

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : 王海濤 Dr. Haitao Wang
(本所 Academia Sinica)

Title : *Wave structures in Boltzmann and Landau equations*

Abstract :

Boltzmann and Landau equations are the microscopic models of the gas dynamics and plasma physics respectively. In this talk, I will present some pointwise behaviours of their solutions. The results reveal the particle and fluid aspects of the equation. The fluid-like waves reveal the dissipative behaviours of the type of Navier-Stokes equation, which represents the long time behaviour of the solutions. The kinetic-like waves dominate the short time behaviour. The different smoothing mechanism of them will also be discussed.

Time : 11:00 – 12:30, Wednesday, October 5, 2016

Venue : Room 638, Astro-Math. Building (NTU Campus)

Organizer : Yu-Yen Chien (NCTS), Jyun-Ao Lin (Academia Sinica)

Refreshment : 10:30

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