

Muon $g-2$ at Fermilab: Probing for BSM Physics

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The Muon $g-2$ experiment at Fermilab will measure the anomalous magnetic moment of the muon, a_μ , to 0.14 ppm. With a factor of four improved precision over the statistically limited Brookhaven E821 experiment, we will test the 3.6σ discrepancy between the Standard Model theory prediction and experimental results. Possible sources of this hint of new physics will be described and experimental upgrades will be discussed. The status of this summer's cross-country storage ring transport from Brookhaven to Fermilab will be highlighted.

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