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The measurement of W boson in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV with the CMS detector

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The measurement of the W boson in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV is presented. The muon decay channel was used to study both positive and negative W bosons production as a function of muon pseudorapidity. Rapidity and charge asymmetries in the W yield are also shown, and a comparison with theoretical predictions with and without nuclear PDF (nPDF) effects is made. The measurement is sensitive to the presence of nuclear modifications to the parton distributions in the lead nucleus, and can help improve and constrain future nPDF calculations.

Content type

Experiment

Collaboration

CMS

Centralised submission by Collaboration

Presenter name already specified

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