NuMI-MINOS status report

Phil Adamson
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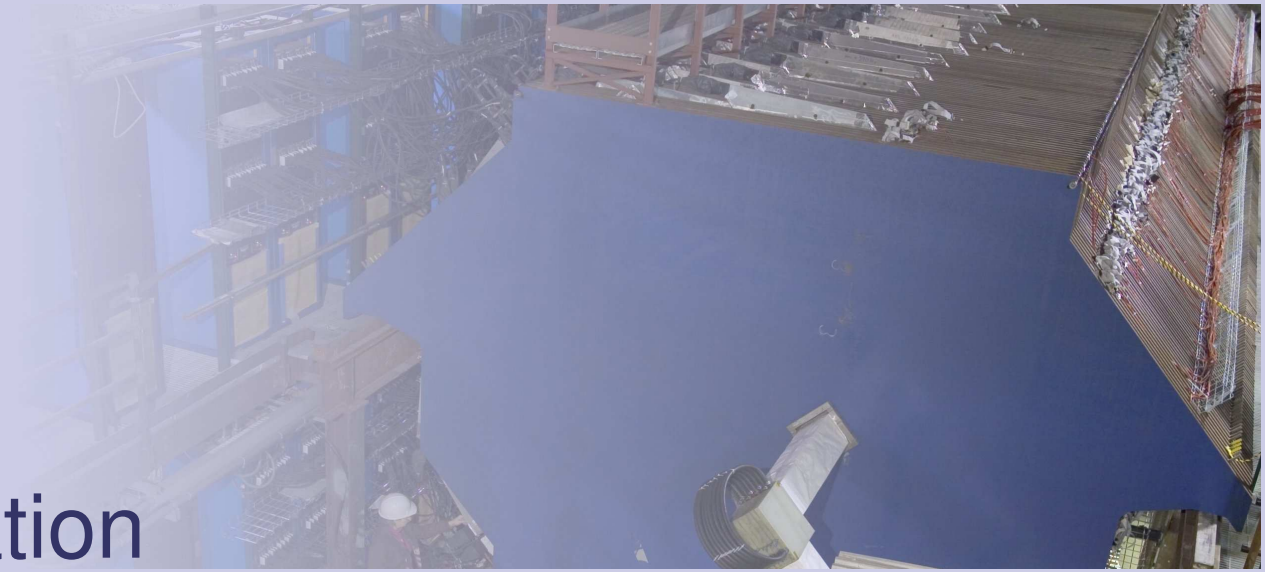

for the

MINOS collaboration

This week

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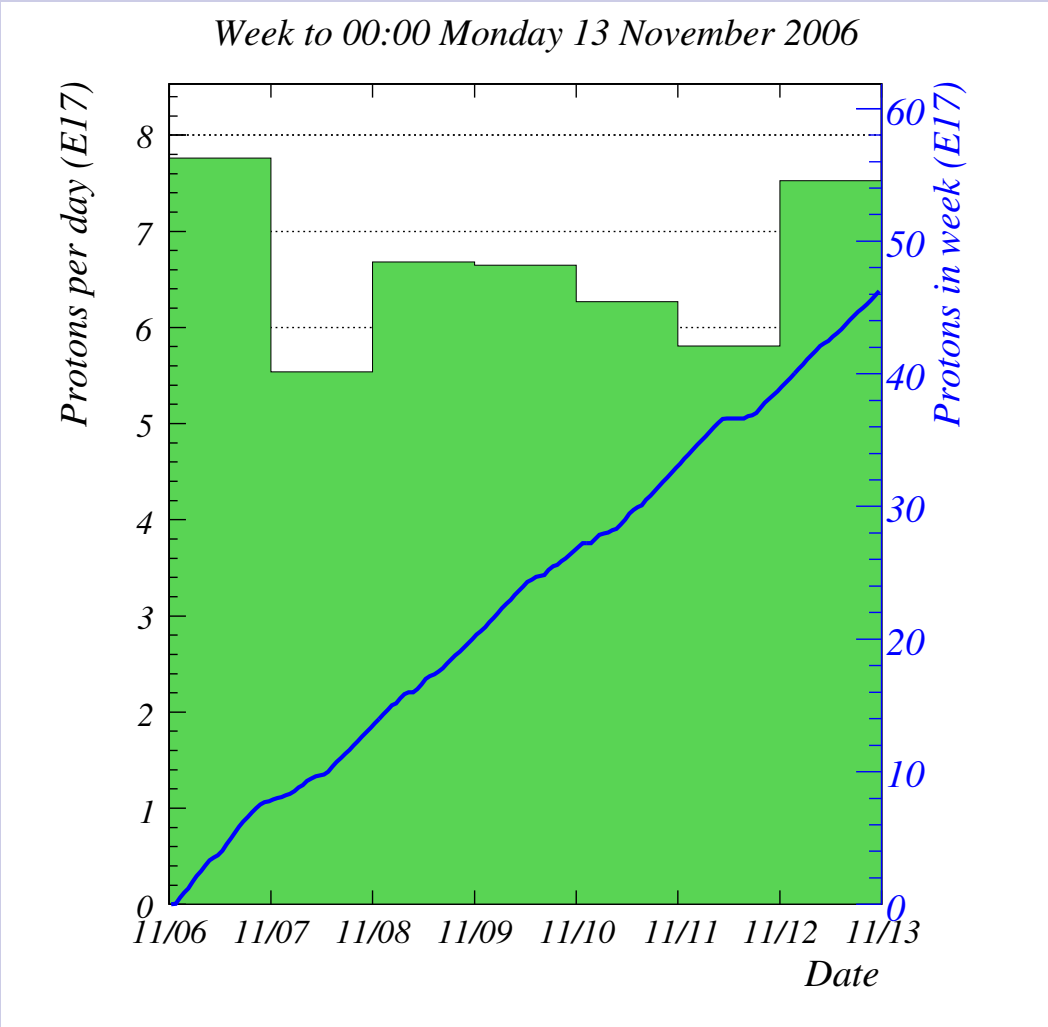

- Reasonable week overall
- 4.63×10^{18} protons
- Peak beam power exceeded 300kW this week, during pbar transfers to recycler
- Linac problems—week wasn't quite as good as it could have been
- Detectors running well
  - ⇒ Near detector 98.8% efficient
  - ⇒ Far detector 99.1% efficient
- Total protons since summer shutdown: 0.53×10^{20}

This week

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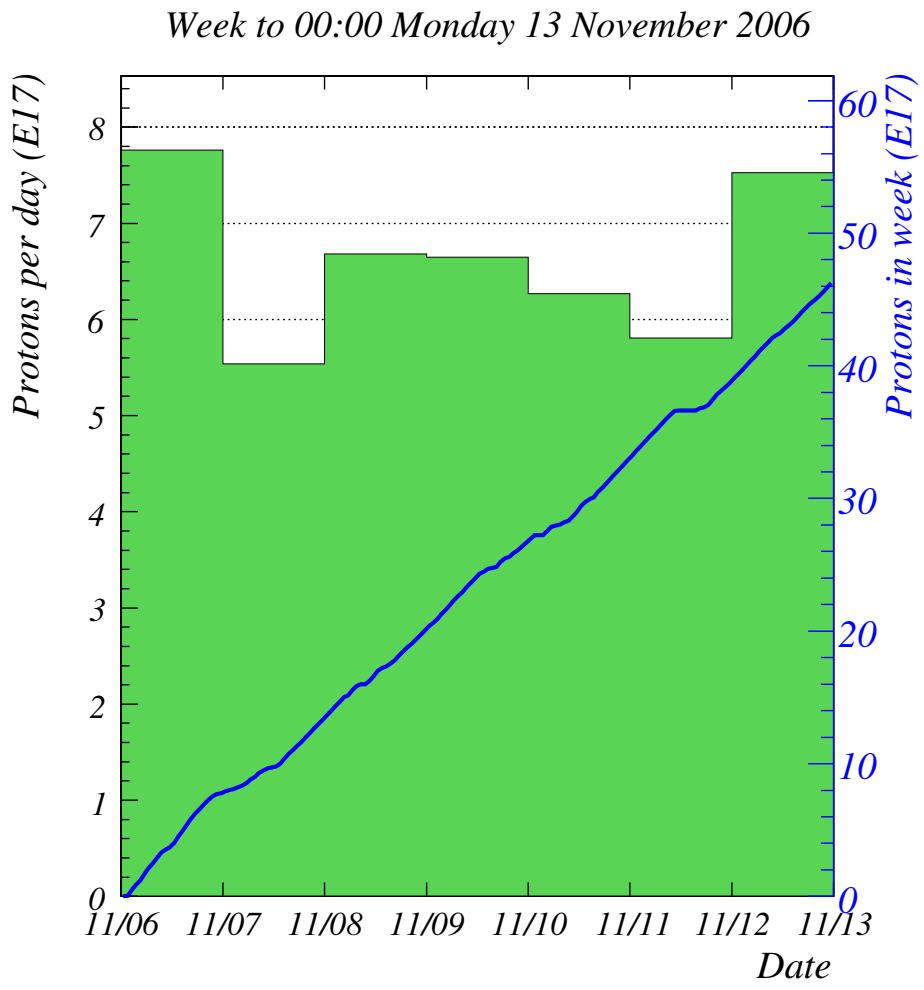

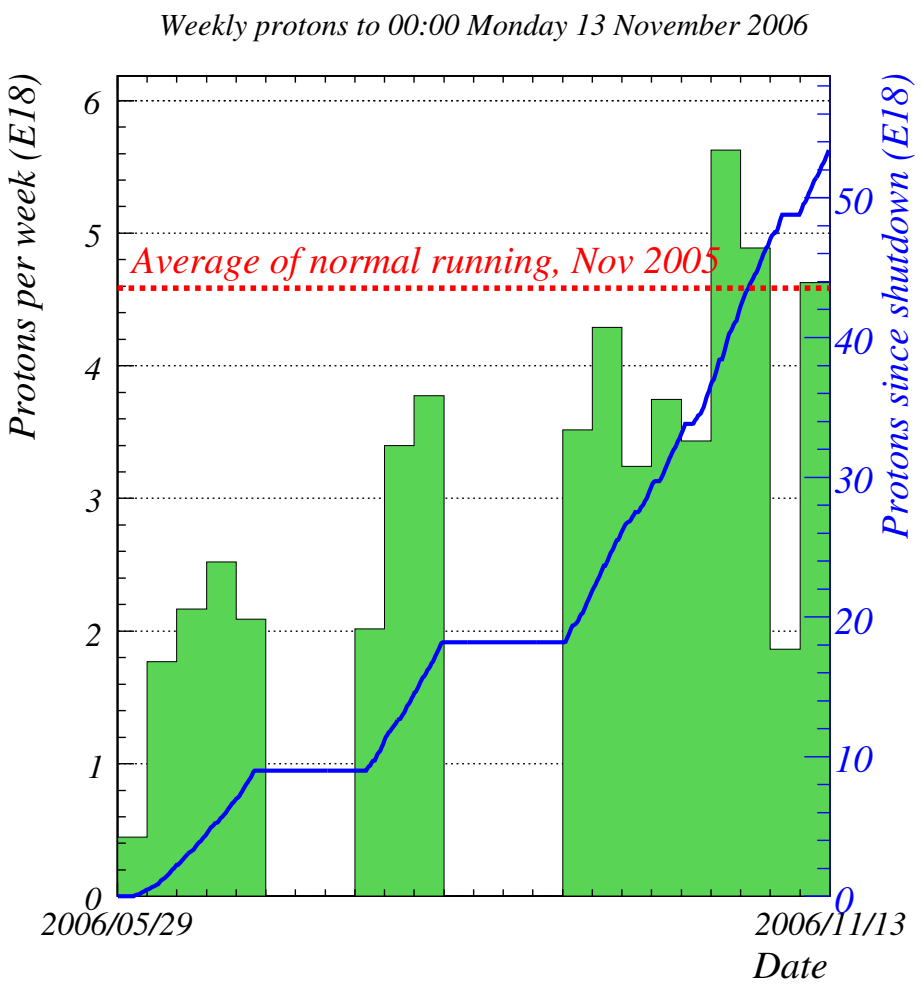

In detail...

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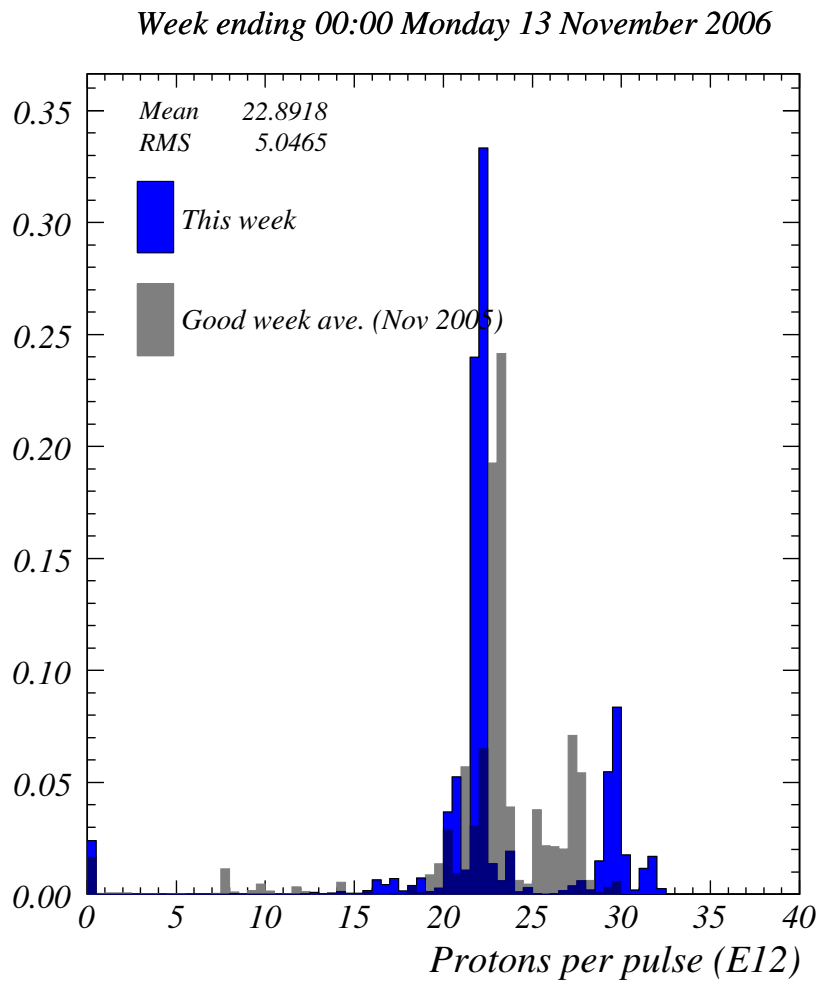

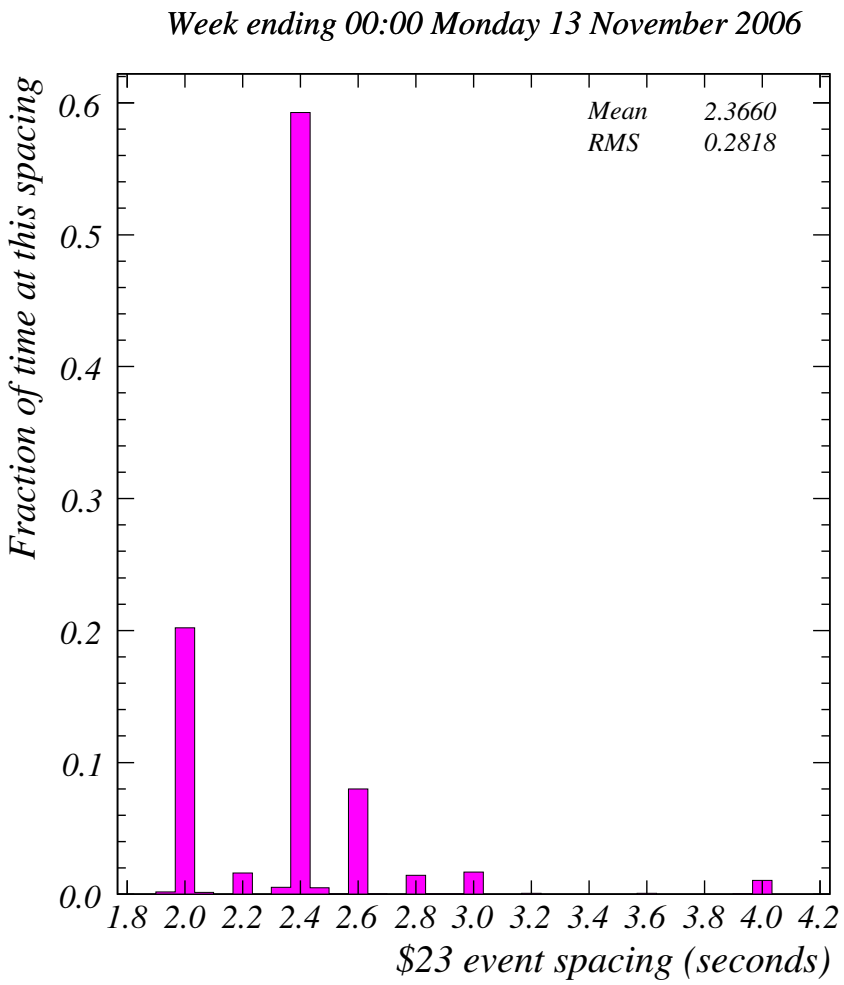

- Clear benefit from NuMI-only 2+5 mode
- Generally a booster turn below best
- Cycle spacing driven by pbar source
- Lots of time at 2.4s this week

In detail...

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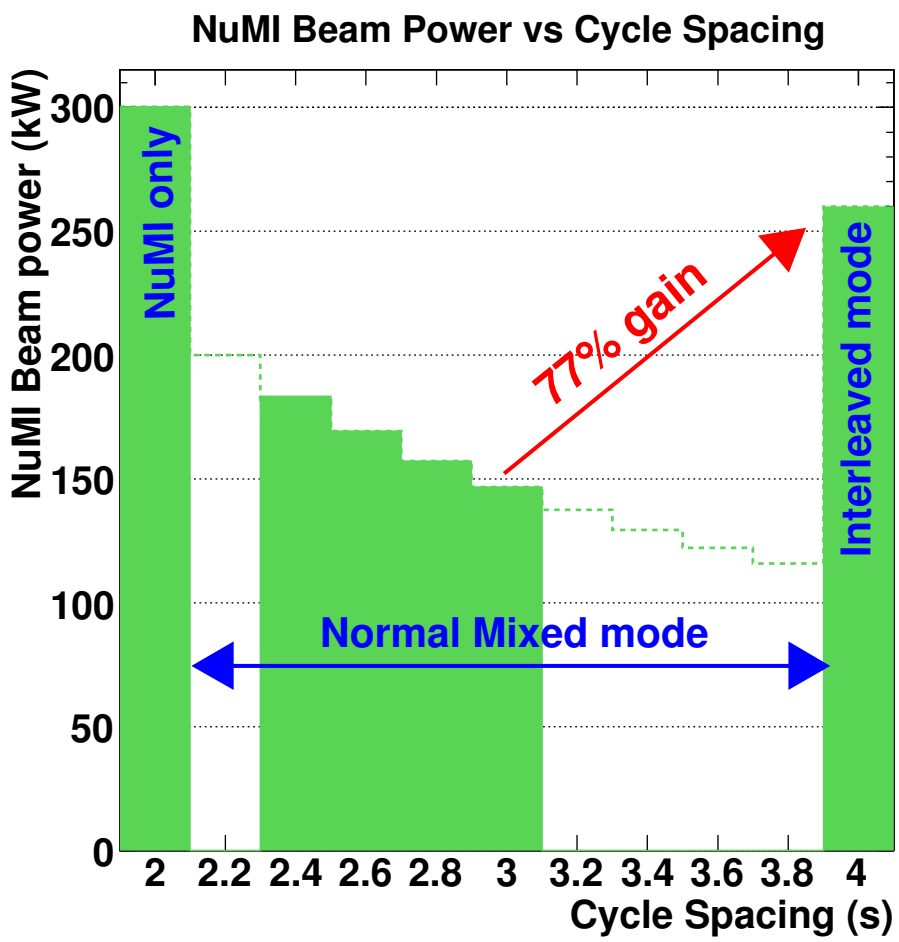

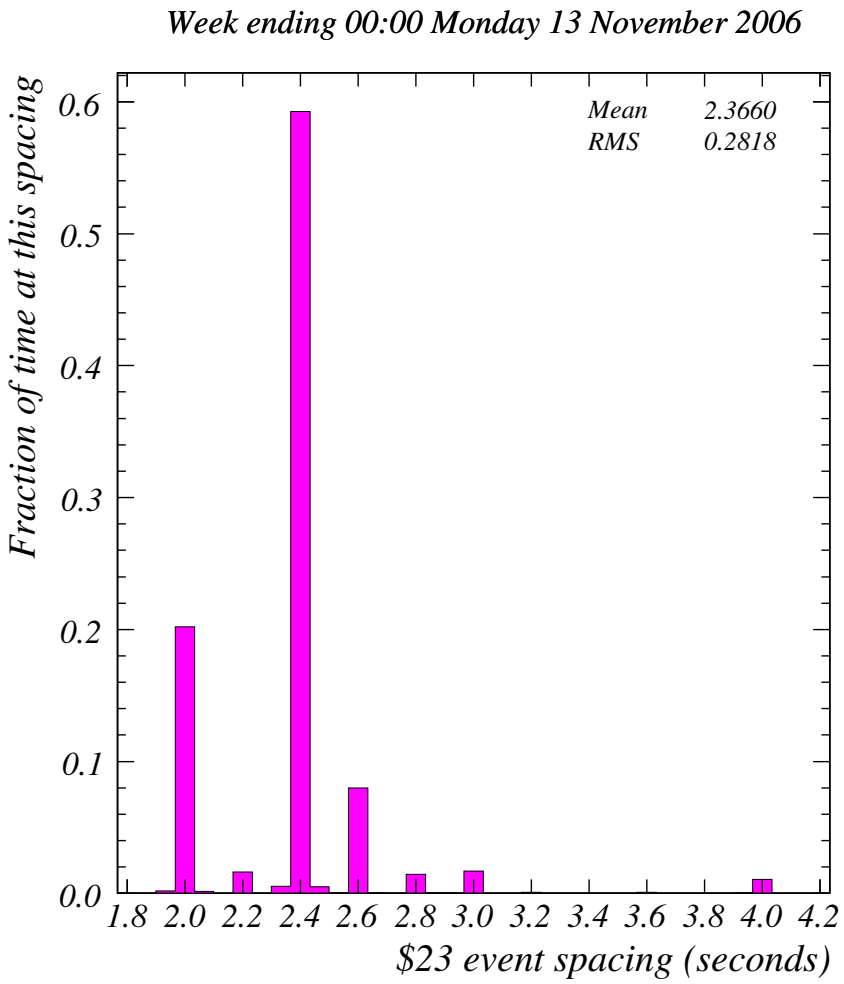

- Ideal performance, scaled to 300kW (but numbers are pretty realistic)
- Cycle spacing driven by pbar source
- Lots of time at 2.4s this week

A cloud on the horizon

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- The target hall chiller is dying
- Compressor will be replaced
- Work starts tomorrow morning
- Beam will return on Thursday or Friday