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Ruhai Zhou* (rzhou@odu.edu), Department of Mathematics & Statistics, Old Dominion University, Norfolk, VA 23529, and **M Gregory Forest** and **Qi Wang**. *Phase diagram of kinetic attractors of active nematic suspensions.*

Based on the kinetic model for active suspensions of nematic polymers, we present some numerical simulation results to show various attractors and their transitions. These attractors include both 1D banded and 2D cellular, stationary and strong oscillatory states. A phase diagram is given in the parameter space of nematic strength and activation strength. Some properties of these attractors will be examined in detail. (Received March 21, 2017)