

عنوان مقاله:

Heavy Baryons in a Quark Model

محل انتشار:

پنجمین کنفرانس بین المللی فیزیک، ریاضی و توسعه علوم پایه (سال: 1400)

تعداد صفحات اصل مقاله: 11

نویسنده:

Alireza Haghpeima - Department of physics, Faculty of Science, Islamic Azad University, Mashhad Branch, Mashhad, Iran

خلاصه مقاله:

The masses and distance configurations of the ground and excited states of heavy – charmed and bottom baryons $J^P = 1/2^{+}, 3/2^{+}$, containing a single heavy quark and a light diquark are studied within HQS limit of the HQLD sector of NRQCD framework. We find how the average distances between the heavy quark and the center of mass of the light diquark are smaller than the size of the light diquark which is in agreement with expectations from QCD sum rules and lattice QCD calculations.

کلمات کلیدی:

Baryon, Diquark, Heavy Baryon, Lattice QCD, Quark Mass, Quark Symmetry, Sum Rule

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1402472>

