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3HDM under S_3 Symmetry and Flavor Constraints

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We investigate the scalar potential with soft breaking terms and flavor part of a general S_3 -symmetric three-Higgs-doublet model. By assuming that the quarks, leptons and Higgs fields belong to irreducible representation of the permutation group S_3 and CP violation, parameter space that can reproduce quark masses, lepton masses, CKM matrix, PMNS matrix is obtained, which also satisfies the potential stability constraints, unitarity constraints, FCNC constraints and EDM constraints.

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