

Determination of $\Delta G/G$ from open charm events at COMPASS

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One of the main goals of the COMPASS experiment at CERN is the determination of the gluon polarisation in the nucleon, $\Delta G/G$. It is determined from spin asymmetries measured in the scattering of 160 GeV/c polarised muons on a polarised LiD target. The gluon is accessed by the selection of photon-gluon fusion events. A selection of PGF events can be obtained with charmed mesons in the final state. Their detection is based on the reconstruction of decayed D^{*+} and D^0 mesons in the COMPASS spectrometer. The analysis method will be discussed and the final result for $\Delta G/G$ from the open charm channel for the 2002-2004 data taking period will be presented.

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