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Percolation on an infinitely generated group. (English) Zbl 1469.60328


Summary: We give an example of a long range Bernoulli percolation process on a group non-quasi-isometric with \( \mathbb{Z} \), in which clusters are almost surely finite for all values of the parameter. This random graph admits diverse equivalent definitions, and we study their ramifications. We also study its expected size and point out certain phase transitions.

MSC:

60K35 Interacting random processes; statistical mechanics type models; percolation theory
05C80 Random graphs (graph-theoretic aspects)
82B43 Percolation

Keywords:
Bernoulli percolation; random graph

Full Text: DOI arXiv

References:


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