



Contribution ID: 193

Type: **Parallel contribution**

Search for Electron Neutrino Appearance in MINOS

Tuesday, 9 August 2011 14:55 (20 minutes)

The MINOS Collaboration continues its search for electron neutrino appearance in the NuMI beam at Fermilab. Neutrinos in the beam interact in the Near Detector, located 1 km from the beam source, allowing us to characterize the backgrounds present in our analysis. In particular, we can estimate the number of electron neutrino candidate events we expect to see in the Far Detector (735 km away, in the Soudan mine in northern Minnesota) in the presence or absence of muon neutrino to electron neutrino oscillation. Recent efforts to improve the sensitivity of the analysis, including upgrades to the event identification algorithm and fitting procedure, are discussed, and the latest results from the search are presented.

Primary author: Mr ORCHANIAN, Mhair (Caltech)

Presenter: Mr ORCHANIAN, Mhair (Caltech)

Session Classification: Neutrino Physics

Track Classification: Neutrino Physics