



北京理工大学

数学与统计学院学术报告

Reducibility of a class of operators induced by the dispersive third order Benjamin-Ono equation

报告人: 付英, 西北大学

时间: 2026年6月3日15:00

地点: #腾讯会议: 108-958-916

摘要: We prove the reducibility of a class of quasi-periodically time dependent linear operators, which are derived from linearizing the dispersive third order Benjamin-Ono equation on the circle at a small amplitude quasi-periodic function, with a Diophantine frequency vector $\omega \in O_0 \subset R^\nu$. It is shown that there exists a set $O_\infty \subset O_0$ of asymptotically full Lebesgue measure such that for any $\omega \in O_\infty$, the operators can be reduced to the ones with constant coefficients by some linear transformations depending on time quasi-periodically.

个人简介: 付英, 西北大学数学学院教授, 博士生导师, 陕西省杰出青年基金获得者。在西安交通大学获得博士学位, 曾在美国得州大学阿灵顿分校数学系访问一年。主要研究色散可积方程解的动力学行为, 相关结果发表在Comm. Math. Phys., Math. Ann., J. Funct. Anal., Science China Mathematics, J. Differential Equations等期刊, 主持完成两项国家自然科学基金项目, 参与完成国家自然科学基金重点项目一项, 在研一项国家自然科学基金面上项目。