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EXO-200 latest results

jeudi 15 mars 2018 17:00 (15 minutes)

The EXO-200 experiment consists of a time projection chamber filled with ~150 kg of liquid xenon enriched at 80.7% of the ^{136}Xe isotope. The low background level reached within the detector made possible the detection of the two neutrinos double decay of ^{136}Xe , set the most precise measurement of a double beta decay half life to date and provided one of the most sensitive search for the neutrinoless double beta decay. After a brief hiatus in operations, the experiment restarted data taking with upgrades to its front-end electronics and a Rn suppression system. This presentation will cover the recent results of the EXO-200 collaboration published last year, which include the first two years of data with the detector in its first phase and one year of data taken with the upgraded detector.

Summary

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Classification de Session: Thursday afternoon: Neutrinos (cntd)