Conference Announcement

Young Researchers Workshop:
Multiscale Phenomena: modeling, analysis, and computation
October 27-31, 2014

**Center for Scientific Computation And Mathematical Modeling**
University of Maryland

Organizers

Jacob Bedrossian	University of Maryland
Changhui Tan	University of Maryland

Confirmed Participants

Jacob Bedrossian	University of Maryland
Dana Botesteanu	University of Maryland
Juan Calvo	Universitat Pompeu Fabra
Young-Pil Choi	Imperial College London
Michele Coti Zelati	Indiana University
Tarek Elgindi	New York University
Ulrik Fjordholm	Norwegian University of Science and Technology
Jingwei Hu	The University of Texas at Austin
Qin Li	California Institute of Technology
Lin Lin	Lawrence Berkeley National Laboratory
Lee Ricketson	University of California, Los Angeles
Changhui Tan	University of Maryland
Ian Tobasco	New York University
Magali Tournus	Penn State University
Jinhuan Wang	Duke University
Li Wang	University of California, Los Angeles
Lijiang Wu	Carnegie Mellon University
Xiaoqian Xu	University of Wisconsin-Madison
Cheng Yu	The University of Texas at Austin
Jia Zhao	University of South Carolina
Zhennan Zhou	Duke University
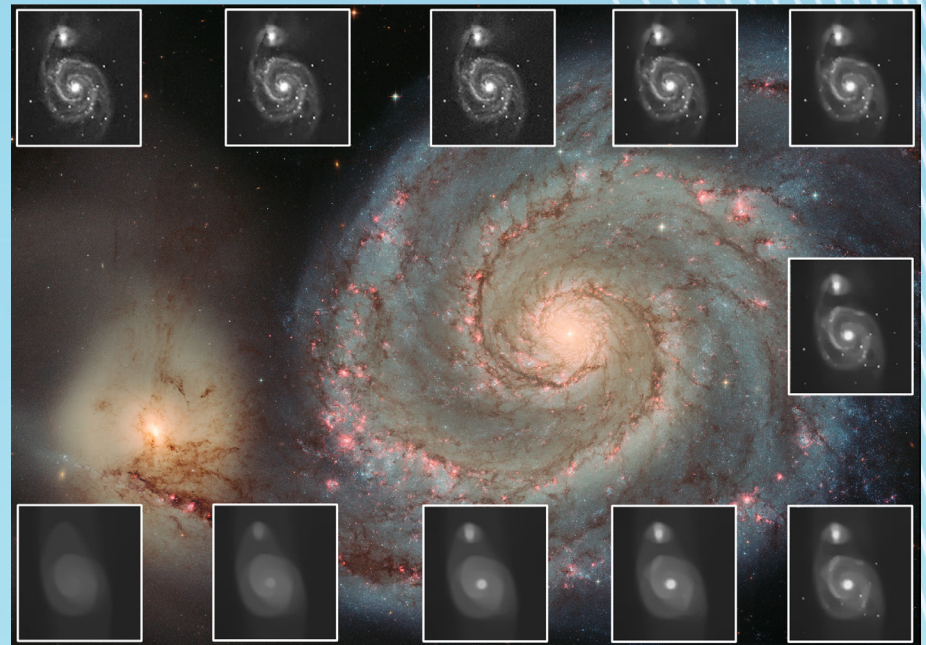
Credit: NASA, ESA, S. Beckwith, and the Hubble Heritage Team (STScI/AURA).

Scientific Background

Multiscale phenomena are ubiquitous in nature but remain notoriously difficult to fully understand. Examples naturally arise in ecology, non-Newtonian fluids, materials science, emergent small-scales in fluid mechanics and kinetic descriptions of complex systems. In order to meet this challenge, new techniques need to be developed that crucially use the interplay between modeling, mathematical analysis and computation.

Goals

The purpose of this conference is to bring young researchers from across the fields of modeling, analysis and computation together in order to share new ideas and foster interdisciplinary collaborations. The conference will specifically focus on kinetic theory, hydrodynamic models and coupled macroscopic-kinetic systems.

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, 2014**.

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

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CSCAMM is a part of the College Of Computer, Mathematical and Natural Sciences

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