



北京理工大学

数学与统计学院学术报告

The Decay and Asymptotic properties of the Schrödinger operator

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时间: 2024年12月26日 16:00—17:00

地点: 文萃楼 E909

摘要: I will discuss both the linear and nonlinear Schrödinger equations. In the linear setting, I will discuss the pointwise decay and dispersive properties of solutions to the Schrödinger (and wave) equation. For the non-linear case, I will discuss the global existence of solutions with prescribed asymptotic data, which is called the 'final state problem'. If time permits, I will discuss the characterization of the scattering map of Schrödinger equations using a new class of Fourier integral operators that is closely related to aforementioned works. These are based on joint works with Andrew Hassell (Australian National University) and Junyong Zhang (BIT).