



$$\frac{\partial f}{\partial t} + v \frac{\partial f}{\partial x} + \frac{F}{m} \frac{\partial f}{\partial v} =$$

Workshop Announcement

Kinetic Description of Multiscale Phenomena

The 2011 Annual Kinetic FRG Meeting

May 23-27, 2011

Van Vleck Hall, Department of Mathematics
University of Wisconsin-Madison

Organizers

Shi Jin University of Wisconsin-Madison
Eitan Tadmor University of Maryland

Confirmed Participants

Kazuo Aoki	Kyoto University
Agisilaos Athanasoulis	École Polytechnique
Claude Bardos	University of Paris VII
Andrea Bertozzi	University of California, Los Angeles
Russel Caflisch	University of California, Los Angeles
Peter Constantin	University of Chicago
Miguel Escobedo	University of Bilbao
Gregory Forest	University of North Carolina at Chapel Hill
Irene Gamba	University of Texas at Austin
Francois Golse	École Polytechnique-Paris
Manoussos Grillakis	University of Maryland
Yan Guo	Brown University
Cory Hauck	Oak Ridge National Laboratory
Darryl Holm	Imperial College London
Pierre-Emmanuel Jabin	University of Nice
Shi Jin	University of Wisconsin-Madison
Dave Levermore	University of Maryland
Hailiang Liu	Iowa State University
Tai-Ping Liu	Stanford University
Peter Markowich	University of Cambridge
Benedetto Piccoli	University of Rutgers-Camden
Christian Ringhofer	Arizona State University
Laure Saint-Raymond	École Normale Supérieure
Robert Strain	University of Pennsylvania
Weiran Sun	University of Chicago
Eitan Tadmor	University of Maryland
Athanasios Tzavaras	University of Crete
Bernt Wennberg	University of Gothenburg



Scientific Background

Kinetic descriptions play a critical role in the physical, social, and biological sciences, and have expanded into diverse applications of cutting-edge technology ranging from microfluidics, semiconductors, polymers and plasma to traffic networking and swarming. Modern kinetic theory captures fundamental issues in the modeling and simulation of phenomena across length and time scales, from the atomistic to the continuum. In the context of kinetic theory mathematical approaches help the design of numerical methods and, conversely, numerical simulations help improve the quantitative understanding of underlying complex problems.

A limited number of openings are available.

Limited funding support is available, especially for researchers in the early stages of their career who want to attend the full program. To apply, complete the online application before **March 4, 2011**:

www.cscamm.umd.edu/frg/frg11/rsvp.htm

For more information:

Website: www.cscamm.umd.edu/frg/frg11

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This meeting is in conjunction with Dave Levermore's 60th birthday.

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