

Relativistic quark-diquark model of baryons

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We briefly describe our relativistic quark-diquark model [1], developed within the framework of point form dynamics. In order to do that we have to introduce the effective degree of freedom of constituent diquark and show its main properties and quantum numbers. Our results for the nonstrange baryon spectrum [1] and for the nucleon electromagnetic form factors [2] are discussed.

Bibliography

[1] J. Ferretti, E. Santopinto and A. Vassallo, Phys. Rev. C **83**, 065204 (2011).

[2] M. De Sanctis, J. Ferretti, E. Santopinto and A. Vassallo, Phys. Rev. C **84**, 055201 (2011).