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Mathematics > Probability

Asymptotics of first-passage percolation on 1-dimensional graphs

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In this paper we consider standard first-passage percolation on certain 1-dimensional periodic graphs. One such graph of particular interest is the $\frac{1}{\sqrt{1+1}} = \frac{1}{\sqrt{1+1}} = \frac{1}{\sqrt$

We also allow different sets of initially infected vertices, and construct an exact coupling of two infections with different starting configurations. Using this coupling we prove a 0--1 law.

Subjects: **Probability (math.PR)**

MSC classes: 60K35, 60F05, 60F15, 60F17, 60F20 Cite as: arXiv:1107.2276 [math.PR] (or arXiv:1107.2276v1 [math.PR] for this version)

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