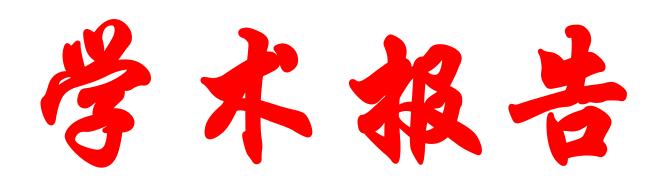
中国科学院数学与系统科学研究院应用数学所



偏微分方程及其应用中心



- 報告級員: Quantitative analysis of positive solutions to the Lane-Emden problem in dimension two
- **极 告 人**, 罗鹏 教授 华中师范大学
- **村** 2024年08月25日(星期日)上午 10:00-11:00
- **递**: 腾讯会议 418-135-602
- In this talk, we are concerned with the well-known Lane-Emden problem. Improving some known asymptotic estimates on the solutions, we prove the non-degeneracy and local uniqueness of the multi-spikes positive solutions for general domains. Our methods mainly use ODE's theory, various local Pohozaev identities, blow-up analysis, morse index, topological degree and the properties of Green's function. These are jointed with Massimo Grossi, Isabella Ianni, ShusenYan.