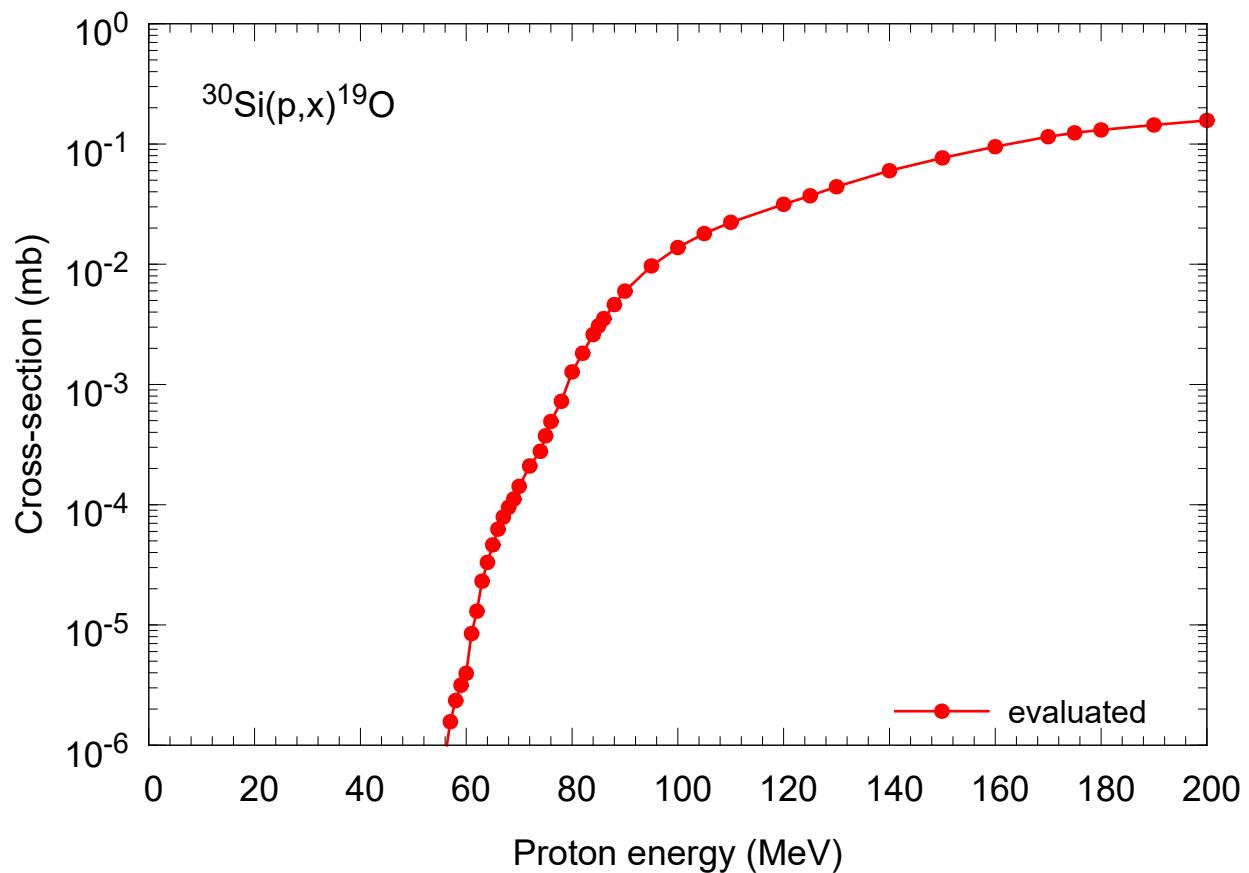
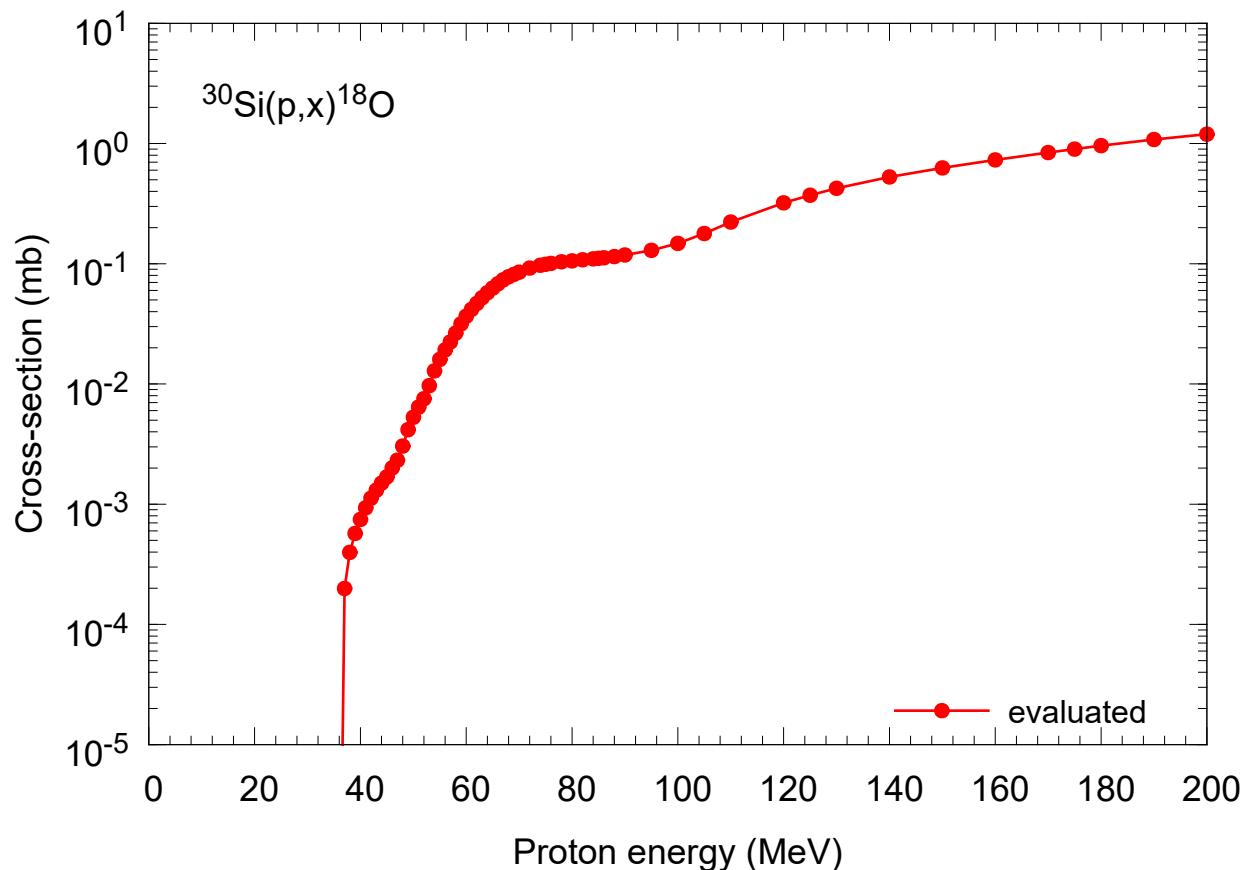


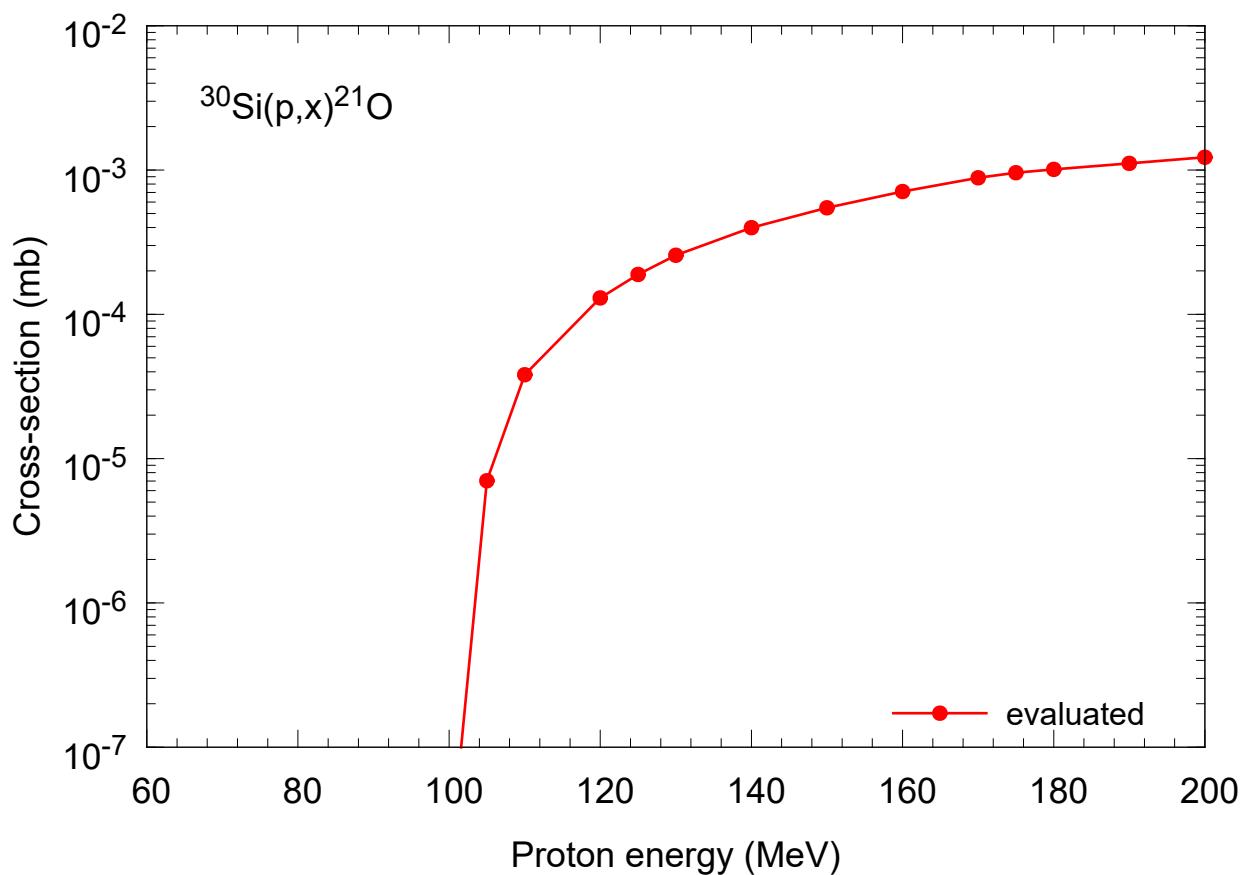
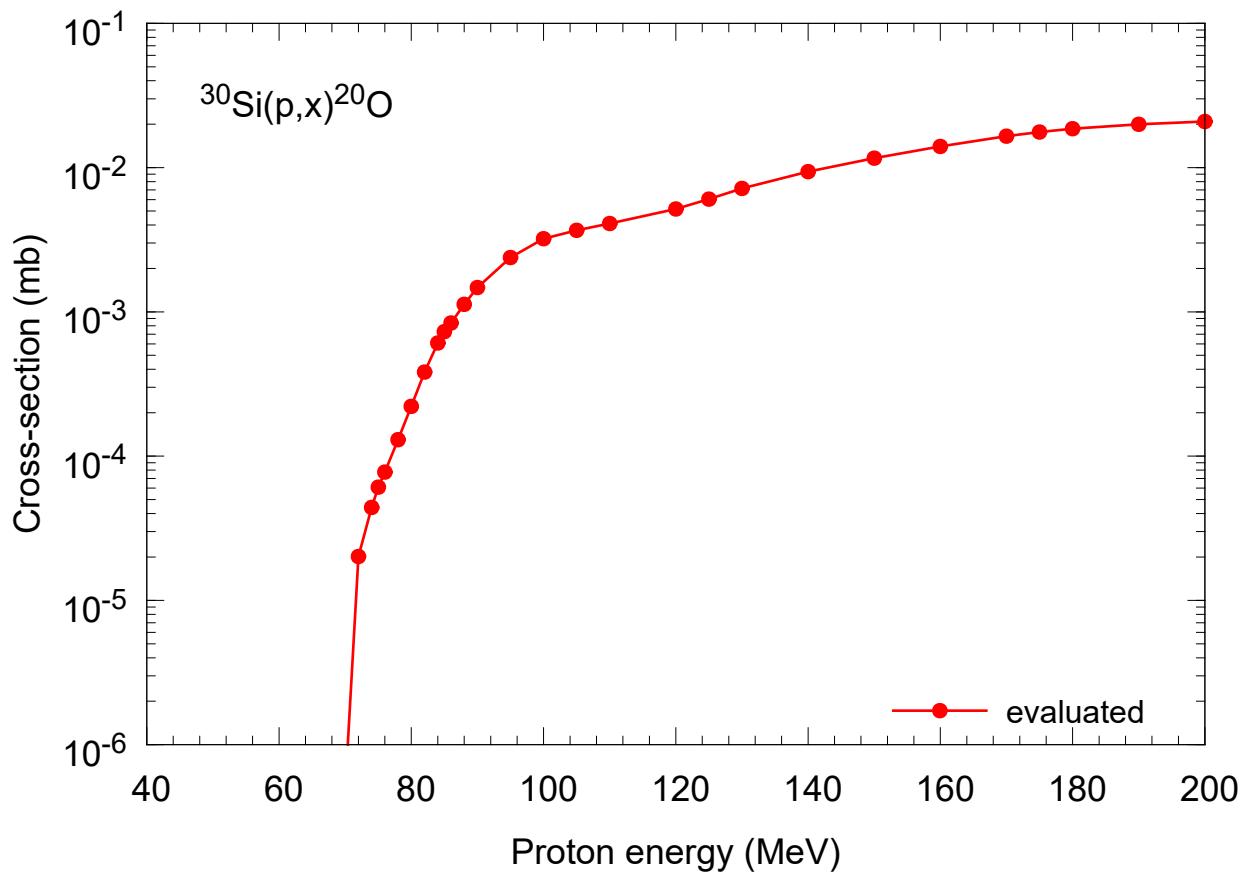


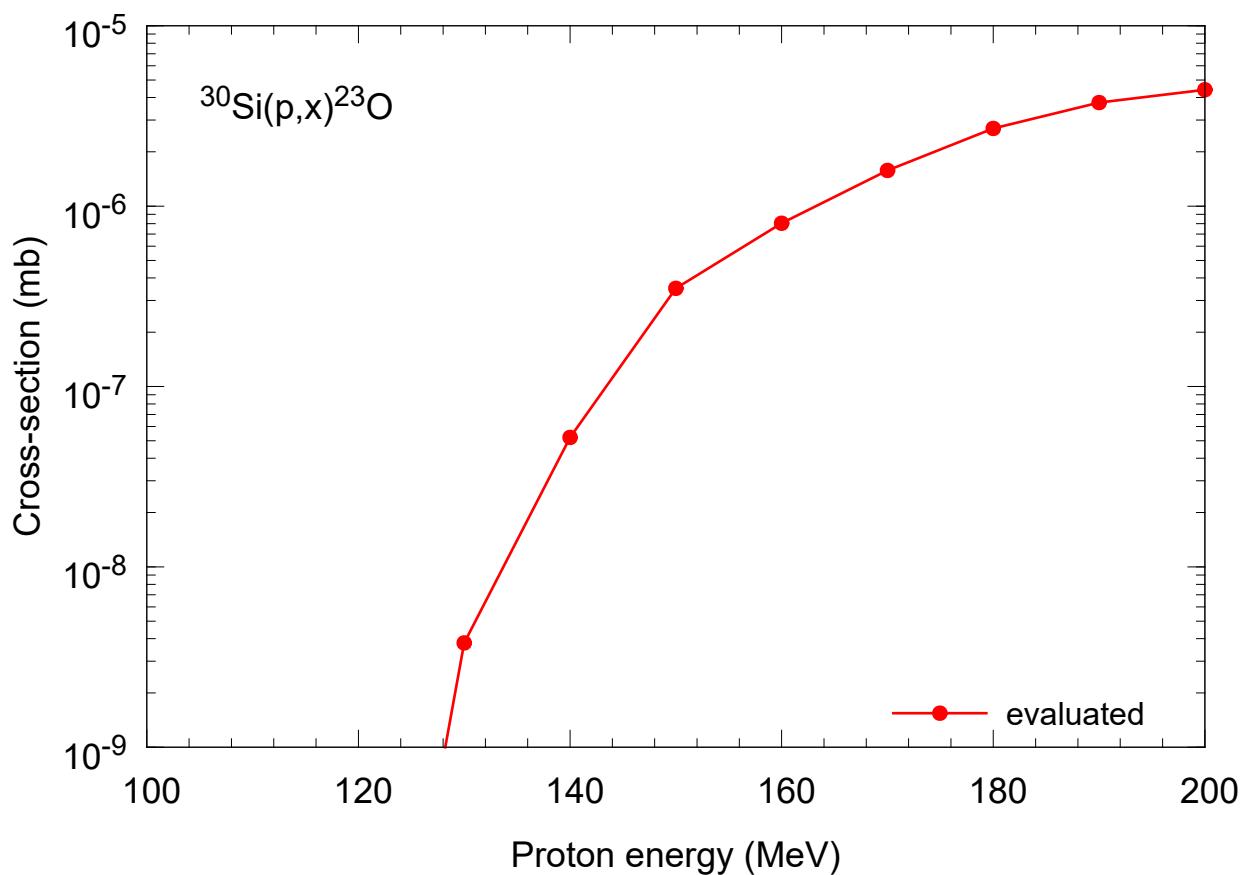
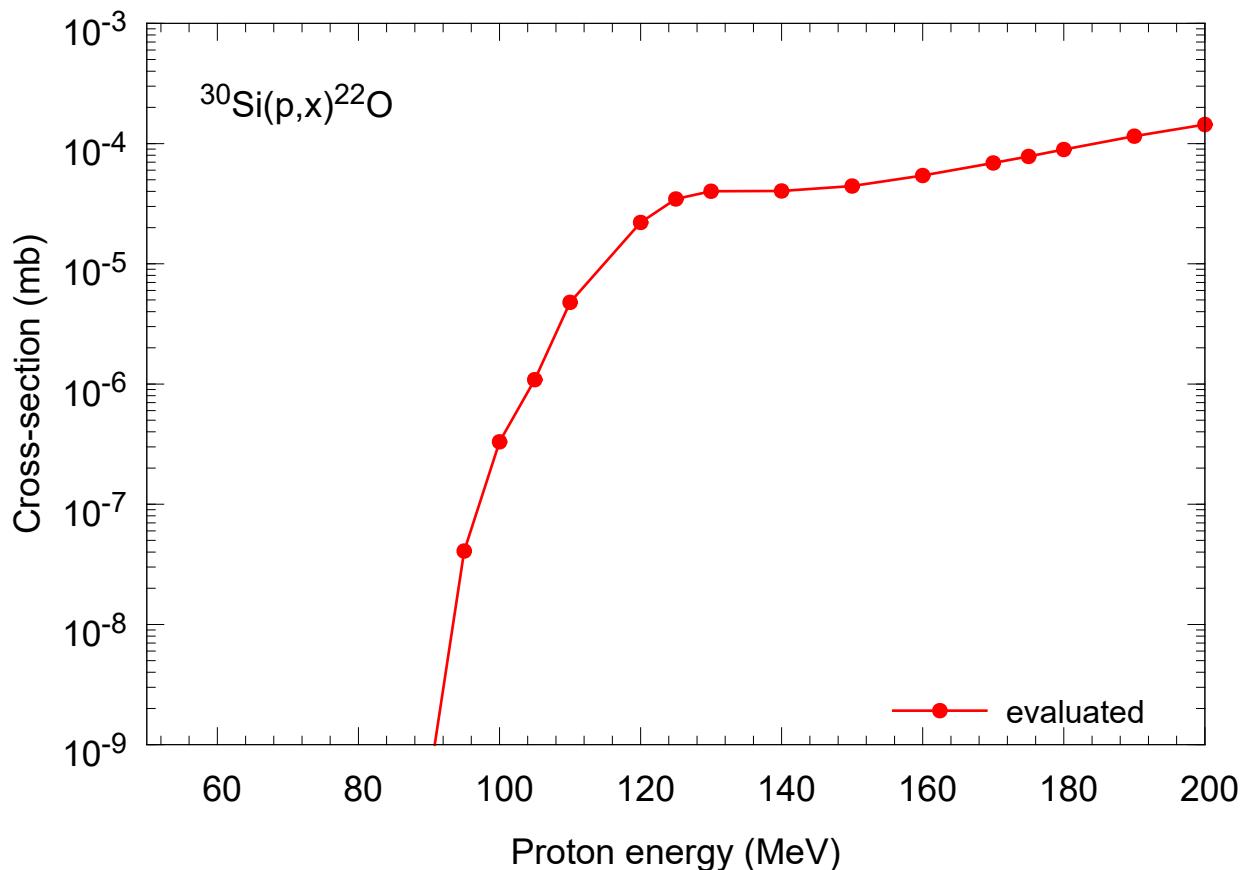


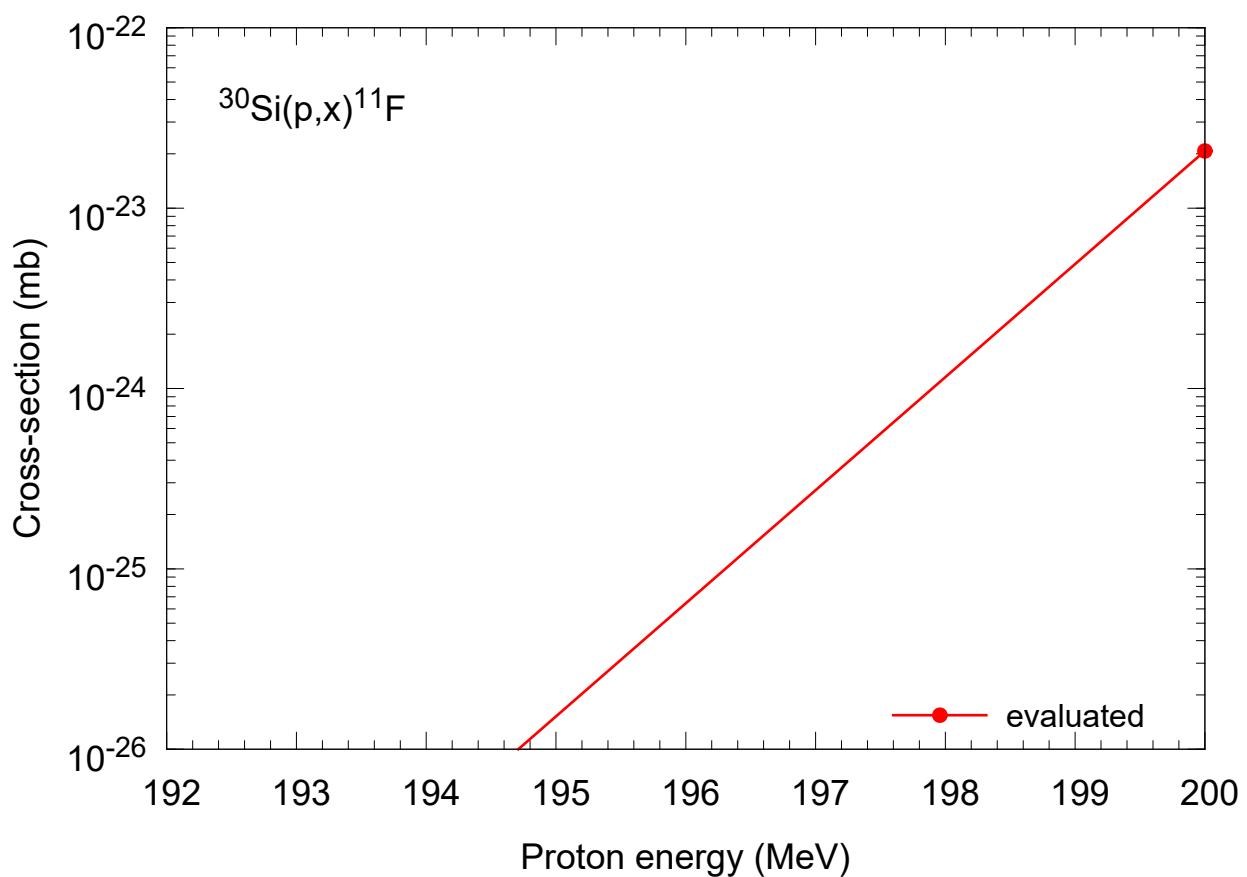
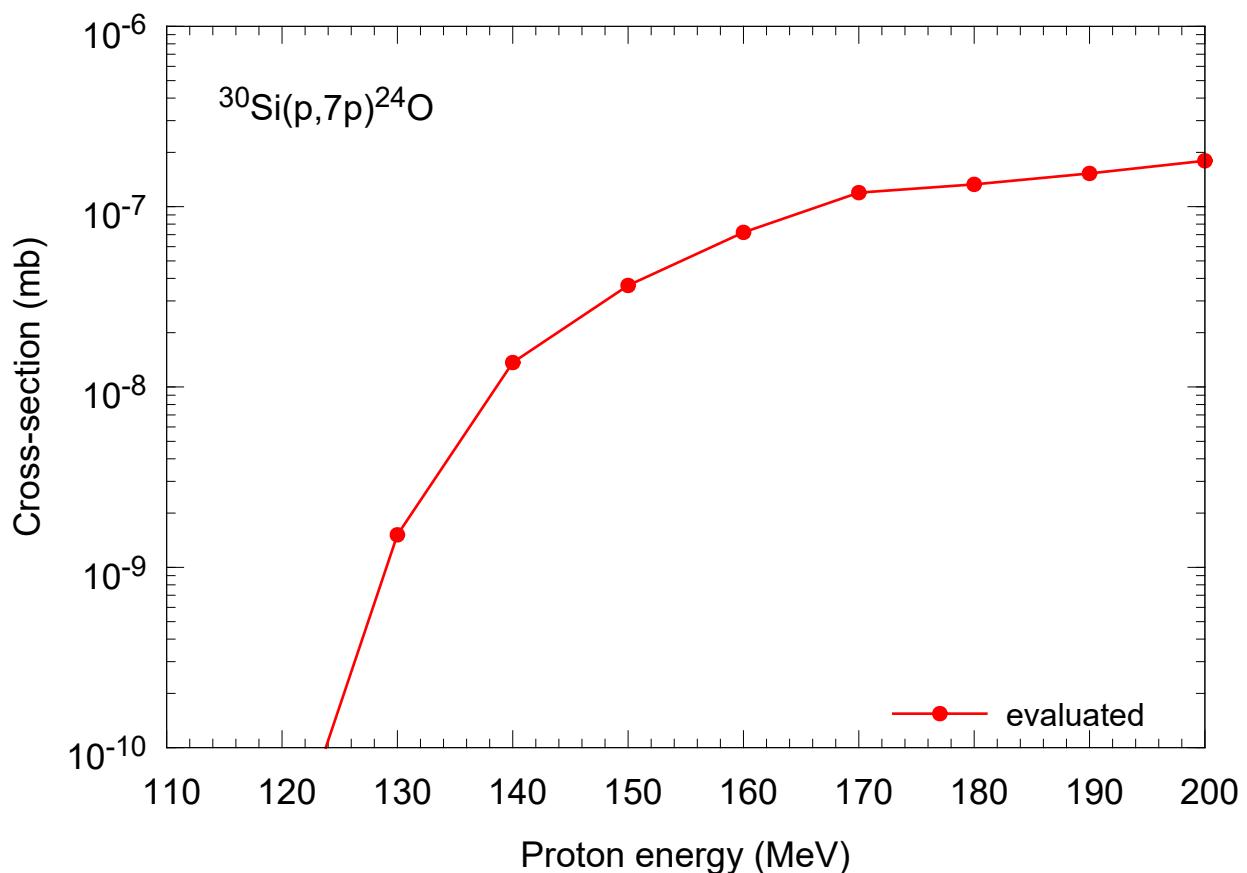


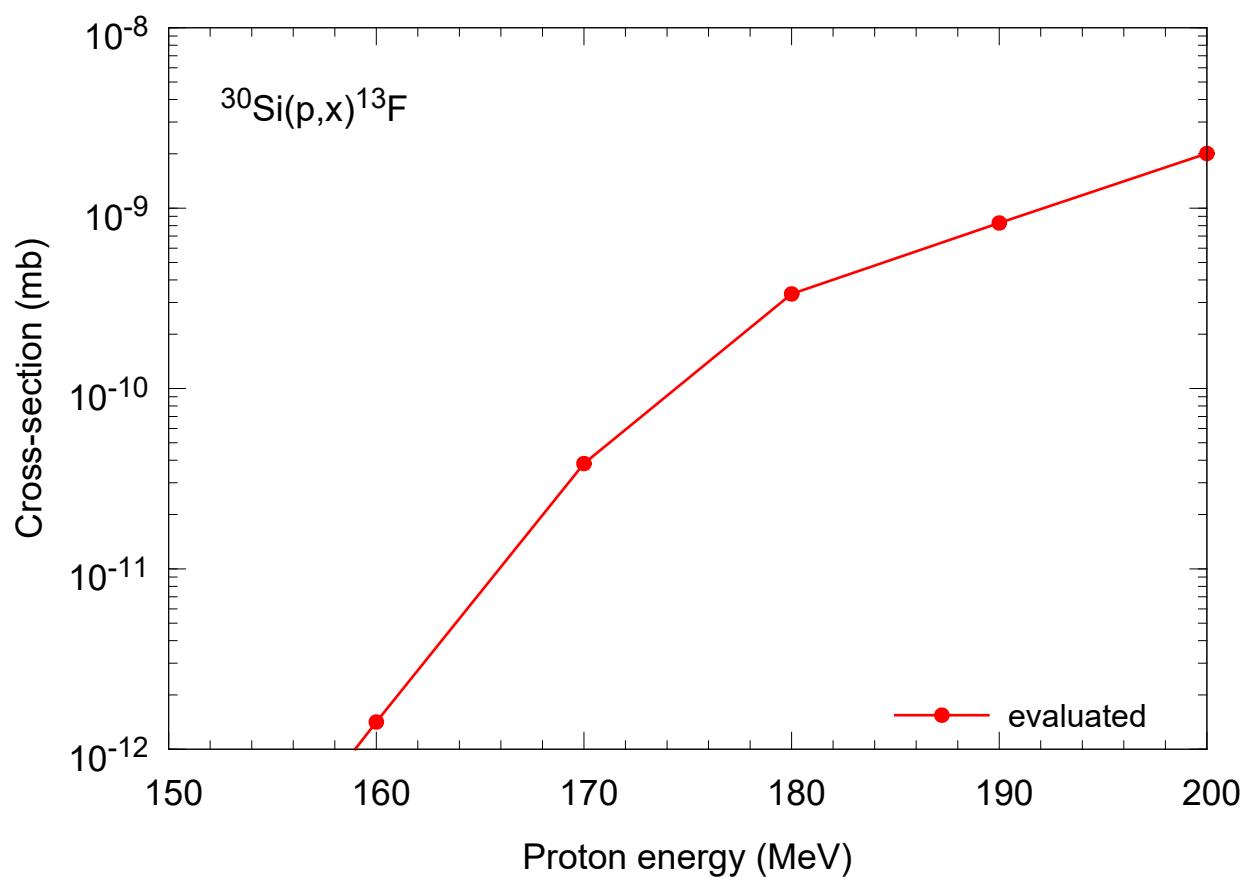
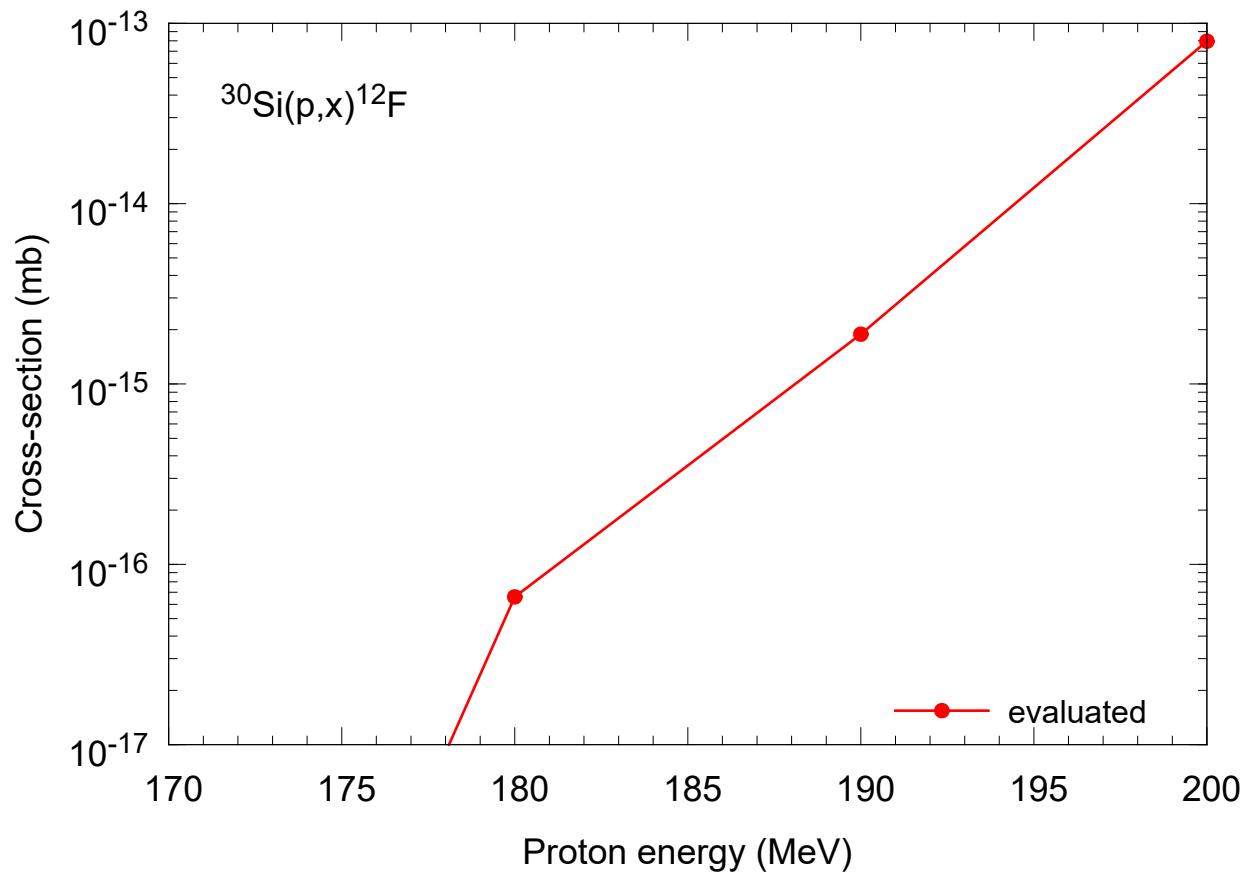


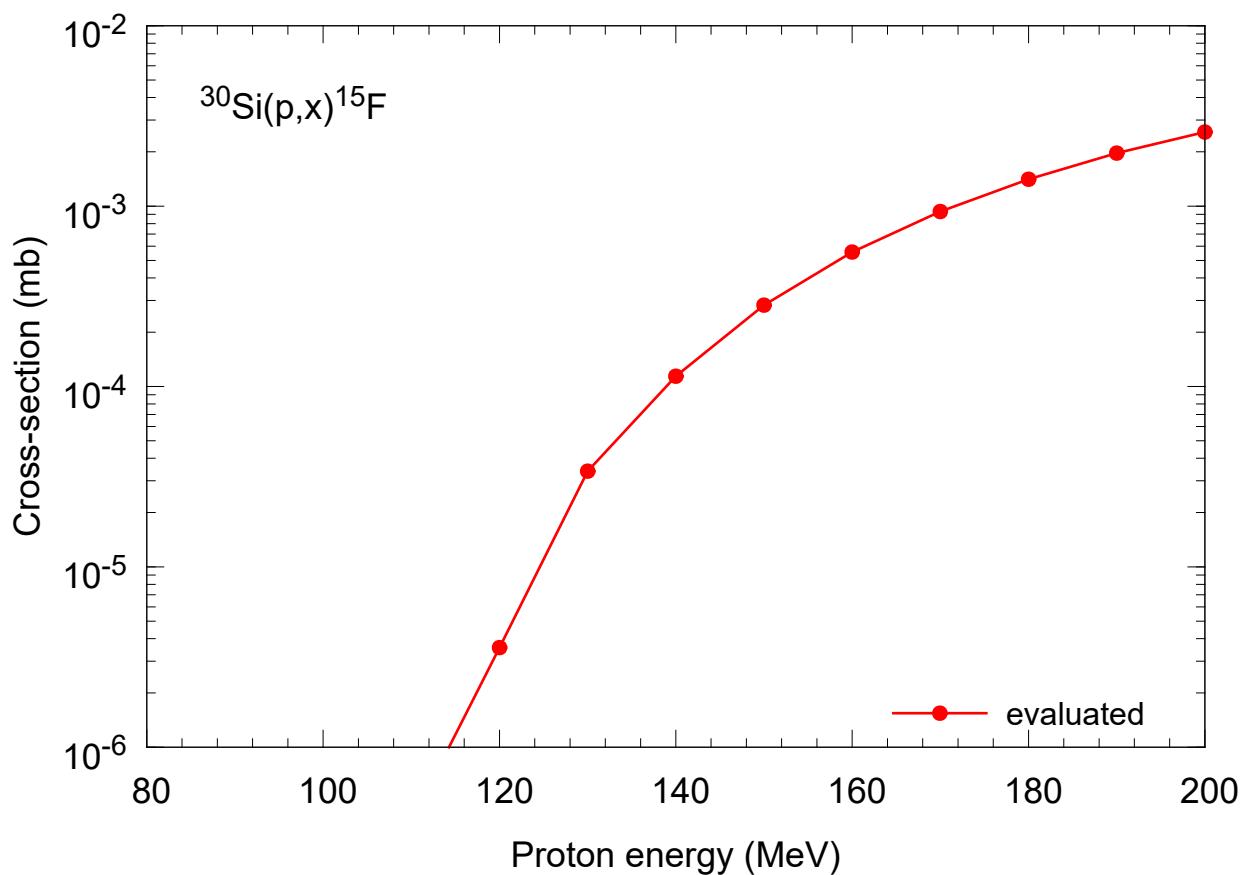
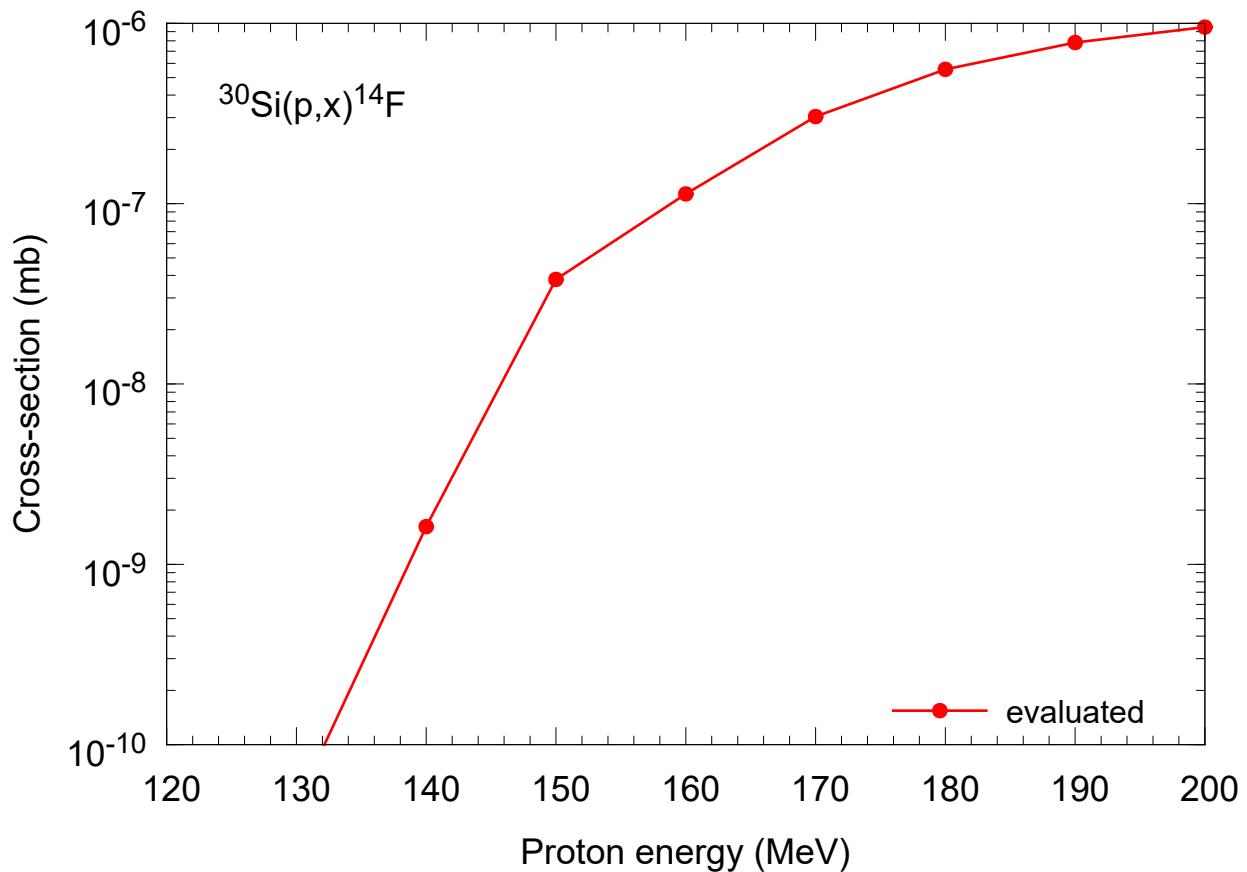


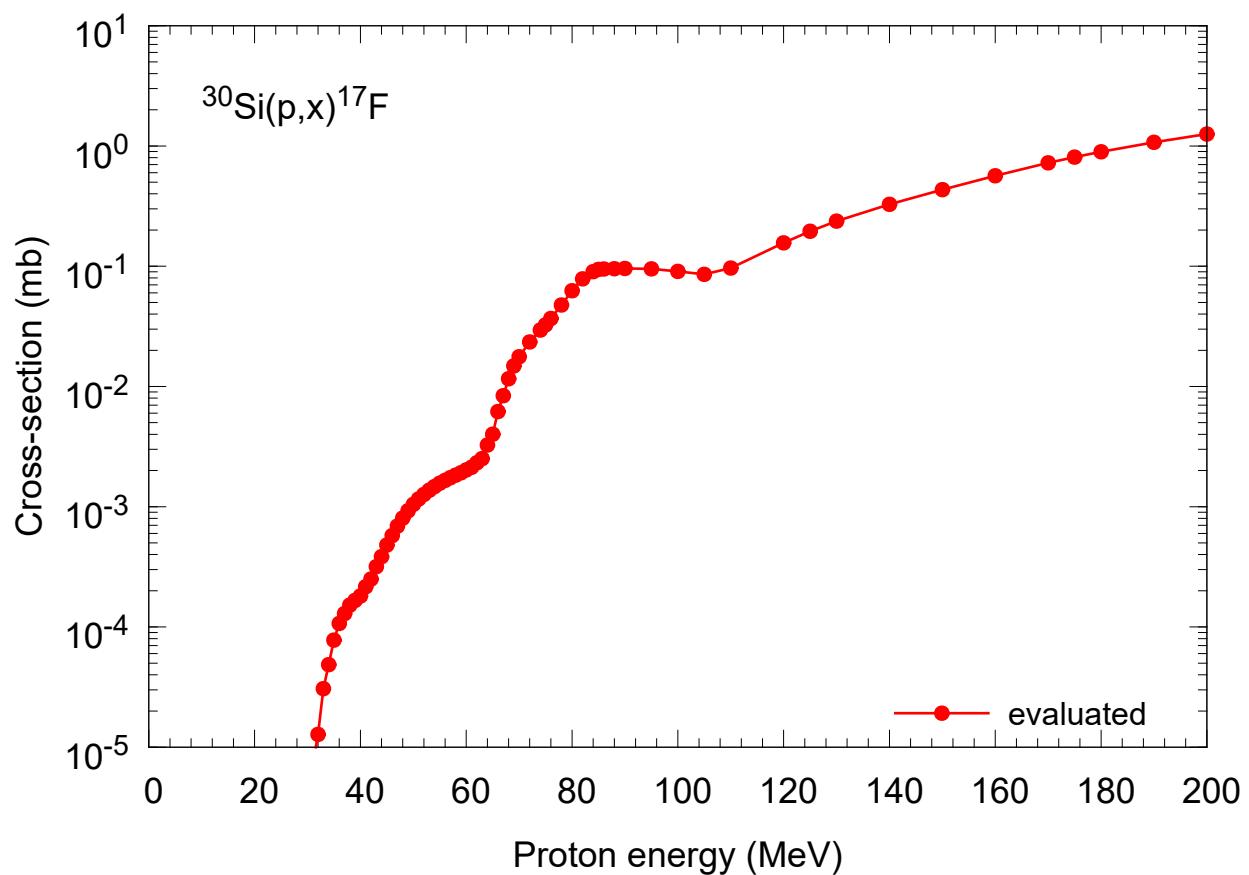
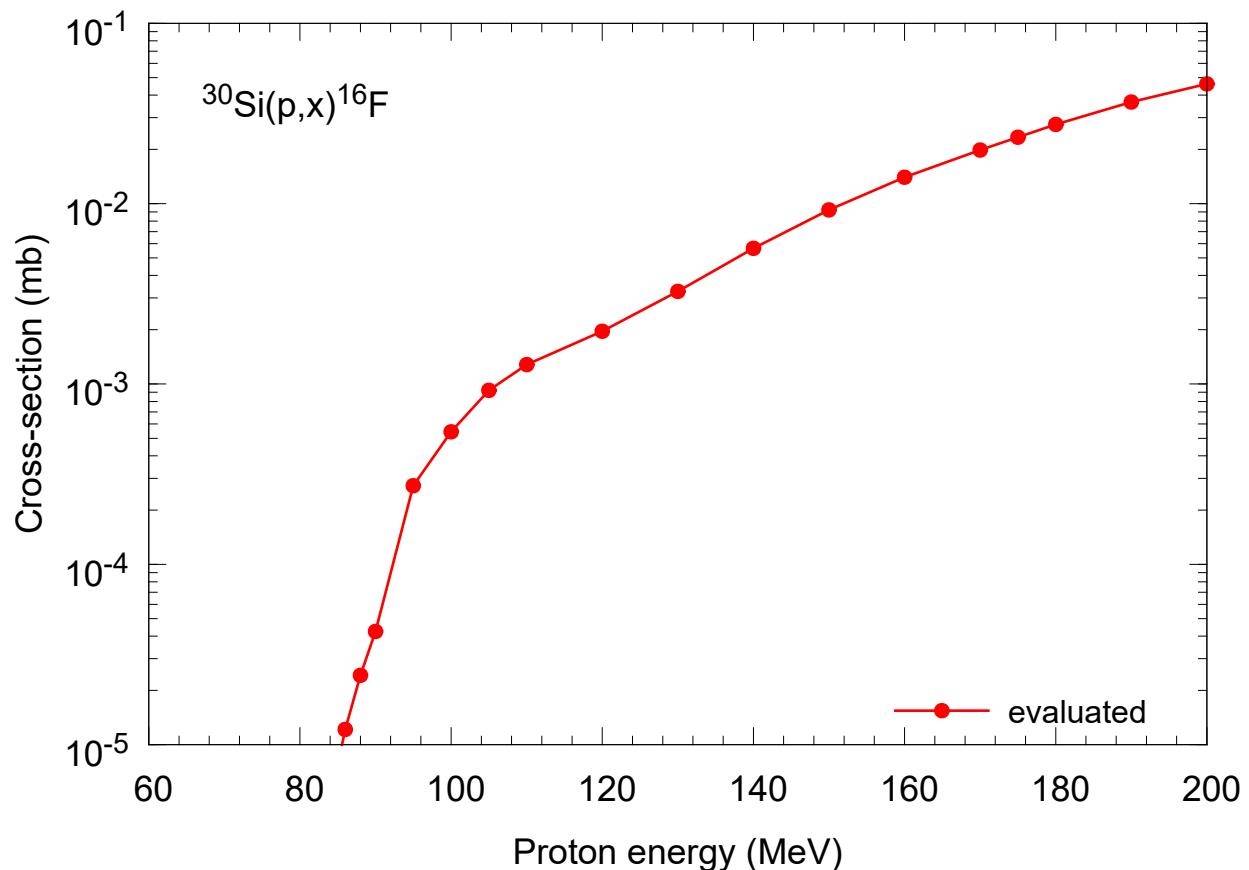


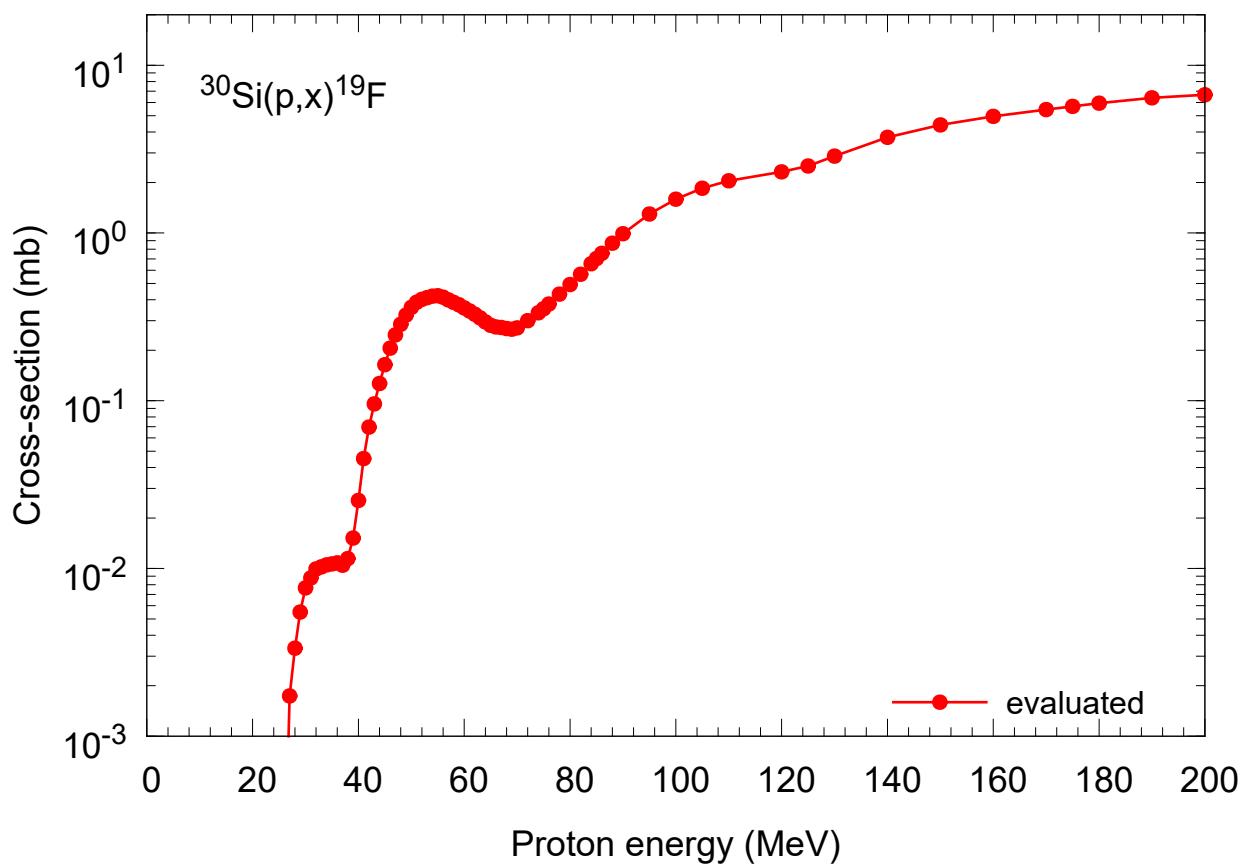
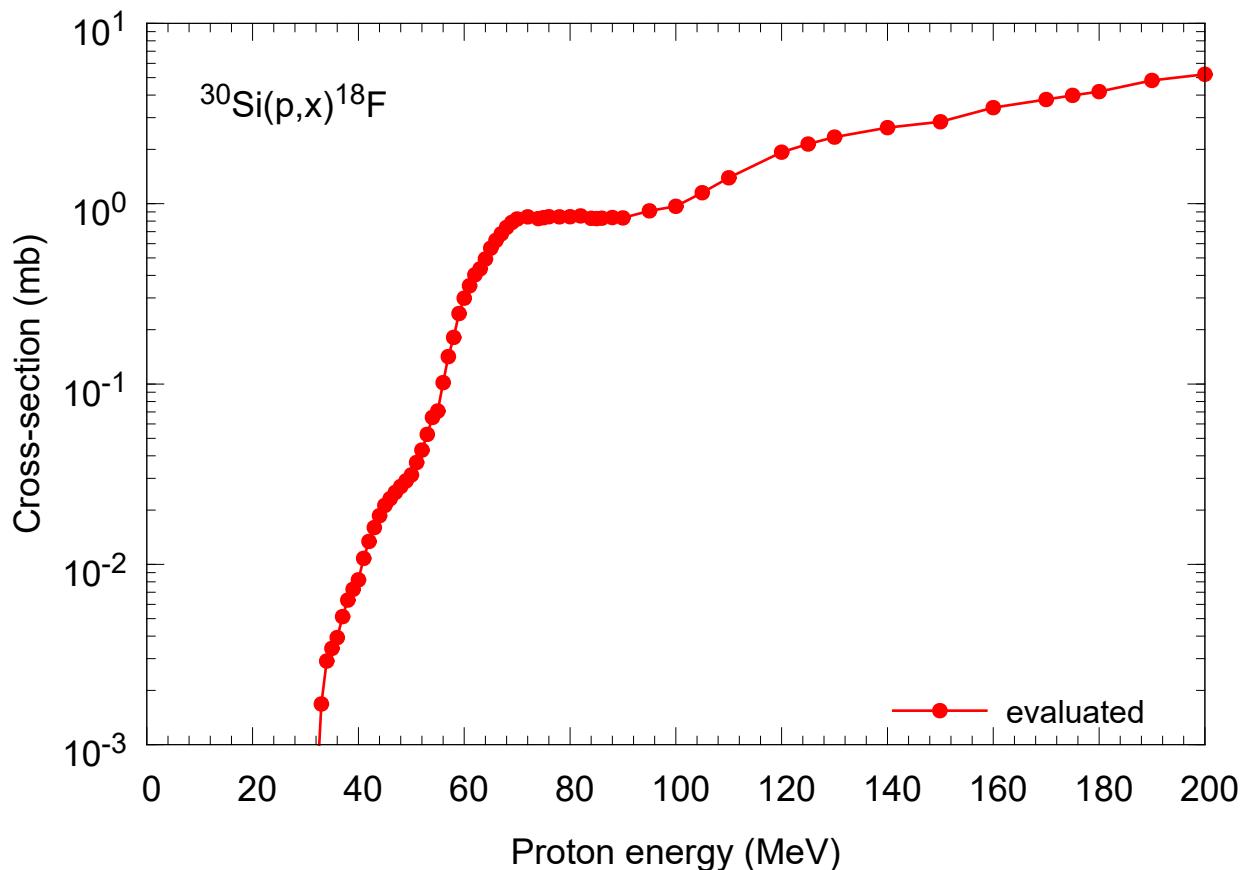


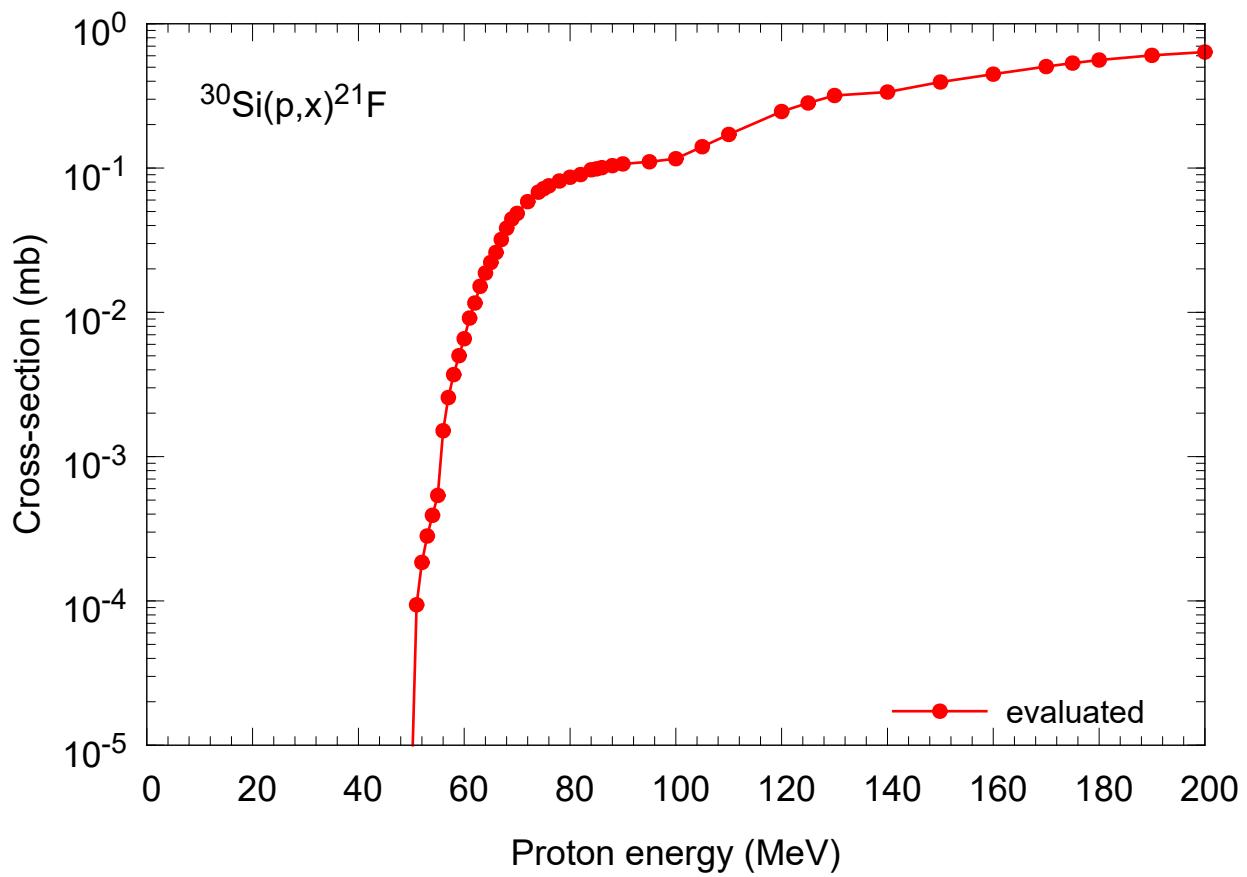
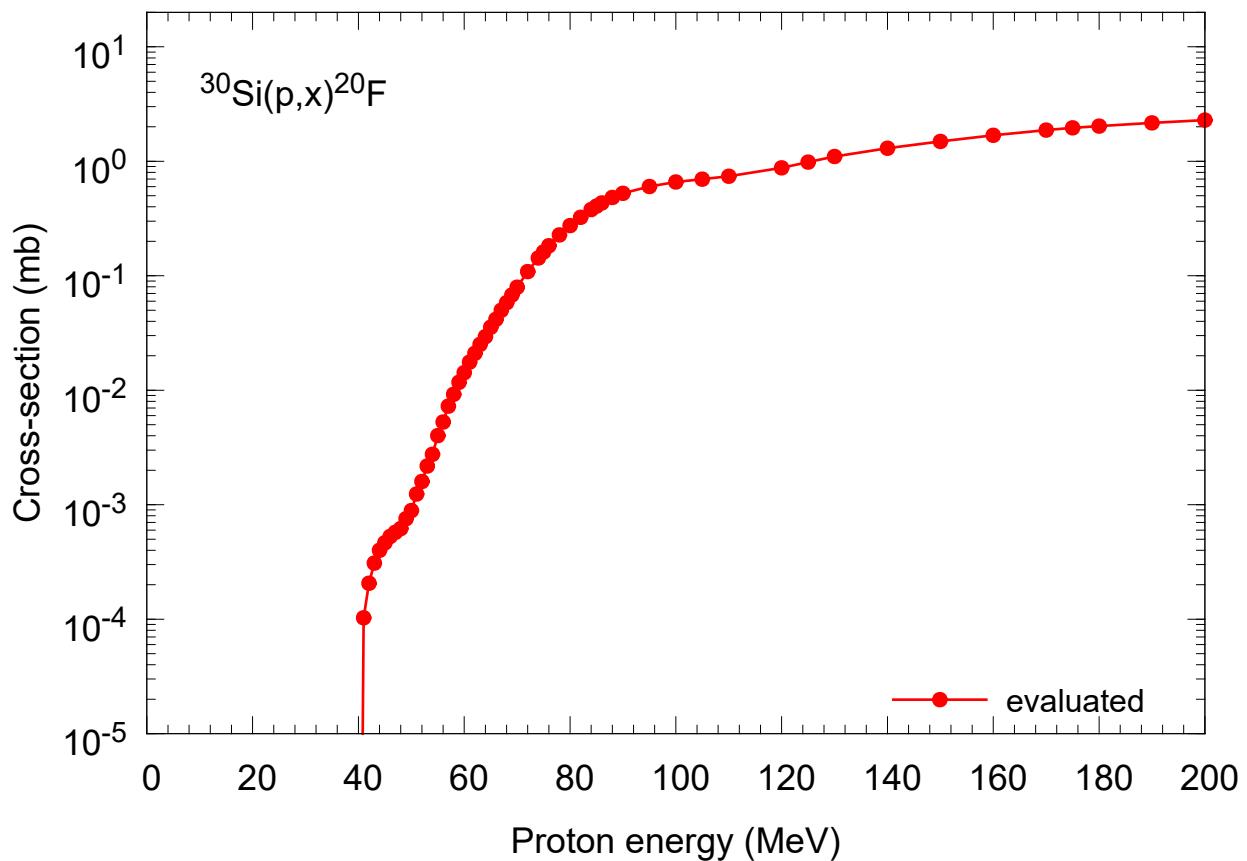


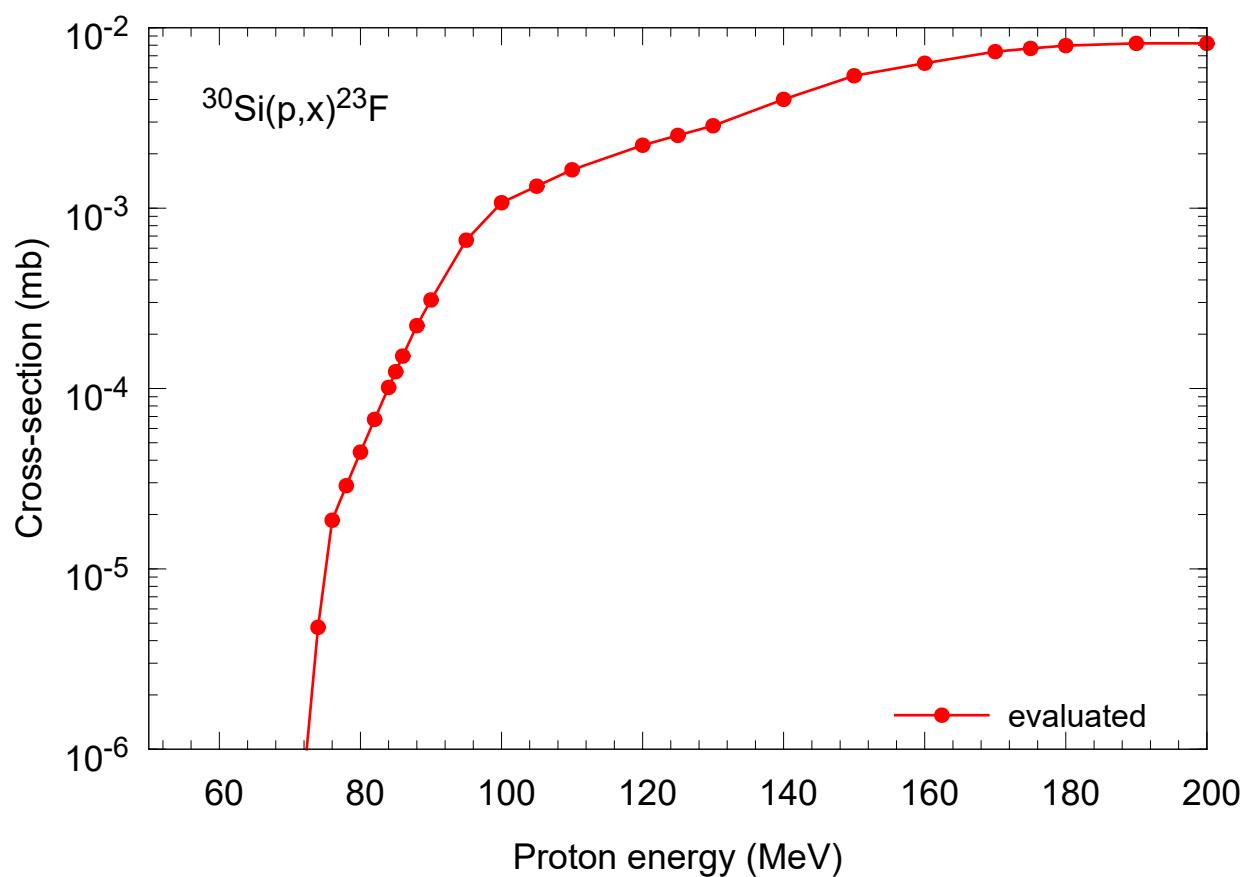
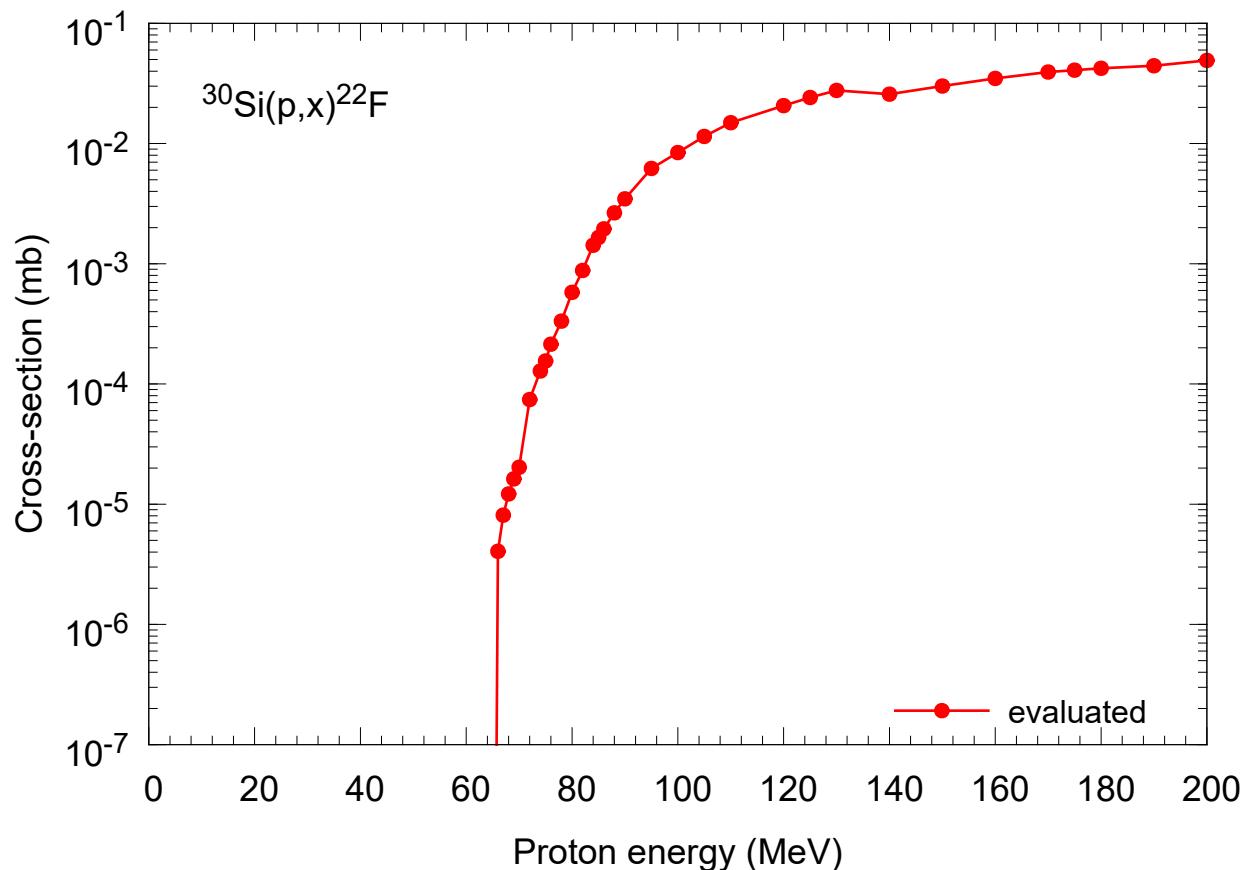


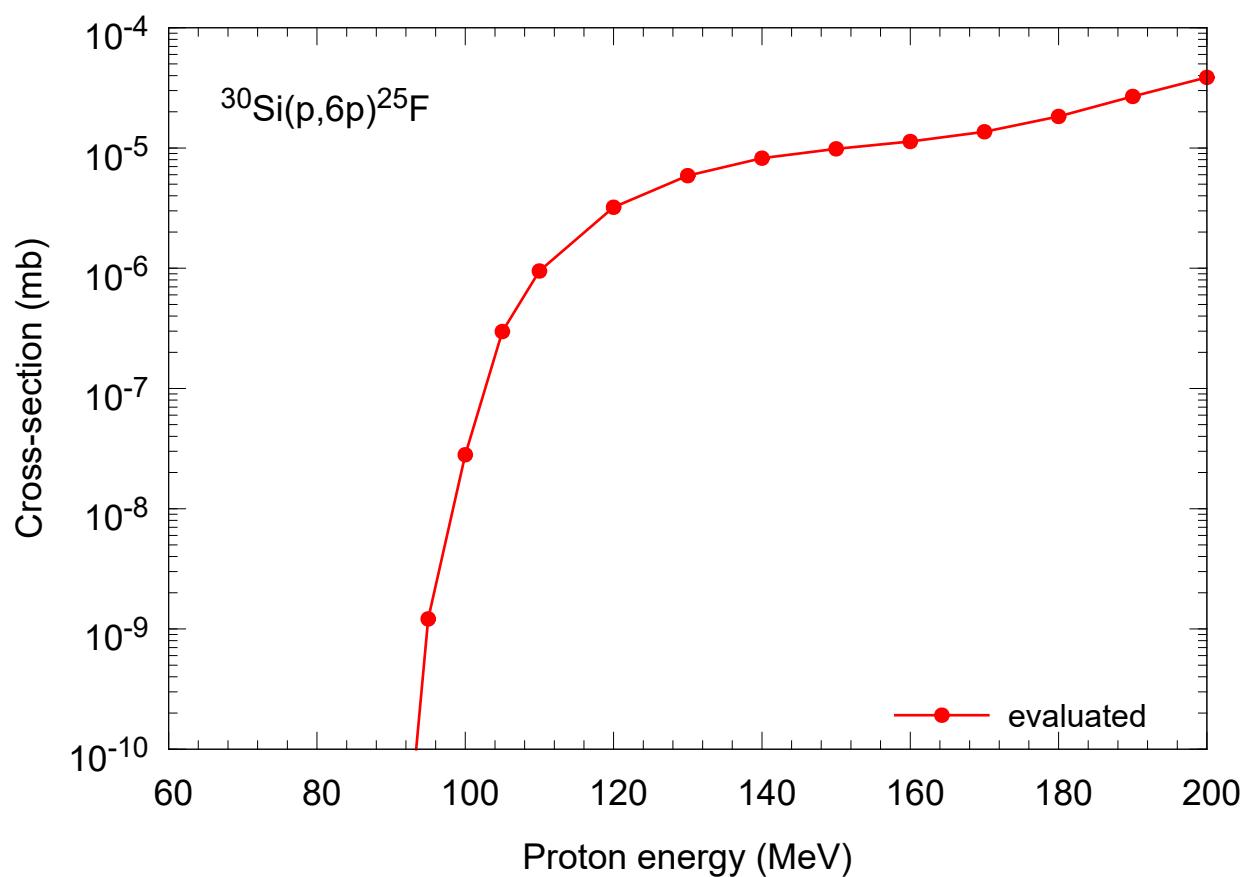
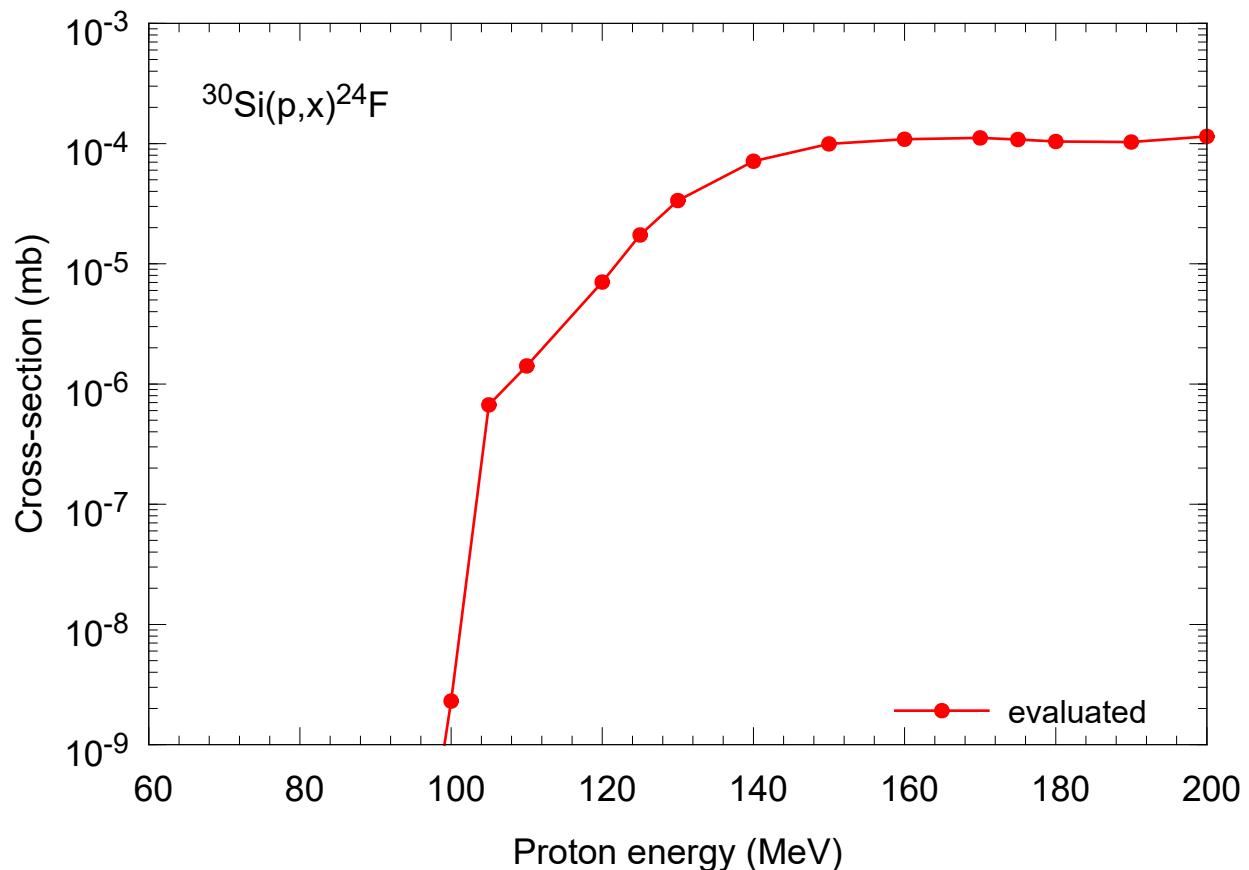


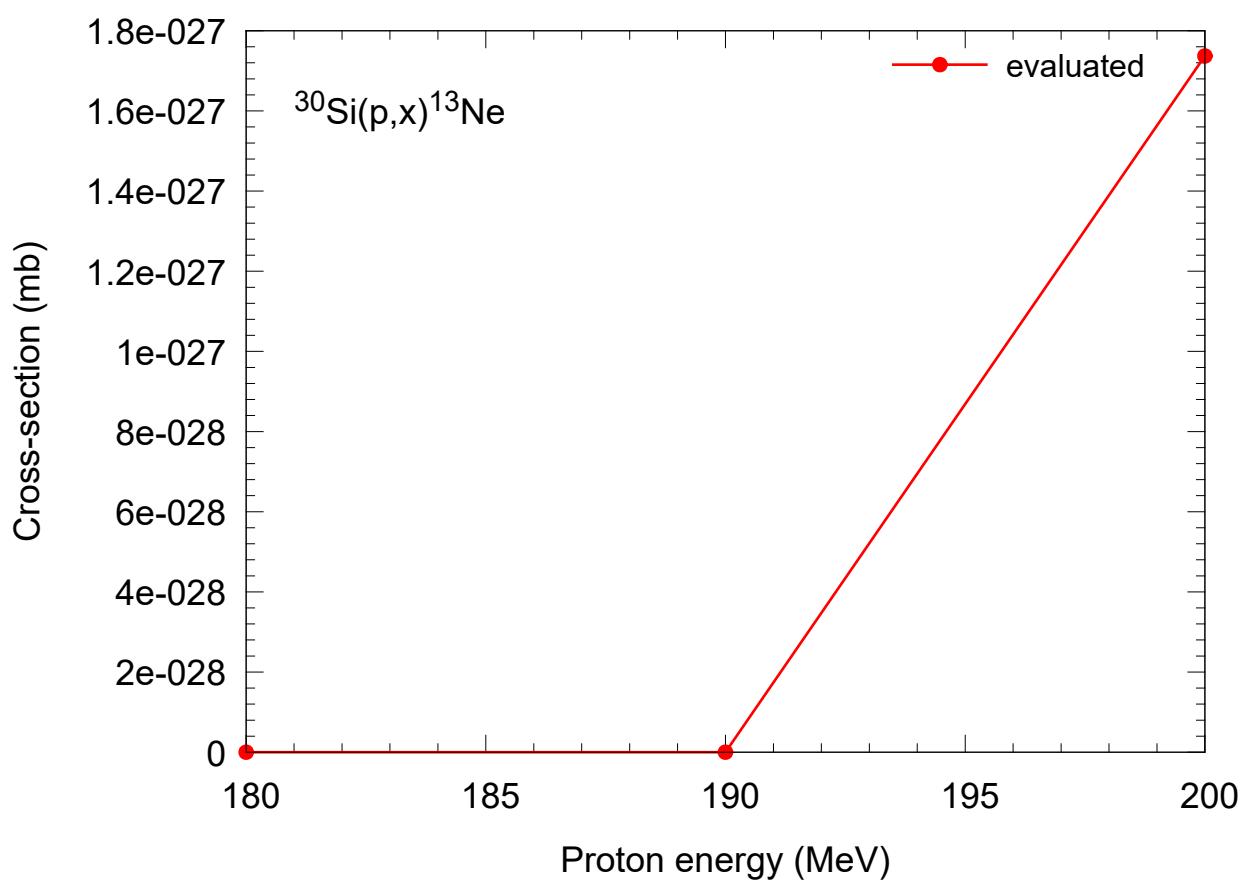
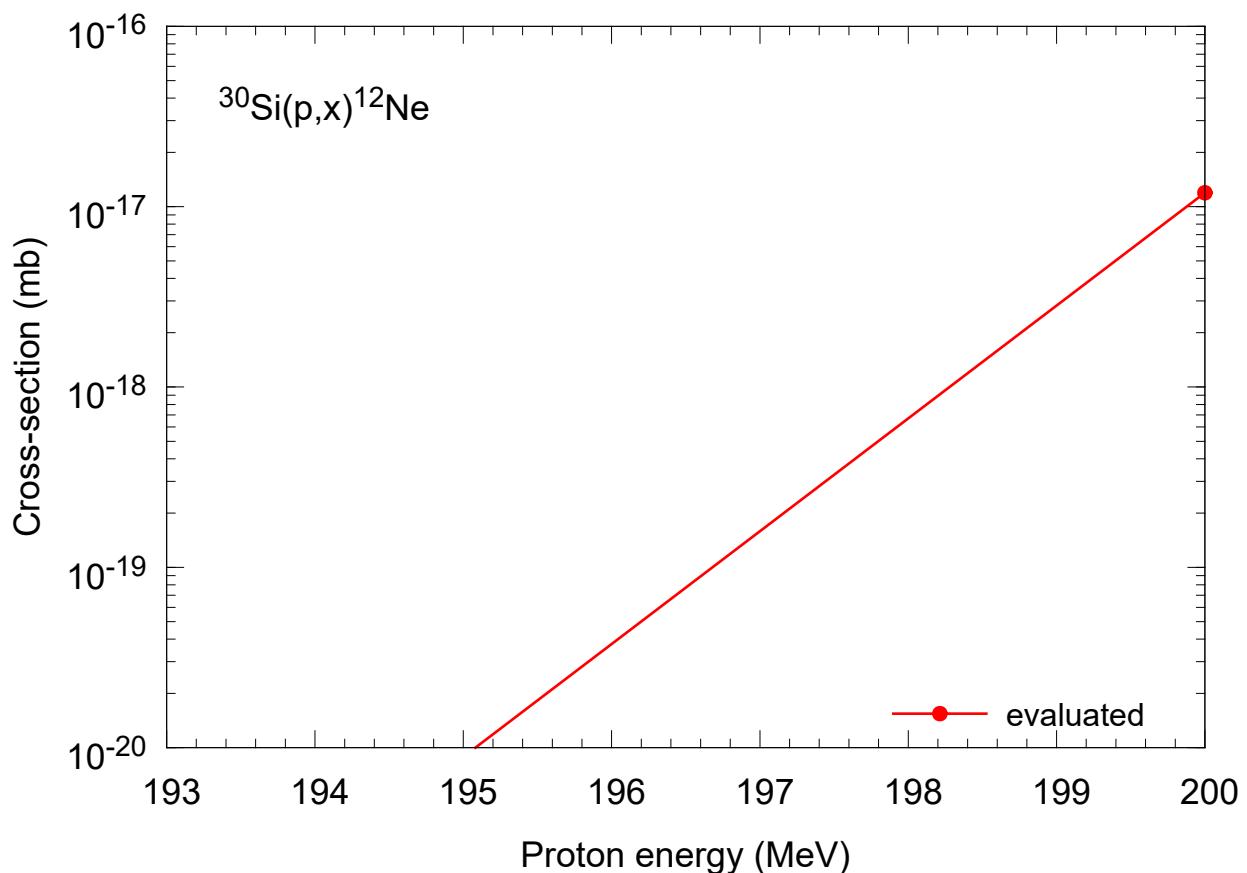


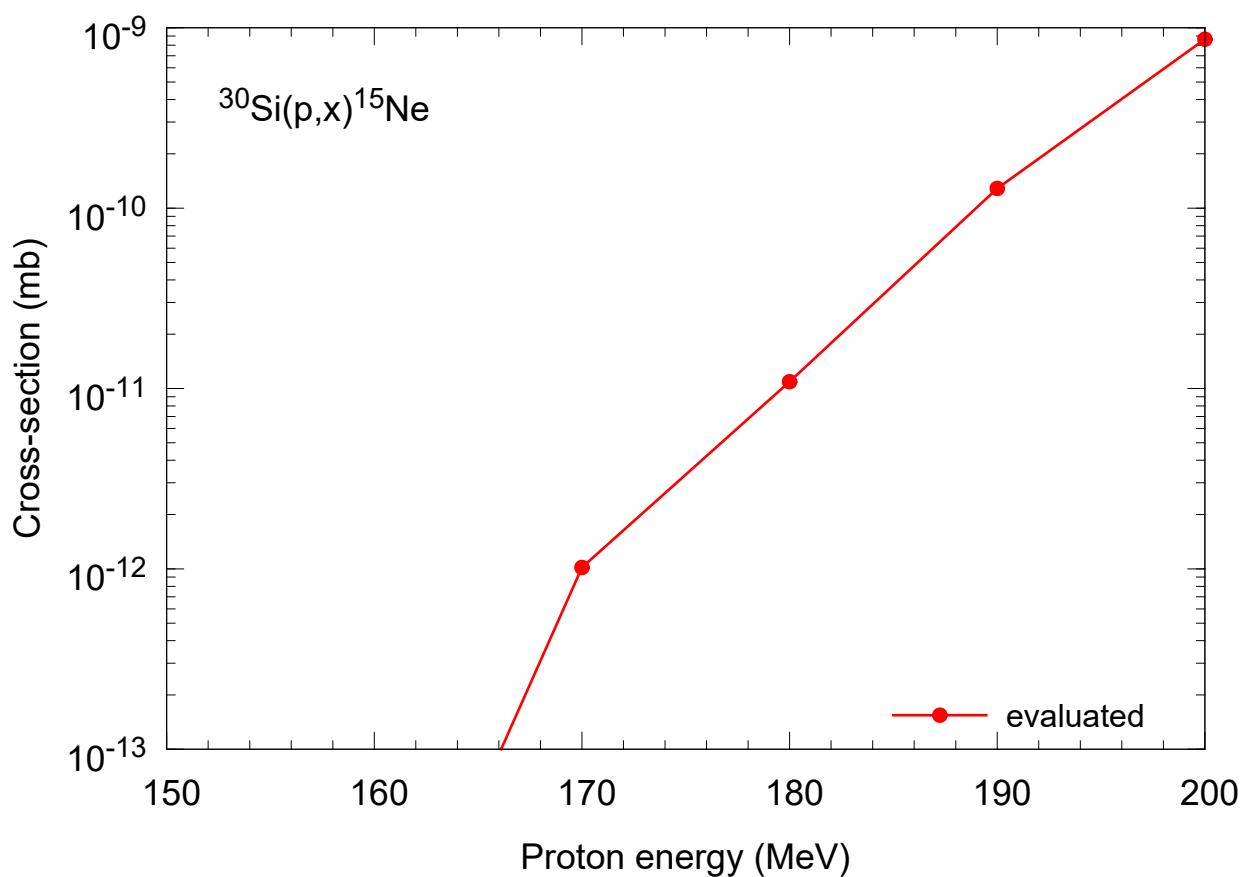
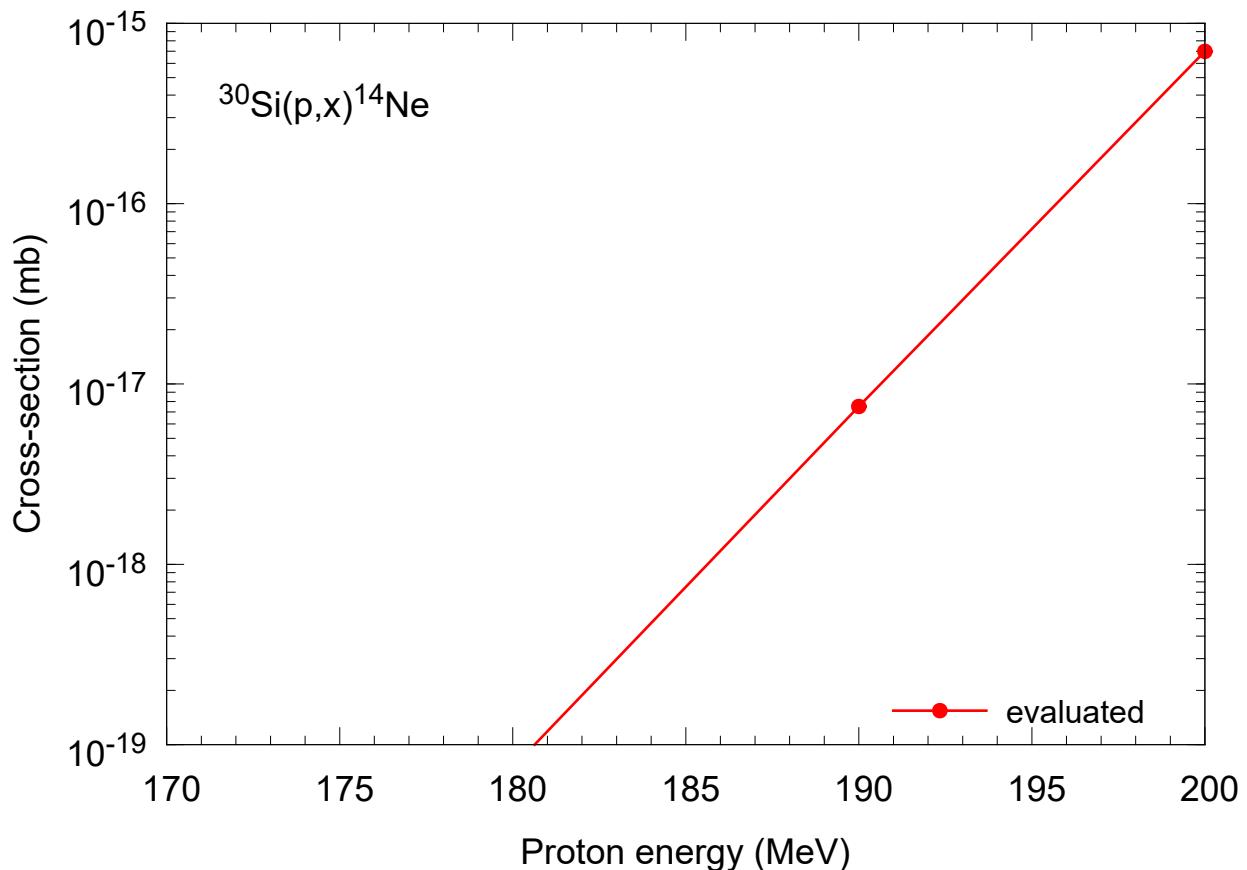


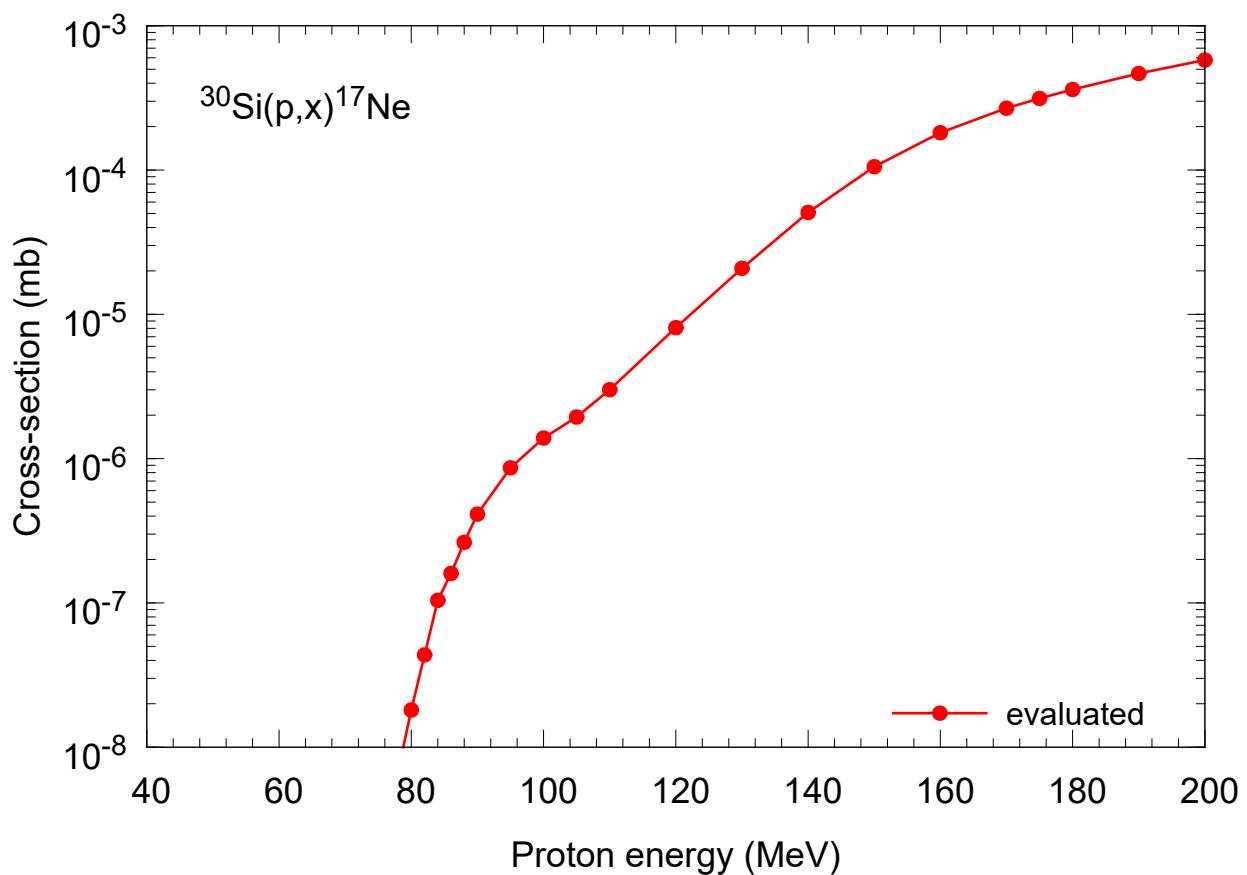
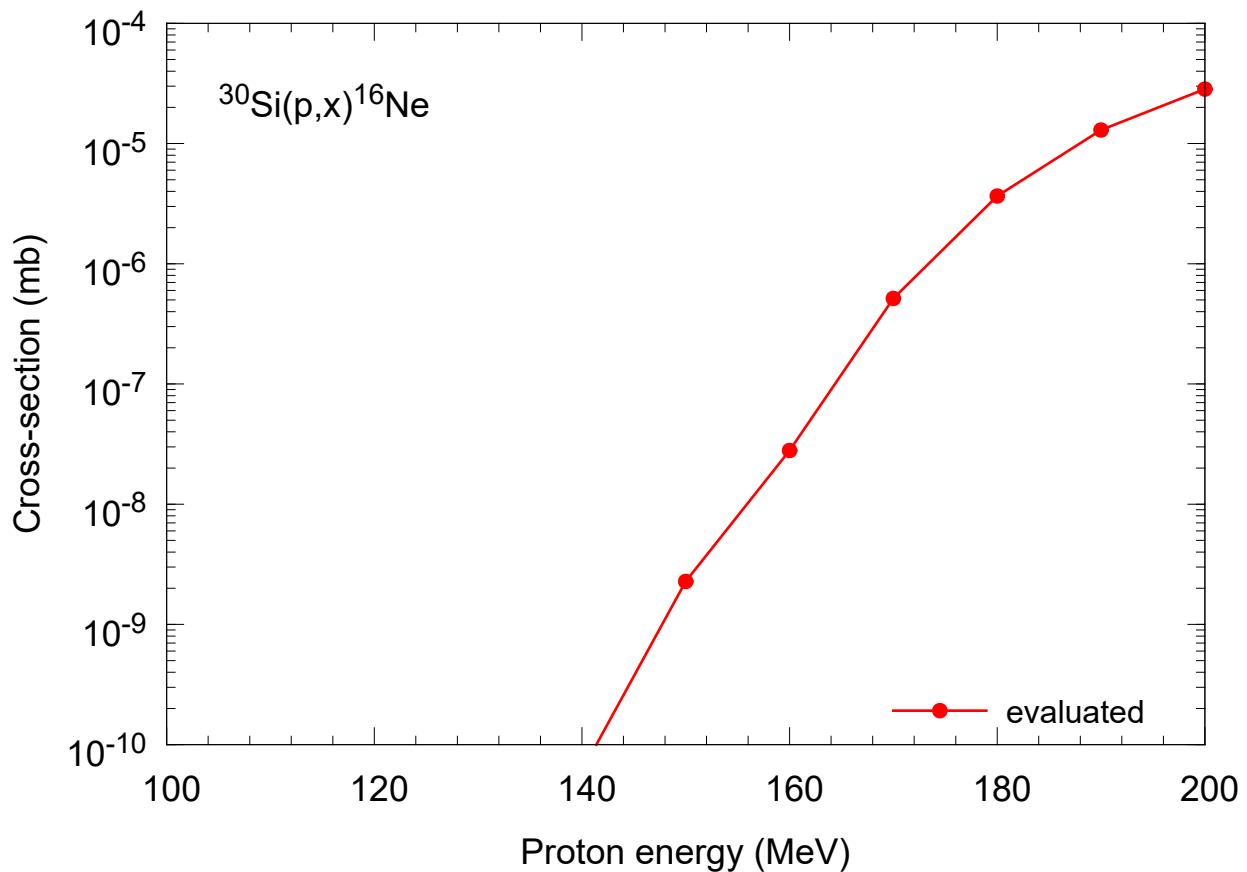


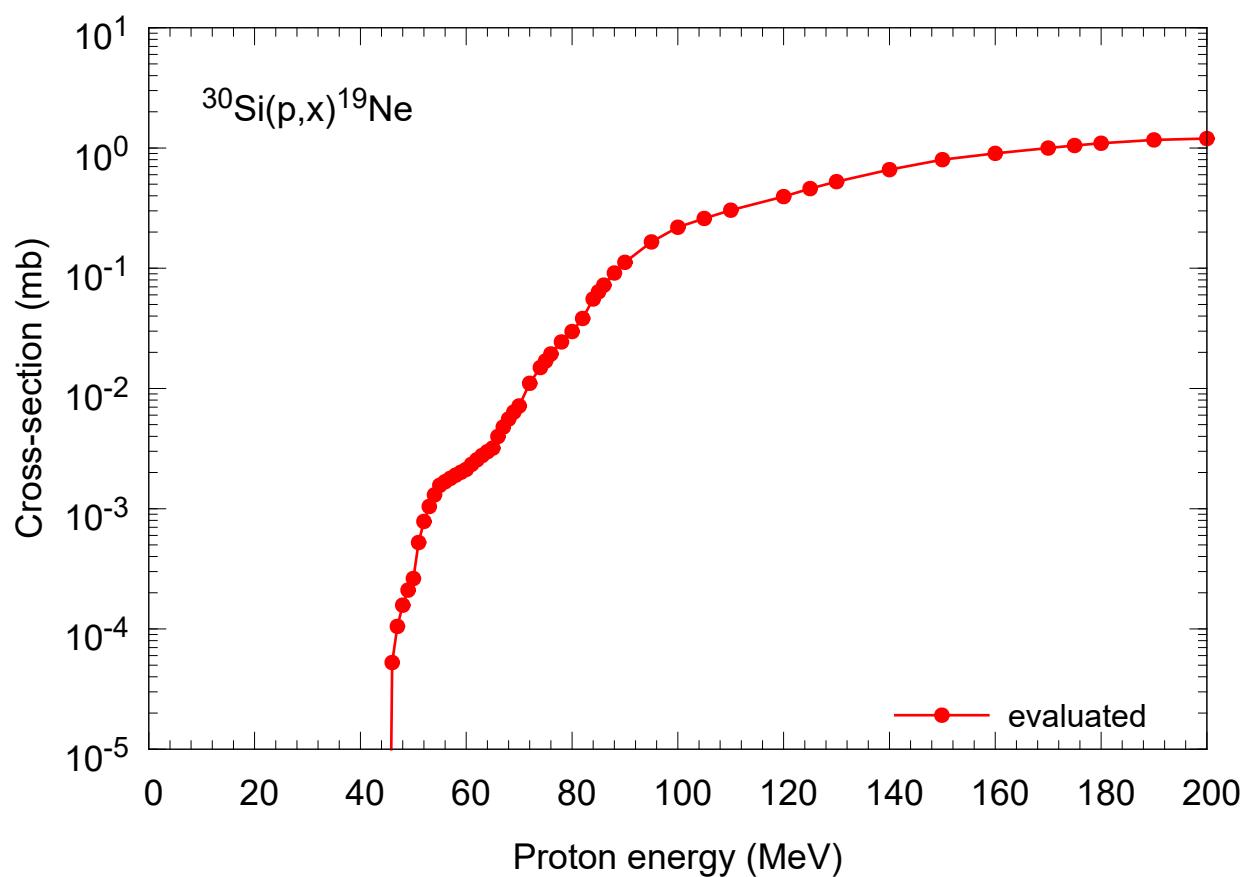
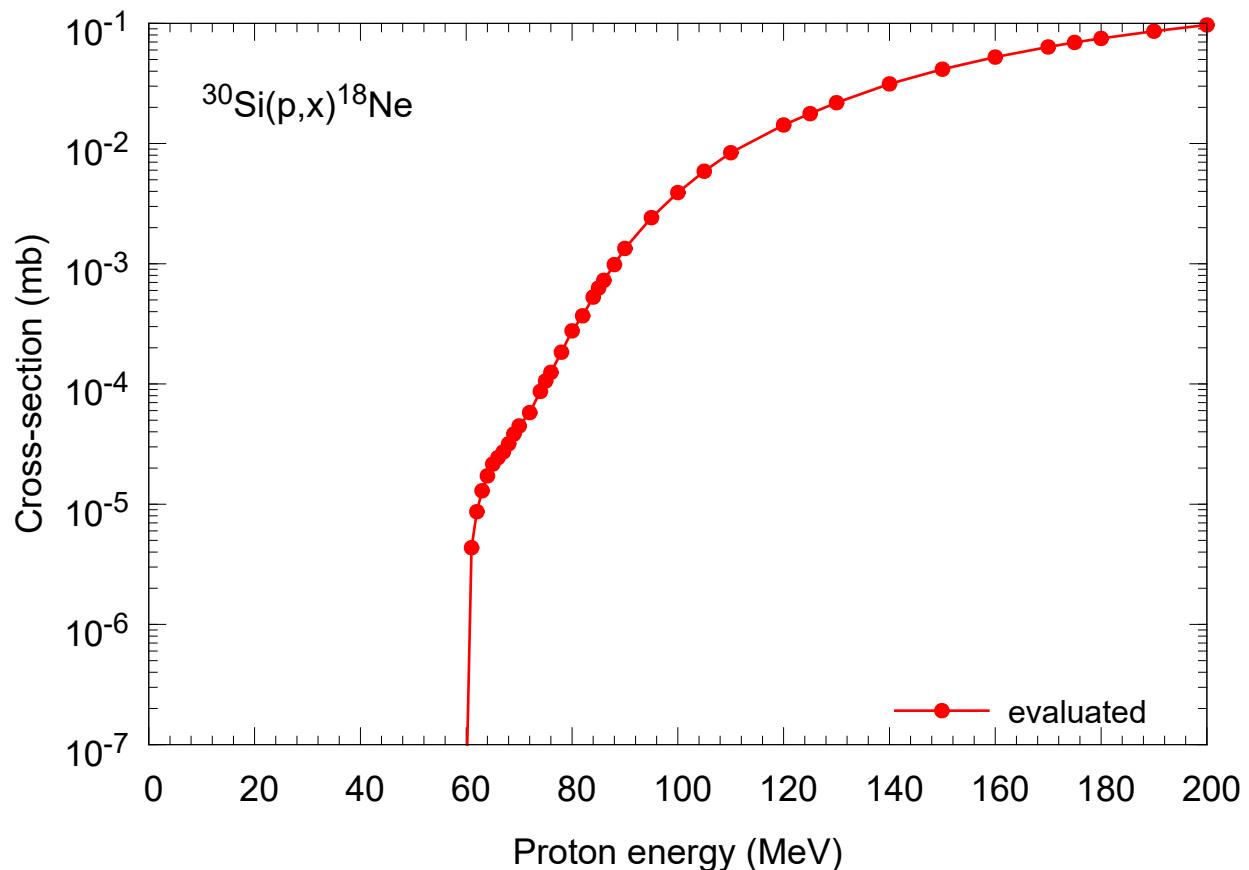


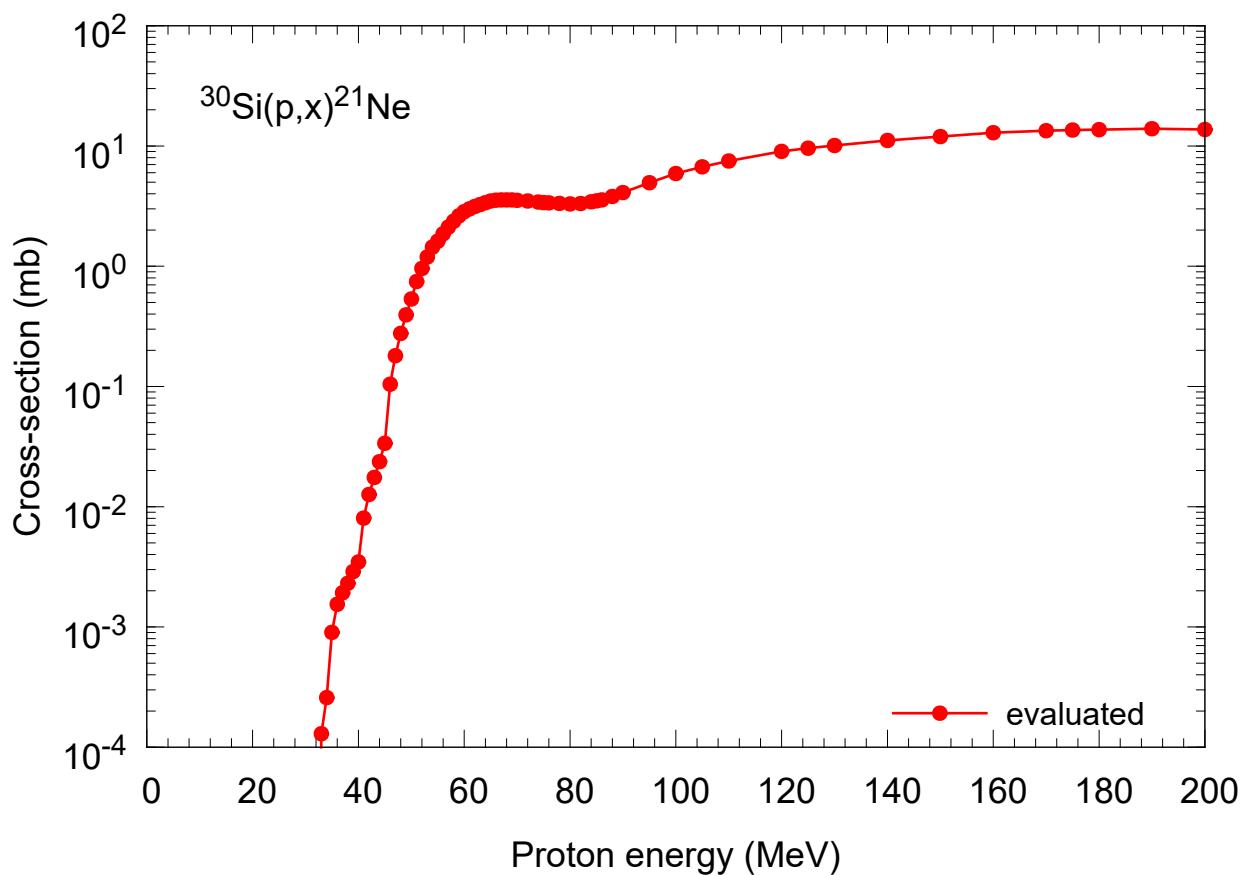
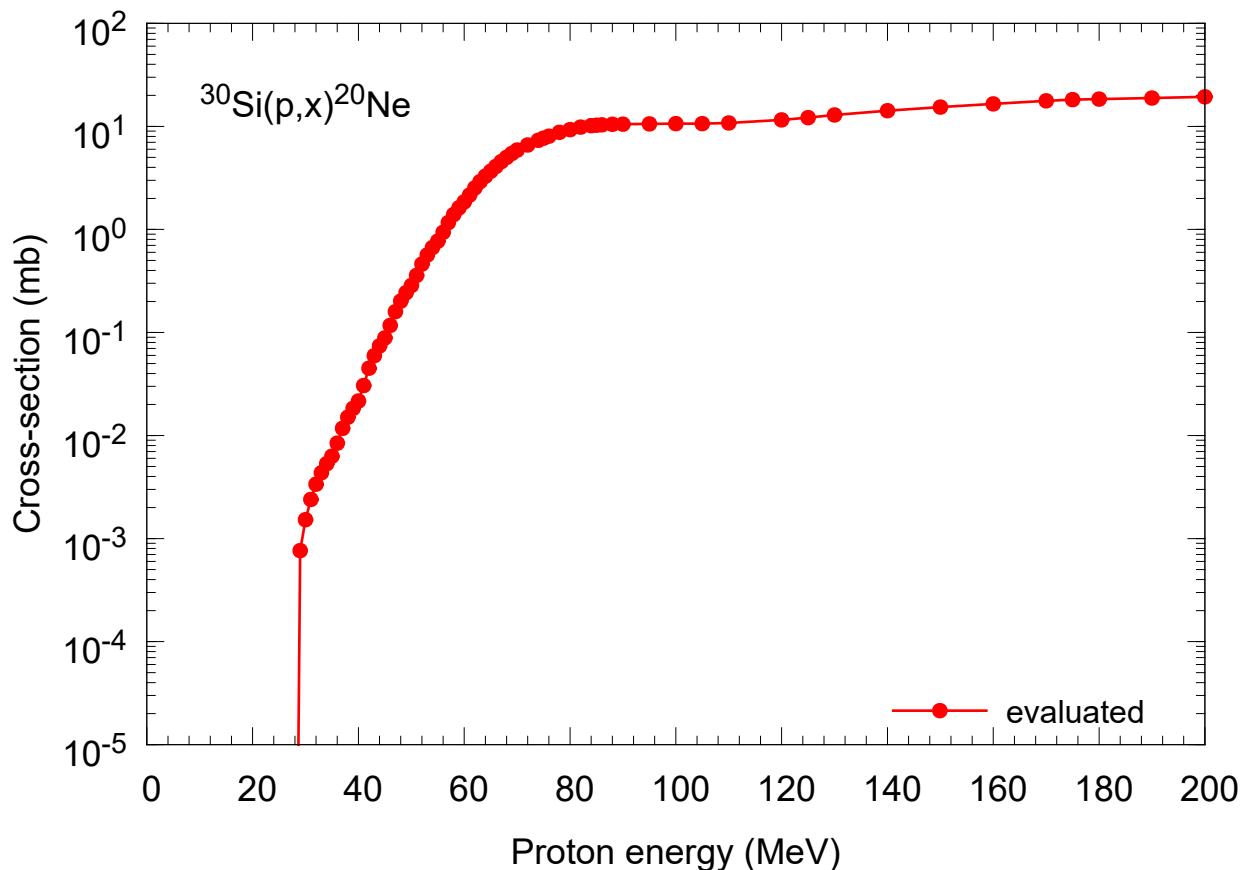


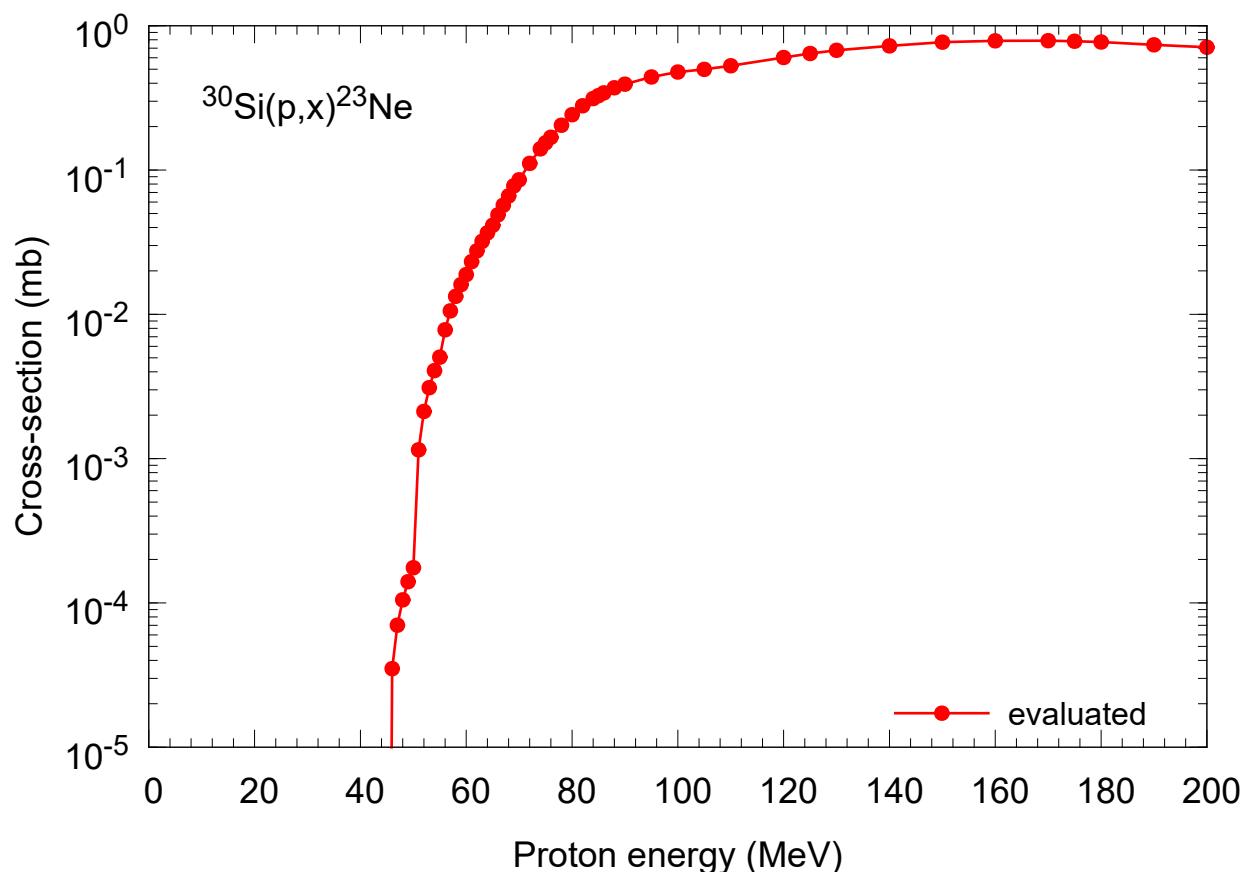
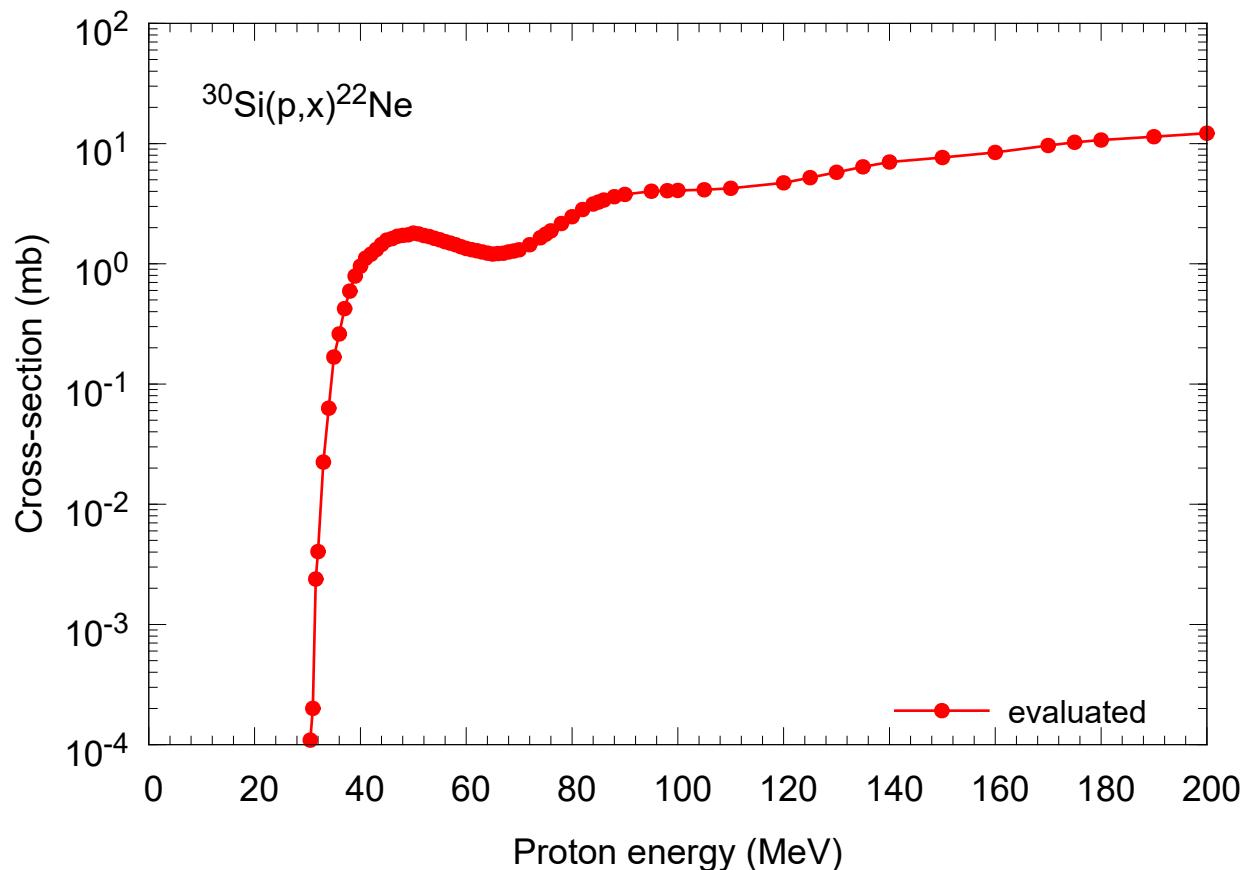


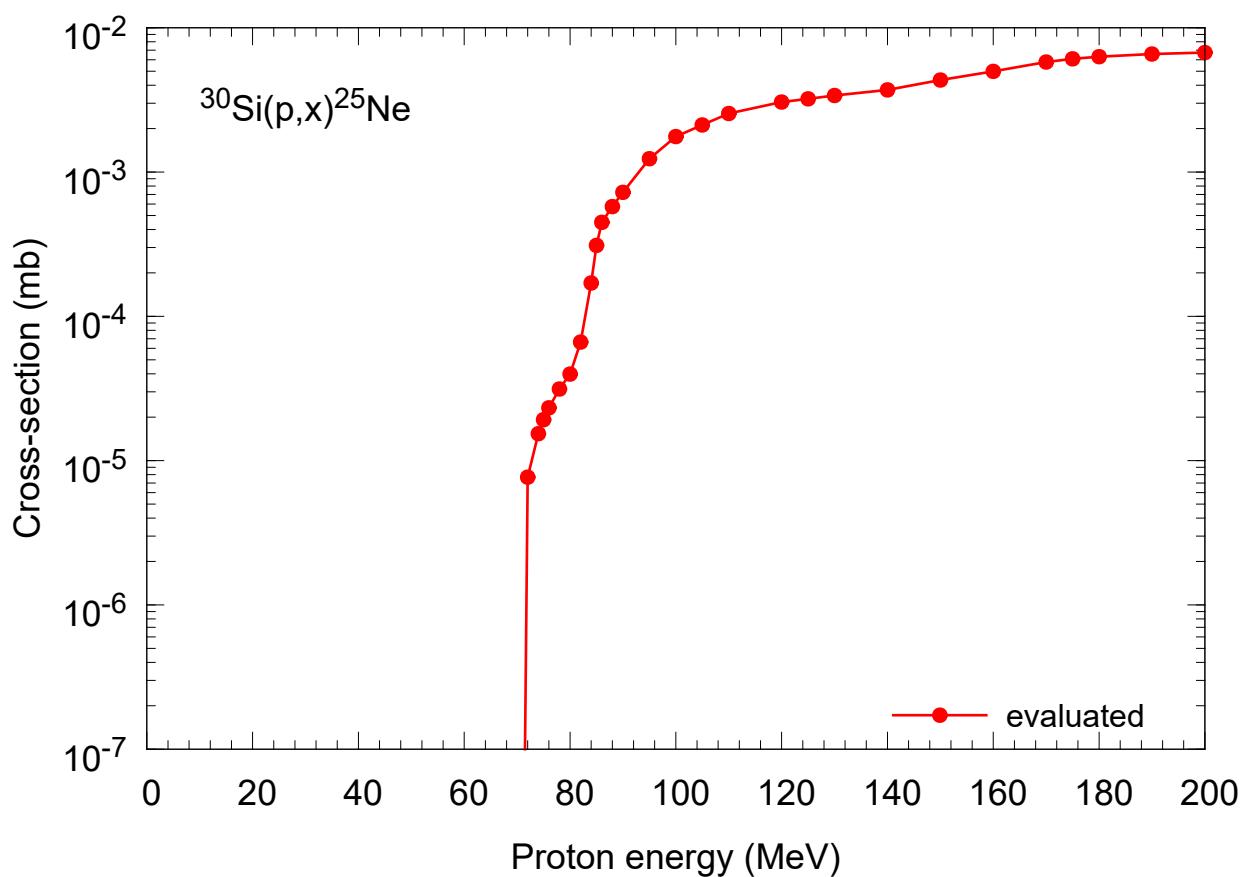
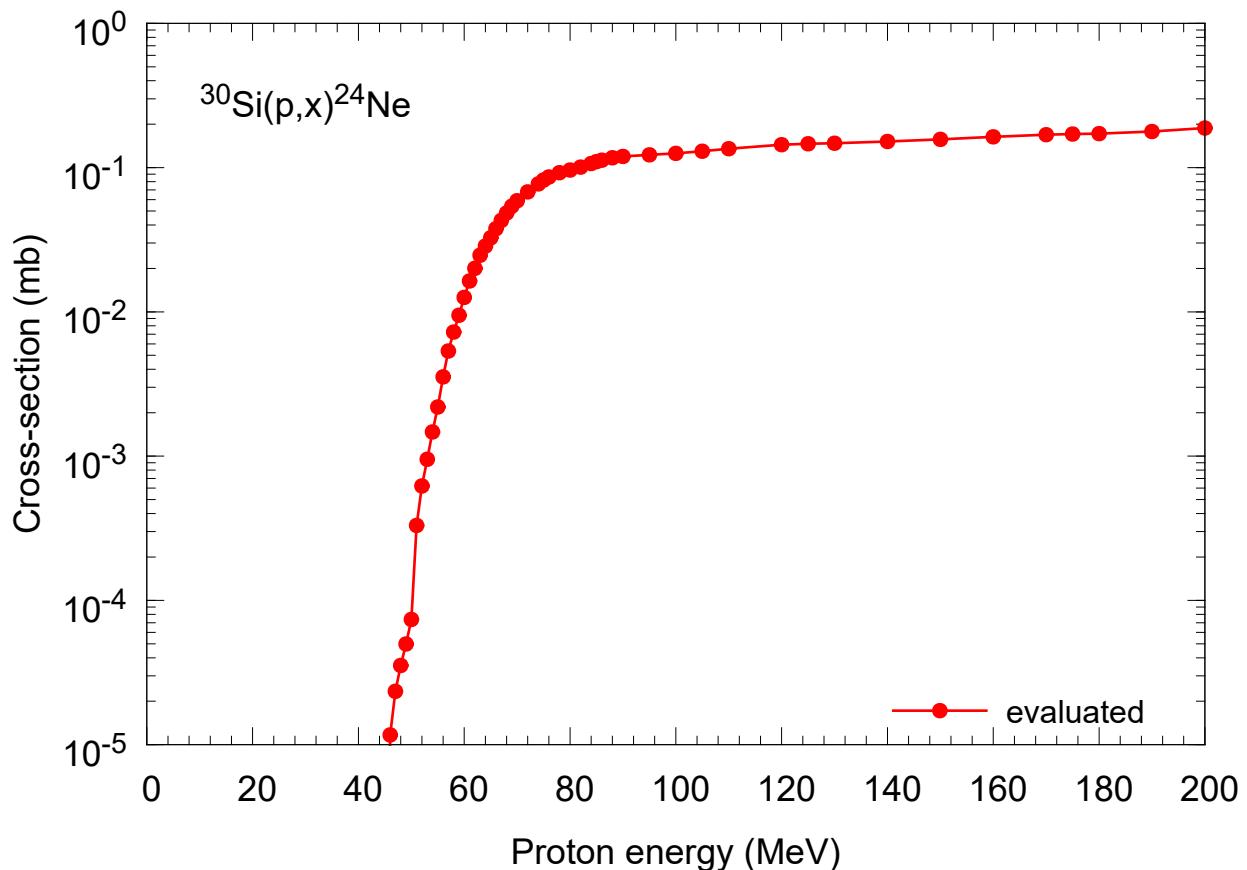


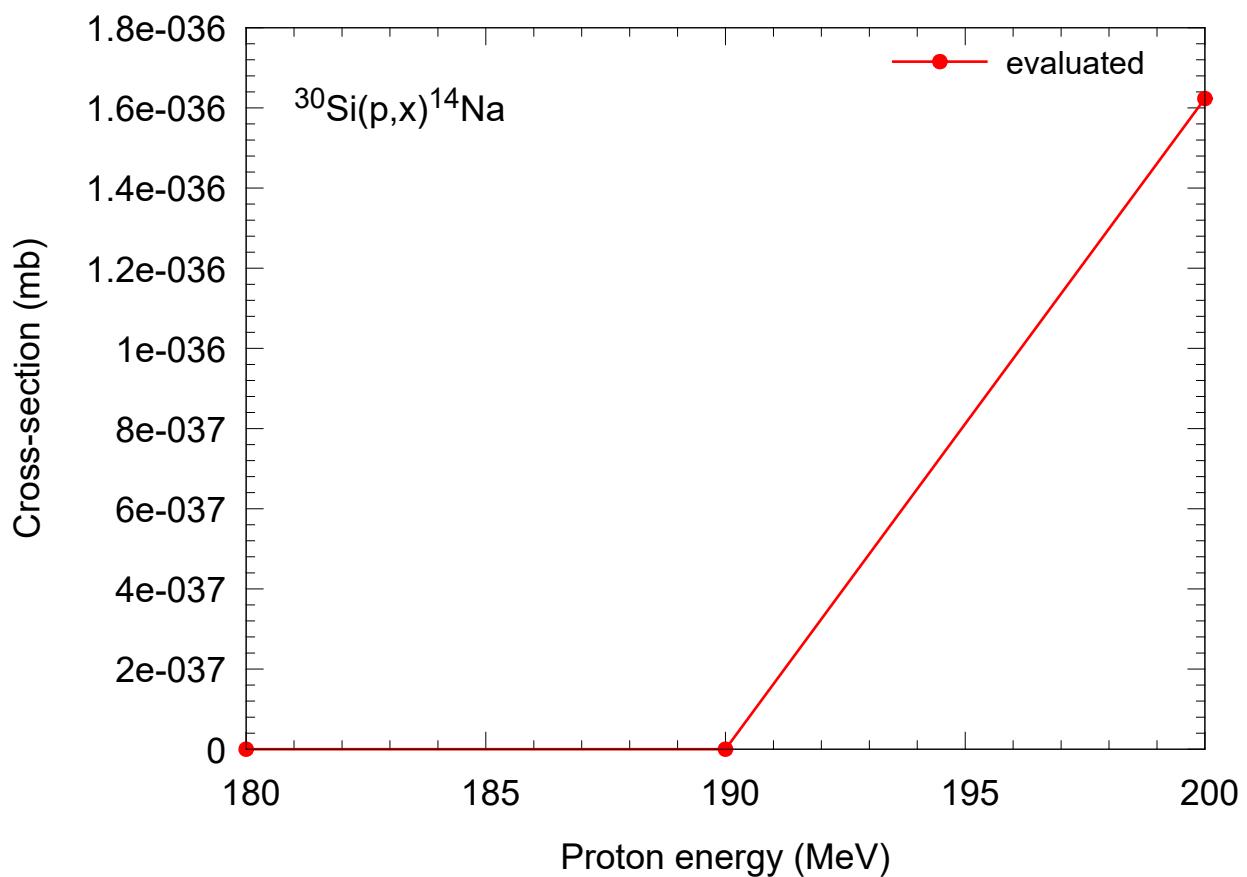
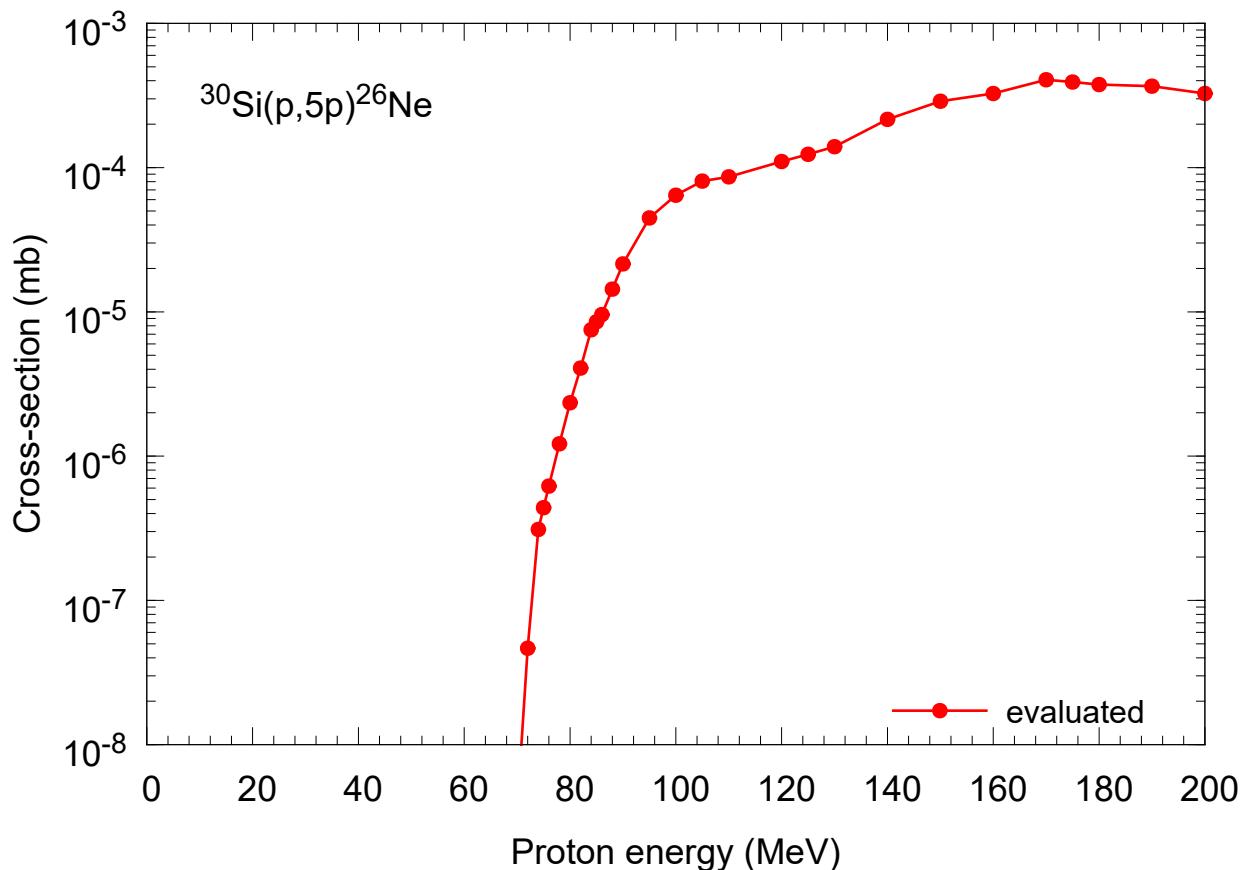


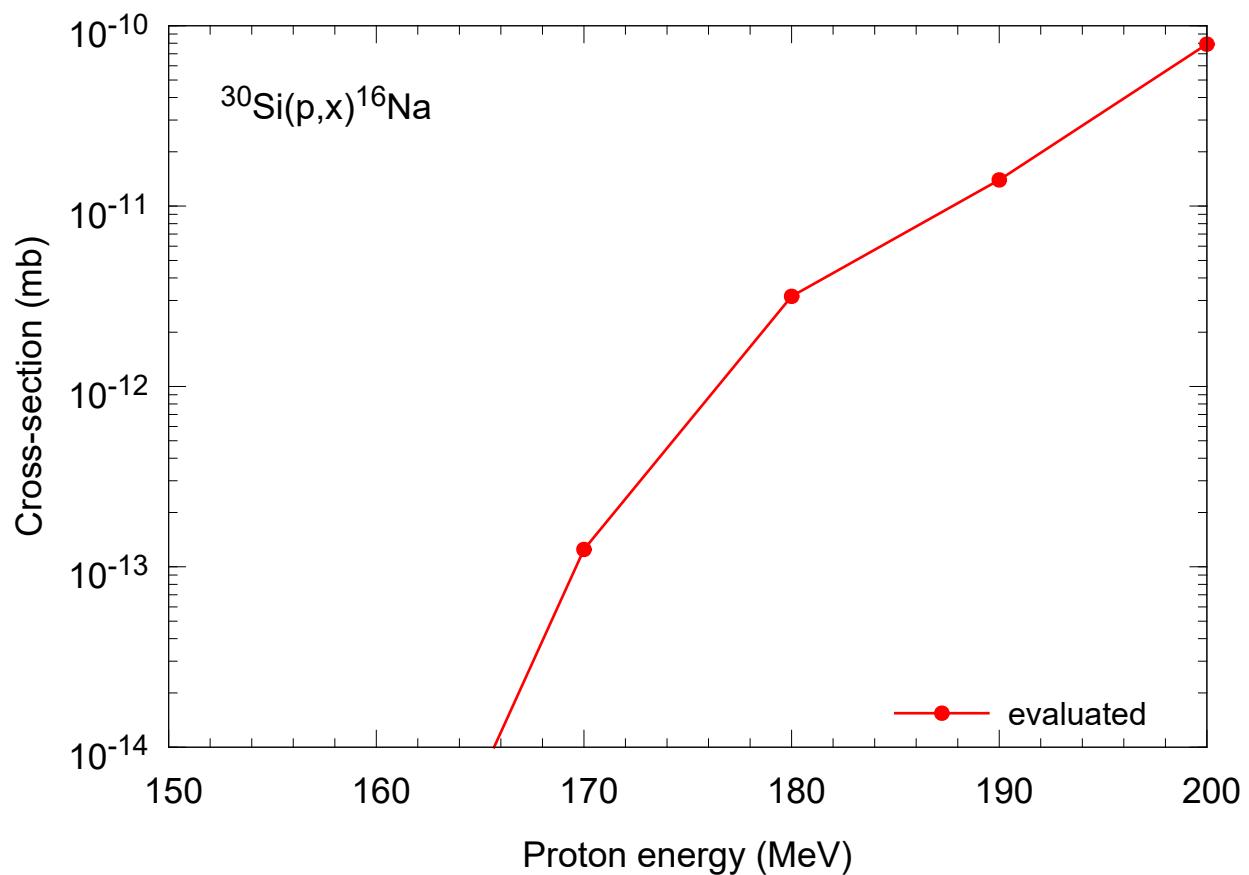
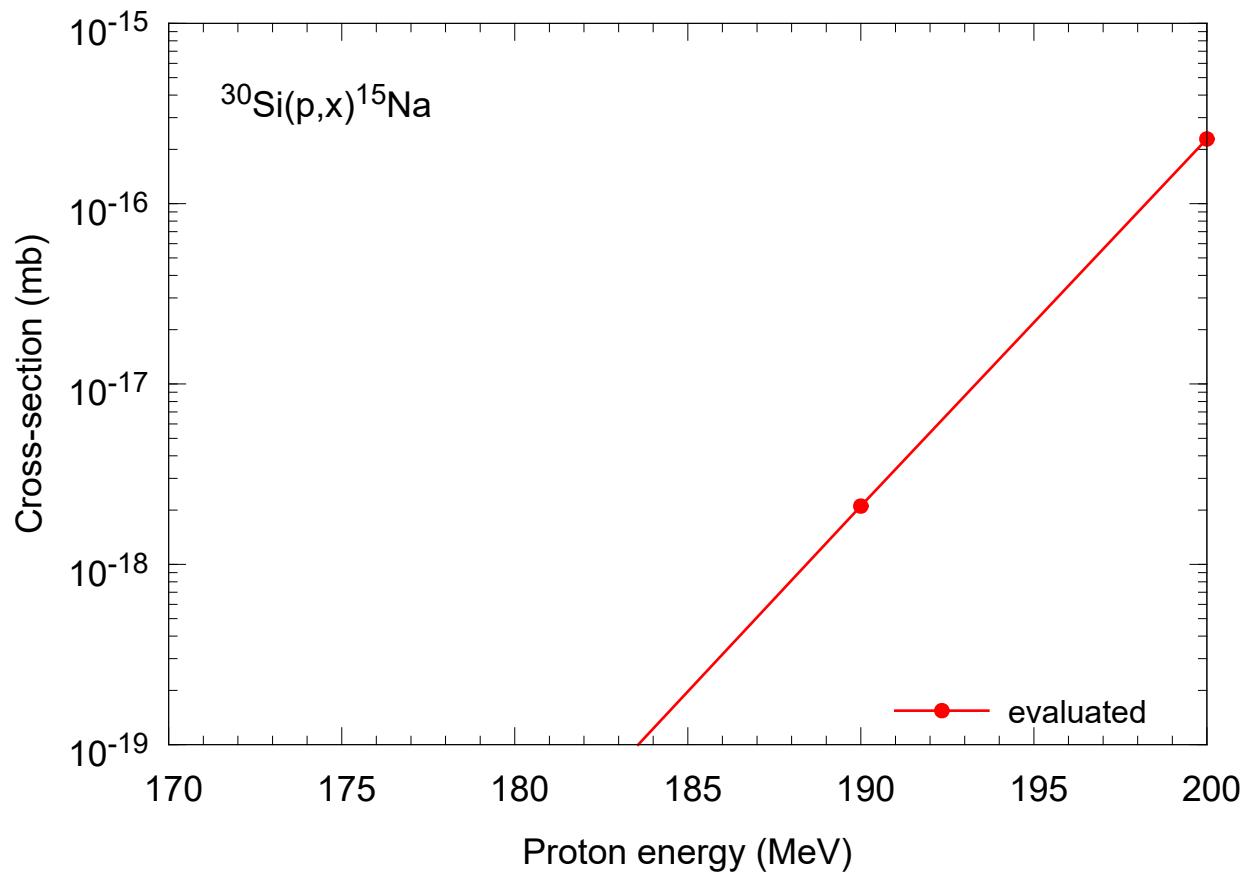


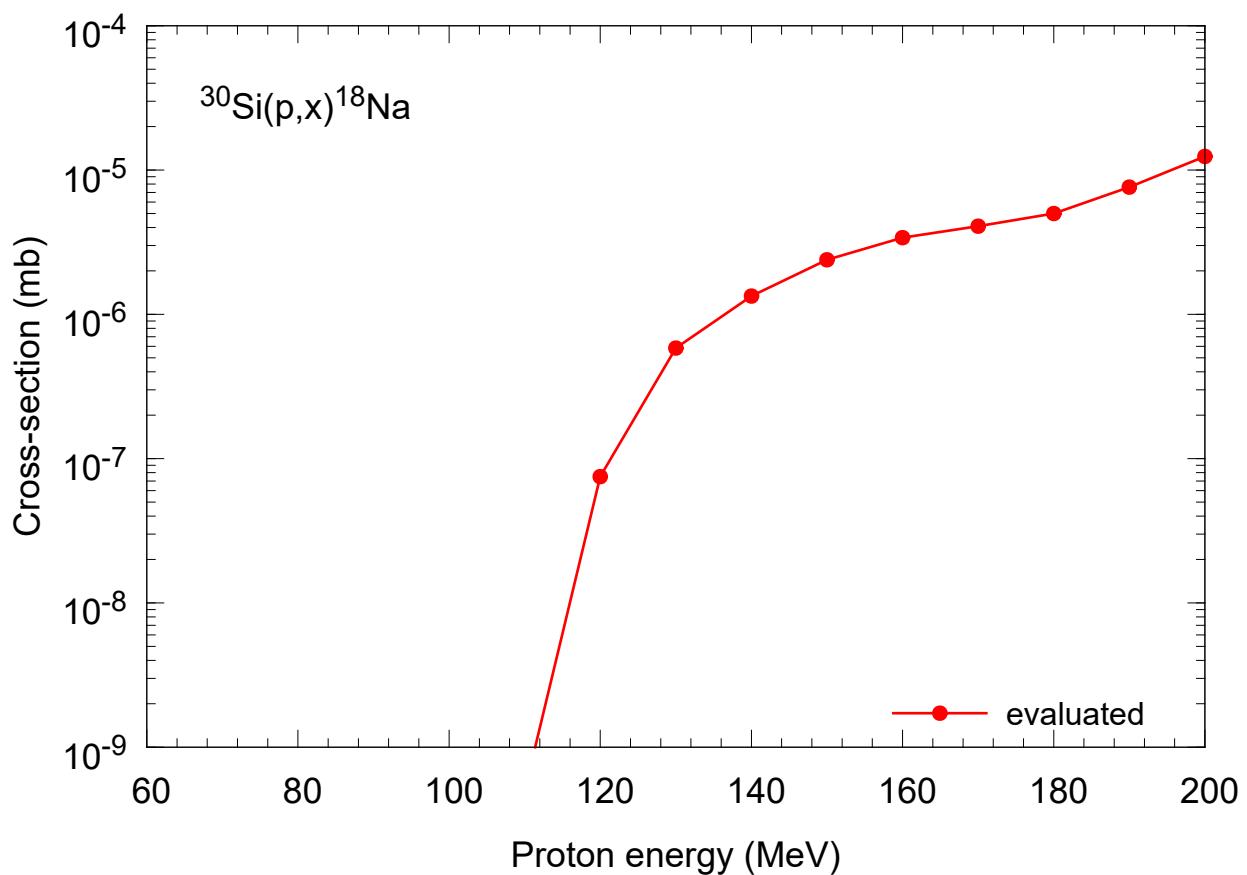
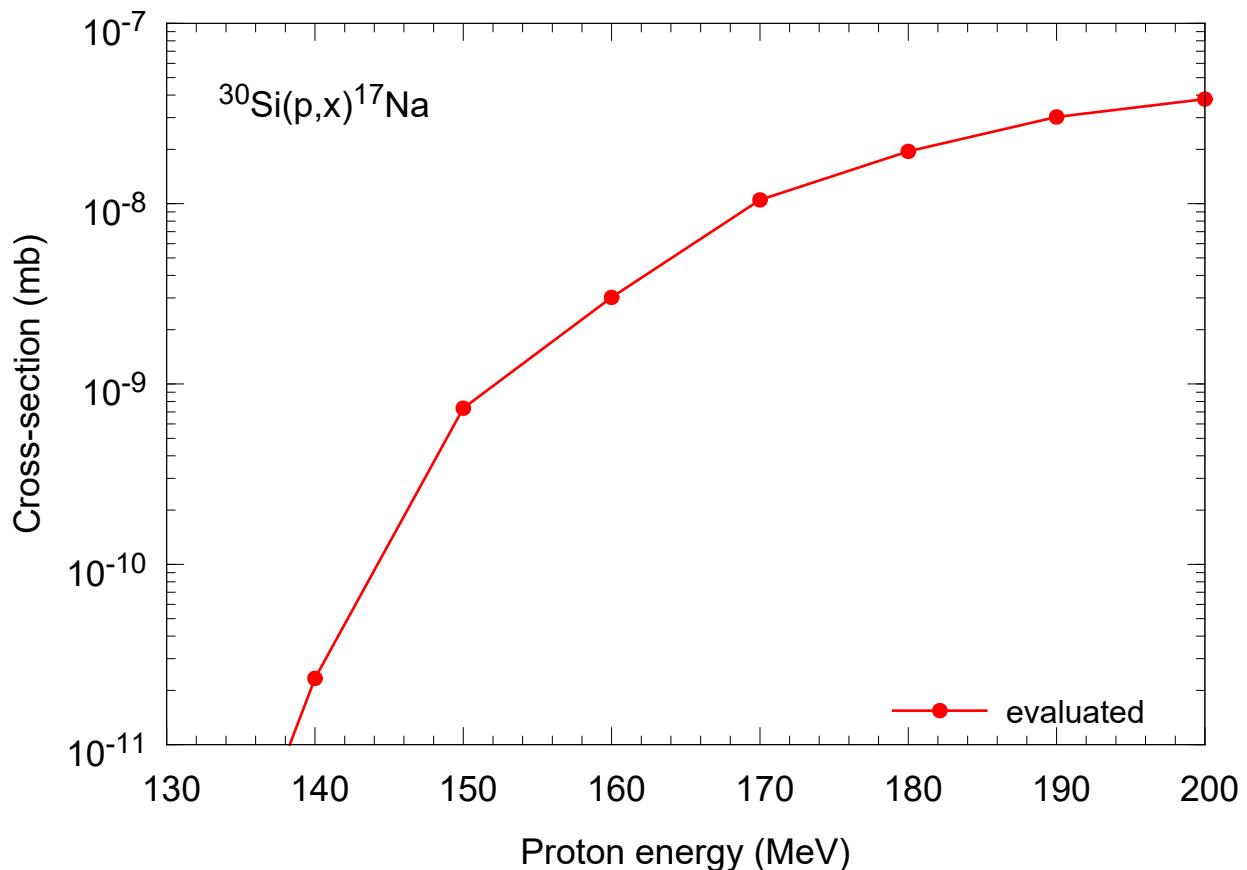


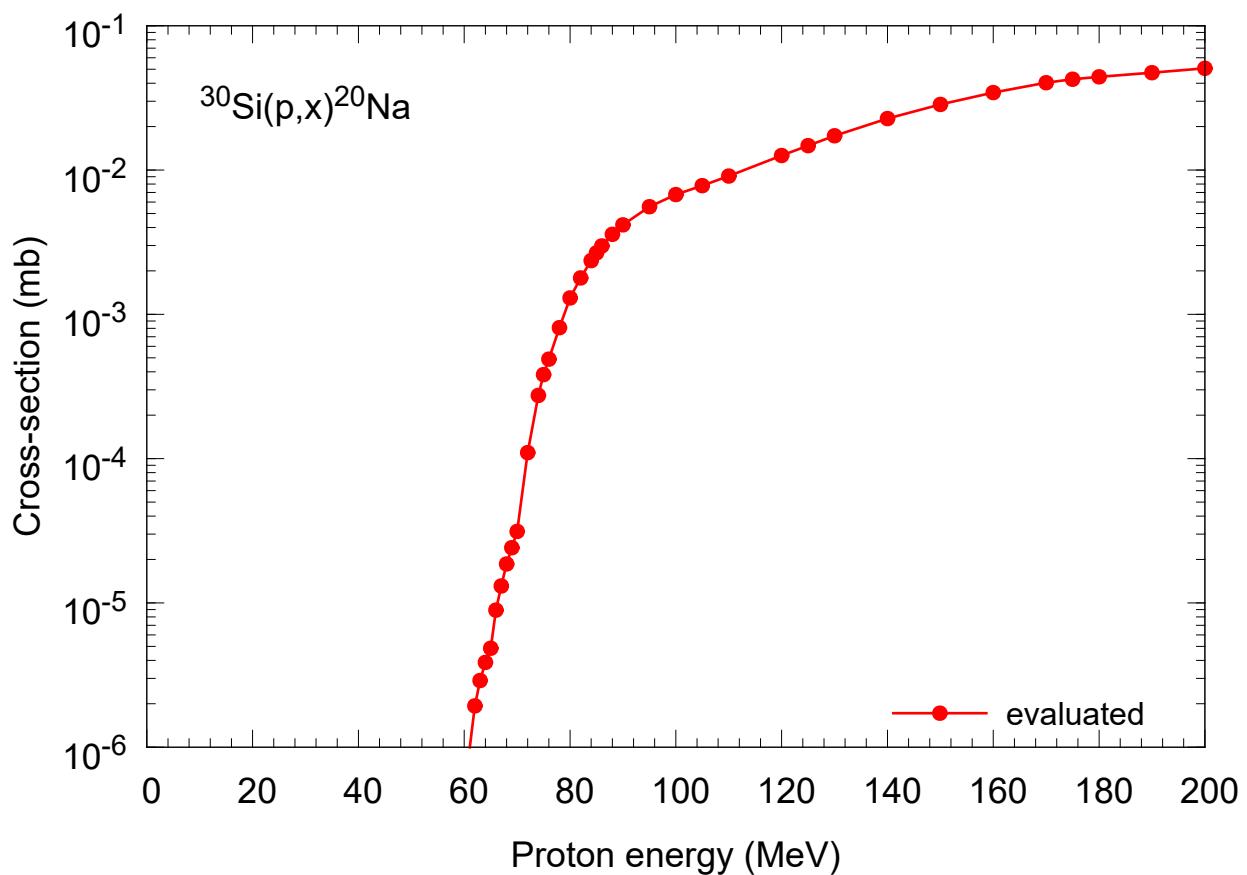
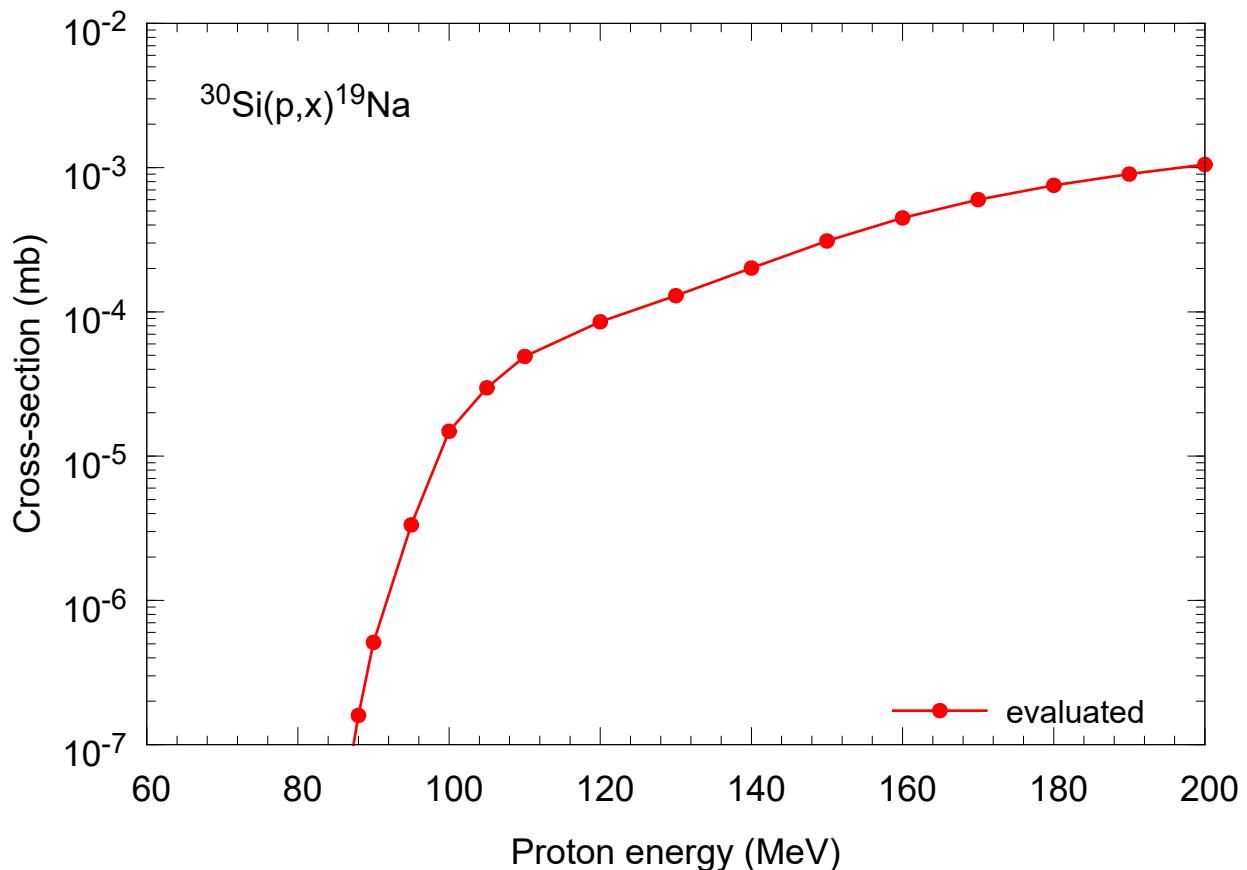


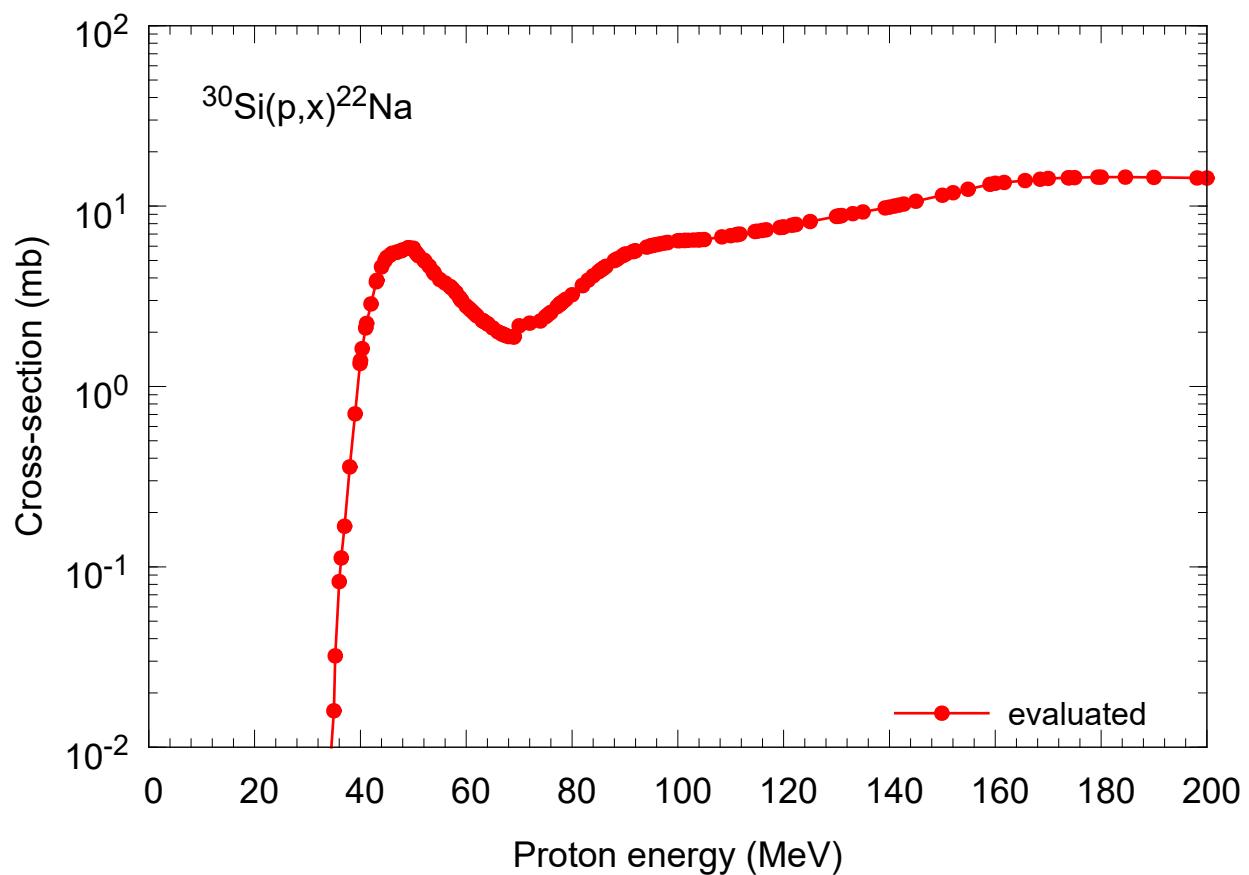
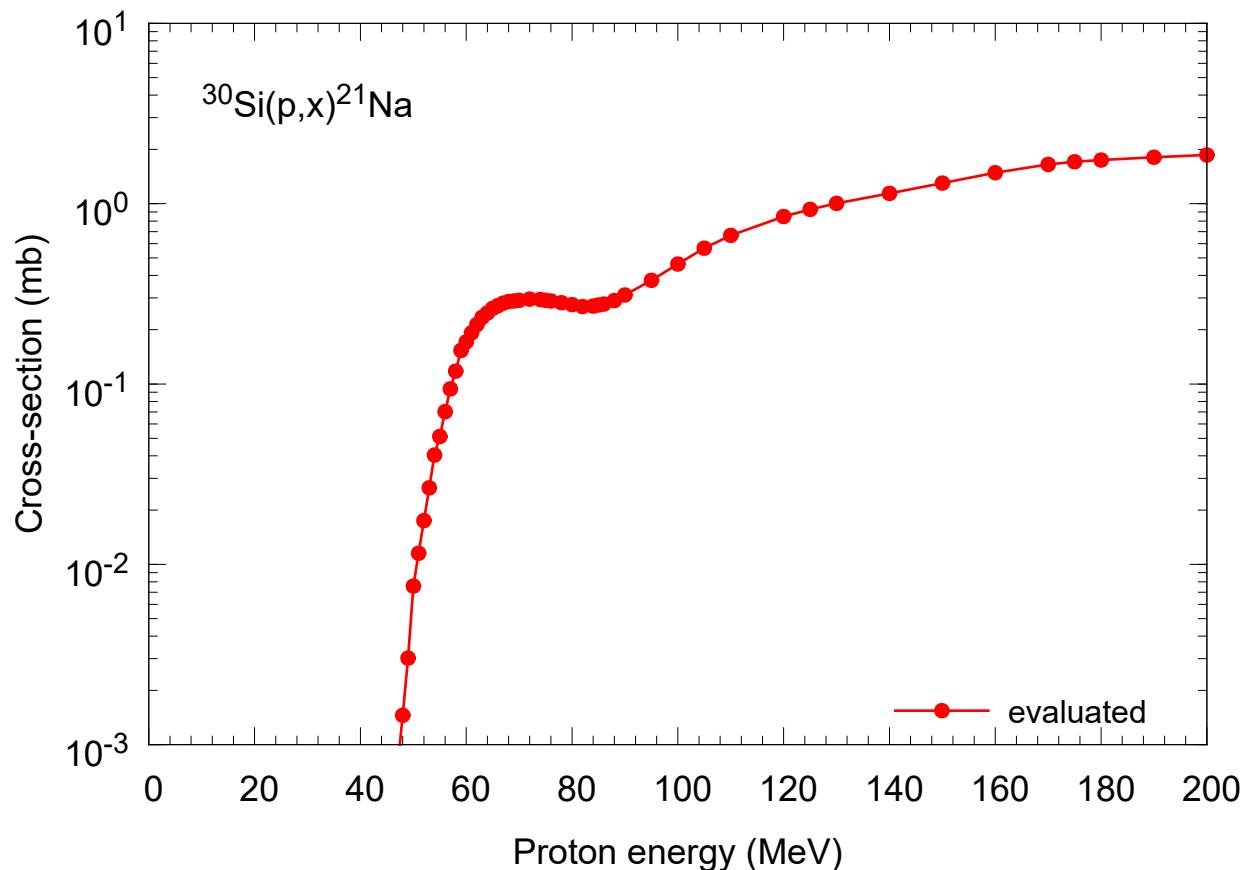


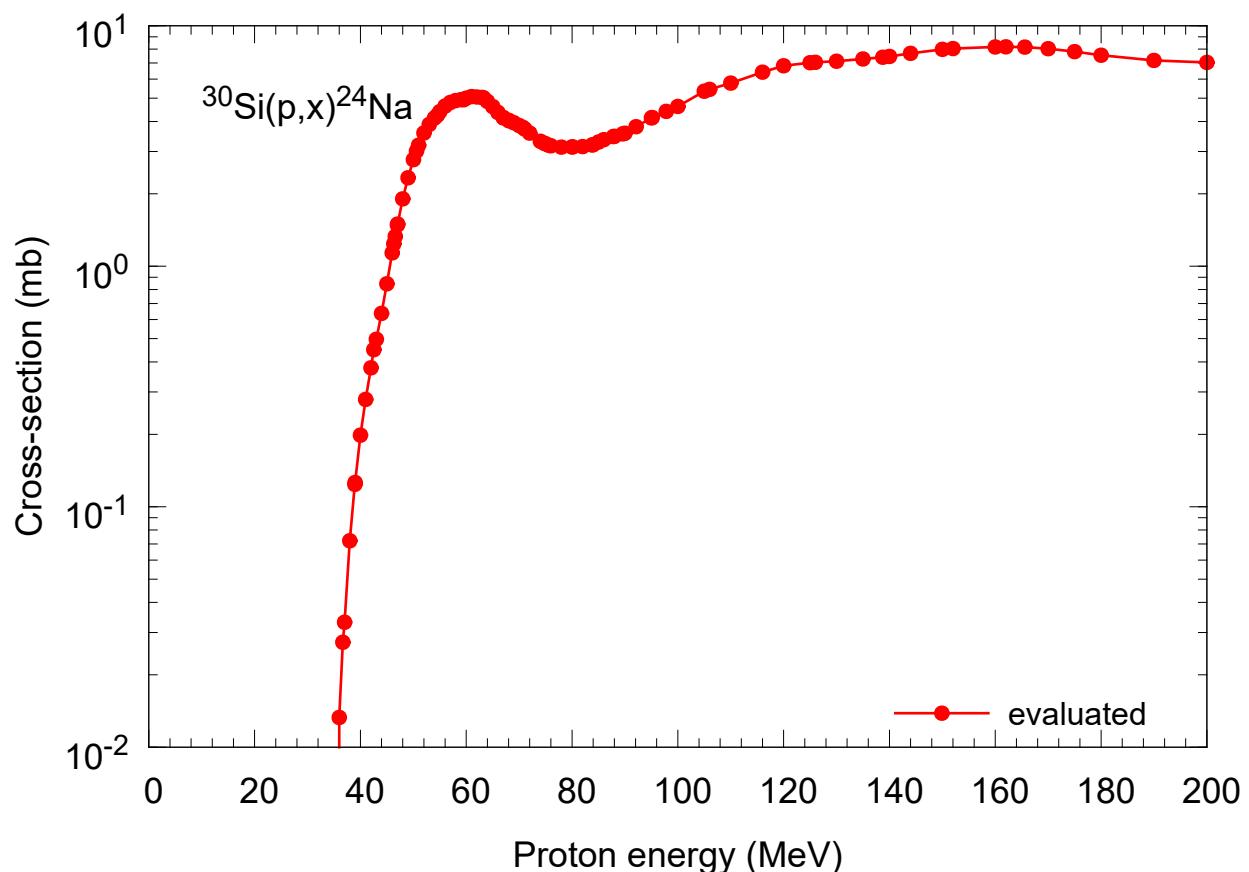
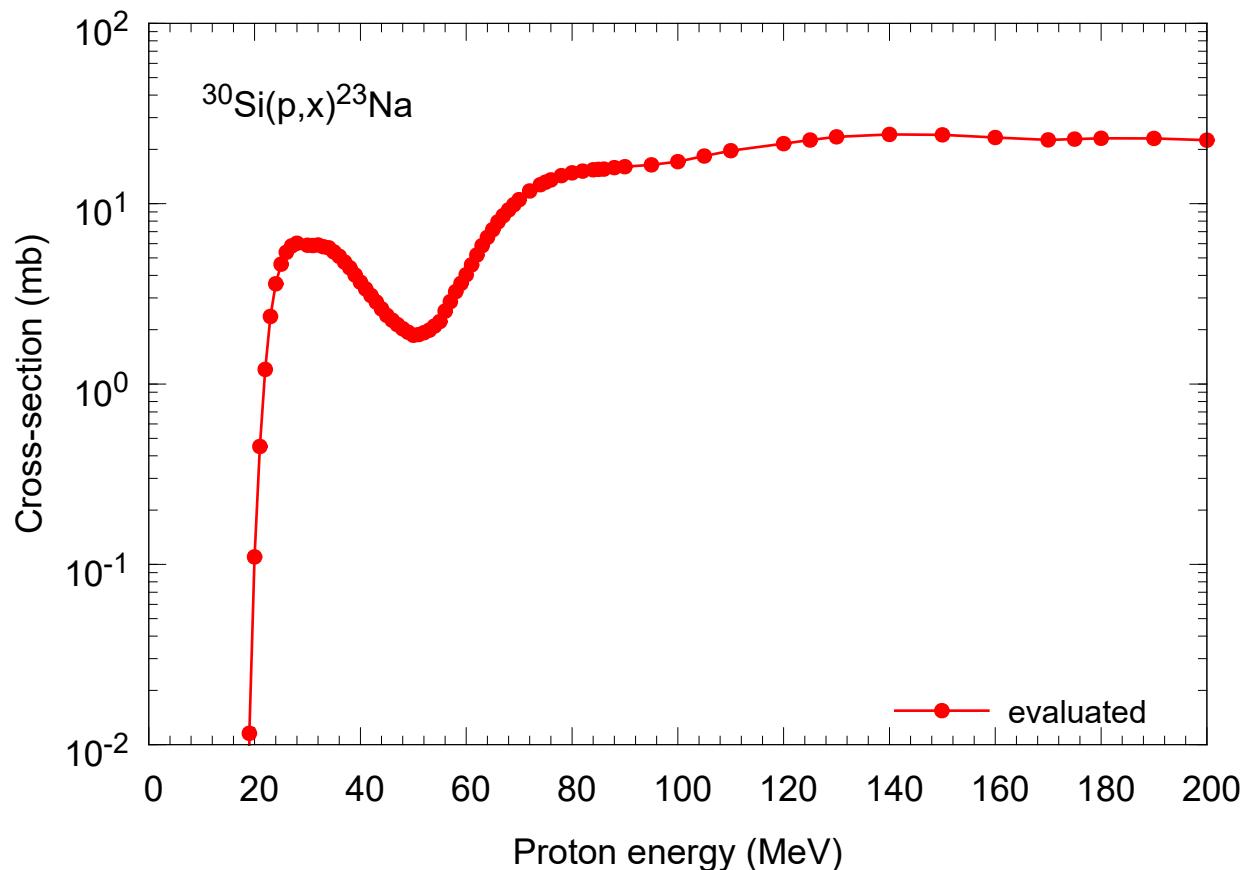


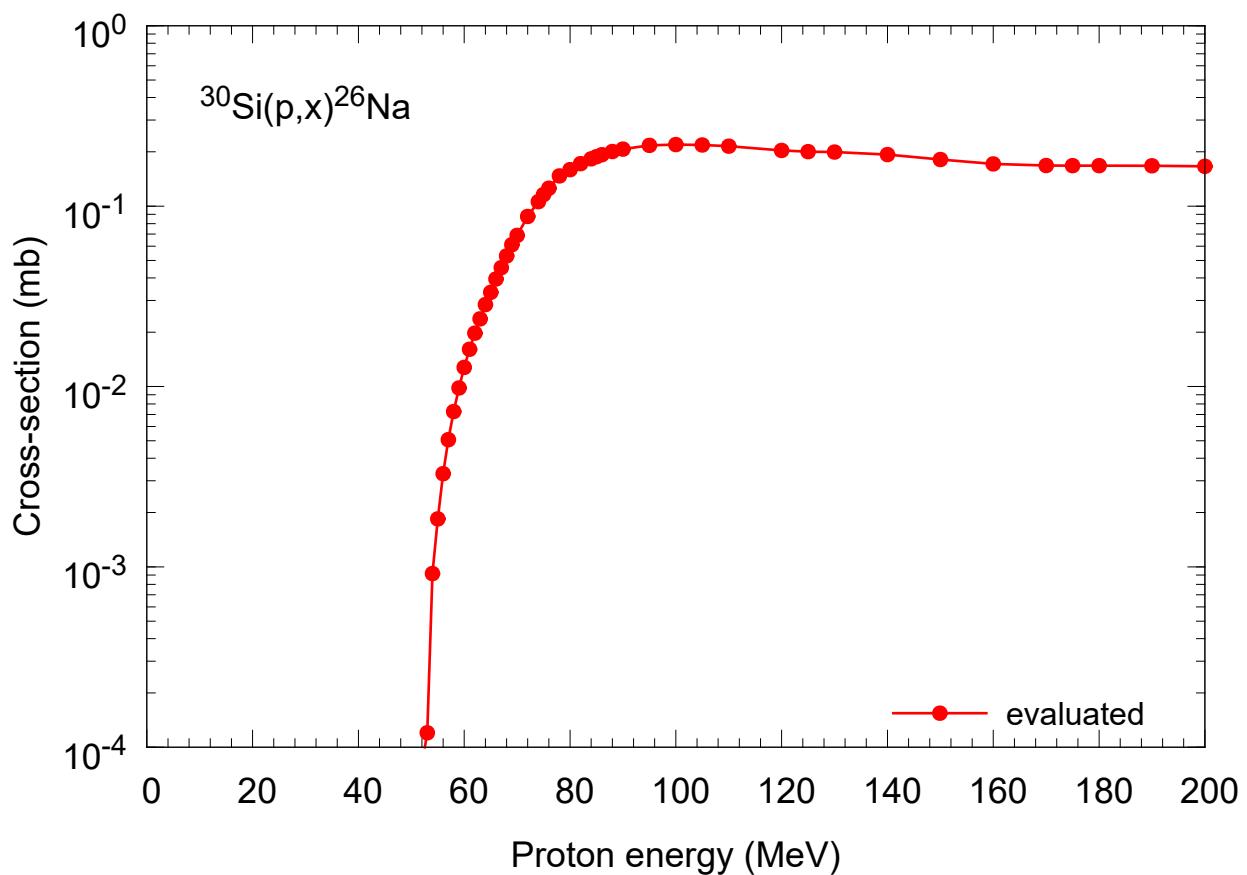
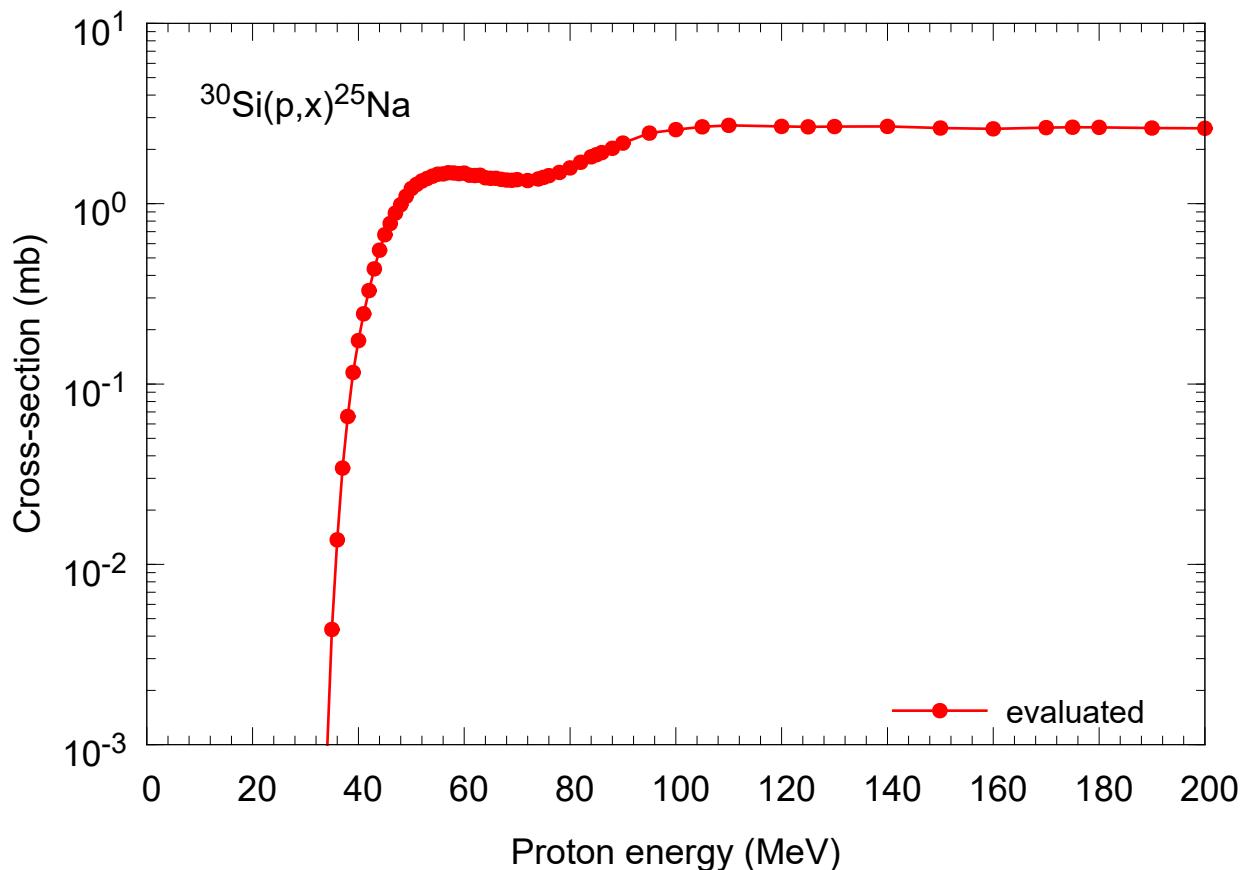


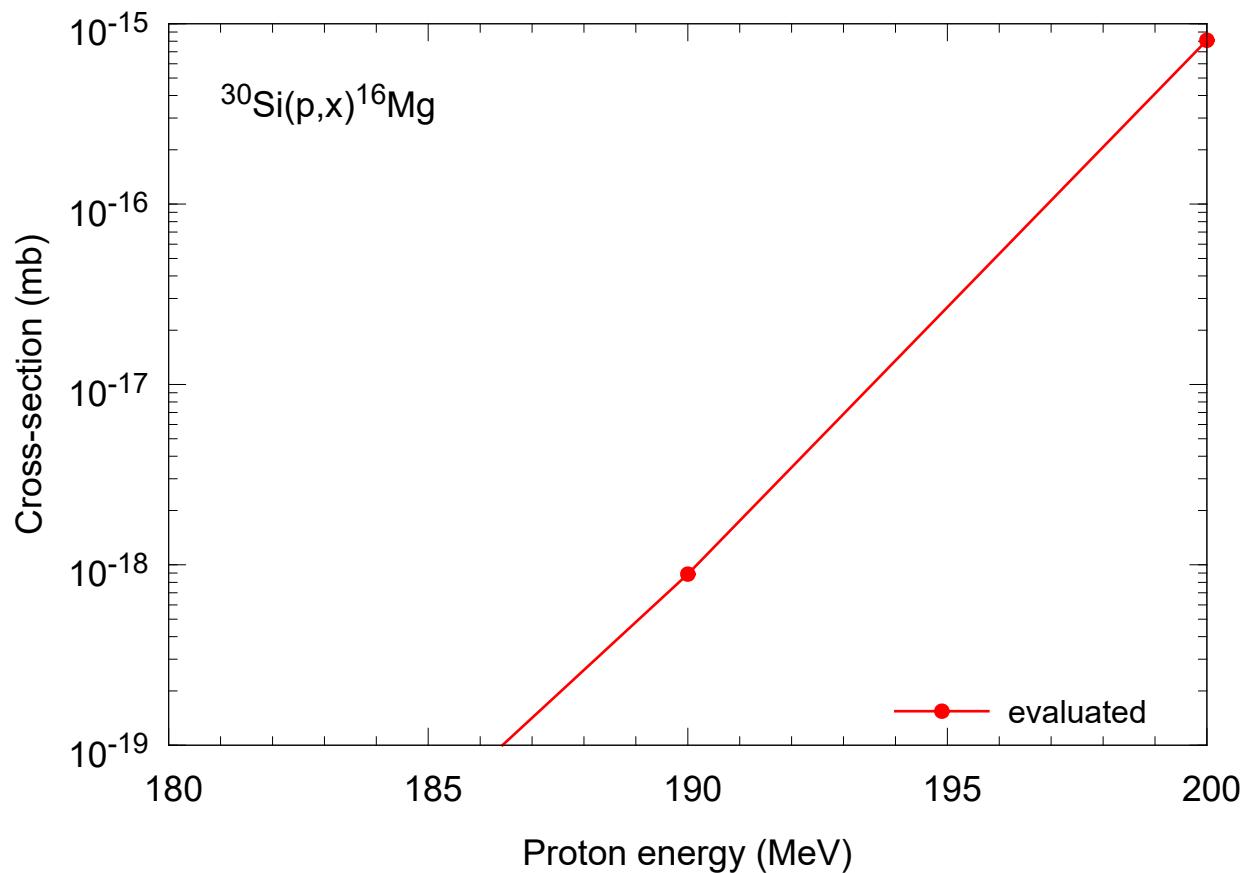
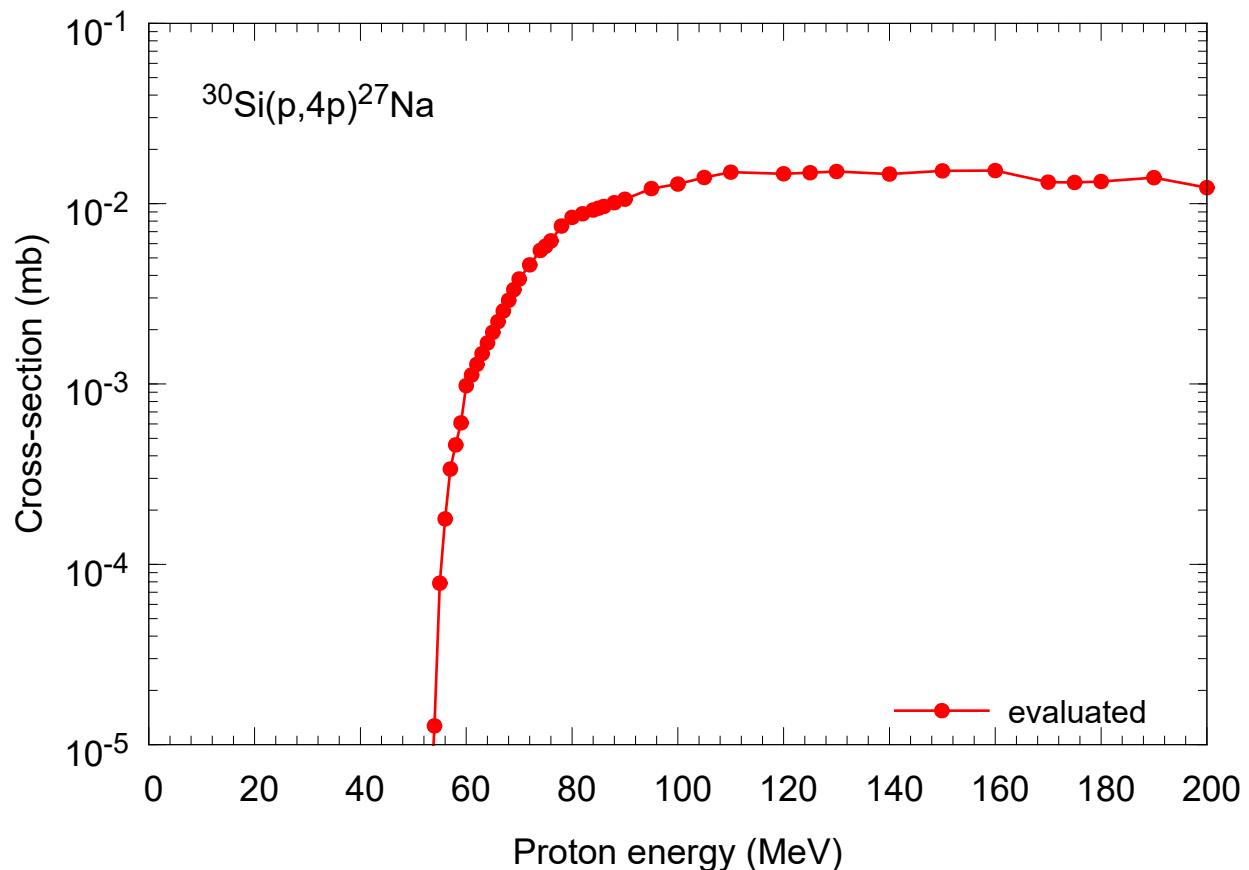


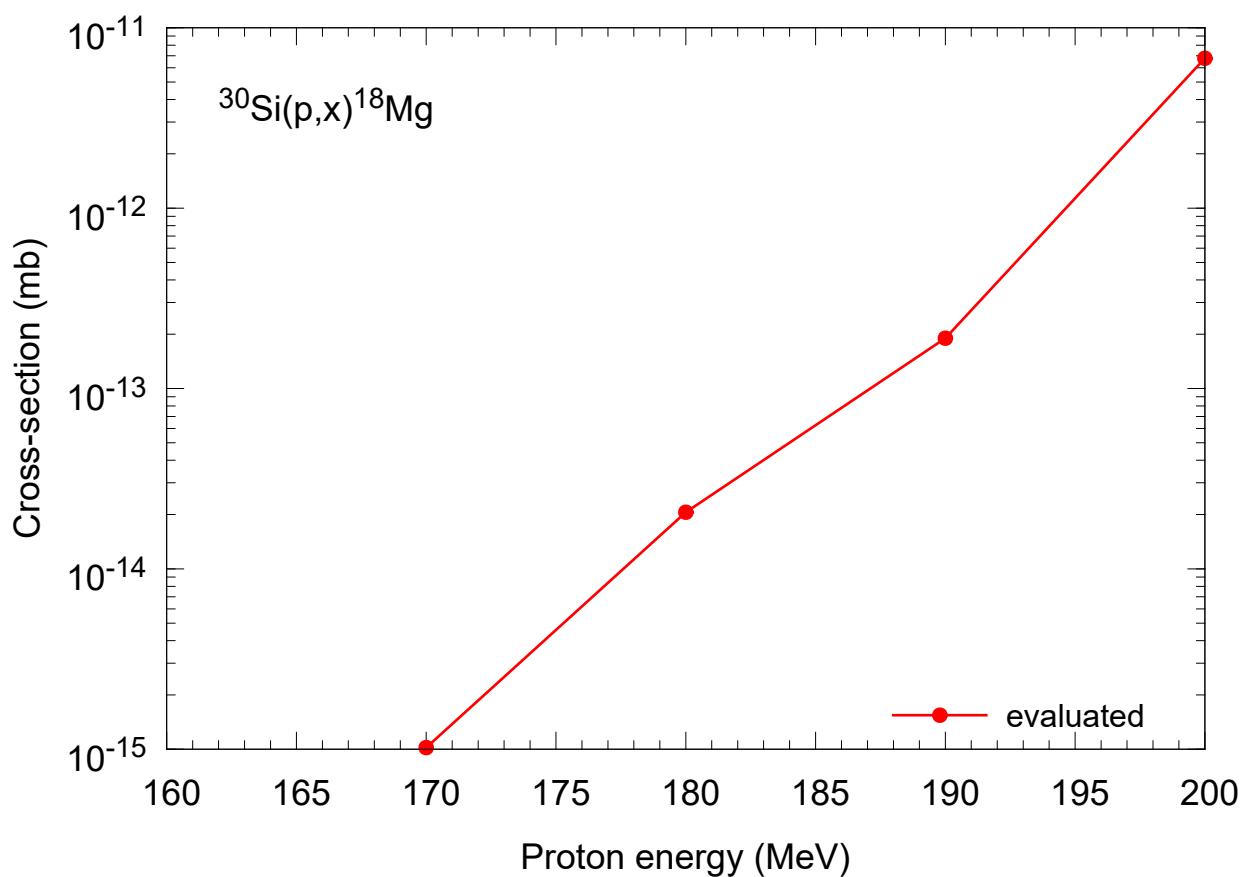
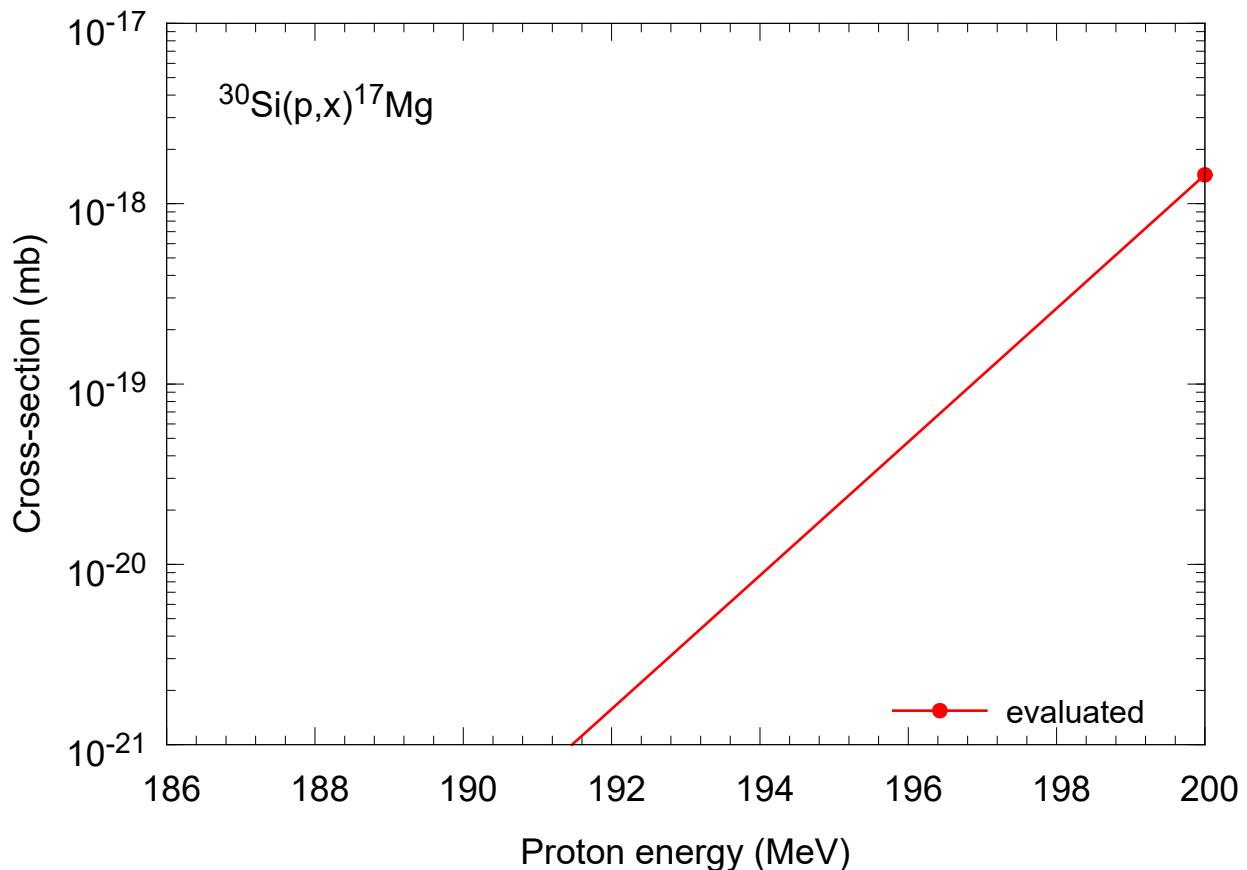


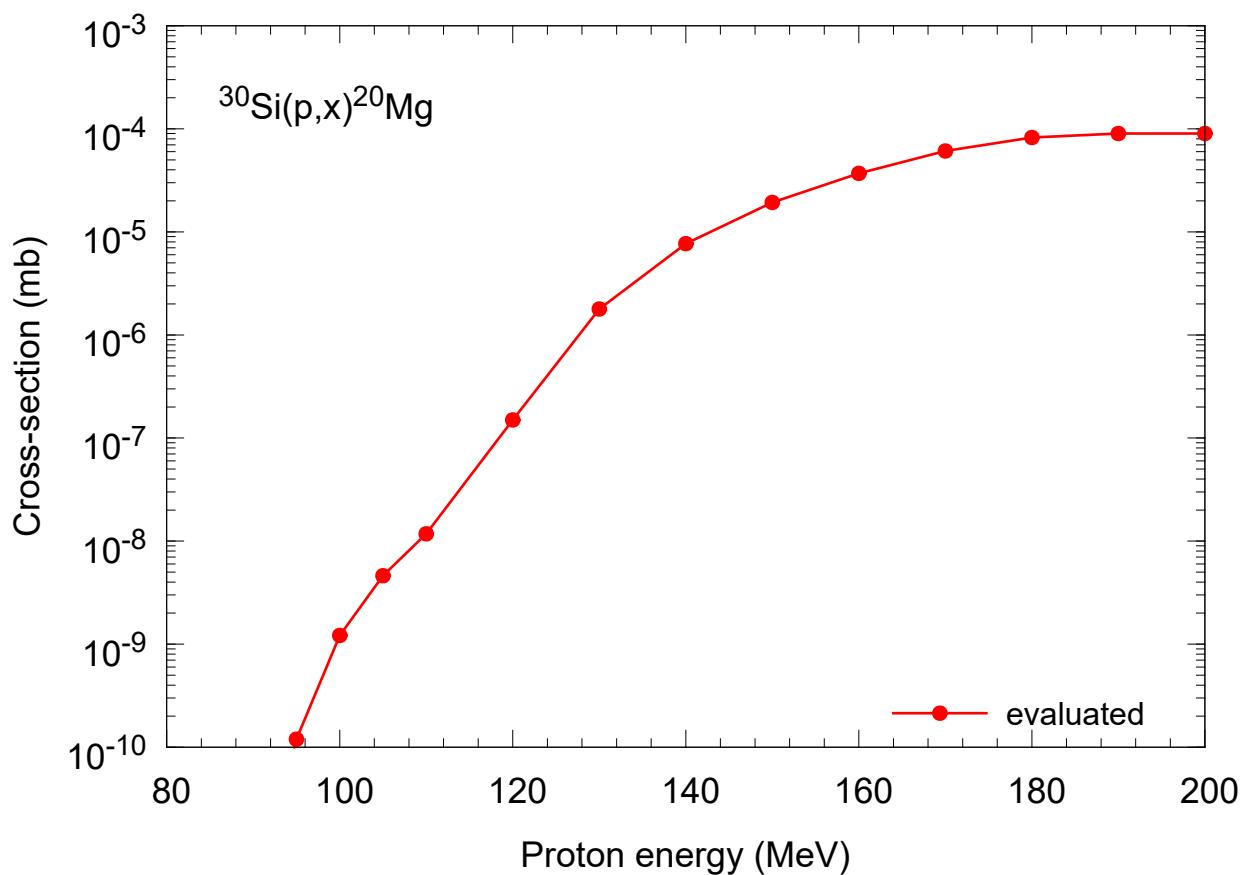
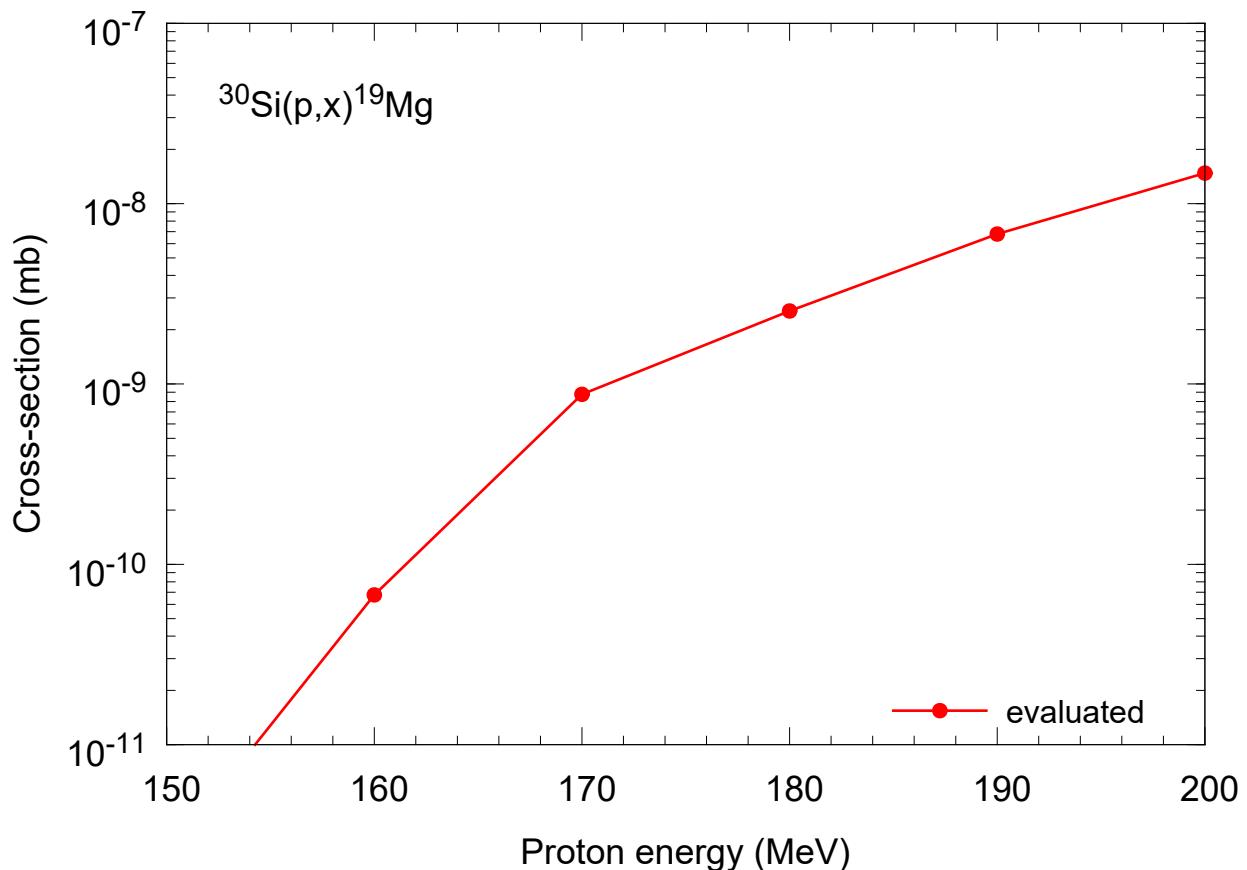


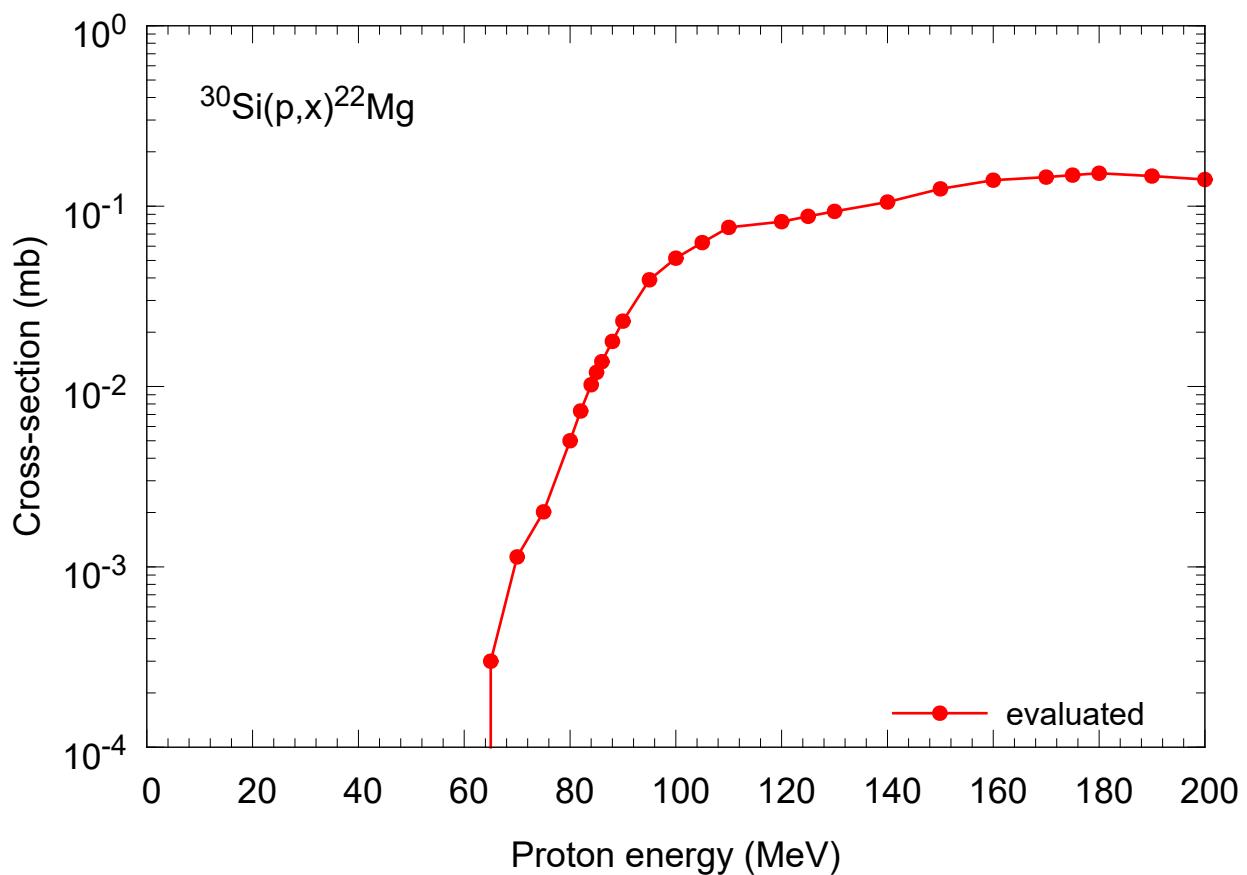
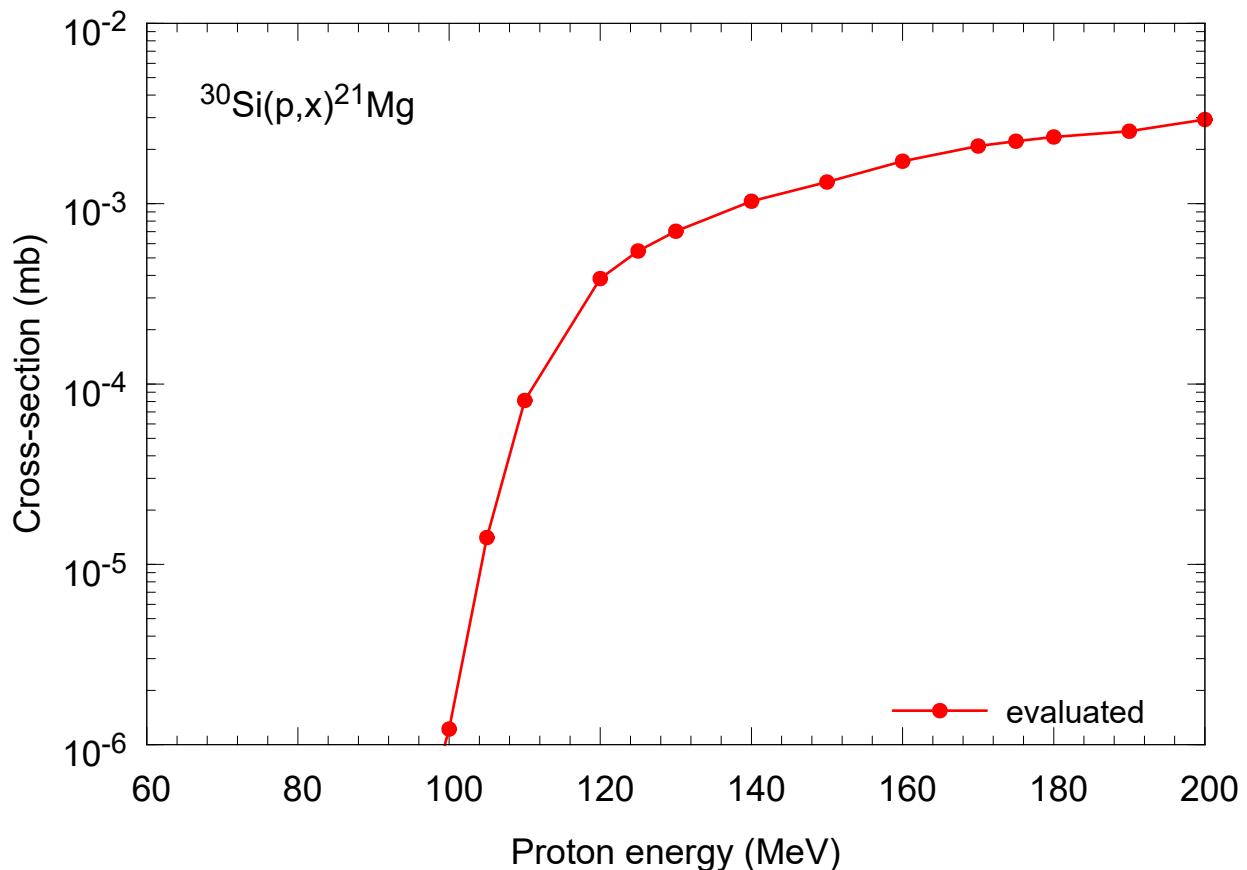


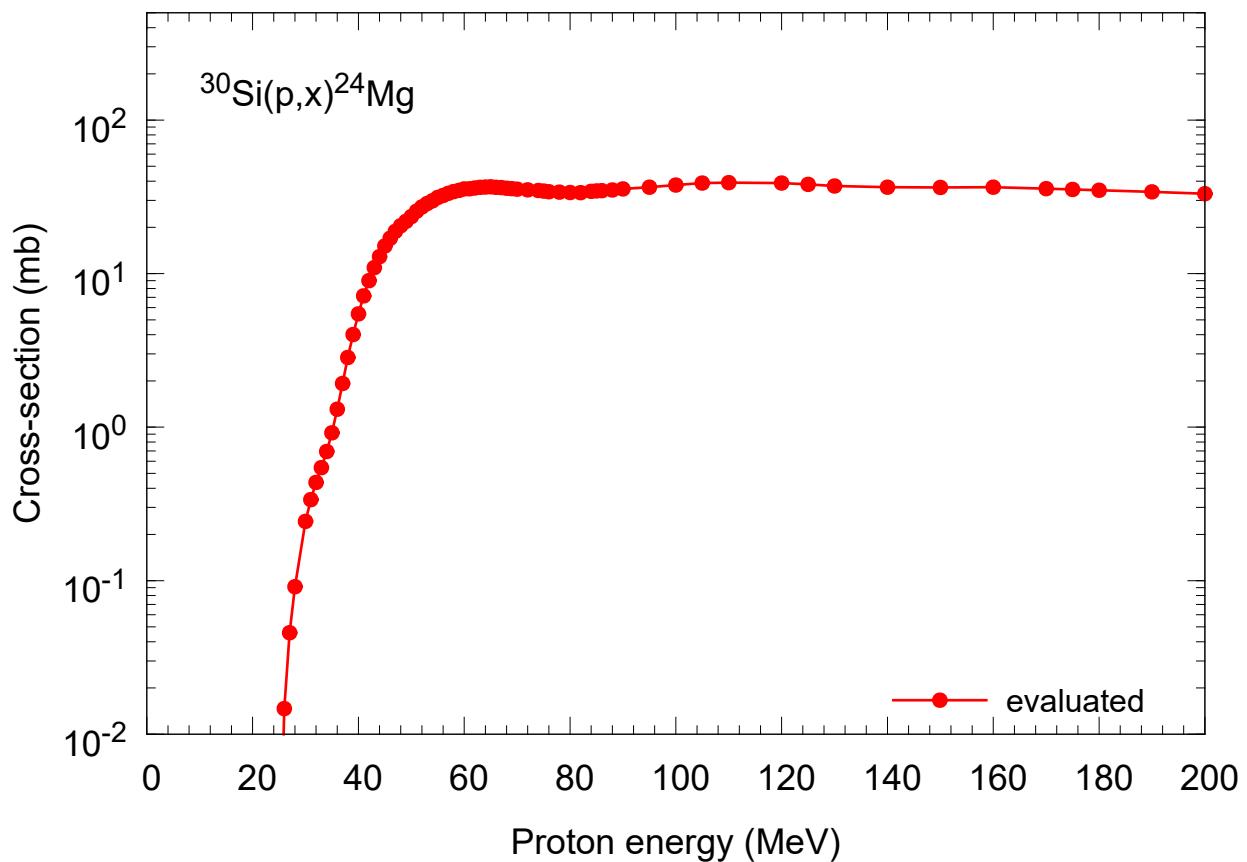
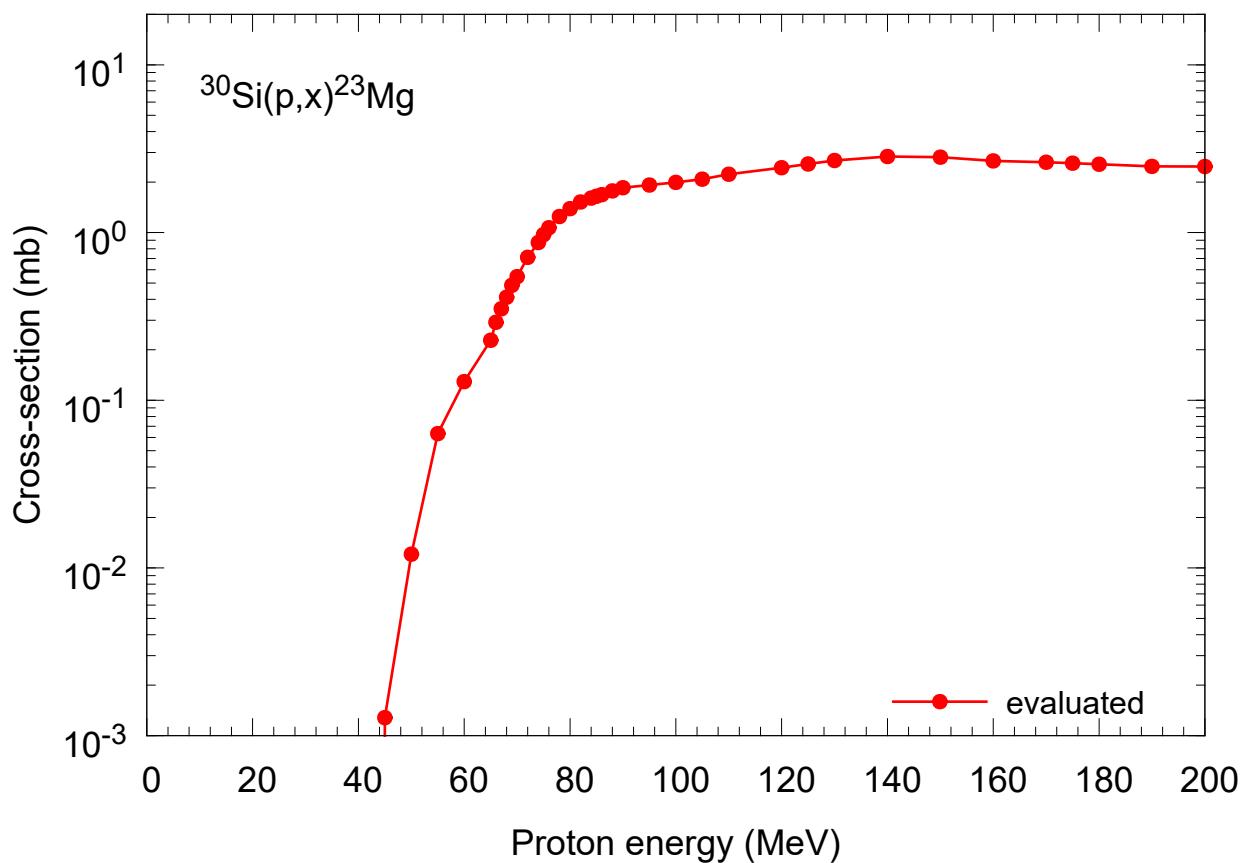


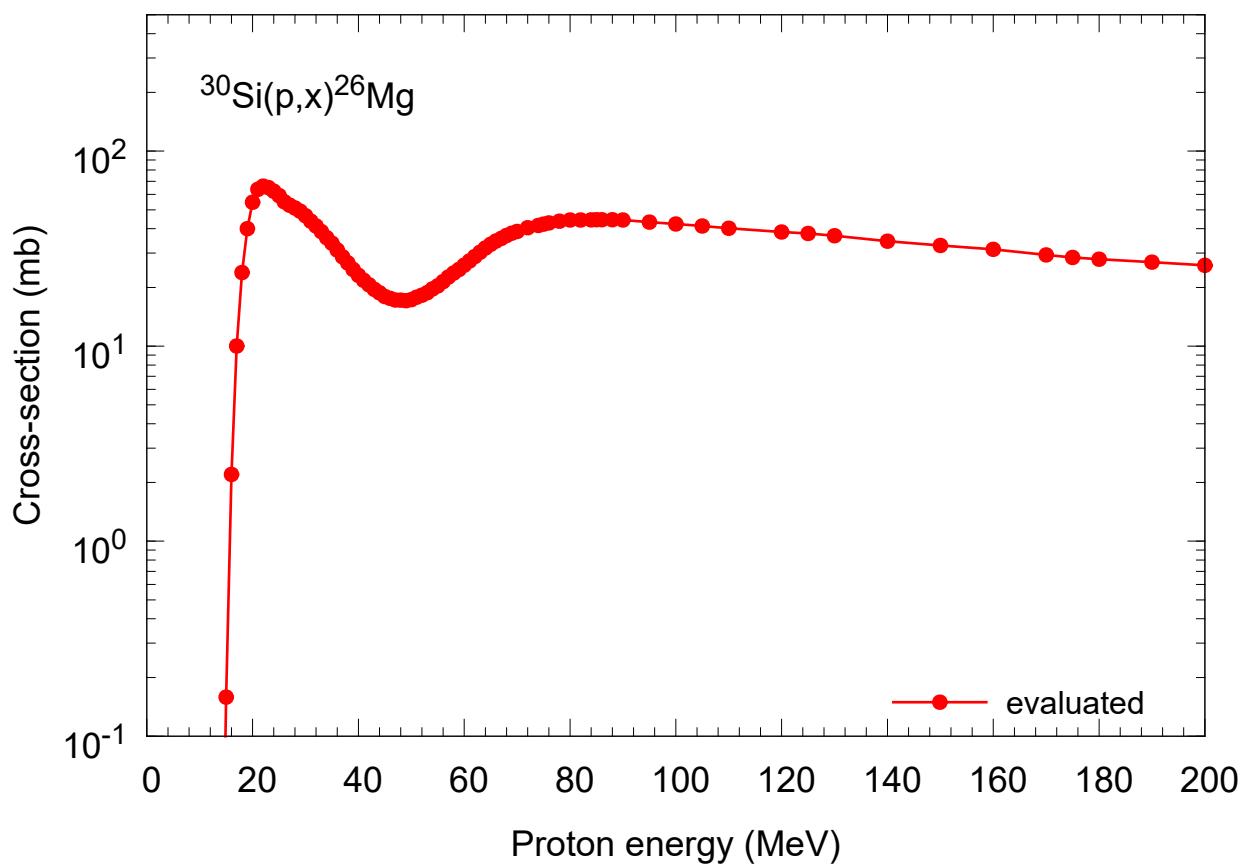
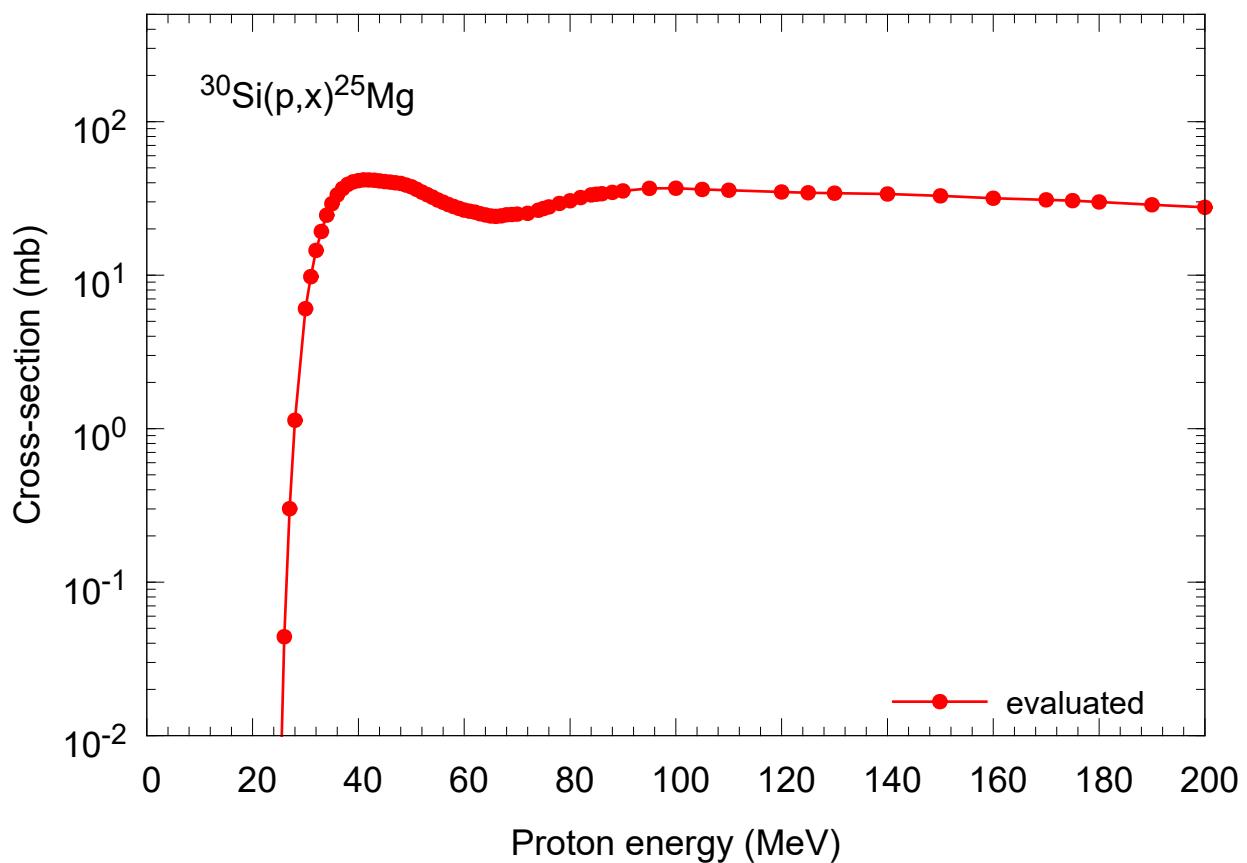


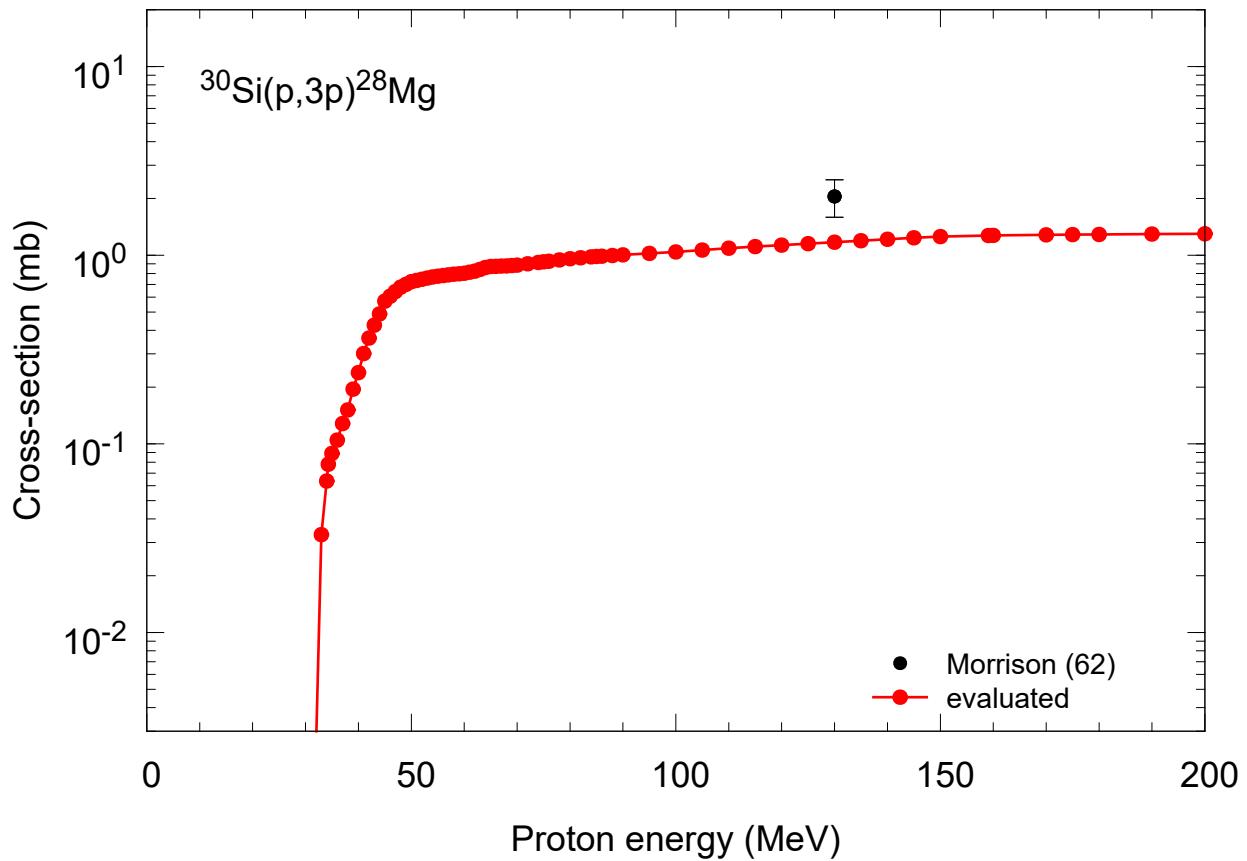
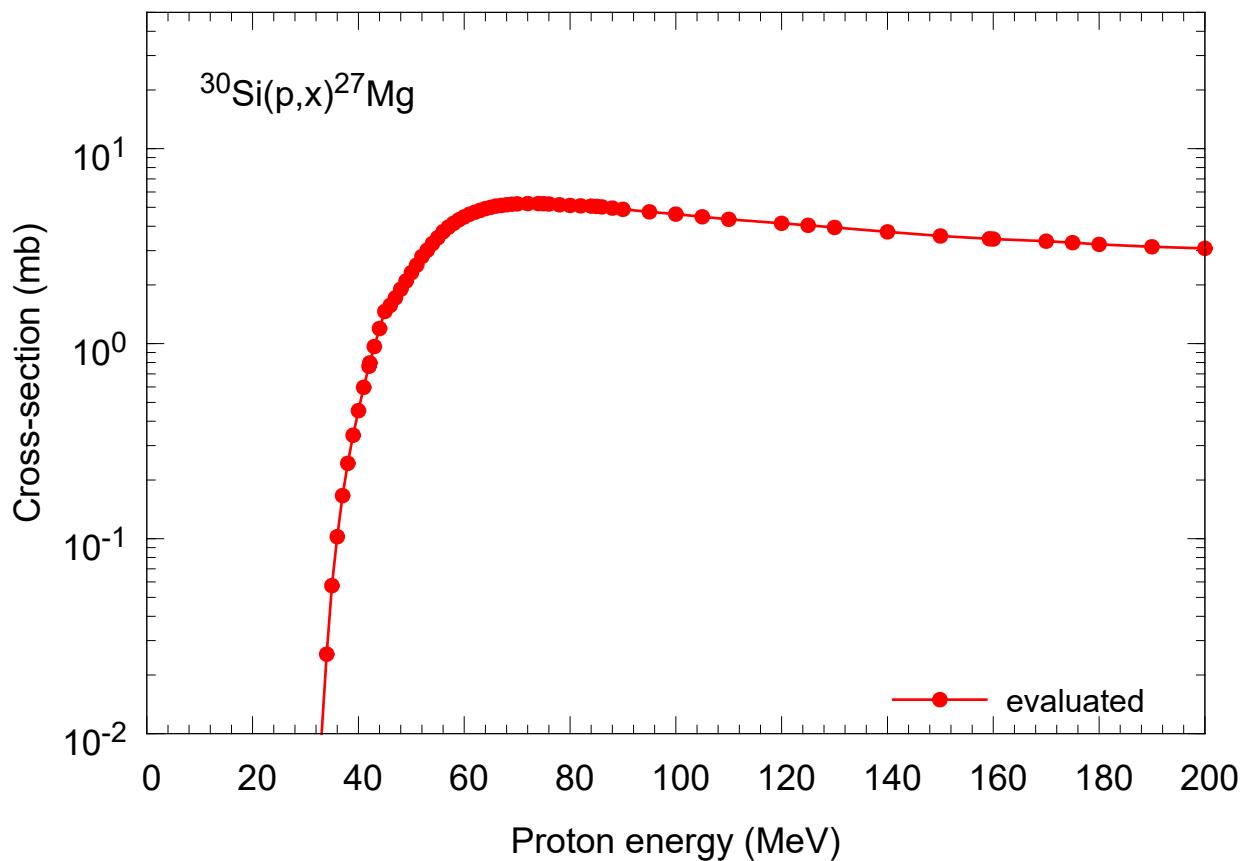


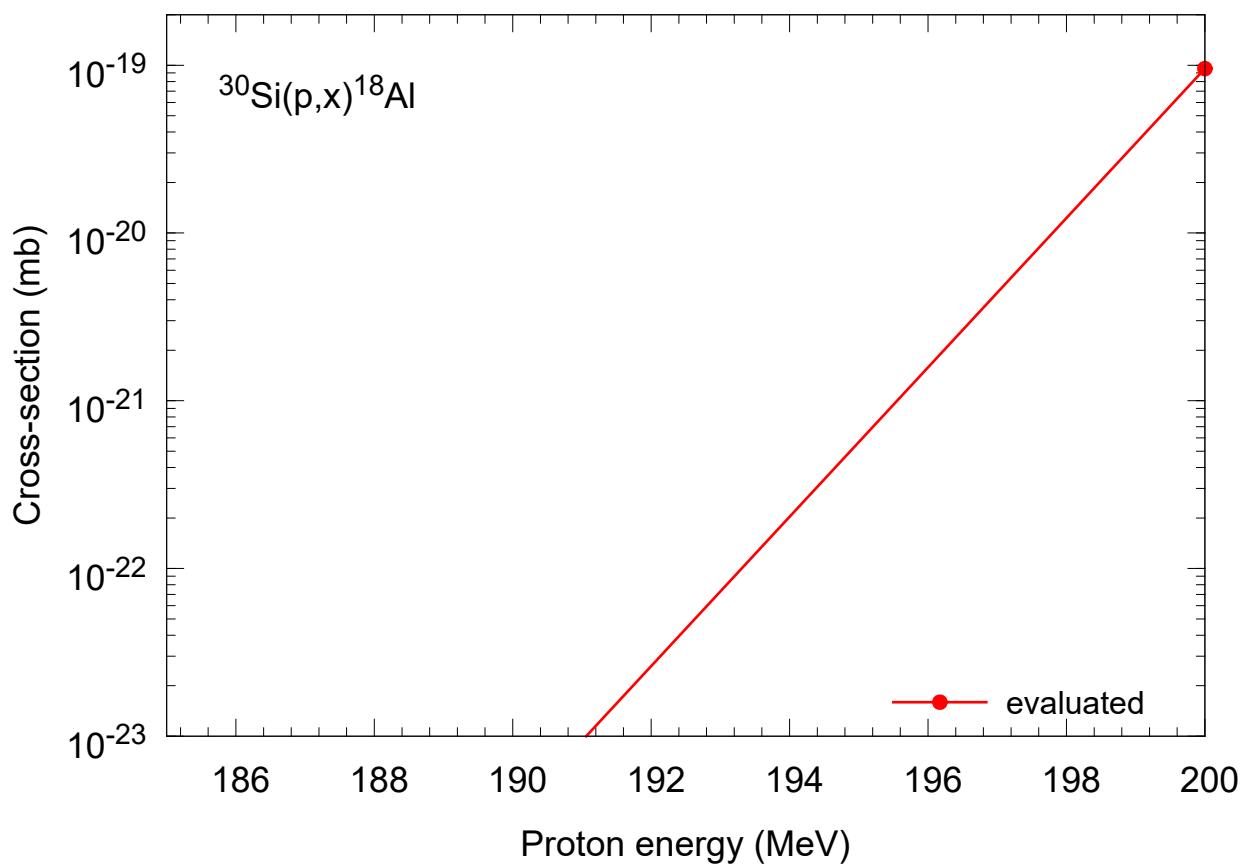
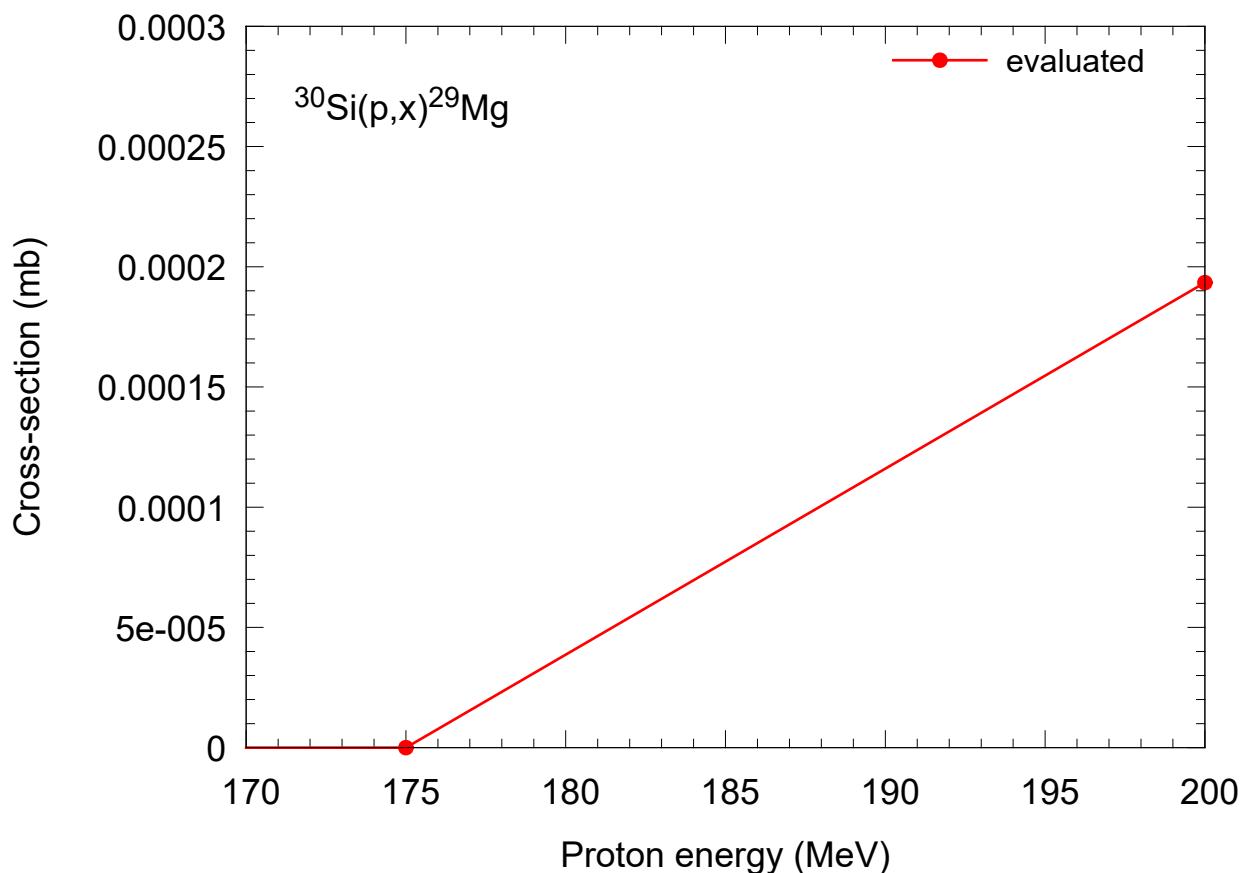


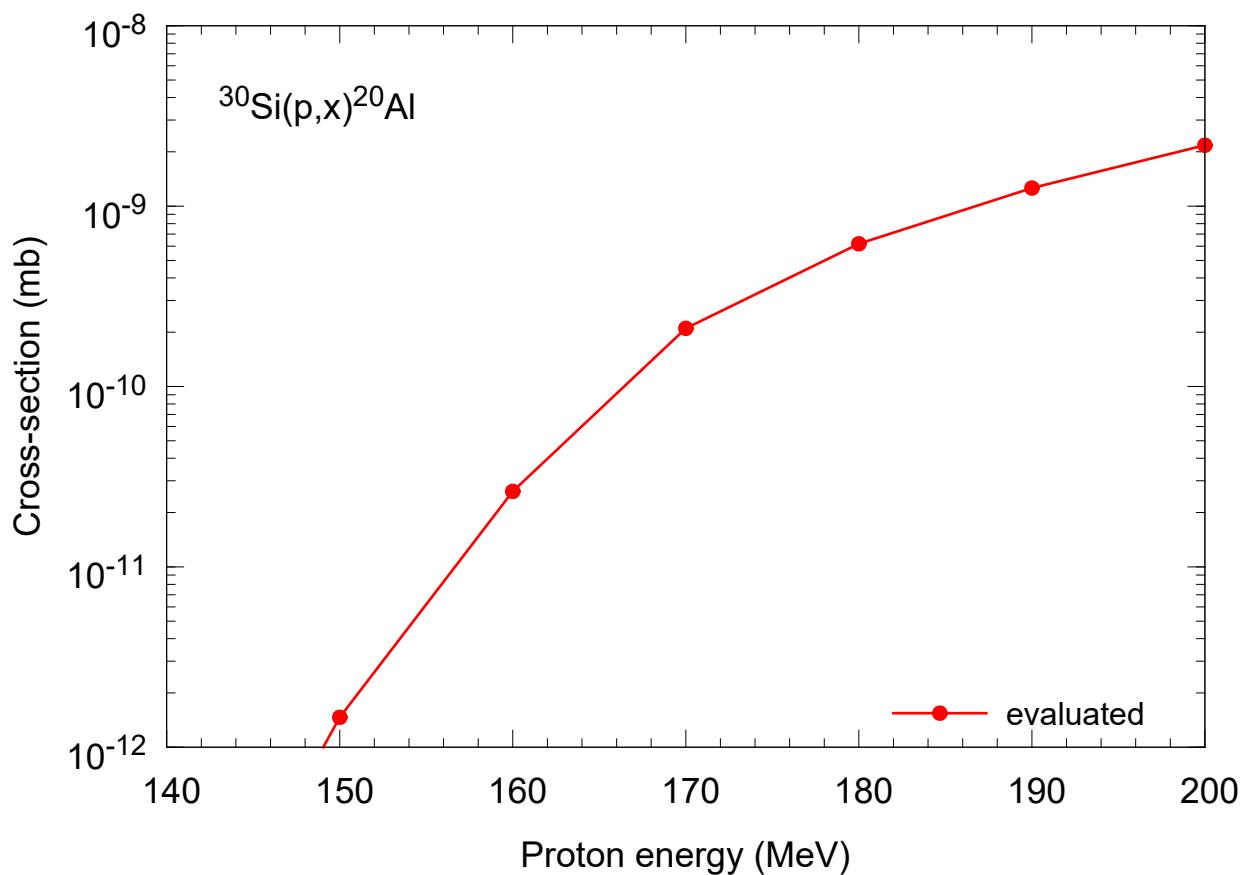
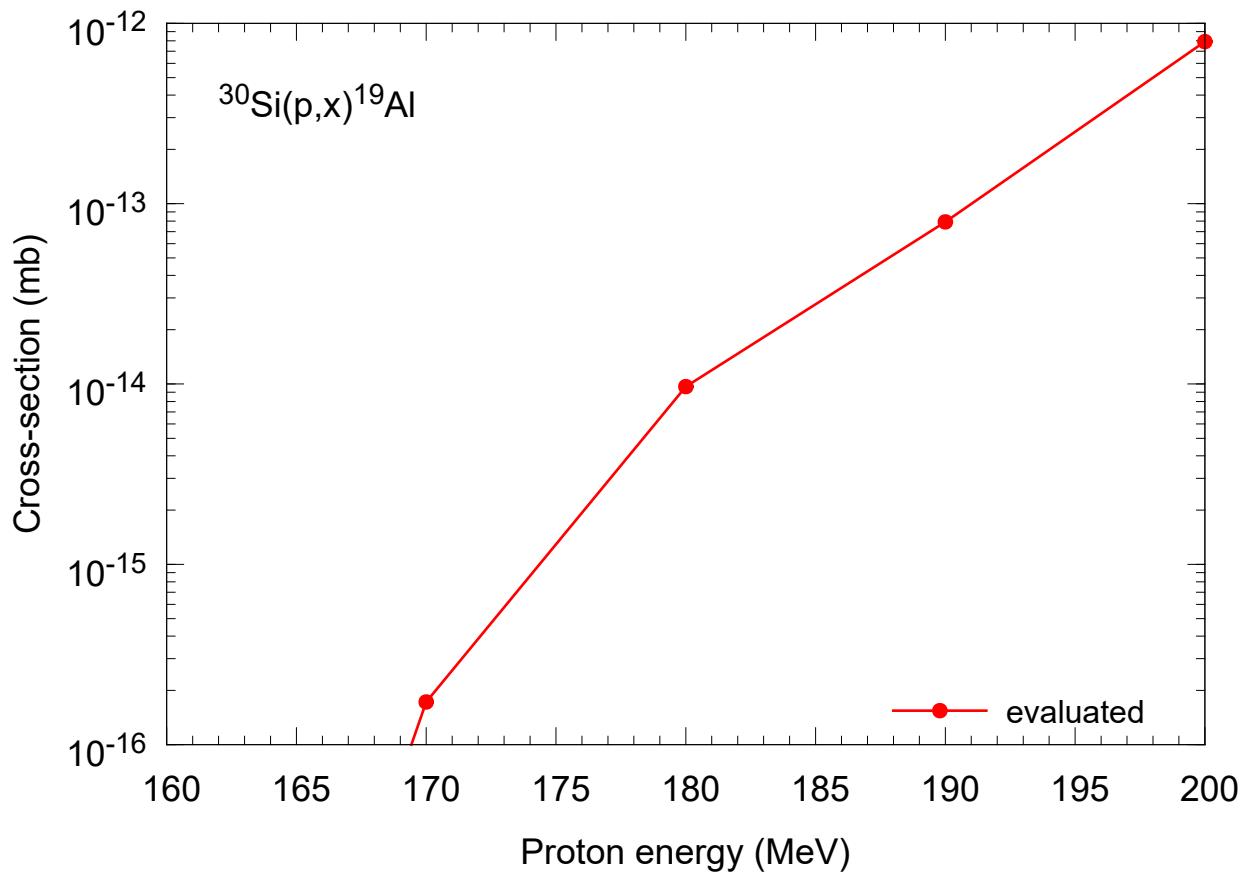


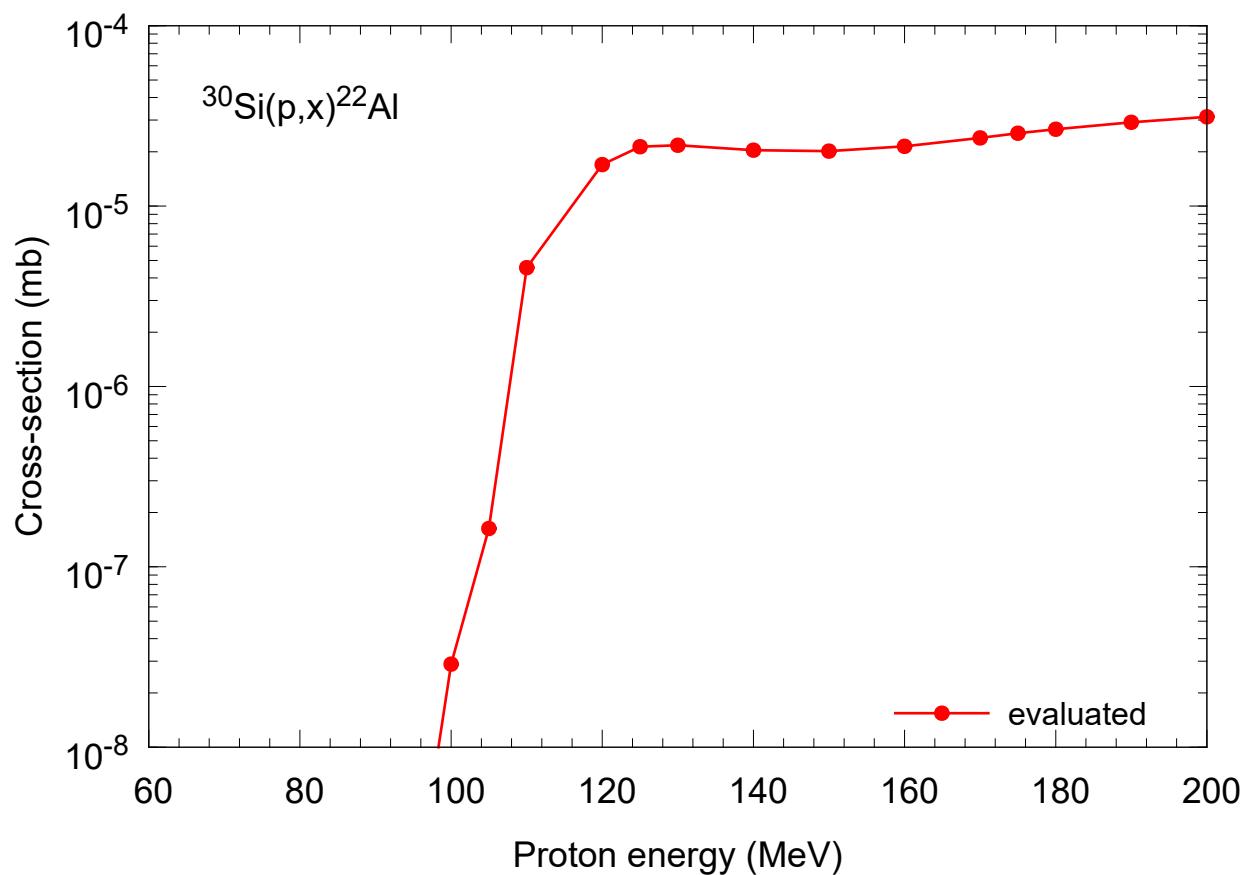
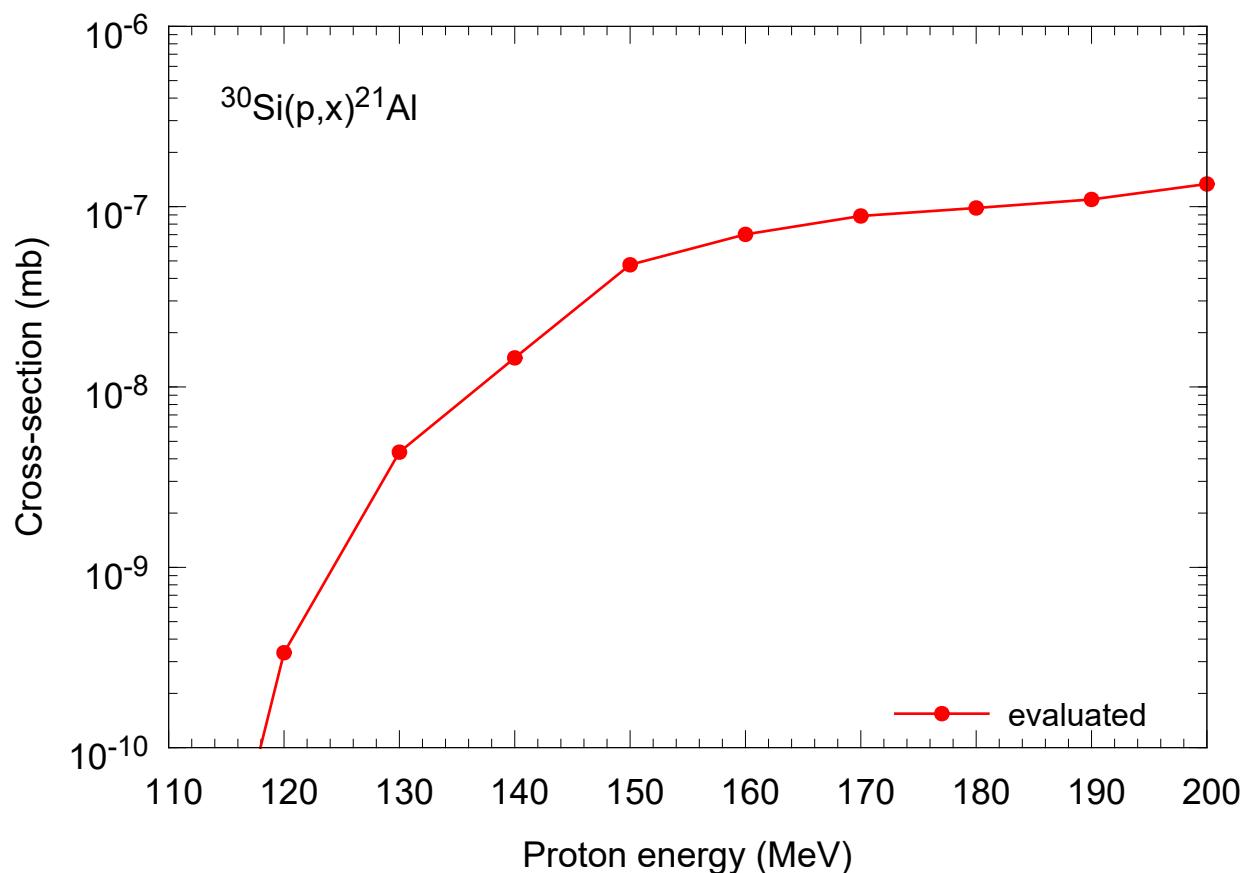


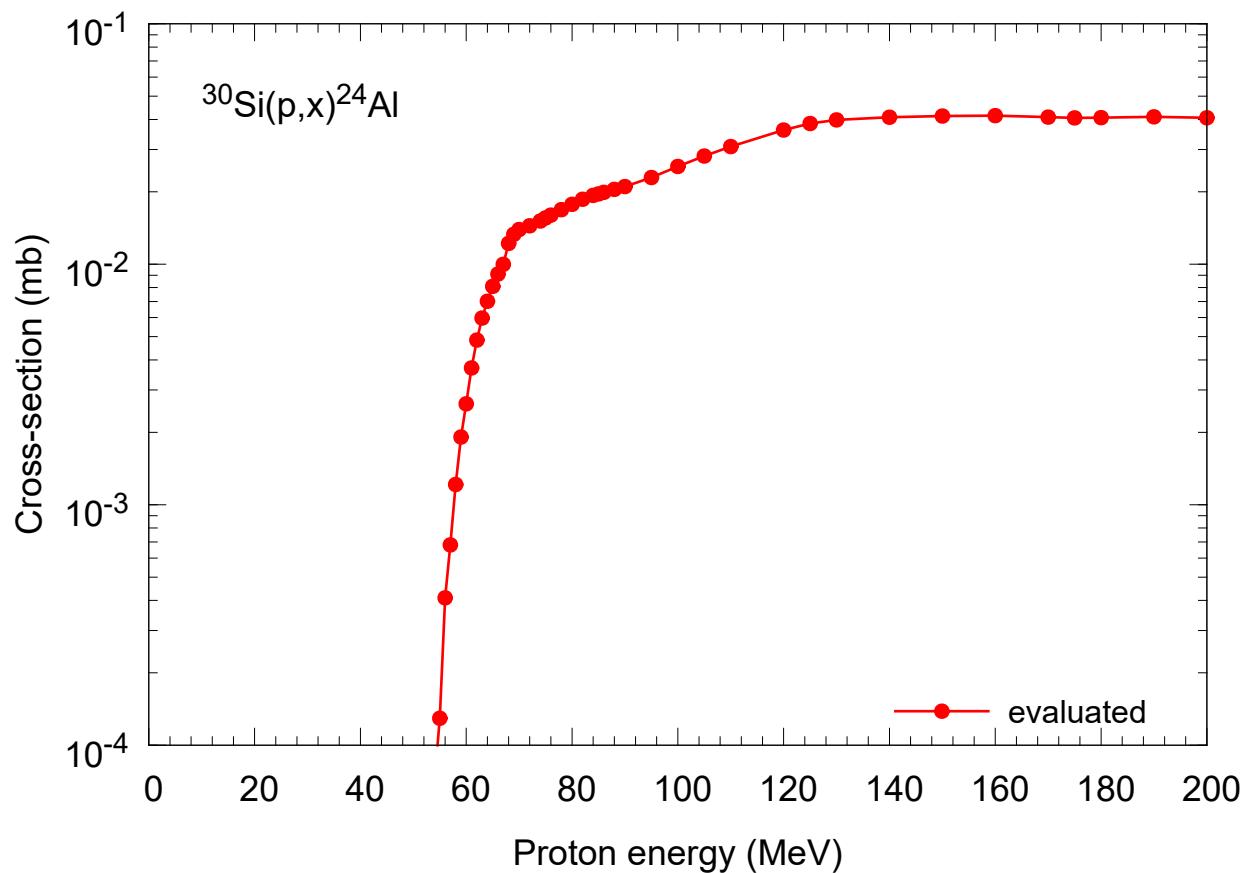
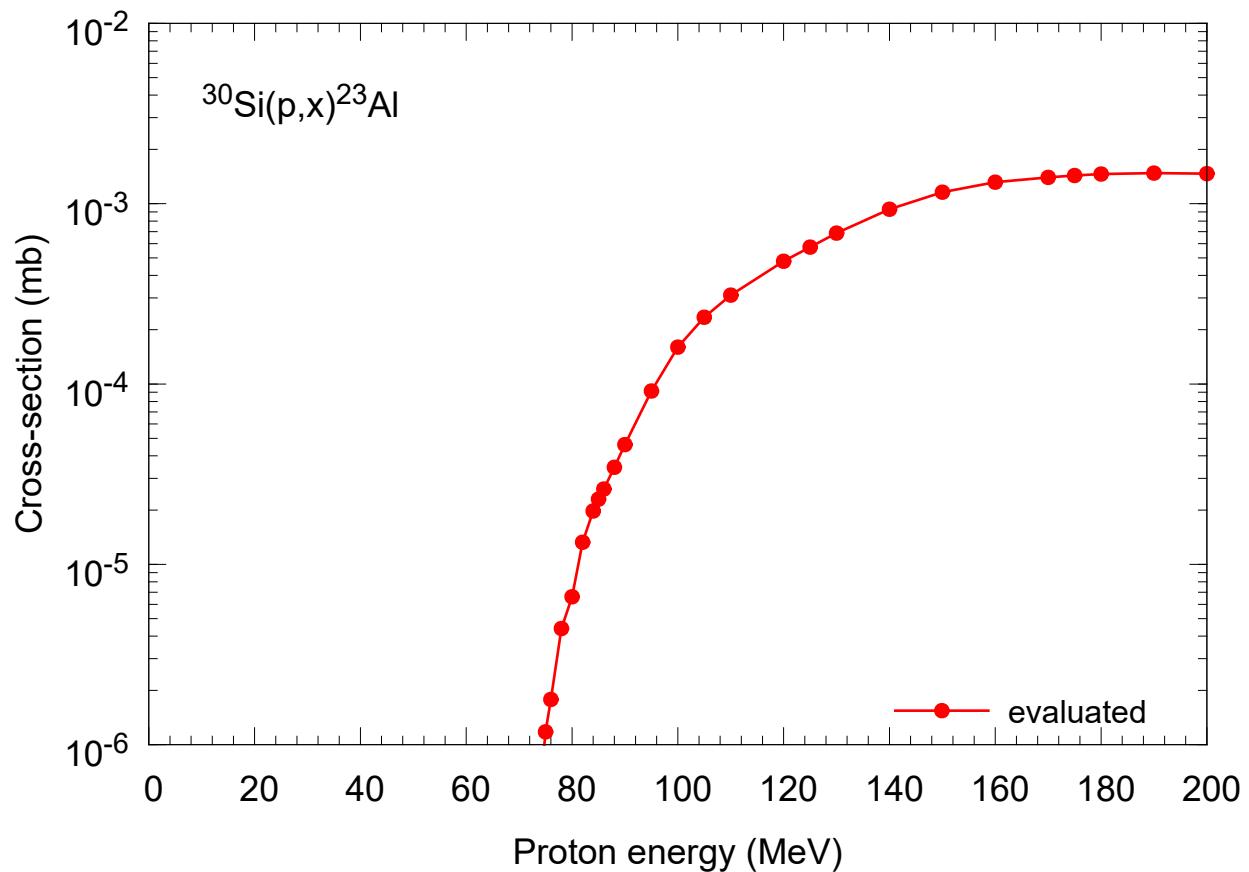


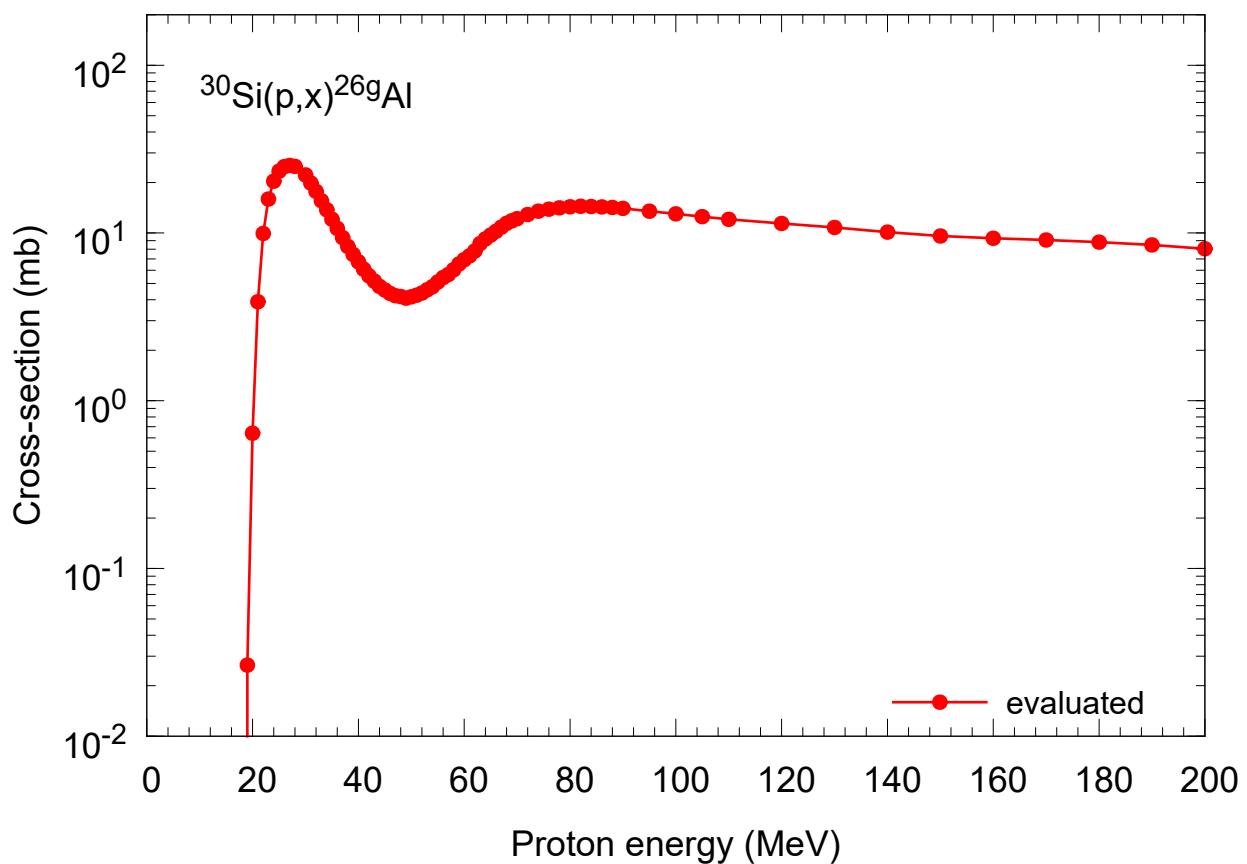
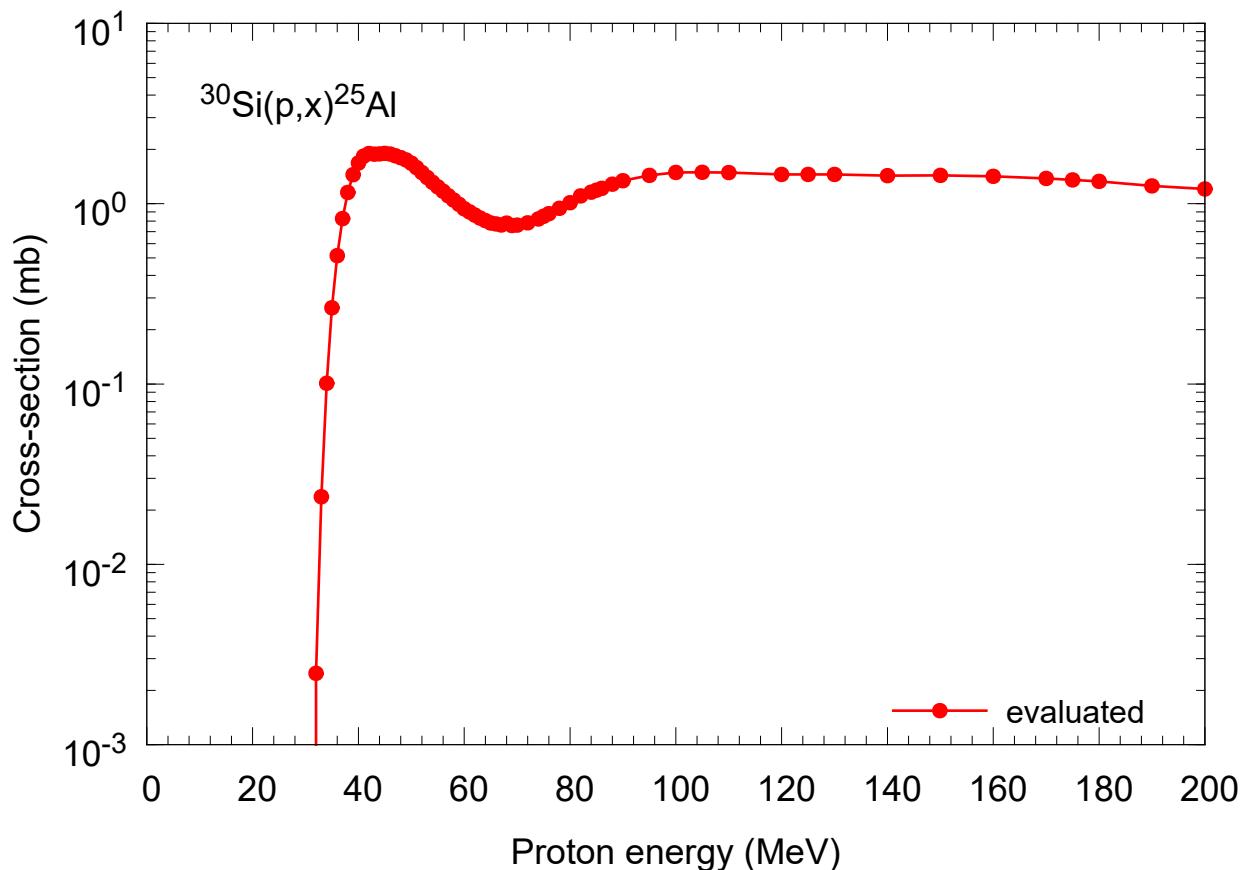


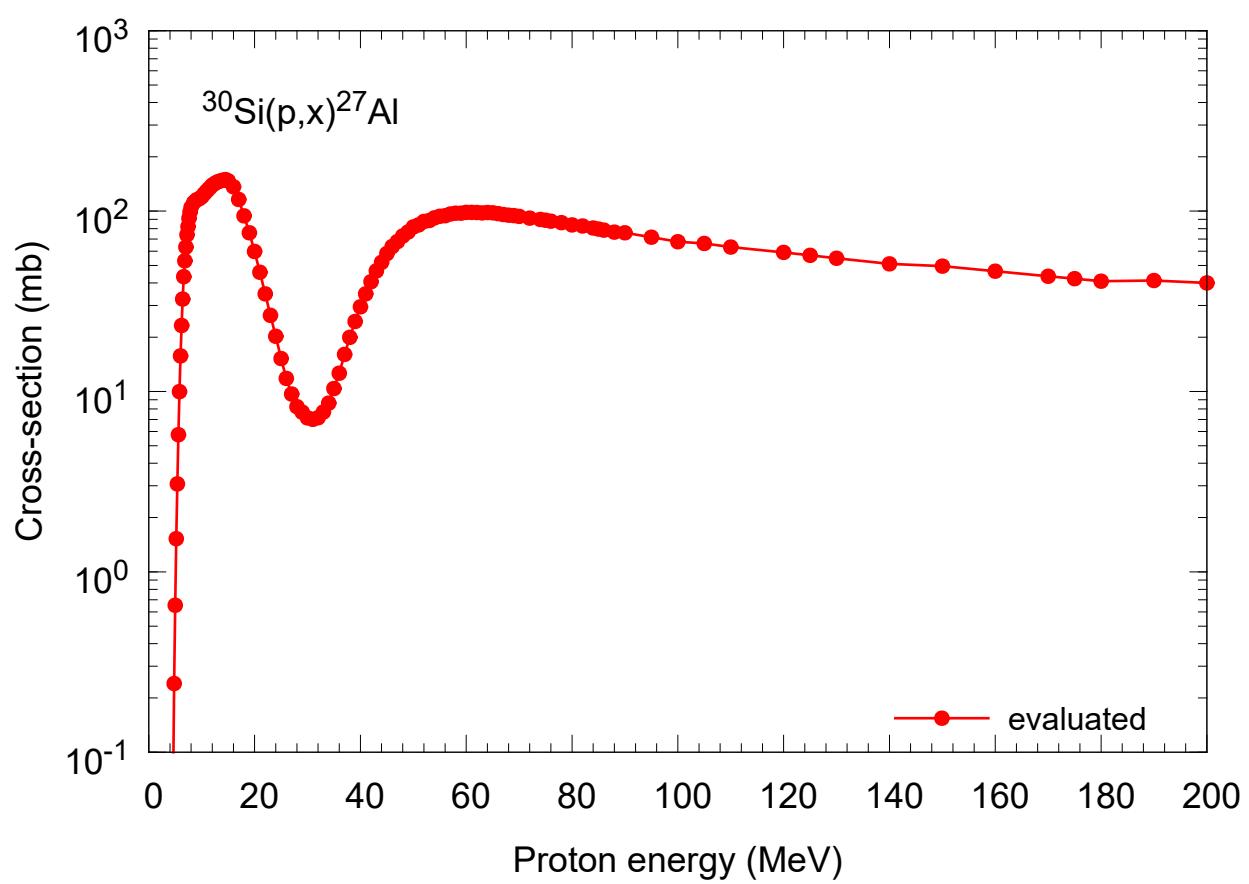
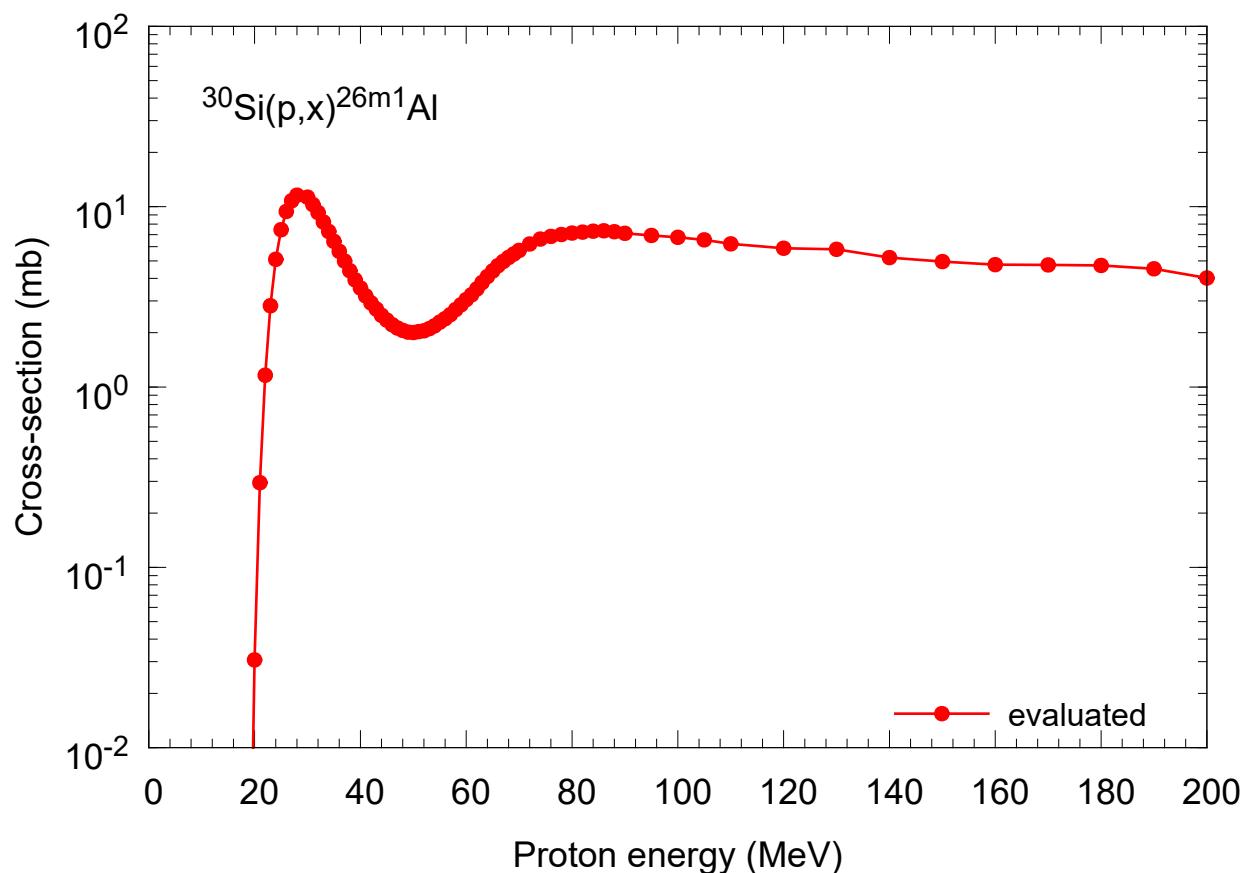


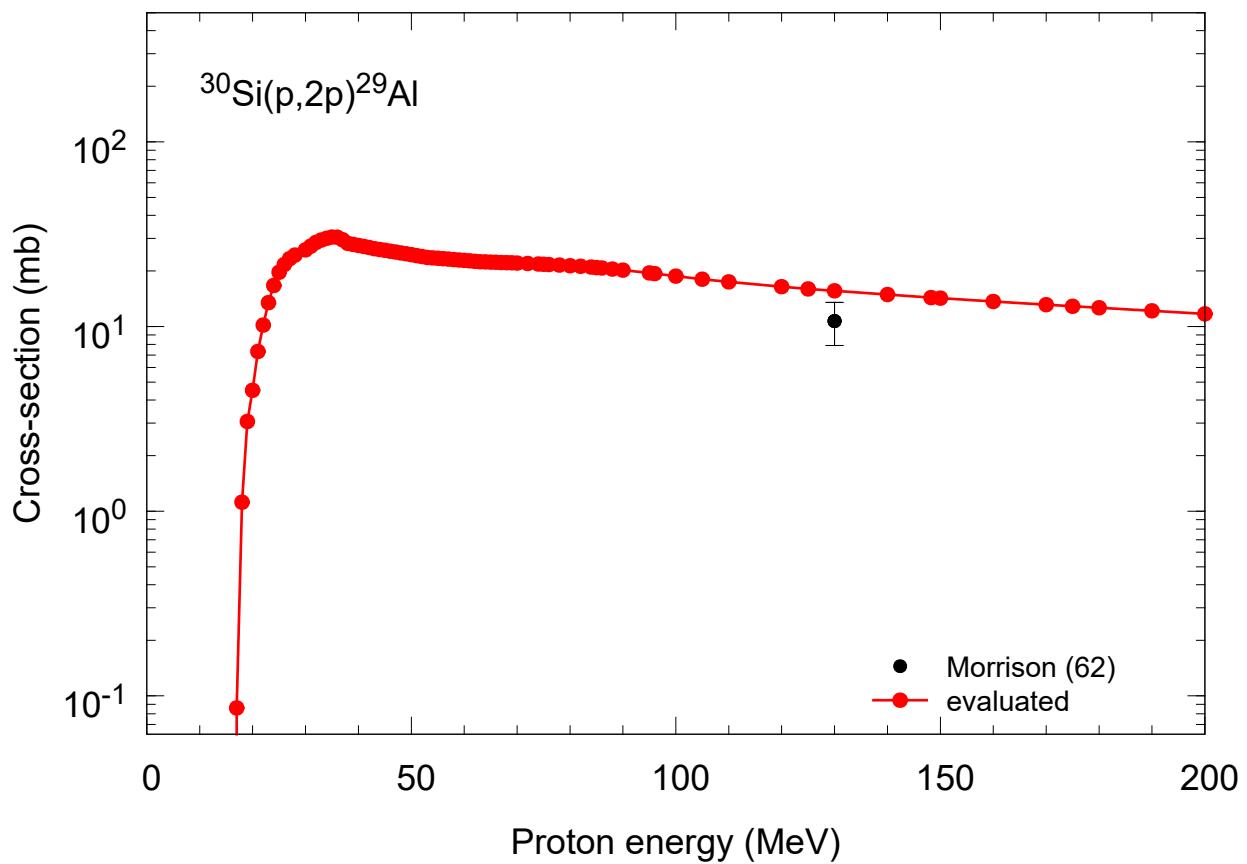
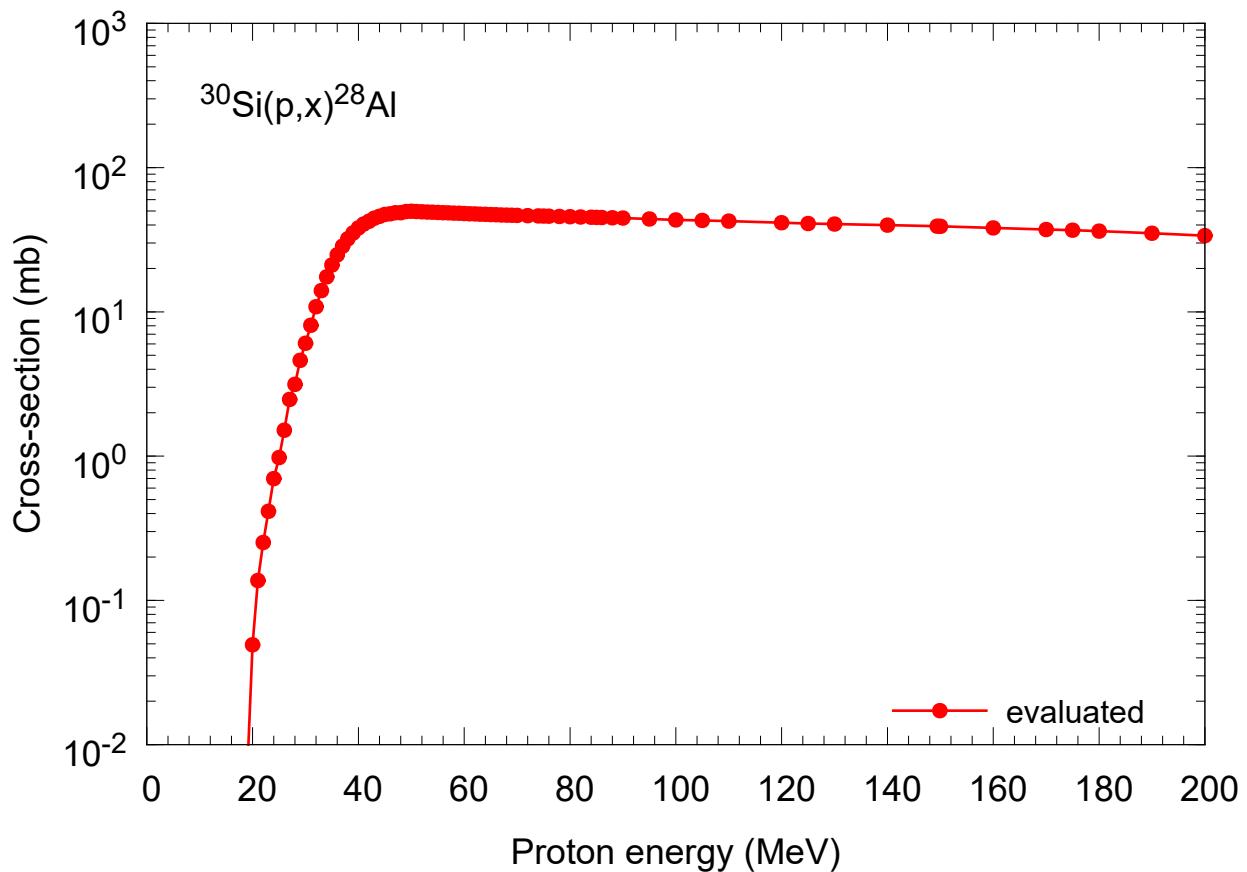


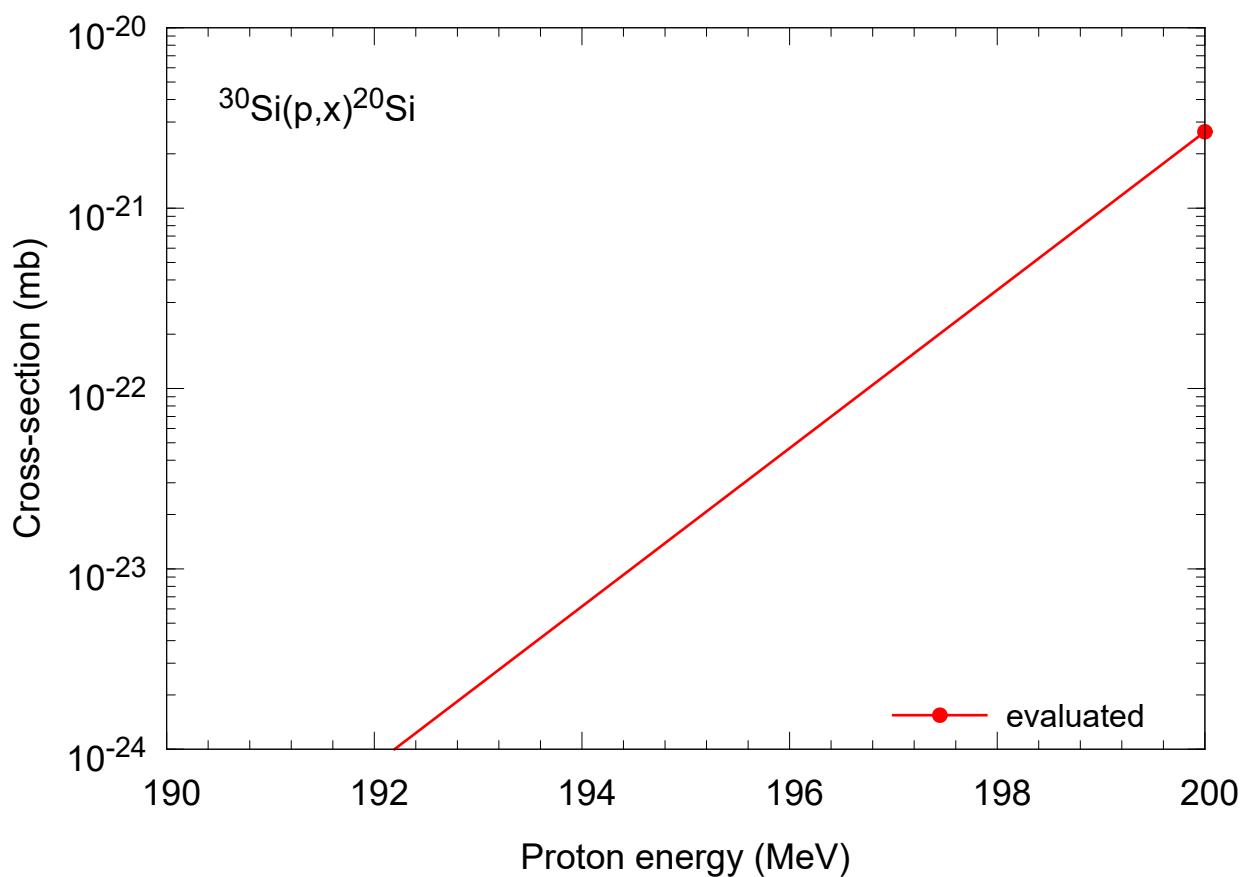
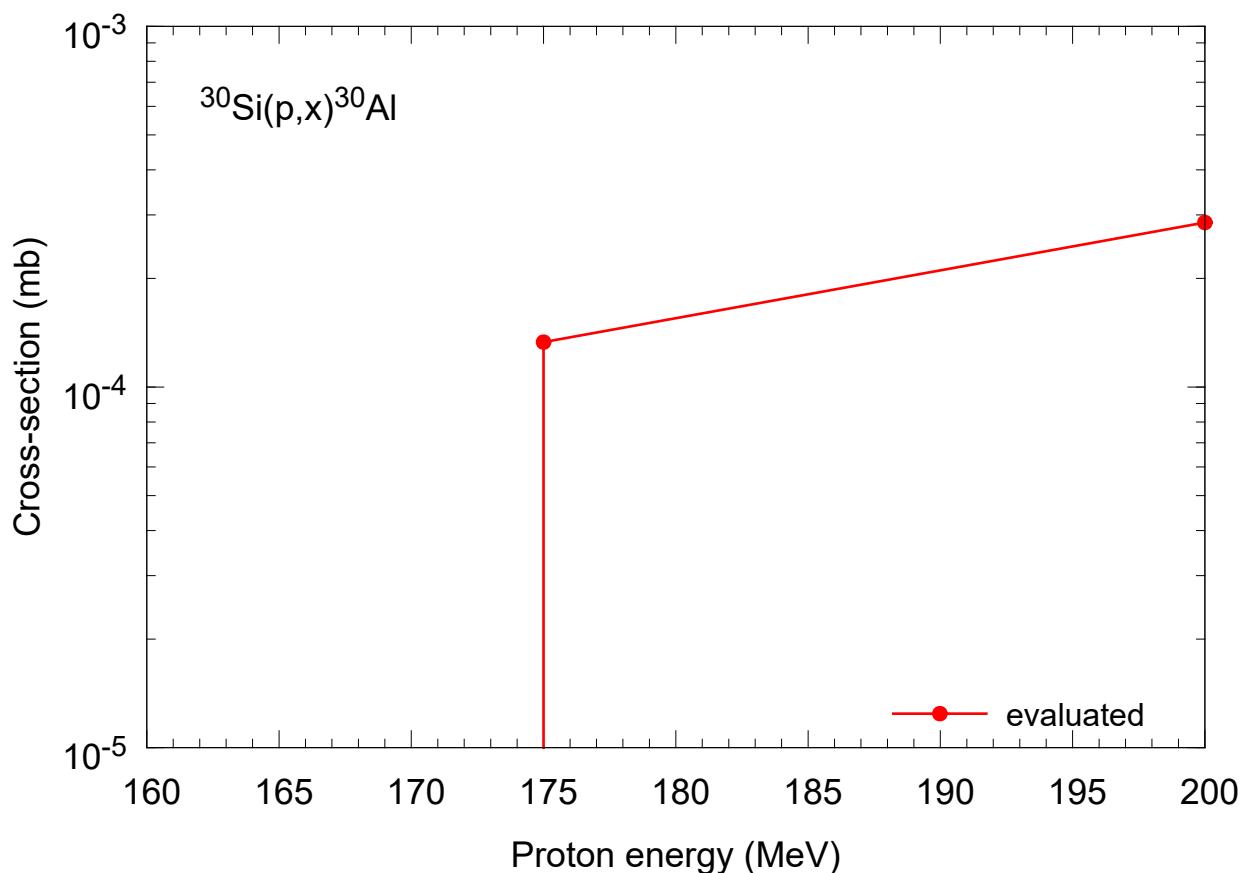


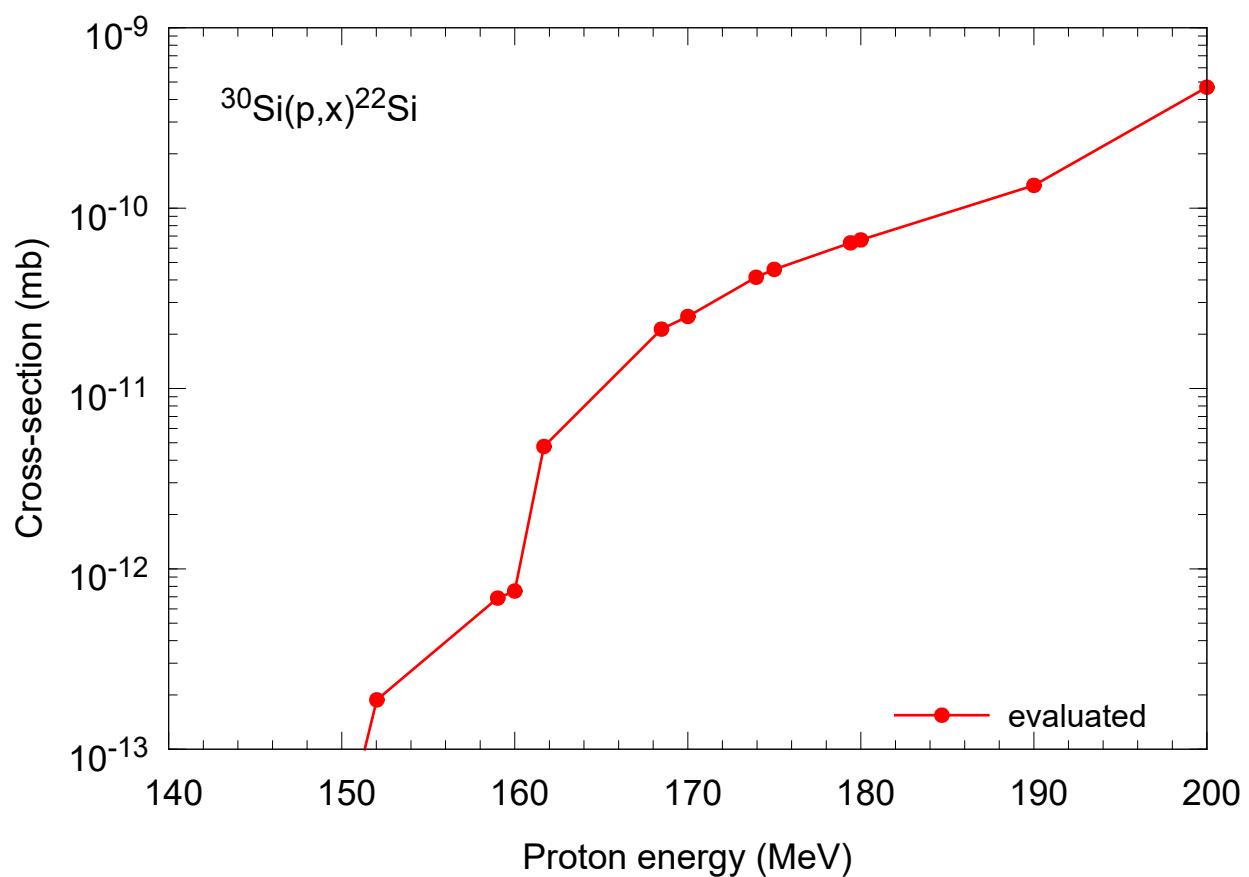
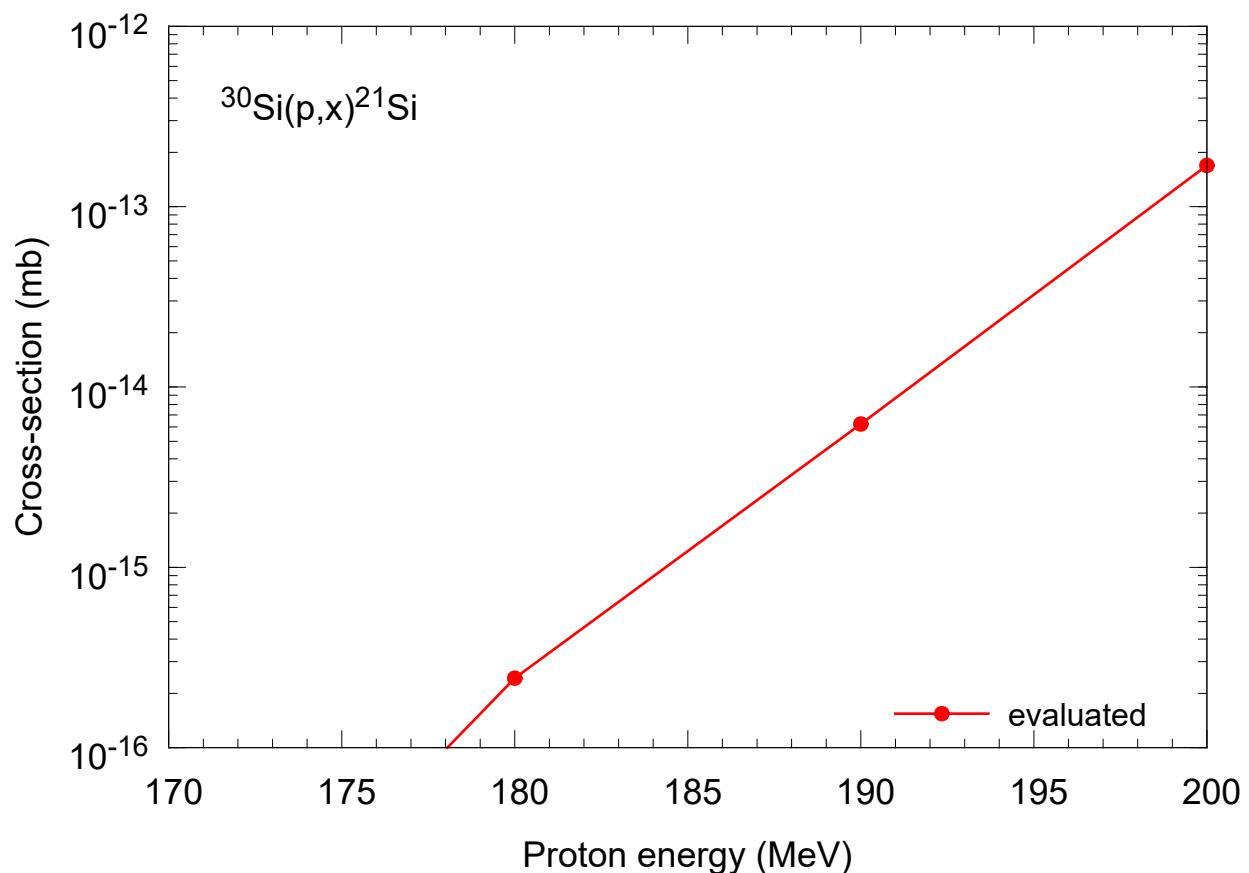


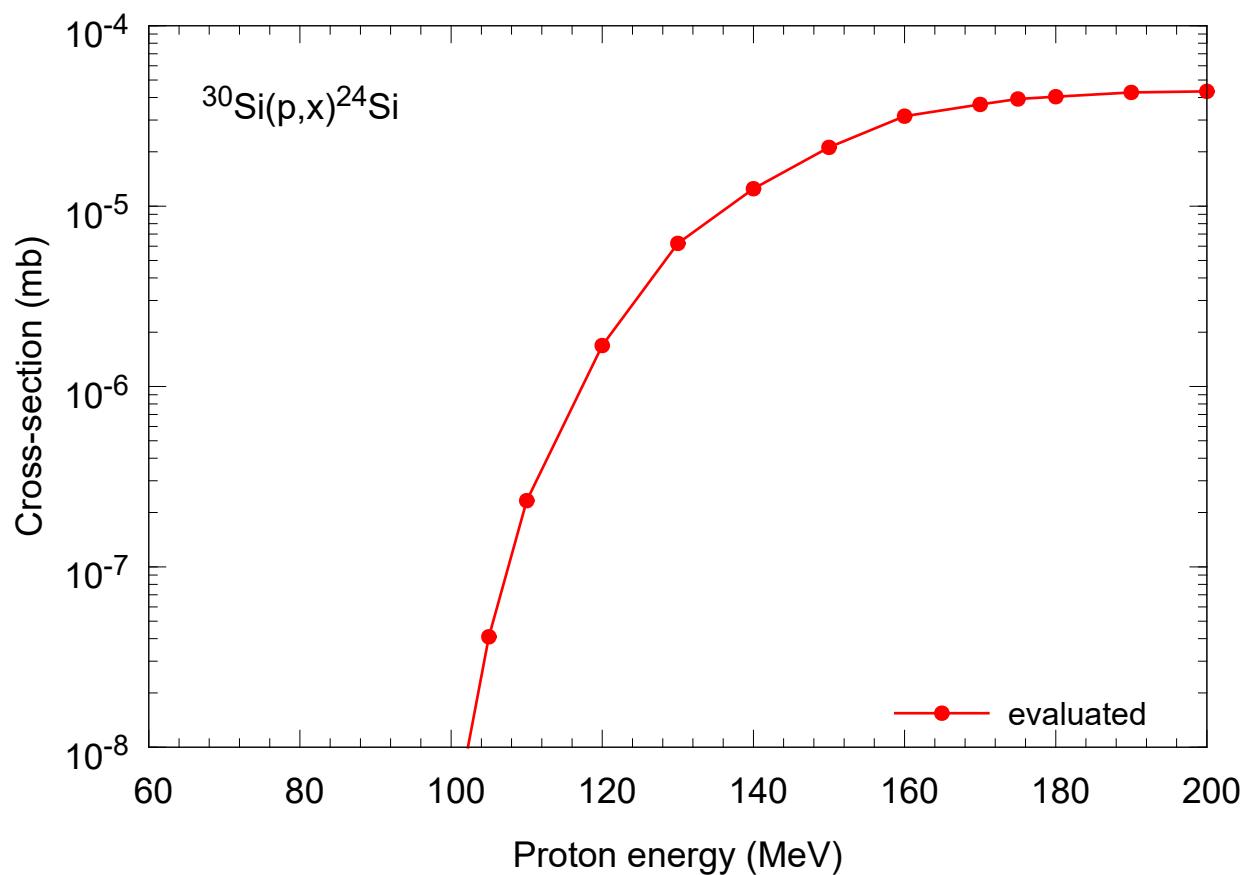
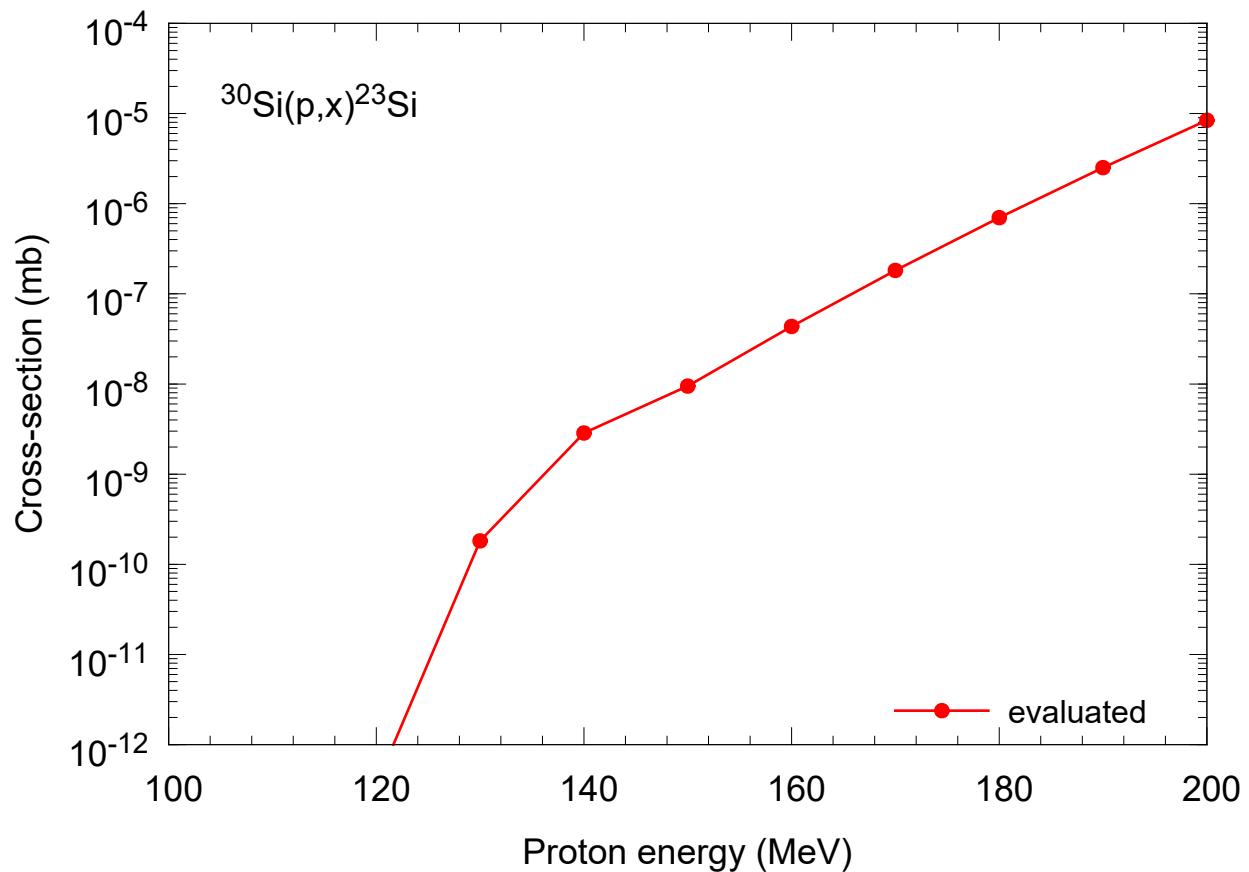


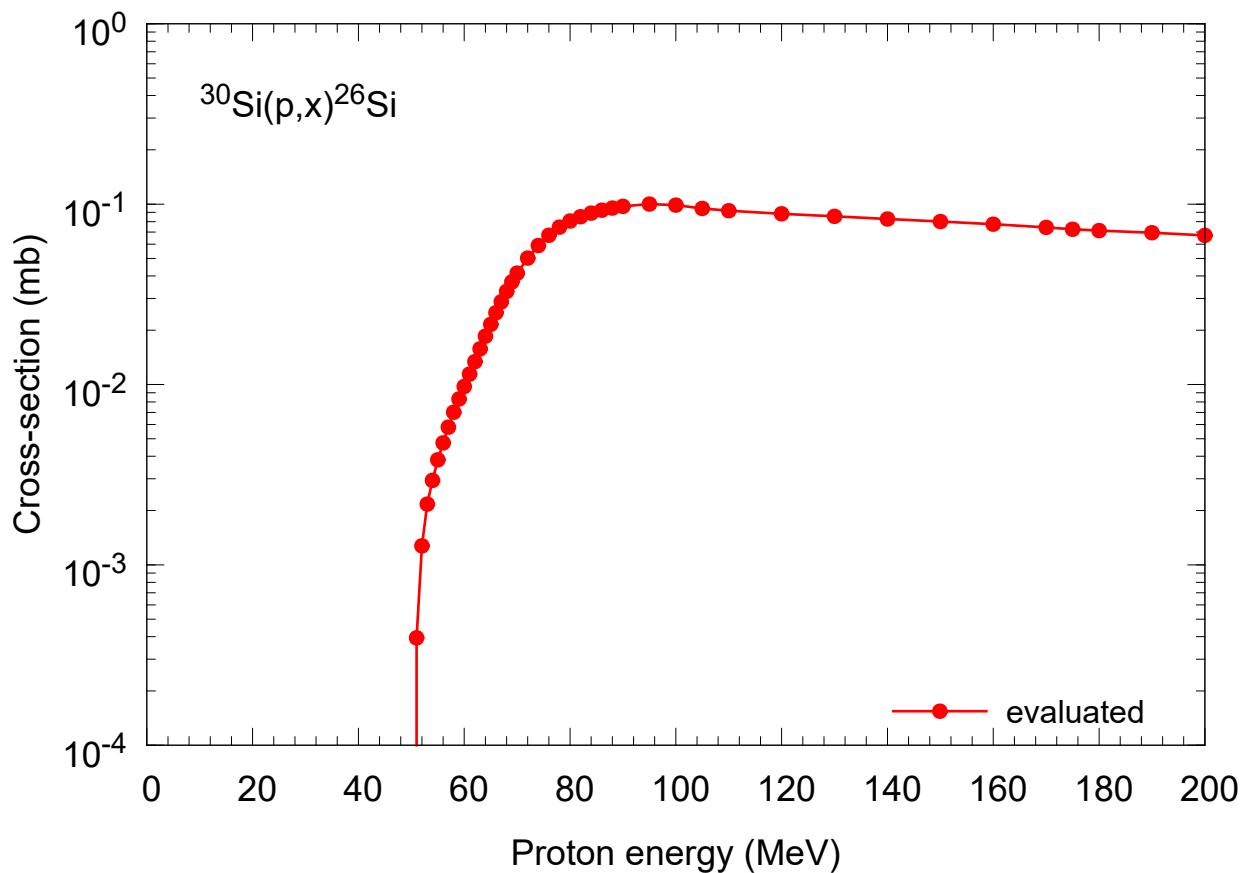
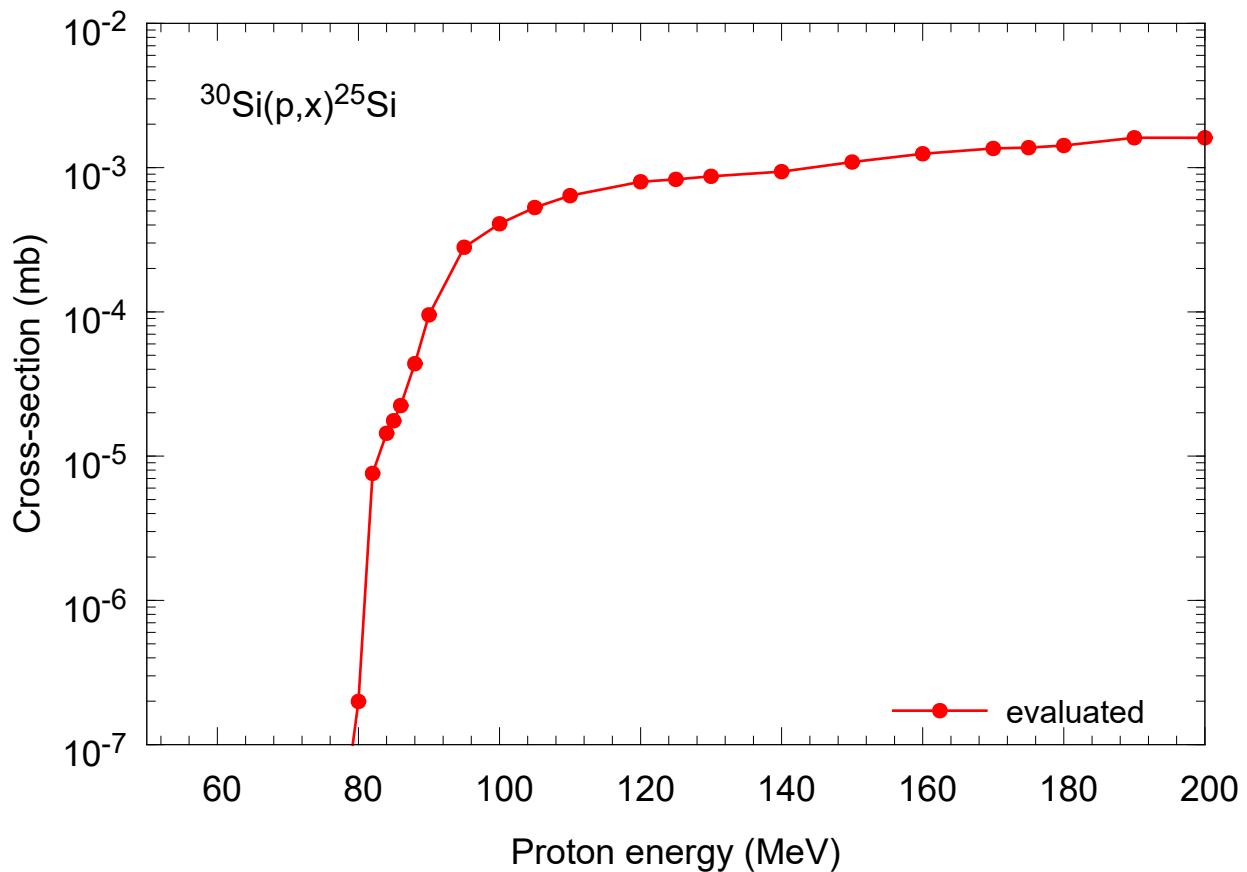


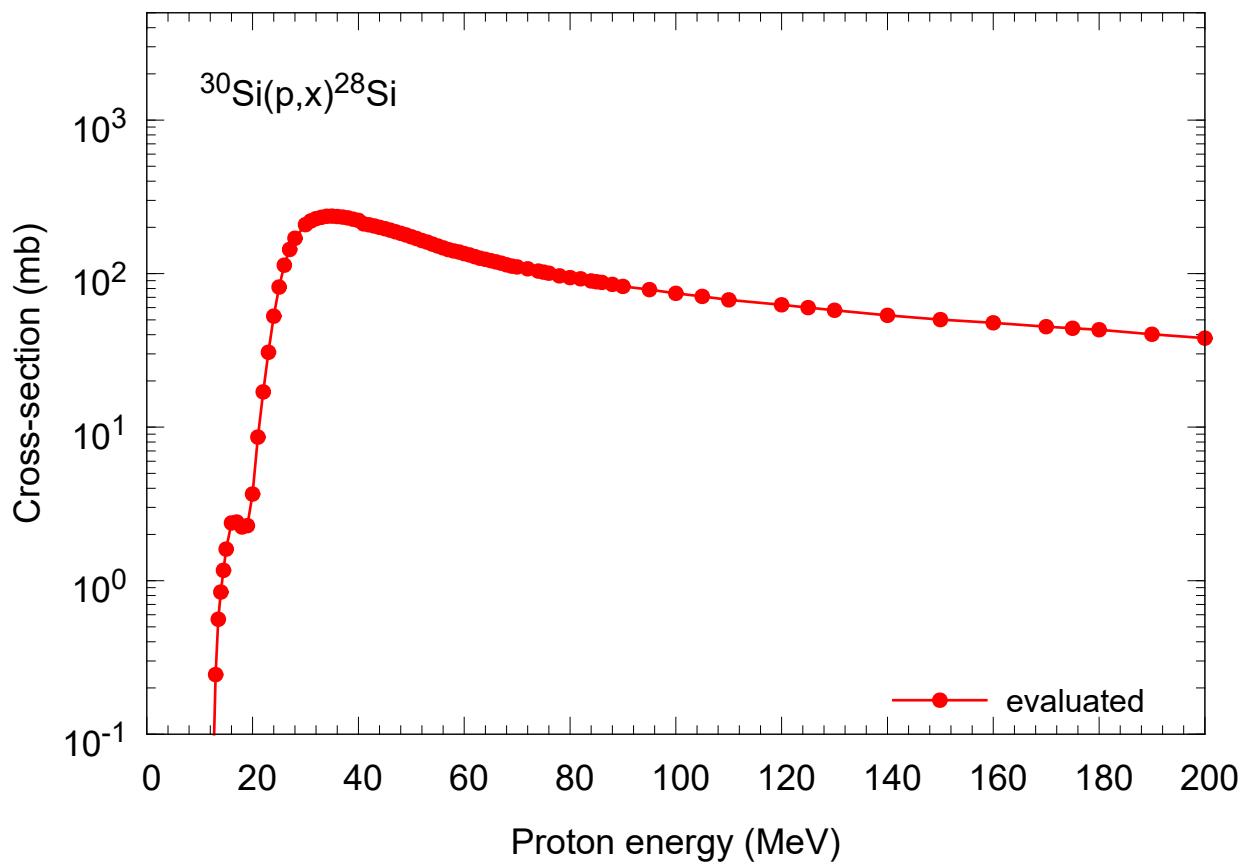
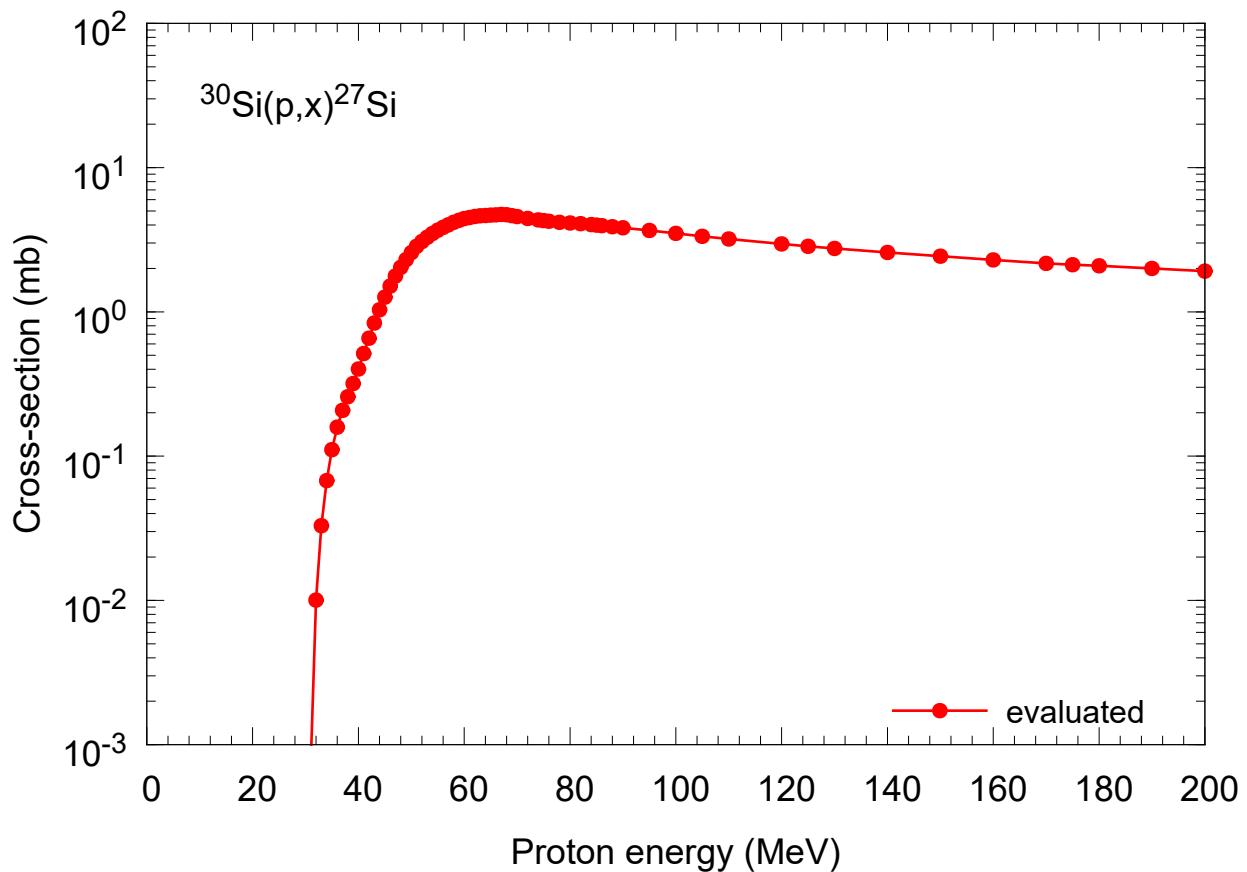


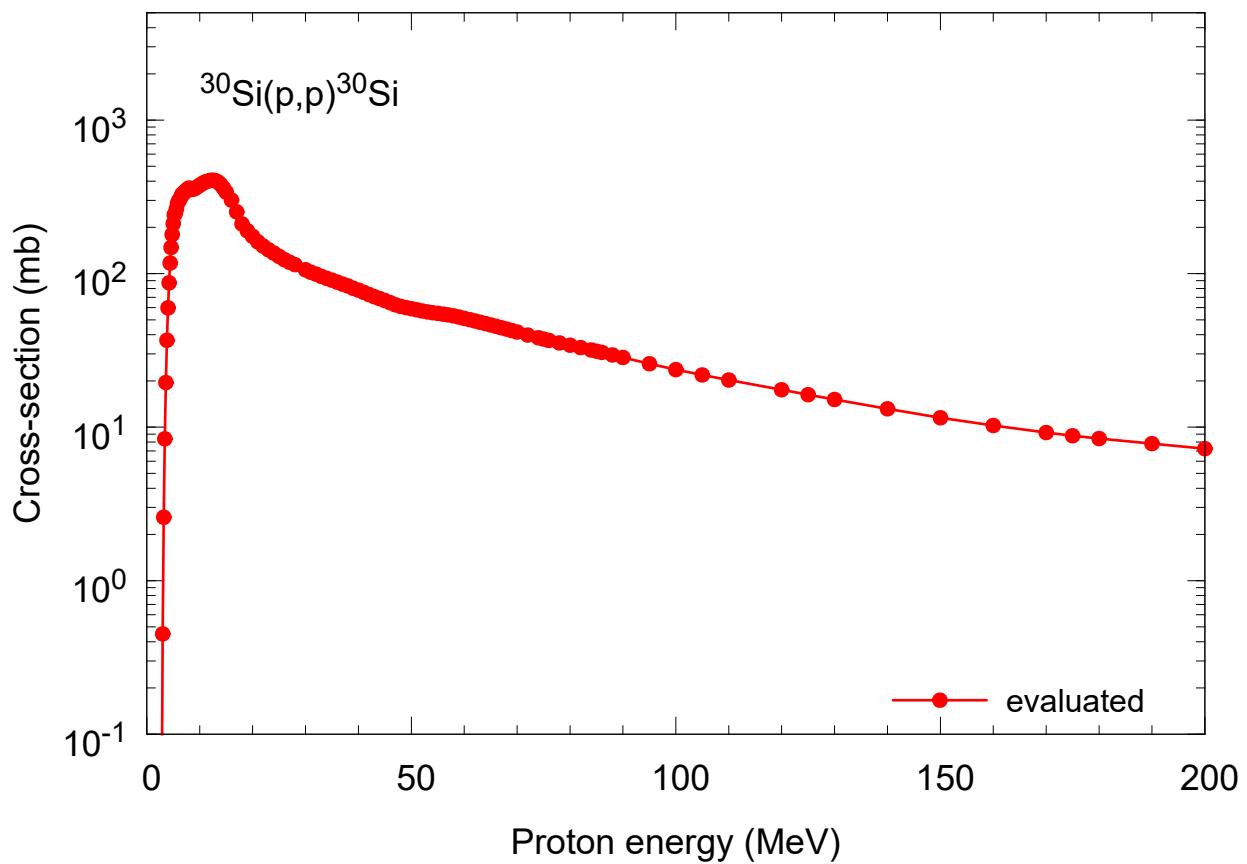
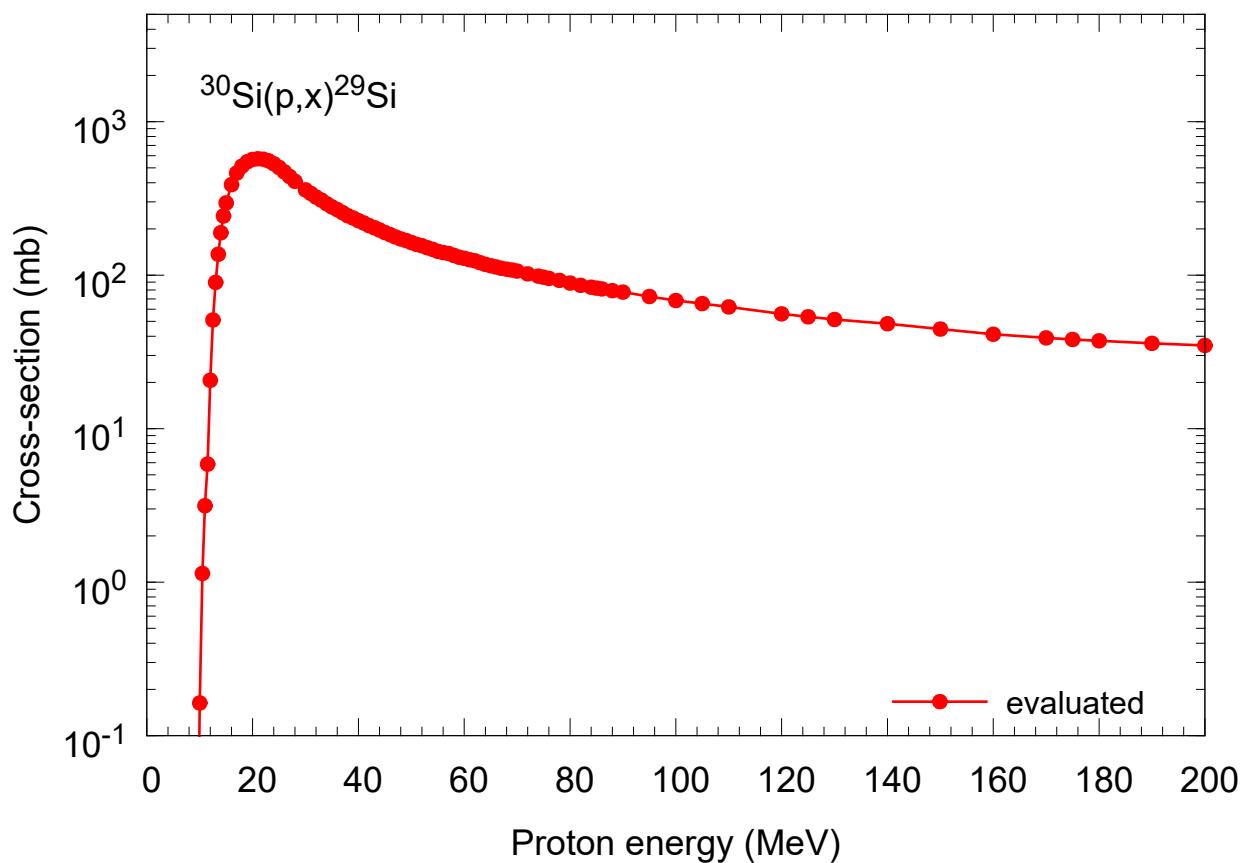


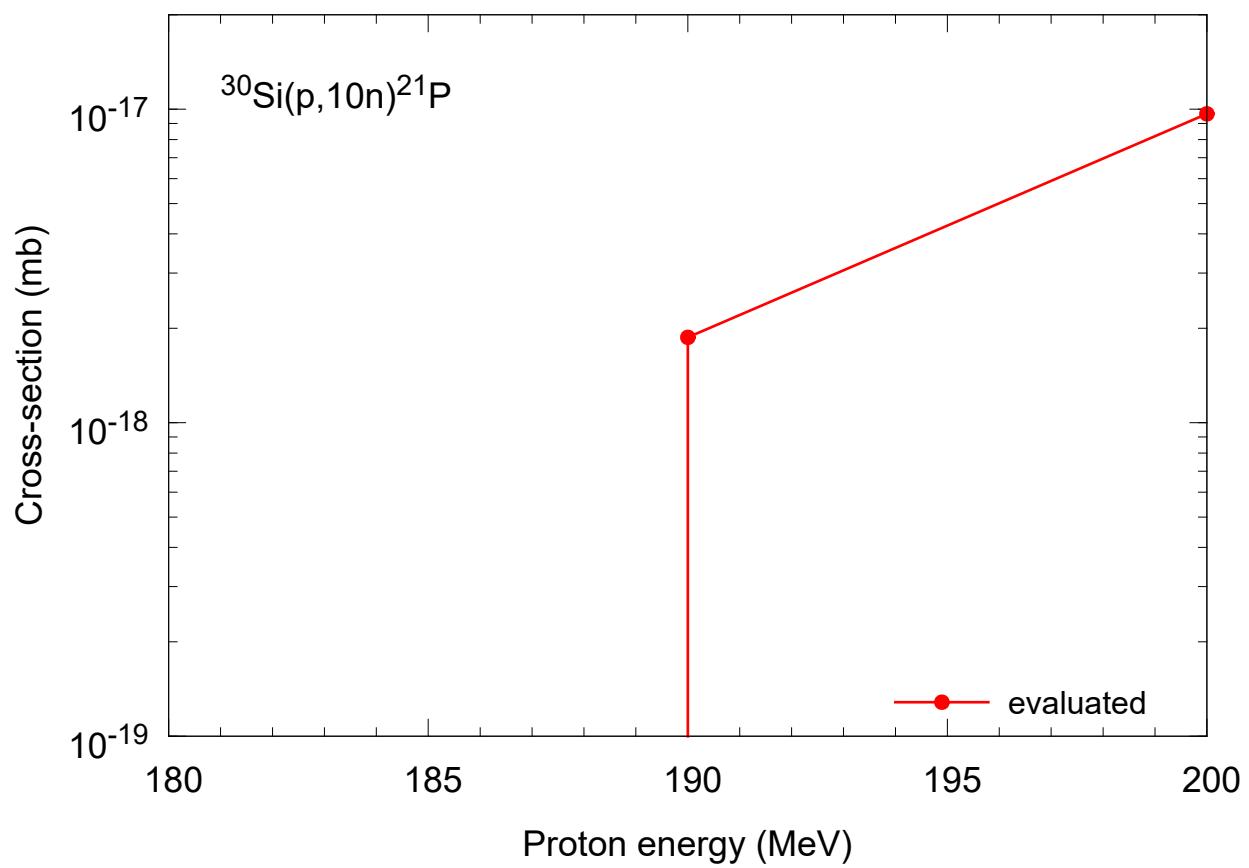
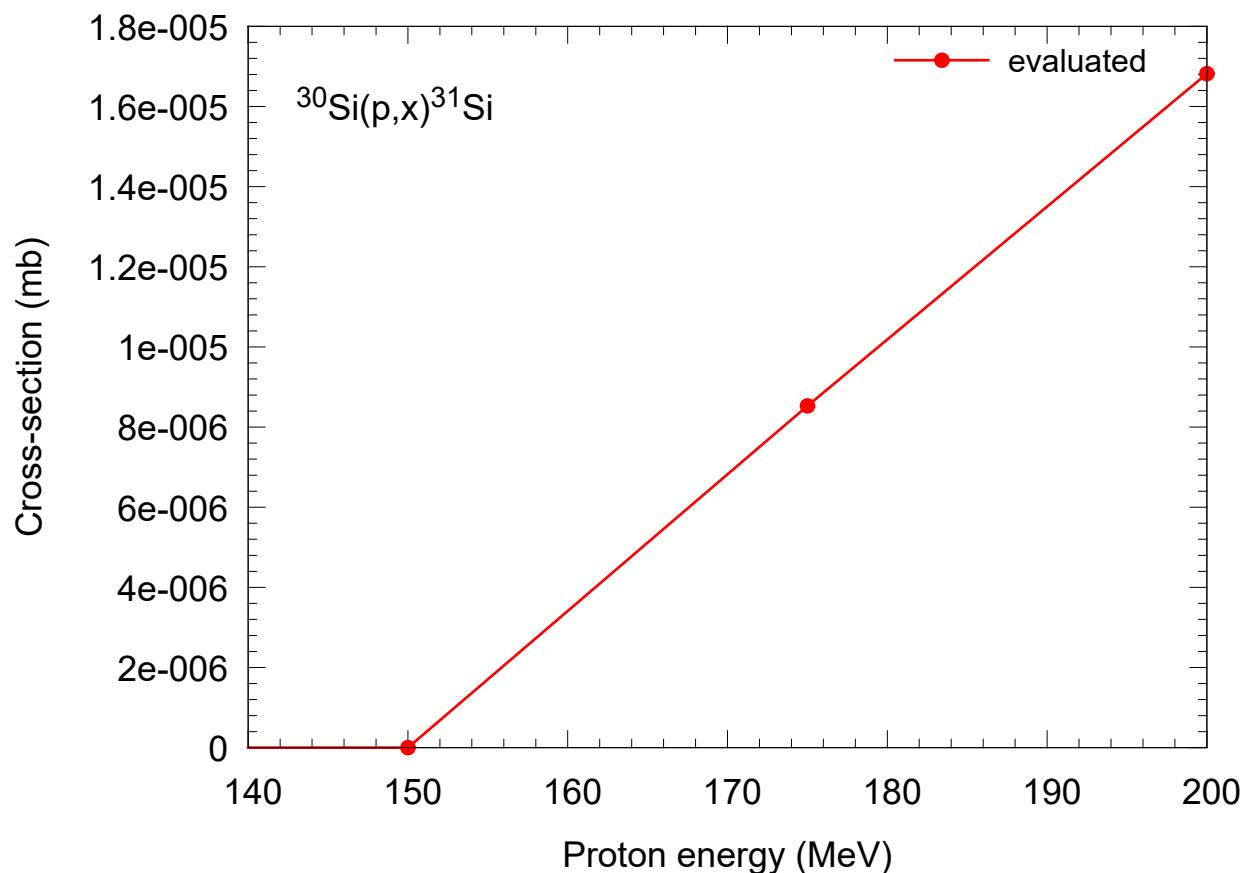


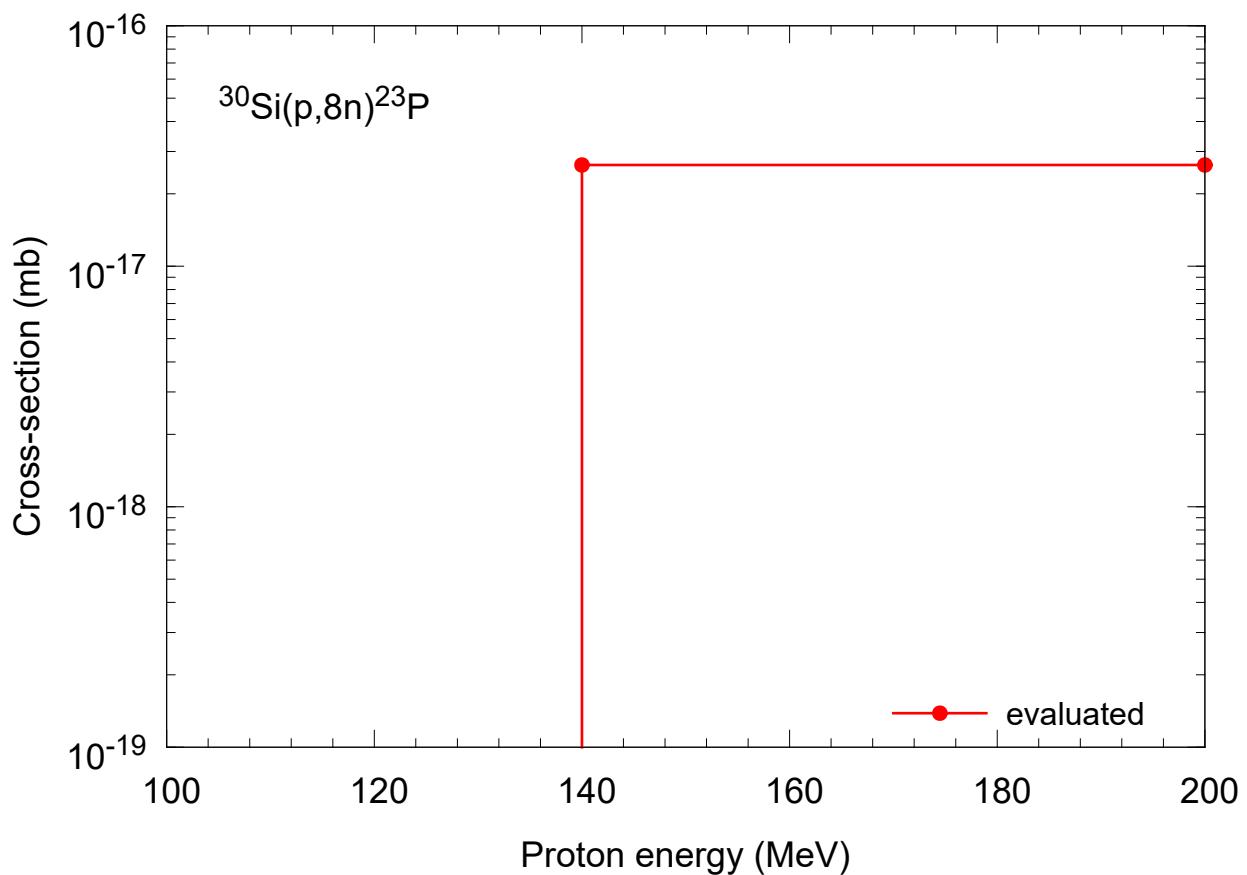
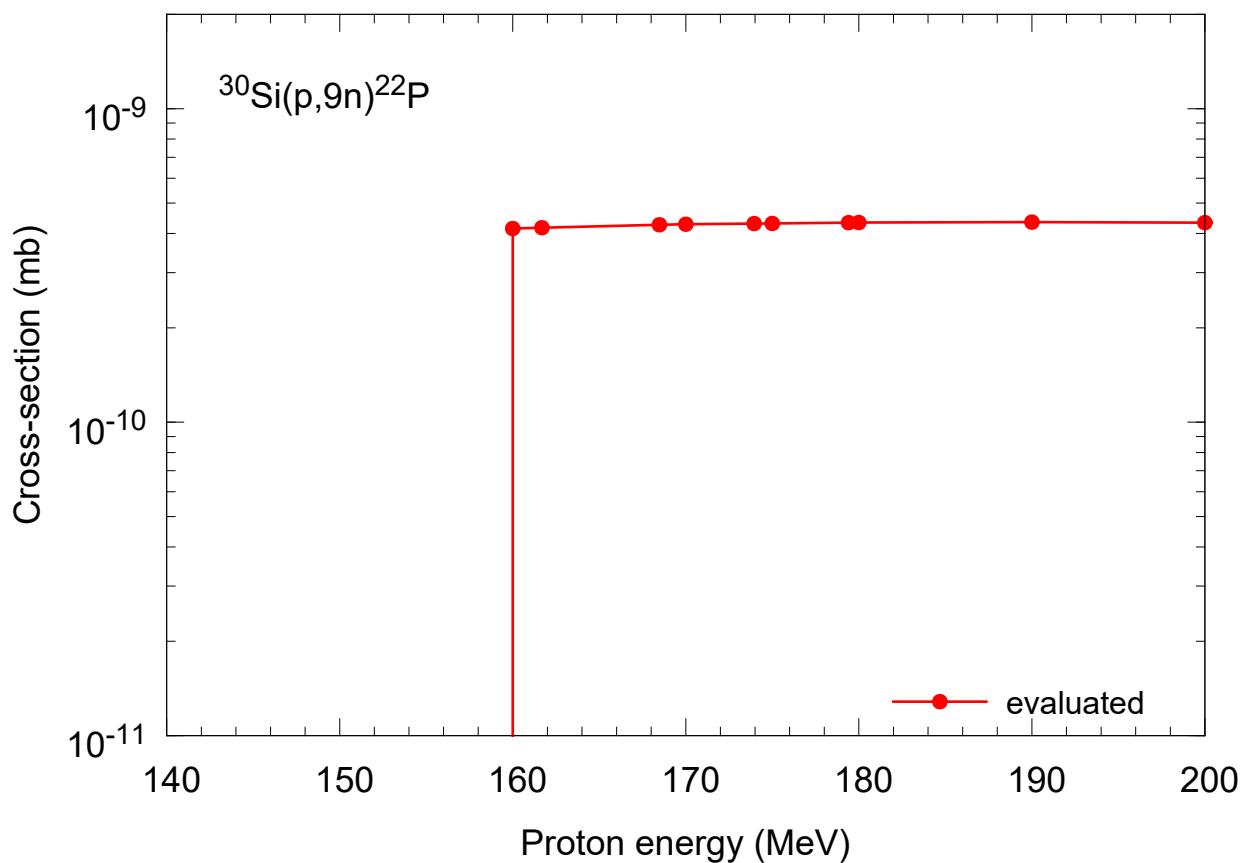


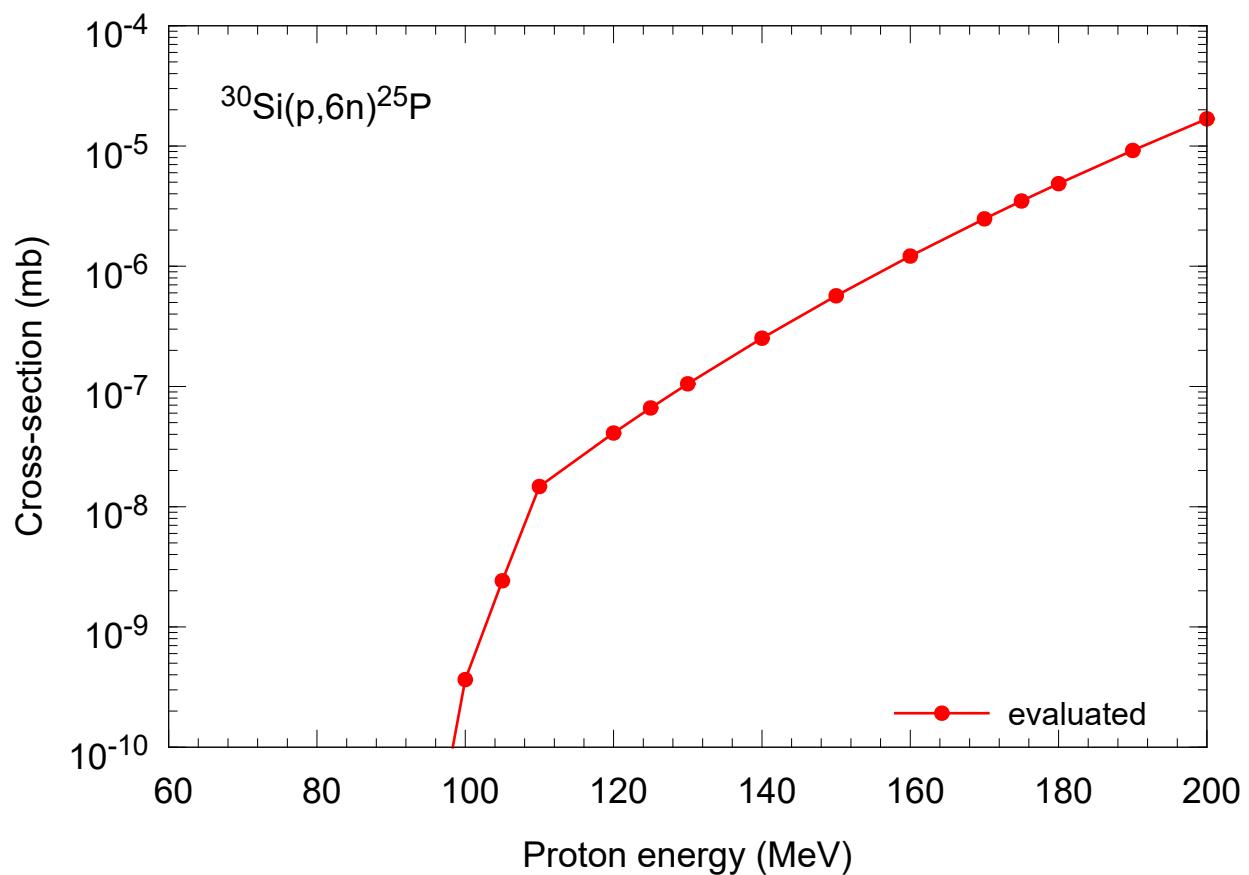
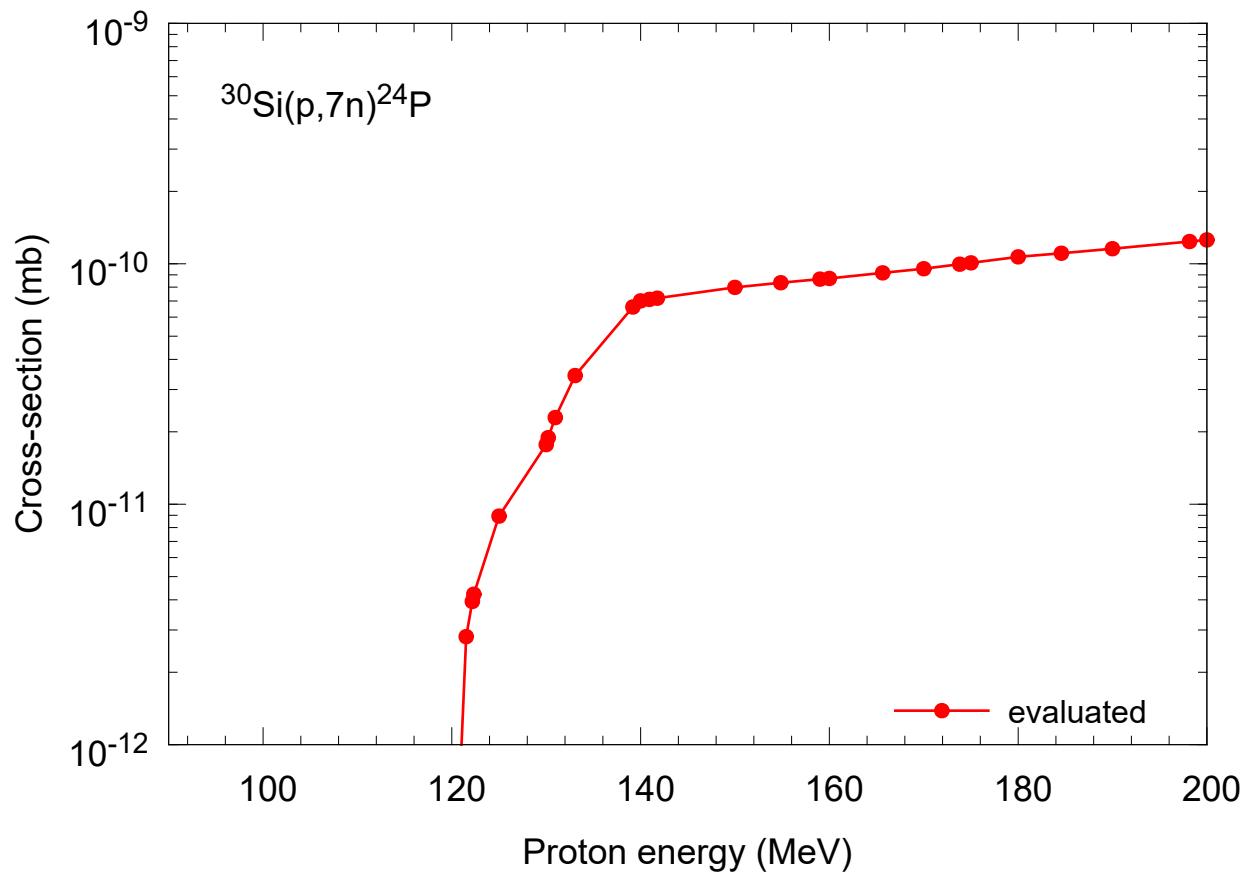


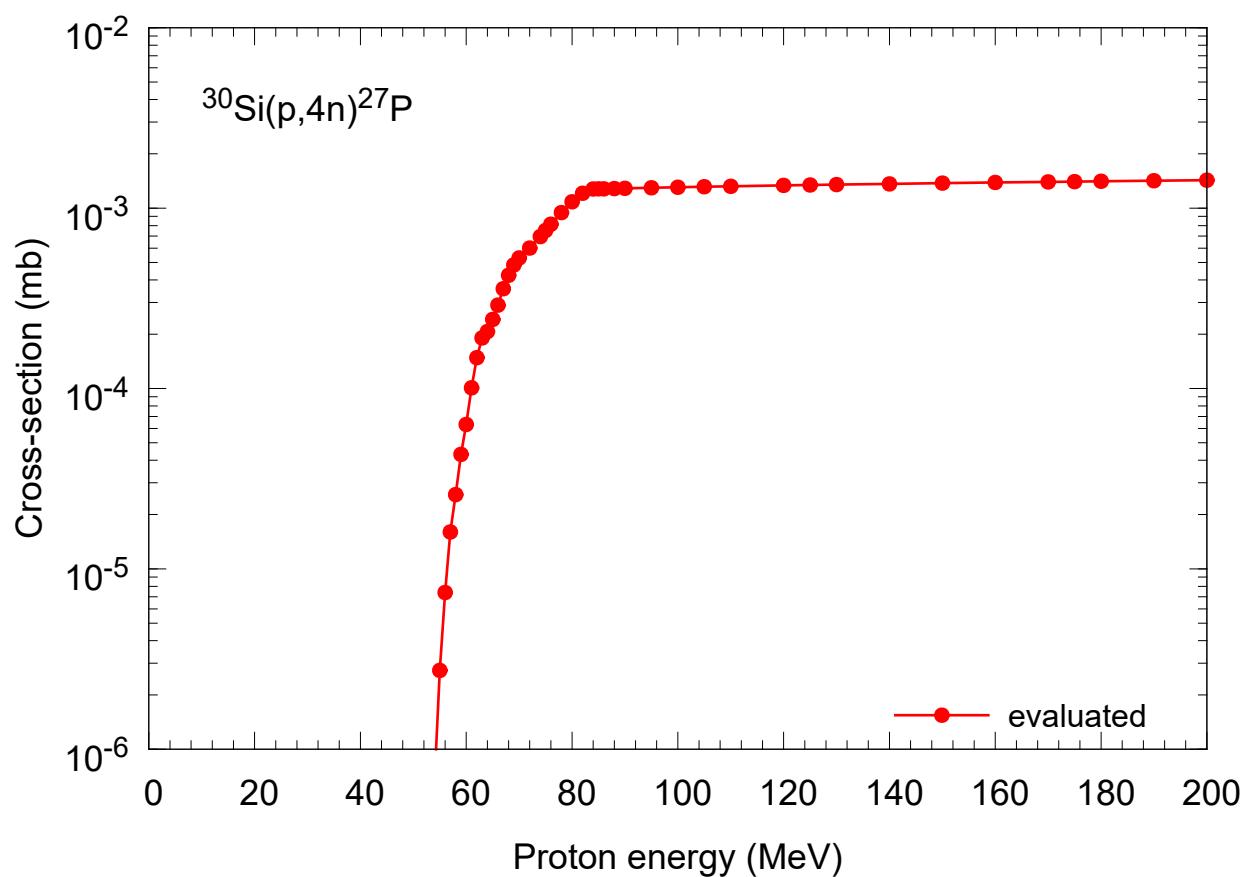
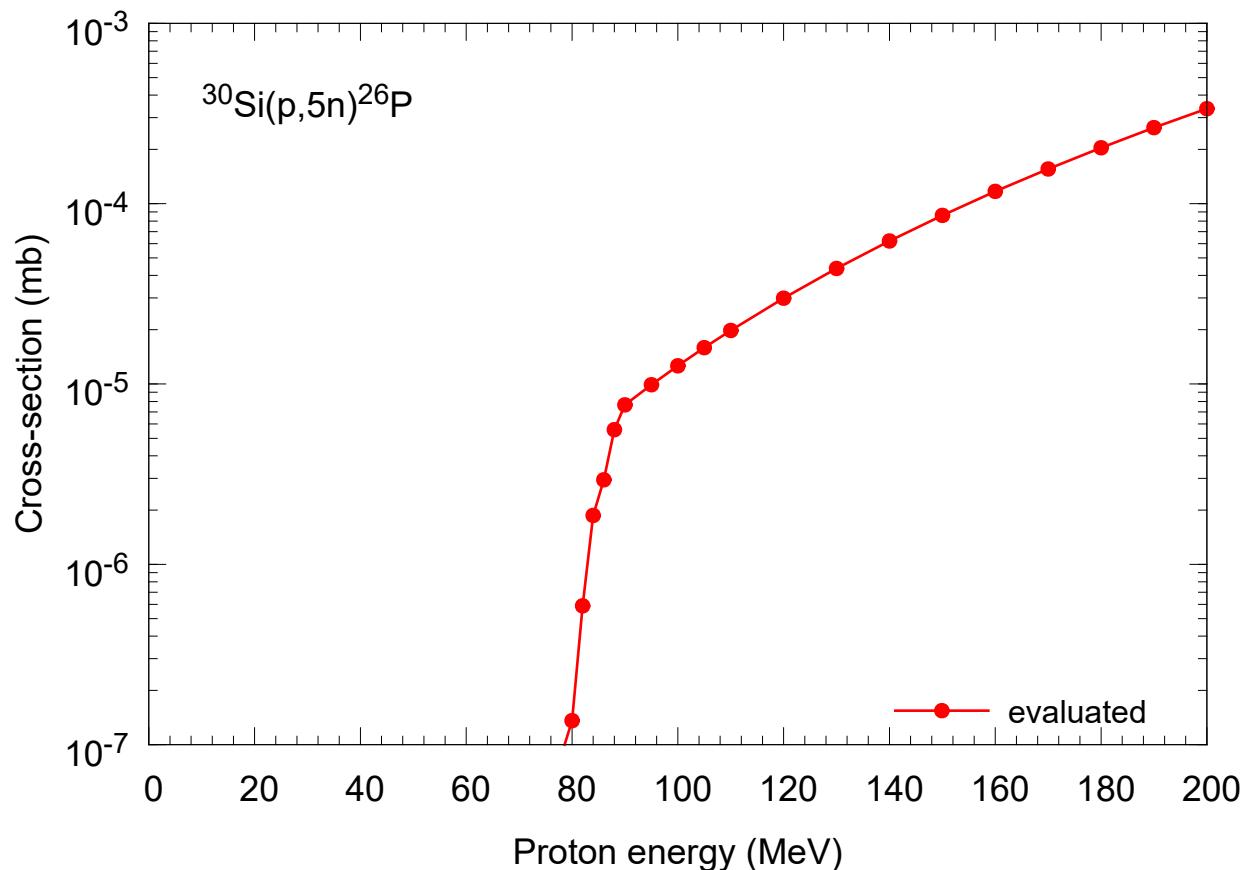


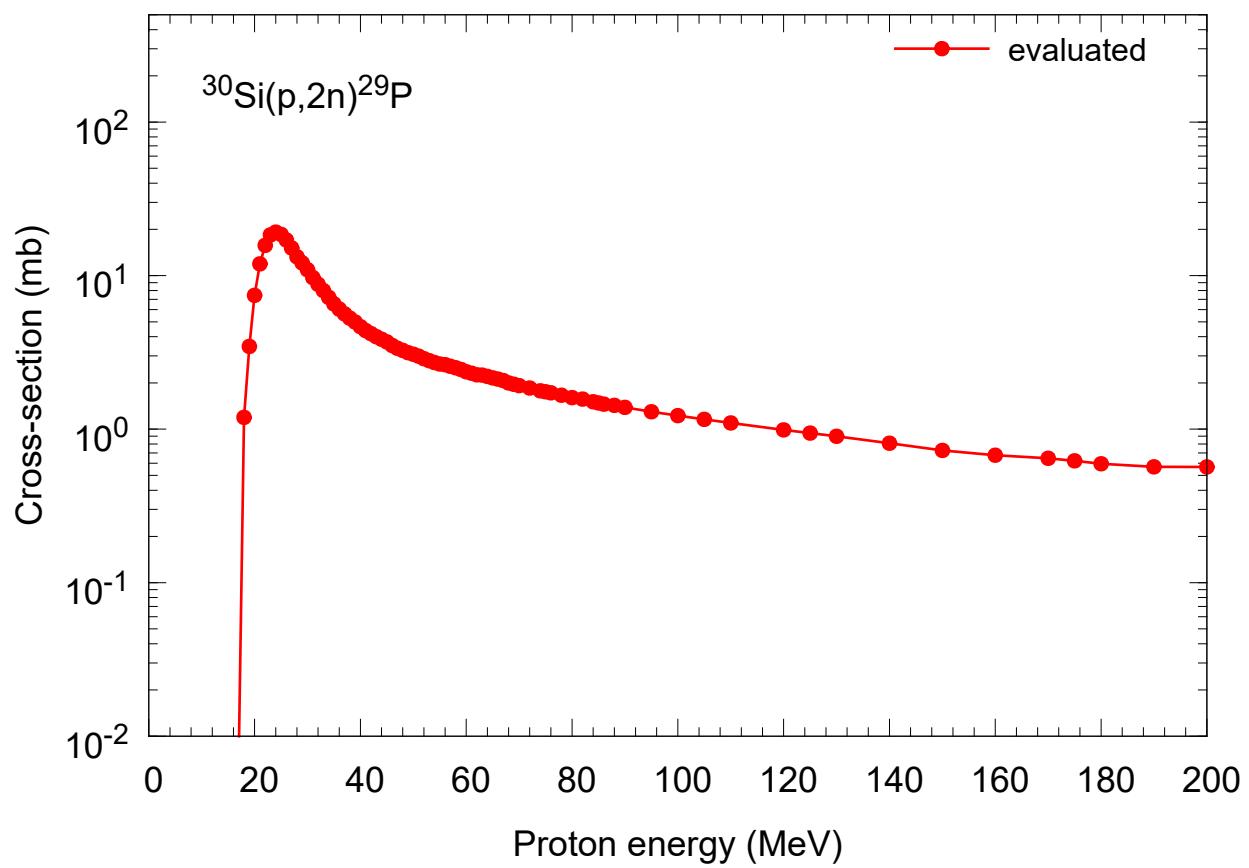
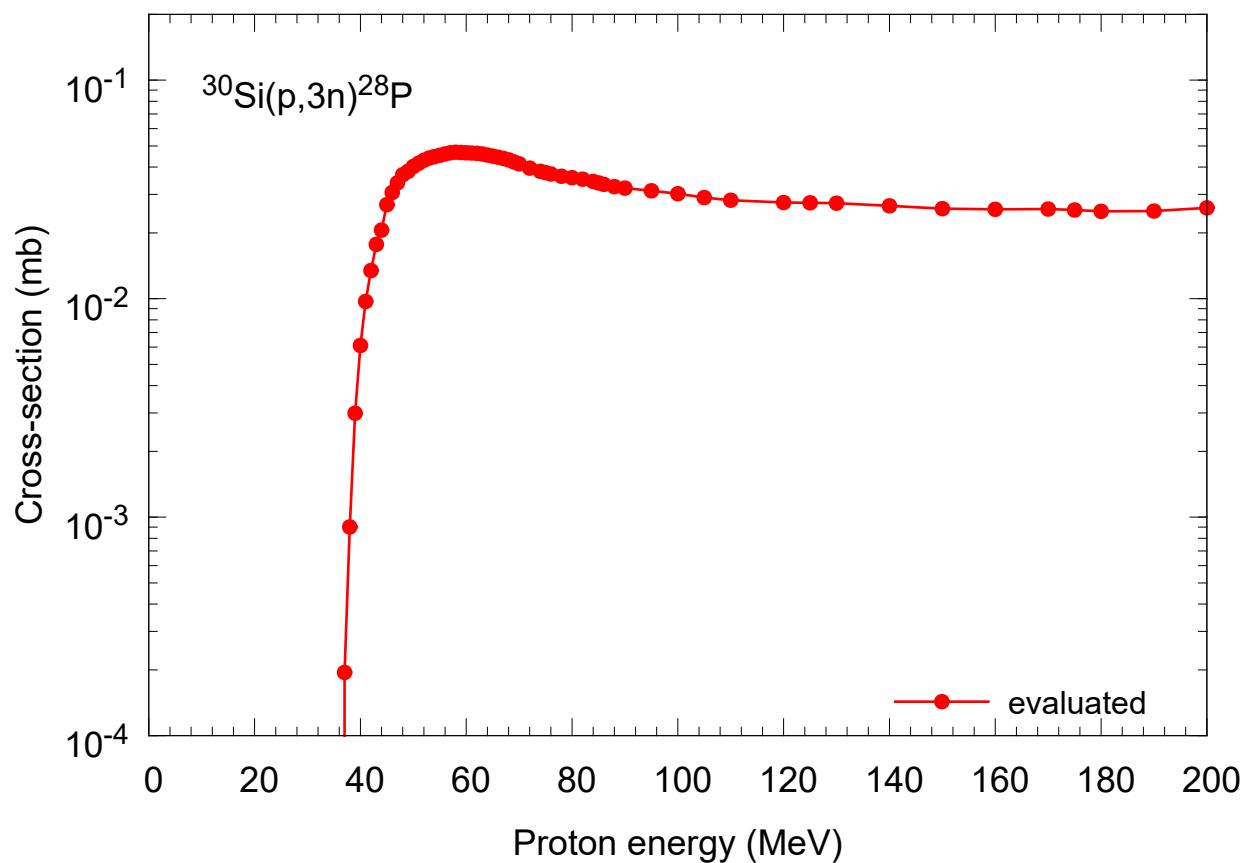


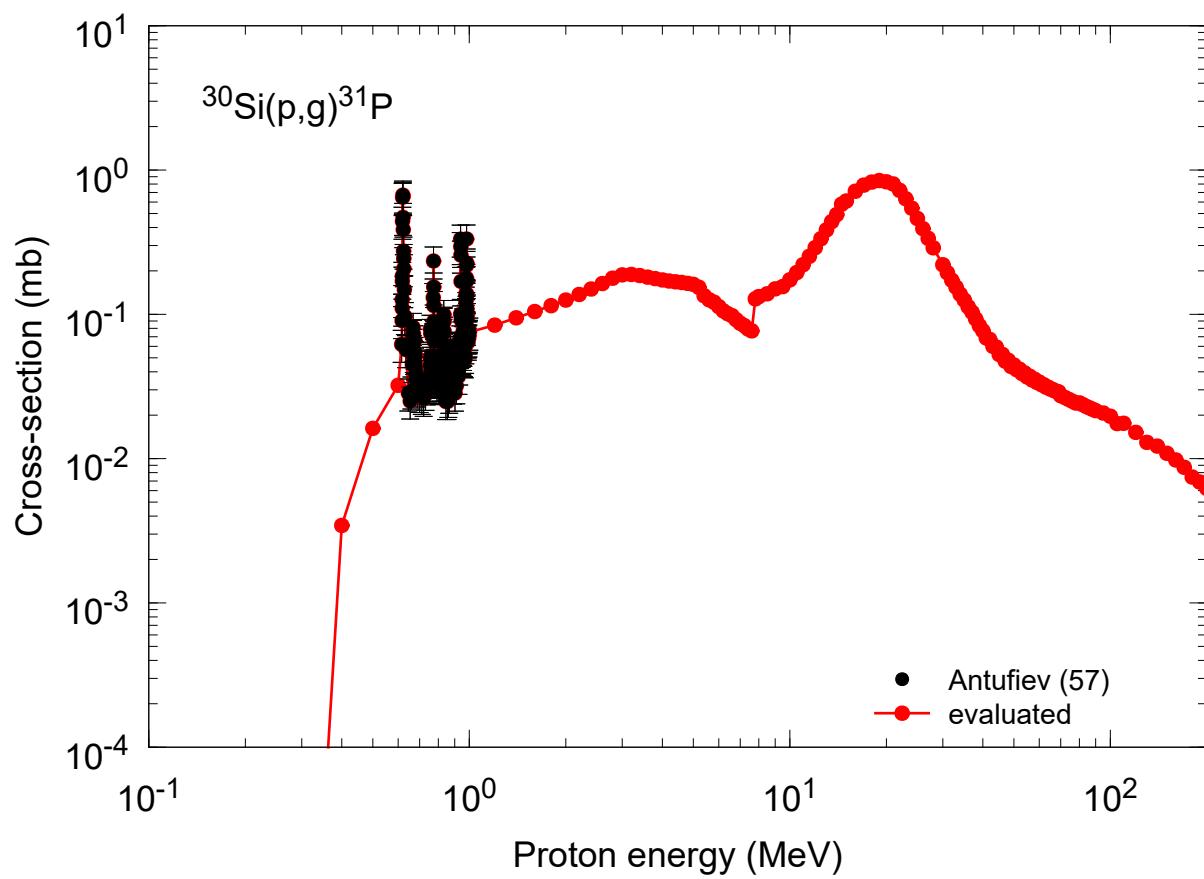
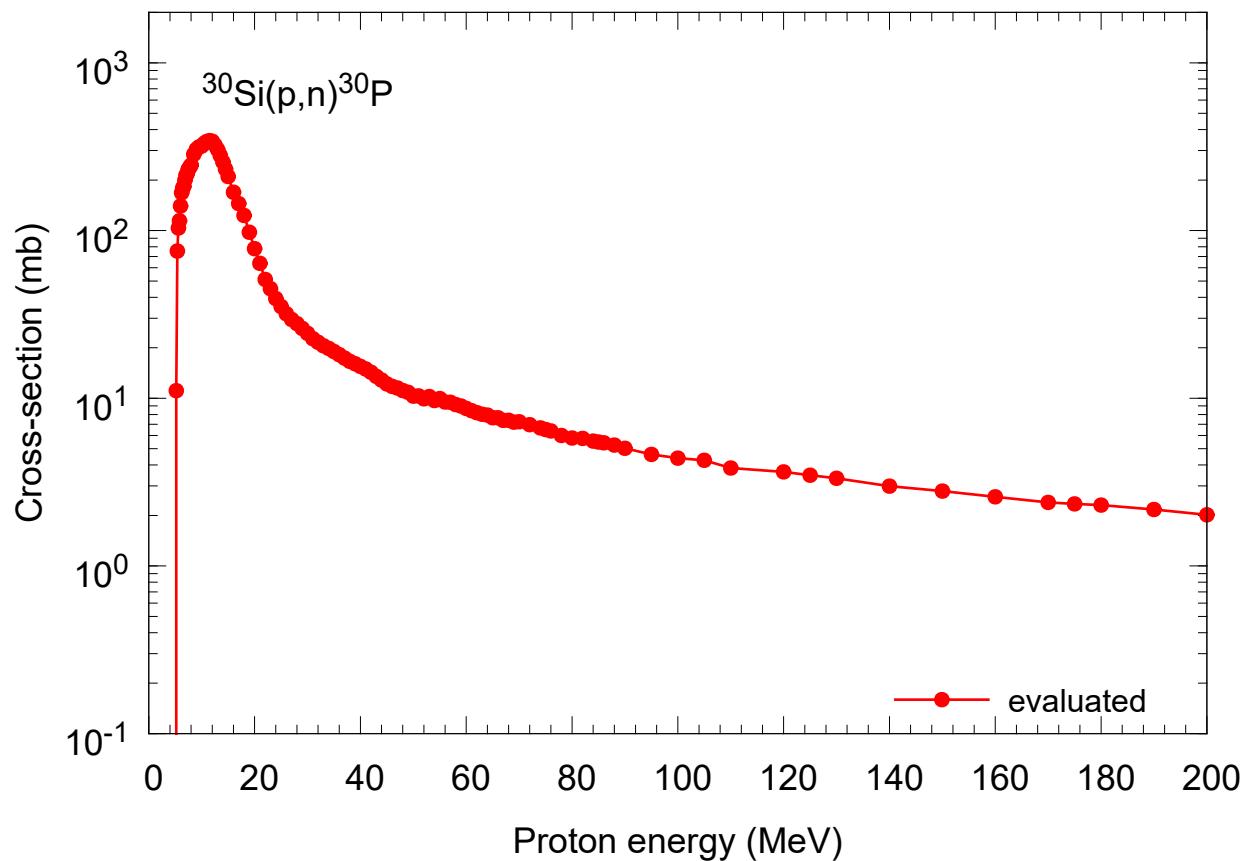


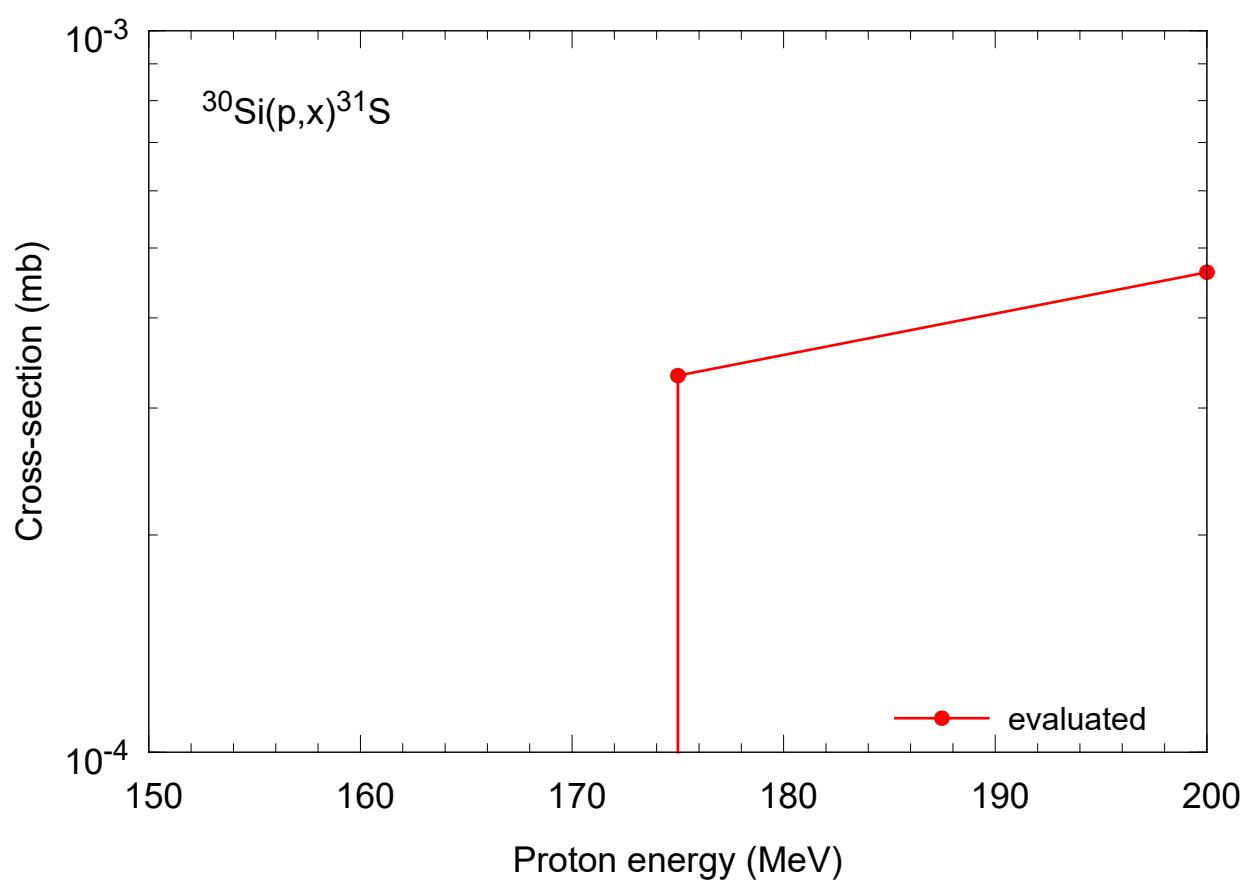
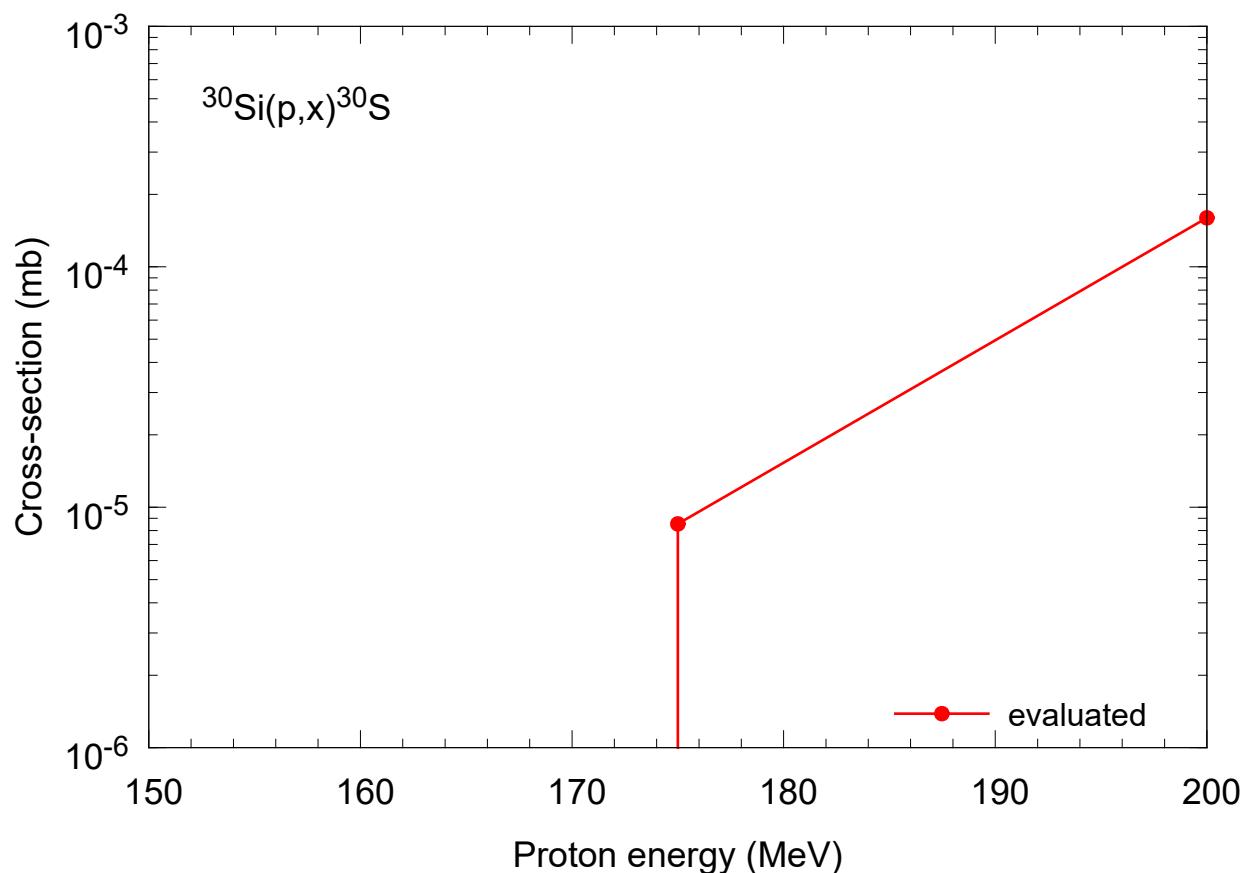


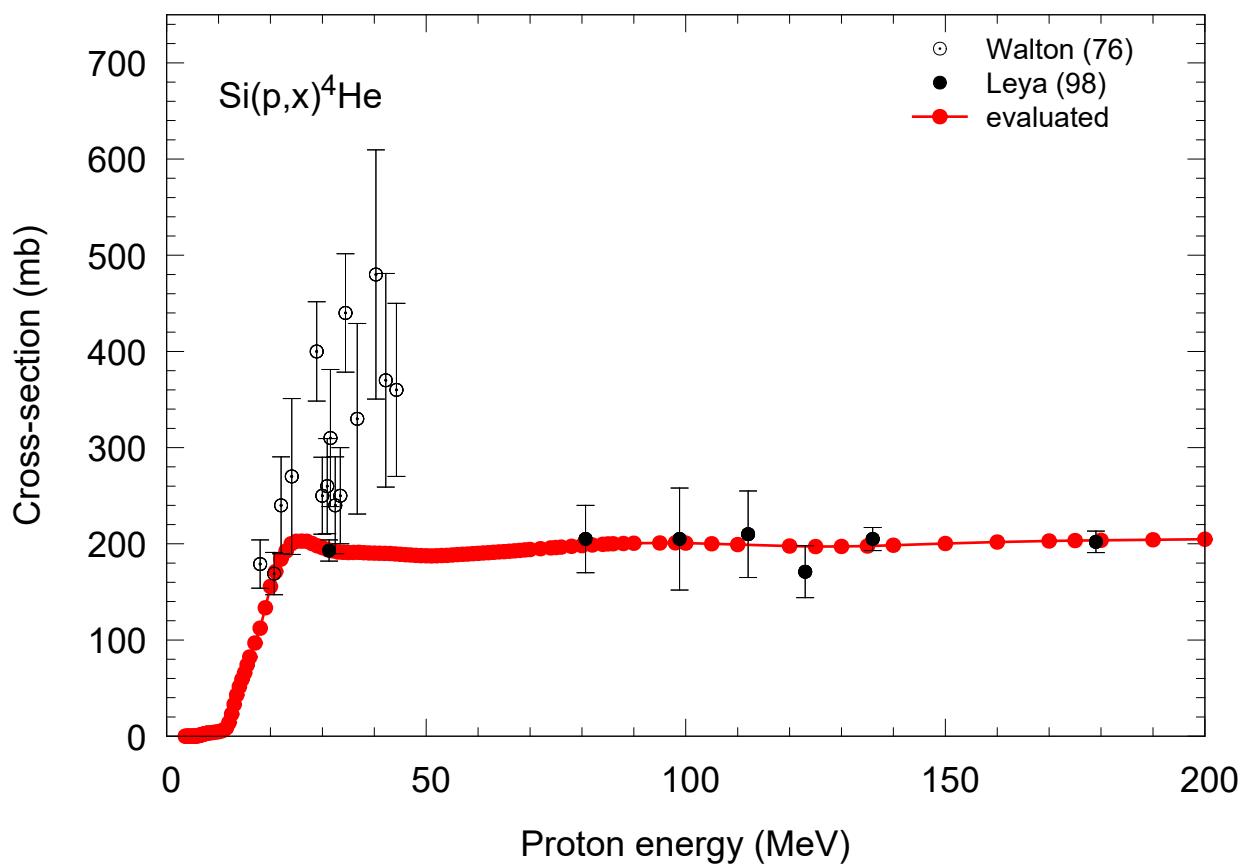
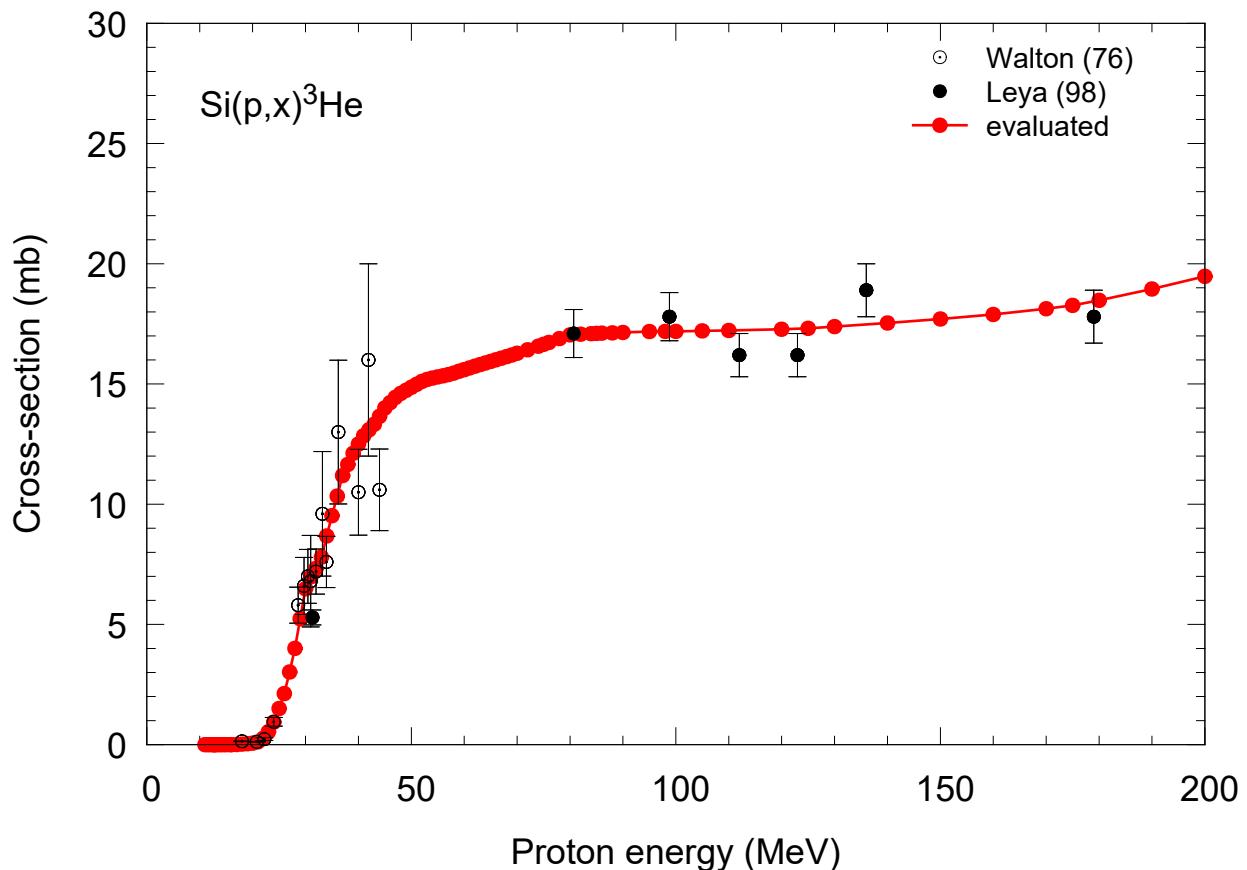


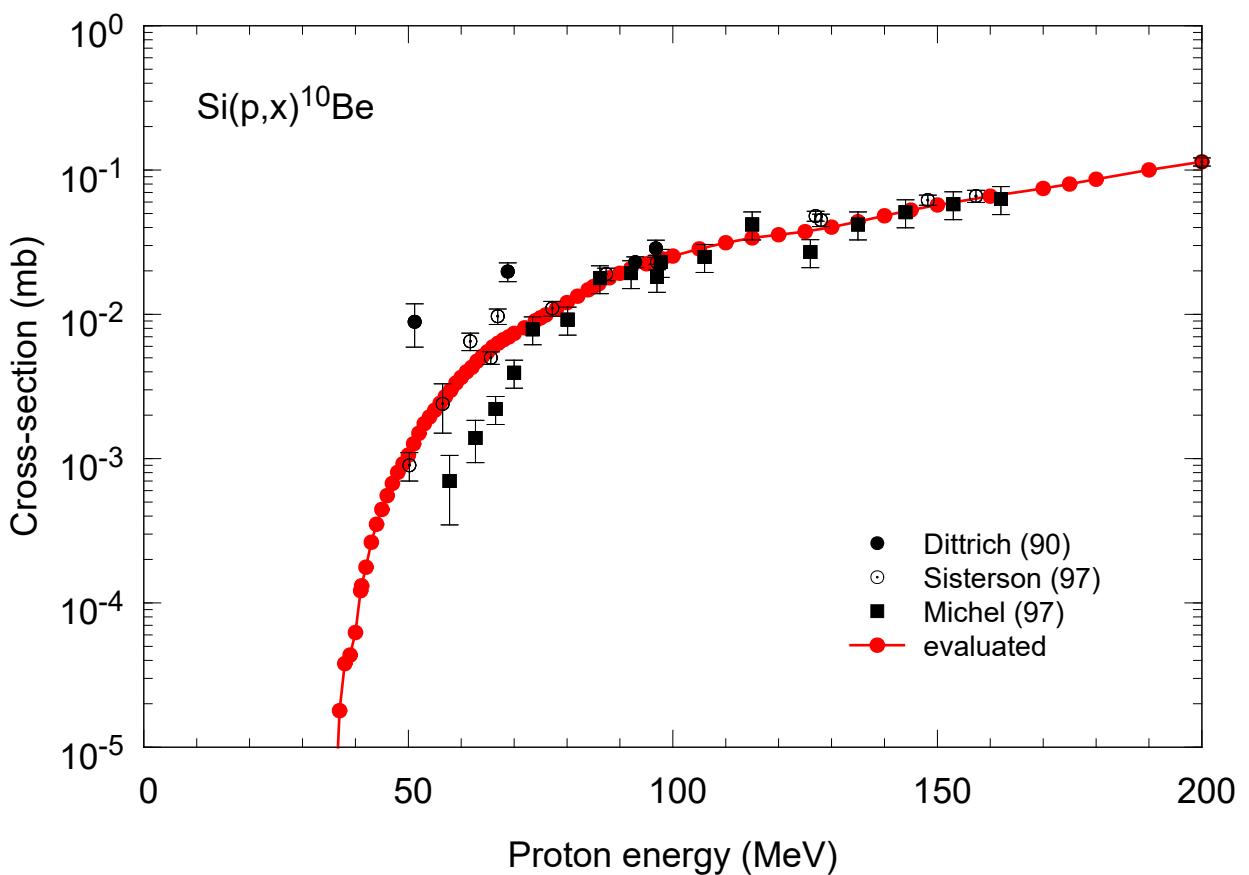
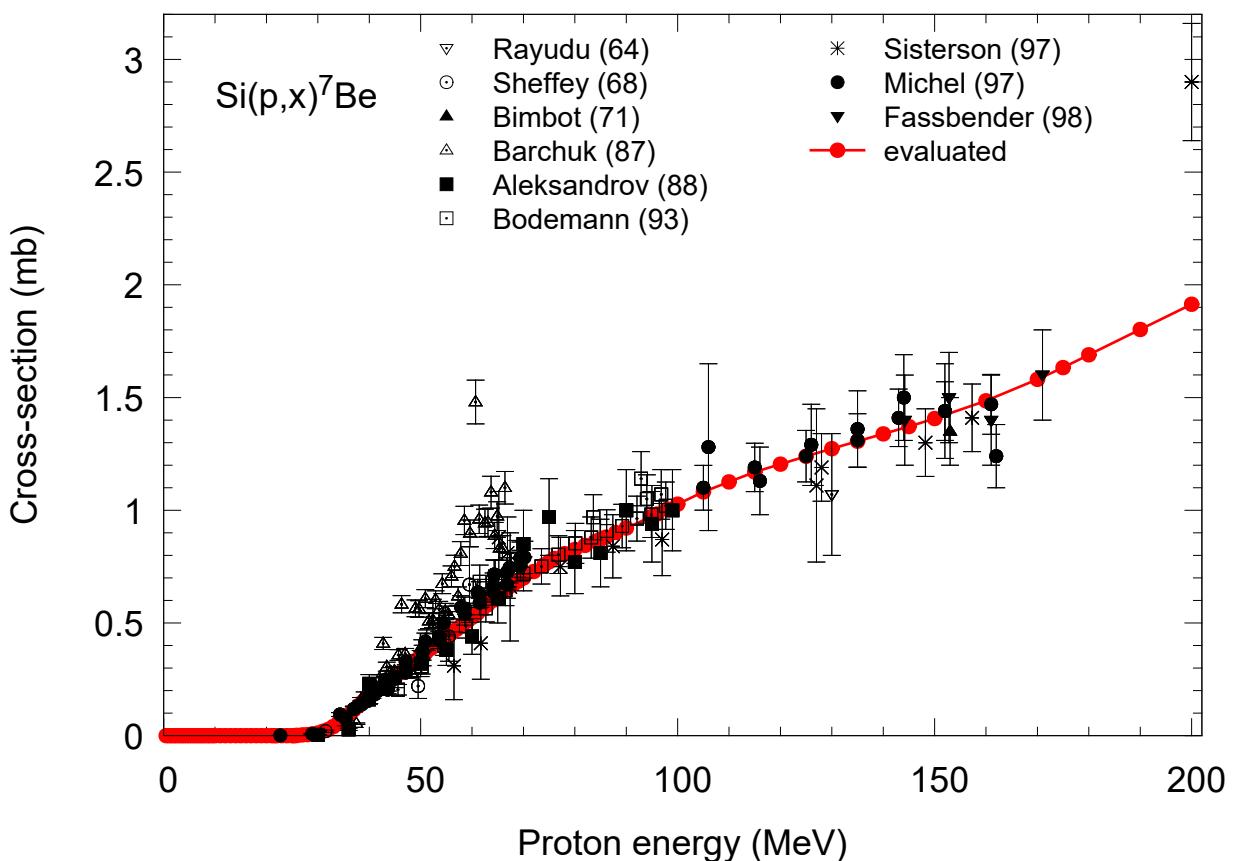


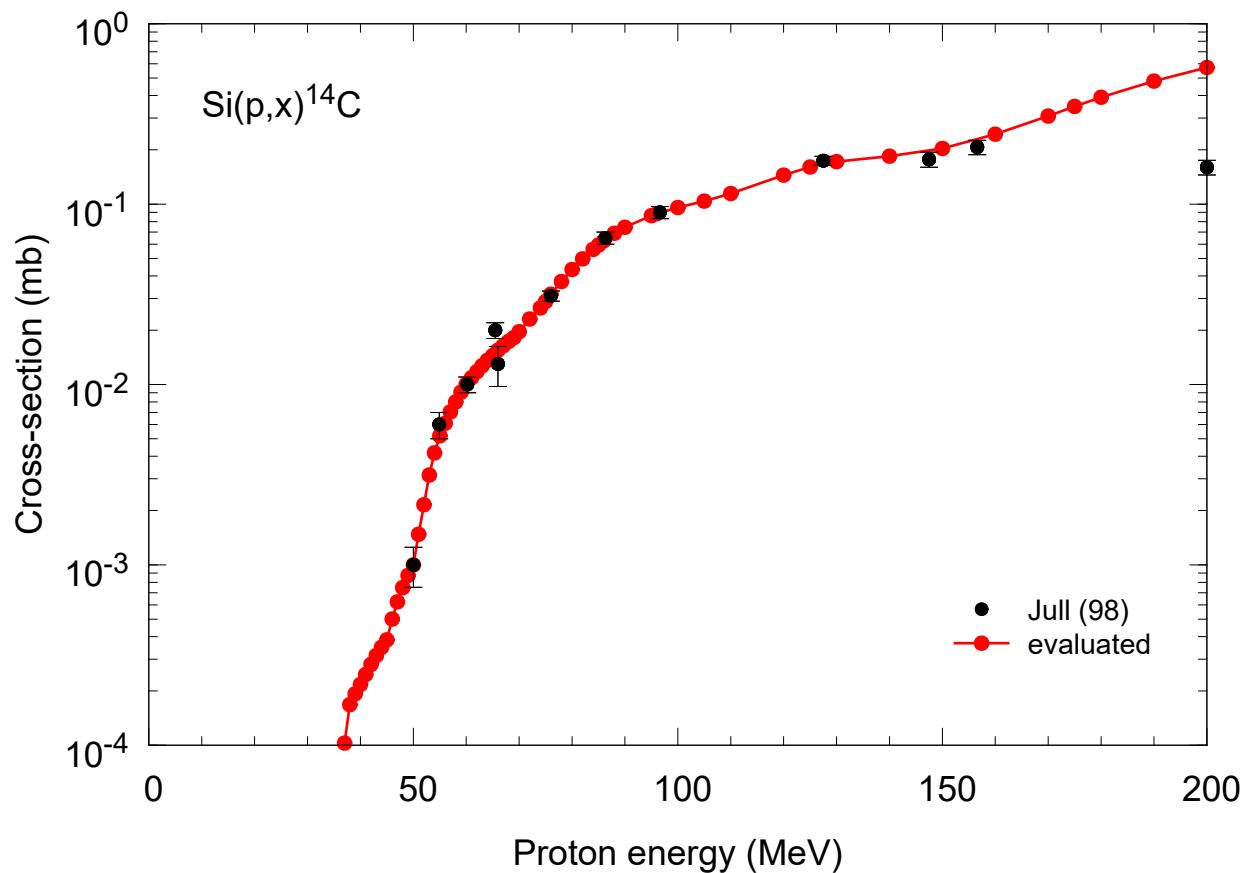
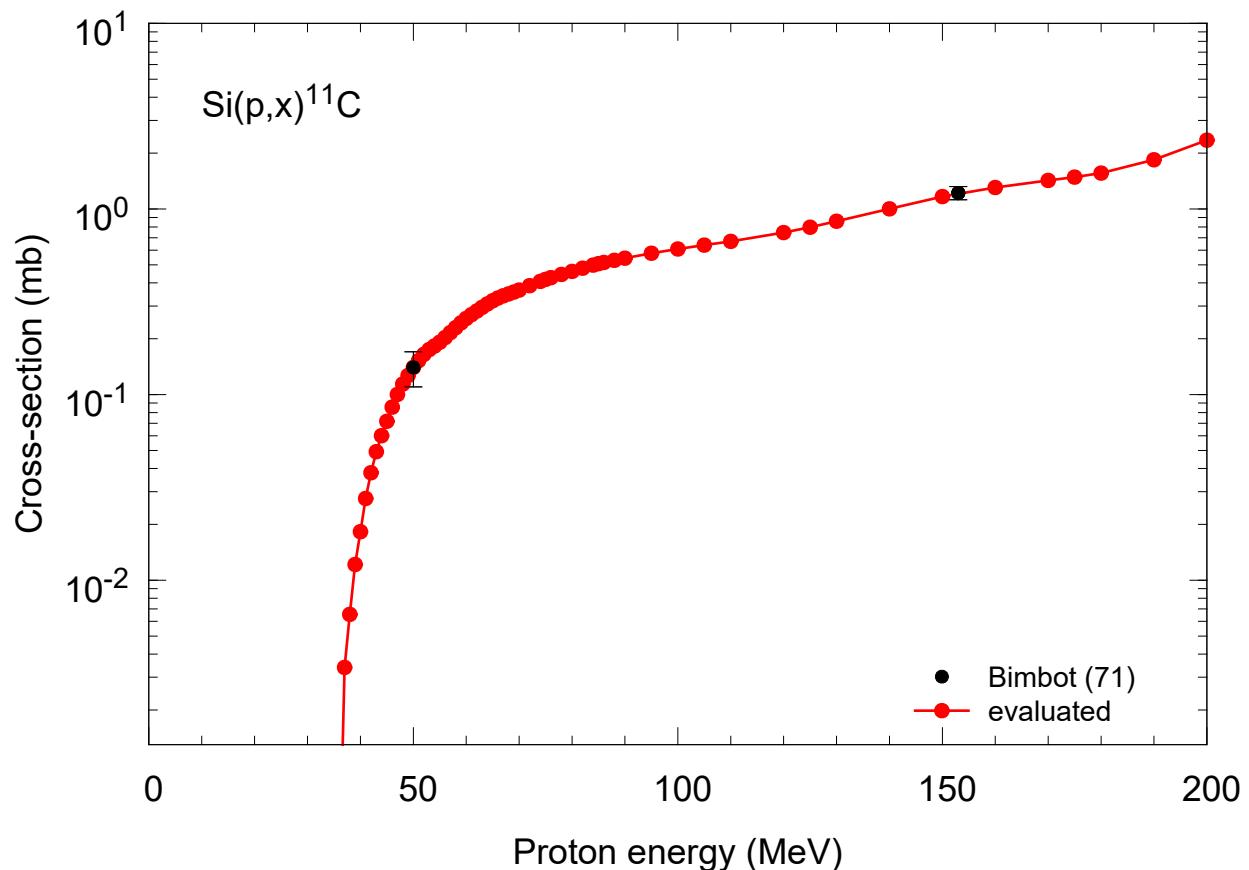


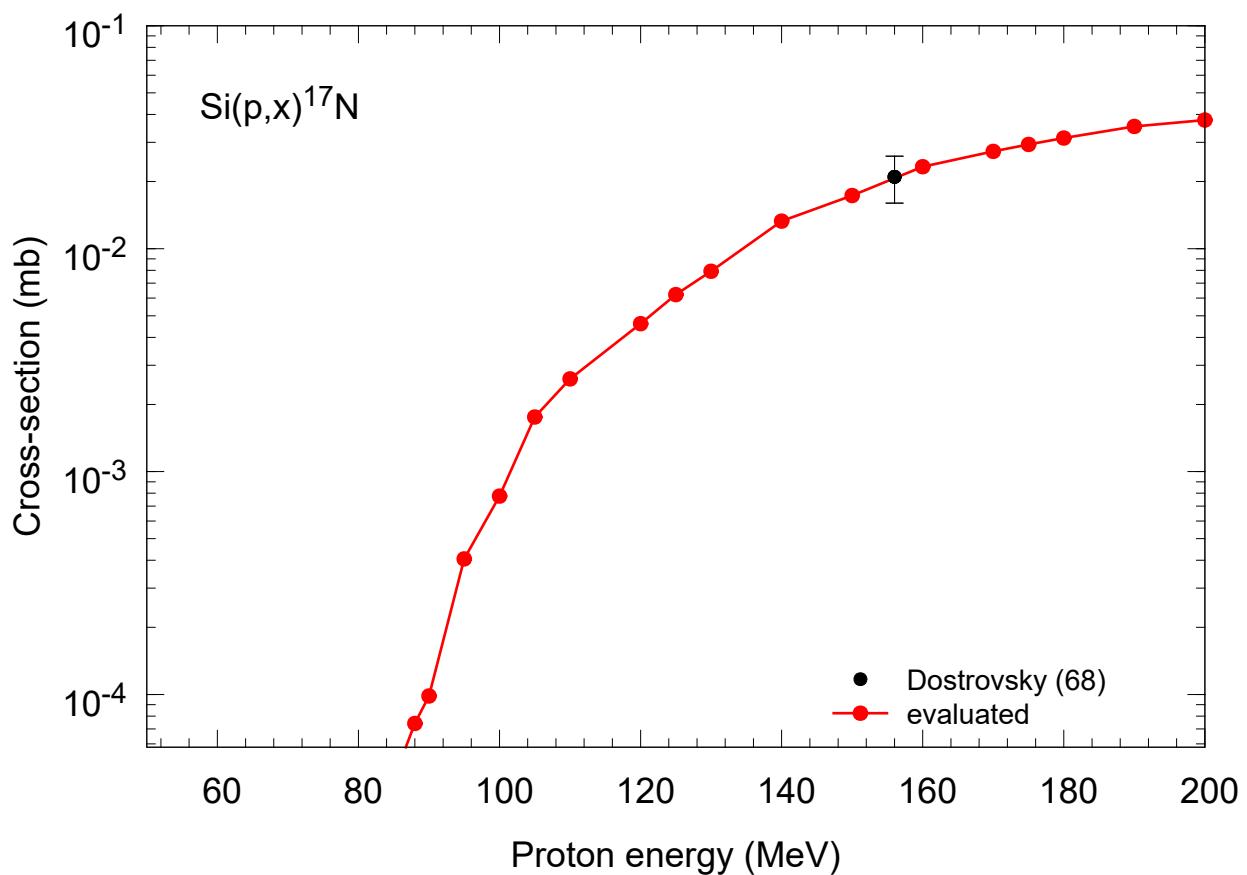
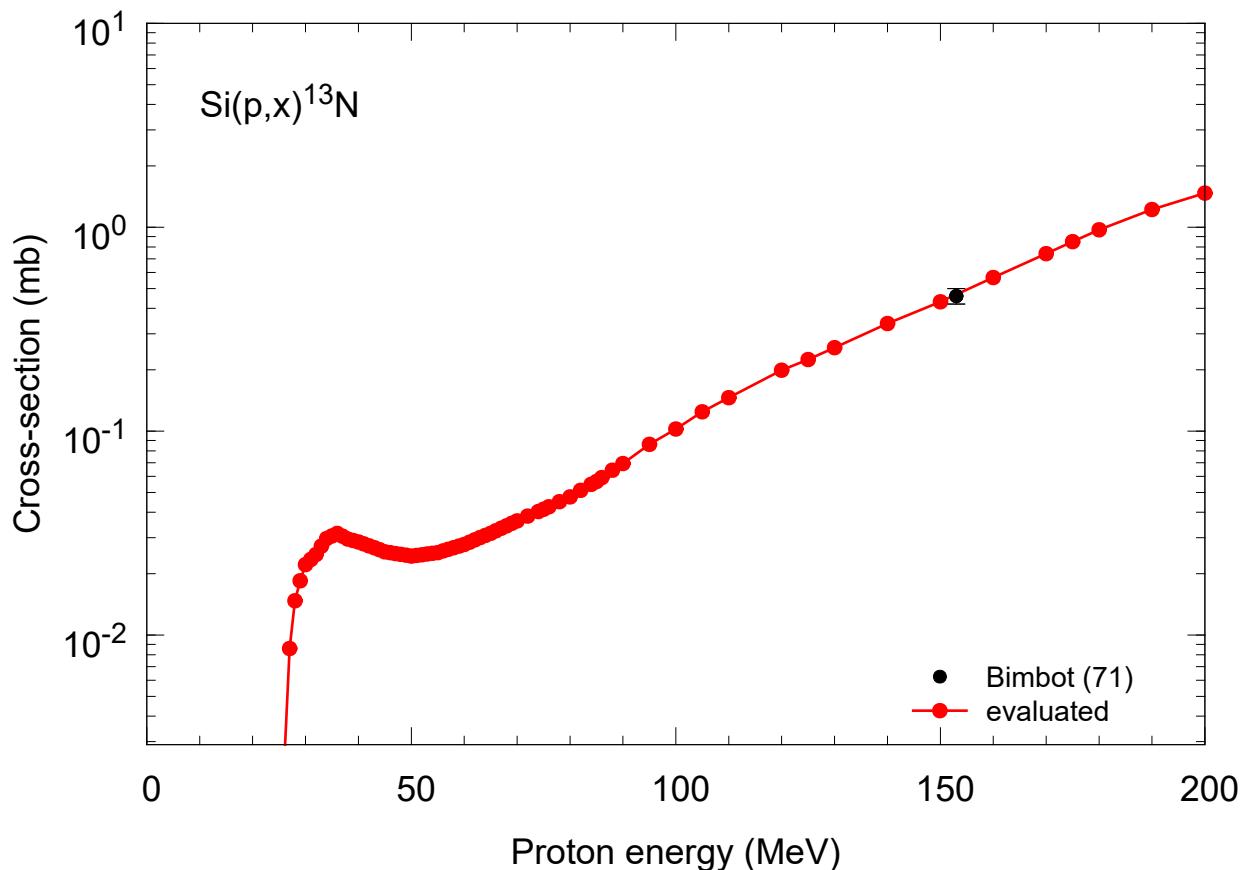


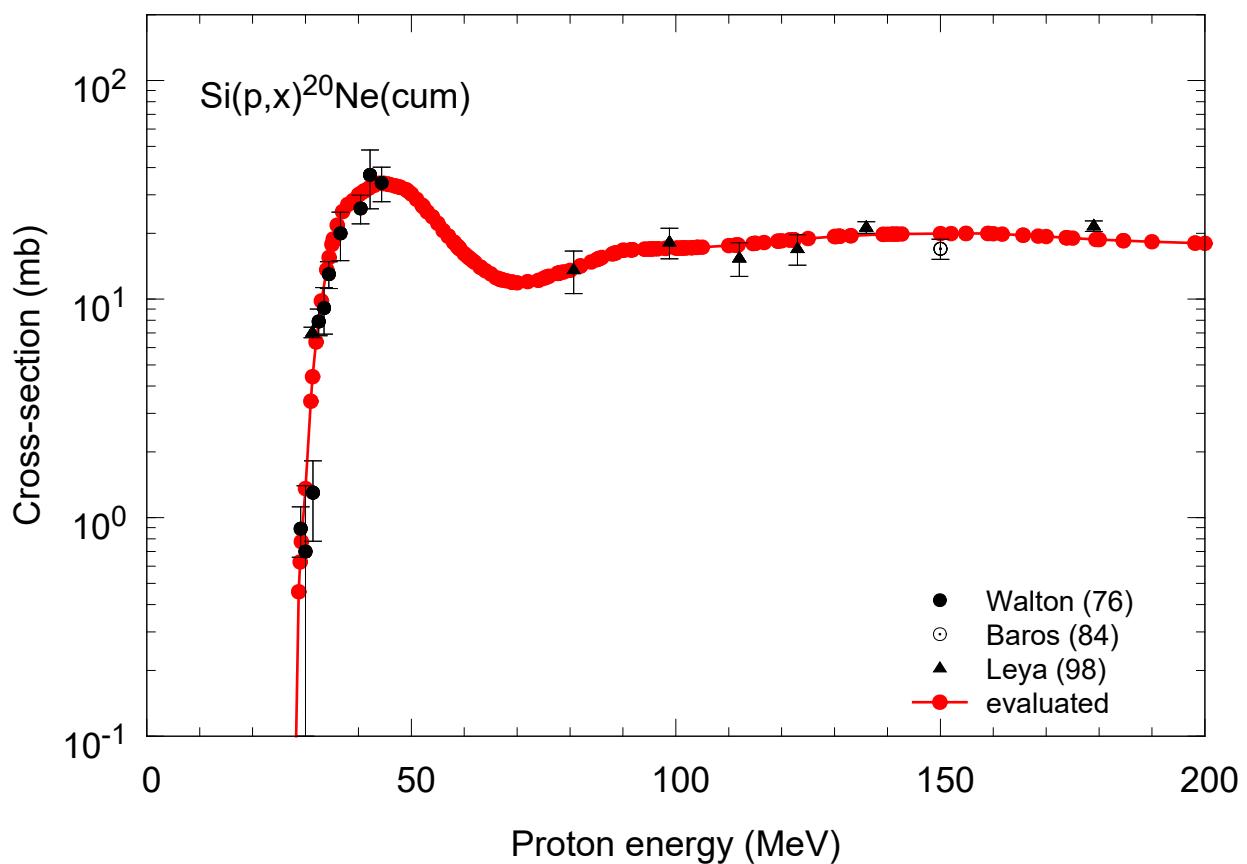
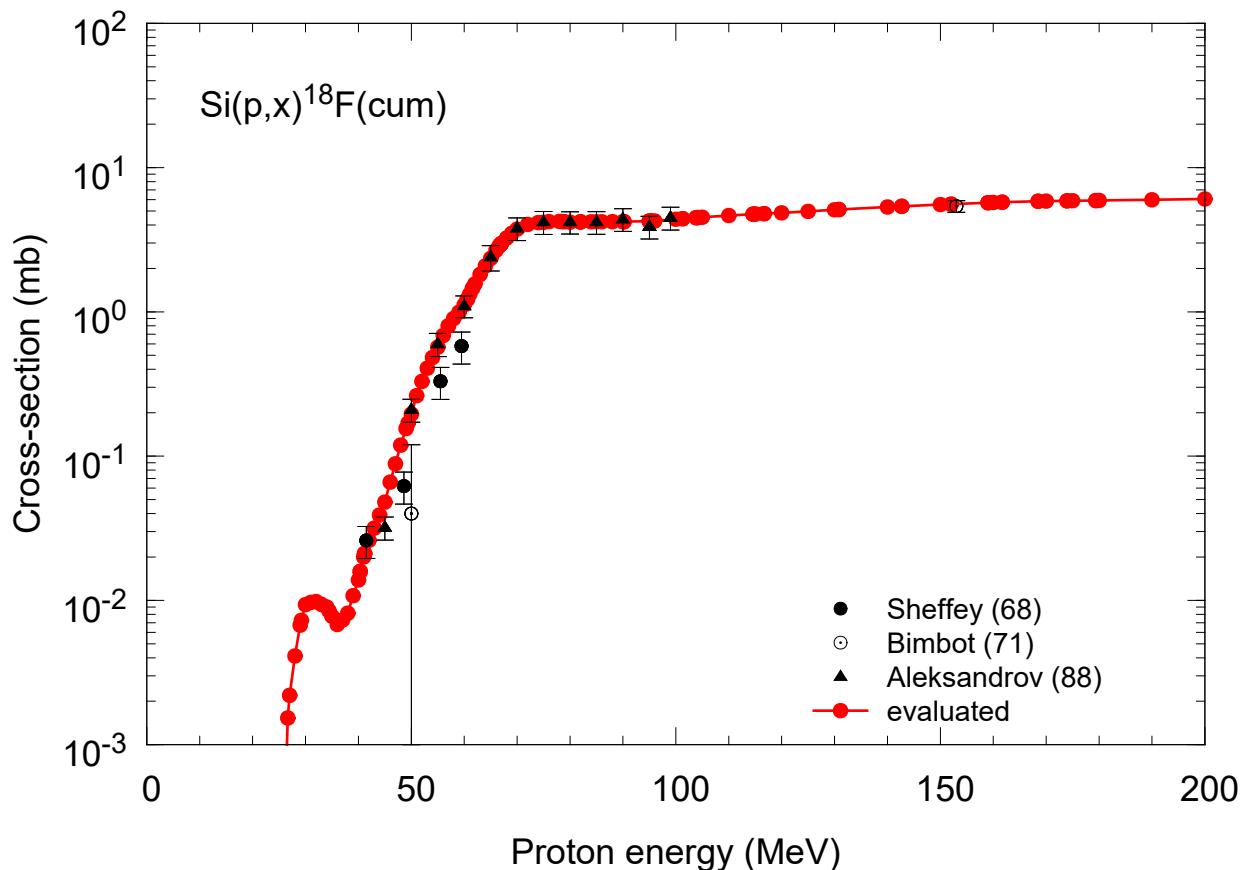


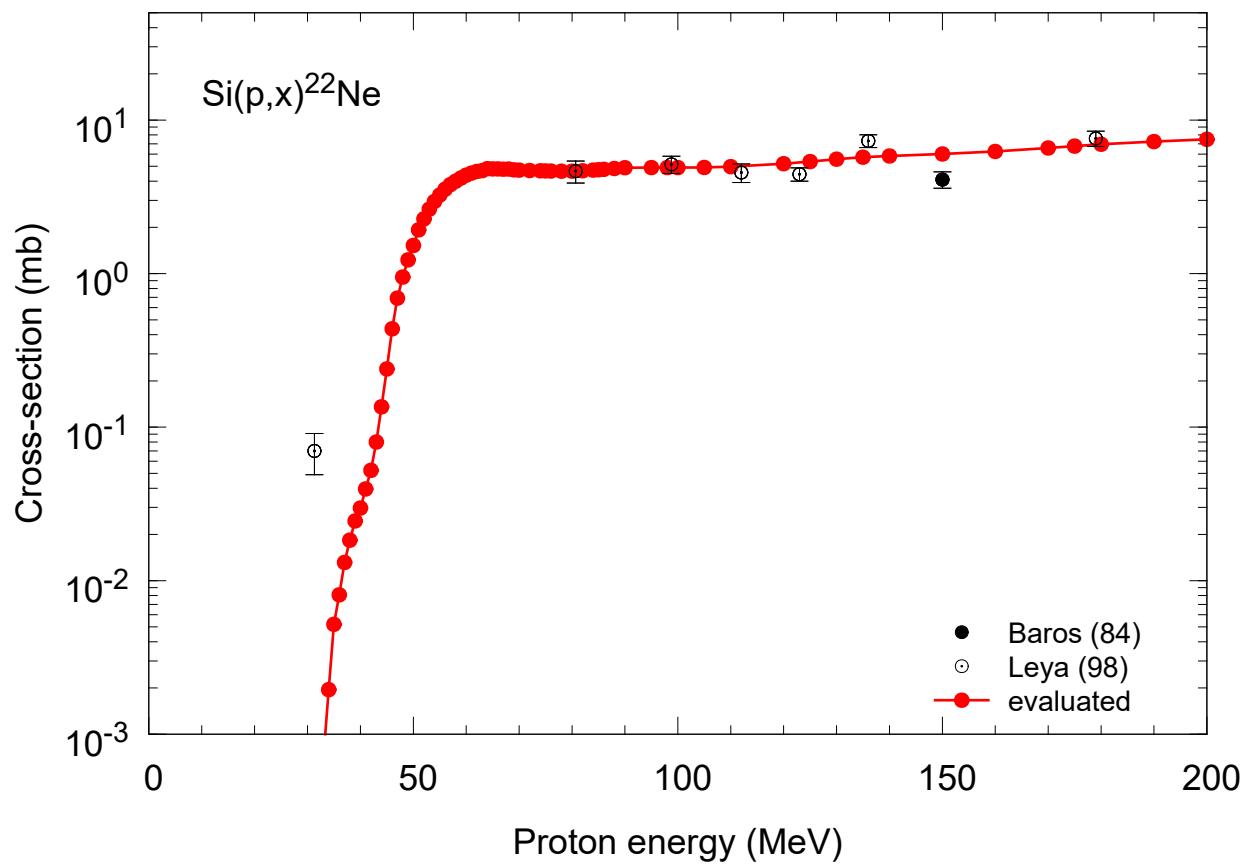
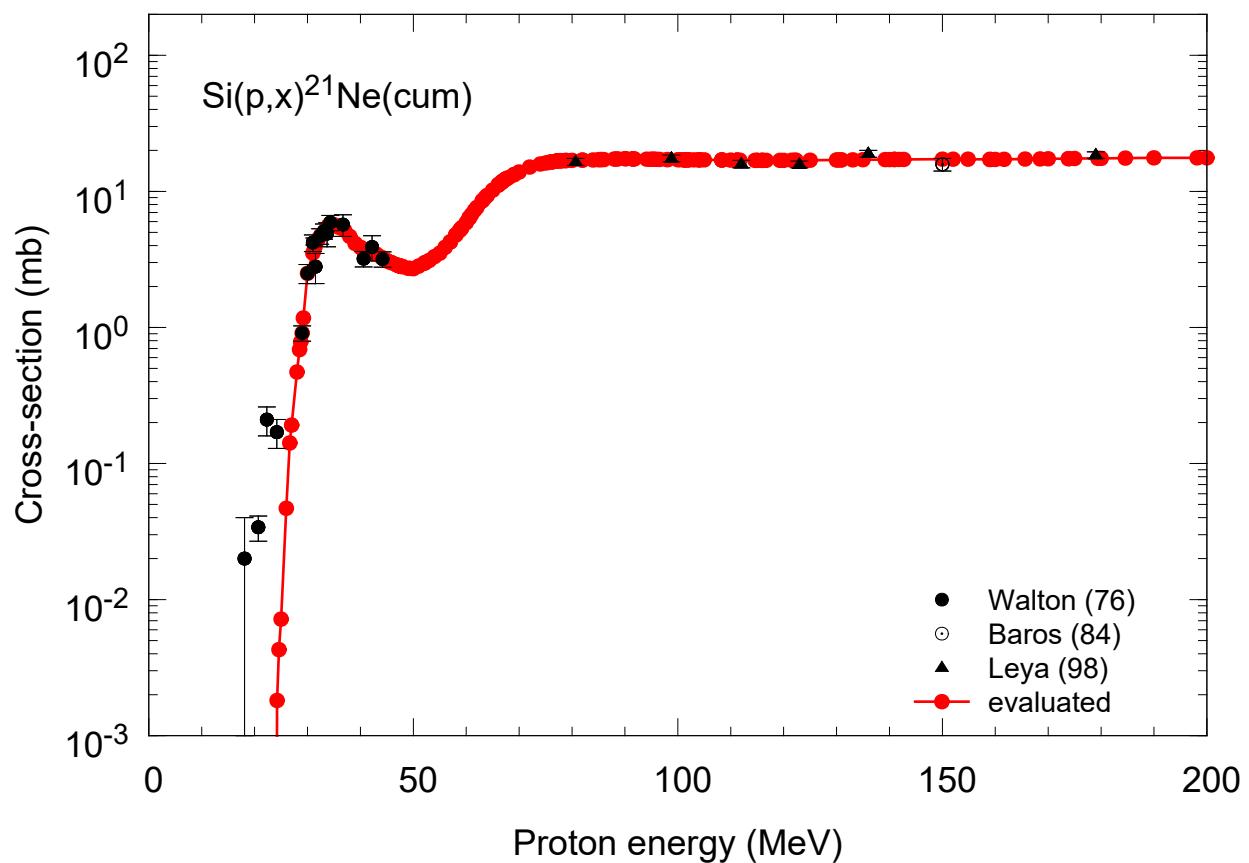


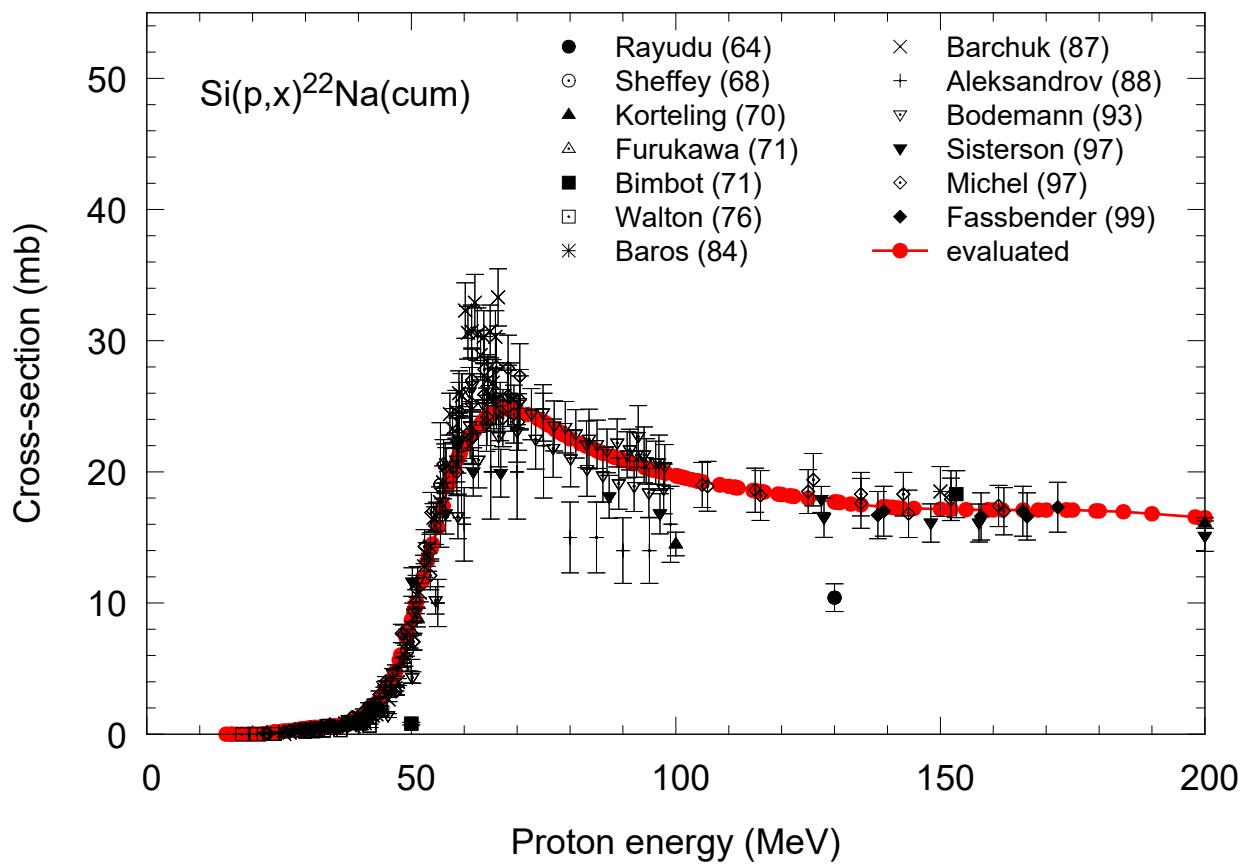
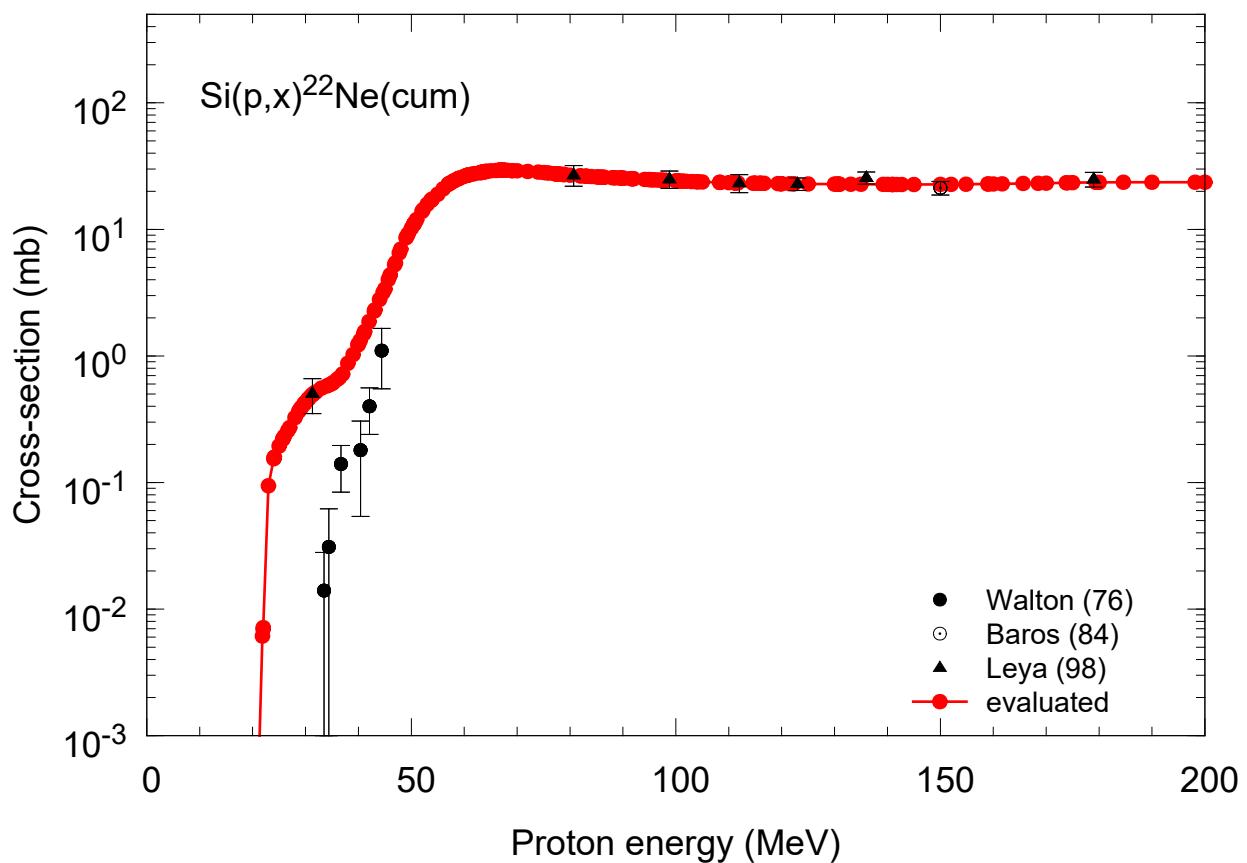


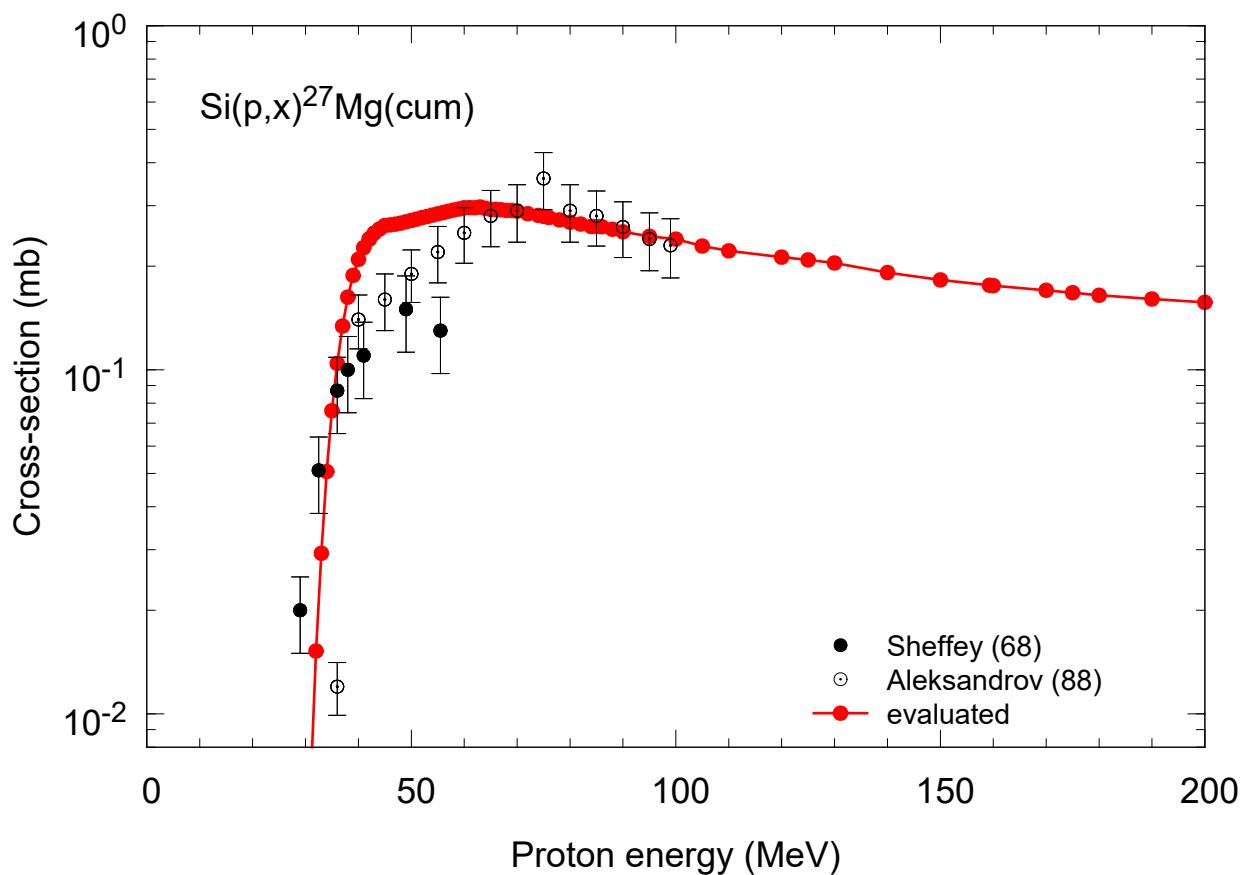
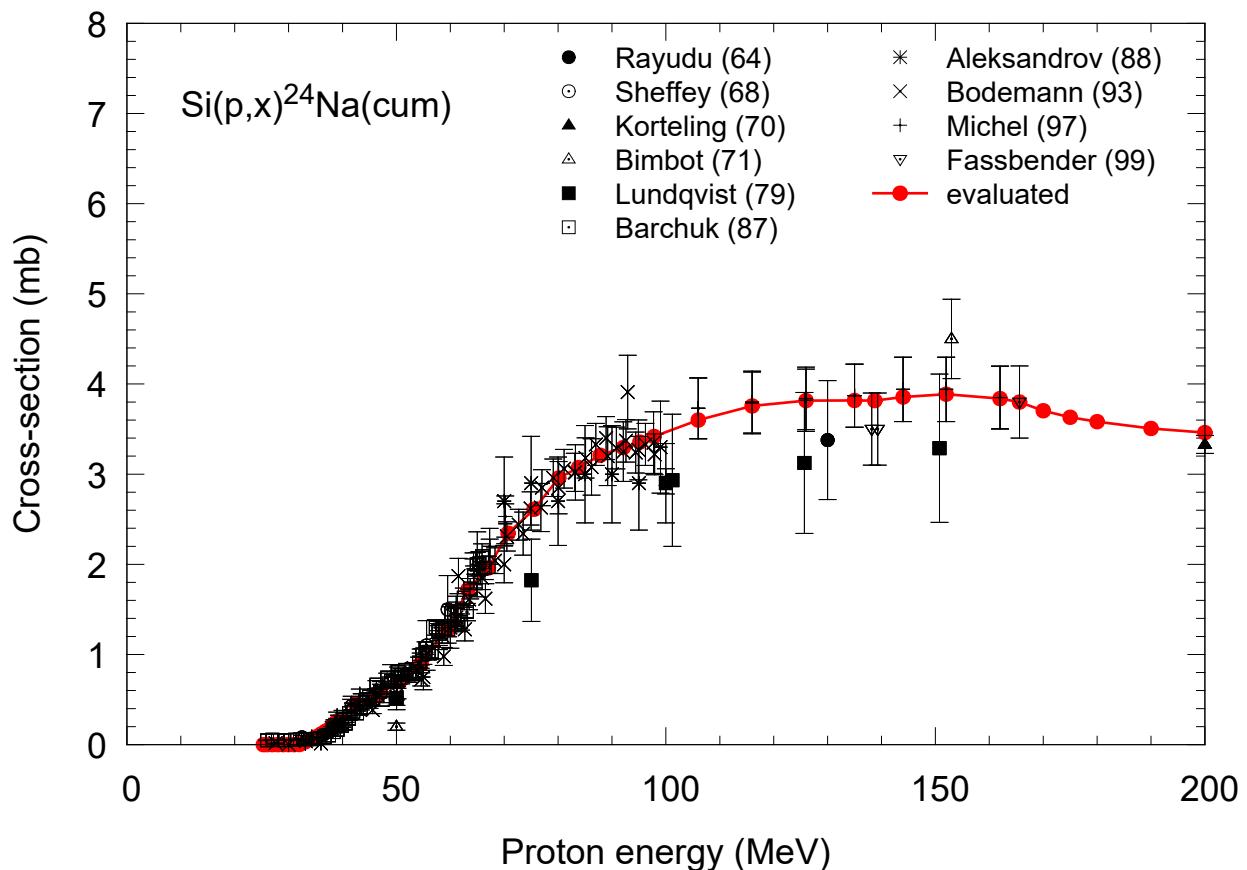


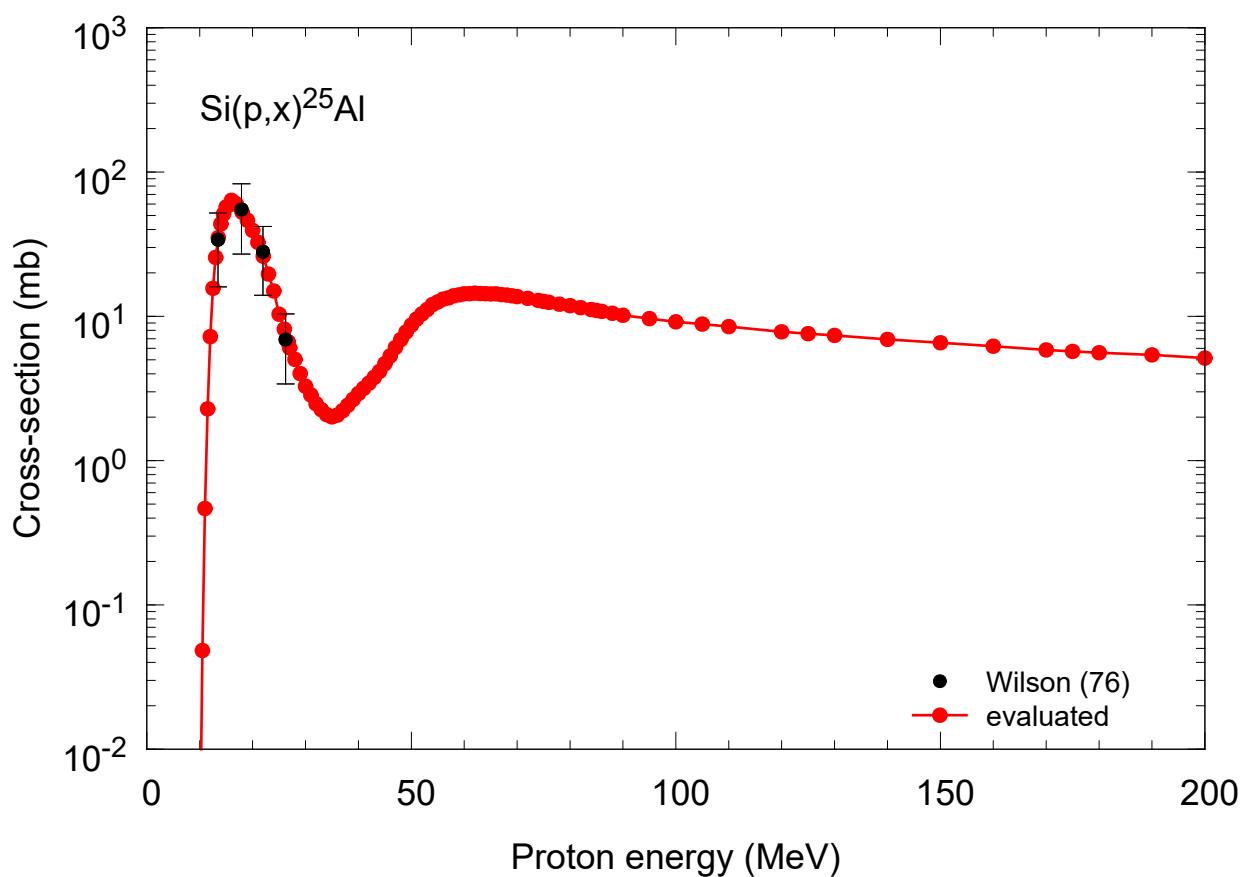
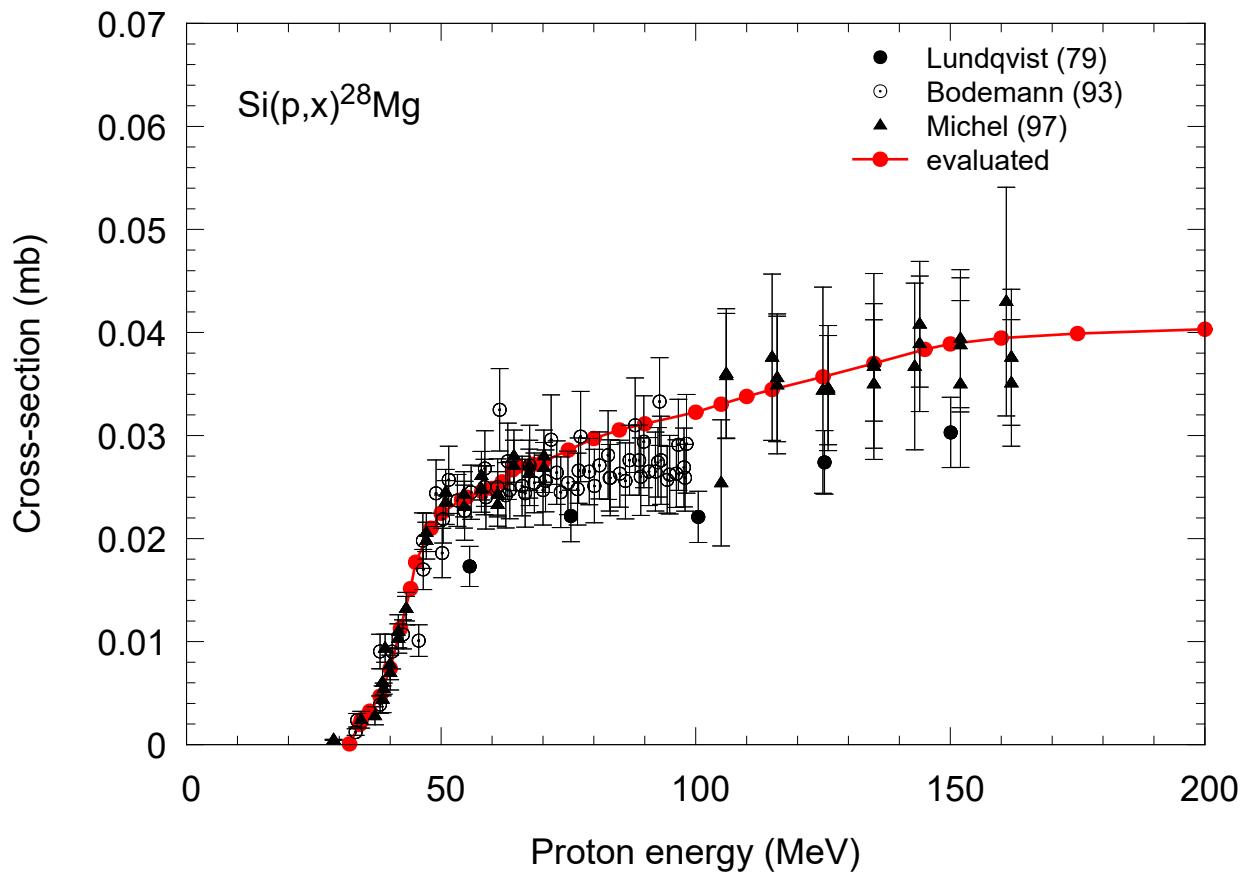


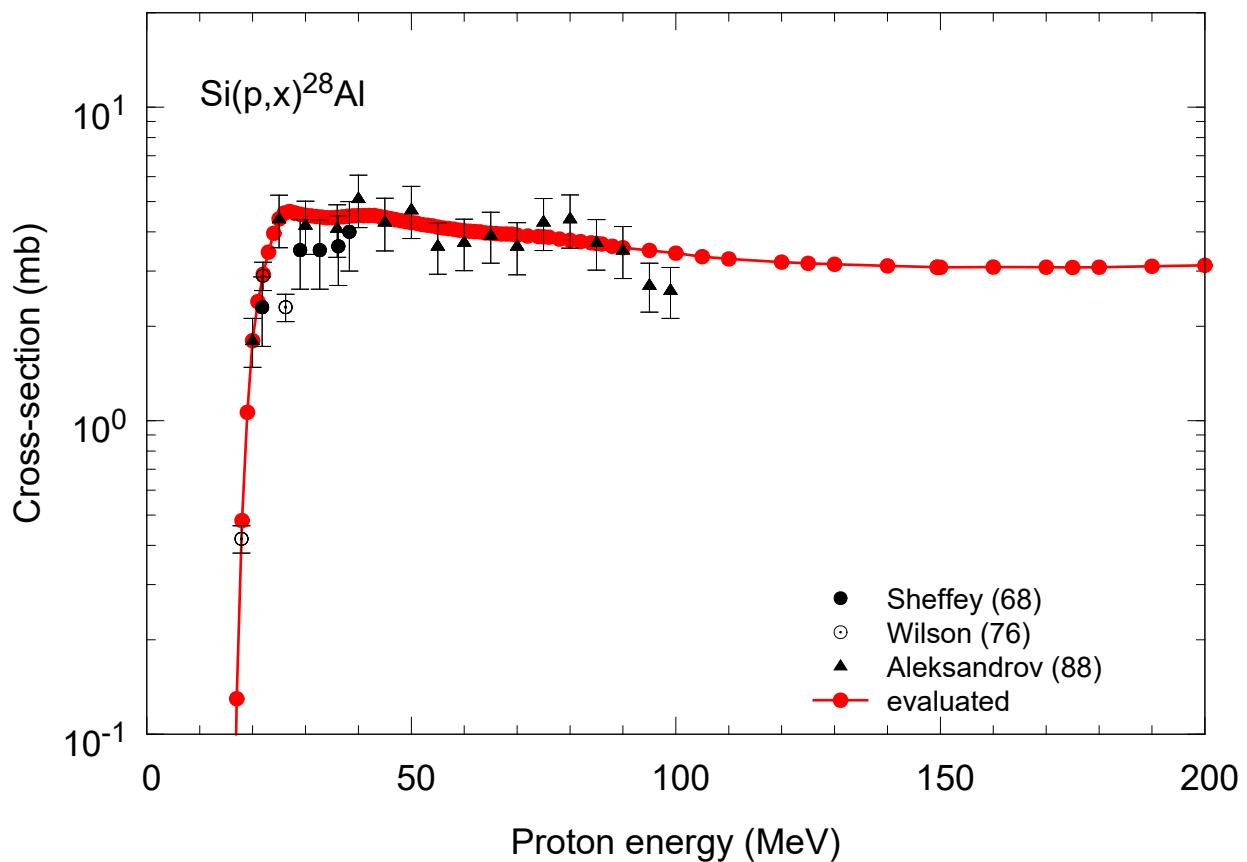
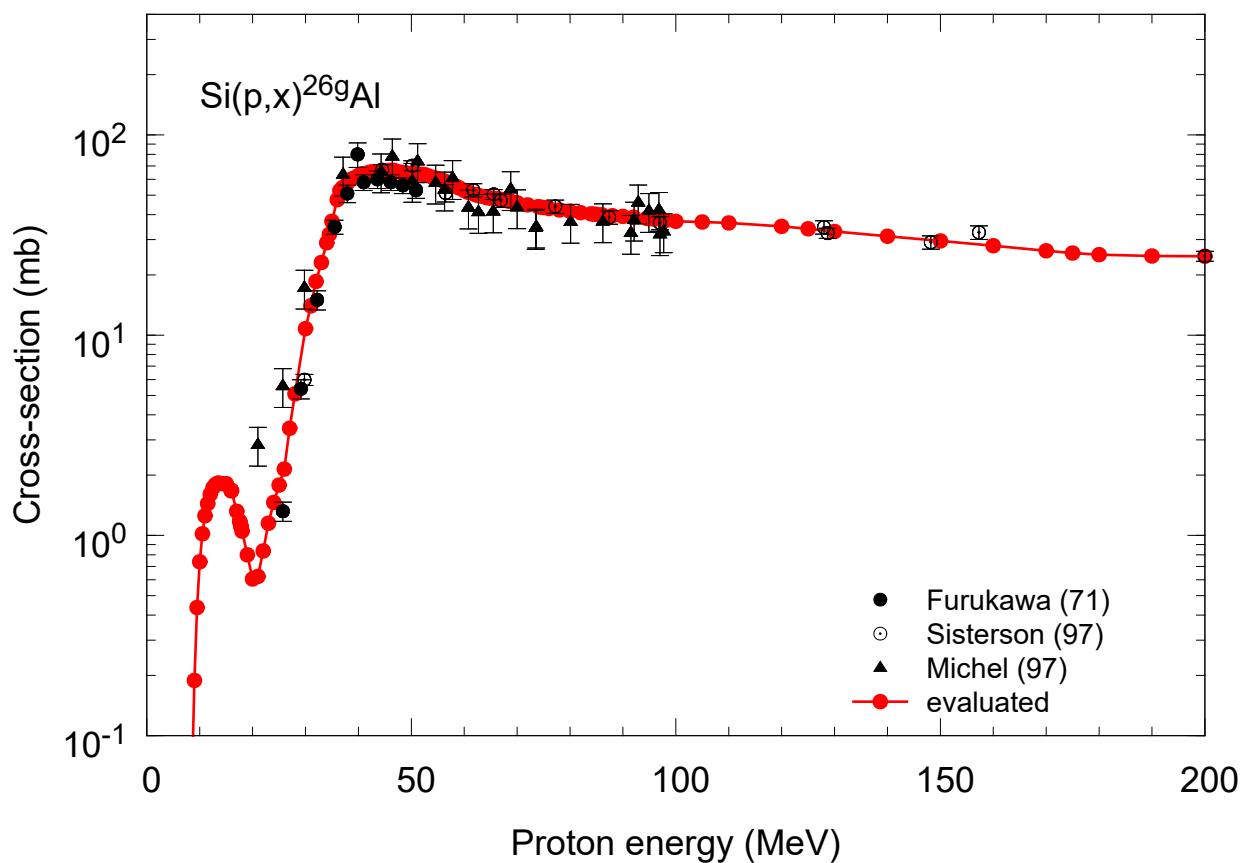


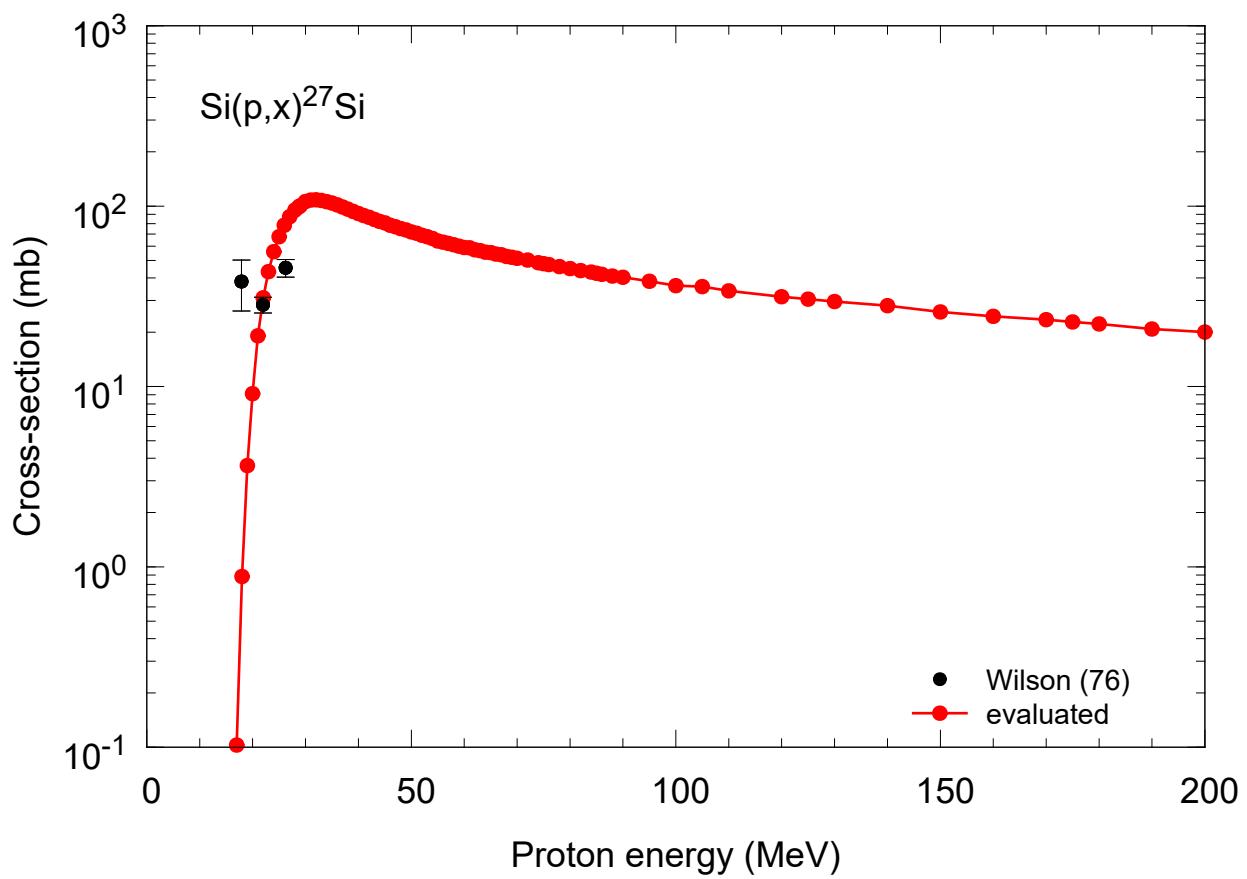
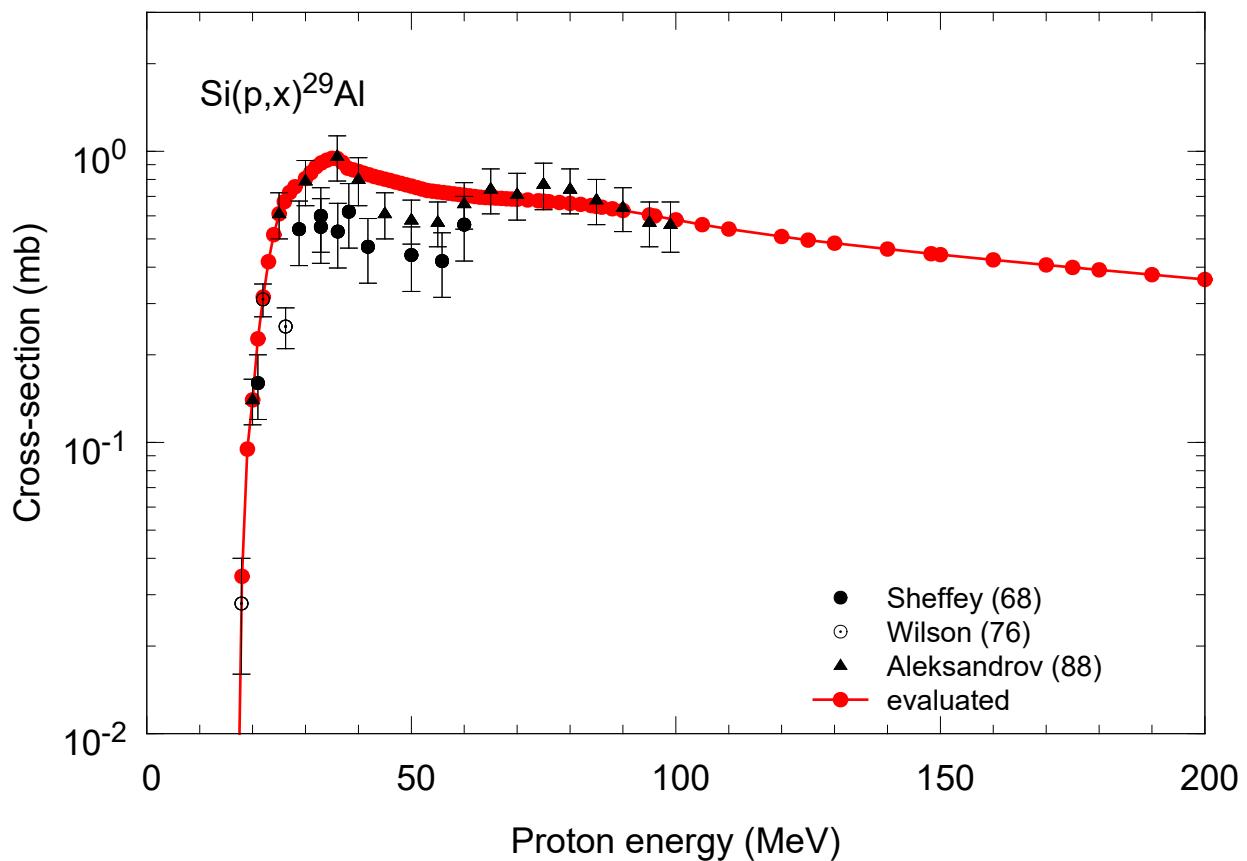


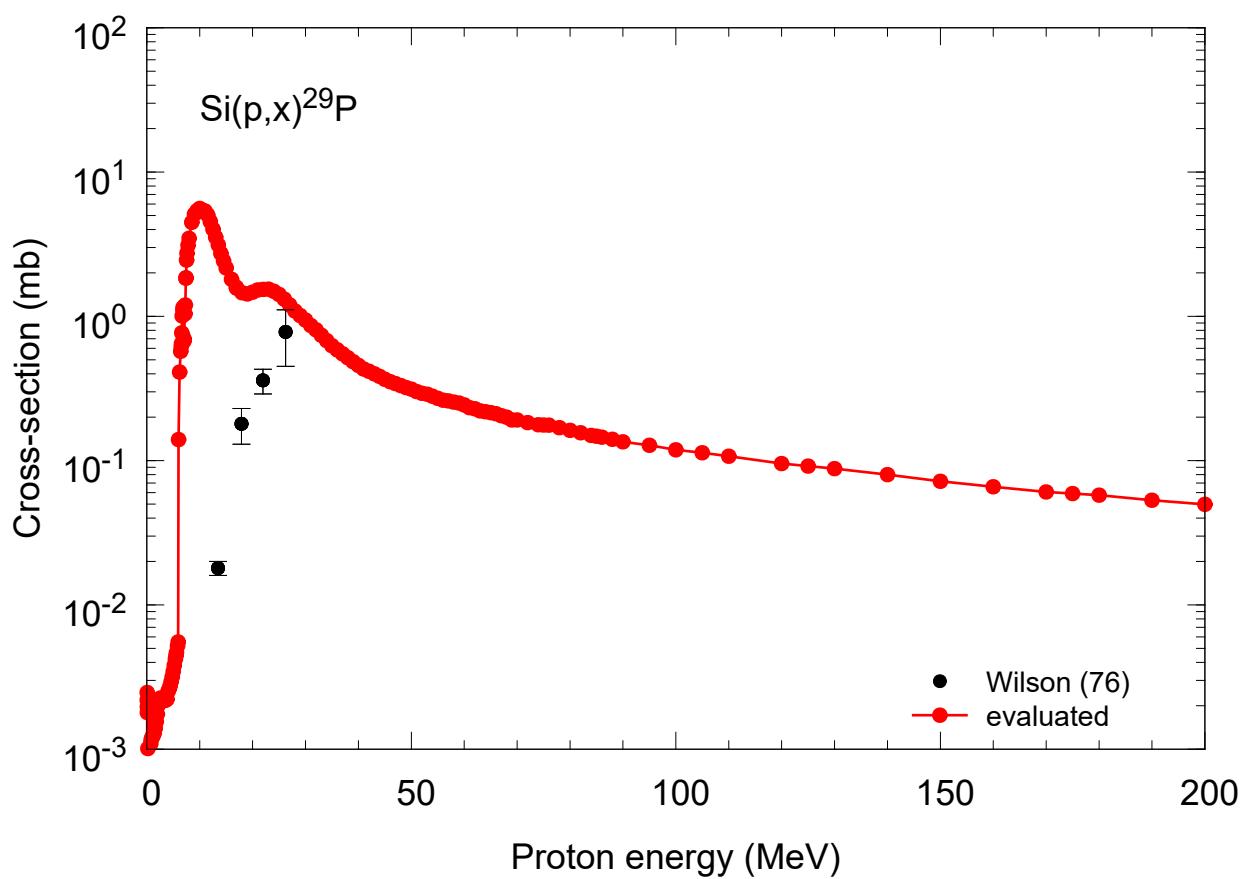
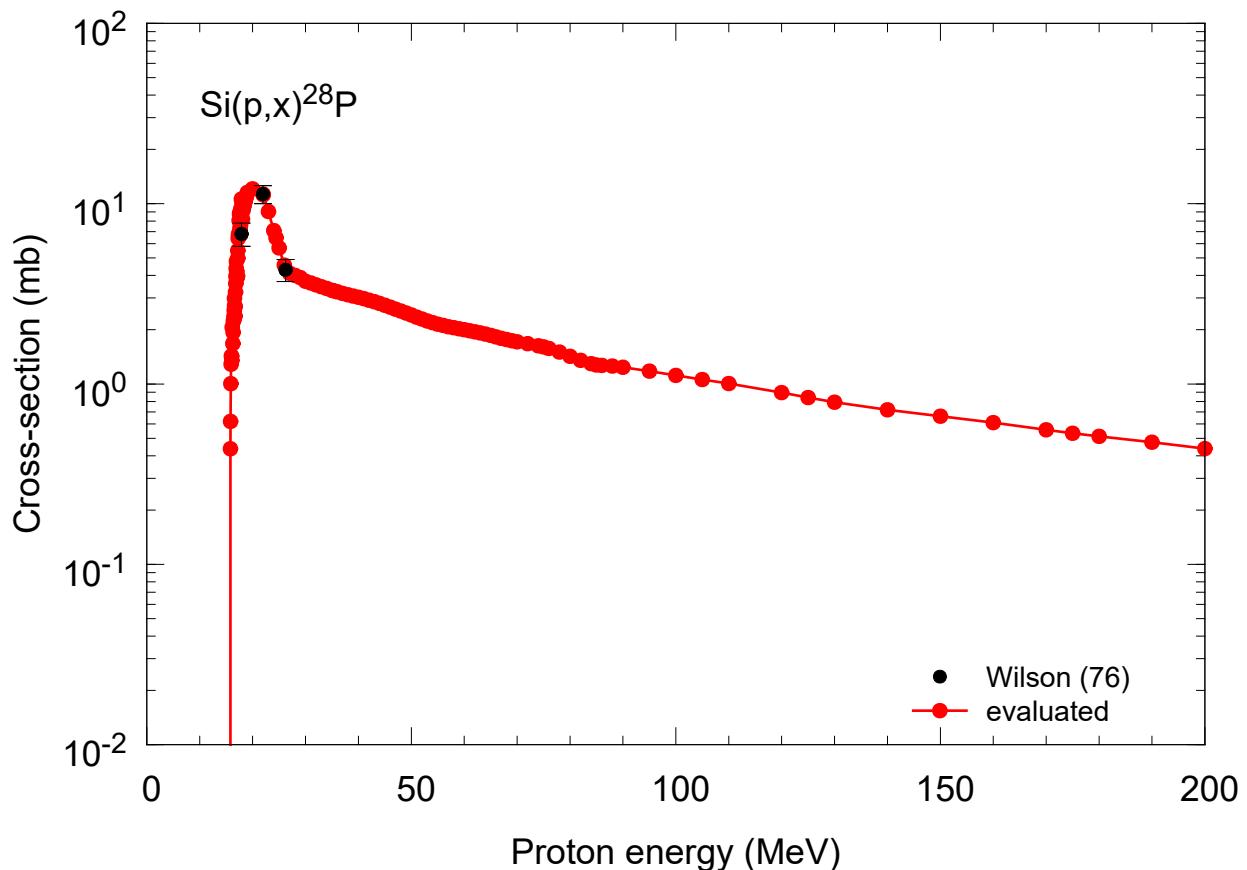


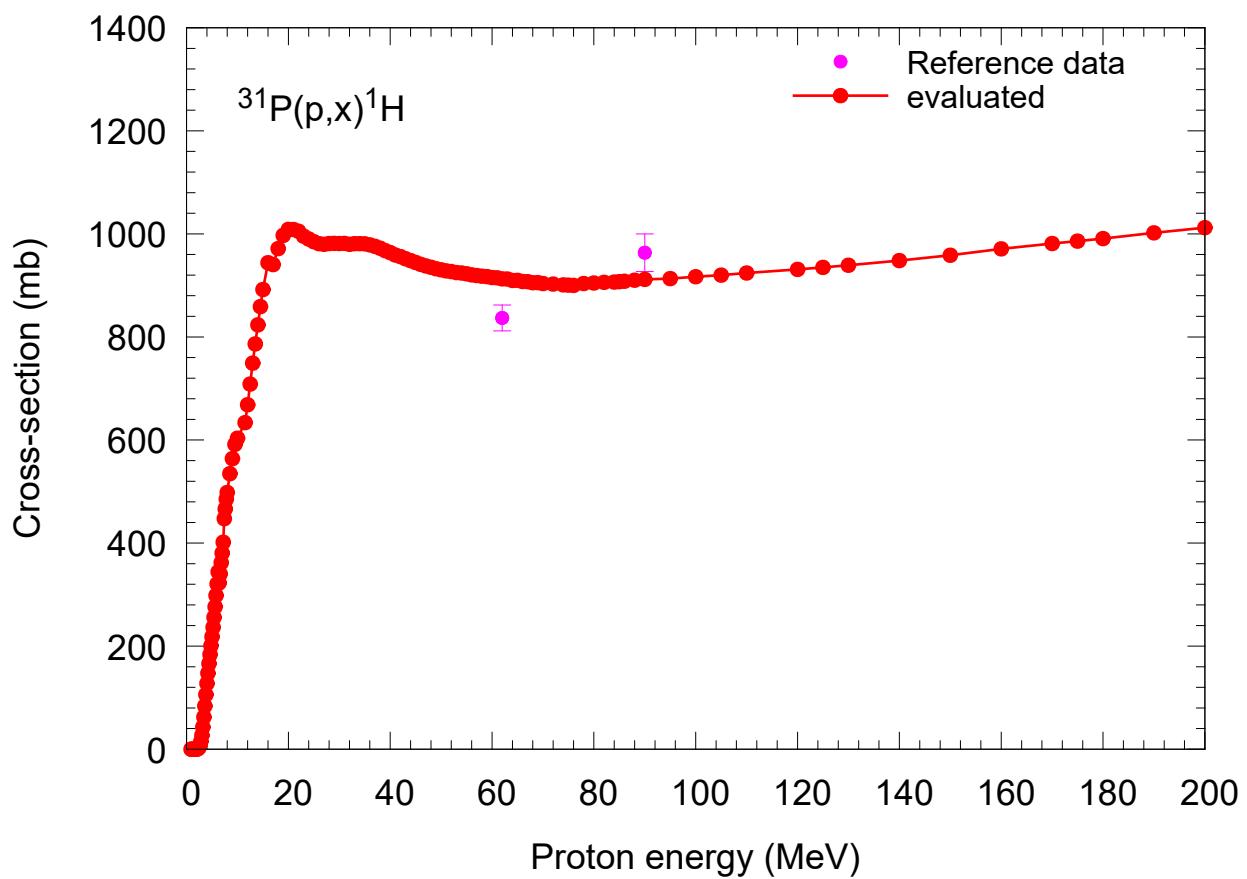
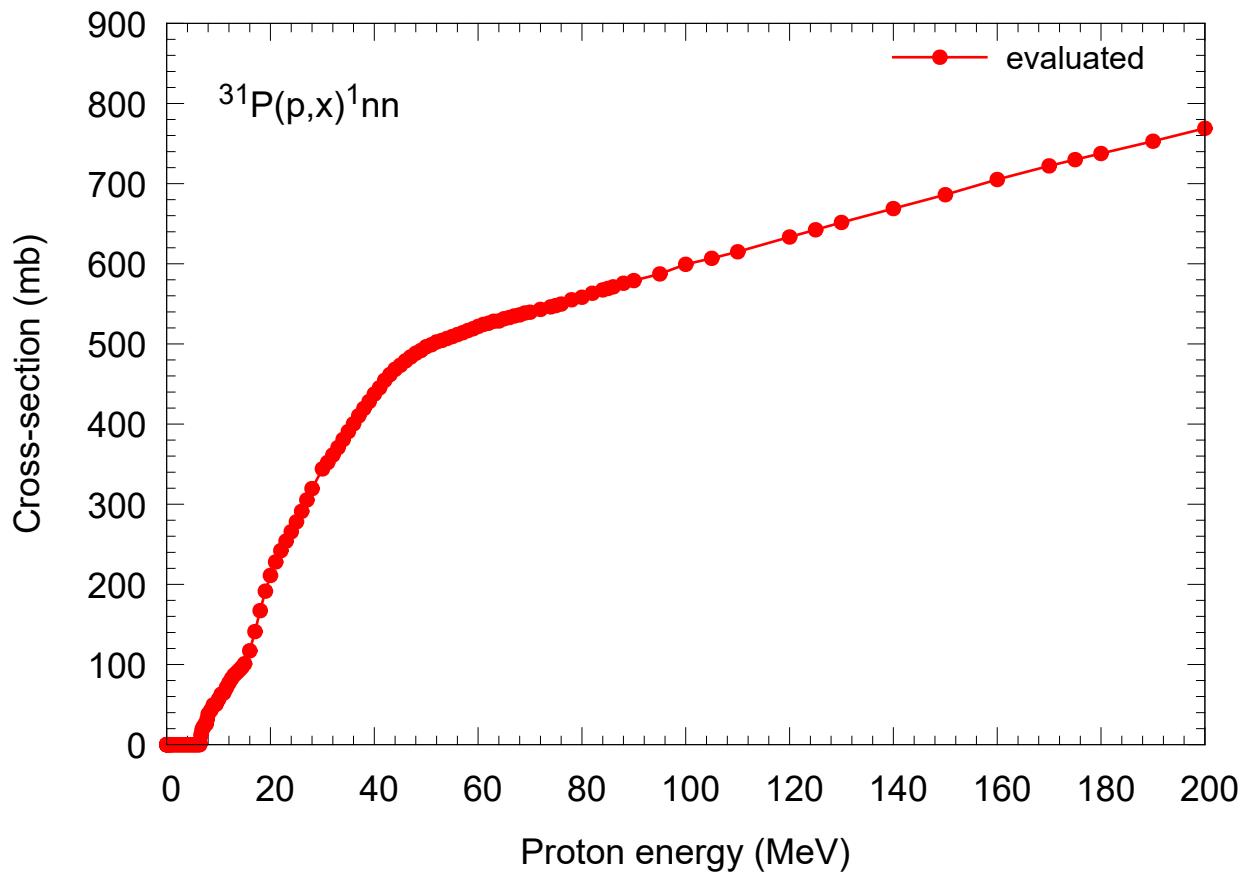


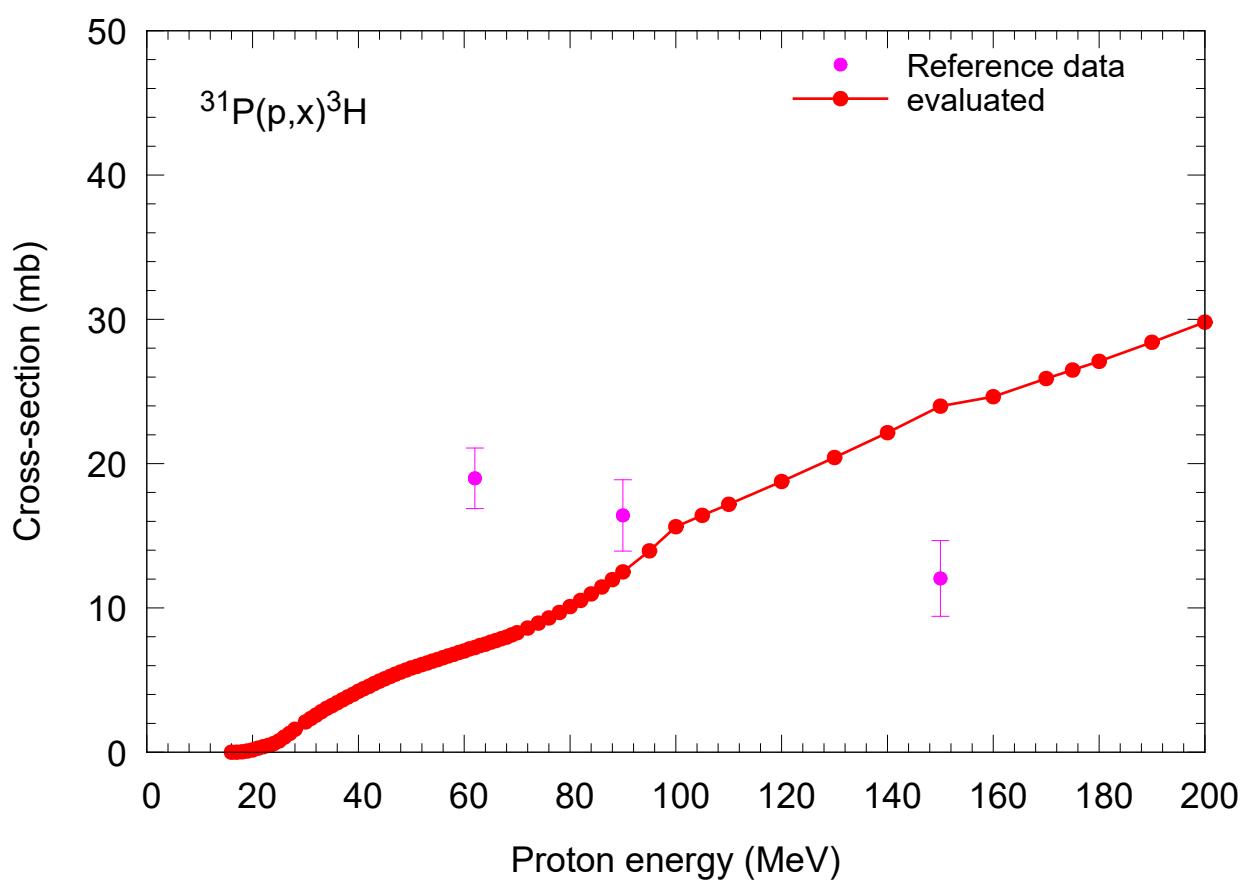
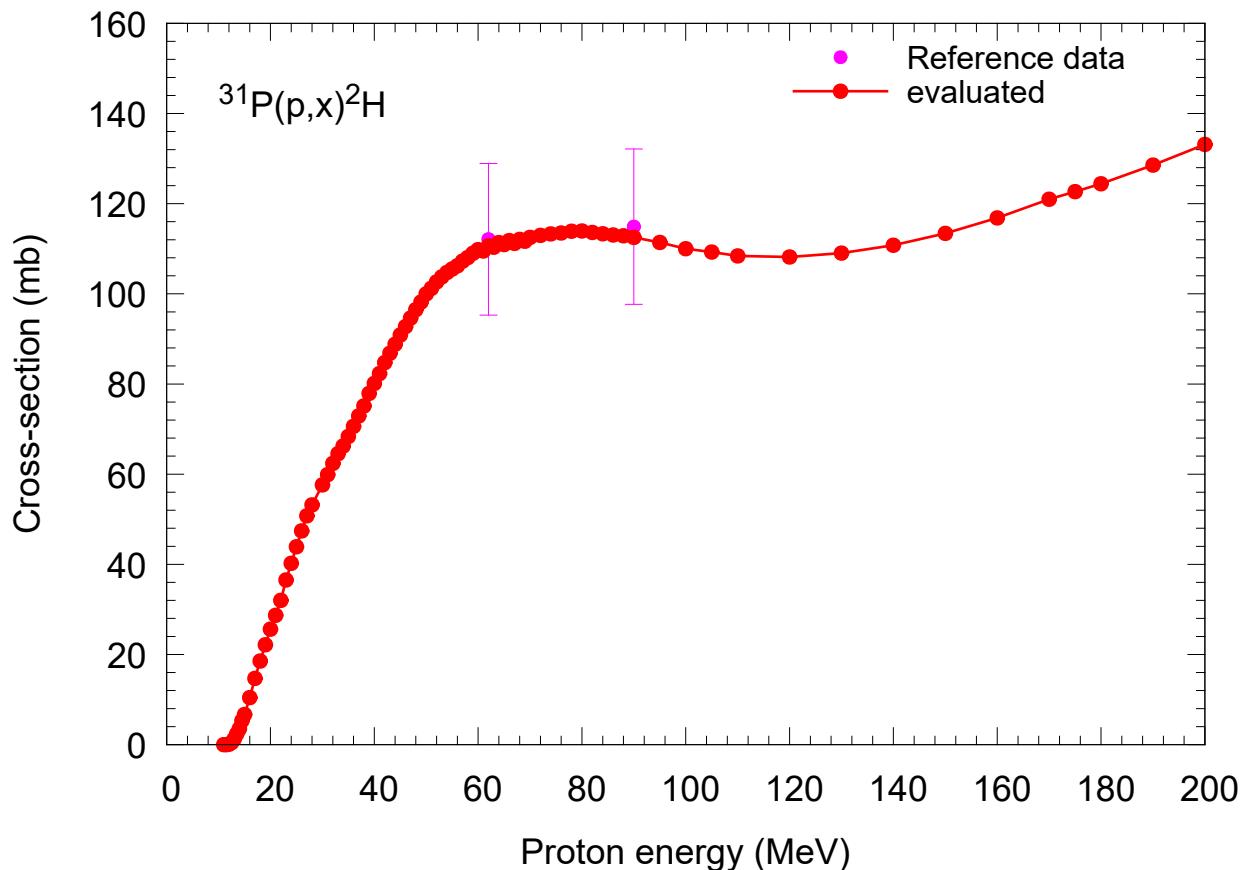


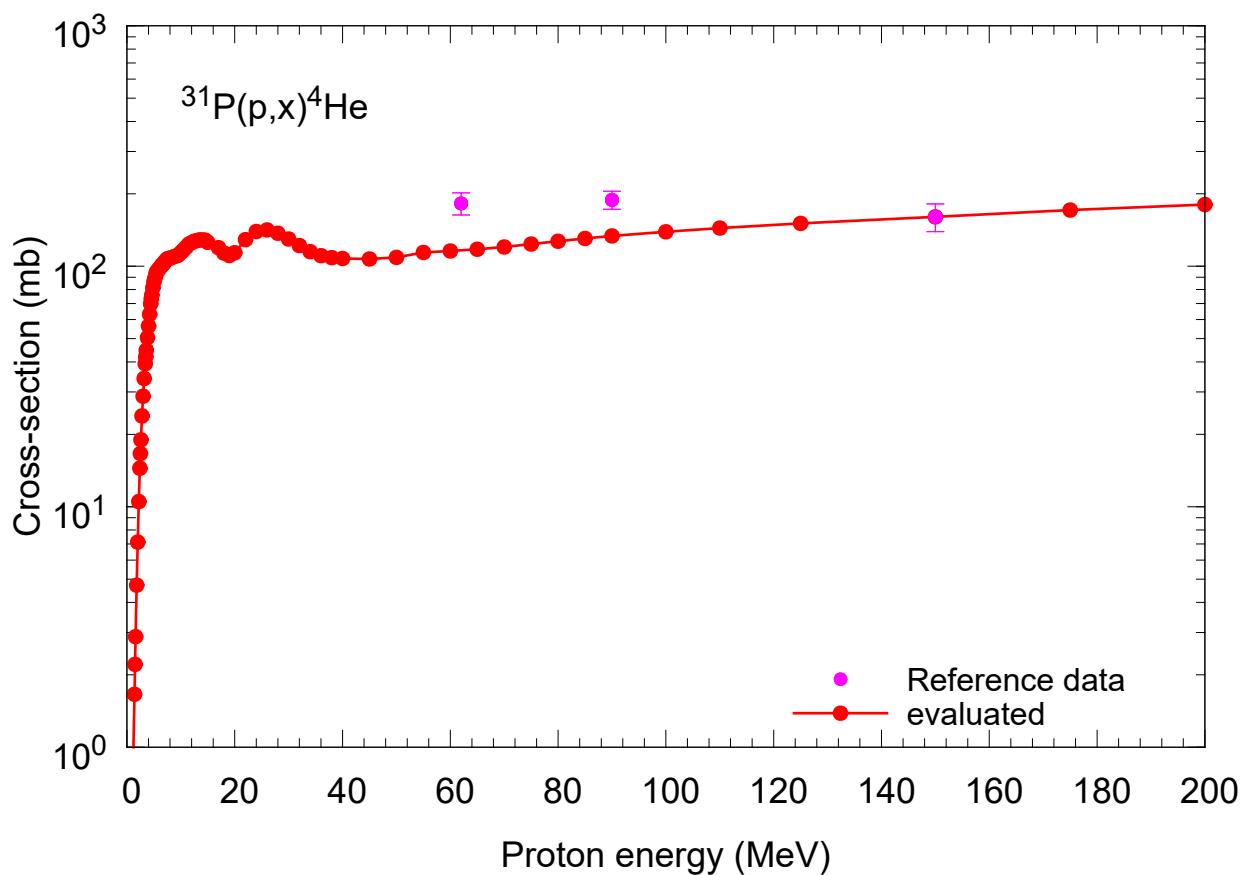
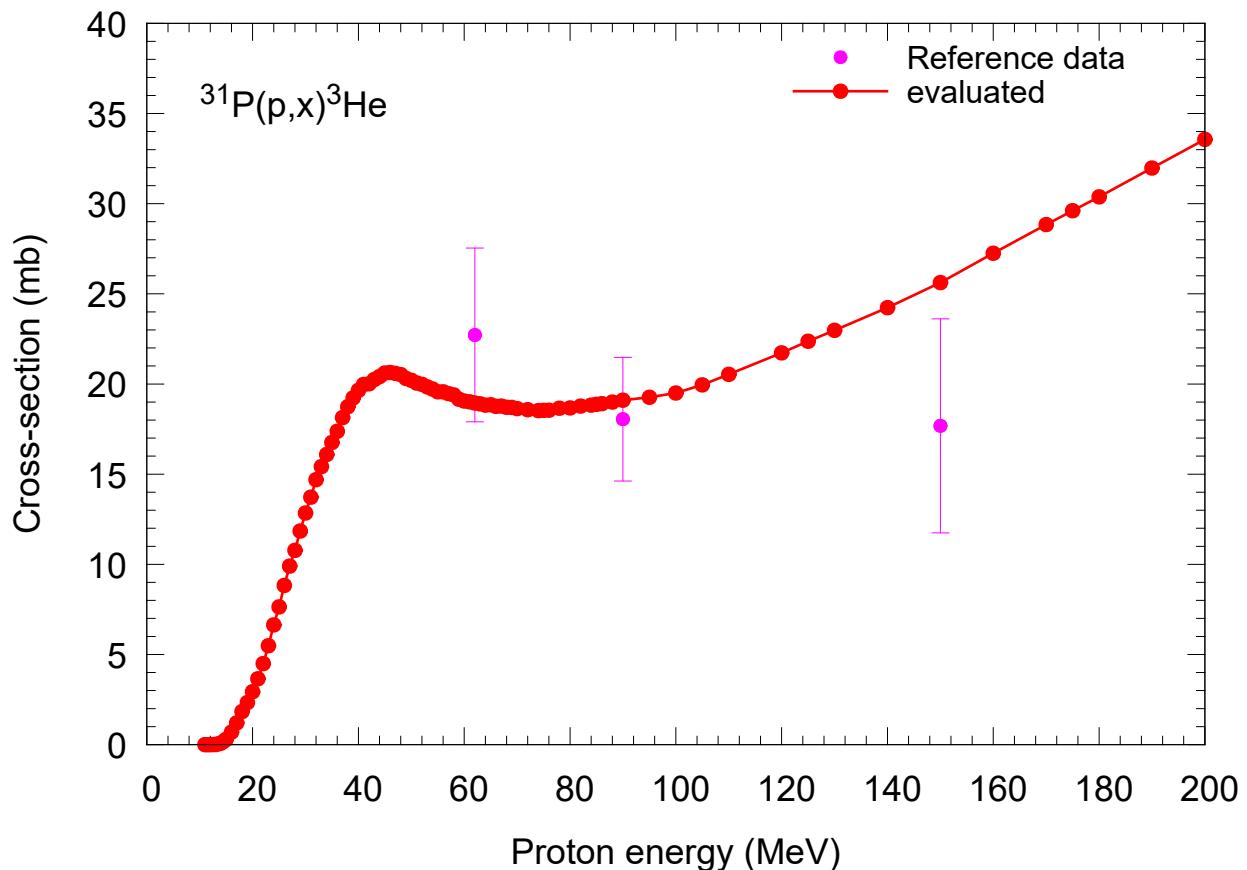


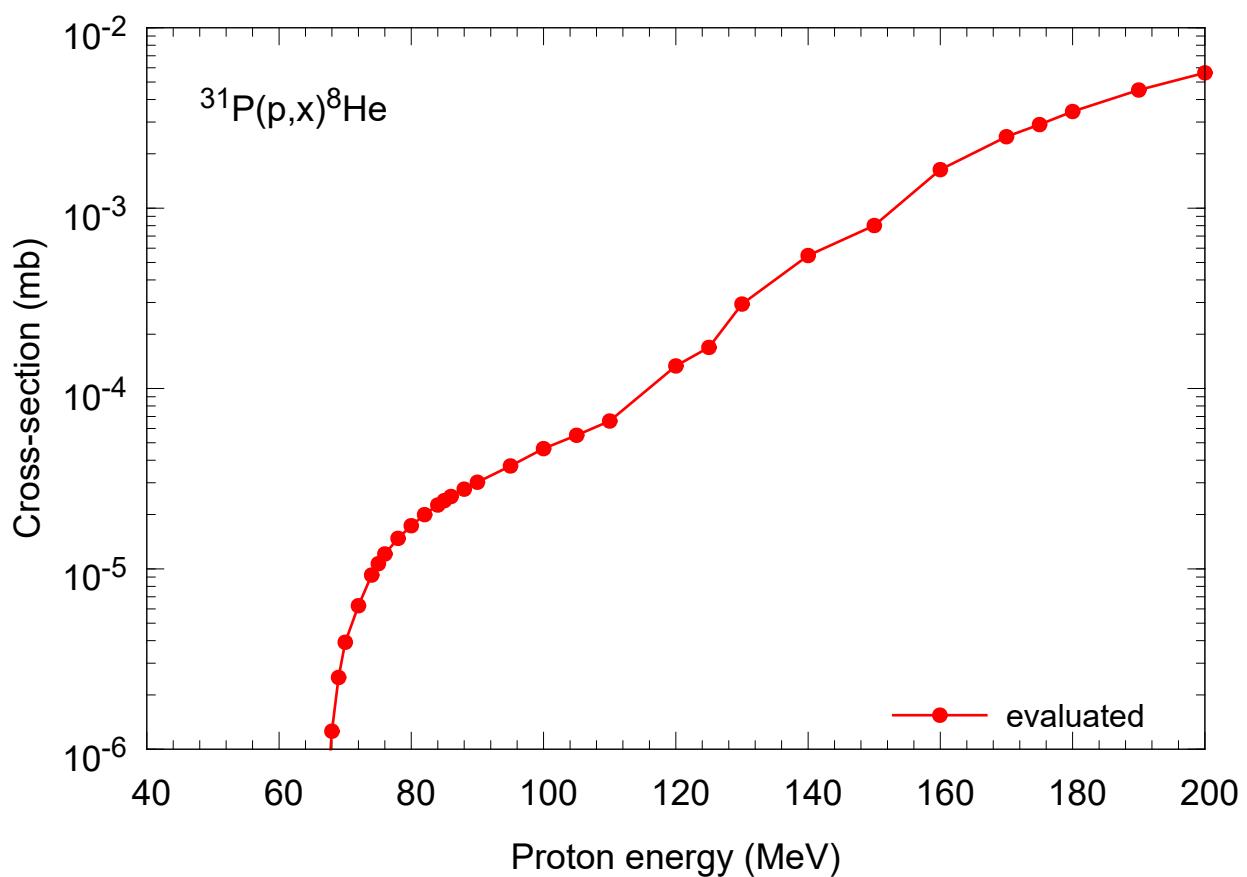
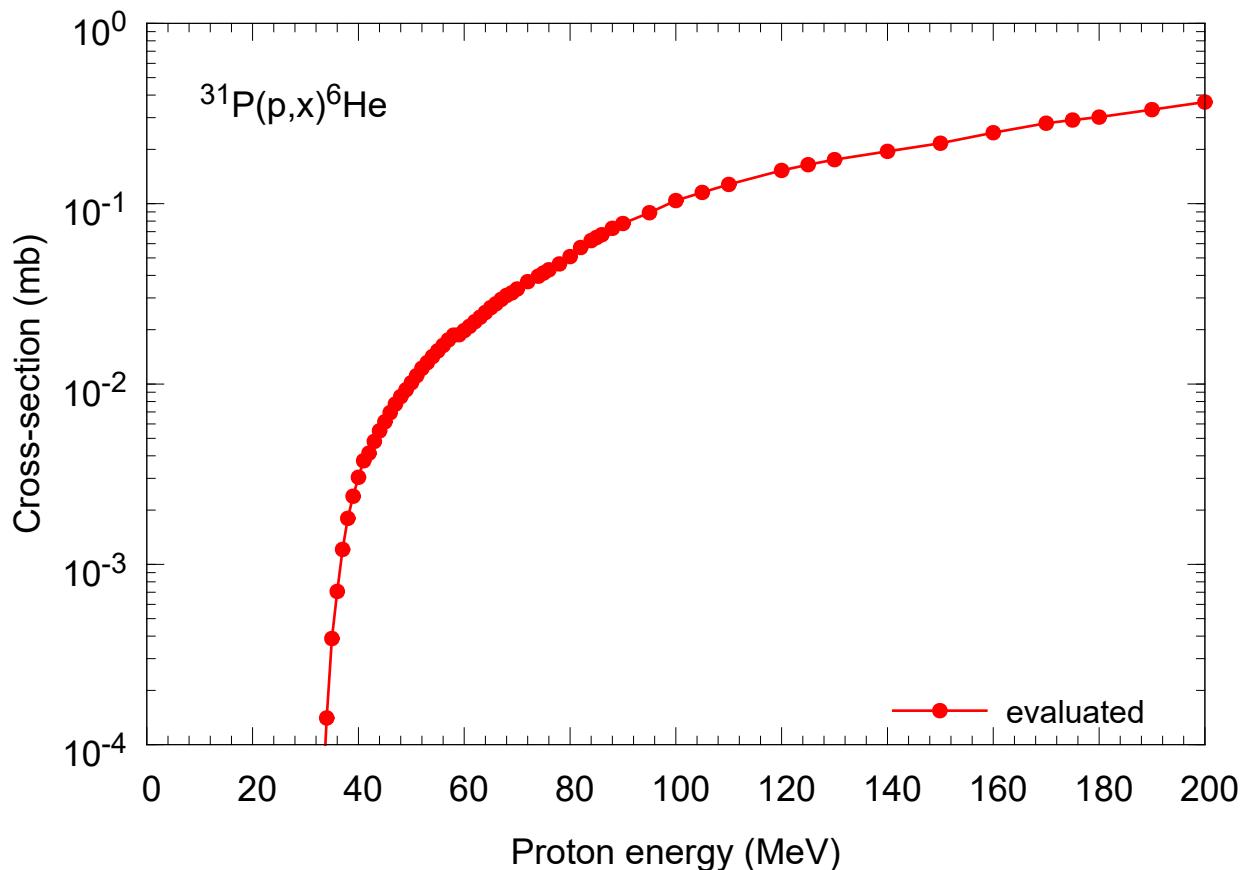


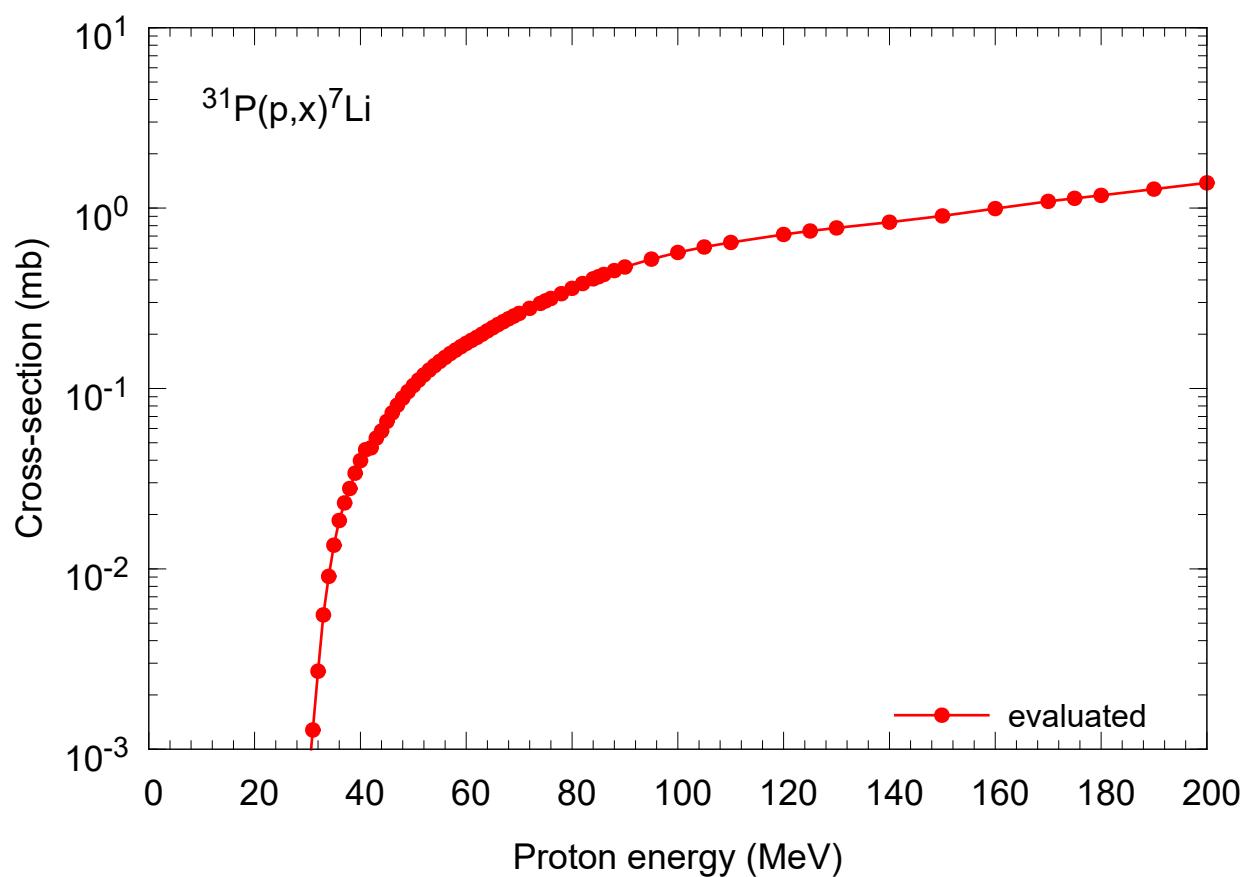
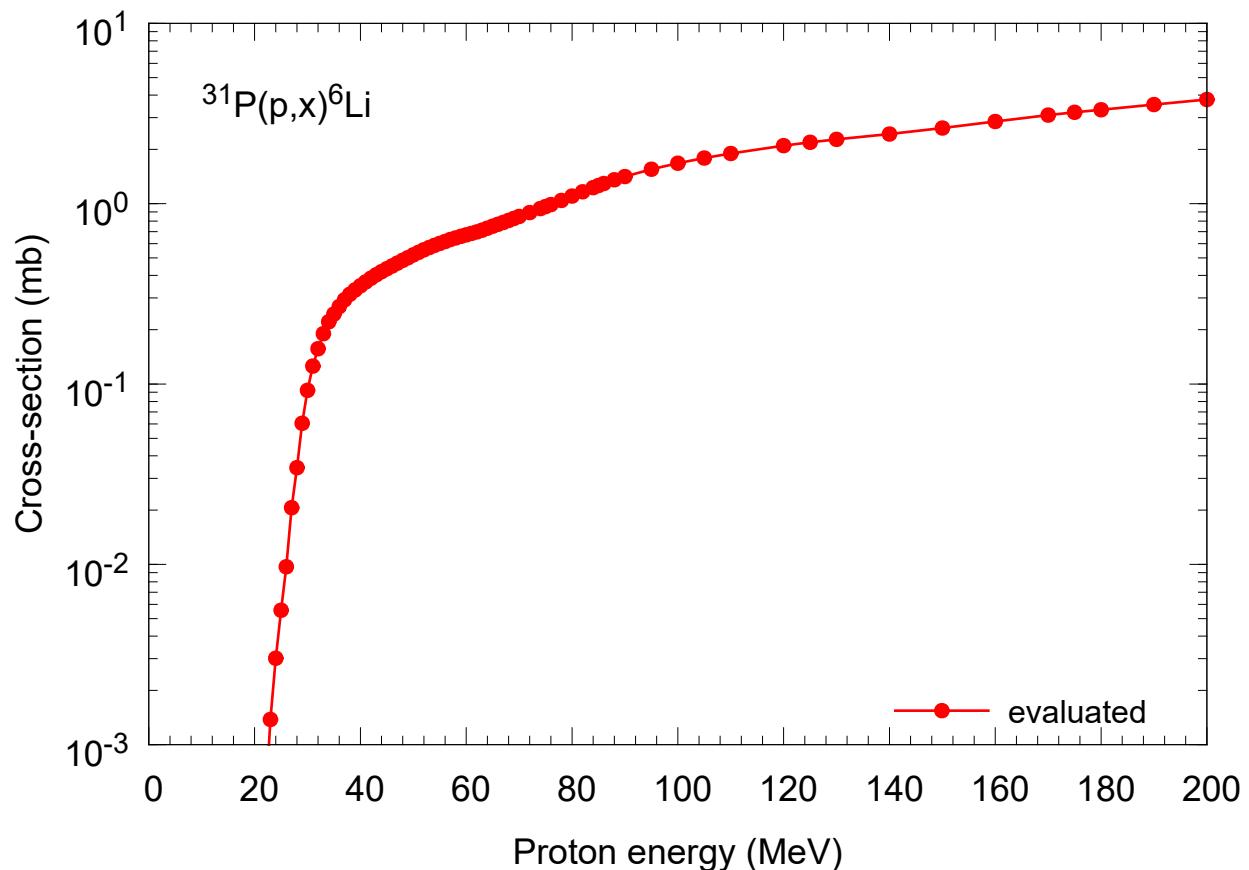


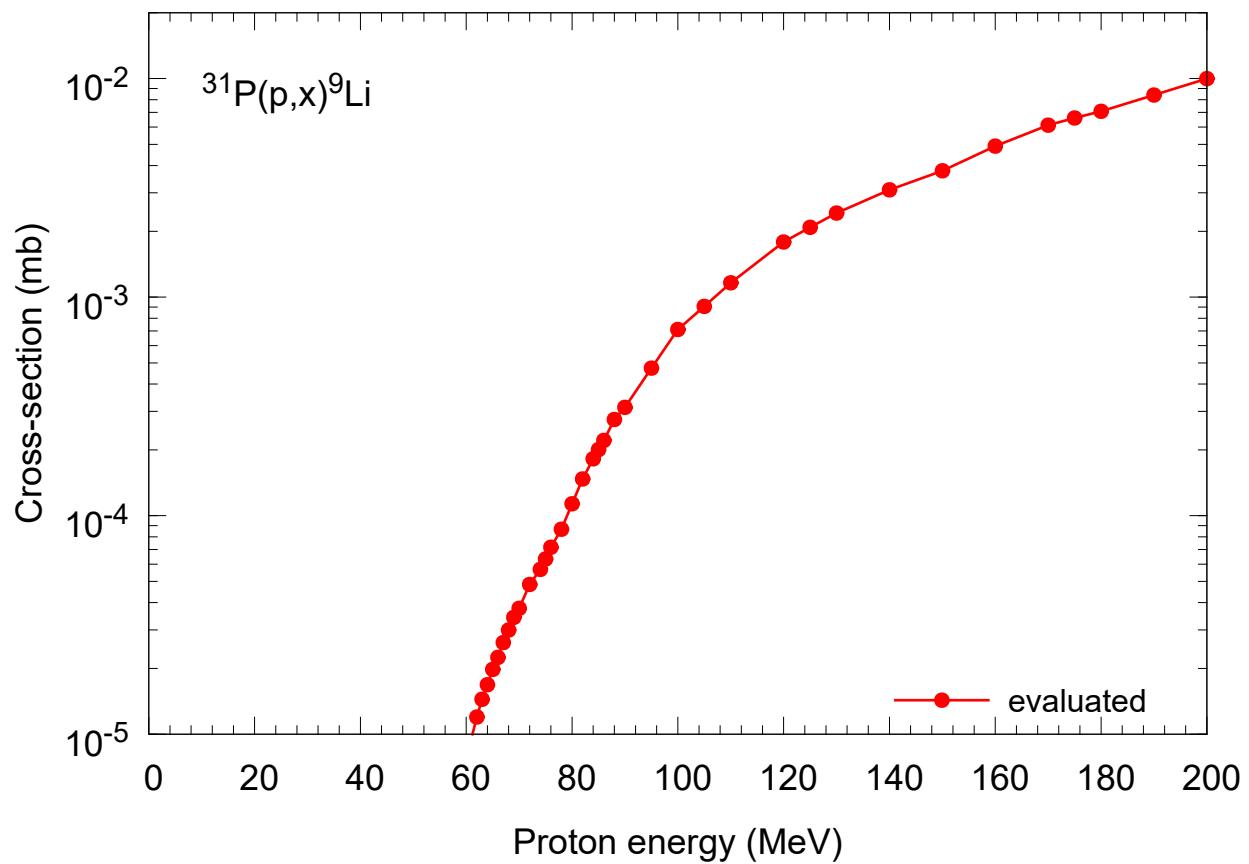
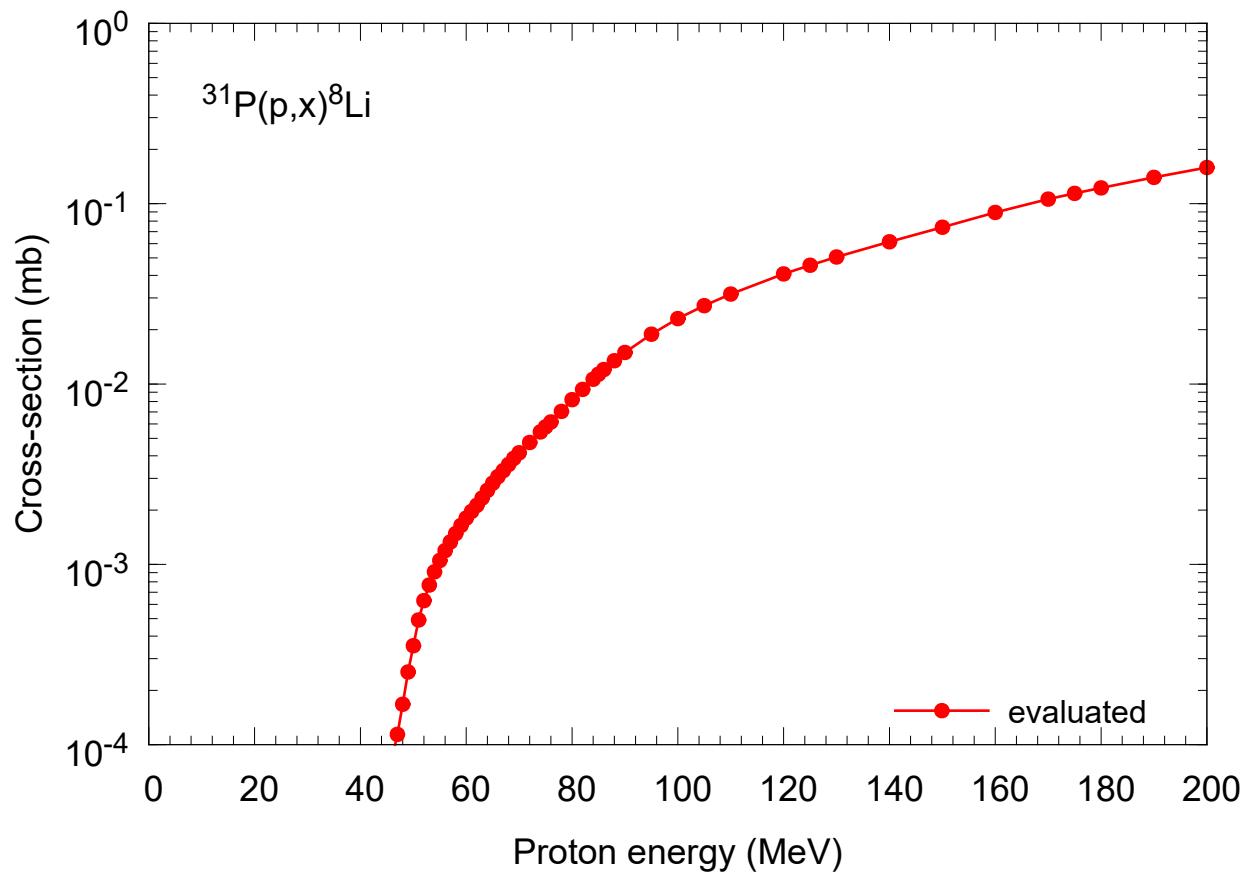


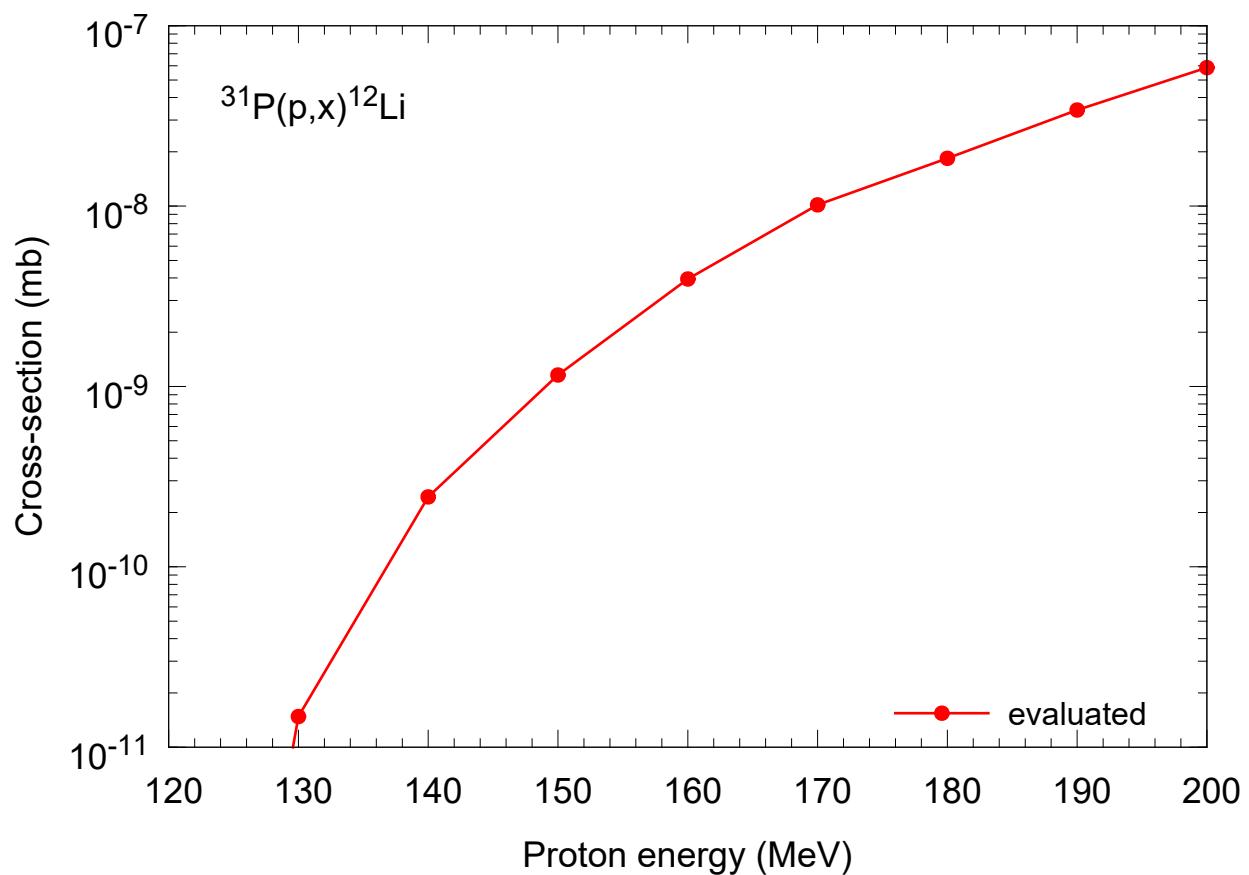
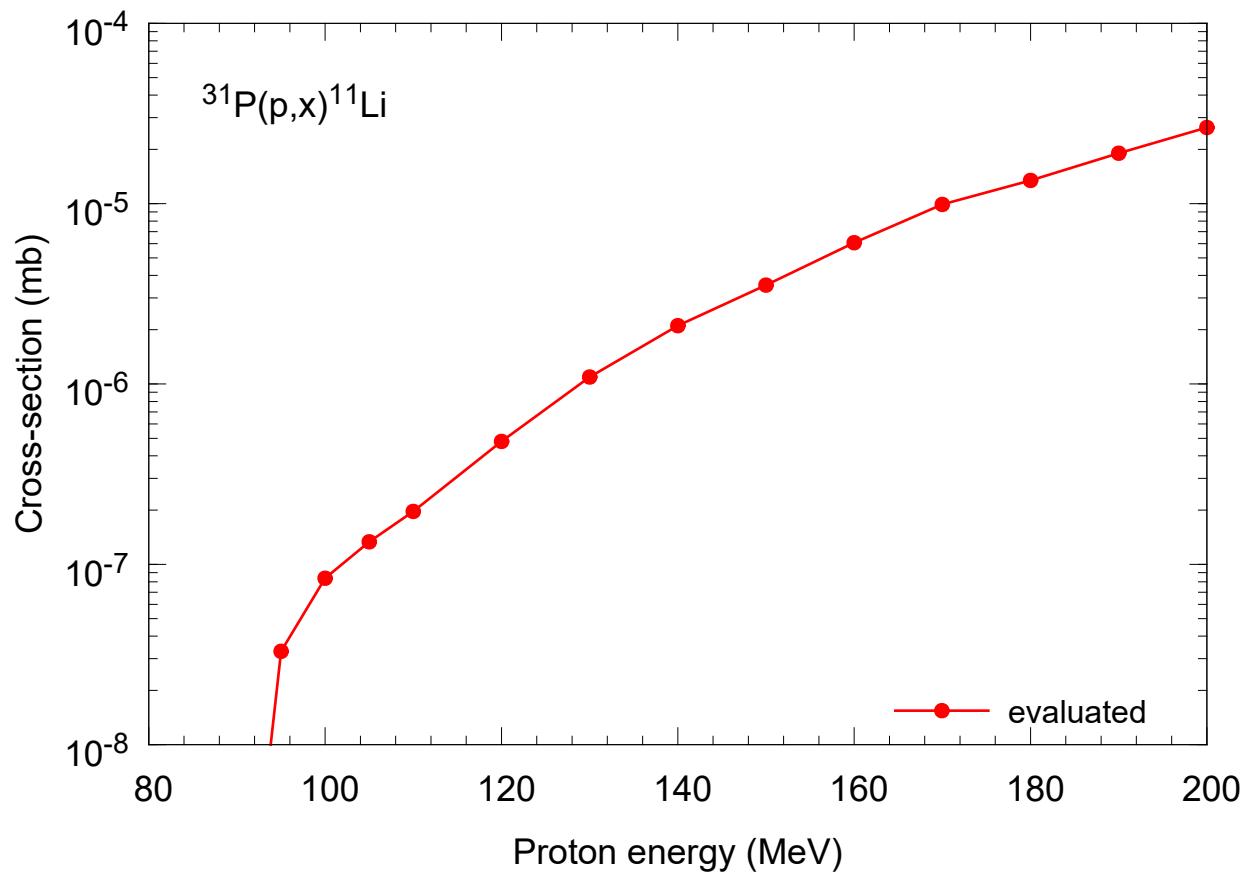


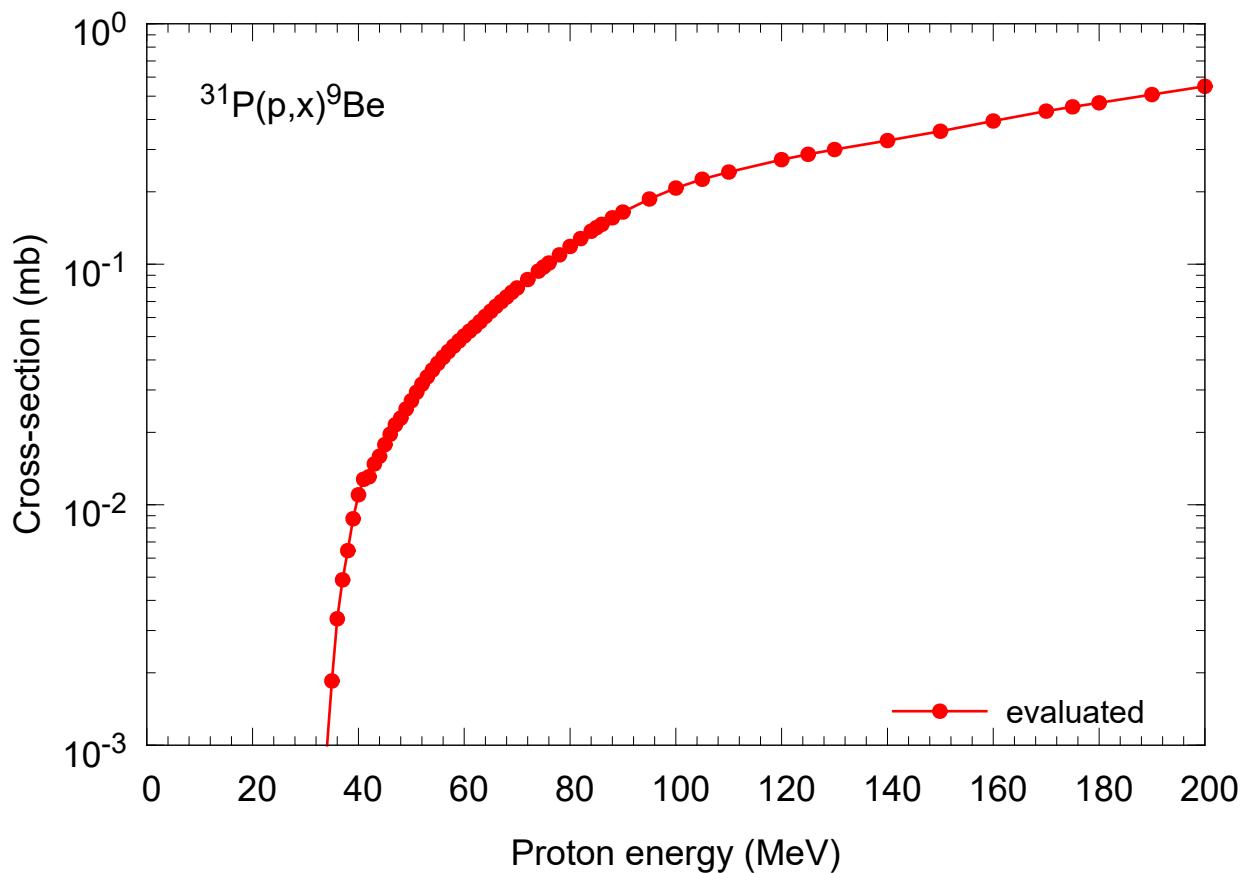
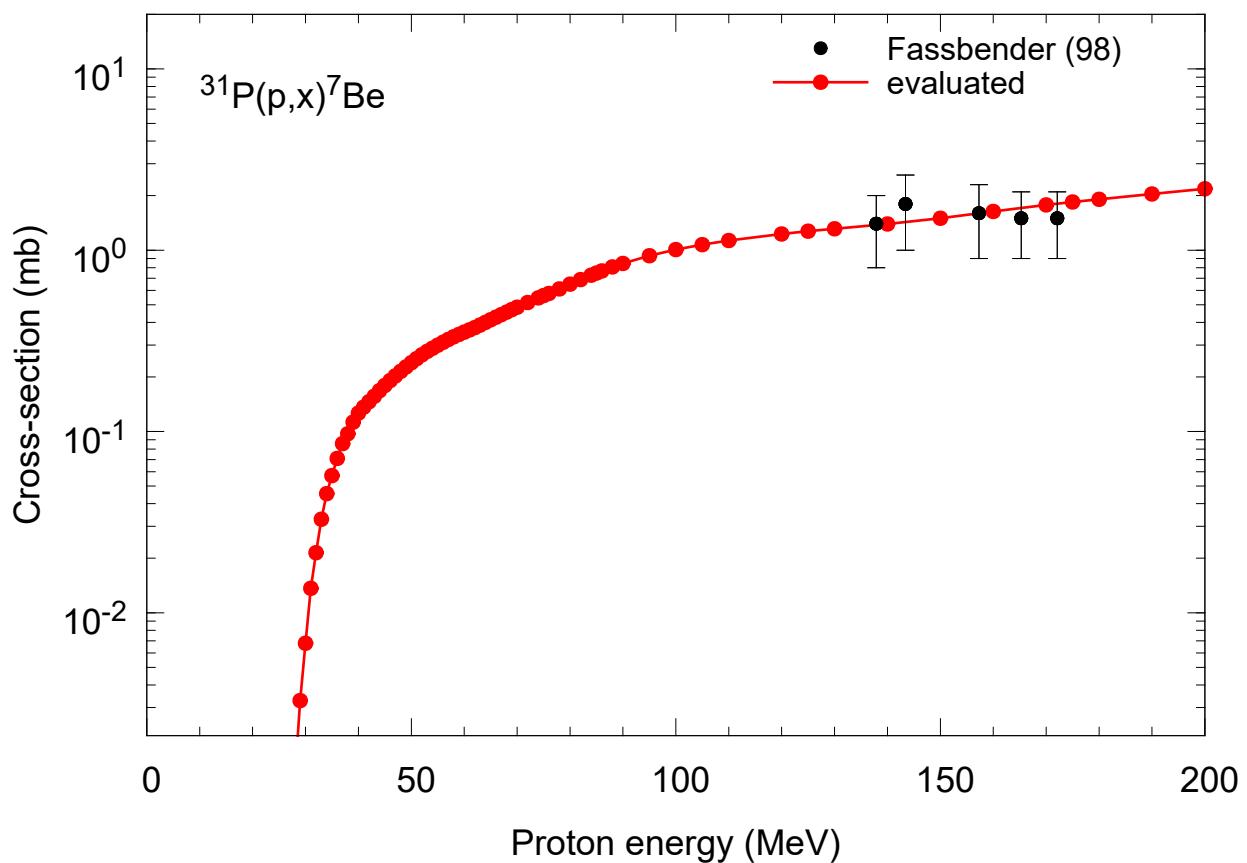


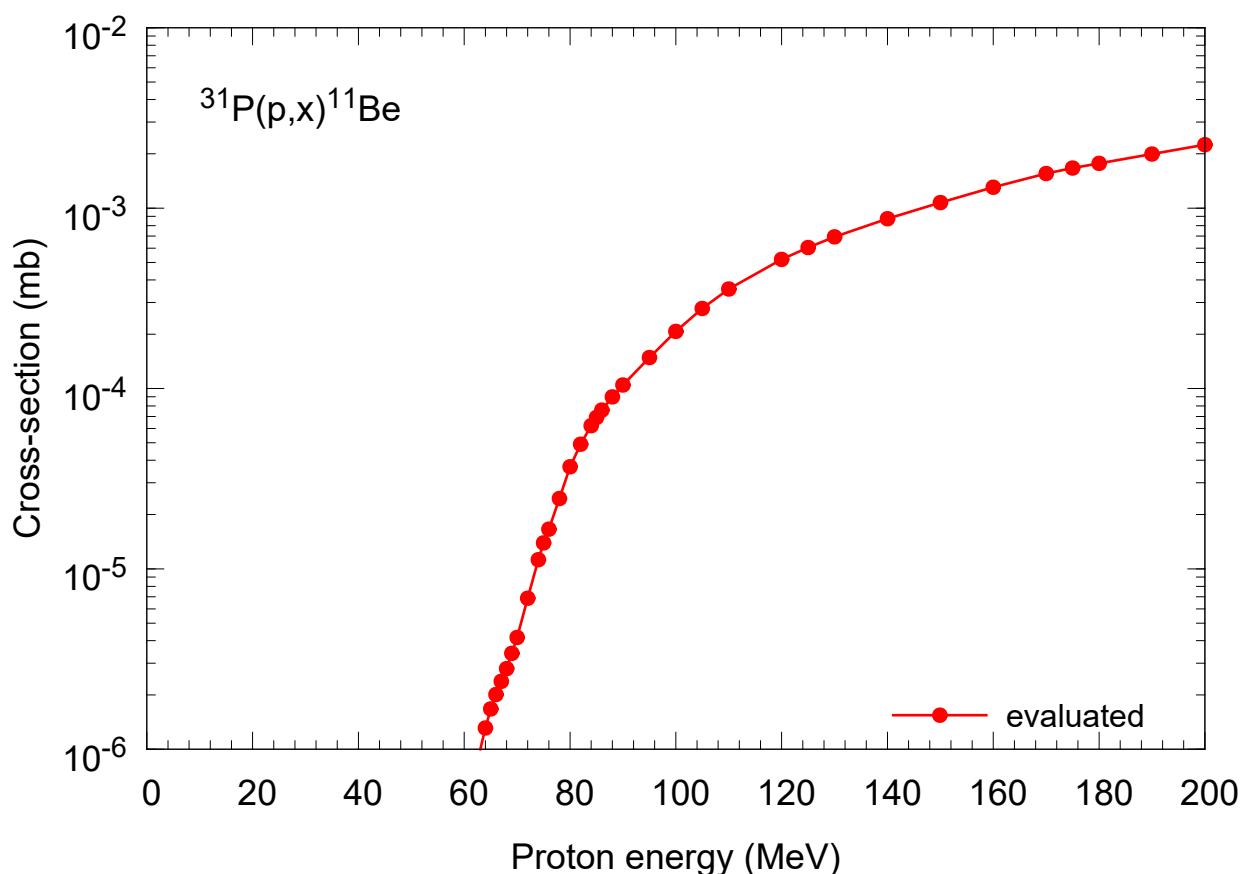
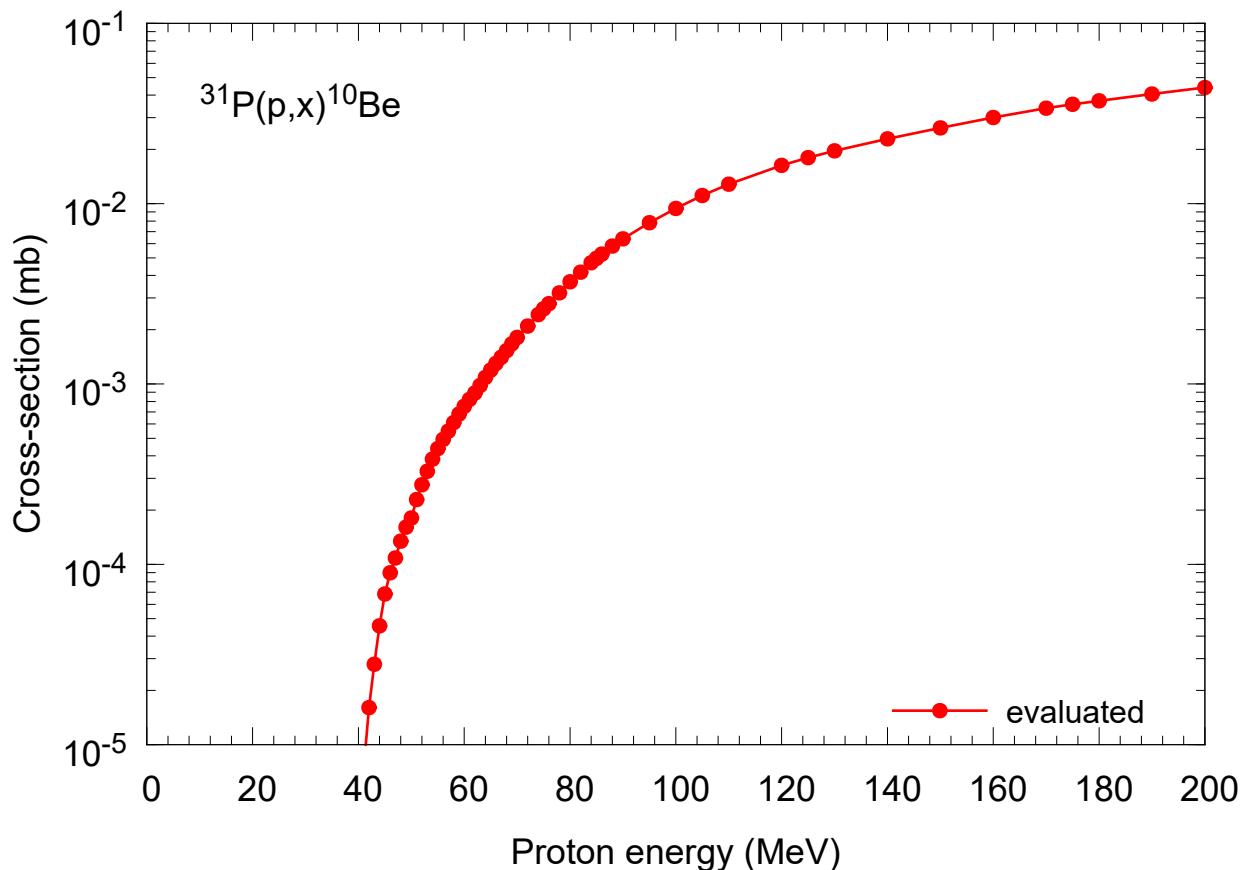


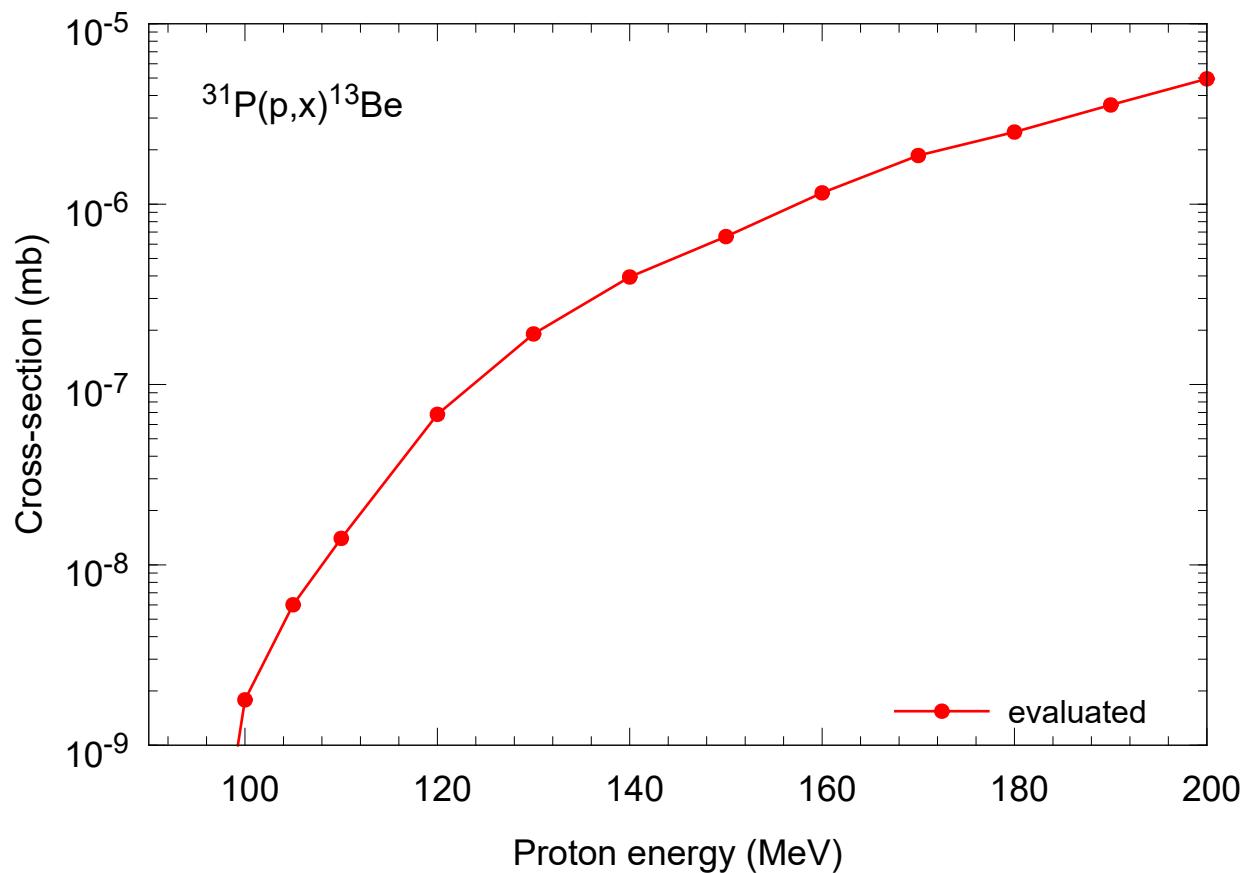
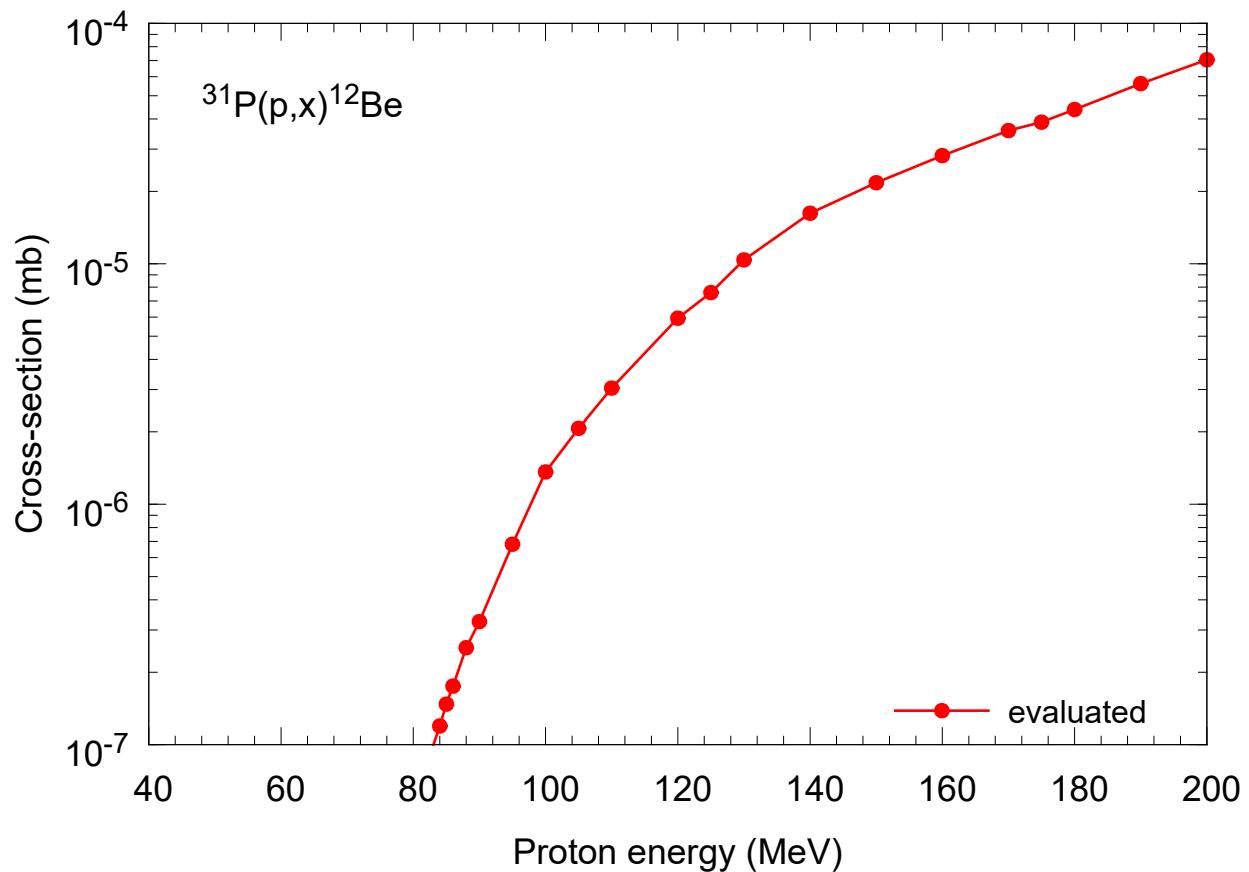


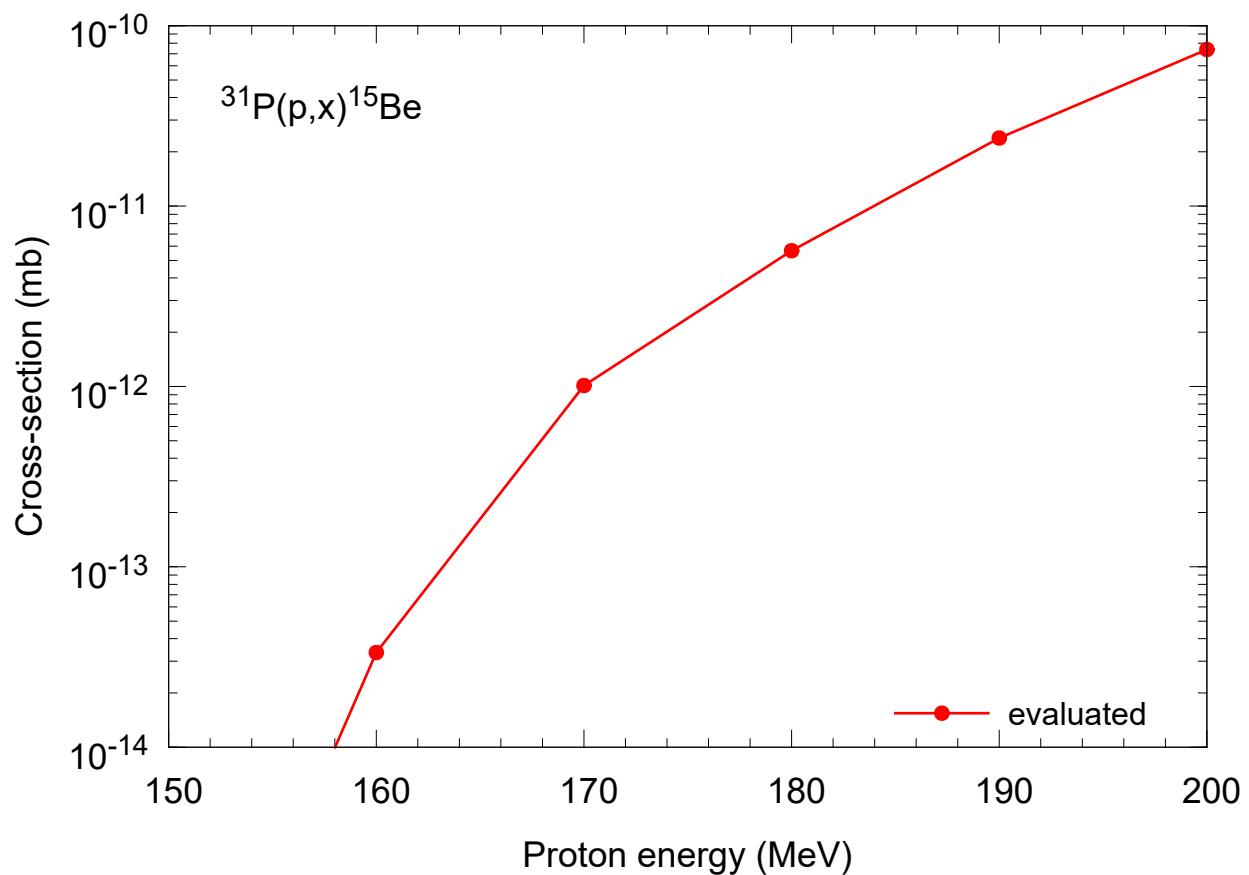
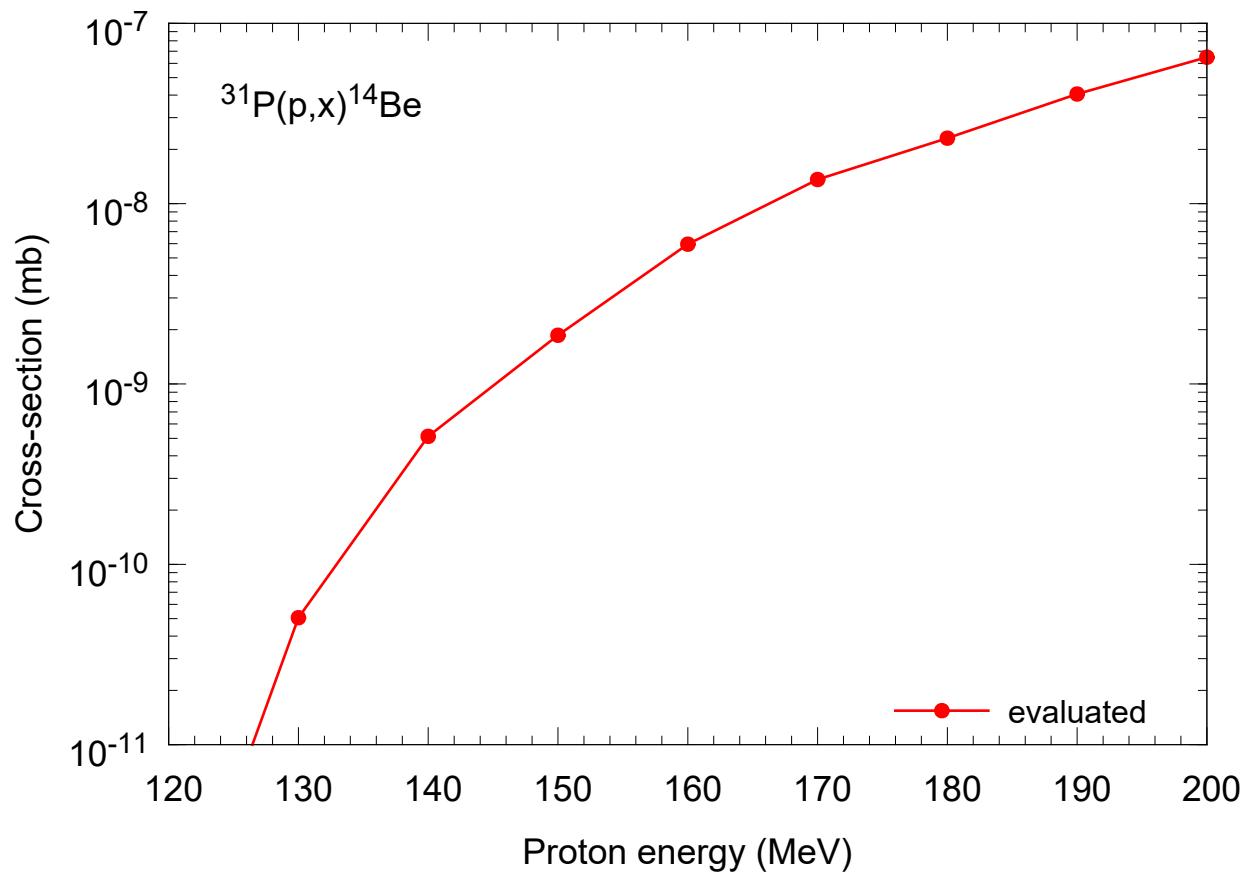


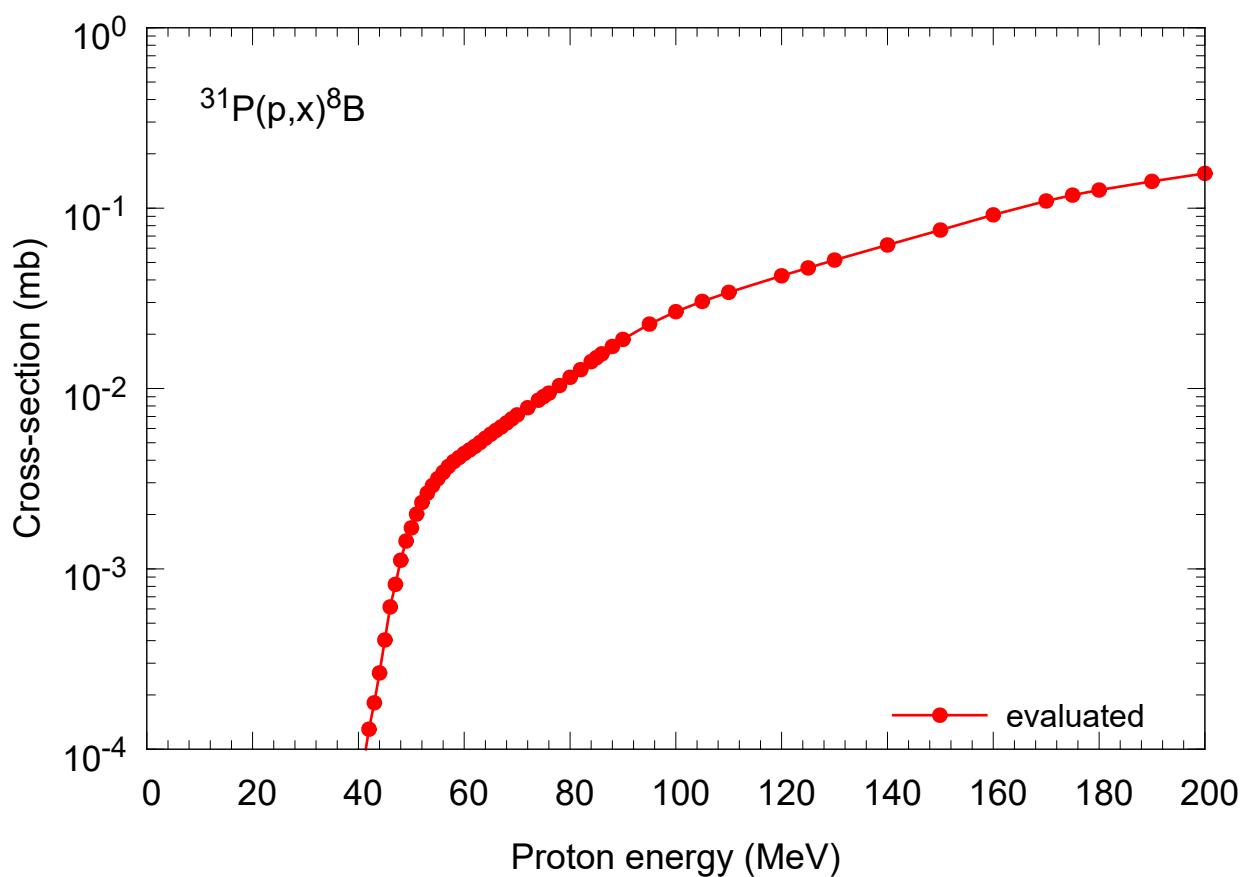
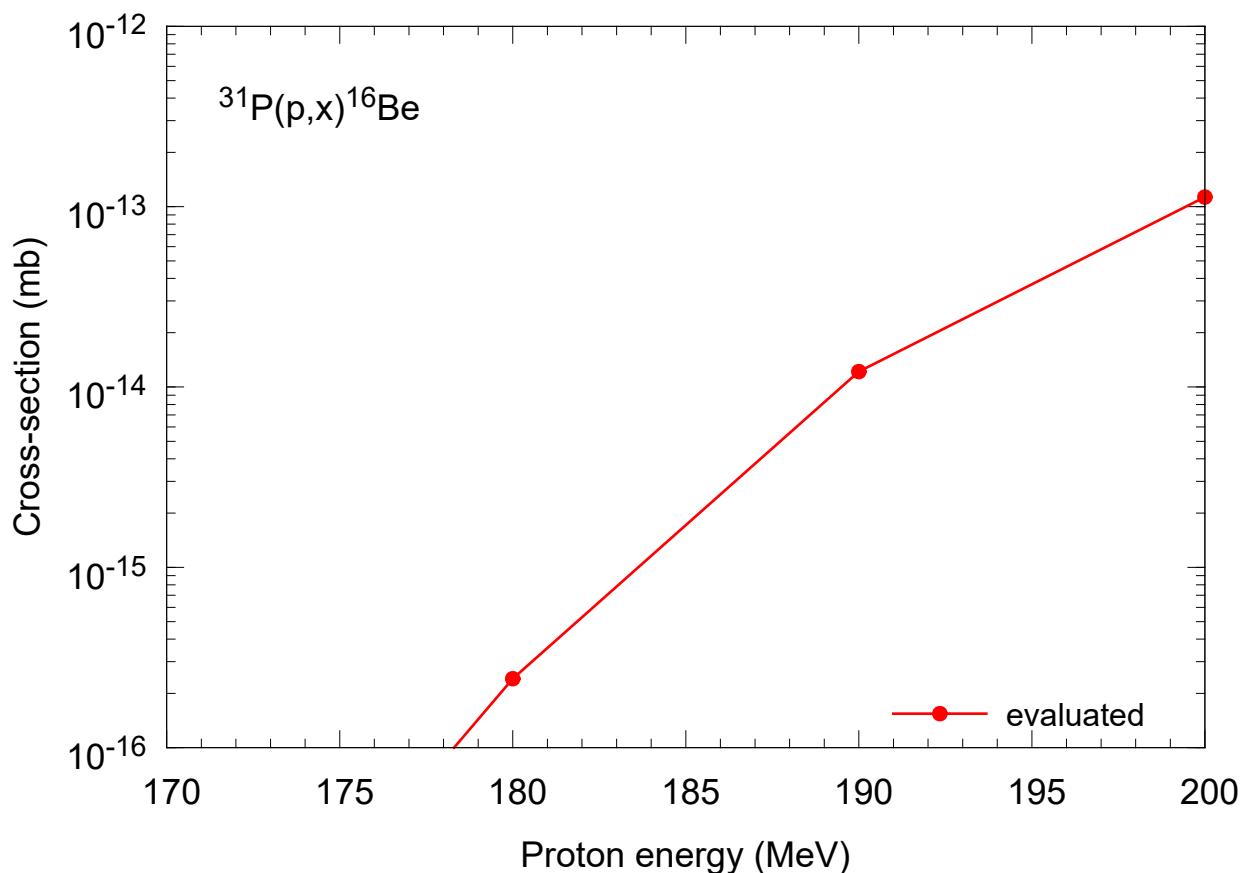


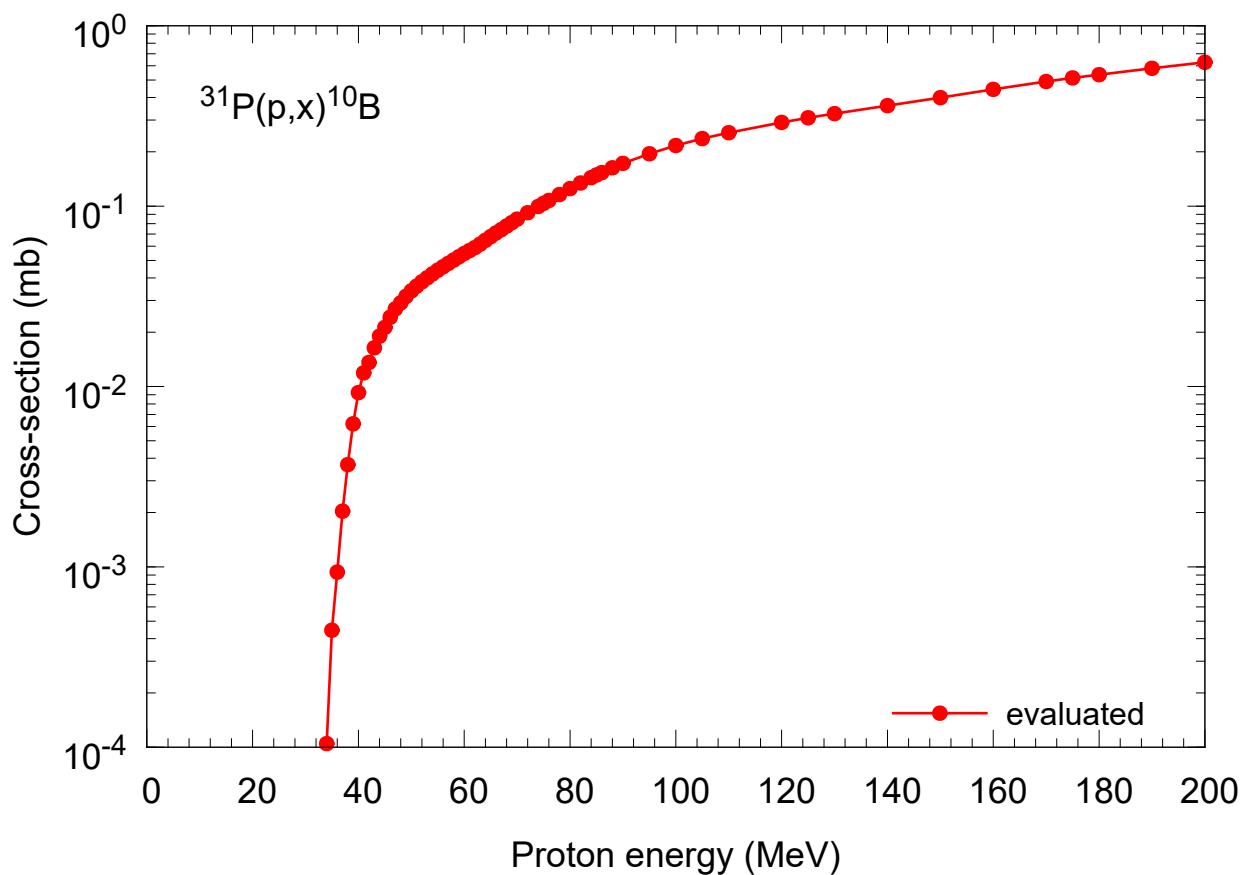
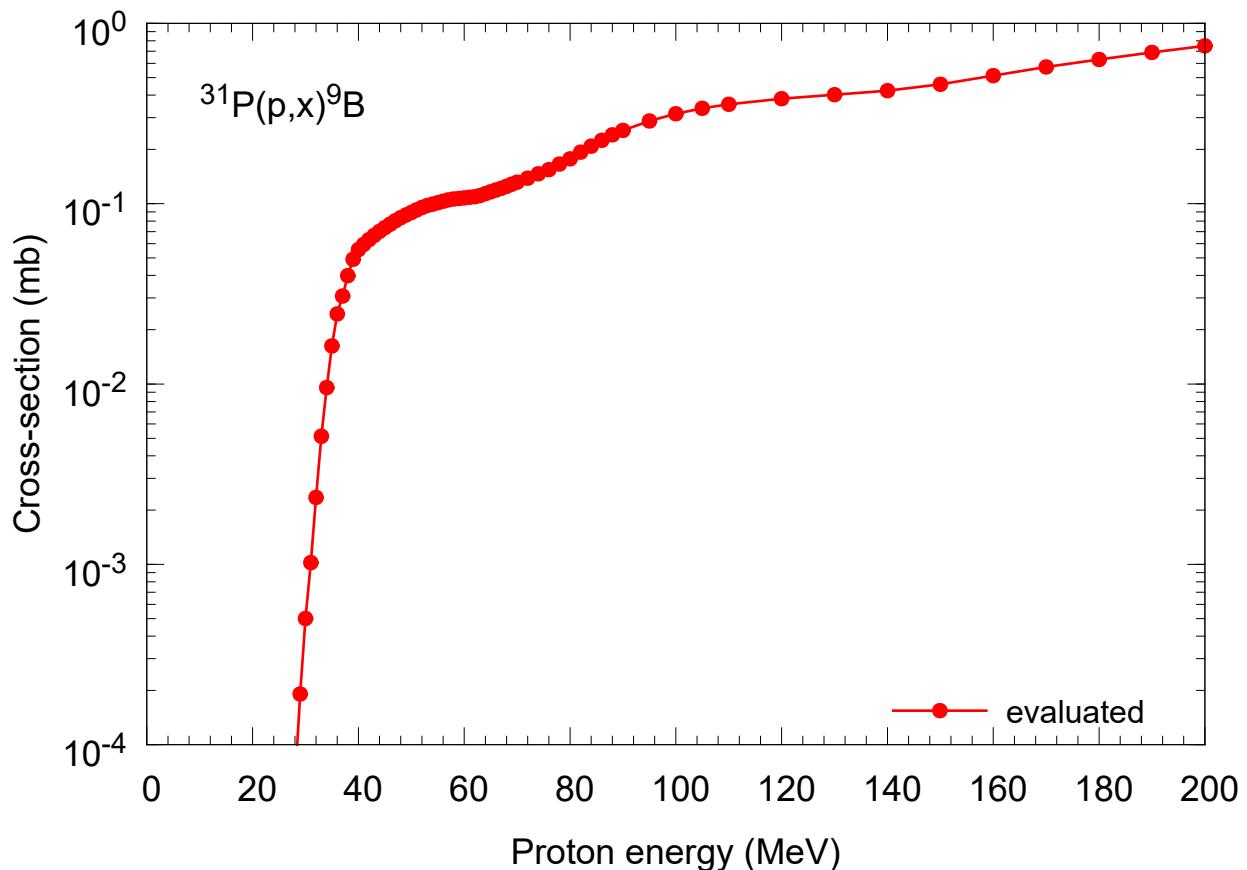


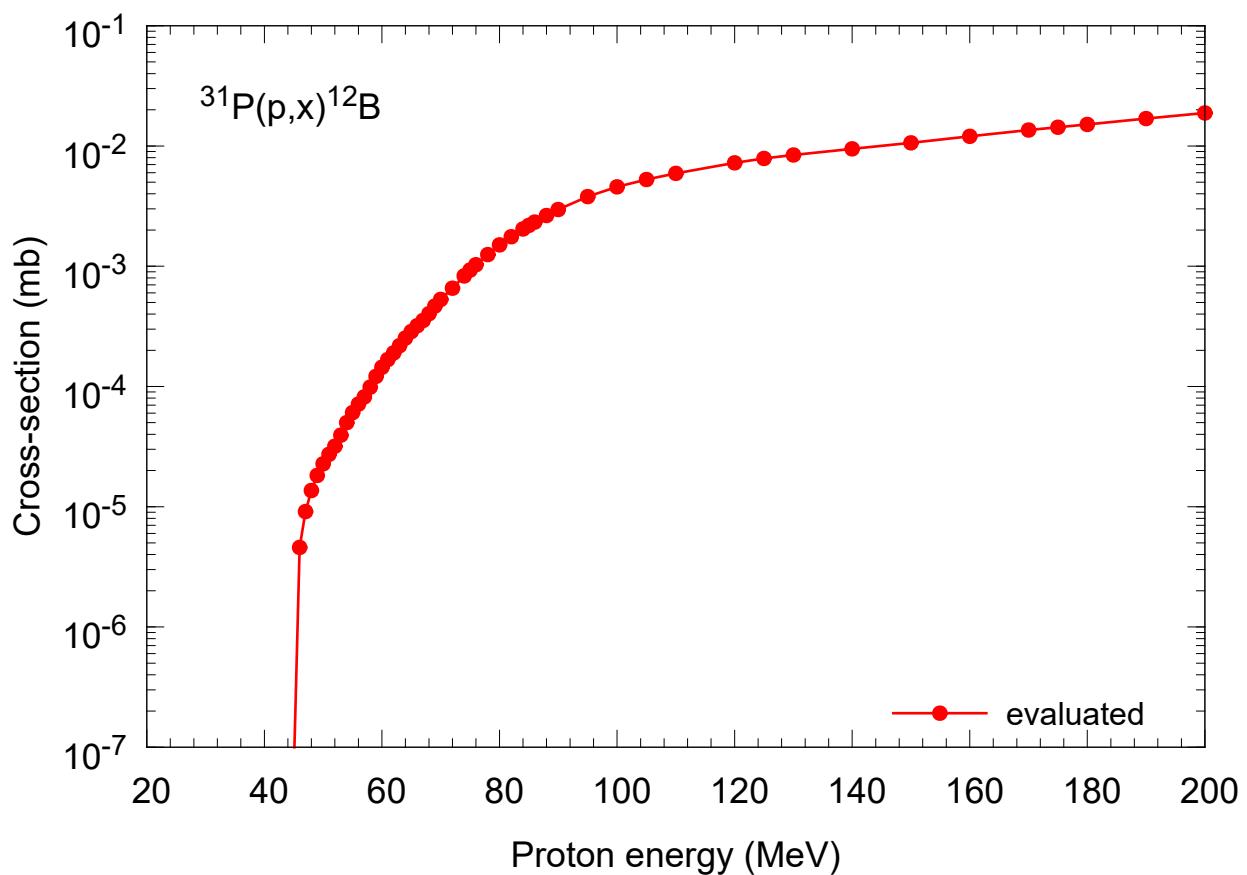
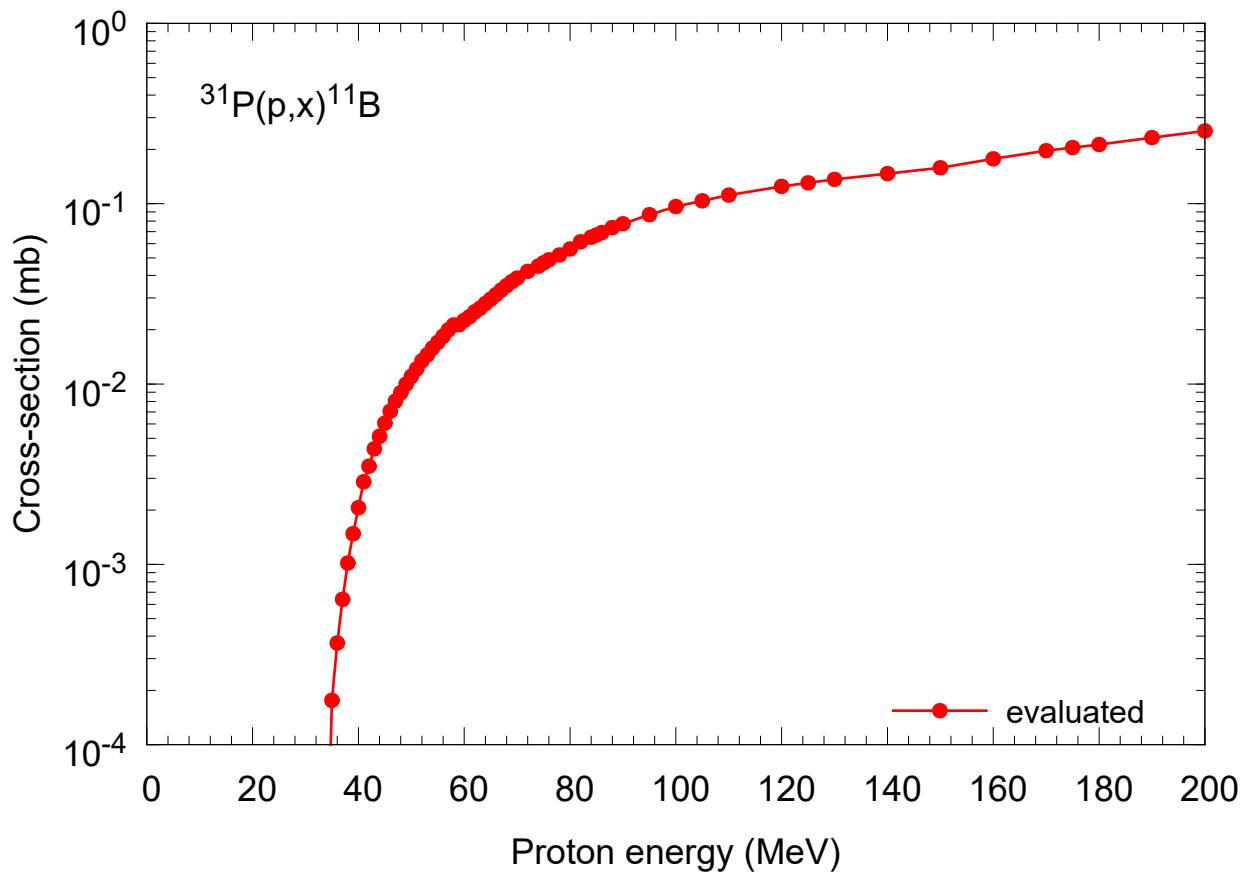


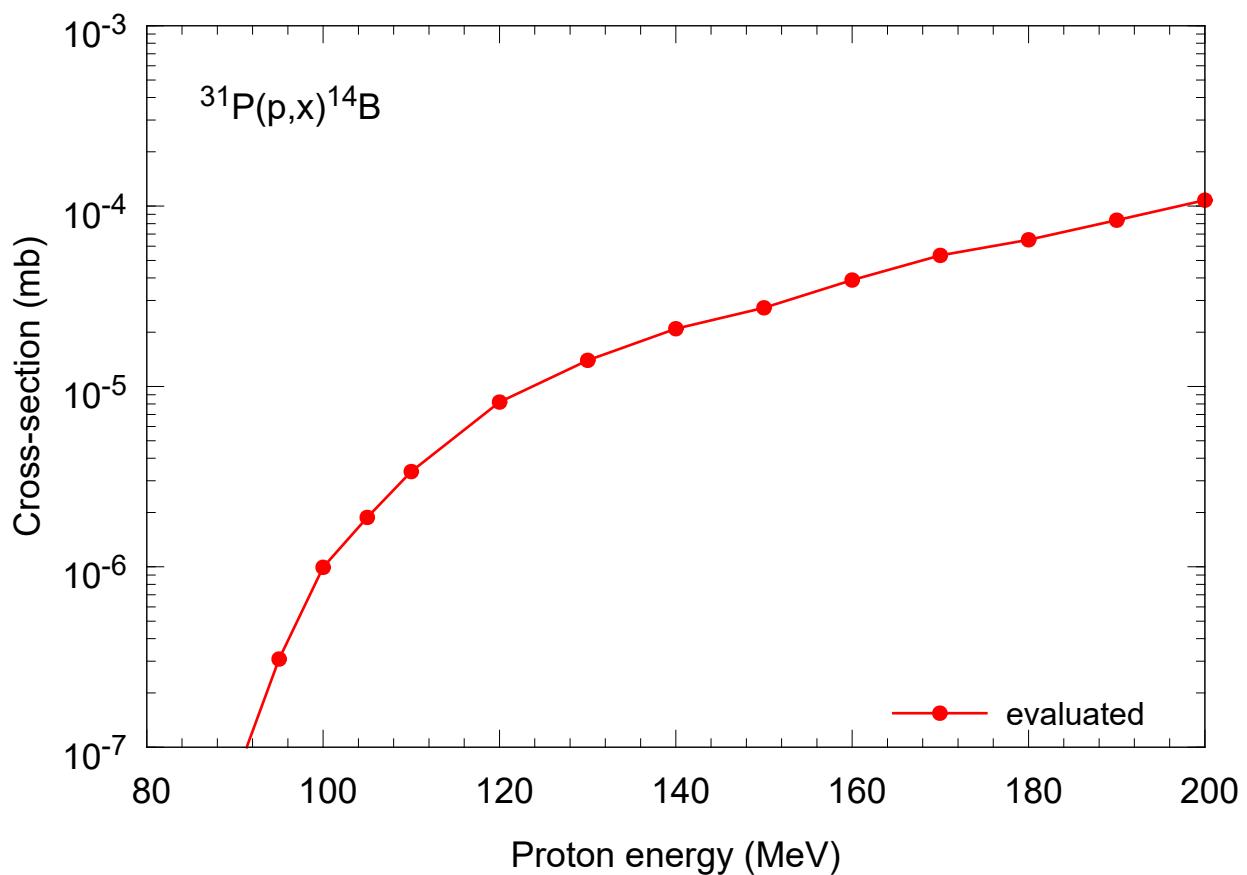
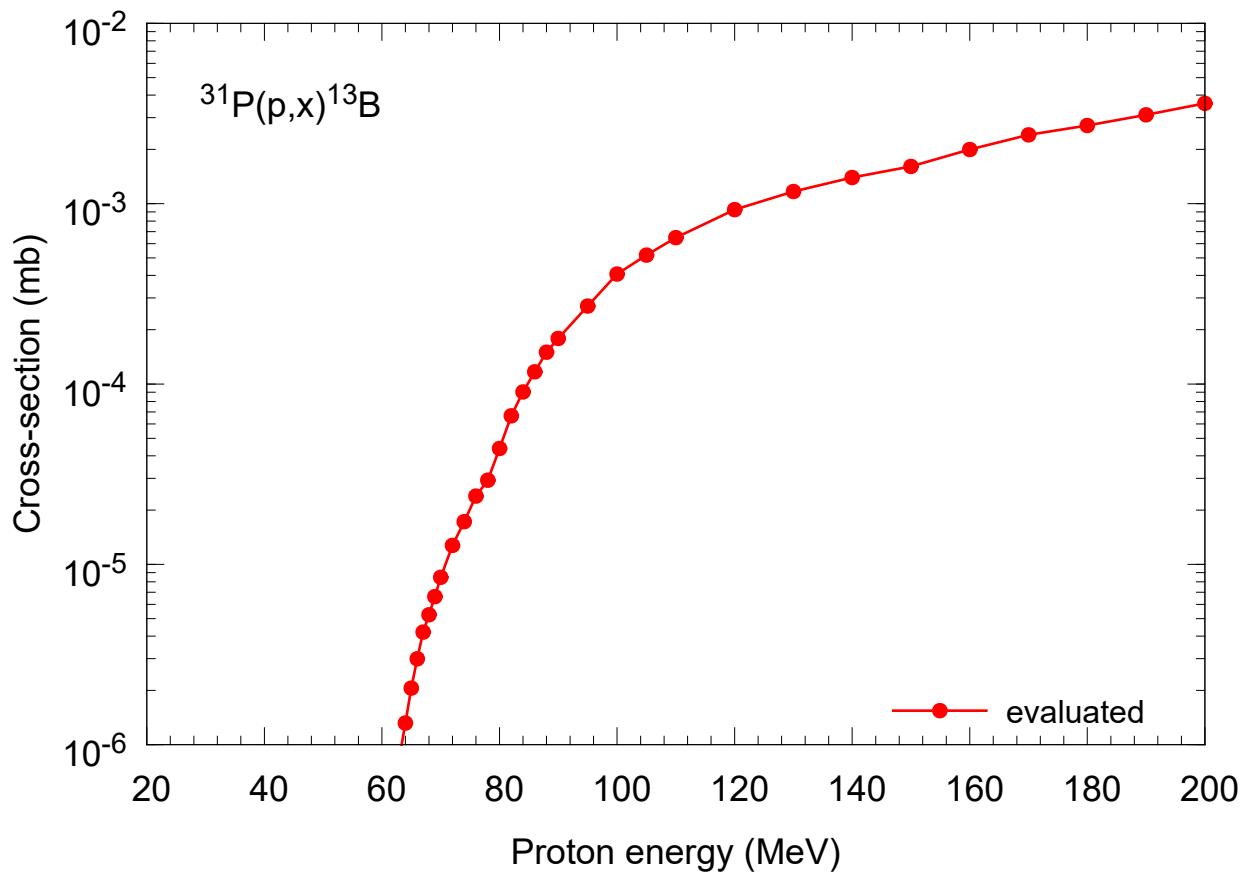


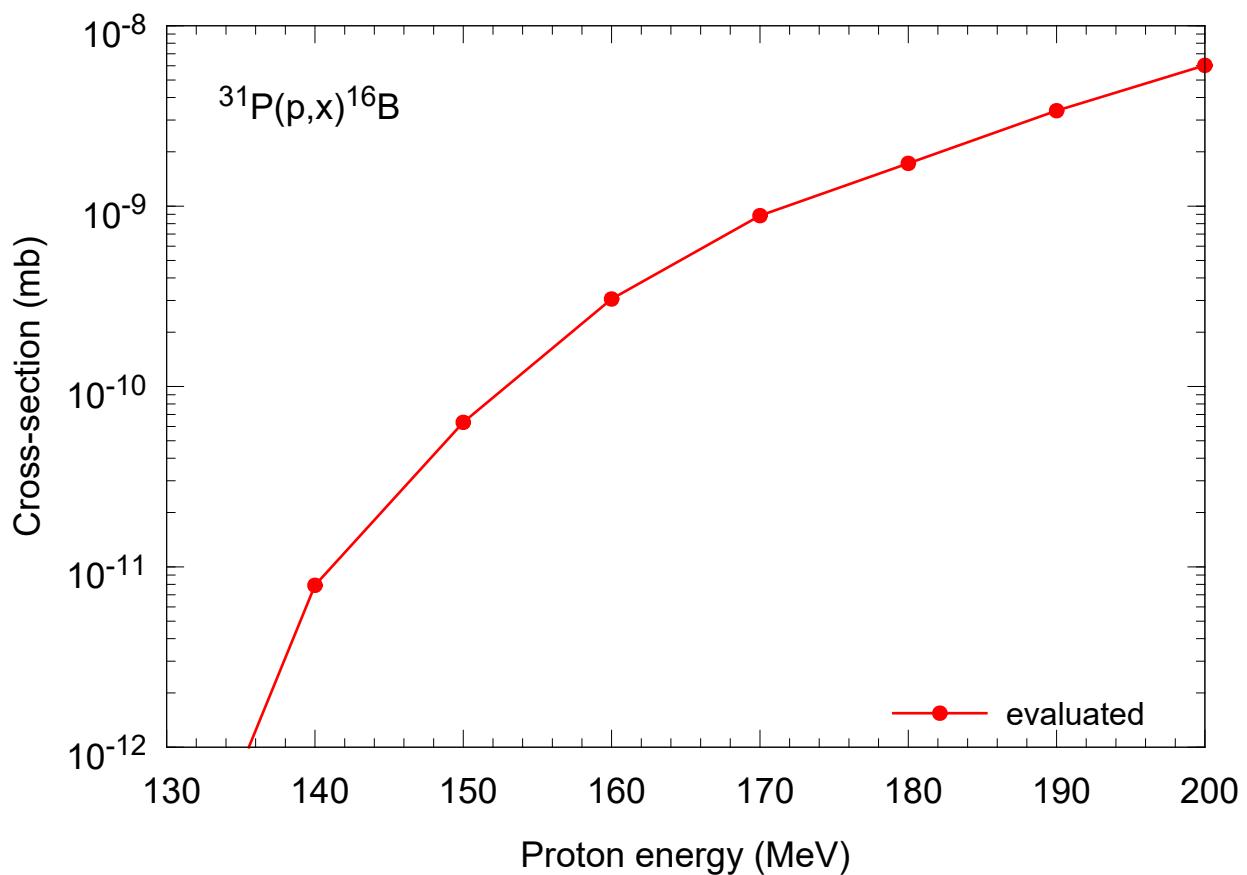
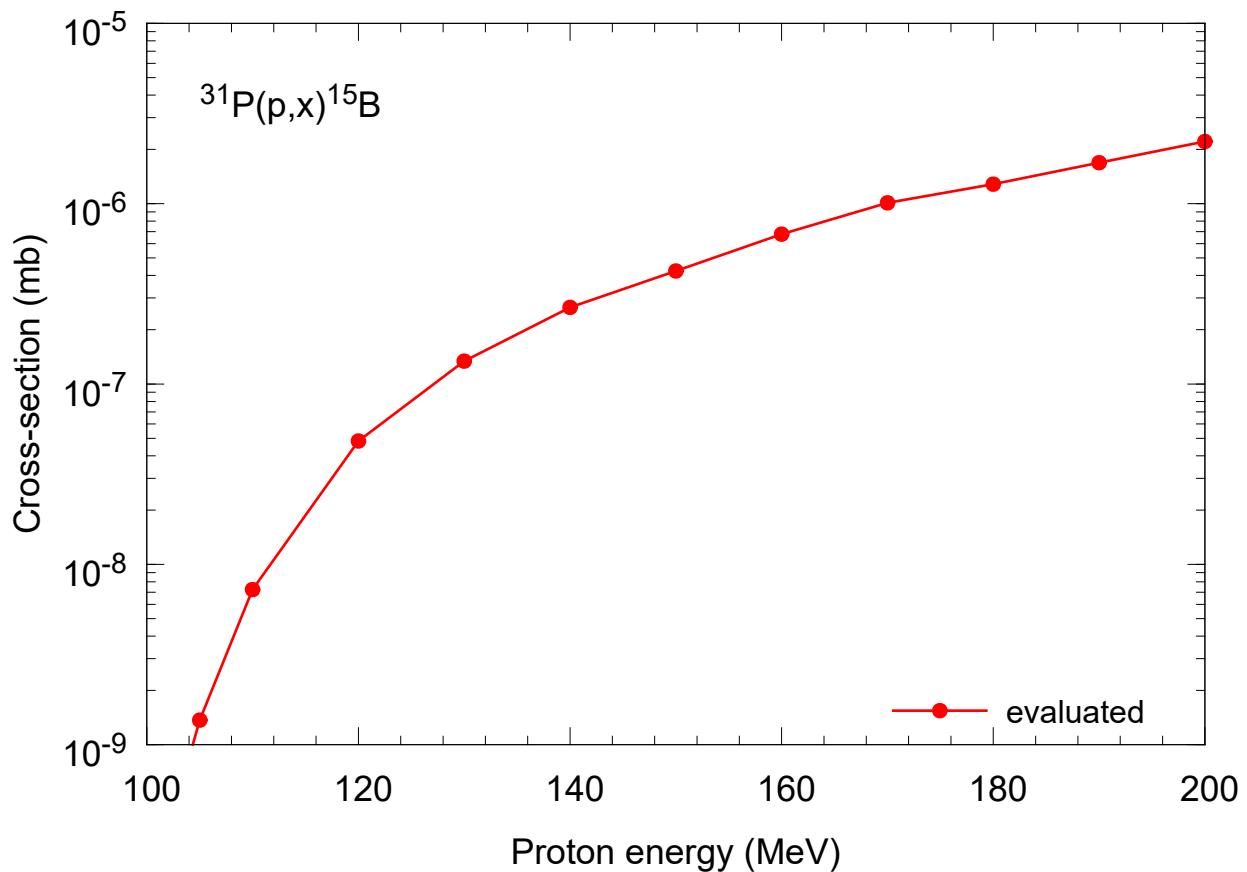


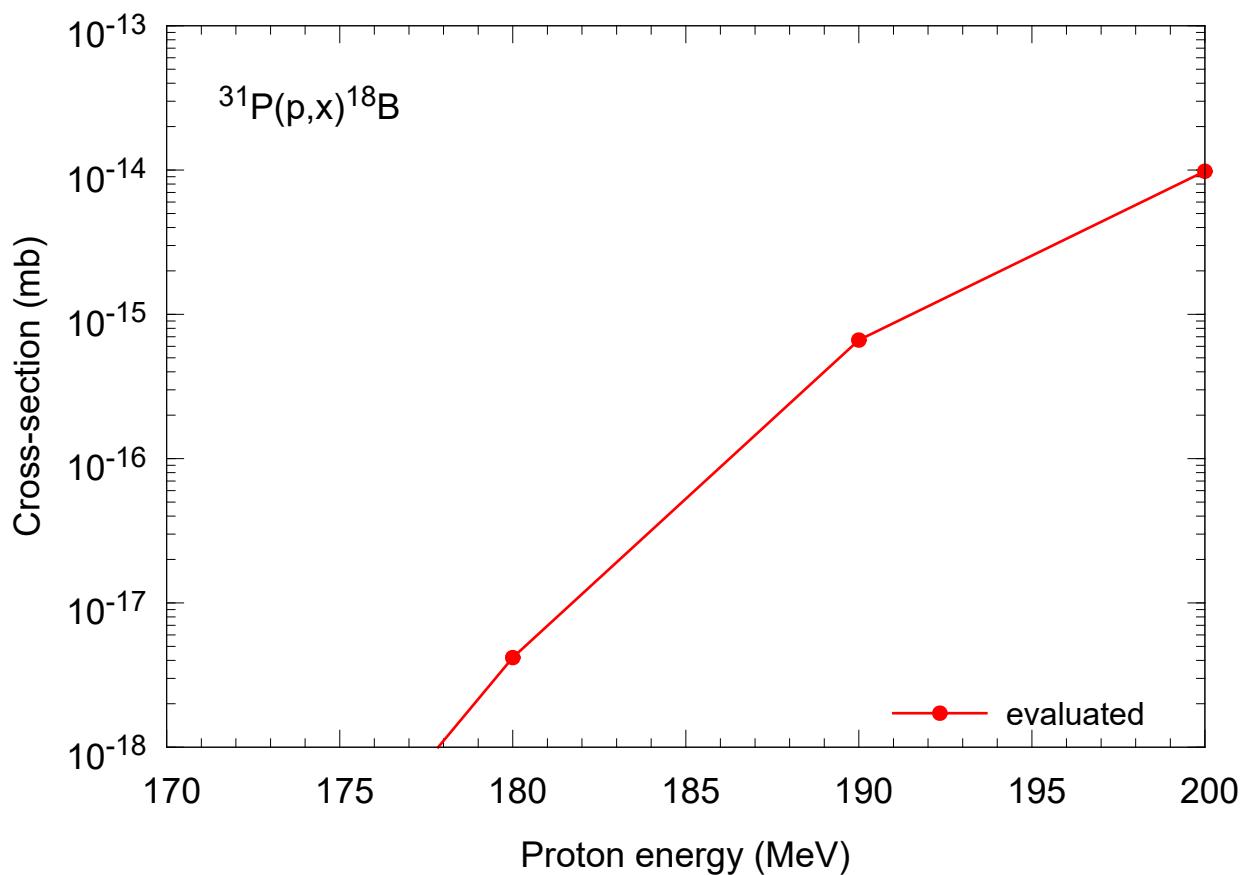
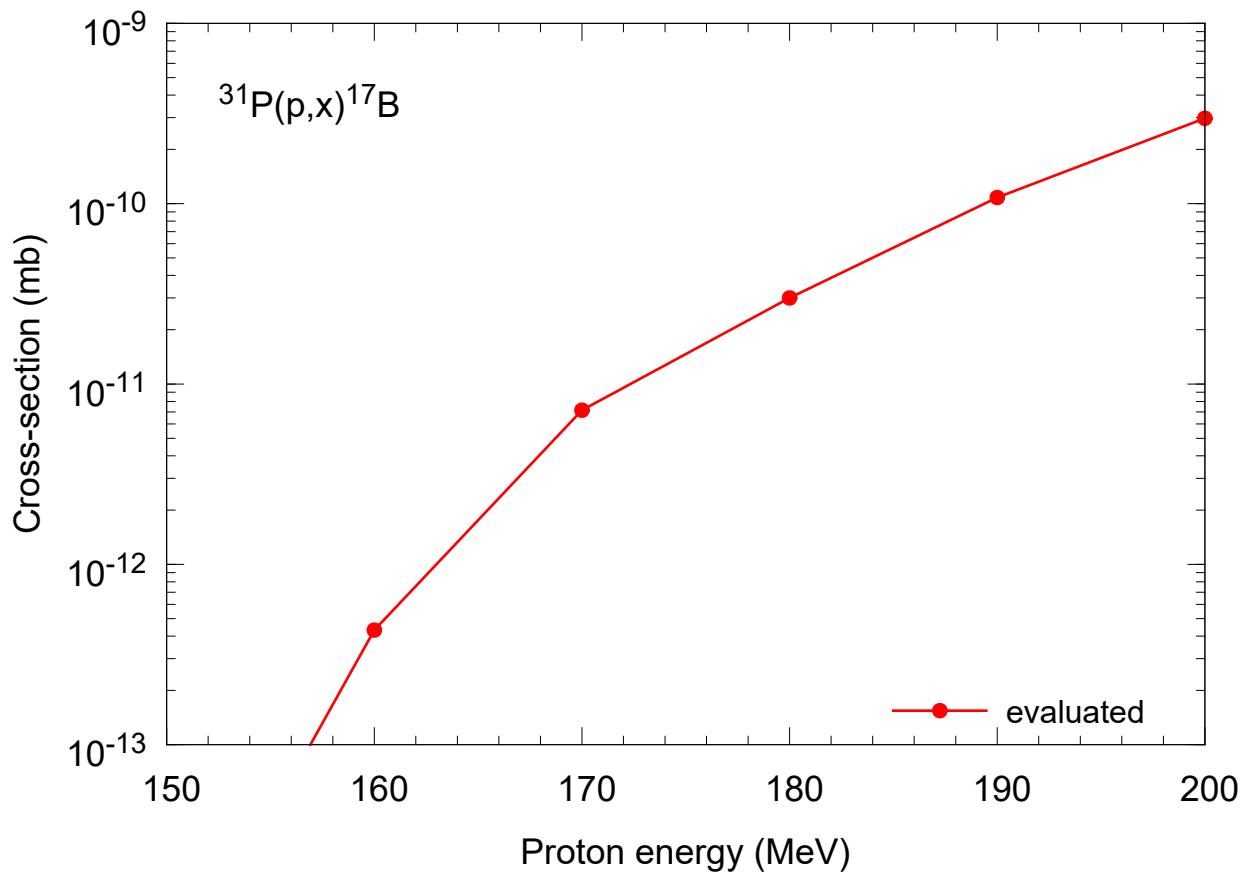


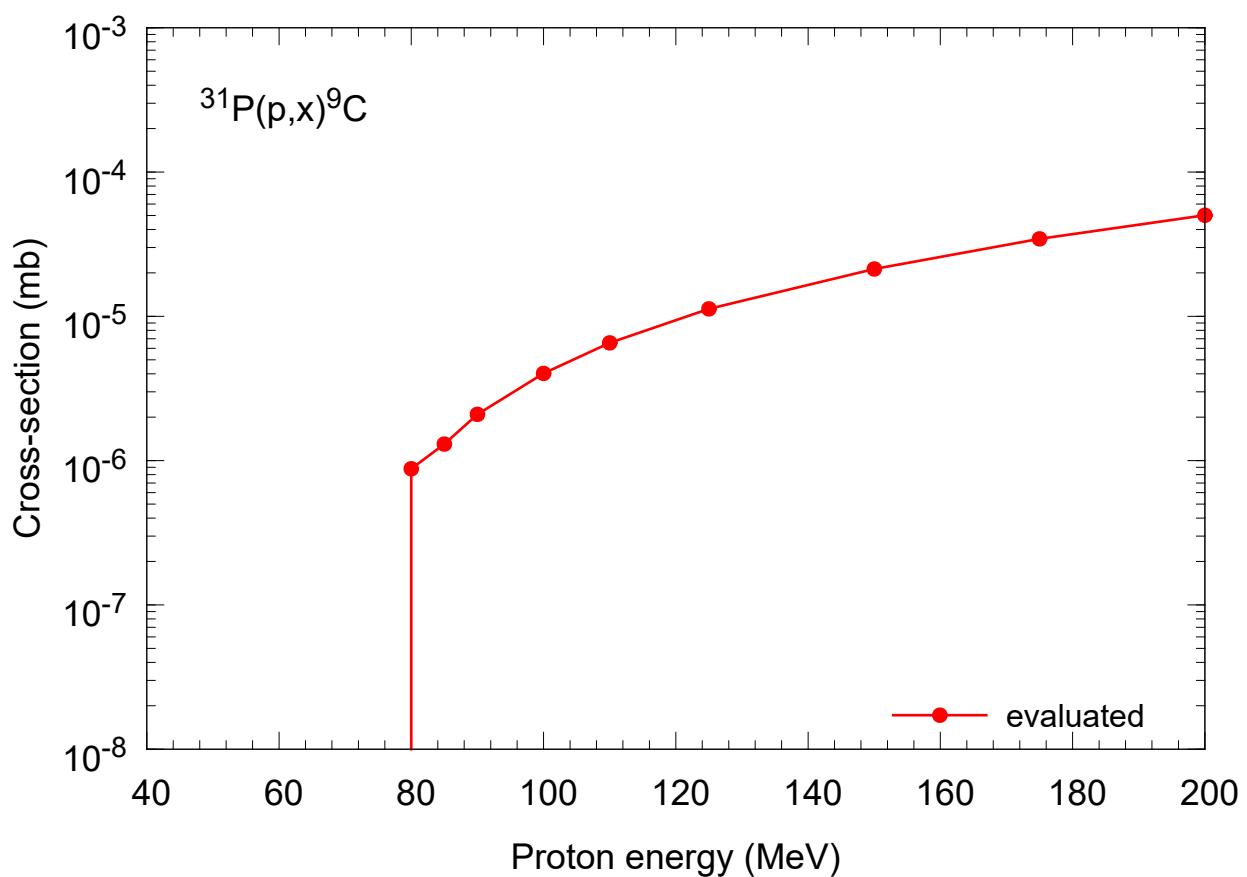
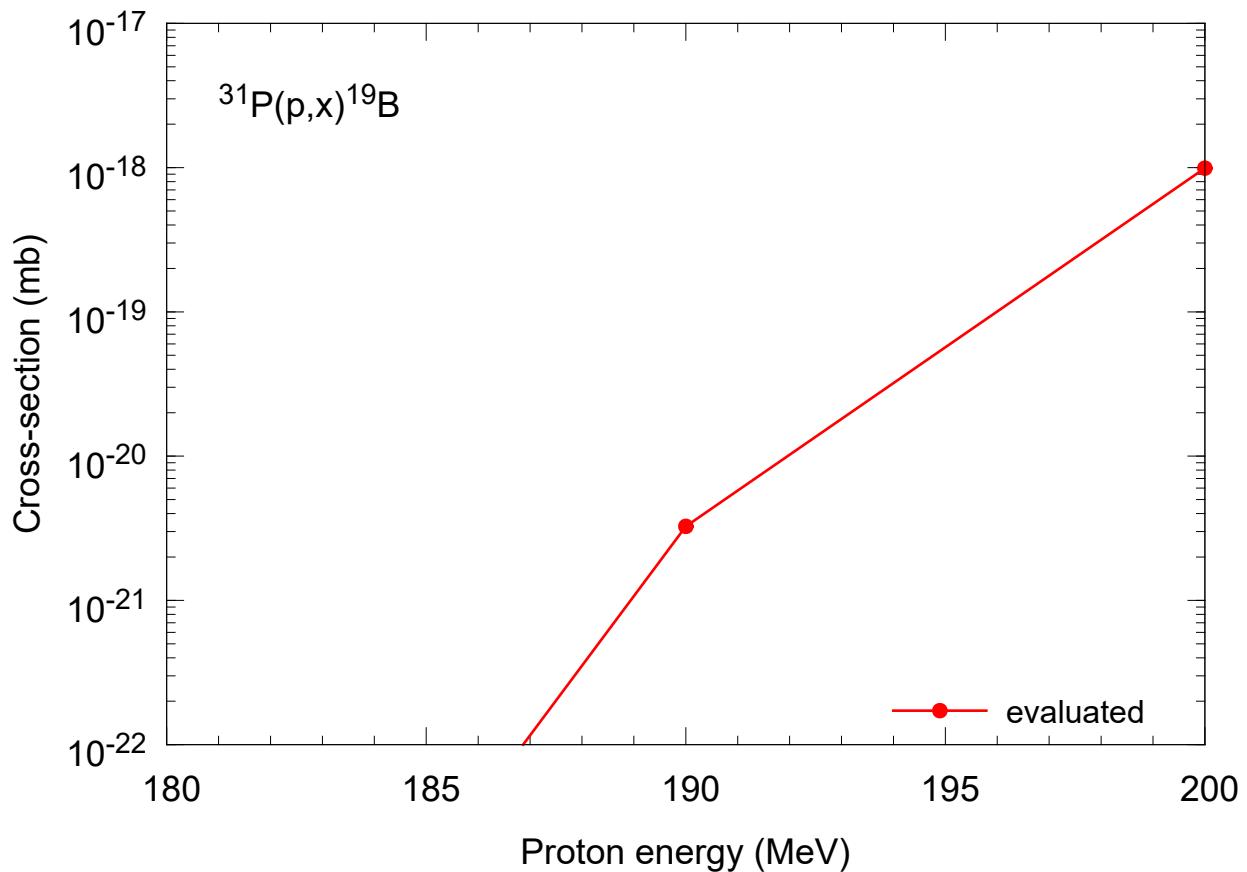


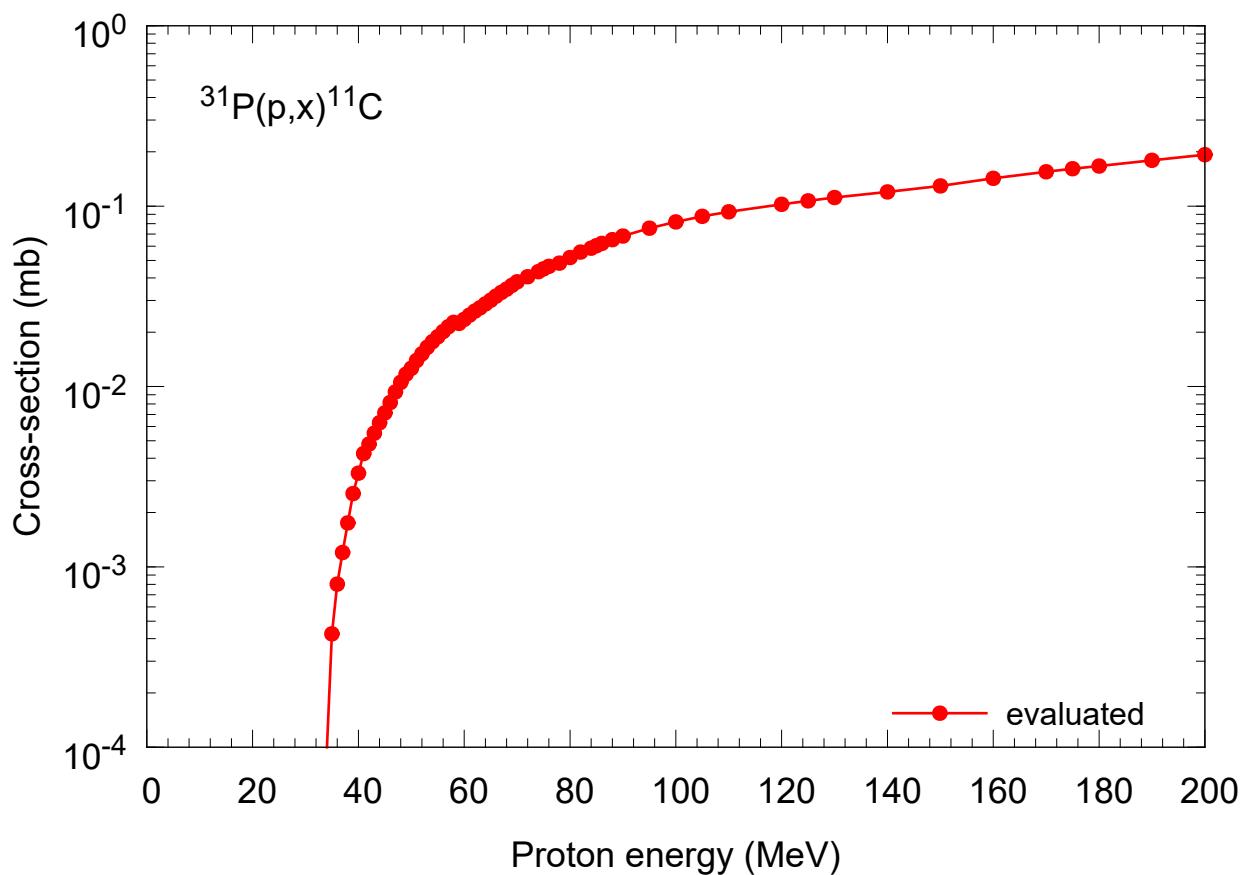
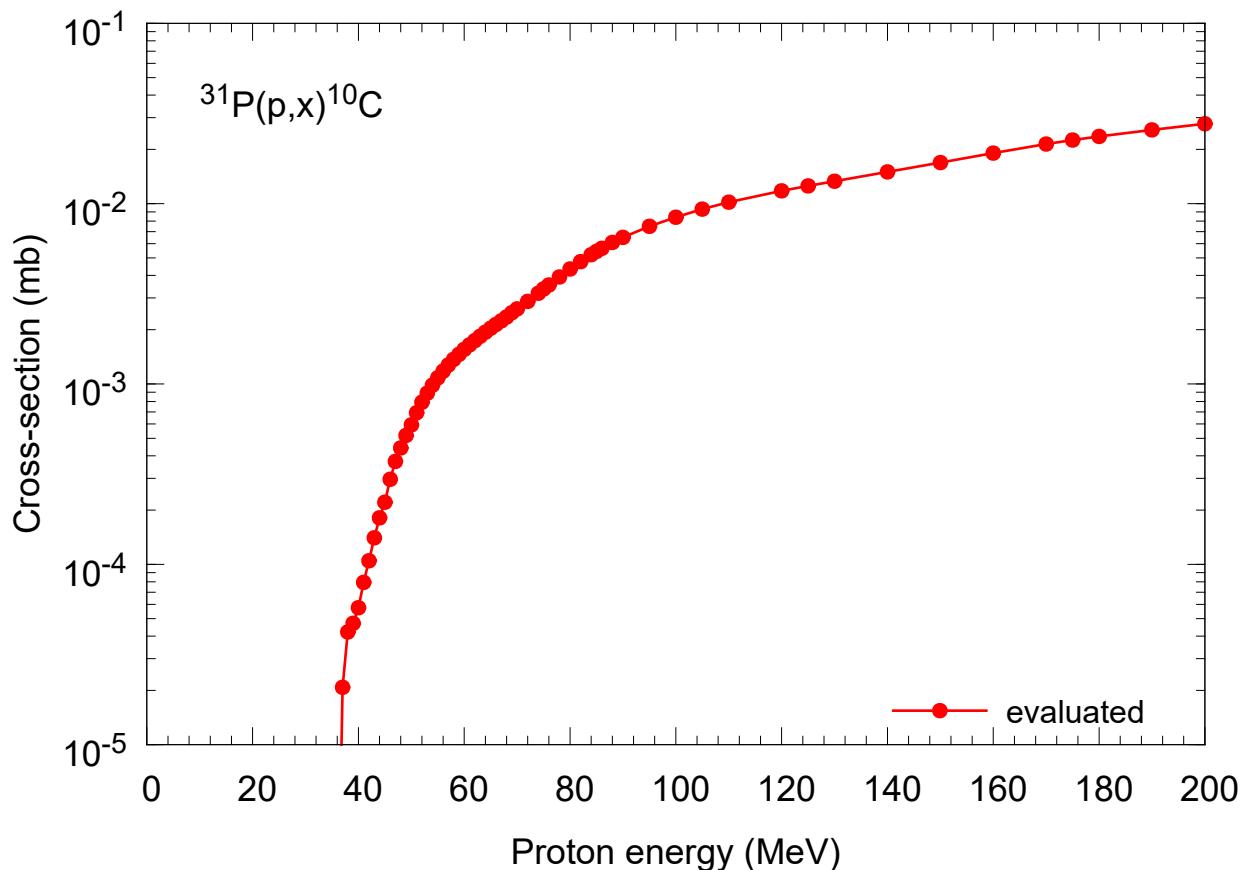


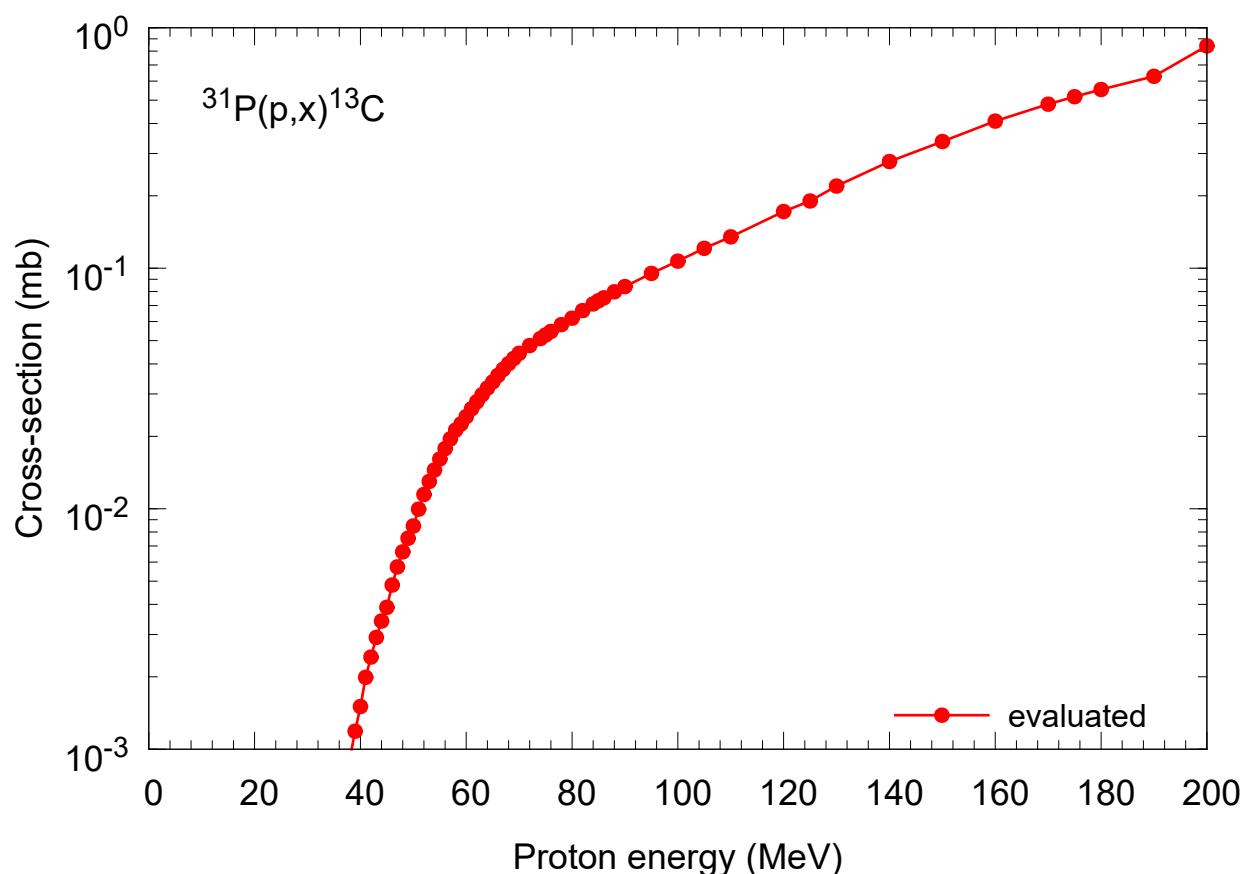
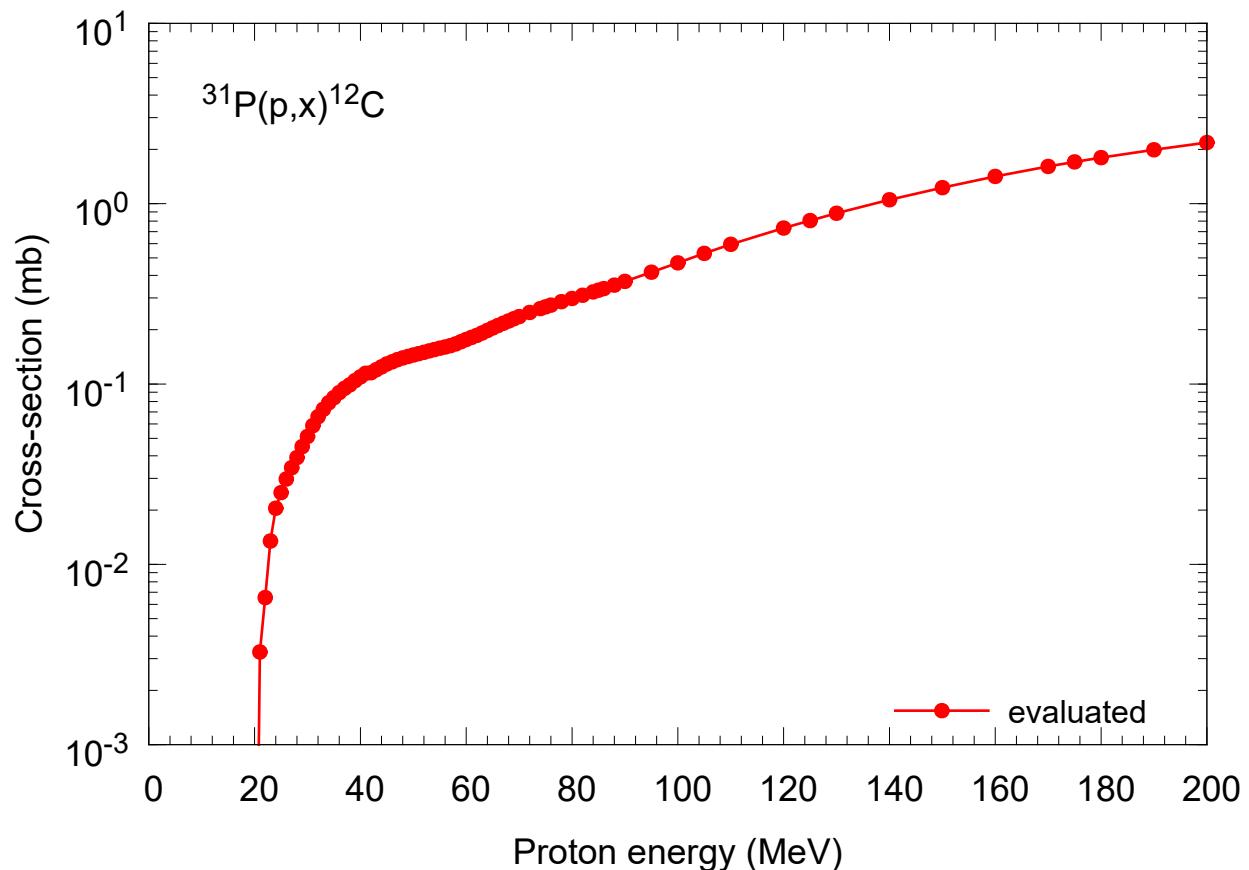


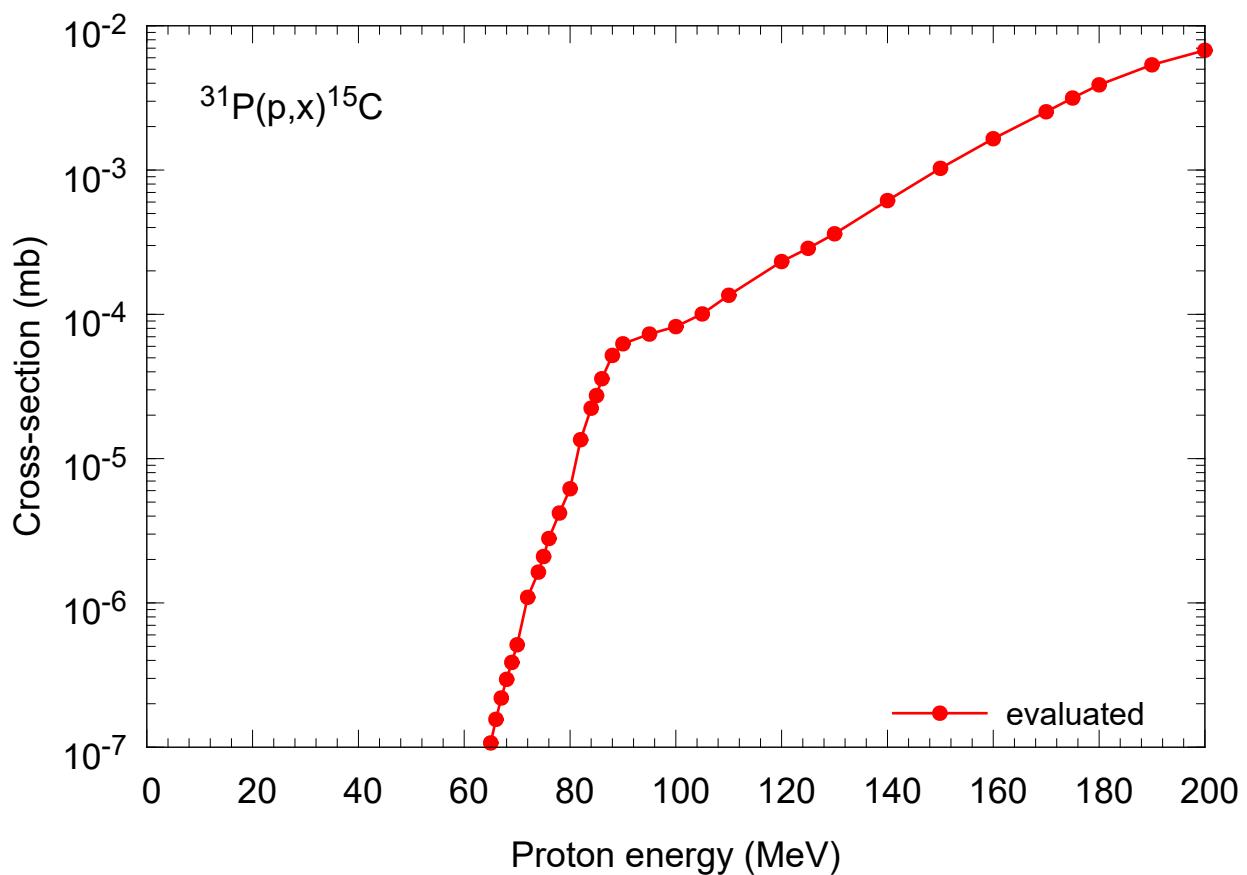
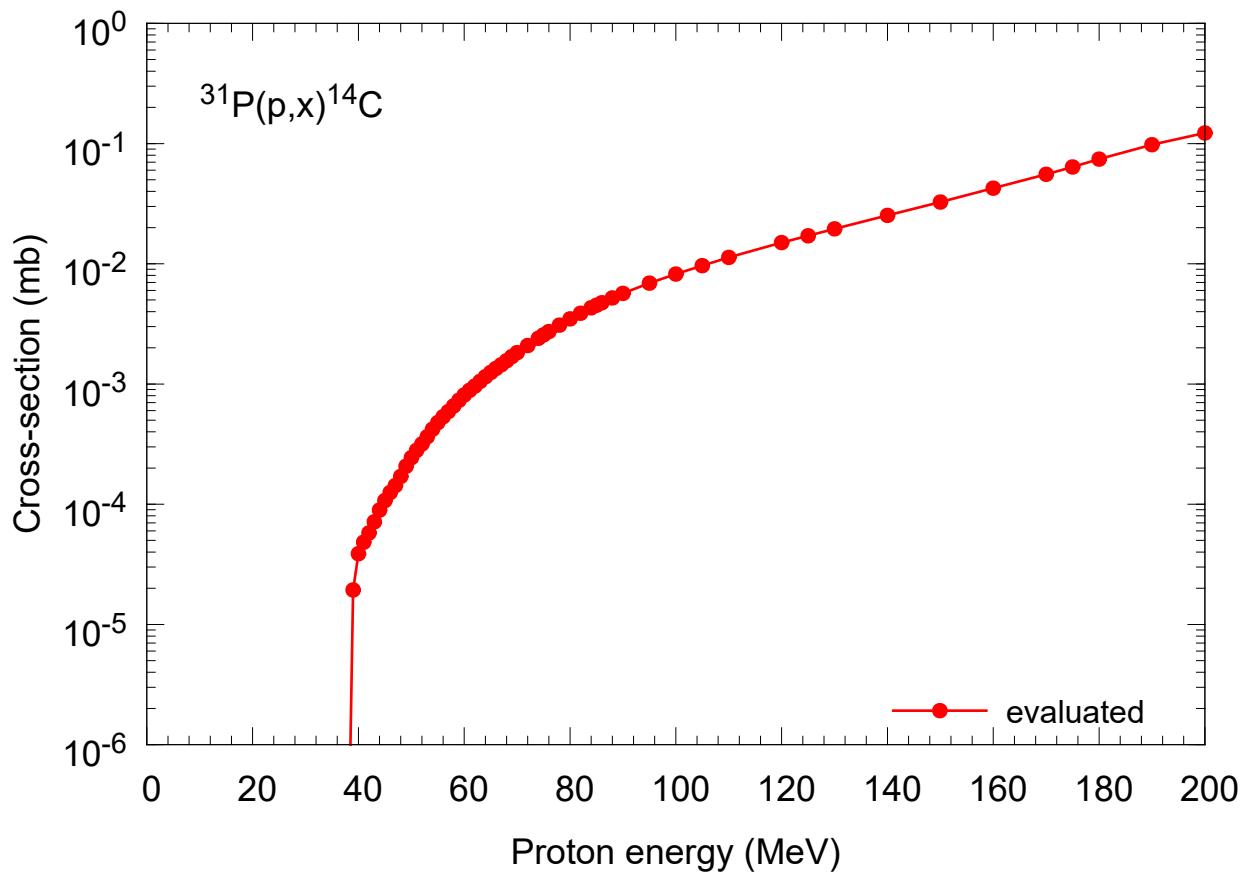


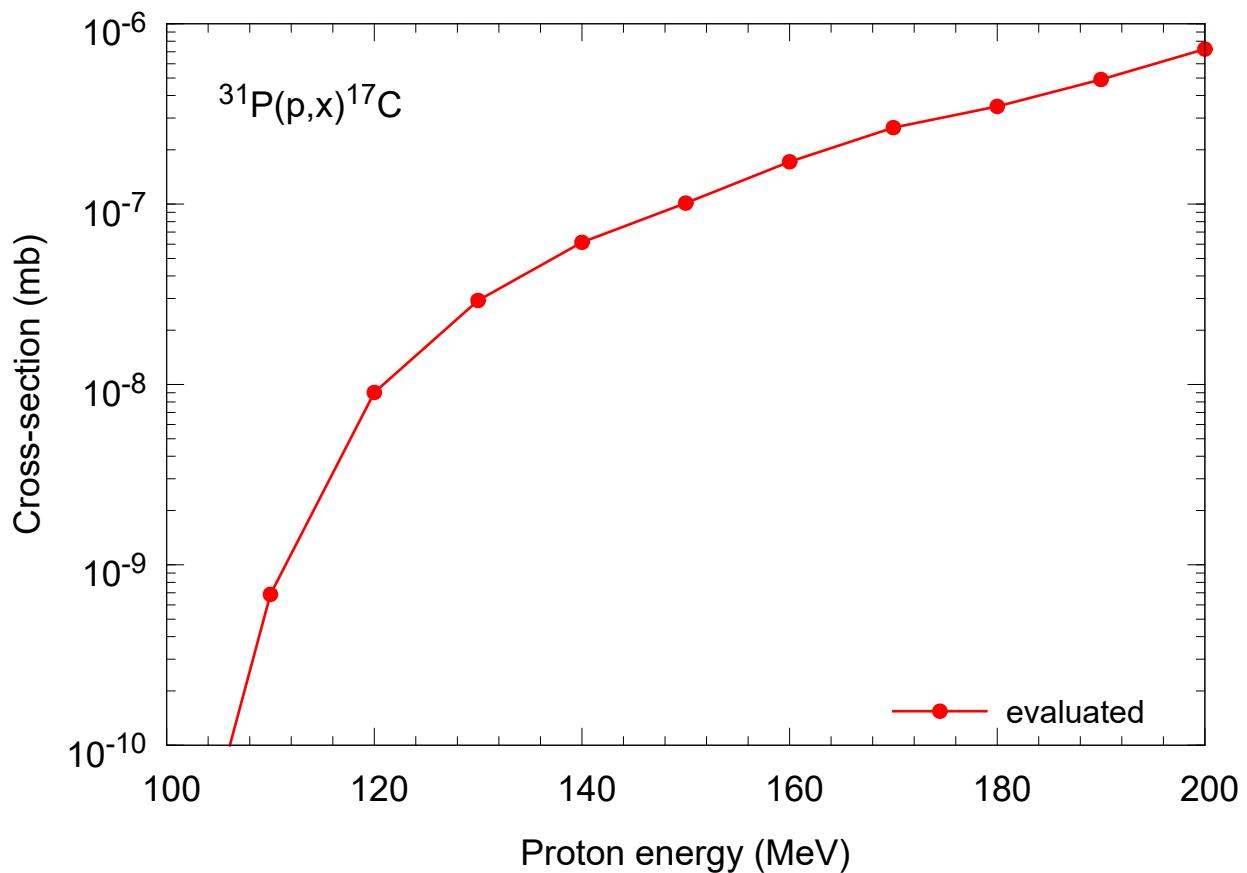
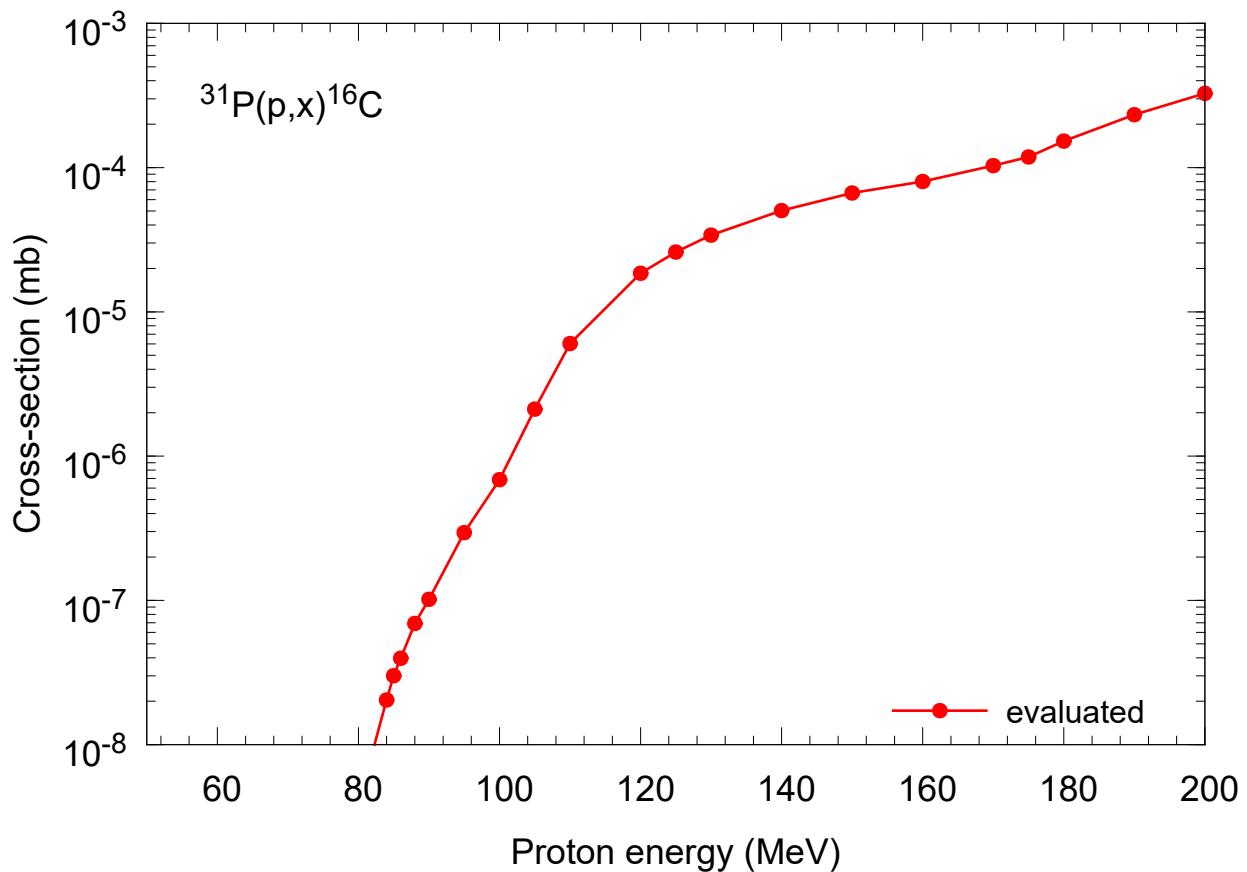


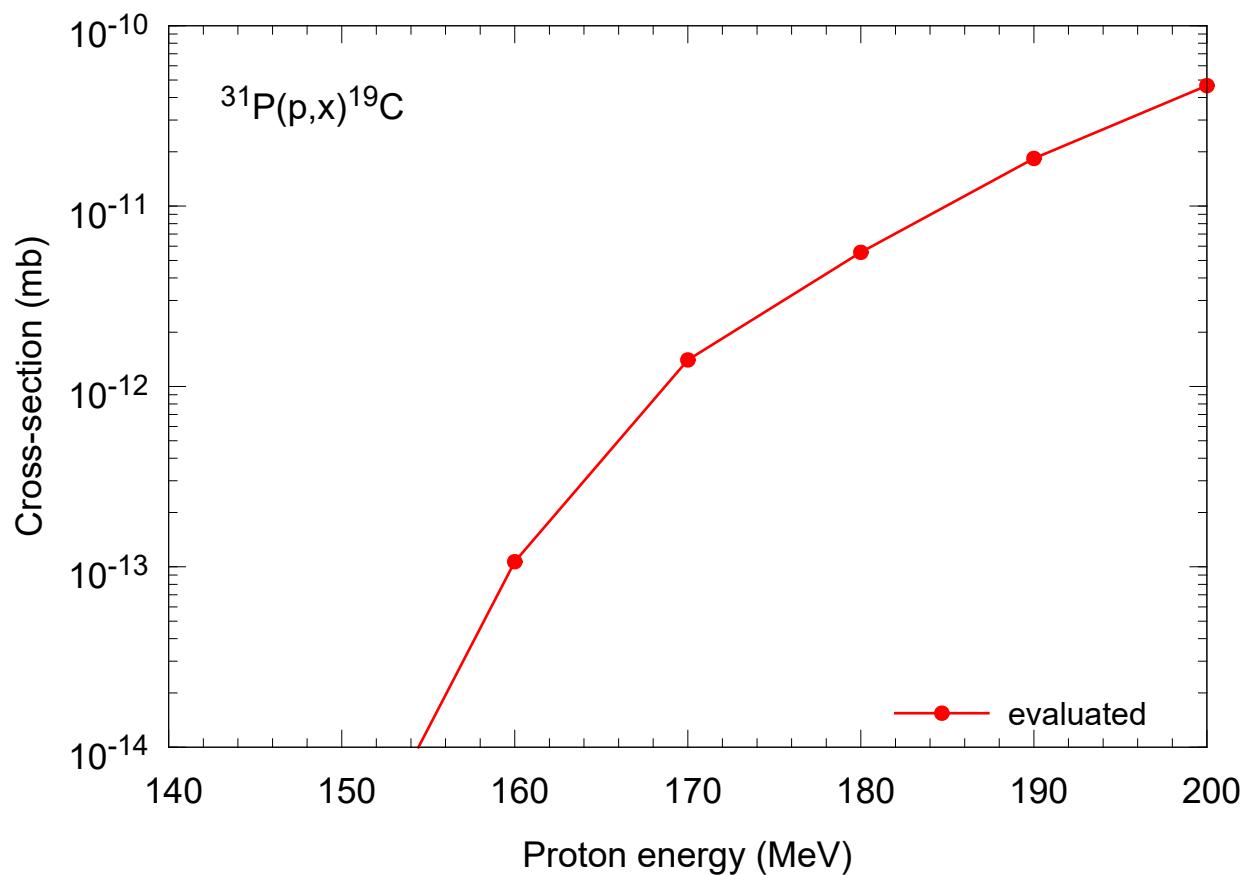
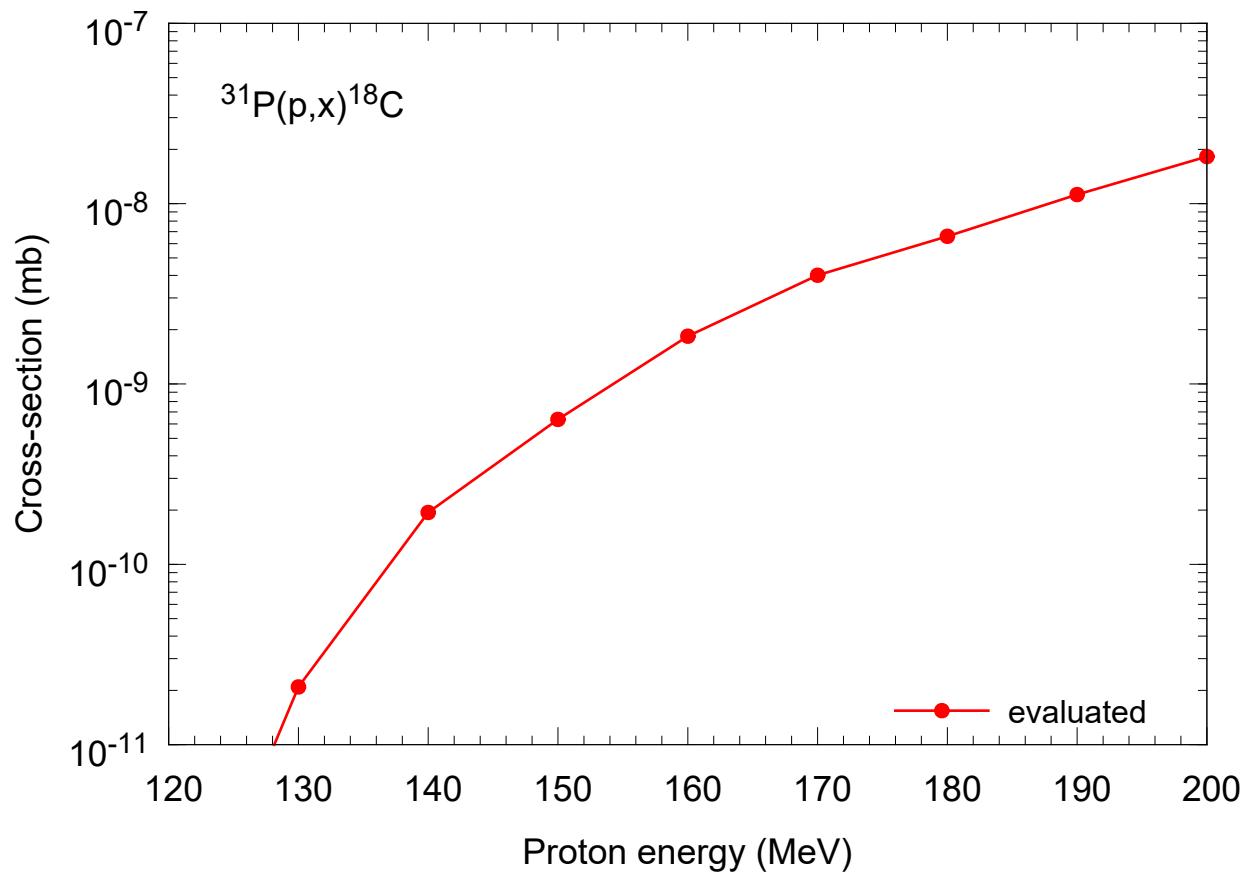


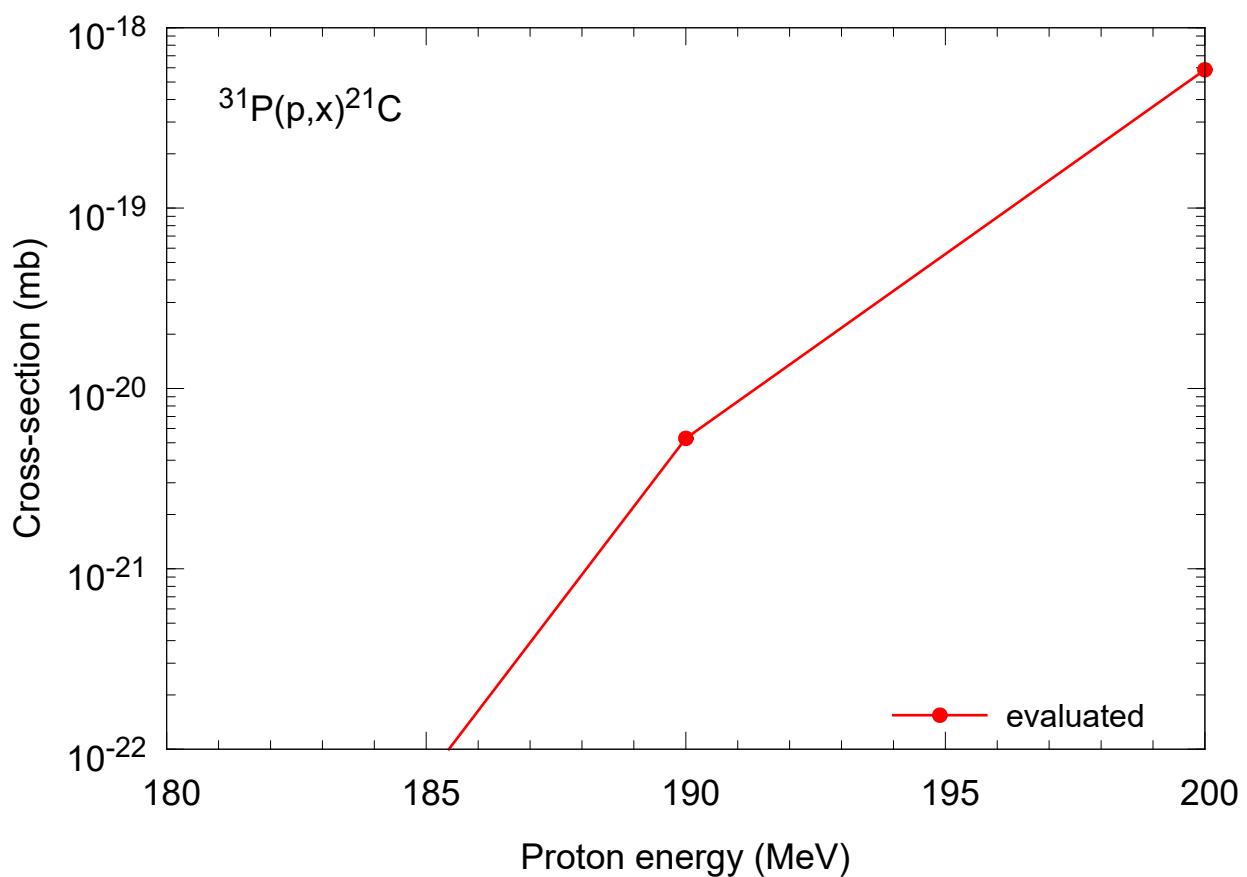
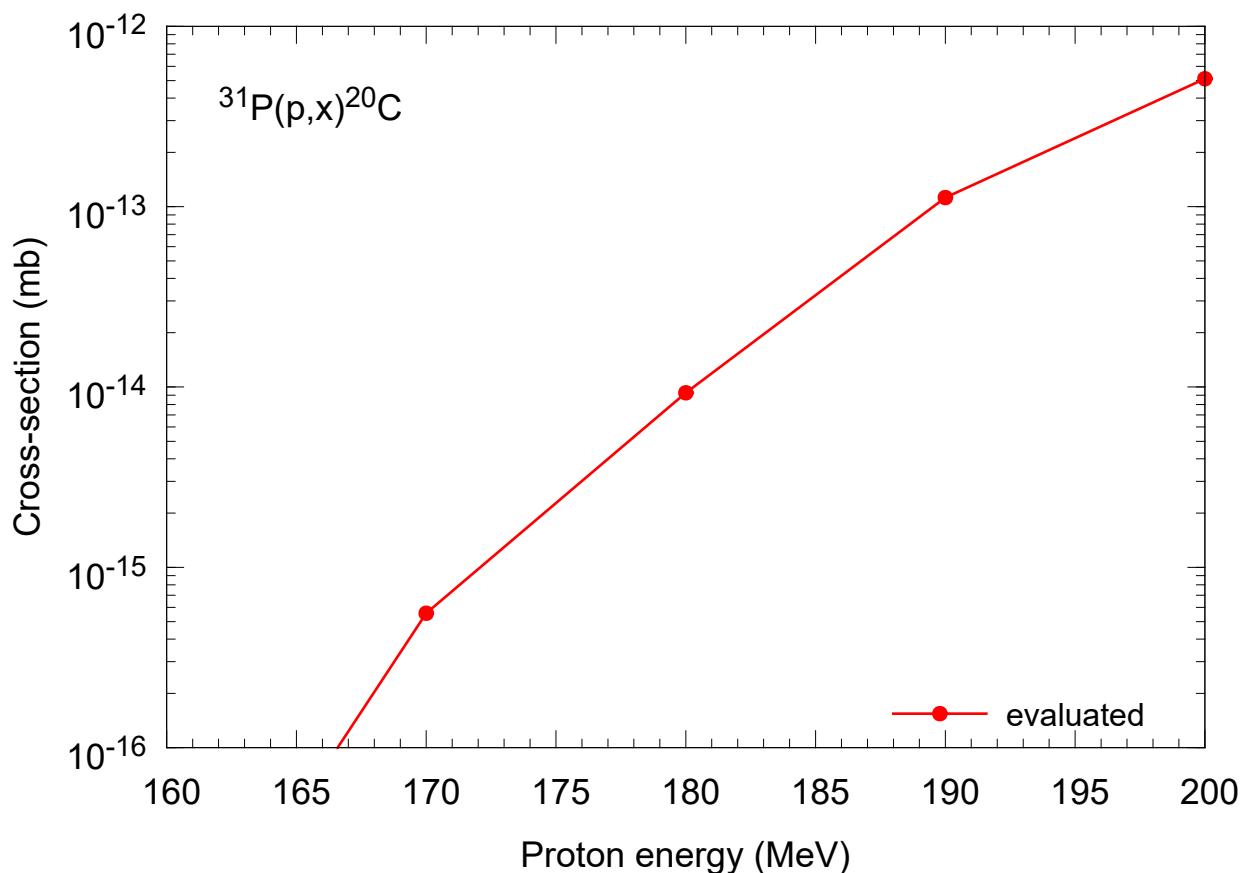


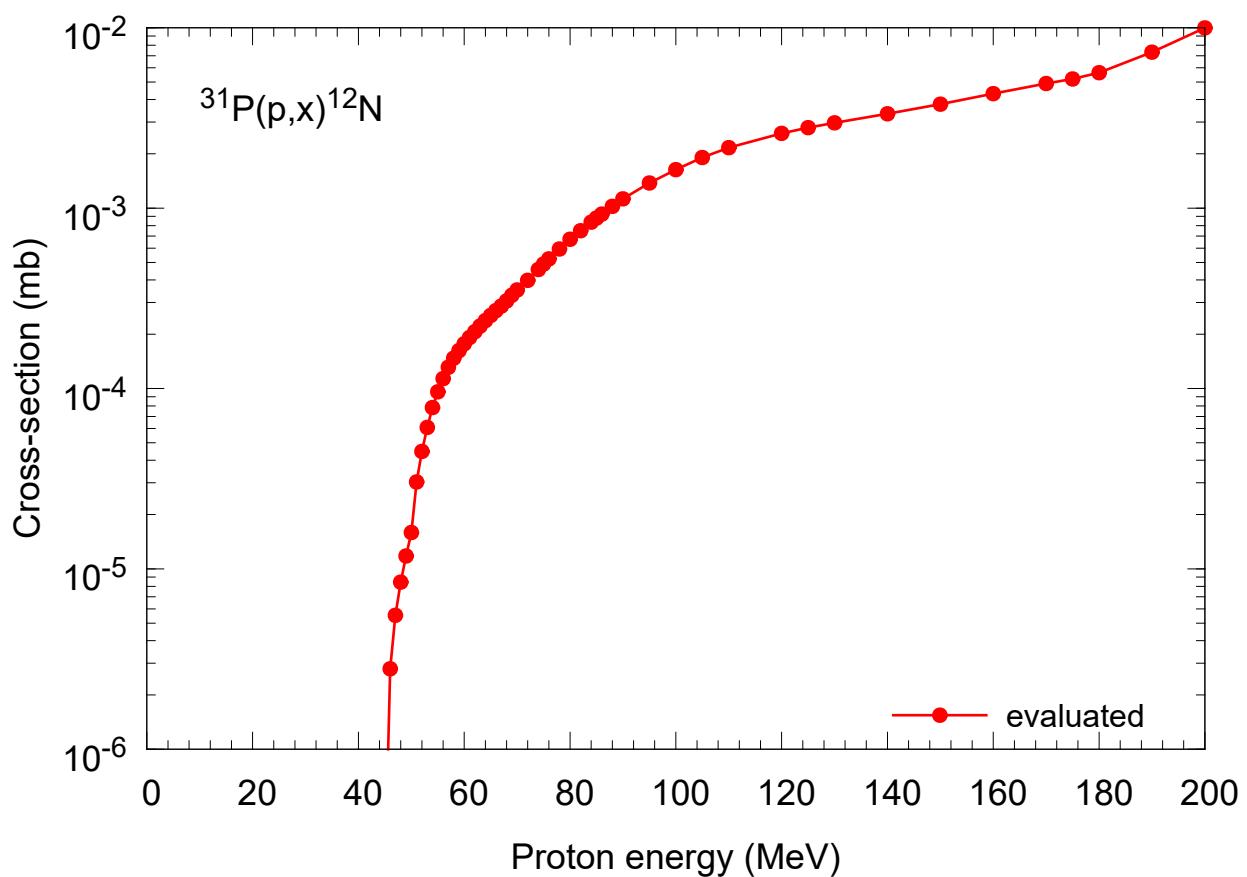
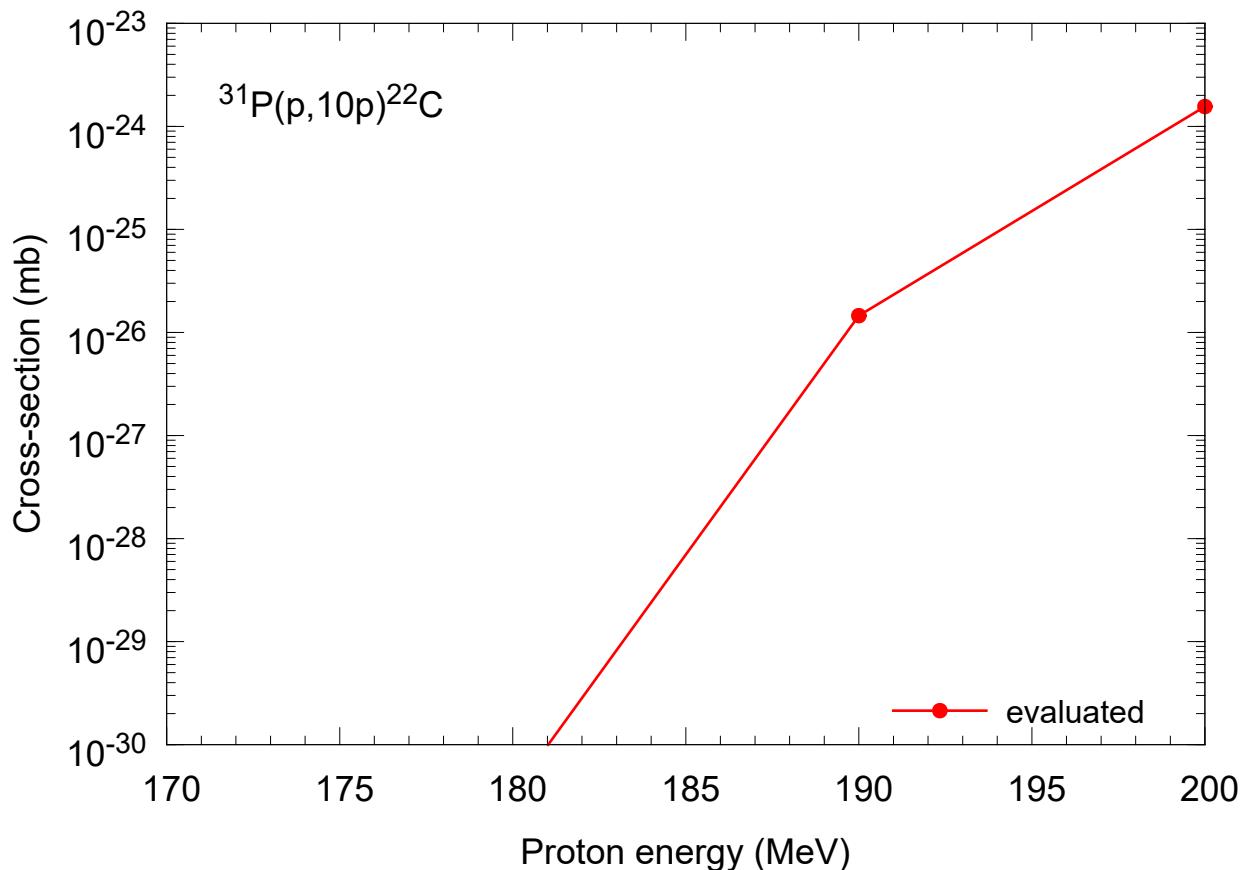


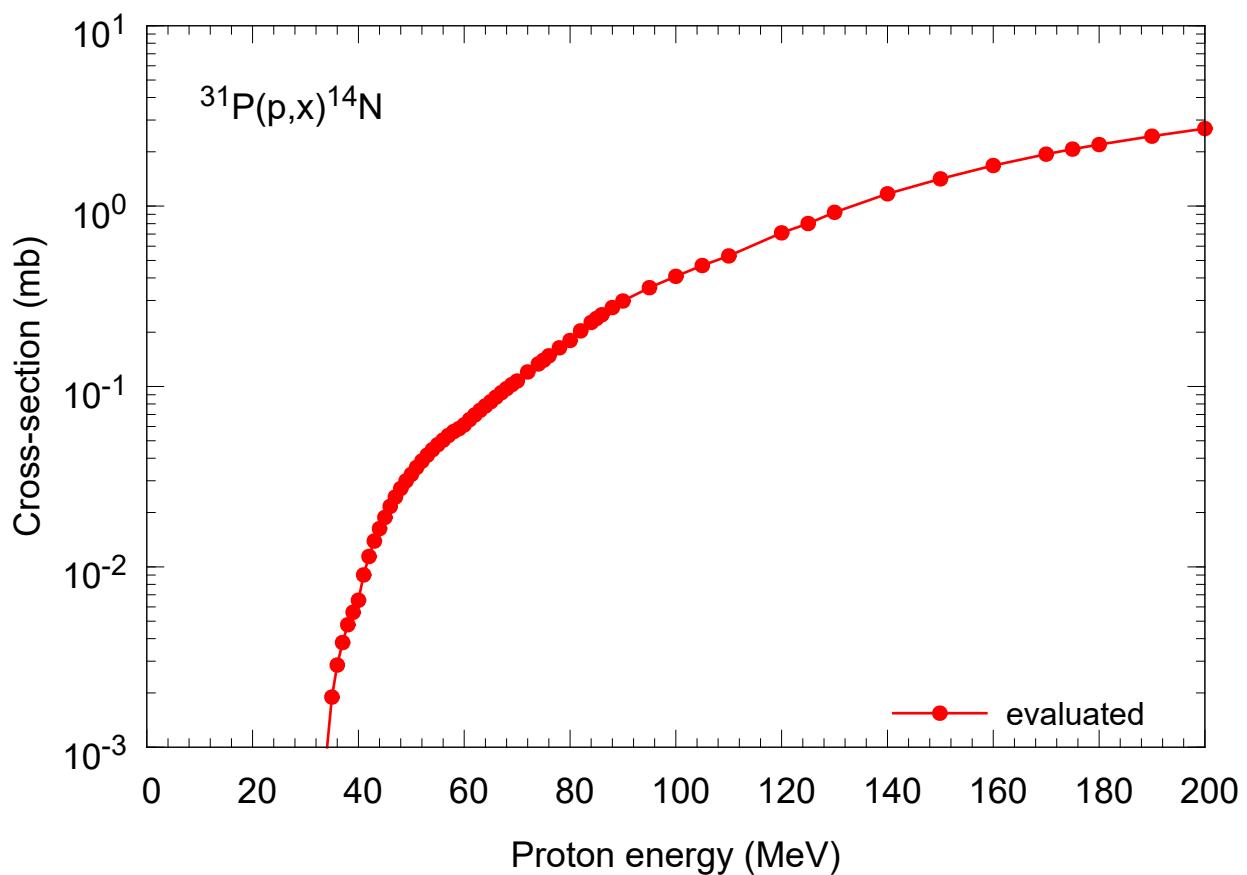
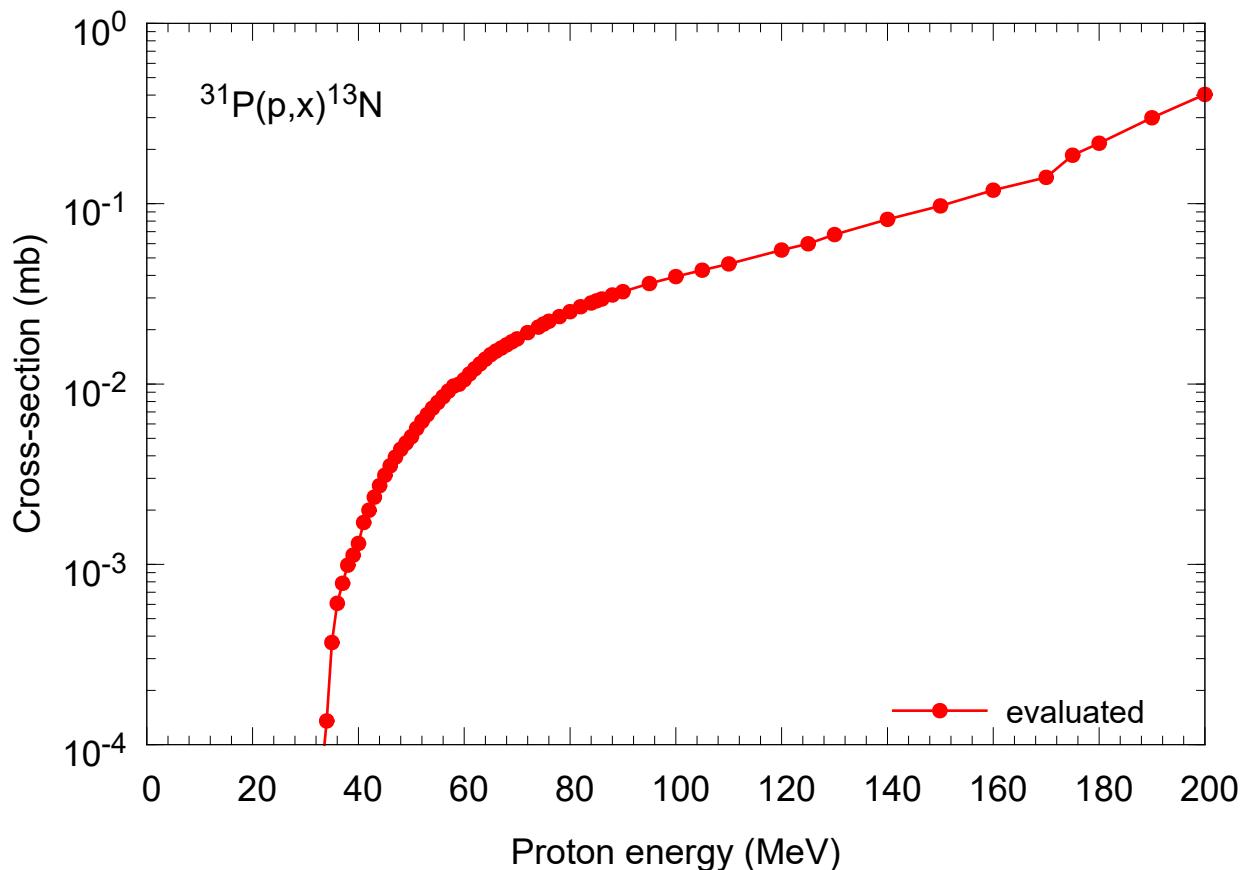


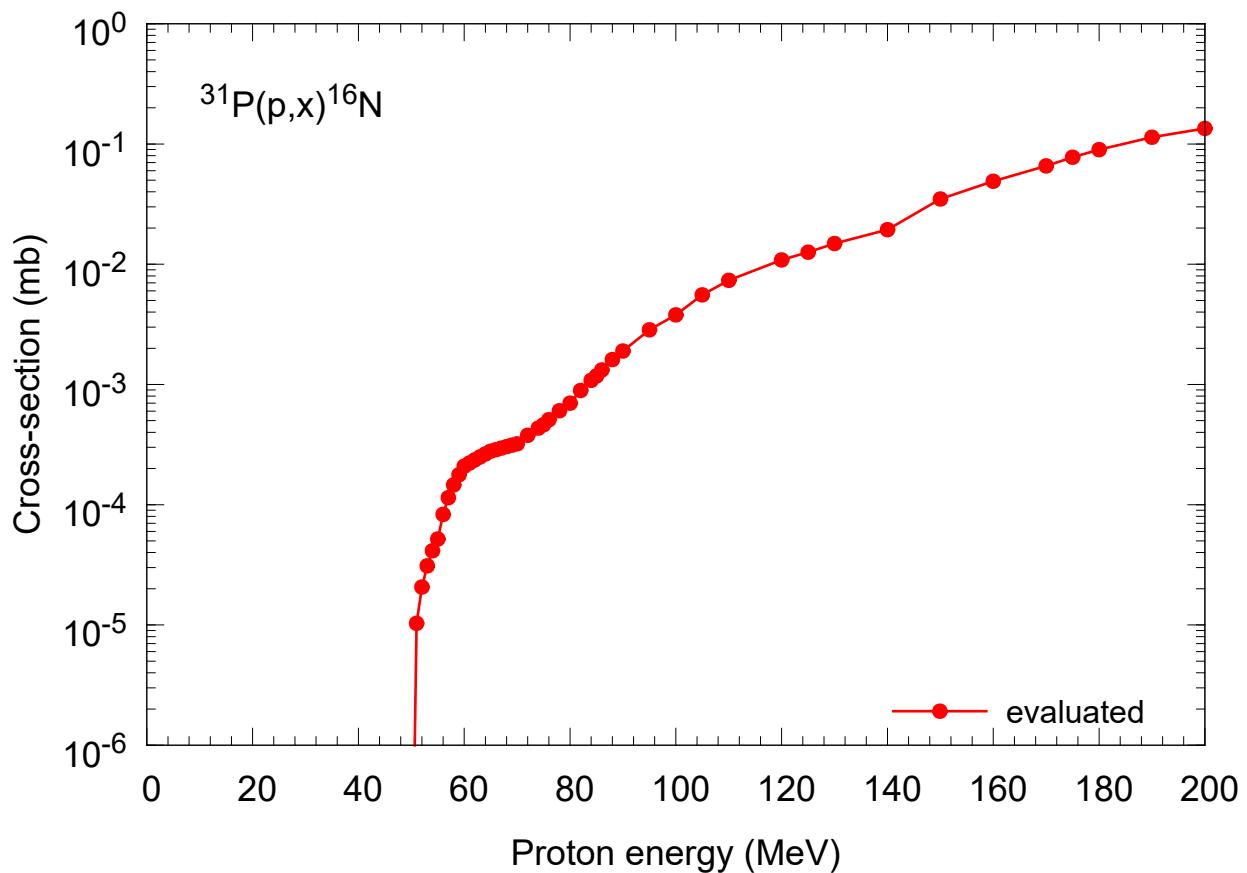
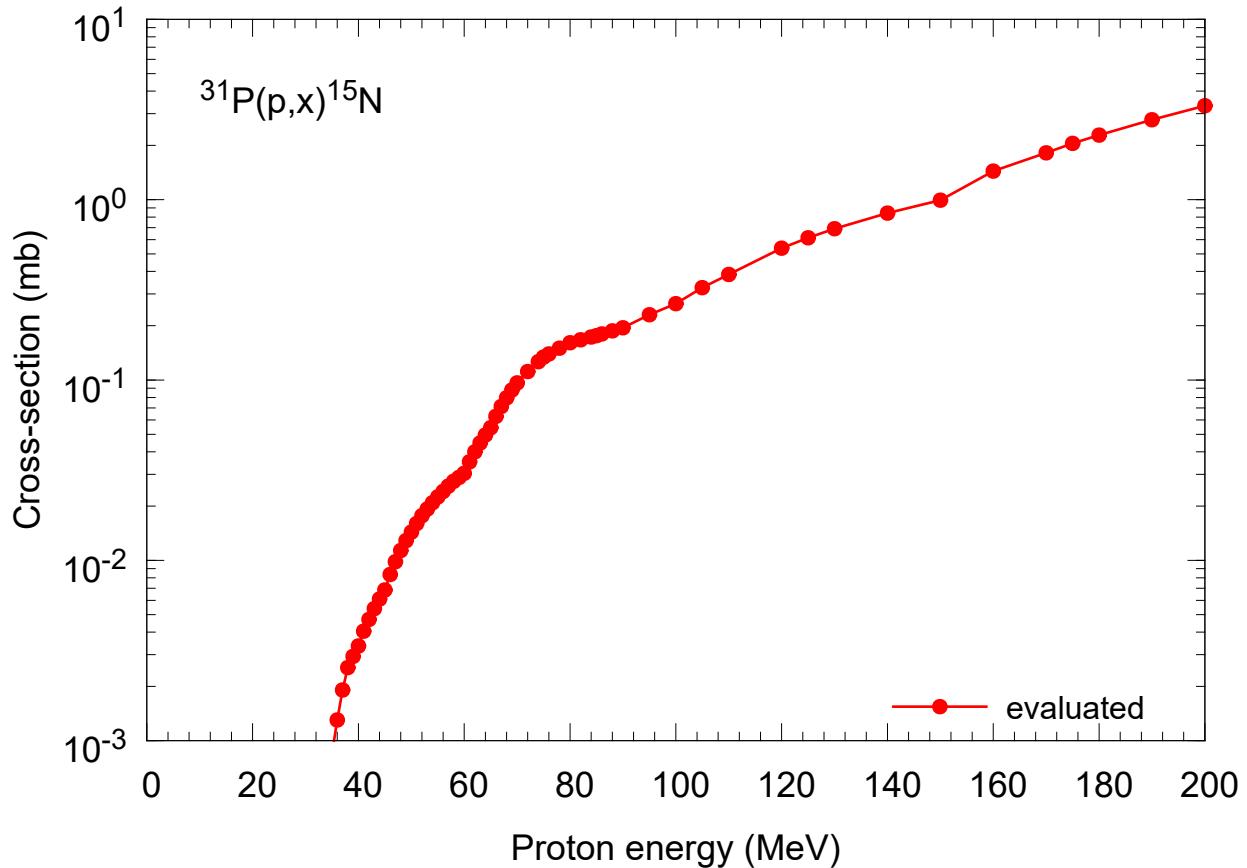


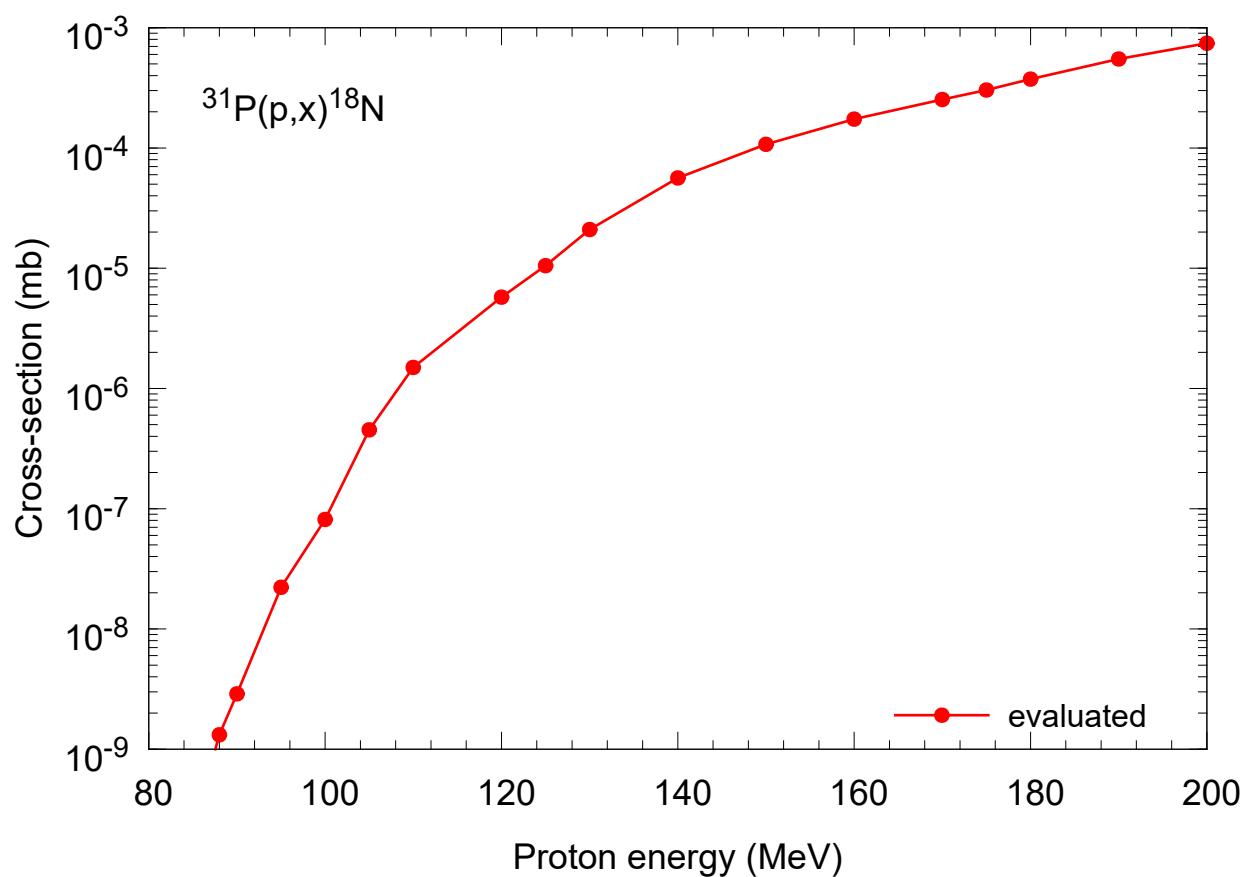
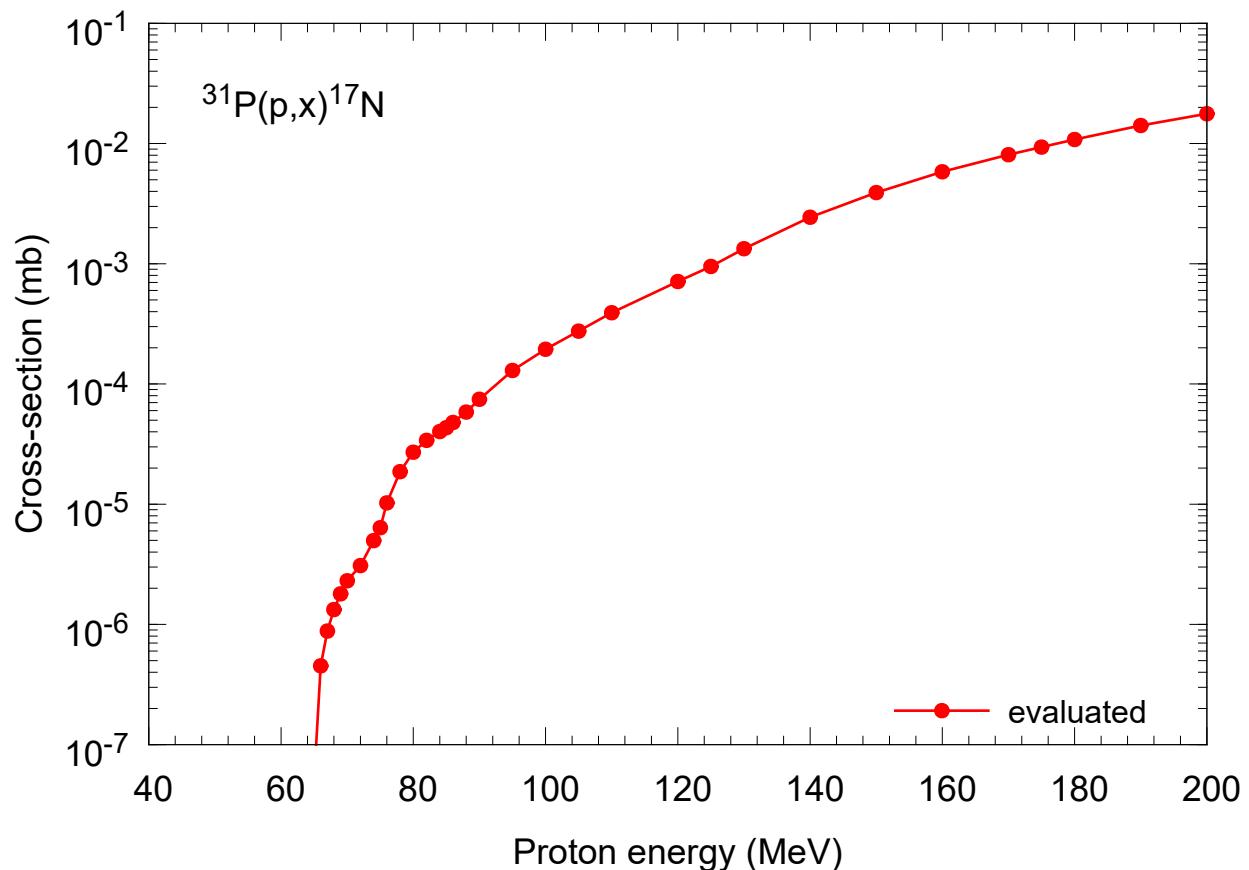


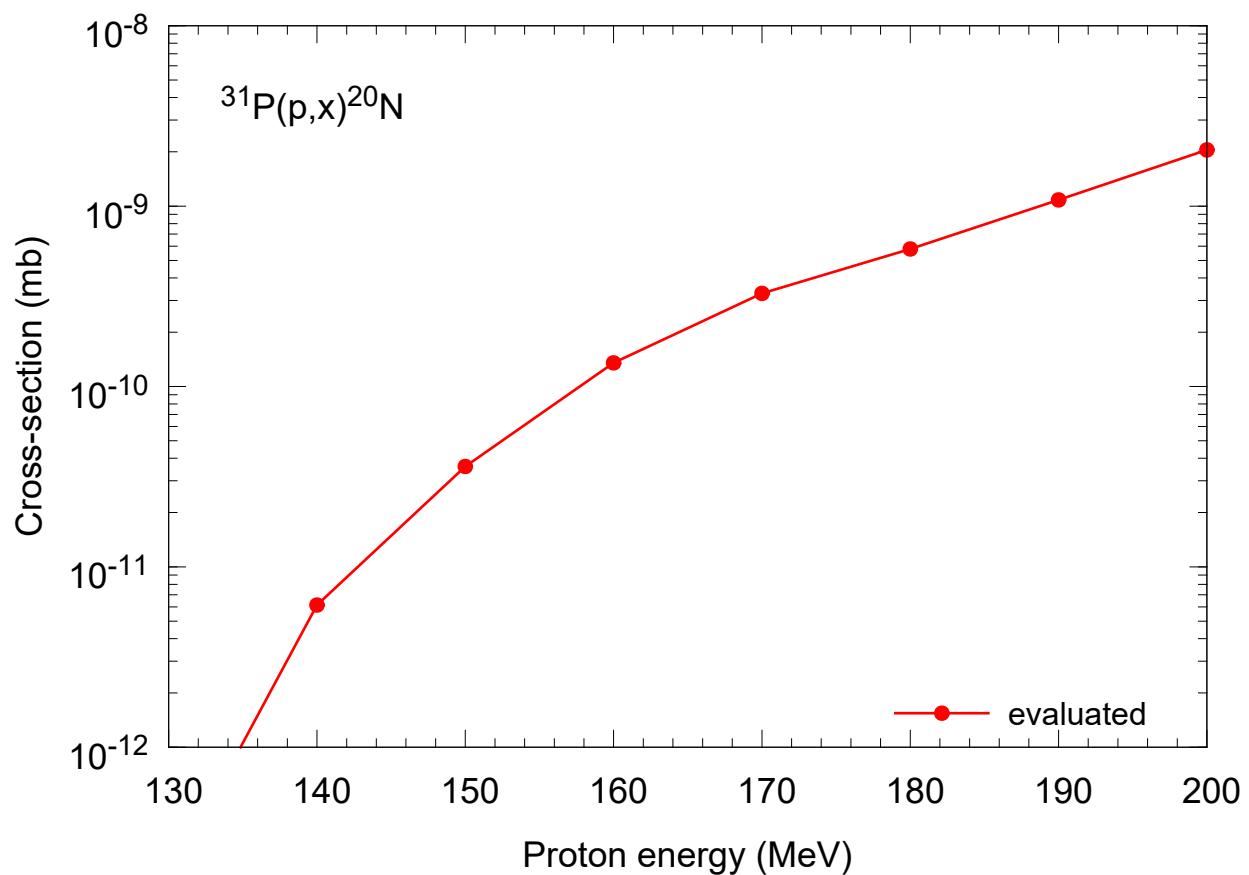
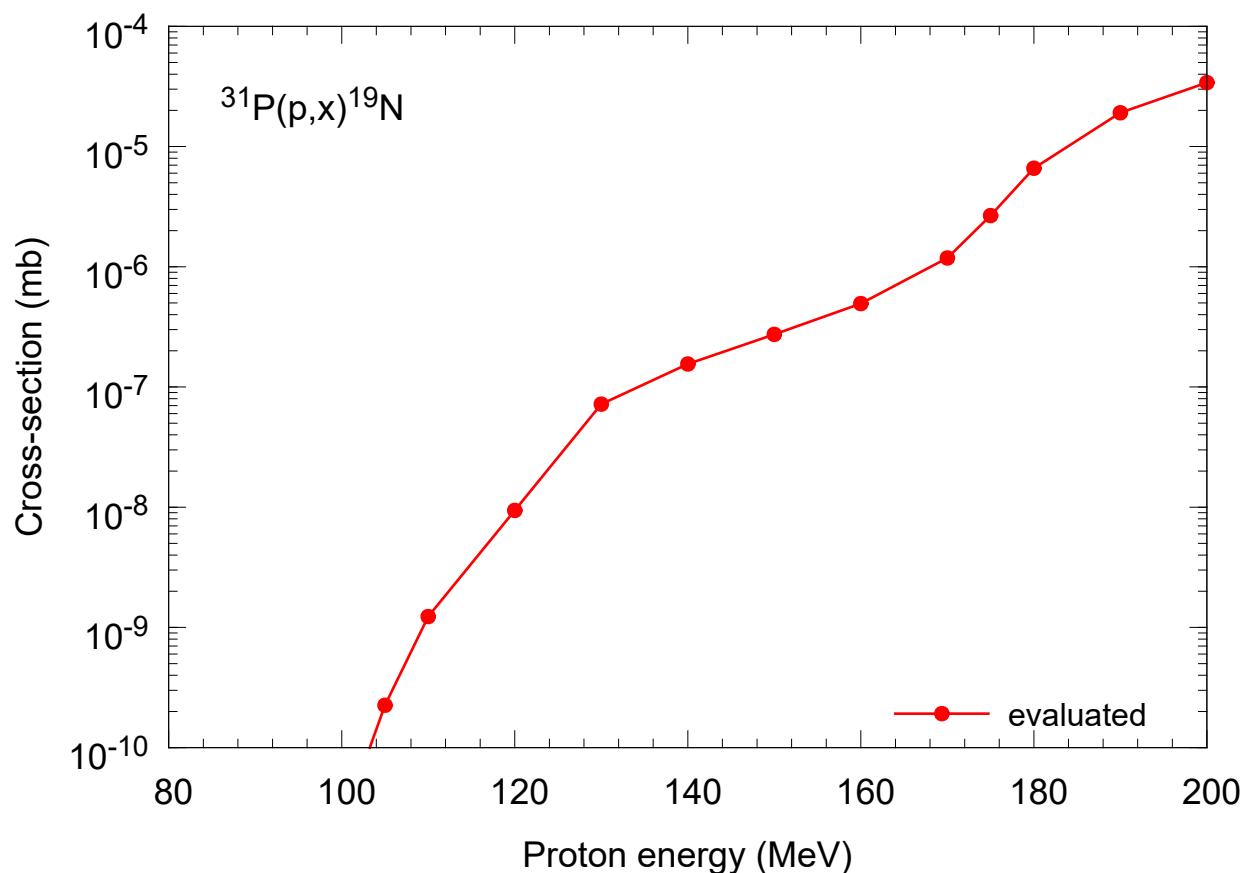


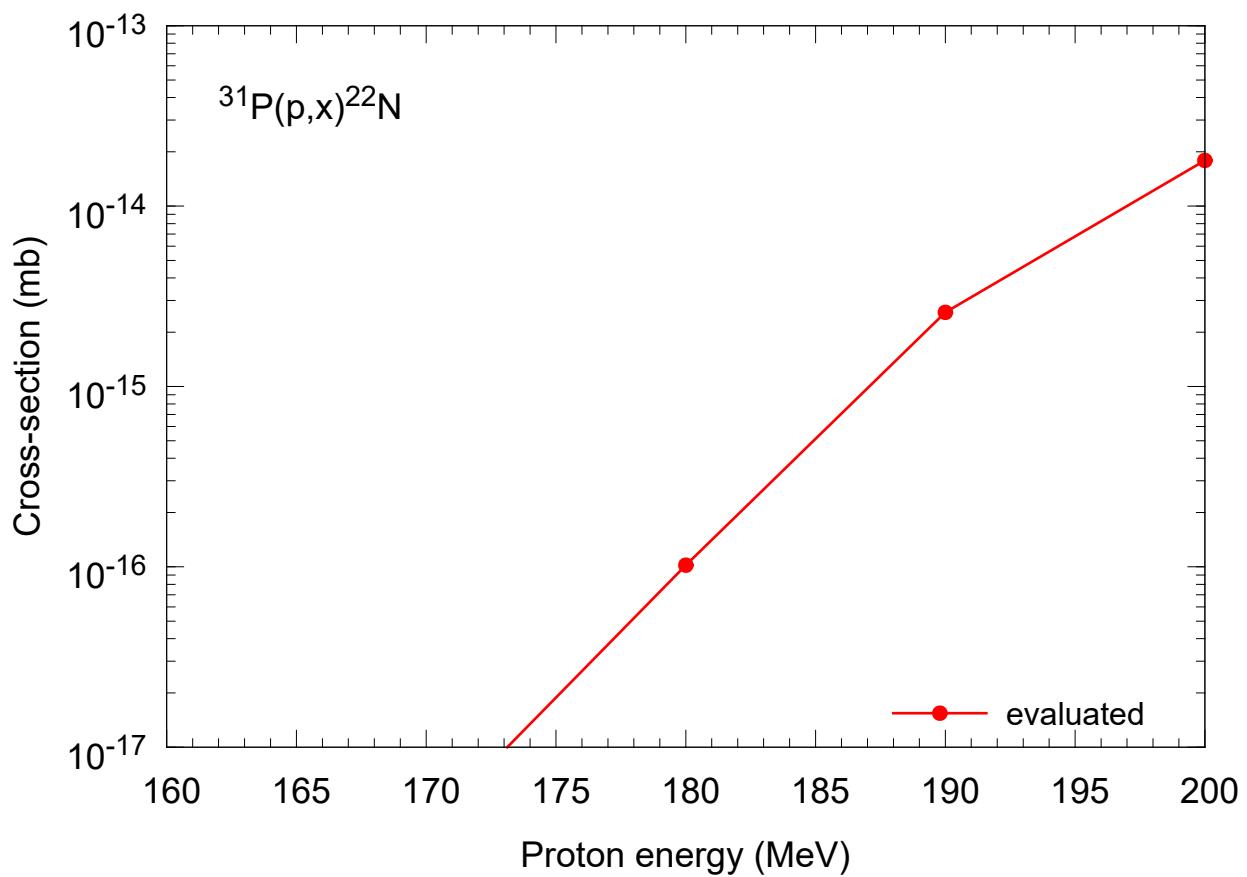
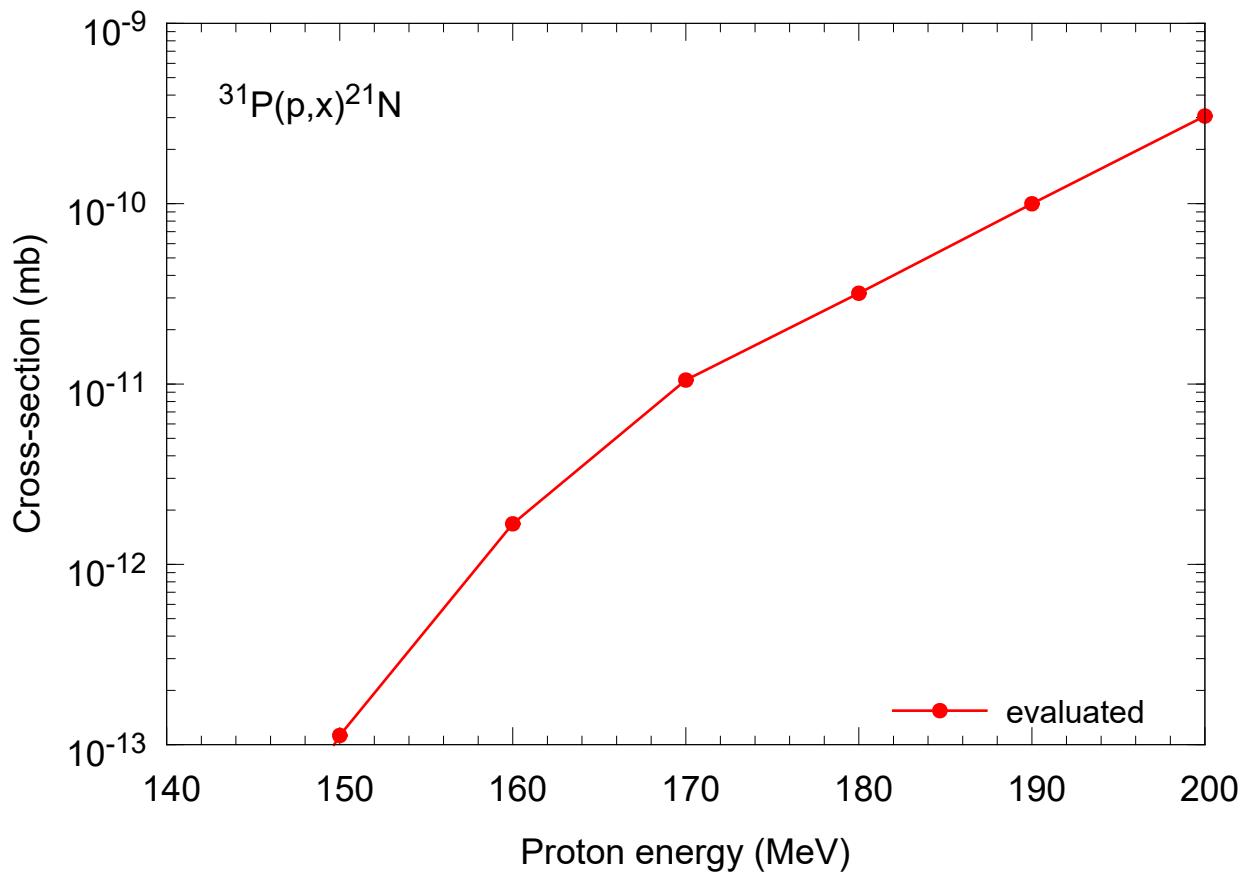


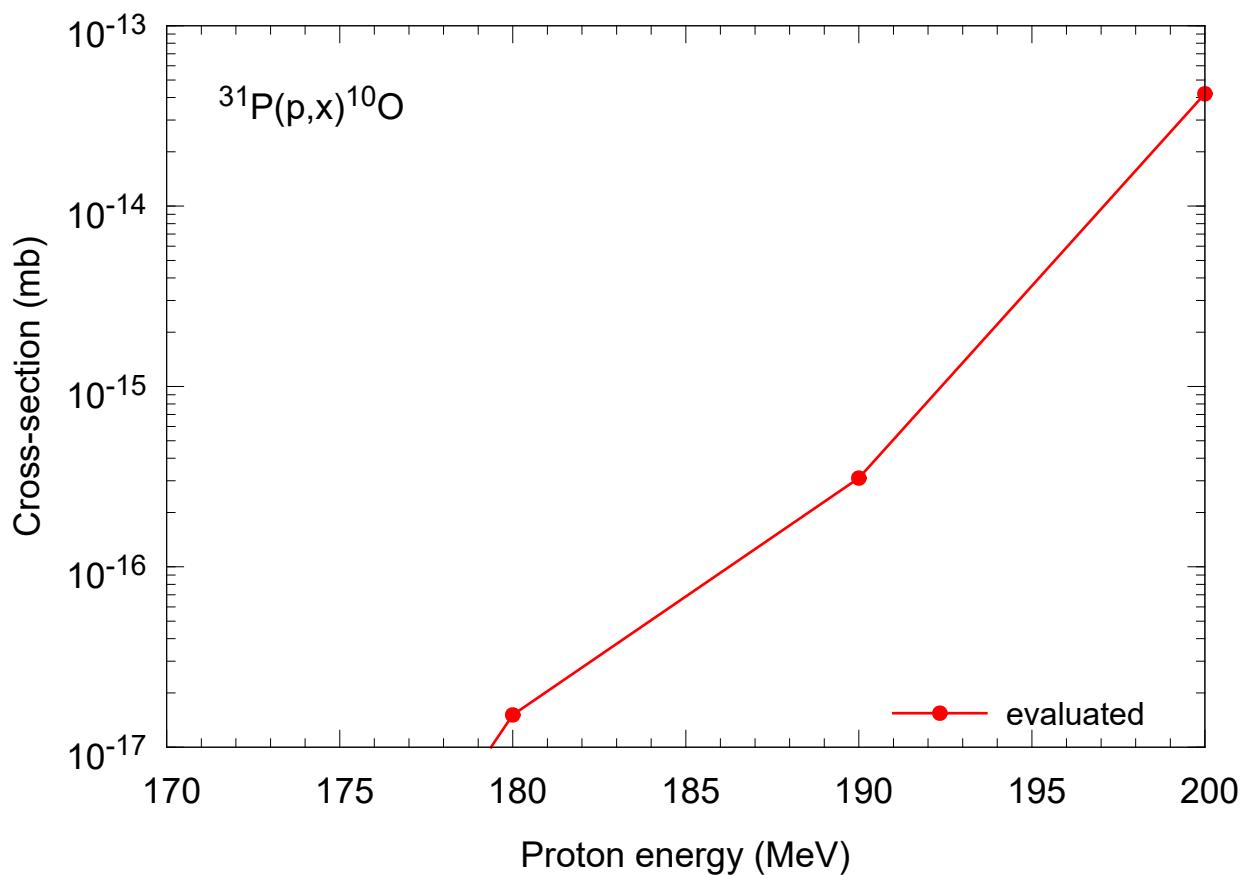
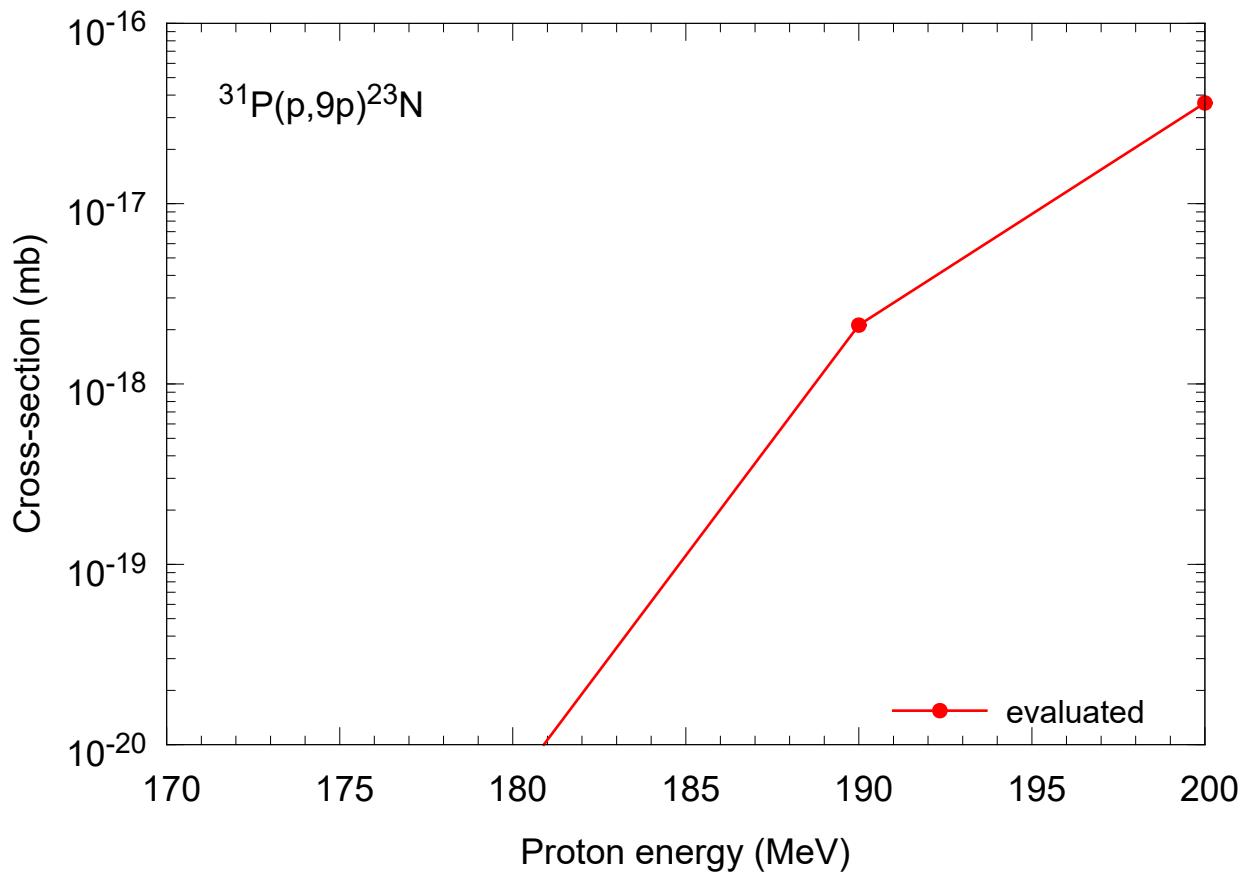


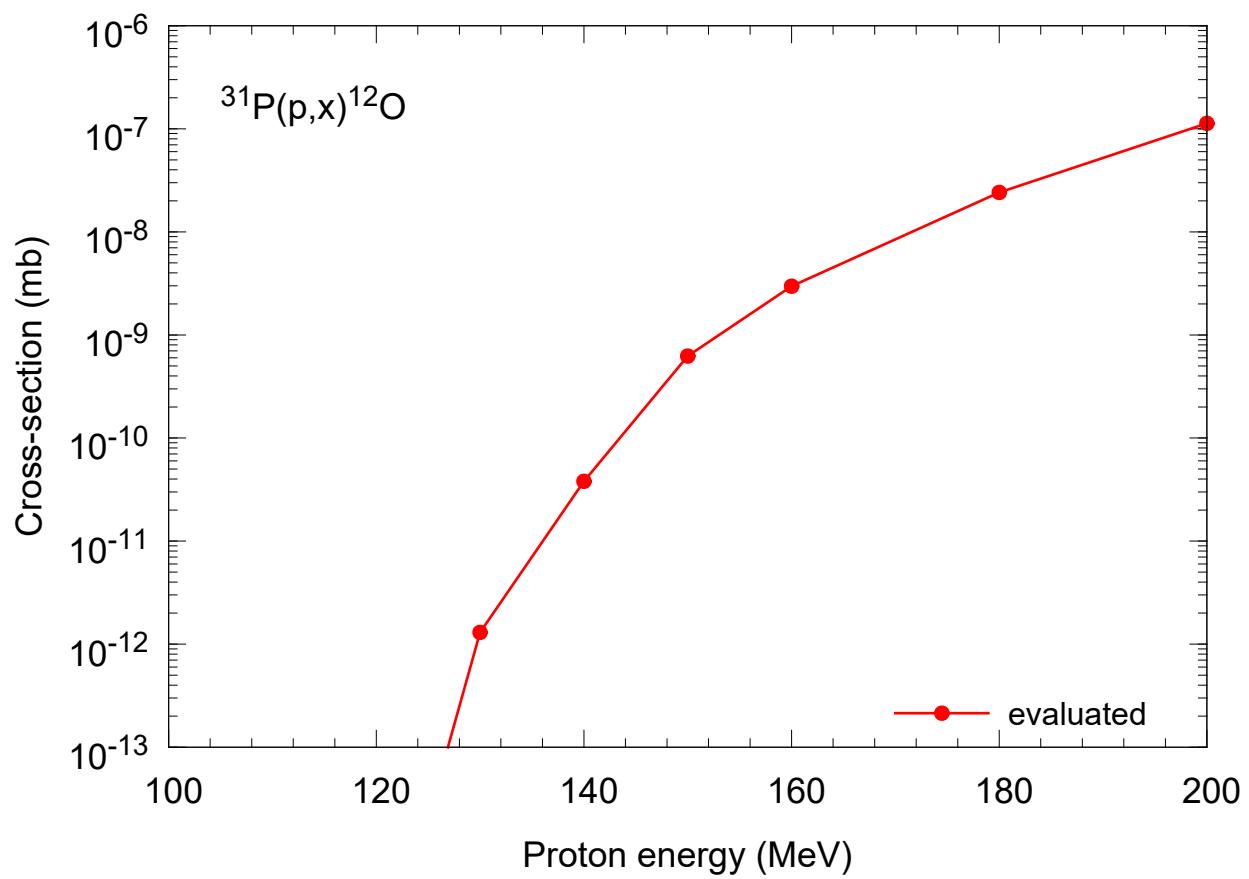
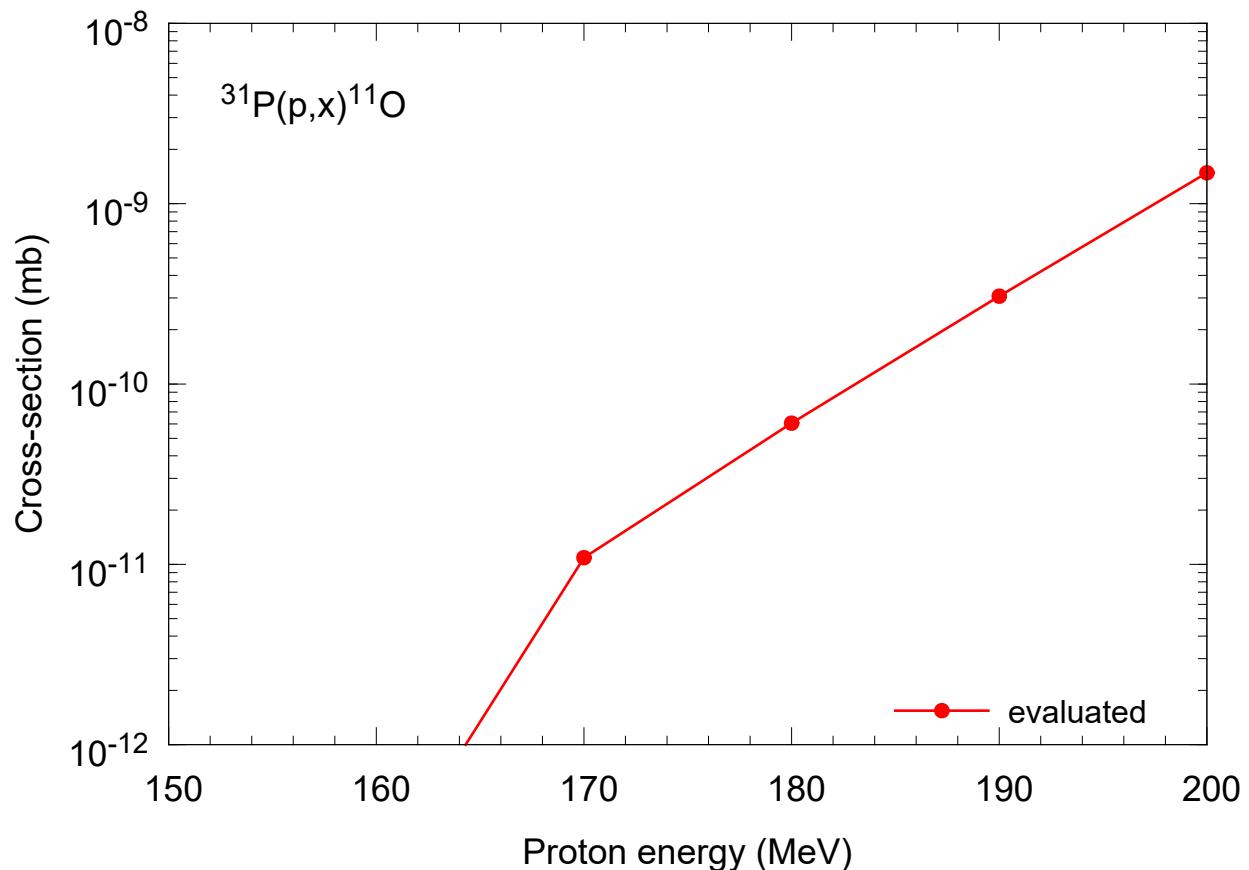


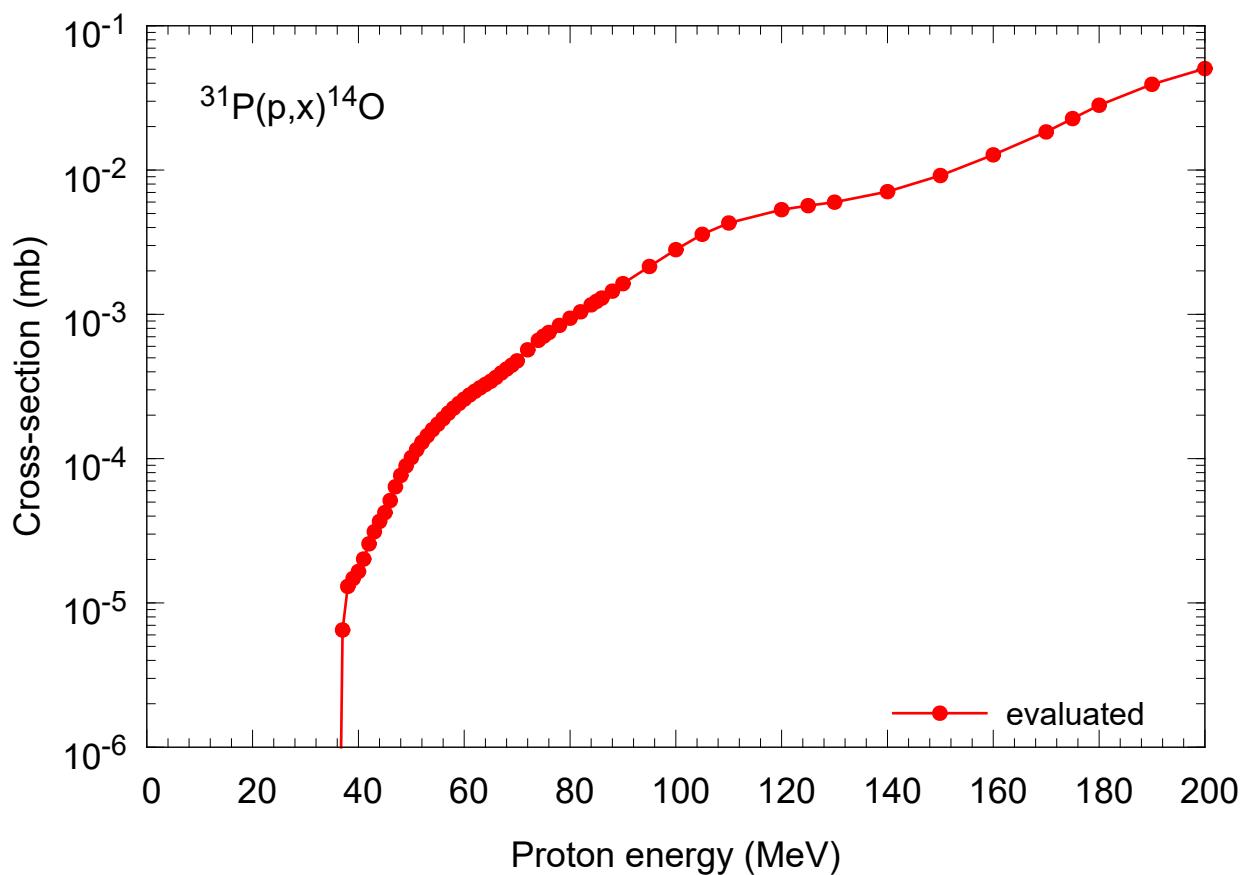
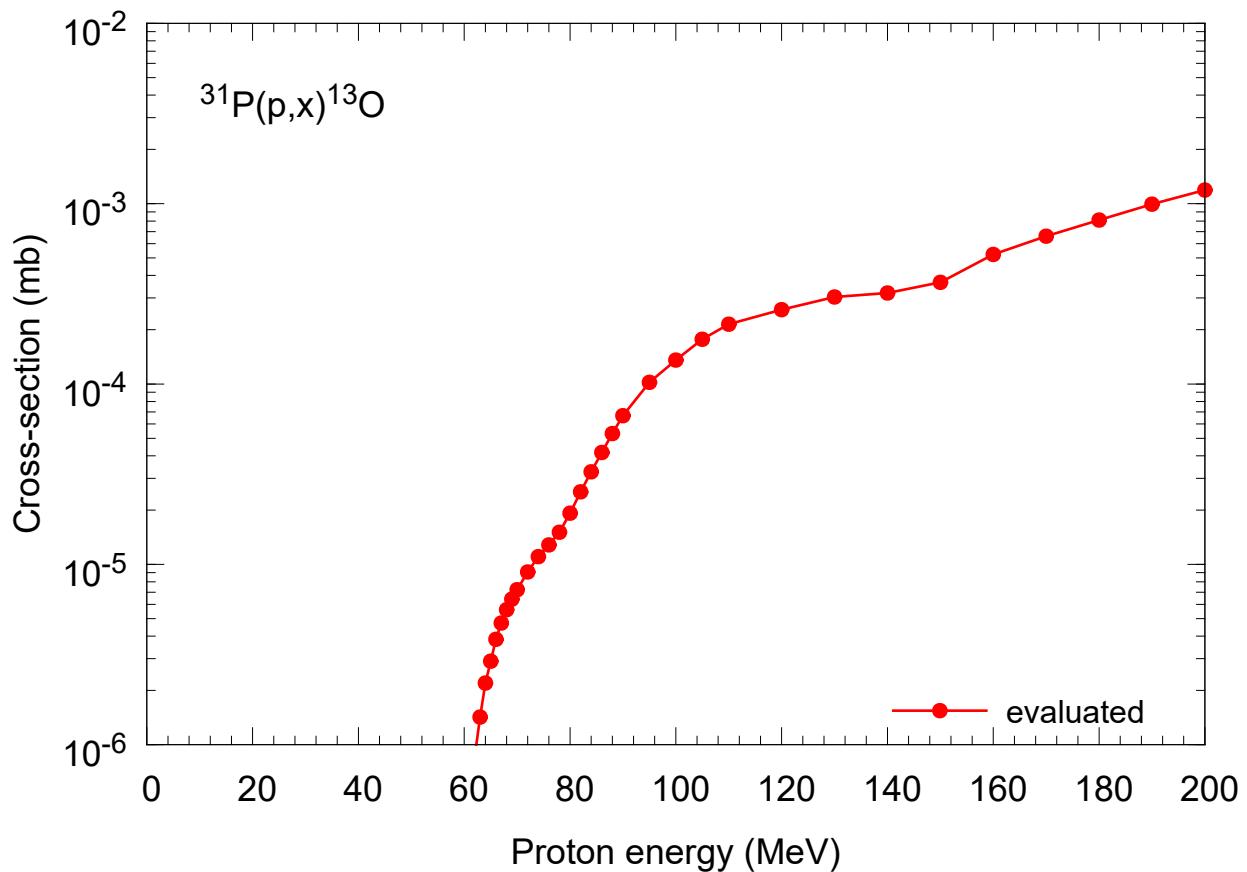


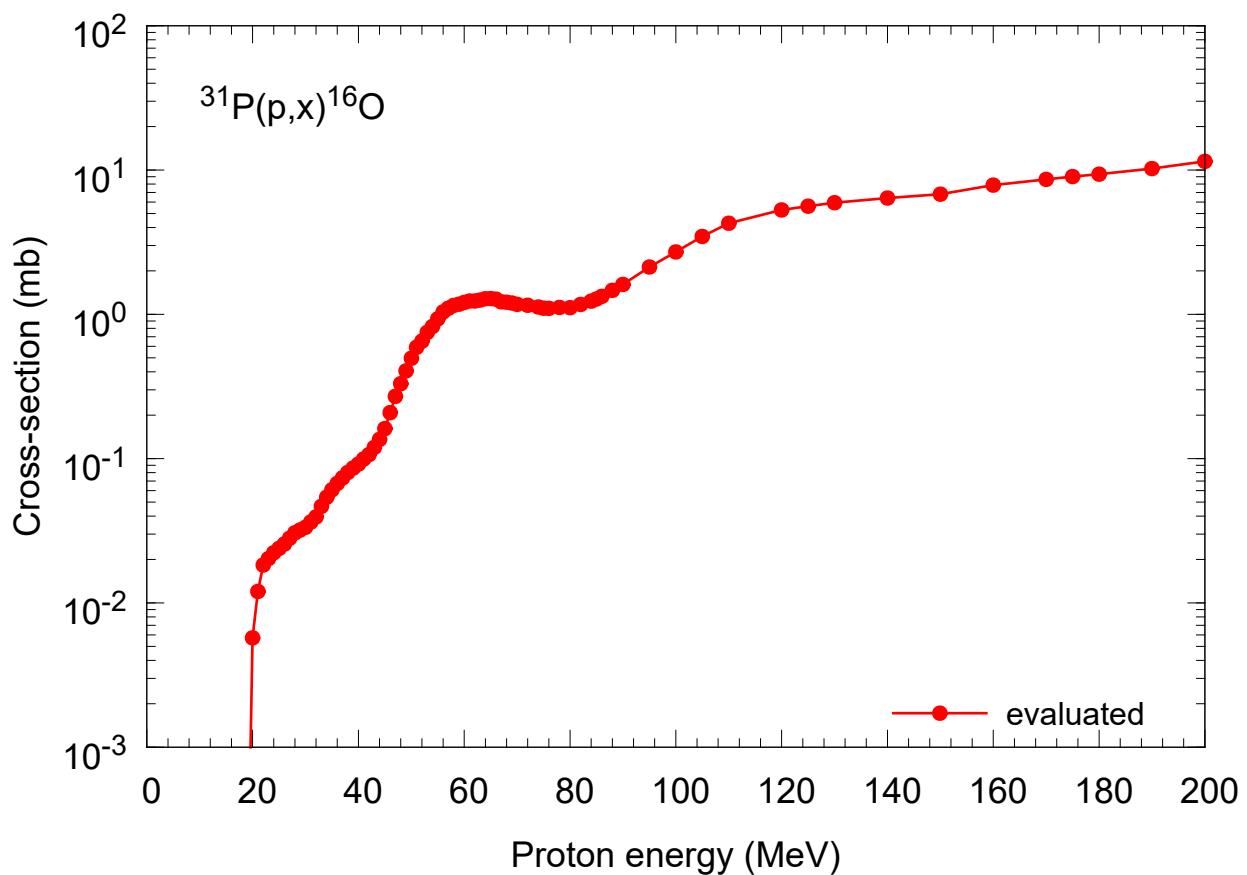
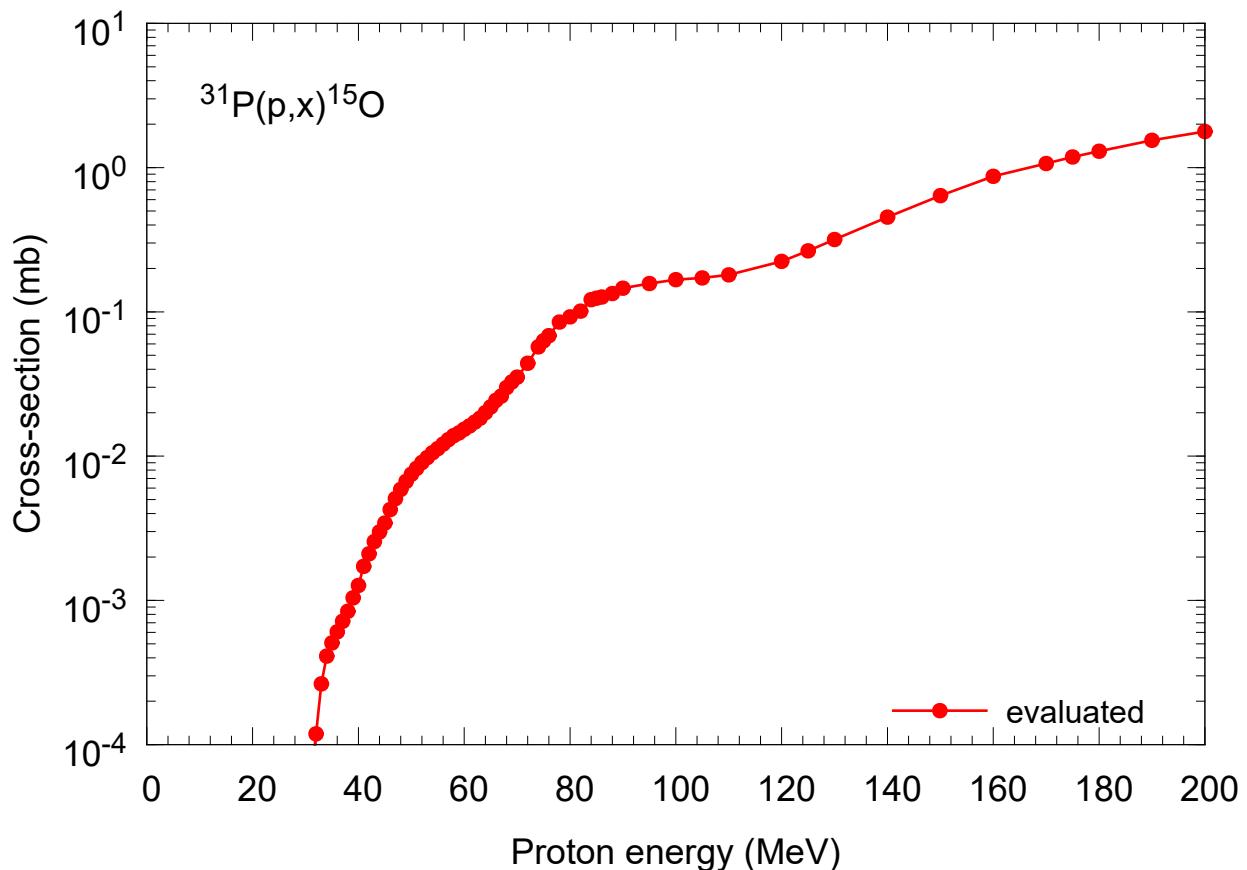


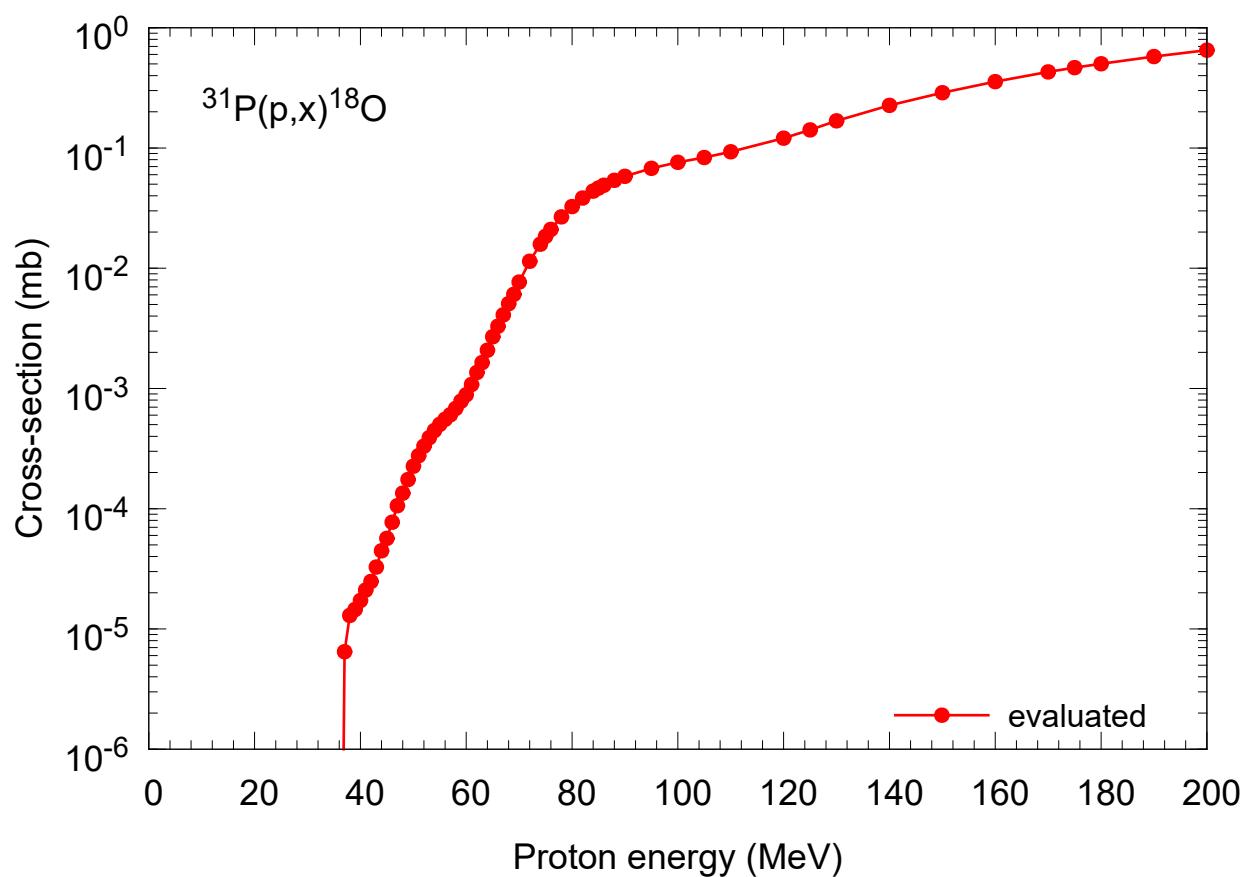
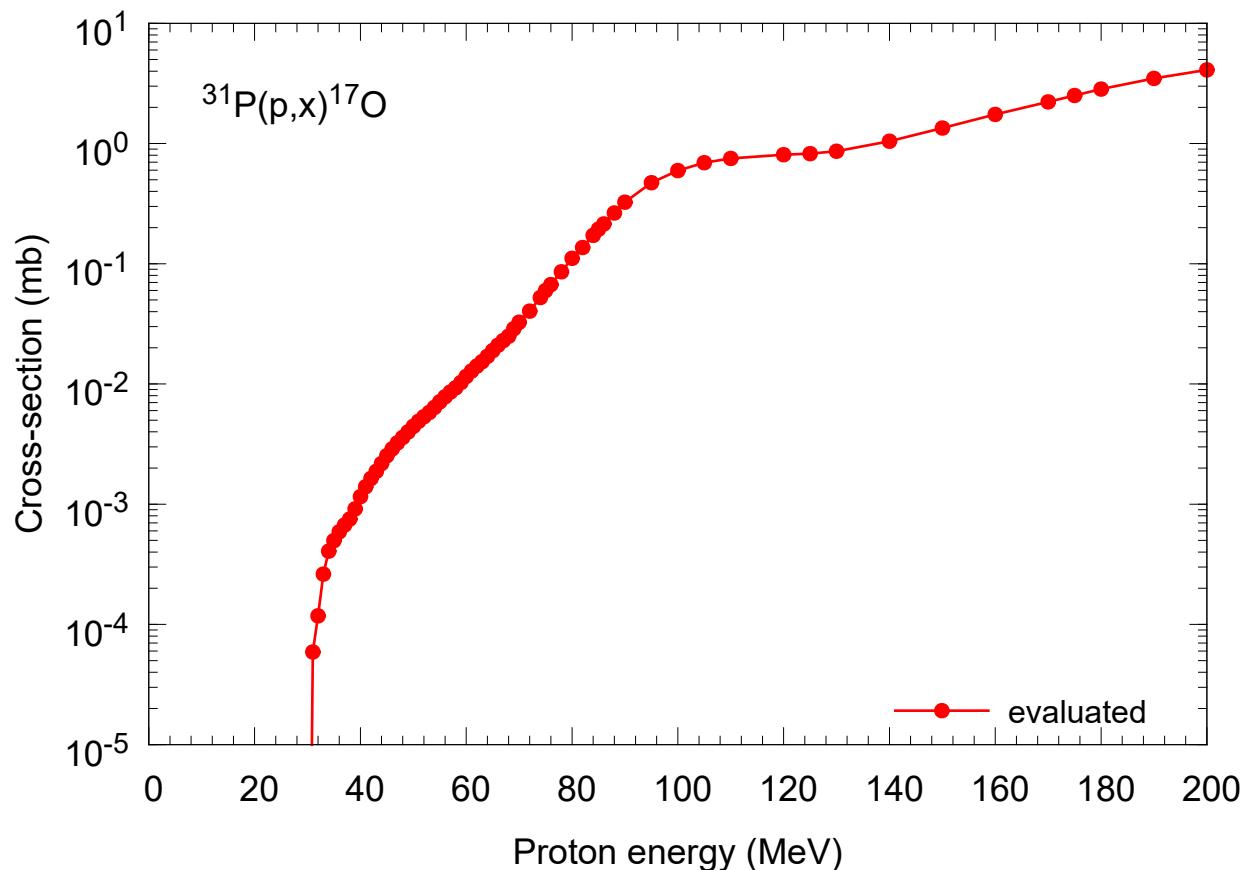


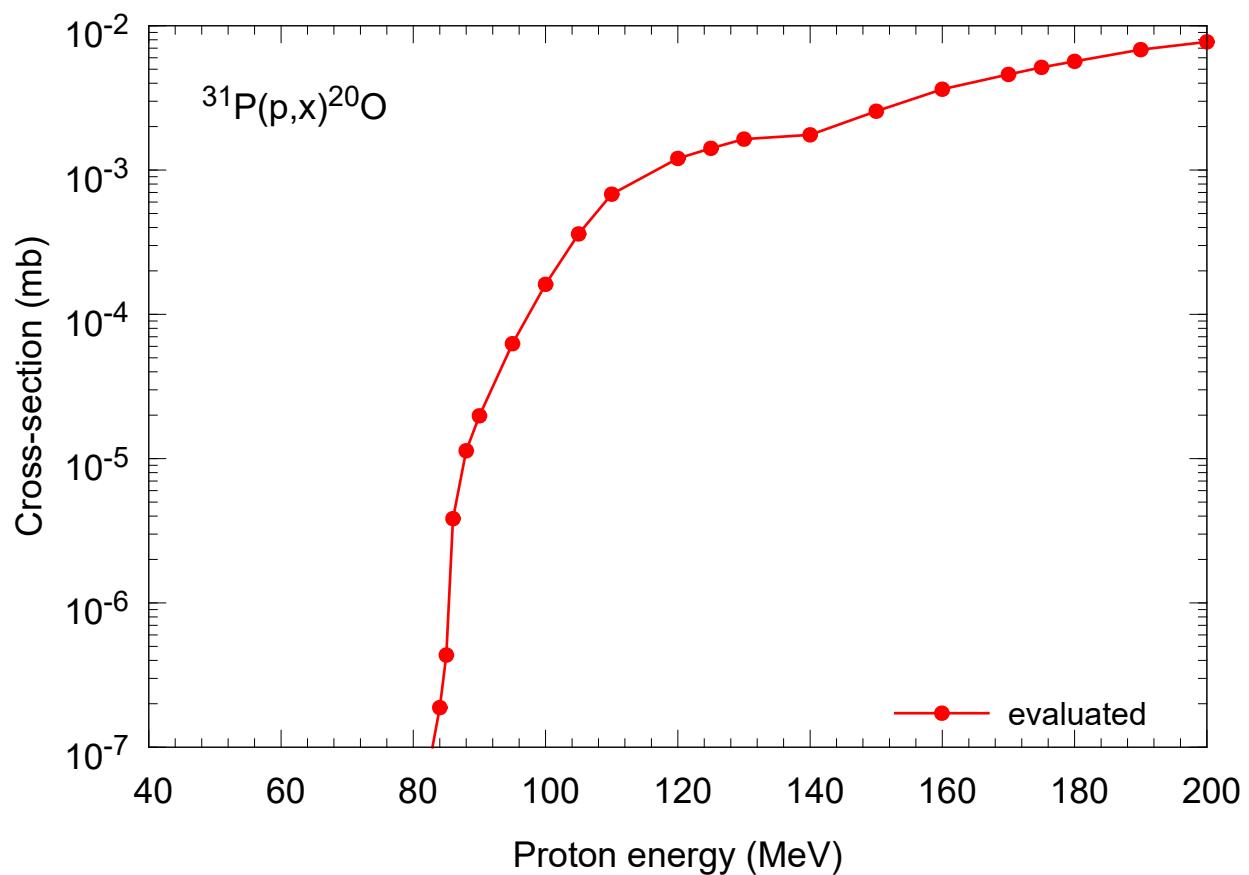
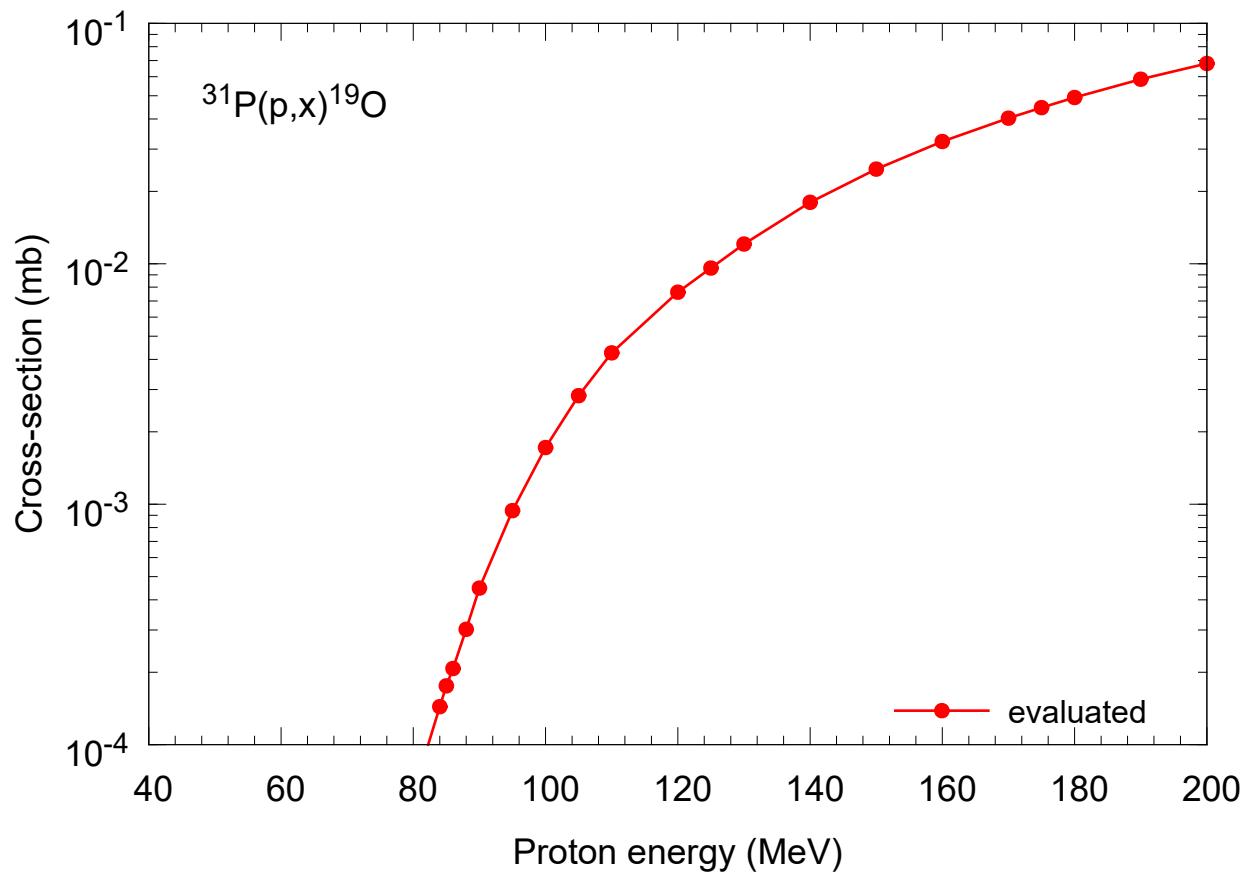


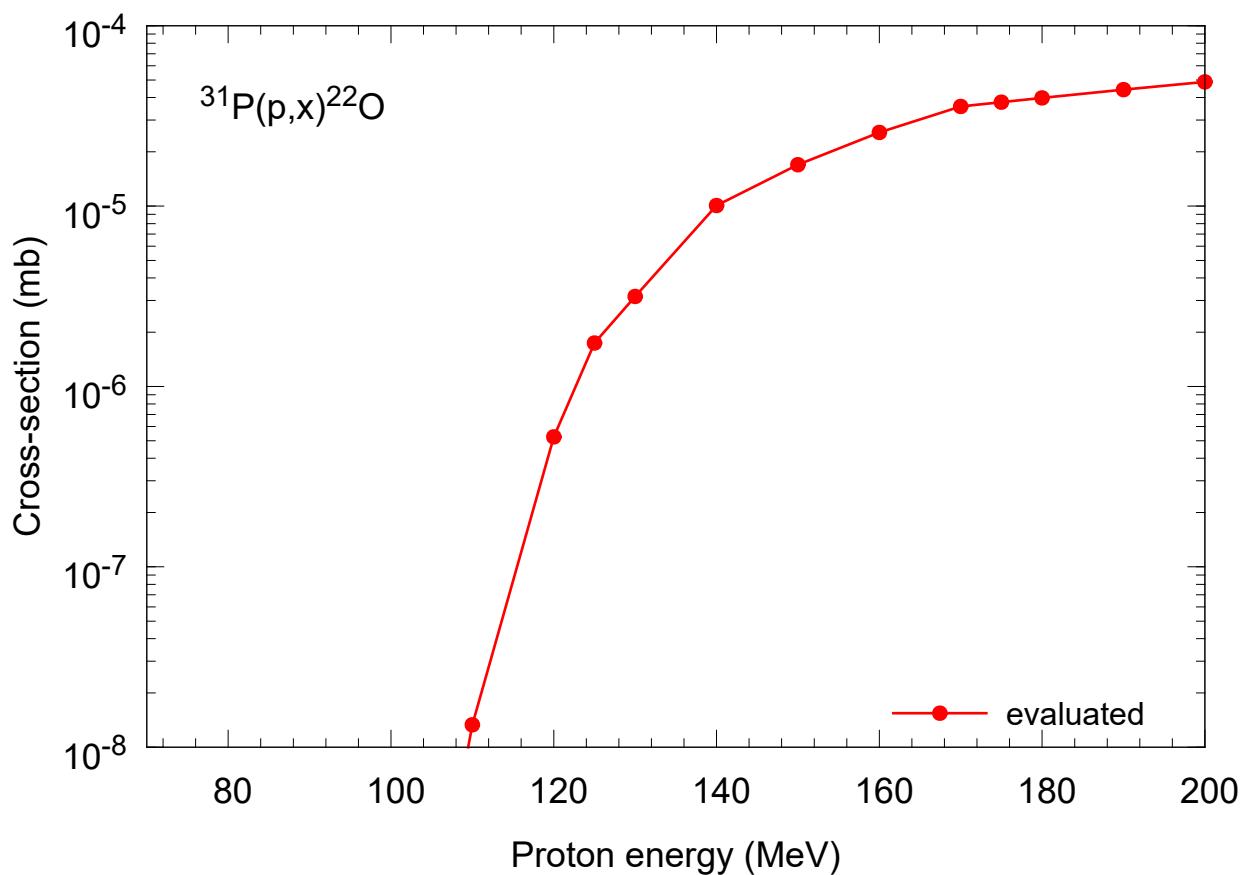
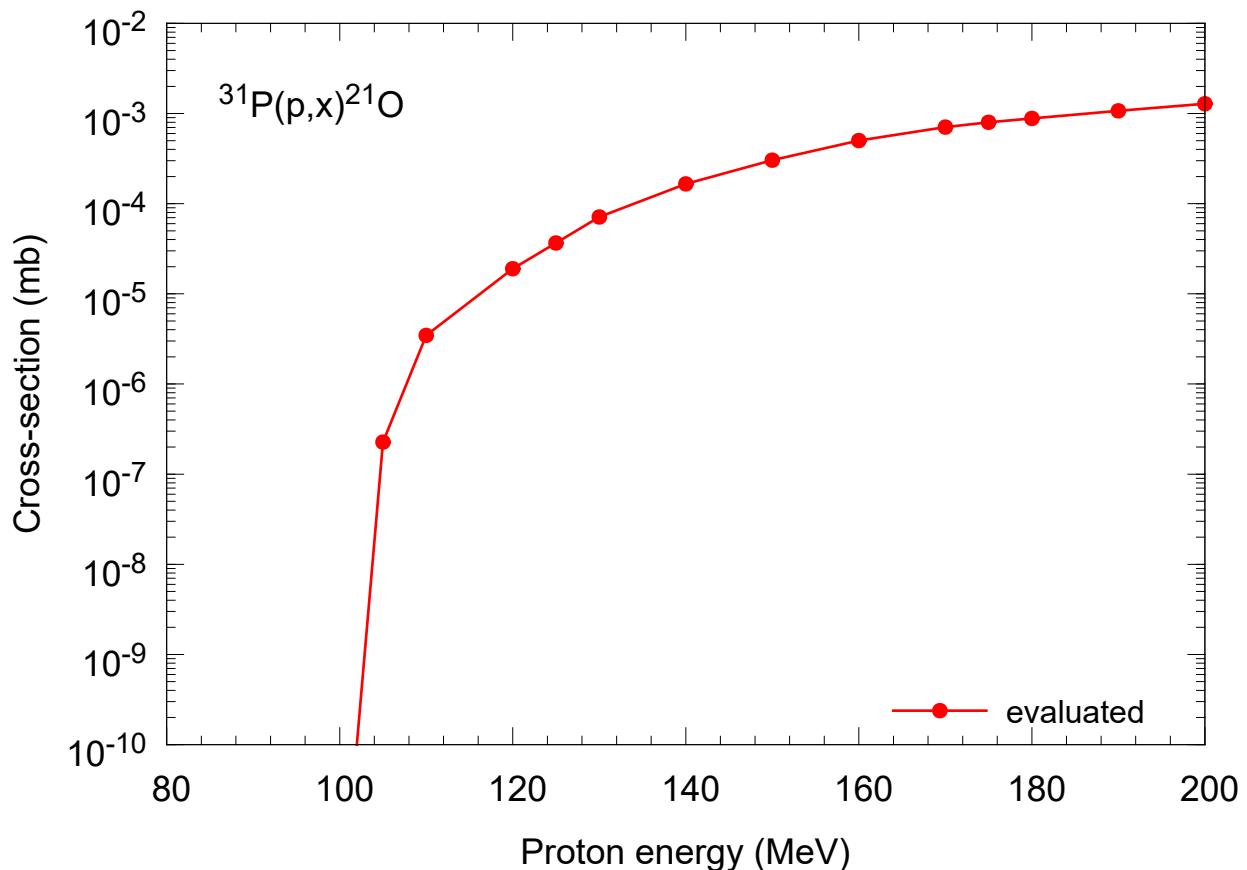


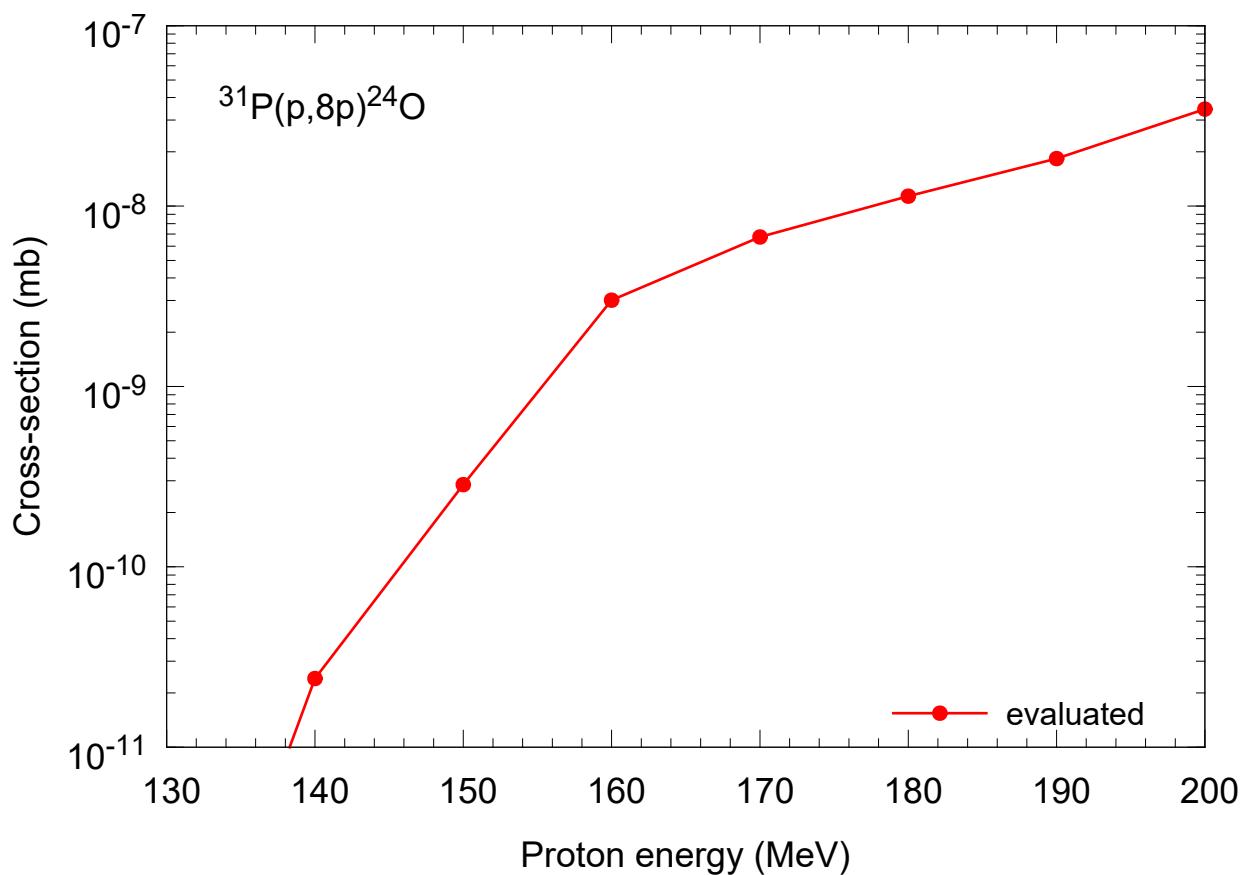
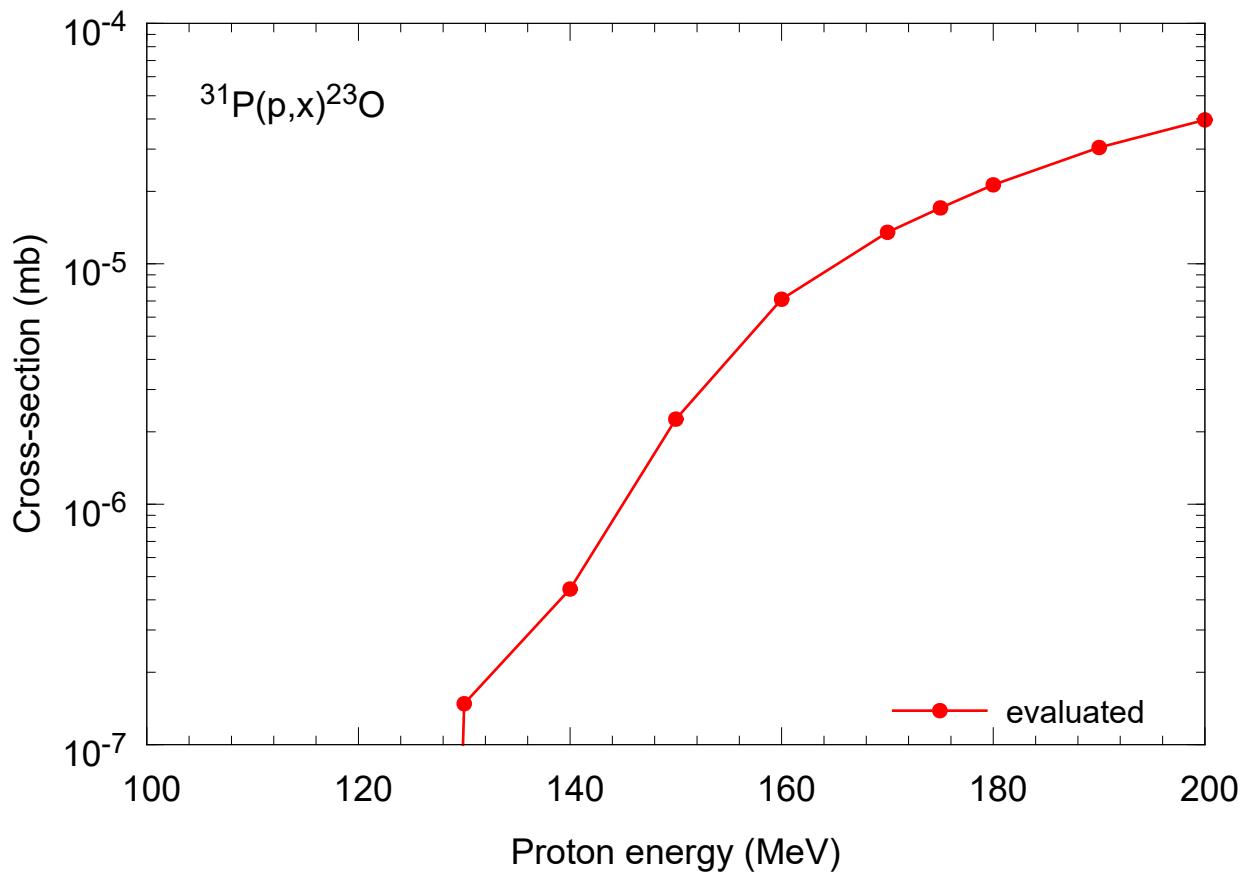


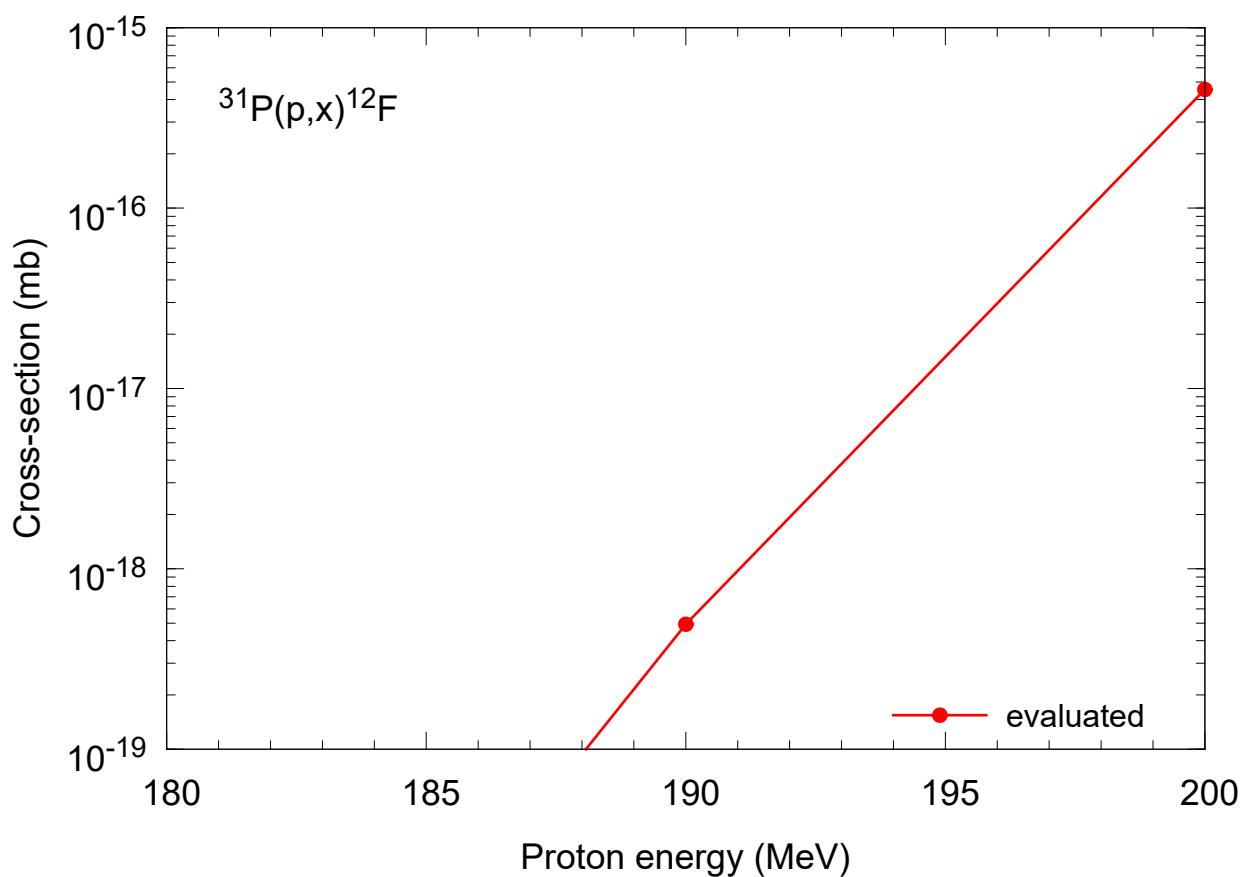
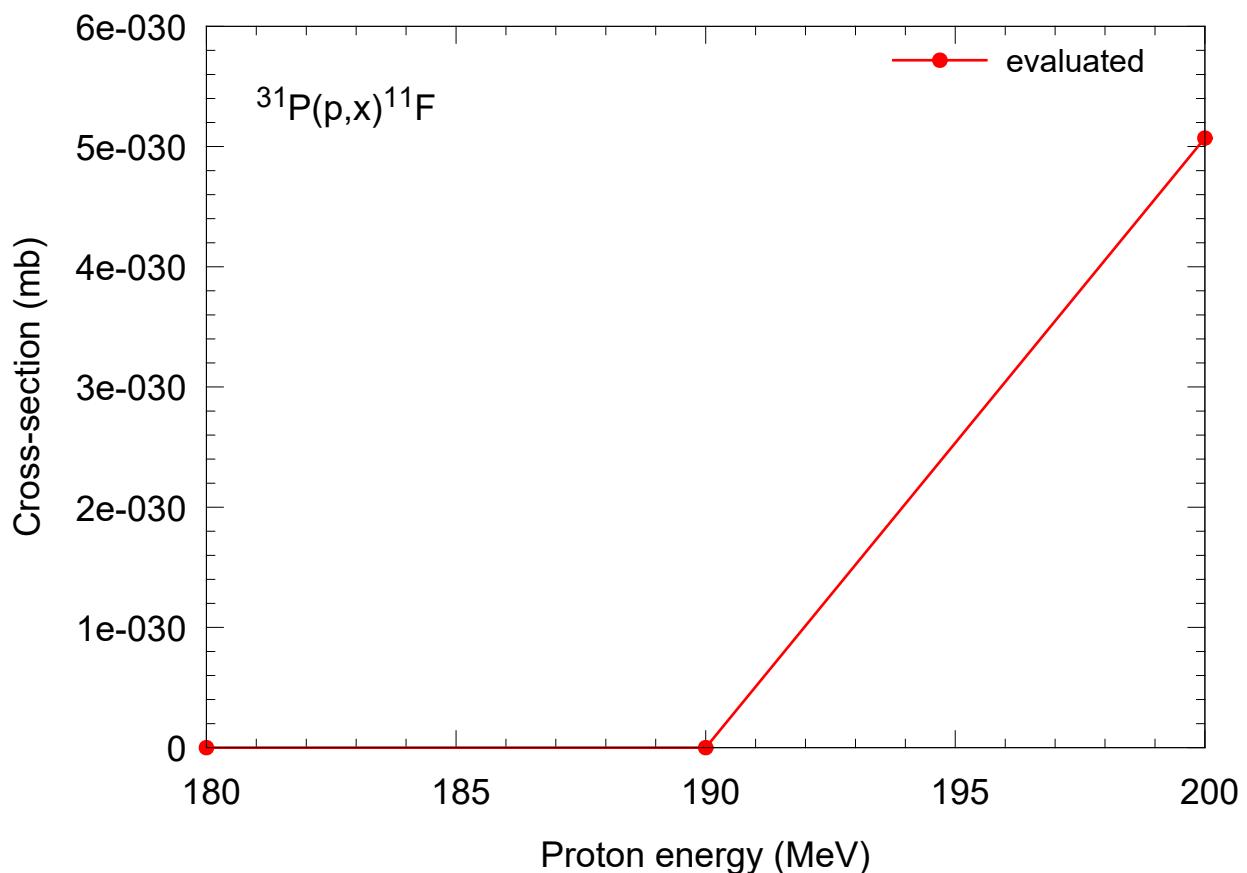


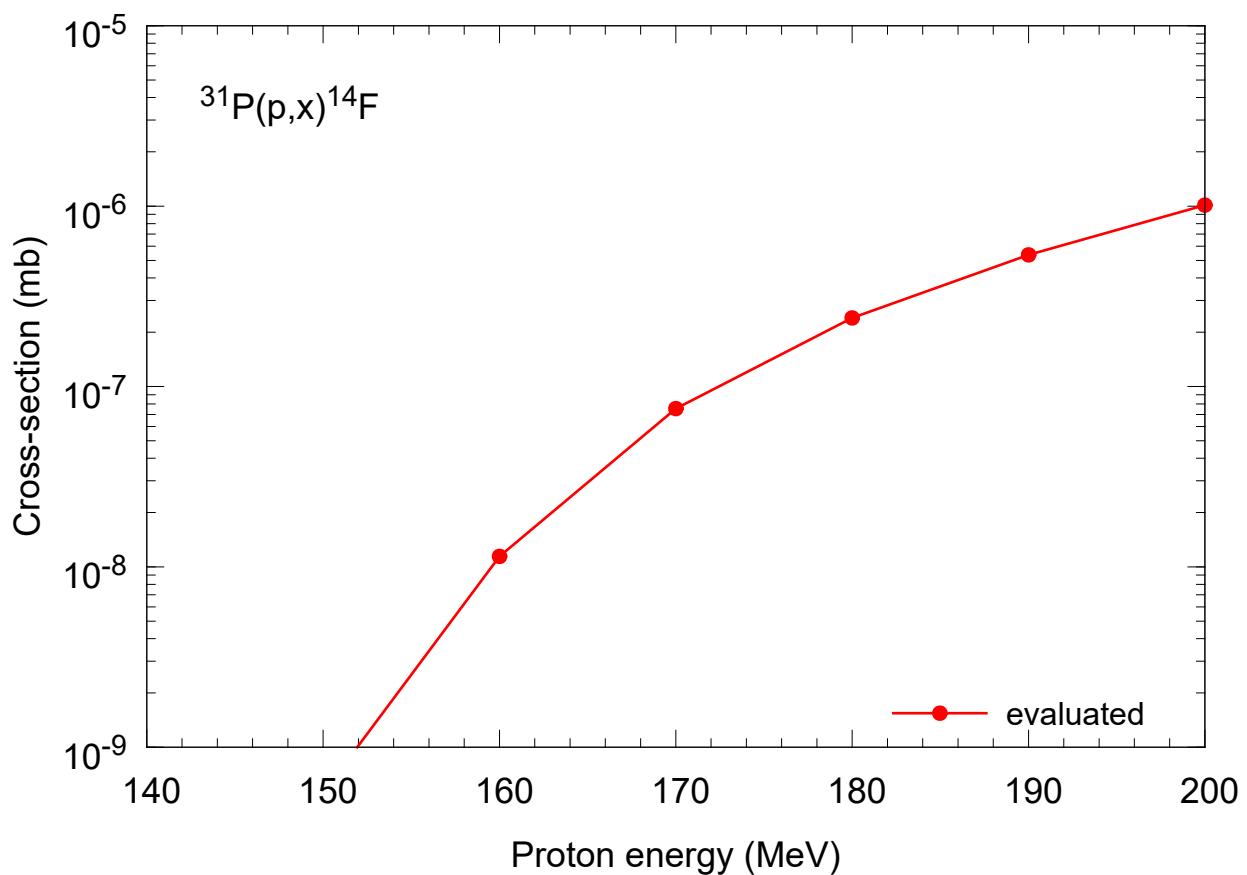
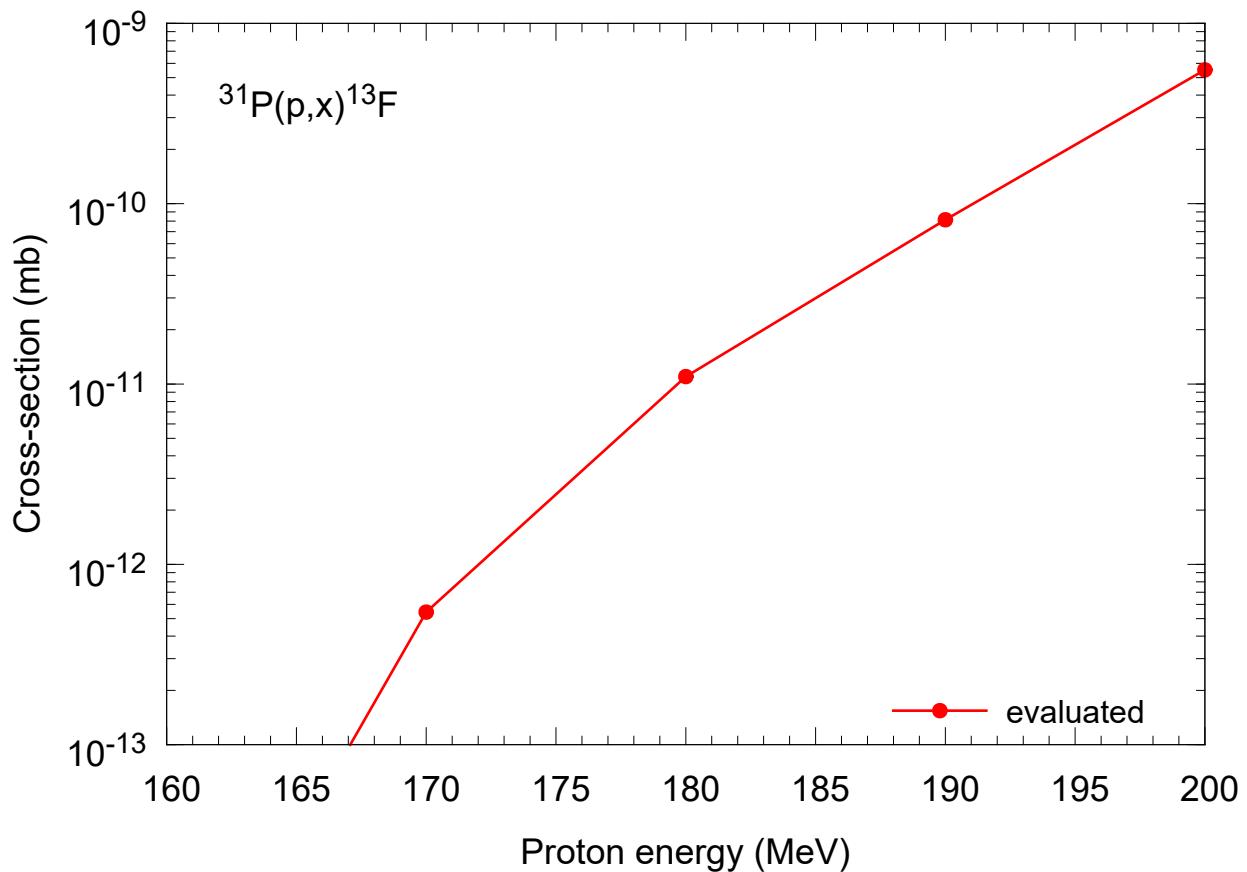


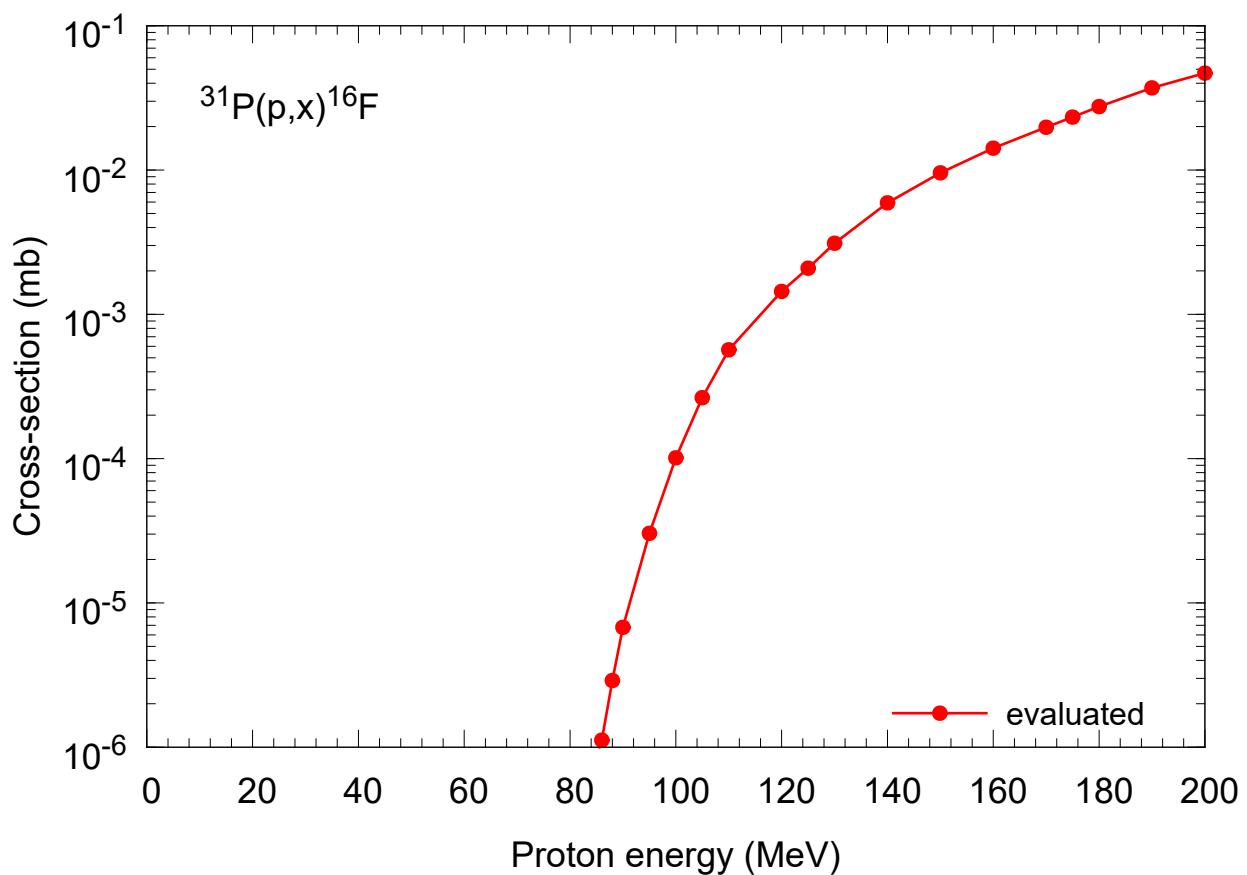
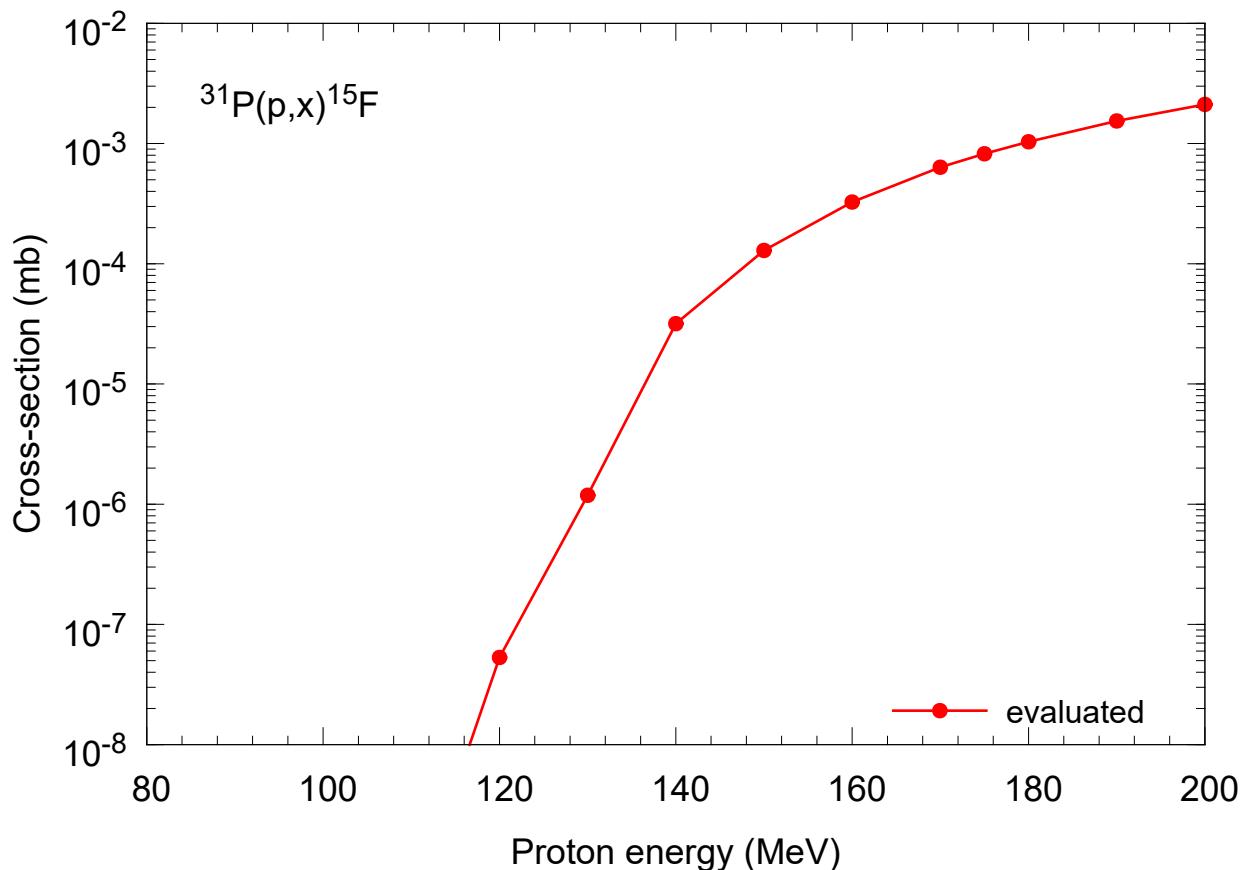


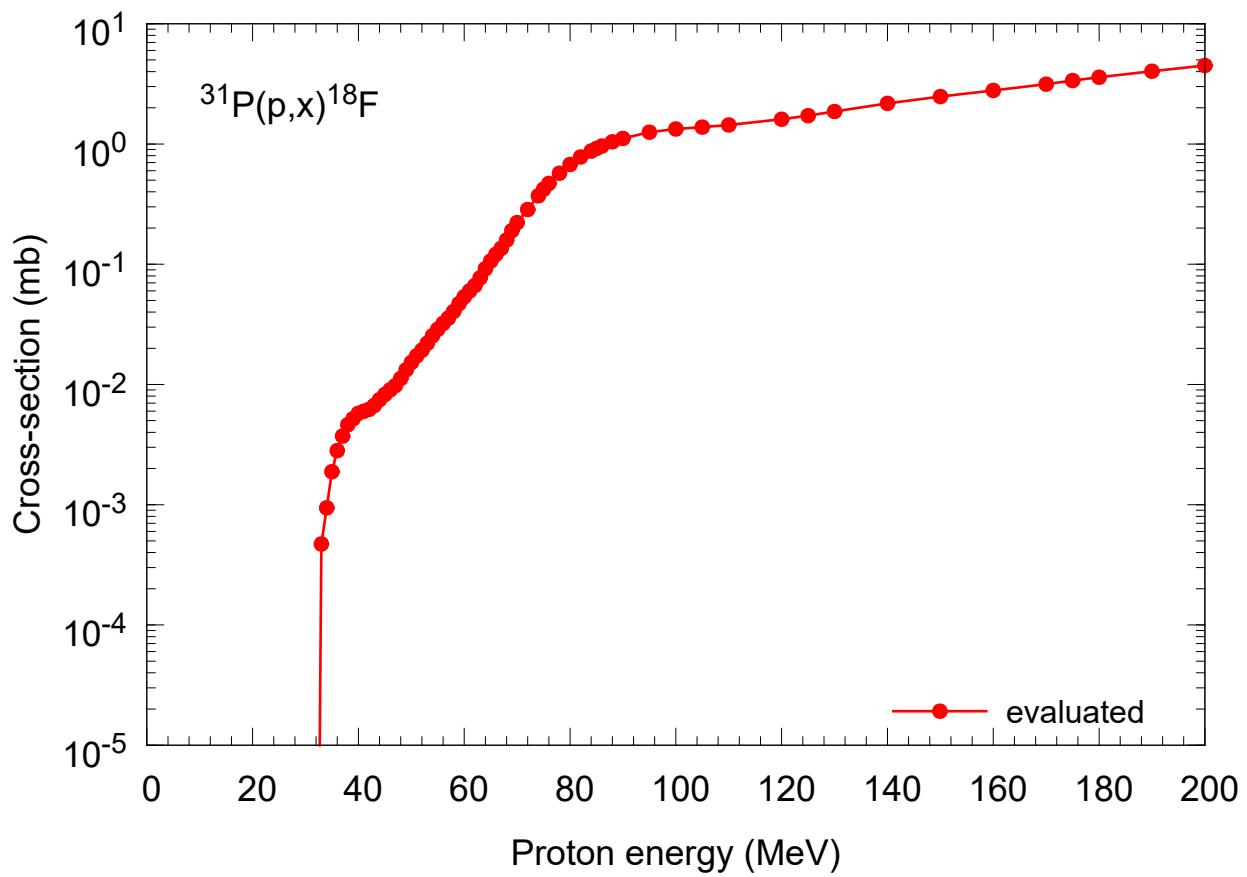
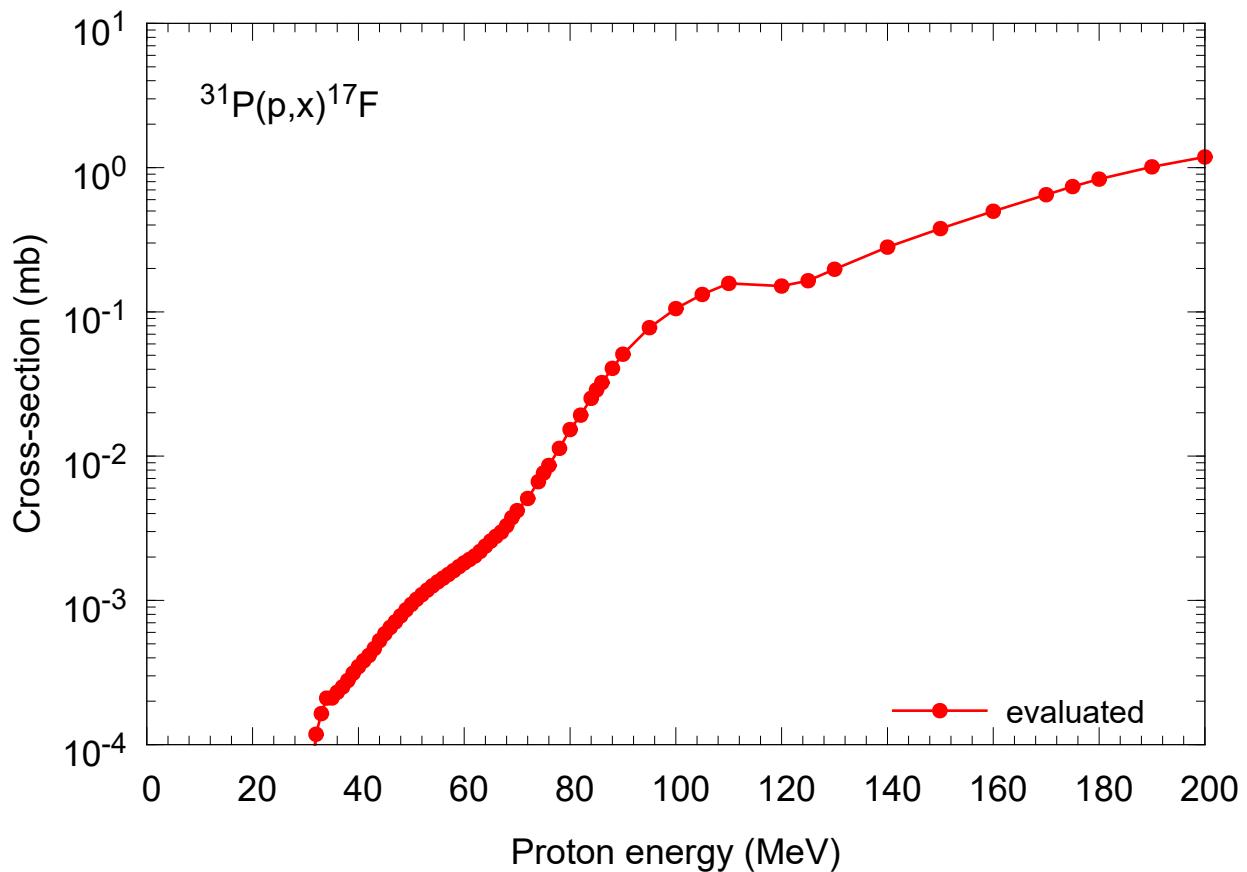


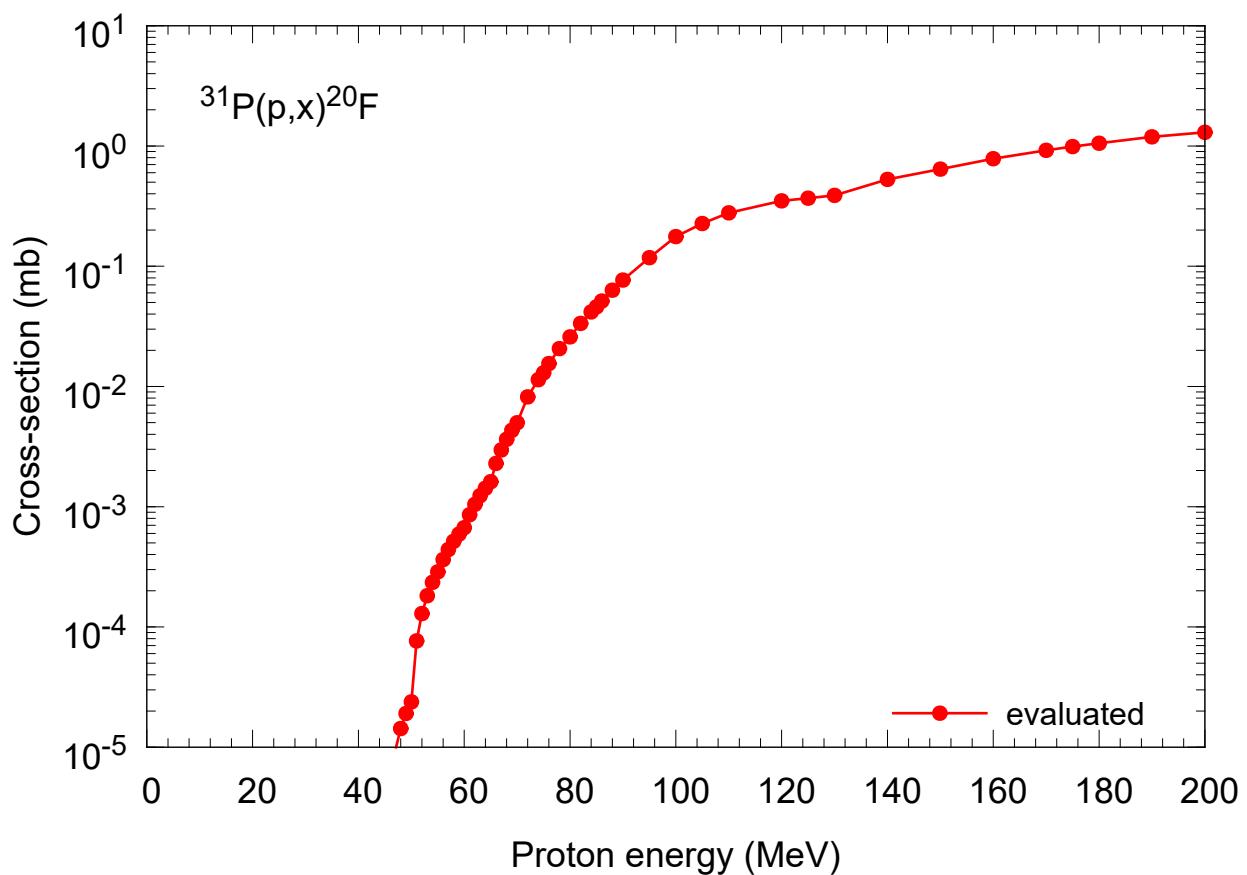
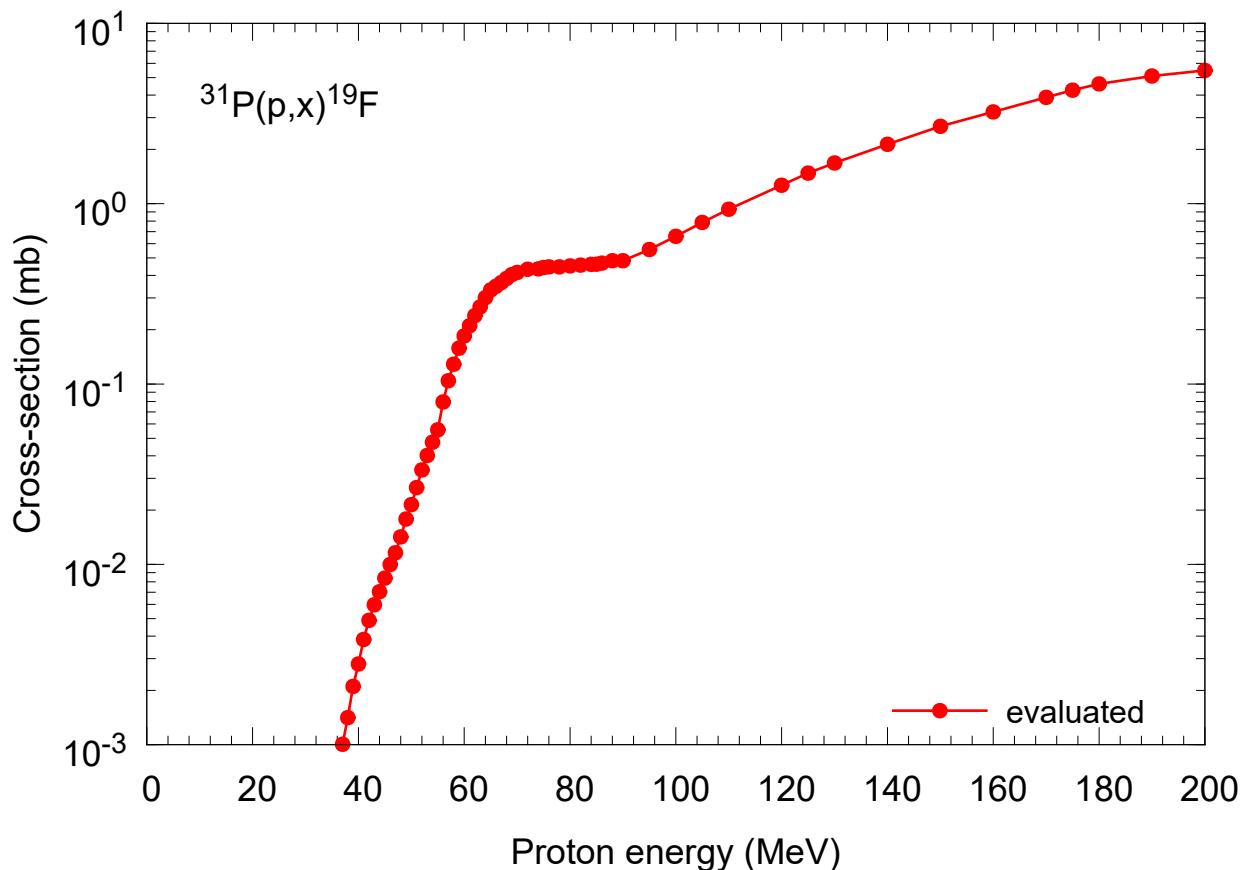


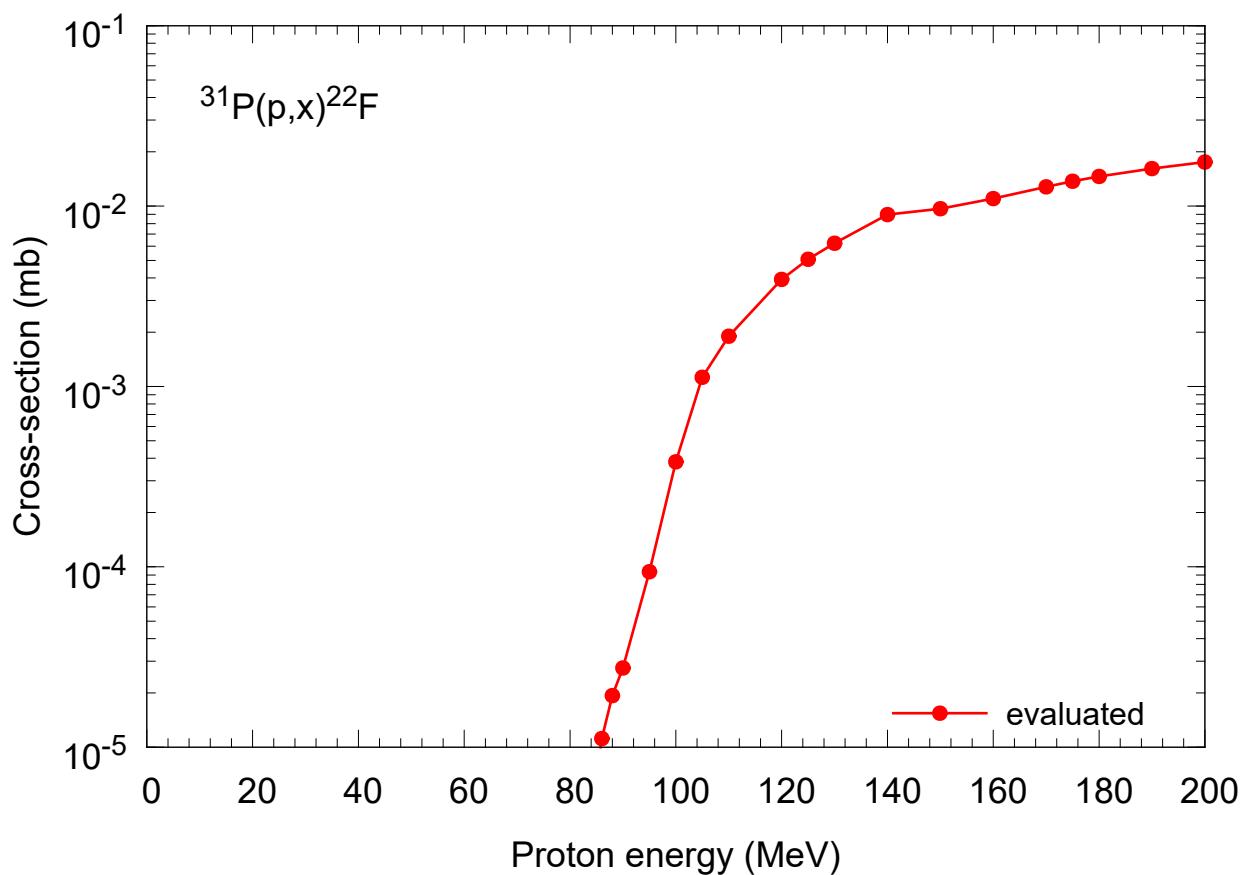
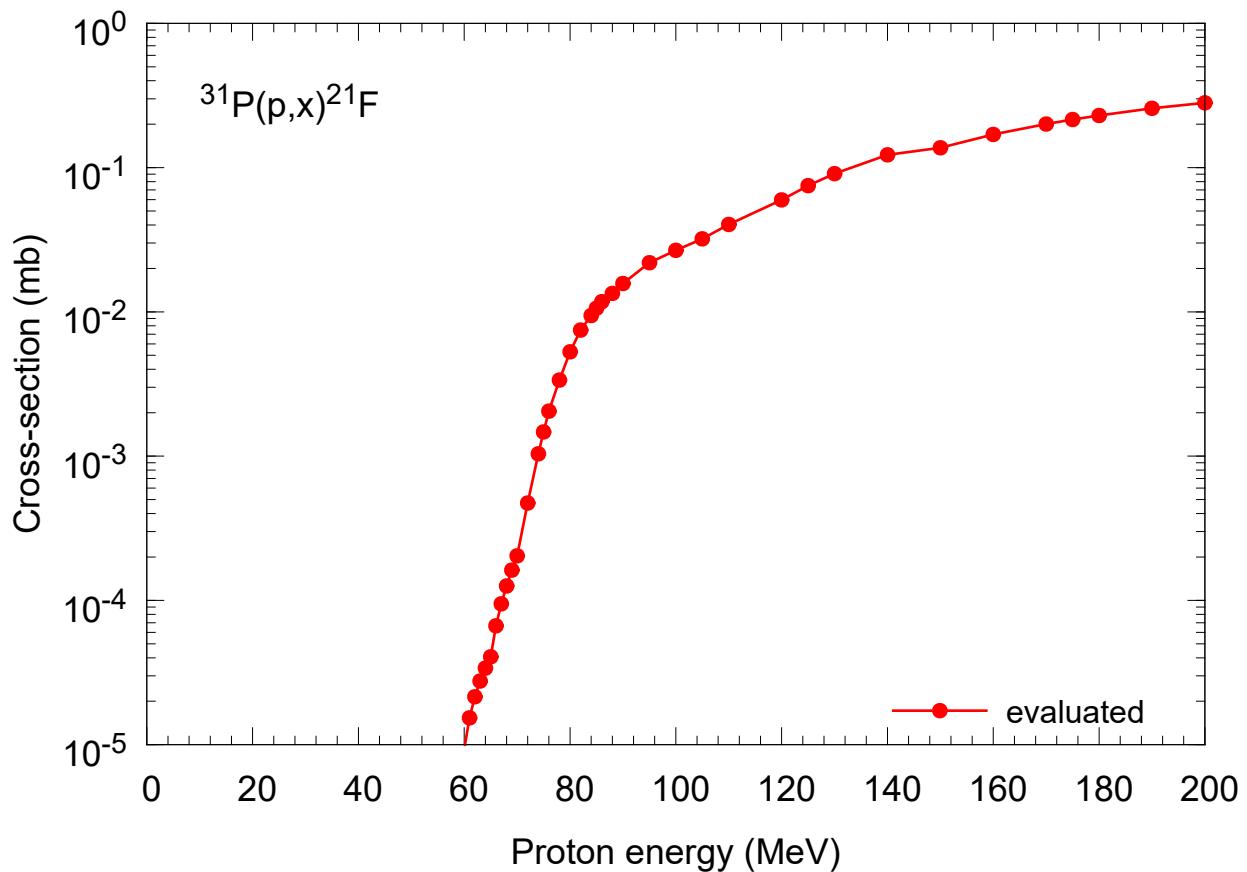


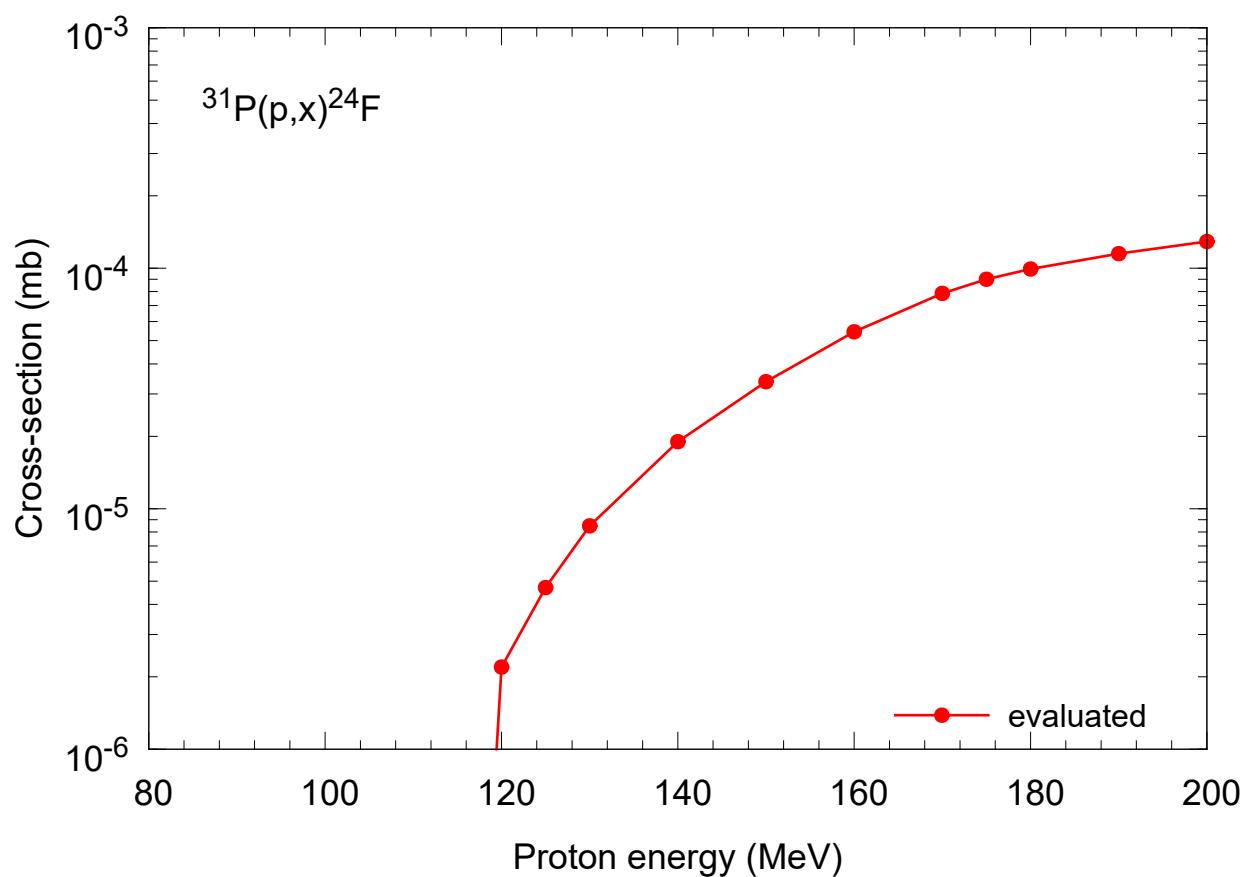
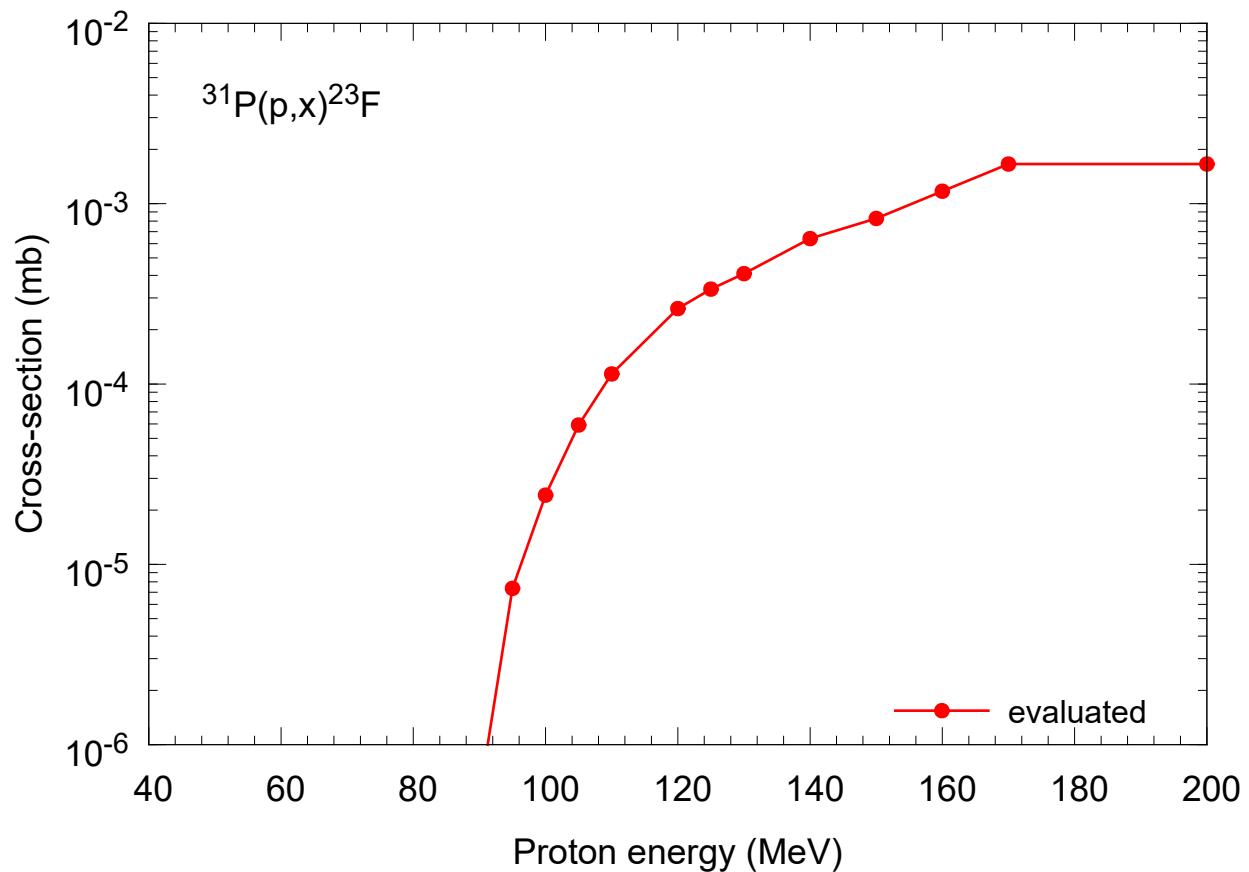


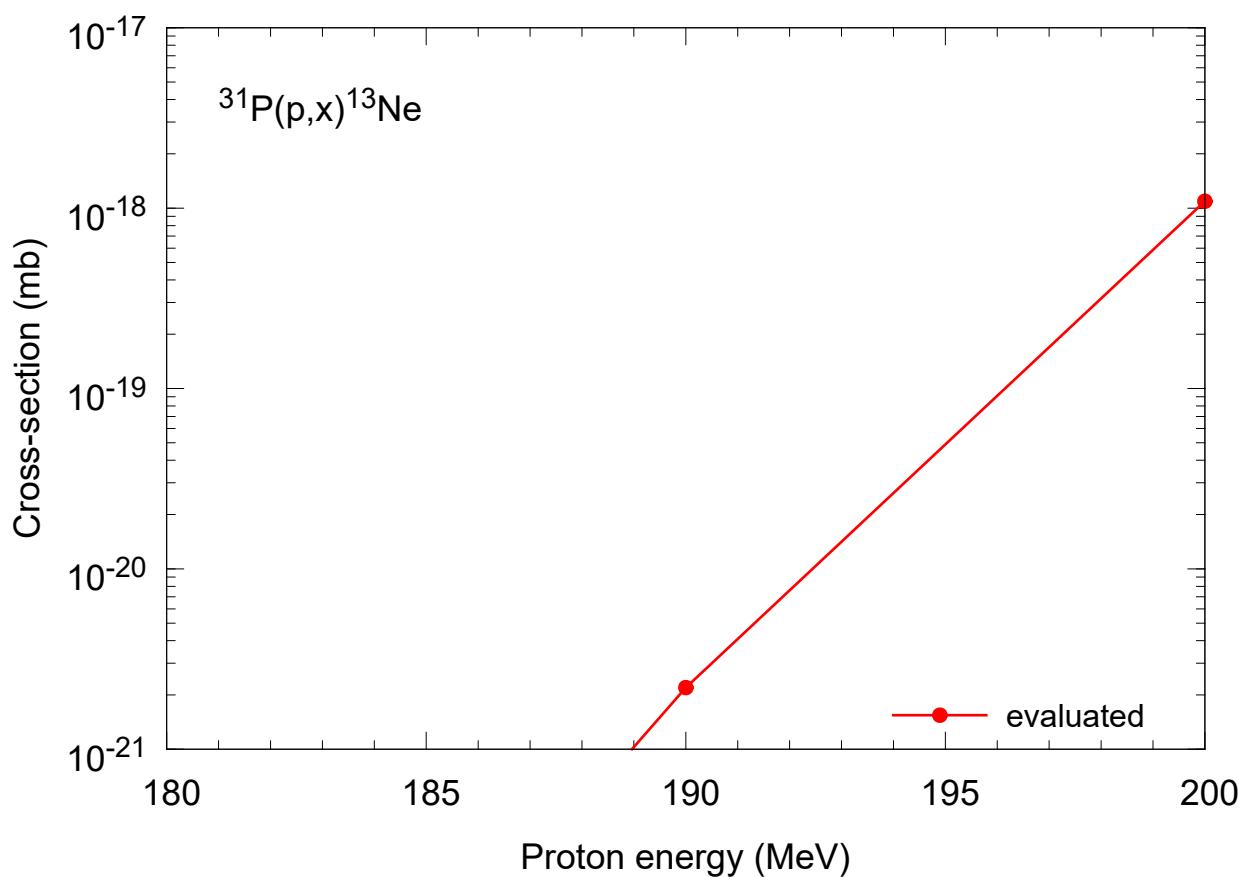
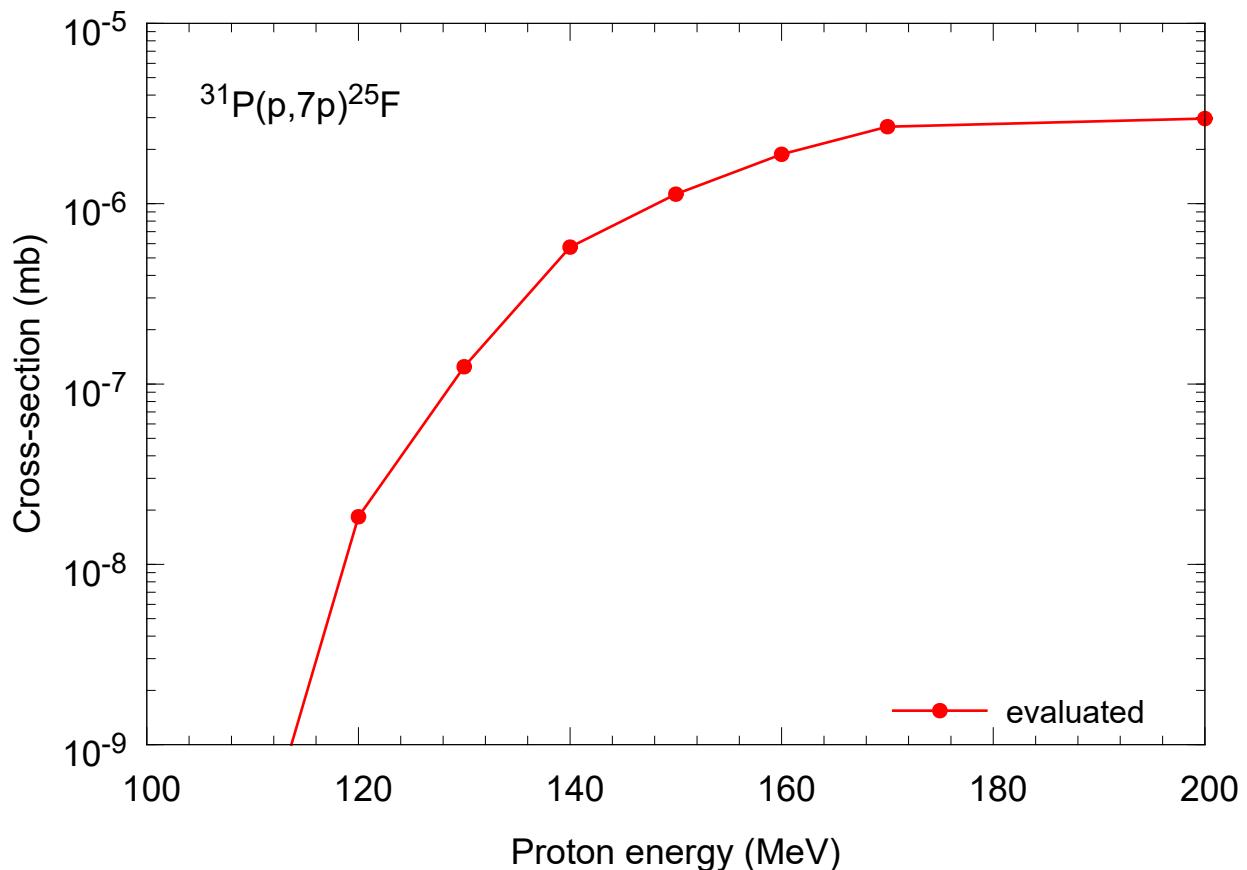


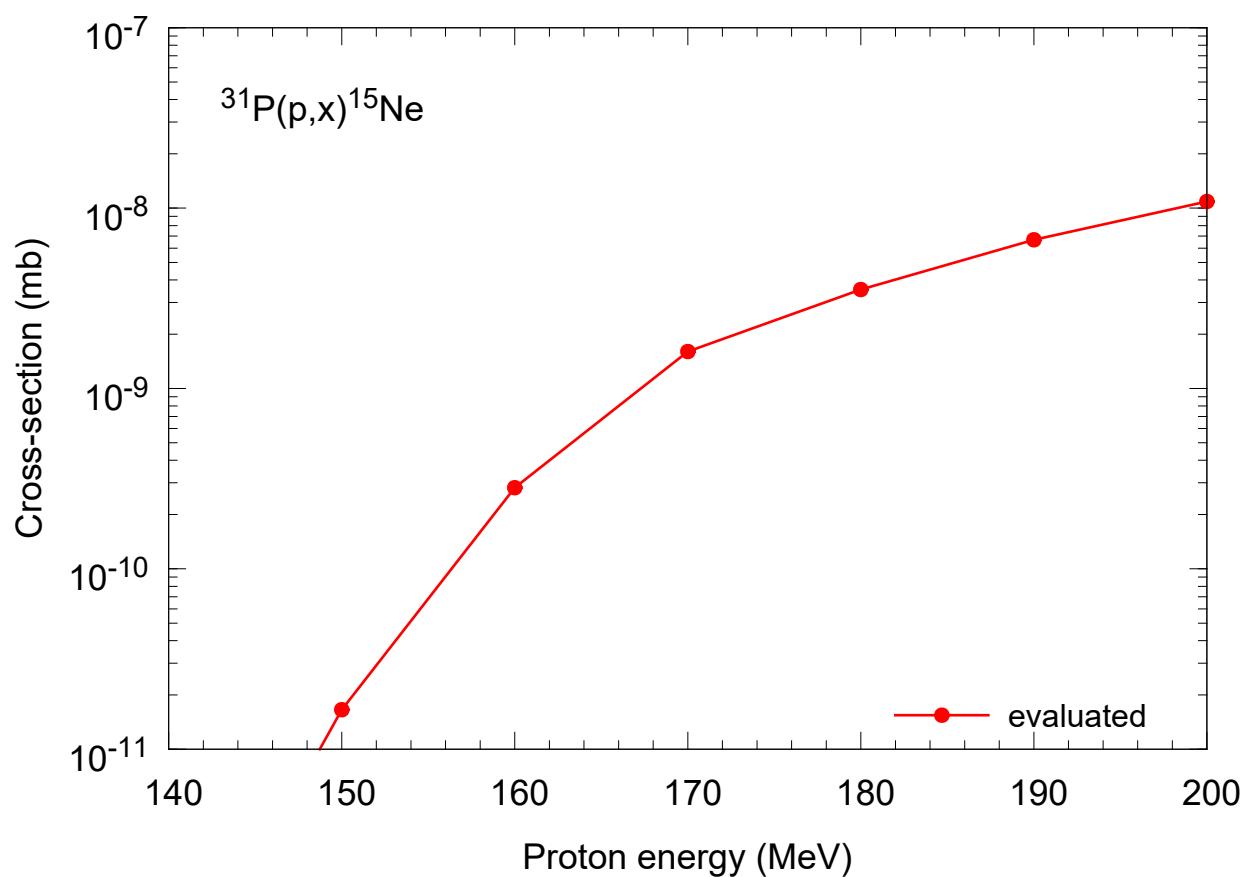
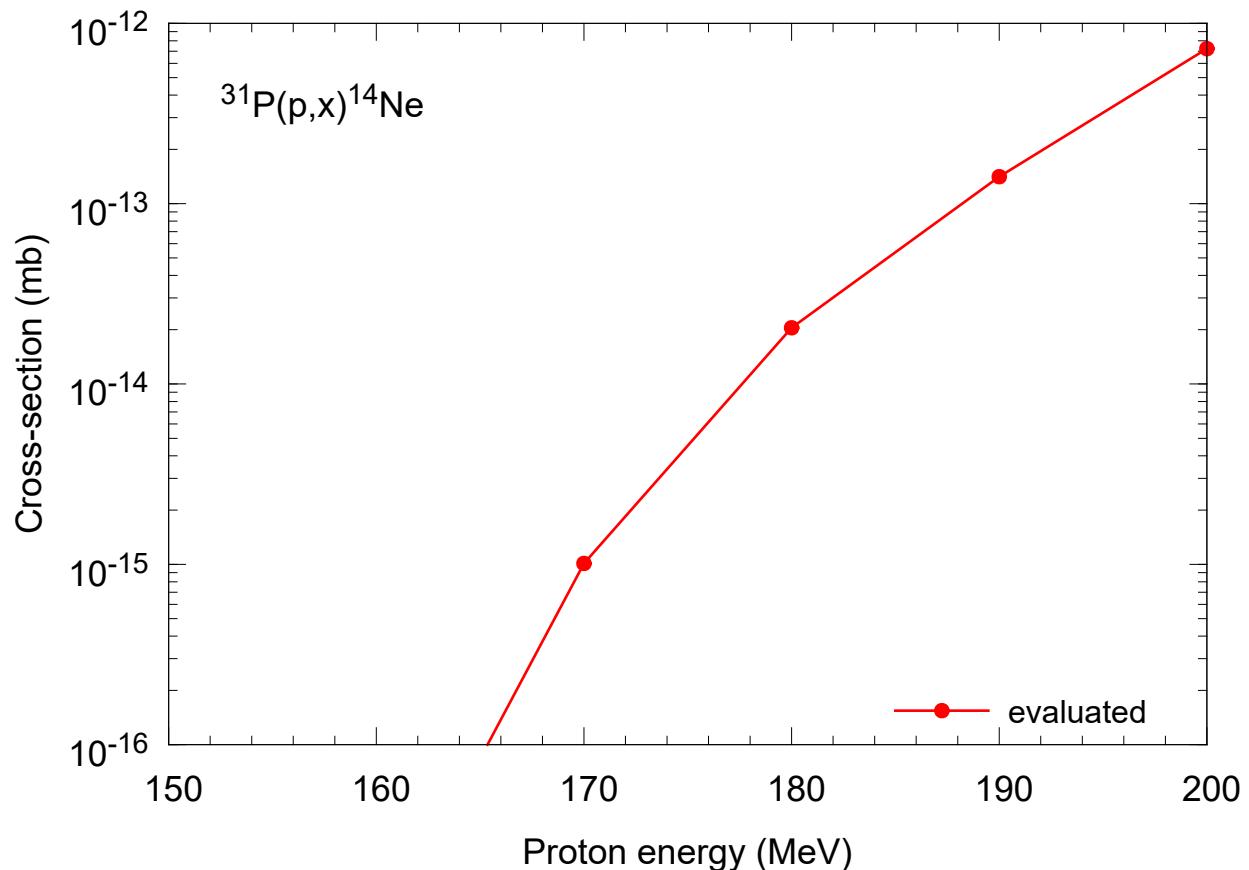


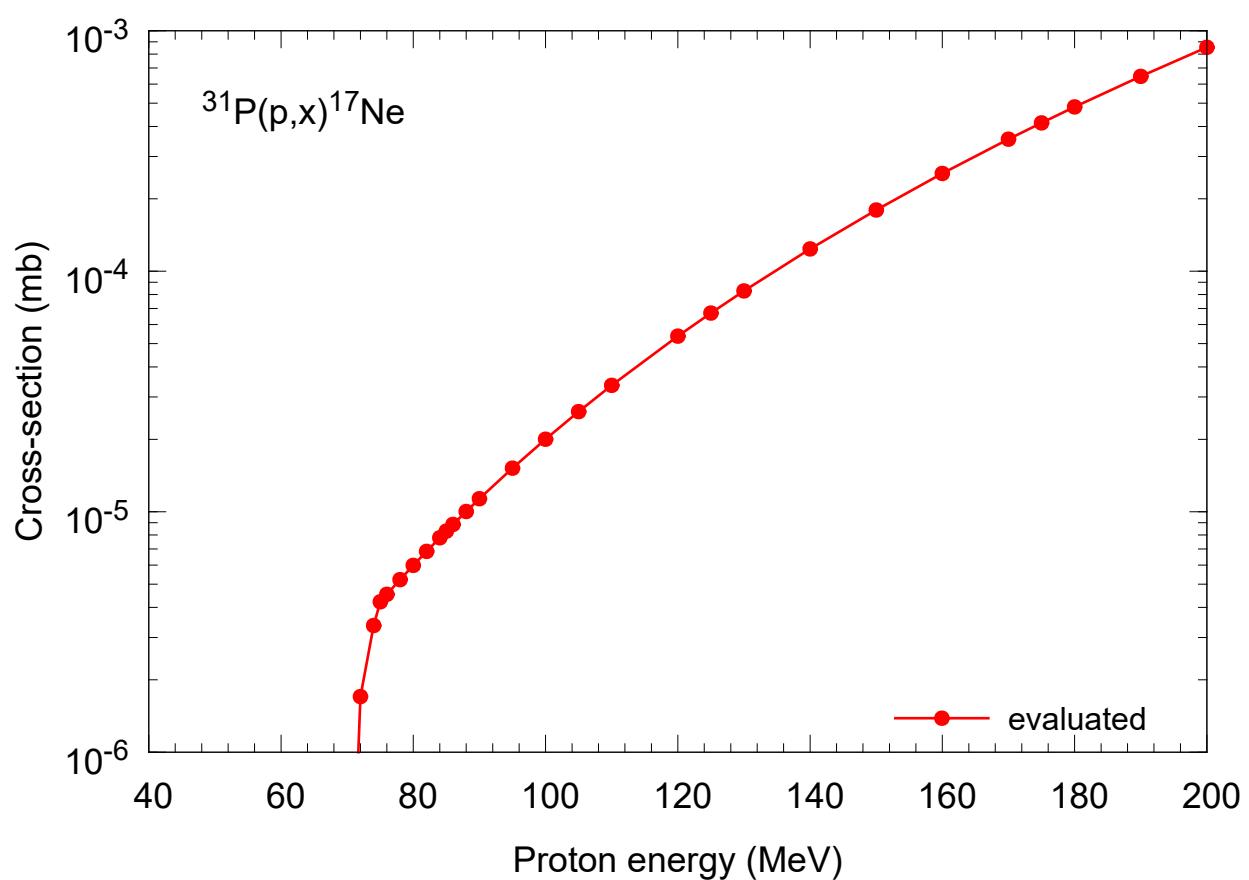
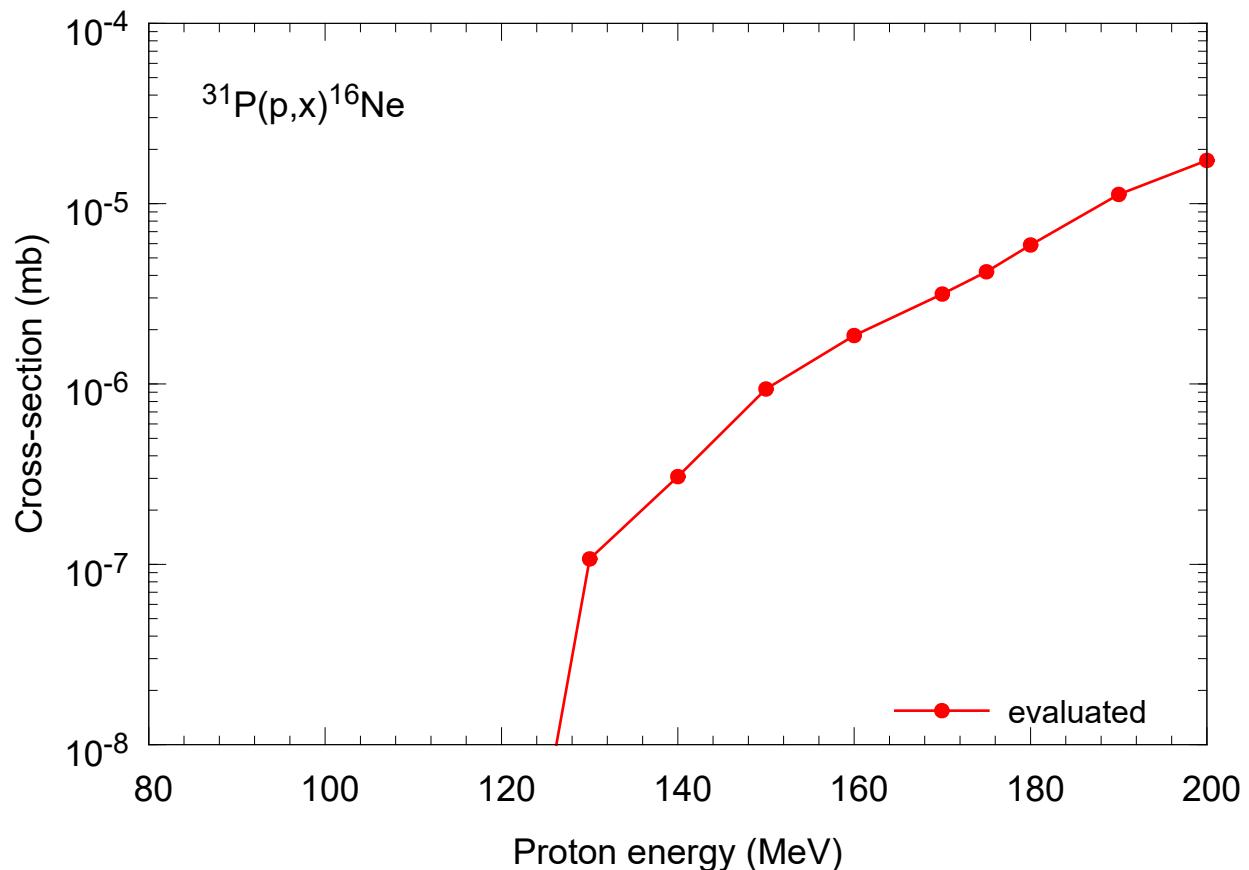


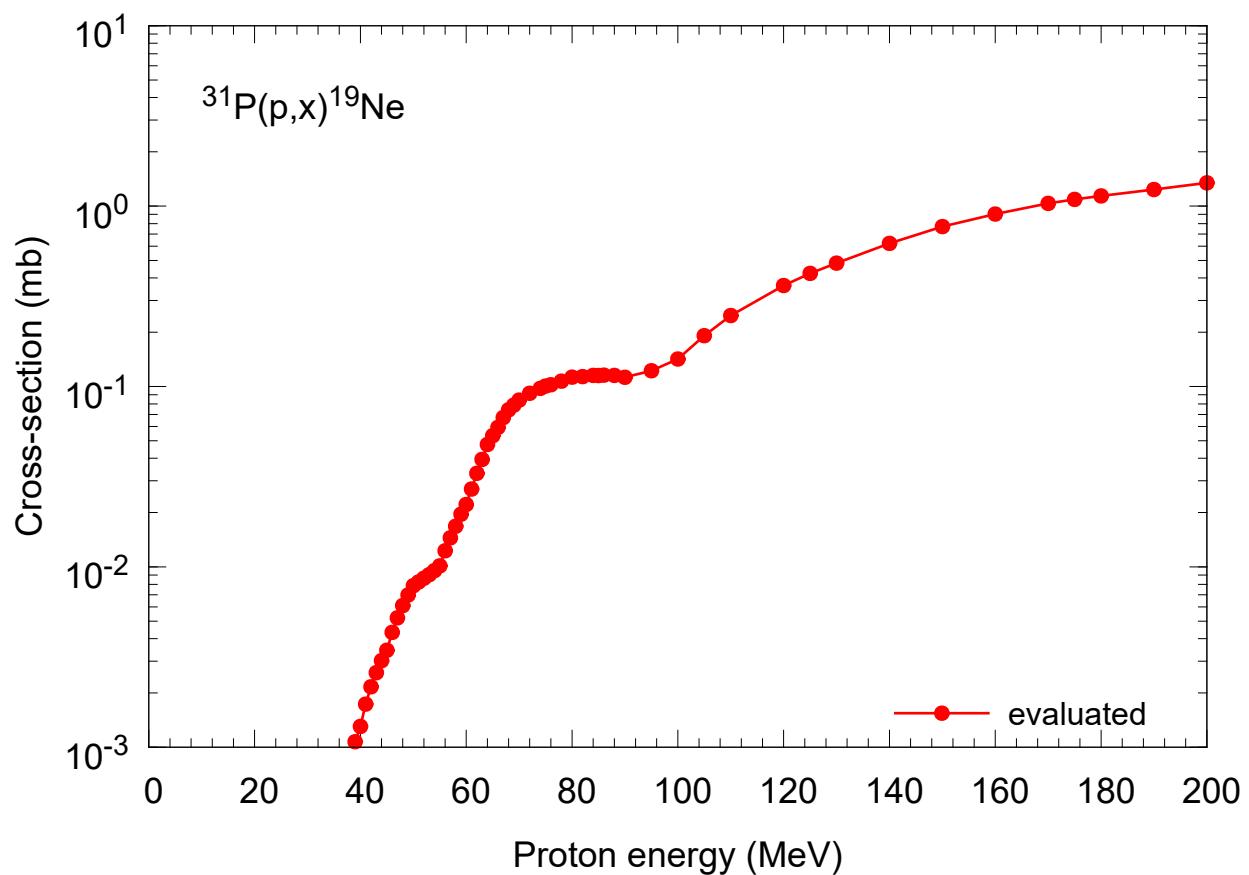
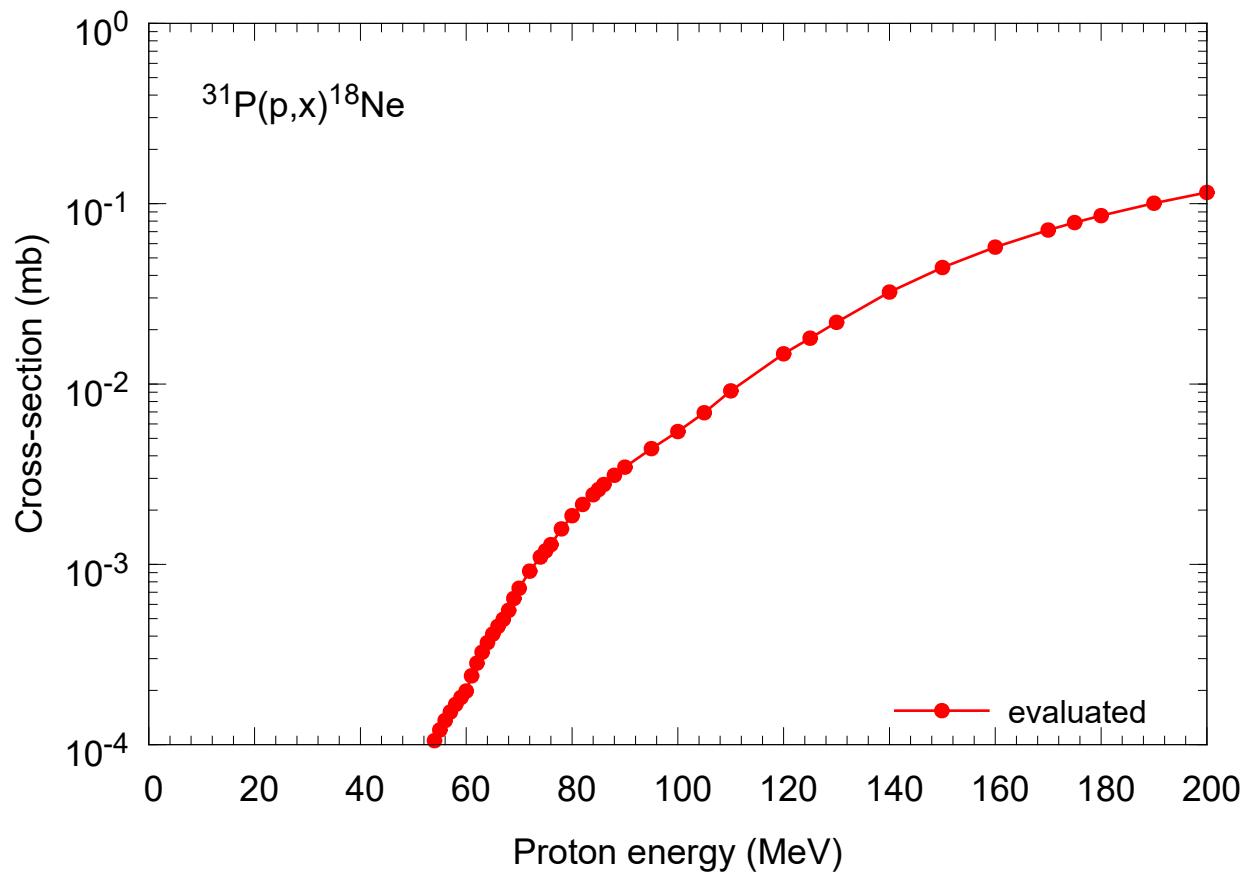


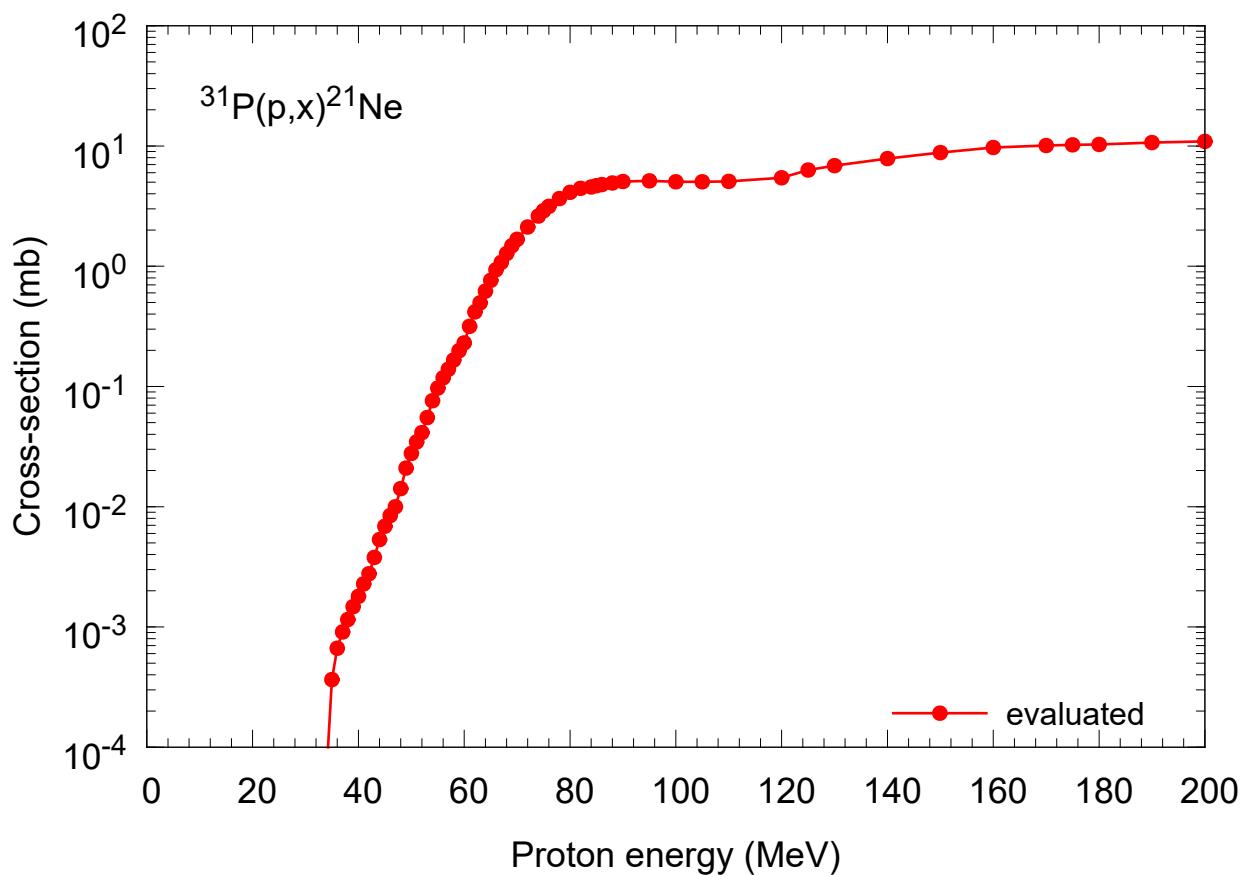
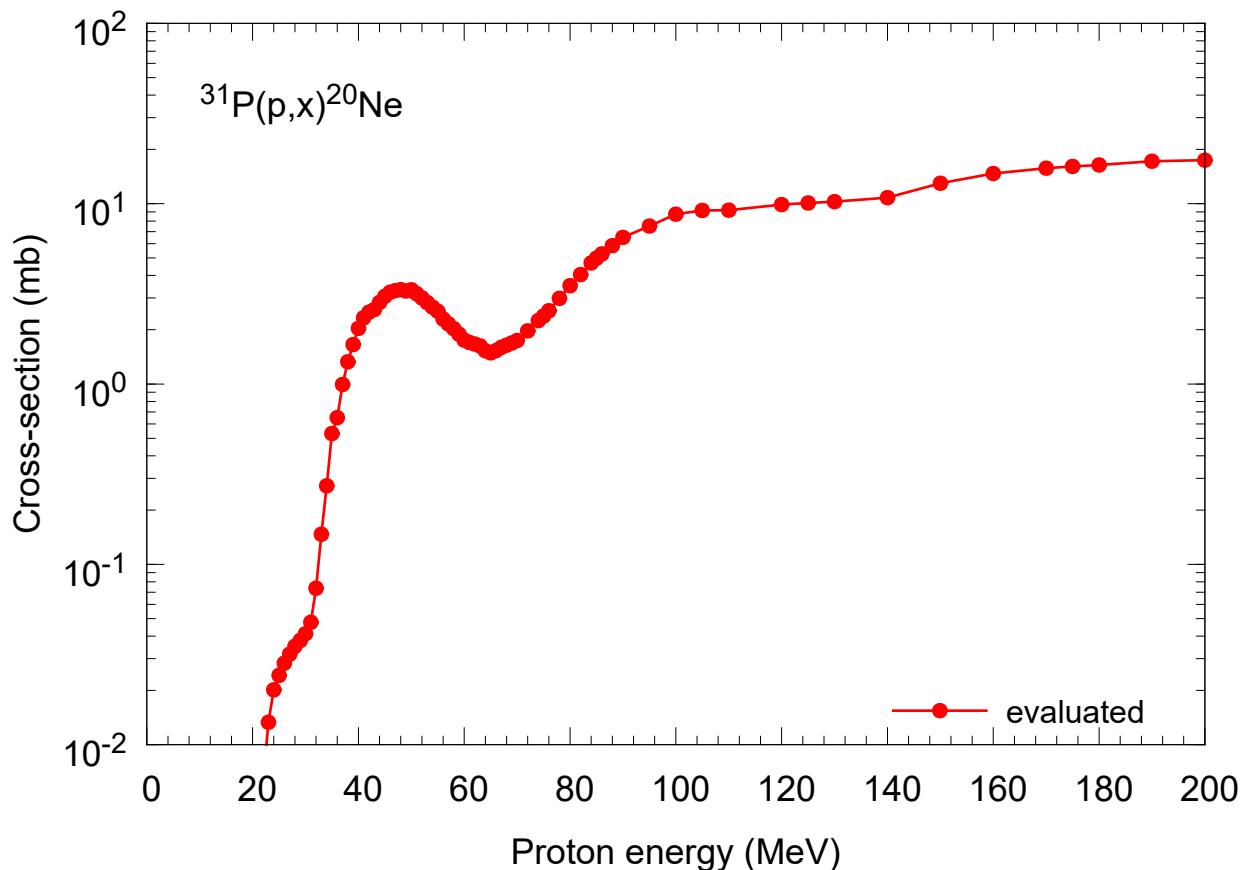


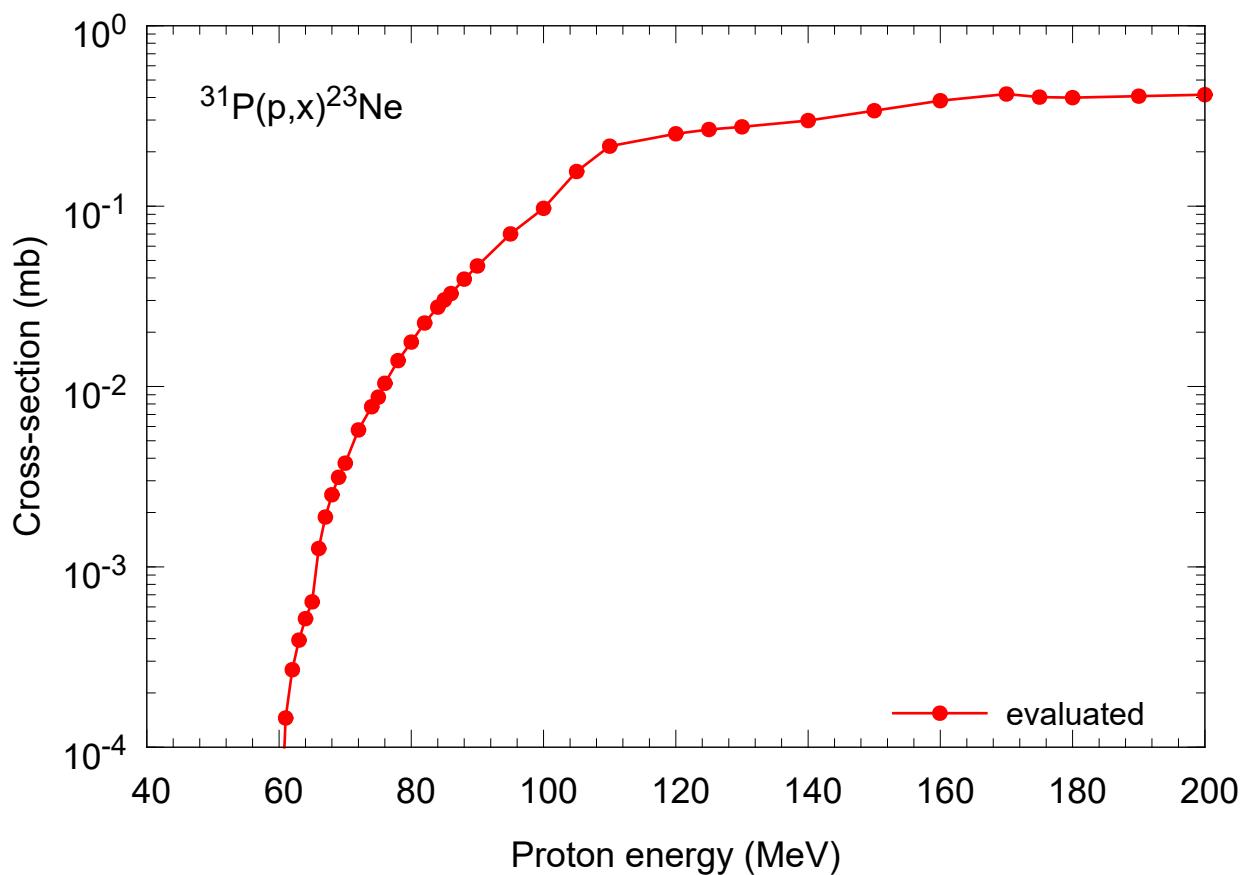
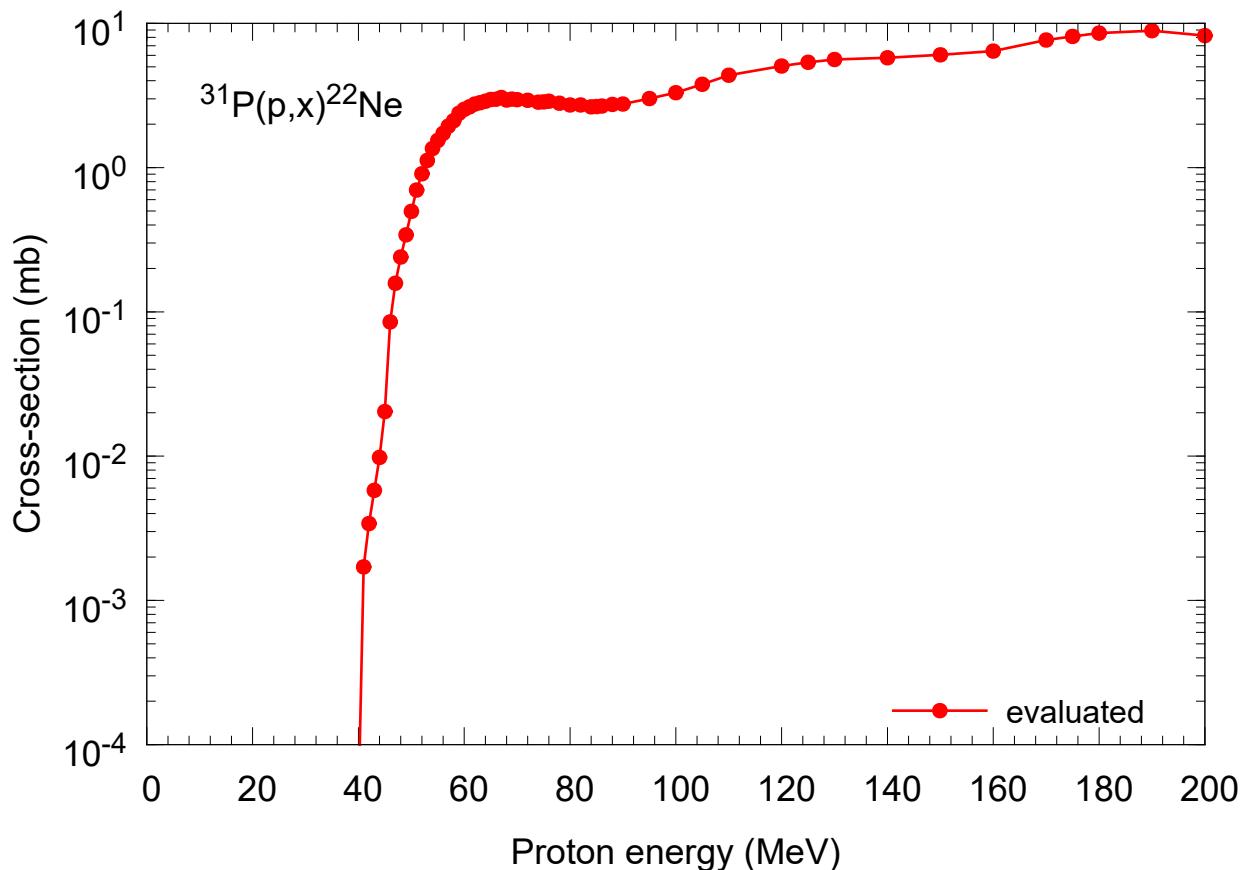


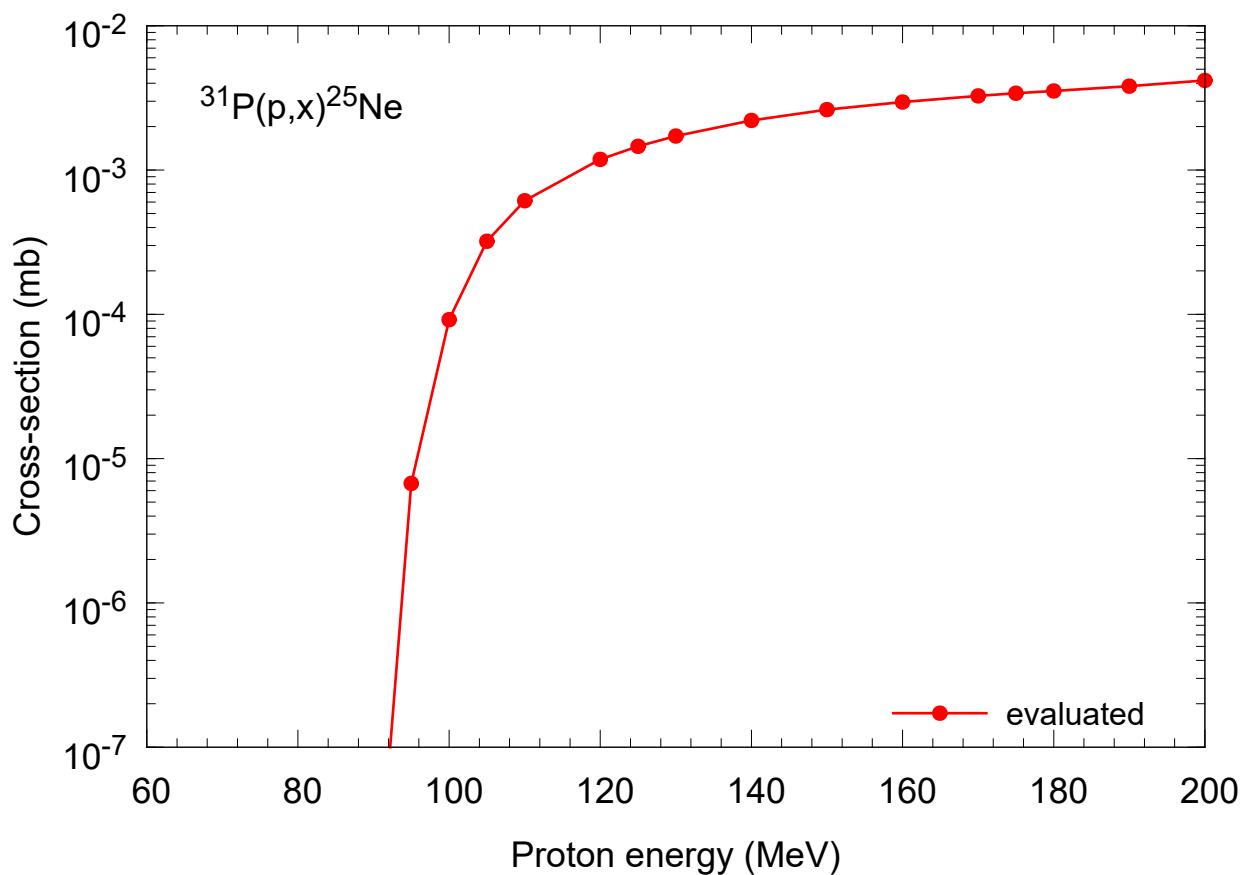
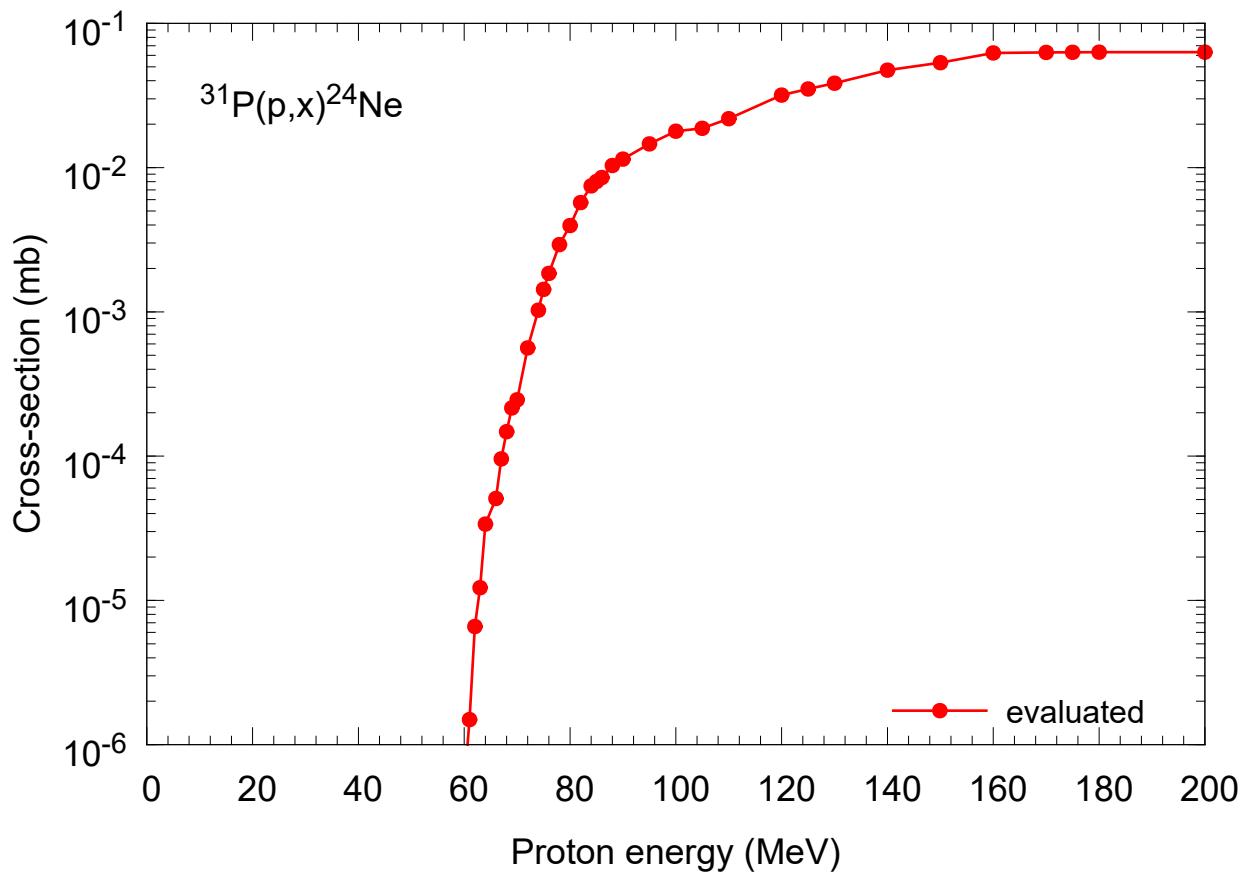


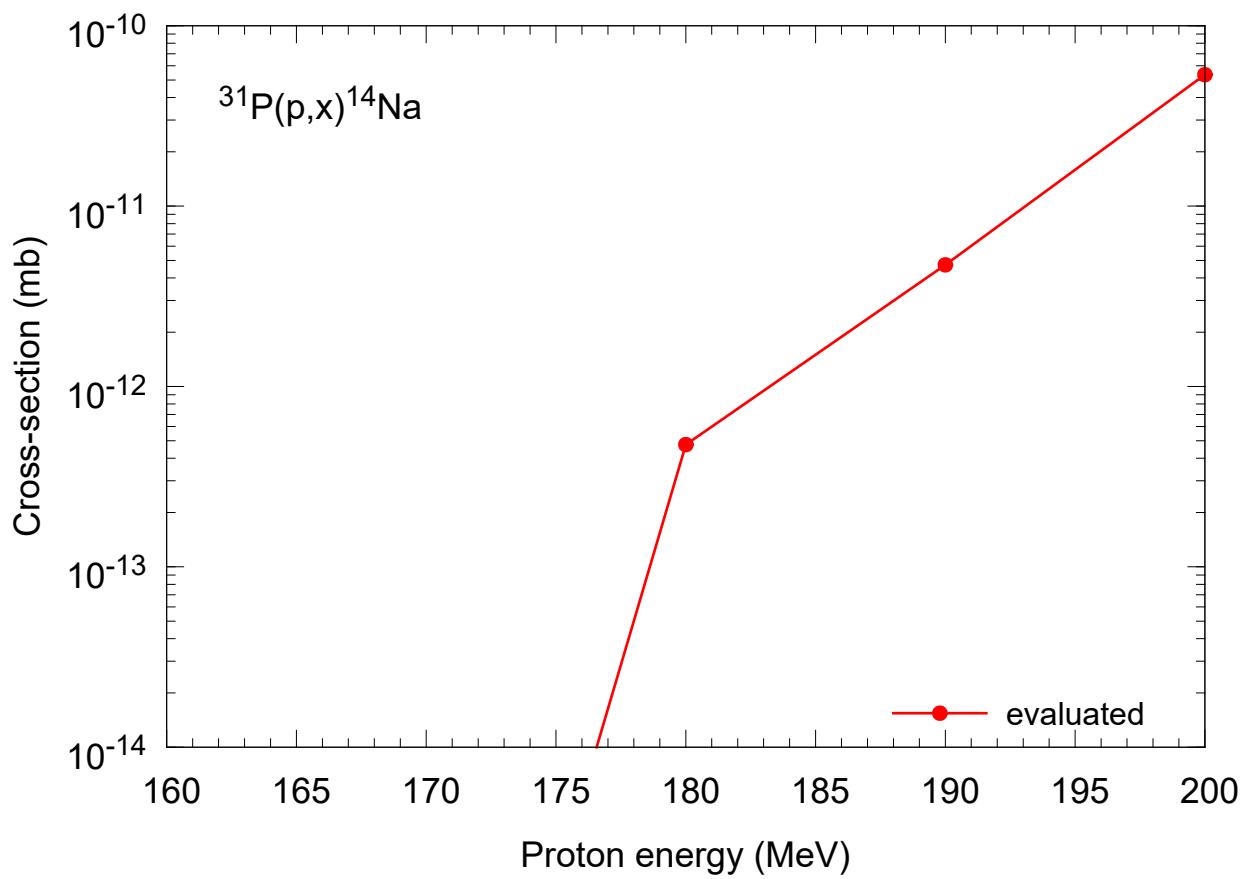
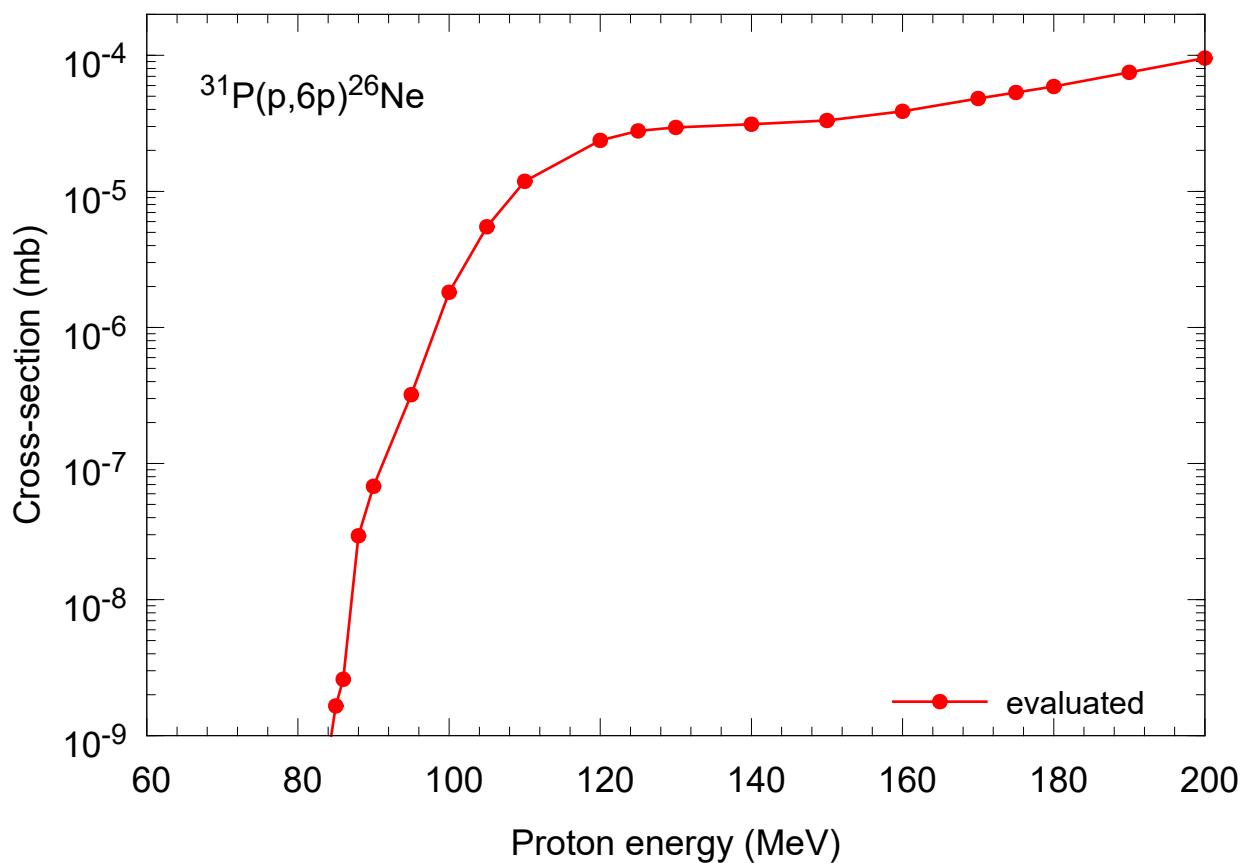


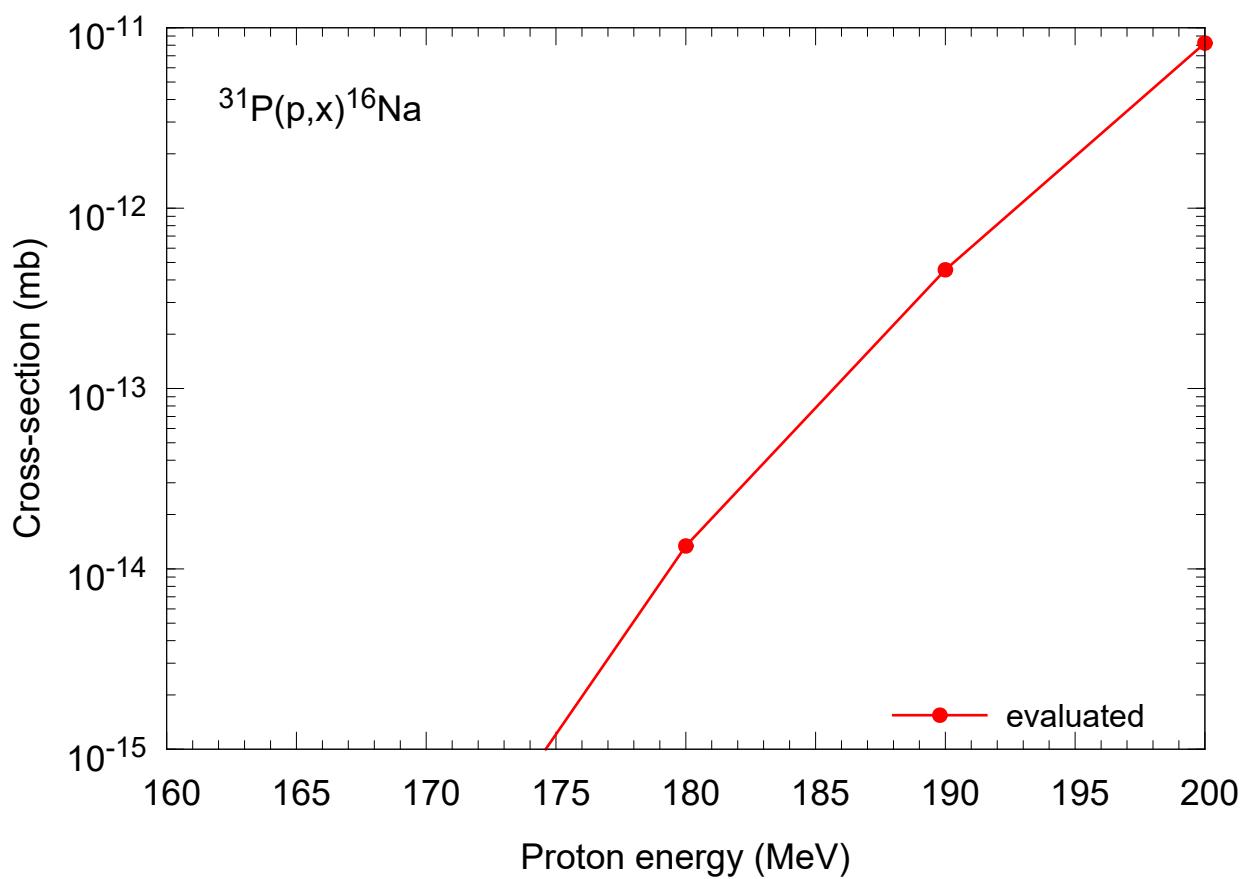
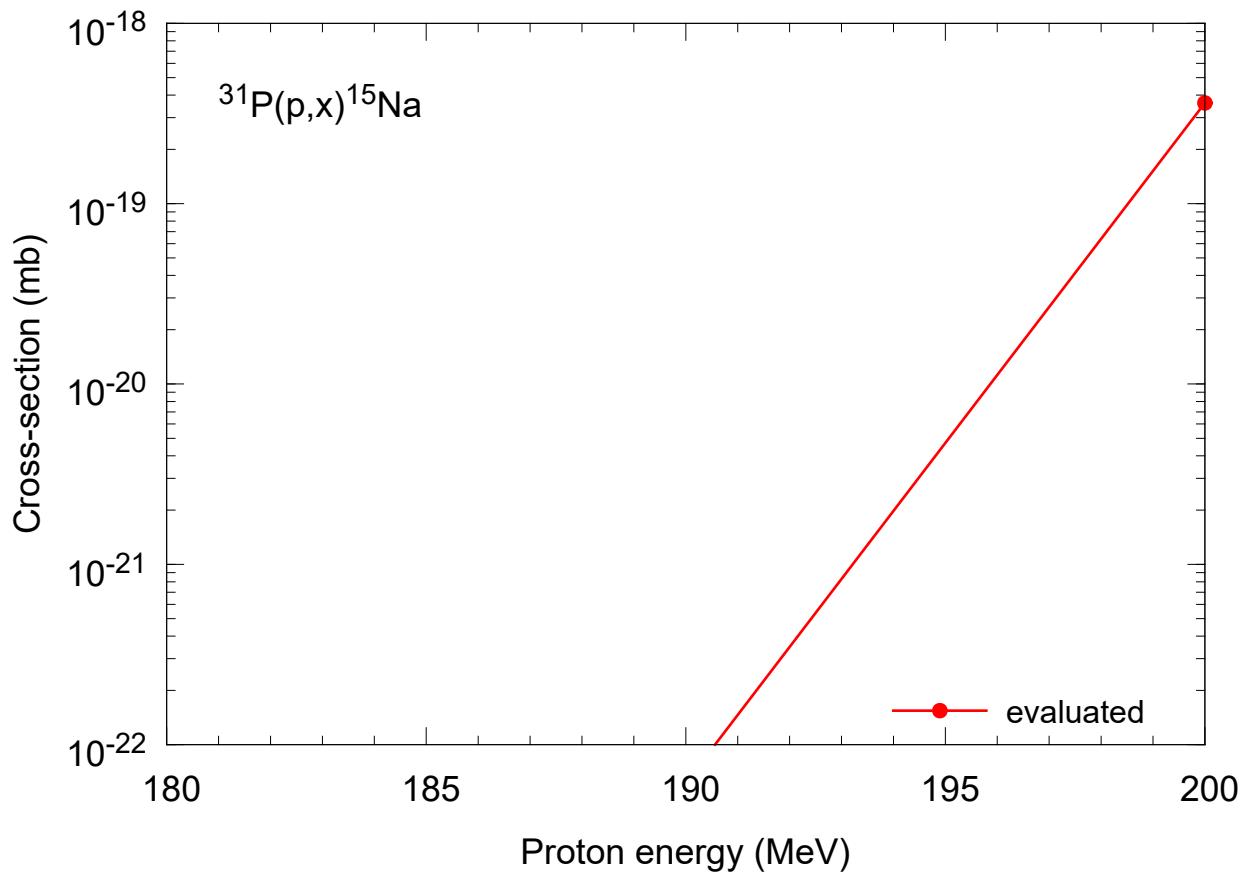


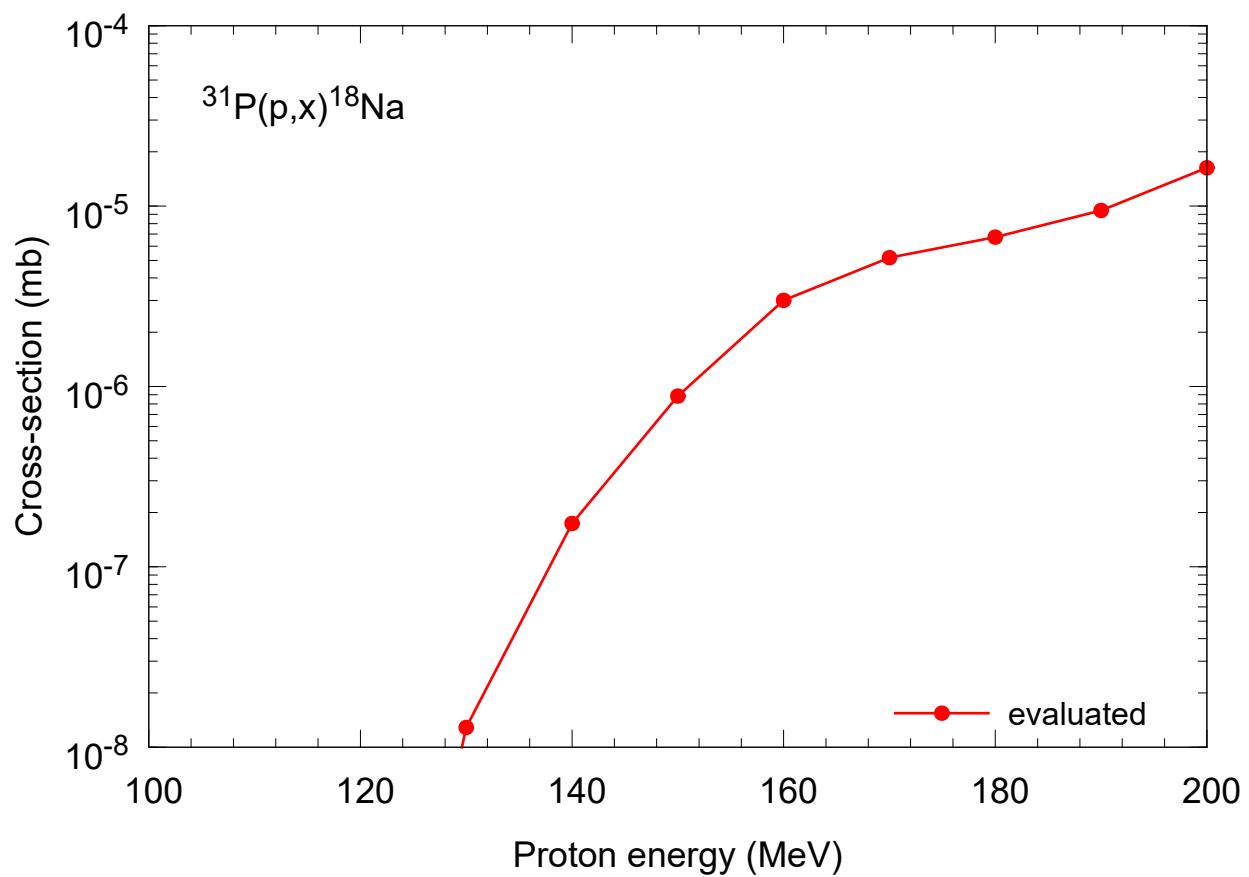
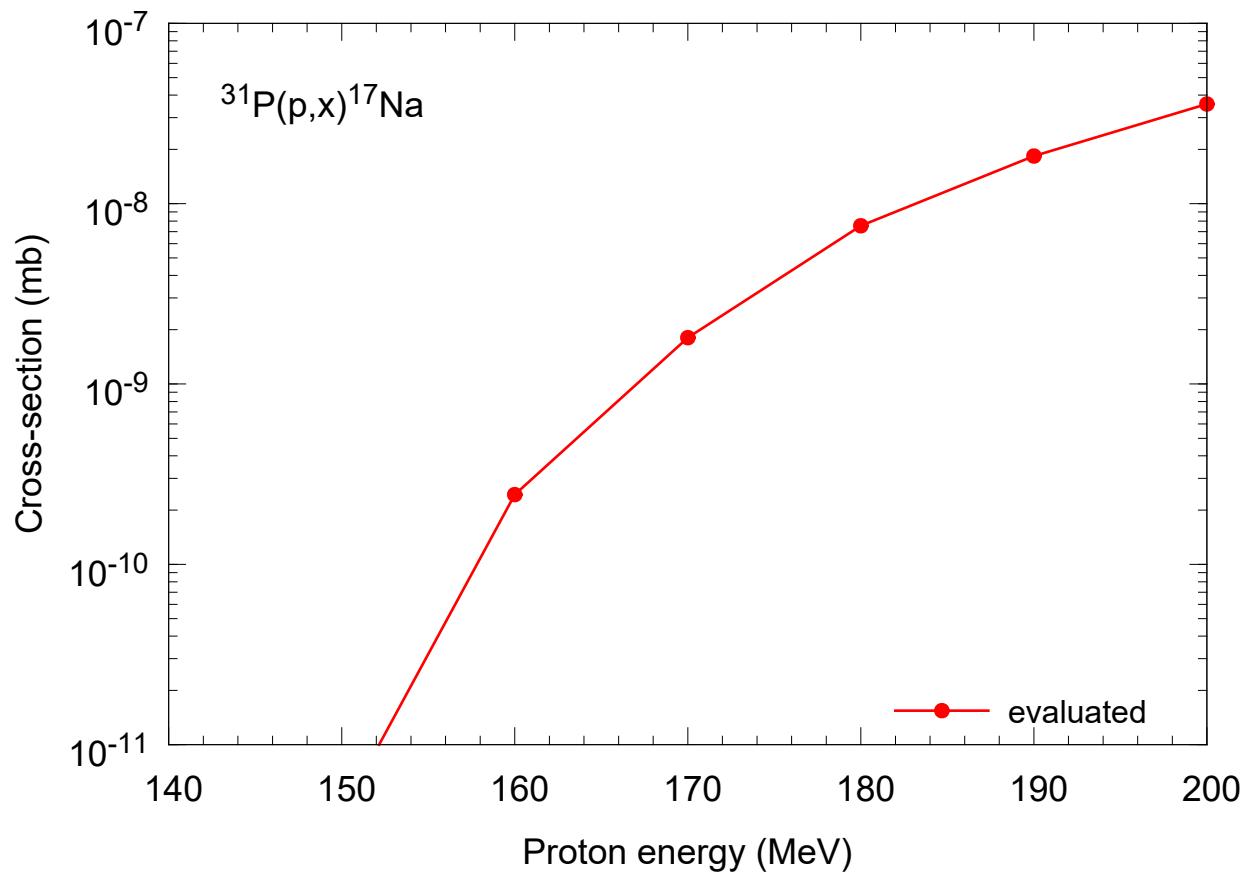


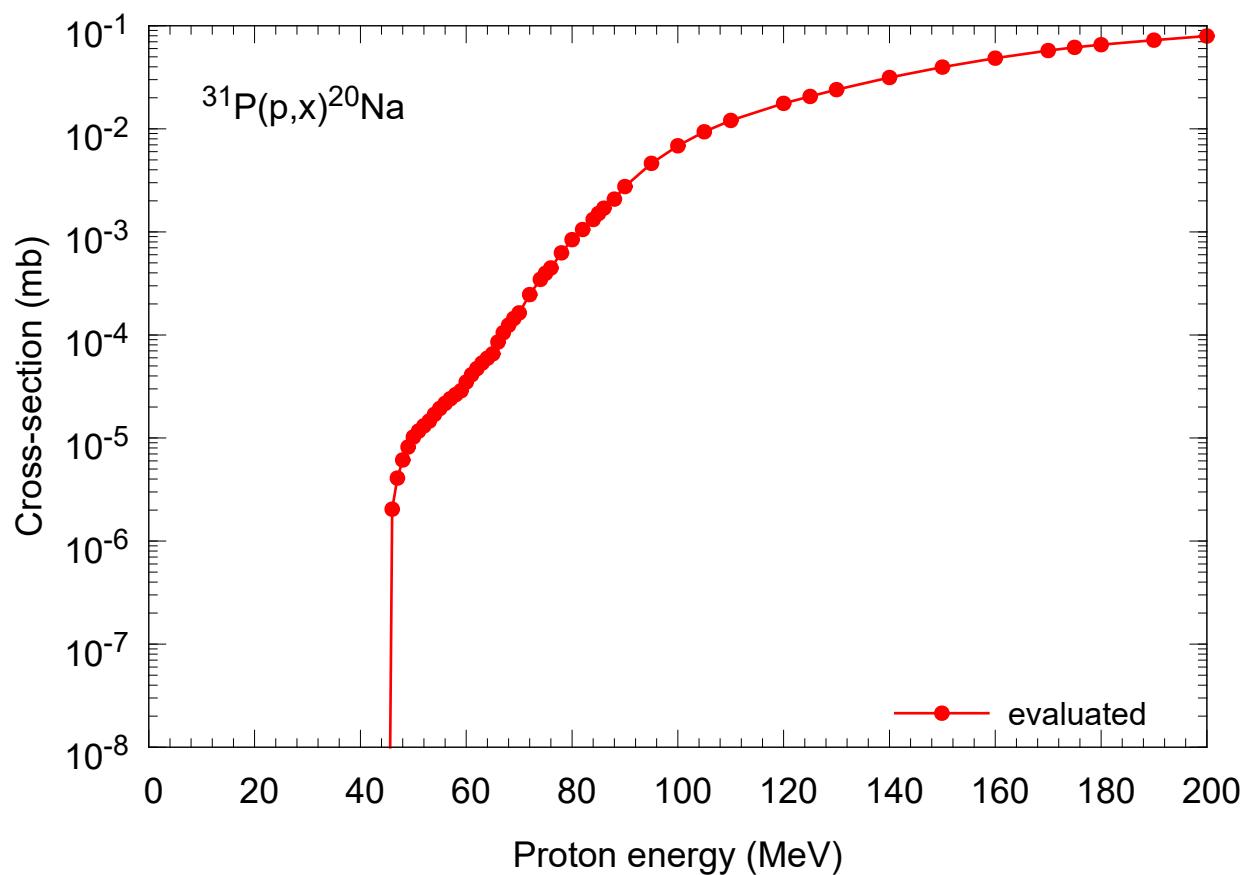
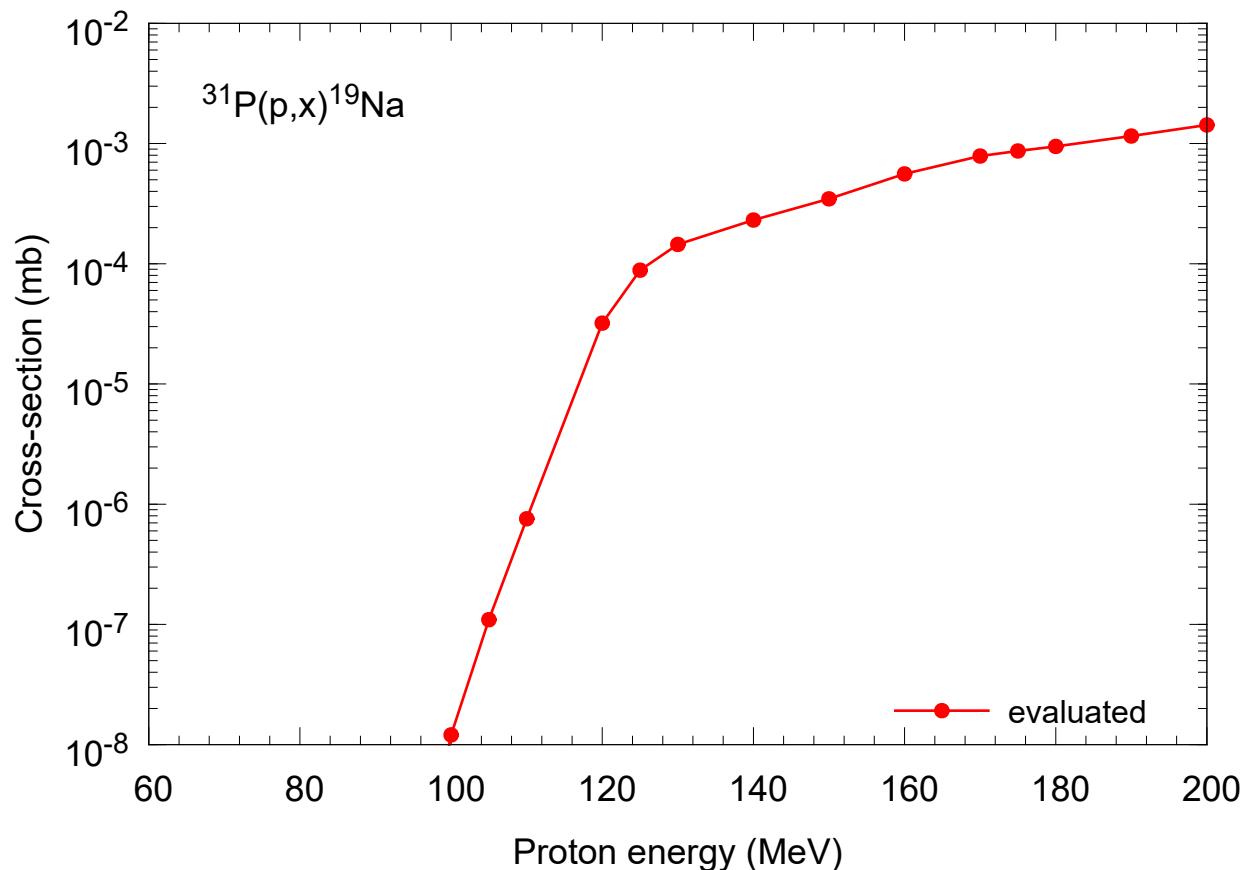


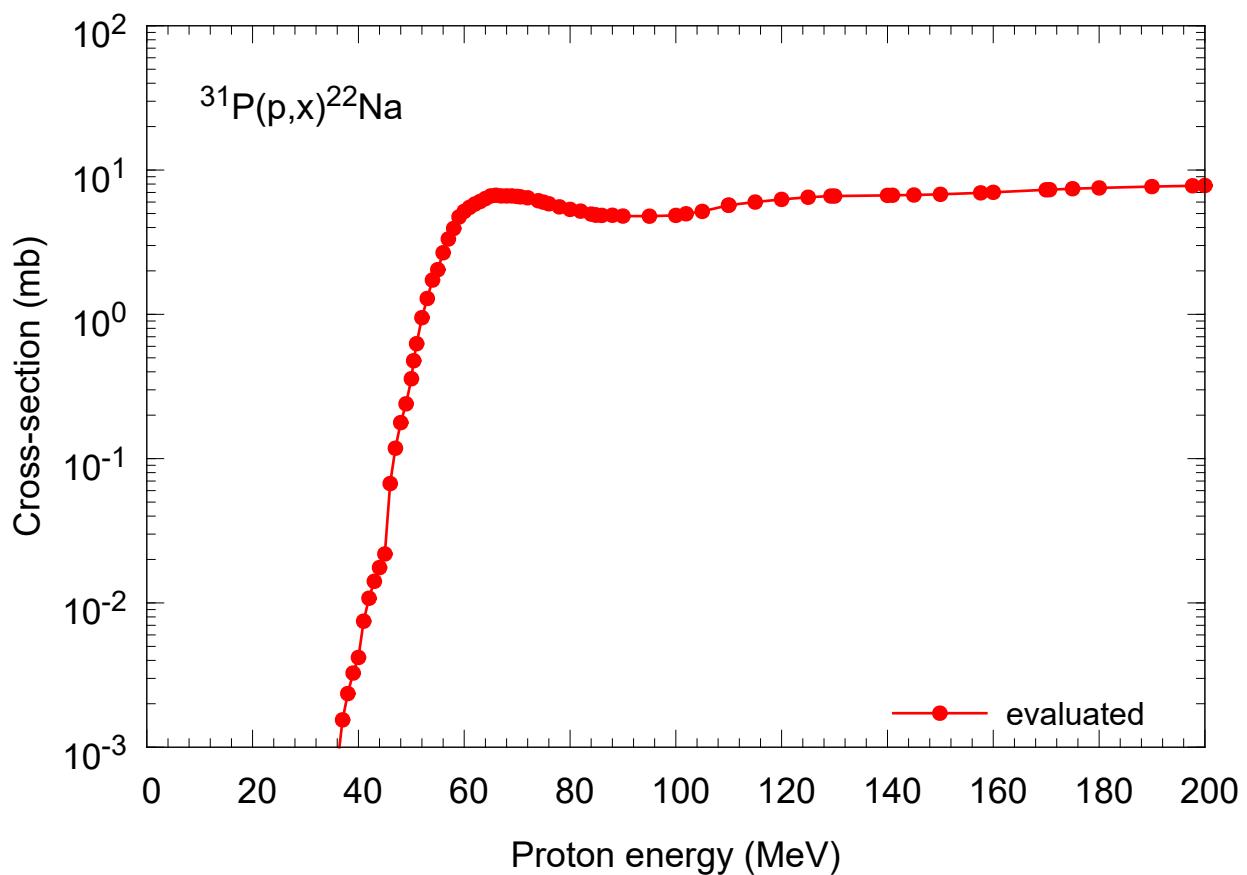
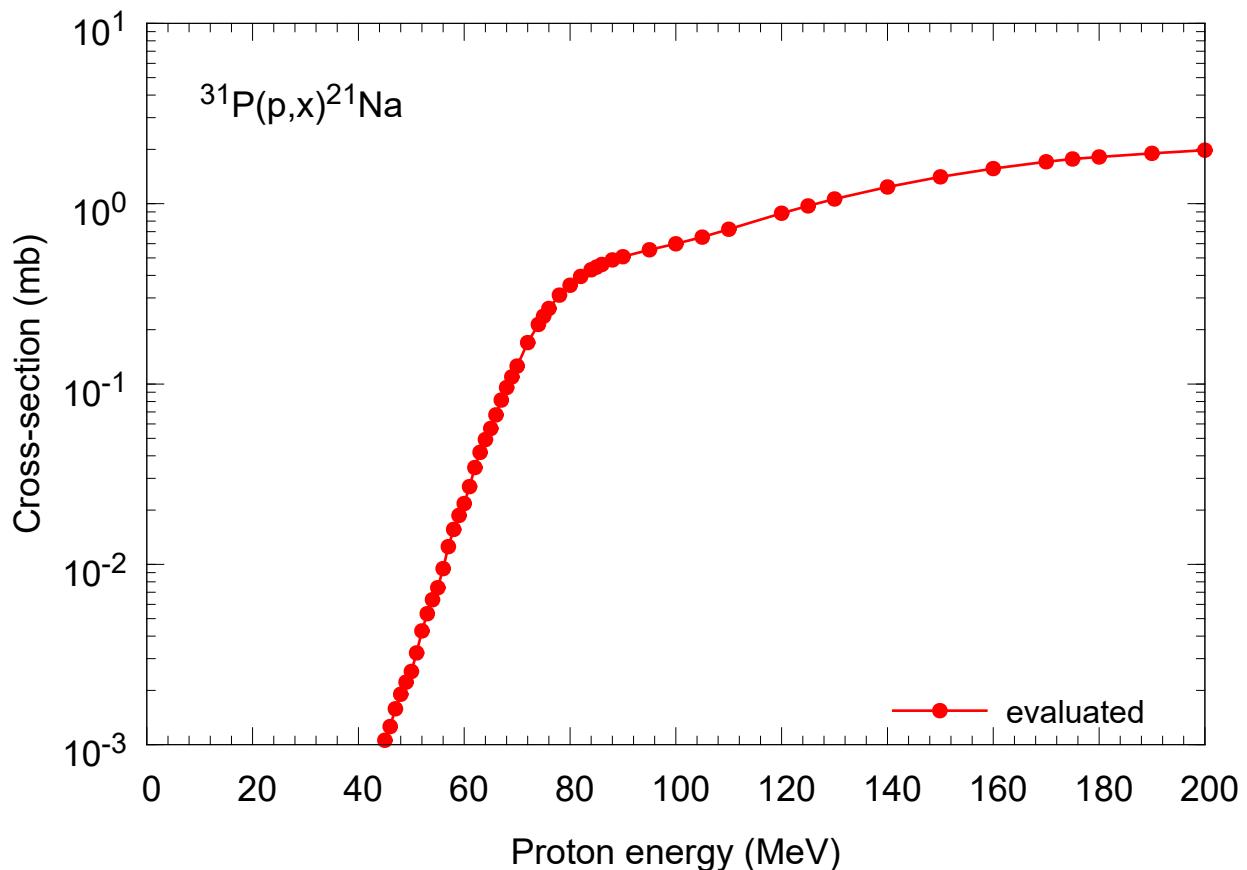


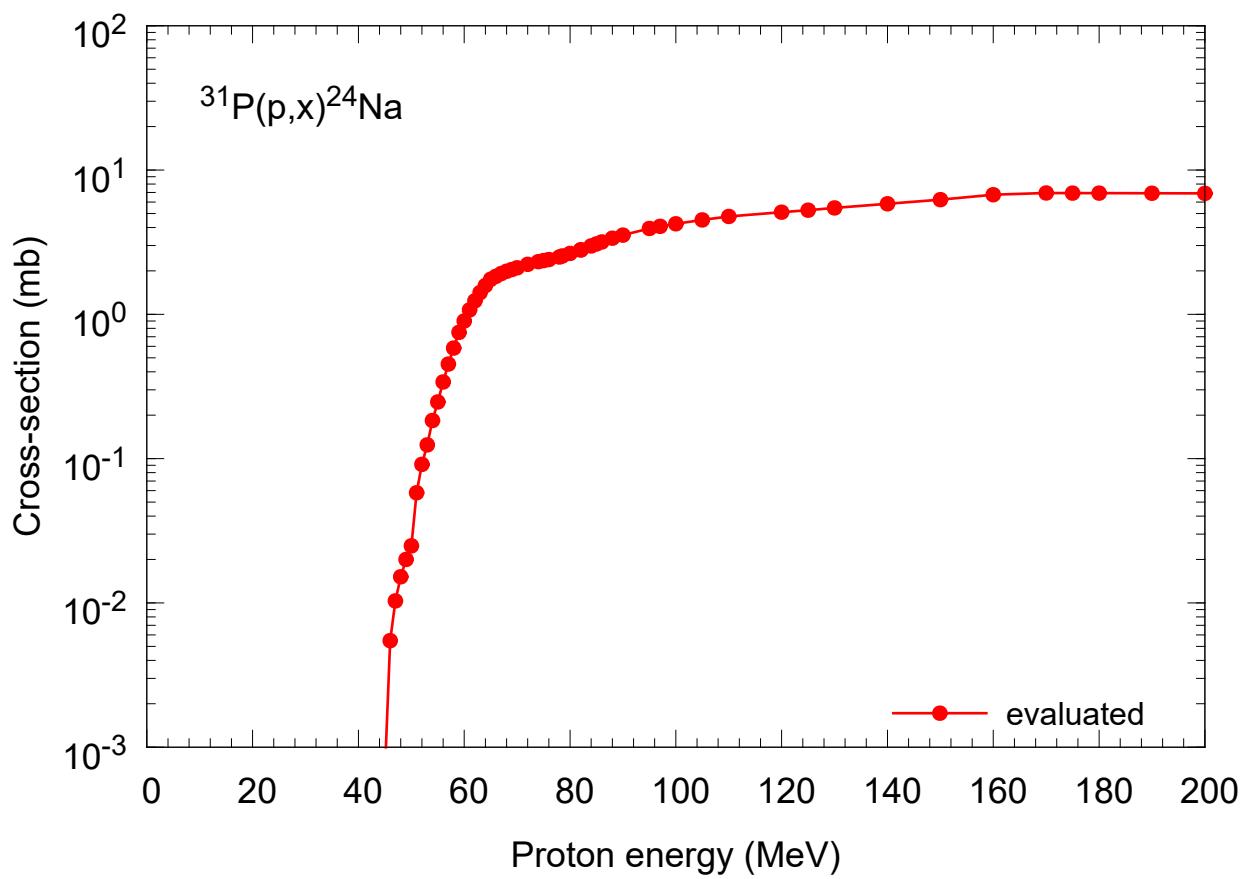
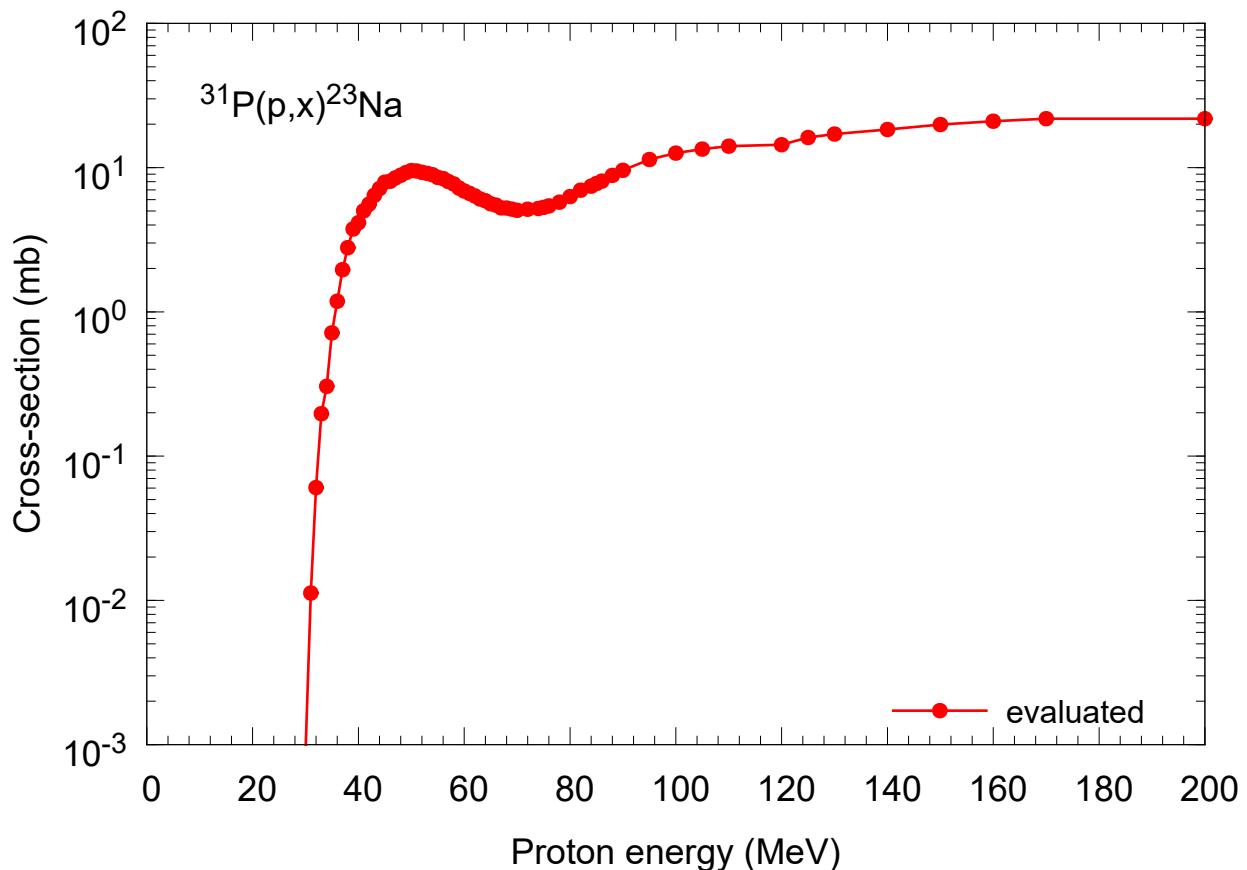


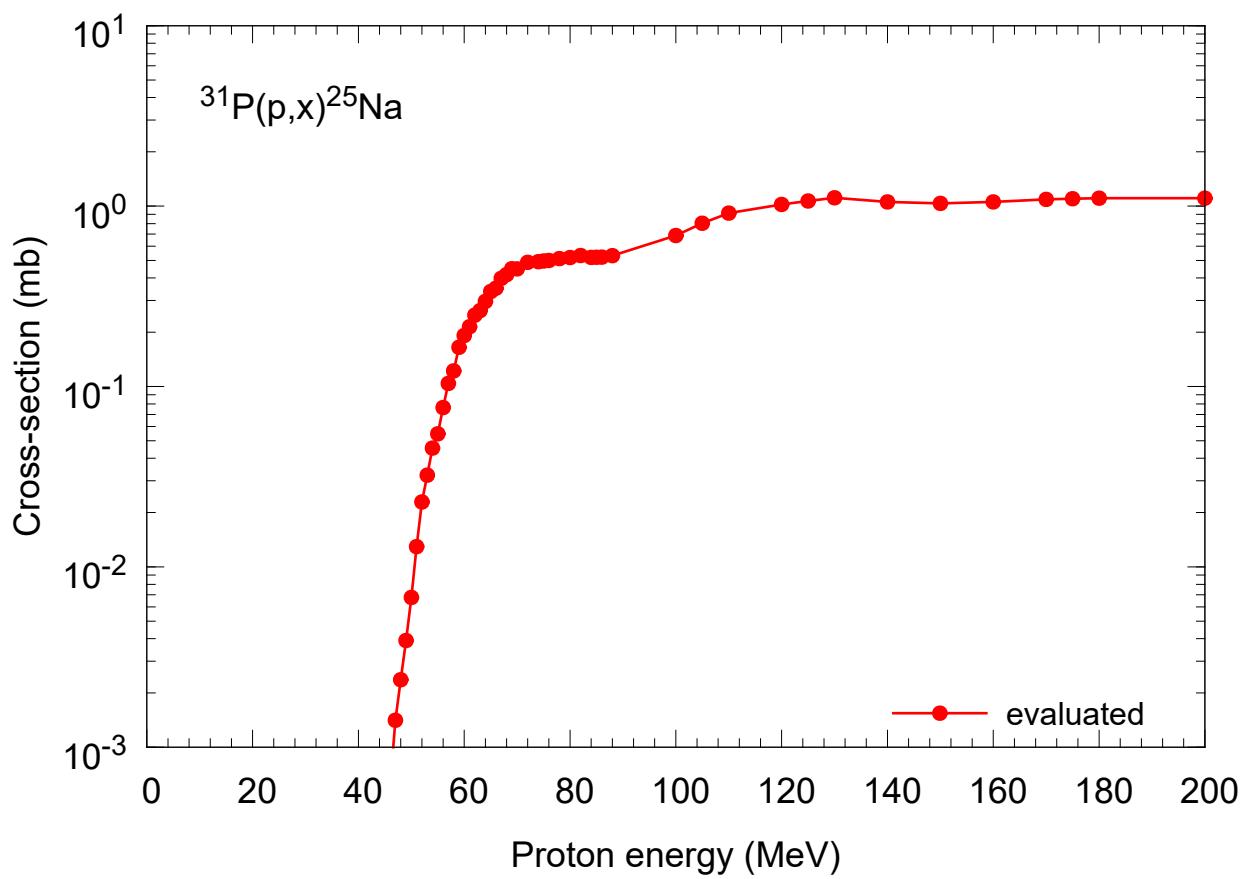
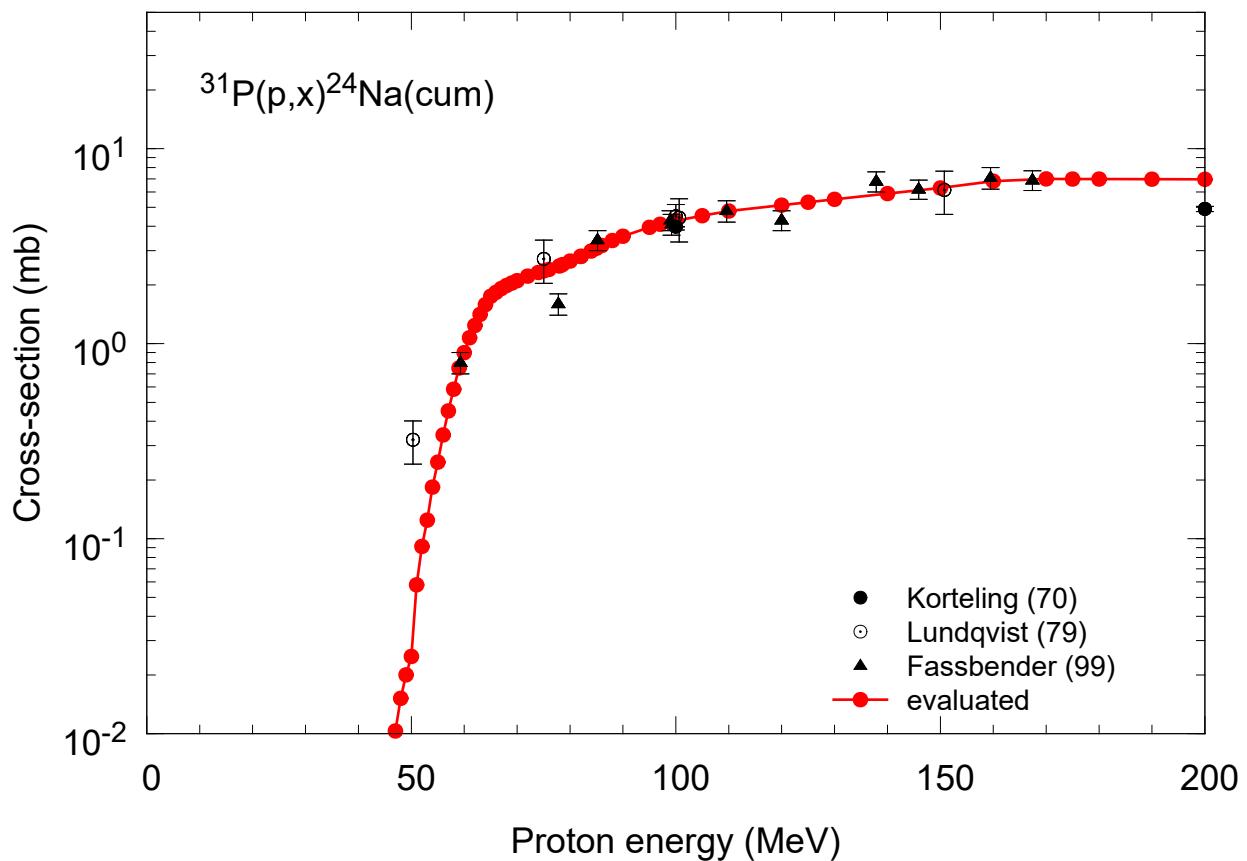


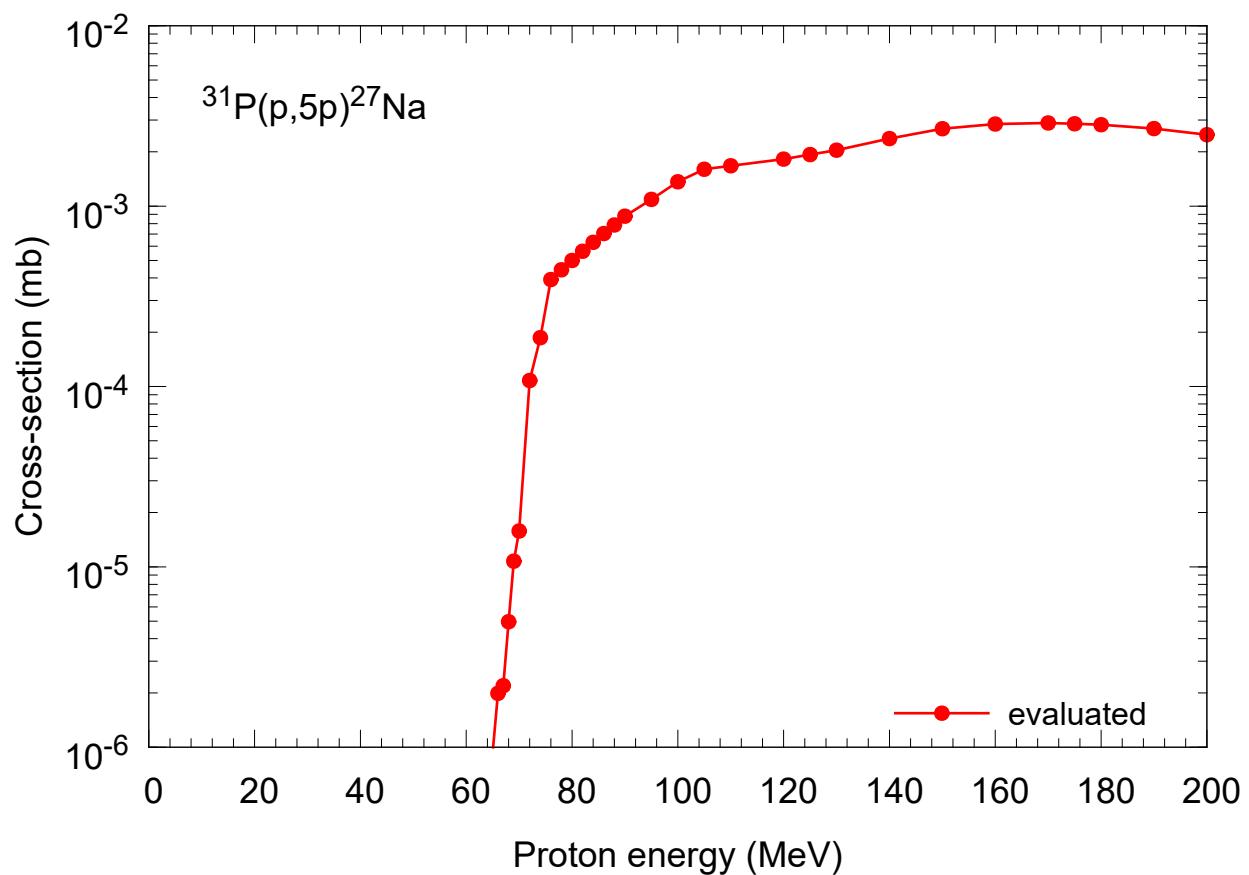
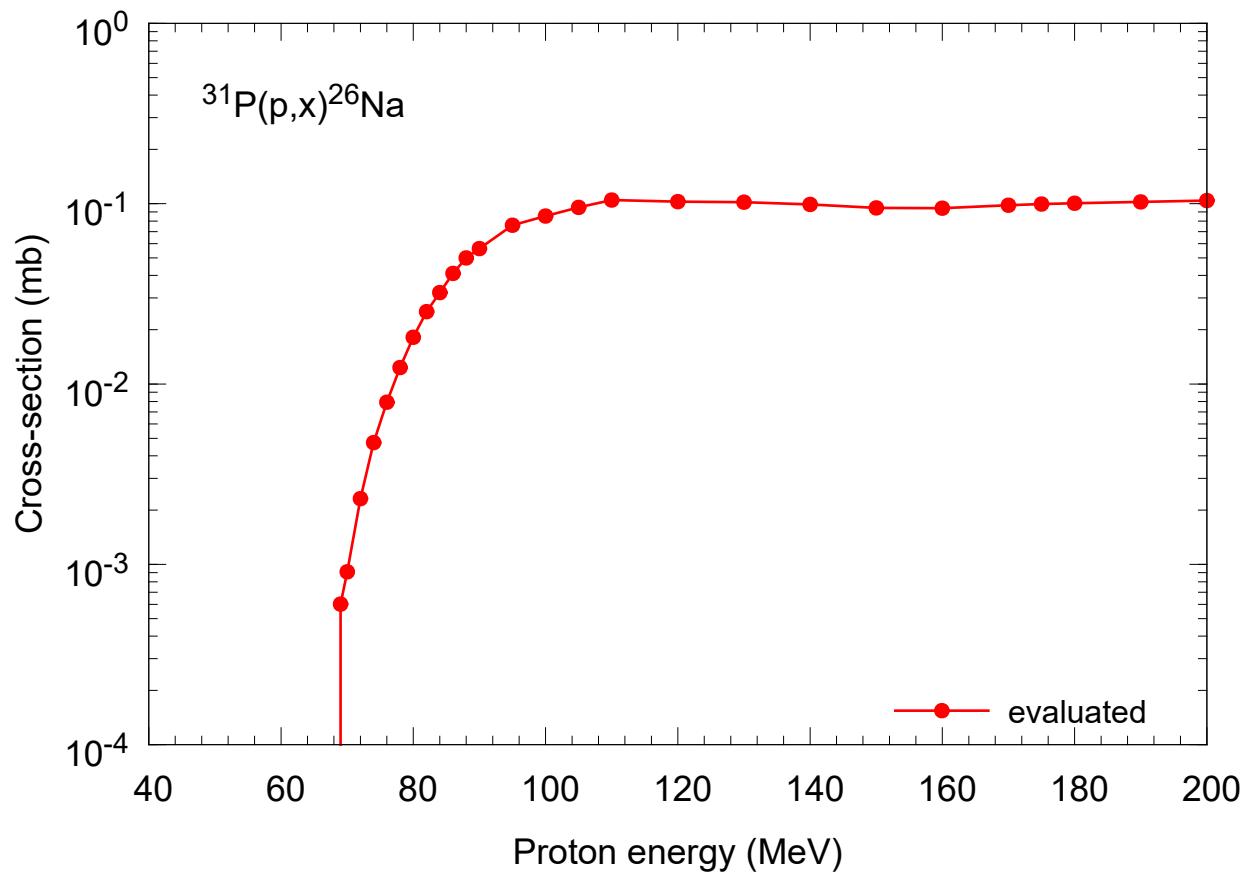


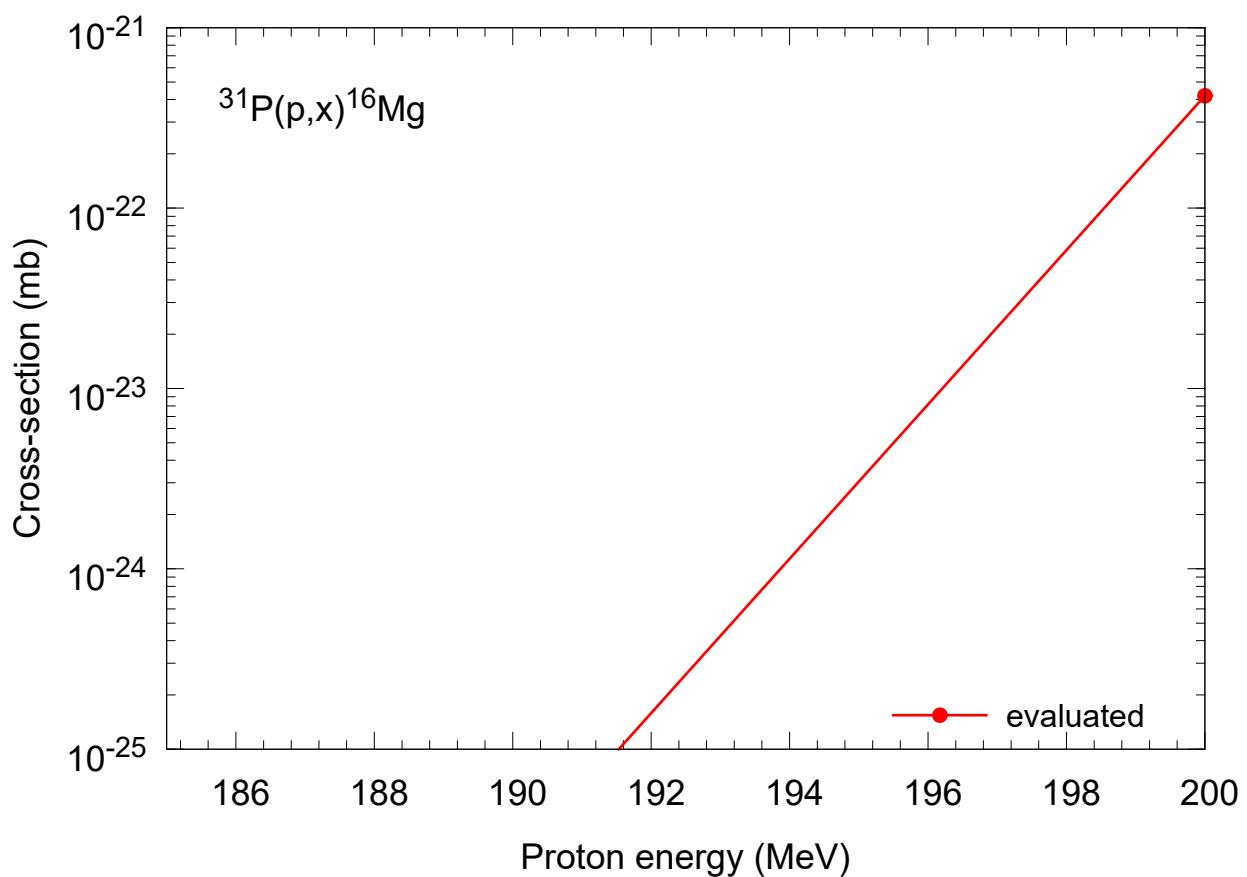
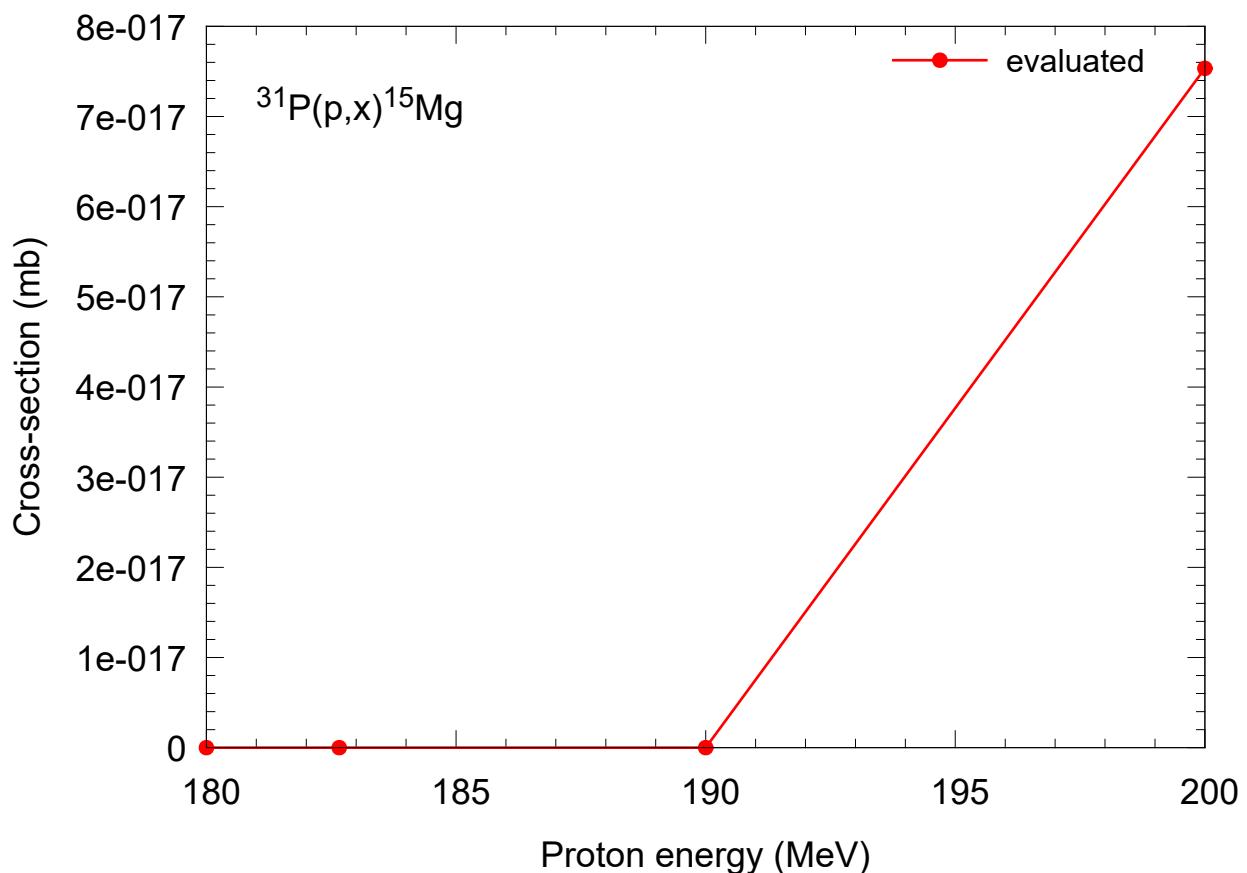


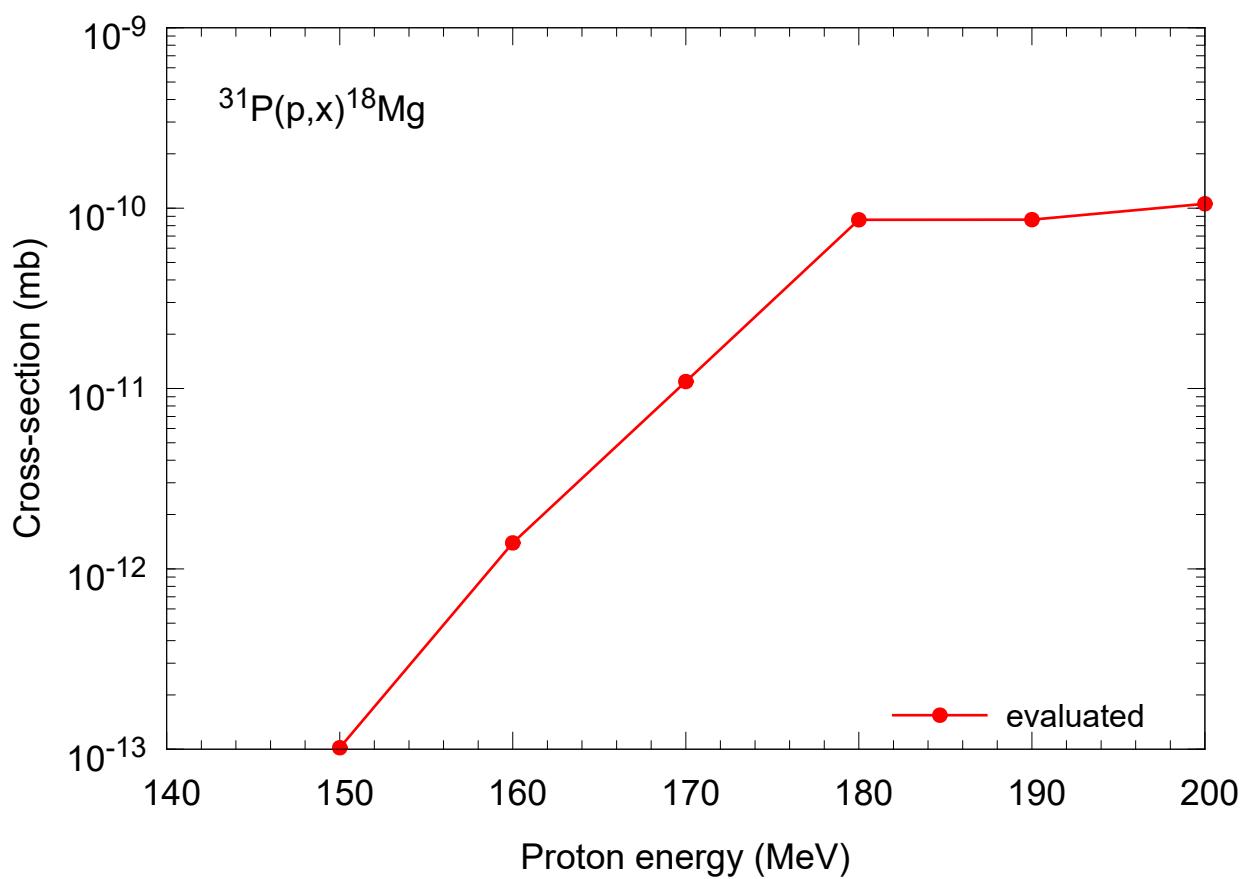
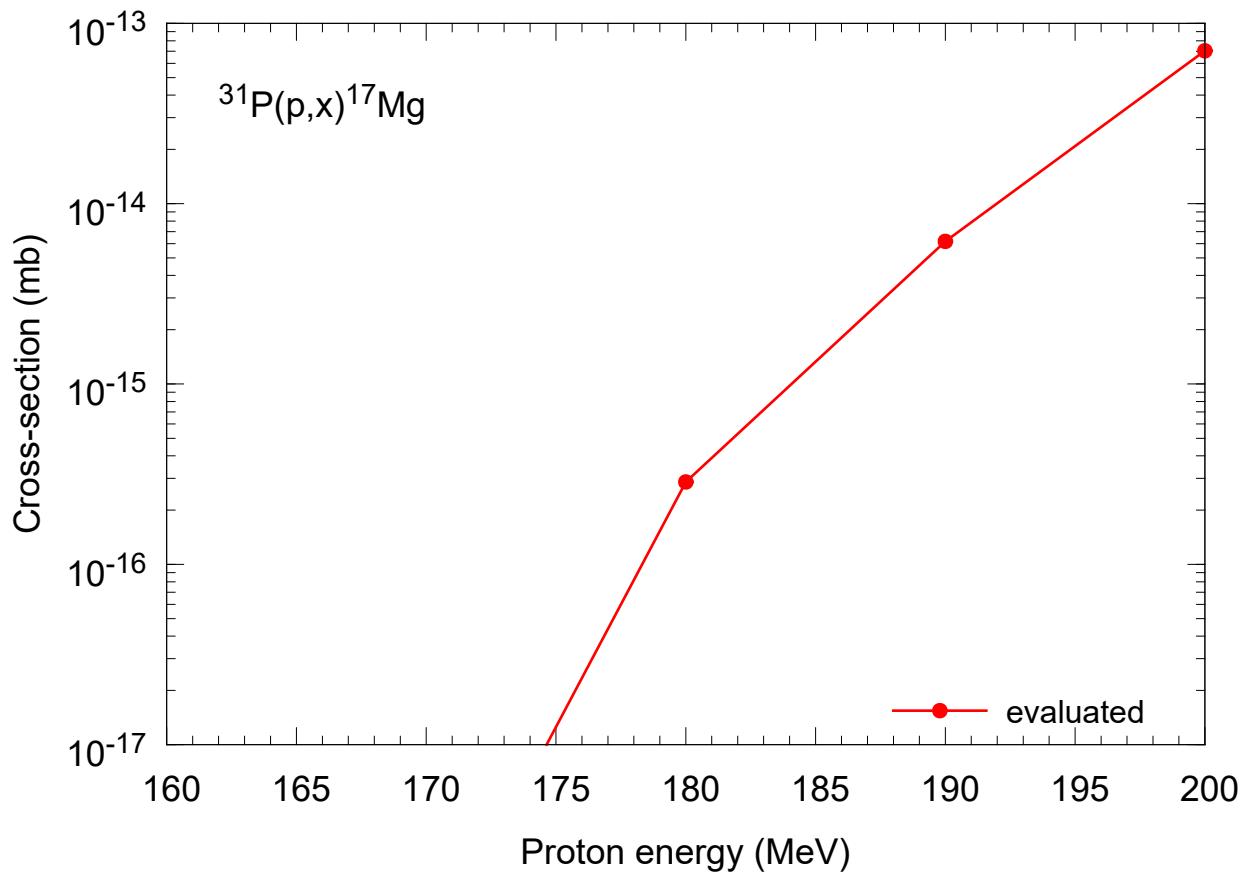


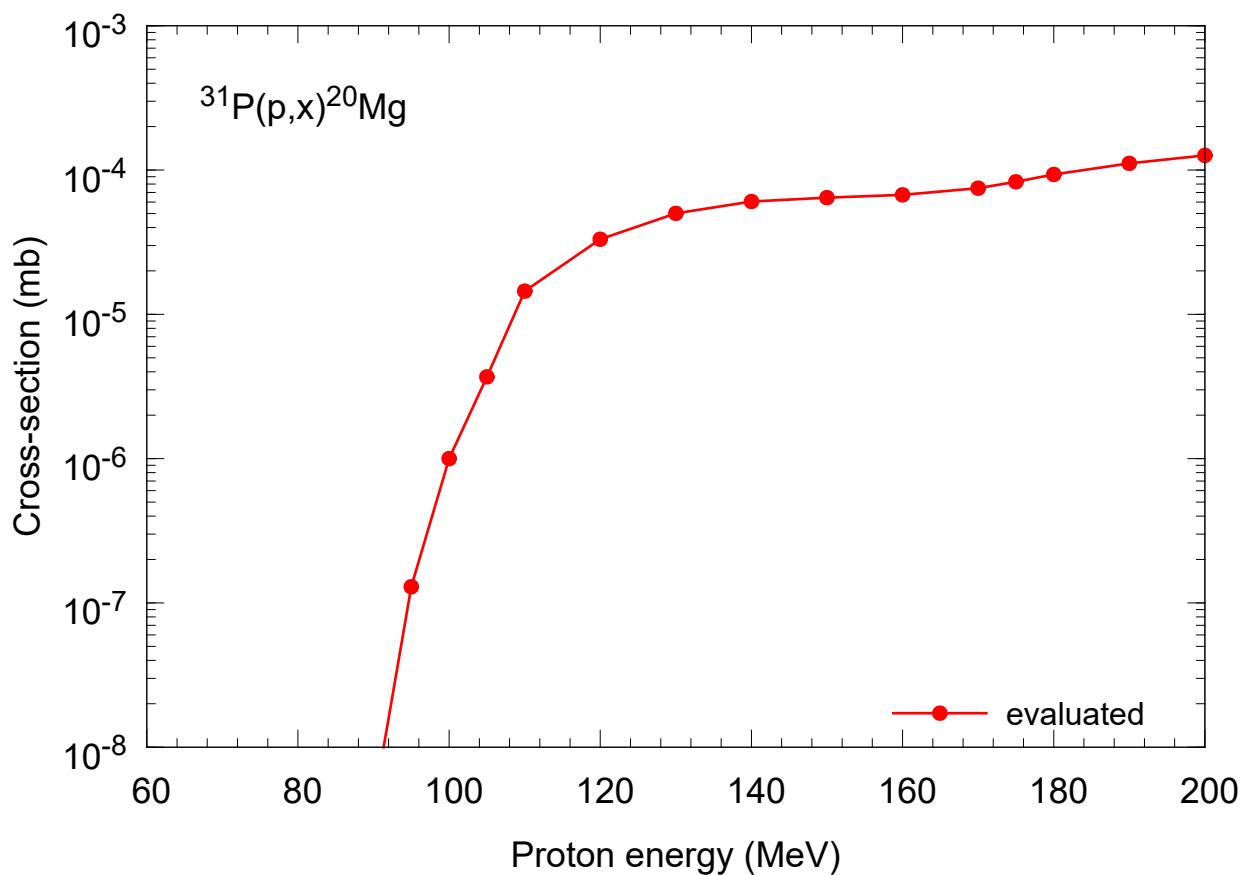
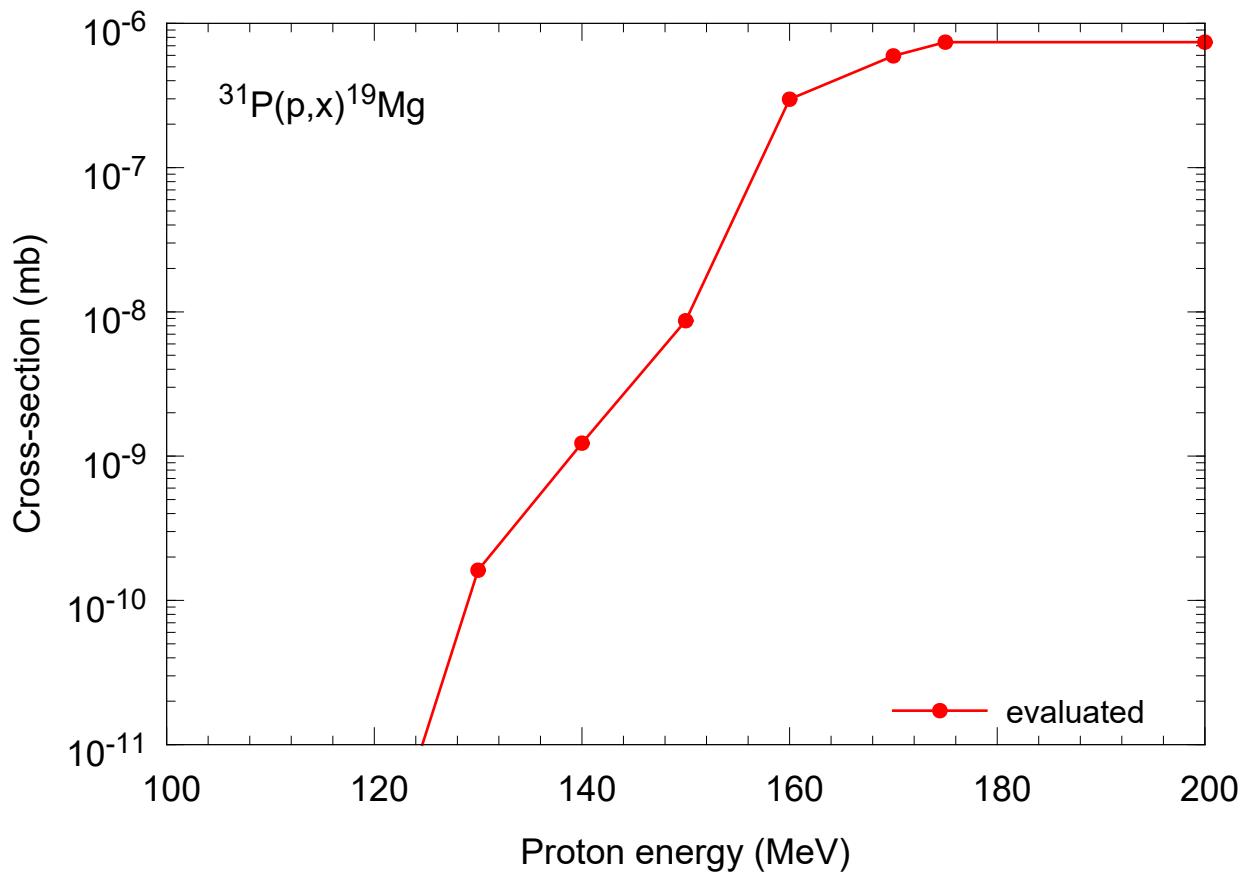


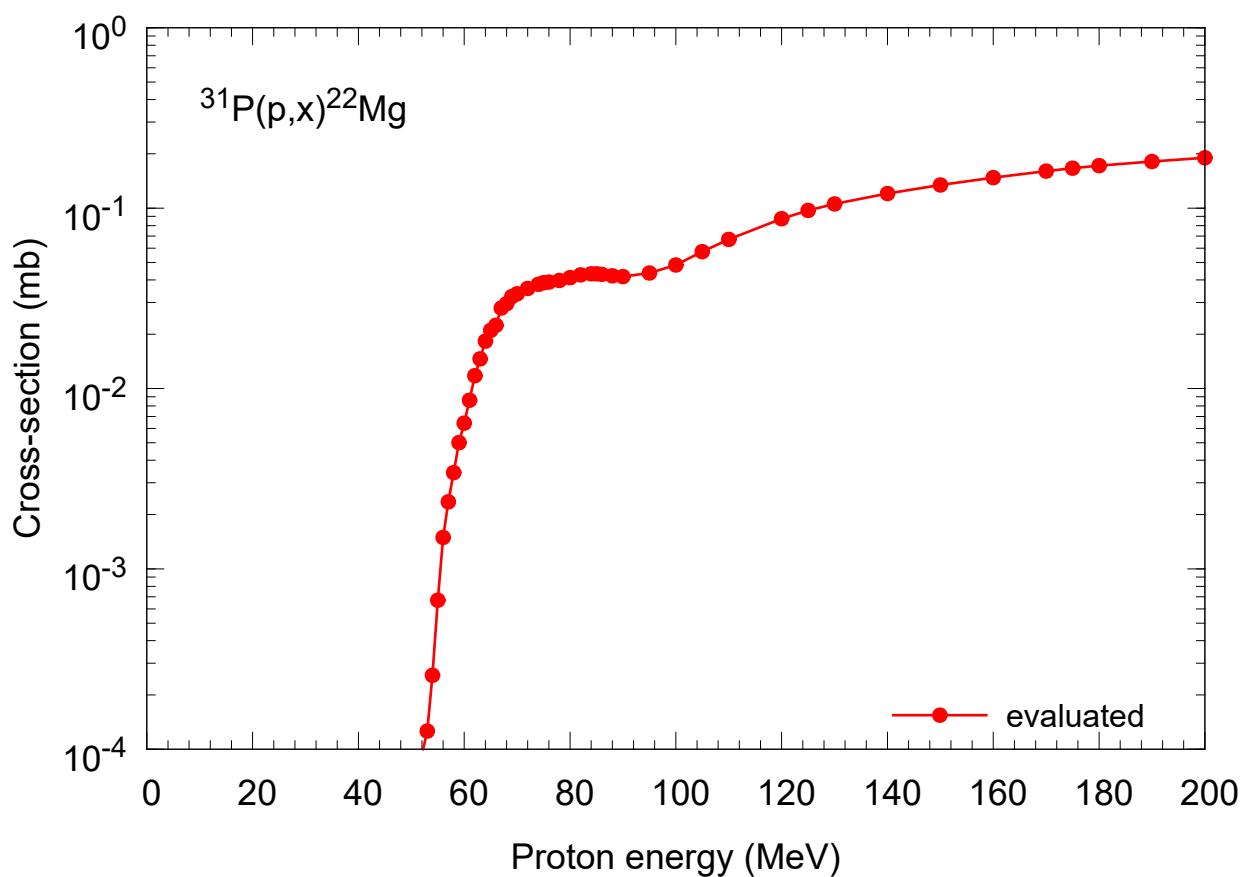
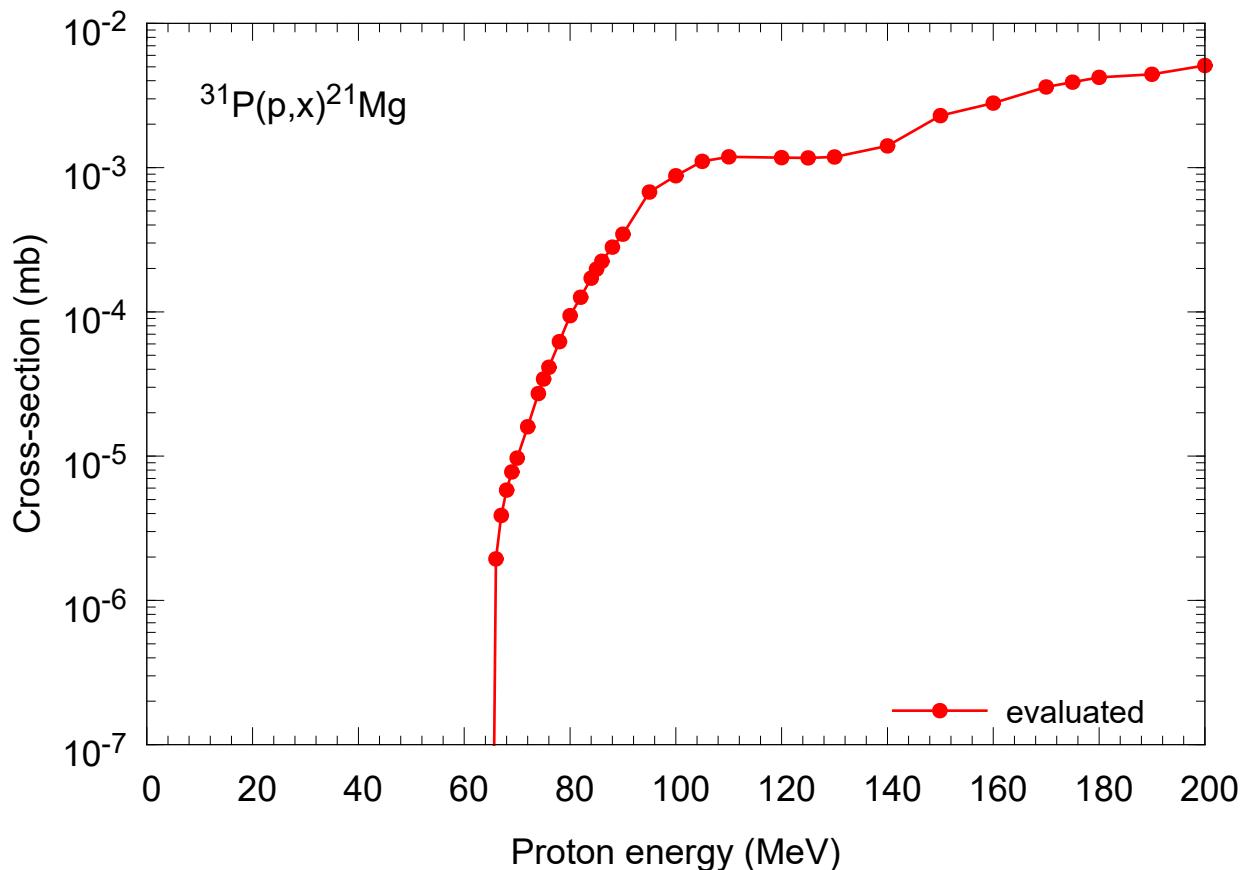


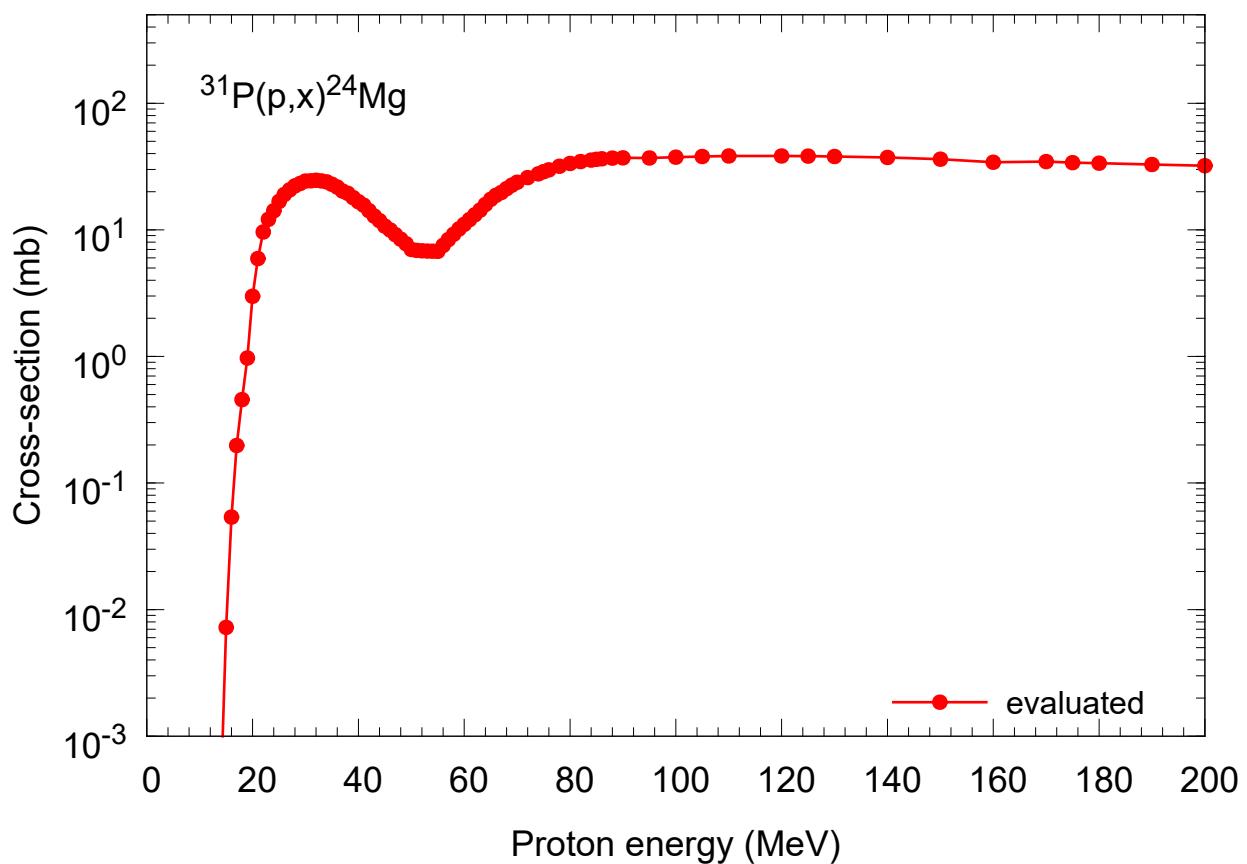
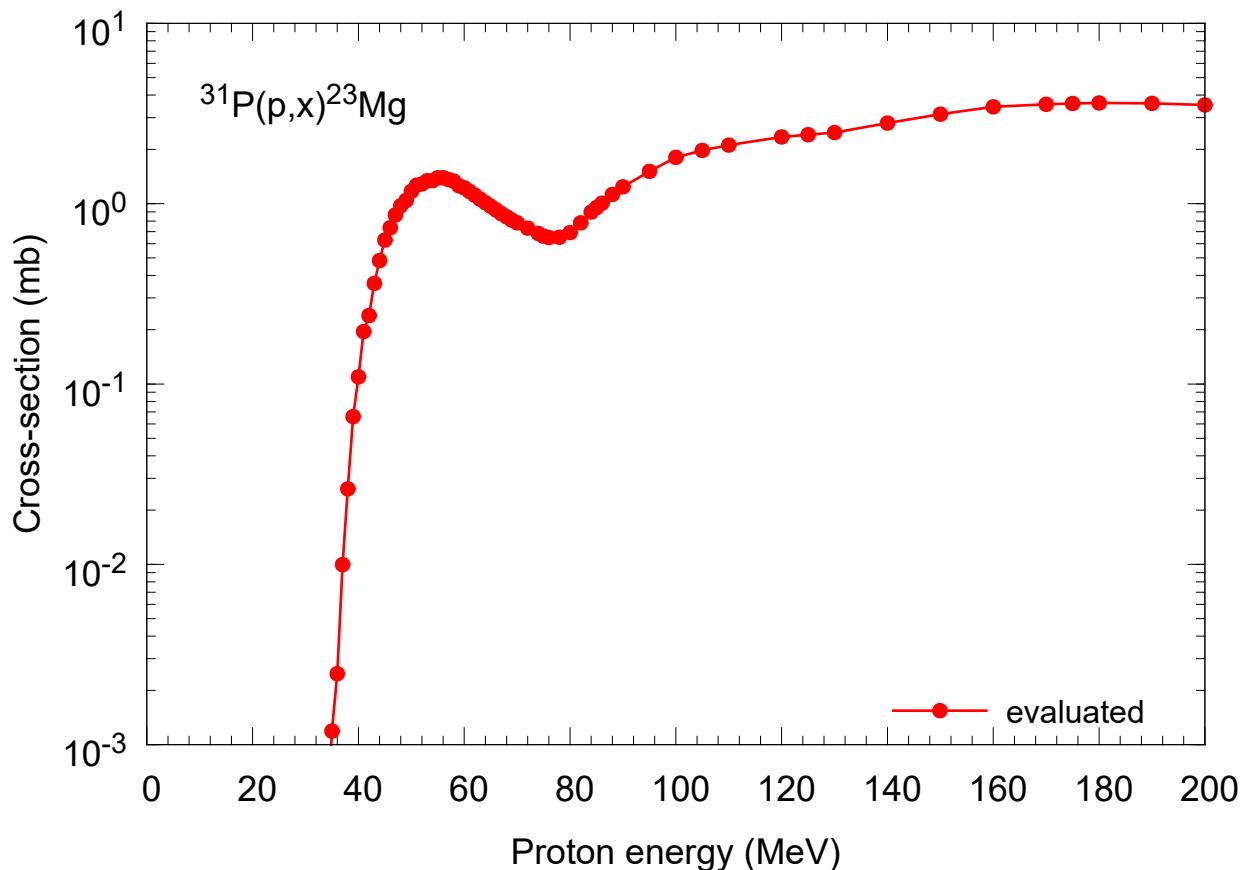


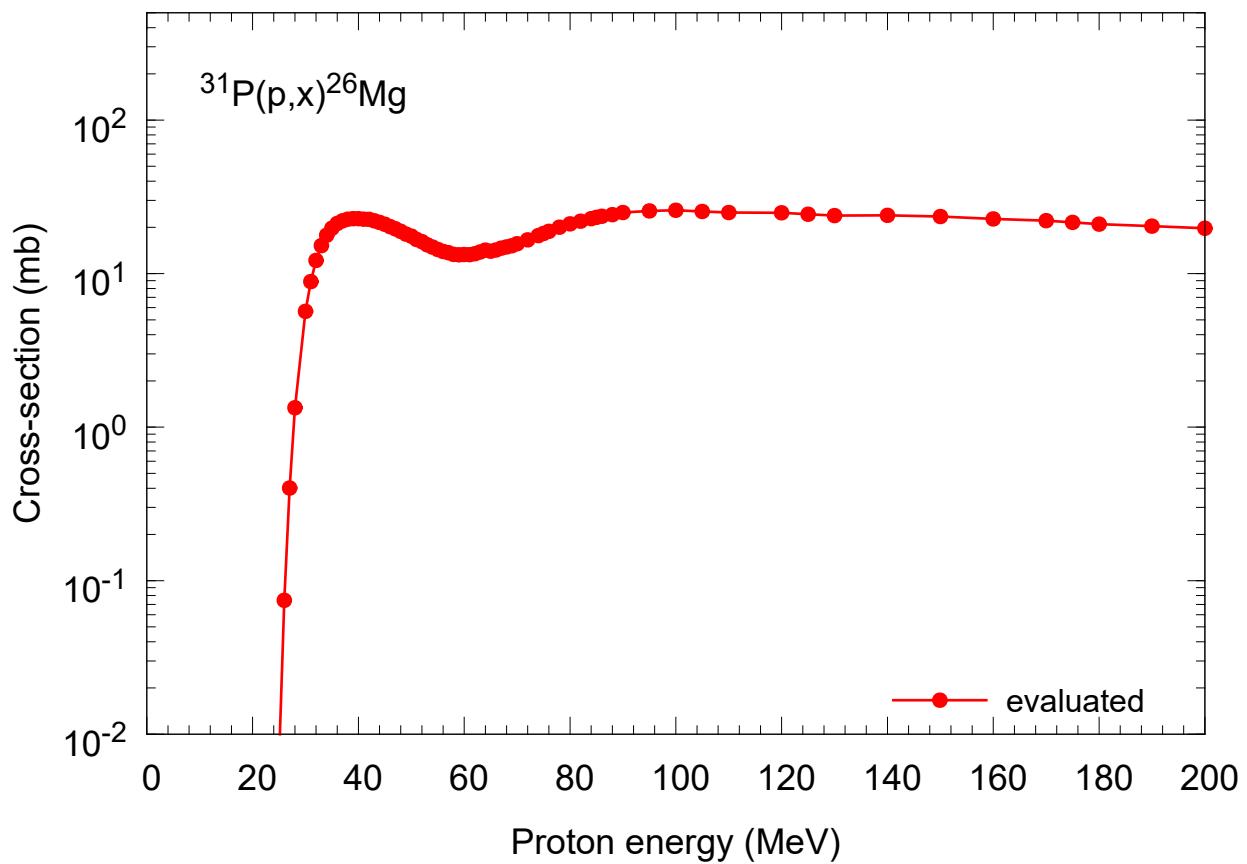
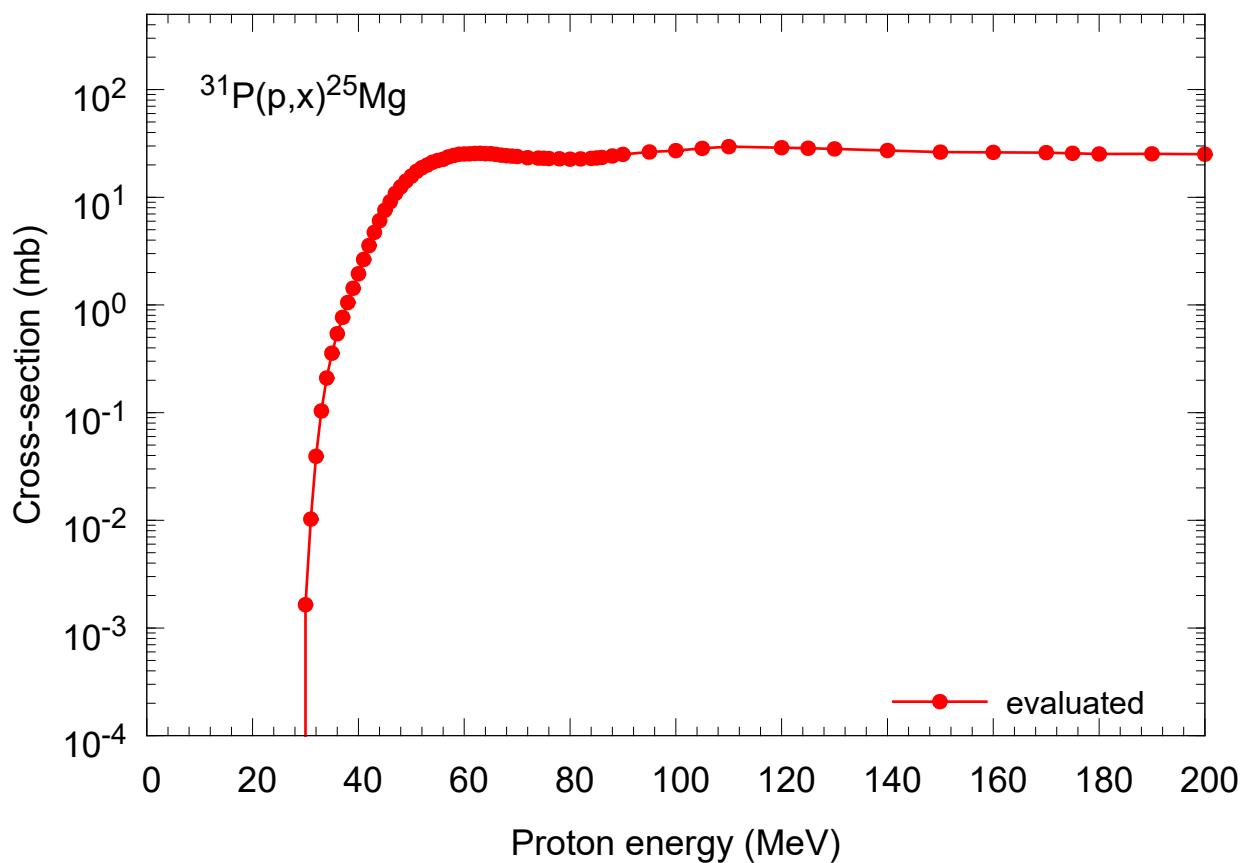


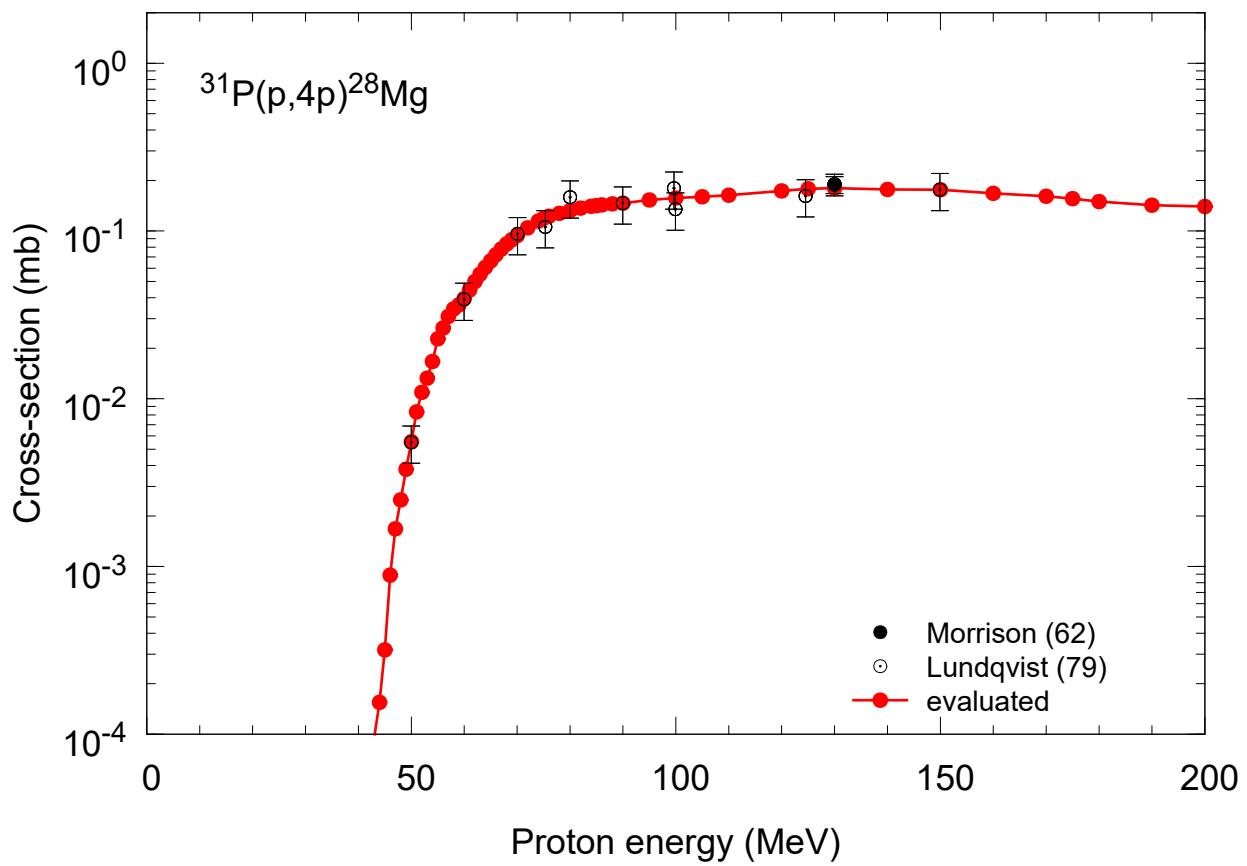
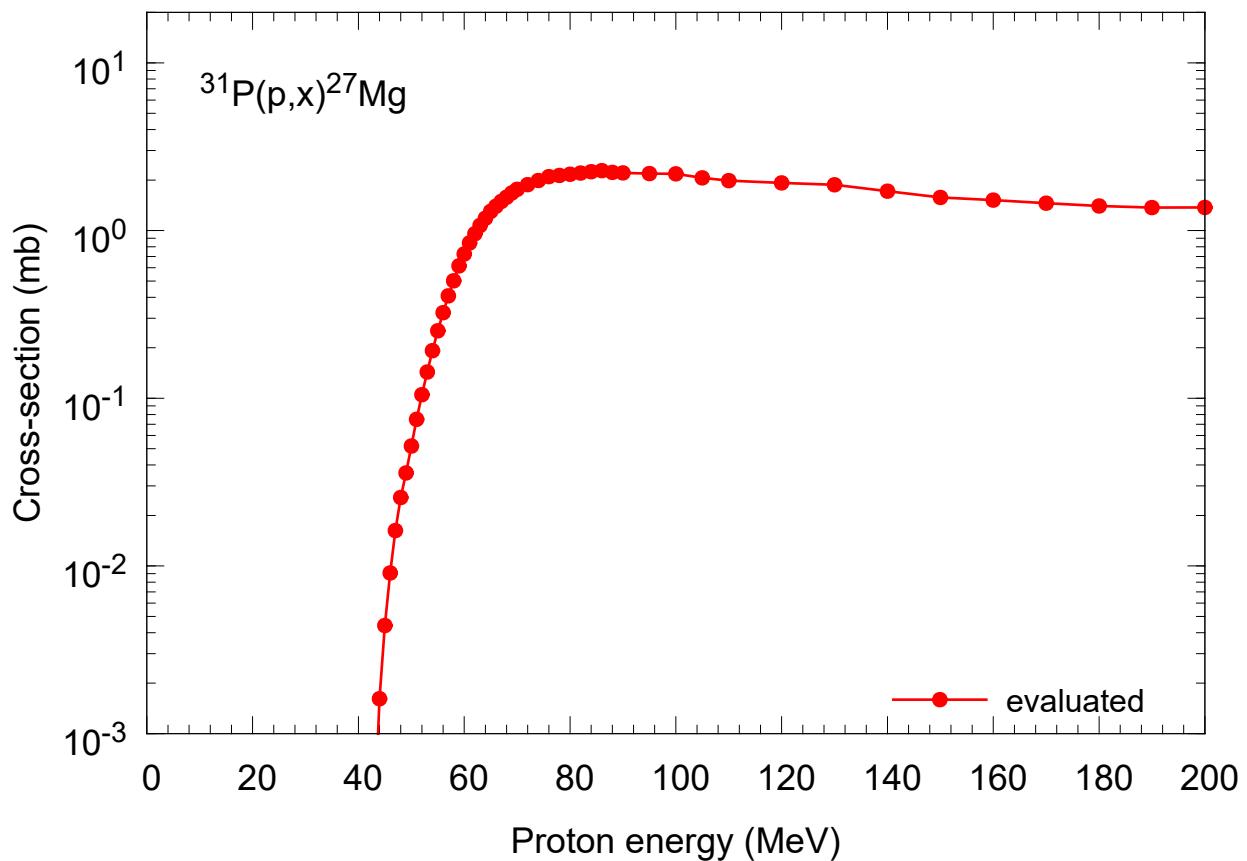


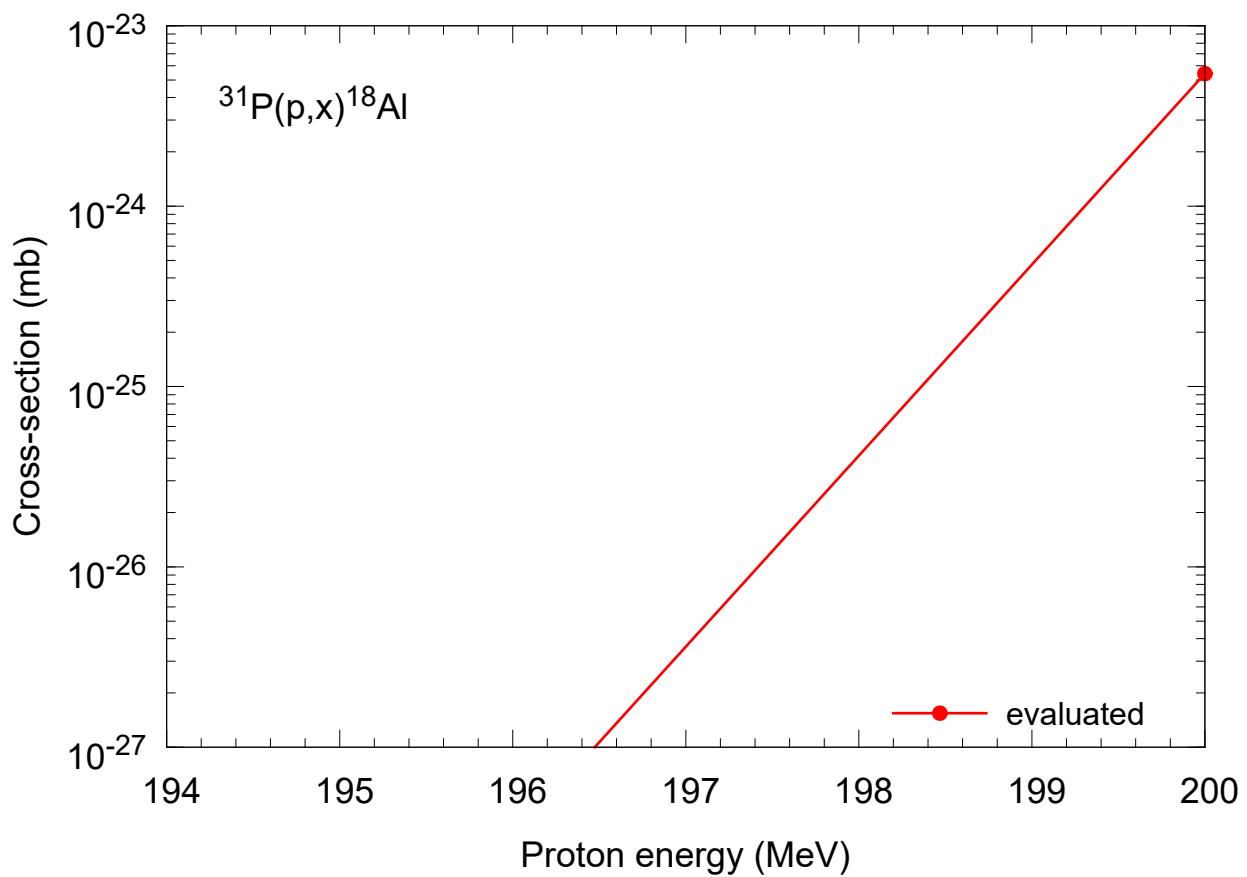
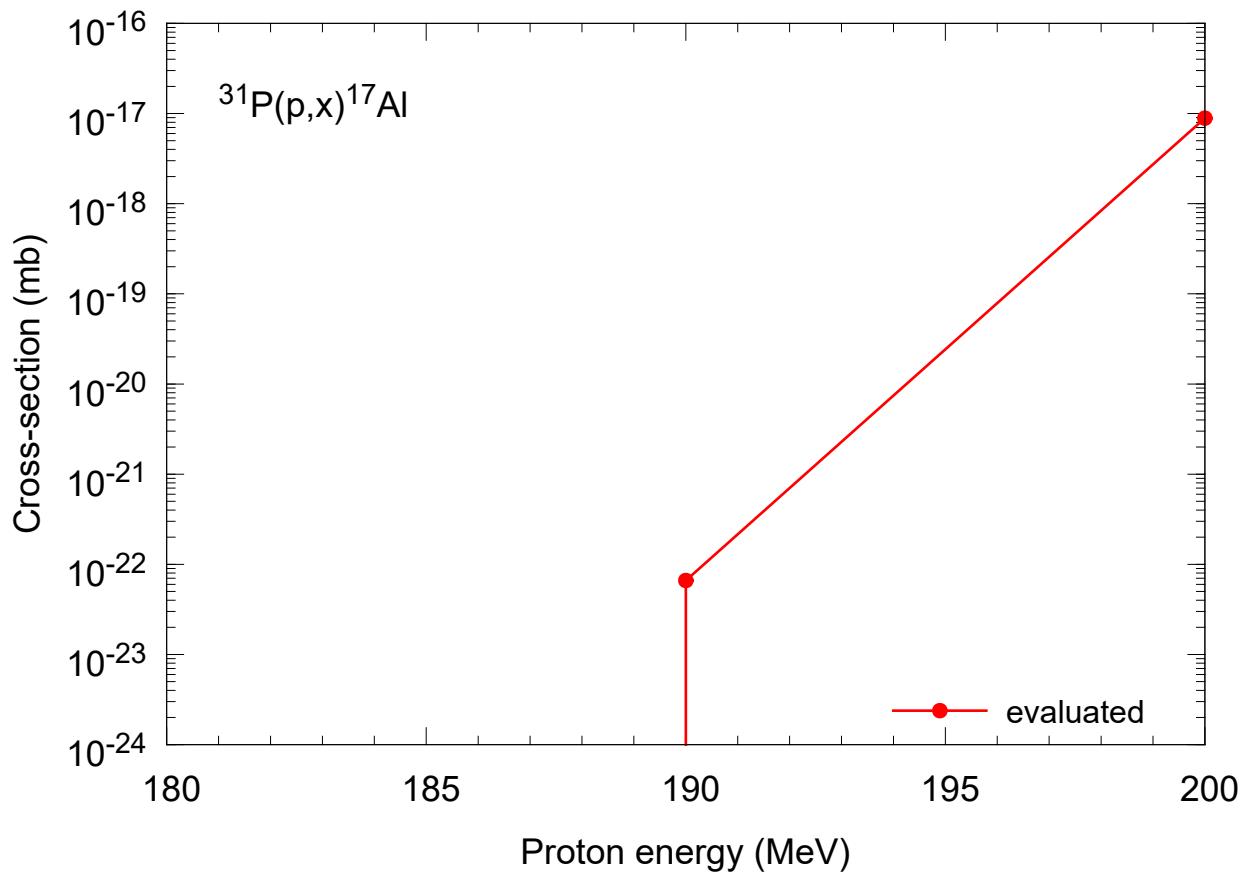


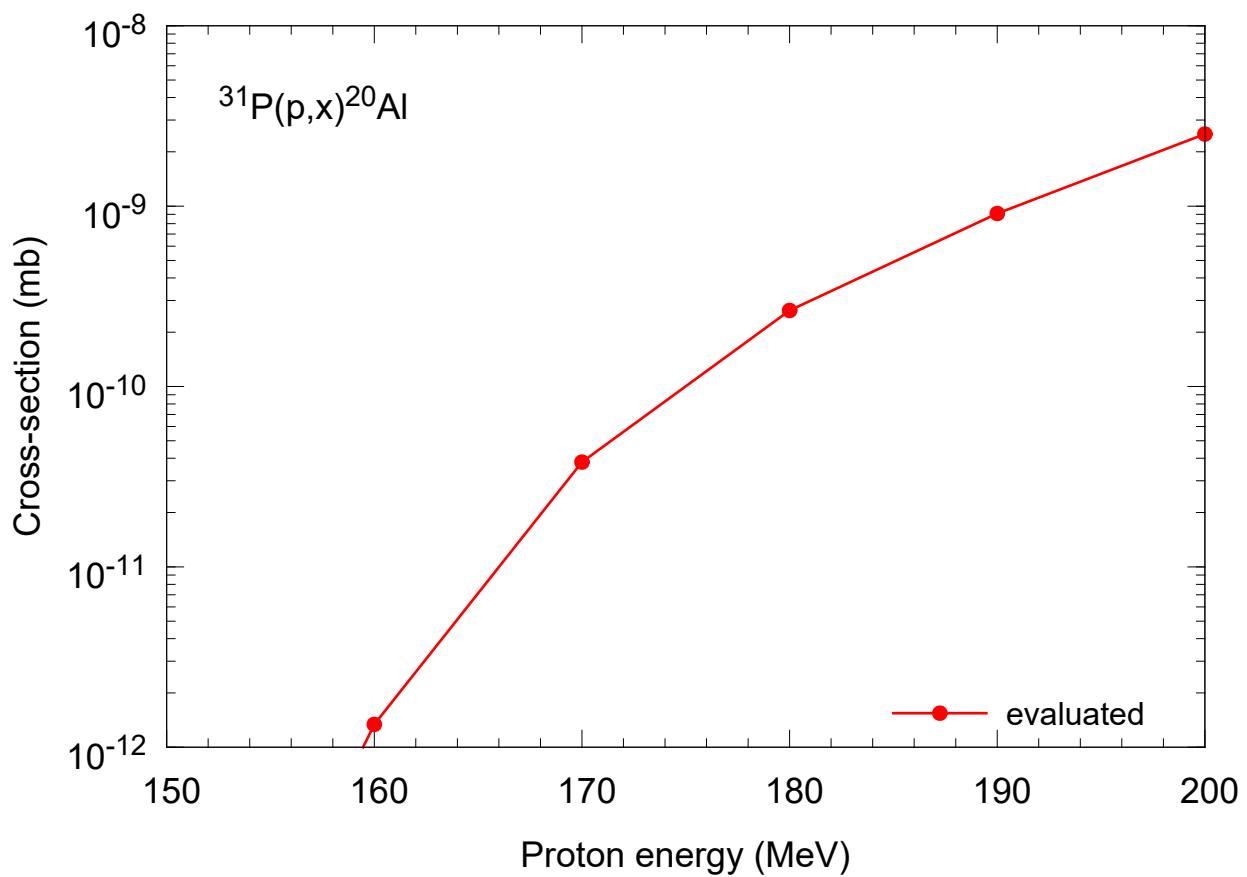
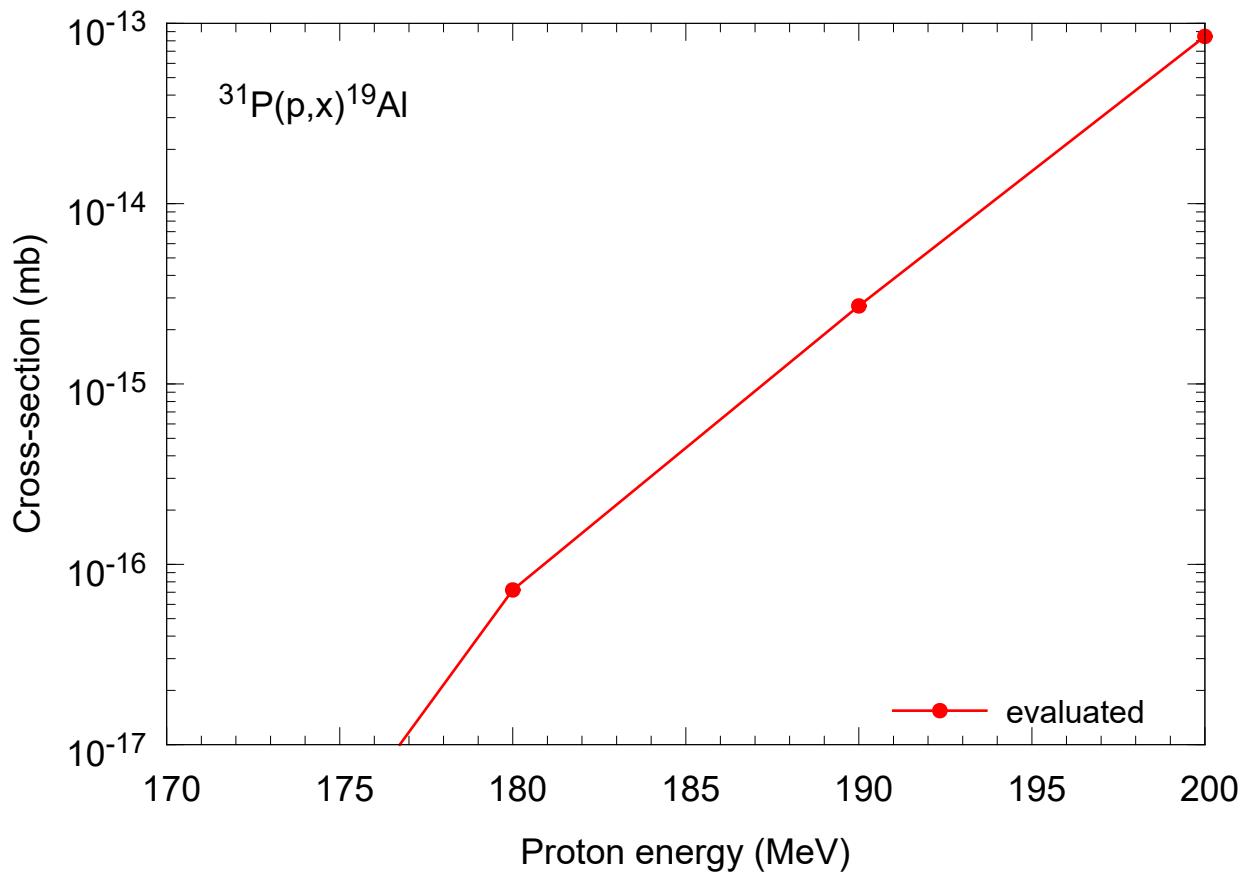


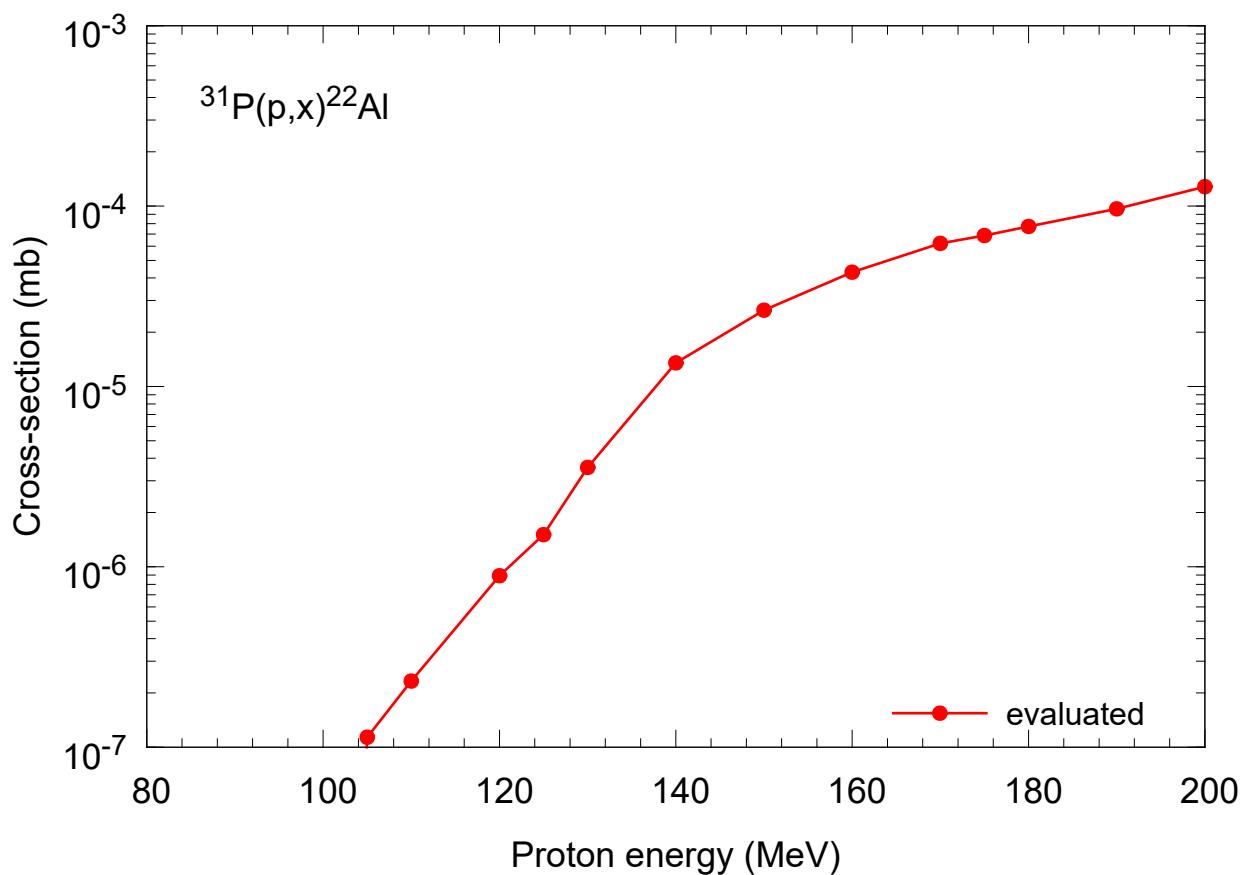
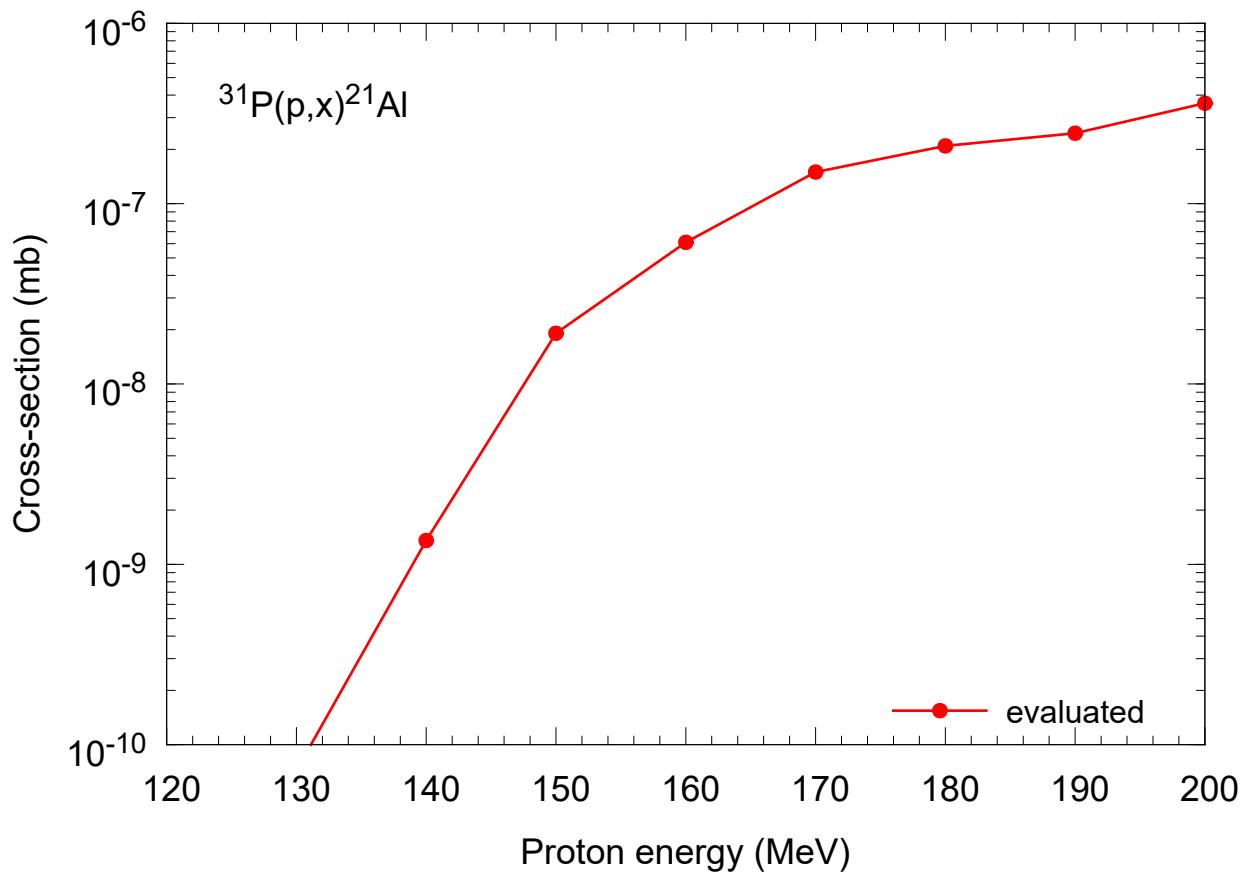


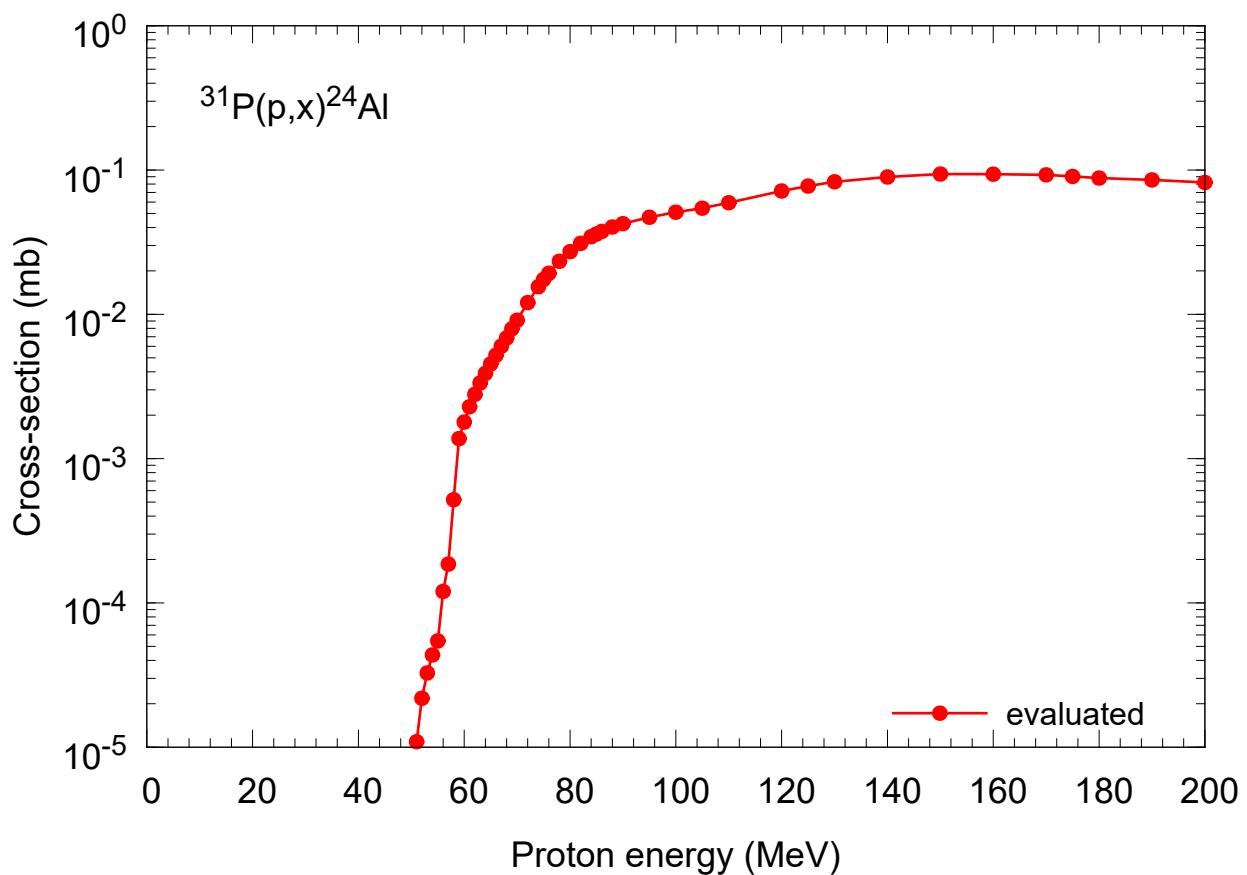
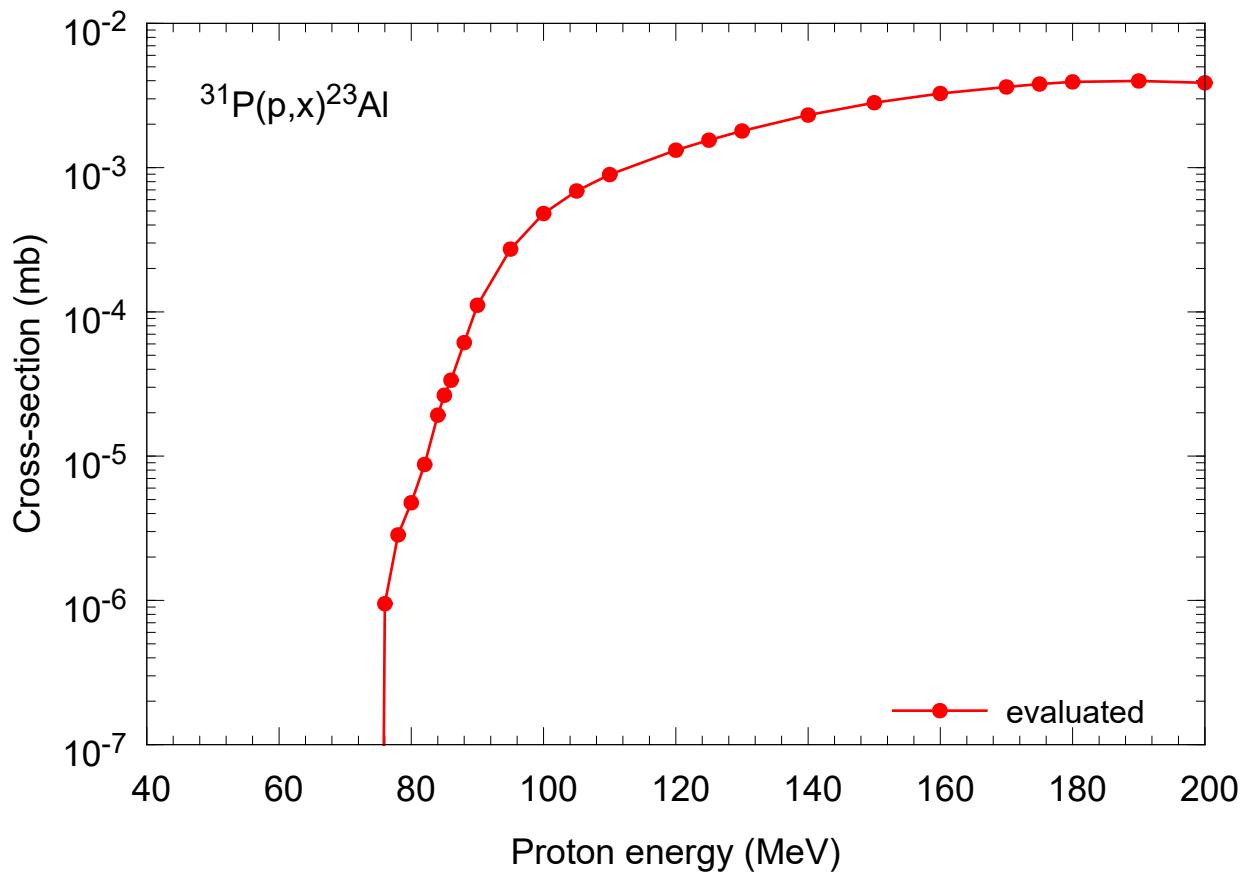


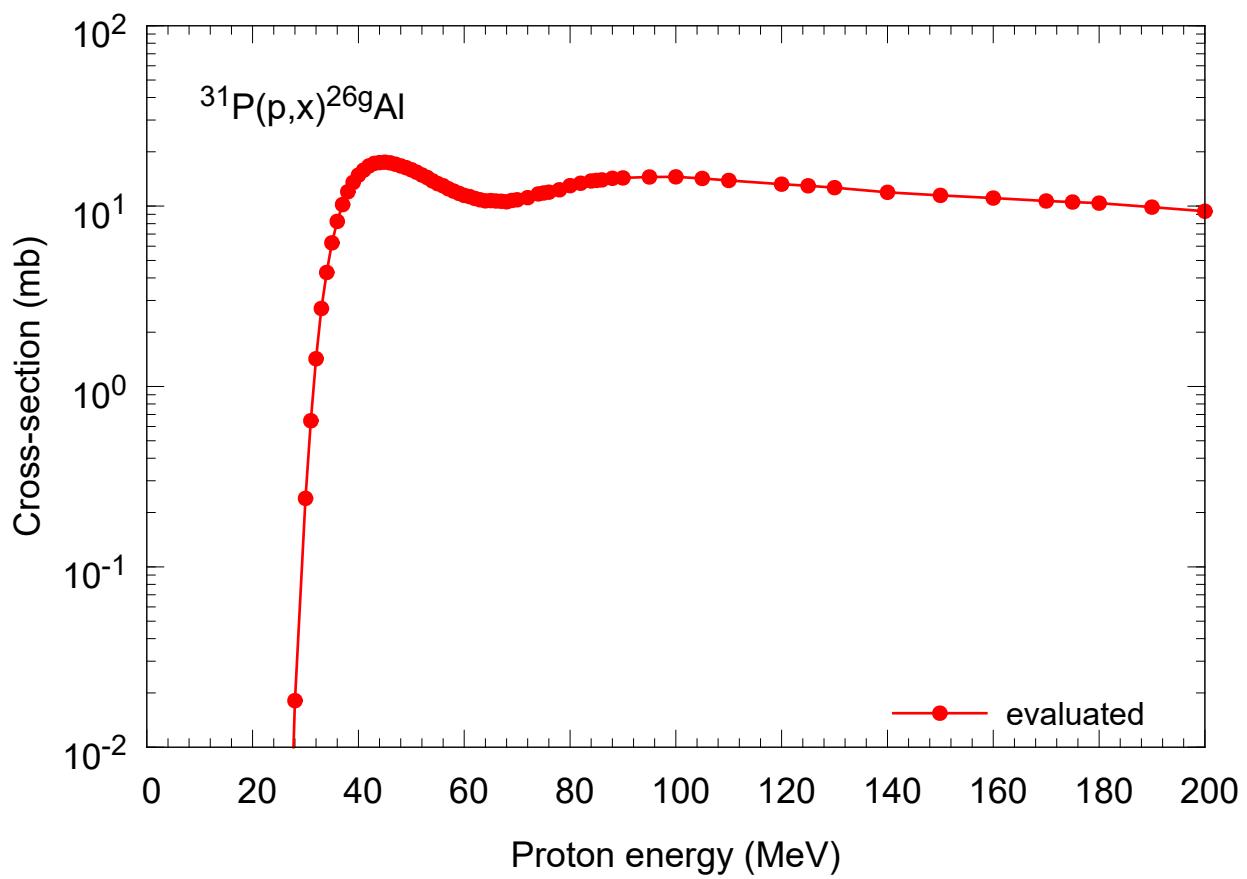
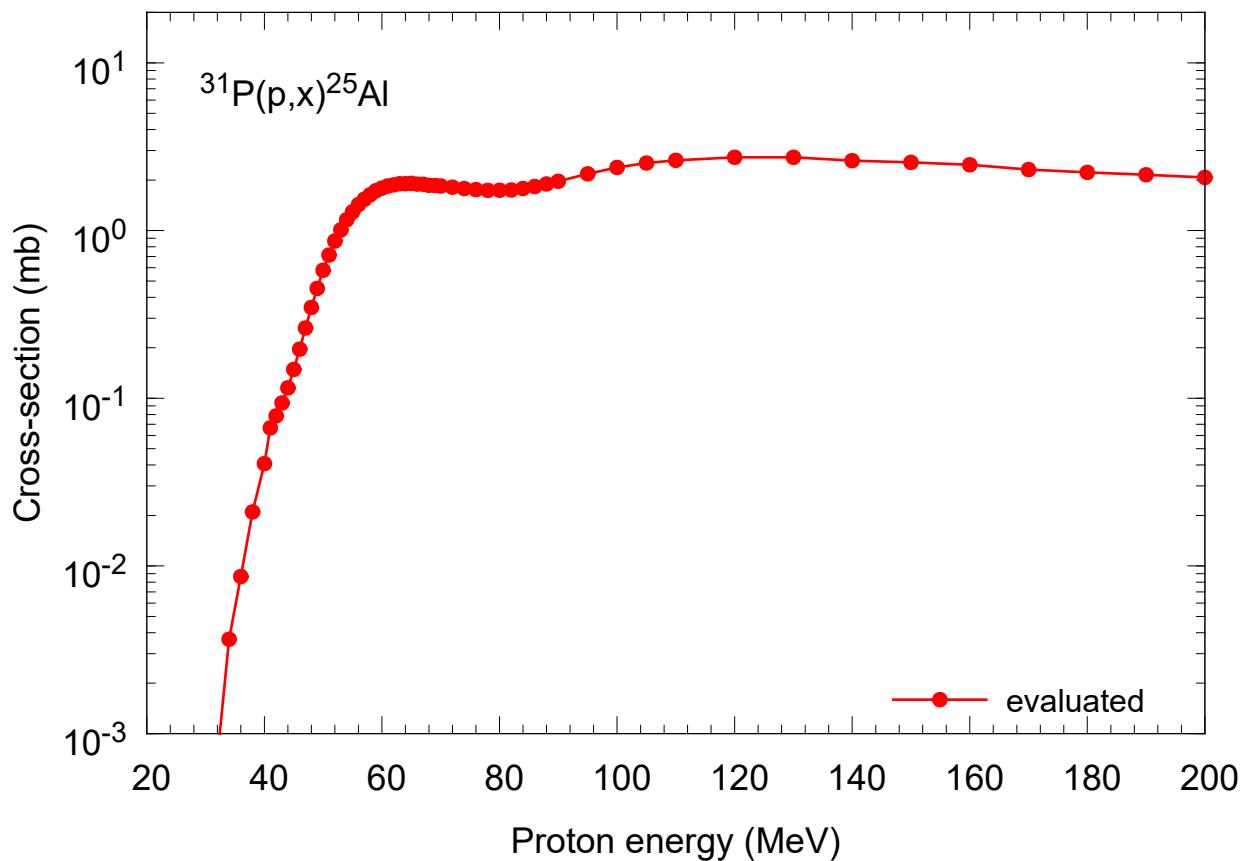


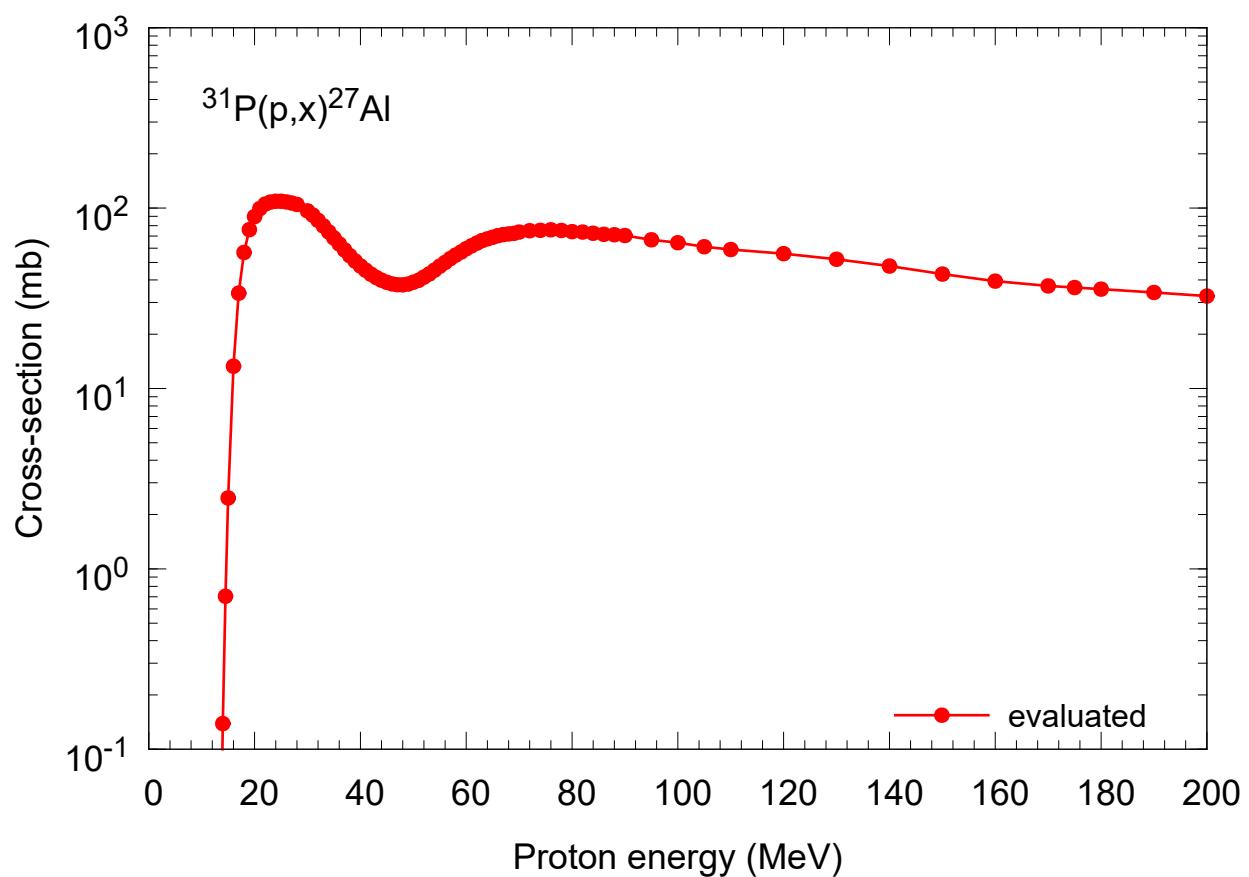
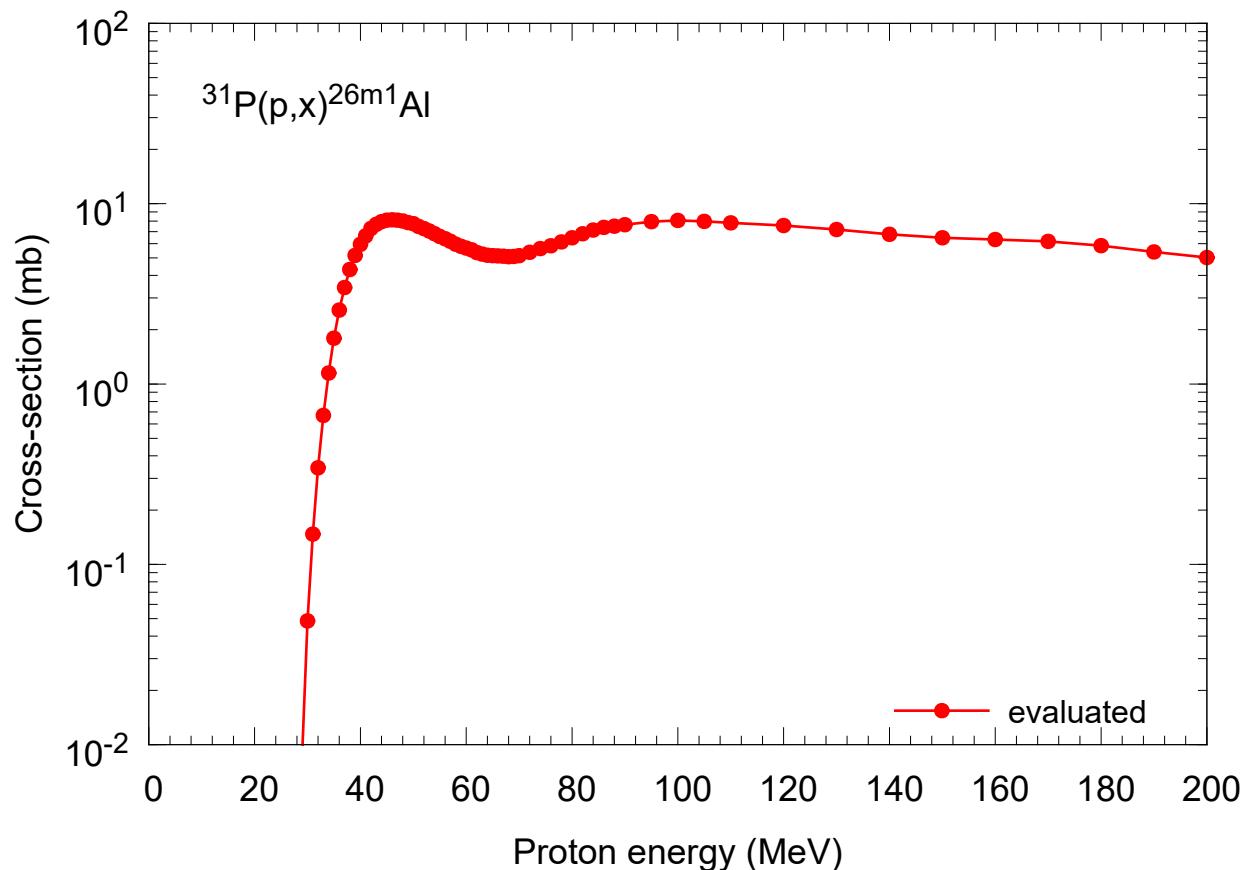


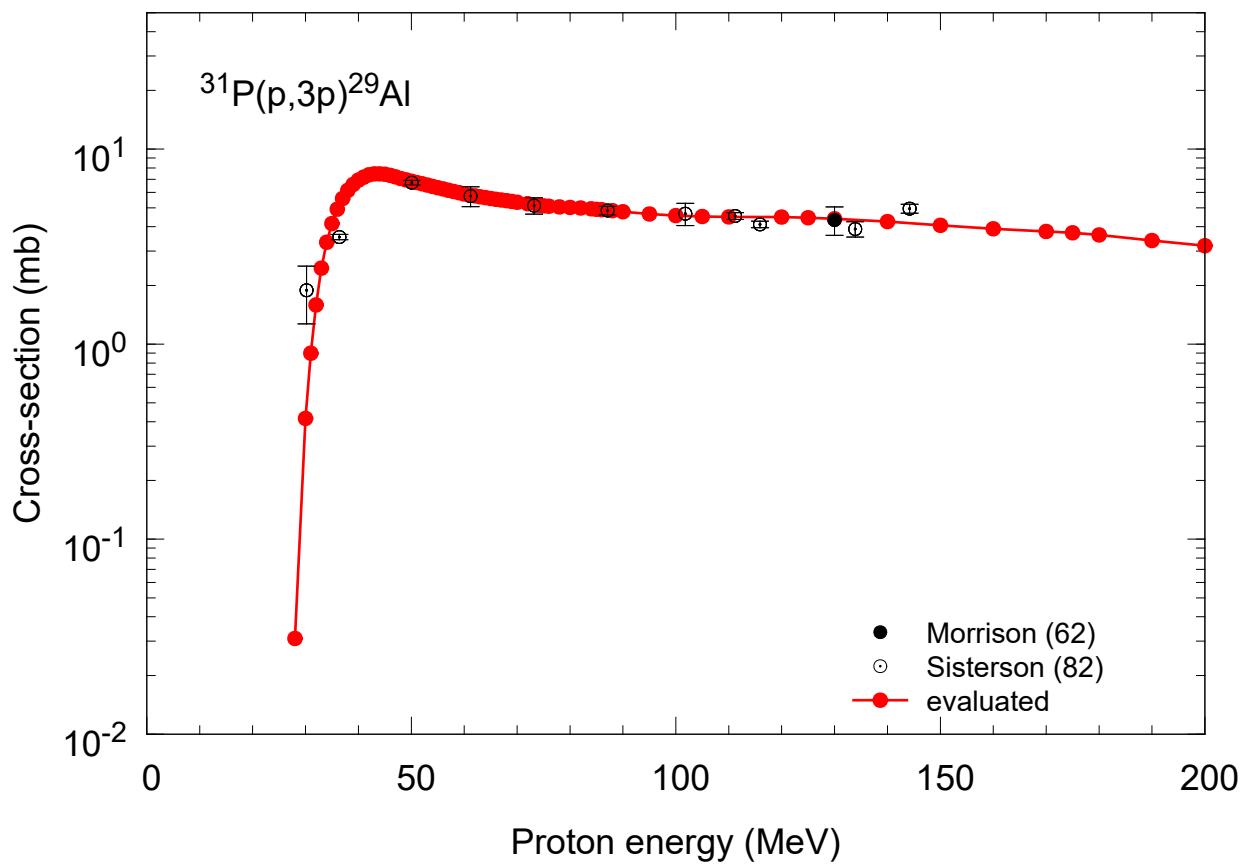
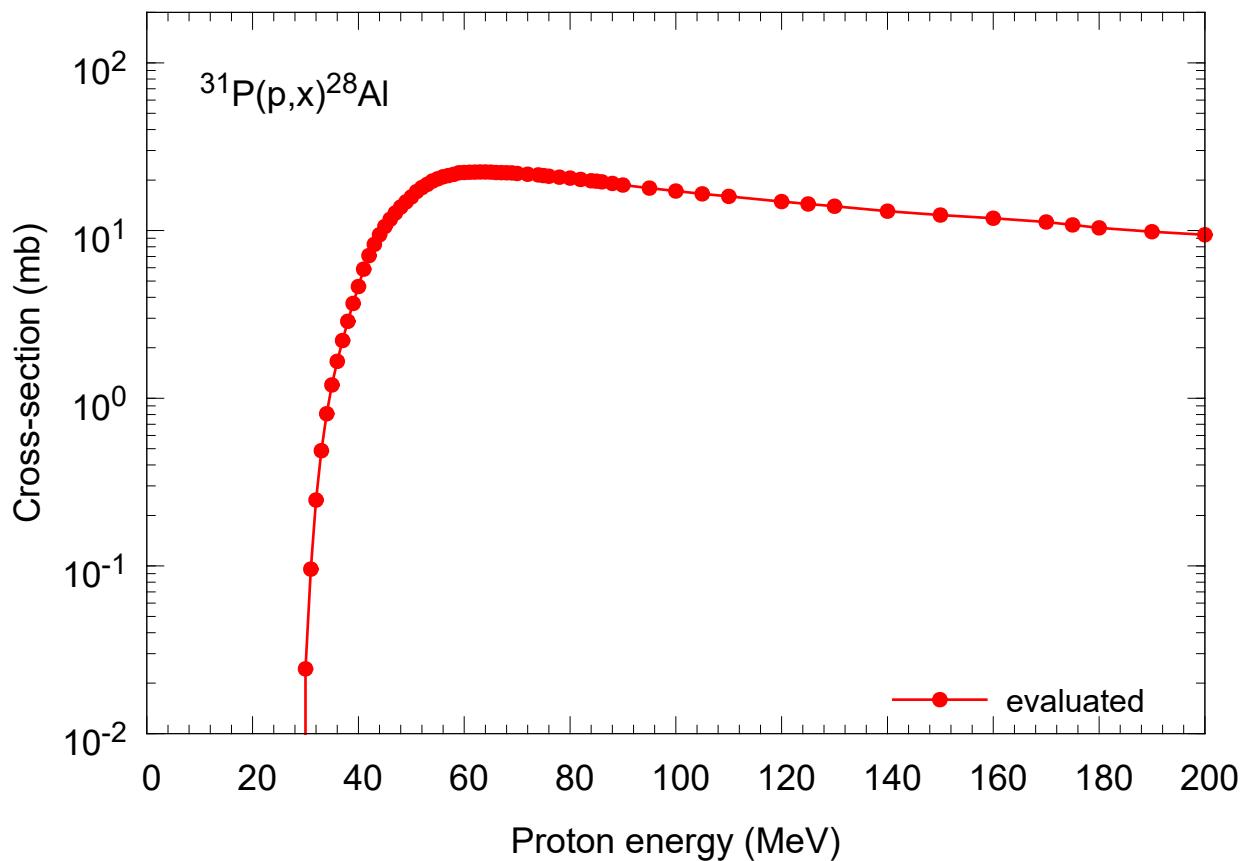


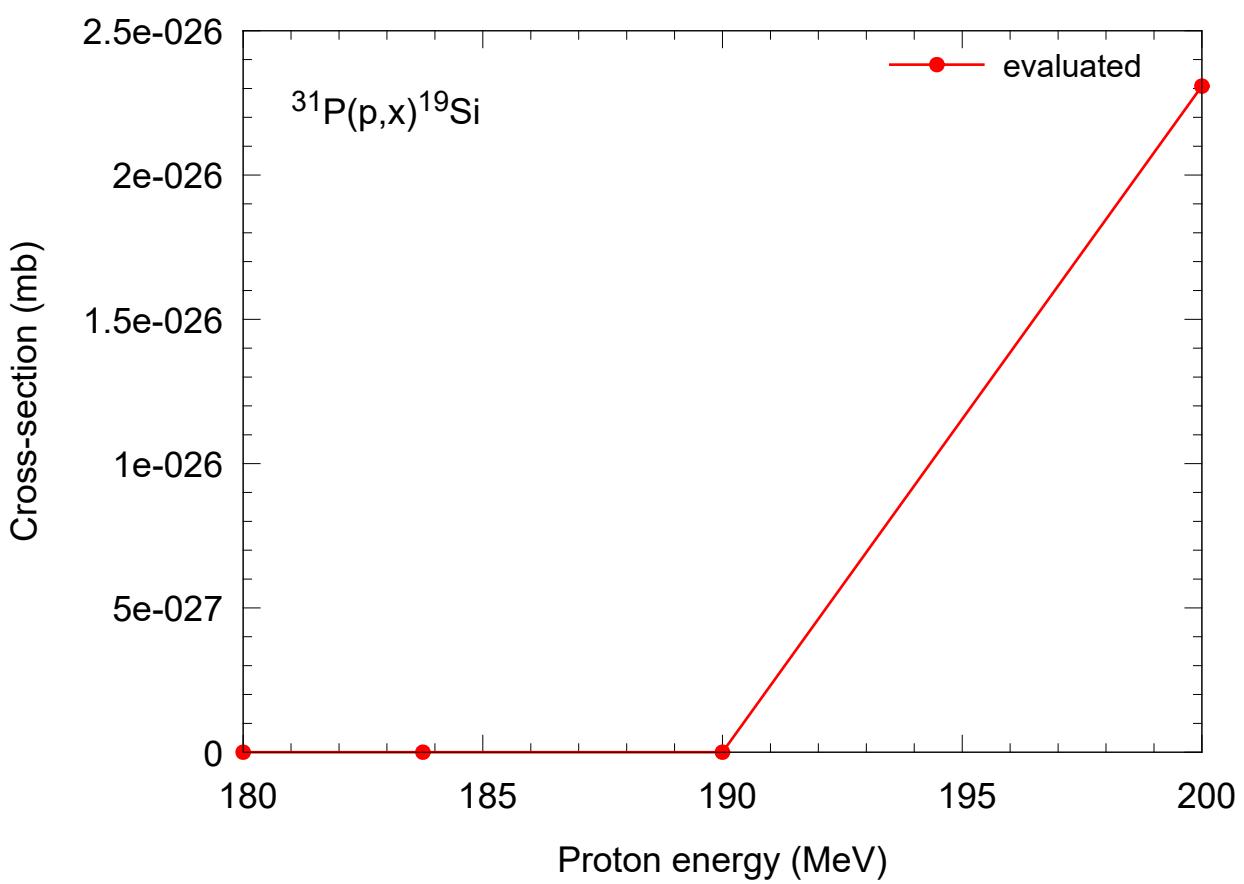
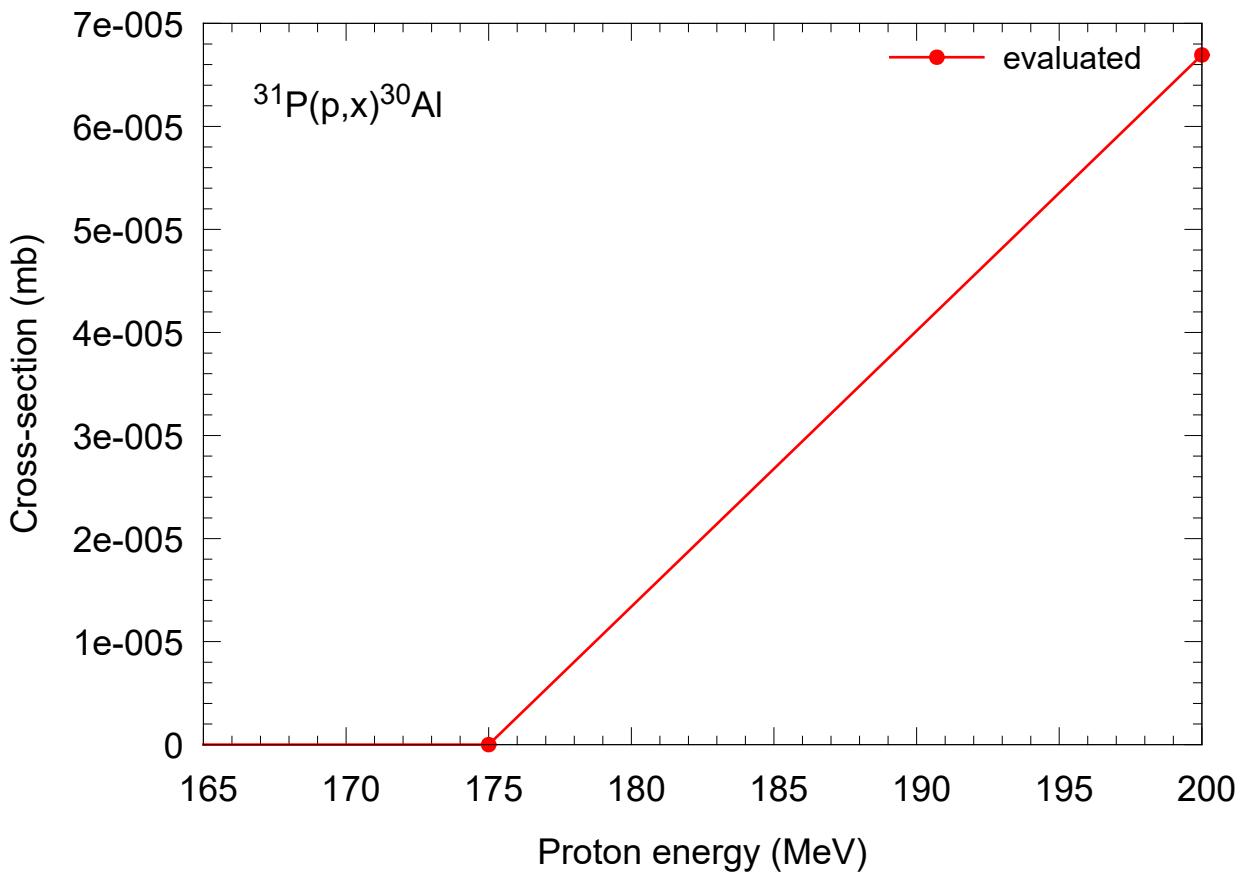


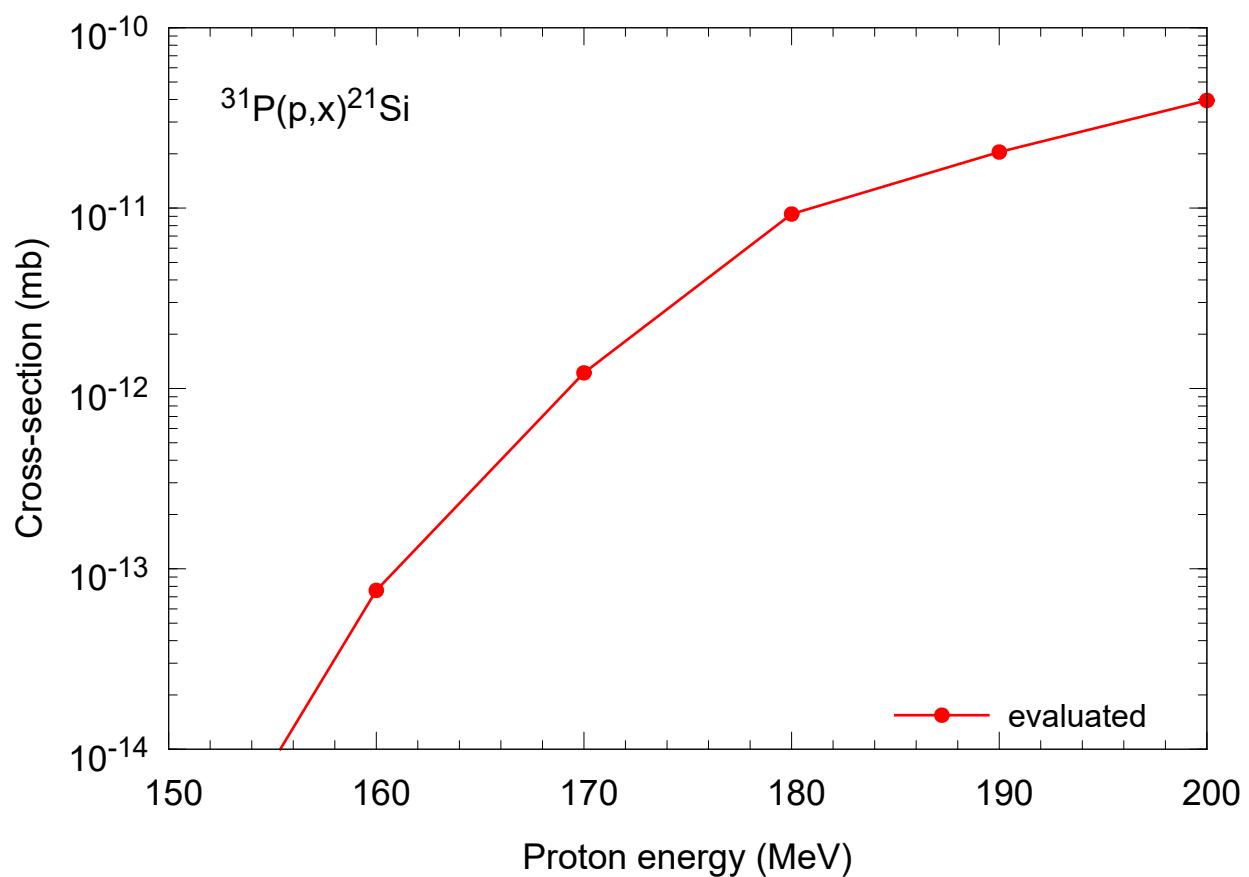
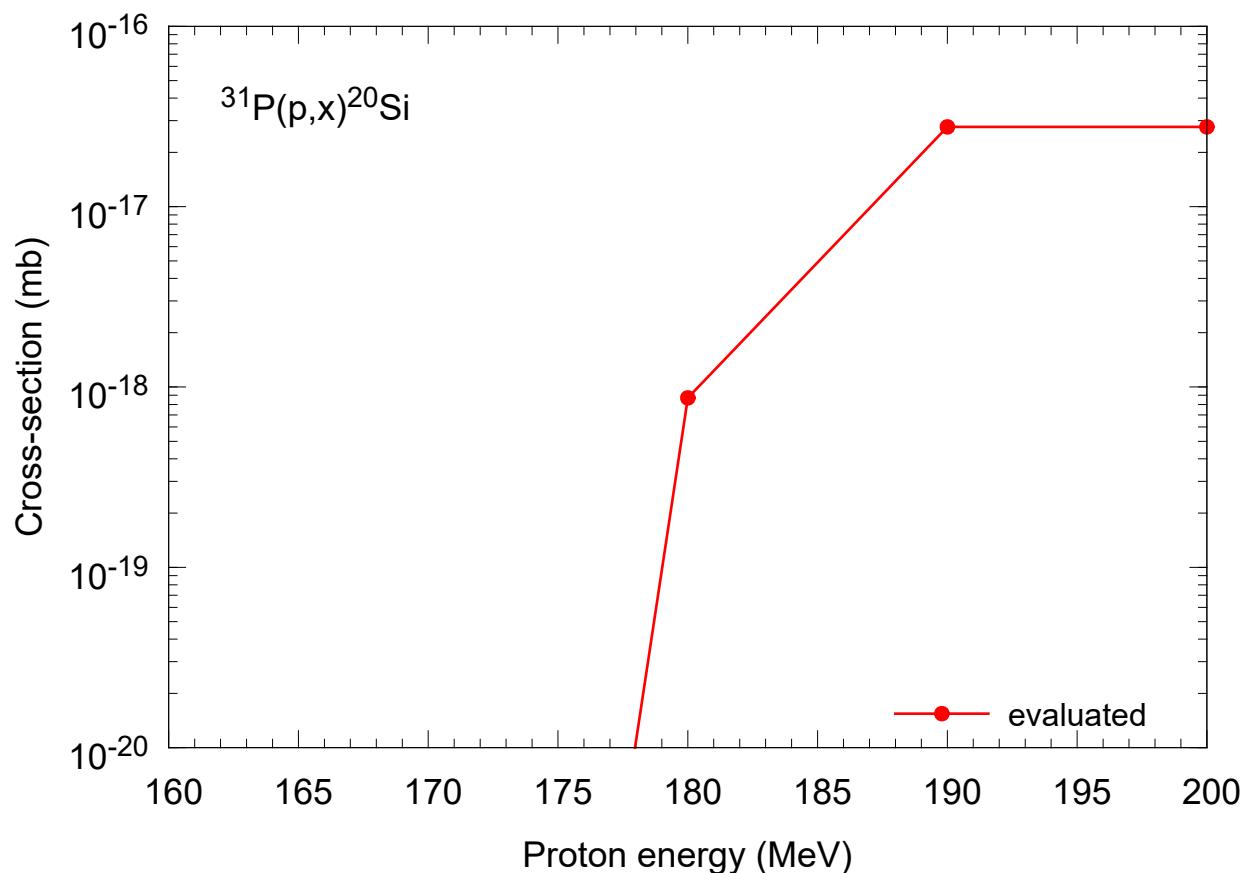


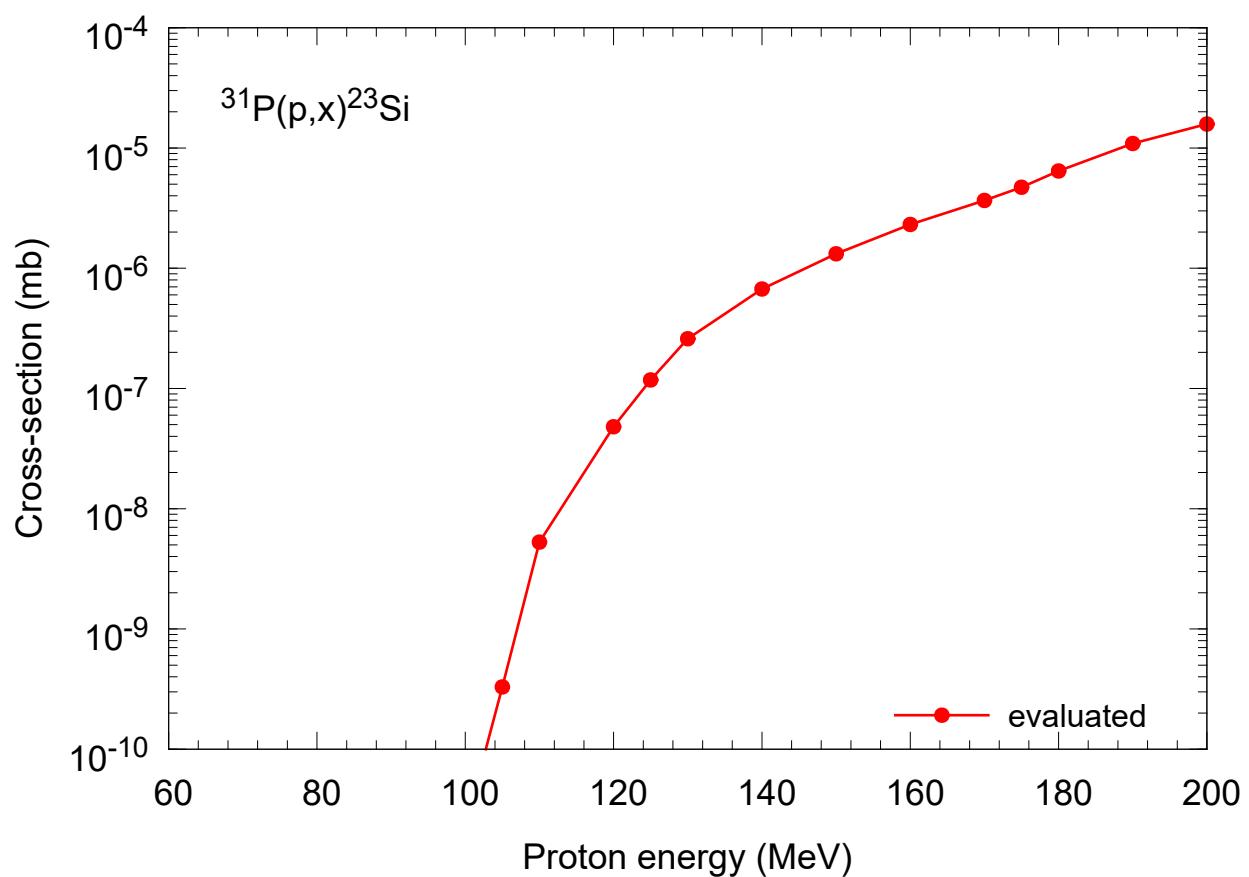
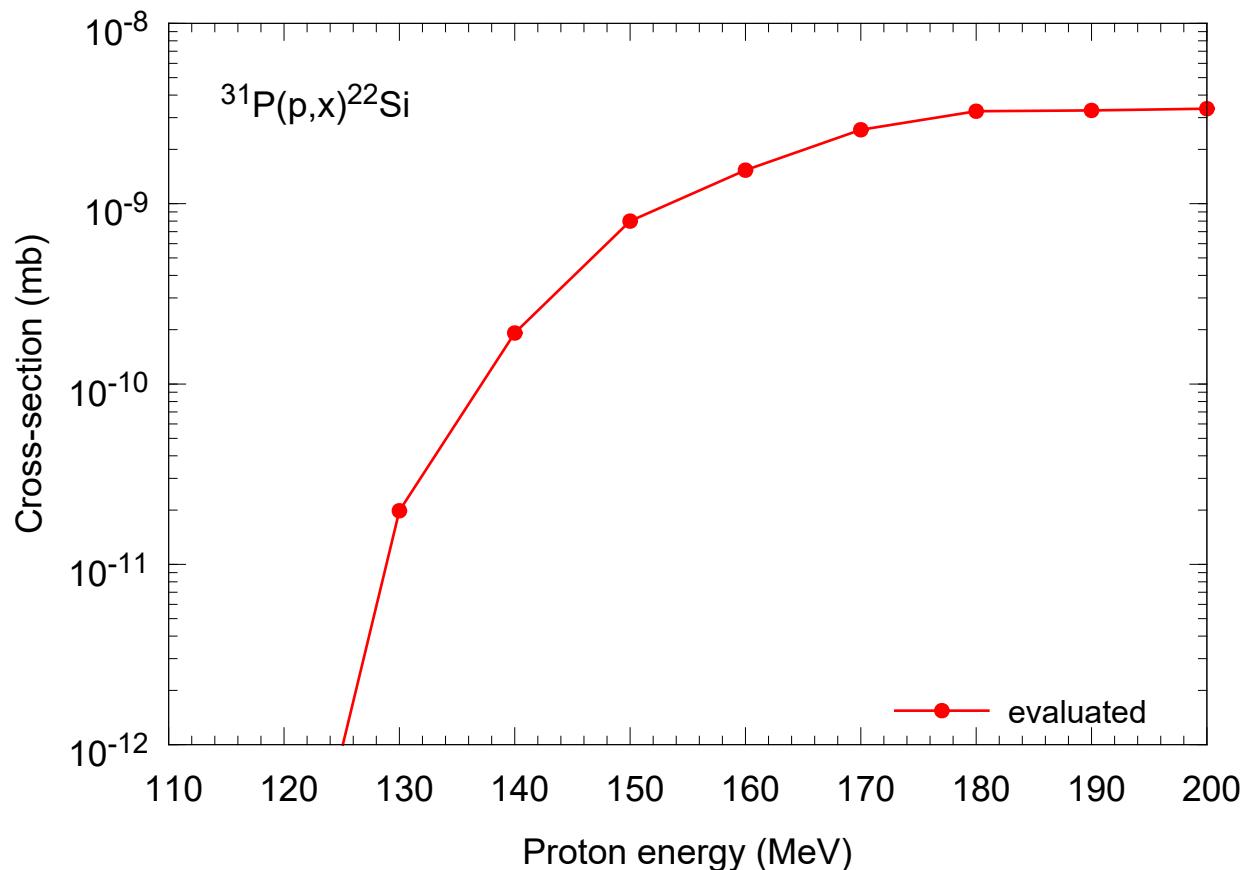


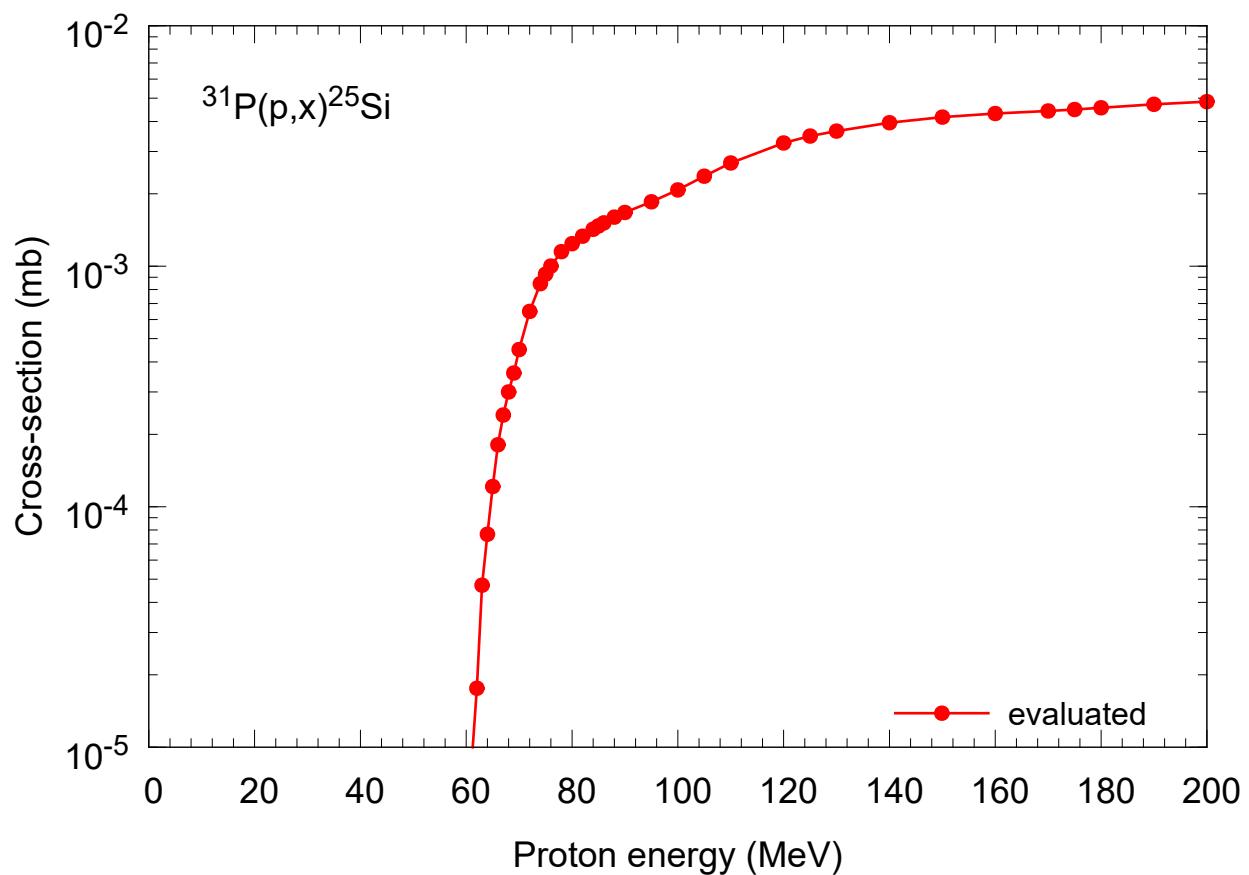
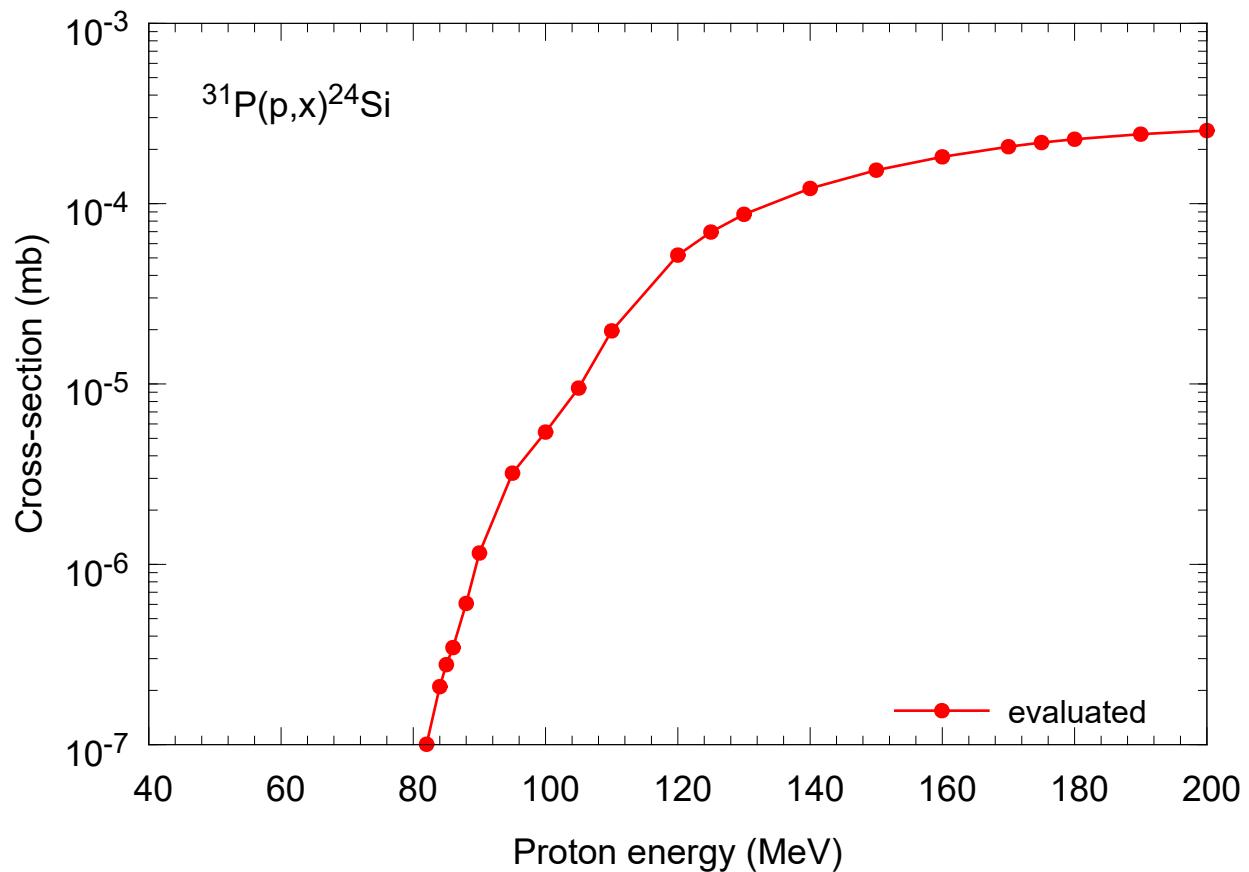


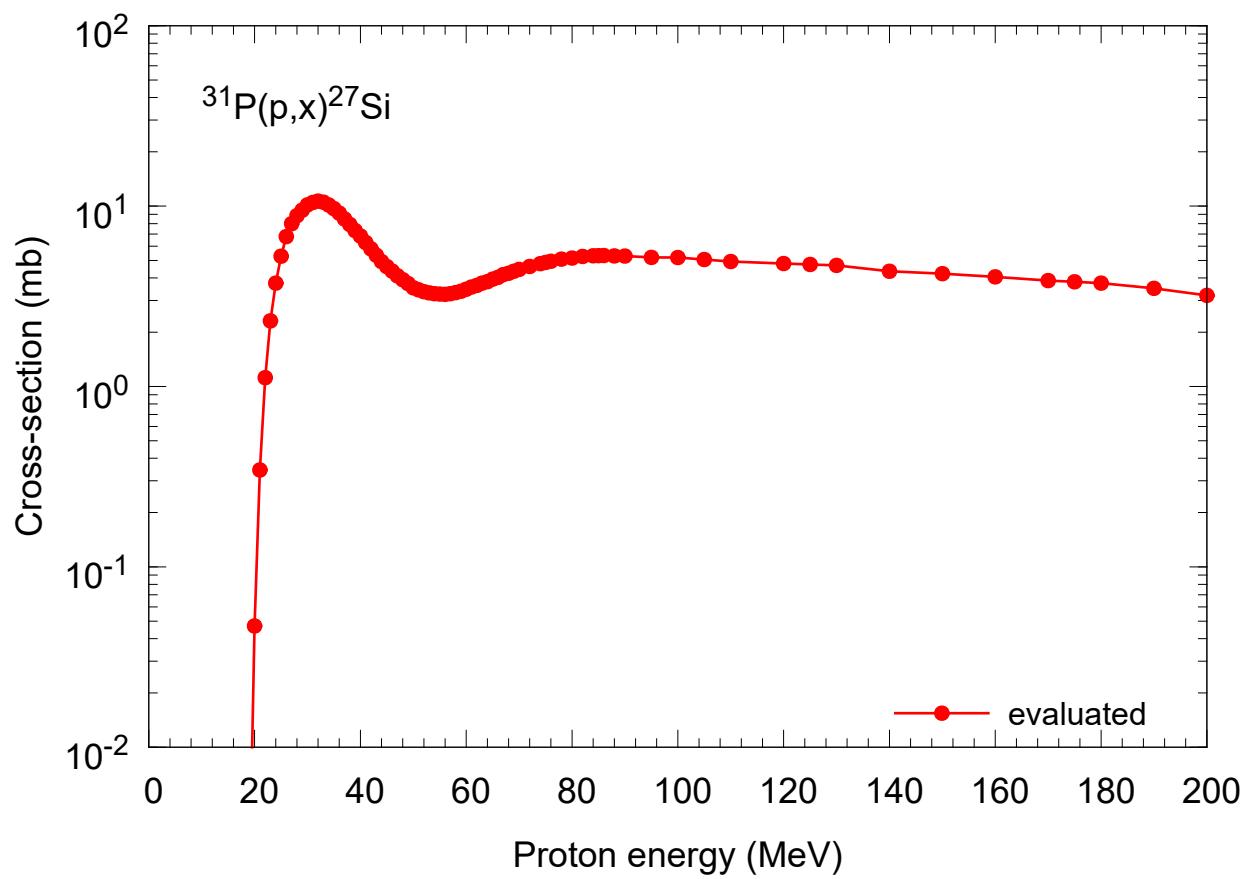
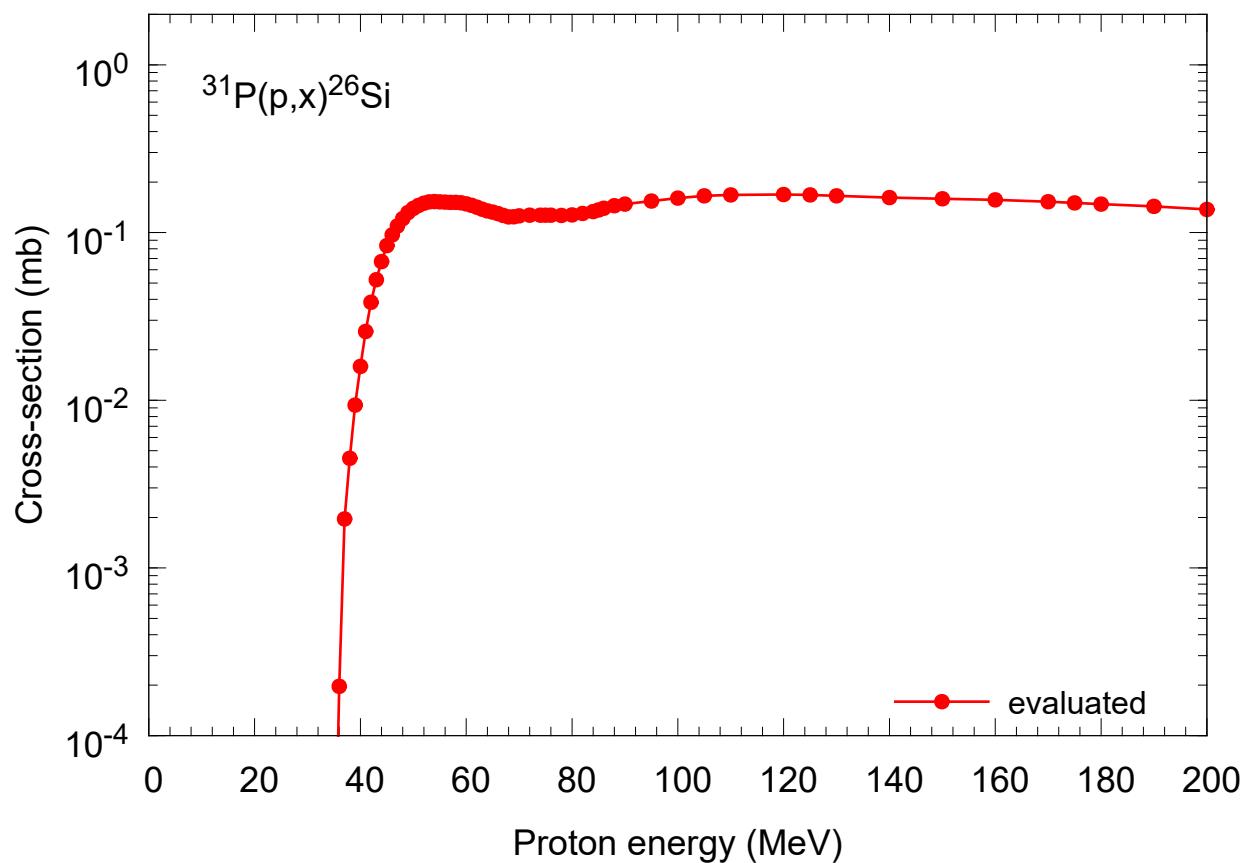


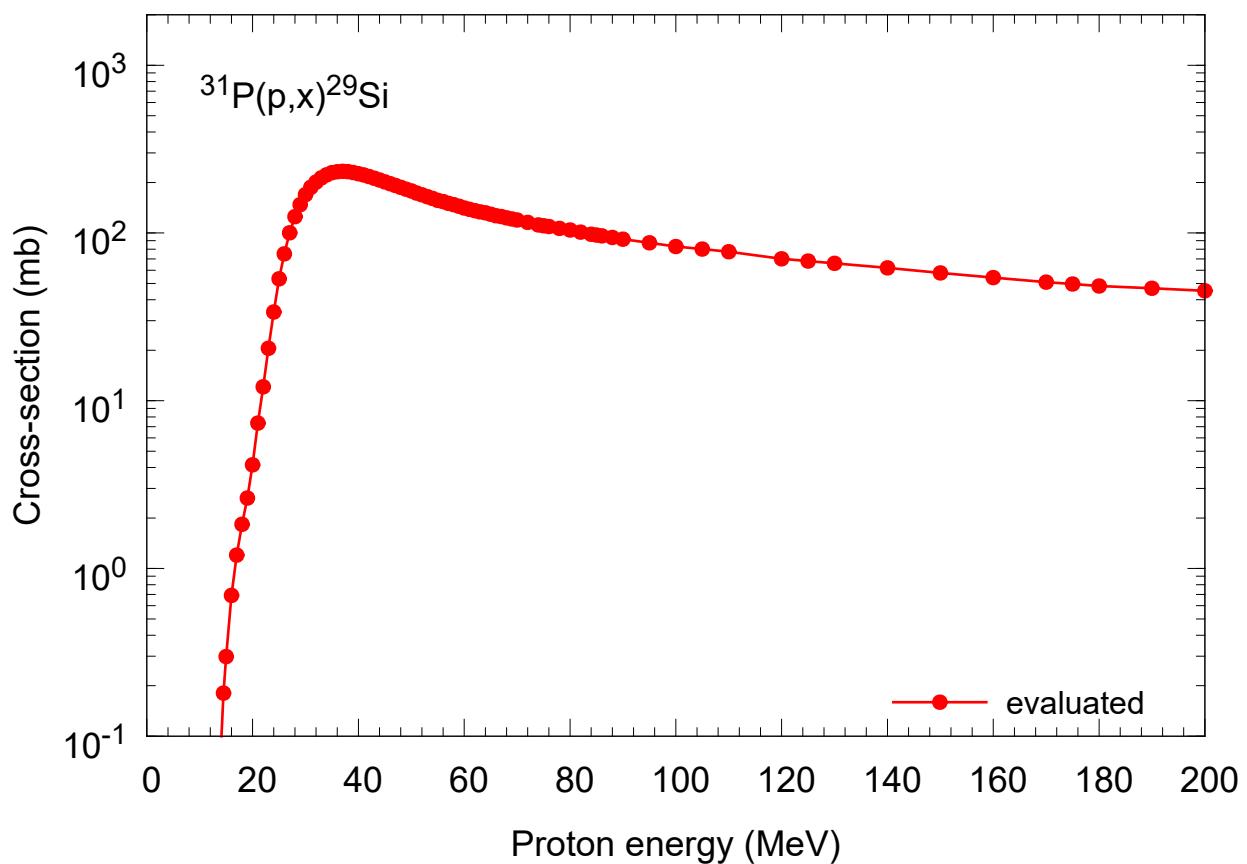
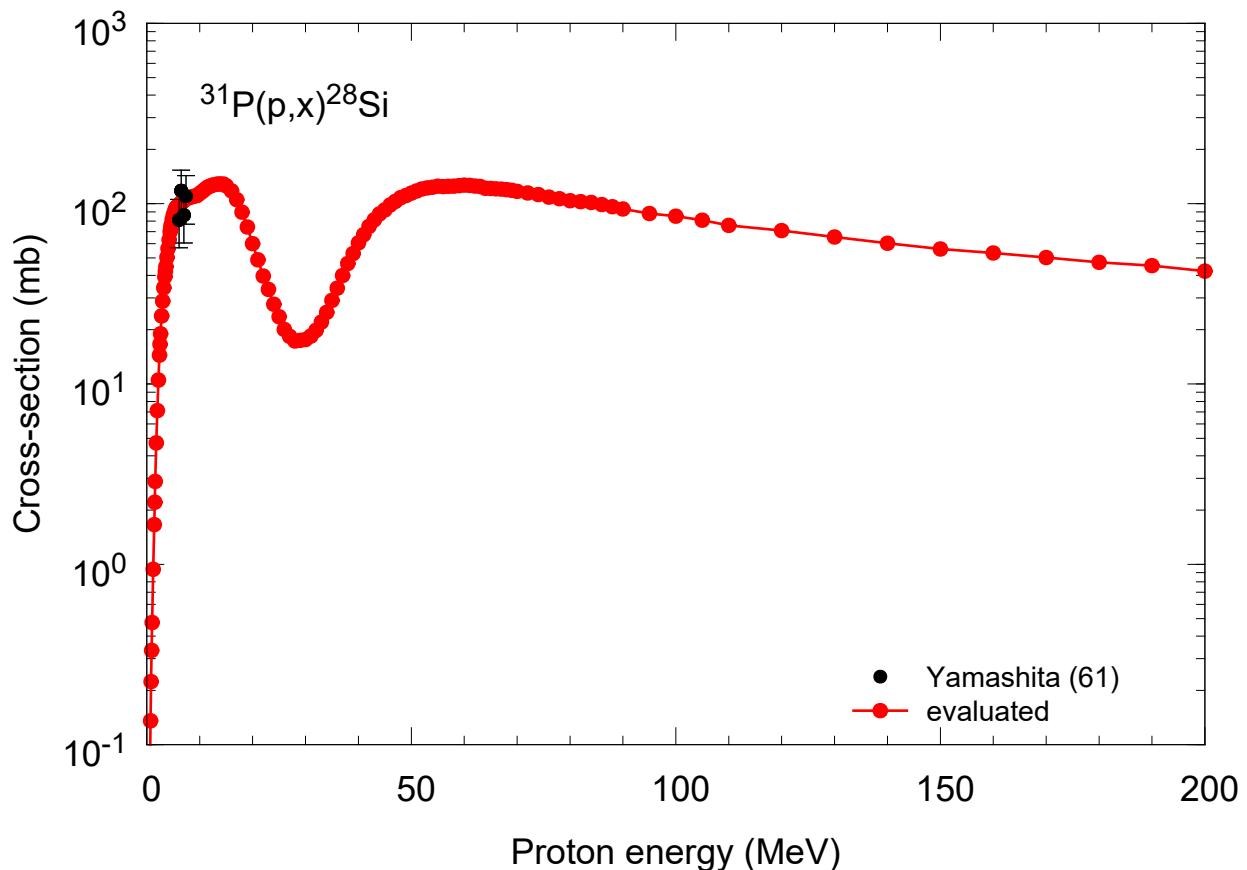


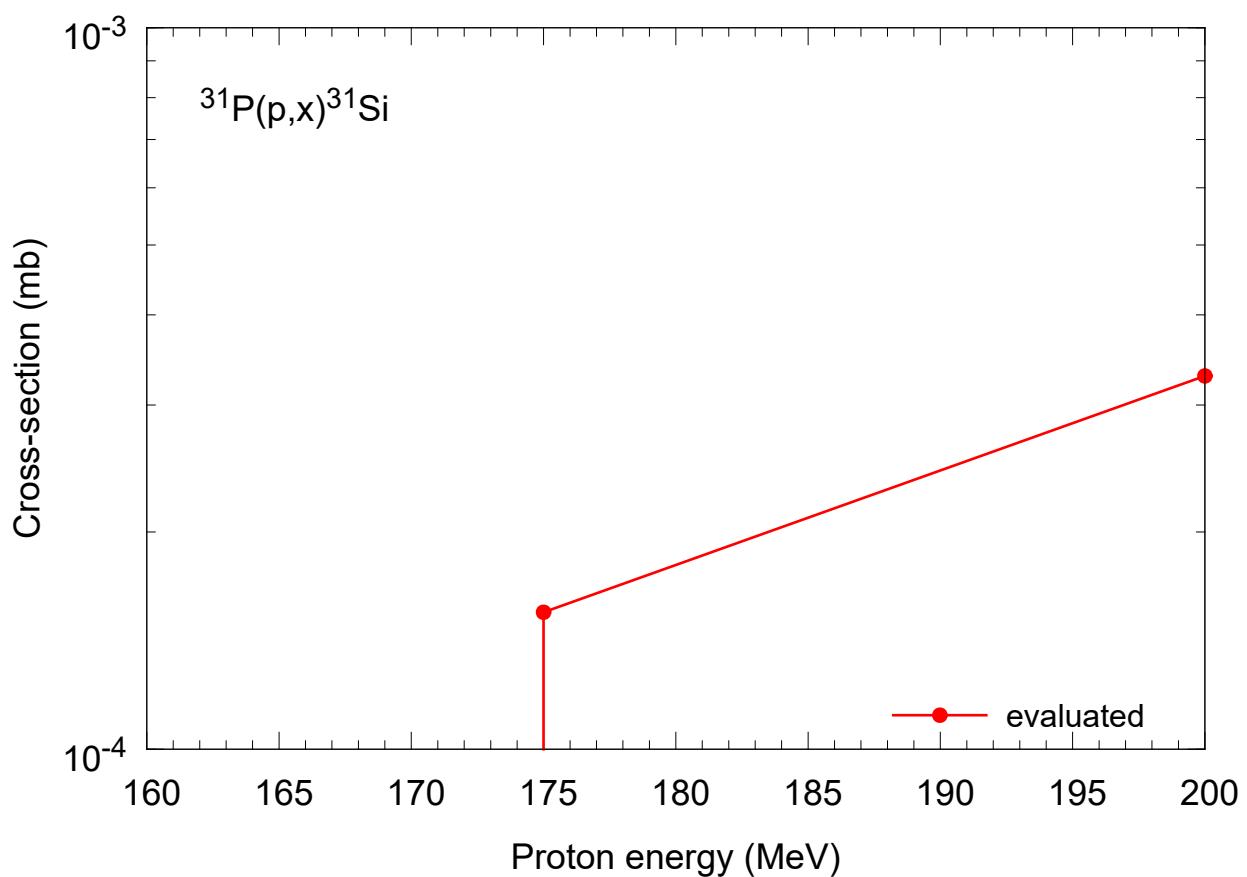
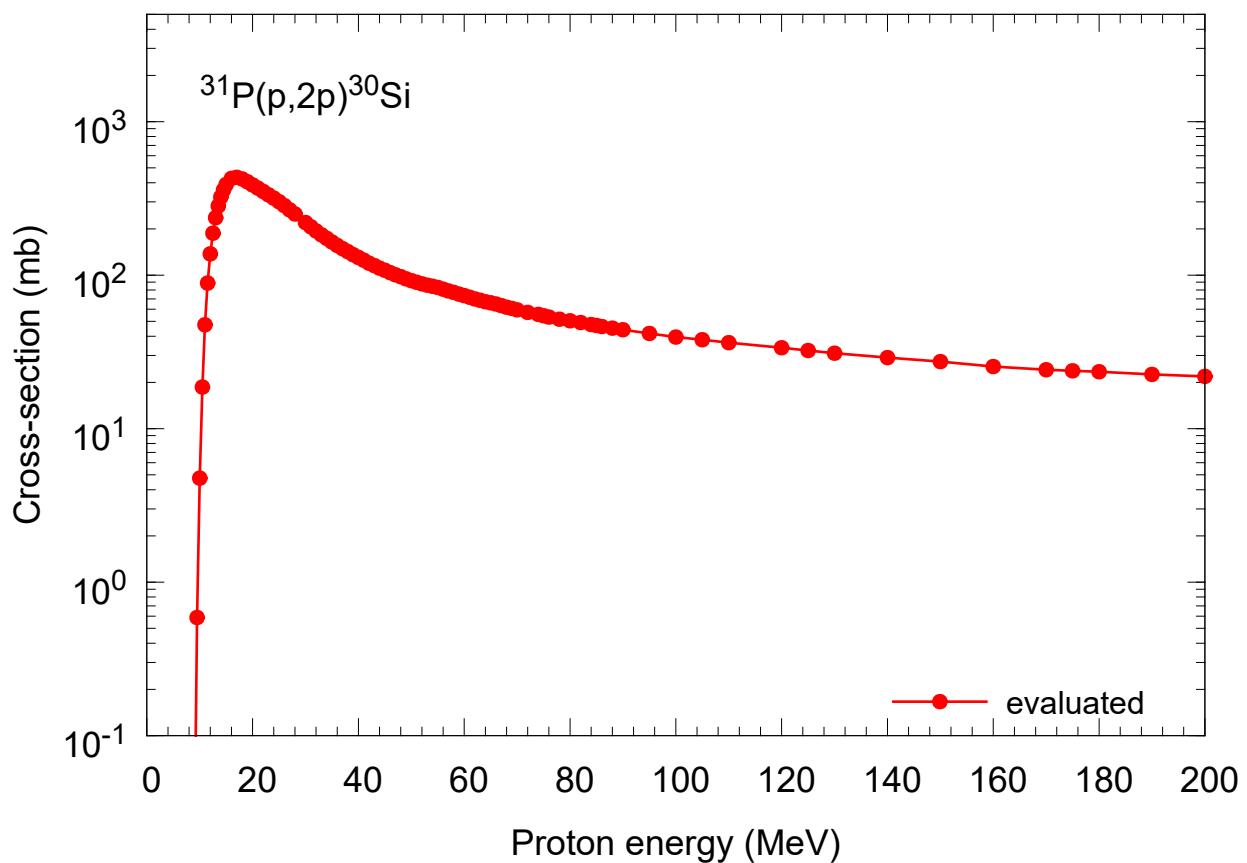


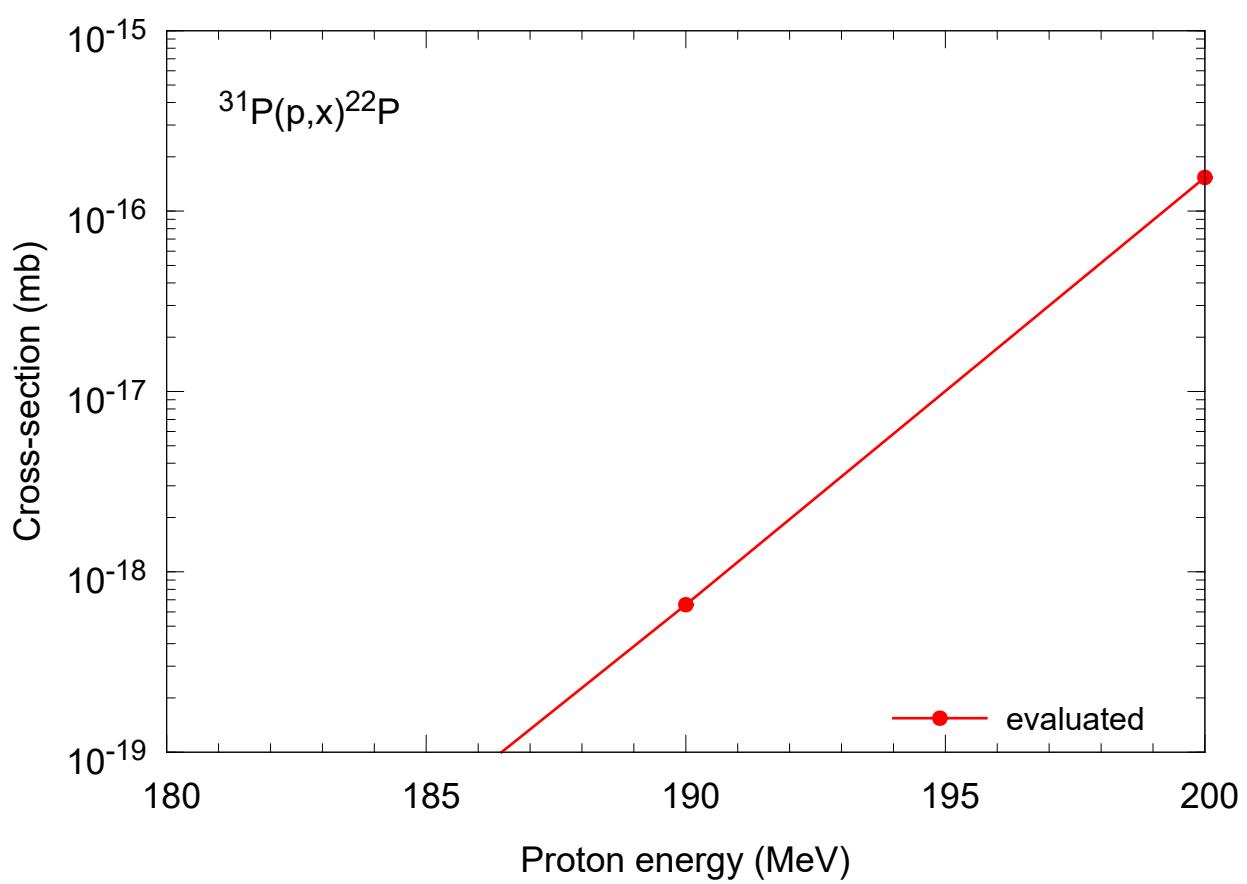
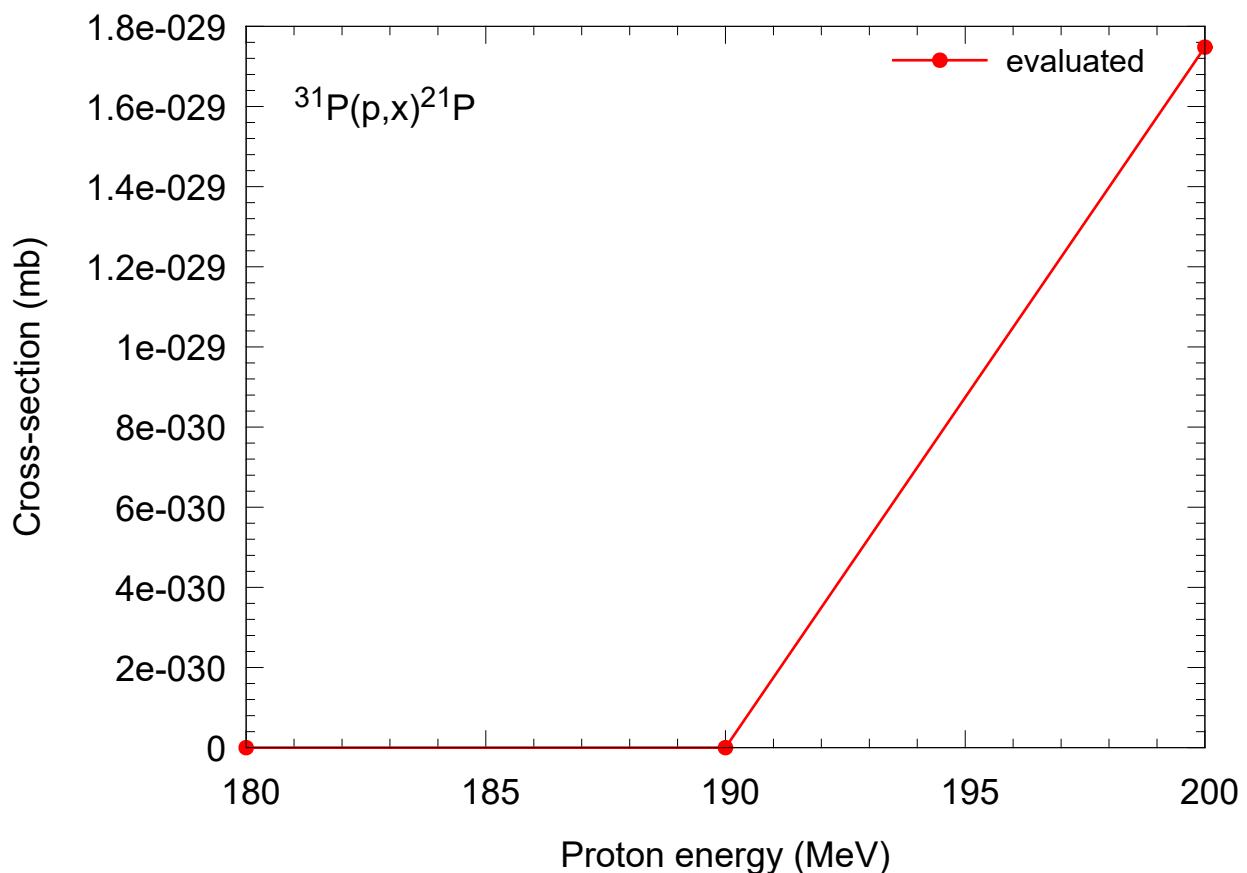


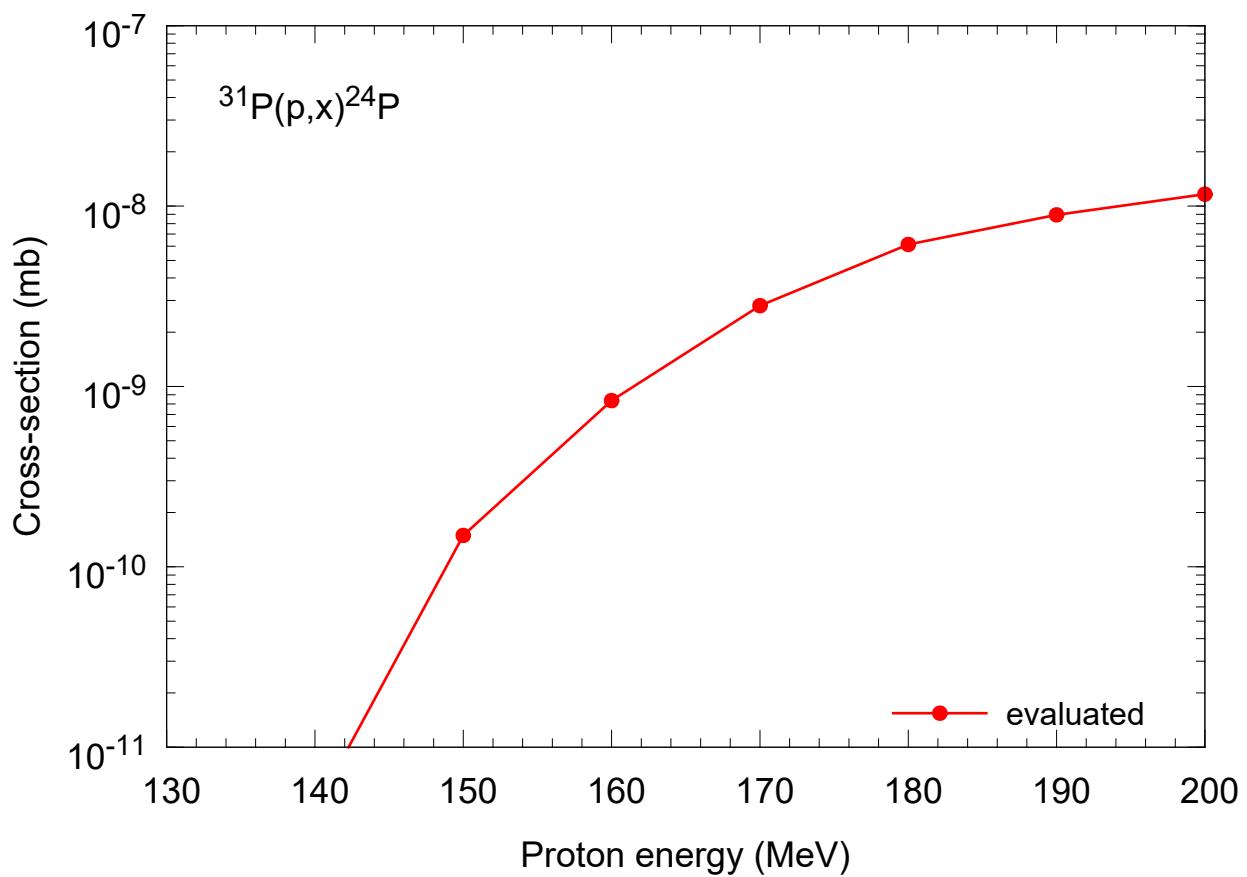
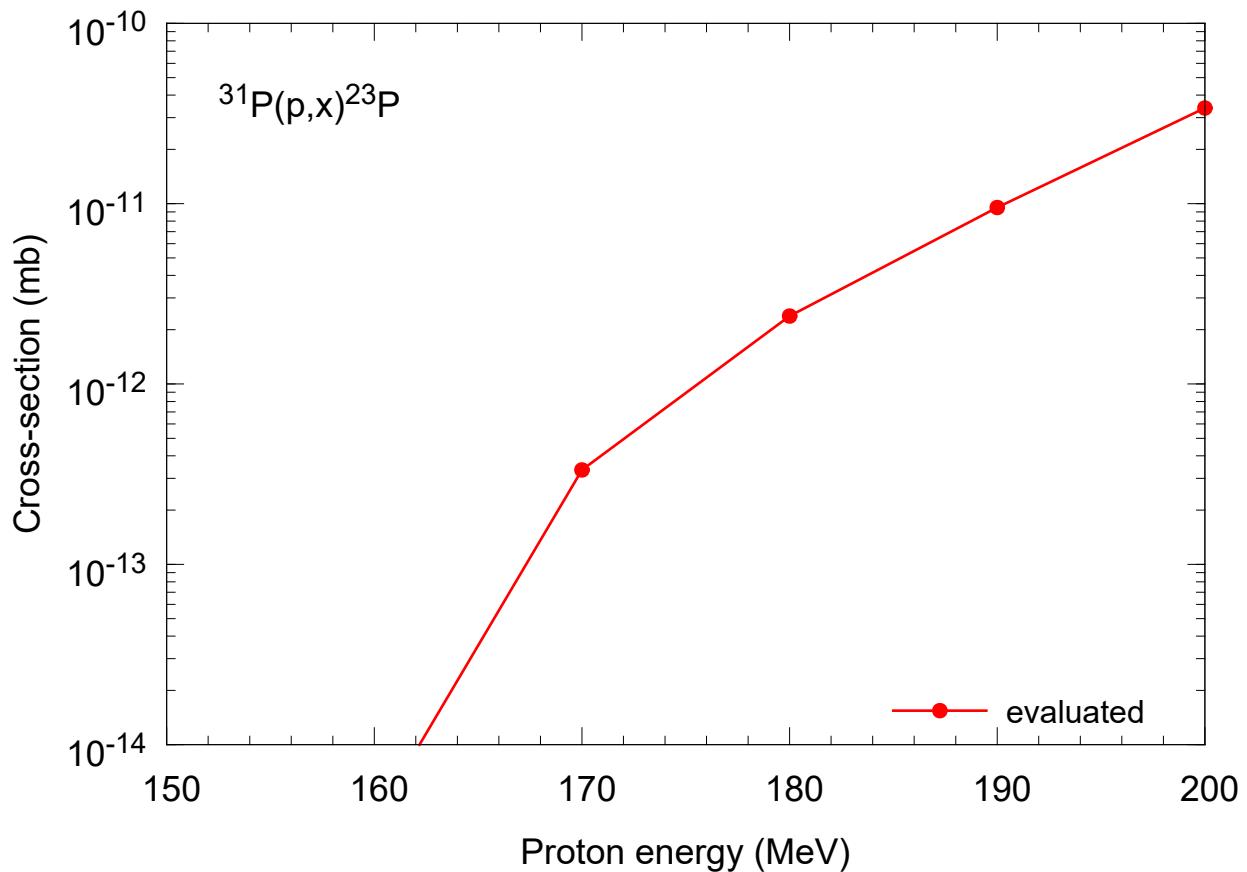


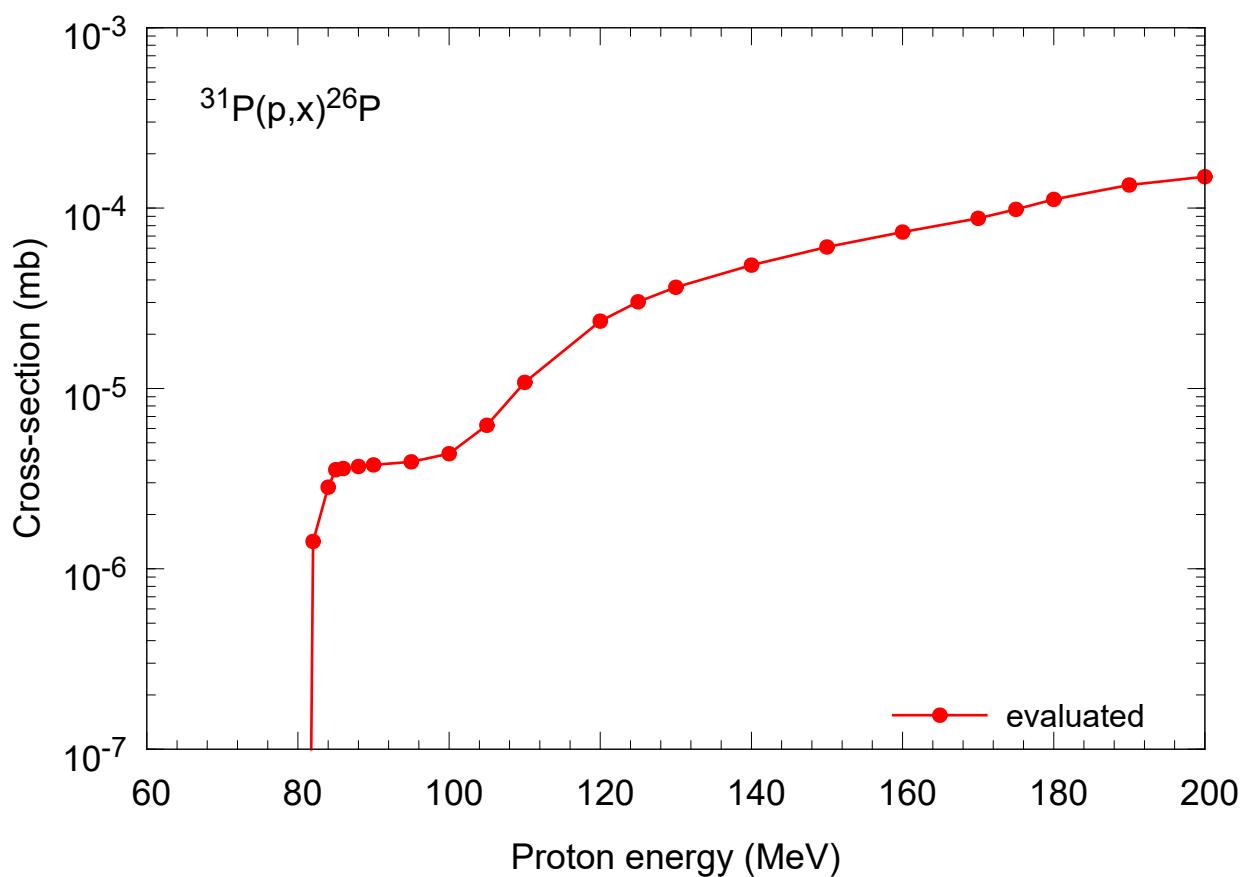
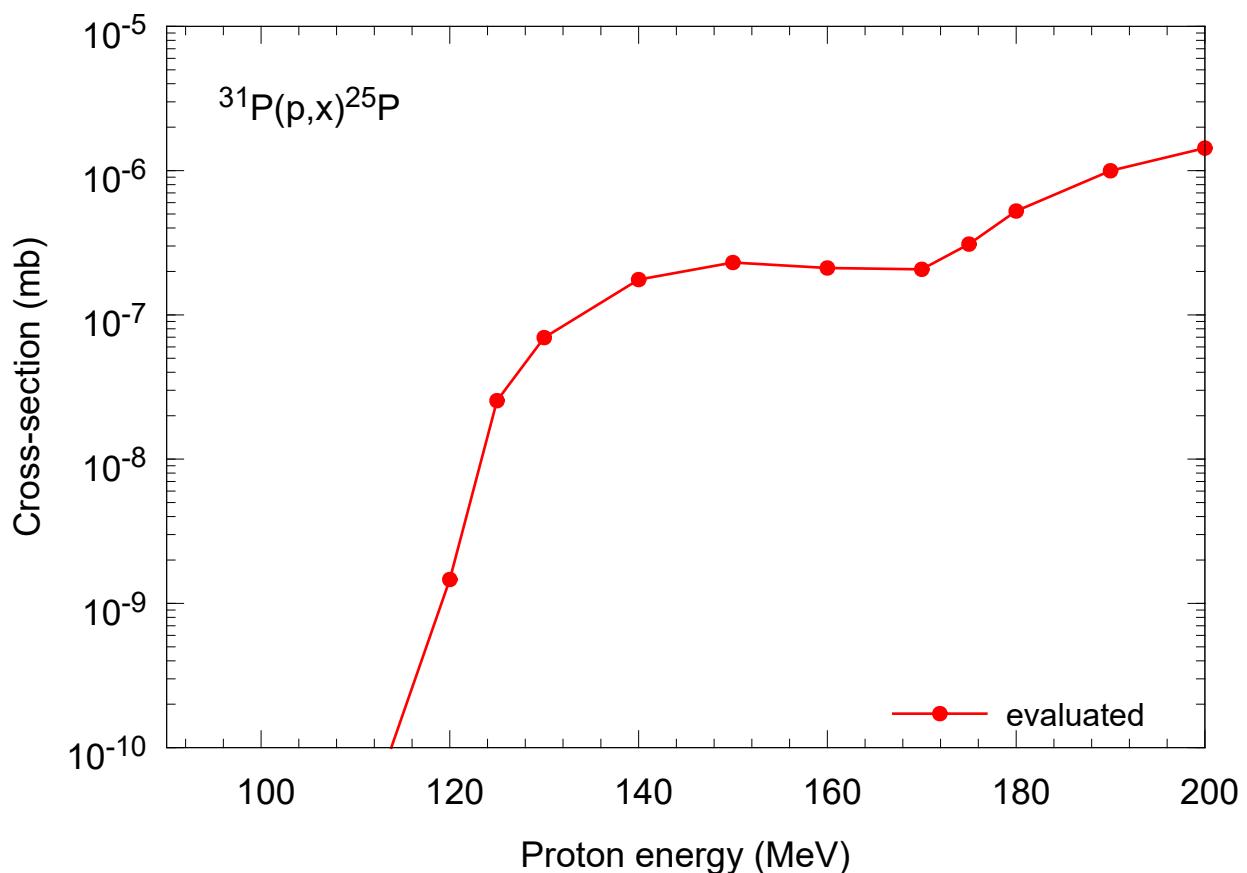


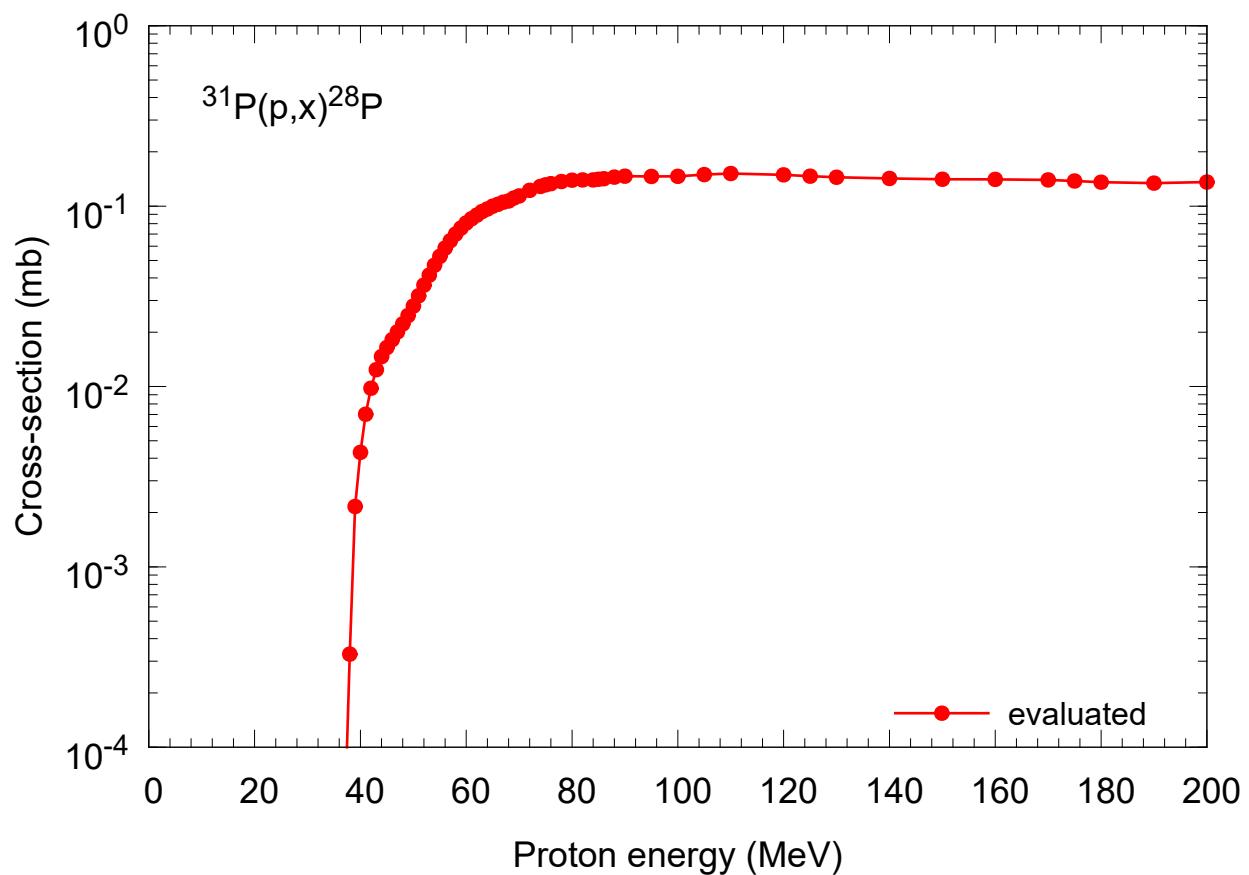
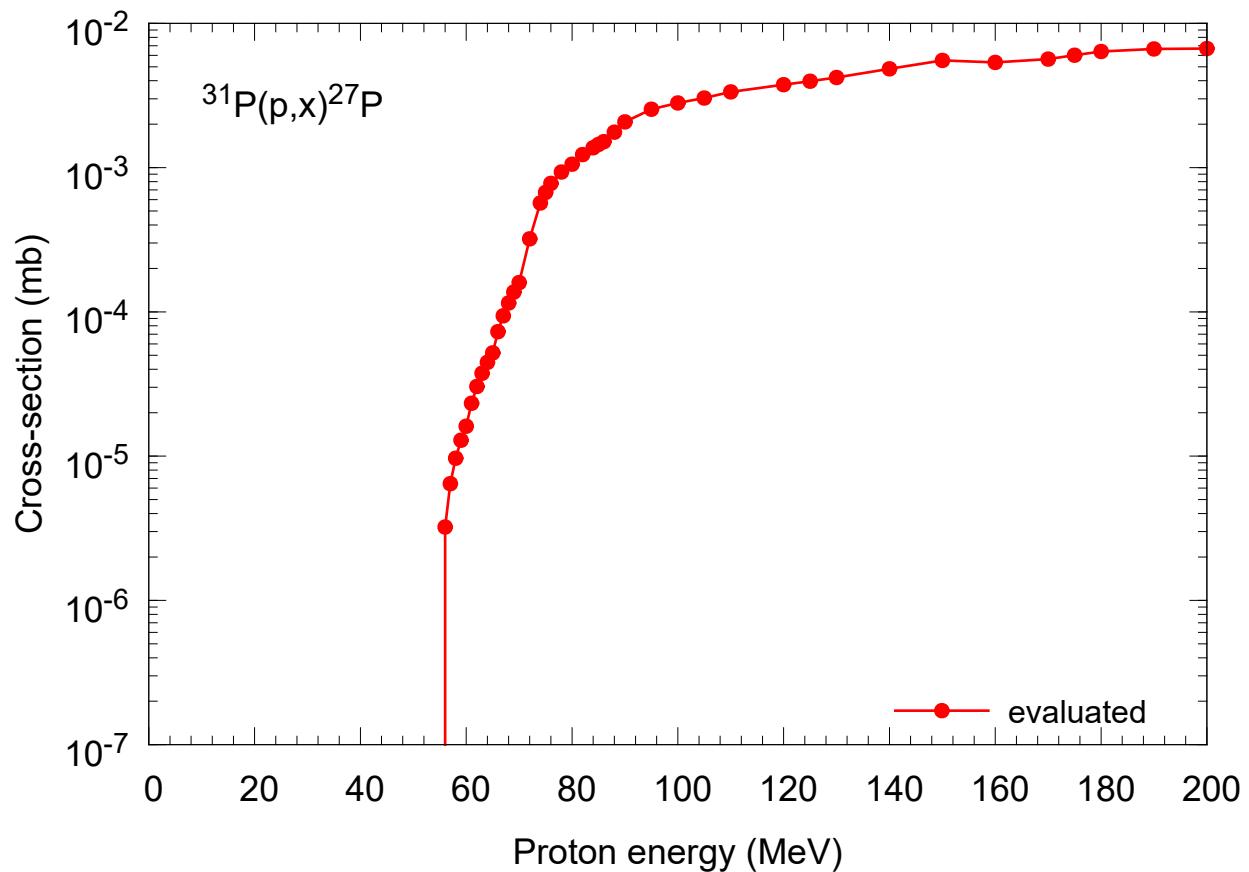


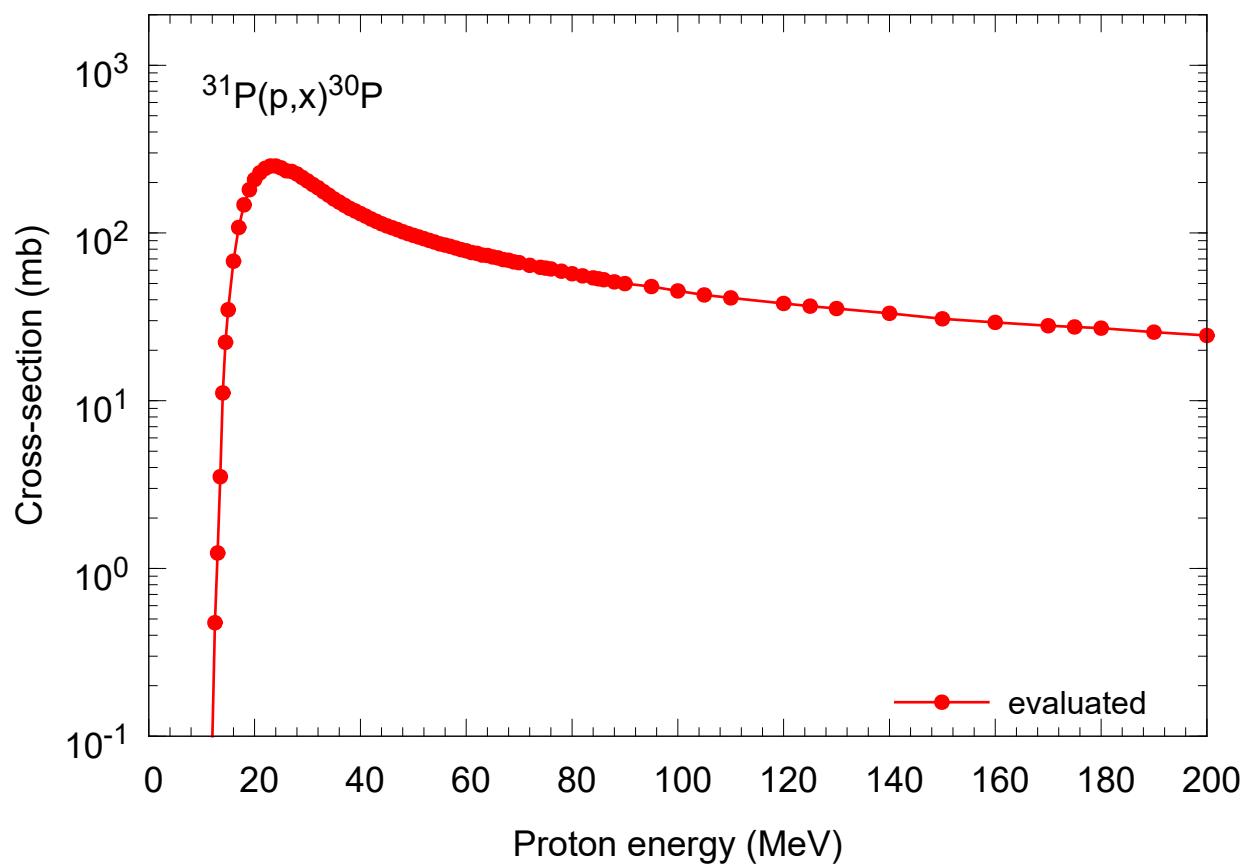
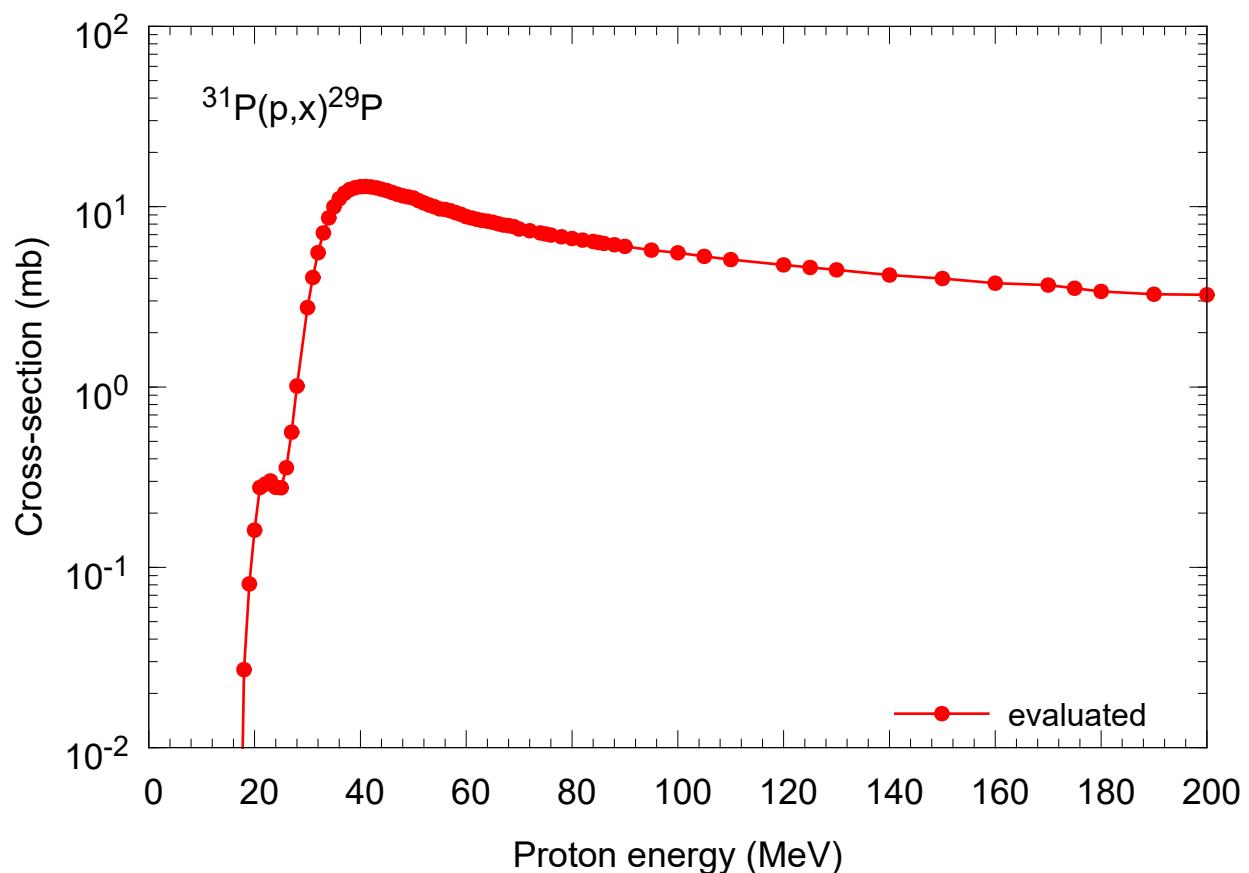


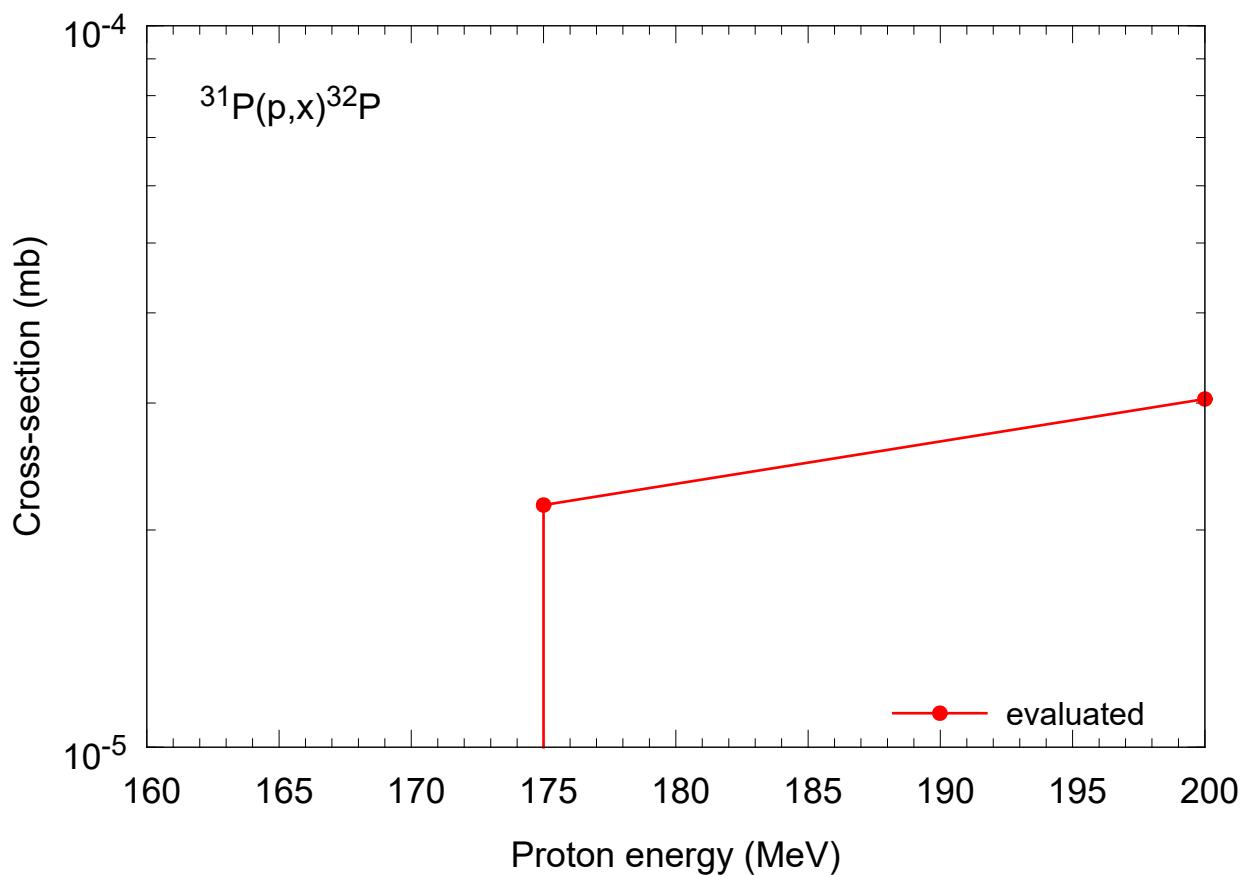
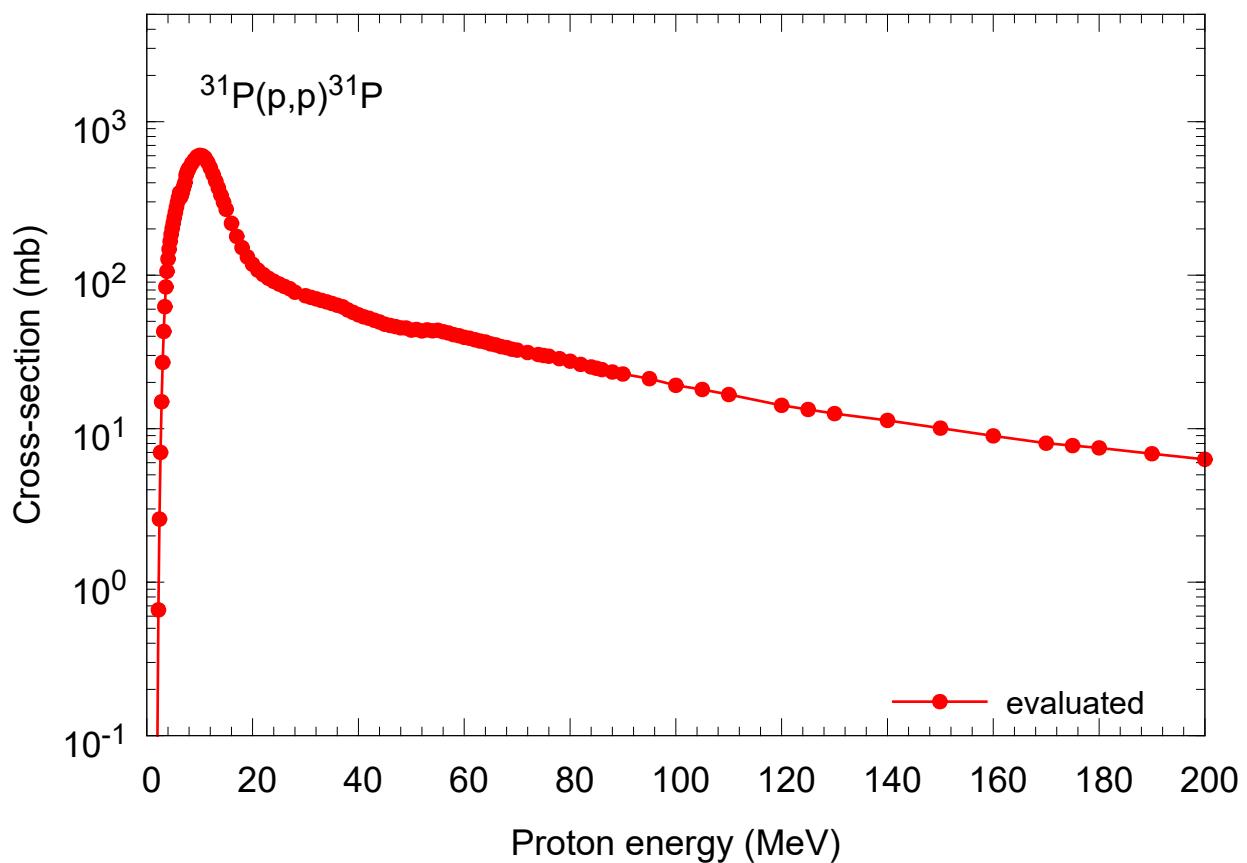


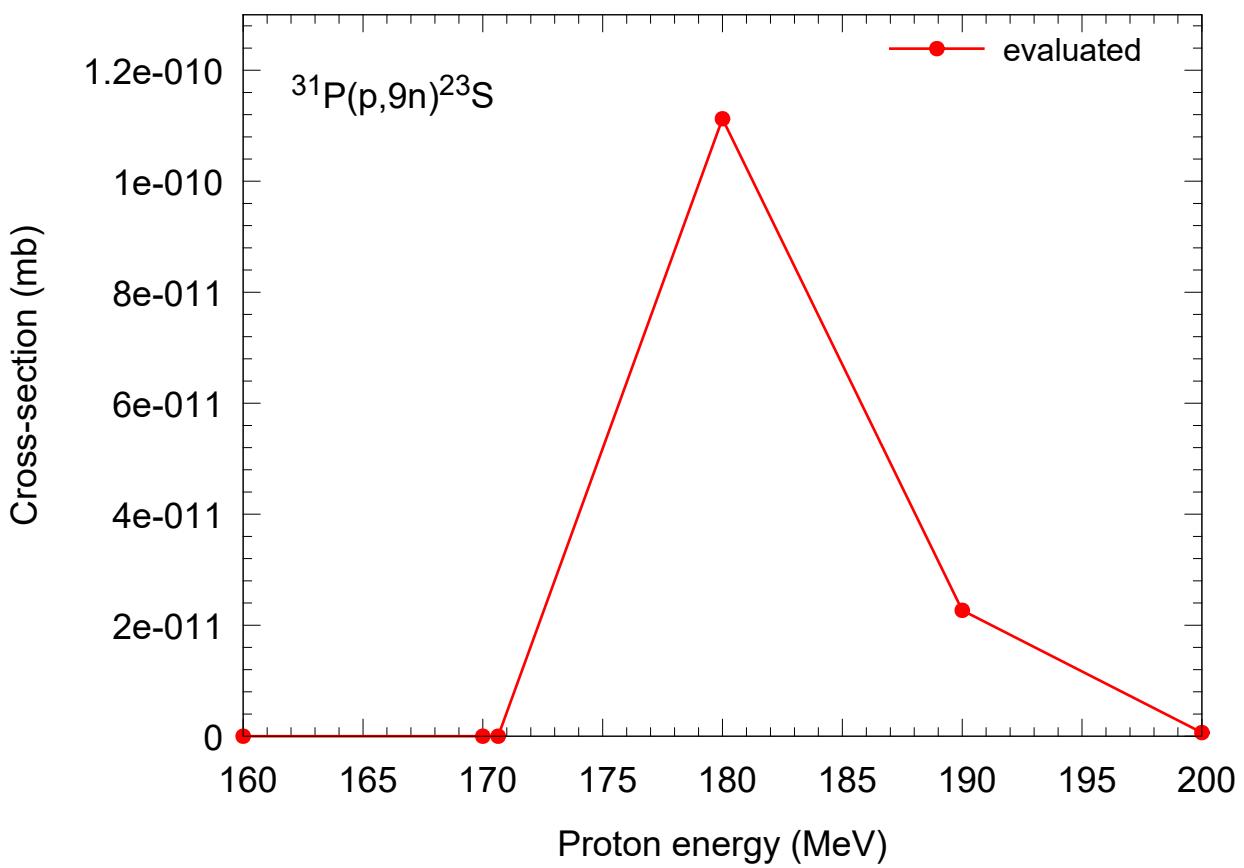
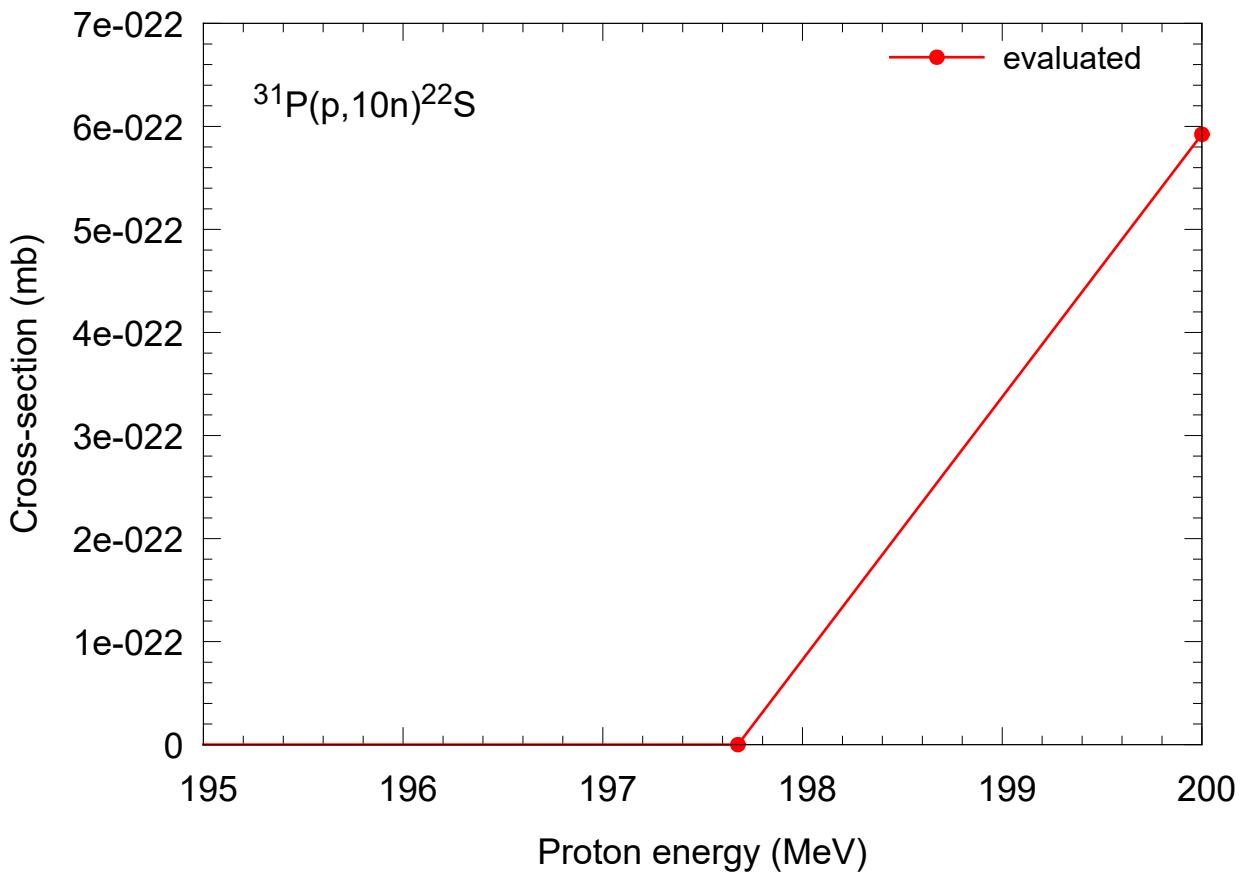


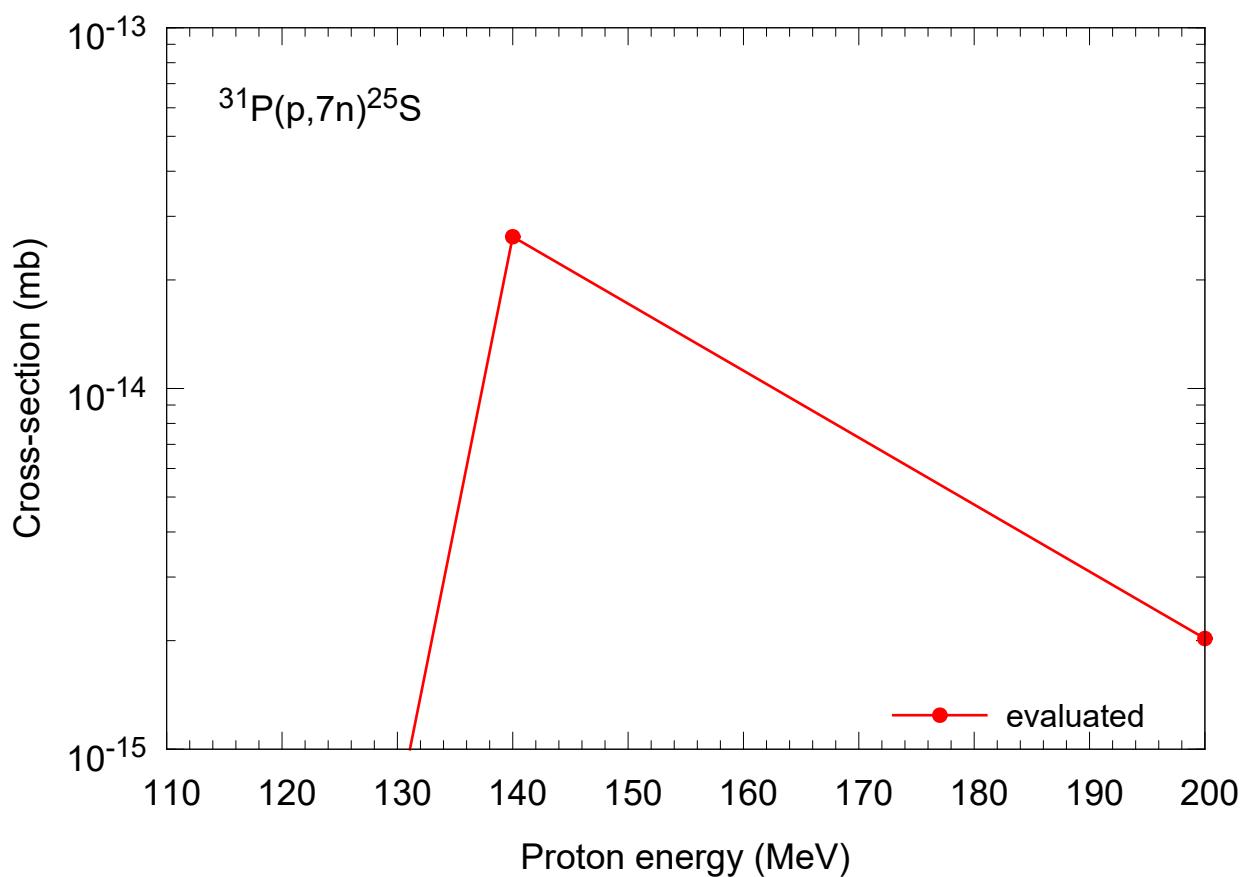
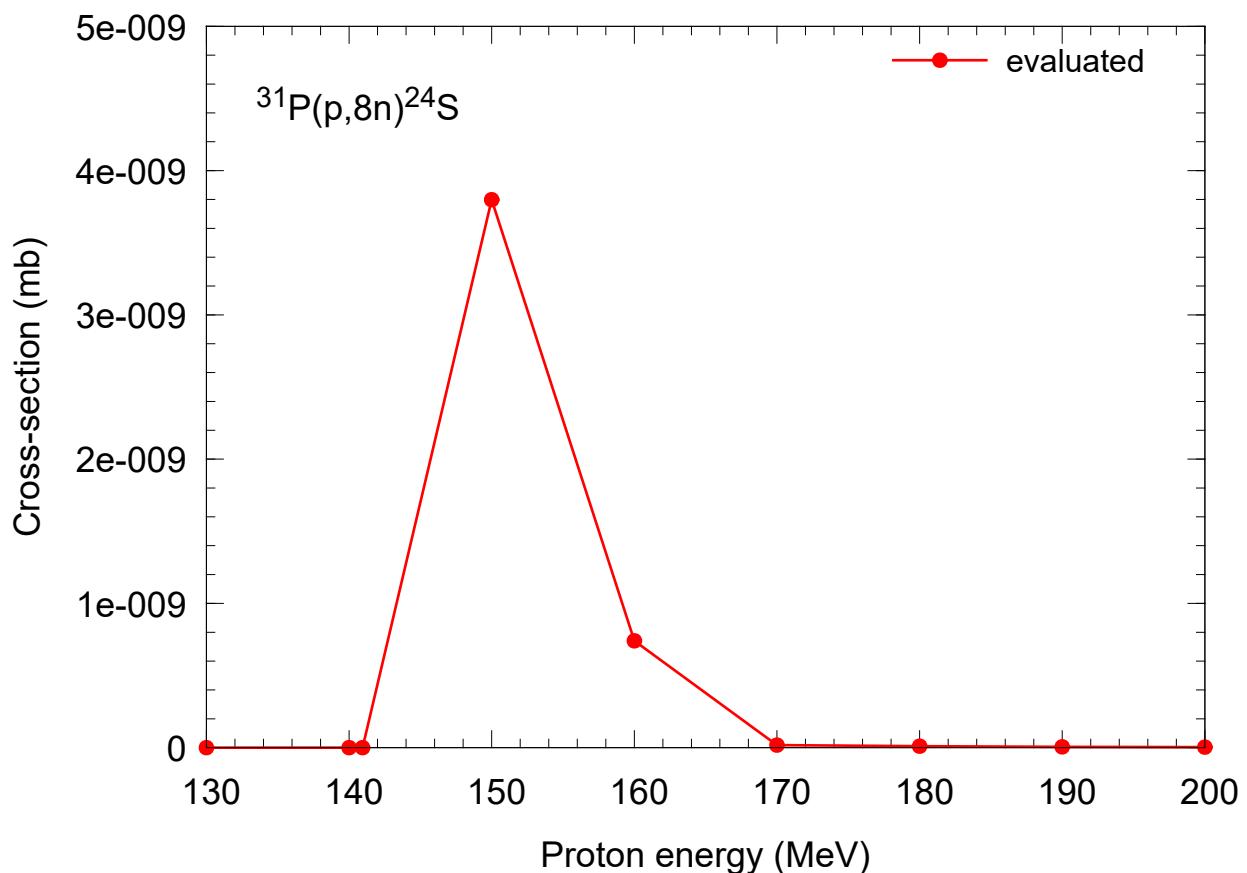


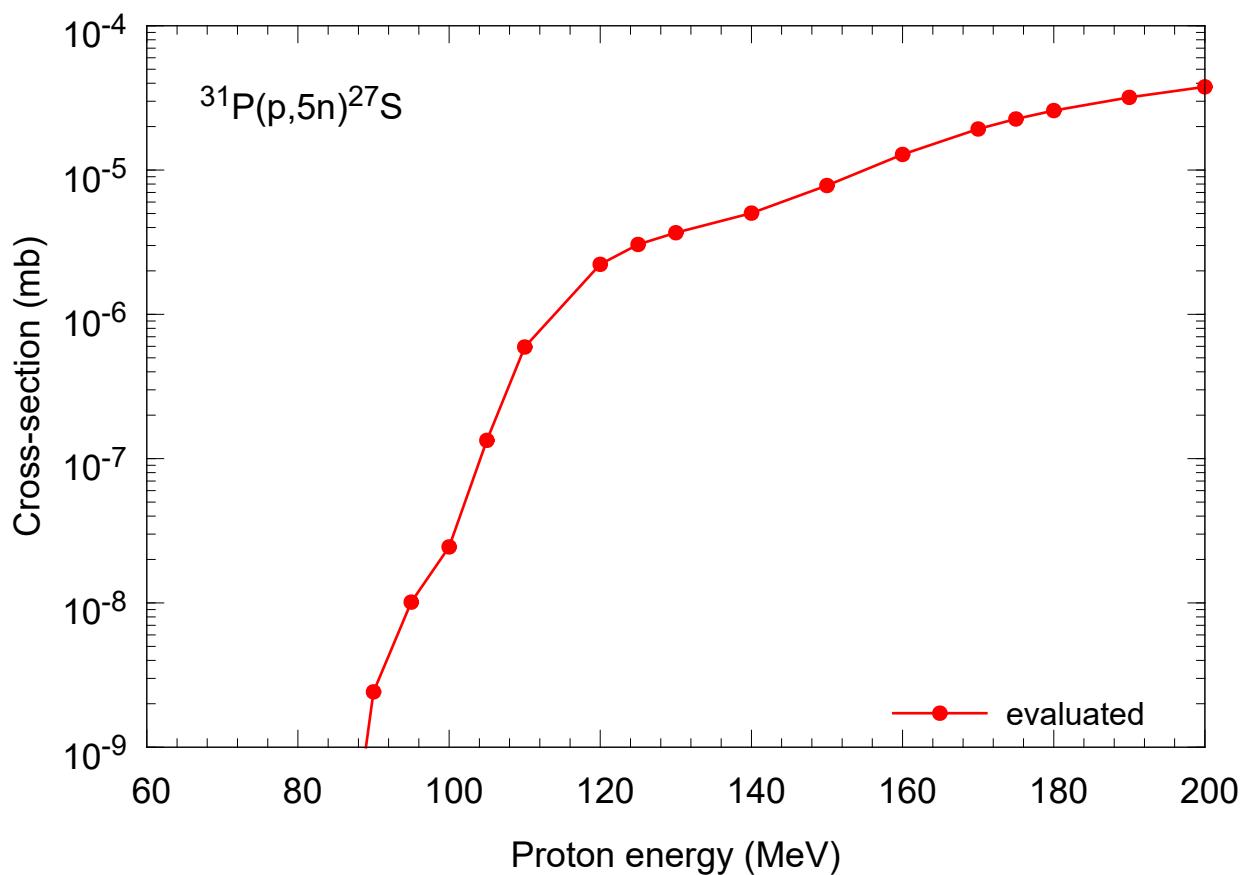
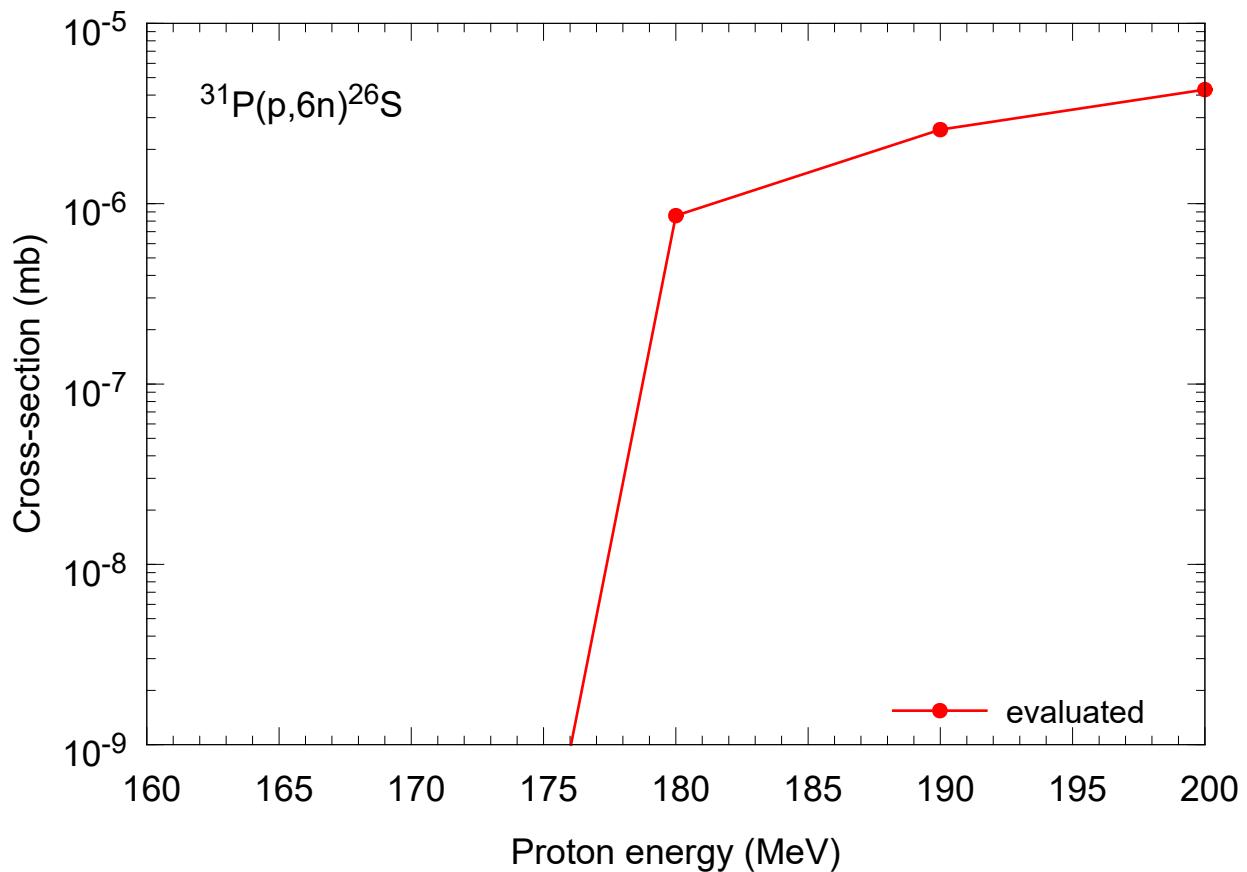


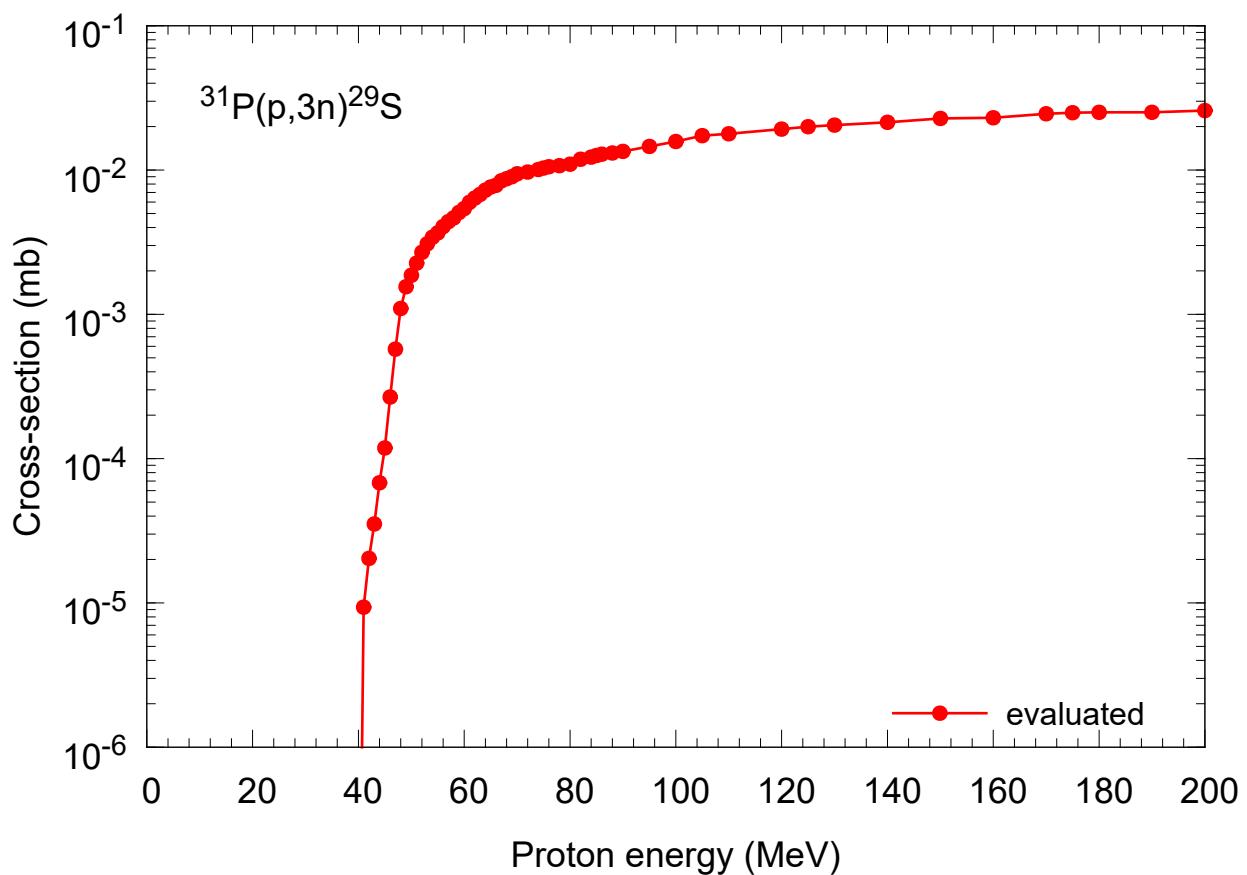
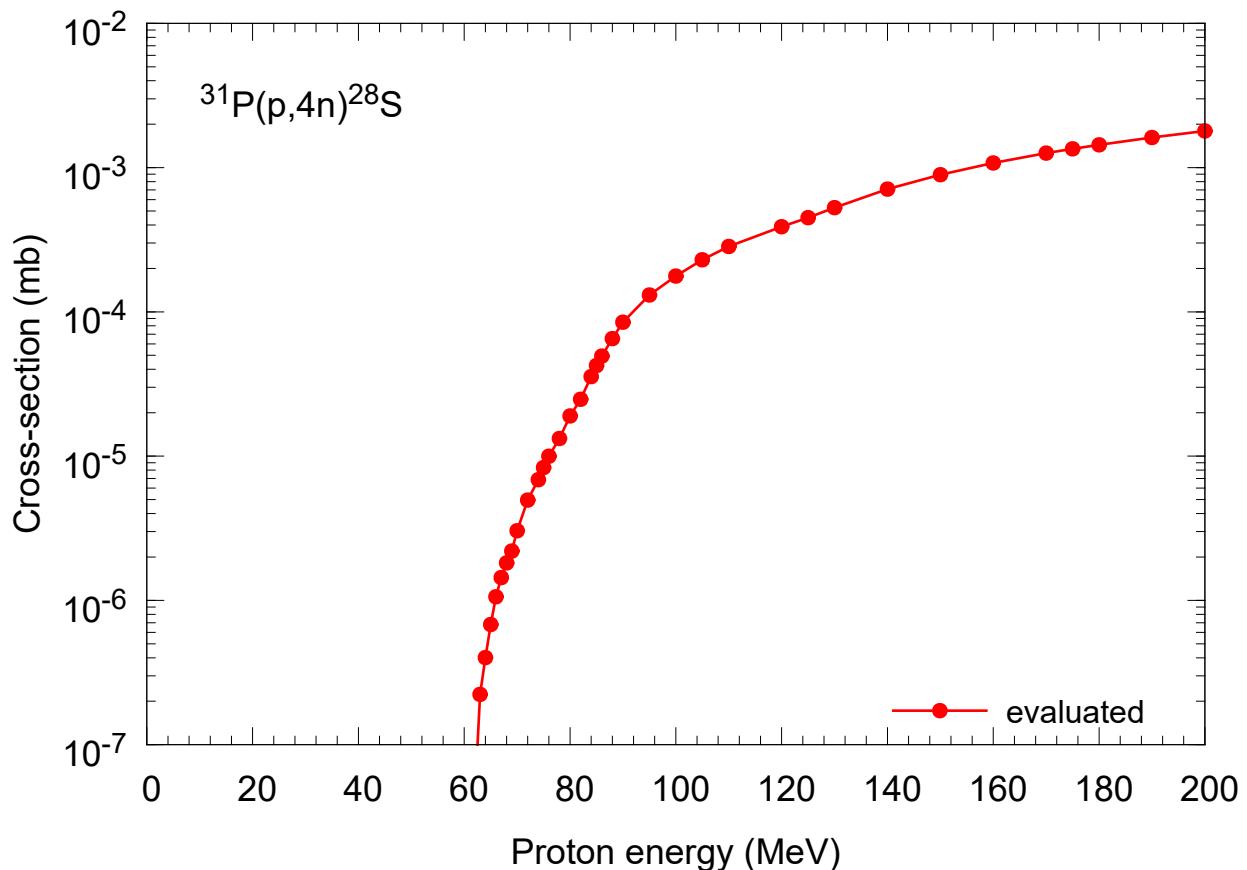


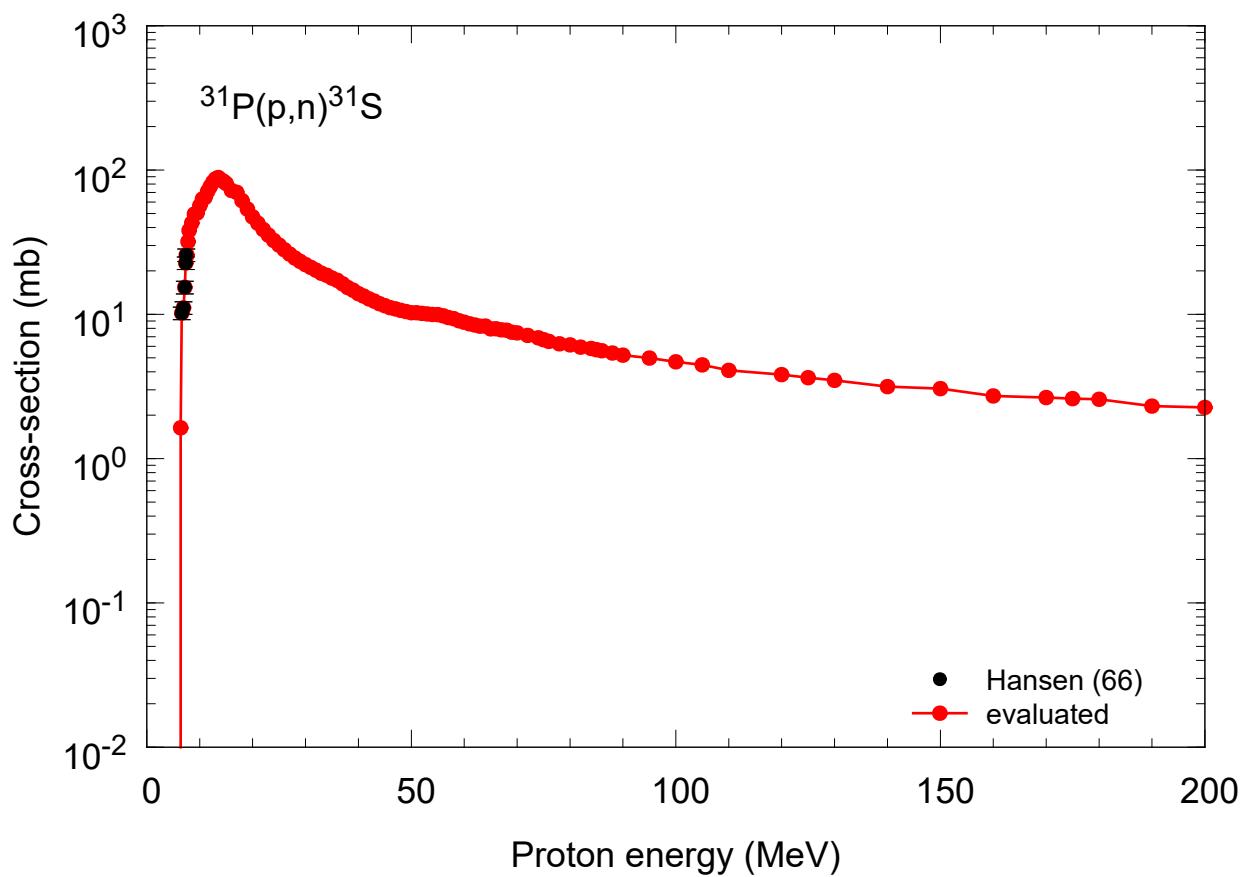
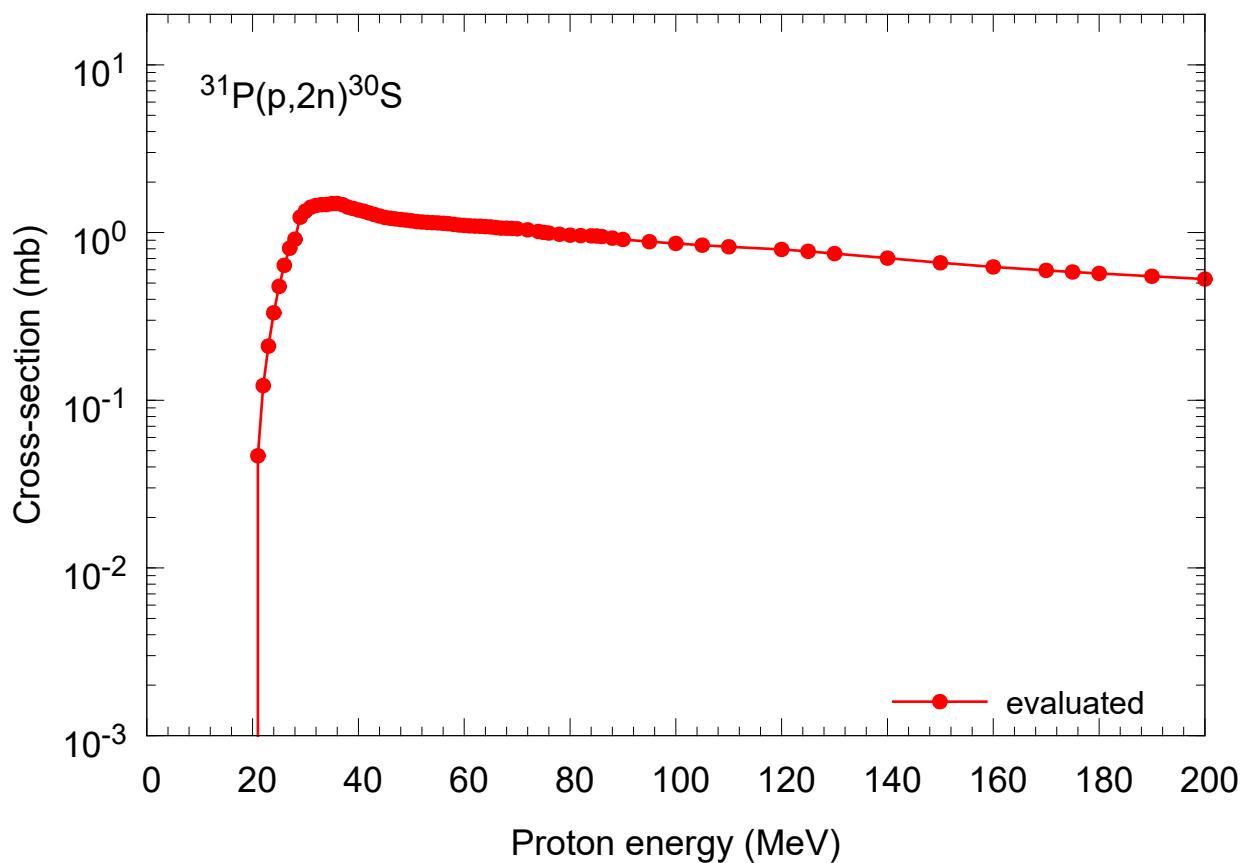


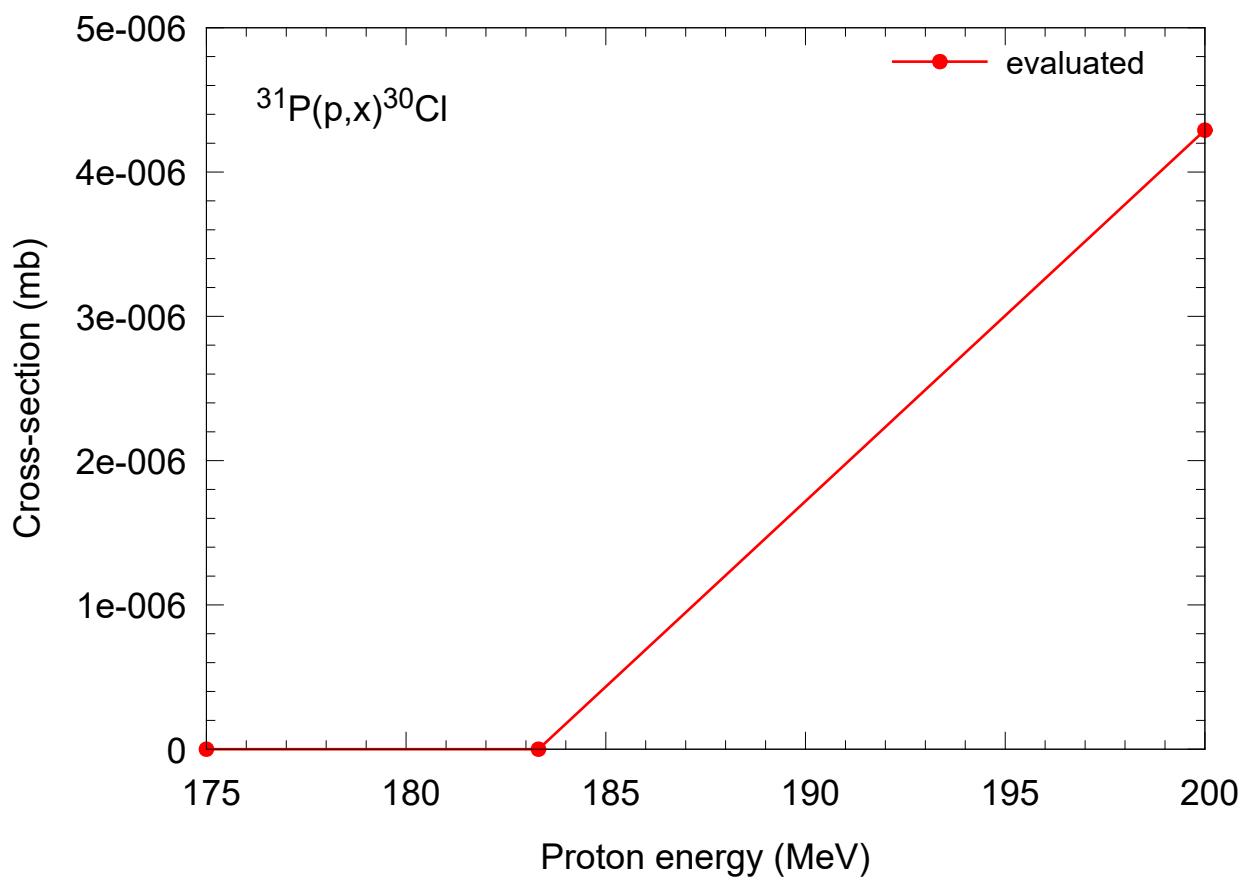
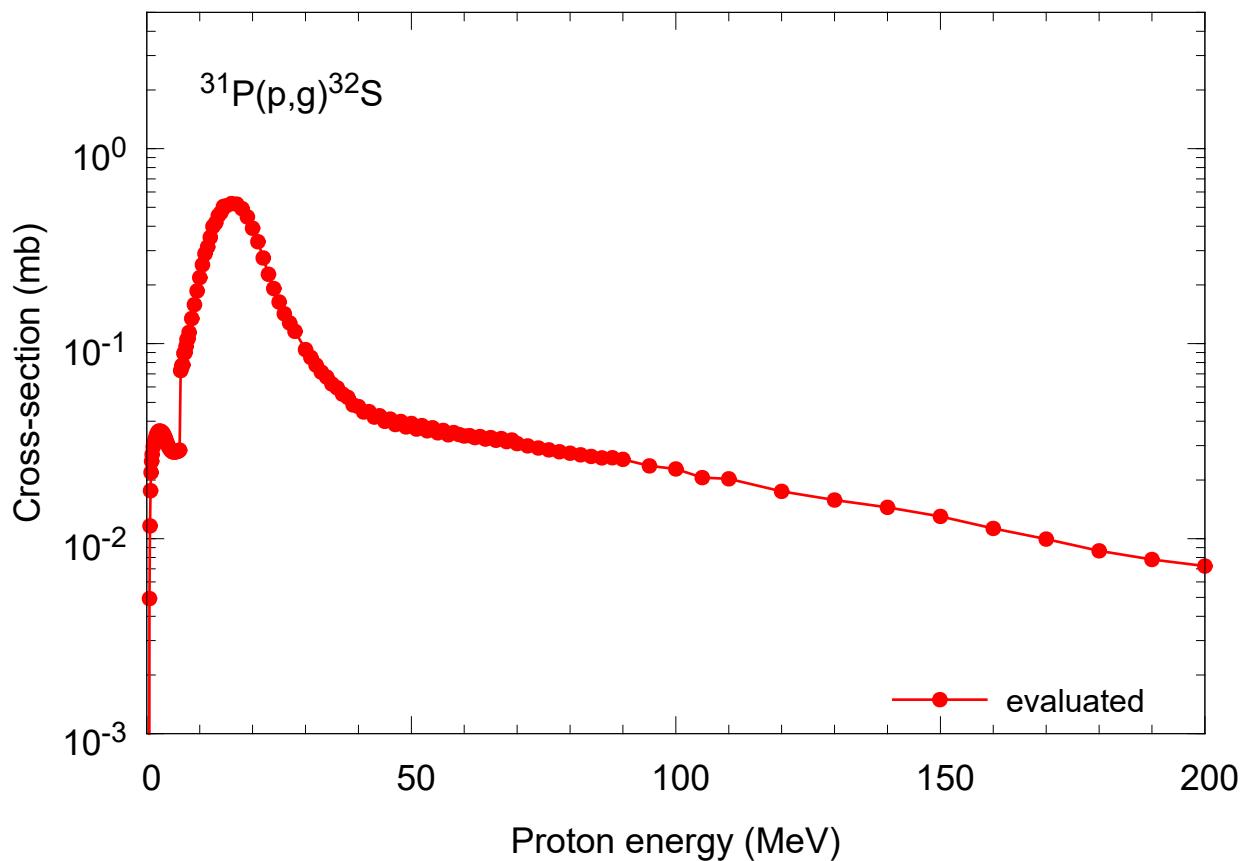


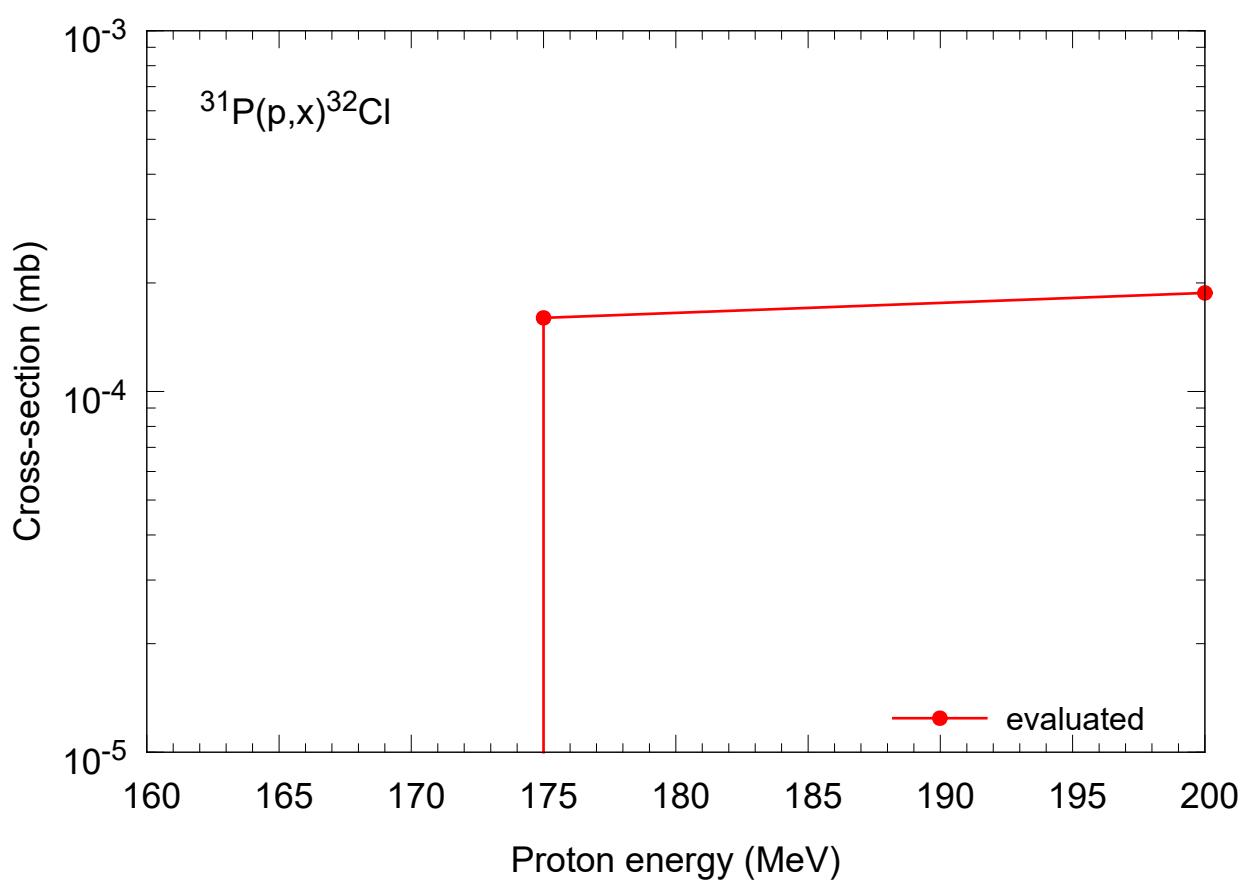
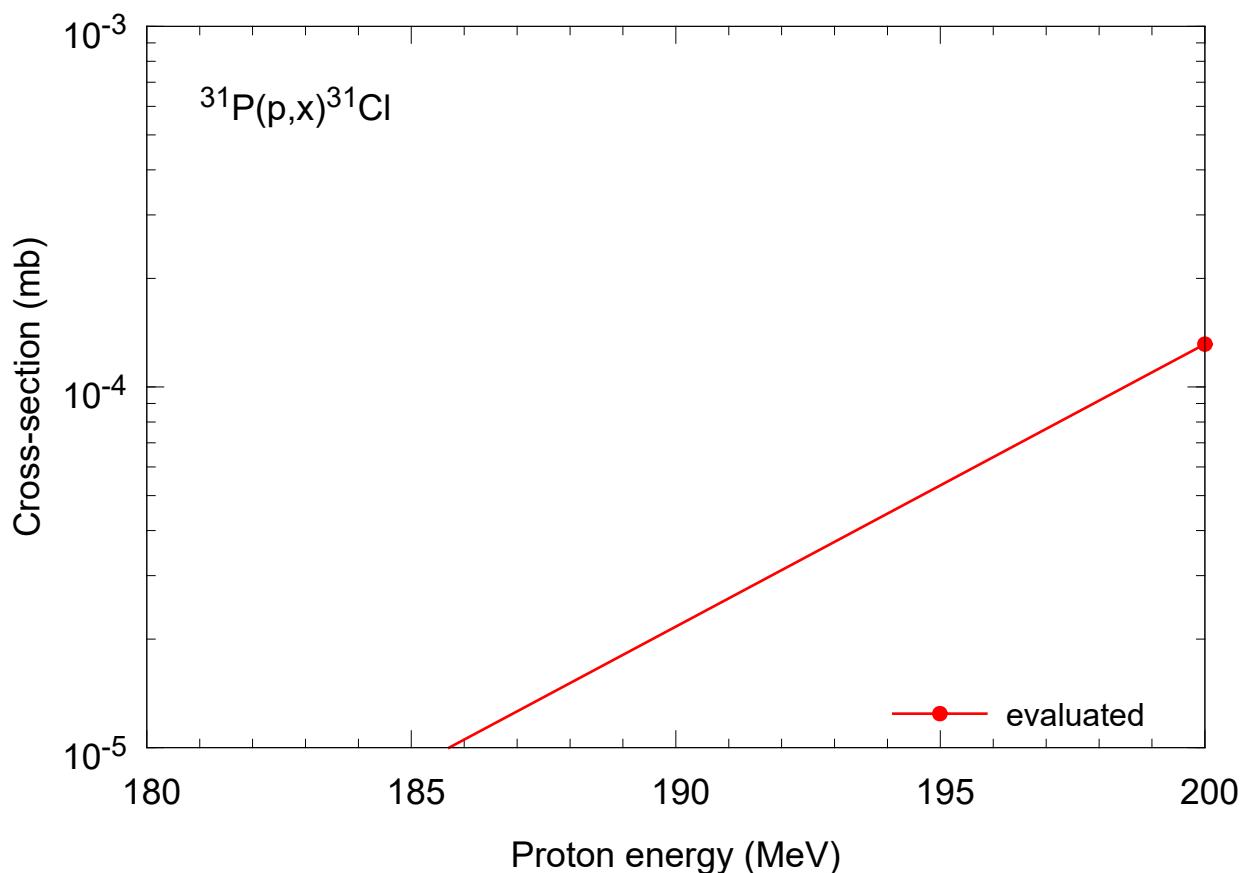












PADF-2
 1.3027004+2 2.674975+1 -1 0 0 11325 1451 0 0 0
 0.000000+0 0.000000+0 0 0 0 61325 1451 1
 9.986230-1 2.000000+8 1 0 10010 21325 1451 2
 0.000000+0 0.000000+0 0 0 432 31325 1451 3
 13-A1- 27 KIT EVAL-JUN22 Konobeyev, Leichtle 1325 1451 4
 PADF-2 DIST- 1325 1451 5
 ----PADF-2 Material 1325 1451 6
 ----Incident proton data 1325 1451 7
 ----ENDF-6 Format 1325 1451 8
 Proton Activation Data File -2

 Authors: A.Yu.Konobeyev, D.Leichtle

 Data evaluation was performed using experimental data [1-79] and results of model calculations.
 Cross sections were calculated using various codes and nuclear models [80-84]. Results served both for comparison and control, and were used directly for evaluation.
 The following codes were used:
 - ALICE/ASH with emission of heavy clusters [80], 1325 1451 10
 - TALYS [81] applying different models for the calculation of nuclear level density with ldmodel parameter from 1 to 3, 1325 1451 11
 - TALYS-G [82] implementing the GDH model of M.Blann, 1325 1451 12
 - CEM03 [83], 1325 1451 13
 - PHITS [84] 1325 1451 14
 The latest versions of TALYS and PHITS codes used correspond to the time of the evaluation.
 The data for Na-22 and Na-24 were taken from A. Hermanne et al., Nucl. Data Sheets 148 (2018) pp.338-382
 File contains
 MF=1 MT=451 Description
 MF=8 MT=5 Short information formally required
 MF=10 MT=5 Cross-sections
 References
 1. V.N.Aleksandrov, M.P.Semenova, V.G.Semenov, Cross sections of radionuclide production in (p,x)-reactions on aluminum and silicon, Atomnaya Energiya, vol.64, p.445 (1988)
 2. F.Baros, S.Regnier, Measurement of cross sections for Na-22, Ne-20-22 and Ar-36-42 in the spallation of Mg, Al, Si, Ca and Fe, production ratios of some cosmogenic nuclides in meteorites, Journal de Physique, vol.45, p.855 (1984)
 3. R.E.Batzel, G.H.Coleman, Cross sections for the formation of 22Na from aluminium and magnesium bombarded with protons, Phys. Rev., vol.93, p.280 (1954)
 4. C.Baumer, C.Maximilian Backer, M.Gerhardt, E.Gruse, B.Koska, K.Kroninger, C.Nitsch, H.Rulkötter, H.M.Siregar, B.Timmermann, N.Verbeek, J.Wulff, A.Yazgan, Measurement of absolute activation cross sections from carbon and aluminum for proton therapy, Nucl. Instr. Meth. Phys. Res. B, vol.440, p.75 (2019)
 5. R.Bimbo, H.Gauvin, Spallation reactions of light nuclei induced by protons from 50, 100 to 153 MeV, Comptes Rendus, Serie B, Physique, vol.273, p.1054 (1971)
 6. N.S.Biryukov, B.V.Zhuravlev, A.P.Rudenko, O.A.Salnikov, V.I.Trykova, Direct and equilibrium processes in (p,n) reactions at proton energy of 22.2 MeV, Yadernaya Fizika, vol.31, p.561 (1980)
 7. J.P.Blasler, F.Boehm, P.Marmier, P.Scherrer, Excitation functions of the (p,n) reaction for light elements, Helvetica Physica Acta, vol.24, p.465 (1951)
 8. R.Bodemann, H.-J.Lange, I.Leya, R.Michel, T.Schiekel, R.Rosel, U.Herpers, H.J.Hofmann, B.Dittrich, M.Suter, W.Woelfli, B.Holmqvist, H.Conde, P.Malmborg, Production of residual nuclei by proton-induced reactions on C, N, O, Mg, Al and Si, Nucl. Instr. Meth. Phys. Res. B, vol.82, p.9 (1993)
 9. V.I.Bogatin, V.F.Litvin, O.V.Lozhkin, N.A.Perfilov, YU.P.Yakovlev, Isotopic effects IN high-energy nuclear reactions and isospin correlations of fragmentation cross sections, Nucl. Phys. A, vol.260, p.446 (1976)
 10. P.C.Brun, M.Lefort, X.Tarrago, Contribution a l'étude du double pick-up indirect mesure de la production de tritium par des protons de 82 et 105 MeV dans diverses cibles, Journal de Physique, vol.23, p.167 (1962)
 11. C.Brun, M.Lefort, X.Tarrago, Determination of proton beam intensities from 40 to 150 MeV, Journal de Physique, vol.23, p.371 (1962)
 12. I.F.Bubb, J.M.Poate, R.H.Spear, Excitation function of the reaction Al27(p,n)Si27, Nucl. Phys., vol.65, p.655 (1965)
 13. E.Z.Buthelezi, F.M.Nortier, I.W.Schroeder, Excitation functions for the production of 82Sr by proton bombardment of natrb at energies up to 100 MeV, Appl. Rad. Isot., vol.64, p.915 (2006)
 14. C.W.Cheng, J.D.King, Cross sections and thermonuclear reaction rates for the 24Mg(a,n)27Si, 25Mg(p,n)25Al, 27Al(p,n)27Si, and 28Si(a,n)31S reactions, Can. J. Phys., vol.58, p.697 (1980)
 15. G.Chodil, R.C.Jopson, H.Mark, C.D.Swift, R.G.Thomas, M.K.Yates, (p,n) and (p,2n) cross sections on nine elements between 7.0 and 15.0 MeV, Nucl. Phys. A, vol.93, p.648 (1967)
 16. C.Chronidou, K.Spyrou, S.Harissopoulos, S.Koiosianides, T.Paradellis, Resonance strength measurements of the 27-Al(p,gamma)28-Si reaction in the energy range Ep = 0.8 - 2.0MeV, Europ. Phys. J. A, vol.6, p.303 (1999)
 17. B.L.Cohen, Triton-induced reactions in Na23, Al27, and Si29, Phys. Rev., vol.102, p.453 (1956)
 18. J.B.Cumming, Absolute cross section for the C-12(P, PN)C-11 reaction At 50 MeV, Nucl. Phys., vol.49, p.417 (1963)
 19. I.A.Currie, Tritium production by 6-Bev protons, Phys. Rev., vol.114, p.878 (1959)
 20. B.Dittrich, U.Herpers, H.J.Hofmann, W.Woelfli, R.Bodemann, M.Lupke, R.Michel, P.Dragovitsch, D.Filges, AMS measurements of thin-target cross sections for the production of 10-Be and 26-Al by high-energy protons, Nucl. Instr. Meth. Phys. Res. B, vol.52, p.588 (1990)
 21. I.Dostrovsky, H.Gauvin, M.Lefort, (p,xp) and (p,xpva) reactions of 156-MeV protons with light targets (A=11 to A=27), Phys. Rev., vol.169, p.836 (1968)
 22. M.Fassbender, B.Scholten, S.M.Qaim, Radiochemical studies of (P, BE-7) reactions on biologically relevant elements in the proton energy range of 50 to 350 MeV, Radiochimica Acta, vol.81, p.1 (1998)
 23. D.S.Flynn, K.K.Sekharan, B.A.Hiller, H.Laumer, J.L.Weil, F.Gabbard, Cross sections and reaction rates for 23Na(p,n)23Mg, 27Al(p,n)27Si, 27Al(alpha,n)30P, 29Si(alpha,n)32S, 30Si(alpha,n)33S, Phys. Rev. C, vol.18, p.1566 (1978)
 24. M.Furukawa, S.Kume, M.Ogawa, Excitation functions for the formation of 7Be and 22Na in proton induced reactions on 27Al, Nucl. Phys., vol.69, p.362 (1965)
 25. M.Furukawa, K.Shizuri, K.Komura, K.Sakamoto, S.Tanaka, Production of 26-Al and 22-Na from proton bombardment of Si, Al and Mg, Nucl. Phys. A, vol.174, p.539 (1971)
 26. H.Gauvin, M.Lefort, X.Tarrago, Emission of alpha particles from the spallation reactions, Nucl. Phys., vol.39, p.447 (1962)
 27. A.Gruetter, Excitation functions for radioactive isotope produced by proton bombardment of Cu and Al in the energy range of 16 to 70 MeV, Nucl. Phys. A, vol.383, p.98 (1982)
 28. S.Harissopoulos, C.Chronidou, K.Spyrou, T.Paradellis, C.Rolfs, W.H.Schulte, H.W.Becker, The 27-Al(p,gamma)28-Si reaction: direct capture cross-section and resonance strengths at Ep=0.2-1.12 MeV, Europ. Phys. J. A, vol.9, p.479 (2000)
 29. H.R.Heydeger, A.L.Turkevich, A.Van Ginneken, P.H.Walpole, Production of Be-7, Na-22 and Mg-28 from Mg, Al and SiO(2) protons between 82 and 800 MeV, Phys. Rev. C, vol.14, p.1506 (1976)
 30. H.G.Hicks, P.C.Stevenson, W.E.Nervik, Reaction AL-27(P, 3PN)NA-24, Phys. Rev., vol.102, p.1390 (1956)
 31. N.M.Hintz, N.F.Ramsey, Excitation functions to 100 MeV, Phys. Rev., vol.88, p.19 (1952)
 32. J.J.Hogan, E.Gadioli, Production of Na-24 from Al-27 by (35-100) MeV protons, Nuovo Cimento A, vol.45, p.341 (1978)
 33. R.Holub, M.Fowler, L.Yaffe, A.Zeller, Formation of 24Na in 'fission-like' reactions, Nucl. Phys. A, vol.288, p.291 (1977)
 34. A.J.T.Jull, S.Cloudt, D.J.Donahue, J.M.Sisterson, R.C.Reedy, J.Masrik, 14C depth profiles in apollo 15 and 17 core and lunar rock 68815, Geochimica et Cosmochimica Acta, vol.62, p.3025 (1998)
 35. P.Jung, Cross sections for the production of helium and long- living radioactive isotopes by protons and deuterons, Conf.on Nucl.Data for Sci.and Technol., Juelich 1991, p.352 (1991)
 36. M.U.Khandaker, K.Kim, M.W.Lee, K.S.Kim, G.N.Kim, Excitation functions for the 27Al(p,x)22, 24Na nuclear reactions up to 40 MeV, J. Korean Phys. Soc., vol.59, p.1821 (2010)
 37. G.I.Krupnyi, D.V.Snitko, A.A.Yanovich, Cross sections of the reactions 27Al(p,spall)7Be, 27Al(p,3pn)22Na and 27Al(p,3pn)24Na in the proton energy range 37 MeV - 70 GeV, Atomnaya Energiya, vol.89, Issue 5, p.418 (2000)
 38. M.Ja.Kuznetsova, V.N.Pokrovsky, V.N.Rudakov, Investigation of the Al-27(p,p+pi+)Mg-27 reaction, Zhurnal Eksperimental'nnoi Teoret. Fiziki, vol.42, p.1451 (1962)
 39. M.S.Lafleur, N.T.Porile, L.Yaffe, Formation of 7Be in nuclear reactions induced by 85-MeV protons, Canadian Journal of Chemistry, vol.44, p.2749 (1966)
 40. M.C.Lagunas-Solar, O.F.Carvacho, R.R.Cima, Cyclotron production of PET radionuclides- F-18 (109.77 min, beta+ 96.9 per cent, EC 3.1 per cent) from high-energy protons ON metallic aluminum targets, Appl. Rad. Isot., vol.39, p.41 (1988)
 41. M.Lefort, G.N.Simonoff, X.Tarrago, A spallation nuclear reaction on thorium at 150 and 82 MeV proton energies, Nucl. Phys., vol.25, p.216 (1961)
 42. I.Leya, H.Busemann, H.Baur, R.Wieler, M.Gloris, S.Neumann, R.Michel, F.Sudrock, U.Herpers, Cross sections for the proton-induced production of He and Ne isotopes from magnesium, aluminum and silicon, Nucl. Instr. Meth. Phys. Res. B, vol.145, p.449 (1998)
 43. M.Ligonniere, B.Vassent, R.Bernas, Production cross section of beryllium-7 from Al, V, Ta and Au induced by 155 and 550 MeV protons, Comptes Rendus, vol.259, p.1406 (1964)
 44. R.H.Lindsay, E.F.Neužil, (p,Be7) reaction in Al and Mg from 27 to 31.5 MeV, Phys. Rev., vol.127, p.1269 (1962)
 45. P.B.Lyons, J.W.Toews, D.G.Sargood, Total yield measurements in Al-27(p,g)Si-28, Nucl. Phys. A, vol.130, p.1 (1969)
 46. R.E.Marrs, R.E.Pollock, Inclusive (P, pi+) cross sections

near threshold, Phys. Rev. C, vol.20, p.2446 (1979)	1325 1451 252	A1-27, Low and Medium Energy Nucl.Reactions, Moscow 1960, p.201 (1960)	1325 1451 378
47. S.Meghir, Excitation functions of some monitor reactions, : Meghir (1962)	1325 1451 253		1325 1451 379
	1325 1451 254		1325 1451 380
48. V.N.Mekhedov, Formation of tritium in C, Al and Fe under the influence of protons with Ep = 130-660 MeV, Yadernaya Fizika, vol.5, p.34 (1967)	1325 1451 255	74. V.V.Verbinski, W.R.Burrus, Direct and compound-nucleus neutrons from 14-18 MeV proton on Be-9, N-14, Al-27, Fe-56, In-115, Ta-181 and Pb-208 and from 33-MeV bremsstrahlung on Al-27, Pb-206 and Bi-209, Phys. Rev., vol.177, p.1671 (1969)	1325 1451 382
49. B.N.Mekhedov, V.N.Mekhedov, Production of tritium in Al, Sn, Pb and Bi under the influence of high energy protons, Yadernaya Fizika, vol.11, p.708 (1970)	1325 1451 256		1325 1451 383
50. R.Michel, G.Brinkmann, W.Herr, Redetermination of the excitation function for the reaction 27Al(p,3p3n)22Na, Report INDC(GER)-21, p.70 (1979)	1325 1451 257		1325 1451 384
	1325 1451 258		1325 1451 385
	1325 1451 259		1325 1451 386
	1325 1451 260		1325 1451 387
51. R.Michel, R.Bodemann, H.Busemann, R.Daunke, M.Gloris, H.-J.Lange, B.Klug, A.Krins, I.Ley, M.Luepke, S.Neumann, H.Reinhardt, M.Schnatz-Buetgen, U.Herpers, Th.Schickel, F.Sudbrock, B.Holmqvist, H.Conde, P.Malmborg, M.Suter, B.Dittrich-Hannen, P.-W.Kubik, H.-A.Sinal, D.Filges, Cross sections for the production of residual nuclides by low- and medium-energy protons from the target elements C, N, O, Mg, Al, Si, Ca, Ti, V, Mn, Fe, Co, Ni, Cu, Sr, Y, Zr, Nb, Ba and Au, Nucl. Instr. Meth. Phys. Res. B, vol.129, p.153 (1997)	1325 1451 261		1325 1451 388
	1325 1451 262		1325 1451 389
	1325 1451 263		1325 1451 390
	1325 1451 264		1325 1451 391
	1325 1451 265		1325 1451 392
	1325 1451 266		1325 1451 393
	1325 1451 267		1325 1451 394
	1325 1451 268		1325 1451 395
	1325 1451 269		1325 1451 396
	1325 1451 270		1325 1451 397
	1325 1451 271		1325 1451 398
	1325 1451 272		1325 1451 399
	1325 1451 273		1325 1451 400
	1325 1451 274		1325 1451 401
	1325 1451 275		1325 1451 402
	1325 1451 276		1325 1451 403
	1325 1451 277		1325 1451 404
	1325 1451 278		1325 1451 405
	1325 1451 279		1325 1451 406
	1325 1451 280		1325 1451 407
	1325 1451 281		1325 1451 408
	1325 1451 282		1325 1451 409
	1325 1451 283		1325 1451 410
	1325 1451 284		1325 1451 411
	1325 1451 285		1325 1451 412
	1325 1451 286		1325 1451 413
	1325 1451 287		1325 1451 414
	1325 1451 288		1325 1451 415
	1325 1451 289		1325 1451 416
54. K.Miyano, The Be-7, Na-22 and Ma-24 production cross sections with 22- to 52-MeV proton on 27Al, Journal of the Physical Society of Japan, vol.34, Issue.4, p.853 (1973)	1325 1451 290		1325 1451 417
	1325 1451 291		1325 1451 418
	1325 1451 292		1325 1451 419
	1325 1451 293		1325 1451 420
	1325 1451 294		1325 1451 421
	1325 1451 295		1325 1451 422
	1325 1451 296		1325 1451 423
	1325 1451 297		1325 1451 424
55. A.G.C.Nair, S.S.Rattan, A.Ramaswami, R.J.Singh, R.H.Iyer, Proton induced fission of 243Am at 17.8 MeV: formation cross section for the fission products, 36th Nucl. Phys. Symposium, Calicut, 1993, p.188 (1993)	1325 1451 298		1325 1451 425
	1325 1451 299		1325 1451 426
	1325 1451 300		1325 1451 427
	1325 1451 301		1325 1451 428
	1325 1451 302		1325 1451 429
	1325 1451 303		1325 1451 430
	1325 1451 304		1325 1451 431
	1325 1451 305		1325 1451 432
	1325 1451 306		1325 1451 433
	1325 1451 307		1325 1451 434
	1325 1451 308		1325 1451 435
	1325 1451 309		1325 1451 436
	1325 1451 310		1325 1451 437
	1325 1451 311		1325 1451 438
	1325 1451 312		1325 1451 439
	1325 1451 313		1325 1451 439
	1325 1451 314		1325 1451 439
	1325 1451 315		1325 1451 439
61. P.Pulver, No title, : Pulver (1979)	1325 1451 316		1325 1451 439
62. R.J.Schneider, J.M.Sisteron, A.M.Koehler, J.Klein, R.Middleton, Measurement of cross sections for Aluminium-26 and Sodium-24 induced by protons in aluminium, Nucl. Instr. Meth. Phys. Res. B, vol.29, p.271 (1987)	1325 1451 317		1325 1451 439
	1325 1451 318		1325 1451 439
	1325 1451 319		1325 1451 439
	1325 1451 320		1325 1451 439
	1325 1451 321		1325 1451 439
	1325 1451 322		1325 1451 439
	1325 1451 323		1325 1451 439
	1325 1451 324		1325 1451 439
	1325 1451 325		1325 1451 439
	1325 1451 326		1325 1451 439
	1325 1451 327		1325 1451 439
	1325 1451 328		1325 1451 439
	1325 1451 329		1325 1451 439
	1325 1451 330		1325 1451 439
	1325 1451 331		1325 1451 439
	1325 1451 332		1325 1451 439
	1325 1451 333		1325 1451 439
	1325 1451 334		1325 1451 439
	1325 1451 335		1325 1451 439
	1325 1451 336		1325 1451 439
	1325 1451 337		1325 1451 439
	1325 1451 338		1325 1451 439
	1325 1451 339		1325 1451 439
	1325 1451 340		1325 1451 439
	1325 1451 341		1325 1451 439
	1325 1451 342		1325 1451 439
	1325 1451 343		1325 1451 439
	1325 1451 344		1325 1451 439
	1325 1451 345		1325 1451 439
	1325 1451 346		1325 1451 439
	1325 1451 347		1325 1451 439
	1325 1451 348		1325 1451 439
	1325 1451 349		1325 1451 439
	1325 1451 350		1325 1451 439
	1325 1451 351		1325 1451 439
	1325 1451 352		1325 1451 439
	1325 1451 353		1325 1451 439
	1325 1451 354		1325 1451 439
	1325 1451 355		1325 1451 439
	1325 1451 356		1325 1451 439
	1325 1451 357		1325 1451 439
	1325 1451 358		1325 1451 439
	1325 1451 359		1325 1451 439
	1325 1451 360		1325 1451 439
	1325 1451 361		1325 1451 439
	1325 1451 362		1325 1451 439
	1325 1451 363		1325 1451 439
	1325 1451 364		1325 1451 439
	1325 1451 365		1325 1451 439
	1325 1451 366		1325 1451 439
	1325 1451 367		1325 1451 439
	1325 1451 368		1325 1451 439
	1325 1451 369		1325 1451 439
	1325 1451 370		1325 1451 439
	1325 1451 371		1325 1451 439
	1325 1451 372		1325 1451 439
	1325 1451 373		1325 1451 439
	1325 1451 374		1325 1451 439
	1325 1451 375		1325 1451 439
	1325 1451 376		1325 1451 439
	1325 1451 377		1325 1451 439
71. Yu.E.Titarenko, S.P.Borovlev, M.A.Butko, V.M.Zhivun, K.V.Pavlov, V.I.Rogov, A.Y.U.Titarenko, R.S.Tikhonov, S.N.Florya, A.B.Koldobskiy, Cross section of Al-27(p,x)Na-24, Al-27(p,x)Be-7 monitor reaction at proton energies 0.4-2.6 GeV, Yadernaya Fizika, vol.74, p.531 (2011)	1325 1451 378		1325 1451 439
	1325 1451 379		1325 1451 439
	1325 1451 380		1325 1451 439
	1325 1451 381		1325 1451 439
	1325 1451 382		1325 1451 439
	1325 1451 383		1325 1451 439
	1325 1451 384		1325 1451 439
	1325 1451 385		1325 1451 439
	1325 1451 386		1325 1451 439
	1325 1451 387		1325 1451 439
	1325 1451 388		1325 1451 439
	1325 1451 389		1325 1451 439
	1325 1451 390		1325 1451 439
	1325 1451 391		1325 1451 439
	1325 1451 392		1325 1451 439
	1325 1451 393		1325 1451 439
	1325 1451 394		1325 1451 439
	1325 1451 395		1325 1451 439
	1325 1451 396		1325 1451 439
	1325 1451 397		1325 1451 439
	1325 1451 398		1325 1451 439
	1325 1451 399		1325 1451 439
	1325 1451 400		1325 1451 439
	1325 1451 401		1325 1451 439
	1325 1451 402		1325 1451 439
	1325 1451 403		1325 1451 439
	1325 1451 404		1325 1451 439
	1325 1451 405		1325 1451 439
	1325 1451 406		1325 1451 439
	1325 1451 407		1325 1451 439
	1325 1451 408		1325 1451 439
	1325 1451 409		1325 1451 439
	1325 1451 410		1325 1451 439
	1325 1451 411		1325 1451 439
	1325 1451 412		1325 1451 439
	1325 1451 413		1325 1451 439
	1325 1451 414		1325 1451 439
	1325 1451 415		1325 1451 439
	1325 1451 416		1325 1451 439
	1325 1451 417		1325 1451 439
	1325 1451 418		1325 1451 439
	1325 1451 419		1325 1451 439
	1325 1451 420		1325 1451 439
	1325 1451 421		1325 1451 439
	1325 1451 422		1325 1451 439
	1325 1451 423		1325 1451 439
	1325 1451 424		1325 1451 439
	1325 1451 425		1325 1451 439
	1325 1451 426		1325 1451 439
	1325 1451 427		1325 1451 439
	1325 1451 428		1325 1451 439
	1325 1451 429		1325 1451 439
	1325 1451 430		1325 1451 439
	1325 1451 431		1325 1451 439
	1325 1451 432		1325 1451 439
	1325 1451 433		1325 1451 439
	1325 1451 434		1325 1451 439
	1325 1451 435		1325 1451 439
	1325 1451 436		1325 1451 439
	1325 1451 437		1325 1451 439
	1325 1451 438		1325 1451 439
	1325 1451 439		1325 1451 439
	1325 1451 440		1325 1451 439
	1325 1451 441		1325 1451 439
	1325 1451 442		1325 1451 439
	1325 1451 443		1325 1451 439
	1325 1451 444		1325 1451 439
	1325 1451 445		1325 1451 439
	1325 1451 446		1325 1451 439
	1325 1451 447		1325 1451 439
	1325 1451 448		1325 1451 439
	1325 1451 449		1325 1451 439
	1325 1451 450		1325 1451 439
	1325 1451 451		1325 1451 439
	1325 1451 452		1325 1451 439
	1325 1451 453		1325 1451 439
	1325 1451 454		1325 1451 439
	1325 1451 455		1325 1451 439
	1325 1451 456		1325 1451 439

8.010000+3	0.000000+0	10	0	0	01325	8	5	63	6.340000+6	1.220000-2	6.350000+6	1.110000-2	6.360000+6	1.180000-2	2132510	5	39
8.011000+3	0.000000+0	10	0	0	01325	8	5	64	6.410000+6	1.170000-2	6.430000+6	1.230000-2	6.440000+6	1.220000-2	2132510	5	40
8.012000+3	0.000000+0	10	0	0	01325	8	5	65	6.450000+6	1.280000-2	6.460000+6	1.420000-2	6.470000+6	1.660000-2	2132510	5	41
8.013000+3	0.000000+0	10	0	0	01325	8	5	66	6.480000+6	1.840000-2	6.490000+6	2.340000-2	6.500000+6	2.170000-2	2132510	5	42
8.014000+6	0.000000+0	10	0	0	01325	8	5	67	6.510000+6	2.120000-2	6.520000+6	2.330000-2	6.530000+6	2.680000-2	2132510	5	43
8.015000+6	0.000000+0	10	0	0	01325	8	5	68	6.540000+6	3.160000-2	6.560000+6	3.550000-2	6.560000+6	3.690000-2	2132510	5	44
8.016000+6	0.000000+0	10	0	0	01325	8	5	69	6.570000+6	3.750000-2	6.580000+6	3.650000-2	6.600000+6	3.450000-2	2132510	5	45
8.017000+3	0.000000+0	10	0	0	01325	8	5	70	6.610000+6	2.990000-2	6.610000+6	2.500000-2	6.620000+6	2.280000-2	2132510	5	46
8.018000+3	0.000000+0	10	0	0	01325	8	5	71	6.640000+6	2.250000-2	6.650000+6	2.440000-2	6.660000+6	2.500000-2	2132510	5	47
8.019000+3	0.000000+0	10	0	0	01325	8	5	72	6.670000+6	2.580000-2	6.690000+6	2.360000-2	6.690000+6	2.180000-2	2132510	5	48
8.020000+3	0.000000+0	10	0	0	01325	8	5	73	6.700000+6	1.950000-2	6.710000+6	1.820000-2	6.730000+6	1.820000-2	2132510	5	49
8.021000+3	0.000000+0	10	0	0	01325	8	5	74	6.740000+6	1.860000-2	6.750000+6	1.870000-2	6.760000+6	1.910000-2	2132510	5	50
8.022000+3	0.000000+0	10	0	0	01325	8	5	75	6.780000+6	1.940000-2	6.800000+6	2.010000-2	6.800000+6	2.350000-2	2132510	5	51
9.011000+3	0.000000+0	10	0	0	01325	8	5	76	6.820000+6	2.430000-2	6.830000+6	2.580000-2	6.840000+6	2.710000-2	2132510	5	52
9.012000+3	0.000000+0	10	0	0	01325	8	5	77	6.840001+6	3.100000-2	6.860000+6	3.320000-2	6.880000+6	3.290000-2	2132510	5	53
9.013000+3	0.000000+0	10	0	0	01325	8	5	78	6.890000+6	3.450000-2	6.900000+6	3.470000-2	6.910000+6	3.640000-2	2132510	5	54
9.014000+3	0.000000+0	10	0	0	01325	8	5	79	6.920000+6	3.450000-2	6.930000+6	3.050000-2	6.930000+6	3.020000-2	2132510	5	55
9.015000+6	0.000000+0	10	0	0	01325	8	5	80	6.950000+6	3.310000-2	6.960000+6	2.970000-2	6.970000+6	2.390000-2	2132510	5	56
9.016000+6	0.000000+0	10	0	0	01325	8	5	81	6.970001+6	2.100000-2	6.980000+6	1.970000-2	7.000000+6	1.920000-2	2132510	5	57
9.017000+6	0.000000+0	10	0	0	01325	8	5	82	7.000001+6	2.010000-2	7.010000+6	1.670000-2	7.010000+6	2.170000-2	2132510	5	58
9.018000+3	0.000000+0	10	0	0	01325	8	5	83	7.020000+6	1.550000-2	7.030000+6	2.250000-2	7.030000+6	2.690000-2	2132510	5	59
9.019000+3	0.000000+0	10	0	0	01325	8	5	84	7.050000+6	1.290000-2	7.050000+6	1.160000-2	7.050000+6	2.910000-2	2132510	5	60
9.020000+3	0.000000+0	10	0	0	01325	8	5	85	7.060000+6	3.460000-2	7.070000+6	1.190000-2	7.070000+6	3.780000-2	2132510	5	61
9.021000+3	0.000000+0	10	0	0	01325	8	5	86	7.080000+6	2.040000-2	7.080000+6	3.530000-2	7.090000+6	1.900000-2	2132510	5	62
9.022000+3	0.000000+0	10	0	0	01325	8	5	87	7.090001+6	3.380000-2	7.090000+6	3.230000-2	7.110000+6	1.010000-2	2132510	5	63
9.023000+3	0.000000+0	10	0	0	01325	8	5	88	7.110001+6	3.170000-2	7.120000+6	3.110000-2	7.130000+6	9.000000-3	2132510	5	64
1.001200+4	0.000000+0	10	0	0	01325	8	5	89	7.130001+6	3.130000-2	7.140000+6	1.100000-2	7.140000+6	3.270000-2	2132510	5	65
1.001300+4	0.000000+0	10	0	0	01325	8	5	90	7.150000+6	1.260000-2	7.150000+6	3.420000-2	7.160000+6	3.360000-2	2132510	5	66
1.001400+4	0.000000+0	10	0	0	01325	8	5	91	7.170000+6	9.400000-3	7.170000+6	3.200000-2	7.180000+6	2.920000-2	2132510	5	67
1.001500+4	0.000000+0	10	0	0	01325	8	5	92	7.190000+6	1.370000-2	7.190000+6	2.890000-2	7.200000+6	2.850000-2	2132510	5	68
1.001600+4	0.000000+0	10	0	0	01325	8	5	93	7.210000+6	1.450000-2	7.210000+6	2.730000-2	7.220000+6	2.200000-2	2132510	5	69
1.001700+4	0.000000+0	10	0	0	01325	8	5	94	7.220001+6	2.710000-2	7.230000+6	2.770000-2	7.230000+6	2.760000-2	2132510	5	70
1.001800+4	0.000000+0	10	0	0	01325	8	5	95	7.240000+6	2.810000-2	7.240000+6	2.710000-2	7.240000+6	2.520000-2	2132510	5	71
1.001900+4	0.000000+0	10	0	0	01325	8	5	96	7.260000+6	2.090000-2	7.260000+6	2.630000-2	7.270000+6	1.580000-2	2132510	5	72
1.002000+4	0.000000+0	10	0	0	01325	8	5	97	7.270001+6	2.850000-2	7.270000+6	3.040000-2	7.280000+6	1.400000-2	2132510	5	73
1.002100+4	0.000000+0	10	0	0	01325	8	5	98	7.290000+6	2.920000-2	7.300000+6	1.600000-2	7.300000+6	2.850000-2	2132510	5	74
1.002200+4	0.000000+0	10	0	0	01325	8	5	99	7.310000+6	2.130000-2	7.320000+6	2.960000-2	7.330000+6	2.270000-2	2132510	5	75
1.002300+4	0.000000+0	10	0	0	01325	8	5	100	7.330001+6	3.070000-2	7.340000+6	2.800000-2	7.340000+6	3.250000-2	2132510	5	76
1.002400+4	0.000000+0	10	0	0	01325	8	5	101	7.350000+6	3.220000-2	7.360000+6	3.020000-2	7.370000+6	2.530000-2	2132510	5	77
1.011300+4	0.000000+0	10	0	0	01325	8	5	102	7.380000+6	1.750000-2	7.390000+6	1.560000-2	7.390000+6	2.920000-2	2132510	5	78
1.011400+4	0.000000+0	10	0	0	01325	8	5	103	7.390002+6	2.970000-2	7.400000+6	2.900000-2	7.410000+6	1.820000-2	2132510	5	79
1.011500+4	0.000000+0	10	0	0	01325	8	5	104	7.410001+6	2.870000-2	7.420000+6	2.960000-2	7.430000+6	1.930000-2	2132510	5	80
1.011600+4	0.000000+0	10	0	0	01325	8	5	105	7.430001+6	2.350000-2	7.430002+6	2.760000-2	7.440000+6	2.590000-2	2132510	5	81
1.011700+4	0.000000+0	10	0	0	01325	8	5	106	7.450000+6	2.670000-2	7.460000+6	2.640000-2	7.460000+6	2.130000-2	2132510	5	82
1.011800+4	0.000000+0	10	0	0	01325	8	5	107	7.470000+6	2.390000-2	7.470000+6	3.380000-2	7.480000+6	3.450000-2	2132510	5	83
1.011900+4	0.000000+0	10	0	0	01325	8	5	108	7.490000+6	3.000000-2	7.490000+6	3.560000-2	7.500000+6	3.300000-2	2132510	5	84
1.012000+4	0.000000+0	10	0	0	01325	8	5	109	7.500001+6	3.560000-2	7.510000+6	3.500000-2	7.520000+6	3.620000-2	2132510	5	85
1.012100+4	0.000000+0	10	0	0	01325	8	5	110	7.520001+6	3.380000-2	7.530000+6	3.630000-2	7.530000+6	3.270000-2	2132510	5	86
1.012200+4	0.000000+0	10	0	0	01325	8	5	111	7.550000+6	2.520000-2	7.550000+6	3.240000-2	7.550000+6	3.270000-2	2132510	5	87
1.012300+4	0.000000+0	10	0	0	01325	8	5	112	7.560000+6	3.570000-2	7.570000+6	2.040000-2	7.570000+6	2.250000-2	2132510	5	88
1.012400+4	0.000000+0	10	0	0	01325	8	5	113	7.580000+6	3.830000-2	7.590000+6	2.400000-2	7.590000+6	2.850000-2	2132510	5	89
1.012500+4	0.000000+0	10	0	0	01325	8	5	114	7.600000+6	1.390000-2	7.600000+6	4.050000-2	7.610000+6	9.300000-2	2132510	5	90
1.012600+4	0.000000+0	10	0	0	01325	8	5	115	7.610000+6	8.100000-2	7.630000+6	3.980000-2	7.630000+6	3.910000-2	2132510	5	91
1.012700+4	0.000000+0	10	0	0	01325	8	5	116	7.640000+6	4.510000-2	7.650000+6	4.020000-2	7.660000+6	4.150000-2	2132510	5	92
1.012800+4	0.000000+0	10	0	0	01325	8	5	117	7.700001+6	4.240000-							

7.600000+6	4.017833-1	7.800000+6	4.140317-1	8.000000+6	4.2501555-1132510	5	165
8.500000+6	4.573382-1	9.000000+6	4.684278-1	9.500000+6	4.803193-1132510	5	166
1.000000+7	4.940772-1	1.000000+7	5.055990-1	1.100000+7	5.105060-1132510	5	167
1.150000+7	5.107999-1	1.200000+7	5.170504-1	1.250000+7	5.355073-1132510	5	168
1.300000+7	5.559803-1	1.350000+7	5.807757-1	1.400000+7	6.070973-1132510	5	169
1.450000+7	6.366091-1	1.500000+7	6.686640-1	1.600000+7	7.244595-1132510	5	170
1.700000+7	7.599335-1	1.800000+7	7.806723-1	1.900000+7	7.872349-1132510	5	171
2.000000+7	7.877917-1	2.100000+7	7.883484-2	2.200000+7	7.889052-1132510	5	172
2.300000+7	7.937234-1	2.400000+7	7.970539-1	2.500000+7	7.981201-1132510	5	173
2.600000+7	7.986795-1	2.700000+7	8.007307-1	2.800000+7	8.047427-1132510	5	174
2.900000+7	7.085918-1	3.000000+7	8.128077-1	3.100000+7	8.164925-1132510	5	175
3.200000+7	8.188753-1	3.300000+7	8.212924-1	3.400000+7	8.243263-1132510	5	176
3.500000+7	8.241111-1	3.600000+7	8.245394-1	3.700000+7	8.236678-1132510	5	177
3.800000+7	8.214445-1	3.900000+7	8.189222-1	4.000000+7	8.184733-1132510	5	178
4.100000+7	8.161904-1	4.200000+7	8.143708-1	4.300000+7	8.116985-1132510	5	179
4.400000+7	8.098994-1	4.500000+7	8.089757-1	4.600000+7	8.072786-1132510	5	180
4.700000+7	8.068567-1	4.800000+7	8.053380-1	4.900000+7	8.049712-1132510	5	181
5.000000+7	8.032615-1	5.100000+7	8.014707-1	5.200000+7	8.013844-1132510	5	182
5.300000+7	7.999222-1	5.400000+7	7.992100-1	5.500000+7	7.986225-1132510	5	183
5.600000+7	7.987711-1	5.700000+7	7.967960-1	5.800000+7	7.962394-1132510	5	184
5.900000+7	7.945578-1	6.000000+7	7.937675-1	6.100000+7	7.930309-1132510	5	185
6.200000+7	7.916632-1	6.400000+7	7.906519-1	6.500000+7	7.905619-1132510	5	186
6.500000+7	7.891598-1	6.600000+7	7.879550-1	6.700000+7	7.866538-1132510	5	187
6.800000+7	7.861111-1	6.900000+7	7.860016-1	7.000000+7	7.848111-1132510	5	188
7.200000+7	7.831758-1	7.400000+7	7.822968-1	7.500000+7	7.814928-1132510	5	189
7.600000+7	7.807501-1	7.800000+7	7.790818-1	8.000000+7	7.779815-1132510	5	190
8.200000+7	7.766271-1	8.400000+7	7.763364-1	8.500000+7	7.767020-1132510	5	191
8.600000+7	7.757590-1	8.800000+7	7.774969-1	9.000000+7	7.769726-1132510	5	192
9.500000+7	7.759757-1	1.000000+8	7.780643-1	1.050000+8	7.801548-1132510	5	193
1.100000+8	7.808321-1	1.200000+8	7.852371-1	1.250000+8	7.889412-1132510	5	194
1.300000+8	7.929893-1	1.400000+8	7.995762-1	1.500000+8	8.046489-1132510	5	195
1.600000+8	8.138255-1	1.700000+8	8.253112-1	1.750000+8	8.297640-1132510	5	196
1.800000+8	8.343302-1	1.900000+8	8.440496-1	2.000000+8	8.527379-1132510	5	197
-1.083347+1	-1.083347-1	1002	0	1	92132510	5	198
92	2				132510	5	199
1.123813-7	0.000000+0	1.147496-7	0.000000+0	1.150000+7	3.940305-8132510	5	200
1.200000+7	2.236386-5	1.250000+7	1.419847-4	1.300000+7	1.138892-3132510	5	201
1.350000+7	4.023154-3	1.400000+7	4.608080-3	1.450000+7	5.651086-3132510	5	202
1.500000+7	8.417246-3	1.600000+7	1.243774-2	1.700000+7	1.644396-2132510	5	203
1.800000+7	9.984245-2	1.900000+7	2.357190-2	2.000000+7	2.679308-2132510	5	204
2.100000+7	3.027850-2	2.200000+7	3.365642-2	2.300000+7	3.671832-2132510	5	205
2.400000+7	4.036530-2	2.500000+7	4.327202-2	2.600000+7	4.731944-2132510	5	206
2.700000+7	5.011070-2	2.800000+7	5.244111-2	2.900000+7	5.469209-2132510	5	207
3.000000+7	6.523224-2	3.100000+7	5.781501-2	3.200000+7	5.977298-2132510	5	208
3.300000+7	6.159001-2	3.400000+7	6.302200-2	3.500000+7	6.443231-2132510	5	209
3.600000+7	6.568862-2	3.700000+7	6.689328-3	3.800000+7	6.836681-2132510	5	210
3.900000+7	7.022978-2	4.000000+7	7.193984-2	4.100000+7	7.338378-2132510	5	211
4.200000+7	7.455127-2	4.300000+7	7.587738-3	4.400000+7	7.706059-2132510	5	212
4.500000+7	7.832415-2	4.600000+7	7.916695-2	4.700000+7	7.949919-2132510	5	213
4.800000+7	8.014537-2	4.900000+7	8.096874-2	5.000000+7	8.169084-2132510	5	214
5.100000+7	8.170288-2	5.200000+7	8.166770-2	5.300000+7	8.144507-2132510	5	215
5.400000+7	8.215359-2	5.500000+7	8.111408-2	5.600000+7	8.136461-2132510	5	216
5.700000+7	8.212131-2	5.800000+7	8.231653-2	5.900000+7	8.306743-2132510	5	217
6.000000+7	8.317553-2	6.100000+7	8.377173-2	6.200000+7	8.378224-2132510	5	218
6.300000+7	8.459713-2	6.400000+7	8.475553-2	6.500000+7	8.545366-2132510	5	219
6.600000+7	8.584143-2	6.700000+7	8.651085-2	6.800000+7	8.706165-2132510	5	220
6.900000+7	8.791126-2	7.000000+7	8.846153-2	7.200000+7	8.983884-2132510	5	221
7.400000+7	9.123181-2	7.500000+7	9.187243-2	7.600000+7	9.250500-2132510	5	222
7.800000+7	9.370734-2	8.000000+7	9.509224-2	8.200000+7	9.603486-2132510	5	223
8.400000+7	9.704731-2	8.500000+7	9.752892-2	8.600000+7	9.799853-2132510	5	224
8.800000+7	9.956856-2	9.000000+7	1.012068-1	9.500000+7	1.050000+8132510	5	225
1.000000+8	1.026102-1	1.050000+8	1.038515-1	1.100000+8	1.048048-1132510	5	226
1.200000+8	1.077268-1	1.250000+8	1.103834-1	1.300000+8	1.110355-1132510	5	227
1.400000+8	1.146029-1	1.500000+8	1.181697-1	1.600000+8	1.229033-1132510	5	228
1.700000+8	1.281190-1	1.750000+8	1.306141-1	1.800000+8	1.330949-1132510	5	229
1.900000+8	1.386796-1	2.000000+8	1.438923-1	2.100000+8	1.520501-1132510	5	230
-1.594173+1	-1.594173-1	1003	0	1	82132510	5	231
82	2				132510	5	232
1.653719+7	0.000000+0	1.700000+7	5.887386-7	1.800000+7	1.227945-5132510	5	233
1.900000+7	8.771215-2	2.000000+7	2.143831-2	2.100000+7	3.591286-4132510	5	234
2.200000+7	4.681891-2	3.000000+7	5.195797-2	2.400000+7	3.739487-4132510	5	235
2.500000+7	9.196988-3	2.600000+7	1.196988-3	2.700000+7	1.521960-3132510	5	236
2.800000+7	1.847803-2	3.000000+7	2.266839-3	3.000000+7	2.616214-3132510	5	237
3.100000+7	2.874633-3	3.000000+7	3.363540-3	3.300000+7	3.680902-3132510	5	238
3.400000+7	4.015393-4	3.500000+7	4.316045-3	3.600000+7	4.587313-3132510	5	239
3.700000+7	5.887353-3	4.000000+7	5.285797-3	3.900000+7	5.560860-3132510	5	240
4.000000+7	6.136591-3	4.400000+7	6.874412-3	4.500000+7	7.133945-3132510	5	242
4.600000+7	7.278910-2	4.700000+7	7.422345-3	5.000000+7	7.612430-3132510	5	243
4.900000+7	7.550751-3	5.000000+7	7.680916-3	5.100000+7	7.696554-3132510	5	244
5.200000+7	7.724499-3	5.300000+7	7.725997-3	5.400000+7	7.750701-3132510	5	245
5.500000+7	7.776853-3	5.600000+7	7.859453-7	5.700000+7	7.946494-3132510	5	246
5.800000+7	8.028053-3	5.900000+7	8.118010-3	6.000000+7	8.188992-3132510	5	247
6.100000+8	8.302507-3	6.200000+7	8.433539-3	6.300000+7	8.514952-3132510	5	248
6.400000+8	8.630407-3	6.500000+7	8.700116-3	6.600000+7	8.701214-3132510	5	249
6.700000+8	8.804667-3	6.800000+7	8.887853-3	6.900000+7	8.984933-3132510	5	250
7.000000+8	9.081472-3	7.000000+7	9.301434-7	7.400000+7	9.522727-3132510	5	251
7.500000+8	9.646511-3	7.600000+7	9.759869-3	7.800000+7	9.936979-3132510	5	252
8.000000+8	1.015041-2	8.000000+7	1.038096-4	8.000000+7	1.061249-3132510	5	253
8.500000+8	1.073329-2	8.600000+7	1.085678-2	8.800000+7	1.114655-3132510	5	254
9.000000+8	1.143884-2	9.500000+7	1.205201-2	1.000000+8	1.278145-3132510	5	255
1.050000+8	1.38103-2	1.100000+8	1.394350-2	1.200000+8	1.522497-2132510	5	256
1.250000+8	1.588051-2	1.300000+8	1.650609-2	1.400000+8	1.781255-2132510	5	257
1.500000+8	1.913488-2	1.600000+8	2.061340-2	1.700000+8	2.224132-2132510	5	258
1.750000+8	2.300519-2	1.800000+8	2.377365-2	1.900000+8	2.541803-2132510	5	259
2.000000+8	2.700262-2	2.400000+7	1.102042-2	1.700000+8	1.110242-2132510	5	260
-1.164633+1	-1.164633-1	2003	0	1	89132510	5	261
89	2				132510	5	262
1.208135+7	0.000000+0	1.250000+7	7.242442-7	1.300000+			

0.000000+ 8	4.374700-3		132510	5	417
-2.263013+1	-2.263013+1	3007	0	1	75152510 5 418
75	2		132510	5	419
2.347542+7	0.000000+0	2.400000+7	1.861100-9	2.500000+7	6.559330-9132510 5 420
2.600000+7	3.147530-8	2.700000+7	1.206430-7	2.800000+7	3.537330-7132510 5 421
2.900000+7	1.028930-6	3.000000+7	1.918830-6	3.100000+7	4.024000-6132510 5 422
3.200000+7	7.433670-6	3.300000+7	1.101330-5	3.400000+7	1.551170-5132510 5 423
3.500000+7	2.203070-5	3.600000+7	2.715830-5	3.700000+7	3.392860-5132510 5 424
3.800000+7	4.126780-5	3.900000+7	4.685870-5	4.000000+7	5.517500-5132510 5 425
4.100000+7	6.450530-5	4.200000+7	7.205030-5	4.300000+7	8.274600-5132510 5 426
4.400000+7	9.303630-5	4.500000+7	1.029200-4	4.600000+7	1.142400-4132510 5 427
4.700000+7	1.162500-4	4.800000+7	1.260900-4	4.900000+7	1.361900-4132510 5 428
5.000000+7	1.485400-4	5.100000+7	1.580800-4	5.200000+7	1.691300-4132510 5 429
5.300000+7	1.775800-4	5.400000+7	1.872800-4	5.500000+7	1.972000-4132510 5 430
5.600000+7	2.096000+4	5.700000+7	2.237900-4	5.800000+7	2.357600-4132510 5 431
5.900000+7	2.496000-4	6.000000+7	2.590500-4	6.100000+7	2.705300-4132510 5 432
6.200000+7	2.819700-4	6.300000+7	2.947400-4	6.400000+7	3.033900-4132510 5 433
6.500000+7	3.171900-4	6.600000+7	3.151100-4	6.700000+7	3.242000-4132510 5 434
6.800000+7	3.375900-4	6.900000+7	3.499400-4	7.000000+7	3.605000-4132510 5 435
7.200000+7	3.906800-4	7.400000+7	4.181000-4	7.500000+7	4.290400-4132510 5 436
7.600000+7	4.388600-4	7.800000+7	4.500300-4	8.000000+7	4.724000-4132510 5 437
8.000000+7	4.973300-4	8.400000+7	5.227200-4	8.500000+7	5.386800-4132510 5 438
8.600000+7	5.541600-4	8.800000+7	5.757100-4	9.000000+7	5.955700-4132510 5 439
9.500000+7	6.335000-4	1.000000+8	6.957000-4	1.050000+8	7.478300-4132510 5 440
1.100000+8	7.857300-4	1.200000+8	8.730400-4	1.250000+8	9.156300-4132510 5 441
1.300000+8	9.553600-4	1.400000+8	1.015300-3	1.500000+8	1.062600-3132510 5 442
1.600000+8	1.150700-3	1.700000+8	1.266300-3	1.750000+8	1.305400-3132510 5 443
1.800000+8	1.347100-3	1.900000+8	1.452100-3	2.000000+8	1.530300-3132510 5 444
-3.770419+1	-3.770419+1	3008	0	1	59132510 5 445
59	2		132510	5	446
3.911253+7	0.000000+0	4.000000+7	4.912670-9	4.100000+7	1.421330-8132510 5 447
4.200000+7	2.925130-8	4.300000+7	4.380670-8	4.400000+7	6.311670-8132510 5 448
4.500000+7	8.490670-8	4.600000+7	1.046470-7	4.700000+7	2.166370-7132510 5 449
4.800000+7	3.311870-7	4.900000+7	4.532800-7	5.000000+7	6.110000-7132510 5 450
5.100000+7	8.128470-7	5.200000+7	1.019230-6	5.300000+7	1.235910-6132510 5 451
5.400000+7	1.435620-6	5.500000+7	1.660300-6	5.600000+7	1.923190-6132510 5 452
5.700000+7	2.232020-6	5.800000+7	2.519280-6	5.900000+7	2.823210-6132510 5 453
6.000000+7	3.114870-6	6.100000+7	3.369260-6	6.200000+7	3.647720-6132510 5 454
6.300000+7	3.926850-6	6.400000+7	4.219370-6	6.500000+7	4.551220-6132510 5 455
6.600000+7	4.605150-6	6.700000+7	5.053030-6	6.800000+7	5.587240-6132510 5 456
6.900000+7	6.130450-6	7.000000+7	6.613670-6	7.200000+7	8.095400-6132510 5 457
7.400000+7	9.453470-6	7.500000+7	1.013420-5	7.600000+7	1.073020-5132510 5 458
7.800000+7	1.168030-5	8.000000+7	1.298630-5	8.200000+7	1.486800-5132510 5 459
8.400000+7	1.670230-5	8.500000+7	1.798350-5	8.600000+7	1.900310-5132510 5 460
8.800000+7	2.016840-5	9.000000+7	2.171470-5	9.500000+7	2.641430-5132510 5 461
1.000000+8	3.282320-5	1.050000+8	3.928800-5	1.100000+8	4.446370-5132510 5 462
1.200000+8	5.534560-5	1.250000+8	6.067000-5	1.300000+8	6.721200-5132510 5 463
1.400000+8	7.915600-5	1.500000+8	8.963670-5	1.600000+8	1.041500-4132510 5 464
1.700000+8	1.225800-4	1.750000+8	1.294000-4	1.800000+8	1.369900-4132510 5 465
1.900000+8	1.560000-4	2.000000+8	1.734200-4		132510 5 466
-4.779180+1	-4.779180+1	3009	0	1	50132510 5 467
50	2		132510	5	468
4.832564+7	0.000000+0	4.900000+7	5.000000+7	5.100000+7	5.200000+7132510 5 469
5.100000+7	6.813670-13	5.200000+7	7.280000-12	5.300000+7	9.66133-12132510 5 470
5.400000+7	7.306657-11	5.500000+7	8.526657-11	5.600000+7	1.92180-1132510 5 471
5.700000+7	7.182670-10	5.800000+7	8.182670-10	5.900000+7	5.322000-10 5 472
6.000000+7	7.221660-9	6.000000+7	7.199230-9	6.200000+7	6.200000+7 5 473
6.300000+7	7.406770-8	6.400000+7	7.540677-8	6.600000+7	7.540677-8 5 474
6.600000+7	7.812870-7	6.800000+7	7.912870-7	6.900000+7	7.912870-7 5 475
6.900000+7	8.177910-7	7.000000+7	8.277910-7	7.100000+7	8.277910-7 5 476
7.200000+7	8.535619-6	7.500000+7	8.635619-6	7.600000+7	8.635619-6 5 477
7.500000+7	8.897139-6	7.000000+8	8.989713-6	7.100000+8	8.989713-6 5 478
7.800000+7	9.255619-6	7.500000+8	9.355619-6	7.600000+8	9.355619-6 5 479
8.100000+7	9.621660-6	8.000000+8	9.721660-6	8.100000+8	9.721660-6 5 480
8.400000+7	9.987139-6	7.200000+8	1.0087139-6	7.300000+8	1.0087139-6 5 481
8.700000+7	1.045620-6	1.100000+8	1.140920-6	1.200000+8	2.005330-6132510 5 482
9.000000+7	1.254060-6	1.300000+8	1.374170-6	1.400000+8	4.880455-6132510 5 483
9.300000+7	1.453460-6	1.500000+8	1.534930-6	1.600000+8	5.359300-6132510 5 484
9.600000+7	1.653450-6	1.600000+8	1.726670-7	1.700000+8	7.320000-6132510 5 485
9.900000+7	1.851874-7	9.500000+7	1.628657-7	1.000000+8	8.694493-7132510 5 486
1.050000+8	1.161365-6	1.100000+8	1.440920-6	1.200000+8	2.005333-6132510 5 487
1.250000+8	2.340670-6	1.300000+8	2.714780-6	1.400000+8	3.536530-6132510 5 488
1.500000+8	4.143543-6	1.500000+8	5.000000+6	5.359300-6132510 5 489	
1.700000+8	6.363142-6	1.750000+8	7.007036-6	1.800000+8	6.721200-6132510 5 490
1.900000+8	8.987139-6	2.000000+8	1.056000-5		132510 5 491
-8.535619+1	-8.535619+1	3011	0	1	15132510 5 492
15	2		132510	5	493
8.854454+7	0.000000+0	9.000000+7	2.0330-18	9.500000+7	5.04590-15132510 5 498
1.000000+8	8.697500-13	1.050000+8	8.69180-12	1.100000+8	2.99500-11132510 5 499
1.200000+8	1.08090-10	1.300000+8	5.84670-10	1.400000+8	1.237400-9132510 5 500
1.500000+8	2.142000-9	1.600000+8	3.323500-9	1.700000+8	5.481900-9132510 5 501
1.800000+8	7.048800-9	1.900000+8	9.353400-9	2.000000+8	1.213600-8132510 5 502
-1.067592+1	-1.067592+1	3012	0	1	10132510 5 503
10	2		132510	5	504
1.107469+8	0.000000+0	1.200000+8	1.89740-21	1.300000+8	1.80630-16132510 5 505
1.400000+8	1.510500-14	1.500000+8	1.22480-13	1.600000+8	4.70290-13132510 5 506
1.700000+8	1.76260-12	1.800000+8	3.32130-12	1.900000+8	6.66250-12132510 5 507
2.000000+8	1.82010-11	2.000000+8	1.32130-12	1.900000+8	6.66250-12132510 5 508
-1.994511+1	-1.994511+1	4007	0	1	84132510 5 509
84	2		132510	5	500
2.069011+7	0.000000+0	2.100000+7	3.143107-8	2.200000+7	2.256458-7132510 5 501
2.300000+7	9.992161-7	2.400000+7	3.427586-6	2.500000+7	7.741454-6132510 5 502
2.600000+7	1.215961-5	2.700000+7	3.639965-5	2.800000+7	2.196884-5132510 5 503
2.900000+7	2.827909-5	3.000000+7	3.567051-5	3.100000+7	4.925247-5132510 5 504
3.200000+7	6.745338-5	3.300000+7	8.121695-5	3.400000+7	9.545000-5132510 5 505
3.500000+7	1.170510-4	3.000000+7	1.902697-4	4.000000+7	2.091665-4132510 5 506
3.800000+7	1.650414-4	3.000000+7	2.092674-4	4.000000+7	2.454525-4132510 5 507
4.100000+7	2.172471-4	4.200000+7	2.272379-4	4.300000+7	4.550000+7132510 5 508
4.400000+7	2.653789-4	4.500000+7	2.834152-4	4.600000+7	3.028175-4132510 5 509
4.700000+7	2.312393-7	4.800000+7	3.377084-7	4.900000+7	3.550247-4132510 5 510
5.000000+7	3.738089-4	5.100000+7	3.886292-4	5.200000+7	4.031748-4132510 5 511
5.300000+7	4.182648-4	5.400000+7	4.327613-4	5.500000+7	4.477603-4132510 5 512
5.600000+7	4.629824-4	5.700000+7	4.787220-4	5.800000+7	4.951030-4132510 5 513
5.900000+7	5.120452-4	6.000000+7	5.281110-4	6.100000+7	5.446809-4132510 5 514
6.200000+7	5.518136-4	6.300000+7	5.720210-4	6.400000+7	5.832321-4132510 5 515
6.500000+7	5.946446-4	6.600000+7	6.049644-4	6.700000+7	6.154635-4132510 5 516
6.800000+7	6.238491-4	6.900000+7	6.373922-4	7.000000+7	6.700000+7132510 5 517
7.200000+7	6.456872-4	7.400000+7	6.555071-4	7.500000+7	6.603242-4132510 5 518
7.600000+7	6.736174-4	7.800000+7	6.828678-4	8.000000+7	7.012380-4132510 5 519
8.200000+7	7.216188-4	8.400000+7	7.426799-4	8.500000+7	7.531767-4132510 5 520
8.600000+7	7.619873-4	8.800000+7	7.889090-4	9.000000+7	7.946151-4132510 5 521
9.200000+7	8.098965-4	9.400000+7	8.253635-4	9.500000+7	8.332401-4132510 5 522
9.600000+7	8.410983-4	9.000000+8	8.721176-4	1.050000+8	9.090199-4132510 5 523
1.100000+8	9.444236-4	1.150000+8	9.744586-4	1.200000+8	1.004263-5132510 5 524
1.250000+8	1.035904-3	1.300000+8	1.072118-3	1.350000+8	1.122226-3132510 5 525
1.400000+8	1.152529-3	1.450000+8	1.187622-3	1.500000+8	1.214361-3132510 5 526
1.600000+8	1.252531-3	1.700000+8	1.286586-3	1.750000+8	1.305259-3132510 5 527
1.800000+8	1.305082-3	1.900000+8	1.393652-3	2.000000+8	1.406353-3132510 5 528
-2.300839+1	-2.300839+1	4009	0	1	75132510 5 529
75	2		132510	5	530
2.386781+7	0.000000+0	2.400000+7	1.43717-12	2.500000+7	3.48533-11132510 5 531
2.600000+7	2.861513-0	2.700000+7	1.819180-9	2.800000+7</	

3.900000+7	3.992300-5	4.000000+7	4.731500-5	4.100000+7	5.274363-5132510	5	669
4.200000+7	5.817275-7	4.300000+7	6.360937-5	4.400000+7	6.905496-5132510	5	670
4.500000+7	7.450054-5	4.600000+7	7.994612-5	4.700000+7	8.539171-5132510	5	671
4.800000+7	9.165022-5	4.900000+7	9.872166-5	5.000000+7	1.057931-4132510	5	672
5.100000+7	1.128646-4	5.200000+7	1.199360-6	5.300000+7	1.276504-4132510	5	673
5.400000+7	1.360077-4	5.500000+7	1.443650-4	5.600000+7	1.527223-4132510	5	674
5.700000+7	1.610797-4	5.800000+7	1.694749-4	5.900000+7	1.779080-4132510	5	675
6.000000+7	1.863410-4	6.100000+7	1.947741-4	6.200000+7	2.032072-4132510	5	676
6.300000+7	2.109224-4	6.400000+7	2.179197-4	6.500000+7	2.249171-4132510	5	677
6.600000+7	2.319144-4	6.700000+7	2.38917-4	6.800000+7	2.468373-4132510	5	678
6.900000+7	2.556911-4	7.000000+7	2.645450-4	7.200000+7	2.822527-4132510	5	679
7.400000+7	2.992244-4	7.600000+7	3.161961-4	7.800000+7	3.315817-4132510	5	680
8.000000+7	3.496923-4	8.800000+7	4.159829-4	9.000000+7	4.281741-4132510	5	681
9.500000+7	4.597028-4	1.000000+8	4.913081-4	1.050000+8	5.180044-4132510	5	683
1.100000+8	5.391617-4	1.200000+8	5.769188-4	1.300000+8	6.090719-4132510	5	684
1.400000+8	6.362969-4	1.500000+8	6.720300-4	1.600000+8	7.277625-4132510	5	685
1.700000+8	7.974025-4	1.800000+8	8.687800-4	1.900000+8	9.354994-4132510	5	686
2.000000+8	9.964000-4				132510	5	687
-2.283160+1	-2.283160+1	5010	0	1	75132510	5	688
75	2				132510	5	689
2.368441+7	0.000000+0	2.400000+7	0.000000+0	2.500000+7	2.323797-9132510	5	690
2.600000+7	7.748856-9	2.700000+7	2.236431-8	2.800000+7	5.555381-8132510	5	691
2.900000+7	1.347603-7	3.000000+7	2.486043-7	3.100000+7	7.652869-7132510	5	692
3.200000+7	1.533571-3	3.300000+7	3.131493-5	3.400000+7	6.128641-5132510	5	693
3.500000+7	1.002540-4	3.600000+7	1.400000-4	3.700000+7	1.236179-7132510	5	694
3.800000+7	2.634747-4	3.900000+7	3.098820-4	4.000000+7	3.590016-4132510	5	695
4.100000+7	4.268952-4	4.200000+7	4.931236-4	4.300000+7	5.659419-4132510	5	696
4.400000+7	6.218766-4	4.500000+7	6.860942-4	4.600000+7	7.632366-4132510	5	697
4.700000+7	7.852760-4	4.800000+7	8.523748-4	4.900000+7	9.211129-4132510	5	698
5.000000+7	9.890718-4	5.100000+7	1.0404031-3	5.200000+7	1.097357-3132510	5	699
5.300000+7	1.144334-3	5.400000+7	1.199458-3	5.500000+7	1.251375-3132510	5	700
5.600000+7	3.130151-3	5.700000+7	3.1732720-7	5.800000+7	1.436903-3132510	5	701
5.900000+7	1.498814-3	6.000000+7	1.551002-3	6.100000+7	1.575706-3132510	5	702
6.200000+7	1.599113-3	6.300000+7	1.615566-3	6.400000+7	1.627255-3132510	5	703
6.500000+7	1.644169-3	6.600000+7	1.623885-3	6.700000+7	1.650726-3132510	5	704
6.800000+7	1.686230-3	6.900000+7	1.719100-3	7.000000+7	1.743048-3132510	5	705
7.200000+7	1.776108-3	7.400000+7	1.801456-3	7.500000+7	1.799458-3132510	5	706
7.600000+7	1.810905-3	7.800000+7	1.833975-3	8.000000+7	1.873383-3132510	5	707
8.200000+7	1.933442-3	8.400000+7	1.998227-3	8.500000+7	2.032109-3132510	5	708
8.600000+7	2.062779-3	8.800000+7	2.094187-3	9.000000+7	2.117365-3132510	5	709
9.500000+7	2.136872-3	1.000000+8	2.197522-3	1.050000+8	2.232189-3132510	5	710
1.100000+8	2.244308-3	1.200000+8	2.389184-3	1.250000+8	2.484229-3132510	5	711
1.300000+8	2.540704-3	1.400000+8	2.674429-3	1.500000+8	2.761570-3132510	5	712
1.600000+8	2.901272-3	1.700000+8	3.025514-3	3.150000+8	3.065066-3132510	5	713
-2.052730+1	-2.052730+1	5011	0	1	77132510	5	715
77	2				132510	5	716
2.129404+7	0.000000+0	2.200000+7	9.79200-13	2.300000+7	4.27733-12132510	5	717
2.400000+7	3.22427-11	2.500000+7	1.24297-10	2.600000+7	4.35067-10132510	5	718
2.700000+7	3.202700-9	2.800000+7	1.040430-8	2.900000+7	2.181630-7132510	5	719
3.000000+7	4.431300-7	3.100000+7	1.033930-6	3.200000+7	1.746300-6132510	5	720
3.300000+7	2.926200-6	3.400000+7	4.509530-6	3.500000+7	4.742107-6132510	5	721
3.600000+7	1.060440-5	3.700000+7	1.186660-5	3.800000+7	1.311280-5132510	5	722
3.900000+7	1.613940-5	4.000000+7	1.984570-5	4.100000+7	2.262120-5132510	5	723
4.200000+7	2.529450-5	4.300000+7	2.876490-5	4.400000+7	3.169860-5132510	5	724
4.500000+7	3.514030-5	4.600000+7	3.912630-5	4.700000+7	4.029170-5132510	5	725
4.800000+7	4.353070-5	4.900000+7	4.713670-5	5.000000+7	5.07370-5132510	5	726
5.100000+7	5.474600-5	5.200000+7	6.059200-5	5.300000+7	6.209530-5132510	5	727
5.400000+7	6.562930-5	5.500000+7	6.941330-5	6.600000+7	7.262900-5132510	5	728
5.700000+7	6.194090-5	5.800000+7	7.923600-5	5.900000+7	8.231470-5132510	5	729
6.000000+7	8.502000-5	6.100000+7	8.768730-5	6.200000+7	9.054800-5132510	5	730
6.300000+7	9.361200-5	6.400000+7	9.893330-5	6.500000+7	10.993330-5132510	5	731
6.600000+7	9.861400-5	6.700000+7	1.013900-4	6.800000+7	1.034600-4132510	5	732
6.900000+7	1.063600-4	7.000000+7	1.092600-4	7.124800-4	1.124800-4132510	5	733
7.400000+7	1.152700-4	7.500000+7	1.162300-4	7.600000+7	1.183200-4132510	5	734
7.800000+7	1.207600-4	8.000000+7	1.246600-4	8.200000+7	1.272400-4132510	5	735
8.400000+7	1.311400-4	8.500000+7	1.330000-4	8.600000+7	1.364900-4132510	5	736
8.800000+7	1.420600-4	9.000000+7	1.477100-4	9.500000+7	1.570500-4132510	5	737
1.000000+8	1.680000-4	1.050000+8	1.817000-4	1.100000+8	1.927900-4132510	5	738
1.200000+8	2.271900-4	1.250000+8	2.433700-4	1.300000+8	2.637000-4132510	5	739
1.400000+8	3.044100-4	1.500000+8	3.422000-4	1.600000+8	3.961800-4132510	5	740
1.700000+8	4.506000-4	1.750000+8	5.569900-4	1.800000+8	6.238000-4132510	5	741
1.900000+8	7.831030-4	2.000000+8	9.739400-4		132510	5	742
-3.395229+1	-3.395229+1	5012	0	1	63132510	5	743
63	2				132510	5	744
3.522049+7	0.000000+0	3.600000+7	1.65017-12	3.700000+7	7.01633-12132510	5	745
3.800000+7	2.19803-11	3.900000+7	6.118000-11	4.000000+7	1.55583-10132510	5	746
4.100000+7	3.16577-10	4.200000+7	6.79600-10	4.300000+7	1.27000-9132510	5	747
4.400000+7	2.063370-9	4.500000+7	3.743330-9	4.600000+7	7.375000-9132510	5	748
4.700000+7	1.321270-8	4.800000+7	2.618370-8	4.900000+7	4.443000-8132510	5	749
5.000000+7	7.519000-8	5.100000+7	1.404360-7	5.200000+7	2.111990-7132510	5	750
5.300000+7	2.812510-7	5.400000+7	3.543470-7	5.500000+7	4.346350-7132510	5	751
5.600000+7	5.305970-7	5.700000+7	6.459810-7	5.800000+7	7.540650-7132510	5	752
5.900000+7	8.951400-7	6.000000+7	9.502070-7	6.100000+7	1.052070-7132510	5	753
6.200000+7	1.147890-6	6.300000+7	1.250950-6	6.400000+7	1.353940-6132510	5	754
6.500000+7	1.541663-6	6.600000+7	1.508490-6	6.700000+7	1.624656-6132510	5	755
6.800000+7	1.764550-6	6.900000+7	1.709040-6	7.000000+7	1.795800-6132510	5	756
7.200000+7	2.270610-6	7.400000+7	2.461490-6	7.500000+7	2.558670-6132510	5	757
7.600000+7	2.699500-6	7.800000+7	2.920500-6	8.000000+7	3.237330-6132510	5	758
8.200000+7	3.558600-6	8.400000+7	3.822530-6	8.500000+7	4.039180-6132510	5	759
8.600000+7	4.032300-6	8.800000+7	4.623550-6	9.000000+7	5.024200-6132510	5	760
9.500000+7	5.784200-6	9.000000+7	6.524000-6	7.000000+7	8.305190-6132510	5	761
1.100000+8	9.875000-6	1.200000+8	1.244340-5	1.250000+8	1.375070-5132510	5	762
1.300000+8	1.524130-5	1.400000+8	1.826100-5	1.500000+8	2.746700-5132510	5	763
1.600000+8	3.816740-5	1.700000+8	5.095570-5	1.750000+8	5.745280-5132510	5	764
1.800000+8	6.395690-5	1.900000+8	7.990000-5	2.000000+8	1.041300-5132510	5	765
-4.303679+1	-4.303679+1	5013	0	1	54132510	5	766
54	2				132510	5	767
4.464432+7	0.000000+0	4.500000+7	4.62180-17	4.600000+7	4.68767-16132510	5	768
4.700000+7	5.123120-16	4.800000+7	5.164683-15	4.900000+7	5.200000+7132510	5	769

8.000000+7	2.633973-3	9.000000+7	2.868917-3	9.500000+7	3.481077-3132510	5	921
1.000000+8	4.137763-3	1.050000+8	4.767628-3	1.100000+8	5.296723-3132510	5	922
1.200000+8	6.254100-3	1.250000+8	6.523900-3	1.300000+8	6.812000-3132510	5	923
1.400000+8	7.470300-3	1.500000+8	8.177200-3	1.600000+8	9.862700-3132510	5	924
1.700000+8	1.037400-2	1.750000+8	1.077400-2	1.800000+8	1.114100-2132510	5	925
1.900000+8	1.223100-2	2.000000+8	1.222900-2		132510	5	926
-1.588850+1-1.588850+1	6013	0	1	72132510	5	927	
72	2			132510	5	928	
1.648197+7	2.000000+0	2.400000+7	0.000000+0	2.600000+7	1.127833-5132510	5	929
2.800000+7	5.464188-5	3.000000+7	1.000000+4	3.100000+7	1.179455-4132510	5	930
3.200000+7	1.353213-4	3.300000+7	1.521623-4	3.400000+7	1.685005-4132510	5	931
3.500000+7	1.843651-4	3.600000+7	1.997827-4	3.700000+7	2.147779-4132510	5	932
3.800000+7	2.293732-4	3.900000+7	2.435893-4	4.000000+7	2.574455-4132510	5	933
4.100000+7	2.709595-4	4.200000+7	2.841478-4	4.300000+7	2.970258-4132510	5	934
4.400000+7	3.096077-4	4.500000+7	3.219069-4	4.600000+7	3.339357-4132510	5	935
4.700000+7	3.457059-4	4.800000+7	3.572282-4	4.900000+7	3.685129-4132510	5	936
5.000000+7	3.795696-4	5.100000+7	3.904074-4	5.200000+7	4.013474-4132510	5	937
5.300000+7	4.114596-4	5.400000+7	4.216896-4	5.500000+7	4.317319-4132510	5	938
5.600000+7	4.415933-4	5.700000+7	4.512801-4	5.800000+7	4.607984-4132510	5	939
5.900000+7	4.701504-4	6.000000+7	4.793524-4	6.100000+7	4.883987-4132510	5	940
6.200000+7	4.972979-4	6.300000+7	5.060547-4	6.400000+7	5.146736-4132510	5	941
6.500000+7	5.231589-4	6.600000+7	5.315146-4	6.700000+7	5.397447-4132510	5	942
6.800000+7	5.478529-4	6.900000+7	5.585426-4	7.000000+7	5.637175-4132510	5	943
7.200000+7	5.791351-4	7.400000+7	5.941303-4	7.500000+7	6.014765-4132510	5	944
7.600000+7	6.087255-4	7.800000+7	6.229416-4	8.000000+7	6.367978-4132510	5	945
8.200000+7	6.503118-4	8.400000+7	6.635002-4	8.500000+7	6.699797-4132510	5	946
8.600000+7	6.763782-4	8.800000+7	6.889601-4	9.000000+7	7.012593-4132510	5	947
9.500000+7	7.308497-4	1.000000+8	7.589220-4	1.050000+8	8.297749-4132510	5	948
1.100000+8	9.078904-0	1.200000+8	1.183337-3	1.250000+8	1.350052-3132510	5	949
1.300000+8	1.5222704-3	1.400000+8	1.919217-3	1.500000+8	2.276113-3132510	5	950
1.600000+8	2.7575403-3	1.700000+8	3.189136-3	1.750000+8	3.443285-3132510	5	951
1.800000+8	3.688483-3	1.900000+8	4.247410-3	2.000000+8	4.637921-3132510	5	952
-2.093556+1-2.093556+1	6014	0	1	87132510	5	953	
87	2			132510	5	954	
2.171756+7	0.000000+0	2.200000+7	1.26431-14	2.300000+7	1.16623-13132510	5	955
2.400000+7	1.07575-12	2.500000+7	7.90780-12	2.600000+7	4.63428-11132510	5	956
2.700000+7	2.71376-10	2.800000+7	1.589750-9	2.900000+7	9.312936-9132510	5	957
3.000000+7	3.898746-8	3.100000+7	1.166390-7	3.200000+7	3.489496-7132510	5	958
3.300000+7	4.104354-6	3.400000+7	3.123204-6	3.500000+7	6.672712-6132510	5	959
3.600000+7	1.038093-5	3.700000+7	1.553361-5	3.800000+7	2.370051-5132510	5	960
3.900000+7	3.616119-5	4.000000+7	4.797225-5	4.100000+7	5.535300-5132510	5	961
4.200000+7	6.382776-5	4.300000+7	3.762401-5	4.400000+7	8.492376-5132510	5	962
4.500000+7	8.945603-5	4.600000+7	6.805193-5	4.700000+7	8.277737-5132510	5	963
4.800000+7	7.962742-5	4.900000+7	6.7569734-5	5.000000+7	7.436508-5132510	5	964
5.100000+7	7.286666-5	5.200000+7	7.139843-5	5.300000+7	6.959975-5132510	5	965
5.400000+7	6.855013-5	5.500000+7	7.104633-5	5.600000+7	7.788405-5132510	5	966
5.700000+7	8.537986-5	5.800000+7	9.359709-5	5.900000+7	1.026052-4132510	5	967
6.000000+7	1.413262-4	6.100000+7	1.294768-6	6.200000+7	1.466352-4132510	5	968
6.300000+7	1.666074-4	6.400000+7	1.880748-4	6.413000+7	1.911422-4132510	5	969
6.500000+7	2.089738-4	6.600000+7	2.286401-4	6.700000+7	2.501572-4132510	5	970
6.798000+7	2.732074-2	6.800000+7	2.736993-4	6.900000+7	2.994110-4132510	5	971
7.000000+7	3.128603-4	7.200000+7	3.415987-4	7.400000+7	3.729768-4132510	5	972
7.500000+7	3.786114-4	7.600000+7	3.806407-4	7.800000+7	3.847320-4132510	5	973
8.000000+7	3.846965-4	8.200000+7	3.846611-4	8.315400-7	3.848499-4132510	5	974
8.400000+7	3.623979-4	8.402100-7	3.862659-5	8.500000+7	3.878089-4132510	5	975
8.600000+7	3.895452-4	8.800000+7	3.915143-4	8.900000+7	3.919212-4132510	5	976
9.500000+7	3.903617-4	1.000000+8	3.924843-4	1.009200-8	3.935003-4132510	5	977
1.045900+8	4.009620-4	1.047500+8	4.014961-4	1.050000+8	4.023319-4132510	5	978
1.100000+8	4.246125-4	1.200000+8	4.884154-4	1.250000+8	5.246414-4132510	5	979
1.253400+8	5.271231-4	1.300000+8	5.547206-8	1.328800-8	5.632953-4132510	5	980
1.400000+8	5.646351-4	1.403300-8	5.644496-4	1.500000+8	5.915705-4132510	5	981
1.600000+8	5.91207-4	1.700000+8	5.677742-4	1.750000+8	5.745251-4132510	5	982
1.800000+8	5.796789-4	1.900000+8	5.840802-4	2.000000+8	5.860000+8-4132510	5	983
-4.289599+1-4.289599+1	6015	0	1	36132510	5	984	
36	2			132510	5	985	
4.449826+7	0.000000+0	6.300000+7	0.000000+0	6.400000+7	5.97286-3132510	5	986
6.500000+7	1.90804-27	6.600000+7	2.93429-10	6.700000+7	5.86857-10132510	5	987
6.800000+7	8.802616-10	6.900000+7	1.173714-9	7.000000+7	1.467143-9132510	5	988
7.200000+7	2.023161-9	7.400000+7	2.581295-9	7.500000+7	2.871131-9132510	5	989
7.600000+7	2.590396-9	7.800000+7	2.113818-7	8.000000+7	1.877367-9132510	5	990
8.200000+7	4.603049-7	8.400000+7	8.102007-7	8.500000+7	8.166020-3132510	5	991
8.600000+7	9.497696-8	8.800000+7	1.014334-7	9.000000+7	9.671057-8132510	5	992
9.500000+7	3.677481-7	1.000000+8	1.073896-5	1.050000+8	1.697524-6132510	5	993
1.100000+8	2.571794-6	1.200000+8	4.06552-6	1.250000+8	5.579895-6132510	5	994
1.300000+8	6.801137-6	1.400000+8	1.058588-5	1.500000+8	1.486337-5132510	5	995
1.600000+8	2.019535-5	1.700000+8	2.621967-5	1.750000+8	2.840609-5132510	5	996
1.800000+8	3.059868-5	1.900000+8	3.234261-5	2.000000+8	3.994015-5132510	5	997
-5.561489+1-5.561489+1	6016	0	1	34132510	5	998	
34	2			132510	5	999	
5.769224+7	0.000000+0	6.500000+7	0.000000+0	6.600000+7	1.16926-37132510	5	1000
6.700000+7	1.26161-35	6.800000+7	2.29634-31	7.65870-29132510	5	1001	
7.000000+7	3.555539-7	7.200000+7	4.524922-23	7.400000+7	9.03796-20132510	5	1002
7.500000+7	3.57270-18	7.600000+7	7.05051-18	7.800000+7	3.05497-16132510	5	1003
8.000000+7	2.752345-14	8.200000+7	7.01094-14	8.400000+7	2.95924-13132510	5	1004
8.500000+7	1.08514-12	8.600000+7	1.87490-12	8.800000+7	8.86406-12132510	5	1005
9.000000+7	2.474771-7	9.500000+7	1.60111-10	1.000000+8	3.57491-10132510	5	1006
1.050000+8	2.348771-9	1.100000+8	4.060471-9	1.200000+8	2.335019-8132510	5	1007
1.250000+8	6.059036-8	1.300000+8	1.150941-7	1.400000+8	2.328640-7132510	5	1008
1.500000+8	4.851263-7	1.600000+8	6.888330-7	1.700000+8	8.972371-7132510	5	1009
1.750000+8	1.029447-6	1.800000+8	1.114826-6	1.900000+8	1.302249-6132510	5	1010
2.000000+8	1.462422-6			132510	5	1011	
-7.745191-4-7.745191-4	6017	0	1	19132510	5	1012	
19	2			132510	5	1013	
8.034492+7	0.000000+0	8.600000+7	0.000000+0	8.800000+7	1.90900-34132510	5	1014
9.000000+7	2.466428-28	9.500000+7	3.01035-20	1.000000+8	5.06147-16132510	5	1015
1.050000+8	1.51618-13	1.100000+8	1.37913-12	1.200000+8	5.17040-11132510	5	1016
1.250000+8	1.04301-10	1.300000+8	1.56898-10	1.400000+8	3.85202-10132510	5	1017
1.500000+8	8.18558-10	1.600000+8	1.681239-9	1.700000+8	3.710087-9132510	5	1018
1.750000+8	6.089027-9	1.800000+8	9.457443-9	1.900000+8	1.548706-8132510	5	1019
2.000000+8	2.011528-8			132510	5	1020	
-1.009829+2-1.009829+2	6019	0	1	11132510			

7.400000+7	4.952316-7	7.500000+7	8.044789-7	7.600000+7	1.080716-6	132510	5	1173
7.800000+7	2.086311-6	8.000000+7	3.244712-6	8.200000+7	4.530963-6	132510	5	1174
8.400000+7	5.909807-6	8.500000+7	6.610603-6	8.600000+7	7.285193-6	132510	5	1175
8.800000+7	8.753839-6	9.000000+7	9.717217-6	9.500000+7	1.249926-5	132510	5	1176
1.000000+7	1.508097-5	1.050000+8	1.857598-5	1.100000+8	2.312803-5	132510	5	1177
1.200000+7	3.561631-5	1.250000+8	4.052536-5	1.300000+8	4.606100-5	132510	5	1178
1.400000+8	5.776899-5	1.500000+8	7.316559-5	1.600000+8	8.463194-5	132510	5	1179
1.700000+8	9.527862-5	1.750000+8	1.007153-4	1.800000+8	1.057485-4	132510	5	1180
1.900000+8	1.129056-4	2.000000+8	1.210534-4			132510	5	1181
-6.1820891-6	1.61820891-1		7018	0	1	29132510	5	1182
29	2					132510	5	1183
6.413005+7	0.000000+0	7.000000+7	0.000000+0	7.200000+7	7.94757-27132510	5	1184	
7.400000+7	1.15318-20	7.500000+7	1.58931-17	7.600000+7	3.17747-17132510	5	1185	
7.800000+7	1.39991-15	8.000000+7	6.00930-14	8.200000+7	1.12743-12132510	5	1186	
8.400000+7	9.59091-12	8.500000+7	4.66825-11	8.600000+7	8.37740-11132510	5	1187	
8.800000+7	5.13649-10	9.000000+7	1.476857-9	9.500000+7	6.263171-9132510	5	1188	
1.000000+8	2.130257-8	1.050000+8	6.874110-8	1.100000+8	1.499671-7132510	5	1189	
1.200000+8	3.779262-7	1.250000+8	4.952668-7	1.300000+8	6.054752-7132510	5	1190	
1.400000+8	8.242468-7	1.500000+8	1.054702-6	1.600000+8	1.285661-6	132510	5	1191
1.700000+8	1.492150-6	1.750000+8	1.591142-6	1.800000+8	1.711542-6	132510	5	1192
1.900000+8	1.962671-6	2.000000+8	2.160046-6			132510	5	1193
-6.4633661-6	6.4633661-1		7019	0	1	28132510	5	1194
28	2					132510	5	1195
6.704788+7	0.000000+0	7.200000+7	0.000000+0	7.400000+7	8.33987-32132510	5	1196	
7.500000+7	1.46898-2	7.600000+7	2.93795-26	7.800000+7	5.55637-22132510	5	1197	
8.000000+7	3.06675-19	8.200000+7	3.36987-17	8.400000+7	4.43368-16132510	5	1198	
8.500000+7	5.79496-15	8.600000+7	1.11464-14	8.800000+7	2.66263-14132510	5	1199	
9.000000+7	5.16102-13	9.500000+7	1.46152-11	1.000000+8	9.25547-11132510	5	1200	
1.050000+8	4.10498-10	1.100000+8	1.028135-9	1.200000+8	4.080450-9132510	5	1201	
1.250000+8	6.027572-9	1.300000+8	8.897443-9	1.400000+8	9.160535-8132510	5	1202	
1.500000+8	3.624200-8	1.600000+8	5.650607-8	1.700000+8	7.679796-8132510	5	1203	
1.750000+8	8.508509-8	1.800000+8	9.135939-9	1.900000+8	1.029357-7132510	5	1204	
2.000000+8	1.45288-7					132510	5	1205
-8.305396+1-8.	3.053961+1		7020	0	1	17132510	5	1206
17	2					132510	5	1207
8.615623+7	0.000000+0	9.000000+7	0.000000+0	9.500000+7	4.94898-27132510	5	1208	
1.000000+8	1.22873-19	1.050000+8	5.14185-15	1.100000+8	3.33586-13132510	5	1209	
1.200000+8	2.78942-11	1.250000+8	1.11514-10	1.300000+8	1.95134-10132510	5	1210	
1.400000+8	7.19300-10	1.500000+8	1.872933-9	1.600000+8	4.584600-9132510	5	1211	
1.700000+8	1.062927-8	1.750000+8	1.58900-8	1.800000+8	1.885962-8132510	5	1212	
1.900000+8	2.620428-8	2.000000+8	3.380000-8			132510	5	1213
-8.6160691-8	6.6160691-1		7021	0	1	15132510	5	1214
15	2					132510	5	1215
8.937899+7	0.000000+0	9.000000+7	0.000000+0	9.500000+7	9.35791-41132510	5	1216	
1.000000+8	1.17519-28	1.050000+8	1.25754-20	1.100000+8	1.30839-17132510	5	1217	
1.200000+8	2.10060-14	1.300000+8	7.55167-13	1.400000+8	5.32369-12132510	5	1218	
1.500000+8	1.88710-11	1.600000+8	3.08306-11	1.700000+8	4.86739-11132510	5	1219	
1.800000+8	5.92529-11	1.900000+8	8.81992-11	2.000000+8	8.81992-11132510	5	1220	
-8.964483+1-8.	9.644843+1		8010	0	1	9132510	5	1221
9	2					132510	5	1222
9.299328+7	0.000000+0	1.300000+8	0.000000+0	1.400000+8	2.30221-33132510	5	1223	
1.500000+8	7.90052-25	1.600000+8	2.81131-21	1.700000+8	5.86759-19132510	5	1224	
1.800000+8	5.32678-12	2.000000+8	4.25035-17	2.000000+8	2.02976-16132510	5	1225	
-7.867989+1-7.	8.679898+1		8011	0	1	11132510	5	1226
11	2					132510	5	1227
8.161877+7	0.000000+0	1.100000+8	0.000000+0	1.200000+8	2.55592-27132510	5	1228	
1.300000+8	4.42096-19	1.140000+8	7.40364-16	1.500000+8	1.23860-14132510	5	1229	
1.600000+8	1.68720-13	1.700000+8	5.60416-13	1.800000+8	1.23381-12132510	5	1230	
1.900000+8	3.52267-12	2.000000+8	3.52267-12			132510	5	1231
-5.561489+1-5.	5.561489+1		8012	0	1	15132510	5	1232
15	2					132510	5	1233
5.769224+7	0.000000+0	9.000000+7	0.000000+0	9.500000+7	3.02478-28132510	5	1234	
1.000000+8	1.240292-20	1.050000+8	1.067000-13	2.13626-13132510	5	1235		
1.200000+8	7.99699-12	1.300000+8	5.47208-11	1.400000+8	1.87518-10132510	5	1236	
1.500000+8	5.0905-10	1.600000+8	1.206431-9	1.700000+8	2.931285-9132510	5	1237	
1.800000+8	7.500321-9	1.900000+8	1.824044-8	2.000000+8	4.238276-8132510	5	1238	
-4.289599+1-4.	2.89599+1		8013	0	1	28132510	5	1239
28	2					132510	5	1240
4.449826+7	0.000000+0	7.200000+7	0.000000+0	7.400000+7	1.65736-25132510	5	1241	
7.500000+7	3.737254-23	7.600000+7	2.44000-19	7.800000+7	7.32000-10132510	5	1242	
8.000000+7	1.22000-9	8.200000+7	1.73856-9	9.313250	5	1243		
8.500000+7	5.25607-9	8.600000+7	2.880428-8	8.800000+7	3.784934-9132510	5	1244	
9.000000+7	4.943040-9	9.500000+7	3.995567-9	1.000000+8	1.727991-8132510	5	1245	
1.050000+8	3.084387-8	1.100000+8	5.36925-8	1.200000+8	1.507047-7132510	5	1246	
1.250000+8	3.988182-7	1.300000+8	4.497586-7	1.400000+8	1.117235-6132510	5	1247	
1.500000+8	2.111380-6	1.600000+8	3.503517-6	1.700000+8	5.285331-6132510	5	1248	
1.750000+8	6.393028-6	1.800000+8	7.490808-6	1.900000+8	9.951222-6132510	5	1249	
2.000000+8	1.287052-5					132510	5	1250
-2.0935561+2.	0.935561+1		8014	0	1	77132510	5	1251
77	2					132510	5	1252
2.171756+7	0.000000+0	2.200000+7	1.56043-17	2.300000+7	2.18671-14132510	5	1253	
2.400000+7	8.24900-14	2.500000+7	2.06000-13	2.600000+7	5.00829-13132510	5	1254	
2.700000+7	1.12457-12	2.800000+7	2.12168-12	2.900000+7	1.08161-11132510	5	1255	
3.000000+7	8.58457-11	3.100000+7	5.316868-8	3.200000+7	1.074380-7132510	5	1256	
3.300000+7	1.557967-6	3.400000+7	2.027114-7	3.500000+7	2.482662-7132510	5	1257	
3.600000+7	2.925376-7	3.700000+7	3.355960-7	3.800000+7	3.755060-7132510	5	1258	
3.900000+7	4.183272-7	4.000000+7	4.581149-7	4.100000+7	4.969202-7132510	5	1259	
4.200000+7	5.347902-7	4.300000+7	5.717691-7	4.400000+7	5.200000+7	132510	5	1260
4.500000+7	6.432416-7	4.600000+7	6.77552-7	4.700000+7	7.115282-7132510	5	1261	
4.800000+7	7.446389-7	4.900000+7	7.770428-7	5.000000+7	8.087911-8132510	5	1262	
5.100000+7	8.399124-7	5.200000+7	8.704285-7	5.300000+7	9.003633-7132510	5	1263	
5.400000+7	9.297386-7	5.500000+7	9.585748-7	5.600000+7	9.868915-7132510	5	1264	
5.700000+7	1.014707-6	5.800000+7	1.042039-6	5.900000+7	1.068903-6132510	5	1265	
6.000000+7	1.095316-6	6.100000+7	1.176090-6	6.200000+7	1.256670-6132510	5	1266	
6.300000+7	1.338294-6	6.400000+7	1.424635-6	6.500000+7	1.512392-6132510	5	1267	
6.600000+7	6.159364-6	7.600000+7	1.68016-6	6.800000+7	1.825722-6132510	5	1268	
6.900000+7	1.988662-6	7.000000+7	2.024739-7	7.200000+7	3.028743-6132510	5	1269	
7.400000+7	3.933713-6	7.500000+7	4.452692-6	7.600000+7	5.067071-6132510	5	1270	
7.800000+7	6.290963-6	8.000000+7	7.701200-6	8.200000+7	7.902943-6132510	5	1271	
8.400000+7	1.075416-5	8.500000+7	1.142364-5	8.600000+7	1.209637-5132510	5	1272	
8.800000+7	1.321426-5	9.000000+7	1.391311-5	9.500000+7	1.579716-5132510	5	1273	
1.000000+8	1.841509-5	1.050000+8	2.080913-5	2.502666-5	4.132510	5	1274	
1								

8.600000+7	7.68859-11	8.800000+7	2.96470-10	9.000000+7	7.36420-10132510	5 1425	-2.055925+1-2.055925+1	9019	0	1	73132510	5 1551	
9.500000+7	2.797057-9	1.000000+8	7.078614-9	1.050000+8	1.434993-8132510	5 1426	73	2		132510	5 1552		
1.100000+8	2.661371-8	1.200000+8	6.474917-8	1.250000+8	8.982714-8132510	5 1427	2.132718+7	0.000000+0	2.600000+7	0.000000+0	2.700000+7	2.48510-14132510	5 1553
1.300000+8	1.163214-7	1.400000+8	1.589207-7	1.500000+8	1.916390-7132510	5 1428	2.800000+7	3.78016-11	2.900000+7	6.935917-7	3.000000+7	1.424781-6132510	5 1554
1.600000+8	2.261474-7	1.700000+8	2.658217-7	1.750000+8	2.822367-7132510	5 1429	3.100000+7	8.449459-6	3.200000+7	3.129500-5	3.300000+7	9.305384-5132510	5 1555
1.800000+8	2.976505-7	1.900000+8	3.383249-7	2.000000+8	3.851744-7132510	5 1430	3.400000+7	2.023354-4	3.500000+7	3.987571-4	3.600000+7	6.310187-4132510	5 1556
-6.292172+1-6.292172+1	8022	0	1	29132510	5 1431	3.700000+7	9.367486-4	3.800000+7	1.255766-3	3.900000+7	1.603767-3132510	5 1557	
29	2			132510	5 1432	4.000000+7	1.971693-3	4.100000+7	2.270138-3	4.200000+7	2.506731-3132510	5 1558	
6.527199+7	4.83243-19	8.000000+7	0.000000+7	7.200000+7	4.15568-29132510	5 1433	4.300000+7	2.730010-3	4.400000+7	2.900269-3	4.500000+7	3.072037-3132510	5 1559
7.400000+7	2.69673-24	7.500000+7	2.71579-21	7.600000+7	5.42888-21132510	5 1434	4.600000+7	3.142520-3	4.700000+7	3.172641-3	4.800000+7	3.185027-3132510	5 1560
7.800000+7	4.83243-19	8.000000+7	3.46932-17	8.200000+7	2.05343-15132510	5 1435	4.900000+7	3.176109-3	5.000000+7	3.185659-3	5.100000+7	3.087696-3132510	5 1561
8.400000+7	1.09883-14	8.500000+7	4.44889-14	8.600000+7	7.79895-14132510	5 1436	5.200000+7	2.995367-3	5.300000+7	2.909706-3	5.400000+7	2.815945-3132510	5 1562
8.800000+7	4.01128-13	9.000000+7	1.54911-12	9.500000+7	1.97736-11132510	5 1437	5.500000+7	2.702076-3	5.600000+7	2.595343-3	5.700000+7	2.512144-3132510	5 1563
1.000000+8	2.68620-11	1.050000+8	2.53130-10	1.100000+8	6.01725-10132510	5 1438	5.800000+7	4.218466-3	5.900000+7	2.326609-3	6.300000+7	2.255263-3132510	5 1564
1.200000+8	2.587420-9	1.250000+8	3.504492-9	1.300000+8	4.491299-9132510	5 1439	6.100000+7	2.184381-3	6.200000+7	2.108580-3	6.300000+7	2.065147-3132510	5 1565
1.400000+8	6.188896-9	1.500000+8	7.322683-9	1.600000+8	8.729388-9132510	5 1440	6.400000+7	2.050101-3	6.500000+7	2.029103-3	6.600000+7	2.032956-3132510	5 1566
1.700000+8	1.190038-8	1.750000+8	4.141521-1	1.800000+8	1.609762-8132510	5 1441	6.700000+7	2.061436-3	6.800000+7	2.085959-3	6.900000+7	2.114717-3132510	5 1567
1.900000+8	1.916452-8	2.000000+8	2.107007-8		132510	5 1442	7.000000+7	2.173339-3	7.200000+7	2.350054-3	7.400000+7	2.591103-3132510	5 1568
-1.270884+2-1.270884+2	9011	0	1	5132510	5 1443	7.500000+7	2.727336-3	7.600000+7	2.875854-3	7.800000+7	3.180074-3132510	5 1569	
8.000000+0	7.000000+0	7.000000+0	7.000000+0	7.000000+0	7.000000+0	5 1444	8.000000+7	3.492766-3	8.200000+7	3.827090-3	8.400000+7	4.167524-3132510	5 1570
1.318355+8	0.000000+0	1.700000+8	0.000000+0	1.800000+8	4.55887-39132510	5 1445	8.500000+7	4.315293-3	8.600000+7	4.4640833-3	8.800000+7	4.780197-3132510	5 1571
1.900000+8	2.03965-28	2.000000+8	8.84168-24		132510	5 1446	9.000000+7	5.033377-3	9.500000+7	5.611903-9	1.000000+7	6.103544-3132510	5 1572
-0.151151+2-0.151151+2	9012	0	1	7132510	5 1447	1.050000+6	6.459230-3	1.100000+8	6.717610-3	1.200000+8	7.417355-3132510	5 1573	
1.090414+8	0.000000+0	1.500000+8	0.000000+0	1.600000+8	6.88769-28132510	5 1448	1.250000+8	7.801730-3	1.300000+8	8.174686-3	1.400000+8	8.766026-3132510	5 1574
1.700000+8	4.90665-21	1.800000+8	9.77881-19	1.900000+8	5.67208-17132510	5 1450	1.500000+8	8.905044-3	1.600000+8	8.852570-3	1.700000+8	8.676499-3132510	5 1575
2.000000+8	9.12708-16			132510	5 1451	1.750000+8	8.566282-3	1.800000+8	8.450866-3	1.900000+8	8.679786-3132510	5 1576	
-8.089489+1-8.089489+1	9013	0	1	10132510	5 1452	2.000000+8	8.789129-3			132510	5 1577		
10	2			132510	5 1453	-3.281203+1-3.281203+1	9020	0	1	69132510	5 1578		
8.391651+7	0.000000+0	1.200000+8	0.000000+0	1.300000+8	1.11640-24132510	5 1454	3.403763+7	0.000000+0	4.000000+7	0.000000+0	4.100000+7	1.542157-8132510	5 1580
1.400000+8	3.60470-18	1.500000+8	1.16651-15	1.600000+8	2.91673-14132510	5 1455	4.200000+7	2.933478-8	4.300000+7	4.205280-8	4.400000+7	5.319314-8132510	5 1581
1.700000+8	3.72501-13	1.800000+8	1.46328-12	1.900000+8	3.47895-12132510	5 1456	4.500000+7	6.744155-8	4.600000+7	3.371458-7	4.679670+6	6.077252-7132510	5 1582
2.000000+8	6.77711-12			132510	5 1457	4.700000+7	6.145843-7	4.800000+7	9.038830-7	6.483660-4	1.585291-6132510	5 1583	
-6.553189+1-6.553189+1	9014	0	1	13132510	5 1458	5.000000+7	1.990654-6	5.000000+7	5.305918-6	5.100000+7	7.233831-6132510	5 1584	
13	2			132510	5 1459	5.200000+7	1.246648-5	5.300000+7	1.895834-3	5.400000+7	2.774310-5132510	5 1585	
6.779766+7	0.000000+0	1.000000+8	0.000000+0	1.050000+8	3.10540-13132510	5 1460	5.491600+7	3.769026-5	5.500000+7	5.363841-3	5.600000+7	5.323637-5132510	5 1586
1.100000+8	6.21080-13	1.200000+8	2.70831-11	1.300000+8	1.72002-10132510	5 1461	5.700000+7	7.101012-4	5.800000+7	8.943679-5	5.900000+7	1.093362-4132510	5 1587
1.400000+8	5.33796-10	1.500000+8	2.193930-9	1.600000+8	6.736208-9132510	5 1462	6.000000+7	1.309630-4	6.100000+7	7.147500-4	6.646869-4132510	5 1588	
1.700000+8	2.01606-8	1.800000+8	3.945563-8	1.900000+8	6.188732-8132510	5 1463	6.200000+7	1.903438-4	6.300000+7	2.202070-4	6.400000+7	2.517805-4132510	5 1589
2.000000+8	8.470335-8			132510	5 1464	6.500000+7	2.85751-4	6.600000+7	3.263683-4	6.700000+7	3.734802-4132510	5 1590	
-4.303679+1-4.303679+1	9015	0	1	29132510	5 1465	6.800000+7	4.154564-8	6.900000+7	4.623236-4	7.000000+7	5.038822-4132510	5 1591	
29	2			132510	5 1466	7.200000+7	6.100156-4	7.400000+7	7.070595-9	7.500000+7	7.486762-4132510	5 1592	
4.464432+7	0.000000+0	1.000000+7	0.000000+0	7.200000+7	1.53331-15132510	5 1467	7.600000+7	7.898145-4	8.000000+7	8.624334-3	8.800000+7	9.261284-4132510	5 1593
7.400000+7	3.06662-15	7.500000+7	3.83327-15	7.600000+7	2.54769-12132510	5 1468	8.000000+7	9.898837-4	8.400000+7	1.022677-3	8.500000+7	1.022677-3132510	5 1594
7.800000+7	7.63514-21	8.000000+7	1.27231-11	8.200000+7	6.743641-10132510	5 1469	8.600000+7	1.066432-3	8.615600-7	1.067992-3	8.800000+7	1.085790-3132510	5 1595
8.400000+7	1.474560-9	9.000000+7	1.840019-9	9.600000+7	2.205478-9132510	5 1470	8.900000+7	1.089265-3	9.000000+8	1.09167-3	9.000000+7	1.104996-3132510	5 1596
8.800000+7	2.936406-8	9.000000+7	3.637259-7	9.500000+7	3.105740-8132510	5 1471	9.500000+7	1.089265-3	9.100000+8	1.115222-3	9.100000+8	1.141004-3132510	5 1597
1.000000+9	9.900561-8	1.250000+8	1.312138-6	1.300000+8	1.628719-6132510	5 1472	1.096700+7	1.179721-3	1.100000+8	1.182347-3	1.140900-8	1.189173-3132510	5 1598
1.200000+8	9.955561-7	1.250000+8	1.312138-6	1.300000+8	1.628719-6132510	5 1473	1.200000+8	1.197563-3	1.250000+8	1.281676-3	1.300000+8	1.370749-3132510	5 1599
1.400000+8	6.214928-8	1.500000+8	4.079043-6	4.160000+8	5.951020-6132510	5 1474	1.350000+8	1.415264-3	1.400000+8	1.460695-3	1.500000+8	1.448789-3132510	5 1600
1.700000+8	8.109484-8	1.750000+8	9.180894-8	9.180894-8	1.025253-5132510	5 1475	1.600000+8	1.391110-3	1.700000+8	1.386982-3	1.750000+8	1.418879-3132510	5 1601
1.900000+8	1.237945-3	2.000000+8	1.456038-5	1.456038-5	132510	5 1476	1.800000+8	1.450799-8	1.900000+8	1.470379-3	2.000000+8	1.497039-3132510	5 1602
-3.395229+1-3.395229+1	9016	0	1	44132510	5 1477	-3.415212+1-3.415212+1	9021	0	1	66132510	5 1603		
71	2			132510	5 1478	6.800000+7	4.500000+7	5.000000+7	3.900000+7	4.000000+7	5.384420-22132510	5 1605	
3.522049+7	0.000000+0	5.500000+7	0.000000+0	5.600000+7	1.30350-13132510	5 1479	3.542778+7	0.000000+0	3.900000+7	0.000000+0	4.000000+7	5.384420-22132510	5 1606
5.700000+7</													

8.691653+7	0.000000+0	1.000000+8	0.000000+0	1.050000+8	1.31012-27132510	5 1677
1.100000+8	4.63520-21	1.200000+8	7.39041-16	1.300000+8	1.05954-13132510	5 1678
1.400000+8	8.31937-13	1.500000+8	2.07036-12	1.600000+8	3.81501-12132510	5 1679
1.700000+8	5.23077-12	1.800000+8	6.55491-12	1.900000+8	8.45366-12132510	5 1680
2.000000+8	1.03656-11				132510	5 1681
-5.897269+1-5.897269+1	10016	0	1	25132510	5 1682	
25	2			132510	5 1683	
6.117546+7	0.000000+0	7.600000+7	0.000000+0	7.800000+7	4.11536-30132510	5 1684
8.000000+7	3.80903-27	8.200000+7	9.27429-14	8.400000+7	1.85486-13132510	5 1685
8.500000+7	2.31879-13	8.600000+7	2.78272-13	8.800000+7	3.70972-13132510	5 1686
9.000000+7	4.67918-13	9.500000+7	2.80593-11	1.000000+8	7.87741-11132510	5 1687
1.050000+8	1.71911-10	1.100000+8	3.26726-10	1.200000+8	7.98122-10132510	5 1688
1.250000+8	1.244883-9	1.300000+8	2.090753-9	1.400000+8	7.344185-9132510	5 1689
1.500000+8	2.347080-8	1.600000+8	5.285021-8	1.700000+8	8.710530-8132510	5 1690
1.750000+8	1.024652-7	1.800000+8	1.163429-7	1.900000+8	1.41881-7132510	5 1691
2.000000+8	1.720890-7				132510	5 1692
-4.658566+1-4.658566+1	10017	0	1	39132510	5 1693	
39	2			132510	5 1694	
4.832564+7	0.000000+0	6.000000+7	0.000000+0	6.100000+7	9.62102-17132510	5 1695
6.200000+7	1.92420-16	6.300000+7	2.88631-16	6.400000+7	3.91487-16132510	5 1696
6.500000+7	5.75115-16	6.600000+7	1.31297-12	6.700000+7	2.62665-12132510	5 1697
6.800000+7	4.01391-12	6.900000+7	5.72050-12	7.000000+7	8.65225-12132510	5 1698
7.200000+7	1.42696-10	7.400000+7	4.19197-10	7.500000+7	5.66456-10132510	5 1699
7.600000+7	9.64200-10	7.800000+7	2.150723-9	8.000000+7	3.212638-9132510	5 1700
8.200000+7	6.938906-8	8.400000+7	2.77954-8	8.500000+7	1.633416-8132510	5 1701
8.600000+7	9.988789-8	8.800000+7	3.148394-8	9.000000+7	5.055660-8132510	5 1702
9.500000+7	1.020119-7	1.000000+8	1.536478-7	1.050000+8	2.041619-7132510	5 1703
1.100000+8	2.704040-7	1.200000+8	4.485863-7	1.250000+8	5.672031-7132510	5 1704
1.300000+8	7.237127-8	1.400000+8	1.082554-6	1.500000+8	1.449099-6132510	5 1705
1.600000+8	1.803870-6	1.700000+8	2.138032-6	1.750000+8	2.291351-6132510	5 1706
1.800000+8	2.438396-6	1.900000+8	2.714479-6	2.000000+8	2.978523-6132510	5 1707
-2.783298+1-2.783298+1	10018	0	1	70132510	5 1708	
70	2			132510	5 1709	
2.887261+7	0.000000+0	2.900000+7	0.000000+0	3.000000+7	1.75834-12132510	5 1710
3.100000+7	8.06322-12	3.200000+7	3.08130-13	3.300000+7	3.68843-10132510	5 1711
3.400000+7	3.833293-9	3.500000+7	1.714727-8	3.600000+7	5.283939-8132510	5 1712
3.700000+7	4.630585-7	3.800000+7	4.787333-7	3.900000+7	1.092533-6132510	5 1713
4.000000+7	2.616032-6	4.100000+7	4.527145-6	4.200000+7	5.070885-6132510	5 1714
4.300000+7	5.635656-6	4.400000+7	6.263323-6	4.500000+7	6.821686-6132510	5 1715
4.600000+7	4.29811-6	4.700000+7	7.896273-6	4.800000+7	8.392020-6132510	5 1716
4.900000+7	8.743060-6	5.000000+7	9.108783-6	5.100000+7	1.010197-5132510	5 1717
5.200000+7	1.107587-5	5.300000+7	1.203122-5	5.400000+7	1.296872-5132510	5 1718
5.500000+7	1.388901-5	5.600000+7	1.479271-5	5.700000+7	1.568043-5132510	5 1719
5.800000+7	1.655270-5	5.900000+7	1.741006-6	6.000000+7	1.825301-5132510	5 1720
6.100000+7	1.908203-5	6.200000+7	1.987956-5	6.300000+7	2.070005-5132510	5 1721
6.400000+7	2.148990-5	6.500000+7	2.226750-5	6.600000+7	2.303323-5132510	5 1722
6.700000+7	2.378745-5	6.800000+7	2.453049-5	6.900000+7	2.526268-5132510	5 1723
7.000000+7	2.598436-5	7.200000+7	2.734736-5	7.400000+7	2.861796-5132510	5 1724
7.500000+7	2.902859-5	7.600000+7	2.963990-5	7.800000+7	3.072693-5132510	5 1725
8.000000+7	3.132096-5	8.200000+7	3.250446-5	8.400000+7	3.395529-5132510	5 1726
8.500000+7	3.516366-5	8.600000+7	3.644861-5	8.800000+7	4.013687-5132510	5 1727
9.000000+7	4.428230-5	9.500000+7	5.653117-5	1.000000+8	7.556606-5132510	5 1728
1.050000+8	9.415493-5	1.100000+8	1.131547-4	1.200000+8	1.476964-4132510	5 1729
1.250000+8	1.614802-4	1.300000+8	1.805486-4	1.400000+8	2.066773-4132510	5 1730
1.500000+8	2.359077-4	1.600000+8	2.527466-4	1.700000+8	2.622648-4132510	5 1731
1.750000+8	2.653779-4	1.800000+8	2.681922-4	1.900000+8	2.683390-4132510	5 1732
2.000000+8	2.624421-4				132510	5 1733
-2.300839+1-2.300839+1	10019	0	1	70132510	5 1734	
70	2			132510	5 1735	
2.386718+7	0.000000+0	2.900000+7	0.000000+0	3.000000+7	1.01419-14132510	5 1736
3.100000+7	3.133607-7	3.200000+7	2.668256-7	3.300000+7	6.917916-7132510	5 1737
3.400000+7	2.252941-6	3.500000+7	6.871653-6	3.600000+7	1.835790-5132510	5 1738
3.700000+7	4.287679-5	3.800000+7	3.923093-5	3.900000+7	1.342487-4132510	5 1739
4.000000+7	2.020007-4	4.100000+7	2.863743-4	4.200000+7	3.769663-4132510	5 1740
4.300000+7	4.560461-4	4.400000+7	5.292498-4	4.500000+7	6.061013-4132510	5 1741
4.600000+7	6.282714-7	4.700000+7	7.110320-4	4.800000+7	7.451881-4132510	5 1742
4.900000+7	7.669354-4	5.000000+7	7.904190-4	5.100000+7	7.921119-4132510	5 1743
5.200000+7	7.903090-4	5.300000+7	7.874924-4	5.400000+7	7.753079-4132510	5 1744
5.500000+7	7.668894-5	5.600000+7	7.451617-4	5.700000+7	7.285131-4132510	5 1745
5.800000+7	7.106791-4	5.900000+7	6.863181-4	6.000000+7	6.651764-4132510	5 1746
6.100000+7	6.356914-6	5.000000+7	6.131047-4	6.300000+7	5.955181-4132510	5 1747
6.400000+7	5.635656-4	5.000000+7	5.714569-6	6.600000+7	5.661550-4132510	5 1748
6.700000+7	5.634560-4	6.000000+7	5.511531-6	6.900000+7	5.561521-4132510	5 1749
7.000000+7	5.604914-4	7.200000+7	5.913701-4	7.400000+7	6.359230-4132510	5 1750
7.500000+7	6.619639-5	7.600000+7	7.070099-4	7.800000+7	7.889701-4132510	5 1751
8.000000+7	8.802527-4	8.200000+7	9.811110-4	8.400000+7	1.090471-3132510	5 1752
8.500000+7	1.140512-3	8.600000+7	1.191781-3	8.800000+7	1.299035-3132510	5 1753
9.000000+7	1.407603-3	9.500000+7	1.630411-3	1.000000+8	1.805267-3132510	5 1754
1.050000+8	1.939701-3	1.100000+8	2.012290-3	1.200000+8	2.190459-3132510	5 1755
1.250000+8	2.253633-3	1.300000+8	2.310102-3	1.400000+8	2.471168-3132510	5 1756
1.500000+8	2.546738-3	1.600000+8	2.578151-3	1.700000+8	2.536760-3132510	5 1757
1.750000+8	2.505021-3	1.800000+8	2.469226-3	1.900000+8	2.434110-3132510	5 1758
2.000000+8	2.390309-3				132510	5 1759
-7.715788+0-7.715788+0	10020	0	1	104132510	5 1760	
104	2			132510	5 1761	
8.003926+6	0.000000+0	1.100000+7	0.000000+0	1.150000+7	1.017644-9132510	5 1762
1.200000+7	5.058143-7	1.250000+7	1.447713-5	1.300000+7	9.832653-13132510	5 1763
1.350000+7	5.189758-4	1.400000+7	1.580895-3	1.450000+7	4.394791-3132510	5 1764
1.500000+7	8.343053-5	1.600000+7	1.343281-2	1.700000+7	2.026868-2132510	5 1765
1.800000+7	2.889568-2	1.900000+7	3.266391-2	2.000000+7	3.0565729-2132510	5 1766
2.100000+7	3.711122-2	2.200000+7	3.804253-2	2.300000+7	3.805848-2132510	5 1767
2.400000+7	3.580984-2	2.500000+7	3.362595-2	2.600000+7	3.157969-2132510	5 1768
2.700000+7	2.958546-2	2.800000+7	2.766382-2	2.900000+7	2.505920-2132510	5 1769
3.000000+7	2.017117-3	2.300000+7	2.280848-2	3.200000+7	2.165917-2132510	5 1770
3.300000+7	1.986905-4	3.400000+7	1.822573-3	4.304800-7	1.813653-2132510	5 1771
3.500000+7	1.581916-2	3.600000+7	1.372321-3	3.700000+7	1.184197-2132510	5 1772
3.800000+7	1.021940-2	3.900000+7	0.883527-3	3.911300-7	0.852904-2132510	5 1773
4.000000+7	9.716143-3	4.100000+7	7.034377-3	4.200000+7	6.250920-3132510	5 1774
4.300000+7	5.584539-3	4.400000+7	4.989268-3	4.500000+7	4.708622-3132510	5 1775
4.600000+7	4.443506-3	4.679607-4	4.390807-4	4.313061-3	4.104000-3132510	5 1776
4.800000+7	4.404280-3	4.836630-4	4.487229-3	4.900000+7	4.549973-3132510	5 1777
5.000000+7	4.752332-3	5.100000+7	5.985283-3	5.800000+7	5.1788-3132510	5 1778
5.300000+7	6.715877-4	5.400000+7	7.527286-5	5.491607-4	5.1779-3132510	5 1779
5.500000+7	8.430593-5	6.500000+7	9.451069-3	1.058995-2	1.132510	5 17

1.000000+8	6.64681-11	1.050000+8	1.53797-10	1.100000+8	3.30941-10132510	5 1929
1.200000+8	1.088356-9	1.250000+8	2.195192-9	1.300000+8	4.649444-9132510	5 1930
1.400000+8	1.155295-8	1.500000+8	1.893791-8	1.600000+8	2.612419-8132510	5 1931
1.700000+8	3.305955-8	1.750000+8	3.655019-8	1.800000+8	4.011379-8132510	5 1932
1.900000+8	4.722548-8	2.000000+8	5.423387-8		132510	5 1933
-4.779180+1-4.779180+1	11019	0	1	39132510	5 1934	
39	2			132510	5 1935	
4.957694+0	0.000000+0	6.000000+7	0.000000+0	6.100000+7	4.73397-14132510	5 1936
6.200000+7	9.46793-14	6.300000+7	1.42019-13	6.400000+7	1.89359-13132510	5 1937
6.500000+7	2.36698-13	6.600000+7	6.58194-11	6.700000+7	1.31402-10132510	5 1938
6.800000+7	6.6985-10	6.900000+7	2.625657-10	7.000000+7	3.28150-10132510	5 1939
7.200000+7	1.777337-9	7.400000+7	3.226523-9	7.500000+7	3.951117-9132510	5 1940
7.600000+7	5.859647-9	7.800000+7	9.676707-9	8.000000+7	1.349377-8132510	5 1941
8.200000+7	3.437844-8	8.400000+7	7.333662-8	8.500000+7	9.829178-8132510	5 1942
8.600000+7	1.232169-7	8.800000+7	1.858792-7	9.000000+7	2.698947-7132510	5 1943
9.500000+7	4.758113-7	1.000000+8	6.684198-7	1.050000+8	8.500896-7132510	5 1944
1.100000+8	1.036338-6	1.200000+8	1.432240-6	1.250000+8	1.644476-6132510	5 1945
1.300000+8	1.873524-6	1.400000+8	2.336839-6	1.500000+8	2.748184-6132510	5 1946
1.600000+8	3.061459-6	1.700000+8	3.286470-6	1.750000+8	3.349864-6132510	5 1947
1.800000+8	3.357452-6	1.900000+8	3.307007-6	2.000000+8	3.226855-6132510	5 1948
-3.770419+1-3.770419+1	11020	0	1	49132510	5 1949	
49	2			132510	5 1950	
3.911253+7	0.000000+0	5.000000+7	0.000000+0	5.100000+7	5.334286-8132510	5 1951
5.200000+7	1.066857-7	5.300000+7	1.600286-7	5.400000+7	2.133714-7132510	5 1952
5.500000+7	2.667143-7	5.600000+7	5.905757-7	5.700000+7	1.52220-6132510	5 1953
5.800000+7	6.677133-6	5.900000+7	2.145092-6	6.000000+7	2.638669-6132510	5 1954
6.100000+7	3.298144-6	6.200000+7	3.982786-6	6.300000+7	4.749523-6132510	5 1955
6.400000+7	5.582440-6	6.500000+7	6.562449-6	6.600000+7	7.651108-6132510	5 1956
6.700000+7	9.035212-6	6.800000+7	1.051340-5	6.900000+7	1.229517-5132510	5 1957
7.000000+7	1.418020-5	7.200000+7	1.906351-5	7.400000+7	2.488054-5132510	5 1958
7.500000+7	2.780679-5	7.600000+7	3.043569-5	7.800000+7	3.614316-5132510	5 1959
8.000000+7	4.111487-5	8.200000+7	4.789931-5	8.400000+7	5.365743-5132510	5 1960
8.500000+7	6.516954-5	8.600000+7	5.873947-5	8.800000+7	6.348443-5132510	5 1961
9.000000+7	6.659760-5	9.500000+7	7.320399-5	1.000000+8	9.767760-5132510	5 1962
1.050000+8	5.855803-5	1.100000+8	9.293623-5	1.200000+8	1.123760-4132510	5 1963
1.250000+8	1.213679-4	1.300000+8	1.299529-4	1.400000+8	1.419384-4132510	5 1964
1.500000+8	1.430972-4	1.600000+8	1.485623-4	1.700000+8	1.489293-4132510	5 1965
1.750000+8	1.443886-4	1.800000+8	1.396109-4	1.900000+8	1.404968-4132510	5 1966
2.000000+8	1.372064-4				132510	5 1967
-2.2630134-2-2.2630134-1	11021	0	1	82123510	5 1968	
82	2			132510	5 1969	
2.347542+7	0.000000+0	2.400000+7	1.861100-9	2.500000+7	6.559330-9132510	5 1970
2.600000+7	3.147530-8	2.700000+7	1.206430-7	2.800000+7	3.537330-7132510	5 1971
2.900000+7	1.028930-6	3.000000+7	1.918830-6	3.100000+7	2.280514-6132510	5 1972
3.200000+7	6.473412-6	3.300000+7	6.441738-6	3.400000+7	1.666668-5132510	5 1973
3.500000+7	3.753237-5	3.542800+7	4.876296-5	3.600000+7	6.827554-5132510	5 1974
3.700000+7	1.035217-4	3.800000+7	3.398933-4	3.900000+7	1.743329-4132510	5 1975
4.000000+7	2.165742-4	4.100000+7	2.176599-4	4.200000+7	3.366008-4132510	5 1976
4.300000+7	4.172532-4	4.400000+7	5.195132-4	4.500000+7	6.535505-4132510	5 1977
4.600000+7	8.341592-4	4.700000+7	1.036379-3	4.800000+7	3.134872-3132510	5 1978
4.863600+7	1.482202-3	4.900000+7	1.573416-3	5.000000+7	1.857771-3132510	5 1979
5.100000+7	2.033915-3	5.200000+7	2.336948-3	5.300000+7	2.487624-3132510	5 1980
5.400000+7	6.64121-3	5.500000+7	7.282143-3	5.600000+7	2.91645-3132510	5 1981
5.700000+7	3.013094-3	5.800000+7	3.061843-3	5.900000+7	3.136088-3132510	5 1982
6.000000+7	3.67162-3	1.000000+7	3.303646-3	6.200000+7	3.348952-3132510	5 1983
6.300000+7	3.426624-3	6.400000+7	3.470484-3	6.437500+7	3.500046-3132510	5 1984
6.500000+7	3.548943-3	6.527200+7	3.556223-3	6.600000+7	3.579527-3132510	5 1985
6.700000+7	3.577460-3	6.800000+7	3.536152-3	6.900000+7	3.556921-3132510	5 1986
6.978400+7	3.538877-3	7.000000+7	3.533495-3	7.200000+7	3.614144-3132510	5 1987
7.400000+7	3.577885-3	7.500000+7	3.550282-3	7.600000+7	3.512027-3132510	5 1988
7.800000+7	3.260546-3	8.000000+7	3.470995-3	8.200000+7	3.347079-3132510	5 1989
8.400000+7	3.264031-3	8.500000+7	3.261105-3	8.600000+7	3.264679-3132510	5 1990
8.800000+7	3.227120-3	8.937900+7	3.217203-3	9.000000+7	3.213828-3132510	5 1991
9.500000+7	3.300789-3	1.000000+8	3.292404-3	1.050000+8	3.321053-3132510	5 1992
1.100000+8	3.304047-3	1.200000+8	3.346833-3	1.250000+8	3.305449-3132510	5 1993
1.300000+8	3.261852-3	1.350000+8	3.204905-3	1.400000+8	3.147326-3132510	5 1994
1.500000+8	3.095687-3	1.600000+8	3.038135-3	1.700000+8	2.999416-3132510	5 1995
1.750000+8	2.955117-3	1.800000+8	2.900775-3	1.900000+8	2.904786-3132510	5 1996
2.000000+8	2.761741-3				132510	5 1997
-1.881338+1-1.881338+1	11022	0	1	1756132510	5 1998	
1756	2			132510	5 1999	
1.951610+7	0.000000+0	2.460000+7	0.000000+0	2.470000+7	4.000000+6132510	5 2000
2.480000+7	8.000000-6	2.490000+7	1.000000-5	2.500000+7	2.000000+5132510	5 2001
2.510000+7	2.000000-5	2.520000+7	3.000000-5	2.530000+7	3.000000+5132510	5 2002
2.540000+7	4.400000-5	2.550000+7	5.000000-5	2.560000+7	5.000000+5132510	5 2003
2.570000+7	6.000000-5	2.580000+7	7.000000-5	2.590000+7	8.000000+5132510	5 2004
2.600000+7	9.000000-5	2.610000+7	1.000000-4	2.620000+7	1.200000+4132510	5 2005
2.630000+7	1.300000-4	2.640000+7	1.500000-4	2.650000+7	1.700000+4132510	5 2006
2.660000+7	1.800000-4	2.670000+7	2.000000-4	2.680000+7	2.200000+4132510	5 2007
2.690000+7	2.400000-4	2.700000+7	2.600000-4	2.710000+7	2.900000+4132510	5 2008
2.720000+7	3.100000-4	2.730000+7	3.400000-4	2.740000+7	3.600000+4132510	5 2009
2.750000+7	3.900000-4	2.760000+7	4.200000-4	2.770000+7	4.500000+4132510	5 2010
2.780000+7	4.900000-4	2.790000+7	5.200000-4	2.800000+7	5.600000+4132510	5 2011
2.810000+7	6.000000-4	2.820000+7	6.400000-4	2.830000+7	6.900000+4132510	5 2012
2.840000+7	7.400000-4	2.850000+7	7.900000-4	2.860000+7	8.400000+4132510	5 2013
2.870000+7	9.000000-4	2.880000+7	9.600000-4	2.890000+7	10.200000+4132510	5 2014
2.900000+7	1.090000-3	2.910000+7	1.160000-3	2.920000+7	1.240000+4132510	5 2015
2.930000+7	1.320000-3	2.940000+7	1.410000-3	2.950000+7	1.500000+4132510	5 2016
2.960000+7	1.600000-3	2.970000+7	1.710000-3	2.980000+7	1.830000+4132510	5 2017
2.990000+7	1.950000-3	3.000000+7	2.080000-3	3.010000+7	2.220000+4132510	5 2018
3.020000+7	2.370000-3	3.030000+7	2.540000-3	3.040000+7	2.710000+4132510	5 2019
3.050000+7	2.890000-3	3.060000+7	3.080000-3	3.070000+7	3.290000+4132510	5 2020
3.080000+7	3.510000-3	3.090000+7	3.740000-3	3.100000+7	3.900000+4132510	5 2021
3.110000+7	4.240000-3	3.120000+7	4.520000-3	3.130000+7	4.800000+4132510	5 2022
3.140000+7	5.100000-3	3.150000+7	5.400000-3	3.160000+7	5.720000+4132510	5 2023
3.170000+7	6.060000-3	3.180000+7	6.400000-3	3.190000+7	6.750000+4132510	5 2024
3.200000+7	7.100000-3	3.210000+7	7.480000-3	3.220000+7	7.860000+4132510	5 2025
3.230000+7	8.240000-3	3.240000+7	8.630000-3	3.250000+7	9.020000+4132510	5 2026
3.260000+7	9.400000-3	3.270000+7	9.820000-3	3.280000+7	1.020000+5132510	5 2027
3.290000+7	1.063000-2	3.300000+7	1.104000-2	3.110000+7	1.145000+5132510	5 2028
3.320000+7	1.186000-2	3.330000+7	1.227000-2	3.340000+7	1.268000+5132510	5 2029
3.350000+7	1.309000-2	3.360000+7	1.350000-2	3.370000+7	1.390000+5132510	5 2030
3.380000+7	1.431000-2	3.3				

7.880000+7	2.046000-2	7.890000+7	2.045000-2	7.900000+7	2.044000-2132510	5 2181	1.166000+8	1.841000-2	1.167000+8	1.841000-2 1.168000+8	1.840000-2132510	5 2307
7.910000+7	2.043000-2	7.920000+7	2.043000-2	7.930000+7	2.042000-2132510	5 2182	1.169000+8	1.840000-2	1.170000+8	1.839000-2 1.174000+8	1.837000-2132510	5 2308
7.940000+7	2.041000-2	7.950000+7	2.040000-2	7.960000+7	2.039000-2132510	5 2183	1.172000+8	1.838000-2	1.173000+8	1.838000-2 1.174000+8	1.837000-2132510	5 2309
7.970000+7	2.038000-2	7.980000+7	2.038000-2	7.990000+7	2.037000-2132510	5 2184	1.175000+8	1.837000-2	1.176000+8	1.836000-2 1.177000+8	1.836000-2132510	5 2310
8.000000+7	2.036000-2	8.010000+7	2.035000-2	8.020000+7	2.034000-2132510	5 2185	1.178000+8	1.835000-2	1.179000+8	1.835000-2 1.180000+8	1.834000-2132510	5 2311
8.030000+7	2.034000-2	8.040000+7	2.033000-2	8.050000+7	2.032000-2132510	5 2186	1.181000+8	1.834000-2	1.182000+8	1.833000-2 1.183000+8	1.833000-2132510	5 2312
8.060000+7	2.031000-2	8.070000+7	2.031000-2	8.080000+7	2.030000-2132510	5 2187	1.184000+8	1.832000-2	1.185000+8	1.832000-2 1.186000+8	1.831000-2132510	5 2313
8.090000+7	2.029000-2	8.100000+7	2.028000-2	8.110000+7	2.028000-2132510	5 2188	1.187000+8	1.831000-2	1.188000+8	1.830000-2 1.189000+8	1.830000-2132510	5 2314
8.120000+7	2.027000-2	8.130000+7	2.026000-2	8.140000+7	2.026000-2132510	5 2189	1.190000+8	1.829000-2	1.191000+8	1.829000-2 1.192000+8	1.828000-2132510	5 2315
8.150000+7	2.025000-2	8.160000+7	2.024000-2	8.170000+7	2.024000-2132510	5 2190	1.193000+8	1.828000-2	1.194000+8	1.827000-2 1.195000+8	1.827000-2132510	5 2316
8.180000+7	2.023000-2	8.190000+7	2.022000-2	8.200000+7	2.022000-2132510	5 2191	1.196000+8	1.826000-2	1.197000+8	1.826000-2 1.198000+8	1.825000-2132510	5 2317
8.210000+7	2.021000-2	8.220000+7	2.020000-2	8.230000+7	2.020000-2132510	5 2192	1.199000+8	1.825000-2	1.200000+8	1.824000-2 1.201000+8	1.824000-2132510	5 2318
8.240000+7	2.019000-2	8.250000+7	2.018000-2	8.260000+7	2.018000-2132510	5 2193	1.202000+8	1.823000-2	1.203000+8	1.823000-2 1.204000+8	1.822000-2132510	5 2319
8.270000+7	2.017000-2	8.280000+7	2.017000-2	8.290000+7	2.016000-2132510	5 2194	1.205000+8	1.822000-2	1.206000+8	1.821000-2 1.207000+8	1.821000-2132510	5 2320
8.300000+7	2.015000-2	8.310000+7	2.015000-2	8.320000+7	2.014000-2132510	5 2195	1.208000+8	1.820000-2	1.209000+8	1.820000-2 1.210000+8	1.819000-2132510	5 2321
8.330000+7	2.014000-2	8.340000+7	2.013000-2	8.350000+7	2.012000-2132510	5 2196	1.211000+8	1.819000-2	1.212000+8	1.818000-2 1.213000+8	1.818000-2132510	5 2322
8.360000+7	2.012000-2	8.370000+7	2.011000-2	8.380000+7	2.011000-2132510	5 2197	1.214000+8	1.817000-2	1.215000+8	1.817000-2 1.216000+8	1.816000-2132510	5 2323
8.390000+7	2.011000-2	8.400000+7	2.010000-2	8.410000+7	2.009000-2132510	5 2198	1.217000+8	1.816000-2	1.218000+8	1.815000-2 1.219000+8	1.815000-2132510	5 2324
8.420000+7	2.008000-2	8.430000+7	2.008000-2	8.440000+7	2.007000-2132510	5 2199	1.220000+8	1.814000-2	1.221000+8	1.814000-2 1.222000+8	1.813000-2132510	5 2325
8.450000+7	2.007000-2	8.460000+7	2.006000-2	8.470000+7	2.006000-2132510	5 2200	1.223000+8	1.813000-2	1.224000+8	1.812000-2 1.225000+8	1.812000-2132510	5 2326
8.480000+7	2.005000-2	8.490000+7	2.005000-2	8.500000+7	2.004000-2132510	5 2201	1.226000+8	1.811000-2	1.227000+8	1.811000-2 1.228000+8	1.810000-2132510	5 2327
8.510000+7	2.003000-2	8.520000+7	2.003000-2	8.530000+7	2.002000-2132510	5 2202	1.229000+8	1.810000-2	1.230000+8	1.809000-2 1.231000+8	1.809000-2132510	5 2328
8.540000+7	2.002000-2	8.550000+7	2.001000-2	8.560000+7	2.001000-2132510	5 2203	1.232000+8	1.808000-2	1.233000+8	1.808000-2 1.234000+8	1.808000-2132510	5 2329
8.570000+7	2.000000-2	8.580000+7	2.000000-2	8.590000+7	2.000000-2132510	5 2204	1.235000+8	1.807000-2	1.236000+8	1.807000-2 1.237000+8	1.806000-2132510	5 2330
8.600000+7	1.998000-2	8.610000+7	1.998000-2	8.620000+7	1.998000-2132510	5 2205	1.238000+8	1.806000-2	1.239000+8	1.805000-2 1.240000+8	1.805000-2132510	5 2331
8.630000+7	1.997000-2	8.640000+7	1.997000-2	8.650000+7	1.996000-2132510	5 2206	1.241000+8	1.804000-2	1.242000+8	1.804000-2 1.243000+8	1.803000-2132510	5 2332
8.660000+7	1.996000-2	8.670000+7	1.995000-2	8.680000+7	1.995000-2132510	5 2207	1.244000+8	1.803000-2	1.245000+8	1.802000-2 1.246000+8	1.802000-2132510	5 2333
8.690000+7	1.994000-2	8.700000+7	1.994000-2	8.710000+7	1.993000-2132510	5 2208	1.247000+8	1.801000-2	1.248000+8	1.801000-2 1.249000+8	1.800000-2132510	5 2334
8.720000+7	1.993000-2	8.730000+7	1.992000-2	8.740000+7	1.992000-2132510	5 2209	1.250000+8	1.800000-2	1.251000+8	1.799000-2 1.252000+8	1.799000-2132510	5 2335
8.750000+7	1.991000-2	8.760000+7	1.991000-2	8.770000+7	1.990000-2132510	5 2210	1.253000+8	1.799000-2	1.254000+8	1.798000-2 1.255000+8	1.798000-2132510	5 2336
8.780000+7	1.990000-2	8.790000+7	1.989000-2	8.800000+7	1.989000-2132510	5 2211	1.256000+8	1.797000-2	1.257000+8	1.797000-2 1.258000+8	1.796000-2132510	5 2337
8.810000+7	1.988000-2	8.820000+7	1.988000-2	8.830000+7	1.987000-2132510	5 2212	1.259000+8	1.796000-2	1.260000+8	1.795000-2 1.261000+8	1.795000-2132510	5 2338
8.840000+7	1.987000-2	8.850000+7	1.986000-2	8.860000+7	1.986000-2132510	5 2213	1.262000+8	1.794000-2	1.263000+8	1.794000-2 1.264000+8	1.793000-2132510	5 2339
8.870000+7	1.985000-2	8.880000+7	1.985000-2	8.890000+7	1.984000-2132510	5 2214	1.265000+8	1.793000-2	1.266000+8	1.793000-2 1.267000+8	1.792000-2132510	5 2340
8.900000+7	1.984000-2	8.910000+7	1.983000-2	8.920000+7	1.983000-2132510	5 2215	1.268000+8	1.792000-2	1.269000+8	1.791000-2 1.270000+8	1.791000-2132510	5 2341
8.930000+7	1.982000-2	8.940000+7	1.982000-2	8.950000+7	1.981000-2132510	5 2216	1.271000+8	1.790000-2	1.272000+8	1.789000-2 1.273000+8	1.789000-2132510	5 2342
8.960000+7	1.981000-2	8.970000+7	1.980000-2	8.980000+7	1.980000-2132510	5 2217	1.274000+8	1.789000-2	1.275000+8	1.787000-2 1.276000+8	1.788000-2132510	5 2343
8.990000+7	1.979000-2	9.000000+7	1.979000-2	9.010000+7	1.978000-2132510	5 2218	1.277000+8	1.787000-2	1.278000+8	1.787000-2 1.279000+8	1.787000-2132510	5 2344
9.020000+7	1.978000-2	9.030000+7	1.977000-2	9.040000+7	1.977000-2132510	5 2219	1.280000+8	1.786000-2	1.281000+8	1.786000-2 1.282000+8	1.785000-2132510	5 2345
9.050000+7	1.976000-2	9.060000+7	1.975000-2	9.070000+7	1.975000-2132510	5 2220	1.283000+8	1.785000-2	1.284000+8	1.784000-2 1.285000+8	1.784000-2132510	5 2346
9.080000+7	1.975000-2	9.090000+7	1.974000-2	9.100000+7	1.974000-2132510	5 2221	1.286000+8	1.783000-2	1.287000+8	1.783000-2 1.288000+8	1.783000-2132510	5 2347
9.110000+7	1.973000-2	9.120000+7	1.973000-2	9.130000+7	1.973000-2132510	5 2222	1.289000+8	1.782000-2	1.290000+8	1.782000-2 1.291000+8	1.781000-2132510	5 2348
9.140000+7	1.972000-2	9.150000+7	1.972000-2	9.160000+7	1.971000-2132510	5 2223	1.292000+8	1.781000-2	1.293000+8	1.780000-2 1.294000+8	1.780000-2132510	5 2349
9.170000+7	1.971000-2	9.180000+7	1.970000-2	9.190000+7	1.970000-2132510	5 2224	1.295000+8	1.779000-2	1.296000+8	1.779000-2 1.297000+8	1.779000-2132510	5 2350
9.200000+7	1.969000-2	9.210000+7	1.969000-2	9.220000+7	1.969000-2132510	5 2225	1.302000+8	1.778000-2	1.302000+8	1.778000-2 1.303000+8	1.776000-2132510	5 2352
9.230000+7	1.968000-2	9.240000+7	1.967000-2	9.250000+7	1.967000-2132510	5 2226	1.304000+8	1.775000-2	1.305000+8	1.775000-2 1.306000+8	1.775000-2132510	5 2353
9.260000+7	1.966000-2	9.270000+7	1.965000-2	9.280000+7	1.965000-2132510	5 2227	1.307000+8	1.774000-2	1.308000+8	1.774000-2 1.309000+8	1.773000-2132510	5 2354
9.320000+7	1.963000-2	9.330000+7	1.963000-2	9.340000+7	1.962000-2132510	5 2228	1.311000+8	1.773000-2	1.311000+8	1.772000-2 1.312000+8	1.772000-2132510	5 2355
9.350000+7	1.962000-2	9.360000+7	1.961000-2	9.370000+7	1.961000-2132510	5 2229	1.313000+8	1.772000-2	1.314000+8	1.771000-2 1.315000+8	1.772000-2132510	5 2356
9.380000+7	1.960000-2	9.390000+7	1.960000-2	9.400000+7	1.959000-2132510	5 2231	1.316000+8	1.770000-2	1.317000+8	1.769000-2 1.318000+8	1.769000-2132510	5 2357
9.410000+7	1.959000-2	9.420000+7</										

1.544000+8	1.687000-2	1.545000+8	1.687000-2	1.546000+8	1.686000-2132510	5 2433	1.922000+8	1.598000-2	1.923000+8	1.598000-2	1.924000+8	1.598000-2132510	5 2559	
1.547000+8	1.686000-2	1.548000+8	1.686000-2	1.549000+8	1.685000-2132510	5 2434	1.925000+8	1.598000-2	1.926000+8	1.597000-2	1.927000+8	1.597000-2132510	5 2560	
1.550000+8	1.685000-2	1.551000+8	1.685000-2	1.552000+8	1.684000-2132510	5 2435	1.928000+8	1.597000-2	1.929000+8	1.597000-2	1.930000+8	1.597000-2132510	5 2561	
1.553000+8	1.684000-2	1.554000+8	1.684000-2	1.555000+8	1.683000-2132510	5 2436	1.931000+8	1.597000-2	1.932000+8	1.596000-2	1.933000+8	1.596000-2132510	5 2562	
1.556000+8	1.683000-2	1.557000+8	1.683000-2	1.558000+8	1.683000-2132510	5 2437	1.934000+8	1.596000-2	1.935000+8	1.596000-2	1.936000+8	1.596000-2132510	5 2563	
1.559000+8	1.682000-2	1.560000+8	1.682000-2	1.561000+8	1.682000-2132510	5 2438	1.937000+8	1.596000-2	1.938000+8	1.595000-2	1.939000+8	1.595000-2132510	5 2564	
1.562000+8	1.681000-2	1.563000+8	1.681000-2	1.564000+8	1.681000-2132510	5 2439	1.940000+8	1.595000-2	1.941000+8	1.595000-2	1.942000+8	1.595000-2132510	5 2565	
1.565000+8	1.680000-2	1.566000+8	1.680000-2	1.567000+8	1.680000-2132510	5 2440	1.943000+8	1.594000-2	1.944000+8	1.594000-2	1.945000+8	1.594000-2132510	5 2566	
1.568000+8	1.680000-2	1.569000+8	1.679000-2	1.570000+8	1.679000-2132510	5 2441	1.946000+8	1.594000-2	1.947000+8	1.594000-2	1.948000+8	1.594000-2132510	5 2567	
1.571000+8	1.679000-2	1.572000+8	1.678000-2	1.573000+8	1.678000-2132510	5 2442	1.949000+8	1.593000-2	1.950000+8	1.593000-2	1.951000+8	1.593000-2132510	5 2568	
1.574000+8	1.678000-2	1.575000+8	1.678000-2	1.576000+8	1.677000-2132510	5 2443	1.952000+8	1.593000-2	1.953000+8	1.593000-2	1.954000+8	1.593000-2132510	5 2569	
1.577000+8	1.677000-2	1.578000+8	1.677000-2	1.579000+8	1.676000-2132510	5 2444	1.955000+8	1.592000-2	1.956000+8	1.592000-2	1.957000+8	1.592000-2132510	5 2570	
1.580000+8	1.676000-2	1.581000+8	1.676000-2	1.582000+8	1.676000-2132510	5 2445	1.958000+8	1.592000-2	1.959000+8	1.592000-2	1.960000+8	1.592000-2132510	5 2571	
1.583000+8	1.675000-2	1.584000+8	1.675000-2	1.585000+8	1.675000-2132510	5 2446	1.961000+8	1.591000-2	1.962000+8	1.591000-2	1.963000+8	1.591000-2132510	5 2572	
1.586000+8	1.674000-2	1.587000+8	1.674000-2	1.588000+8	1.674000-2132510	5 2447	1.964000+8	1.591000-2	1.965000+8	1.591000-2	1.966000+8	1.591000-2132510	5 2573	
1.589000+8	1.674000-2	1.590000+8	1.673000-2	1.591000+8	1.673000-2132510	5 2448	1.967000+8	1.590000-2	1.969000+8	1.590000-2	1.970000+8	1.590000-2132510	5 2574	
1.592000+8	1.673000-2	1.593000+8	1.672000-2	1.594000+8	1.672000-2132510	5 2449	1.970000+8	1.590000-2	1.971000+8	1.590000-2	1.972000+8	1.590000-2132510	5 2575	
1.595000+8	1.672000-2	1.596000+8	1.672000-2	1.597000+8	1.671000-2132510	5 2450	1.973000+8	1.589000-2	1.974000+8	1.589000-2	1.975000+8	1.589000-2132510	5 2576	
1.598000+8	1.671000-2	1.599000+8	1.671000-2	1.600000+8	1.67000-2132510	5 2451	1.976000+8	1.589000-2	1.977000+8	1.589000-2	1.978000+8	1.589000-2132510	5 2577	
1.601000+8	1.67000-2	1.602000+8	1.67000-2	1.603000+8	1.67000-2132510	5 2452	1.979000+8	1.588000-2	1.98000+8	1.588000-2	1.981000+8	1.588000-2132510	5 2578	
1.604000+8	1.669000-2	1.605000+8	1.669000-2	1.606000+8	1.669000-2132510	5 2453	1.982000+8	1.588000-2	1.983000+8	1.588000-2	1.984000+8	1.588000-2132510	5 2579	
1.607000+8	1.668000-2	1.608000+8	1.668000-2	1.609000+8	1.668000-2132510	5 2454	1.985000+8	1.587000-2	1.986000+8	1.587000-2	1.987000+8	1.587000-2132510	5 2580	
1.611000+8	1.668000-2	1.611000+8	1.667000-2	1.612000+8	1.667000-2132510	5 2455	1.991000+8	1.587000-2	1.992000+8	1.586000-2	1.993000+8	1.586000-2132510	5 2582	
1.616000+8	1.666000-2	1.617000+8	1.666000-2	1.618000+8	1.665000-2132510	5 2457	1.994000+8	1.586000-2	1.995000+8	1.586000-2	1.996000+8	1.586000-2132510	5 2583	
1.621000+8	1.665000-2	1.620000+8	1.665000-2	1.621000+8	1.665000-2132510	5 2458	1.997000+8	1.586000-2	1.998000+8	1.585000-2	1.999000+8	1.585000-2132510	5 2584	
1.626000+8	1.664000-2	1.623000+8	1.664000-2	1.624000+8	1.664000-2132510	5 2459	2.000000+8	1.585000-2	1.999000+8	1.585000-2	2.000000+8	1.585000-2132510	5 2585	
1.625000+8	1.663000-2	1.626000+8	1.663000-2	1.627000+8	1.663000-2132510	5 2460	-1.009192+1-1.009192+1	11023	0	1	88132510	5 2586		
1.628000+8	1.663000-2	1.629000+8	1.662000-2	1.630000+8	1.662000-2132510	5 2461	88	2			1232510	5 2587		
1.631000+8	1.662000-2	1.632000+8	1.662000-2	1.633000+8	1.661000-2132510	5 2462	1.046888+7	0.000000+0	1.300000+7	0.000000+0	1.350000+7	5.546319-6132510	5 2588	
1.634000+8	1.661000-2	1.635000+8	1.661000-2	1.636000+8	1.661000-2132510	5 2463	1.400000+7	4.710905-5	1.450000+7	3.157387-4	1.500000+7	1.081963-6132510	5 2589	
1.637000+8	1.660000-2	1.638000+8	1.660000-2	1.639000+8	1.660000-2132510	5 2464	1.600000+7	5.774280-3	1.700000+7	1.596040-2	1.800000+7	3.011613-6132510	5 2590	
1.640000+8	1.659000-2	1.641000+8	1.659000-2	1.642000+8	1.659000-2132510	5 2465	1.900000+7	4.518853-2	2.000000+7	5.604956-7	2.100000+7	6.635353-6132510	5 2591	
1.643000+8	1.659000-2	1.644000+8	1.658000-2	1.645000+8	1.658000-2132510	5 2466	2.200000+7	4.711779-2	2.300000+7	7.914571-2	2.400000+7	8.210581-6132510	5 2592	
1.646000+8	1.658000-2	1.647000+8	1.658000-2	1.648000+8	1.657000-2132510	5 2467	2.500000+7	8.333841-2	2.600000+7	8.260896-7	2.700000+7	8.266179-6132510	5 2593	
1.649000+8	1.657000-2	1.656000+8	1.657000-2	1.658000+8	1.657000-2132510	5 2468	2.800000+7	8.189114-2	2.900000+7	7.980139-3	2.000000+7	7.728153-6132510	5 2594	
1.652000+8	1.656000-2	1.653000+8	1.656000-2	1.654000+8	1.656000-2132510	5 2469	3.100000+7	7.297602-2	2.300000+7	6.922900-7	3.000000+7	6.477491-6132510	5 2595	
1.655000+8	1.656000-2	1.656000+8	1.655000-2	1.657000+8	1.655000-2132510	5 2470	3.400000+7	5.974922-3	2.350000+7	5.549020-2	3.000000+7	5.152938-6132510	5 2596	
1.658000+8	1.655000-2	1.659000+8	1.654000-2	1.660000+8	1.654000-2132510	5 2471	3.700000+7	4.793838-2	3.800000+7	4.486346-2	3.900000+7	4.193113-6132510	5 2597	
1.661000+8	1.654000-2	1.662000+8	1.654000-2	1.663000+8	1.653000-2132510	5 2472	4.000000+7	3.896975-2	4.100000+7	3.440000+7	3.440000+7	3.440000+7-1232510	5 2598	
1.664000+8	1.653000-2	1.665000+8	1.653000-2	1.666000+8	1.653000-2132510	5 2473	4.300000+7	3.273124-2	4.400000+7	3.102155-2	4.500000+7	4.292192-6132510	5 2599	
1.667000+8	1.652000-2	1.668000+8	1.652000-2	1.669000+8	1.652000-2132510	5 2474	4.600000+7	2.822455-2	4.700000+7	2.723036-2	4.800000+7	2.633824-6132510	5 2600	
1.670000+8	1.652000-2	1.671000+8	1.651000-2	1.672000+8	1.651000-2132510	5 2475	4.900000+7	2.565633-2	5.000000+7	5.204297-2	5.100000+7	2.485698-6132510	5 2601	
1.673000+8	1.651000-2	1.674000+8	1.651000-2	1.675000+8	1.650000-2132510	5 2476	5.200000+7	2.484620-2	5.300000+7	5.240000+7	5.400000+7	2.494654-6132510	5 2602	
1.676000+8	1.650000-2	1.677000+8	1.650000-2	1.678000+8	1.650000-2132510	5 2477	5.500000+7	2.536255-2	5.600000+7	5.580000+7	5.700000+7	2.646574-6132510	5 2603	
1.679000+8	1.649000-2	1.680000+8	1.649000-2	1.681000+8	1.648000-2132510	5 2478	5.800000+7	2.717010-2	5.900000+7	5.800000+7	2.800079-2	6.000000+7	2.857040-6132510	5 2604
1.682000+8	1.649000-2	1.683000+8	1.648000-2	1.684000+8	1.648000-2132510	5 2479	6.100000+7	2.958852-2	6.200000+7	3.122378-2	4.200000+7	5.260000+7	3.212278-6132510	5 2605
1.685000+8	1.648000-2	1.686000+8	1.648000-2	1.687000+8	1.647000-2132510	5 2480	6.400000+7	3.191265-2	6.500000+7	3.272826-2	4.600000+7	5.327868-6132510	5 2606	
1.688000+8	1.647000-2	1.689000+8	1.647000-2	1.690000+8	1.647000-2132510	5 2481	6.700000+7	3.383157-2	6.800000+7	3.435564-2	4.900000+7	5.307849-6132510	5 2607	
1.691000+8	1.646000-2	1.692000+8	1.646000-2	1.693000+8	1.646000-2132510	5 2482	7.000000+7	3.531957-2	7.200000+7	3.602262-2	4.700000+7	5.400000+7	3.706180-6132510	5 2608
1.694000+8	1.646000-2	1.695000+8	1.645000-2	1.696000+8	1.645000-2132510	5 2483	7.50							

4.110000+7	2.800000-3	4.420000+7	2.840000-3	4.430000+7	2.880000-3132510	5 2685
4.440000+7	2.920000-3	4.450000+7	2.970000-3	4.460000+7	3.010000-3132510	5 2686
4.470000+7	3.060000-3	4.480000+7	3.100000-3	4.490000+7	3.150000-3132510	5 2687
4.500000+7	3.190000-3	4.510000+7	3.240000-3	4.520000+7	3.290000-3132510	5 2688
4.530000+7	3.330000-3	4.540000+7	3.380000-3	4.550000+7	3.430000-3132510	5 2689
4.560000+7	3.470000-3	4.570000+7	3.520000-3	4.580000+7	3.570000-3132510	5 2690
4.590000+7	3.620000-3	4.600000+7	3.670000-3	4.610000+7	3.720000-3132510	5 2691
4.620000+7	3.770000-3	4.630000+7	3.820000-3	4.640000+7	3.870000-3132510	5 2692
4.650000+7	3.920000-3	4.660000+7	3.980000-3	4.670000+7	4.030000-3132510	5 2693
4.680000+7	4.080000-3	4.690000+7	4.130000-3	4.700000+7	4.190000-3132510	5 2694
4.710000+7	4.240000-3	4.730000+7	4.290000-3	4.730000+7	4.350000-3132510	5 2695
4.740000+7	4.400000-3	4.750000+7	4.460000-3	4.760000+7	4.510000-3132510	5 2696
4.770000+7	4.570000-3	4.780000+7	4.620000-3	4.790000+7	4.680000-3132510	5 2697
4.800000+7	4.730000-3	4.810000+7	4.790000-3	4.820000+7	4.850000-3132510	5 2698
4.830000+7	4.900000-3	4.840000+7	4.960000-3	4.850000+7	5.020000-3132510	5 2699
4.860000+7	5.070000-3	4.870000+7	5.130000-3	4.880000+7	5.190000-3132510	5 2700
4.890000+7	5.250000-3	4.900000+7	5.310000-3	4.910000+7	5.360000-3132510	5 2701
4.920000+7	5.420000-3	4.930000+7	5.480000-3	4.940000+7	5.540000-3132510	5 2702
4.950000+7	5.600000-3	4.960000+7	5.660000-3	4.970000+7	5.710000-3132510	5 2703
4.980000+7	5.770000-3	4.990000+7	5.830000-3	5.000000+7	5.890000-3132510	5 2704
5.010000+7	5.950000-3	5.020000+7	6.010000-3	5.030000+7	6.070000-3132510	5 2705
5.040000+7	6.130000-3	5.050000+7	6.190000-3	5.060000+7	6.240000-3132510	5 2706
5.070000+7	6.300000-3	5.080000+7	6.360000-3	5.090000+7	6.420000-3132510	5 2707
5.100000+7	6.480000-3	5.110000+7	6.540000-3	5.120000+7	6.600000-3132510	5 2708
5.130000+7	6.650000-3	5.140000+7	6.720000-3	5.150000+7	6.770000-3132510	5 2709
5.160000+7	6.830000-3	5.170000+7	6.890000-3	5.180000+7	6.950000-3132510	5 2710
5.190000+7	7.010000-3	5.200000+7	7.060000-3	5.210000+7	7.120000-3132510	5 2711
5.220000+7	7.180000-3	5.230000+7	7.240000-3	5.240000+7	7.290000-3132510	5 2712
5.250000+7	7.350000-3	5.260000+7	7.410000-3	5.270000+7	7.460000-3132510	5 2713
5.280000+7	7.520000-3	5.290000+7	7.580000-3	5.300000+7	7.630000-3132510	5 2714
5.310000+7	7.690000-3	5.320000+7	7.740000-3	5.330000+7	7.800000-3132510	5 2715
5.340000+7	7.850000-3	5.350000+7	7.910000-3	5.360000+7	7.960000-3132510	5 2716
5.370000+7	8.020000-3	5.380000+7	8.070000-3	5.390000+7	8.120000-3132510	5 2717
5.400000+7	8.180000-3	5.410000+7	8.230000-3	5.420000+7	8.280000-3132510	5 2718
5.430000+7	8.330000-3	5.440000+7	8.380000-3	5.450000+7	8.440000-3132510	5 2719
5.460000+7	8.490000-3	5.470000+7	8.540000-3	5.480000+7	8.590000-3132510	5 2720
5.490000+7	8.640000-3	5.500000+7	8.690000-3	5.510000+7	8.730000-3132510	5 2721
5.520000+7	8.780000-3	5.530000+7	8.830000-3	5.540000+7	8.880000-3132510	5 2722
5.550000+7	8.920000-3	5.560000+7	8.970000-3	5.570000+7	9.020000-3132510	5 2723
5.580000+7	9.060000-3	5.590000+7	9.110000-3	5.600000+7	9.150000-3132510	5 2724
5.610000+7	9.200000-3	5.620000+7	9.240000-3	5.630000+7	9.280000-3132510	5 2725
5.640000+7	9.330000-3	5.650000+7	9.370000-3	5.660000+7	9.410000-3132510	5 2726
5.670000+7	9.450000-3	5.680000+7	9.490000-3	5.690000+7	9.540000-3132510	5 2727
5.700000+7	9.580000-3	5.710000+7	9.620000-3	5.720000+7	9.650000-3132510	5 2728
5.730000+7	9.690000-3	5.740000+7	9.730000-3	5.750000+7	9.770000-3132510	5 2729
5.760000+7	9.810000-3	5.770000+7	9.840000-3	5.780000+7	9.880000-3132510	5 2730
5.790000+7	9.920000-3	5.800000+7	9.950000-3	5.810000+7	9.990000-3132510	5 2731
5.820000+7	1.002000-2	5.830000+7	1.006000-2	5.840000+7	1.009000-3132510	5 2732
5.850000+7	1.013000-2	5.860000+7	1.016000-2	5.870000+7	1.019000-3132510	5 2733
5.880000+7	1.022000-2	5.890000+7	1.026000-2	5.900000+7	1.029000-3132510	5 2734
5.910000+7	1.032000-2	5.920000+7	1.035000-2	5.930000+7	1.038000-3132510	5 2735
5.940000+7	1.041000-2	5.950000+7	1.044000-2	5.960000+7	1.046000-3132510	5 2736
5.970000+7	1.049000-2	5.980000+7	1.052000-2	5.990000+7	1.055000-3132510	5 2737
6.000000+7	1.057000-2	6.010000+7	1.060000-2	6.020000+7	1.063000-3132510	5 2738
6.030000+7	1.065000-2	6.040000+7	1.068000-2	6.050000+7	1.070000-3132510	5 2739
6.060000+7	1.070200-2	6.070000+7	1.075000-2	6.080000+7	1.077000-3132510	5 2740
6.090000+7	1.079000-2	6.100000+7	1.082000-2	6.110000+7	1.084000-3132510	5 2741
6.120000+7	1.086000-2	6.130000+7	1.088000-2	6.140000+7	1.090000-3132510	5 2742
6.150000+7	1.092000-2	6.160000+7	1.094000-2	6.170000+7	1.096000-3132510	5 2743
6.180000+7	1.098000-2	6.190000+7	1.100000-2	6.200000+7	1.102000-3132510	5 2744
6.210000+7	1.103000-2	6.220000+7	1.105000-2	6.230000+7	1.107000-3132510	5 2745
6.240000+7	1.109000-2	6.250000+7	1.110000-2	6.260000+7	1.112000-3132510	5 2746
6.270000+7	1.113000-2	6.280000+7	1.115000-2	6.290000+7	1.116000-3132510	5 2747
6.300000+7	1.118000-2	6.310000+7	1.119000-2	6.320000+7	1.121000-3132510	5 2748
6.330000+7	1.122000-2	6.340000+7	1.123000-2	6.350000+7	1.125000-3132510	5 2749
6.360000+7	1.126000-2	6.370000+7	1.127000-2	6.380000+7	1.129000-3132510	5 2750
6.390000+7	1.130000-2	6.400000+7	1.131000-2	6.410000+7	1.132000-3132510	5 2751
6.420000+7	1.133000-2	6.430000+7	1.134000-2	6.440000+7	1.135000-3132510	5 2752
6.450000+7	1.136000-2	6.460000+7	1.137000-2	6.470000+7	1.138000-3132510	5 2753
6.480000+7	1.139000-2	6.490000+7	1.140000-2	6.500000+7	1.141000-3132510	5 2754
6.510000+7	1.142000-2	6.520000+7	1.143000-2	6.530000+7	1.143000-3132510	5 2755
6.540000+7	1.144000-2	6.550000+7	1.145000-2	6.560000+7	1.146000-3132510	5 2756
6.570000+7	1.147000-2	6.580000+7	1.147000-2	6.590000+7	1.148000-3132510	5 2757
6.600000+7	1.149000-2	6.610000+7	1.149000-2	6.620000+7	1.150000-3132510	5 2758
6.630000+7	1.150000-2	6.640000+7	1.151000-2	6.650000+7	1.152000-3132510	5 2759
6.660000+7	1.152000-2	6.670000+7	1.153000-2	6.680000+7	1.153000-3132510	5 2760
6.690000+7	1.154000-2	6.700000+7	1.154000-2	6.710000+7	1.154000-3132510	5 2761
6.720000+7	1.155000-2	6.730000+7	1.155000-2	6.740000+7	1.156000-3132510	5 2762
6.750000+7	1.156000-2	6.760000+7	1.156000-2	6.770000+7	1.157000-3132510	5 2763
6.780000+7	1.157000-2	6.790000+7	1.157000-2	6.800000+7	1.158000-3132510	5 2764
6.810000+7	1.158000-2	6.820000+7	1.158000-2	6.830000+7	1.159000-3132510	5 2765
6.840000+7	1.159000-2	6.850000+7	1.159000-2	6.860000+7	1.159000-3132510	5 2766
6.870000+7	1.159000-2	6.880000+7	1.159000-2	6.890000+7	1.160000-3132510	5 2767
6.900000+7	1.160000-2	6.910000+7	1.160000-2	6.920000+7	1.160000-3132510	5 2768
6.930000+7	1.160000-2	6.940000+7	1.160000-2	6.950000+7	1.160000-3132510	5 2769
6.960000+7	1.160000-2	6.970000+7	1.161000-2	6.980000+7	1.161000-3132510	5 2770
6.990000+7	1.161000-2	6.100000+7	1.161000-2	7.010000+7	1.161000-3132510	5 2771
7.020000+7	1.161000-2	7.030000+7	1.161000-2	7.040000+7	1.161000-3132510	5 2772
7.050000+7	1.161000-2	7.060000+7	1.161000-2	7.070000+7	1.161000-3132510	5 2773
7.080000+7	1.161000-2	7.090000+7	1.161000-2	7.100000+7	1.161000-3132510	5 2774
7.110000+7	1.161000-2	7.120000+7	1.161000-2	7.130000+7	1.160000-3132510	5 2775
7.140000+7	1.160000-2	7.150000+7	1.160000-2	7.160000+7	1.160000-3132510	5 2776
7.170000+7	1.160000-2	7.180000+7	1.160000-2	7.190000+7	1.160000-3132510	5 2777
7.200000+7	1.160000-2	7.210000+7	1.160000-2	7.220000+7	1.160000-3132510	5 2778
7.230000+7	1.160000-2	7.240000+7	1.159000-2	7.250000+7	1.159000-3132510	5 2779
7.260000+7	1.159000-2	7.270000+7	1.159000-2	7.280000+7	1.159000-3132510	5 2780
7.290000+7	1.159000-2	7.300000+7	1.158000-2	7.310000+7	1.158000-3132510	5 2781
7.320000+7	1.158000-2	7.330000+7	1.158000-2	7.340000+7	1.158000-3132	

1.900000+ 8	2.337696- 4	2.000000+ 8	1.158875- 4	132510	5	3189
1.594173- 1	1.594173- 1	13025	0	1	81132510	5 3190
81	2				132510	5 3191
1.653719+ 0	0.000000+ 1	1.700000+ 7	5.887386- 7	1.800000+ 7	1.227945- 5	5 3192
1.900000+ 7	8.771272- 5	2.000000+ 7	2.143831- 4	2.000000+ 7	3.591286- 4	5 3193
2.000000+ 7	3.877604- 2	4.200000+ 7	3.925368- 4	2.400000+ 7	3.666410- 4	5 3194
2.500000+ 7	3.118446- 4	2.600000+ 7	3.542676- 4	2.700000+ 7	4.07262- 4	5 3195
2.800000+ 7	1.148462- 3	3.000000+ 7	2.986838- 3	3.100000+ 7	4.329058- 3	5 3196
3.200000+ 7	5.820404- 3	3.300000+ 7	7.353712- 3	3.400000+ 7	8.764098- 3	5 3197
3.500000+ 7	9.984052- 3	3.600000+ 7	1.095350- 2	3.700000+ 7	1.176670- 2	5 3198
3.800000+ 7	1.237294- 2	3.900000+ 7	1.261876- 2	4.000000+ 7	1.288182- 2	5 3199
4.100000+ 7	1.292506- 4	4.200000+ 7	1.282082- 4	4.300000+ 7	1.268778- 2	5 3200
4.400000+ 7	1.253326- 4	4.500000+ 7	1.235412- 4	4.600000+ 7	1.212666- 2	5 3201
4.700000+ 7	1.186534- 2	4.800000+ 7	1.162484- 2	4.900000+ 7	1.141204- 2	5 3202
5.000000+ 7	1.119902- 5	5.100000+ 7	1.090956- 5	5.200000+ 7	1.067966- 2	5 3203
5.300000+ 7	1.044790- 5	5.400000+ 7	1.022282- 2	5.500000+ 7	9.987494- 3	5 3204
5.600000+ 7	9.808220- 3	5.700000+ 7	9.625148- 3	5.800000+ 7	9.436296- 3	5 3205
5.900000+ 7	9.821240- 3	6.000000+ 7	9.148270- 3	6.100000+ 7	0.008228- 3	5 3206
6.200000+ 7	8.905030- 3	6.300000+ 7	8.767046- 3	6.400000+ 7	8.671316- 3	5 3207
6.500000+ 7	8.545728- 3	6.600000+ 7	8.414324- 3	6.700000+ 7	8.281720- 3	5 3208
6.800000+ 7	8.160704- 3	6.900000+ 7	8.012640- 3	7.000000+ 7	9.09616- 3	5 3209
7.200000+ 7	7.727812- 3	7.400000+ 7	7.563572- 3	7.500000+ 7	7.478132- 3	5 3210
7.600000+ 7	7.387972- 7	7.800000+ 7	7.223918- 3	8.000000+ 7	7.066980- 3	5 3211
8.200000+ 7	6.926084- 3	8.400000+ 7	6.808590- 3	8.500000+ 7	6.748137- 3	5 3212
8.600000+ 7	6.686364- 3	8.800000+ 7	6.573080- 3	9.000000+ 7	6.471894- 3	5 3213
9.500000+ 7	6.160226- 3	1.000000+ 5	5.90820- 3	1.050000+ 8	5.611324- 3	5 3214
1.100000+ 8	5.405918- 3	1.200000+ 5	0.070959- 3	1.250000+ 8	4.833308- 3	5 3215
1.300000+ 8	4.669644- 3	1.400000+ 8	4.347988- 3	1.500000+ 8	4.041828- 3	5 3216
1.600000+ 8	3.864974- 3	1.700000+ 8	3.575956- 3	1.750000+ 8	3.470754- 3	5 3217
1.800000+ 8	3.370872- 3	1.900000+ 8	3.224670- 3	2.000000+ 8	3.048704- 3	5 3218
-1.083347+ 1	-1.083347+ 1	13026	0	1	94132510	5 3219
94	2				132510	5 3220
1.123813+ 0	0.000000+ 0	1.150000+ 7	3.940305- 8	1.200000+ 7	2.232394- 6	5 3221
1.250000+ 7	1.396183- 4	1.300000+ 7	1.101067- 3	1.350000+ 7	3.826351- 3	5 3222
1.400000+ 7	7.189152- 3	1.450000+ 7	1.404949- 2	1.500000+ 7	2.718039- 2	5 3223
1.600000+ 7	5.573634- 2	1.610000+ 7	7.810000+ 2	1.700000+ 7	1.004813- 1	5 3224
1.800000+ 7	1.240000- 1	1.900000+ 7	1.458841- 1	2.000000+ 7	1.653957- 1	5 3225
2.100000+ 7	1.735335- 3	2.200000+ 7	1.813190- 1	2.300000+ 7	1.817984- 11	5 3226
2.400000+ 7	1.822859- 3	2.500000+ 7	1.801195- 1	2.600000+ 7	1.779530- 11	5 3227
2.700000+ 7	7.727099- 3	2.800000+ 7	1.631663- 1	3.000000+ 7	1.395559- 11	5 3228
3.100000+ 7	1.337427- 3	3.200000+ 7	1.279295- 3	3.300000+ 7	1.228379- 11	5 3229
3.400000+ 7	1.184679- 3	3.500000+ 7	1.140979- 3	3.600000+ 7	1.097279- 11	5 3230
3.700000+ 7	1.053579- 3	3.800000+ 7	1.019366- 3	3.900000+ 7	9.946392- 11	5 3231
4.000000+ 7	9.691626- 2	4.200000+ 7	9.451860- 2	4.200000+ 7	9.204593- 2	5 3232
4.300000+ 7	8.967379- 2	4.400000+ 7	8.740217- 2	4.500000+ 7	8.510356- 2	5 3233
4.600000+ 7	8.285894- 2	4.700000+ 7	8.058732- 2	4.800000+ 7	7.898259- 2	5 3234
4.900000+ 7	7.804476- 2	5.000000+ 7	7.710693- 2	5.100000+ 7	7.616910- 2	5 3235
5.200000+ 7	7.523127- 2	5.300000+ 7	7.429267- 2	5.400000+ 7	7.335331- 2	5 3236
5.500000+ 7	7.241395- 2	5.600000+ 7	7.111194- 2	5.700000+ 7	7.071017- 2	5 3237
5.800000+ 7	7.030902- 2	5.900000+ 7	6.962540- 2	6.000000+ 7	6.928633- 2	5 3238
6.100000+ 7	6.874186- 2	6.200000+ 7	6.820000- 2	6.300000+ 7	6.765832- 2	5 3239
6.400000+ 7	6.701461- 2	6.500000+ 7	6.626897- 2	6.600000+ 7	6.52333- 2	5 3240
6.700000+ 7	6.477769- 3	6.800000+ 7	6.403205- 2	6.900000+ 7	6.346820- 2	5 3241
7.000000+ 7	6.290435- 2	7.200000+ 7	6.177664- 2	7.400000+ 7	6.085066- 2	5 3242
7.500000+ 7	6.044819- 2	7.600000+ 7	6.040547- 2	7.800000+ 7	5.924959- 2	5 3243
8.000000+ 7	5.846812- 2	8.200000+ 7	5.768665- 2	8.400000+ 7	5.768741- 2	5 3244
8.500000+ 7	5.629663- 2	8.600000+ 7	5.580909- 2	8.800000+ 7	5.670461- 2	5 3245
9.000000+ 7	5.358907- 2	9.400000+ 7	5.119967- 2	9.500000+ 7	5.056729- 2	5 3246
9.800000+ 7	4.869801- 2	1.000000+ 7	4.760502- 2	1.050000+ 8	5.432420- 2	5 3247
1.000000+ 8	4.112572- 1	1.500000+ 8	4.386119- 2	1.200000+ 8	4.387441- 2	5 3248
1.250000+ 8	4.338649- 2	1.300000+ 8	4.214536- 2	1.400000+ 8	3.892142- 2	5 3249
1.500000+ 8	3.581599- 2	1.600000+ 8	3.297854- 2	1.700000+ 8	3.035214- 2	5 3250
1.750000+ 8	2.922936- 2	1.800000+ 8	2.871305- 2	1.900000+ 8	2.833374- 2	5 3251
2.000000+ 8	2.827359- 2	1.32510				5 3252
-1.083347+ 1	-1.083347+ 1	13026	1	1	94132510	5 3253
94	2				132510	5 3254
1.147496+ 7	0.000000+ 0	1.150000+ 7	0.000000+ 0	1.200000+ 7	3.991291- 3	5 3255
1.250000+ 7	3.366403- 3	1.300000+ 7	3.782358- 5	1.350000+ 7	1.968026- 4	5 3256
1.400000+ 7	5.476209- 4	1.450000+ 7	1.470734- 3	1.500000+ 7	4.365947- 3	5 3257
1.600000+ 7	4.486906- 2	1.610000+ 7	1.509043- 2	1.700000+ 7	1.828976- 2	5 3258
1.800000+ 7	2.335349- 2	1.900000+ 7	3.187343- 2	2.000000+ 7	4.291959- 2	5 3259
2.100000+ 7	5.210037- 2	2.200000+ 7	6.151400- 2	2.300000+ 7	6.779099- 2	5 3260
2.400000+ 7	7.347905- 2	2.500000+ 7	7.663224- 2	2.600000+ 7	7.973666- 2	5 3261
2.700000+ 7	7.990958- 2	2.800000+ 7	7.800000- 2	3.000000+ 7	8.265494- 2	5 3262
3.000000+ 7	6.590846- 2	3.200000+ 7	3.394834- 2	3.300000+ 7	6.138236- 2	5 3263
3.400000+ 7	5.934510- 2	3.500000+ 7	5.712817- 2	3.600000+ 7	5.502096- 2	5 3264
3.700000+ 7	5.289579- 2	3.800000+ 7	5.106127- 2	3.900000+ 7	5.023712- 2	5 3265
4.000000+ 7	4.884910- 2	4.100000+ 7	4.768685- 2	4.200000+ 7	4.626790- 2	5 3266
4.300000+ 7	4.519181- 2	4.400000+ 7	4.385343- 2	4.500000+ 7	4.274880- 2	5 3267
4.600000+ 7	4.159297- 2	4.700000+ 7	4.029143- 2	4.800000+ 7	3.958836- 2	5 3268
4.900000+ 7	3.917057- 2	5.000000+ 7	3.848460- 2	5.100000+ 7	3.793075- 2	5 3269
5.200000+ 7	3.751729- 2	5.300000+ 7	3.638293- 2	5.400000+ 7	3.633499- 2	5 3270
5.500000+ 7	3.419002- 2	5.900000+ 7	3.409226- 2	6.000000+ 7	3.371647- 2	5 3271
5.800000+ 7	3.367927- 2	6.000000+ 7	3.291549- 2	5.300000+ 7	3.245152- 2	5 3272
6.100000+ 7	3.367927- 2	6.200000+ 7	3.311381- 2	5.600000+ 7	3.291549- 2	5 3273
6.400000+ 7	3.241980- 2	6.500000+ 7	3.216568- 2	6.600000+ 7	3.193402- 2	5 3274
6.700000+ 7	3.157002- 2	6.800000+ 7	3.117842- 2	6.900000+ 7	3.072776- 2	5 3275
7.000000+ 7	3.049898- 2	7.200000+ 7	2.993840- 2	7.400000+ 7	2.954125- 2	5 3276
7.500000+ 7	2.928872- 2	7.600000+ 7	2.903085- 2	7.800000+ 7	2.846757- 2	5 3277
8.000000+ 7	2.799555- 2	8.200000+ 7	2.768974- 2	8.400000+ 7	2.735658- 2	5 3278
8.500000+ 7	2.705391- 2	8.600000+ 7	2.675524- 2	8.800000+ 7	2.613756- 2	5 3279
9.000000+ 7	5.543846- 2	9.400000+ 7	4.230242- 2	9.500000+ 7	3.92120- 2	5 3280
9.800000+ 7	2.295354- 2	1.000000+ 8	2.238724- 2	1.050000+ 8	2.172189- 2	5 3281
1.000000+ 8	2.052527- 2	1.200000+ 8	2.031062- 2	1.200000+ 8	2.021020- 2	5 3282
1.250000+ 8	1.988625- 2	1.300000+ 8	1.932918- 2	1.400000+ 8	1.764827- 2	5 3283
1.500000+ 8	1.619750- 2	1.600000+ 8	1.494542- 2	1.700000+ 8	1.369732- 2	5 3284
1.750000+ 8	1.308829- 2	1.800000+ 8	1.270068- 2	1.900000+ 8	1.244675- 2	5 3285
2.000000+ 8	1.232249- 2	1.300000+ 7	1.200000+ 7	1.576210- 2	1.220000- 2	5 3286
0.000000+ 0	0.000000+ 0	13027	0	1	106132510	5 3287
106	2				132510	5 3288
0.000000+ 0	0.000000+ 0	1.200000+ 6	0.000000+ 0	1.400000+ 6	9.241282- 6	5 3289
1.600000+ 6	1.140368- 4	6.184025- 4	2.000000+ 6	2.067610- 3	31.25210	5 3290
2.200000+ 6	5.071173- 3	2.400000+ 6	1.010838- 2	6.1741658- 2	31.25210	5 3291
2.800000+ 6	2.692247- 2	3.000000+ 6	3.832925- 2	3.200000+ 6	5.135635- 2	5 3292
3.400000+ 6	5.685633- 3	3.600000+ 6	8.107285- 2	3.800000+ 6	9.740928- 2	5 3293
4.000000+ 6	1.151310- 2	4.200000+ 6	1.343172- 1	4.000000+ 6	5.150017- 2	5 3294
4.600000+ 6	1.772110- 2	4.800000+ 6	2.02722- 1	5.000000+ 6	2.335567- 2	5 3295
5.200000+ 6	2.467035- 2	5.400000+ 6	2.690370- 2	5.600000+ 6	3.90320- 2	5 3296
5.800000+ 6	3.103510- 2	6.000000+ 6	3.200152- 2	6.200000+ 6	3.305080- 2	5 3297
6.400000+ 6	3.425380- 2	6.600000+ 6	3.516355- 2	6.800000+ 6	3.627375- 2	5 3298
7.000000+ 6	3.701975- 1	7.200000+ 6	3.798868- 1	7.400000+ 6	3.903698- 2	5 3299
7.600000+ 6	4.017833- 2	7.800000+ 6	4.140511- 2	8.000000+ 6	4.205155- 2	5 3300
8.500000+ 6	4.573382- 1	9.000000+ 6	4.684287-			

6.133000+6	1.383000-2	6.137000+6	1.642000-2	6.140000+6	1.840000-2132510	5 3441
6.144000+6	2.320000-2	6.147000+6	2.450000-2	6.155000+6	2.150000-2132510	5 3442
6.156000+6	1.920000-2	6.157000+6	1.617000-2	6.164000+6	1.387000-2132510	5 3443
6.167000+6	1.169000-2	6.176000+6	9.680000-3	6.184000+6	1.044000-2132510	5 3444
6.191000+6	1.390000-2	6.198000+6	1.391000-2	6.199000+6	1.559000-2132510	5 3445
6.211000+6	2.930000-2	6.212000+6	3.280000-2	6.219000+6	3.640000-2132510	5 3447
6.225000+6	3.680000-2	6.228000+6	3.680000-2	6.236000+6	3.480000-2132510	5 3448
6.242000+6	3.290000-2	6.250000+6	3.30000-2	6.258000+6	2.940000-2132510	5 3449
6.263000+6	2.620000-2	6.269000+6	2.340000-2	6.271000+6	2.090000-2132510	5 3450
6.280000+6	9.910000-2	6.285000+6	1.970000-2	6.288000+6	2.090000-2132510	5 3451
6.293000+6	2.630000-2	6.295000+6	2.630000-2	6.296000+6	2.430000-2132510	5 3452
6.305000+6	1.940000-2	6.310000+6	1.765000-2	6.314000+6	1.574000-2132510	5 3453
6.320000+6	1.668000-2	6.330000+6	1.728000-2	6.338000+6	1.840000-2132510	5 3454
6.340000+6	1.220000-2	6.350000+6	1.110000-2	6.360000+6	1.180000-2132510	5 3455
6.410000+6	1.170000-2	6.430000+6	1.230000-2	6.440000+6	1.220000-2132510	5 3456
6.450000+6	1.280000-2	6.460000+6	1.420000-2	6.470000+6	1.660000-2132510	5 3457
6.480000+6	1.840000-2	6.490000+6	2.340000-2	6.500000+6	2.170000-2132510	5 3458
6.510000+6	2.120000-2	6.520000+6	2.330000-2	6.530000+6	2.680000-2132510	5 3459
6.540000+6	3.160000-2	6.560000+6	3.550000-2	6.560000+6	3.690000-2132510	5 3460
6.570000+6	3.75000-2	6.580000+6	3.650000-2	6.600000+6	3.450000-2132510	5 3461
6.610000+6	2.990000-2	6.610001+6	2.500000-2	6.620000+6	2.280000-2132510	5 3462
6.640000+6	2.250000-2	6.650000+6	2.440000-2	6.660000+6	2.500000-2132510	5 3463
6.670000+6	2.580000-2	6.690000+6	2.360000-2	6.690001+6	2.180000-2132510	5 3464
6.700000+6	1.950000-2	6.710000+6	1.820000-2	6.730000+6	1.820000-2132510	5 3465
6.740000+6	1.860000-2	6.750000+6	1.870000-2	6.760000+6	1.910000-2132510	5 3466
6.780000+6	1.940000-2	6.800000+6	2.010000-2	6.800001+6	2.350000-2132510	5 3467
6.820000+6	2.430000-2	6.830000+6	2.580000-2	6.840000+6	2.710000-2132510	5 3468
6.840000+6	3.100000-2	6.860000+6	3.320000-2	6.880000+6	3.290000-2132510	5 3469
6.890000+6	3.450000-2	6.900000+6	3.470000-2	6.910000+6	3.640000-2132510	5 3470
6.920000+6	3.450000-2	6.930000+6	3.050000-2	6.930001+6	3.020000-2132510	5 3471
6.950000+6	3.310000-2	6.960000+6	2.970000-2	6.970000+6	2.390000-2132510	5 3472
6.970000+6	2.100000-2	6.980000+6	1.970000-2	6.990000+6	1.920000-2132510	5 3473
7.000000+6	2.010000-2	7.010000+6	1.670000-2	7.010000+6	1.670000-2132510	5 3474
7.020000+6	1.550000-2	7.030000+6	2.250000-2	7.030001+6	2.690000-2132510	5 3475
7.050000+6	1.290000-2	7.050001+6	1.160000-2	7.050002+6	2.910000-2132510	5 3476
7.060000+6	3.460000-2	7.070000+6	1.190000-2	7.070001+6	3.780000-2132510	5 3477
7.080000+6	2.400000-2	7.080001+6	3.530000-2	7.090000+6	1.900000-2132510	5 3478
7.090000+6	3.380000-2	7.090002+6	3.230000-2	7.110000+6	1.010000-2132510	5 3479
7.110000+6	3.170000-2	7.120000+6	3.110000-2	7.130000+6	9.000000-2132510	5 3480
7.130000+6	3.130000-2	7.140000+6	1.100000-2	7.140001+6	3.270000-2132510	5 3481
7.150000+6	1.260000-2	7.150001+6	3.420000-2	7.160000+6	3.360000-2132510	5 3482
7.170000+6	9.400000-2	7.170001+6	3.200000-2	7.180000+6	2.920000-2132510	5 3483
7.190000+6	1.370000-2	7.190001+6	2.890000-2	7.200000+6	2.850000-2132510	5 3484
7.210000+6	1.450000-2	7.210001+6	2.730000-2	7.220000+6	2.200000-2132510	5 3485
7.220000+6	2.710000-2	7.230000+6	2.770000-2	7.230001+6	2.760000-2132510	5 3486
7.240000+6	2.810000-2	7.240001+6	2.710000-2	7.240002+6	2.520000-2132510	5 3487
7.260000+6	2.090000-2	7.260001+6	2.630000-2	7.270000+6	1.580000-2132510	5 3488
7.270000+6	2.850000-2	7.270002+6	3.040000-2	7.280000+6	1.400000-2132510	5 3489
7.290000+6	2.920000-2	7.300000+6	1.600000-2	7.300001+6	2.850000-2132510	5 3490
7.310000+6	2.130000-2	7.320000+6	2.960000-2	7.330000+6	2.270000-2132510	5 3491
7.330000+6	3.070000-2	7.340000+6	2.800000-2	7.340001+6	3.250000-2132510	5 3492
7.350000+6	3.220000-2	7.360000+6	3.020000-2	7.370000+6	2.530000-2132510	5 3493
7.380000+6	1.750000-2	7.390000+6	1.560000-2	7.390001+6	2.920000-2132510	5 3494
7.390000+6	2.370000-2	7.400000+6	2.900000-2	7.410000+6	1.820000-2132510	5 3495
7.410000+6	2.870000-2	7.420000+6	2.360000-2	7.430000+6	1.930000-2132510	5 3496
7.430000+6	2.350000-2	7.430002+6	2.760000-2	7.440000+6	2.590000-2132510	5 3497
7.450000+6	2.670000-2	7.460000+6	2.640000-2	7.460001+6	3.130000-2132510	5 3498
7.470000+6	2.390000-2	7.470001+6	3.380000-2	7.480000+6	3.450000-2132510	5 3499
7.490000+6	3.000000-2	7.490001+6	3.560000-2	7.500000+6	3.300000-2132510	5 3500
7.500000+6	3.560000-2	7.510000+6	3.500000-2	7.520000+6	3.620000-2132510	5 3501
7.520000+6	3.380000-2	7.530000+6	3.630000-2	7.530001+6	3.270000-2132510	5 3502
7.550000+6	2.520000-2	7.550001+6	3.240000-2	7.550002+6	3.270000-2132510	5 3503
7.560000+6	3.570000-2	7.570000+6	2.040000-2	7.570001+6	2.250000-2132510	5 3504
7.580000+6	3.830000-2	7.590000+6	2.400000-2	7.590001+6	3.480000-2132510	5 3505
7.600000+6	1.390000-2	7.600001+6	4.050000-2	7.610000+6	9.300000-2132510	5 3506
7.610000+6	3.940000-2	7.630000+6	3.980000-2	7.630001+6	3.910000-2132510	5 3507
7.640000+6	3.910000-2	7.650000+6	4.020000-2	7.660000+6	4.150000-2132510	5 3508
7.670000+6	4.110000-2	7.680000+6	4.010000-2	7.690000+6	4.040000-2132510	5 3509
7.700000+6	4.240000-2	7.710000+6	4.410000-2	7.720000+6	4.490000-2132510	5 3510
7.730000+6	4.350000-2	7.740000+6	4.210000-2	7.760000+6	4.100000-2132510	5 3511
7.760000+6	4.010000-2	7.770000+6	3.880000-2	7.780000+6	3.790000-2132510	5 3512
7.790000+6	3.720000-2	7.800000+6	3.580000-2	7.810000+6	3.520000-2132510	5 3513
7.830000+6	3.550000-2	7.830001+6	3.670000-2	7.850000+6	3.670000-2132510	5 3514
7.860000+6	3.560000-2	7.860001+6	3.710000-2	7.880000+6	3.950000-2132510	5 3515
7.890000+6	4.400000-2	7.900000+6	4.620000-2	7.910000+6	4.420000-2132510	5 3516
7.920000+6	4.320000-2	7.930000+6	4.280000-2	7.940000+6	4.340000-2132510	5 3517
7.950000+6	4.290000-2	7.960000+6	4.330000-2	7.970000+6	4.390000-2132510	5 3518
7.970000+6	4.480000-2	7.980000+6	4.580000-2	7.990000+6	4.710000-2132510	5 3519
8.010000+6	4.680000-2	8.020000+6	5.120000-2	8.020001+6	4.420000-2132510	5 3520
8.030000+6	5.030000-2	8.040000+6	8.050000-2	8.050000+6	4.790000-2132510	5 3521
8.060000+6	4.950000-2	8.070000+6	5.160000-2	8.080000+6	5.160000-2132510	5 3522
8.090000+6	5.160000-2	8.110000+6	5.140000-2	8.120000+6	4.760000-2132510	5 3523
8.130000+6	4.510000-2	8.130001+6	4.340000-2	8.150000+6	4.340000-2132510	5 3524
8.160000+6	4.390000-2	8.170000+6	4.660000-2	8.180000+6	4.640000-2132510	5 3525
8.180000+6	4.570000-2	8.200000+6	4.270000-2	8.210000+6	4.270000-2132510	5 3526
8.220000+6	4.280000-2	8.220001+6	4.330000-2	8.240000+6	4.430000-2132510	5 3527
8.250000+6	4.690000-2	8.260000+6	4.780000-2	8.260001+6	4.600000-2132510	5 3528
8.270000+6	4.350000-2	8.290000+6	4.310000-2	8.300000+6	4.260000-2132510	5 3529
8.320000+6	4.360000-2	8.320001+6	4.430000-2	8.330000+6	4.260000-2132510	5 3530
8.340000+6	4.210000-2	8.350000+6	4.260000-2	8.360000+6	4.260000-2132510	5 3531
8.370000+6	4.240000-2	8.390000+6	4.510000-2	8.400000+6	4.270000-2132510	5 3532
8.410000+6	4.030000-2	8.420000+6	4.060000-2	8.430000+6	4.480000-2132510	5 3533
8.440000+6	4.870000-2	8.450000+6	4.830000-2	8.460000+6	4.810000-2132510	5 3534
8.470000+6	4.940000-2	8.480000+6	5.010000-2	8.490000+6	5.010000-2132510	5 3535
8.500000+6	4.900000-2	8.510000+6	5.180000-2	8.520000+6	4.960000-2132510	5 3536
8.600000+6	6.500000-2	9.000000+6	7.199162-3	1.000000+7	8.378791-3132510	5 3537
1.100000+7	9.138518-2	1.200000+7	9.706223-2	1.300000+7	1.039712-1132510	5 3538
1.400000+7	1.119847-1	1.500000+7	1.187870-1	1.600000+7	1.971613-113251	

1.468000+6	3.100000-5	1.470000+6	1.638800-5	1.478000+6	9.971000-6132510	5 3693
1.489000+6	9.971000-6	1.500000+6	1.088000-5	1.506000+6	1.468000-5132510	5 3694
1.509000+6	3.027500-5	1.511000+6	2.357000-5	1.514000+6	2.701000-5132510	5 3695
1.517000+6	5.529500-5	1.518000+6	1.468000-5	1.520000+6	4.550000-5132510	5 3696
1.523000+6	1.922000-4	1.531000+6	1.342000-5	1.534000+6	1.029900-4132510	5 3697
1.536000+6	2.067000-5	1.547000+6	1.124000-5	1.555000+6	6.418000-6132510	5 3698
1.568000+6	5.602000-6	1.569000+6	1.402000-5	1.577000+6	8.702000-6132510	5 3699
1.580000+6	1.695000-5	1.583000+6	3.308500-5	1.588000+6	1.891333-5132510	5 3700
1.589000+6	1.100200-4	1.592000+6	2.220500-4	1.599000+6	4.949000-5132510	5 3701
1.600000+6	1.468000-4	1.604000+6	9.790000-6	1.607000+6	7.614000-5132510	5 3702
1.615000+6	6.672000-6	1.631000+6	6.381000-6	1.637000+6	6.381000-6132510	5 3703
1.648000+6	6.980000-6	1.651000+6	4.514000-6	1.654000+6	1.187500-5132510	5 3704
1.659000+6	1.287000-5	1.665000+6	3.401000-5	1.667000+6	1.070000-5132510	5 3705
1.668000+6	2.565000-4	1.671000+6	3.662000-4	1.676000+6	1.541000-4132510	5 3706
1.677000+6	2.719500-4	1.679000+6	5.892000-5	1.681000+6	2.198250-5132510	5 3707
1.682000+6	1.033000-4	1.686000+6	9.065000-6	1.687000+6	5.710667-5132510	5 3708
1.689000+6	1.740000-5	1.692000+6	3.064000-6	1.693000+6	9.155000-5132510	5 3709
1.695000+6	2.574000-5	1.700000-6	8.810000-6	1.708000+6	5.602000-6132510	5 3710
1.714000+6	1.262833-5	1.717000+6	1.342000-5	1.720000+6	1.813000-5132510	5 3711
1.725000+6	2.006333-5	1.728000+6	1.396000-5	1.729000+6	1.904000-4132510	5 3712
1.731000+6	1.636900-4	1.736000+6	4.088000-5	1.737000+6	1.287000-5132510	5 3713
1.739000+6	4.378000-5	1.741000+6	1.133000-5	1.744000+6	1.577000-5132510	5 3714
1.750000+6	2.060667-5	1.752000+6	1.904000-5	1.753000+6	3.191000-5132510	5 3715
1.755000+6	3.807000-5	1.761000+6	1.668000-5	1.763000+6	1.244667-5132510	5 3716
1.766000+6	1.397000-5	1.768000+6	5.838000-5	1.771000+6	5.131000-5132510	5 3717
1.774000+6	3.463000-6	1.779000+6	3.046000-6	1.793000+6	3.318000-6132510	5 3718
1.798000+6	4.315000-6	1.799000+6	1.740000-5	1.801000+6	5.257500-6132510	5 3719
1.802000+6	4.152000-5	1.803000+6	2.656000-4	1.804000+6	7.270000-6132510	5 3720
1.808000+6	2.520000-4	1.813000+6	5.305667-5	1.815000+6	1.704500-5132510	5 3721
1.816000+6	1.342000-6	1.821000+6	9.427000-6	1.822000+6	1.994000-4132510	5 3722
1.823000+6	4.695000-6	1.829000+6	4.315000-6	1.839000+6	3.771000-6132510	5 3723
1.842000+6	8.267000-6	1.846000+6	3.644000-6	1.848000+6	2.438500-5132510	5 3724
1.851000+6	2.357000-5	1.856000+6	7.143000-6	1.861000+6	3.952000-6132510	5 3725
1.870000+6	4.297000-6	1.875000+6	4.913000-6	1.881000+6	5.838000-5132510	5 3726
1.889000+6	6.943000-6	1.897000+6	9.065000-6	1.900000+6	1.070000-5132510	5 3727
1.906000+6	1.396000-5	1.909000+6	1.813000-5	1.912000+6	4.152000-5132510	5 3728
1.917000+6	7.816500-5	1.920000+6	9.971000-5	1.922000+6	2.257000-5132510	5 3729
1.925000+6	1.668000-5	1.927000+6	4.927000-6	1.928000+6	4.931000-5132510	5 3730
1.930000+6	6.943000-6	1.938000+6	7.578000-6	1.944000+6	8.267000-6132510	5 3731
1.949000+6	9.790000-6	1.960000+6	1.215000-5	1.963000+6	1.532000-5132510	5 3732
1.966000+6	3.466200-5	1.967000+6	9.110000-5	1.974000+6	2.919000-5132510	5 3733
1.978000+6	1.233000-4	1.980000+6	7.173333-5	1.983000-6	4.333000-5132510	5 3734
1.985000+6	2.792000-5	1.993000+6	1.885000-6	1.996000+6	1.740000-5132510	5 3735
1.997000+6	1.274000-5	2.000000+6	1.108000-5	2.006000+6	6.916000-6132510	5 3736
2.008000+6	9.070000-6	2.014000+6	8.156000-6	2.019000+6	7.979000-6132510	5 3737
2.026000+6	7.985000-6	2.028000+6	9.643000-6	2.030000+6	1.112000-6132510	5 3738
2.032000+6	1.259000-5	2.035000+6	1.388000-5	2.037000+6	1.590000-5132510	5 3739
2.038000+6	1.756000-5	2.039000+6	1.995000-5	2.040000+6	2.216000-5132510	5 3740
2.041000+6	2.492000-5	2.042000+6	2.842000-6	2.043000+6	2.970000-5132510	5 3741
2.044000+6	3.692750-5	2.045000+6	4.074500-6	2.047000+6	3.743500-5132510	5 3742
2.048000+6	3.292500-6	2.050000+6	3.08000-5	2.051000+6	2.980500-5132510	5 3743
2.052000+6	4.722556-5	2.053000+6	8.086500-5	2.054000+6	2.765400-4132510	5 3744
2.056000+6	2.876000-4	2.058000+6	1.873250-4	2.059000+6	1.280000-5132510	5 3745
2.060000+6	9.583500-5	2.061000+6	6.460000-5	2.062000+6	4.162000-5132510	5 3746
2.063000+6	2.616000-5	2.064000+6	1.942667-5	2.065000-6	1.576500-5132510	5 3747
2.066000+6	1.477000-5	2.068000+6	1.550000-5	2.069000+6	1.641000-5132510	5 3748
2.070000+6	1.465000-5	2.072000+6	1.078000-5	2.074000+6	9.870000-6132510	5 3749
2.075000+6	8.418000-6	2.078000+6	7.514000-6	2.081000+6	8.428000-6132510	5 3750
2.083000+6	1.088500-5	2.084000+6	9.341000-6	2.085000+6	1.262000-5132510	5 3751
2.088000+6	1.226000-5	2.089000+6	1.117000-5	2.090000+6	1.044000-5132510	5 3752
2.091000+6	9.536000-6	2.094000+6	9.904000-6	2.096000+6	1.064000-5132510	5 3753
2.099000+6	1.155000-5	2.101000+6	1.228000-5	2.105000+6	3.191000-5132510	5 3754
2.108000+6	1.447000-5	2.109000+6	1.611000-5	2.110000+6	1.720000-5132510	5 3755
2.112000+6	1.975333-5	2.113000+6	2.570750-5	2.114000+6	3.039000-5132510	5 3756
2.115000+6	3.248000-5	2.116000+6	3.339000-5	2.118000+6	3.213000-5132510	5 3757
2.119000+6	3.122000-5	2.120000+6	2.995000-5	2.122000+6	2.886000-5132510	5 3758
2.123000+6	2.777000-5	2.124000+6	2.622500-5	2.125000+6	2.359500-5132510	5 3759
2.126000+6	2.141000-5	2.127000+6	1.887000-5	2.128000+6	1.605500-5132510	5 3760
2.130000+6	1.306000-5	2.131000+6	1.160000-5	2.132000+6	1.070000-5132510	5 3761
2.135000+6	9.973000-6	2.137000+6	1.052000-5	2.138000+6	1.252500-5132510	5 3762
2.139000+6	1.562000-5	2.140000+6	1.967667-5	2.141000+6	2.216000-5132510	5 3763
2.142000+6	2.289000-5	2.144000+6	2.253000-5	2.146000+6	2.363000-5132510	5 3764
2.147000+6	2.236000-6	2.148000+6	2.054000-5	2.149000+6	1.727000-5132510	5 3765
2.150000+6	1.454000-5	2.151000-6	1.281500-5	2.153000-5	1.164000-5132510	5 3766
2.155000+6	1.128000-5	2.159000+6	1.129000-5	2.162000+6	1.129000-5132510	5 3767
2.165000+6	1.275000-5	2.166000+6	1.615000-5	2.167000+6	2.587000-5132510	5 3768
2.168000+6	3.293500-5	2.170000+6	3.421000-6	2.171000+6	3.120000-5132510	5 3769
2.172000+6	4.026125-5	2.173000+6	4.822000-5	2.174000+6	3.343480-5132510	5 3770
2.175000+6	3.967333-5	2.176000+6	2.028667-5	2.177000+6	5.132500-5132510	5 3771
2.178000+6	1.750000-5	2.179000+6	1.605000-5	2.180000+6	1.769000-5132510	5 3772
2.181000+6	1.914000-5	2.182000+6	2.183000-5	2.185000+6	2.587000-5132510	5 3773
2.184000+6	2.185000-5	2.185000+6	2.697000-6	2.186000+6	2.515000-5132510	5 3774
2.187000+6	2.297000-5	2.189000+6	3.07933-5	2.190000+6	4.422375-5132510	5 3775
2.191000+6	5.197500-5	2.192000+6	4.546167-5	2.193000+6	3.925000-5132510	5 3776
2.194000+6	3.393500-5	2.195000+6	3.106200-5	2.196000+6	2.853500-5132510	5 3777
2.199000+6	2.917000-5	2.200000+6	3.117000-5	2.203000+6	3.245000-5132510	5 3778
2.204000+6	3.372000-5	2.205000+6	5.080000-5	2.206000+6	3.837000-5132510	5 3779
2.207000+6	4.422750-5	2.208000+6	5.383800-5	2.209000+6	7.135000-5132510	5 3780
2.210000+6	4.211000-4	2.211000-6	3.337667-4	2.212000-6	4.198000-4132510	5 3781
2.217000+6	4.219000+6	2.214000+6	3.528533-4	2.215000+6	3.621143-5132510	5 3782
2.221000+6	2.075000-5	2.218000+6	1.514333-4	2.219000+6	1.011850-4132510	5 3783
2.226000+6	5.439800-5	2.223000+6	5.845000-5	2.226000+6	5.115000-5132510	5 3785
2.232000+6	5.156667-5	2.225000+6	5.152000-5	2.226000+6	4.037000-5132510	5 3786
2.237000+6	5.227000-5	2.239000+6	5.154000-5	2.242000+6	5.100000-5132510	5 3787
2.245000+6	5.100000-5	2.248000+6	5.028000-5	2.250000+6	4.937000-5132510	5 3788
2.251000+6	4.864000-5	2.252000+6	4.286000-5	2.254000+6	4.518000-5132510	5 3789
2.255000+6	4.372000-5	2.256000+6	4.208000-5	2.257000+6	4.080000-5132510	5 3790
2.258000+6	3.916000-5	2.260000+6	3.752000-5	2.261000+6	3.607000-513251	

KIT Scientific Working Papers
ISSN 2194-1629

www.kit.edu