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Rare b→d decays in covariant confined quark model

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We study the rare decays corresponding to b → d transition in the framework of covariant confined quark model. The transition form factors for the channels B→ (π,ρ,ω) and Bs → K(∗) are computed in the entire dynamical range of momentum transfer squared. Using
the form factors, we compute the branching fractions of the rare decays and our results are found to be matching well with the experimental data. We also compute the ratios of the branching fractions of the b → s to b → d rare decays using the inputs from previous papers on this model.

Collaboration

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