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PDF Flavor Determination with LHC W/Z production

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We use nCTEQ15 nPDFs with uncertainties to identify measurements which have a potential impact on nuclear corrections and flavor differentiation. In particular, recent LHC W/Z vector boson production data in proton-lead and lead-lead collisions are quite sensitive to heavier flavors (especially the strange PDF). This complements the information from neutrino-DIS data. As the proton flavor determination is dependent on nuclear corrections (from heavy target DIS, for example), this information can also help improve proton PDFs.

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