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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.

ϕ

$\rightarrow c\bar{b}W^-$,

which could compete with the two-body decays

ϕ

$\rightarrow b\bar{c}$,

ϕ

$\rightarrow b\bar{c}$,

ϕ

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

ϕ

$\rightarrow b\bar{c}$.

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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