

GridKA School 2009

31.8.-4.9.

***Marcus Hardt, Ahmad Hammad,
Christopher Jung
SCC @ KIT***

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GridKa

- National Tier1 Center for LHC Grid (CERN)
 - Currently 4000CPUs, 7PB Tape + 6 PB Disk
- National Storage Center (LSDF)

GridKa School 2009: 31.8.-4.9.

- . Yearly Event
- . Training for: Masters, PhDs, Post Docs, ...
- . ~100 Participants per Year
- . Non profit event!
- . Last Years Agenda: <http://gks08.fzk.de/Agenda.html>

GridKa School

- Typical focus
 - Hands on training
 - Grid Technologies
 - Grid Tools
 - Data Management
 - Job submission
 - Root, Proof, ... (HPC domination)
 - Grid Background (for Admins and Powerusers)
- Euforia specific topics not covered so far

In Barcelona we decided:

- There is a fusion related meeting in Juelich
- Many potential Euforia users there
- We will offer Euforia training before this in Karlsruhe
- Meanwhile:
 - Co located:
School on **Fusion Technologies** (31.8.-11.9.)
 - Organised by Dirk Radloff

Forschungszentrum Karlsruhe, Germany | August 31- September 11, 2009

Topics:

- Introduction to fusion
- Introduction to plasma physics
- Plasma heating technology and plasma diagnostics
- Materials development for fusion reactors
- Neutronics and activation analysis
- Plasma facing Components (Divertor, Blanket)
- Safety analysis
- Socioeconomics, safety and waste
- The fuel cycle of a fusion reactor
- Technology of magnetic confinement
- Remote handling, maintenance scheme
- Operating and planned facilities

Remote participation for students outside Europe

For more information or registration, please visit our website:
www.kit.edu/summerschool-fusion



Fusion Technologies

Karlsruhe International School 2009



Application Deadline: July 15th, 2009

In Kooperation mit:



KIT – die Kooperation von Forschungszentrum Karlsruhe GmbH und Universität Karlsruhe (TH)

F Forschungszentrum Karlsruhe
in der Helmholtz-Gemeinschaft

Universität Karlsruhe (TH)
Research University - founded 1825

Slide courtesy of Dirk Radloff

WP 4.2 Organise a summer programme for technical/master students (III)

So far done at FZK:

- Organisation of the 1st Karlsruhe International Summer School on Fusion Technologies 2007 (Sept. 3rd - 14th) in co-operation with CEA and UKAEA.
- 43 participants from 9 European countries; 12 Indian scientists live via videoconference connected
- Organisation of the 2nd Karlsruhe International Summer School on Fusion Technologies 2008 (Sept. 1st - 12th) in co-operation with CEA, UKAEA, ENEA and ÖAW.
- 51 participants from 13 European countries; Indian and Chinese scientists live via videoconference connected



Slide courtesy of Dirk Radloff

Euforia Track at GridKa School 2009

- Goal
 - Pull focus to advanced User Interfaces
RAS/**Kepler**/MD
 - Train Fusion users to leverage grid resources
 - Increase visibility of the project

Topics for Euforia Track

- Advanced Grid Technology
 - RAS **Kepler** MD
 - MPI on the grid
 - Interactive access
 - Visit
- <Whatever is missing>
- Benefits from other tracks:
 - Grid Job submission
 - Grid Data handling

- Scientific Workflow (Talk 40min)
- Visit (Talk 30min)
- MPI on the grid (Talk 30min)
- Coffee
- Graphical User Interfaces for Grid (30min)
- Scientific Workflow using **Kepler (Hands on 4h)**
 - **Basics (2.5h)**
- LUNCH
 - Grid + HPC (30 min)
 - MPI / Interactive access (30 min)
 - VISIT (30 min)