

Abstract Submitted
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Forward GEM Tracker (FGT) at STAR BERND SURROW, Temple University, STAR COLLABORATION — As part of our program to understand the internal structure of the proton, we have and will continue mid-rapidity ($-1 < \eta < 1$) W and di-jet measurements in p+p collisions at $\sqrt{s} = 500\text{GeV}$. The ongoing STAR W program is exploring the longitudinal spin contribution of anti-u and anti-d quarks to the proton spin. The gluon spin contribution can be probed through di-jet measurements. The Forward GEM Tracker (FGT) at STAR will enhance the charged sign separation for high p_T tracks in the pseudo-rapidity range of $1.0 < \eta < 2.0$, and therefore allows an extension of W and di-jet measurements at forward pseudo-rapidity. We will present the status of the FGT assembly and completion along with projections for future W and di-jet measurements. We will discuss studies that explore the possibilities of using the FGT to reconstruct jets in the forward direction.

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