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Lepton Flavour Universality in B decays

Wednesday, 23 May 2018 09:10 (45 minutes)

B decays mediated by both charged currents and neutral currents have provided hints of violation of lepton flavour universality. I shortly review the present experimental results and the global fits when new physics is invoked. I illustrate a plausible SM extension providing an explanation of the anomalies in terms of new physics at or above the TeV scale and described by an effective field theory. Finally, I discuss the main constraints to this general framework: the impact of electroweak radiative corrections on a consistent interpretation of the data and the constraints coming from collider physics.

Presenter: FERUGLIO, Ferruccio (Padova University)

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