

JSC Guest Student Colloquium

September 26/27, 2012 — building 16.4, Rotunda



Wednesday, 09-26-2012

9.30 Welcome and Opening Remarks

Sebastian Rupprecht, Augsburg

Design of a parallel, multi-grid, conjugate gradient solver for Reynold's thin film equation

Barbara Schlögl, Würzburg

Embedding plasticity into a parallel Green's function molecular dynamics code

Khaldoon Ghanem, Aachen

Visualizing Complex Functions Using GPUs

11.35 Lunch

13.00 David M Rodríguez, Salamanca

EPOCH on JUQUEEN and JUVIS

Felix Uhl, Bochum

Efficient Communication Schemes for Stochastic Thermostats in parallel MD Simulations

14.20 Coffee

14.40 Anne Springer, Bonn

Identification of gravity waves in Atmospheric Infrared Sounder temperature data

Kieran Austin, Leipzig

Computer Simulation Experiments in Observation of a universal Boltzmann Distribution

David Haensel, Dresden

Route choice in pedestrian dynamics: Case of Evacuation

Thursday, 09-27-2012

9.30 Opening Remarks

Artur Strebel, Wuppertal

Parallel random numbers: as easy as 1, 2, 3 - John Salmons novel approach to random numbers

Mario Berljafa, Zagreb

A parallel block iterative eigensolver optimized for sequences of correlated eigenproblems

Daniel Arndt, Göttingen

Design and implementation of an experimental Finite Element Solver

11.35 Lunch

13.00 Tommaso Zanca, Ferrara

Graph 500 benchmarking using flash memory cards

Christian Jost, Bonn

Optimization of Lattice QCD kernels for Blue Gene/Q

14.20 Coffee

14.40 Keynote Talk

Dr. Martin Mähler

*Head of IBM University Relations
IBM Global Technology Outlook*

15.40 Concluding Remarks