

PDE 2019

Partial Differential Equations in Fluids and Solids

9 – 13 September 2019

Weierstrass Institute Berlin

Weierstrass Institute, Mohrenstrasse 39, 10117 Berlin, Germany
<http://www.wias-berlin.de/workshops/pde2019>
pde2019@wias-berlin.de



This workshop fuses expertise on the analysis of PDEs in solids, fluid dynamics, complex fluids, and interaction of fluids with solid structure.

Its goal is to create new synergies among these fields in order to advance analytical methods for current research related to systems with bulk-interface interaction, geometrically nonlinear materials, and fluid-structure-interaction. This concerns, e.g., Lagrangian and Eulerian descriptions, free boundaries and moving domains, and variational approaches via energy/entropy methods.

Organizers:

Helmut Abels

Karoline Disser

Hans-Christoph Kaiser

Alexander Mielke

Marita Thomas

Confirmed Keynote Speakers:

Barbora Benešová (Prague)

Pierre-Etienne Druet (Berlin)

Eduard Feireisl (Prague)

Harald Garcke (Regensburg)

Yoshikazu Giga (Tokyo)

Céline Grandmont (Paris)

Matthias Hieber (Darmstadt)

Dorothee Knees (Kassel)

Hans Knüpfer (Heidelberg)

Martin Kružík (Prague)

Marta Lewicka (Pittsburgh)

Demetrios Papageorgiou (London)

Riccarda Rossi (Brescia)

Tomáš Roubíček (Prague)

Michael Růžička (Freiburg)

Maria Specovius-Neugebauer (Kassel)

Ulisse Stefanelli (Vienna)

László Székelyhidi Jr. (Leipzig)

Takeo Takahashi (Nancy)

Edriss Titi (College Station)



PDE 2019 will also host a meeting of the activity group “Analysis of PDEs” of the GAMM (Gesellschaft für Angewandte Mathematik und Mechanik/International Association of Applied Mathematics and Mechanics).