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Significance of a Possible 125 GeV Higgs on the Light Stop Sector

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Abstract:

Recent experimental evidence has hinted at the existence of the theoretical Higgs particle at a mass of 125 GeV. If the Higgs truly exists at this mass, there are implications to the light stop sector of the MSSM. We perform a parameter sweep to determine what parameter space is excluded by the existence of the Higgs at this mass. Additionally, we investigate possible decay signatures of the light stops consistent with a 125 GeV Higgs at the LHC.

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