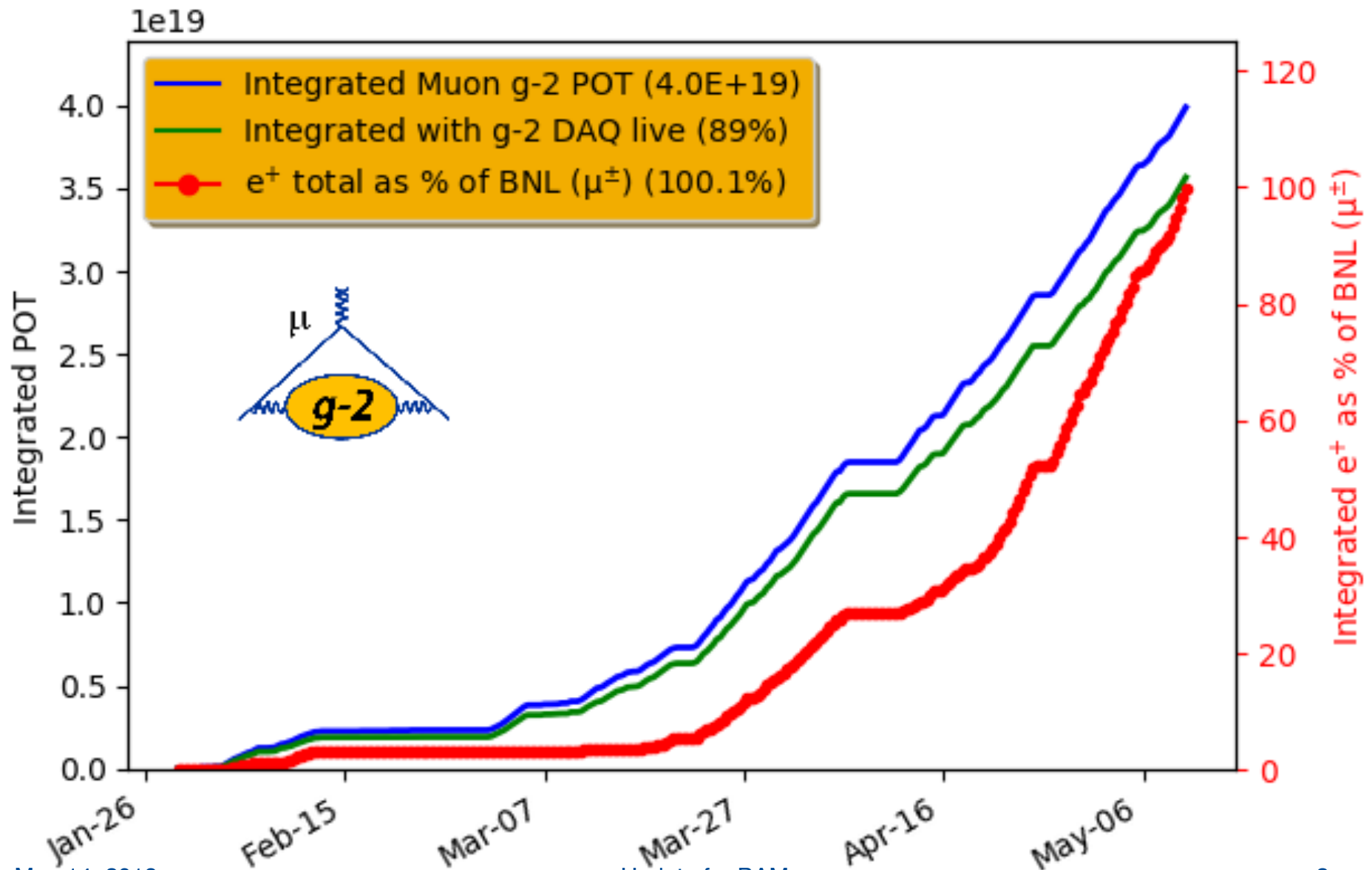


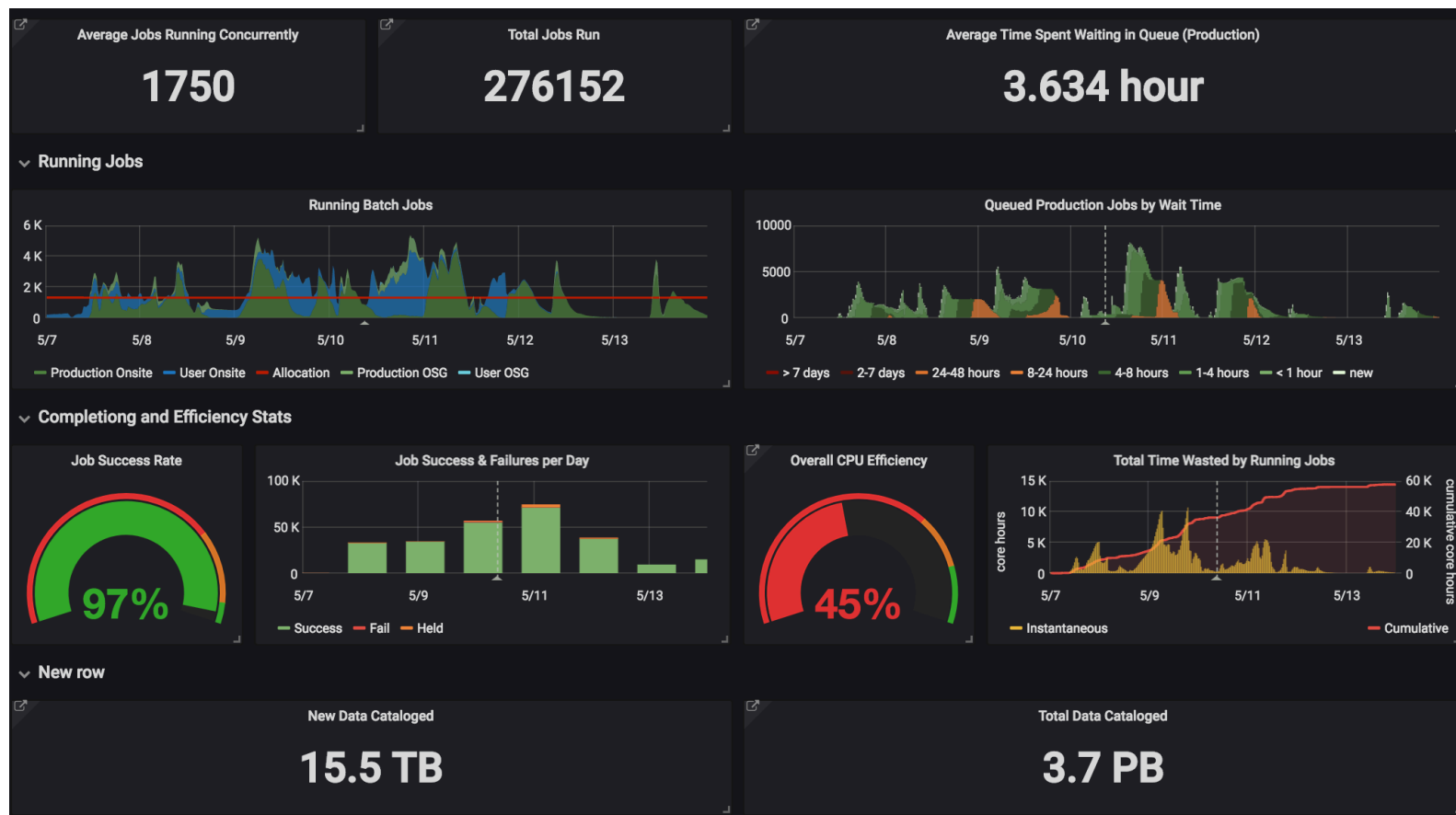
# Muon $g-2$ AEM Update

Brendan Kiburg, Jarek Kaspar  
May 14, 2018

# 1.0xBNL statistics reached on Thu 5/10



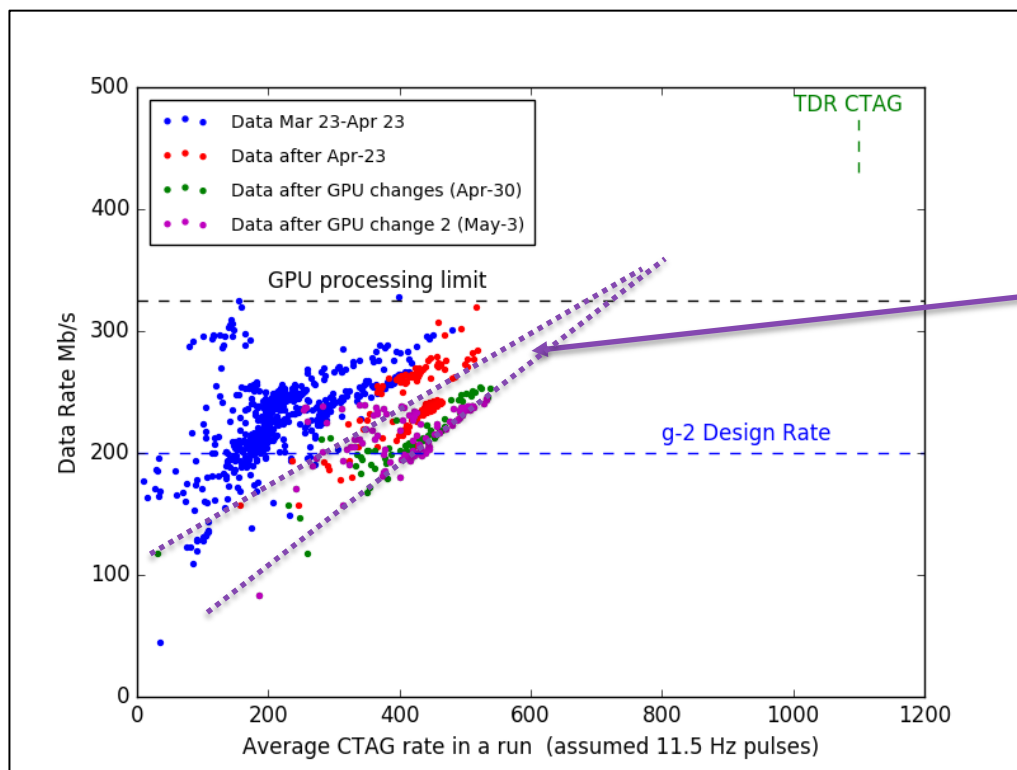
# Computing



- Efficiency improved with a new software release
- Issues with writing and reading from the tapes resolved, data reconstruction running again

# Our DAQ can handle the design rate

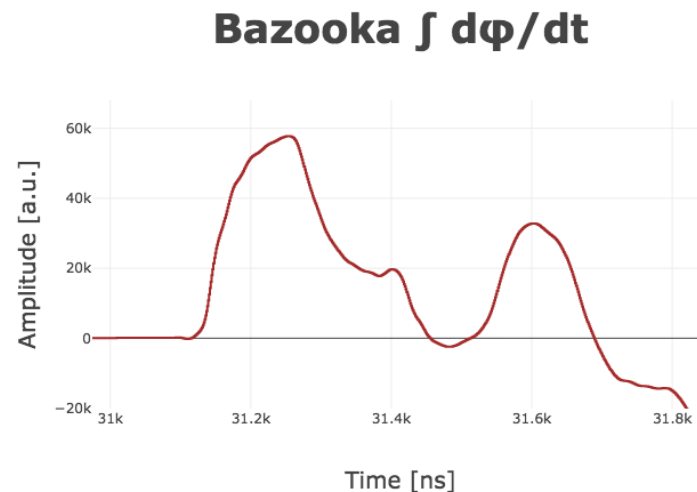
Further optimization in progress to improve on GPU processing time and the data size.



The Online DAQ is running well below the GPU limit

# Last Thursday – Resistor Issues

- Kickers were observed to have ugly pulse shapes
  - Corresponding CTAG drop



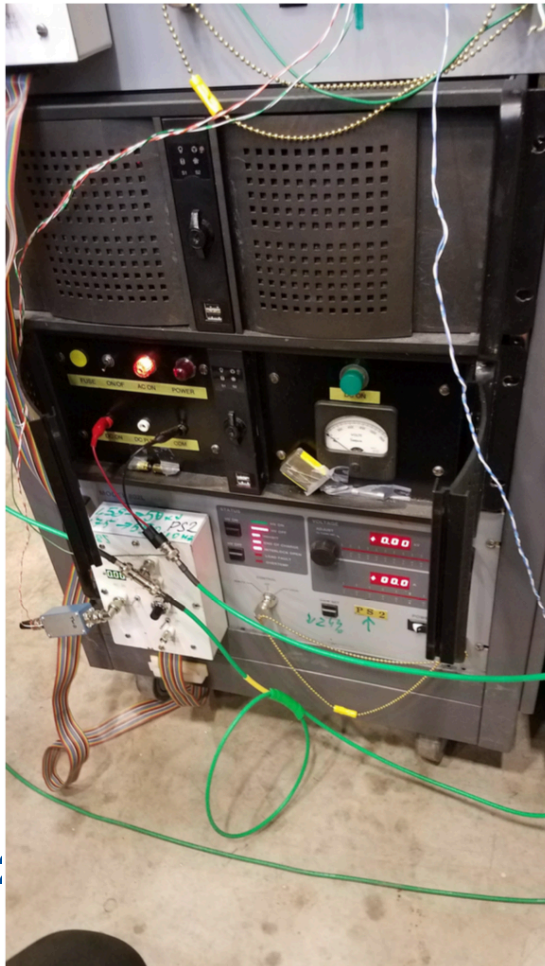
- Friday, during AD downtime, opened up and found resistor in awful shape
- Replaced Resistors, cleaned fluorinert chillers, recovered old pulse shape friday





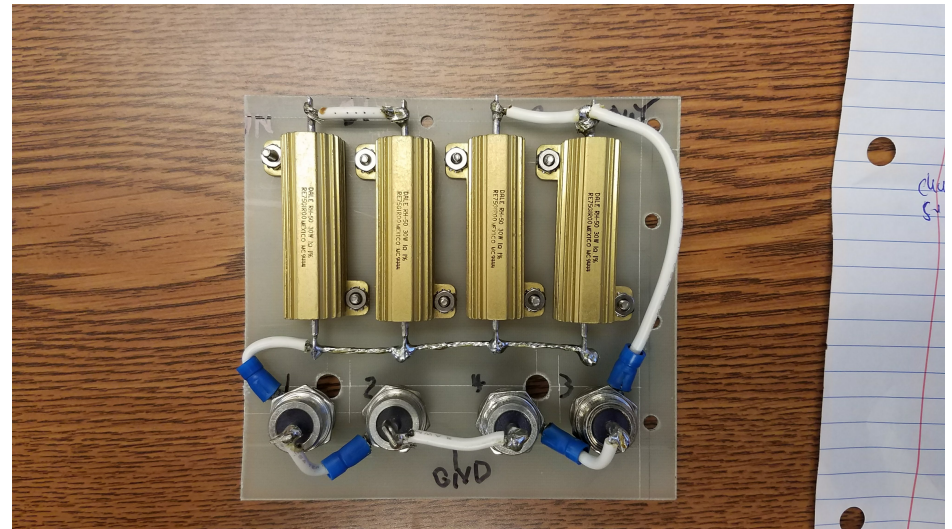
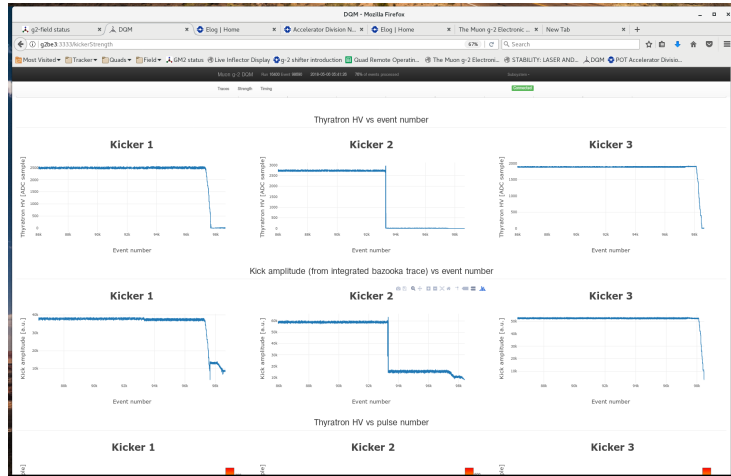
# Kicker 2 capacitor bank

Blown fuse on the output of the capacitor bank (transformer primary), which at the beginning looked like a problem with the charging power supply.



# Fuse Issues

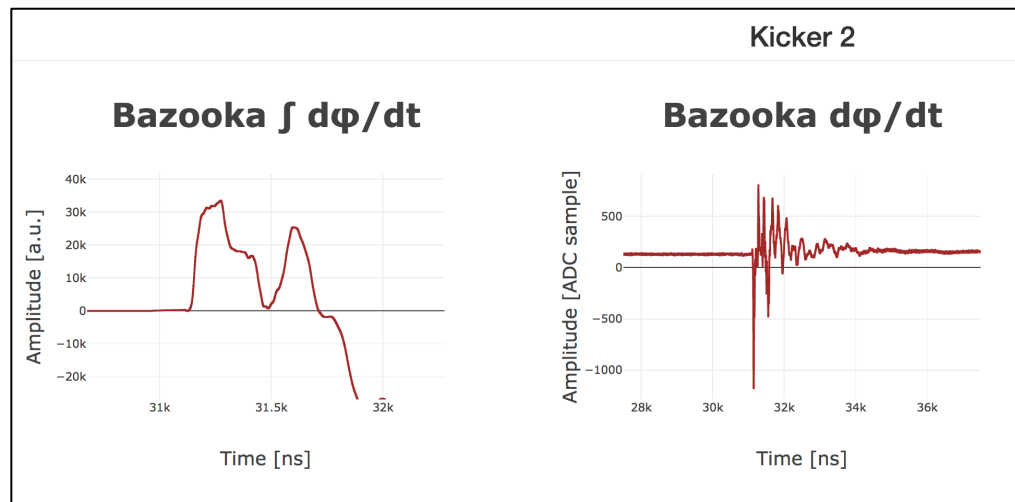
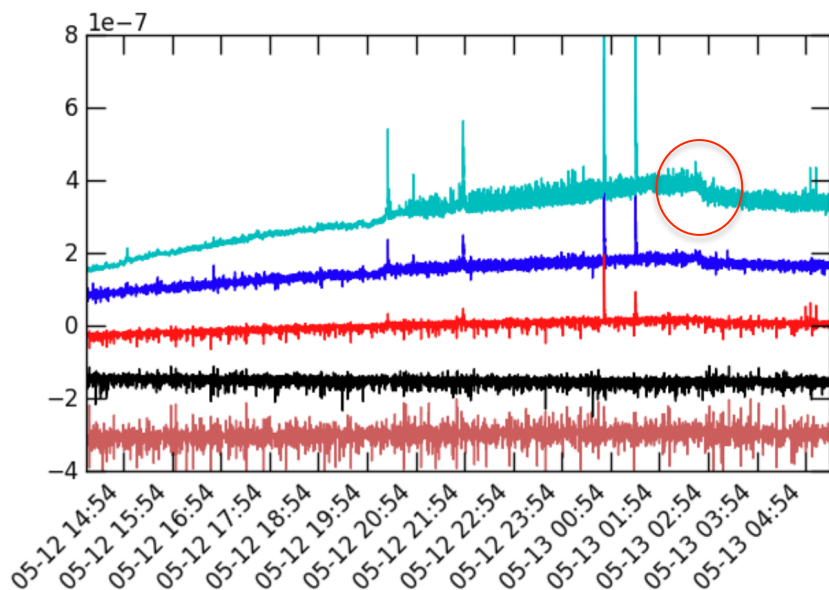
- First Occurrence 8 days ago Sunday 5:30 am



- Thursday 3:50 pm, replaced, then 2x on Sat morning
- Improved dumping, and protection of the input of the capacitor bank, and output of the power supply

# Saw degradation in dphi/dt trace again

- Looks even worse than before
- Decided to call it → switch to field. Examine today.`





# Kicker/SRV issues

- Burned 2 resistors
- Didn't find a problem in vacuum

