

XXVI International Workshop on Deep Inelastic Scattering and Related Subjects



Contribution ID: 155

Type: **not specified**

PDF Flavor Determination and the nCTEQ15 PDFs

Wednesday, April 18, 2018 11:50 AM (20 minutes)

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.

Primary authors: GODAT, Eric (Southern Methodist University); JEZO, Tomas (University of Zurich); KEPPEL, Cynthia (Jefferson Lab); KOVARIK, Karol; KUSINA, Aleksander (Institute of Nuclear Physics PAN); MORFIN, Jorge G. (Fermilab); OLNESS, Fred (Southern Methodist University); OWENS, Joseph (Florida State University); SCHIENBEIN, Ingo (Universite Joseph Fourier); Dr YU, Ji-Young (LPSC)

Presenter: OLNESS, Fred (Southern Methodist University)

Session Classification: WG1: Structure Functions and Parton Densities

Track Classification: WG1: Structure Functions and Parton Densities