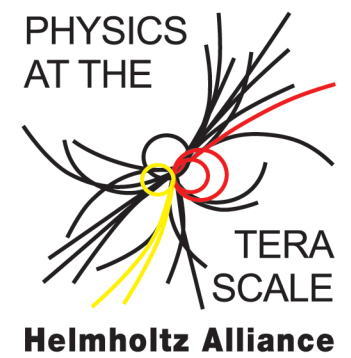


Helmholtz Alliance

PHYSICS AT THE TERASCALE



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Computer Algebra and Particle Physics CAPP 2011

20–25 March 2011

DESY, Zeuthen

The CAPP school combines theory and practice in an advanced environment. It provides education and training of students and young researchers at graduate and Ph.D. level on central topics at the interface of modern computer algebra and particle physics. The courses include exercises and practical hands-on training with modern software.

Lectures and Courses

- | | |
|----------------------------------------|------------------------------------------------------------|
| J. Gluza (Katowice), T. Riemann (DESY) | <i>Feynman integrals and Mellin-Barnes representations</i> |
| A. Grozin (Novosibirsk) | <i>Integration-by-parts: all you ever wanted to know</i> |
| T. Hahn (MPI Munich) | <i>Introduction to Mathematica, FeynArts and FormCalc</i> |
| M. Kauers (RISC Linz) | <i>Algorithms for holonomic functions</i> |
| D. Kosower (Saclay) | <i>Visions on computer algebra and particle physics</i> |
| P. Uwer (HU Berlin) | <i>Monte Carlo methods in particle physics</i> |
| J. Vermaseren (Nikhef) | <i>Introduction to FORM</i> |

Organizing Committee: S. Moch, T. Riemann, P. Wegner · Secretary: M. Mende

The school fee is 100 € before 15 February 2011, 125 € after 25 February 2011. Registration deadline is 28 February 2011.

For more details and in order to register, please go to the school home page <http://indico.desy.de/event/CAPP2011>

<http://www.terascale.de/capp2011>