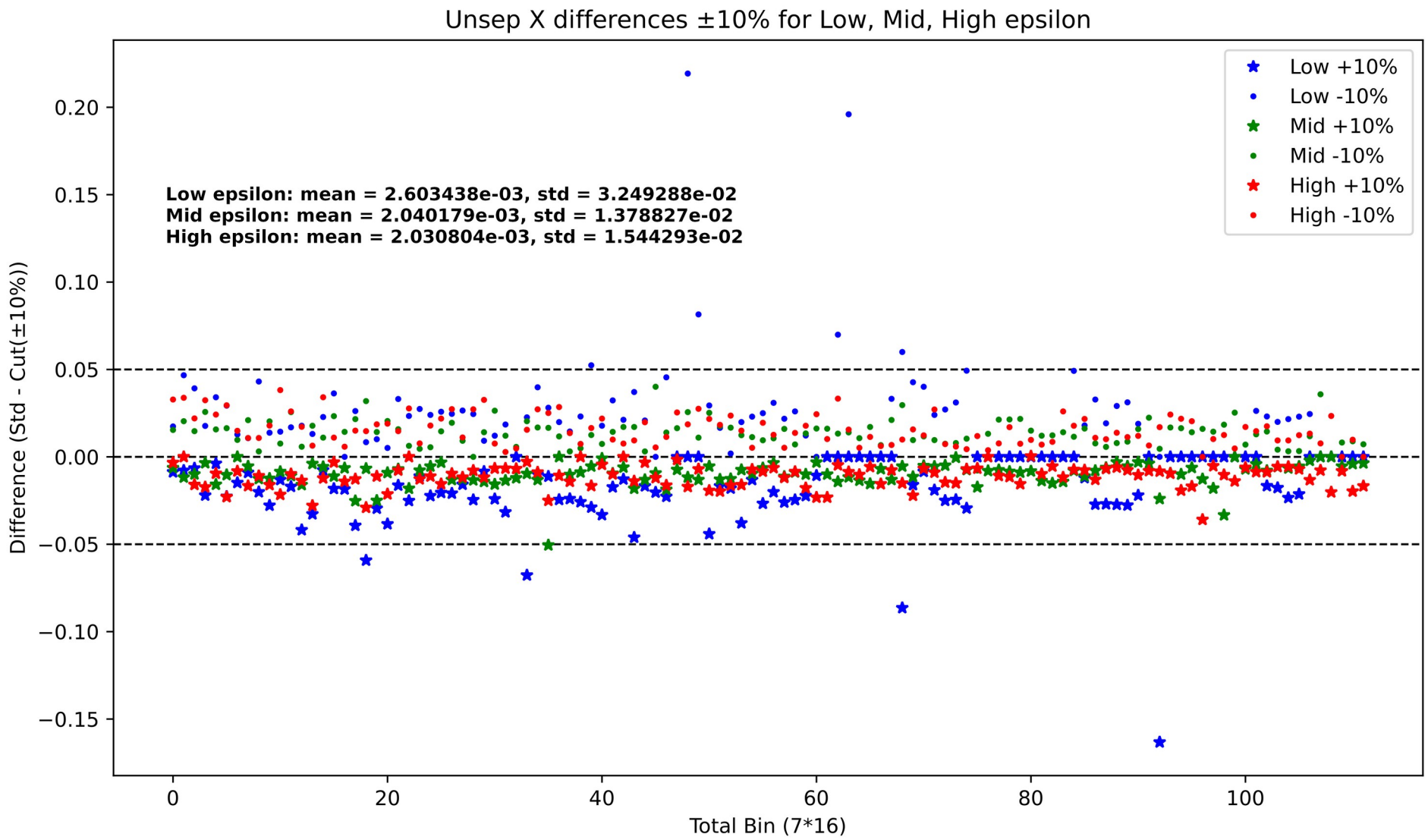
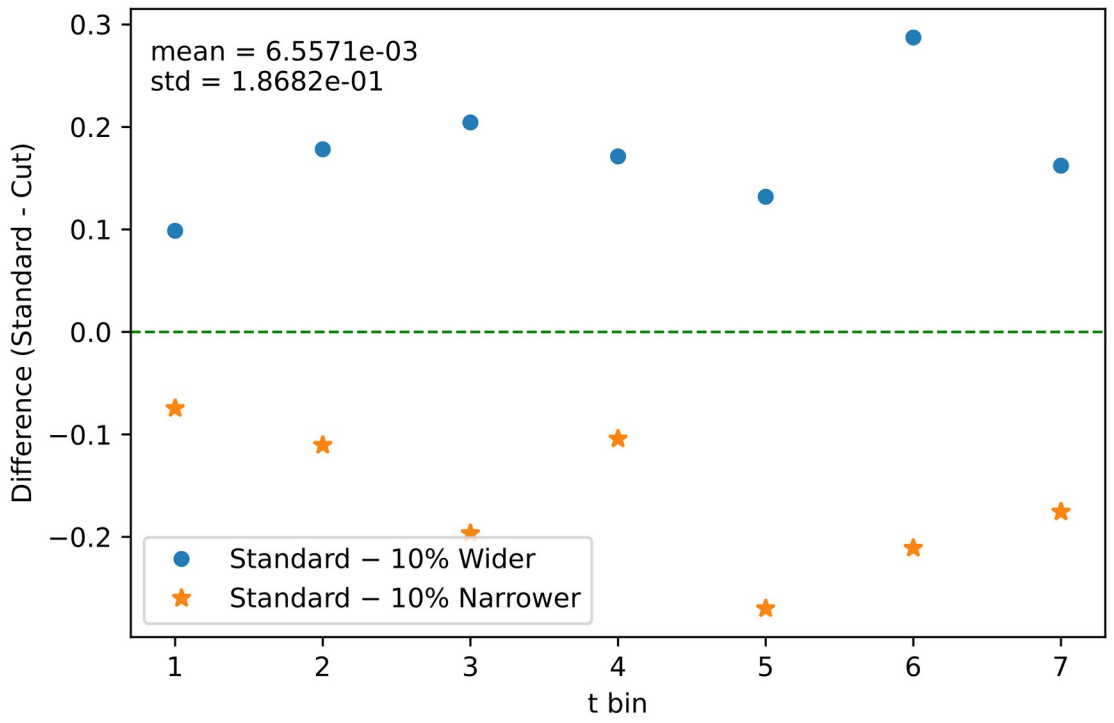
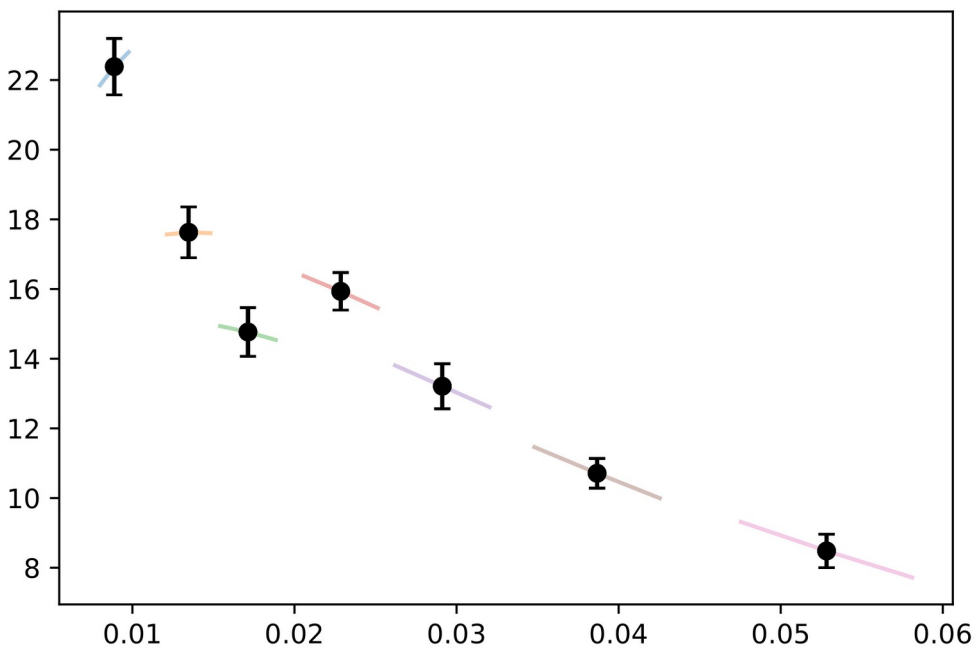
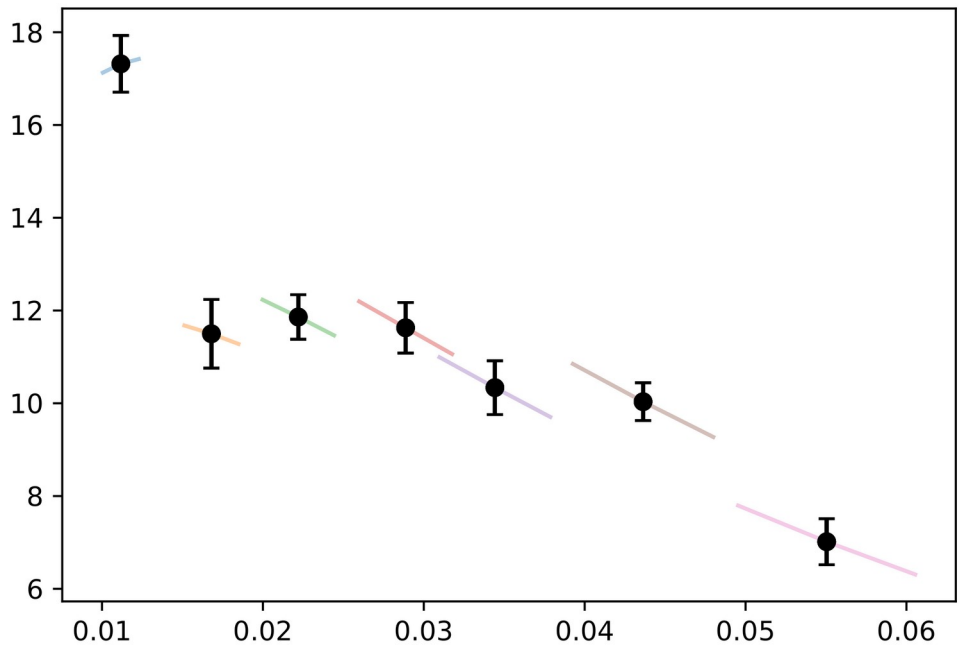
PionLT Summer 2019 data analysis:

Systematic Uncertainties:




mean = 6.5571e-03
std = 1.8682e-01
Difference (Standard - Cut)
0.3
0.2
0.1
0.0
−0.1
−0.2
Standard − 10% Wider
Standard − 10% Narrower
1
2
3
4
5
6
7
t bin


22
20
18
16
14
12
10
8
0.01
0.02
0.03
0.04
0.05
0.06


18
16
14
12
10
8
6
0.01
0.02
0.03
0.04
0.05
0.06

$Q^2 = 0.375\ GeV^2$

Set 1, t-bin 1: Fpi = 0.6109 +0.0138 -0.0215, g1 = 1.2000 +0.0000 -0.2000, corr = 0.17

Set 1, t-bin 2: Fpi = 0.5231 +0.0184 -0.0170, g1 = 1.1016 +0.0984 -0.1016, corr = 0.21

Set 1, t-bin 3: Fpi = 0.4844 +0.0166 -0.0188, g1 = 1.1324 +0.0676 -0.1324, corr = 0.23

Set 1, t-bin 4: Fpi = 0.5163 +0.0100 -0.0178, g1 = 1.2000 +0.0000 -0.2000, corr = 0.35

Set 1, t-bin 5: Fpi = 0.4923 +0.0163 -0.0216, g1 = 1.1262 +0.0738 -0.1262, corr = 0.30

Set 1, t-bin 6: Fpi = 0.4863 +0.0096 -0.0232, g1 = 1.2000 +0.0000 -0.2000, corr = 0.45

Set 1, t-bin 7: Fpi = 0.4850 +0.0186 -0.0244, g1 = 1.1320 +0.0680 -0.1320, corr = 0.44

$Q^2 = 0.425\ GeV^2$

Set 2, t-bin 1: Fpi = 0.4985 +0.0152 -0.0152, g1 = 1.1212 +0.0788 -0.1212, corr = 0.23

Set 2, t-bin 2: Fpi = 0.4121 +0.0157 -0.0121, g1 = 1.2000 +0.0000 -0.2000, corr = 0.12

Set 2, t-bin 3: Fpi = 0.4282 +0.0122 -0.0181, g1 = 1.1774 +0.0226 -0.1774, corr = 0.34

Set 2, t-bin 4: Fpi = 0.4459 +0.0122 -0.0232, g1 = 1.2000 +0.0000 -0.2000, corr = 0.35

Set 2, t-bin 5: Fpi = 0.4428 +0.0128 -0.0251, g1 = 1.2000 +0.0000 -0.2000, corr = 0.34

Set 2, t-bin 6: Fpi = 0.4669 +0.0089 -0.0214, g1 = 1.2000 +0.0000 -0.2000, corr = 0.49

Set 2, t-bin 7: Fpi = 0.4423 +0.0158 -0.0297, g1 = 1.2000 +0.0000 -0.2000, corr = 0.41

#Qs,Fpi,yerr_minus,yerr_plus

0.375, 0.50031,0.00830,0.00594

0.425,0.43688,0.00817,0.00568