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Status and results of the EXO-200 experiment. MATTHEW COON, University of Illinois at Urbana-Champaign, EXO-200 COLLABORATION — The EXO-200 experiment searches for the neutrinoless double-beta decay of Xe136 with an ultra low-background time projection chamber filled with approximately 170 kg enriched Xe. Observation of this rare decay mode would signify the Majorana nature of neutrinos and new physics beyond the Standard Model. The EXO-200 detector was successfully upgraded with new front-end electronics and a radon suppression system and started its Phase-II operation in April 2016. In this talk, we will present recent results and current status of the experiment.

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