

Determination of $\Delta G/G$ from HERMES Data on high- p_T inclusive charged hadrons

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HERMES has used a high statistics data sample of charged inclusive hadrons to measure double spin asymmetries as a function of p_T . From these asymmetries $\Delta g/g$ has been extracted in the region of $1 < p_T < 2$ GeV, corresponding to $x \approx 0.2-0.3$. The information on the background asymmetry and the subprocess kinematics has been obtained from a Leading Order Monte Carlo model and existing parametrizations of the spin dependent quark distributions. Values for $\Delta g/g$ have been calculated both as a function of the measured p_T and x . The results will be presented together with comparisons of the Monte Carlo and data and a study on the effects of varying the model's parameters.

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