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NOvA in 10 min

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NOvA is a second generation, long-baseline, neutrino oscillation experiment that uses the NuMI beam, the world's most powerful neutrino beam, from Fermilab. It consists of two functionally similar, finely segmented, liquid scintillator calorimeter detectors that operate 809 km apart, 14 mrad off-axis from the beam. NOvA's main physics goals include measuring electron (anti)neutrino appearance and muon (anti)neutrino disappearance. These measurements can provide constraints on the $\sin^2 \theta_{23}$ octant, the mass hierarchy, and the CP violating phase, along with precision measurements of $\sin^2 \theta_{23}$ and Δm_{32}^2 . In this talk, an overview of NOvA's experimental effort will be presented.

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