

The electroweak precision constraints of the 2HDM+S

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We investigate the phenomenological prospects of the Two Higgs Doublet and Singlet Scalar Extension (2HDMS). In this work, we perform an exhaustive scan to find representative benchmarks which are consistent with all theoretical and experimental constraints. We focus on the relevant signatures at the LHC, especially about the oblique parameters, and at proposed future lepton colliders including electron-positron and muon colliders.

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