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Recent results of EXO-200 and R&D progress of nEXO

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The Enriched Xenon Observatory (EXO) looks for the neutrinoless double-beta decay of Xe136 with a very low-background time projection chamber filled with approximately 170 kg Xe enriched to approximately 80%. Observation of this rare decay mode would signify the Majorana nature of neutrinos and new physics beyond the Standard Model. EXO-200 has already set one of the most stringent limit for the half-life of this lepton-violating process. The detector was upgraded with new front-end electronics and a radon suppression system in 2016. New Results from EXO-200 will be presented together with R&D progress of nEXO, a proposed 5 tonne scale experiment.

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