

Program September 12th to 14th

Wednesday, September 12th

10:50–11:10 Arrival

Session 1 *Chair:*

11:10–11:40 Markus Bachmayr Computational complexity of adaptive methods for random PDEs

11:50–12:20 Martin Dönges Tensor networks and highdimensional eigenvalue problems

12:30–13:30 *Lunch (Menu)*

Session 2 *Chair:*

14:00–14:30 Nikolas Porz A semi-implicit time integration scheme for warm cloud micro physics

14:40–15:10 Yvonne Ruckstuhl tba

15:20–16:00 *Coffee, Cake*
Room occupation

16:00–16:30 Maria Lukacova Convergence of finite volume methods for the Euler equations via dissipative measure-valued solutions

16:40–17:10 Aaron Brunk Analysis and numerics of a two-phase viscoelastic phase separation model of Peterlin-type

17:20–17:50 Paul Strasser Numerical analysis and simulation of viscoelastic phase field models for polymer-solvent mixtures

Thursday, September 13th

08:00–09:00 *Breakfast (Buffet)*

Session 3 *Chair:*

09:00–09:30 Fabio Frommer The Henderson-problem

09:40–10:10 Julian Frech Error analysis of stochastic Stokes and Navier-Stokes equation

10:20–10:40 *Coffee*

10:40–11:10 Manuel Baumgartner Homogeneous nucleation from an asymptotic point of view

11:20–11:50 Juliane Rosemeier Combing a stroboscopic method with the spectral deferred correction method

12:00–13:00 *Lunch (Menu)*

13:20–18:30 *Hike* Train to Lorch 13:36, track 2; Rheinsteig Etappe 6

19:00–22:00 *Social Event*

Friday, September 14th

08:00–08:30 *Breakfast (Buffet)*

08:30–09:00 *Leaving the rooms*

Session 4

Chair:

09:00–09:30 Van Kien Nguyen Identifiability of diffusion coefficients for source Terms of non-uniform
sign

09:40–10:10 Sebastian Krämer Stable low-rank and off-grid approximate interpolation in tree tensor
formats

10:20–10:40 *Coffee*

10:40–11:10 Bettina Wiebe A stochastic Galerkin method for cloud simulation

11:20–11:50 Simon Schneider & Andreas Schömer Uncertainty quantification for a cloud model

12:00–13:00 *Lunch (Menu)*

Session 5

Chair:

13:00–13:30 Mara Czych A stochastic predator-prey model

13:40–14:10 Tobias Kremer tba

14:20–14:50 *Coffee, Cake*

14:50–15:20 Raul Borsche Kinetic layers and coupling conditions for hyperbolic PDEs on networks

15:30–16:00 Ankit Ruhi Continuum-kinetic hybrid model for complex fluids