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Lepton Flavor (Universality) Violation in B Meson Decays

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Lepton Flavor (Universality) Violation in B Meson Decays

Even though the LHC searches so far did not unveil the new physics particles, the B-physics experiments at LHCb, BaBar and Belle hint towards deviations from Lepton Flavor Universality in both the tree-level and loop-induced B meson semileptonic decays. I will briefly review the models that can address these puzzles, propose one new model and discuss the main predictions that can be tested at LHCb and/or Belle-II. Particular emphasis will be given to Lepton Flavor Violation in B meson decays, which offer a very clean alternative to test the proposed New Physics scenarios.

Experimental Collaboration

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