

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Jiguang Sun**

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报告题目:

**Transmission Eigenvalues:  
Numerical Methods and Applications**

邀请人: 季霞 副研究员

报告时间: **2013 年 7 月 16 日 (周二)**

**上午 10:00-11:00**

报告地点: **科技综合楼三层 311**

**计算数学所报告厅**

## **Abstract:**

**Transmission eigenvalues have important applications in inverse scattering theory. For example, they can be used to obtain the index of refraction of the scattering target. Since the problem is non-selfadjoint, classical methods result in non-Hermitian matrix eigenvalue problems. In this talk, we discuss two numerical methods to compute transmission eigenvalues. Then we show that these methods can be integrated into algorithms for the estimation of the index of refraction using near or far field data.**

**欢迎大家参加!**