



Center for Soft Matter and Biological Physics

Discussion Meeting

James Stidham

(Physics, Virginia Tech)

"Ordering in Magnetic Skyrmion Lattices"

Friday, June 21, 2019

1:30pm - 2:30pm

304 Robeson Hall

Ordering in magnetic skyrmion lattices is an active area of research for skyrmion systems. In this talk, I will present recent results obtained using Langevin molecular dynamic simulations, based on a previously derived particle model of skyrmion. Using a Voronoi cell algorithm, we examined the effect of the Magnus force present in skyrmion systems and how it affects ordering when noise is both present and absent in the system. We observed power law behavior during late time ordering in these skyrmion systems. We also found power law behavior when looking at the difference in time of consecutive events as the system orders.

