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New physics in inclusive $\bar{B} \to X_c \tau^- \bar{\nu}_\tau$ decay including $\mathcal{O}(\Lambda_{QCD}^2/m_b^2)$ and $\mathcal{O}(\alpha_s)$ corrections

Motivated by the $R(D^{(*)})$ anomalies observed in exclusive $\bar{B} \to D^{(*)} \tau^- \bar{\nu}_\tau decays$, which might hint at the violation of lepton flavoruphysics signals that couple non-universally to the three generations of leptons, we per formade tailed study of the new-physics of fects in the inclusive \bar{B}\to X_c\tau^-\bar{\nu}\tau\$ decay, including both \mathcal{O}(\Lambda{QCD}^2/m_b^2) and \mathcal{QCD}^2/m_b^2) and \mathcal{QCD}^2/m_b^2/m_b^2) and \mathcal{QCD}^2/m_b^2

Presentation type

Oral

Primary author: Ms 媛媛, 李 (华中师范大学)

Co-authors: Mr 新强, 李(华中师范大学); Mr 亚东, 杨(华中师范大学); Ms 丽芬, 赖(华中师范大学)

Presenter: Ms 媛媛, 李 (华中师范大学)