Vicsek Model Noise Analysis fixed number of neighbors fixed density $\rho = 4$ k = 3k = 4k = 5N = 40.0• N=40.0 • N=40.0 1.0 1.0 -1.0 N=100.0 N=100.0 N=100.0 N=400.0 N=400.0 N=400.0 N=1600.0 N=1600.0 N=1600.0 0.8 0.8 0.8 o.6 -0.6 0.6 Va 0.4 0.4 0.4 0.2 0.2 0.2 0.0 0.0 n n k = 6k = 7k = 8N=40.0 N = 40.0N = 40.01.0 1.0 1.0 N=100.0 N=100.0 N=100.0 N=400.0 N=400.0 N=400.0 N=1600.0 N=1600.0 N=1600.0 0.8 0.8 8.0 0.6 0.6 0.4 0.4 0.2 0.2 0.2 0.0 0.0 0.0 2