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The pion distribution amplitude from SDE-BSE

Abstract content

We project onto the light-front the pion's Poincare-covariant Bethe-Salpeter wave-function, obtained using two different approximations to the kernels of QCD's Dyson-Schwinger equations. At the hadronic scale both computed results are concave and significantly broader than the asymptotic distribution amplitude. Independent of the kernels, the emergent phenomenon of dynamical chiral symmetry breaking is responsible for hardening the amplitude.

Implications for the asymptotic pion electromagnetic form factor are also discussed together with a comparison of the results with Lattice QCD data.

Summary

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