

Expected Sensitivities from the ν_μ Disappearance Analysis using the NO ν A Detector.

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The NO ν A experiment is a neutrino oscillation experiment based out of Fermilab. It will use the newly upgraded NuMI beam line with one detector at Fermilab and a second 14 kton, liquid scintillator detector currently being constructed 810 km from Fermilab in northern Minnesota. The ν_μ disappearance analysis can significantly improve the world's best measurement of θ_{23} and $|\Delta m_{32}^2|$. Presented here are the expected sensitivities from this analysis as well as initial commissioning data from the far detector.

APS member ID

61150602

Primary author: Mr BAIRD, Michael (Indiana University)

Presenter: Mr BAIRD, Michael (Indiana University)

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