

KaonLT Cross Section Breakdown

Richard L. Trotta

Used for all Q^2

$$\sigma_L = (p_1 \cdot f_t) \cdot e^{-p_2|t|} \omega(W)$$

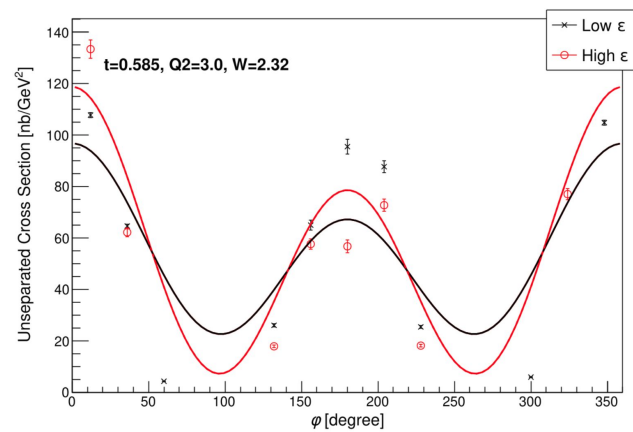
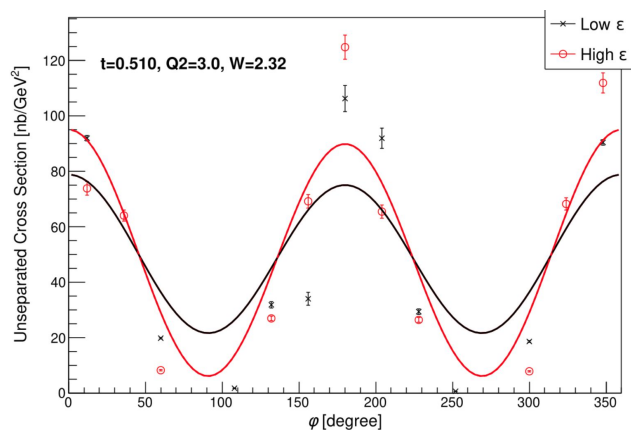
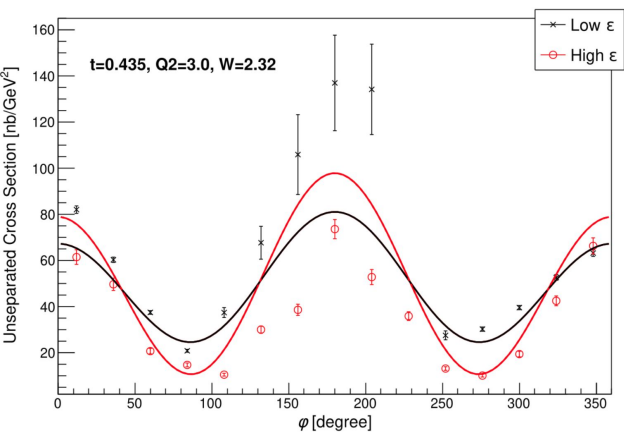
$$\sigma_T = \frac{p_5}{|t|^{p_6}} \omega(W)$$

$$\sigma_{LT} = p_9 \cdot e^{-p_{10}|t|} \sin \theta \omega(W)$$

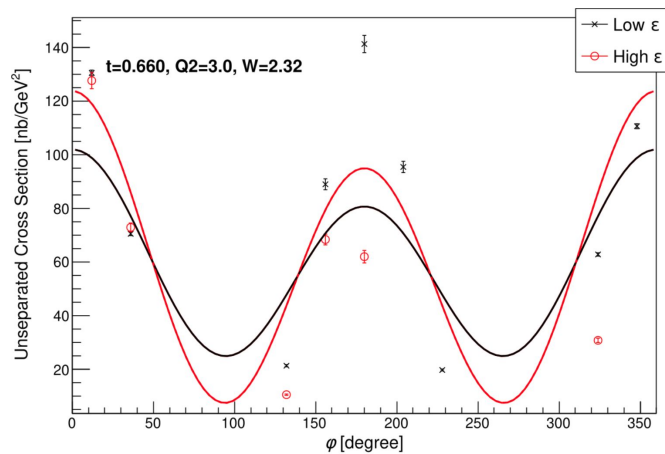
$$\sigma_{TT} = \frac{p_{13}}{|t|^{p_{14}}} \sin^2 \theta \omega(W)$$

$$\omega(W) = \frac{1}{(W^2 - M^2)^{0.85 \cdot W_c^2 - 5.97 \cdot W_c + 12.68}}$$

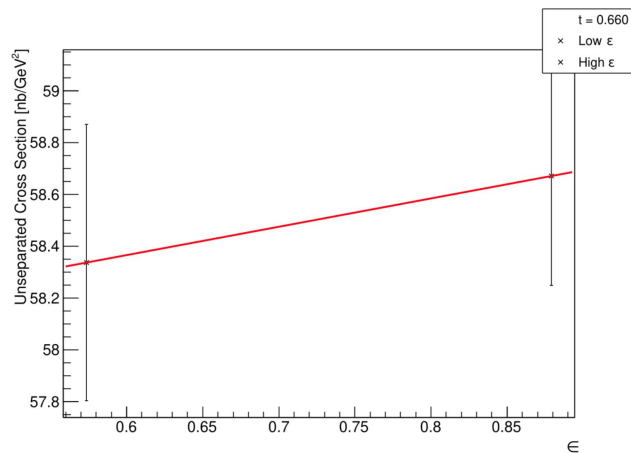
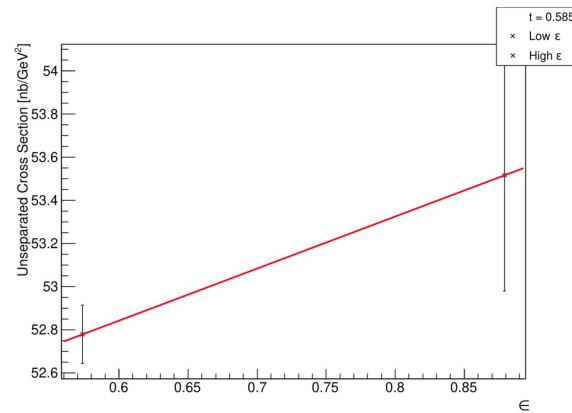
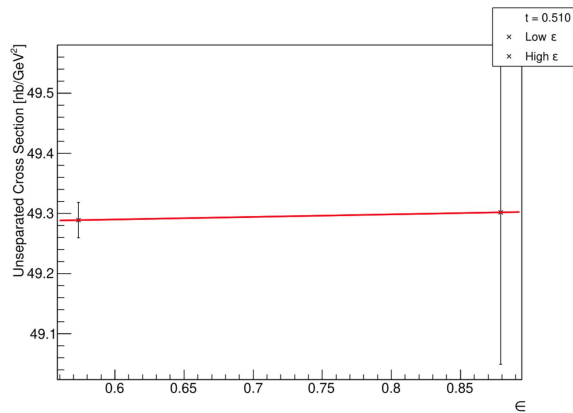
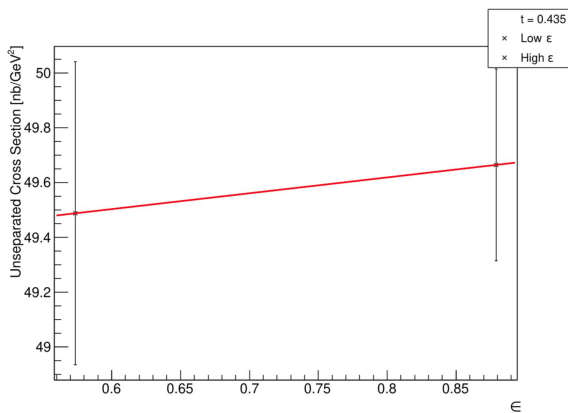
$$Q^2=3.0, W=2.32$$



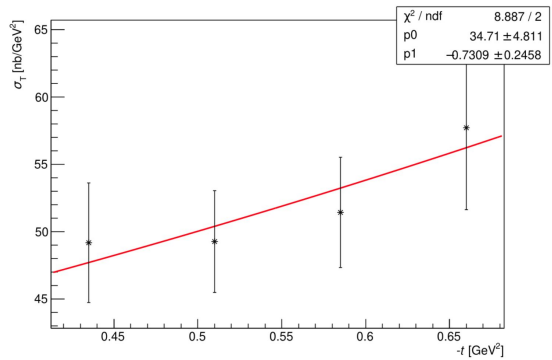
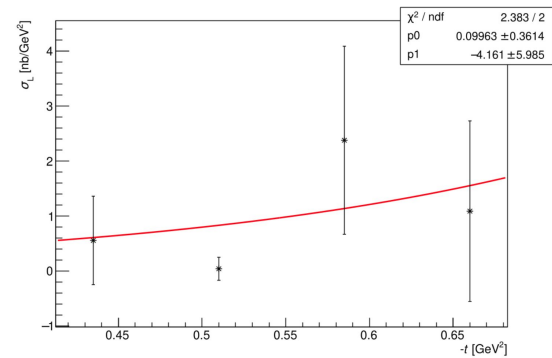
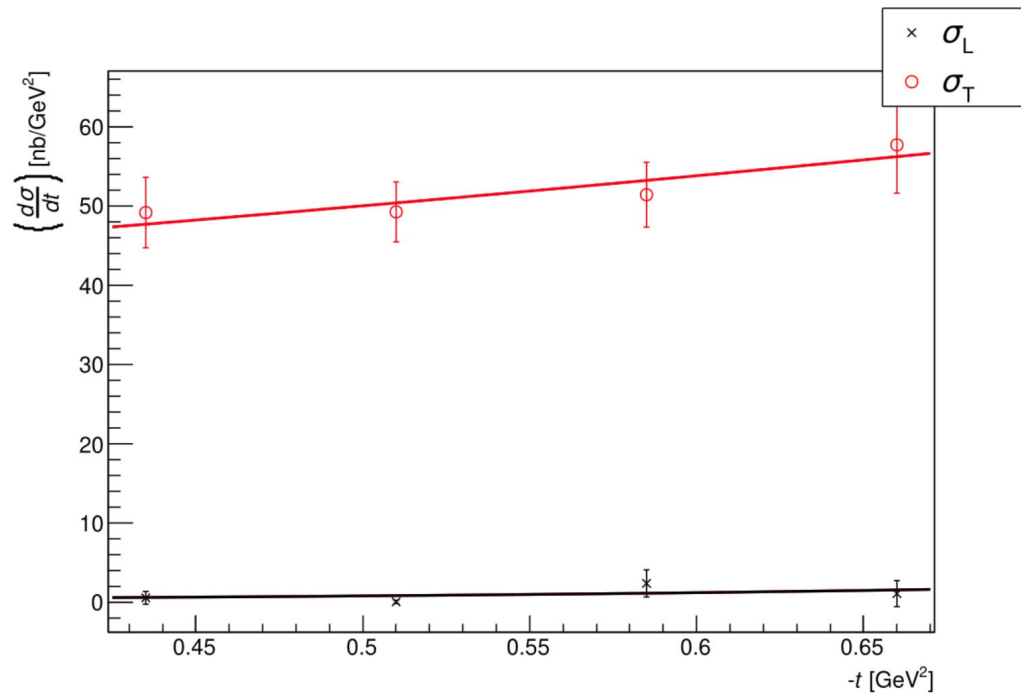
10 iterations



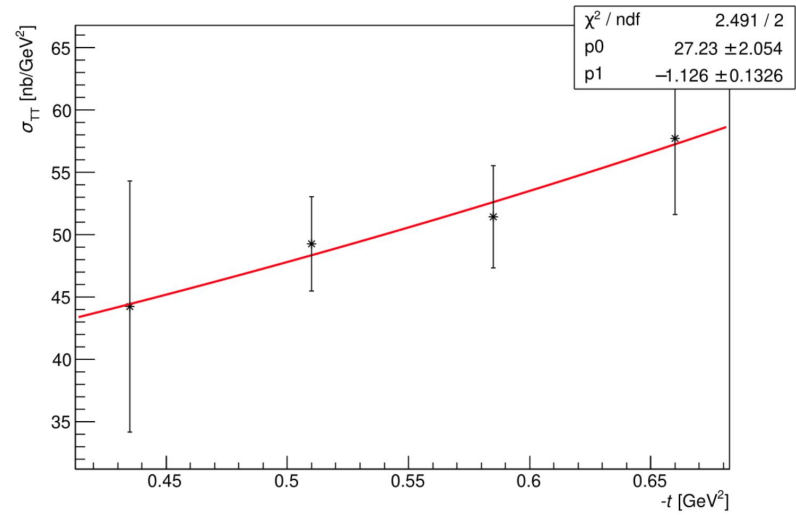
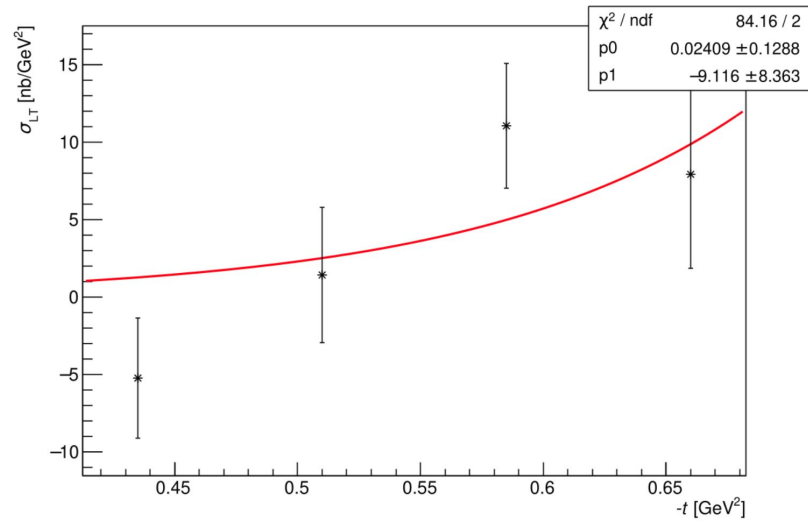
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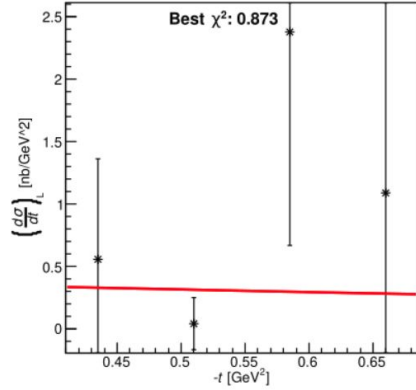


$$Q^2=3.0, W=2.32$$

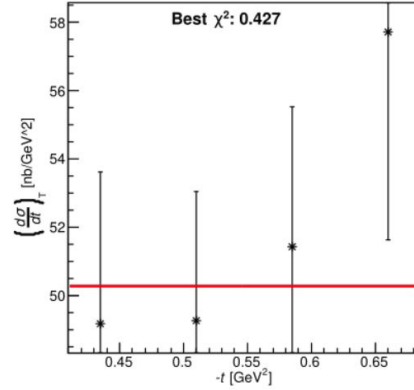


$$Q^2=3.0, W=2.32$$

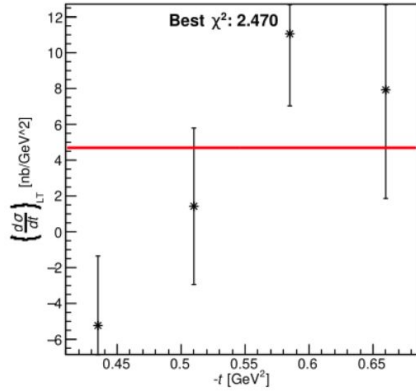
Sigma L Model Fit



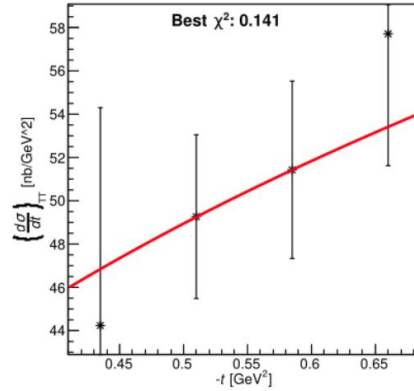
Sigma T Model Fit



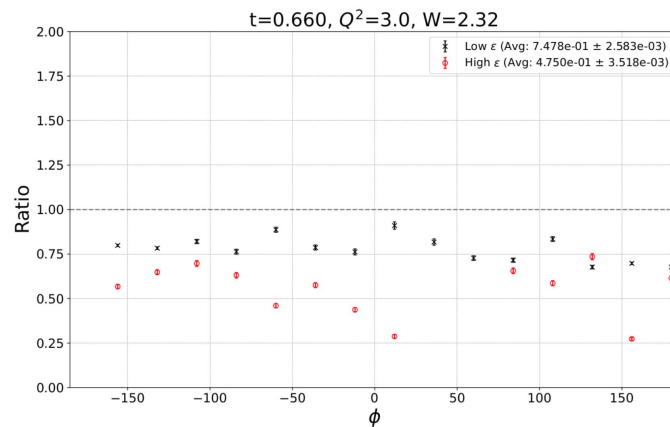
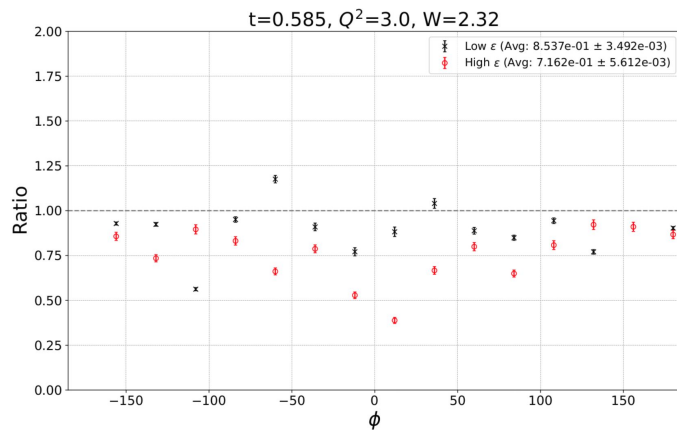
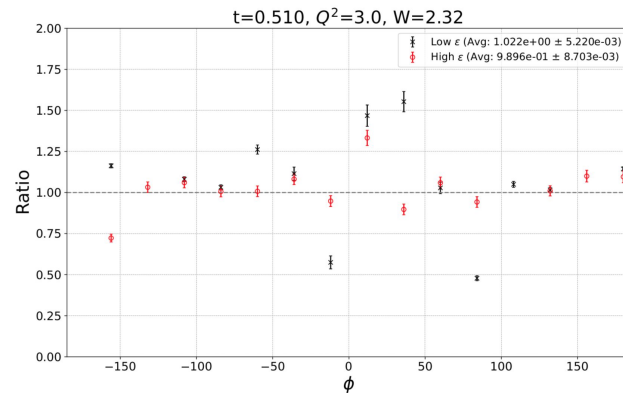
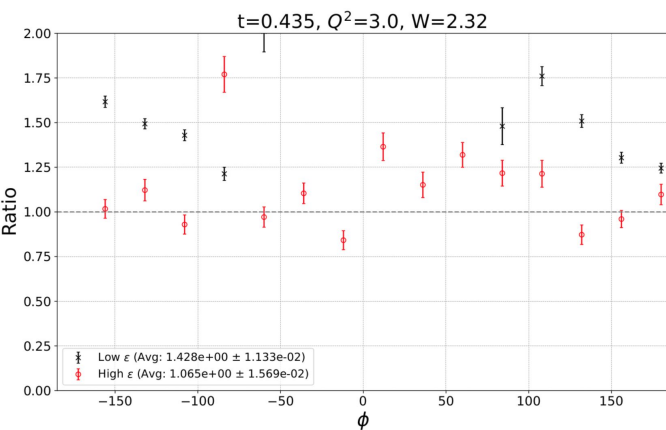
Sigma LT Model Fit



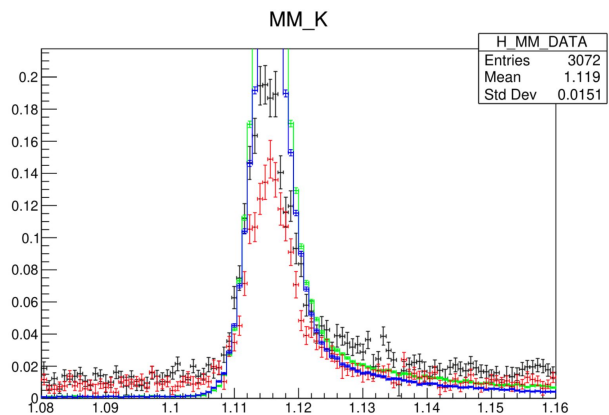
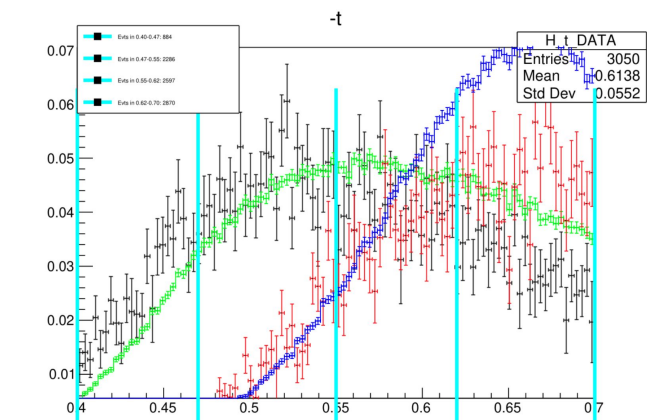
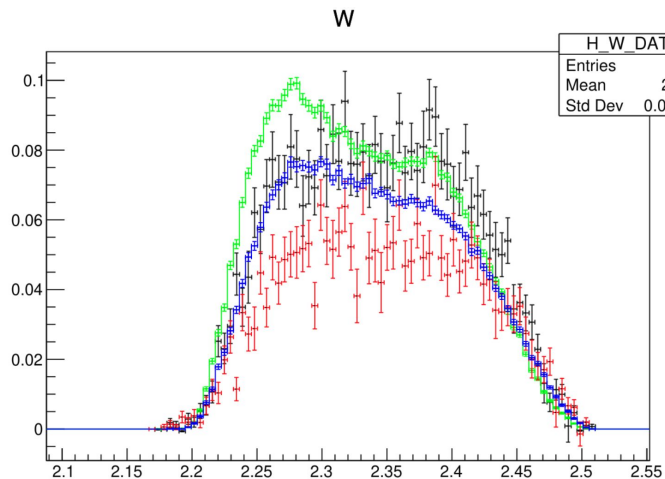
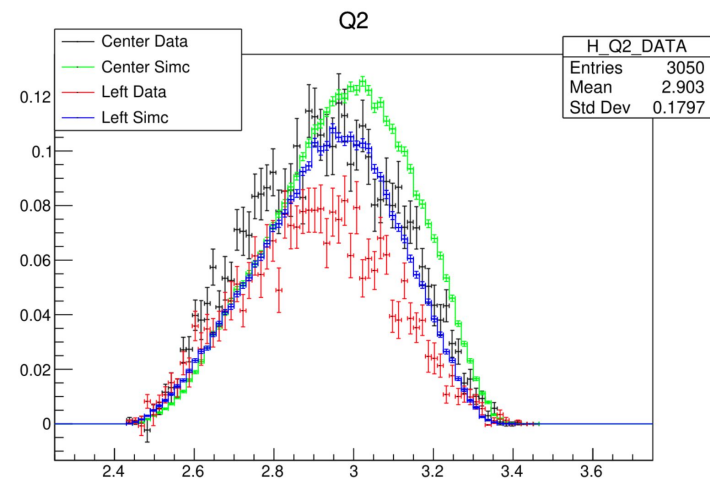
Sigma TT Model Fit



$Q^2=3.0, W=2.32$

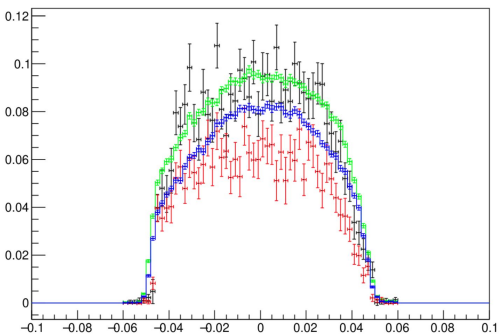


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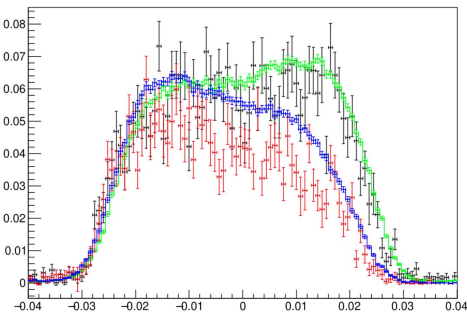


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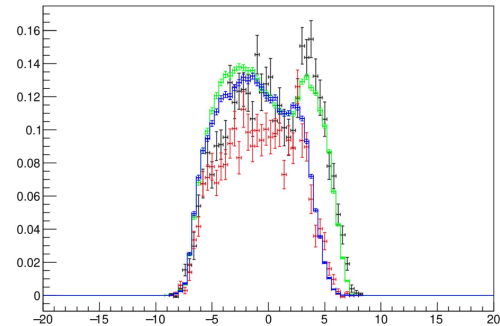
SHMS xptar



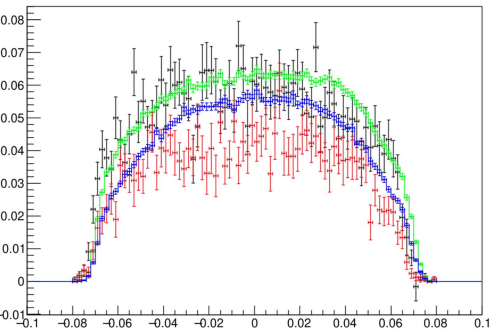
SHMS yptar



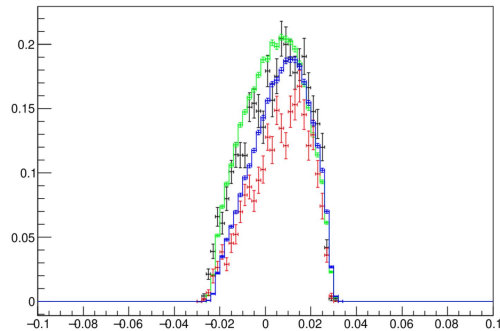
SHMS delta



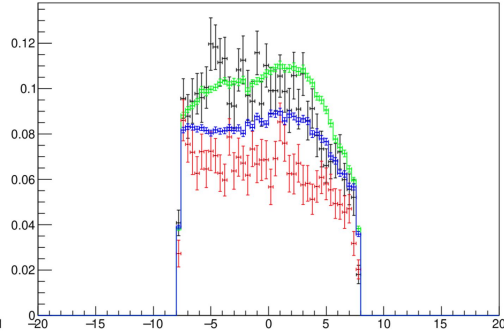
HMS xptar



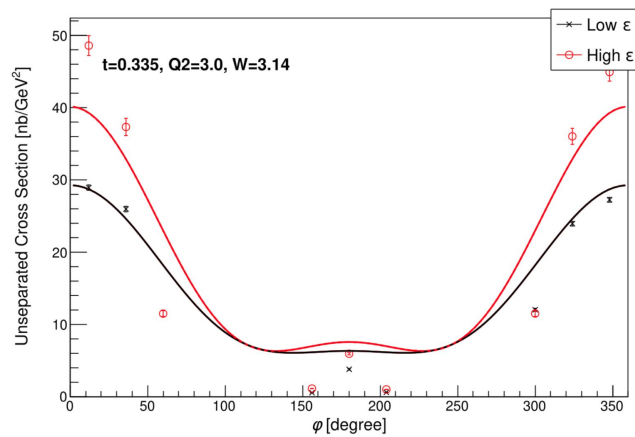
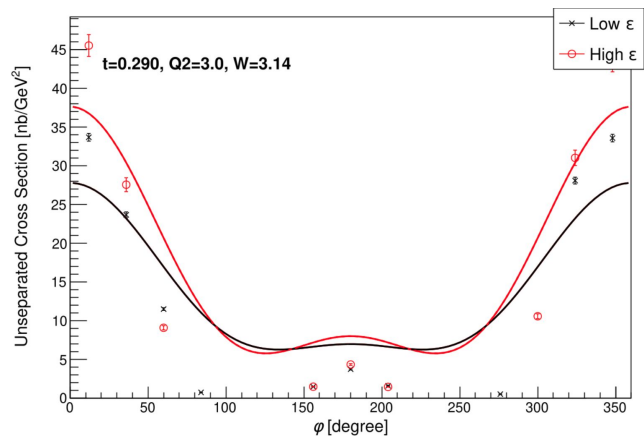
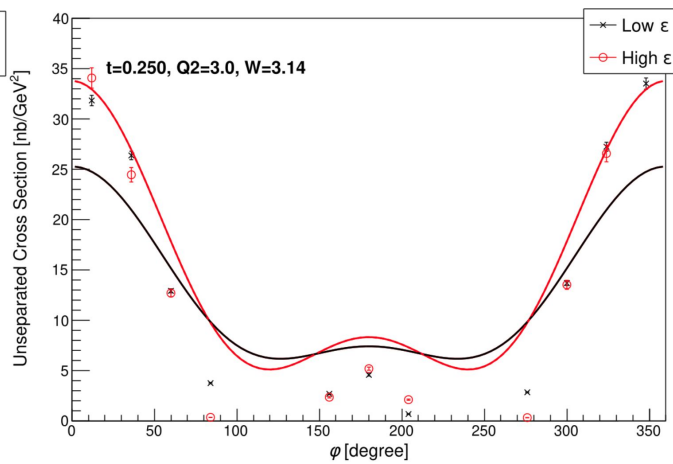
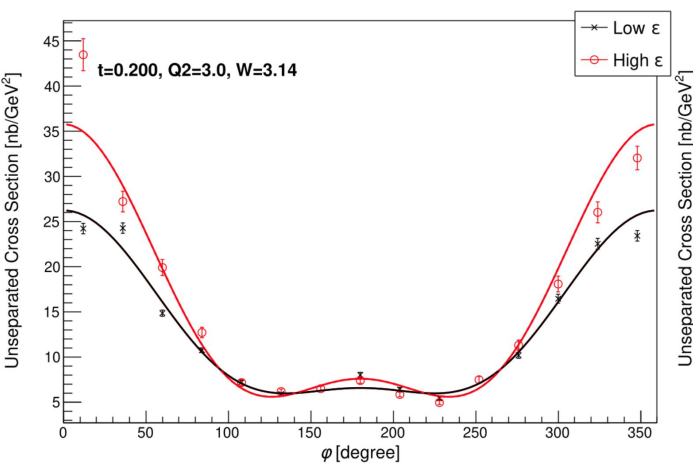
HMS yptar



HMS Delta

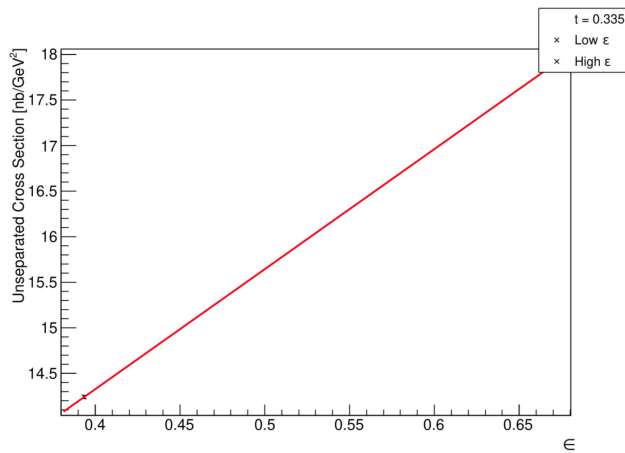
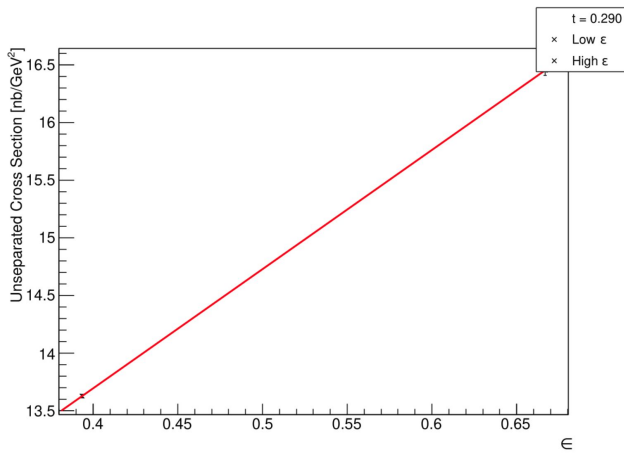
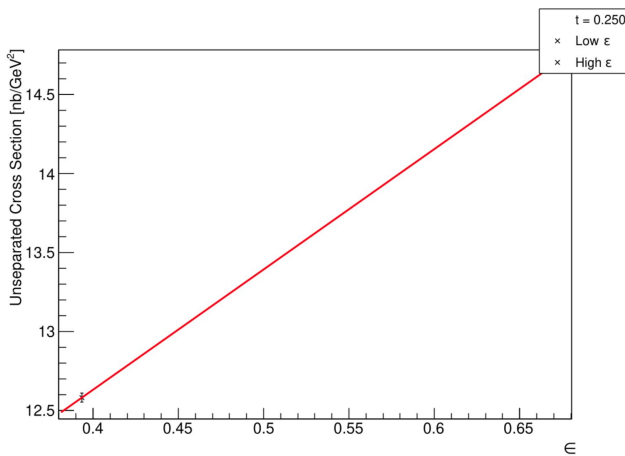
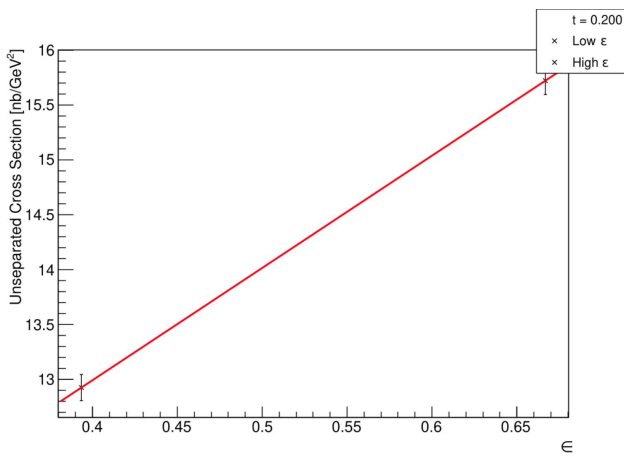


$$Q^2=3.0, W=3.14$$

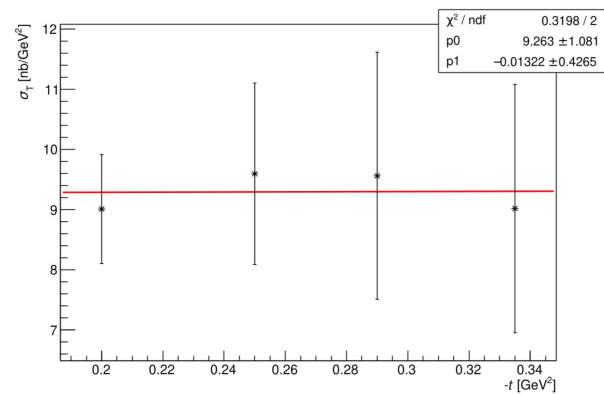
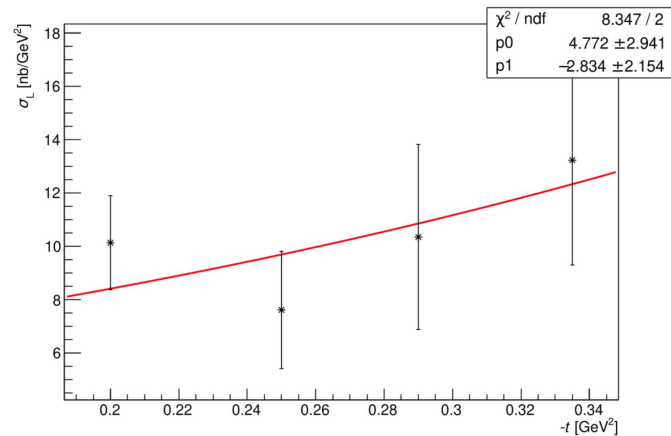
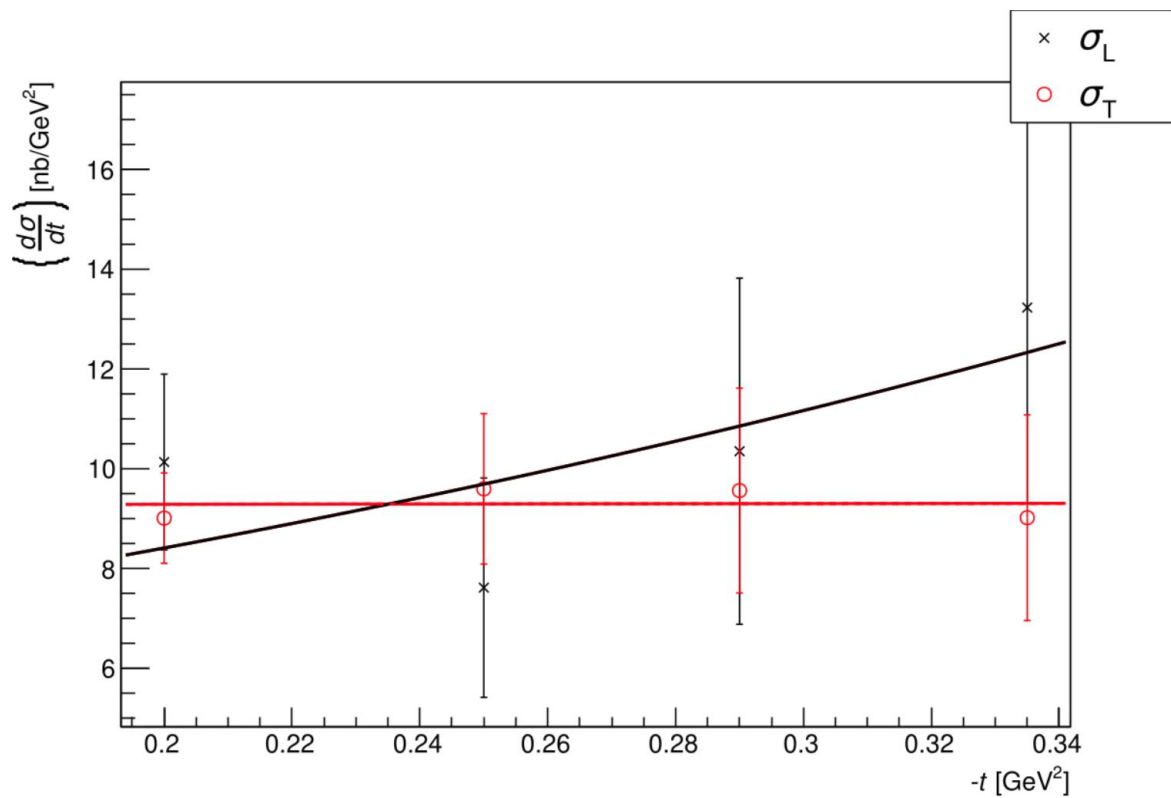


10 iterations

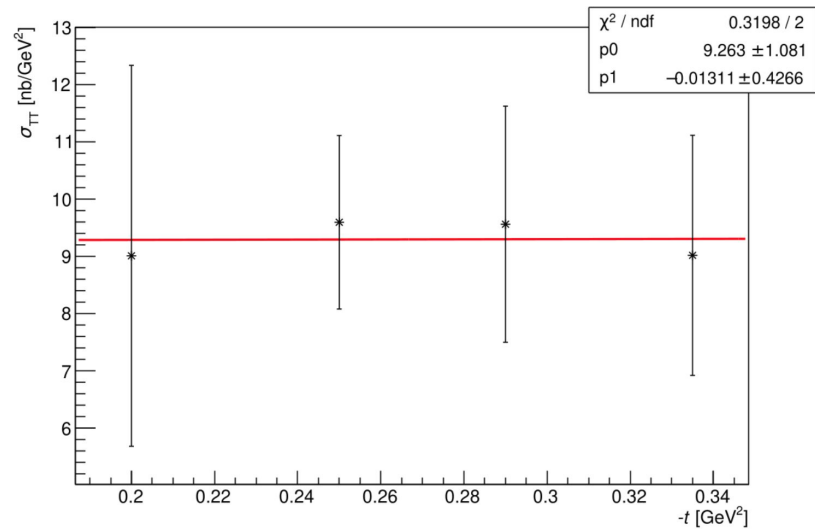
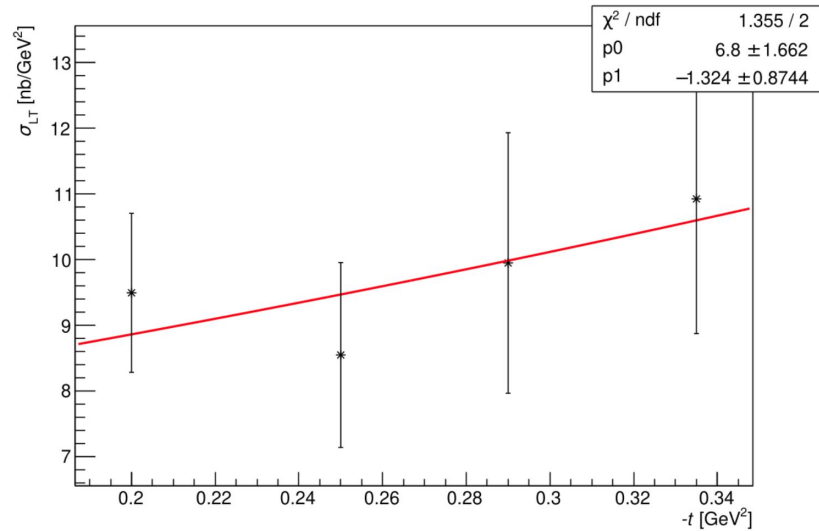
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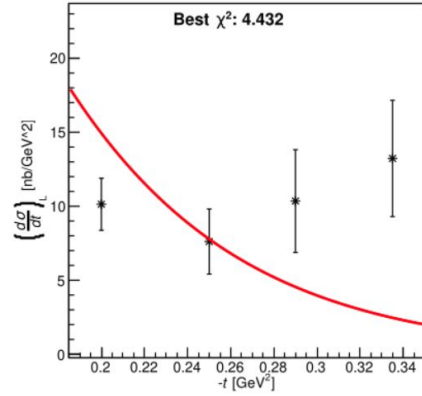


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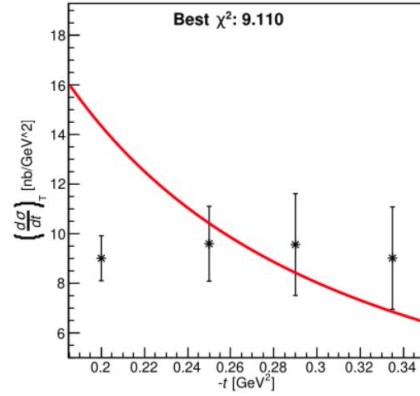


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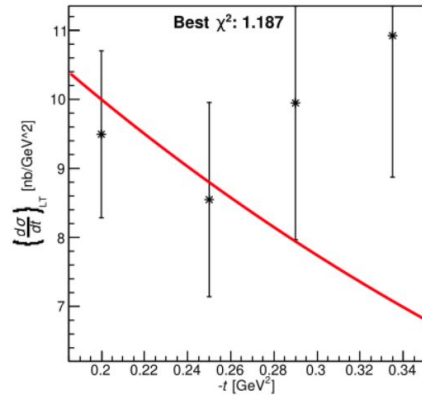
Sigma L Model Fit



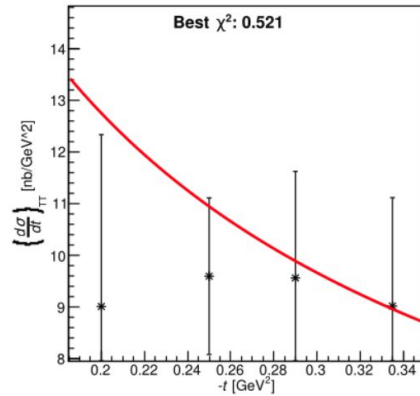
Sigma T Model Fit



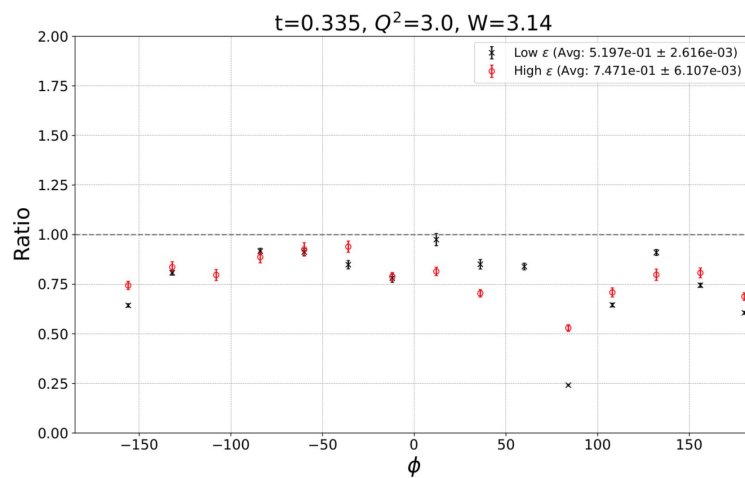
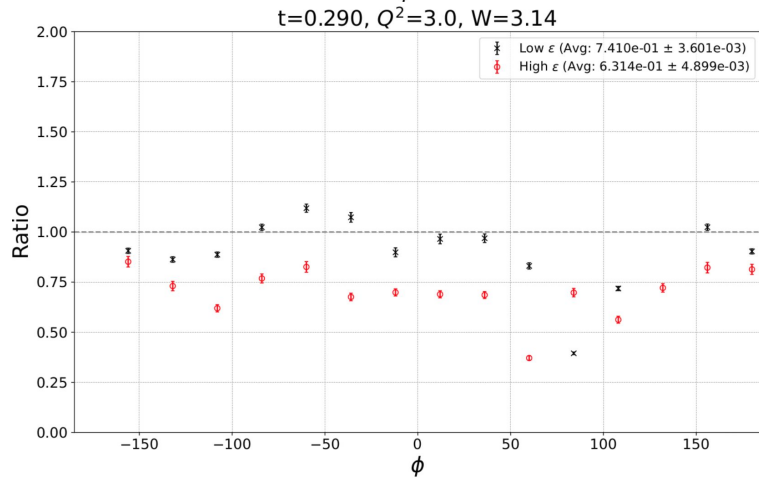
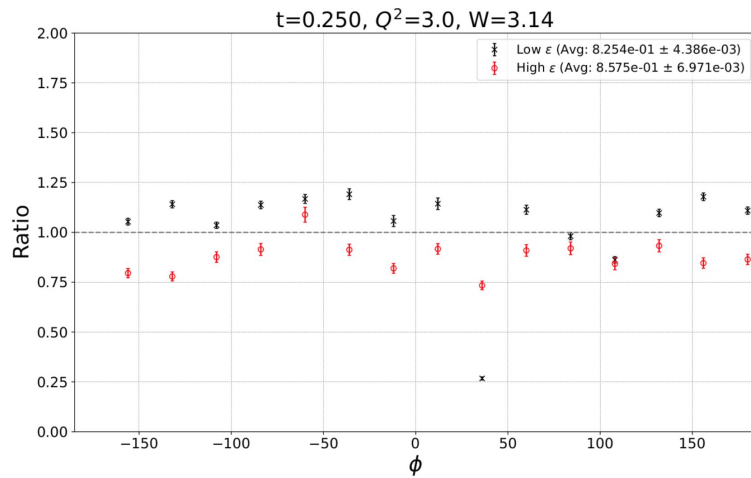
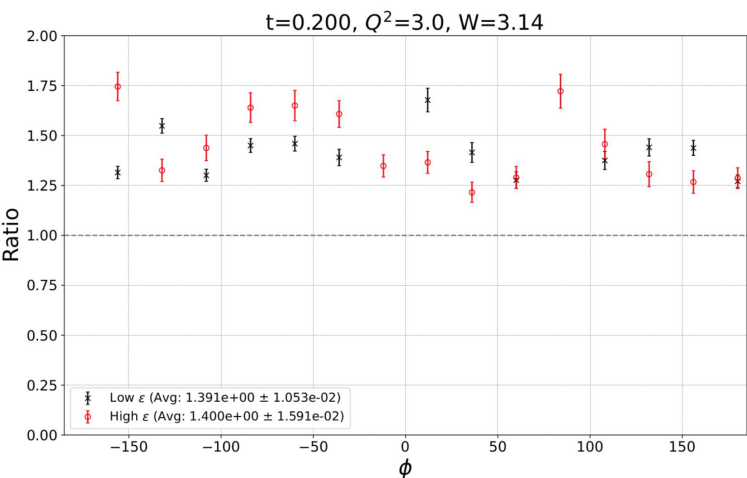
Sigma LT Model Fit



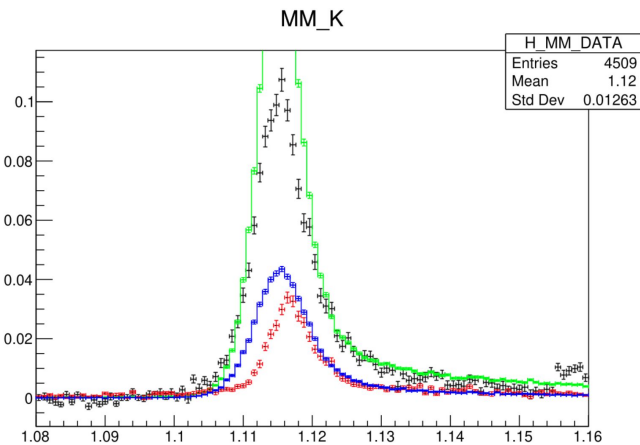
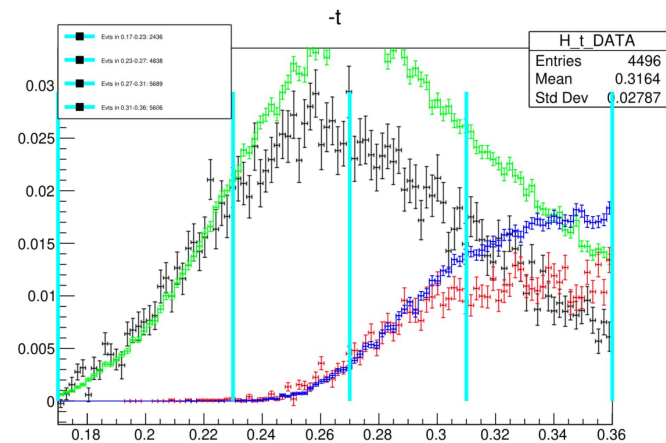
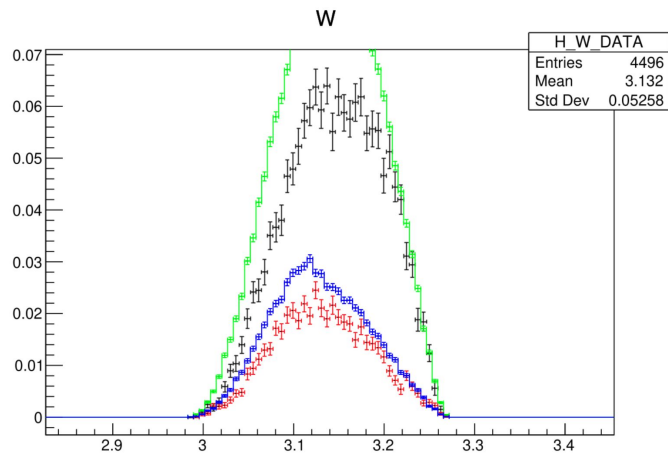
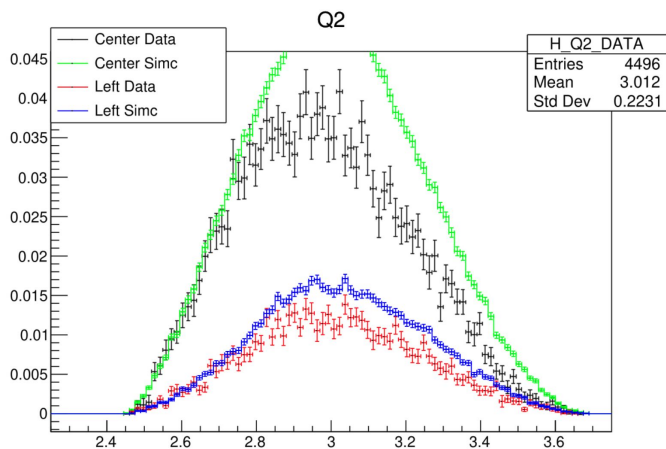
Sigma TT Model Fit



$Q^2=3.0, W=3.14$

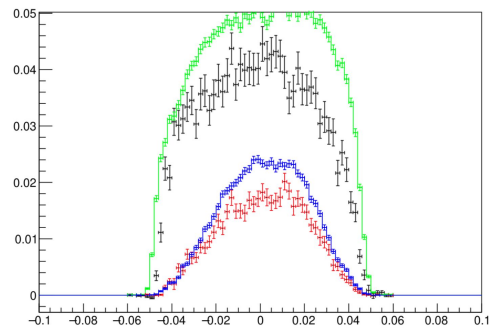


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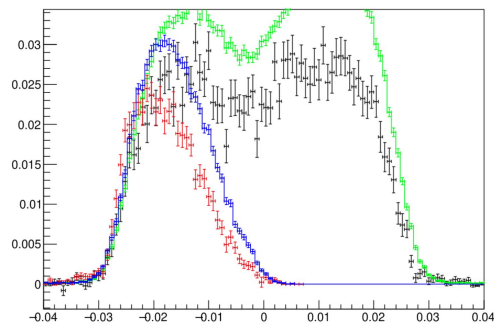


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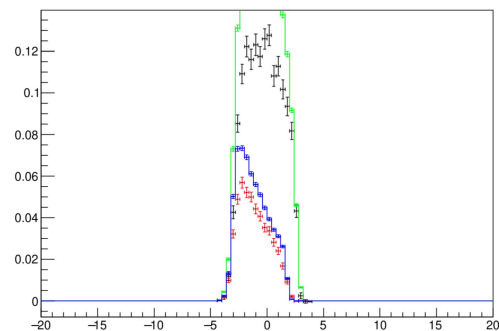
SHMS xptar



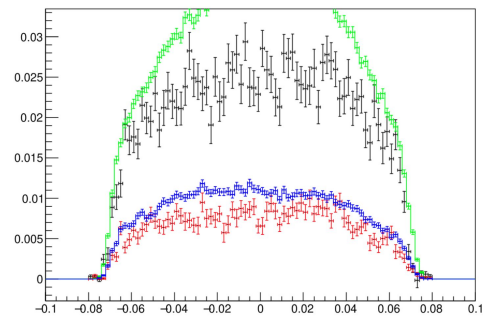
SHMS yptar



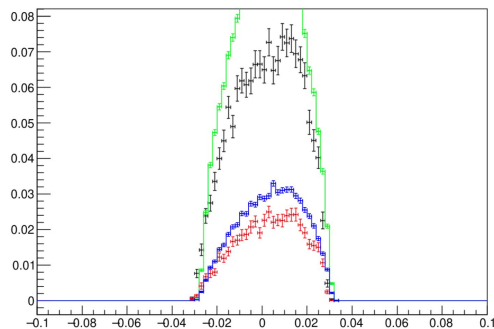
SHMS delta



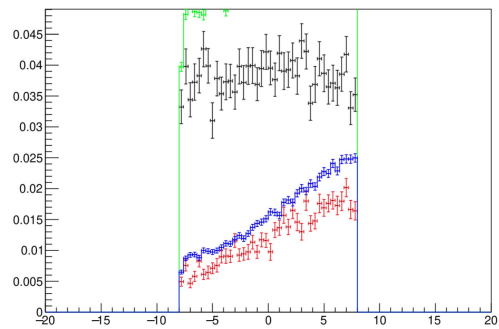
HMS xptar



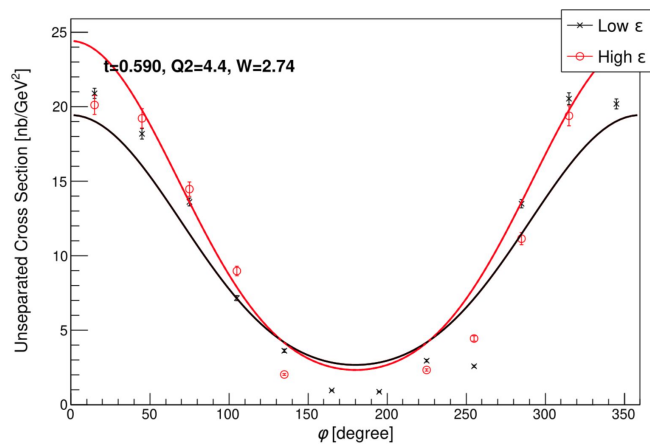
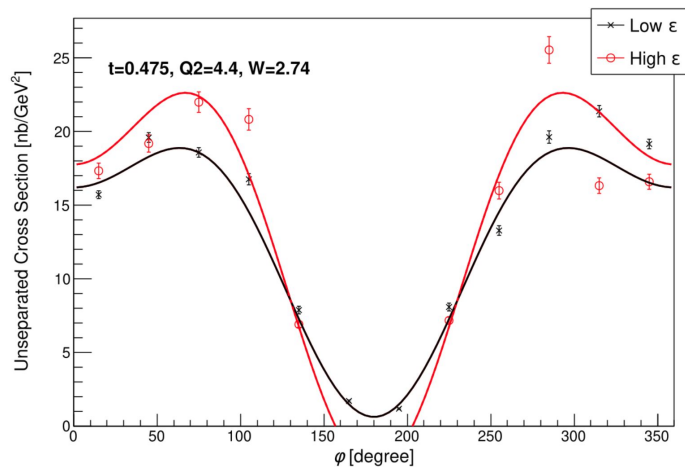
HMS yptar



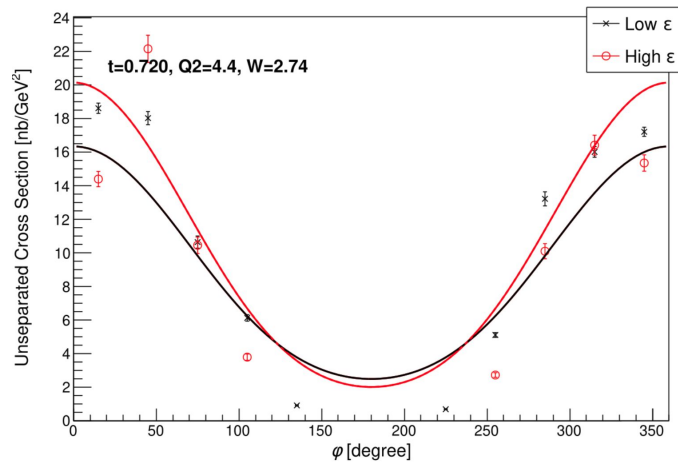
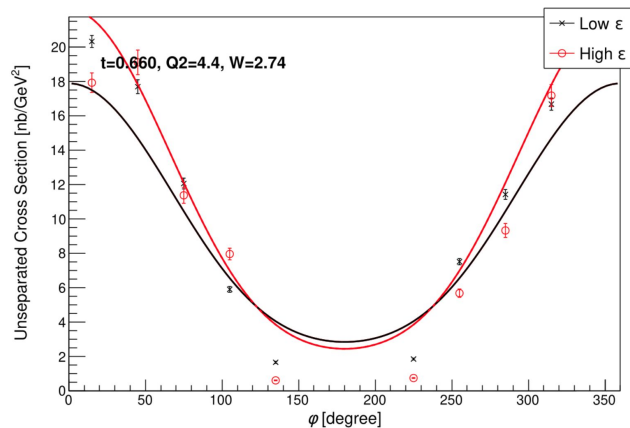
HMS Delta



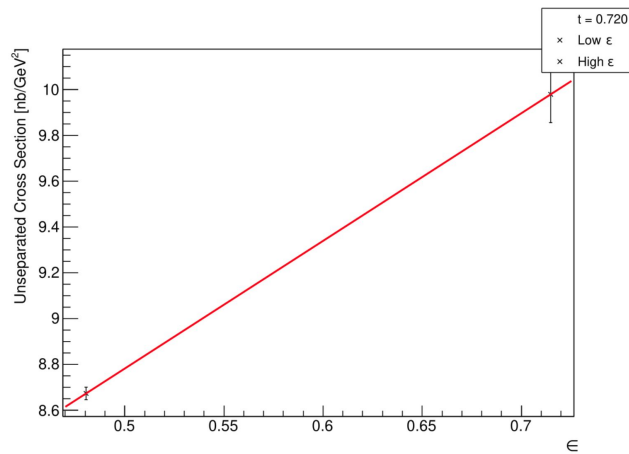
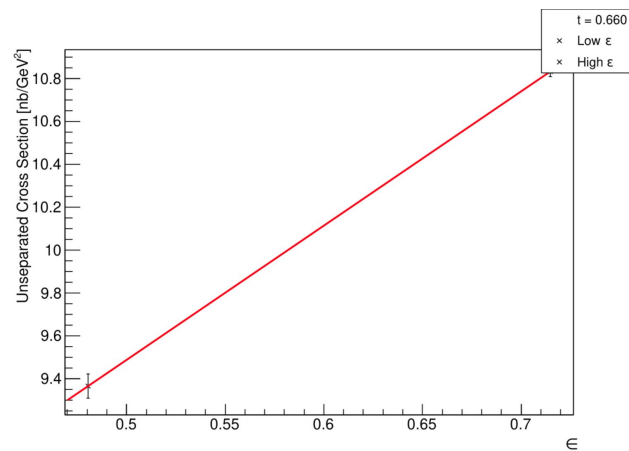
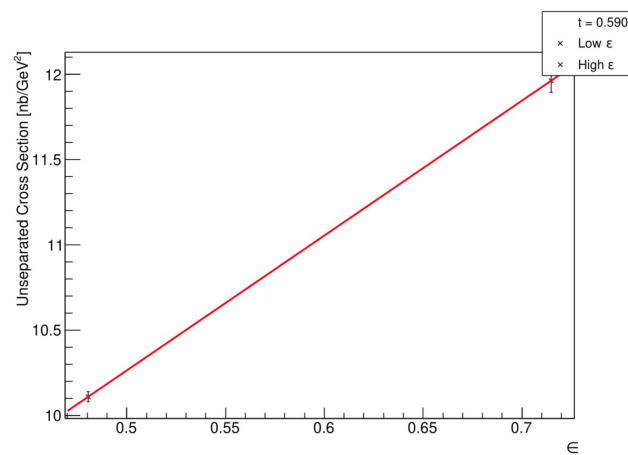
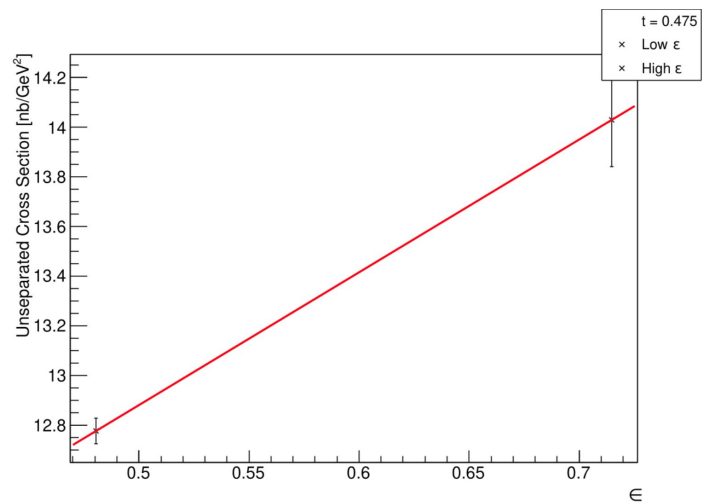
$$Q^2=4.4, W=2.74$$



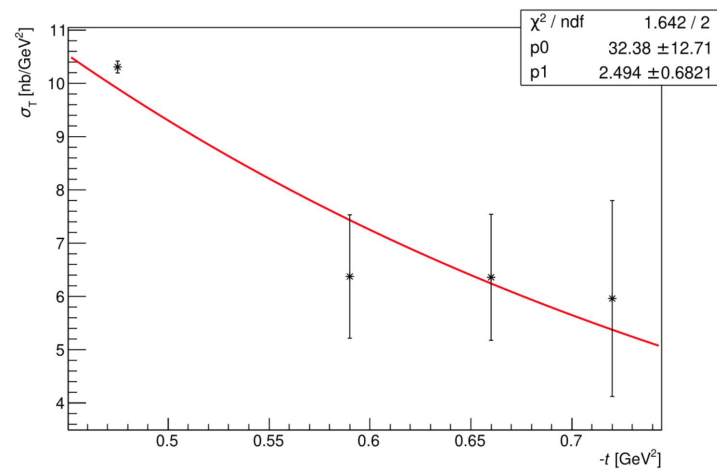
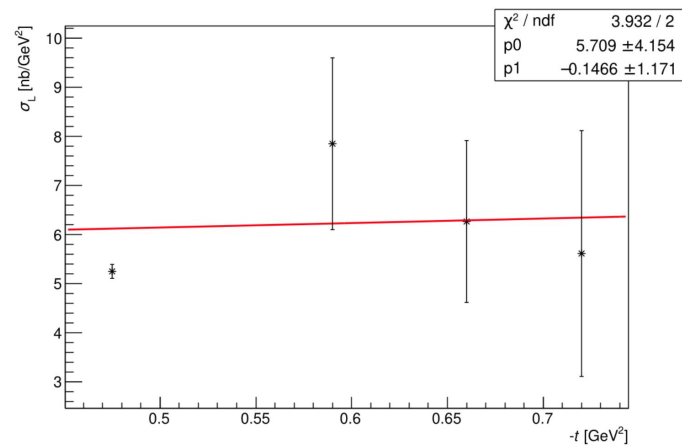
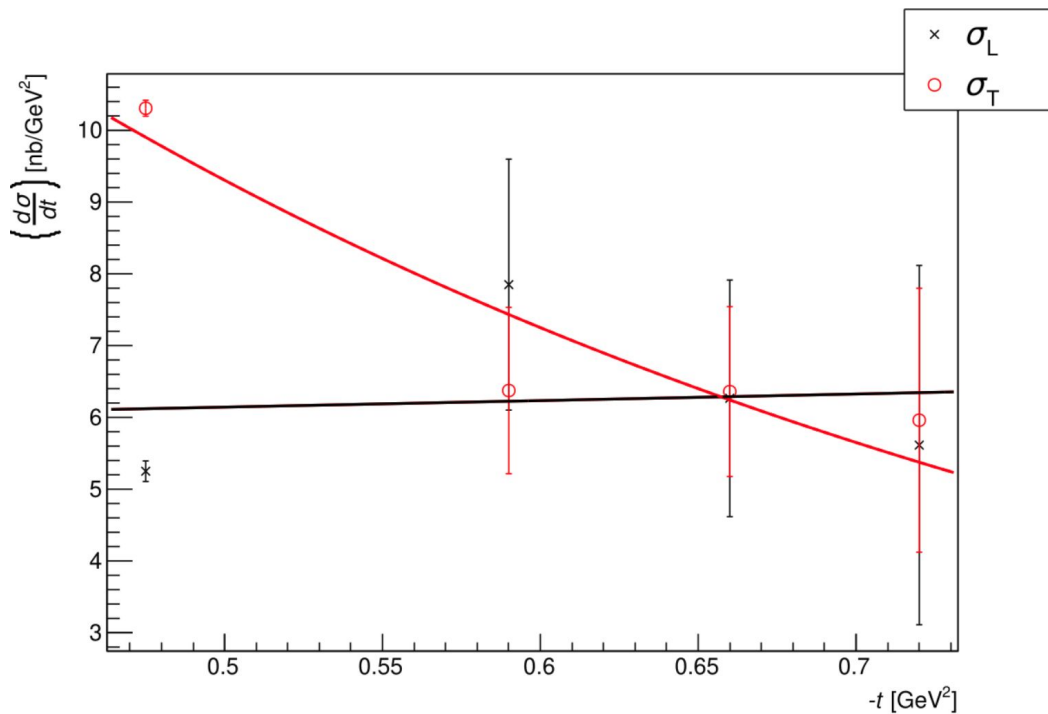
10 iterations



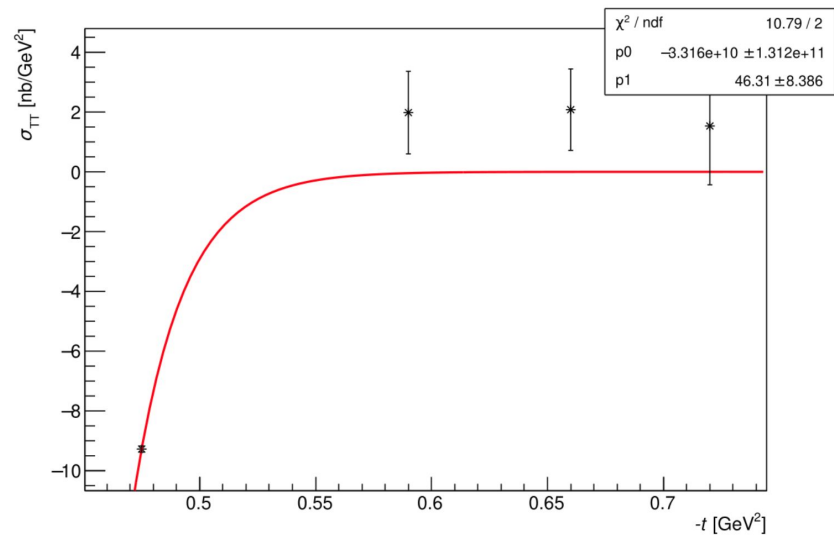
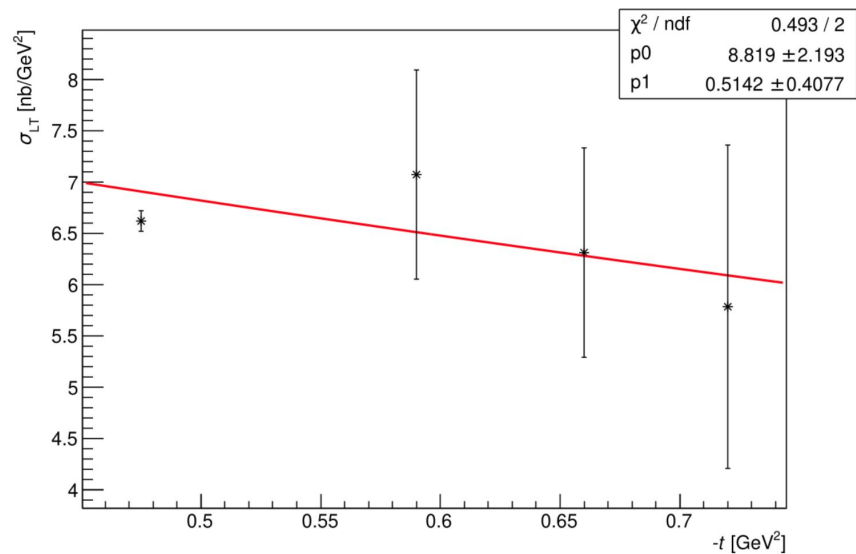
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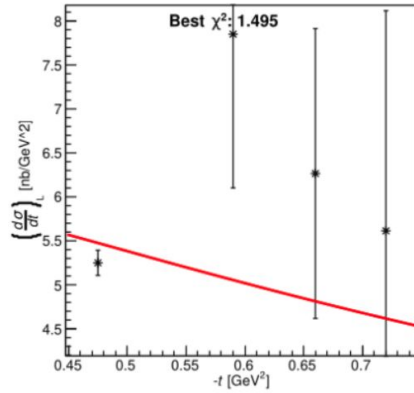


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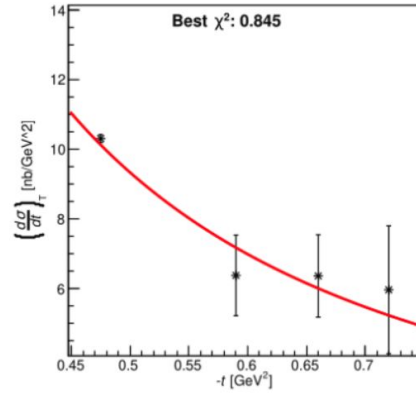


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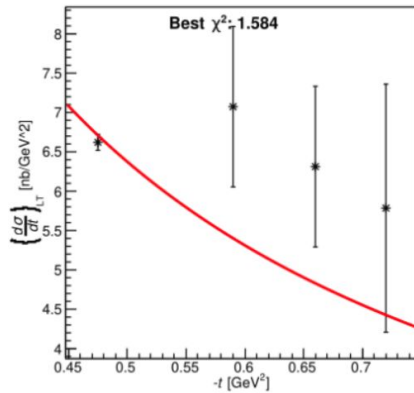
Sigma L Model Fit



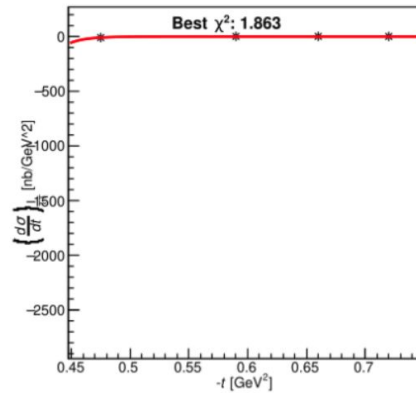
Sigma T Model Fit



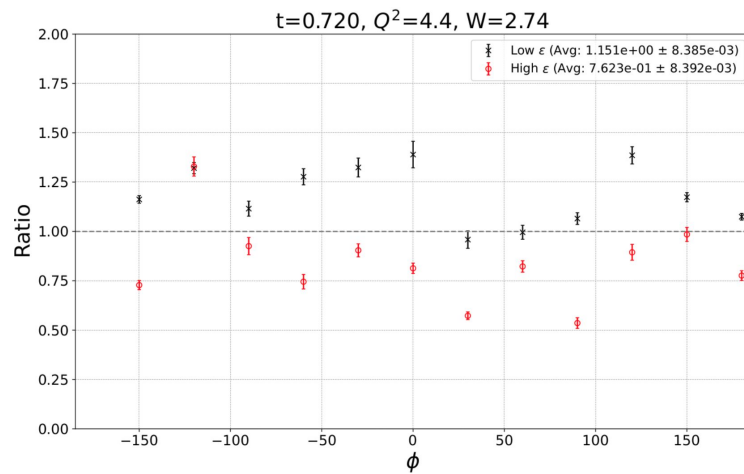
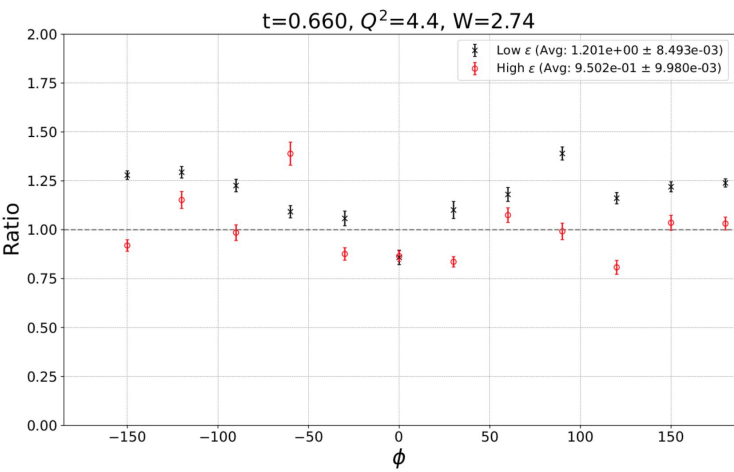
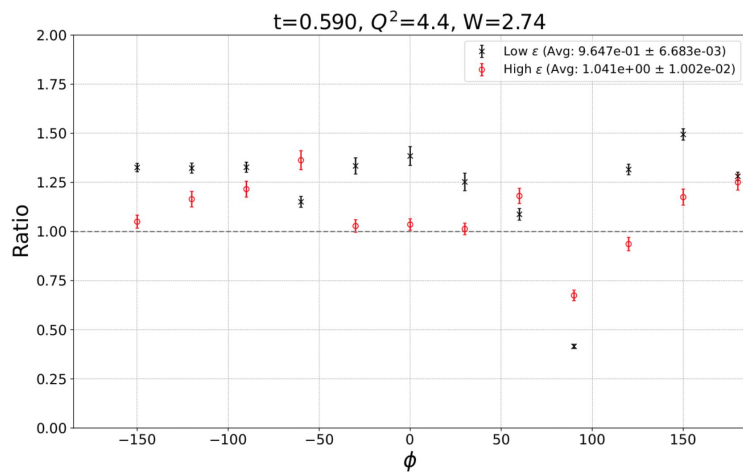
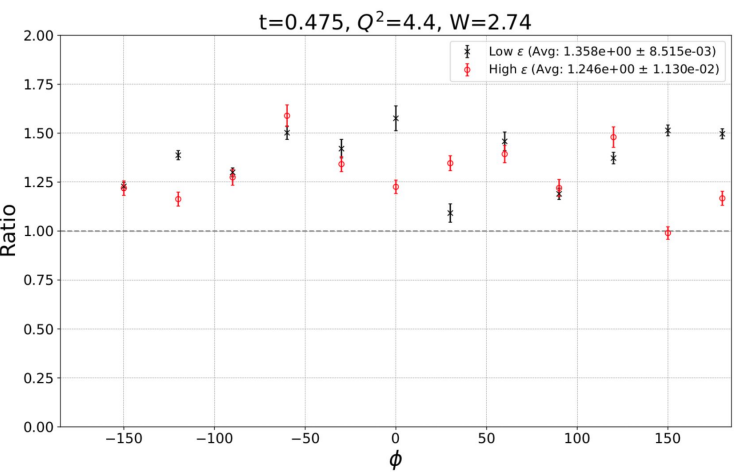
Sigma LT Model Fit



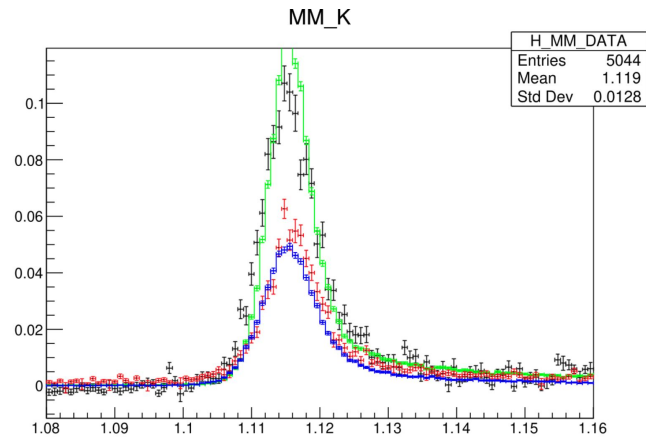
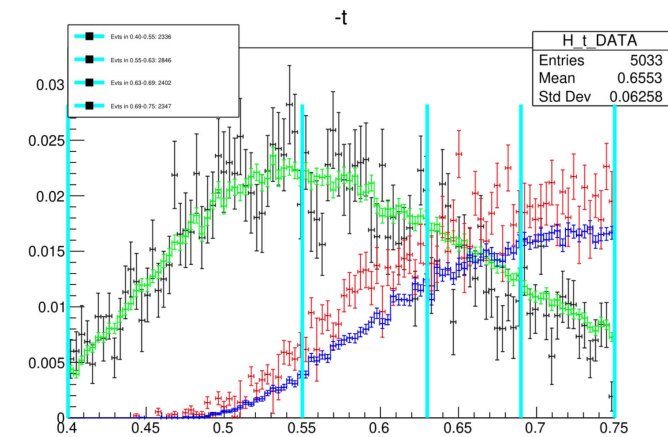
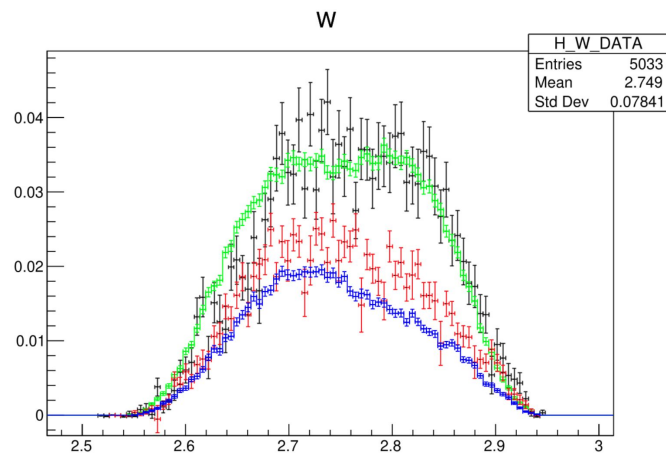
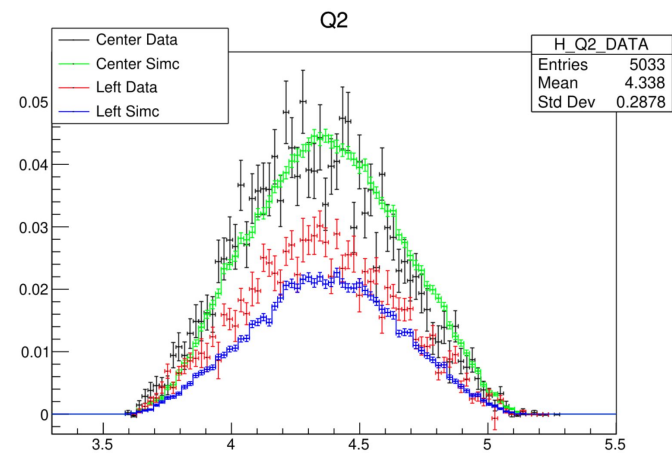
Sigma TT Model Fit



$Q^2=4.4, W=2.74$

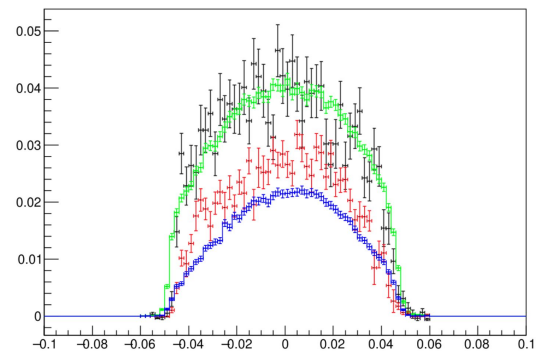


$$Q^2=4.4, W=2.74$$

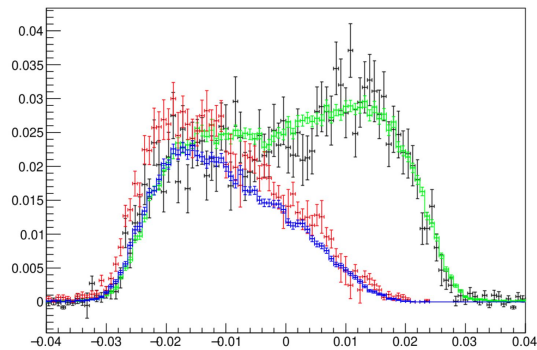


$Q^2=4.4$, $W=2.74$

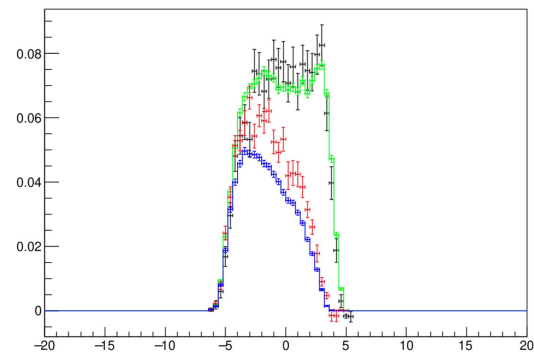
SHMS xptar



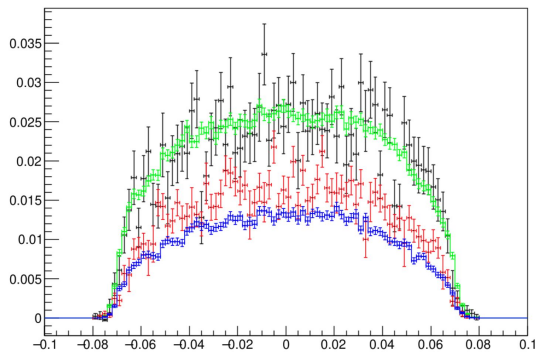
SHMS yptar



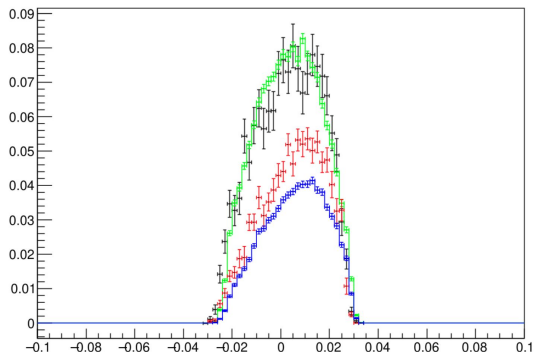
SHMS delta



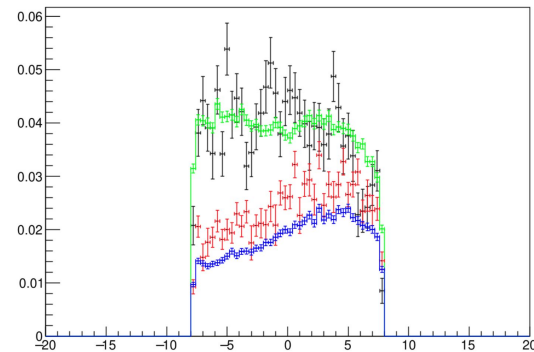
HMS xptar



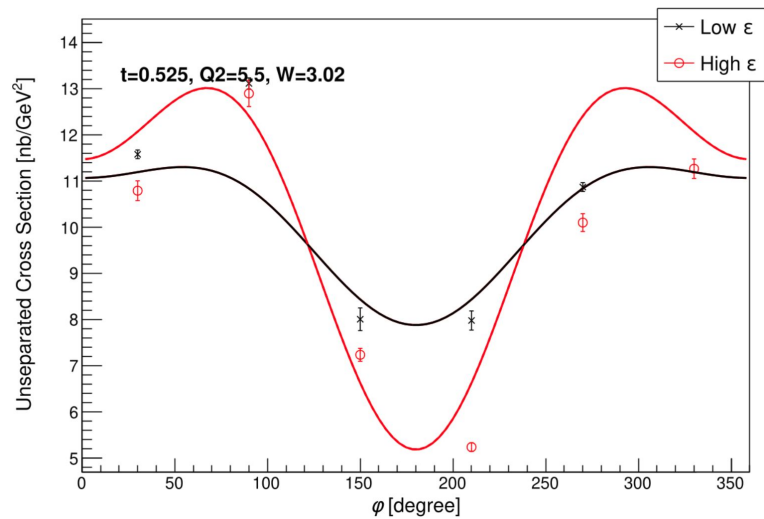
HMS yptar



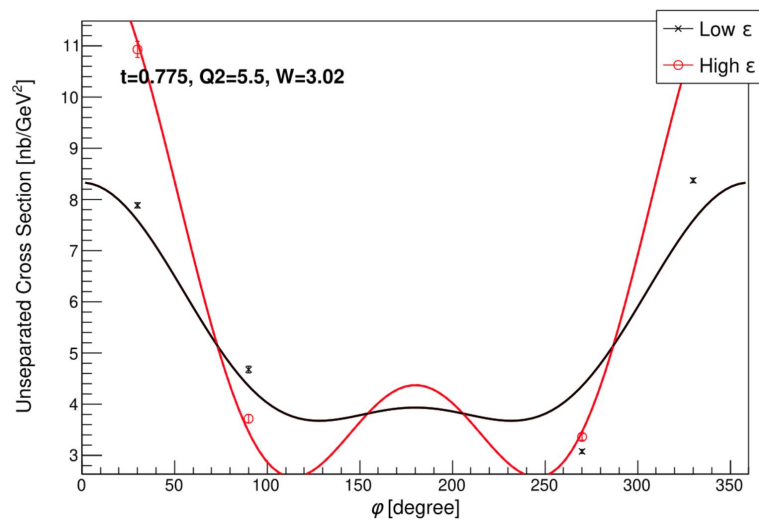
HMS Delta



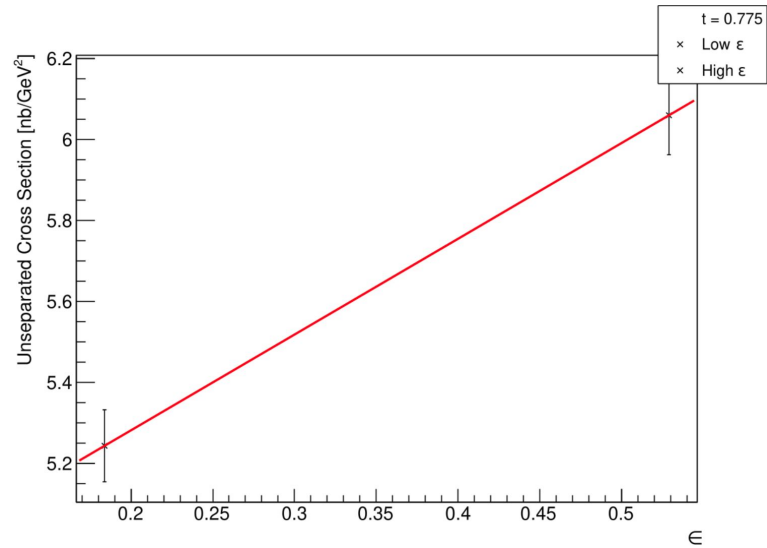
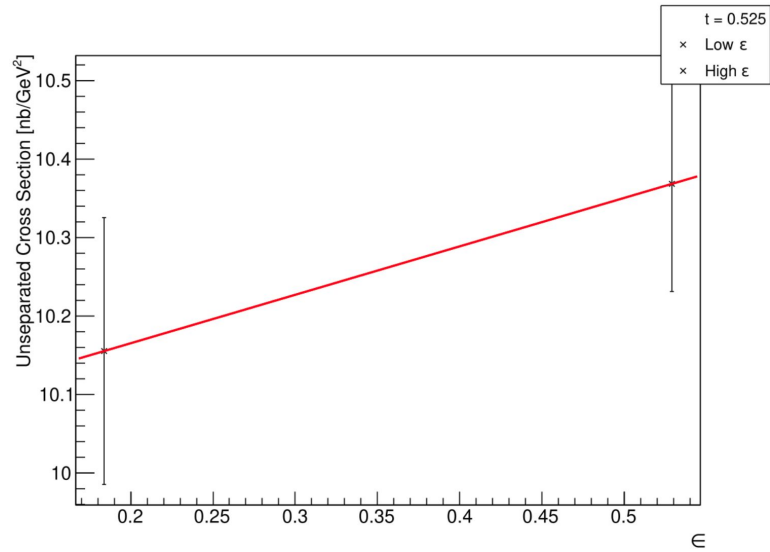
$$Q^2=5.5, W=3.02$$



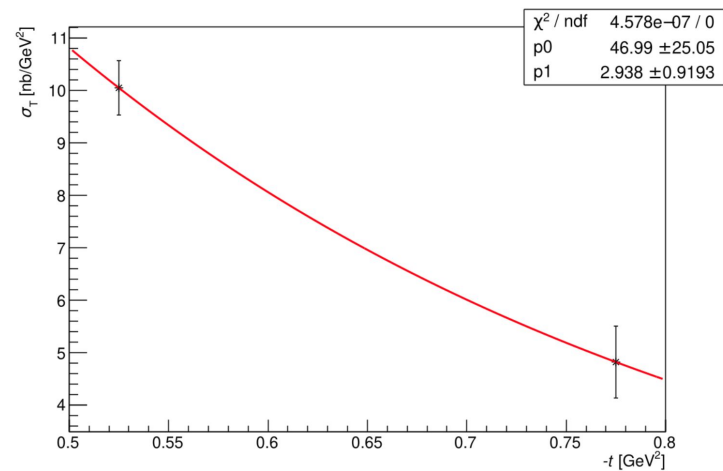
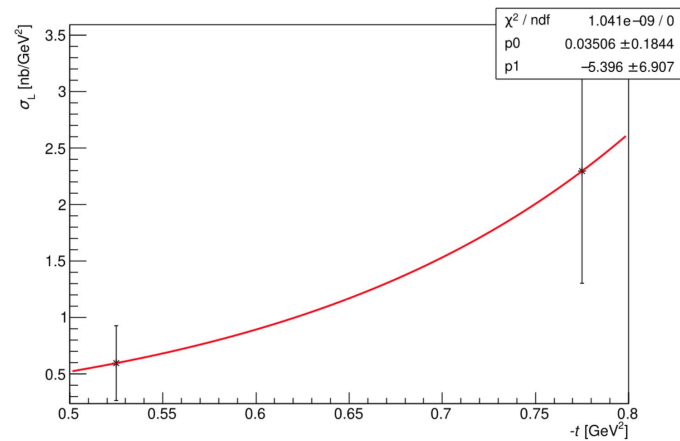
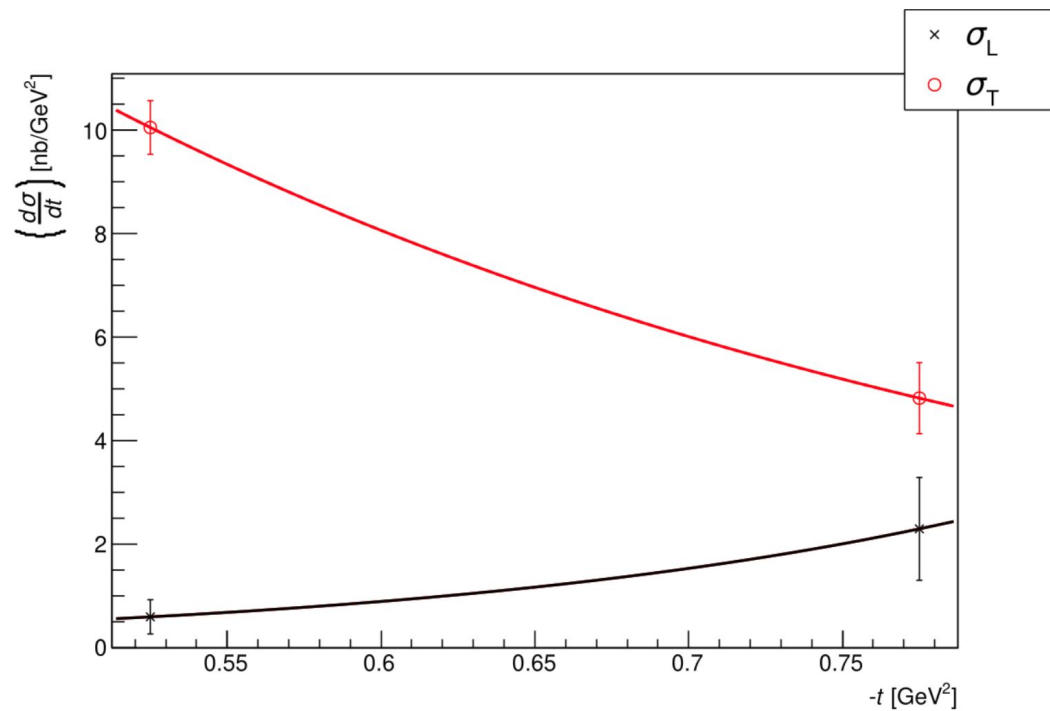
10 iterations



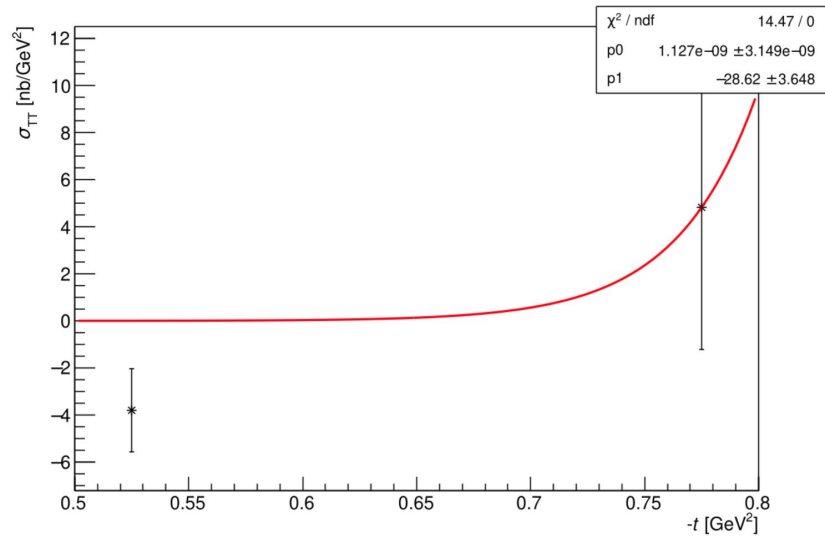
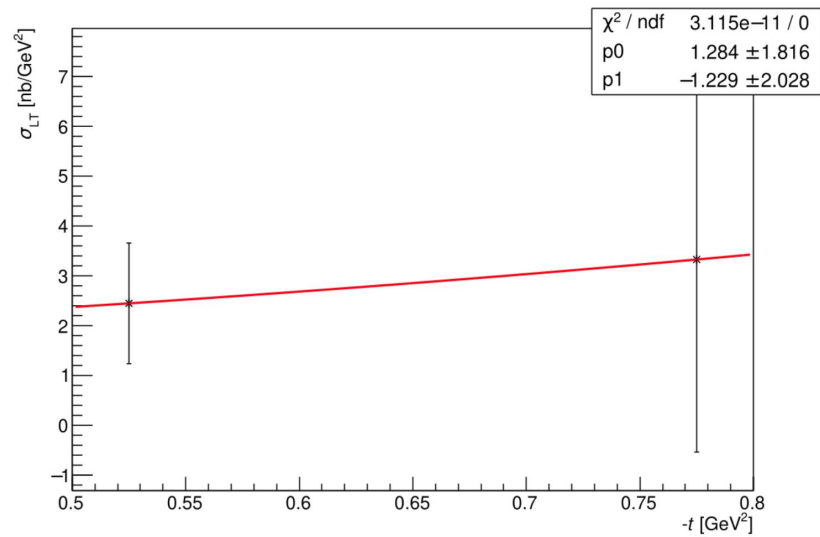
$$Q^2=5.5, W=3.02$$



$$Q^2=5.5, W=3.02$$

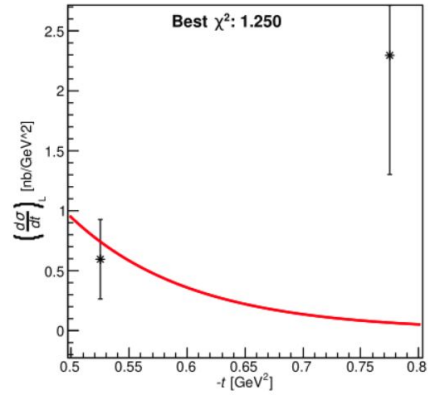


$$Q^2=5.5, W=3.02$$

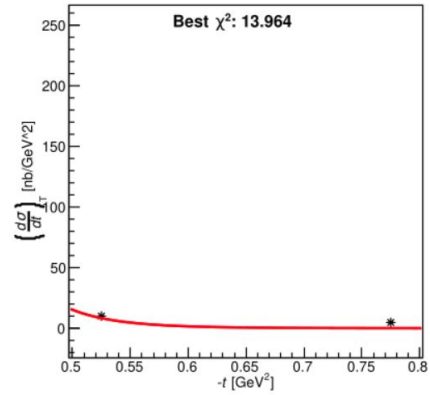


$$Q^2=5.5, W=3.02$$

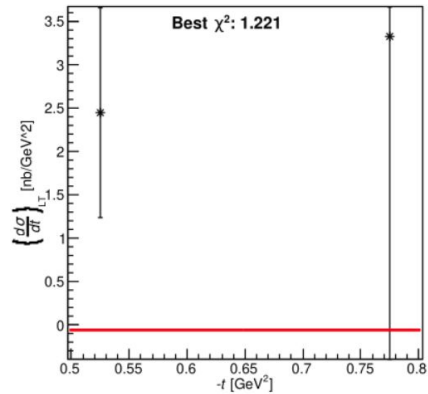
Sigma L Model Fit



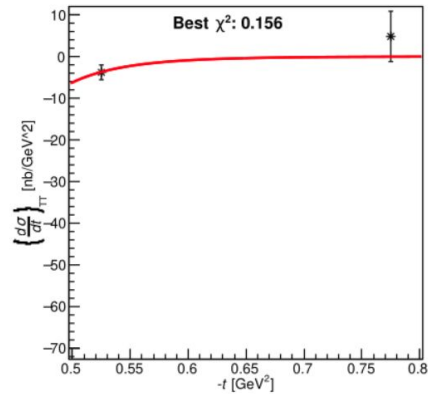
Sigma T Model Fit



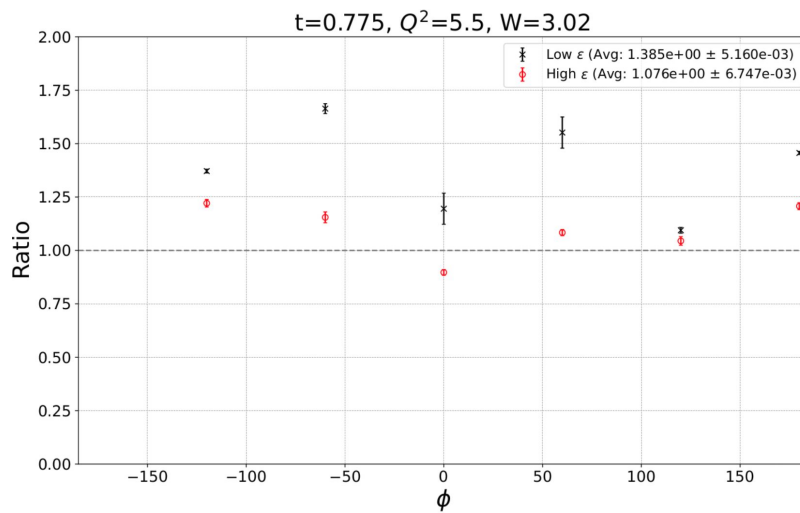
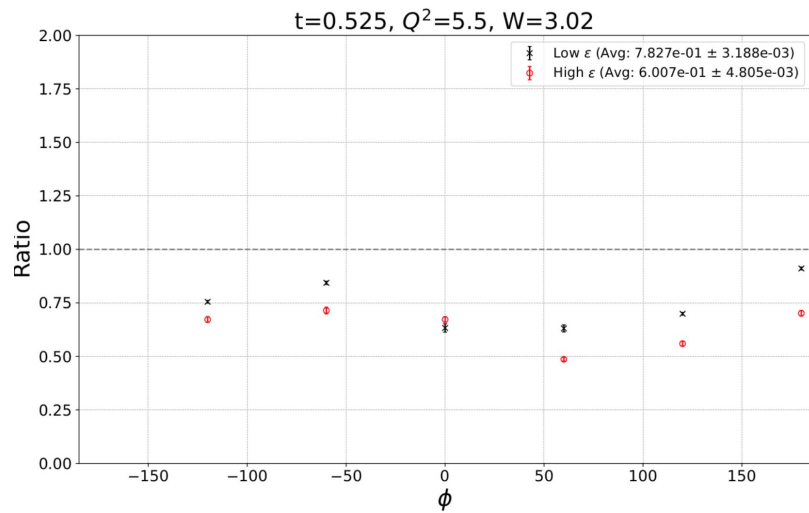
Sigma LT Model Fit



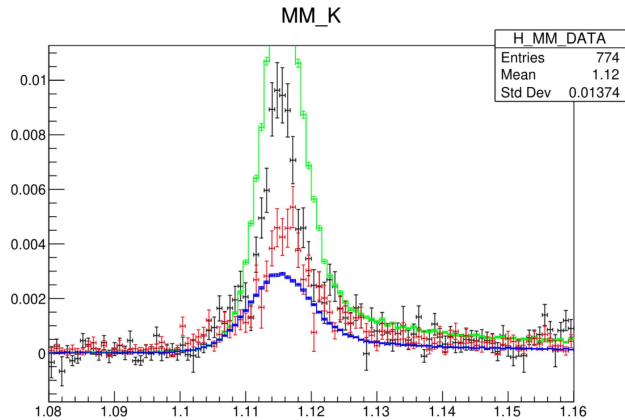
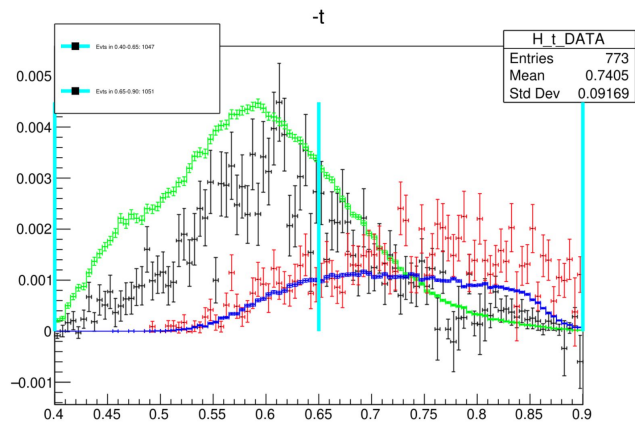
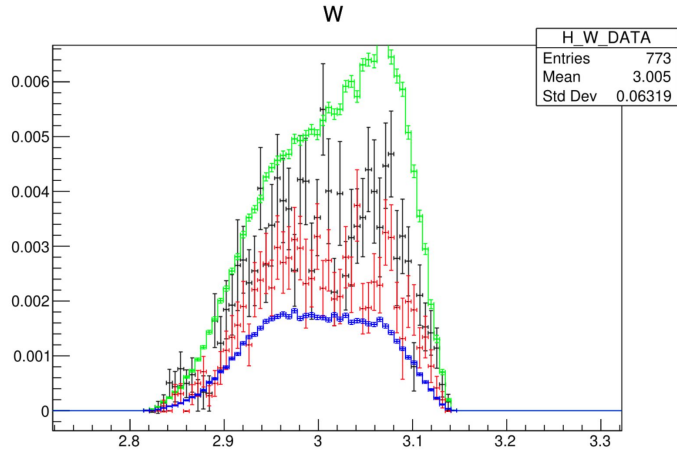
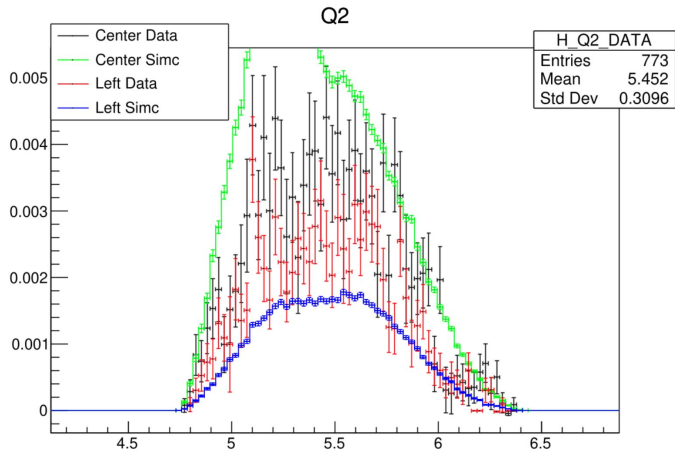
Sigma TT Model Fit



$$Q^2=5.5, W=3.02$$

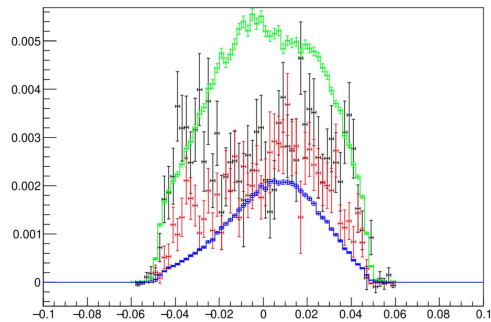


$$Q^2=5.5, W=3.02$$

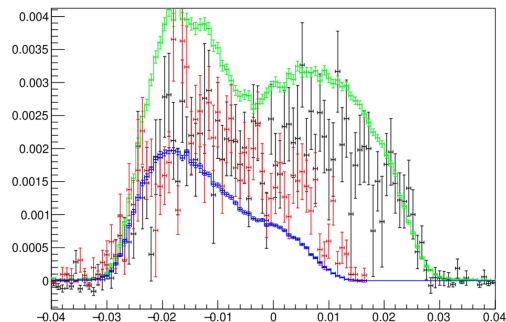


$$Q^2=5.5, W=3.02$$

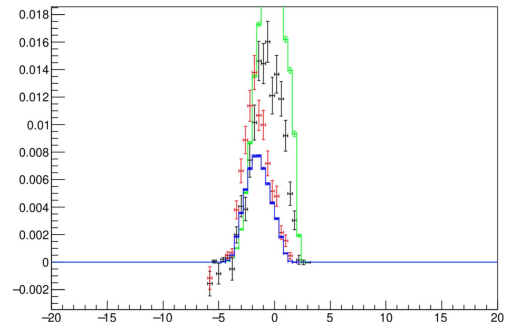
SHMS xptar



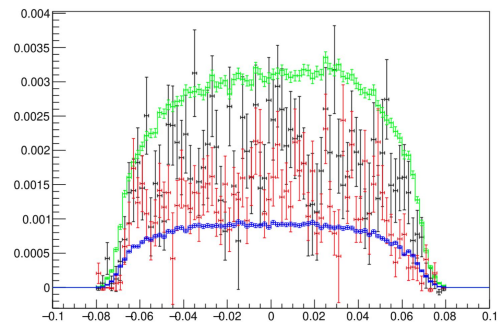
SHMS yptar



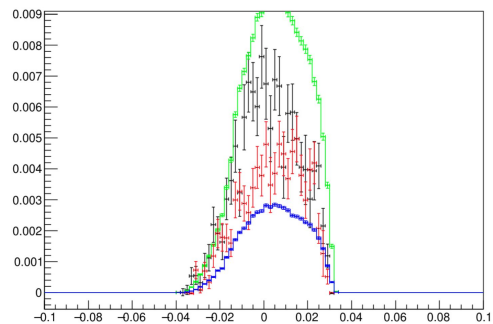
SHMS delta



HMS xptar



HMS yptar



HMS Delta

