

Bottom-charmed meson spectrum from a QCD approach based on the TDA

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The bottom-charmed meson spectrum is studied via an effective version of the Coulomb gauge QCD Hamiltonian. The Tamm-Dancoff approximation is employed to estimate the energies of the low-lying and radial-excited B_c states. In particular, we analyze the effects of incorporating an effective transverse hyperfine interaction and spin mixing. The Regge trajectories and hyperfine splitting of both S- and P-wave states are also examined. The numerical results are compared with available experimental data and the theoretical predictions of other models.

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