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R&D Effort for Plastic Scintillator Based Cosmic Ray Veto System for the Mu2e Experiment

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The proposed Mu2e experiment aims to search for neutrinoless muon to electron conversion with a sensitivity four orders of magnitude better than previous experiments. To achieve this goal, Mu2e needs to obtain a cosmic ray veto efficiency of better than 99.9%. Here we report the preliminary results of recent R&D efforts for a three-layer plastic scintillator veto system. The results are obtained from the studies of a PMT-based prototype module and single scintillator counter read out by SiPMs.

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