

WORKSHOP PROGRAM

Numerical Methods for Evolution Equations Heraklion, Crete, September 21-22, 2012

Friday, September 21

9:15-9:30	Opening
	Chairman: Vidar Thomée
9:30-10:00	Christian Lubich (U. Tübingen) <i>Stable FEM & BEM & leapfrog & convolution quadrature coupling for the wave equation.</i>
10:00-10:30	César Palencia (U. Valladolid) <i>Operational calculus for Runge-Kutta quadrature operators.</i>
10:30-11:00	Sören Bartels (U. Freiburg) <i>Approximation of the elastic flow of inextensible curves and large bending isometries.</i>
<i>Coffee Break</i>	
	Chairman: Dietmar Kröner
11:30-12:00	Stig Larsson (Chalmers U. of Technology) <i>Weak convergence of finite element approximations of semilinear parabolic stochastic PDEs.</i>
12:00-12:30	Raphaële Herbin (U. Marseille) <i>Staggered schemes for compressible flows.</i>
12:30-13:00	Kunibert Siebert (U. Stuttgart) <i>Adaptive space-time finite elements for parabolic problems.</i>
<i>Lunch Break</i>	
	Chairman: Patrick Joly
14:30-15:00	Alexander Ostermann (U. Innsbruck) <i>Strang splitting for Vlasov-type equations.</i>
15:00-15:30	Emmanuil Georgoulis (U. Leicester) <i>Discontinuous Galerkin methods for mass transfer through semi-permeable membranes.</i>
15:30-16:00	Angela Kunoth (U. Paderborn) <i>Adaptive approximations of control problems constrained by parametric parabolic PDEs</i>
<i>Coffee Break</i>	
	Chairman: Christian Lubich
16:30-17:00	Maria López-Fernández (U. Zürich) <i>Variable time-stepping for retarded potentials.</i>
17:00-17:30	Irene Kyza (FORTH) <i>Error control and adaptivity for Schrödinger equations.</i>
17:30-18:00	Theodoros Katsaounis (U. Crete) <i>A finite volume method for dispersive wave propagation.</i>

Saturday, September 22

	Chairman: Giuseppe Savaré
9:30-10:00	Patrick Joly (INRIA) <i>Asymptotic modelling of electromagnetic wave propagation in co-axial cables.</i>
10:00-10:30	Andreas Prohl (U. Tübingen) <i>Space-time discretization of the stochastic incompressible Navier-Stokes equation.</i>
10:30-11:00	Jacques Rappaz (EPFL) <i>Finite element approximation of a nonlinear stationary Stokes problem arising in Glaciology.</i>
Coffee Break	
	Chairman: Babis Makridakis
11:30-12:00	Dietmar Kröner (U. Freiburg) <i>Phasefield models for flows with phase transition.</i>
12:00-12:30	Dimitra Antonopoulou (U. Crete) <i>A posteriori analysis for space-time, discontinuous in time, Galerkin approximations for parabolic equations in a variable domain.</i>
12:30-13:00	Alexandre Ern (U. Paris) <i>On stabilization for conservation laws.</i>
Lunch Break	
	Chairman: Jacques Rappaz
14:30-15:00	Thierry Gallouet (U. Marseille) <i>Convergence of gradient schemes for the Stefan problem.</i>
15:00-15:30	Michael Plexousakis (U. Crete) <i>Discontinuous Galerkin methods for the linear Schrödinger equation in non-cylindrical coordinates.</i>
15:30-16:00	Georgios Akrivis (U. Ioannina) <i>Implicit-explicit multistep methods for nonlinear parabolic equations.</i>
Coffee Break	
	Chairman: César Palencia
16:30-17:00	Angel Duran (U. Valladolid) <i>The Petviashvili method and its applications to generate solitary waves.</i>
17:00-17:30	Dimitrios Mitsoudis (FORTH) <i>Helmholtz equation in a 2D waveguide with artificial boundaries.</i>