

## First results from MINOS+ and final results from MINOS

*Thursday, 28 August 2014 15:20 (20 minutes)*

The MINOS and MINOS+ experiments are long-baseline neutrino oscillation experiments using the MINOS detectors in two incarnations of the Fermilab NuMI neutrino beam. The first combined MINOS and MINOS+ results, which yield the most precise measurement of the mass-splitting  $\Delta m_{21}^2$ , will be presented. The data are also used to probe the  $\theta_{23}$  octant degeneracy, the mass hierarchy and the CP violating phase. Also presented is the final sterile neutrino analysis using data collected by MINOS. The first look at neutrino mixing using the upgraded NuMI beam, and future prospects of the MINOS+ experiment will be shown.

**Primary author:** Dr WHITEHEAD, Leigh (UCL)

**Presenter:** Dr WHITEHEAD, Leigh (UCL)

**Session Classification:** Neutrinos and related astrophysical implications

**Track Classification:** 3) Neutrinos and related astrophysical implications