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## Probing Non-Universal Theories Through Higgs Processes at the LHC

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We explored flavor universality violating models by studying dimension-six effective operators which modify the coupling between the first generation up-quarks, Higgs boson and  $Z$  boson. Through the use of simulated boosted Higgs strahlung events at both the HL-LHC and HE-LHC, as well as existing ATLAS data for background estimates, projected constraints on the scale of new physics as function of the Wilson coefficient was obtained. The constraints from FCNCs to these flavor violating models will also be discussed.

**Primary authors:** CHIU, Wen Han (University of Chicago); WANG, LianTao (University of Chicago); LIU, Zhen (U of Maryland)

**Presenter:** CHIU, Wen Han (University of Chicago)

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