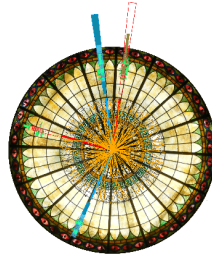


DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and
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Saturation and geometrical scaling: from small x DIS to high energy heavy ion collisions

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Gluon distributions of colliding hadrons saturate as a consequence of non-linear evolution equations of QCD. Saturation implies the existence of the so called saturation momentum, which is related to the gluon density per unit rapidity per transverse area. At large energies in some regions of phase space the saturation momentum is the only scale for physical processes. As a consequence different observables exhibit so called geometrical scaling (GS). We shall briefly discuss theoretical aspects of saturation and then show a number of examples of GS and its violation in different reactions.

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