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Recent results from EXO-200 experiment

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EXO-200 is a neutrinoless double beta decay (0vBB) experiment using a time projection chamber filled with ~150kg of liquid xenon, enriched in 136Xe. The experiment, located at the Waste Isolation Pilot Plant (WIPP) near Carlsbad New Mexico, recently completed data taking that started in 2011. The last two years of data, after some hardware upgrades, resulted in improved energy resolution. Together with improved analysis techniques for better background discrimination and larger statistics, the final analysis promises a half-life sensitivity well beyond the current value of 3.7×10^25 yr at 90% CL. This talk will present the most recent results from the experiment.

Collaboration name

EXO-200

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