

数学与系统科学研究院
计算数学所网络学术报告

报告人: 陈金兵 教授

(东南大学)

报告题目:

Rogue waves and modulational instability on the background of periodic standing waves in the focusing NLS equation

邀请人: 常向科 副研究员

报告时间: 2020 年 11 月 17 日 (周二)

晚上 19:00-20:00

报告工具: 腾讯会议 (ID: 880 591 030)

Abstract:

We present exact solutions for rogue waves arising on the background of periodic standing waves in the focusing nonlinear Schrödinger equation. The exact solutions are obtained by characterizing the Lax spectrum related to the periodic standing waves and by using the one-fold Darboux transformation. The magnification factor of the rogue waves is computed in the closed analytical form. We relate the rogue wave solutions to the modulation instability of the background of the periodic standing waves.

欢迎大家参加！