VCU Discrete Mathematics Seminar
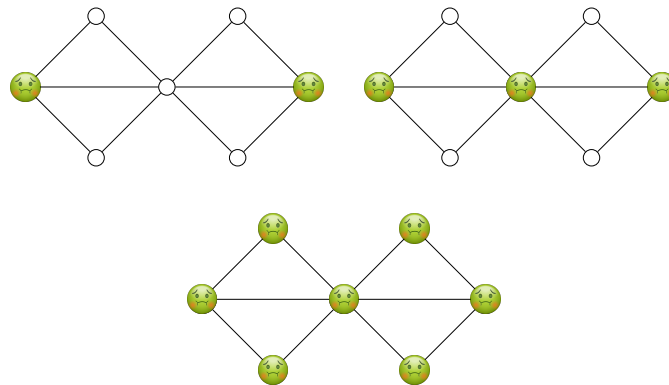
New Results on Bootstrap Percolation

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Wednesday, Nov. 1
1:00-1:50 EST

In person! in 4145 Harris Hall, and Zoom @
`https://vcu.zoom.us/j/92975799914`
`password=graphs2357`

Bootstrap Percolation is a process defined on a graph which begins with an initial set of infected vertices. In each subsequent round, an uninfected vertex becomes infected if it is adjacent to at least r previously infected vertices. If an initially infected set of vertices, A_0, begins a process in which every vertex of the graph eventually becomes infected, then we say that A_0 percolates. A graph is r-bootstrap good, or r-BG if it contains a percolating set of size r. In this talk we'll explore some recent results for 2-BG and more generally r-BG graphs, as well as as the number of rounds until percolation.

For the DM seminar schedule, see:

`https://go.vcu.edu/discrete`