

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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The Fermilab Muon g-2 Experiment

Tuesday 2 December 2014 17:00 (30 minutes)

The Fermilab Muon g-2 experiment, E989, is presently being constructed and is seeking to measure the anomalous magnetic moment of the muon to a precision of 0.14ppm: a factor of four better than the previous Brookhaven measurement which has a long-standing discrepancy with respect to the SM prediction of approximately 3.5 standard deviations. I will review the status of the Fermilab experiment and describe how the reduction in the experimental uncertainty will be achieved.

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Session Classification: Parallel 1: g-2 & discrete symmetries (T, C, P), flavour, accidental symmetries