SPEAKER:

Baoping Liu, Peking University

TITLE:

Long time dynamics for nonlinear Schrödinger equation

ABSTRACT:
We consider the Schrödinger equation with a general interaction term, which is localized in space. Under the assumption of radial symmetry, and boundedness uniformly in $H^1(\mathbb{R}^3)$ of the solution, we prove it is asymptotic to a free wave and a weakly localized solution. We derive further properties of the localized part such as smoothness and boundedness of the dilation operator. This is joint work with A. Soffer.