Molecules, Atoms & Nuclei: Exciting Research in low-energy physics

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Atomic physics and low energy nuclear physics are closely related subfields that offer research problems of both applied and fundamental interest. In this talk, I will be discussing my current post-baccalaureate work at Brookhaven National Lab developing a high-resolution α-γ coincidence detector for nuclear applications. Additionally, I will discuss my undergraduate research in two different lab groups: One in the high precision measurement of the neutron lifetime, and the other in the measurement of CP-violating dipole moments, both in the pursuit of physics beyond the Standard Model. Research can be uniquely challenging; I hope my experiences can offer insight into this early stage of a career in scientific research.