

DIS 2015 - XXIII. International Workshop on Deep-Inelastic Scattering and Related Subjects

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Vector Boson production with Heavy Ions at the LHC

High Energy proton-proton collisions at the LHC are capable of producing many electroweak bosons (W/Z) at high rapidity. Measurements of properties of these particles are essential standard candles used to calibrate detectors such as ATLAS and CMS. The collision of heavy nuclei can show significant modifications to the distribution of these bosons. We will present an analysis of electroweak boson production in lead-lead and proton-lead collisions at the LHC using the nCTEQ nuclear Parton Distribution Functions (nPDFs). The cross-sections are calculated at NLO with FEWZ at 2.76 and 5.02 TeV respectively. Comparison to other popular nPDF distributions will also be presented.

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