XXI International Workshop on Deep-Inelastic Scattering and Related Subjects

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New COMPASS results on the proton spin-dependent structure function g_1^p

Tuesday 23 April 2013 14:20 (20 minutes)

New results on the double spin asymmetry A_1 and the spin-dependent structure function of the proton g_1^p as a function of x_{Bj} and Q^2 will be presented. They rely on the DIS data collected in 2011 by the COMPASS Collaboration with a polarised muon beam of 200 GeV and a polarised NH_3 target. The high energy of the beam allows A_1 measurements down to x_{Bj} = 0.0025 for the first time and extends the Q^2 range, which bring new inputs for QCD global fits of world data. The latest impact of the COMPASS data on the QCD fits will also be presented.

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