

数学与系统科学研究院
计算数学所网络学术报告

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报告题目：

**On Randomized Block Kaczmarz
Method for Solving Large Linear
Systems**

邀请人： 白中治 研究员

报告时间： 2021 年 9 月 5 日 (周日)

上午 10:00-11:00

报告工具： 腾讯会议 ID： (132 539 726)

Abstract:

In this talk, we propose the randomized block Kaczmarz methods for solving large linear systems. Based on the idea of K-means method, we present a new partitioning strategy and propose the randomized block Kaczmarz method based on the uniform distribution. Moreover, in order to reduce the computing time, we introduce weighted parameters and construct the randomized block Kaczmarz method based on the weighted probability, the convergence property is also analyzed. The numerical results show that the randomized block Kaczmarz method based on the weighted probability is more efficient than the randomized block Kaczmarz method based on the uniform distribution.

欢迎大家参加！