

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Xiaoming He**

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报告题目:

**Immersed finite elements and their  
applications to the problems of  
charging in space**

邀请人: 许学军 研究员

报告时间: **2013 年 12 月 25 日(周三)**

**下午 16:00-17:00**

报告地点: 科技综合楼三层 **311**

计算数学所报告厅

## **Abstract:**

**In this presentation we will first introduce the immersed finite elements to efficiently solve elliptic interface PDEs on structured meshes. Then two applications to the problems of charging in space will be discussed: the ion thruster and the electrostatic levitation of lunar dust. The later one is one of the greatest inhibitors to a nominal operation on the moon. Finally, the immersed finite elements will be extended to a moving interface PDE.**

**欢迎大家参加!**