

Abstract Submitted
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The low-energy program of the MAJORANA DEMONSTRATOR RALPH MASSARCZYK, Los Alamos National Laboratory, MAJORANA COLLABORATION — The MAJORANA Collaboration constructed an ultra-low background, modular high-purity Ge detector array to search for neutrinoless double-beta decay in ^{76}Ge . Located at the 4850-ft level of the Sanford Underground Research Facility, the DEMONSTRATOR detector assembly has the goal to show that it is possible to achieve background rates necessary for future ton-scale experiments.

The ultra-clean assembly in combination with low-noise p-type point contact detectors allows measurements with thresholds in the keV range. The talk will give an overview of the low-energy physics and recent achievements made since the completed DEMONSTRATOR array started data taking in mid 2016. Recent results from campaign will be presented, including new limits on bosonic dark matter interaction rates.

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