PANIC2021 Conference



Contribution ID: 269

Type: Talk

Lepton-flavour violation in hadronic tau decays and $\mu - \tau$ conversion in nuclei

Sunday 5 September 2021 13:45 (20 minutes)

Within the Standard Model Effective Field Theory framework, with operators up to dimension 6, we perform a model-independent analysis of the lepton-flavour-violating processes involving tau leptons. Namely, we study hadronic tau decays and ℓ - τ conversion in nuclei, with $\ell = e, \mu$. Based on available experimental limits, we establish constraints on the Wilson coefficients of the operators contributing to these processes. The translation of these constraints into the most general leptoquark framework is also considered. Our work paves the way to extract the related information from Belle II and foreseen future experiments.

Primary author: MONSALVEZ POZO, Kevin (IFIC (CSIC-UV))
Co-authors: HUSEK, Tomas (Lund University); PORTOLES, Jorge (IFIC (CSIC-UV))
Presenter: MONSALVEZ POZO, Kevin (IFIC (CSIC-UV))
Session Classification: Tests of symmetries and conservation laws

Track Classification: Tests of symmetries and conservation laws