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CP Violation in Bs Mixing from Effective Supersymmetric Higgs Bosons

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We present a study of the impact of higher dimensional operators on the quark-Higgs couplings in the MSSM. Dimension 5 operators can induce $\tan(\beta)$ enhanced flavor changing couplings of the neutral Higgs bosons to down quarks already at the tree level.

Assuming that these couplings obey the Minimal Flavor Violation ansatz, we show that the studied framework can accommodate a $O(1)$ B_s mixing phase through tree level neutral Higgs exchange, without being in conflict with the stringent bounds from $BR(B_s \rightarrow \mu^+ \mu^-)$.

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