Progress in the Unitarity Triangles (UTs) and in CP violation

Thursday 18 July 2024 09:30 (15 minutes)

Recent progress achieved in the standard B-unitarity triangle and in the Kaon unitarity triangle is discussed. In particular, we outline how further inroads into the Kaon UT can be made via K0=>pi0+l+l- in both theory and in experiments. In the current precision flavor era, where there are large fluxes of B's and kaon's from LHCb, Belle-II, NA62, KOTO and the proposed experiments such as HIKE, we point out new ways to utilize these precious resources to extract vital information on CP violation in order to refine our tests of the CKM-paradigm of CP violation and improve searches for new physics.

Alternate track

I read the instructions above

Yes

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