Mathematics Department Colloquium

Organizer: Maciej Zworski

Thursday, 4:10–5:00pm, Evans 60

May 4 Shih-Hsien Yu, City University of Hong Kong Green's function for Boltzmann equation and its Applications

In this talk we will survey the recent mathematical theories for Boltzmann equation, in particular, the Green's functions for Boltzmann equation. There are several highlights in this talk: macromicro decomposition, positive solution of the Boltzmann shock layer, hydrodynamic limit problem, Boltzmann boundary layer, particle-wave decomposition, mixture lemma, and the Green's functions for both initial value problem and initial-boundary value problems.