

X International Workshop on Advanced Computing and Analysis Techniques in Physics Research



ACAT05



May 22–27, 2005, DESY, Zeuthen, Germany

Topics

I. Computing Technology and Environment for Physics Research

- Parallel and Vector Computing Technologies and Applications
- Distributed Computing: Tools for the GRID
- Data Fabric and Data Management
- Online Monitoring and Control
- Software Engineering
- Graphic User Interfaces, Common Libraries

II. Data Analysis - Algorithms and Tools

- Neural Networks and Other Pattern Recognition Techniques
- Evolutionary and Genetic Algorithms
- Advanced Data Analysis Environments
- Statistical Methods
- Detector and Accelerator Simulations
- Reconstruction Algorithms

III. Simulations and Computations in Theoretical Physics and Phenomenology

- Automatic Computation Systems: from Processes to Event Generators
- Multi-loop Calculations and Higher Order Corrections
- Multi-dimensional Integration and Event Generators
- Intensive High Precision Numerical Computations: Algorithms and Systems
- Computer Algebra Techniques and Applications

Local Organizing Committee

Riemann, Tord
Blümlein, Johannes
Fleischer, Jochem
Friebel, Wolfgang

DESY, Zeuthen
DESY, Zeuthen
Bielefeld Univ.
DESY, Zeuthen

Gensch, Ulrich
Kasemann, Matthias
Naumann, Thomas
Wegner, Peter

DESY, Zeuthen
DESY, Hamburg
DESY, Zeuthen
DESY, Zeuthen

International Advisory Committee

Bhat, Pushpalatha
Brun, Rene
Denby, Bruce
Fleischer, Jochem
Foster, Ian
Gerdt, Vladimir
Gonnet, Gaston
Ilyin, Viacheslav
Kaneko, Toshiaki
Kasemann, Matthias
Kataev, Andrei
Kawabata, Setsuya
Kiesling, Christian
Kunze, Marcel
Lönnblad, Leif

Fermilab, Batavia
CERN, Geneva
Versailles University
Bielefeld University
ANL, Argonne
JINR, Dubna
ETHZ, Zurich
SINP MSU, Moscow
KEK, Tsukuba
DESY, Hamburg
INR RAS, Moscow
KEK, Tsukuba
MPI, Munich
Forschungsz. Karlsruhe
Lund University

Naumann, Thomas
Ohl, Thorsten
Overmann, Peter
Perret-Gallix, Denis
Remiddi, Ettore
Riemann, Tord
Rosner, Robert
Seixas, Jose
Shimizu, Yoshimitsu
Shirkov, Dmitri
Smirniatsky, Alexandre
Vermaseren, Jos
Wegner, Peter
Worlen, Monique

DESY, Zeuthen
Würzburg University
Wolfram Research, Inc.
IAC Chair, CNRS
Bologna University
DESY, Zeuthen
University of Chicago
UFRJ, Rio de Janeiro
KEK, Tsukuba
JINR, Dubna
ITEP, Moscow
NIKHEF, Amsterdam
DESY, Zeuthen
LAPTH, Annecy-Le-Vieux

