STAR Update for Run 11

Pibero Djawotho for the STAR Collaboration

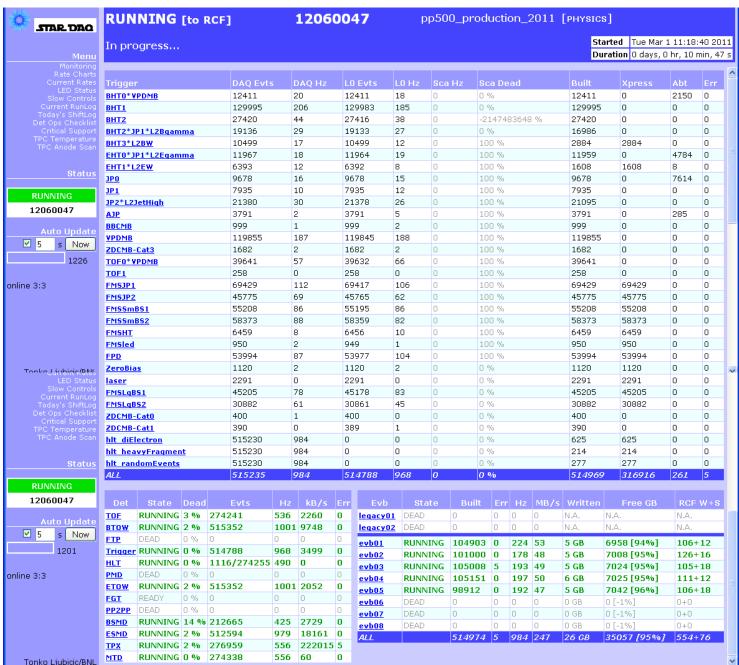
Texas A&M University

1 March 2011

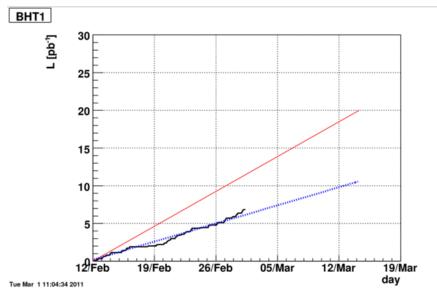


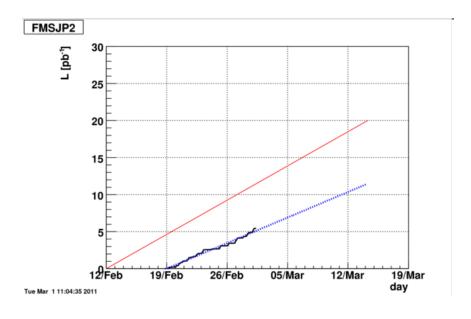


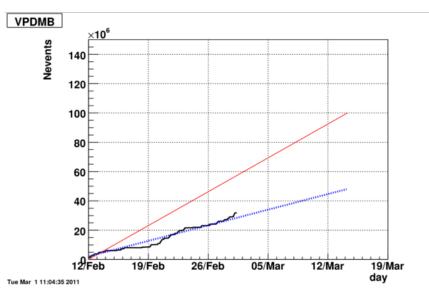
Screen Shot of STAR Triggers for 500 GeV Transverse Program



Goals, current status and projections







Single-Spin Asymmetry

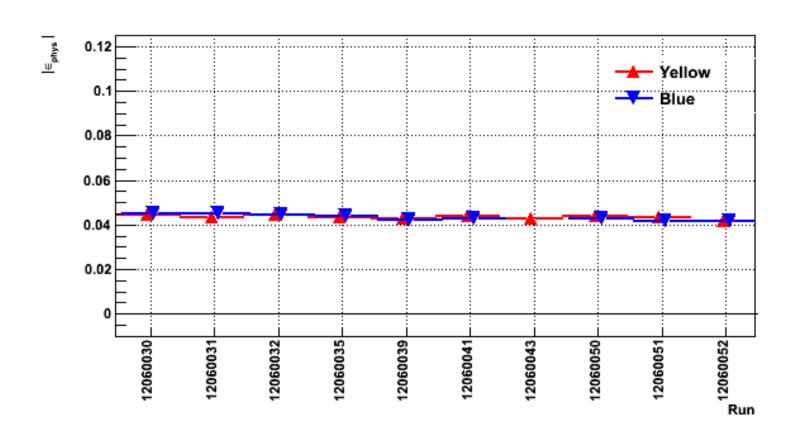
"Good hit" = intersection of one horizontal and one vertical slat, each having highest ADC – PED At maximum, one good hit in a detector per event

"Square root formula"

$$\epsilon_{phys} = \frac{\sqrt{N_L^{\uparrow} N_R^{\downarrow}} - \sqrt{N_L^{\downarrow} N_R^{\uparrow}}}{\sqrt{N_L^{\uparrow} N_R^{\downarrow}} + \sqrt{N_L^{\downarrow} N_R^{\uparrow}}}$$

Hit counts are summed over the second beam spin state

ZDC scaler polarimetry



Conclusion

- Running wide array of triggers for Run 11 pp500 transverse program
- Need more luminosity to reach our goals
- ZDC scaler polarimetry working very well during Run 11