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From: Bruno Schapira [view email]

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A 0-1 law for vertex-reinforced random walks on $\mathrm{Der} Z$ with weight of order k^{α} , $a^{-1/2}$	rdor	 PDF PostScript Other formats
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Schapira (LM-Orsay) (Submitted on 13 Jul 2011 (v1), last revised 14 Jun 2012 (this version, v2))		Change to browse b
We prove that Vertex Reinforced Random Walk on \$\mathbb{Z}\$ with weight of order \$k^\alpha\$, with \$\alpha\in [0,1/2)\$, is either almost surely recurrent or almost surely transient. This improves a previous result of Volkov who showed that the set of sites which are visited infinitely often was a.s. either empty or infinite. Comments: Final version, to appear in ECP, 8p Subjects: Probability (math.PR)	ha\$, with a s a.s.	References & Citatio
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