

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



Contribution ID: 120

Type: **Parallel talk**

## Precision calculations for Drell-Yan type observables

*Tuesday, 28 March 2023 10:50 (20 minutes)*

In this talk, we plan to discuss recent results on third-order (N3LO) perturbative QCD corrections to observables in massive gauge boson production at the LHC. We describe how existing NNLO calculations for vector-boson-plus-jet processes can be utilized to obtain fully differential N3LO predictions for fiducial cross sections in leptonic final states, using the qT subtraction method. The combination of fixed order predictions with N3LL transverse momentum resummation is outlined.

### Submitted on behalf of a Collaboration?

No

### Participate in poster competition?

No

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**Session Classification:** WG4

**Track Classification:** WG4: QCD with Heavy Flavours and Hadronic Final States