数学与系统科学研究院

计算数学所学术报告

报告人： **Prof. Alexei Shadrin**

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报告题目：

The Landau--Kolmogorov problem and numerical differentiation formulae

邀请人： 袁亚湘 院士

报告时间：2016 年 1 月 5 日（周二）

下午 15:30~16:30

报告地点： 科技综合楼三层

311 报告厅

Abstract：

The Landau--Kolmogorov problem is to bound the norm of the intermediate derivative $f^{(k)}$ for $1 \le k \le n-1$ when the bounds for the norms of the function f and of its higher derivative $f^{(n)}$, are given.This problem is closely related to finding optimal numerical approximations to the k-th derivative of an n times differentiable function f using N bits of information about f. We will overview existing results, and give an outline of our recent proof of Karlin's conjecture which deals with the case of functions given on a finite interval.

欢迎大家参加！