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zoom: 878 898 32316 (密码: 123456)

报告人: Wai-Kit Lam (Taiwan University)

题目: On the geometry of the growing ball of first-passage percolation

摘要: In first-passage percolation, one puts i.i.d. nonnegative weights on the nearest-neighbor edges, and studies the induced (pseudo)metric. It is well-known that a metric ball of radius t , after rescaled by $1/t$, converges to a deterministic limit shape as $t \rightarrow \infty$. However, not too much is known for finite t . In this talk, we will focus on the geometry of a ball of radius t , by studying its boundary. We will first talk about the size of the boundary of a ball (based on an earlier work with M. Damron and J. Hanson), and then we will talk about holes in a ball (based on a recent work with M. Damron, J. Gold and X. Shen).