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Parity violating single spin asymmetry in W production from longitudinally polarized $p+p$ collisions at 500 GeV

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Electrons from W^\pm decays have been observed in longitudinally polarized $p+p$ collisions at $\sqrt{s} = 500$ GeV in the PHENIX detector at RHIC. The electron energy spectrum from W decays measured with an integrated luminosity of approximately 10 pb^{-1} will be shown. A measurement of the electron single spin asymmetry which measures the spin structure of flavor identified quarks and antiquarks in the proton will be reported.

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