Analysis and Computation in Kinetic Theory
Stanford University, Department of Mathematics, 380-384H

Schedule

Wed, 11/4

9:30-10:20	Guillaume Bal Inverse problems and boundary controls for kinetic transport equation
10:30-11:20	Benoit Perthame Kinetic equations for bacterial movements: from molecular pathways to macroscopic equations
11:30-12:20	Vincent Calvez Concentration waves of bacteria at the mesoscopic scale
12:20-2:00	Lunch break
2:00-2:50	Kui Ren Statistical physics of large dense random graphs
3:00-3:50	Yao Yao Long time behavior of solutions to the 2D Keller-Segel equation with degenerate diffusion

Thu, 11/5

9:30-10:20	Jianfeng Lu Solving linear half-space kinetic equations with general boundary conditions
10:30-11:20	Christian Ringhofer A kinetic approach to behavioral game theory with applications to modeling insurance strategies
11:30-12:20	Jianguo Liu An analysis of merging-splitting dynamics by Bernstein function theory
12:20-2:00	Lunch break
2:00-2:50	Pierre-Emmanuel Jabin Weak Solutions for Compresssible Navier-Stokes Equations: Thermodynamically unstable pressure and anisotropic viscous stress tensor
3:00-3:50	Tai-Ping Liu Boltzmann equation for Infinite range potentials.
4:30-5:30	Luis Caffarelli (Math dept colloquium) TBD

Fri, 11/6

9:30-10:20	Shi Jin Semiclassical computational methods for quantum dynamics with band-crossing
10:30-11:20	Sasha Kiselev Small scale creation in ideal fluids
11:30-12:20	Irene Gamba Conservative schemes for Vlasov-Poisson/Maxwell Landau systems