NuMI-MINOS Status Report – Alec Habig

- FAR DETECTOR: Rik Gran
- ≥99.8% livetime last week
- Bad overhead lights replaced, cures persistent low-level noise problem
- NEAR DETECTOR: Alec Habig
- 94.8% live
- Several run crashes due to welding in MINOS Hall
  - Coordinating this work now that we know it's a problem
- One blown fuse on front-end rack PS costs a few hours
- LCW temp still high
  - Input sump water warmer + heat exchanger less efficient
  - Next 1.5 days downtime, will chemical flush heat exchanger, weld the (ready and staged) 2nd heat exchanger into the system
  - Running with 2°F higher coil trip point in meantime

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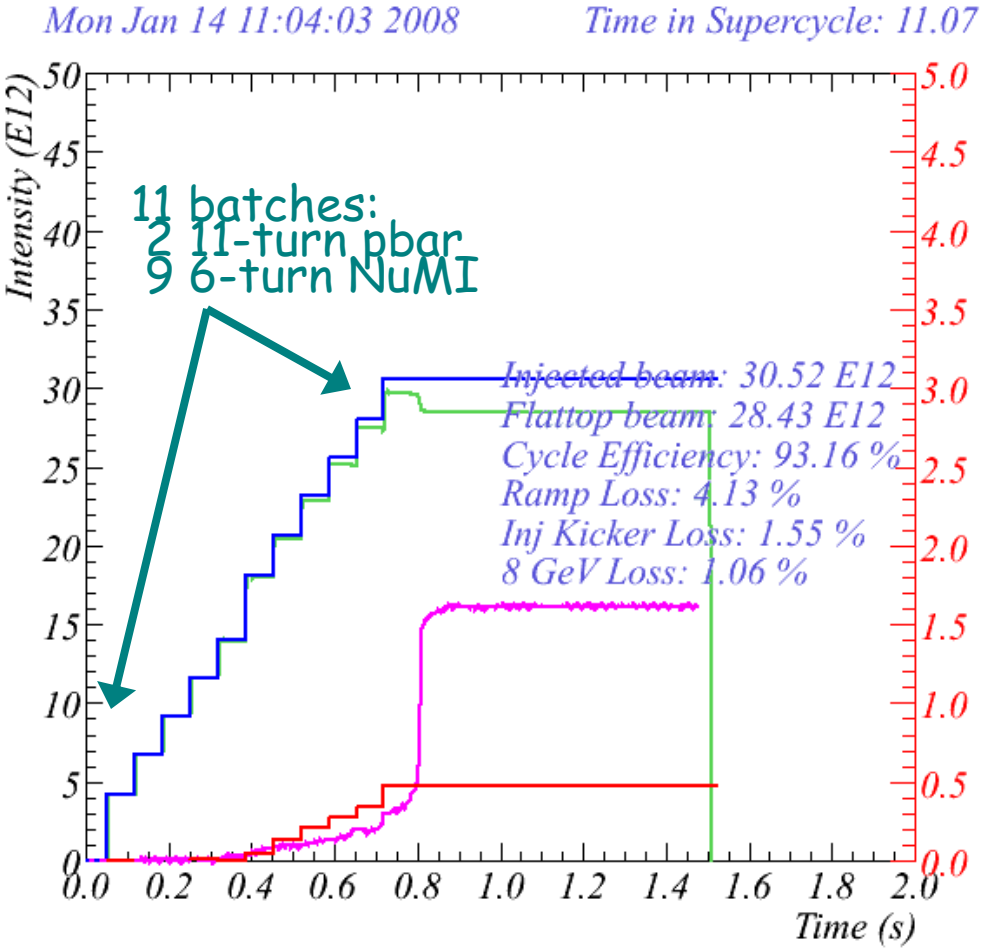
- BEAM SYSTEM STATUS: - Sam Childress

- 2+9 multi-batch slipstacking commissioned last Thursday!
  - Is now the standard operational mode (was 2+5)
  - With 7 booster turns running ~218kW in mixed-mode! (steady at 6 turns and 180-188kW over the weekend)
  - With practice and tuning this higher power should become standard
- Much thanks to AD from MINOS for getting this new capability online!



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- NuMI Target Hall Update: - Jim Hylen
- Horn2 leak update:
  - Leak isolated to one of two cooling lines for the inner conductor, getting worse slowly
  - Currently leak rate mandates refilling RAW tank once per day
    - Not a radiation issue at this rate
  - Engineering study under way to determine if valving off the offending line is a viable workaround if leak gets very large
  - Similar leaks in the past have been repairable, but at a cost of two+ weeks downtime (cooldown, shield block wrangling, etc)
    - Spare horn 2 will be available in a few weeks, just in case…

- Target hall Dehumidifier back online
  - Was a simple cracked fuse holder
  - Now working as designed

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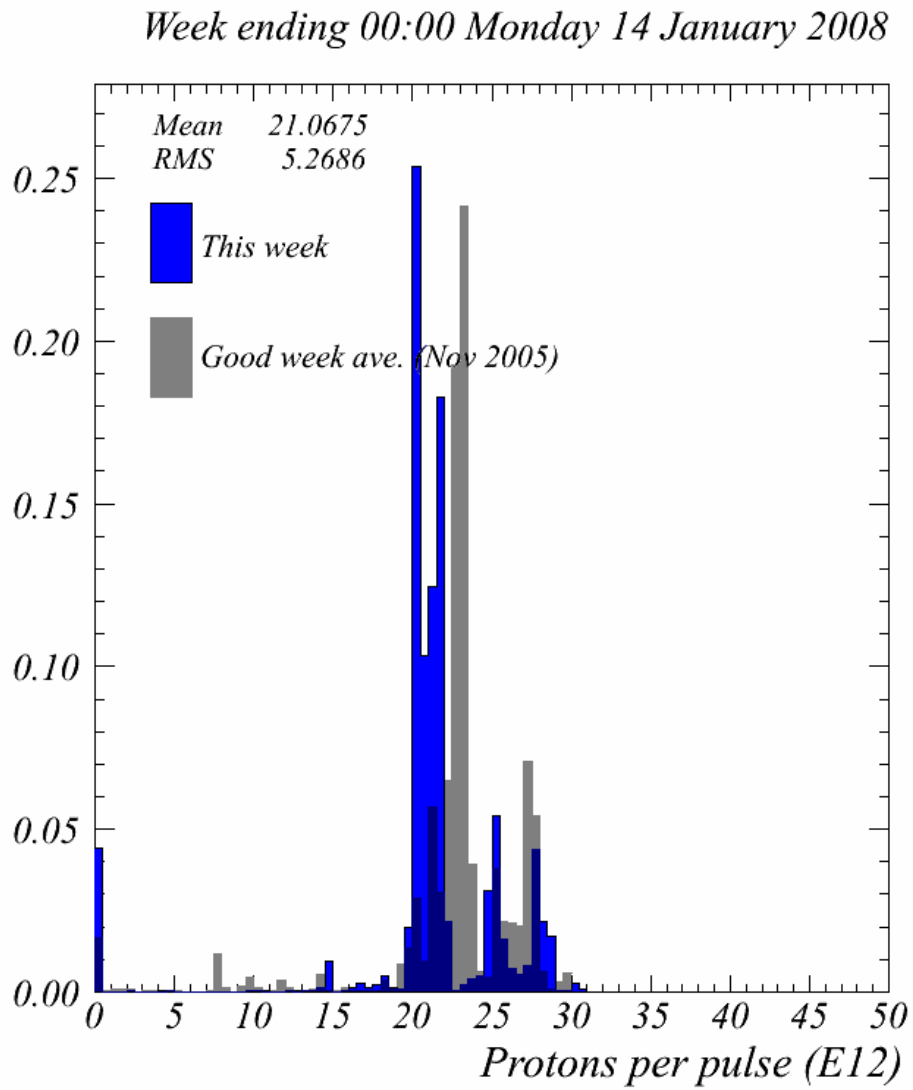
- Trimodal protons/pulse:
  - ~20x10^{12}: old 2+5 mixed mode and 2+9 mode with 6-turns
  - ~25x10^{12}: 2+9 7-turns mixed
  - ~28x10^{12}: NuMI only



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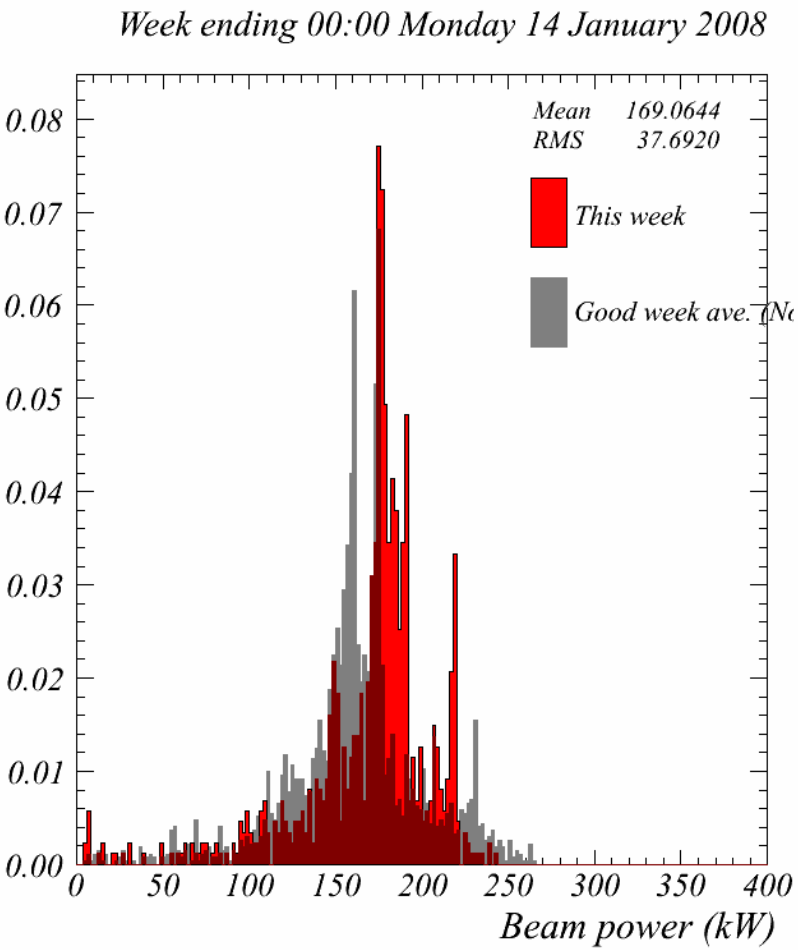

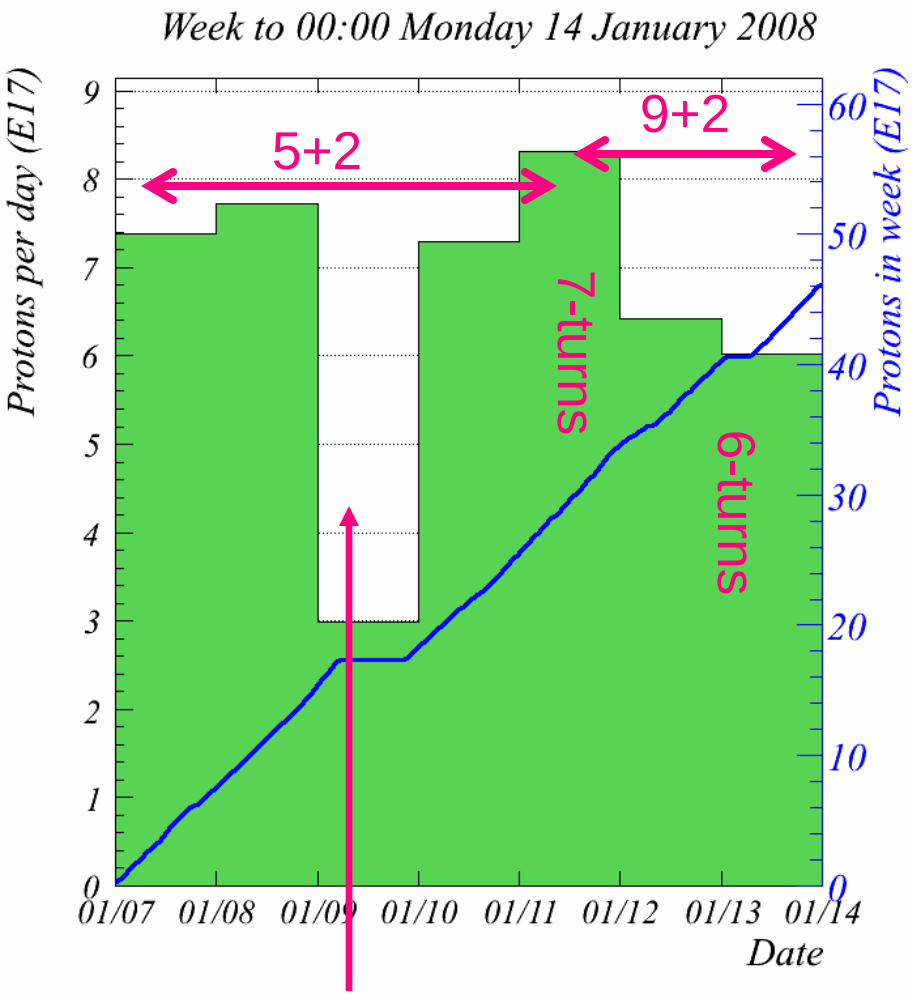

Wednesday MI/NuMI access

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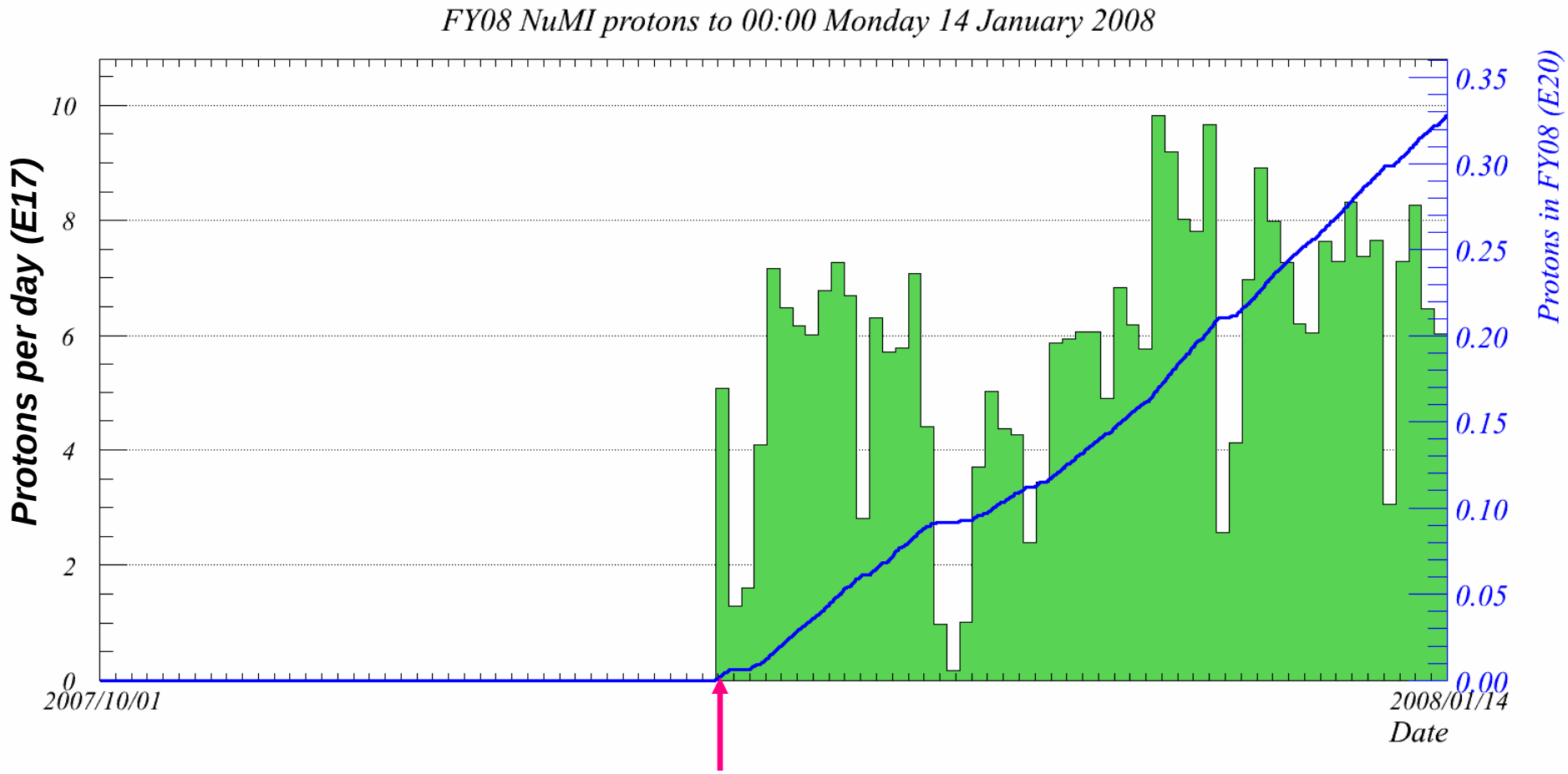

end of 2007 shutdown

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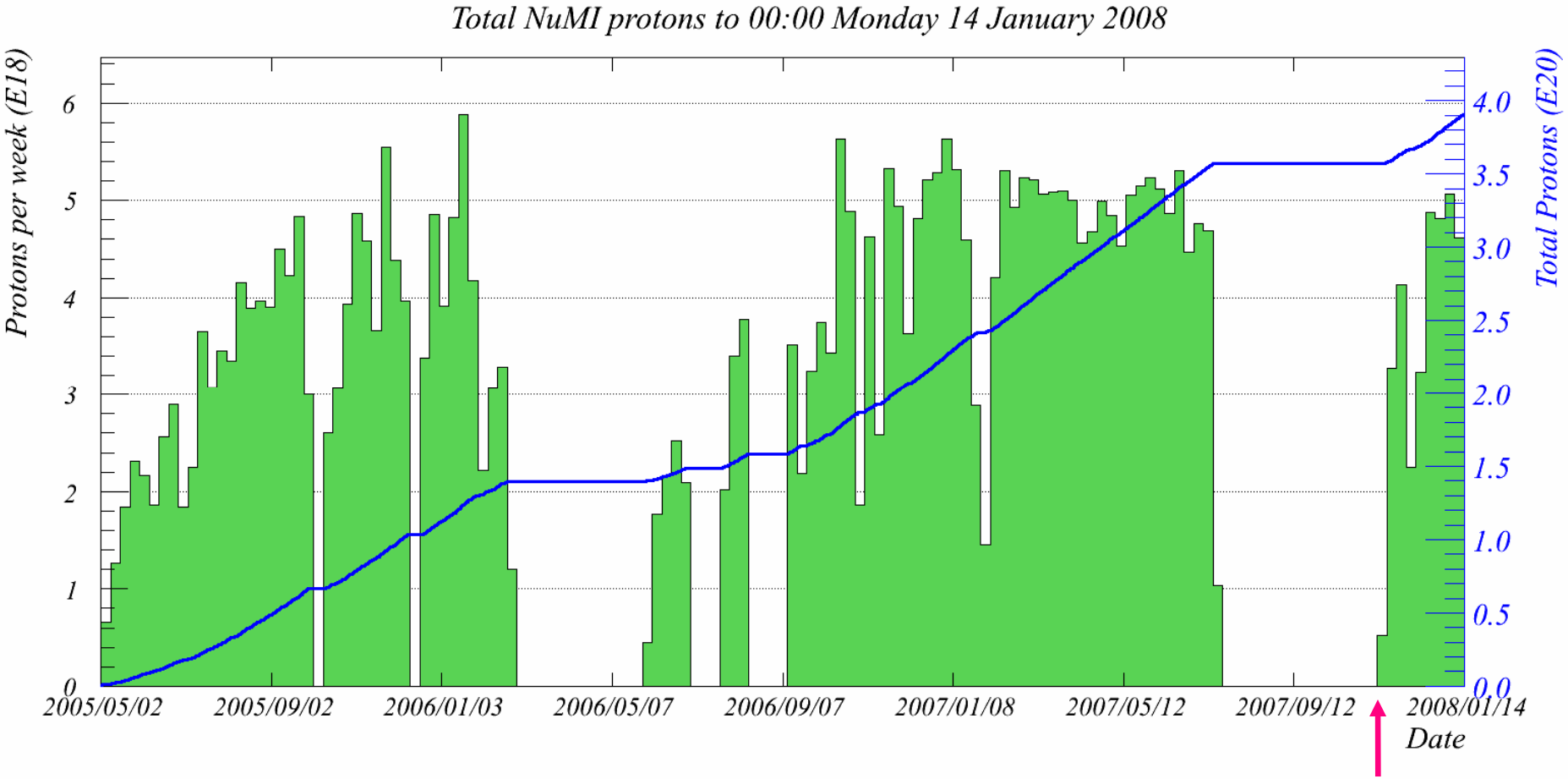

end of 2007 shutdown