

# DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 245

Type: **Parallel talk**

## Probing quark TMDs in the CGC: quark-gluon dijets in DIS

*Wednesday 29 March 2023 10:00 (20 minutes)*

We examine the process of producing a quark-gluon dijet in DIS in the CGC at leading order. We have to go beyond the eikonal approximation by including quark exchanges with the target that we take to be unpolarised. We provide final expressions for the DIS cross sections including quark masses. This might be used as a leverage for experimentally tagging one heavy quark jet and one light jet. Taking the correlation limit in the final expressions, we recover the unpolarised quark TMD at low  $x$  for both longitudinal and transverse photons.

### Submitted on behalf of a Collaboration?

No

### Participate in poster competition?

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**Presenter:** BEUF, Guillaume

**Session Classification:** WG2

**Track Classification:** WG2: Small-x, Diffraction and Vector Mesons