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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  $10 \text{ pb}^{-1}$  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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