

Abstract Submitted  
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**Latest Results from EXO-200** LISA KAUFMAN, SLAC National Accelerator Laboratory, EXO-200 COLLABORATION — The EXO-200 experiment has made both the first observation of the double beta decay in Xe-136 and the most precisely measured half-life of any two-neutrino double beta decay to date. Consisting of an extremely low-background time projection chamber filled with  $\sim 150$  kg of enriched liquid Xe-136, it has provided one of the most sensitive searches for the neutrinoless double beta decay using the first two years of data. After a hiatus in operations during a temporary shutdown of its host facility, the Waste Isolation Pilot Plant, the experiment has restarted data taking with upgrades to its front-end electronics and a radon suppression system. This talk will cover the latest results of the collaboration including new data with improved energy resolution.

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