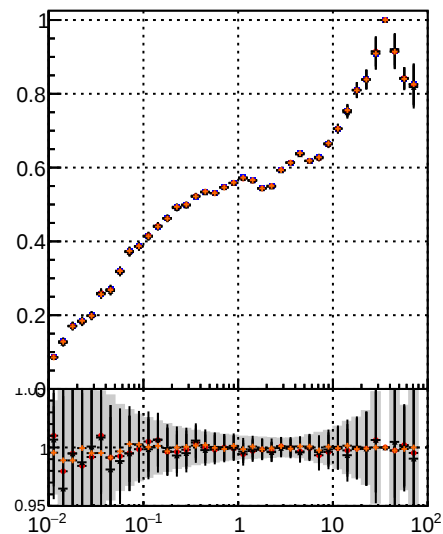
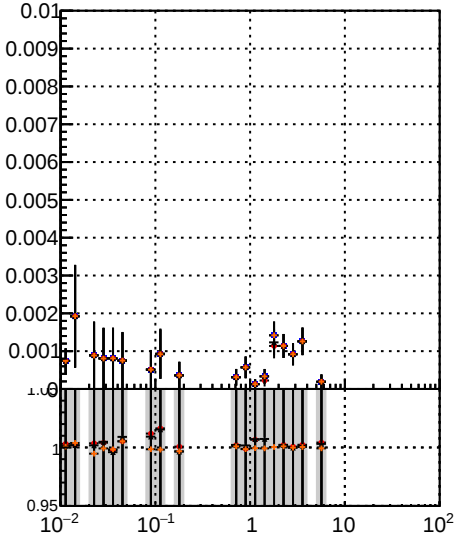


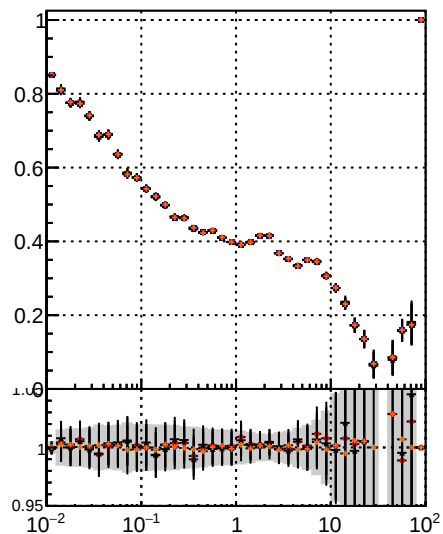
Fake rate vs vertpos



Duplicates Rate vs vertpos



Pileup rate vs vertpos



Fake rate vs v

— $\frac{d\sigma}{d\eta d\eta}$

— $\frac{d\sigma}{d\eta d\eta}$

— $\frac{d\sigma}{d\eta d\eta}$

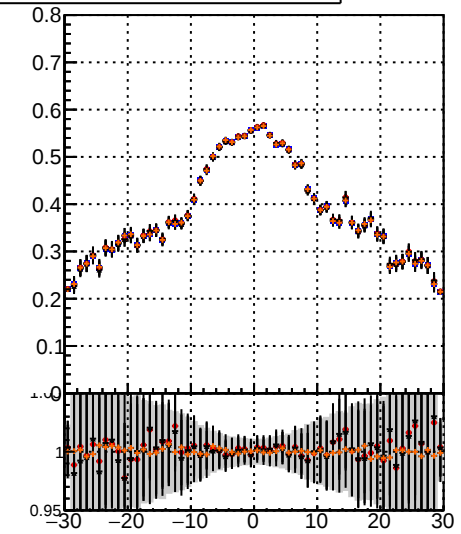
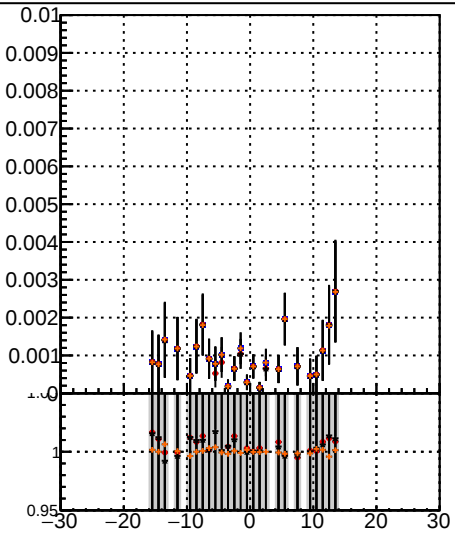
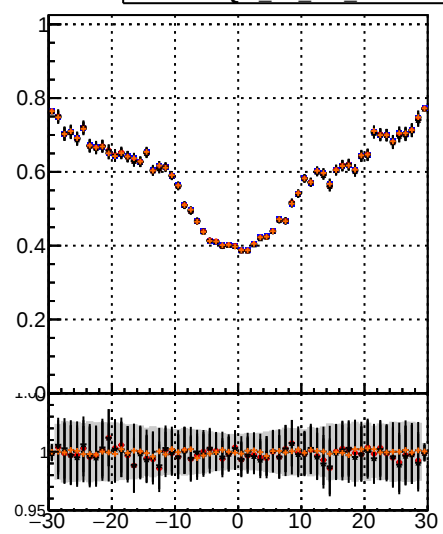
— $\frac{d\sigma}{d\eta d\eta}$

$\frac{d\sigma}{d\eta d\eta}$

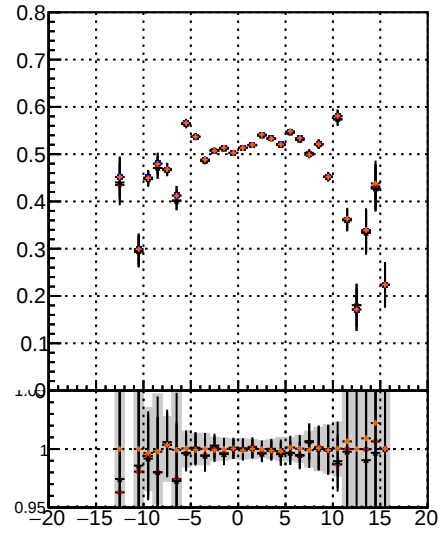
$\frac{d\sigma}{d\eta d\eta}$

$\frac{d\sigma}{d\eta d\eta}$

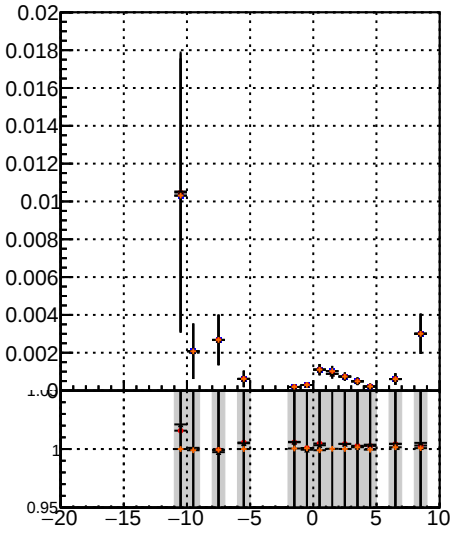
$\frac{d\sigma}{d\eta d\eta}$



Fake rate vs. sim PV z



Duplicates Rate vs sim PV z



Pileup rate vs. sim PV z

