



Contribution ID: 152

Type: Parallel contribution

Electron Antineutrino Appearance in MINOS

Tuesday 9 August 2011 15:15 (15 minutes)

The Main Injector Neutrino Oscillation Search (MINOS) is a long-baseline neutrino experiment that utilizes Fermilab's NuMI beam and two steel-scintillator calorimeters. Designed to search for $\nu\mu$ disappearance, MI-NOS provides an opportunity to study ve appearance as well. Analysis methods developed by the MINOS ve group have facilitated the placement of limits upon the mixing angle associated with $\nu\mu$ to ve oscillations. In addition, the experiment is capable of repeating its analyses using an antineutrino beam. Recent observations of anti- $\nu\mu$ disappearance have motivated supplementary data collection with the antineutrino beam configuration. The benefits of an anti- νe appearance study and MINOS's anti- νe sensitivity will be presented.

Author: Mr SCHRECKENBERGER, Adam (University of Minnesota)Presenter: Mr SCHRECKENBERGER, Adam (University of Minnesota)Session Classification: Neutrino Physics

Track Classification: Neutrino Physics