

中国科学院

随机复杂结构与数据科学重点实验室

学术报告

报告题目: Recent progresses in branching capacity

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时间: 2023年9月22日 (周五) 16:00 - 17:00

地点: 数学院南楼 613

报告摘要:

Capacity is a fundamental concept with wide application in potential theory and random interacements. It records information about hitting probabilities and Green's functions of a set. Replacing random walks by branching random walks in the definition of capacity, a parallel branching capacity is defined in [Zhu 2016].

Recently, there has been significant developments around this quantity in [Asselah, Schapira, Sousi 2023], [Schapira 2023] etc. In this talk, we give a walk-through for these works, and introduce our present result (joint work with Jean-Francois Delmas and Yueyun Hu) on the branching capacity of the range of a simple random walk and its continuous count.