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How large is the gluon polarization in the statistical parton distributions approach?

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We review the theoretical foundations of the quantum statistical approach to parton distributions and we show that by using some recent experimental results from Deep Inelastic Scattering, we are able to improve the description of the data by means of a new determination of the parton distributions. We will see that a large
gluon polarization emerges, giving a significant contribution the the proton spin.

Primary author: Prof. SOFFER, Jacques (Temple University, Philadelphia, PA, USA)

Co-authors: Prof. BOURRELY, Claude (Aix Marseille Université, Marseille, France); Prof. BUCCELLA, Franco (INFN, Napoli, Italy)

Presenter: Prof. SOFFER, Jacques (Temple University, Philadelphia, PA, USA)

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