

数学与系统科学研究院

计算数学所学术报告

报告人: 魏轲 研究员

( 复旦大学大数据学院 )

报告题目:

**Data Reconstruction: Exploiting the  
Low Rank Structure in the  
Transform Domain**

邀请人: 刘歆 副研究员

报告时间: 2019 年 9 月 27 日 (周五)

上午 10:30-11:30

报告地点: 科技综合楼三层

311 报告厅

## **Abstract:**

**Low rank structure arises in many areas of science and engineering, such as signal processing, computer vision and machine learning. In this talk we consider two data reconstruction problems which are motivated by spectral compressed sensing and seismic data reconstruction. Based on the low rank structure in the transform domain, convex and nonconvex methods have been developed to reconstruct the data. Despite the ill-posedness of the problems, we show that exact recovery guarantees can be established for the proposed methods under certain random models.**

**欢迎大家参加！**