

XXXI International workshop on high energy physics "Critical points in the modern particle physics"



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Type: **Talk**

Decay properties of the B and Bs mesons

For study of masses of the ground, orbitally and radially excited states of heavy-light B and B_S meson using Cornell potential with $\mathcal{O}(1/m)$ correction to the potential energy term. We have also incorporated the relativistic correction to the kinetic energy term of the Hamiltonian. The spin-hyperfine, the spin-orbit and the tensor interactions as well as the effect of mixing are employed to obtain the pseudoscalar, the vector, radially and orbitally excited states meson masses. Leptonic and radiative leptonic decay widths, their branching ratios, E1 transitions and the mixing parameters are also estimated in the present work.

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