



# MINOS+ All Experimenters' Meeting Report

A.P. Schreckenberger  
2015-6-1

# Near Detector

- ▶ Unusual minder
  - ▶ Reporting as both hot and cold – low rate with a high ADC when pinged
- ▶ Several DAQ crashes occurred in past two weeks
  - ▶ All recovered quickly from reset of daq branch and relevant machines
- ▶ CAPID errors noticed on several different occasions
  - ▶ Again cleared
- ▶ Virtual field point machine
  - ▶ Will take over DCS



# Far Detector

---

- ▶ FD DCS computer backed up
  - ▶ Temp outage during task
- ▶ HV Short problem on Crate 1
  - ▶ MUX box cable replacement may be necessary
- ▶ DAQ crash required reset of one of the FD DAQ machines
- ▶ HV card also replaced in past two weeks



# MINOS+ Status

---

| Start Date/Time  | End Date/Time    | Near Detector |                    | Far Detector |                    |
|------------------|------------------|---------------|--------------------|--------------|--------------------|
|                  |                  | POT Fraction  | Live Time Fraction | POT Fraction | Live Time Fraction |
| 4/13/15 00:00:00 | 4/20/15 00:00:00 | 90.2%         | 90.4%              | 98.7%        | 98.4%              |
| 4/20/15 00:00:00 | 4/27/15 00:00:00 | 84.0%         | 95.7%              | 84.4%        | 99.2%              |
| 4/27/15 00:00:00 | 5/4/15 00:00:00  | 99.8%         | 99.4%              | 98.7%        | 98.3%              |
| 5/4/15 00:00:00  | 5/11/15 00:00:00 | 99.6%         | 99.4%              | 99.8%        | 99.5%              |
| 5/11/15 00:00:00 | 5/18/15 00:00:00 | 99.0%         | 99.1%              | 97.3%        | 94.1%              |
| 5/18/15 00:00:00 | 5/25/15 00:00:00 | 98.8%         | 99.3%              | 98.8%        | 98.9%              |
| 5/25/15 00:00:00 | 6/1/15 00:00:00  | 99.5%         | 99.5%              | 99.3%        | 97.7%              |

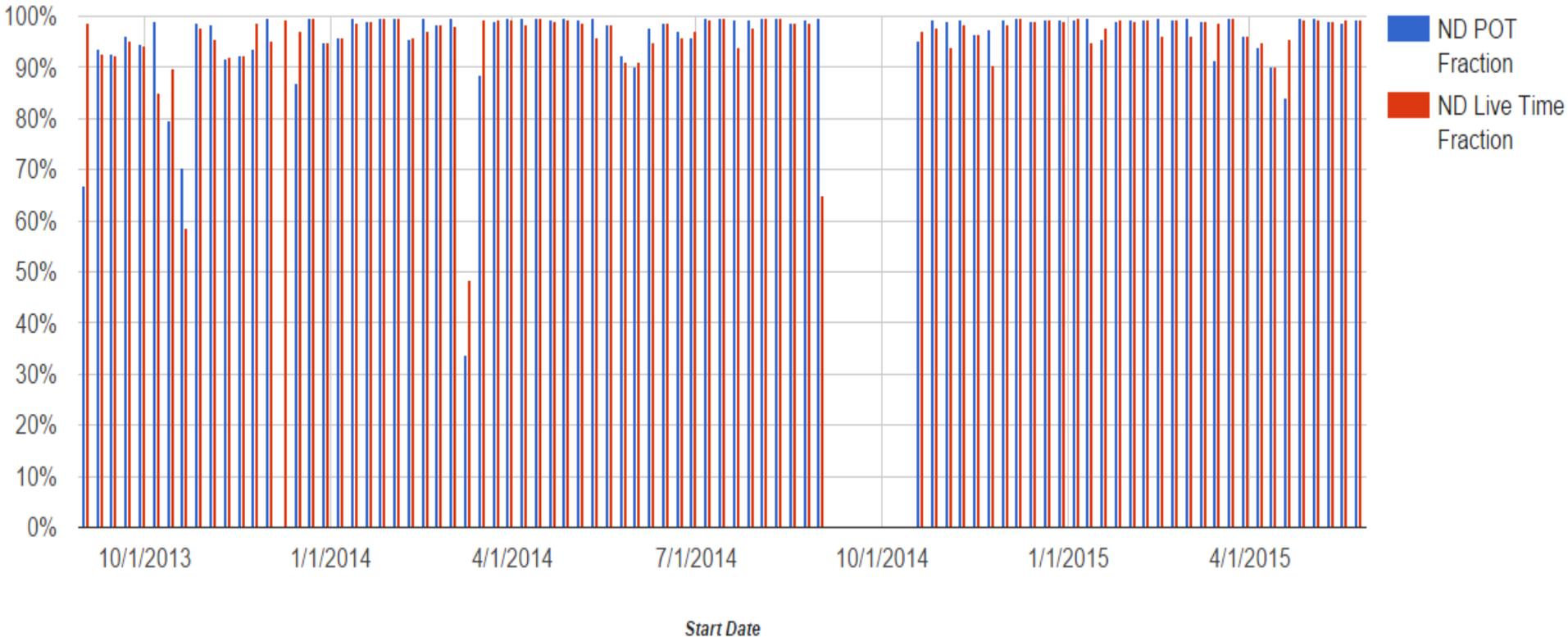
❖ Still in process of recovering from ACNET issue during week of 4/20

❖ **Again, all the raw data is fine – it has been archived!**



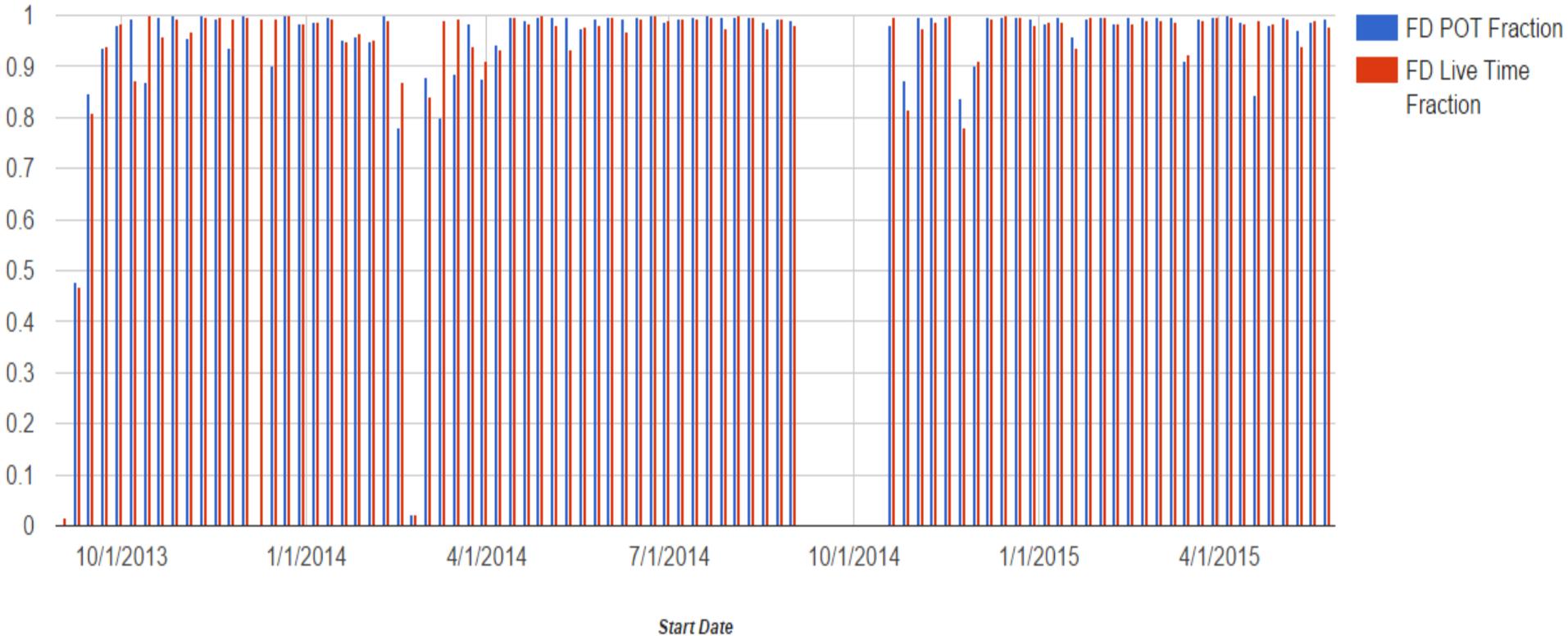
# POT and Live Time Fractions

ND POT fraction and Live Time Fraction



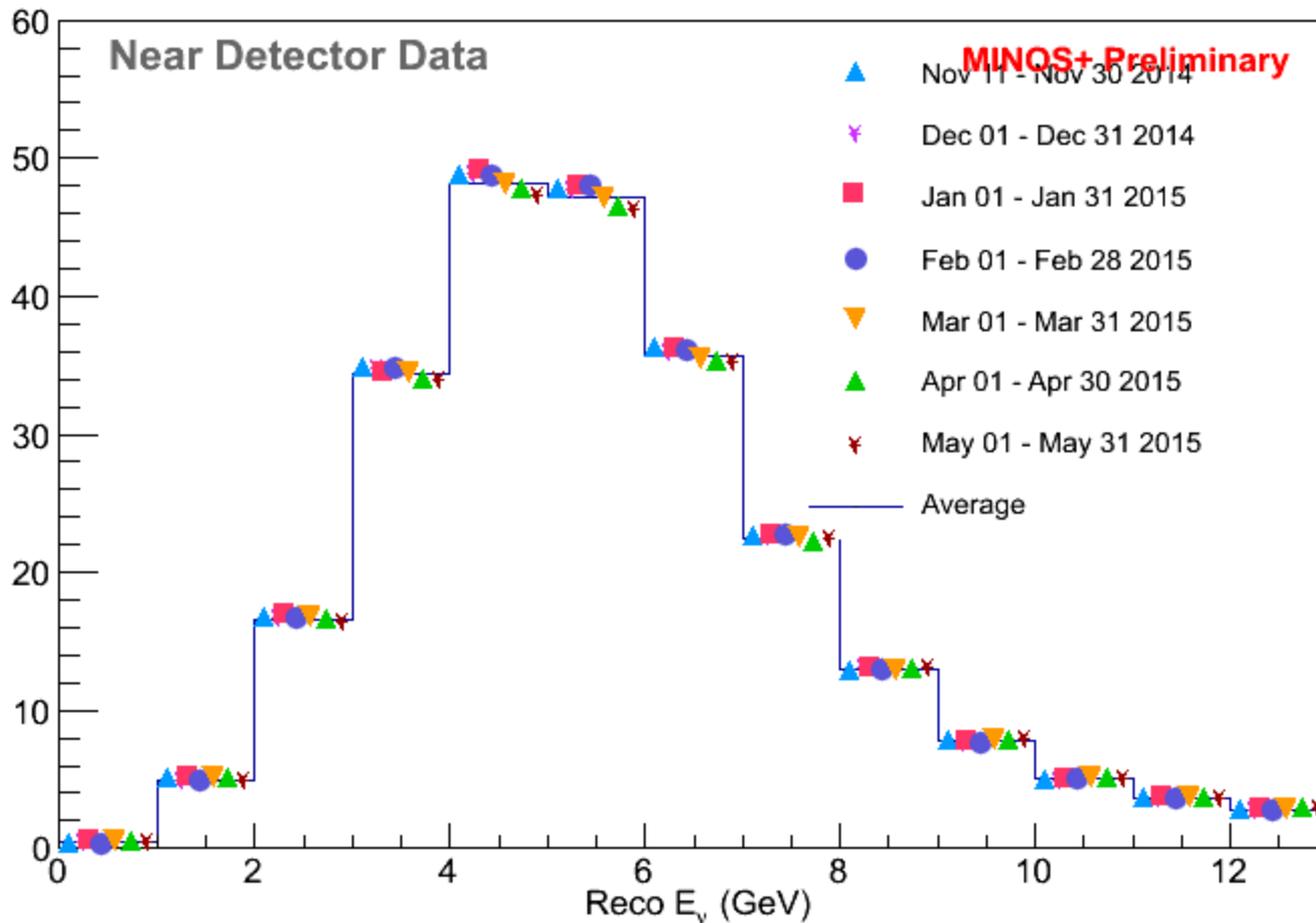
# POT and Live Time Fractions

FD POT Fraction and Live Time Fraction

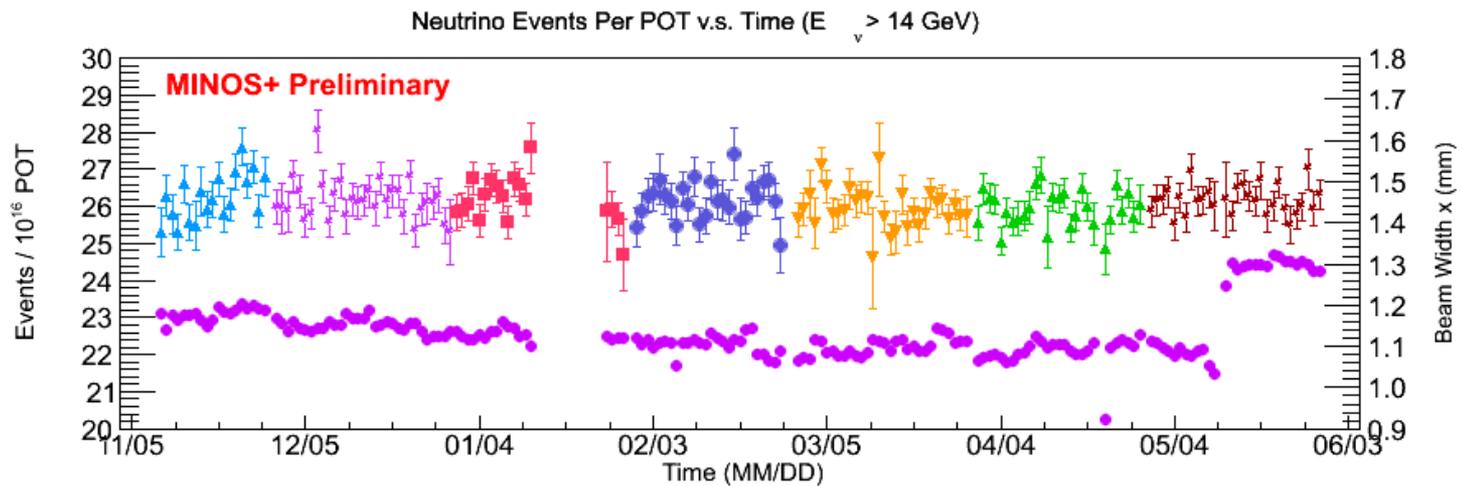
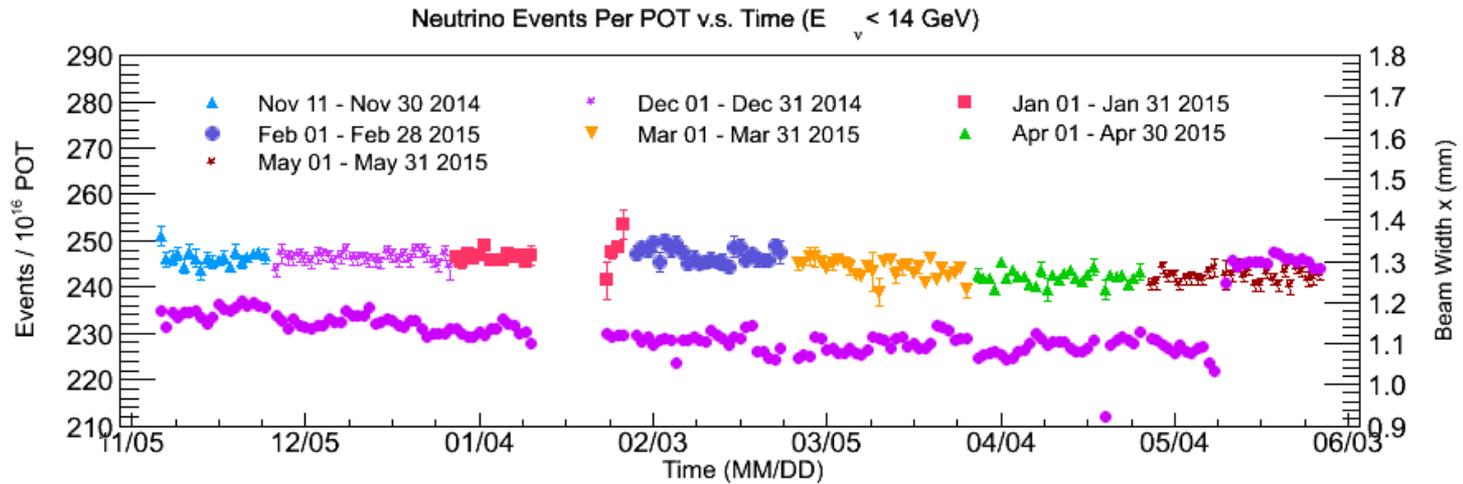


# Data Quality Monitoring

## Neutrino Energy Spectrum Stability (PQ and NQ)



# Data Quality Monitoring



# The Slip-Stacking Intensity Dip

---

- ▶ We had a productive meeting last Friday
  - ▶ No evidence that this is target related
    - ▶ No muon monitor indication – reported from Jim H.
  - ▶ Wearing my Beam Systematics hat, I don't know of any beam effect that would yield this drop in the peak
- ▶ Ashley Timmons produced some slides internal to MINOS that suggests a reconstruction effect
  - ▶ Ongoing investigation
    - ▶ MINOS+ collaboration meeting going on right now in Duluth