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## The charged Higgs as a possible signal of new physics at the LHC

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### Abstract content

We study feasible extensions of the Higgs sector beyond SM. Specifically we study the charged Higgs as signal of new physics in the framework of supersymmetry, not supersymmetry and some cases from extra dimensions. We present the boson sector and the Yukawa sector of the scalars models. We research the phenomenology of a model of electroweak scale right-handed neutrino masses, which includes a doublet and two triplets scalar. We present the phenomenology of Higgs charged by relevant processes of decay and production that could be detected at the LHC.

### Summary

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