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Status of the MiniBooNE Anti-neutrino Oscillation Analysis

ZARKO PAVLOVIC, Los Alamos National Laboratory, MINIBOONE COLLABORATION — The MiniBooNE experiment was designed to test the results from the LSND experiment which saw evidence for $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$ oscillations at $\Delta m^2 \sim 1 \text{ eV}^2$. The LSND signal cannot be reconciled with neutrino oscillations observed with solar and atmospheric neutrinos within the framework of three Standard Model neutrinos. Previously MiniBooNE looked for the appearance of electron neutrinos in a ν_μ beam but saw no evidence for oscillations. Currently MiniBooNE is taking data using the $\bar{\nu}_\mu$ beam. This talk presents the status of the oscillation analysis using anti-neutrino data.

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