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Muon Magnetic Moment-Mass Conundrum and the Scale of New Physics

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Recent precise measurement of muon anomalous magnetic moment by the Fermilab experiment reaffirms the Brookhaven measurement and point towards physics beyond the Standard Model. Such a new physics interpretation of the 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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