

Spectra and Decay Properties of singly beauty Baryons

we study the radial and orbital masses of singly beauty baryons. The hypercentral Constituent Quark Model(hCQM) is employed with screened potential. The calculated mass spectra are compared with the latest results of LHCb collaboration and CMS collaboration as well as with the other theoretical approaches and are found to be in good accordance. The single-pion strong decay widths are calculated for P, S and D- wave transitions. The magnetic moments, transition magnetic moments and radiative decays are also determined.

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