

Abstract Submitted
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On measuring the double longitudinal spin asymmetry A_{LL} for non-photonic electrons in polarized $\vec{p} + \vec{p}$ collisions at STAR PRISCILLA KURNADI, UCLA, STAR COLLABORATION — The measurement of the gluon's spin structure function $\Delta g(x)$ in the proton is one of the main focuses of the STAR spin program. In polarized proton-proton collisions at RHIC, one of the processes sensitive to $\Delta g(x)$ is heavy flavor quark production through gluon fusion $gg \rightarrow q\bar{q}$. A way to access these heavy quarks is through the non-photonic electrons resulting from their semi-leptonic decays. This contribution will describe an analysis to obtain the first measurement of A_{LL} for non-photonic electrons produced in $\sqrt{s} = 200\text{GeV}$ $\vec{p}\vec{p}$ collisions at RHIC in 2005.

Priscilla Kurnadi
UCLA

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