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The NOvA electron neutrino appearance analysis

The NOvA experiment will observe the oscillation of muon neutrinos into electron neutrinos between the Near Detector at Fermilab and the Far Detector at Ash River, Minnesota. With the ability to run neutrino and antineutrino beam, and with the the longest baseline of any accelerator neutrino experiment, NOvA aims to measure the ordering of the neutrino mass states and probe CP violation in the lepton sector.

This poster gives an overview of the techniques used in the electron neutrino analysis, and presents sensitivities for the determination of the mass hierarchy, theta23 octant, and the CP violating phase delta.

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