

1145-05-794

Joshua Carlson* (jmsdg7@iastate.edu). *Throttling for Zero Forcing and its Minor Monotone Floor.*

Zero forcing is a process on a graph in which the goal is to force all vertices to become blue by applying a color change rule. Throttling minimizes the sum of the number of vertices that are initially blue and the number of time steps needed to color every vertex in the graph. The minor monotone floor of zero forcing uses a variation of the standard color change rule. This talk will introduce the concept of using a zero forcing process to extend a given graph. These extensions will be used to give characterizations for throttling zero forcing and its minor monotone floor. (Received September 14, 2018)