# MiniBooNE

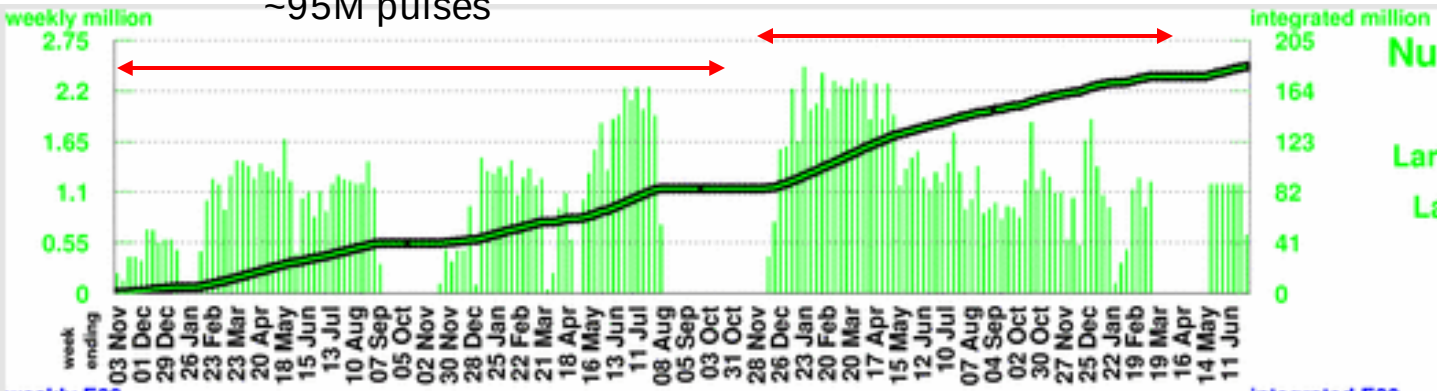
## All Experimenters' Meeting

Ray Stefanski

June 19, 2006

~95M pulses

~ 93M pulses

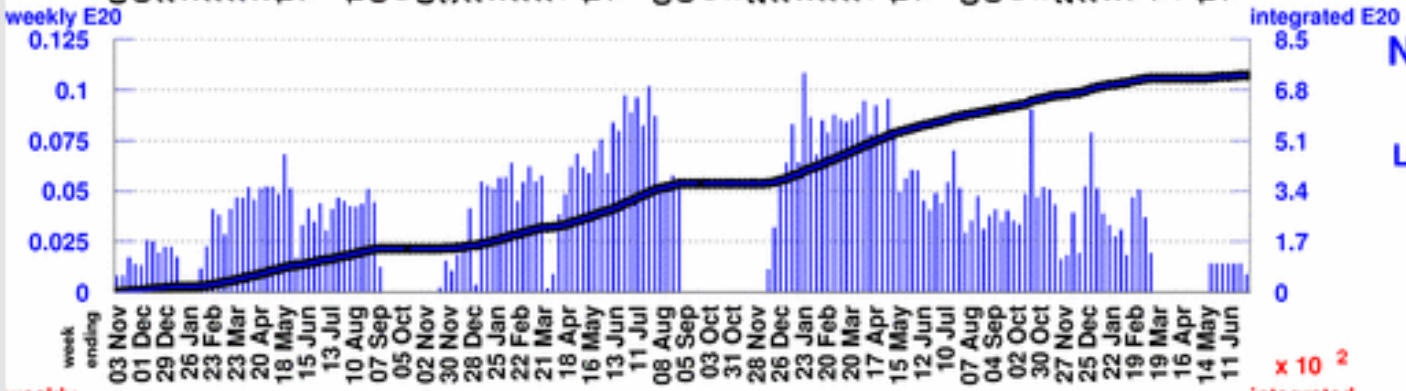



**Number of Horn Pulses**

To date: 183.67 million

Largest week: 2.46 million

Latest week: 0.63 million

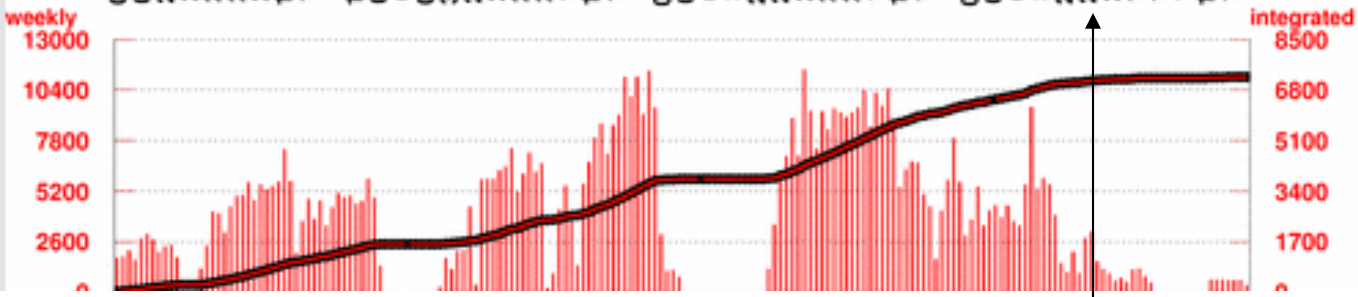



**Number of Protons on Targe**

To date: 7.296 E20

Largest week: 0.1084 E20

Latest week: 0.0089 E20




**Number of Neutrino Events**

To date:724806

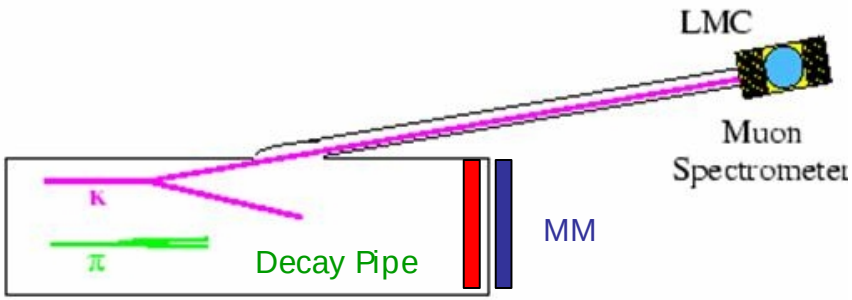
Largest week: 11447

Latest week: 341

Changed to nu_bar beam in 1st week of January.

Operations for week June 12 to June 19.

- 81.5% uptime
- 995,696 events
- 1.34 E+18 POT
- 3.9 E+16 maximum protons/hr
- 9.8 E+15 average proton/hr
- 2.03 average events/sec



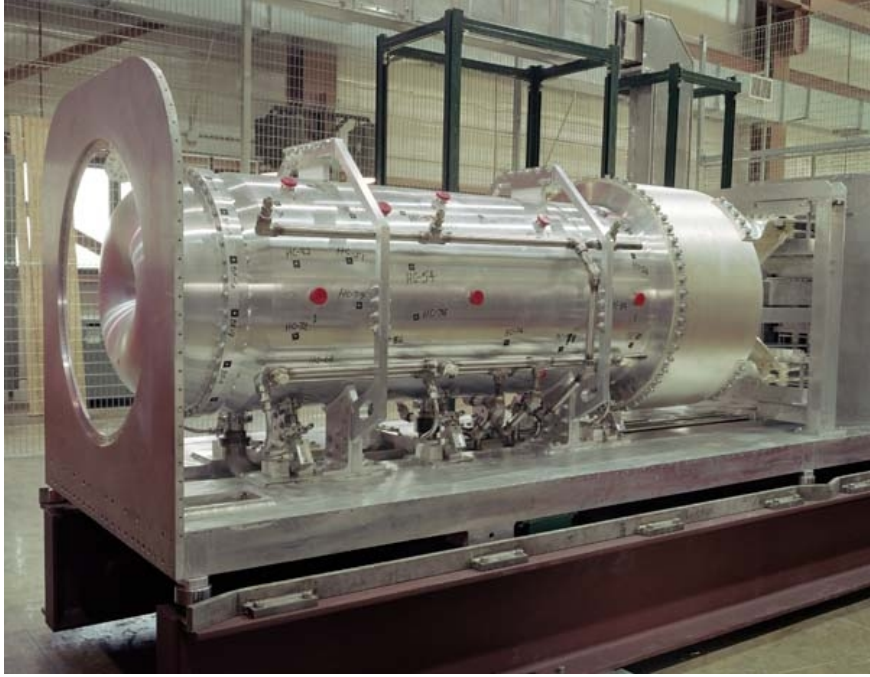

Accomplishments:

Our new nearline computer was brought on-line.
The modifications to our DAQ system are complete.
New computer added
Seamless backup computers now available.
The LMC was brought on-line after the long shutdown:
Discovered that some amplifier boards needed replacement or repair. Damage may have been due to recent thunder storm activity.

To-do list:

Check horn power supply for bad contacts, general clean-up.

After the NuMI spare is built, and the final touches are put on the MB spare horn, check MB horn#1 for cause of water leak and ground current.

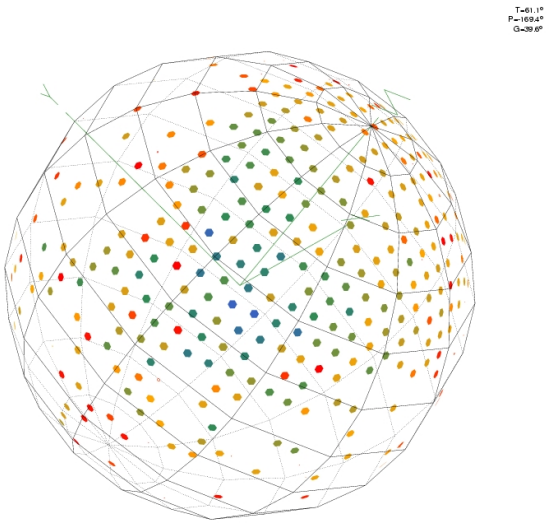


Goals for this week:

Bring the horn power supply back up.

Maybe do some low intensity runs for the LMC.

Get back to normal operating beam intensity and detector efficiency.



1st MB nu_bar event.

Quote of the day:

“Neutrinos as the messengers of CPT violation”

Barenboim, Borissov, Lykken, Smirnov

“The CPT violating scenario, with different spectra for neutrinos and antineutrino
Will have dramatic signatures in future neutrino oscillation experiments. The mos
striking consequence will be seen in MiniBooNE, which is meant to close the
discussion about LSND one way or the other. According to our picture, MiniBooN
will be ableconfirm LSND only when running in the antineutrino mode.”