

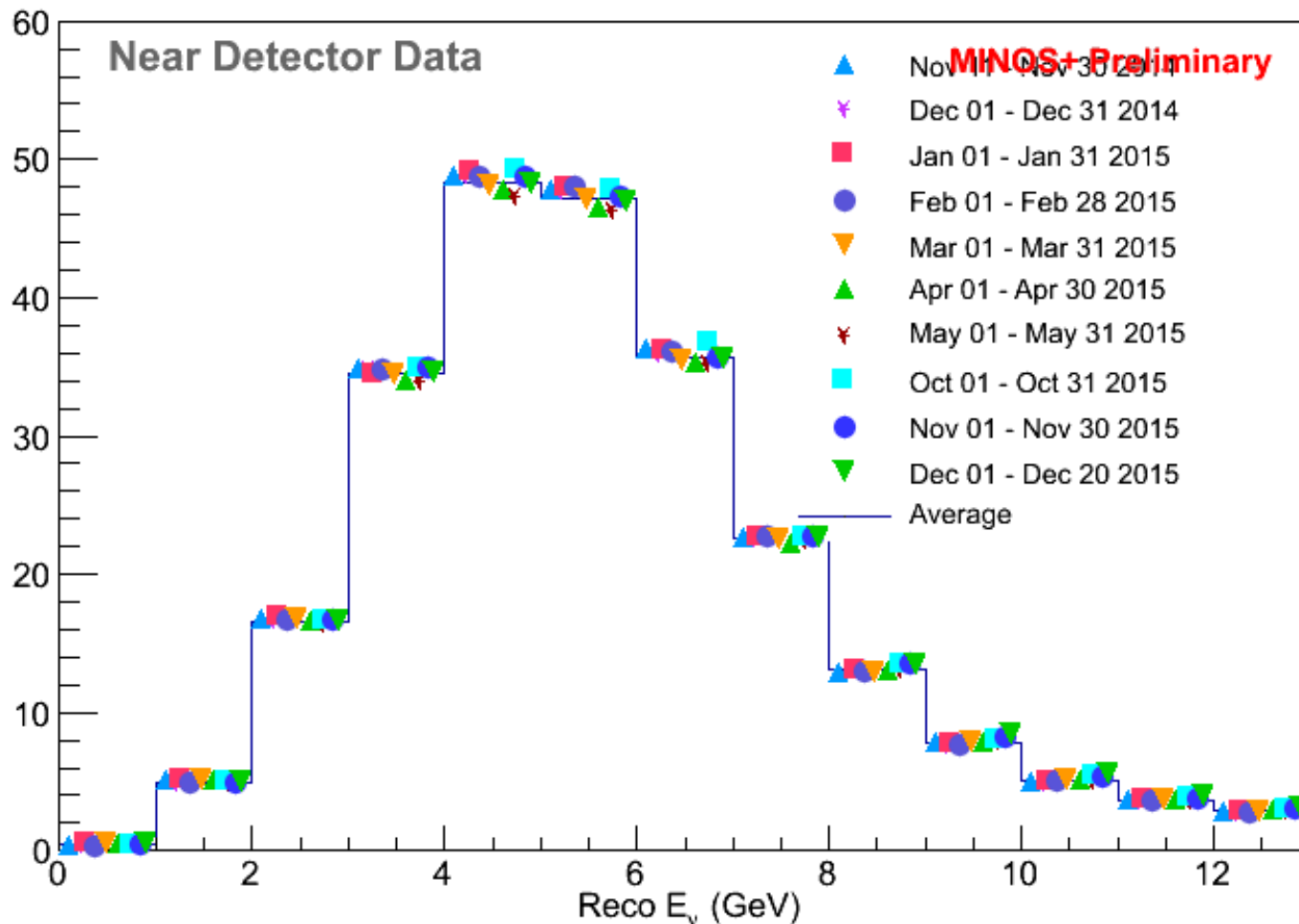
MINOS+ Beam Observations

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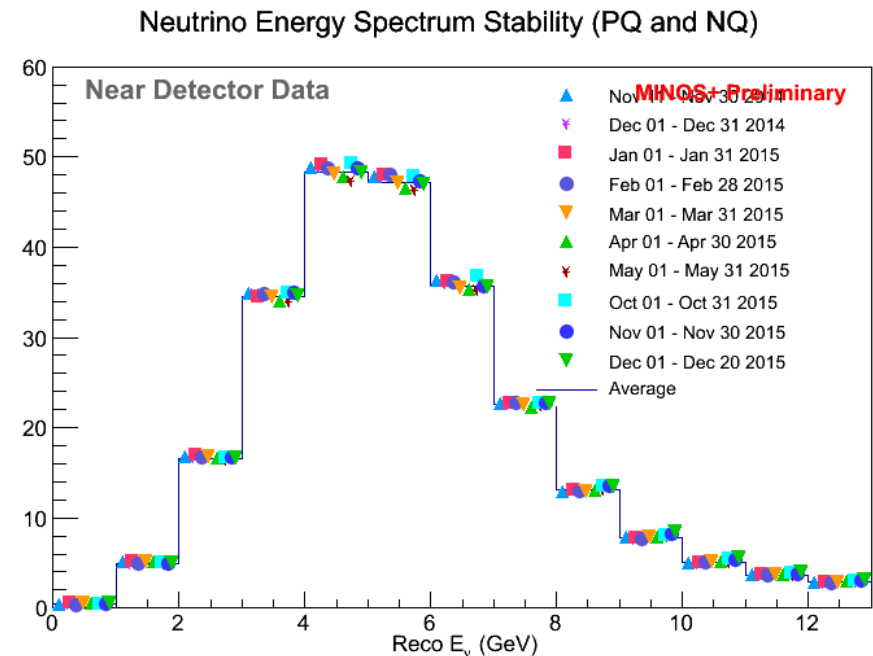
Spectrum Stability

Neutrino Energy Spectrum Stability (PQ and NQ)

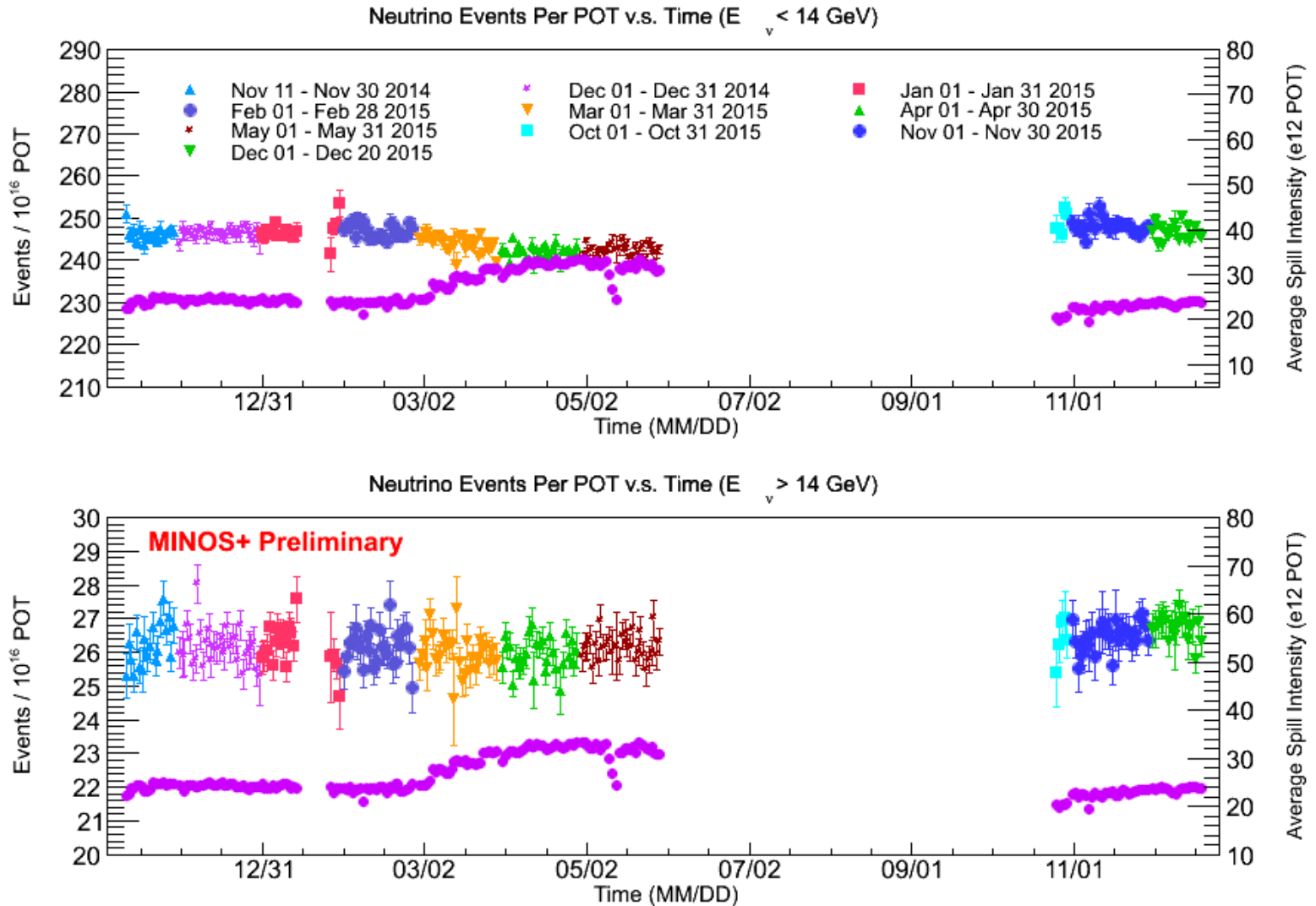


Spectrum Stability

- ▶ Muon neutrino CC spectrum
- ▶ Dip in the beam peak during RP XII generated concerns that the target was degrading
 - ▶ Now understood to be a MINOS detector occupancy issue
- ▶ The beam is fine
 - ▶ Evidence of this is seen in the 'bounce-back' in the spectrum with the start of the latest run period
 - No slip-stacking at start = the occupancy issue reverts to 2014 condition



A Different View



Takeaway

- ▶ Again, we see the event rate in MINOS is dependent upon intensity
 - ▶ When beam returned with slip-stacking off, the rates returned to 'standard' levels
 - ▶ View – at least from the MINOS batch processing group – is that beam is in good health

- ▶ So... we will happily take your protons. 😊