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Impact of inclusive hadron production data on nuclear gluon PDFs

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Gluon parton distribution functions (PDF) in protons and nuclei are known to be difficult to determine with fits of deep inelastic scattering (DIS) and Drell-Yan (DY) data alone. The nCTEQ15 analysis of nuclear PDFs therefore resorted also to inclusive neutral pion production data from RHIC. In this talk, we present a new global analysis of nuclear PDFs based on a much larger set of single inclusive light hadron data from RHIC and the LHC and study systematically the impact of the choice of the fragmentation function.

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