



The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on PDE

Dynamics of energy critical NLS

By

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Abstract

In this talk, we will discuss recent development of the dynamics of the energy critical NLS. We will present new approach to the non-radial setting of this problem for sub-threshold solutions in dimension five. We also consider the initial value problem for the focusing energy critical NLS with inverse square potential. We give a full characterization of all solutions when the energy of the solutions equal to the energy of the ground state. In the case with no potential, this type of result was first obtained by Duyckaerts-Merle.

Date: Wednesday, 23 January 2019

Time: 1:30p.m. - 2:30p.m.

**Venue: Room 2463, Academic Building
(near Lifts 25 - 26), HKUST**

All are welcome!