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Determination of collinear proton parton distribution functions using LHC data

Monday, 28 November 2022 16:00 (15 minutes)

This talk presents recent data from ATLAS, CMS and LHCb that is sensitive to the proton parton distribution functions (PDFs), including inclusive W and Z boson production, ttbar production, W+jets and Z+jets production, inclusive jet production and direct photon production. The data are used in combination with deep-inelastic scattering data from HERA to extract the PDFs themselves, together with a full assessment of the uncertainties.

Declaration

I certify that I have checked that I am authorised to submit the abstract with the listed co-authors with their current affiliations

Change of Speaker

I understand that change of speaker is allowed provided that no participant gives more than one talk. Otherwise, we will ask the speaker to choose between one or the other abstract to be presented.

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Session Classification: Parallel C - WG7: 2

Track Classification: WG7: Parton tomography from 1D to 5D