

ERC Workshop on Energy/Entropy-Driven Systems and Applications

Berlin, October 9-11, 2013

Topics

The workshop will focus on the methods and results for evolution problems driven by functionals and applications. Emphasis will be given to gradient flows for free energy or entropy as well as to generalized gradient and rate-independent systems and dissipative Hamiltonian systems, also in a multiscale setting. The issue of the variational approximation of evolution, possibly in the form of suitable evolutionary Γ -convergence notions, will be also covered. The many applications of this wide range of techniques may include thermomechanical and materials modeling, stochastic models, multi-particle systems, transition from discrete to continuum, quantum mechanics, and reaction-diffusion systems.

Speakers

Andrea Braides, Rome

José Carrillo, London

Eduard Feireisl, Prague

Michael Herrmann, Saarbrücken

Ansgar Jüngel, Vienna

Matthias Liero, Berlin

Peter Markowich, Cambridge/Vienna

Daniel Matthes, Munich

Maria Giovanna Mora, Pavia

Elisabetta Rocca, Milan

Riccarda Rossi, Brescia

Giuseppe Savaré, Pavia

André Schlichting, Bonn

Florian Theil, Warwick

Maria Westdickenberg, Aachen

Johannes Zimmer, Bath

Schedule

Lectures are scheduled from Wednesday morning at 9 a.m. until Friday afternoon at 4 p.m. A poster session will take place on Thursday afternoon. Invited lectures will be 40 minutes plus 5 minutes for discussion and contributed lectures will be 25 plus 5 minutes. Please submit abstracts of your talks or posters by June 22, 2013.

Location

The workshop will take place at the Weierstrass Institute for Applied Analysis and Stochastics, which is located in the center of Berlin, in walking distance to most famous sites such as the Brandenburg gate, the Museumsinsel, and the main building of the Humboldt University.

Contact and registration

eedsa13@wias-berlin.de

www.wias-berlin.de/workshops/eedsa13/

Organizers

Karoline Götze, WIAS Berlin

Alexander Mielke, WIAS Berlin

Ulisse Stefanelli, IMATI-CNR Pavia

Venue

Weierstrass Institute

Mohrenstrasse 39

10117 Berlin

Germany

Registration deadlines

Abstract submission: by June 22, 2013

Notification: in July 2013

Registration: by September 1, 2013

Workshop fee: 50 €

www.wias-berlin.de/workshops/eedsa13/

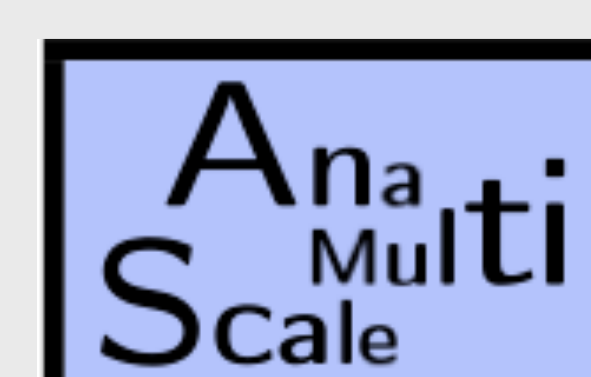
Support



Weierstrass Institute for
Applied Analysis and Stochastics



European Research Council
Established by the European Commission



ERC project:
Analysis of Multiphase Systems
Driven by Functionals