

The deuteron spin-dependent structure function g_1^d

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Results on the deuteron longitudinal inclusive spin-dependent asymmetry A_1^d and the spin-dependent structure function g_1^d are presented. The data have been collected by the COMPASS experiment at CERN during the years 2002-2004 using 160 GeV/c polarised muon beam scattered off a polarised ^6LiD target. The obtained values for Γ_1^d , the first moment of $g_1^d(x)$, and for the flavor-singlet axial current matrix element, a_0 are also shown. The results of the QCD fits in the NLO approximation on all g_1^d deep inelastic data are presented.

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