



Contribution ID: 42

Type: Poster

Flavor violation in meson decays

Some extended models predict the existence of a new neutral massive gauge boson, identified as the Z' boson, together with flavor-changing neutral currents. In this theoretical framework, we estimate the intensity of couplings regarding the interaction between the Z' boson with the bottom and the strange quarks through the $B_s^0 \rightarrow \mu^+ \mu^-$ transition, which allow us to study the $B_s^0 \rightarrow \tau \mu, \tau e, \mu e$ decays. We present preliminary results, where the corresponding branching ratios are estimated; our predictions are contrasted with similar ones coming from several extended models. In particular, our estimates for the branching ratios range between 10^{-9} and 10^{-6} .

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Session Classification: Poster session

Track Classification: Electroweak