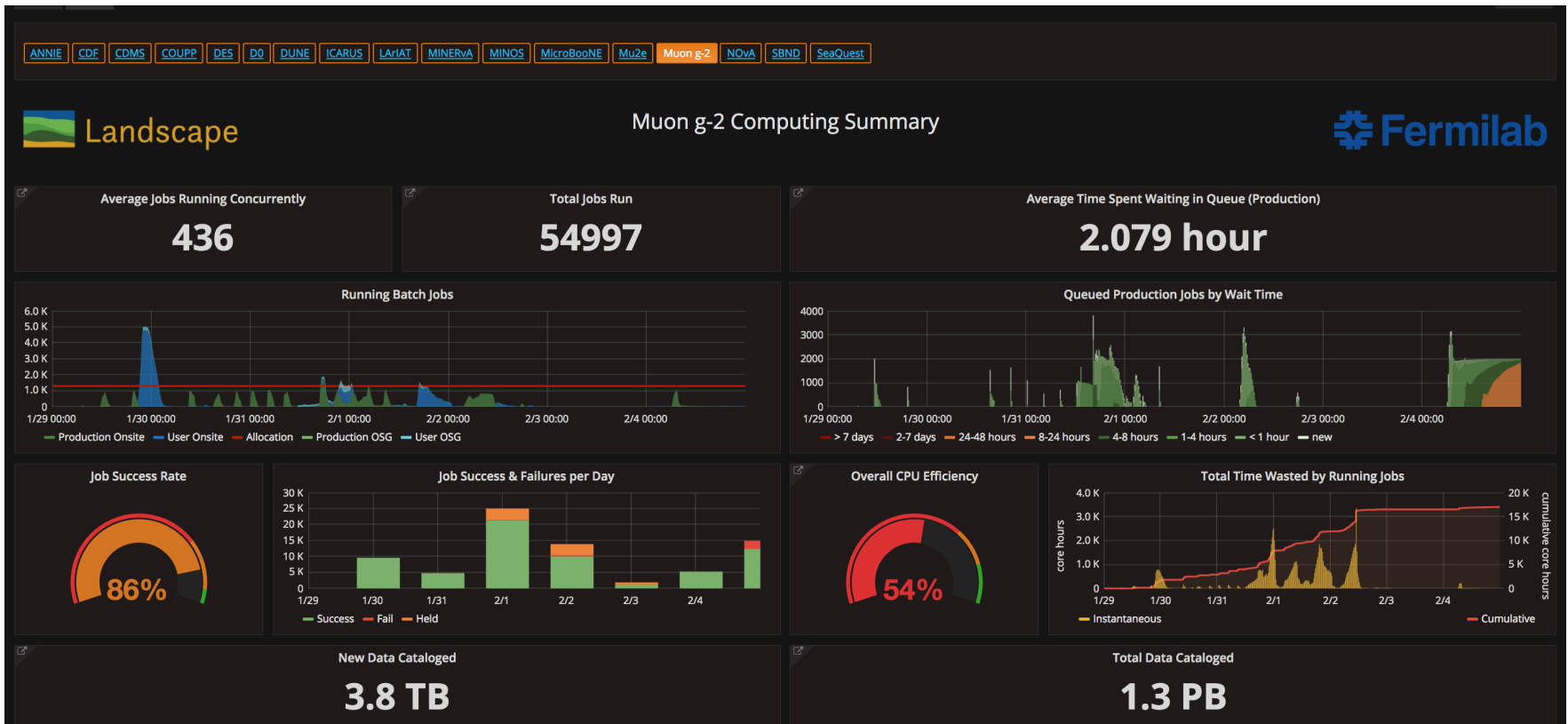


# Muon $g-2$ BAM Update

Brendan Kiburg, Jarek Kasper  
Feb 5, 2018

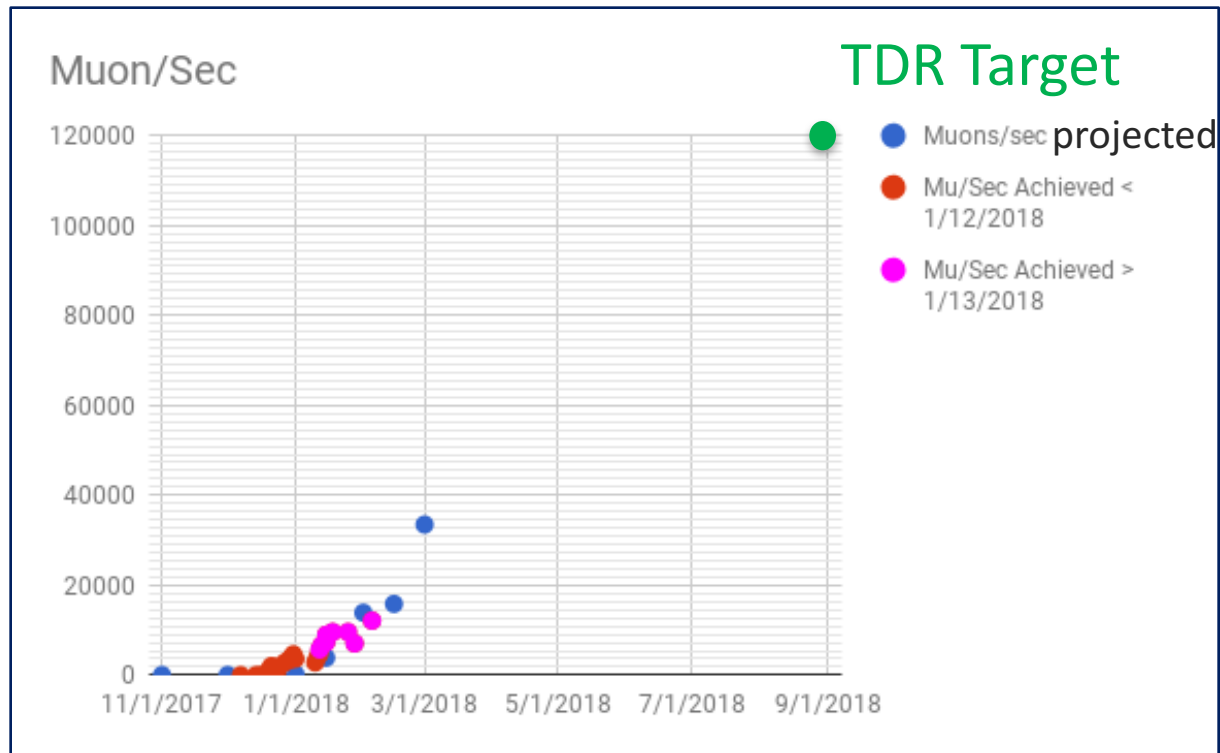
# Computing summary

combination of data processing/reprocessing/MC production



# Muons/sec

- Rough week last week (trolley, Storage ring vacuum, magnet)
- Stable over weekend
- 16-pulse tests today successful (reached  $\sim 10\text{Hz}$  wrt  $11.4\text{ Hz}$  design)



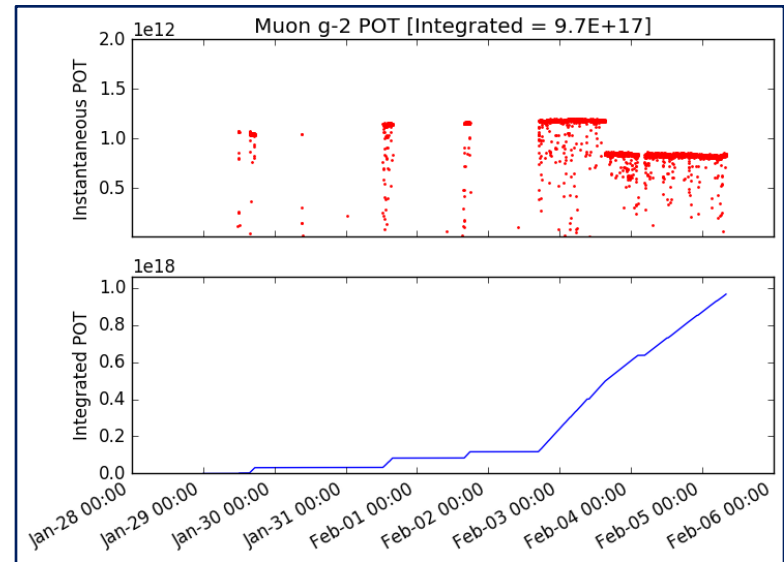
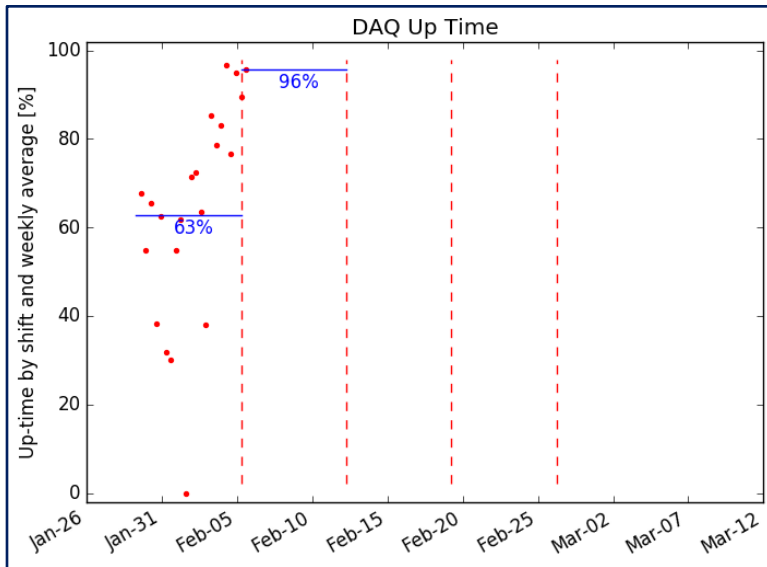
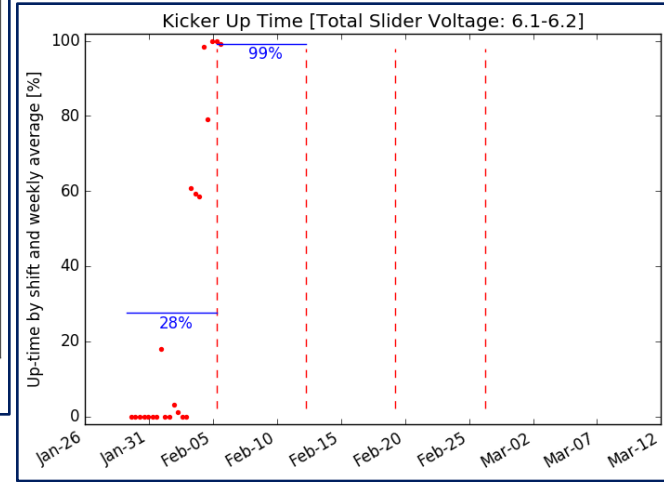
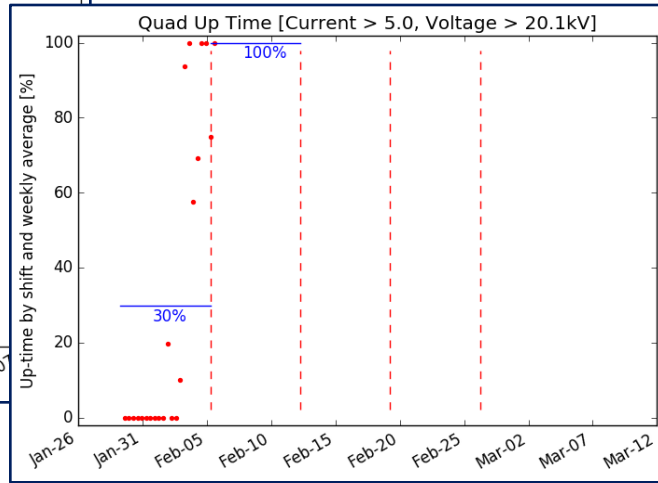
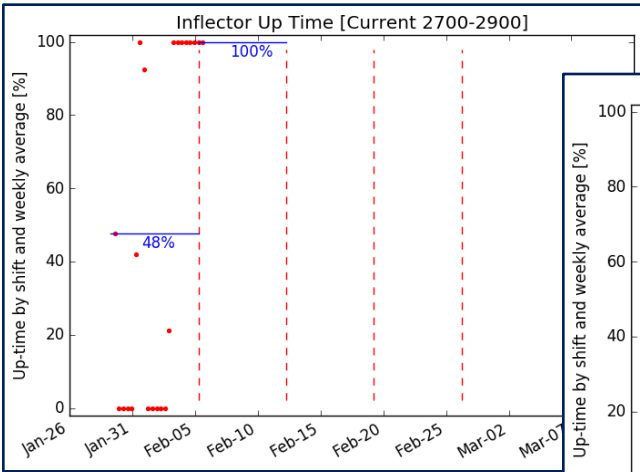
# Last Week's Issues

- Monday: Storage Ring Vacuum Access
  - Trolley garage was repaired → reinstalled
- Tuesday: Recovery
  - Very Smooth vacuum pump down
  - Problems recovering quads
- Wednesday:
  - On Owl shift: \$A6 beam signal from HRM → our Trigger was malformed → DAQ crashes all night → addressed by morning
  - Resumed recovering quads

# Last Week's Issues

- Wednesday (cont) → Thursday
  - 3:20 pm Magnet lost cryo permit → Slow Dump to extract energy → Quench from 85% power.
    - Procedure error, communication problem
    - Equipment Checkout
    - Had to recover some pressure sensors
    - Quench Review
    - Improve procedures and communication. Schedule any cryo work for magnet down time
- Friday → Sunday
  - Started bringing magnet back up
  - Recovered Quads quickly
  - Some weekend beam, tracker, quad and field studies + 10 hours stable production

# Various Up Time Plots



# This week

- 16 pulse tests
- Finalize Magnet off work for Feb
- Absolute calibration
- Final loose ends + switch to production data collection

