First Anti-Neutrino Oscillation Results from MiniBooNE

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The first MiniBooNE neutrino oscillation results published April of 2007 ruled out the simple two neutrino oscillation hypothesis of the LSND experiment. However, MiniBooNE unexpectedly observes a significant excess of electron-like events below a reconstructed neutrino energy of 475 MeV. For the last two years MiniboNE has been running in anti-neutrino mode. The anti-electron neutrino data sample can shed light on the neutrino low energy excess since they share many of the same systematic errors. As well, a search for oscillation at higher energy can be performed. Updated results of the neutrino low energy excess and new anti-neutrino oscillation results will be presented.