

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:

**Inexact modulus method for linear  
complementarity problems**

邀请人: 任志茹 博士

报告时间: **2013年8月3日 (周六)**

**下午16:00~17:00**

报告地点: **科技综合楼三层301**

**计算数学所小报告厅**

## Abstract:

By reformulating the large sparse linear complementarity problems as implicit fixed-point equations, a class of modulus-based matrix splitting iteration methods was established. This type of methods generalizes the classical modulus method and those modifications in our paper. In this talk, we present an inexact iteration process for these modulus-based methods. The convergence property is analyzed when the system matrices are positive-definite matrices and  $H_+$ -matrices, respectively. Numerical results show that the new methods are feasible and efficient under suitable conditions.

欢迎大家参加!