



# NuMI-MINOS Status Report — Sam Childress

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- FAR DETECTOR:

- 99.5% live time
- April 3: Annual lab evacuation fire drill to the mine rescue chamber - went well
- Last night: 2 feet of snow in Soudan (it's Spring!). Power flickered, but detector took data uninterrupted.

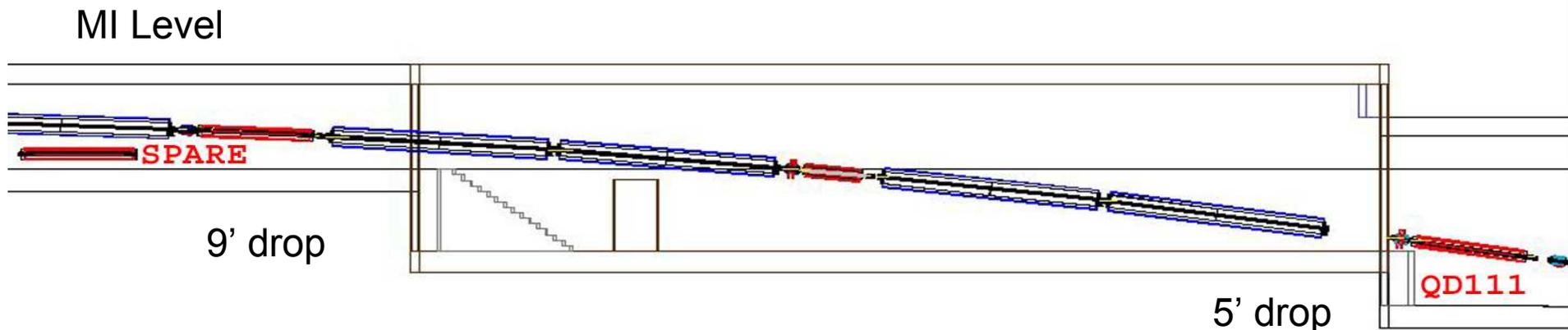
- NEAR DETECTOR:

- Up significantly > 90% of beam time (Don't have exact number yet because of database problem)
- No changes this week



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- QD111 NuMI primary beam magnet replacement
  - Magnet failed Mar. 31 (internal turn to turn shorts) when re-powered after Main Injector vacuum system downtime.
  - In Main Injector interlock system; at the end of the NuMI stub down 2 levels from MI.
- A very challenging effort, the first time needed in this tunnel
  - Magnets rigged using dual set of monorail hoists - designed for this, but clearances very tight





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All Exp Mtg  
Apr 07, 2008

- Replacement initiated Wed. Apr. 2 ~ 0800
  - Successfully completed just before 1400 on Thurs. Apr. 3 matching the 30 hour estimate. Beam established ~ 1800.
  - **MANY THANKS** to all involved! AD/ MSD team led by Mike Petkus, EE support, Alignment, TD, and many others
- **A fantastic job for a very challenging effort !!**





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- QD111 transport along V108 down-bend
- **VERY** tight quarters

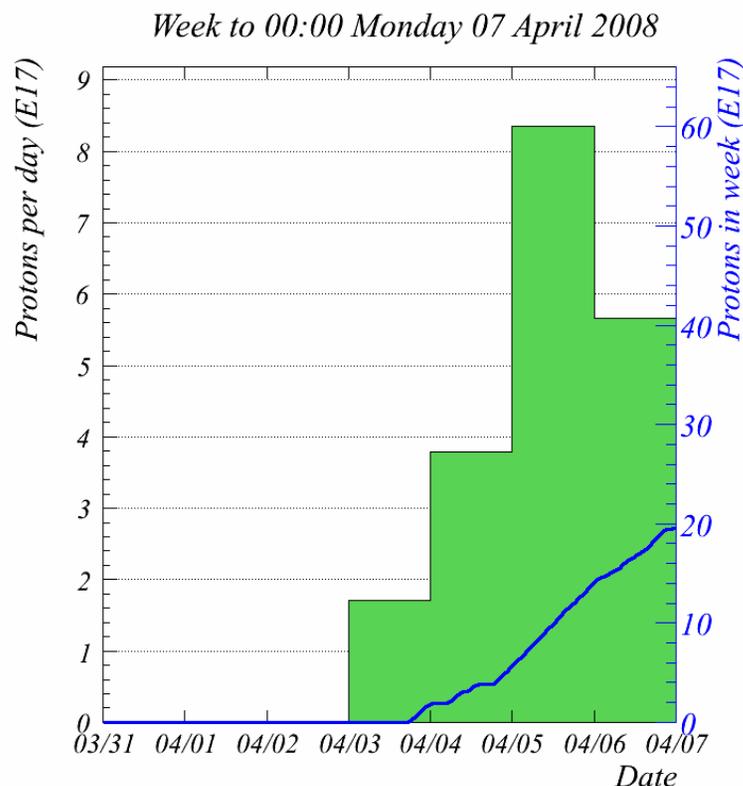




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- 1.97 E18 POT for week
  - Normal 5.6 E18
- Reduced intensity thru weekend
  - Booster MP02, MI RF
- Today back to normal 225-230 kW (7 turns)
- Look toward steady beam & progress toward 8 turns to NuMI (255 – 260 kW)

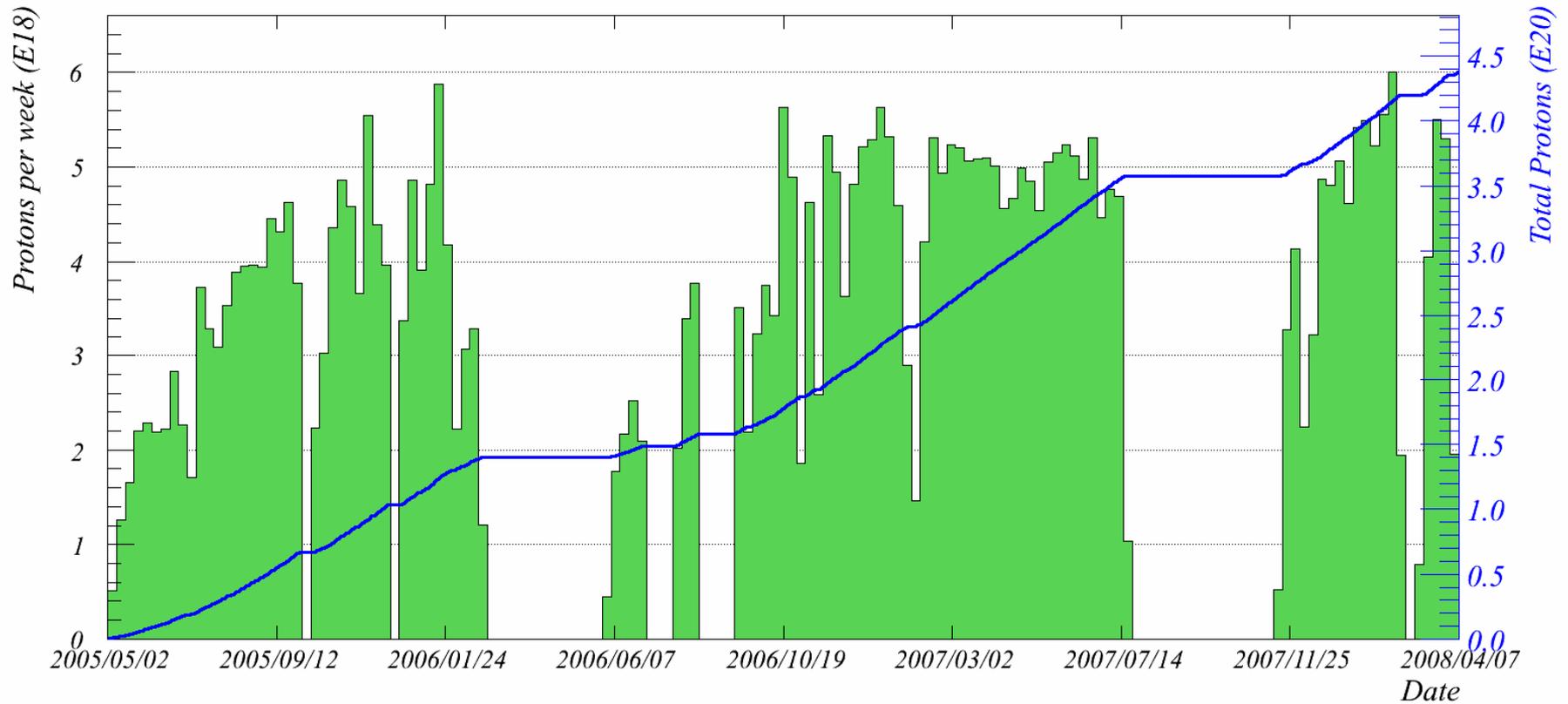




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All Exp Mtg  
Apr 07, 2008

Total NuMI protons to 00:00 Monday 07 April 2008



4.394 E 20 total POT to NuMI

↑  
end of 2007  
shutdown