

数学与系统科学研究院

计算数学所学术报告

报告人: 姚昌辉 教授

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报告题目:

**The Solvability, Numerical Methods  
of Magneto-heating Coupling Model  
with Turbulent Convection Zone and  
the Flow Fields**

邀请人: 曹礼群 研究员

报告时间: 2017 年 7 月 19 日 (周三)

下午 16:00-17:00

报告地点: 数学院南楼七层

702 教室

## **Abstract:**

**In this talk, we will present the magneto-heating coupling model with turbulent convection zone and the flow fields. Then, by the monotone theory, weak convergence and Rother's methods, we give the solvability of model. Next, we set up the full discrete scheme by finite element methods and establish the error estimates for the magneto-heating fields. At last, we give a simple numerical example to verify the theoretical result.**

**欢迎大家参加！**