## 概率论系列报告

报告题目(Title): ON COVERING MONOTONIC PATHS WITH SIMPLE RANDOM WALK

报告人(Speaker): 张原 博士 Texas A&M University

时间(Time): 5月29日(周一)下午3:00-4:00

地点(Venue): 北京大学理科一号楼 1303

摘要 (Abstract): In this paper we study the probability that a \$d\$ dimensional simple random walk (or the first \$L\$ steps of it) covers each point in a nearest neighbor path connecting 0 and the boundary of an \$L\_1\$ ball. We show that among all such paths, the one that maximizes the covering probability is the monotonic increasing one that stays within distance 1 from the diagonal. As a result, we can obtain an exponential upper bound on the decaying rate of covering probability of any such path when \$d\ge 4\$.

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