

No exceptional words for site percolation on \mathbb{Z}^3

Pierre Nolin *

bpmnolin@cityu.edu.hk

Benjamini and Kesten introduced in 1995 the problem of embedding infinite binary sequences into a Bernoulli percolation configuration, known as percolation of words. We give a positive answer to their Open Problem 2: for site percolation on \mathbb{Z}^3 with parameter $p = 1/2$, we prove that almost surely, all words can be embedded. We also discuss various extensions of this result.

This talk is based on a joint work with Augusto Teixeira (IMPA) and Vincent Tassion (ETH Zürich).