Contribution ID: **255** Type: **Poster**

Recent Results from NOvA

NOvA is a long-baseline experiment studying neutrino oscillations and measuring cross sections in the Fermilab NuMI neutrino beam. It consists of two functionally identical, fine-grained detectors which are separated by 810 km and situated 14.6 mrad off the NuMI beam axis. By measuring the transition probabilities $P(\nu_\mu \to \nu_e)$ and $P(\nu \to \nu)$ using both neutrinos and antineutrinos, NOvA is able to probe the following neutrino-mixing parameters: m^2_{32}, the mixing angle $_{23}$, the CP-violating phase $_{CP}$ and the neutrino mass hierarchy. We present the latest NOvA measurements using neutrino and antineutrino disappearance and appearance obtained in 2020.

Working group

WG1

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