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Recent global fits of the polarized and » unpolarized PDFs from JAM collaboration

The JAM collaboration has carried out several recent works in global QCD analysis, and I will summarize some of them in this talk.

The JAM-20-SIDIS, which was published in 2020, features simultaneous fit of the PDFs and FFs including unidentified charged hadrons and confirms the suppression of the strange quark PDF observed in JAM19.

More recently in October 2021, an analysis using the latest DIS data on helium and tritium from the MARATHON collaboration was published, which reveals an isovector component to the EMC effect at high x using a simultaneous study of nucleon PDFs and nuclear effects.

Later in this year, a simultaneous extraction of both helicity basis PDFs will be available on arXiv, in which we also critically studies the impact of theory assumptions on the spin-dependent PDFs.

Lastly, I will talk about the sea asymmetries ($\bar{u} - \bar{d}$ or $\Delta\bar{u} - \Delta\bar{d}$) extracted with the latest data from the SeaQuest and STAR collaborations.

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