Mathematics > Probability

The Simple Random Walk Snake on Z^4 is Recurrent

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(Submitted on 6 Jul 2011)

Consider the branching simple random walk on Z^d indexed by a critical geometric Galton-Watson tree conditioned to survive. Using the concept of unimodular random graphs, we show that the walk is recurrent if and only if d is less than or equal to 4.

Submission history

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[v1] Wed, 6 Jul 2011 19:36:20 GMT (32kb,D)

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