

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:

**Recursive integral method for
transmission eigenvalues**

邀请人: 周爱辉 研究员

报告时间: 2015 年 12 月 21 日(周一)

上午 10:00~11:00

报告地点: 数学院南楼七层

702 会议室

Abstract:

In this talk we consider a nonselfadjoint PDE eigenvalue problem. The problem is numerically challenging because of non-selfadjointness and lack of a prior spectral information. Furthermore, only some interior eigenvalues may be of interests. In this paper, we propose a recursive integral method based on eigenprojections to compute transmission eigenvalues. The method can separate nearby eigenvalues and does not require any a prior information on the spectrum. These features make the method well-suited for the transmission eigenvalue problem whose spectrum is complicate. Numerical examples show that the method is effective and robust.

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