

## Friday, 8. February 2013

09:00 – 09:45	Registration	
09:45 – 10:00	Opening	
10:00 – 10:45	Gilles Francfort	Homogenization in linear elasticity: a contemplative revisiting
10:45 – 11:15	Patrizia Donato	Homogenization of some singular nonlinear elliptic problems
11:15 – 11:30	Coffee break	
11:30 – 12:00	Sebastian Heinz	On the structure of the quasiconvex hull in planar elasticity
12:00 – 12:30	Paolo Maria Mariano	Stress Constraints in Large Strain Regime
12:30 – 14:00	Lunch	
14:00 – 14:30	Stanisław Stupkiewicz	Modelling of incompatible martensitic microstructures
14:30 – 15:00	Thorsten Bartel	A phase-transformation-plasticity model for polycrystalline materials based on representative crystal orientations
15:00 – 15:30	Ulrich Ehlenbröker	Micromechanical modeling of bainitic phase transformation for multi-variant polycrystalline low alloy steels
15:30 – 16:00	Coffee break	
16:00 – 16:30	Henryk Petryk	Modelling of deformation banding in single crystals undergoing rate-independent multislip
16:30 – 17:00	Anahita Khorashadizadeh	Investigation of formation of different lamination configurations within the orientation space
17:00 – 17:30	Peicheng Zhu	Global solvability via viscosity solutions for a model for solid-solid phase transitions driven by material forces
17:30 – 18:00	Tomáš Roubíček	Modelling of phase transformations in magnetostrictive materials like NiMnGa
18:30	Conference dinner	

## Saturday, 9. February 2013

09:00 – 9:30	Christoph Moos	Modeling of Quasibrittle Damage With an FFT-Based Algorithm
09:30 – 10:00	Dominik Brands	Statistically Similar RVEs for the FE <sup>2</sup> -Simulation of 3D Microstructures
10:00 – 10:30	Hauke Hanke	Derivation of an effective damage model with non-periodic evolving micro-structure
10:30 – 11:00	Benjamin Klusemann	Micromechanical modeling of size effects in amorphous materials
11:00 – 11:30	Coffee break	
11:30 – 12:00	Steffen Mauthe	Variational Gradient Crystal Plasticity for Modeling of Size Effects Coupled with Laminate Microstructure Evolution
12:00 – 12:30	Julia Orlik	Evolutional contact with Tresca friction on a periodic microstructure in the framework of the energetic formulation
12:30 – 14:00	Lunch	
14:00 – 14:30	Keith Anguige	Aspect-ratio dependence of energy lower bounds for a shear experiment in single-crystal plasticity
14:30 – 15:00	David Schrade	Material parameters in phase field models for ferroelectrics
15:00 – 15:30	Markus Schmuck	Upscaled phase-field models for interfacial dynamics in strongly heterogeneous domains
15:30 – 16:00	Coffee break	
16:00 – 16:30	Agnieszka Kałamańska	On one extension of Decomposition Lemma dealing with weakly converging sequences of gradients with application to nonconvex variational problems
16:30 – 17:00	Barbora Benešová	Relaxation via Young measures reflecting the $\det \neq 0$ constraint
17:00 – 17:30	Martin Kružík	Sequential weak continuity of null Lagrangians at the boundary