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Electron Neutrino Appearance in NOvA

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NOvA is a long-baseline neutrino oscillation experiment optimized for electron neutrino appearance. It consists of two functionally identical, nearly fully-active liquid-scintillator tracking calorimeters. The Near Detector (ND) at FNAL will be used to study the neutrino beam spectrum and composition before oscillation, and measure background rate to the electron neutrino appearance search. The Far Detector, 810 km away in Northern Minnesota, will observe the oscillated beam and will be used for extraction of oscillation parameters. In this talk, I will describe a technique used for selecting electron neutrino interaction events in NOvA and give a brief overview of the complete electron neutrino oscillation analysis.

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