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Neutrino Oscillations at the NOvA experiment

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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 δ_{CP} , the larger neutrino mass splitting Δm_{32}^2 , and the mixing angle θ_{23} . Up-to-date neutrino oscillation results from NOvA will be presented.

Primary author: Dr KOLUPAEVA, Liudmila (JINR)

Presenter: Dr KOLUPAEVA, Liudmila (JINR)

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