

Constraining the $Z'bs$ coupling from the $B \rightarrow X_s \gamma$ decay

Abstract content

The Z' one-loop effects on the flavor-violating $b \rightarrow s \gamma$ process are analyzed. We employ the sequential Z model in order to establish a bound for the flavor-violating $Z'bs$ coupling, $|\Omega_{bs}|^2$. We found a bound of the order of 10^{-1} for the mentioned coupling in the mass range $2 \text{ TeV} < m_{Z'} < 3 \text{ TeV}$.

Summary

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