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Flavor changing neutral currents beyond the Standard Model

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Models beyond the standard model with extra scalars have been highly motivated by the discovery of the Higgs boson. The two Higgs doublet model type III considers the most general case for the scalar potential, allowing mixing between neutral CP-even and CP-odd scalar fields. This work presents the results of the study on the $t \rightarrow c \gamma$, $t \rightarrow c Z$, and $t \rightarrow c h_1$ decays, where h_1 is the Standard Model Higgs boson. The neutral flavor changing is generated by top-charm-Higgs coupling given by the Yukawa matrix.

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