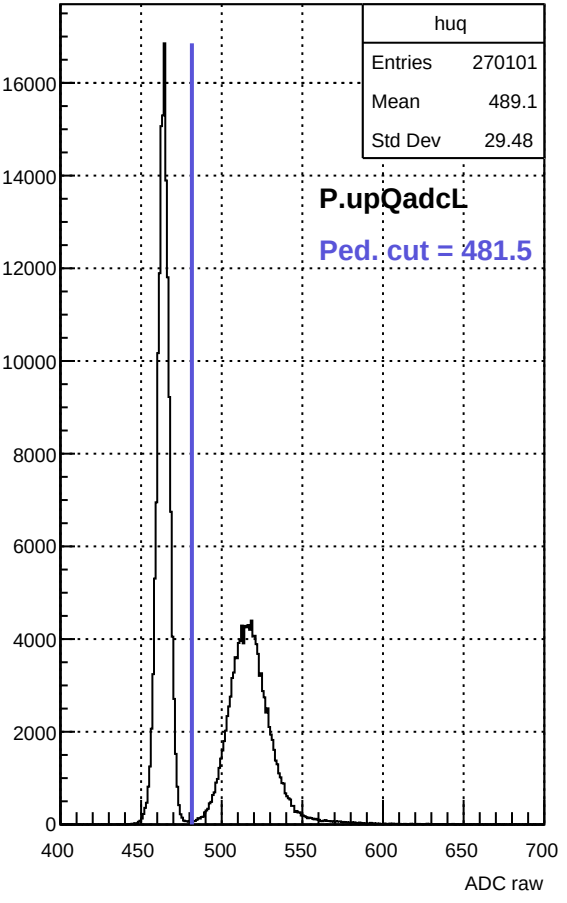
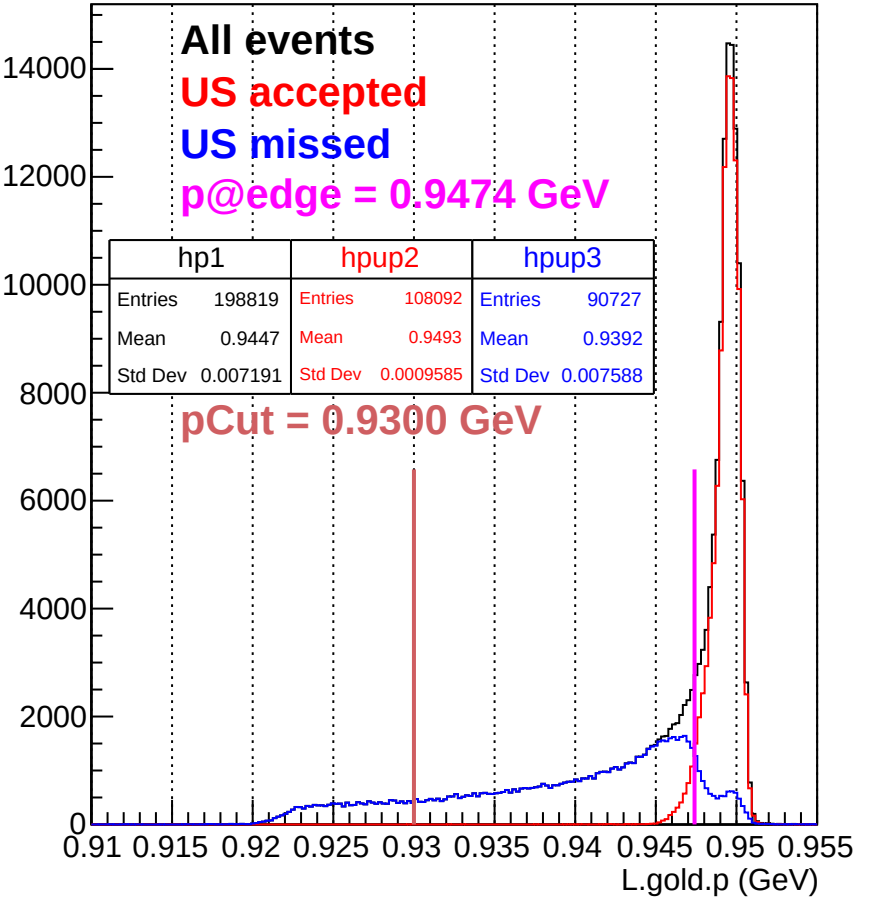
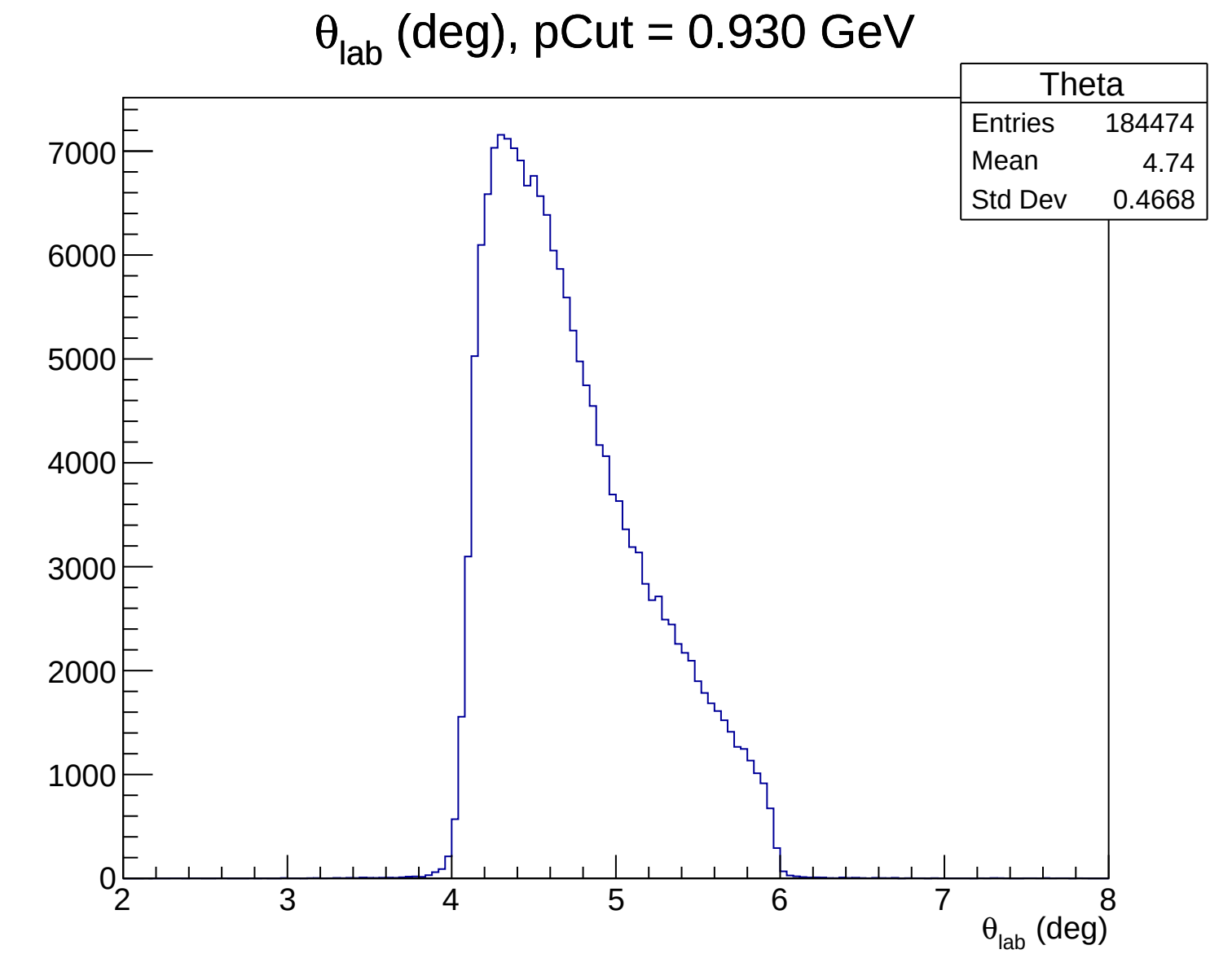
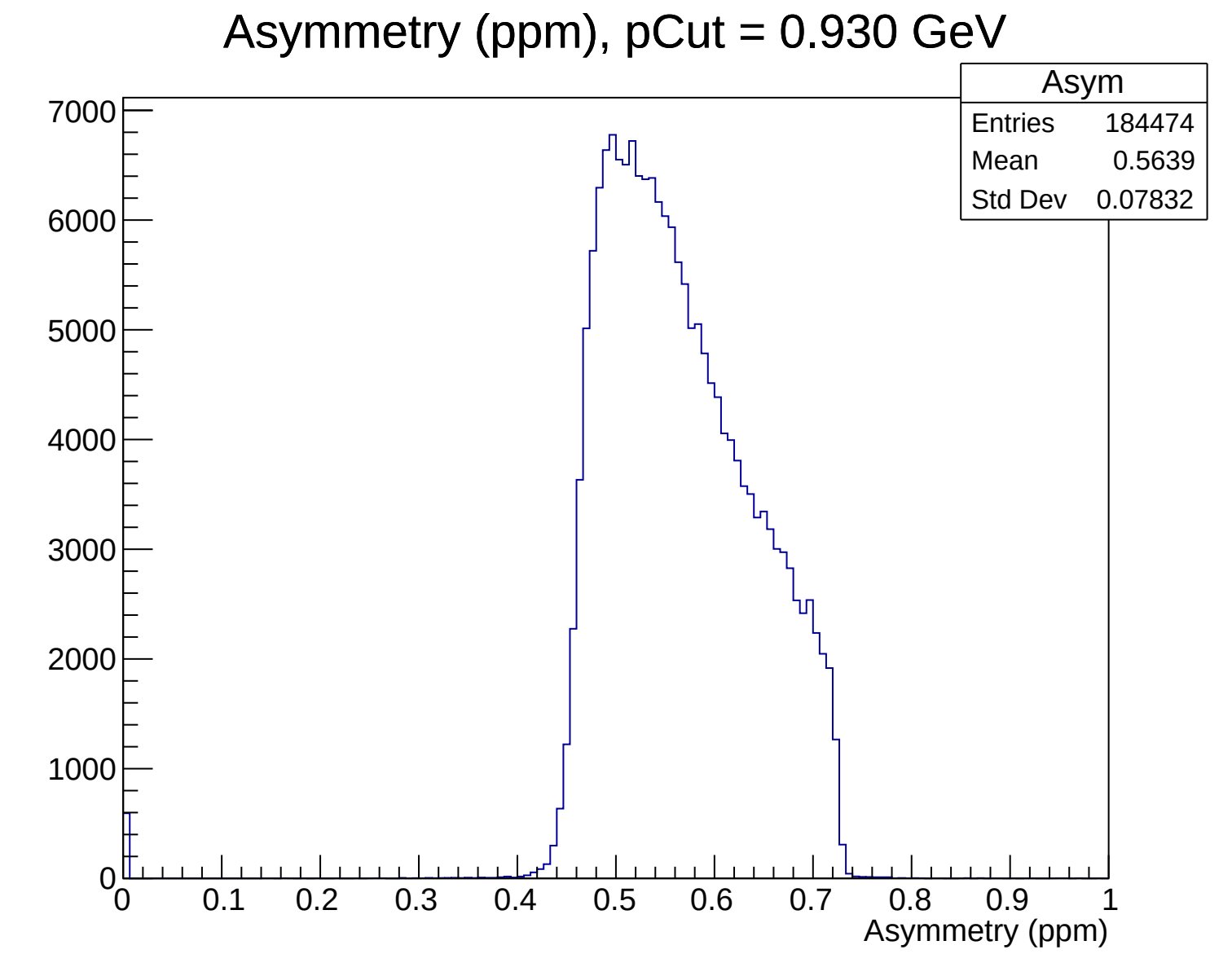
ADC raw (run2322, detZ = 1.3 m)

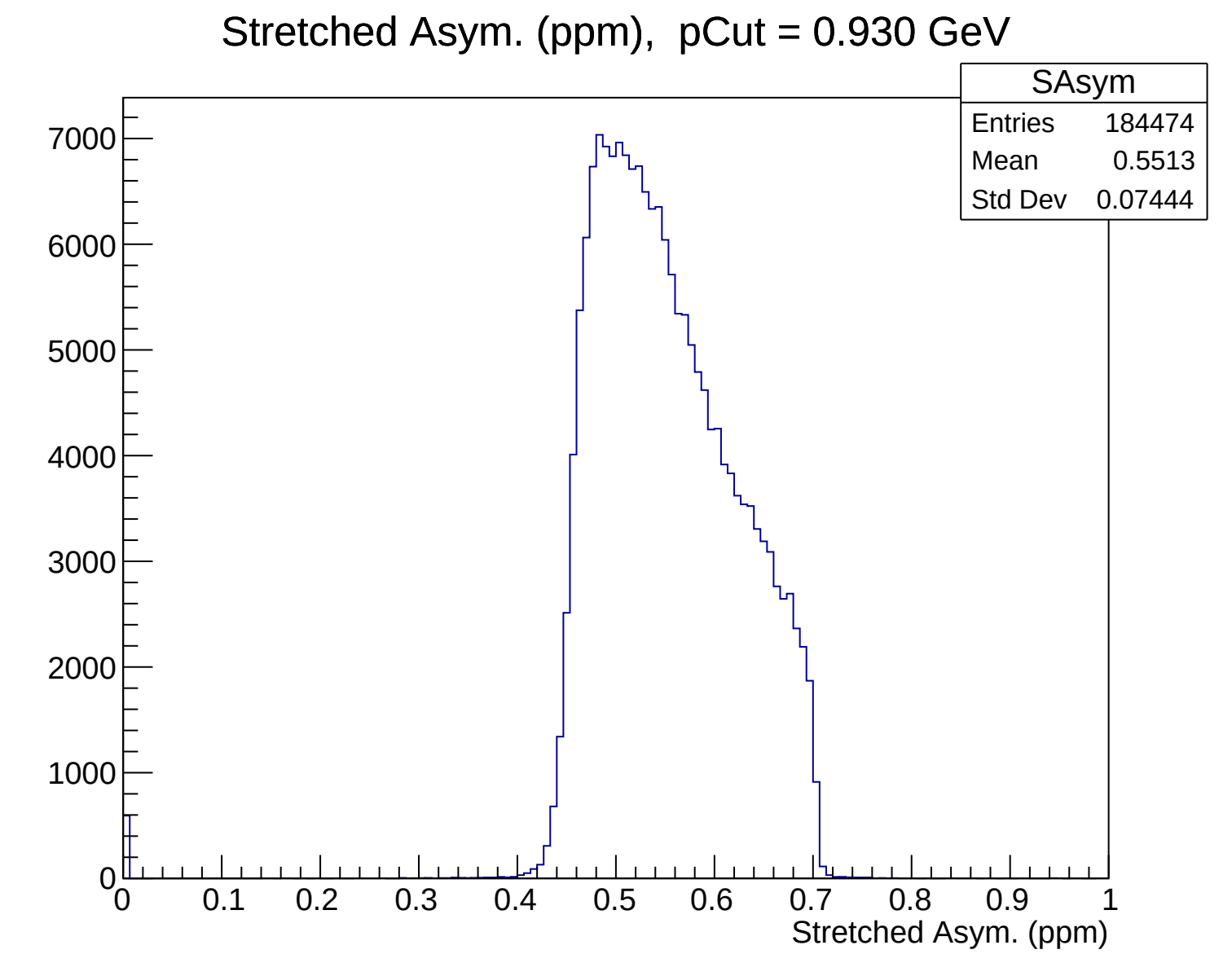


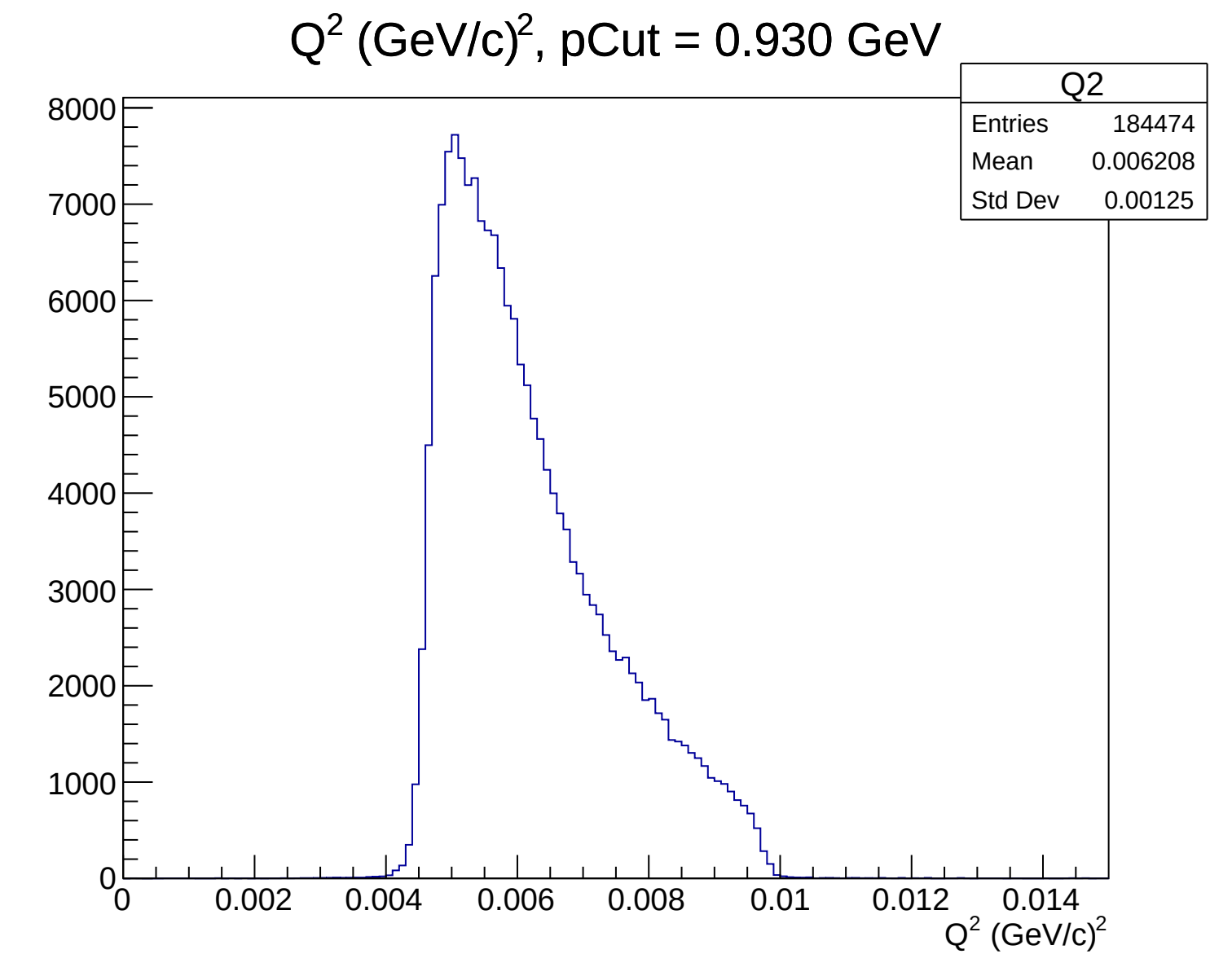

LHRS momentum run2322

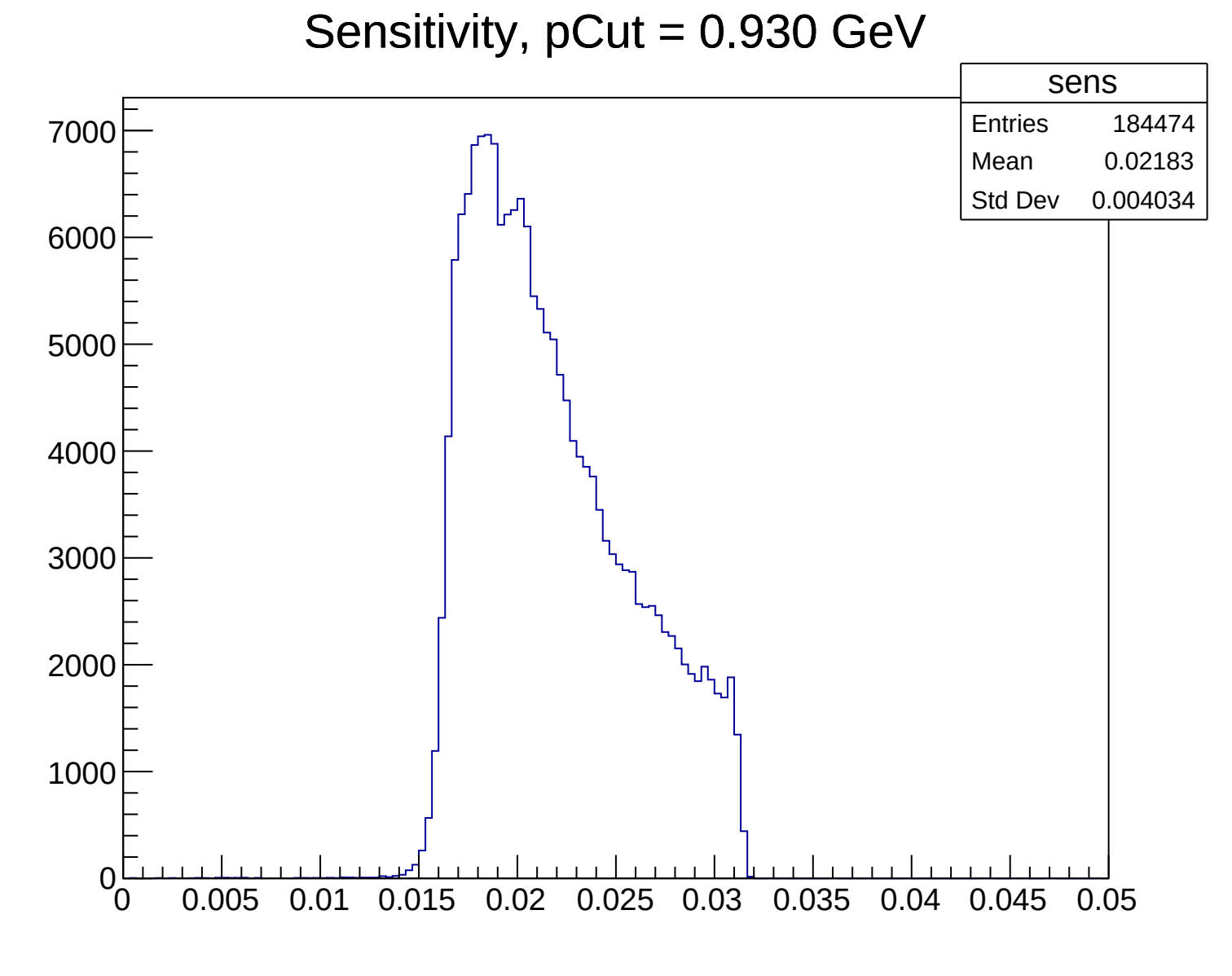



θlab (deg), pCut = 0.930 GeV
Theta
Entries 184474
Mean 4.74
Std Dev 0.4668
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

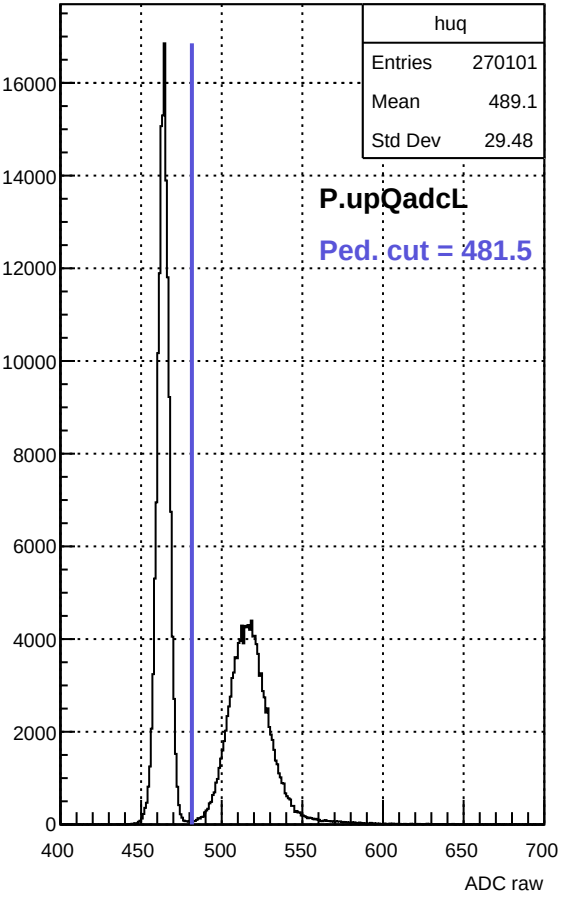

Asymmetry (ppm), pCut = 0.930 GeV
Asym
Entries 184474
Mean 0.5639
Std Dev 0.07832
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.930 GeV
SAsym
Entries 184474
Mean 0.5513
Std Dev 0.07444
7000
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

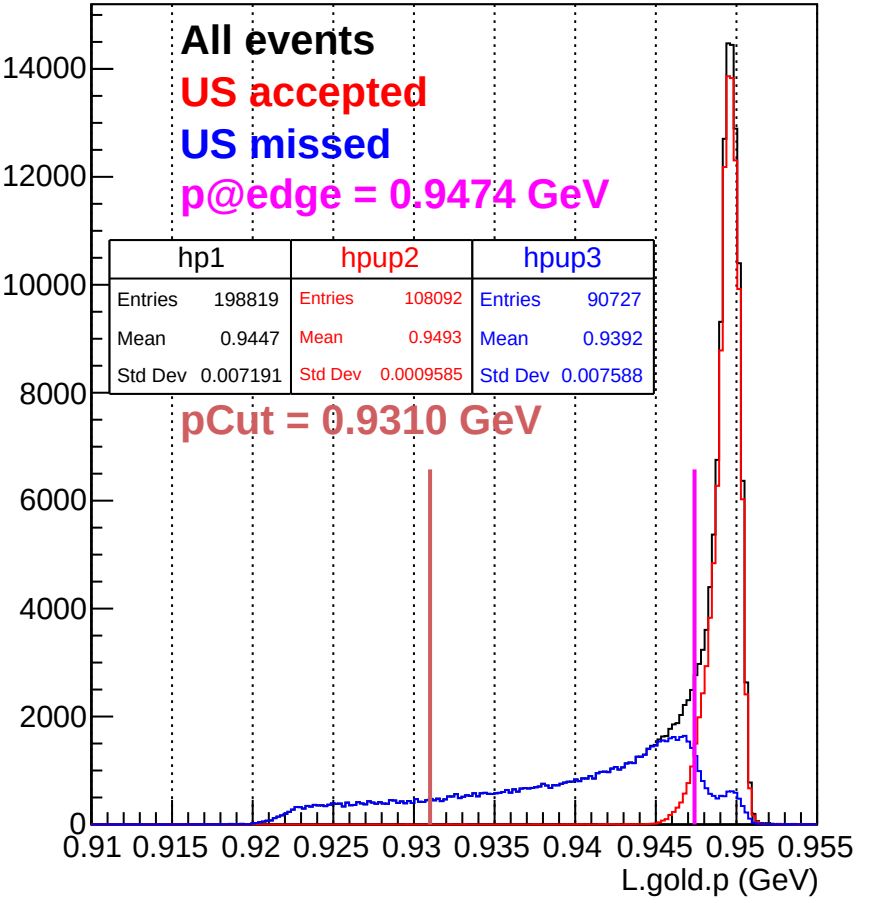

$Q^2$ (GeV/c)$^2$, pCut = 0.930 GeV
Q2
Entries 184474
Mean 0.006208
Std Dev 0.00125
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

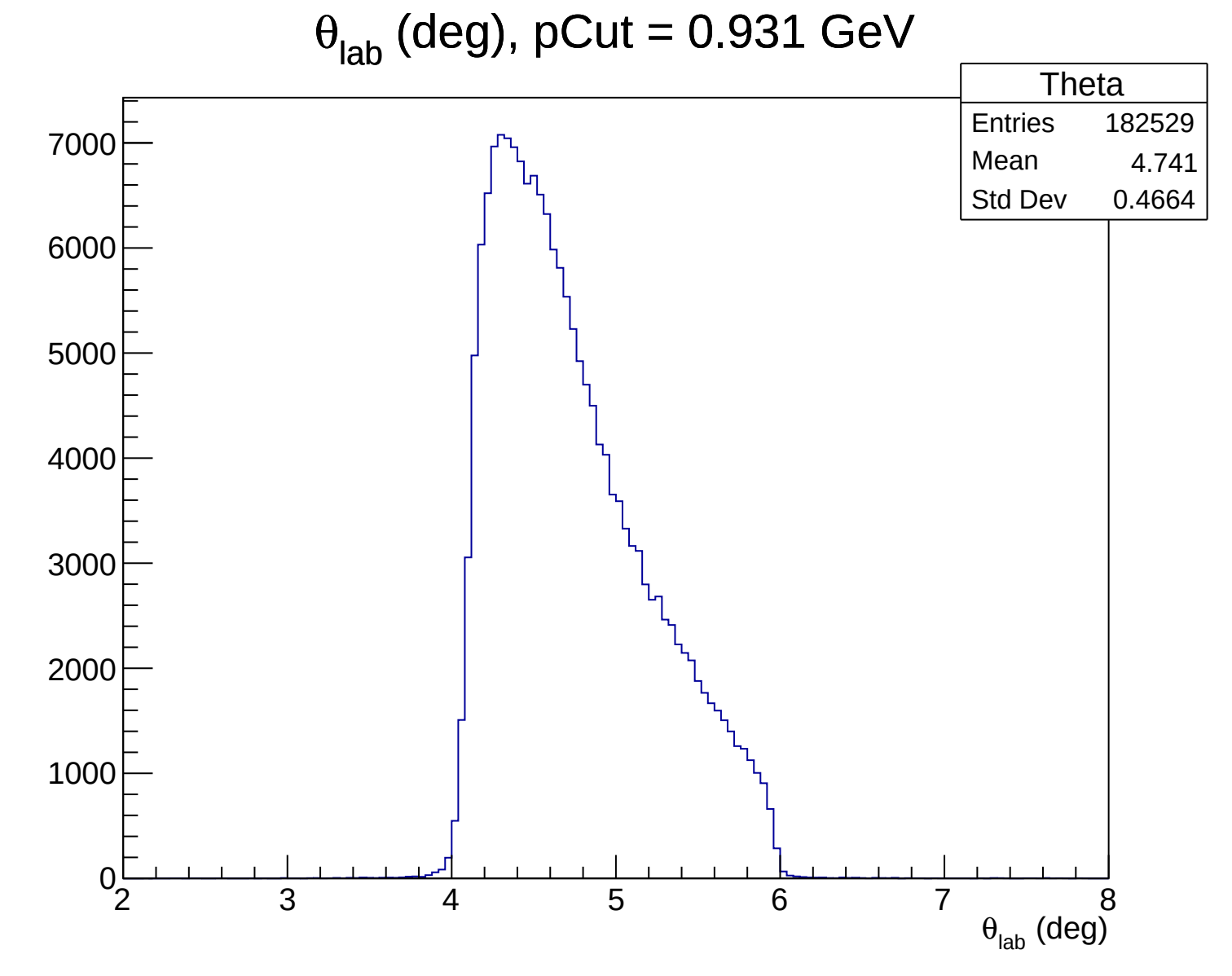

Sensitivity, pCut = 0.930 GeV
sens
Entries 184474
Mean 0.02183
Std Dev 0.004034
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

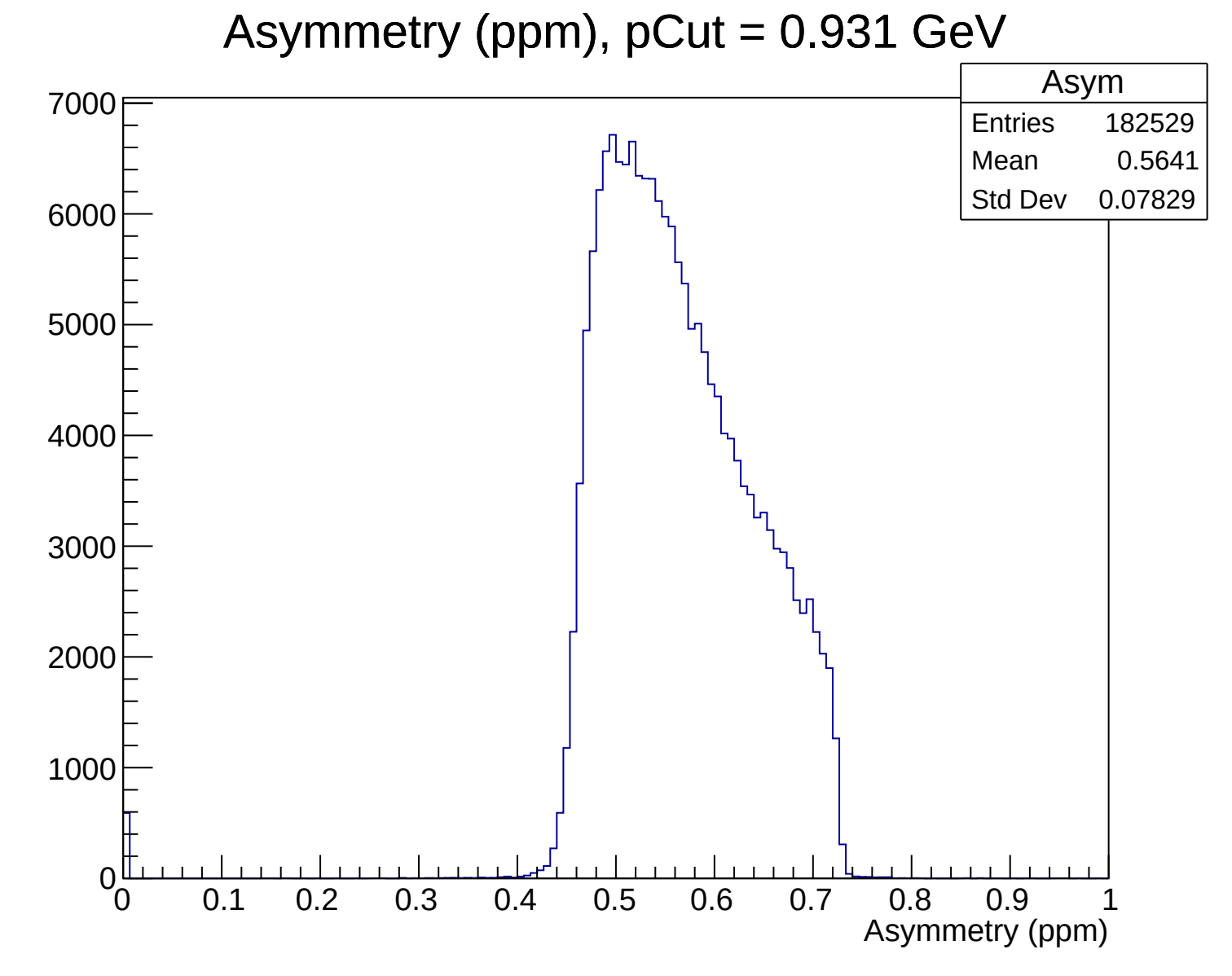
ADC raw (run2322, detZ = 1.3 m)

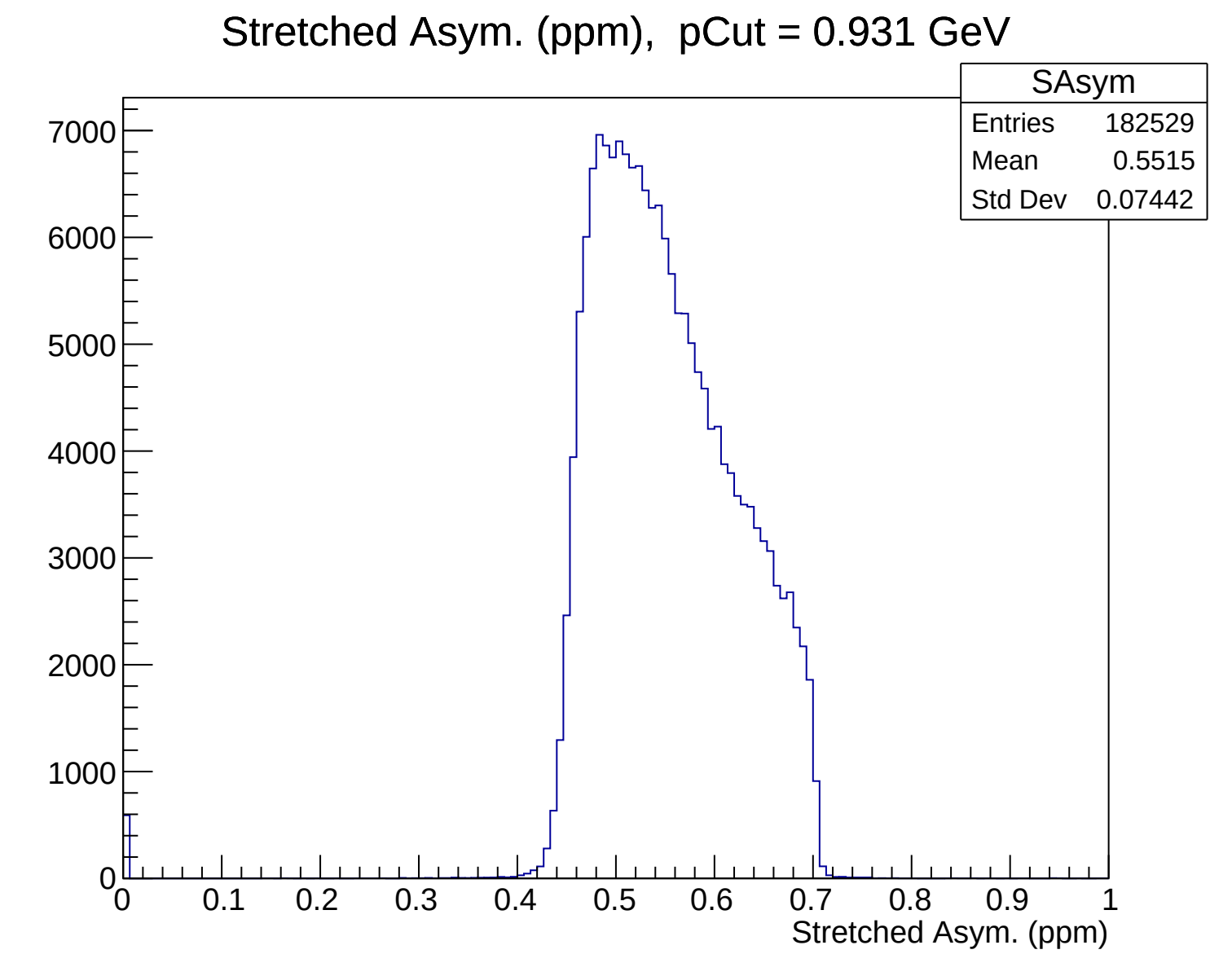


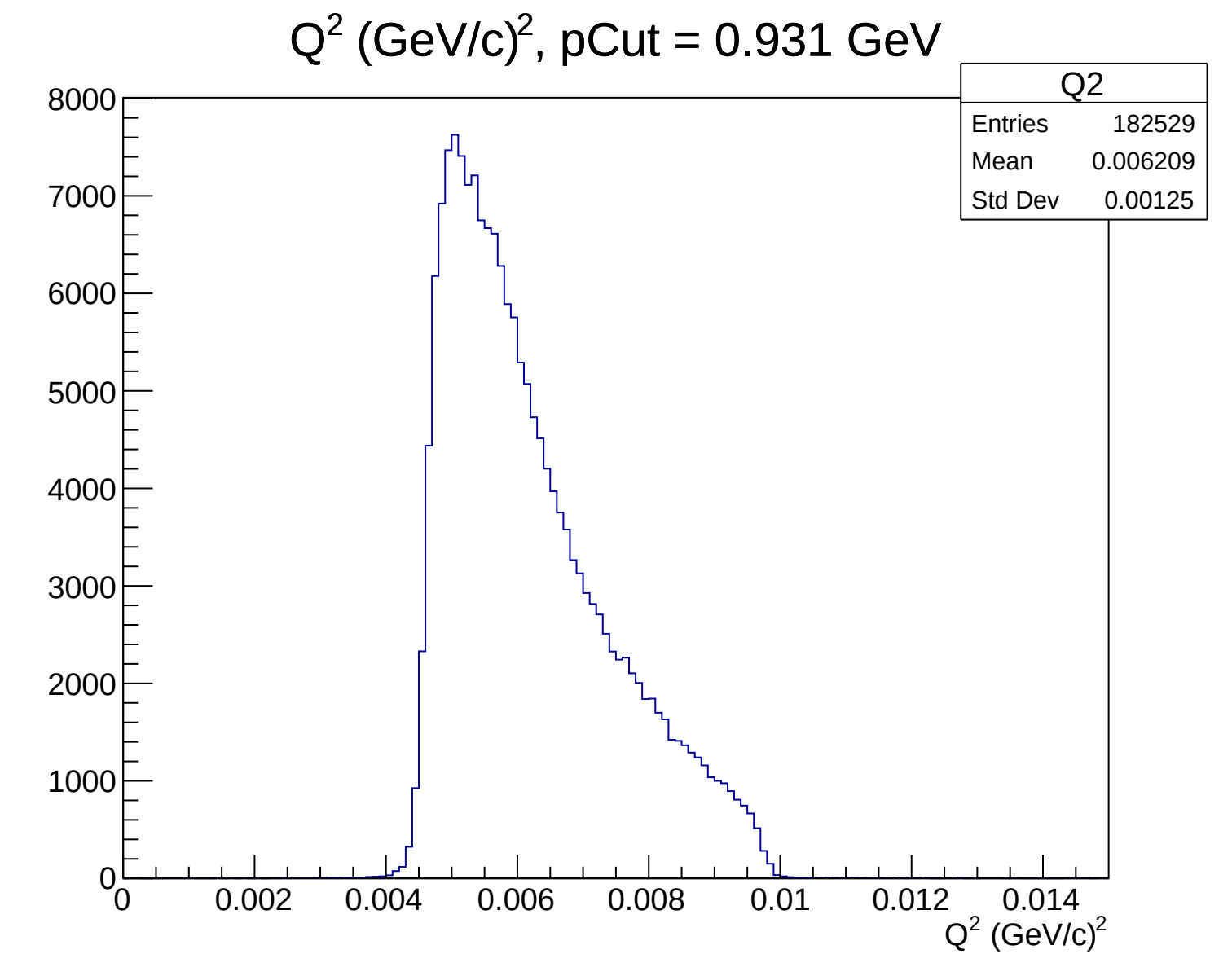

LHRS momentum run2322

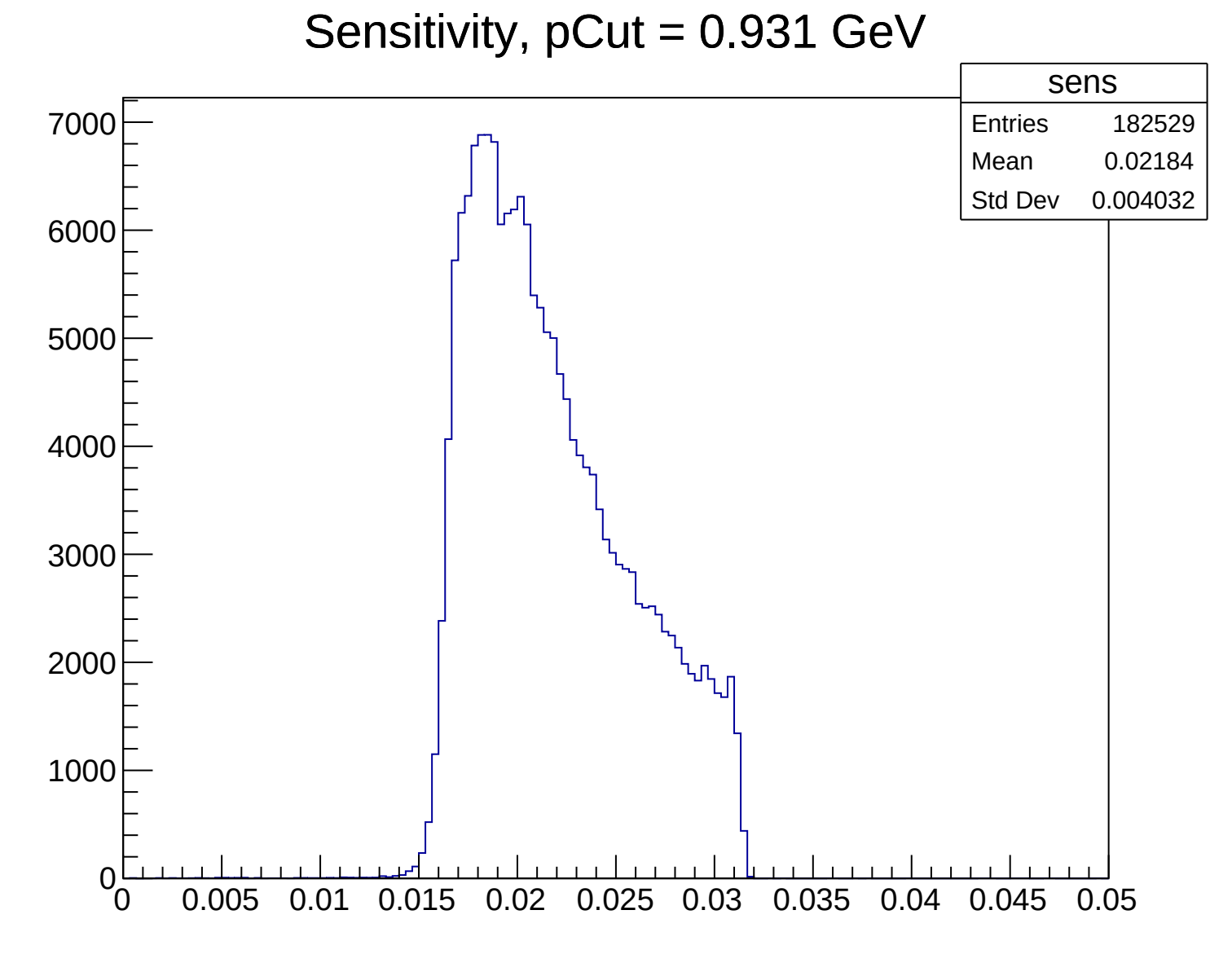



θlab (deg), pCut = 0.931 GeV
Theta
Entries 182529
Mean 4.741
Std Dev 0.4664
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

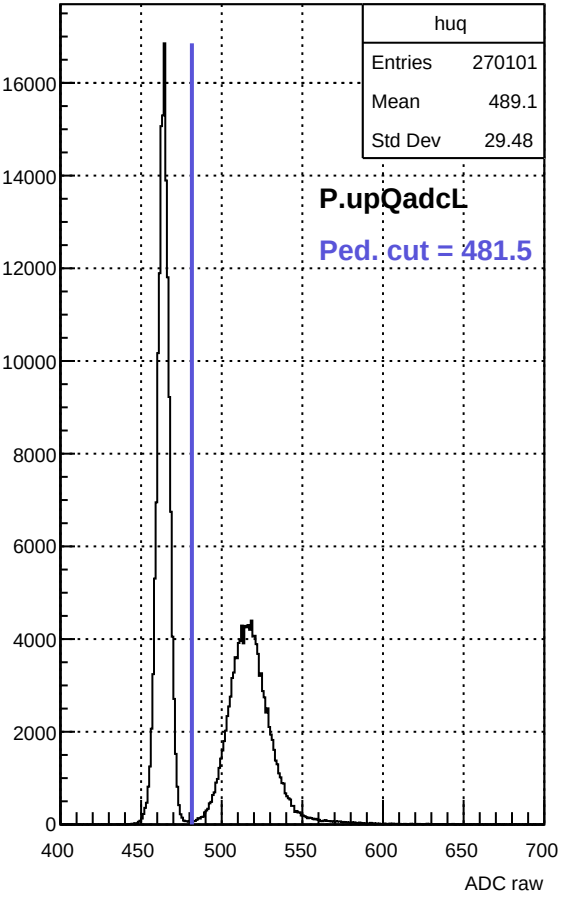

Asymmetry (ppm), pCut = 0.931 GeV
Asym
Entries 182529
Mean 0.5641
Std Dev 0.07829
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.931 GeV
SAsym
Entries 182529
Mean 0.5515
Std Dev 0.07442
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

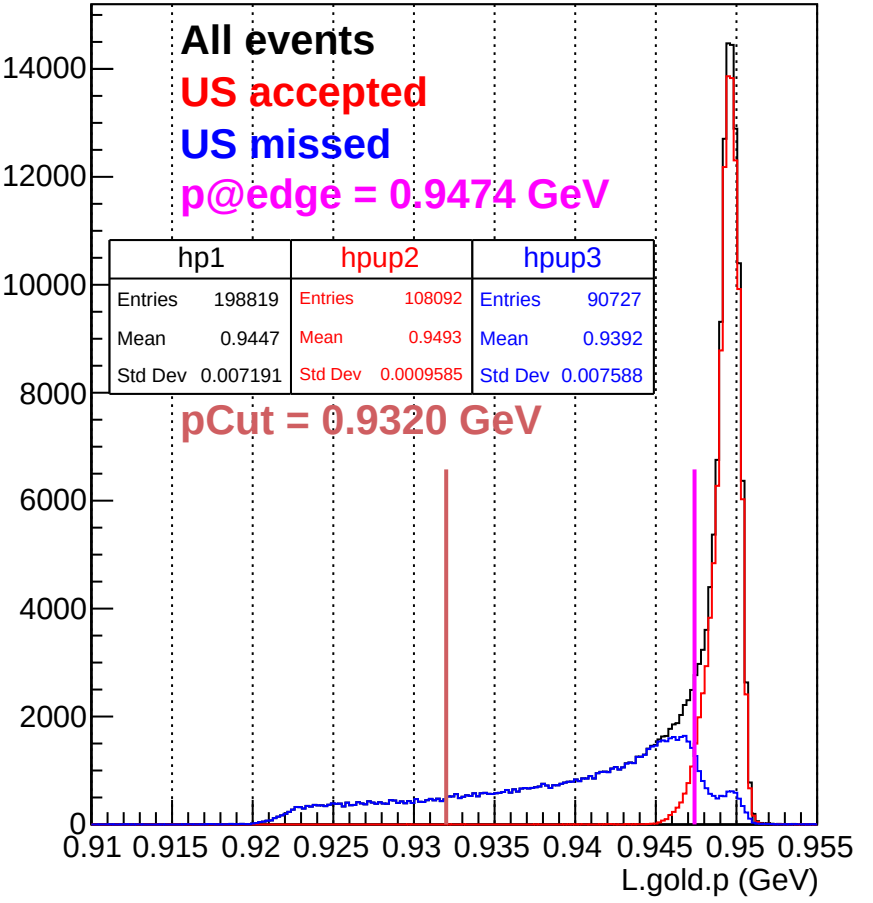

$Q^2$ (GeV/c)$^2$, pCut = 0.931 GeV
Q2
Entries 182529
Mean 0.006209
Std Dev 0.00125
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

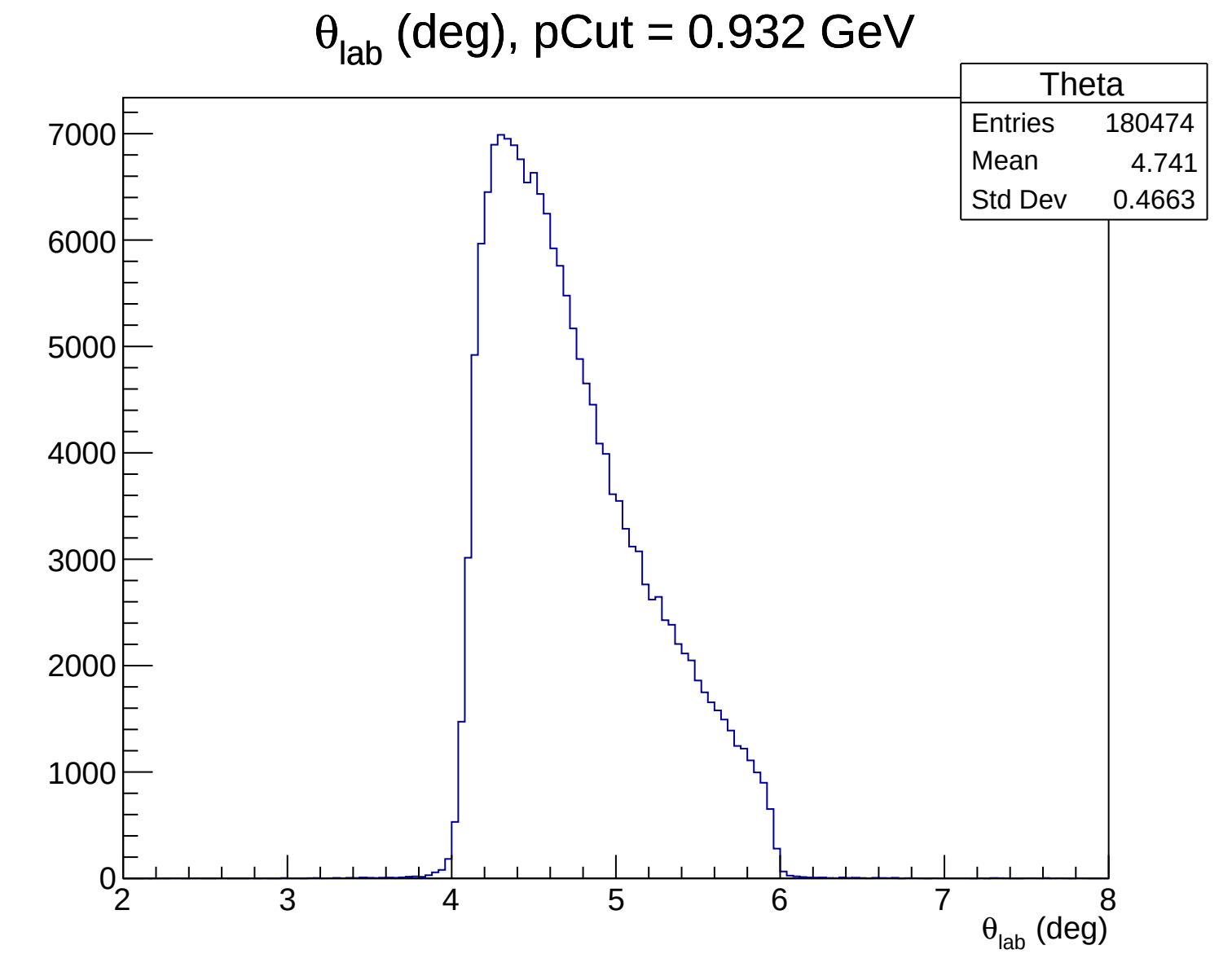

Sensitivity, pCut = 0.931 GeV
sens
Entries 182529
Mean 0.02184
Std Dev 0.004032
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

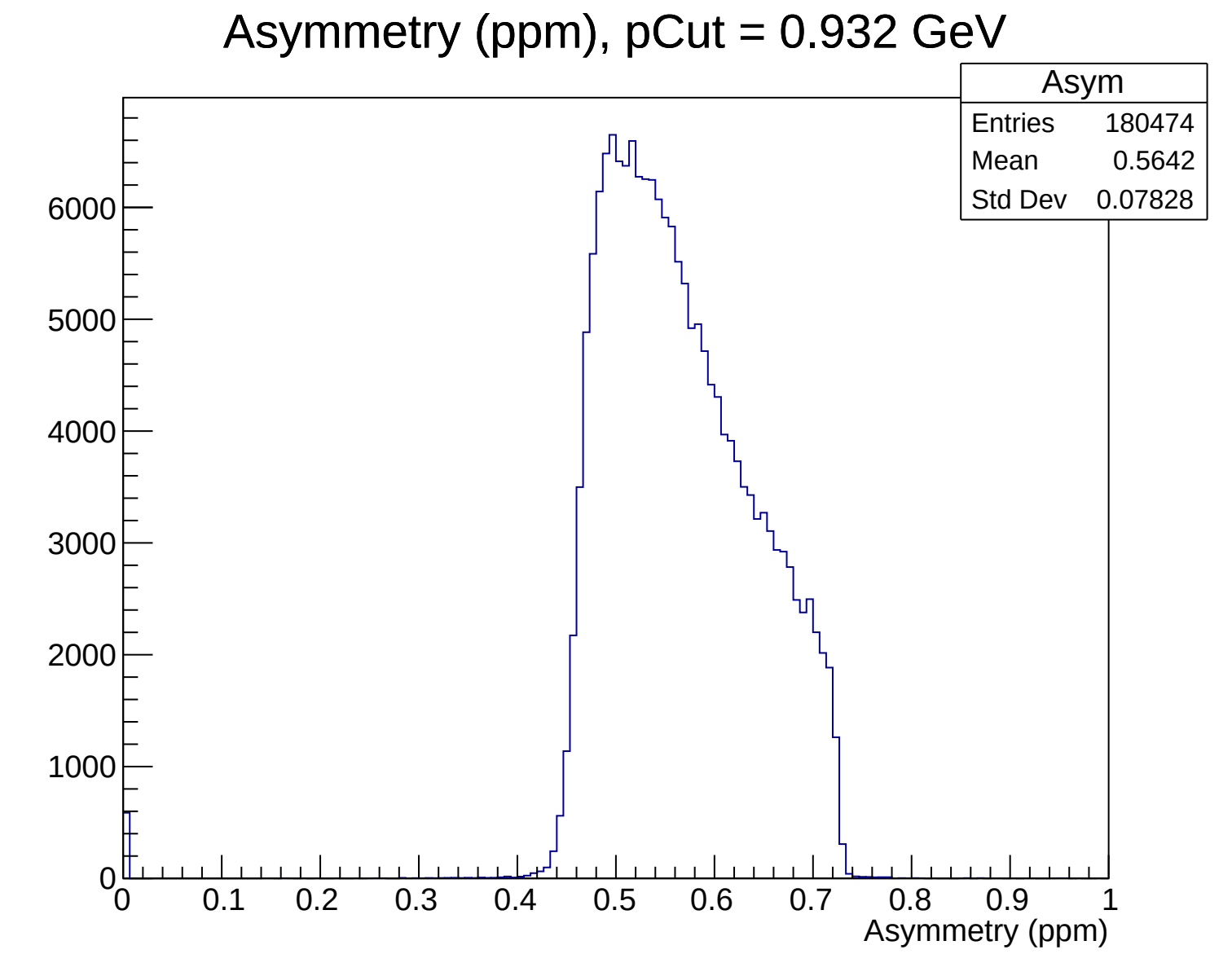
ADC raw (run2322, detZ = 1.3 m)

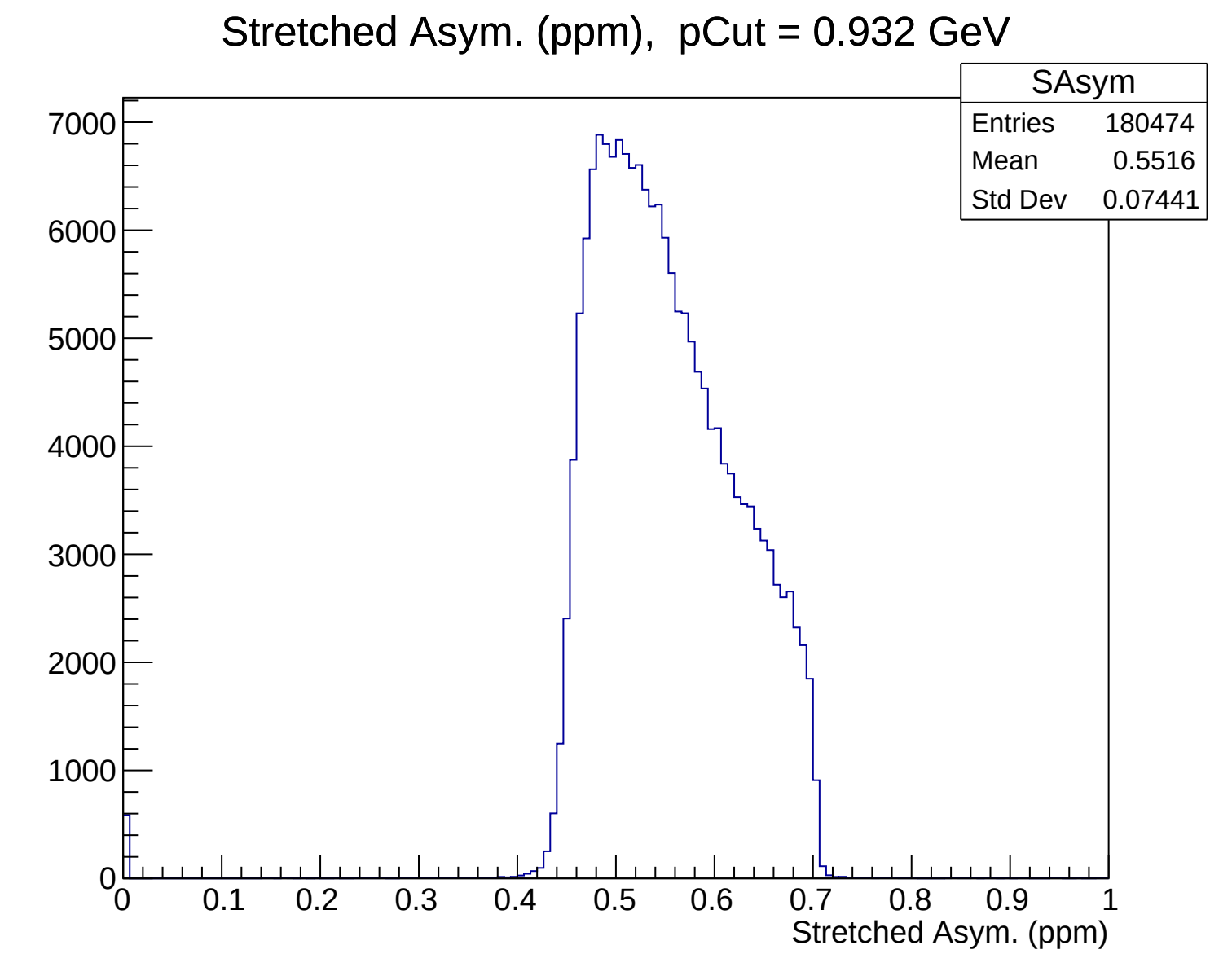


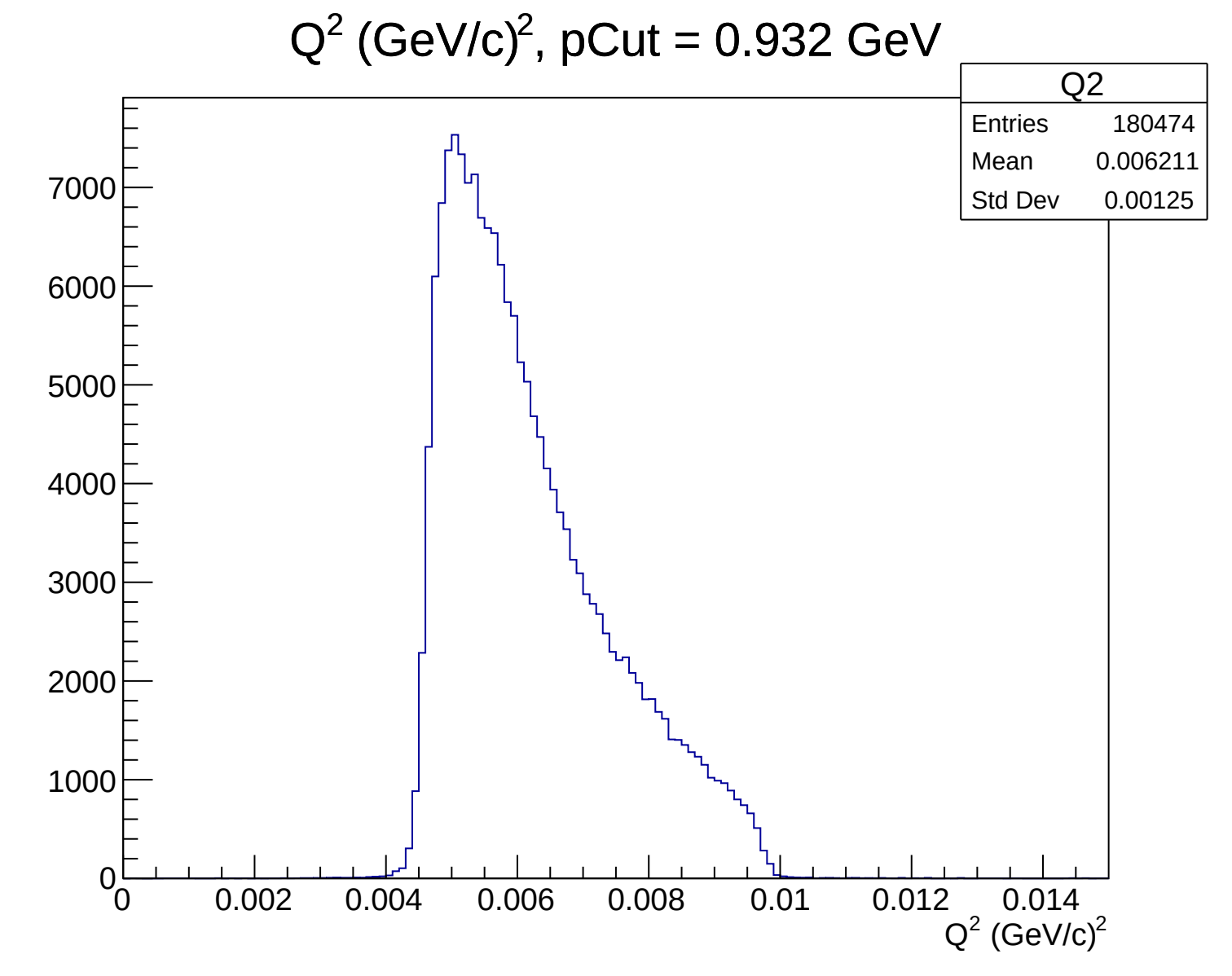

LHRS momentum run2322

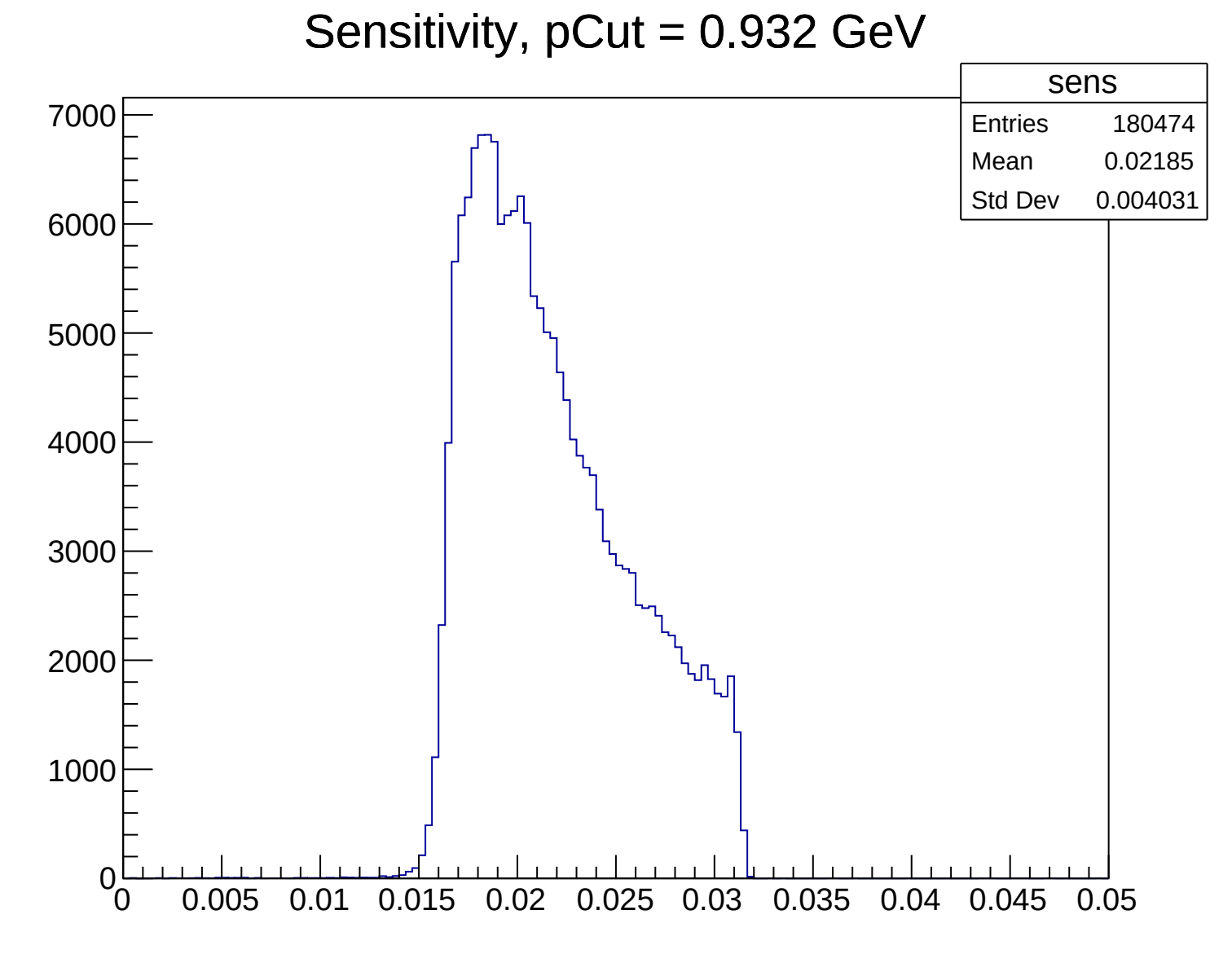



θlab (deg), pCut = 0.932 GeV
Theta
Entries 180474
Mean 4.741
Std Dev 0.4663
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

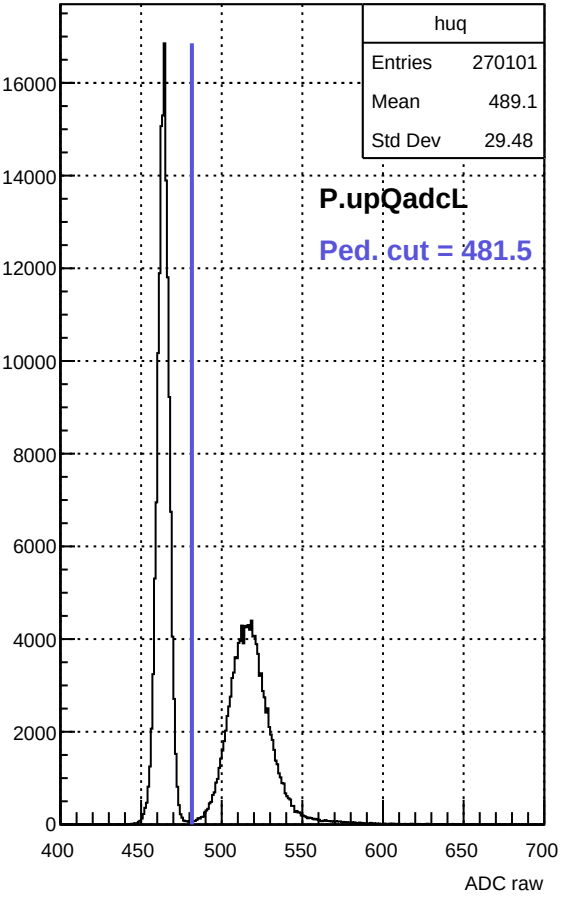

Asymmetry (ppm), pCut = 0.932 GeV
Asym
Entries 180474
Mean 0.5642
Std Dev 0.07828
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.932 GeV
SAsym
Entries 180474
Mean 0.5516
Std Dev 0.07441
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

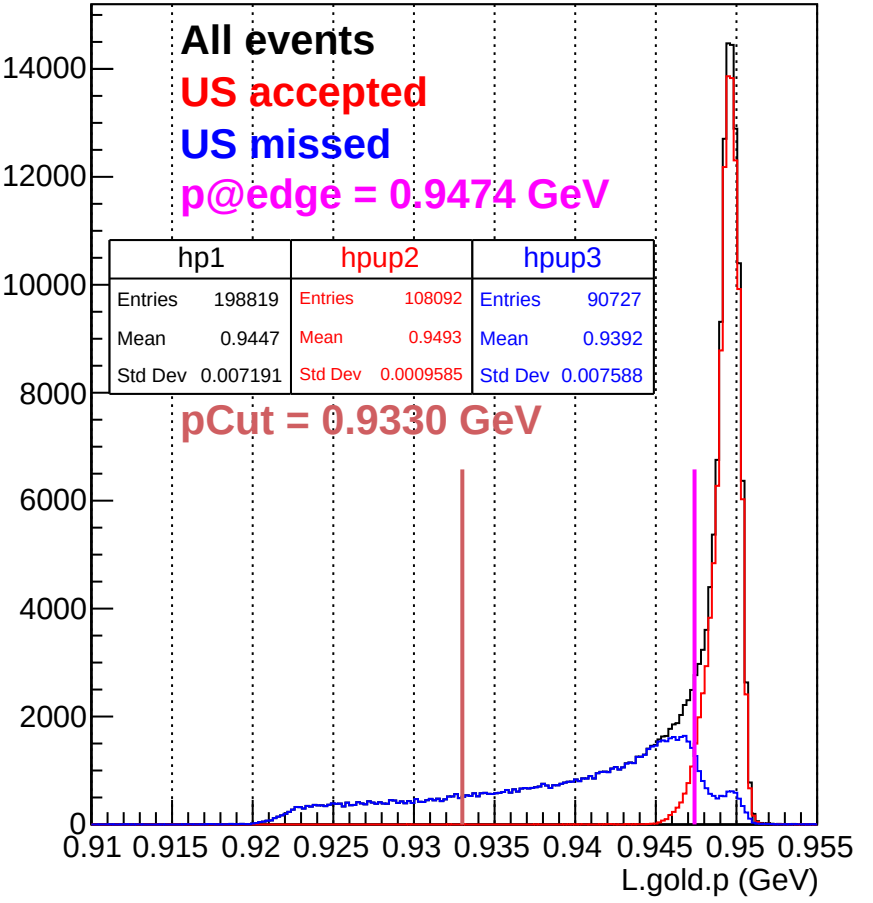

$Q^2$ (GeV/c)$^2$, pCut = 0.932 GeV
Q2
Entries 180474
Mean 0.006211
Std Dev 0.00125
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

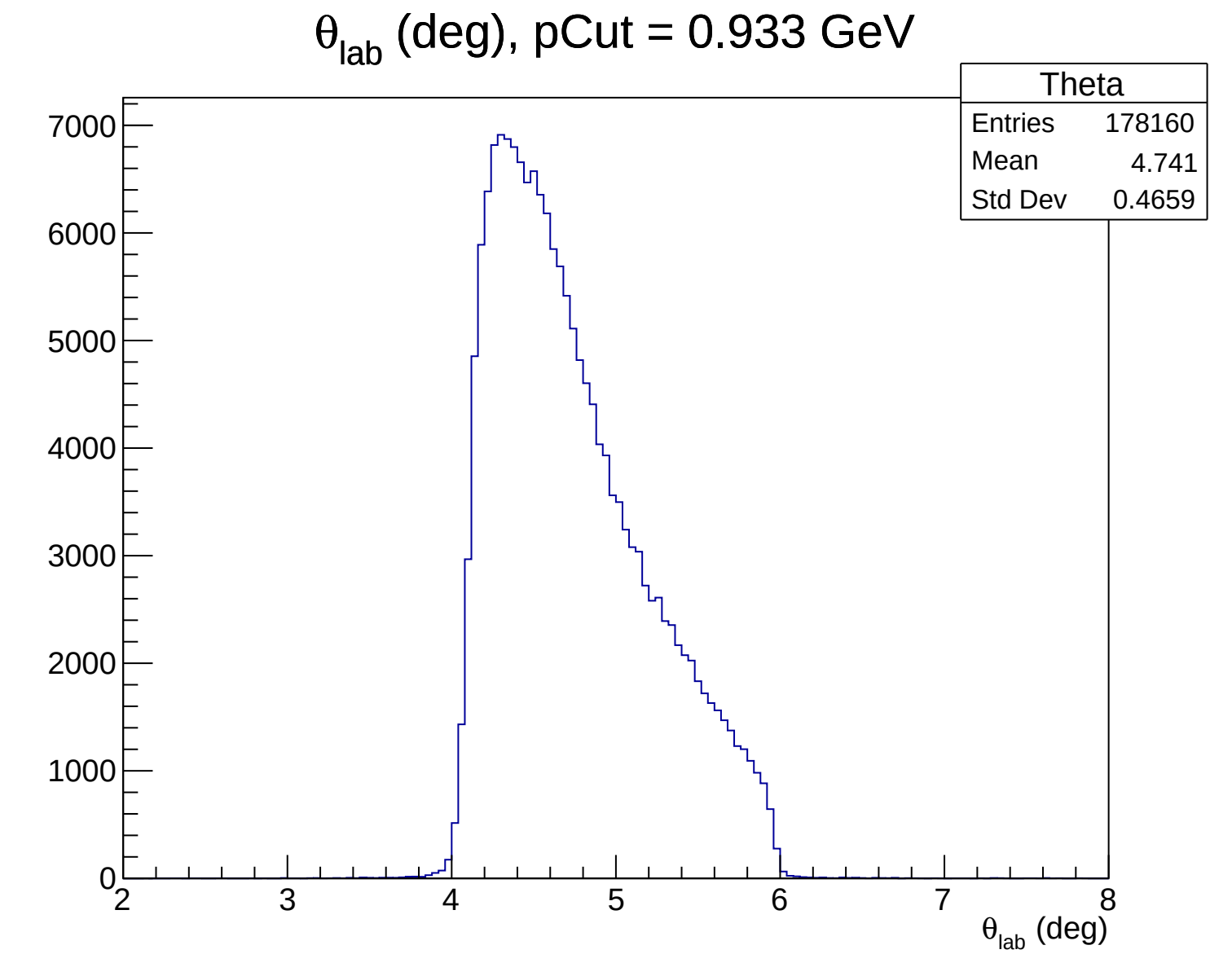

Sensitivity, pCut = 0.932 GeV
sens
Entries 180474
Mean 0.02185
Std Dev 0.004031
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

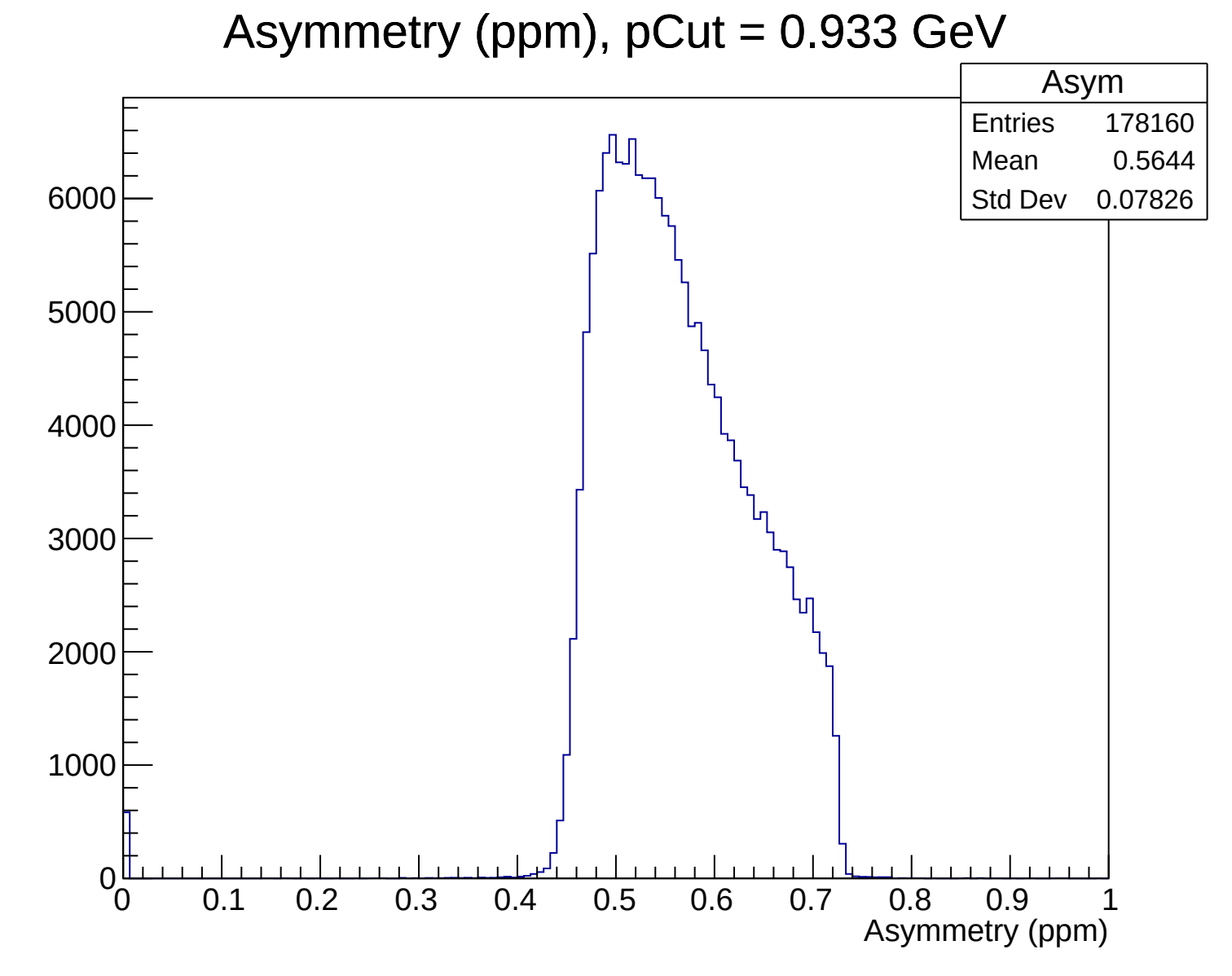
ADC raw (run2322, detZ = 1.3 m)

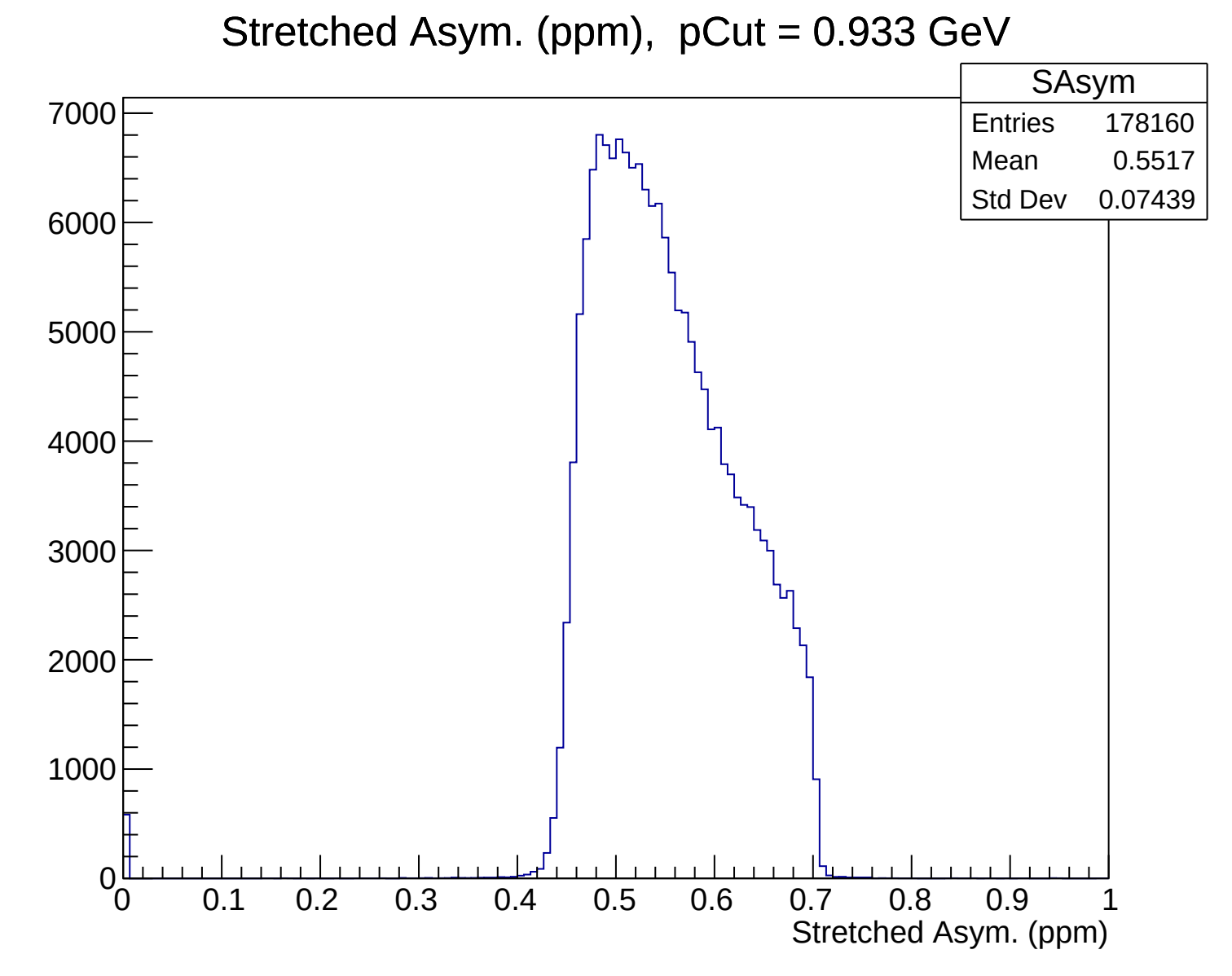


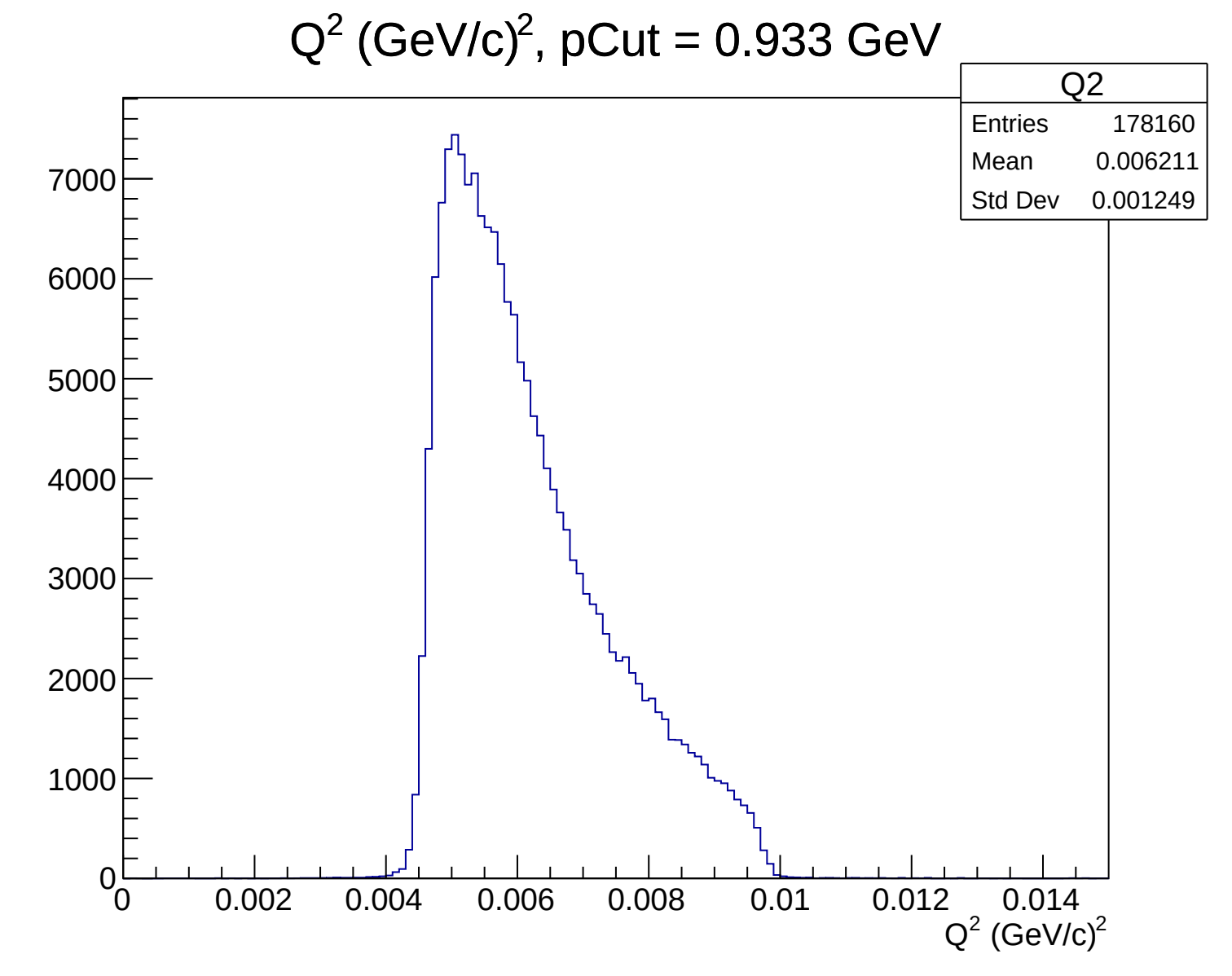

LHRS momentum run2322

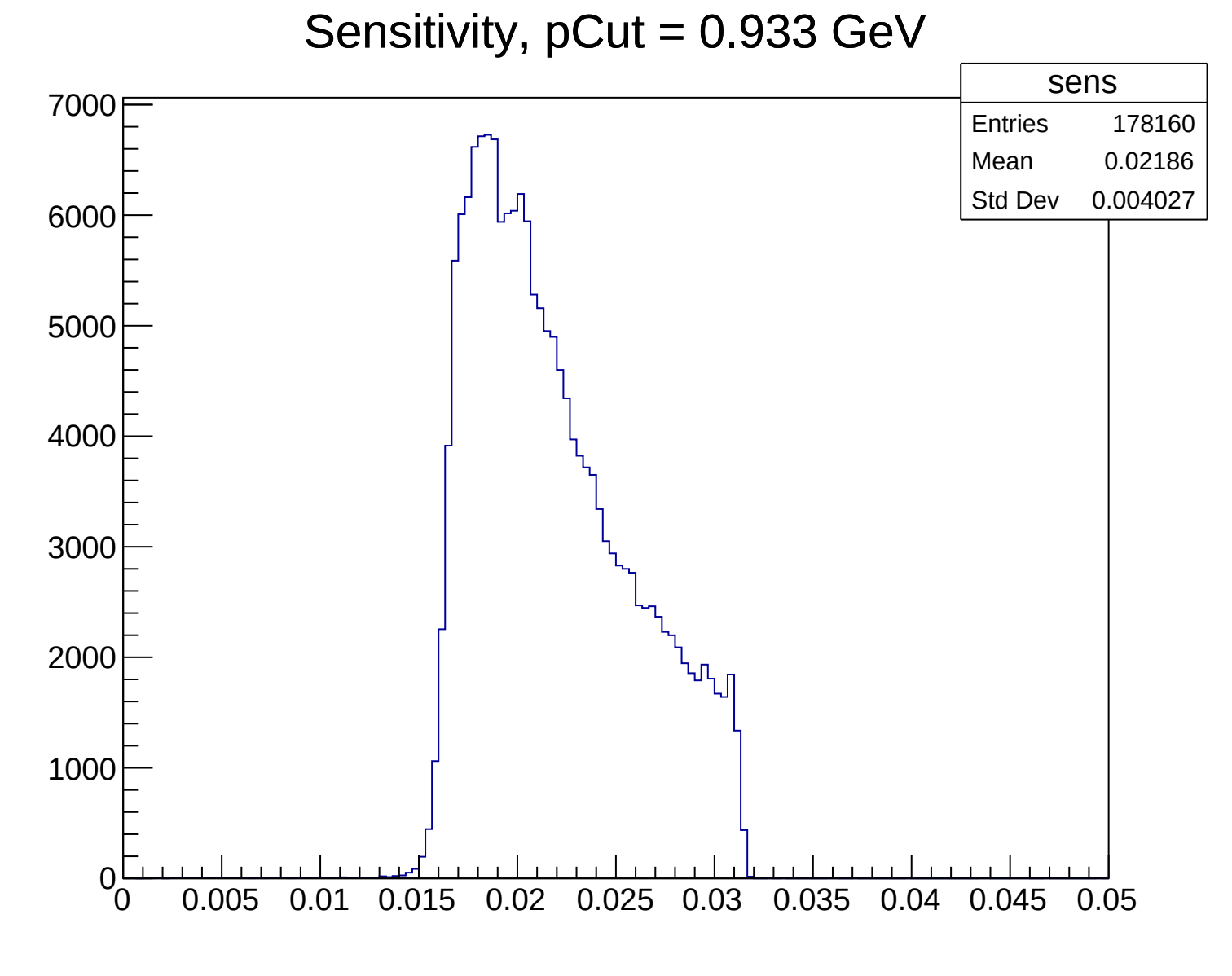



θlab (deg), pCut = 0.933 GeV
Theta
Entries 178160
Mean 4.741
Std Dev 0.4659
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

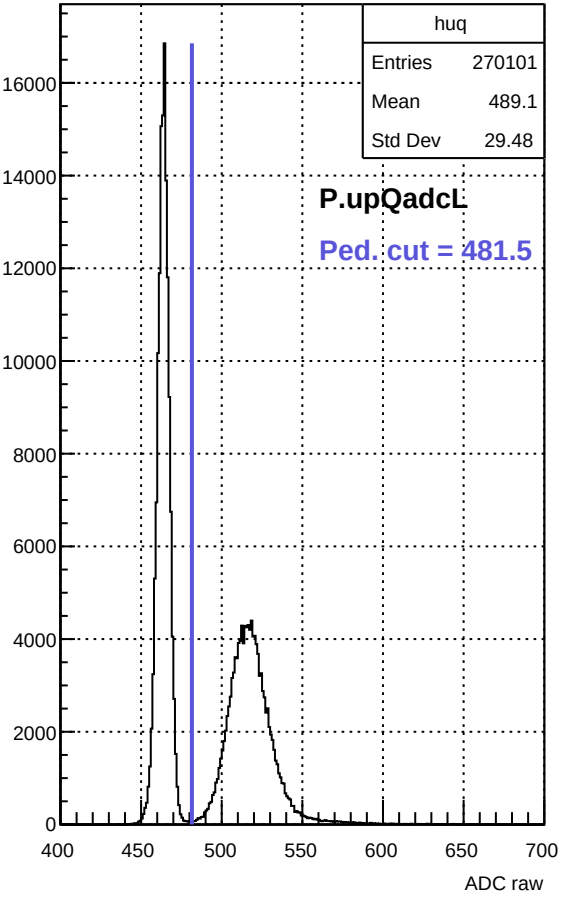

Asymmetry (ppm), pCut = 0.933 GeV
Asym
Entries 178160
Mean 0.5644
Std Dev 0.07826
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.933 GeV
SAsym
Entries 178160
Mean 0.5517
Std Dev 0.07439
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

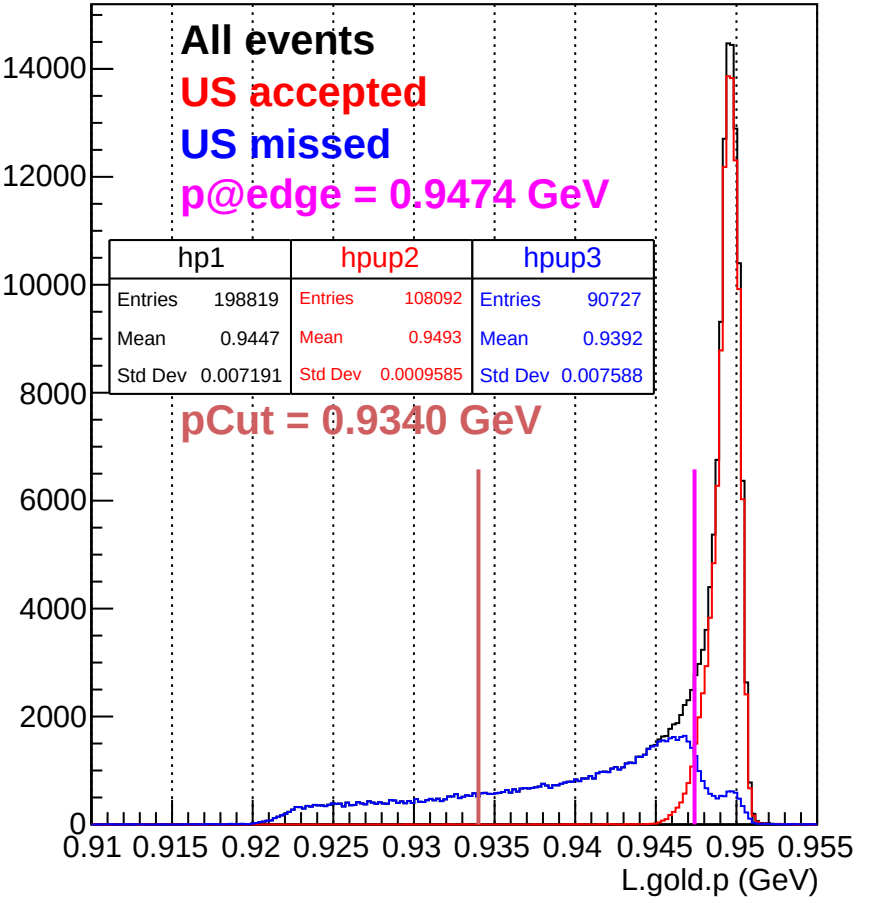

$Q^2$ (GeV/c)$^2$, pCut = 0.933 GeV
Q2
Entries 178160
Mean 0.006211
Std Dev 0.001249
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

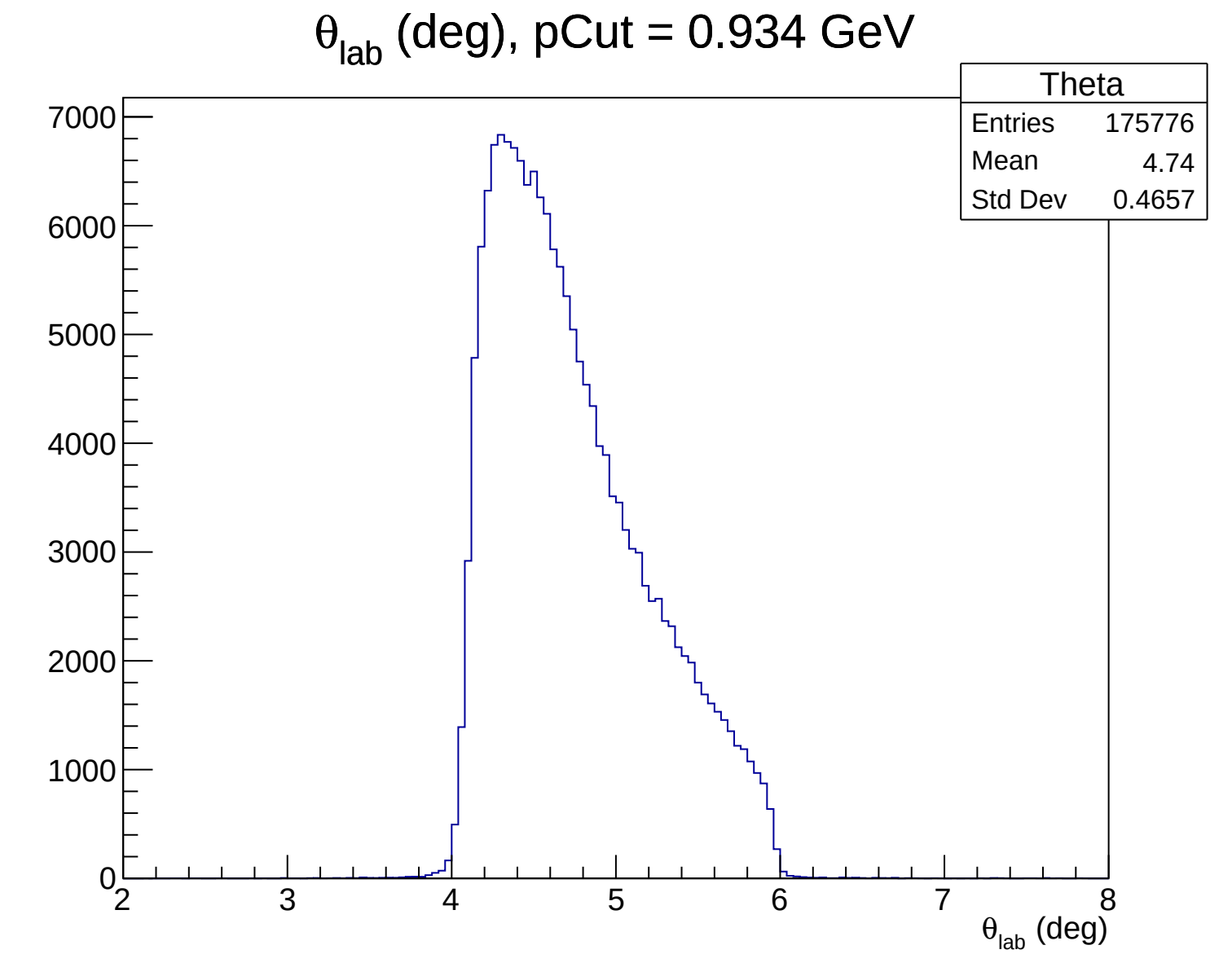

Sensitivity, pCut = 0.933 GeV
sens
Entries 178160
Mean 0.02186
Std Dev 0.004027
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

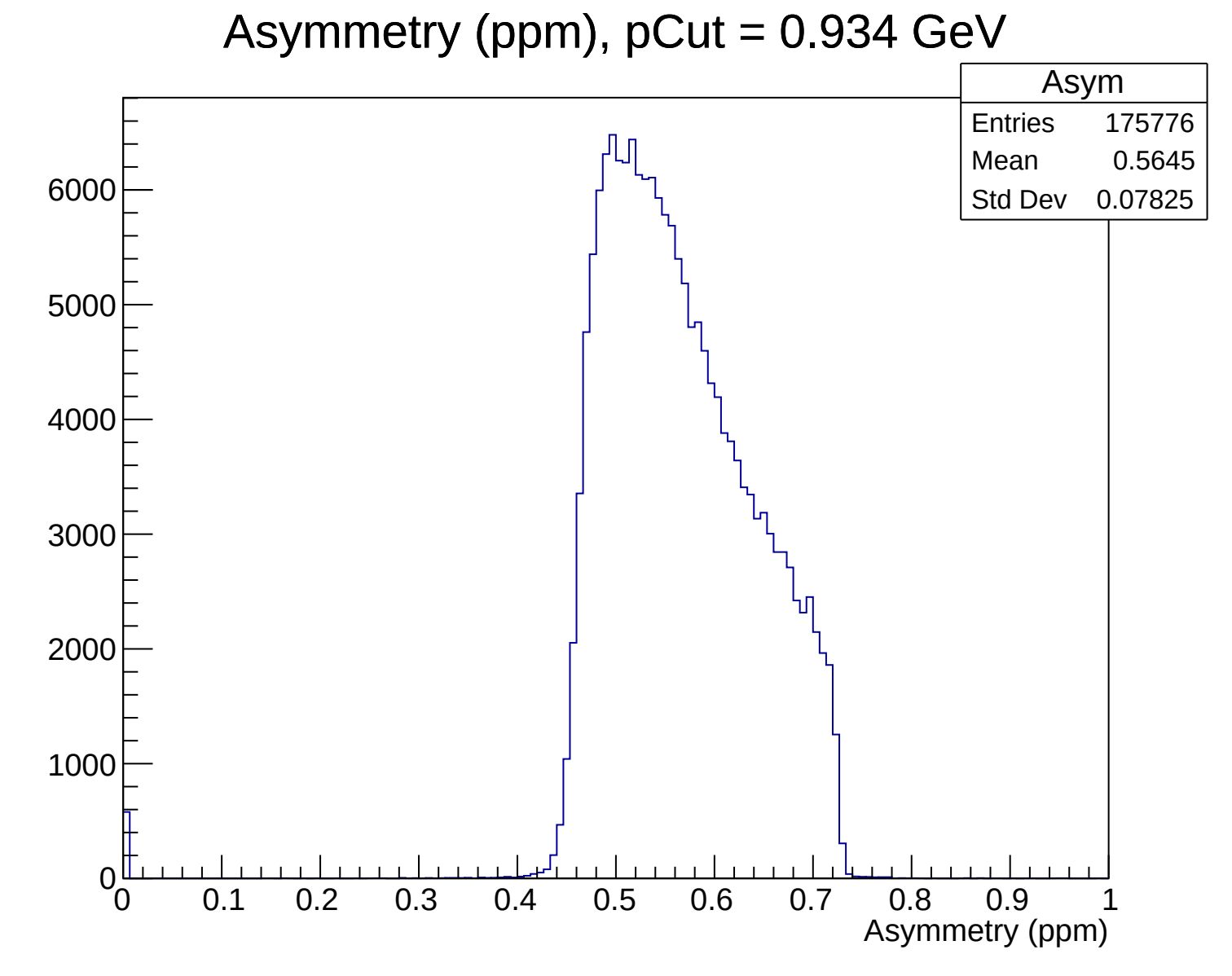
ADC raw (run2322, detZ = 1.3 m)

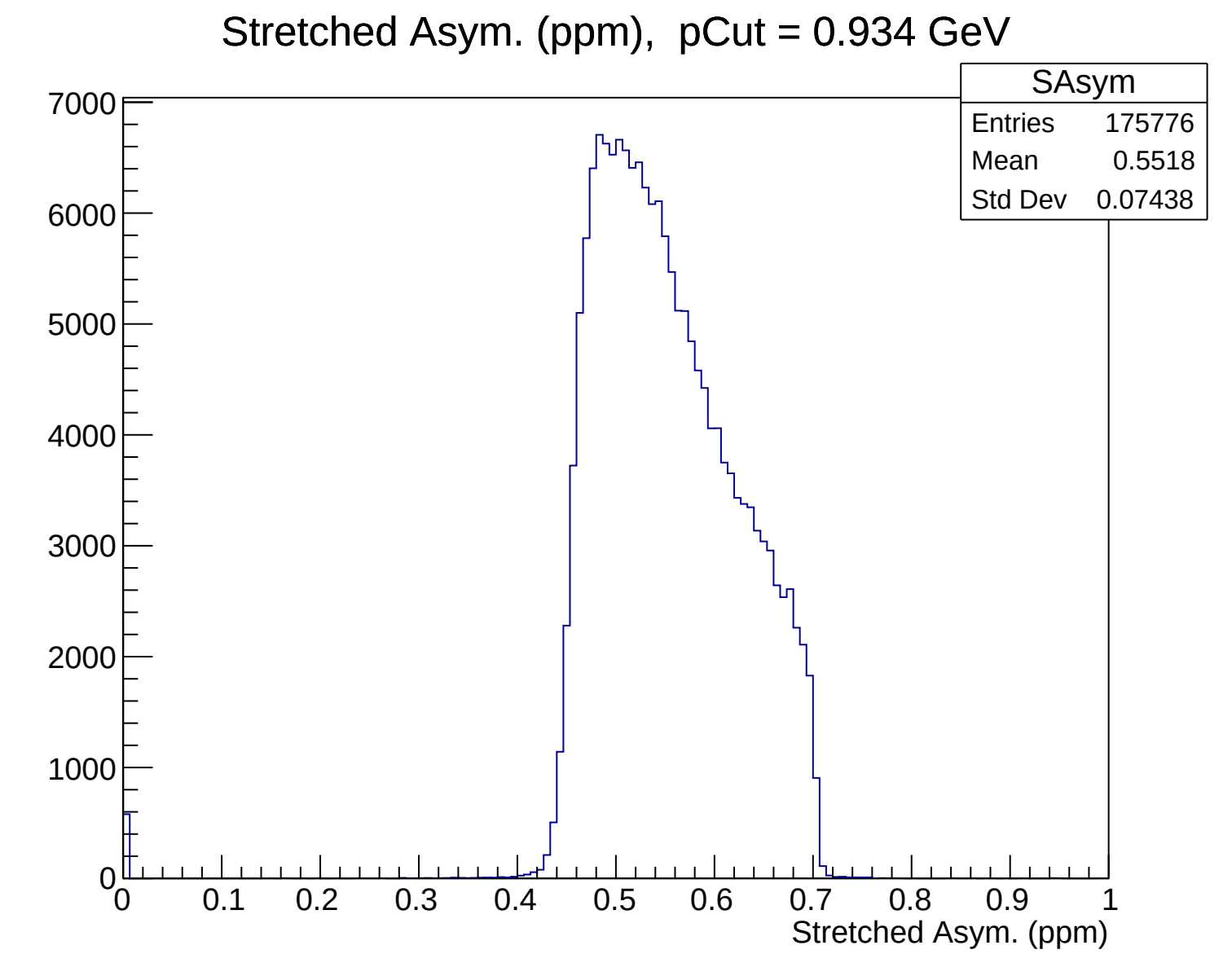


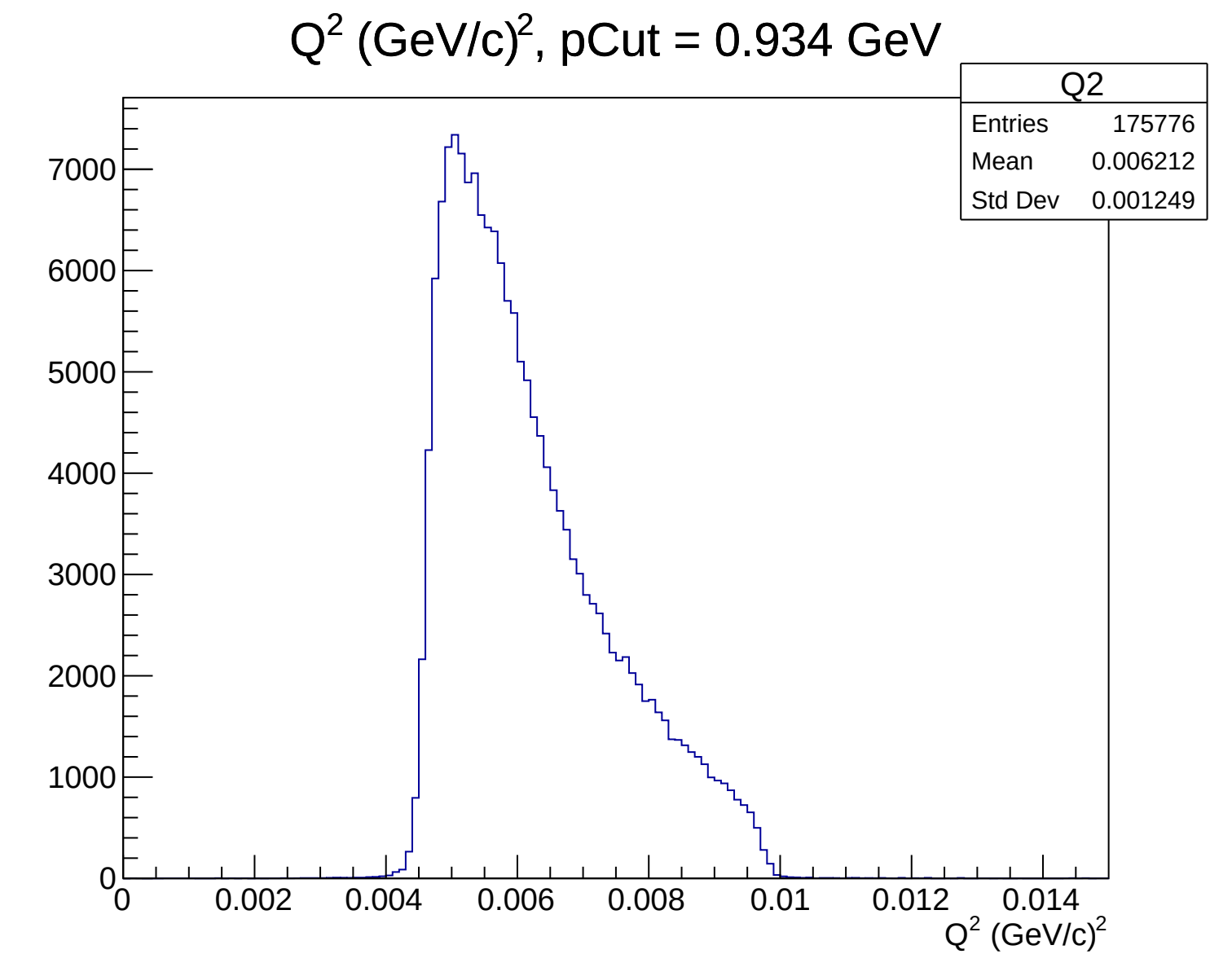

LHRS momentum run2322

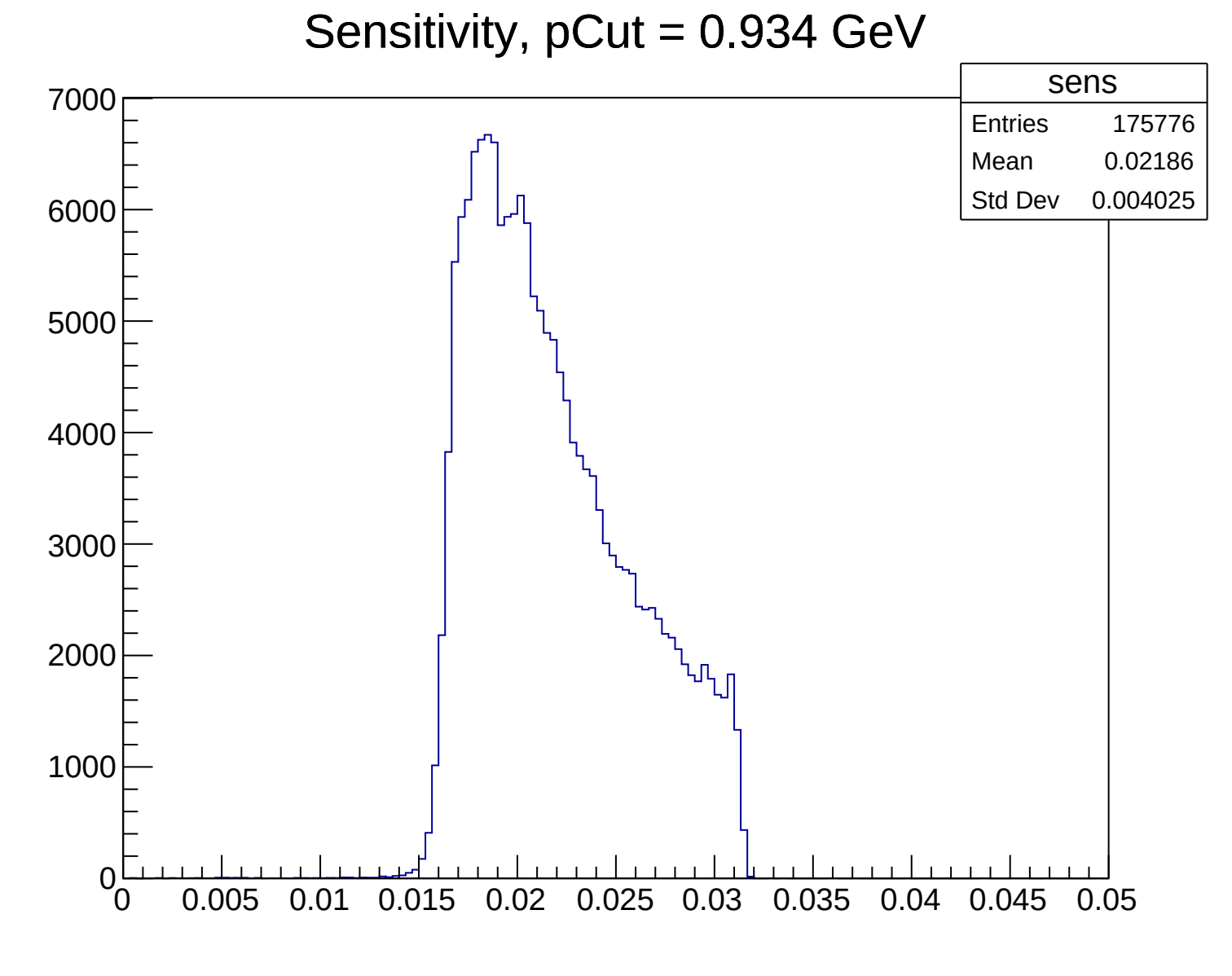



θlab (deg), pCut = 0.934 GeV
Theta
Entries 175776
Mean 4.74
Std Dev 0.4657
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

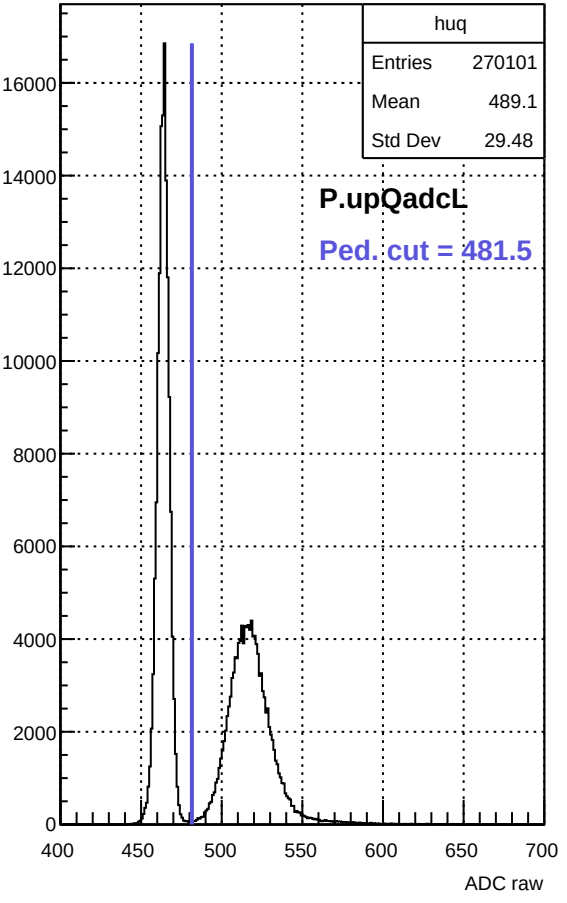

Asymmetry (ppm), pCut = 0.934 GeV
Asym
Entries 175776
Mean 0.5645
Std Dev 0.07825
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.934 GeV
SAsym
Entries 175776
Mean 0.5518
Std Dev 0.07438
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

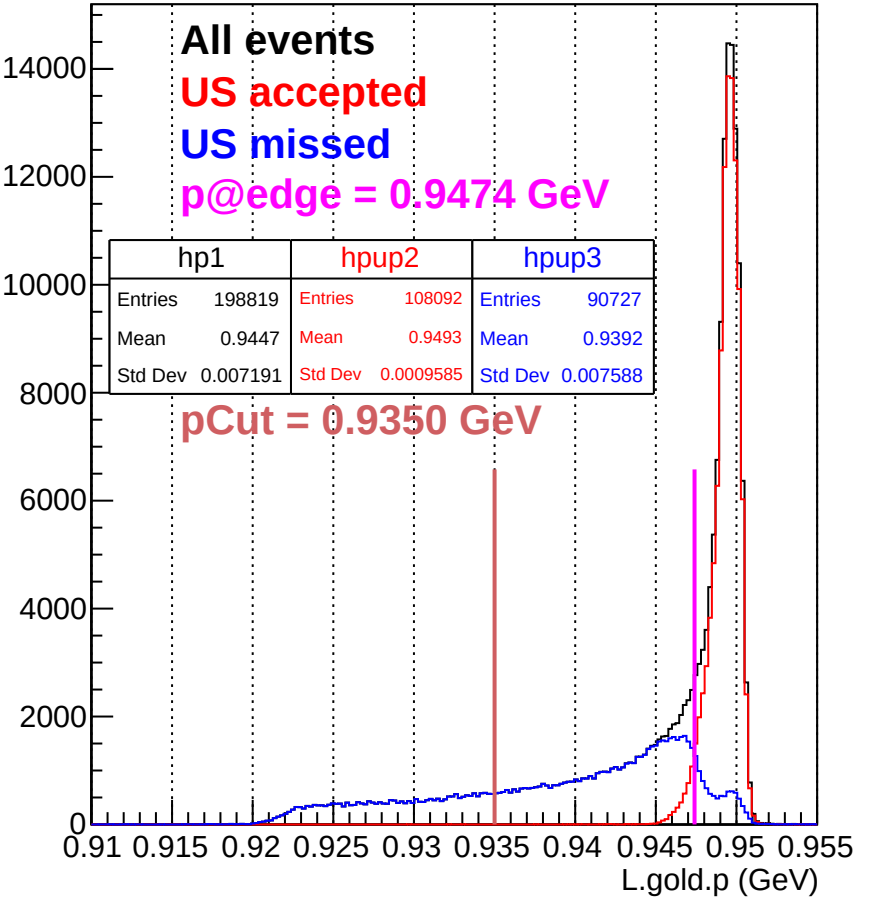

$Q^2$ (GeV/c)$^2$, pCut = 0.934 GeV
Q2
Entries 175776
Mean 0.006212
Std Dev 0.001249
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

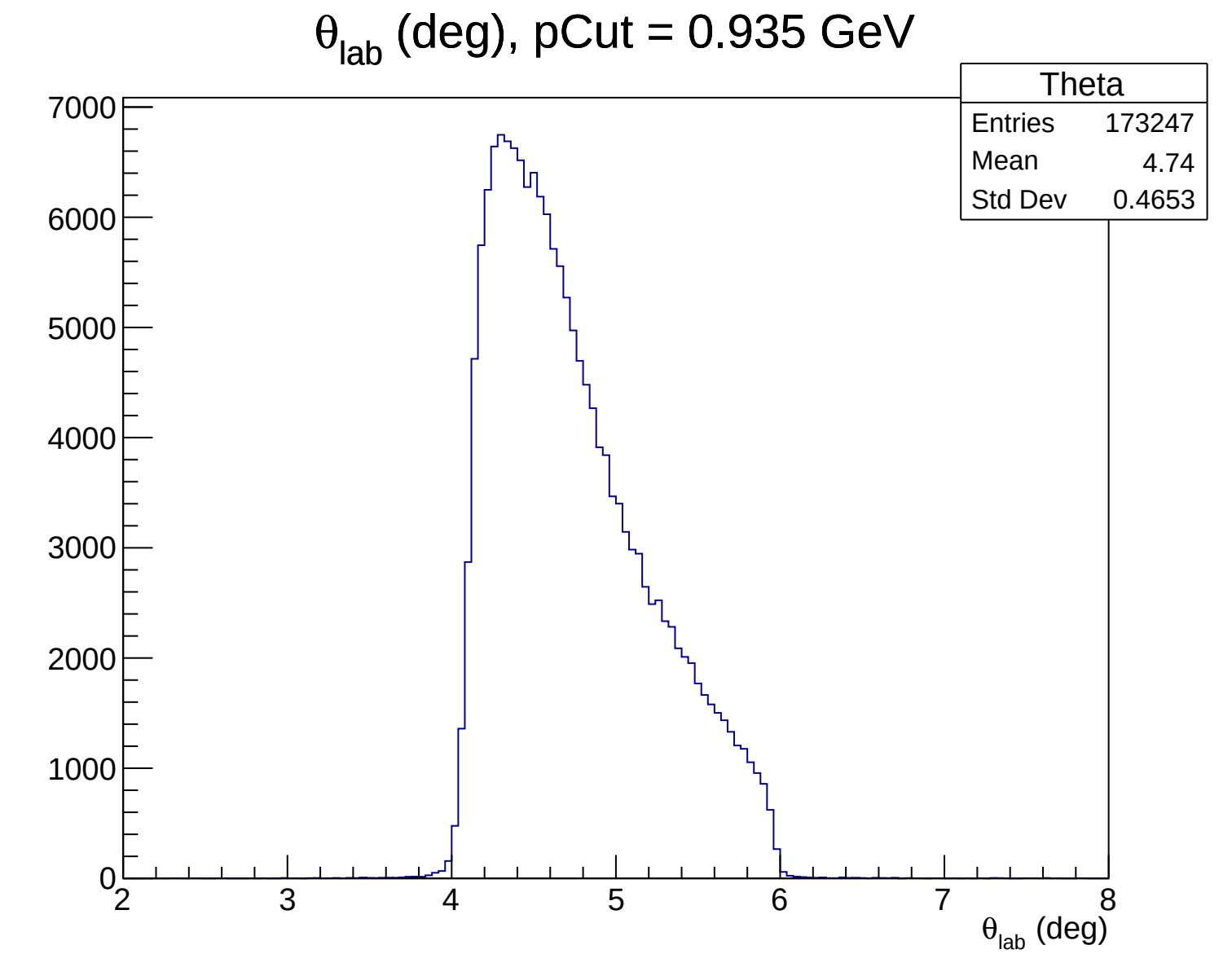

Sensitivity, pCut = 0.934 GeV
sens
Entries 175776
Mean 0.02186
Std Dev 0.004025
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

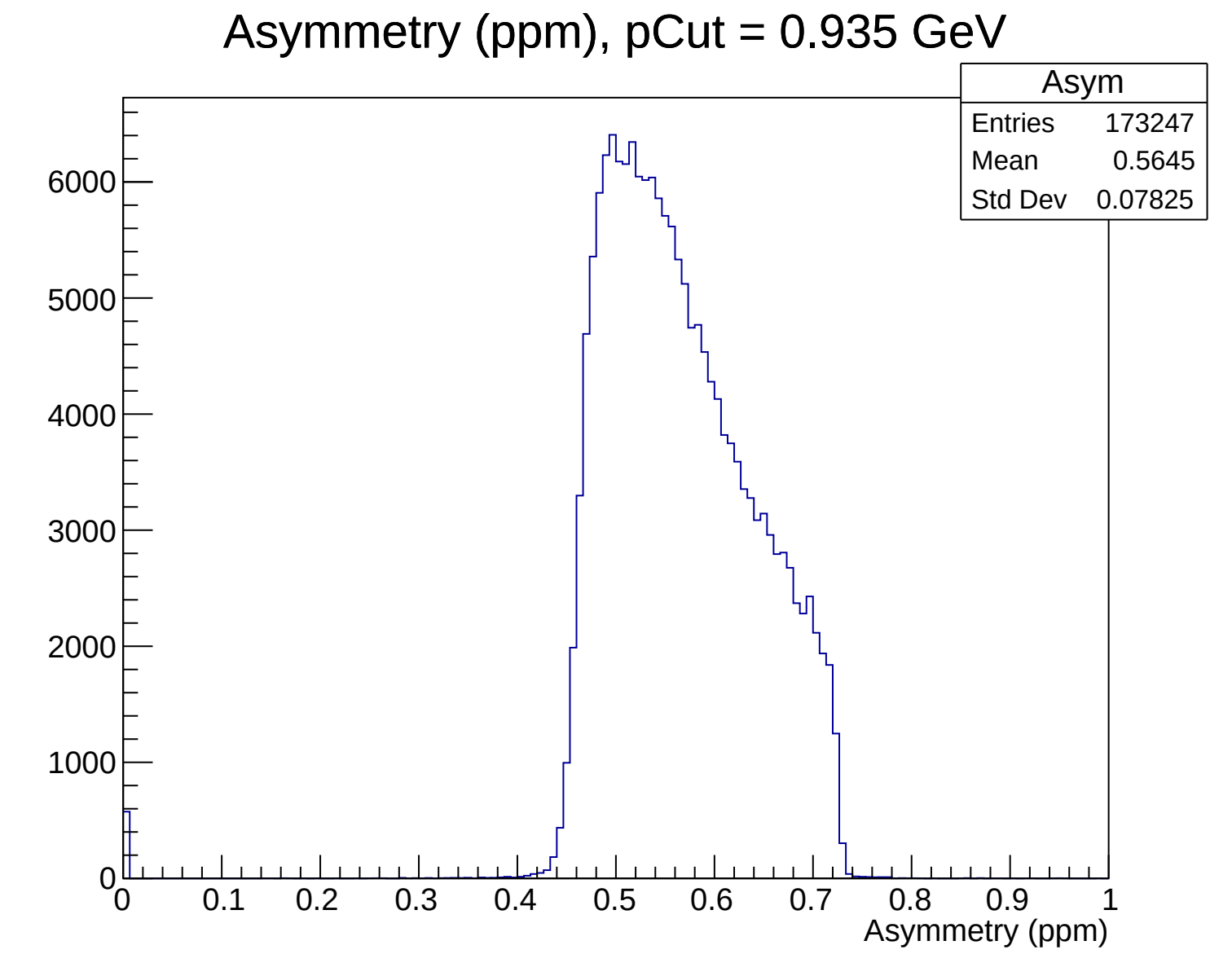
ADC raw (run2322, detZ = 1.3 m)

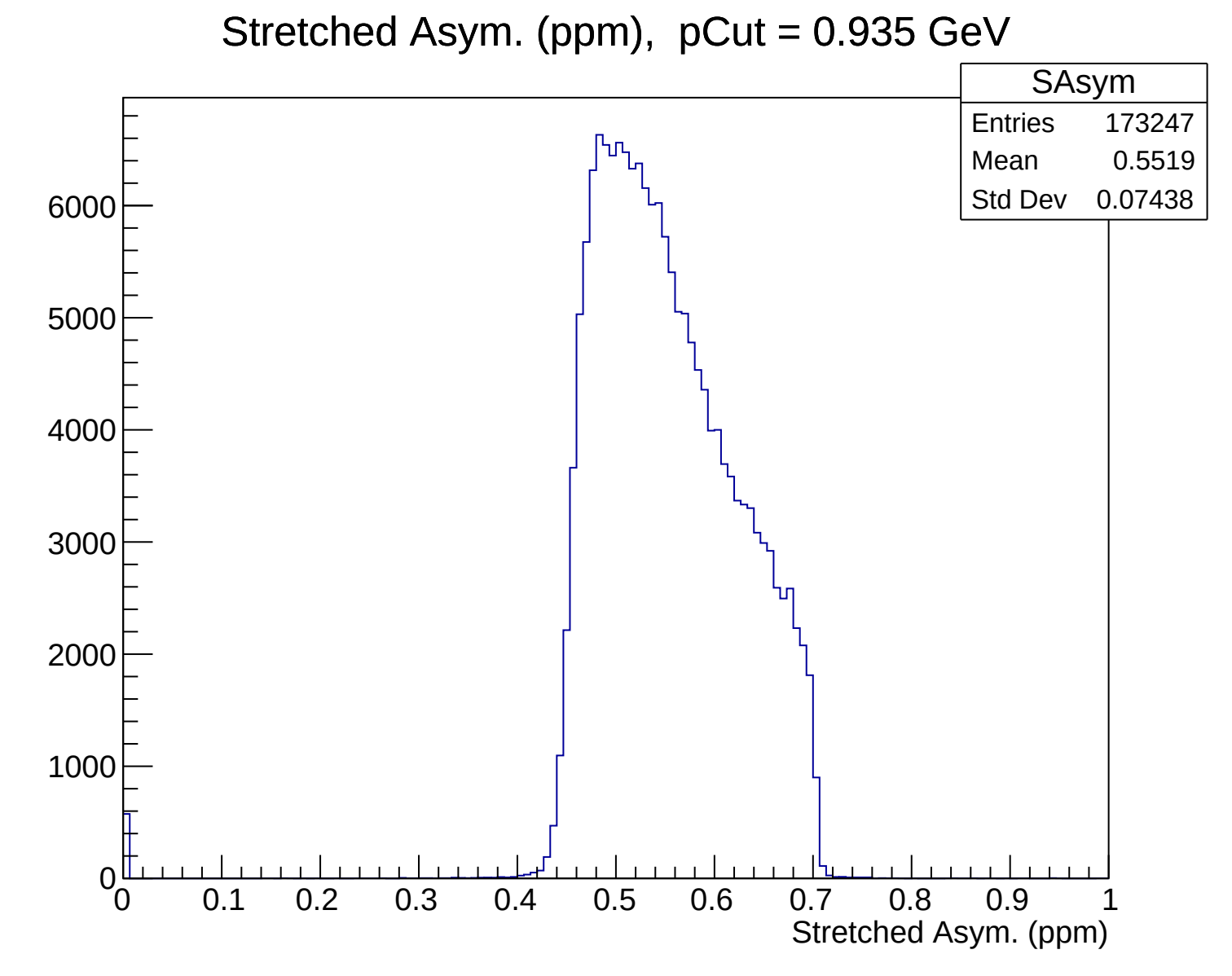


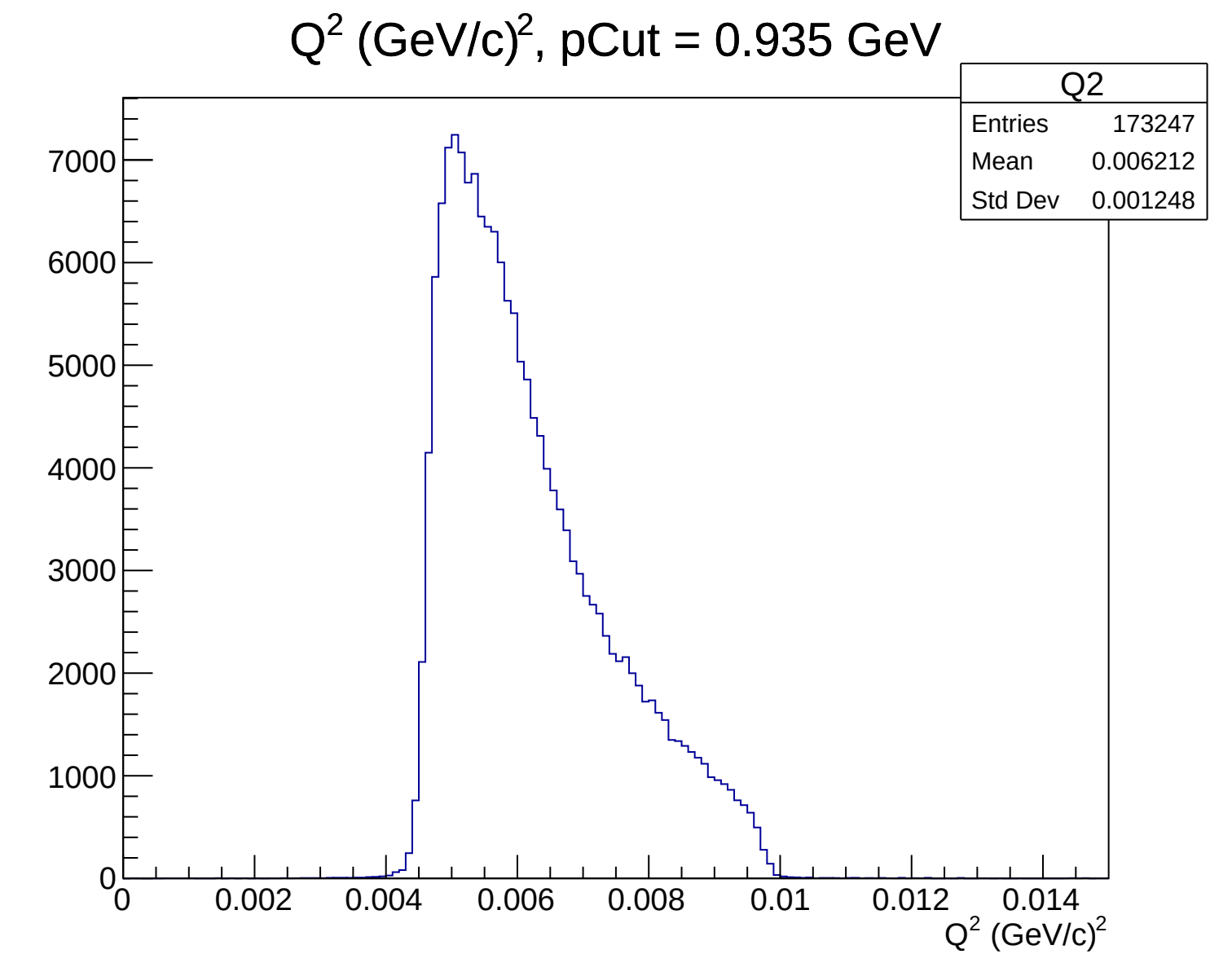

LHRS momentum run2322

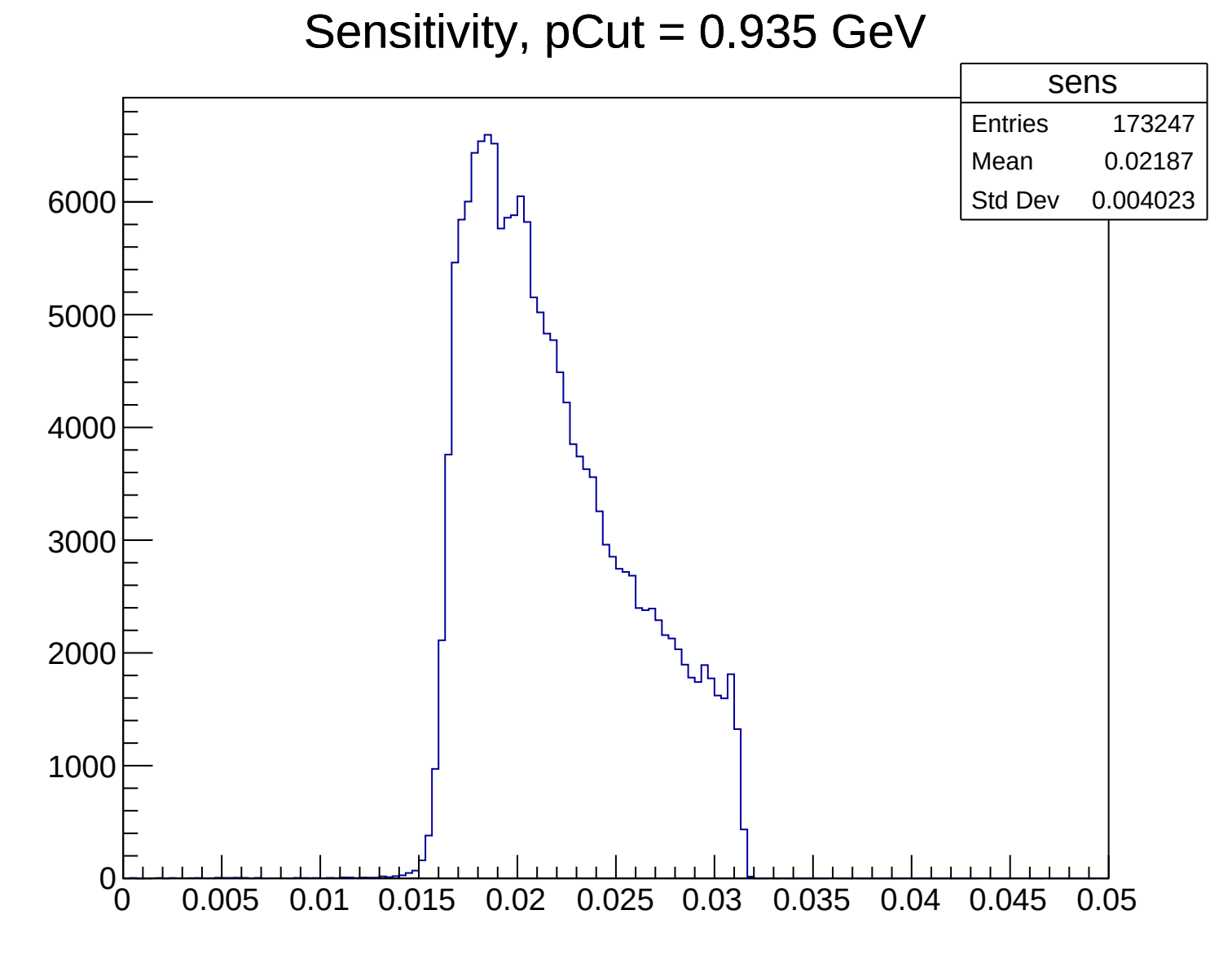



θlab (deg), pCut = 0.935 GeV
Theta
Entries 173247
Mean 4.74
Std Dev 0.4653
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

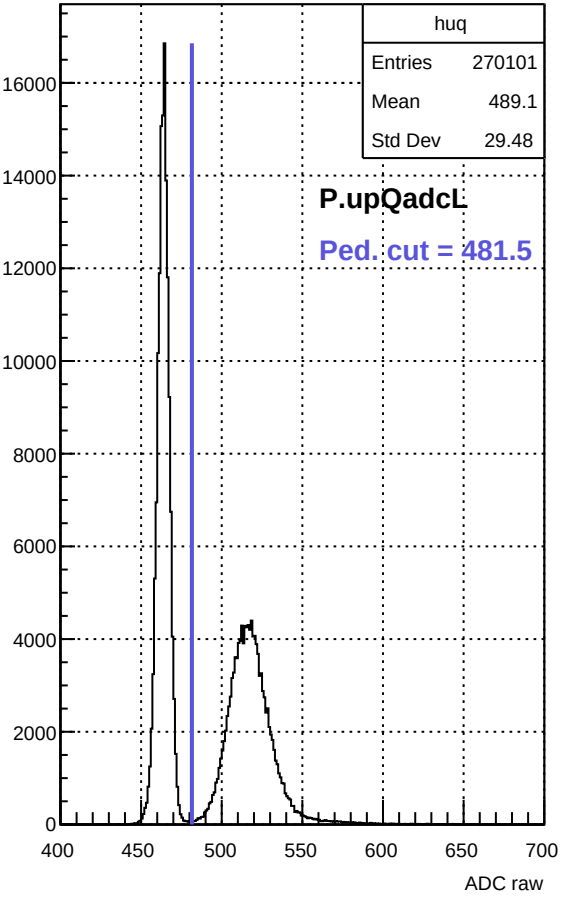

Asymmetry (ppm), pCut = 0.935 GeV
Asym
Entries 173247
Mean 0.5645
Std Dev 0.07825
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.935 GeV
SAsym
Entries 173247
Mean 0.5519
Std Dev 0.07438
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

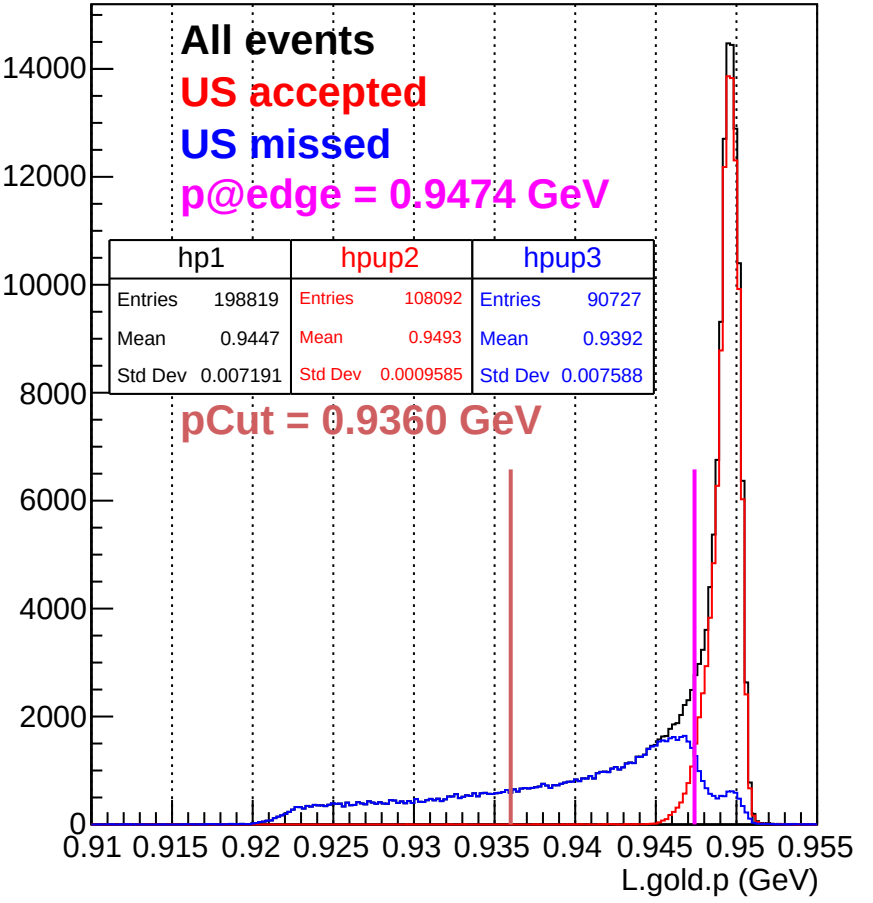

$Q^2$ (GeV/c)$^2$, pCut = 0.935 GeV
Q2
Entries 173247
Mean 0.006212
Std Dev 0.001248
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

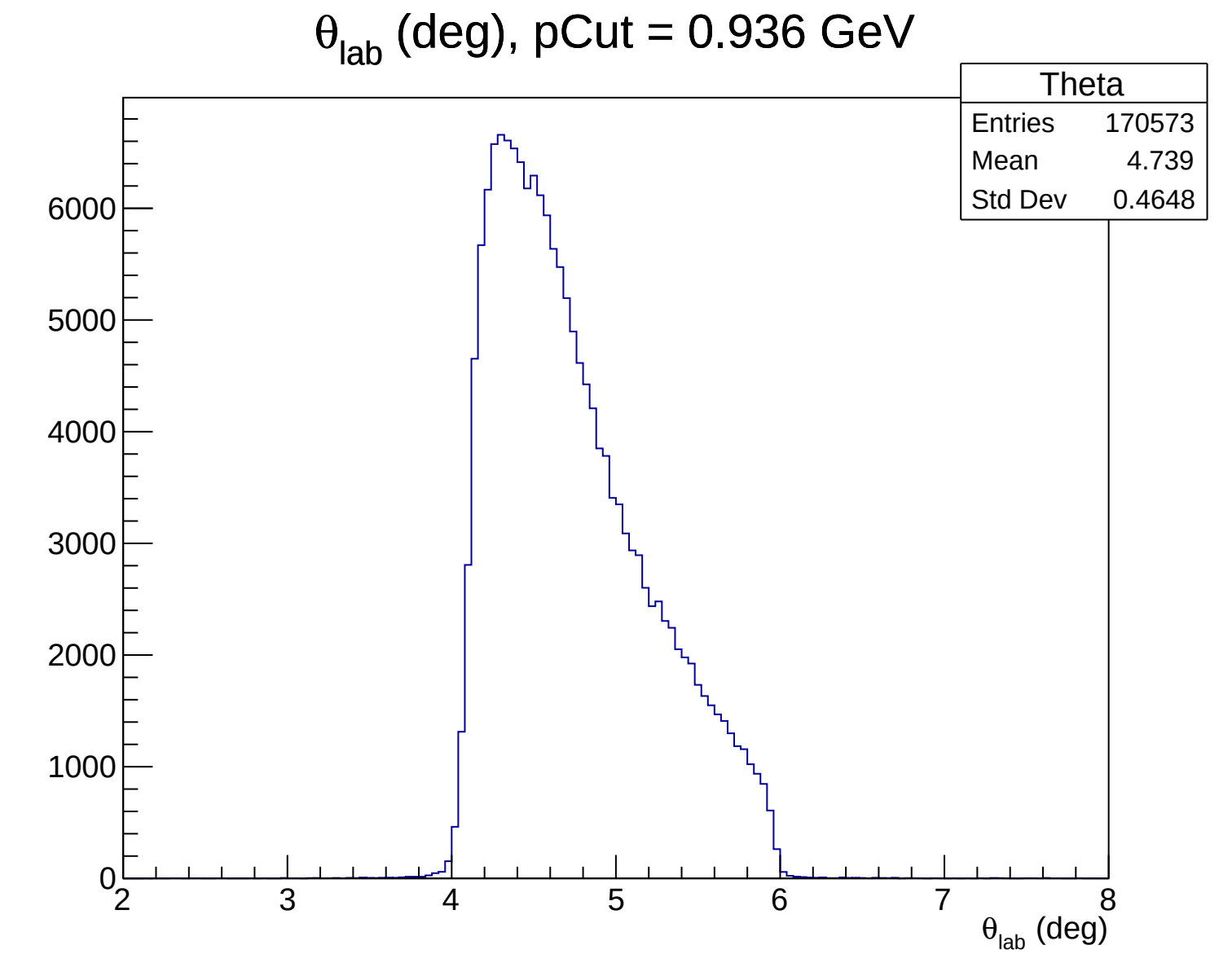

Sensitivity, pCut = 0.935 GeV
sens
Entries 173247
Mean 0.02187
Std Dev 0.004023
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

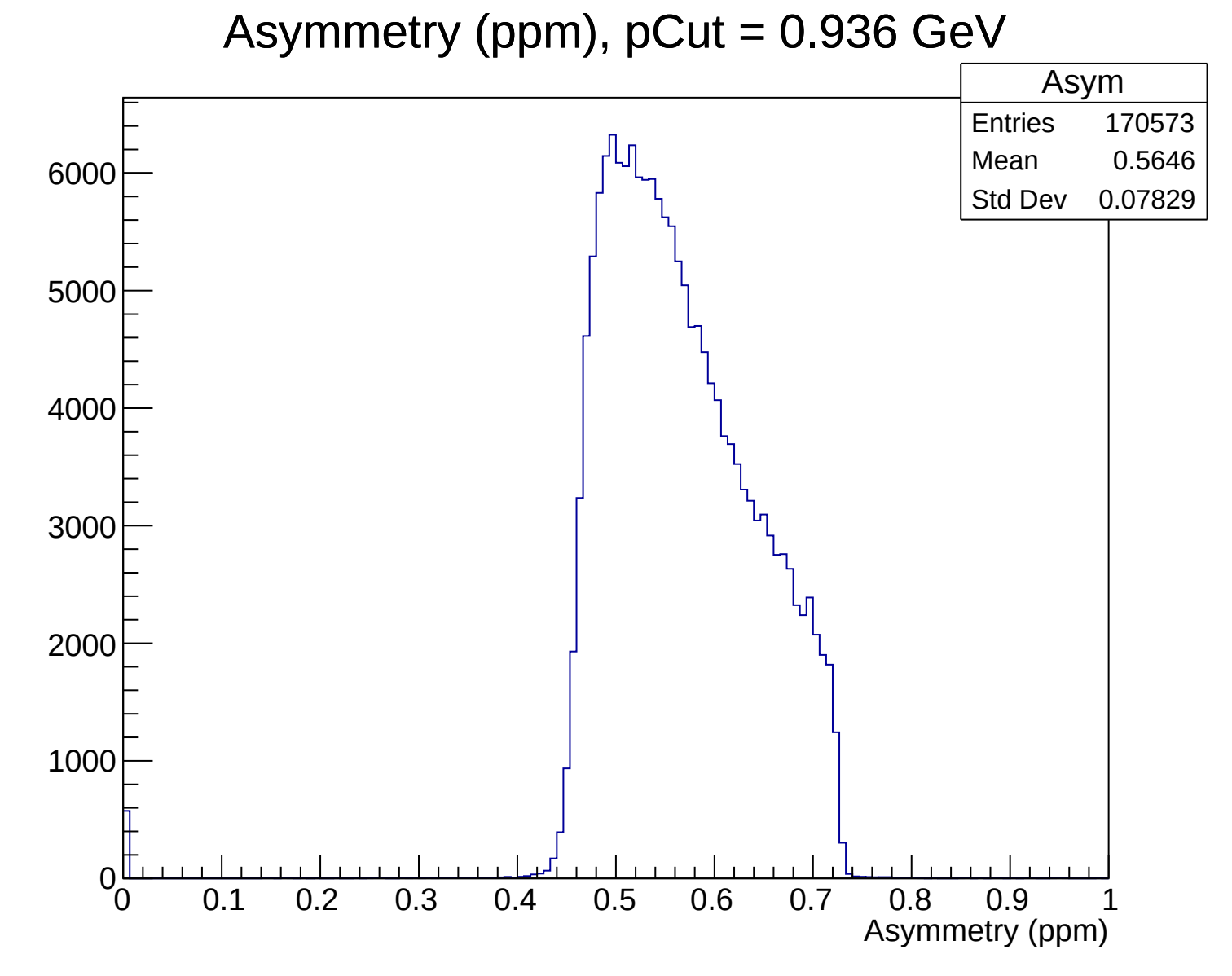
ADC raw (run2322, detZ = 1.3 m)

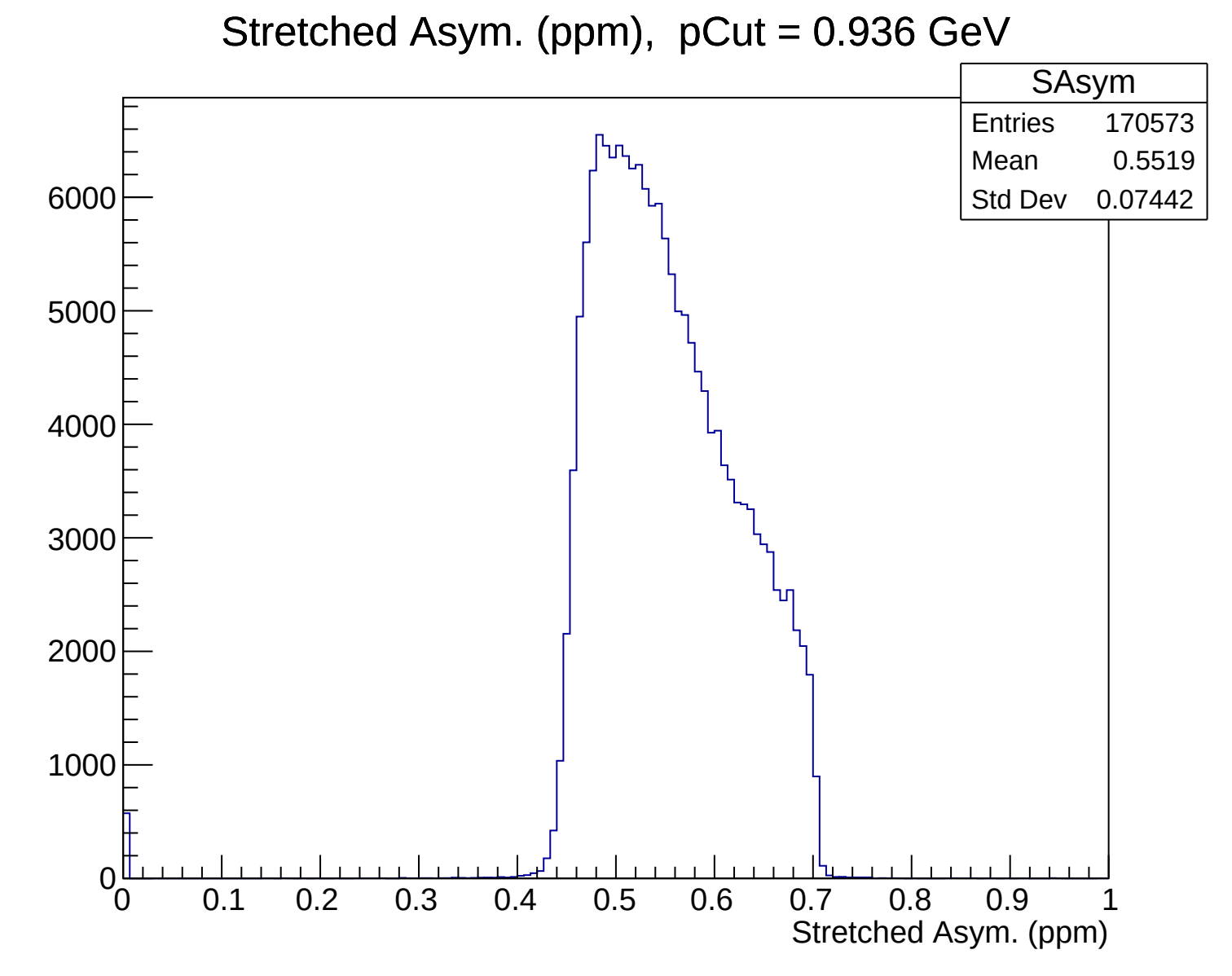


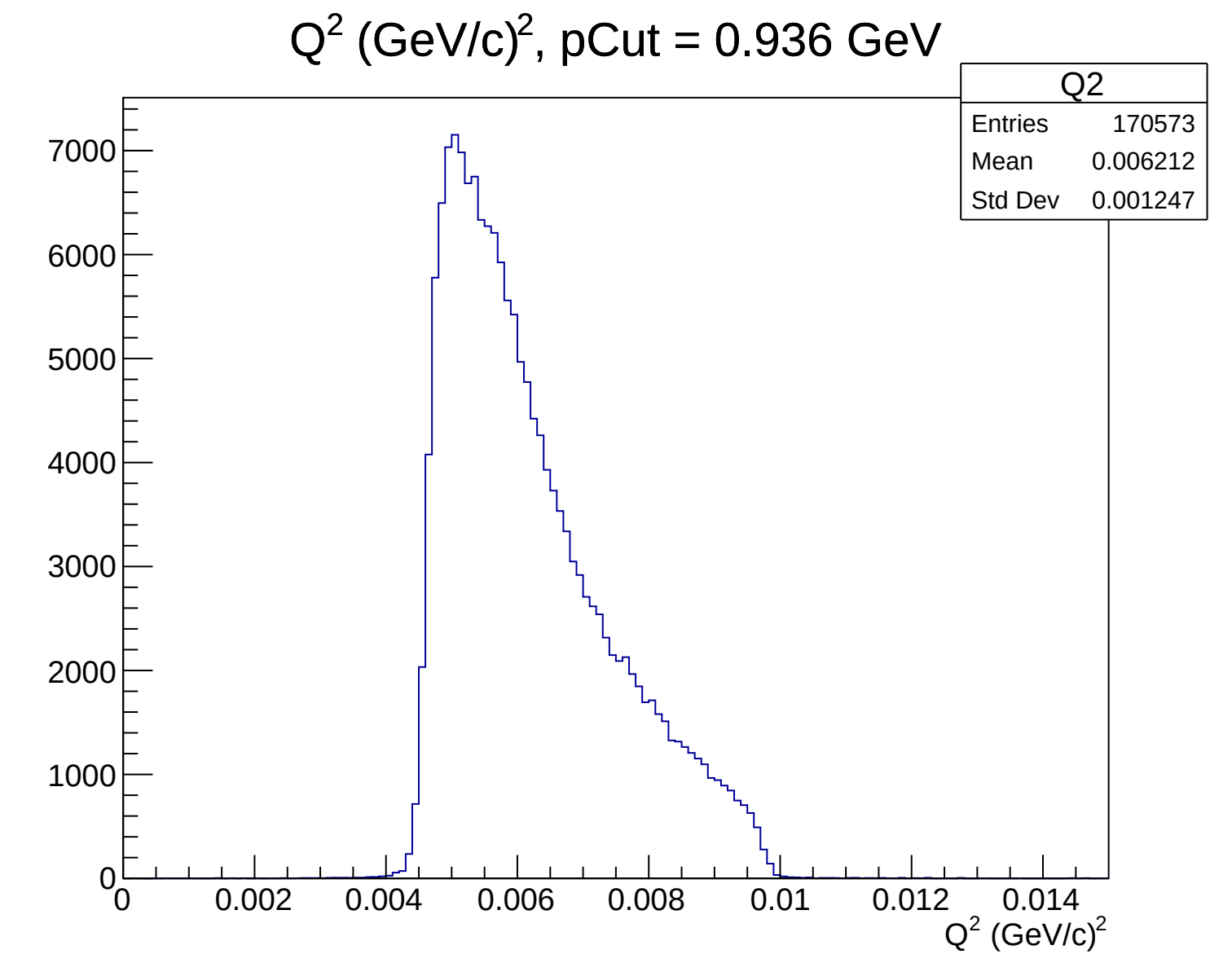

LHRS momentum run2322

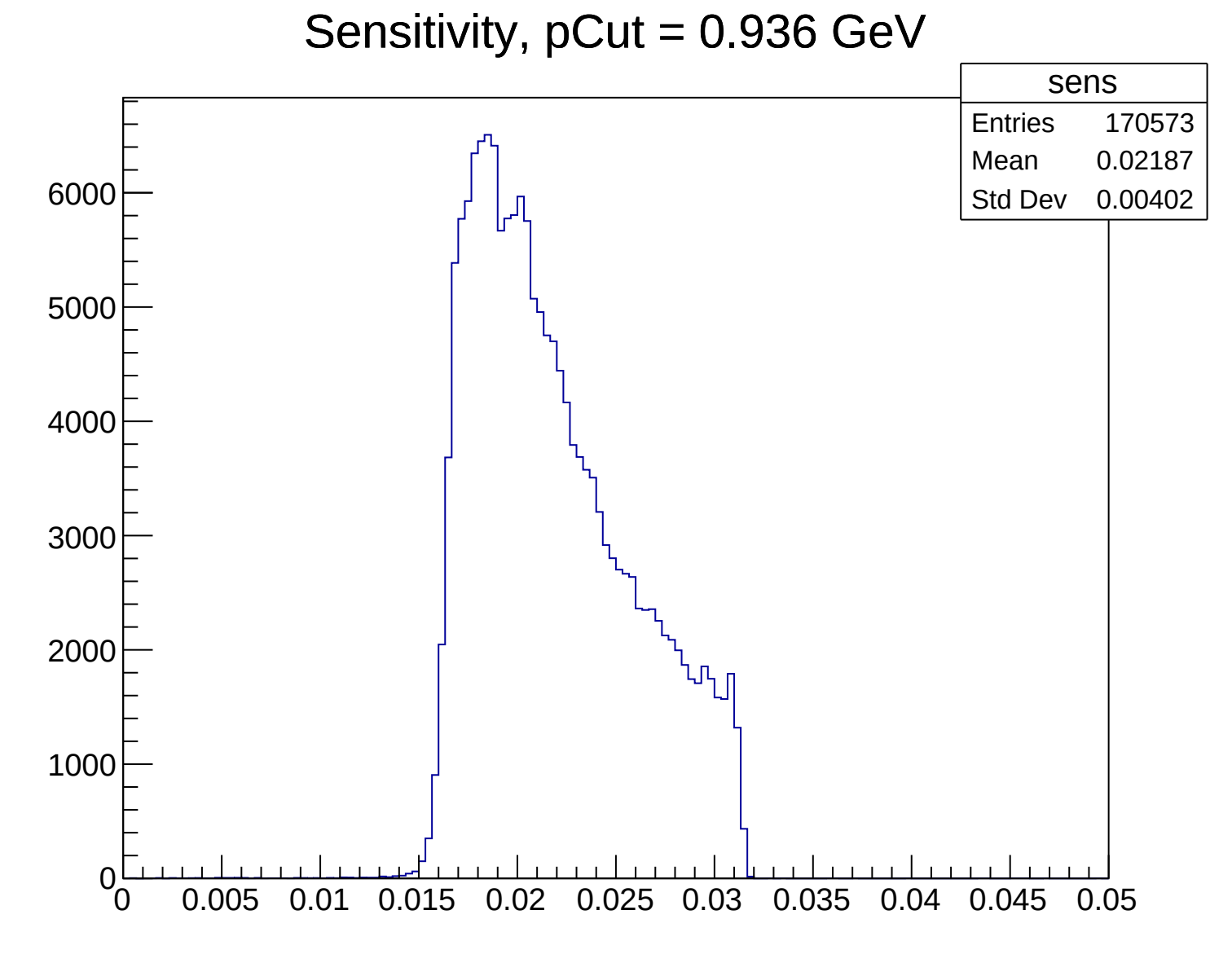



θlab (deg), pCut = 0.936 GeV
Theta
Entries 170573
Mean 4.739
Std Dev 0.4648
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

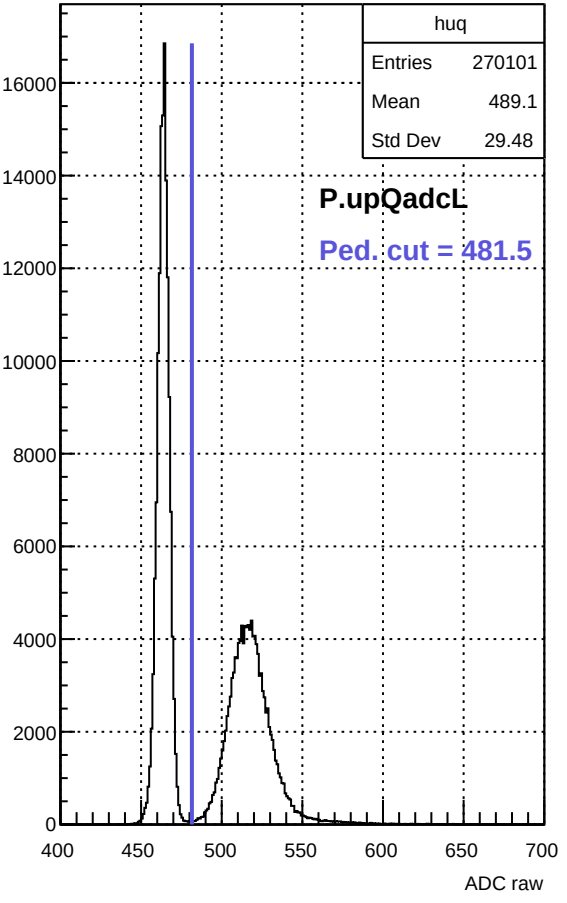

Asymmetry (ppm), pCut = 0.936 GeV
Asym
Entries 170573
Mean 0.5646
Std Dev 0.07829
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.936 GeV
SAsym
Entries 170573
Mean 0.5519
Std Dev 0.07442
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

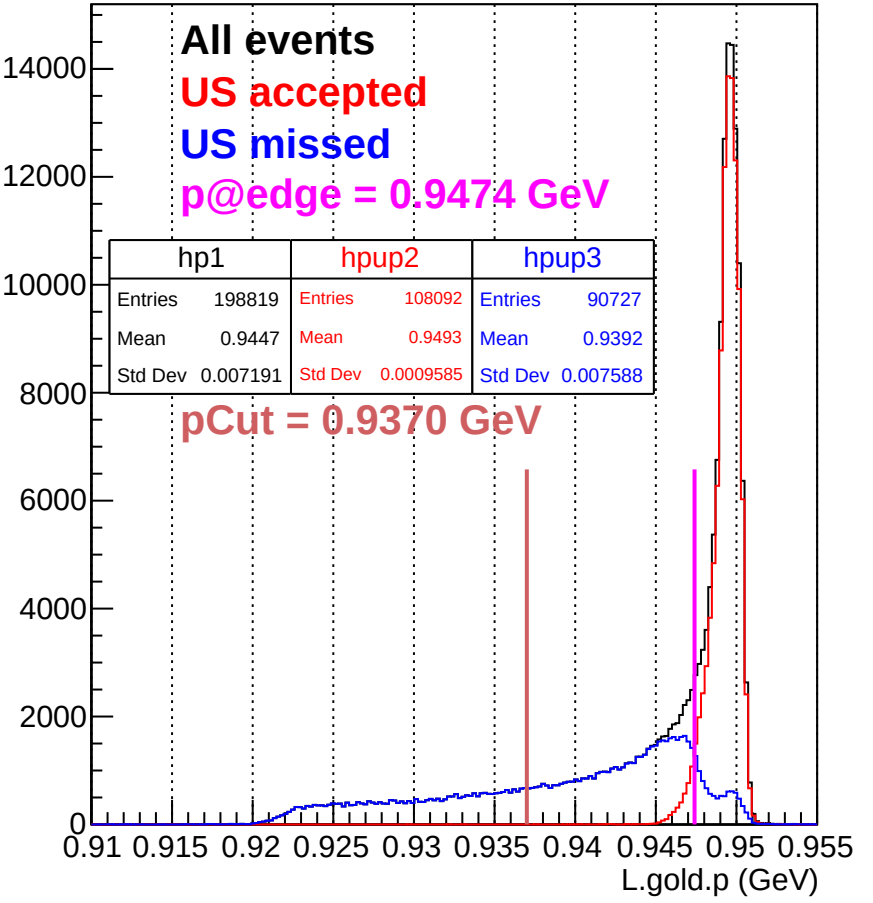

$Q^2$ (GeV/c)$^2$, pCut = 0.936 GeV
Q2
Entries 170573
Mean 0.006212
Std Dev 0.001247
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

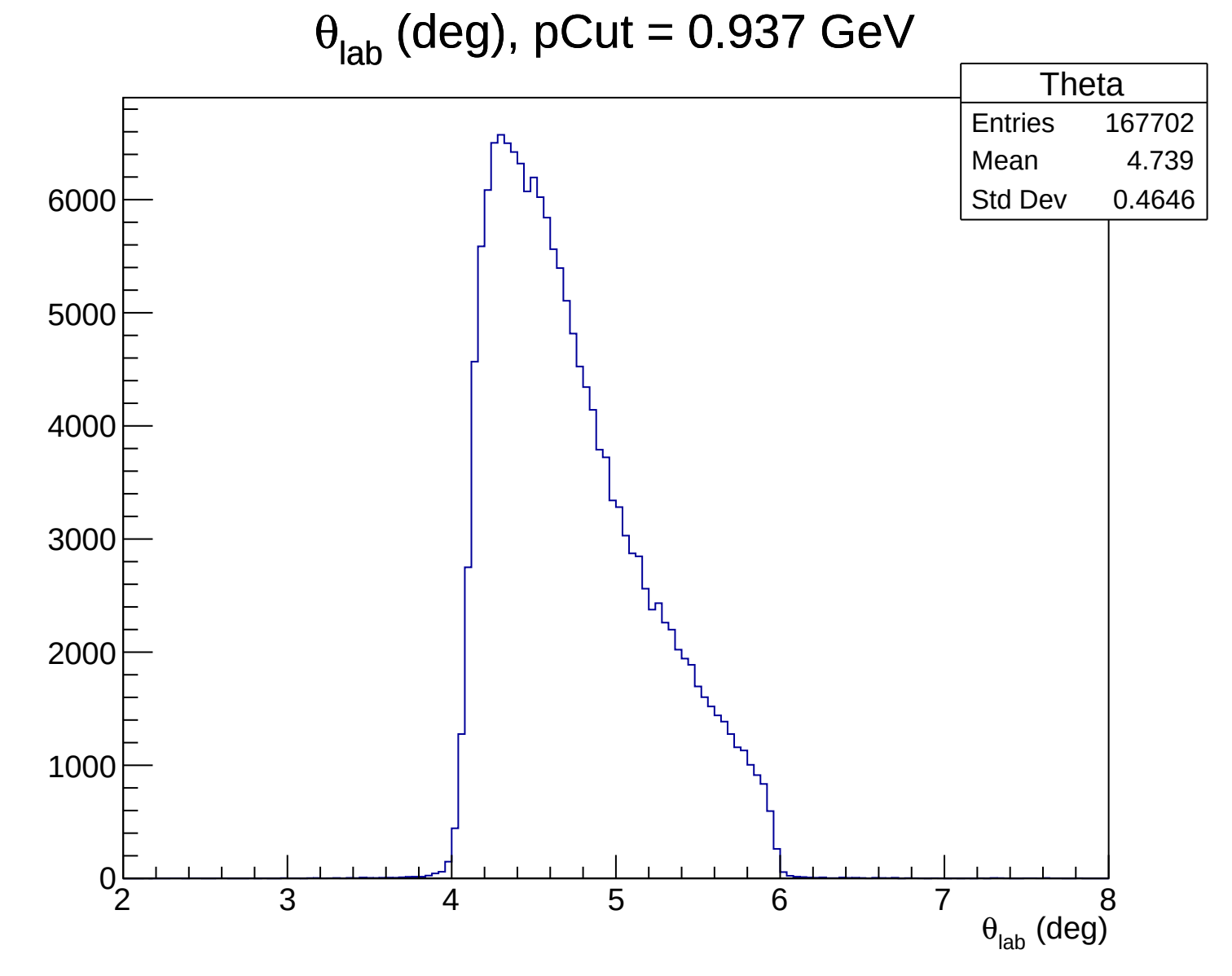

Sensitivity, pCut = 0.936 GeV
sens
Entries 170573
Mean 0.02187
Std Dev 0.00402
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

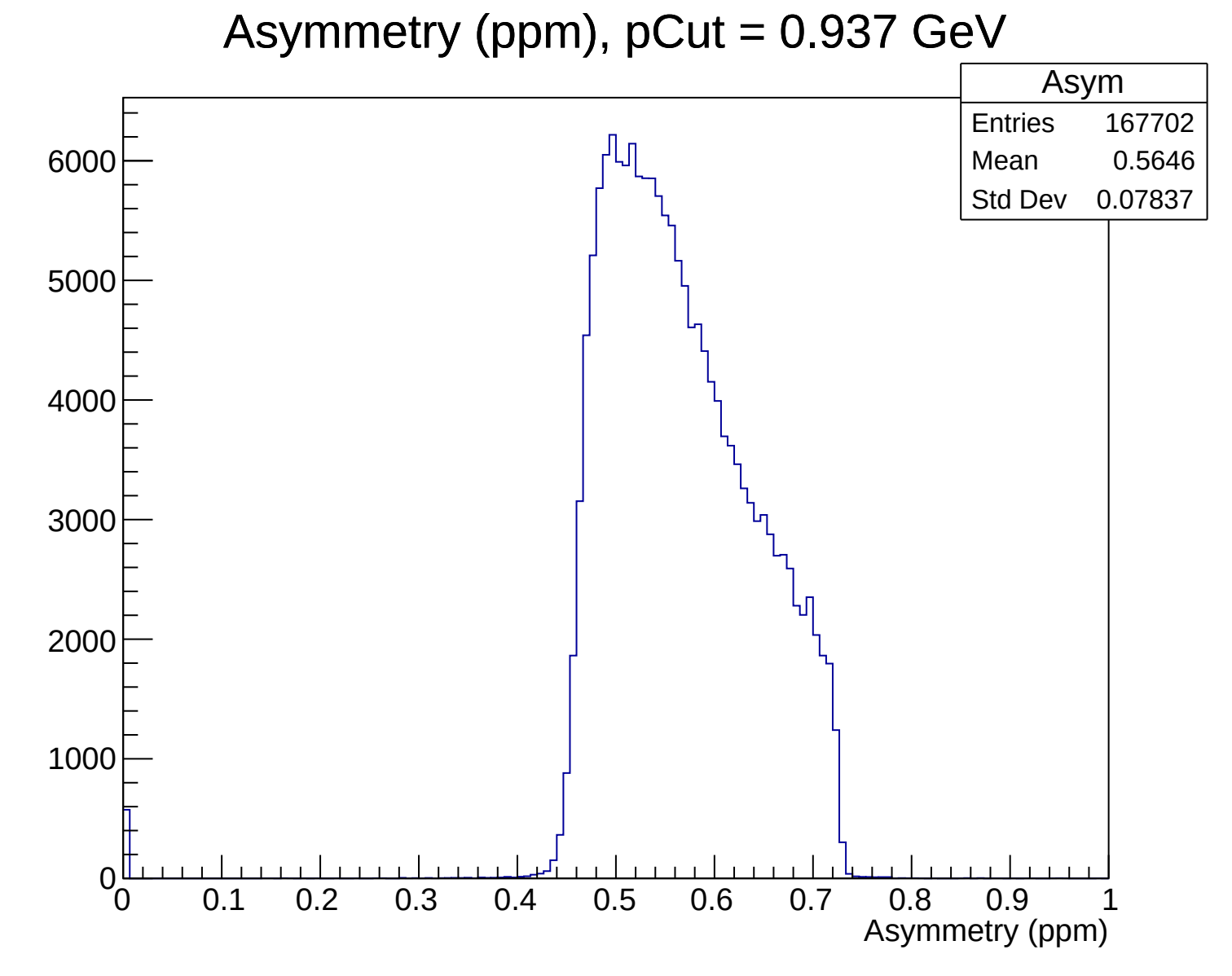
ADC raw (run2322, detZ = 1.3 m)

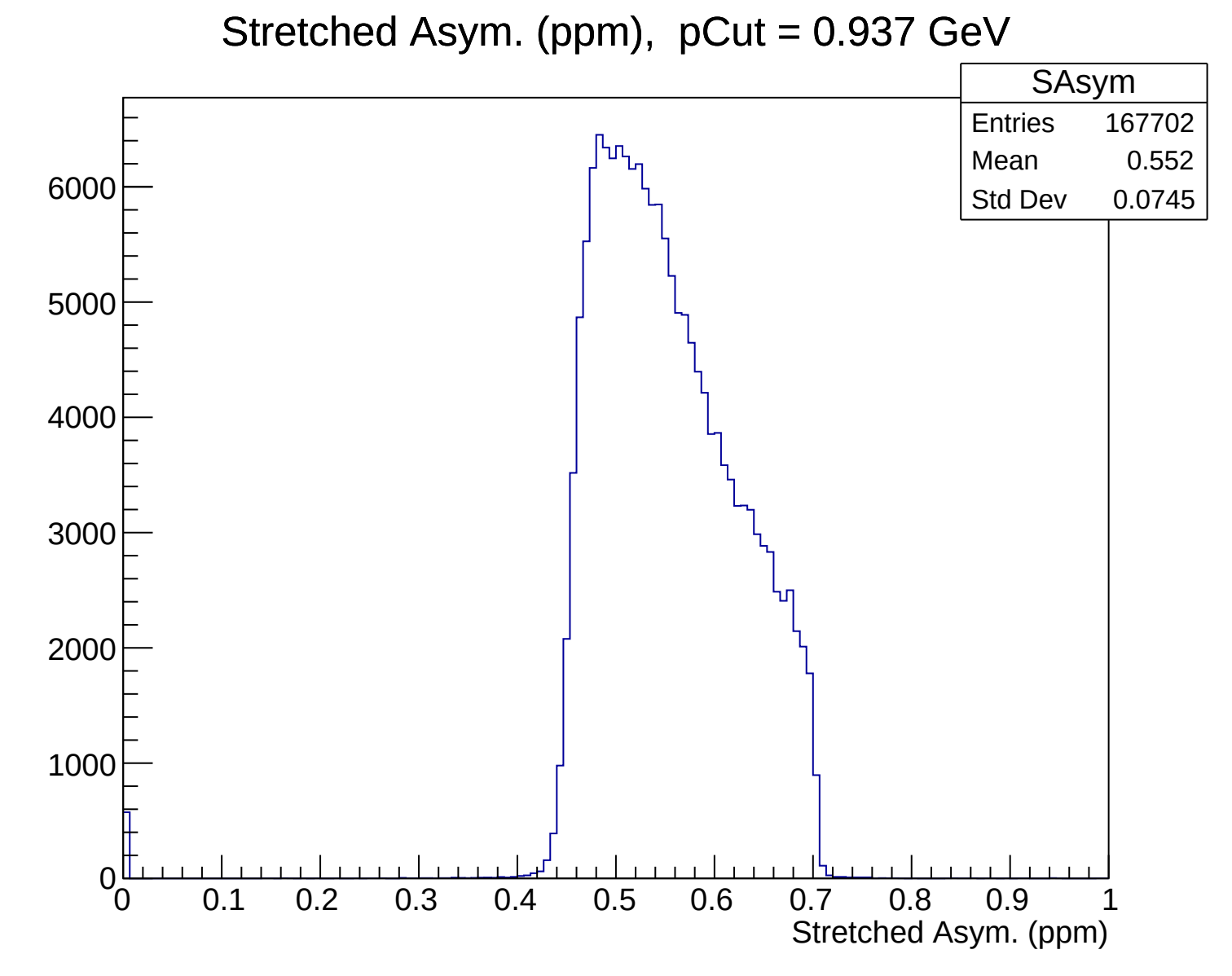


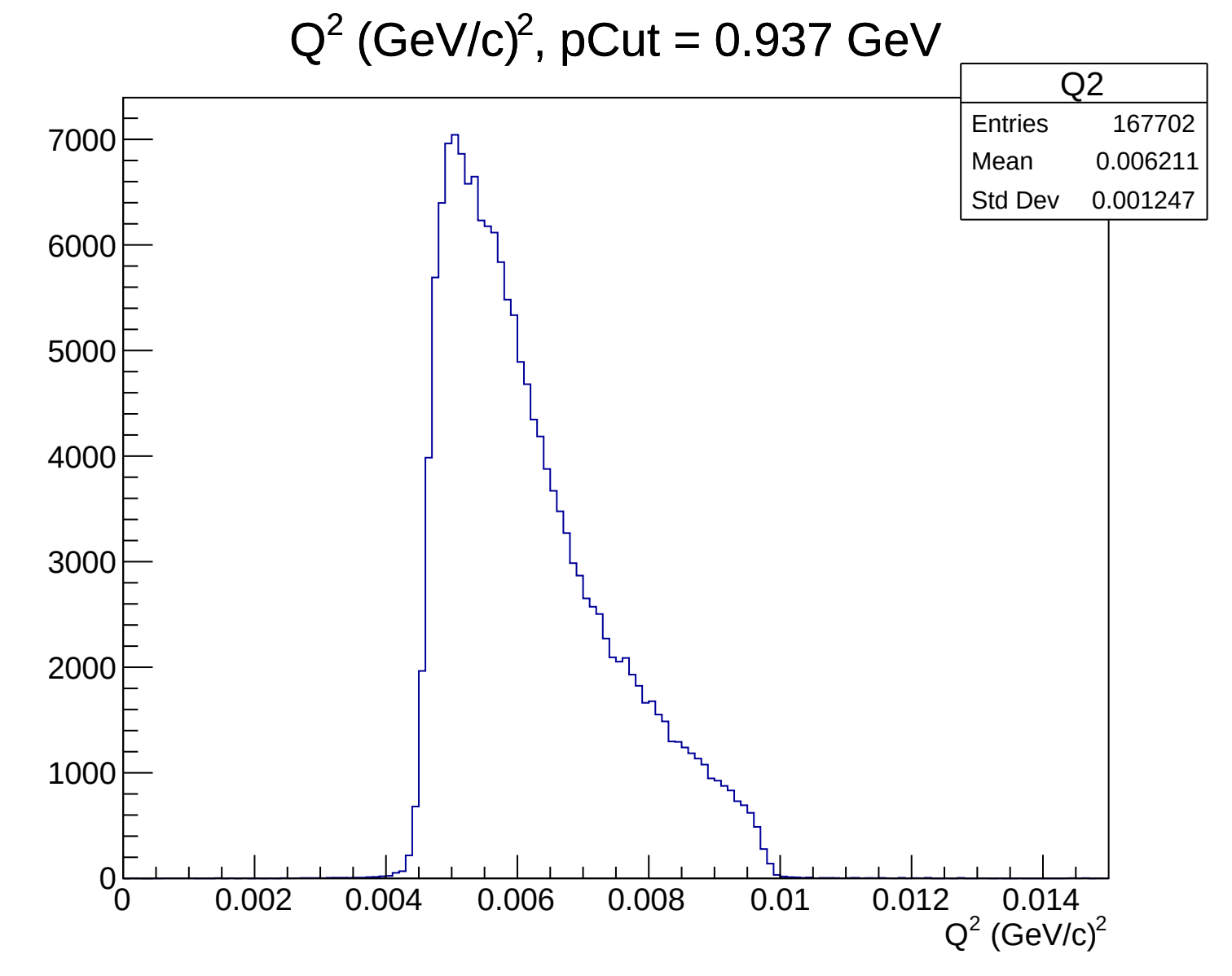

LHRS momentum run2322

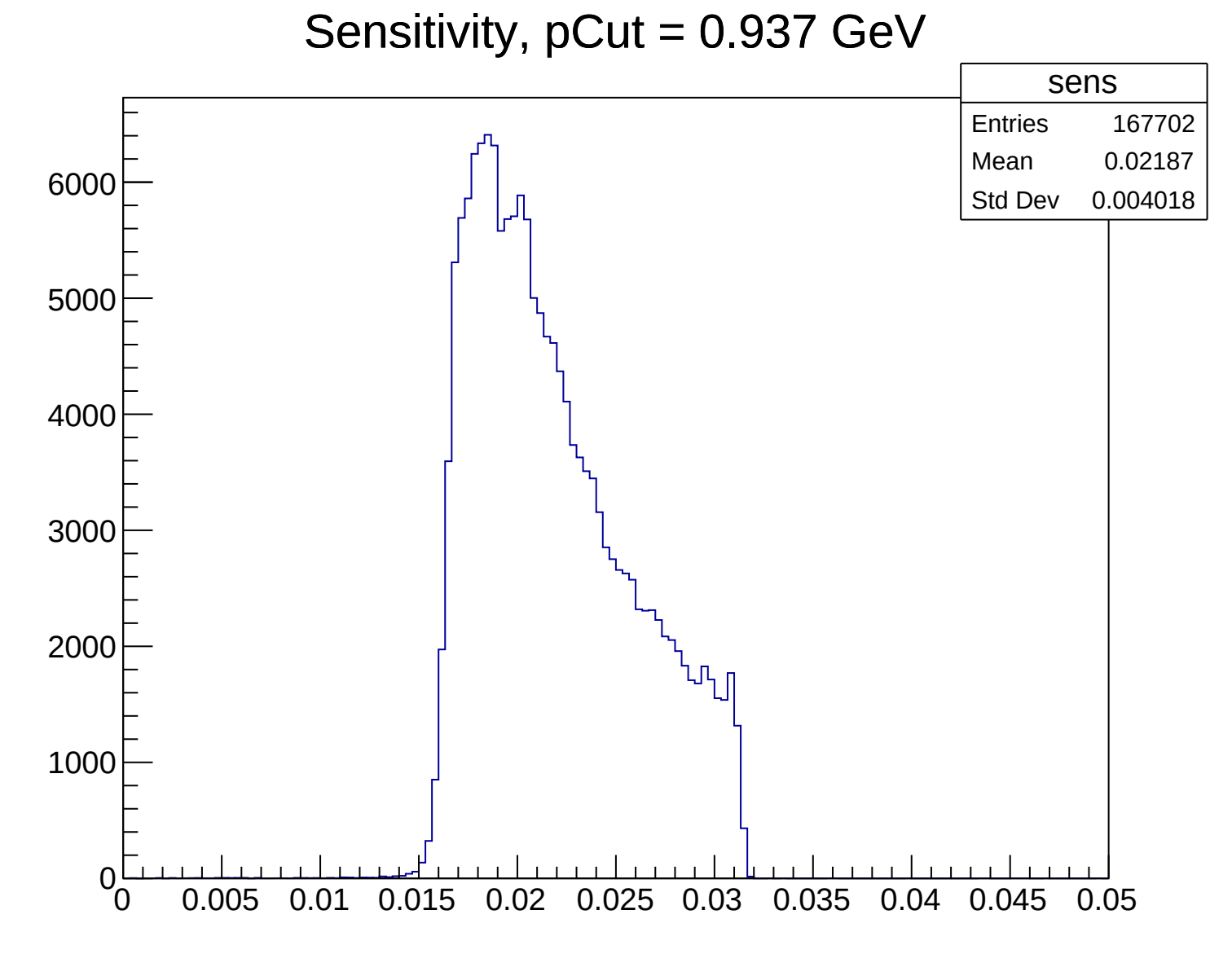



θlab (deg), pCut = 0.937 GeV
Theta
Entries 167702
Mean 4.739
Std Dev 0.4646
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

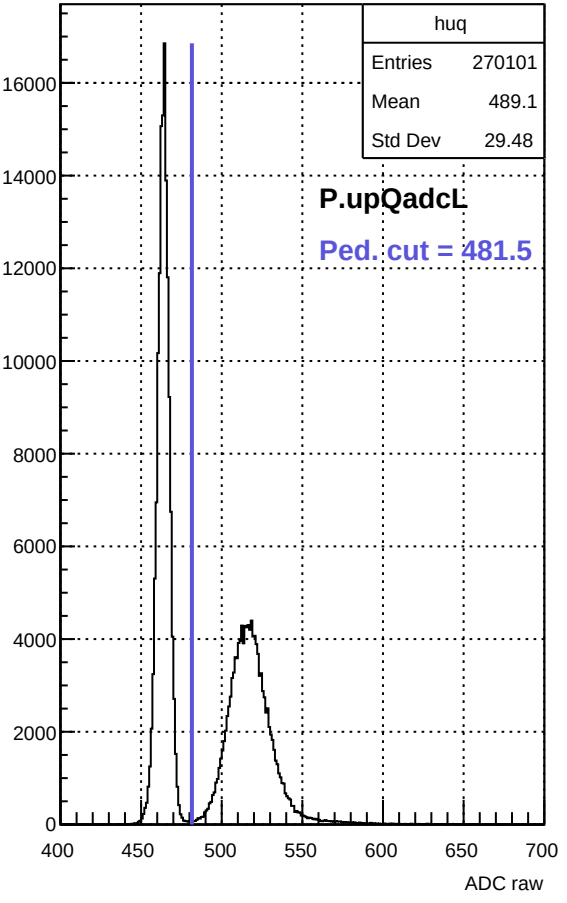

Asymmetry (ppm), pCut = 0.937 GeV
Asym
Entries 167702
Mean 0.5646
Std Dev 0.07837
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.937 GeV
SAsym
Entries 167702
Mean 0.552
Std Dev 0.0745
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

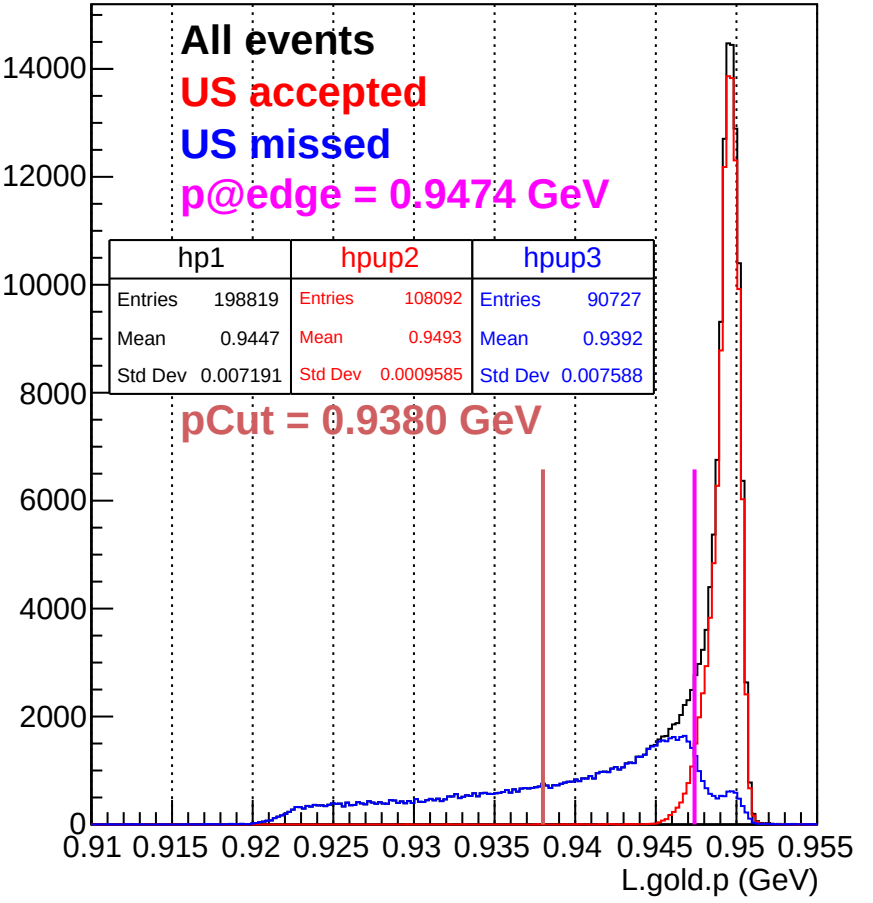

$Q^2$ (GeV/c)$^2$, pCut = 0.937 GeV
Q2
Entries 167702
Mean 0.006211
Std Dev 0.001247
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

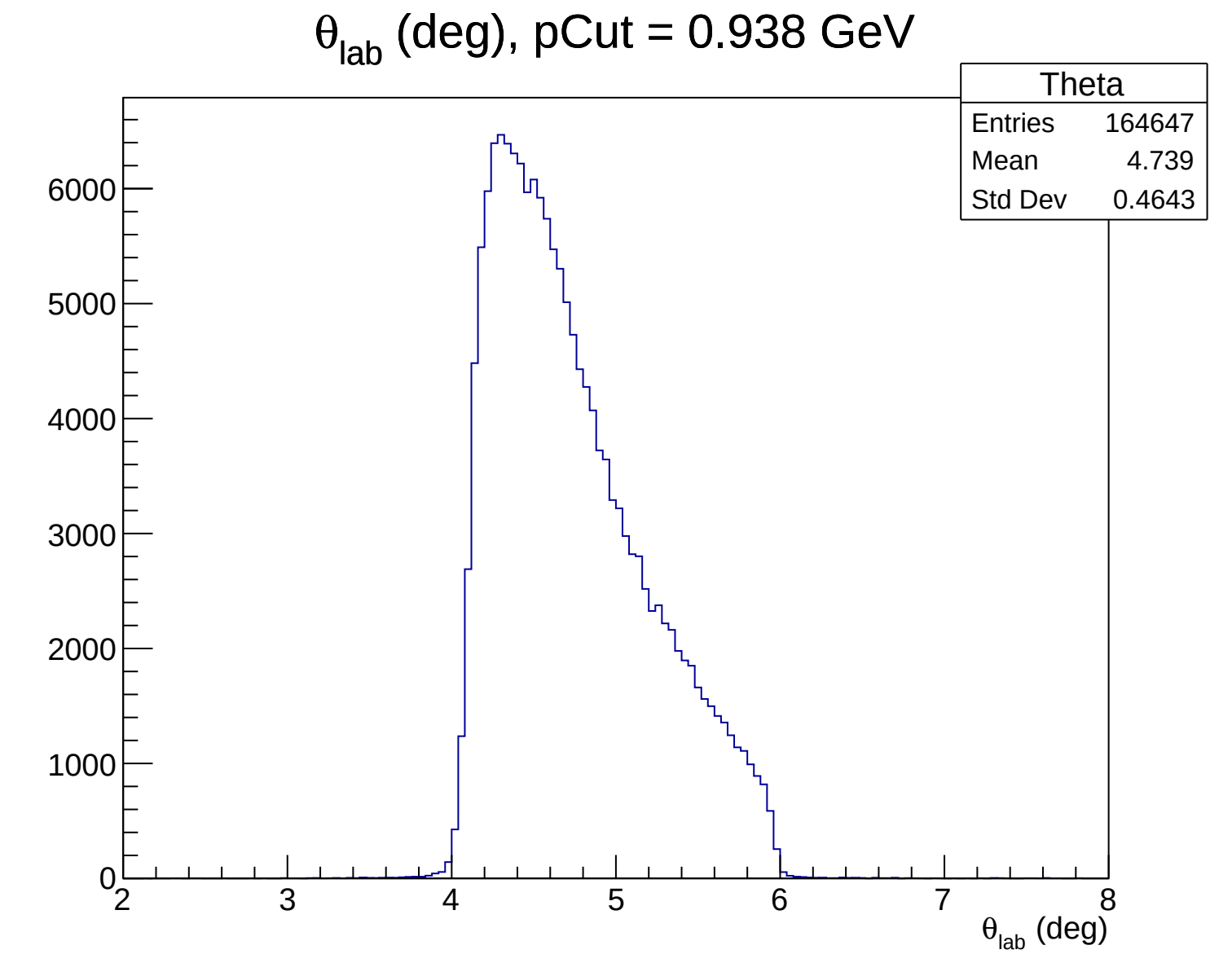

Sensitivity, pCut = 0.937 GeV
sens
Entries 167702
Mean 0.02187
Std Dev 0.004018
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

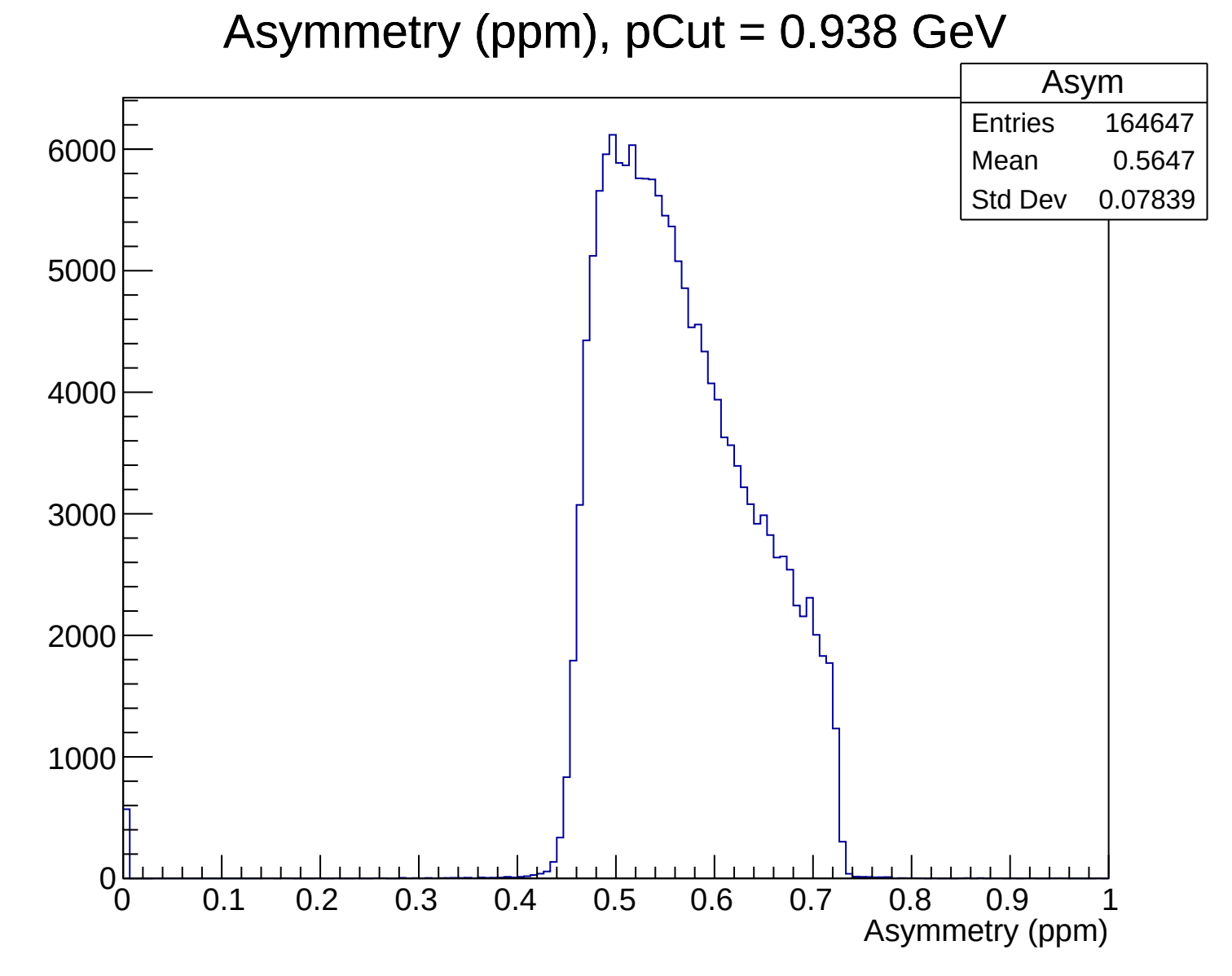
ADC raw (run2322, detZ = 1.3 m)

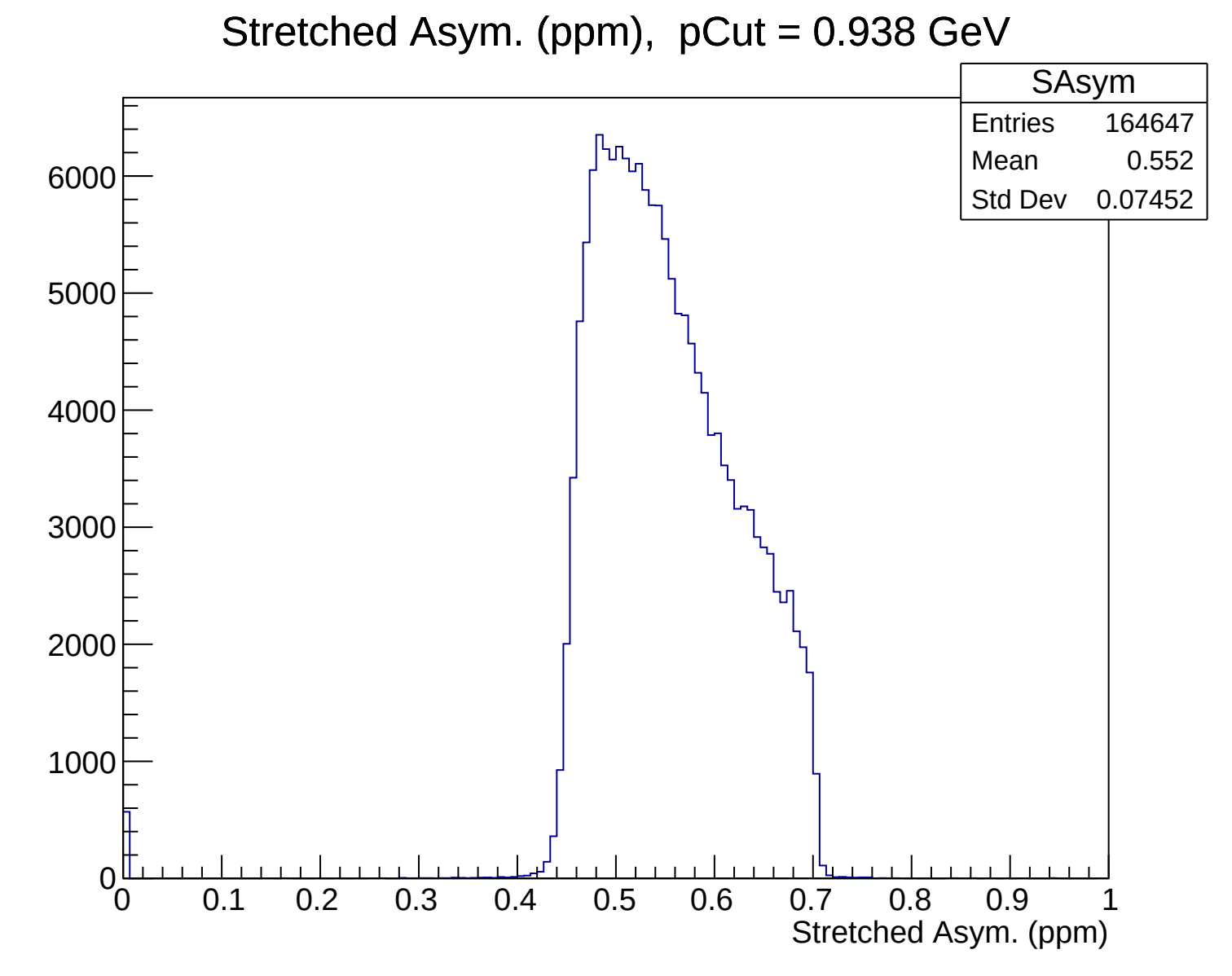


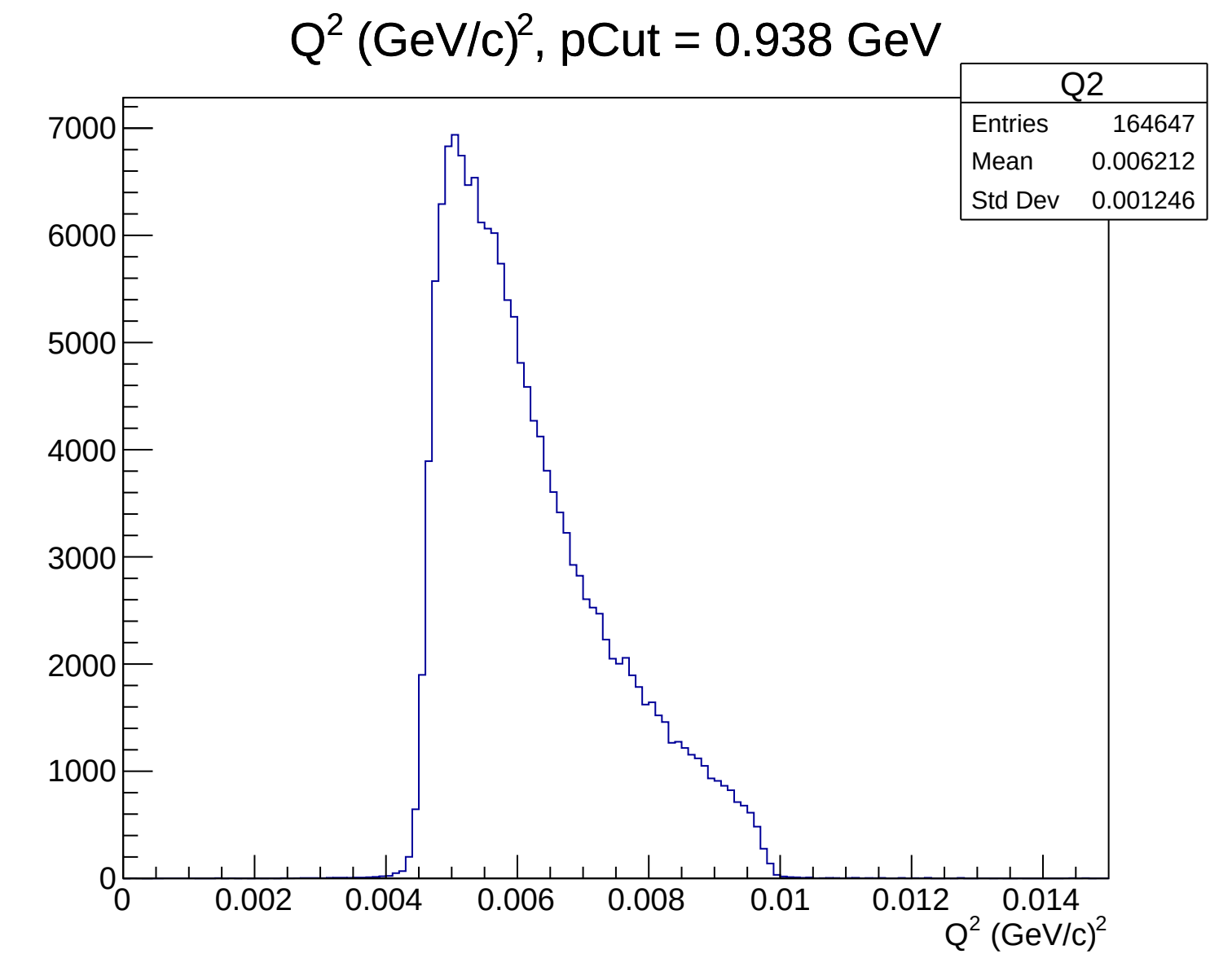

LHRS momentum run2322

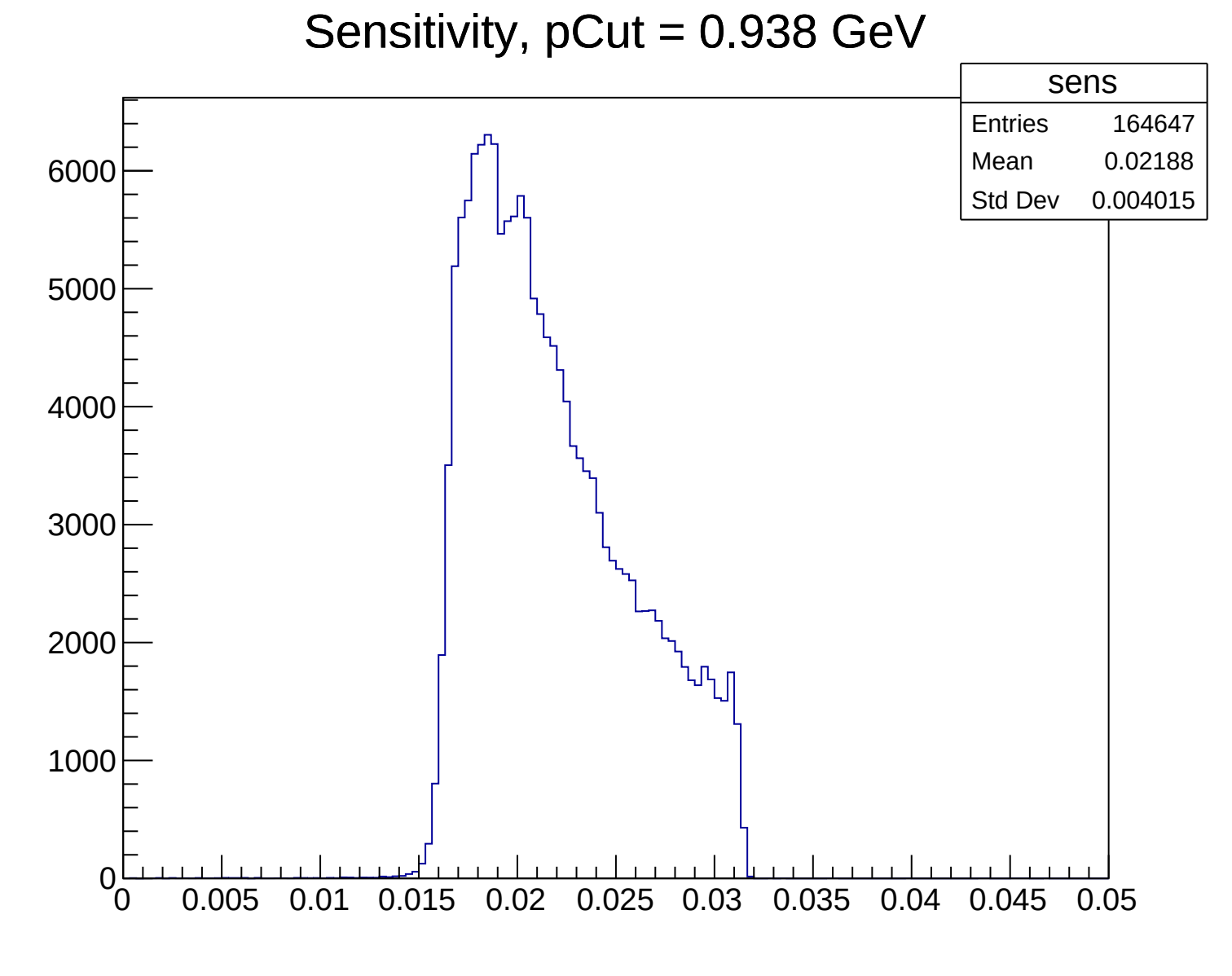



θlab (deg), pCut = 0.938 GeV
Theta
Entries 164647
Mean 4.739
Std Dev 0.4643
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

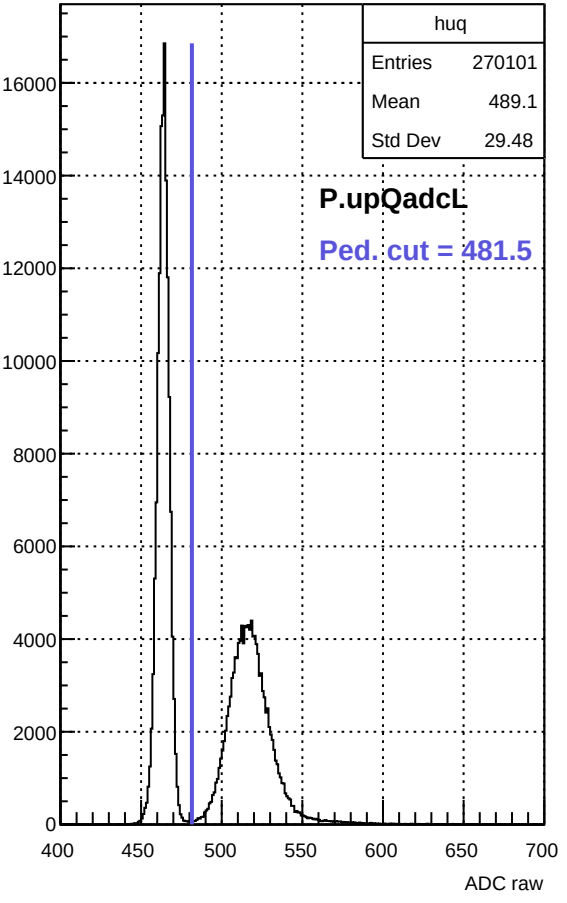

Asymmetry (ppm), pCut = 0.938 GeV
Asym
Entries 164647
Mean 0.5647
Std Dev 0.07839
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.938 GeV
SAsym
Entries 164647
Mean 0.552
Std Dev 0.07452
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

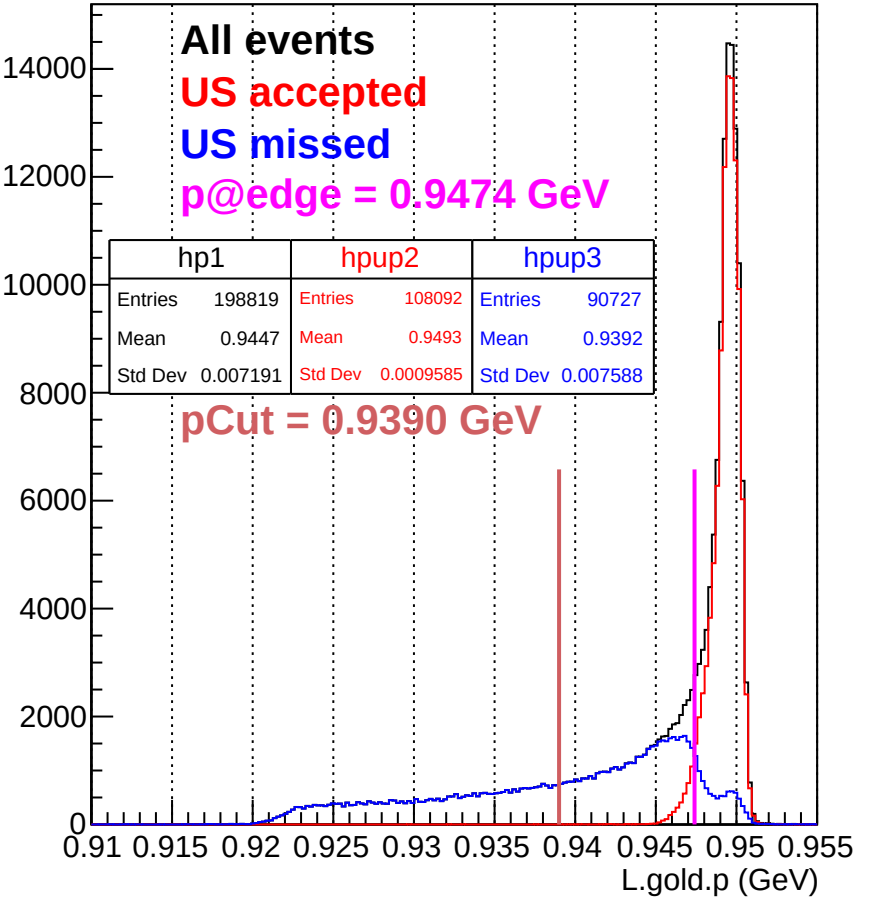

$Q^2$ (GeV/c)$^2$, pCut = 0.938 GeV
Q2
Entries 164647
Mean 0.006212
Std Dev 0.001246
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

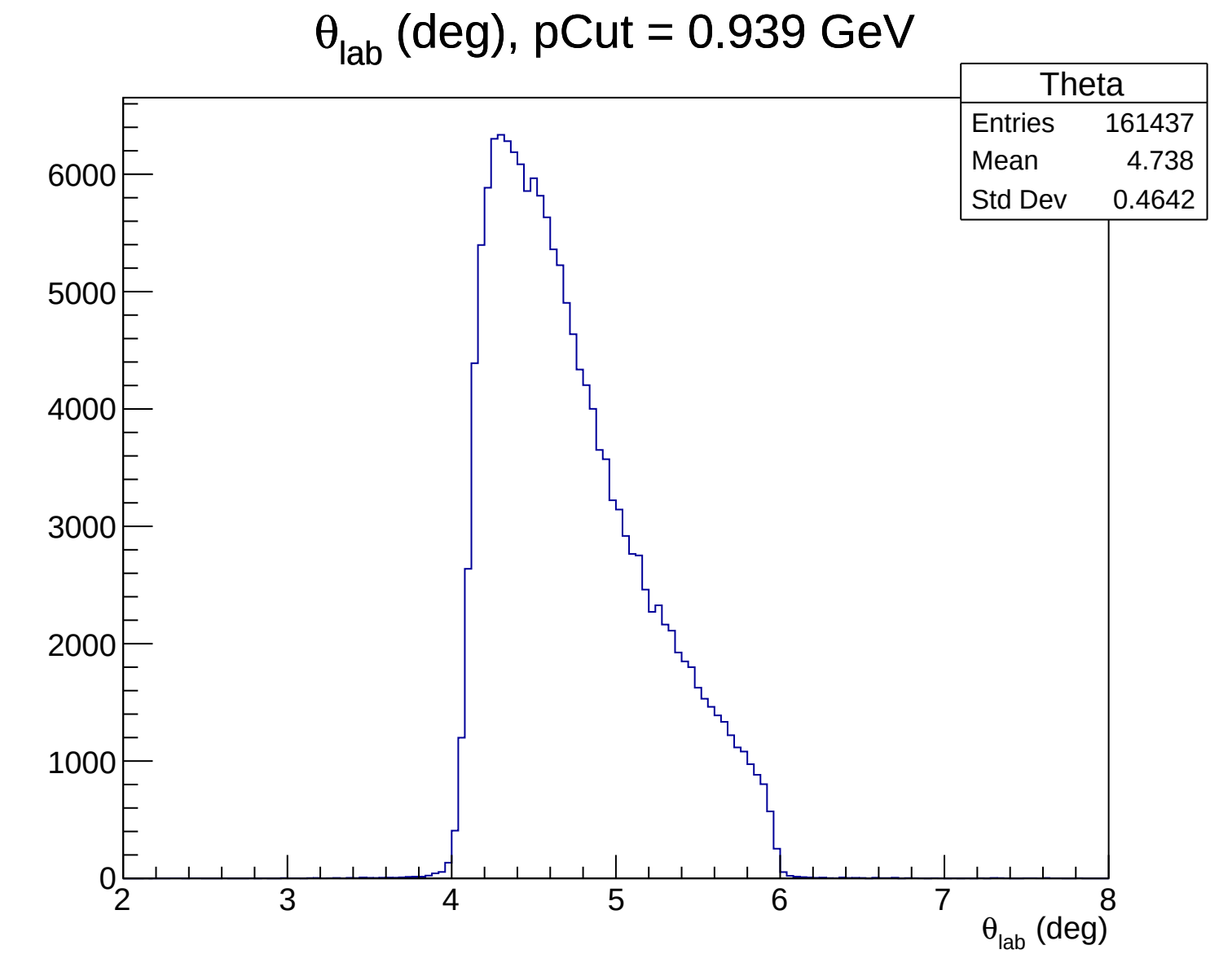

Sensitivity, pCut = 0.938 GeV
sens
Entries 164647
Mean 0.02188
Std Dev 0.004015
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

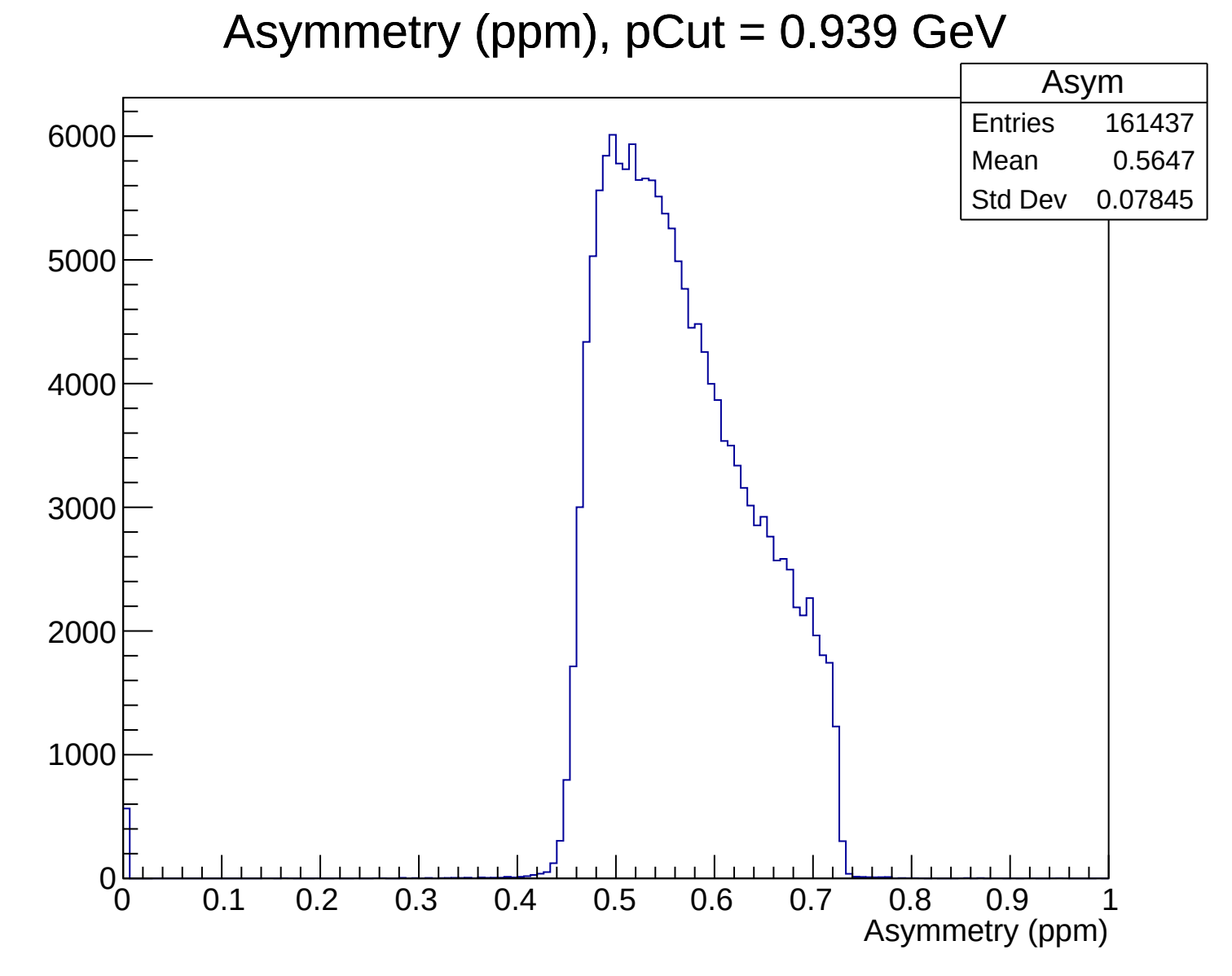
ADC raw (run2322, detZ = 1.3 m)

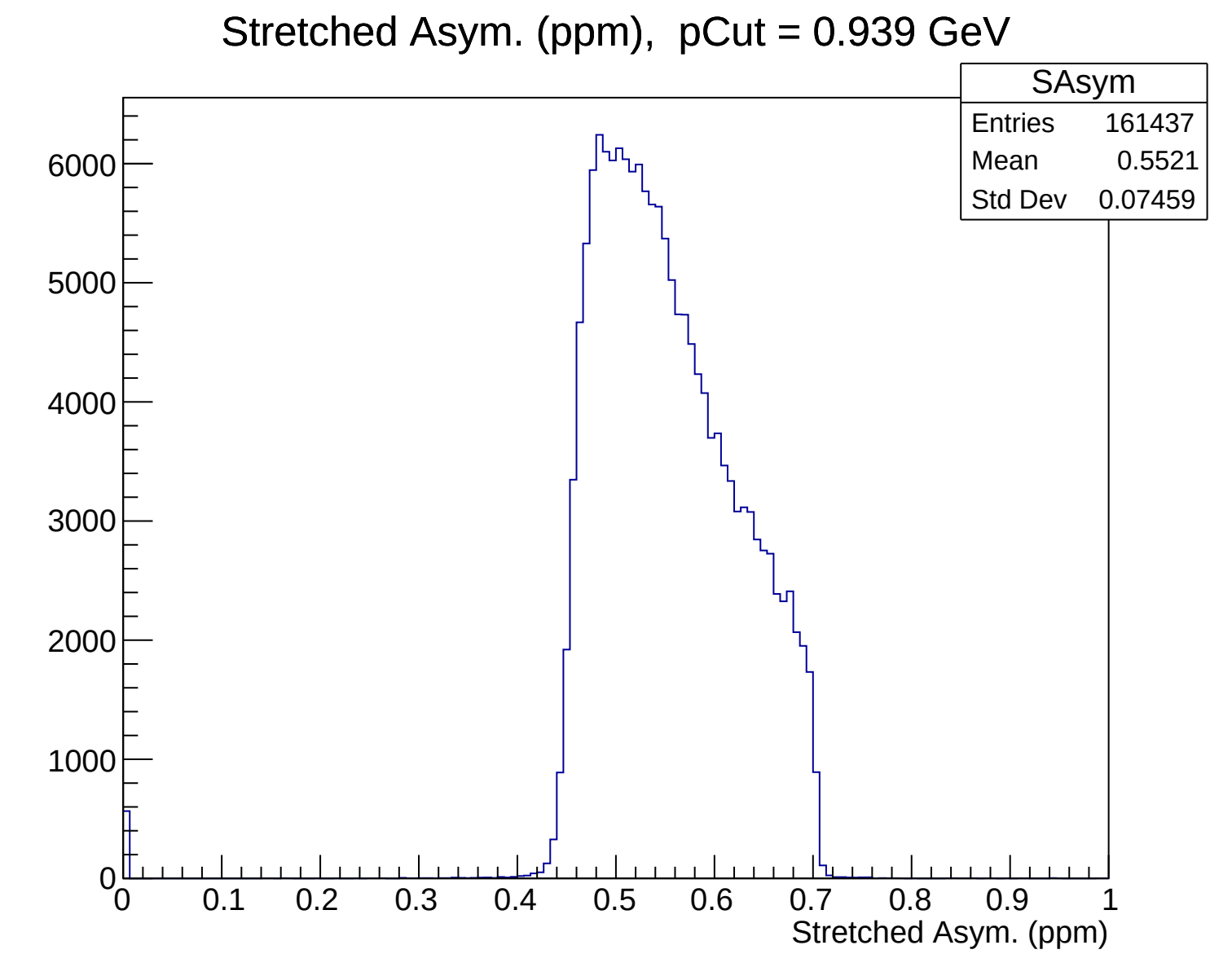


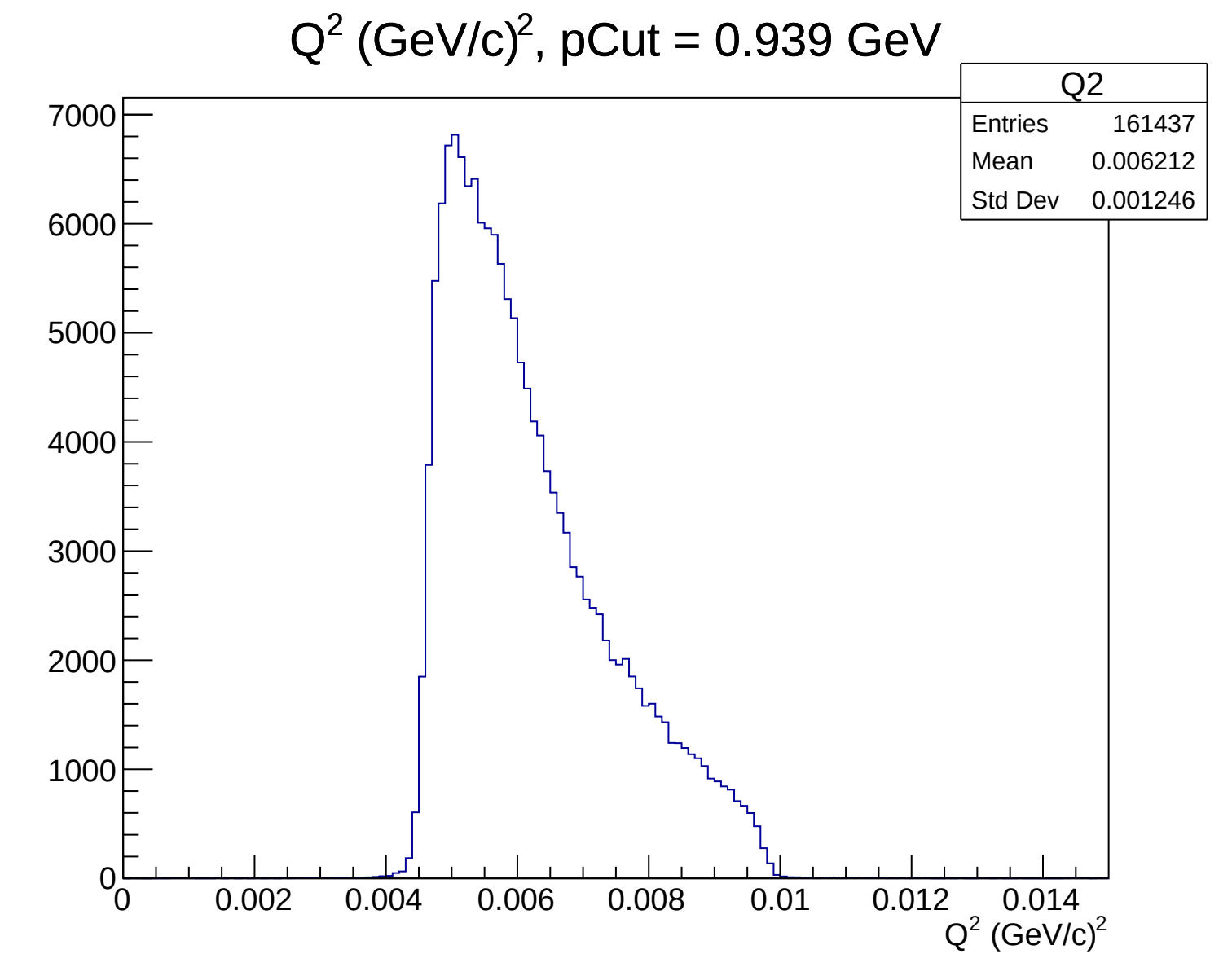

LHRS momentum run2322

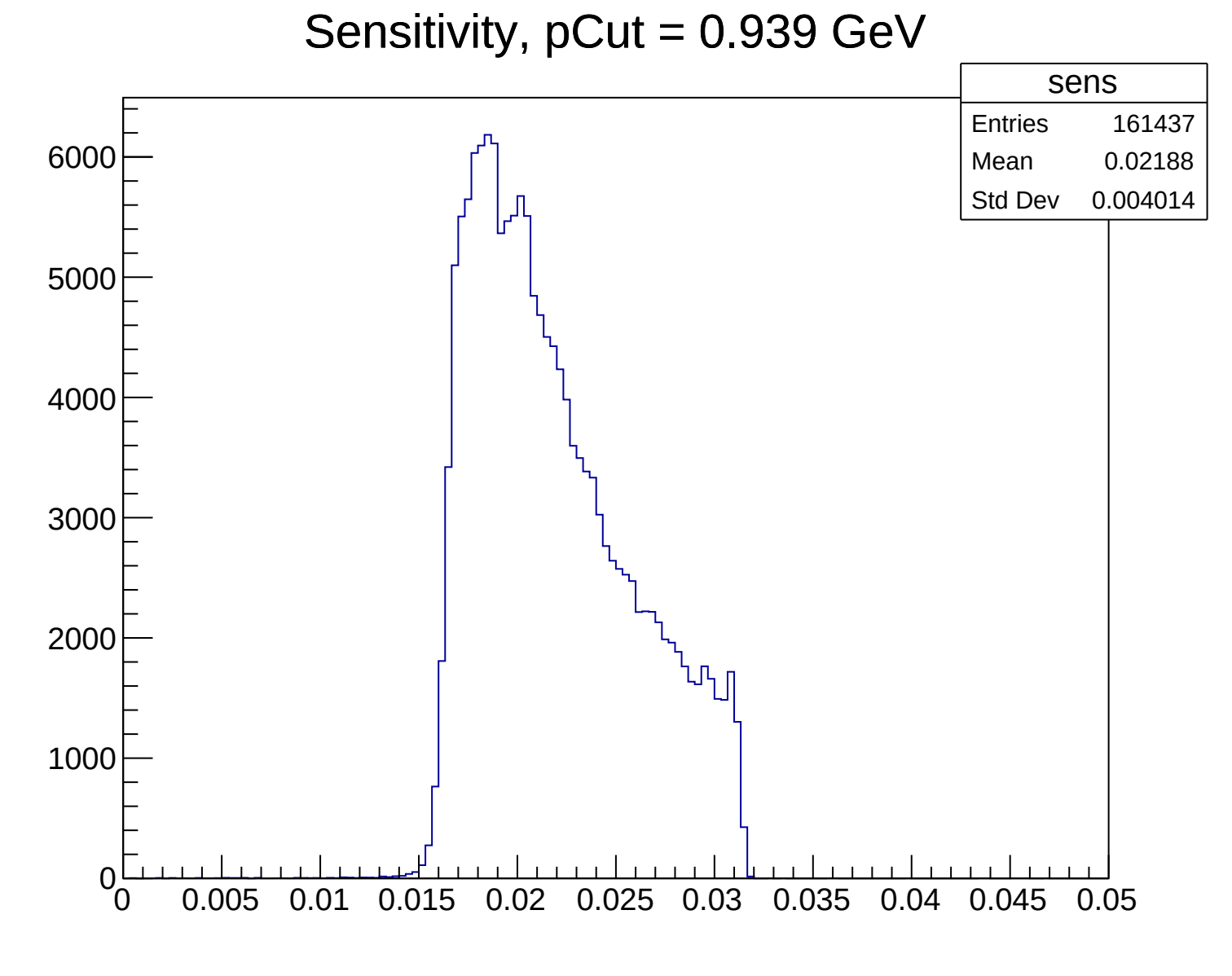



θlab (deg), pCut = 0.939 GeV
Theta
Entries 161437
Mean 4.738
Std Dev 0.4642
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

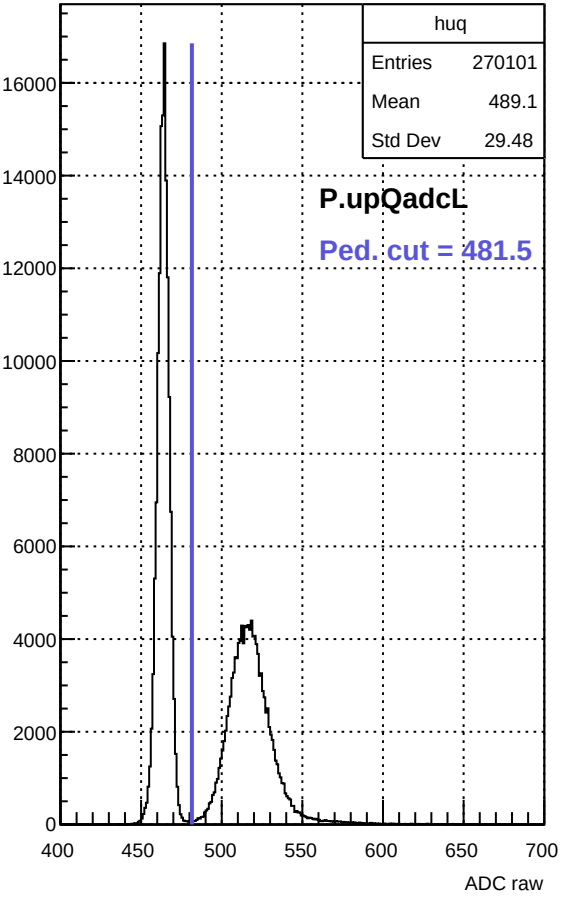

Asymmetry (ppm), pCut = 0.939 GeV
Asym
Entries 161437
Mean 0.5647
Std Dev 0.07845
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.939 GeV
SAsym
Entries 161437
Mean 0.5521
Std Dev 0.07459
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

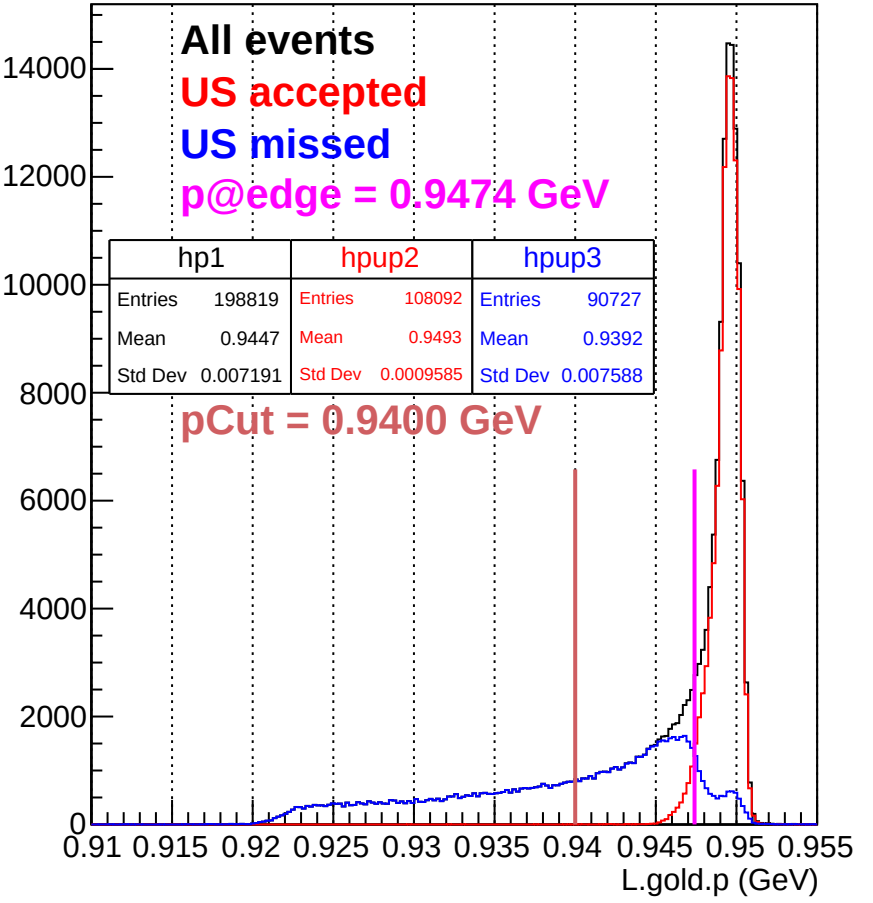

$Q^2$ (GeV/c)$^2$, pCut = 0.939 GeV
Q2
Entries 161437
Mean 0.006212
Std Dev 0.001246
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

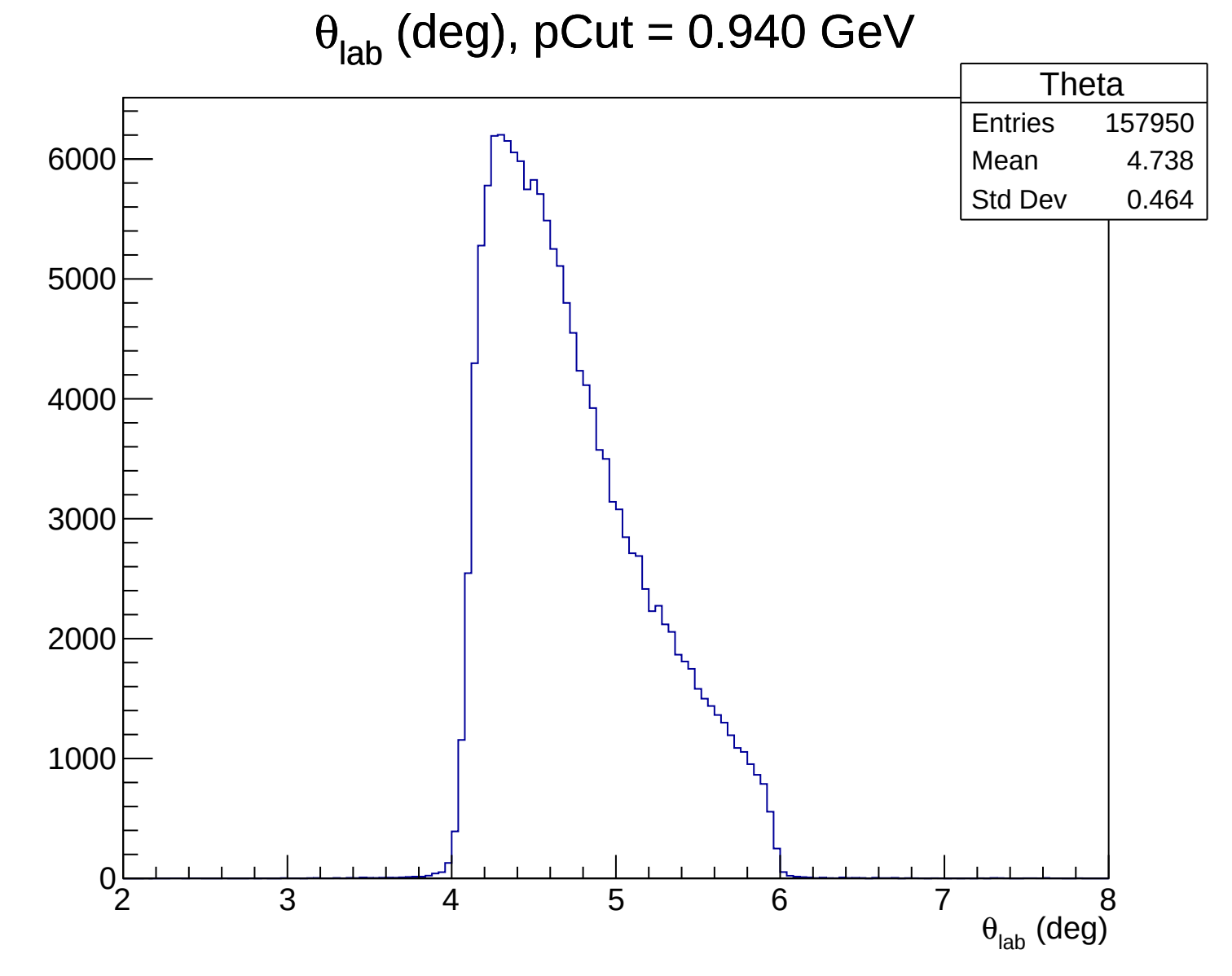

Sensitivity, pCut = 0.939 GeV
sens
Entries 161437
Mean 0.02188
Std Dev 0.004014
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

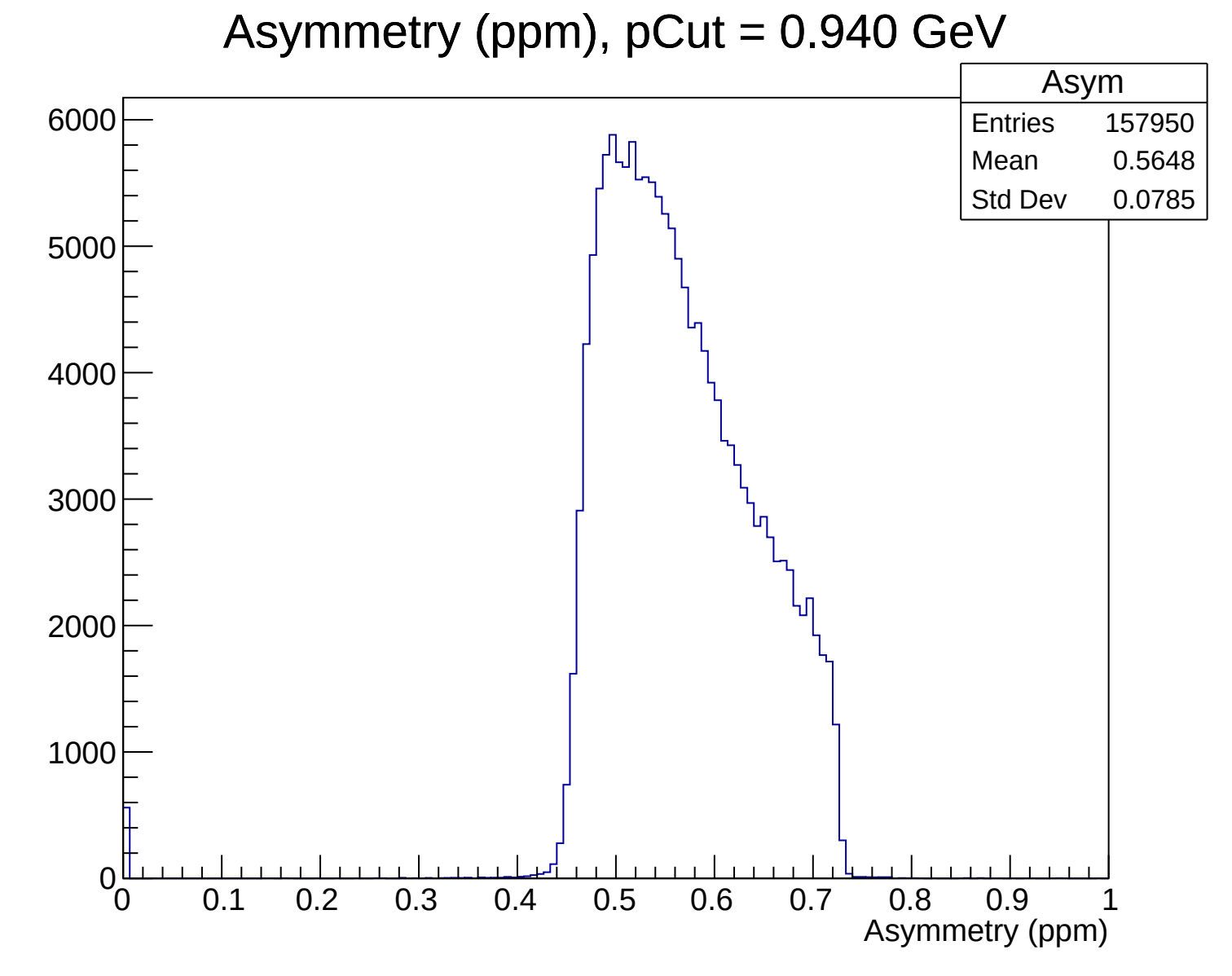
ADC raw (run2322, detZ = 1.3 m)

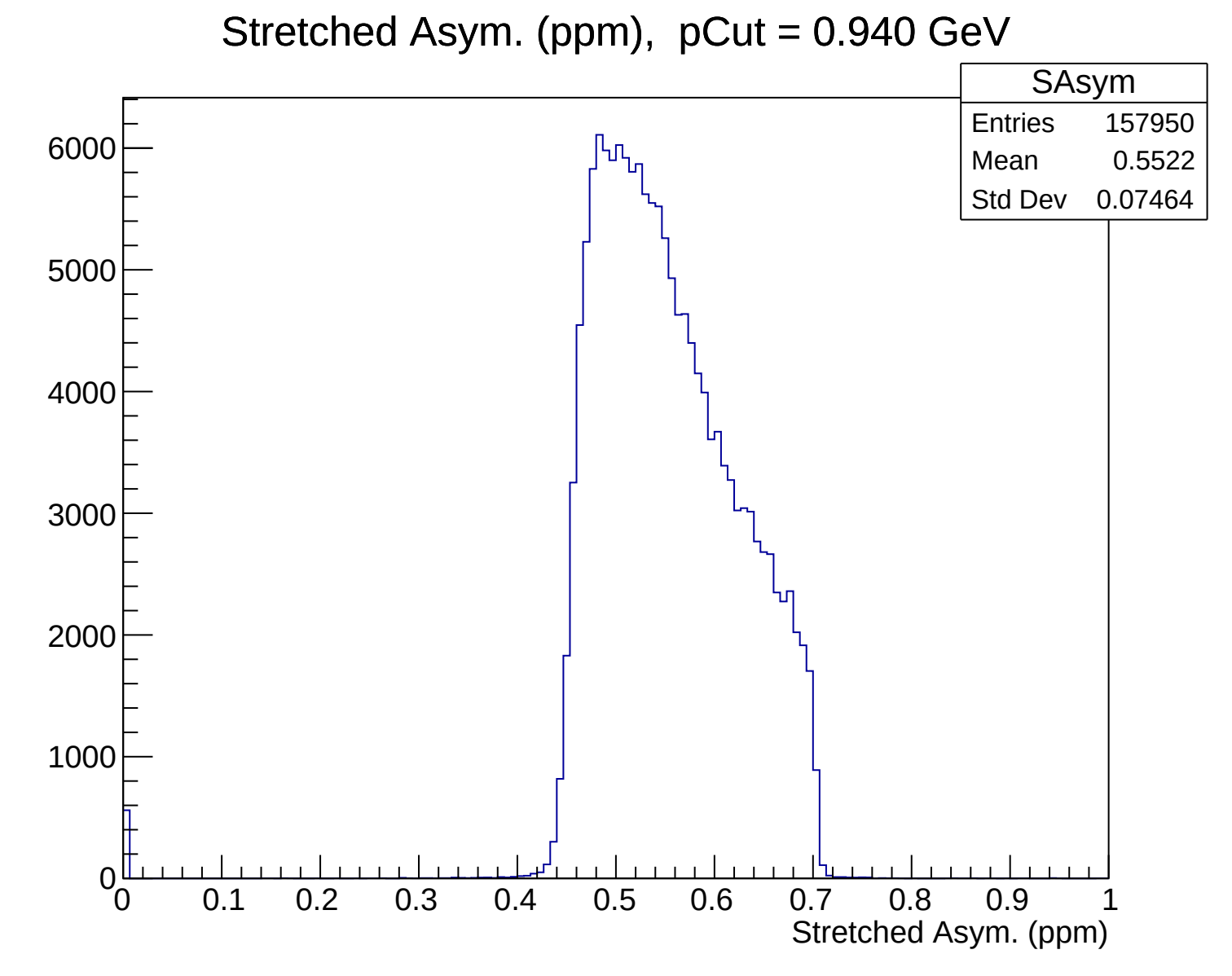


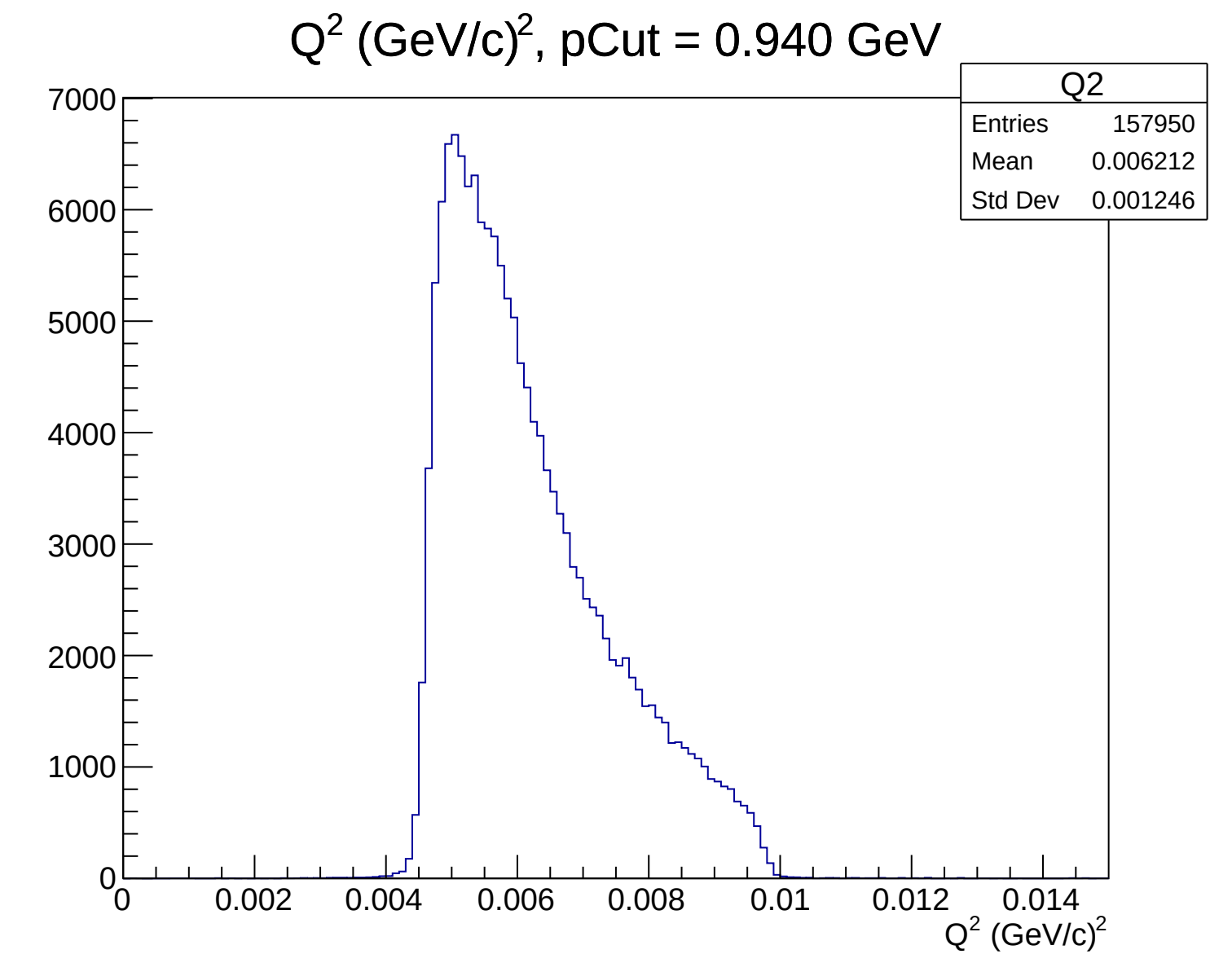

LHRS momentum run2322

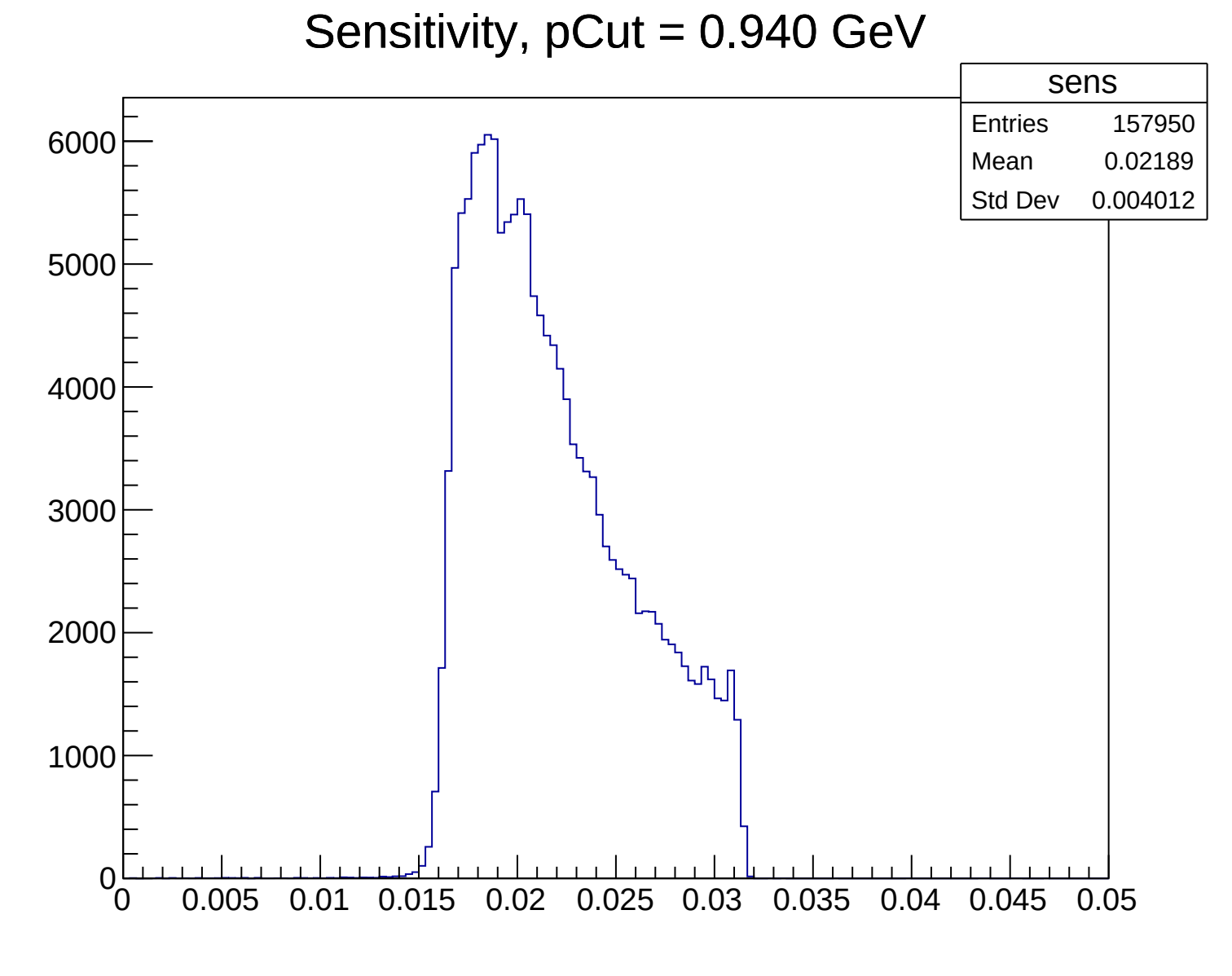



θlab (deg), pCut = 0.940 GeV
Theta
Entries 157950
Mean 4.738
Std Dev 0.464
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

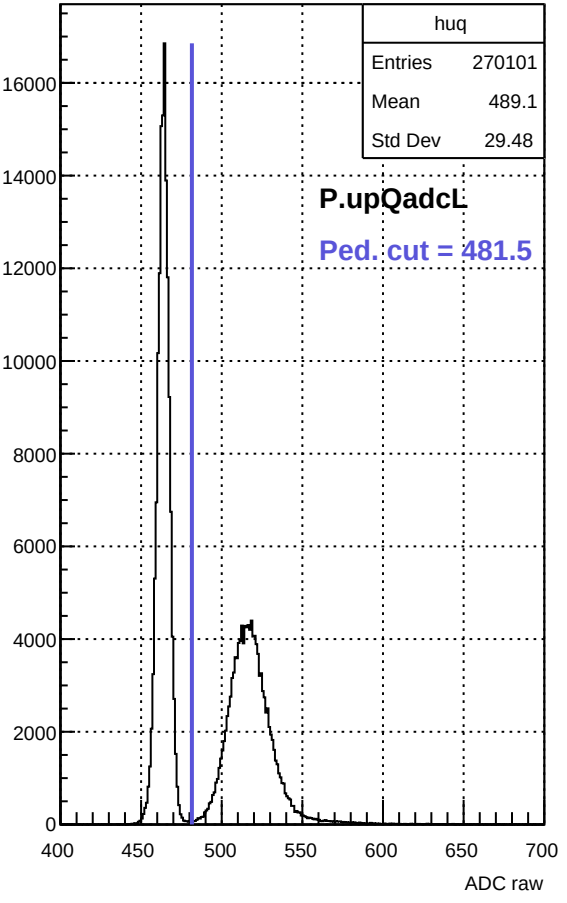

Asymmetry (ppm), pCut = 0.940 GeV
Asym
Entries 157950
Mean 0.5648
Std Dev 0.0785
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.940 GeV
SAsym
Entries 157950
Mean 0.5522
Std Dev 0.07464
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

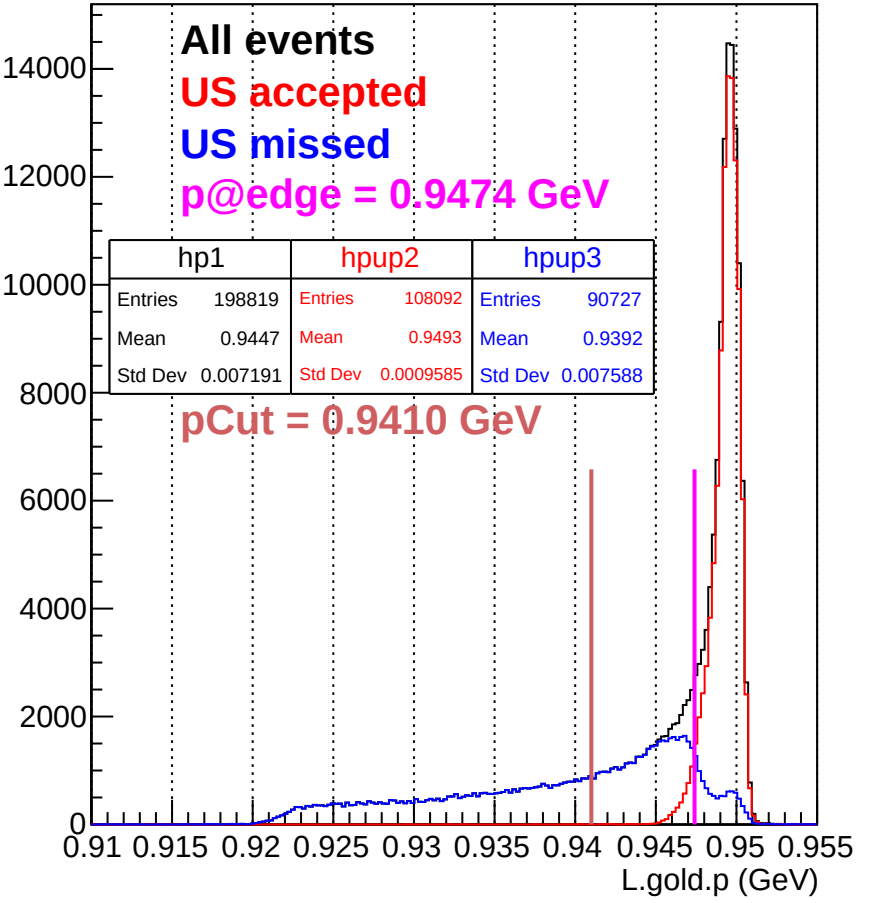

$Q^2$ (GeV/c)$^2$, pCut = 0.940 GeV
Q2
Entries 157950
Mean 0.006212
Std Dev 0.001246
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

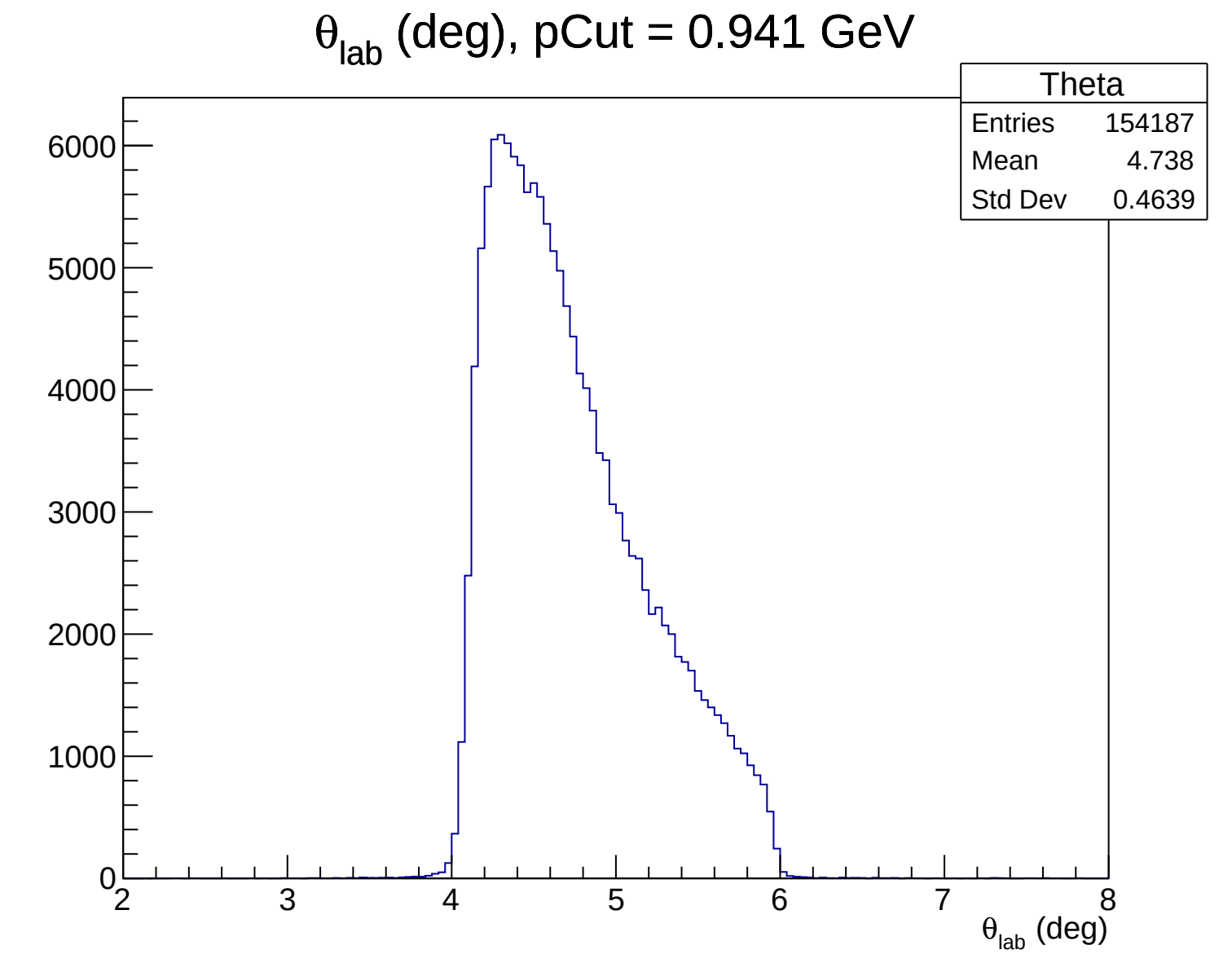

Sensitivity, pCut = 0.940 GeV
sens
Entries 157950
Mean 0.02189
Std Dev 0.004012
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

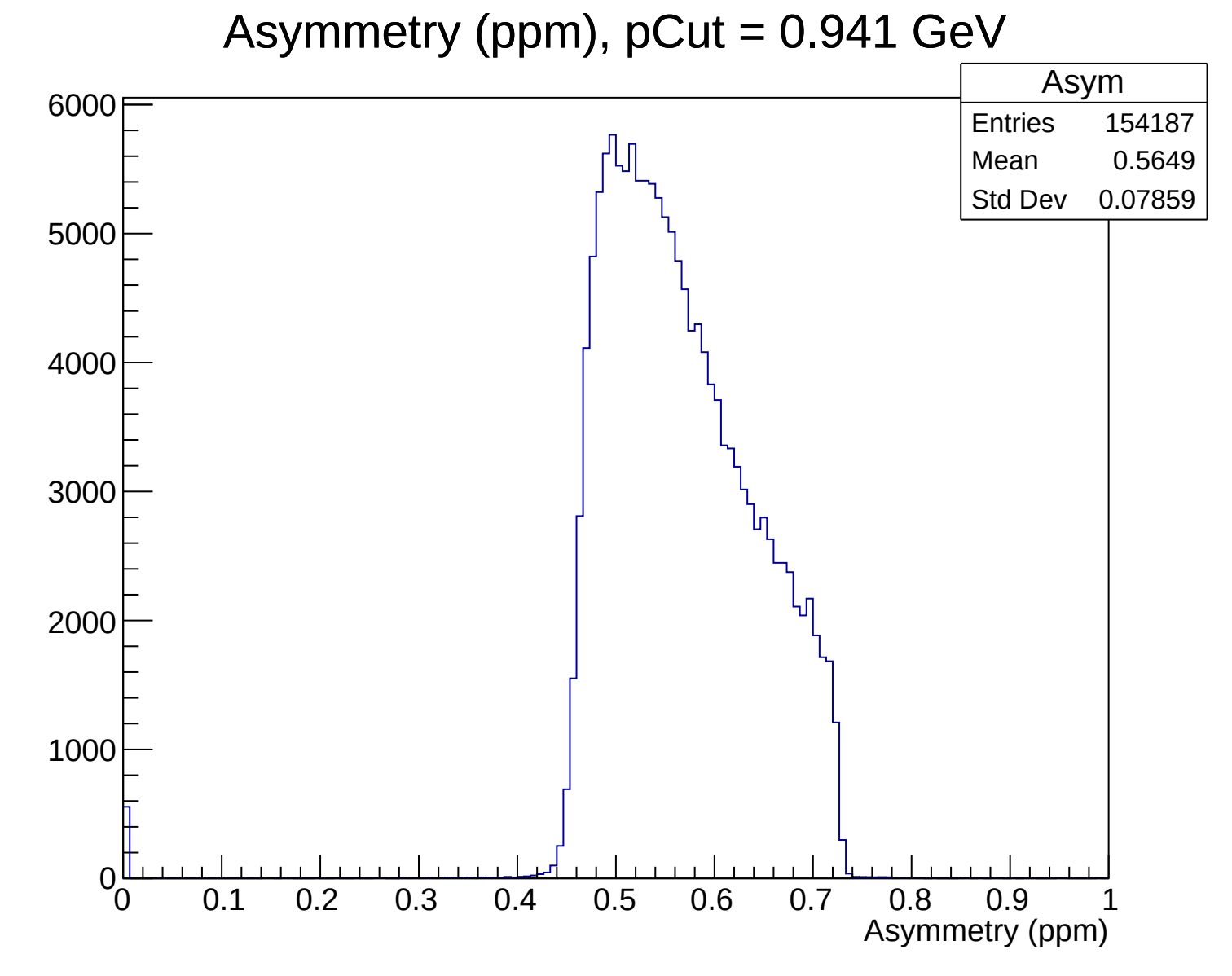
ADC raw (run2322, detZ = 1.3 m)

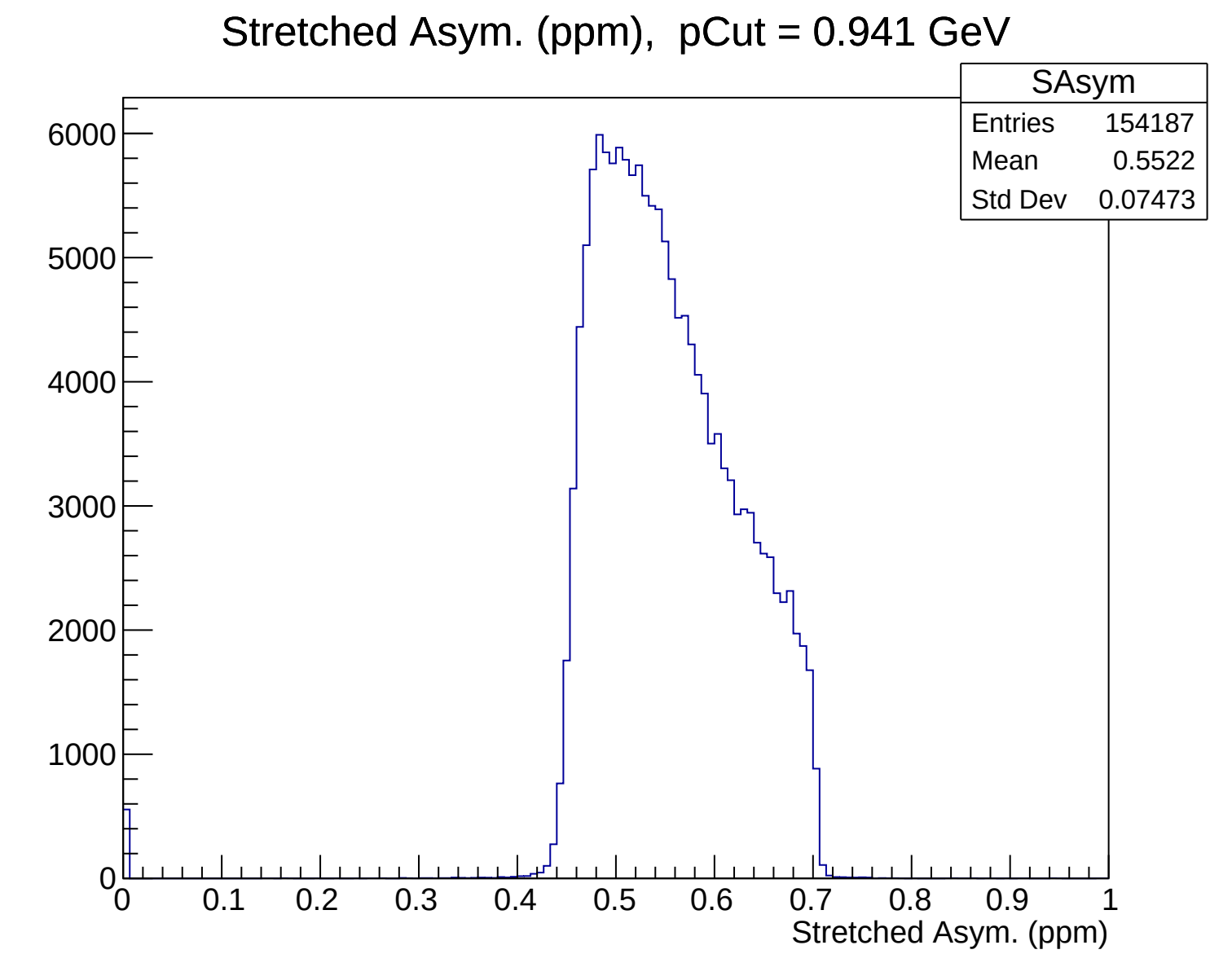


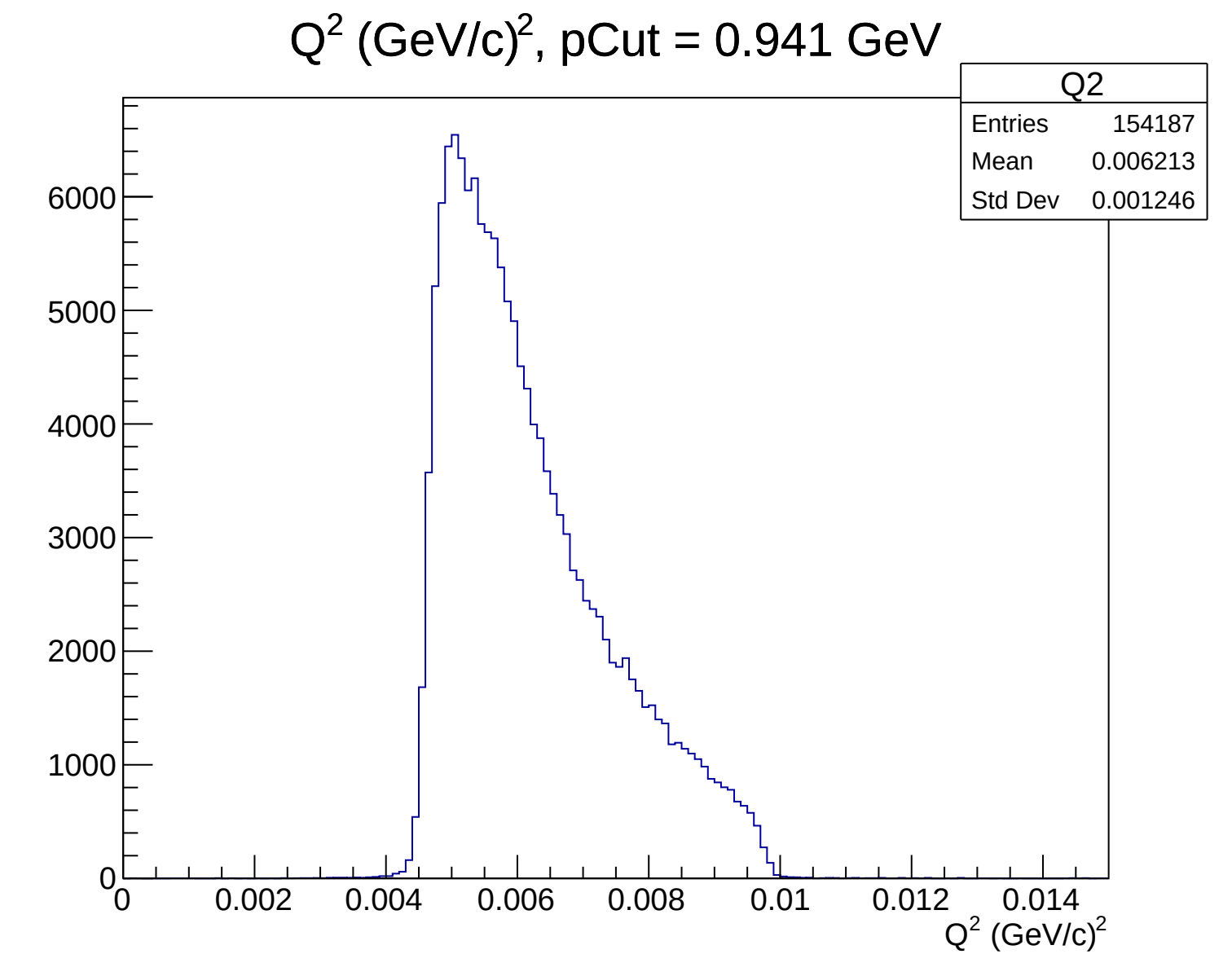

LHRS momentum run2322

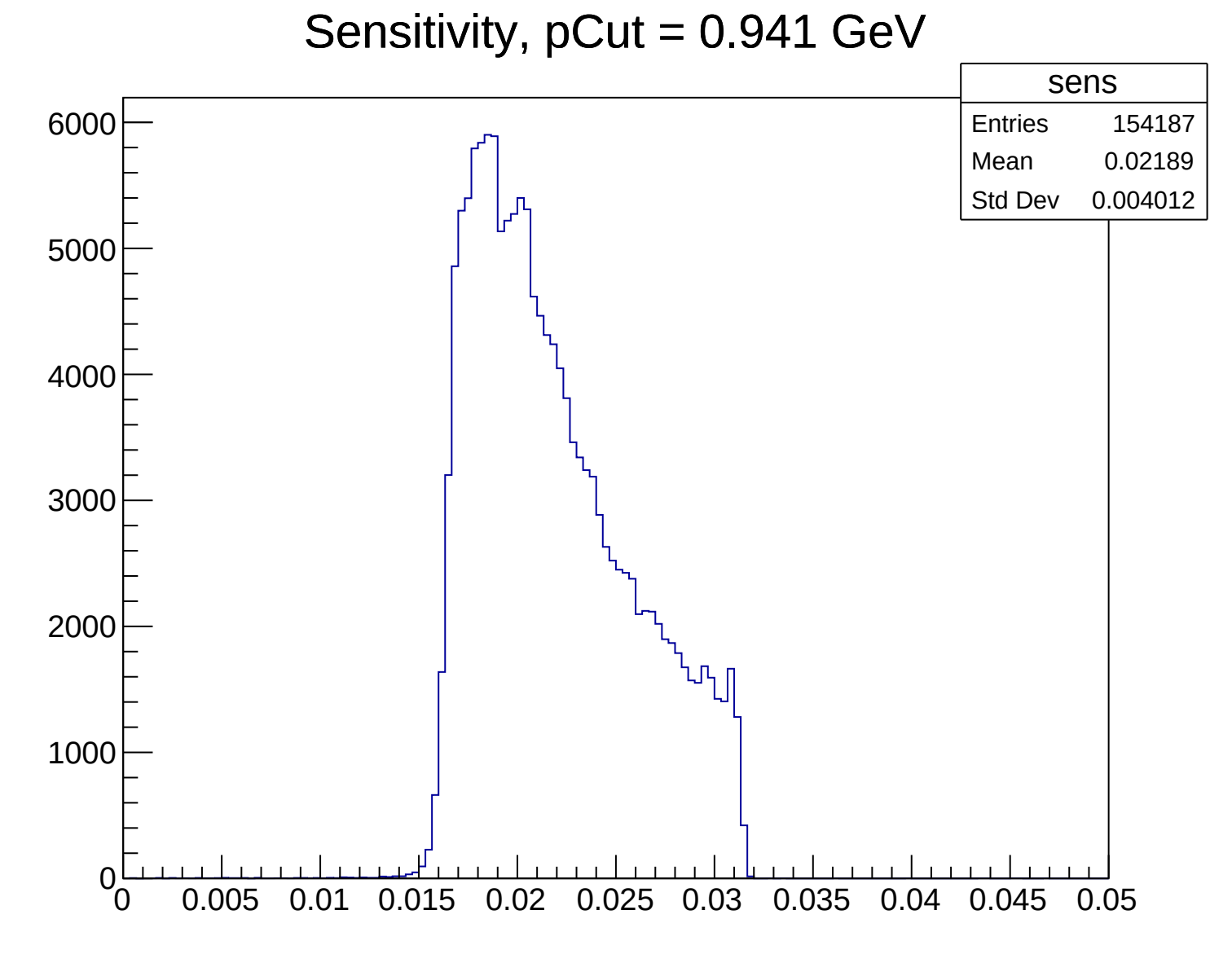



θlab (deg), pCut = 0.941 GeV
Theta
Entries 154187
Mean 4.738
Std Dev 0.4639
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

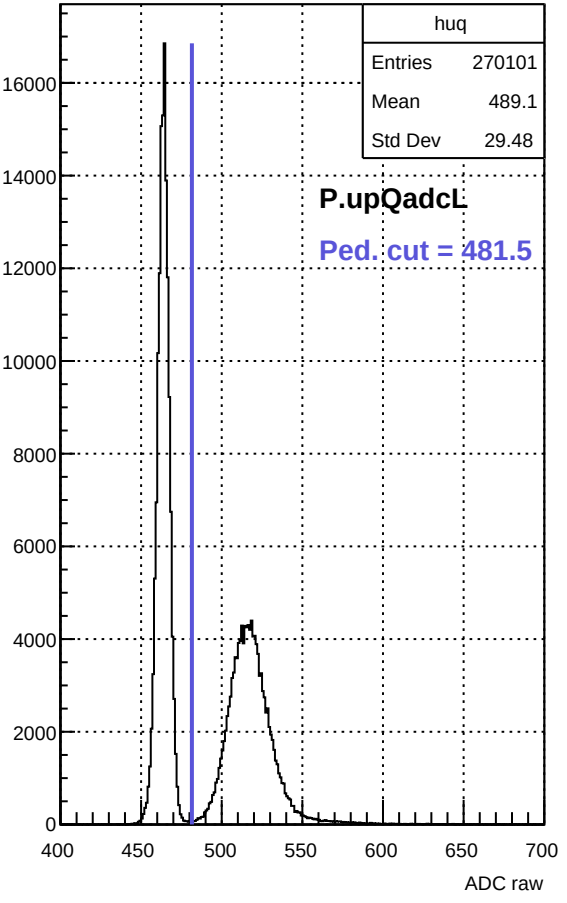

Asymmetry (ppm), pCut = 0.941 GeV
Asym
Entries 154187
Mean 0.5649
Std Dev 0.07859
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.941 GeV
SAsym
Entries 154187
Mean 0.5522
Std Dev 0.07473
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

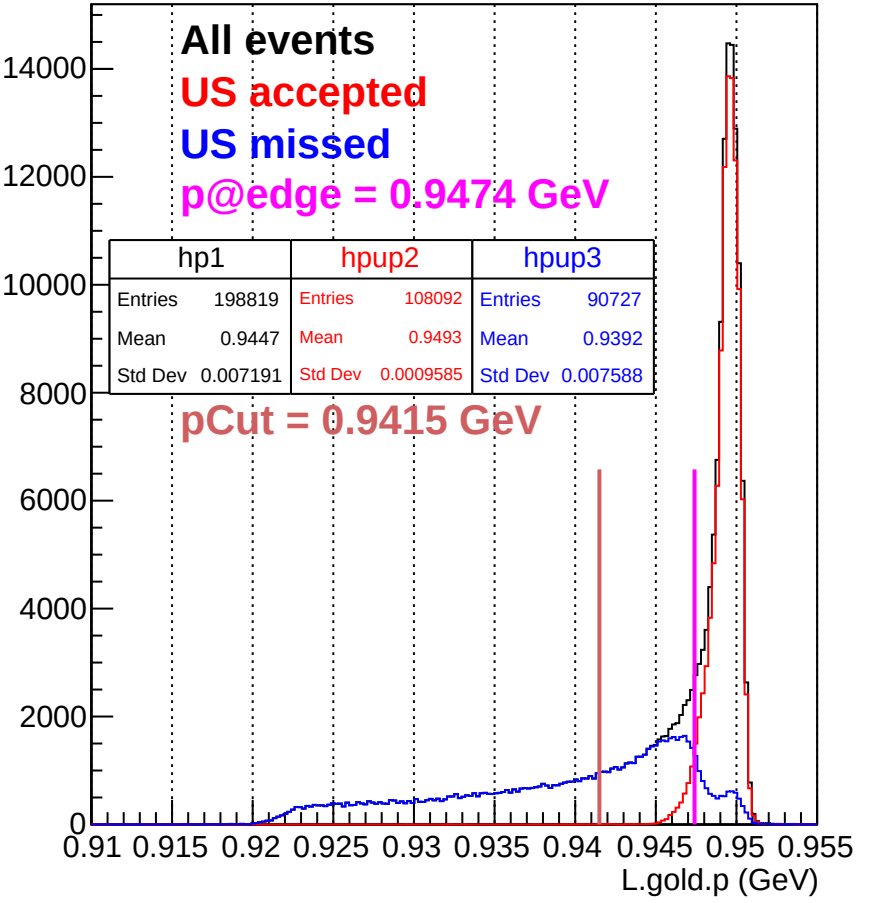

$Q^2$ (GeV/c)$^2$, pCut = 0.941 GeV
Q2
Entries 154187
Mean 0.006213
Std Dev 0.001246
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

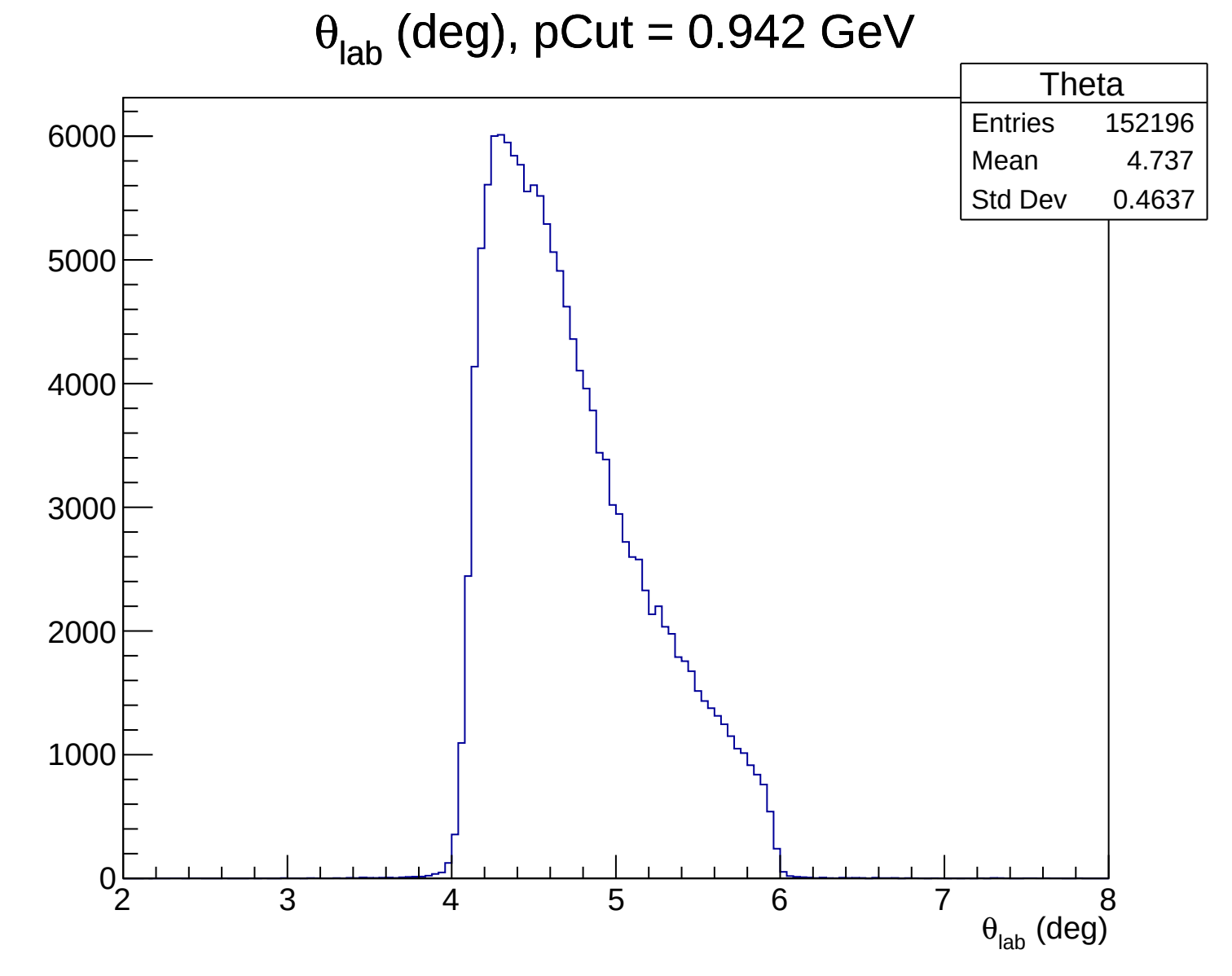

Sensitivity, pCut = 0.941 GeV
sens
Entries 154187
Mean 0.02189
Std Dev 0.004012
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

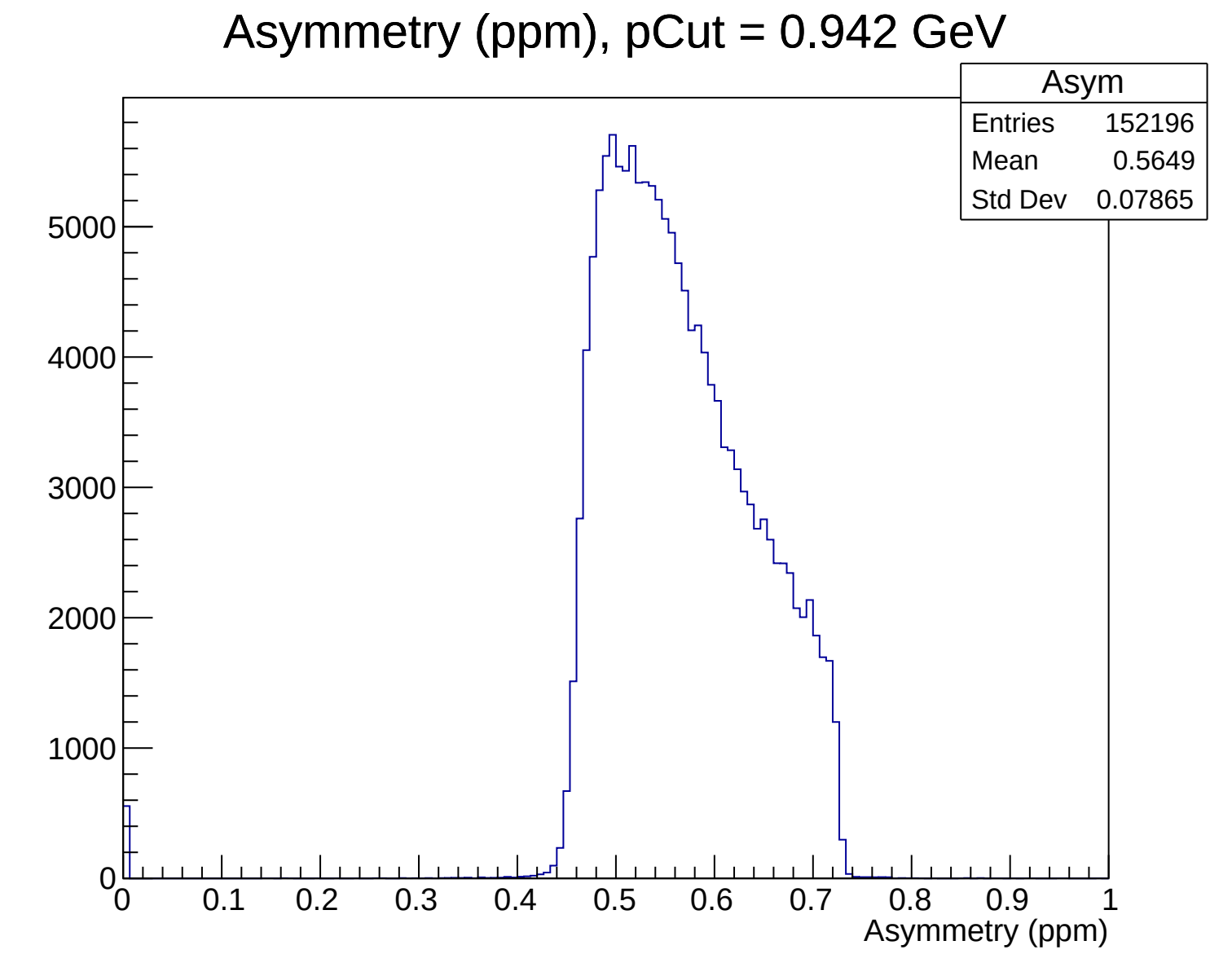
ADC raw (run2322, detZ = 1.3 m)

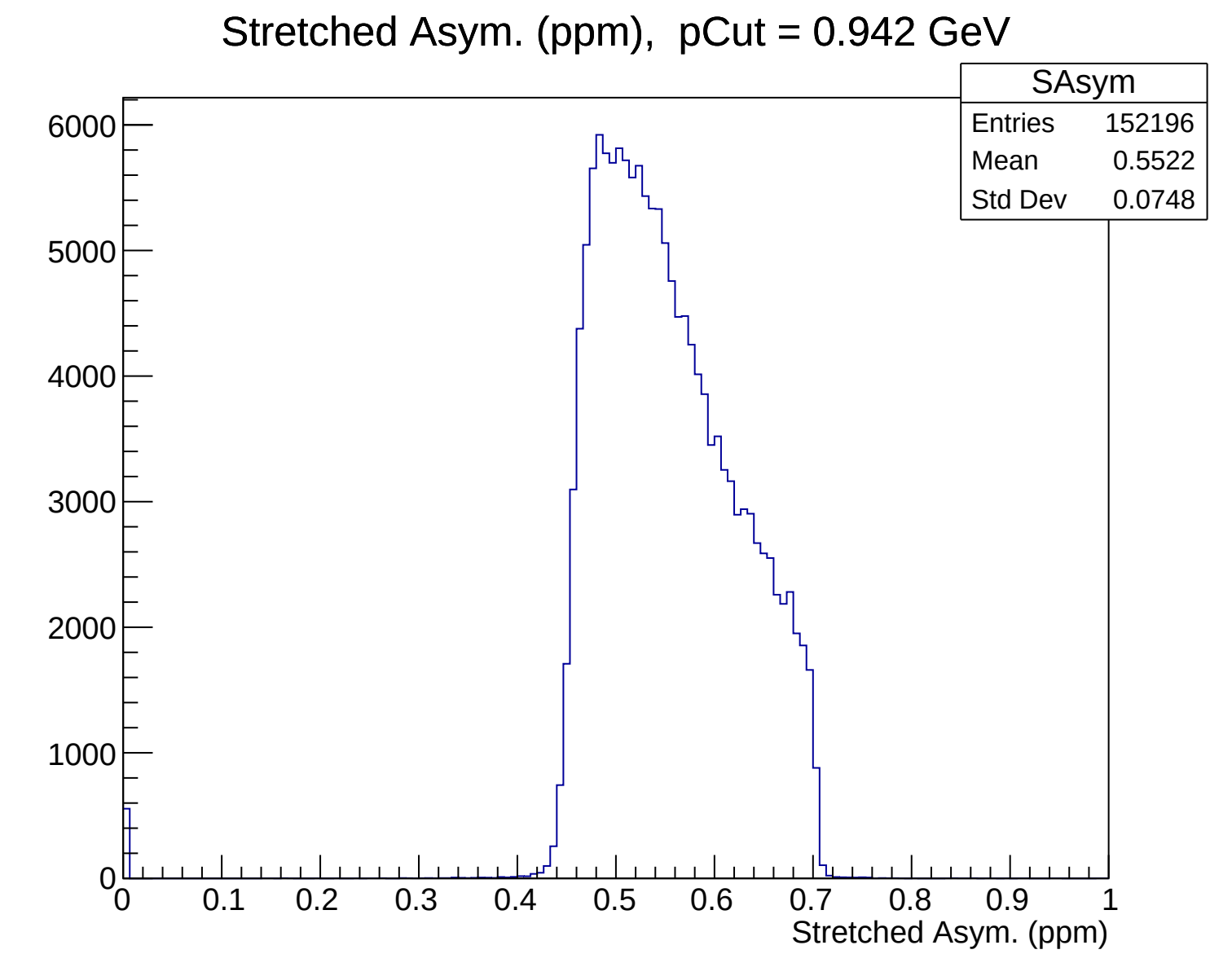


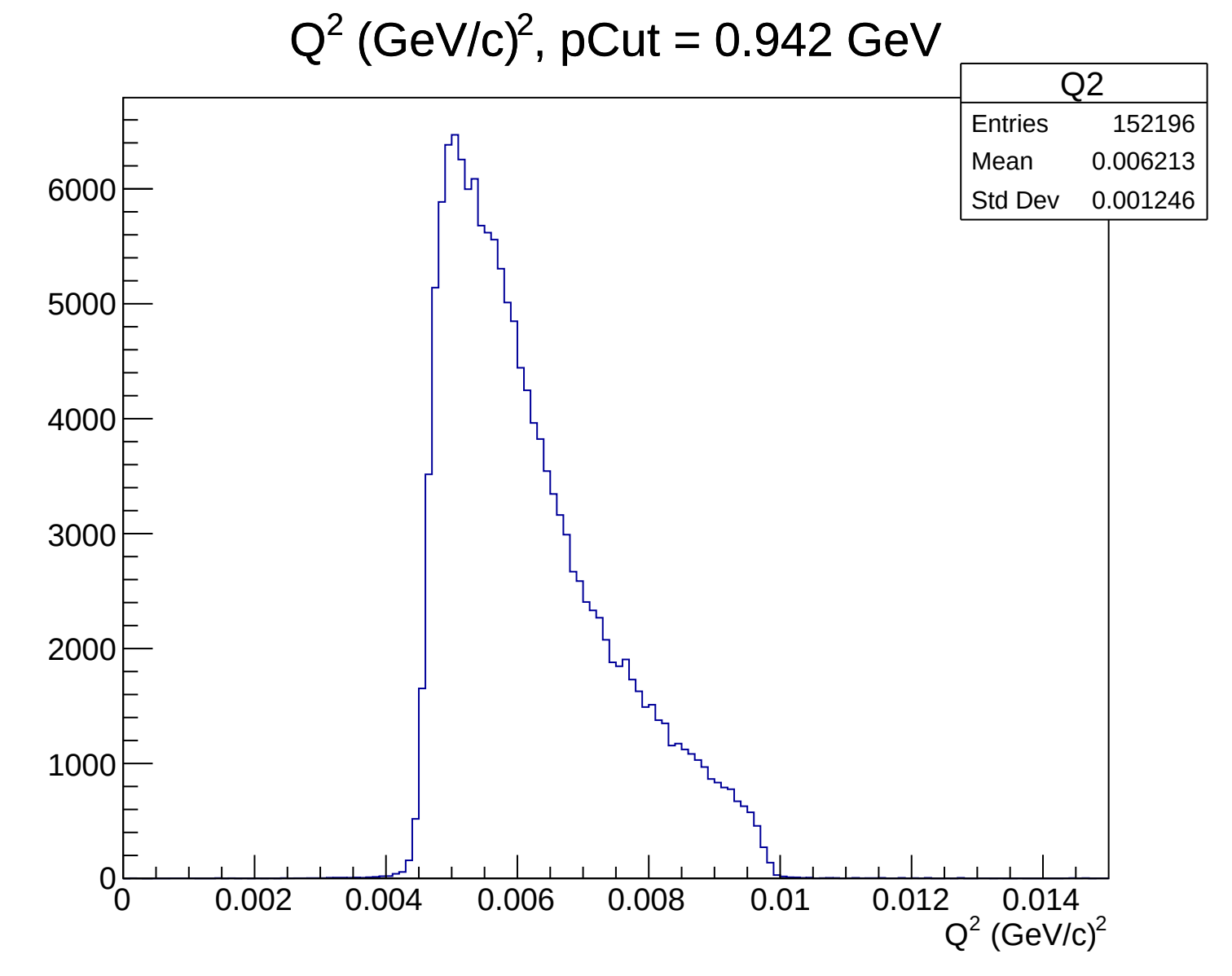

LHRS momentum run2322

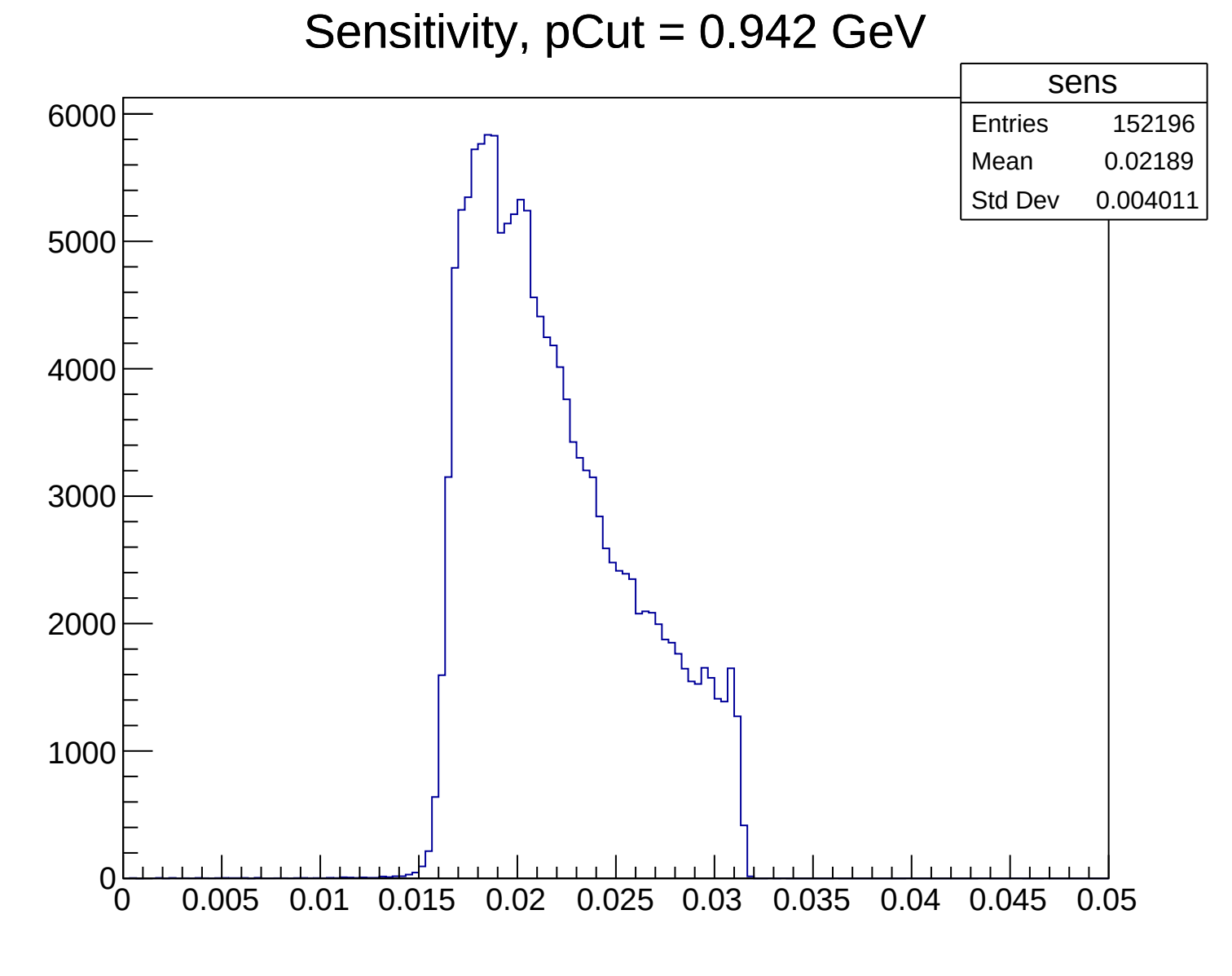



θlab (deg), pCut = 0.942 GeV
Theta
Entries 152196
Mean 4.737
Std Dev 0.4637
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

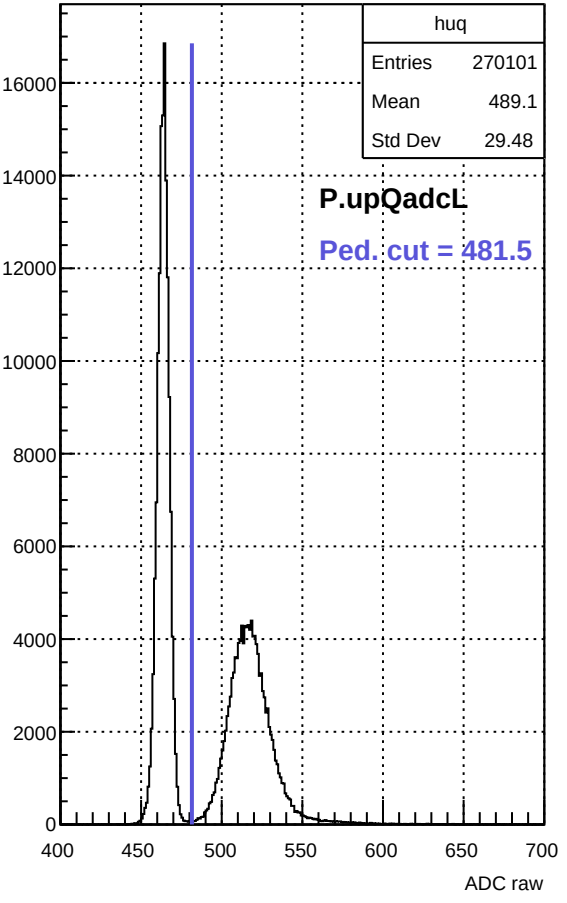

Asymmetry (ppm), pCut = 0.942 GeV
Asym
Entries 152196
Mean 0.5649
Std Dev 0.07865
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.942 GeV
SAsym
Entries 152196
Mean 0.5522
Std Dev 0.0748
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

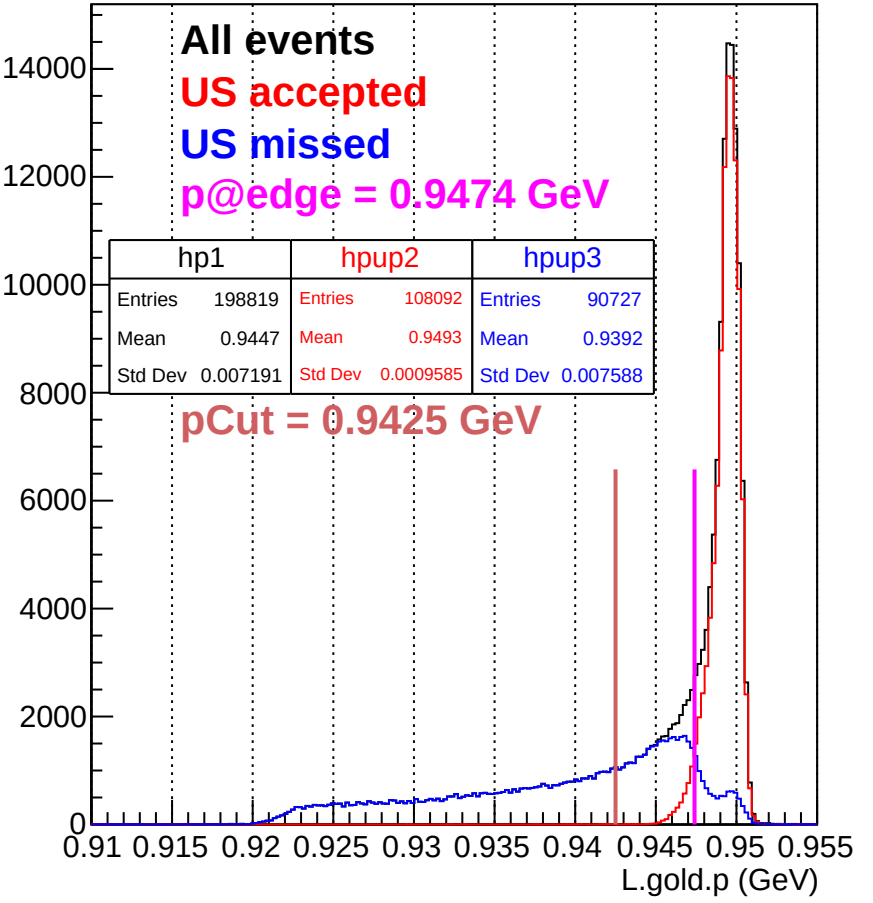

$Q^2$ (GeV/c)$^2$, pCut = 0.942 GeV
Q2
Entries 152196
Mean 0.006213
Std Dev 0.001246
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

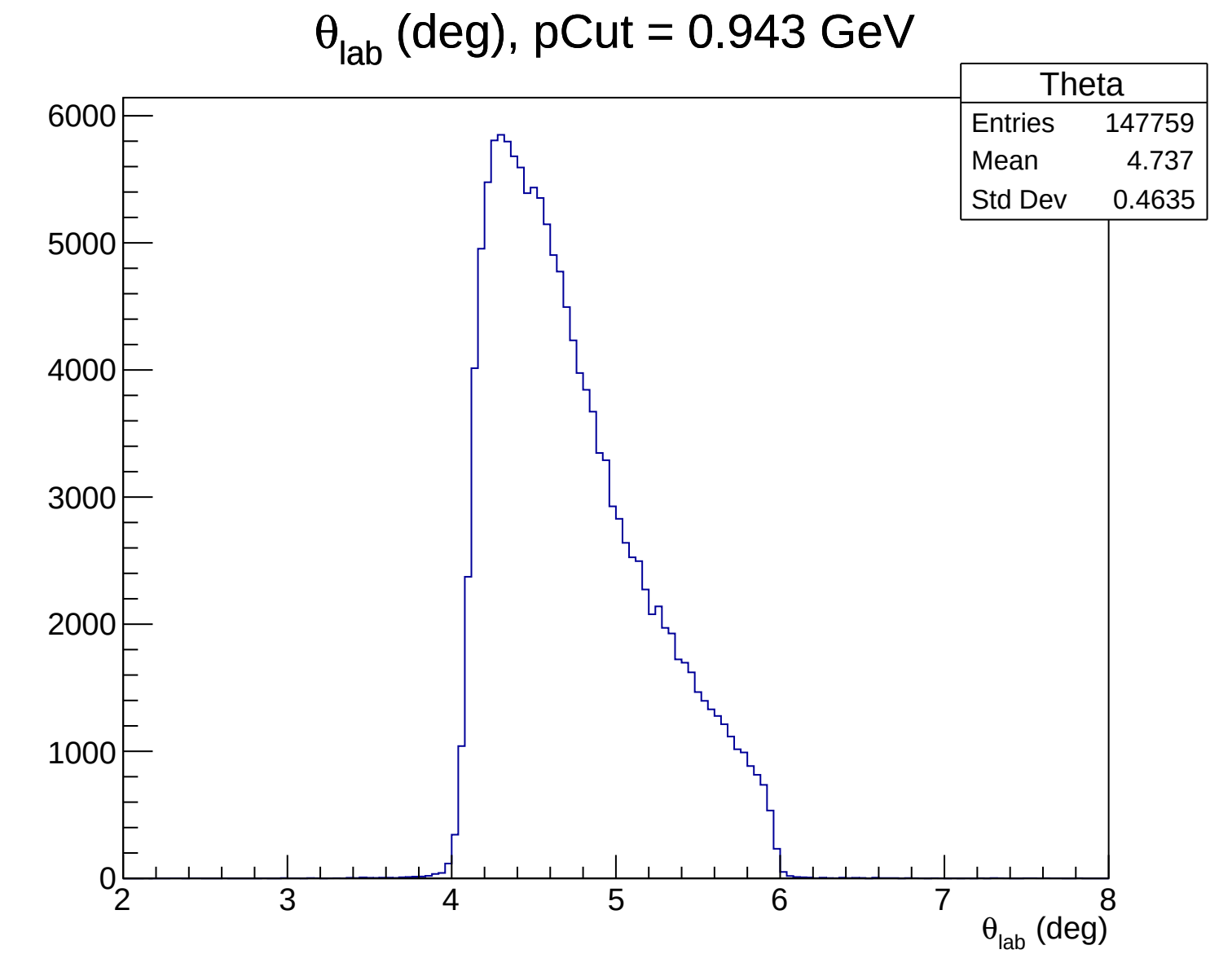

Sensitivity, pCut = 0.942 GeV
sens
Entries 152196
Mean 0.02189
Std Dev 0.004011
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

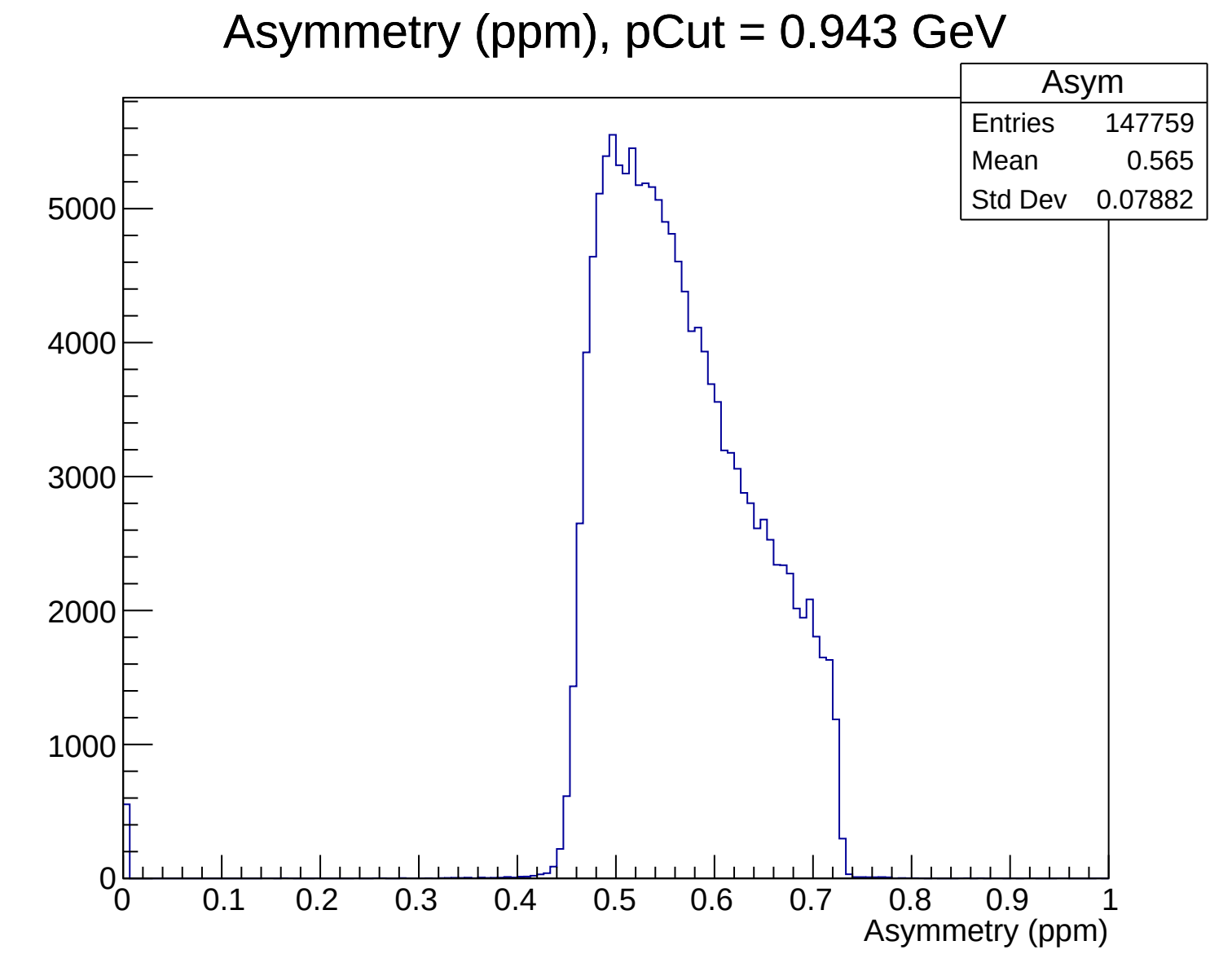
ADC raw (run2322, detZ = 1.3 m)

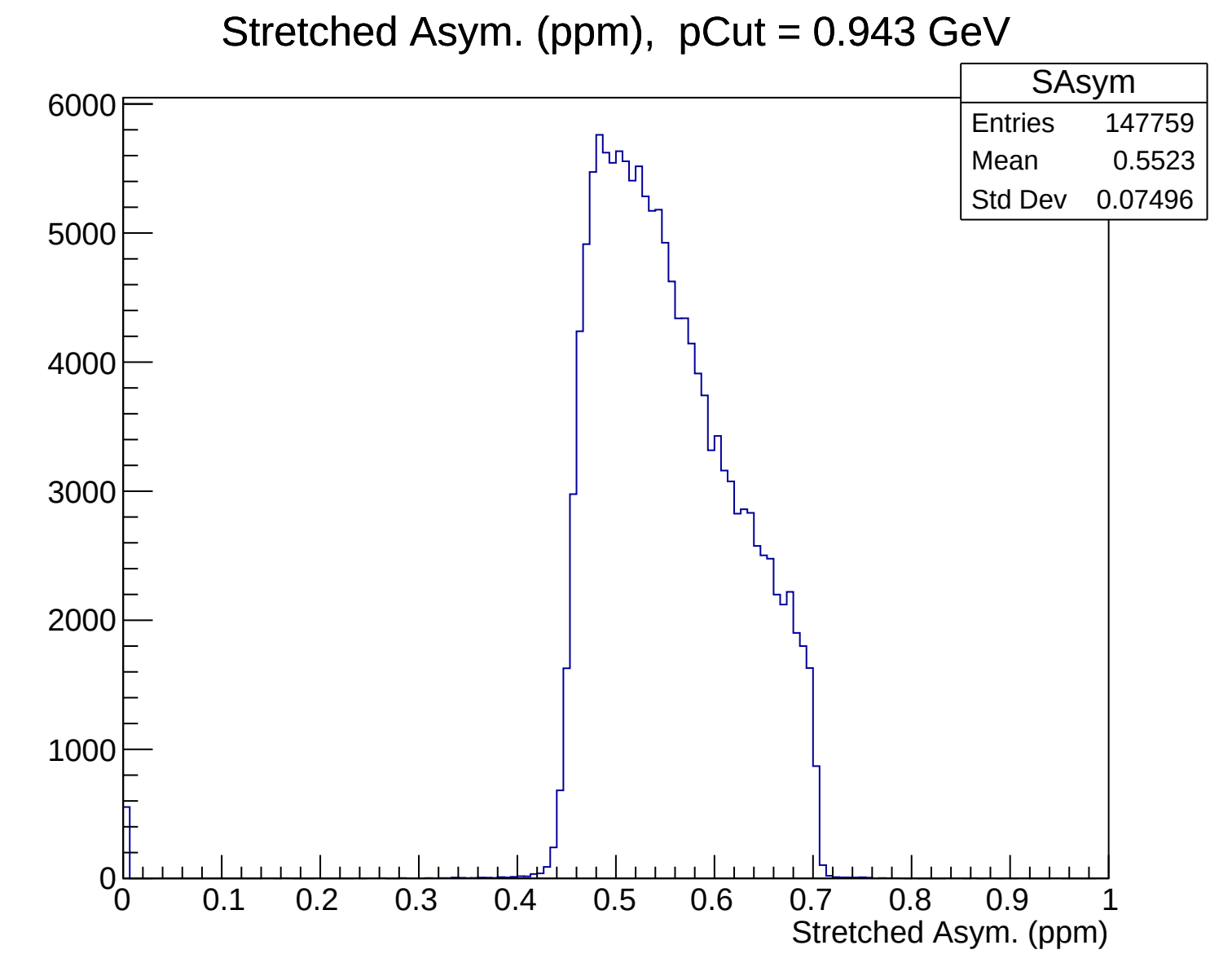


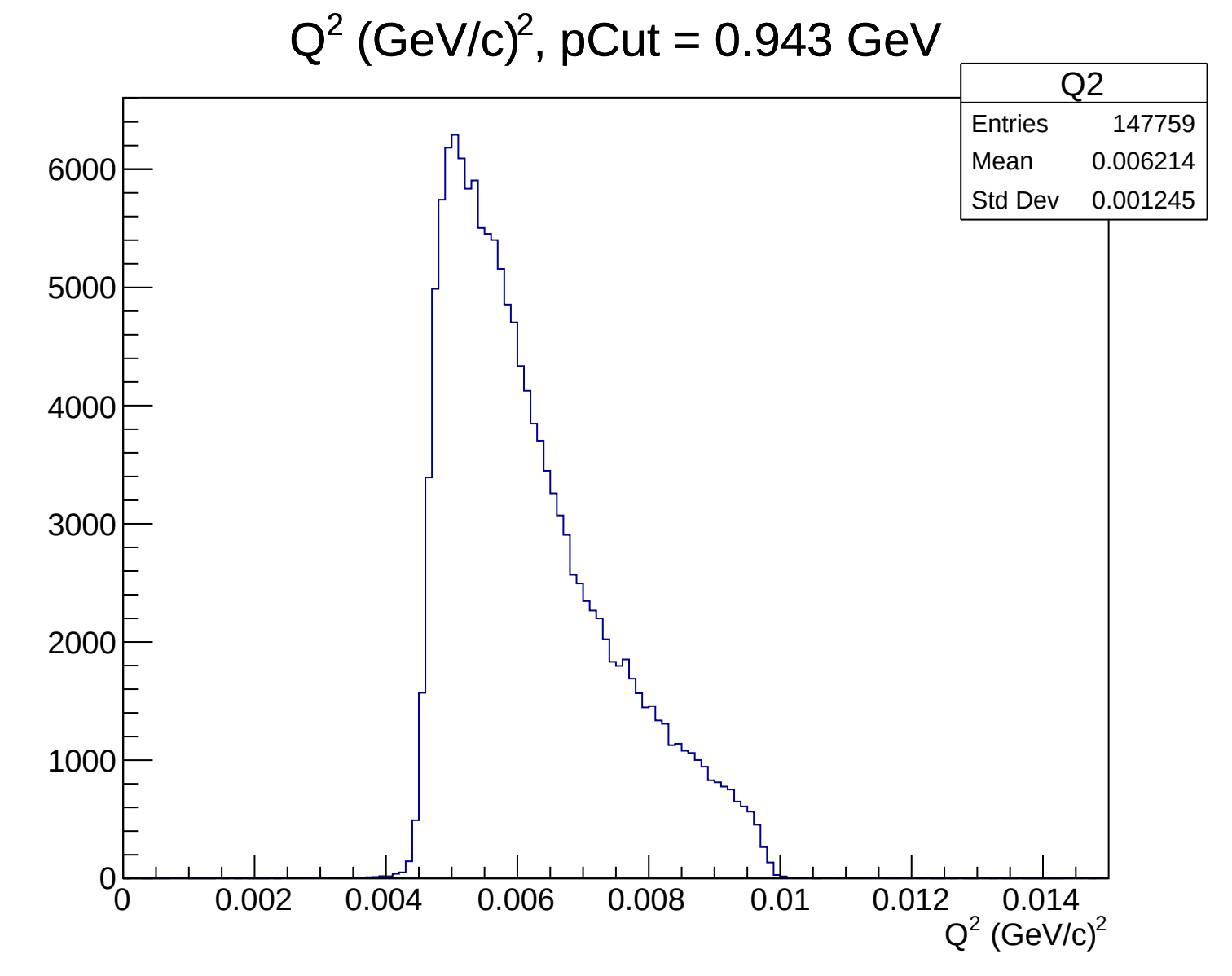

LHRS momentum run2322

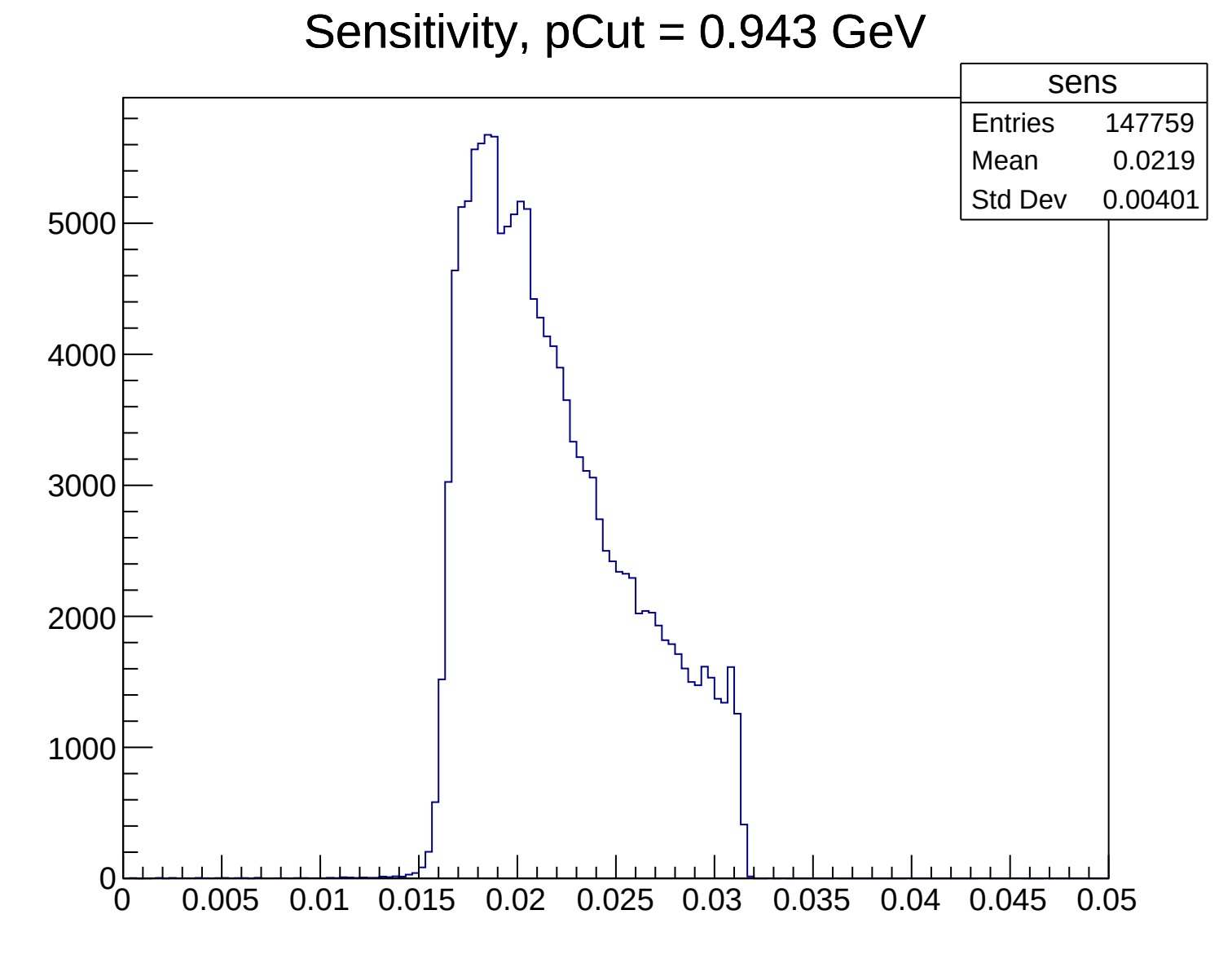



θlab (deg), pCut = 0.943 GeV
Theta
Entries 147759
Mean 4.737
Std Dev 0.4635
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

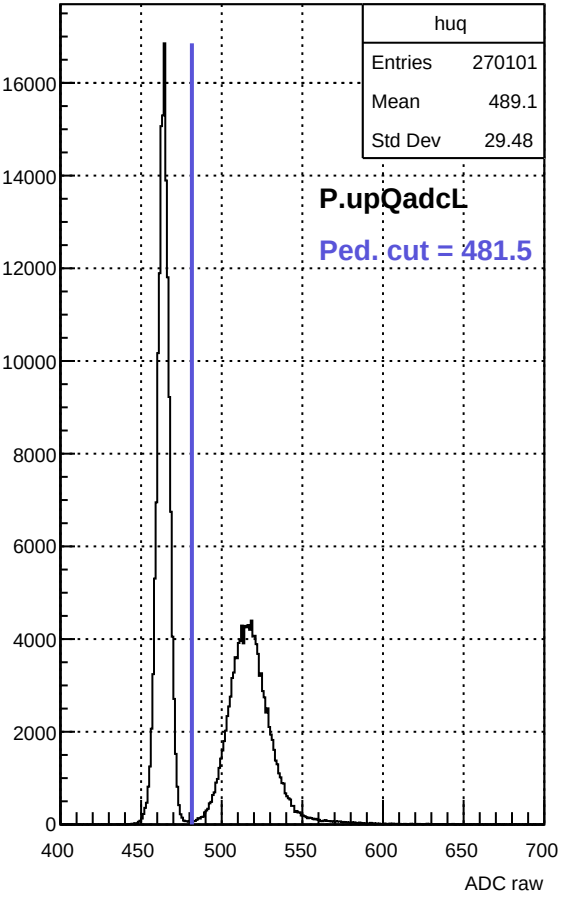

Asymmetry (ppm), pCut = 0.943 GeV
Asym
Entries 147759
Mean 0.565
Std Dev 0.07882
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.943 GeV
SAsym
Entries 147759
Mean 0.5523
Std Dev 0.07496
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

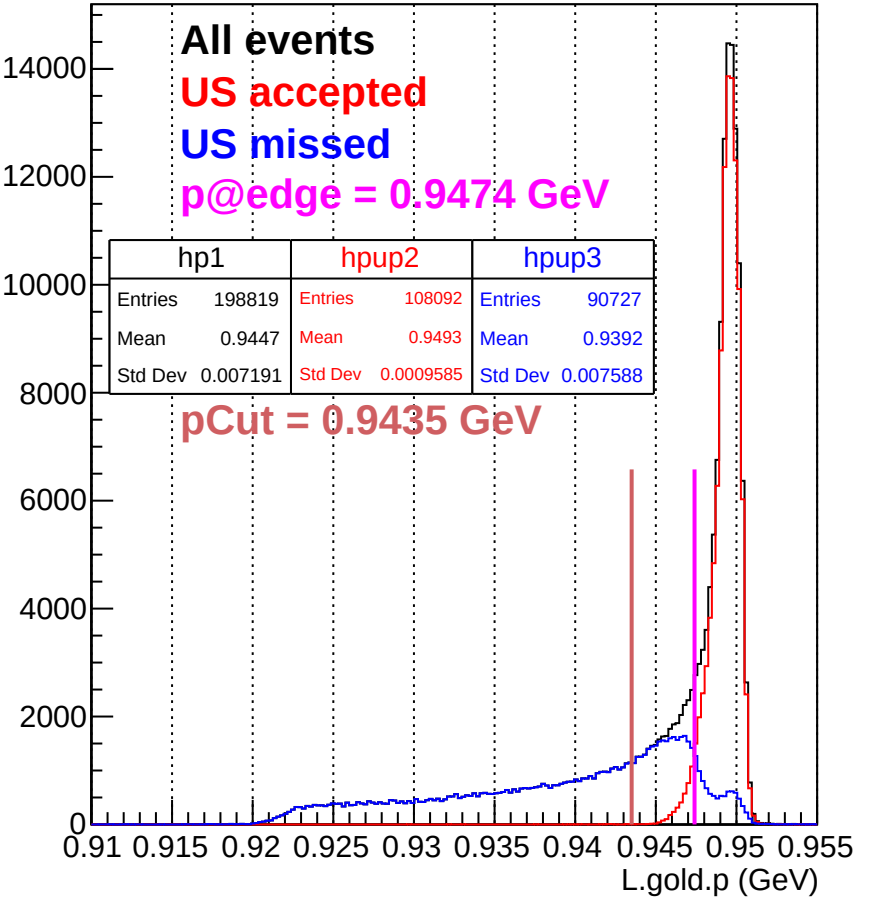

$Q^2$ (GeV/c)$^2$, pCut = 0.943 GeV
Q2
Entries 147759
Mean 0.006214
Std Dev 0.001245
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

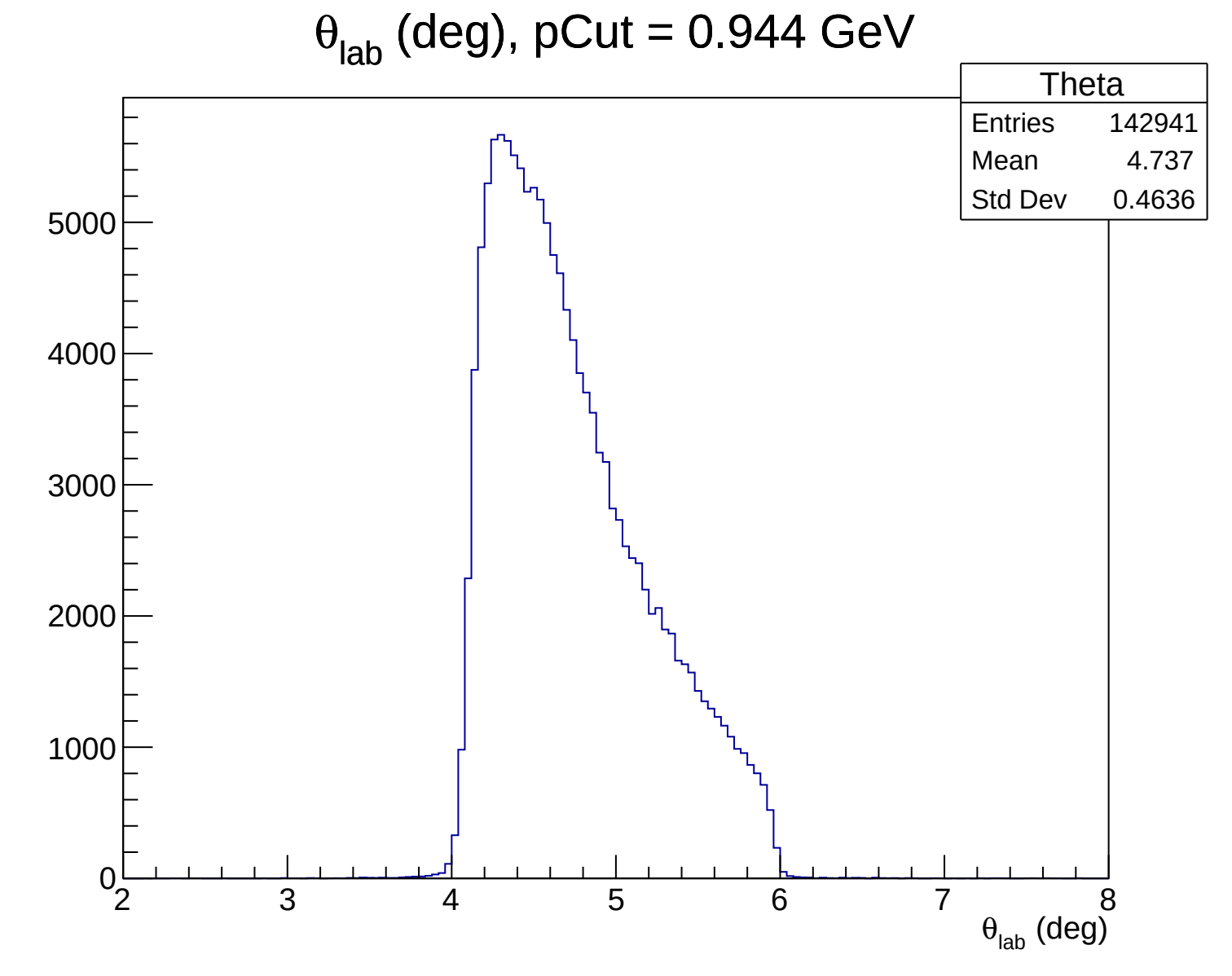

Sensitivity, pCut = 0.943 GeV
sens
Entries 147759
Mean 0.0219
Std Dev 0.00401
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

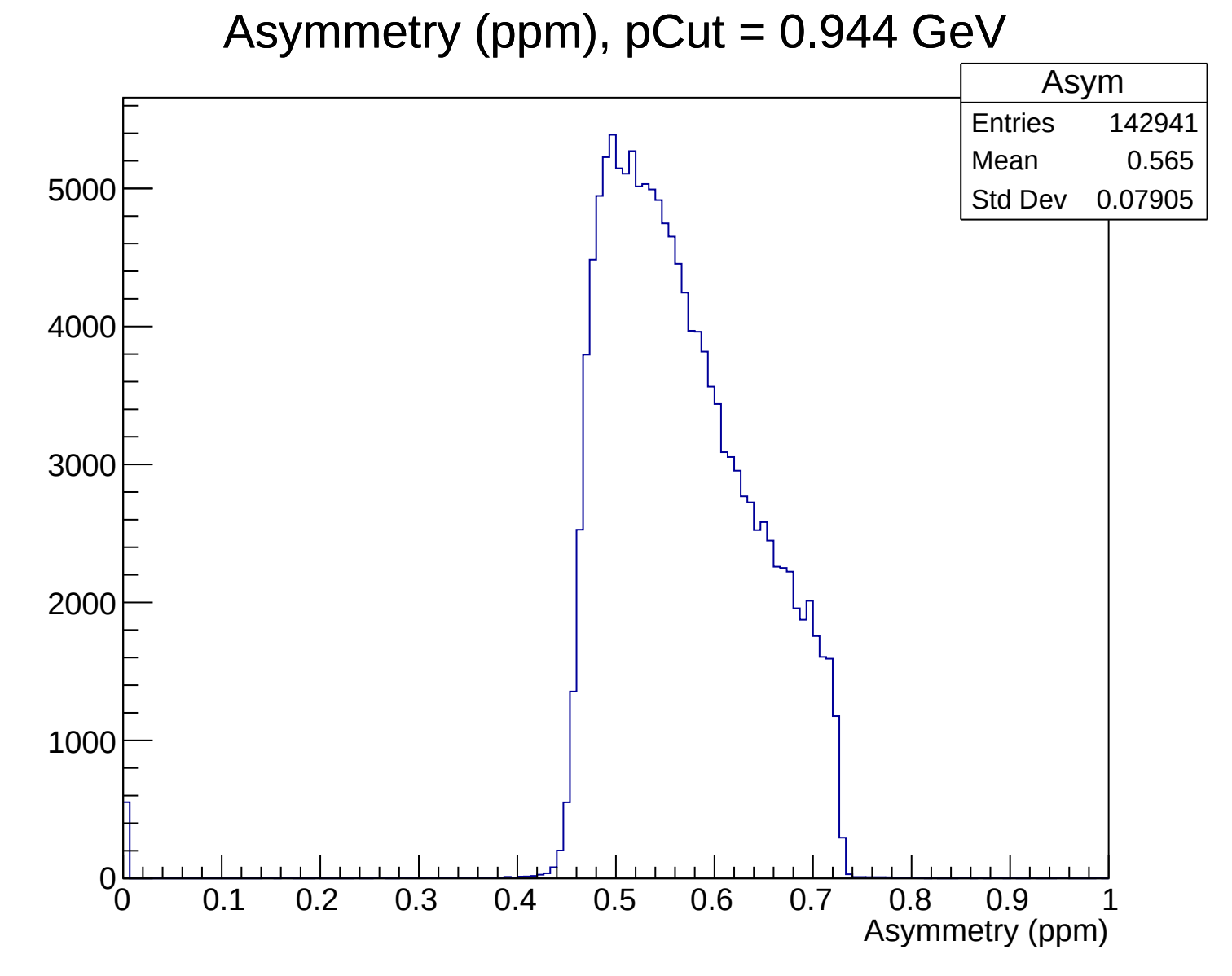
ADC raw (run2322, detZ = 1.3 m)

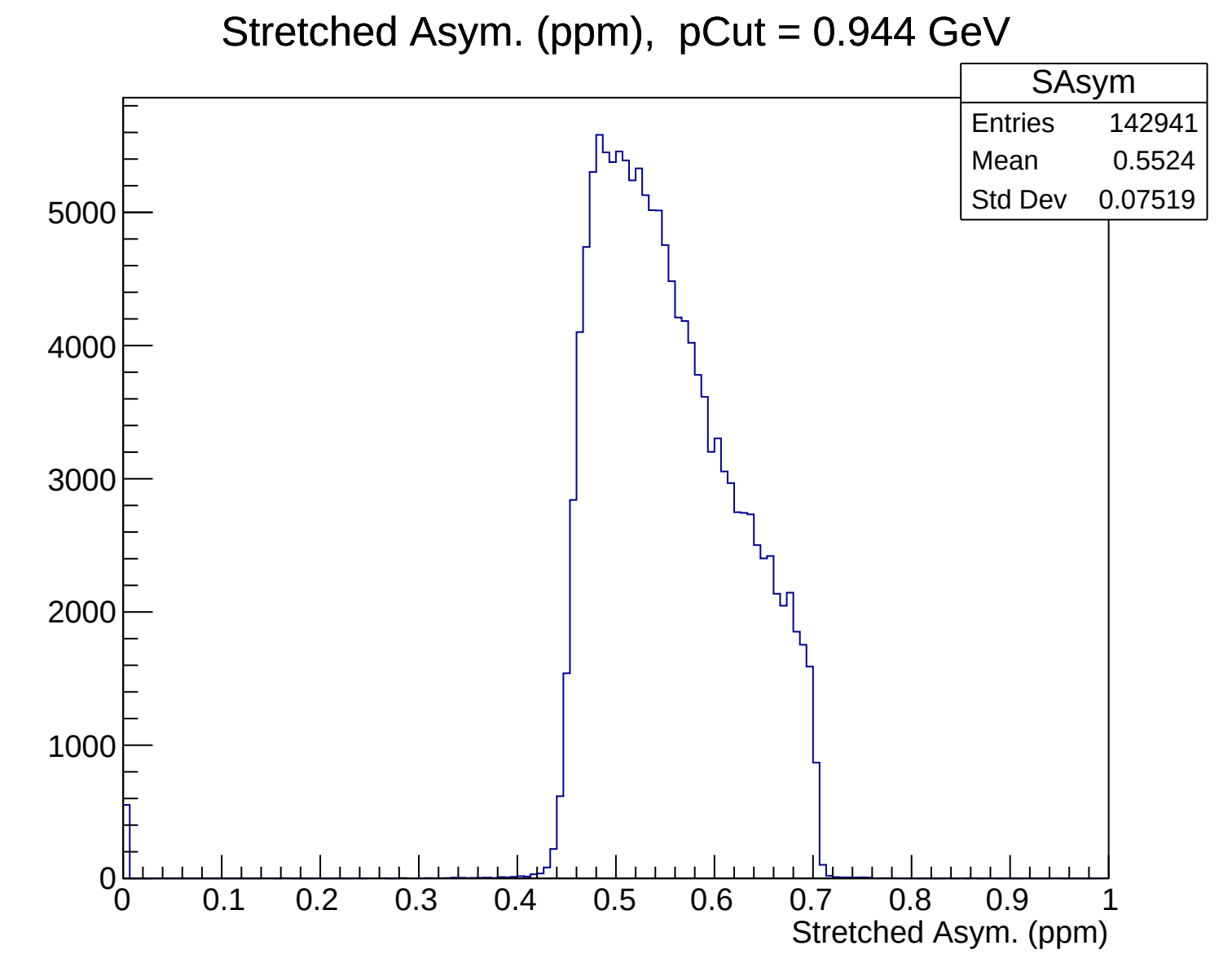


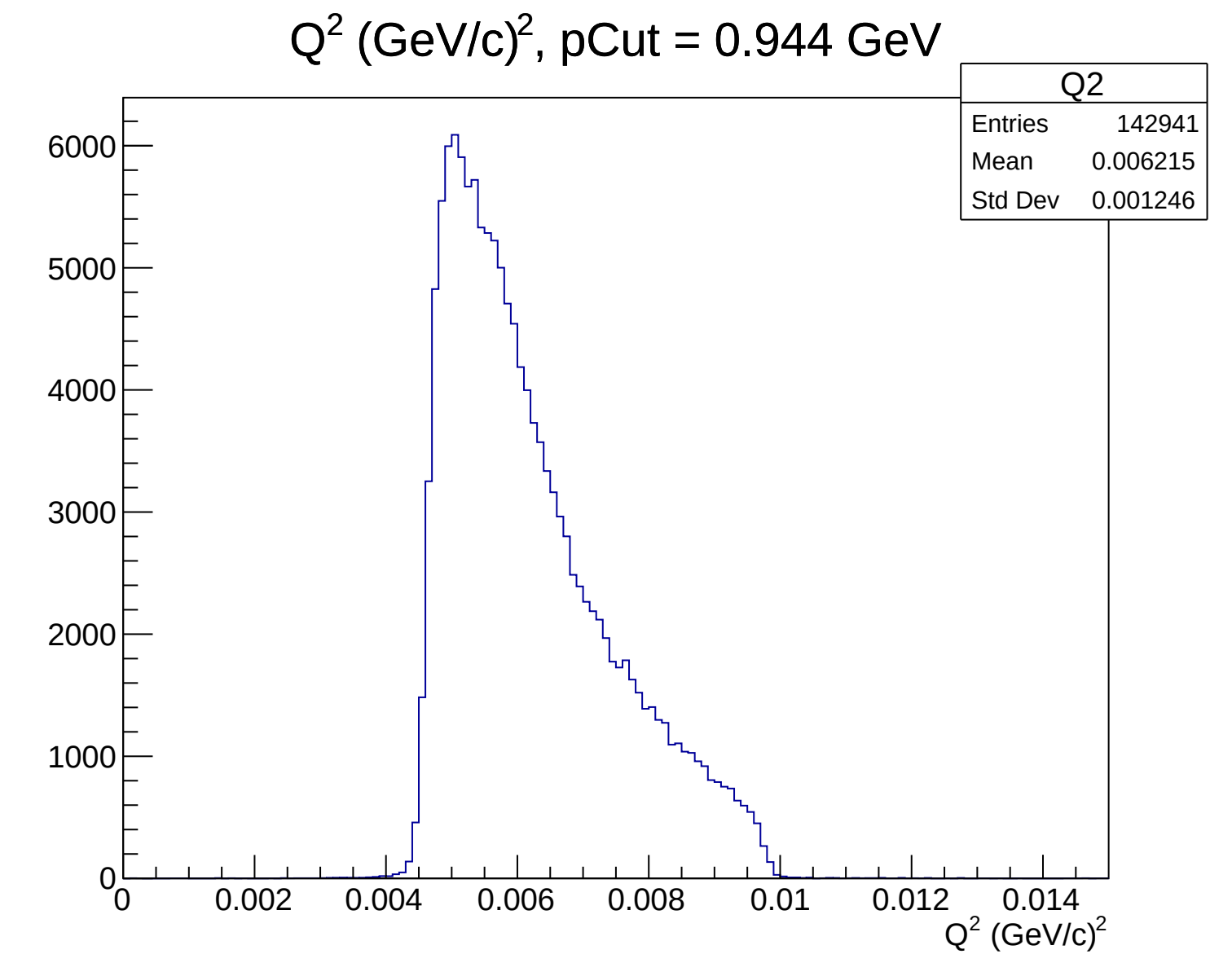

LHRS momentum run2322

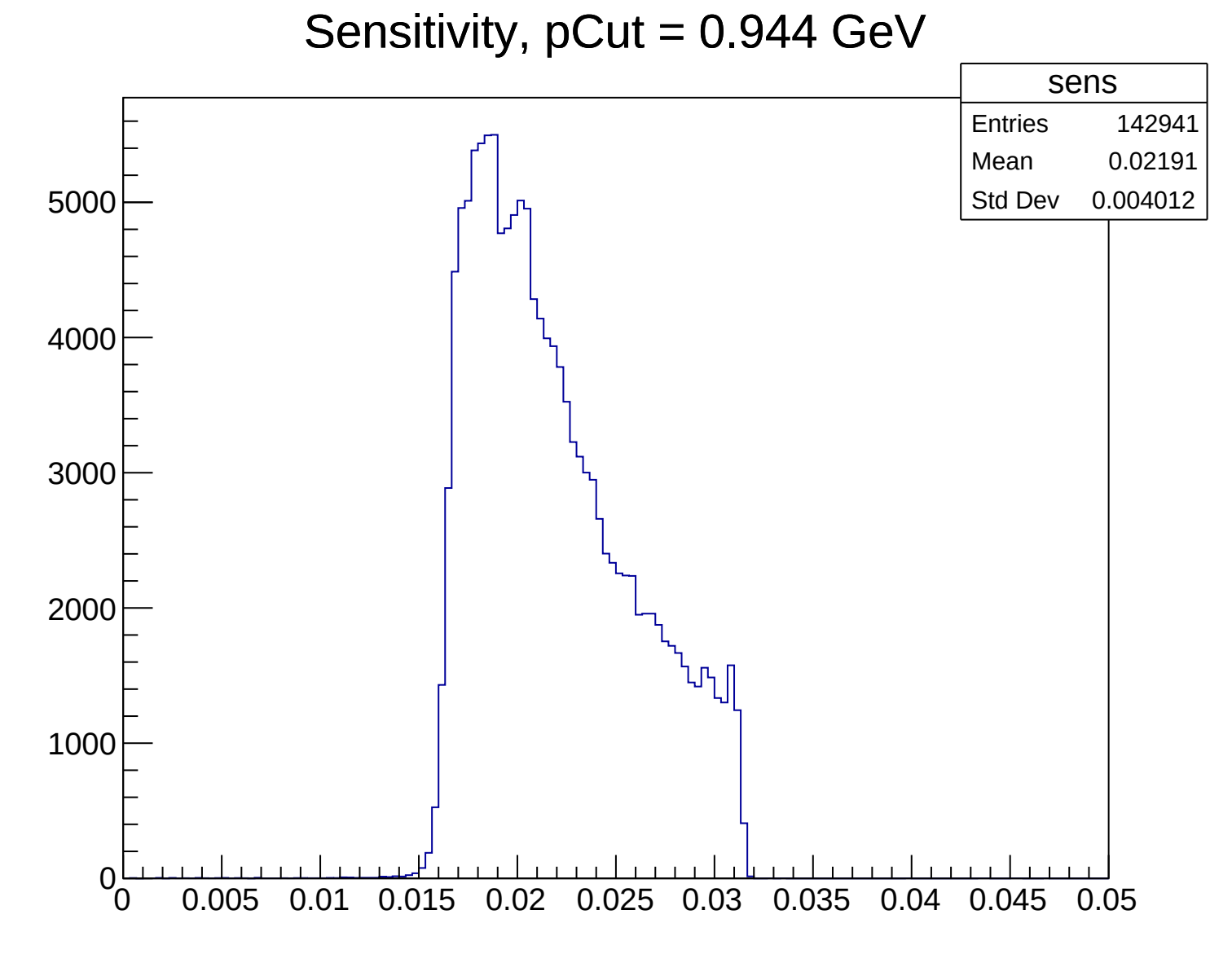



θlab (deg), pCut = 0.944 GeV
Theta
Entries 142941
Mean 4.737
Std Dev 0.4636
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

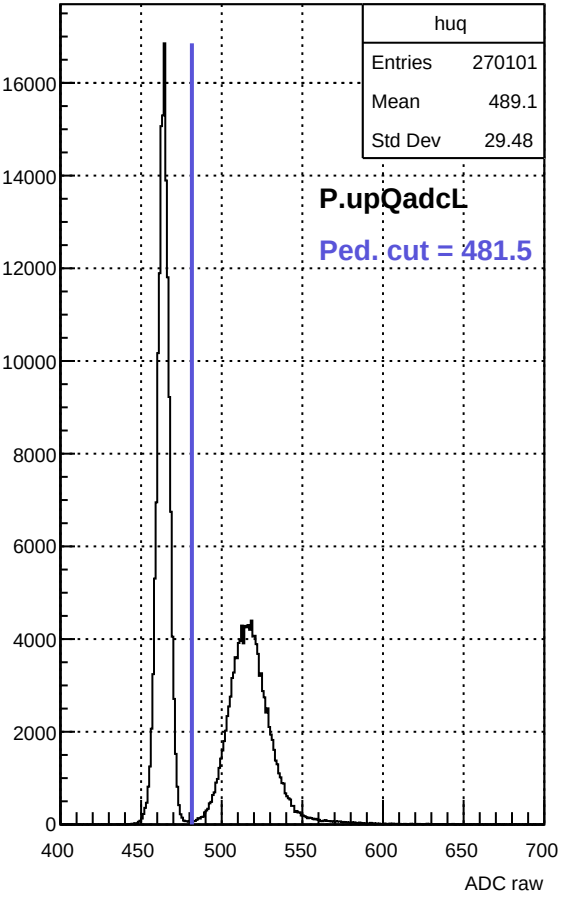

Asymmetry (ppm), pCut = 0.944 GeV
Asym
Entries 142941
Mean 0.565
Std Dev 0.07905
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.944 GeV
SAsym
Entries 142941
Mean 0.5524
Std Dev 0.07519
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

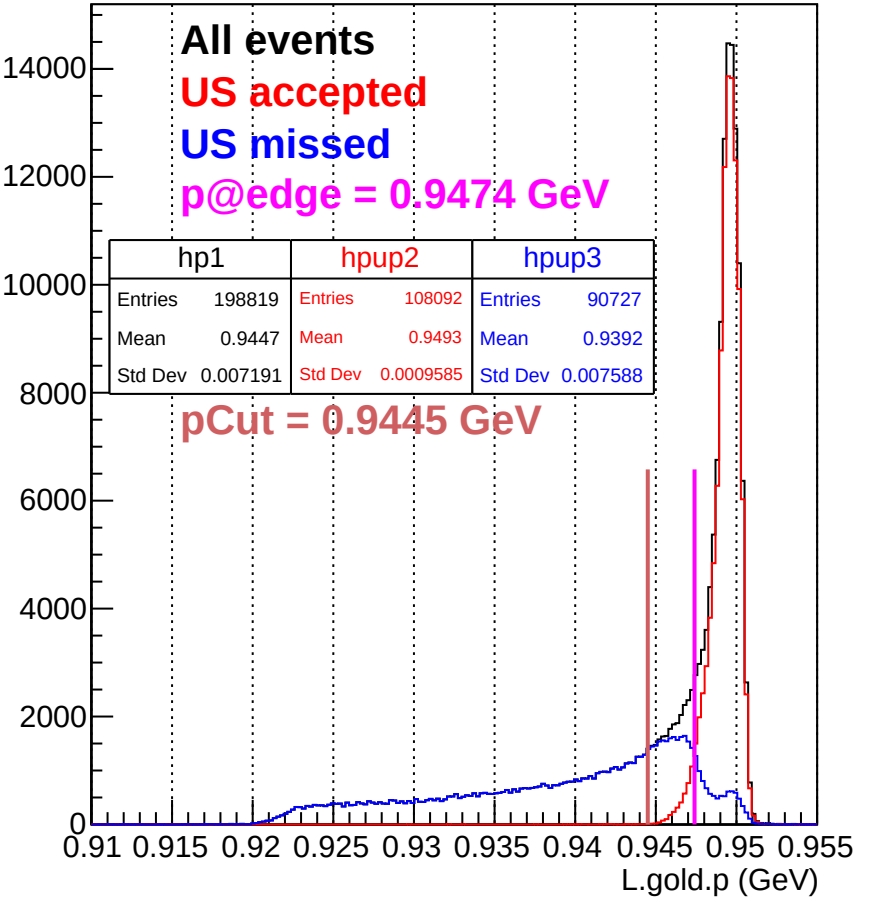

$Q^2$ (GeV/c)$^2$, pCut = 0.944 GeV
Q2
Entries 142941
Mean 0.006215
Std Dev 0.001246
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

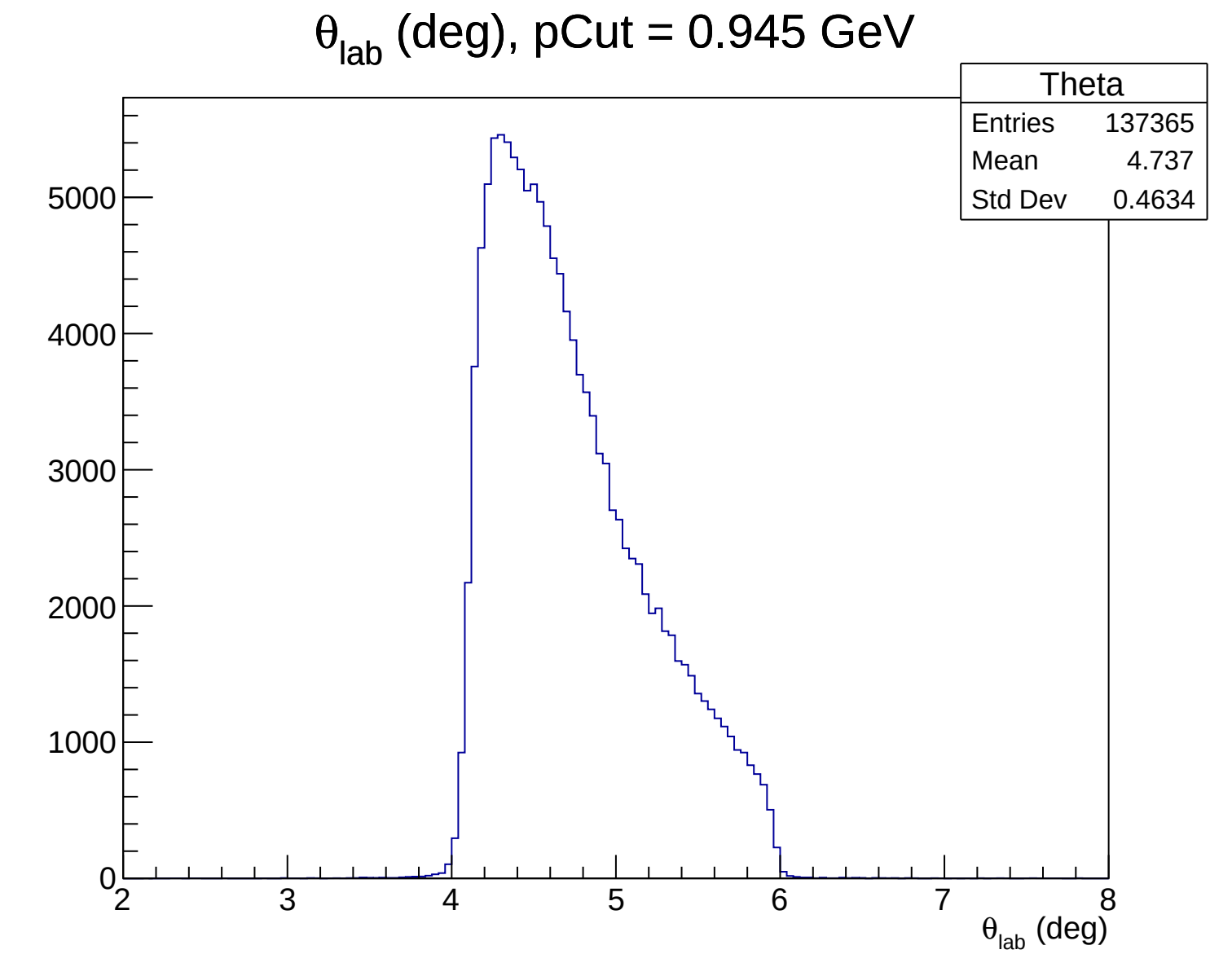

Sensitivity, pCut = 0.944 GeV
sens
Entries 142941
Mean 0.02191
Std Dev 0.004012
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

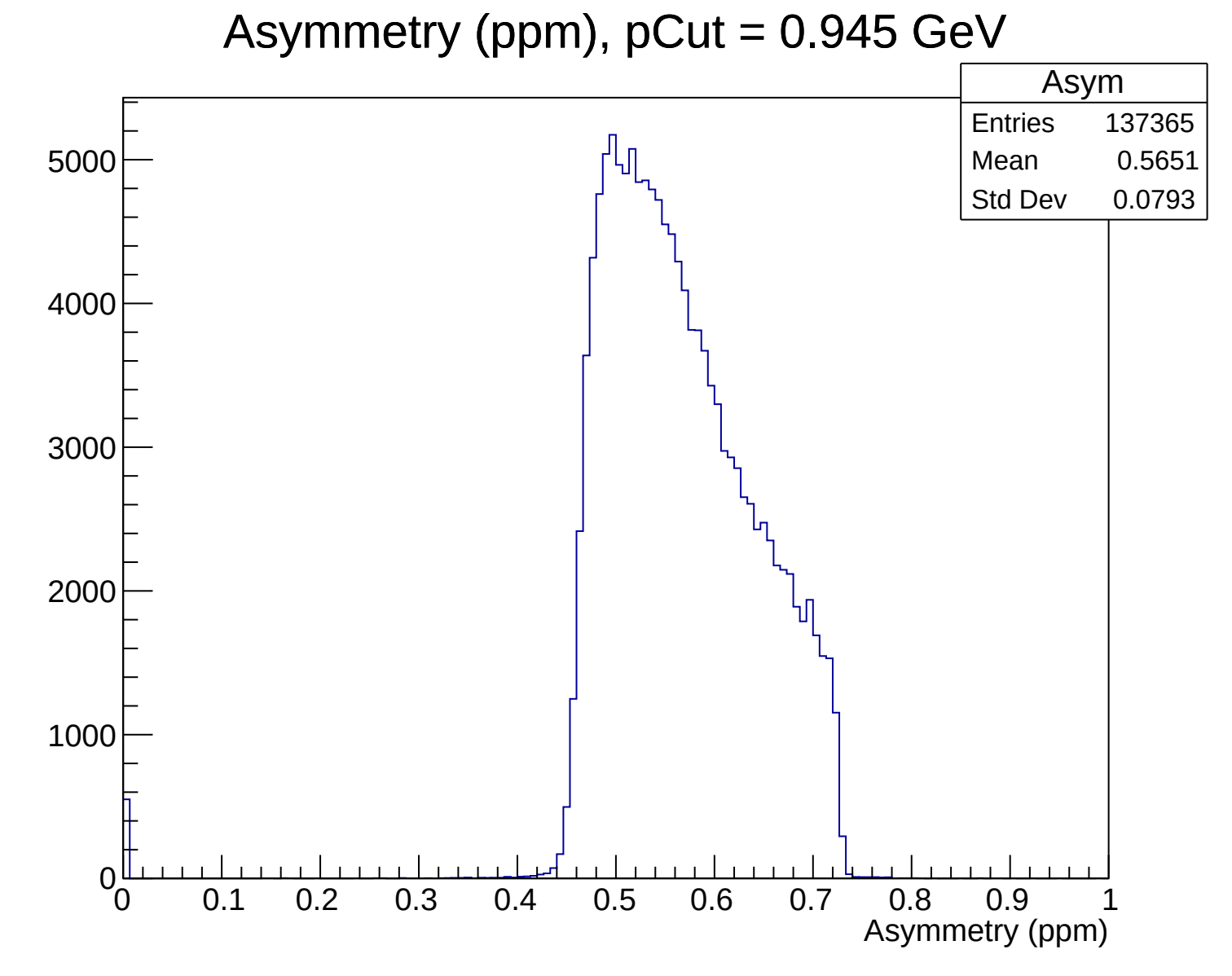
ADC raw (run2322, detZ = 1.3 m)

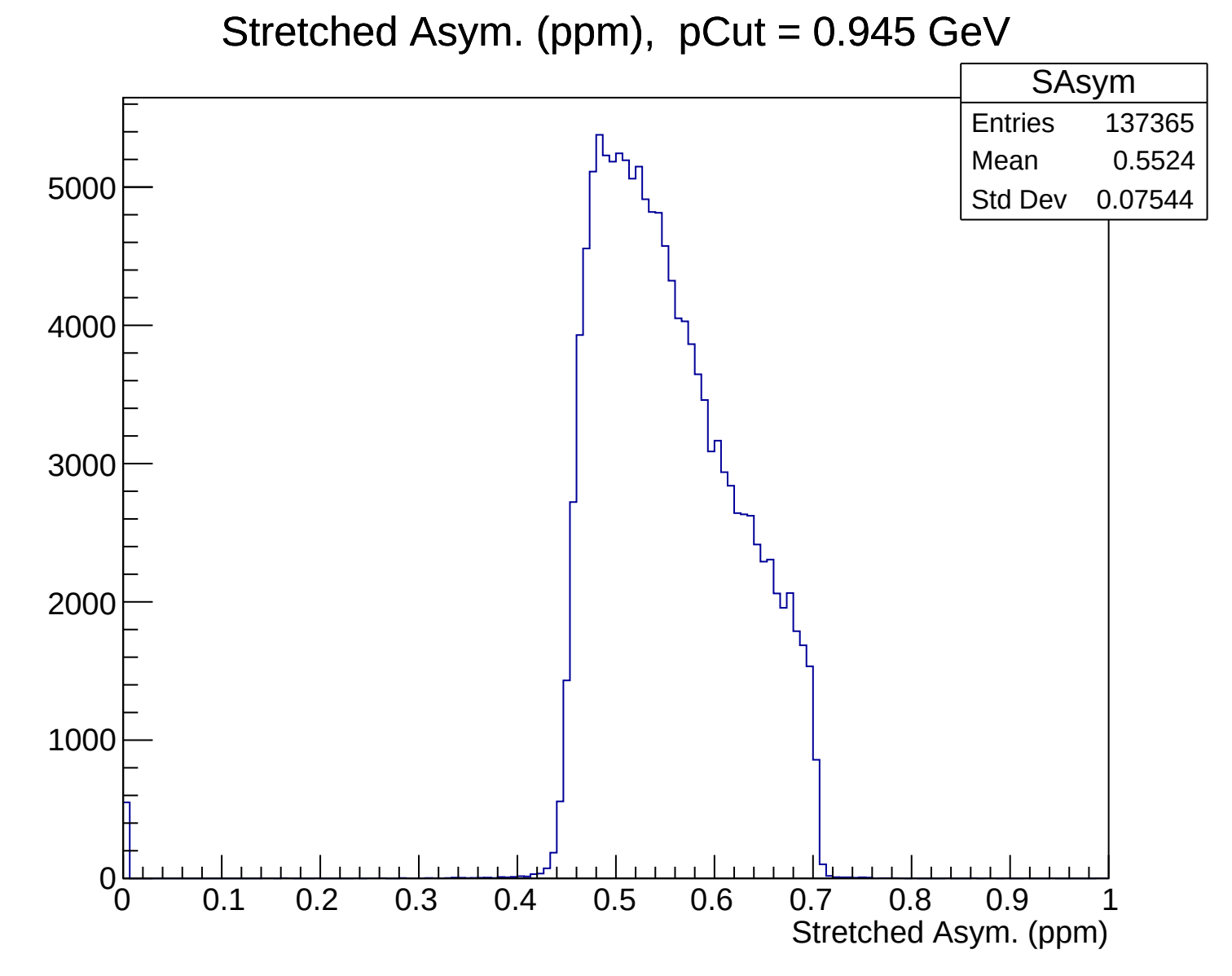


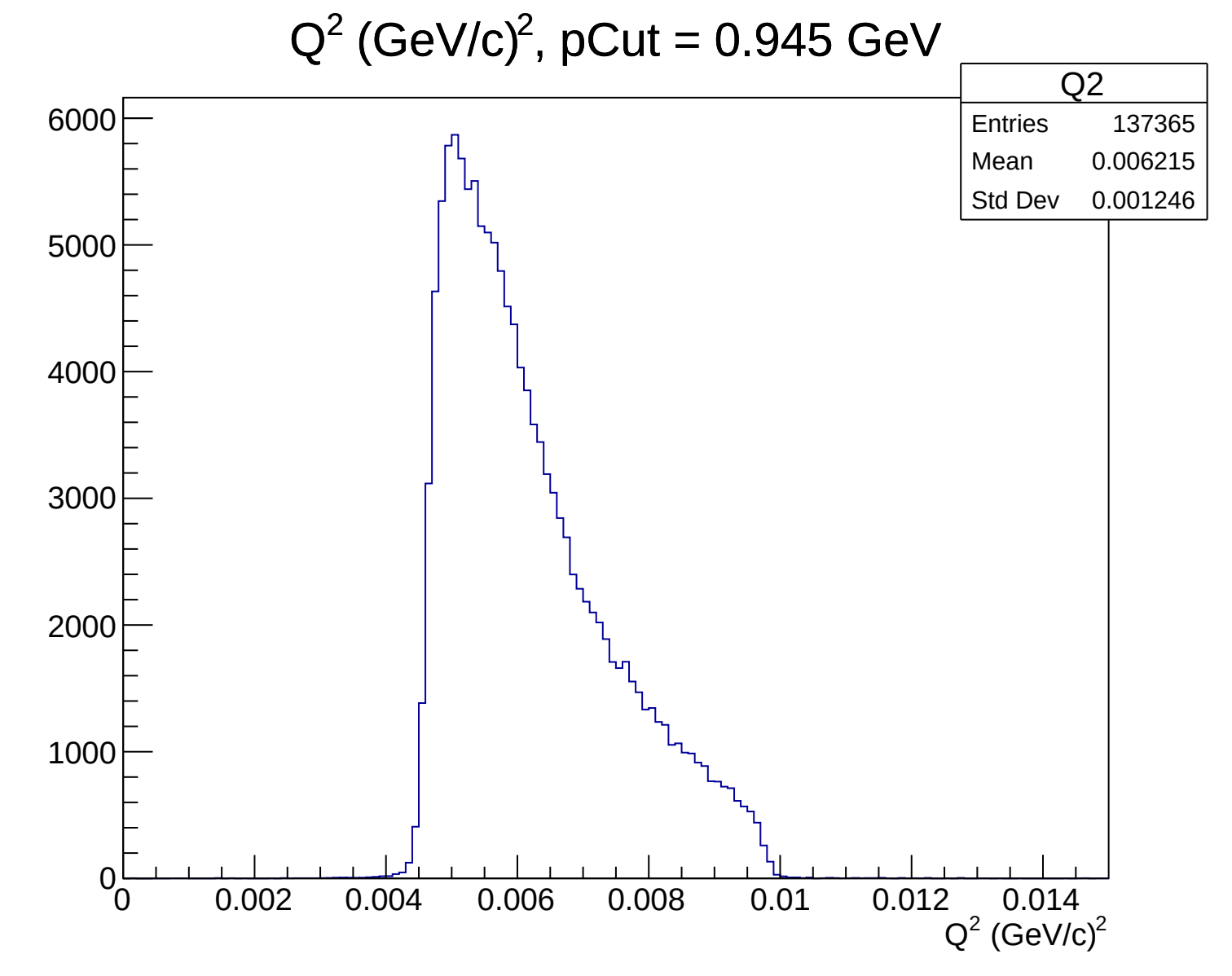

LHRS momentum run2322

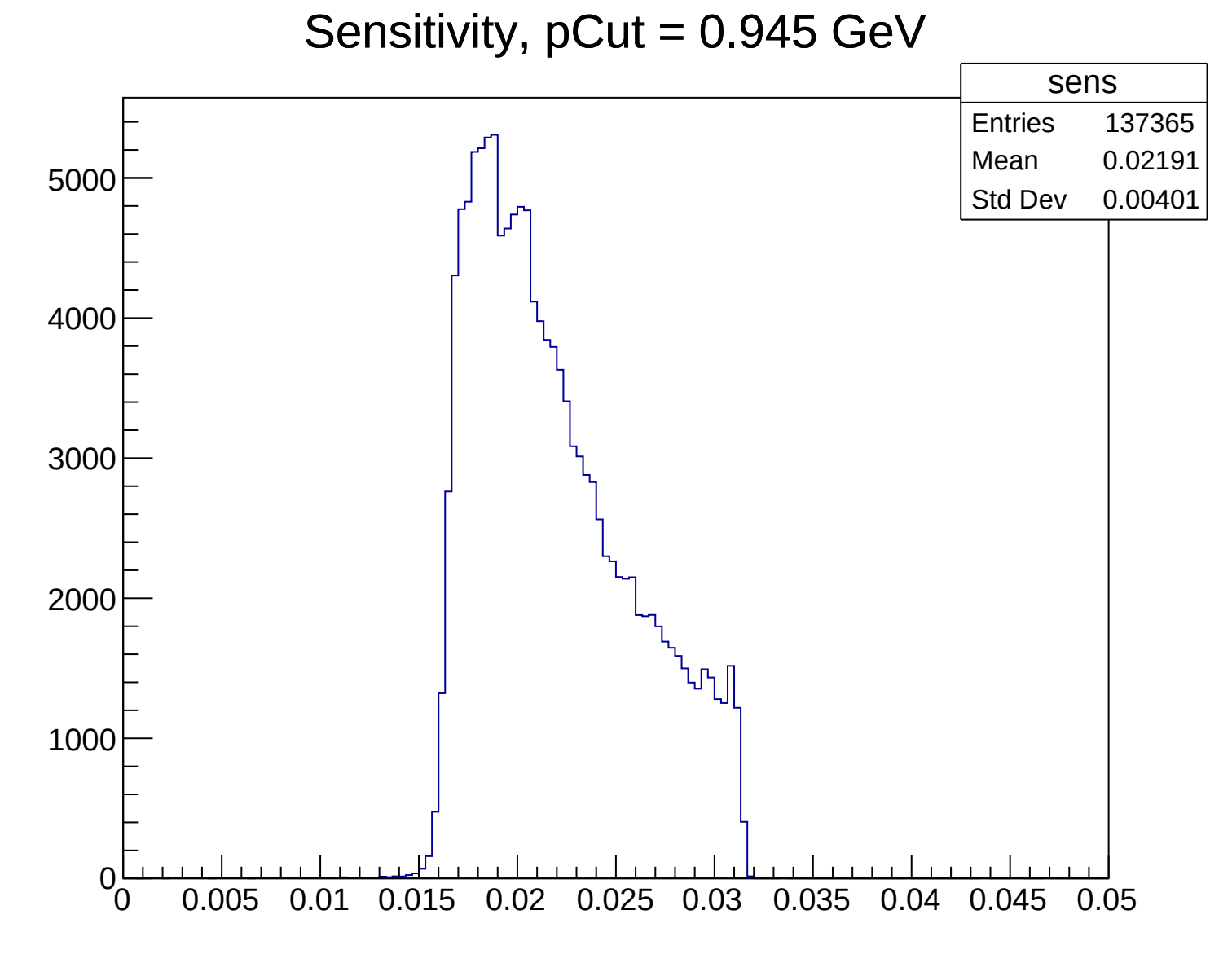



θlab (deg), pCut = 0.945 GeV
Theta
Entries 137365
Mean 4.737
Std Dev 0.4634
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

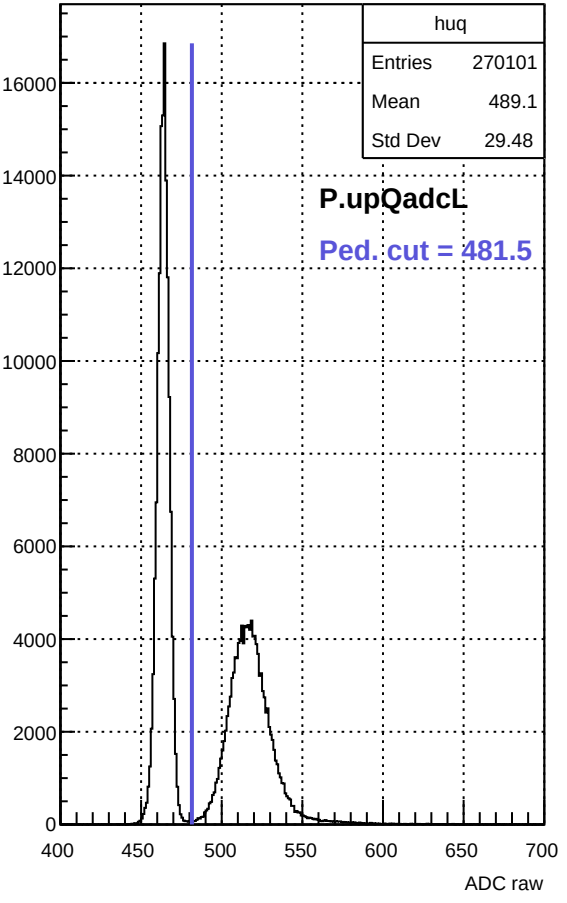

Asymmetry (ppm), pCut = 0.945 GeV
Asym
Entries 137365
Mean 0.5651
Std Dev 0.0793
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.945 GeV
SAsym
Entries 137365
Mean 0.5524
Std Dev 0.07544
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

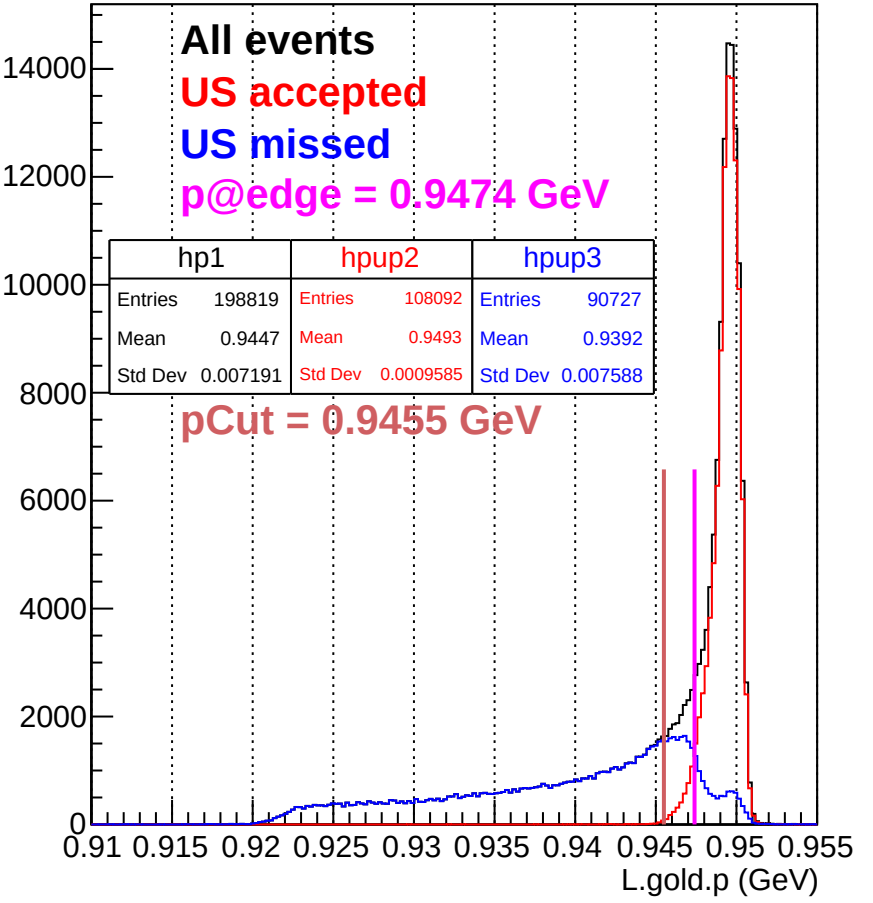

$Q^2$ (GeV/c)$^2$, pCut = 0.945 GeV
Q2
Entries 137365
Mean 0.006215
Std Dev 0.001246
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

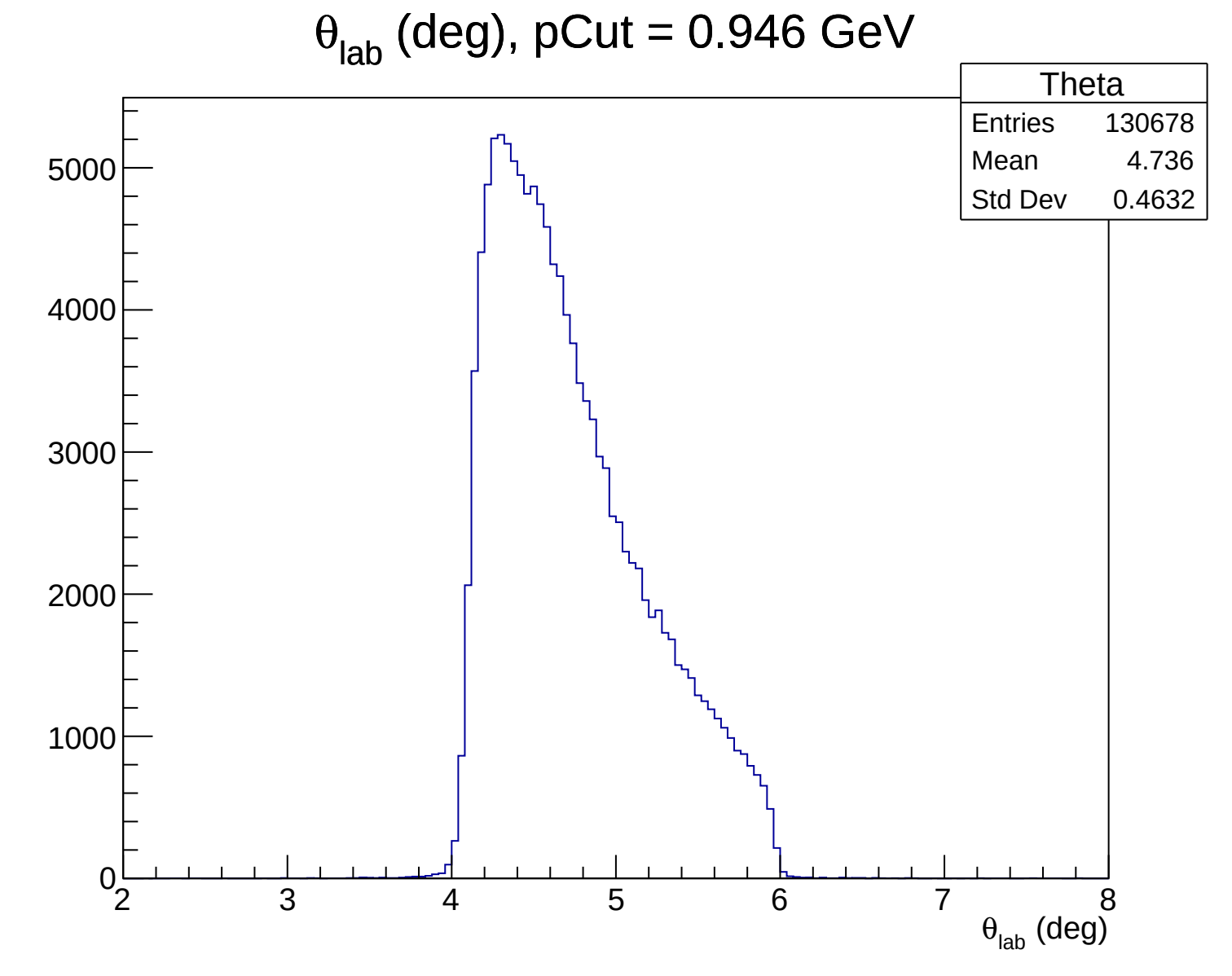

Sensitivity, pCut = 0.945 GeV
sens
Entries 137365
Mean 0.02191
Std Dev 0.00401
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

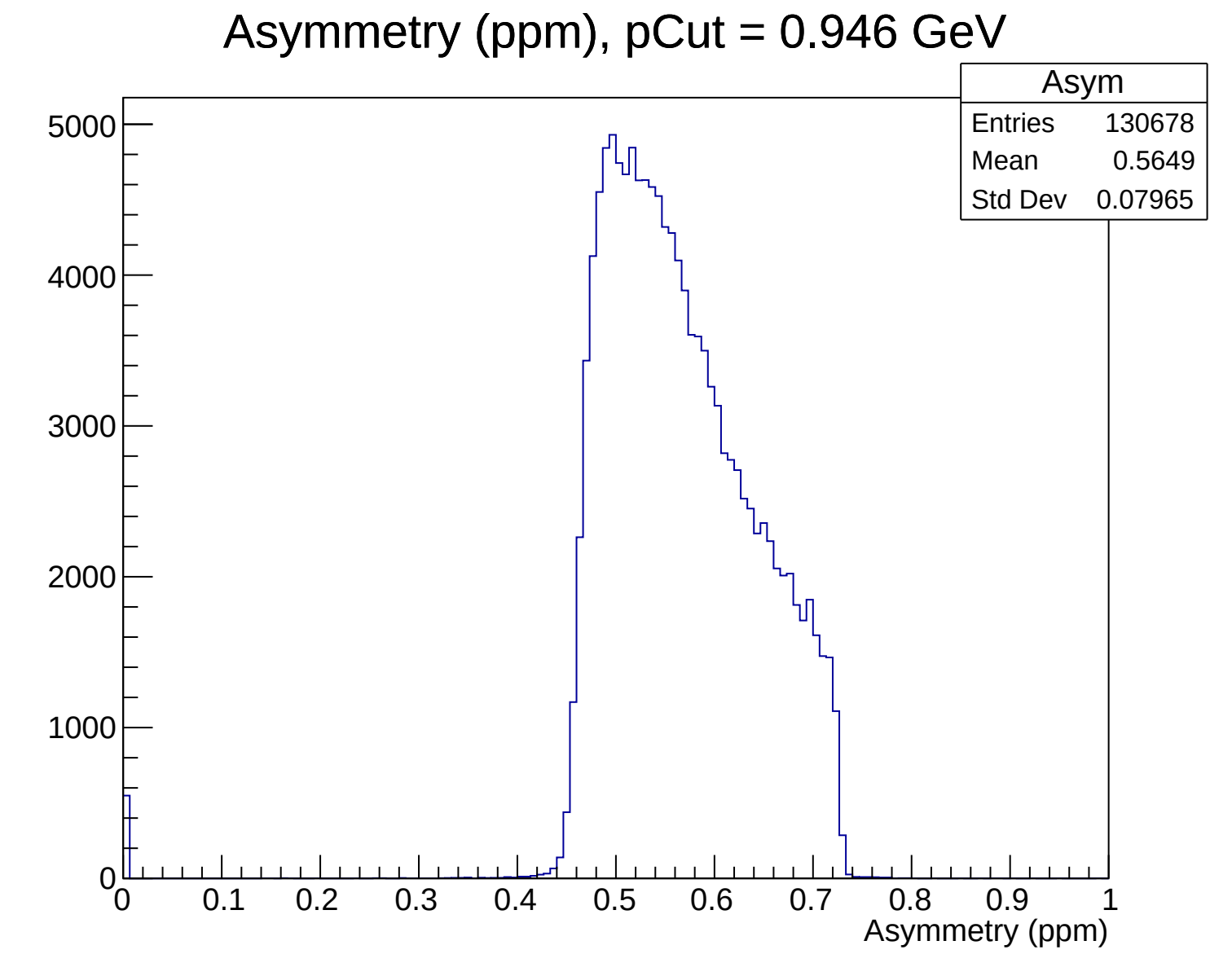
ADC raw (run2322, detZ = 1.3 m)

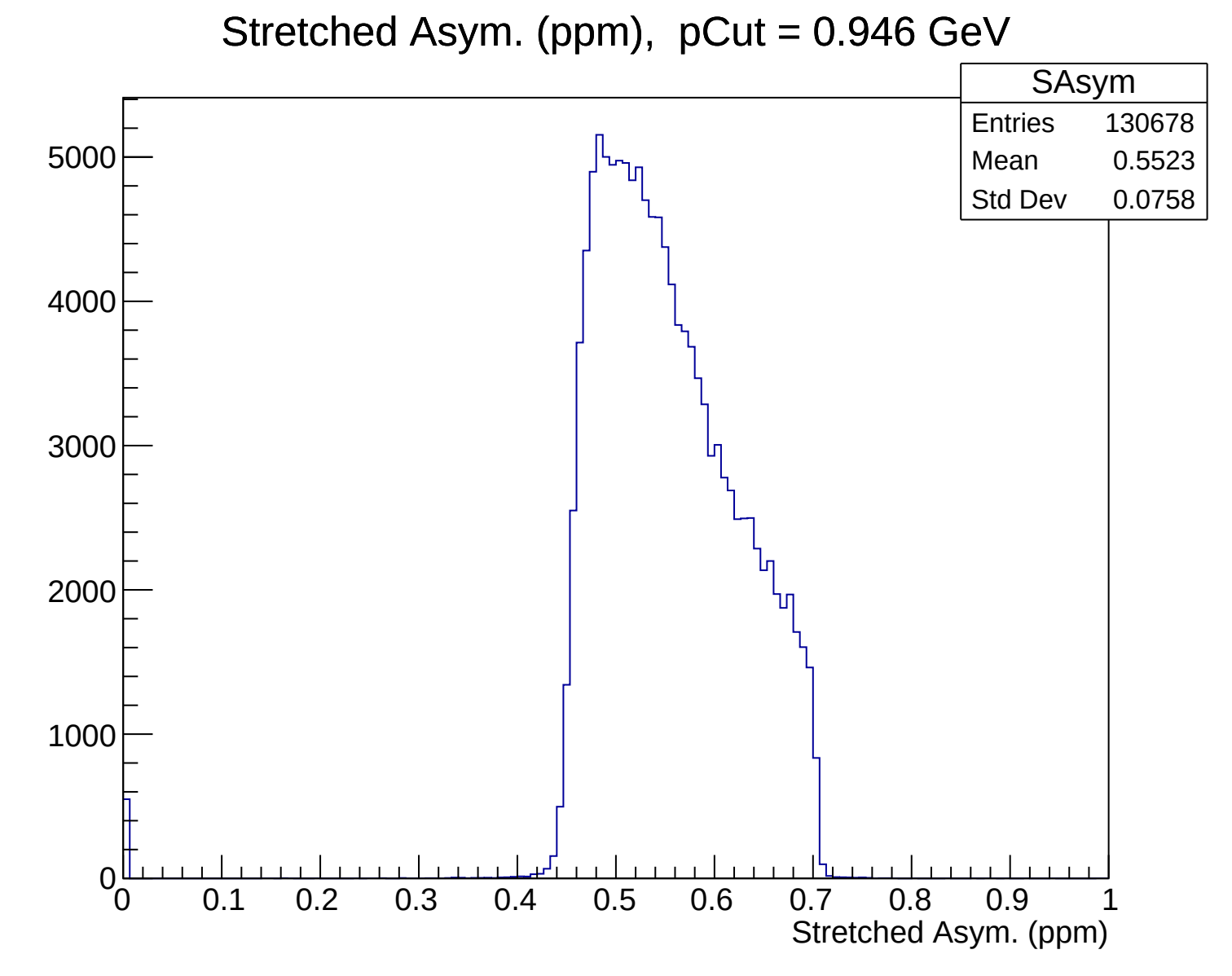


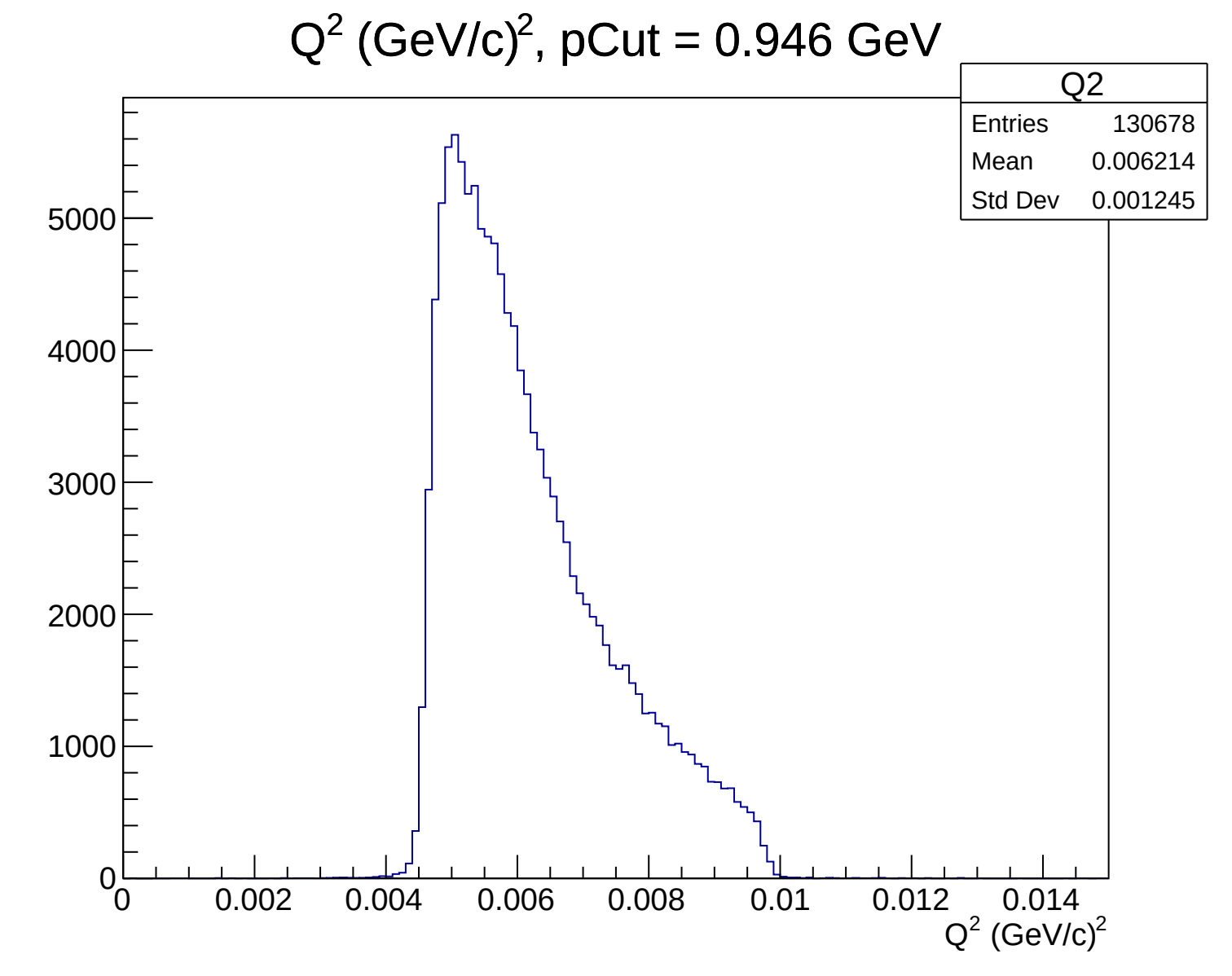

LHRS momentum run2322

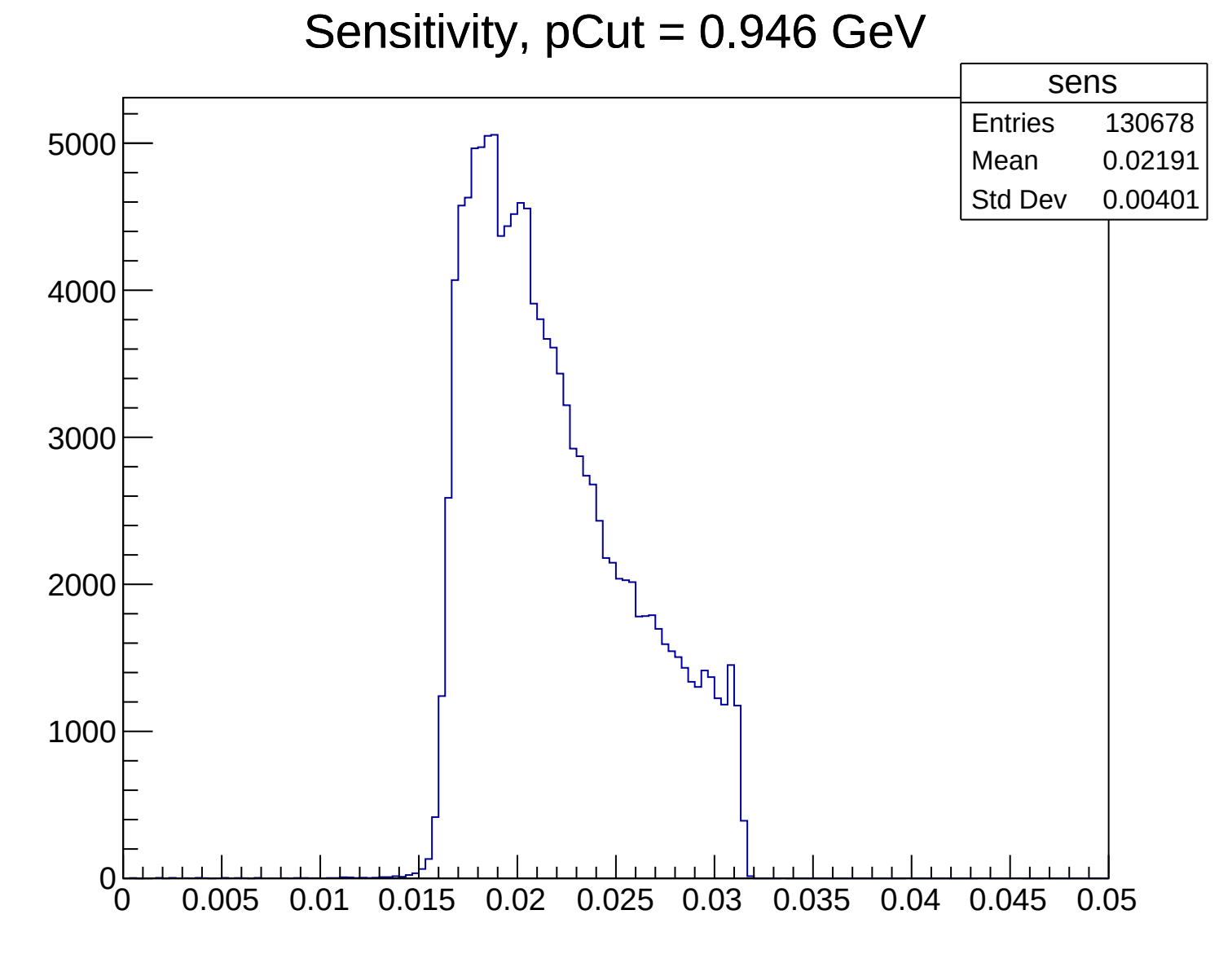



θlab (deg), pCut = 0.946 GeV
Theta
Entries 130678
Mean 4.736
Std Dev 0.4632
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

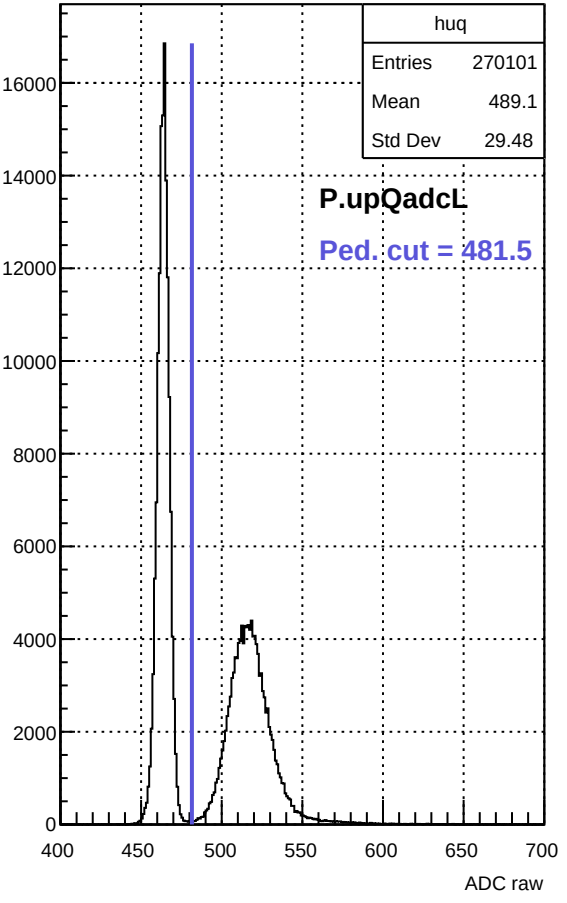

Asymmetry (ppm), pCut = 0.946 GeV
Asym
Entries 130678
Mean 0.5649
Std Dev 0.07965
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.946 GeV
SAsym
Entries 130678
Mean 0.5523
Std Dev 0.0758
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

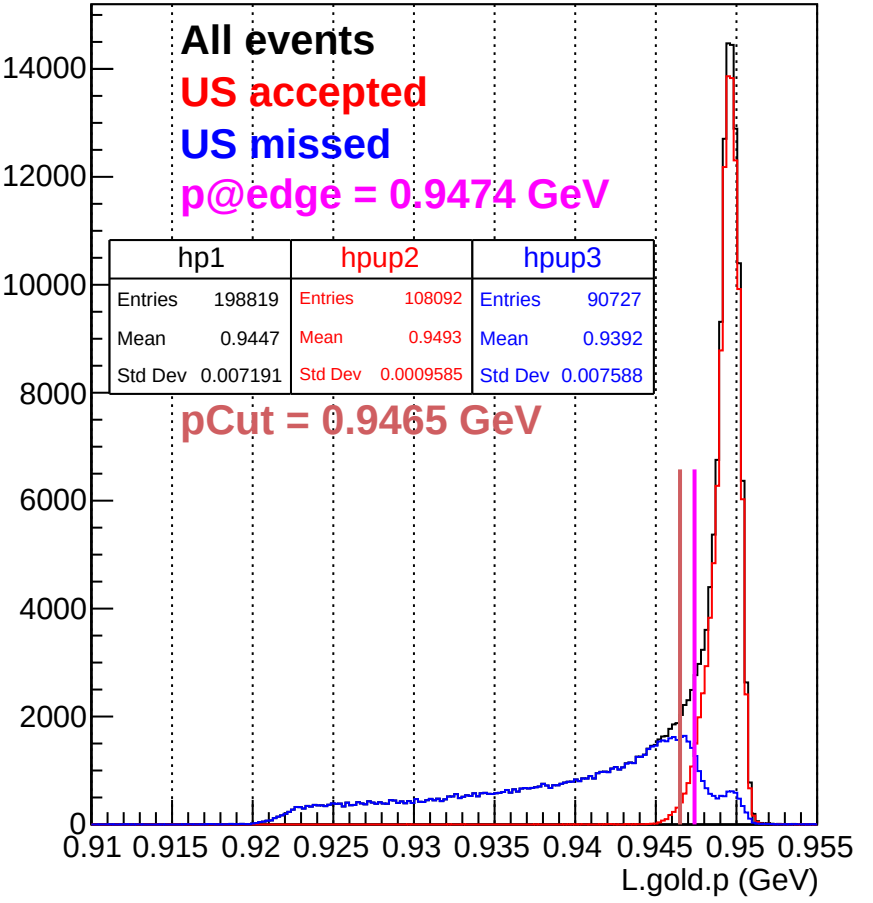

$Q^2$ (GeV/c)$^2$, pCut = 0.946 GeV
Q2
Entries 130678
Mean 0.006214
Std Dev 0.001245
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

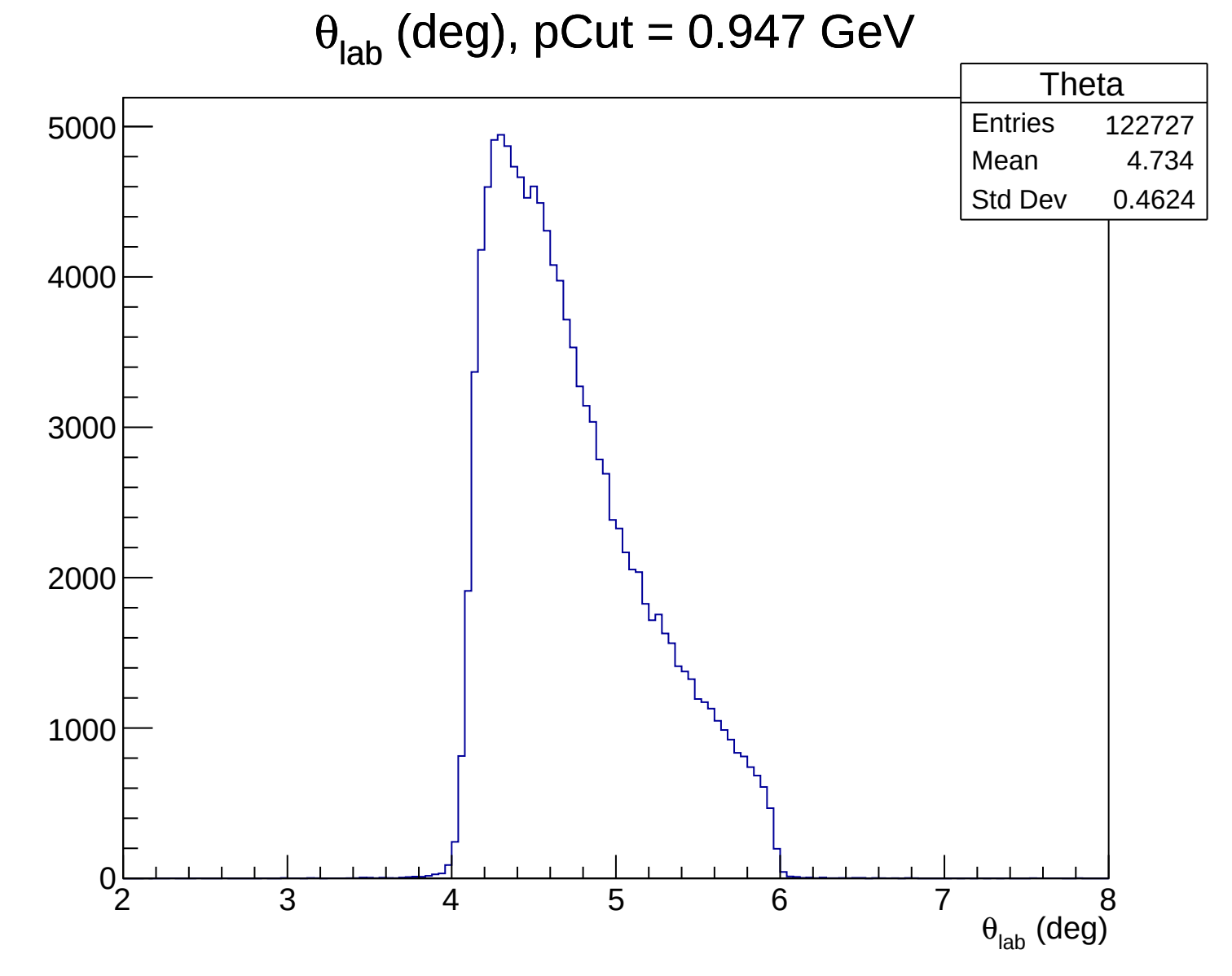

Sensitivity, pCut = 0.946 GeV
sens
Entries 130678
Mean 0.02191
Std Dev 0.00401
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

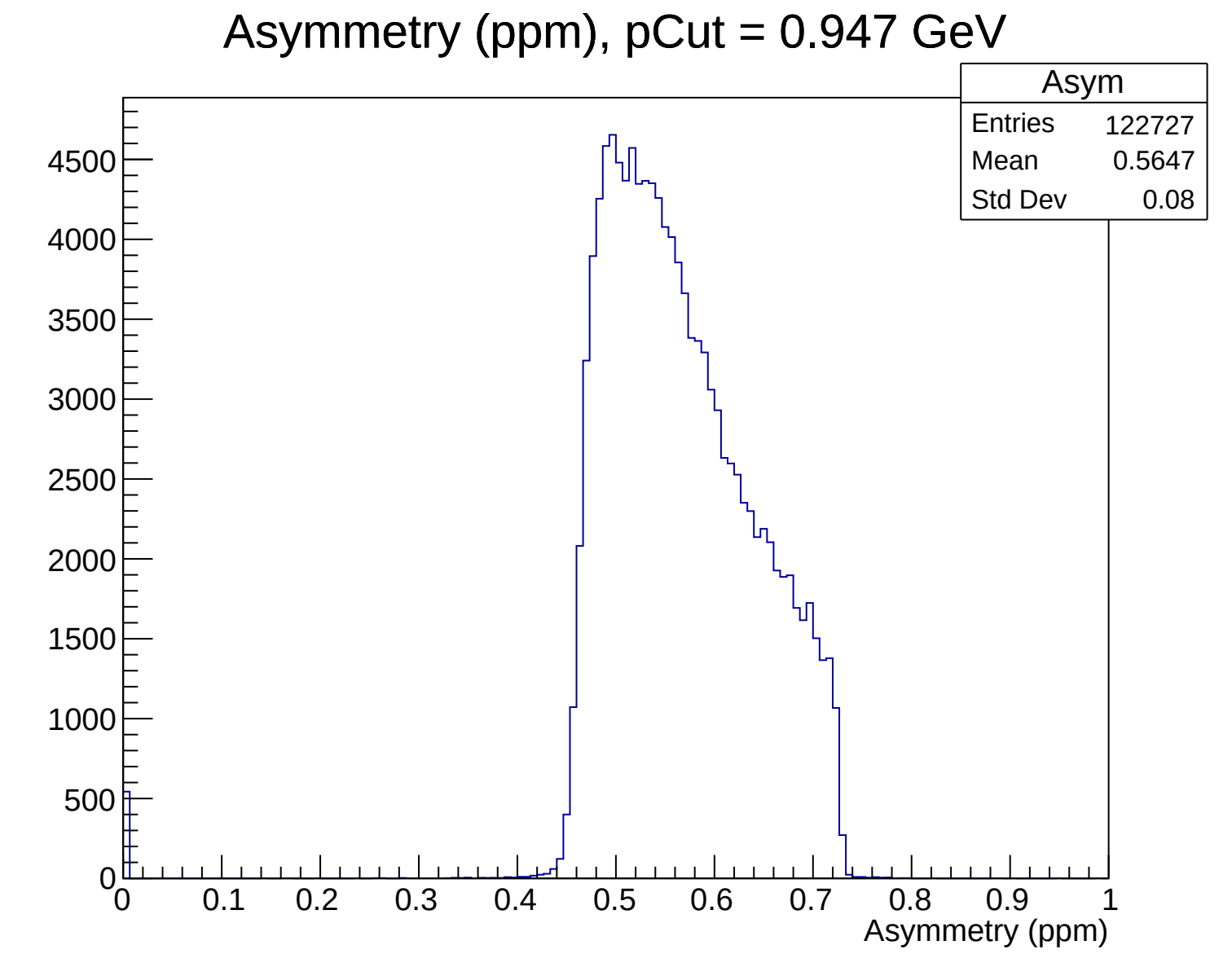
ADC raw (run2322, detZ = 1.3 m)

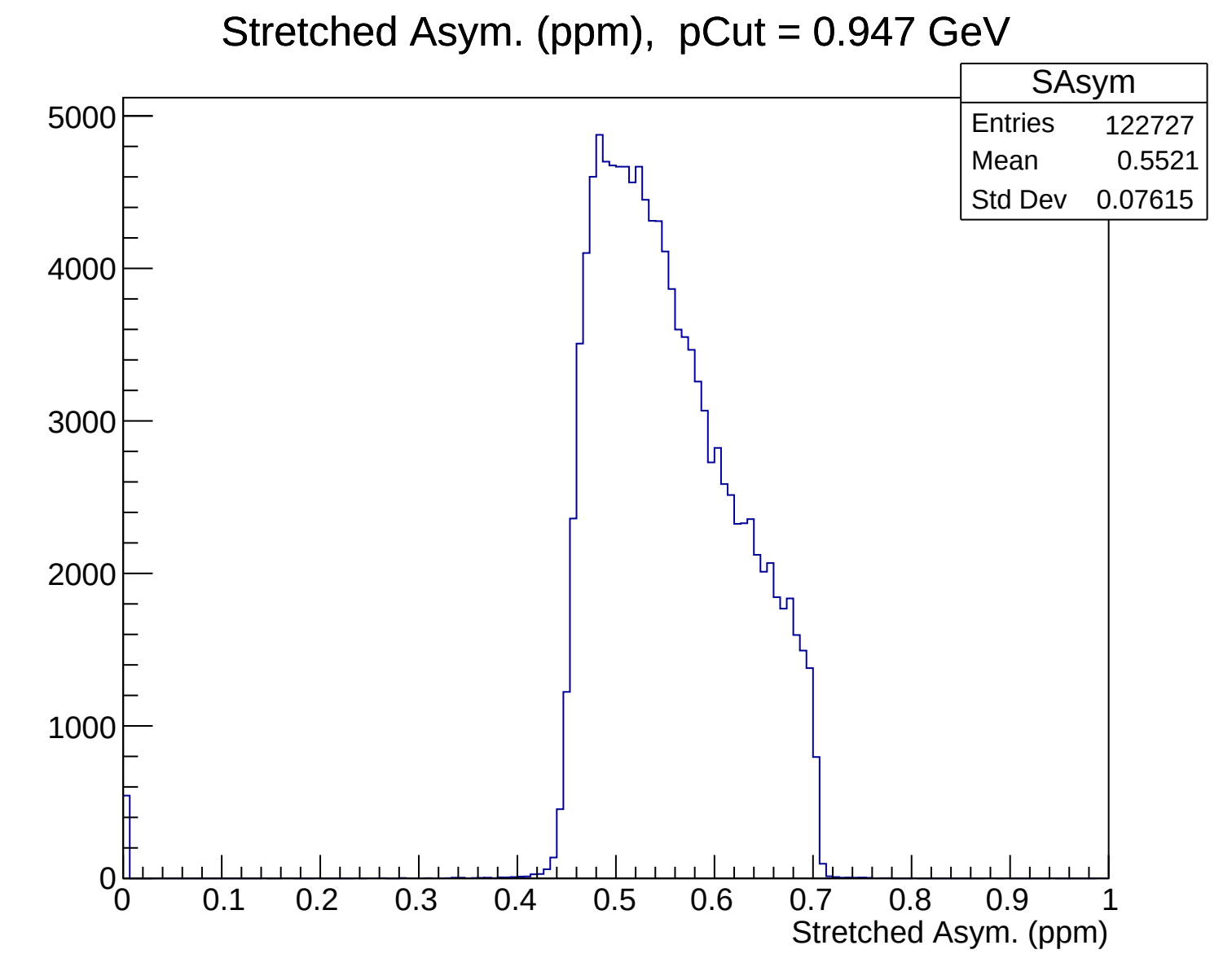


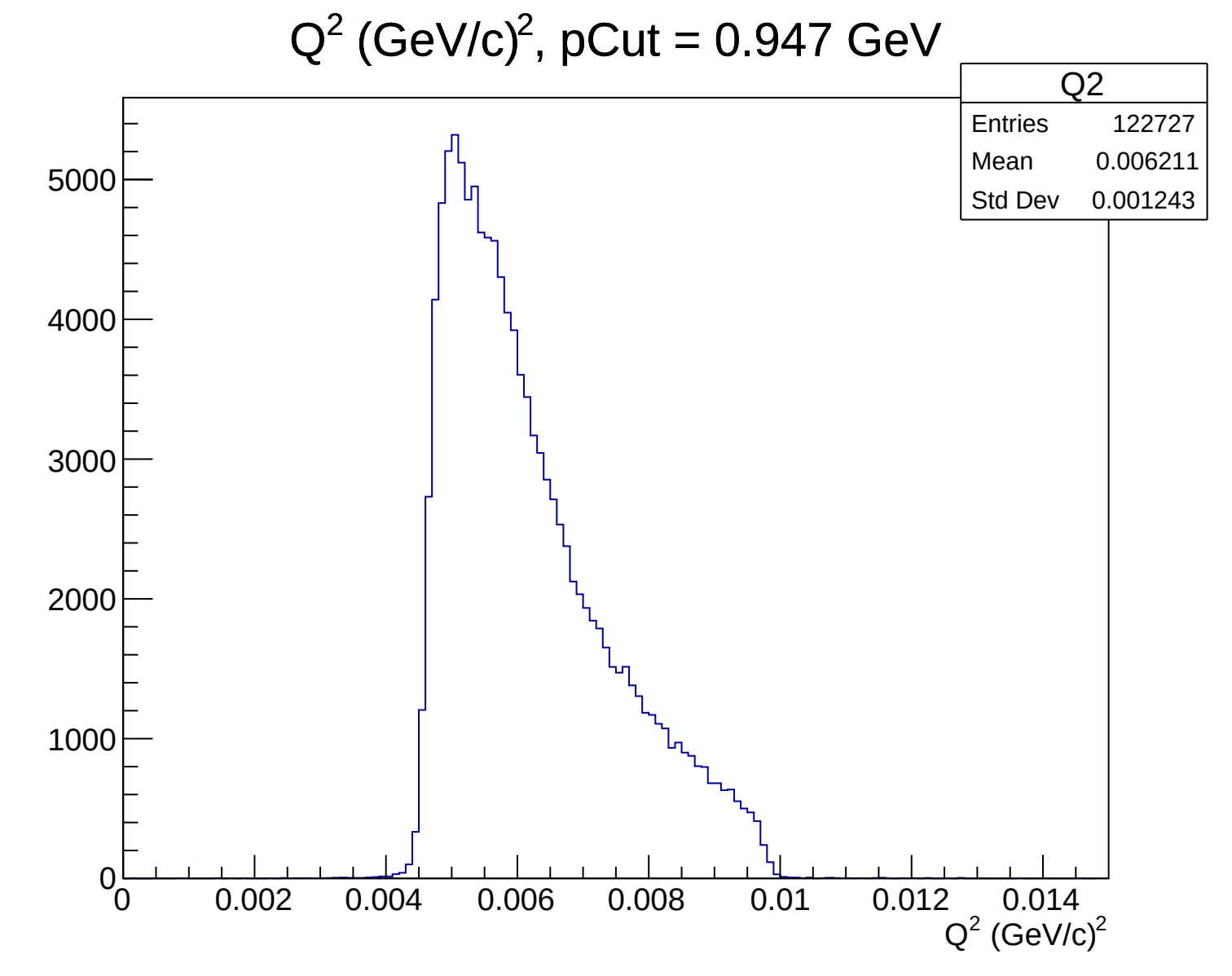

LHRS momentum run2322

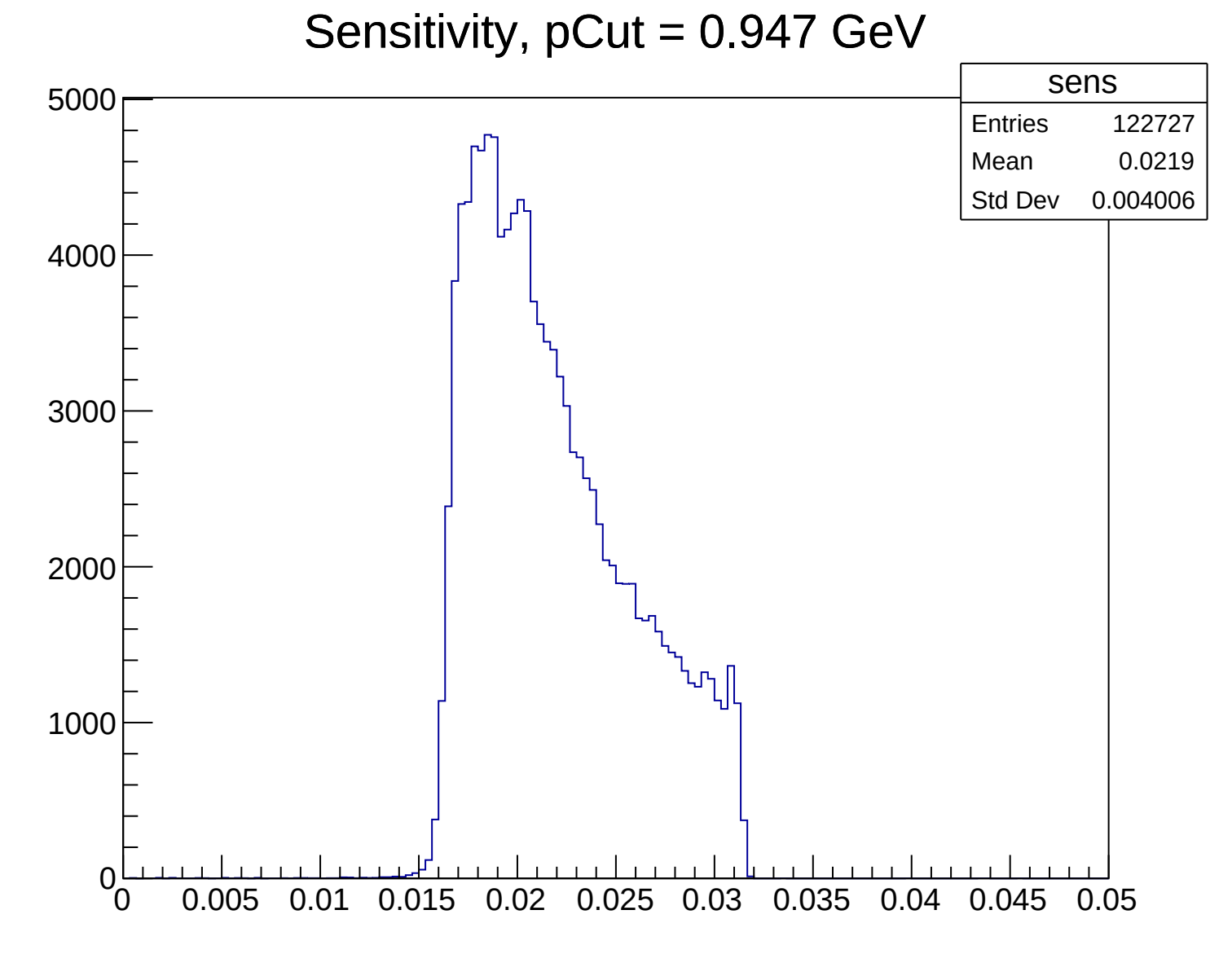



θlab (deg), pCut = 0.947 GeV
Theta
Entries 122727
Mean 4.734
Std Dev 0.4624
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

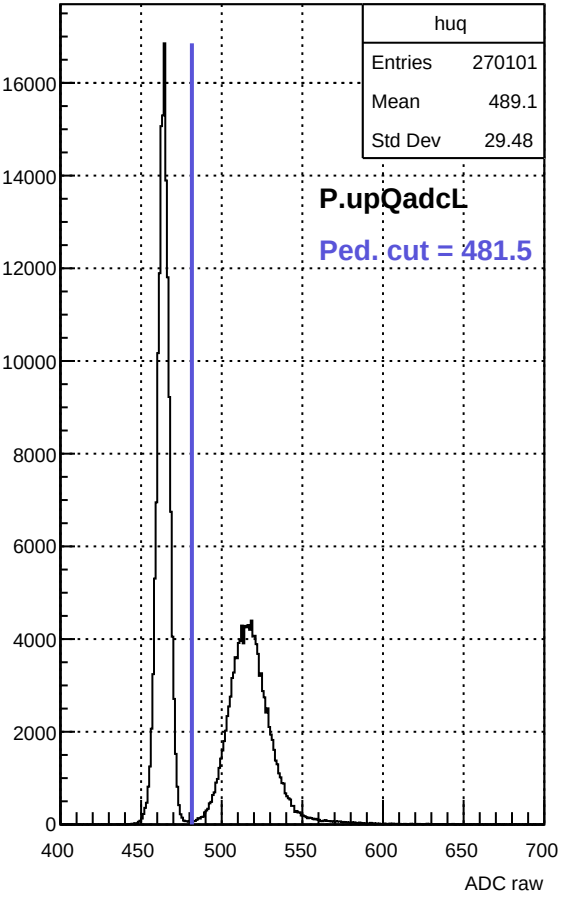

Asymmetry (ppm), pCut = 0.947 GeV
Asym
Entries 122727
Mean 0.5647
Std Dev 0.08
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.947 GeV
SAsym
Entries 122727
Mean 0.5521
Std Dev 0.07615
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

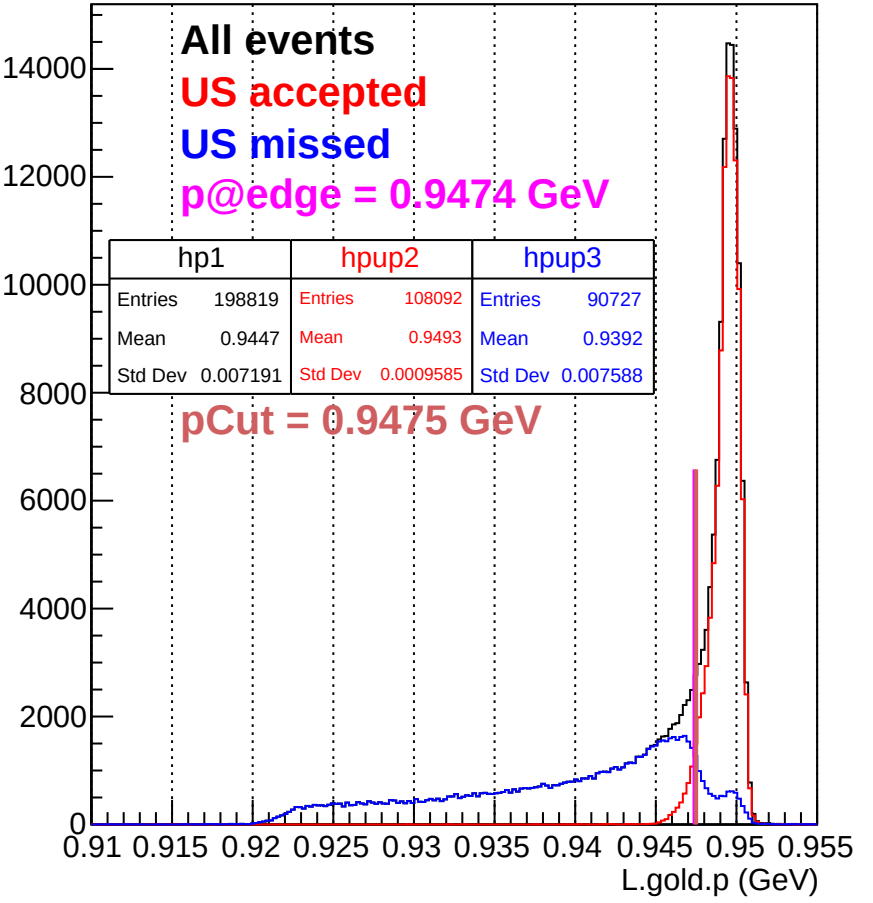

$Q^2$ (GeV/c)$^2$, pCut = 0.947 GeV
Q2
Entries 122727
Mean 0.006211
Std Dev 0.001243
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

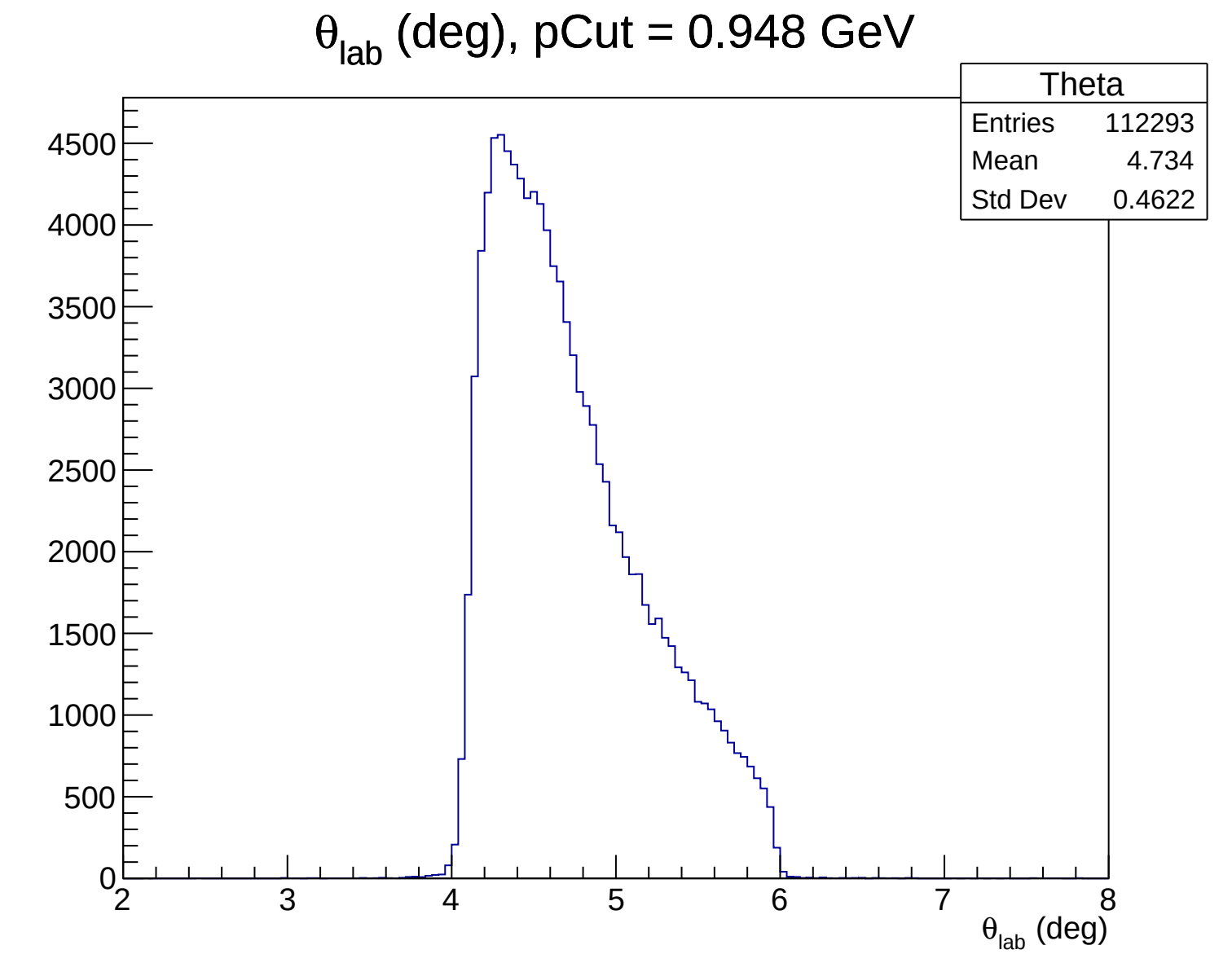

Sensitivity, pCut = 0.947 GeV
sens
Entries 122727
Mean 0.0219
Std Dev 0.004006
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

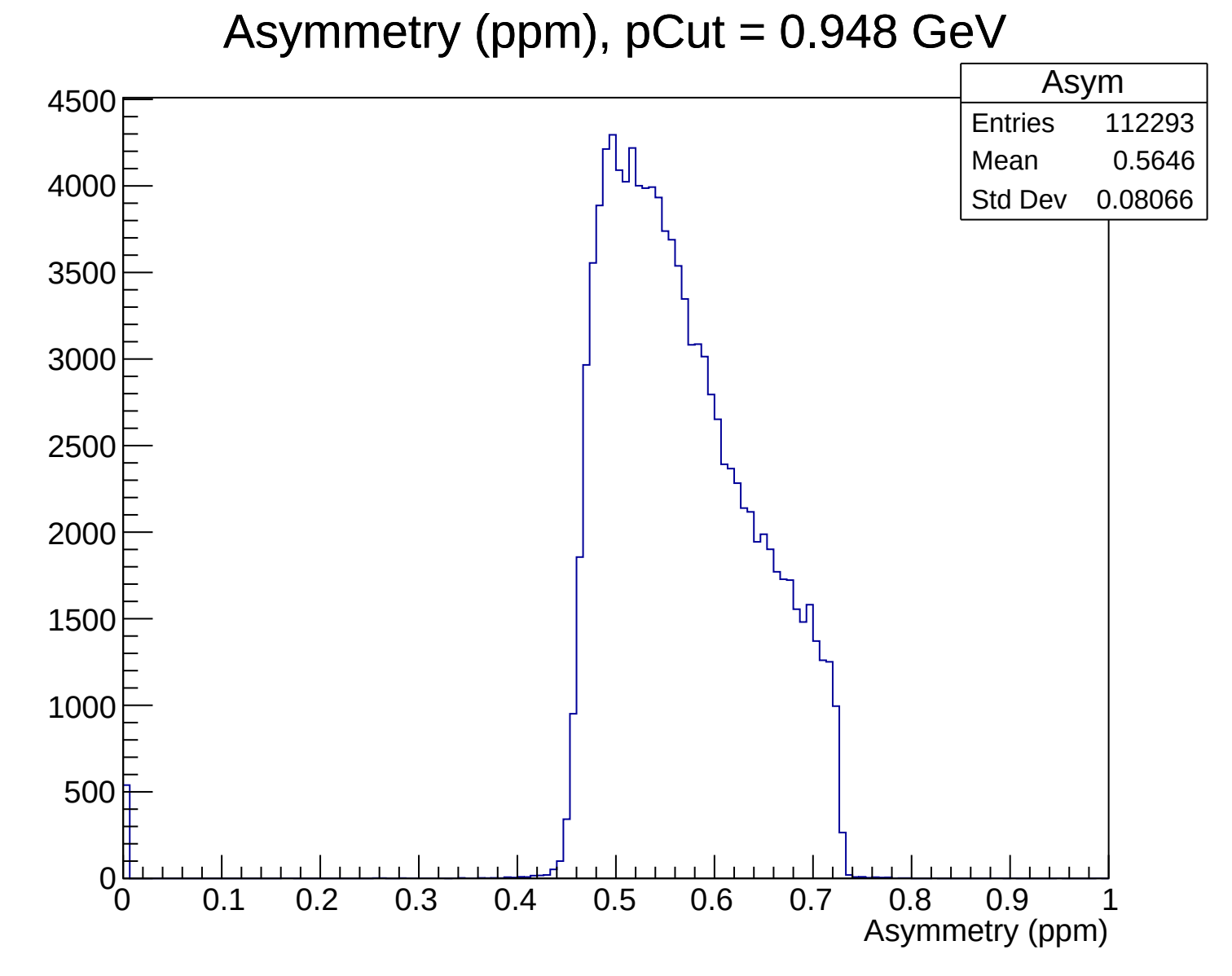
ADC raw (run2322, detZ = 1.3 m)

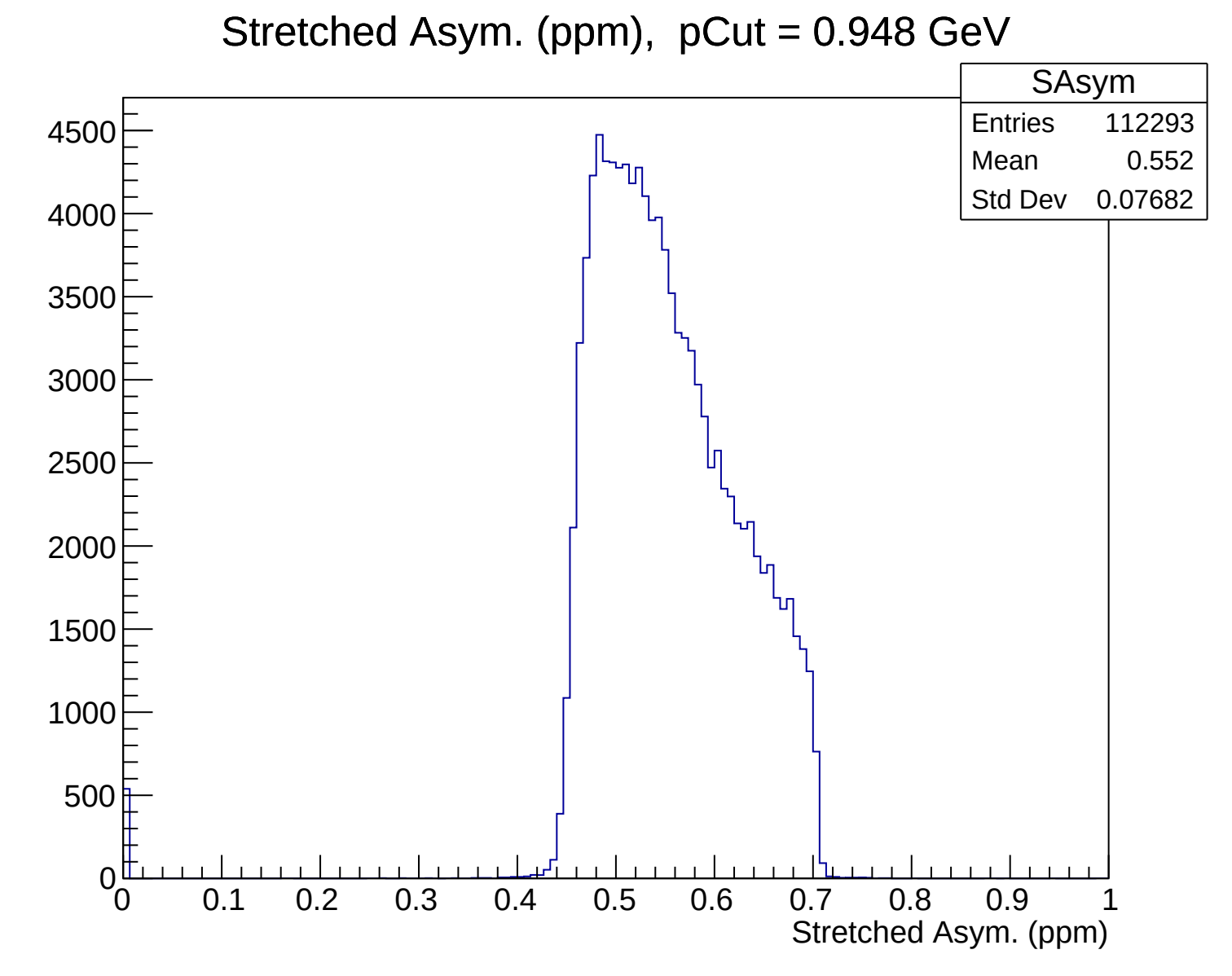


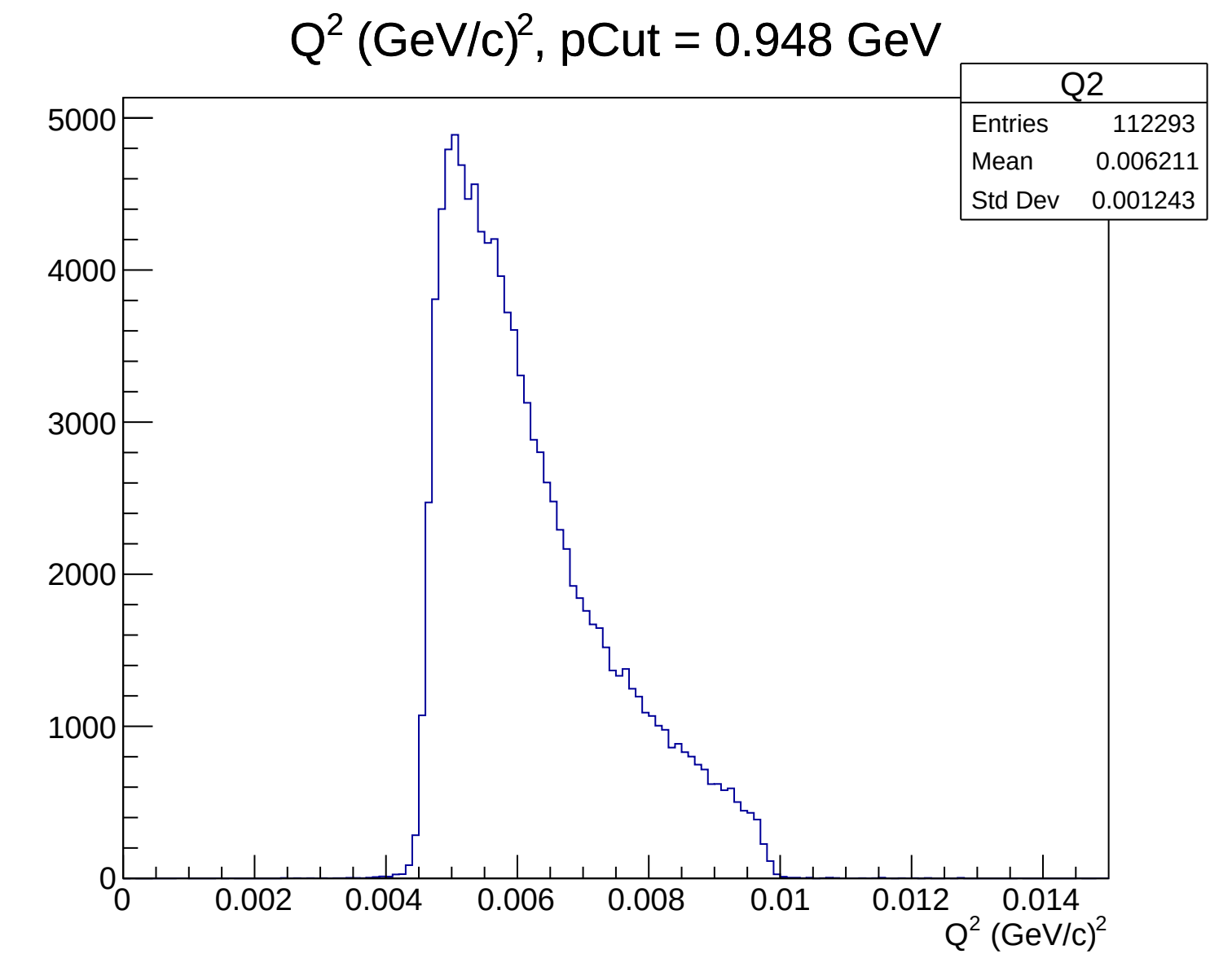

LHRS momentum run2322

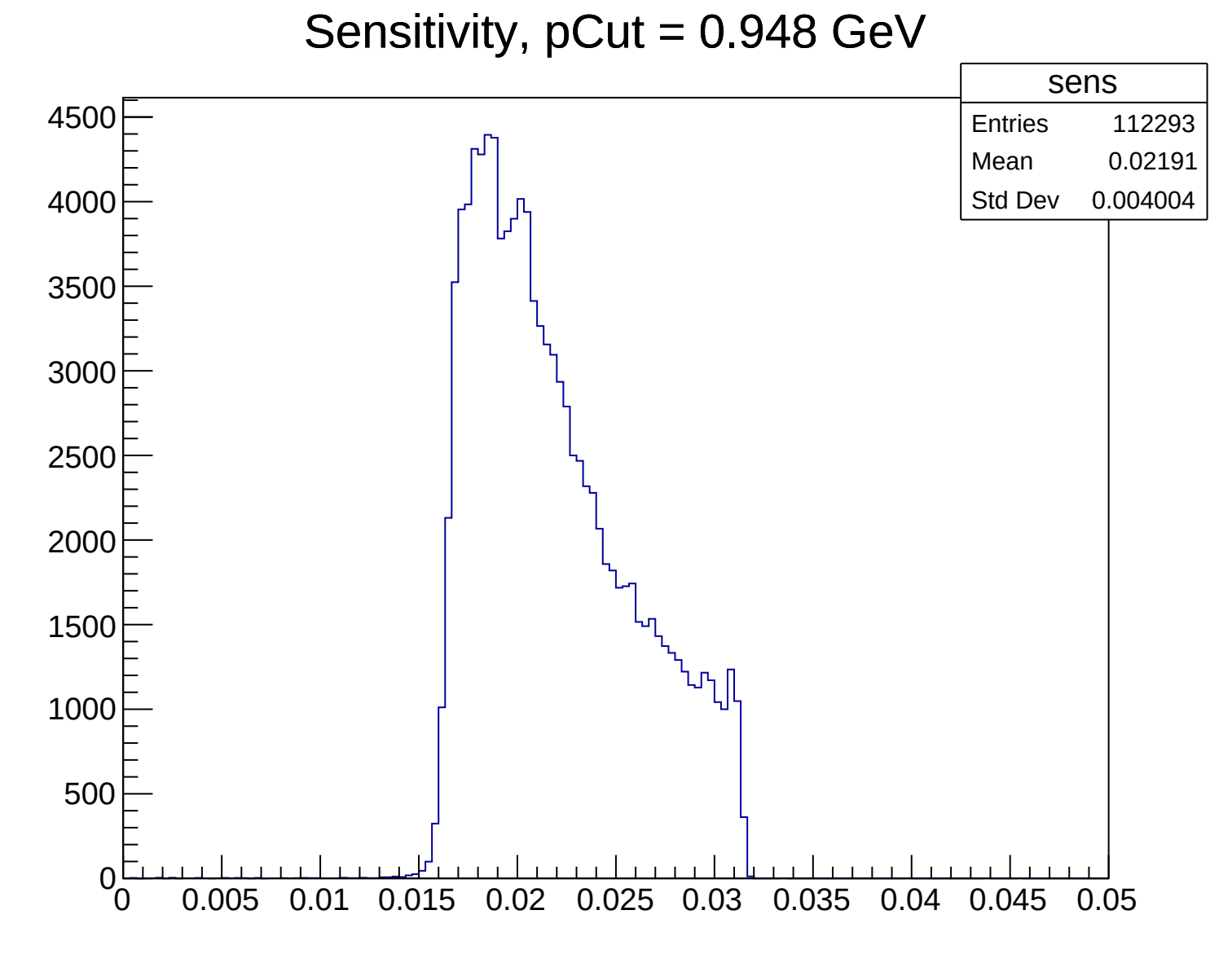



θlab (deg), pCut = 0.948 GeV
Theta
Entries 112293
Mean 4.734
Std Dev 0.4622
4500
4000
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

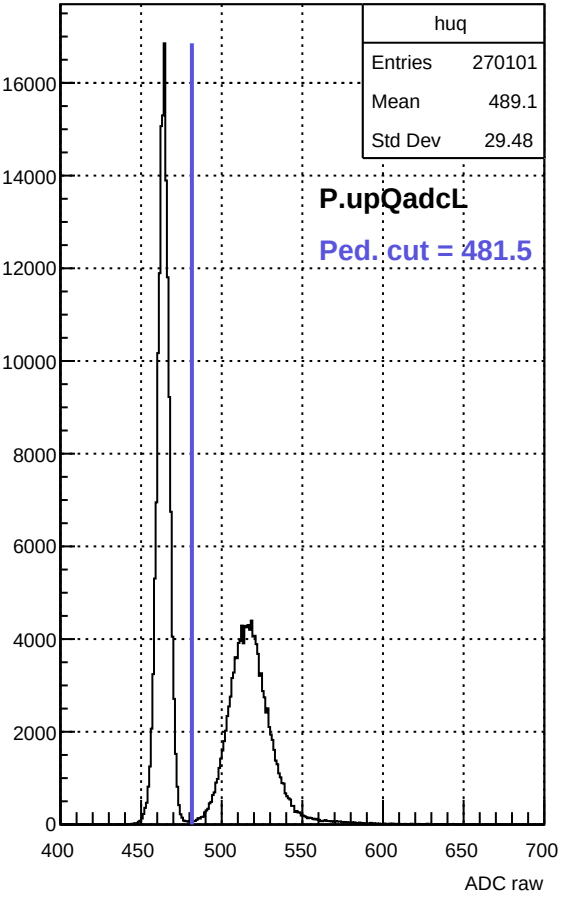

Asymmetry (ppm), pCut = 0.948 GeV
Asym
Entries 112293
Mean 0.5646
Std Dev 0.08066
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.948 GeV
SAsym
Entries 112293
Mean 0.552
Std Dev 0.07682
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

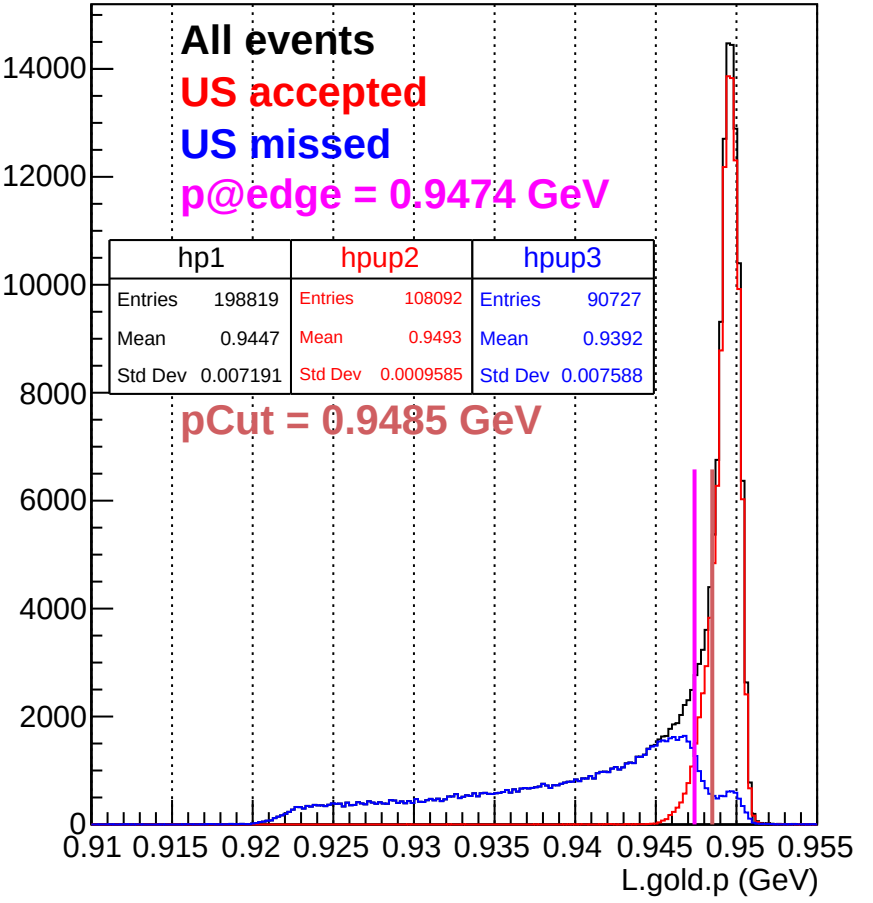

$Q^2$ (GeV/c)$^2$, pCut = 0.948 GeV
Q2
Entries 112293
Mean 0.006211
Std Dev 0.001243
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$

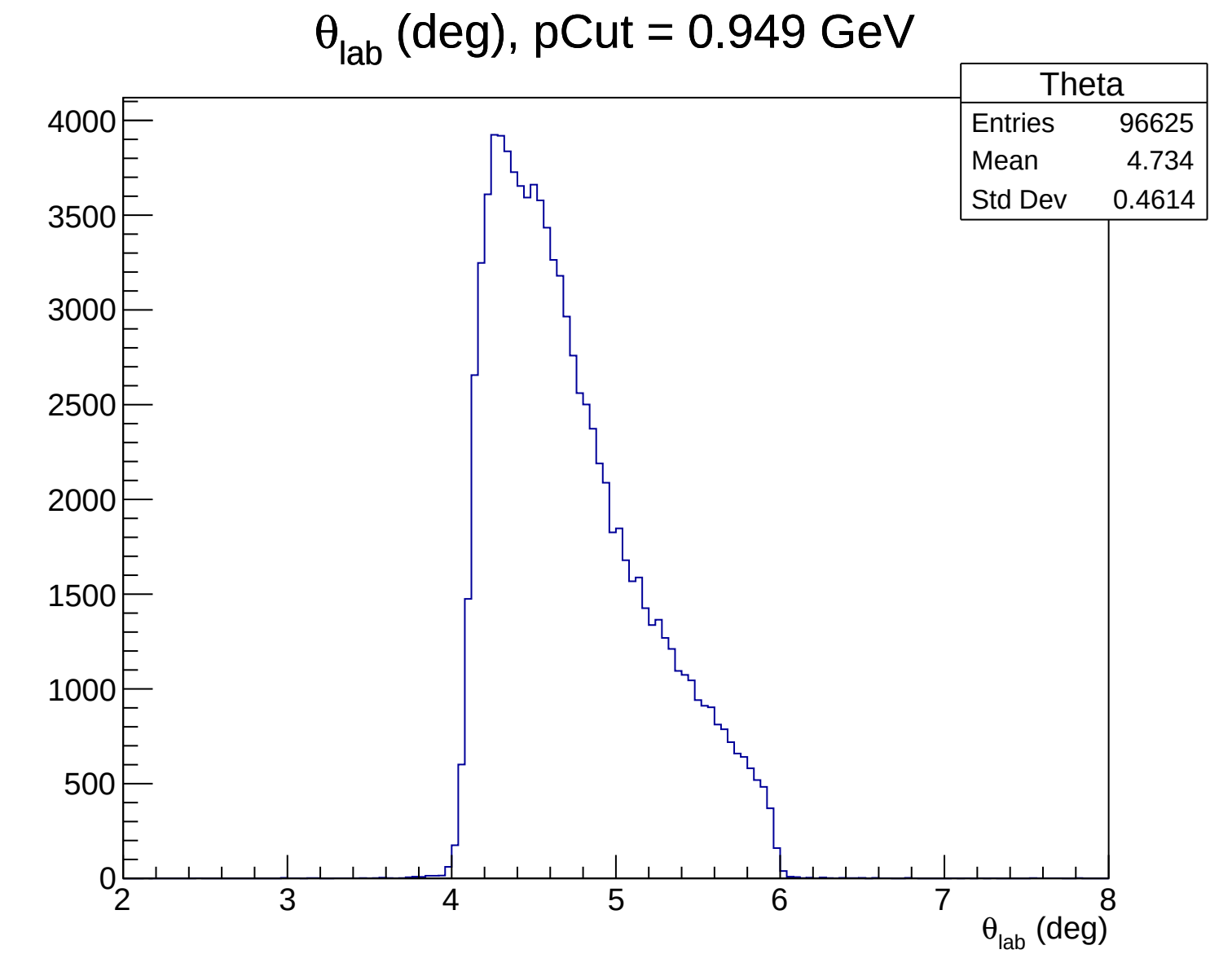

Sensitivity, pCut = 0.948 GeV
sens
Entries 112293
Mean 0.02191
Std Dev 0.004004
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

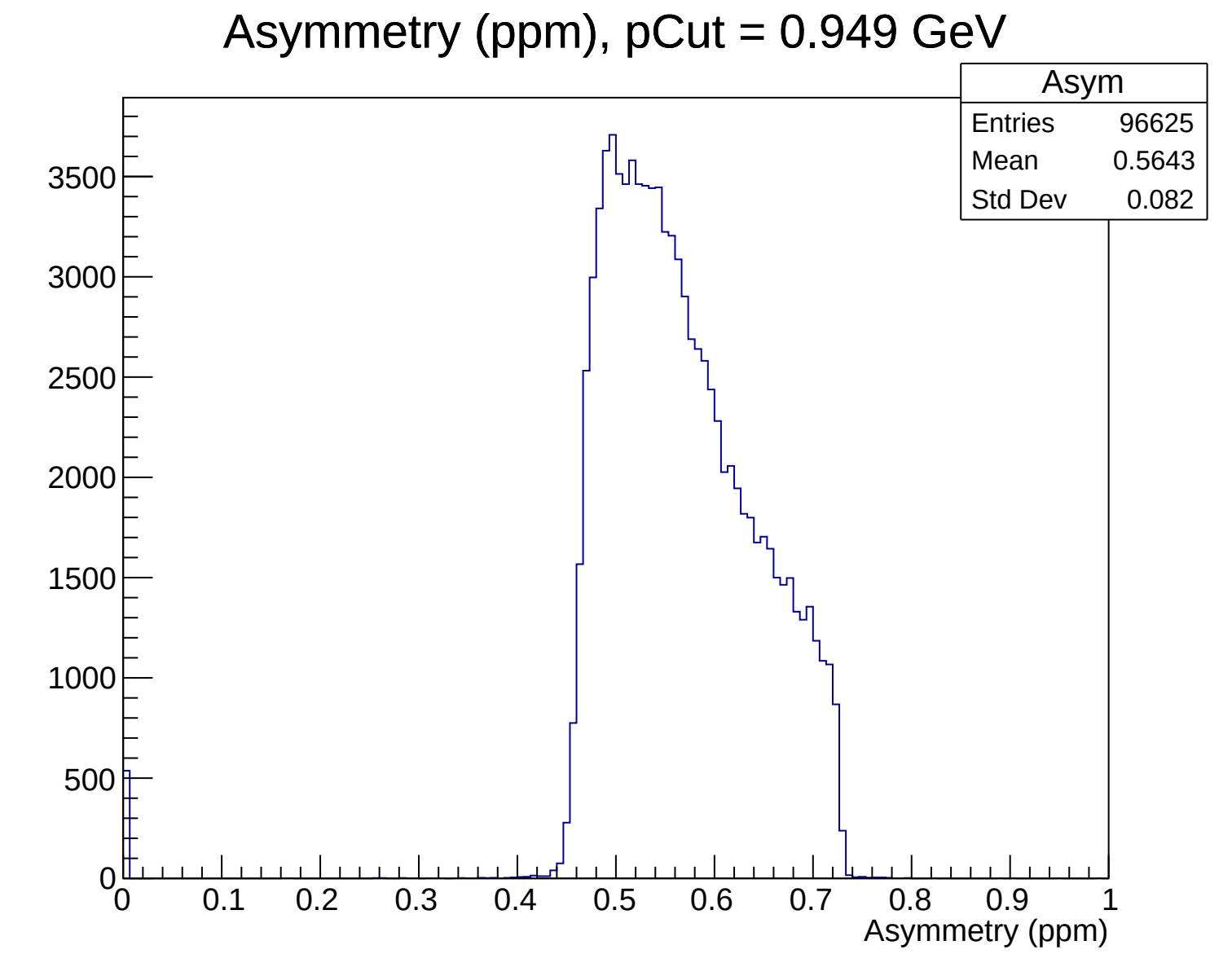
ADC raw (run2322, detZ = 1.3 m)

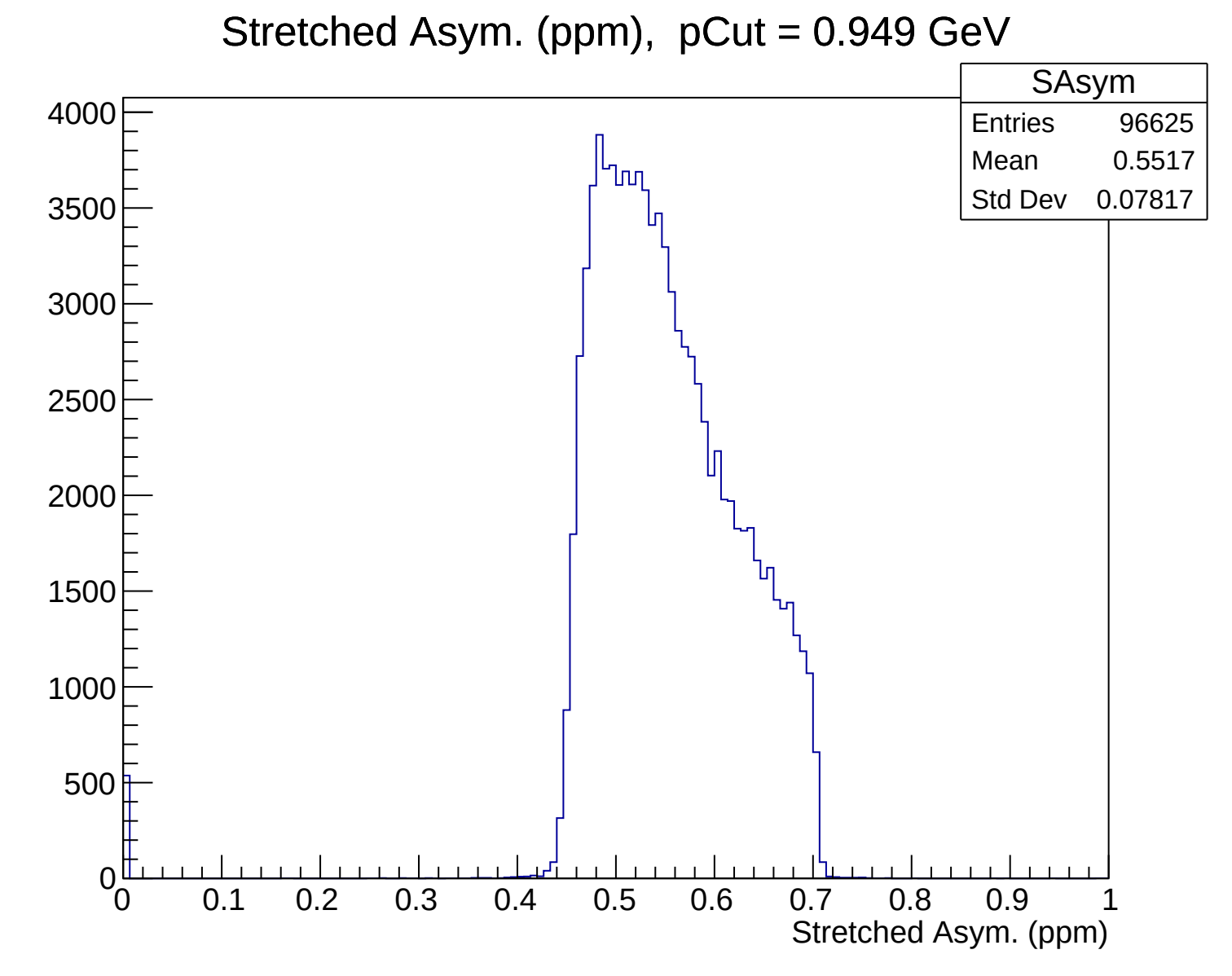


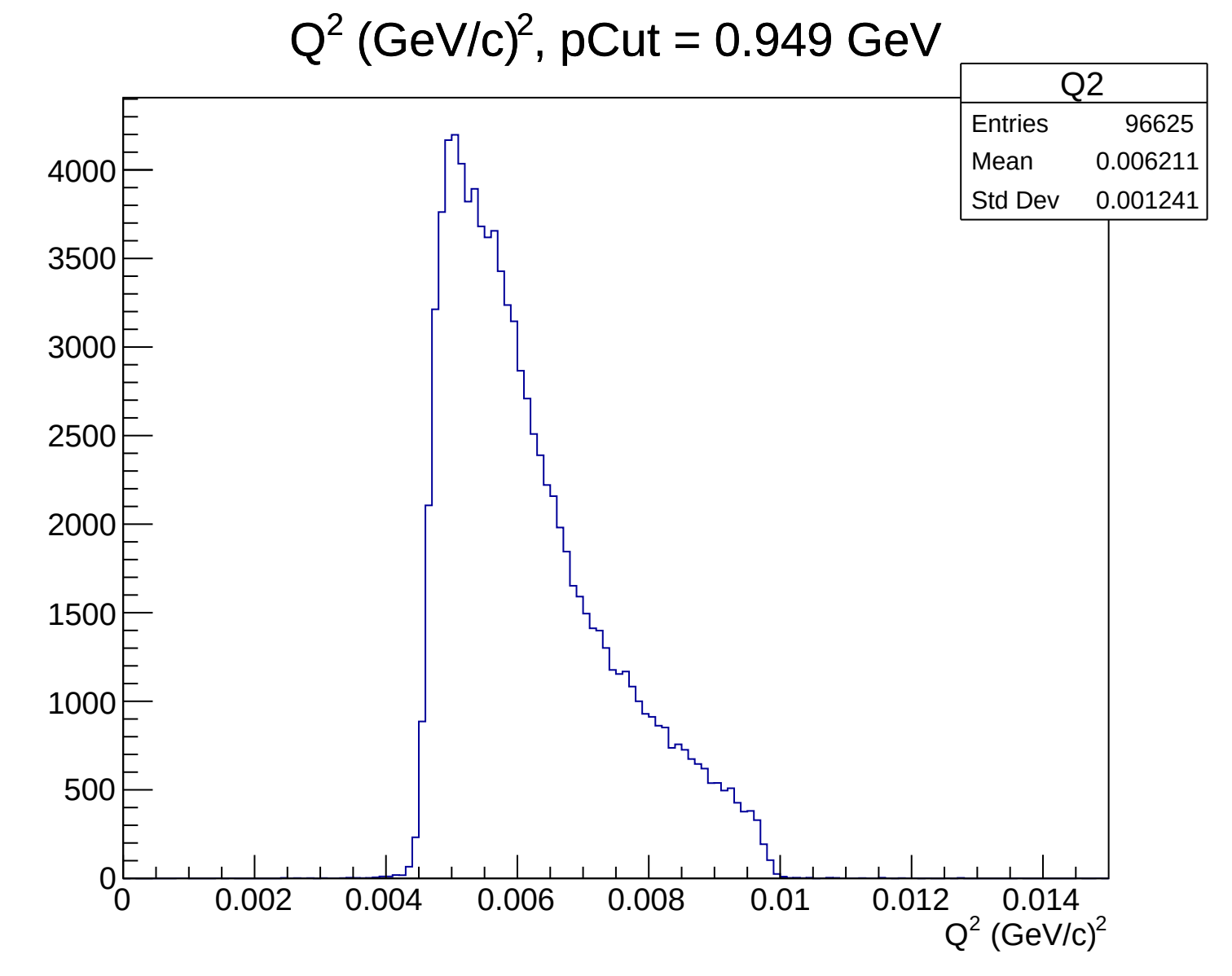

LHRS momentum run2322

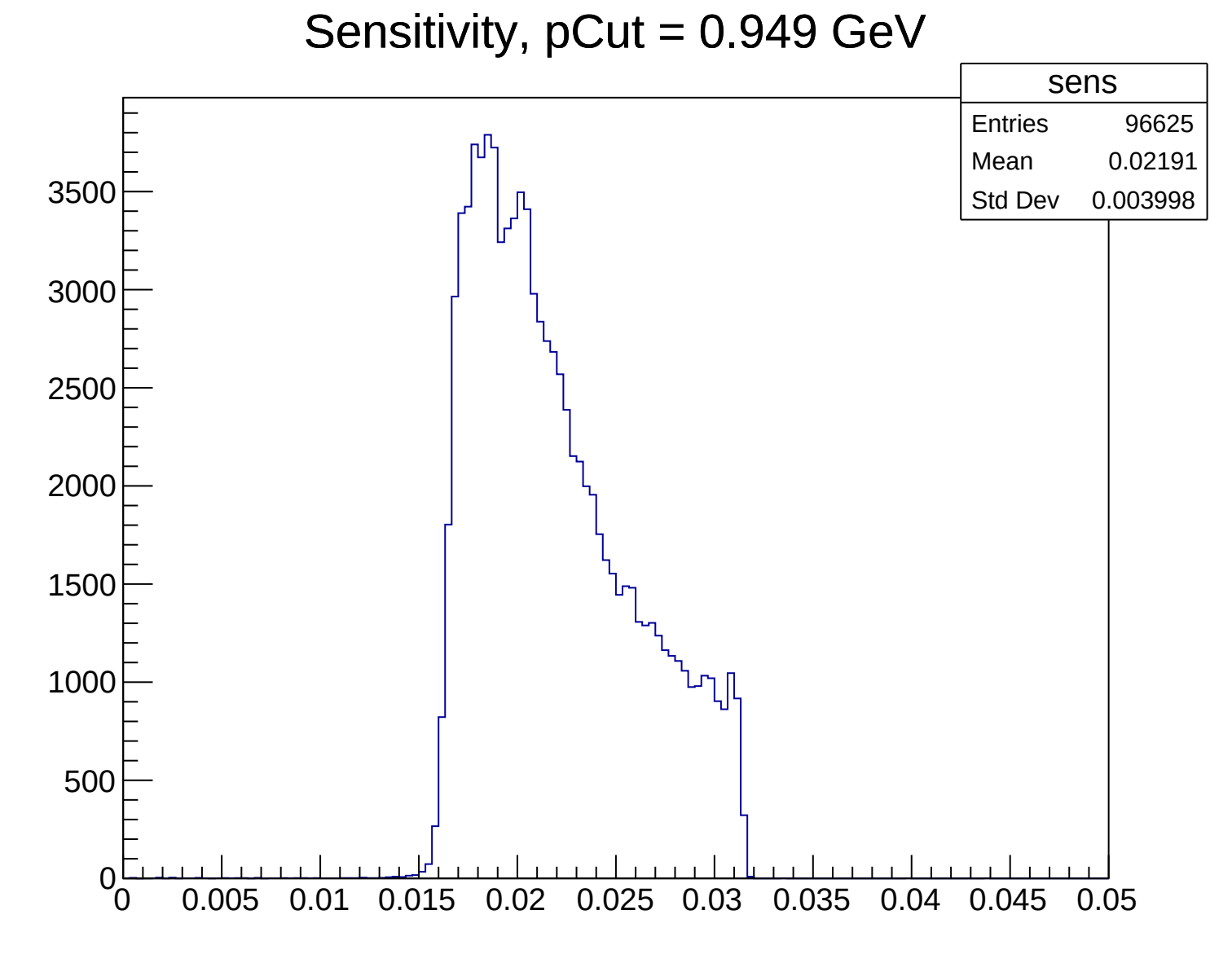



θlab (deg), pCut = 0.949 GeV
Theta
Entries 96625
Mean 4.734
Std Dev 0.4614
4000
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), pCut = 0.949 GeV
Asym
Entries 96625
Mean 0.5643
Std Dev 0.082
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm),  pCut = 0.949 GeV
SAsym
Entries 96625
Mean 0.5517
Std Dev 0.07817
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)


$Q^2$ (GeV/c)$^2$, pCut = 0.949 GeV
Q2
Entries 96625
Mean 0.006211
Std Dev 0.001241
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
$Q^2$ (GeV/c)$^2$


Sensitivity, pCut = 0.949 GeV
sens
Entries 96625
Mean 0.02191
Std Dev 0.003998
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05