

数学与系统科学研究院
计算数学所定期学术报告

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报告题目:

**A Parallel High-Order Accurate
Finite Element Nonlinear Stokes
Ice-Sheet Model**

报告时间: **2012年9月20日(周四)**

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报告地点: **科技综合楼三层 311**

计算数学所报告厅

Abstract:

A parallel finite element implementation on tetrahedral grids of the nonlinear three-dimensional full-Stokes model for the dynamics of ice-sheets is presented. Effective solvers by using preconditioning techniques for the saddle-point system resulting from the discretization are discussed and implemented. We validated our finite element full-Stokes model through the use of well-known ice-sheet benchmark experiments, and the solver is shown to be efficient, robust, and scalable.

欢迎大家参加!