



NuMI-MINOS Status Report – Bob Zwaska

All Exp Mtg
Aug 4, 2008

Two weeks of good running:

- 7/21/08 – 7/27/08: 6.23×10^{18} protons
- 7/28/08 – 8/3/08: 6.28×10^{16} protons

Detectors Running Well

New Horn 1 Neutrino Spectrum

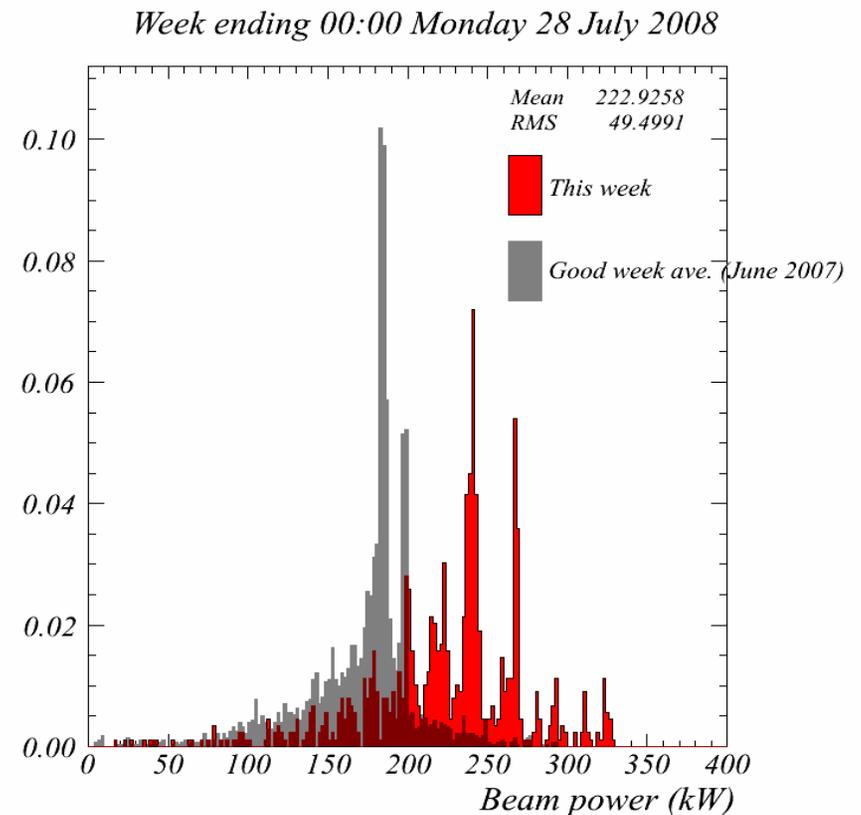
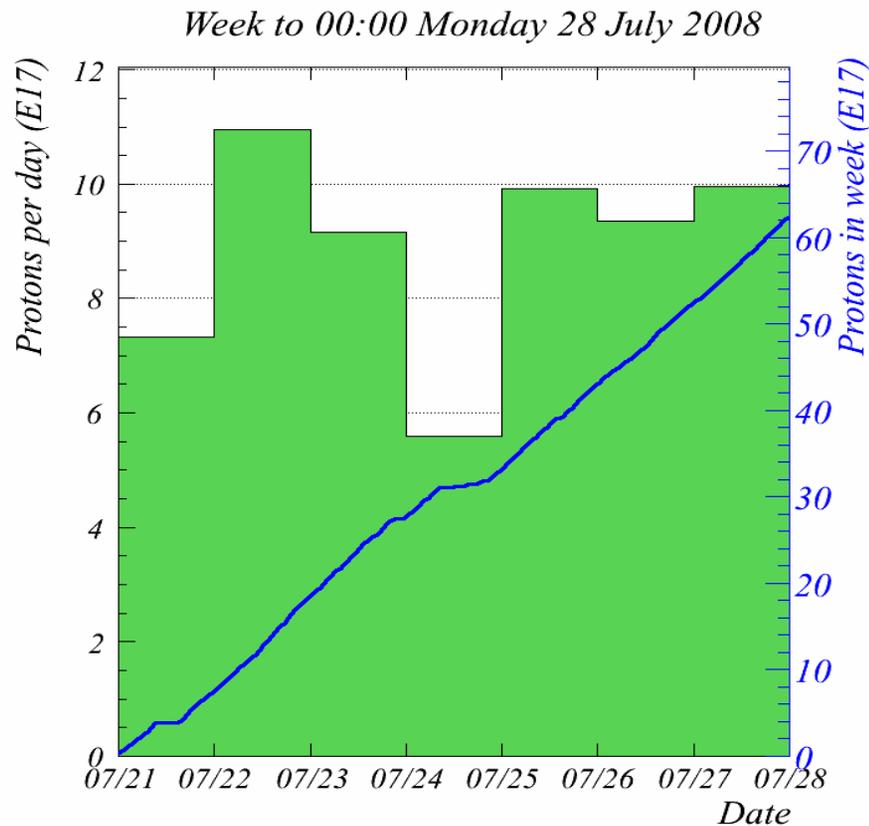


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Beam Operations 7/21/08 – 7/27/08

- Beam powers are higher than in the past
- Low protons on Thursday due to startup target scans

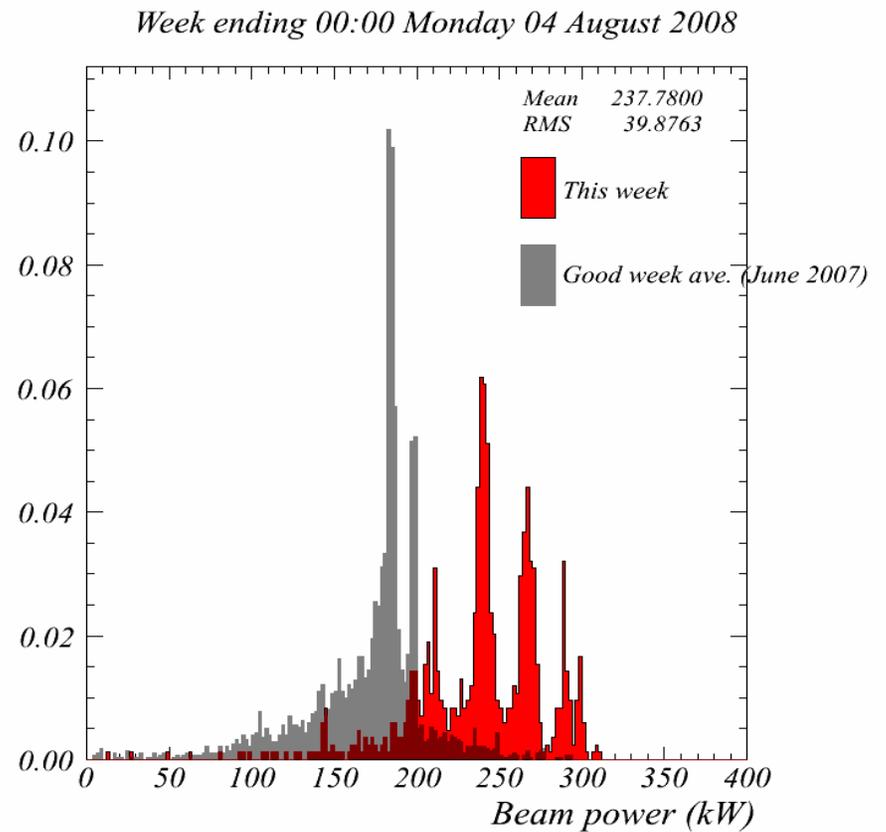
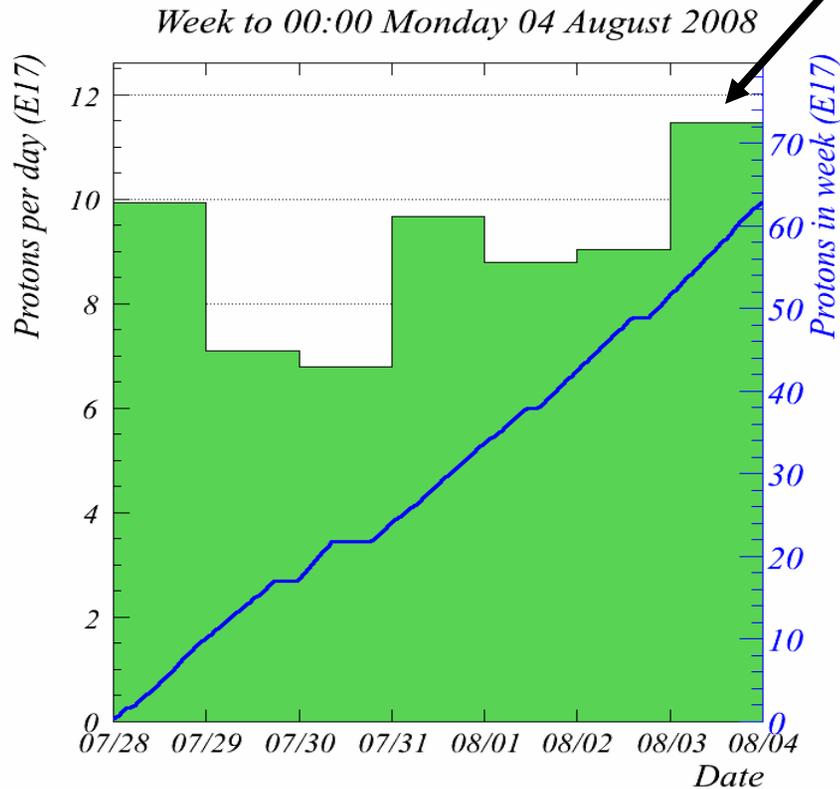




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Beam Operations 7/28/08 – 8/03/08

- Beam powers are higher than in the past
- **Record day on Sunday! 11.48E17 protons**



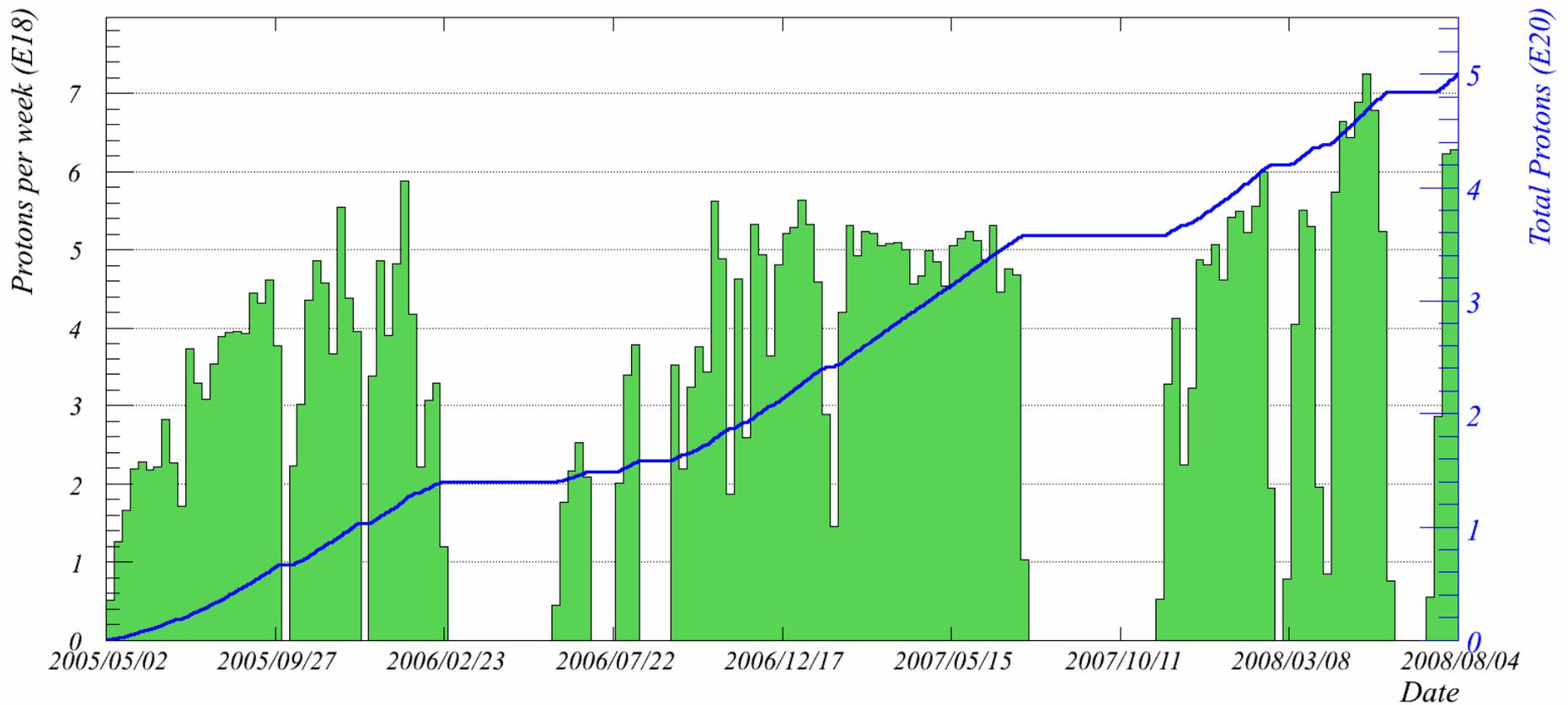


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- Total integrated protons have passed $5e20$!

Total NuMI protons to 00:00 Monday 04 August 2008



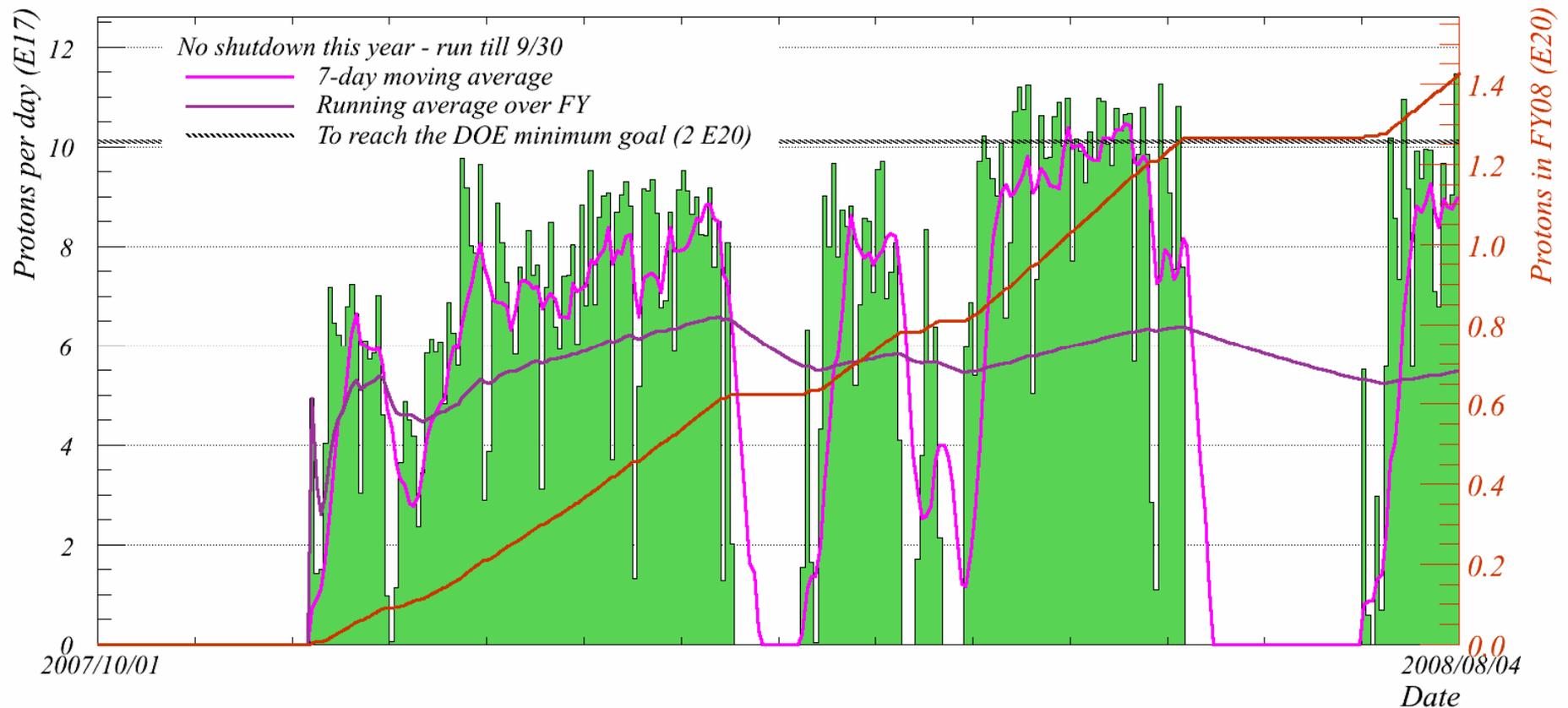


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- Fiscal year protons
 - Need all days to be $> 10e17$ to reach $2e20$ DOE goal

FY08 NuMI protons to 00:00 Monday 04 August 2008





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NEAR DETECTOR:

- 7/21/08 – 7/27/08: 99.6% livetime for beam
- 7/28/08 – 8/3/08: 97.7% livetime for beam
- Last Thursday, topping off of LCW dropped the resistivity below limits
 - Near Detector magnet coil was off for a few hours, resulting in lower livetime
 - Drop in resistivity was more than usual - investigating



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FAR DETECTOR:

- 7/21/08 – 7/27/08: 97.4% livetime for beam (*preliminary*)
 - 99.7% wallclock livetime
- 7/28/08 – 8/3/08: 99.9% livetime for beam
 - 99.9% wallclock livetime
- Power company work took down power to Soudan surface buildings
 - Network and chiller affected
 - Downtime was short enough that we came back quicker than anticipated



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New Horn 1:

- Horn spare (PH01-2) installed in July
- Also involved removal and replacement of target (NT-02)
- Using $2.74e18$ POT of new data, we have compared the spectrum to earlier in the run
- Preliminary comparison reassuringly shows good comparison between runs

