

September 8 – 10, 2021

Wednesday, September 8th

Session 1 (chair: Markus Bachmayr)

11:15 – 11:30 opening remarks

11:30 – 12:00 Martin Dönges *Tensor networks and large-scale eigenvalue problems*

12:00 – 14:00 lunch break / check-in

Session 2 (chair: Tijana Janjic Pfander)

14:00 – 14:30 Peter Spichtinger *A hierarchy of ice cloud models*

14:30 – 15:00 Stephanie Schwab *Adaptive Multilevel Monte Carlo Sampling and Collocation for Processes of Cloud Formation*

15:00 – 15:30 Lukas Holbach *A Bayesian Level Set Method for Identifying Sub-surface Structures in Stokes Flow*

15:30 – 16:00 coffee break

Session 3 (chair: Martin Hanke-Bourgeois)

16:00 – 16:30 Fabio Frommer *The relative entropy functional in the thermodynamical limit*

16:30 – 17:00 Niklas Bockius *Computing Extended Markov Parameterizations for the Generalized Langevin Equation*

18:00 – 19:00 dinner

Thursday, September 9th

8:00 – 9:00 breakfast

Session 4 (chair: Philipp Öffner)

9:00 – 9:30 Markus Bachmayr *Adaptive low-rank methods for high-dimensional parabolic equations*

9:30 – 10:00 Igor Voulis *A near-optimal adaptive Galerkin method for random elliptic PDEs*

10:00 – 10:30 Simon Boisserée *A dPG method for nonlinear flows in porous media*

10:30 – 11:00 coffee break

Session 5 (chair: Peter Spichtinger)

11:00 – 11:30 Tijana Janjic Pfander *Learning parameters of a numerical model from observations*

11:30 – 12:10 Bettina Wiebe *Numerical simulations and uncertainty quantification for cloud simulation*

12:10 – 13:30 lunch break

Social events

14:00 – 18:00 hike

18:00 – 19:00 dinner

Friday, September 10th

8:00 – 9:30 breakfast

Session 6 (chair: Andrea Thomann)

9:30 – 10:00 Martin Hanke-Bourgeois *Unique determination of an insulating inclusion by a single pair of boundary current/voltage data*

10:00 – 10:30 Andreas Schömer *Measure-valued solutions to the compressible Navier-Stokes equations with potential temperature transport*

10:30 – 11:00 coffee break

Session 7 (chair: Igor Voulis)

11:00 – 11:30 Andrea Thomann *An all-speed scheme for isentropic two phase flow*

11:30 – 12:00 Philipp Öffner *On stability of positivity-preserving Patankar-type time integration methods*

12:00 – 13:30 lunch break / check-out