

## Single heavy baryon study via spectra and decay width

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We present a study on single heavy baryons' spectra and strong decay widths. The masses of single heavy baryons up to the D-wave are calculated within a constituent quark model, employing the three-quark and quark-diquark schemes. In this contribution, we discuss the possible assignment of the recently discovered  $\Omega_c^0(3327)$ ,  $\Lambda_b(6146)^0$ ,  $\Lambda_b(6152)^0$ ,  $\Xi_b(6327)^0$ , and  $\Xi_b(6333)^0$  as D-wave excited states in the charm and bottom sectors, respectively. Additionally, we discuss the  $\Lambda_b(6070)^0$  assignment and why the presence or absence of the  $\rho$ -mode excitations in the experimental spectrum is the key to distinguishing between the quark-diquark and three-quark behaviors.

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