

Lundi 15 novembre 11h00

CEA-Saclay Bât 141, salle André Berthelot

Recent Results from the MINOS Experiment

ALFONS WEBER

(University of Oxford)

Neutrinos are one of the first particles that exhibit physics beyond the standard model. They can change from one flavour to another. MINOS is a long baseline neutrino oscillation experiment that sits in a beam of almost pure muon neutrinos. They are generated by the NUMI beam line at Fermilab. The Experiment consists of two detectors. One is located close to the neutrino production target characterise the neutrino beam. A second detector is 735 km further north in the Soudan underground laboratory to re-measure the beam composition after neutrino transitions have taken place. The results released by the MINOS collaboration this year will be reviewed, after a short overview of neutrino oscillation physics. They include the measurement of neutrino and anti-neutrino oscillation parameters as well as the results from the so far unobserved muon to electron neutrino transition.

Le café sera servi 10 minutes avant.

NB : La présentation d'une pièce d'identité est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance Emilie Chancrin, tél. 01 69 08 23 50, e-mail : emilie.chancrin@cea.fr. (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).