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

(Idaho State University)

报告题目:

Multilevel methods for reaction-diffusion equations

邀请人: 张晨松 副研究员

报告时间: 2015年7月8日(周三)

上午 9:30~10:30

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 linear finite element approximation of the reaction-diffusion problems, where both diffusion and reaction coefficients are piecewise constant functions. We discuss in detail the influence of both the discontinuous reaction and diffusion coefficients to the performance of the classical BPX and multigrid V-cycle preconditioners. We show robustness of these methods with respect to the mesh size and the discontinuous coefficients.

欢迎大家参加!