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Small-x Scattering and Gauge/Gravity Duality

Wednesday, 30 April 2014 15:40 (20 minutes)

We show how scattering at small-x can be studied by Pomeron exchange in AdS space using the gauge/gravity duality, with good results. In this approach the Pomeron at strong coupling is the graviton Regge trajectory. We use AdS space with a hard wall to mimic confinement effects. We use our results to fit HERA data, most recently for vector meson production, where both the proton and vector mesons are described by simple holographic wavefunctions in AdS. Our previous fits to deep inelastic scattering and deeply virtual Compton scattering data will also be briefly discussed.

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