

Abstract Submitted
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ν_e Charged-Current Inclusive Cross Section Measurement and The Status of Flux Constraints Using $\nu-e$ Elastic Scattering in the NOvA Near Detector¹ KULDEEP MAAN, Panjab University, Chandigarh, India, NOVA COLLABORATION — The NOvA experiment is a long-baseline neutrino oscillation experiment designed to measure (a) the appearance of electron neutrino and antineutrino, and (b) the disappearance of muon neutrino and antineutrino. It consists of two segmented, liquid-scintillator detectors positioned 14 mrad off-axis from the Fermilab NuMI beam. In addition to the neutrino oscillation measurements, the NOvA Near Detector, located at Fermilab, provides an excellent opportunity for the measurement of neutrino interactions. In this talk, I present a measurement of the ν_e charged-current inclusive cross section between 1-3 GeV, and the status of flux constraints using $\nu - e$ elastic scattering.

¹NOvA Collaboration

Kuldeep Maan
Fermilab

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