

Quantum and Kinetic Problems: Modeling, Analysis, Numerics and Applications

Tutorial 2 on Modeling and Simulation for Quantum Condensation, Fluids and Information
(13–15 November and 25 November 2019)

Name & Affiliation	Talk Title
Weizhu Bao National University of Singapore, Singapore	Computational methods for the dynamics of the nonlinear Schrodinger/ Gross-Pitaevskii equations and applications (Slides) (Video1) (Video2)
Ionut Danaila University of Rouen Normandy, France	Solving PDEs with finite elements: an introduction to free software FreeFem++ (Slides1) (Slides2) (Video1) (Video2)
Dieter Jaksch University of Oxford, UK	Tensor networks for strongly correlated quantum systems (Slides1) (Slides2) (Slides3) (Slides4) (Video1) (Video2)
Zhigang Sun Chinese Academy of Sciences, China	Numerical methods for solving Schrodinger equation about chemical reaction (Video1) (Video2)