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Status of RD toward the nEXO detector ERIN HANSEN, Drexel University, NEXO COLLABORATION COLLABORATION — The nEXO experiment, based on the success of the EXO-200 detector, will search for neutrinoless double beta decay of ^{136}Xe using ~ 5 tonnes of enriched liquid xenon in a low background time projection chamber. The nEXO Collaboration is engaged in an RD program to improve charge and light readout, high voltage performance, and xenon purity measurement, as well as identify novel low background materials and develop low-noise in-liquid xenon electronics. This talk will present the status and future prospects of this program.

Michelle Dolinski
Drexel University

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