

A 125 GeV Higgs from Higgs Loops

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4:00 P.M.

RM 415 NSH

I will discuss the viability of regions of large $\tan \beta$ within the framework of Fat Higgs/ λ -SUSY Models. Corrections to the Higgs boson mass from heavy non-standard Higgses are crucial here since the tree level contributions are suppressed at large $\tan \beta$.

I will locate scenarios consistent with all constraints from electroweak precision tests, dark matter experiments and the invisible decay width of the Z boson, and discuss how this model can be tested.