数学与系统科学研究院

计算数学所学术报告

报告人：Prof. Zhonghua Qiao

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报告题目：

Introduction for nonlocal Allen-Cahn equations and the properties

邀请人： 洪佳林 研究员

报告时间：2017 年 4 月 25 日（周三）

下午 15:30-16:30

报告地点： 数学院南楼九层

902 教室

Abstract：

In first talk, we introduce the nonlocal Allen-Cahn (NAC) equation and basic properties of this kind of equation. One of important properties is that the solution to the NAC equation satisfies the maximum principle. As a consequence, numerical approximations preserving the maximum principle in the discrete sense are highly desirable at both physical and mathematical levels. Our numerical schemes are obtained by using the quadrature-based finite difference method for the spatial discretization and applying ETD-based approximations on the temporal integration.

欢迎大家参加！