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The impact of Z_{pt} data on PDF determinations

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Recently released ATLAS and CMS measurements of the Z transverse momentum distribution in vector boson hadroproduction have the potential to significantly constrain the gluon and light quark PDFs in a range of Bjorken-x that is relevant for Higgs production.

In this talk I will review the most recent data and discuss their inclusion in a PDF determination based on the NNPDF methodology. In particular, I will discuss their impact on PDF uncertainties and predictions for physical cross-sections relevant to precision Higgs phenomenology.

Experimental Collaboration

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