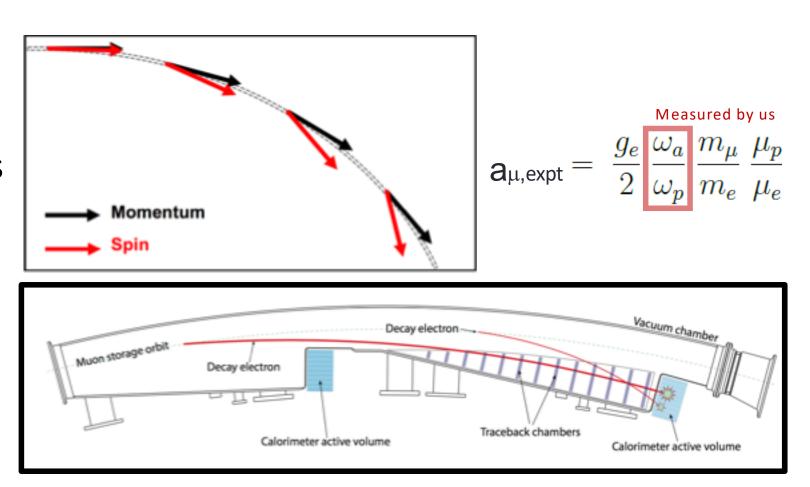
Fermilab Muon g-2 Update

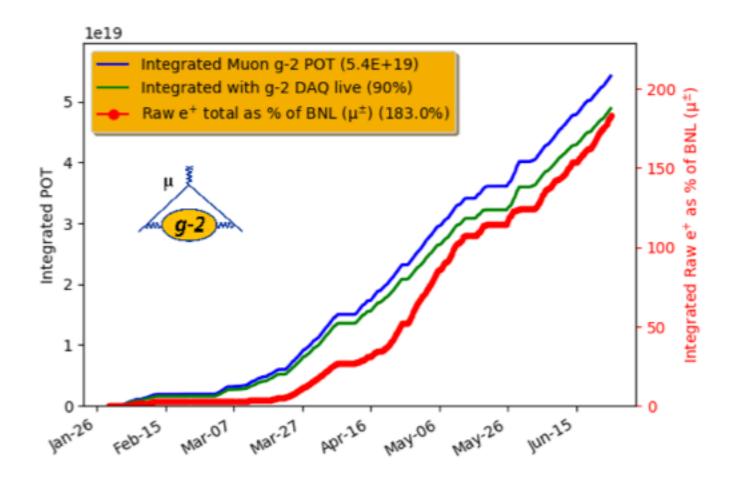
NEWS 2nd Annual Meeting Matthias Smith

Very Brief Muon g-2 Overview

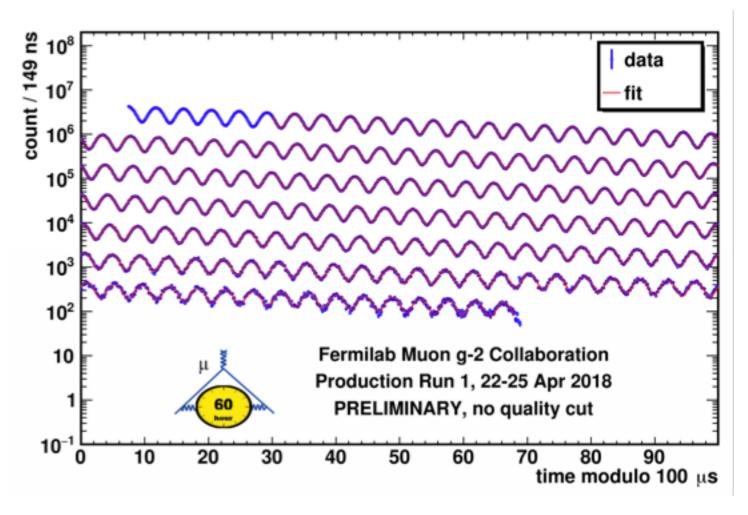
- Spin polarized muons in cyclotron
- High energy decays enhanced when spin aligns with momentum
- Measure spin phase advance and magnetic field



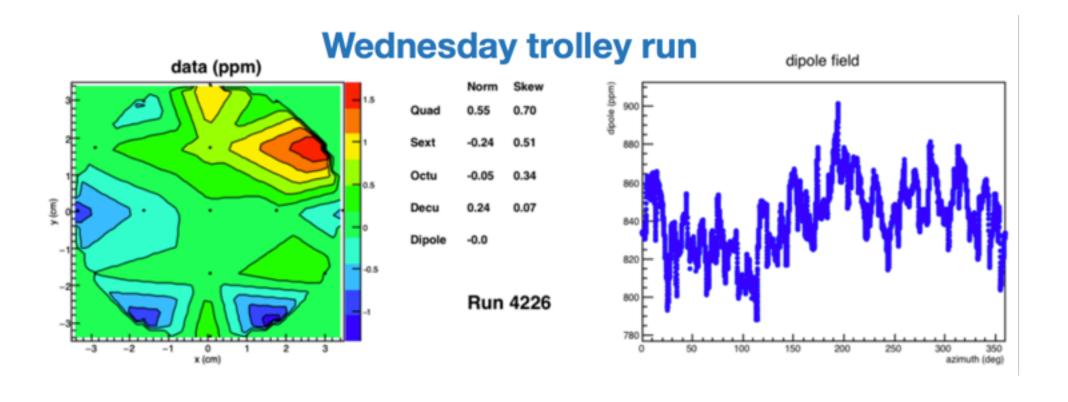
In the Midst of Physics Run 1



Began ω_a Analysis

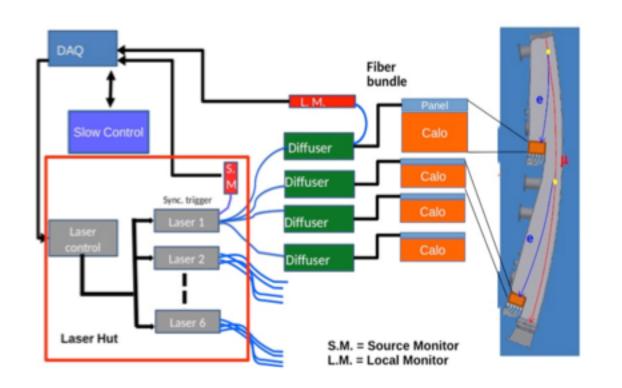


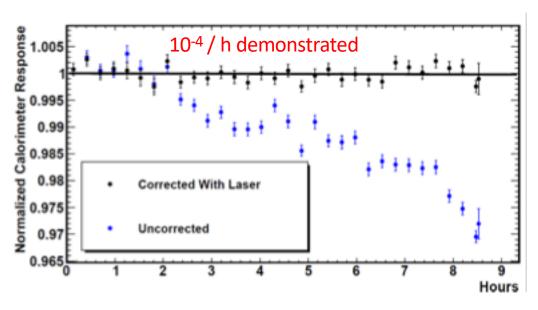
Began ω_p Analysis



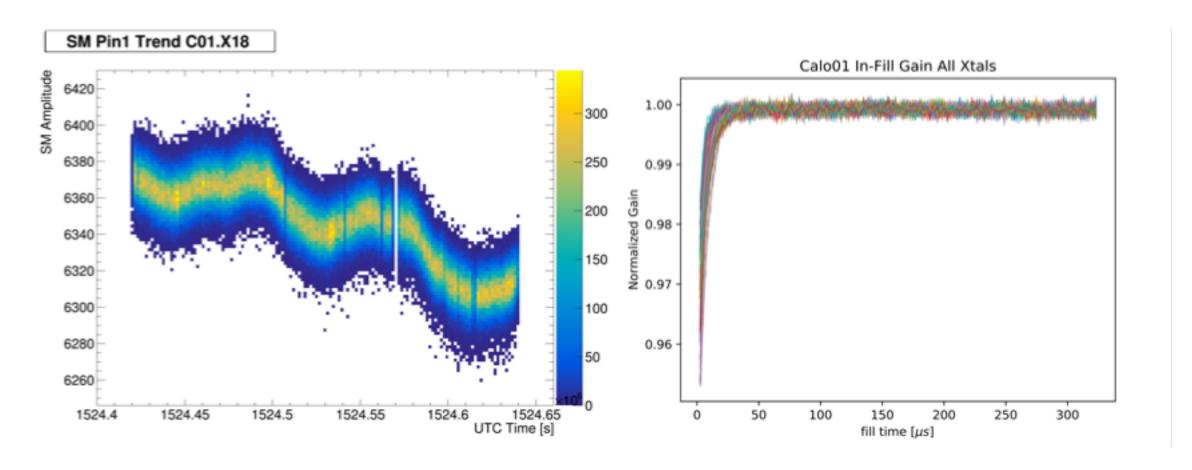
Laser Calibration System

• The focus of the Italian g-2 group





Laser Gain Corrections for ω_a Analysis



Summary

- Run 1 data taking in progress
 - Ends in a few weeks
- No preliminary results yet
 - ppm level results are not far off