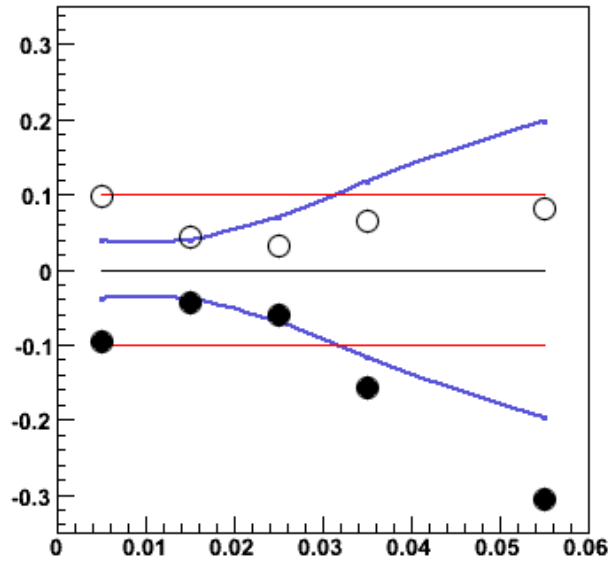
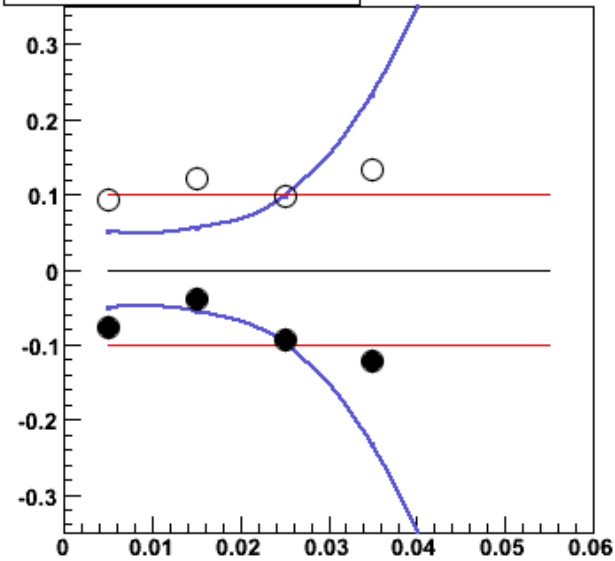


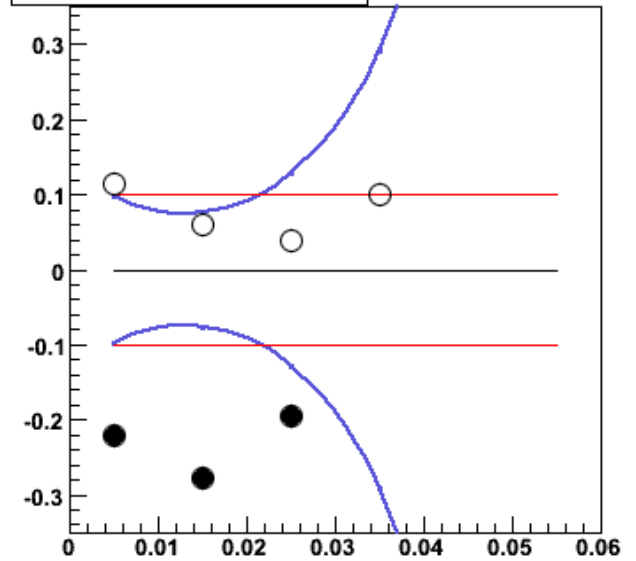
X_p^{obs} Overall



$X_p^{obs}, X_\gamma^{meas} > 0.8$ Overall

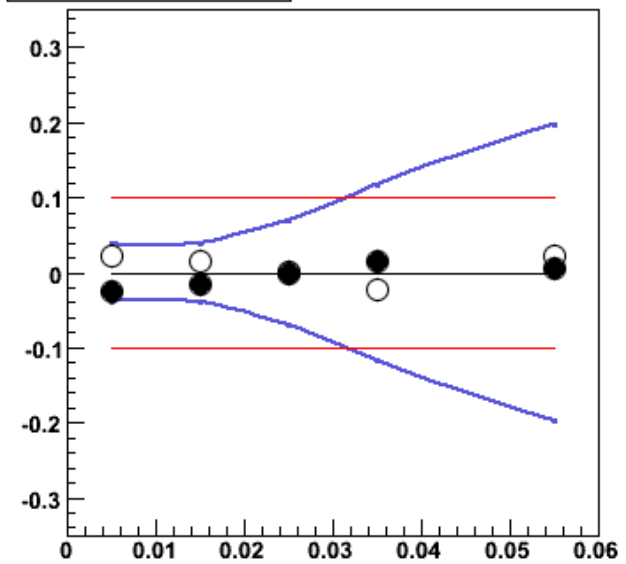


$X_p^{obs}, X_\gamma^{meas} < 0.7$ Overall

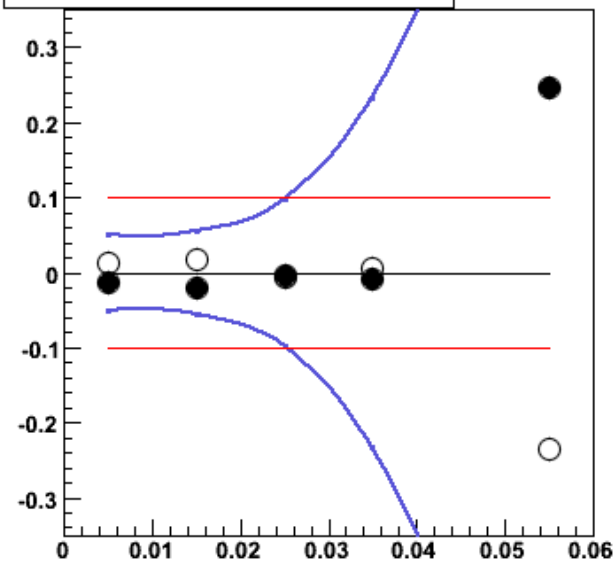


- *Rel. statistical uncertainties*
- *10% line*
- *upper sum*
- *lower sum*

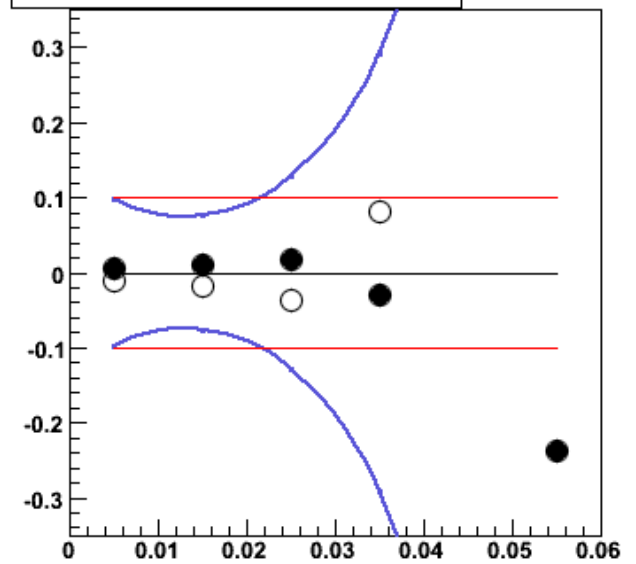
X_p^{obs} Dir / Res ratio



$X_p^{obs}, X_\gamma^{meas} > 0.8$ Dir / Res ratio



$X_p^{obs}, X_\gamma^{meas} < 0.7$ Dir / Res ratio



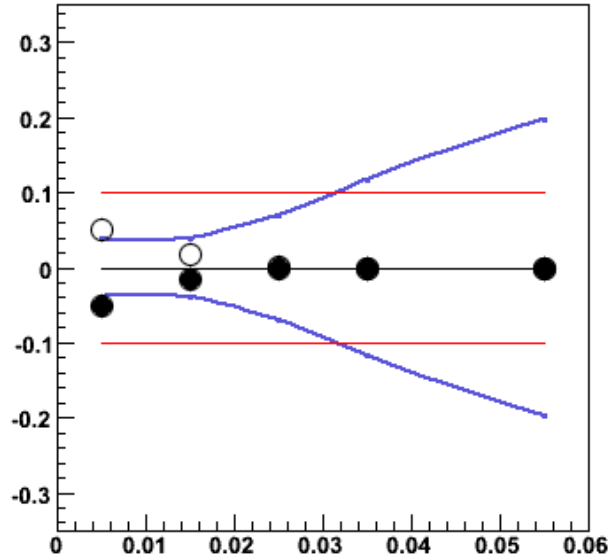
— *Rel.statistical uncertainties*

— *10% line*

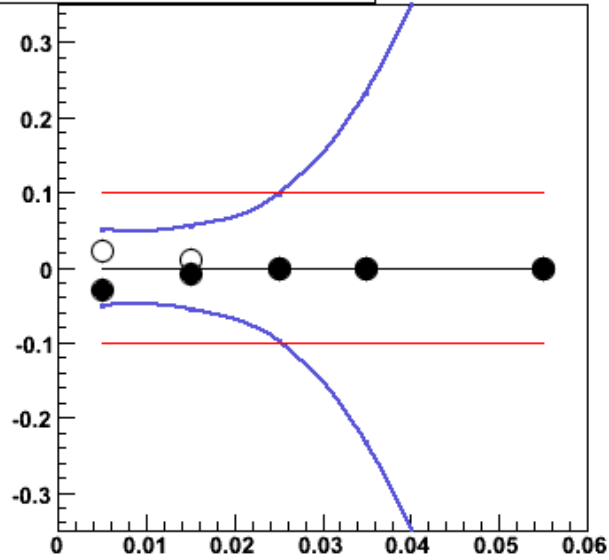
○ *-15% resolved*

● *+15% resolved*

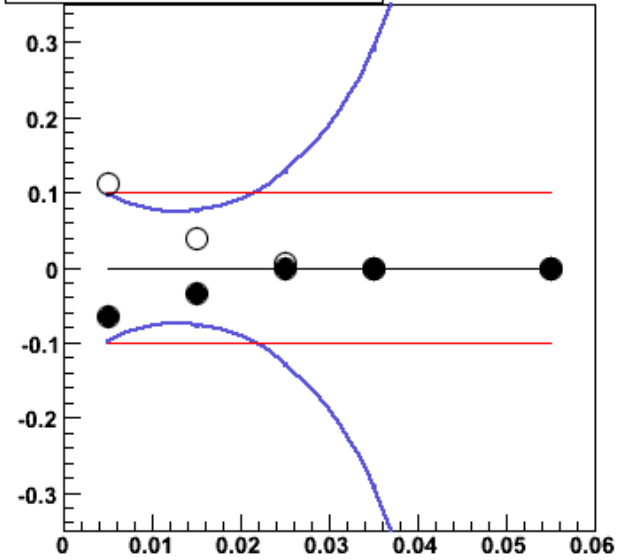
X_p^{obs} UncorJE



$X_p^{obs}, X_\gamma^{meas} > 0.8$ UncorJE



$X_p^{obs}, X_\gamma^{meas} < 0.7$ UncorJE



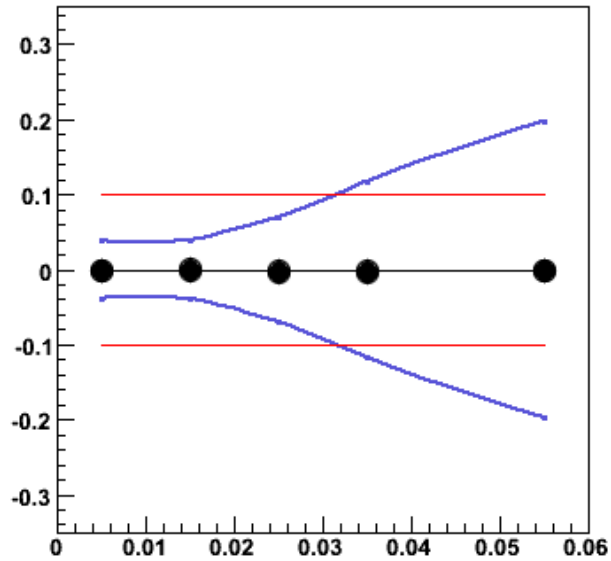
— *Rel. statistical uncertainties*

— *10% line*

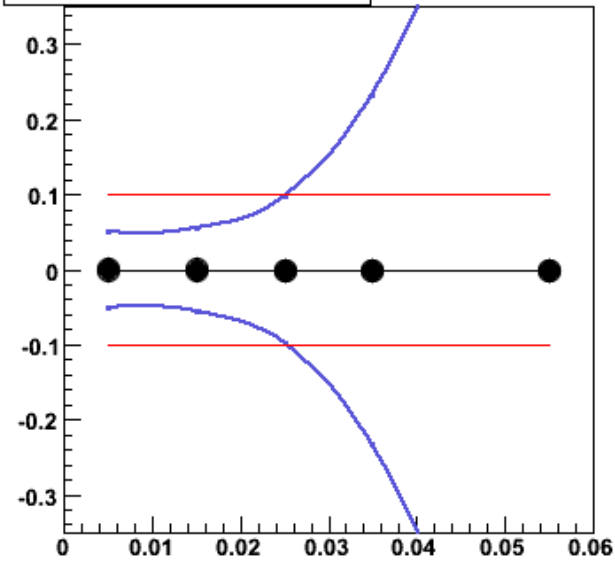
○ *variation up*

● *variation down*

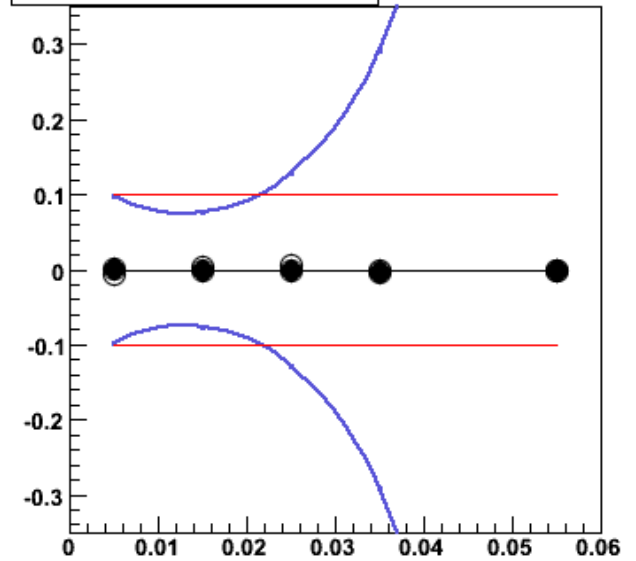
X_p^{obs} Z-Vertex



$X_p^{\text{obs}}, X_\gamma^{\text{meas}} > 0.8$ Z-Vertex



$X_p^{\text{obs}}, X_\gamma^{\text{meas}} < 0.7$ Z-Vertex



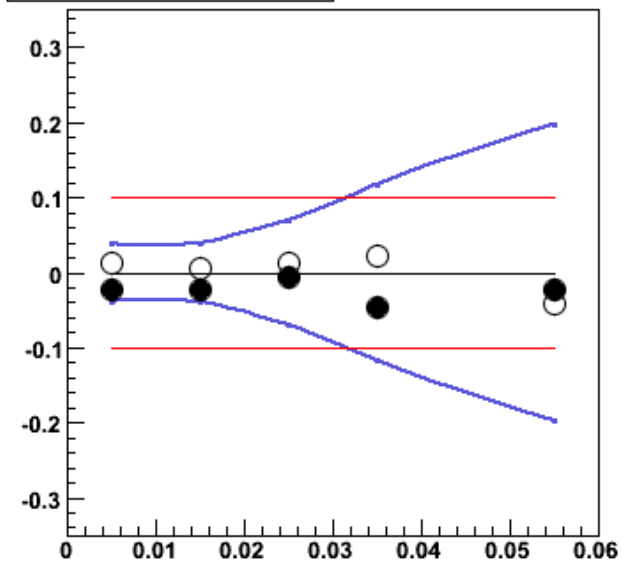
— Rel. statistical uncertainties δZ

— 10% line

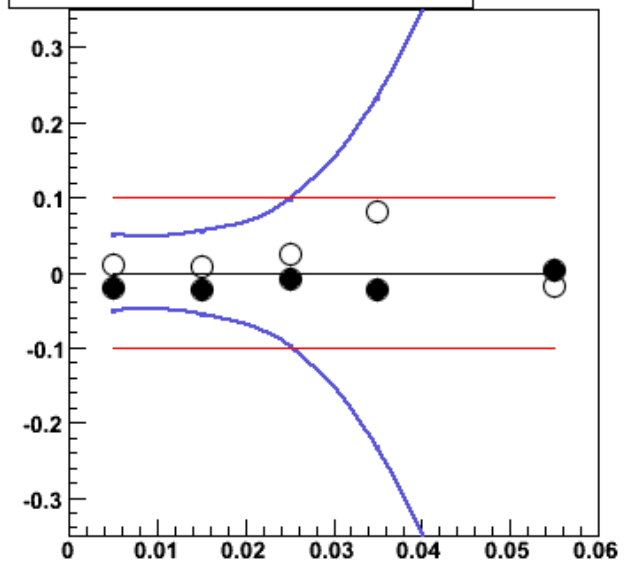
○ $|Z_{\text{vertex}}| < 45$

● $|Z_{\text{vertex}}| < 35$

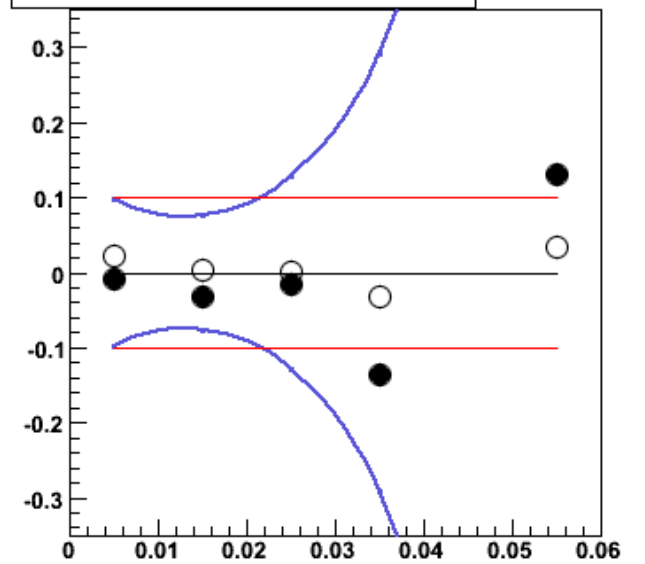
X_p^{obs} Track Magnitude



$X_p^{obs}, X_Y^{meas} > 0.8$ Track Magnitude



$X_p^{obs}, X_Y^{meas} < 0.7$ Track Magnitude



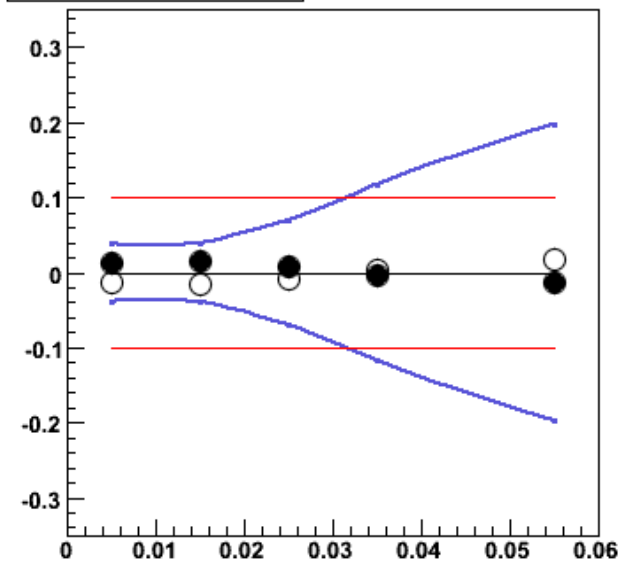
— *Rel.statistical uncertainties*

— *10% line*

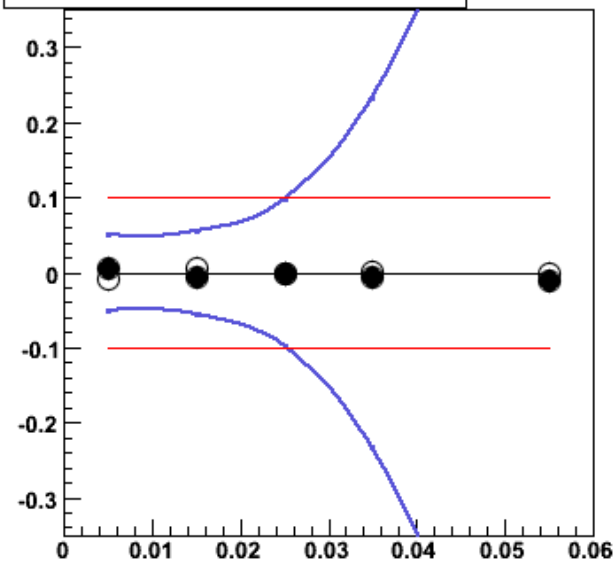
○ $p_{track} > 350$ MeV

● $p_{track} > 150$ MeV

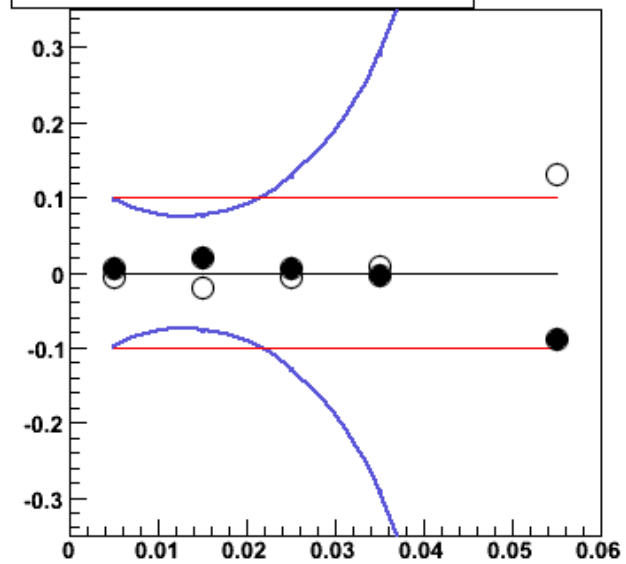
X_p^{obs} Fragmentation







$X_p^{obs}, X_\gamma^{meas} > 0.8$ Fragmentation

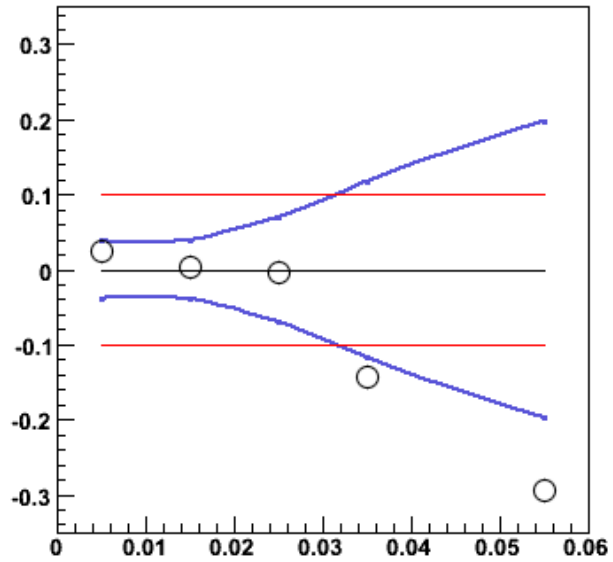


$X_p^{obs}, X_\gamma^{meas} < 0.7$ Fragmentation

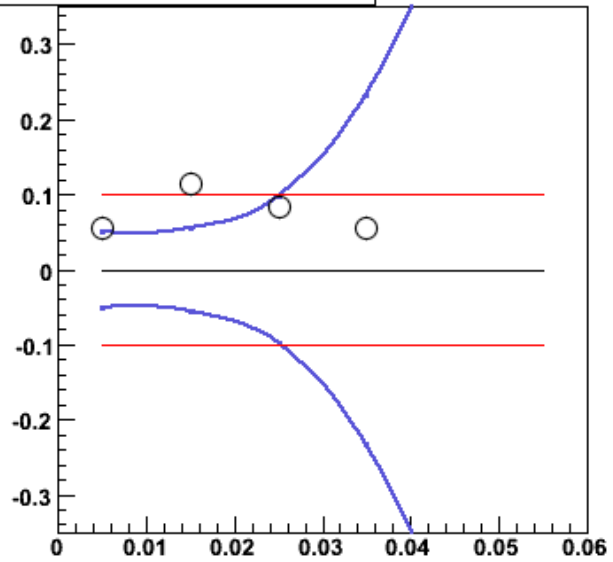


-  *Rel. statistical uncertainties*
-  *10% line*
-  *+5% Fragmentation*
-  *-5% Fragmentation*

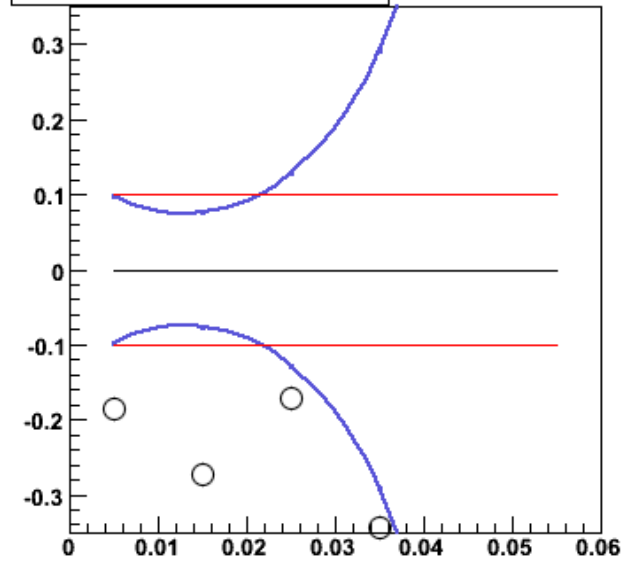
X_p^{obs} HERWIG



$X_p^{obs}, X_\gamma^{meas} > 0.8$ HERWIG



$X_p^{obs}, X_\gamma^{meas} < 0.7$ HERWIG

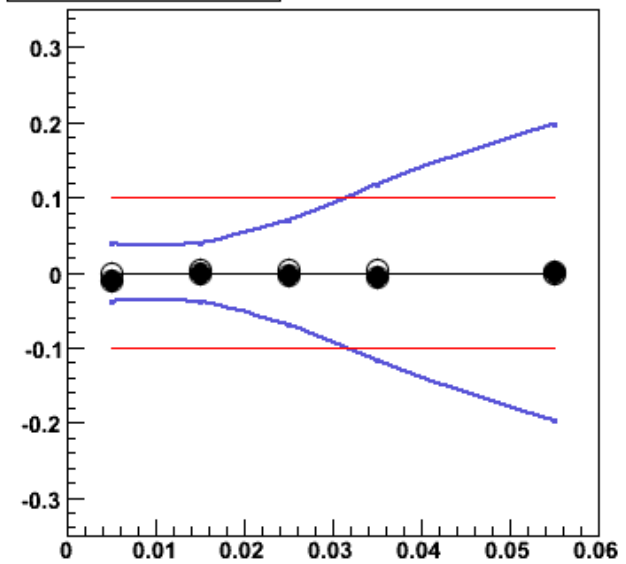


— *Rel. statistical uncertainties*

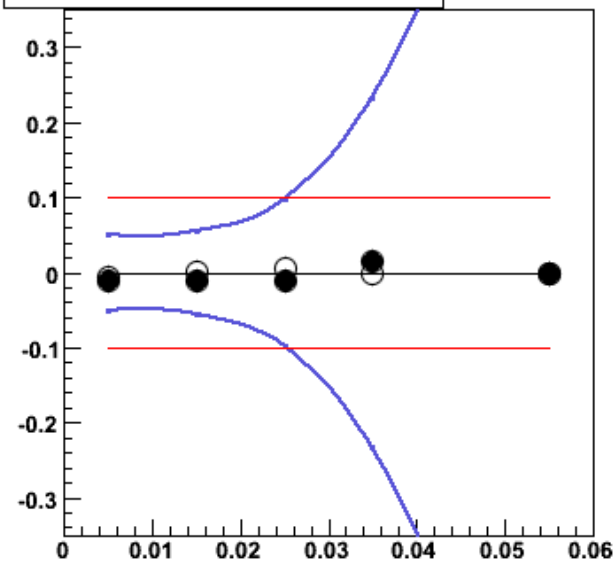
— *10% line*

○ *HERWIG*

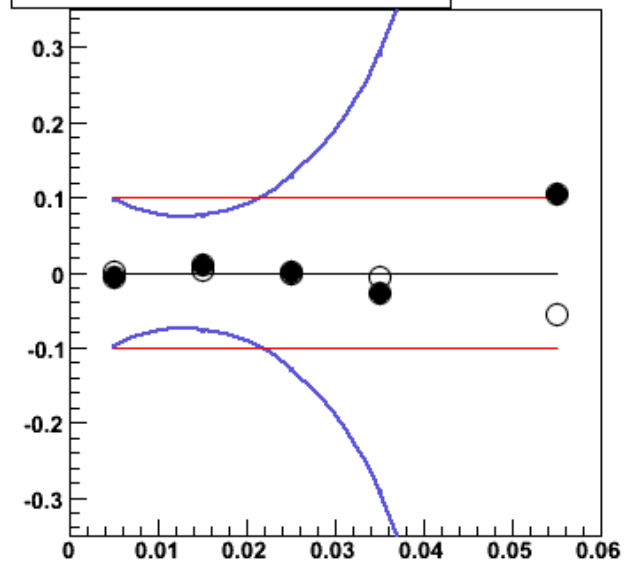
X_p^{obs} fraction EMC



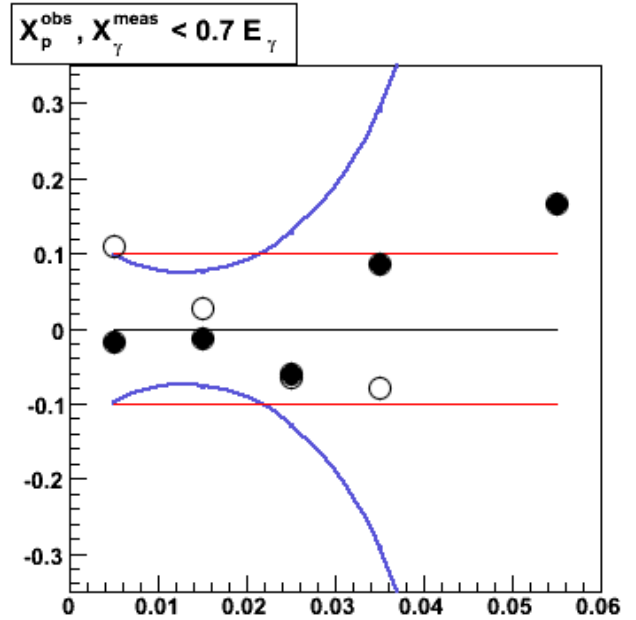
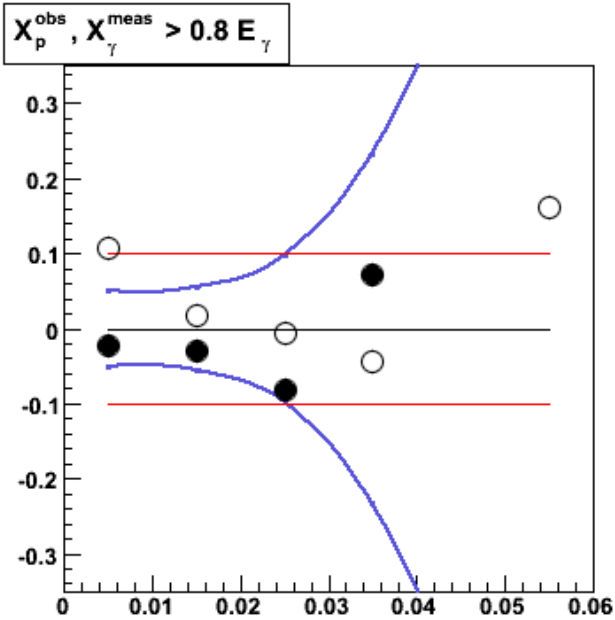
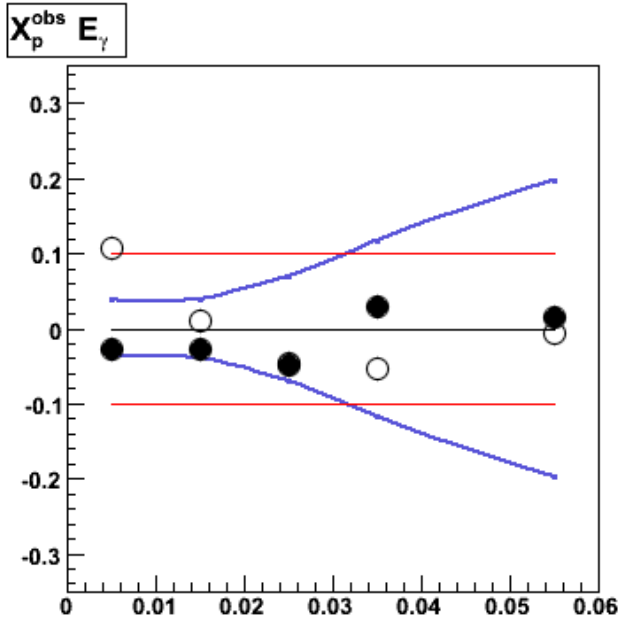
$X_p^{obs}, X_\gamma^{meas} > 0.8$ fraction EMC



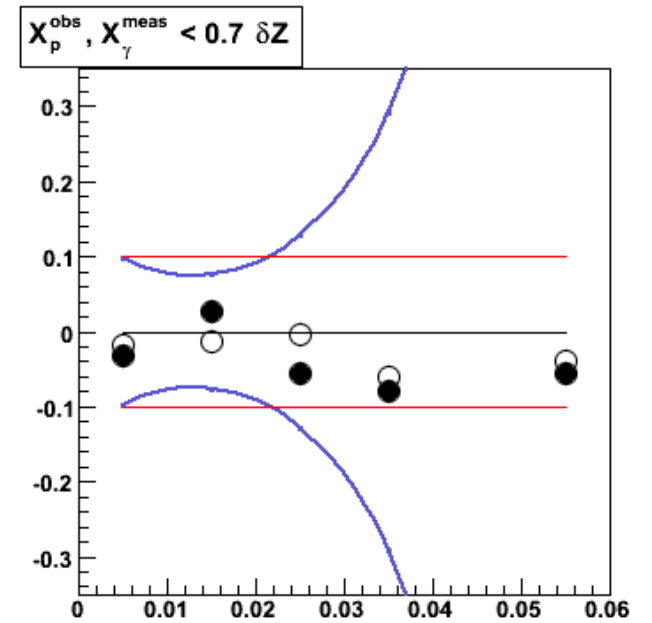
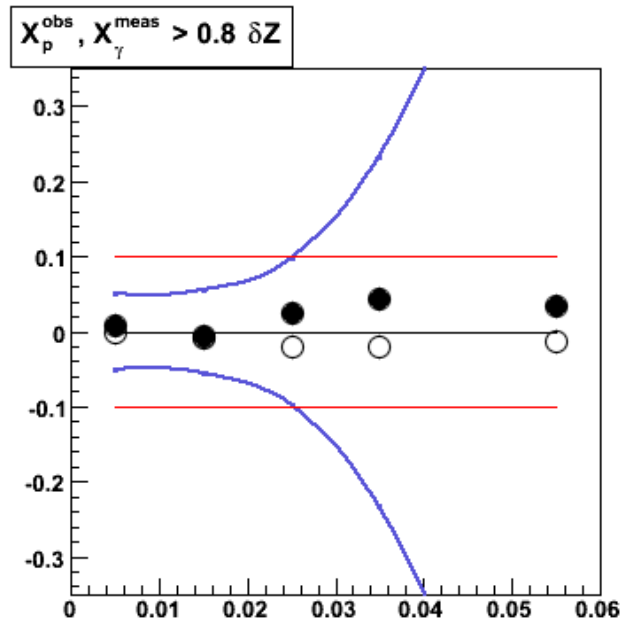
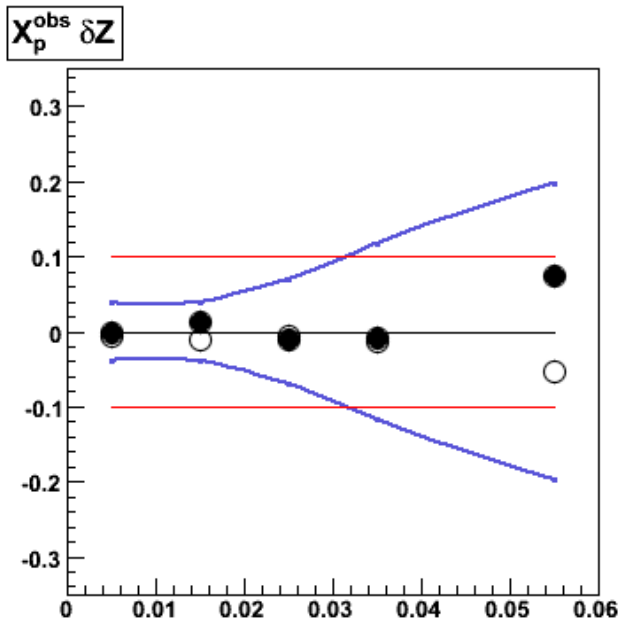
$X_p^{obs}, X_\gamma^{meas} < 0.7$ fraction EMC



- *Rel. statistical uncertainties*
- *10% line*
- *Fraction EMC +0.025*
- *Fraction EMC -0.025*



- *Rel. statistical uncertainties*
- *10% line*
- $E_\gamma + 2\%$
- $E_\gamma - 2\%$

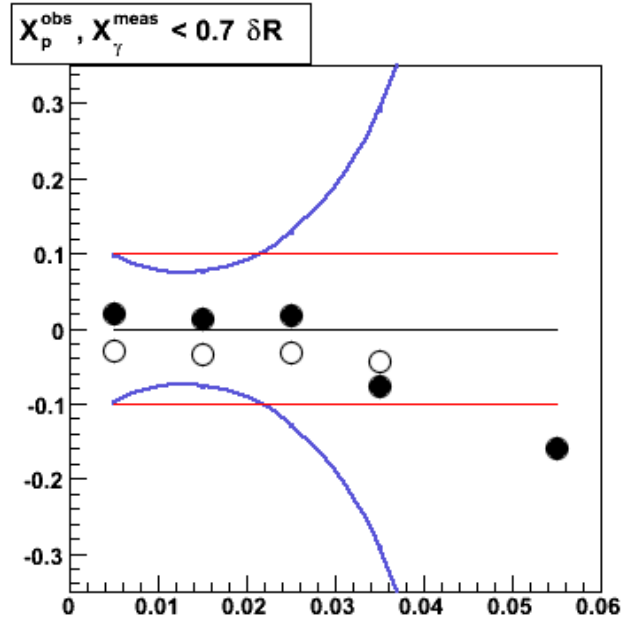
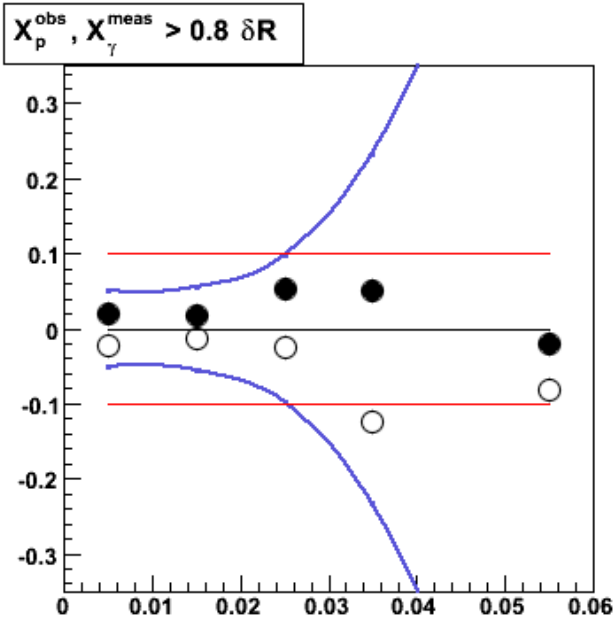
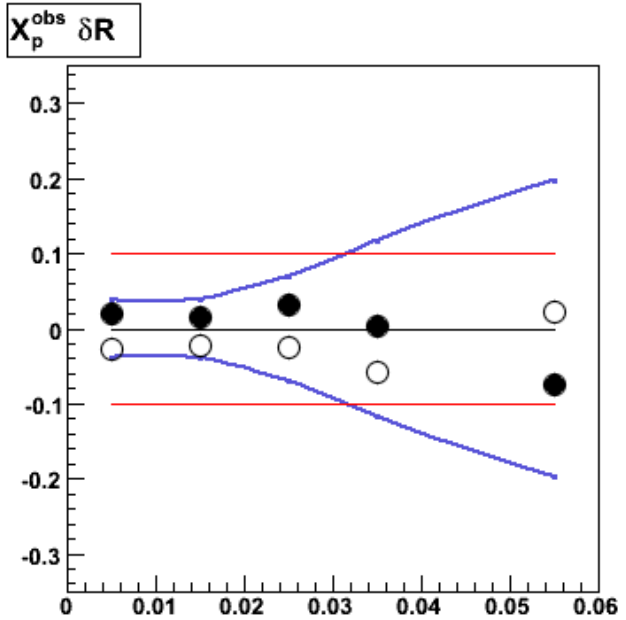


— Rel. statistical uncertainties δZ

— 10% line

○ δZ fit range 1.0

● δZ fit range 0.6



- *Rel. statistical uncertainties*
- *10% line*
- $\delta R 0.3$
- $\delta R 0.1$