

# Abstract

The NOvA (Neutrino Oscillation ) experiment was set out to measure the neutrino mass hierarchy, the neutrino CP-violating phase  $\delta_{CP}$ , and the precision measurement of the octant of the mixing angle  $\theta_{23}$ . NOvA utilizes the Fermilab NuMI beam, and places one near detector at Fermilab and one far detector at Minnisota, 800 miles away from Fermilab. NOvA's most recent results show a non-maximal mixing angle  $\theta_{23}$ .