

Abstract Submitted
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$\nu_\mu \rightarrow \nu_e$ **oscillation study in MINOS** TINGJUN YANG, MINOS COLLABORATION — The MINOS (Main Injector Neutrino Oscillation Search) is a long baseline neutrino experiment using the NuMI neutrino beam to study neutrino oscillations. MINOS will be able to improve the limit on the neutrino mixing angle θ_{13} by searching for an electron neutrino appearance signal in the far detector from ν_μ beams. We may make the first measurement of θ_{13} with improved proton intensity if θ_{13} is found to be sufficiently large. I will present the method to identify electron neutrinos and show the systematics analysis using the MINOS near detector data.

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