

XXVIII International Workshop on Deep-Inelastic Scattering and Related Subjects



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Intranuclear fluctuations in eA collisions with Sartre

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We present our recent studies of intranuclear fluctuations in eA collisions using both the saturated and non-saturated dipole models. These have a sizable effect in the large $|t|$ -region of exclusive diffraction. We use a model of geometrical fluctuations, where we extrapolate the fluctuation of nucleon configurations into a model of gluon hotspots within hotspots. As the saturated dipole model modifies the average gluon distribution another nucleon shapefunction is introduced to preserve the description of coherent interactions. The models are implemented in the Sartre event generator and we present EIC predictions.

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