KaonLT Meeting

October 17th, 2024

Richard Trotta

$$\sigma_{TT} = p_{13} \cdot e^{-p_{14} \cdot |t|} \cdot \frac{1.0}{1.0 + (\frac{Q^2}{p_{15}})^2}$$ Trial 1: Marco's Thesis

$$\sigma_{TT} = (\frac{p_{13}}{|t|})^3 \cdot e^{p_{14} \cdot |t|} + \frac{p_{15}}{|t|}) \cdot \sin^2 \theta$$ Trial 2: Vijay's Thesis

$$\sigma_{TT} = p_{13} \cdot e^{-p_{14} \cdot |t|} \cdot \frac{1.0}{1.0 + (\frac{Q^2}{p_{15}})^2} \sin^2 \theta$$ Trial 3: Mod. Marco's Thesis with sine term

$$\sigma_{TT} = p_{13} \cdot e^{-p_{14} \cdot |t|} \cdot \frac{1.0}{1.0 + (\frac{Q^2}{p_{15}})^2} \sin^3 \theta$$ Trial 4: Mod. Marco's Thesis with sine term

$$\sigma_{TT} = (-p_{13}|t| + p_{14}) \cdot |t|^{\frac{Q^2}{p_{15}}} - p_{16} \cdot Q^2 \sin^2 \theta$$ Trial 5: My function minimizing χ^2

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

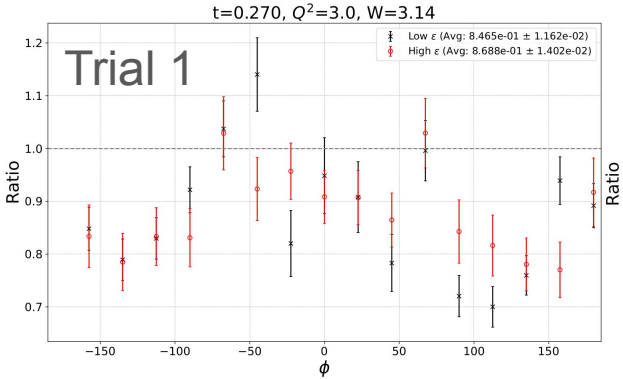
$$\sigma_T = (p_5 e^{-p_6 |t|} + p_7 \cdot |t|) \cdot Q_{dep,T}^{p_8}$$

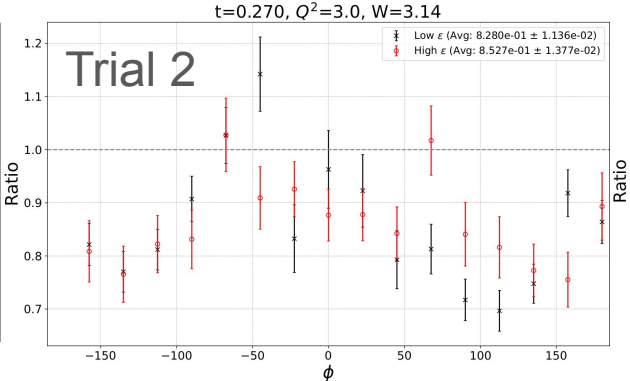
$$\sigma_{LT} = (p_9 \cdot e^{p_{10} |t|} + \frac{p_{11}}{|t|}) \cdot \sin \theta$$

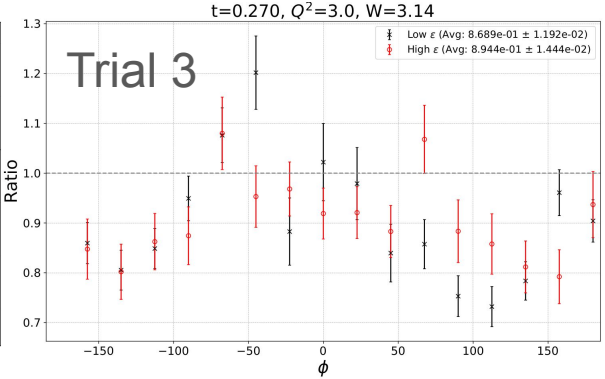
$$\frac{1}{(W^2 - M_p^2)^n}$$

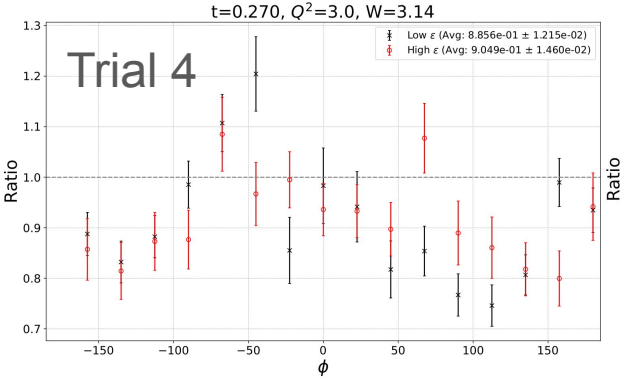
n=2.25 | Q^2=3.0, W=3.14

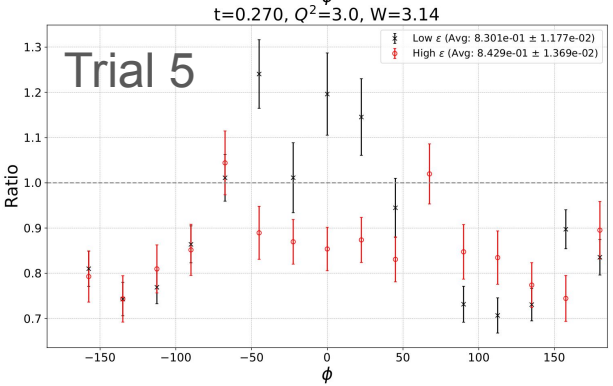
Q^2=3.0, W=3.14, t=(0.17-0.40), 6t, 16φ





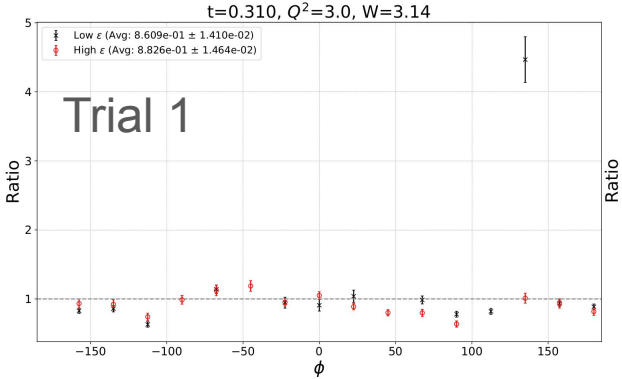


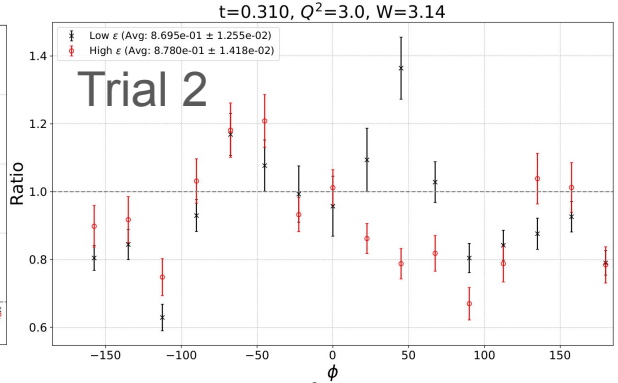


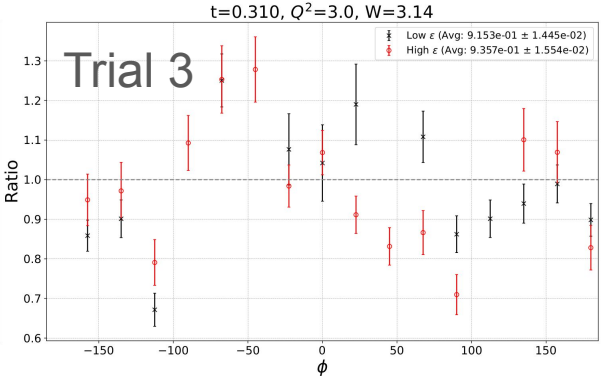


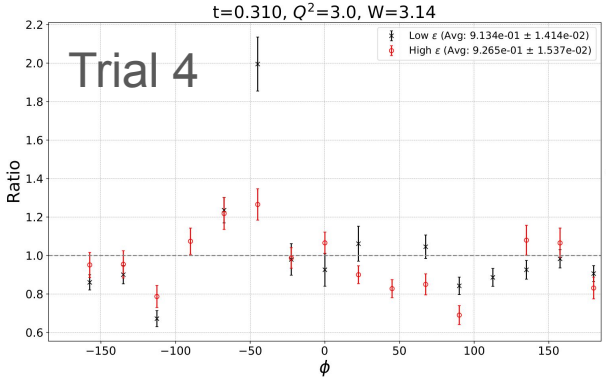
i=5

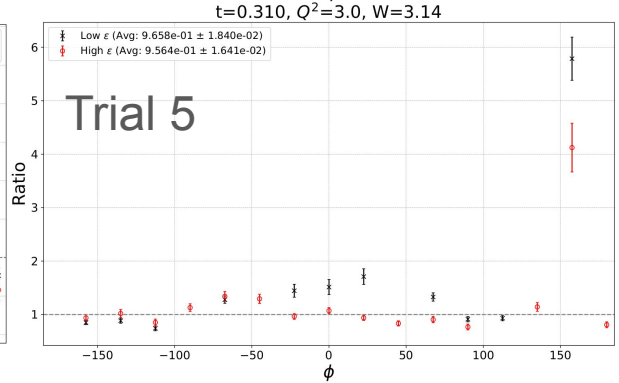
Q^2=3.0, W=3.14, t=(0.17-0.40), 6t, 16φ



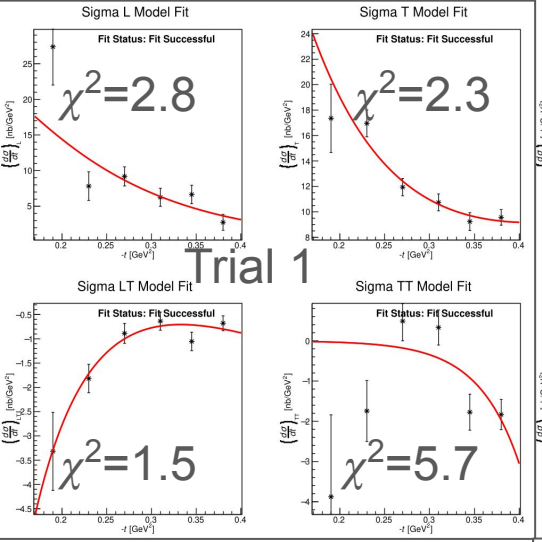


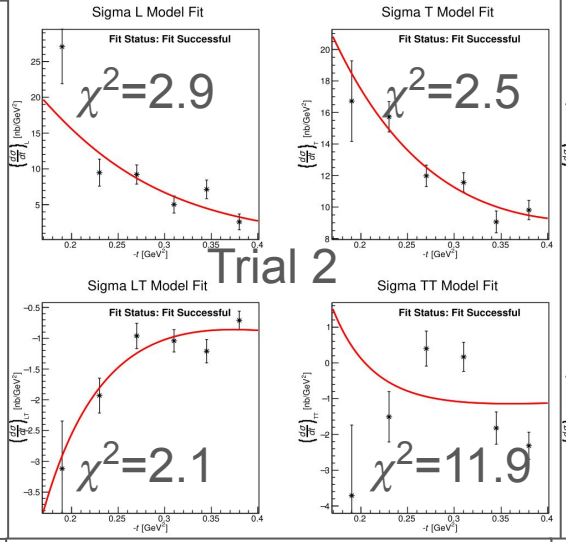


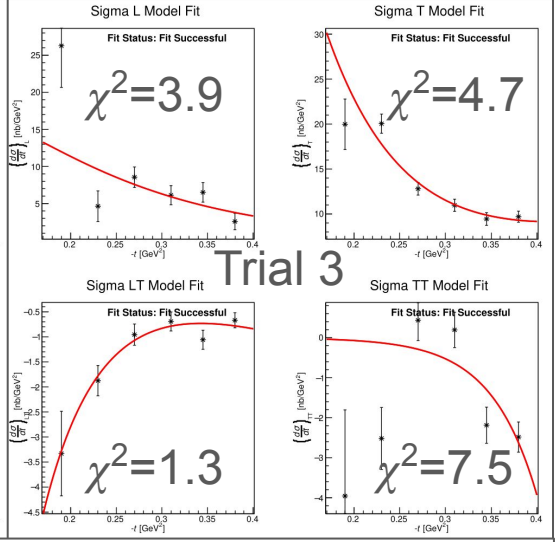


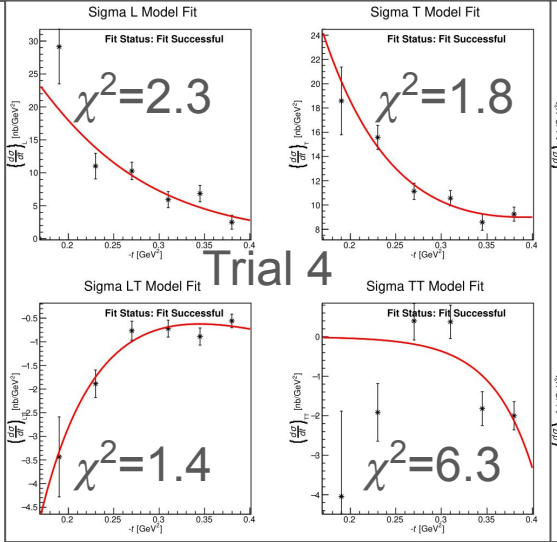


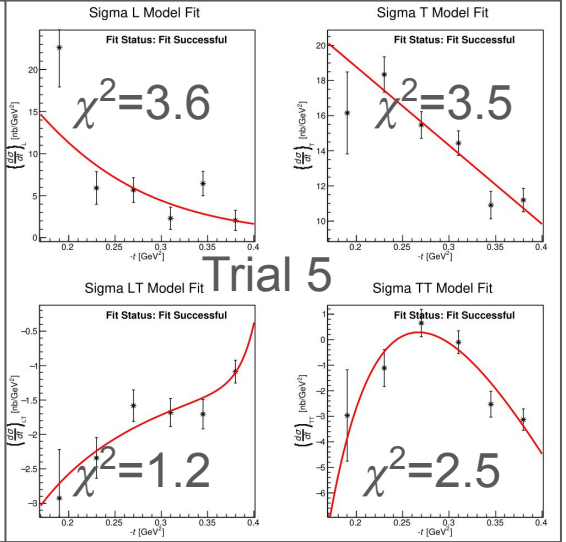
i=5


Sigma L Model Fit
Fit Status: Fit Successful
χ^2=2.8
Sigma T Model Fit
Fit Status: Fit Successful
χ^2=2.3
Trial 1
Sigma LT Model Fit
Fit Status: Fit Successful
χ^2=1.5
Sigma TT Model Fit
Fit Status: Fit Successful
χ^2=5.7


Sigma L Model Fit
Fit Status: Fit Successful
χ^2=2.9
Sigma T Model Fit
Fit Status: Fit Successful
χ^2=2.5
Trial 2
Sigma LT Model Fit
Fit Status: Fit Successful
χ^2=2.1
Sigma TT Model Fit
Fit Status: Fit Successful
χ^2=11.9


Sigma L Model Fit
Fit Status: Fit Successful
χ^2=3.9
Sigma T Model Fit
Fit Status: Fit Successful
χ^2=4.7
Trial 3
Sigma LT Model Fit
Fit Status: Fit Successful
χ^2=1.3
Sigma TT Model Fit
Fit Status: Fit Successful
χ^2=7.5


Sigma L Model Fit
Fit Status: Fit Successful
χ^2=2.3
Sigma T Model Fit
Fit Status: Fit Successful
χ^2=1.8
Trial 4
Sigma LT Model Fit
Fit Status: Fit Successful
χ^2=1.4
Sigma TT Model Fit
Fit Status: Fit Successful
χ^2=6.3


Sigma L Model Fit
Fit Status: Fit Successful
χ^2=3.6
Sigma T Model Fit
Fit Status: Fit Successful
χ^2=3.5
Trial 5
Sigma LT Model Fit
Fit Status: Fit Successful
χ^2=1.2
Sigma TT Model Fit
Fit Status: Fit Successful
χ^2=2.5

i=5