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Critical Phenomena in DIS

Saturation in deep inelastic scattering (DIS) and deeply virtual Compton scattering (DVCS) is associated with a phase transition between the partonic gas, typical of moderate x and Q^2, and, a partonic fluid, created at increasing Q^2 and decreasing Bjorken x. In the statistical interpretation of DIS, the large-x, (1-x)^n factor in the structure function (SF) is associated with a perfect gas, while the low-, Regge-behaved factor x^{b(Q^2)} is responsible for the deviation from the perfect gas and ultimately leads to a gas-liquid phase transition.

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