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Muon ($g-2$) SM vs experiment

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The anomalous magnetic moment of muon has been used as an indication of physics beyond the Standard Model. Fermilab Muon $g-2$ experiment has published the most precise measurement of the anomalous magnetic moment of muon with an uncertainty of 460 part-per-billion which showed 4.2 sigma discrepancy between the experiment average and the 2020 $g-2$ Theory Initiative Standard Model prediction. This talk will show the recent results from the Fermilab Muon $g-2$ experiment while also briefly cover the status of the Standard Model prediction on calculating the anomalous magnetic moment of muon.

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