北京师范大学随机数学中心

学术报告

报告题目：A strong LLN for last passage percolation on the complete graph

报告人： 吴宪远 教授

（首都师范大学）

时间：2020-10-30（周五）， 10：00-12：00

地点：后主楼 1124

摘要

This talk focuses on last passage percolation on the complete graph. Let $G\_n = ([n], E\_n)$ be the complete graph on vertex set $[n] = {1, 2, . . . , n}$, and i.i.d. sequence ${X\_e : e ∈ E\_n}$ be the passage times of edges, we interpret $W\_n$ as the largest passage time among all self-avoiding paths from 1 to n. First, we take $X\_e $ having Weibull distribution. A strong law of large numbers of $W\_n$ is obtained by greedy logarithm. If $X\_e$ has power law distribution, we obtain also the similar results. Second, under moment assumptions (E (X\_e^p) < ∞ for some $p > 2$), it is proved that the variance of $W\_n$ is sublinear, obeying the bound $Cn/ log n$.