



# Numi/Minos Status

---

Fermilab All-Experimenters' Meeting  
7/25/05

Rob Plunkett



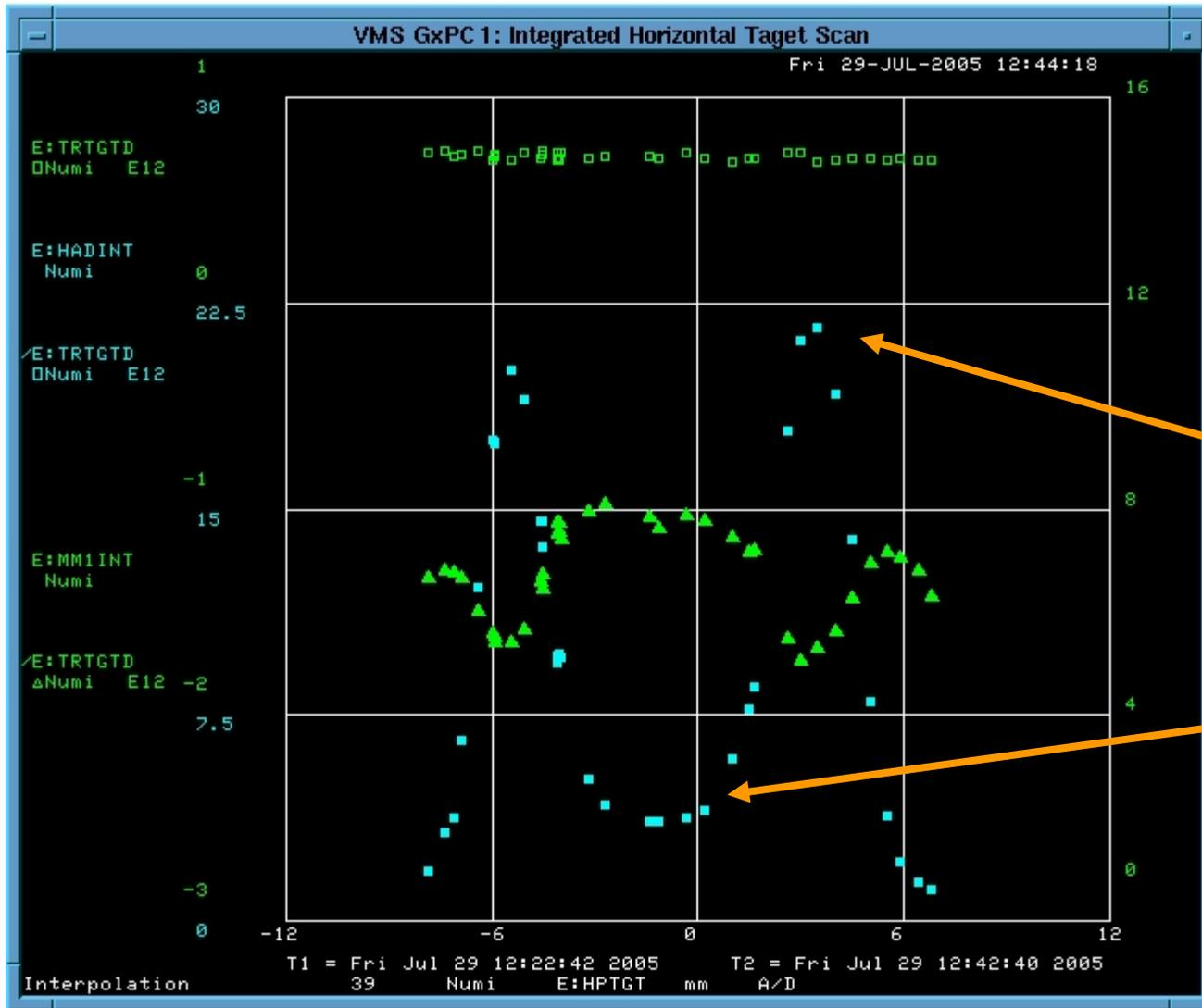
# NuMI Beam Status

- Steadily running with 12 booster turns
  - « Quite an accomplishment! *Thanks to crew and experts.*
- Target scan shows target OK.
- Running with two alternate horn currents to study beam systematics (visible neutrino spectrum)
  - « +/- 15 KAmp => 175 and 200 KAmp
  - «  $1.5 \text{ E } 18$  at each current. Now beginning second one.
- Interleaved cycles successfully improve our beam power
  - « Autotune now doing running average => stable
  - « Approx. far detector rate = 1 event/MW-hour



# Latest Target Scan - July 29

(some change in monitor voltage and torroid calibration)



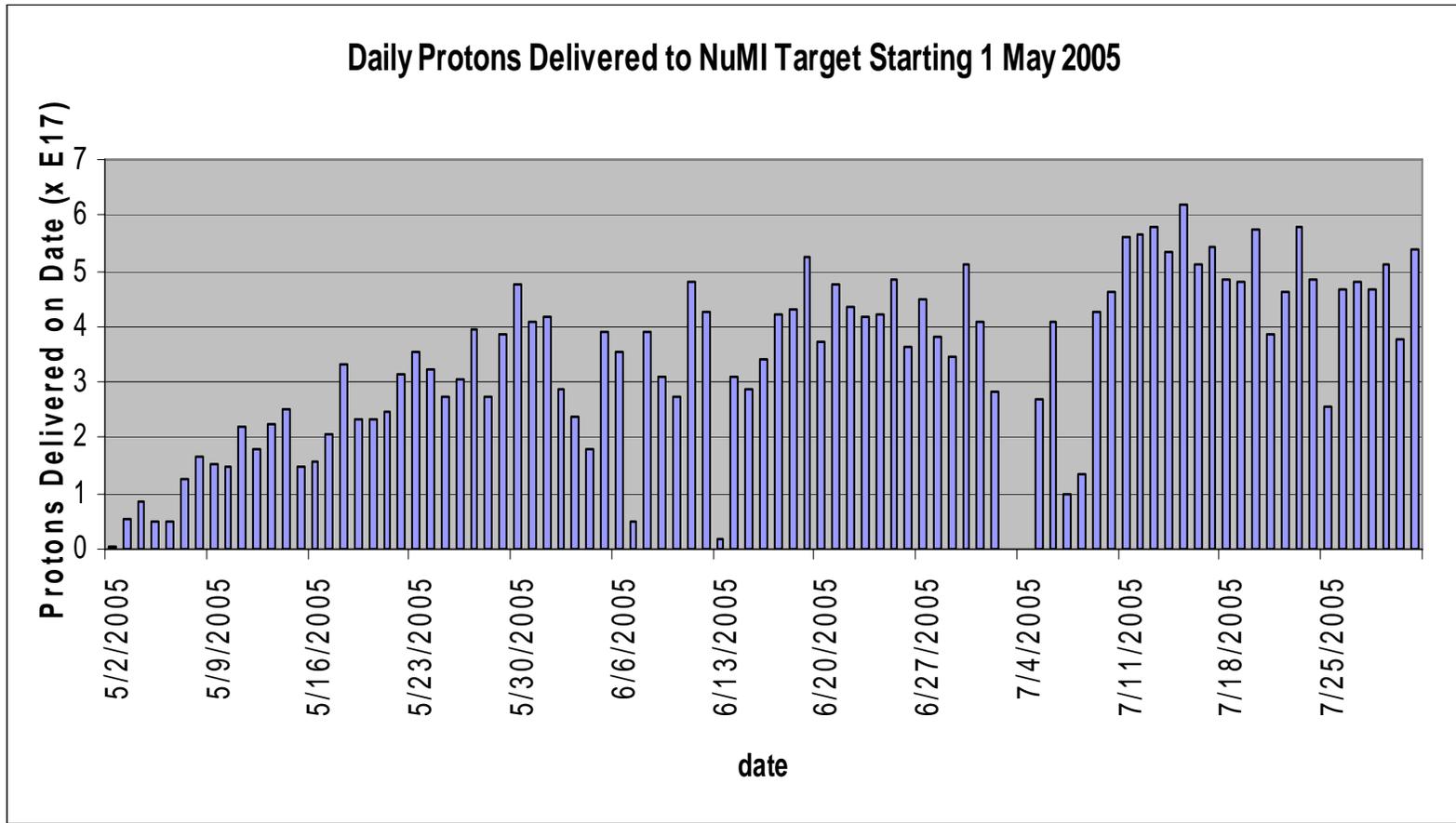
Hadron monitor  
signal as scan target

Peak around 20 V

Valley around 4 V



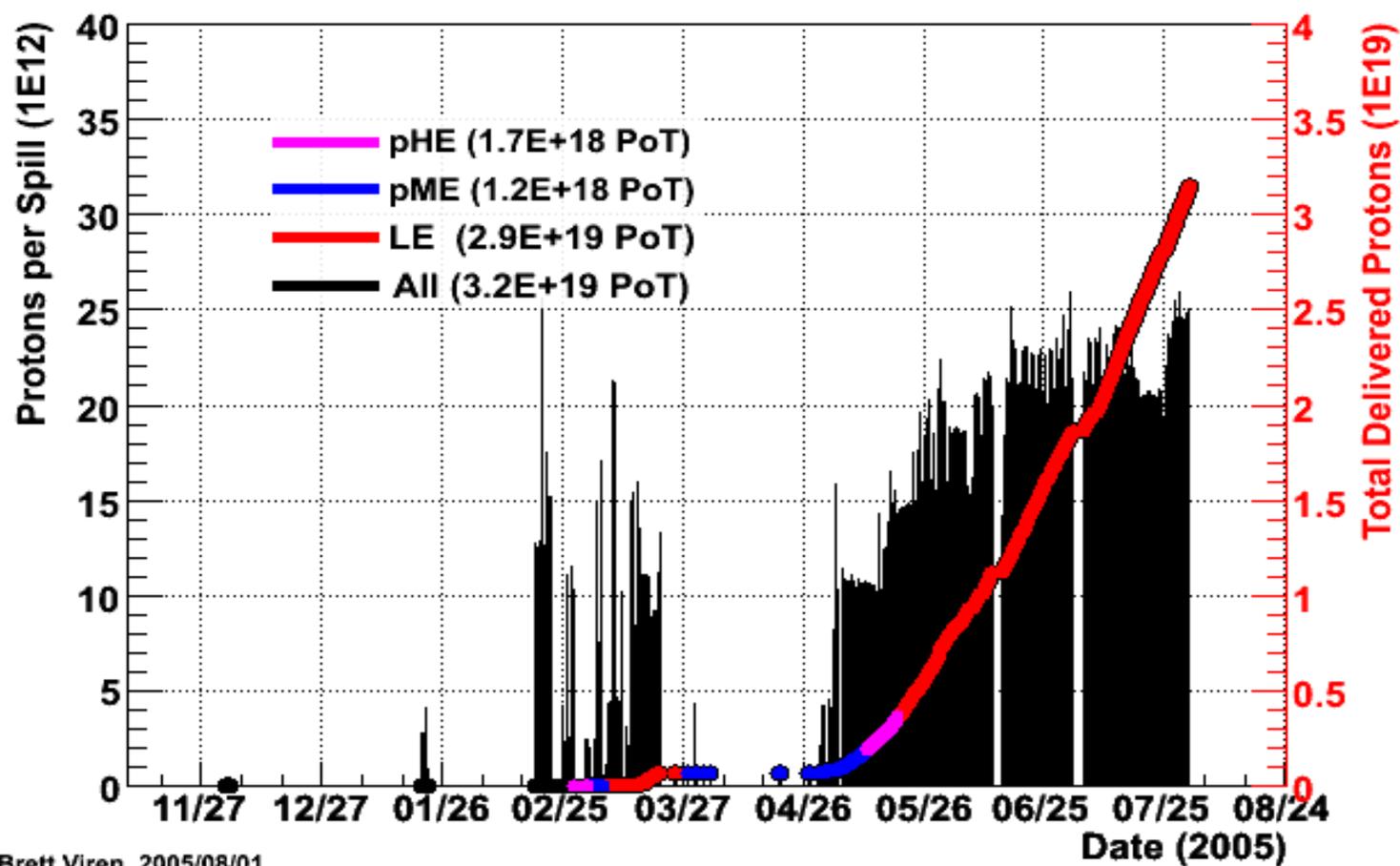
# Protons per Day since 1 May





# Total Delivered Protons

## NuMI Protons

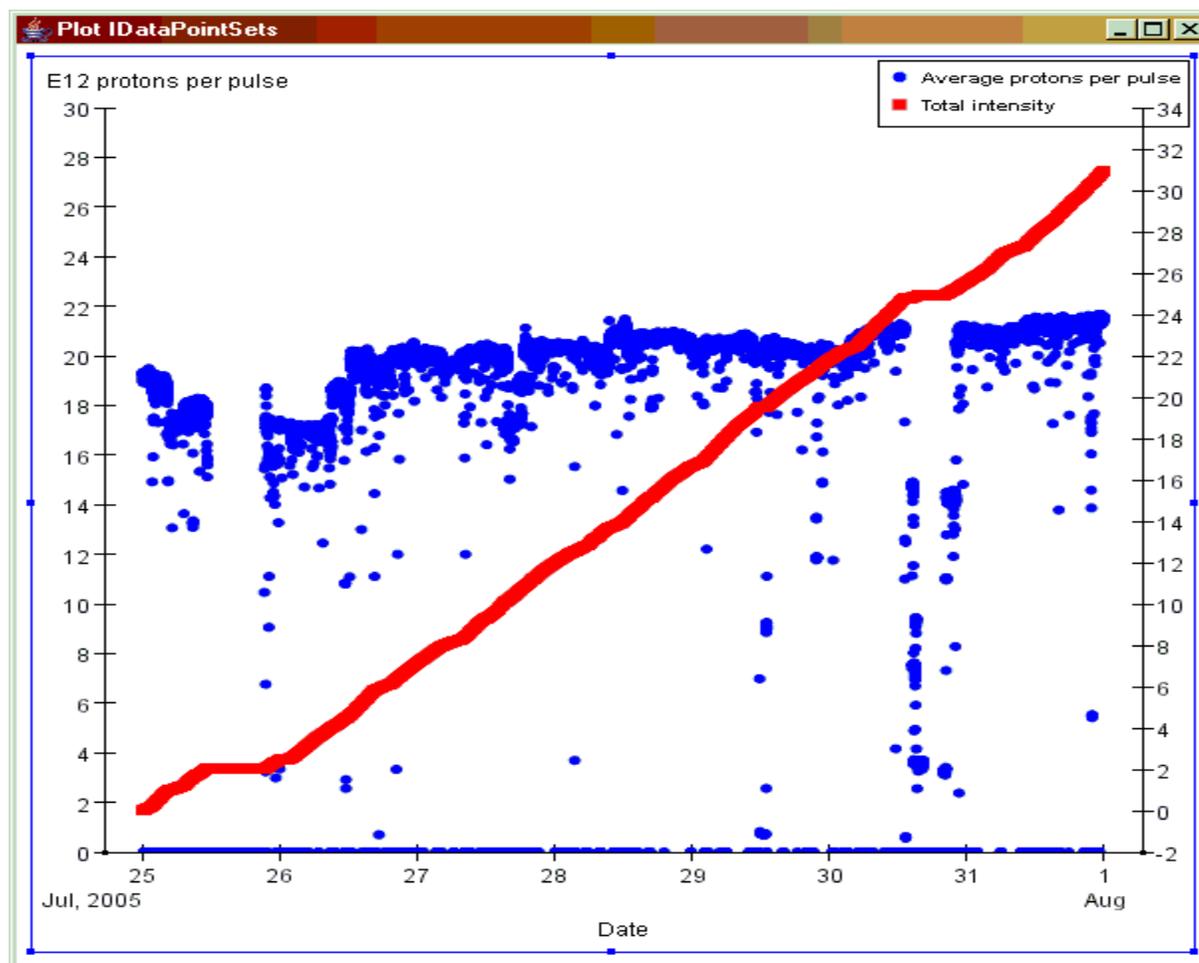


Brett Viren, 2005/08/01



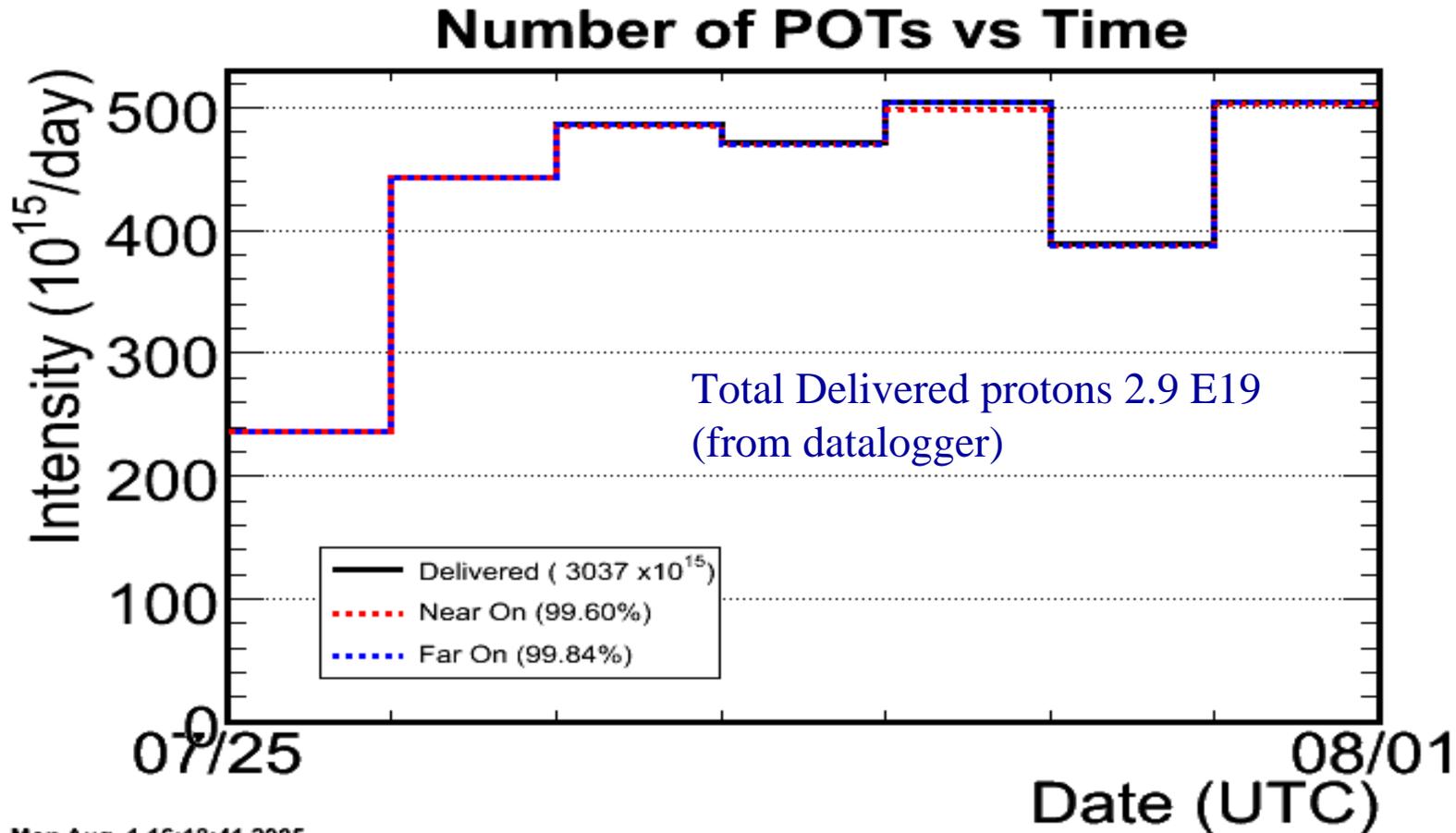
# Protons Delivered in Last Week

R. Plunkett  
Fermilab All  
Experimenters Meeting  
Page 6





# Detector Performance

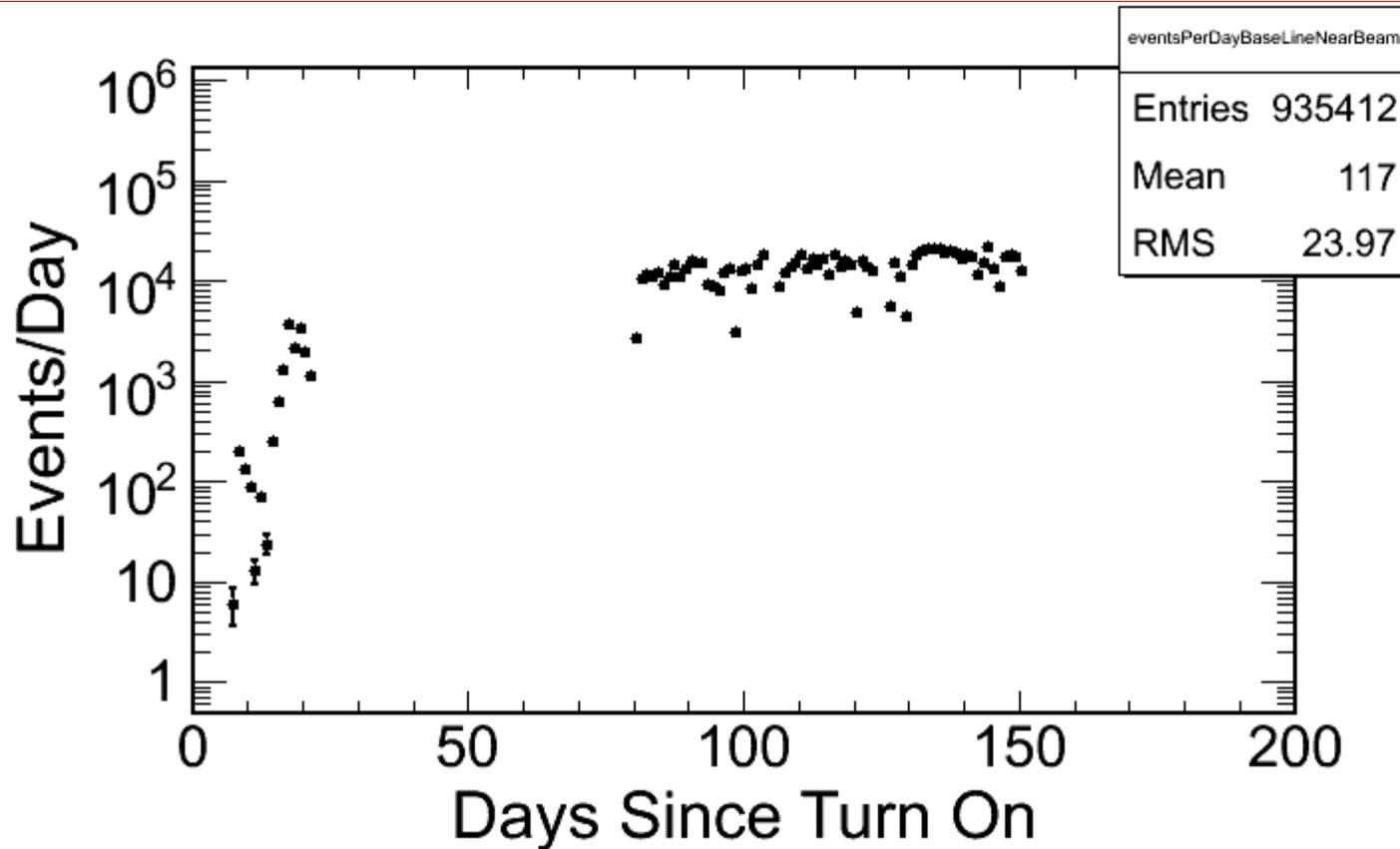


Mon Aug 1 16:18:41 2005

Electronics and HV maintenance during shutdown and target scan only.



# Number of Near Detector Events (Low Energy)



Vertex contained in 4m long by 1m radius fiducial volume around beam center