Particle Physics on the Plains 2022



Contribution ID: 7

Type: not specified

Muon Mass-Magnetic Moment Conundrum

Saturday 2 April 2022 15:40 (20 minutes)

Recent precise measurement of muon anomalous magnetic moment by the Fermilab experiment reaffirm the Brookhaven measurement and point towards physics beyond the Standard Model. Such a new physics interpretation of muon g-2 anomaly typically leads to large corrections to the muon mass. In this work, we study the constraints imposed by these muon mass corrections on the scale of new physics interpretation of muon g-2 anomaly.

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Session Classification: Session 3