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Far Detector Background Prediction Technique for a θ_{13} search in the MINOS experiment SARAH PHAN-BUDD, Argonne National Laboratory, MINOS COLLABORATION — The Main Injector Neutrino Oscillation Search, or MINOS, is a long-baseline experiment which uses neutrinos created with the Fermilab NuMI beamline to search for neutrino oscillations. The MINOS experiment is conducting a search for muon neutrino to electron neutrino transitions. An observation of such transitions would indicate a non-zero value for the neutrino mixing angle θ_{13} . This talk will focus on the technique used to create the far detector background prediction based on the near detector data and the systematic errors associated with this technique.

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