



## *Séminaire du Laboratoire de l'Accélérateur Linéaire*

**Michael Baird**

University of Sussex

**Mardi 24 Novembre 2015 à 11 :00**

## **Summary of the first neutrino oscillation results from the NOvA experiment**

In light of the recently awarded Nobel Prize 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 (the "far" detector.) The primary physics goals of the NOvA experiment are to measure neutrino mixing parameters through both the  $\nu_\mu$  disappearance and  $\nu_e$  appearance channels using neutrinos from the newly upgraded NuMI beam line. This talk will present the details and results from these two primary analyses using the NOvA first analysis data set.

**Salle 101 du LAL - Bât. 200, Orsay**

Thé et café seront servis 5 mn avant le séminaire



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