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Results from the NOvA Experiment

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NOvA is a long-baseline accelerator-based neutrino oscillation experiment that is optimized for $\nu_\mu - \nu_e$ measurements. It uses the upgraded NuMI beam from Fermilab and measures ν_e appearance and ν_μ disappearance at its Far Detector in Ash River, Minnesota. The ν_e appearance analysis at NOvA aims to resolve the neutrino mass hierarchy problem and to constrain the CP-violating phase. The first data set of 2.74×10^{20} protons on target equivalent exposure taken by was analyzed in 2015 and provided evidence of $\nu_\mu - \nu_e$ oscillation. At PASCOS we plan to update the community with new analyses using approximately twice the beam exposure.

Summary

Co-author: GROUP, Robert (University of Virginia)

Presenter: Dr DAVIES, Gavin (Indiana University)

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