

Abstract Submitted
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Recent COMPASS results on transverse spin asymmetries in SIDIS TAKAHIRO IWATA, NORIHIRO DOSHITA, KAORI KONDO, Yamagata University, SHIGERU ISHIMOTO, KEK, HIROKI MATSUDA, YOSHIYUKI MIYACHI, Yamagata University, NAOAKI HORIKAWA, HAJIME SUZUKI, Chubu University, TATSURO MATSUDA, Miyazaki University, GENKI NUKAZUKA, Yamagata University, COMPASS COLLABORATION — The nucleon spin structure has been studied in COMPASS at CERN by measurements of spin asymmetries in the semi inclusive deep inelastic scattering(SIDIS) with a muon at 160 GeV/c off a transversely polarized nucleon target. These allow investigation of the Collins and Sivers asymmetries and two-hadron production asymmetries. The Collins and the two-hadron production asymmetries have a connection to the transverse spin distribution function called transversity. The Sivers asymmetry gives Sivers function which is one of the transverse momentum dependent parton distribution functions of the nucleon. Recent results of the analysis with the SIDIS data obtained in 2008 and 2010 for proton will be shown.

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