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NOvA Experiment

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The NOvA is the new generation long-baseline neutrino oscillation experiment using a beam of neutrinos sent from Fermi National Accelerator Laboratory (Illinois, US) to 810 km distant far detector at Ash River (Minnesota, US). Functionally identical near and far detectors, now under construction, will be used to search for CP-violating effects in the neutrino sector and to study the ordering of the neutrino mass eigenstates. This talk will cover the goals of the NOvA experiment, describe the current status of the detector construction and commissioning, and discuss expected sensitivities to determination of the mass hierarchy, constraint of the theta-23 octant, and the measurement of the CP-violating parameter delta-CP.

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