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Low-x gluon TMDs, the dipole picture and diffraction

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We discuss the momentum distributions of gluons and consider the dependence of the gluon parton distribution functions (PDFs) on both fractional (longitudinal) momentum x and transverse momentum p_T , referred to as the gluon TMDs. Looking at the operator structure of the TMDs, we are able to unify various descriptions at small- x including the dipole picture and the notions of pomeron and odderon exchange. We study the structure of gluon TMDs for unpolarized, vector polarized and tensor polarized targets.

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