

# Muon $g-2$ AEM Update

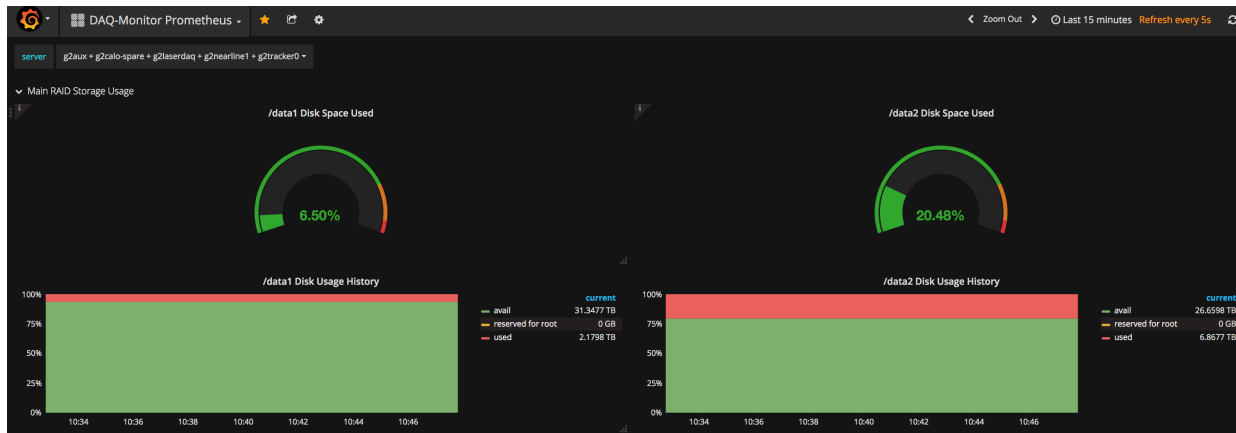
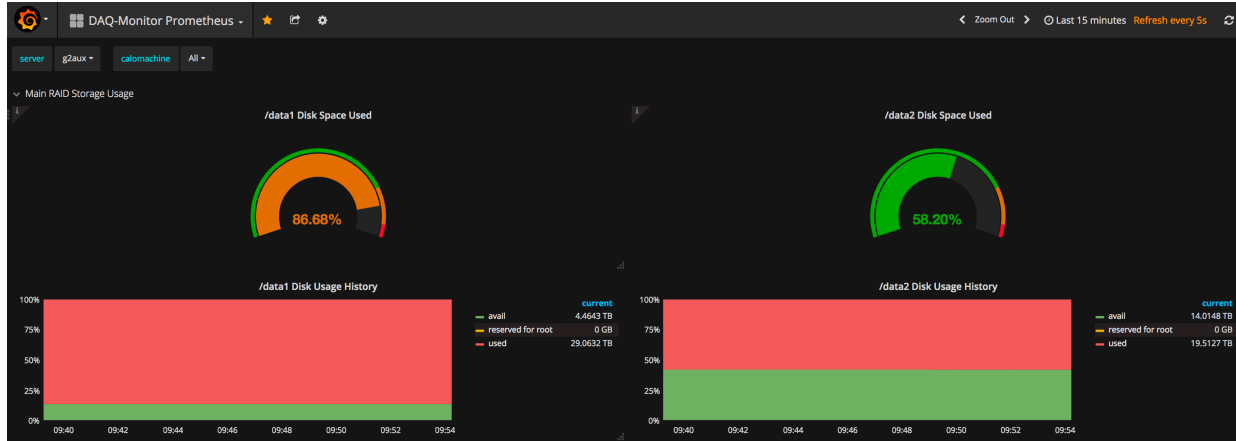
Brendan Kiburg, Jarek Kasper

Oct 30, 2017

# Shutdown Activities Week of 10/23

- **Shifter Update**

- Considerable issues with the File Transfer System (FTS). Local disk in MC-1
- We were running at reduced DAQ rate (calo maintenance). Much better now, will need to monitor.



- **Magnet fridge refurbishment complete**
- **Operated Magnet over the weekend** (fixed probe debugging)
- **Inflector** (Still working on grounding issue. First attempt to reconnect PLC saw spikes return ~ 60 hours)

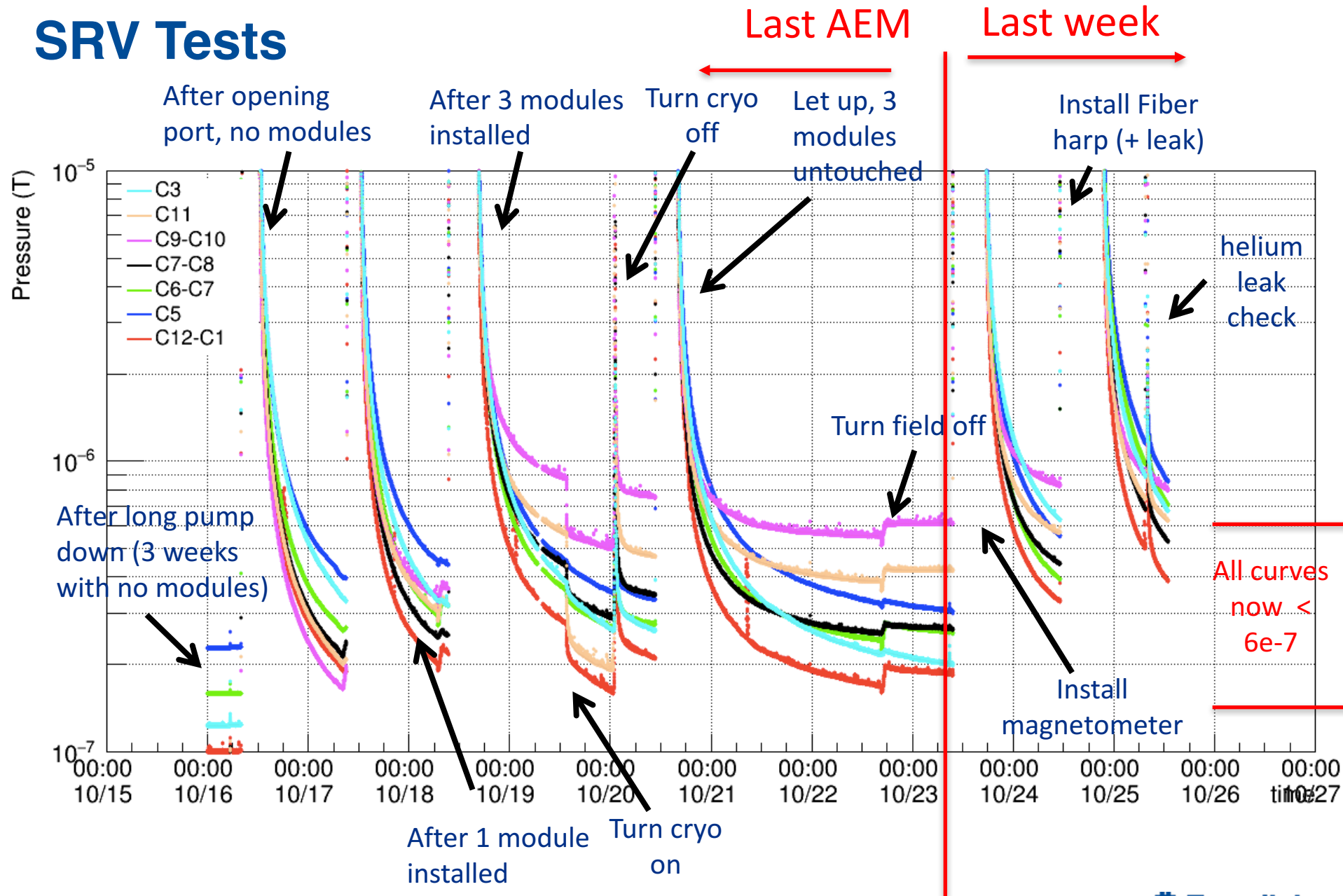
**Muon g-2**



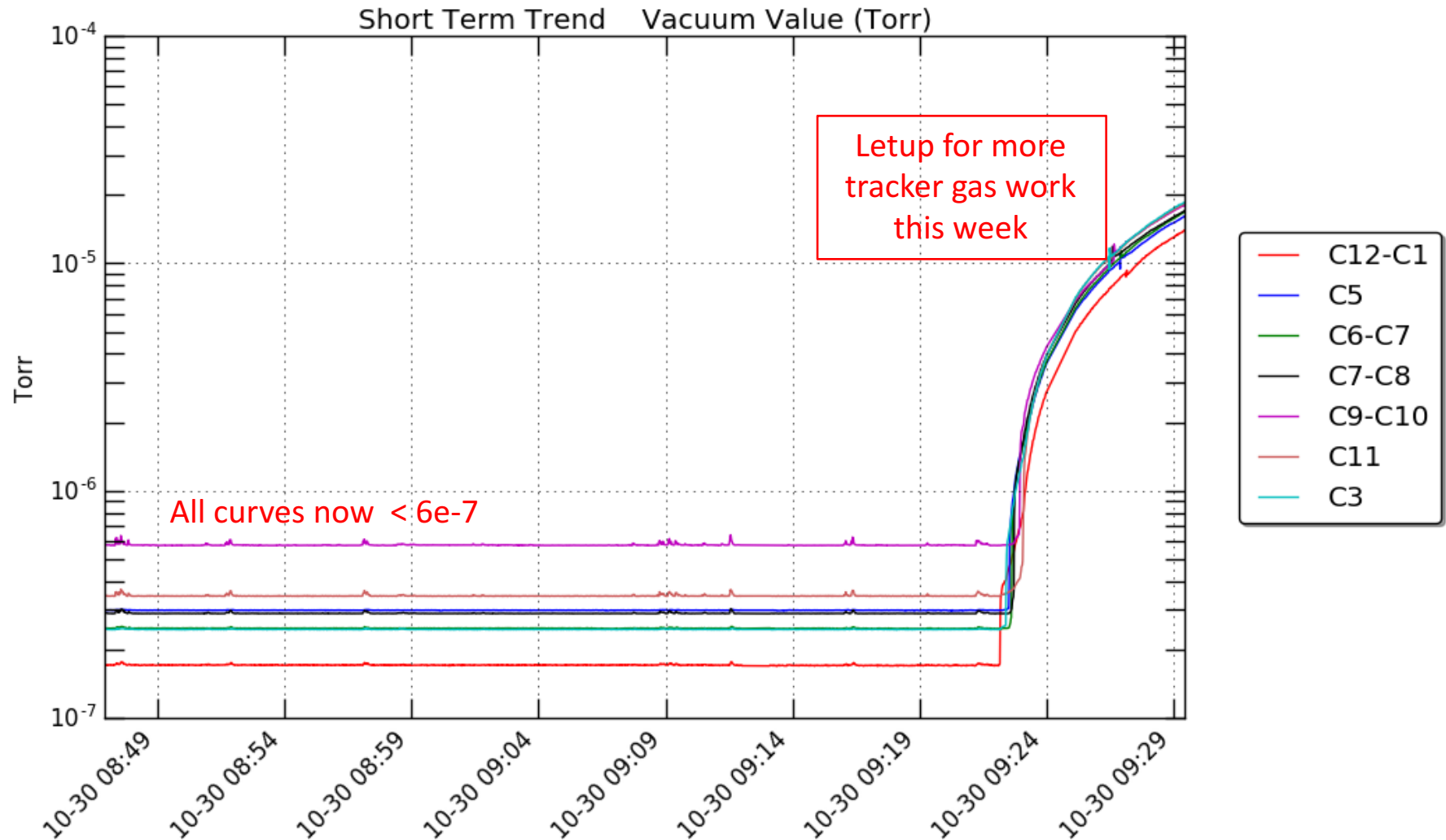
October 30, 2017

Update for AEM

# SRV Tests



# Pumped over weekend – returned to pre-fiber harp vacuum level



# First Magnetometer images

- Want to tune and understand kicker pulse.
  - Added additional capacitor module in K1 transformer (increased charging time)
  - Each pulse in the train looks more even
  - Nominal voltage
  - Installed Magnetometer → tuning and testing. Want to understand the kicker pulse shape and consistency

Yellow = integrated pickup coil signal

Blue = magnetometer

