



# Muon g-2 Shutdown update

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# Week of 10/2: Quad and Kicker conditioning

- **ORR** 10/2—3
- **PWC** chambers review reinstalled and re-aligned
- **Cryo** running smoothly. Magnet was on 144 out of 168 hours last week.
- **Storage Ring Vacuum (SRV)**
  - Been pumped down since Sep 19<sup>th</sup> now  $< 5e-7$  torr everywhere.
  - Have used gate valves to set vac to  $1e-6$  torr for pulsed testing
- **Inflector**
  - All 4 modules see the spikes. Have communicated with vendor → use pure digital portion of controller / suspect analog portion may have problems.
  - We could run now (with the 120 mV quench threshold). Better to fix the problem.
- **Quads**
  - Conditioned up to 24 kV now ( $5e-7$  torr vac)
  - At  $1e-6$  torr, 5 sparks in 48 hours @ 14.5/20.5 kV . ~8 hours w/ kicker @ 87% nominal
- **Kickers**
  - Fluorinert issues caused by stray magnetic fields with K2 was resolved
  - Ran at 55/55/55 kV with Field ON, but at the best vacuum.
- **Trackers**
  - Lab 3 vacuum testing
  - Building up 7oclock in-ring rack infrastructure.
- **Calo** – all refurbished, finishing touches now

# Important Dates

- this week is the final conditioning week for quads and kickers
- **Oct 10:** Distribute web documents for shifters
- Oct 16: Start of Shifts
- Oct 16: Break vacuum (trackers, trolley, fiber harps)
- Oct 16: Magnet Off (cryo engine work)
- Oct 23: End of Shutdown
- Oct 23: Resume Magnet ops
- **Nov 6:** Stable **Hardware** Configuration. First M5 Tests