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Polluted Bootstrap Percolation

On the d -dimensional integer lattice, make every site independently occupied with probability p , closed with probability q , and open otherwise. Then iteratively occupy all open sites with at least threshold θ occupied neighbors. Closed and occupied sites never change. When both p and q are small, what relation between them guarantees that most sites eventually become occupied? The talk will describe recent progress on this problem, which is joint work with A. Holroyd and D. Sivakoff.