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## Holographic Approach to DIS at Small- $x$ at High Energy

*Tuesday, 28 April 2015 14:00 (25 minutes)*

We focus on a holographic approach to DIS at small- $x$  in high energy where scattering is dominated by exchanging a Reggeized Graviton in  $AdS_5$ . We emphasize the importance of confinement, which corresponds to a deformation of  $AdS_5$  geometry in the IR. This approach provides an excellent fit to the combined HERA data at small  $x$ . We also discuss the constraints of unitarity and causality, and show how these constraints are resolved by the inclusion of string modes.

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**Session Classification:** WG2 Small- $x$ , Diffraction and Vector Mesons

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