The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on PDE

Long time dynamics for nonlinear wave equation

By

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Abstract

In this talk, we consider the nonlinear wave equations with large initial data. I will introduce the soliton resolution conjecture and discuss recent progress starting from the work of T. Duyckaerts, C. Kenig and F. Merle. At the end, I will talk about our results on the defocusing energy critical wave equation with a trapping potential, where in the radial case, we verified the soliton resolution conjecture, and in the non-radial case, we constructed global center stable manifold for any unstable steady state.

Date :   *Monday, 15 May 2017*

Time: *4:00 p.m. – 5:00 p.m.*

Venue: *Room 4504, Academic Building
(near Lifts 25&26), HKUST*

All are welcome!