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Nuclear corrections to Vector Boson production at the LHC

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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. 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 collisions at the LHC using the nCTEQ nuclear Parton Distribution Functions. Comparison to the proton-proton predictions will be provided.

Author: Mr CLARK, David (SMU)

Co-authors: Dr KUSINA, Aleksander (Southern Methodist University); Prof. OLNESS, Fred (Southern Methodist University)

Presenter: Mr CLARK, David (SMU)

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