MiniBooNE Report

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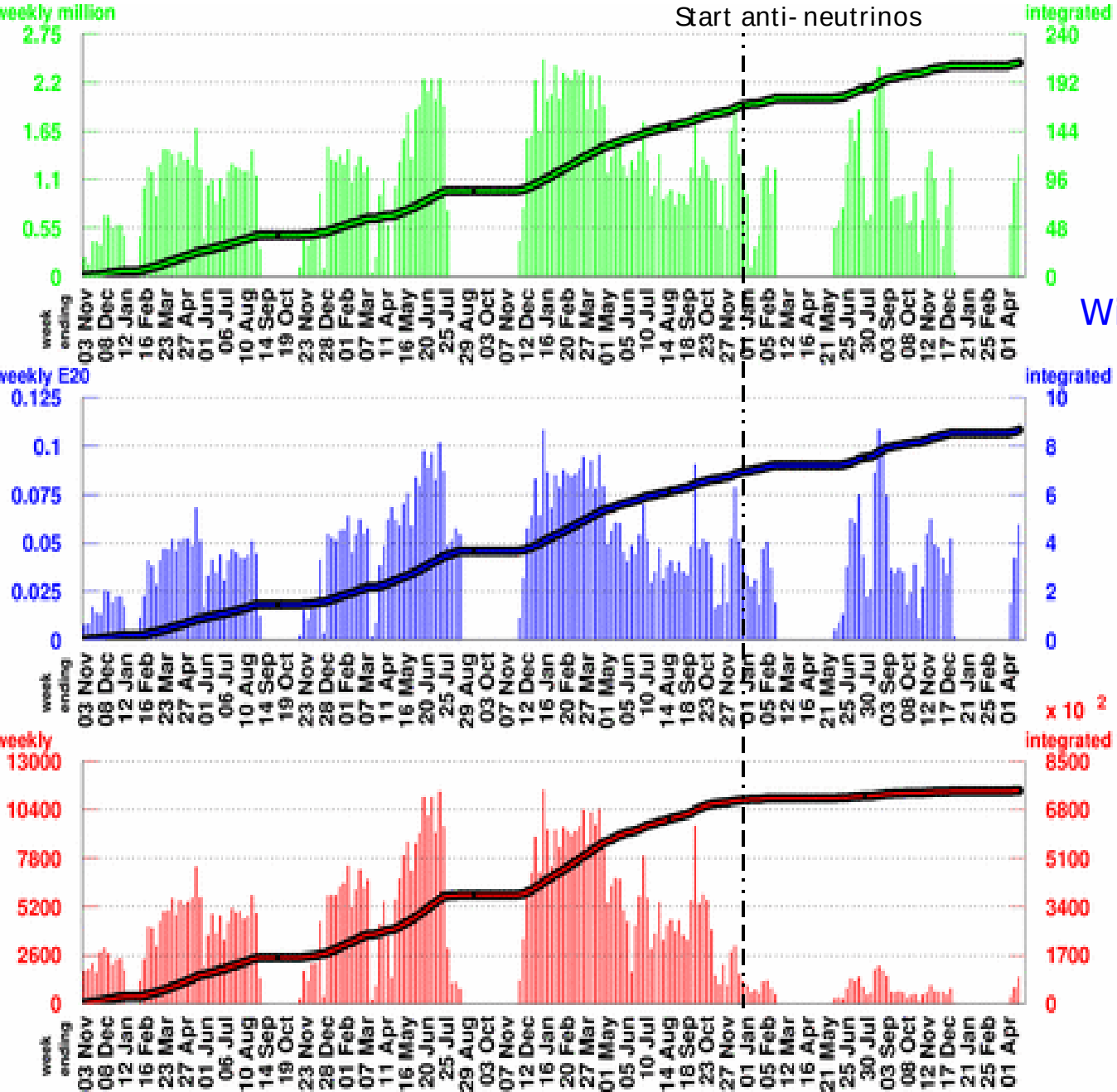
for the MiniBooNE collaboration

30 April 2006

Week Summary 23 April – 30 April 5.9E18 POT, 95% Uptime

- Back online after successful repair of 25m absorber region.
  - Operations begin Tuesday April 10.
- Booster steadily delivering improved beam intensity, up to 10 turns at 89% Eff.
- Major Downtime:
  - NONE!

23 April – 30 April



Number of Horn Pulses

To date: 211.67 million

Largest week: 2.46 million

Latest week: 1.38 million

With Beam Information Cuts

Number of Protons on Target

To date: 8.6573 E20

Largest week: 0.1085 E20

Latest week: 0.0592 E20

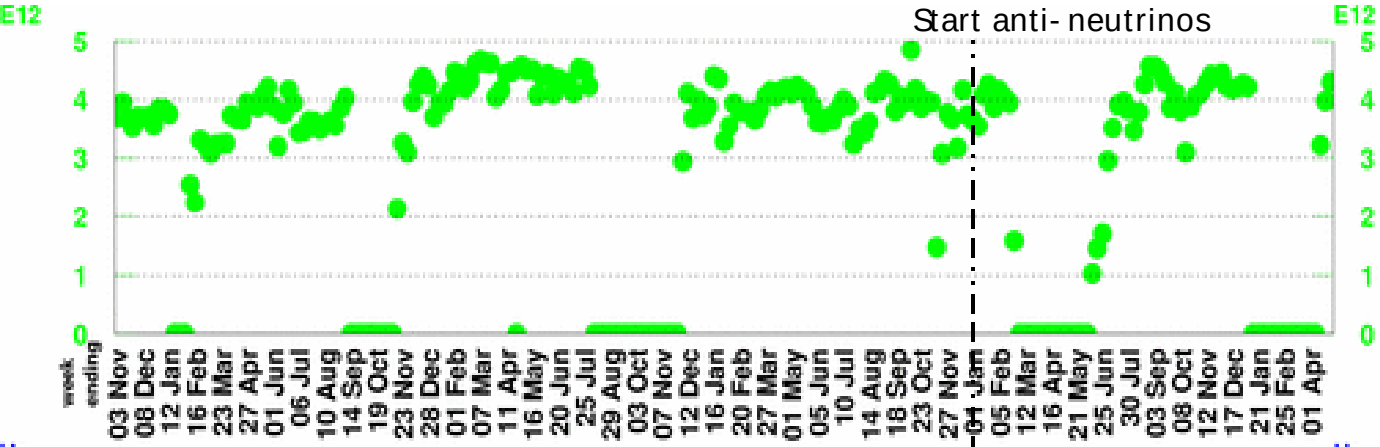
Number of Neutrino Events

To date: 746995

Largest week: 11447

Latest week: 1424

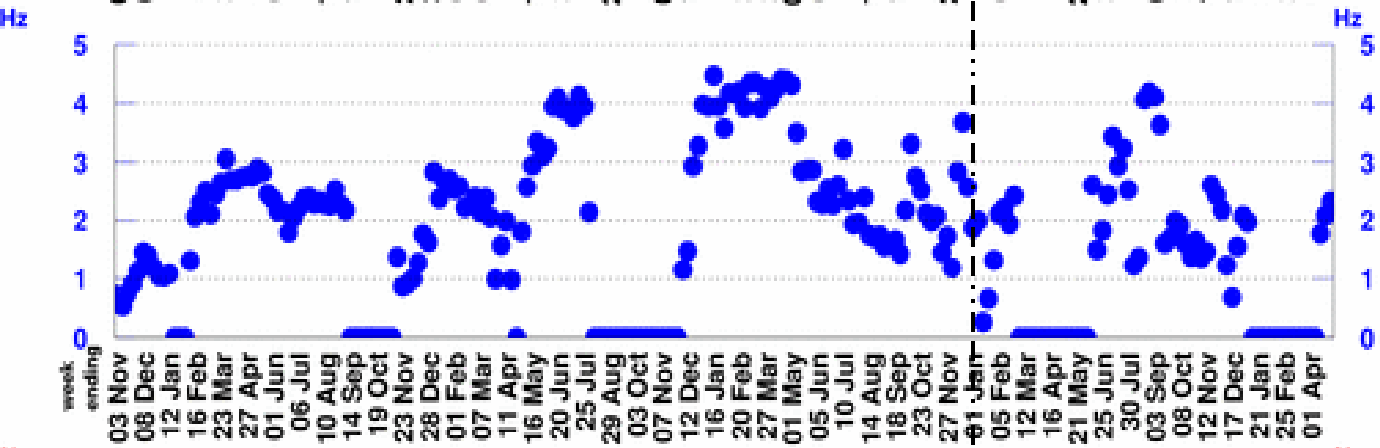
23 April – 30 April



POT per Horn Pulse

Largest week: 4.85 E12

Latest week: 4.3 E12

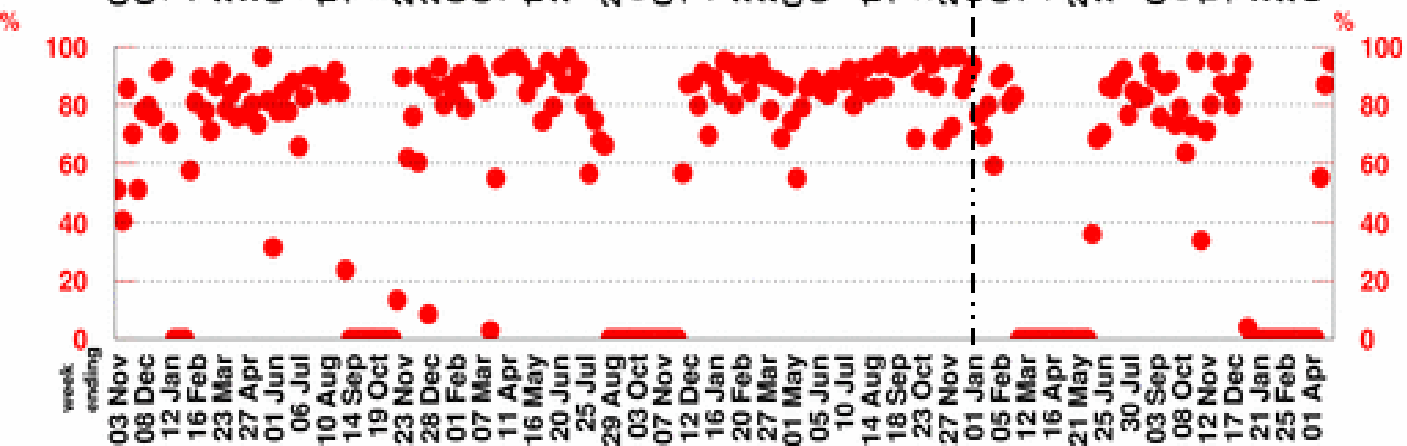


Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 2.32 Hz



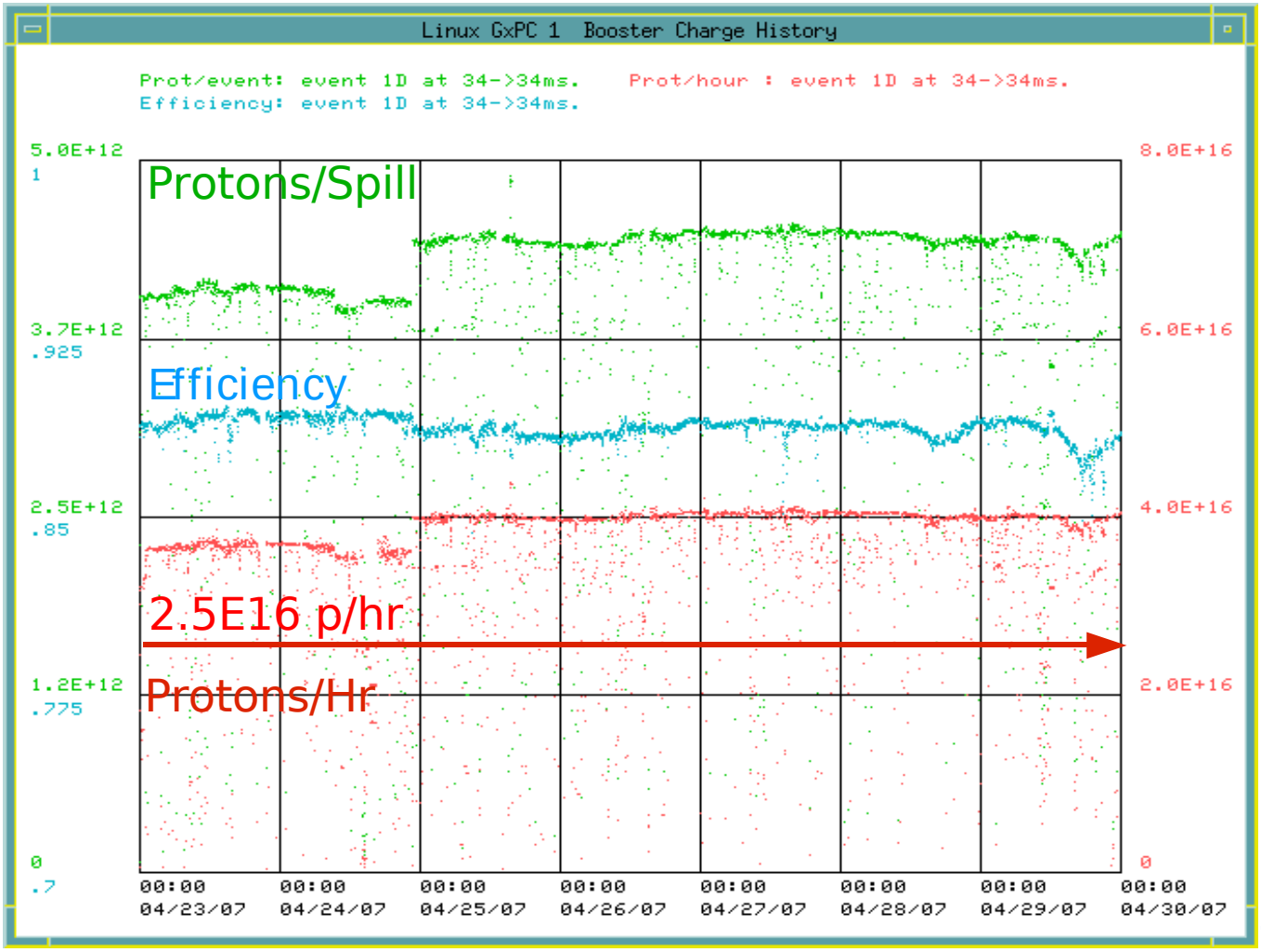
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 97.4 %

Latest week: 95.2 %

One Week MB Proton/Hr Summary

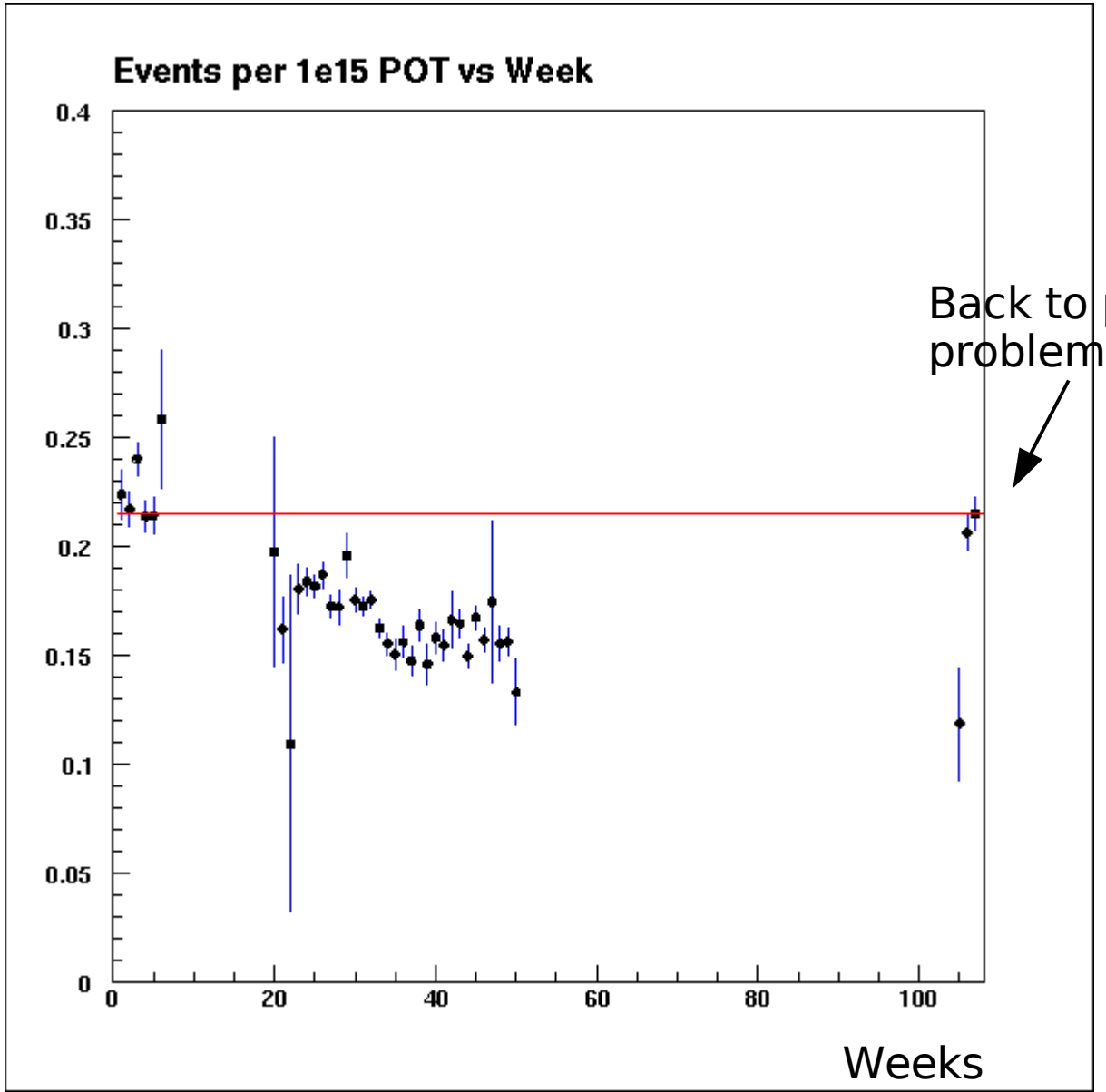


23 April

30 April

Currently running steady at 10 turns and 89% Eff.

Event Rate in Antineutrino Mode After 25m Absorber Repair



Back to pre-absorber problem level

This Week's Plan

- Continue running, take advantage of good Booster output.
- Plan is to collect 0.6-0.9E20 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.
  - 0.1E20 POT since startup (no absorber).