

Abstract Submitted
for the 4CF13 Meeting of
The American Physical Society

Future Neutrino Oscillation Parameter Sensitivities for T2K and NO ν A MATTHEW BASS, DANIEL CHERDACK, ROBERT WILSON, Colorado State University, T2K COLLABORATION — Long-baseline neutrino experiments have the ability to measure the parameters of the mixing matrix that describes neutrino oscillations. Projecting the sensitivity of current and future experiments to these parameters plays a critical role in planning the next generation of experiments. After a brief introduction neutrino oscillations preliminary future sensitivity projections from a combined analysis for the Tokai to Kamioka (T2K) and NuMI Off-Axis Electron-neutrino Appearance (NO ν A) experiments will be discussed with particular emphasis on the methods used and the ability of these experiments to constrain the oscillation parameters, detect Charge-Parity (CP) violation, and determine the neutrino mass hierarchy.

Matthew Bass
Colorado State University

Date submitted: 18 Sep 2013

Electronic form version 1.4