

Nonleptonic B decays to radially excited charmless mesons

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Abstract content

Summary

Nonleptonic two-body B decays into radially excited mesons was studied using the framework of generalized naive factorization. We calculated branching ratios of $B \rightarrow P\pi'$, $B \rightarrow V\pi'$, $B \rightarrow P\rho'$ and $B \rightarrow V\rho'$, where P and V are pseudoscalar and vector charmless mesons, respectively. Form factors for $B \rightarrow \pi'$ and $B \rightarrow \rho'$ transitions were calculated in improved version of the Isgur-Scora-Grinstein-Wise quark model. Decay constants for π' and ρ' are estimated using light-cone quark model. In some processes branching ratios of 10^{-6} order were found, which could be reached in experiments.

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