

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



Contribution ID: 88

Type: **Parallel talk**

Heavy-flavor production in global QCD analyses: updates from CTEQ

Tuesday 28 March 2023 15:20 (20 minutes)

We report about the impact of novel high-precision top-quark pair production 13 TeV measurements and other HF data from ATLAS and CMS on the CT18 global analysis of PDFs. We discuss features of a new top-quark data combination which complements the CT18 baseline. We discuss the impact on the gluon PDF and the extraction of the mass of the top quark in the pole mass approximation.

This abstract is suitable for a talk in both the WG1 and WG4 working groups.

Submitted on behalf of a Collaboration?

Yes

Participate in poster competition?

No

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Session Classification: WG 1

Track Classification: WG1: Structure Functions and Parton Densities