

## **Measurement of the Light and Charge Yield of Low Energy Nuclear Recoils in Liquid Xenon at Different Electric Fields**

Liquid xenon detectors continue to lead in the search for the direct detection of dark matter. Still, very few measurements have studied the response of liquid xenon to low-energy nuclear recoils ( $\leq 10$  keV) at different applied electric fields. The neriX detector at Columbia University is a dual-phase time projection chamber that is optimized for simultaneous measurements of light and charge from these low-energy interactions. A coincidence technique is employed to extract the light and charge yields from nuclear recoils in liquid xenon as a function of energy deposited and applied electric field. In this talk, we will discuss the preliminary results of the light and charge yield measurements.