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Deep inelastic scattering in a light-front Hamiltonian approach

We apply the time-dependent basis light-front quantization (tBLFQ) formalism, a Hamiltonian approach which is suitable for non-perturbative problems to the deep inelastic scattering. We calculate the dipole cross section by explicitly evolving the quark-antiquark dipole in the field predicted by the Color Glass Condensate theory. Our formalism enables us to go
beyond Eikonal approximation and to include higher Fock sector contributions.

Preferred Track

New Theoretical Developments

Collaboration

Not applicable

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