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Kinematic enhancement for nucleon interpolators

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We study kinematically enhanced nucleon interpolators using the example of unpolarized isovector nucleon quark matrix elements extracted at large source–sink separations, where excited-state artifacts are significantly suppressed. We find that the precision of the renormalized nucleon matrix elements is typically improved by an order of magnitude at momenta of approximately 2.5 GeV. By comparing results from three CLS ensembles with different lattice spacings but similar pion masses, we observe no statistically significant lattice-spacing dependence in the renormalized matrix elements at nearly identical boost momenta.

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