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New Results on PDFs in Nucleons and Nuclei

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We report an observation of new properties of valence quark partonic distribution that allows to derive new relations that can be used to constrain phenomenological parameterizations of PDFs. These relations allow to formulate a “mean field theorem” according to which no fixed number constituent exchanges can be responsible for the valence quark distributions in $0.1 < x < 0.3$ region. This in turn explains why no nuclear medium modification is observed for partonic distribution in this regio

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