

# 31st International Symposium on Lepton Photon Interactions at High Energies



Contribution ID: 137

Type: **Talk**

## Neutrino Oscillations at the NOvA experiment

*Wednesday 19 July 2023 12:05 (15 minutes)*

NOvA is a long-baseline neutrino oscillation experiment based at the Fermi National Accelerator Laboratory, USA. Utilizing two functionally-identical liquid scintillator tracking calorimeters placed 810 km apart, NOvA observes the appearance of electron (anti)neutrinos and the disappearance of muon (anti)neutrinos in the muon (anti)neutrino-dominated NuMI beam. By observing these (anti)neutrino oscillations, NOvA is probing several key questions in the physics of neutrino oscillations including the neutrino mass ordering, leptonic CP violation phase  $\delta_{CP}$ , the larger neutrino mass splitting  $\Delta m_{32}^2$ , and the mixing angle  $\theta_{23}$ . Up-to-date neutrino oscillation results from NOvA will be presented.

**Primary author:** Dr KOLUPAEVA, Liudmila (JINR)

**Presenter:** Dr KOLUPAEVA, Liudmila (JINR)

**Session Classification:** Neutrino

**Track Classification:** Neutrino physics