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

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The proposed Mu2e experiment aims to search for neutrino-less muon to electron conversion with sensitivity improved by three orders of magnitude relative to previous experiments. To achieve this goal, Mu2e needs to obtain a cosmic ray veto efficiency of better than 99.9%. We report the preliminary results of recent R&D efforts for 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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