

MiniBooNE experiment: recent results and future plans

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MiniBooNE is the neutrino oscillation experiment located at Fermi National Accelerator Laboratory in Batavia, USA. The main goal of this experiment is to confirm or reject the evidence for muon to electron anti-neutrino oscillations seen by LSND experiment at LANL.

First neutrino events were detected in 2002 and since then MiniBooNE obtained many interesting results including the low-energy excess of electron neutrinos over the background which is still not understood.

My talk will describe production and detection of neutrinos at MiniBooNE as well as event selection and analysis techniques. I will then present recent cross-section and oscillation results and briefly go over the future plans.

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