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## Flavor and Higgs Physics in Randall-Sundrum Models

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### Abstract content

#### Summary

We evaluate the three-body flavor-violating Higgs decays, i.e.

$\phi$

$\rightarrow c$

$\bar{b}bW^-$ , which could compete with the two-body decays

$\phi$

$\rightarrow b$

$\bar{b}b, c$

$\bar{b}c,$

$\tau^+$

$\tau^-$ , below the threshold for the mode

$\phi$

$\rightarrow t$

$\bar{b}c$ . The last mode would require  $m_\phi > m_t + m_c$ , which may be in conflict with Electro-Weak precision tests. We work first within the general THDM-III, and then within the Randall-Sundrum set up, which is known to offer an alternative solution to the large hierarchy problem.

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