

## Search for a lighter Higgs in Two Higgs Doublet Model

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Abstract : We study the two higgs doublet model with the mass of the heavy higgs set to 125GeV. We study the lighter Higgs of the model , constrain the different free parameters and see if we are sensitive at LHC at 8TeV in the  $h \rightarrow \gamma \gamma$  channel.

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**Classification de Session:** Higgs physics and results