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Axial-vector form factors of the light, singly and doubly charmed baryons in the chiral quark constituent model

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The axial-vector form factors of the light, singly and doubly charmed baryons are investigated in the framework of $SU(4)$ chiral constituent quark model. The axial-vector form factors having physical significance correspond to the generators of the $SU(4)$ group with flavor singlet λ^0 , flavor isovector λ^3 , flavor hypercharge λ^8 and flavor charmed λ^{15} combinations of axial-vector current at zero momentum transfer. In order to further understand the Q^2 dependence of these charges, we have used the conventionally established dipole form of parametrization.

Submitted on behalf of a Collaboration?

No

Participate in poster competition?

No

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