MiniBooNE Report

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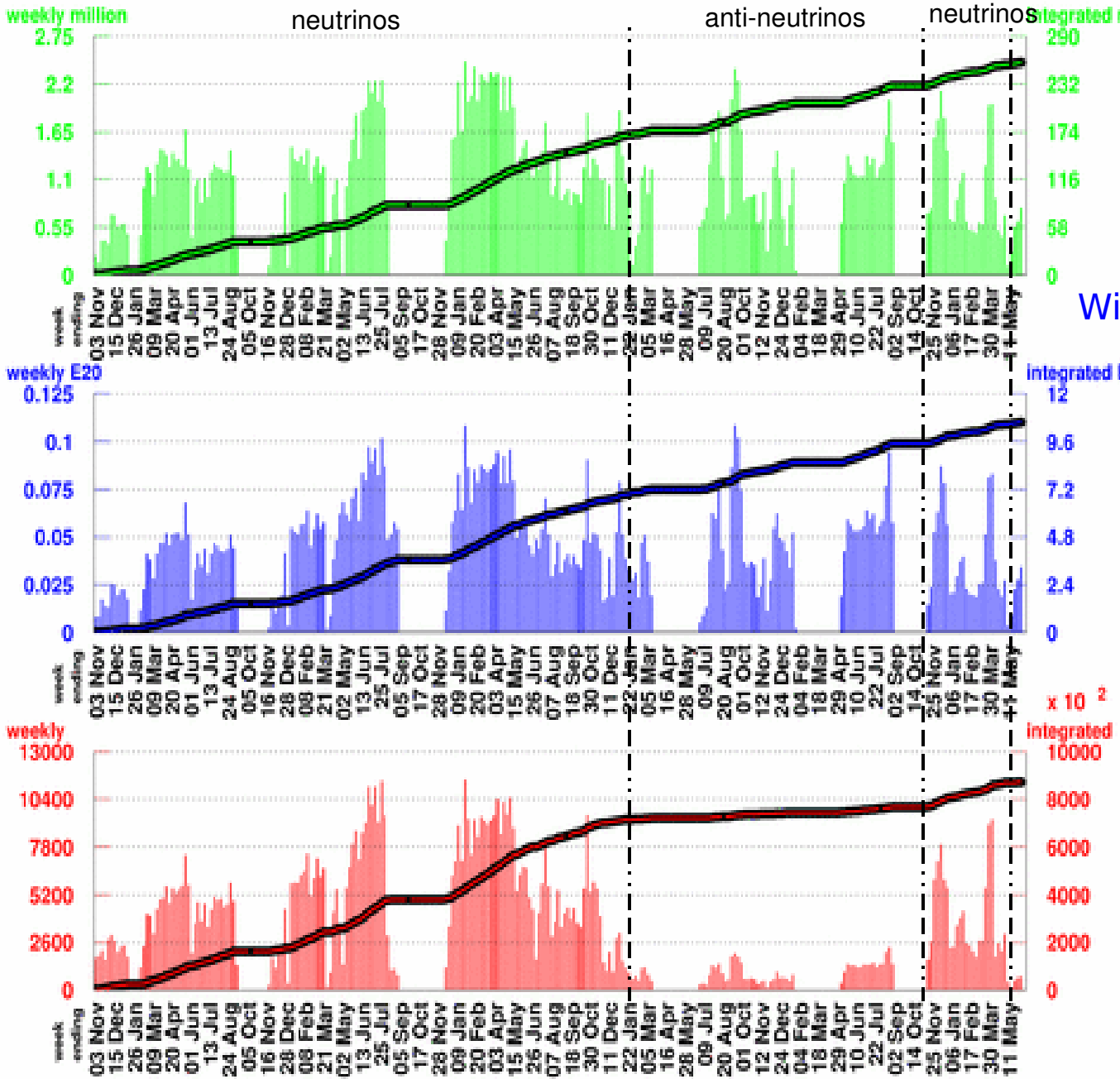
for the MiniBooNE collaboration

12 May 2008

Week Summary 05 May – 12 May 3.4E18 POT, 93% Uptime

- Improved antineutrino running at 10 turns and higher rep rates ~1.5 Hz => ~2.3E16 p/hr. Huge thanks to Proton source group and AD for:
  - Booster efficiency over 90% for 10 turns.
  - Reduced linac intensity variability.
  - Transition crossing has improved (reduced losses).
  - RF mode damping correction allowed increased rep rate.
- Major Downtime:
  - 5 hrs, Booster RF repairs (May 8).

05 May – 12 May



Number of Horn Pulses

To date: 258.05 million

Largest week: 2.46 million

Latest week: 0.77 million

With Beam Information Cuts

Number of Protons on Target

To date10.5837 E20

Largest week: 0.1085 E20

Latest week: 0.0342 E20

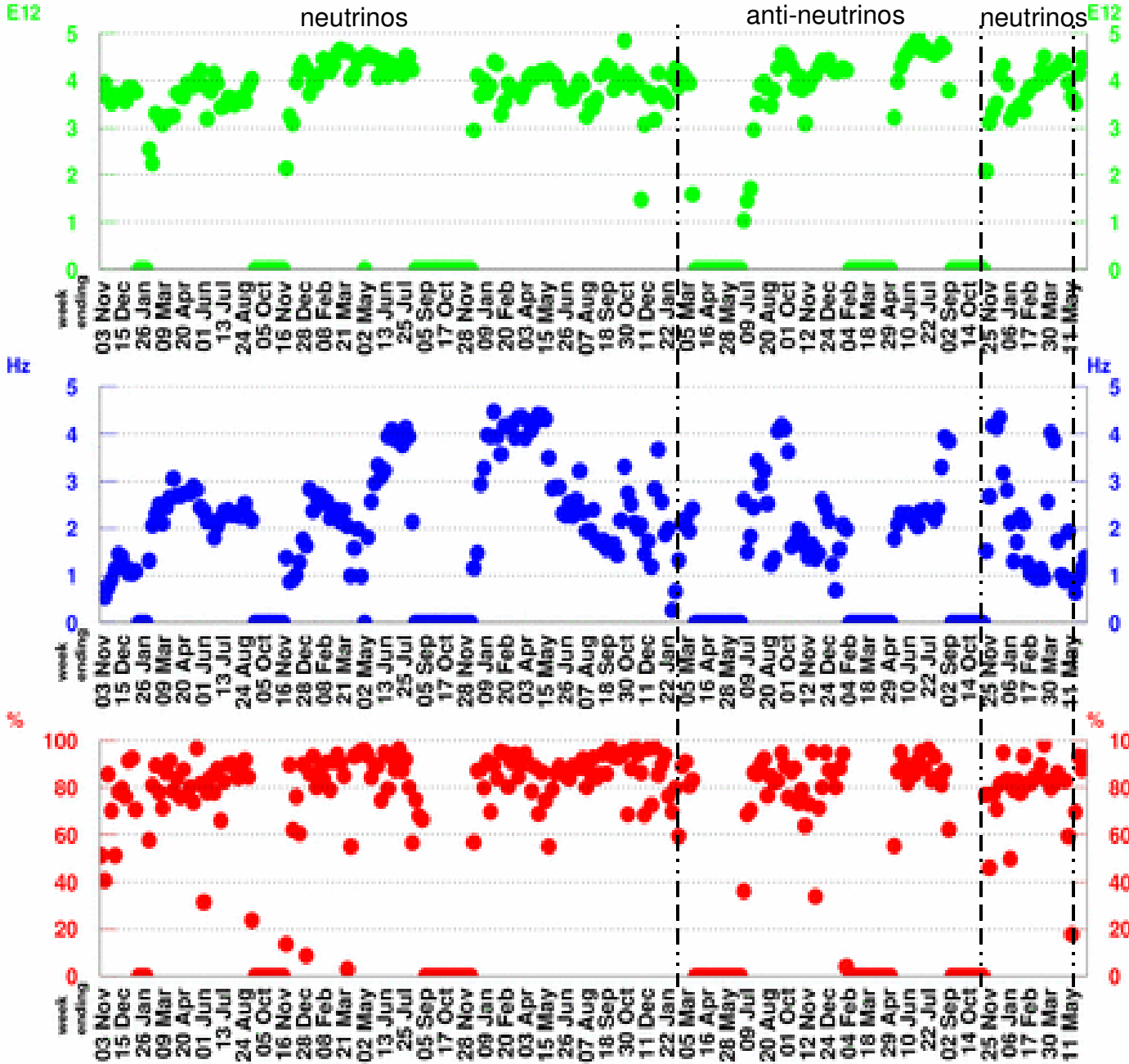
Number of Neutrino Events

To date:871251

Largest week: 11447

Latest week: 720

05 May – 12 May



POT per Horn Pulse

Largest week: 4.89 E12

Latest week: 4.43 E12

Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 1.39 Hz

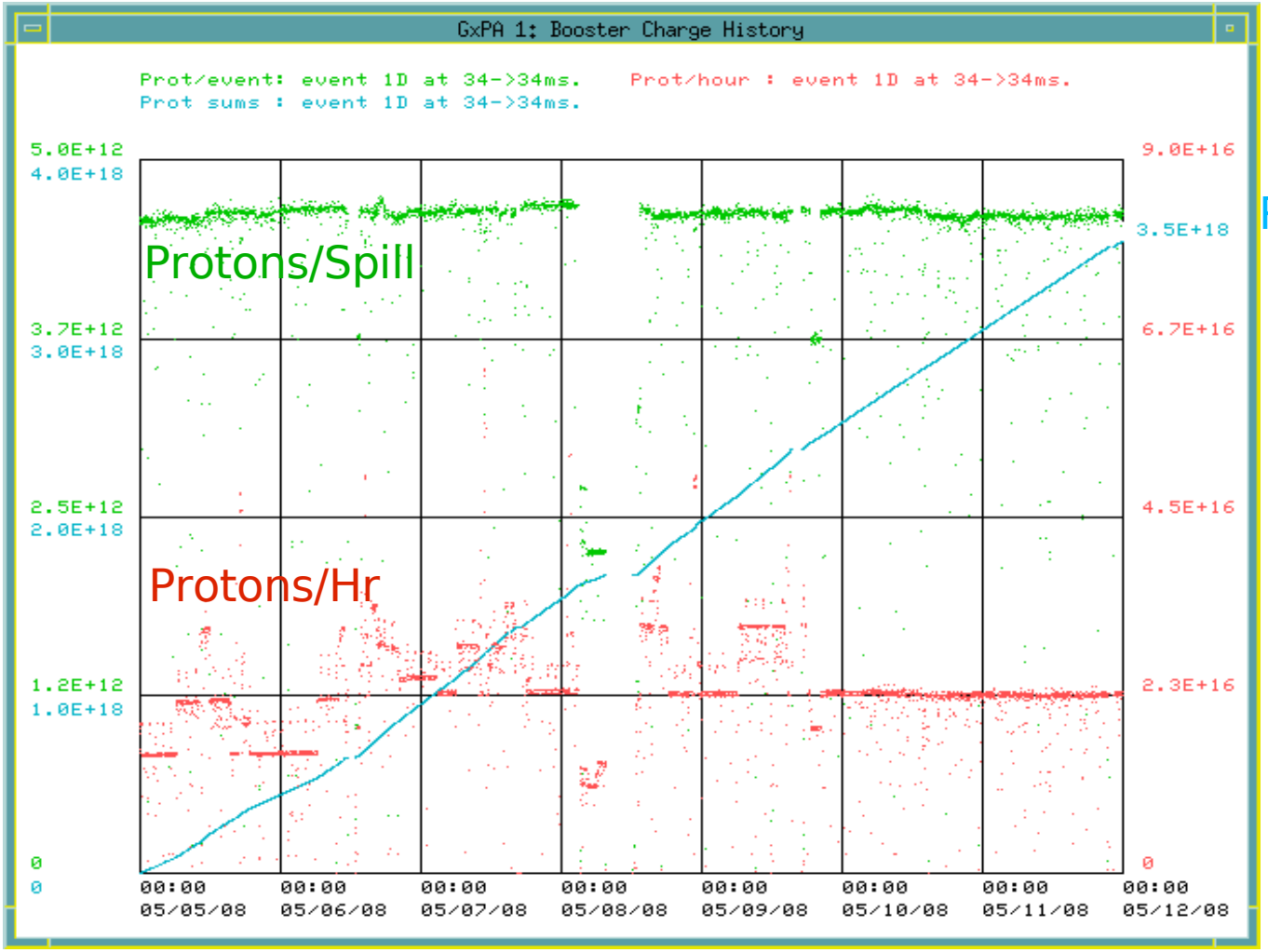
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 98.1 %

Latest week: 92.7 %

One Week MB Proton/Hr Summary



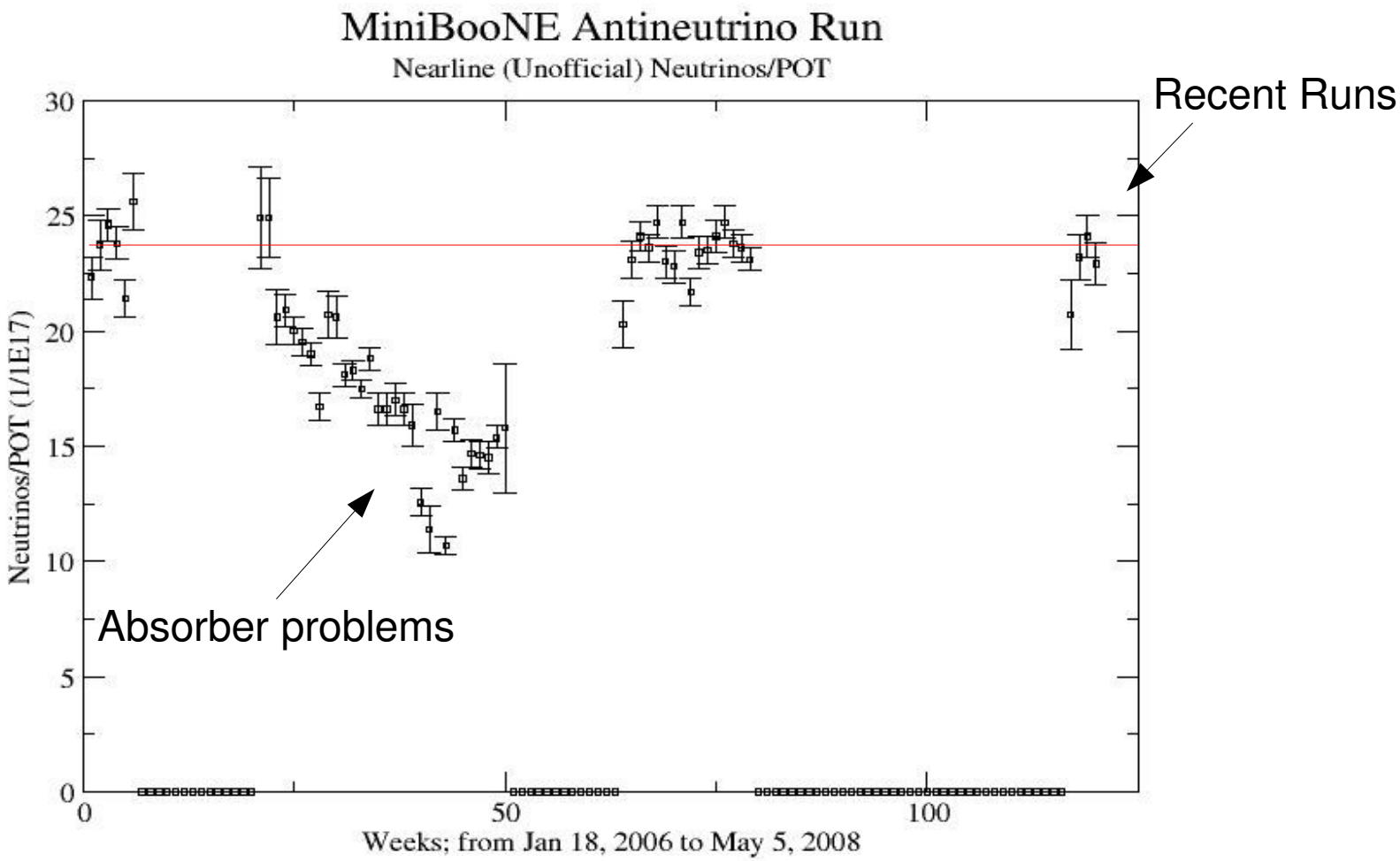
POT/week

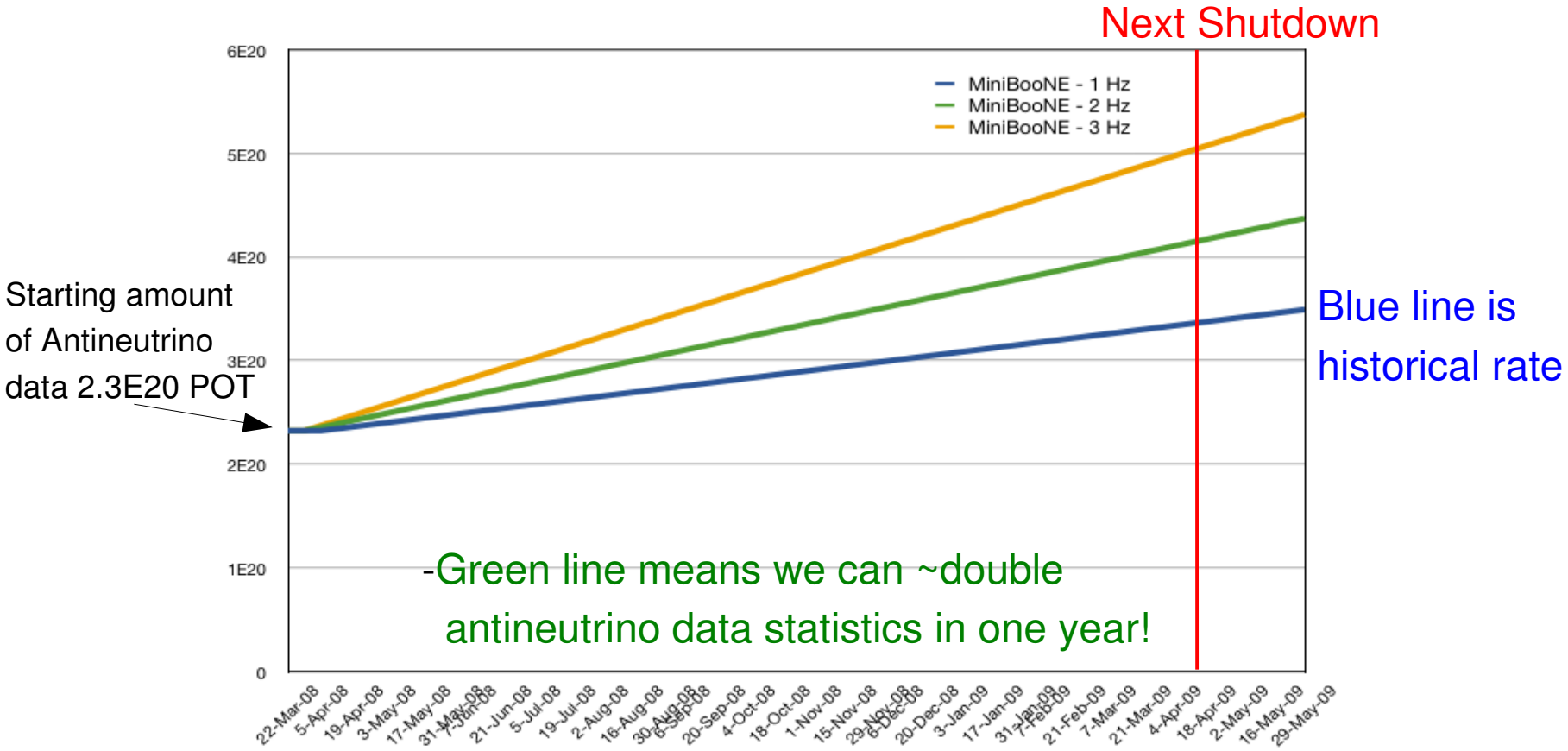
05 May

12 May

Tuned up to 10 turns, ~1.5Hz, ~2.3E16 p/hr, steady running!

AntiNeutrino/POT



This Week's Plan

- Continue stable running, enjoy the recent increases!