

The NOvA Experiment

Tuesday, 10 September 2013 16:40 (20 minutes)

Massive neutrinos provide the first hints at physics beyond the standard model. The NOvA experiment is poised to further refine our understanding of neutrino mixing, one of the implications of neutrino mass. A long-baseline neutrino oscillation experiment in the Fermilab NuMI neutrino beam line, NOvA employs two detectors, hundreds of km apart. Comparisons of the beam composition at the two sites yield precision measurements of the parameters governing neutrino oscillation. In this talk, I will describe the goals and status of the NOvA experiment and present initial data from the Far Detector, which is currently being constructed in Northern Minnesota.

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Session Classification: Neutrino Oscillations/ Neutrino Beams II

Track Classification: Neutrino Oscillations/ Neutrino Beam Physics