

MINOS+ Status Report



Donatella Torretta All Experimenters' Meeting June 13, 2016



Near Detector





DAQ

No issues: ran well the whole week

Electronics/Detector

- Again intermittent LI issues:
 - Data Quality flags some data as bad (hence lower LiveTimes)
 - Investigation will take place during summer shutdown
- Replaced fan pack during last Monday's beam downtime
- Replaced two Minders with hot channels and CAPID errors



Far Detector





DAQ

• No issues: ran well the whole week

Electronics/Detector

- No detector issues
- Taking CI special runs during beam downtimes



MINOS+ Status



	ı	Near Detector		Far Detector	
Start Date/Time	End Date/Time	POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
3/14/2016 00:00:00	3/28/2016 00:00:00	99.3%	96.5%	99.8%	99.5%
3/21/2016 00:00:00	3/28/016 00:00:00	99.7%	99.7%	99.8%	99.8%
3/28/2016 00:00:00	4/4/2016 00:00:00	98.5%	96.5%	98.3%	98.2%
4/4/2016 00:00:00	4/11/2016 00:00:00	92.4%(**)	91.9%(**)	99.9%	97.9%
4/11/2016 00:00:00	4/18/2016 00:00:00	58%(**)	58%(**)	99.8%	99.8%
4/18/2016 00:00:00	4/25/2016 00:00:00	99.6%	98.3%	99.4%	99.5%
4/25/2016 00:00:00	05/02/2016 00:00:00	99.6%	99.7%	98%	98%
5/2/2016 00:00:00	5/9/2016 00:00:00	99.5%	99.6%	94.0%	93.8%
5/9/2016 00:00:00	5/16/2016 00:00:00	97.0%	94.3%	99.9%	99.5%
5/16/2016 00:00:00	5/23/2016 00:00:00	94.4%	94.6%	99.9%	99.9%
5/23/2016 00:00:00	5/30/2016 00:00:00	99.5%	99%	99.9%	99.5%
5/30/2016 00:00:00	6/6/2016 00:00:00	98.8%	99%	94% (&)	93.8%(&)
6/6/2016 00:00:00	6/13/2016 00:00:00	89.2%(**)	90.5%(**)	99.9%	99.5%

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



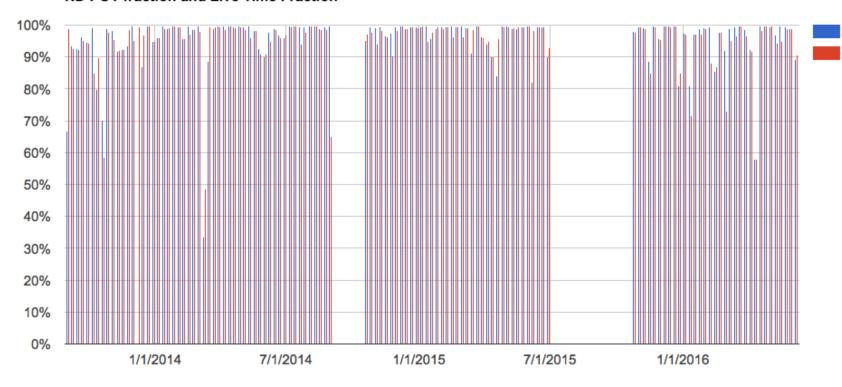
MINOS+ ND Status



ND POT Fraction
ND Live Time

Fraction

ND POT fraction and Live Time Fraction



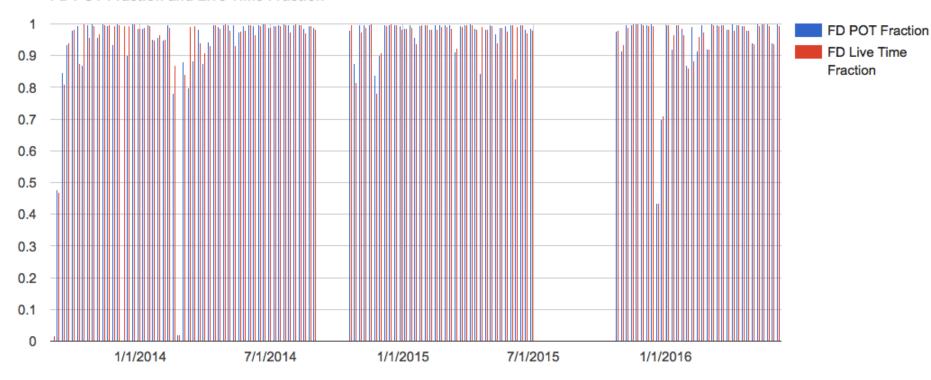
Start Date



MINOS+ FD Status



FD POT Fraction and Live Time Fraction



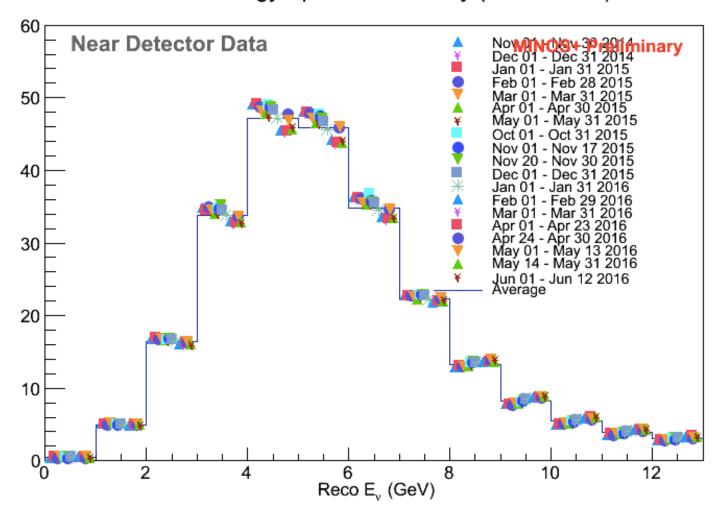
Start Date



Energy Spectrum



Neutrino Energy Spectrum Stability (PQ and NQ)

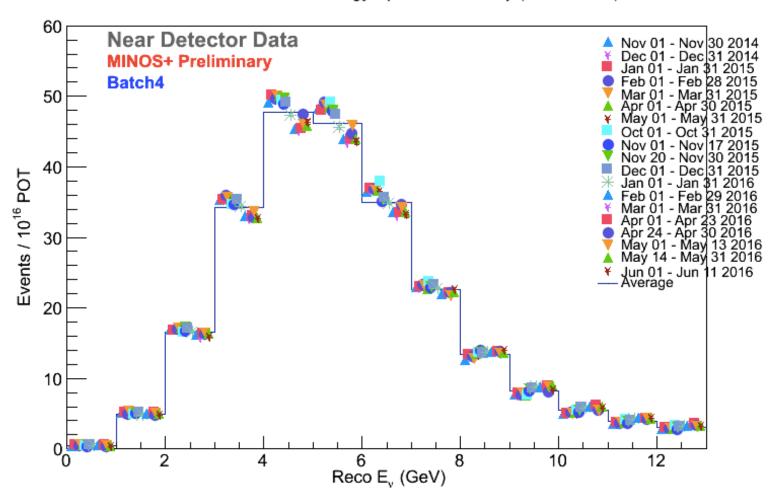




Spectrum Stability (batch #4)



Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)

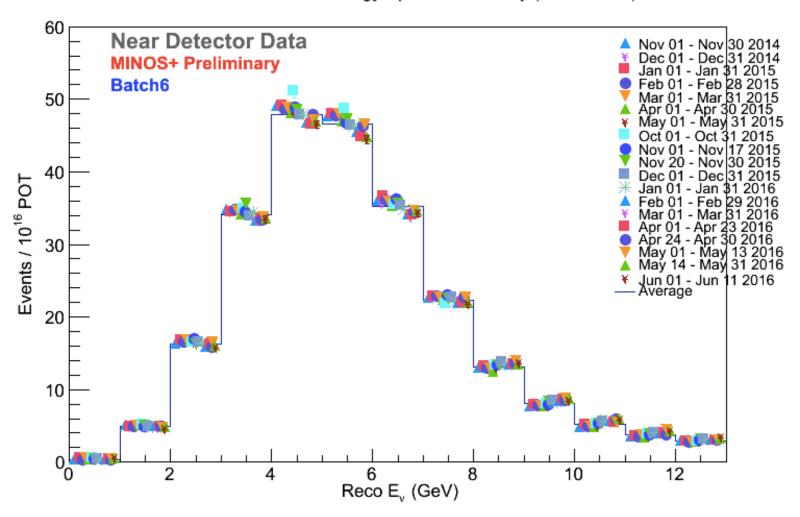




Spectrum Stability (batch #6)



Neutrino Selected Batch Energy Spectrum Stability (PQ and NQ)

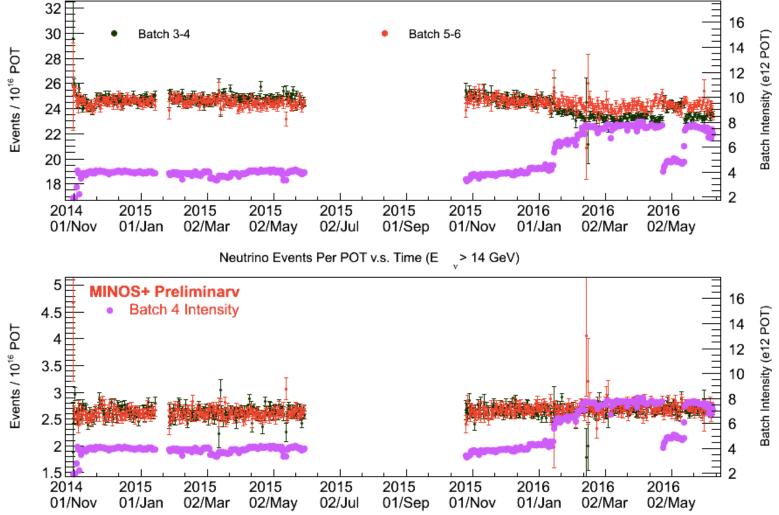




Events/POT vs. Time



Neutrino Events Per POT v.s. Time (E ___< 14 GeV)

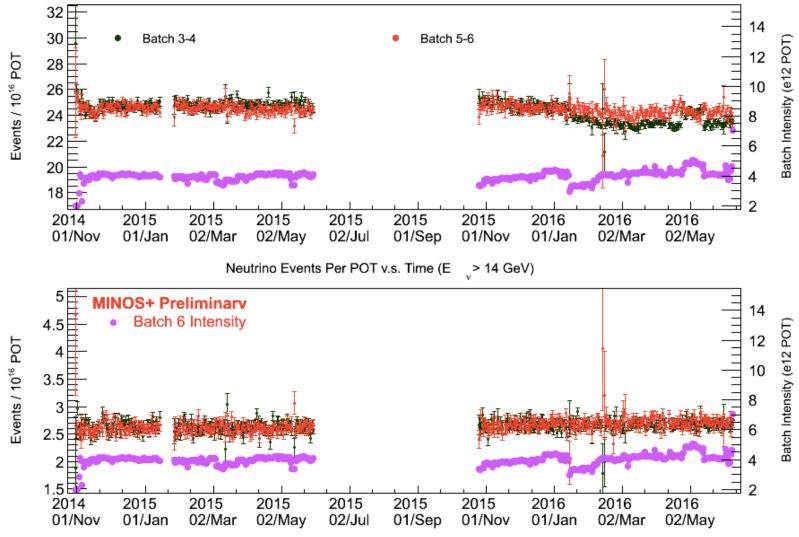




Events/POT vs. Time



Neutrino Events Per POT v.s. Time (E __< 14 GeV)





Events/POT + Intensity



Spectrum by batches available at:

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