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Correlating New Physics Effects in Semileptonic $\Delta C = 1$ and $\Delta S = 1$ Processes

Monday, July 17, 2023 3:20 PM (20 minutes)

We present constraints on the left-handed dimension-6 interactions that contribute to semileptonic and leptonic decays of K , D , pions and to nuclear beta decay. We employ the flavour covariant description of the effective couplings, identify universal CP phases of New Physics and derive constraints from decay rates and CP-odd quantities. As a result, we can predict the maximal effects of such flavoured NP in D decays from stringent K decay constraints and vice-versa.

Consent

I consent to recording/broadcasting my presentation.

Primary authors: FAJFER, Sijetlana (University of Ljubljana and J.Stefan Institute); F. KAMENIK, Jernej (University of Ljubljana and Jožef Stefan Institute); KORAJAC, Arman (Jožef Stefan Institute); KOŠNIK, Nejc (University of Ljubljana and Jožef Stefan Institute)

Presenter: KORAJAC, Arman (Jožef Stefan Institute)

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