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Neutrino Oscillation Results from NOvA Experiment

Wednesday, February 24, 2021 5:30 PM (20 minutes)

NOvA is a long-baseline neutrino experiment that measures oscillation using the muon neutrinos and antineutrinos delivered by the NuMI beam at Fermilab. Neutrino oscillation is detected by observing appearance of electron (anti)neutrinos and disappearance of muon (anti)neutrinos at the Far Detector located near Ash River, MN, as compared to the Near Detector at Fermilab.

In this talk, I will present the joint analysis of neutrino and antineutrino oscillation measurement in the three-flavor paradigm and highlight the latest constraints on neutrino mass ordering, mixing parameters and CP phase violation in leptons, by the NOvA experiment. I will also outline the planned upgrades and the future measurement sensitivity of the experiment.

Collaboration name

NOvA Collaboration

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