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Cosmic ray Boosted Dark Matter at PROSPECT Experimental Analysis MANOA ANDRIAMIRADO, Illinois Institute of Technology, CHRISTOPHER CAPPIELLO, The Ohio State University, BRYCE LITTLEJOHN, Illinois Institute of Technology, PROSPECT COLLABORATION — PROSPECT, the PRecision Oscillation and SPECTrum Experiment, is a reactor antineutrino experiment at a very short baseline. The PROSPECT detector consists of a segmented ^{6}Li-doped liquid scintillator deployed at the ONRL High Flux Isotope Reactor (HFIR) with minimal overburden ($<$ 1 m.w.e.). This location provides one of the shortest baselines for a high-statistics measurement of reactor antineutrinos and the opportunity to test hard-to-reach regions of dark matter phase space. This talk will describe the data analysis to search for boosted dark matter in the PROSPECT data.

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