Contribution ID: 47

Type: not specified

The global flavour structure of the LEFT

Thursday 13 June 2024 11:30 (15 minutes)

Below the electroweak scale, the gauge interactions of QED and QCD are responsible for the running of the many effective operators of the LEFT (aka WET). As these gauge interactions also preserve both parity and flavour to all orders, decomposing the operators according to their parity and many flavour charges vastly simplifies their running.

Such a decomposition makes the one-loop running of a generic LEFT, from the W mass down to the b mass, semi-analytically soluble. I will show how this gives a more global picture of how flavour phenomenology below the electroweak scale matches on to that above it, using a case study of operators relevant for semi-leptonic B decays.

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Session Classification: Session