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Random Walk on a Co-Compact Fuchsian Group

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(Submitted on 27 Jul 2011 (v1), last revised 11 May 2012 (this version, v3))

It is proved that the Green's function of a symmetric finite range random walk on a co-compact Fuchsian group decays exponentially in distance at the radius of convergence R. It is also shown that Ancona's inequalities extend to R, and therefore that the Martin boundary for R-potentials coincides with the natural geometric boundary S^1, and that the Martin kernel is uniformly H\"older continuous. Finally, it is proved that this implies a local limit theorem for the transition probabilities.

Comments:	arXiv admin note: text overlap with arXiv:0710.5745
Subjects:	**Probability (math.PR)**; Group Theory (math.GR)
MSC classes:	31C20
Cite as:	**arXiv:1107.5591** [math.PR]
	(or **arXiv:1107.5591v3** [math.PR] for this version)

Submission history

From: Steve Lalley [view email]

[v1] Wed, 27 Jul 2011 20:31:52 GMT (45kb)
[v2] Tue, 2 Aug 2011 19:48:00 GMT (45kb)
[v3] Fri, 11 May 2012 17:41:46 GMT (49kb)

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