

THE NUMBER OF INFINITE PERCOLATION CLUSTERS ON SOME GRAPH PRODUCTS

Masato SHINODA (Nara Women's University)

Let G be an infinite connected graph, and we study Bernoulli percolation on the Cartesian product of two graphs G and \mathbb{Z} (=1-dimensional lattice). We do not assume the transitivity of G , for example, we consider the pre-Sierpinski gasket as G . We give some conditions to determine the number of infinite clusters on the graph.