

Update on STAR Status

AGS/RHIC Time Mtg

March 5, 2013

Bill Christie

Outline/Summary:

- Work on STAR Trigger and Sub system timing has been extensive
 - At this point we believe we're set for Run 13.
- Extensive effort to get local ZDC based Polarimetry "vetted" into two scalar systems (24 and 48 bit) and through raw data analysis.
 - Some minor tweaking will continue, but we're ready to switch to longitudinal polarization, and provide Real-time feedback for rotator current tuning.
- Still working on tuning/commissioning of FGT and FMS
- Full Shift crews starting today. We're working to get entire STAR system up and running physics triggers configuration. Few days of tuning to go.

Preliminary STAR Scalar based ZDC Polarimetry data from this morning's Store

STAR Spin Monitor

[Spin Pattern](#)

[Timing](#)

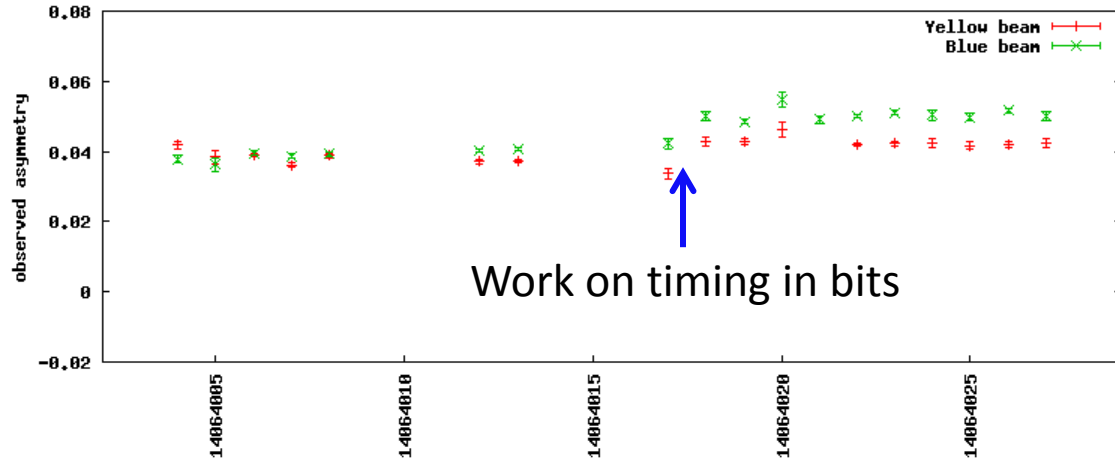
[ZDC Polarimetry](#)

[Documentation](#)

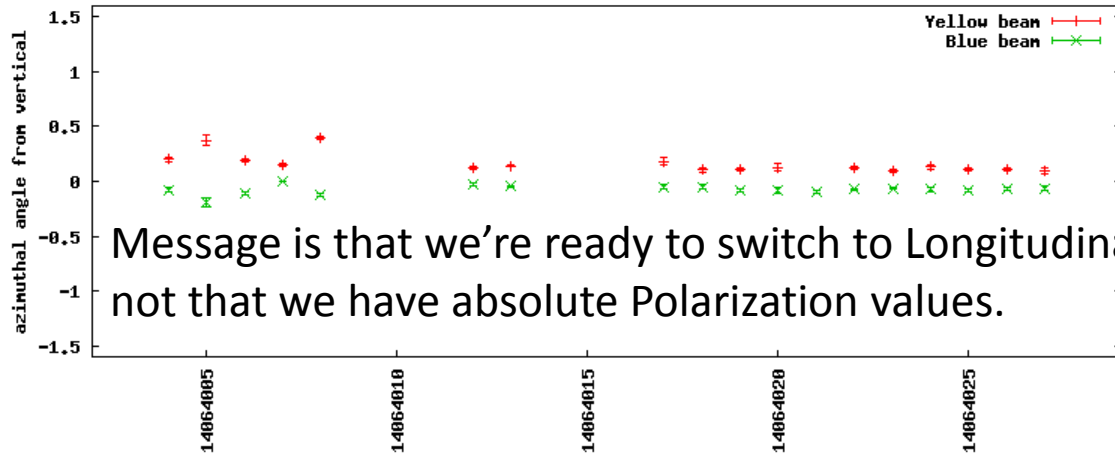
[Contact](#)

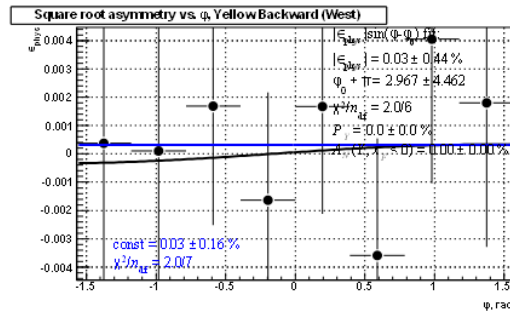
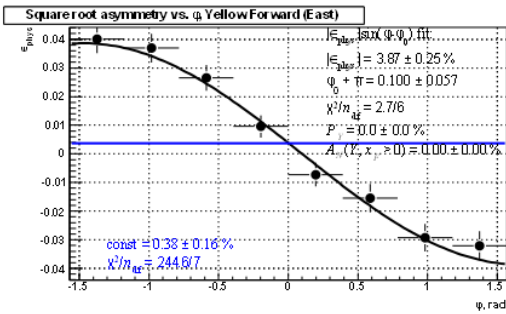
Online polarimetry (ZDC) for Fill:

Fill=17169 (runs of the first day are offset by +850 if data taking extended past midnight)

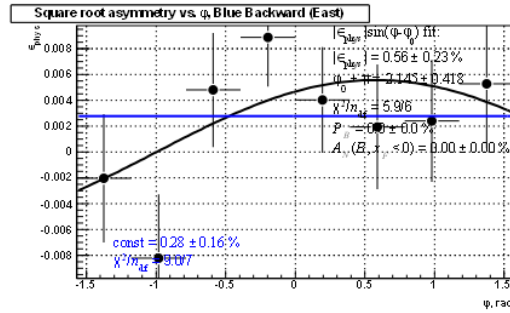
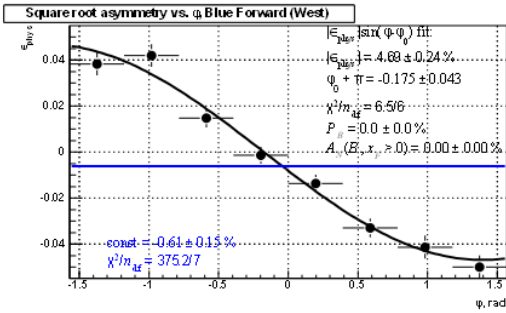


Fill=17169 (runs of the first day are offset by +850 if data taking extended past midnight)



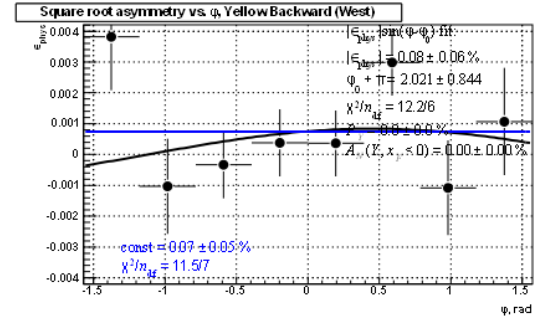
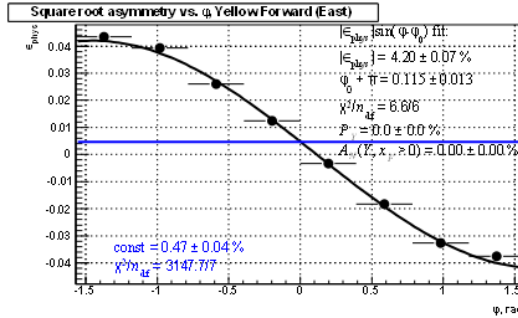


← “Raw” data
 $Y \varepsilon_{\text{phys}} = 3.87 \pm 0.25\%$
 $B \varepsilon_{\text{phys}} = 4.69 \pm 0.24\%$



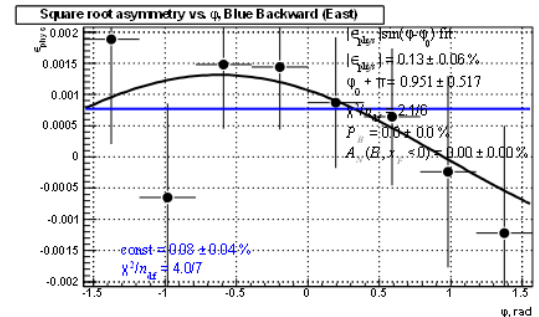
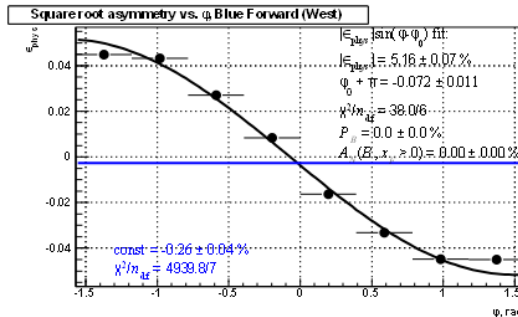
Fill 17169. Today ~ 9 am.

ZDC Single Spin Asymmetry (run 14064026)
 Tue Mar 5 09:07:36 2013



Scalar data

$Y \varepsilon_{\text{phys}} = 4.20 \pm 0.07\%$
 $B \varepsilon_{\text{phys}} = 5.16 \pm 0.07\%$



ZDC Single Spin Asymmetry (run 14064026)

Tue Mar 5 09:27:44 2013