数学与系统科学研究院

计算数学所学术报告

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报告题目：

Small-amplitude solitary waves for the full-dispersion Kadomtsev-Petviashvili equation

邀请人：　徐丽 博士

报告时间：2017 年 10 月 25 日（周三）

下午 14:30-15:30

报告地点：　数学院科技综合楼

三层 311 报告厅

Abstract:

Using constrained minimisation and a decomposition in Fourier space, we prove that the Kadomtsev-Petviashvili (KPI) equation modified with the exact dispersion relation from the gravity-capillary water-wave problem admits a family of small solitary solutions, approximating these of the standard KPI equation. The KPI equation, as well as its fully dispersive counterpart, describes gravity-capillary waves with strong surface tension. This is joint work with Mark Groves, Saarbrücken.

欢迎大家参加！