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Towards High-Precision Lattice QCD Calculations of Heavy Meson LCDAs

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Heavy meson decays can be investigated using the factorization approach, where the light-cone distribution amplitude (LCDA) of the heavy meson serves as the key non-perturbative input. In this work, we developed a sequential effective theory framework to determine the heavy meson LCDA from first principles. Our lattice simulations are carried out on three different ensembles to enable a reliable continuum extrapolation. To clearly remove the linear divergence at large distances $\lambda = zP^z$, we apply the self-renormalization method.

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