

# MINOS+ Status Report



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All Experimenters' Meeting  
March 16, 2015



# Near Detector



## DAQ news

- DAQ has been running well this past week
- One crash fixed within minutes

## Electronics/Detector news

- Two new warm channels appeared last week
  - we'll replace the Minder boards during Wednesday's beam downtime
- Cold channel 7-16-1-0 remains:
  - Swapped Minder board a few times
  - Need more investigation during extended beam downtime but is a minor problem
- Some MIS-COUNT errors in 0-19
  - Calibrating does not help
  - We'll try replacing Master 19 on Wednesday if time allows



# 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
- Investigated and solved some strange pattern in Pedestals' RMS in Crate 10
  - Replaced 'Harvard' box ( power supply for all the PMTs multiplexed boxes in that crate)
- A new cold channel 8-3-0-1-1
  - Seems to be the PMT base
  - Will be swapped during Wednesday's beam downtime if possible (Soudan has 4 hours power off that day)



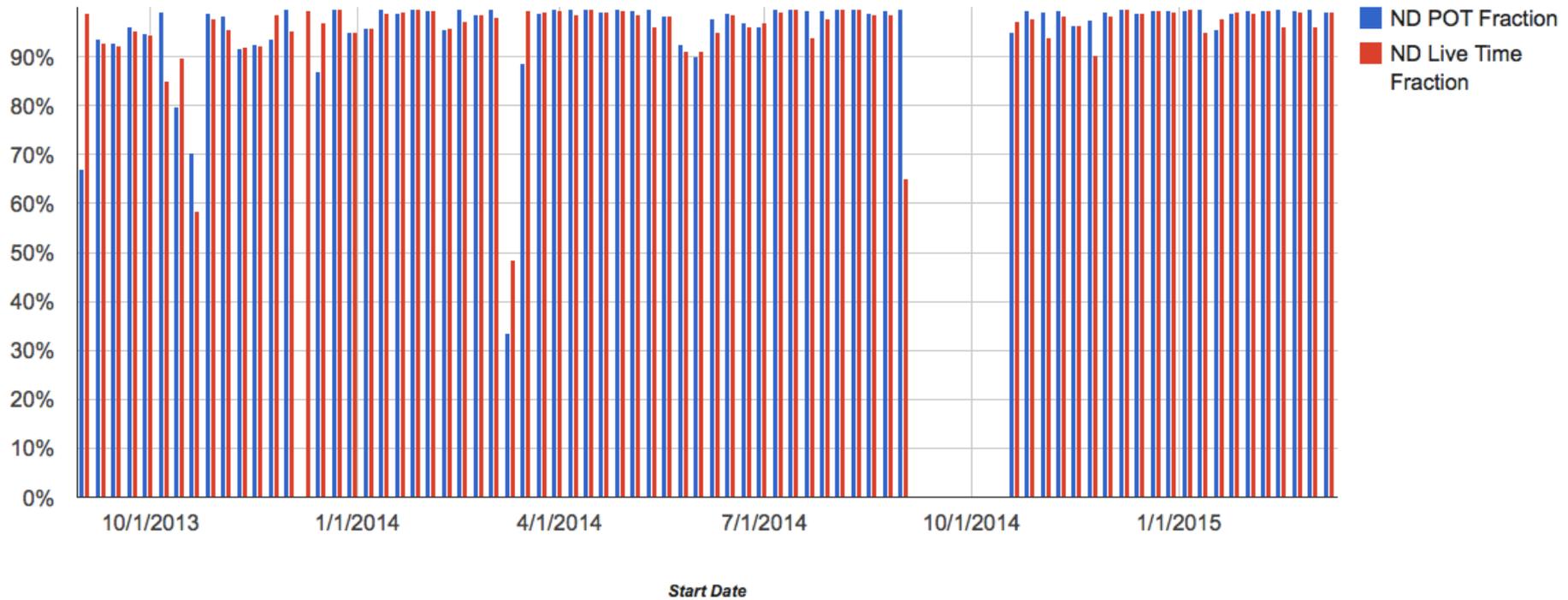
# MINOS+ Status

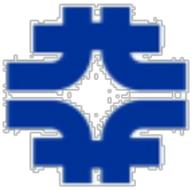


Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
12/29/2014 00:00:00	1/05/2015 00:00:00	99.4%	99.1%	99.3%	98.2%
1/05/2015 00:00:00	1/12/2015 00:00:00	99.5%	99.6%	98.5%	98.6%
1/12/2015 00:00:00	1/19/2015 00:00:00	99.7%	95.0%	99.8%	98.8%
1/19/2015 00:00:00	1/26/2015 00:00:00	95.6%	97.7%	95.8%	93.7%
1/26/2015 00:00:00	2/02/2015 00:00:00	99%	99.3%	99.4%	99.7%
2/02/2015 00:00:00	2/09/2015 00:00:00	99.4%	98.8%	99.8%	99.6%
2/09/2015 00:00:00	2/16/2015 00:00:00	99.4%	99.5%	98.4%	98.4%
2/16/2015 00:00:00	2/23/2015 00:00:00	99.6%	96.2%	99.7%	98.3%
2/23/2015 00:00:00	3/2/2015 00:00:00	99.4%	99.3%	99.6%	99.1%
03/2/2015 00:00:00	3/9/2015 00:00:00	99.6%	96.2%	99.8%	94.7%
3/9/2015 00:00:00	3/16/2015 00:00:00	99.2%	99.2%	99.8%	98.6%

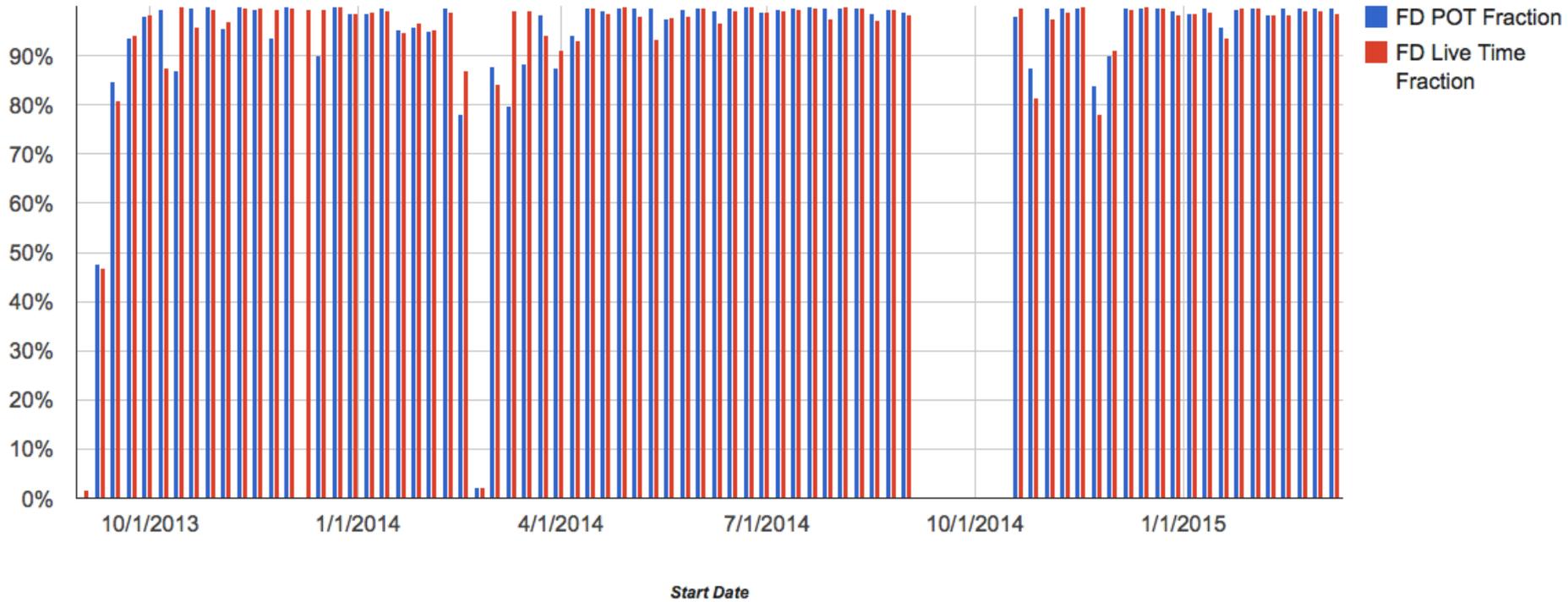


**ND POT fraction and Live Time Fraction**





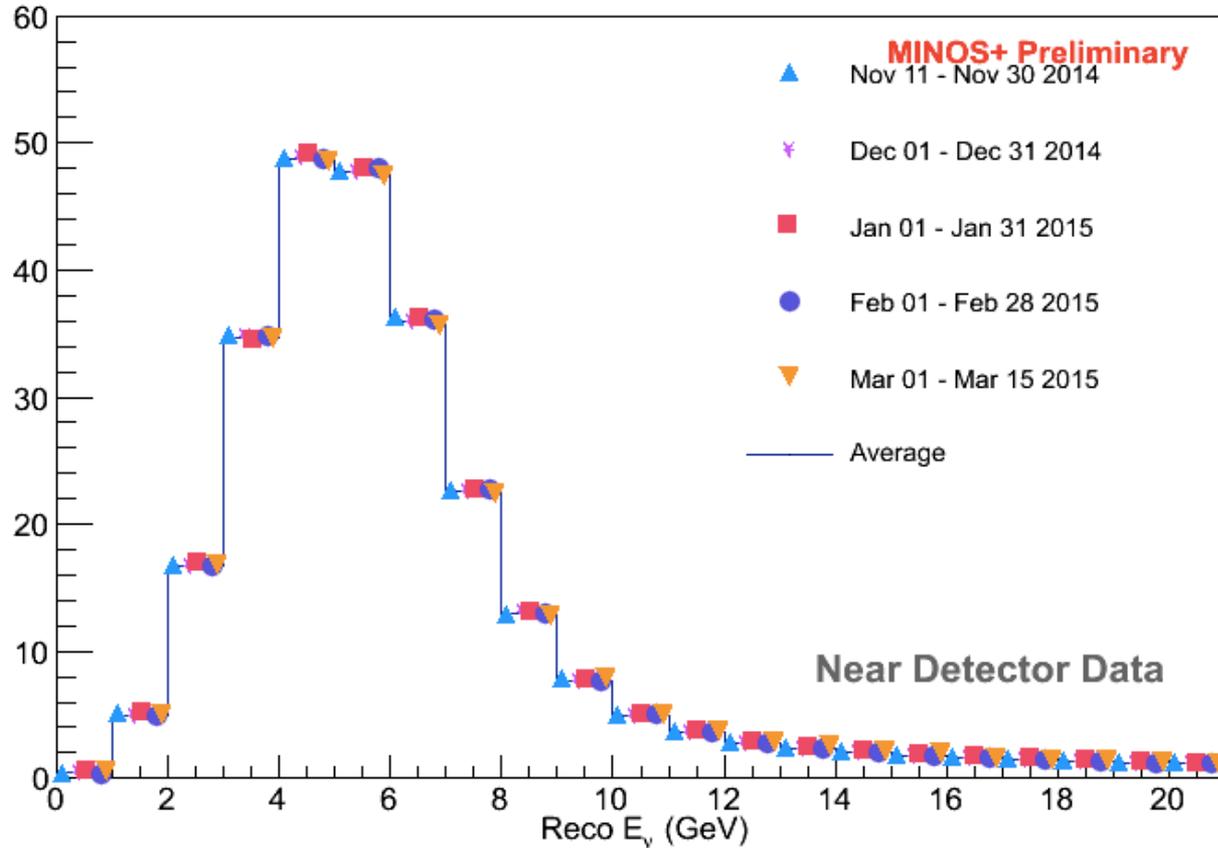
**FD POT Fraction and Live Time Fraction**





# Data Quality Monitoring (Numu-CC)

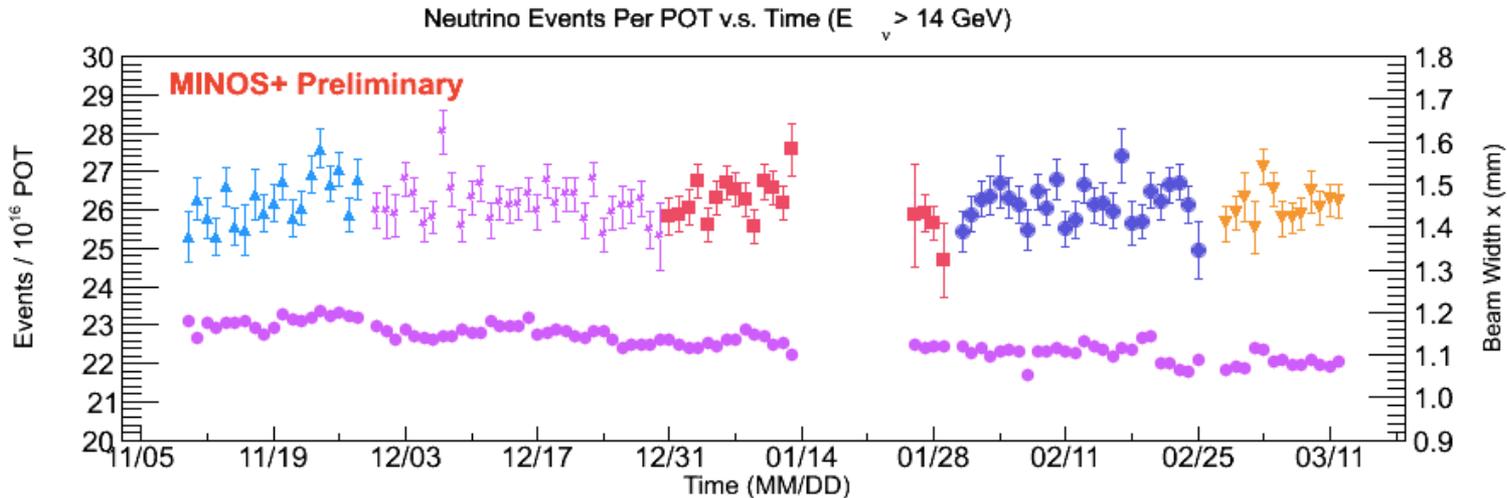
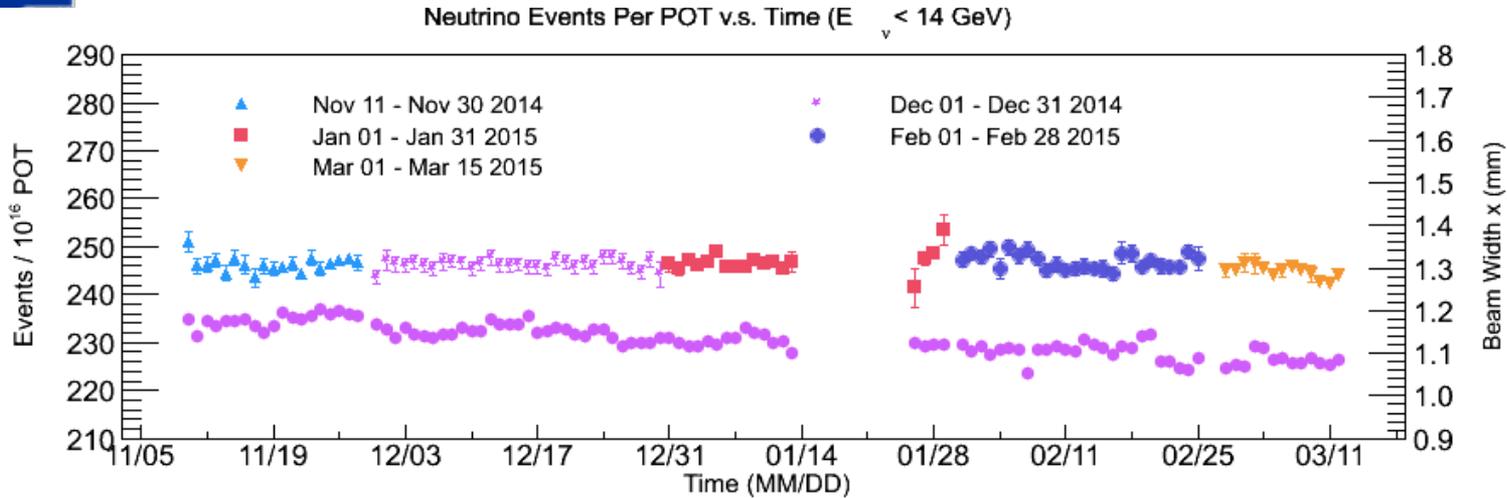
## Neutrino Energy Spectrum Stability (PQ and NQ)



Plot courtesy of Ashley Timmons



# Data Quality Monitoring (Numu-CC)



Plot courtesy of Ashley Timmons