数学与系统科学研究院

计算数学所网络学术报告

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报告题目:

Introduction to rogue waves

邀请人: 常向科 副研究员

报告时间: 2020 年 11 月 18 日（周三）

下午 14:00-15:00

报告工具: 腾讯会议（ID：730 977 011）

Abstract：

Rogue wave, also referred to monster wave or freak wave, is initially used to describe the mysterious and severely destructive oceanic surface wave, which denotes the short-lived large amplitude and doubly localized wave in space and time. After the physical realization of rogue wave in optical fiber system, the study of rogue wave has been extended to many other fields including water tank, plasma, etc. In this talk, we shall give a short introduction to rogue wave from mathematical models and analytical solutions in one and two-dimensional space. The specific models are nonlinear Schrodinger (NLS), derivative nonlinear Schrodinger (DNLS) for one-dimensional space and Davey-Stewartson (DS) equation for two-dimensional space. This talk is mostly based on our several published papers.

欢迎大家参加！