

数学与系统科学研究院

计算数学所学术报告

报告人: **Dr. Fang Sheng**

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报告题目:

**Loosely Coupled Parallel
Computation of Leading Part
Singular Value Decomposition**

邀请人: 刘歆 博士

报告时间: **2013 年 8 月 21 日 (周三)**

上午 9:30-10:30

报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

The development of multicore processors and graphic cards presents huge opportunities for scientific computing. As fundamental techniques and tools, new numerical linear algebra algorithms based on loosely coupled parallelism (low synchronicity, low communication overhead) are strongly desirable. In this talk, we present such an algorithm for computation of leading part singular value decomposition of very large, not necessarily sparse, matrices. Theoretical analysis and uses in several optimisation models are discussed.

欢迎大家参加!