

Program September 11th to 13th

Wednesday, 11.09.2019

11:00 – 11:10	Opening remarks	
Session 1 (Chair: Markus Bachmayr)		
11:10 – 12:00	Thomas Speck	<i>Multiscale modeling out of equilibrium</i>
12:00 – 13:30	<i>Lunch</i>	
Session 2 (Chair: Mária Lukáčová)		
13:30 – 14:00	Dominic Spiller	<i>Spinodal decomposition of polymer-solvent systems</i>
14:00 – 14:30	Bettina Wiebe	<i>Uncertainty quantification for cloud simulation</i>
14:30 – 15:00	Nikolas Porz	<i>Unique solvability of a system of ordinary differential equations modeling a warm cloud parcel</i>
15:00 – 16:00	<i>Coffee break / room occupation</i>	
16:00 – 16:30	Andreas Schömer	<i>Existence of dissipative measure-valued solutions for the compressible Navier-Stokes equations with entropy transport</i>
16:30 – 17:00	Simon Schneider	<i>Lax-Friedrichs scheme for the compressible Euler system</i>
17:00 – 17:30	Aaron Brunk	<i>Viscoelastic phase separation: existence, relative energy and simulations</i>

Thursday, 12.09.2019

7:30 – 9:00	<i>Breakfast</i>	
Session 3 (Chair: Markus Bachmayr)		
9:00 – 9:30	Sascha Lang, Jonas Hamann, Alexander Mroß	<i>Time-dependent Stokes problem using the example of earth's mantle</i>
9:30 – 10:00	Stephanie Schwab, Manfred Faldum, Aaron Meinel	<i>Non-Newtonian rheology in mantle convection</i>
10:00 – 10:45	<i>Coffee break</i>	
10:45 – 11:15	Martin Dönges	<i>Tensor networks and high-dimensional eigenvalue problems</i>
11:15 – 11:45	Niklas Bockius	<i>An estimation method for the generalized Langevin equation</i>
12:00 – 13:30	<i>Lunch</i>	
Social program		
14:00 – 18:30	<i>Hike</i>	
19:00 – 22:00	<i>Barbecue</i>	

Friday, 13.09.2019

7:30 – 9:00 *Breakfast / leaving rooms*

Session 4 (Chair: Claus Schneider)

9:00 – 9:30 Mara Czich

Analysis of the parameter space for selected traffic scenarios

9:30 – 10:00 Marvin Bernhardt

Gauss-Newton method with pressure constraint for implicit solvent models of methanol in water

10:00 – 10:45 *Coffee break*

10:45 – 11:15 Lukas Holbach

A Bayesian level set method for identifying subsurface structures in nonlinear Stokes flow

11:15 - 11:45 Van Kien Nguyen

Quasi-Monte Carlo methods for elliptic eigenvalue problems with stochastic coefficients

12:00 - 13:30 *Lunch*

Session 5 (Chair: Martin Hanke-Bourgeois)

13:30 – 14:00 Ramesh Kolluru

Novel, robust and accurate central solvers for real and dense gases

14:00 – 14:30 Igor Voulis

Space-time methods for parabolic problems with linear constraints

