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# Small-x calculations with a Biased Ensemble

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Computing observables in high-energy collisions requires a functional average over the configurations of small-x gluons in the wave functions of the colliding hadrons. We discuss a method for performing biased averages, for example due to a multiplicity or centrality bias, where the gluon distributions of the hadrons are modified from their unbiased average. We consider specifically potential effects due to a bias on the correlator of two Wilson lines, i.e. the dipole scattering amplitude, and on azimuthal angular correlations of gluons at high transverse momentum (the "glasma graphs").

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