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Masses and Decay Constants of B Mesons

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Masses and decay constants of the B meson have been studied in a framework employing phenomenological quark-antiquark potential(coulomb + linear) model with kinematic relativistic corrections to the kinetic energy term. Variational method using gaussian wave functions both in position and momentum space have been used to obtain low lying masses of the B meson by including spin-orbit, spin-spin and tensor interactions within the potential. Decay constants are also evaluated using the wave function at the origin. The results are compared with various theoretical model predictions and experimental measurements

On behalf of collaboration:

NONE

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