

概率论系列报告

报告题目 (Title): Liouville first passage percolation: geodesic dimension is strictly larger than 1 at high temperatures

报告人 (Speaker): 章复熹 副教授 北京大学

时间 (Time): 10月24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): We consider a discrete Gaussian free field h in a two-dimensional box of side length N with Dirichlet boundary conditions. We study the Liouville first passage percolation, i.e., the shortest path metric where each vertex is given a weight of $\exp(\gamma h)$ for some positive parameter γ . We show that for sufficiently small but fixed γ , with probability tending to 1 as N goes to ∞ , the dimensions of all geodesics between vertices of macroscopic distances are simultaneously strictly larger than 1.

欢迎参加