

Vector-meson light-cone distribution amplitude moments from lattice QCD with gradient flow

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We present an ongoing lattice QCD study of vector-meson light-cone distribution amplitude moments using gradient flow on the 2+1+1 flavor HISQ gauge ensembles generated by the MILC Collaboration. As a first step, we focus on the second moment of the ϕ -meson light-cone distribution amplitude, taking into account mixing among the relevant local operators. By comparing results at different flow times, we will investigate the flow-time dependence of the extracted moment. This talk will present the computational setup, analysis strategy, and progress towards determining the second moment of the ϕ -meson light-cone distribution amplitude.

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