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Latest Three Flavor Neutrino Oscillation Results from NOvA

Tuesday, January 11, 2022 3:00 PM (20 minutes)

NOvA is a long-baseline, accelerator neutrino experiment measuring oscillation and interaction physics. The NuMI beam at Fermilab is used to generate muon neutrinos that pass in their unoscillated state through the Near Detector, located at Fermilab, and the Far Detector 810 km away in Ash River, Minnesota. NOvA studies the muon neutrino deficit and electron neutrino excess with both neutrino and antineutrino beams at the Far Detector, to measure the neutrino oscillation parameters θ_{23} and Δm_{32}^2 , as well having sensitivity to the neutrino mass ordering and the CP-violation phase, δ_{CP} . In this talk we present the latest neutrino oscillation results from NOvA using both neutrino and antineutrino data, with 13.6×10^{20} and 12.5×10^{20} proton-on-target respectively.

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