

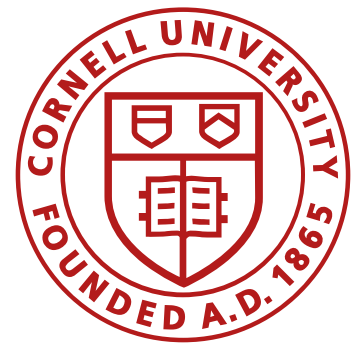
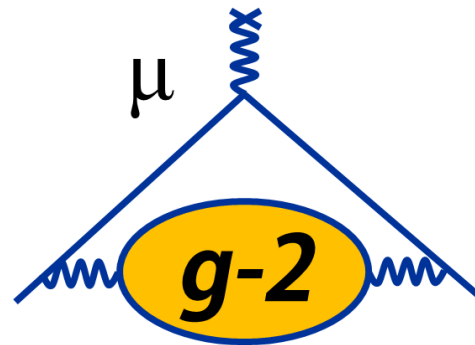


# Muon $g-2$ update

Antoine Chapelain

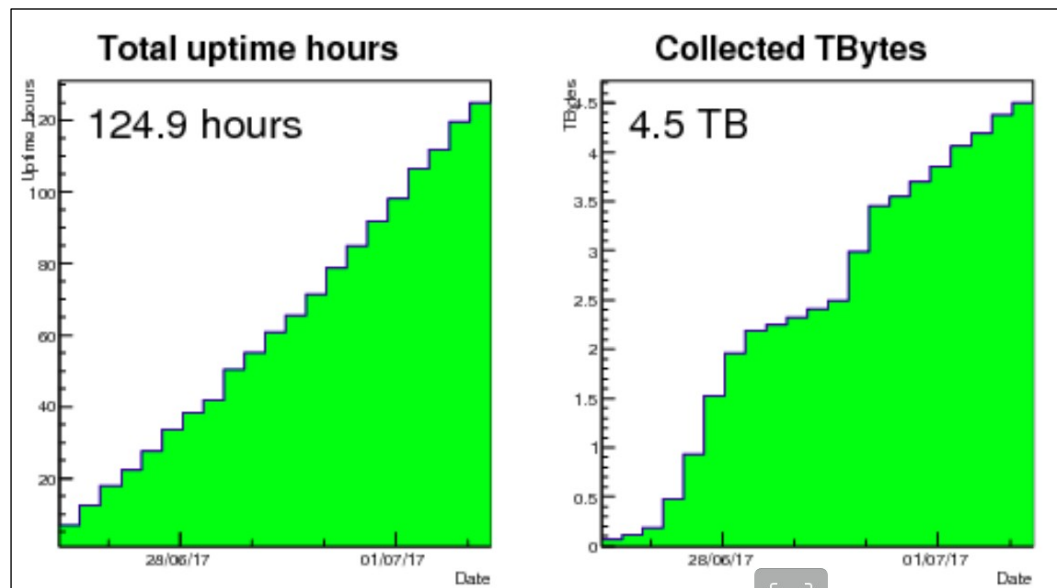
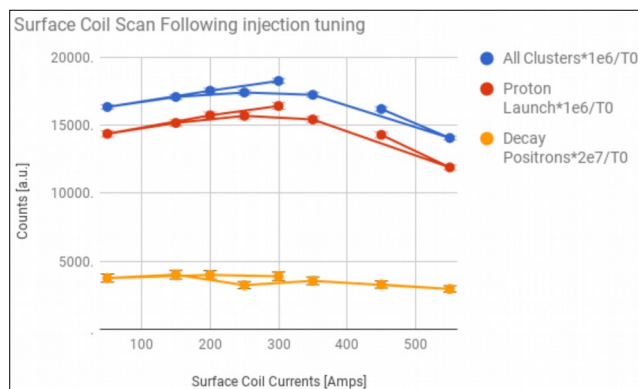
All Experimenters' Meeting

July 3, 2017



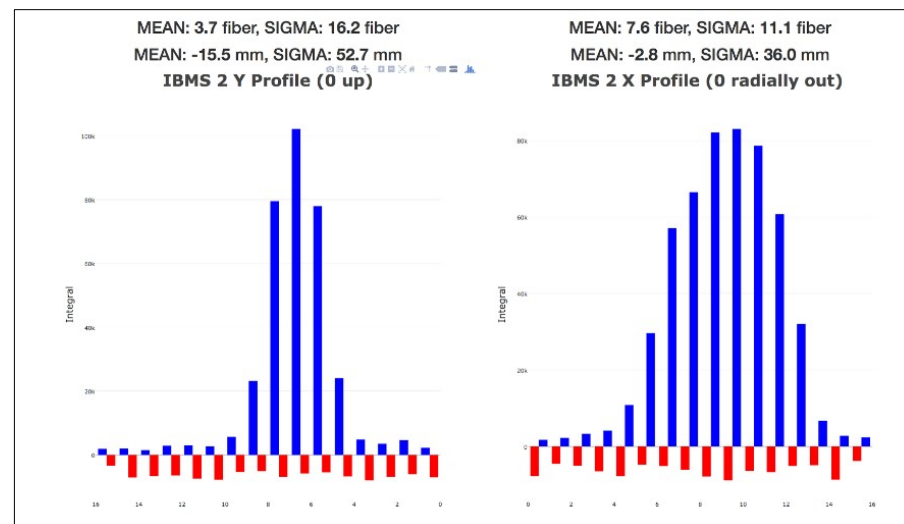
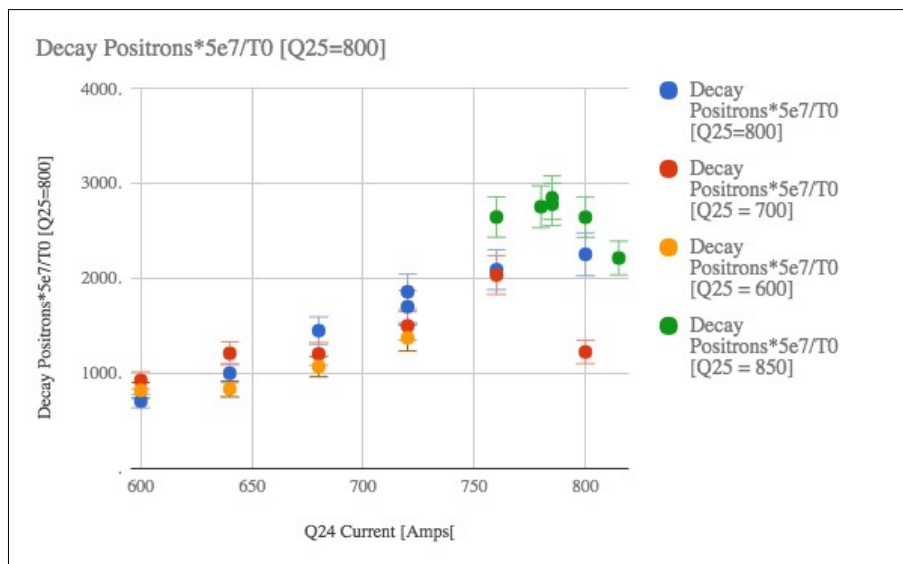
# Summary of last week –focused on optimizing storage efficiency–

- ~75% DAQ uptime, 4.5 TB of data taken
- AD upstream beam line tuning during the day
- Open access on June 28 for work on collimators / trolley / quads
- New procedure to ramp up the inflector to improve field quality
- Continued kickers, quads, inflector and radial field scans
- Turned on quads scraping
- Started tuning the M5 line



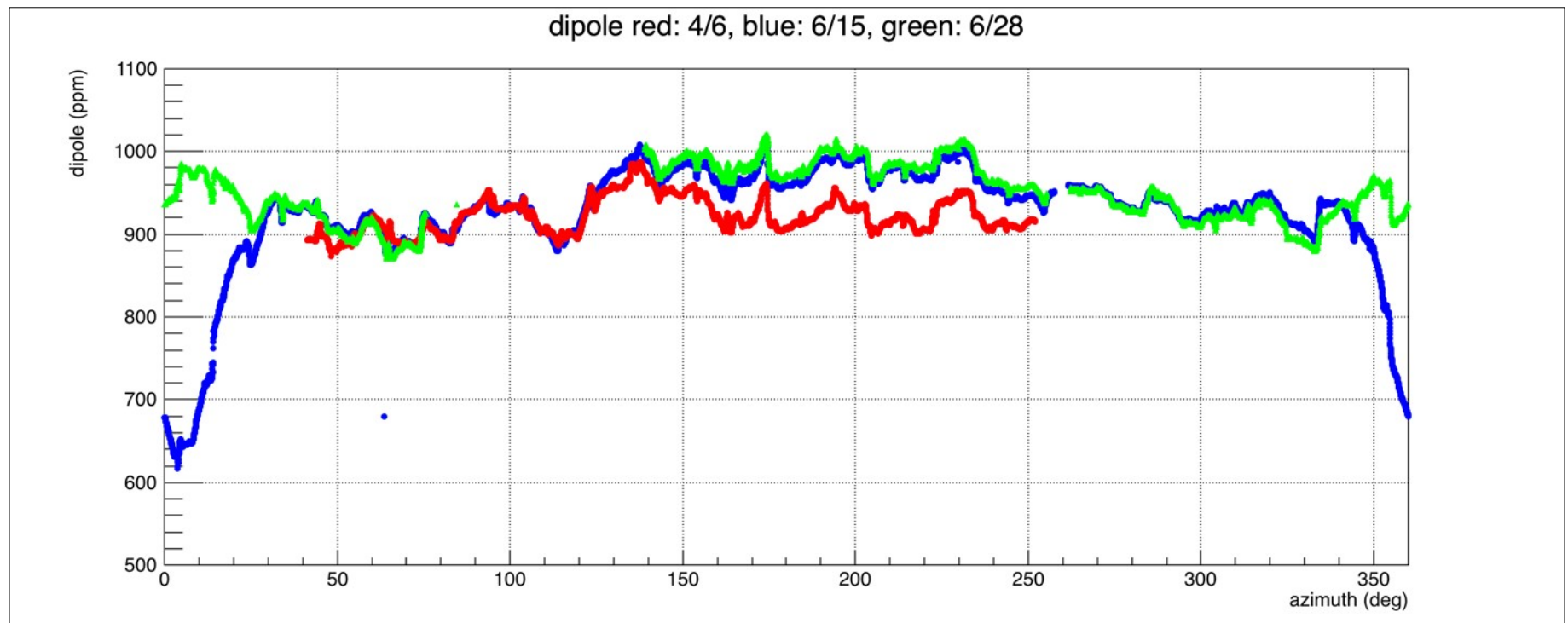
# Highlights - M5 line tuning

- To improve storage efficiency: tuned the current of the last two M5 quadrupoles (along with re-optimizing inflector current, surface coils current and kickers timing).
- Achieved 65% improvement in storage efficiency!



# Highlights - B-field mapping from trolley run

- Previously: large storage B-field field variation observed at the inflector
- New procedure to ramp up the inflector got rid of the it!



# Highlights - Trackers

- New exciting results from the tracker team! Among many other updates: tracks extrapolation and tracker / calorimeter hit matching.

