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The low energy theories of the Higgs sector

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Effective field theory provides an excellent way to organize the modifications to the Standard Model Higgs properties, in the case of an extended Higgs sector.

In this talk, we present the low energy theories for the Higgs sector for some of the most popular beyond the standard model UV completions. For brevity, we only consider the Higgs sector extended with a real singlet (xSM) and with a second doublet (2HDM). The results are simple, illustrative and provide valuable tools for studying the Higgs sector at LHC run II.

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