MiniBooNE Report

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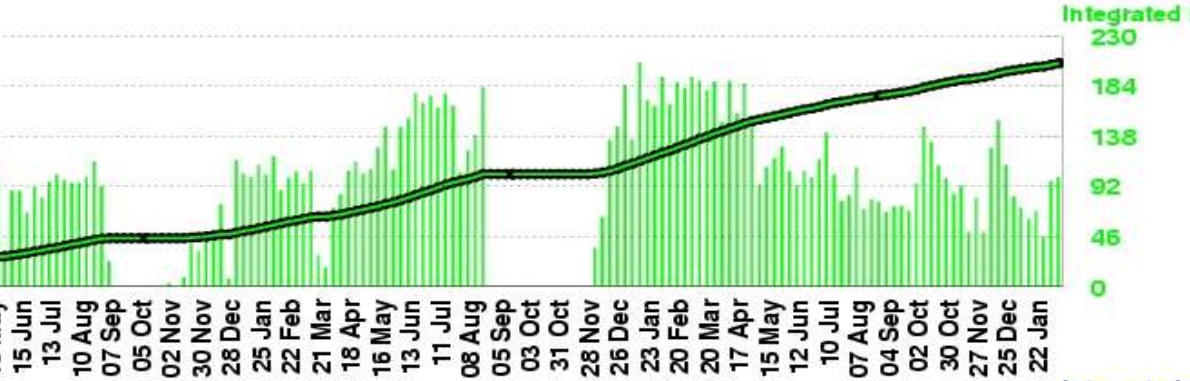
for the MiniBooNE collaboration

13 February 2006

Weekly Summary 06 Feb - 13 Feb: 5.1E18 POT, 91% Up.

- Jan 19: switched to anti-neutrino running (horn current at -175kA).
- Major down time:
  - 6 hrs: HV865 (noise) and H866 (meter) repairs (Feb 6).
  - 2 hrs: Booster kicker repairs (Feb 6).
  - 2 hr: MCR lost ACNET (Feb 9).
  - 4 hr: Linac repair (Feb 11).

06 Feb – 13 Feb

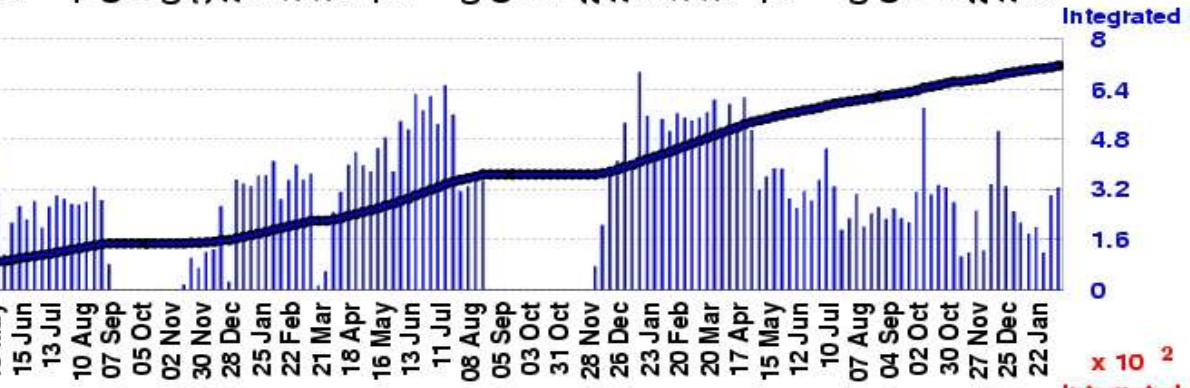


Number of Horn Pulses

To date: 173.30 million

Largest week: 2.82 million

Latest week: 1.37 million

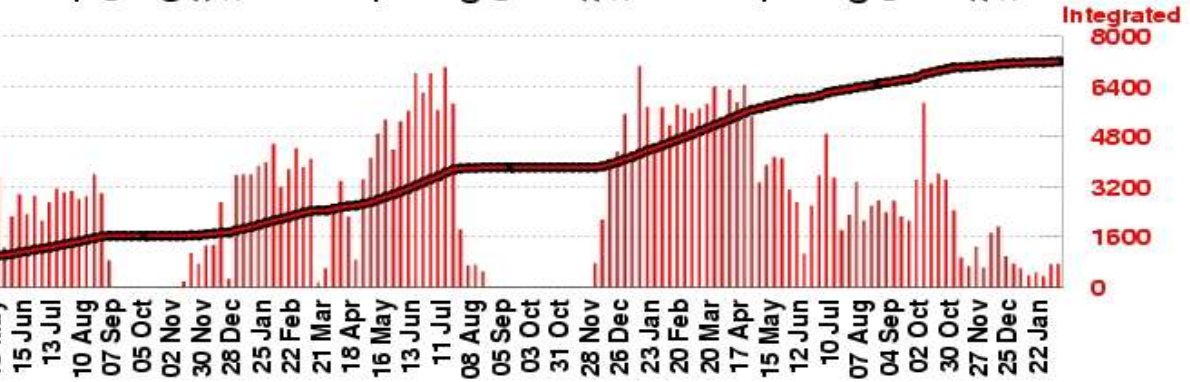


Number of Protons on Target

To date: 7.1469 E20

Largest week: 0.1084 E20

Latest week: 0.0507 E20



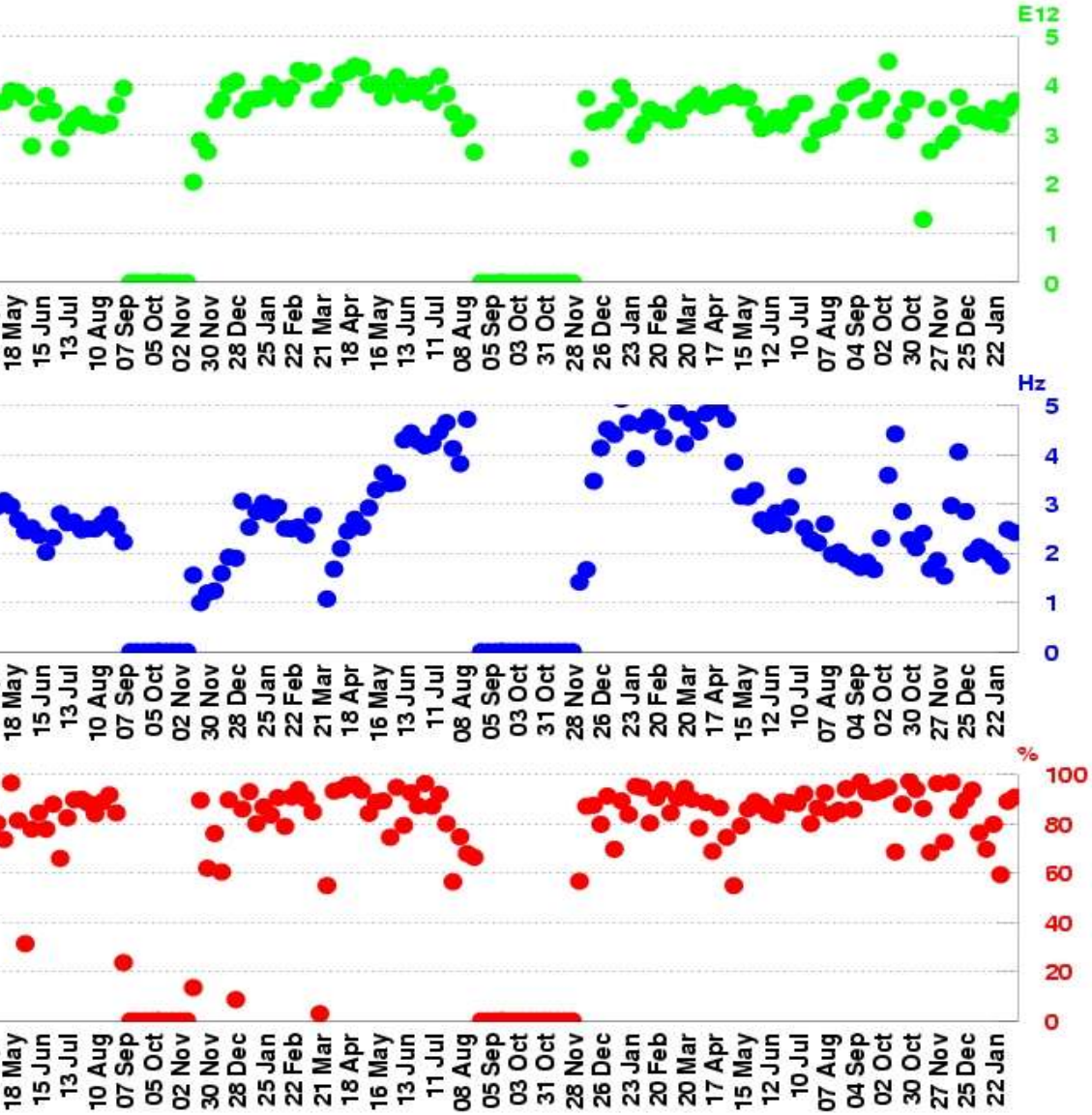
Number of Neutrino Events

To date: 719383

Largest week: 11447

Latest week: 1189

06 Feb – 13 Feb



POT per Horn Pulse

Largest week: 4.85 E12

Latest week: 3.69 E12

Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 2.41 Hz

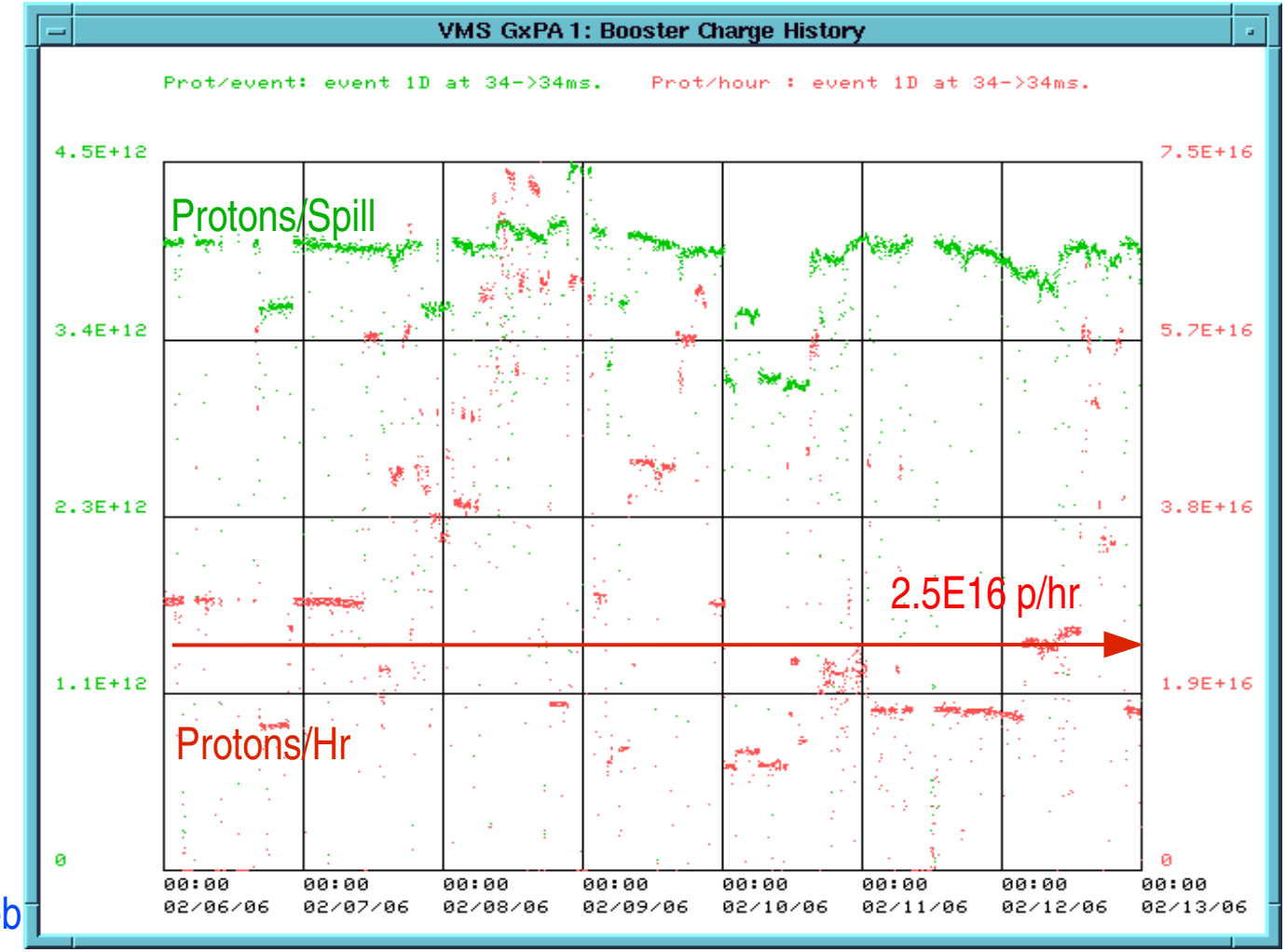
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 97.4 %

Latest week: 90.8 %

One Week Proton/Hr Summary



06 Feb

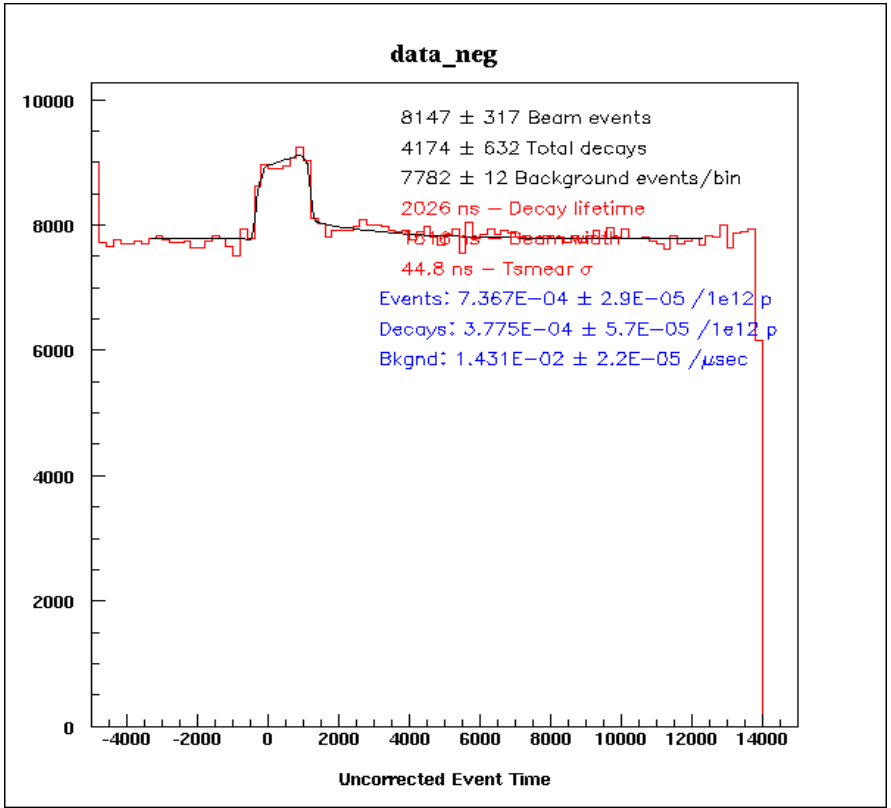
13 Feb

Anti-neutrino run mode.

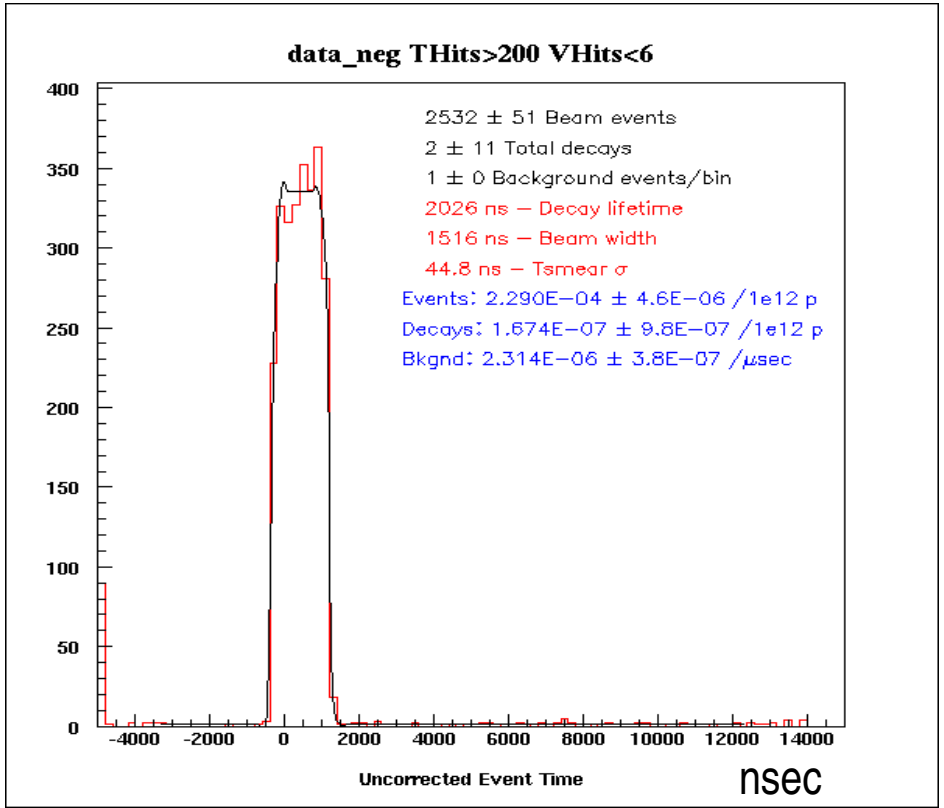
Summary, Plan of the Week

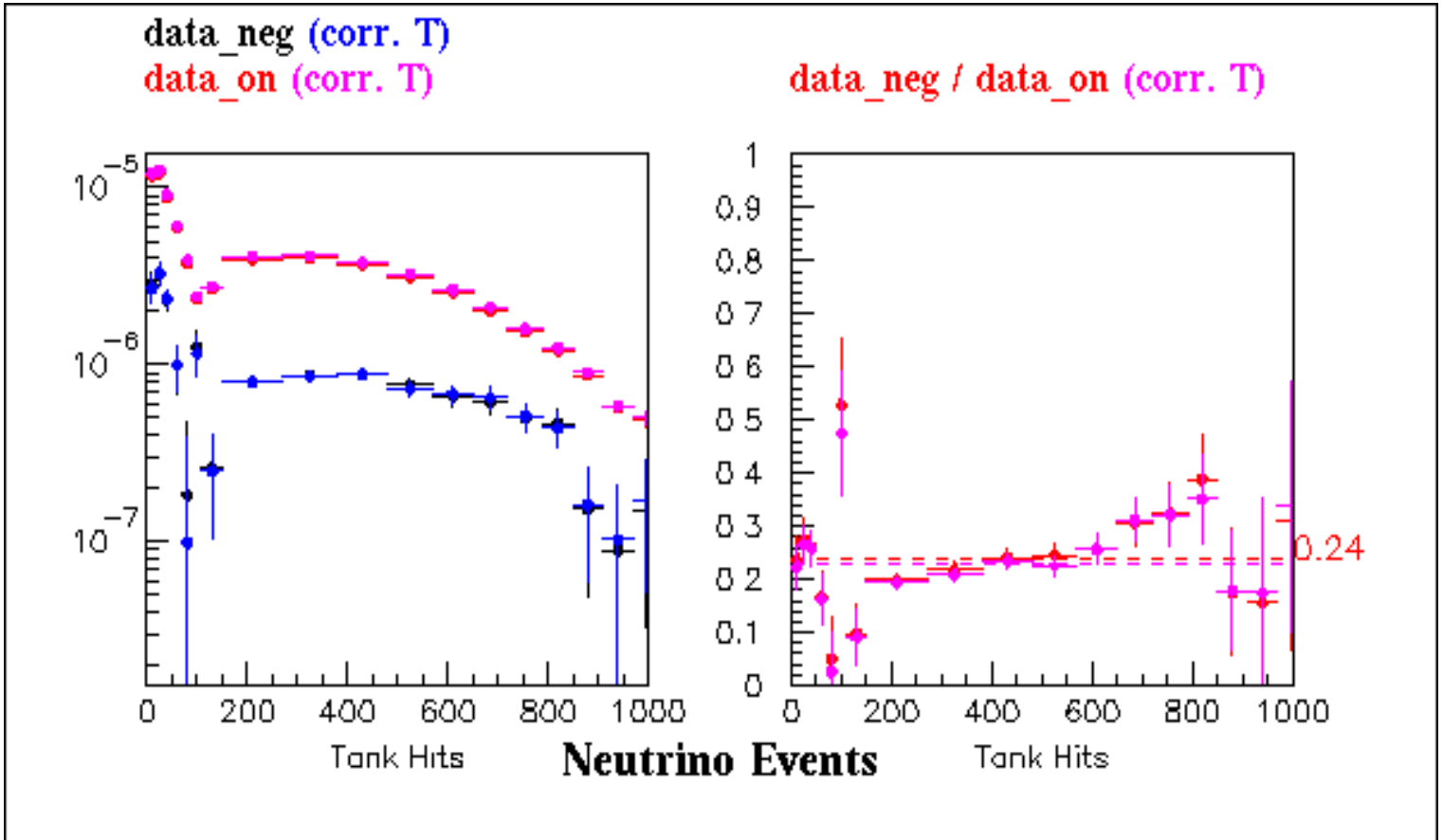
- Continue smooth running in anti-neutrino mode to the shutdown. To date have collected ~3200 events.

No Cuts



NHIT > 200, NVETO < 6



Anti-Neutrino event rates

- Expect anti-neutrino event rate to be about four times less than neutrino rate: x2 less flux and x2 less cross sections.