



KI-Net: Kinetic description of emerging challenges in multiscale problems of natural sciences

An NSF Research Network in Mathematical Sciences



Conference Announcement

Young Researchers Workshop: Kinetic and Macroscopic Models for Complex Systems

October 14-18, 2013

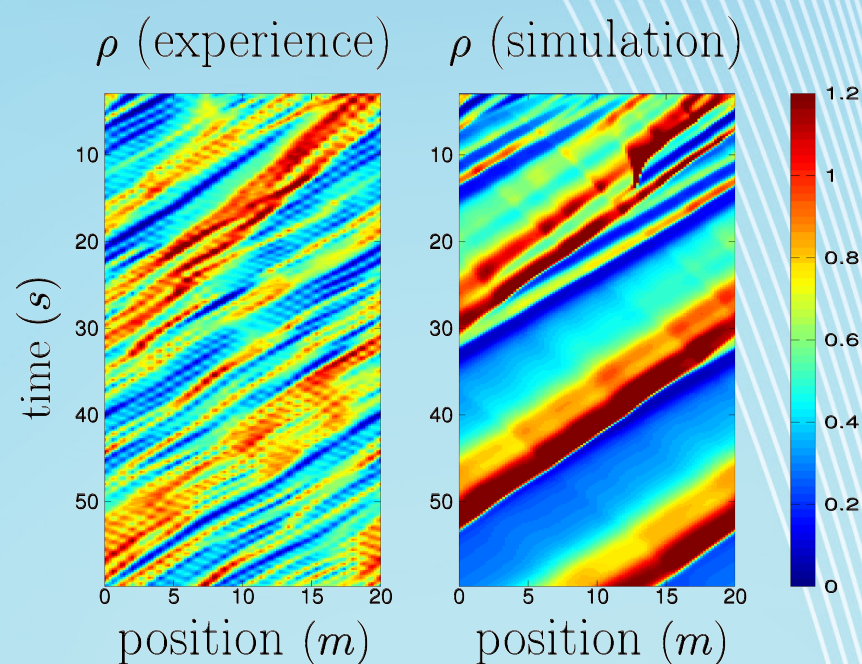
Center for Scientific Computation And Mathematical Modeling
University of Maryland

Organizers

| | |
|-------------------------|--------------------------|
| Stephan Martin | Imperial College London |
| Sébastien Motsch | Arizona State University |
| Thomas Rey | University of Maryland |
| Changhui Tan | University of Maryland |

Confirmed Participants

| | |
|-----------------------------|---------------------------------------|
| Ricardo J. Alonso | Rice University |
| Daniel Balagué | Autonomous University of Barcelona |
| Jacob Bedrossian | New York University |
| Raul Borsche | Technische Universität Kaiserslautern |
| Maria Bruna | University of Oxford |
| Yongyong Cai | Purdue University |
| José Alfredo Cañizo | University of Birmingham |
| Matias G. Delgadino | University of Maryland |
| Simon Garnier | NJIT and Rutgers University |
| Jeff Haack | The University of Texas at Austin |
| Qin Li | University of Wisconsin-Madison |
| Stephan Martin | Imperial College London |
| Tran Minh-Binh | Basque Center for Applied Mathematics |
| Sébastien Motsch | Arizona State University |
| Terrance Pendleton | North Carolina State University |
| Diane Peurichard | Université Paul Sabatier |
| Samuel Punshon-Smith | University of Maryland |
| Thomas Rey | University of Maryland |
| Nancy Rodriguez | Stanford University |
| Jesús Rosado Linares | University of California, Los Angeles |
| Weiran Sun | Simon Fraser University |
| Changhui Tan | University of Maryland |
| Yao Yao | University of Wisconsin-Madison |



Scientific Background

Complex systems are found in new applications, ranging from transport phenomena in biology, through diffusion limits in material science to self-organized hydrodynamics. New open issues in connection with such systems have emerged in recent years, including mathematical models to apprehend the behavior of these complex systems, analytic techniques for the passage from particle systems to macroscopic descriptions, and construction and analysis of modern computational methods which provide invaluable insight into the models.

Goals

To bring together researchers at an early stage in their career to discuss recent exciting developments in modeling and simulation of multiscale phenomena in complex systems via kinetic models.

A limited number of openings are available.

Priority will be given to researchers in the early stages of their career who want to attend the full program, especially for graduate students and post-doctoral fellows. To apply, complete the online application before **August 31, 2013**.

For more information and to apply:
www.ki-net.umd.edu



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