

Center for Computational Sciences PhD student and Postdoc Workshop

Hoechst im Odenwald, 30.09. - 02.10.2015

Program

Talks: 15 min + 10 min for discussion

Wednesday 30.09.:

13:45 Welcome

14:00	Aviel Chaimovich	Relative Resolution: A hybrid Formalism for Fluid Mixtures
14:25	Paul Strasser	Modeling of polymers in a solvent mixture of viscoelastic and Newtonian fluids
14:50	Georgij Bispen	IMEX schemes for low Froude/Mach number flows
Coffee Break		
15:50	Dmitry Ivanizki	An inverse problem in the simulation of soft matter
16:15	Pablo Mier	FastaHerder2: four ways to research protein function and evolution with clustering and clustered databases
16:40	Ulrich Heil	Results and numerical problems within the SRFN project "Automated motion detection in dental cone-beam CT"

18:00 Dinner

Thursday 01.10.:

09:00	Kolja Becker	Reverse-Engineering the Transcriptional Regulation Network Controlling Epithelial-to-Mesenchymal Transition
09:25	Niklas Kolbe	Mathematical modelling of the Epithelial Mesenchymal-Transition in cancer invasion
09:50	André Kesser	Combining a Lipid and a Peptide model

Coffee Break

10:50	Marlene Baumgart	Quantifying forecast error growth in a potential vorticity-potential temperature framework
11:15	Christian Euler	Characterization of Air Mass motion in the vicinity of a tropical Cyclone using Lagrangian coherent structures
11:40	Jonathan Tammo Siebert	Phase Behavior of Active Brownian Particles

12:30 Lunch

13:30 Social Event / Hike

18:30 Barbecue

Friday 02.10.:

09:00	Steven Schneider	Atmospheric Circulation in a Permian Climate
09:25	Lisa Rummel	Coupling geodynamic with thermodynamic modelling
09:50	Gerhard Jung	Projection operator techniques in non-equilibrium statistical mechanics

Coffee Break

10:50	Esther Hans	Efficient minimization of ℓ_1 -penalized strictly convex objective functions
11:15	Nils Asmussen	Hadronic light-by-light contribution to the muon $g-2$ from lattice QCD
11:40	Benjamin Mueller	A flexibly-preconditioned QMR solver for large non-hermitian linear systems

12:30 Lunch

13:30 Departure