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Data Quality and Performance of the NO ν A Prototype Detector

Content :

The NuMI Off-Axis ν_e Appearance (NO ν A) project is a long-baseline neutrino experiment. It utilizes the NuMI neutrino beam at Fermilab and consists of two functionally-identical plastic, scintillator-filled detectors placed 14 milliradians off-axis from the beam and 810 km apart. A 209 ton prototype detector, the Near Detector On the Surface (NDOS), was built and began taking initial neutrino data in December 2010. NDOS is 110 milliradians off-axis from the NuMI beam and also receives neutrinos from the Booster Neutrino Beam. As NDOS is in the commissioning phase, metrics are being developed to improve understanding of the detector as well as monitor the quality of data. Performance of the prototype detector will be presented.

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