

1090-60-75

Antonio Auffinger* (auffing@uchicago.edu), Dept. of Mathematics, 5734 S. University Avenue, Chicago, IL 60637. *Geodesics in first-passage percolation.*

First-passage percolation is a model of a random metric on a infinite network. It deals with a collection of points which can be reached within a given time from a fixed starting point, when the network of roads is given, but the passage times of the road are random. It was introduced back in the 60's but most of its fundamental questions are still open. In this talk, we will overview some recent advances in this model focusing on the existence, fluctuation and geometry of its geodesics. Based on joint works with M. Damron and J. Hanson. (Received February 16, 2013)