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Study of Quasi-elastic interactions using the NOvA Near Detector Prototype

Thursday, 25 October 2012 18:00 (1h 30m)

NOvA is a 14 KTon long-baseline neutrino oscillation experiment currently being installed in the NUMI off-axis neutrino beam produced at Fermilab. A 222 Ton prototype NOvA detector (NDOS) was built and operated in the neutrino beam for over a year to understand the the response of the detector and its construction. Muon neutrino interaction data collected in this test are being analyzed to identify quasi-elastic charge-current interactions and measure the behavior of the Quasi-elastic muon neutrino cross section. The status of these quasi-elastic studies in NDOS will be shown.

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