

## **Speakers and Talks:**

**Annika Bach: (Technical University of Eindhoven)**

Discrete-to-continuum variational analysis for Ising and Spin models

**Marco Bresciani: (FAU Erlangen-Nürnberg)**

Variational models with Eulerian-Lagrangian formulation allowing for material failure

**Luca Briani: (Technical University of Munich)**

A shape optimization problem involving the torsion function and a related hexagonal structure

**Janusz Ginster: (Humboldt University of Berlin)**

Formation of Microstructure for Singularly Perturbed Problems: From Helimagnets to Shape-Memory Alloys and Domain Dependence

**Rossella Giorgio: (Technical University of Vienna)**

Nonlocal justification of antisymmetric exchange functionals.

**Leon Happ: (Technical University of Vienna)**

A scale independent continuous extension operator for maps on microperforated domains mapping into a target manifold

**Tim Heilmann: (Technical University of Munich)**

A Gamma-convergence result for the theory of phase transitions: double-well problem for gradients of vector-valued functions with surfactant

**Melanie Koser: (Humboldt University of Berlin)**

Pattern formation in a two-dimensional frustrated spin system

**Andrea Kubin: (Technical University of Munich)**

On area-preserving mean curvature flow in two dimensions, discrete and continuum analysis

**Lennart Machill: (University of Münster)**

Title: Derivation of von Kármán theories for viscoelastic solids

**Roberta Marziani: (TU Dortmund/University of L'Aquila)**

Non-local approximation of free-discontinuity problems in linear elasticity

**Fumihiko Onoue: (Technical University of Munich)**

Small liquid drops minimizing a long-range interaction energy

**Gianluca Orlando: (Politecnico di Bari)**

Chirality transitions in a frustrated spin model

**Matthias Ruf: (Ecole polytechnique fédérale de Lausanne)**

On the Lavrentiev phenomenon for vector-valued, convex integral functionals

**Giorgio Saracco: (Università di Trento)**

Bijections between isoperimetric sets, prescribed curvature sets, and  $p$ -Cheeger sets

**Antonio Tribuzio: (University of Bonn)**

Scaling laws for multi-well nucleation problems

**Konstantinos Zemas: (University of Münster)**

Energy barriers for boundary nucleation in a two-well model: The gauge-free case