

## Measurement of Neutrino-Electron Elastic Scattering at NOvA Near Detector

### Authorship annotation

for the NOvA Collaboration

### Session and Location

Wednesday Session, Poster Wall #121 (Auditorium Gallery Left)

### Abstract content

The NOvA experiment is a long-baseline neutrino oscillation experiment designed to measure muon neutrino to electron neutrino oscillation. It uses the NuMI beam at Fermilab and consists of a far detector in Ash River, Minnesota and a near detector at Fermilab. An accurate prediction of the neutrino flux is important to both oscillation and cross-section studies at NOvA. Neutrino-electron elastic scattering is a pure leptonic process with well-known cross section. It provides an in situ constraint on the absolute flux. This poster discusses the measurement of neutrino-electron elastic scattering and the constraining of neutrino flux at the NOvA Near Detector.

### Poster included in proceedings:

yes

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**Session Classification :** Poster Session Wednesday

**Track Classification :** Poster (participating in poster prize competition)