

Indirect effects of the triplet extension of the MSSM

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The observation of the Higgs boson with a mass of 126 GeV is in tension with natural MSSM scenarios. Such a Higgs mass requires heavy third-generation squarks which reintroduces fine-tuning. Having a minimal model can be dropped in favor of naturalness. One such example is to add an $SU(2)$ triplet, hypercharge $Y=0$ triplet chiral superfield to the MSSM. In this talk I will summarize recent work done on this model by looking at the ease of generating the observed Higgs mass, the Higgs to di-photon signal strength, and the decays of the stop squarks.