

# 数学与系统科学研究院

## 计算数学所博士后定期学术报告

报告人: **Dr. Xin Zhang**

*( Institute of Computational Mathematics and Scientific/Engineering  
Computing, CAS )*

报告题目:

**Convergence of the modified discrete  
ordinates method for the anisotropic  
scattering transport equation**

报告时间: **2014 年 11 月 18 日 (周 二)**

**下午 16: 00~17: 00**

报告地点: **数学院南楼七层**

**702 会议室**

## **Abstract:**

**We deal with the eigenvalue problem of the anisotropic scattering transport equation in slab geometry. We propose a new discrete method which called modified discrete ordinates method. It is constructed by redeveloping and improving discrete ordinates method in the space of  $L^1$ . Different from traditional methods, norm convergence of operator approximation is proved theoretically. Further, convergence of eigenvalue approximation and the corresponding error estimation are obtained by analytical tools.**

**欢迎大家参加！**