

Wednesday, July 1

08.30-09.30	Claude Le Bris, <i>Some recent theoretical and numerical contributions to stochastic homogenization and related problems</i> , chair Rolf Rannacher room H3						
09.30-10.00	Coffee break						
10.00-11.00	Rob Stevenson, <i>Adaptive wavelet methods for solving operator equations: An overview</i> , chair Rolf Rannacher room H3						
Room	H1	H2	H3	H4	A114	A144	B153
11.00-12.00	C19 Schrödinger equations I	C20 Preconditioning techniques	C22 Flow problems I	C18 Discontinuous Galerkin finite element methods II	C17 Optimal Control problems II	C21 Interface dynamics II	
12.00-18.00	Free afternoon for excursions						

Wednesday, July 1, Morning 11:00-12:00

C17: Contributed session: Optimal control problems II chair Martin Berggren

- 11:00-11:20 Aurea Martinez, Optimal control for river pollution remediation
 11:20-11:40 Thomas Flaig, Simulation and optimal control of the hydration of concrete for avoiding cracks
 11:40-12:00 Derya Altintan, Generalized multi-stage Variational Iteration method

C18: Contributed session: Discontinuous Galerkin finite element methods II chair Emmanuil Georgoulis

- 11:00-11:20 Mohammad Asadzadeh, On convergence of a discontinuous Galerkin finite element method for the Vlasov-Poisson-Focke-Planck system
 11:20-11:40 Jiri Hozman, A priori error estimates for DGFEM applied to non-stationary non-linear convection-diffusion equation
 11:40-12:00 Miloslav Vlasak, Analysis of semi-implicit time discontinuous Galerkin

C19: Contributed session: Schrödinger equations I chair Gunilla Kreiss

- 11:00-11:20 Katharina Kormann, Global error control for the simulation of the time-dependent Schrödinger equation
 11:20-11:40 Athenassios Bratsos, A modified numerical scheme for the cubic Schrödinger and the modified Burgers' equation
 11:40-12:00 Kenneth Duru, Perfectly matched layer for 1-D and 2-D Schrödinger wave equations

C20: Contributed session: Preconditioning techniques chair Maya Neytcheva

- 11:00-11:20 Atsushi Suzuki, Iterative substructuring method with balancing preconditioner for linear system with coercive matrix
 11:20-11:40 Mehooz ur Rehman, Block preconditioners for the incompressible Stokes problem
 11:40-12:00 Micol Pennacchio, Algebraic multigrid preconditioners for a reaction-diffusion system of equations in electrocardiology

C21: Contributed session: Interface dynamics II chair Minh Do-Quang

- 11:00-11:20 Hung Hoang Dieu, Numerical simulations of epitaxial growth by phase-field method
 11:20-11:40 Martin Kronbichler, A conservative level set model for two-phase flow with Cahn-Hilliard contact line dynamics
 11:40-12:00 Stefan Turek, FEM techniques for incompressible multiphase flow based on level set and phase field approaches

C22: Contributed session: Flow problems, I chair Gunilla Efrainsson

- 11:00-11:20 Tomas Morales de Luna, On a sediment transport model in shallow water equations with gravity effects
 11:20-11:40 Georgy Kobelkov, Finite difference method for solution of tidal wave equations
 11:40-12:00 Gladys Narbona-Reina, A shallow water model for viscoelastic fluid from the kinetic theory of polymer solutions