

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Ganquan Xie**

(*GL Geophysical Laboratory*)

报告题目:

A GL Acoustic Scattering Inversion

邀请人: 张文生研究员

报告时间: **2011 年 8 月 18 日 (周四)**

上午 9: 00-10: 00

报告地点: **科技综合楼三层 301**

计算数学所小报告厅

Abstract:

In this paper, we propose a GL Acoustic Scattering Inversion . We define a nonlinear operation equation for the inversion. A novel Frechet derivative integral geometry operator, and GL acoustic inversion algorithm are proposed. There are two type inversions, one is finding inversion or scattering inversion, other one is hiding inversion or no scattering inversion. The exploration, detection, nondestructive testing, scattering material design, medical diagnosis, detect stock, etc are belong to finding scattering inversion. Password design, invisible cloaking, no scattering mechanical materials, no scattering acoustic materials creating and design, invisible networks, stock strategy design etc. are belong to hiding and no scattering inversion. From forward modeling to inversion is usual approach. By inverting the approach, Our GL method is designed from inversion to forwarding.

欢迎大家参加!