

Flavor Gauged 2HDM after RK 2022 Release

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Does the updated lepton non-universality parameter, given by LHCb in December 2022, imply that new physics in b to s window has faded way? In this work, we aim to answer this question by making global fits of Wilson coefficients in four different scenarios taking into account 196 observables in leptonic and semileptonic decays of B mesons and bottom baryons. We find that new physics opportunities in some of the Wilson coefficients still exist. We further discuss a type of 2HDM accommodated with flavor symmetries combining constraints from RD and g-2 and relevant parameter space is also explored.

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