

No exceptional word in 3d percolation

Based on a joint work with P. Nolin and A. Teixeira

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We study and present some new results concerning the following problem, raised by Benjamini and Kesten (1995). Consider a site percolation configuration on Z^3 at parameter $1/2$. Each vertex receives independently the value 1, and 0 with equal probability. Which words (i.e. an infinite sequence of 0's and 1's) can be read when following a self-avoiding path in the graph Z^3 ?