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First measurement of the positive muon magnetic anomaly from the Muon g-2 Experiment at Fermilab

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The Fermilab Muon g-2 Collaboration has recently released its first measurement of the positive muon magnetic anomaly with a precision of 0.46 ppm. This measurement is consistent with the previous measurement made at Brookhaven National Laboratory, where there is a 4.2 standard deviation difference between the Standard Model prediction recommended by the Muon g-2 Theory Initiative and the combined first Fermilab and final BNL measurements. This difference hints at the possibility of physics beyond the Standard Model. This talk will give an overview of the Muon g-2 Experiment and the first measurement of the muon anomaly at Fermilab.

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