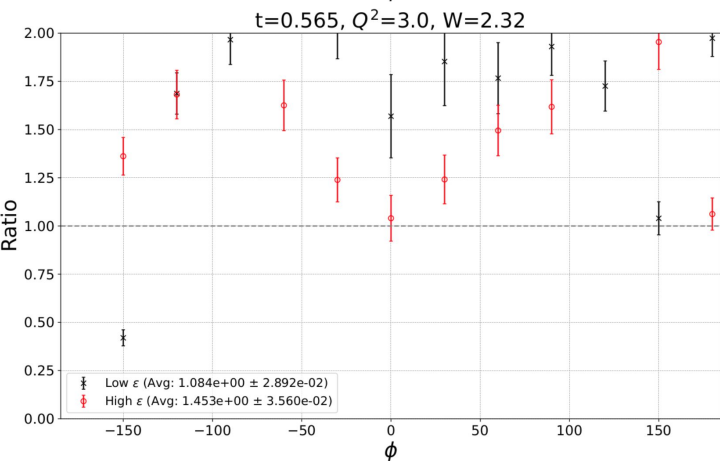
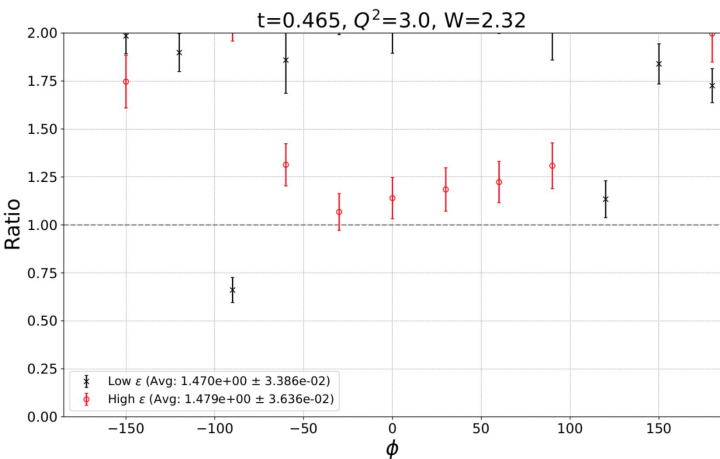


KaonLT Meeting

April 17th, 2024

Richard Trotta

$Q^2=3.0$, $W=2.32$, $t=(0.40-0.75)$, $4t$, 12ϕ



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

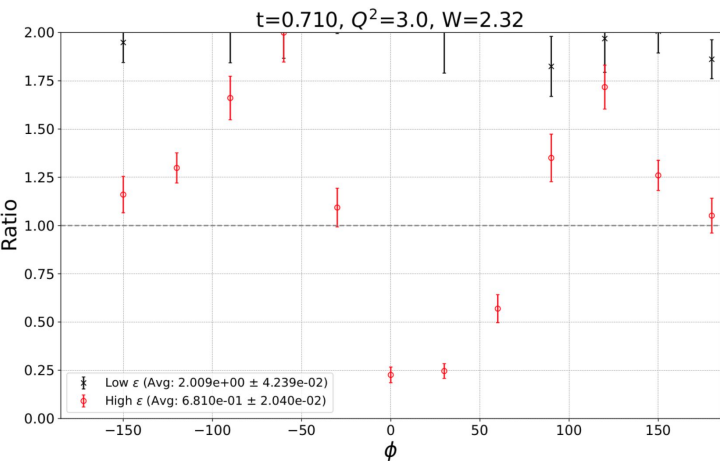
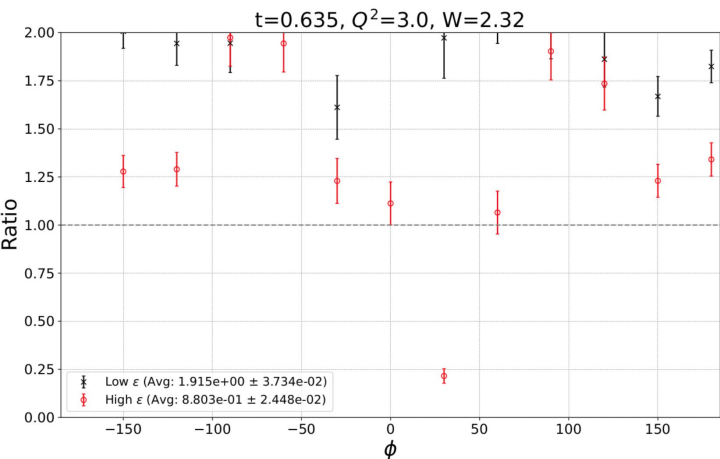
$$\sigma_T = \frac{p_5}{|t|^{p_6}}$$

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

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

Same functional forms as $Q^2=4.4$, 5.5

$Q^2=3.0$, $W=2.32$, $t=(0.40-0.75)$, $4t$, 12ϕ



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

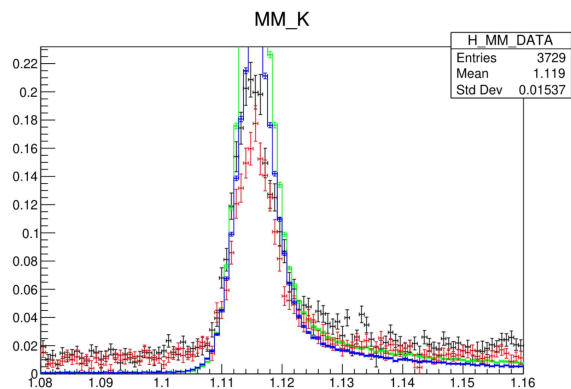
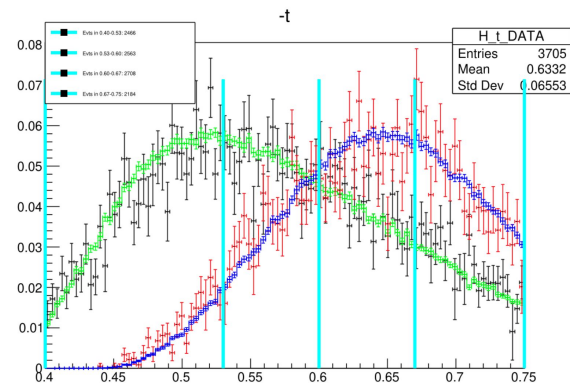
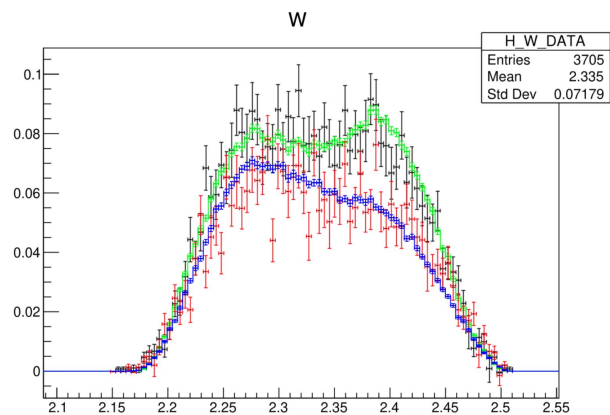
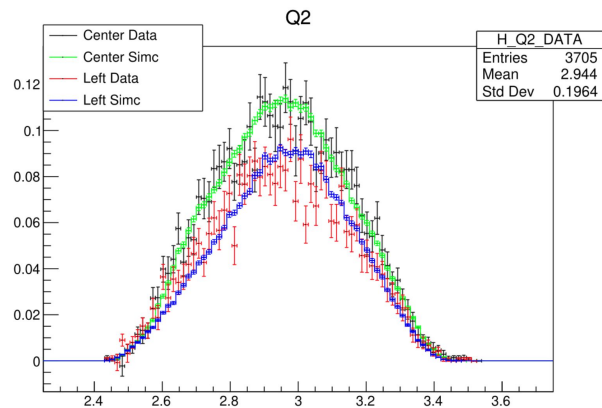
$$\sigma_T = \frac{p_5}{|t|^{p_6}}$$

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

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

Same functional forms as $Q^2=4.4$, 5.5

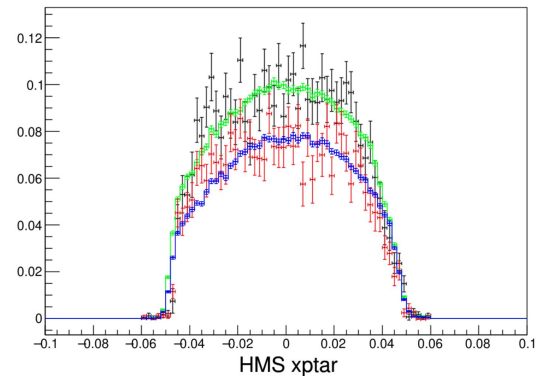
$Q^2=3.0$, $W=2.32$, $t=(0.40-0.75)$, $4t$, 12ϕ



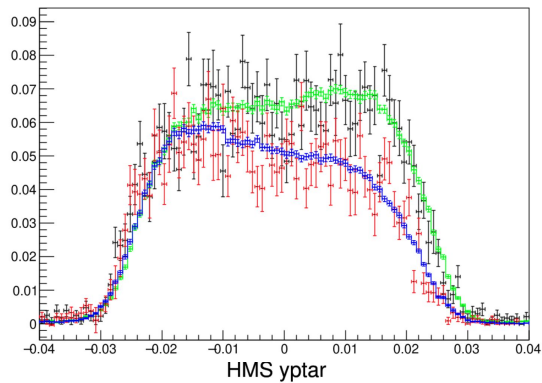
$i=0$

$Q^2=3.0$, $W=2.32$, $t=(0.40-0.75)$, $4t$, 12ϕ

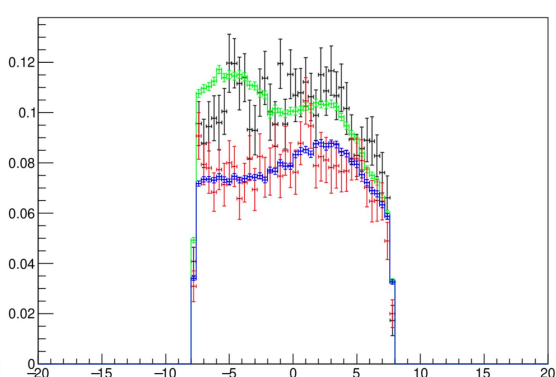
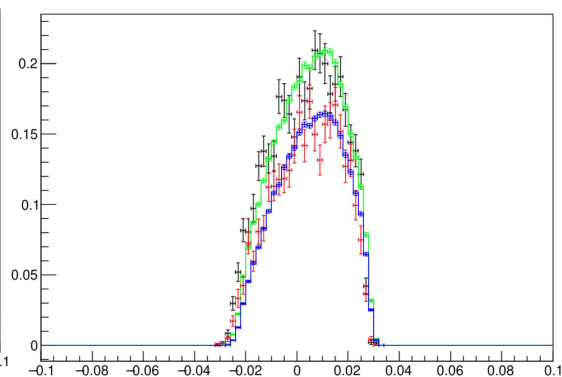
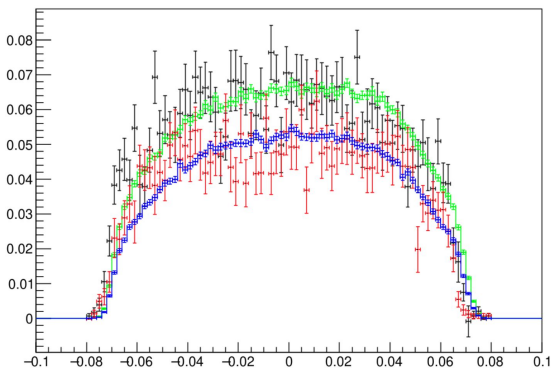
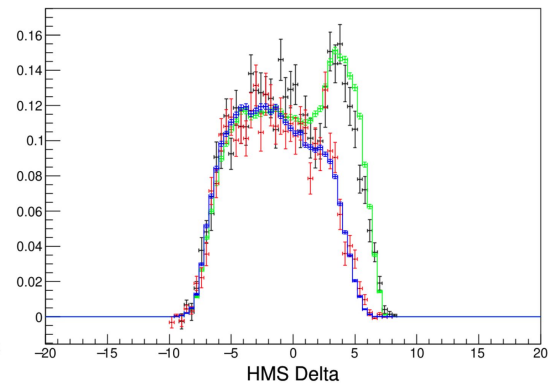
SHMS xptar



SHMS yptar



SHMS delta



To Do

1. Finish up $Q^2=3.0/W=2.32$
2. Parameterize $Q^2=2.115/W=2.95$
3. Re-parameterize $Q^2=3.0/W=3.14$ with new functional form
4. Full SIMC runs with new functions and parameters for all settings
5. Full Replay for all settings
6. Finalize systematics study