

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:

**DAEPS Project --- Initial Tasks:
Local Eigenmode Studies**

邀请人: 郑伟英 研究员

报告时间: 2015 年 6 月 27 日 (周六)

下午 15:00~17:00

报告地点: 数学院南楼九层

902 会议室

Abstract:

The DAEPS (Drift Alfvén Energetic Particle Stability) is a long term project to develop a comprehensive global linear eigenvalue stability code to investigate the supporting mechanism of varied physical modes observed in toroidal plasmas for magnetic confinement fusion. The phase-I studies of DAEPS project focus our efforts on the AE (Alfvén Eigenmode) and the EPM (Energetic Particle continuum Mode). As initial tasks to tackle the DAEPS, a local version of eigenvalue algorithm is to be designed upon the reduced equation to delineate typical Alfvénic instabilities (e.g., BAE -- Beta-induced Alfvén Eigenmode) kinetically excited by thermal/energetic particles. This presentation is an introduction to fundamental aspects of the project, especially for the initial tasks.

欢迎大家参加！