

**Erratum: Measurement of the CKM matrix element $|V_{cb}|$ from
 $B^0 \rightarrow D^{*-} \ell^+ \nu_\ell$ at Belle
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E. Waheed⁵¹, P. Urquijo⁵¹, D. Ferlewicz⁵¹, I. Adachi,^{18,14} K. Adamczyk,⁶³ H. Aihara,⁸⁷ S. Al Said,^{81,36} D. M. Asner,⁴ H. Atmacan,⁷⁸ T. Aushev,⁵⁵ R. Ayad,⁸¹ V. Babu,⁸² I. Badhrees,^{81,35} V. Bansal,⁶⁹ P. Behera,²⁴ C. Beleño,¹³ F. Bernlochner,³ B. Bhuyan,²² T. Bilka,⁶ J. Biswal,³² A. Bobrov,^{5,67} G. Bonvicini,⁹¹ A. Bozek,⁶³ M. Bračko,^{49,32} T. E. Browder,¹⁷ M. Campajola,^{29,58} D. Červenkov,⁶ P. Chang,⁶² V. Chekelian,⁵⁰ A. Chen,⁶⁰ B. G. Cheon,¹⁶ K. Chilikin,⁴⁴ H. E. Cho,¹⁶ K. Cho,³⁸ S.-K. Choi,¹⁵ Y. Choi,⁷⁹ S. Choudhury,²³ D. Cinabro,⁹¹ S. Cunliffe,⁹ S. Di Carlo,⁴² Z. Doležal,⁶ T. V. Dong,^{18,14} D. Dossett,⁵¹ S. Eidelman,^{5,67,44} D. Epifanov,^{5,67} J. E. Fast,⁶⁹ B. G. Fulsom,⁶⁹ R. Garg,⁷⁰ V. Gaur,⁹⁰ A. Garmash,^{5,67} A. Giri,²³ P. Goldenzweig,³³ B. Golob,^{46,32} O. Grzymkowska,⁶³ J. Haba,^{18,14} T. Hara,^{18,14} K. Hayasaka,⁶⁵ H. Hayashii,⁵⁹ M. T. Hedges,¹⁷ W.-S. Hou,⁶² C.-L. Hsu,⁸⁰ T. Iijima,^{57,56} K. Inami,⁵⁶ G. Inguglia,²⁷ A. Ishikawa,⁸⁵ M. Iwasaki,⁶⁸ Y. Iwasaki,¹⁸ W. W. Jacobs,²⁵ H. B. Jeon,⁴¹ S. Jia,² Y. Jin,⁸⁷ D. Joffe,³⁴ K. K. Joo,⁷ J. Kahn,⁴⁷ A. B. Kaliyar,²⁴ G. Karyan,⁹ T. Kawasaki,³⁷ C. H. Kim,¹⁶ D. Y. Kim,⁷⁷ K. T. Kim,³⁹ S. H. Kim,¹⁶ K. Kinoshita,⁸ P. Kodyš,⁶ S. Korpar,^{49,32} D. Kotchetkov,¹⁷ P. Križan,^{46,32} R. Kroeger,⁵² P. Krokovny,^{5,67} T. Kuhr,⁴⁷ R. Kulasiri,³⁴ A. Kuzmin,^{5,67} Y.-J. Kwon,⁹³ J. S. Lange,¹² J. Y. Lee,⁷⁵ S. C. Lee,⁴¹ C. H. Li,⁴⁵ L. K. Li,²⁶ Y. B. Li,⁷¹ L. Li Gioi,⁵⁰ J. Libby,²⁴ K. Lieret,⁴⁷ D. Liventsev,^{90,18} P.-C. Lu,⁶² T. Luo,¹¹ J. MacNaughton,⁵³ M. Masuda,⁸⁶ D. Matvienko,^{5,67,44} M. Merola,^{29,58} F. Metzner,³³ K. Miyabayashi,⁵⁹ H. Miyata,⁶⁵ R. Mizuk,^{44,54,55} G. B. Mohanty,⁸² T. Mori,⁵⁶ R. Mussa,³⁰ I. Nakamura,^{18,14} M. Nakao,^{18,14} K. J. Nath,²² Z. Natkaniec,⁶³ M. Nayak,^{91,18} M. Niiyama,⁴⁰ N. K. Nisar,⁷² S. Nishida,^{18,14} K. Nishimura,¹⁷ S. Ogawa,⁸⁴ H. Ono,^{64,65} P. Pakhlov,^{44,54} G. Pakhlova,^{44,55} B. Pal,⁴ S. Pardi,²⁹ H. Park,⁴¹ S.-H. Park,⁹³ S. Paul,⁸³ R. Pestotnik,³² L. E. Piilonen,⁹⁰ V. Popov,^{44,55} E. Prencipe,²⁰ M. Prim,³³ A. Rostomyan,⁹ G. Russo,²⁹ Y. Sakai,^{18,14} M. Salehi,^{48,47} S. Sandilya,⁸ T. Sanuki,⁸⁵ V. Savinov,⁷² O. Schneider,⁴³ G. Schnell,^{1,21} J. Schueler,¹⁷ C. Schwanda,²⁷ Y. Seino,⁶⁵ K. Senyo,⁹² O. Seon,⁵⁶ M. E. Sevier,⁵¹ V. Shebalin,¹⁷ C. P. Shen,² J.-G. Shiu,⁶² B. Shwartz,^{5,67} F. Simon,⁵⁰ A. Sokolov,²⁸ E. Solovieva,⁴⁴ S. Stanič,⁶⁶ M. Starič,³² Z. S. Stottler,⁹⁰ J. F. Strube,⁶⁹ T. Sumiyoshi,⁸⁹ M. Takizawa,^{76,19,73} K. Tanida,³¹ F. Tenchini,⁹ K. Trabelsi,⁴² M. Uchida,⁸⁸ T. Uglov,^{44,55} Y. Unno,¹⁶ S. Uno,^{18,14} Y. Usov,^{5,67} G. Varner,¹⁷ K. E. Varvell,⁸⁰ A. Vinokurova,^{5,67} A. Vossen,¹⁰ C. H. Wang,⁶¹ M.-Z. Wang,⁶² P. Wang,²⁶ E. Won,³⁹ S. B. Yang,³⁹ H. Ye,⁹ Y. Yusa,⁶⁵ Z. P. Zhang,⁷⁴ V. Zhilich,^{5,67} and V. Zhukova⁴⁴

(Belle Collaboration)

¹University of the Basque Country UPV/EHU, 48080 Bilbao

²Beihang University, Beijing 100191

³University of Bonn, 53115 Bonn

⁴Brookhaven National Laboratory, Upton, New York 11973

⁵Budker Institute of Nuclear Physics SB RAS, Novosibirsk 630090

⁶Faculty of Mathematics and Physics, Charles University, 121 16 Prague

⁷Chonnam National University, Kwangju 660-701

⁸University of Cincinnati, Cincinnati, Ohio 45221

⁹Deutsches Elektronen-Synchrotron, 22607 Hamburg

¹⁰Duke University, Durham, North Carolina 27708

¹¹Key Laboratory of Nuclear Physics and Ion-beam Application (MOE) and Institute of Modern Physics, Fudan University, Shanghai 200443

¹²Justus-Liebig-Universität Gießen, 35392 Gießen

¹³II. Physikalisches Institut, Georg-August-Universität Göttingen, 37073 Göttingen

¹⁴SOKENDAI (The Graduate University for Advanced Studies), Hayama 240-0193

¹⁵Gyeongsang National University, Chinju 660-701

¹⁶Hanyang University, Seoul 133-791

¹⁷University of Hawaii, Honolulu, Hawaii 96822

¹⁸High Energy Accelerator Research Organization (KEK), Tsukuba 305-0801

¹⁹J-PARC Branch, KEK Theory Center, High Energy Accelerator Research Organization (KEK), Tsukuba 305-0801

²⁰Forschungszentrum Jülich, 52425 Jülich

²¹IKERBASQUE, Basque Foundation for Science, 48013 Bilbao

²²Indian Institute of Technology Guwahati, Assam 781039

²³Indian Institute of Technology Hyderabad, Telangana 502285

²⁴Indian Institute of Technology Madras, Chennai 600036

- ²⁵Indiana University, Bloomington, Indiana 47408
- ²⁶Institute of High Energy Physics, Chinese Academy of Sciences, Beijing 100049
- ²⁷Institute of High Energy Physics, Vienna 1050
- ²⁸Institute for High Energy Physics, Protvino 142281
- ²⁹INFN—Sezione di Napoli, 80126 Napoli
- ³⁰INFN—Sezione di Torino, 10125 Torino
- ³¹Advanced Science Research Center, Japan Atomic Energy Agency, Naka 319-1195
- ³²J. Stefan Institute, 1000 Ljubljana
- ³³Institut für Experimentelle Teilchenphysik, Karlsruher Institut für Technologie, 76131 Karlsruhe
- ³⁴Kennesaw State University, Kennesaw, Georgia 30144
- ³⁵King Abdulaziz City for Science and Technology, Riyadh 11442
- ³⁶Department of Physics, Faculty of Science, King Abdulaziz University, Jeddah 21589
- ³⁷Kitasato University, Sagami-hara 252-0373
- ³⁸Korea Institute of Science and Technology Information, Daejeon 305-806
- ³⁹Korea University, Seoul 136-713
- ⁴⁰Kyoto University, Kyoto 606-8502
- ⁴¹Kyungpook National University, Daegu 702-701
- ⁴²LAL, Univ. Paris-Sud, CNRS/IN2P3, Université Paris-Saclay, Orsay
- ⁴³École Polytechnique Fédérale de Lausanne (EPFL), Lausanne 1015
- ⁴⁴P.N. Lebedev Physical Institute of the Russian Academy of Sciences, Moscow 119991
- ⁴⁵Liaoning Normal University, Dalian 116029
- ⁴⁶Faculty of Mathematics and Physics, University of Ljubljana, 1000 Ljubljana
- ⁴⁷Ludwig Maximilians University, 80539 Munich
- ⁴⁸University of Malaya, 50603 Kuala Lumpur
- ⁴⁹University of Maribor, 2000 Maribor
- ⁵⁰Max-Planck-Institut für Physik, 80805 München
- ⁵¹School of Physics, University of Melbourne, Victoria 3010
- ⁵²University of Mississippi, University, Mississippi 38677
- ⁵³University of Miyazaki, Miyazaki 889-2192
- ⁵⁴Moscow Physical Engineering Institute, Moscow 115409
- ⁵⁵Moscow Institute of Physics and Technology, Moscow Region 141700
- ⁵⁶Graduate School of Science, Nagoya University, Nagoya 464-8602
- ⁵⁷Kobayashi-Maskawa Institute, Nagoya University, Nagoya 464-8602
- ⁵⁸Università di Napoli Federico II, 80055 Napoli
- ⁵⁹Nara Women's University, Nara 630-8506
- ⁶⁰National Central University, Chung-li 32054
- ⁶¹National United University, Miao Li 36003
- ⁶²Department of Physics, National Taiwan University, Taipei 10617
- ⁶³H. Niewodniczanski Institute of Nuclear Physics, Krakow 31-342
- ⁶⁴Nippon Dental University, Niigata 951-8580
- ⁶⁵Niigata University, Niigata 950-2181
- ⁶⁶University of Nova Gorica, 5000 Nova Gorica
- ⁶⁷Novosibirsk State University, Novosibirsk 630090
- ⁶⁸Osaka City University, Osaka 558-8585
- ⁶⁹Pacific Northwest National Laboratory, Richland, Washington, D.C. 99352
- ⁷⁰Panjab University, Chandigarh 160014
- ⁷¹Peking University, Beijing 100871
- ⁷²University of Pittsburgh, Pittsburgh, Pennsylvania 15260
- ⁷³Theoretical Research Division, Nishina Center, RIKEN, Saitama 351-0198
- ⁷⁴University of Science and Technology of China, Hefei 230026
- ⁷⁵Seoul National University, Seoul 151-742
- ⁷⁶Showa Pharmaceutical University, Tokyo 194-8543
- ⁷⁷Soongsil University, Seoul 156-743
- ⁷⁸University of South Carolina, Columbia, South Carolina 29208
- ⁷⁹Sungkyunkwan University, Suwon 440-746
- ⁸⁰School of Physics, University of Sydney, New South Wales 2006
- ⁸¹Department of Physics, Faculty of Science, University of Tabuk, Tabuk 71451
- ⁸²Tata Institute of Fundamental Research, Mumbai 400005
- ⁸³Department of Physics, Technische Universität München, 85748 Garching
- ⁸⁴Toho University, Funabashi 274-8510

⁸⁵*Department of Physics, Tohoku University, Sendai 980-8578*

⁸⁶*Earthquake Research Institute, University of Tokyo, Tokyo 113-0032*

⁸⁷*Department of Physics, University of Tokyo, Tokyo 113-0033*

⁸⁸*Tokyo Institute of Technology, Tokyo 152-8550*

⁸⁹*Tokyo Metropolitan University, Tokyo 192-0397*

⁹⁰*Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061*

⁹¹*Wayne State University, Detroit, Michigan 48202*

⁹²*Yamagata University, Yamagata 990-8560*

⁹³*Yonsei University, Seoul 120-749*



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There was an error in the calculation of the value of N_{B^0} in the original transcript. The value of f_{00} was erroneously set to 0.500 in the code (the value used in Monte Carlo studies), not the world average value of 0.486 as specified in the transcript. The effect of this change is to increase the quoted values of $F(1)|V_{cb}|\eta_{EW}$ by 1.4% and the branching fraction by 2.9%. The associated relative systematic uncertainties remain unchanged from the original transcript. Below, we report on the resulting changes in the measurement. The fit results from the Caprini-Lellouch-Neubert (CLN) and Boyd, Grinstein and Lebed (BGL) parameterizations are given in Tables I and II, respectively.

I. RESULTS

The full results for the fit to the CLN parameterization are given below, where the first uncertainty is statistical, and the second systematic:

$$\mathcal{F}(1)|V_{cb}|\eta_{EW} \times 10^3 = 35.56 \pm 0.15 \pm 0.57, \quad (1)$$

$$\mathcal{B}(B^0 \rightarrow D^{*-}\ell^+\nu_\ell) = (5.04 \pm 0.02 \pm 0.16)\%. \quad (2)$$

TABLE I. Fit results for the four subsamples in the CLN parameterization, errors are statistical errors only.

	SVD1 e	SVD1 μ	SVD2 e	SVD2 μ
$\mathcal{F}(1) V_{cb} \eta_{EW} \times 10^3$	35.16 ± 0.49	35.51 ± 0.51	35.75 ± 0.23	35.48 ± 0.25
$\mathcal{B}(B^0 \rightarrow D^{*-}\ell^+\nu_\ell) [\%]$	5.03 ± 0.06	5.10 ± 0.06	5.07 ± 0.03	5.00 ± 0.03

TABLE II. Fit results for the electron and muon subsamples in the BGL parameterization where the following parameters are floated: $\tilde{a}_0^f, \tilde{a}_1^f, \tilde{a}_1^{F1}, \tilde{a}_2^{F1}, \tilde{a}_0^g$ along with $\mathcal{F}(1)|V_{cb}|\eta_{EW}$ (derived from \tilde{a}_0^f). The error shown in the table are the statistical errors only.

	e	μ
$\tilde{a}_0^f \times 10^2$	-0.0514 ± 0.0005	-0.0512 ± 0.0006
$\tilde{a}_1^f \times 10^2$	-0.0683 ± 0.0223	-0.0635 ± 0.0256
$\tilde{a}_1^{F1} \times 10^2$	-0.0296 ± 0.0087	-0.0251 ± 0.0097
$\tilde{a}_2^{F1} \times 10^2$	$+0.3456 \pm 0.1698$	$+0.3168 \pm 0.1898$
$\tilde{a}_0^g \times 10^2$	-0.0876 ± 0.0024	-0.1008 ± 0.0027
$\mathcal{F}(1) V_{cb} \eta_{EW} \times 10^3$	35.51 ± 0.31	35.34 ± 0.36
$\mathcal{B}(B^0 \rightarrow D^{*-}\ell^+\nu_\ell) [\%]$	5.05 ± 0.02	5.02 ± 0.03

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The full results for the fit to the BGL parametrization are given below, where the first uncertainty is statistical, and the second systematic:

$$\tilde{a}_0^f \times 10^3 = -0.513 \pm 0.004 \pm 0.008, \quad (3)$$

$$\tilde{a}_1^f \times 10^3 = -0.66 \pm 0.17 \pm 0.09, \quad (4)$$

$$\tilde{a}_1^{F_1} \times 10^3 = -0.274 \pm 0.065 \pm 0.023, \quad (5)$$

$$\tilde{a}_2^{F_1} \times 10^3 = +3.32 \pm 1.27 \pm 0.46, \quad (6)$$

$$\tilde{a}_0^g \times 10^3 = -0.942 \pm 0.018 \pm 0.013, \quad (7)$$

$$\mathcal{F}(1)|V_{cb}|\eta_{EW} \times 10^3 = 35.44 \pm 0.23 \pm 0.60, \quad (8)$$

$$\mathcal{B}(B^0 \rightarrow D^{*-}\ell^+\nu_\ell) = (5.04 \pm 0.02 \pm 0.16)\%. \quad (9)$$

Taking the value of $\mathcal{F}(1) = 0.906 \pm 0.013$ from lattice QCD in Ref. [1] and $\eta_{EW} = 1.0066$ from Ref. [2], we find the following values for $|V_{cb}|$: $(39.0 \pm 0.2 \pm 0.6 \pm 0.6) \times 10^{-3}$ (CLN + LQCD) and $(38.9 \pm 0.3 \pm 0.7 \pm 0.6) \times 10^{-3}$ (BGL + LQCD), where the uncertainties are statistical, systematic, and from lattice QCD, respectively. The value of $|V_{cb}|$ from the CLN and BGL parametrizations are consistent with the world average and remain to be in tension with inclusive $|V_{cb}|$ [3].

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