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## The rare $H \rightarrow q_i q_j$ decays revisited

We revisit the rare decay of the Higgs boson into two different quarks at the one-loop level in the Standard Model. We implement the GIM mechanism in a strict manner, by performing meticulous Taylor expansions of the amplitude's form factors, in order to get rid of spurious terms. We predict  $\text{Br}(H \rightarrow uc)=1.63 \times 10^{-18}$ ,  $\text{Br}(H \rightarrow ds)=9.07 \times 10^{-15}$ ,  $\text{Br}(H \rightarrow db)=1.03 \times 10^{-8}$ ,  $\text{Br}(H \rightarrow sb)=2.44 \times 10^{-7}$ ; our  $\text{Br}(H \rightarrow uc, ds)$  are more suppressed than those previously reported in the literature.

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