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Generalized parton distribution functions of ρ meson

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Both unpolarized and polarized generalized parton distribution functions (GPDs) of the ρ meson are calculated with the help of a light-front quark model [1-2]. The contributions to the form factors and generalized parton distributions from the valence and nonvalence regimes are discussed and analyzed. Comparing to the available experimental data and Lattice calculation, we find that the present phenomenological model is reasonable to describe the general properties of ρ meson.

[1]Baodong Sun and Yubing Dong, Phys. Rev. D **96**, 036017 (2017).

[2]Baodong Sun and Yubing Dong, Phys. Rev. D **99**, 016023 (2019).

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