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Transverse structure of the nucleon at COMPASS

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COMPASS is a fixed target experiment at the CERN SPS M2 beam line, taking data since year 2002. Part of its physics programme is dedicated to study the transverse spin and the transverse momentum structure of the nucleon using semi- inclusive deeply inelastic lepton scattering (SIDIS). For these measurements, data have been collected using transversely polarised proton (NH3) and deuteron (6LiD) targets. A selection of recent results on the azimuthal asymmetries measured from the data collected with transversely polarised targets is presented, with particular focus on the most recent measurements from the data collected in 2007 and 2010 with the proton target. These results covers Collins, Sivers asymmetries versus different combination of kinematic variables as well as the transverse spin asymmetries in dihadron production.

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