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An updated search for electron neutrino and antineutrino appearance in MINOS

MINOS is a long-baseline neutrino oscillation experiment situated along Fermilab's high-intensity NuMI neutrino beam. MINOS is capable of searching for muon neutrino to electron neutrino transitions, observations of which would indicate a nonzero value for the neutrino mixing angle theta-13. A new study will analyze an additional 3.4e20 protons-on-target of mostly antineutrino data to look for the oscillation of muon antineutrinos to electron antineutrinos. A planned joint fit will also combine these antineutrino results with the full set of MINOS neutrino data, for the most sensitive MINOS measurement of theta-13 to date. The latest results for this analysis will be presented.

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