



NuMI-MINOS Status Report — Tingjun Yang

- FAR DETECTOR:

- 99.7% live time (wall clock)
- Everything was running pretty smooth

- NEAR DETECTOR:

- Up 95% of the time (pot weighted)
 - Some electronics maintenance
 - Work on the sump pump which cools MINOS and NuMI absorber
 - The pump replacement was done on Wednesday, and stirred up the water enough we didn't want to risk the heat exchangers, so NuMI beam was delayed by a couple hours while the water cleared.
 - The contactor on the ND coil reversing switch had been damaged by overheating, the contactor was repaired on Thursday
 - The coil reversing switch repair on Thursday was the big uptime sink (but only affected the ND, not the FD or the beam)



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- NuMI Beam Summary (Sam Childress)
 - Downtime on Tuesday due to MI access (MIRF6)
 - Downtime on Wednesday
 - TeV access (involves work in F sector, MI cannot run for safety reasons).
 - Cooling water problem in MINOS hall which affects the absorber.
 - For much of the time, we had steady running at 8 Booster Turns for the 9 NuMI Batches.



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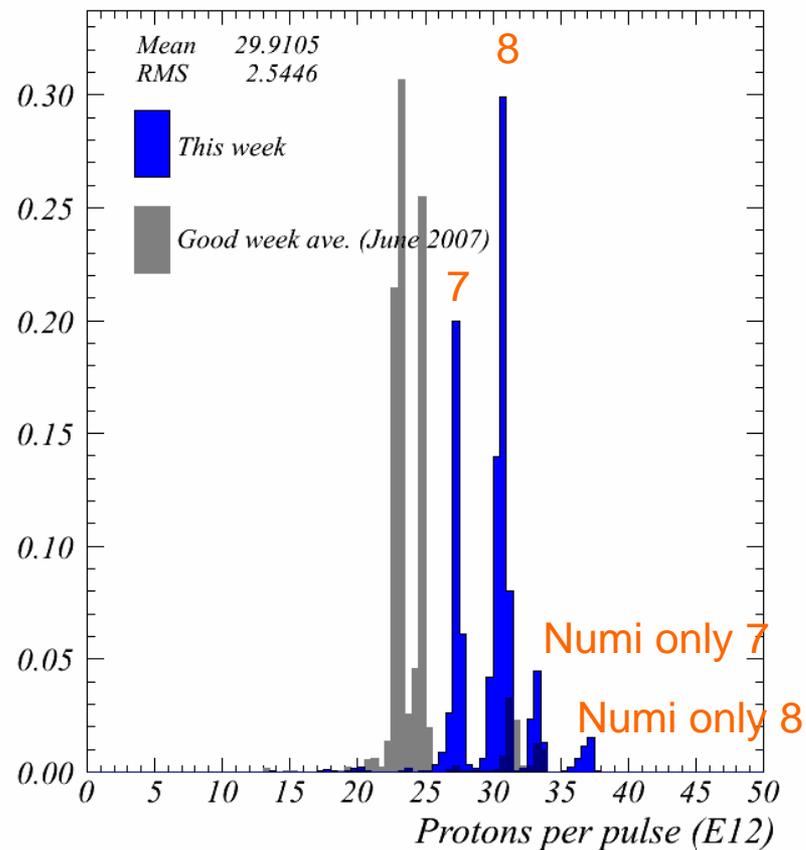
- Protons/pulse:

- ~ 27×10^{12} : 2+9 7-turns mixed
- ~ 31×10^{12} : 2+9 8-turns mixed
- ~ 33×10^{12} : NuMI only (7-turns)
- ~ 38×10^{12} : NuMI only (8-turns)

- Best Week Yet

- 2.99e13 Protons Per Pulse
- Previous week (2.85e13)

Week ending 00:00 Monday 05 May 2008

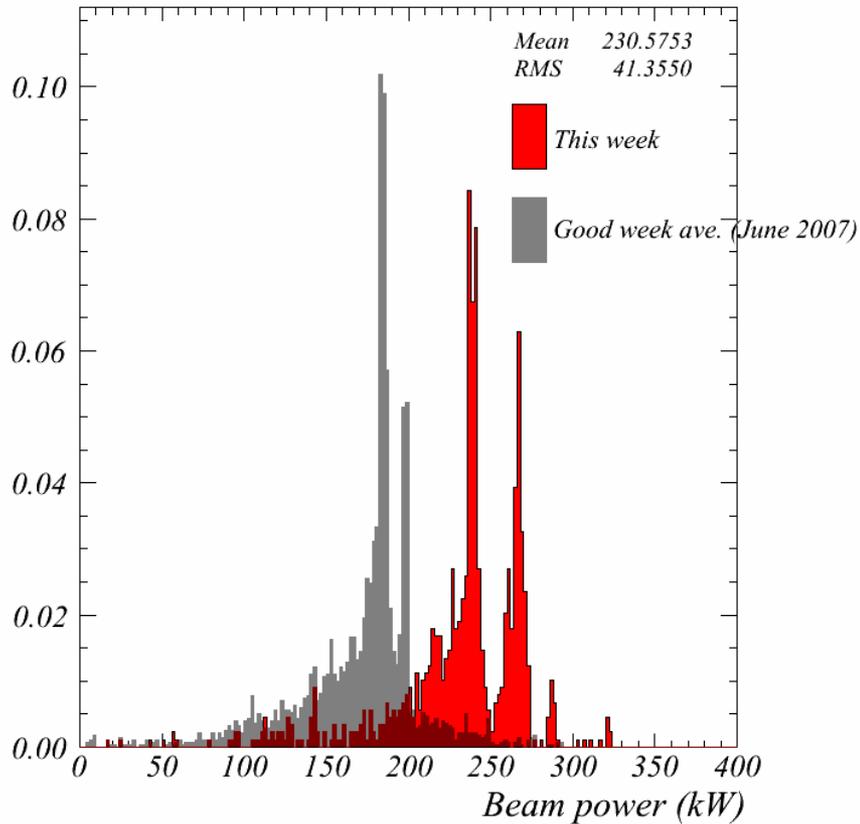


Protons Per Pulse



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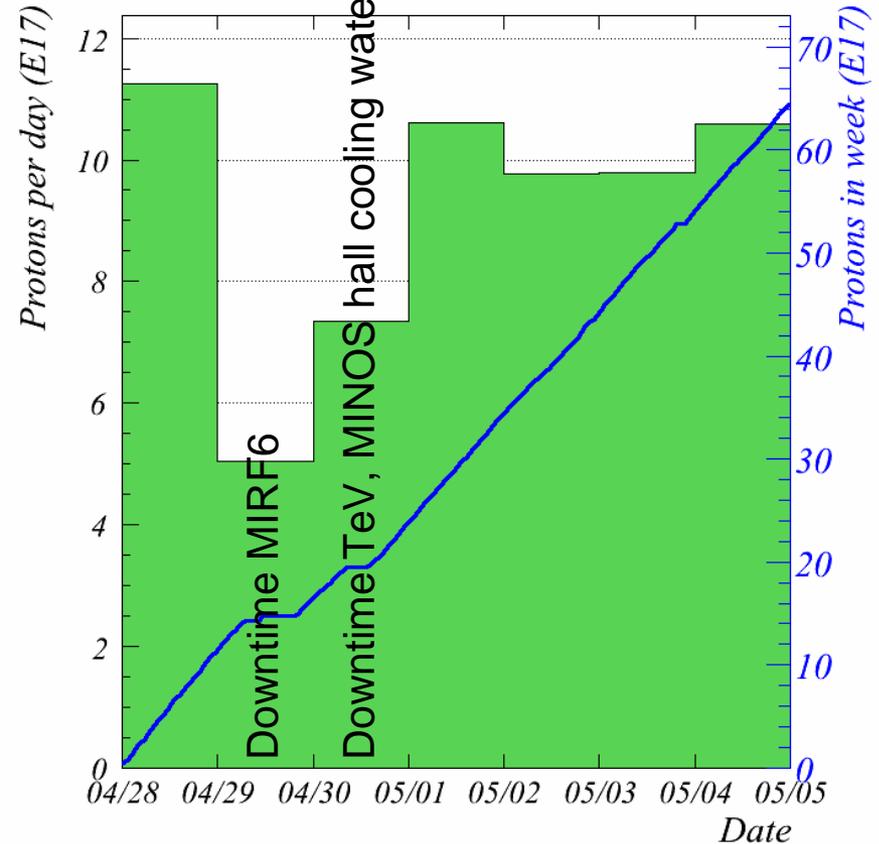
Week ending 00:00 Monday 05 May 2008



Beam Power

Ties for best week
230.6kW (same as previous week)

Week to 00:00 Monday 05 May 2008



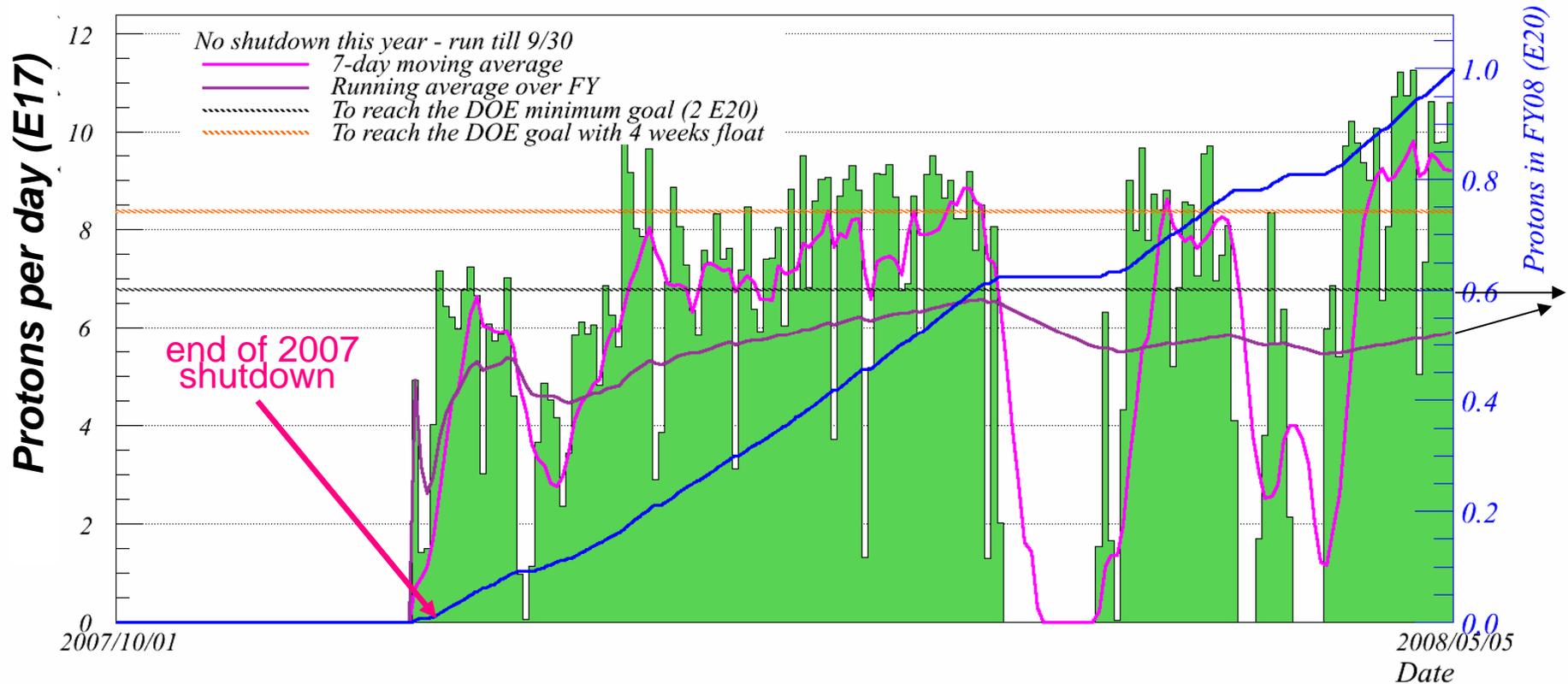
Protons Per Day

2nd best week
6.44E18 POT (previous week 6.64E18)



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FY08 NuMI protons to 00:00 Monday 05 May 2008

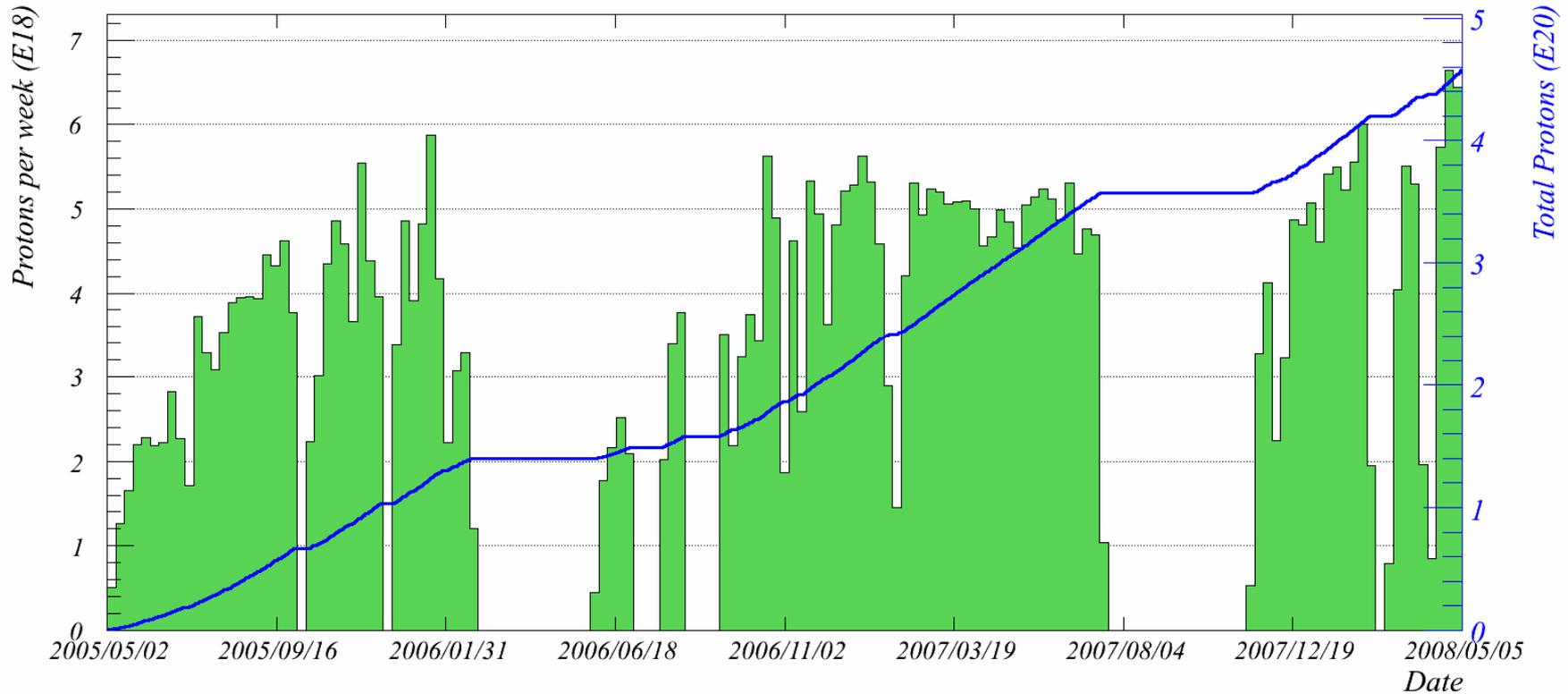


- Weekly Avg. needed to meet 2E20 pot by 30 September (*no shutdown!*)
- Same, but with 4-weeks float
- 7-day running average
- Running average over FY



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Total NuMI protons to 00:00 Monday 05 May 2008



4.590 E 20 total POT to NuMI

↑
end of 2007
shutdown