

1018-60-86

Adam Timar* (atimar@indiana.edu), Indiana University, Mathematics Department, Rawles Hall, Bloomington, IN 47405. *Neighboring clusters in Bernoulli percolation.*

Consider Bernoulli percolation on a locally finite quasi-transitive unimodular graph (such as a Cayley graph). We prove that two infinite clusters cannot have infinitely many pairs of vertices at distance 1 from one another, or, in other words, that such graphs exhibit “cluster repulsion”. This partially answers a question of Haggstrom, Peres and Schonmann. (Received February 28, 2006)