

Effects of R-parity Violation on the Charged Higgs Boson Decays

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Abstract: We calculate one-loop R-parity-violating coupling corrections to the processes $H^- \rightarrow \tau \bar{\nu}_\tau$ and $H^- \rightarrow b \bar{t}$. We find that the corrections to the $H^- \rightarrow \tau \bar{\nu}_\tau$ decay mode are generally about 0.1%, and can be negligible. But the corrections to the $H^- \rightarrow b \bar{t}$ decay mode can reach a few percent for the favored parameters.

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Key words: radiative correction, charged Higgs decay, R-parity violating, supersymmetry

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