

Semi-inclusive diffractive deep inelastic scattering at small-x

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We propose semi-inclusive diffractive deep inelastic scattering (SIDDIS) to investigate the gluon tomography in the nucleon and nuclei at small-x. The relevant diffractive quark and gluon parton distribution functions (DPDF) are computed in terms of the color dipole S-matrices in the fundamental and adjoint representations, respectively.

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