



Contribution ID: 327

Type: **not specified**

Spinor helicity methods in DIS at small x : 3-parton production

Wednesday, 5 April 2017 12:20 (20 minutes)

We use spinor helicity formalism to calculate production of 3 partons of any polarization in DIS at small x . The target hadron or nucleus is treated as a classical color field from which the partons scatter. We then study the azimuthal angular correlations between the produced partons and show that it is a sensitive probe of gluon saturation at small x . We finally relate this process to Double Parton and Triple Parton Interactions in a proton at large x .

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Session Classification: WG2 Low x and Diffraction

Track Classification: WG2) Low x and Diffraction