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CP Violation in Supersymmetry with Effective Minimal Flavour Violation

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We analyze CP violation in supersymmetry with Effective Minimal Flavour Violation, where the squarks of the first two generations are much heavier than the third generation ones. Unlike the case of standard Minimal Flavour Violation, we show that all the phases allowed by the flavour symmetry can be sizable without violating existing Electric Dipole Moment constraints, thus solving the SUSY CP problem. The EDMs at one and two loops are precisely analyzed as well as their correlations with the expected CP asymmetries in B physics.

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