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New COMPASS Results on Polarized Parton Distributions Inside the Nucleon

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A short review of the COMPASS results concerning gluon polarization inside the nucleon, DG/G , is given including two new measurements: Firstly, a DG/G determination in leading order and in three bin of the gluon momentum fraction x_g from asymmetries in high- p_T hadron pair production for $Q^2 > 1 \text{ (GeV/c)}^2$; secondly, a preliminary next-to-leading order analysis based on open charm production, i.e. D mesons decaying via various channels. The latter result is obtained from our combined proton and deuteron data.

In addition the cross-section for the D^* production is given and kinematic distribution of the D^* are compared with the AROMA generator. Finally results for the LO flavor separation of the three lightest quark polarized parton distributions.

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