

Implications of the Yukawa textures of the neutral Higgs bosons in the context to the THDM III

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Abstract content

In this work we shown the brantching ratios of the main neutral Higgs bosons decays in the context to the THDM type III (THDM-III), taking into account the implications of Yukawa textures. In particular, the flavor violating decays could be restricted at low energies by the specific form of 4-zero textures. The analytic and numerical analysis in the allowed parameter space are realized. Several defined cases are bounded in accordance with the theoretical restrictions corresponding. Finally, we calculate the expected event number for the possible detection of a neutral Higgs boson in the current colliders.

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