MiniBooNE Report

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for the MiniBooNE collaboration

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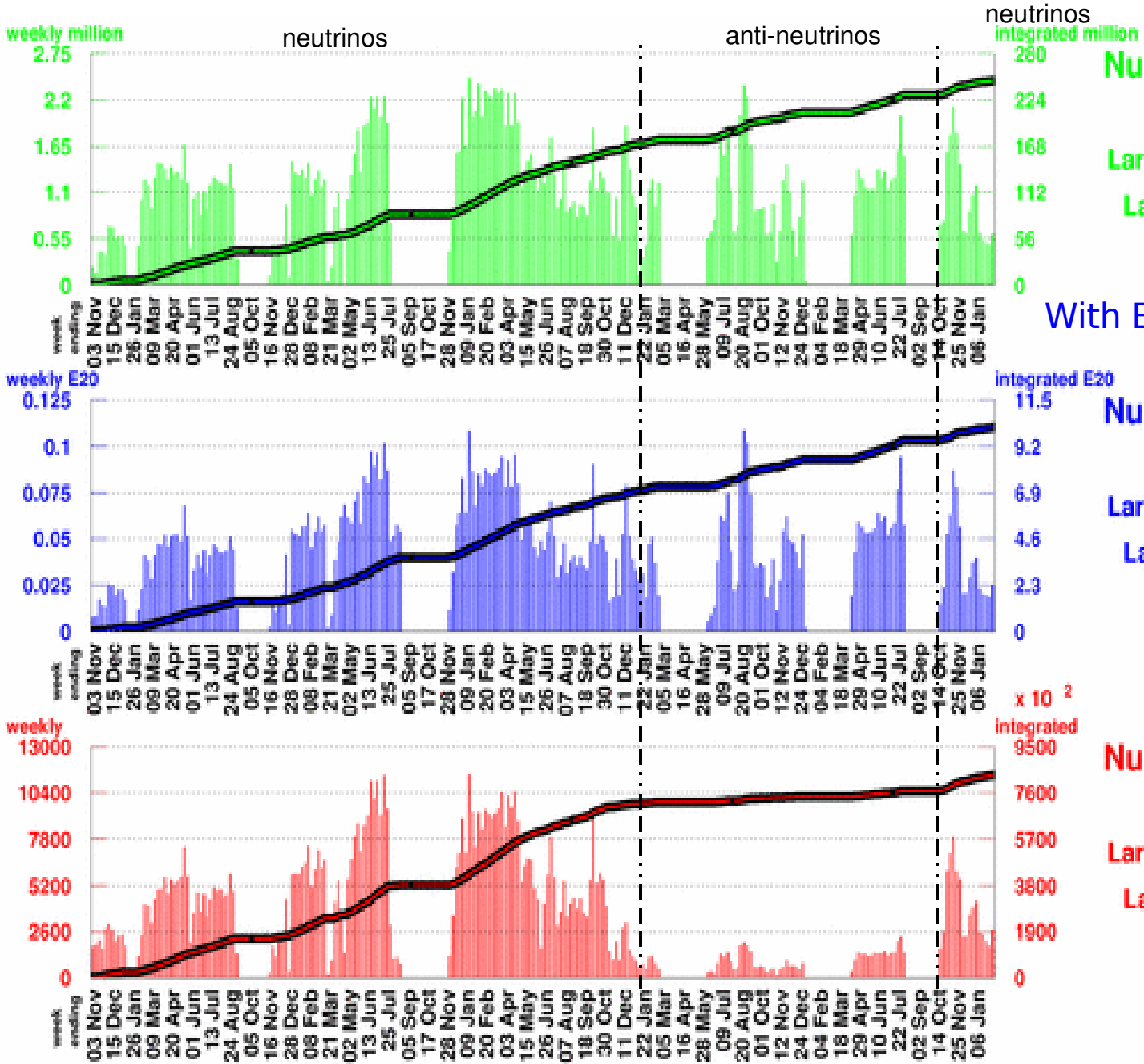
Week Summary 04 Feb – 11 Feb 2.5E18 POT, 89% Uptime

- Improved Booster tuning increased BNB to 11 turns, running at ~4.5E12 protons per pulse.
- Tried higher rep rate (~2 Hz to BNB).
- Good beam uptime!
- Major Downtime:
  - 4 hrs, MI access (Feb 4).
  - 8 hrs, F-sector access (Feb 8).

04 Feb – 11 Feb



Number of Horn Pulses

To date: 247.5 million

Largest week: 2.46 million

Latest week: 0.6 million

With Beam Information Cuts

Number of Protons on Target

To date10.1393 E20

Largest week: 0.1085 E20

Latest week: 0.0254 E20

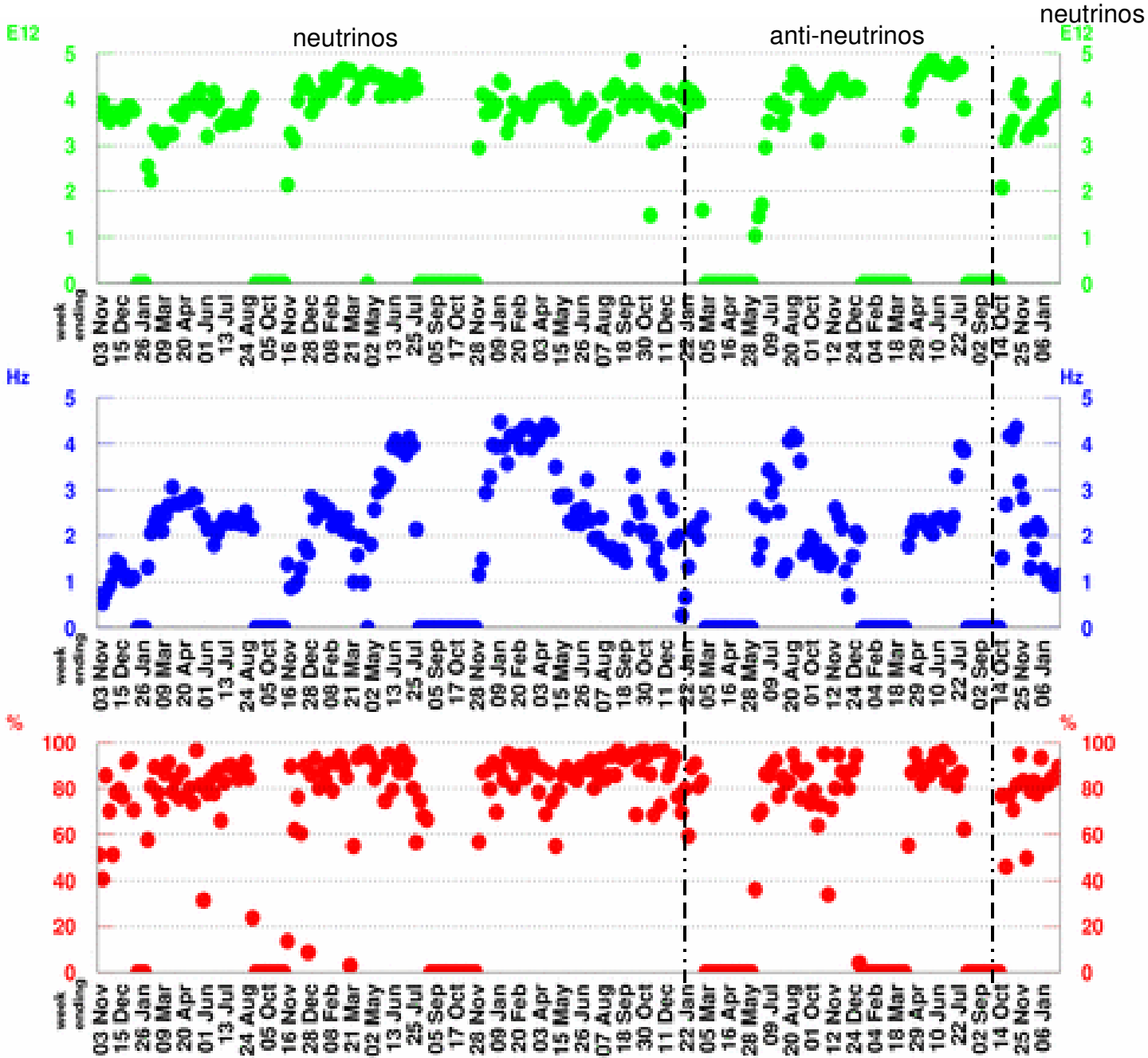
Number of Neutrino Events

To date:832626

Largest week: 11447

Latest week: 2705

04 Feb – 11 Feb



POT per Horn Pulse

Largest week: 4.89 E12

Latest week: 4.23 E12

Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 1.14 Hz

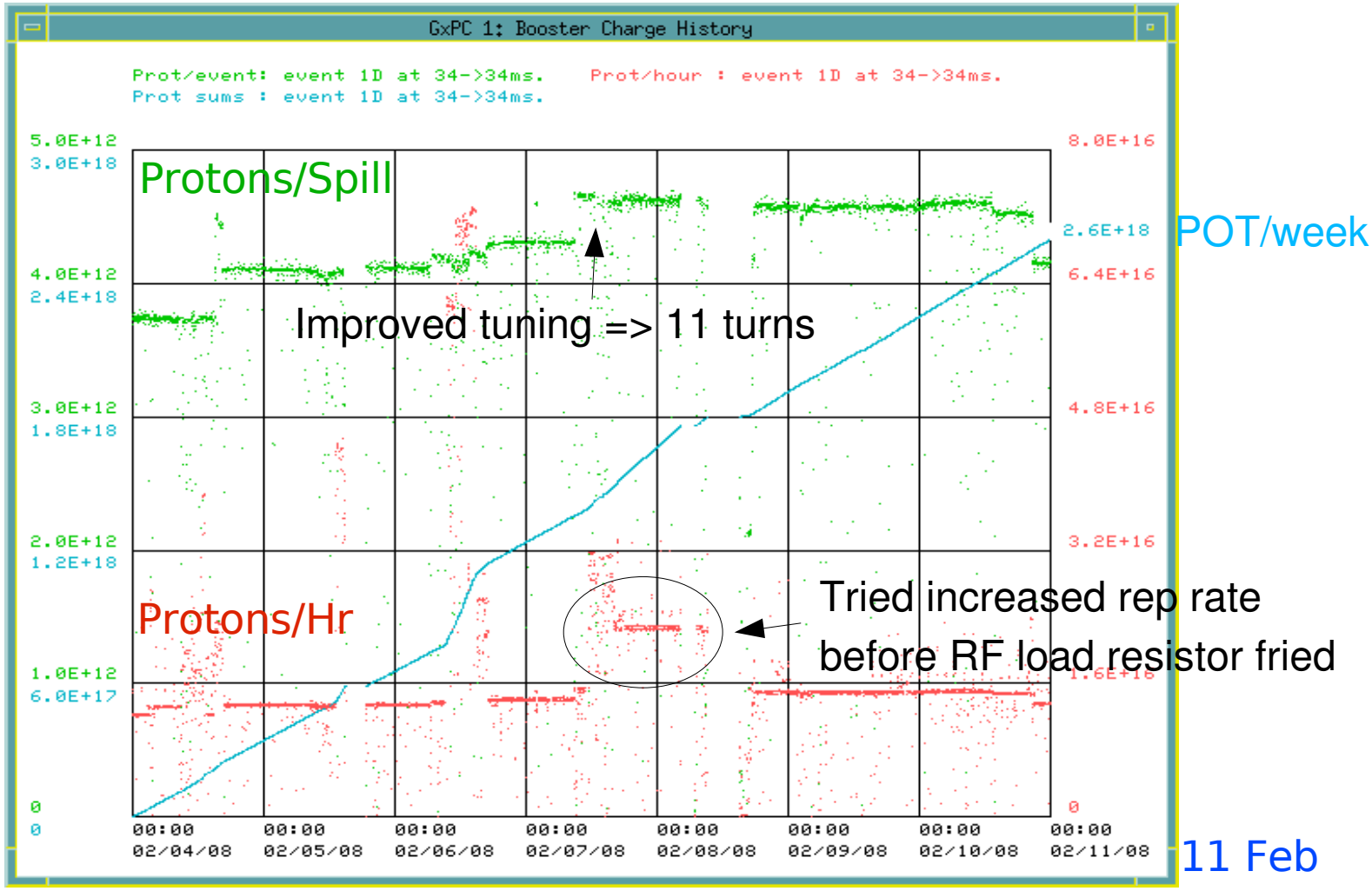
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 97.4 %

Latest week: 89.3 %

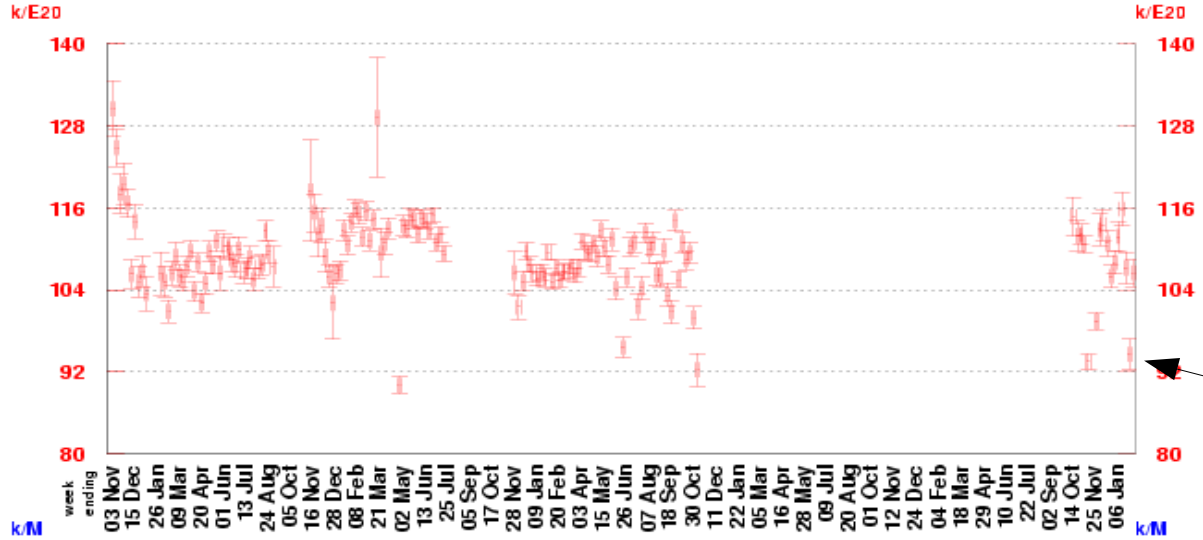
One Week MB Proton/Hr Summary



Increased to 11 turns, ~4.5E12 protons/spill.

Nearline Neutrino Rates

(does not include data quality corrections)

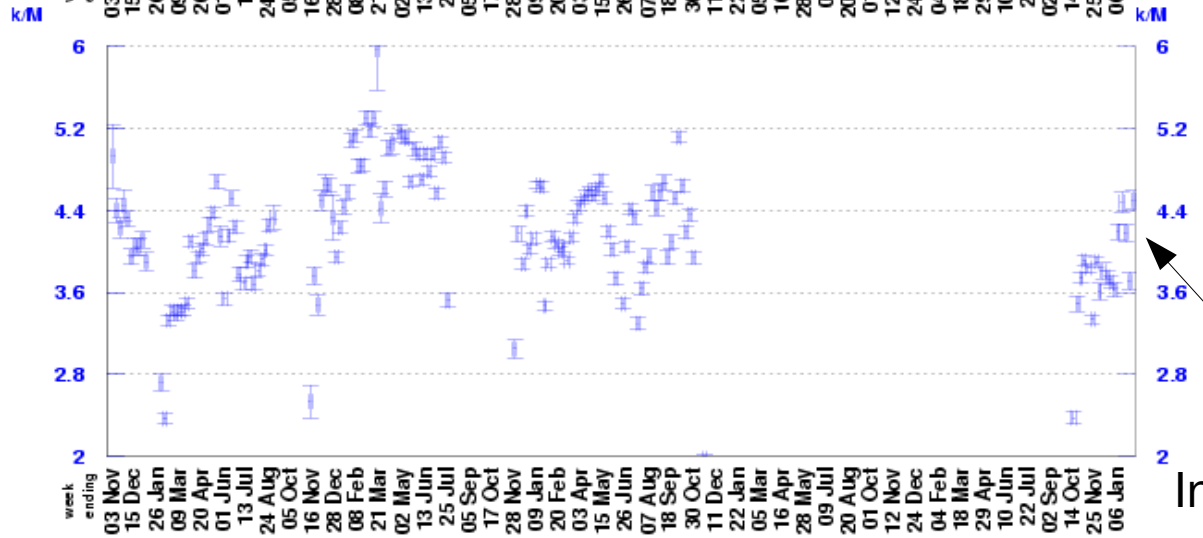


Neutrino Events per POT

Largest week: 178.5 k/E20

Latest week: 106.5 k/E20

Missing full RWM signal, data okay



Neutrino Events per Horn Pulse

Largest week: 90.91 k/M

Latest week: 4.5 k/M

Increase in average POT/spill

This Week's Plan

- Continue stable running, hope for higher rep rate to increase BNB POT/week.