



MINOS+ Status Report



Donatella Torretta
All Experimenters' Meeting
June 22, 2015



Near Detector

DAQ news

- No issues to report



Electronics/Detector news

Usual:

- One cold/hot channel
 - Replaced Minder boards a few times
 - Planning extensive investigation during the summer shutdown
 - Single bad channels are masked off and do not affect DQ
- Low Gain in Plane 28 (Calorimeter)
 - LED problem ? Bad fiber connection ?
 - Planned extensive investigation during summer shutdown



Far Detector

DAQ news



- No issues to report

Electronics/Detector news

- That *one* usual flat charge injection channel
 - May be looked up during the summer shutdown

For BOTH detectors: upcoming leap second change on Jun 30, at 23:59:60 UTC

- We need to change the NTP config file (tpc.config) to add the extra second
- We need to stop/restart run at both sites before/after the leap second change
- Inform MINERvA



MINOS+ Status



Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
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%
4/6/2015 00:00:00	4/13/2015 00:00:00	94%	95%	99.9%	99.6%
4/13/2015 00:00:00	4/20/2015 00:00:00	90%	90%	98.7%	98.4%
4/20/2015 00:00:00	4/27/2015 00:00:00	98.4% (*)	96.7%	98.4% (*)	99.2%
4/27/2015 00:00:00	5/04/2015 00:00:00	99.8%	99.4%	98.2%	98.3%
5/8/2015 00:00:00	5/11/2015 00:00:00	99.6%	99.4%	99.8%	99.5%
5/11/2015 00:00:00	5/18/2015 00:00:00	99%	99.1%	97.3%	94.1%
5/18/2015 00:00:00	5/25/2015 00:00:00	98.8%	99.3%	98.8%	98.9%
5/25/2015 00:00:00	6/01/2015 00:00:00	99.5%	99.5%	99.3%	97.7%
6/01/2015 00:00:00	6/08/2015 00:00:00	99.7%	99.7%	99.85%	99.85%
6/8/2015 00:00:00	6/15/2015 00:00:00	70.8% (**)	98.2%	71.4% (**)	99.2%
6/15/2015 00:00:00	6/22/2015 00:00:00	0%(**)	99.6%	0%(**)	99.6%

(*) IFBeamDB data (ACNet devices with timestamp off 1s) has been fixed for this period.

Beam files have been remade: two hours period still under investigation

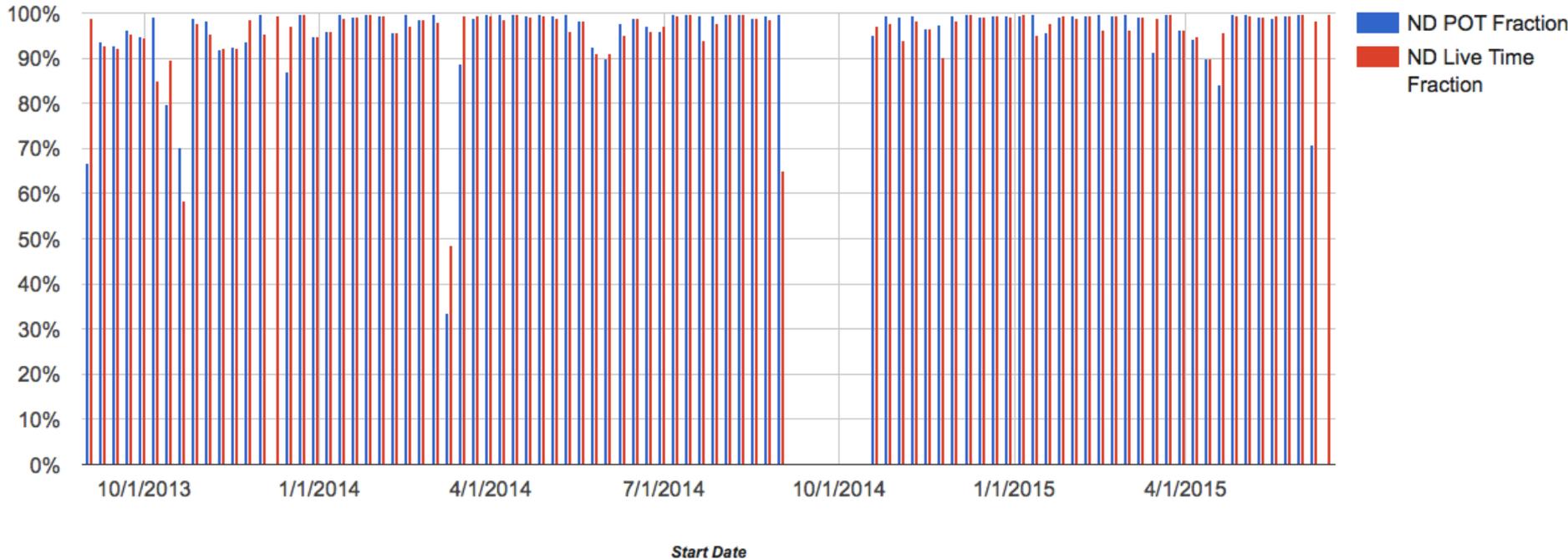
(**) POT fraction affected by good beam definition during horn off runs



MINOS+ Status



ND POT fraction and Live Time Fraction

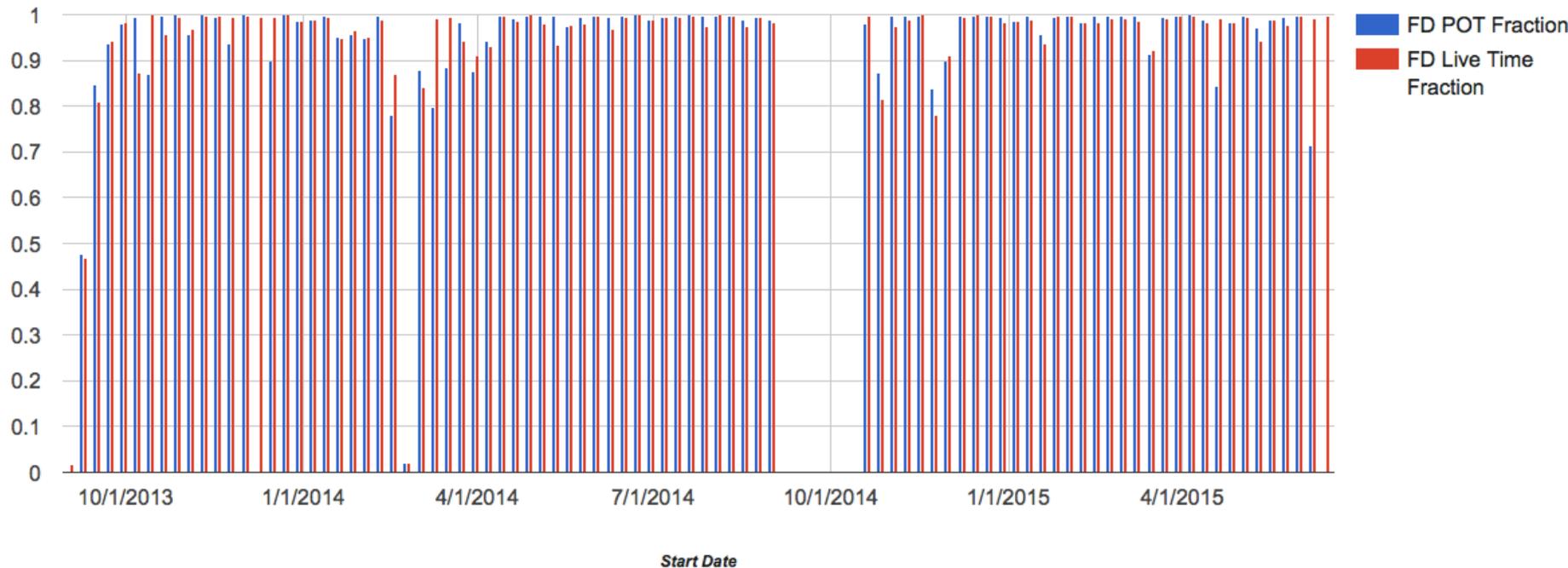




MINOS+ Status

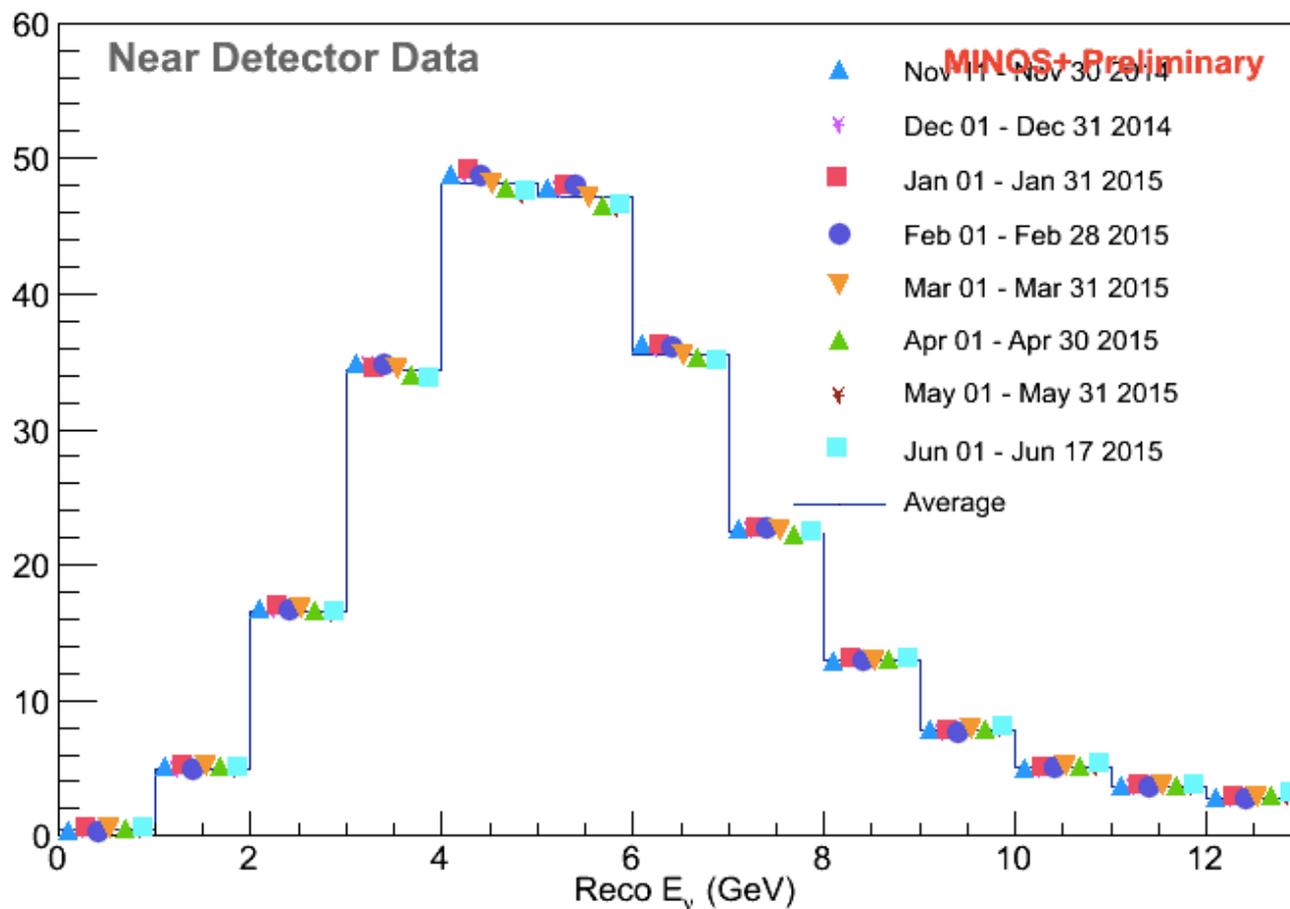


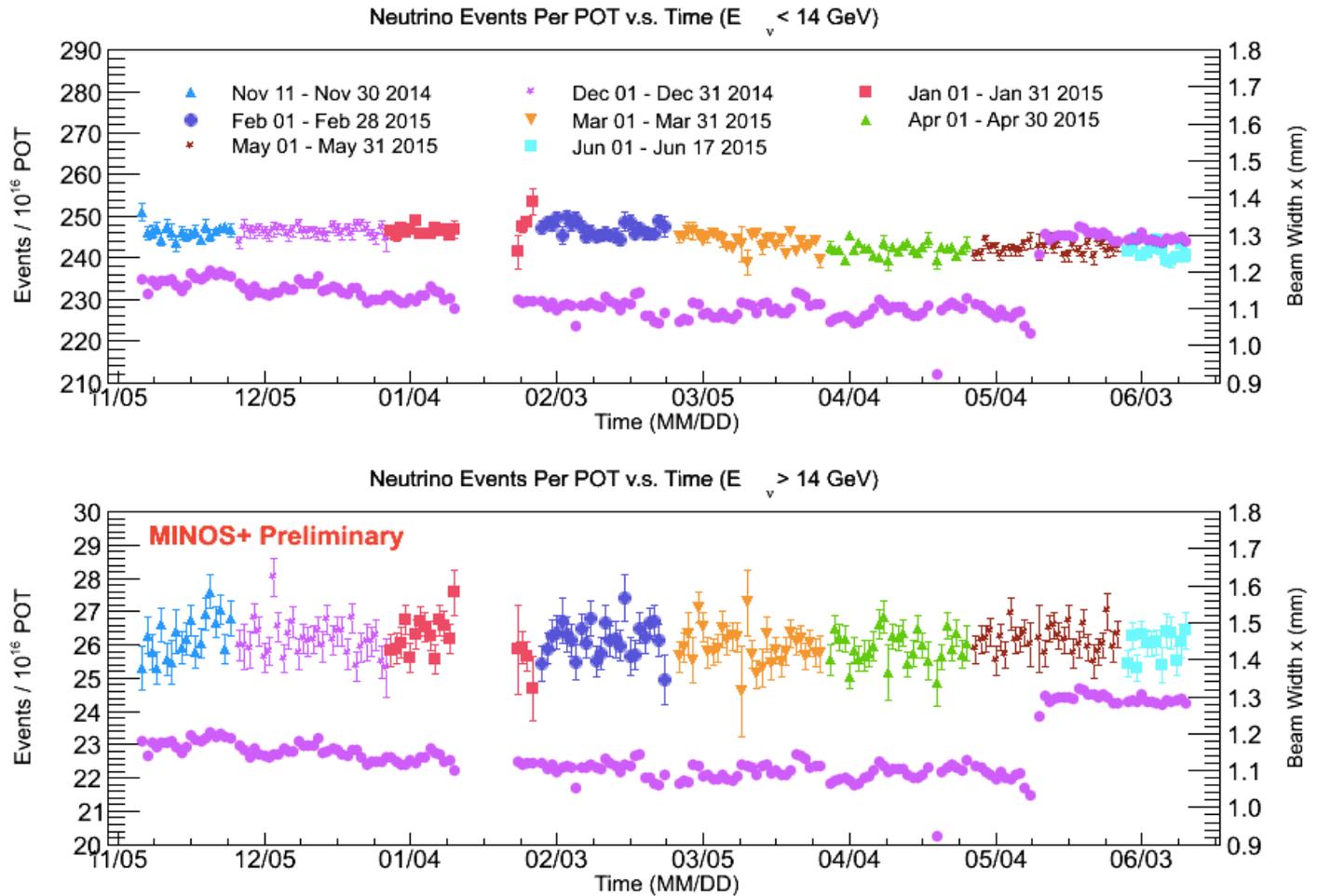
FD POT Fraction and Live Time Fraction





Neutrino Energy Spectrum Stability (PQ and NQ)







Batches' intensity study update

- We are in the process of investigating all possible detector-related intensity effects.
- We are very interested in using the horn-off data to study any beam-related effects, but will need at least a week's more data to do this study.