Contribution ID: 65

Type: Oral contribution

Radiative correccions to $\boxtimes \rightarrow \boxtimes \boxtimes$ and its consequences for tests of the SM and New Physics

Wednesday 29 September 2021 08:25 (20 minutes)

The calculation of radiative corrections (radcorr) in semileptonic decays requires a good description of photonhadron interactions at all energies. We present a calculation of the radcorr to $\tau^- \rightarrow P^- \nu_{\tau}$ decays (*P* a pseudoscalar meson) where photon-hadron form factors obeys the expected QCD constraints at very small and very large virtual photon momenta. The implications for tests of lepton flavor universality, CKM unitarity and new physics constraints are discussed.

What is your topic?

Precision SM tests

Authors: LOPEZ CASTRO, Gabriel (Cinvestav, Mexico); HERNANDEZ-TOMÉ, Gerardo (Cinvestav, Mexico); ROSELL, Ignasi (Universidad Cardenal Herrera-CEU, España); ARROYO-UREÑA, Marco (Cinvestav, Mexico); ROIG, Pablo (Cinvestav, Mexico)

Presenter: LOPEZ CASTRO, Gabriel (Cinvestav, Mexico)

Session Classification: Session 3: Exclusive and inclusive hadronic tau decays

Track Classification: Tau2021 Abstracts