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Nuclear Experiment

Gluon polarization measurements with inclusive jets at STAR

Pibero Djawotho, for the STAR Collaboration

(Submitted on 28 Jun 2011)

At RHIC kinematics, polarized jet hadroproduction is dominated by \$gg\$ and \$qg\$ scattering, making the jet double longitudinal spin asymmetry, \$A_{LL}\$, sensitive to gluon polarization in the nucleon. I will present STAR results of \$A_{LL}\$ from inclusive jet measurements for the RHIC 2006 run at center-ofmass energy 200 GeV. I will also discuss the current status of the analysis of data from the 2009 run, also at center-of-mass energy 200 GeV. The results are compared with theoretical calculations of \$A_{LL}\$ based on various models of the gluon density in the nucleon. The STAR data place significant constraints on allowed theoretical models.

Comments: 4 pages, 5 figures, XIX International Workshop on Deep-Inelastic

Scattering and Related Subjects (DIS 2011)

Nuclear Experiment (nucl-ex) Subjects: Cite as: arXiv:1106.5769 [nucl-ex]

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