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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.

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Session Classification: Muon Anomalies