

Continuum-Limit Heavy-Meson LCDAs from Lattice QCD

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Heavy-meson light-cone distribution amplitudes are essential nonperturbative inputs for precision heavy-flavor phenomenology. We present a first-principles lattice-QCD determination of heavy-meson LCDAs in both QCD and HQET using the HQLaMET framework. Simulations on multiple ensembles enable controlled continuum, chiral, and infinite-momentum extrapolations. Improved lattice techniques significantly enhance the quality of nonlocal correlators. For the HQET LCDA, we combine the nonperturbative peak region with the perturbative tail and determine key inverse moments, obtaining ($\lambda_B = 0.340(20)$) GeV at ($\mu = 1$) GeV.

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