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Ratios of vector and pseudoscalar B meson decay constants in the light cone quark model

We study the decay constants of pseudoscalar and vector B meson in the framework of light cone quark model (LCQM). We apply the variational method to the relativistic Hamiltonian with the Gaussian-type trial wave function to obtain the values of β (scale parameter). Then with the help of known values of constituent quark masses, we obtain the numerical results for the decay constants f_P and f_V , respectively. We compare our results with the other calculations and the existing experimental results.

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