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Type: Poster

Flavour symmetries and Standard Model tests in $B \rightarrow DD$ decays

Thursday, 15 December 2022 19:30 (2 hours)

The discrepancy between observations, and Standard Model (SM) predictions of the Baryon Asymmetry of the Universe implies the existence of physics beyond the SM, which must include further sources of CP violation-in general with $O(1)$ phases. LHCb has recently made several CP asymmetry measurements for $B \rightarrow DD$ decays. For such non-leptonic modes, lack of knowledge of long-distance strong interaction contributions mean these are challenging to predict. We use QCD's approximate $SU(3)$ -flavor symmetry, systematically including breaking effects, to assess the consistency of current data with the SM and to predict yet unmeasured CP asymmetries.

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