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：

Smotth quadratic model for phase retrieval

邀请人： 许志强 研究员

报告时间：**2018** 年 **12** 月 **27** 日（周四）

上午 **9:30-10:30**

报告地点： 数学院南楼七层

702 教室

<u>Abstract</u>：

In this talk, we introduce a new smooth quadratic model for solving phase retrieval problem, which considers recovering a signal/an image from the magnitude of linear measurements. Starting from a carefully chosen initial point, we claim that the vanilla gradient descent algorithm can achieve linear convergence under the optimal order of measurements in theory, i.e., the same order of the signal dimension. Moreover, our results can be extended to complex number feild. The utility and benefit of the proposed method can be validated by both the simulated and real-world experiments.

欢迎大家参加！