MINOS+ All Experimenters' Meeting Report

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2015-5-11

Near Detector

- Unusual minder
  - Reporting as both hot and cold – low rate with a high ADC when pinged
- DCP crash on the 8th
  - Processes restarted and run sequence recovered
- Otherwise quiet week with high livetime

Far Detector

- Rates on one of the FD crates jumped abruptly
  - Traced to 88-Y and 124-Sb sources in a radioactive materials storage chest
  - More lead shielding placed around sources

- CI Special run performed during beam downtime

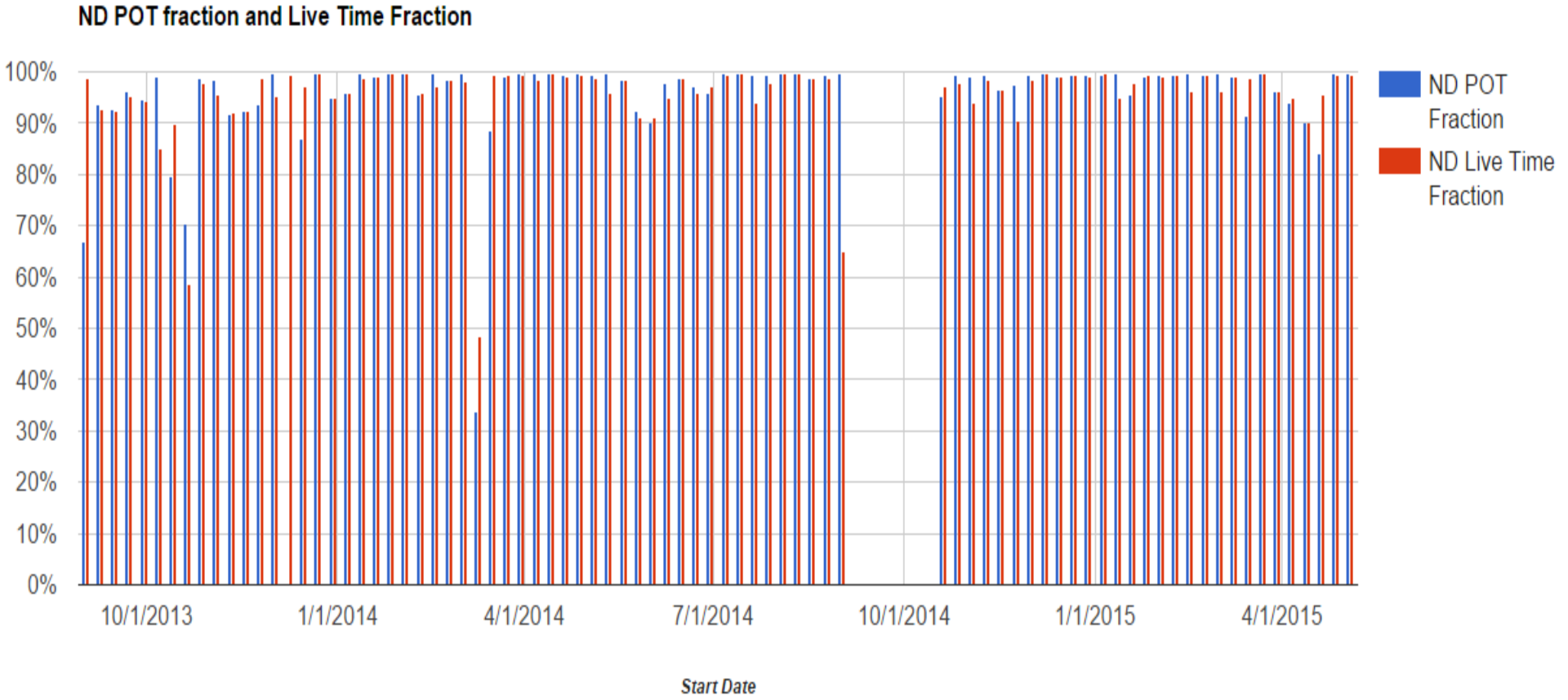
- Detector functioning normally
  - Shifter's words: *Ran like champs…*

MINOS+ Status

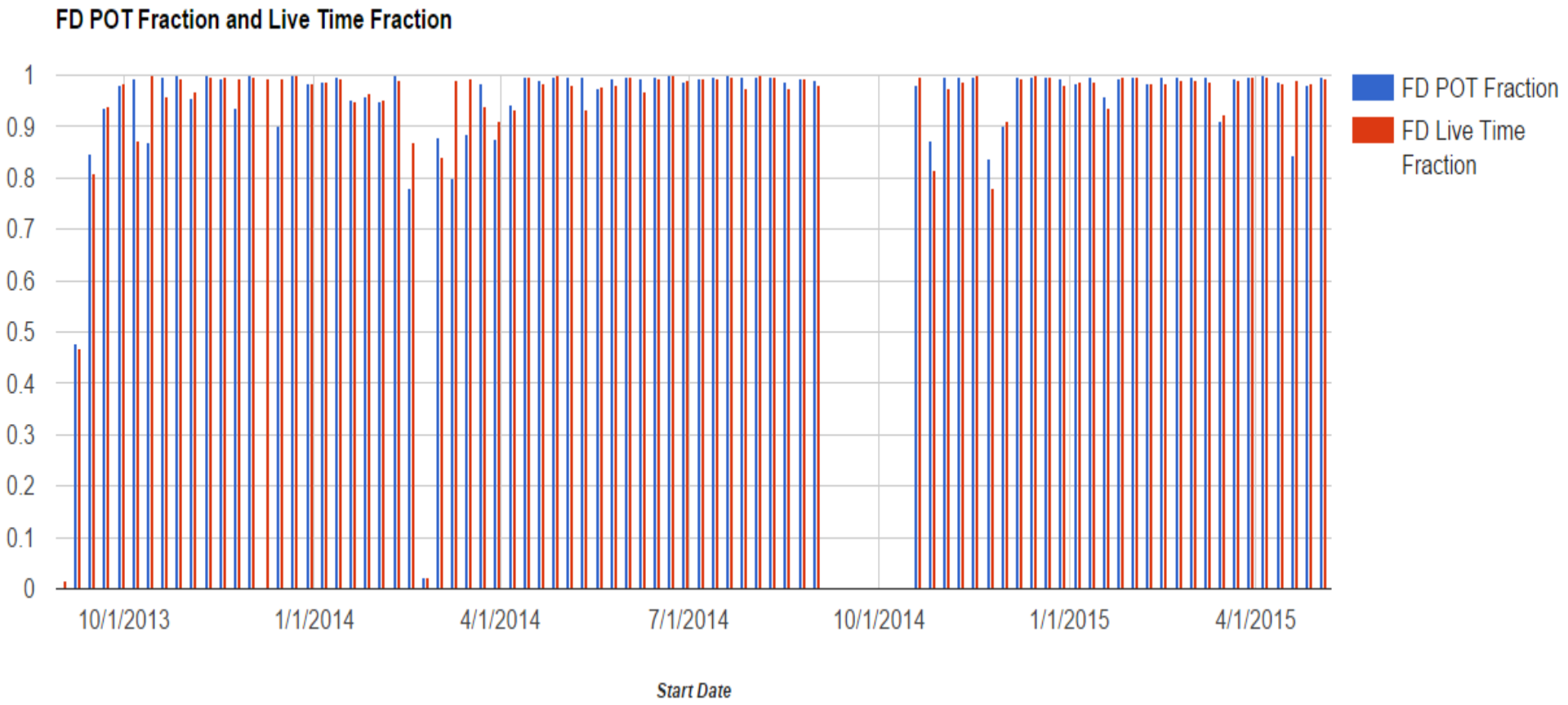
		Near Detector		Far Detector	
Start Date/Time	End Date/Time	POT Fraction	Live Time Fraction	POT Fraction	Live Time Fraction
4/13/15 00:00:00	4/20/15 00:00:00	90.2%	90.4%	98.7%	98.4%
4/20/15 00:00:00	4/27/15 00:00:00	84.0%	95.7%	84.4%	99.2%
4/27/15 00:00:00	5/4/15 00:00:00	99.8%	99.4%	98.7%	98.3%
5/4/15 00:00:00	5/11/15 00:00:00	99.6%	99.4%	99.8%	99.5%

- Still in process of recovering from ACNET issue during week of 4/20
- **Again, all the raw data is fine – it has been archived!**

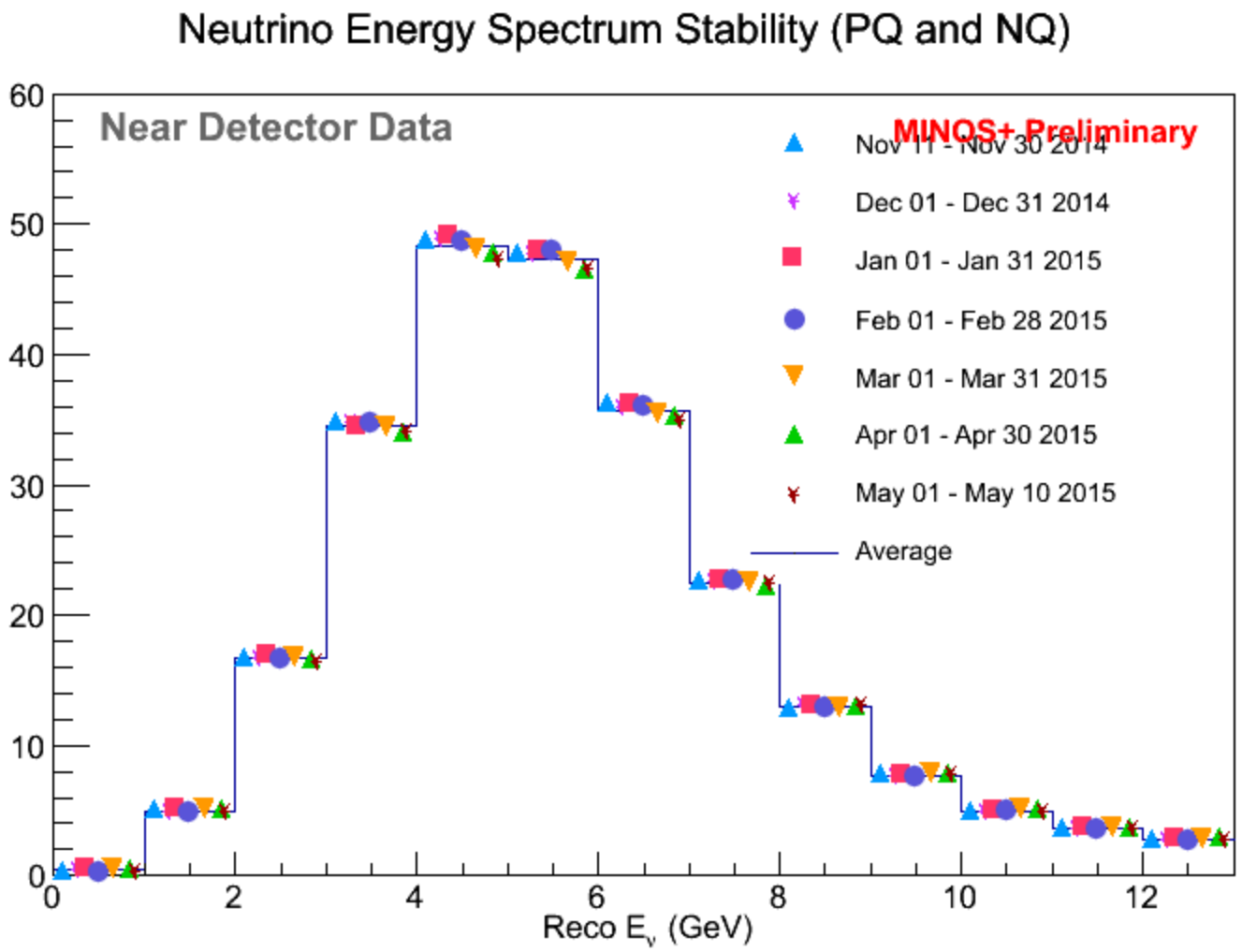
POT and Live Time Fractions



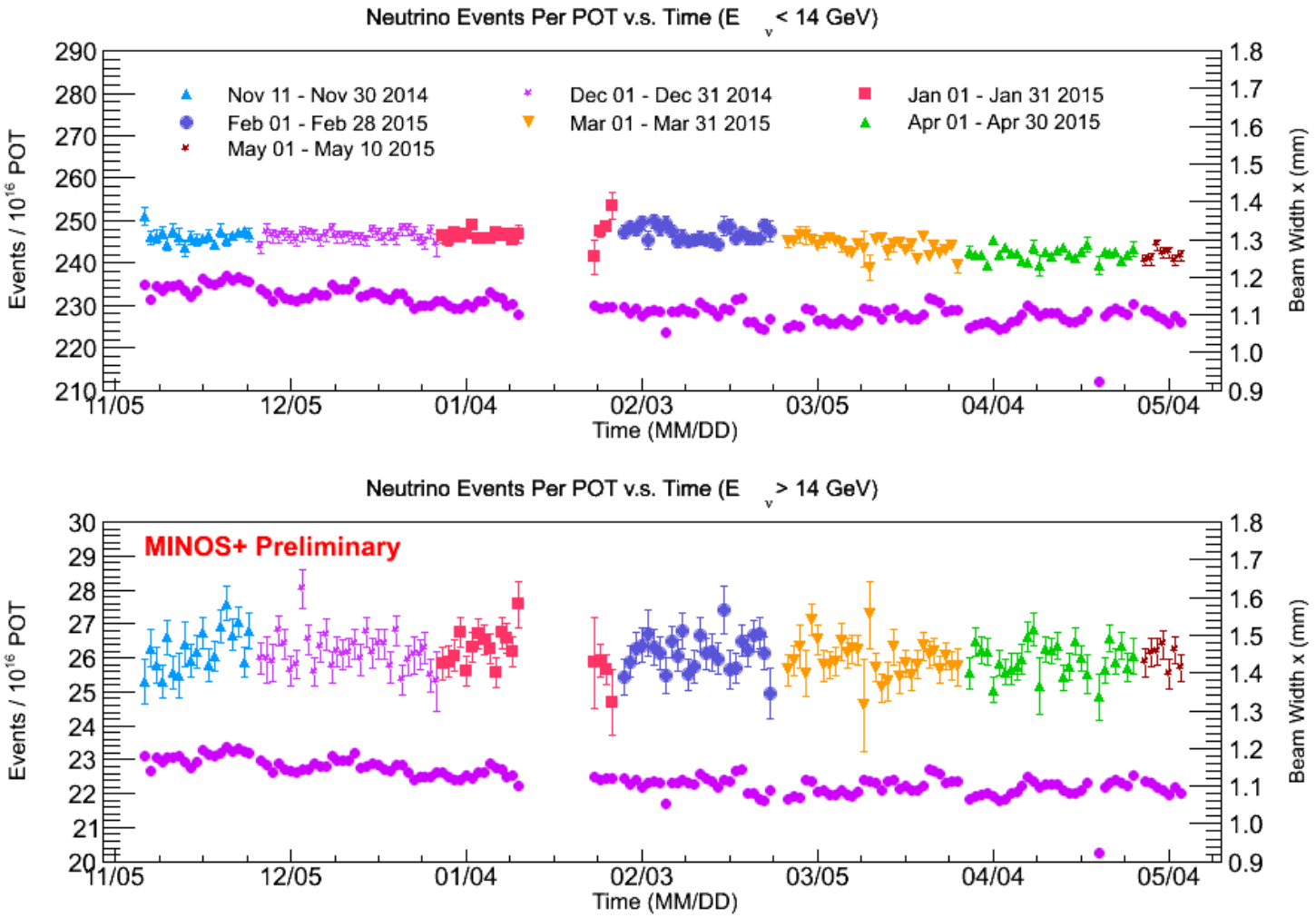
POT and Live Time Fractions



Data Quality Monitoring

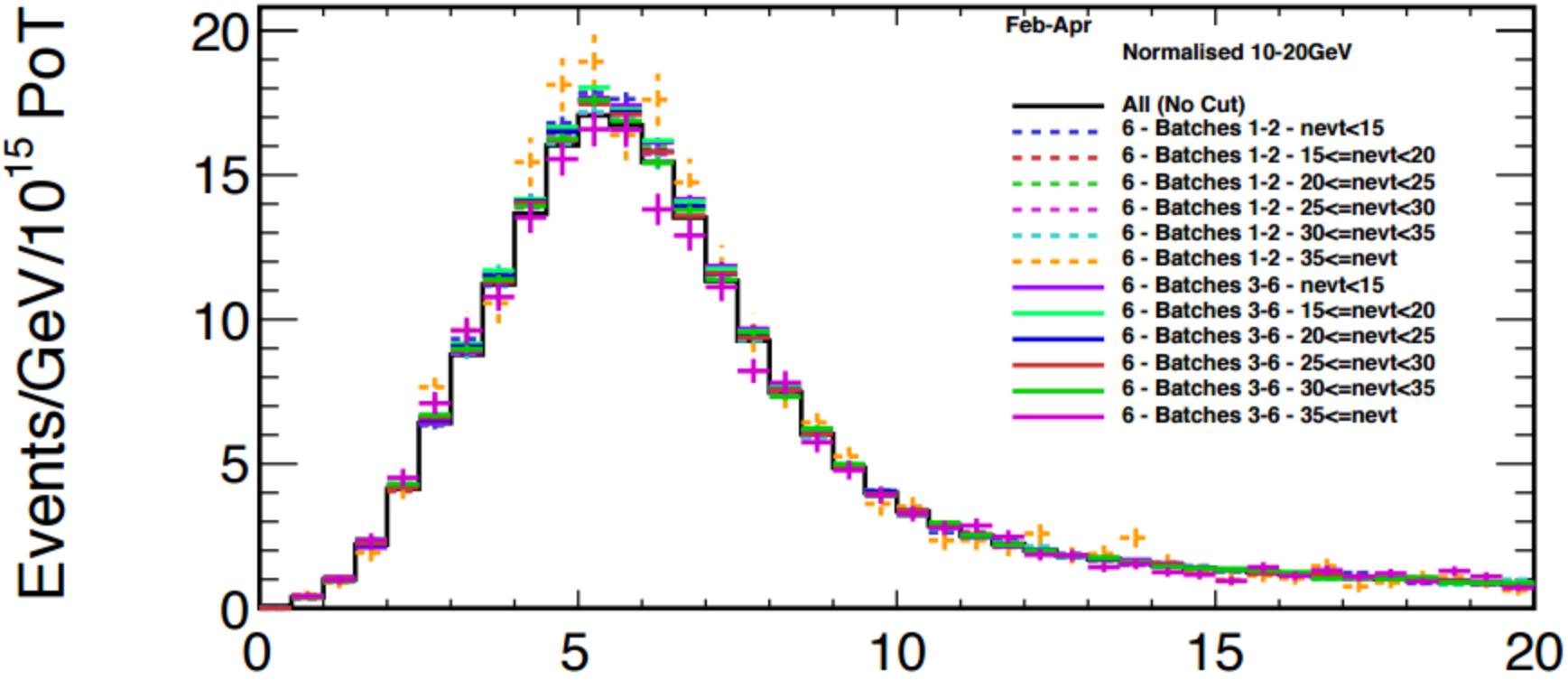


Data Quality Monitoring



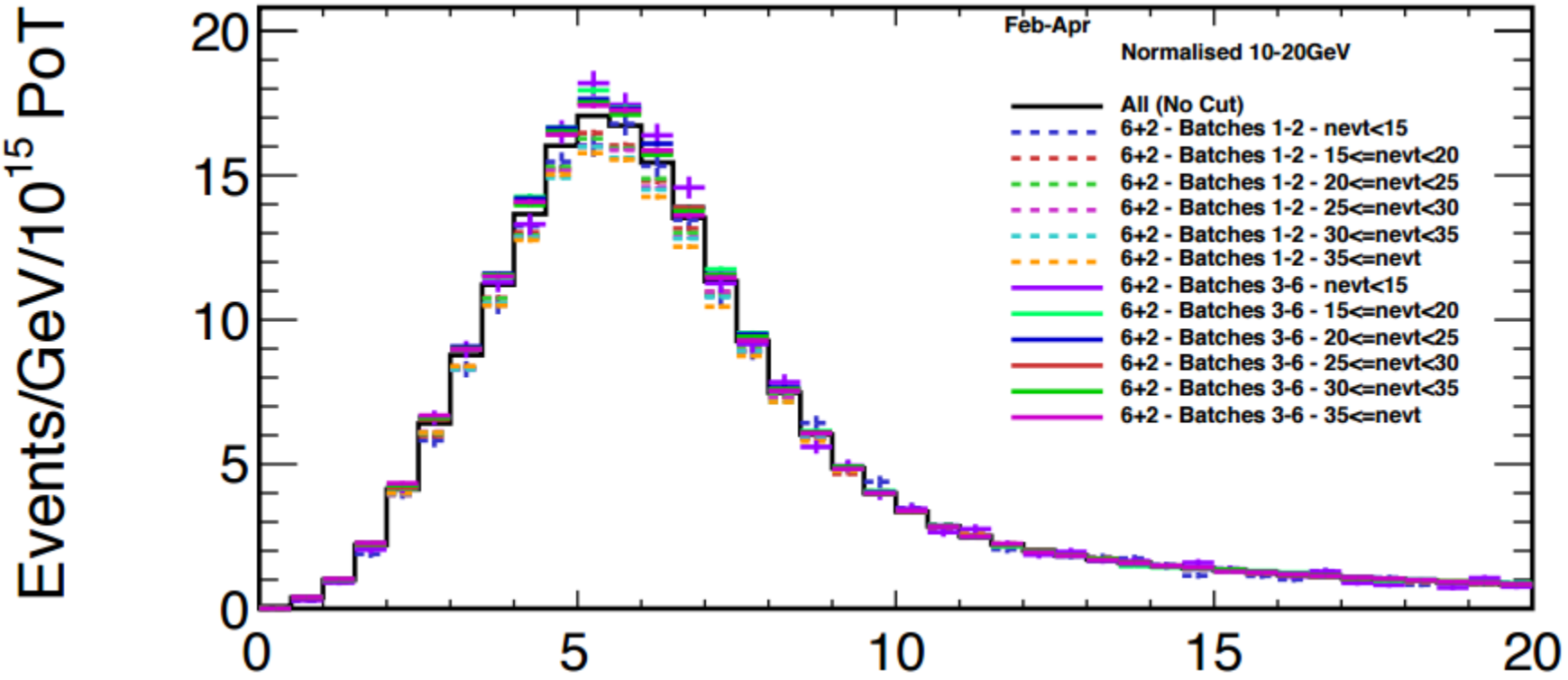
Intensity Investigation by Batches

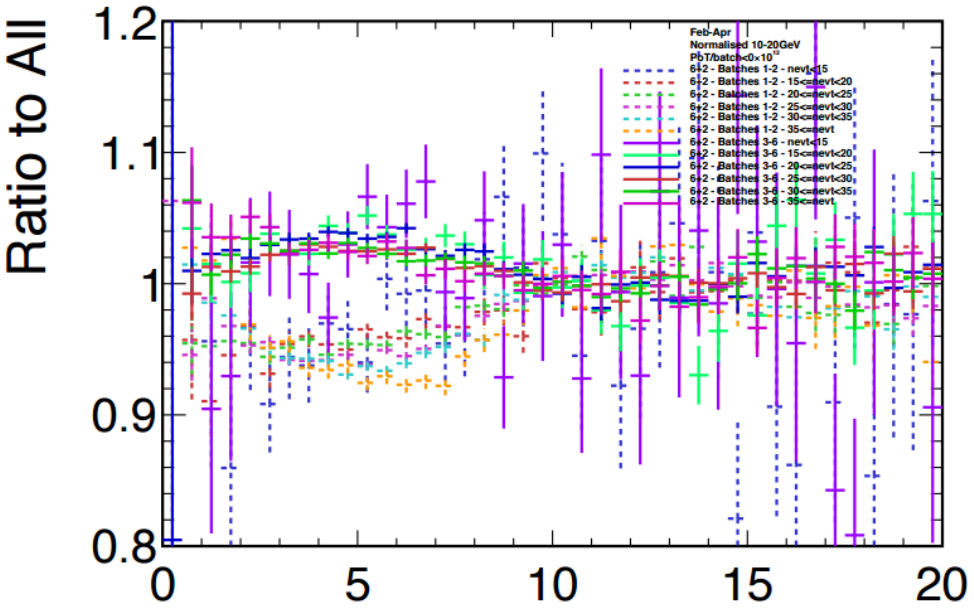
- Energy spectrum (from Ryan Nichol) ***without*** slip stacking
  - No trend seen in event rate as a function of grouping



Intensity Investigation by Batches

- Energy spectrum (from Ryan Nichol) ***with*** slip stacking
  - Clear separation between batches 1-2 & 3-6



Intensity Investigation by Batches

- Take away: an effect exists that yields a decreased event rate in the beam peak in slip-stacked beam
  - This effect is not described by the MINOS/MINOS+ simulation
  - No currently used systematic describes this effect
  - Need accelerator crew to help develop a plan to investigate
    - Already talking with Phil A. about options