

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Kai Li**

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报告题目:

**Discrete Parity-Time Symmetric
Nonlinear Schrödinger Lattices**

邀请人: 唐贻发 研究员

报告时间: 2014 年 12 月 26 日 (周五)

下午 16:00

报告地点: 数学院南楼七层 702
会议室

Abstract:

This talk will focus on numerical solutions of the parity-time- (PT-) symmetric Schrödinger equations, especially optical couplers with different nonlinearities. For each configuration, we develop a dynamical model and examine its PT-symmetry. The corresponding nonlinear modes, as well as so-called ghost states that bifurcate from them, are analyzed starting from the Hamiltonian limit. Once the relevant waveforms have been identified (in an analytical or numerical form), their stability is examined by means of linearization in the vicinity of stationary points.

欢迎大家参加！