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Lessons Learned from Production of Custom Optical Readout Modules at Colorado State University

Suppression of cosmic ray backgrounds is crucial to the measurement of neutrino oscillations using the ICARUS detector in the Short-Baseline Neutrino program at the Fermi National Accelerator Laboratory. A Cosmic Ray Tagger subsystem is under construction that provides almost complete solid angle coverage of the liquid argon Time-Projection Chambers. We present the fabrication process and quality control measures for the silicon photomultiplier-based Optical Readout Modules (ORM) that will read out the 860 m² side-walls constructed from repurposed veto detector modules from the former MINOS experiment.

Mini-abstract

Production and Quality Control of custom Optical Readout Modules for the ICARUS Cosmic Ray Tagger

Experiment/Collaboration

ICARUS

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