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and the LHC**

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

*lundi 5 septembre 2016 15:15 (30 minutes)*

**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->gamma gamma channel.

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