



MINOS+ Status Report



Donatella Torretta
All Experimenters' Meeting
April 6, 2015



Near Detector



DAQ news

- One crash on Saturday morning fixed in ~40 minutes (slow network connection to the Lab) by the Yell-DAQ on call expert.

Electronics/Detector news

- Fans pack failure in Master Crate 6 on Monday 03/20 during the beam downtime; replaced it before beam came back
- Around 8:30 pm we were notified of two whole hot minders in Crate 0 with a rate of 150 kHz
- Several remote calibration & power cycles attempts did not work
- Came in around 9 pm and tried swapping Minders/Master & recalibrating to no avail
- Investigated Keeper/dynodes trigger the following day 03/31
 - Looked like a light leak in one PMT
 - Decided to investigate more at the next beam downtime
- Problem disappeared on its own by 10:00 pm !
- Data has been GOOD all the time (SGATE triggers were not affected) but LiveTime is a bit lower (stop/start runs)



Far Detector



DAQ news

- DAQ has been running very well this past week
- Soudan is commissioning as ROC site
- We'll setup official certification shifts with MCR

Electronics/Detector news

- One intermitted CI low gain channel (one pixel)
- CI Special runs taken during occasional beam downtimes
- Everything is running smoothly



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%
3/16/2015 00:00:00	3/23/2015 00:00:00	91.3%	98.7%	91.1%	92.3%
3/23/2015 00:00:00	3/30/2015 00:00:00	99.6%	99.6%	99.4%	99.1%
3/30/2015 00:00:00	4/6/2015 00:00:00	96.2%	96.1%	99.9%	99.6%

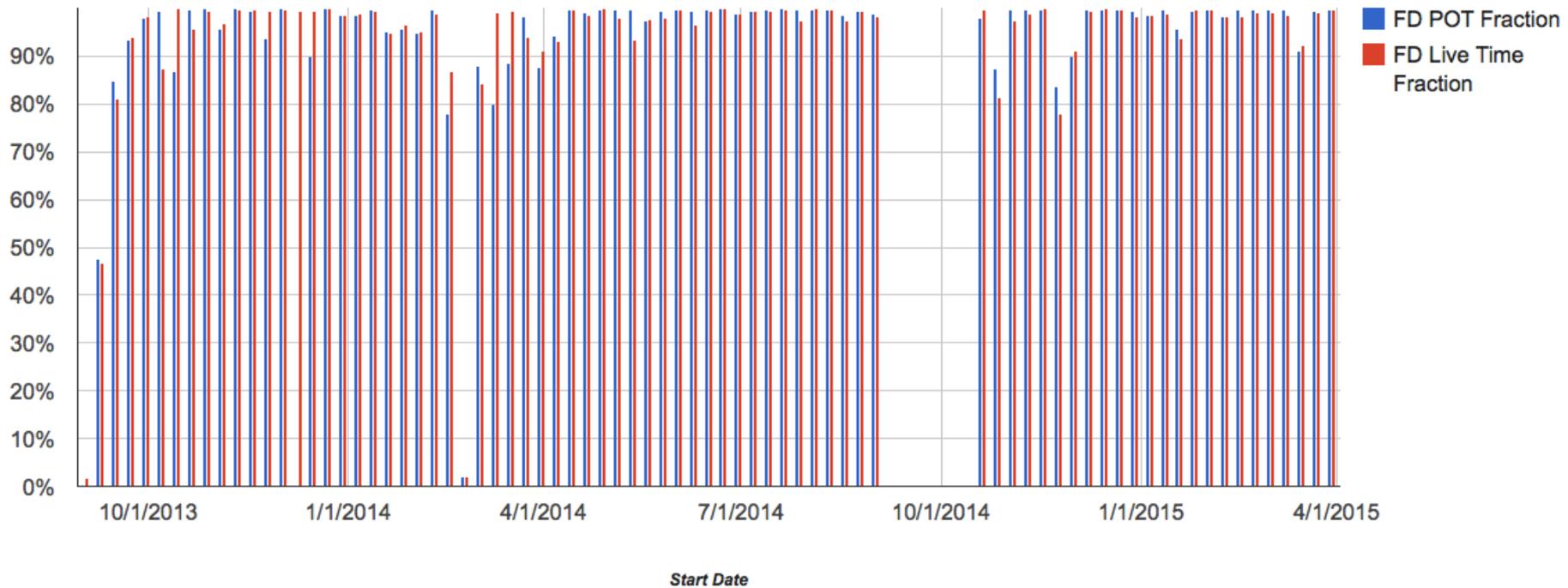


ND POT fraction and Live Time Fraction





FD POT Fraction and Live Time Fraction



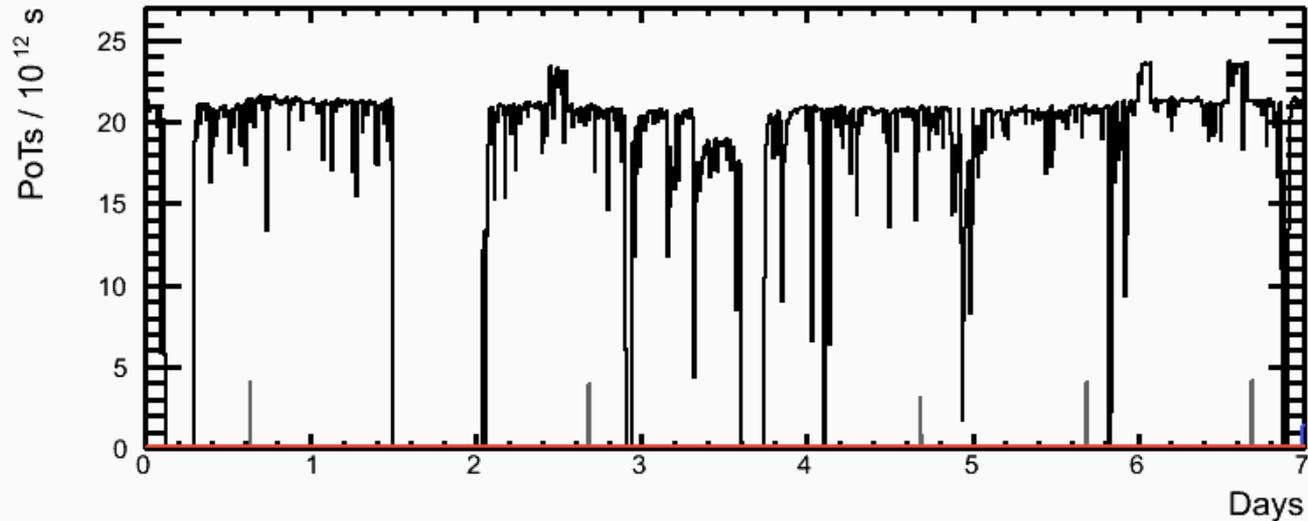


Data Quality Monitoring (Numu-CC)



Start: Sun, 29 Mar 2015 00:00:00 End: Sun, 05 Apr 2015 00:00:00

— Good Data
— Bad Beam
— No Physics Run
— Bad Readout
— Bad HV/Coil
— Bad GPS

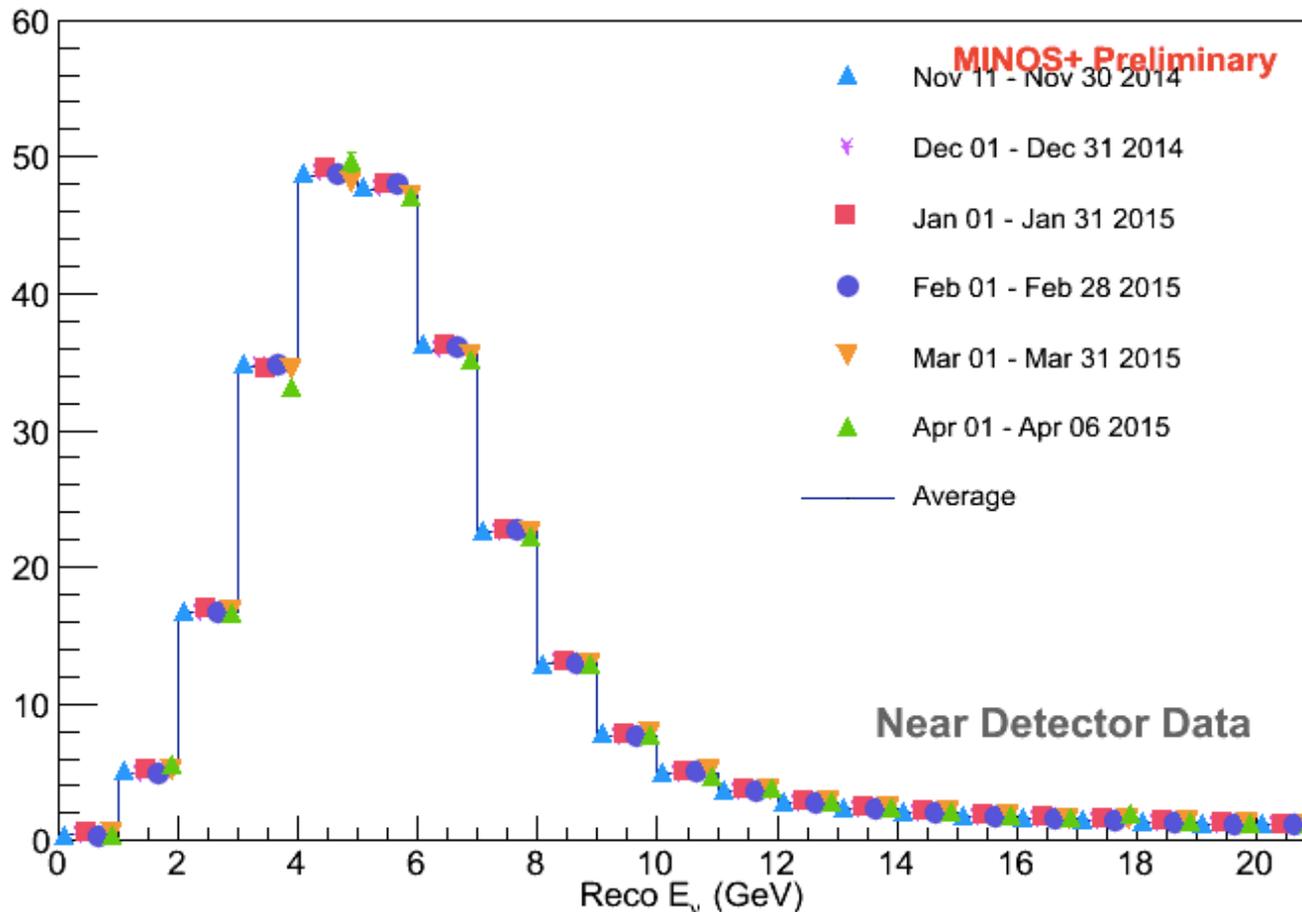


The peaks correspond to last week's periods of running at ~450 kW.
Thanks AD!



Data Quality Monitoring (Numu-CC)

Neutrino Energy Spectrum Stability (PQ and NQ)



Plot courtesy of Ashley Timmons



Data Quality Monitoring (Numu-CC)

