

Guest Student Colloquium 2018

Monday, 1st October 2018
Tuesday, 2nd October 2018

Rotunda, 16.4, JSC

Program: see back

Keynote

Ingolf Wittmann – IBM

The Computer That Could Be Smarter Than Us – Cognitive Computing

Monday, 1st October 2018

9.30 • Opening Remarks & Session I

Luis Altenkort

Optimization of LQCD Kernels on x64 Architectures

Justin Loye

Lattice Gauge Field Generation on KNL Architecture

10.40 • Coffee Break ☕

11.00 • Session II

Manuel Krage

Transport Simulation for Climate Modelling

Edilbert Christhuraj

Extrapolated Stabilized Explicit Runge-Kutta Methods

12.10 • Lunch 🍴

14.00 • Session III

Michael Innerberger

Task-Based Distributed Memory Parallelization of the FMM

Morian Sonnet

Scalable Electrostatics for a Box Full of Atoms

15.10 • Coffee Break ☕

15.30 • Keynote Talk ☆

Ingolf Wittmann

Technical Director & Leader of HPC DACH & Europe

The Computer That Could Be Smarter Than Us – Cognitive Computing

16.40 • Open Discussion 💬

Tuesday, 2nd October 2018

9.30 • Opening Remarks & Session IV

Aleksandr Boitsov

Axion String Simulations

David Immel

Adaptive Dynamic Load Balancing with Voronoi Cells

10.40 • Coffee Break ☕

11.00 • Session V

Johannes Wasmer

Visualization of Hierarchical Performance Data Using Treemaps

Petros Anastasiadis

Analyzing I/O Behaviour on High Performance Computing Systems

12.10 • Lunch 🍴

14.00 • Session VI

Lucas Kersken

Parallel-In-Time Integration with XBraid for an Allen-Cahn-System

Felix Huber

Efficient Solver for Hines Matrices on GPUs

15.10 • Concluding Remarks