# 数学与系统科学研究院

# 计算数学所学术报告

**报告人**： **Prof. Liqun Qi**

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**报告题目**：

# The Spectral Theory of Tensors - The State of The Art

**邀请人**： 袁亚湘 院士

**报告时间**：**2011** 年 **12** 月 **21** 日（周三）

　　　　　下午 **16**：**00-17**：**30**

**报告地点**： 科技综合楼三层 **311**

　　　　　计算数学所报告厅

**Abstract**:

After six years' development, the spectral theory of tensors can now be classified to 18 research topics. Some research topics have been well-studied, such as the largest H-eigenvalue of a nonnegative tensor, the applications in magnetic resonance imaging. Some research topics have some important discoveries, such as the best rank-one approximation related problems, and the spectral hypergraph theory. Some research topics have some challenging problems and thus great potentials, such as the quantum information related problems. In this talk, I intend to review these developments and further questions.

欢迎大家参加！