Oral contribution

 J^P assignments of Λ_c^+ baryons

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摘要

The ``good" diquark is employed to study Λ_c^+ baryons within a mass loaded flux tube model. The study indicates that all $\Lambda_{\rm c}^{\ +}$ baryons candidates in the 2008 review by the Particle Data Group (PDG) are well described in the mass loaded flux model. The quantum numbers JP of these Λ_c^+ candidates are assigned. If $\Lambda_c^-(2765)^+$ is an orbitally excited Λ_c^{+} , it is likely the $J^P=3/2^+$ one. If $\Lambda_c(2765)^+$ is an orbitally excited $\Sigma_{c'}$, there ought to be another $J^P=3/2^+$ Λ_{c}^+ literature. $\Lambda_c(2940)^+$ is very possible the orbitally excited baryon with $J^P = 5/2^-$.

diquark, flux tube model, charmed baryons 关键词

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