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Z'-boson dilepton searches and the high-x quark density

Friday 2 December 2022 09:20 (15 minutes)

We study the influence of theoretical systematic uncertainties due to the quark density on LHC experimental searches for Z'-bosons.

Using an approach originally proposed in the context of the ABMP16 PDF set for the high-x behaviour of the quark density, we presents results on differential cross section and Forward-Backward asymmetry observables commonly used to study Z' signals in dilepton channels.

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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