Biophysics Seminar

Wednesday, April 25, 4:30 pm
Willet Science Center Lecture Hall

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A Bird's Eye View: Tracking Slow Nanometer-Scale Movements of Single Molecular Nano-Assemblies

Recent improvements in methods of single-particle fluorescence tracking have permitted detailed studies of molecular motion on the nanometer scale. In a quest to introduce these tools to the burgeoning field of DNA nanotechnology, we have exploited fluorescence imaging to monitor the diffusive behavior of synthetic molecular walkers, dubbed "Spiders", at the single-molecule level. Hence, this study demonstrates the promise of fluorescent particle tracking as a tool for the detailed characterization of synthetic molecular nano-systems, one molecule at a time.

Please join us for light refreshments
at 4:15pm outside WSC LEC.