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[318] Studies of semileptonic charged-current decays of b-hadrons

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Measurements related to the decays of semi-leptonic b hadrons, mediated by charge-current transition, allow for stringent tests of Standard Model (SM) predictions. They provide a critical tests of lepton flavour universality and help confront theoretical predictions of differential decay rates. In fact, a combination of results from LHCb, Babar and Belle concerning lepton flavour universality has shown a discrepancy from the SM prediction at the level of 3σ , hinting at contributions from beyond the SM. The talk will review recent studies of lepton flavour universality and differential decay rate measurements of semi-muonic decays. The talk will also highlight the status of ongoing and planned measurements involving these decays.

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