

# Studies of Pb-206 recoils in Liquid Xenon

*Saturday, 2 December 2017 15:00 (20 minutes)*

The Davis Xenon R&D platform (DAX) is a dual-phase time projection chamber (TPC), which is being used as a test bed system for doing xenon detector studies at UC Davis. One of the primary goals of DAX is to characterize a common class of backgrounds in noble element dark matter detectors –heavy nuclei emitted as decay daughters of radon. This platform will help improve our understanding of low-energy nuclear recoils (NR), which is important for informing background models for future experiments. I will report on first measurements of Pb-206 recoils in DAX.

## Session

Works in Progress (15+5 min)

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**Session Classification:** Works in Progress