

Center for Computational Sciences PhD student and Postdoc Workshop

Kaub am Rhein, 18.09. - 20.09.2013

Program

Talks: 15 min + 10 min for discussion

Wednesday 18.09.:

13:45 Welcome

14:00	Anne Bicker	Regulation and Function of the MB Gene in Cancer
14:25	Fabian Ripp	All-Food-Seq (AFS): A Quantifiable Screen for Species in Biological Samples by Deep DNA Sequencing
14:50	Hanno Schmidt	Gene Expression Modulation in the Blind Mole Rat SPALAX
Coffee Break		
15:50	Thakurela Sudhir	Computational Tools for Computational Genomics
16:15	Benjamin Müller	QCD on a Lattice
16:40	Dmitry Ivanizki	An Inverse Problem by Scale Bridging in the Simulation of Soft Matter

18:00 Dinner

Thursday 19.09.:

09:00	Stefan Jaschonek	Reversible Hydrogen-Bond Network Dynamics studied by Force Probe Molecular Dynamics Simulations
09:25	Dorothee Richters	Calculating EPR Spectra with MATLAB and EasySpin
09:50	Daniel Rost	Exact Quantum Monte Carlo Methods for Correlated Electron Systems
Coffee Break		
10:50	Niklas Kolbe	Numerical Simulation of Cancer Tumor Invasion
11:15	Esther Hans	Global Convergence of Damped Semismooth Newton Methods for Tikhonov Regularization
11:40	Georgij Bispen	Semi-Implicit Large Time-Step Schemes for the Shallow Water Equations

12:30 Lunch

13:30 Rheinsteig hike

18:30 Barbecue

Friday 20.09.:

09:00	Adina-Erika Püsök	3D Numerical Modelling of India-Asia Collision Zone
09:25	Dr. Adrianto Wirawan	A Parallel Multistage Homopolymer Spectrum Based Error Corrector for 454 Sequencing Data
09:50	Kolja Becker	Reverse Engineering Gene Regulatory Networks in <i>Drosophila Melanogaster</i>
Coffee Break		
10:50	Dr. Nikolaos Sfakianakis	A Finite Element Simulation of the Lamellipodium of Living Cells
11:15	Konstantin Hallmann	tba
11:40	Tobias Baumann	Constraining the Rheology of the Lithosphere through Joint Geodynamic and Gravity Inversion

Departure