

Abstract Submitted
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Electron Neutrino identification in the NO ν A Detectors HIMANSU SAHOO, Argonne National Laboratory, NO ν A COLLABORATION — The NO ν A long-baseline neutrino experiment is designed to search for oscillations of muon neutrinos to electron neutrinos. These oscillations are sensitive to the neutrino mass hierarchy and CP violation effects. NO ν A will use the off-axis muon neutrino beam produced by the NuMI beam at Fermilab. It consists of a Near Detector at Fermilab and a Far Detector 810 km away at Ash River, Minnesota. The main challenge of the experiment is the identification of the ν_e charged-current events. In this talk, I will discuss the several techniques developed to separate the charged-current signal events from neutral current background events.

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