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Mass spectra and radiative decays of single charm baryons in the hyperspherical approach

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Employing the hyperspherical approach, we study the ground and excited state mass spectra of the non-strange single charm baryons. Introducing an ansatz method, we solve the Schrodinger equation. The hyperfine interactions are considered as a perturbation in our calculation. We extend our scheme to predict the magnetic moments and radiative decay widths of the baryons. We compare our results with the predictions obtained by other models and with the available experimental data.

In-person participation

Yes

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