



Donatella Torretta & Adam Schreckenberger All Experimenters' Meeting June 27, 2016

AEM, June 27, 2016

Donatella Torretta

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Near Detector



DAQ



• One crash recovered within few minutes

Electronics/Detector

- One very hot channel in the spectrometer: we'll replace the Minder on Wednesday
- Intermittent LI issues:
 - Data Quality flags some data as bad (hence lower LiveTimes)
 - Investigation will take place during summer shutdown
 - LI HAS BEEN TURNED OFF on Saturday morning
 - Can be re-enable on demand any time



Far Detector





DAQ

No issues: ran well the whole week

Electronics/Detector

- No detector issues
- Running with only one Chiller
- Taking CI special runs during beam downtimes



MINOS+ Status



Start Date/Time 3/14/2016 00:00:00 3/21/2016 00:00:00 3/28/2016 00:00:00 4/4/2016 00:00:00 4/11/2016 00:00:00 4/18/2016 00:00:00 4/25/2016 00:00:00 5/2/2016 00:00:00 5/9/2016 00:00:00 5/16/2016 00:00:00 5/23/2016 00:00:00 5/30/2016 00:00:00 6/6/2016 00:00:00 6/13/2016 00:00:00 6/20/2016 00:00:00

End Date/Time
3/28/2016 00:00:00
3/28/016 00:00:00
4/4/2016 00:00:00
4/11/2016 00:00:00
4/18/2016 00:00:00
4/25/2016 00:00:00
05/02/2016 00:00:00
5/9/2016 00:00:00
5/16/2016 00:00:00
5/23/2016 00:00:00
5/30/2016 00:00:00
6/6/2016 00:00:00
6/13/2016 00:00:00
6/20/2016 00:00:00
6/27/2016 00:00:00

Near Detector		
POT Fraction	Live Time Fraction	
99.3%	96.5%	
99.7%	99.7%	
98.5%	96.5%	
92.4% <mark>(**)</mark>	91.9%(**)	
58%(**)	58%(**)	
99.6%	98.3%	
99.6%	99.7%	
99.5%	99.6%	
97.0%	94.3%	
94.4%	94.6%	
99.5%	99%	
98.8%	99%	
89.2% (**)	90.5%(**)	
88.3%(**)	89%(**)	
71%(**)	73%(**)	

Far Detector		
POT Fraction	Live Time Fraction	
99.8%	99.5%	
99.8%	99.8%	
98.3%	98.2%	
99.9%	97.9%	
99.8%	99.8%	
99.4%	99.5%	
98%	98%	
94.0%	93.8%	
99.9%	99.5%	
99.9%	99.9%	
99.9%	99.5%	
94% <mark>(&)</mark>	93.8% <mark>(&)</mark>	
99.9%	99.5%	
99.7%	99.7%	
99.6%	99.4%	

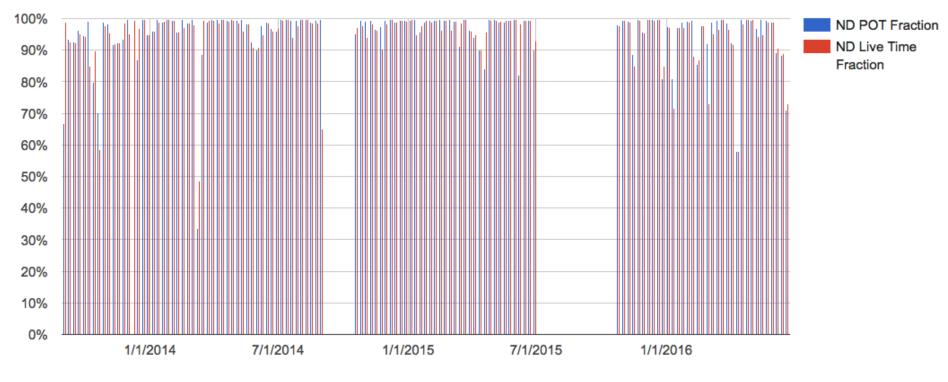
(**) LI issues (&) Crate 0 off



MINOS+ ND Status



ND POT fraction and Live Time Fraction



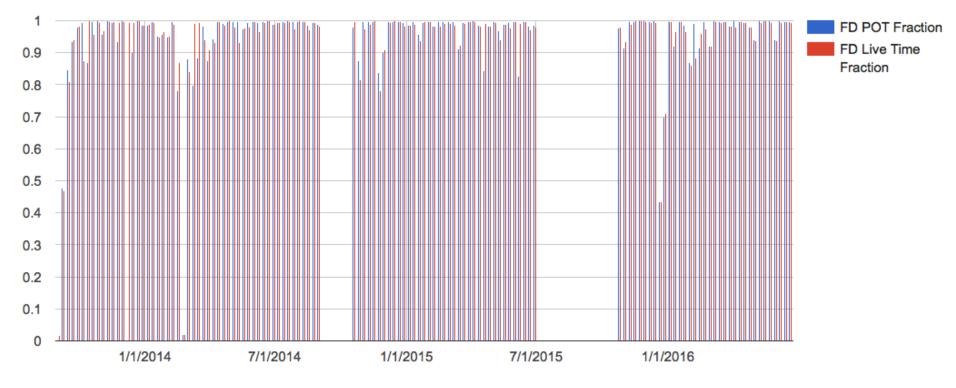
Start Date



MINOS+ FD Status



FD POT Fraction and Live Time Fraction



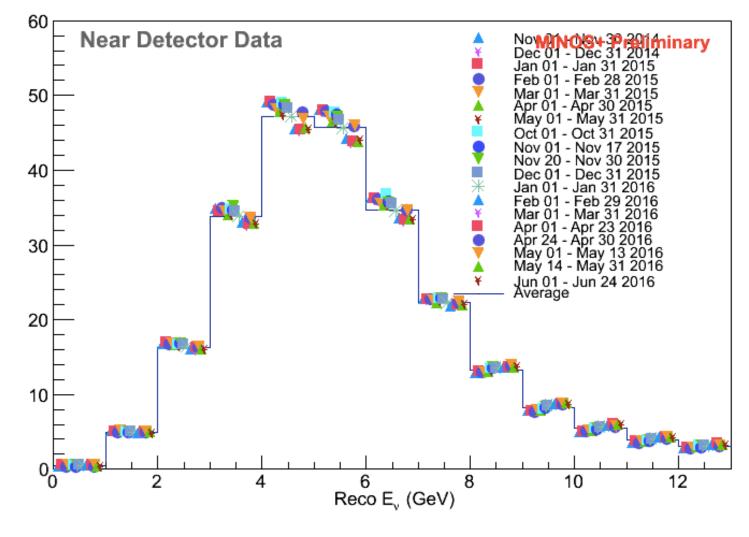




Energy Spectrum



Neutrino Energy Spectrum Stability (PQ and NQ)

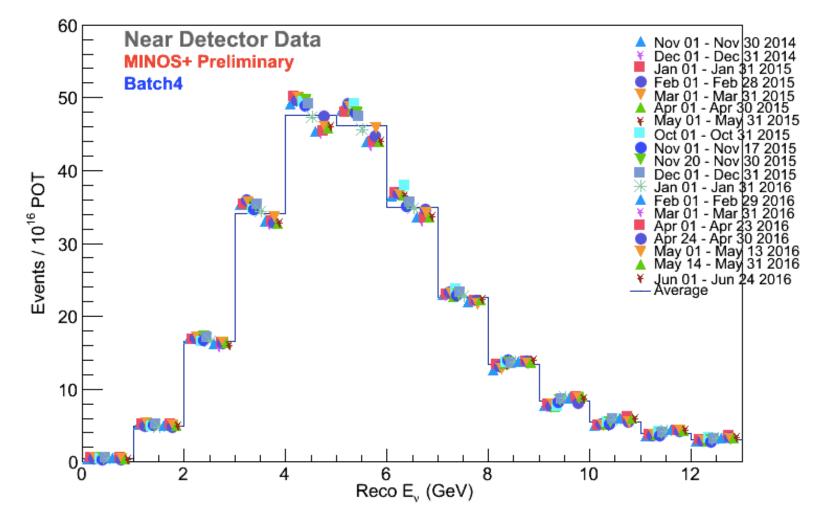




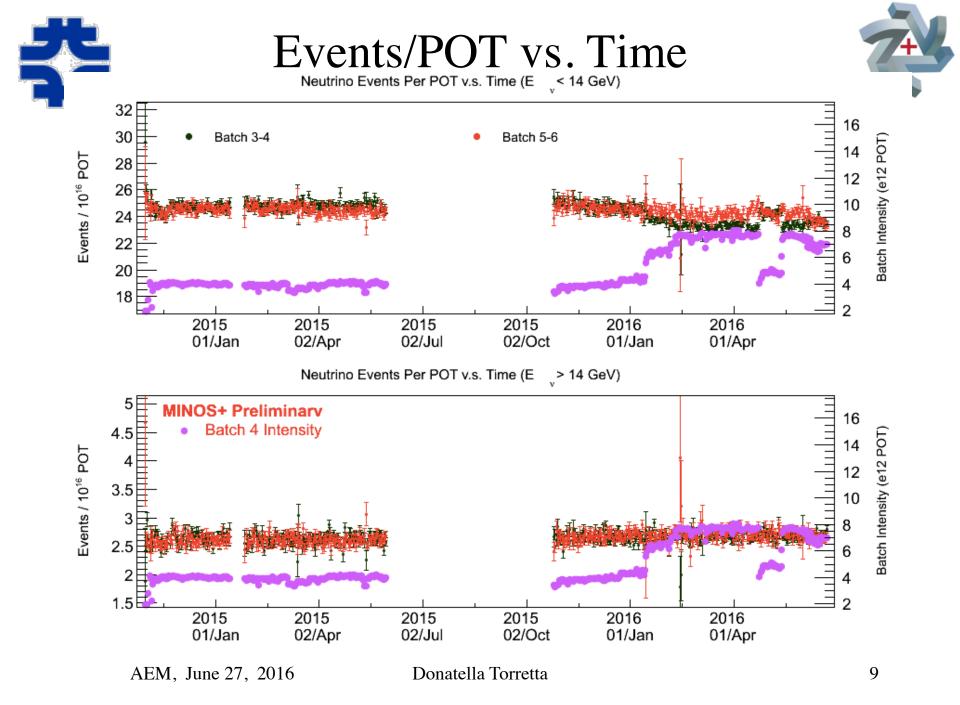
Spectrum Stability (batch #4)



Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)



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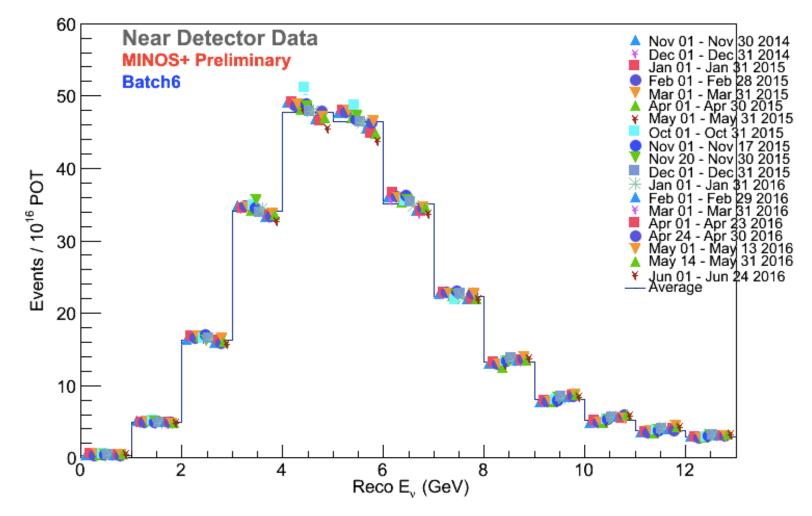




Spectrum Stability (batch #6)



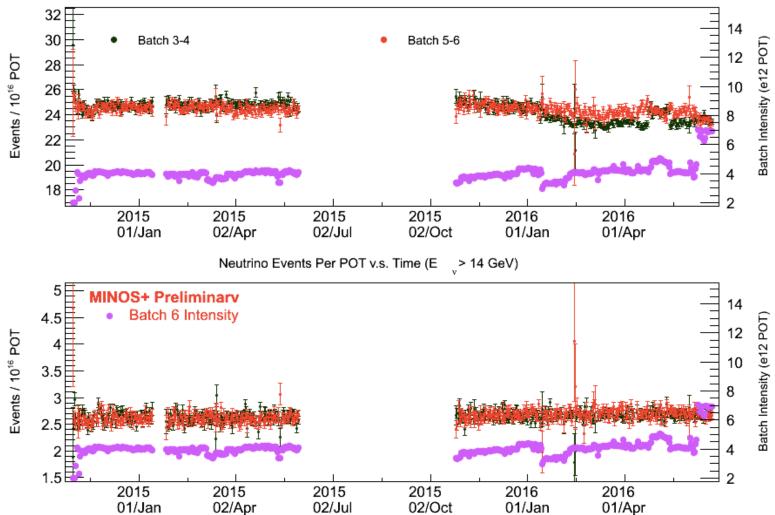
Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)











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Events/POT + Intensity



Spectrum by batches available at:

http://minos.fnal.gov/DataQuality/BatchPage.php

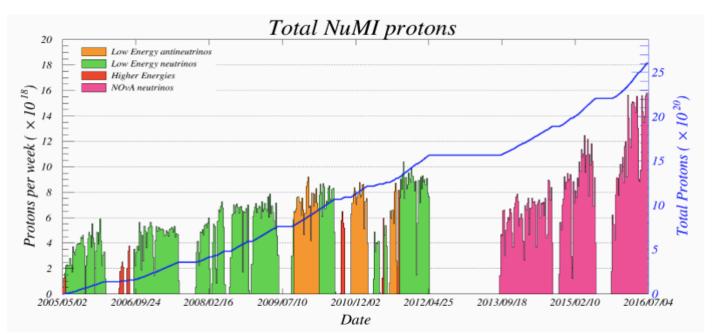


MINOS+ end remarks



- Last MINOS+ RunCO AEM talk!!!
- 76 talks for me
- 38 talks for Adam
- Thanks to all who helped make MINOS/MINOS+ a great experiment
- Special thanks to AD for delivering $\sim 2.6 \times 10^{21}$ POT !!!

All NuMI protons



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