Generalized Parton Distributions and Transverse Momentum Distribution of Pion

Tuesday, 4 June 2019 15:00 (30 minutes)

Inspired from AdS/QCD light-front wave functions, we calculate the generalized parton distributions (GPDs) of pion. The impact-parameter dependent parton distribution functions (ipdpdf) and the GPDs in longitudinal boost-invariant space are also obtained by taking the Fourier transforms. We also calculate the charge density, gravitational form factor and the unpolarized transverse momentum distribution (TMD) of the pion.

Early Consideration

Yes

Graduate Student

No

Primary authors: DAHIYA, Harleen; Ms KAUR, Navdeep

Presenter: DAHIYA, Harleen

Session Classification: Few-Body Systems

Track Classification: Meson-Nucleon Interactions