

Heavy Higgs Search in the Models with Vectorlike Fermions

Tuesday, 29 May 2018 18:10 (20 minutes)

I will discuss models with extended Higgs doublets and extra heavy fermions. In this scenario, a promising way of searching both the neutral heavy Higgs and vectorlike fermion signals at the LHC is observing the heavy Higgs cascade decay into a vectorlike fermion which subsequently decays into W , Z gauge bosons or the SM Higgs boson. In this talk, I will also show the signal sensitivities in the future LHC program, HL/HE-LHC.

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