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Newest COMPASS results on longitudinal and transverse nucleon spin structure.

Friday 7 July 2017 15:00 (15 minutes)

The COMPASS experiment at CERN has performed a rich programme in inclusive and semi-inclusive deep inelastic scattering of longitudinally polarised muons off longitudinally, transversely polarised and unpolarised nucleons. The main topic is the investigation of the spin structure of the nucleon in terms of quark and gluons, both through accessing the spin dependent collinear parton distribution functions and through studying the transverse momentum dependent TMD PDFs. The newest results on the spin structure function of the proton and the deuteron, on the transversity and Sivers PDFs and the measurements of hadron multiplicities will be shown. Plans for the near future will also be presented.

Experimental Collaboration

COMPASS

Presenter: LEVORATO, Stefano (Universita e INFN, Trieste (IT))**Session Classification:** QCD and hadronic physics**Track Classification:** QCD and Hadronic Physics