数学与系统科学研究院

计算数学所学术报告

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报告题目：

Quasi-Chebyshev Acceleration to Nonoverlapping Multisplitting

邀请人： 白中治 研究员

报告时间：2014 年 10 月 18 日（周六）

上午 9:00-10:00

报告地点： 数学院南楼七层 702

会议室

Abstract：

In this talk, we present a quasi-Chebyshev acceleration applied to the nonoverlapping multisplitting method for the parallel solution of linear systems when the coefficient matrix is either an H-matrix or a symmetric positive definite matrix. First, m parallel iterations are implemented in m different processors. Second, based on l1-norm or l2-norm, the m optimization models are parallelly treated in m different processors. The convergence theories are established for the parallel quasi-Chebyshev accelerated method. Finally, the numerical examples show that the parallel quasi-Chebyshev technique can significantly accelerate the nonoverlapping multisplitting method.

欢迎大家参加！