

# Schedule Young Researchers Meeting and CSE Workshop

Time	Tuesday, 21.03.17	Wednesday, 22.03.17
9.00 - 9.30	Arrival	Kühl, N. <i>Geometric inequality constraints in continuous adjoint shape optimization</i>
9.30 - 10.00		Behr, M. <i>Solution representation and approximation of differential Lyapunov and Sylvester equation</i>
10.00 - 10.30		Coffee break
10.30 - 11.00		Do's and Dont's for scientific publications
11.00 - 11.30		M. Hinze
11.30 - 12.00		
12.00 - 13.00	Lunch	Lunch
13.00 - 13.30	Registration and Introduction YRM	Registration and Introduction CSE Workshop
13.30 - 14.00	Network activities	Lecture Martin Stoll
14.00 - 14.30	Scharmacher, N. <i>DEIM in TRPOD for optimal control of semilinear parabolic equations</i>	<i>Low-rank methods in optimization with PDEs</i>
14.30 - 15.00	Coffee break	Le Borne, S. <i>Reducing computational complexity in scattered data interpolation</i>
15.00 - 15.30		Heitmann, S. <i>A higher-order tensorial Newton method</i>
15.30 - 16.00	Karriereorientierung / Karriereentwicklung S. Schönbach-Fuleda	Coffee break
16.00 - 16.30		Slawig, T. <i>Uncertainty quantification in marine ecosystem models</i>
16.30 - 17.00		Ahlkrona, J. <i>The p-Stokes equation with glaciological applications</i>
17.00 - 17.30		Matthes, U. <i>Towards parallel-in-time computation speed up with POD-DEIM model order reduction and multi-grid methods for very long term climate simulations</i>
17.30 - 18.00		Kulchytska-Ruchka, I. <i>Acceleration of FEM computations for induction machines</i>
18.00 - 19.00	Dinner	Dinner
19.00-...	Network activities	Poster blitz and Come together

Time	Thursday, 23.03.17	Friday, 24.03.17
9.00 - 10.00	Lecture Fredi Tröltzsch <i>Optimal and feedback control of wave-type solutions of reaction-diffusion equations</i>	Lecture Andrea Walther <i>Minimization of piecewise smooth functions by piecewise linearization</i>
10.00 - 10.30	Ali, A. <i>Error analysis of semilinear elliptic control problems</i>	Kaya, U. <i>Finite element methods with convection stabilization and local subgrid problems</i>
10.30 - 11.00	Coffee break	Coffee break
11.00 - 11.30	Tran, Q. <i>Inverse source problem in elliptic equations from boundary observations</i>	Gerdes, A. <i>Fluid dynamic optimization of HVAC-components with adjoint methods</i>
11.30 - 12.00	Knopf, P. <i>Optimal control of Vlasov-Poisson plasma by an external magnetic field</i>	Gräßle, C. <i>POD reduced order modeling for evolution equations utilizing arbitrary finite element discretizations</i>
12.00 - 12.30	Weber, J. <i>Optimal control of the two-dimensional Vlasov-Maxwell system</i>	Hinze, M. <i>Adaptive snapshot location strategies in POD MOR</i>
12.30 - 13.30	Lunch	Lunch
13.30 - 14.00	Roggensack, A. <i>Damage processes in lithium-ion batteries</i>	Departure
14.00 - 14.30	Goetz, C. <i>A family of HLL-type solvers for the generalized Riemann problem</i>	
14.30 - 15.00	Diederichs, B. <i>Improved estimates for condition numbers of RBF matrices</i>	
15.00 - 15.30	Iske, A. <i>Scattered data approximation by weighted kernels</i>	
15.30 - 16.00	Coffee break	
16.00 - 16.30	Kahle, C. <i>Topology optimization in Navier-Stokes flow with a diffuse interface approach</i>	
16.30 - 17.00	Schumacher, H. <i>On the <math>H^2</math>-gradient flow for the Willmore energy</i>	
17.00 - 17.30	Kröner, H. <i>Optimal control of elliptic surface pdes with pointwise bounds on the state</i>	
17.30 - 18.00	Krause-Solberg, S. <i>A tractable approach for one-bit compressed sensing on manifolds</i>	
18.00 - 19.00	break and walk to the restaurant	
19.00-...	Conference-Dinner	