

Naturalness, the deus-ex-machina of the muon $g-2$ anomaly and lepton non-universality.

mercredi 23 juin 2021 11:00 (40 minutes)

I will critically present the state-of-the-art of the observed standard model anomalies in flavor physics and in muon $g-2$ experiment. I will discuss whether the standard model could still be rescued both theoretically and experimentally and whether the anomalies can be considered as serious hints of new physics and what type. In particular I will make the case that the anomalies, especially the $g-2$ one hint to revived natural models of beyond standard model physics. Looking ahead, I will present possible scenarios of discovery of new physics at colliders and beyond.

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Classification de Session: $g-2$