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3-parton azimuthal angular correlations as a probe of gluon saturation

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we calculate the cross section for production of three partons in scattering of (real or virtual) photons on a proton or nucleus target at high energy using the Color Glass Condensate formalism. We investigate the azimuthal angular correlations among the three produced partons and show that they are a sensitive probe of saturation dynamics. We outline how this cross section can be used to calculate the Next to Leading Order corrections to di-jet angular correlations at high energy.

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