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WEEKLY CALENDAR

May 10, 2010

Special Colloquium

3:40 PM, May 10, 2010
435 Nicholson Hall

"Muon neutrino to electron neutrino oscillations in the MINOS experiment"

Lisa Whitehead
Brookhaven National Laboratory

Host: Thoms Kutter

MINOS is a long-baseline neutrino oscillation experiment situated along Fermilab's high-intensity NuMI neutrino beam. MINOS has completed a search for muon neutrino to electron neutrino transitions, observation of which would indicate a non-zero value for the neutrino mixing angle θ_{13} . After an introduction to neutrino oscillations and the MINOS experiment, the newest result and its implication will be presented.

PUBLICATIONS:

1. "Intravascular imaging with a storage phosphor detector", **P.M. Shikhaliev, P. Petrek, K.L. Matthews II, S.G. Fritz**, L.S. Bujenovic, T. Xu, Phys. Med. Biol. 55 (2010) pp.2841–2861.