

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Richard Rankin**

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报告题目:

**Fully computable error estimation of a
nonlinear, positivity-preserving
discretization of the
convection-diffusion-reaction equation**

邀请人: 龚伟 副研究员

报告时间: 2018 年 12 月 26 日(周三)

下午 15:00-16:00

报告地点: 科技综合楼三层

311 报告厅

Abstract:

I will discuss the computable a posteriori error estimator that we have obtained for the error in approximations to the solution of a convection-diffusion-reaction equation. This a posteriori error estimator provides a guaranteed upper bound on the energy norm of the error and the associated local error indicators are locally efficient. The assumptions on the approximation method are such that they allow us to consider nonlinear methods that have been built with the aim of preserving the discrete maximum principle.

欢迎大家参加！