Contribution ID: **11** Type: **talk**

First Data from the NOvA experiment

Tuesday 17 September 2013 16:06 (22 minutes)

NOvA is an off-axis long baseline neutrino experiment searching for $\nu_\mu \rightarrow \nu_e$ oscillations using an upgraded NuMI neutrino beam from Fermilab, Batavia, IL.
The main physics goal is a measurement of the CP violation and establishing the neutrino masses hierarchy.
A large 14 kton Far detector, comprised of liquid scintillator contained in extruded PVC cells, will also provide an opportunity for other non-accelerator physics searches.
A large portion of the Far detector has been built with the first neutrino beam data expected by July 2013. As both Far detector mass and beam power increase throughout 2013 and 2014, the reach for the physics results grows as well.

Author: PEREVALOV, Denis (Fermi National Accelerator Laboratory)

Presenter: PEREVALOV, Denis (Fermi National Accelerator Laboratory)

Session Classification: Working Group 2

Track Classification: Working Group 2