



复旦大学数学科学学院 数学综合报告会

报告题目: Recursive integral method for transmission eigenvalues

报告人: Jiguang Sun

(Michigan Tech University)

报告时间: 2016-06-02 星期四 14:00 -15:00

报告地点: 光华东主楼 1801

摘要: The transmission eigenvalue problem arose in the inverse scattering theory for inhomogeneous media and has important applications in a variety of inverse problems for target identification and nondestructive testing. The problem is numerically challenging because of the nonself-adjointness and complicated spectrum. In this talk, we propose a novel recursive contour integral method using the spectrum projection. The method can compute both real and complex eigenvalues and does not require any a priori information. Numerical examples show that the method is effective and robust.

非线性数学模型与方法教育部重点实验室
中法应用数学国际联合实验室
上海市现代应用数学重点实验室
复旦大学数学研究所