

RIPE60 - PROGRAMME

Tuesday 24

09:20 – 09:30	Opening
09:30 – 10:00	Jürgen Sprekels: <i>Experiencing the friendship of a great personality: almost twenty years of cooperation with Pavel Krejčí</i>
10:00 – 10:30	Philippe Laurençot: <i>A free boundary problem modelling a microelectromechanical system</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	Pierluigi Colli: <i>Phase field systems of viscous Cahn-Hilliard type</i>
11:30 – 12:00	Olaf Klein: <i>Classification of hysteresis operators for vector-valued inputs by using their representation as functions on strings</i>
12:00 – 12:30	Maurizio Grasselli: <i>Nonlocal Cahn-Hilliard-Navier-Stokes systems: the 2D case</i>
12:30 – 14:30	Lunch Break
14:30 – 15:00	Sergio Frigeri: <i>Cahn-Hilliard-Navier-Stokes systems with nonlocal interactions and optimal control</i>
15:00 – 15:30	Klaus Kuhnen: <i>Rate-independent dissipation in power electronic circuits</i>
15:30 – 16:00	Daniele Davino: <i>Identification of a new class of operators aimed to the modelling of smart materials</i>
16:00 – 16:30	Coffee Break
16:30 – 17:00	Jana Kopfová: <i>Hysteresis in different modelling situations - my math journey with Pavel</i>
17:00 – 17:30	Matthias Liero: <i>On dissipation distances for reaction-diffusion equations - the Hellinger-Kantorovich distance</i>
17:30 – 18:00	Vincenzo Recupero: <i>Polyhedra and variational evolution limits</i>

Wednesday 25

09:00 – 09:30	Gianni Gilardi: <i>On a Cahn-Hilliard type phase field system related to tumor growth</i>
09.30 – 10.00	Alain Miranville: <i>Recent results on the Cahn-Hilliard equation and some of its variants</i>
10:00 – 10.30	Barbara Kaltenbacher: <i>Well-posedness for a thermodynamically consistent model of ferroelectricity and ferroelasticity</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	Dmitrii Rachinskii: <i>Discontinuous Prandtl-Ishlinskii operators and their network connections</i>
11:30 – 12:00	Dietmar Hömberg: <i>Models of induction hardening - an FK limited approach</i>
12.00 – 12.30	Jan Chleboun: <i>A note on optimal node and polynomial degree distribution in one-dimensional hp-FEM</i>
12:30 – 14:30	Lunch Break
14:30 – 15:00	Hana Petzeltová: <i>Mathematical analysis of variable density flows in porous media</i>
15:00 – 15:30	Ciro Visone: <i>The mathematics of hysteresis in the progress of analysis and design of devices exploiting non-reversible processes</i>
15:30 – 16:00	Adrien Petrov: <i>Solvability for elasto-plastic contact problems with heat transfer</i>
16:00 – 16:30	Coffee Break
16:30 – 17:00	Tomáš Roubíček: <i>Various solution concepts in rate-independent evolution systems</i>
17:00 – 17:30	Michela Eleuteri: <i>2004-2014 Story of a ten-years collaboration (with hysteresis)</i>
17:30 – 18:00	Ivan Straškraba: <i>Two phase flow in hydraulics</i>
19:00	Social Dinner

Thursday 26

09:30 – 10:00	Bolzano Prize Ceremony
10:00 – 10:30	Martin Brokate: <i>Differential sensitivity of systems with scalar hysteresis</i>
10:30 – 11:00	Coffee Break
11:00 – 11:30	Jan Franců: <i>Reliable solution of problems with hysteresis operators</i>
11:30 – 12:00	Giulio Schimperna: <i>On a general class of doubly nonlinear equations</i>
12:00 – 12:30	Pavel Drábek: <i>Travelling waves in quasilinear FKPP equation</i>