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NOvA in 10 Minutes

Thursday, 19 August 2021 09:00 (15 minutes)

NOvA is a long-baseline neutrino oscillation experiment which uses two functionally identical liquid scintillator detectors separated by 810 km. Both detectors are situated 14 mrad off-axis with respect to the NuMI neutrino beam at Fermilab. NOvA is primarily designed to measure the muon (anti)neutrino disappearance and electron (anti)neutrino appearance to constrain the neutrino mass hierarchy, the θ_{23} octant and the CP violating phase δ_{CP}. Beyond oscillation analyses, the high statistics of neutrino and antineutrino data in the Near Detector can also be used to perform neutrino cross-section measurements. In this talk, an overview of the NOvA experiment and the recent progress are presented.

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