

数学与系统科学研究院

计算数学所学术报告

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报告题目:

地震绕射波提取的正则化方法

邀请人: 张文生 研究员

报告时间: 2015 年 12 月 15 日(周二)

下午 14:30~15:30

报告地点: 科技综合楼三层

301 小报告厅

## **Abstract:**

**Seismic diffractions play an important role in characterizing and identifying discontinuous geological structures, such as tiny faults and cavities in Ordovician carbonate reservoirs. These faults and cavities are important because of their close relationship to the reservoir properties of oil and gas. The seismic responses of these objects in the sense of seismic wavelength are encoded in diffractions. Since diffractors are usually sparse and non-differentiable, we study diffraction extraction based on first and second-order of regularization model specially for detecting diffraction points, and numerical algorithms are addressed. Numerical examples based on synthetic data and field data are given.**

**欢迎大家参加！**