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Aspects of Diffractive Scattering at High Energy and AdS/CFT

Tuesday, 13 July 2021 20:22 (2 minutes)

We present a discussion on recent progress in high energy diffraction from the perspective of AdS/CFT, through which a unified treatment for both perturbative and non-perturbative Pomeron emerges. By working with unitary irreducible representation of conformal group, a frame is provided in extending AdS/CFT to both forward and near-forward scattering. We present an analysis involving an exact solution to conformal blocks in Minkowski CFT and discuss possible applications. Phenomenological applications can range from forward scattering to DIS/DVCS/TMD at LHC energies and beyond.

Preferred track

Forward & Diffractive Physics

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