Everyone Welcome! Refreshments Provided.

A spherical cow approach to biology: Simulating and analyzing subcellular processes

Ali Tabei

Assistant Professor
Department of Physics
University of Northern Iowa

September 18, 2019
4:00 p.m.
114 Begeman Hall

In this talk, I will showcase how as physicists we have used Monte Carlo simulation to model subcellular processes such as intracellular transport and DNA repair in a simplified fashion. In this talk, I will present the work of two of my students, which they developed a computational model and a computational toolbox to simulate and analyze the binding and nonbinding dynamics of nucleoproteins essential in DNA repair.