

Abstract Submitted
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Status of the MiniBooNE combined appearance analysis ZARKO PAVLOVIC, Los Alamos National Laboratory, MINIBOONE COLLABORATION — MiniBooNE experiment was designed to test if the anomalous LSND signal is due to neutrino oscillations. The LSND experiment observed an excess of $\bar{\nu}_e$ events in a $\bar{\nu}_\mu$ beam. This result cannot be explained by oscillations of 3 Standard Model neutrinos. A possible explanation is the existence of light sterile neutrinos. The MiniBooNE experiment collected data using both a ν_μ beam and a $\bar{\nu}_\mu$ beam looking for signal at the same L/E as LSND. In neutrino mode an excess of events was observed at low energies, however the shape of the excess was not consistent with LSND within a simple model with 1 sterile neutrino. In anti-neutrino mode an excess of events was observed in both low and high energy region consistent with LSND type oscillations. The status of a combined analysis of neutrino and anti-neutrino mode will be presented.

Zarko Pavlovic
Los Alamos National Laboratory

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