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## Physics reach of electron neutrino appearance measurements in NOvA

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NOvA is a long-baseline neutrino oscillation experiment, which consists of two finely-segmented liquid-scintillator detectors operating 14 mrad off-axis from the NuMI muon neutrino beam. With an 810 km baseline, the study of muon to electron neutrino oscillations is sensitive to the still unknown charge-parity phase angle and the neutrino mass ordering. I will describe the electron neutrino appearance analysis and NOvA's latest results, and discuss the experiment's projected sensitivity to determine the mass hierarchy and discover CP violation in future analyses with increased exposure and the addition of antineutrino datasets.

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