

YRM: Young Researchers Meeting (26.-27.03.2018)
CSE: Computational Science & Engineering Workshop
(27.-29.03.2018)

Time	Monday, 26.03.2018	Tuesday, 27.03.2018
09.00 - 9.30	Arrival	Evelyn Herberg (Universität Hamburg) <i>Time-sparse discretization for parabolic optimal control with measures</i>
09.30 - 10.00		Janek Meyer (Universität zu Kiel) <i>Development of a new OpenFOAM solver for free-surface flows</i>
10.00 - 10.30		Coffee break
10.30 - 11.00		Evaluation
11.00 - 11.30		Jens-Peter M. Zemke (Technische Universität Hamburg) <i>How to give a good talk</i>
11.30 - 12.00		
12.00 - 13.00	Lunch	Lunch
13.00 - 13.30		
13.30 - 14.00	Registration and Introduction YRM	Registration and Introduction CSE Workshop
14.00 - 14.30	Eduard Frick (Technische Universität Hamburg) <i>Polynomial chaos: applications in electrical engineering and bounds</i>	Plenary Session: Carola-Bibiane Schönlieb (University of Cambridge) <i>Learning of variational models for inverse imaging problems</i>
14.30 - 15.00	Alessandro Cotronei (Universität zu Kiel) <i>Use of single precision in climate models</i>	
15.00 - 15.30	Markus Pfeil (Universität zu Kiel) <i>Simulation of marine ecosystem models with coarser time steps and different initial values</i>	Jan Modersitzki (Universität zu Lübeck) <i>Hyperelastic Image Registration</i>
15.30 - 16.00	Coffee break	Coffee break
16.00 - 16.30	Benedict Philippi (Universität zu Kiel) <i>A Parallel In Time algorithm for Shallow Water Equations</i>	Thomas Slawig (Universität zu Kiel) <i>Methods of Uncertainty Quantification in Marine Ecosystem Models</i>
16.30 - 17.00	Niklas Kühl (Technische Universität Hamburg) <i>Adjoint Complement to the Volume-of-Fluid Method</i>	Matthias Beckmann (Universität Hamburg) <i>Saturation Rates for Filtered Back Projection Reconstructions</i>
17.00 - 17.30	Joscha Reimer (Universität zu Kiel) <i>Approximation of Hermitian Matrices by Positive (Semi-)Definite Matrices using Modified LDL* Decompositions</i>	Mijail Guillemard (Technische Universität Hamburg) <i>Clifford algebras and simplicial complexes</i>
17.30 - 18.00	Florian Noethen (Universität Hamburg) <i>Convergence of Ginelli's algorithm for covariant Lyapunov vectors</i>	Jens-Peter M. Zemke (Technische Universität Hamburg) <i>Lanczos' Algorithm in Finite Precision and Quantum Mechanics</i>
18.00 - 19.00	Dinner	Dinner
19.00 -	Network activities	Get together

Time	Wednesday, 28.03.2018	Thursday, 29.03.2018
09.00 - 10.00	Plenary Lecture: Philipp Birken (Lund University) <i>Multiscale Multiphysics on Multicore Machines</i>	Plenary Lecture: Ira Neitzel (Universität Bonn) <i>Optimal control of a regularized fracture propagation problem</i>
10.00 - 10.30	Anne Gerdes (Universität Hamburg) <i>Fluid Dynamic Optimization of HVAC-Components with Adjoint Methods</i>	Christian Kahle (Technische Universität München) <i>Optimal control of the fractional Laplace equation</i>
10.30 - 11.00	Coffee break	Coffee break
11.00 - 11.30	Jaroslaw Piwonski (Universität zu Kiel) <i>From unit cube to real world problem</i>	Michael Hinze (Universität Hamburg) <i>A fully certified reduced basis method for optimal control of PDEs with control constraints (joint work with Ahmad Ahmad Ali)</i>
11.30 - 12.00	Ulrich Matthes (Universität Hamburg) <i>Parallel in Time Computation with the ECHAM6 Climate Model</i>	Carmen Gräßle (Universität Hamburg) <i>Combining POD Model Order Reduction with Adaptivity</i>
12.00 - 12.30	Claus Goetz (Universität Hamburg) <i>Anti-diffusive flux corrections for high order finite volume transport schemes</i>	Armin Iske (Universität Hamburg) <i>Kernel matrices with off-diagonal decay</i>
12.30 - 13.30	Lunch	Lunch
13.30 - 14.00	Sara Krause-Solberg (Technische Universität München) <i>One-Bit Compressed Sensing on Manifolds</i>	Departure
14.00 - 14.30	Hannes von Allwörden (Universität Hamburg) <i>From Circular Road to Infinite Lane: Stability Results for Microscopic Optimal Velocity Models</i>	
14.30 - 15.00	Benedikt Diederichs (Universität Hamburg) <i>Well-posedness of Prony's Problem</i>	
15.00 - 15.30	Coffee break	
15.30 - 16.00	Robin Ahrens (Technische Universität Hamburg) <i>Efficient numerical treatment of multivariate population balance equations</i>	
16.00 - 16.30	Michael Wende (Technische Universität Hamburg) <i>H-matrix preconditioners for scattered data approximation</i>	
16.30 - 17.00	Sabine Le Borne (Technische Universität Hamburg) <i>Toward stable computations in RBF interpolation problems</i>	
17.00 - 19.00		
19.00 -	Dinner at Restaurant „Alte Schwimmhalle“	