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Percolation in random environment

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Abstract

Non-existence of the bond percolation on random edge graphs is studied. The underlying graph is assumed to be of bounded degree. Under a certain condition imposed on the probability distribution of bond probabilities, the no-go theorem is proved. The proof is based on a coarse-graining technique [Bassalygo-Dobrushin, Theory of Probab. Appl. **31**, 572–589 (1986)] and ψ -animals.