

Physics Colloquium

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

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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.

Everyone Welcome! Refreshments Provided.