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Recent progress with Muon g-2 Experiment at Fermilab

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The muon anomalous magnetic moment can be both measured and computed with high precision, providing a sharp tool in testing the robustness of the Standard Model and searching for new physics. The previous measurement by the Brookhaven E821 experiment found a 3.6 standard deviation discrepancy from the predicted value. The new generation Muon g-2 experiment at Fermi National Laboratory has started to take physics data since early this year. The first physics result is coming soon with expected improvements in both the measurement precision and theory calculation.

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