MiniBooNE Report

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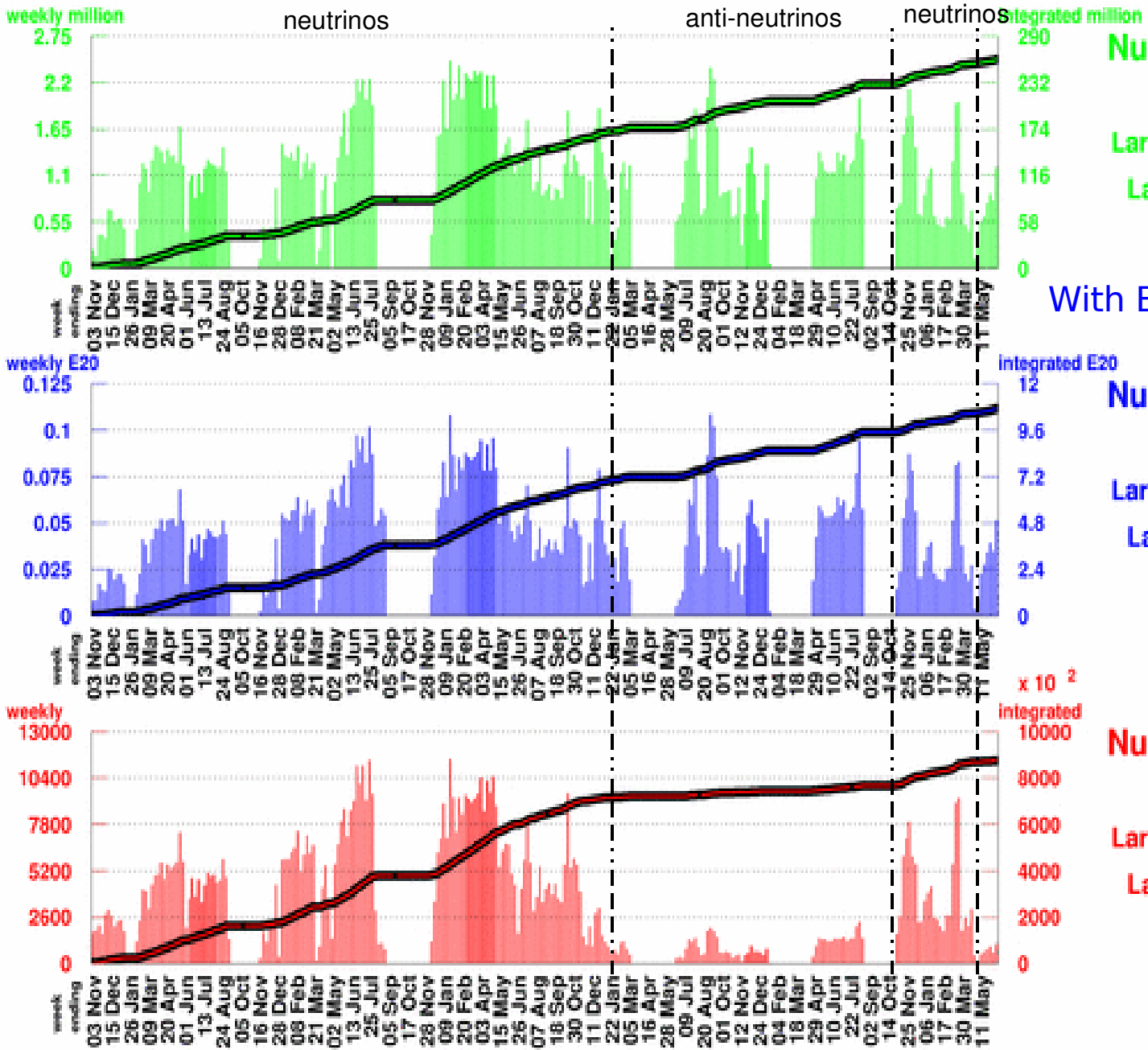
for the MiniBooNE collaboration

02 June 2008

Week Summary 19 May – 26 May 3.5E18 POT, 88% Uptime
Week Summary 26 May – 02 June 5.1E18 POT, 96% Uptime

- Continued improved antineutrino running at 10 turns and higher rep rates ~1.5 Hz => ~2.2E16 p/hr.
  - Up to ~3E16 p/hr when MTest is running.
  - NuMI off for a day ~6.5E16 p/hr.
- Excellent uptime!
- Major Downtime:
  - 14 hrs, complex wide maintenance shutdown, MB target filter change (May 22).

19 May – 02 June



Number of Horn Pulses

To date: 260.92 million

Largest week: 2.46 million

Latest week: 1.19 million

With Beam Information Cuts

Number of Protons on Target

To date10.7092 E20

Largest week: 0.1085 E20

Latest week: 0.0514 E20

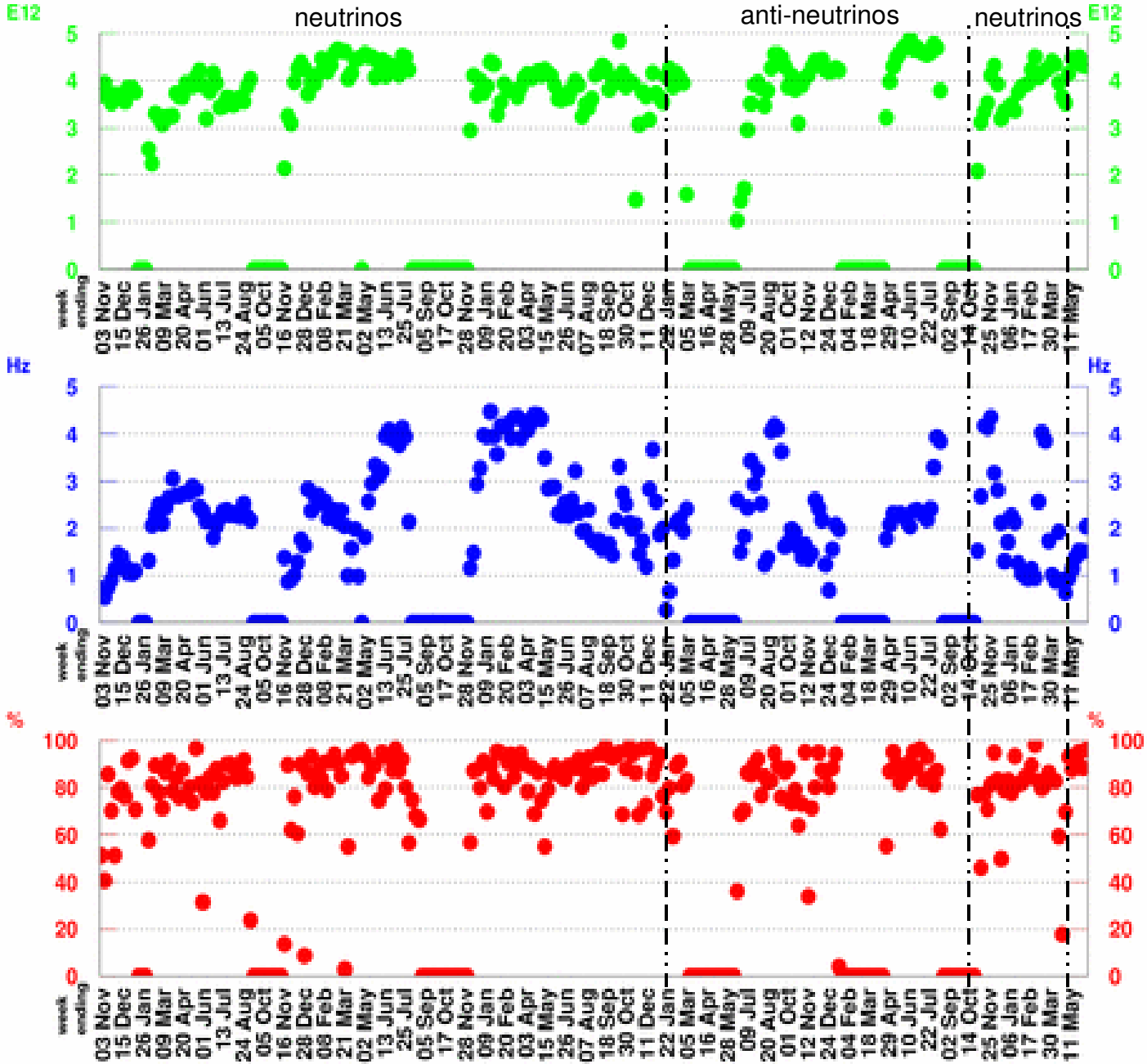
Number of Neutrino Events

To date:873918

Largest week: 11447

Latest week: 1091

19 May – 02 June



POT per Horn Pulse

Largest week: 4.89 E12

Latest week: 4.31 E12

Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 2.04 Hz

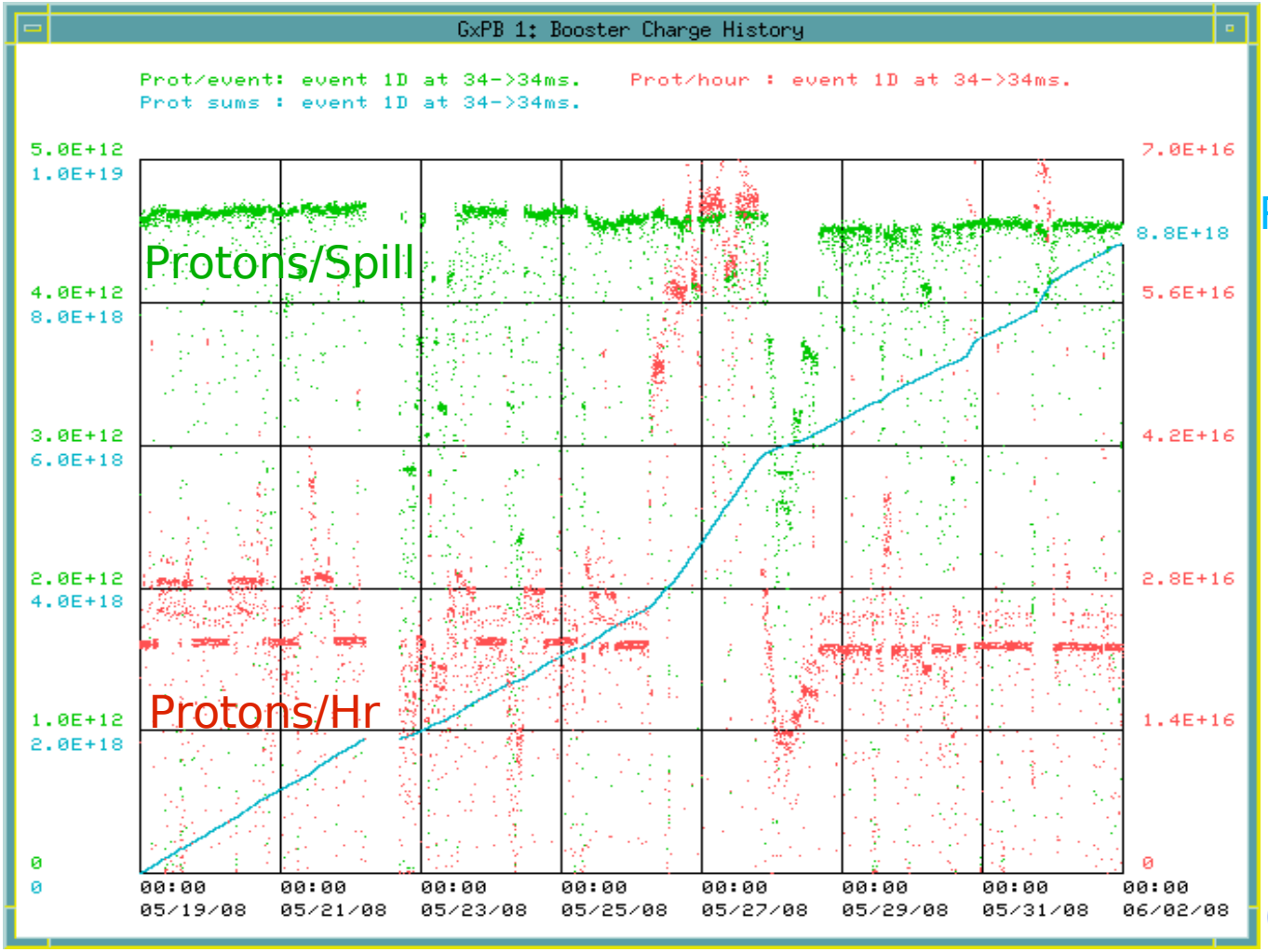
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 98.1 %

Latest week: 96 %

One Week MB Proton/Hr Summary



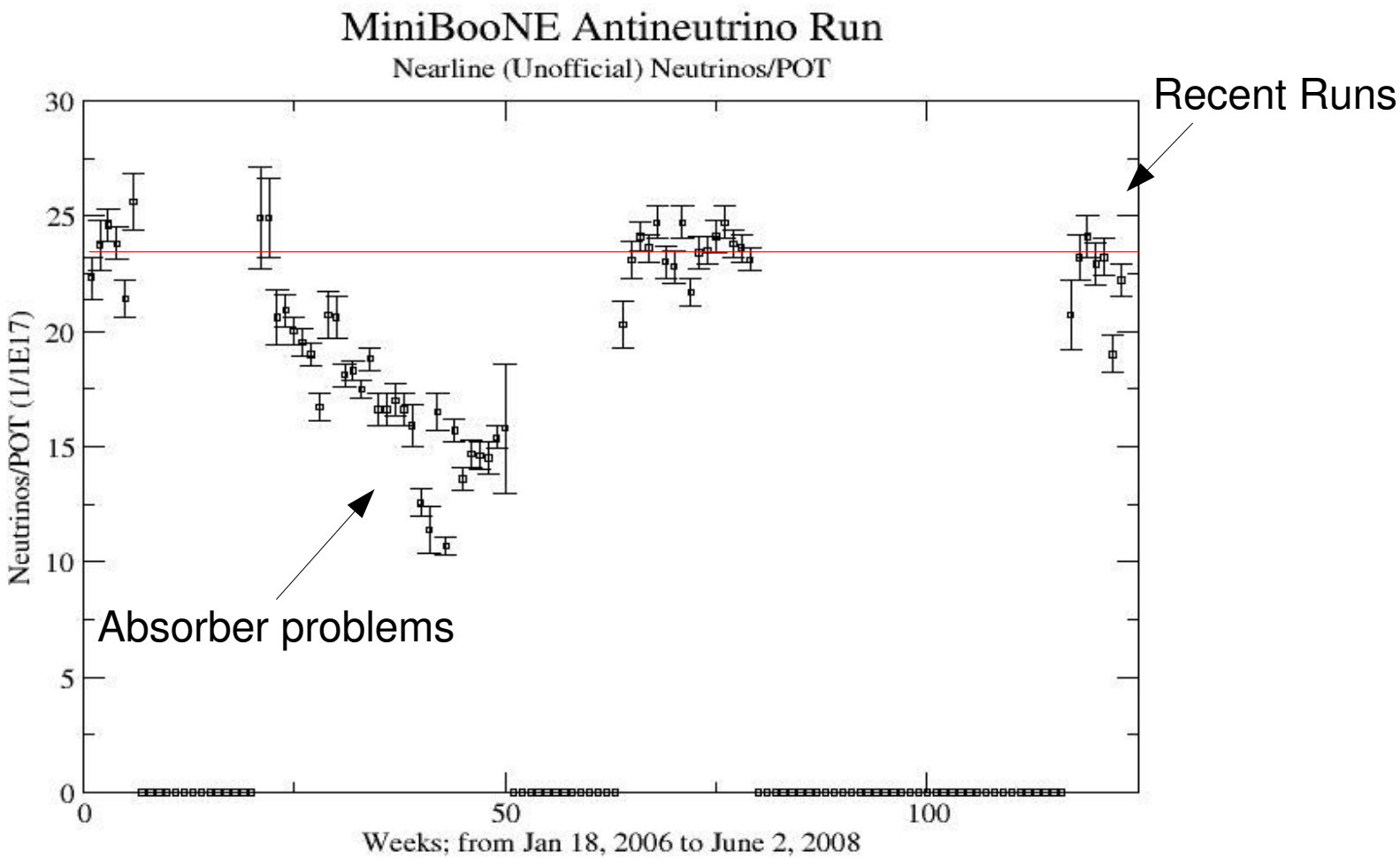
POT/week

19 May

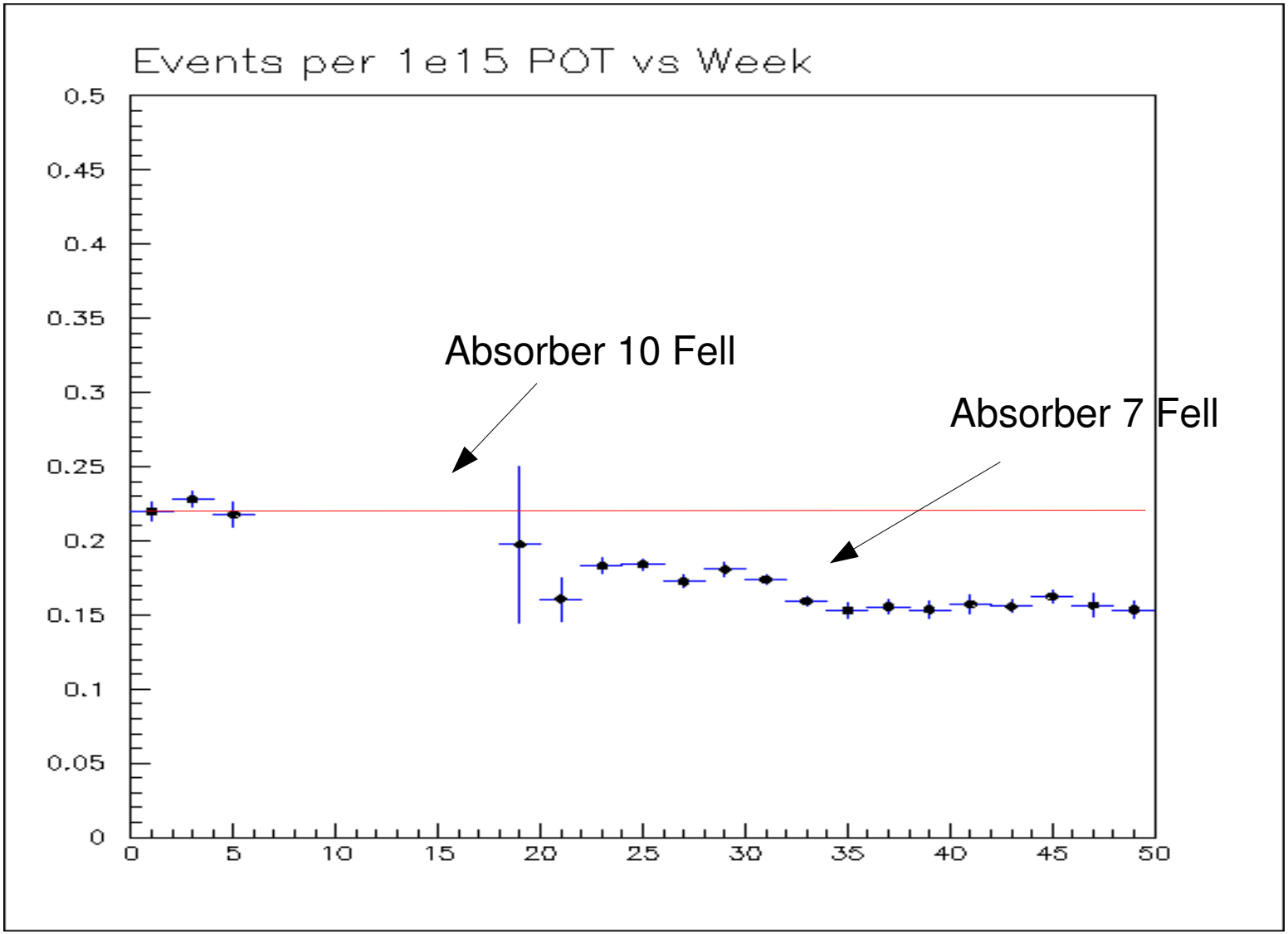
02 June

Tuned up to 10 turns, ~1.5Hz, ~2.2E16 p/hr, stable running!

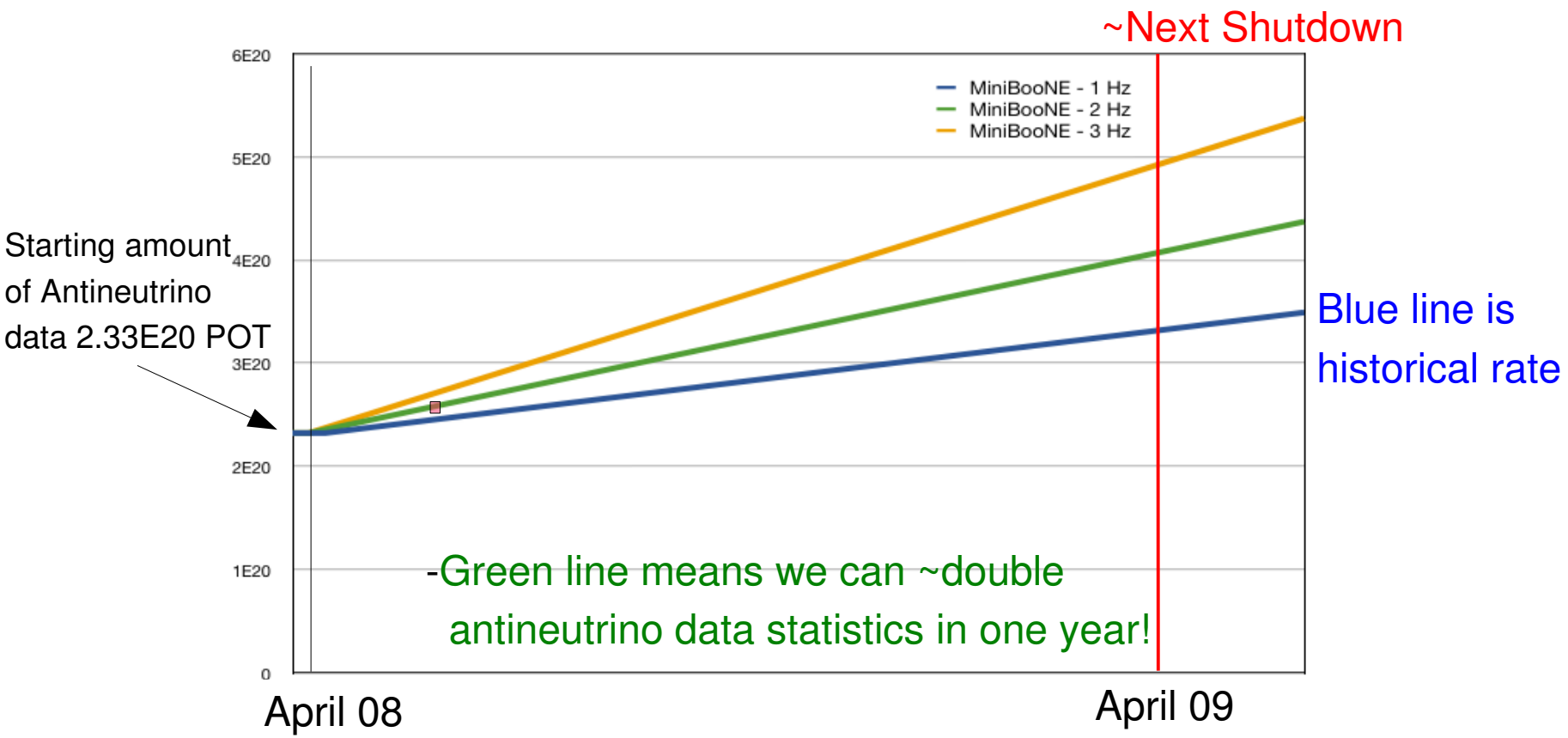
AntiNeutrino/POT (Unofficial)



AntiNeutrino/POT (Official)



Collected 0.22 (2.55) E20 POT in current (total) Anti-neutrino Run



This Week's Plan

- Continue stable running.