

Bounds for lighter Higgses in extensions of the Standard model

We consider present constraints on models with more than one Higgs boson, both from the LHC data and from other sources in order to explore the possibility of constraining scalar or pseudoscalar particles lighter than the 125 GeV Higgs boson. Contrary to naive expectations, such a lighter particle is not yet completely excluded by present data. We show with a simplified analysis that some new constraints can be obtained at the LHC if such a search is performed by the experimental collaborations.

I intend to submit my contribution for the proceedings

Yes

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