



北京理工大学

数学与统计学院学术报告

The First Laplacian Eigenvalue of a New Random Graph Model

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摘要: In this talk I will present a newly proposed random graph model, which yields a larger proportion of connected graphs. I will discuss the eigenvalue problem for the discrete Laplacian on this model and derive both upper and lower bounds for the first (nonzero) eigenvalue. The talk will present the model construction, main proof ideas, and an application of the eigenvalue estimates in geometry. This is a joint work with Bobo Hua and Yang Shen.

个人简介: 郭琪, 中国人民大学讲师, 2021年博士毕业于中科院数学所, 研究方向为临界点理论、变分法和随机图理论等, 近年来主要关注Dirac方程与离散逼近等问题, 主持博士后基金一项, 国家自然科学基金(青年项目)一项, 相关研究工作发表在JDE, SIMA, CVPDE, DCDS, JMP等杂志。