

数学与系统科学研究院

计算数学所学术报告

报告人: **Prof. Yang Wang**

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报告题目:

**The Phase Retrieval Problem**

邀请人: 许志强 副研究员

报告时间: **2013 年 5 月 15 日 (周三)**

**上午 10:00**

报告地点: **科技综合楼三层 311**

**计算数学所报告厅**

## **Abstract:**

The classic phase retrieval problem refers to the reconstruction of a function from the magnitude of its Fourier transform. It amounts to reconstructing the phase information of the Fourier transform from magnitude only, and hence the term "phase retrieval". Phase retrieval has seen growing applications in signal processing and particularly in many imaging problems. Today phase retrieval problem has been extended to the more general problem of reconstructing a function (an image or a signal) from the magnitude of some transform of it.

Substantial progress on phase retrieval has been made in recent years both in theory and applications. Nevertheless there remains numerous open problems, many appears to be extremely challenging. In this talk, I'll give an overview of the phase retrieval problem and present some of the latest advances as well as open problems in the area.

**欢迎大家参加!**