

Abstract Submitted
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The Majorana Muon Veto System¹ ANDREW LOPEZ, University of Tennessee Knoxville, MAJORANA DEMONSTRATOR COLLABORATION — Majorana Demonstrator (MJD) is one of the major efforts of the DOE NP to demonstrate very high sensitivity for the search of the neutrino less double beta decay. The ultimate goal of MJD is to prove that background levels for a tonne-scale experiment with a similar design can be as low as 1.0 count/(4 keV*t*y). One source of background is cosmic muons that can interact in the detectors or in the shielding. In order to tag cosmic muon induced background, an efficient veto system is necessary. The MJD veto system is made out of thirty two panels of 1" plastic scintillator. Understanding the performance of MJD veto system is vital for reducing the background count. Initial data of veto system performance during the commissioning stage will be presented.

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