

KaonLT Meeting

August 7th, 2024

Richard Trotta

$$\sigma_L = p_1 \cdot Q_{F,L} \cdot t_{pole} \cdot e^{-p_6|-t|}$$

$$\sigma_T = (p_5 \cdot e^{-p_6 \cdot |-t|} + p_7 \cdot |-t|) \cdot Q_{F,T}^{p_8}$$

$$\sigma_{LT} = \frac{p_9}{1 + Q^2} \cdot e^{-p_{10}|-t|} \cdot \sin \theta_K$$

$$\sigma_{TT} = \frac{p_{13}}{(1 + Q^2)} \cdot t_{pole} \cdot e^{-p_{14}Q^2} \cdot \sin^2 \theta_K$$

$$Q_{F,L} = \frac{Q^2}{1 + 1.77Q^2 + 0.12(Q^2)^2}$$

$$t_{pole} = \frac{|-t|}{(|-t| + m_K^2)^2}$$

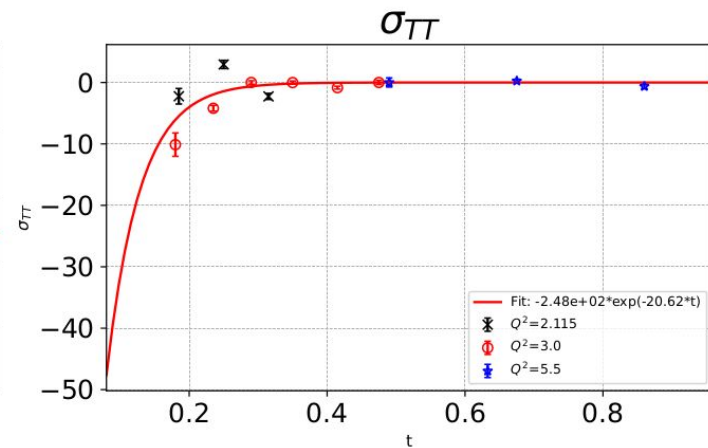
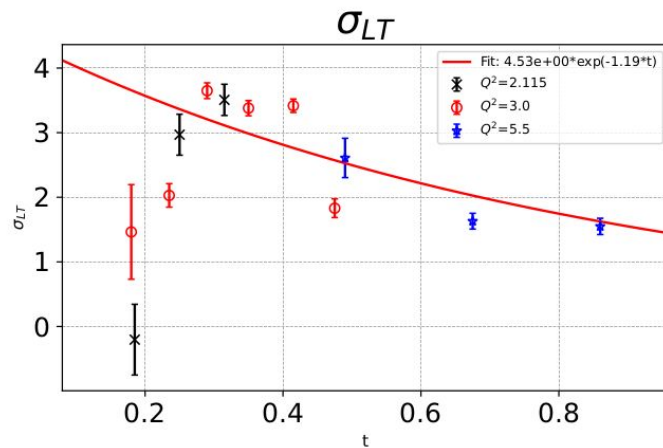
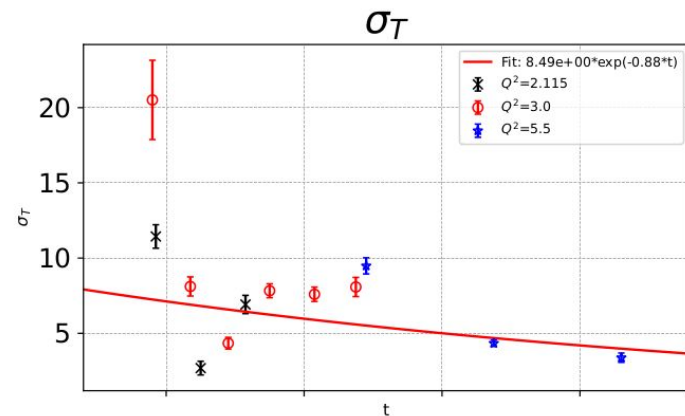
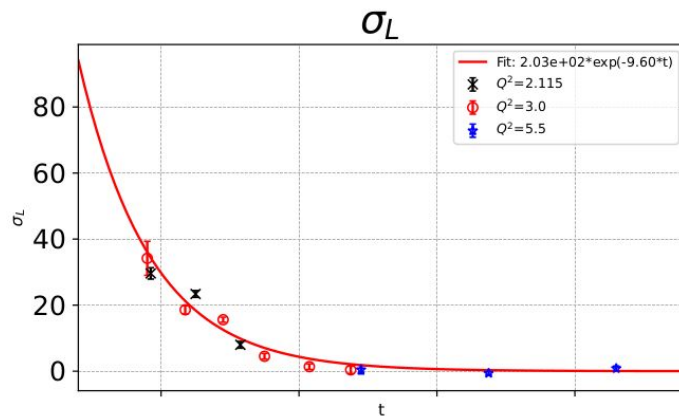
$$Q_{F,T} = \frac{e^{-(Q^2)^2}}{Q^2}$$

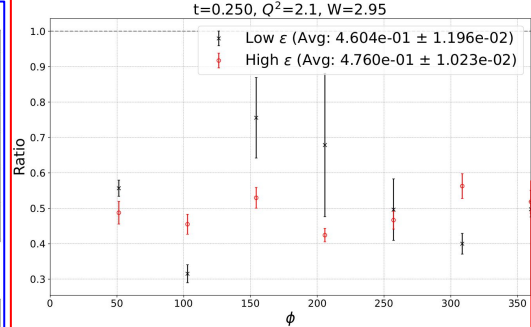
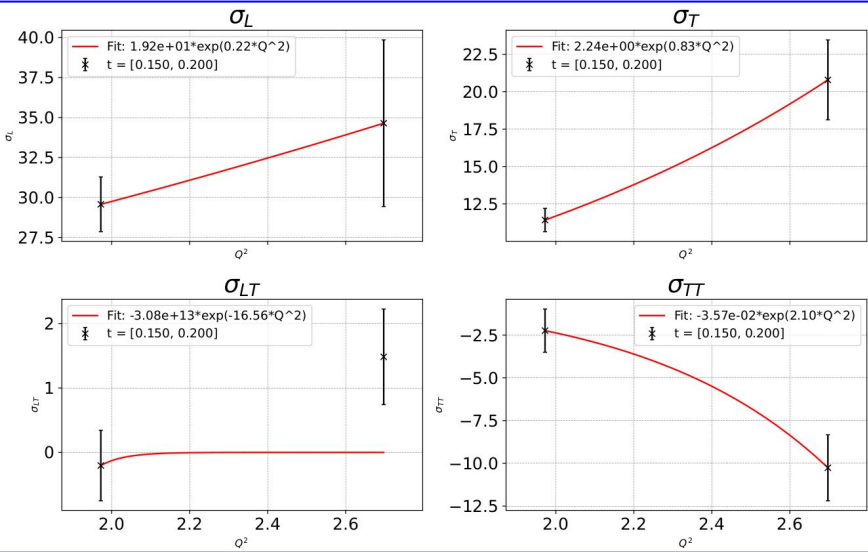
Data scaled to $W=3.0$
using...

$$\frac{1}{(W^2 - M_p^2)^n}$$

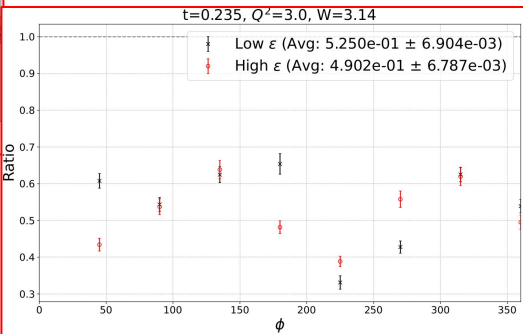
where $n=2$

* Q^2 unscaled



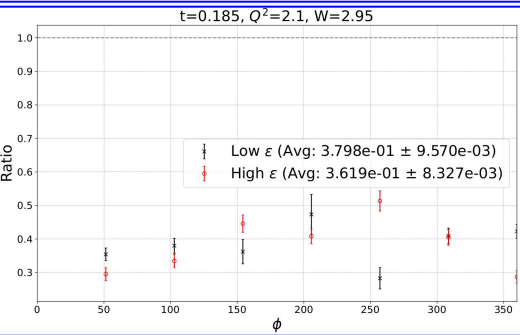


$\Delta t < 0.05$

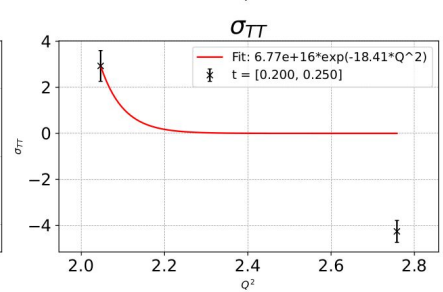
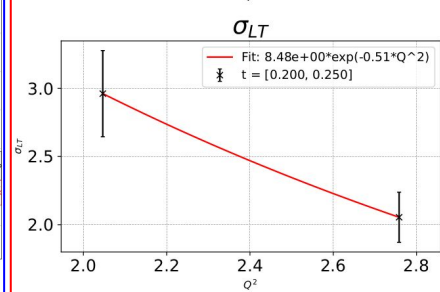
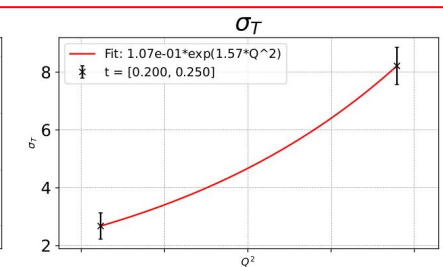
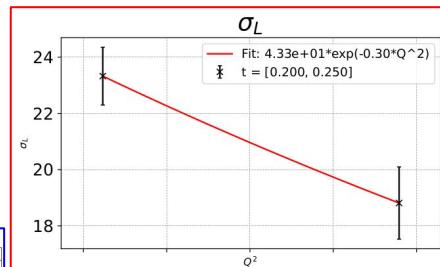
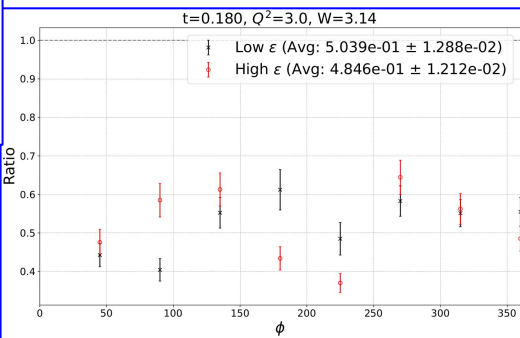


$t \sim 0.18$

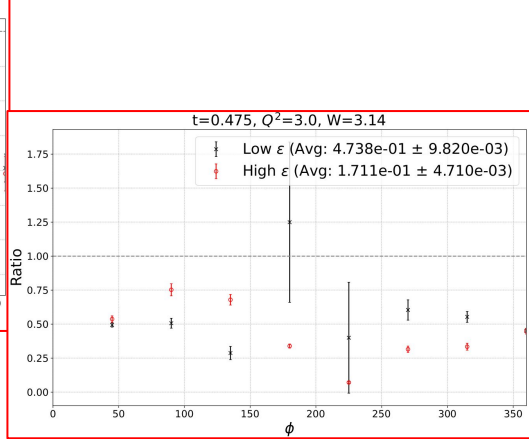
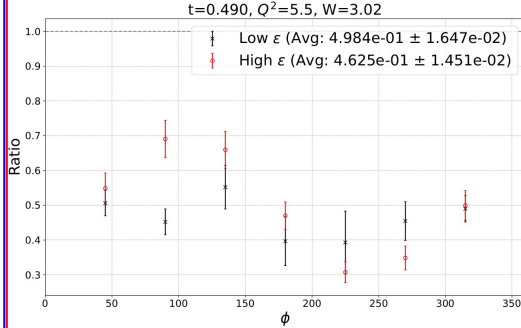
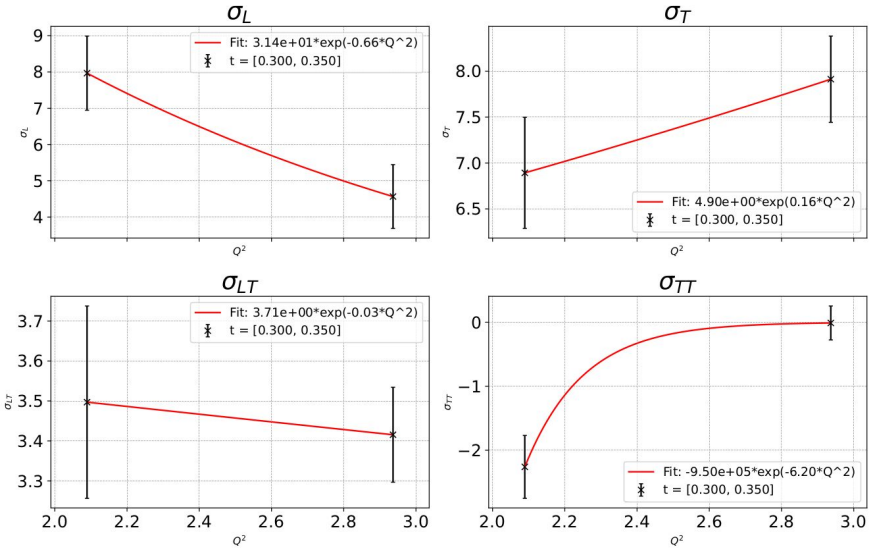
$t \sim 0.24$



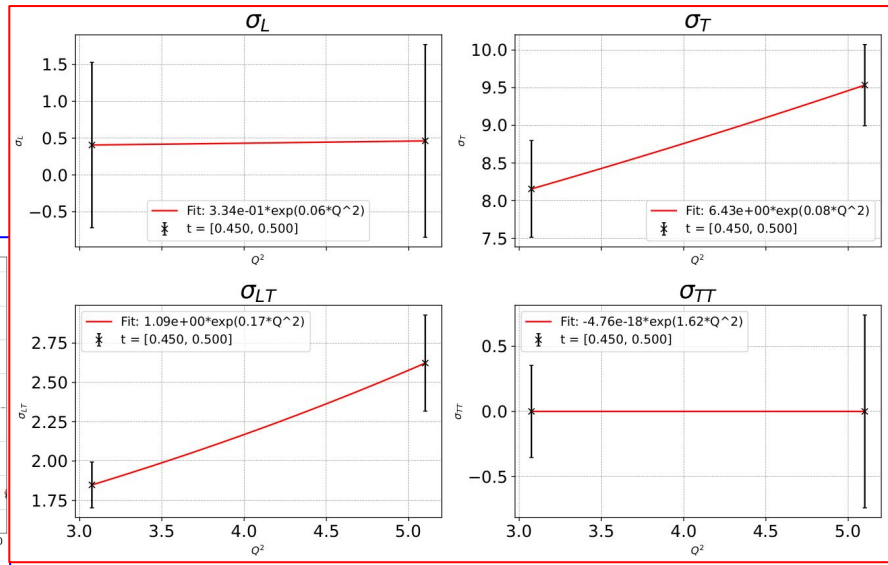
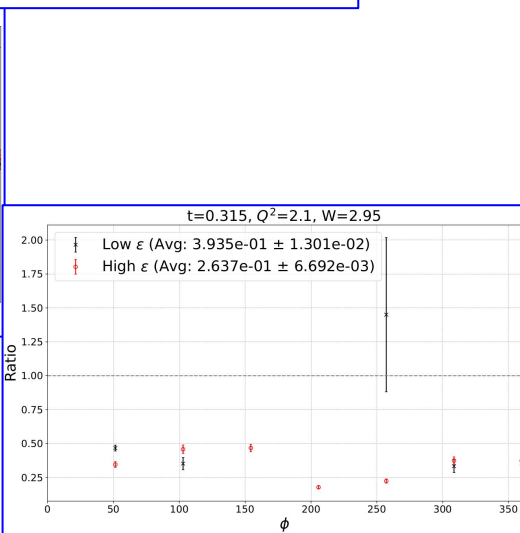
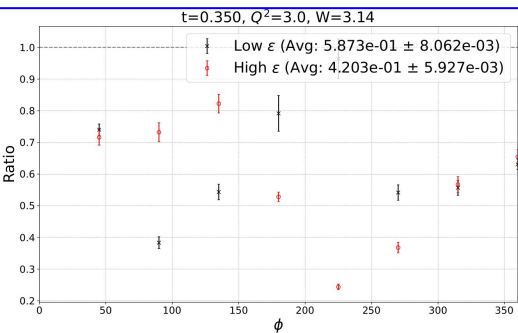
σ_L pole-like



$i=12$



$t \sim 0.32$
 $t \sim 0.48$



$i=12$