

# Determination of the neutrino oscillation parameters through the unified approach of Feldman and Cousins by the NOvA Experiment

*martedì 18 giugno 2024 17:30 (2 ore)*

The NOvA experiment presents new measurements of the neutrino oscillation parameters obtained through a fit to data from the one megawatt NuMI neutrino beam in the NOvA detectors. The analysis uses muon-neutrino disappearance and electron-neutrino appearance in both neutrino and antineutrino beam polarities. With the addition of  $\sim 100\%$  more neutrino-mode beam exposure over the previously reported results, this analysis employs the unified approach of Feldman and Cousins to determine the confidence level intervals for the oscillation parameters  $\theta_{23}$ ,  $\delta_{CP}$ , and  $\Delta m_{32}^2$ , for both neutrino mass orderings.

## Poster prize

Yes

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NOvA

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**Classifica Sessioni:** Poster session and reception 1

**Classificazione della track:** Accelerator neutrinos