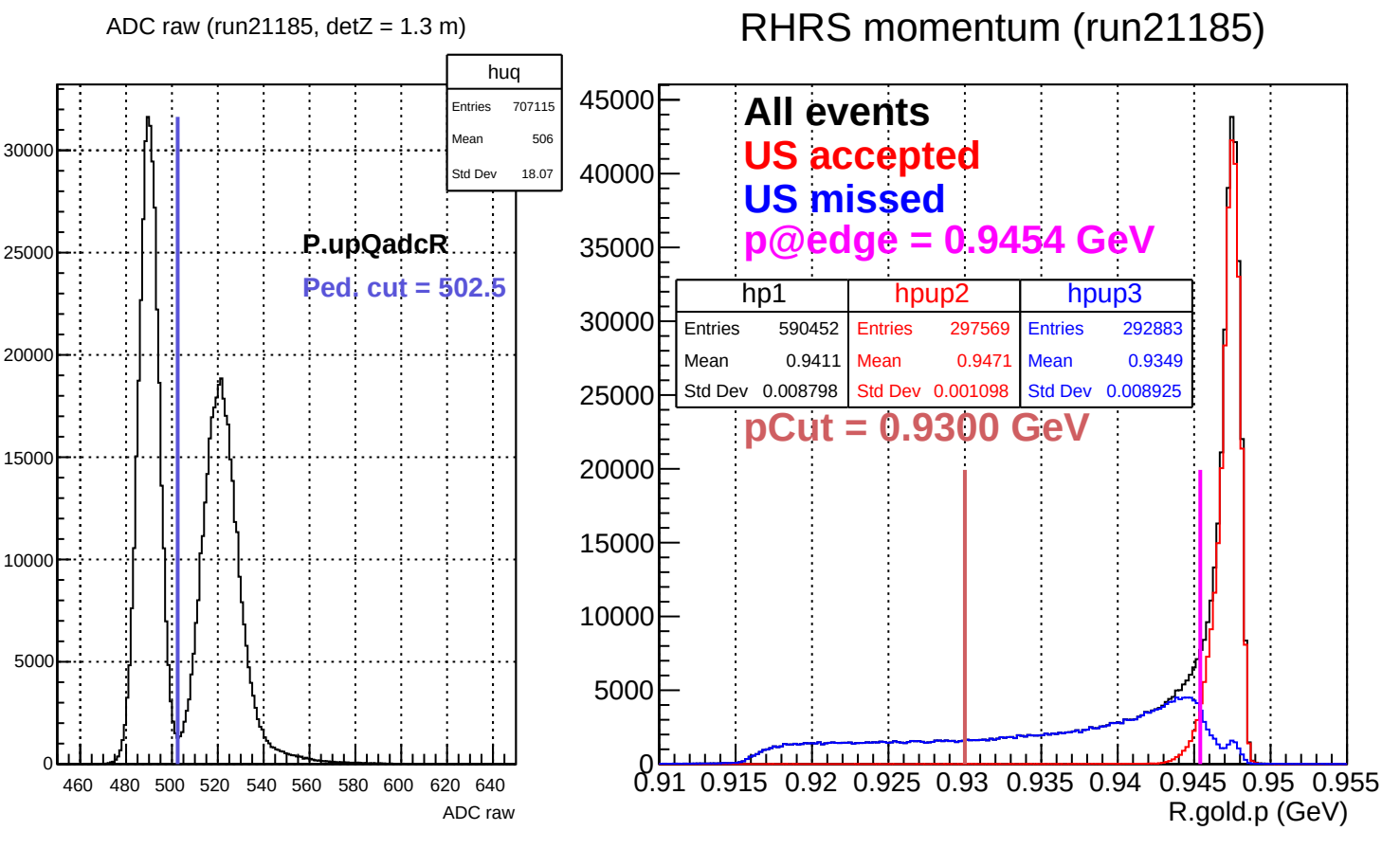
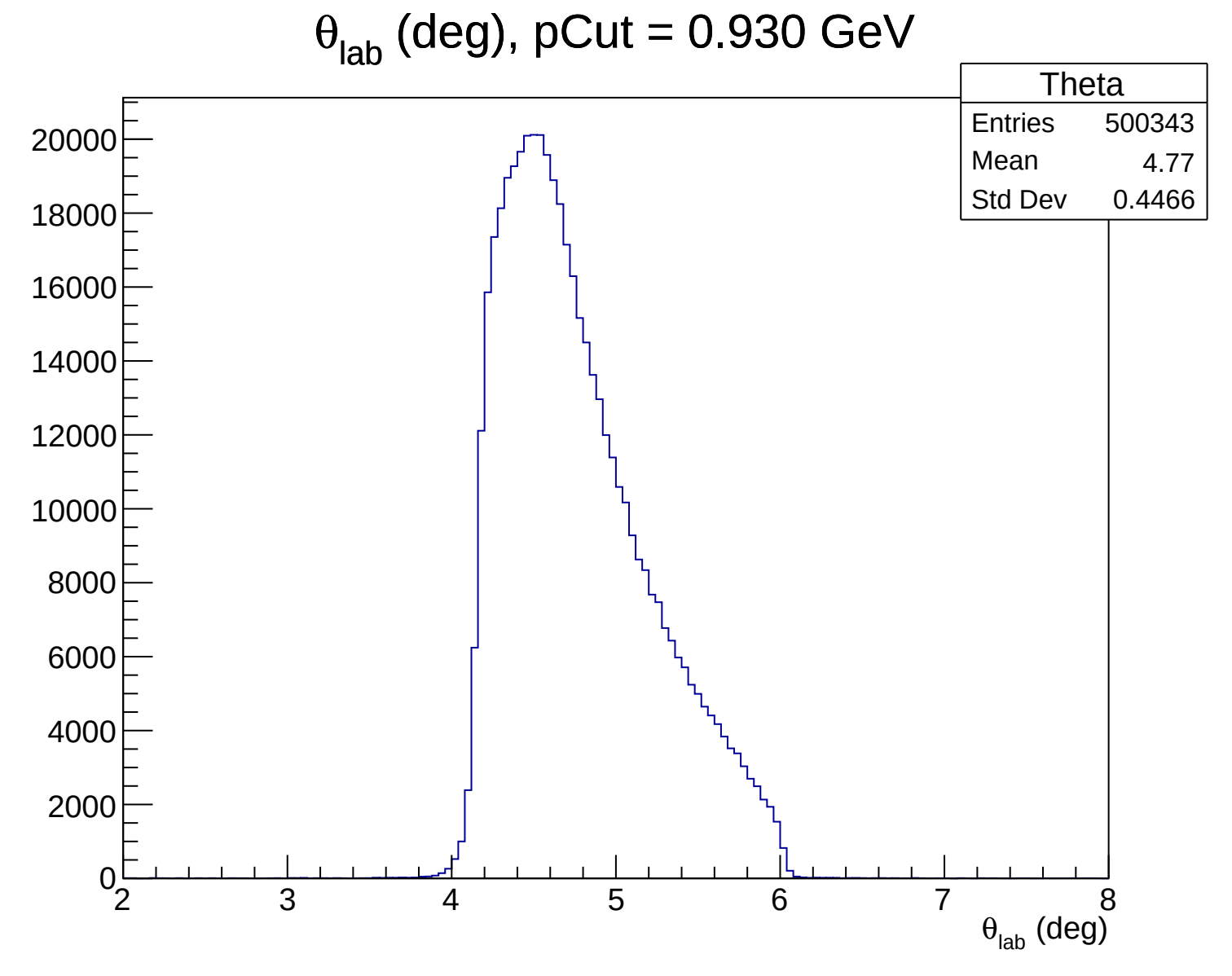
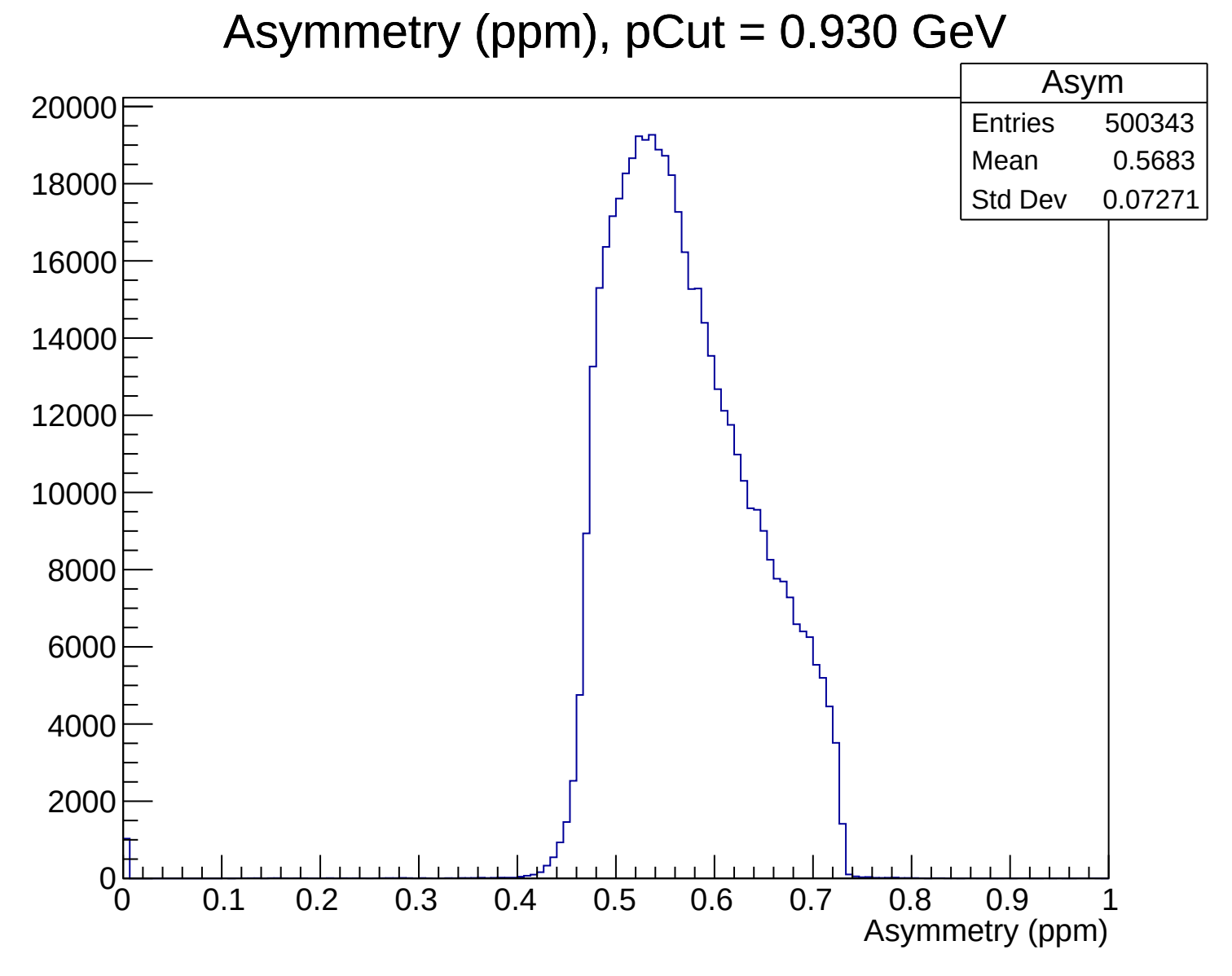
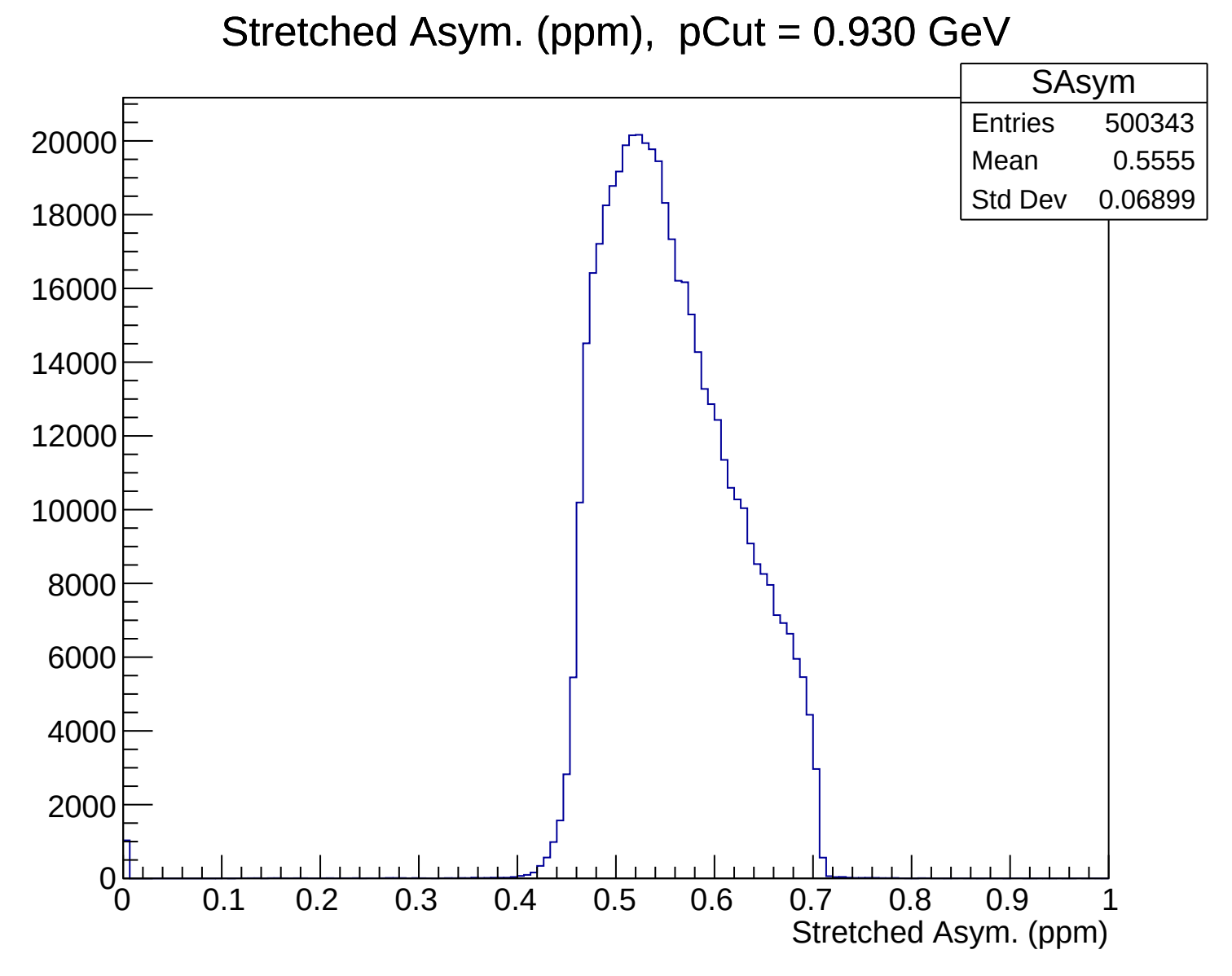
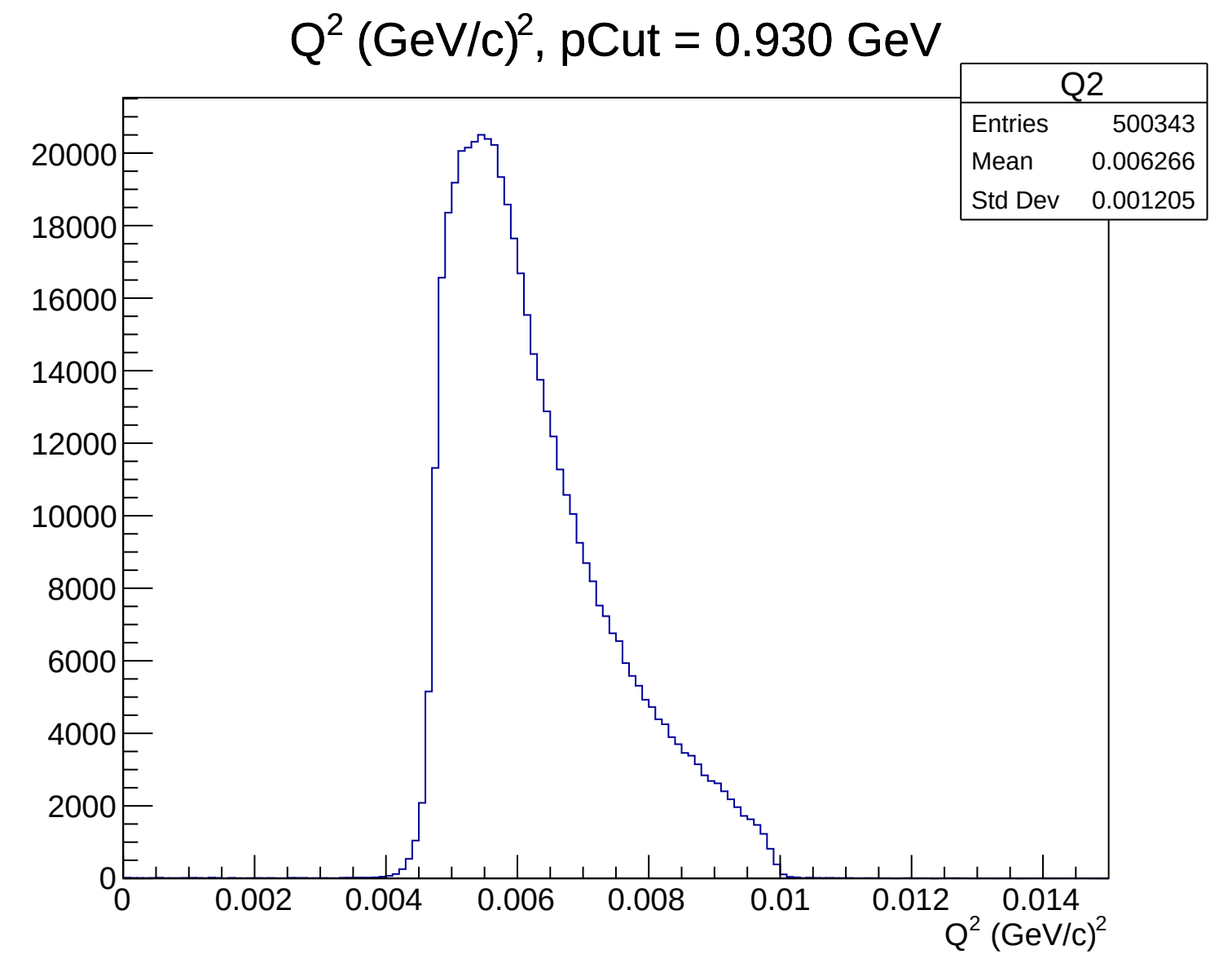
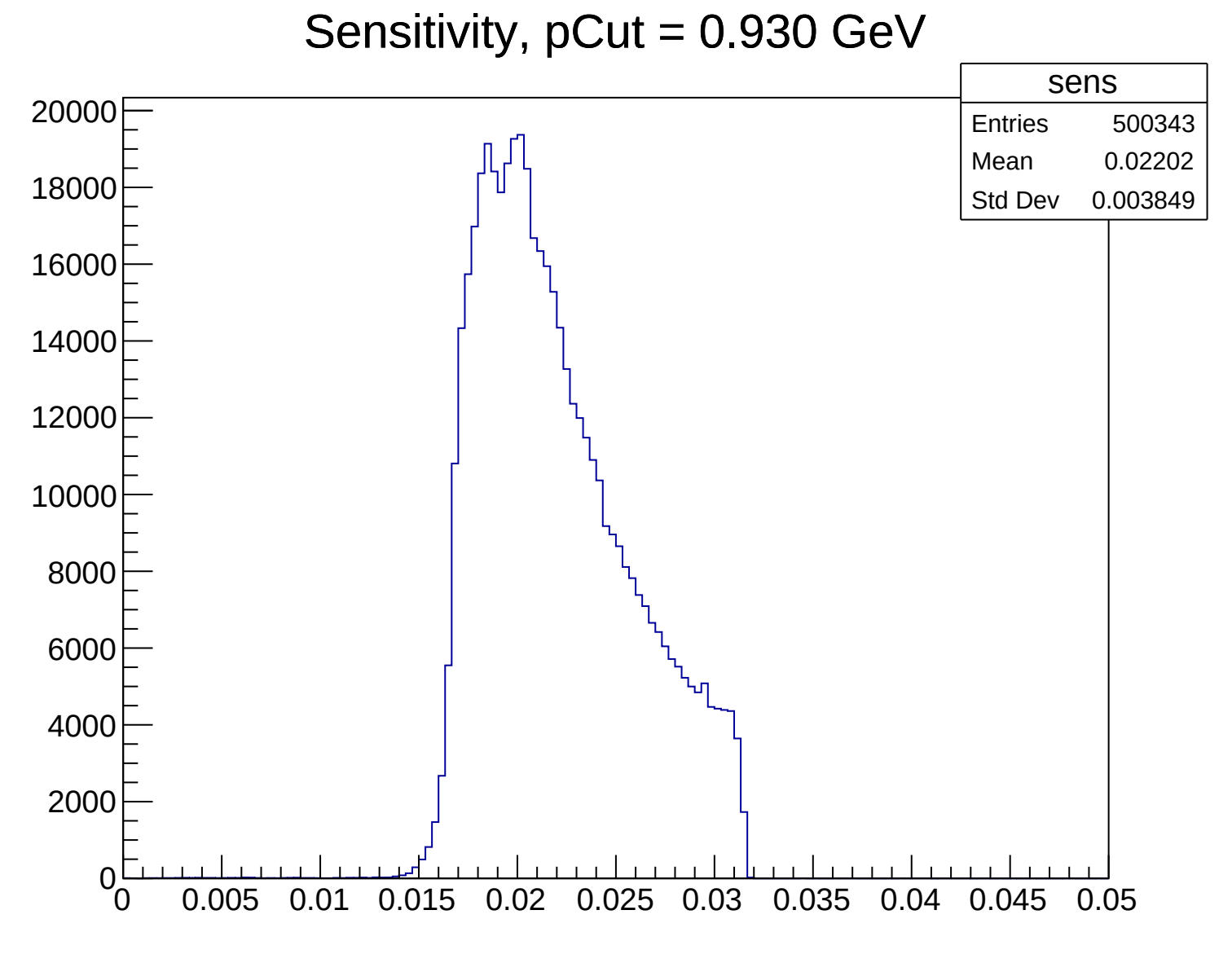

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9300 GeV
R.gold.p (GeV)

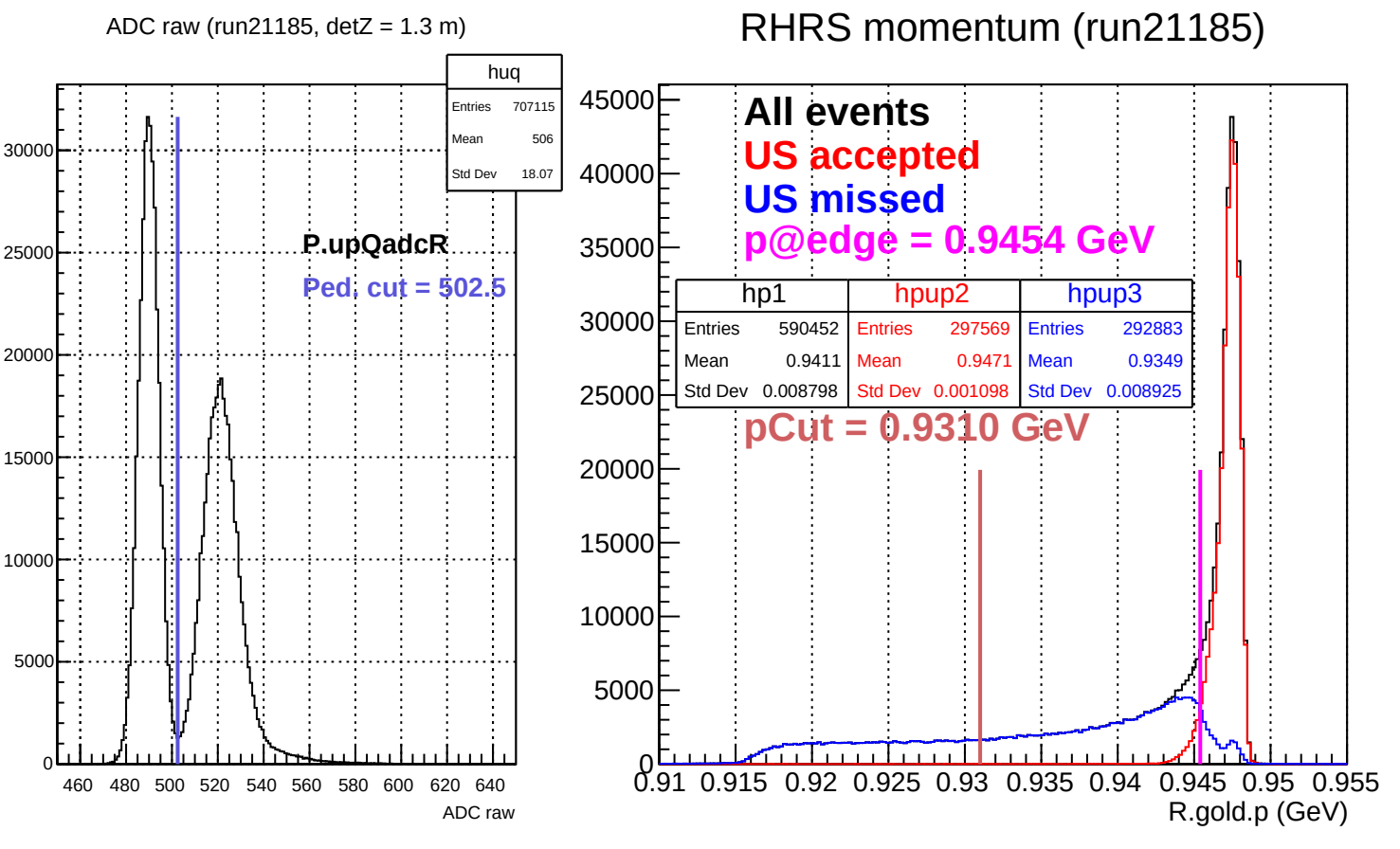

θlab (deg), pCut = 0.930 GeV
Theta
Entries 500343
Mean 4.77
Std Dev 0.4466
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

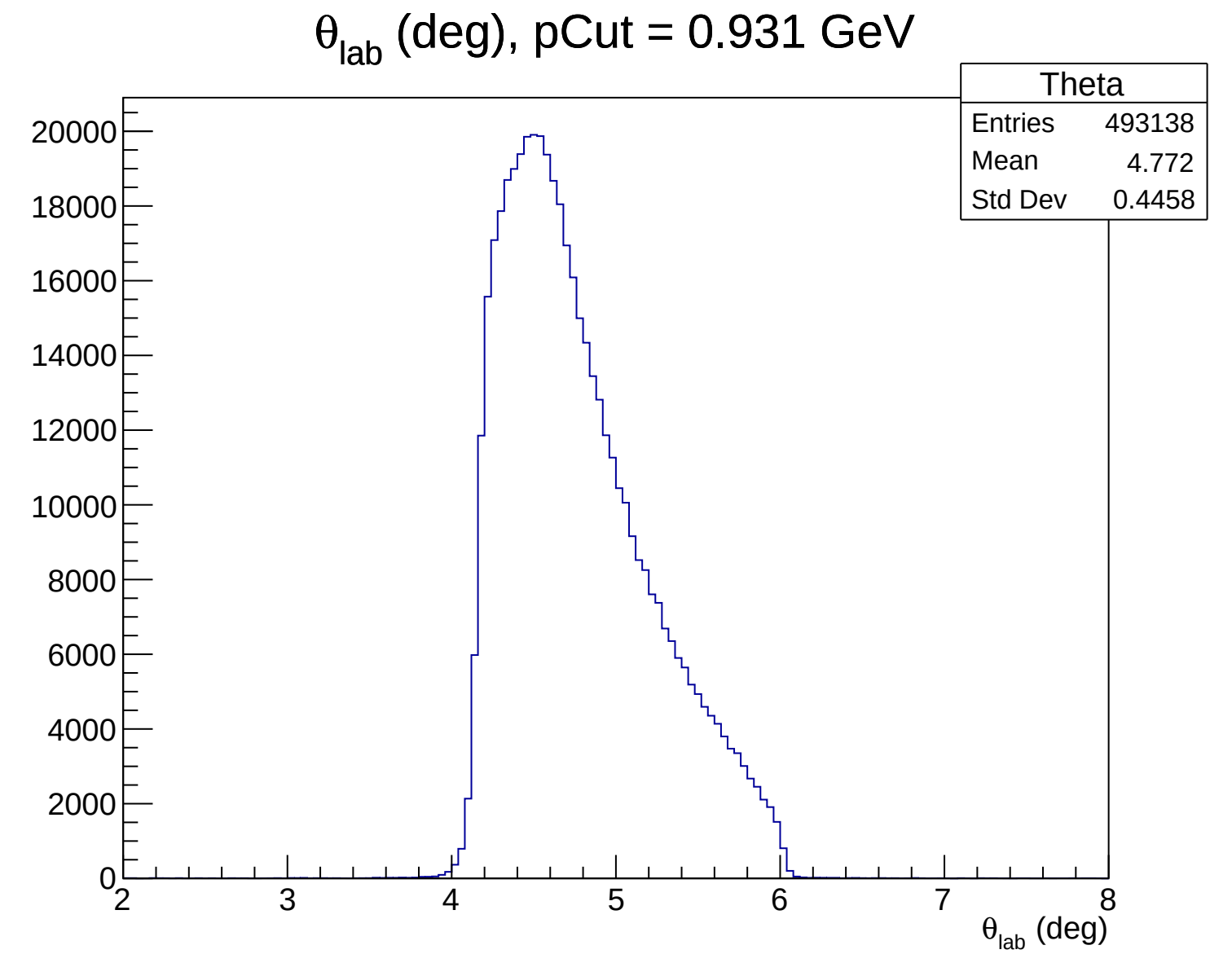

Asymmetry (ppm), pCut = 0.930 GeV
Asym
Entries 500343
Mean 0.5683
Std Dev 0.07271
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

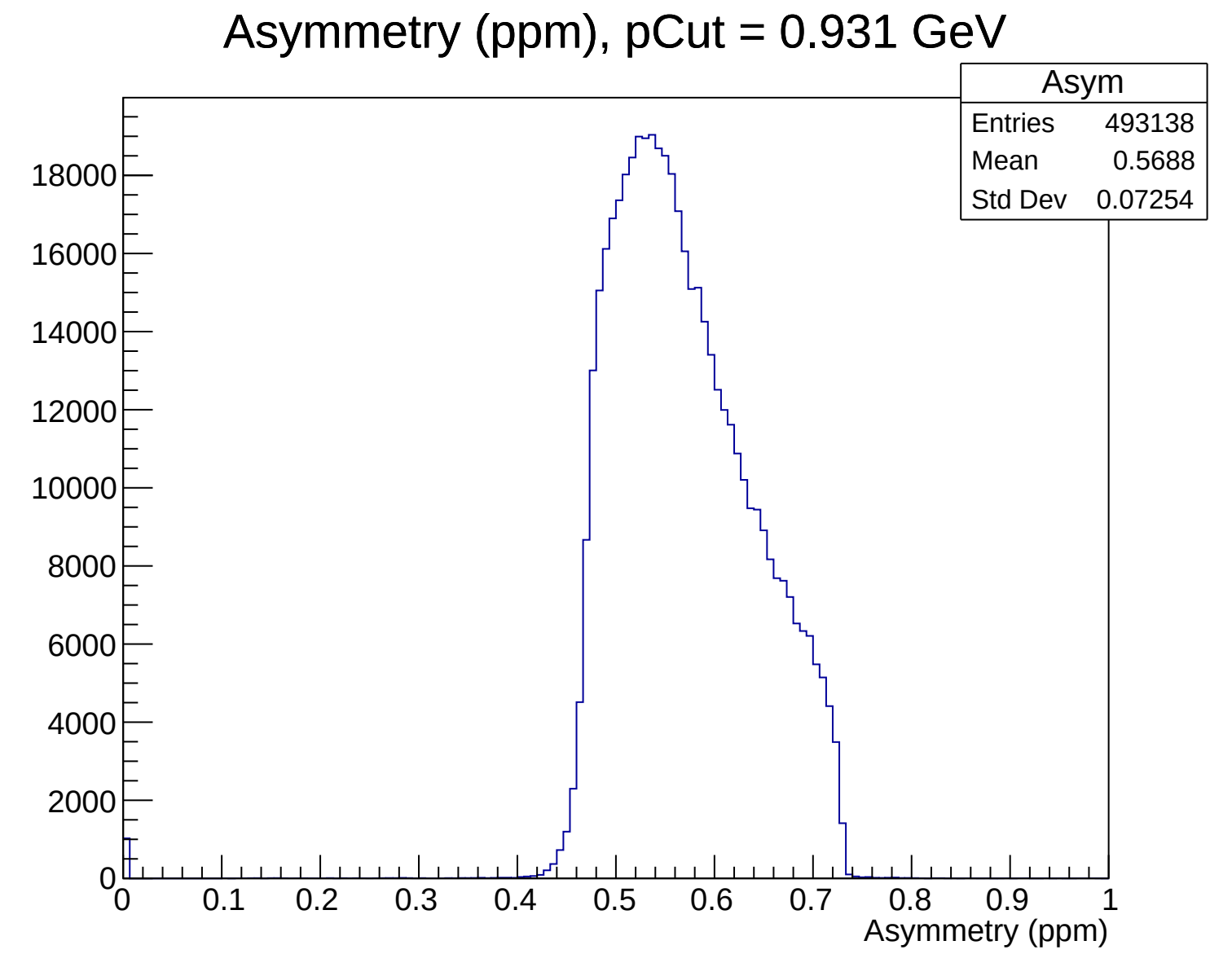

Stretched Asym. (ppm), pCut = 0.930 GeV
SAsym
Entries 500343
Mean 0.5555
Std Dev 0.06899
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

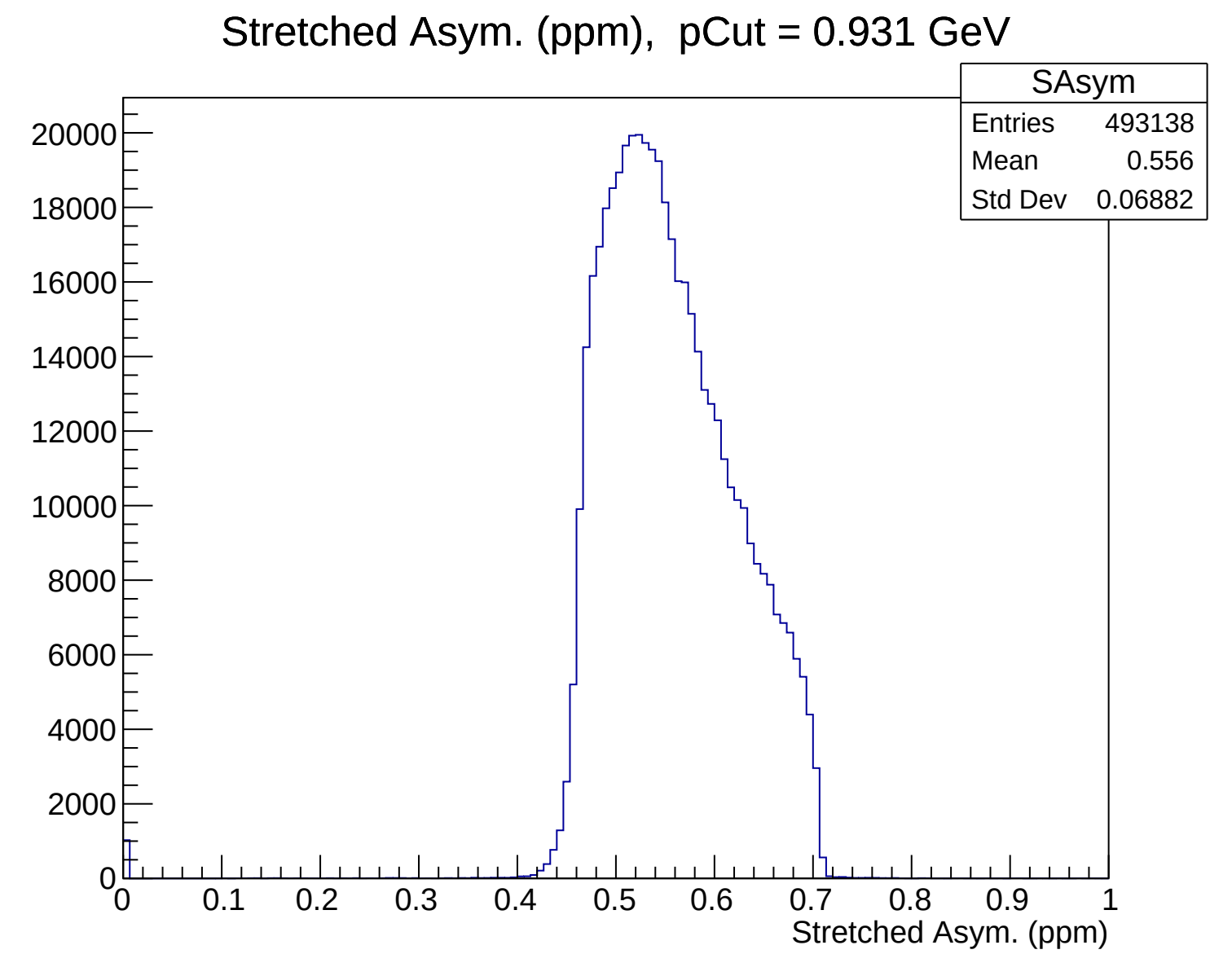

Q^2 (GeV/c)^2, pCut = 0.930 GeV
Q2
Entries 500343
Mean 0.006266
Std Dev 0.001205
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

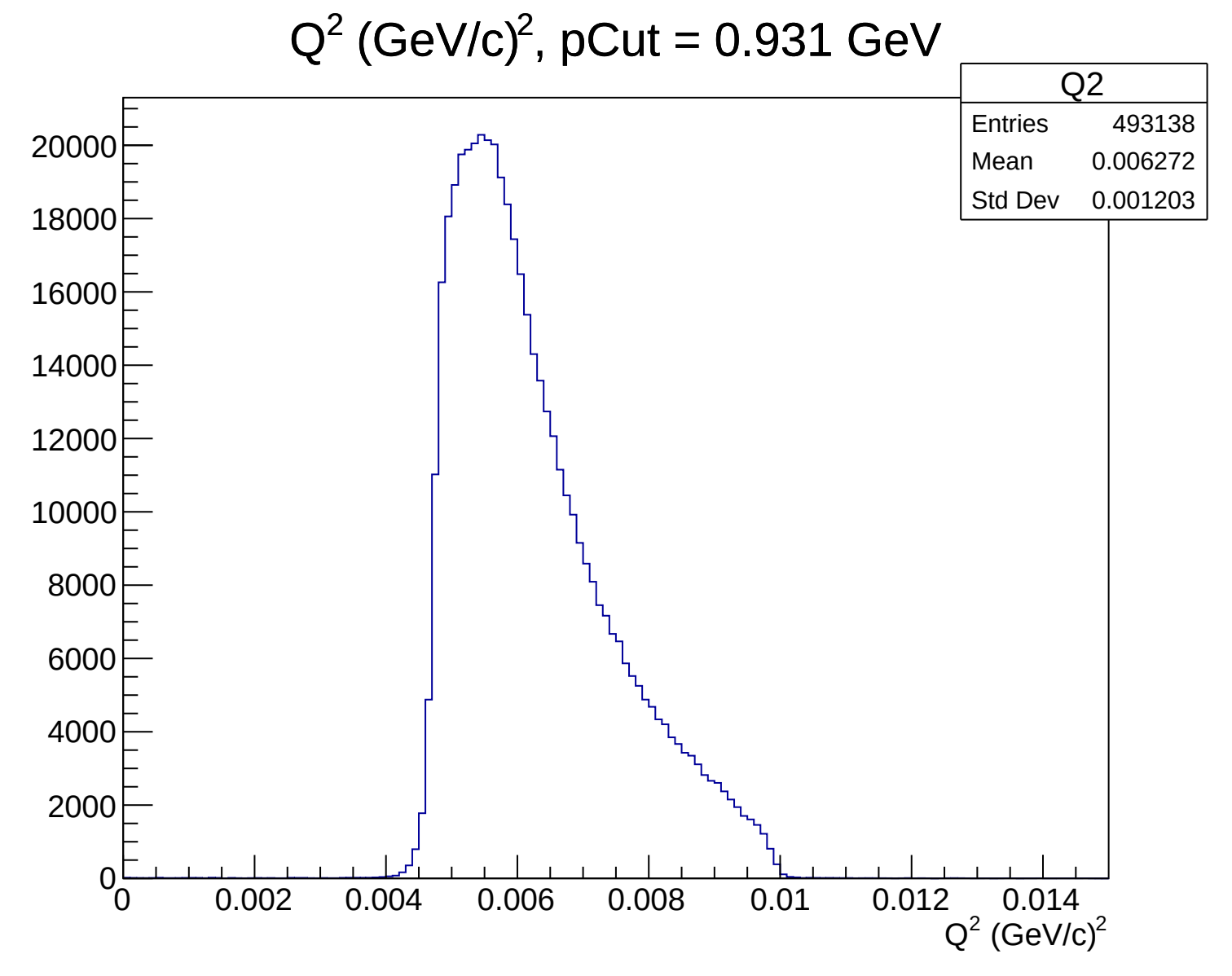

Sensitivity, pCut = 0.930 GeV
sens
Entries 500343
Mean 0.02202
Std Dev 0.003849
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

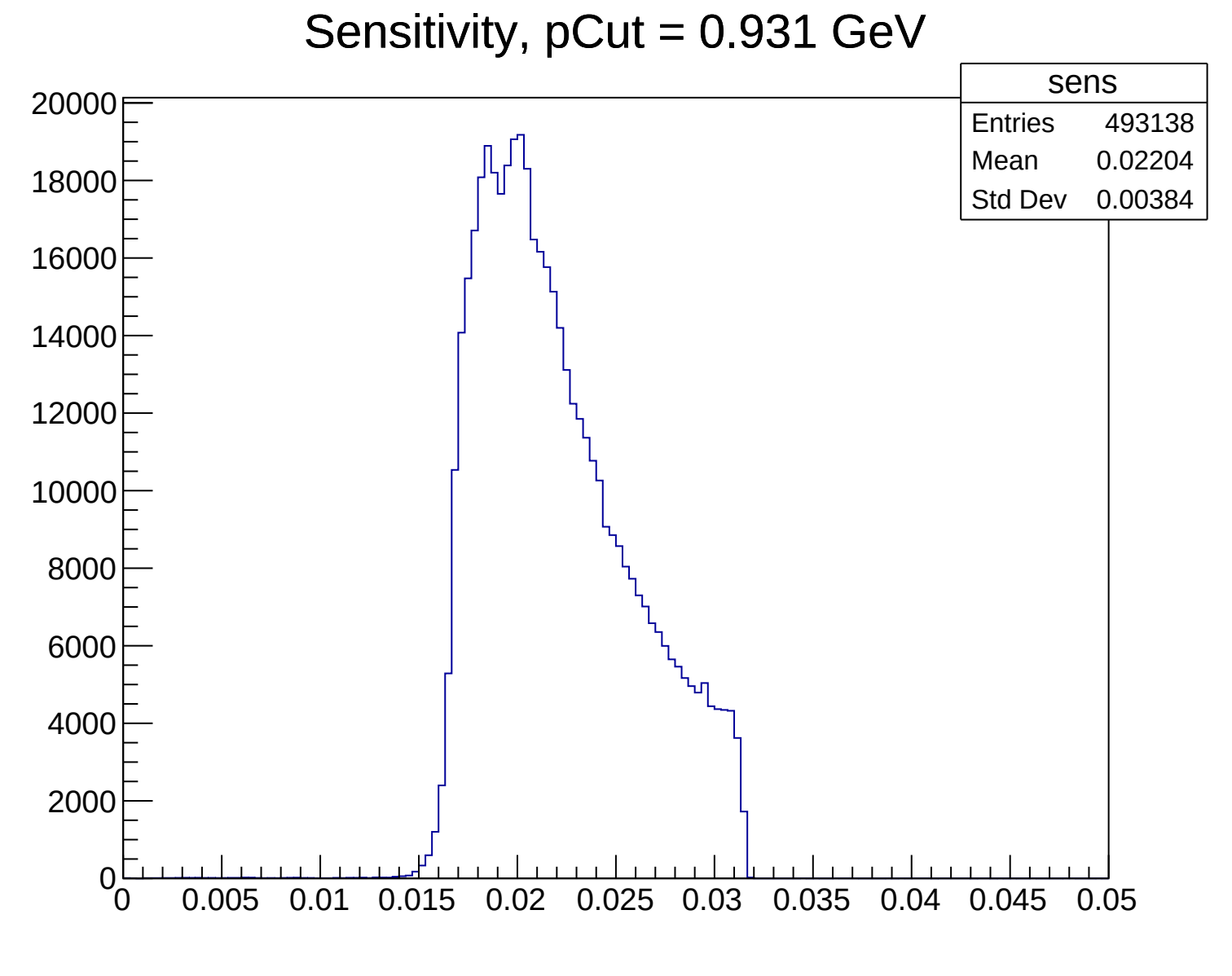

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9310 GeV
R.gold.p (GeV)

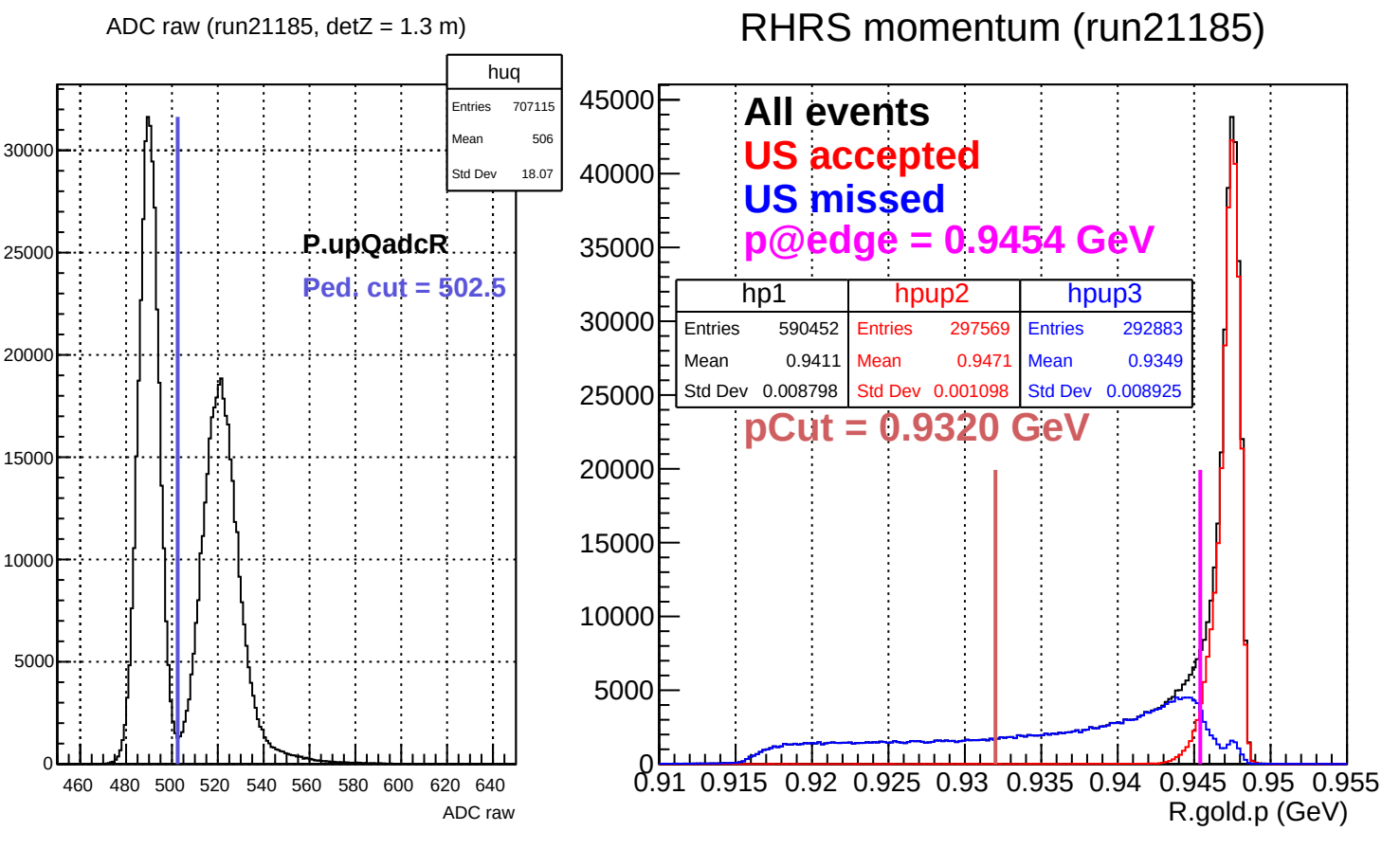

θlab (deg), pCut = 0.931 GeV
Theta
Entries 493138
Mean 4.772
Std Dev 0.4458
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

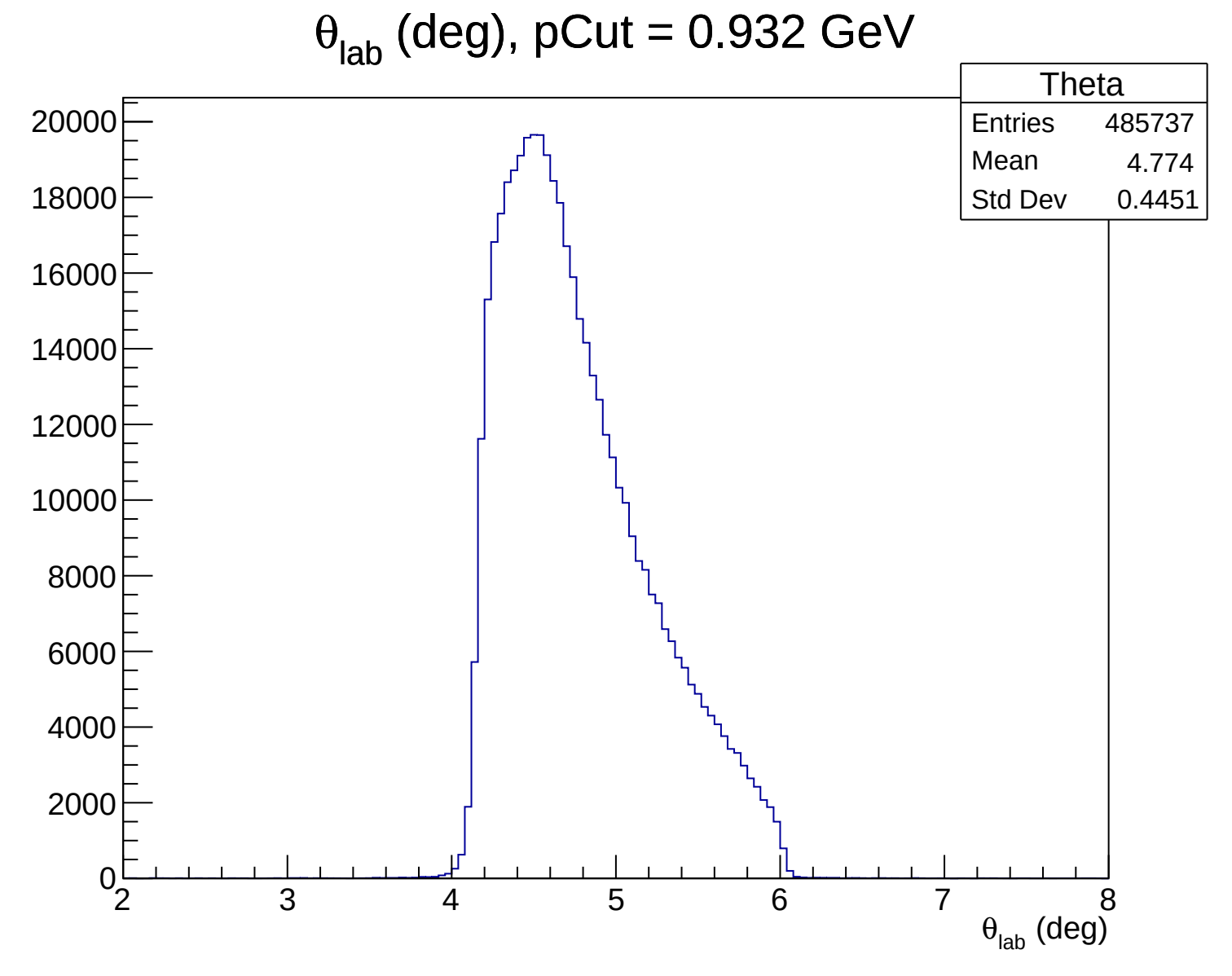

Asymmetry (ppm), pCut = 0.931 GeV
Asym
Entries 493138
Mean 0.5688
Std Dev 0.07254
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

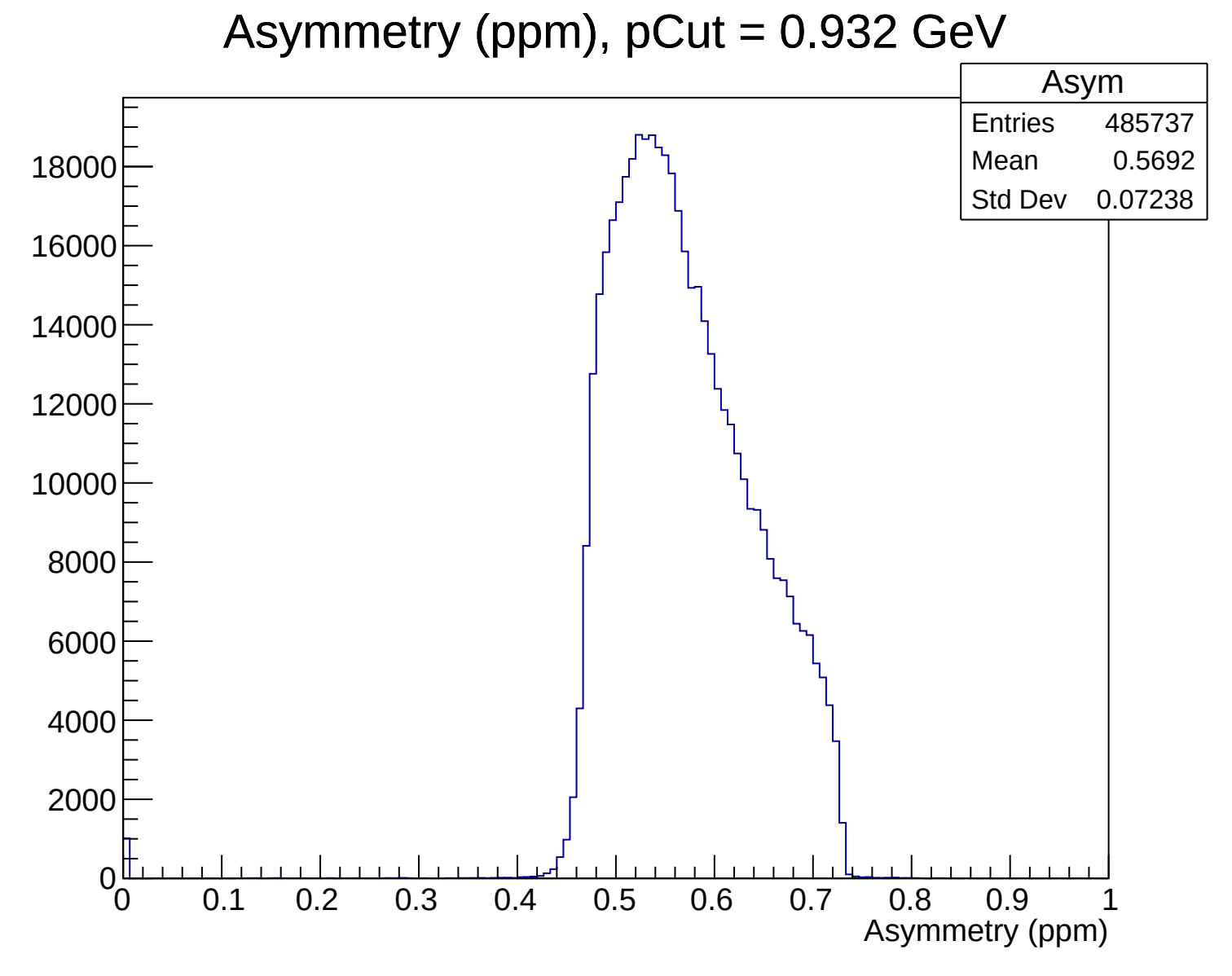

Stretched Asym. (ppm), pCut = 0.931 GeV
SAsym
Entries 493138
Mean 0.556
Std Dev 0.06882
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

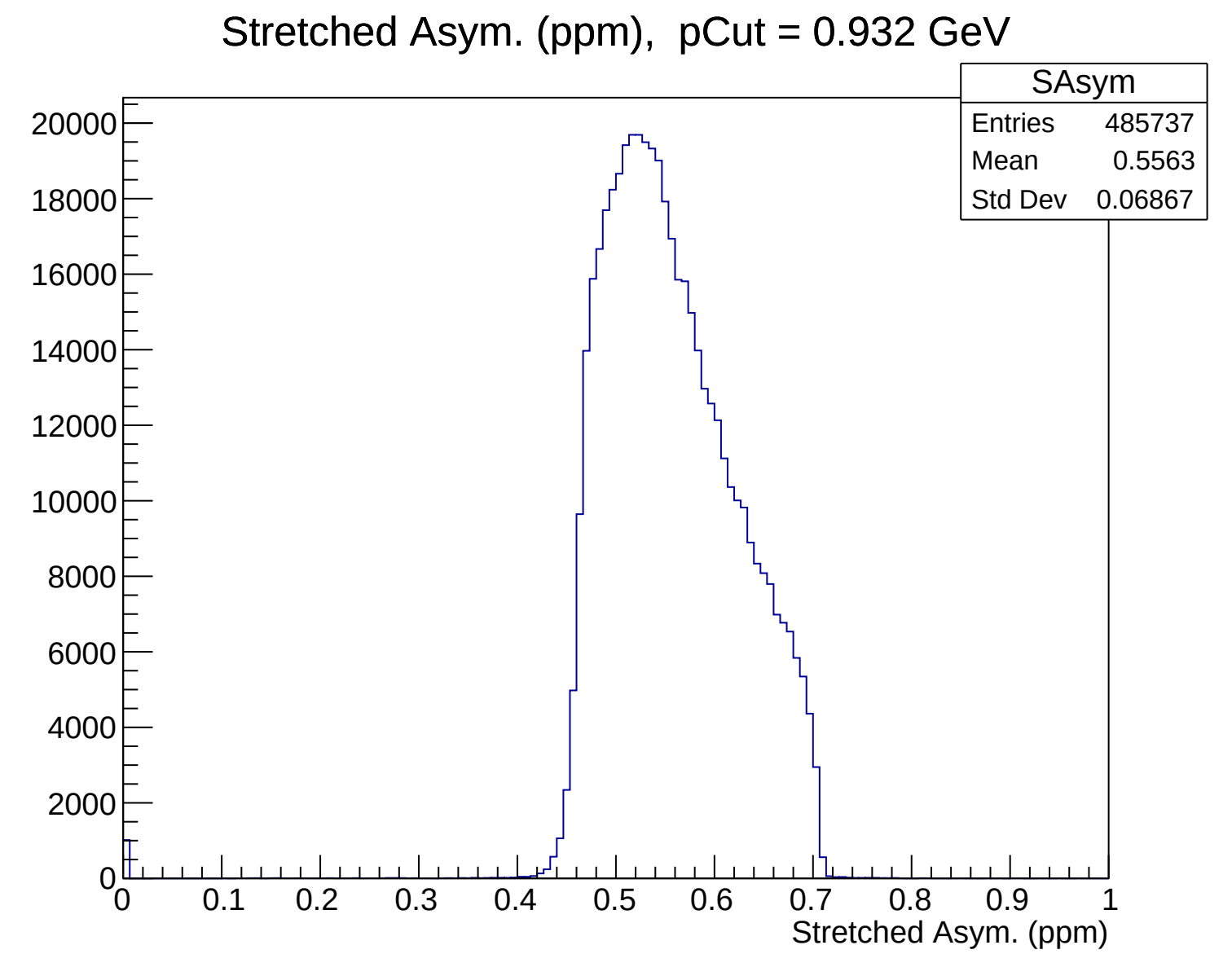

Q^2 (GeV/c)^2, pCut = 0.931 GeV
Q2
Entries 493138
Mean 0.006272
Std Dev 0.001203
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

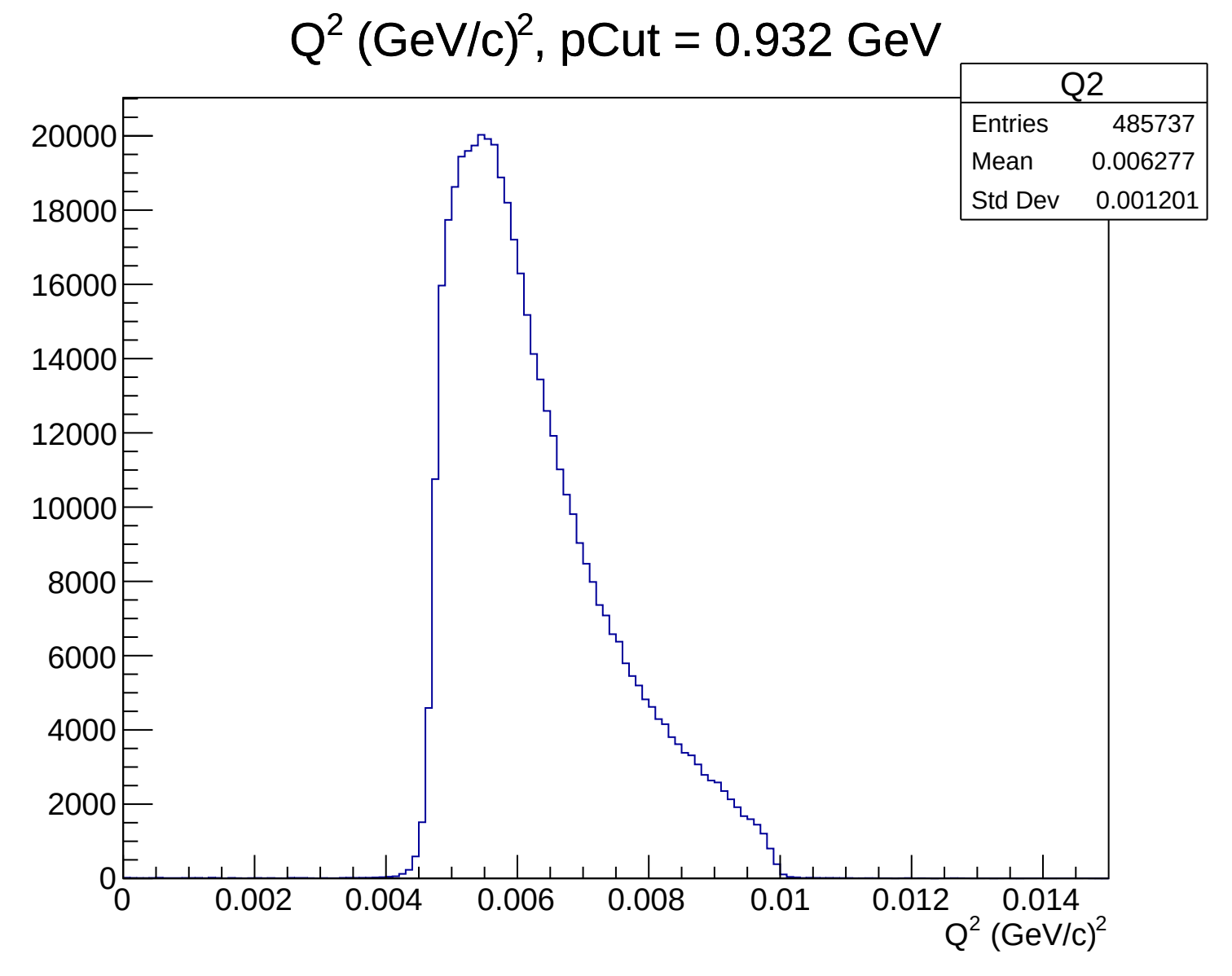

Sensitivity, pCut = 0.931 GeV
sens
Entries 493138
Mean 0.02204
Std Dev 0.00384
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

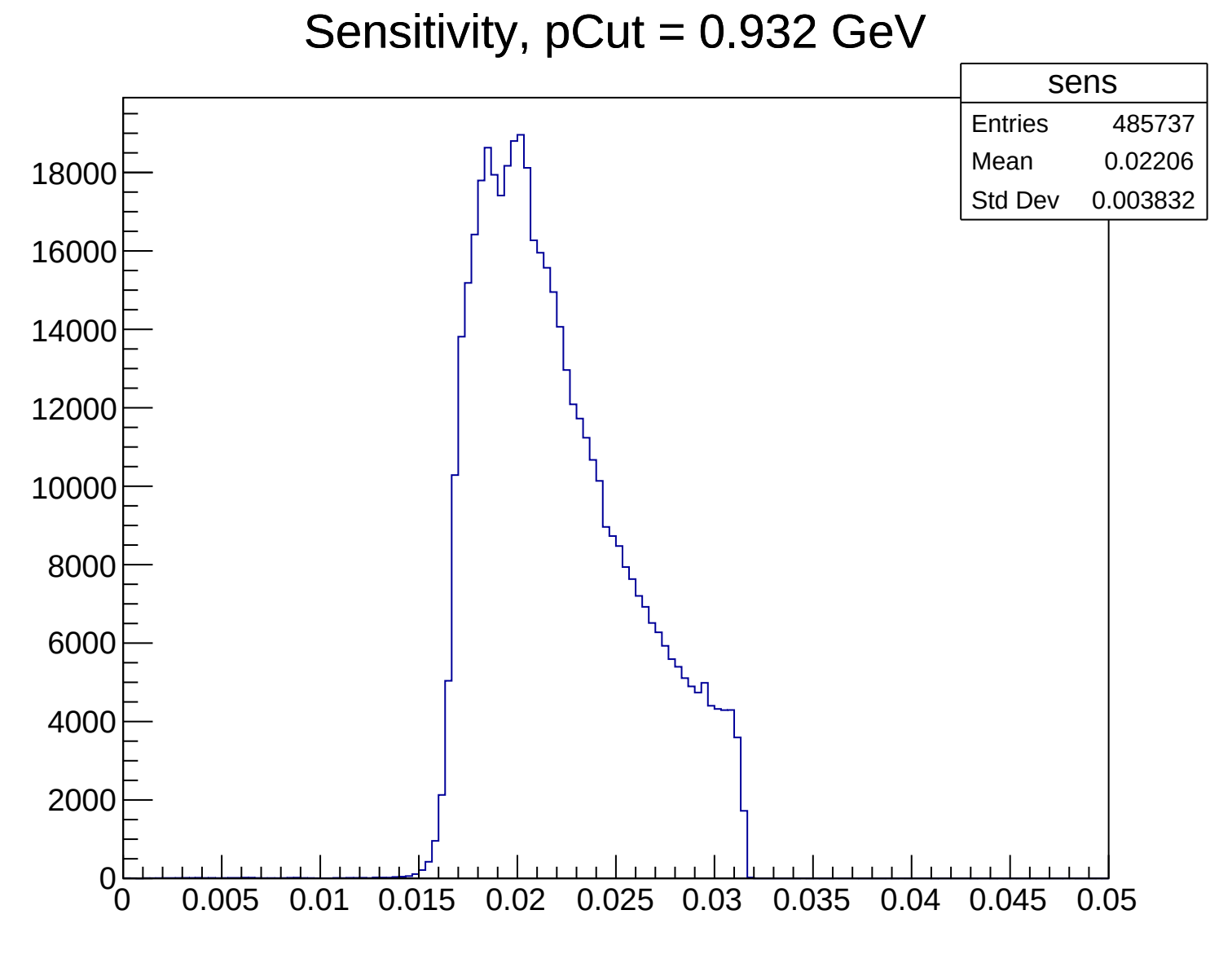

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9320 GeV
R.gold.p (GeV)

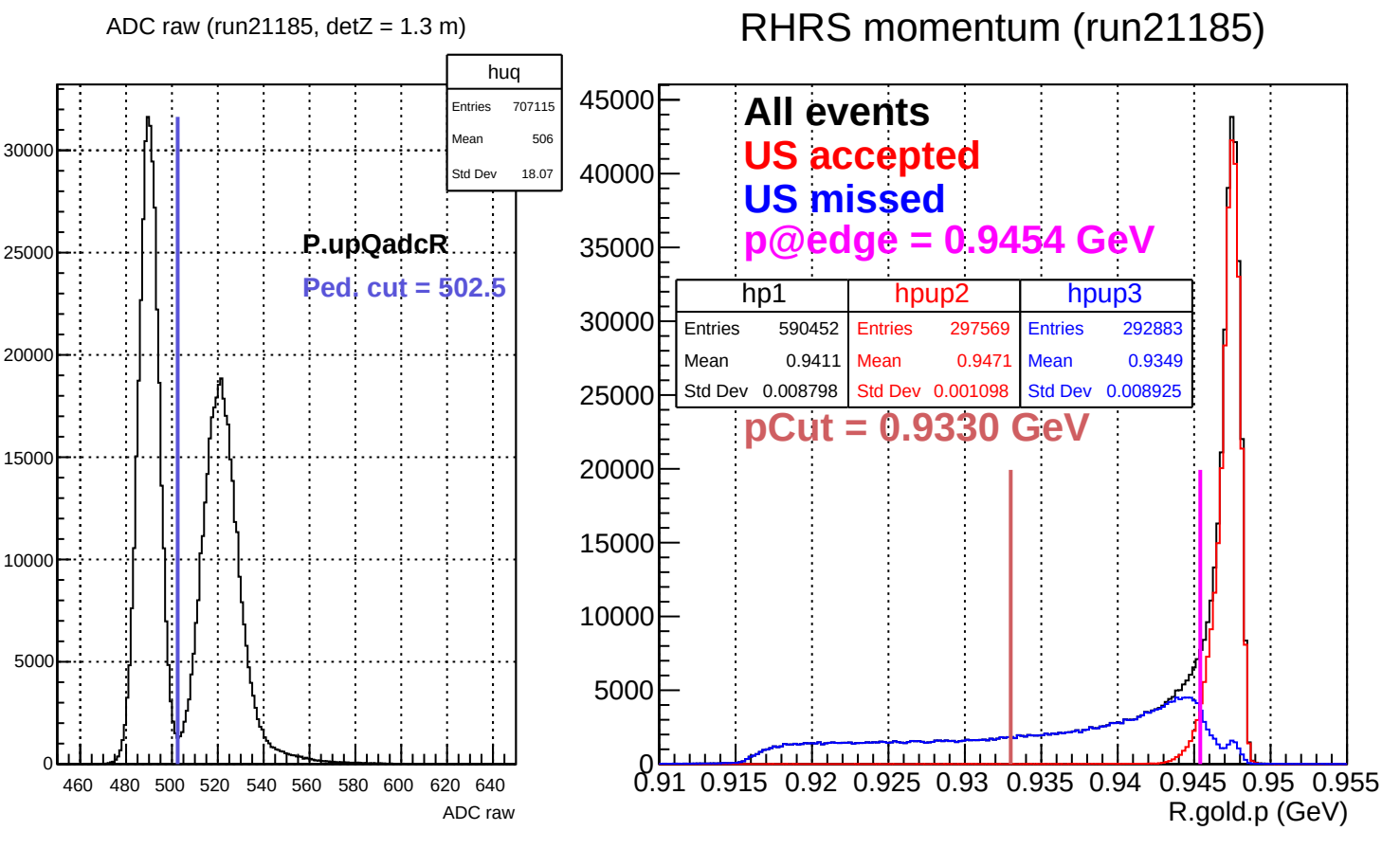

θlab (deg), pCut = 0.932 GeV
Theta
Entries 485737
Mean 4.774
Std Dev 0.4451
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

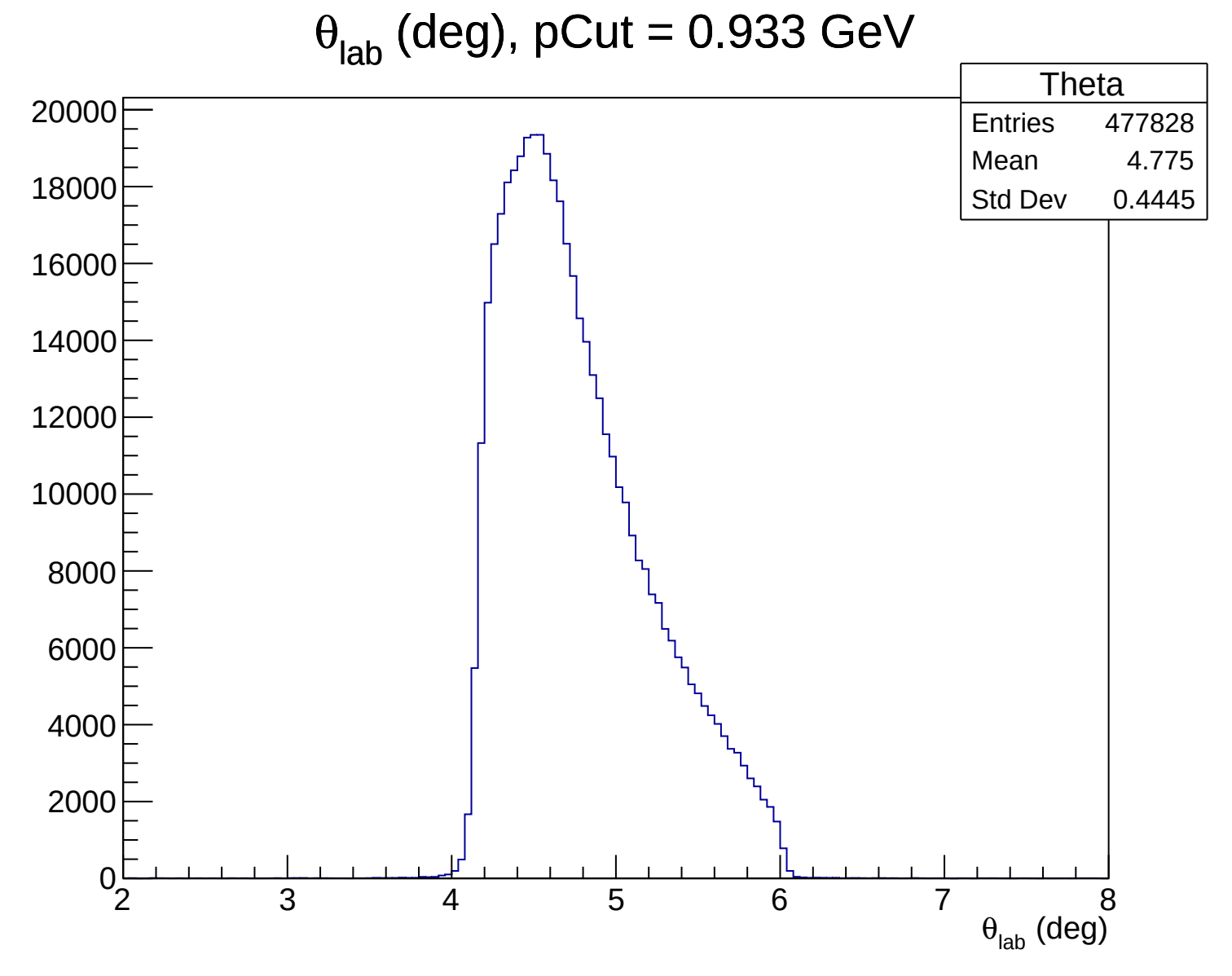

Asymmetry (ppm), pCut = 0.932 GeV
Asym
Entries 485737
Mean 0.5692
Std Dev 0.07238
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

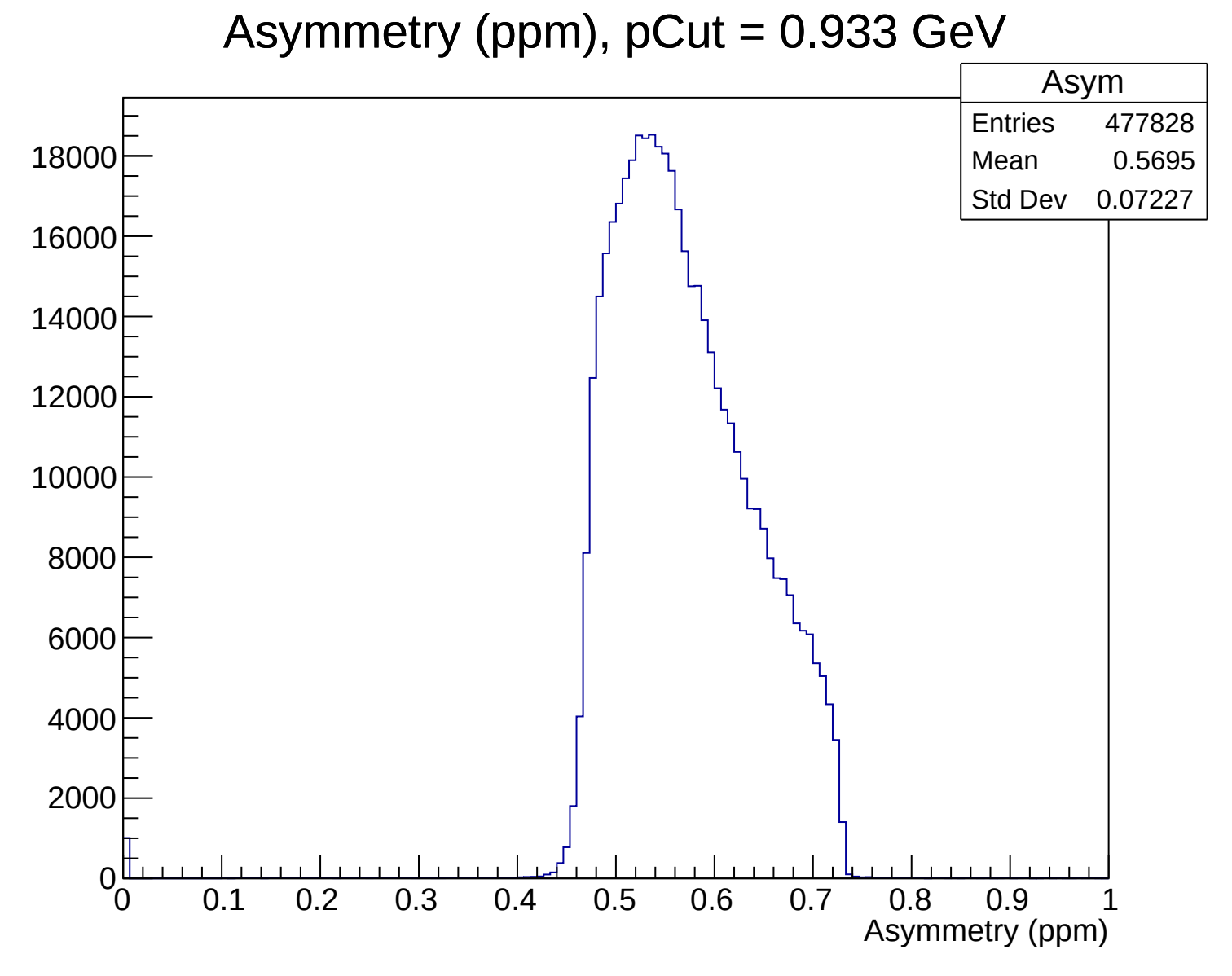

Stretched Asym. (ppm), pCut = 0.932 GeV
SAsym
Entries 485737
Mean 0.5563
Std Dev 0.06867
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

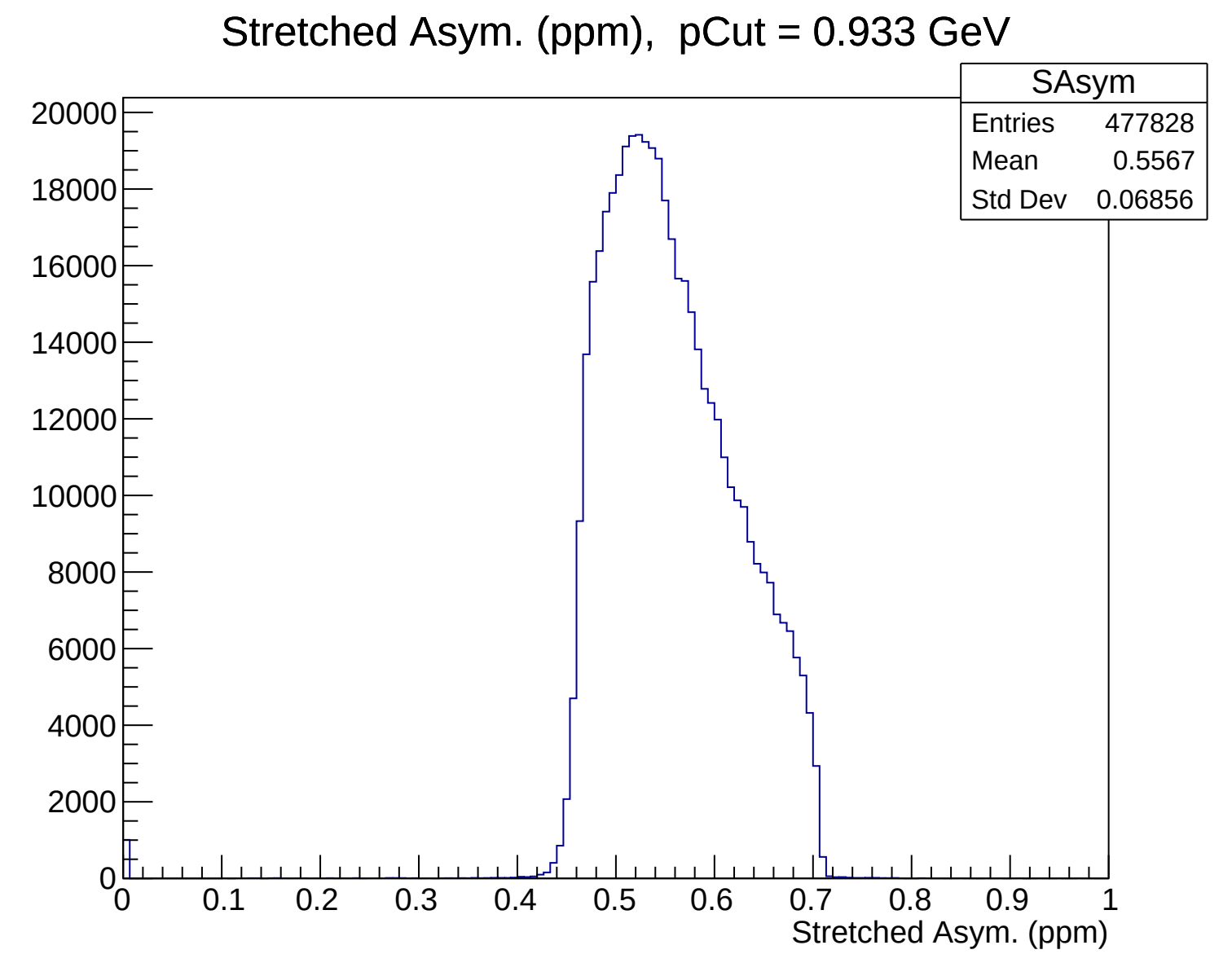

Q^2 (GeV/c)^2, pCut = 0.932 GeV
Q2
Entries 485737
Mean 0.006277
Std Dev 0.001201
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

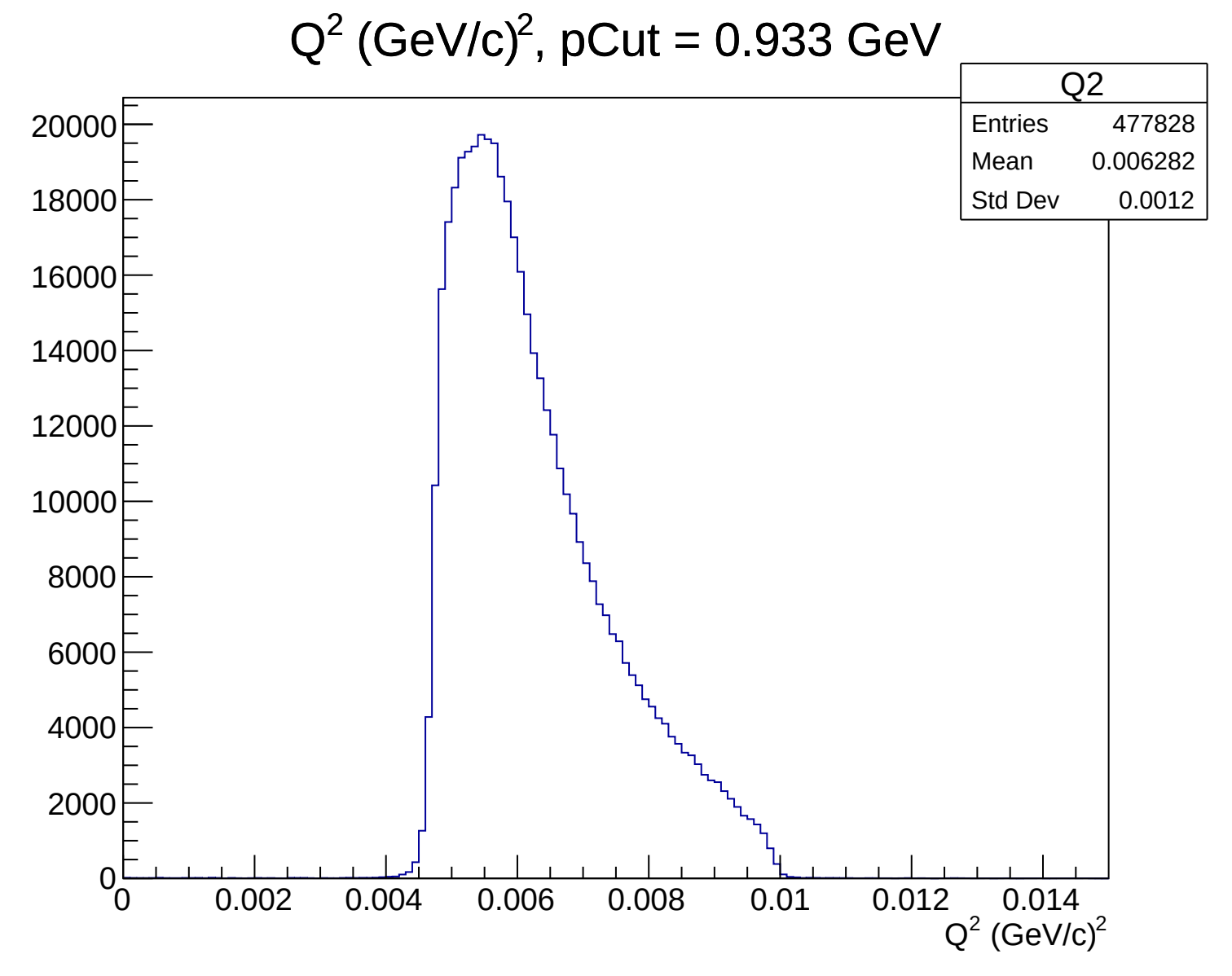

Sensitivity, pCut = 0.932 GeV
sens
Entries 485737
Mean 0.02206
Std Dev 0.003832
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

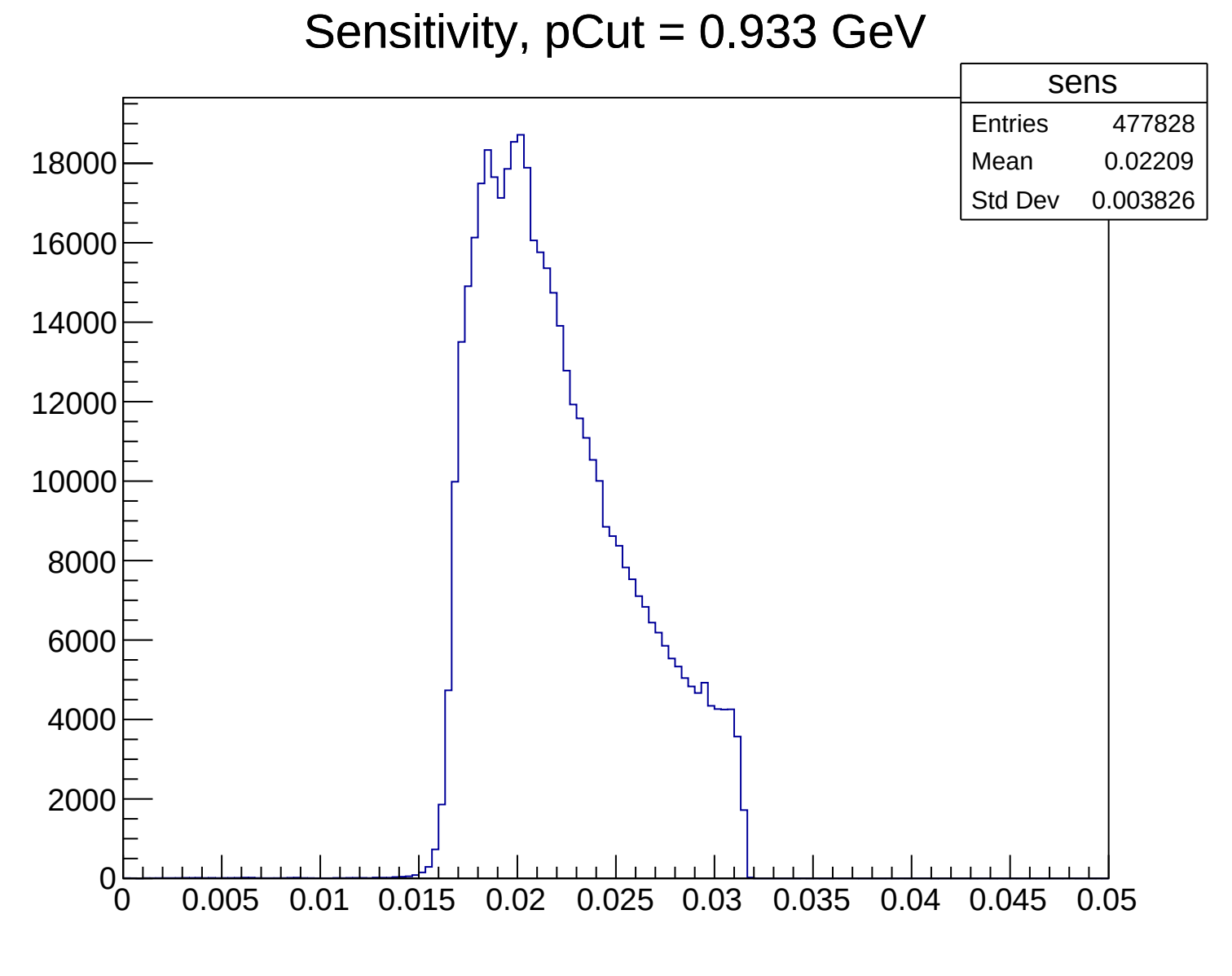

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9330 GeV
R.gold.p (GeV)

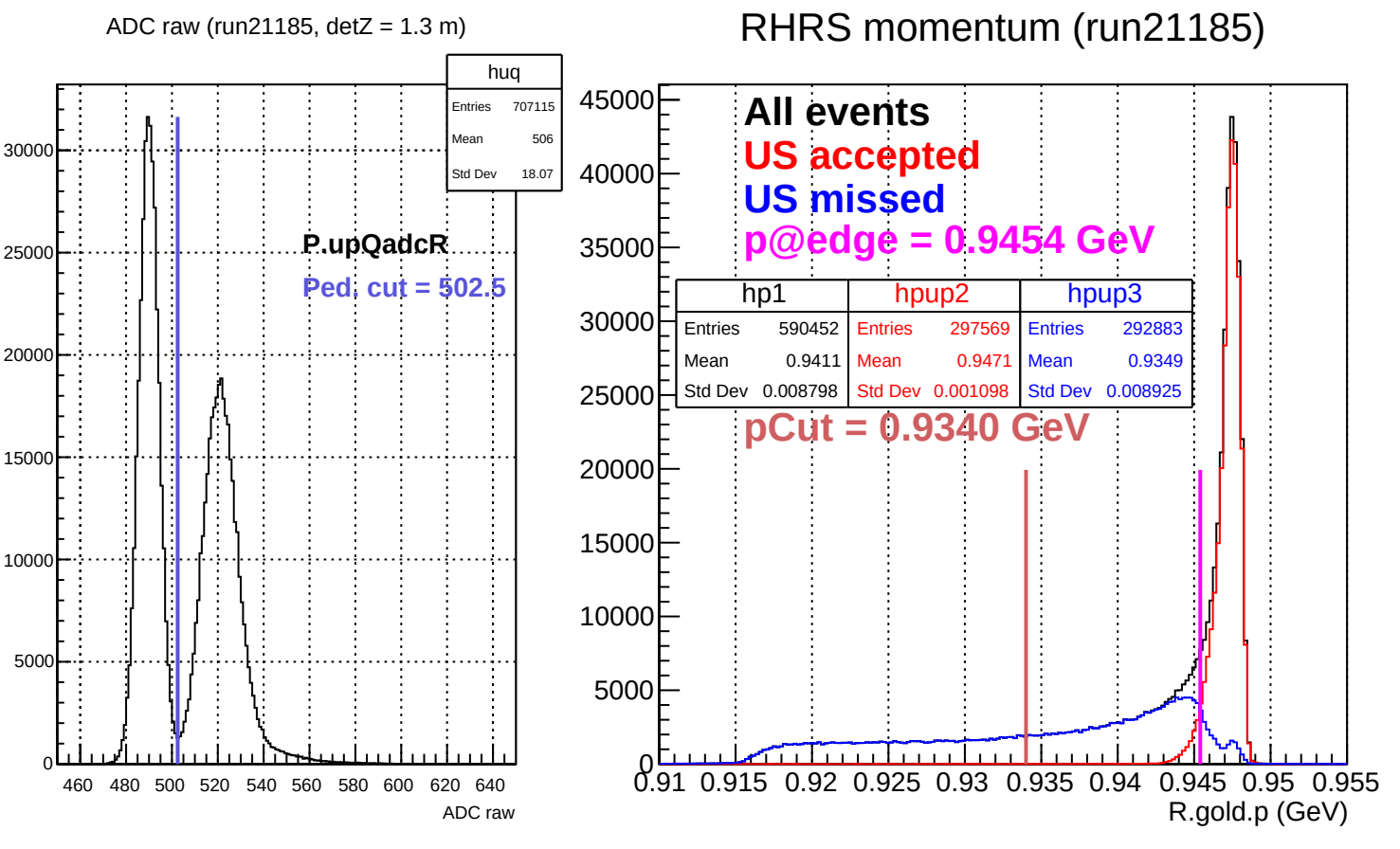

θlab (deg), pCut = 0.933 GeV
Theta
Entries 477828
Mean 4.775
Std Dev 0.4445
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

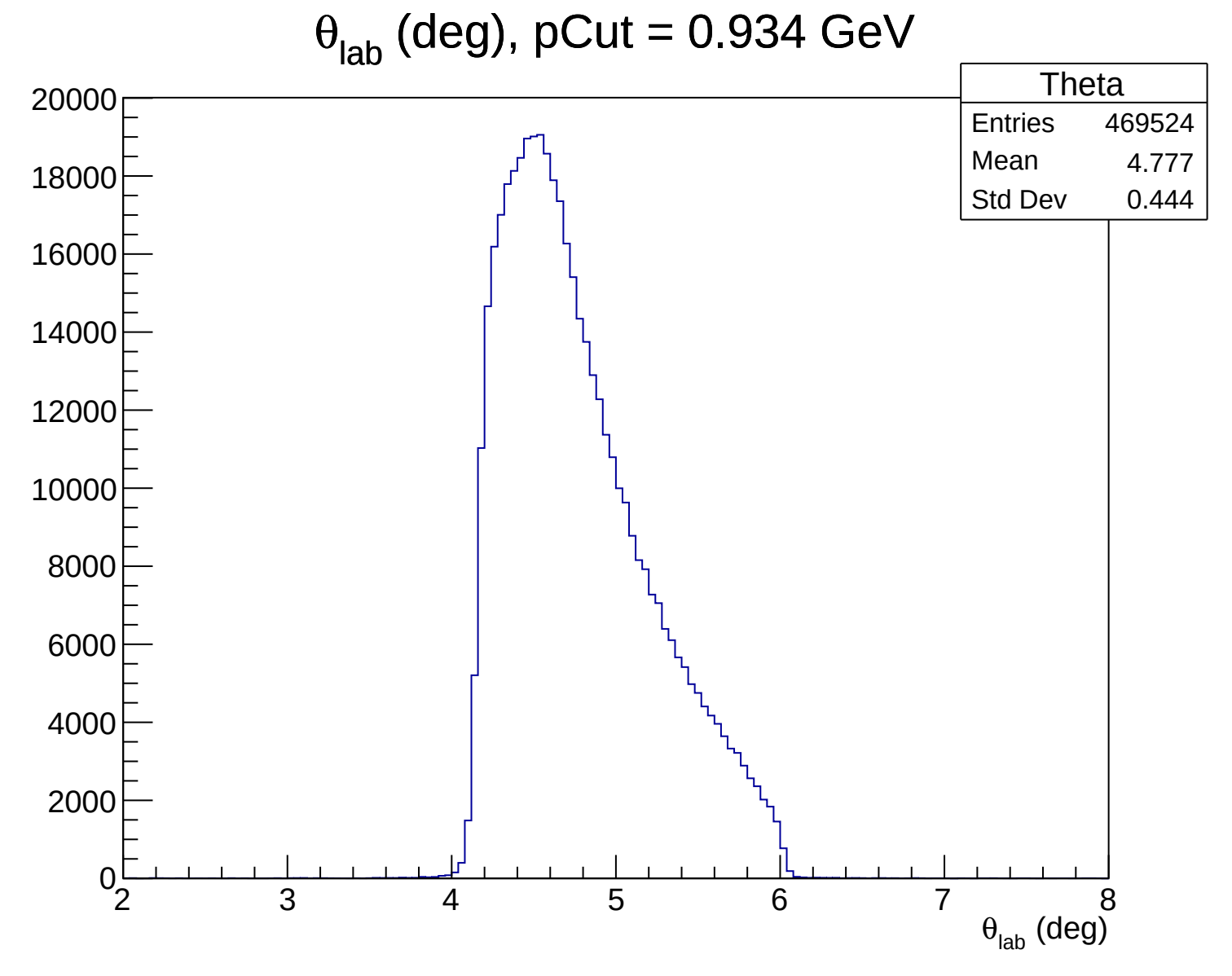

Asymmetry (ppm), pCut = 0.933 GeV
Asym
Entries 477828
Mean 0.5695
Std Dev 0.07227
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

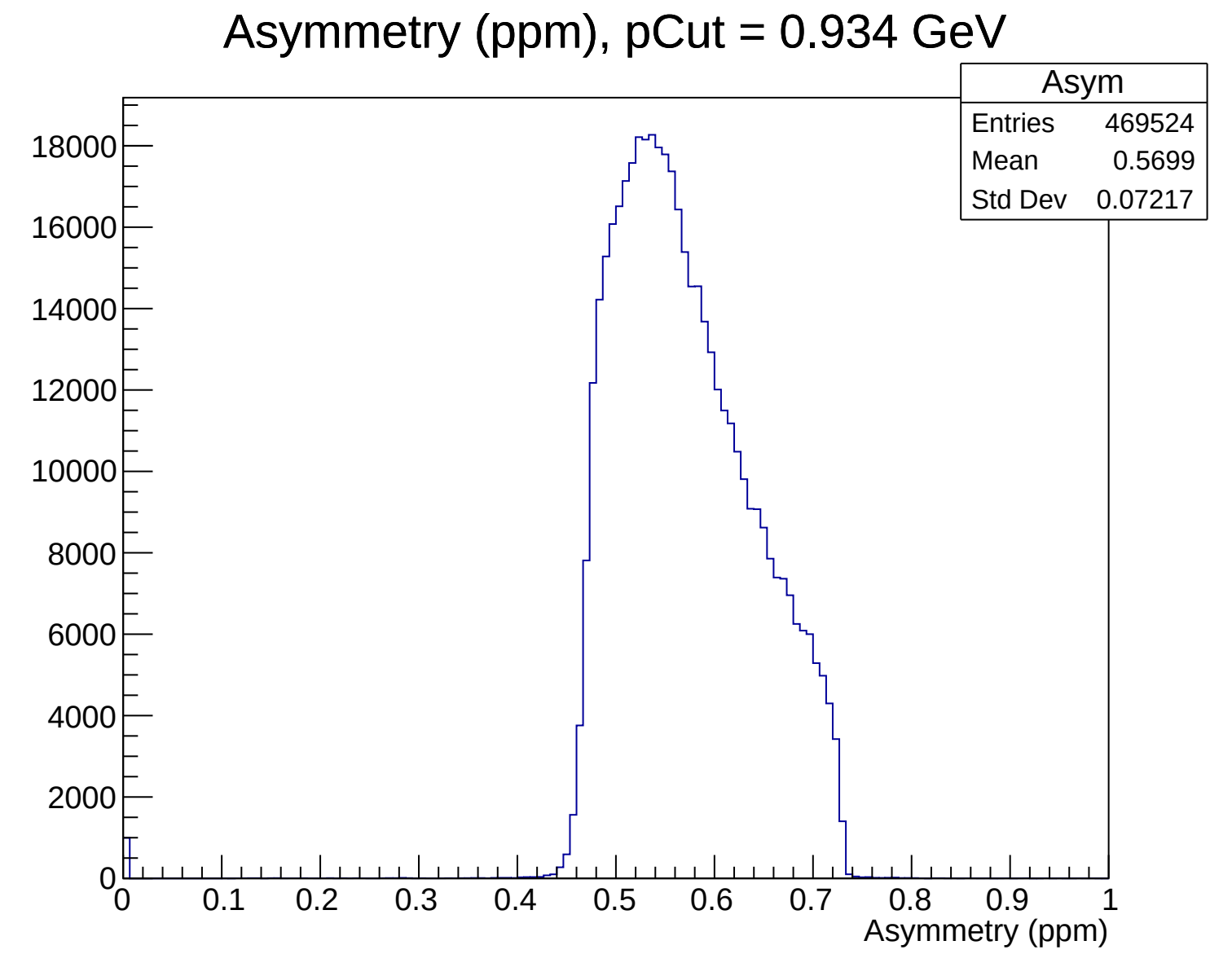

Stretched Asym. (ppm), pCut = 0.933 GeV
SAsym
Entries 477828
Mean 0.5567
Std Dev 0.06856
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

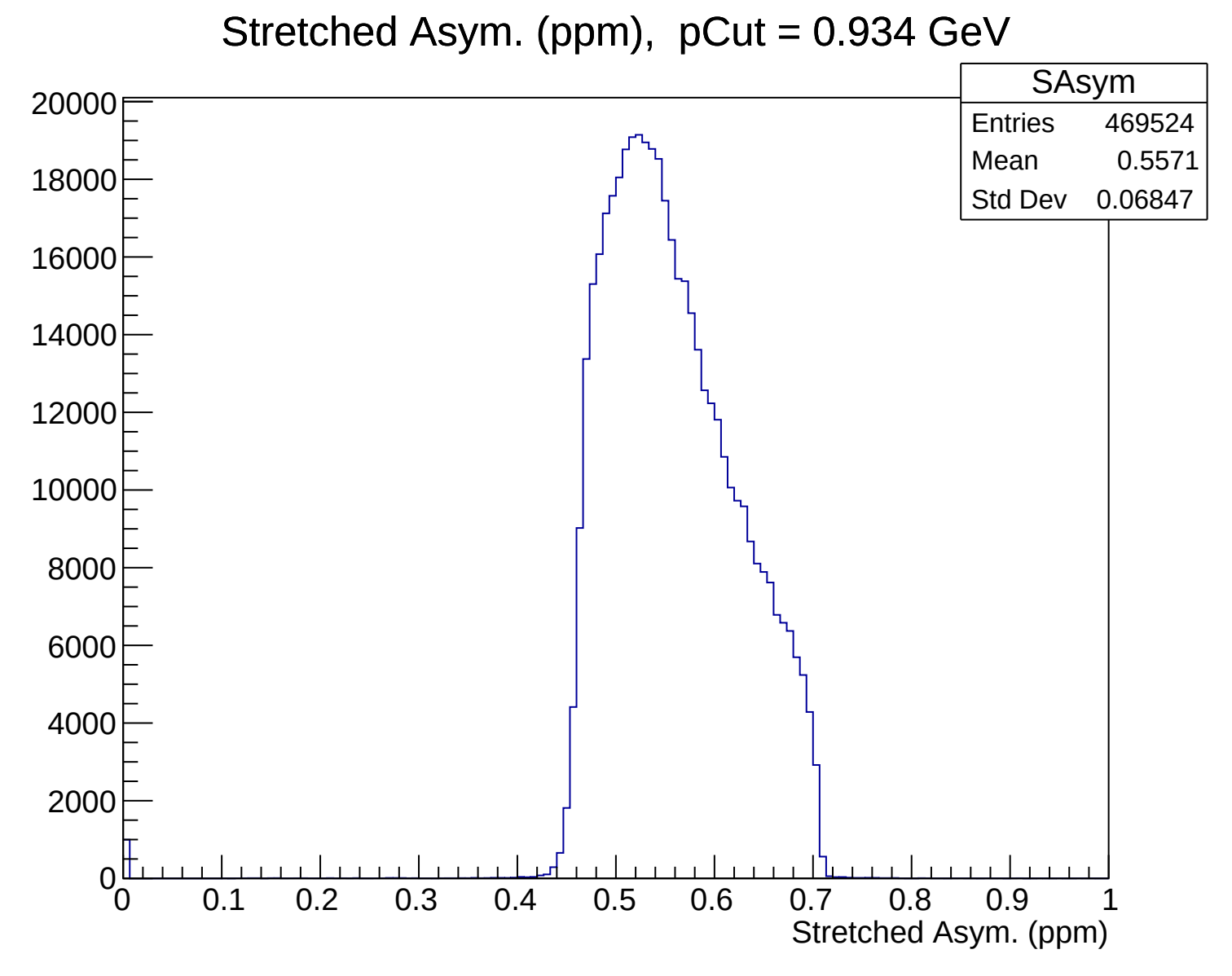

Q^2 (GeV/c)^2, pCut = 0.933 GeV
Q2
Entries 477828
Mean 0.006282
Std Dev 0.0012
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

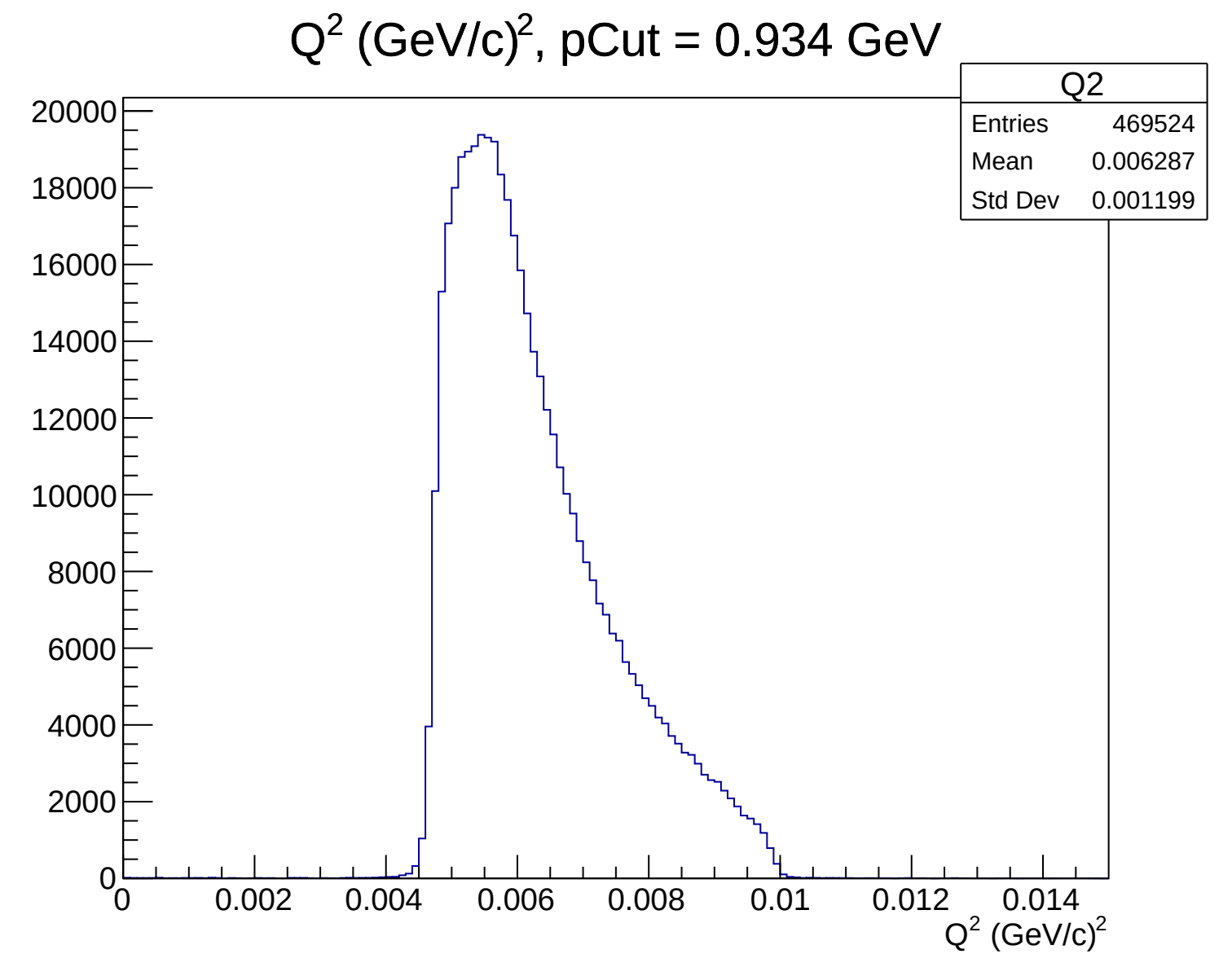

Sensitivity, pCut = 0.933 GeV
sens
Entries 477828
Mean 0.02209
Std Dev 0.003826
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

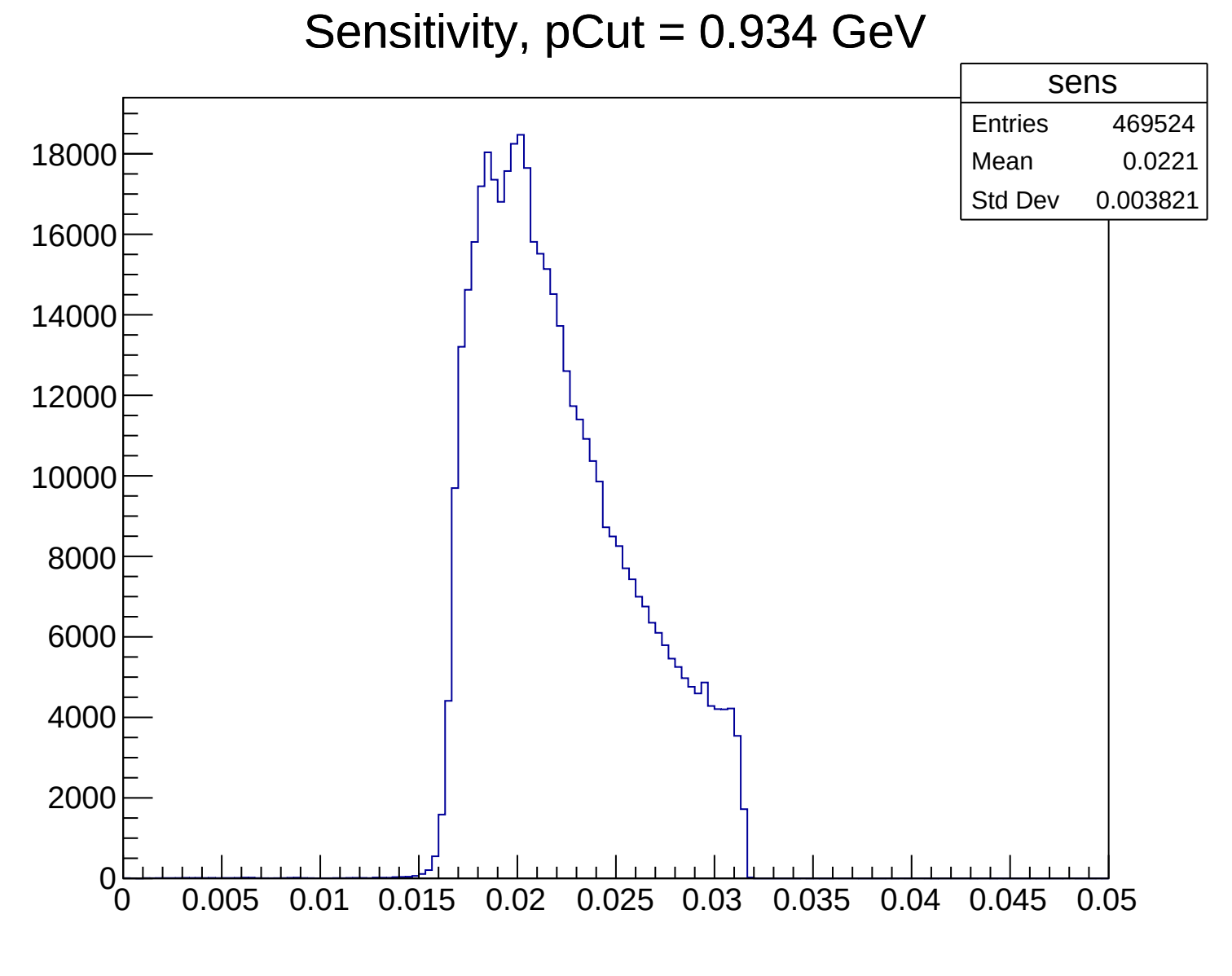

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9340 GeV
R.gold.p (GeV)

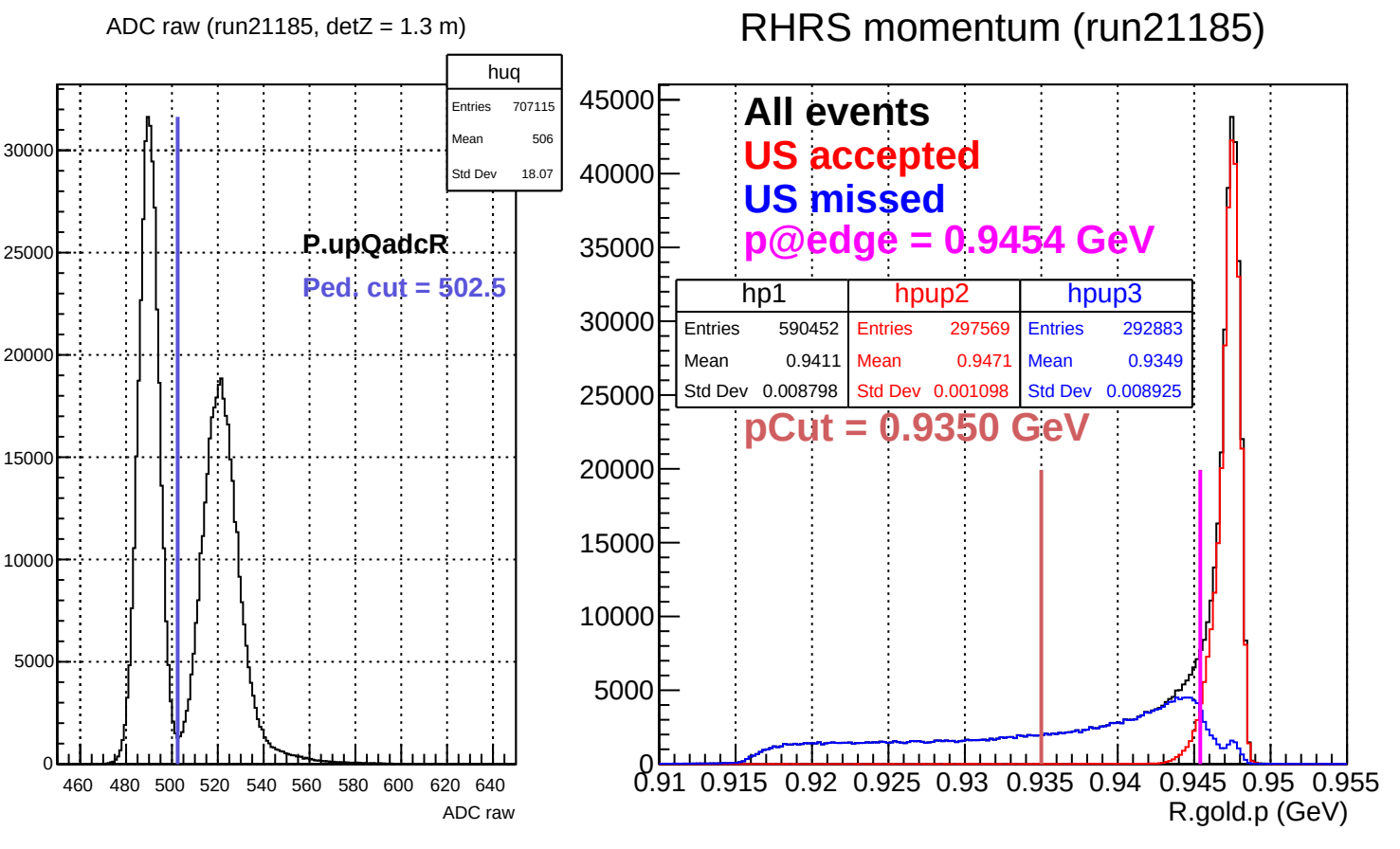

θlab (deg), pCut = 0.934 GeV
Theta
Entries 469524
Mean 4.777
Std Dev 0.444
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

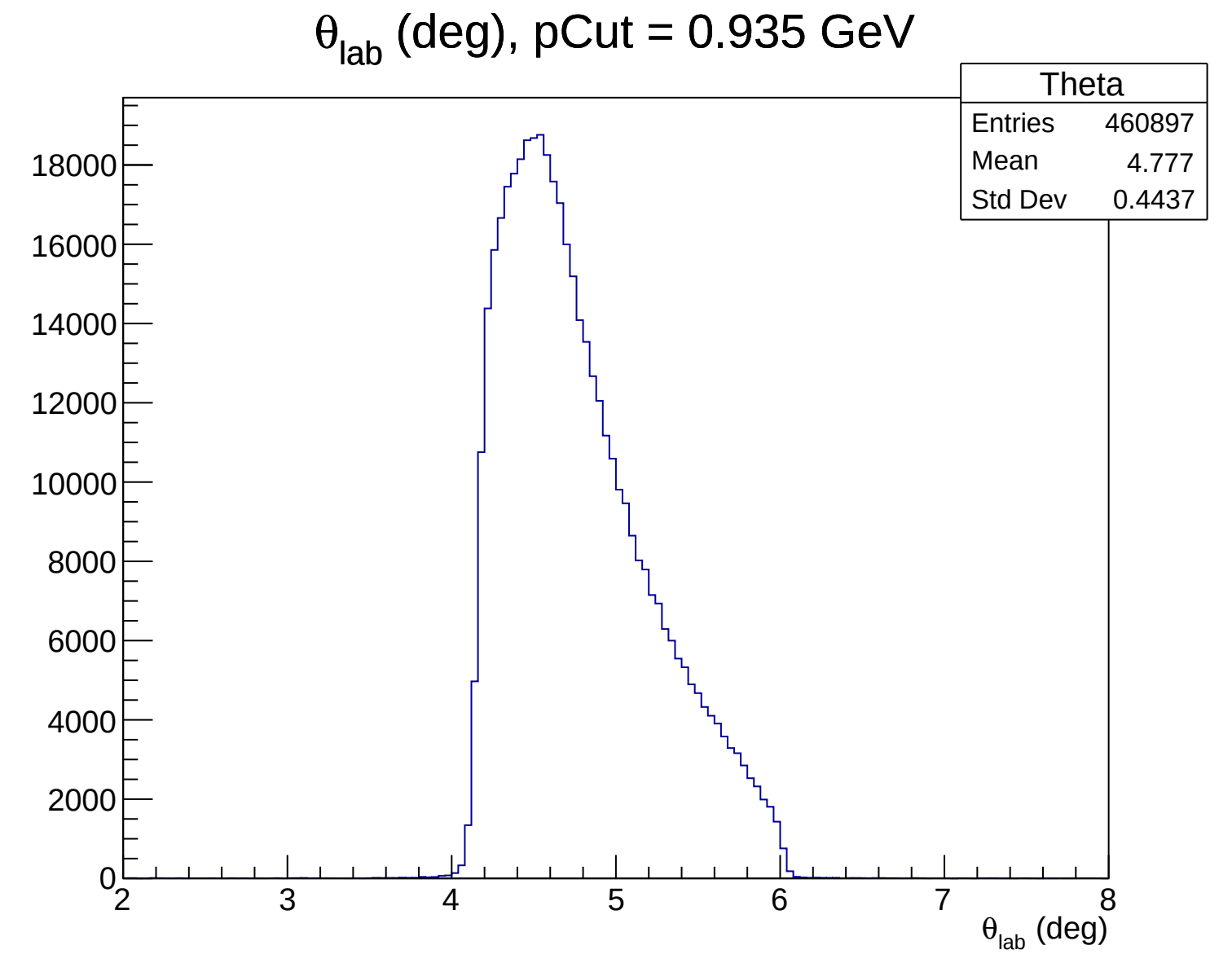

Asymmetry (ppm), pCut = 0.934 GeV
Asym
Entries 469524
Mean 0.5699
Std Dev 0.07217
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

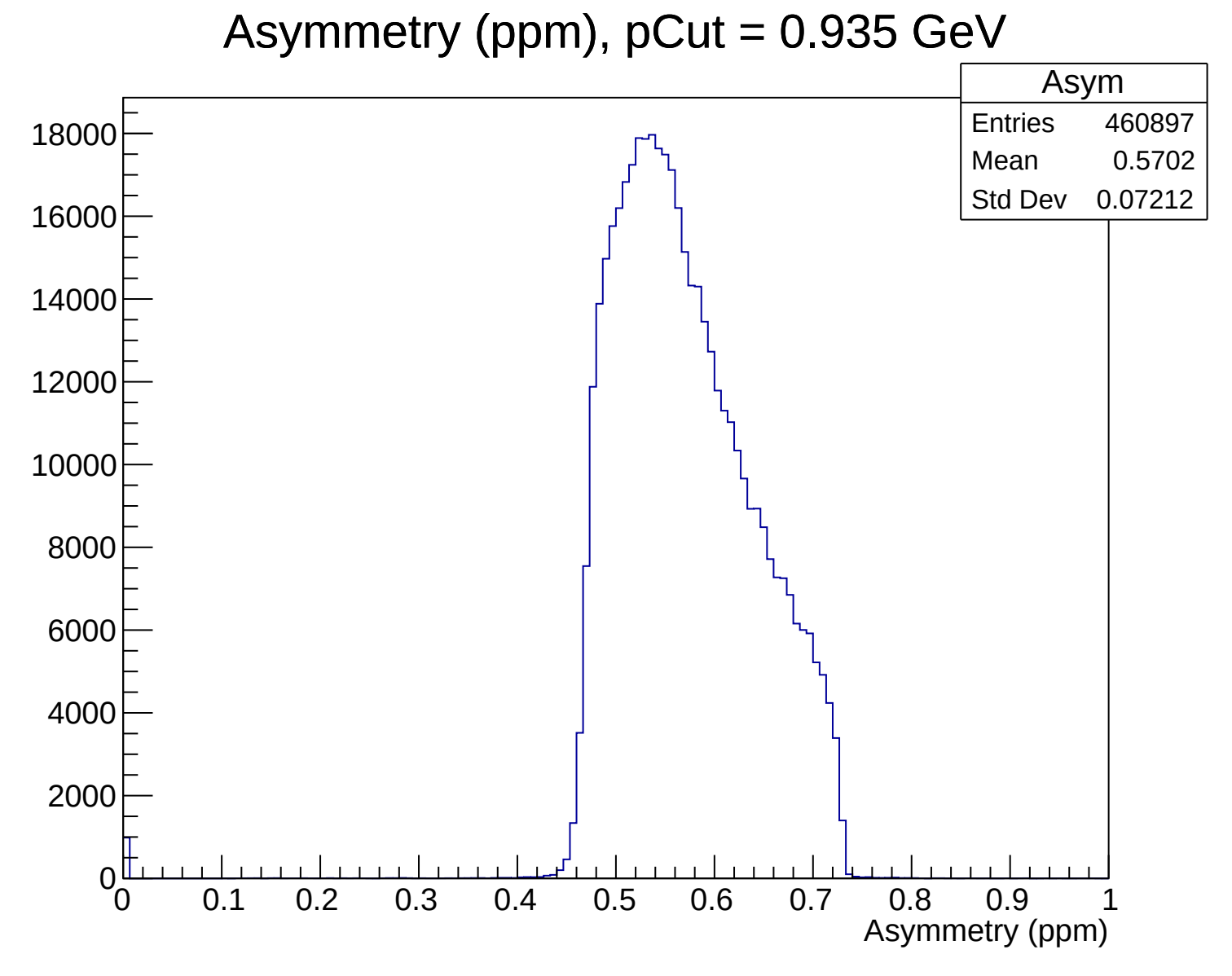

Stretched Asym. (ppm), pCut = 0.934 GeV
SAsym
Entries 469524
Mean 0.5571
Std Dev 0.06847
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

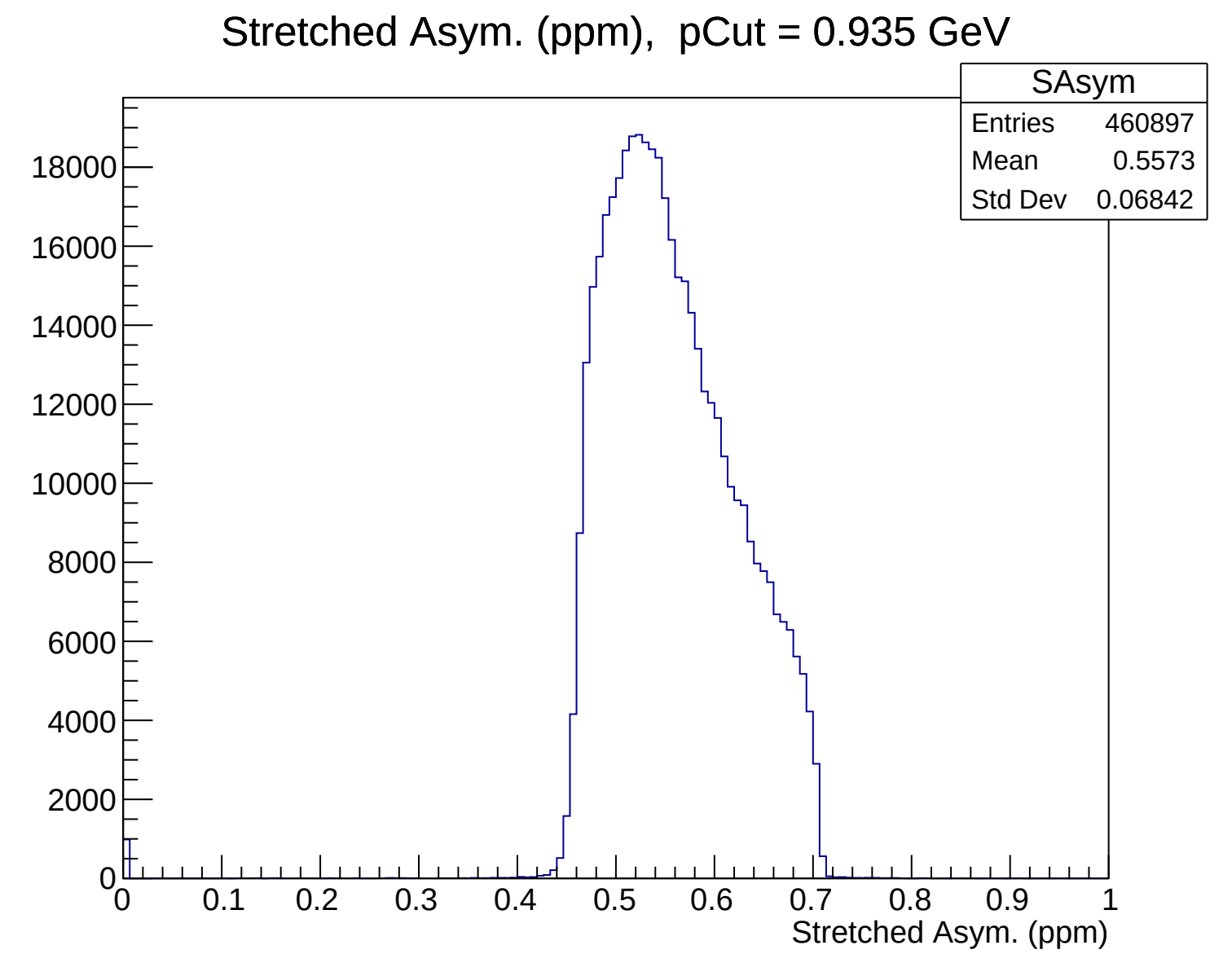

Q^2 (GeV/c)^2, pCut = 0.934 GeV
Q2
Entries 469524
Mean 0.006287
Std Dev 0.001199
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

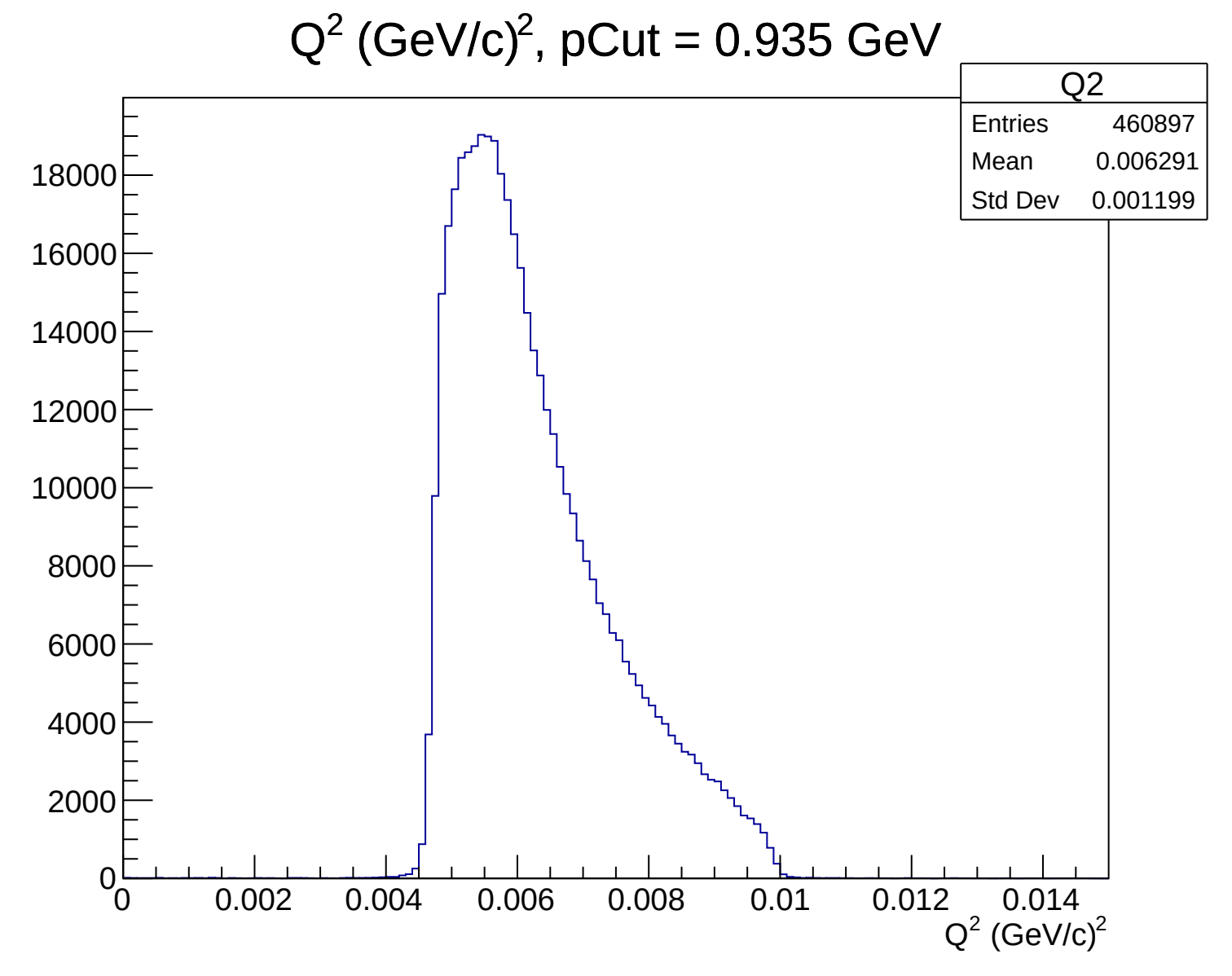

Sensitivity, pCut = 0.934 GeV
sens
Entries 469524
Mean 0.0221
Std Dev 0.003821
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

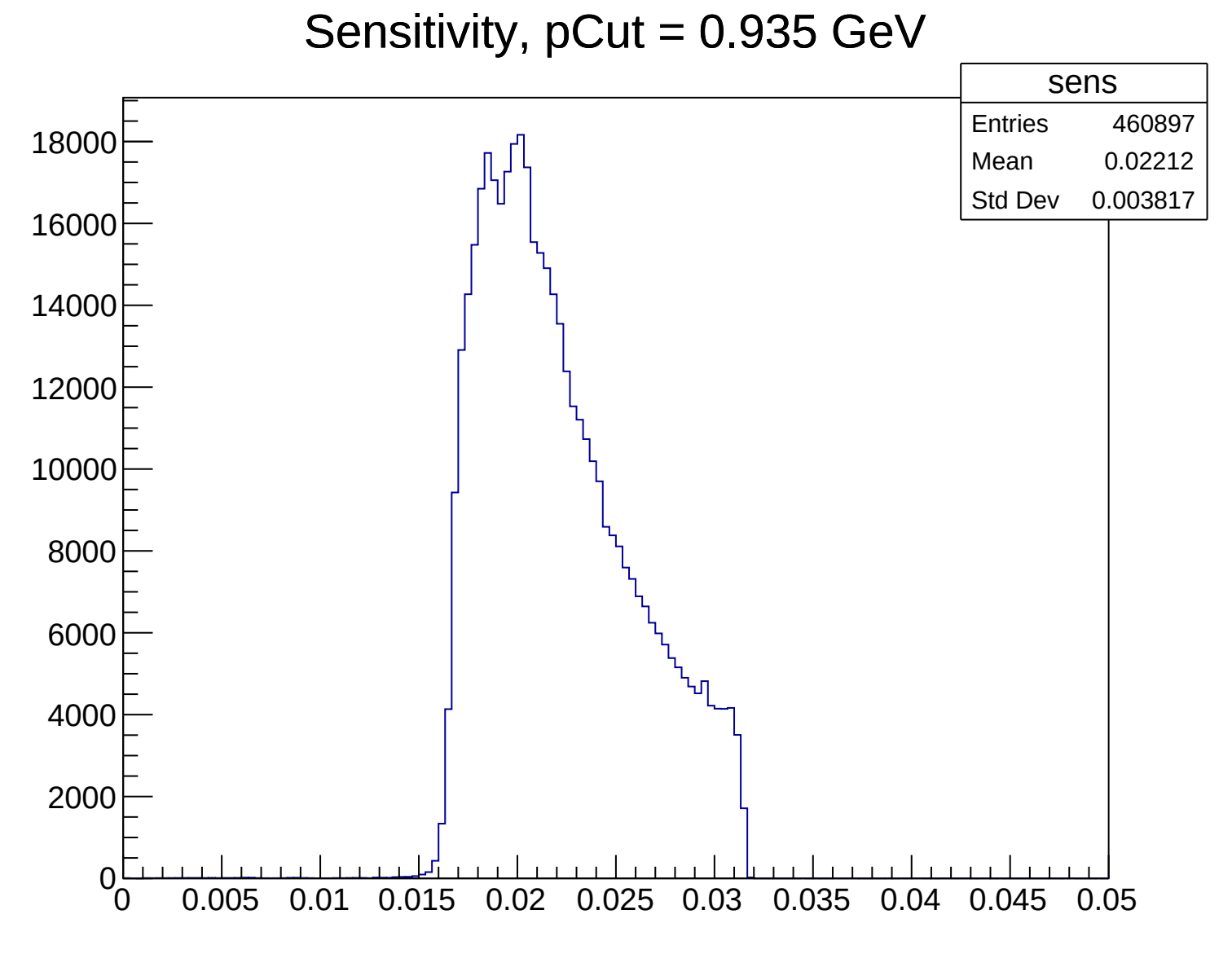

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9350 GeV
R.gold.p (GeV)

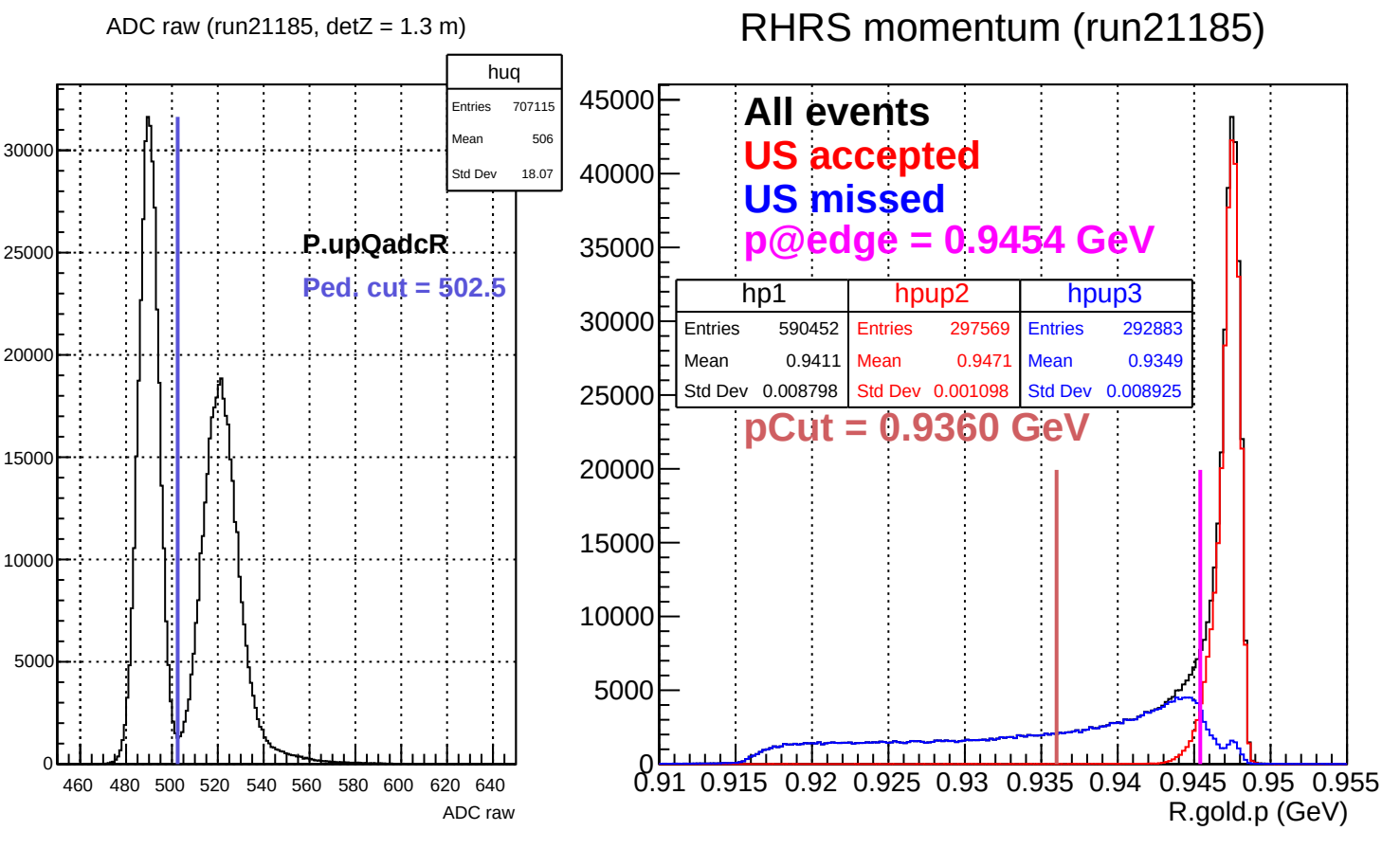

θlab (deg), pCut = 0.935 GeV
Theta
Entries 460897
Mean 4.777
Std Dev 0.4437
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

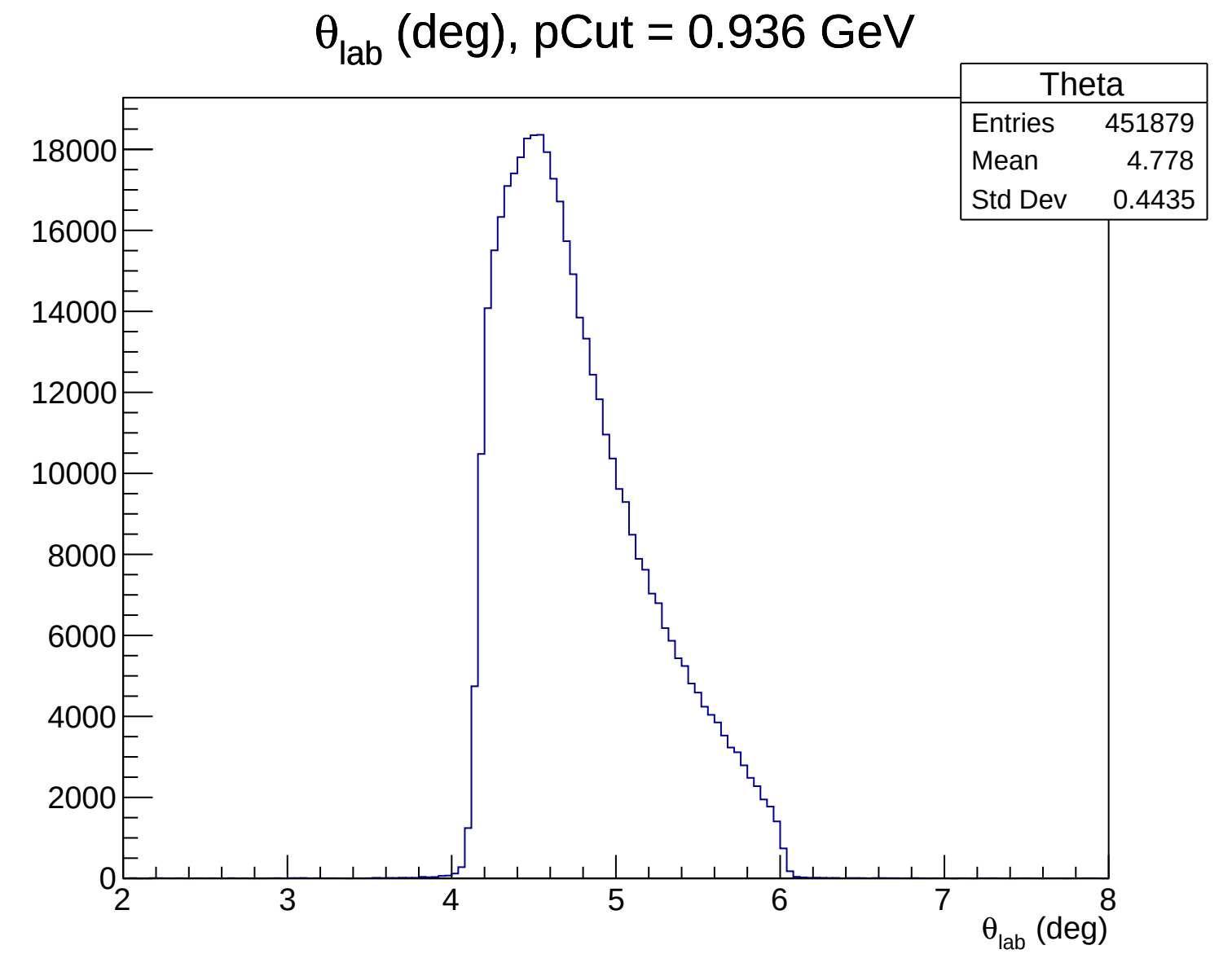

Asymmetry (ppm), pCut = 0.935 GeV
Asym
Entries 460897
Mean 0.5702
Std Dev 0.07212
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

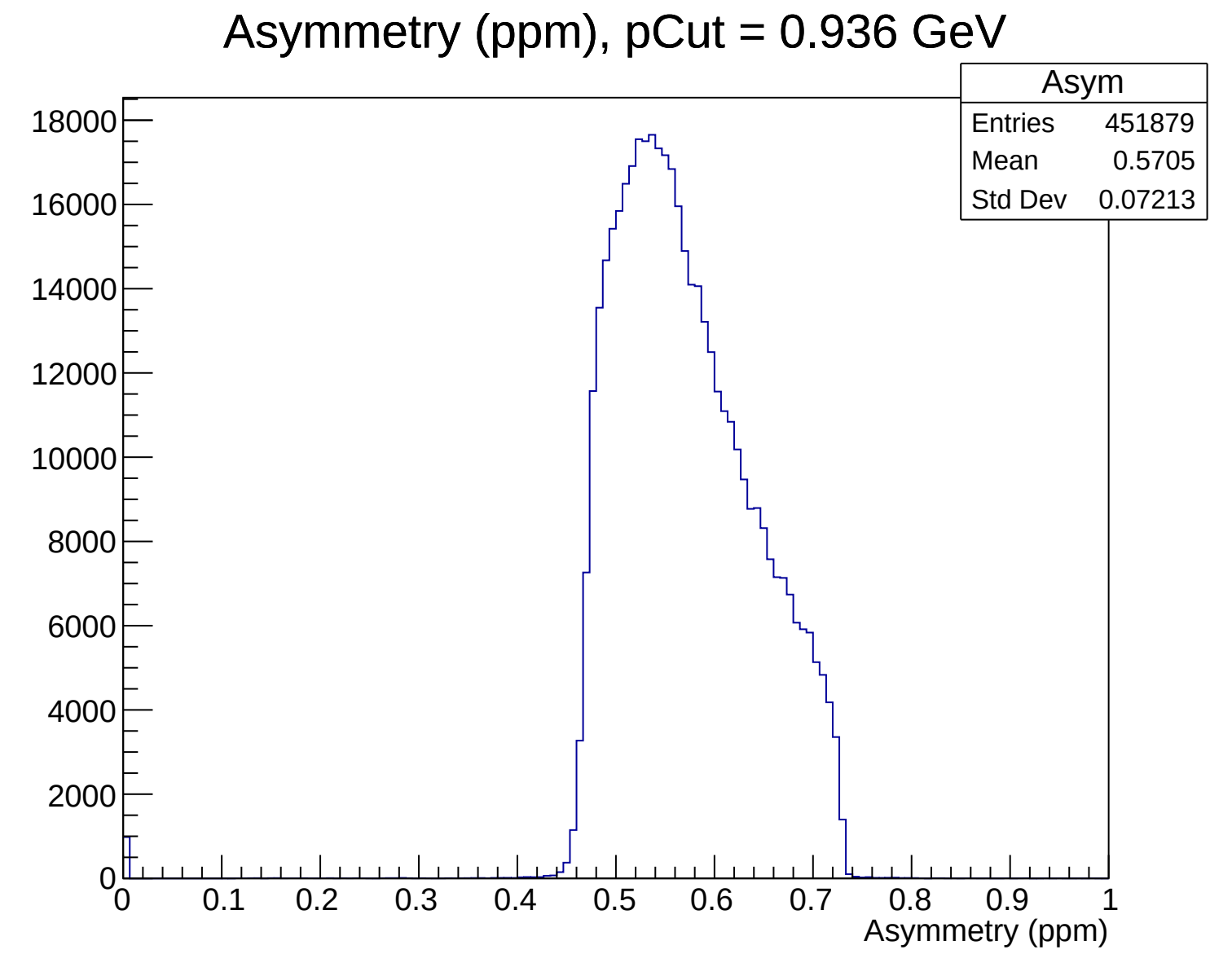

Stretched Asym. (ppm), pCut = 0.935 GeV
SAsym
Entries 460897
Mean 0.5573
Std Dev 0.06842
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

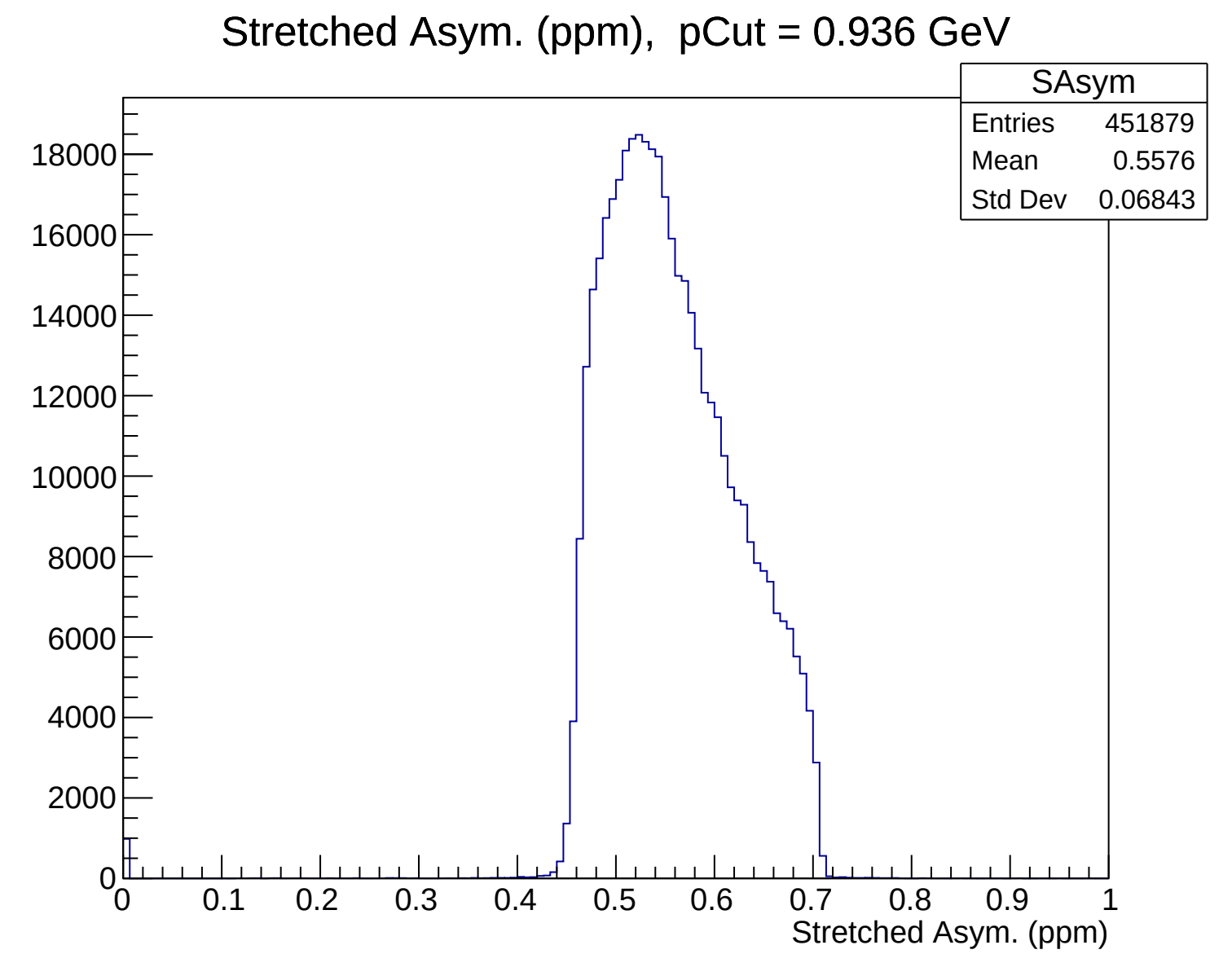

Q^2 (GeV/c)^2, pCut = 0.935 GeV
Q2
Entries 460897
Mean 0.006291
Std Dev 0.001199
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

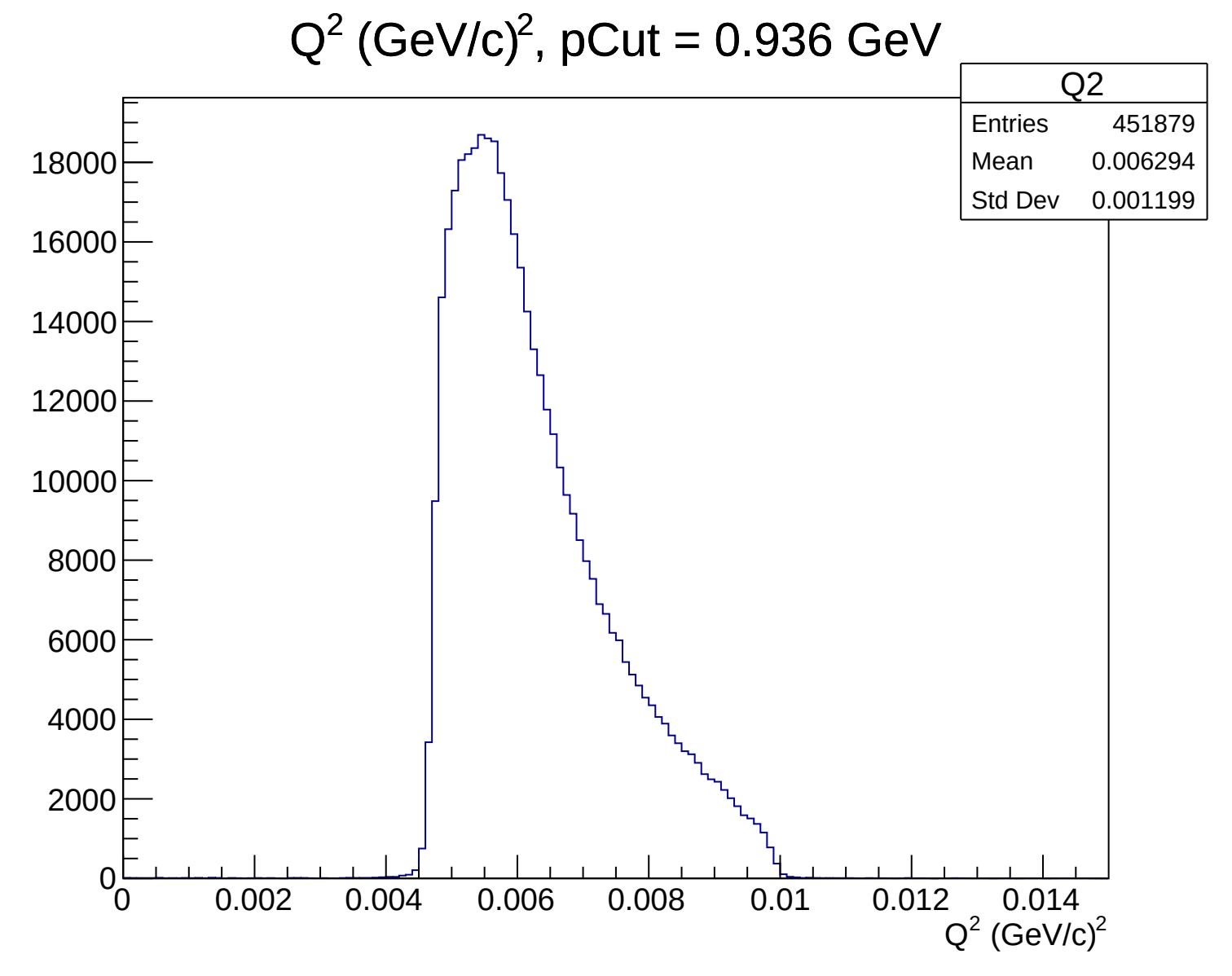

Sensitivity, pCut = 0.935 GeV
sens
Entries 460897
Mean 0.02212
Std Dev 0.003817
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

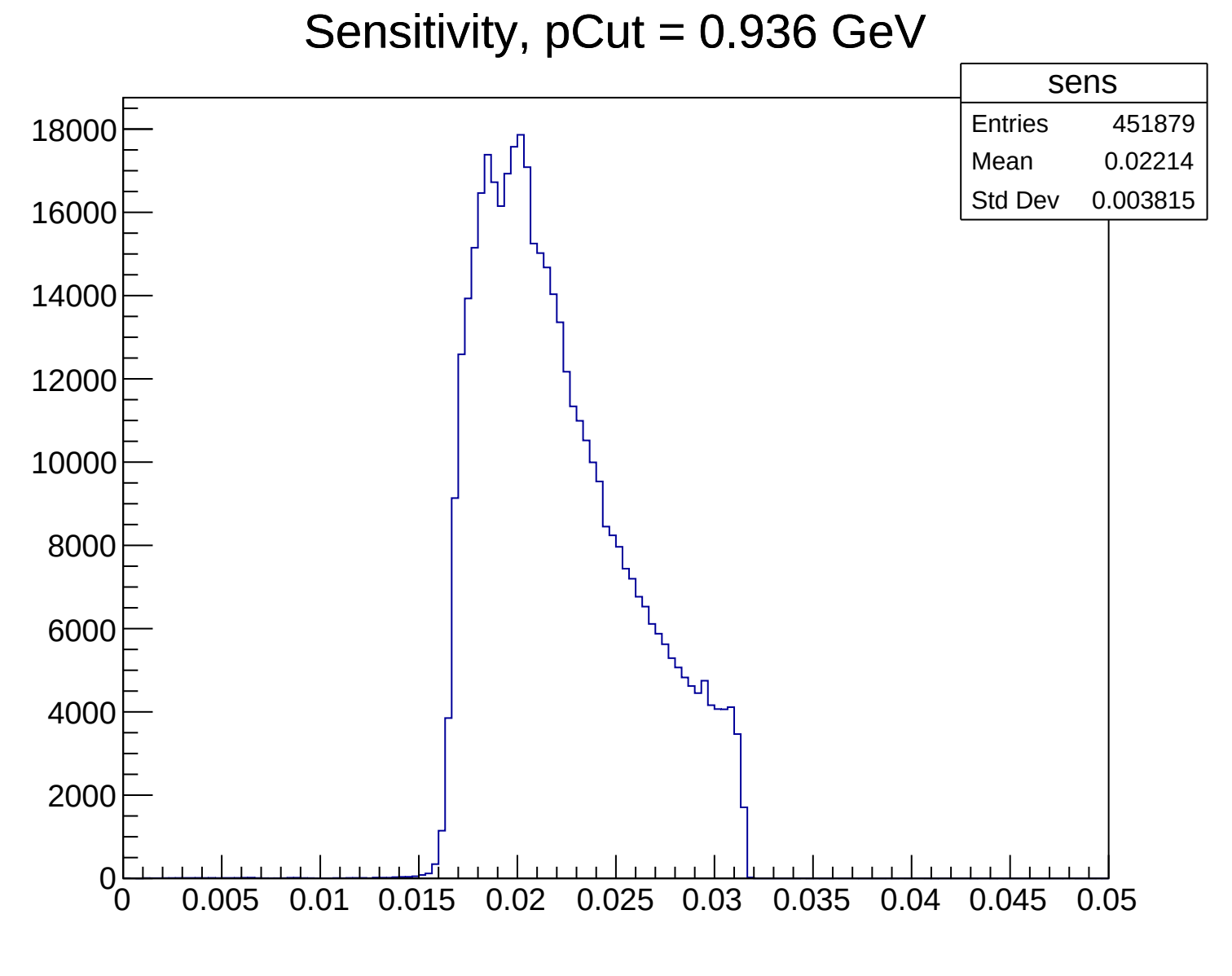

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9360 GeV
R.gold.p (GeV)

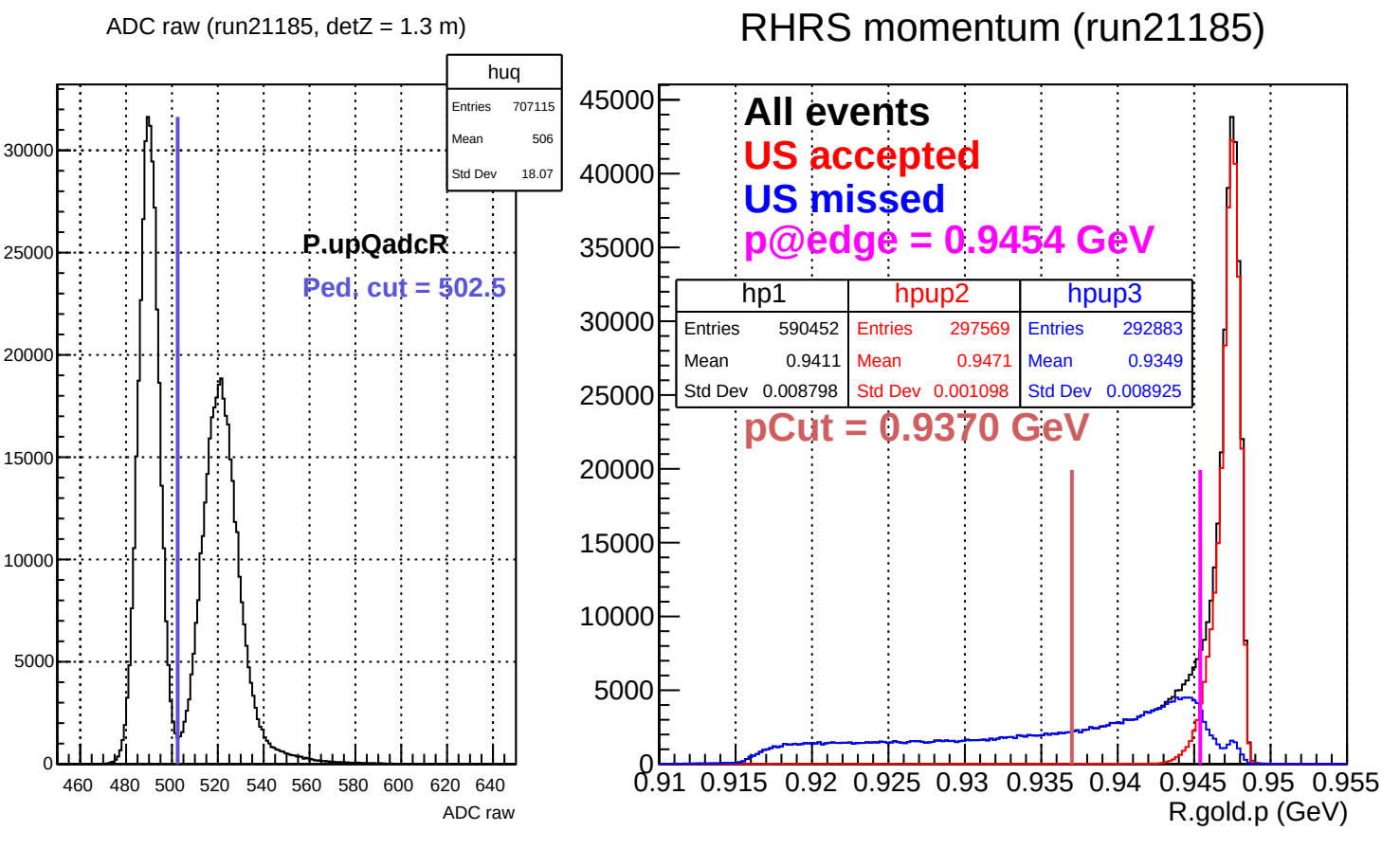

θlab (deg), pCut = 0.936 GeV
Theta
Entries 451879
Mean 4.778
Std Dev 0.4435
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

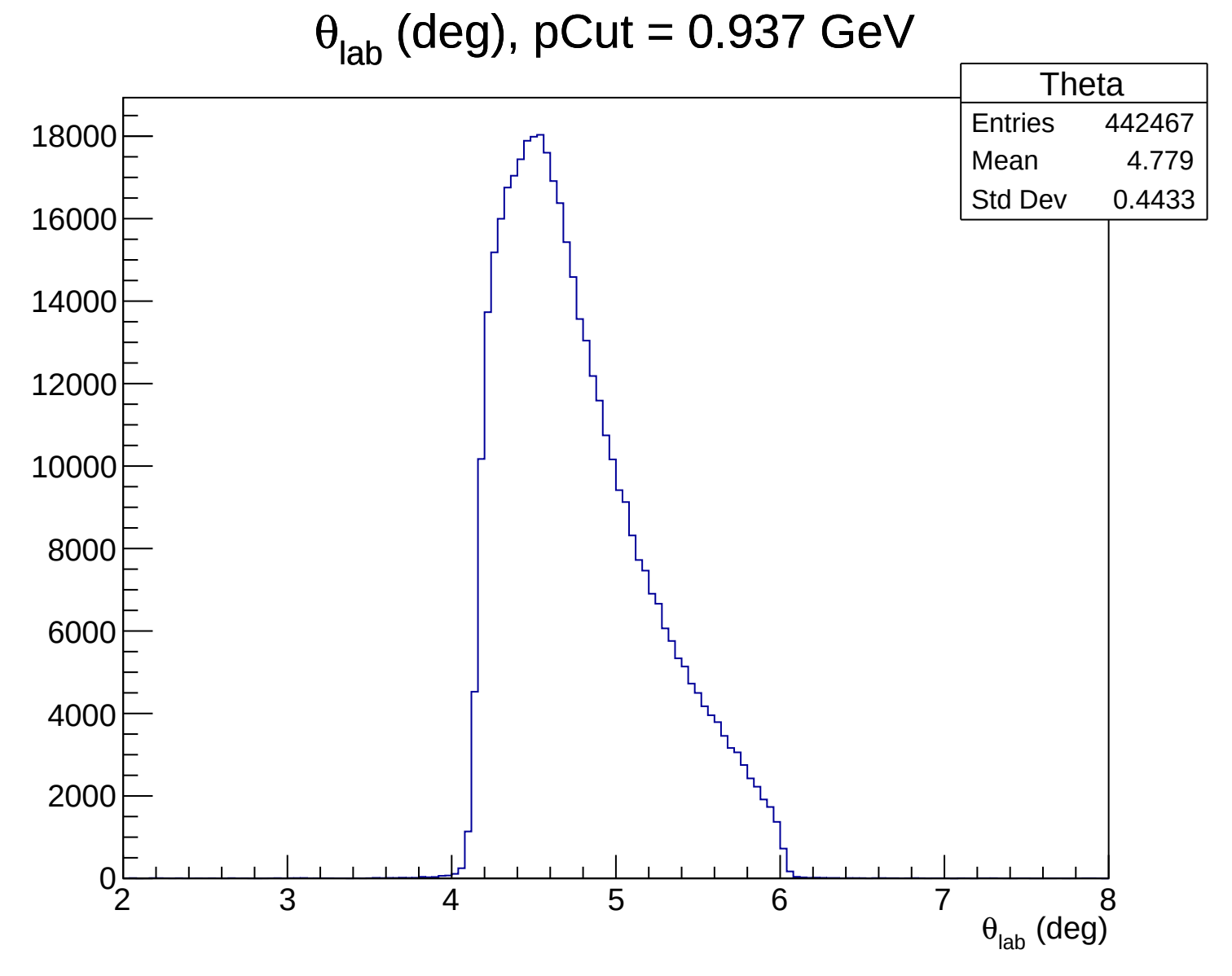

Asymmetry (ppm), pCut = 0.936 GeV
Asym
Entries 451879
Mean 0.5705
Std Dev 0.07213
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

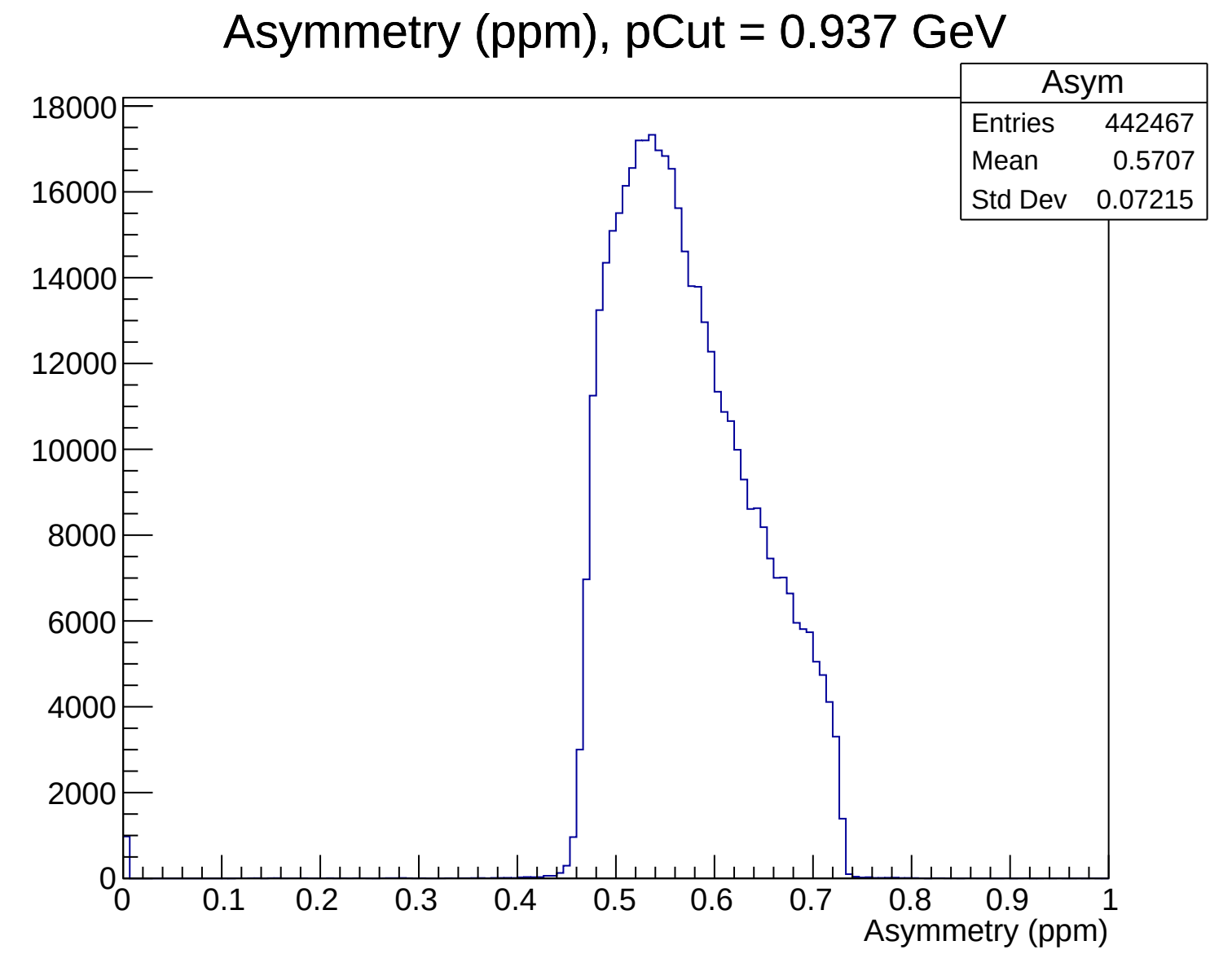

Stretched Asym. (ppm), pCut = 0.936 GeV
SAsym
Entries 451879
Mean 0.5576
Std Dev 0.06843
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

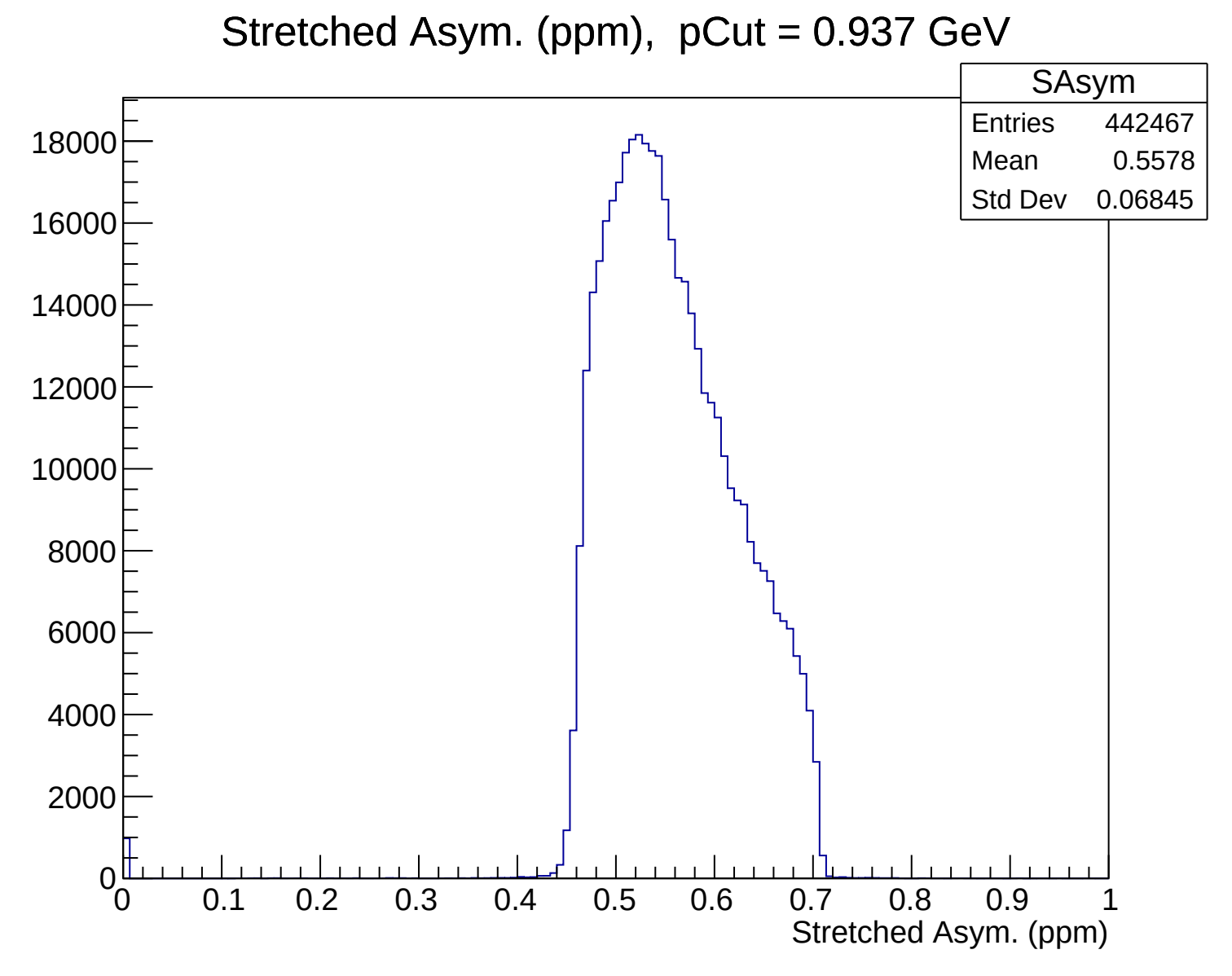

Q^2 (GeV/c)^2, pCut = 0.936 GeV
Q2
Entries 451879
Mean 0.006294
Std Dev 0.001199
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

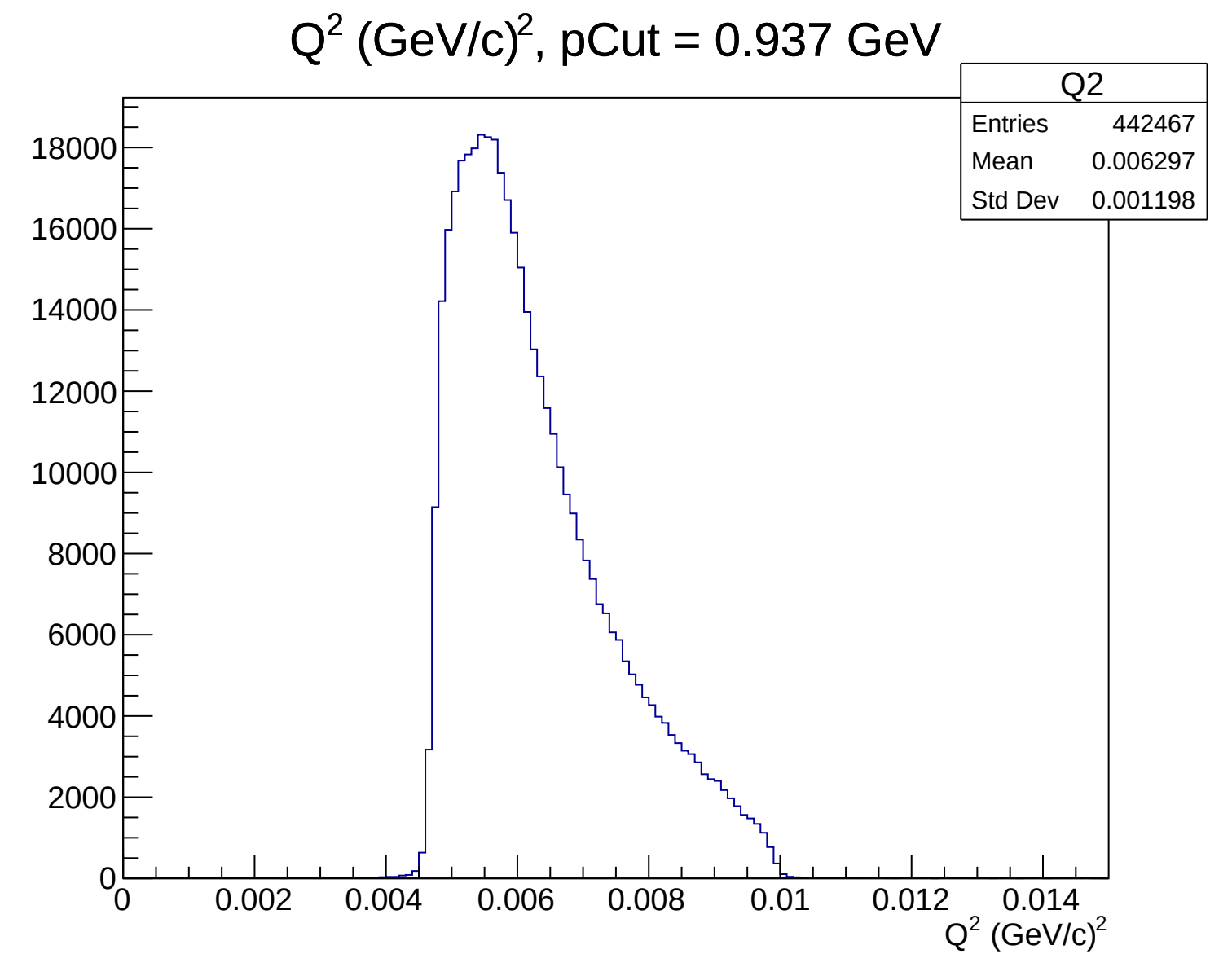

Sensitivity, pCut = 0.936 GeV
sens
Entries 451879
Mean 0.02214
Std Dev 0.003815
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

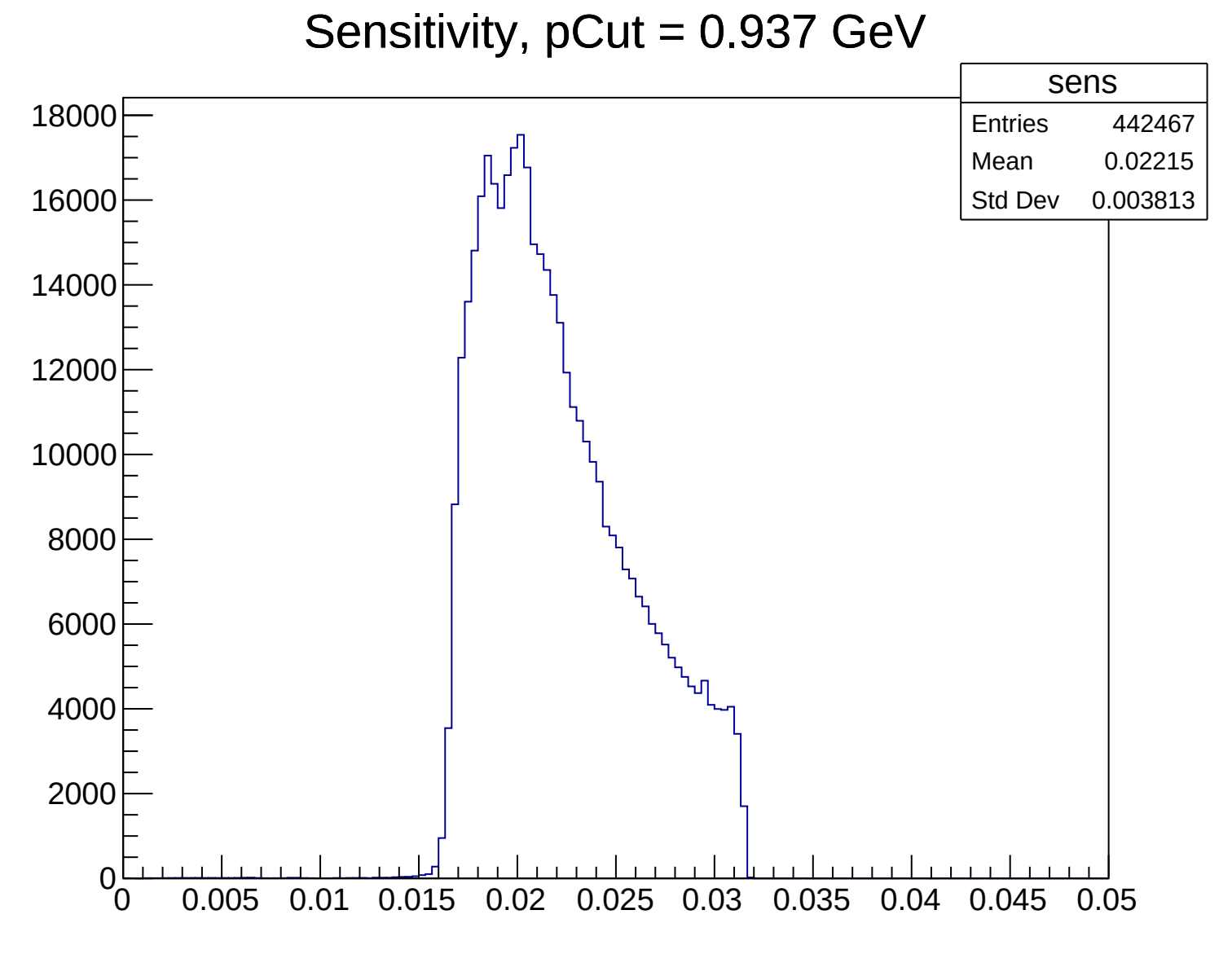

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9370 GeV
R.gold.p (GeV)

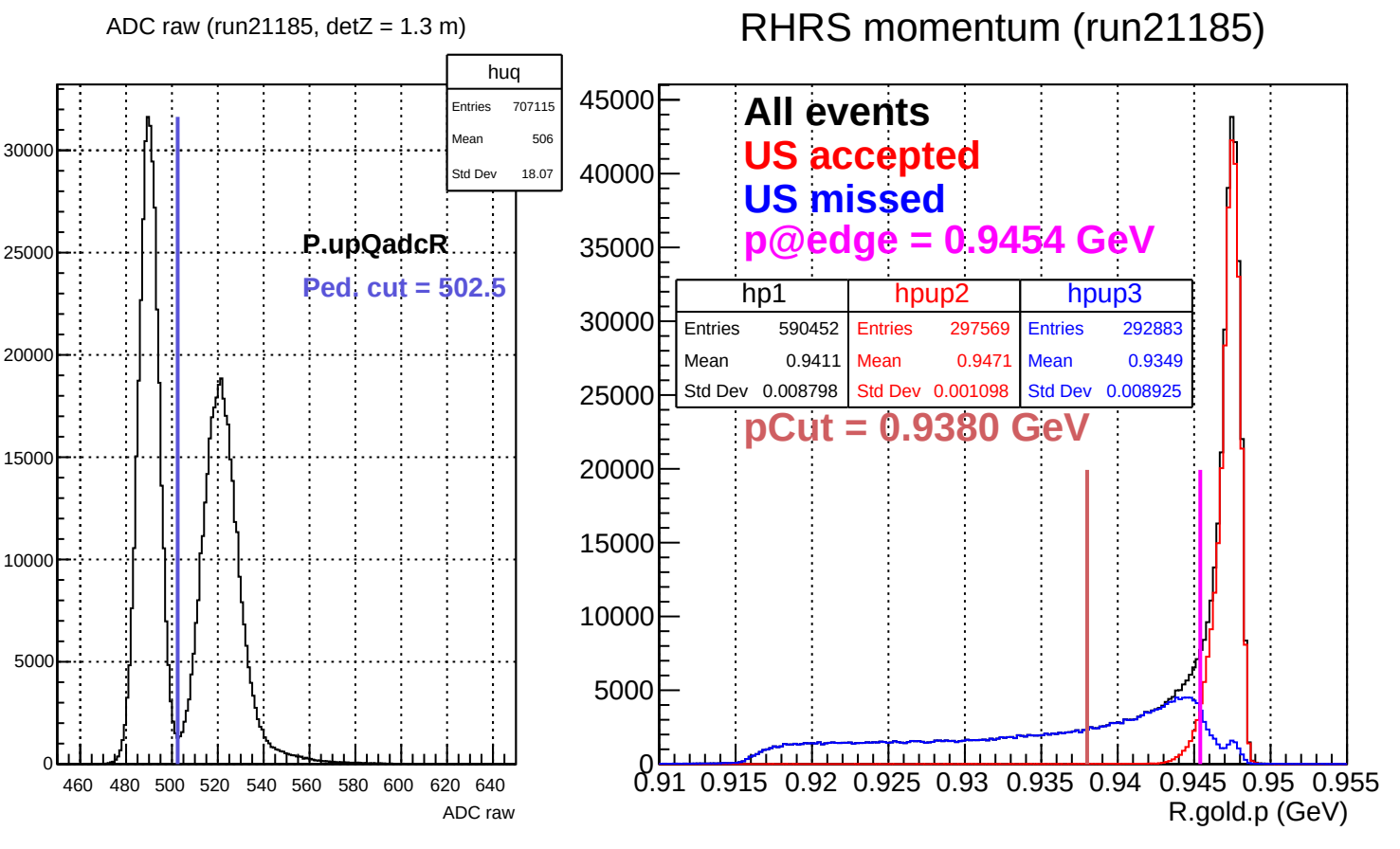

θlab (deg), pCut = 0.937 GeV
Theta
Entries 442467
Mean 4.779
Std Dev 0.4433
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

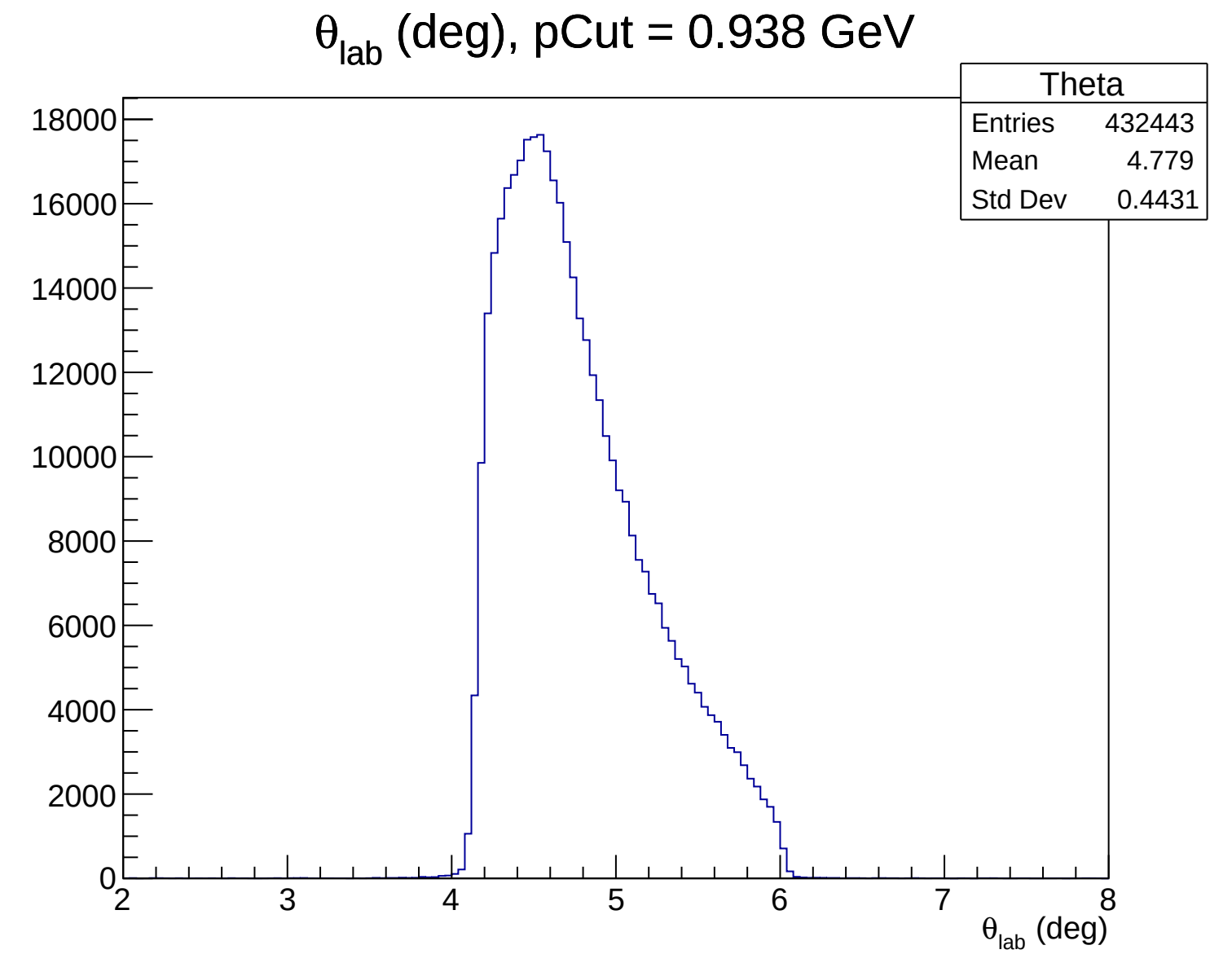

Asymmetry (ppm), pCut = 0.937 GeV
Asym
Entries 442467
Mean 0.5707
Std Dev 0.07215
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

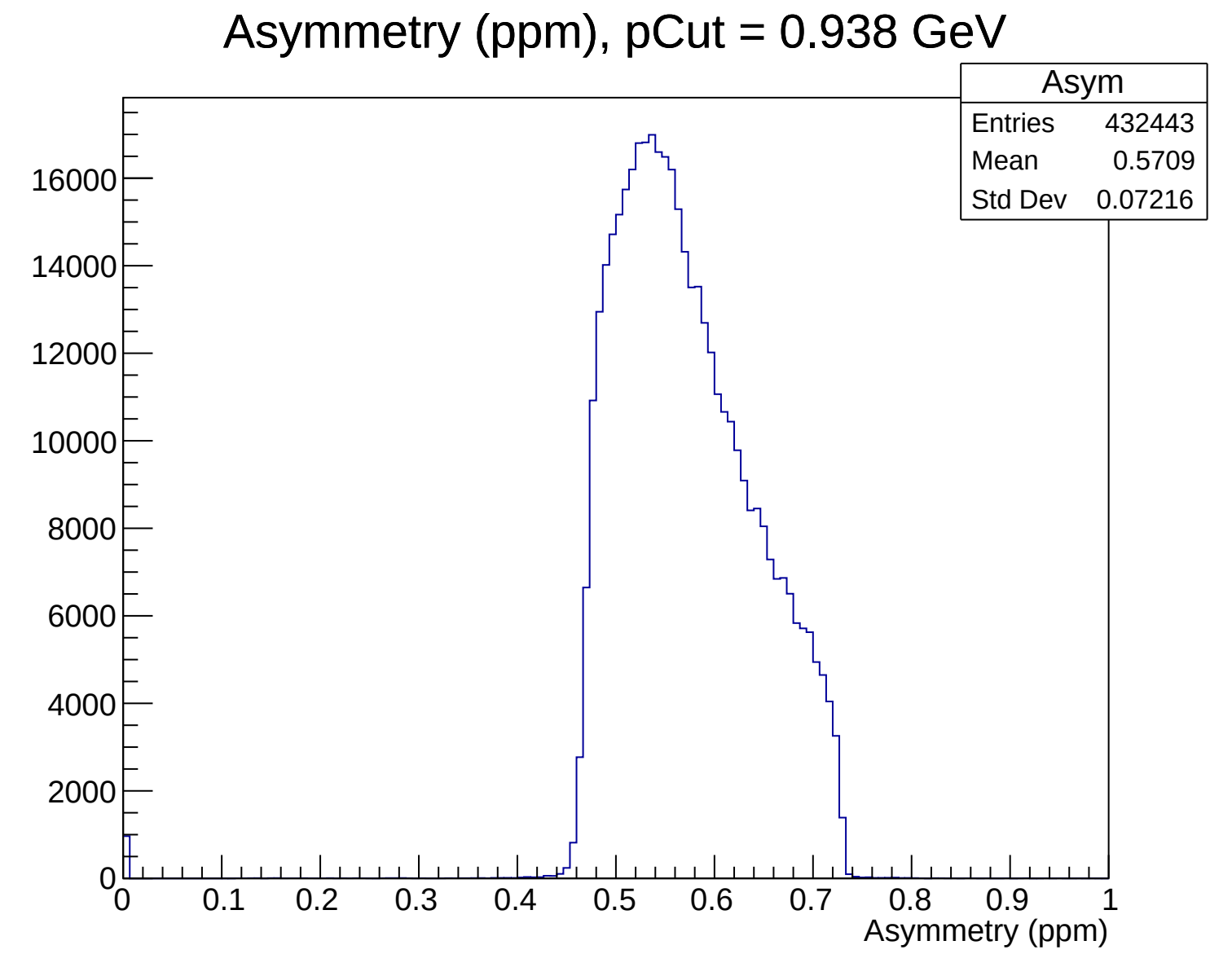

Stretched Asym. (ppm), pCut = 0.937 GeV
SAsym
Entries 442467
Mean 0.5578
Std Dev 0.06845
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

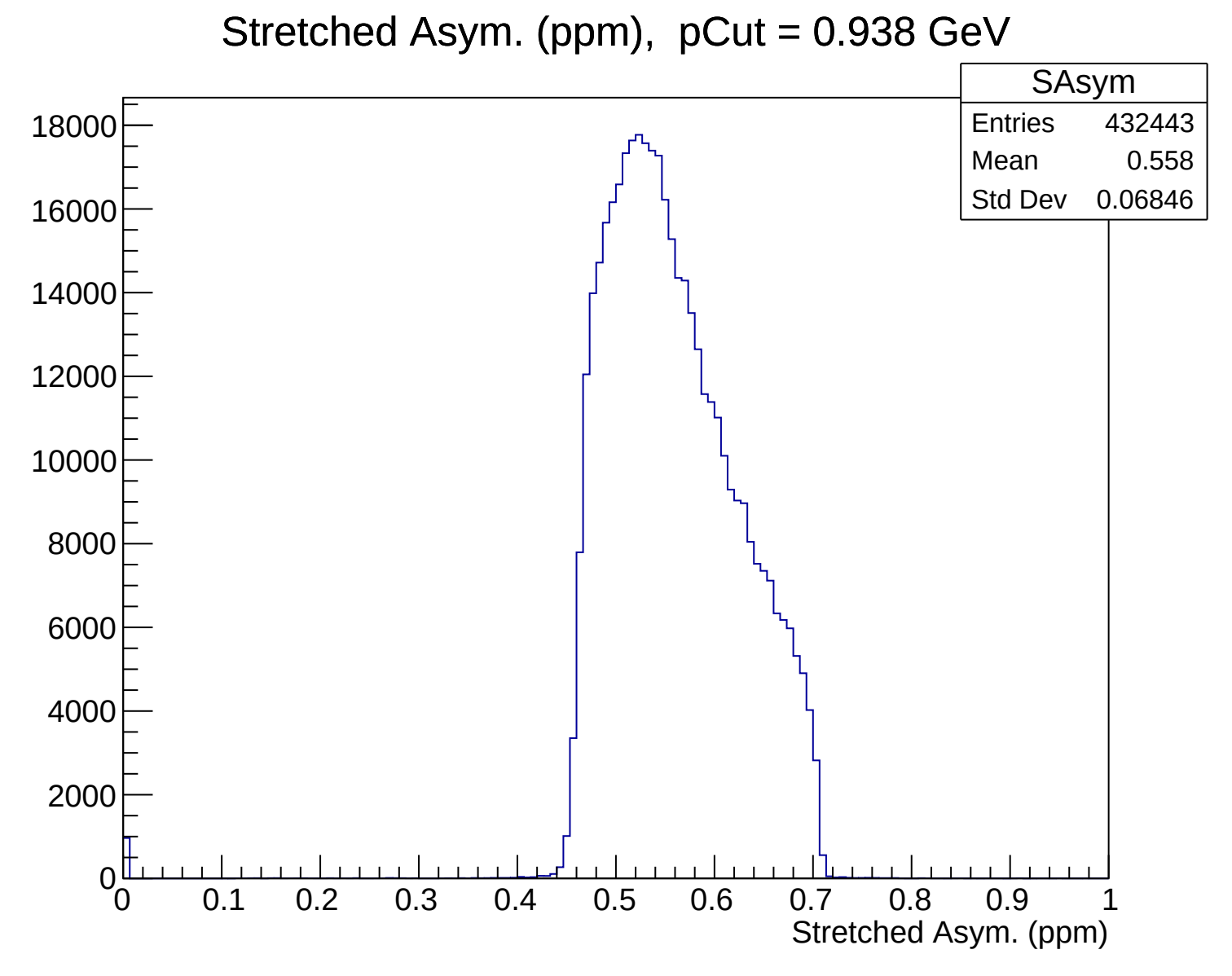

Q^2 (GeV/c)^2, pCut = 0.937 GeV
Q2
Entries 442467
Mean 0.006297
Std Dev 0.001198
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

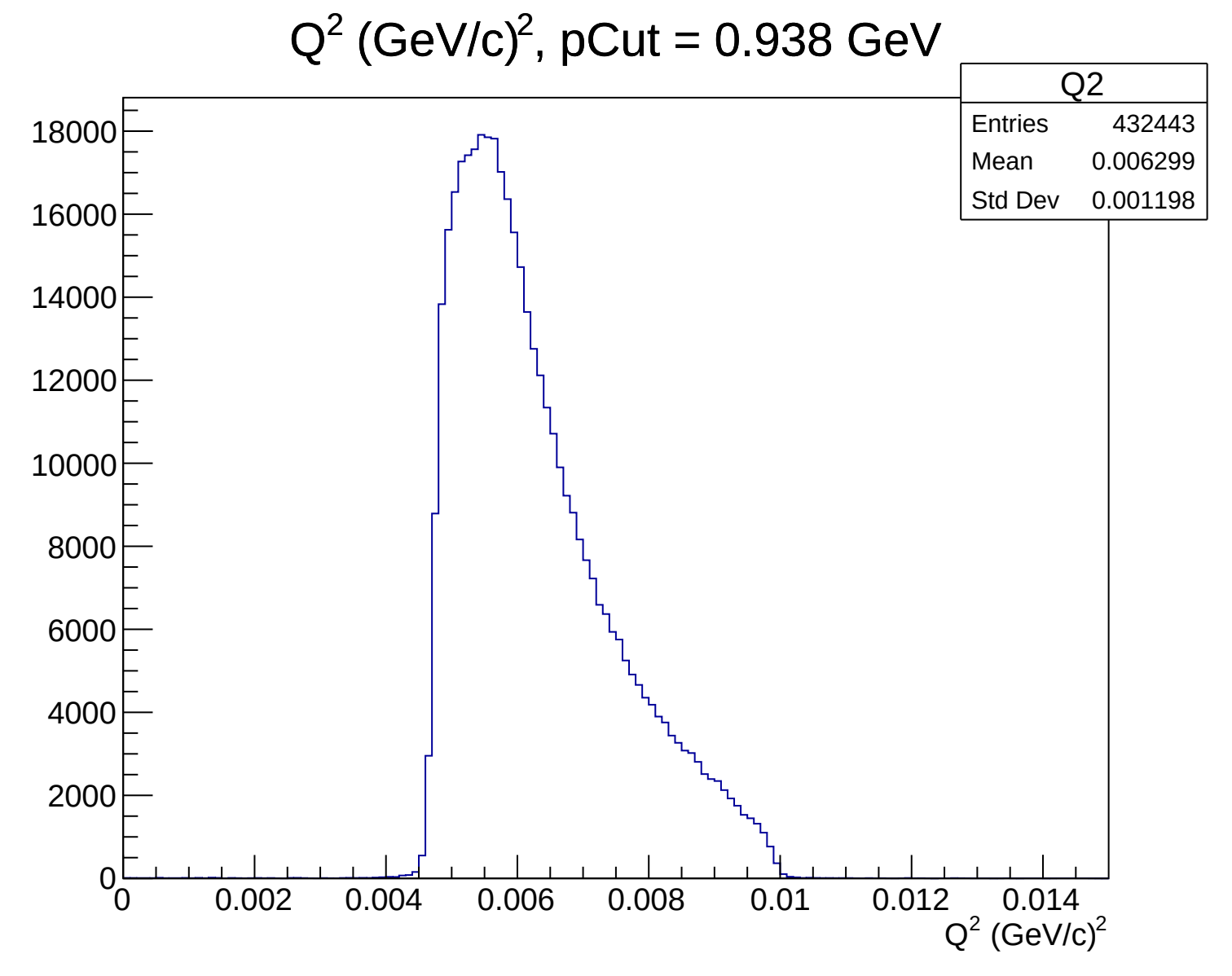

Sensitivity, pCut = 0.937 GeV
sens
Entries 442467
Mean 0.02215
Std Dev 0.003813
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

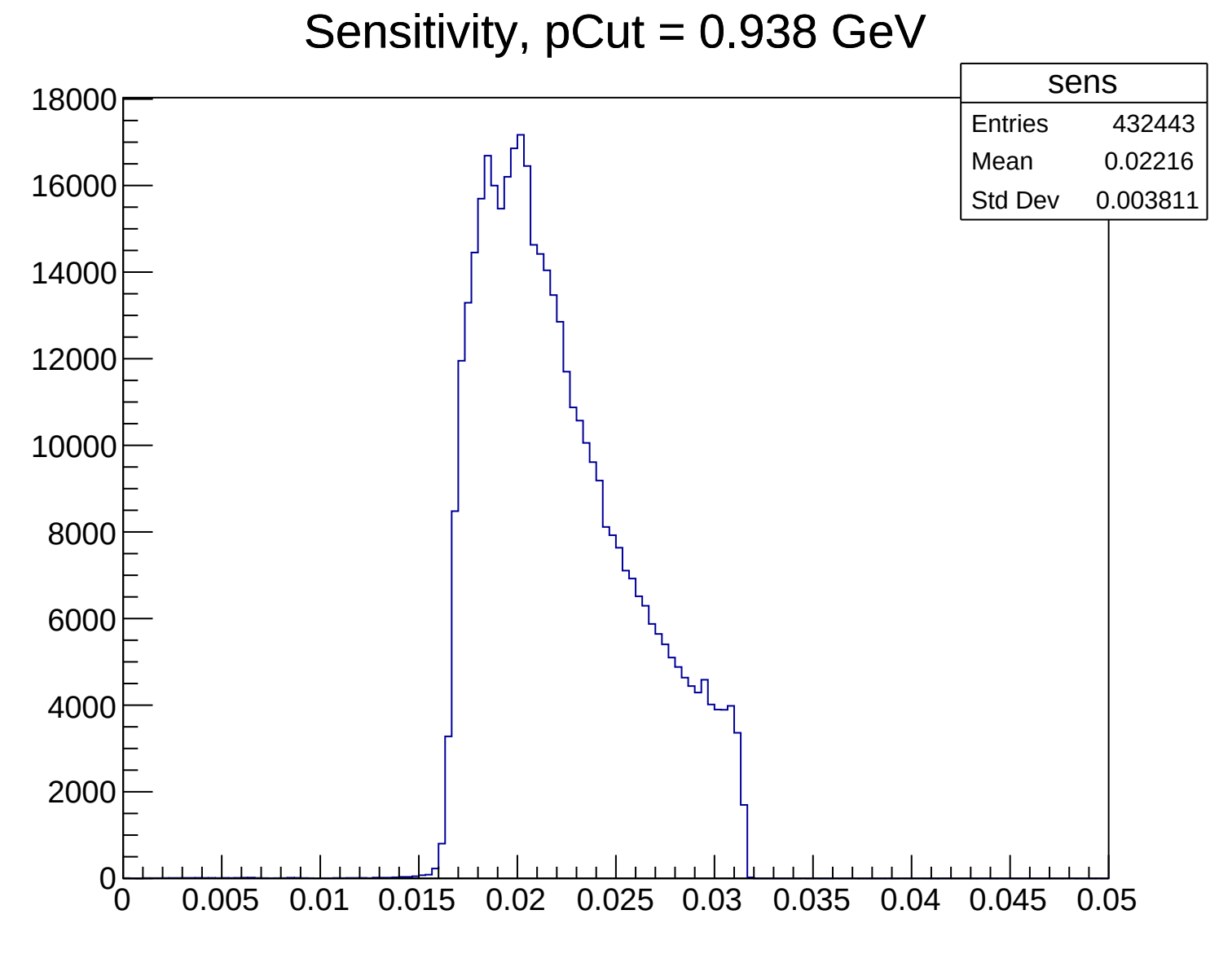

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9380 GeV
R.gold.p (GeV)

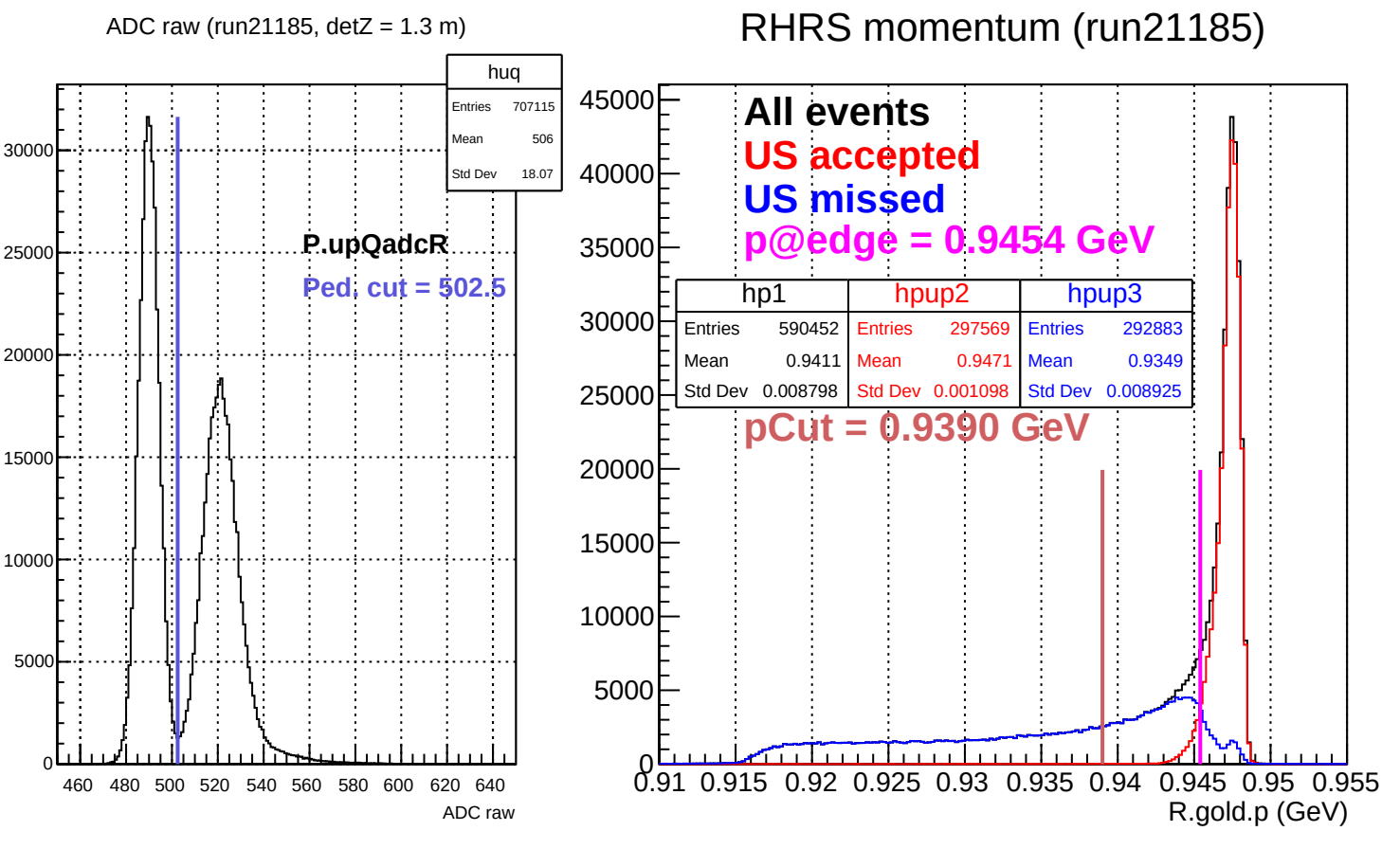

θlab (deg), pCut = 0.938 GeV
Theta
Entries 432443
Mean 4.779
Std Dev 0.4431
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

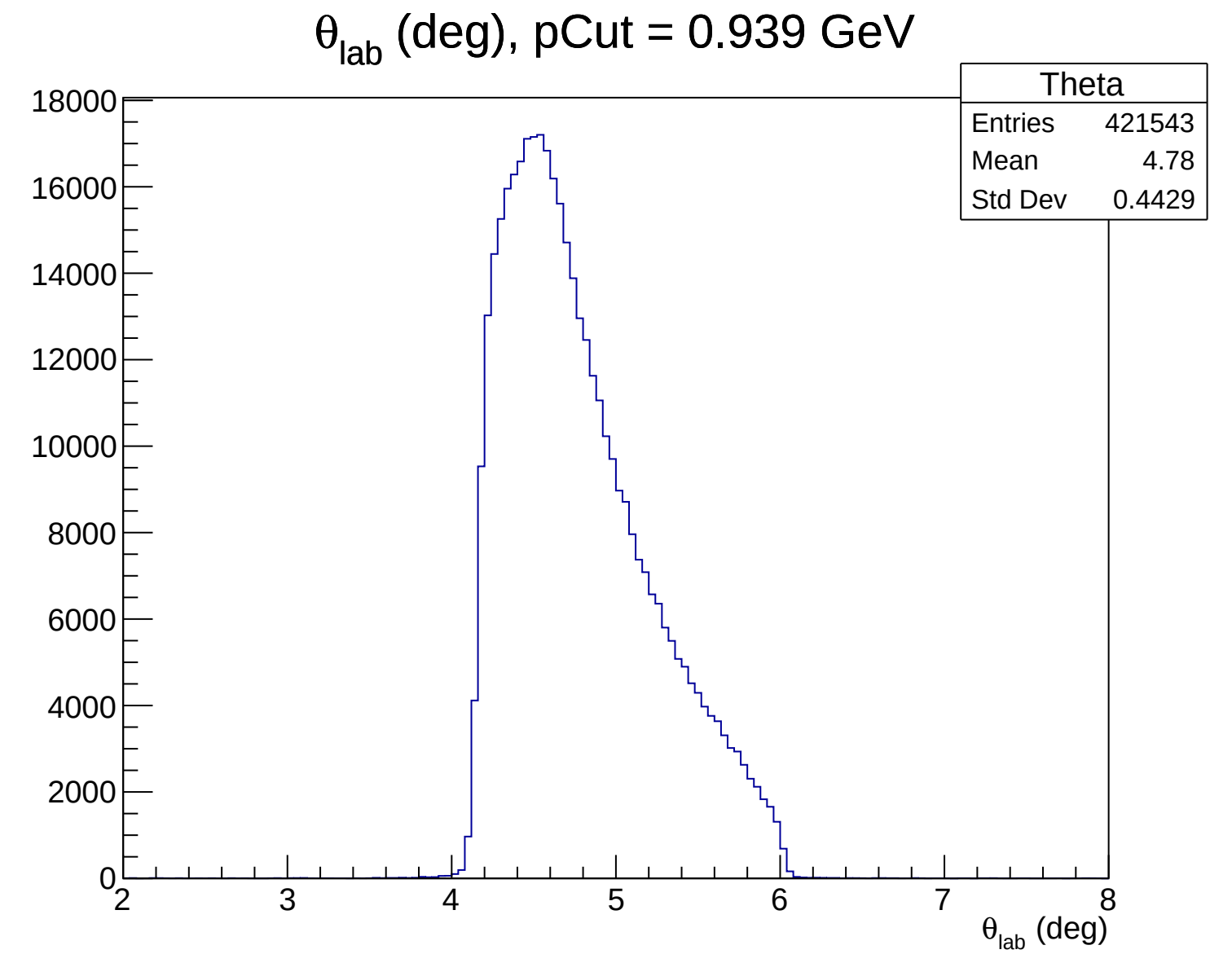

Asymmetry (ppm), pCut = 0.938 GeV
Asym
Entries 432443
Mean 0.5709
Std Dev 0.07216
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

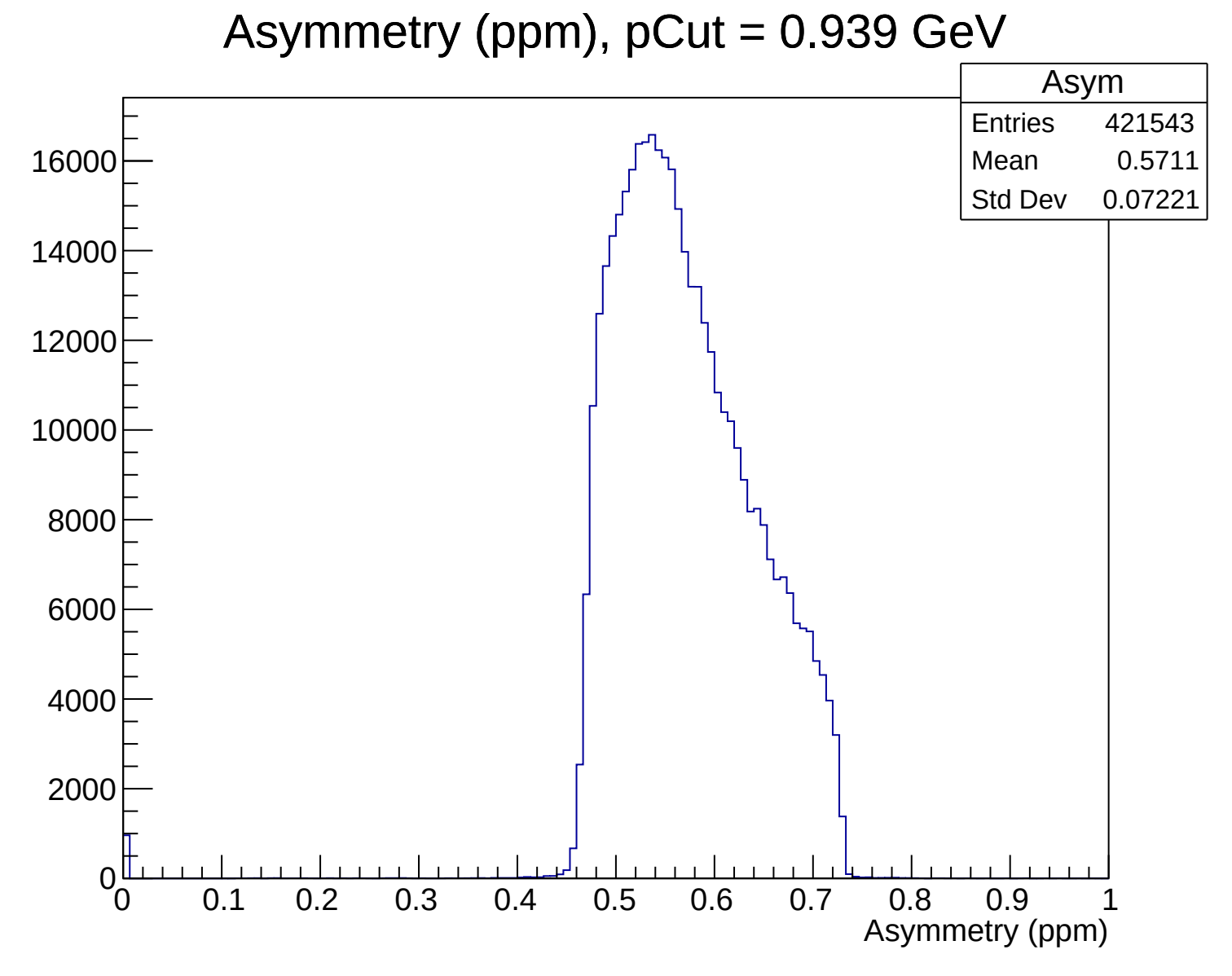

Stretched Asym. (ppm), pCut = 0.938 GeV
SAsym
Entries 432443
Mean 0.558
Std Dev 0.06846
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

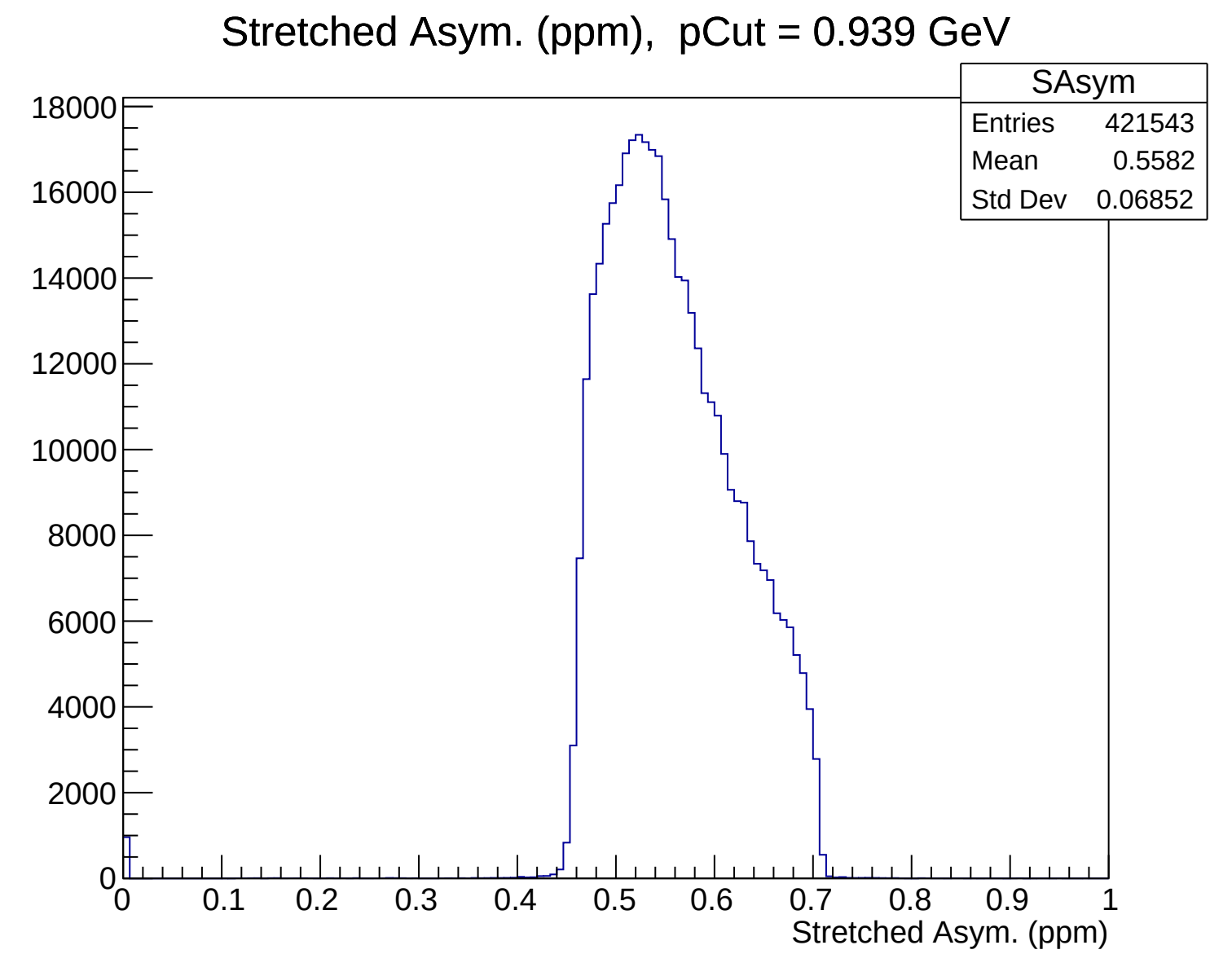

Q^2 (GeV/c)^2, pCut = 0.938 GeV
Q2
Entries 432443
Mean 0.006299
Std Dev 0.001198
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

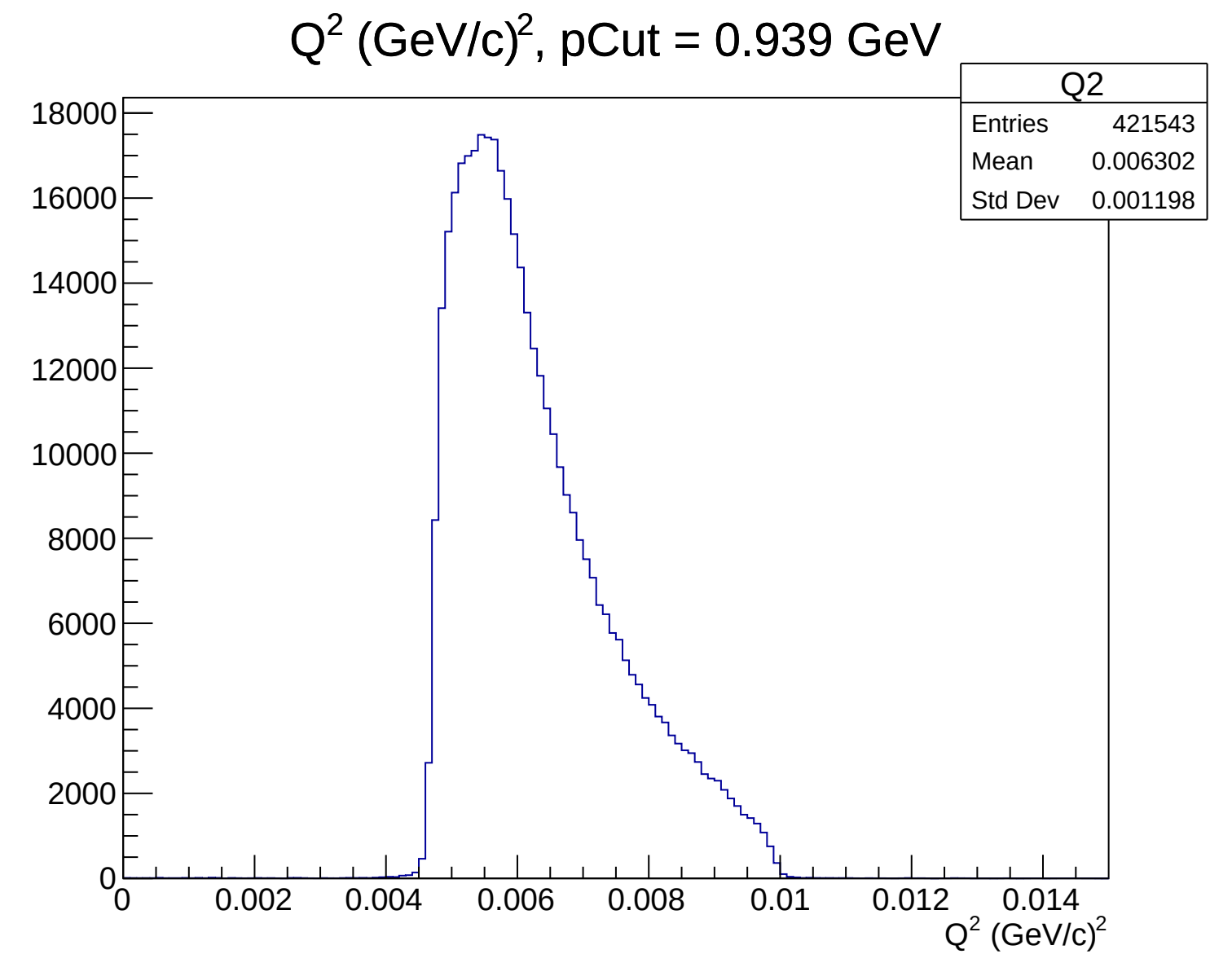

Sensitivity, pCut = 0.938 GeV
sens
Entries 432443
Mean 0.02216
Std Dev 0.003811
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

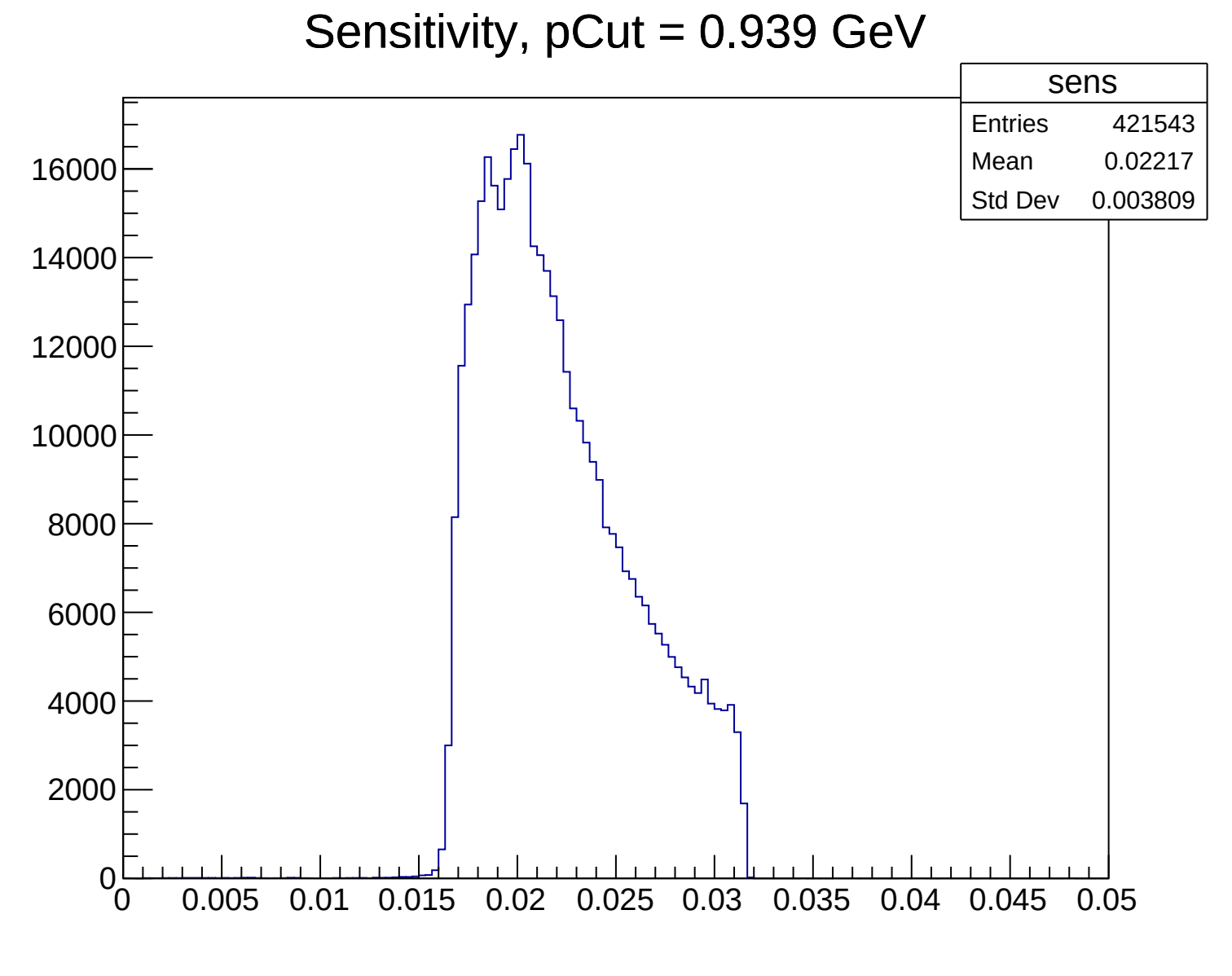

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9390 GeV
R.gold.p (GeV)

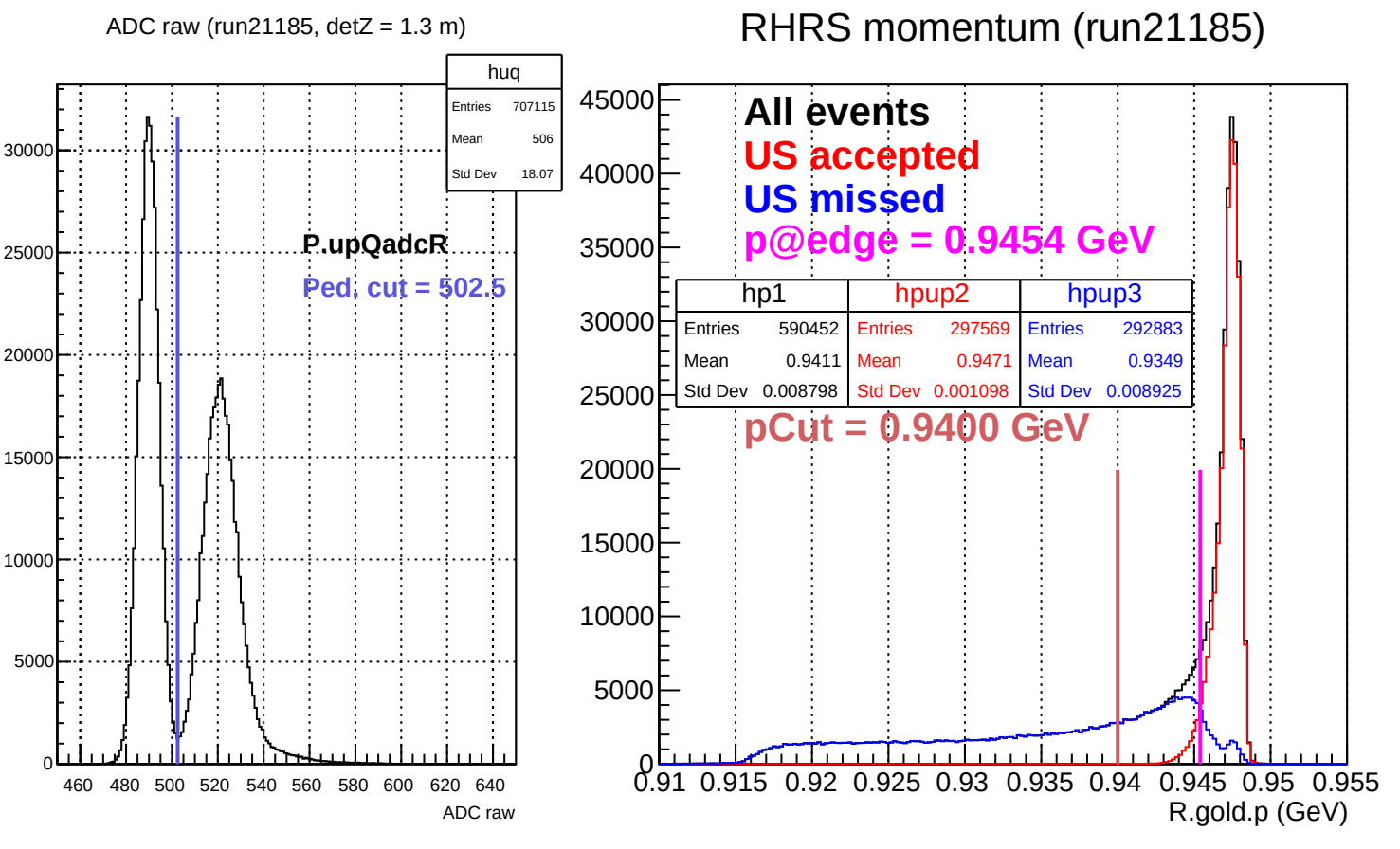

θlab (deg), pCut = 0.939 GeV
Theta
Entries 421543
Mean 4.78
Std Dev 0.4429
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

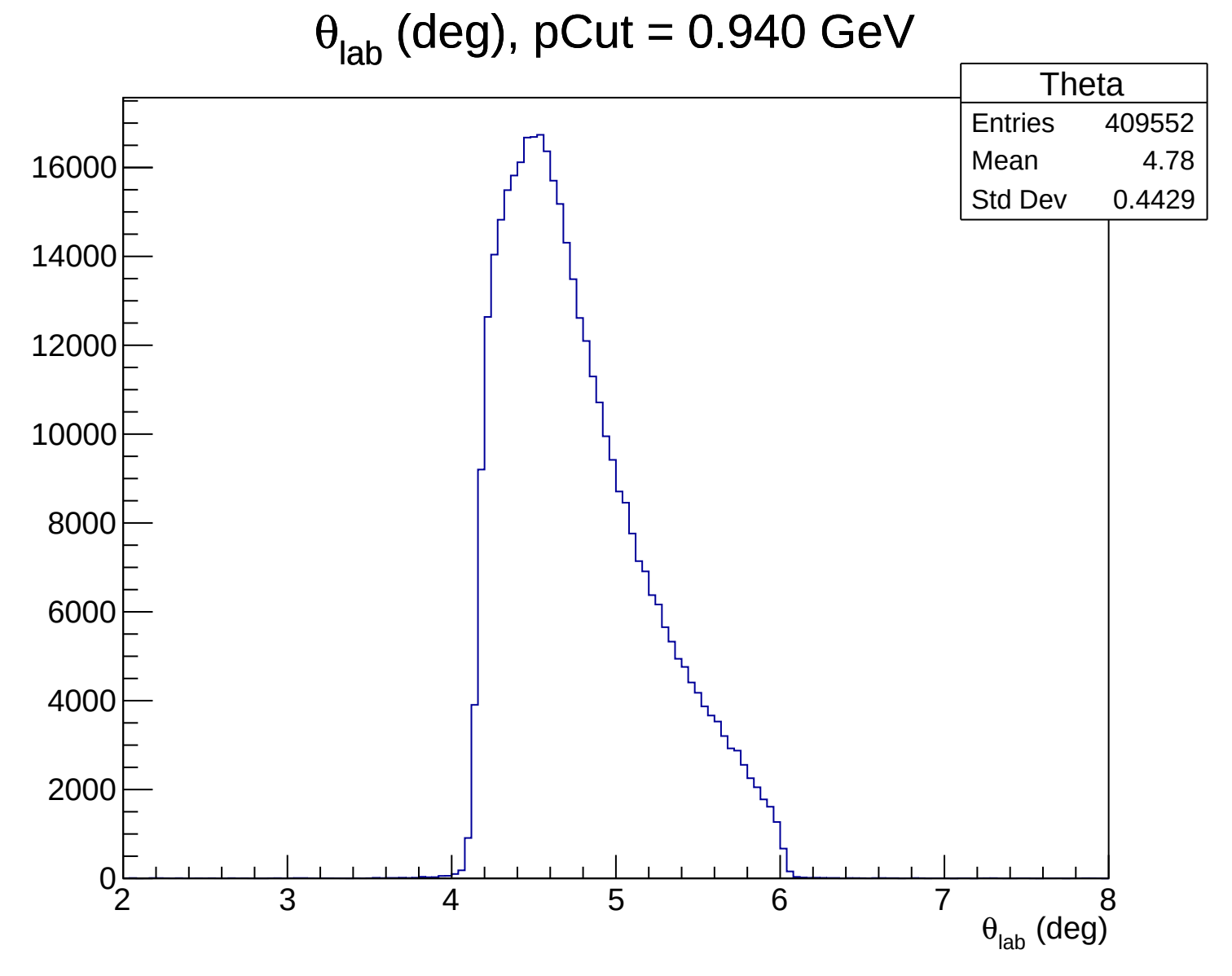

Asymmetry (ppm), pCut = 0.939 GeV
Asym
Entries 421543
Mean 0.5711
Std Dev 0.07221
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

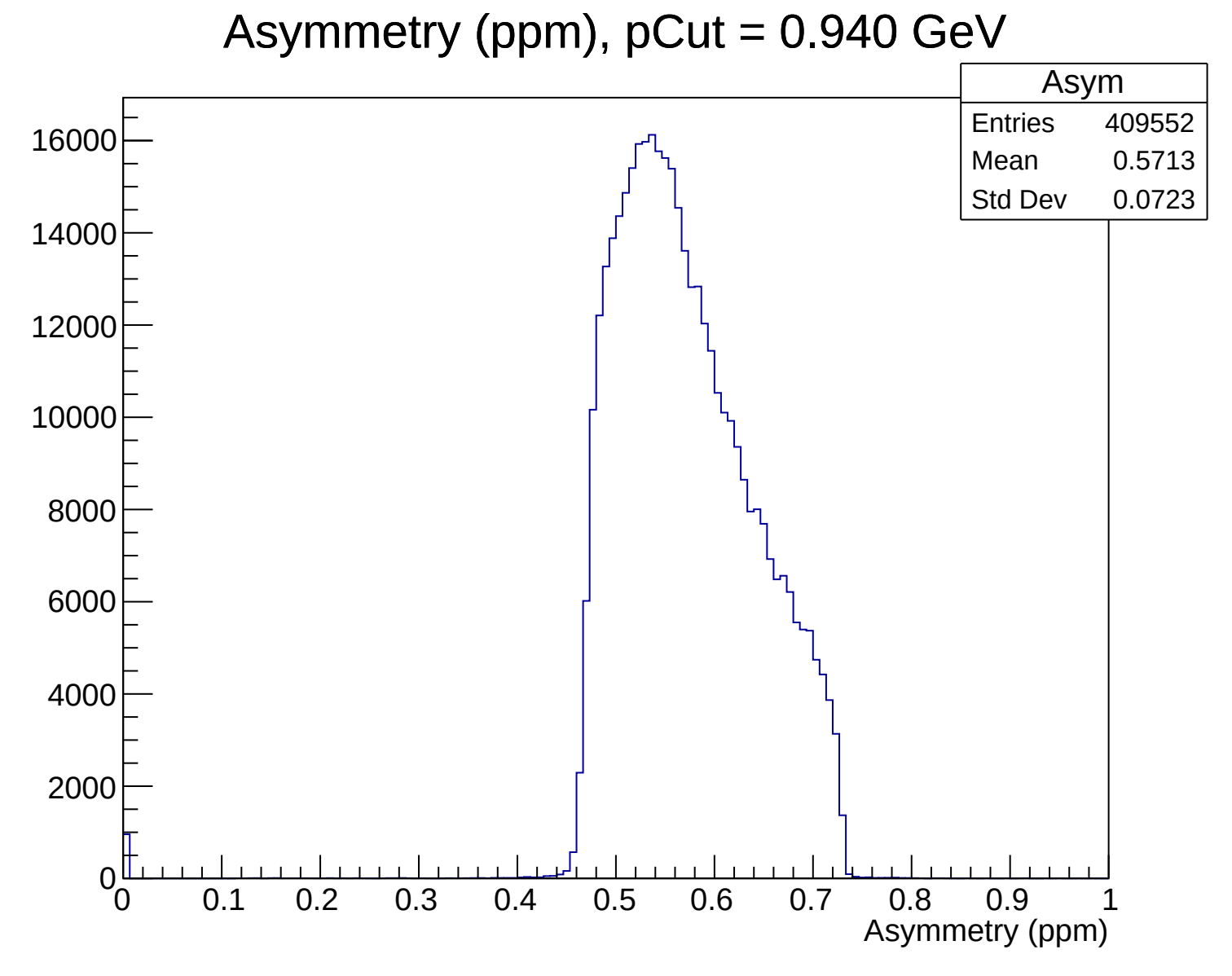

Stretched Asym. (ppm), pCut = 0.939 GeV
SAsym
Entries 421543
Mean 0.5582
Std Dev 0.06852
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

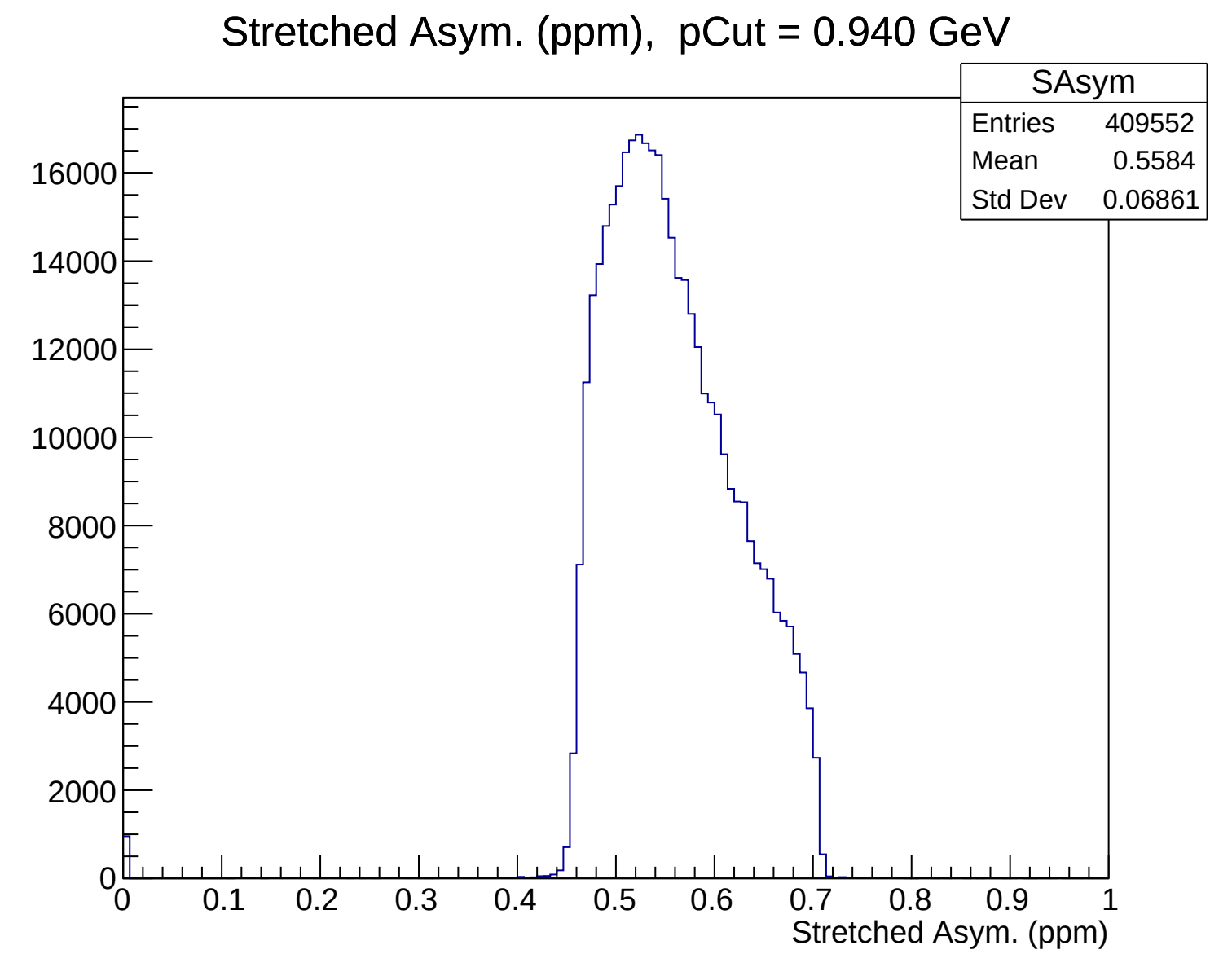

Q^2 (GeV/c)^2, pCut = 0.939 GeV
Q2
Entries 421543
Mean 0.006302
Std Dev 0.001198
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

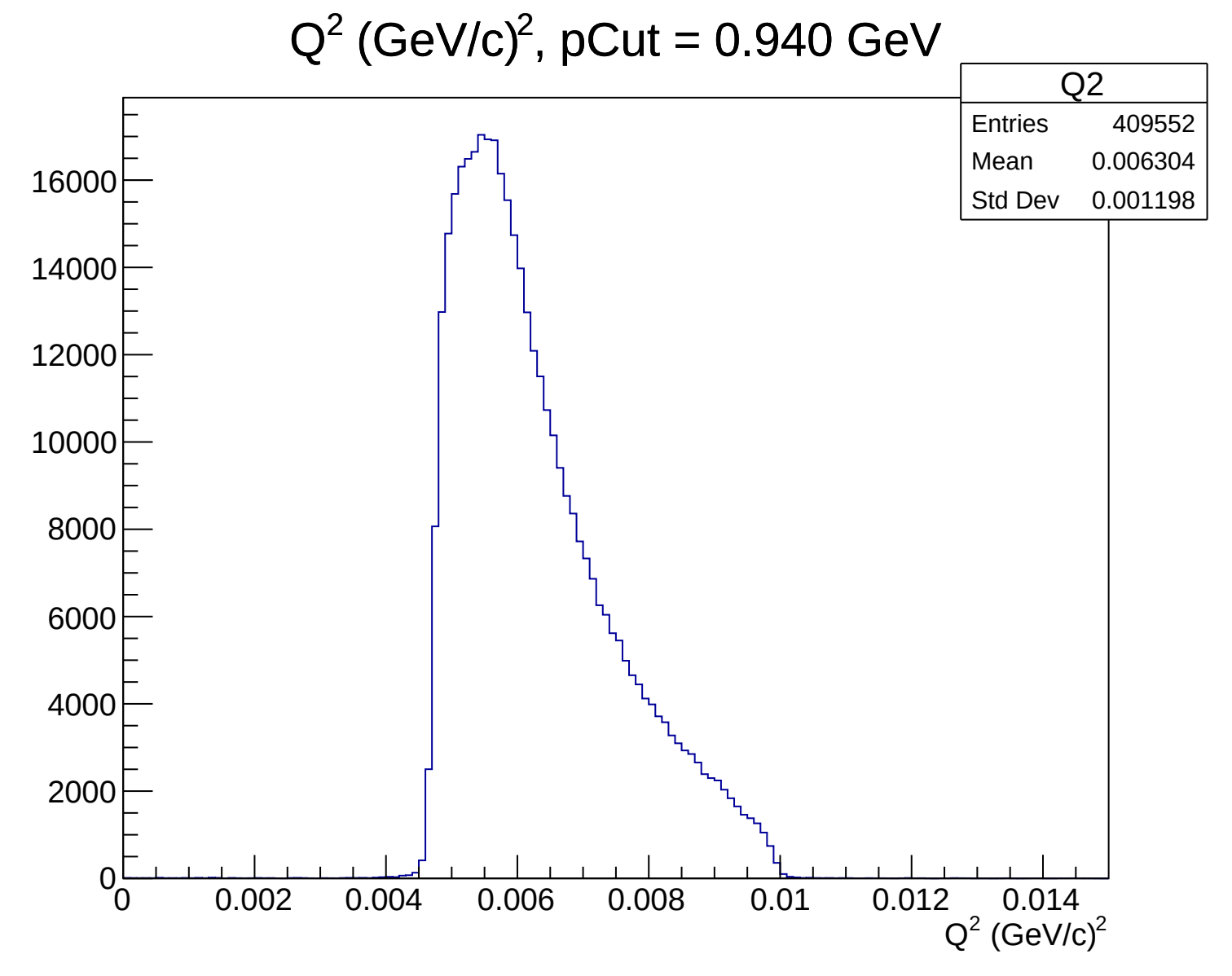

Sensitivity, pCut = 0.939 GeV
sens
Entries 421543
Mean 0.02217
Std Dev 0.003809
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

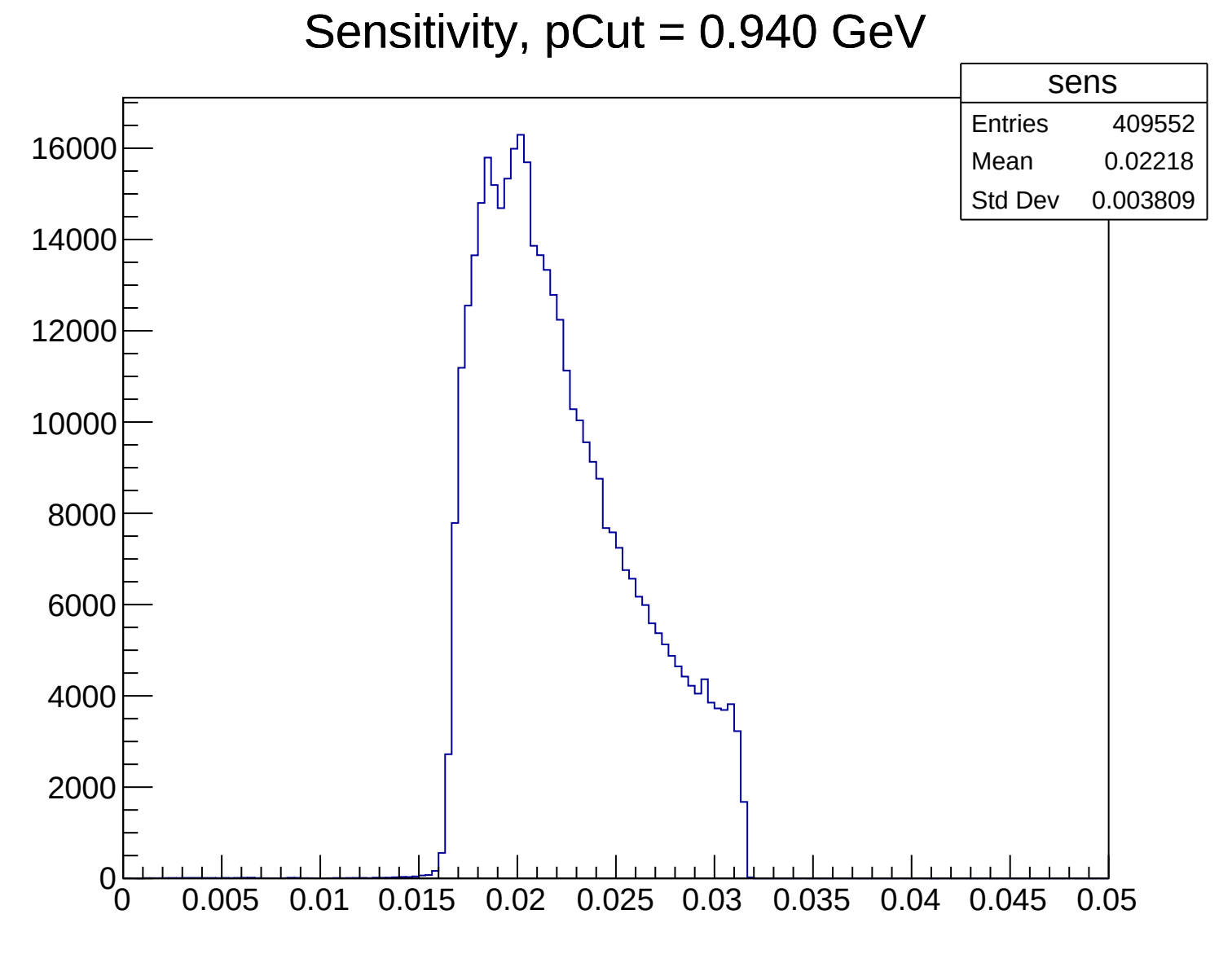

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9400 GeV
R.gold.p (GeV)

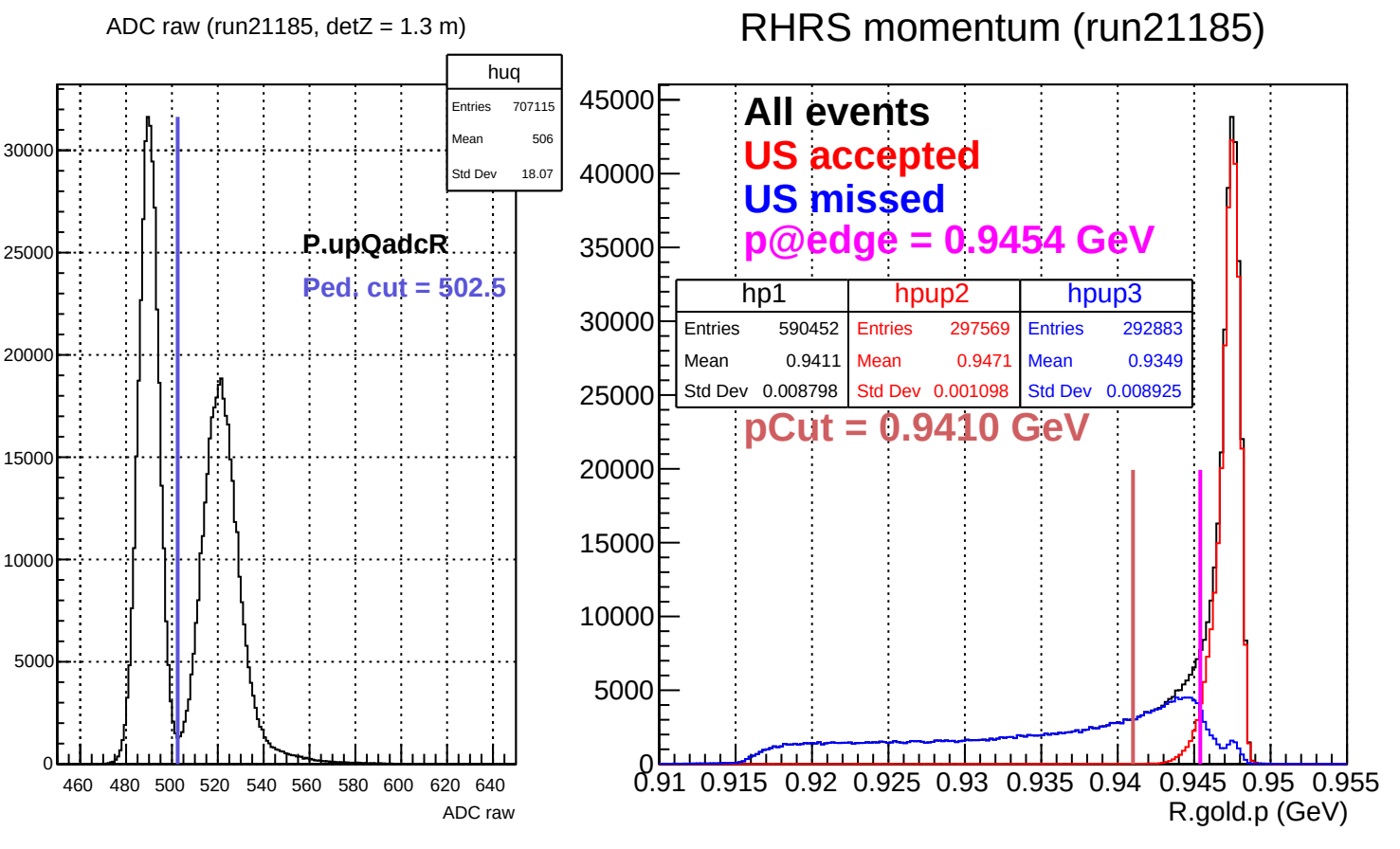

θlab (deg), pCut = 0.940 GeV
Theta
Entries 409552
Mean 4.78
Std Dev 0.4429
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

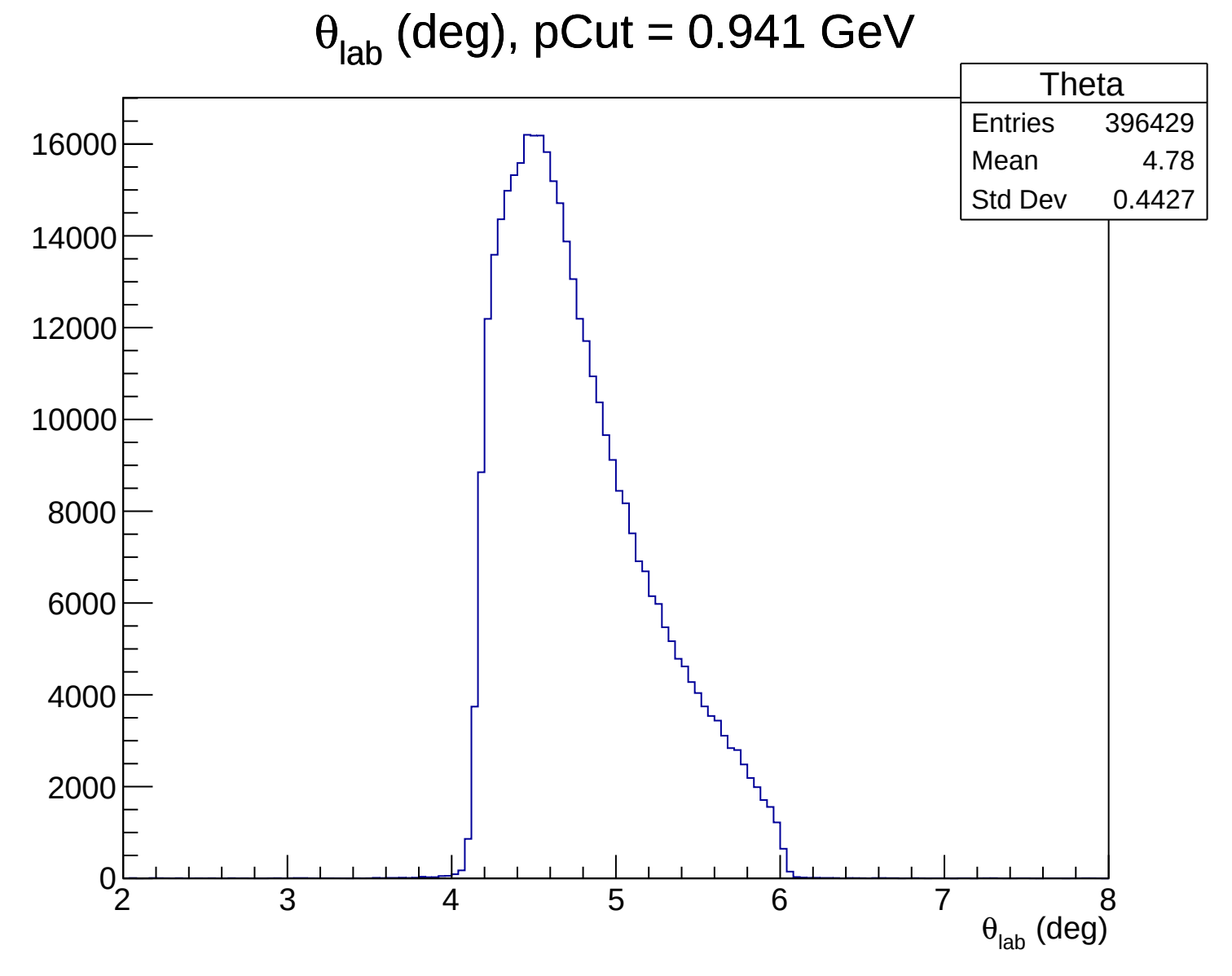

Asymmetry (ppm), pCut = 0.940 GeV
Asym
Entries 409552
Mean 0.5713
Std Dev 0.0723
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

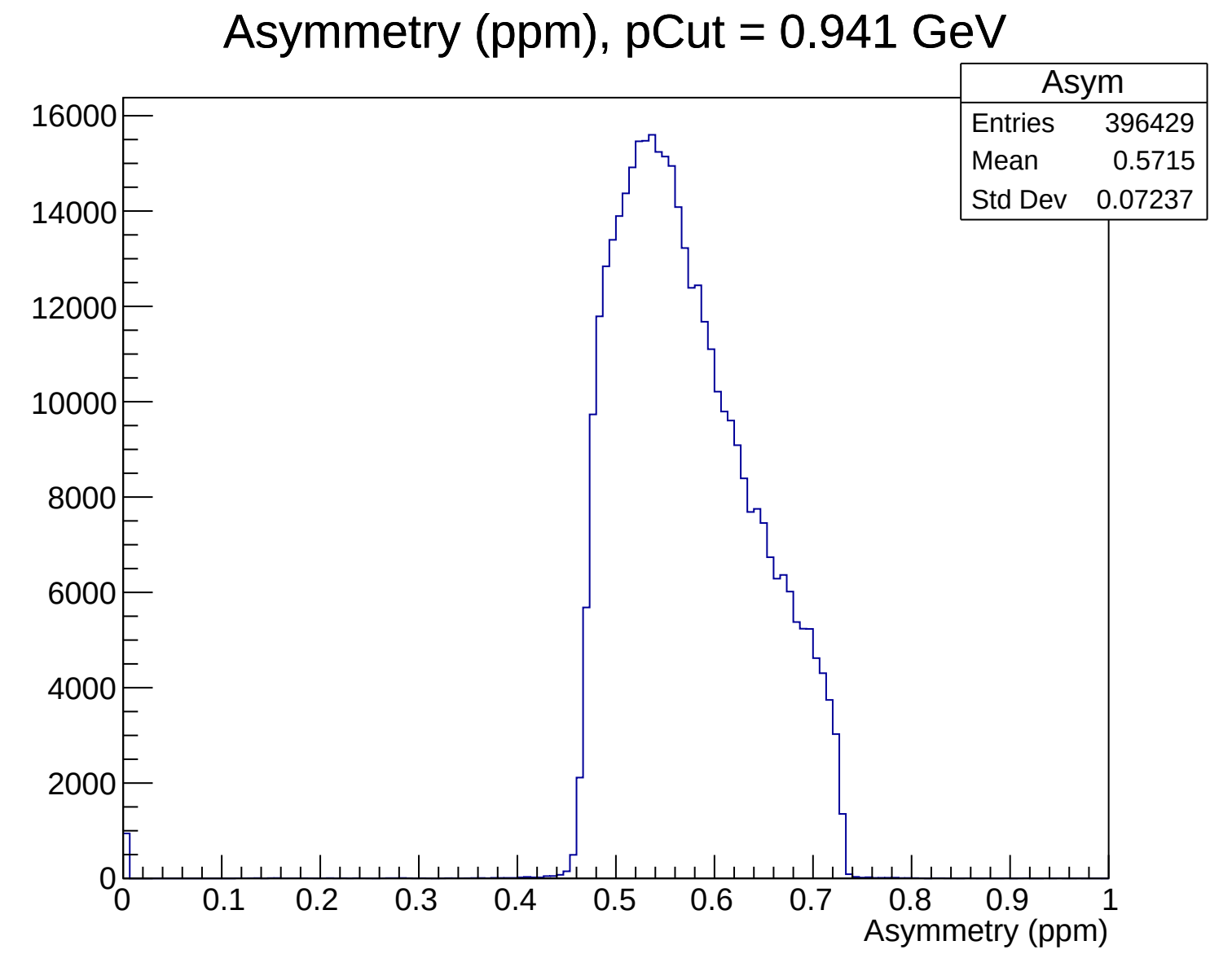

Stretched Asym. (ppm), pCut = 0.940 GeV
SAsym
Entries 409552
Mean 0.5584
Std Dev 0.06861
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

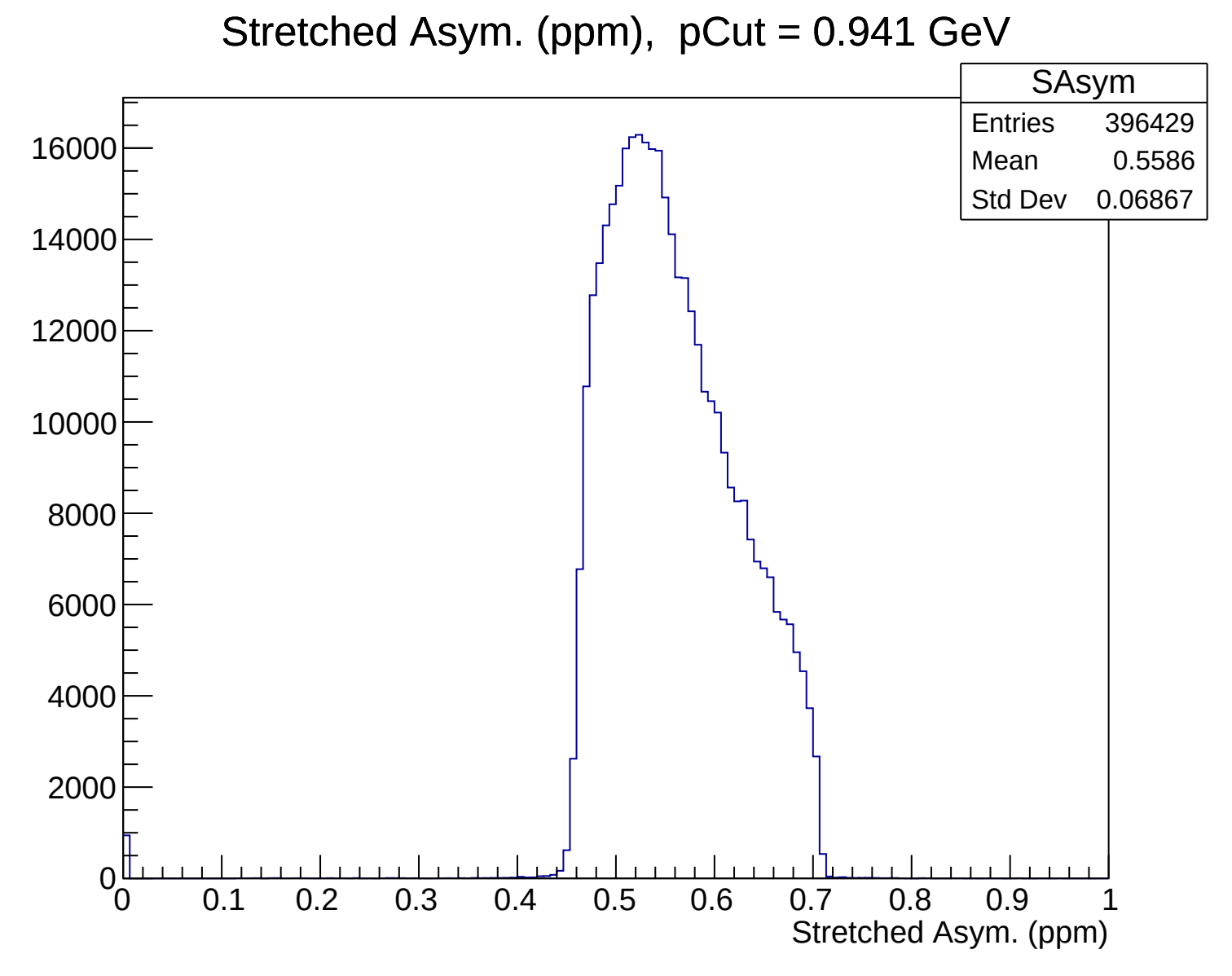

Q^2 (GeV/c)^2, pCut = 0.940 GeV
Q2
Entries 409552
Mean 0.006304
Std Dev 0.001198
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

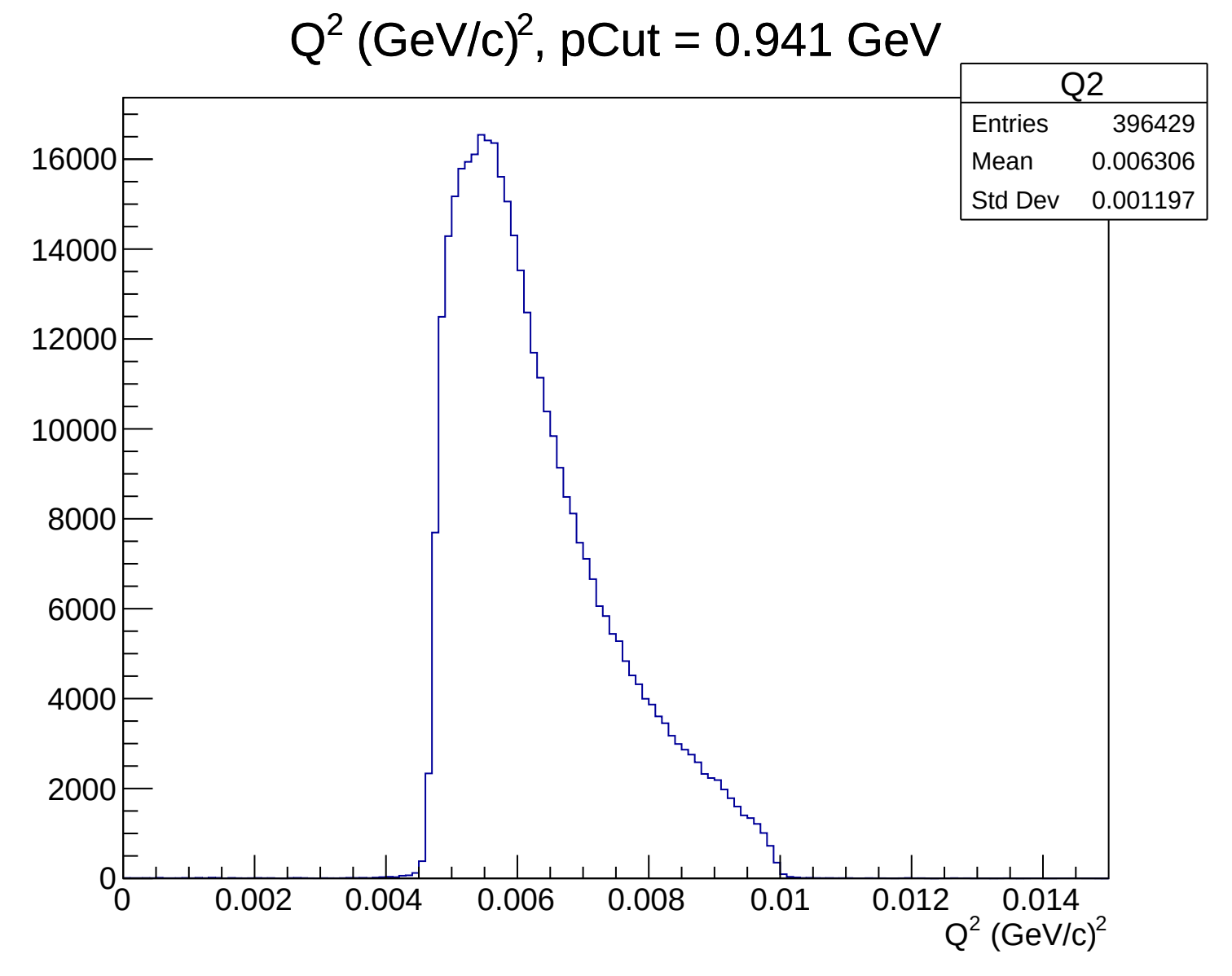

Sensitivity, pCut = 0.940 GeV
sens
Entries 409552
Mean 0.02218
Std Dev 0.003809
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

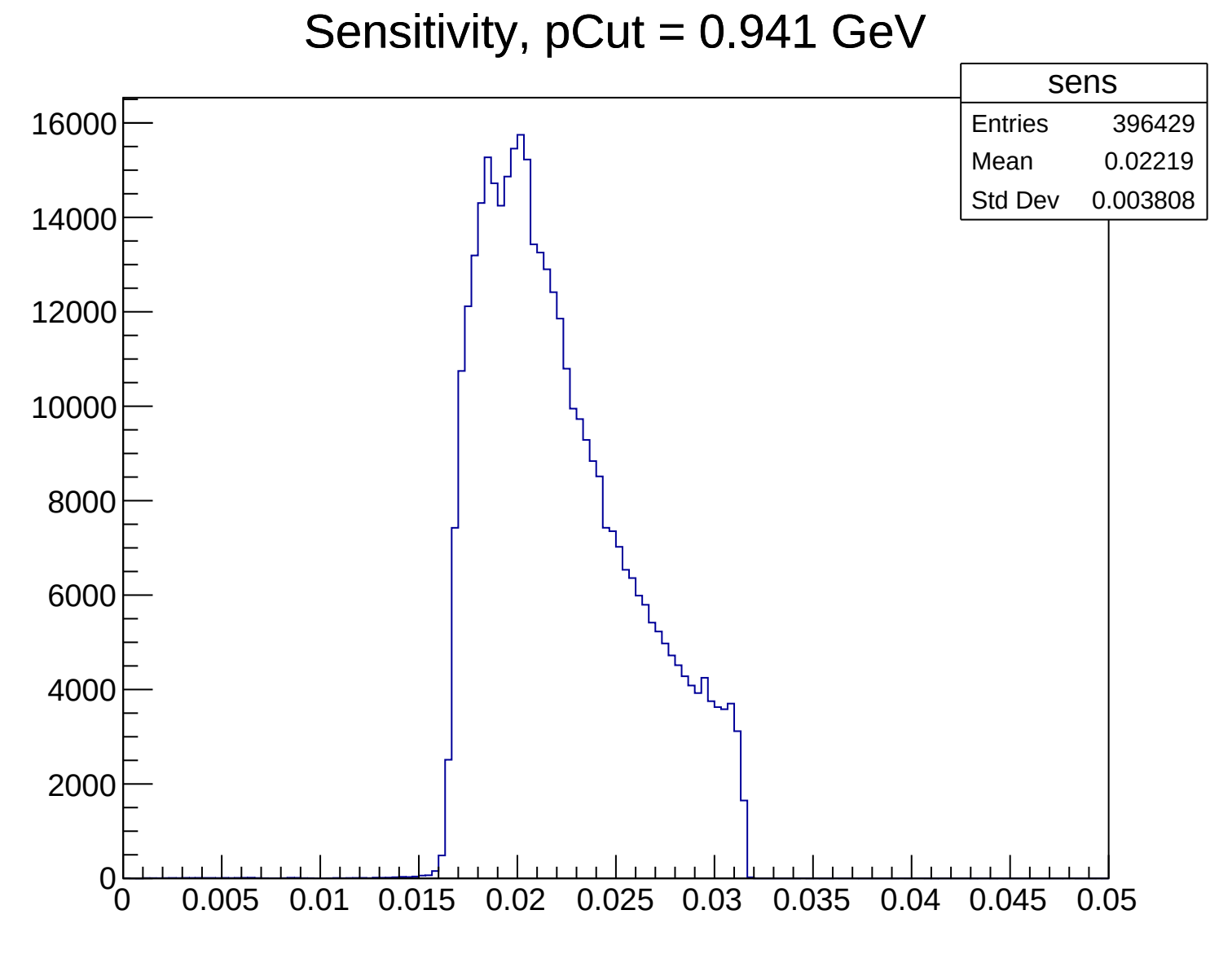

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9410 GeV
R.gold.p (GeV)

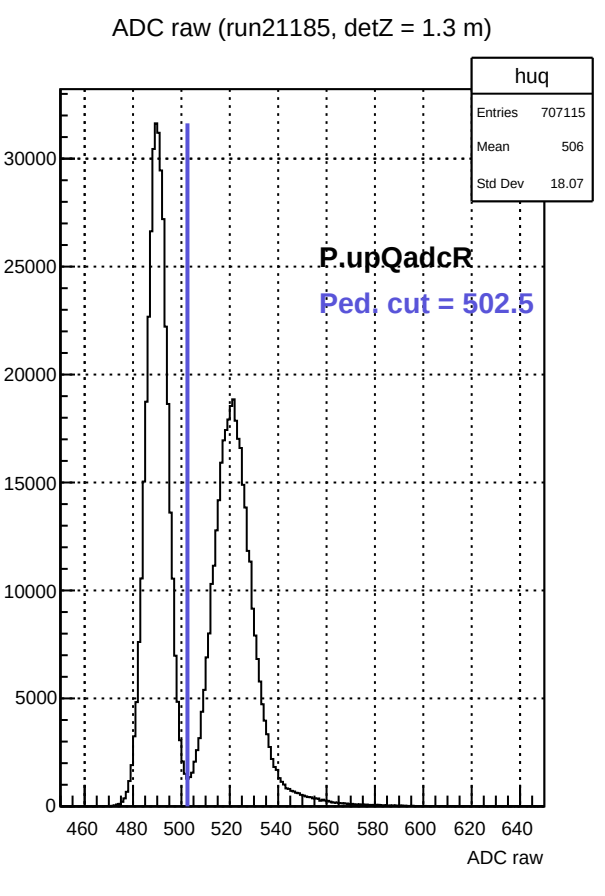

θlab (deg), pCut = 0.941 GeV
Theta
Entries 396429
Mean 4.78
Std Dev 0.4427
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

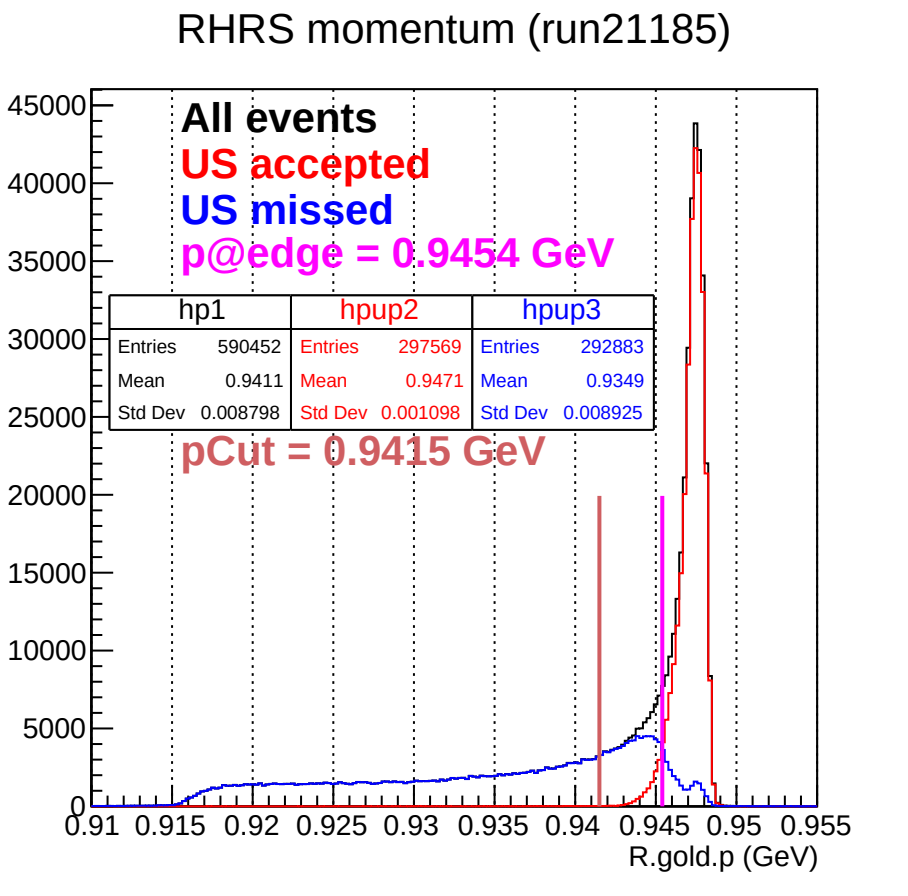

Asymmetry (ppm), pCut = 0.941 GeV
Asym
Entries 396429
Mean 0.5715
Std Dev 0.07237
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

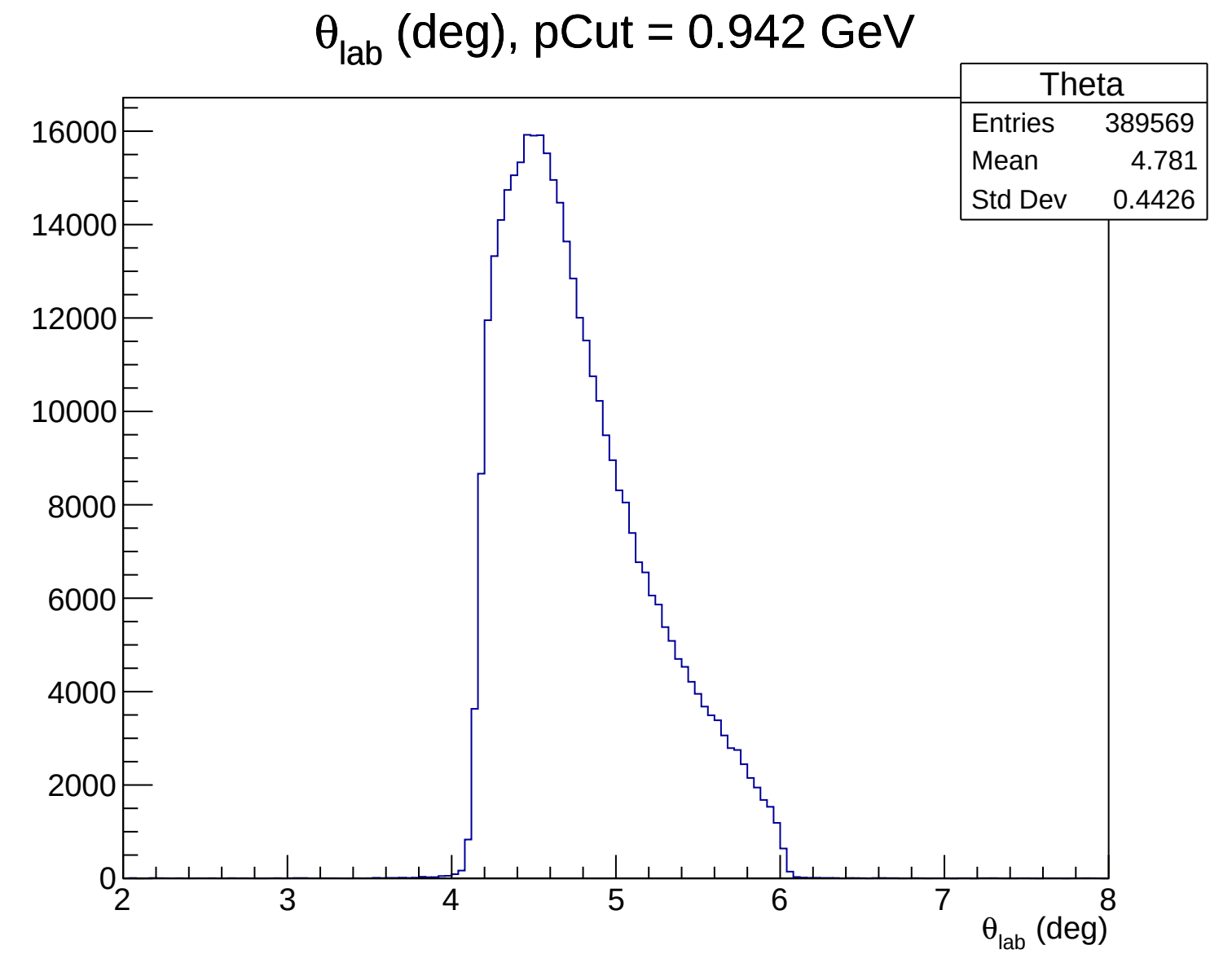

Stretched Asym. (ppm), pCut = 0.941 GeV
SAsym
Entries 396429
Mean 0.5586
Std Dev 0.06867
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

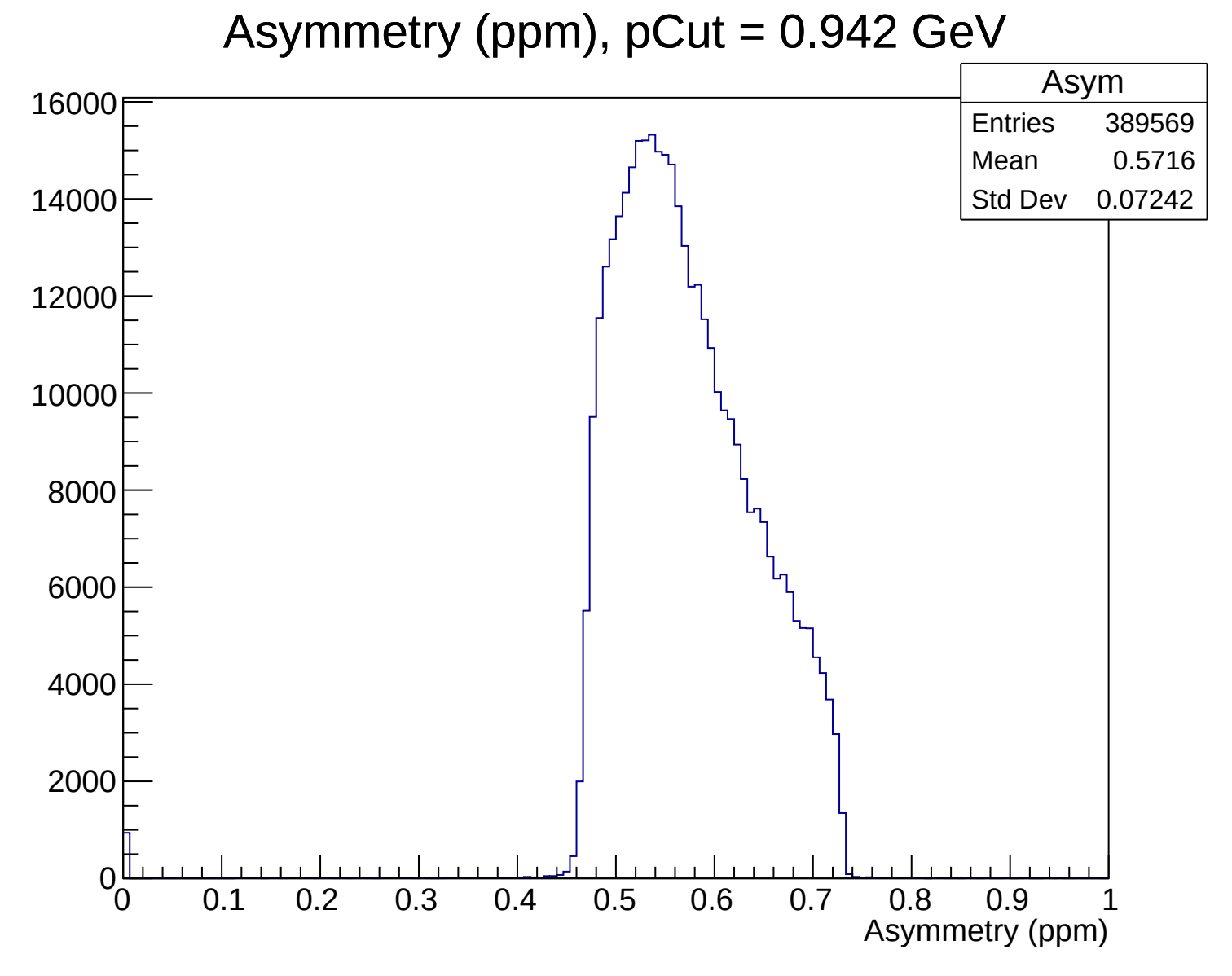

Q^2 (GeV/c)^2, pCut = 0.941 GeV
Q2
Entries 396429
Mean 0.006306
Std Dev 0.001197
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

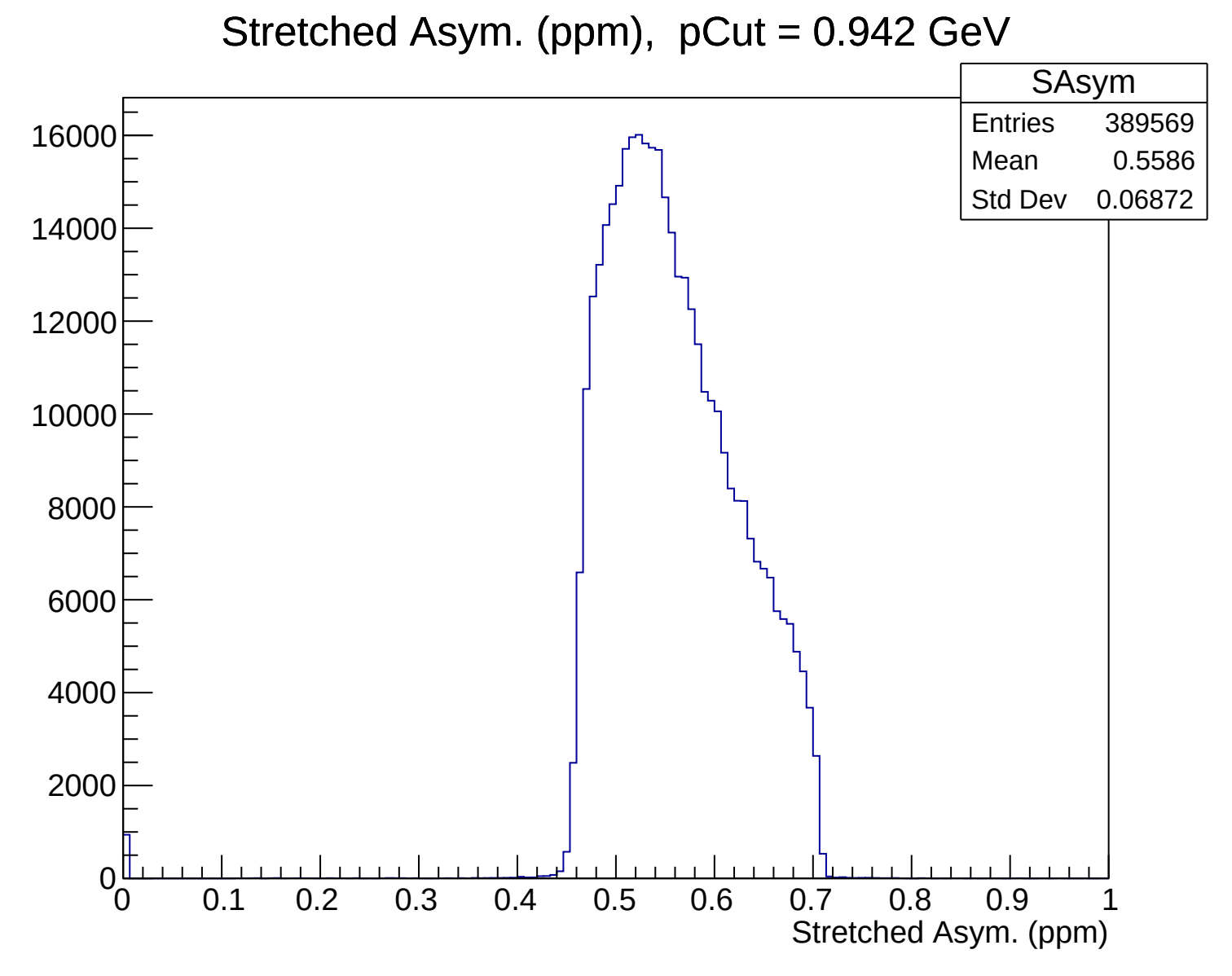

Sensitivity, pCut = 0.941 GeV
sens
Entries 396429
Mean 0.02219
Std Dev 0.003808
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

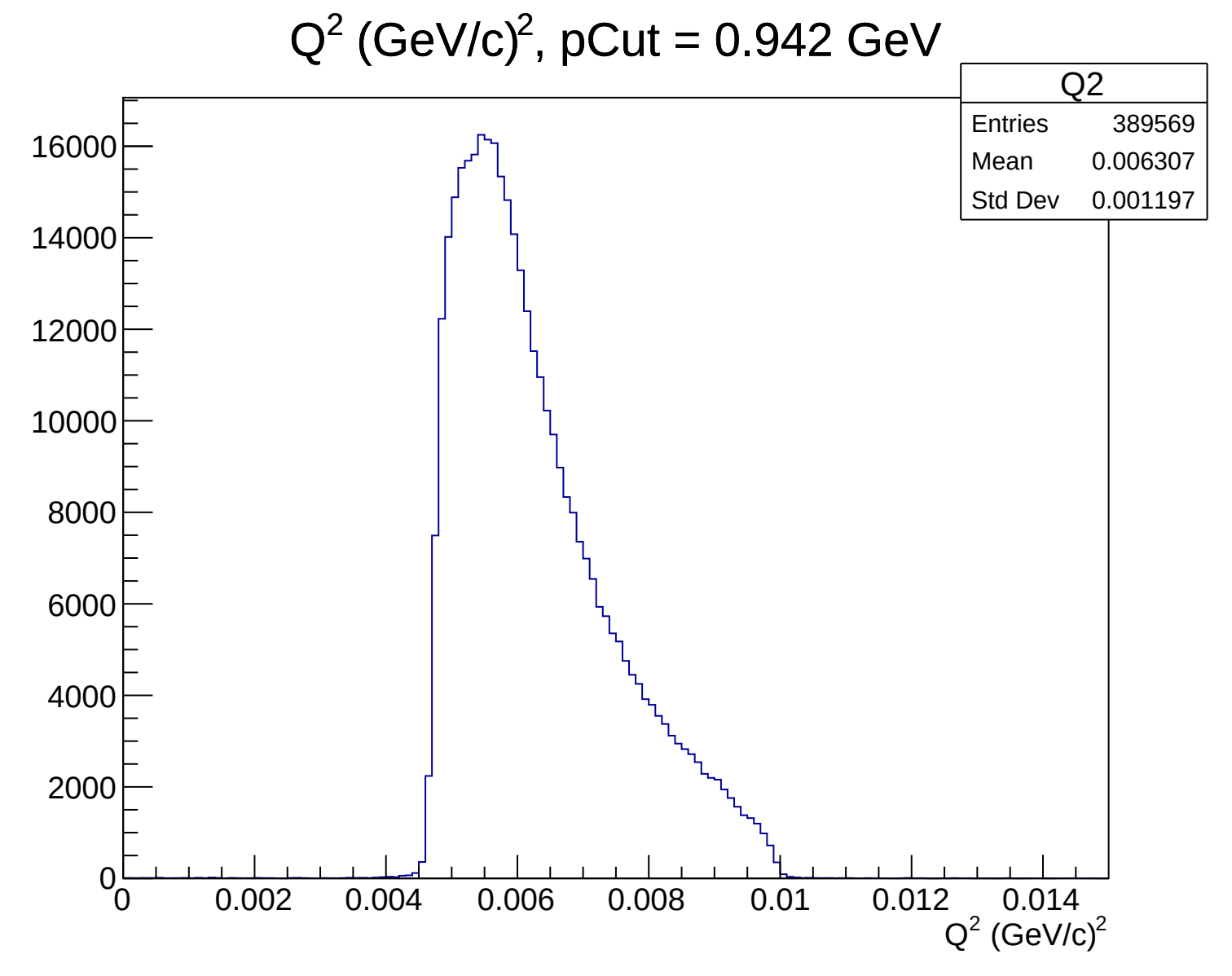

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
30000
25000
20000
15000
10000
5000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

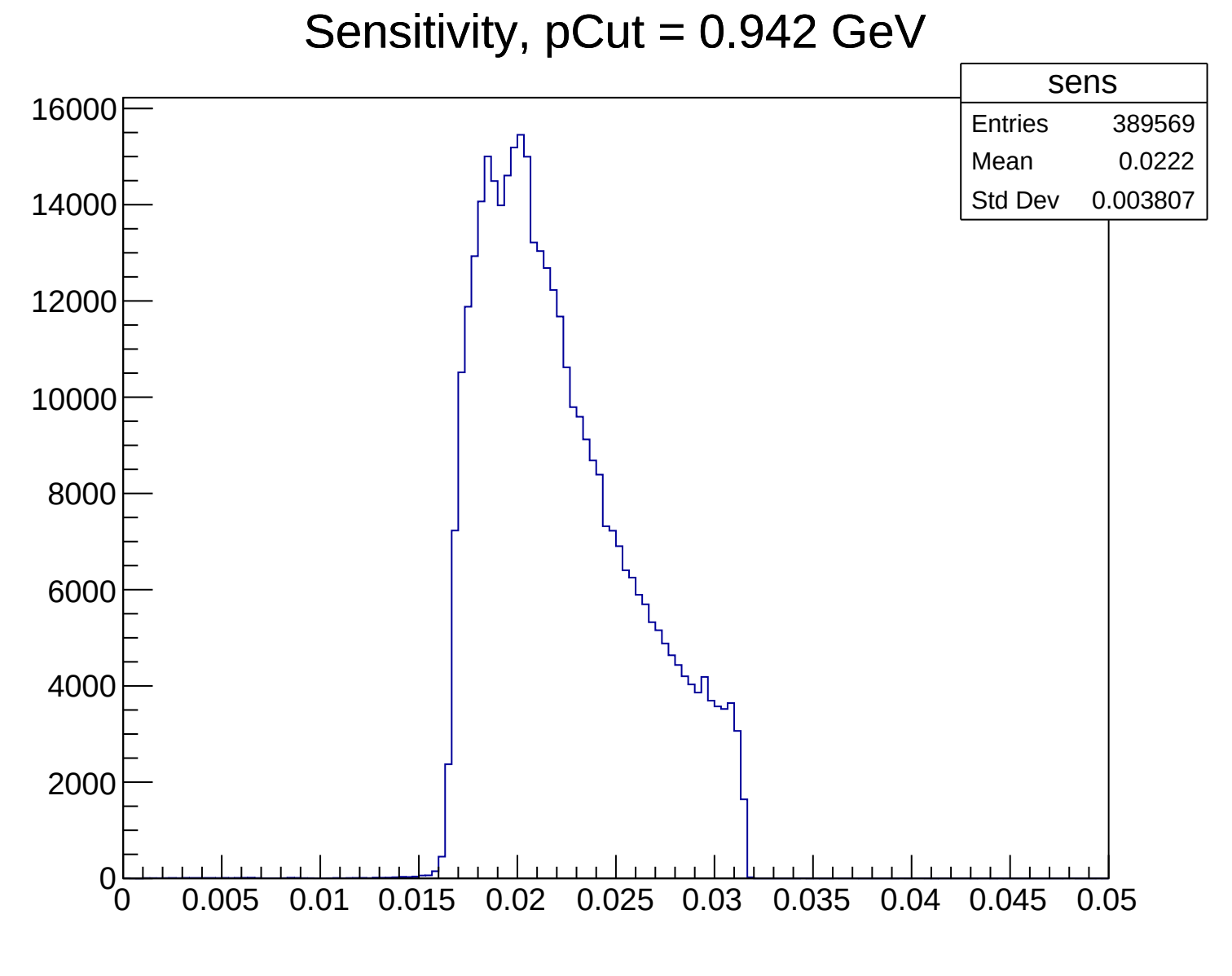

RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9415 GeV
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

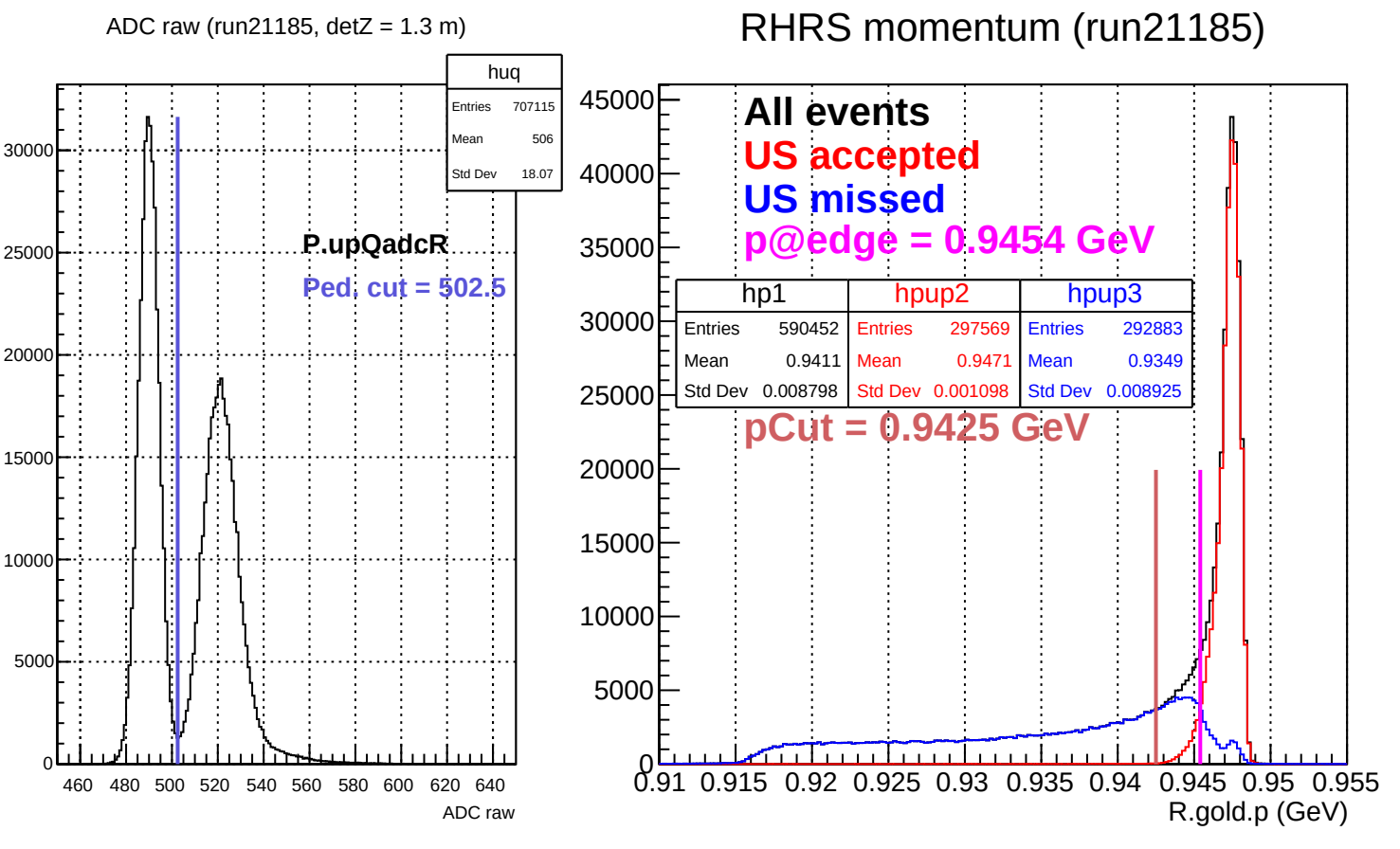

θlab (deg), pCut = 0.942 GeV
Theta
Entries 389569
Mean 4.781
Std Dev 0.4426
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

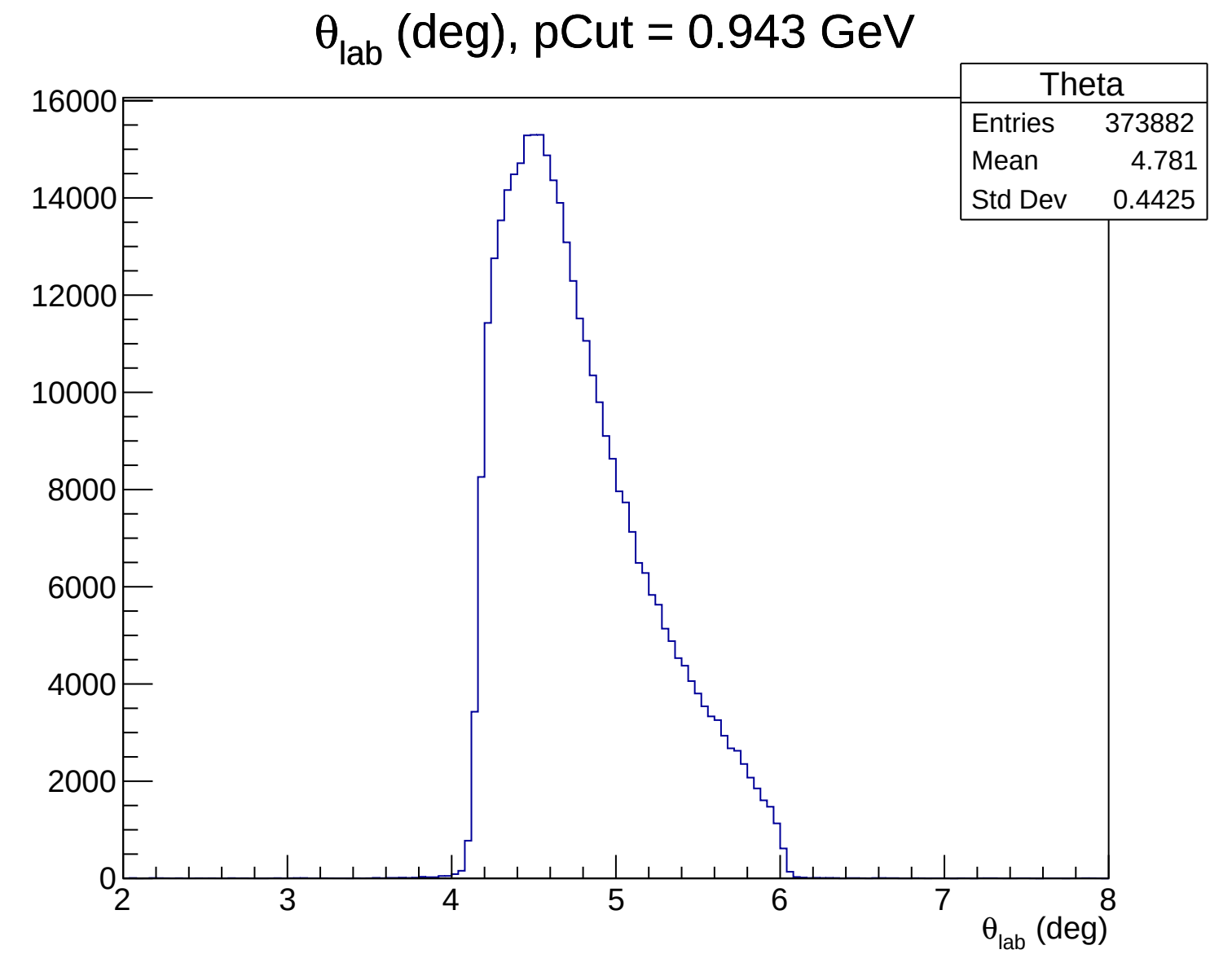

Asymmetry (ppm), pCut = 0.942 GeV
Asym
Entries 389569
Mean 0.5716
Std Dev 0.07242
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

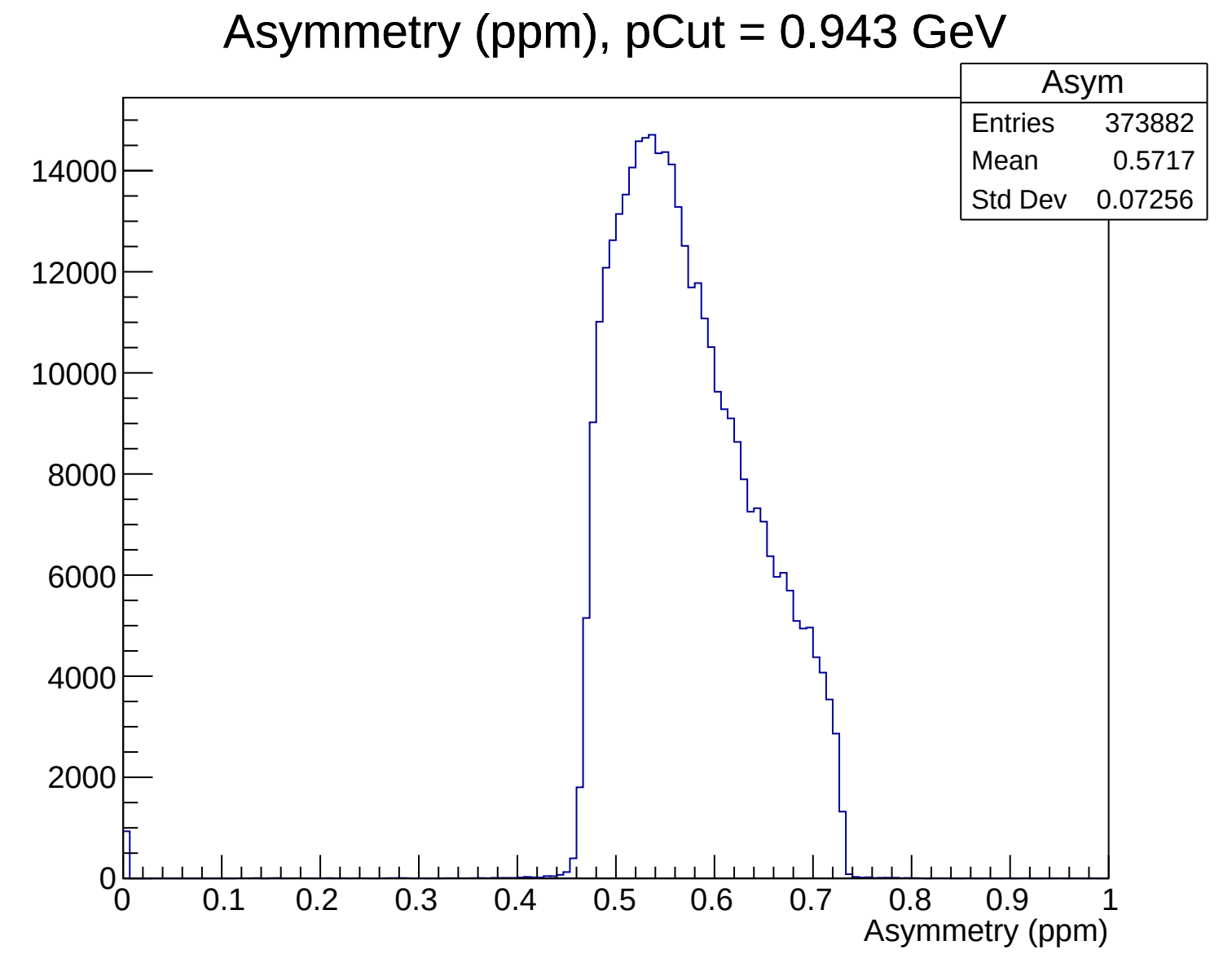

Stretched Asym. (ppm), pCut = 0.942 GeV
SAsym
Entries 389569
Mean 0.5586
Std Dev 0.06872
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

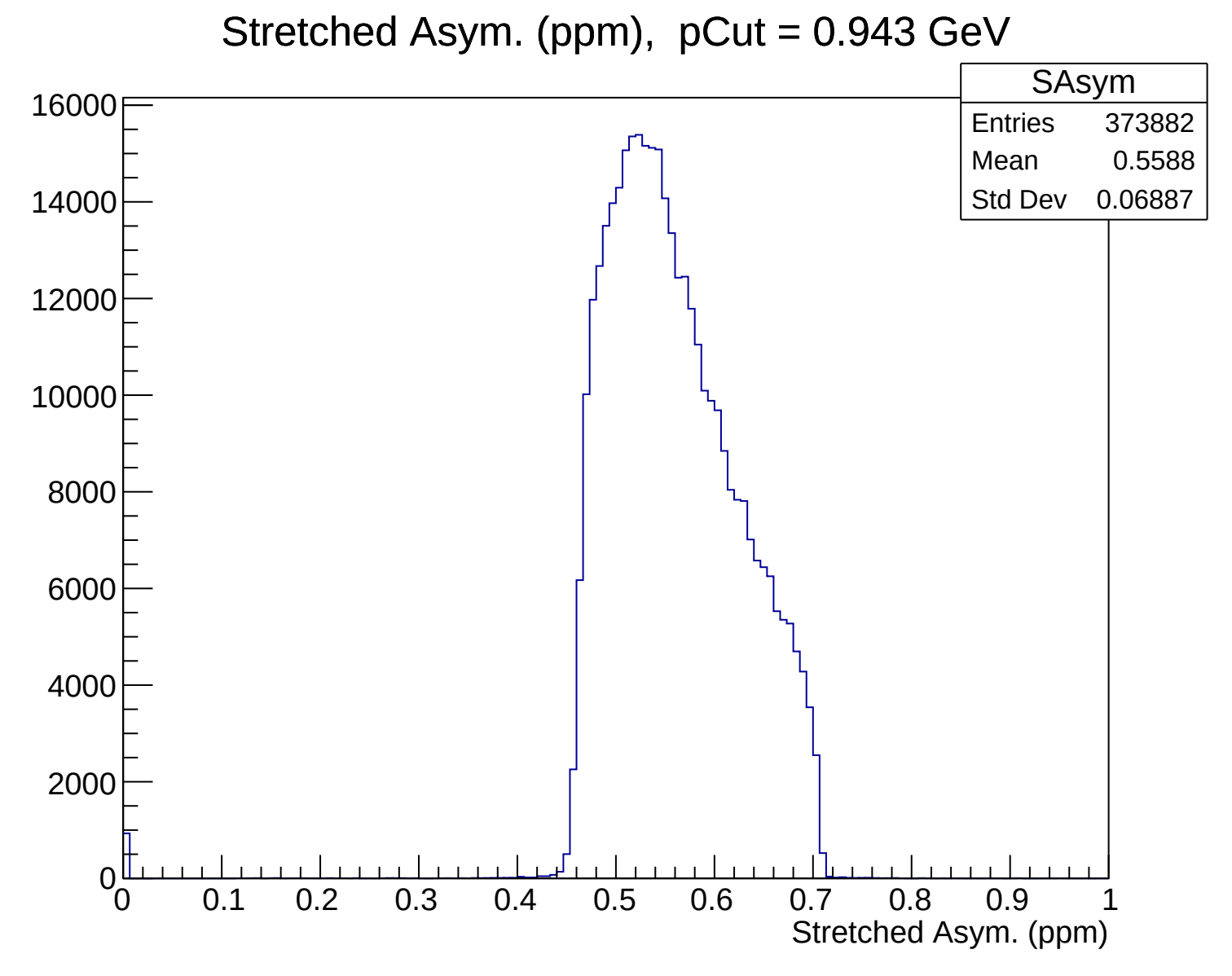

Q^2 (GeV/c)^2, pCut = 0.942 GeV
Q2
Entries 389569
Mean 0.006307
Std Dev 0.001197
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

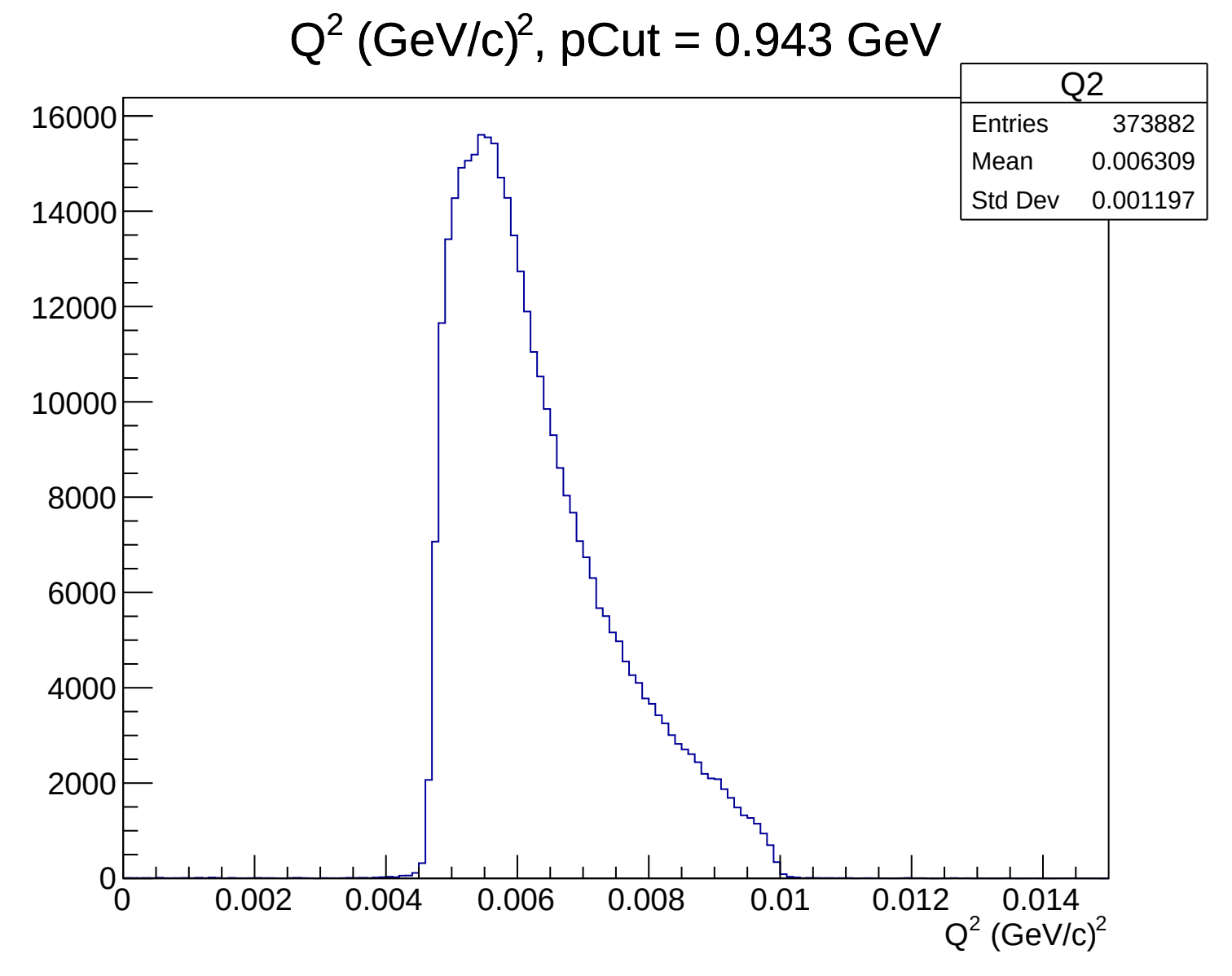

Sensitivity, pCut = 0.942 GeV
sens
Entries 389569
Mean 0.0222
Std Dev 0.003807
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

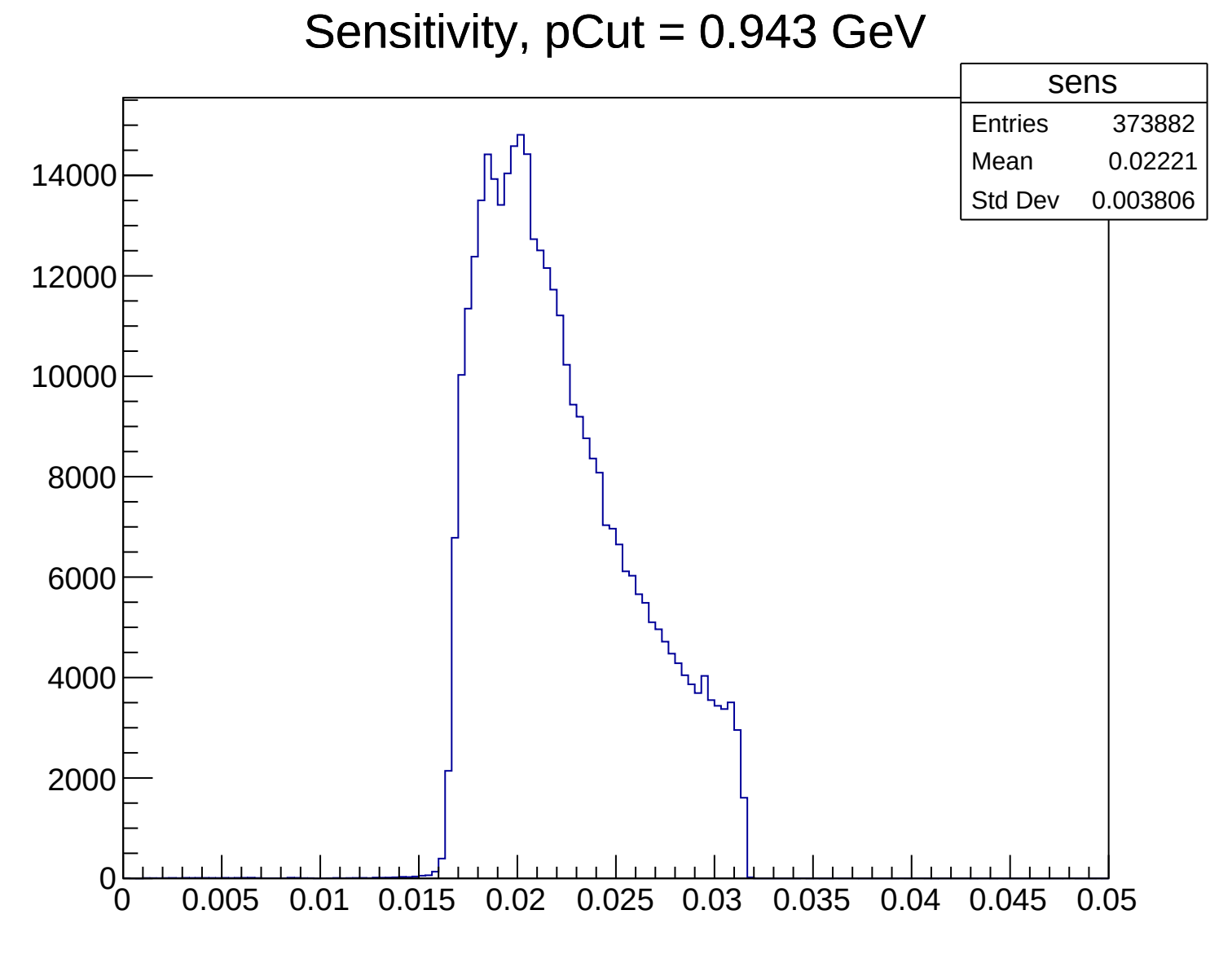

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9425 GeV
R.gold.p (GeV)

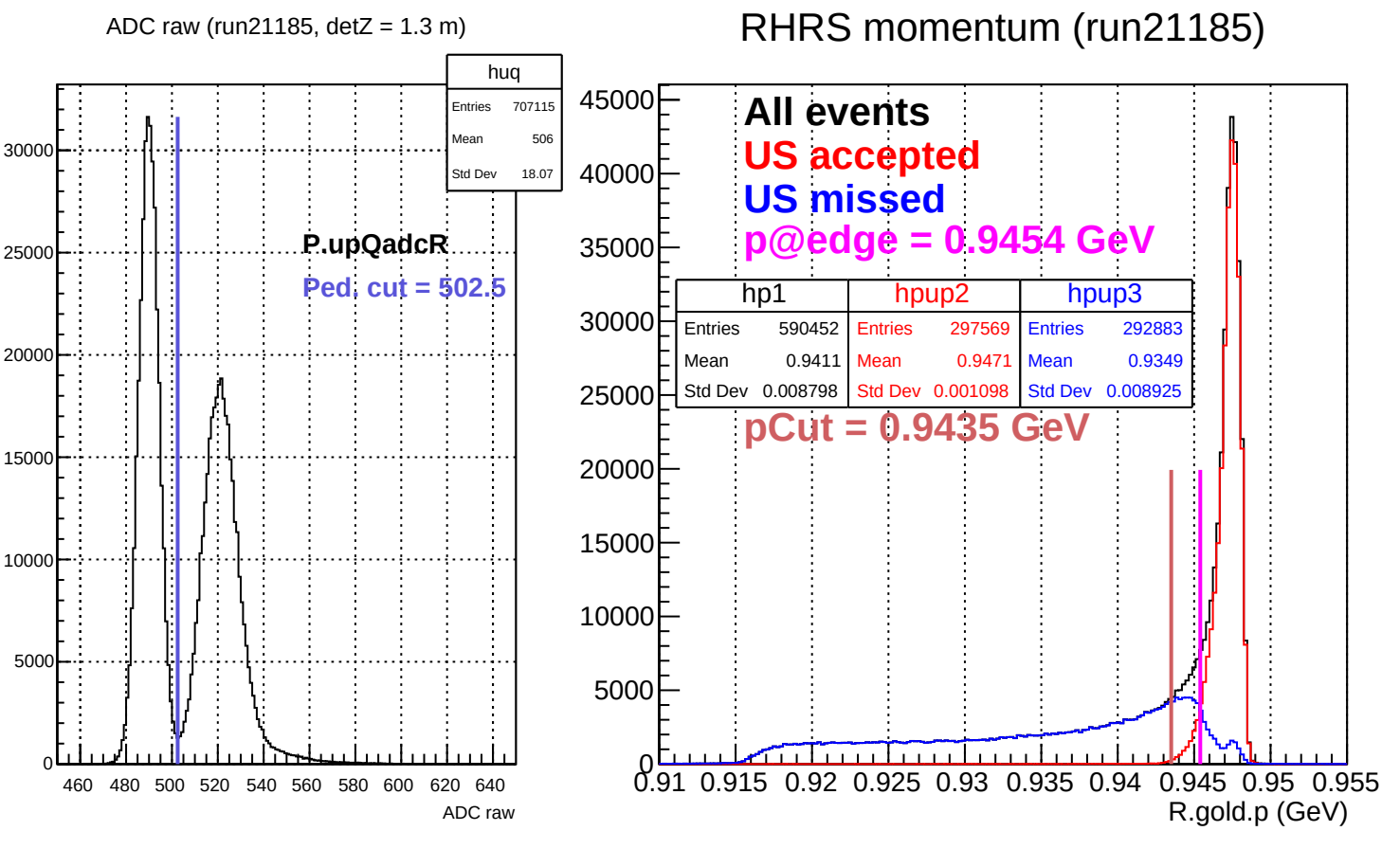

θlab (deg), pCut = 0.943 GeV
Theta
Entries 373882
Mean 4.781
Std Dev 0.4425
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

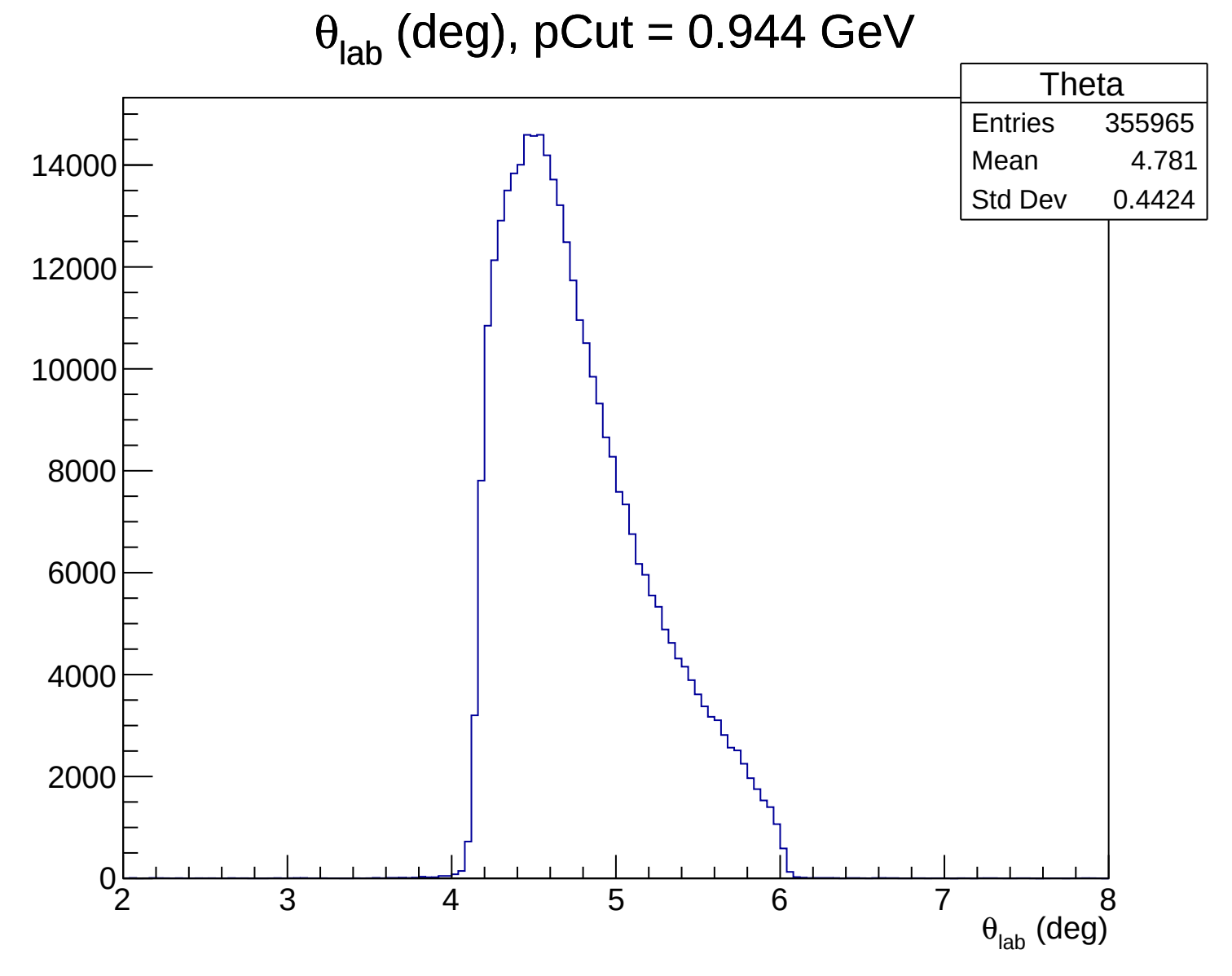

Asymmetry (ppm), pCut = 0.943 GeV
Asym
Entries 373882
Mean 0.5717
Std Dev 0.07256
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

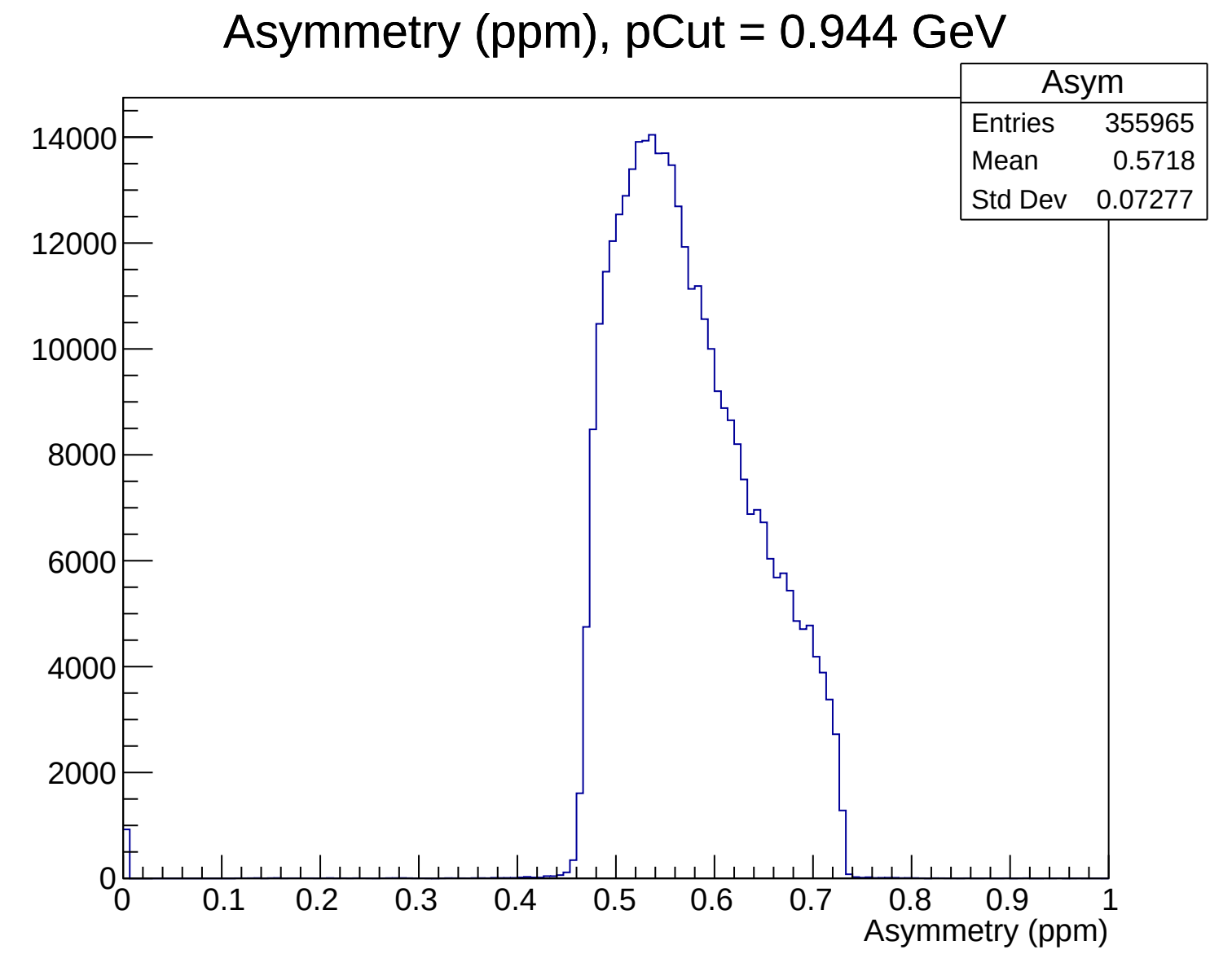

Stretched Asym. (ppm), pCut = 0.943 GeV
SAsym
Entries 373882
Mean 0.5588
Std Dev 0.06887
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

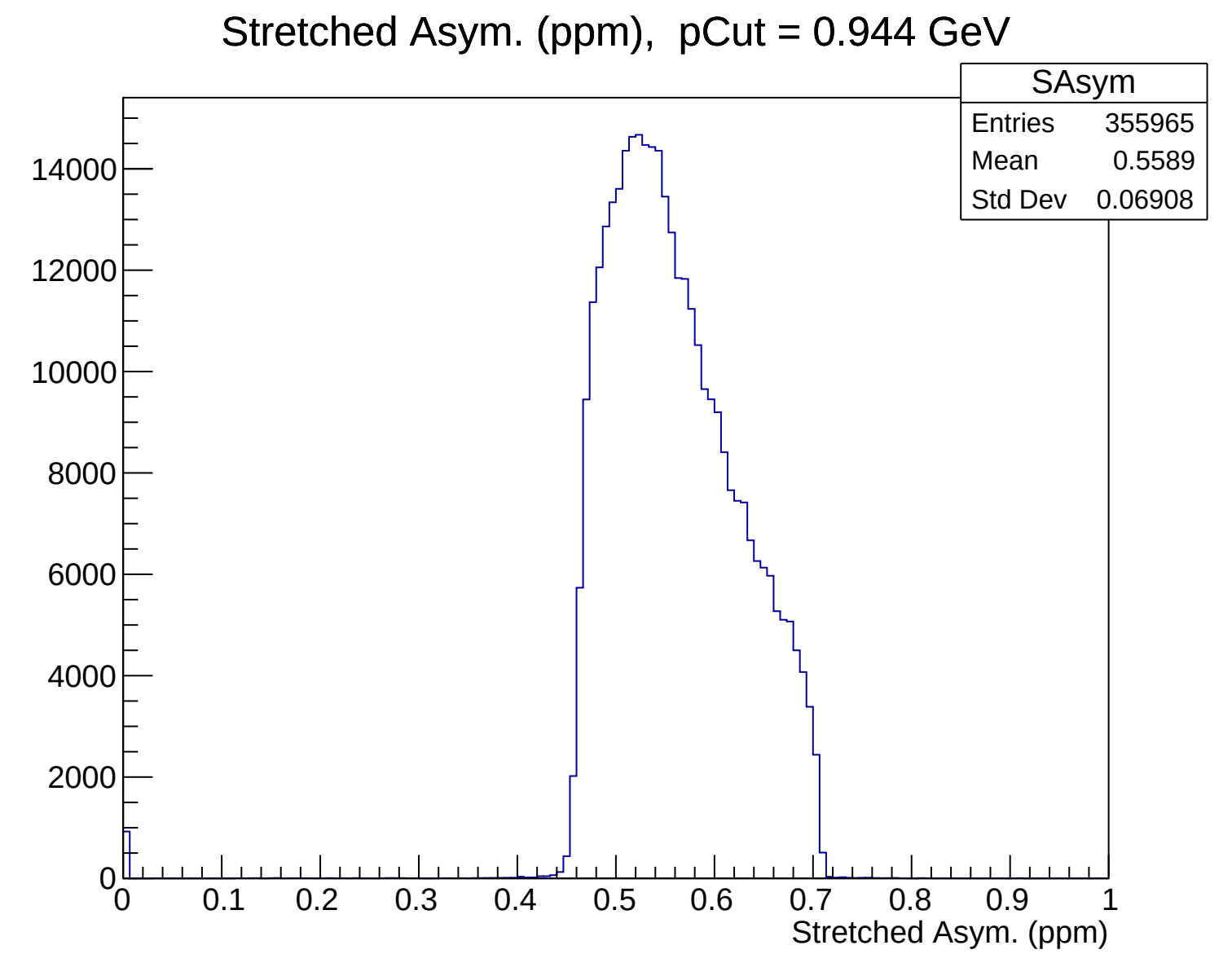

Q^2 (GeV/c)^2, pCut = 0.943 GeV
Q2
Entries 373882
Mean 0.006309
Std Dev 0.001197
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

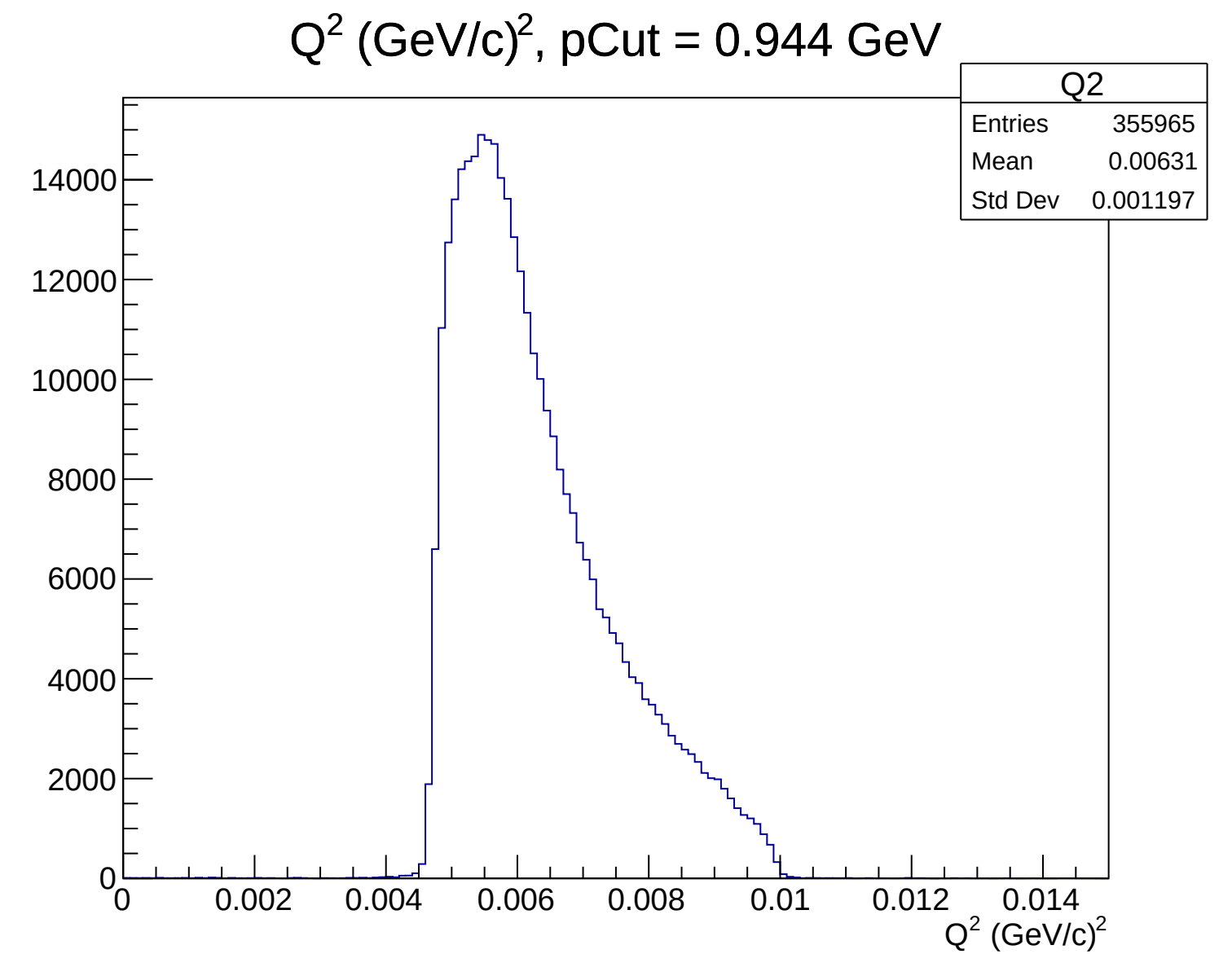

Sensitivity, pCut = 0.943 GeV
sens
Entries 373882
Mean 0.02221
Std Dev 0.003806
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

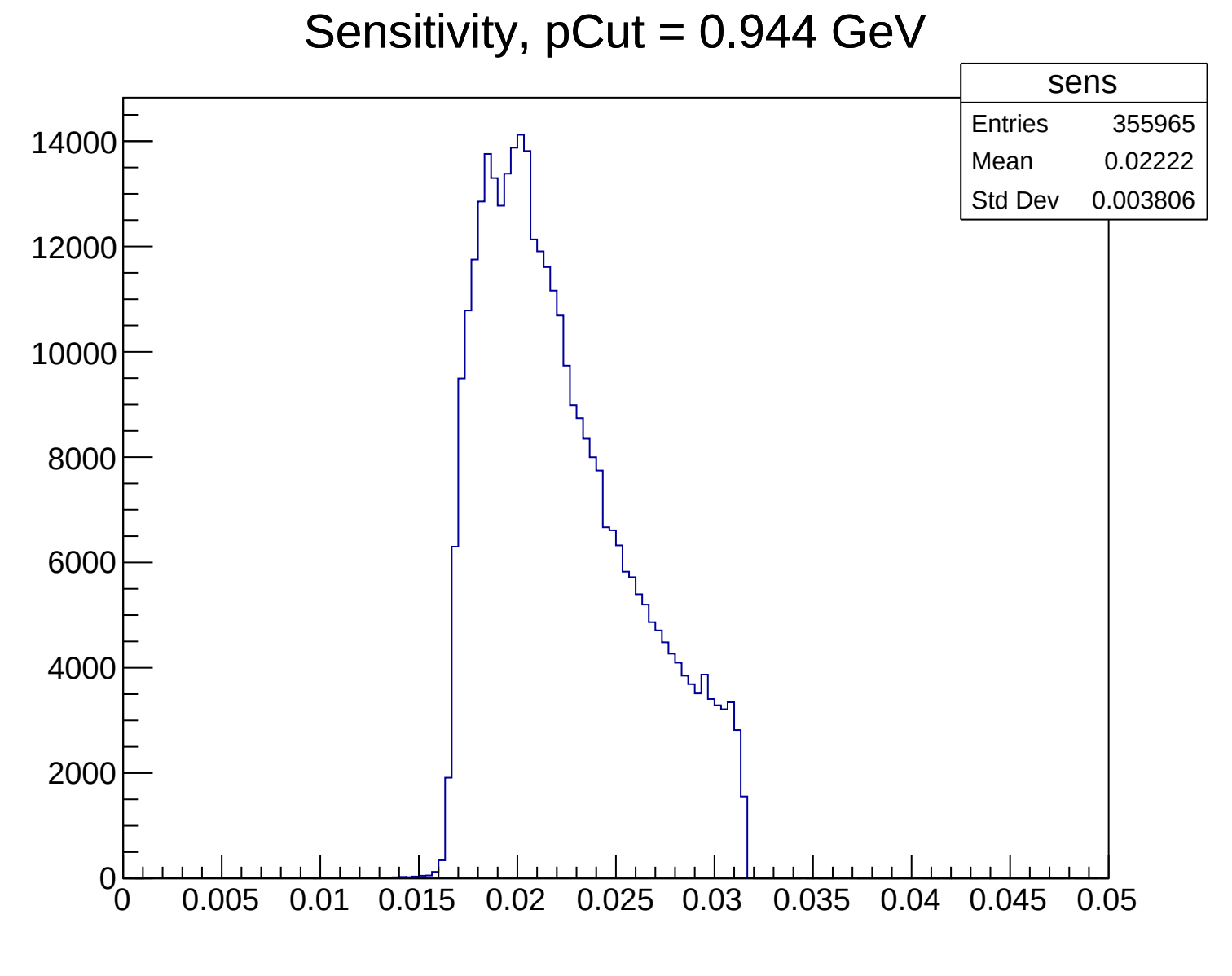

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9435 GeV
R.gold.p (GeV)

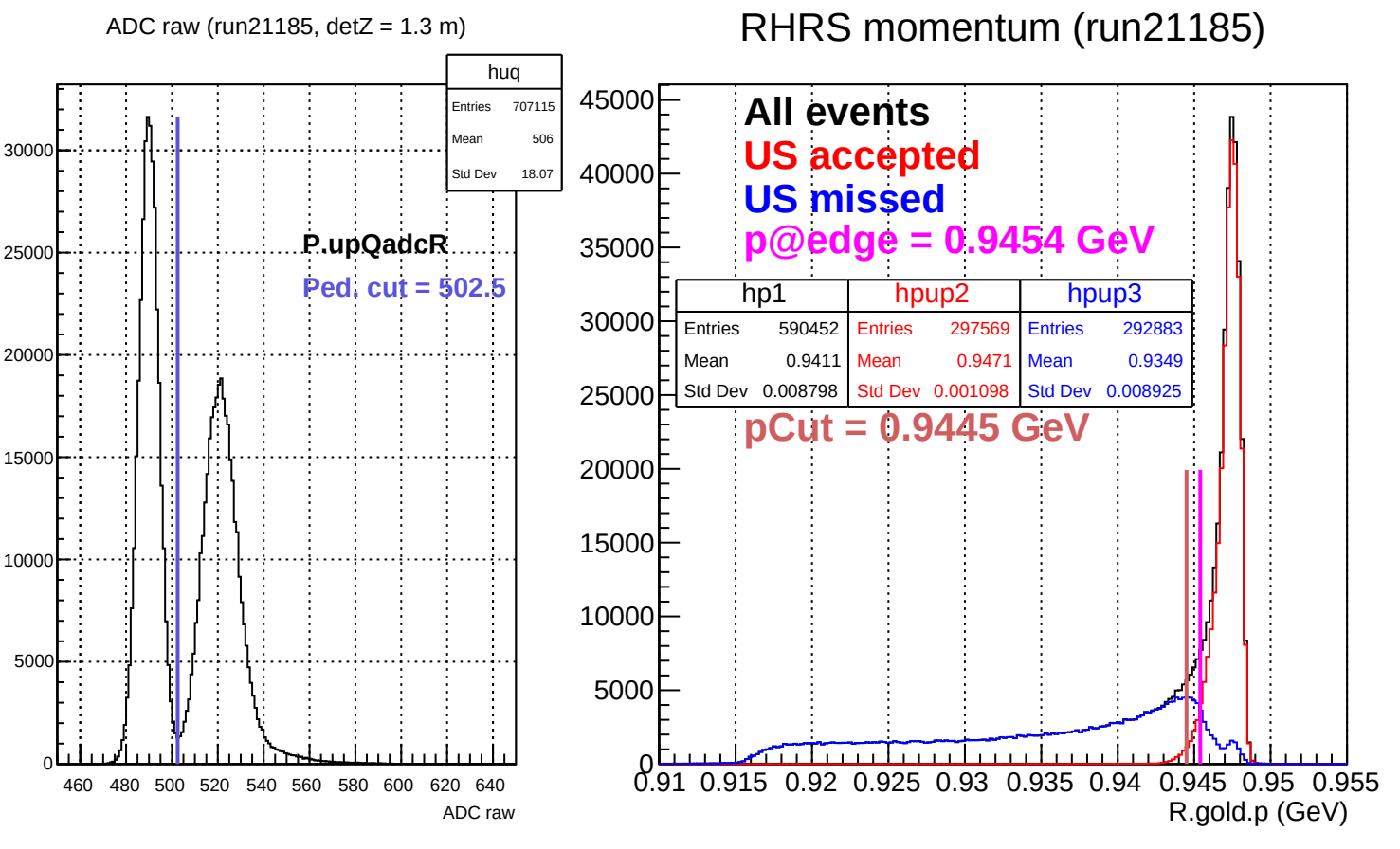

θlab (deg), pCut = 0.944 GeV
Theta
Entries 355965
Mean 4.781
Std Dev 0.4424
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

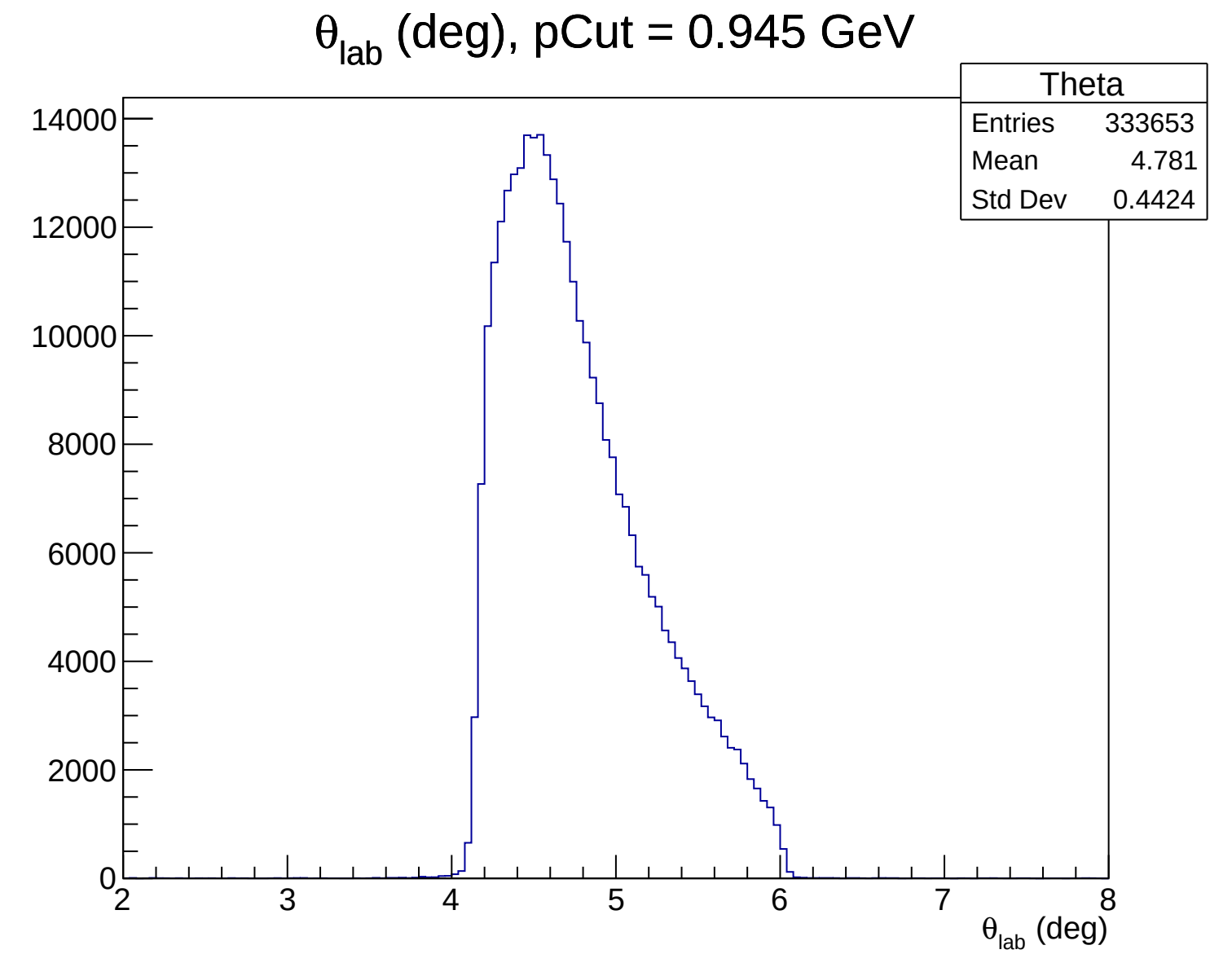

Asymmetry (ppm), pCut = 0.944 GeV
Asym
Entries 355965
Mean 0.5718
Std Dev 0.07277
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

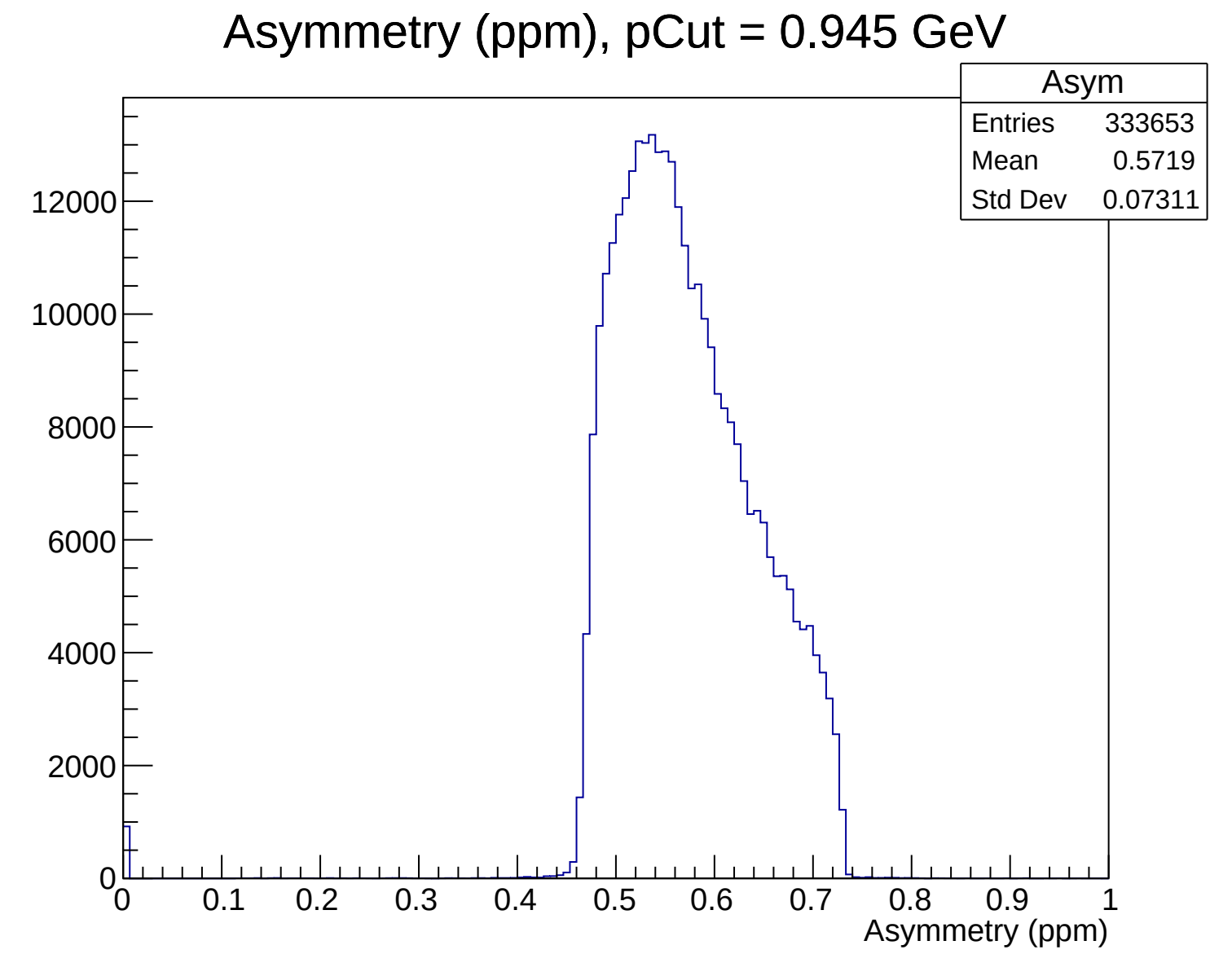

Stretched Asym. (ppm), pCut = 0.944 GeV
SAsym
Entries 355965
Mean 0.5589
Std Dev 0.06908
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

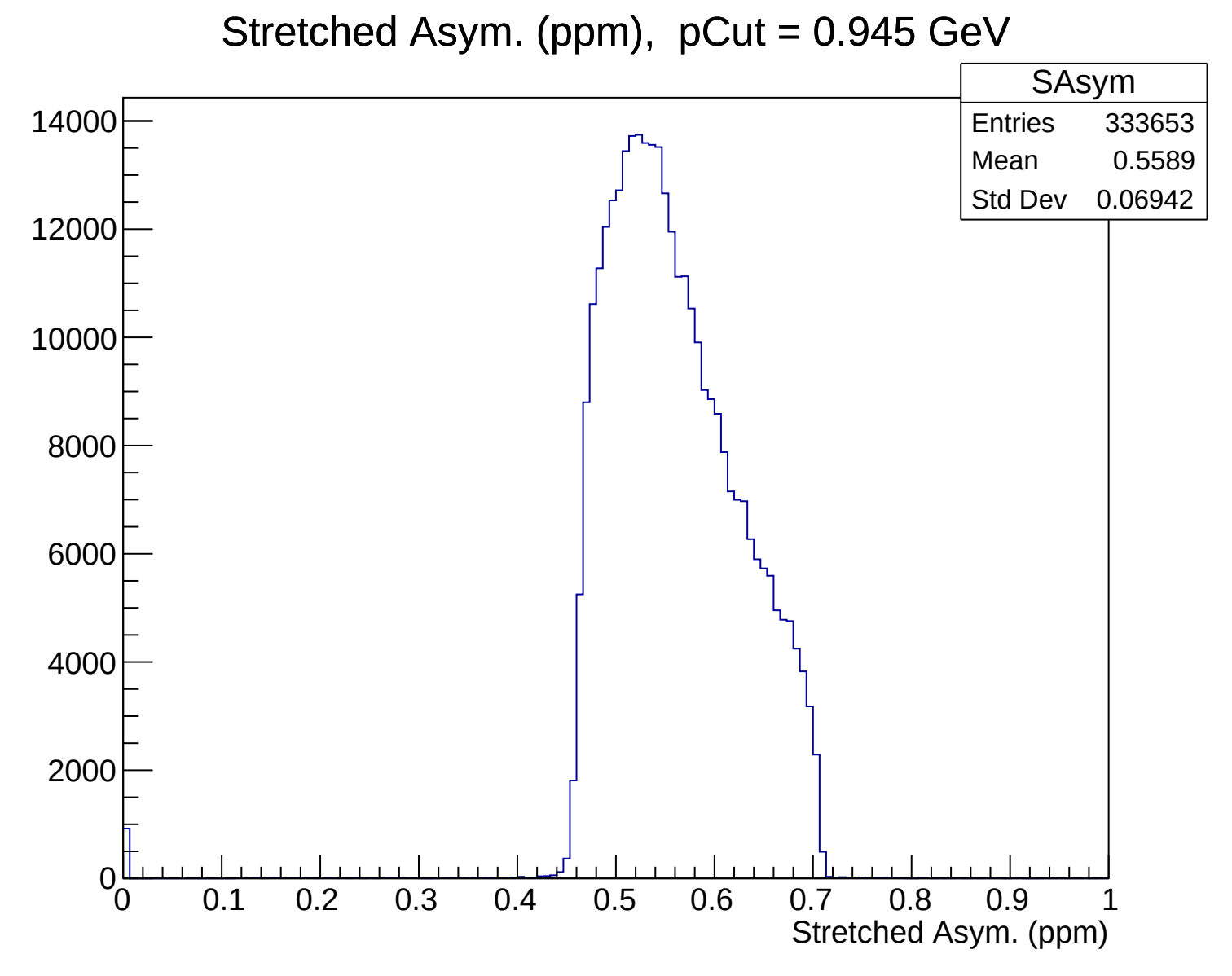

Q^2 (GeV/c)^2, pCut = 0.944 GeV
Q2
Entries 355965
Mean 0.00631
Std Dev 0.001197
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

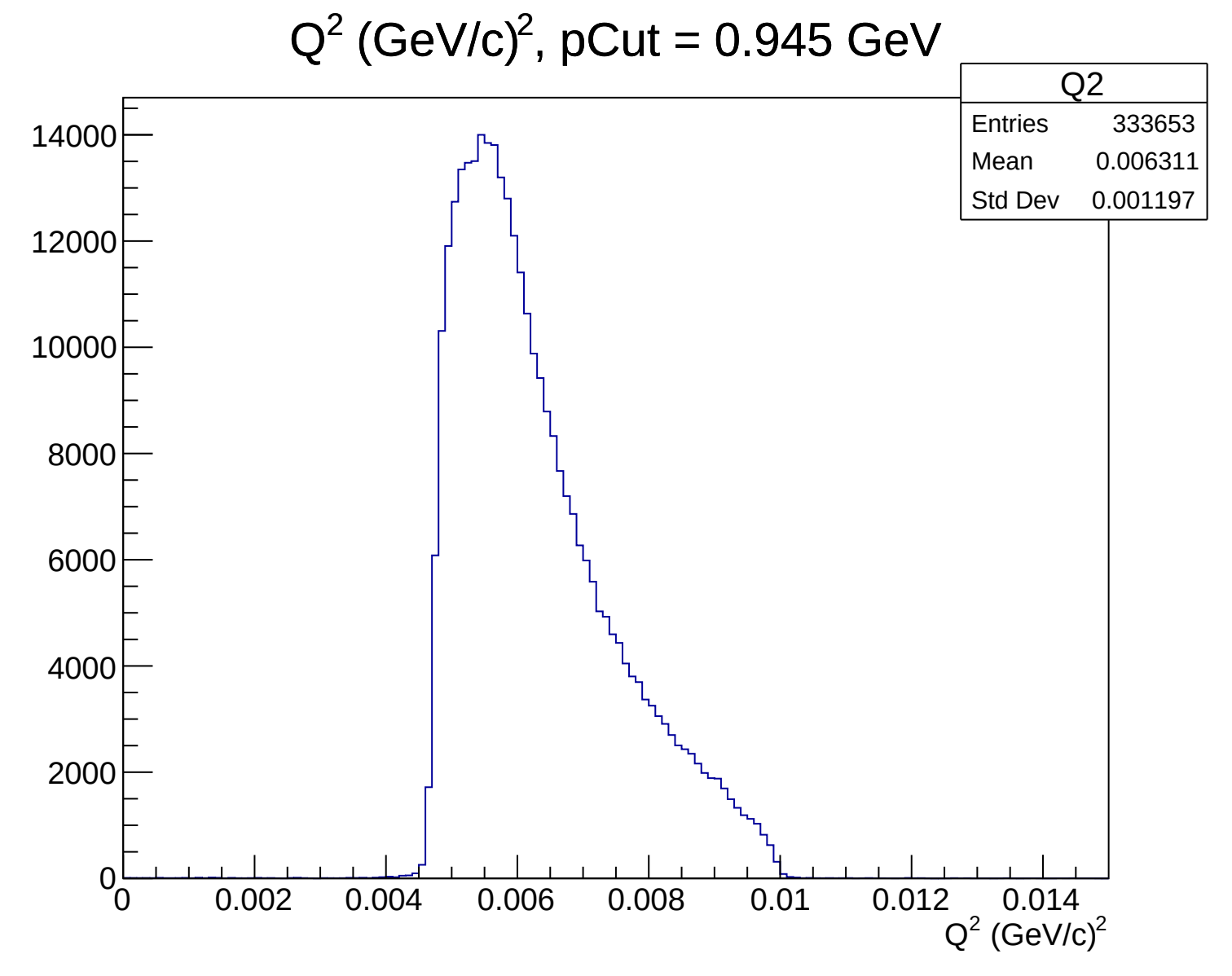

Sensitivity, pCut = 0.944 GeV
sens
Entries 355965
Mean 0.02222
Std Dev 0.003806
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

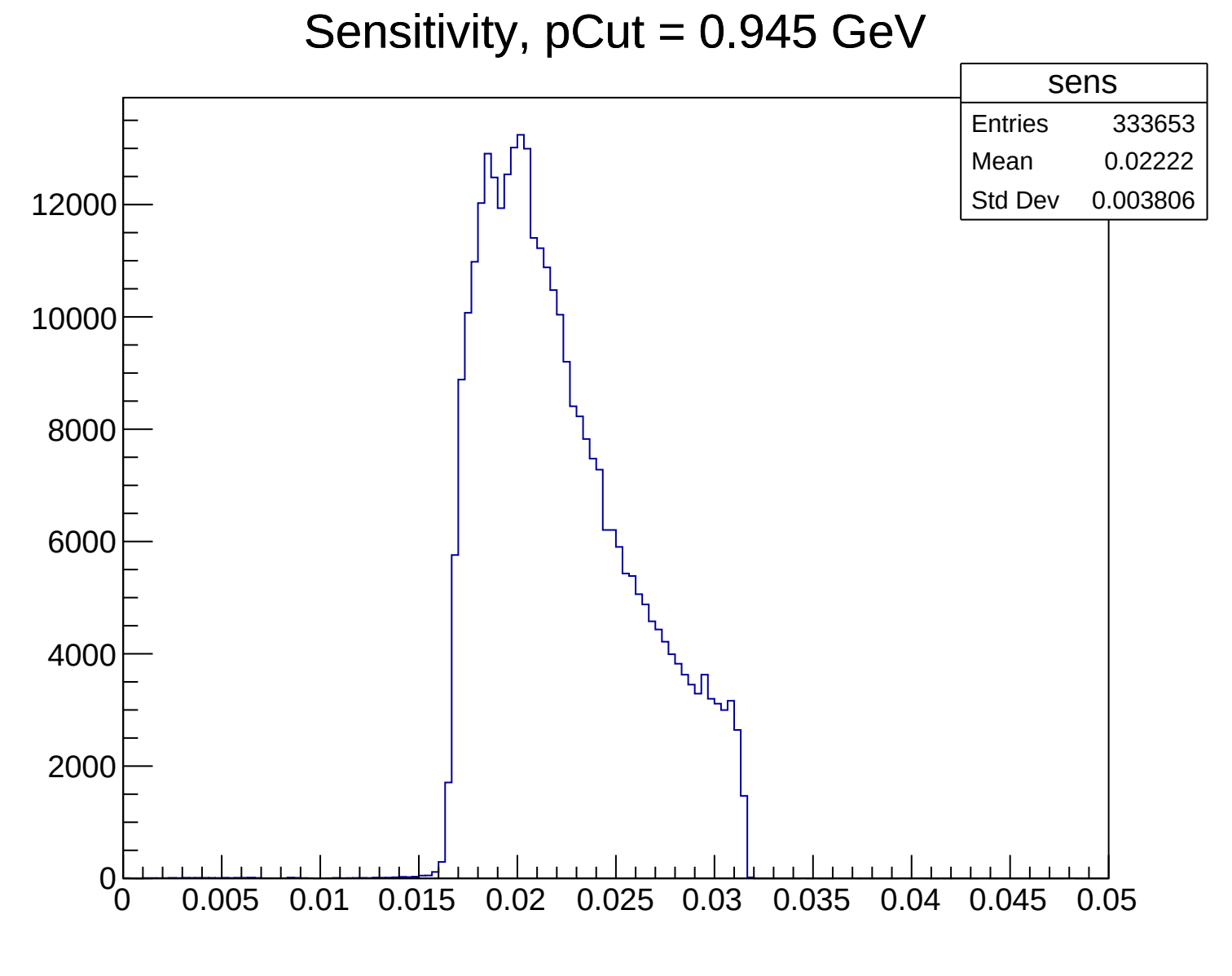

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9445 GeV
R.gold.p (GeV)

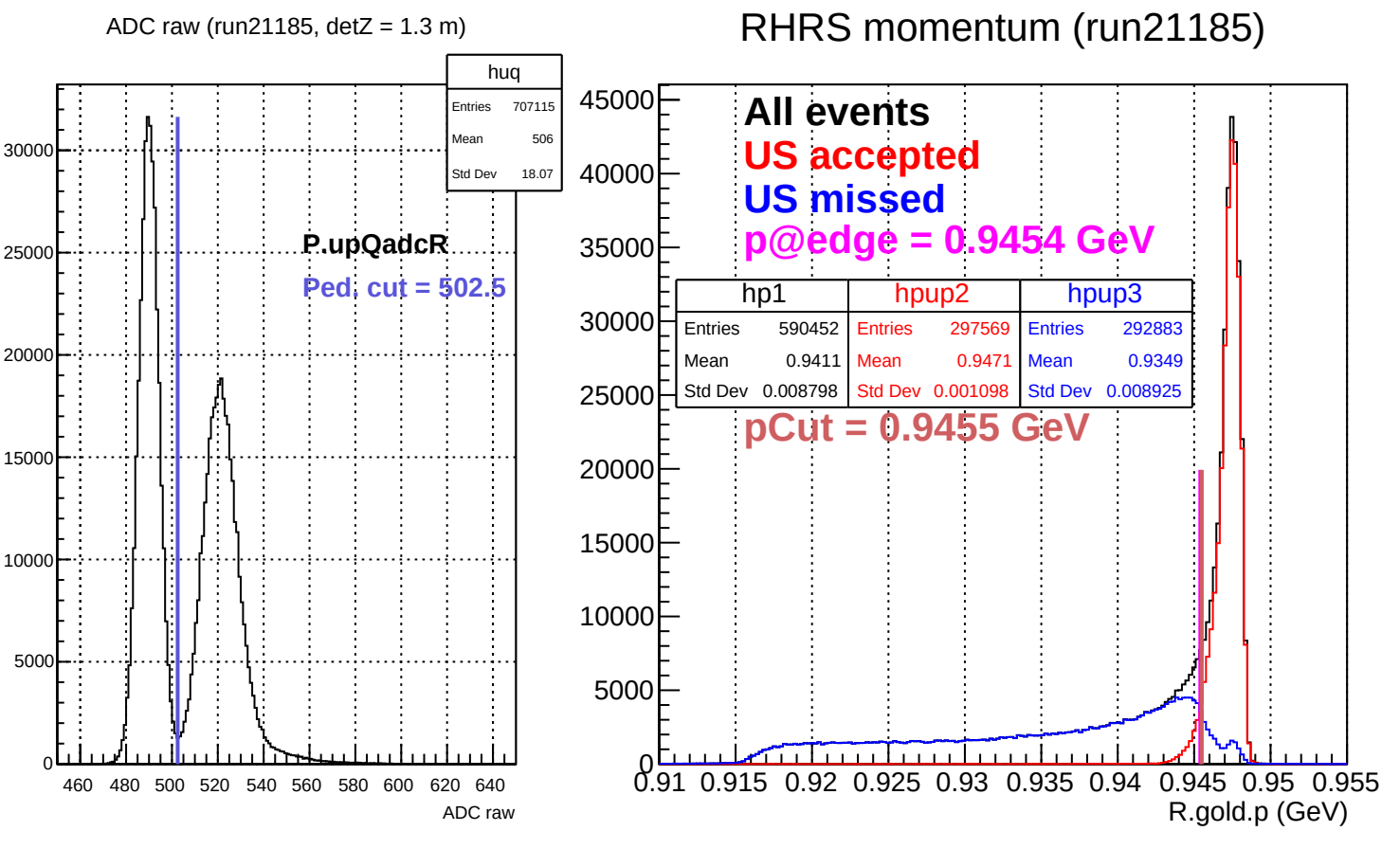

θlab (deg), pCut = 0.945 GeV
Theta
Entries 333653
Mean 4.781
Std Dev 0.4424
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

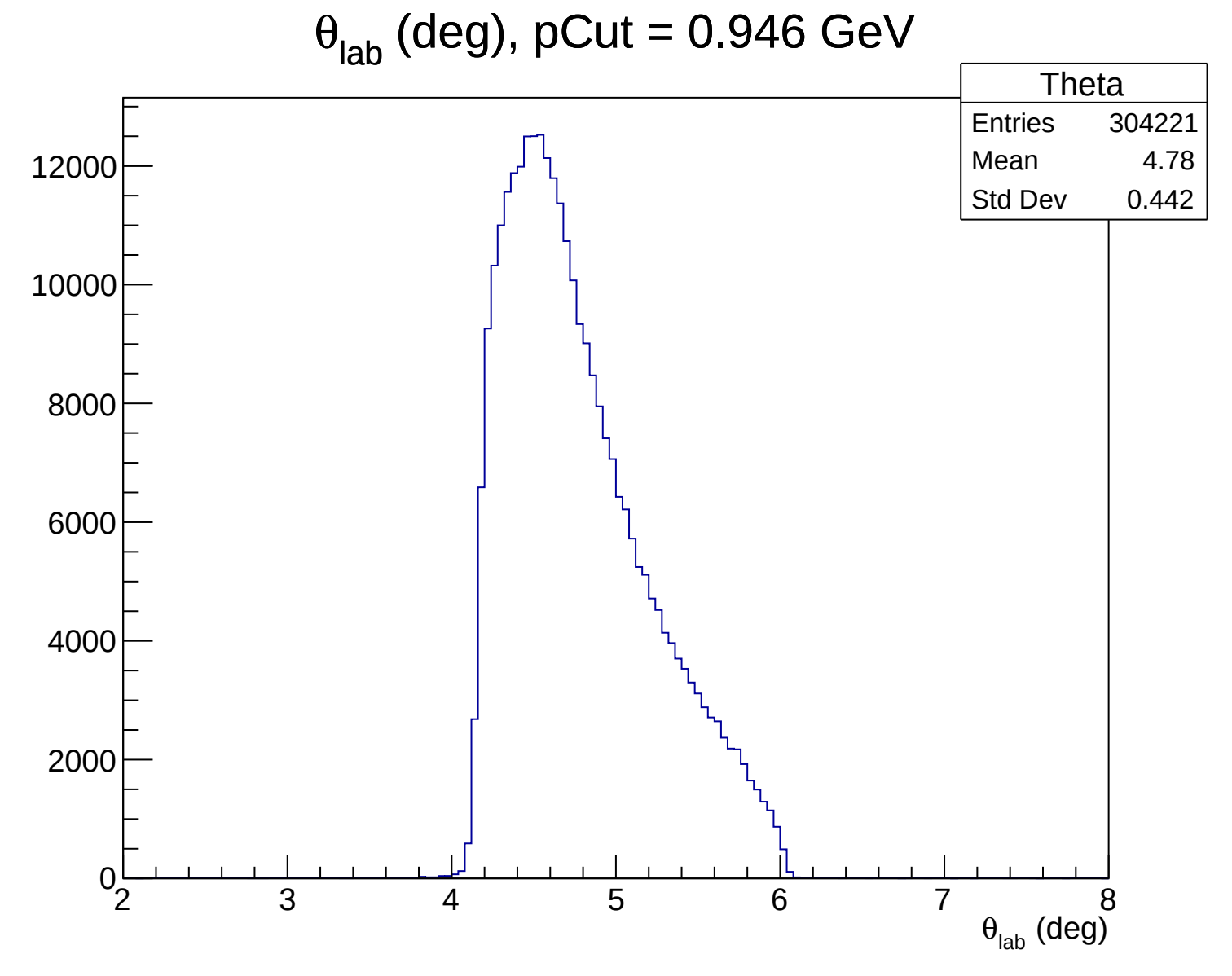

Asymmetry (ppm), pCut = 0.945 GeV
Asym
Entries 333653
Mean 0.5719
Std Dev 0.07311
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

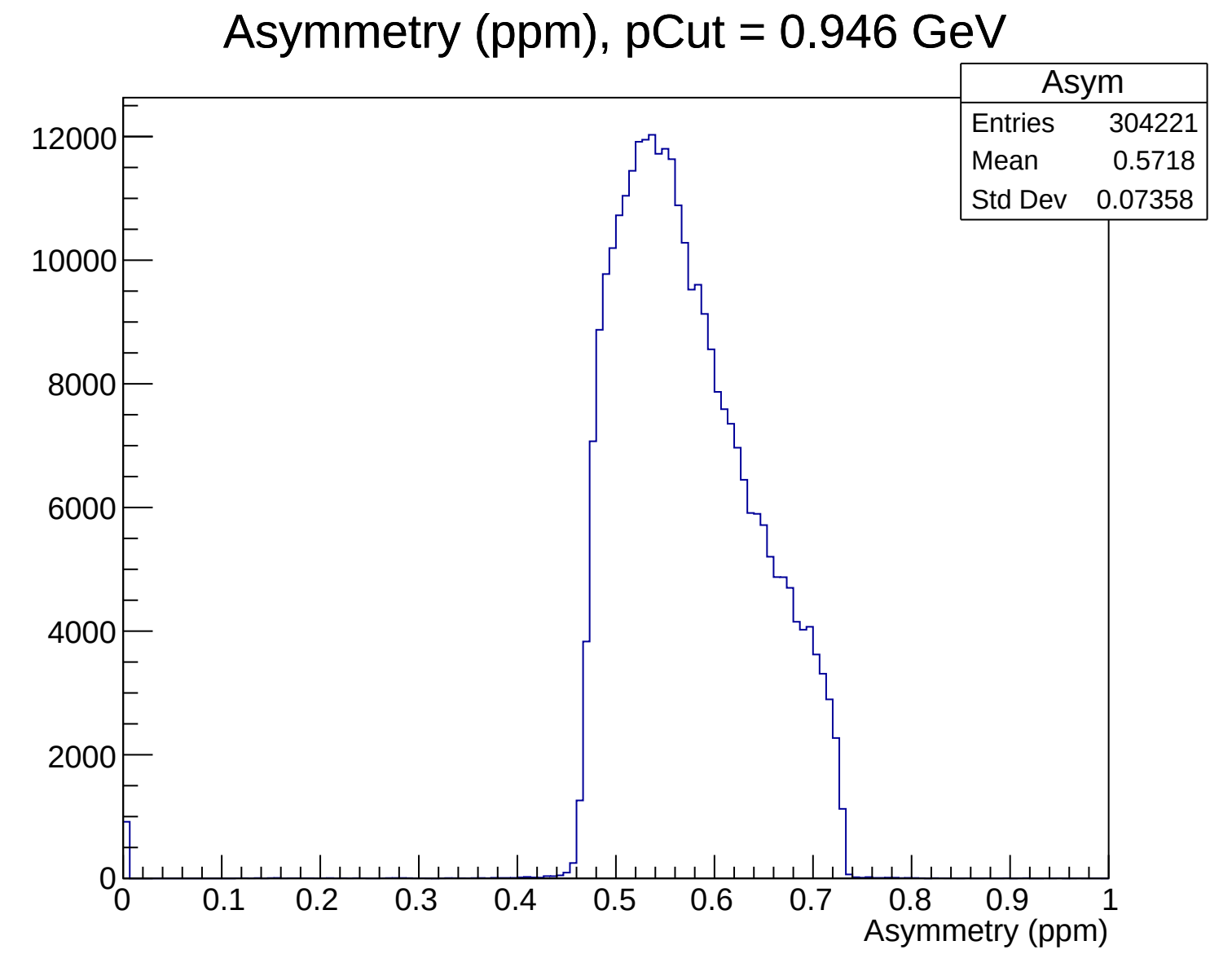

Stretched Asym. (ppm), pCut = 0.945 GeV
SAsym
Entries 333653
Mean 0.5589
Std Dev 0.06942
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

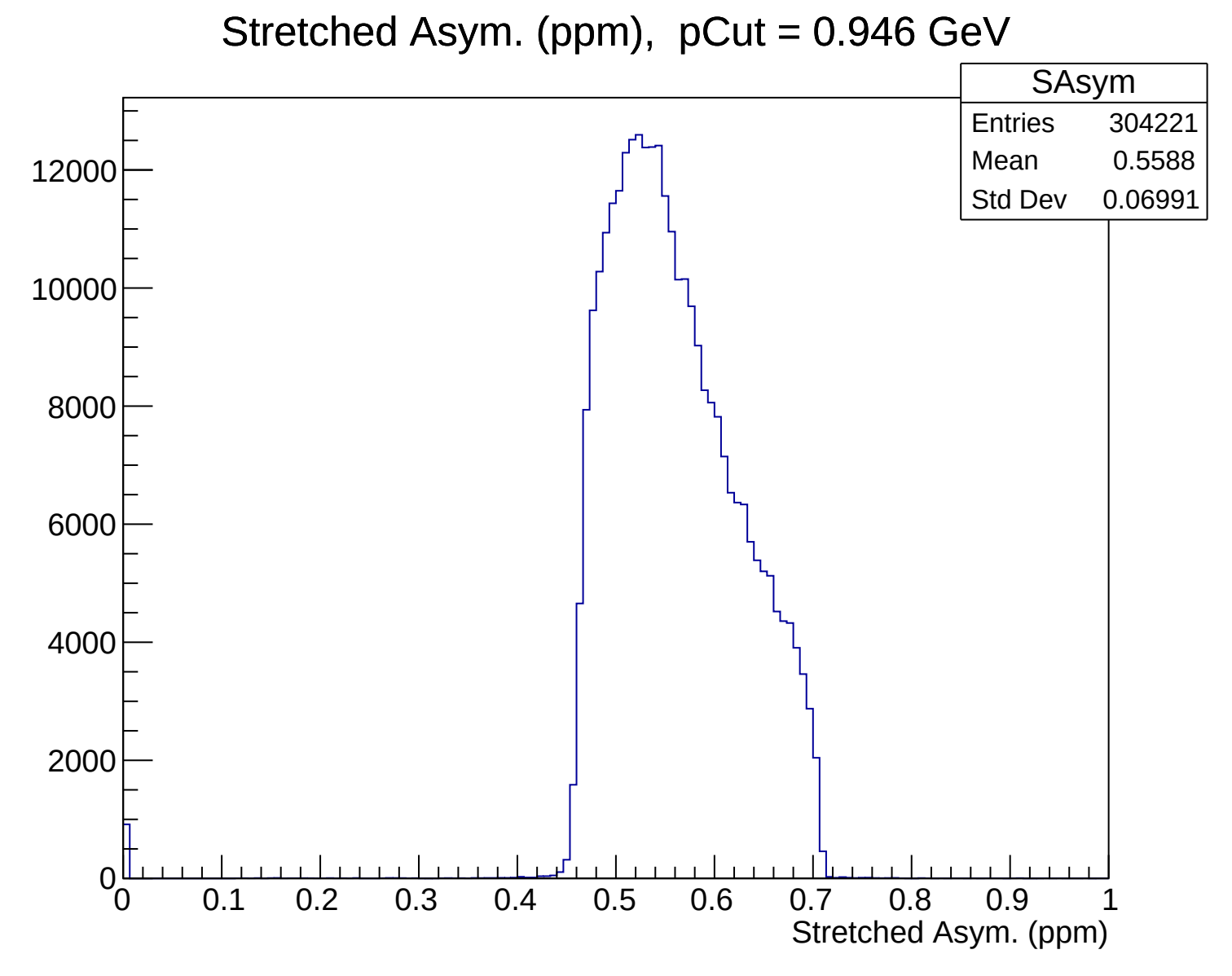

Q^2 (GeV/c)^2, pCut = 0.945 GeV
Q2
Entries 333653
Mean 0.006311
Std Dev 0.001197
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

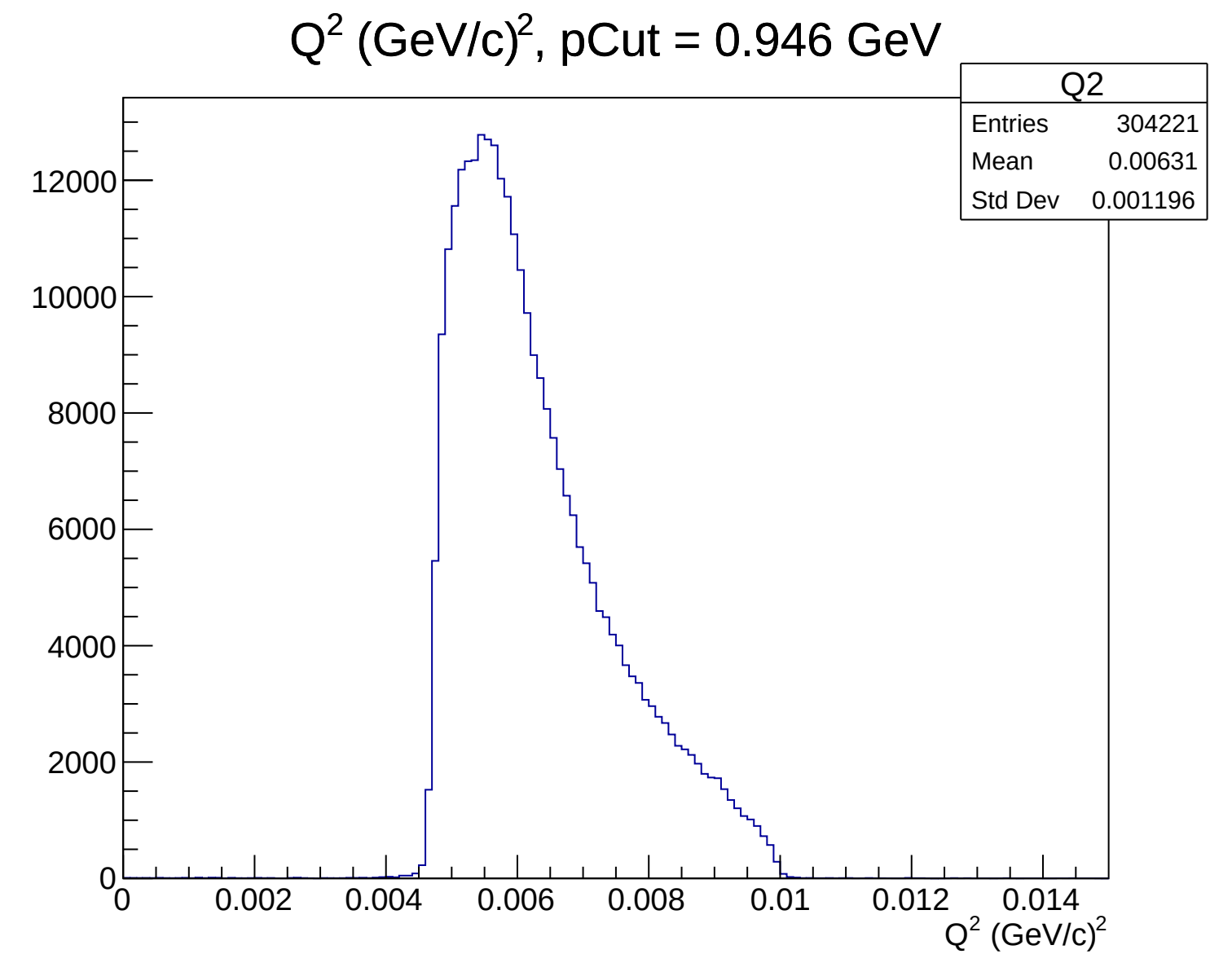

Sensitivity, pCut = 0.945 GeV
sens
Entries 333653
Mean 0.02222
Std Dev 0.003806
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

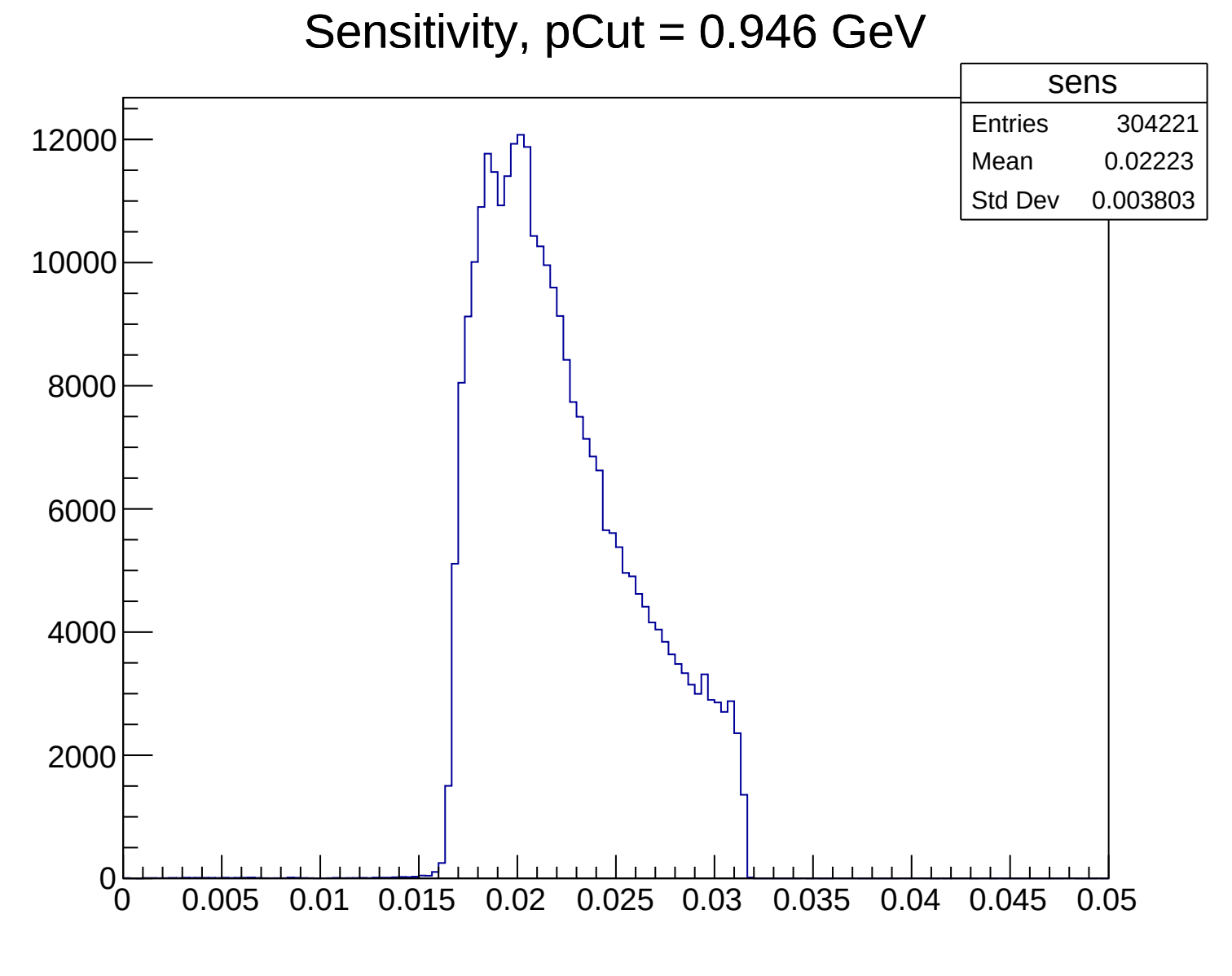

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9455 GeV
R.gold.p (GeV)

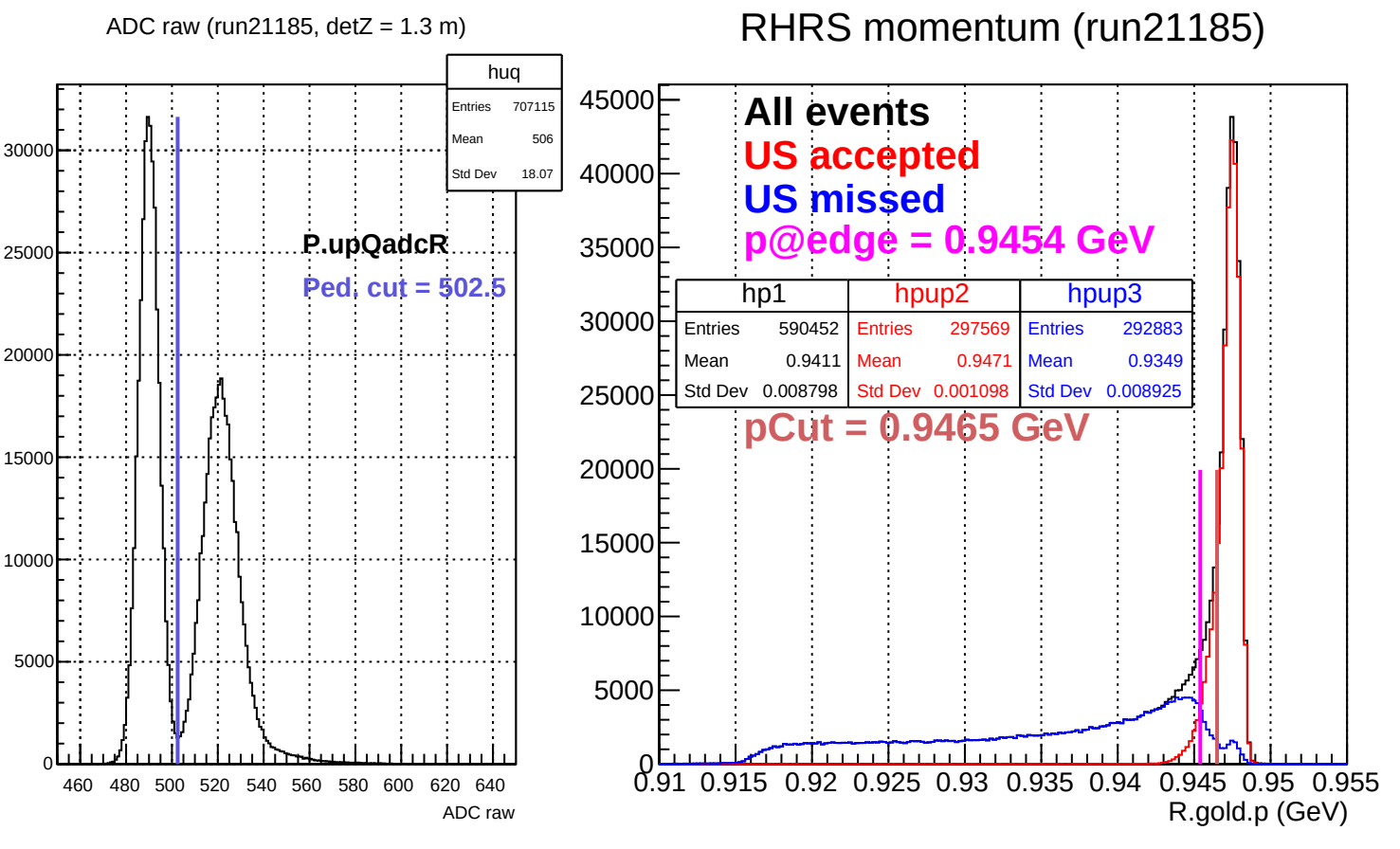

θlab (deg), pCut = 0.946 GeV
Theta
Entries 304221
Mean 4.78
Std Dev 0.442
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

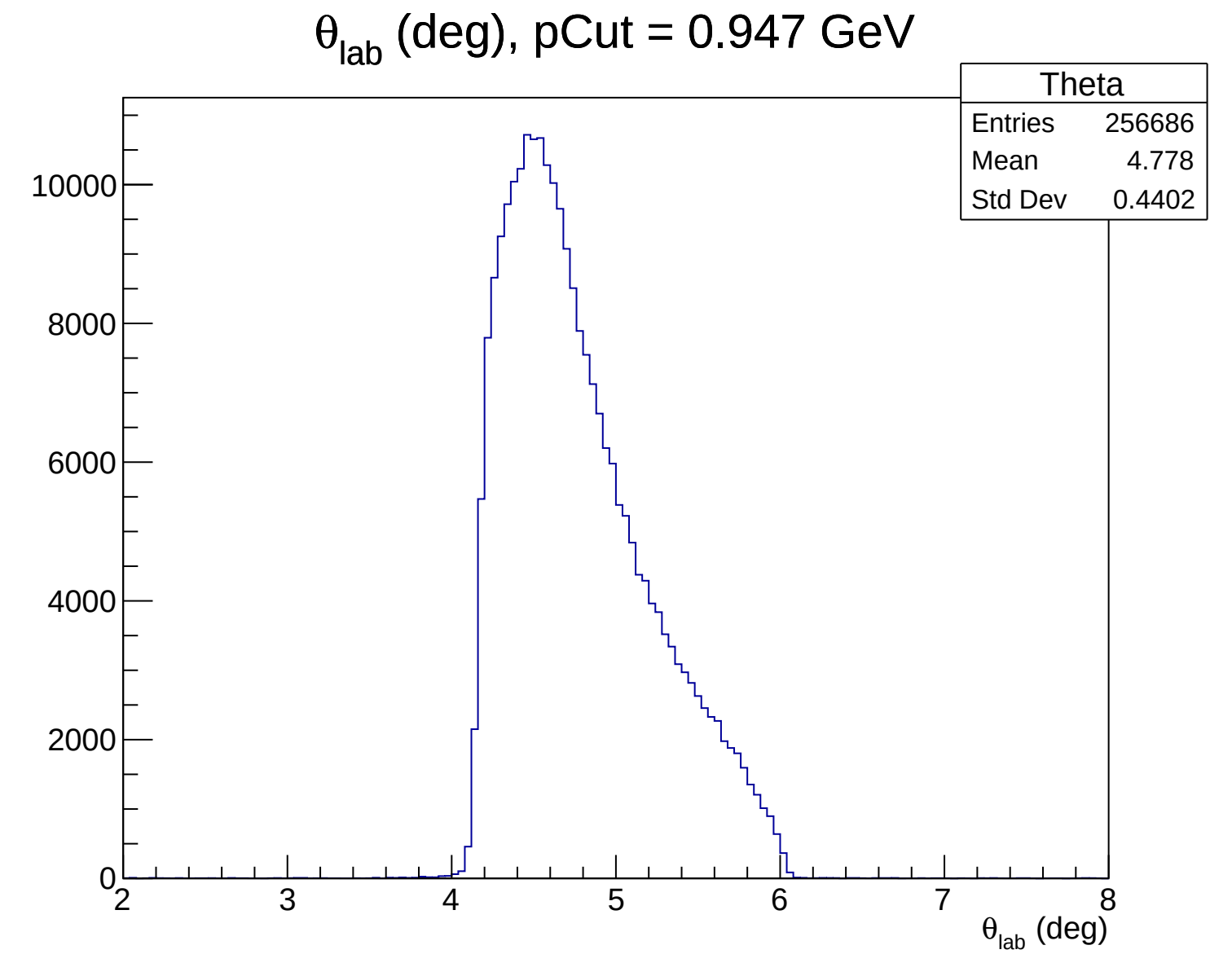

Asymmetry (ppm), pCut = 0.946 GeV
Asym
Entries 304221
Mean 0.5718
Std Dev 0.07358
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

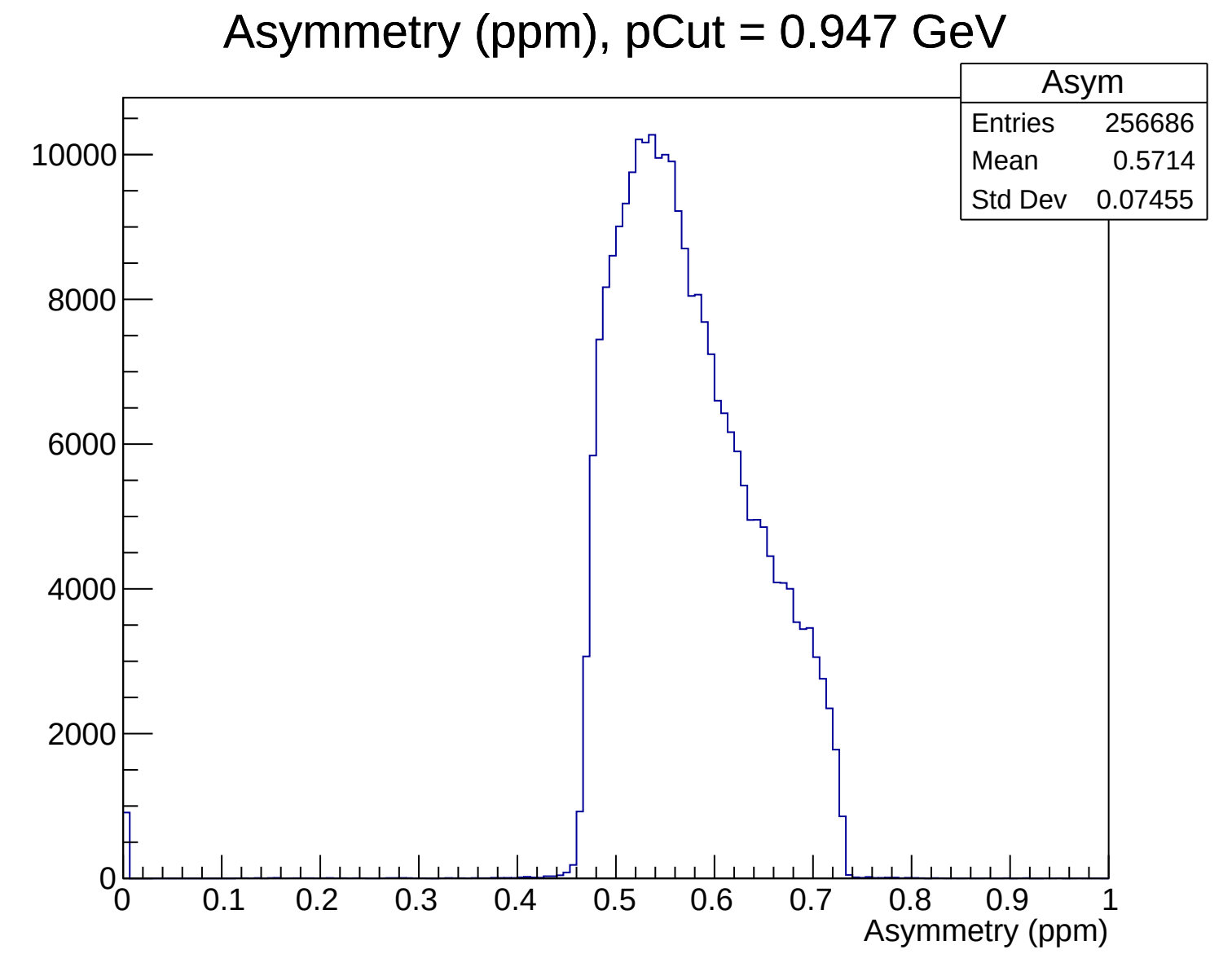

Stretched Asym. (ppm), pCut = 0.946 GeV
SAsym
Entries 304221
Mean 0.5588
Std Dev 0.06991
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

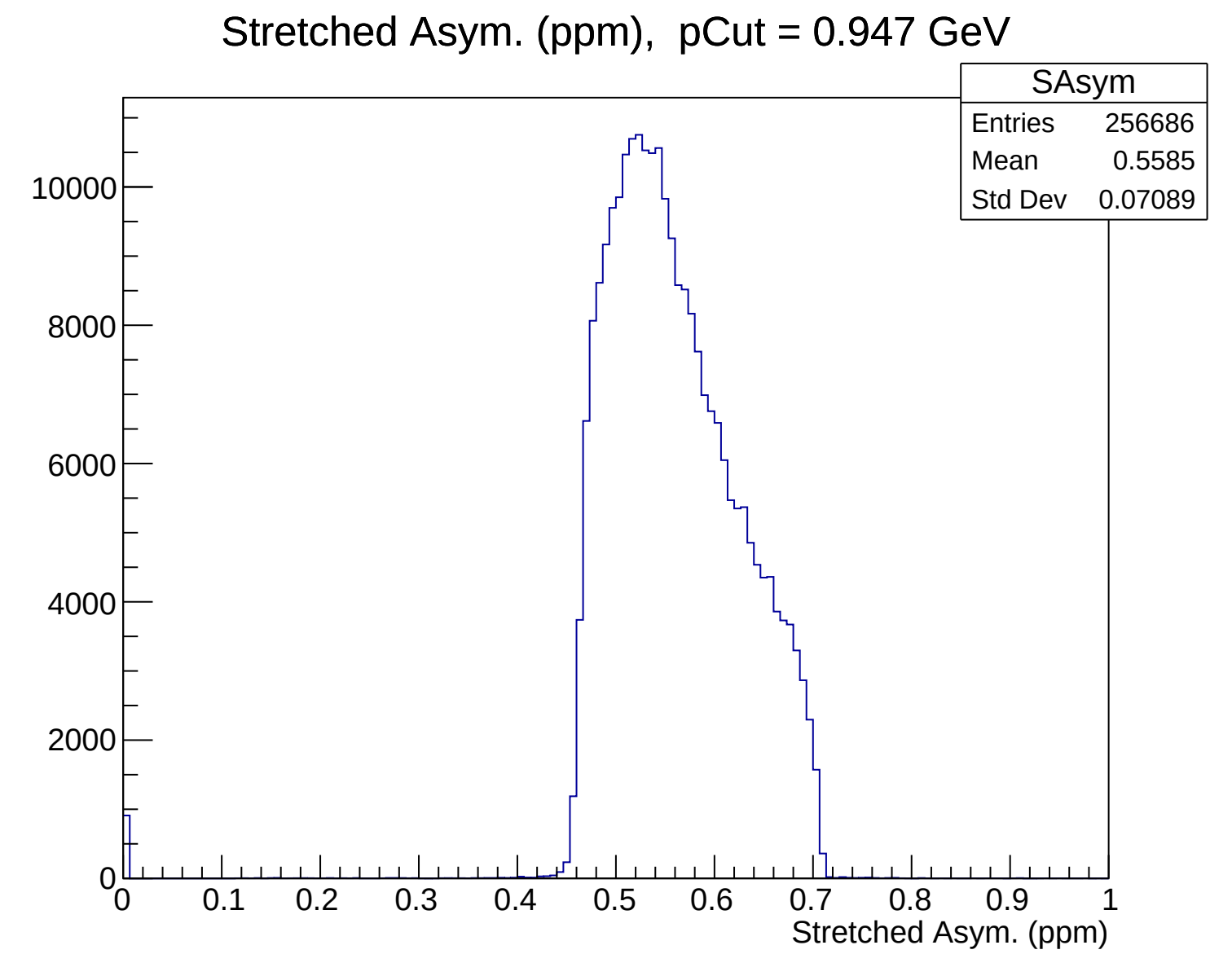

Q^2 (GeV/c)^2, pCut = 0.946 GeV
Q2
Entries 304221
Mean 0.00631
Std Dev 0.001196
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

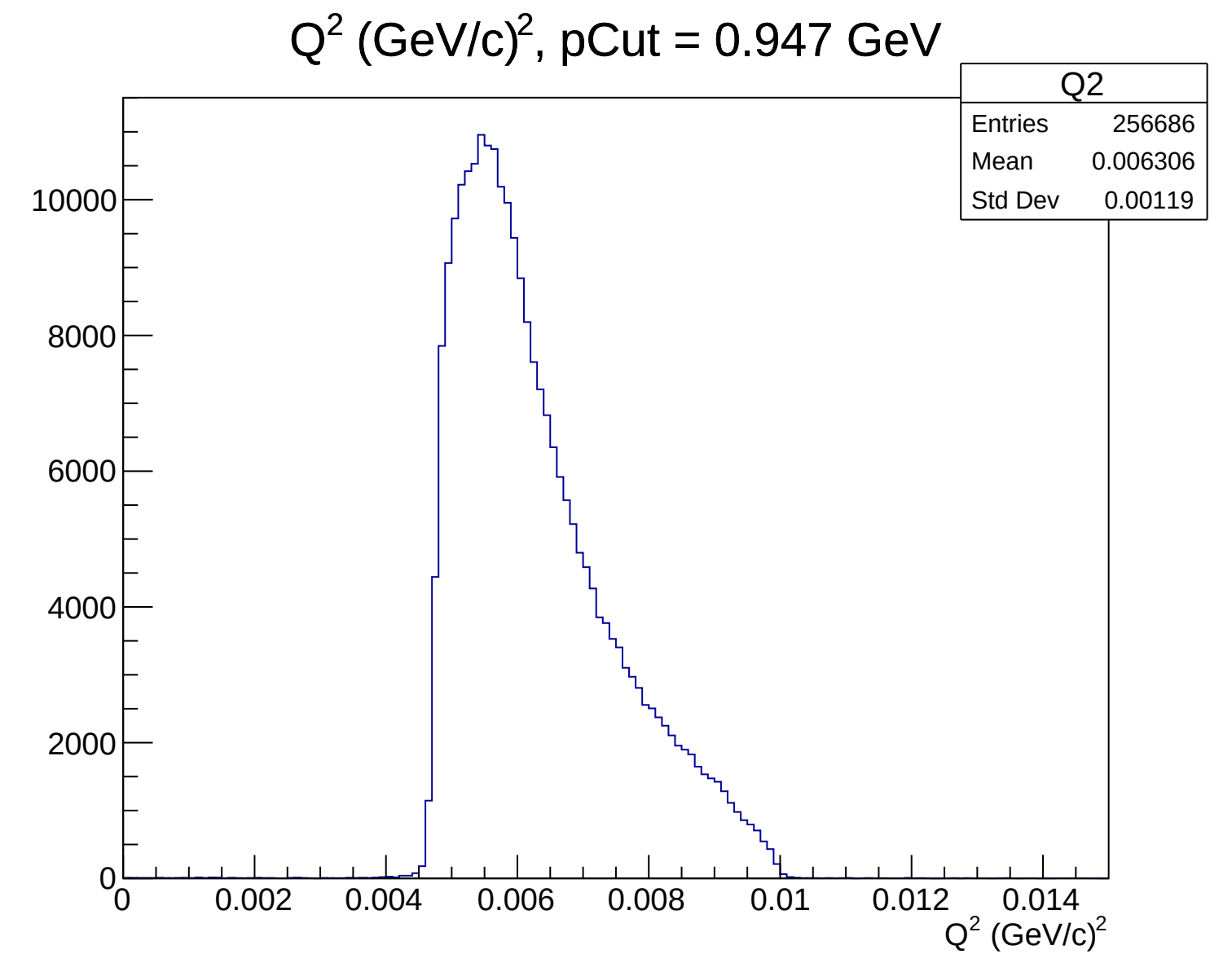

Sensitivity, pCut = 0.946 GeV
sens
Entries 304221
Mean 0.02223
Std Dev 0.003803
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

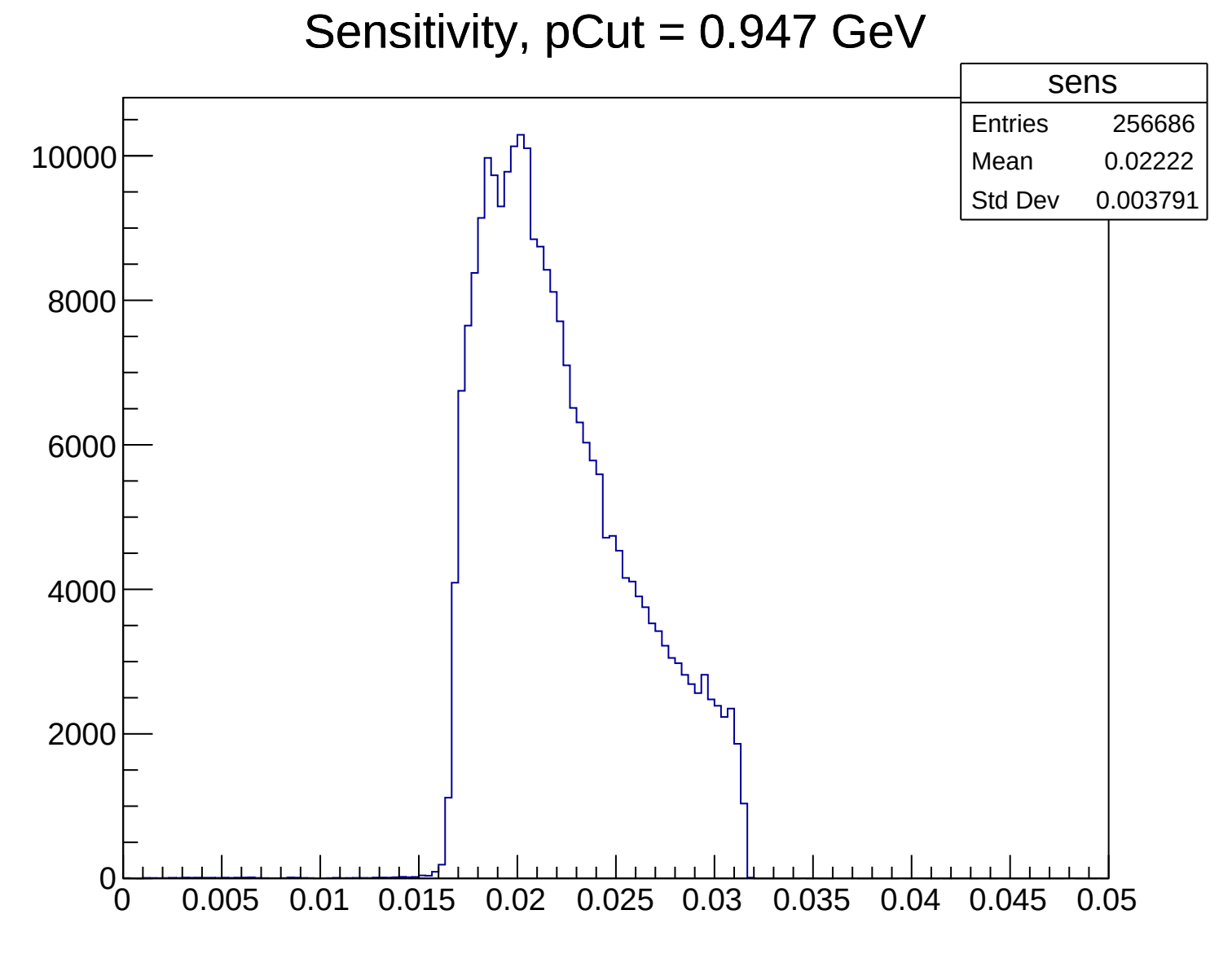

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9465 GeV
R.gold.p (GeV)

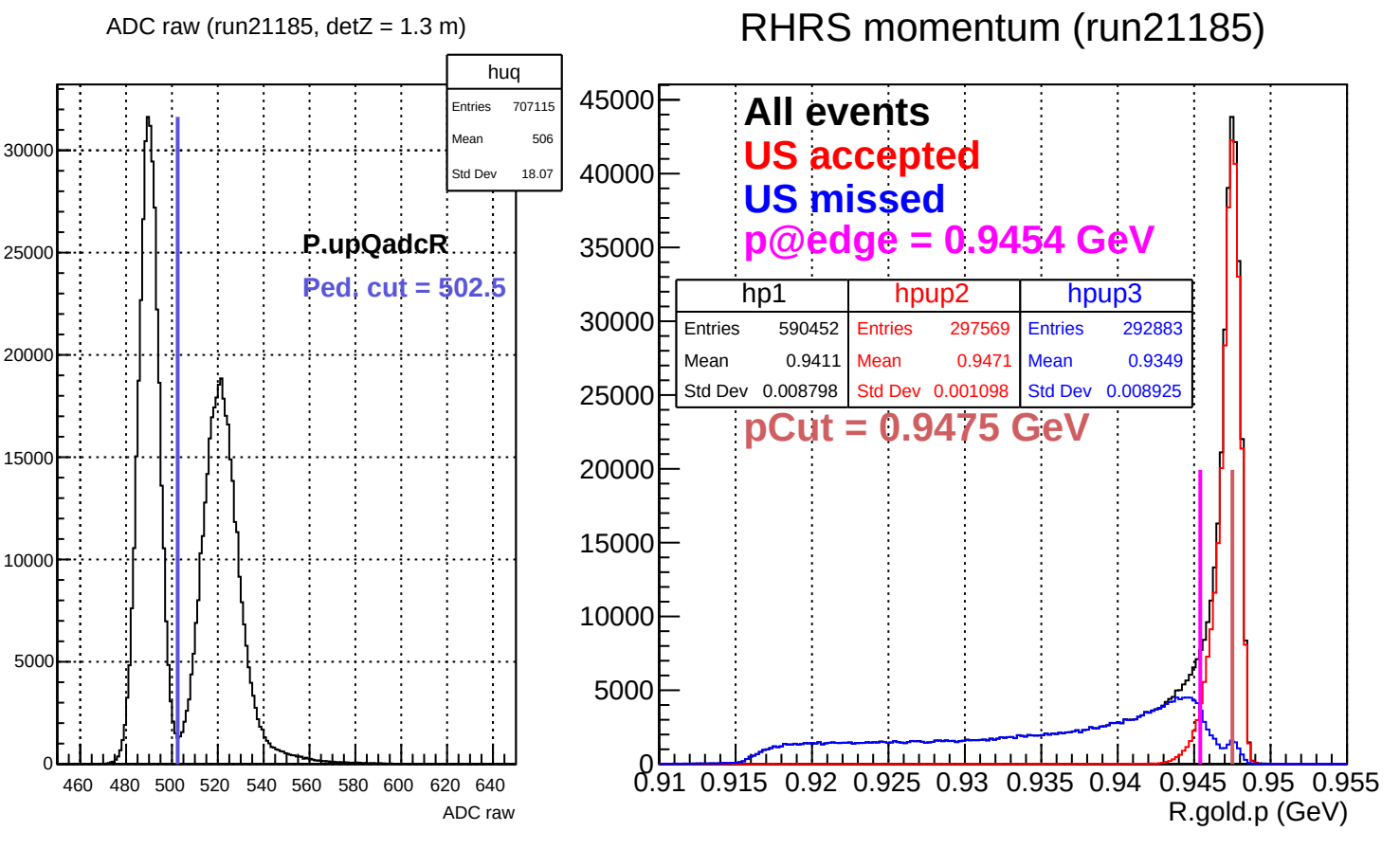

θlab (deg), pCut = 0.947 GeV
Theta
Entries 256686
Mean 4.778
Std Dev 0.4402
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

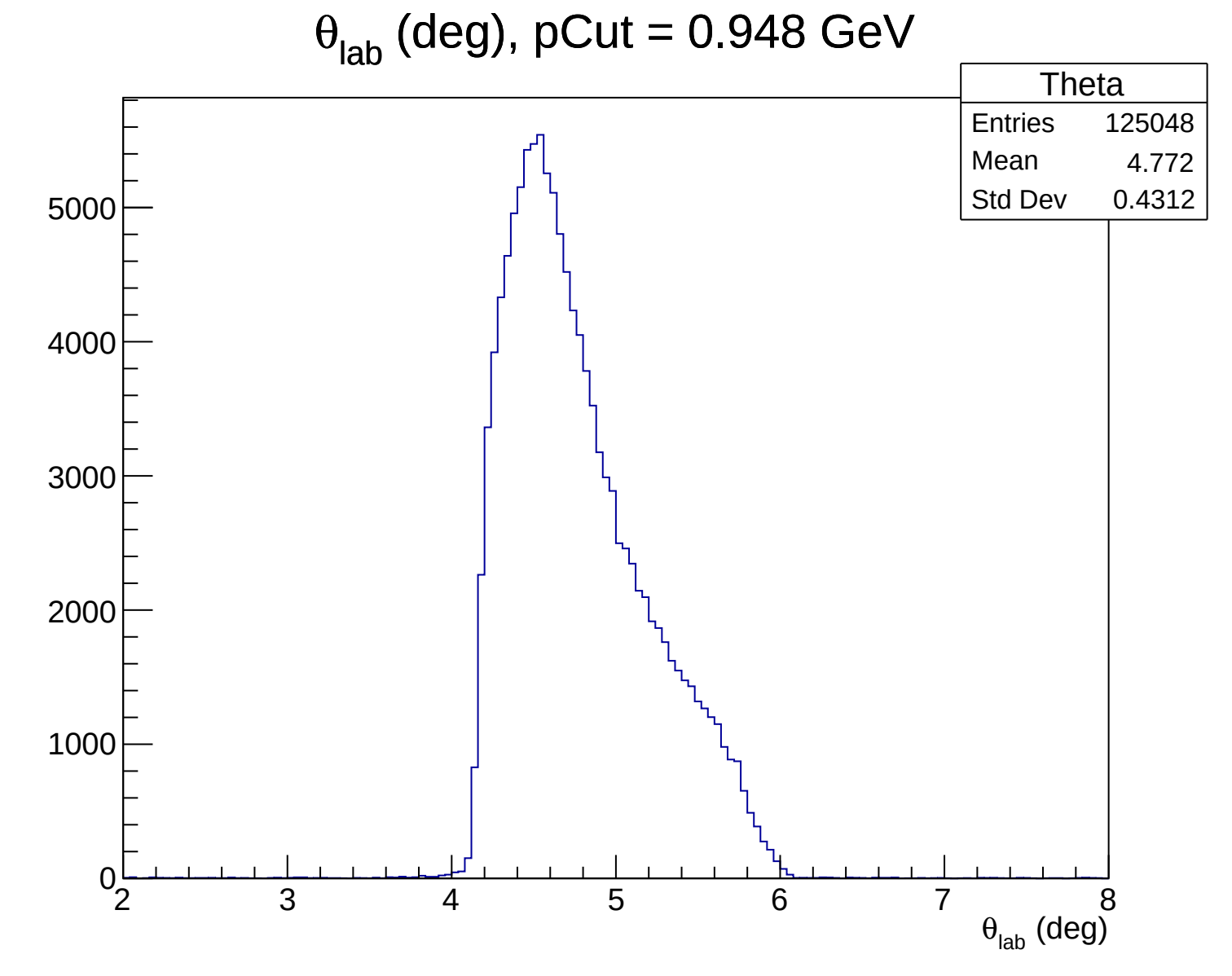

Asymmetry (ppm), pCut = 0.947 GeV
Asym
Entries 256686
Mean 0.5714
Std Dev 0.07455
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

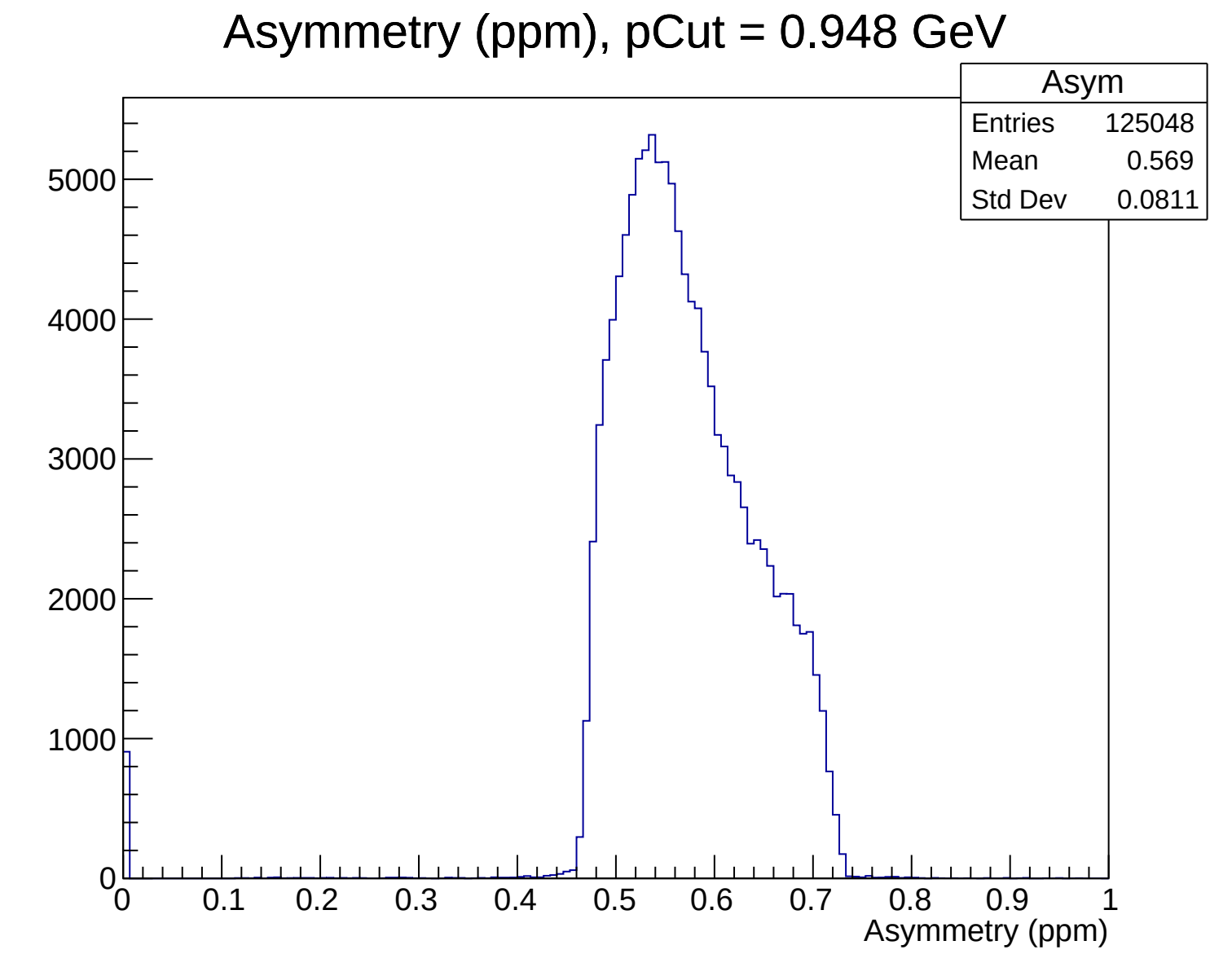

Stretched Asym. (ppm), pCut = 0.947 GeV
SAsym
Entries 256686
Mean 0.5585
Std Dev 0.07089
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

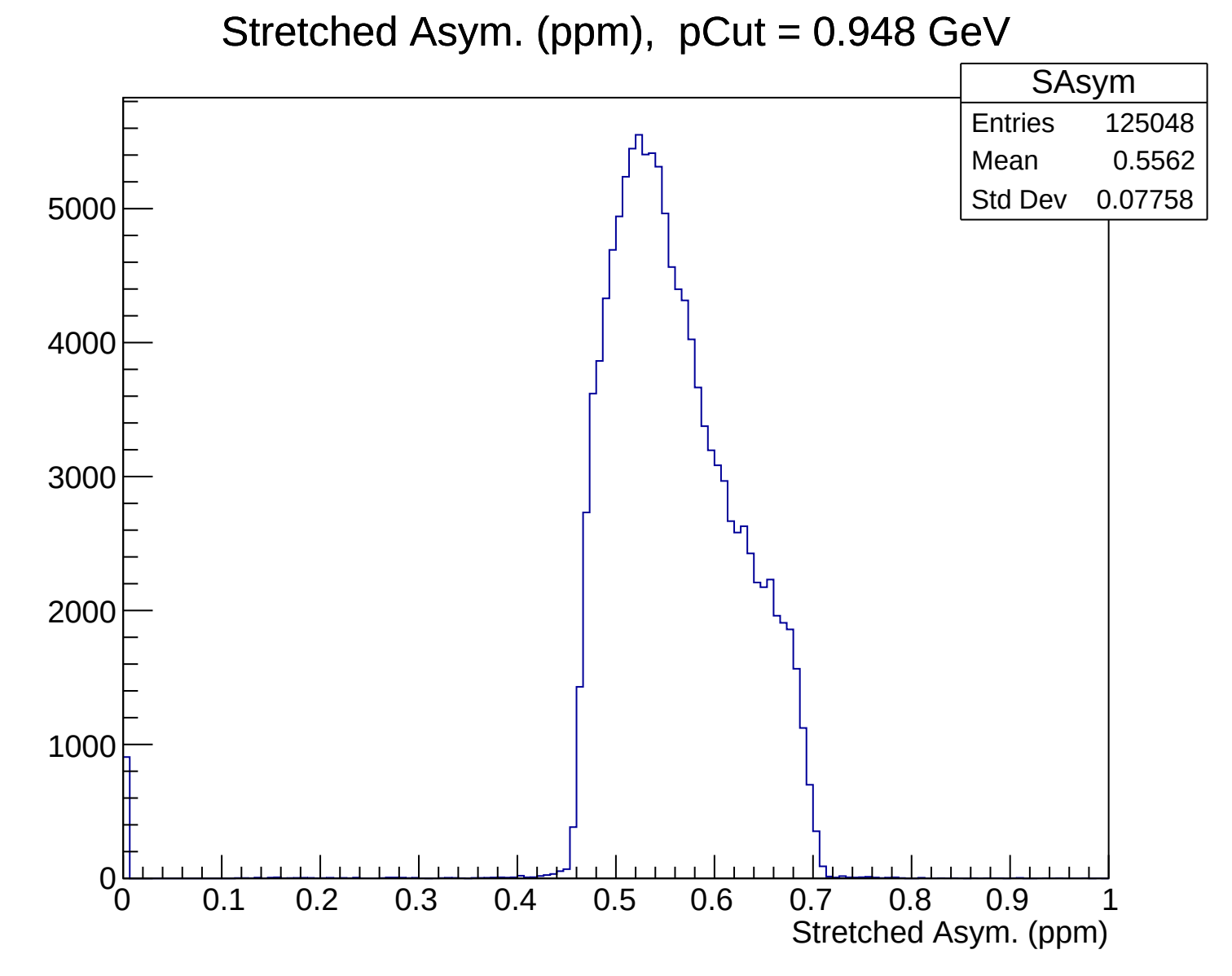

Q^2 (GeV/c)^2, pCut = 0.947 GeV
Q2
Entries 256686
Mean 0.006306
Std Dev 0.00119
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

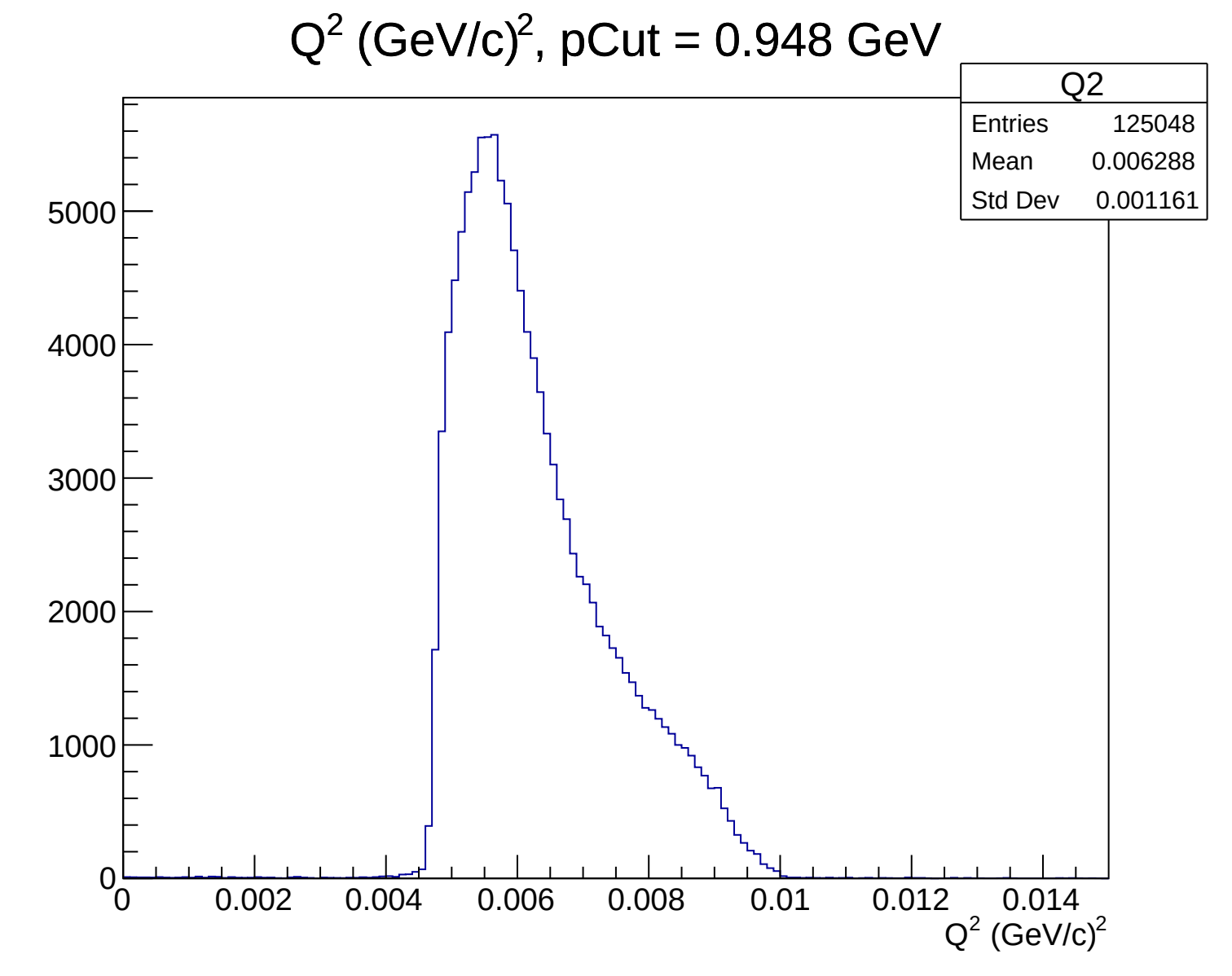

Sensitivity, pCut = 0.947 GeV
sens
Entries 256686
Mean 0.02222
Std Dev 0.003791
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

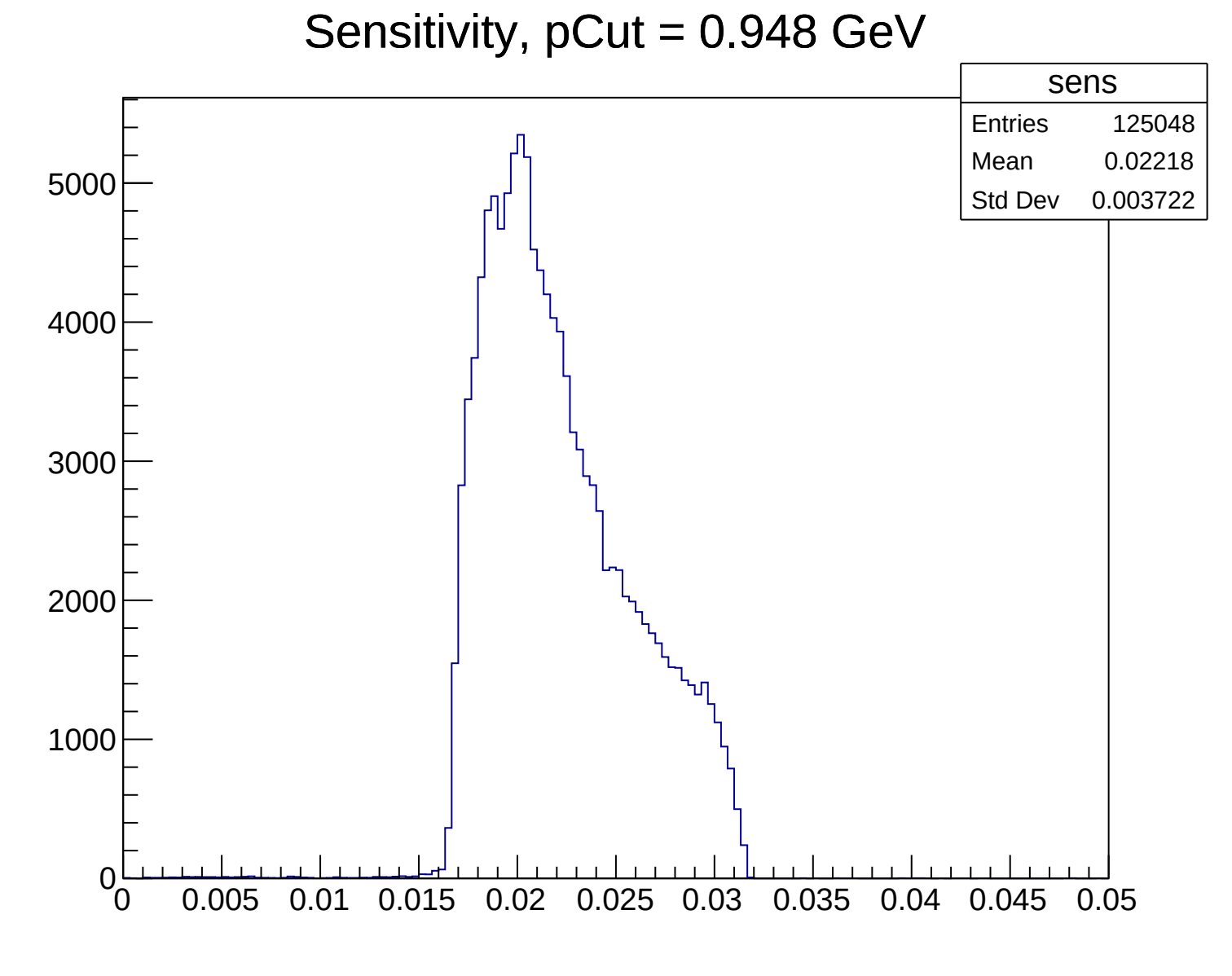

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9475 GeV
R.gold.p (GeV)

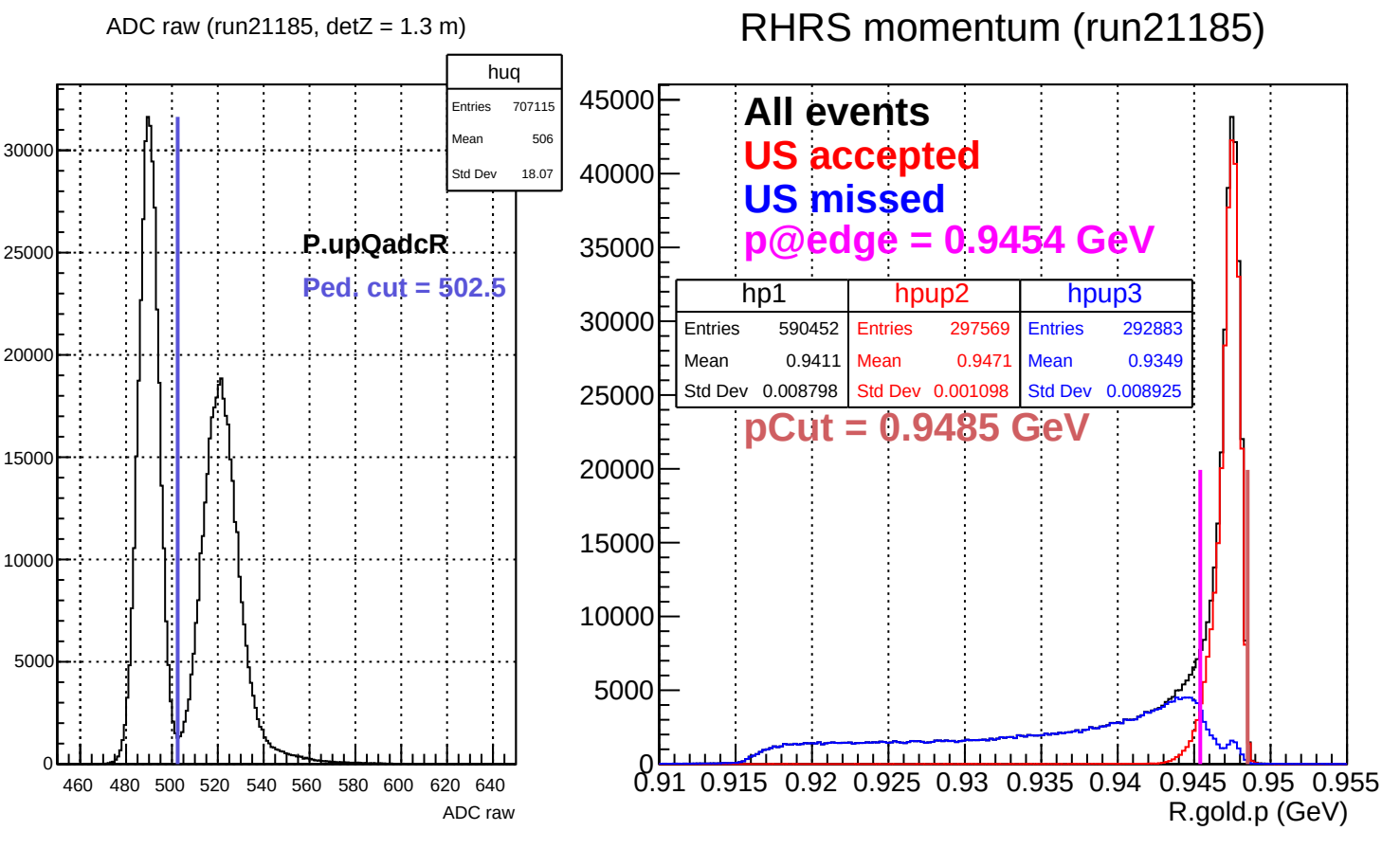

θlab (deg), pCut = 0.948 GeV
Theta
Entries 125048
Mean 4.772
Std Dev 0.4312
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

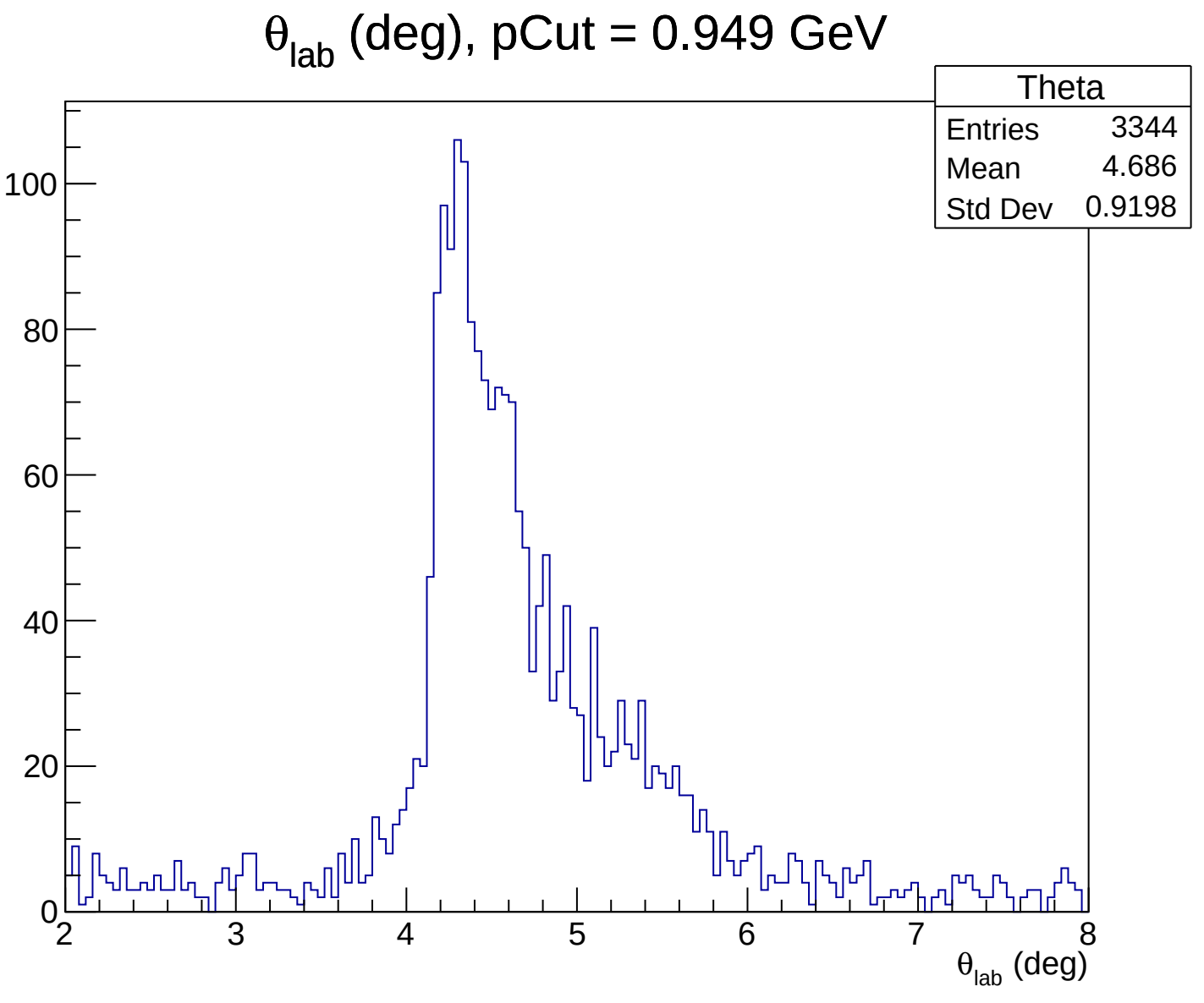

Asymmetry (ppm), pCut = 0.948 GeV
Asym
Entries 125048
Mean 0.569
Std Dev 0.0811
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

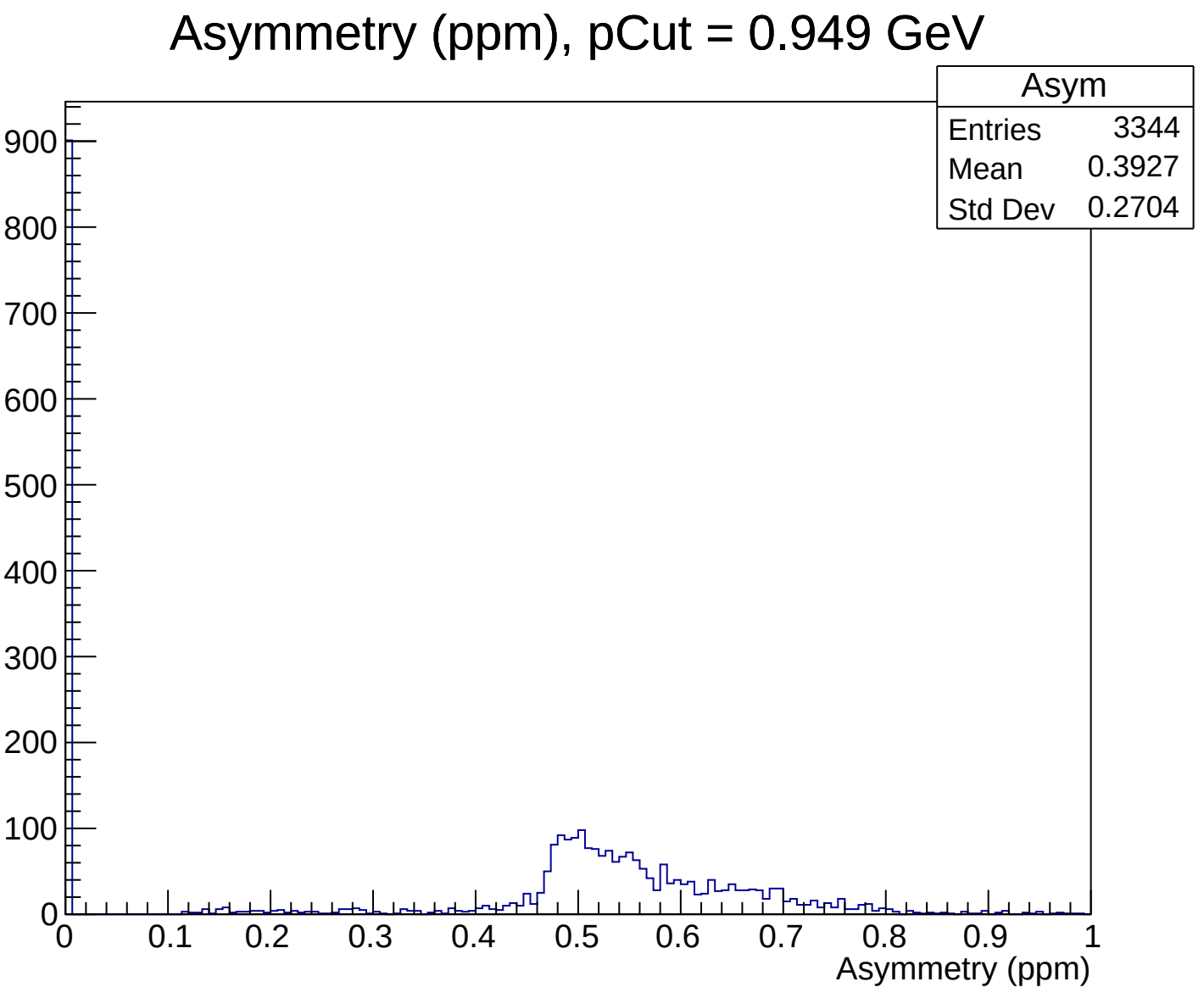

Stretched Asym. (ppm), pCut = 0.948 GeV
SAsym
Entries 125048
Mean 0.5562
Std Dev 0.07758
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

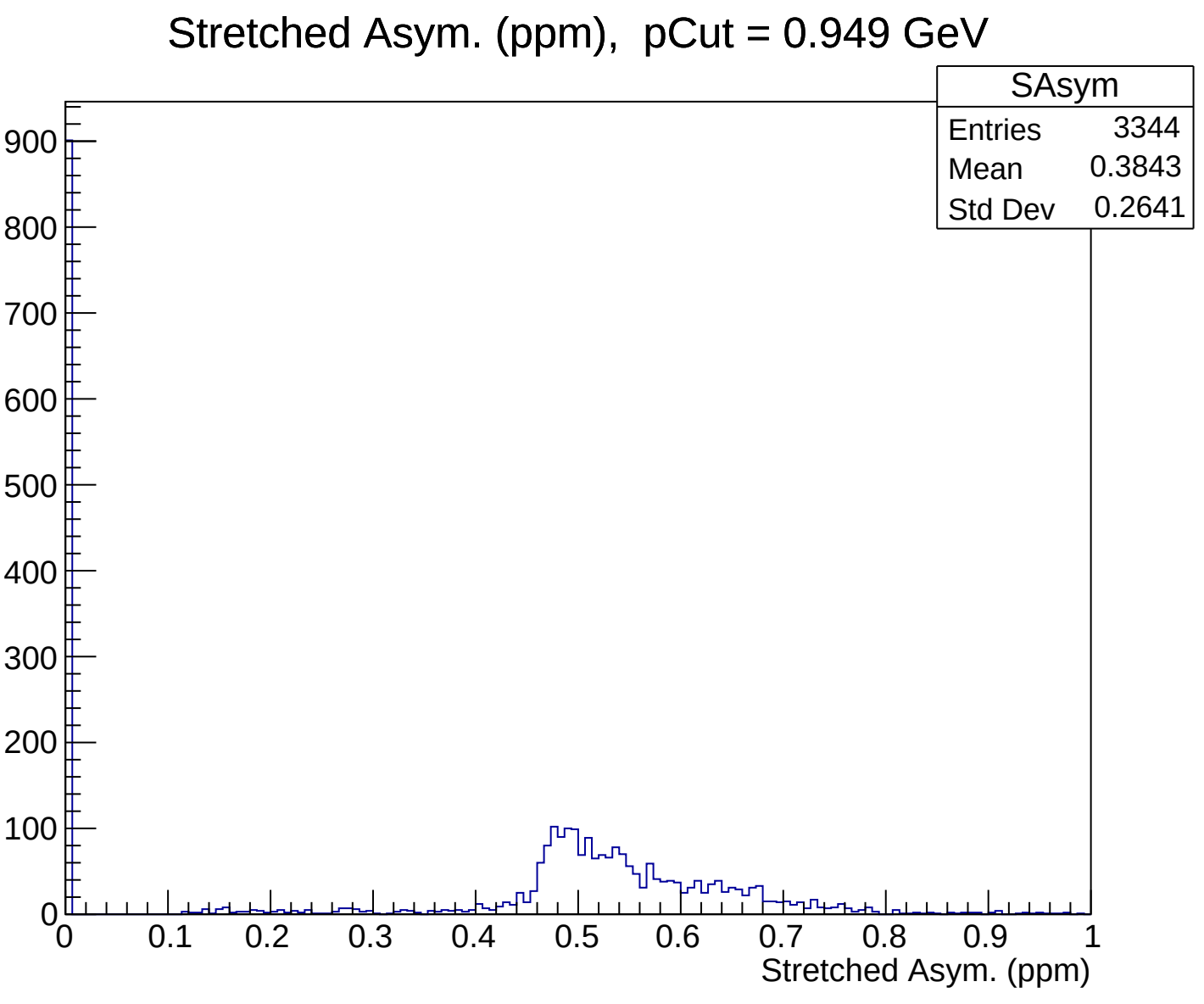

Q^2 (GeV/c)^2, pCut = 0.948 GeV
Q2
Entries 125048
Mean 0.006288
Std Dev 0.001161
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

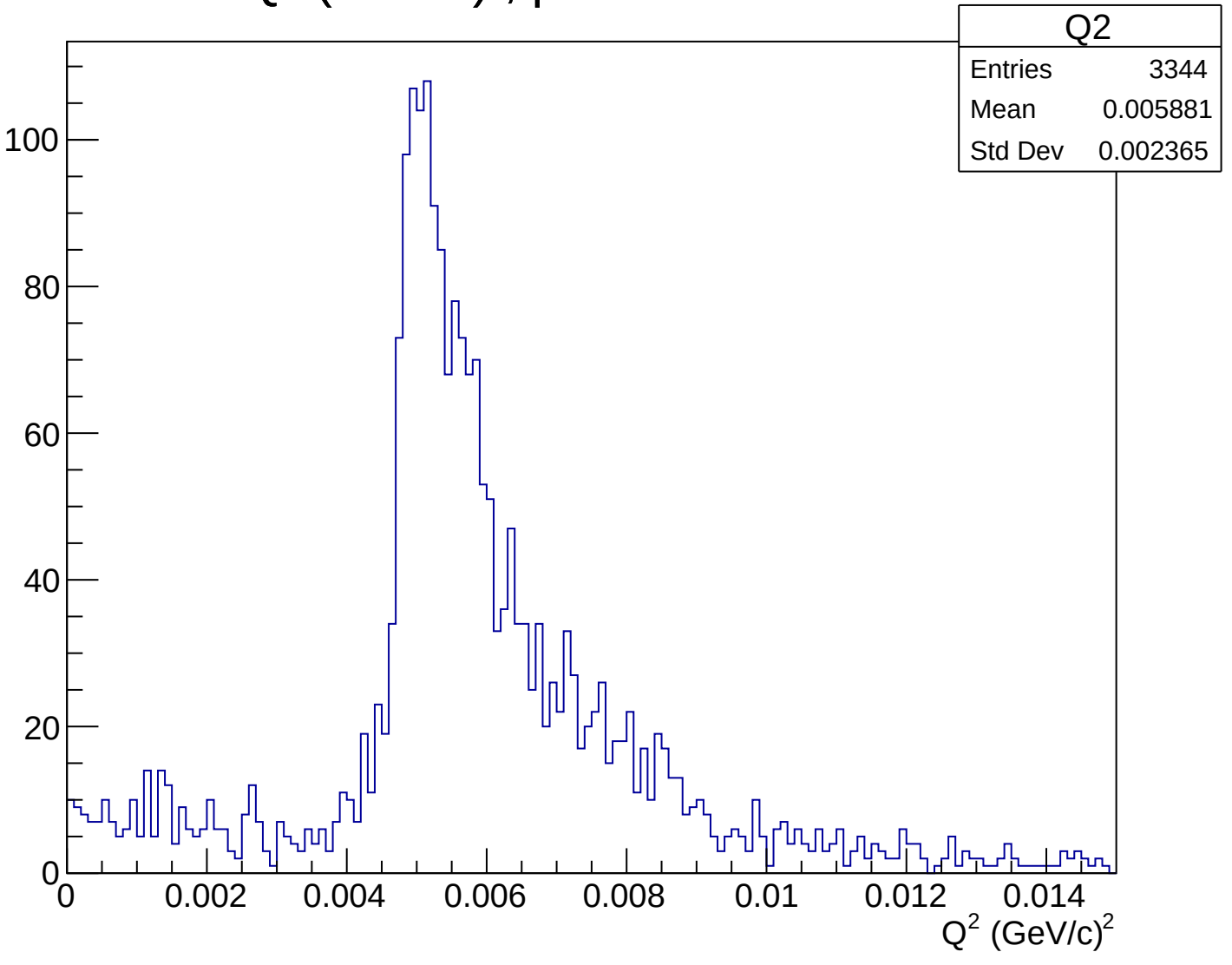

Sensitivity, pCut = 0.948 GeV
sens
Entries 125048
Mean 0.02218
Std Dev 0.003722
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

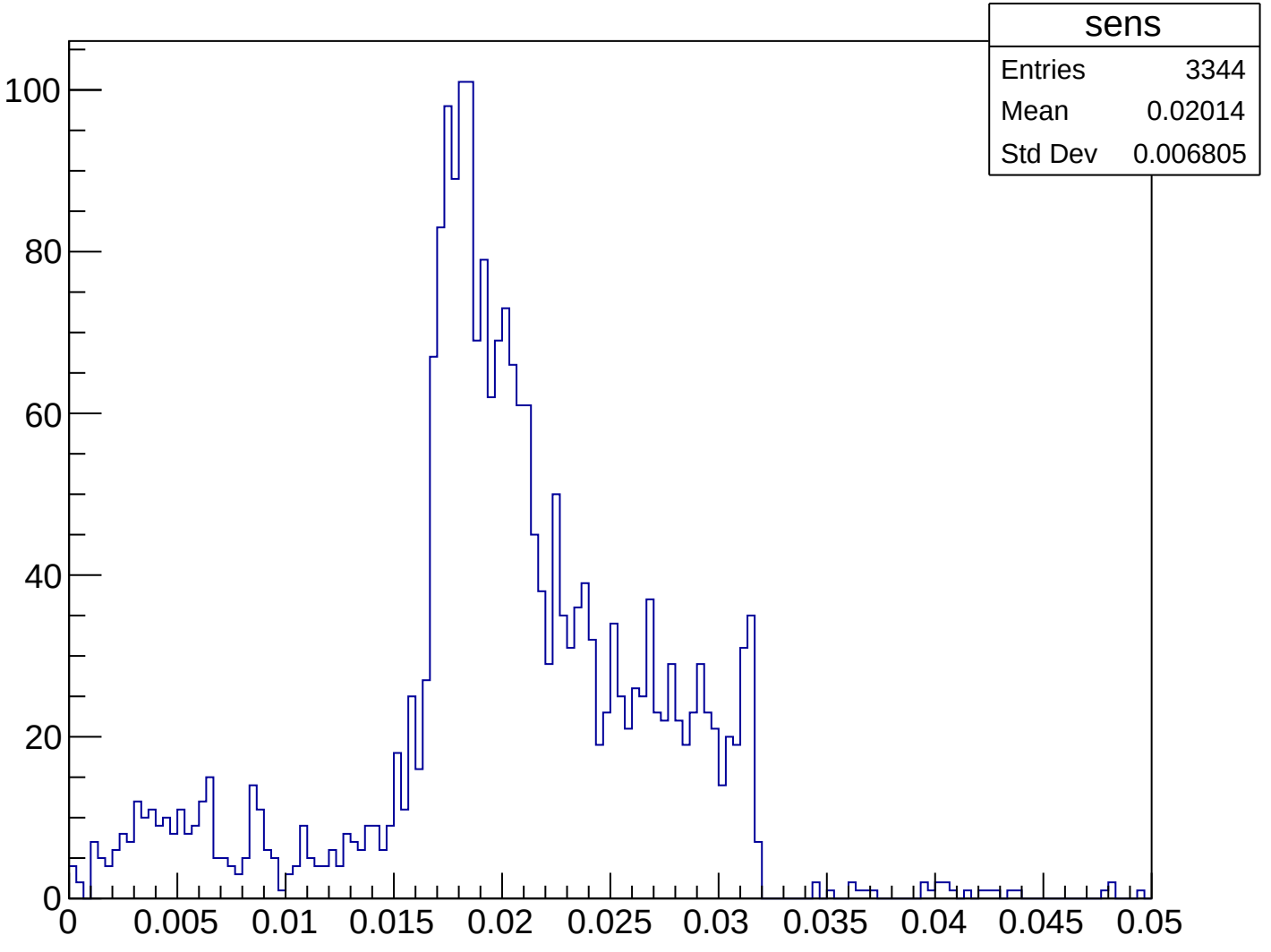

ADC raw (run21185, detZ = 1.3 m)
huq
Entries 707115
Mean 506
Std Dev 18.07
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21185)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 590452
Mean 0.9411
Std Dev 0.008798
hpup2
Entries 297569
Mean 0.9471
Std Dev 0.001098
hpup3
Entries 292883
Mean 0.9349
Std Dev 0.008925
pCut = 0.9485 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.949 GeV
Theta
Entries 3344
Mean 4.686
Std Dev 0.9198
100
80
60
40
20
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), pCut = 0.949 GeV
Asym
Entries 3344
Mean 0.3927
Std Dev 0.2704
900
800
700
600
500
400
300
200
100
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 3344
Mean 0.3843
Std Dev 0.2641
900
800
700
600
500
400
300
200
100
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 3344
Mean 0.005881
Std Dev 0.002365
100
80
60
40
20
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 3344
Mean 0.02014
Std Dev 0.006805
100
80
60
40
20
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05