

数学与系统科学研究院
计算数学所博士后定期
学术报告

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报告题目：

**Inexact Uzawa-type methods for solving
a class of block three-by-three saddle
point problems**

报告时间： 2017 年 11 月 8 日（周三）

下午 16:00-17:00

报告地点： 数学院科技综合楼
三层 311 报告厅

Abstract:

We extend the Uzawa iterative method to solve a class of block three-by-three saddle point problems. Each step requires the solution of a symmetric indefinite system of linear equations. By using an approximate solution to replace this computation, we also study an inexact Uzawa-type method and its two special cases. Theoretical analyses show that the inexact Uzawa-type methods converge to the unique solution of this saddle point problem under suitable assumptions on the approximation calculation level. Numerical experiments are presented to further confirm the effectiveness and robustness of all these new methods.

欢迎大家参加!