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SU(3) Flavour Symmetries and CP Violation

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In order to satisfy current FCNC and CP violation bounds, SUSY flavour structures cannot be generic. An interesting solution to these SUSY Flavour and CP Problems lies on the use of an SU(3) family symmetry which spontaneously breaks CP symmetry.

Typical observables of such a model are electric dipole moments and LFV processes. In addition, these models can give contributions to CP violation in neutral kaon decay. We show how the latter can be used to restrict the allowed SUSY parameter space, and induce correlations between LFV and EDM predictions.

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