



复旦大学数学科学学院 数学综合报告会

报告题目: Discovering hierarchical structures in weighted graphs using Ricci-flow method

报告人: 林勇 教授 (清华大学)

时间: 2020-10-7 星期三 9:00-10:00

地点: 腾讯会议 ID: 156 770 416, 密码: 24680

报告摘要: We study the existence of solutions of Ricci flow equations of Ollivier-Lin-Lu-Yau curvature defined on weighted graphs. Our work is motivated by a paper of Ni etc. in which the discrete time Ricci flow algorithm has been applied successfully as a discrete geometric approach in detecting complex networks. Our main result is the existence and uniqueness theorem for solutions to a continuous time normalized Ricci flow on graphs. This is a joint work with Bai, Lu, Wang and Yau.

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