

# XX International Workshop on Deep-Inelastic Scattering and Related Subjects



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## The statistical model for parton distributions

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First we recall the basic physical features of the parton distribution functions (PDF) in the quantum statistical approach of the nucleon. Several predictions from next-to-leading QCD calculations using these PDF are compared with recent experimental results: deep inelastic scattering from HERA, hadronic reactions from Tevatron and RHIC, neutrino data and also polarized data obtained by Compass at CERN and by the polarized pp collider at BNL.

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