

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Yunrong Zhu**

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报告题目:

Multilevel Solvers for PDE with Discontinuous Coefficients

邀请人: 谢和虎 研究员

报告时间: 2016 年 7 月 12 日 (周二)

上午 10:00-11:00

报告地点: 科技综合楼三层

311 报告厅

Abstract:

In this talk, we consider the multilevel methods for solving the linear systems arising from the finite element discretizations of the elliptic PDE with discontinuous coefficients. We discuss the influence of the discontinuous coefficients on the performance of the classical BPX and multigrid V-cycle preconditioners. We show the robustness of these methods with respect to the mesh size and the discontinuous coefficients.

欢迎大家参加！