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【264】 Simplified models of heavy Higgs bosons decaying to supersymmetric particles

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The search for heavy Higgs bosons is an important step to probe the parameter space of the minimal supersymmetric Standard Model. We define simplified models for heavy Higgs bosons decaying to supersymmetric particles by using the SModelS framework. We evaluate the viable parameter space by taking into account limits from the Higgs and flavor sector as well as limits from LHC searches for supersymmetry. Furthermore, we characterize the parameter space resulting in maximal signal at LHC.

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