

CU Physics Department Particle Seminar

Wednesday, January 27, 2010 705 Pupin Hall 1:00 PM



MiniBooNE Oscillation Results and the Sterile Neutrino Mystery

MiniBooNE is a short-baseline experiment located at Fermilab, sensitive to neutrino oscillations for large neutrino mass-squared splittings. These oscillation searches have been motivated by the 3.8 sigma excess of electron antineutrino events in a muon antineutrino beam, observed by the LSND experiment in 1995. This talk will present recent oscillation results from MiniBooNE. The implications for the LSND excess will be discussed within the context of sterile neutrino oscillation models.

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