

Muon g-2

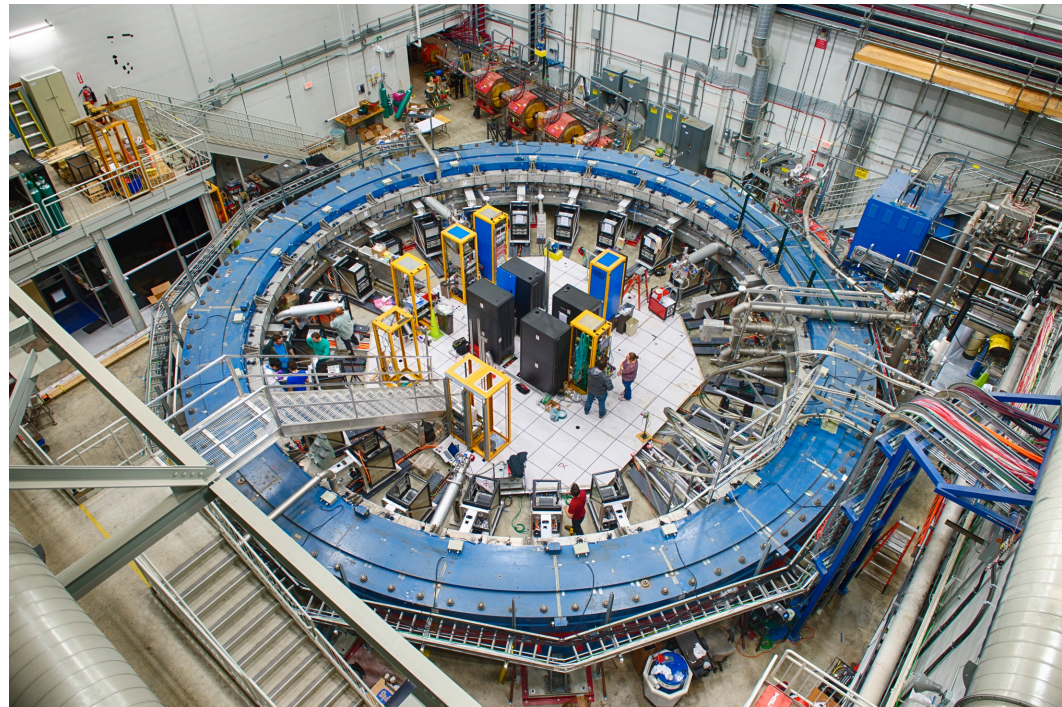
Managed by Fermi Research Alliance, LLC for the U.S. Department of Energy Office of Science

g-2 status

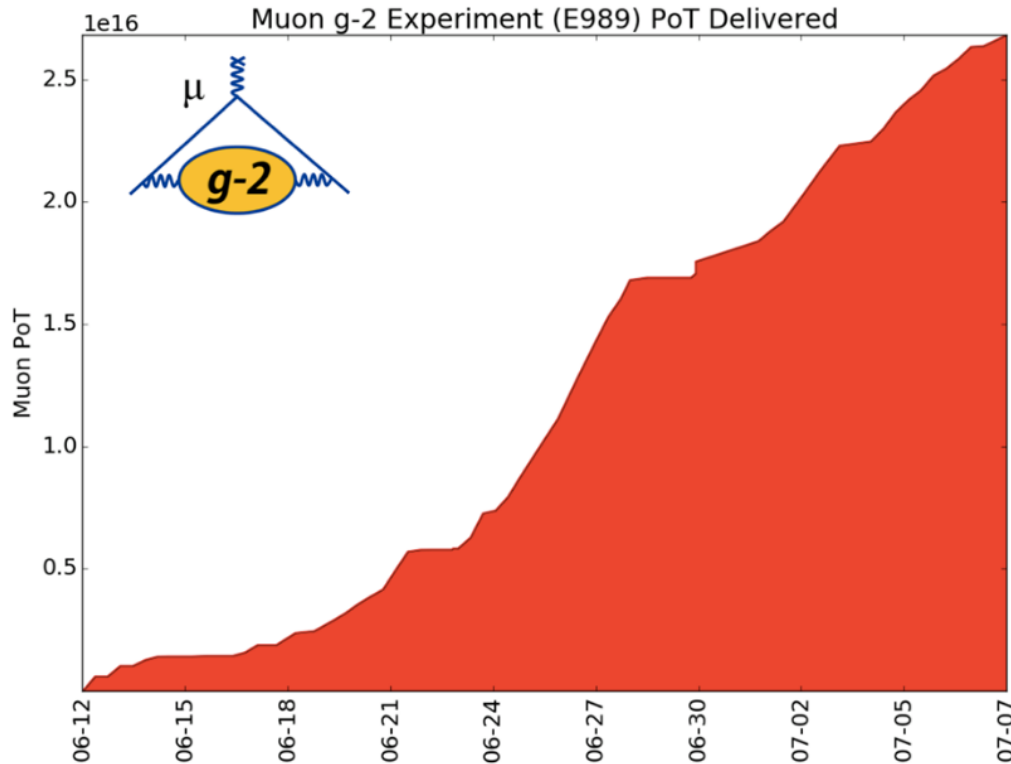
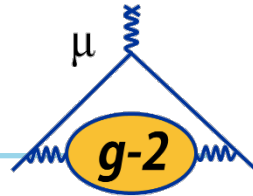
Joe Price

All Experimenters' Meeting

10th July 2017

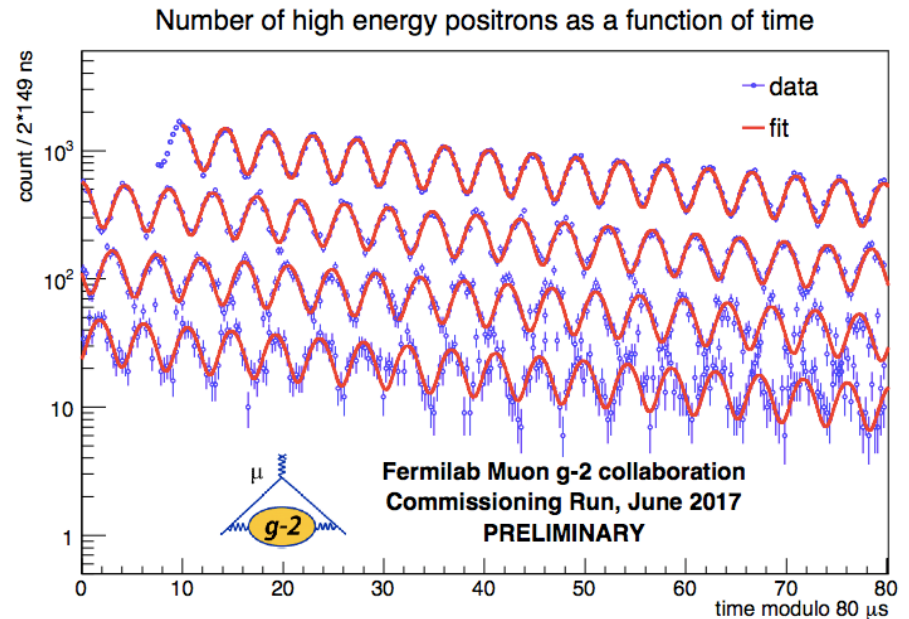
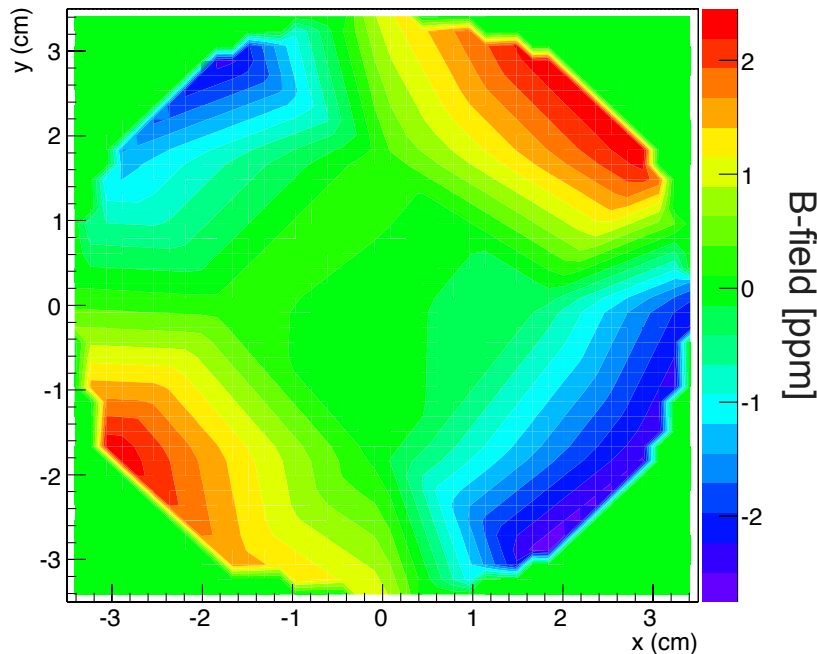
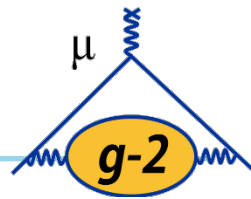


Summer Run



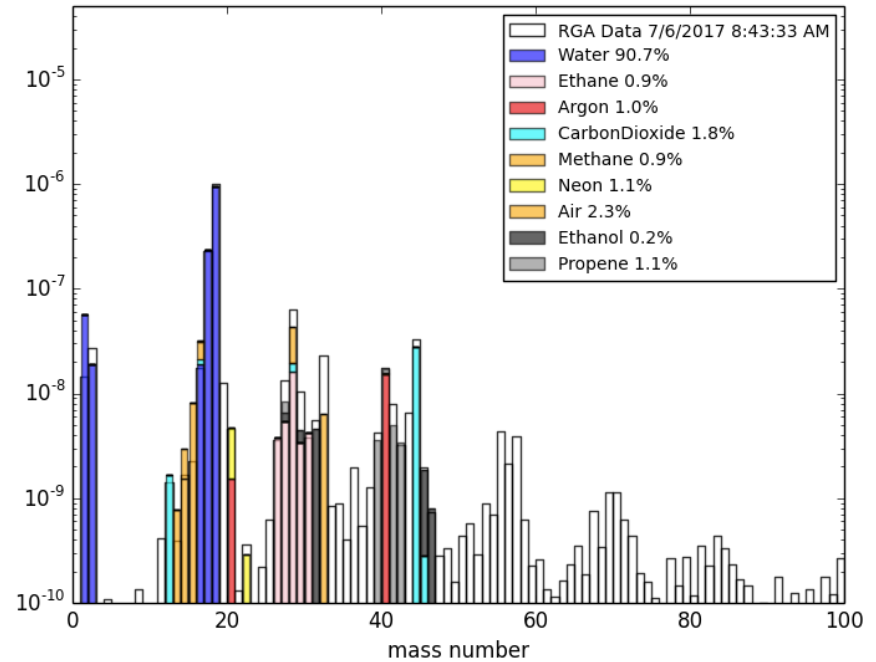
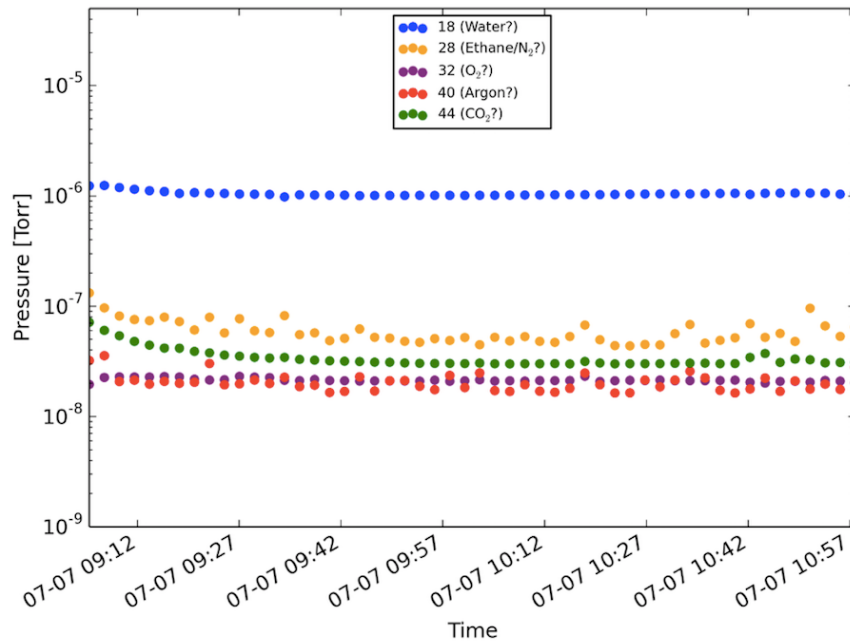
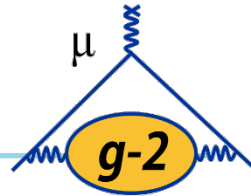
- Data taking concluded on Friday July 7th
- Total of $\sim 2.7 \times 10^{16}$ protons on target for muon experiment
- Comparable dataset to the CERN II and III runs!

ω_a and ω_p measurements



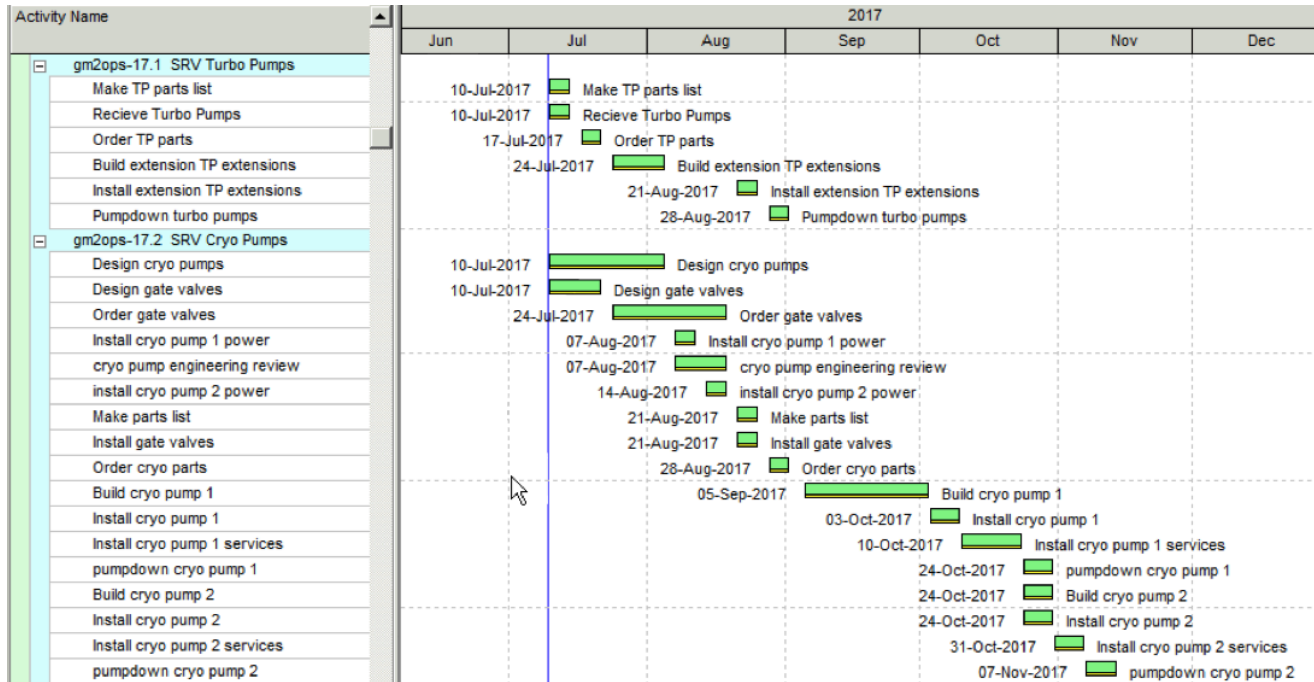
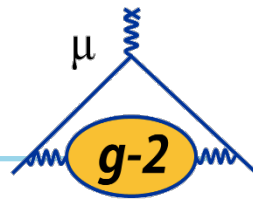
- Successful trolley runs to map out B-field during data taking
 - Variation in B-field approaching desired level
- First (uncorrected) wiggle plot already made
- Comparable dataset to the CERN II and III runs!

RGA analysis



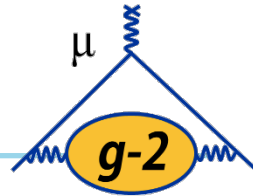
- Work under way to analyze vacuum
- Major peaks identified
- Additional cryo-pumps needed to reduce water content

Shut down schedule



- Gantt charts completed for shut down schedule
- Split up into SRV, Quad, Kicker, tracker, fibre harp, trolley, shimming, etc

Conclusions



- Highly successful summer run April 5th - July 7th complete
- Huge amount of statistics available for analysis
- Summer shutdown plan completed
- Work already underway to understand vacuum in greater detail
- Looking forward to more beam again in November