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Cross Sections and Spin Observables for Forward Jet Production

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Forward particle production can be observed to large Feynman x at $\sqrt{s} > 60$ GeV in colliding beam experiments at RHIC. Large transverse single spin asymmetries (SSA) have been measured for pion production at large x_F and to surprisingly large transverse momentum values. As an intended prelude for SSA measurements of forward Drell-Yan production of low-mass dileptons (AnDY), we measured cross sections and SSA for large- x_F jets. This talk will provide a comprehensive review of the inclusive-jet measurements and also dijet measurements by AnDY, for transversely polarized proton collisions at $\sqrt{s}=500$ GeV. Prospects for extending such measurements to heavy-ion collisions are also presented. Subsequent development of the calorimetry provides clear prospects for future efforts.

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