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The Gluon Sivers effect measurement at COMPASS from high-pt hadron pairs.

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The COMPASS collaboration has recently released results of the gluon contribution to the Sivers effect measurement from high-pt hadron pairs both for proton and deuteron targets. The analysis method is based on the assumption that in the high Q^2 range three processes contribute to the cross section: Leading Process, QCD Compton and Photon Gluon Fusion. The selection of high-pt hadron pairs enhances the fraction of PGF events in the sample and assures weak kinematic dependence of the asymmetries for each process. A novel approach of event-by-event weighting based on Monte Carlo simulations and with the use of Neural Networks is applied to extract all three asymmetries from the same data sample.

Session

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Session Classification: New channels: Λ , J/Ψ , high p_T pairs \cdots production in SIDIS