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# Generalized parton quasi distributions of the pion

We study the non-perturbative leading twist generalized parton quasi distributions (qGPDs) and transversity generalized quasi distributions (qtGPDs) of the pion in the framework chiral quark models. Such quantities can be directly accessed in lattice QCD simulations, hence our model predictions gain practical significance. We also explore the corresponding Ioffe distributions and various form factors, as well as compute the spin densities of transversely polarized quarks in the impact parameter space, in the spirit of the 3D tomography. The GPDs and tGPDs are evolved from the soft quark model scale to higher scales, accessible in experiments, with the leading-order the DGLAP/ERBL equations. Our model, based on dynamical chiral symmetry breaking, satisfies the Lorentz and gauge symmetries, thus complies to all the formal requirements for quasi distributions, such as normalization or polynomiality, which are explicit in our analytic expressions.

## Submitted on behalf of a Collaboration?

No

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