MiniBooNE Report

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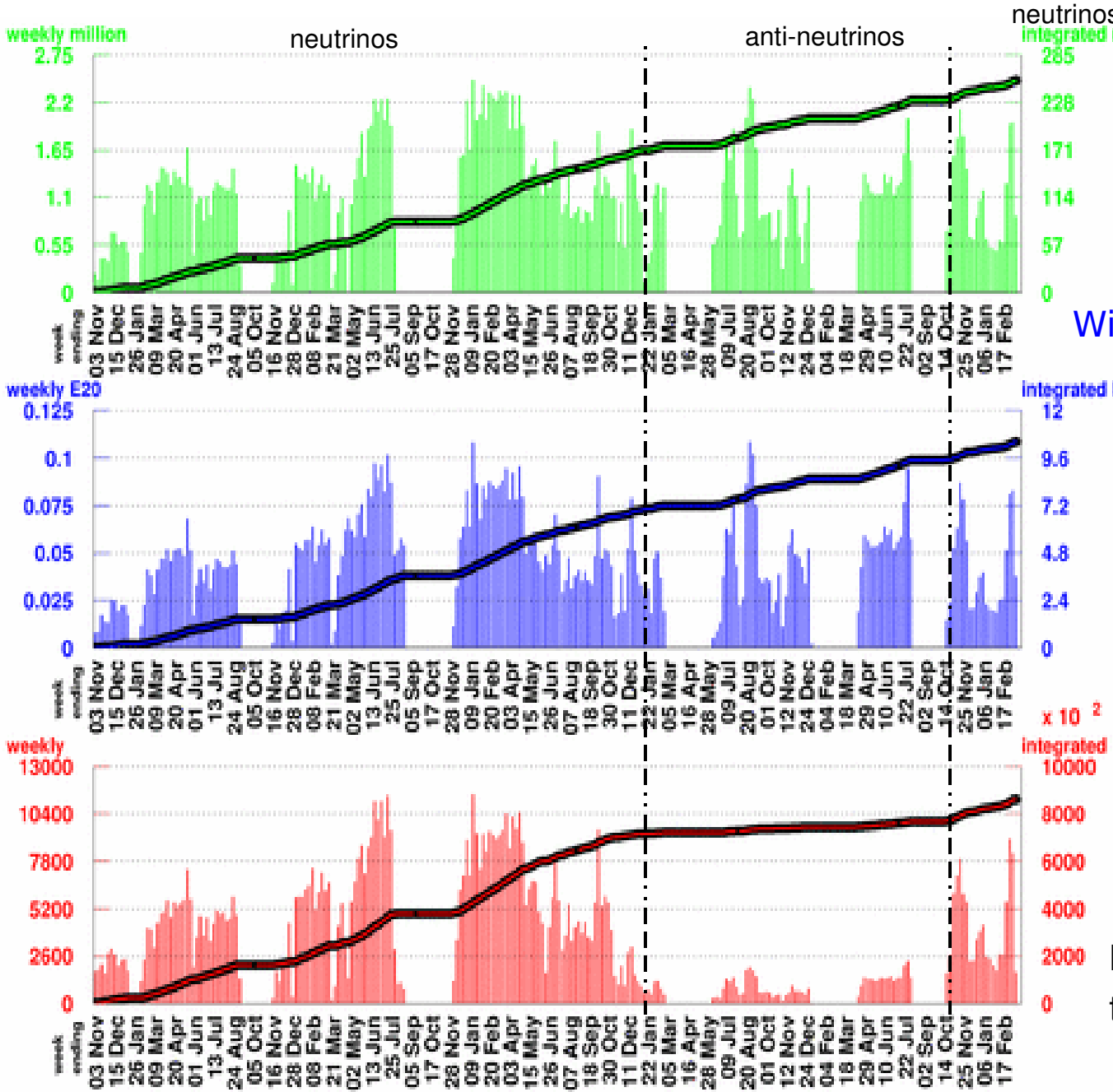
for the MiniBooNE collaboration

17 March 2008

Week Summary 10 Mar – 17 Mar 3.7E18 POT, 86% Uptime

- NuMI off early in the week, running steady at 4.2E12 p/pulse and ~6.0E16 p/hr.
- NuMI back on later in the week, rates dropped to ~1.5E16 P/hr.
- Major Downtime:
  - 12 hrs, Leaking RAW flow meter repair (Mar 11).
  - 4 hrs, Booster access (Mar 14).

10 Mar – 17 Mar



Number of Horn Pulses

To date: 254.13 million

Largest week: 2.46 million

Latest week: 0.88 million

With Beam Information Cuts

Number of Protons on Target

To date: 10.418 E20

Largest week: 0.1085 E20

Latest week: 0.0377 E20

Number of Neutrino Events

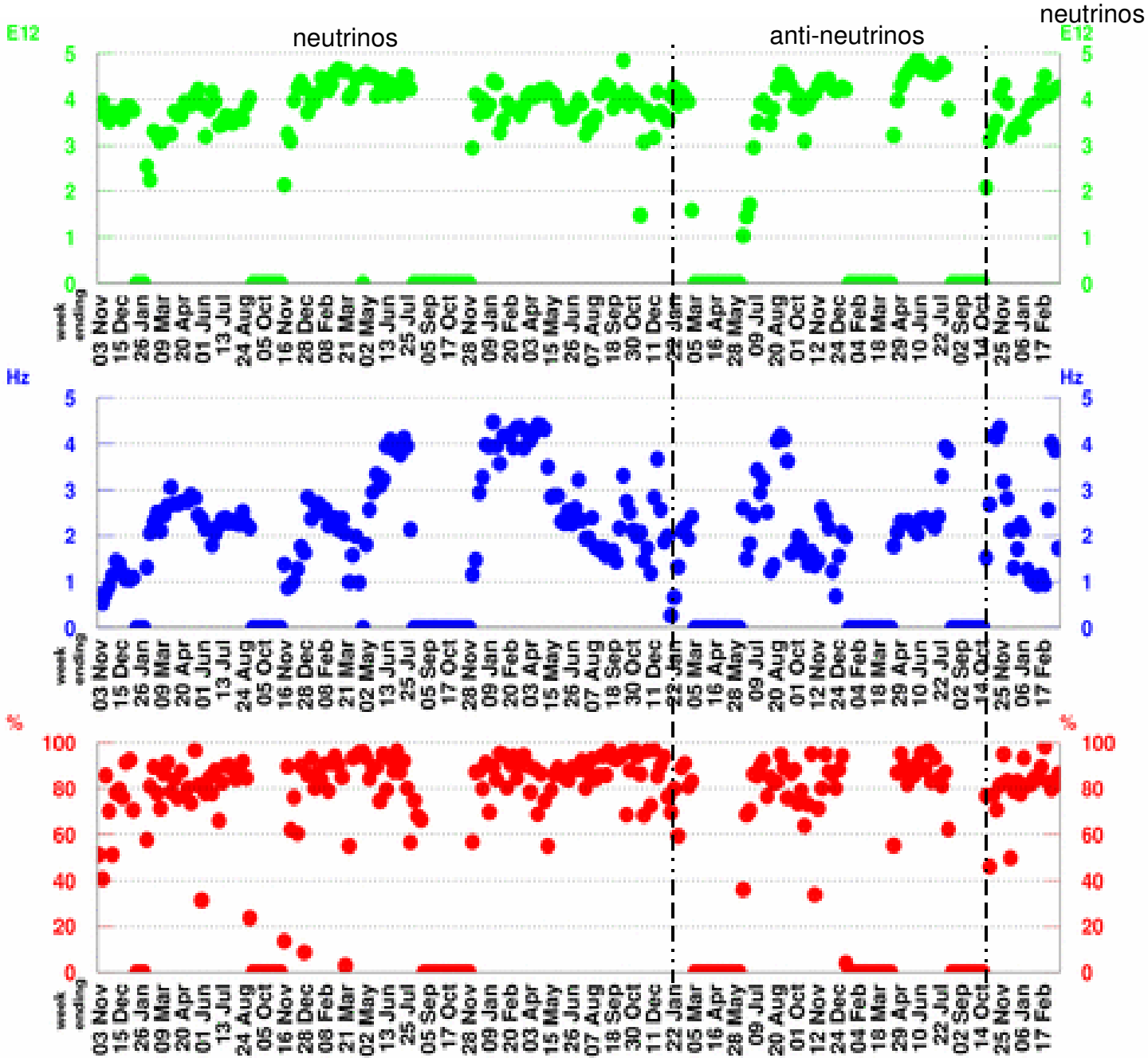
To date:859876

Largest week: 11447

Latest week: 1716

Missing neutrinos due to nearline counting problem

10 Mar – 17 Mar



POT per Horn Pulse

Largest week: 4.89 E12

Latest week: 4.26 E12

Horn Rate

(for time periods with beam)

Largest week: 4.48 Hz

Latest week: 1.73 Hz

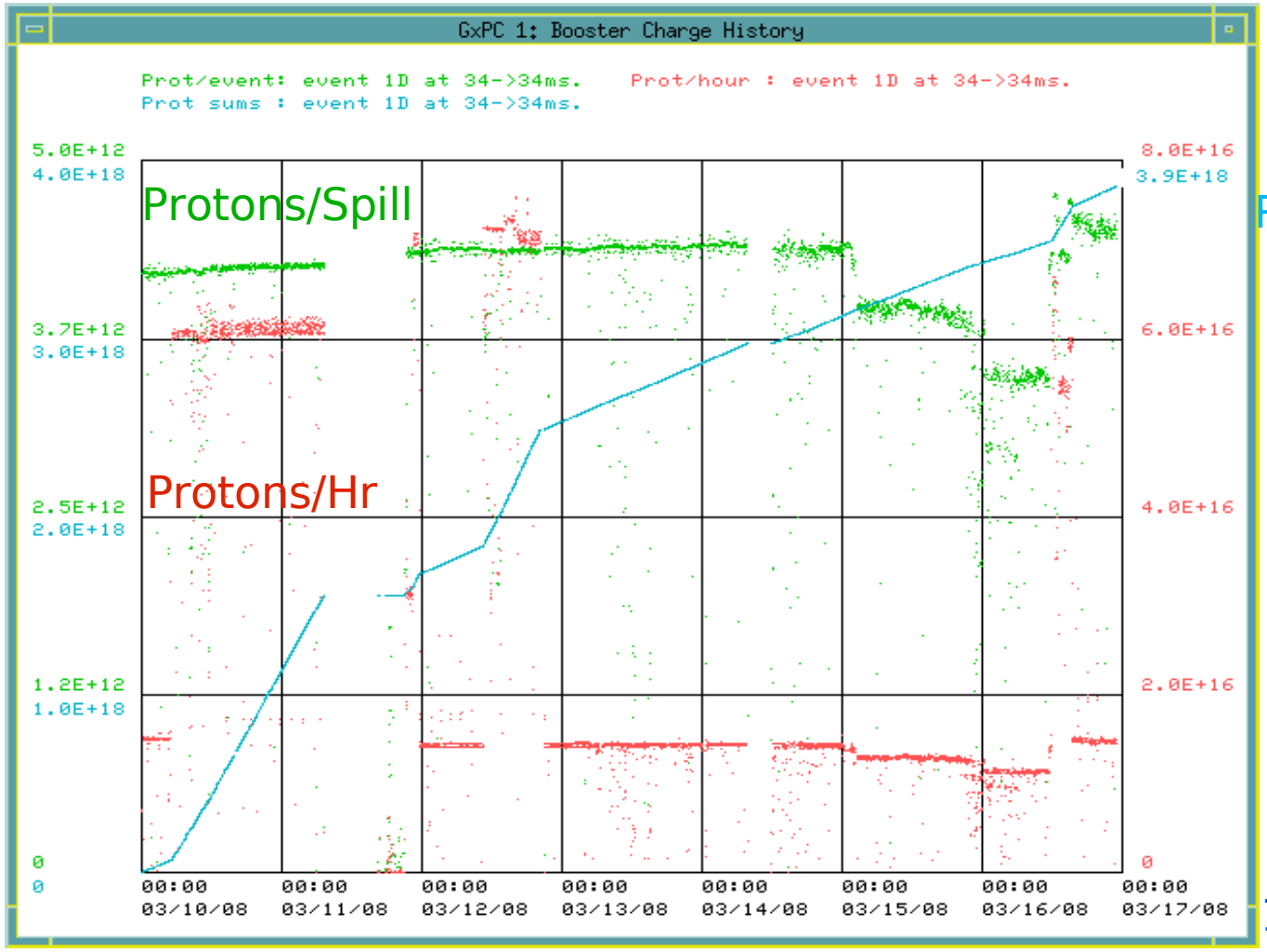
Beam Uptime Fraction

(fraction of time with beam)

Largest week: 98.1 %

Latest week: 86.2 %

One Week MB Proton/Hr Summary



POT/week

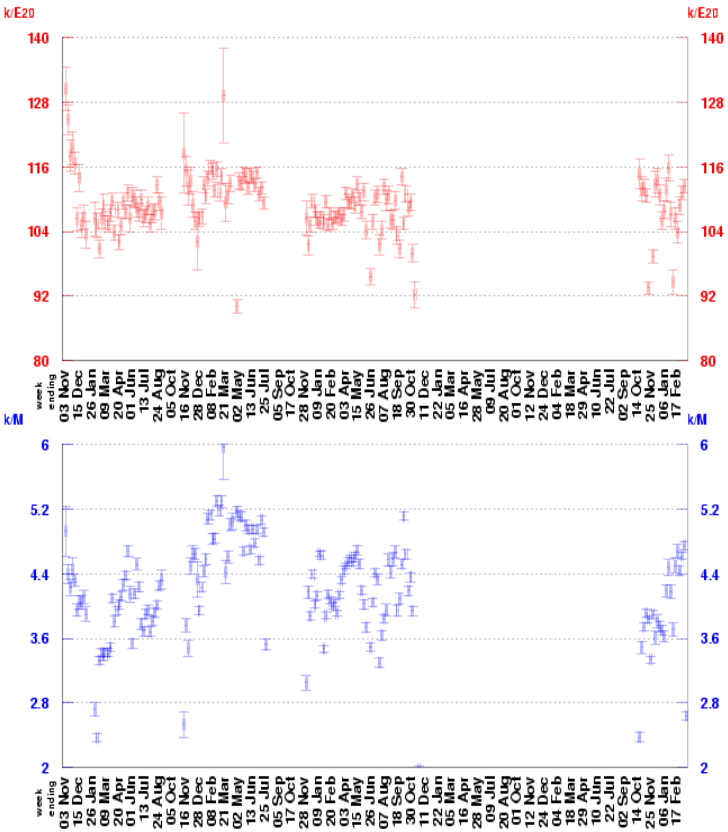
10 Mar

17 Mar

Periods of high intensity NuMI off running, good uptime.

Nearline Neutrino Rates

(does not include data quality corrections)



Neutrino Events per POT

Largest week: 178.5 k/E20

Latest week: 62.1 k/E20

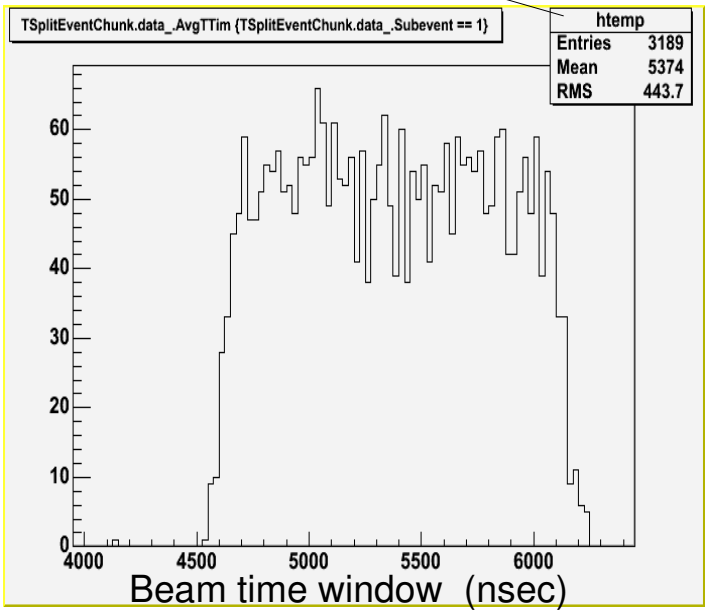
Neutrino Events per Horn Pulse

Largest week: 90.91 k/M

Latest week: 2.64 k/M

Correct neutrino/POT

3189/1716 x 62 = 116 k/E20



Number of Neutrinos Mar 10 to Mar 17 when RWM requirement removed.

This Week's Plan

- Continue stable running.
- Planning for April 14th horn polarity switch.