

Uniqueness of the mixing measure for a random walk in a random environment on the positive integers

Maren Eckhoff, *Technical University of Munich*
Silke W.W. Rolles, *Technical University of Munich*

Abstract

Consider a random walk in an irreducible random environment on the positive integers. We prove that the annealed law of the random walk determines uniquely the law of the random environment. An application to linearly edge-reinforced random walk is given.

Full text: [PDF](#) | [PostScript](#)

Pages: 31-35

Published on: February 3, 2009

Bibliography

1. F.Merkl and S.W.W. Rolles. A random environment for linearly edge-reinforced random walks on infinite graphs. *Prob. Th. Rel. Fields* 138 (2007), 157-176. [Math. Review 2008j:60235](#)
2. R.Pemantle. Phase transition in reinforced random walk and RWRE on trees. *Ann. Probab.* 16 (1988), 1229-1241. [Math. Review 89g:60220](#)

Research Support Tool

[Capture Cite](#)
[View Metadata](#)
[Printer Friendly](#)

▼ [Context](#)

[Author Address](#)

▼ [Action](#)

[Email Author](#)
[Email Others](#)

