Mathematical Model and Computation of Nonlinear Problems

The nonlinear problem is an important and interesting topic in many research fields. For example, the nonlinear optics model can more accurately describe the light propagation at very high intensities, such as laser; the nonlinear Schrödinger equation is widely considered in condensed matter physics, semiconductor industry and nano-technology; in kinetic theory, the Boltzmann equation and the moment closure systems are both nonlinear models. The main purpose of this workshop is to bring together people working in the nonlinear modeling and computations to exchange their ideas, communicate the latest research results and develop further collaborations.

Topics include but are not limited to the following areas.
l Nonlinear optics and nonlinear Schrödinger equation l Kinetic theory and fluid dynamics l Numerical method for nonlinear equations.

Organizers

Name	University
Weizhu Bao	National University of Singapore
Shi Jin	University of Wisconsin
Yongyong Cai	Beijing Computational Science Research Center
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