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Recent Oscillation Analysis and Results from NOvA

Monday, August 31, 2026 12:00 PM (30 minutes)

NOvA is a long-baseline, accelerator-based neutrino oscillation experiment, optimized for electron neutrino measurements. It utilizes the upgraded, Megawatt-capable NuMI beam from Fermilab to measure electron-neutrino appearance and muon-neutrino disappearance at its Far Detector in Ash River, Minnesota. NOvA's goals include resolving the neutrino mass hierarchy problem, constraining the CP-violating phase, and determining the octant of θ_{23} .

This talk will present NOvA's latest oscillation analyses and results based on the full ten-year dataset collected between 2013 and 2023, including both combined and independent fits to muon-(anti)neutrino disappearance and electron-(anti)neutrino appearance data. Combined with constraints from reactor neutrino experiments, the new results further strengthen the preference for the normal mass ordering.

Primary author: BIAN, Jianming (University of California, Irvine)

Presenter: BIAN, Jianming (University of California, Irvine)

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