Universität Basel

Research Project

Kinetic description of emerging challenges in multiscale problems of natural sciences

Project funded by own resources

Project title Kinetic description of emerging challenges in multiscale problems of natural sciences
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Organisation / Research unit
Departement Mathematik und Informatik / Analysis (Crippa)
Project Website www.ki-net.umd.edu
Project start 13.02.2016
Probable end 28.02.2019
Status Completed
The ultimate goal of this network is the development, analysis and computation of novel kinetic descriptions with particular focus on

– Quantum dynamics with applications to chemistry;
– Network dynamics with applications to social sciences;
– Kinetic models of biological processes.

KI-Net is offering a unique platform to carry out these objectives by fostering cross-fertilization between mathematics and other scientific disciplines. It is centered around three hubs: the Center for Scientific Computation & Math Modeling (CSCAMM) in the University of Maryland, the Institute for Computational and Engineering Science (ICES) at UT Austin, and theăDepartment of Mathematics at the University of Wisconsin-Madison.

Financed by
Other funds

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