

GPDs of ρ meson from a light-front constituent quark model

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Collaboration

Abstract content

The work is about the ρ meson unpolarized generalized parton distributions based on a light-front constituent quark model. The form factors and some other low-energy observables of the ρ meson are calculated. The contributions to the form factors and generalized parton distributions from the valence and nonvalence regimes are discussed and analyzed in detail. Moreover, by employing a Gaussian form wave packet, the ρ meson impact parameter dependent parton distributions and the impact parameter dependent form factors are introduced and discussed.

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