



Contribution ID: 253

Type: **Presentation**

Summary of the Second Numu Disappearance Results from the NOvA Experiment

Monday, 31 July 2017 13:30 (18 minutes)

In light of the Nobel Prize awarded for neutrino oscillations in 2015, it is an exciting time to be a part of a long-baseline neutrino oscillation experiment. NOvA is one such experiment based out of Fermilab National Accelerator Laboratory, which uses two liquid scintillator detectors, one at Fermilab (the near” detector) and a second 14 kton detector in northern Minnesota (thefar” detector.) The numu disappearance analysis is sensitive to the mixing parameters θ_{23} and Δm_{32}^2 and is capable of shedding light on the open question of whether or not θ_{23} is maximal. This talk will present the results from the second ν_μ disappearance analysis using a full detector equivalent of 6.05×10^{20} POT, which rejects the maximal mixing solution at 2.6σ .

Primary author: Dr BAIRD, Michael (University of Virginia)

Presenter: Dr BAIRD, Michael (University of Virginia)

Session Classification: Neutrino Physics

Track Classification: Neutrino Physics