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Transverse target spin asymmetries in exclusive ρ^0 muoproduction

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Generalized parton distributions (GPDs) provide a dynamical picture of the nucleon. The exclusive production of ρ^0 mesons off a transversely polarised target is sensitive to the nucleon helicity-flip GPDs E which are related to the total angular momentum of quarks and gluons.

In 2007 and 2010 the COMPASS experiment at CERN collected data by scattering a 160 GeV/c muon beam on a transversely polarised NH_3 target. The final state particles were detected with the two-stage spectrometer with high resolution tracking and calorimetry. In this talk new results for the azimuthal asymmetries A_{UT} and A_{LT} are presented.

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