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Muonic Force Behind Flavor Anomalies

Tuesday 28 September 2021 11:10 (25 minutes)

An economical theoretical framework for combined explanations of the flavor physics anomalies involving muons, $(g-2)_{mu}$, RK(*) and b->s mu mu supplements the Standard Model (SM) with a lepton-flavored $U(1)_{mu}$ gauge group where the auge boson has mass of O(0.1) GeV and a TeV-scale leptoquark. We explore the theory space of the chiral, anomaly-free $U(1)_{mu}$ gauge extensions and carry out a comprehensive phenomenological study of the muonic force in representative benchmark models

What is your topic?

Lepton universality and flavour violation

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