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Longitudinal Double Spin Asymmetry in Jets in s = 510 polarized p+p

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The longitudinal double-spin asymmetry (ALL) is spin-polarized p+p collisions provides insight into the gluon contribution to the proton's spin by accessing the gluon helicity distribution Δg. The PHENIX π0 and STAR jet ALL measurement show a non-zero asymmetries and hence indicate a nonzero Δg in an NLO analysis. The STAR measurements of jet A LL in √s = 200 and 510 GeV polarized p+p collisions provide the strongest constraints on Δg at intermediate to high x. Using new jet reconstruction techniques developed for the PHENIX detector, a measurement of the jet ALL at √s = 510 GeV in PHENIX will provide an important cross check on the results from STAR. In this poster I will highlight the progress of this analysis effort in PHENIX.

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