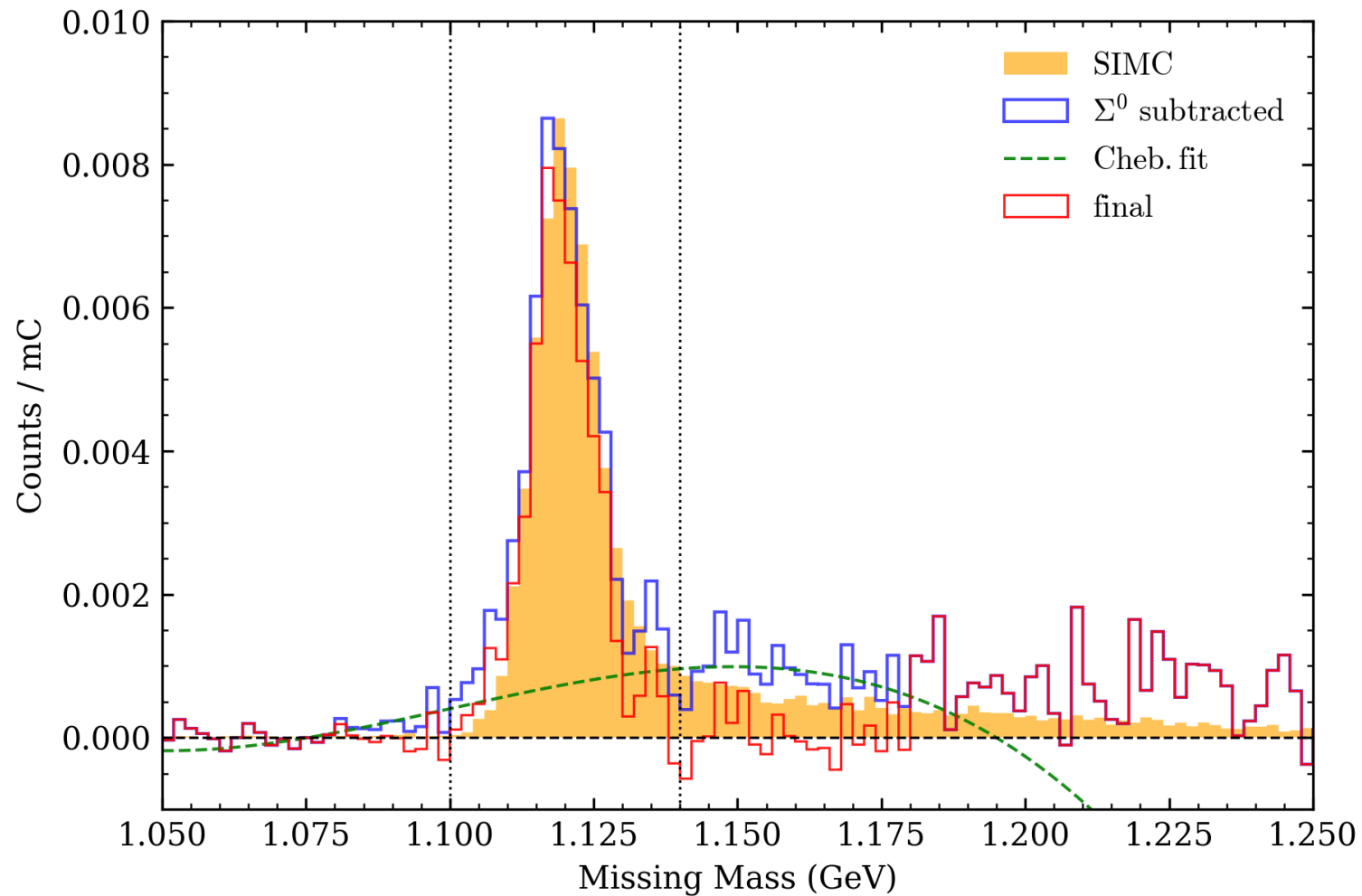


MM fit



- Fit cheb using the side bands $\rightarrow$ simple but risks to oversubtract the tail
- Fit sidebands + main peak $\rightarrow$ more correct but difficult to automate

$$\sigma_L = \frac{p_0 |t|}{(|t| + m_K^2)^2} \exp(-p_1 |t|)$$

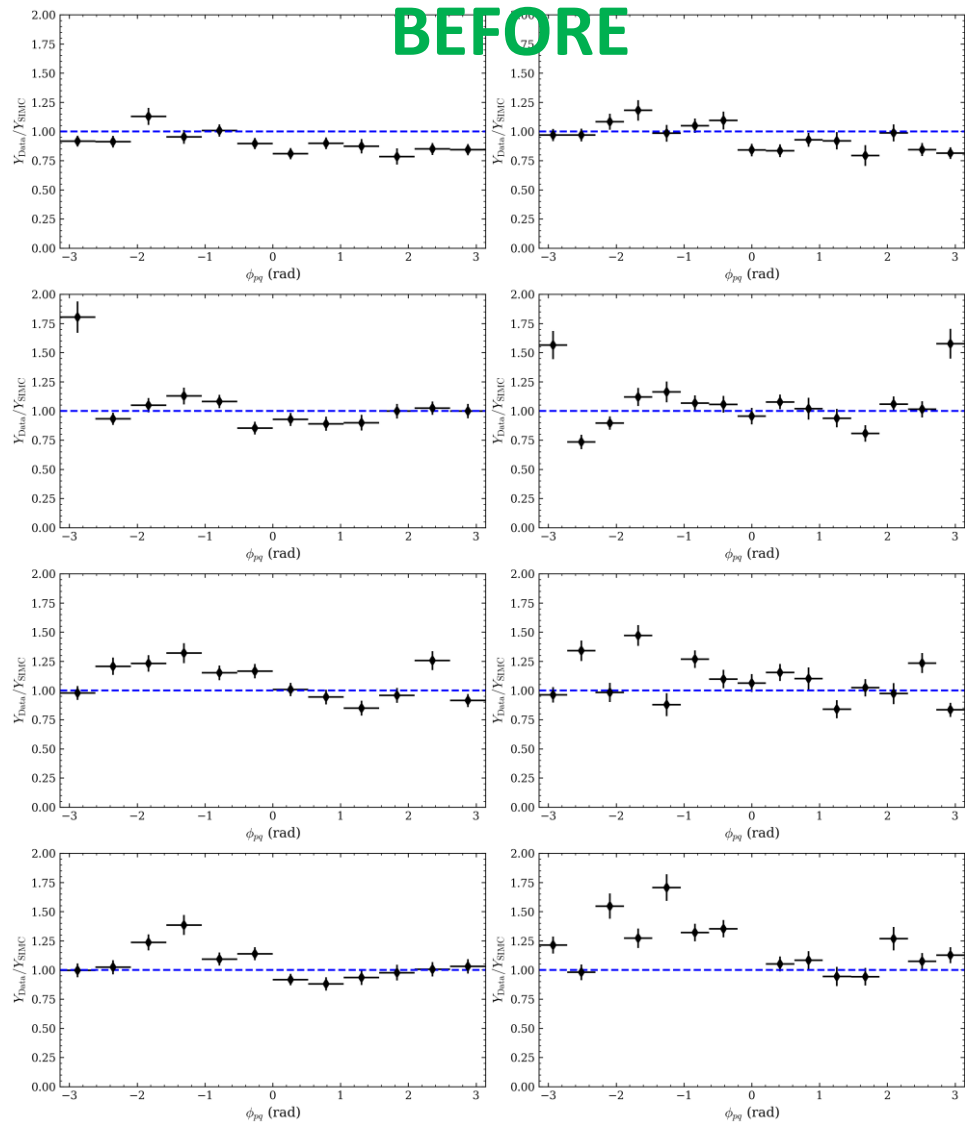
$$\sigma_T = p_4 \exp(-|p_5 t|)$$

$$\sigma_{LT} = p_8 \exp(-p_9 |t|) \sin^2 \theta$$

$$\sigma_{TT} = p_{12} \exp(-p_{13} |t|) \sin^2 \theta$$

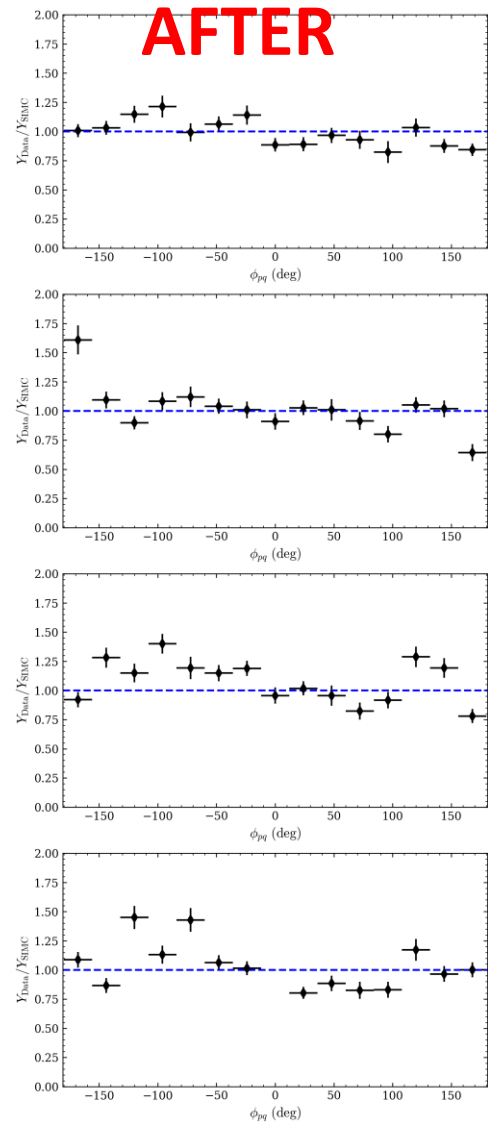
$$w_{factor} = \frac{1}{(W^2 - m_p^2)^2}$$

Q^2=3.0, W=3.14 Yield ratio High e



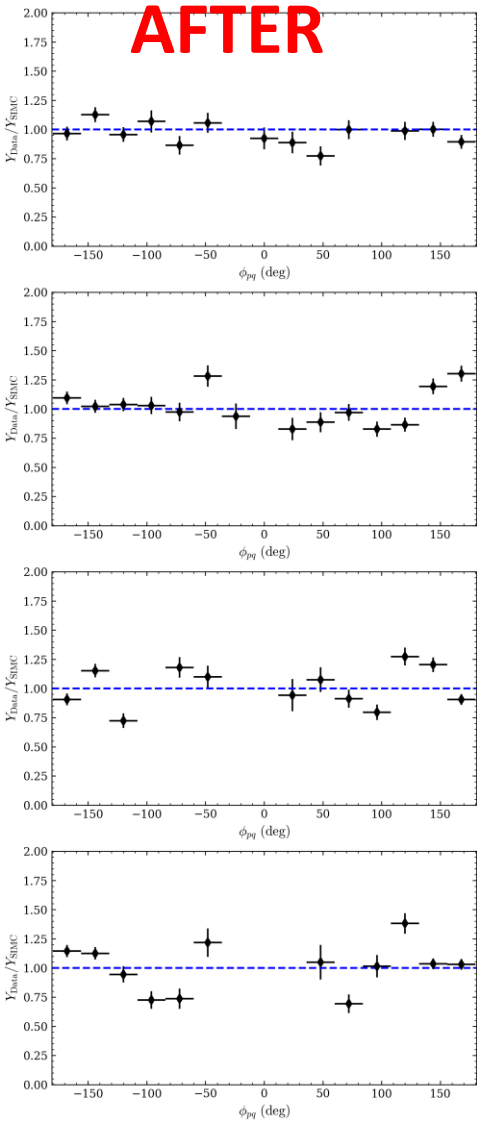
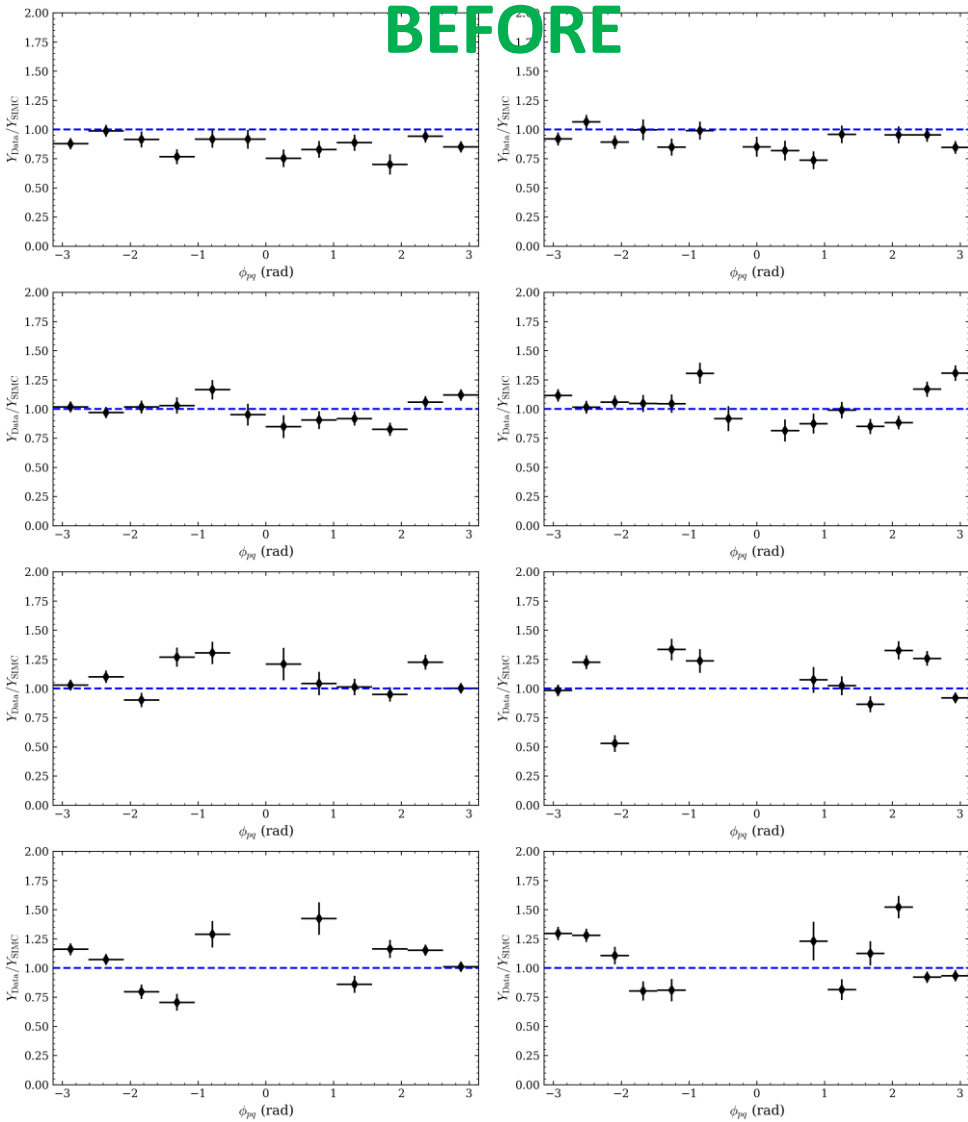
4x12, no-wF

4x15

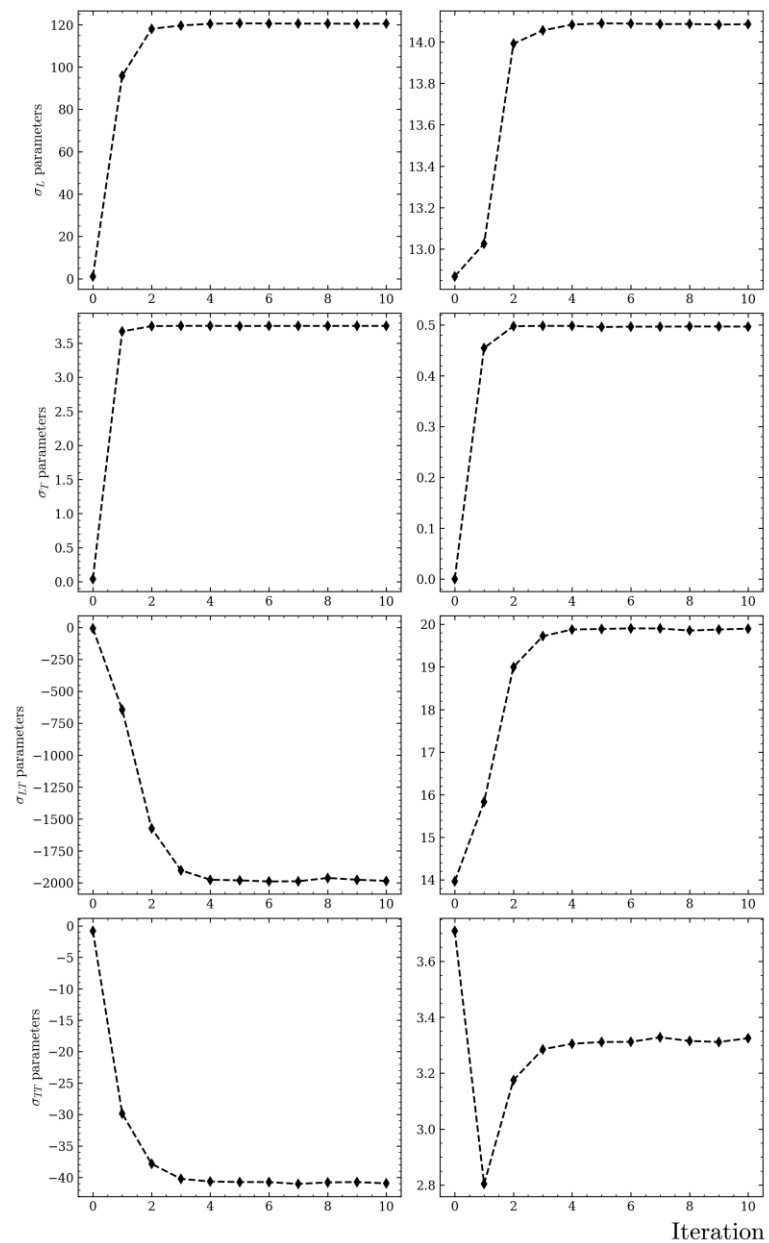
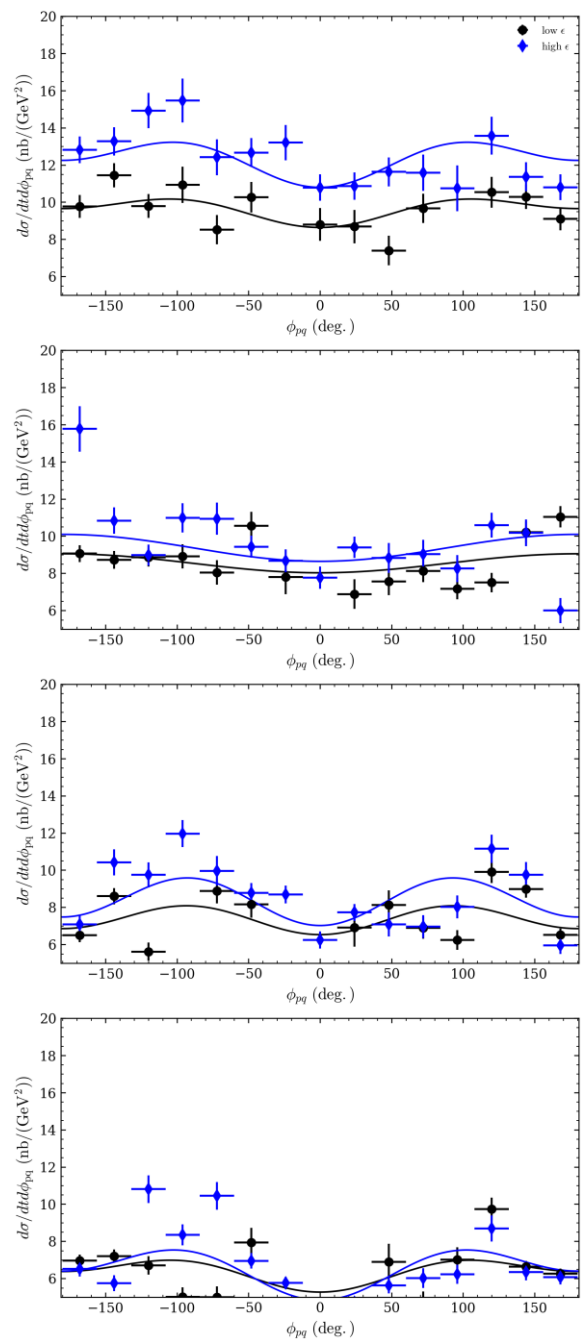
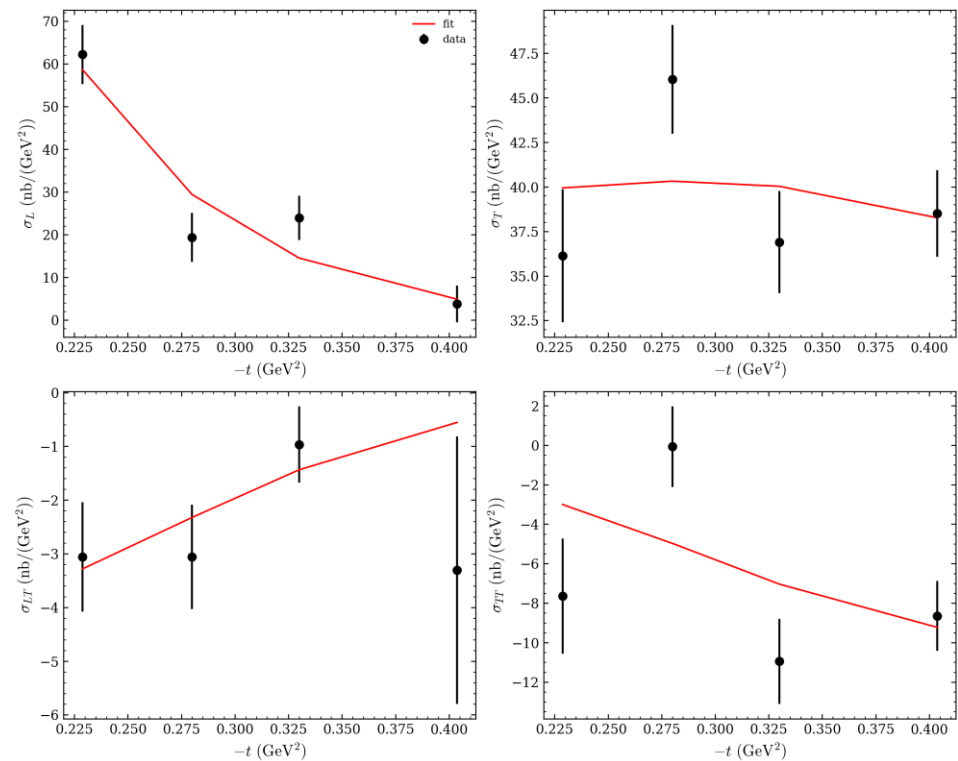


4x15

Q^2=3.0, W=3.14 Yield ratio Low e

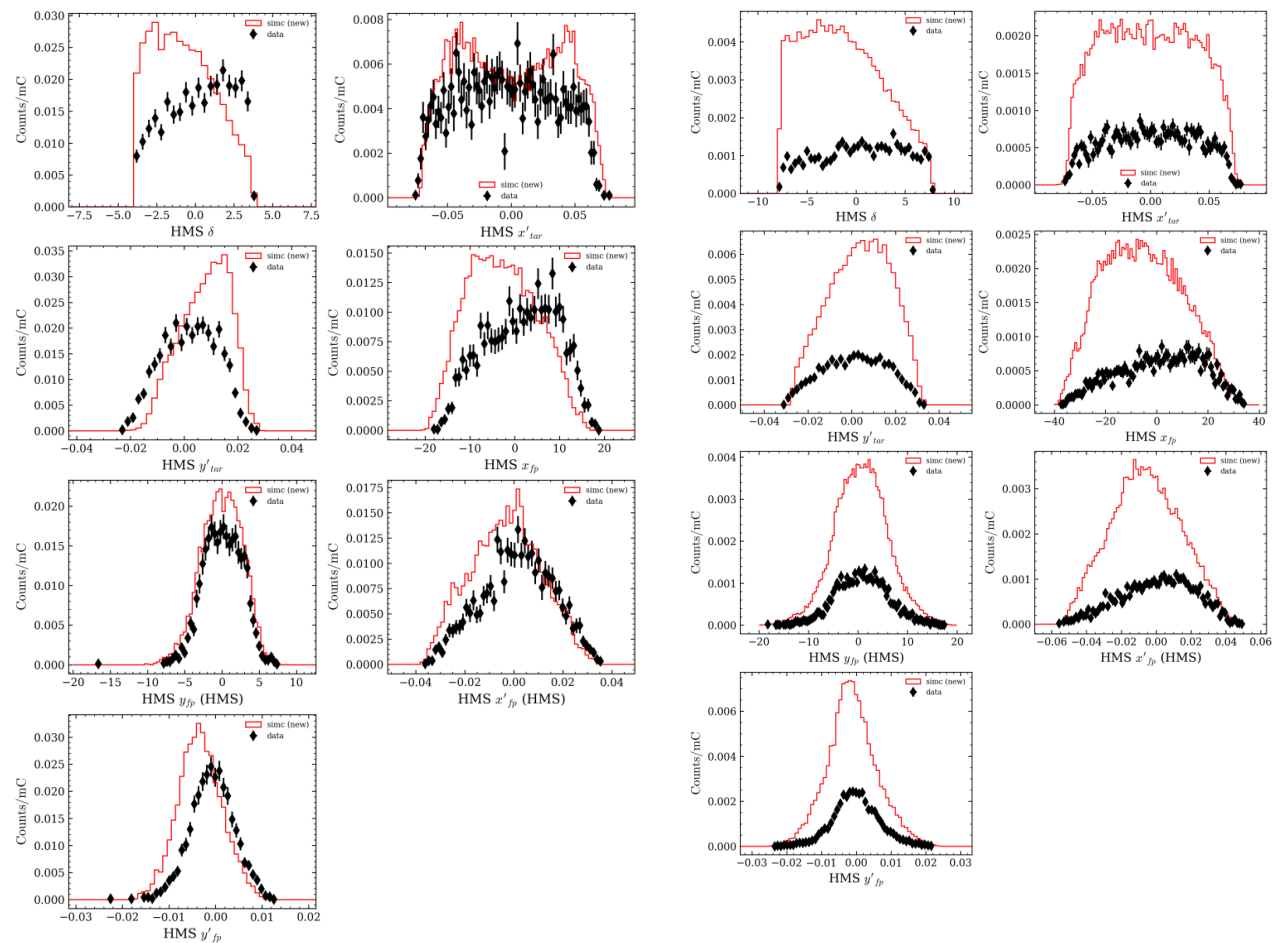
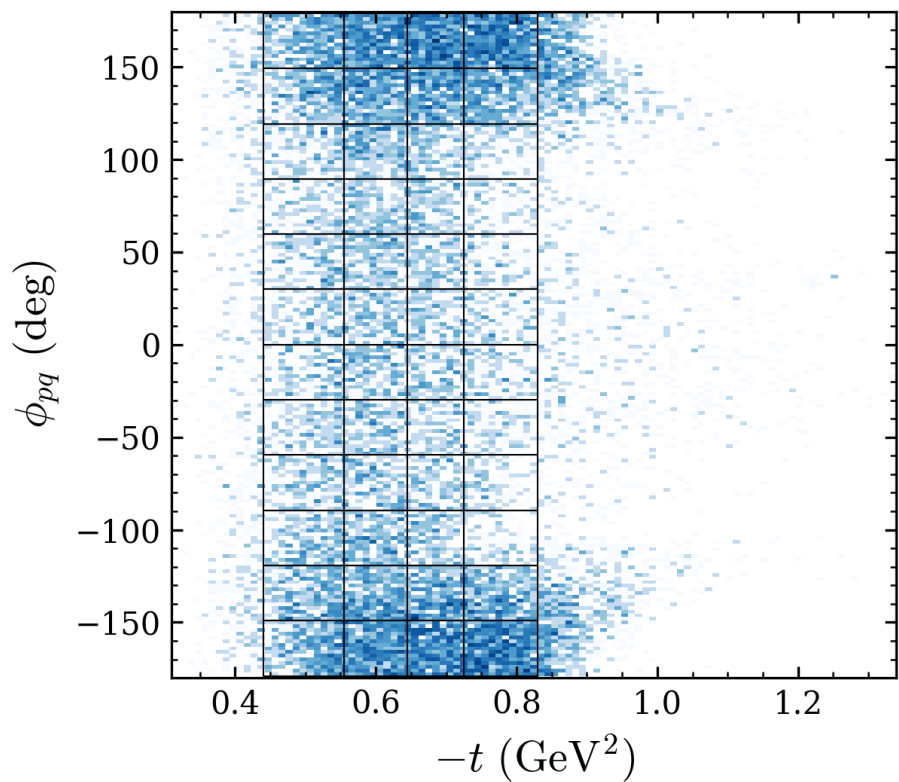


Parameter update



Next week

- $Q^2=4.4$, $W=2.74$ Iteration (4x12) → working on first iteration parameters
- Plot mm per bin to check subtraction → incorrect in many bins ending up correct yield ratio?



Tuning iter-01 parameters

Center settings

