

# Some extensions of the Higgs sector and phenomenology of the charged Higgs as a signal of new physics

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## **Abstract content**

### **Summary**

We study possible extensions of the Higgs sector beyond SM. Specifically, we study the charged higgs as signal of new physics in a susy model, in the 2HDM-III and the some models with scalars triplets. We present the phenomenology of the charged Higgs through relevant processes decay and production that could be detected at LHC.

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