

## The Commissioning Run Update of the Muon g-2 Experiment at Fermilab

*Wednesday, 30 May 2018 14:00 (20 minutes)*

The Muon g-2 Experiment (E989) at Fermilab is measuring the anomalous magnetic moment of the muon  $a_\mu$ , aiming at improving the precision to 140 parts-per-billion (ppb) and resolving the standard deviation between the previous measurement of  $a_\mu$  and the Standard Model calculation of  $a_\mu$ . In E989, the muon beam is stored in a ring magnet. The spin precession frequency  $\omega_a$  is measured by counting the decay positrons in 24 calorimeters, and the magnetic field is measured by nuclear magnetic resonance (NMR) probes. Important improvements of this experiment and the progress of the commissioning run will be presented.

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### Collaboration name

Muon g-2 Collaboration

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