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Double Inclusive Small-x Gluon Production in a Biased Ensemble

We consider reweighted functional averages over the stochastic ensemble of small-x gluons. These correspond to observables over biased event ensembles. Such bias could, for example, be due to the selection of configurations with a greater number of gluons or higher mean transverse momentum squared. We compute the double inclusive gluon spectrum in high energy collisions in kT-factorization ("glasma graphs") to see how a bias modifies their azimuthal correlations. We find that even fairly simple modifications of the gluon distributions in the colliding hadrons or nuclei can have interesting effects on azimuthal correlations.

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