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Flavor Changing Heavy Higgs Interactions at the LHC

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We adopt a general two Higgs doublet model to study flavor changing neutral Higgs interactions at the LHC. We focus on the production of a heavy Higgs boson (H) decaying into a top quark and a charm quark with the final state of $b c \ell \bar{\nu}$.

In the decoupling limit with a SM-like Higgs scalar (h),

the production ($gg \rightarrow H$) and decay ($H \rightarrow tc$) of H can be sustained by $\sin(\beta - \alpha)$ that is close to one.

Promising results have been found for the LHC with a collider energy of 13 TeV or 14 TeV.

Summary

Primary author(s) : Prof. KAO, Chung (University of Oklahoma)

Co-author(s) : Dr. ALTUNKAYNAK, Baris (University of Oklahoma); Dr. KOHDA, Masaya (National Taiwan University); Prof. HOU, Wei-Shu (National Taiwan University)

Presenter(s) : Prof. KAO, Chung (University of Oklahoma)

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