# 数学与系统科学研究院

# 计算数学所系列学术报告

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# 报告题目:

Alfven Waves in Magnetic Confinement Fusion --- Equation to Example

邀请人: 郑伟英 研究员

报告时间: 2015年6月28日(周日)

上午 9:00~11:00

报告地点: 数学院南楼七层

702 会议室

### **Abstract:**

Alfven wave and energetic particle physics play crucial roles in burning plasmas in magnetic fusion **Experimental** confinement studies. observations of Alfven activities have been indicating the potential excitation mechanism upon different species with varied range of energe. particle Theoretical investigation and numerical simulation have been demonstrating kinetic excitation process upon wave-particle resonances over the toroidal precessional frequency and the bounce frequency / the transit frequency of ions/electrons of thermal/energetic plasma **This** components. presentation is to serve as a basic introduction to understand physical correlations behind the observed phenomena upon selected Alfvenic examples. including magnetiohydrodynamic featues as well as kinetic characteristics.

# 欢迎大家参加!