

MINOS+ Status Report



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All Experimenters' Meeting
February 16, 2015



Near Detector



DAQ news

- DAQ has been running well this past week
- DCS hot spare computer (minos-dcs01-nd) configured
- Some changes in RC GUI to protect from human mistakes:
 - Requires login name & confirmation of RunType (normal data taking == RunSequence mode)

Electronics/Detector news

- Cold channel 7-16-1-0 remains
 - Swapped Minder a few times
 - Need more investigation during extended beam downtime but is a minor problem
- Some MIS-COUNT errors in 0-19
 - Calibrating did not help
 - We'll try replacing Master 19 at the next opportunity



Far Detector



DAQ news



- DAQ has been running well this past week

Electronics/Detector news

- One intermitted CI low gain channel (one pixel)
- CI Special runs taken during occasional beam downtimes
- Power Outage at Soudan and vicinities on Tuesday 02/10
 - Lasted about 1.5 hour
 - Everything was back up and taking data resumed within an hour: pretty good recovery time!
 - Lost 2.5 hours of beam overall



MINOS+ Status

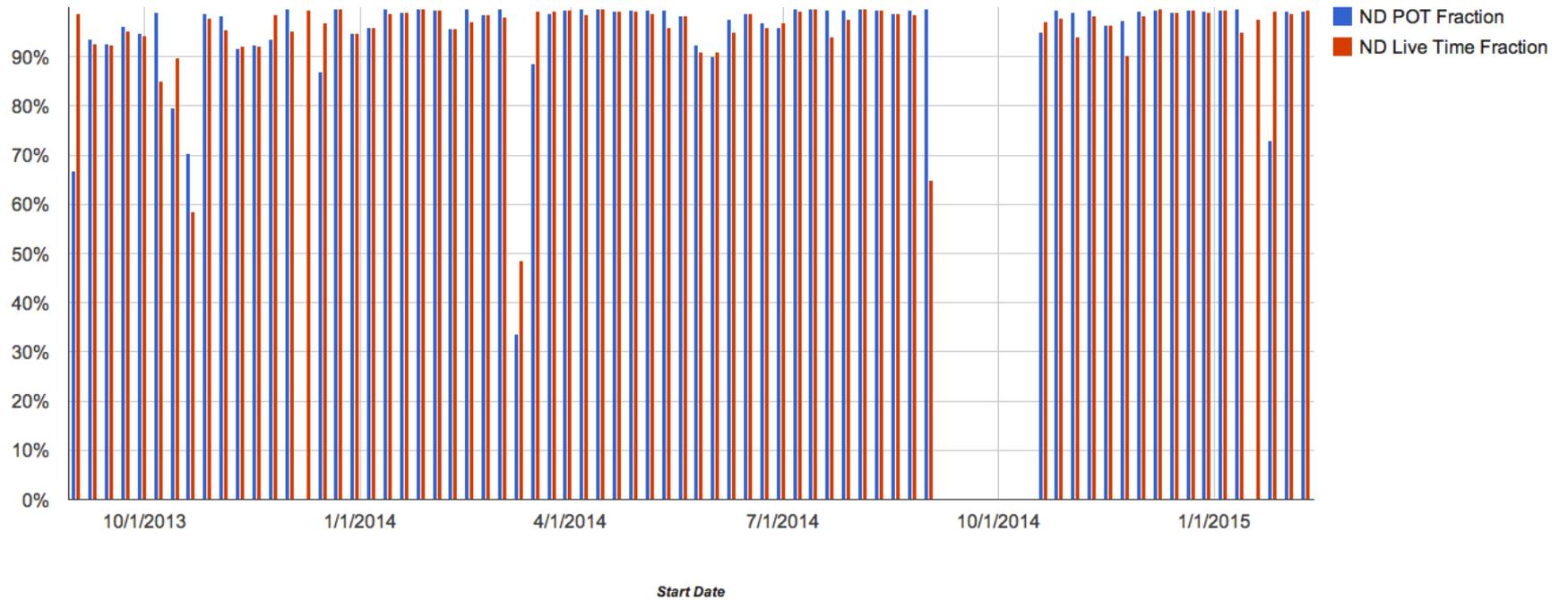


Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
10/20/2014 00:00:00	10/27/2014 00:00:00	95.1%	97.2%	98.1%	99.8%
10/27/2014 00:00:00	11/03/2014 00:00:00	99.5%	97.8%	87.4%	81.4%
11/03/2014 00:00:00	11/10/2014 00:00:00	99.2%	94%	99.6%	97.5%
11/10/2014 00:00:00	11/17/2014 00:00:00	99.5%	98.3%	99.7%	98.8%
11/17/2014 0:00:00	11/24/2014 00:00:00	96.5%	96.4%	99.7%	99.9%
11/24/2014 00:00:00	12/01/2014 00:00:00	97.4%	90.3%	83.8%	78.0%
12/01/2014 00:00:00	12/08/2014 00:00:00	99.3%	98.3%	90%	91%
12/08/2014 00:00:00	12/15/2014 00:00:00	99.6%	99.7%	99.8%	99.5%
12/15/2014 00:00:00	12/22/2014 00:00:00	99%	99%	99.8%	99.9%
12/22/2014 00:00:00	12/29/2014 00:00:00	99.5%	99.5%	99.8%	99.6%
12/29/2014 00:00:00	01/05/2015 00:00:00	99.4%	99.1%	99.3%	98.2%
01/05/2015 00:00:00	01/12/2015 00:00:00	99.5%	99.6%	98.5%	98.6%
01/12/2015 00:00:00	01/19/2015 00:00:00	99.7%	95.0%	99.8%	98.8%
01/19/2015 00:00:00	01/26/2015 00:00:00	0%	97.7%	0%	93.7%
01/26/2015 00:00:00	02/02/2015 00:00:00	73%	99.3%	73.5%	99.7%
02/02/2015 00:00:00	02/09/2015 00:00:00	99.4%	98.8%	99.8%	99.6%
02/09/2015 00:00:0	02/16/2015 00:00:00	99.4%	99.5%	98.4%	98.4%

(*) Missing/incorrect data in offline database are being addressed

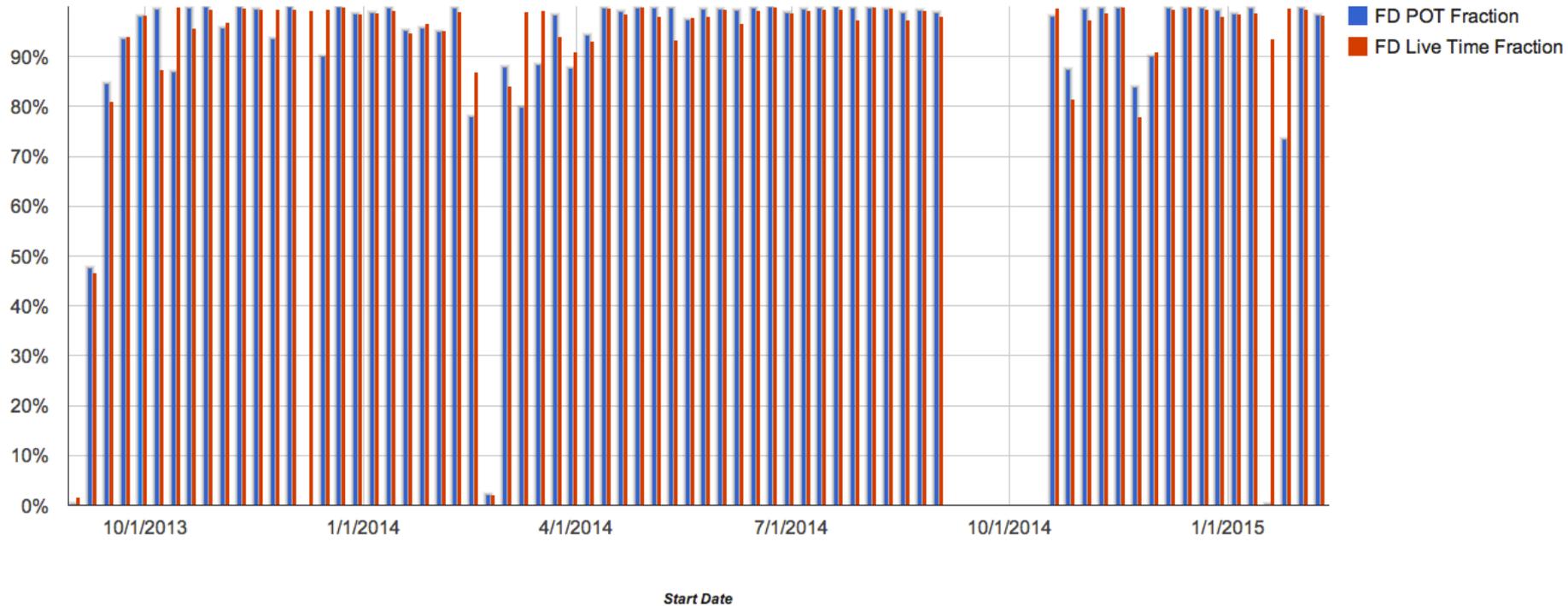


ND POT fraction and Live Time Fraction





FD POT Fraction and Live Time Fraction

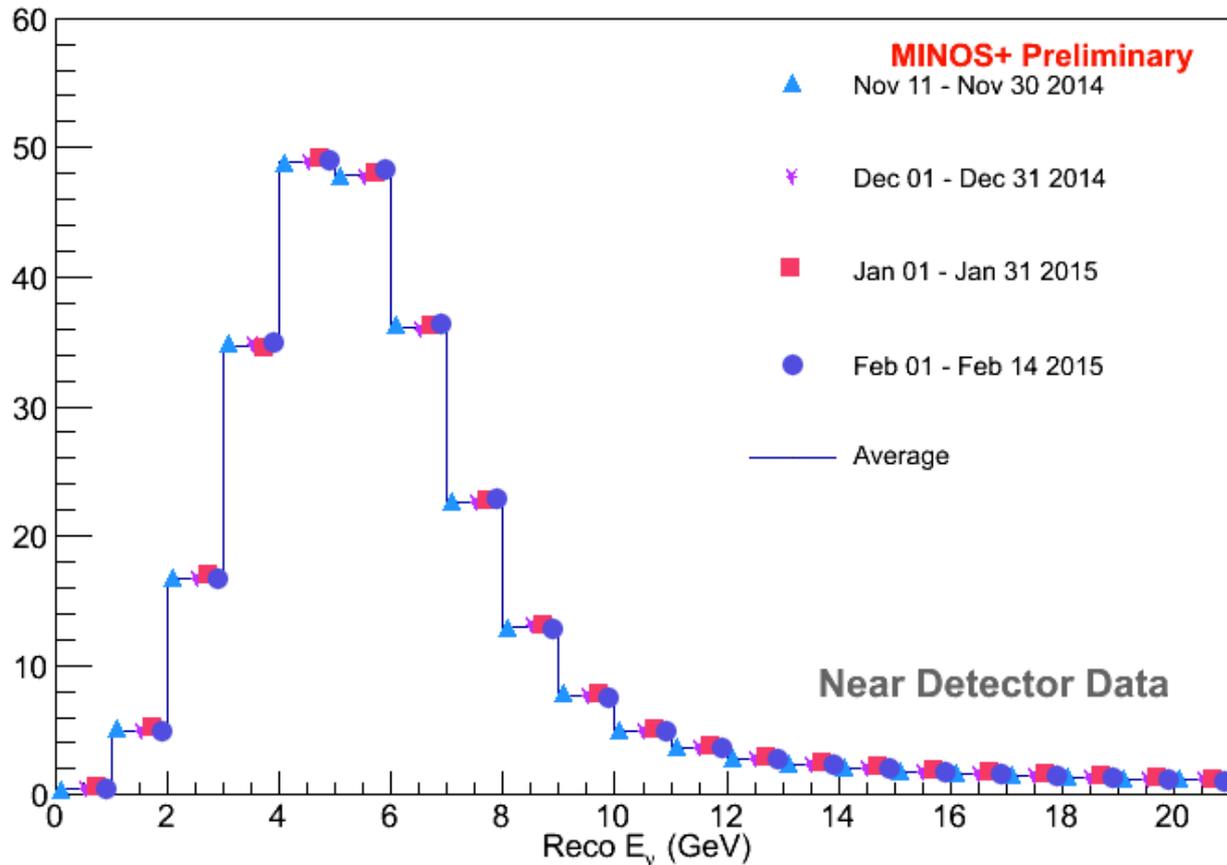




Data Quality Monitoring (Numu-CC)



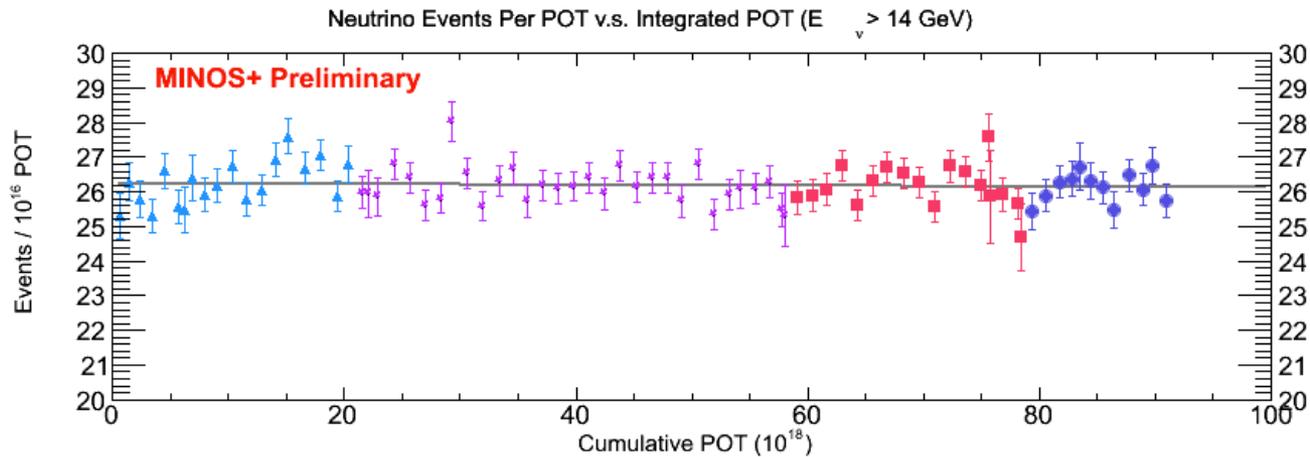
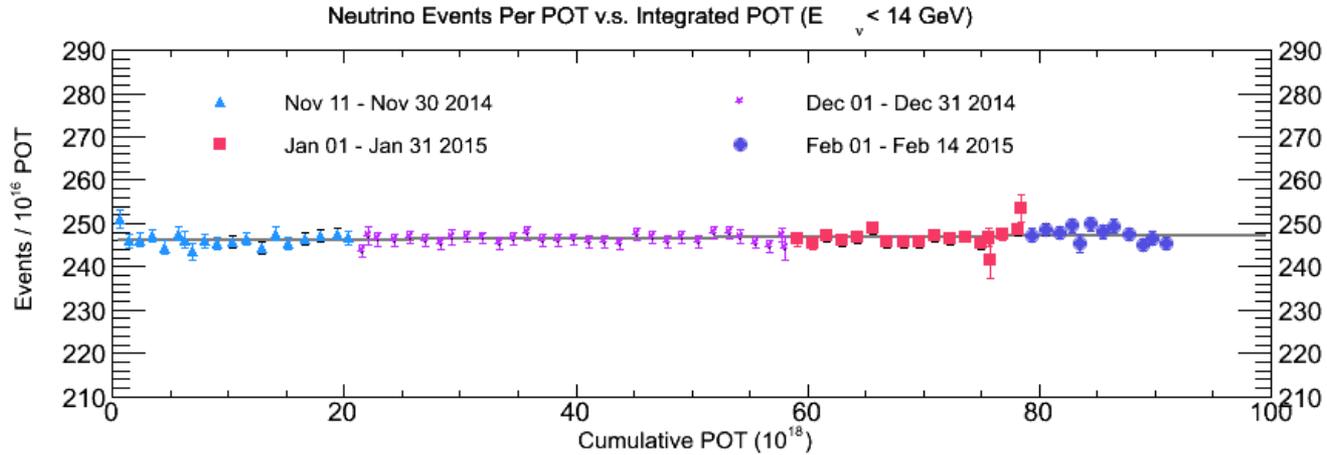
Neutrino Energy Spectrum Stability (PQ and NQ)



Plot courtesy of Ashley Simmons



Data Quality Monitoring (Numu-CC)



Plots courtesy of Ashley Simmons