

1014-92-175

David M Chan* (dmchan@vcu.edu), Department of Mathematics, Virginia Commonwealth University, 1001 West Main Street, Richmond, VA 23284-2014, and **Rodney Dyer** (rjdyer@vcu.edu). *Cellular Automata with Propensity for Insectal Pollen Propagation*. Preliminary report.

The two main mechanisms that plants use to disperse pollen are insects and wind. Currently both are modeled assuming pollen follow a purely random walk. However, we believe that there are significant measurable differences between these two modes of transport. We use a CA model with propensity to see the difference in genetic differentiation within a population. (Received September 28, 2005)