



Contribution ID: 269

Type: **not specified**

The Drell-Yan Process from Pions on Transversely Polarized Proton Targets at COMPASS

Wednesday 28 September 2016 20:00 (2 hours)

The COMPASS spectrometer at CERN took data in 2015 from a 190 GeV pion beam impinging on a vertically polarized proton target. The proton target consisted of two cells oppositely polarized with the polarization switched after each week. The goal of the 2015 COMPASS Drell-Yan data taking is to measure the Sivers amplitude from single spin asymmetries and therefore be able to determine a sign change between the Sivers function in semi-inclusive deep inelastic scattering (SIDIS) and the Drell Yan process. COMPASS data has previously measured a non zero Sivers function from SIDIS and therefore COMPASS offers a unique opportunity with similar experimental setups and kinematic parameters to find a sign change between the Drell Yan and SIDIS processes. Three of nine physics periods have been reconstructed.

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Session Classification: Poster

Track Classification: C. TMDs