

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



Contribution ID: 203

Type: **Parallel talk**

## Semi-inclusive diffractive DIS at small-x

*Wednesday 29 March 2023 10:50 (20 minutes)*

We propose semi-inclusive diffractive deep inelastic scattering (SIDDIS) to investigate the gluon tomography in the nucleon and nuclei at small-x. The relevant diffractive quark and gluon parton distribution functions (DPDF) can be computed in terms of the color dipole S-matrices in the fundamental and adjoint representations, respectively.

### Submitted on behalf of a Collaboration?

No

### Participate in poster competition?

No

**Primary author:** HATTA, yoshitaka (BNL)

**Co-authors:** XIAO, Bowen; YUAN, Feng

**Presenter:** HATTA, yoshitaka (BNL)

**Session Classification:** WG2

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