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Matching issue in quasi parton distribution approach

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In recent years, the quasi parton distribution has been introduced to extract the parton distribution functions by the lattice QCD simulation. The quasi and standard distribution share the same collinear IR singularity and the quasi distribution can be factorized into the standard distribution with perturbative matching factor. The quasi parton distribution is known to have power-law UV divergences, which is quite different from the standard distribution. We discuss the UV renormalization scheme in the matching. We also show an example of perturbative matching of the quasi quark distribution between continuum and lattice.

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