

Weak rare decays for $B \rightarrow \omega$ transitions within covariant confined quark model framework

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We present the branching fractions for the rare semileptonic decay $B \rightarrow \omega \ell^+ \ell^-$ for $\ell = e, \mu, \tau$. The necessary transition form factors are computed in the entire range of momentum transfer within the Standard Model framework of Covariant Confined Quark Model with built-in infrared confinement. We further compute different physical observables such as forward backward asymmetry, longitudinal and transverse polarization and different other angular observables. We compare our findings with other theoretical models and available experimental data.

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