

# Accelerator School

# PHYSICS AT THE TERASCALE

Helmholtz Alliance

Deutsches-Elektronen Synchrotron DESY +++ Forschungszentrum Karlsruhe GmbH +++ Max-Planck-Institut für Physik München +++ Rheinisch-Westfälische Technische Hochschule Aachen +++ Humboldt-Universität Berlin +++ Rheinische Friedrich-Wilhelms-Universität Bonn +++ Technische Universität Dortmund +++ Technische Universität Dresden +++ Albert-Ludwigs-Universität Freiburg +++ Justus-Liebig-Universität Gießen +++ Georg-August-Universität Göttingen +++ Universität Hamburg +++ Universität Heidelberg +++ Universität Karlsruhe +++ Johannes Gutenberg Universität Mainz +++ Ludwig-Maximilians Universität München +++ Universität Regensburg +++ Universität Rostock +++ Universität Siegen +++ Julius-Maximilians-Universität Würzburg +++ Bergische Universität Wuppertal +++

**7-11 September 2009**  
**Universitätskolleg Bommerholz**  
**(15 km from Dortmund)**

## Topics:


- Introduction to Accelerators
- Large Hadron Collider
- Linear Colliders
- Superconducting RF
- Synchrotron Radiation
- Novel Concepts

The school is organized by the Helmholtz Alliance "Physics at the Terascale". The program comprises introductory lectures, covering the physics and engineering of modern particle accelerators. The lectures are supplemented by computer exercises which are discussed and evaluated.

The school is directed at students having completed their basic training in physics, typically 6 semesters. PhD students and young postdocs seeking a deeper understanding of accelerator physics are equally welcome.

Top: Tunnel of a historic coal mine located near Bommerholz (LWL Industriemuseum Zeche Nachtigall, Witten, photo by Anette Hudemann, LWL). Bottom: Synchrotron radiation source DELTA at TU Dortmund

Hosted by the Center for Synchrotron Radiation  
of the TU Dortmund (v.i.S.d.P.: Shaukat Khan)

 technische universität  
dortmund

Further information and registration until 8 August 2009 under

<http://www.terascale.de/tas2009>

