

Transport and localization in random media: theory and applications

May 1 - 3, 2018

Department of Applied Physics and Applied Mathematics
and Department of Mathematics
Columbia University

Organizers

Ivan Corwin	Columbia University
Alexis Drouot	Columbia University
Hao Shen	Columbia University
Michael I. Weinstein	Columbia University

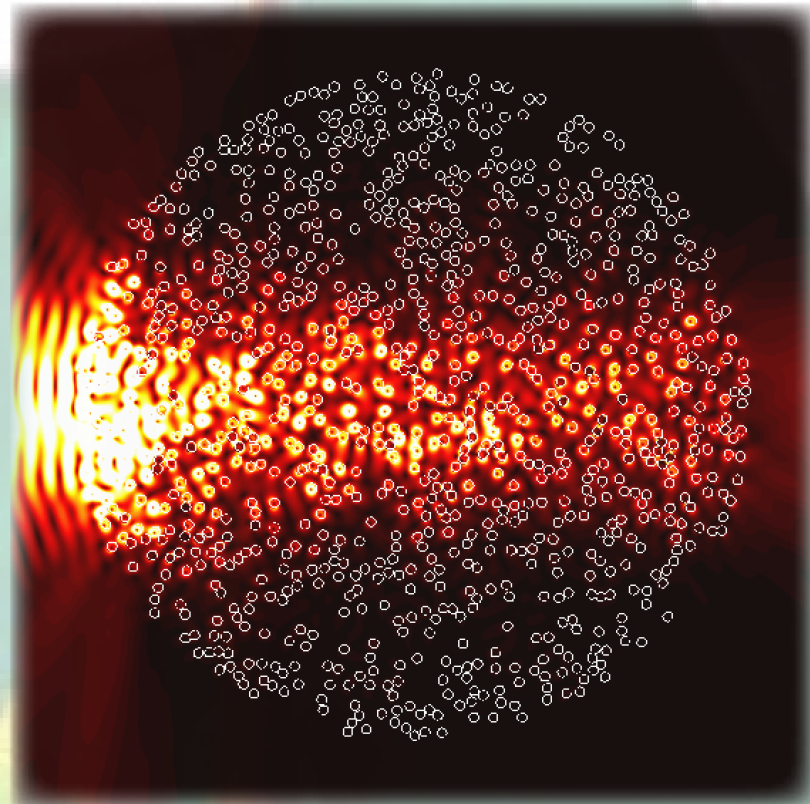
Confirmed Speakers

Scott Armstrong	New York University
Guillaume Bal	University of Chicago
Liliana Borcea	University of Michigan
Maury Bramson	University of Minnesota
Josselin Garnier	École Polytechnique
Svetlana Jitomirskaya	University of California, Irvine
Jianfeng Lu	Duke University
Jonathan Mattingly	Duke University
James Nolen	Duke University
George Papanicolaou	Stanford University
Lenya Ryzhik	Stanford University
Sylvia Serfaty	New York University
Sasha Sodin	Queen Mary University of London
Thomas Spencer	Institute for Advanced Study
Simone Warzel	Technical University of Munich

A limited amount of funding for travel and lodging is available for young researchers from Ki-Net nodes.

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Wave scattering in disordered media
LP2N, Bordeaux, France

Scientific Background

Mathematical models of random media are central to our understanding of many physical systems, with applications to atmospheric science, wireless communications in urban environments, physiological imaging and electronic transport in nano-structures. A central question is how disordered environments affect energy transport.

Goals

This workshop will present recent developments on wave propagation, scattering and diffusion in random medias at the interface of probability theory, mathematical physics and PDEs. Accessible lectures by leading mathematicians will catalyze interactions among both junior and senior researchers in fundamental and applied fields.



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