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Polarized Drell-Yan measurements at COMPASS

Thursday 11 May 2017 09:00 (30 minutes)

COMPASS is a fixed-target experiment that was put in operation in 2002 at CERN (SPS, M2 beamline). An important part of its physics programme is the exploration of the transverse spin structure of the nucleon via measurements of spin (in)dependent azimuthal asymmetries in semi-inclusive DIS and, recently, also in Drell-Yan processes. Drell-Yan measurements with a π^- beam interacting with a transversely polarized NH_3 target started with the 2015 run and will be continued in 2018. The measurement of the Sivers and other azimuthal asymmetries in polarized SIDIS and Drell-Yan performed by COMPASS provides a unique possibility to test (pseudo-)universal features of transverse momentum dependent parton distribution functions, predicted in QCD. Results of the first ever measurements of the polarised Drell-Yan reaction performed by COMPASS will be presented.

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Session Classification: Thursday Morning (20min talks + 10min discussions)