1154-60-1826 **Pooja Agarwal**, **Mackenzie Simper*** (msimper@stanford.edu) and **Rick Durrett**. *The q-voter model on the torus.*

In the usual voter model, each vertex on a graph has opinion 0 or 1. A vertex changes its opinion at rate u, where u is the fraction of neighbors with opposite opinion. In the q-voter model, a vertex changes its opinion at rate u^q. Mean-field calculations suggest that there should be coexistence between opinions if $q < 1$, and clustering if $q > 1$. We use the machinery of voter model perturbations to show that the conjectured behavior holds for q close to 1 on the three-dimensional torus. (Received September 16, 2019)