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Signals of CP Violation Beyond the MSSM in Higgs Physics

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We study an extension of the Higgs sector of the Minimal Supersymmetric Standard Model (MSSM) in which effects of new degrees of freedom at the TeV scale are considered, allowing for sources of CP violation beyond those of the MSSM (BMSSM).

We analyze the impact of these new sources of CP violation in Higgs Collider Phenomenology, identifying signatures that are not realized either in the BMSSM without CP violation or in the MSSM in the presence of CP violation. Furthermore, we investigate the potential to probe these peculiar scenarios at Tevatron and the LHC.

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