

中国科学院数学与系统科学研究院  
Academy of Mathematics and Systems Science, CAS

## 图论组合与网络研究中心

Center for Graph Theory, Combinatorics and Networks

# 学术报告

题目：The Proportional Stability in Facility Locations

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时间：8月15日（星期二） 下午 15:00 – 16:00

地点：数学院南楼 N602

**摘要：** Given a graph that represents a set of  $n$  customers, we are to select a set  $S$  of  $k$  locations from the graph for building facilities. The facilities are homogeneous and the consumers only go to the closest facilities. A set  $S$  of selected locations is called *proportional stable*, if there is no unselected location  $t \notin S$ , such that the number of customers who strictly prefer  $t$  to  $S$  is at least the proportion  $\frac{n}{k}$ . We study the approximability of the proportional stability.

**个人简介：** 王晨豪，北京师范大学珠海校区人工智能与未来网络研究院副研究员，北师港浸大（UIC）计算机系助理教授，主要从事算法博弈论和组合优化方面的理论和应用研究。2020年博士毕业于中科院数学院，2020-2021年先后在美国内布拉斯加林肯大学和日本九州大学从事博士后工作。