MiniBooNE Report

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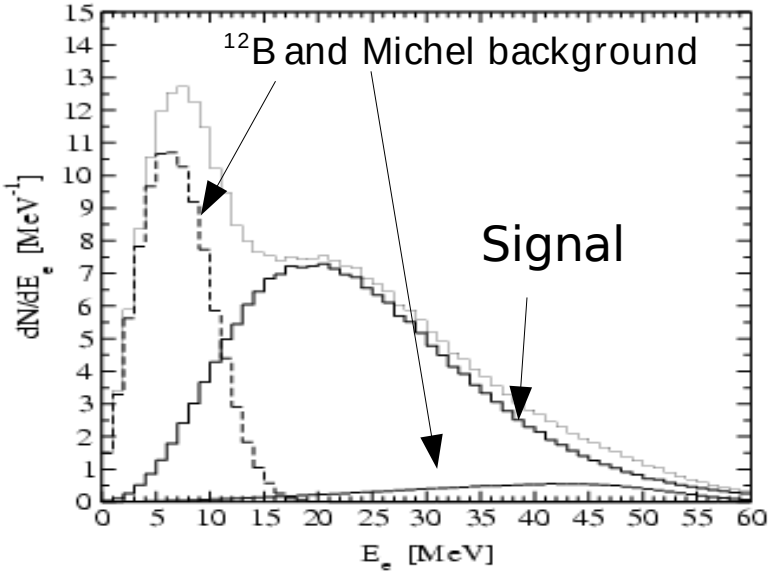
22 May 2006

Shutdown Update

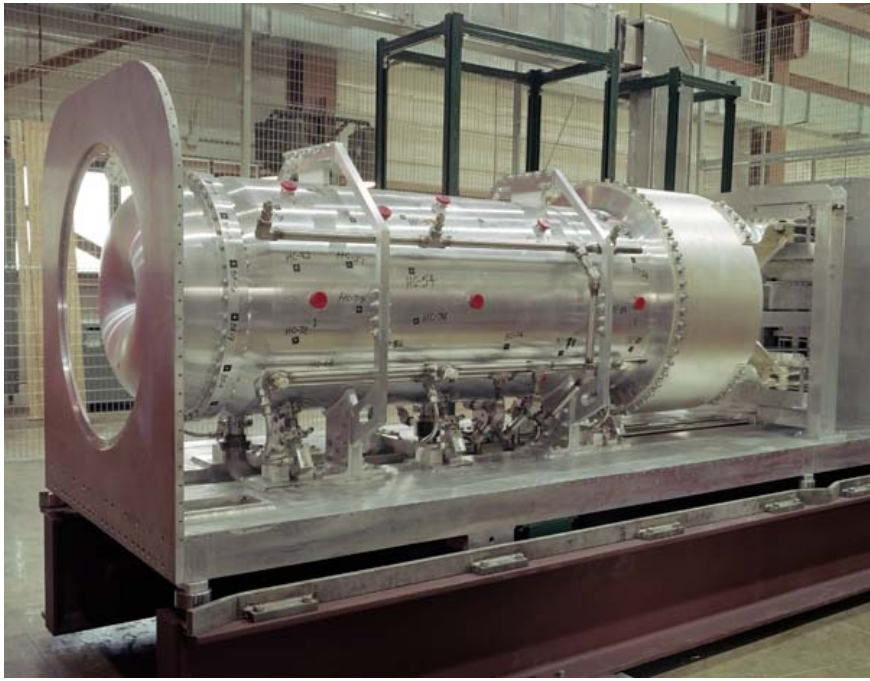
- Ran detector in supernova mode during shutdown, ~90% livetime.
- Supernova at 10kpc would produce 190 $\bar{\nu}$+p -> e^++n events (hep-ph/0205035).



- 20Hz signal on 10kHz background hard to trigger live, require external input or detailed analysis.

Spare Horn Testing

- Successful testing of spare horn at full current.
- Ran 2.4M pulses at 5Hz.
- Two spare Be targets delivered.
- Important as current horn has ~95M pulses.
- Completed beamline alignment and RAW system maintenance.



Detector Upgrades

- Front end DAQ computers replaced. Allows improved online monitoring.
- Crate 1 (128 channels) power supplies replaced, fixed intermittent tripping.
- Two channels died during previous run (15 total), taken offline.

Goals

- Publish oscillation results!!
- Ready to run in antineutrino mode, take as much data as possible (statistics limited). Currently have 0.2×10^{20} POT, anticipating $1\text{-}2 \times 10^{20}$ POT.
- Data used to measure antineutrino cross sections and cross checks for neutrino oscillation analysis.