

## Physics colloquium

## Undergraduate Thesis Presentations

Date: 5/10/19 Time: 10:00 AM Location: COB2 170 For more information contact

Jay Sharping jsharping@ucmerced.edu

Time:10:30-10:42Title: An Analysis of an Active Nematic System using Topological EntropyAuthors:Ulyses Alvarado Olvera, Kevin Mitchell, Linda Hirst

Time:10:42-10:54Title: Creating Quantum Dots through applied strainAuthors:Harrison Mausolff, David Strubbe

Time:10:54-11:06Title: Simulations and machine learning of Random Walk with Poisson-distributed step sizeAuthors:Steven Nguyen, Chih-Chun Chien

Time:11:06-11:18Title: Simulation and machine learning of Random Walk with time dependence probabilityAuthors:Tony Nguyen, Chih-Chun Chien

Time:11:18-11:30Title: Droplet Retention and Marangoni ForcesAuthors:Joshua Roe, Dustin Kleckner

Time:11:30-11:42Title: Spin Contamination and Spin Projection using Modified Clebsh-Gordon AlgebraAuthors:Yogev Gluzman, Hrant Hratchian

Time:11:42-11:54Title: Diffusive searches by DNA binding proteins in the presence of gene antennaeAuthors:Angel Rubalcava, Ajay Gopinathan