

Enhanced $B \rightarrow \mu\bar{\nu}$ Decay at Tree Level

Thursday, 23 May 2019 14:40 (20 minutes)

The presence of extra Yukawa couplings, in particular $\rho_{\tau\mu}$ and ρ_{tu} , can enhance $B \rightarrow \mu\bar{\nu}$ rate but leave $B \rightarrow \tau\bar{\nu}$ unchanged, thereby their ratio can deviate from the value common to the Standard Model and two Higgs doublet model type II. With recent hint of enhancement in $B \rightarrow \mu\bar{\nu}$ using full Belle data, the Belle II experiment could probe this New Physics with just a few ab^{-1} .

Primary author: HOU, George Wei-Shu (National Taiwan University (TW))

Presenter: HOU, George Wei-Shu (National Taiwan University (TW))

Session Classification: BSM in Flavor Physics

Track Classification: BSM in Flavor Physics