1125-60-2309 **Joe J Klobusicky*** (klobuj@rpi.edu), Department of Mathematical Science, Rensselaer Polytechnic Institute, Troy, NY 12180, and **Govind Menon**. *A hydrodynamic limit theorem for a minimal model of grain boundary evolution.*

We prove exponential concentration estimates and a strong law of large numbers for a particle system that is the simplest representative of a general class of models for 2D grain boundary coarsening. The proof relies on a concentration inequality for an urn model studied by Pittel, and Maurey's concentration inequality for Lipschitz functions on the permutation group. (Received September 20, 2016)