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## Lattice QCD Calculation of Pion Distribution Amplitude Using Domain-Wall Fermions at Physical Pion Mass

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Here we present a lattice QCD determination of the first few Mellin moments of the pion distribution amplitude by analyzing the quasi-DA matrix elements using a lattice spacing of  $a = 0.836$  fm. Our work differs from previous work in that we use domain-wall fermions in order to respect chiral symmetry and that calculations are performed at the physical pion mass. First, we analyze ratios of the pion-pion correlator and the pion-quasiDA correlator to determine the bare matrix elements. We then renormalize these using the double-ratio scheme. Finally, we fit these data using the leading-twist Mellin operator product expansion (OPE) to determine the Mellin moments.

### Topical area

Structure of Hadrons and Nuclei

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