



# MINOS+ All Experimenters' Meeting Report

A.P. Schreckenberger  
2015-4-27

# Near Detector

- ▶ Hot channel developed this weekend
  - ▶ Minder swap will be needed at next beam downtime opportunity
- ▶ DAQ crashes on the 24<sup>th</sup> and 21<sup>st</sup>
  - ▶ Quick recovery after resetting of the branch and related processes on error state machine
- ▶ Contact with HV Mainframe 9 lost
  - ▶ Power lost to serial converter box
  - ▶ Recovered in 15 minutes
- ▶ Fan pack failure warning on FEV5
  - ▶ Remote RPS reset cleared error
- ▶ Shutdown work
  - ▶ Rack FEV M8-V4 (ROP1) had troubles
  - ▶ Two masters calibrated
  - ▶ Swapped a warm minder
- ▶ ND magnet tripped on the 21<sup>st</sup> with no faults during downtime
  - ▶ Stephen Hahn was underground at the time - restarted



# Far Detector

---

- ▶ That *one* flat charge injection channel...
- ▶ UPS tested during beam downtime on 21<sup>st</sup>
  - ▶ CI special run also performed during this outage



*The detector is still humming along...*

# MINOS+ Status

---

Start Date/Time	End Date/Time	Near Detector		Far Detector	
		POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
3/30/15 00:00:00	4/6/15 00:00:00	96.2%	96.1%	99.8%	99.6%
4/6/15 00:00:00	4/13/15 00:00:00	94.1%	94.8%	99.9%	99.6%
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%

- ❖ Two things impacted MINOS+ this past week
  - ❖ After power outage, a few ACNET devices came back with GPS-reference timestamps off by one second
    - ❖ Source problem corrected, but IFBEAM DB still has wrong entries
    - ❖ Fix coming in next few days – working on improving communication between AD/CS and experiments
      - ❖ Delay in processing of data as mismatched timestamps lead to data being flagged bad
  - ❖ dCache problems led to issues archiving the raw data from the detectors
- ❖ **All the raw data is fine – it has been archived!**

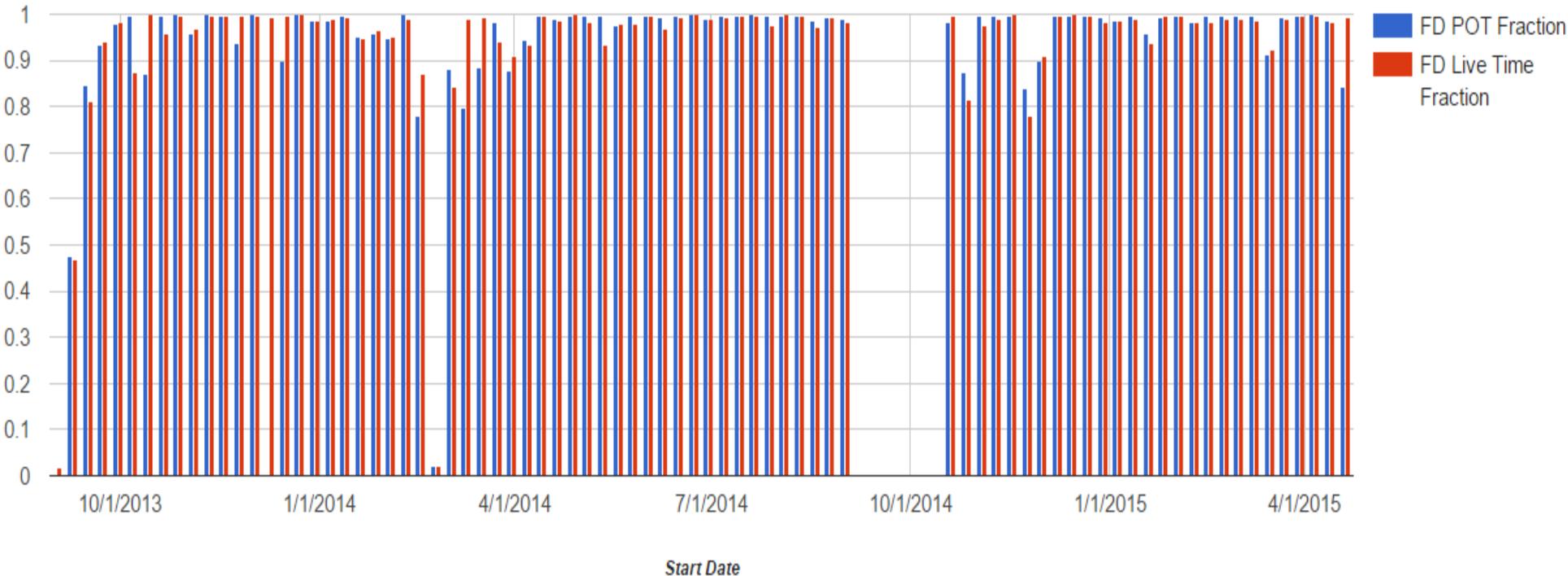
# POT and Live Time Fractions

ND POT fraction and Live Time Fraction



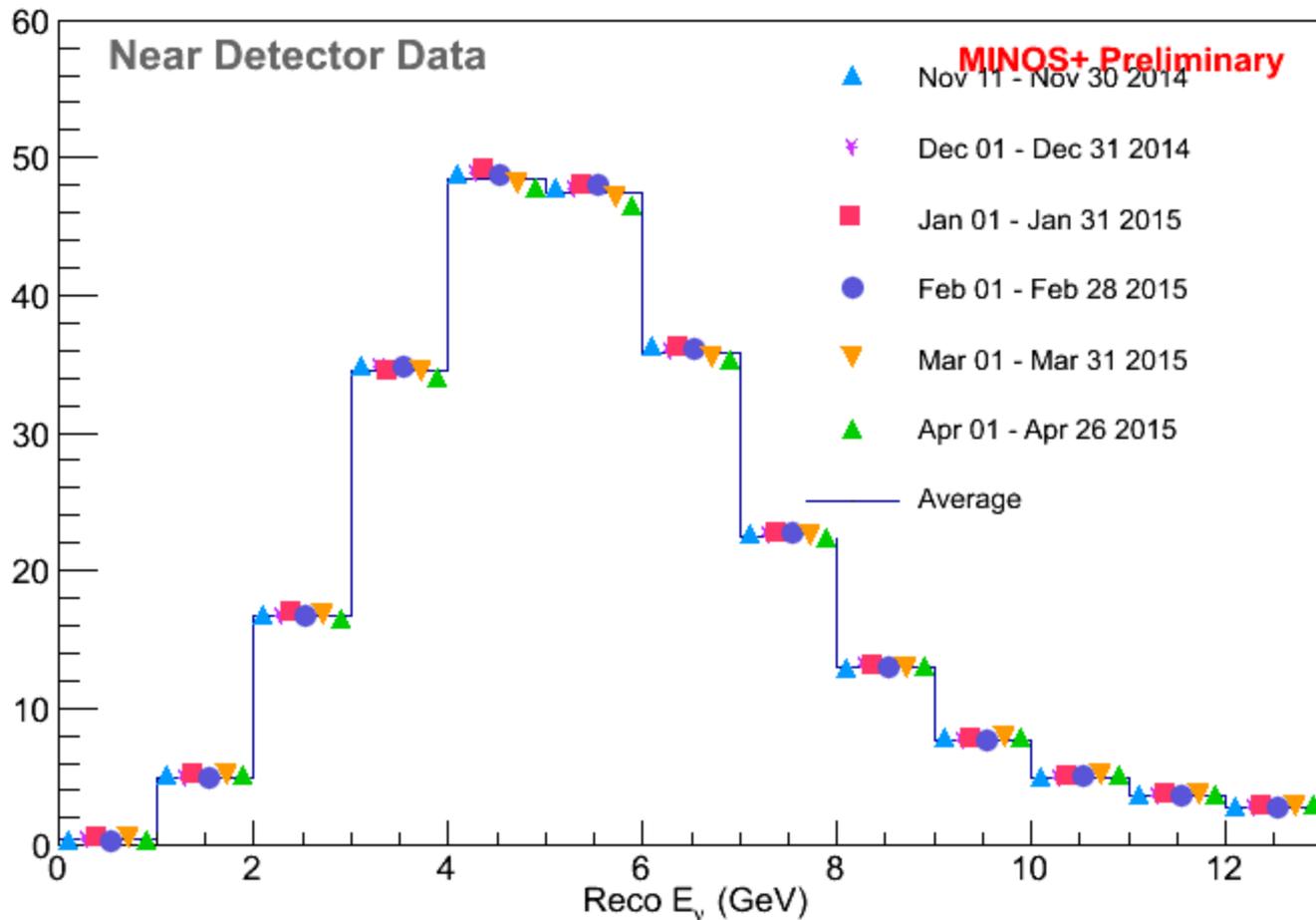
# POT and Live Time Fractions

FD POT Fraction and Live Time Fraction



# Data Quality Monitoring

## Neutrino Energy Spectrum Stability (PQ and NQ)



# Data Quality Monitoring

