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Combining low- and high-energy constraints on flavourful EFTs

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The study of high- p_T tails at the LHC can be a complementary probe to low-energy observables when investigating the flavour structure of the Standard Model and its extensions.

Motivated by the B anomalies, we study the interplay between low-energy observables and both charged and neutral current Drell-Yan measurements, and their implications for semileptonic interactions.

The Mathematica package “HighPT” allows to do so within a unified and consistent framework, yielding a likelihood function that includes not only high- p_T and flavour observables, but the EW pole and Higgs observables as well, thus allowing to perform combined fits easily.

We discuss such combined analyses in the Effective Field Theory approach.

In-person participation

Yes

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