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EFT analysis of light-quark semileptonic transitions and the Cabibbo anomaly

Tuesday 20 June 2023 14:50 (17 minutes)

This talk is based on the results of *JHEP* **04** (2022) 152. In this article, an analysis of light-quark semileptonic transitions is carried out in an Effective Field Theory framework. That is, model-independent bounds on new physics are obtained for the following data sets: semi-leptonic tau decays, pion decays, kaon decays and nuclear beta decays. Subsecuently, a global combination of these bounds is performed, resulting in constraints on new physics for the light-quark sector involving all three lepton families. The interplay of this result with the so-called Cabibbo Anomalies is then explored.

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yes

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