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Top quark decays in extended models

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Abstract content

The top quark decays are of particular interest as a means to test the standard model (SM) predictions. These include the dominant $t \rightarrow bW$, the Cabibbo-Kobayashi-Maskawa (CKM)-suppressed process $t \rightarrow cWW$, and the rare decays $t \rightarrow cZ$ and $t \rightarrow c \gamma$. They are highly suppressed and they become an excellent window to probe the predictions of theories beyond the SM. In this work we evaluate the effects from new physics on the rare decays $t \rightarrow cZ$ and $t \rightarrow c + \gamma$ within the context of an alternative left-right symmetric model.

Summary

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