

ICHEP2012



Contribution ID: 114

Type: **Parallel Sessions**

The search for CP violation and the determination of the neutrino mass hierarchy in NO ν A and LBNE

Thursday 5 July 2012 16:00 (15 minutes)

With the recent discovery of a non-zero value of the neutrino mixing angle θ_{13} , the NuMI Off-Axis ν_e Appearance (NO ν A) long baseline neutrino oscillation experiment, currently under construction, has unique sensitivity to both the CP-violating neutrino mixing phase and the neutrino mass-hierarchy. Beyond NO ν A, the proposed Long-Baseline Neutrino Experiment (LBNE) is designed for much greater sensitivity to the CP-violating phase while providing a very rich physics program. I will review the design, capabilities and schedule of both experiments.

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Session Classification: TR 8 - Neutrinos RM 219

Track Classification: Track 8. Neutrinos