

NOvA experiment: overview and status

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The NOvA experiment is a long-baseline accelerator based neutrino oscillation experiment. It uses the upgraded Fermilab NuMI beam and measures electron-neutrino appearance and muon-neutrino disappearance at its far detector in Ash River, Minnesota. Goals of the experiment include measurements of θ_{13} , the neutrino-mass hierarchy and the CP-violating phase. NOvA has begun to take data this year and will have its first physics results in 2014. This talk provides an overview of the scientific reach of the NOvA experiment, the status of detector construction and physics analysis and a first glimpse of far-detector data.

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