KaonLT Meeting

July 11th, 2024

Richard Trotta

$$\sigma_L = (p_1 + p_2 \log Q^2) e^{p_3|-t|}$$

$$\sigma_T = (p_5(\frac{|-t|}{Q^2} - 1)) e^{p_6|-t|}$$

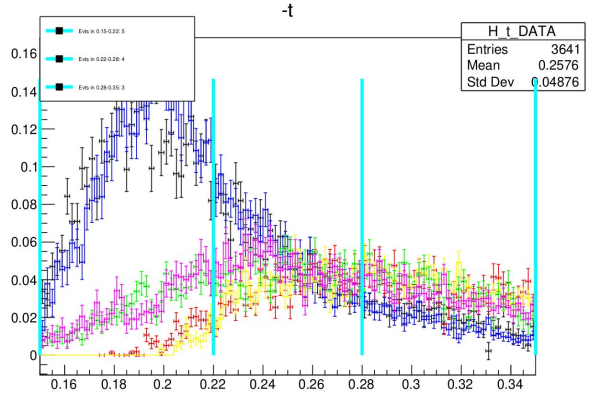
[5.5]

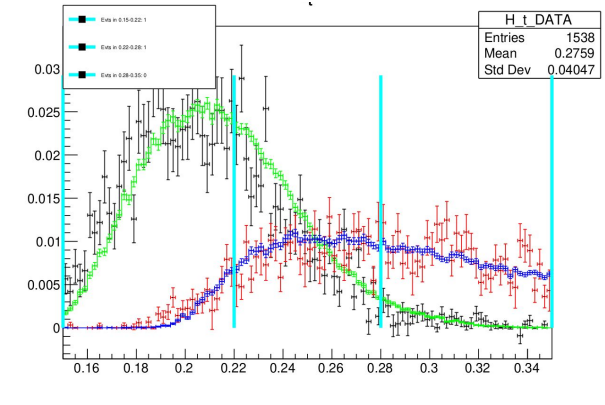
arXiv:1412.5140v1 [nucl-ex] 16 Dec 2014

$$\sigma_{\mathrm{LT}} = g(W) \cdot (\mathrm{p9} e^{\mathrm{p10} \cdot |-t|} + \frac{\mathrm{p11}}{|-t|}) \cdot \sin\theta_{CM}. \qquad [5.6]$$

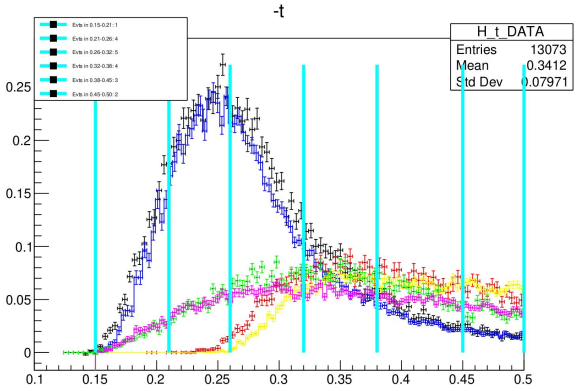
$$\sigma_{\mathrm{TT}} = g(W) \cdot (f(t) \cdot \frac{\mathrm{p12}}{Q^2} e^{-Q^2}) \cdot \sin^2\theta_{CM}, \qquad [5.7]$$

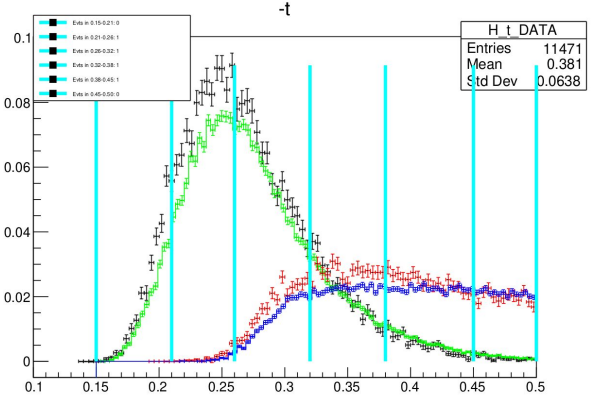
Q^2=2.115, W=2.95



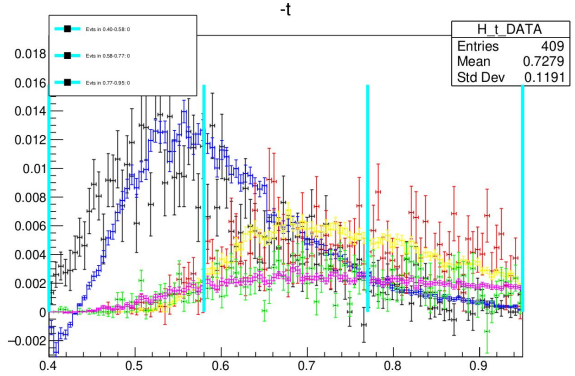


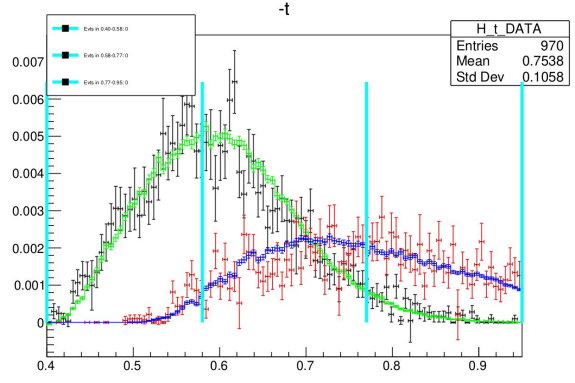
Q^2=3.0, W=3.14





Q^2=5.5, W=3.02





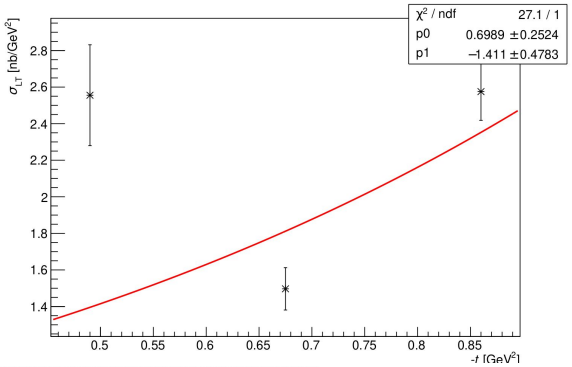
Q^2=5.5, W=3.02

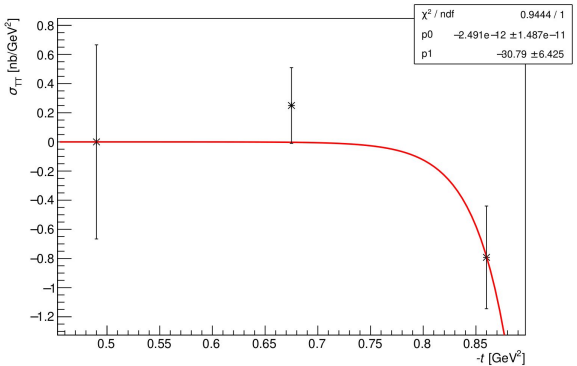
t=0.4-0.95

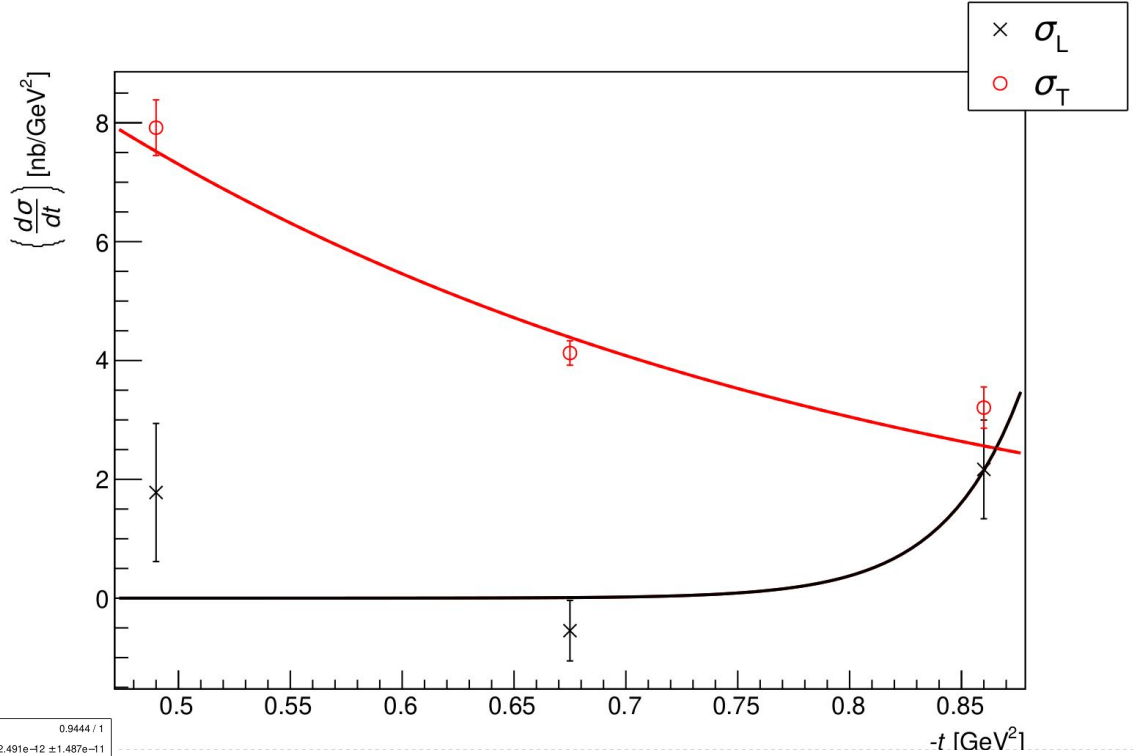
*****1 iteration**

$$\sigma_L = (p_1 + p_2 \log Q^2) e^{p_3|-t|}$$

$$\sigma_T = (p_5(\frac{|-t|}{Q^2} - 1)) e^{p_6|-t|}$$







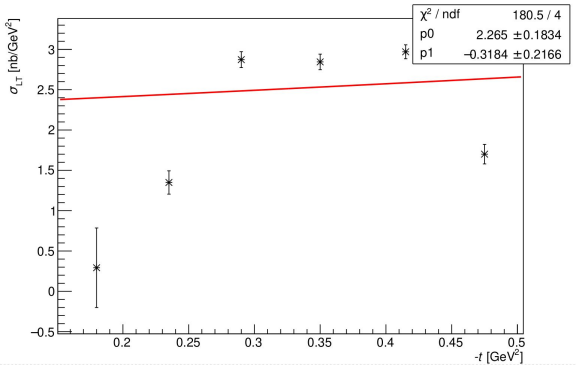
Q^2=3.0, W=3.14

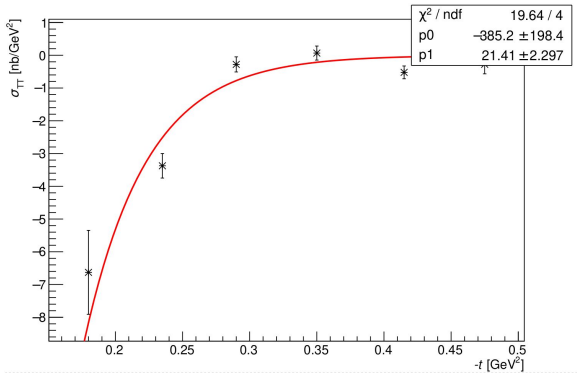
t=0.15-0.5

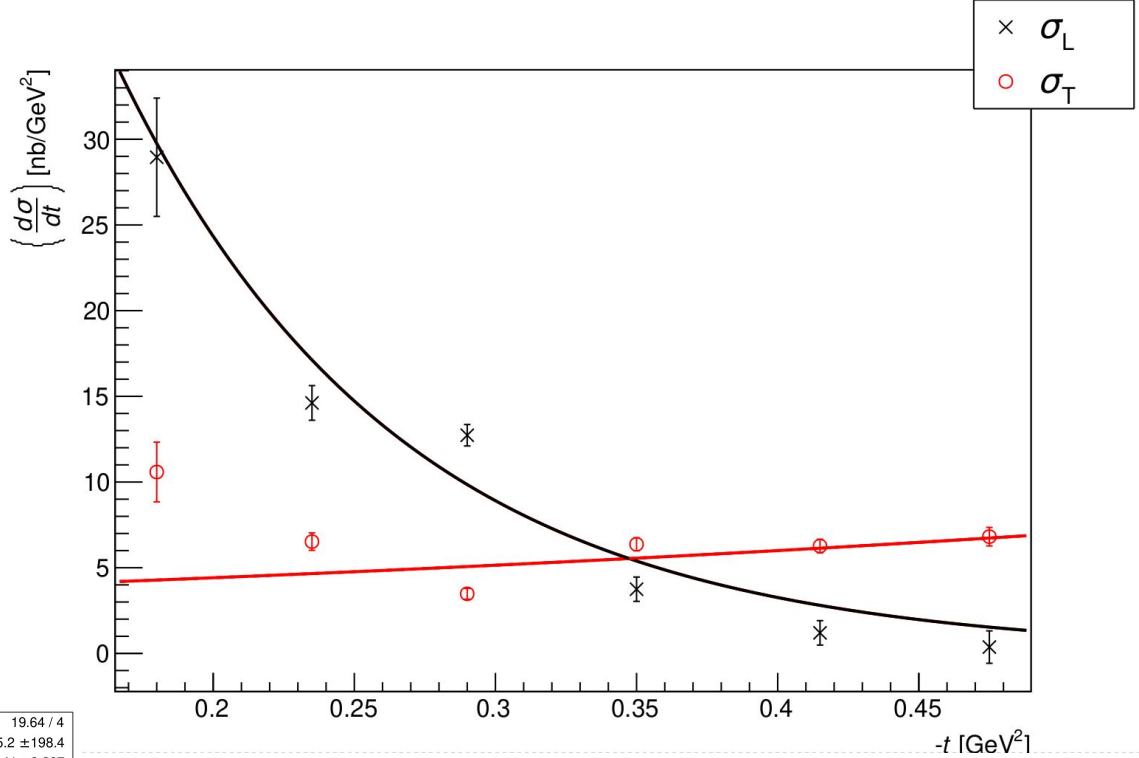
*****1 iteration**

$$\sigma_L = (p_1 + p_2 \log Q^2) e^{p_3|-t|}$$

$$\sigma_T = (p_5(\frac{|-t|}{Q^2} - 1)) e^{p_6|-t|}$$







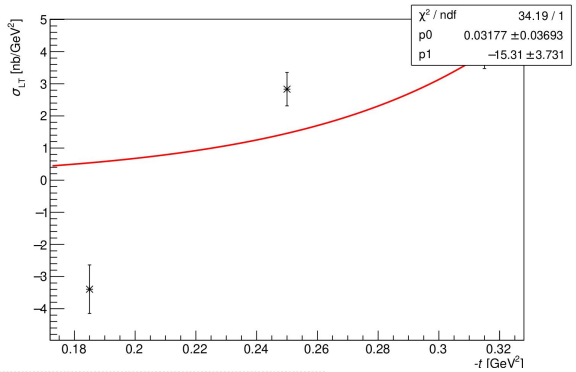
Q^2=2.115, W=2.95

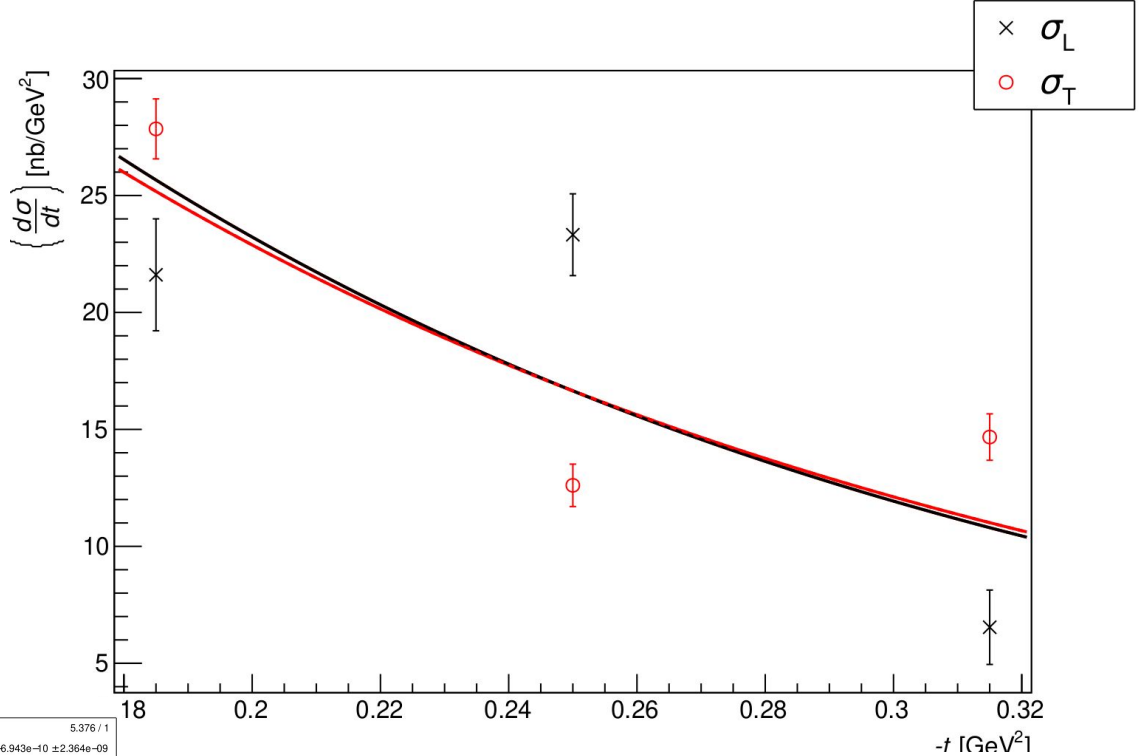
t=0.15-0.35

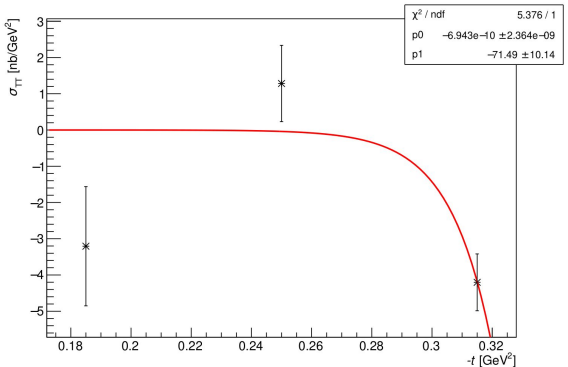
*****1 iteration**

$$\sigma_L = (p_1 + p_2 \log Q^2) e^{p_3|-t|}$$

$$\sigma_T = (p_5(\frac{|-t|}{Q^2} - 1)) e^{p_6|-t|}$$

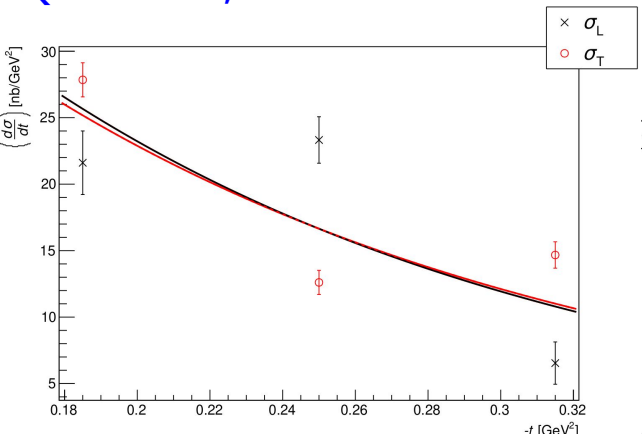




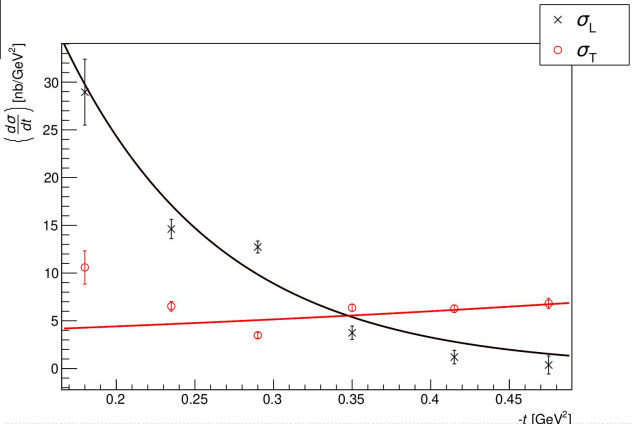


$$\sigma_L = (p_1 + p_2 \log Q^2) e^{p_3|-t|} \qquad \sigma_T = (p_5(\frac{|-t|}{Q^2} - 1)) e^{p_6|-t|}$$

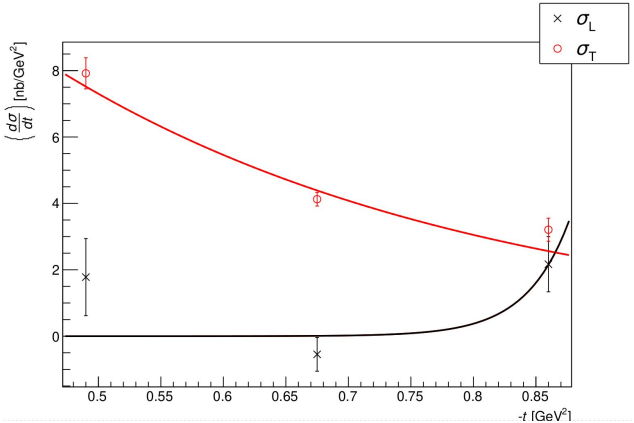
Q^2=2.115, W=2.95

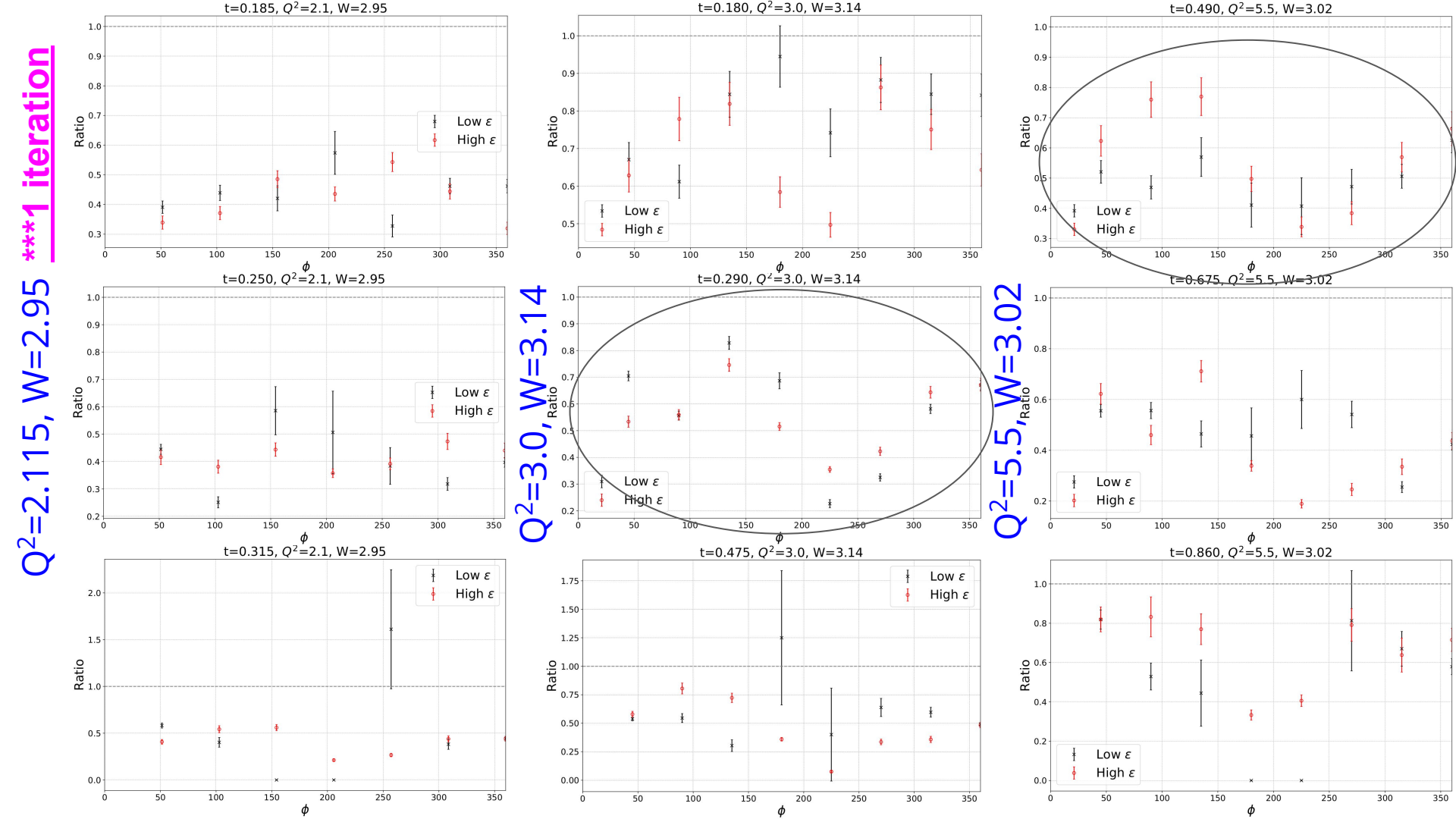


Q^2=3.0, W=3.14



Q^2=5.5, W=3.02




***1 iteration
Q²=2.115, W=2.95
Q²=3.0, W=3.14
Q²=5.5, W=3.02
t=0.185, Q²=2.1, W=2.95
t=0.180, Q²=3.0, W=3.14
t=0.490, Q²=5.5, W=3.02
t=0.250, Q²=2.1, W=2.95
t=0.290, Q²=3.0, W=3.14
t=0.675, Q²=5.5, W=3.02
t=0.315, Q²=2.1, W=2.95
t=0.475, Q²=3.0, W=3.14
t=0.860, Q²=5.5, W=3.02
Ratio
ϕ
Low ε
High ε