

# 数学与系统科学研究院

## 计算数学所学术报告

报告人: **Dr. Fan Zhang**

( *Rensselaer Polytechnic Institute, USA* )

报告题目:

**Parallel Adaptive Infrastructure for  
Plasma Simulations in Tokamak**

邀请人: **郑伟英 研究员**

报告时间: **2015 年 1 月 15 日 (周四)**

**上午 10:00-11:00**

报告地点: **数学院南楼七层 702**

**会议室**

## **Abstract:**

**Mesh-based methods are extensively applied in macroscopic studies of plasmas. As the size of problems simulated increases, especially to the extreme scale, high-performance parallel computers must be used to properly solve the problem in a realistic time. An infrastructure that supports the tokamak geometry definition, its automatic meshing and parallel adaptive analysis is presented for use by mesh-based fusion analysis programs from Princeton Plasma Physics Lab.**

**欢迎大家参加！**