

Longitudinal quark distributions from DIS and SIDIS measured in COMPASS

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An overview of recent COMPASS (NA58/SPS) results on the determination of longitudinal polarized quark distributions is given.

The results were obtained in inclusive and semi-inclusive deep-inelastic scattering of a 160 GeV polarized muon beam off a large polarized ${}^6\text{LiD}$ target. The covered kinematics range is $0.004 < x < 0.7$ and $1 < Q^2 < 100$ (GeV/c)². The presented data were collected by COMPASS in the years 2002–2004. A projection of the statistical precision for the data collected on deuterons from the same ${}^6\text{LiD}$ target in 2006 and on protons from NH_3 target in 2007 is presented.

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