



# 偏微分方程及其应用中心

## 学术报告

**报告题目:** On the transverse spectral instability of Stokes waves.

**报告人:** Changzhen Sun (Besançon, France)

**时间:** 2024年12月5日(星期四) 3:30 pm

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**摘要:** In this talk, we present a recent study on the transverse instability of Stokes waves-one-dimensional periodic water waves-within a three-dimensional gravity-driven water wave system of finite depth. Our key finding reveals that all sufficiently small Stokes waves are unstable when they are subjected to perturbations with very small transverse frequencies.

This is a joint work with Z. Jiao, M. Rodrigues and Z. Yang.