

Abstract Submitted  
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**Latest results from a search for  $\nu_\mu \rightarrow \nu_e$  and  $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$  with the Mini-BooNE Experiment** REX TAYLOE, Indiana University, MINIBOONE COLLABORATION — The MiniBooNE experiment, located at Fermilab on the Booster Neutrino Beamline, has searched for  $\nu_\mu \rightarrow \nu_e$  and  $\bar{\nu}_\mu \rightarrow \bar{\nu}_e$  oscillations in the range  $0.1 < \Delta m^2 < 5.0 \text{ eV}^2$  as indicated by results from the LSND experiment. MiniBooNE has recently completed  $\bar{\nu}_\mu$  running after collecting  $11.3 \times 10^{20}$  protons-on-target (POT). Combining those results with previously collected  $\nu_\mu$  data from  $6.5 \times 10^{20}$  POT yields a  $3.8\sigma$  excess over background, consistent with that expected from the LSND result. These results will be presented along with plans for continued data collection with MiniBooNE.

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