



SOCIETY of PHYSICS STUDENTS

Undergraduate Research Presentations
(by USRA, McNair, REU, COF, Honors students):

“The Dynamics of Microgels with Varying Crosslinker Concentration”, Patrick Barrett

“Characterizing Primary Cilium Mechanics Using Optical Tweezers”, Joel McRaven

“The Time-Dynamics of Alpha Particle Trajectories in Rutherford Scattering”, Michael Angelo De La Cruz Ortiz

“Pacemaker Control in Jellyfish using Computational Fluid Dynamics”, Jaxon Riley

“Characterizing Mechanical Properties of Primary Cilia Using Optical Trapping”, Emily Schaffer

“Solvent Effects on the Interaction of Charged Nanoparticles”, Joseph Ball

Tuesday, October 21, 2025
11:30 am, SI 151