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The Muon $g-2$ experiment at Fermilab and the First Physics Run

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Measurement of the muon anomalous magnetic moment (muon $g-2$) is a sensitive tool for testing the Standard Model (SM) and searching for new physics. It is an important and complementary tool to probe the high energy frontier. In this talk, I will provide an overview on the Fermilab Muon $g-2$ experiment, which aims to perform the measurement the muon $g-2$ with a precision goal of 140 parts per billion, a fourfold improvement over the previous BNL measurement. The first physics run finished in 2018 collecting a data sample with similar size of the BNL measurement. The current experimental status and prospects of the experiment will also be discussed

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