

CU Physics Department Particle Seminar

Wednesday, March 3, 2010 831 Pupin Hall 2:30 PM

Probing the neutrino sector at MINOS and NOvA

The confirmation of non-zero neutrino mass has opened up a host of questions about the neutrino sector. After a brief review of what we know and don't know, I describe current and upcoming experimental efforts, in particular those directed at measuring a possible non-zero value for the mixing angle θ_{13} . I present in detail the latest results from MINOS and the design and physics potential of the NOvA long-baseline neutrino experiment currently under construction at Fermilab (near site) and Ash River (far site).

Ryan Patterson, Caltech

