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125 GeV Higgs Boson from t-b-tau Yukawa Unification

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Abstract:

We identify a class of supersymmetric GUT in which imposing essentially perfect t-b-tau Yukawa coupling unification at GUT scale yields a mass close to 122-126 GeV for the lightest CP-even Higgs boson. The squark and gluino masses in these models exceed 3 TeV, but the stau and charginos in some cases can be considerably lighter.

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