

Asymmetry Observables and the Origin of $R_{D^{(*)}}$ Anomalies

Wednesday, 22 May 2019 15:20 (20 minutes)

The $R_{D^{(*)}}$ anomalies are among the longest-standing and most statistically significant hints of physics beyond the Standard Model. In this talk, we investigate future measurements at Belle II that can be used to tell apart the various new physics scenarios for these anomalies. We show that Belle II can use a number of τ asymmetry observables (forward-backward asymmetry and polarization asymmetries) which can be reconstructed at Belle II to distinguish between various possible new-physics scenarios.

Primary author: ASADI, Pouya (Rutgers University)

Co-authors: BUCKLEY, Matthew R. (Rutgers University); SHIH, David (Rutgers University)

Presenter: ASADI, Pouya (Rutgers University)

Session Classification: BSM in Flavor Physics

Track Classification: BSM in Flavor Physics