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New results from NOvA

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NOvA is a long-baseline neutrino oscillation experiment at Fermilab. It uses two functionally-identical detectors at a distance of 810 km to measure electron-neutrino appearance and muon-neutrino disappearance in the NuMI muon neutrino beam.

These measurements address the remaining unknowns in neutrino oscillations: the mass hierarchy, the θ_{23} octant and possibly the CP violation in the leptonic sector.

I will present the current status of the NOvA experiment and new results after two years of data taking equivalent to 6.05×10^{20} POT for a full 14 kton detector exposure.

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