

1112-35-554

Ibrahim Fatkullin*, 617 N Santa Rita Ave, Tucson, AZ 85721, and **Valeriy Slastikov**. *A model of polydisperse nematics.*

I will present an Onsager-type model of polydisperse nematics in which the nematic rods may have variable sizes. Minimization of the free energy provides the joint distribution of orientations and sizes. The model is derived as a large deviation principle for a scaling limit of specific Gibbs ensembles on Young diagrams. (Received August 11, 2015)