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Type: Non spécifié

On the B -meson decay anomalies

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In the Standard Model electroweak interactions are strictly lepton flavour universal.

In view of the emerging hints for the violation of lepton flavour universality in several B -meson decays, we conduct a model-independent study (effective field theory approach) of several well-motivated new physics scenarios.

Taking into account the most recent LHCb data, we provide updates to New Physics fits for numerous popular hypotheses.

We also consider a promising model of vector leptoquarks, which in addition to explaining the B -meson decay anomalies ($R_{K^{(*)}}$ and $R_{D^{(*)}}$) would have an extensive impact for numerous flavour observables.

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Classification de Session: Theory

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