

Abstract for an Invited Paper
for the APR07 Meeting of
The American Physical Society

Recent Results from the MINOS Experiment

MAYLY SANCHEZ, Harvard University

MINOS is a long baseline neutrino oscillation experiment designed to make precision measurements of the neutrino mixing parameters associated with the atmospheric neutrino mass splitting. Using a high powered neutrino beam from the Main Injector (NuMI) facility at Fermilab, it compares the neutrino energy spectrum for charged current muon neutrino interactions observed in two large detectors located at Fermilab and in the Soudan mine in northern Minnesota at a distance of 735 km. We present the ν_μ disappearance analysis of the final data set from the first year of data corresponding to 1.27×10^{20} protons on target. In June 2006 MINOS started its second year of data-taking and as of now it has accumulated over 2×10^{20} protons on target, the largest sample of neutrino interactions collected to date, current status and performance will be presented.