## Rencontres de Moriond EW 2013



ID de Contribution: 32

Type: YSF (Young Scientists Forum)

## Phenomenology of a U(2)<sup>3</sup> flavour symmetry

dimanche 3 mars 2013 20:09 (5 minutes)

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.

Auteur principal: SALA, Filippo (Scuola Normale Superiore and INFN, Pisa)

Orateur: SALA, Filippo (Scuola Normale Superiore and INFN, Pisa)

Classification de Session: Young Scientist Forum

Classification de thématique: Theory