



Contribution ID: 515

Type: Poster

New results for muon neutrino to electron neutrino oscillations in the MINOS experiment

MINOS is a long-baseline neutrino oscillation experiment situated along Fermilab's high-intensity NuMI neutrino beam. MINOS has completed an updated search for muon neutrino to electron neutrino transitions, observation of which would indicate a non-zero value for the neutrino mixing angle θ_{13} . The present 7×10^{20} protons-on-target data set represents more than double the exposure used in the previous analysis. The new result and its implications are presented.

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Track Classification: 07 - Neutrinos