数学与系统科学研究院

计算数学所学术报告

报告人：　**Prof. Jing Kang**

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报告题目：

Higher-dimensional Dispersive Quantization — two-dimensional linear Kdv case

邀请人：　常向科 副研究员

报告时间：**2019** 年 **11** 月 **28** 日（周四）

下午 **17:00-18:00**

报告地点：　数学院南楼二层

226 教室

Abstract:

We study the periodic initial-boundary value problem for the two-dimensional linear KdV equation on a rectangle domain. We show that the piecewise constant initial data leads to quantized structures at rational times, meaning that the solution is piecewise constant on rational sub- rectangle. Furthermore, we verify these results extend to general two-dimensional linear dispersive equations with ‘’rational polynomial'' dispersion relations, subject to a more general piecewise smooth initial condition. The solution is a linear combination of finitely many translates of the initial data.

欢迎大家参加！