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Pion and Kaon Distribution Amplitudes in Large-Momentum Effective Theory

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We present a lattice-QCD calculation of π , K distribution amplitudes using large-momentum effective theory (LaMET). Our results are calculated at 130-MeV pion mass with three different lattice spacing: 0.06, 0.09 and 0.12 fm, using 2+1+1 flavors of highly improved staggered quarks (HISQ) ensembles generated by MILC collaboration. We use the hybrid renormalization scheme for quasi light-front correlations to properly renormalize both linear and logarithmic divergences in correlation functions at lattice spacing a . The light-cone distribution amplitude (LCDA) of π , K are finally derived by inverse one-loop matching from quasi distribution amplitude.

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