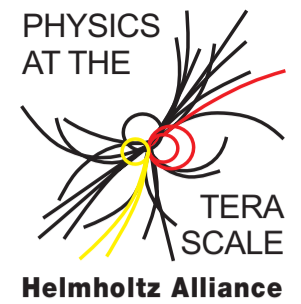


Helmholtz Alliance

PHYSICS AT THE TERASCALE



Deutsches Elektronen-Synchrotron DESY +++ Karlsruher Institut für Technologie - Großforschungsbereich +++ Max-Planck-Institut für Physik +++ Rheinisch-Westfälische Technische Hochschule Aachen +++ Humboldt-Universität zu 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 +++ Ruprecht-Karls-Universität Heidelberg +++ Karlsruher Institut für Technologie - Universitätsbereich +++ Johannes Gutenberg-Universität Mainz +++ Ludwig-Maximilians-Universität München +++ Universität Regensburg +++ Universität Rostock +++ Universität Siegen +++ Julius-Maximilians-Universität Würzburg +++ Bergische Universität Wuppertal +++

Geant4 Training Event Calorimetry in HEP

10 - 13 May 2011
DESY, Zeuthen Site

Key objectives

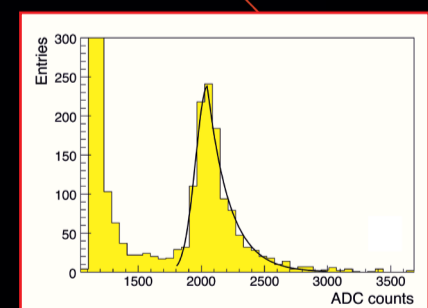
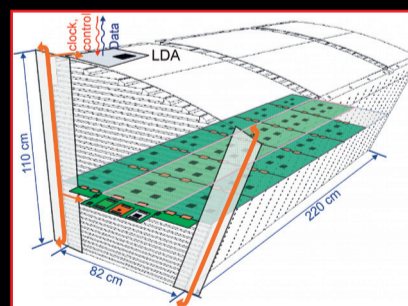
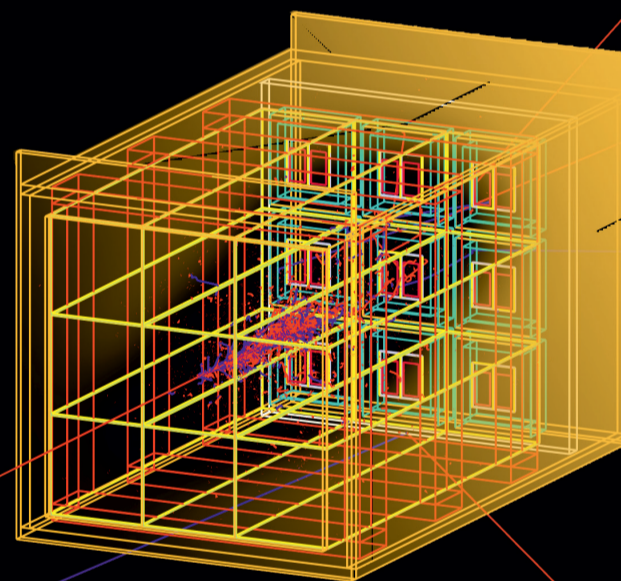
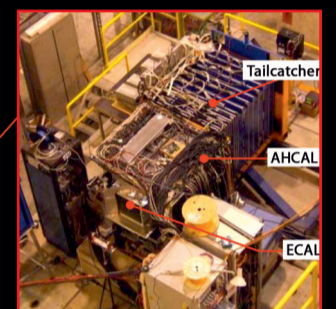
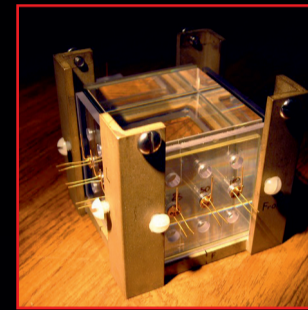
- learn about detector physics - especially in context of calorimetry
- obtain good knowledge about Geant4 and deeper understanding of detector issues using Geant4 simulations
- learn about pro and cons of modern calorimeter approaches, namely PFA and Dual-Readout

Topics

- physics of calorimetry
- Geant4: introduction, geometry, material, particle, processes
- Geant4: electromagnetic physics
- Dual-Readout calorimetry
- Geant4: optical physics, exotics
- Geant4: hadronic physics
- Calice and Particle Flow Algorithm
- validation of Geant4
- student projects and their presentation

Key speakers

- Erika Garutti (DESY)
- Vladimir Ivanchenko (CERN)
- Hermann Kolanoski (HU Berlin)
- Hans Wenzel (FNAL)



Registration deadline is 1 April 2011, the registration fee is 40 Euro.

In case of questions contact anacen@desy.de. For more details and in order to register, please visit the school web page.

<http://www.terascale.de/geant2011>