

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : Dr. Gyeongha Hwang
(National Center for Theoretical Sciences)

Title : *Deterministic and probabilistic analysis of nonlinear dispersive equation*

Abstract :

In this talk, we consider the Cauchy problem of nonlinear dispersive equation. Nonlinear dispersive equations include an important class of equations such as the nonlinear Schrodinger equation, the nonlinear wave equation, the Korteweg de Vries equation, and the wave maps equation. There are many important issues as wellposedness, blowup, scattering, stability and so on. In this time, we shall focus on wellposedness. Wellposedness of initial value problem depends on regularity of initial datum. I will introduce some results and methods regarding high regularity wellposedness, low regularity wellposedness and probabilistic wellposedness.

Time : 11:00 – 12:30, Wednesday, January 4, 2017

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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2016.12.23