

Excited state analysis in the quasi-PDF matrix elements

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The momentum smearing technique opens a new window on the lattice simulation with the large hadron momentum, while the good signals are still limited to the data with small source-sink separations. Thus whether the systematic uncertainties from the excited state contaminations can be under control with the those small separations, will be crucial for the hadron matrix element calculation in the moving frame. We will show our investigations on this topic with the quasi-PDF matrix elements.

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