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Probing Flavorful EFTs at the LHC

Under the assumption that new physics lies beyond the current energy reach of the LHC, deviations from Standard Model predictions are expected to appear in the high-energy tails of kinematic distributions that can be experimentally accessed. The Standard Model Effective Field Theory (SMEFT) provides a model-independent framework to systematically capture such deviations. In this talk, I will present an analysis based on a subset of dimension-six operators, without imposing flavor assumptions, using data from Drell-Yan, diboson production, and Higgs production processes. Additionally, I will show an explicit comparison with ultraviolet models capable of generating the relevant operators, providing insight into the range of validity of the EFT description at the LHC.

Secondary track

T09 - Beyond the Standard Model

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