1127-05-348 Karen Gunderson* (karen.gunderson@umanitoba.ca), Department of Mathematics, University of Manitoba, 186 Dysart Road, Winnipeg, MB R3T 2N2, Canada. *Small percolating sets in bootstrap percolation.*

The r-neighbour bootstrap process is an update rule for the states of vertices in a graph where 'uninfected' vertices with at least r 'infected' neighbours become infected and a set of initially infected vertices is said to percolate if eventually all vertices are infected. While the focus is often on whether a randomly chosen set percolates, one can ask for the minimum size of a percolating set for a graph in such a process and which graph properties guarantee the existence of small percolating sets. I will present a new sharp result on minimum-degree conditions that guarantee small percolating sets. (Received February 06, 2017)