

## **An EFT approach to lepton anomalies**

*Wednesday 23 May 2018 16:10 (20 minutes)*

Beside neutrino masses, an assortment of precision observables probe new physics in the lepton sector. Experimental anomalies include a 3.5-sigma discrepancy in the anomalous magnetic moment of the muon and a 4-sigma indication of lepton universality violation in B-meson semi-leptonic decays. Effective field theory is a useful framework for studying observables sensitive to multi-TeV scales in a model-independent way. Using this approach, I discuss the interplay between different lepton observables, including possibilities of relating several of them simultaneously. I also comment on the links between EFT and specific UV completions.

**Presenter:** COY, Rupert (Laboratoire Charles Coulomb, CNRS)

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