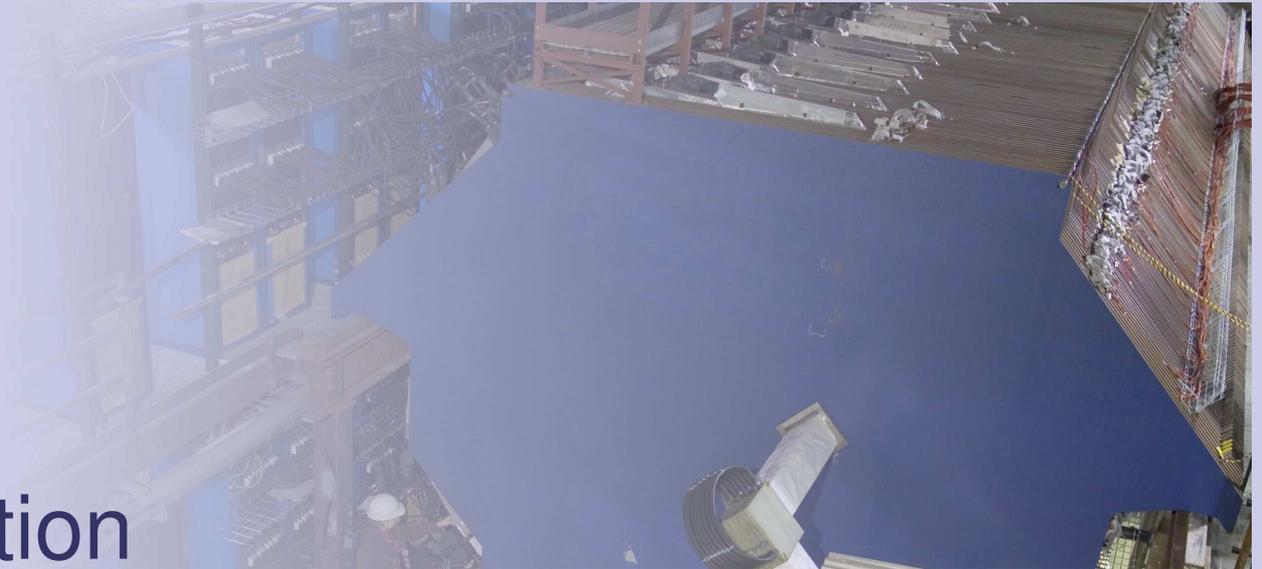
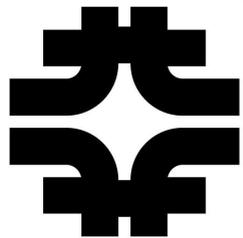


NuMI-MINOS status report

Phil Adamson
Fermilab Accelerator Division

for the
MINOS collaboration

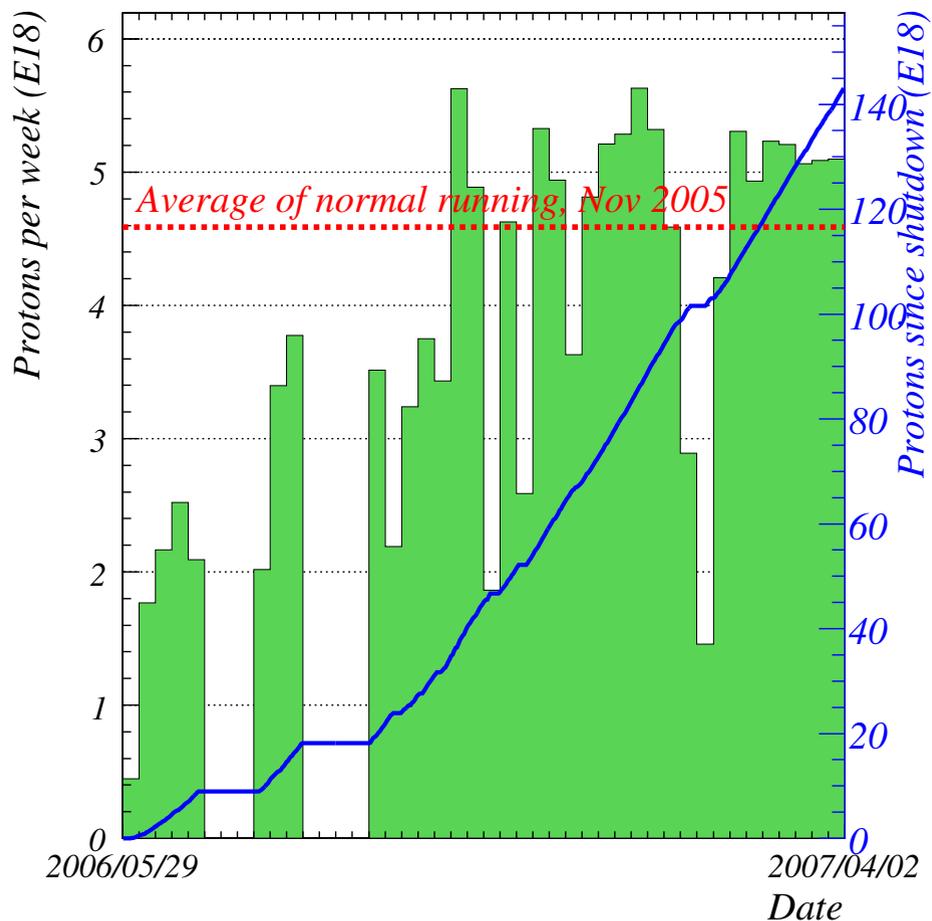




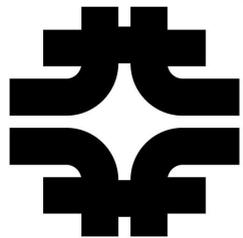
This week

P. Adamson
Accelerator Division
Fermilab

Weekly protons to 00:00 Monday 02 April 2007



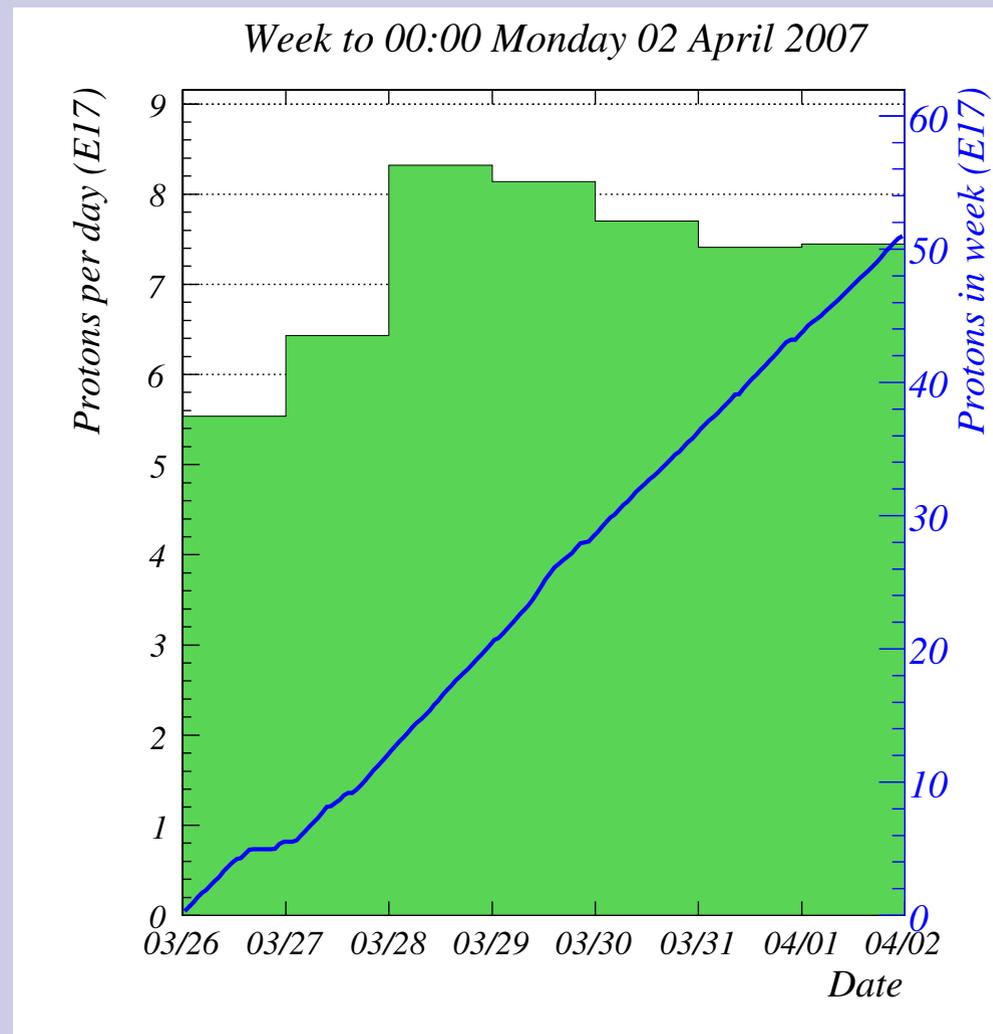
- ▷ 5.1×10^{18} protons this week
- ▷ Continues our weeks of good steady running
- ▷ Detector uptimes 98.6% (near) and 99.9% (far)
- ▷ This week, saw the NuMI target power in mixed-mode operation sneak above 200kW (vs more typical 195kW)
 - ⇒ Booster delivering 5×10^{12} protons per pulse.
 - ⇒ Probably can't squeeze too much more through Booster
- ▷ Remaining candidates for more POT
 - ⇒ Decrease downtime
 - ⇒ 2.2s cycle spacing
 - ⇒ 11-batch slip-stacking

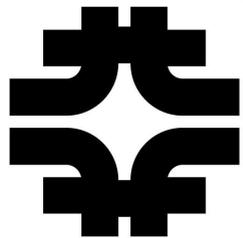


This week

P. Adamson
Accelerator Division
Fermilab

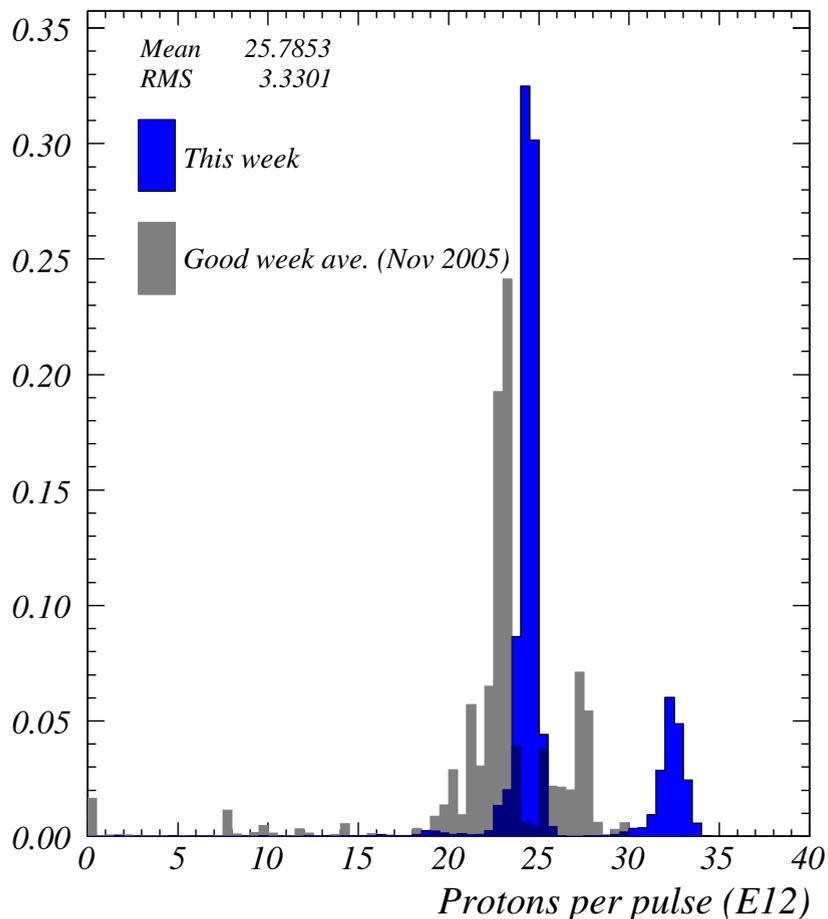
- ▶ About 19 hours total beam downtime this week (on the high side of normal)
- ▶ Major contributors:
 - ⇒ LRF4 PA replacement
 - ⇒ NuMI V118 power supply problem
 - ⇒ H- source trips
- ▶ LCW leak found on spare horn power supply. Don't see any more leaks at the moment.
- ▶ At about 3:36 this morning, MINOS sump pump #2 died. It will be replaced on Wednesday. We have 3 electric pumps, of which two are live at a time, and one is sufficient to keep the water out.



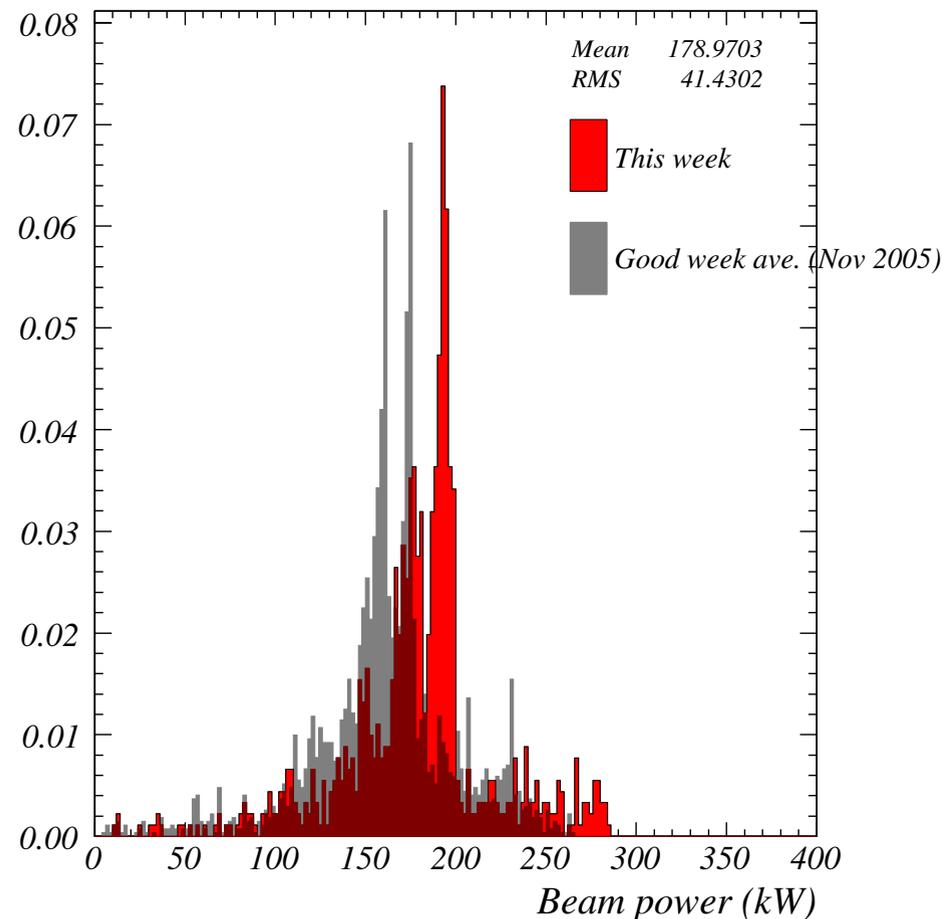


In detail...

Week ending 00:00 Monday 02 April 2007



Week ending 00:00 Monday 02 April 2007



- ▶ Good per-pulse intensity from booster (→ 25E12 ppp, 200 kW)
- ▶ Per-pulse intensity mostly stable.