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Fermilab Muon g-2: from a_μ to g

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The Fermilab Muon g-2 Collaboration recently measured the muon magnetic anomaly with an unprecedented precision of 0.46 ppm. The new result is consistent with the measurement published by the g-2 experiment based at Brookhaven National Laboratory, and a difference of 4.2 standard deviations exists between the Standard Model prediction recommended by the Muon g-2 Theory Initiative and the combined Fermilab and Brookhaven measurements. This talk will describe the Fermilab experiment and the latest measurement of the muon magnetic anomaly.

Presenter: Dr SCHRECKENBERGER (FERMILAB G-2 COLLABORATION), Adam

Session Classification: Muon Anomalies