

12th International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions



Contribution ID: 8

Type: **Oral presentation**

Nuclear PDFs from the nCTEQ collaboration

Monday, 23 September 2024 15:00 (20 minutes)

Recently in the nCTEQ group we have performed a number of dedicated analyses investigating different important aspects related to nuclear parton distribution functions (nPDFs). This includes: analysis of the low- x distributions with help of p-Pb heavy quark(onium) data from the LHC; study of the high- x region by including JLAB DIS data and systematically investigating theoretical aspects related to this region, such as, target mass corrections or deuteron corrections; reanalysis of the available DIS neutrino data and others. All these efforts are now being combined into a new global nPDF analysis - nCTEQ24. In the current talk I will present preliminary results of this new analysis.

Category

Theory

Collaboration

Primary author: KUSINA, Aleksander

Co-authors: Prof. OLNES, Fred (Southern Methodist University (US)); SCHIENBEIN, Ingo (Universite Grenoble Alpes); KOVARIK, Karol; KLASSEN, Michael; JEZO, Tomas (WWU ITP)

Presenter: KUSINA, Aleksander

Session Classification: Parallel Session 3

Track Classification: 5. Nuclear PDFs, saturation, and early time dynamics