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Signatures of an S_3 -Orbifold Higgs Model

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Theories of neutral naturalness, where the Standard Model top partner carries no Standard Model charge, may explain the lack of new physics seen at the LHC. The Twin Higgs was the first of these theories to be introduced, but recent work has demonstrated it is only an isolated example in a large class of “orbifold Higgs” models. In this work we study an orbifold Higgs model resulting from the orbifold projection by the non-abelian group S_3 . A model with multiple sectors uncharged under the Standard Model emerges. Constraints are placed on the model from Higgs phenomenology and the prospects of finding evidence in colliders are discussed.

Summary

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