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Phenomenology of a $U(2)^3$ flavour symmetry

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The approximate $U(2)^3$ symmetry exhibited by the quark sector of the Standard Model, broken in specific directions dictated by minimality (Minimal $U(2)^3$), can explain the current success of the CKM picture of flavour and CP violation while allowing for large deviations from it at foreseen experiments. The embedding of this symmetry in specific models leaves space to satisfy collider and precision bounds without spoiling the naturalness of the theory. In an extended version of this framework (Generic $U(2)^3$), if needed, one could account for the recently observed CP asymmetry in $D \rightarrow \pi\pi$, KK decays, while being consistent with all the other constraints.

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