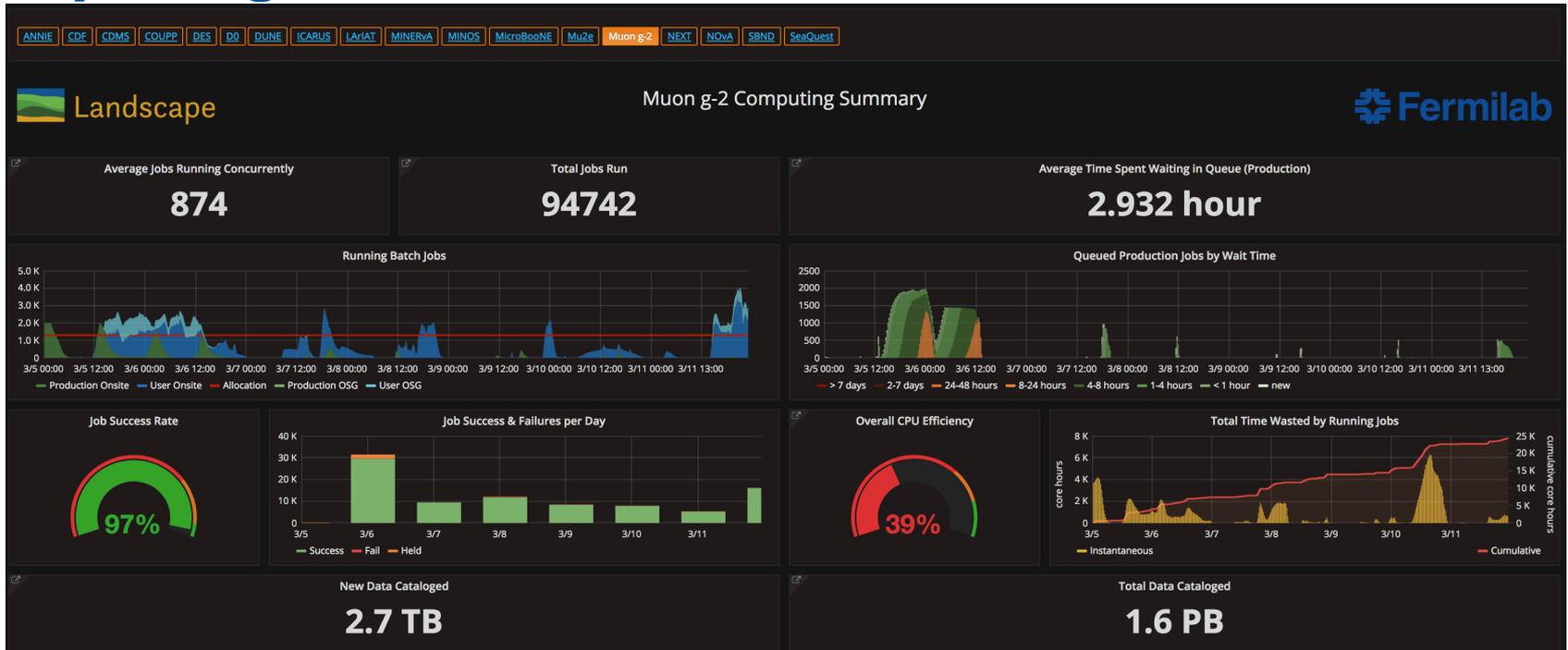


# Muon $g-2$ AEM Update

Brendan Kiburg, Jarek Kasper  
Mar 12, 2018

# Computing



- Resumed collecting beam data files last week
- Improvements from the unpacking multithreading fix
- Reprocessed an older dataset w/ wrong map, so jobs failed
- Reprocessed again Sunday w/ appropriate modules

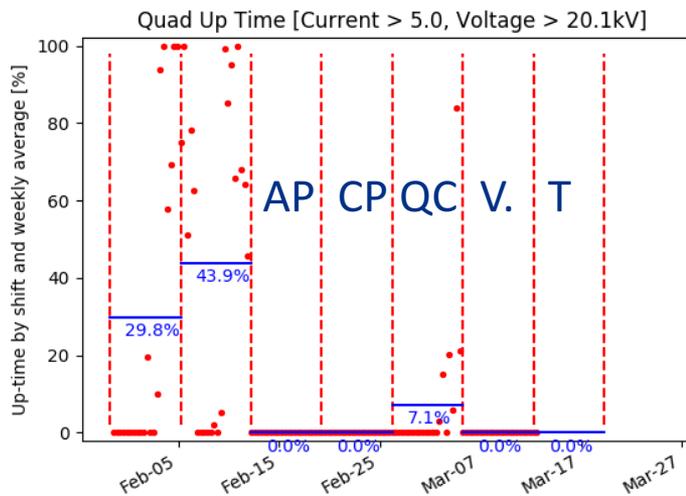
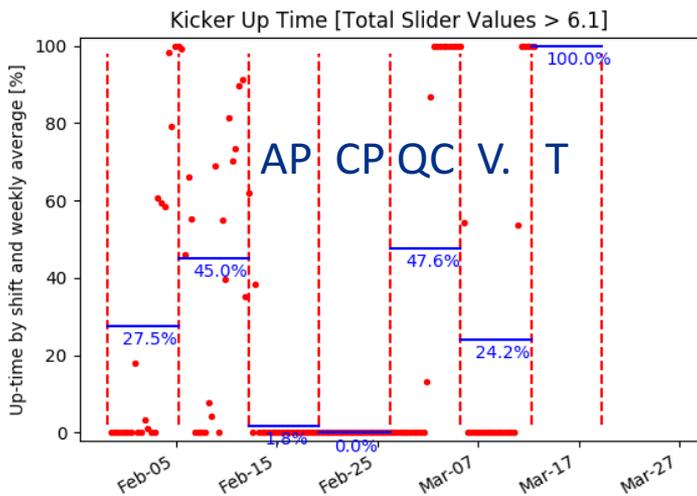
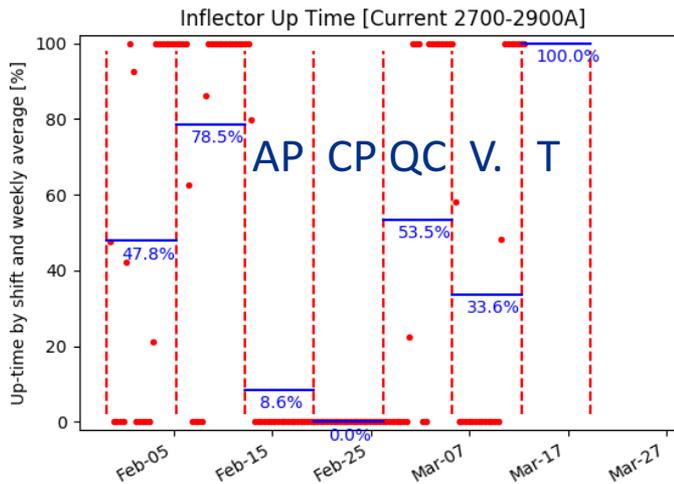
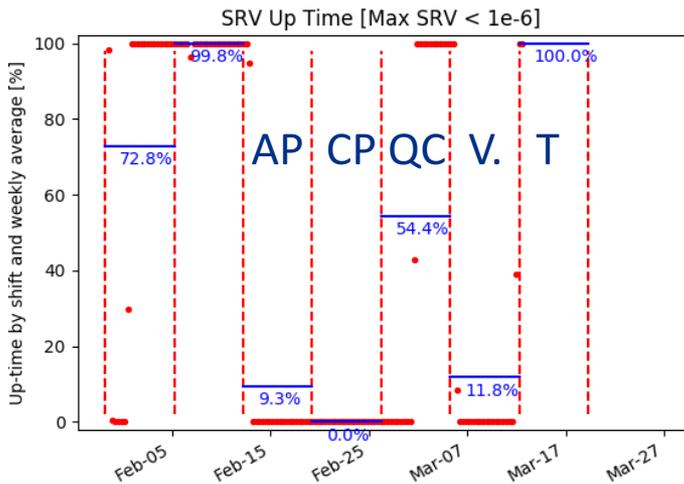
# Work last week

- Quad conditioning last weekend → developed some problems with the quad pulsing cabinets
- Electrical issue with quad leads (Q4)
- Opened SRV to inspect
  - Intermittent electrical contact on Q4Short → Repaired
  - Trolley clearance problem with a loose bellow near the inflector
  - Performed quality control on this collimator bellow junction

# Status

- Pumped down @ end of week
  - Vacuum coming down as expected
  - Quads being conditioned at reasonable rate
- Full trolley run with magnetic field Fri Eve
- Search and Secure Saturday
  - Re-established beam
  - Jim Morgan did 2 nice tuning sessions to get e+/fill near previous peaks (mid January)
  - Ran experiment stably with kickers nominal, quads at 15 kV
- Conditioning continues to be able to run stably at 20.2 kV
- Calorimeter templates being collected with beam

# Trend Plots Ring



-----KEY-----

AP – Absolute Probe Install

CP – Cryopump Incident

QC – Quad conditioning

V– Elec/Mech work in vac

T - Tuning

Kickers/Magnets on quickly when SRV is available.

# Trend Plots DAQ

AP – Absolute  
Probe Install

CP –  
Cryopump  
Incident

QC – Quad  
conditioning

V– Elec/Mech  
work in vac

T - Tuning

Lots of DAQ tests/studies during  
downtime. > 80% when trying to  
run stably

Muon g-2

March 12, 2018

