



ID de Contribution: 3

Type: Non spécifié

Recent results from MiniBooNE: update on low-energy excess and cross-section measurements

jeudi 11 mars 2010 10:50 (15 minutes)

MiniBooNE is a neutrino oscillation experiment located in Fermilab, USA. Its primary goal was to verify or reject neutrino oscillations as the source of the excess of events observed by the LSND experiment at LANL. From its start of operation in 2002, MiniBooNE has reported many interesting scientific results including low-energy excess in neutrino mode and various cross-section measurements.

My talk will be concentrated on our recent studies aimed at better understanding of low-energy excess. I will describe new neutrino interaction channels proposed to explain the observed excess of events. Anti-neutrino mode results with updated statistics will be presented together with recent cross-sections measured in MiniBooNE detector.

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Classification de Session: Neutrinos, Dark Matter

Classification de thématique: Experiment