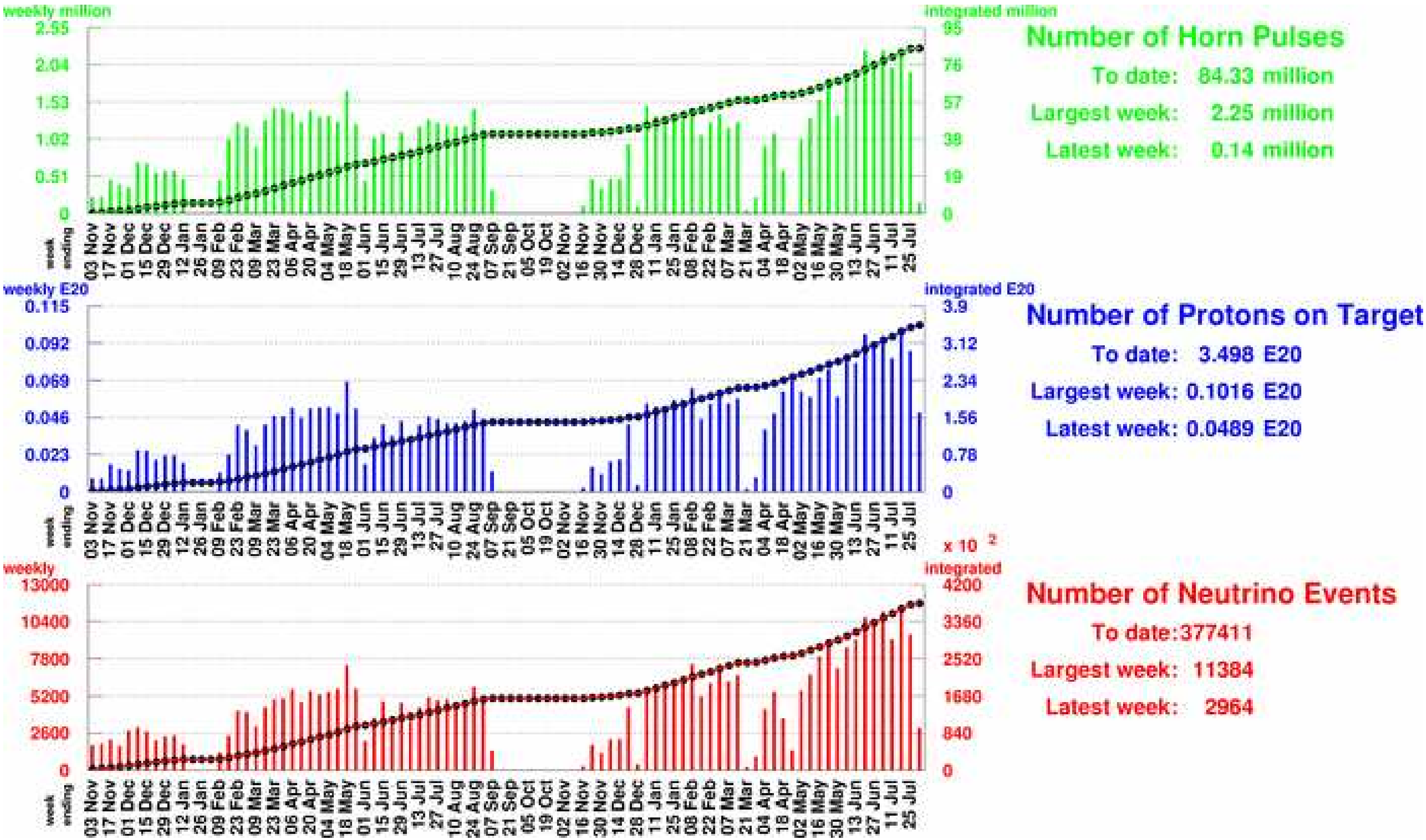
All Experimenters Meeting : MiniBooNE

Heather Ray, Chris Green

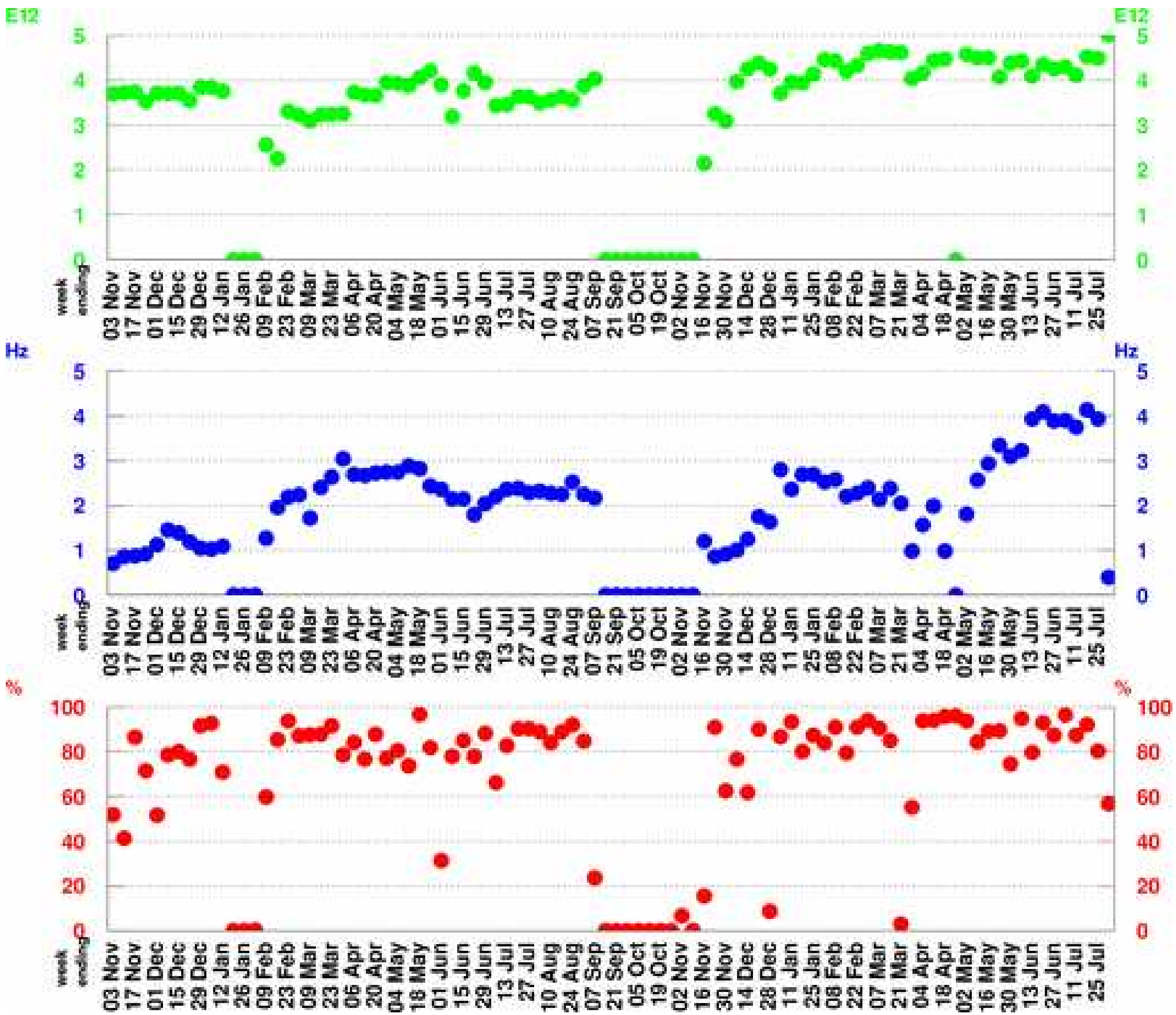
hray@fnal.gov, greenc@fnal.gov

Los Alamos National Laboratory

Standard Plot 1



Standard Plot 2



POT per Horn Pulse

Largest week: 5.01 E12

Latest week: 5.01 E12

Horn Rate

(for time periods with beam)

Largest week: 4.13 Hz

Latest week: 0.4 Hz

Beam Uptime Fraction

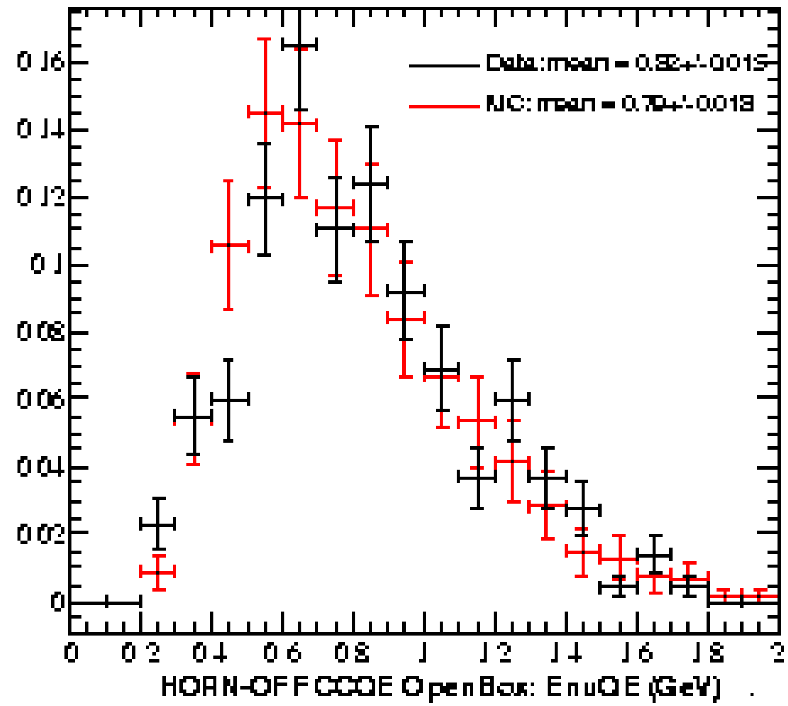
(fraction of time with beam)

Largest week: 96.7 %

Latest week: 56.7 %

Weekend Horn Off Running

- Need Horn-Off measurements to tune MC
- Limited H-O statistics from April running $\rightarrow$ behavior in energy peak not clear
- $\sim$ doubled our H-O statistics
- Planned for more H-O running in early 2005
- Also did 1 turn running for LMC : 4 special low intensity runs, study track ϵ



Physics Plans to Shutdown

- Full Horn Current
  - 4 days of 1/3 current running (finish mapping horn current)
  - normal running until shutdown : $\sim$0.22x10^{20} total protons
- Full Current $\rightarrow$ Reduce b/c Tripping
  - 4 days of 1/3 current running
  - run at 2/3 current (increase current mapping stats, can include data set into osc. analysis) : $\sim$0.15x10^{20} equiv. protons
  - if trip at 2/3, reduce to 1/3 (increase current mapping stats, can include data set into osc. analysis) : $\sim$0.07x10^{20} equiv. protons
- Horn Off
  - use data for specialized osc. search ($sin^2 2\theta$=0.03, $\triangle m^2$=0.3)
  - would see signal in horn-on mode, horn-off = cross check analysis