

Muon g-2 Experiments at FNAL and J-PARC

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The measurement of the anomalous magnetic moment of the muon made at Brookhaven National Laboratory differs from the Standard Model expectation by over 3 standard deviations. A new experiment at Fermilab, using the same storage ring as the Brookhaven experiment, aims to improve the accuracy of this measurement by a factor of 4, and an additional experiment, using a new technique, at J-PARC is scheduled. The results from these experiments are among the most eagerly anticipated in particle physics. The Fermilab g-2 experiment began data taking this year, and a summary of the early measurements will be presented, together with the status, timeline and expected sensitivity of the two experiments.

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