MiniBooNE Report

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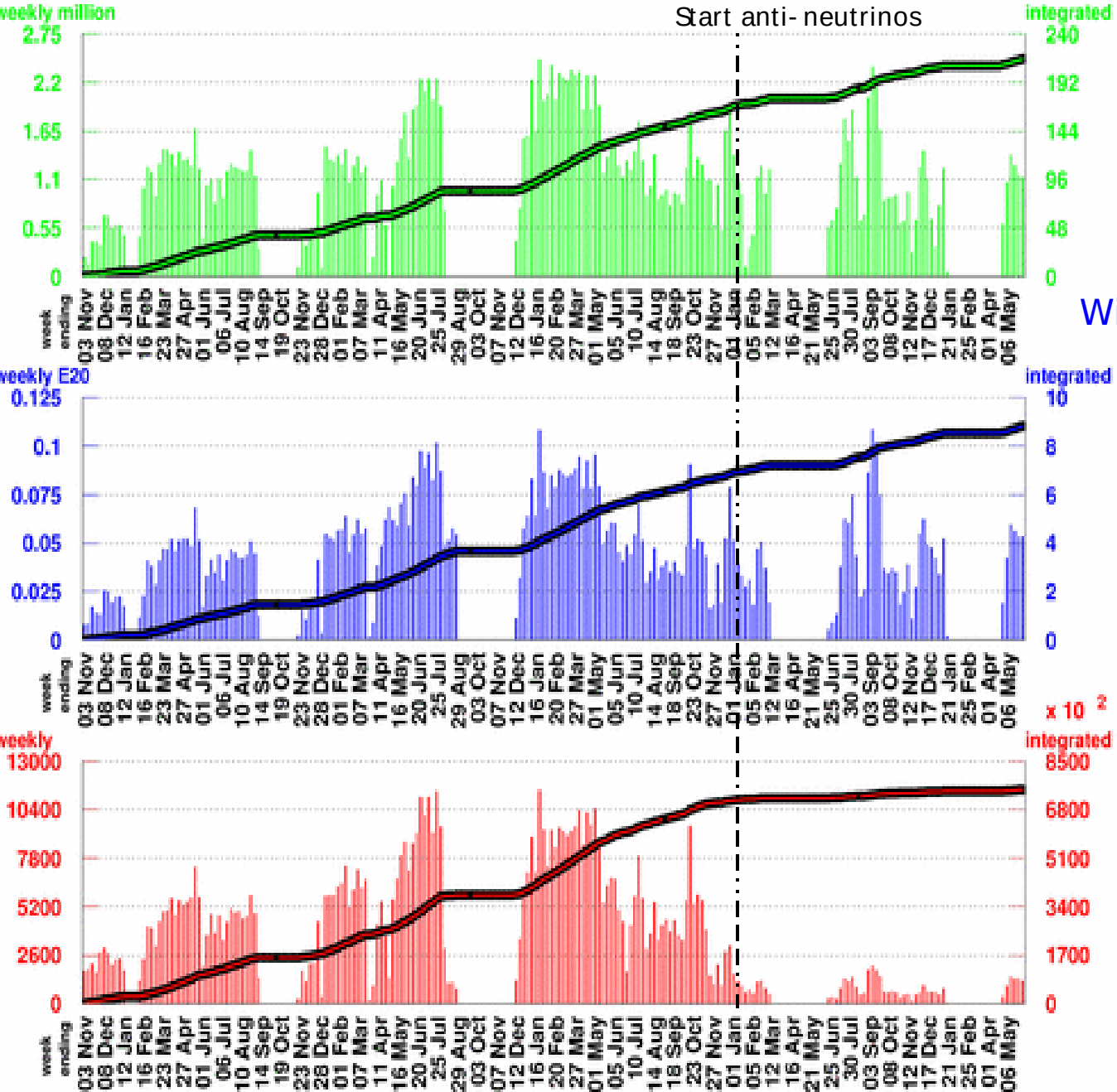
for the MiniBooNE collaboration

21 May 2007

Week Summary 14 May – 21 May 5.3E18 POT, 85% Uptime

- Booster delivering stable beam to MiniBooNE at ~4E16P/hr.
- Major Downtime:
  - 4 hrs, Linac Klystron repairs (May 14).
  - 4 hrs, Linac RF3 repairs (May 17).
  - 7 hrs, MI-12b sump pump repair (May 19).

14 May – 21 May



Number of Horn Pulses

To date: 215.21 million

Largest week: 2.46 million

Latest week: 1.13 million

With Beam Information Cuts

Number of Protons on Target

To date: 8.82 E20

Largest week: 0.1085 E20

Latest week: 0.0532 E20

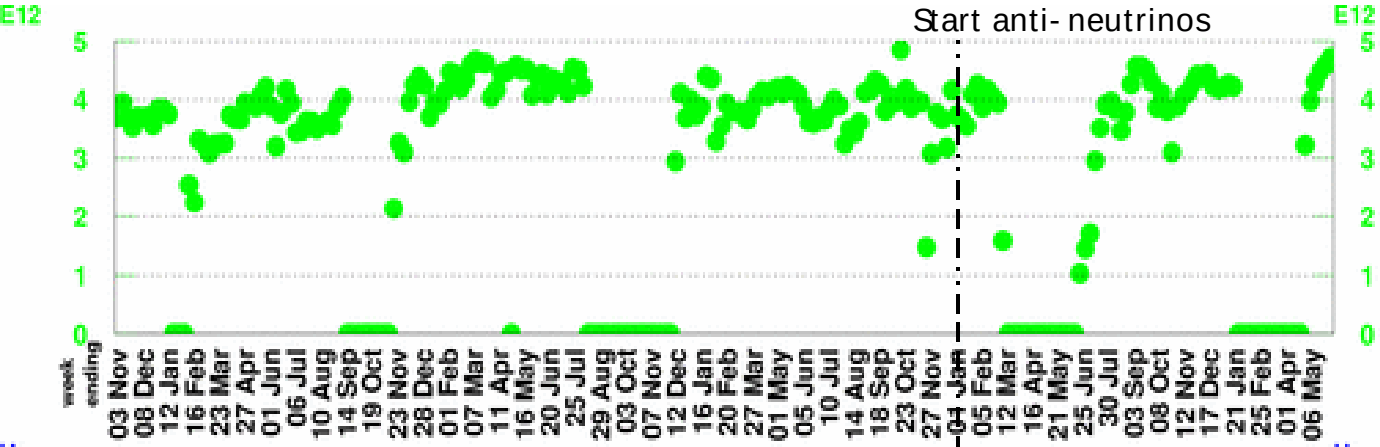
Number of Neutrino Events

To date: 750928

Largest week: 11447

Latest week: 1219

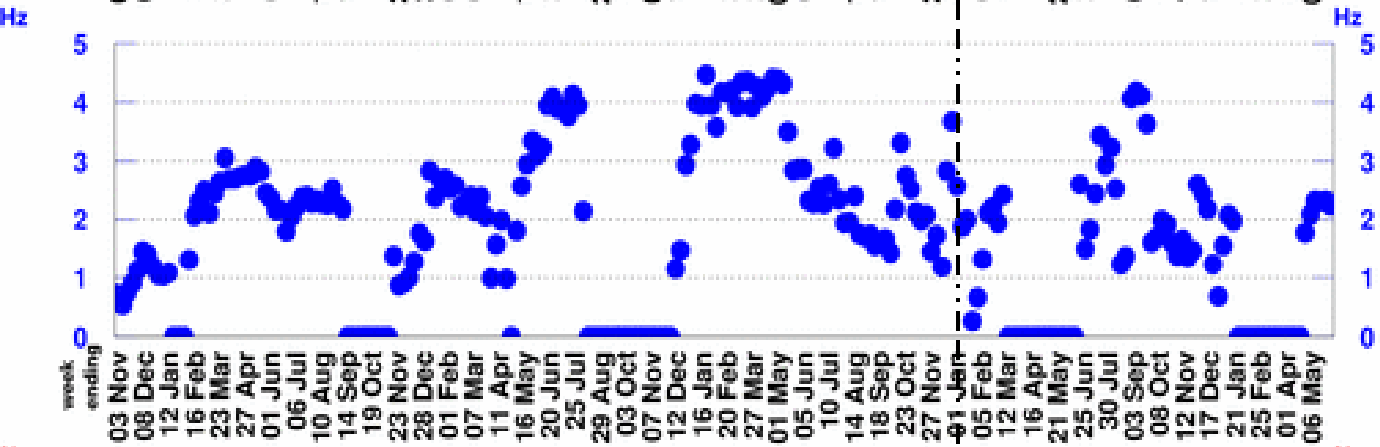
14 May – 21 May



POT per Horn Pulse

Largest week: 4.85 E12

Latest week: 4.71 E12

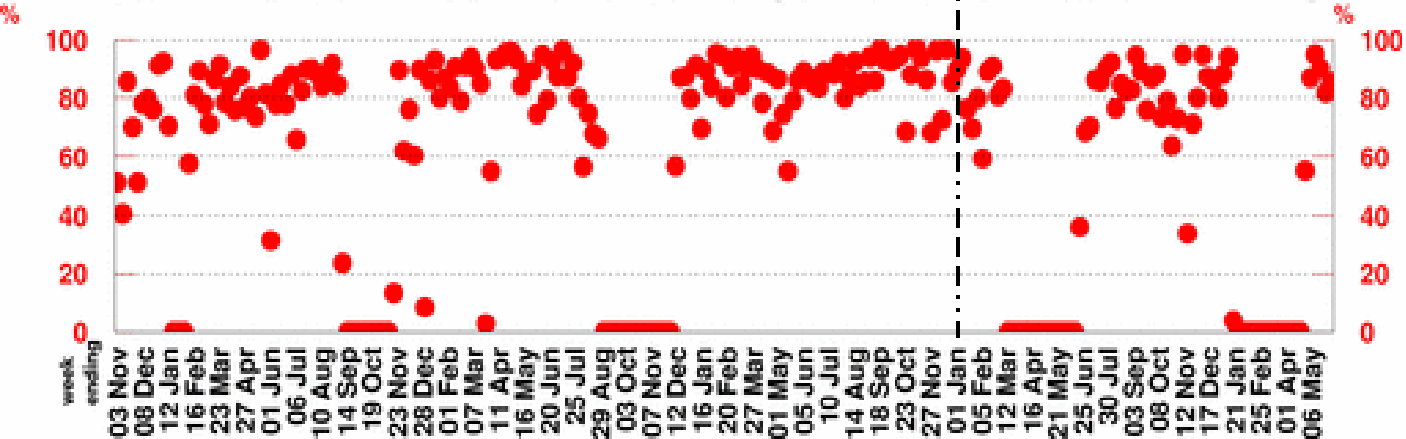


Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 2.24 Hz



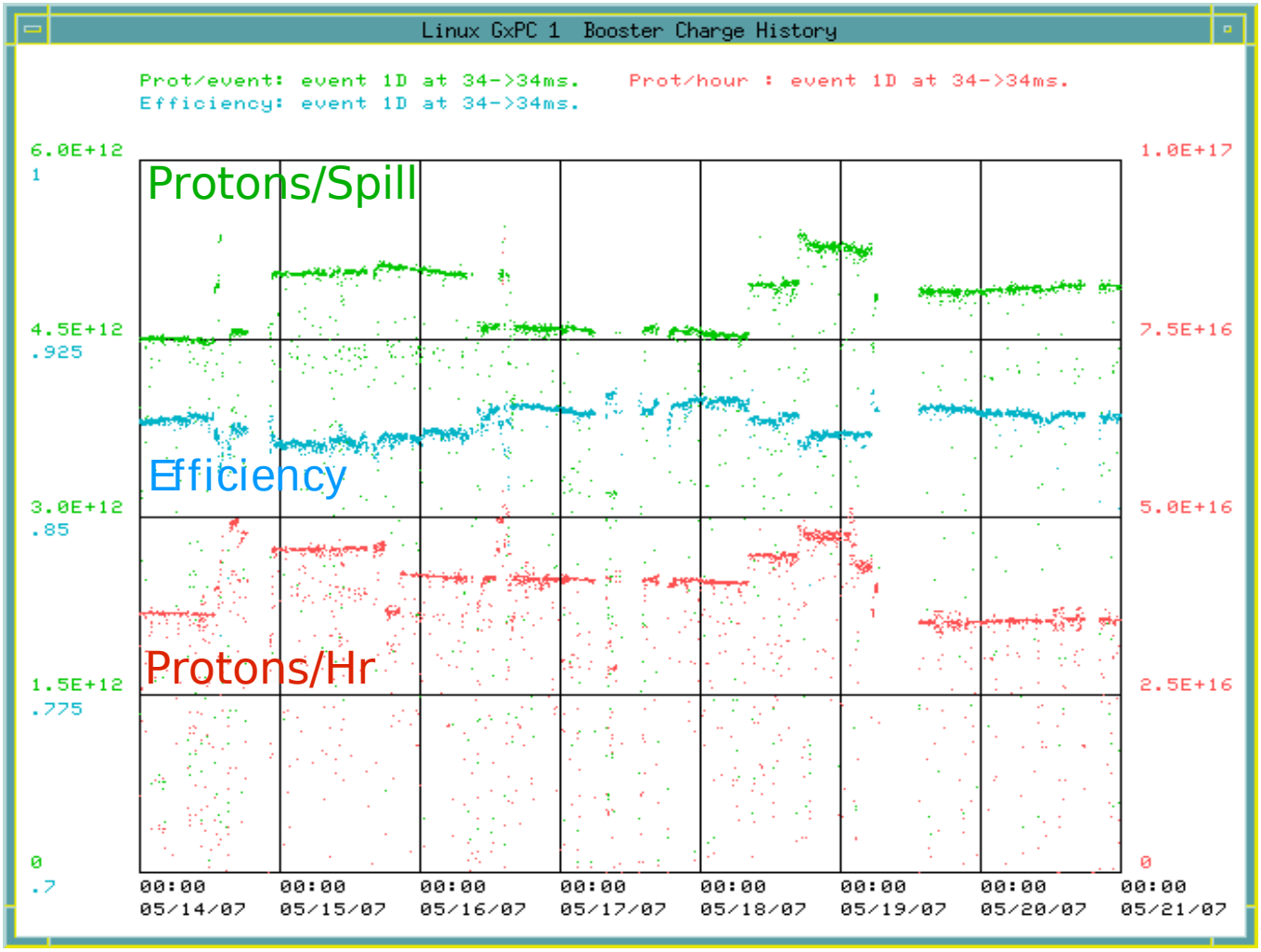
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 97.4 %

Latest week: 85.3 %

One Week MB Proton/Hr Summary

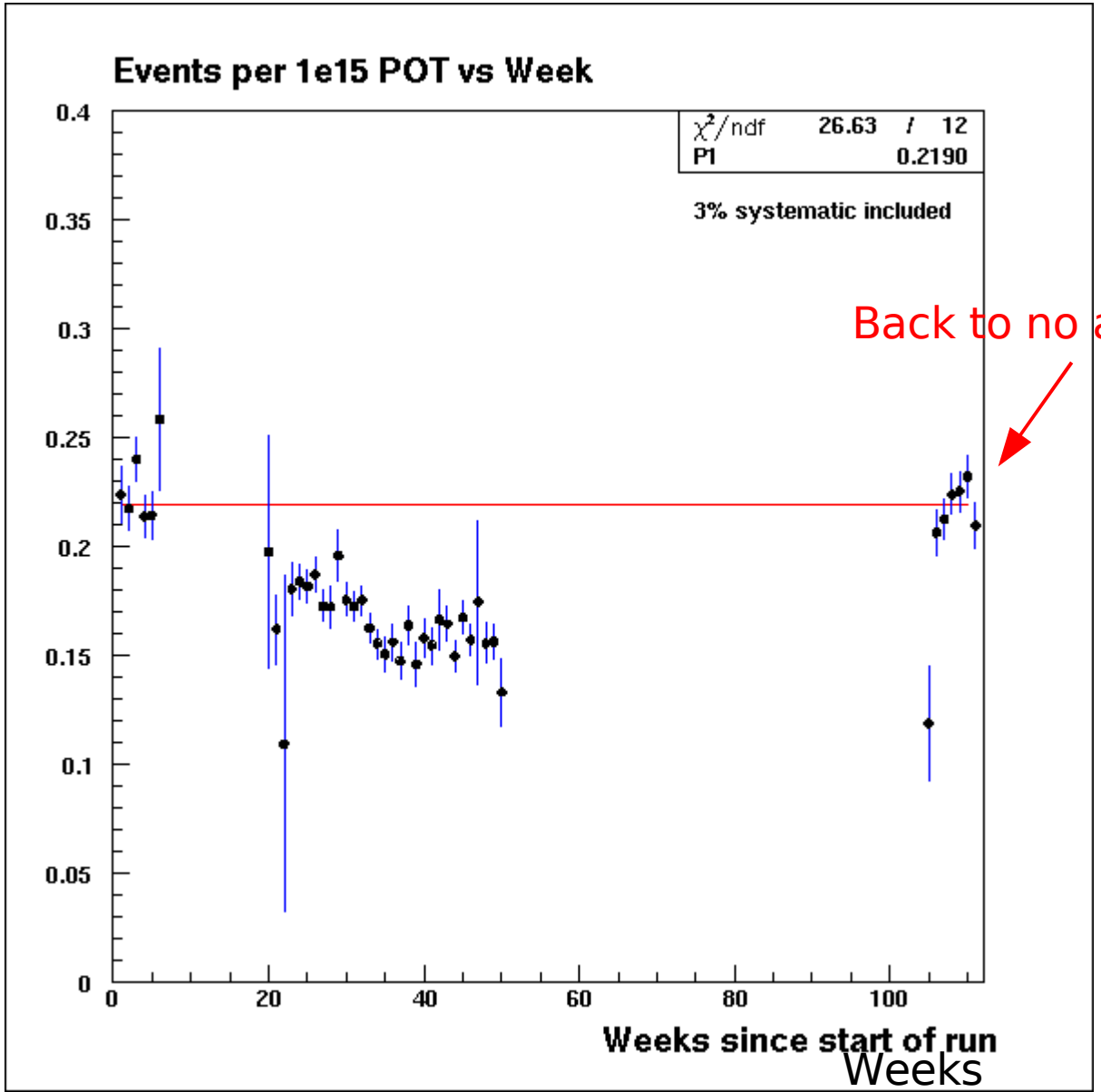


14 May

21 May

Currently running steady at 11 turns and 89% Eff.

Event Rate in Antineutrino Mode After 25m Absorber Repair



Back to no absorber rates

This Week's Plan

- Continue running, take advantage of good Booster output.
- Two hour shutdown Wednesday for detector HVAC maintenance.
- Plan is to collect ~0.6E20 POT in antineutrino mode and no absorber. Totals to date:
  - 0.2E20 POT no absorber.
  - 0.7E20 POT absorber #10 down.
  - 0.6E20 POT absorber #10 and #7 down.
  - 0.25E20 POT since startup 6 weeks ago (no absorber).