A Log-scale Limit Theorem for One-dimensional Random Walks in Random Environments

Alexander Roitershtein, *University of British Columbia, Canada*

Abstract
We consider a transient one-dimensional random walk X_n in random environment having zero asymptotic speed. For a class of non-i.i.d. environments we show that $\log X_n / \log n$ converges in probability to a positive constant.

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