MiniBooNE Report

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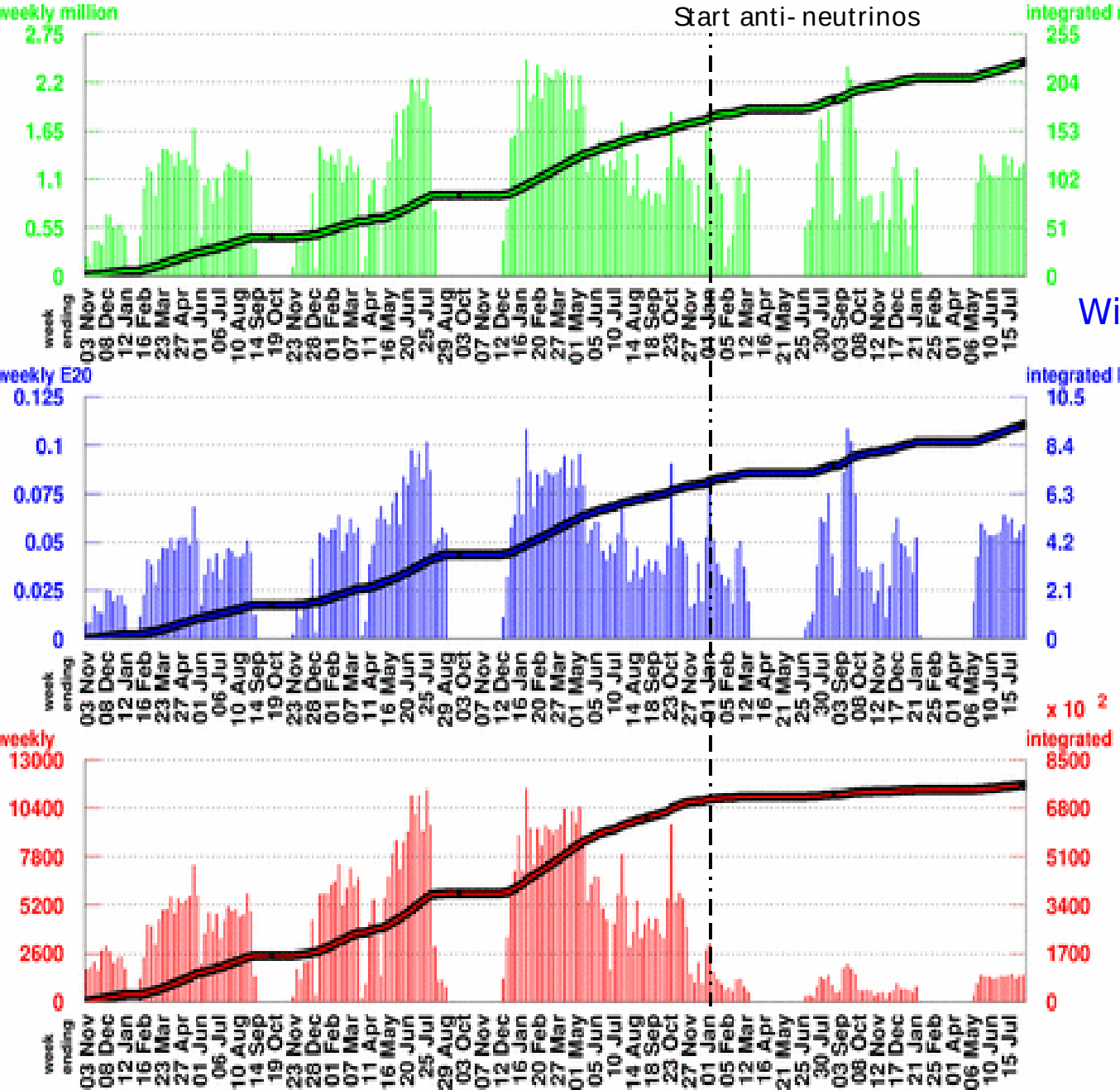
for the MiniBooNE collaboration

16 July 2007

Week Summary 09 July – 16 July 5.9E18 POT, 85% Uptime

- Booster delivering stable beam to MiniBooNE at ~4.4E16p/hr.
- Major Downtime:
  - 13.5 hrs, scheduled Booster work (July 11).
  - 2 hrs: Linac RF repair (July 15).

09 July – 16 July



Number of Horn Pulses

To date: 225.08 million

Largest week: 2.46 million

Latest week: 1.28 million

With Beam Information Cuts

Number of Protons on Target

To date: 9.2807 E20

Largest week: 0.1085 E20

Latest week: 0.0588 E20

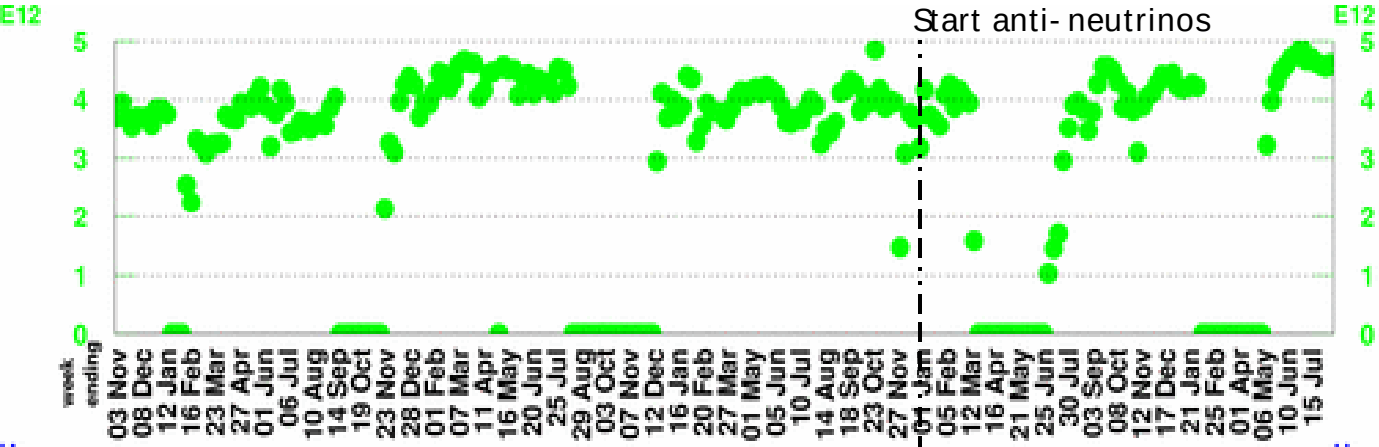
Number of Neutrino Events

To date: 761952

Largest week: 11447

Latest week: 1398

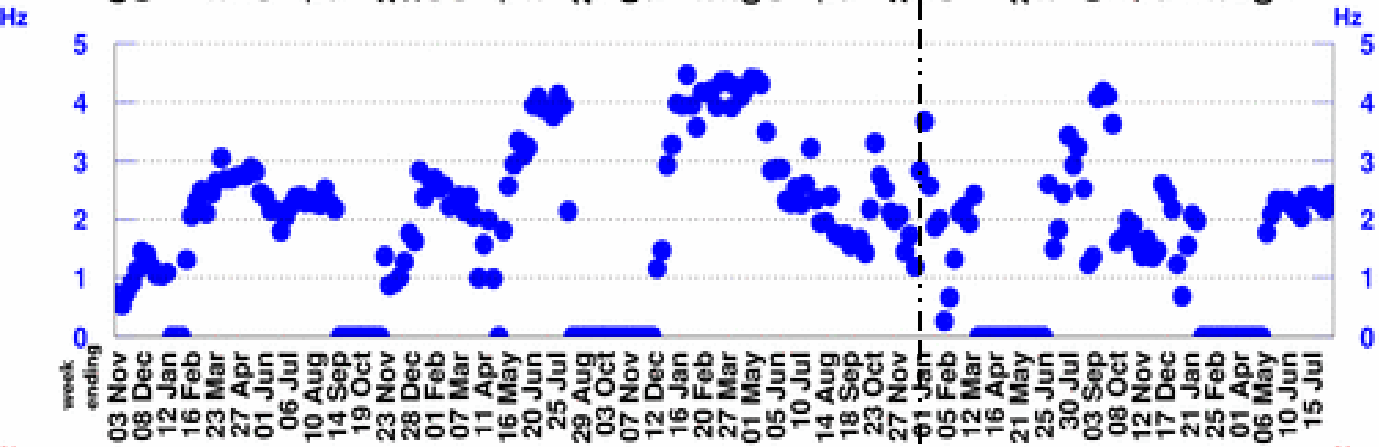
09 July – 16 July



POT per Horn Pulse

Largest week: 4.89 E12

Latest week: 4.61 E12

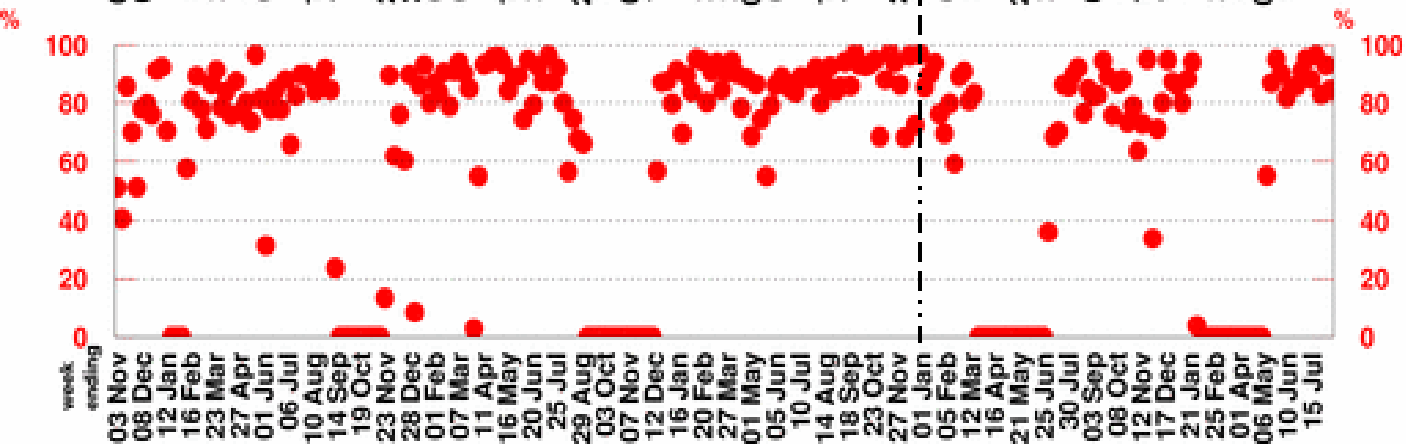


Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 2.41 Hz



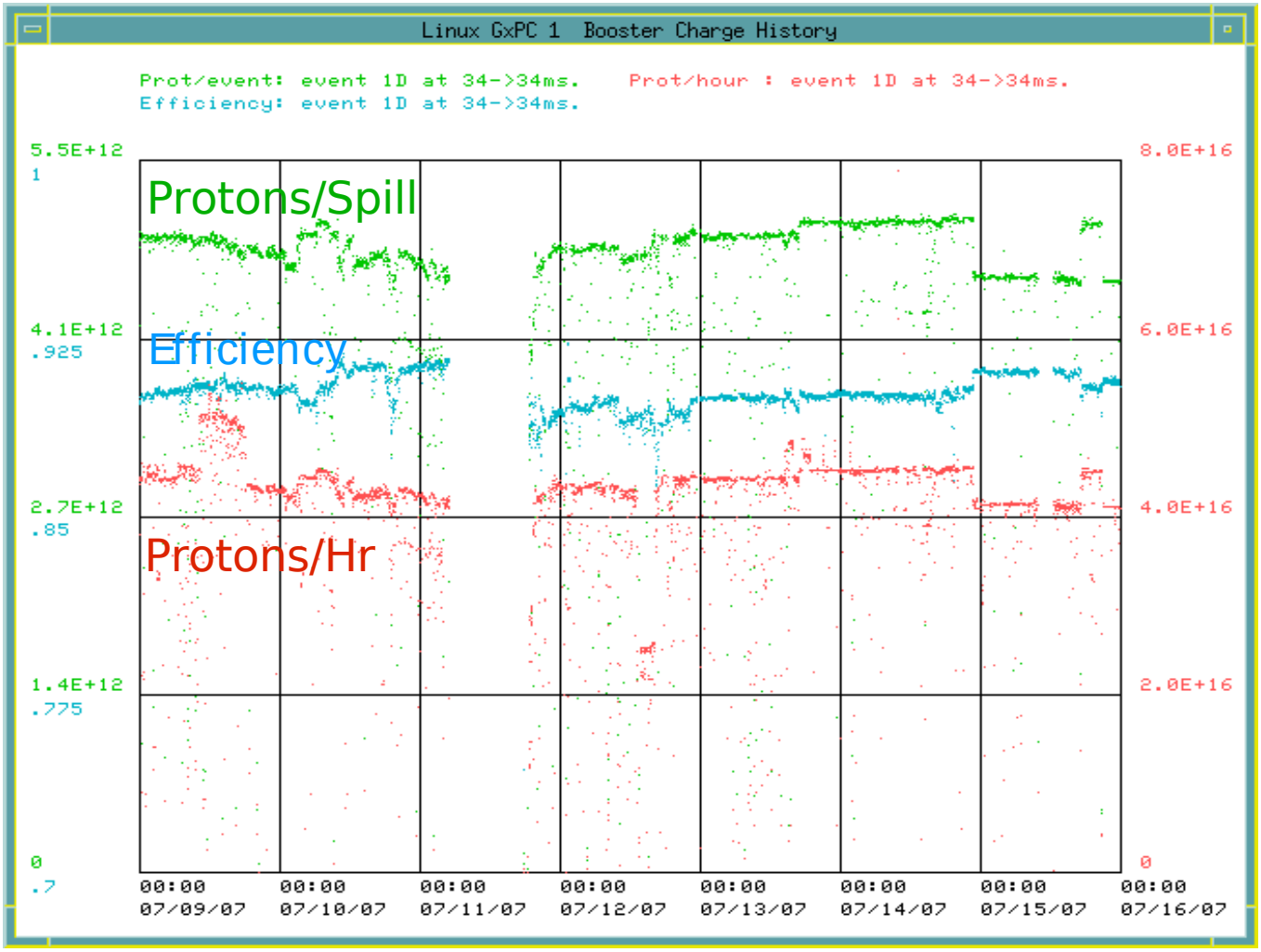
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 97.4 %

Latest week: 84.6 %

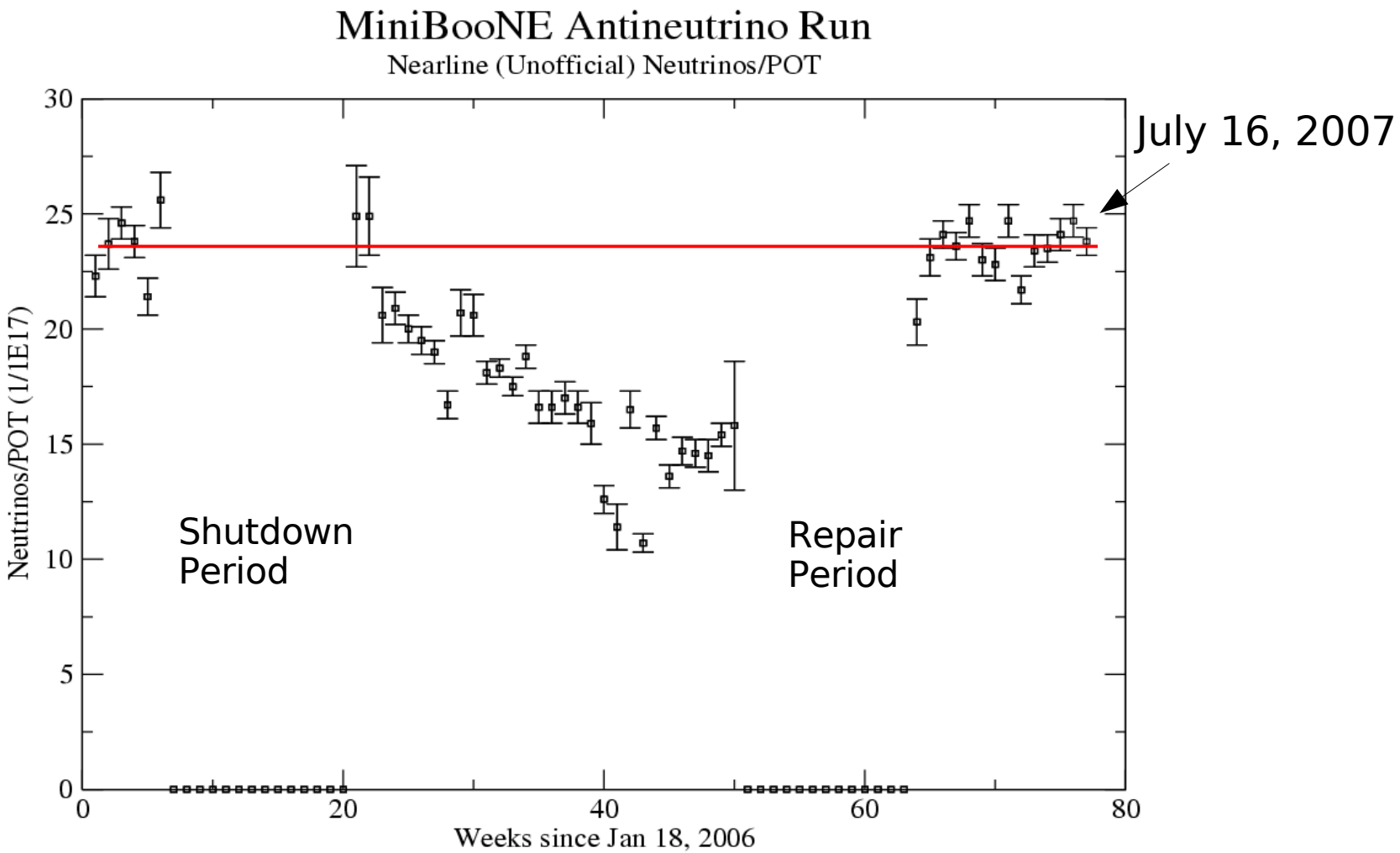
One Week MB Proton/Hr Summary



09 July

16 July

Ran stable at 11 turns and Eff ~90%



25m Absorber Repairs appear to still be working!

This Week's Plan

- Continue running, take advantage of good Booster output.
  - No plans for special runs.
- Antineutrino mode POT totals:
  - 0.2E20 POT no absorber.
  - 0.7E20 POT absorber #10 down.
  - 0.6E20 POT absorber #10 and #7 down.
  - 0.74E20 POT since absorber repair (no absorber).
- Have collected a total of 2.24E20 POT (1.92E20 de-rated for absorber problem).
  - Goal is to collect ~0.1E20POT more for a total of 2.0E20 POT after de-rating!
  - 3 weeks remaining @ 5E18 POT/wk, should making it!