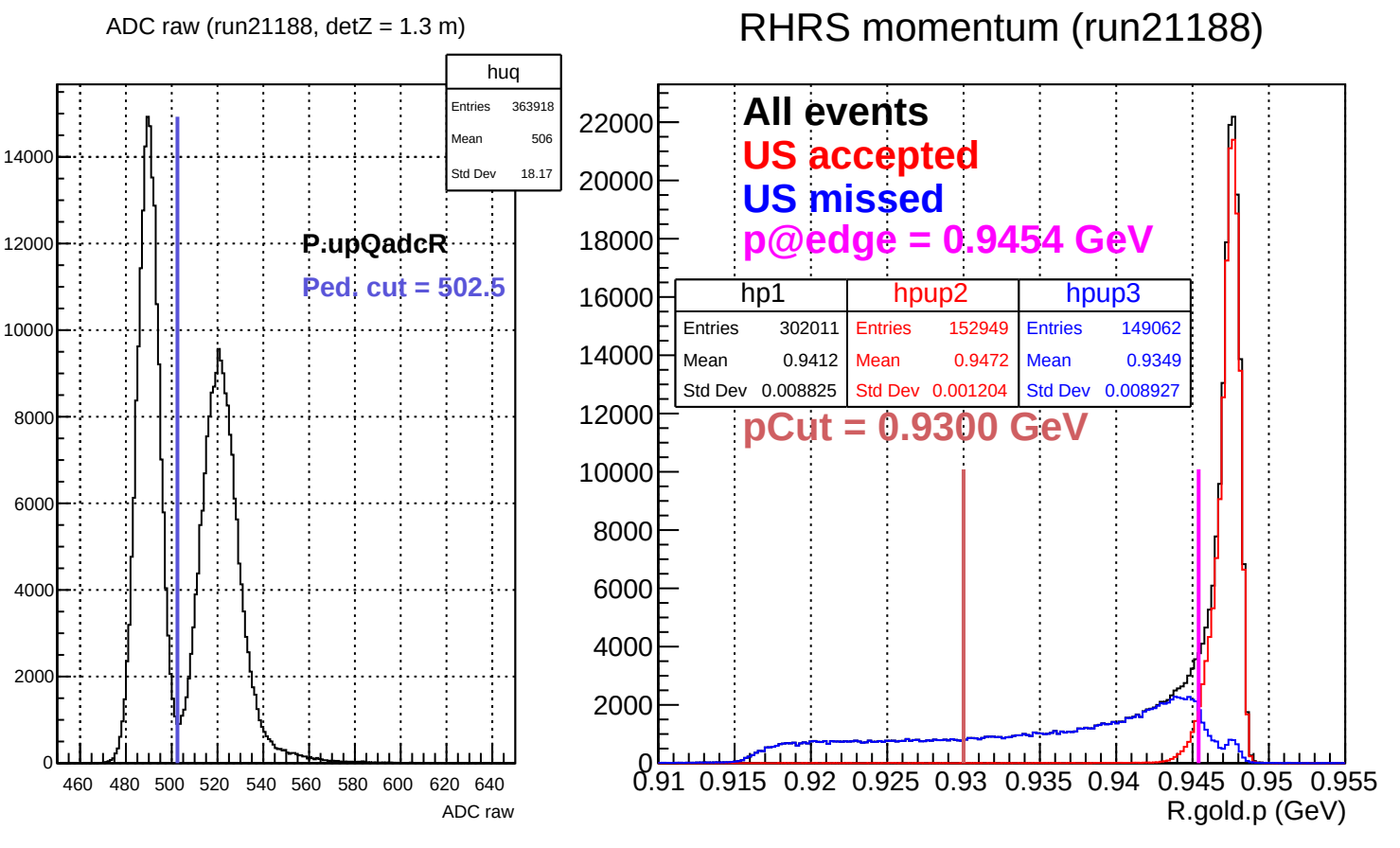
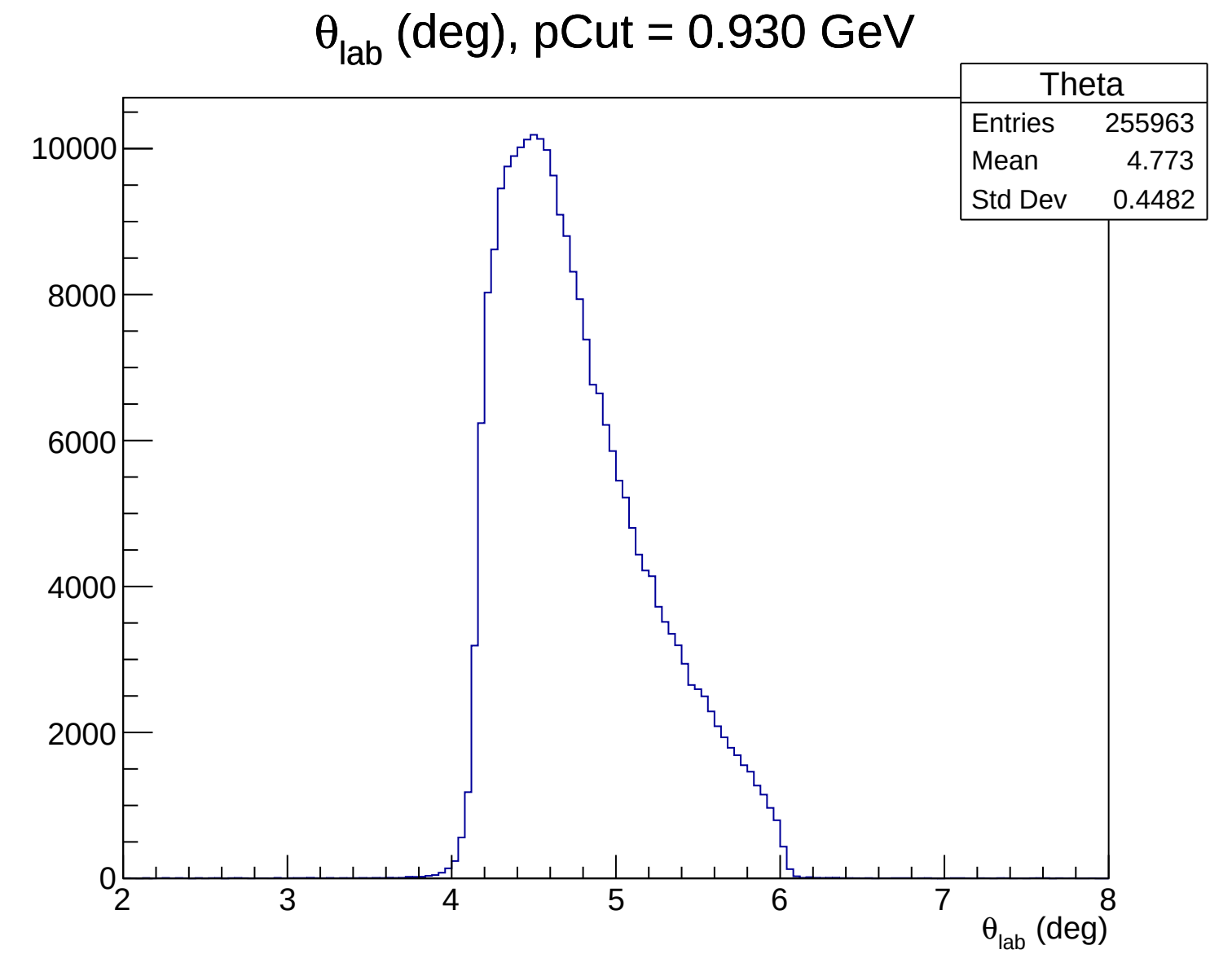
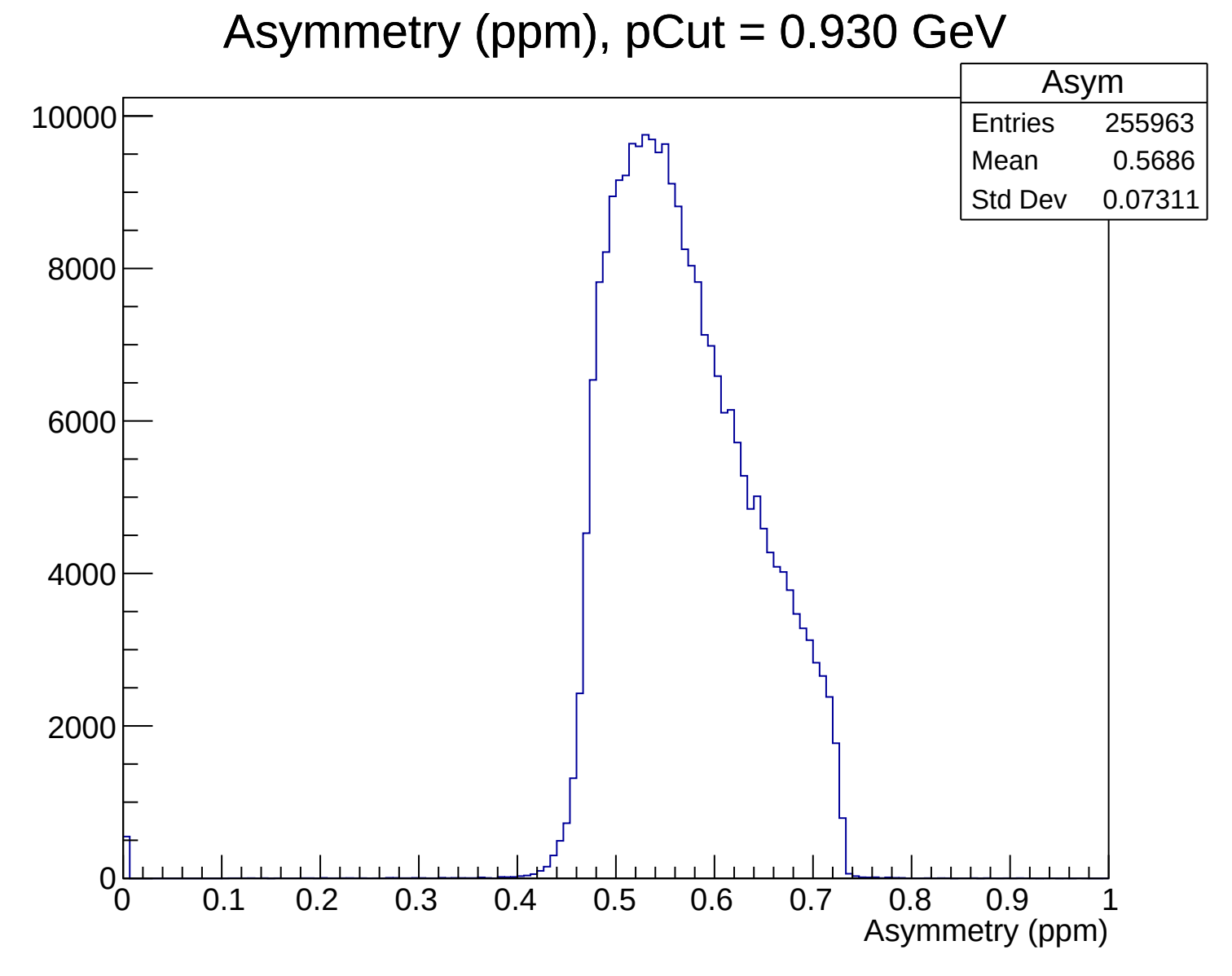
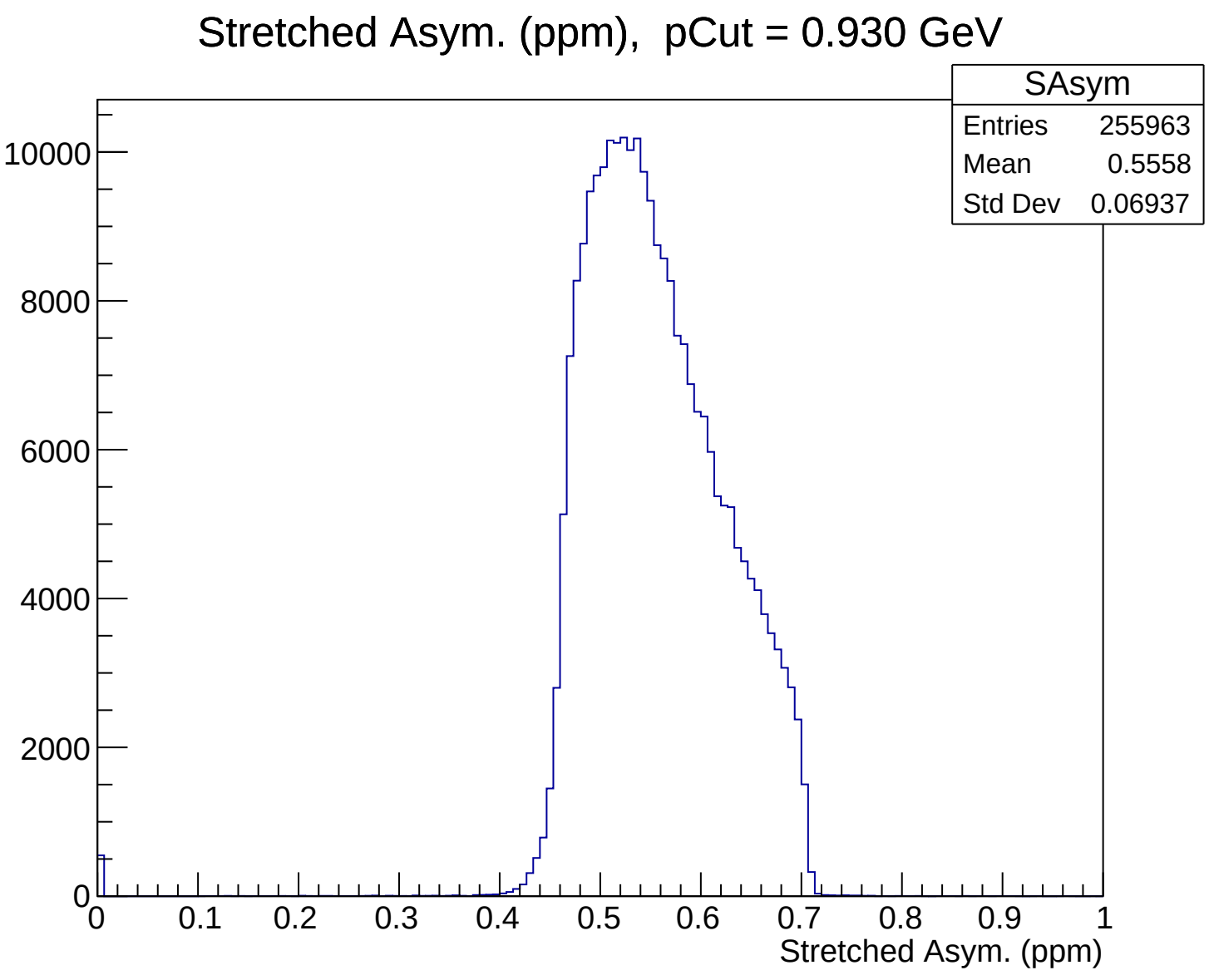
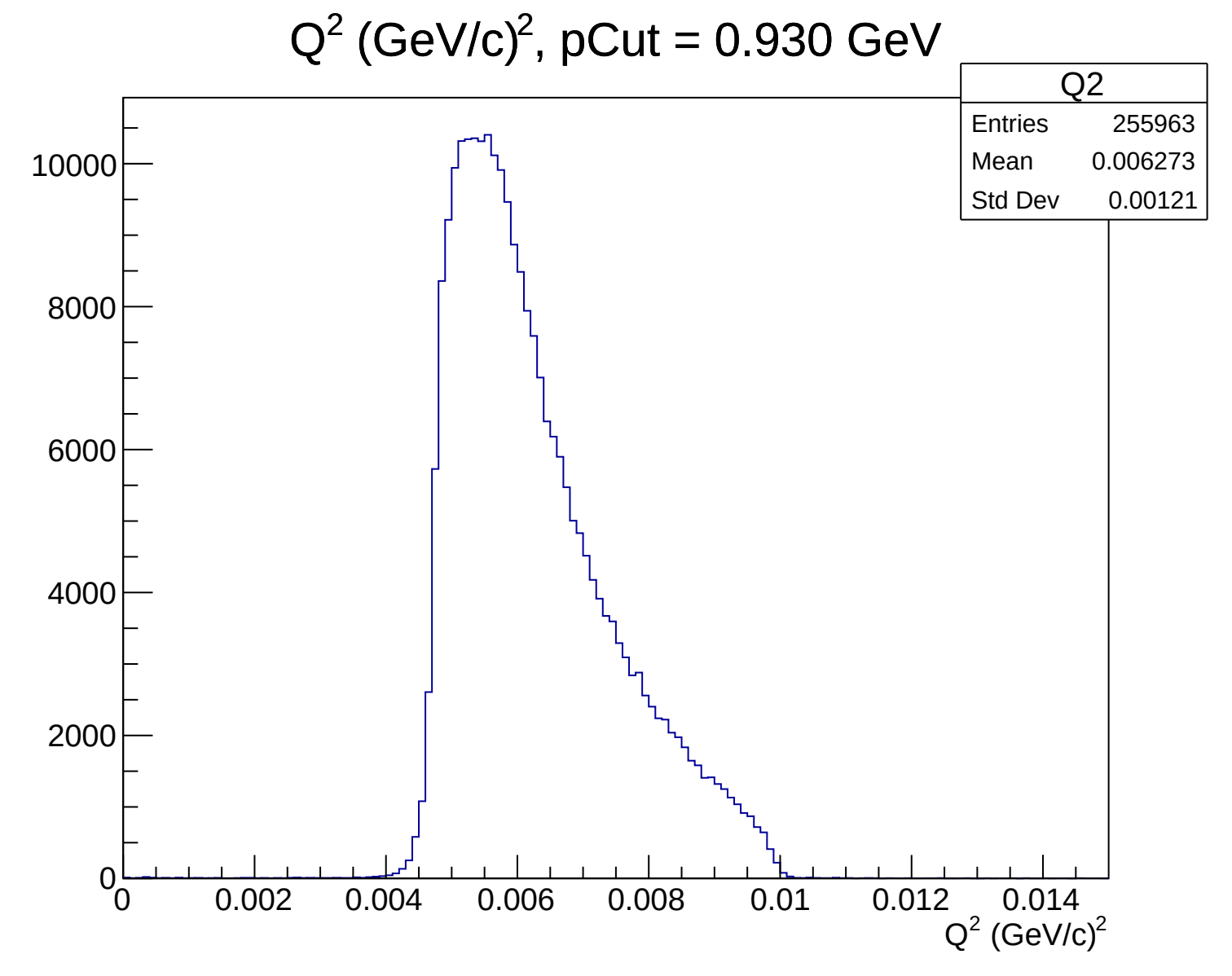
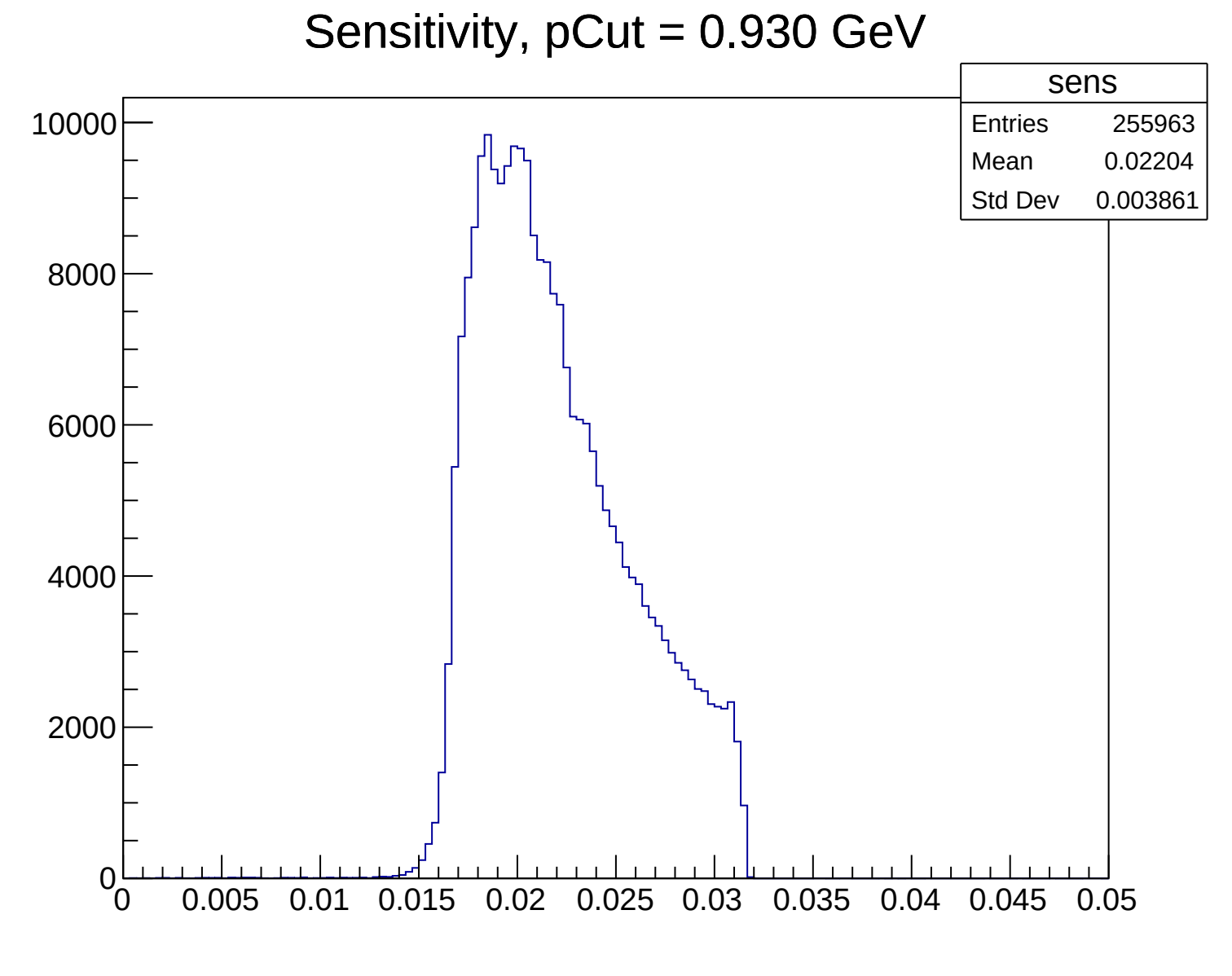

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9300 GeV
R.gold.p (GeV)

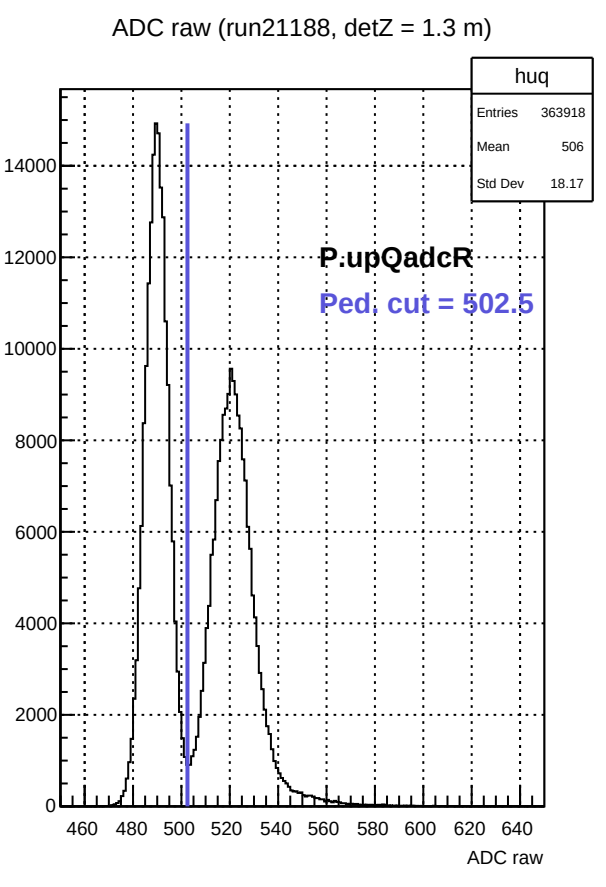

θlab (deg), pCut = 0.930 GeV
Theta
Entries 255963
Mean 4.773
Std Dev 0.4482
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

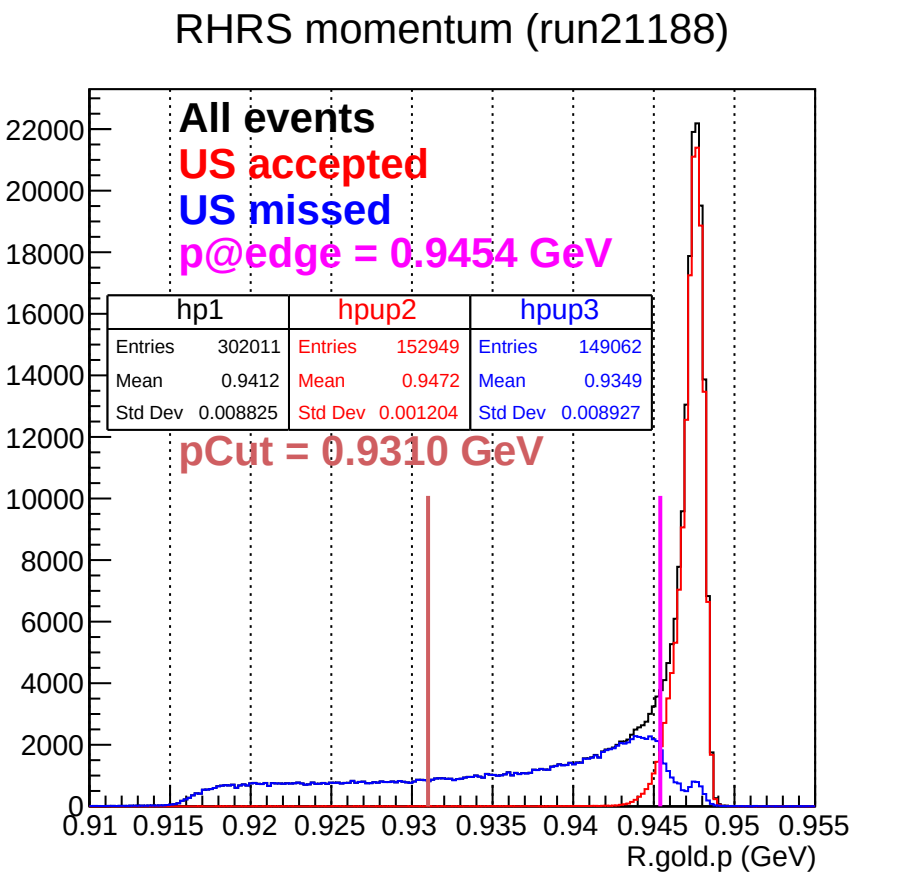

Asymmetry (ppm), pCut = 0.930 GeV
Asym
Entries 255963
Mean 0.5686
Std Dev 0.07311
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

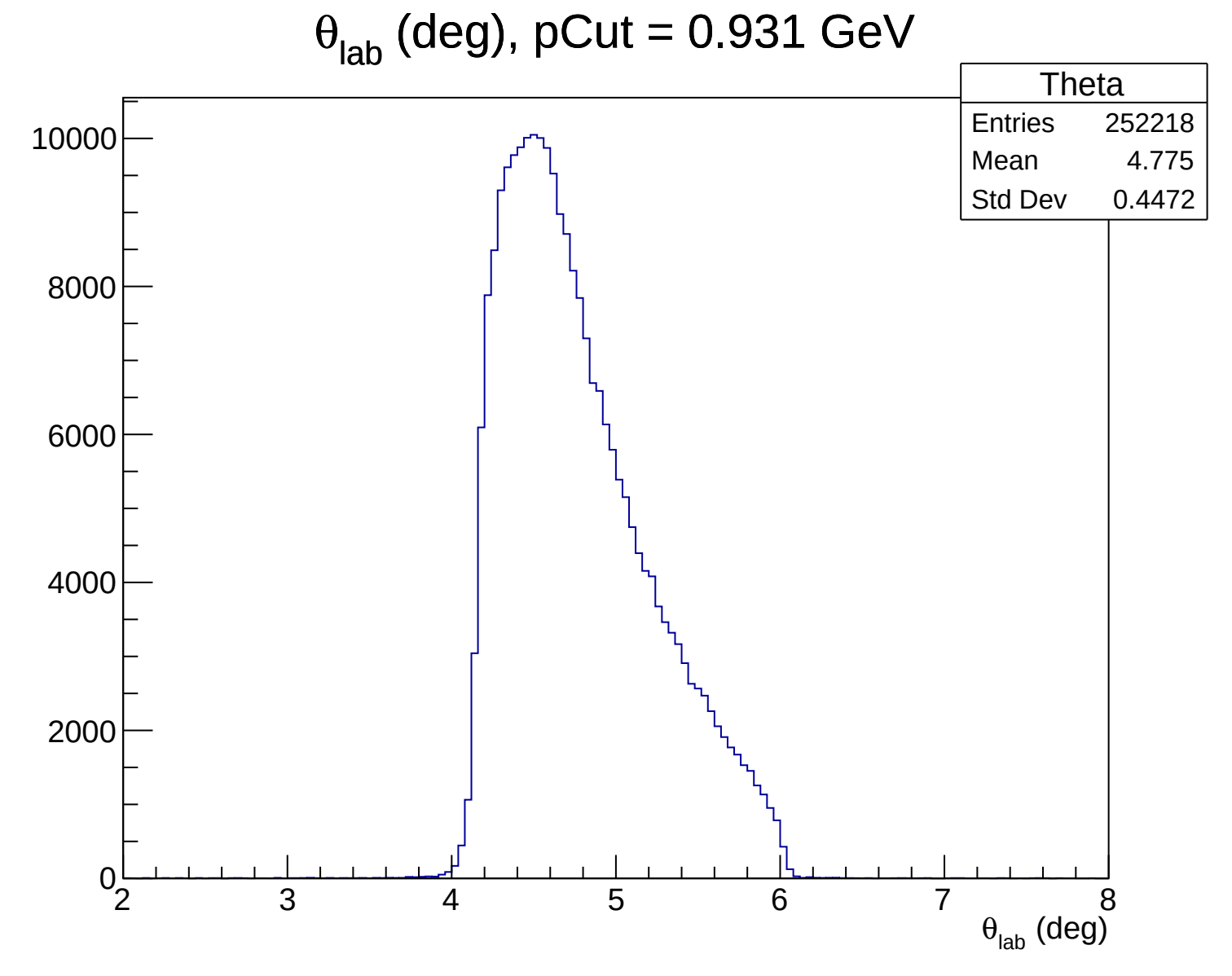

Stretched Asym. (ppm), pCut = 0.930 GeV
SAsym
Entries 255963
Mean 0.5558
Std Dev 0.06937
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

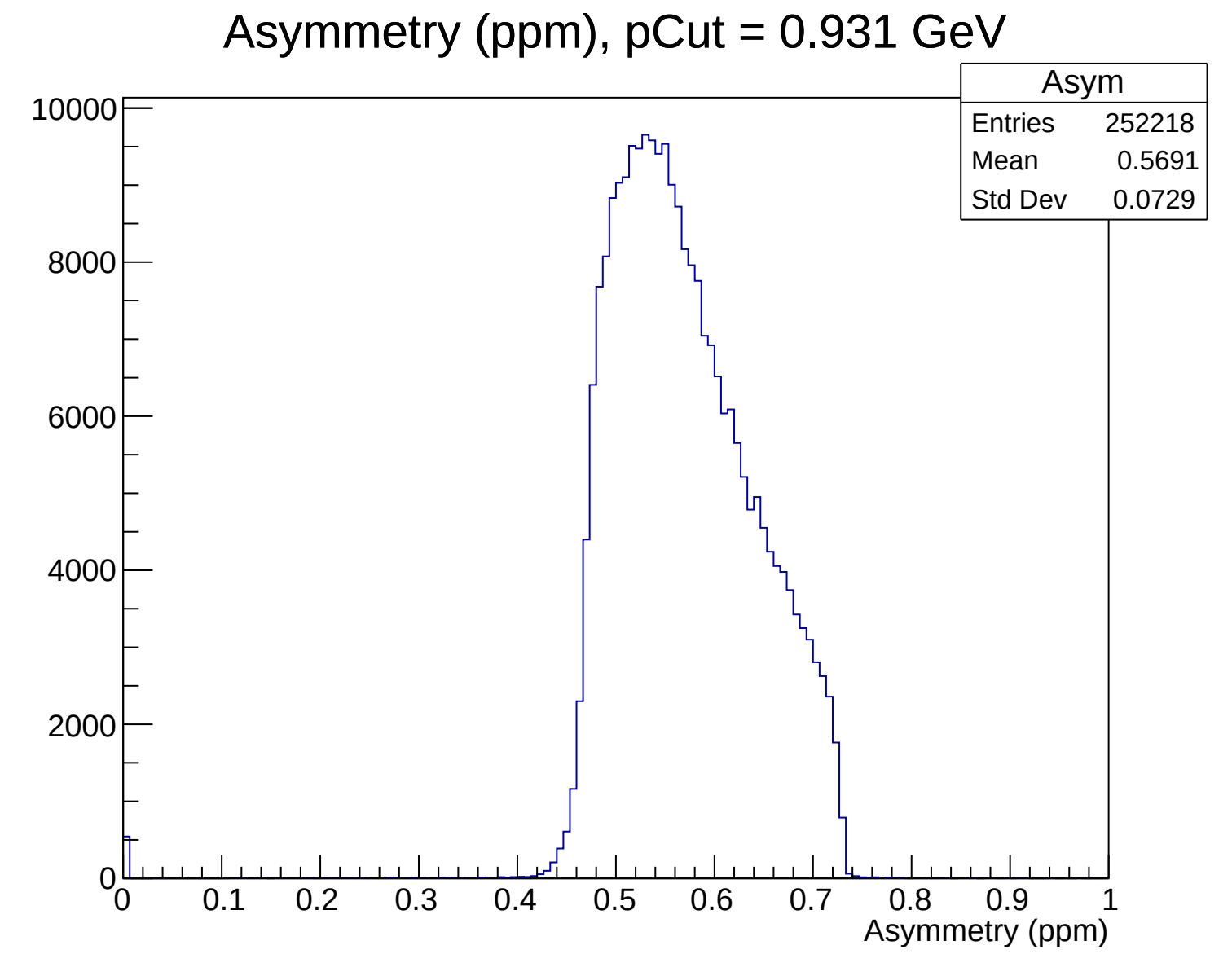

Q^2 (GeV/c)^2, pCut = 0.930 GeV
Q2
Entries 255963
Mean 0.006273
Std Dev 0.00121
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

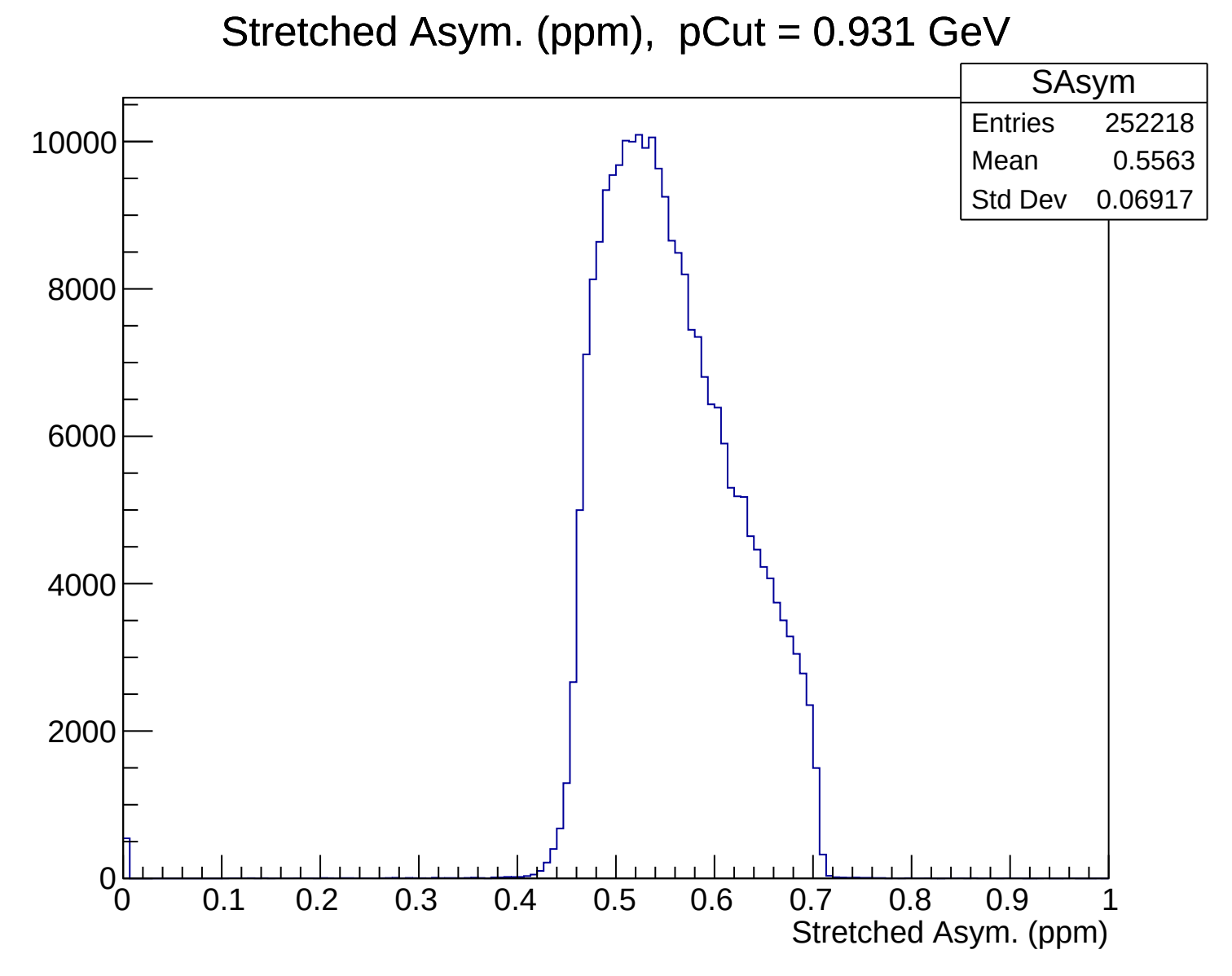

Sensitivity, pCut = 0.930 GeV
sens
Entries 255963
Mean 0.02204
Std Dev 0.003861
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

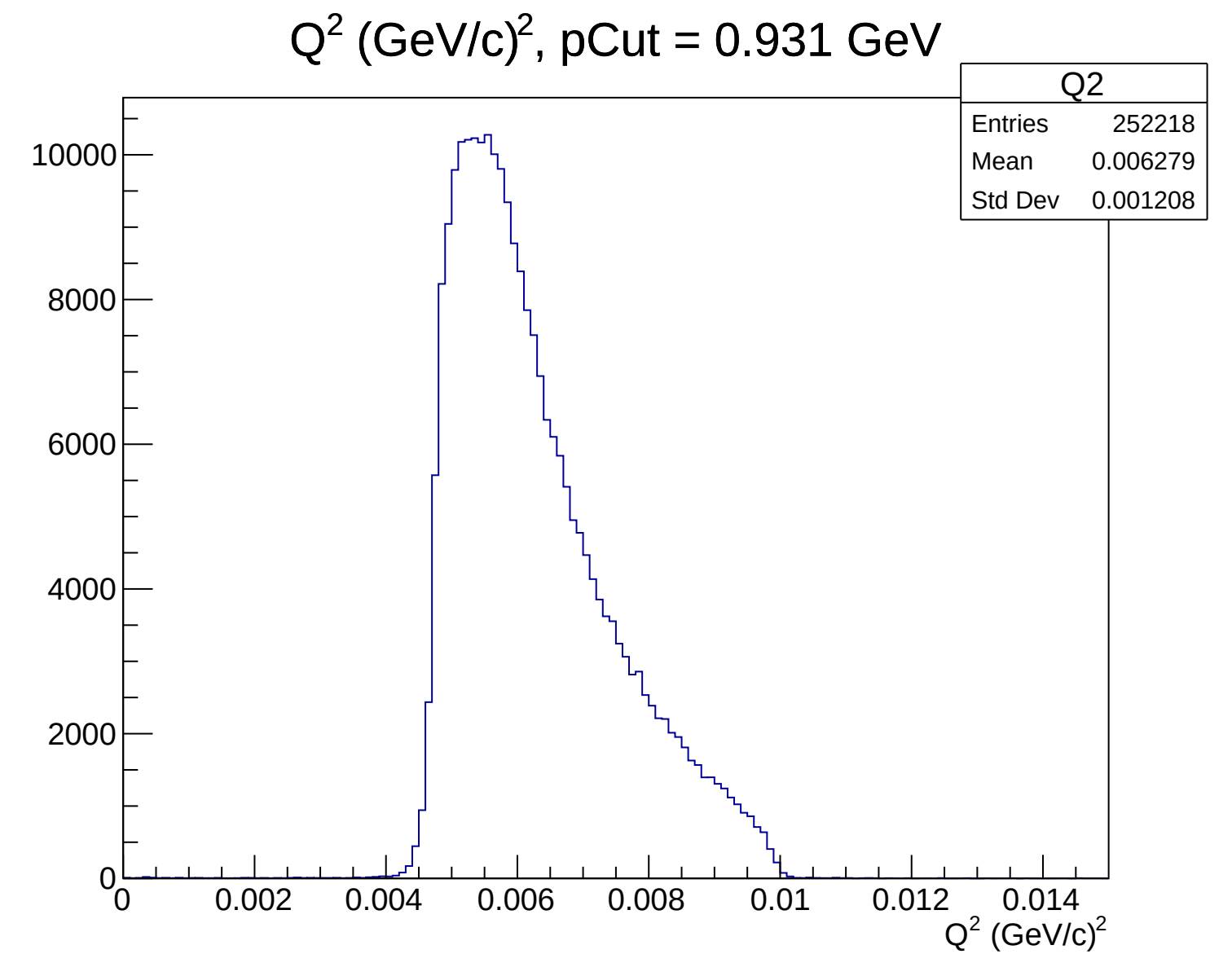

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

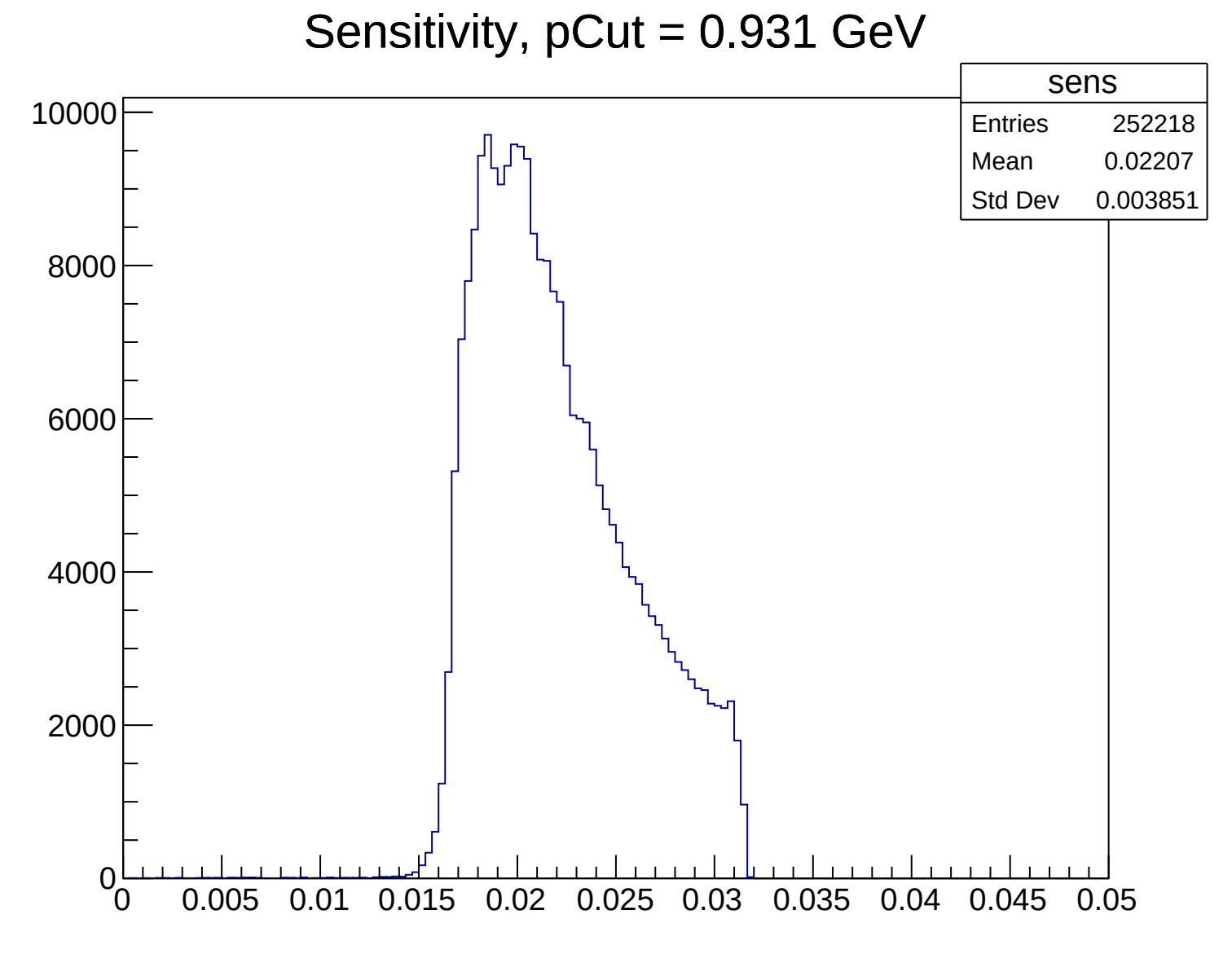

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9310 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

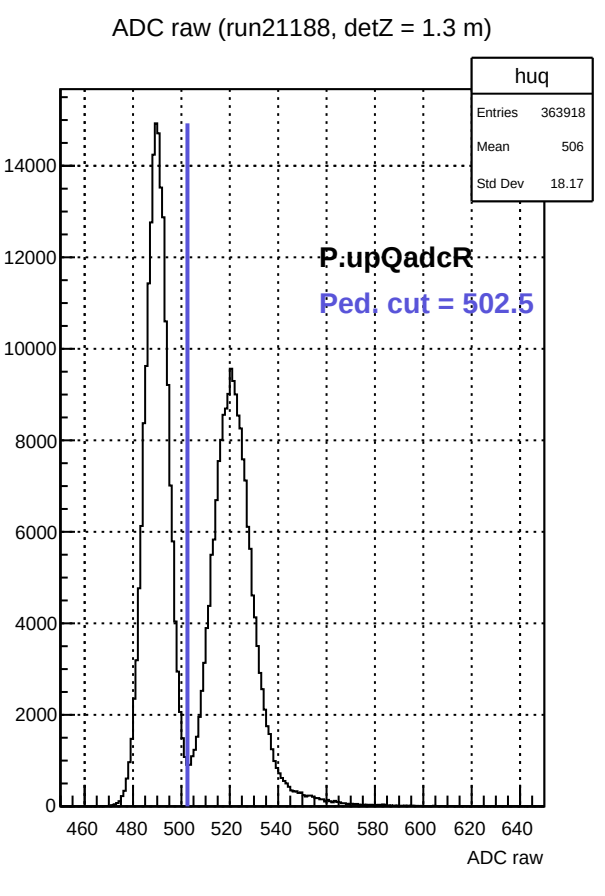

θlab (deg), pCut = 0.931 GeV
Theta
Entries 252218
Mean 4.775
Std Dev 0.4472
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

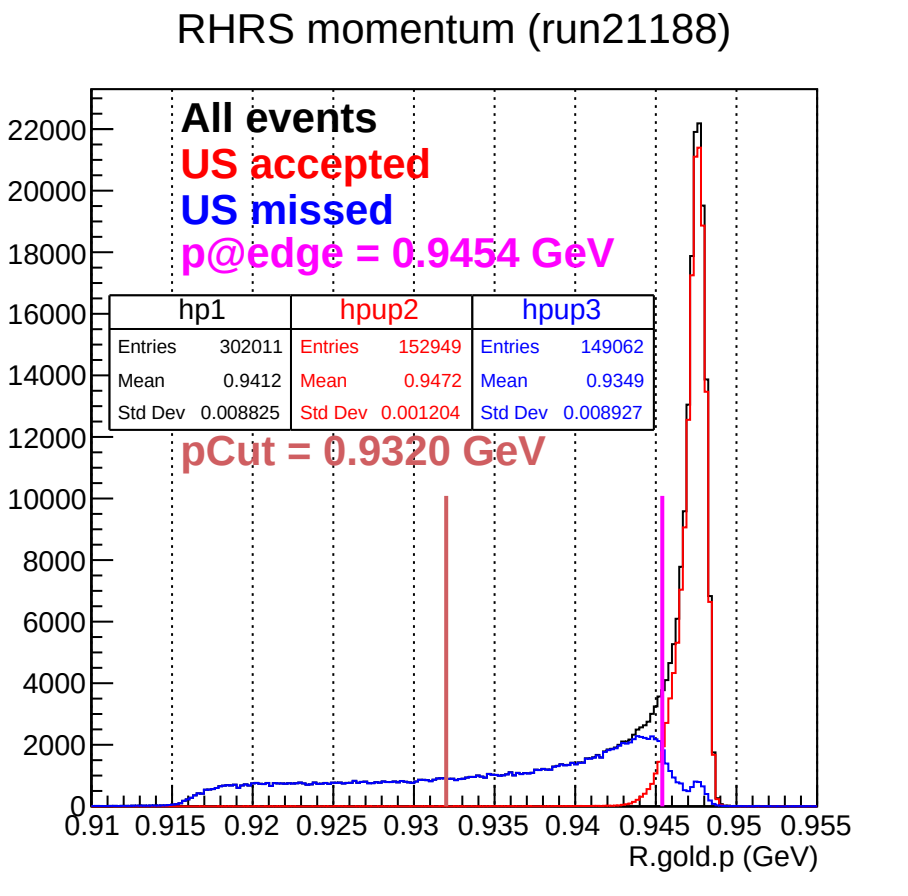

Asymmetry (ppm), pCut = 0.931 GeV
Asym
Entries 252218
Mean 0.5691
Std Dev 0.0729
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

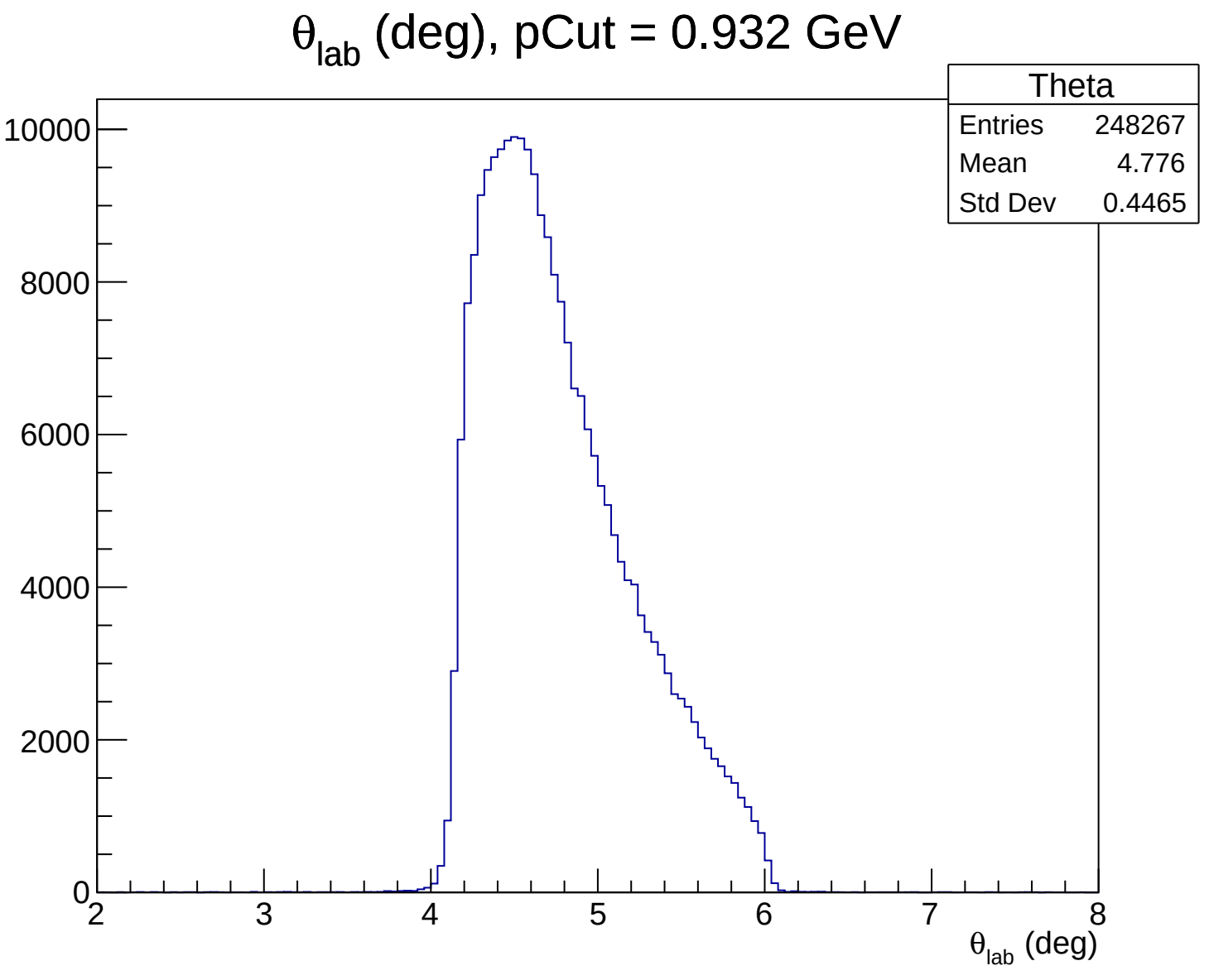

Stretched Asym. (ppm), pCut = 0.931 GeV
SAsym
Entries 252218
Mean 0.5563
Std Dev 0.06917
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

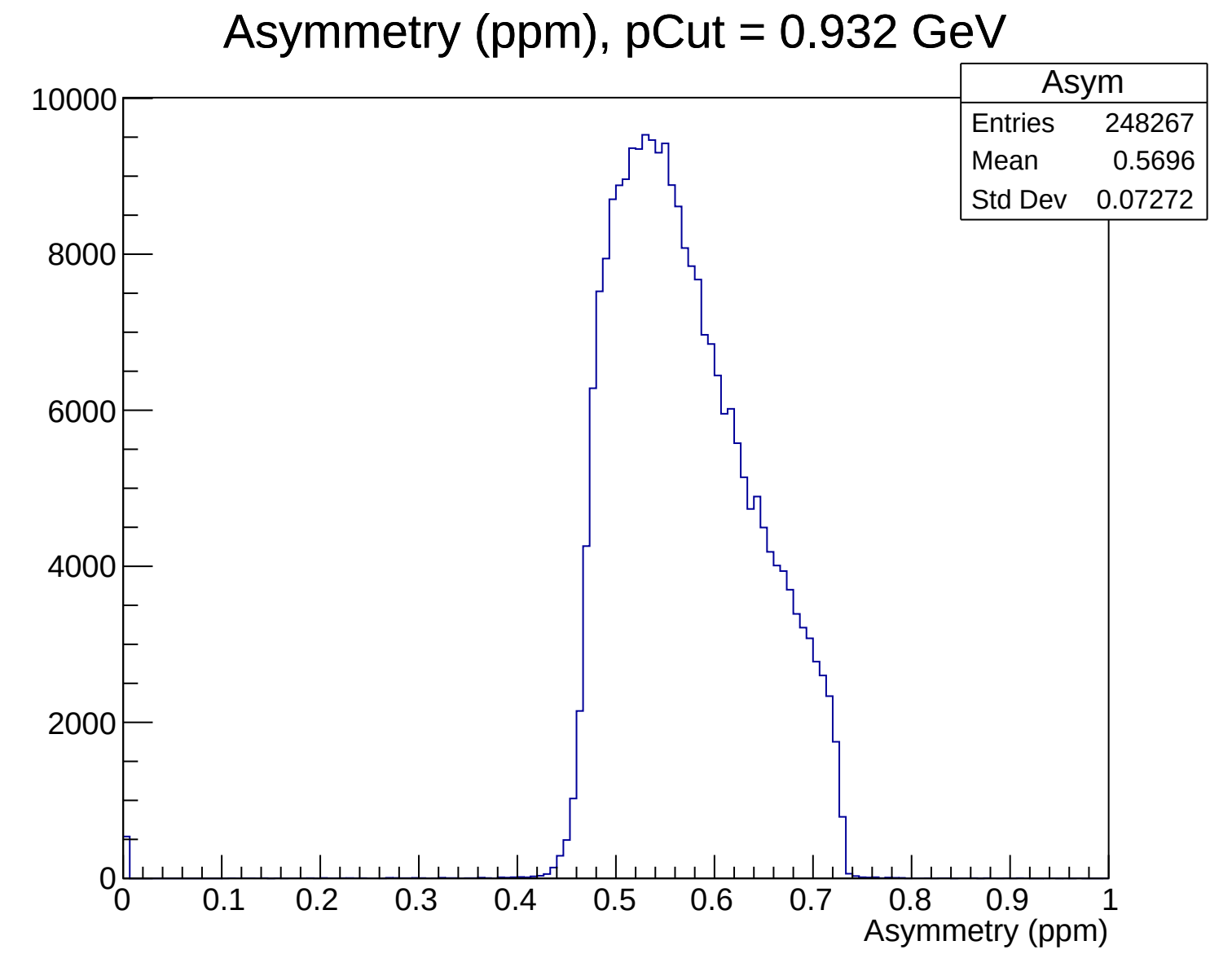

Q^2 (GeV/c)^2, pCut = 0.931 GeV
Q2
Entries 252218
Mean 0.006279
Std Dev 0.001208
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

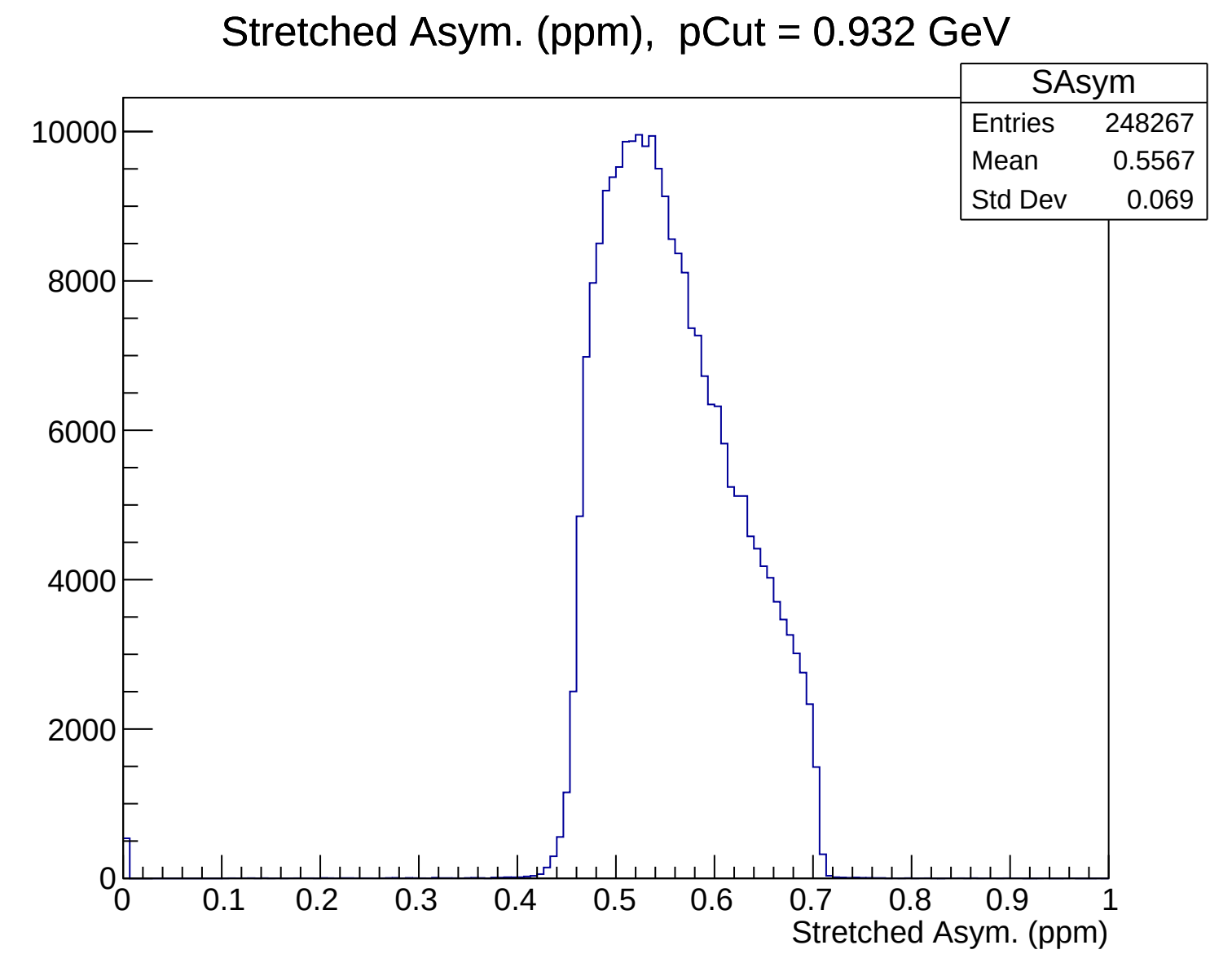

Sensitivity, pCut = 0.931 GeV
sens
Entries 252218
Mean 0.02207
Std Dev 0.003851
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

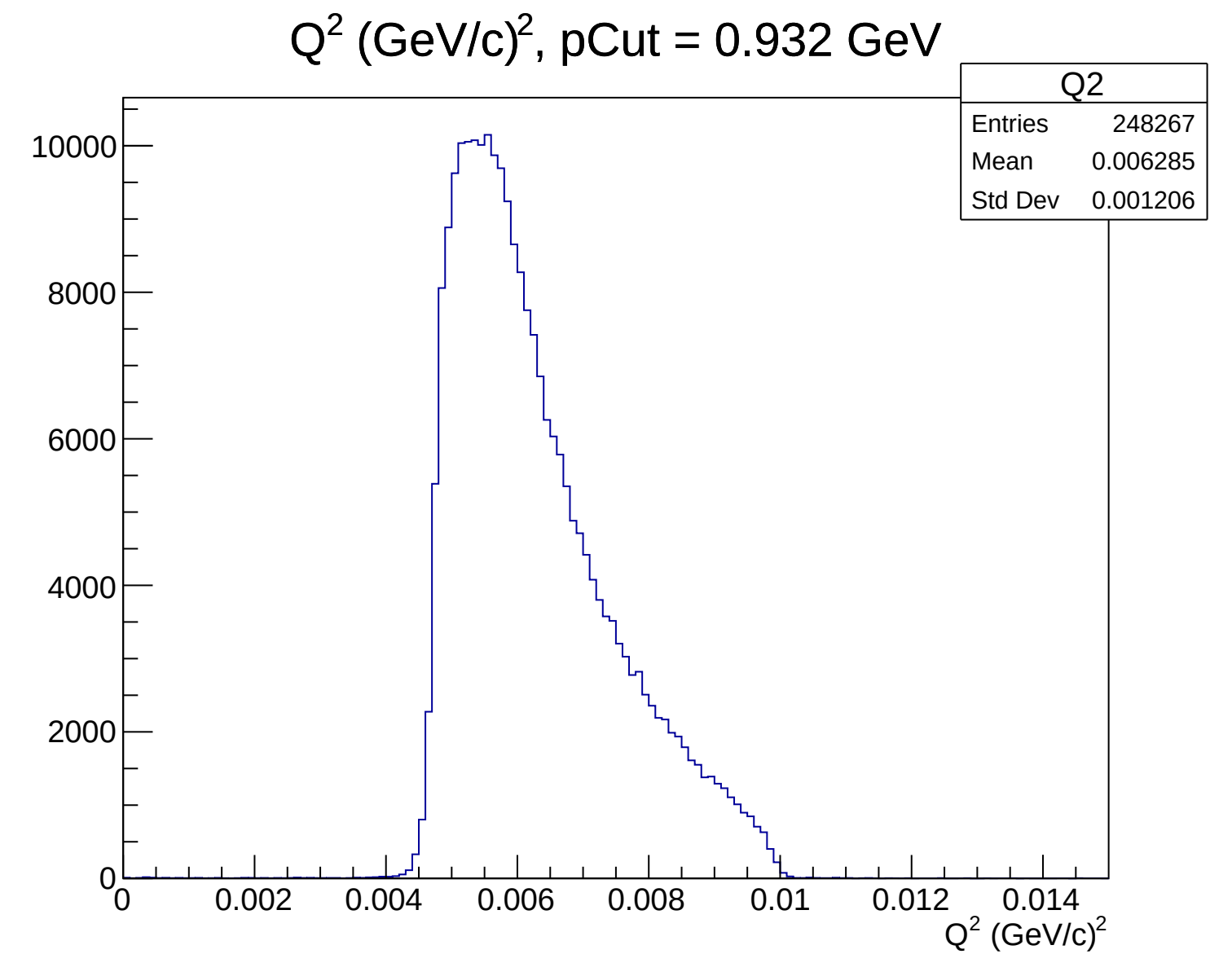

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

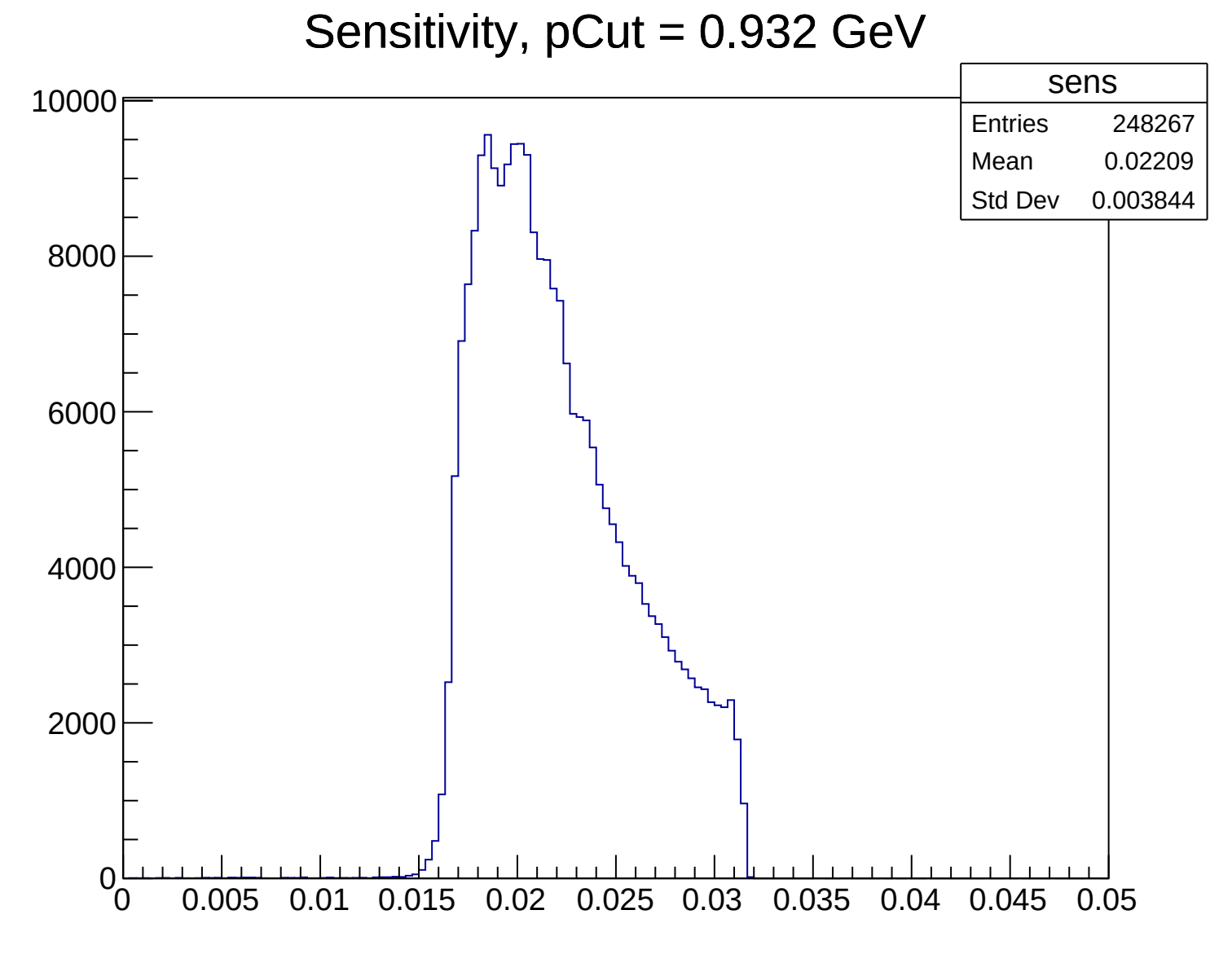

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9320 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

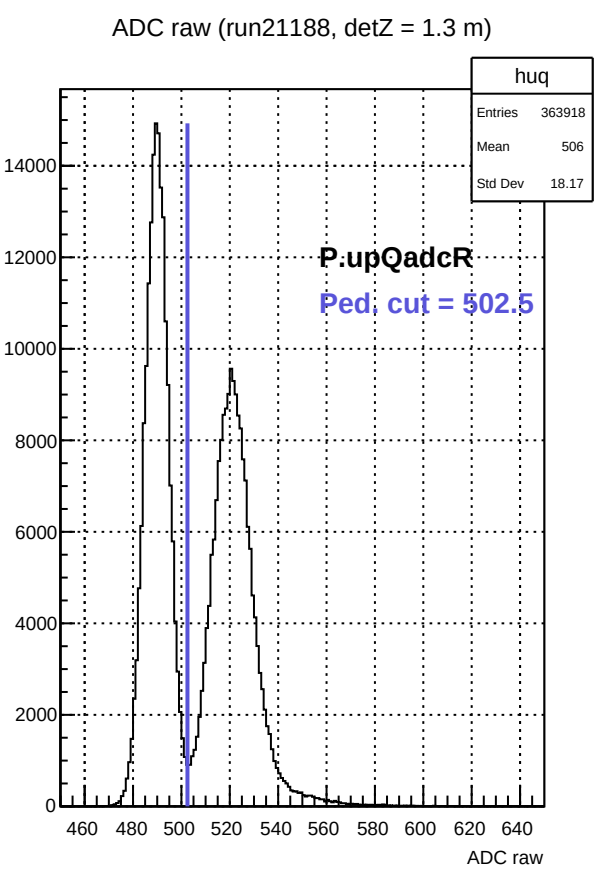

θlab (deg), pCut = 0.932 GeV
Theta
Entries 248267
Mean 4.776
Std Dev 0.4465
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

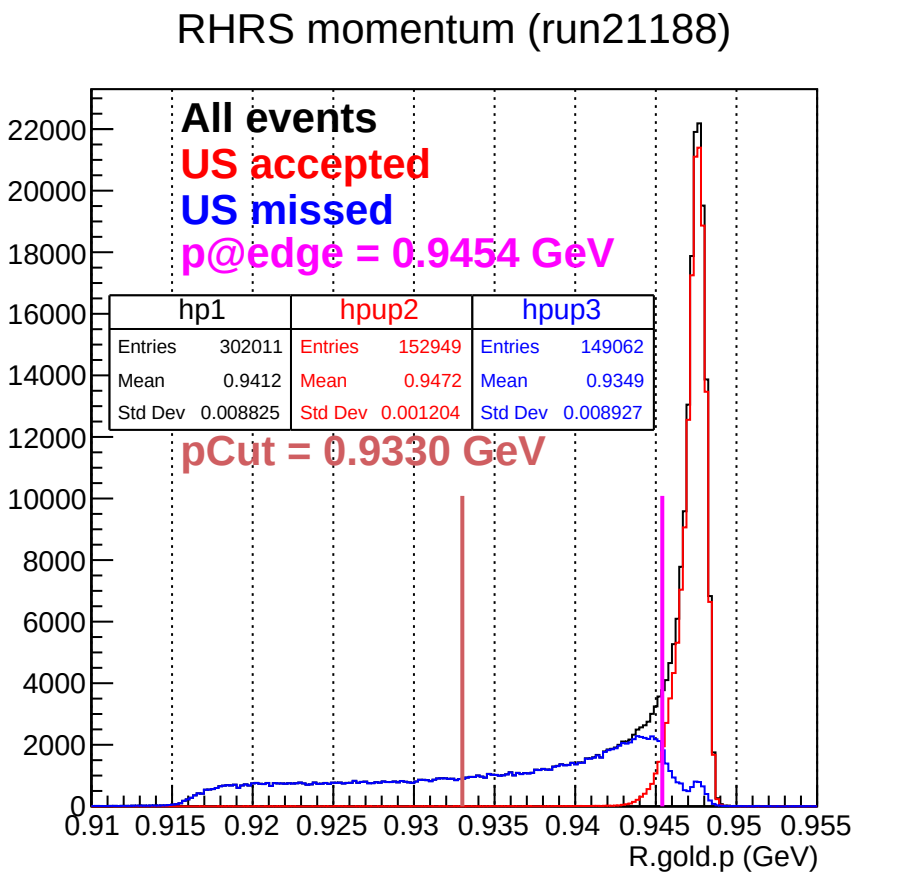

Asymmetry (ppm), pCut = 0.932 GeV
Asym
Entries 248267
Mean 0.5696
Std Dev 0.07272
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

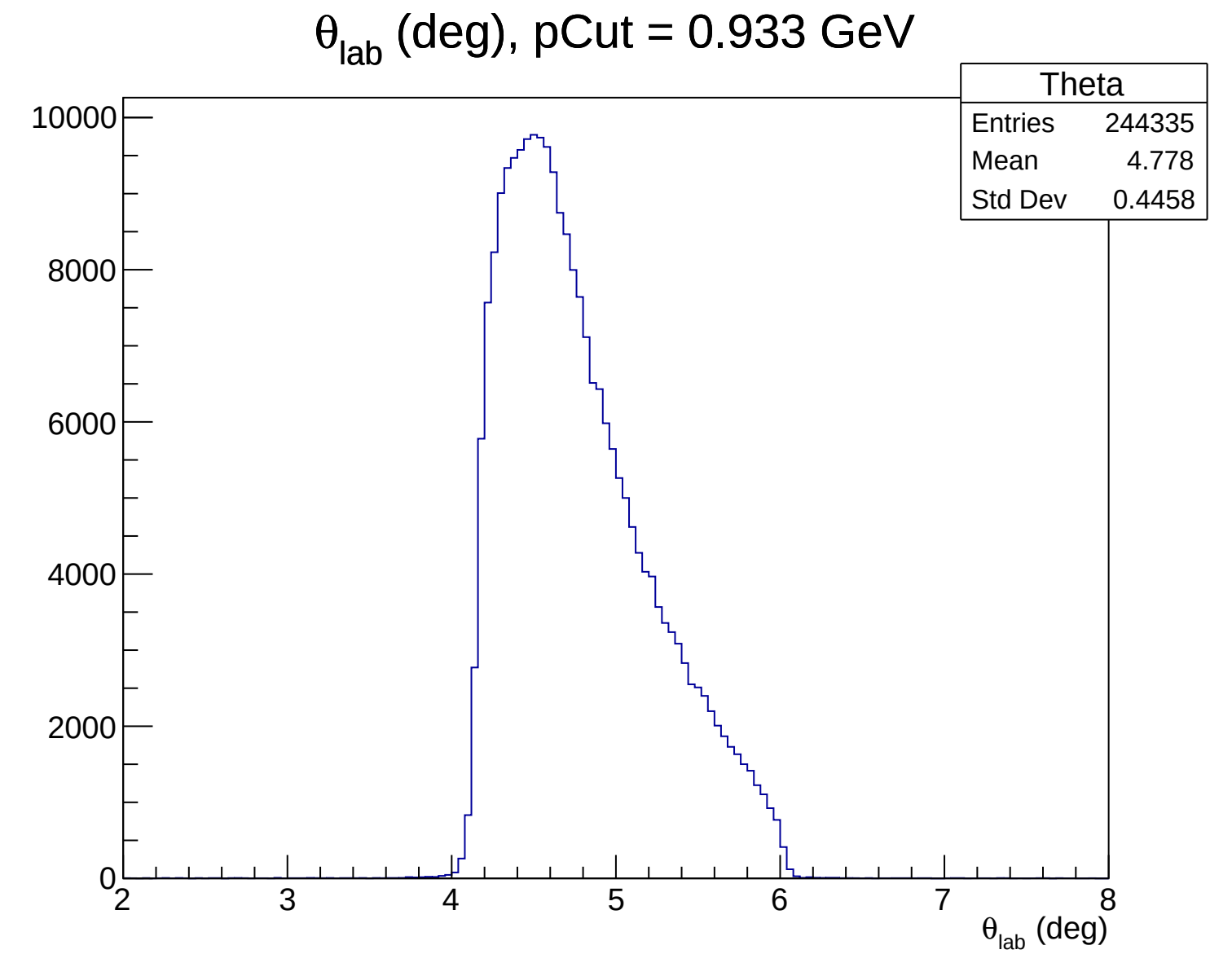

Stretched Asym. (ppm), pCut = 0.932 GeV
SAsym
Entries 248267
Mean 0.5567
Std Dev 0.069
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

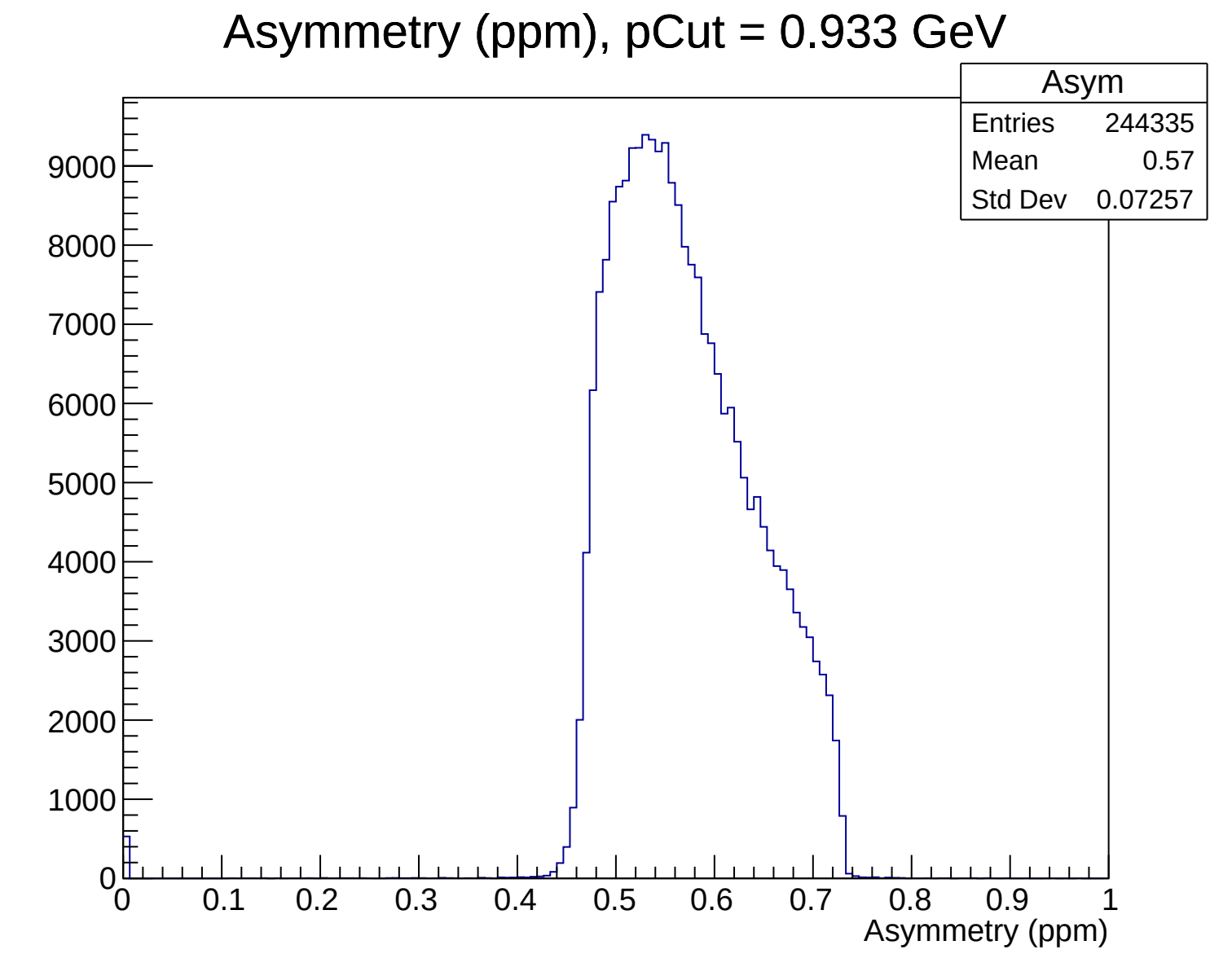

Q^2 (GeV/c)^2, pCut = 0.932 GeV
Q2
Entries 248267
Mean 0.006285
Std Dev 0.001206
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

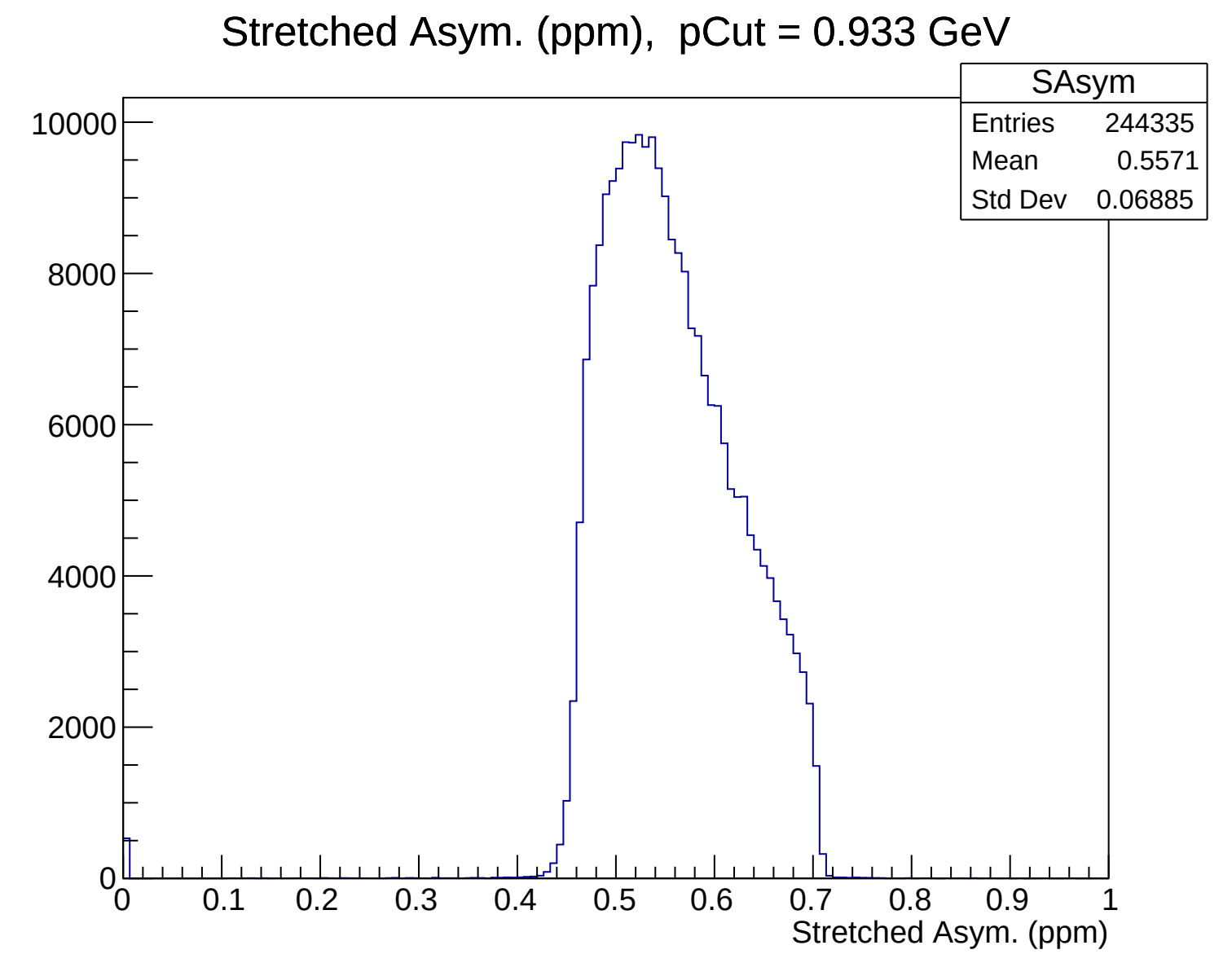

Sensitivity, pCut = 0.932 GeV
sens
Entries 248267
Mean 0.02209
Std Dev 0.003844
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

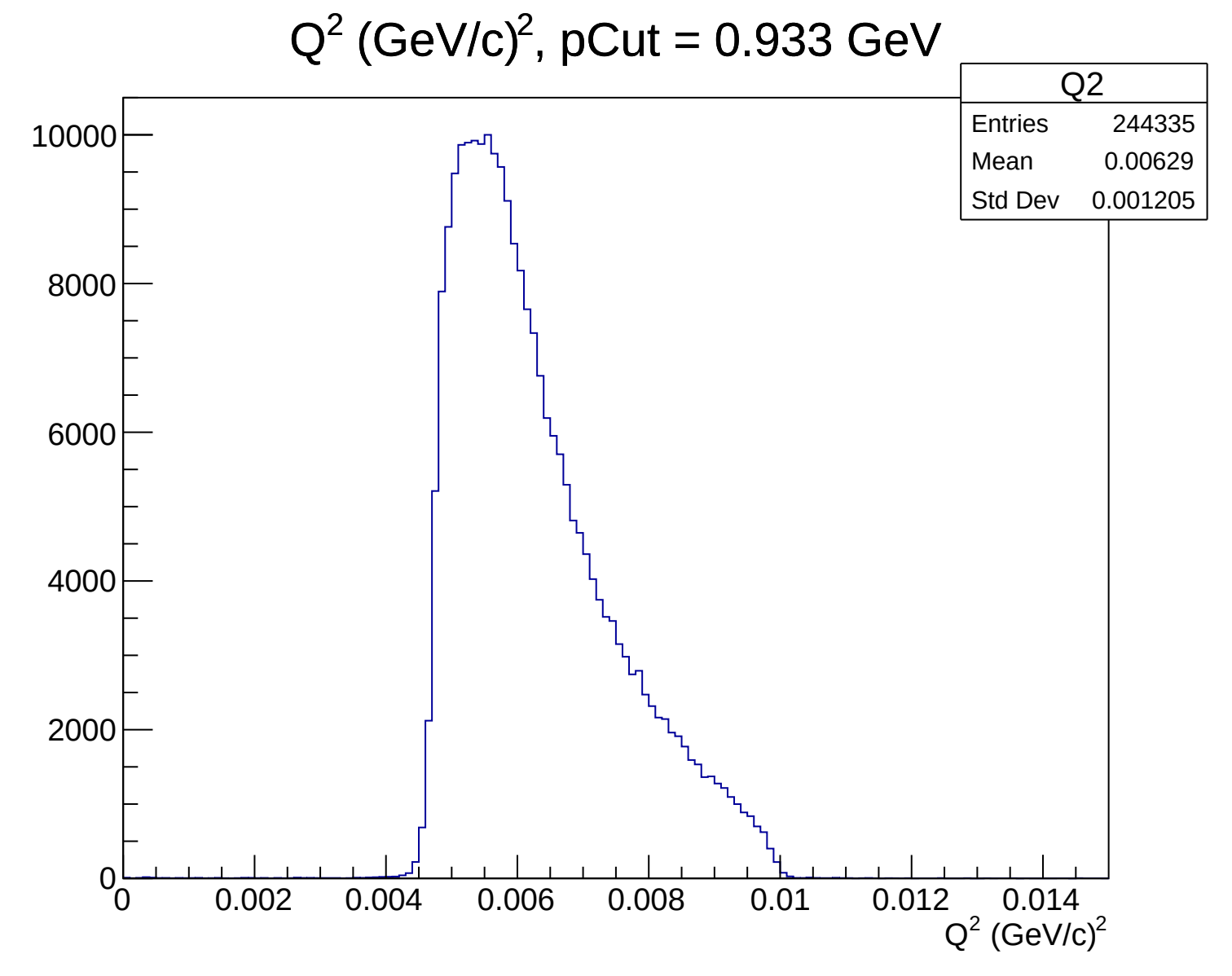

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

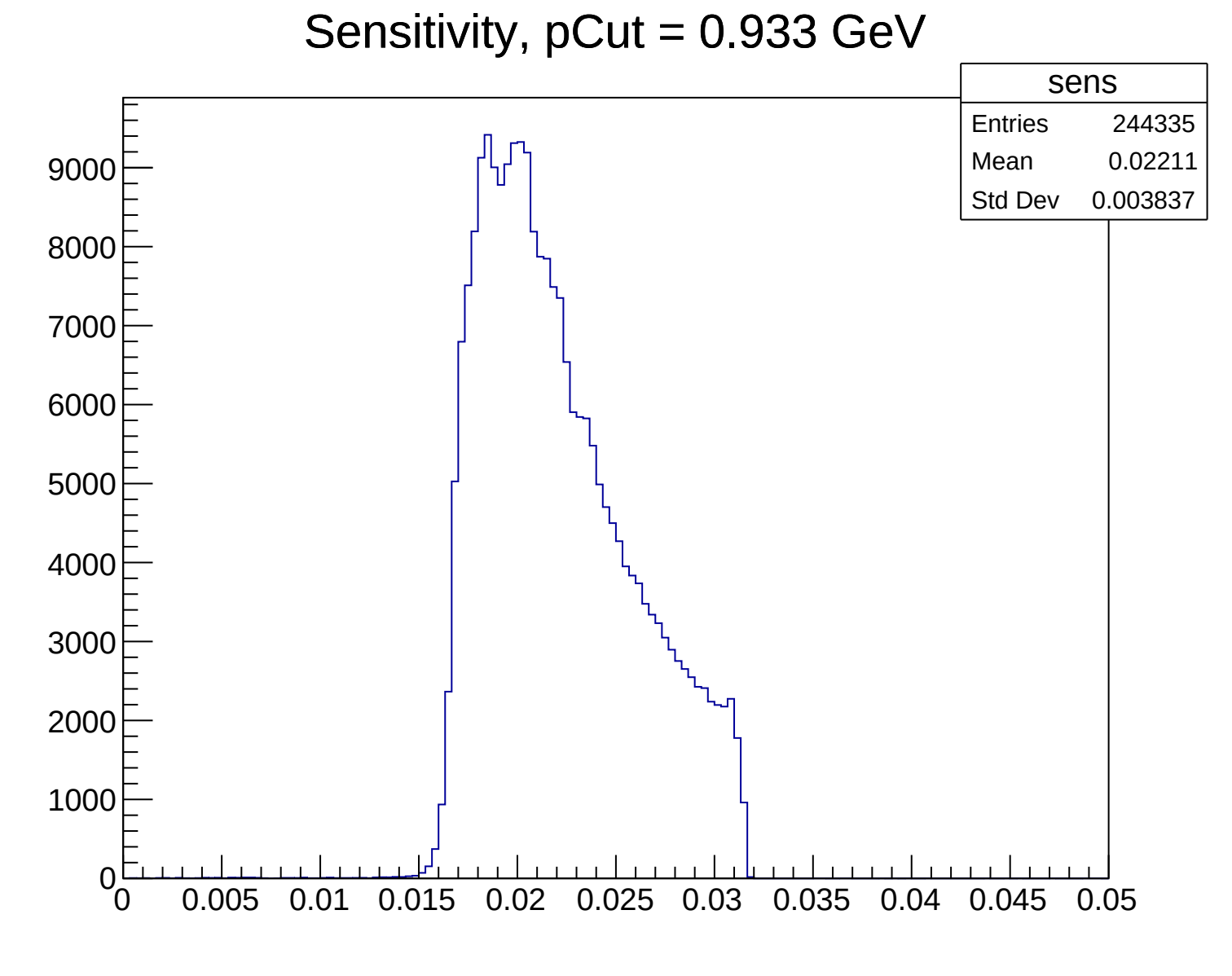

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9330 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

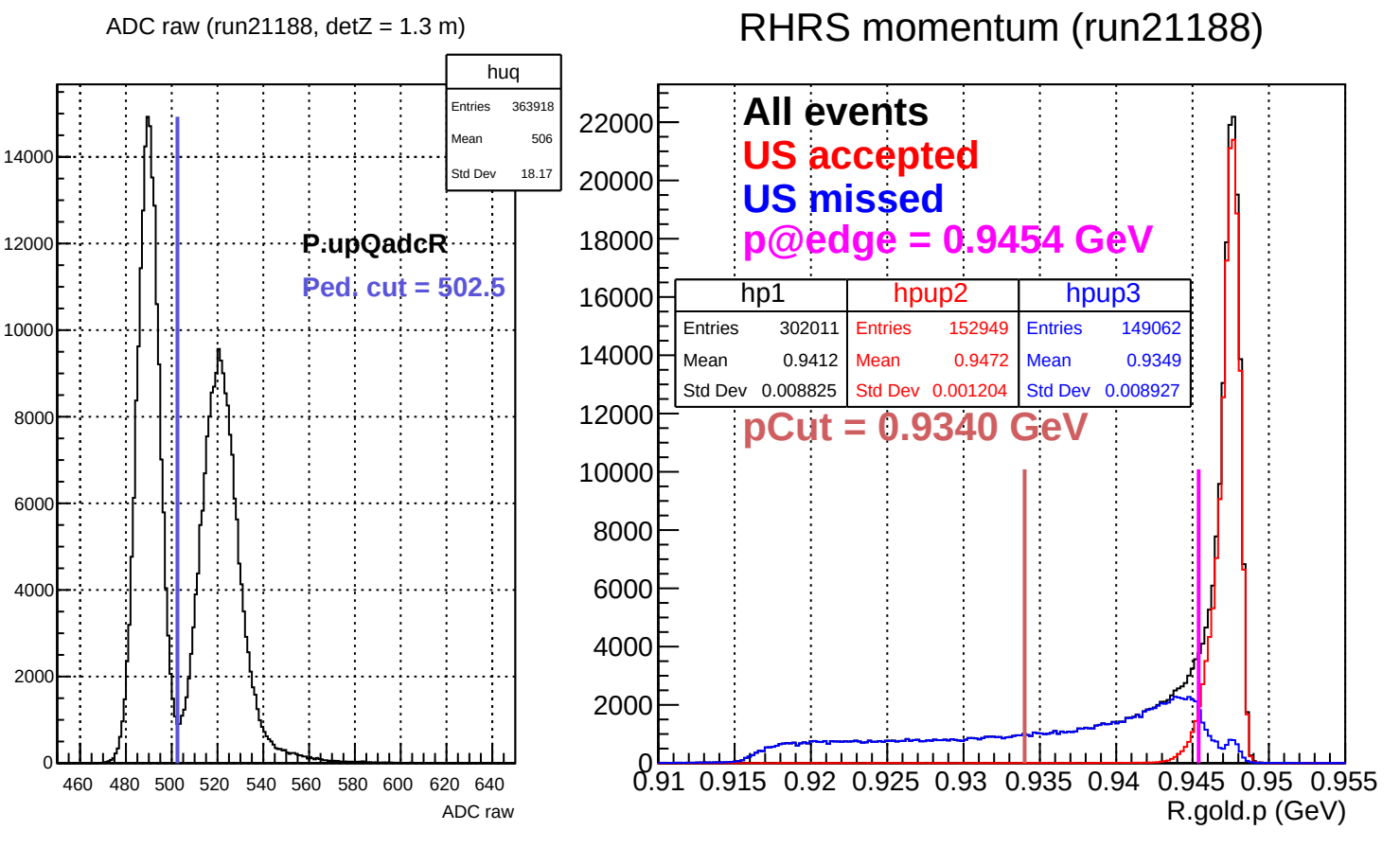

θlab (deg), pCut = 0.933 GeV
Theta
Entries 244335
Mean 4.778
Std Dev 0.4458
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

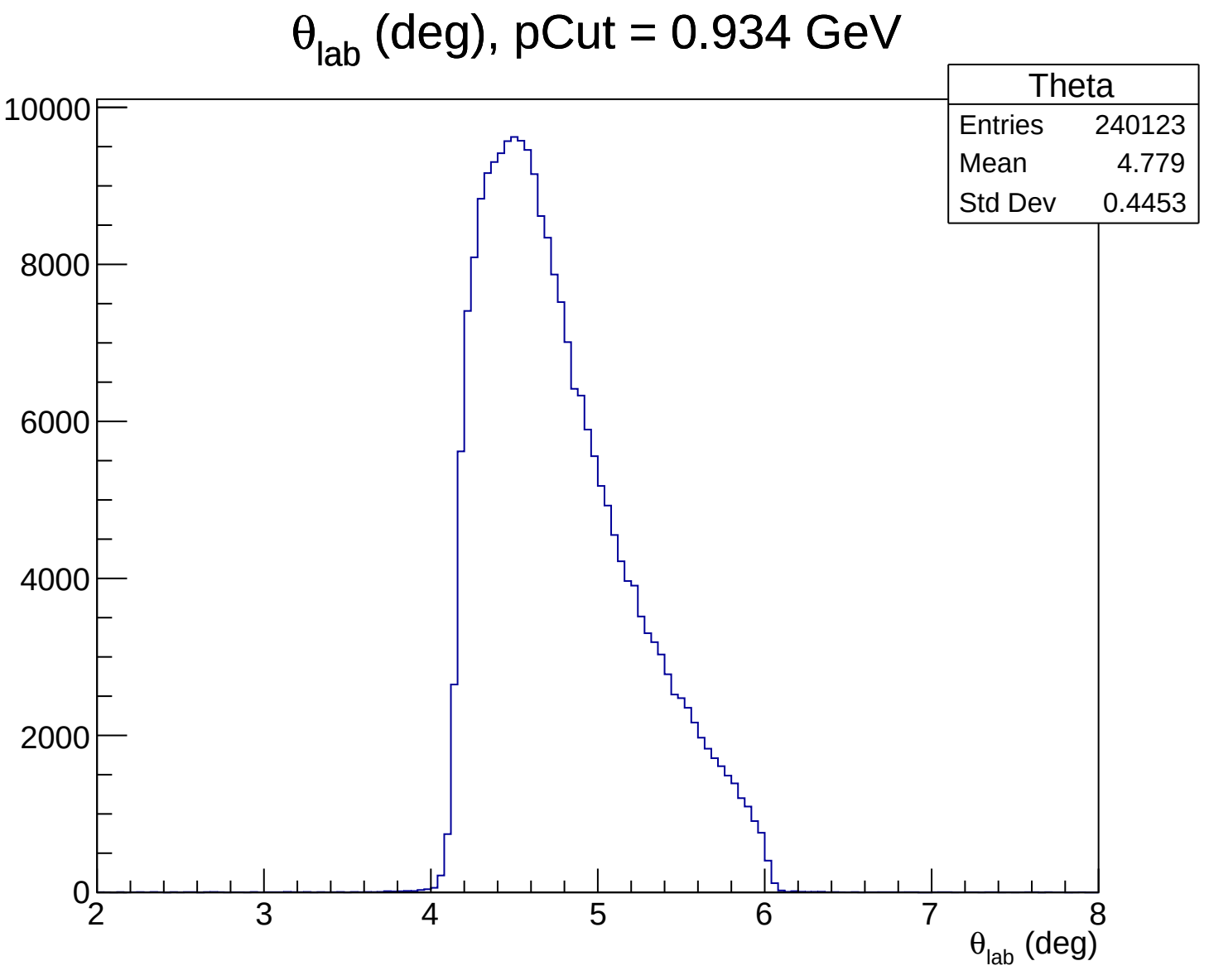

Asymmetry (ppm), pCut = 0.933 GeV
Asym
Entries 244335
Mean 0.57
Std Dev 0.07257
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

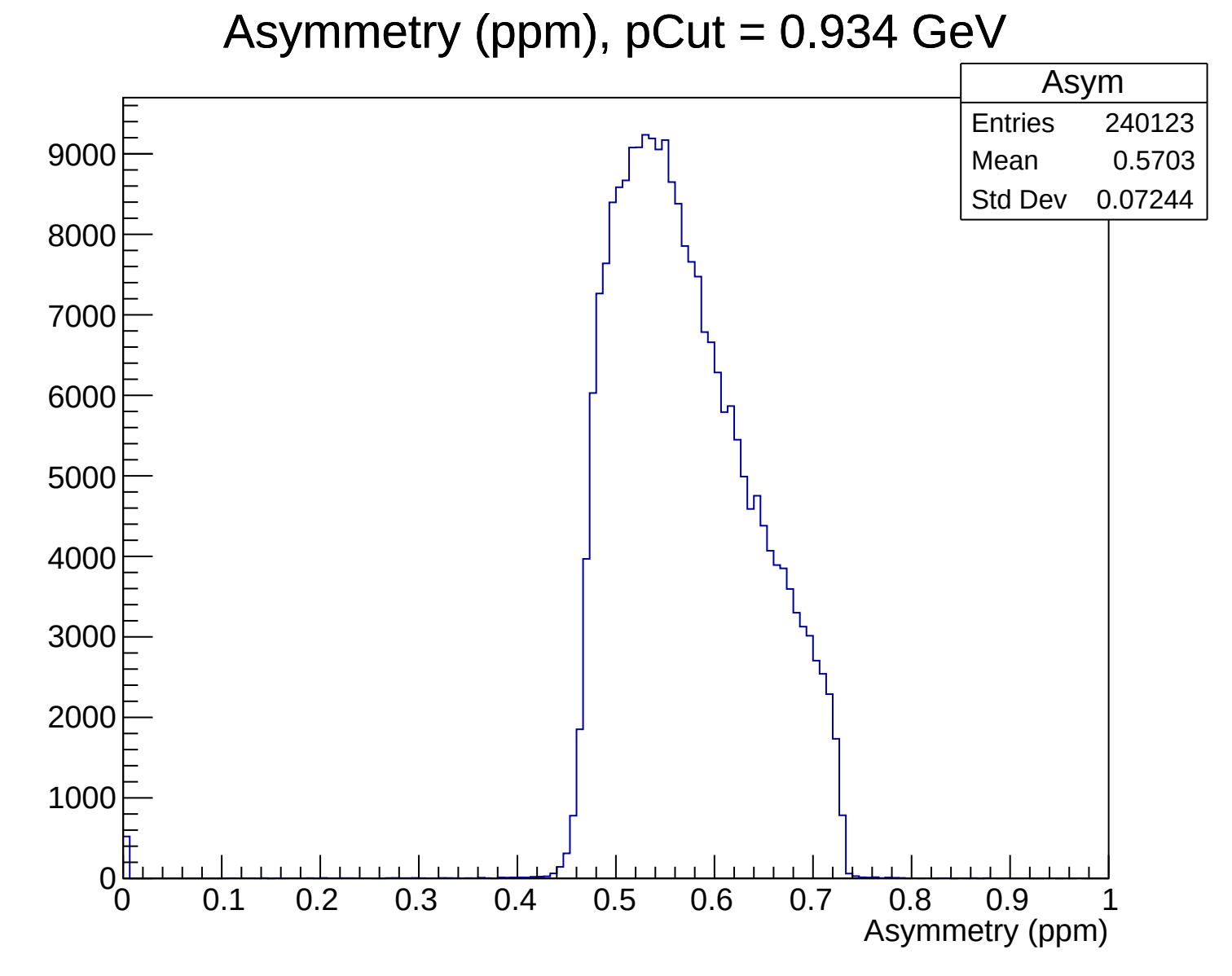

Stretched Asym. (ppm), pCut = 0.933 GeV
SAsym
Entries 244335
Mean 0.5571
Std Dev 0.06885
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

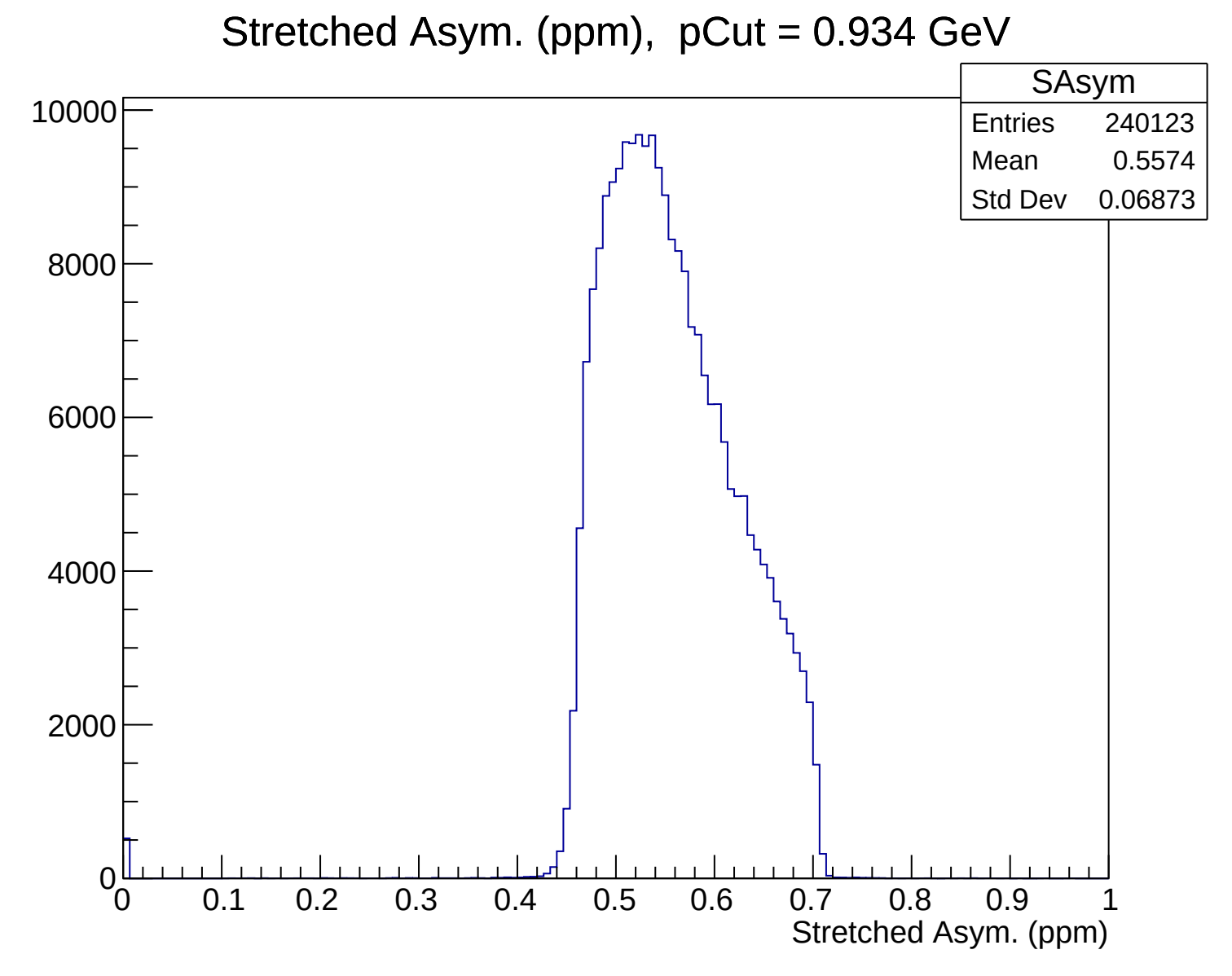

Q^2 (GeV/c)^2, pCut = 0.933 GeV
Q2
Entries 244335
Mean 0.00629
Std Dev 0.001205
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

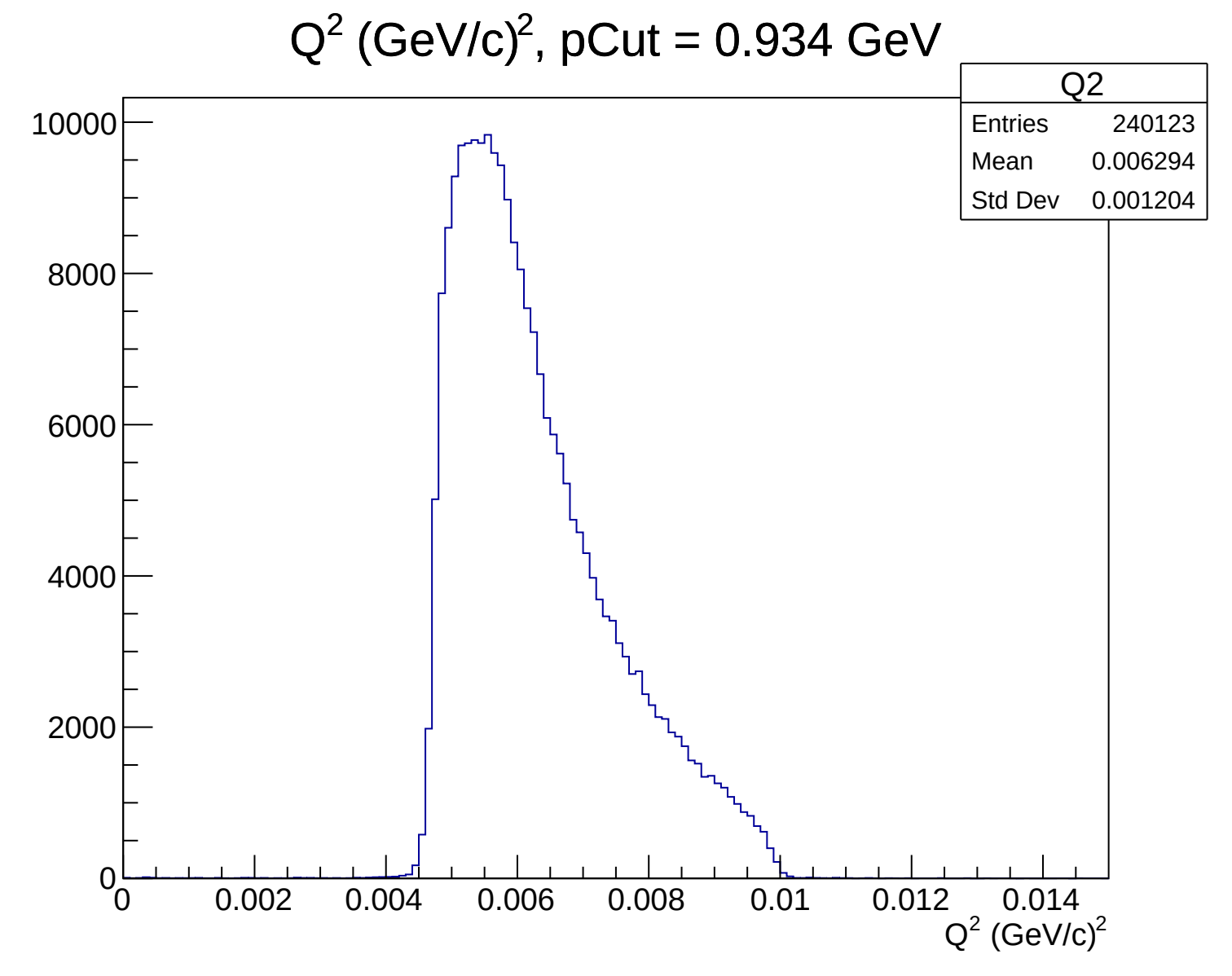

Sensitivity, pCut = 0.933 GeV
sens
Entries 244335
Mean 0.02211
Std Dev 0.003837
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

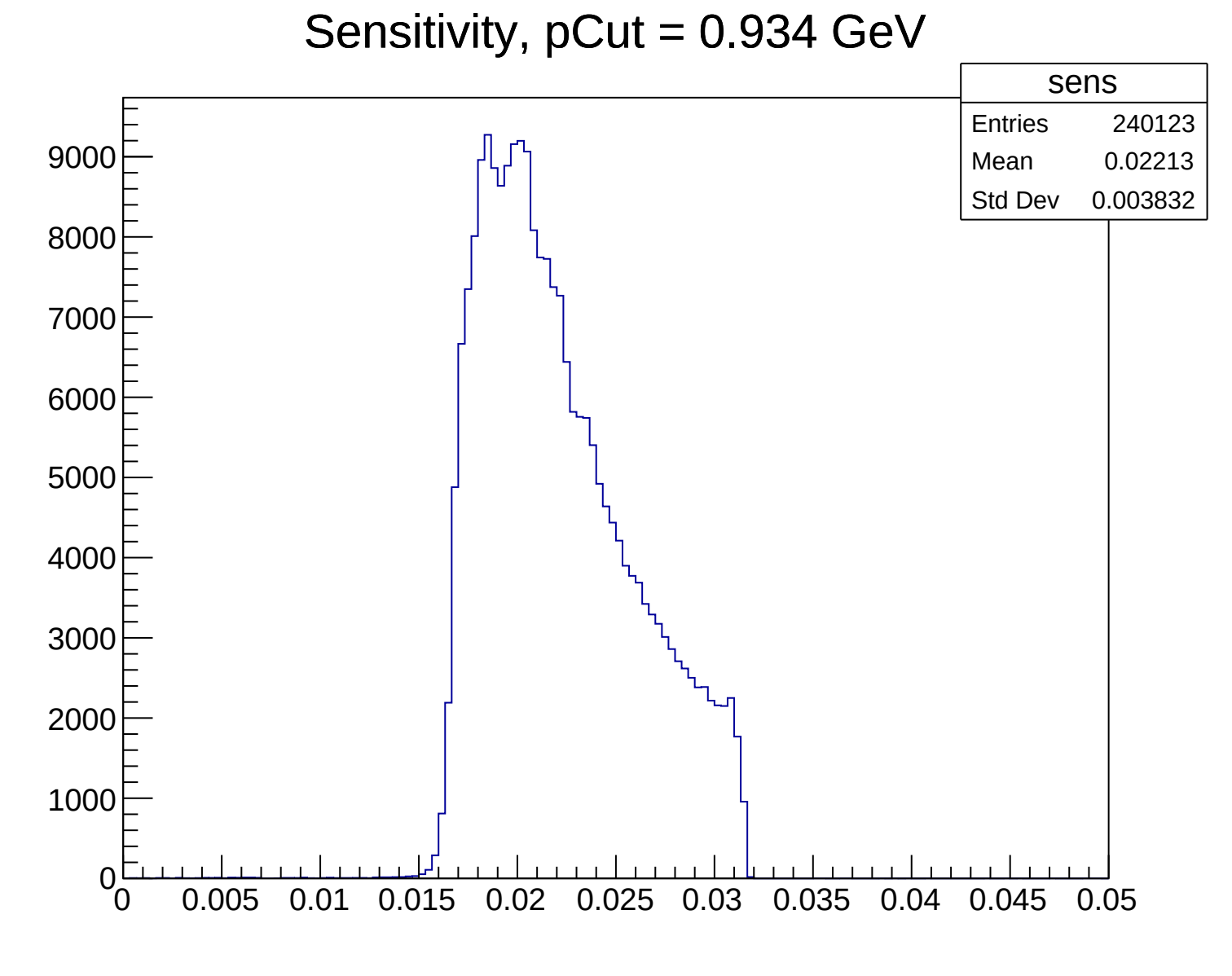

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9340 GeV
R.gold.p (GeV)

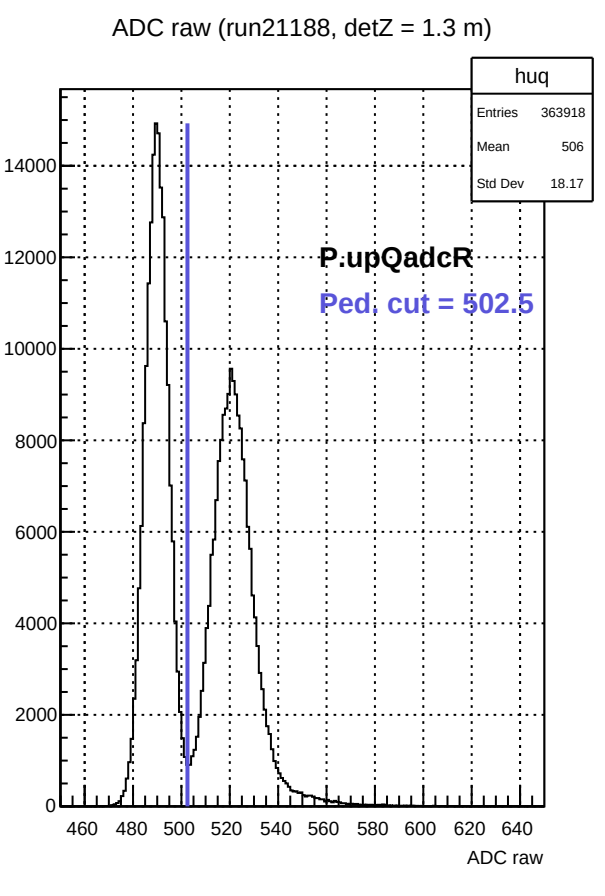

θlab (deg), pCut = 0.934 GeV
Theta
Entries 240123
Mean 4.779
Std Dev 0.4453
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

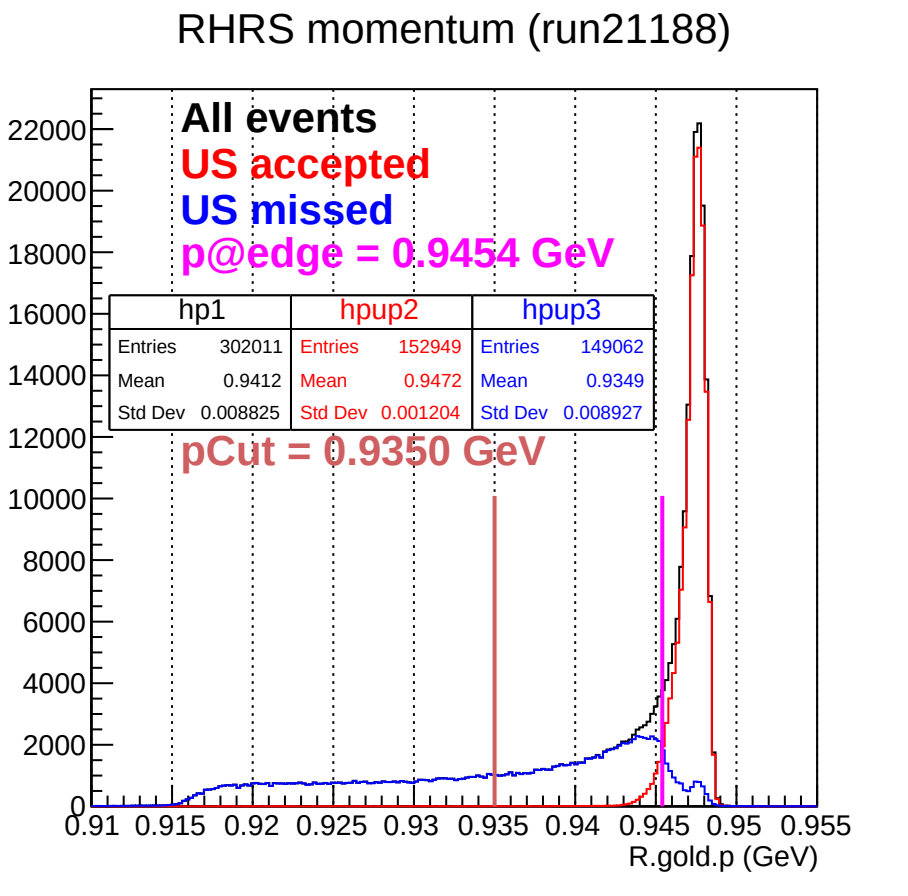

Asymmetry (ppm), pCut = 0.934 GeV
Asym
Entries 240123
Mean 0.5703
Std Dev 0.07244
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

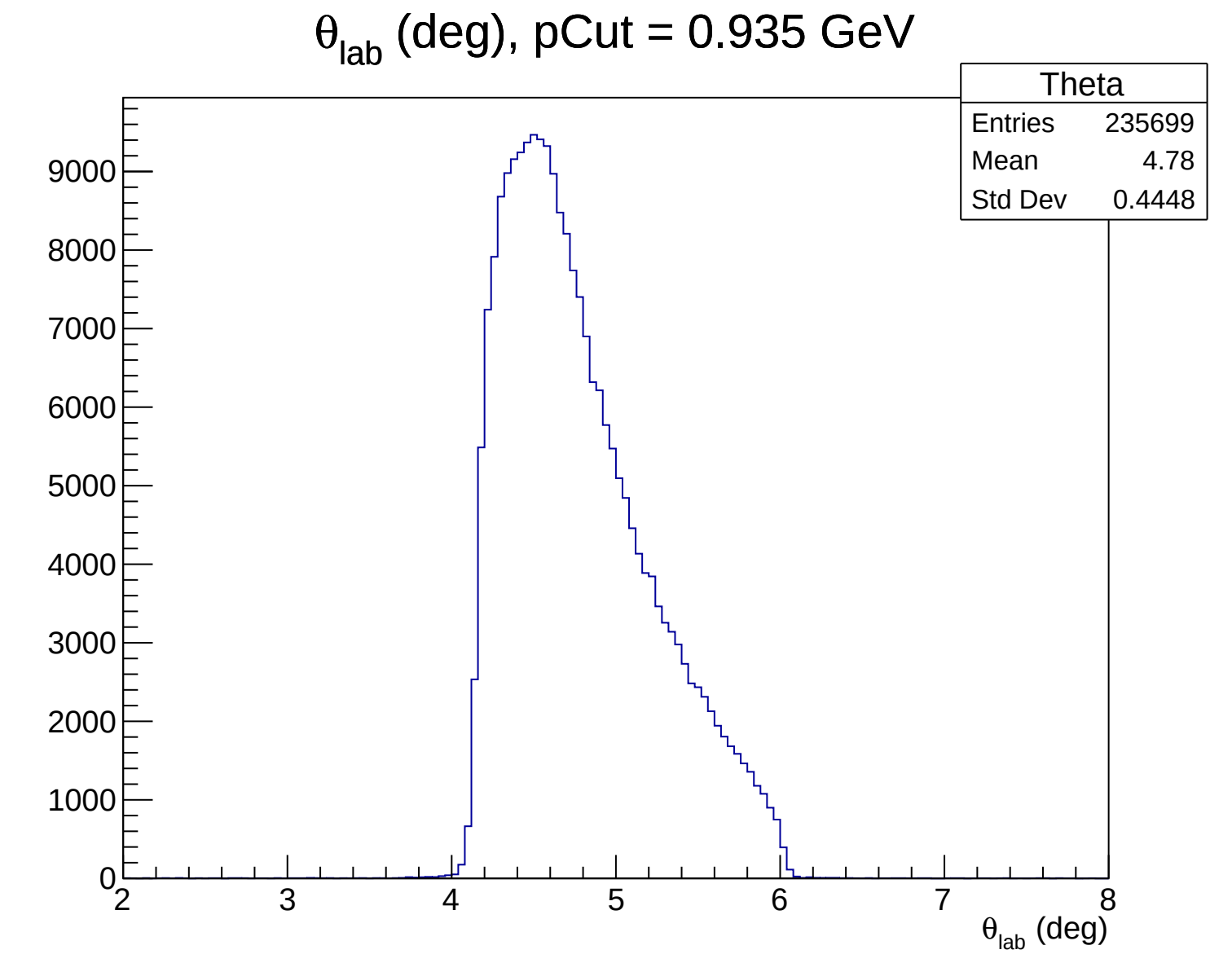

Stretched Asym. (ppm), pCut = 0.934 GeV
SAsym
Entries 240123
Mean 0.5574
Std Dev 0.06873
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

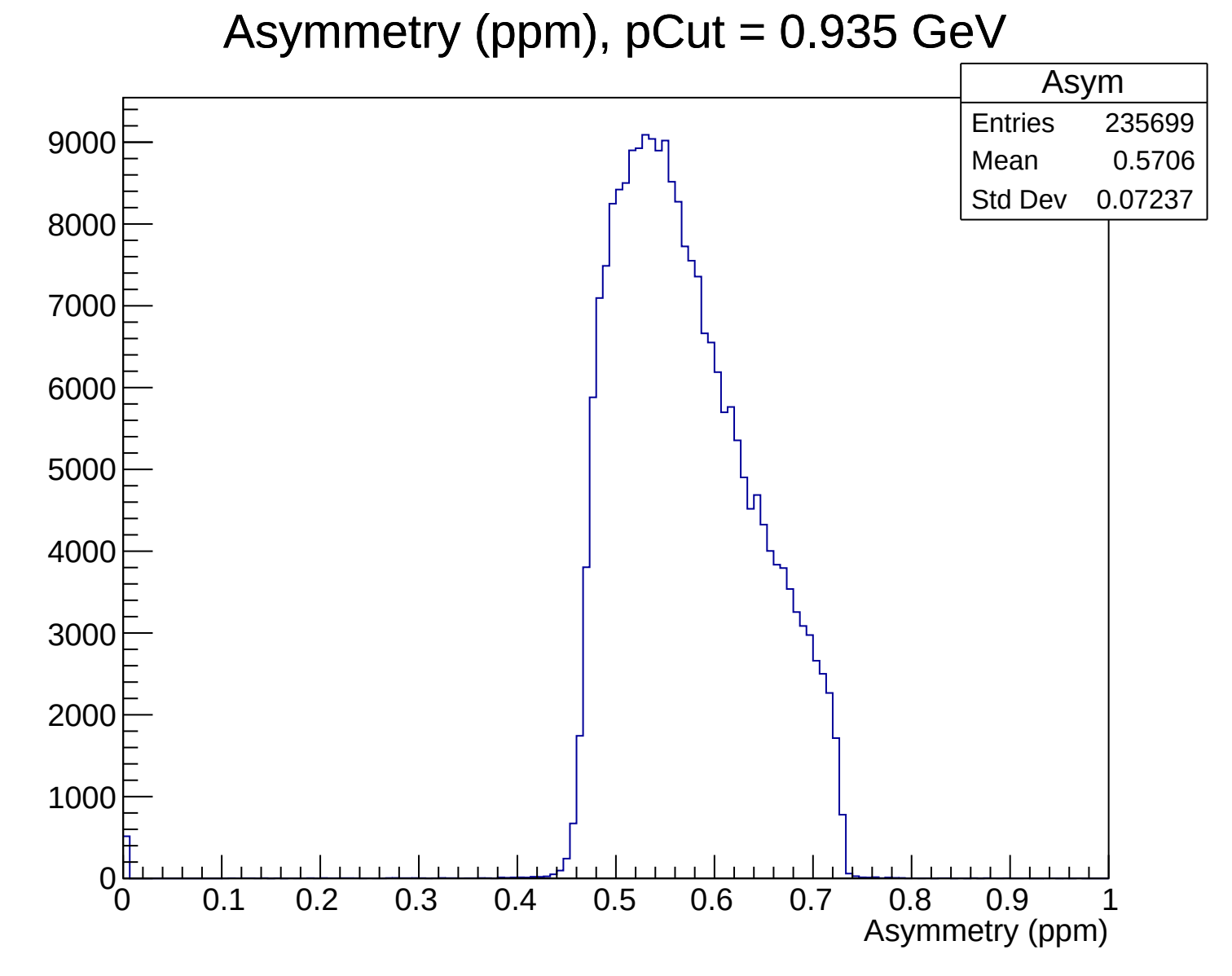

Q^2 (GeV/c)^2, pCut = 0.934 GeV
Q2
Entries 240123
Mean 0.006294
Std Dev 0.001204
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

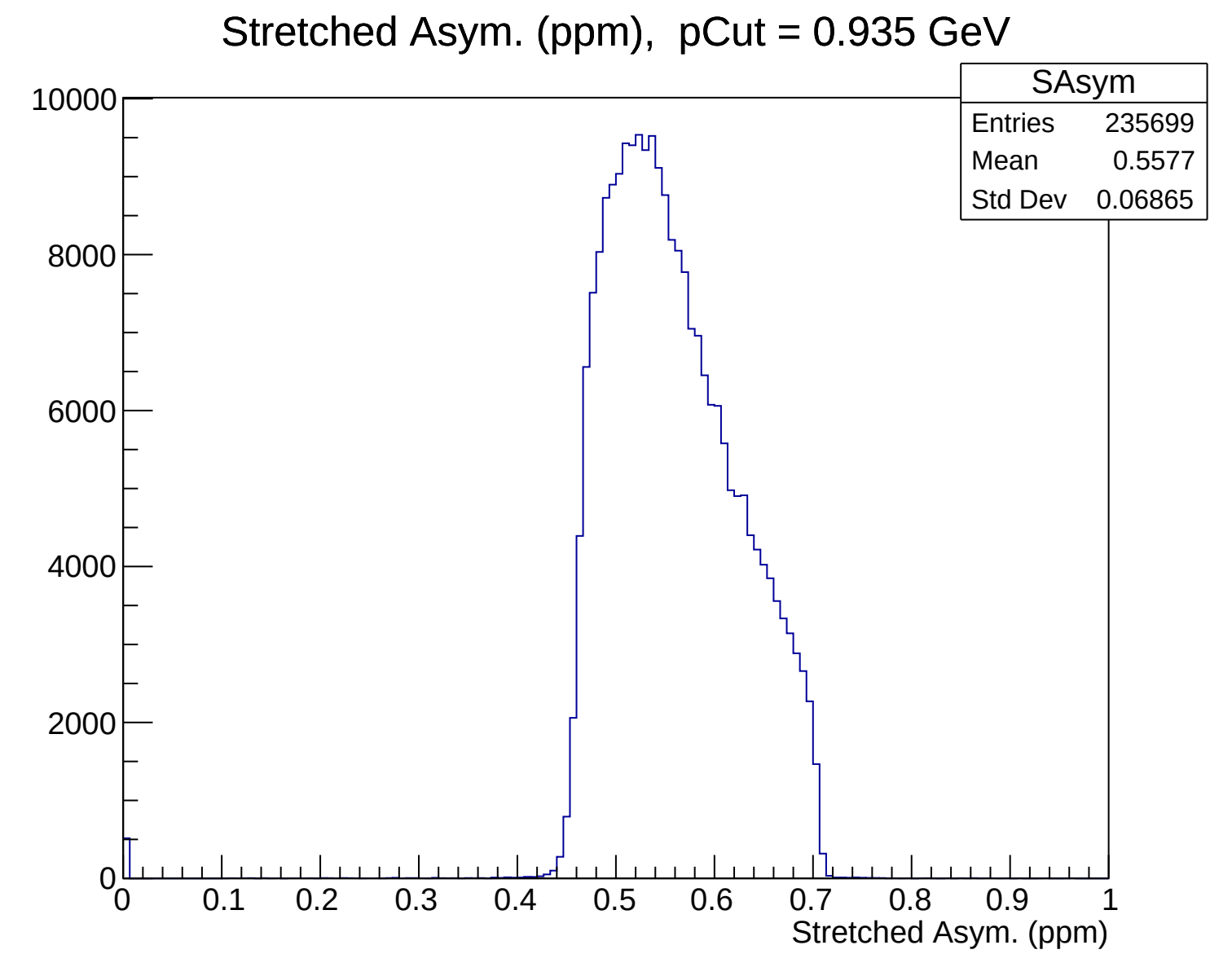

Sensitivity, pCut = 0.934 GeV
sens
Entries 240123
Mean 0.02213
Std Dev 0.003832
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

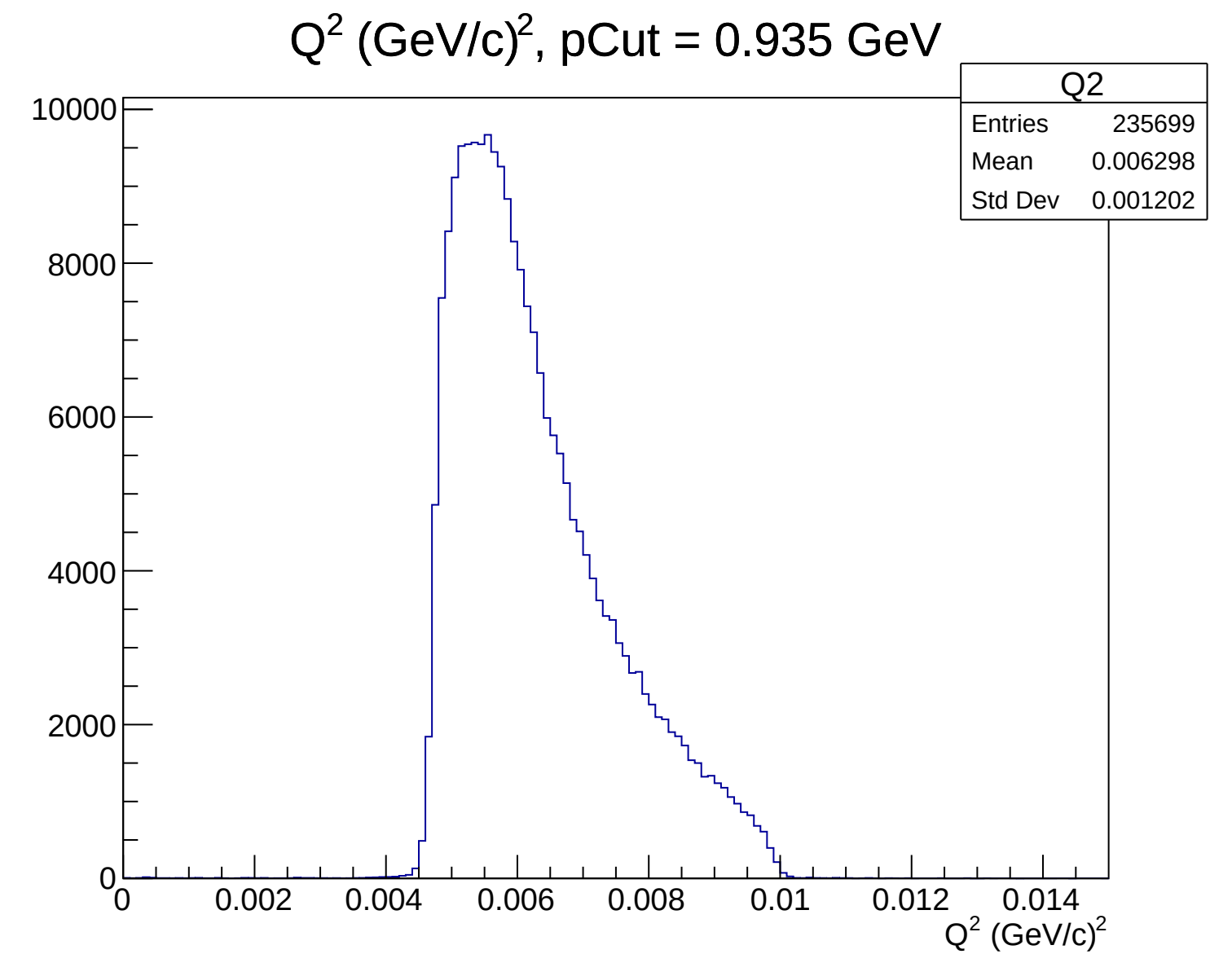

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

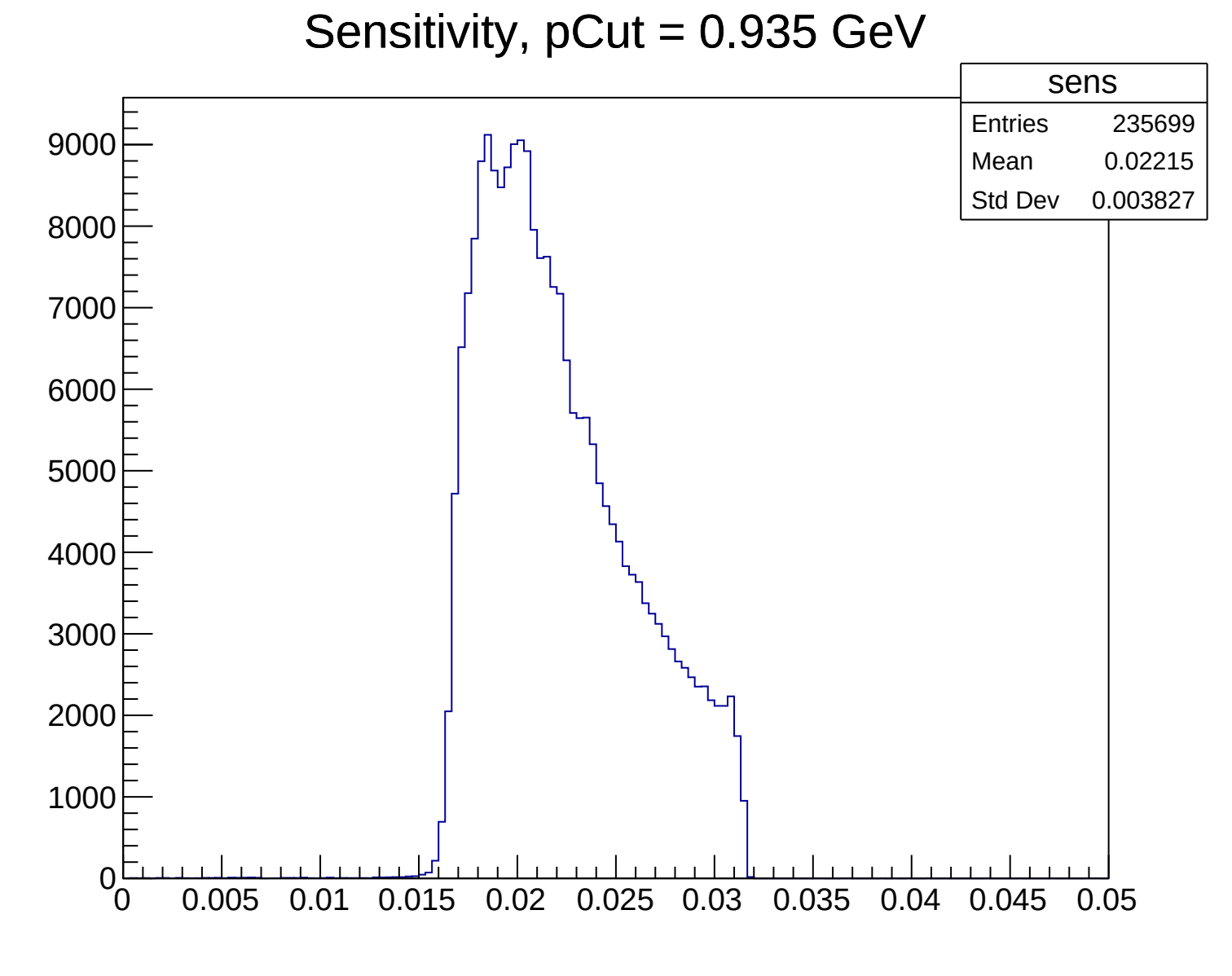

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9350 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

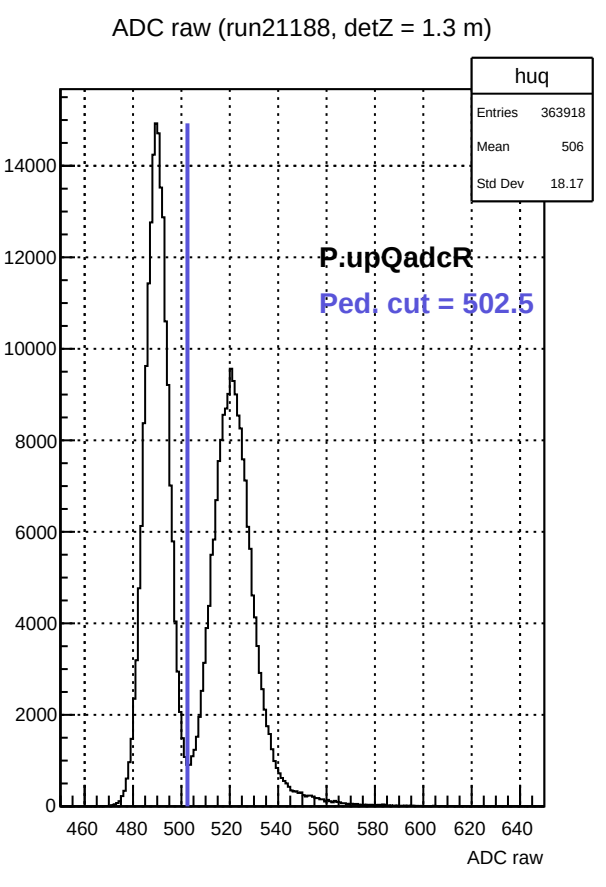

θlab (deg), pCut = 0.935 GeV
Theta
Entries 235699
Mean 4.78
Std Dev 0.4448
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

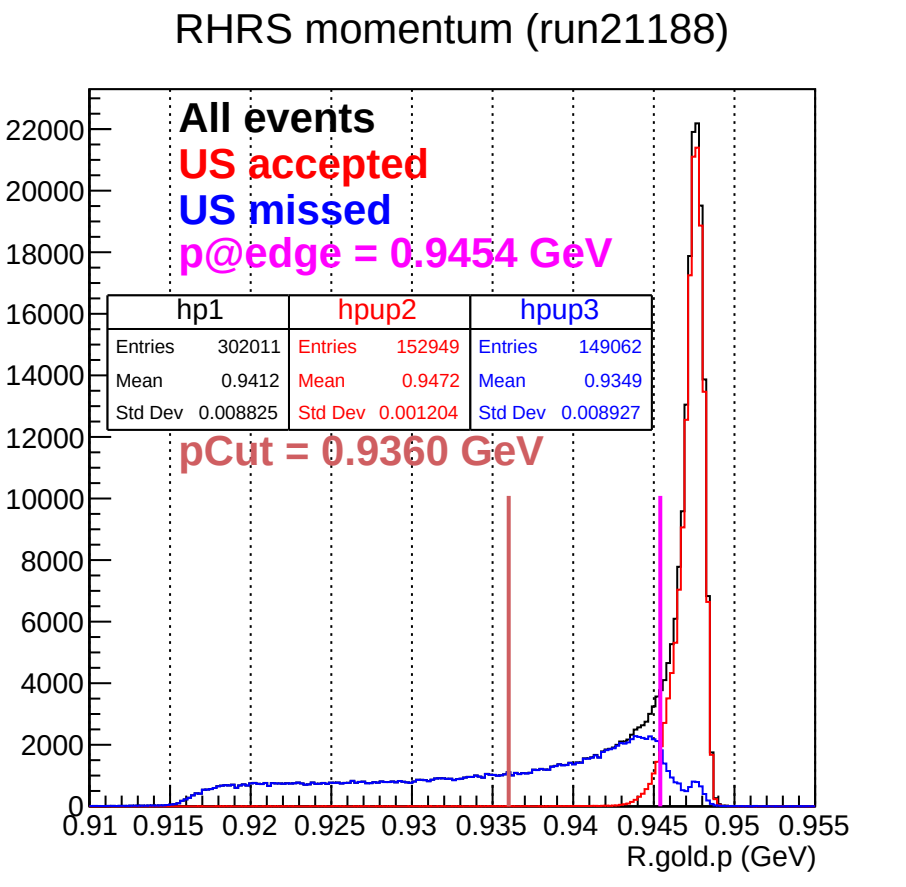

Asymmetry (ppm), pCut = 0.935 GeV
Asym
Entries 235699
Mean 0.5706
Std Dev 0.07237
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

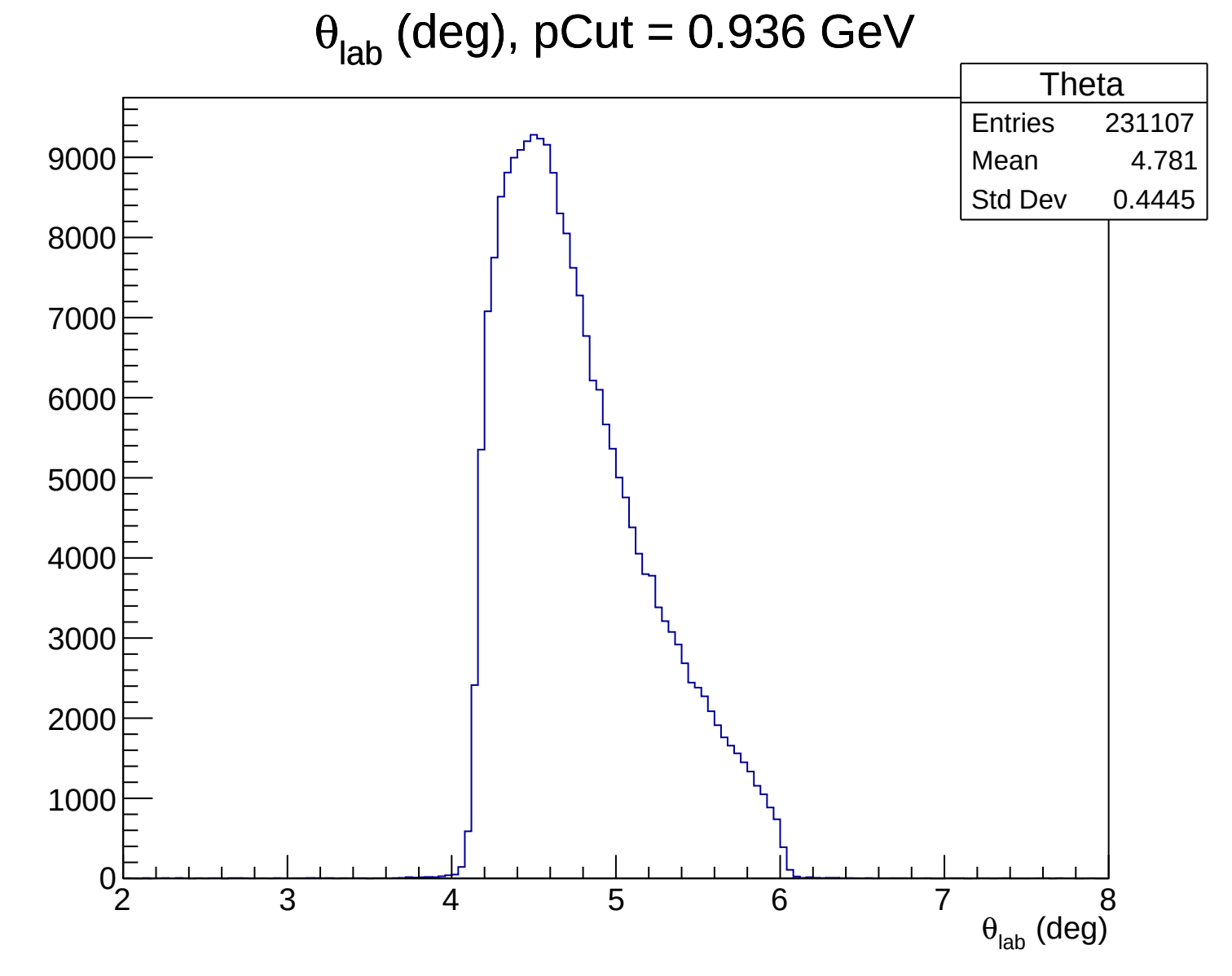

Stretched Asym. (ppm), pCut = 0.935 GeV
SAsym
Entries 235699
Mean 0.5577
Std Dev 0.06865
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

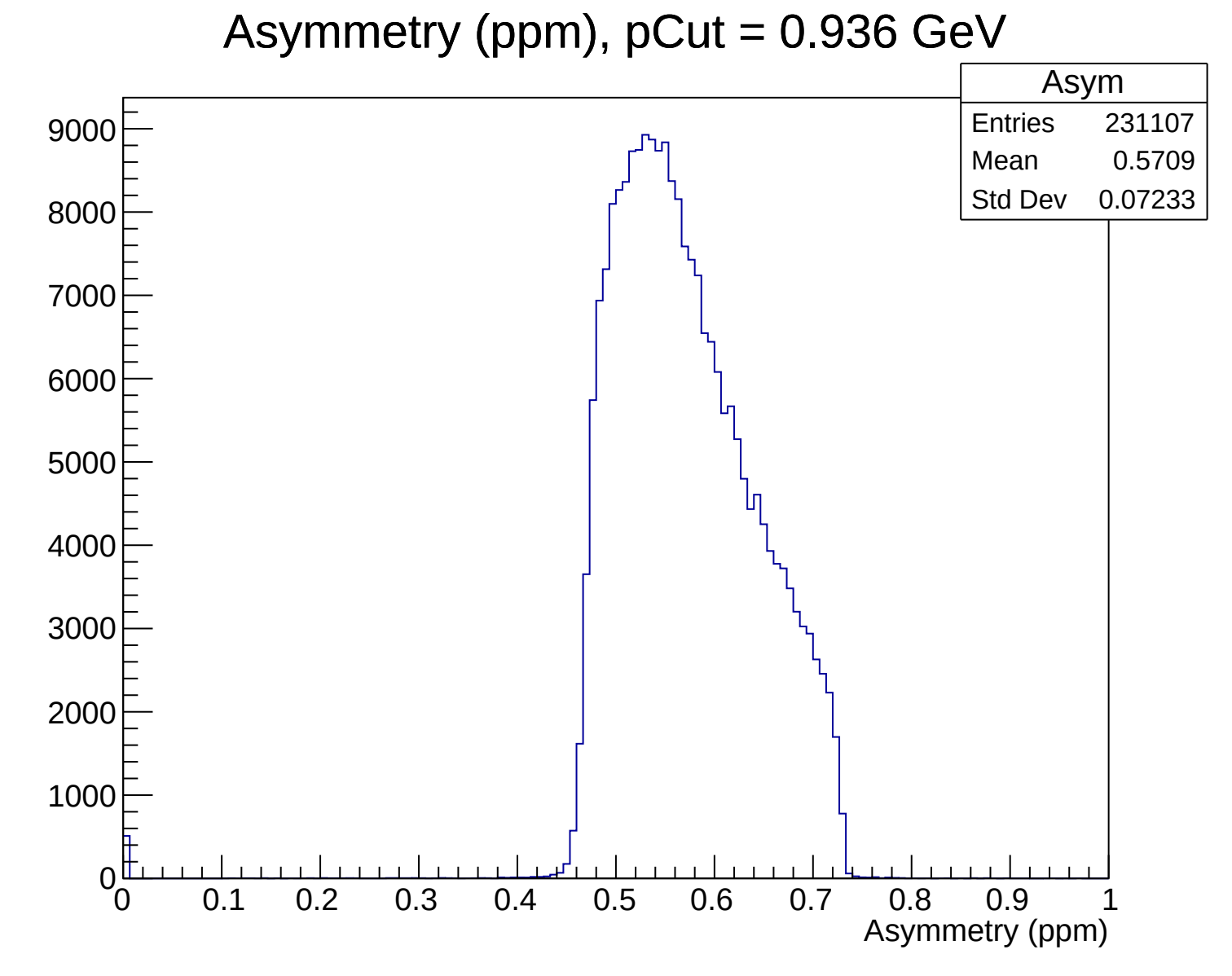

Q^2 (GeV/c)^2, pCut = 0.935 GeV
Q2
Entries 235699
Mean 0.006298
Std Dev 0.001202
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

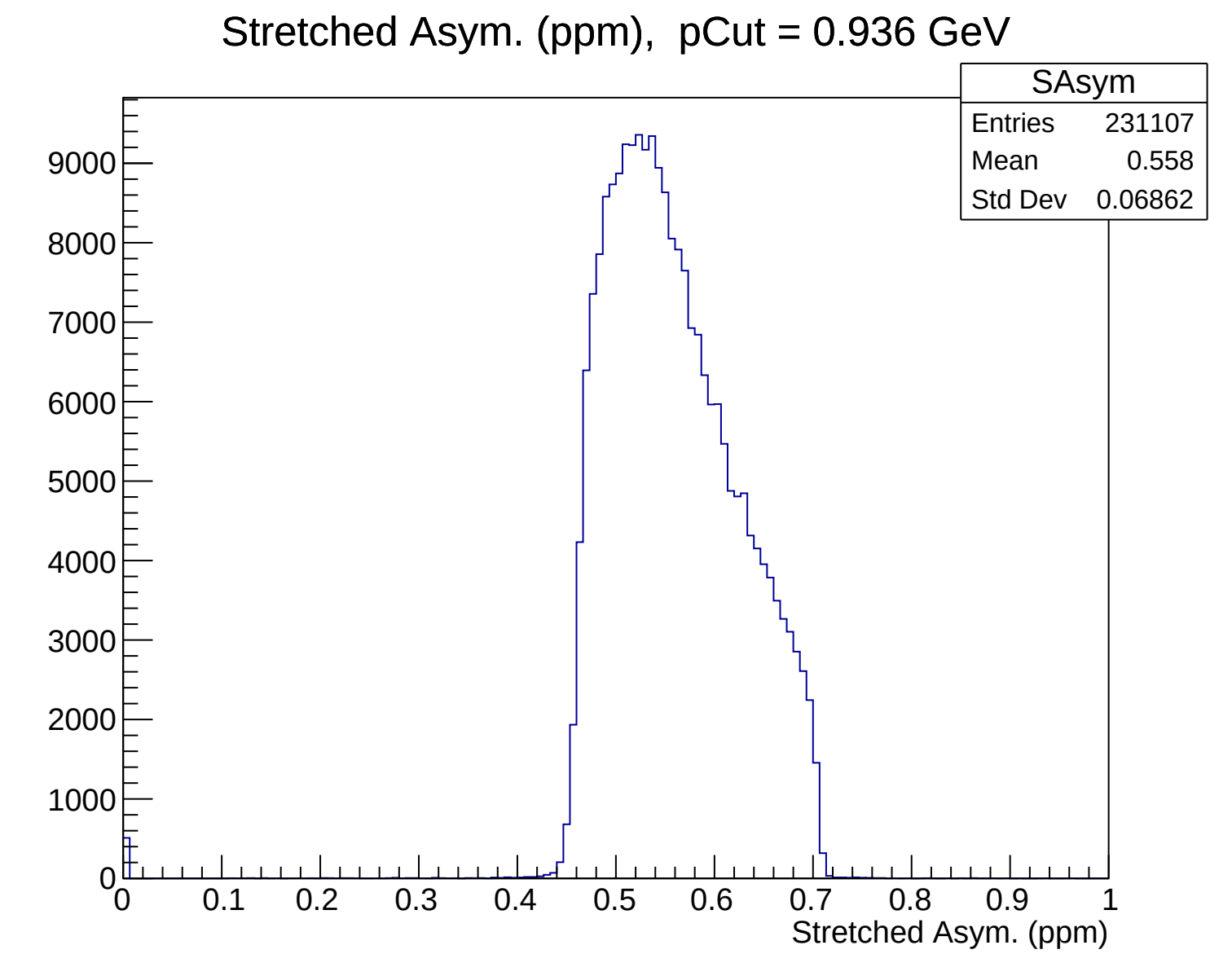

Sensitivity, pCut = 0.935 GeV
sens
Entries 235699
Mean 0.02215
Std Dev 0.003827
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

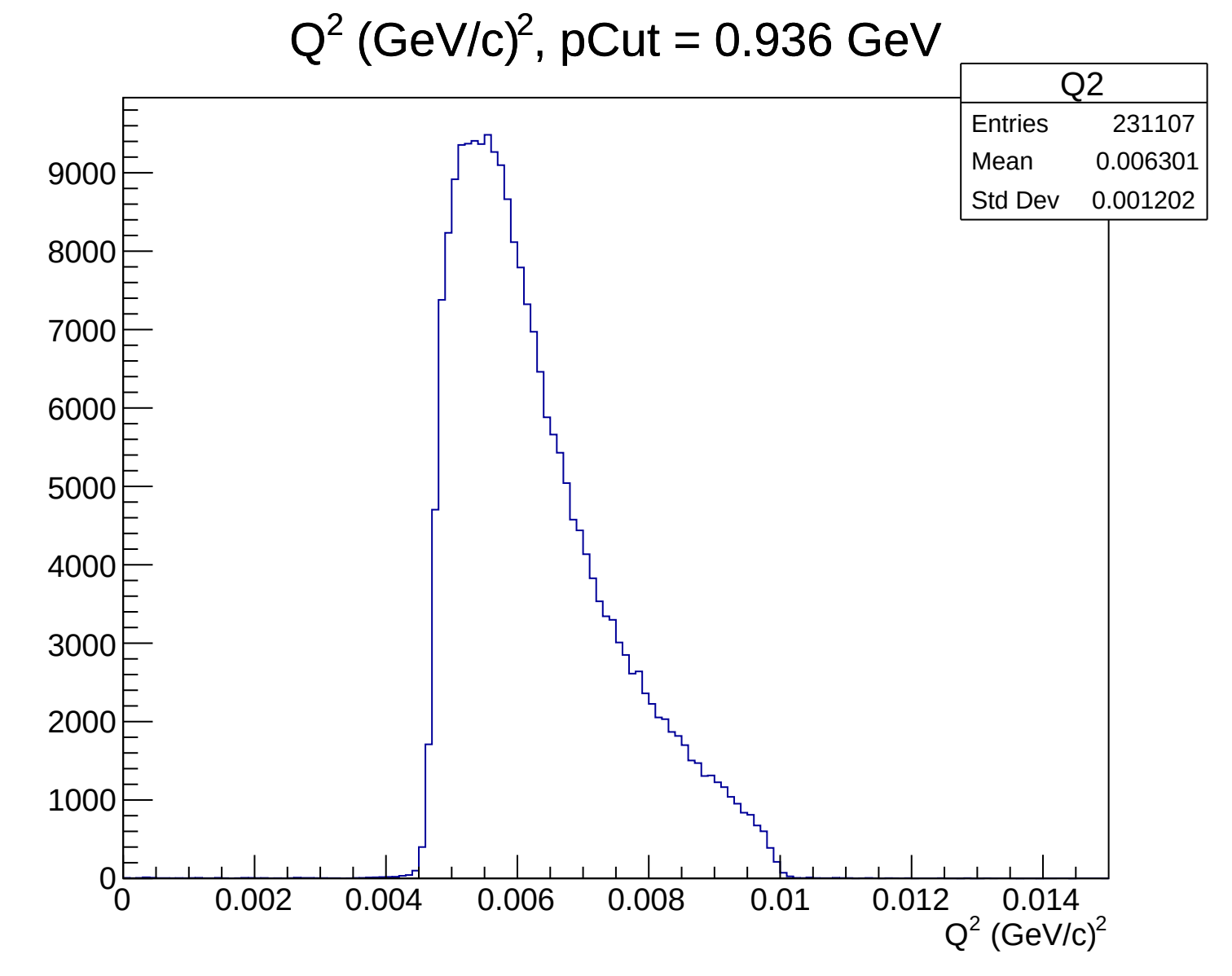

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

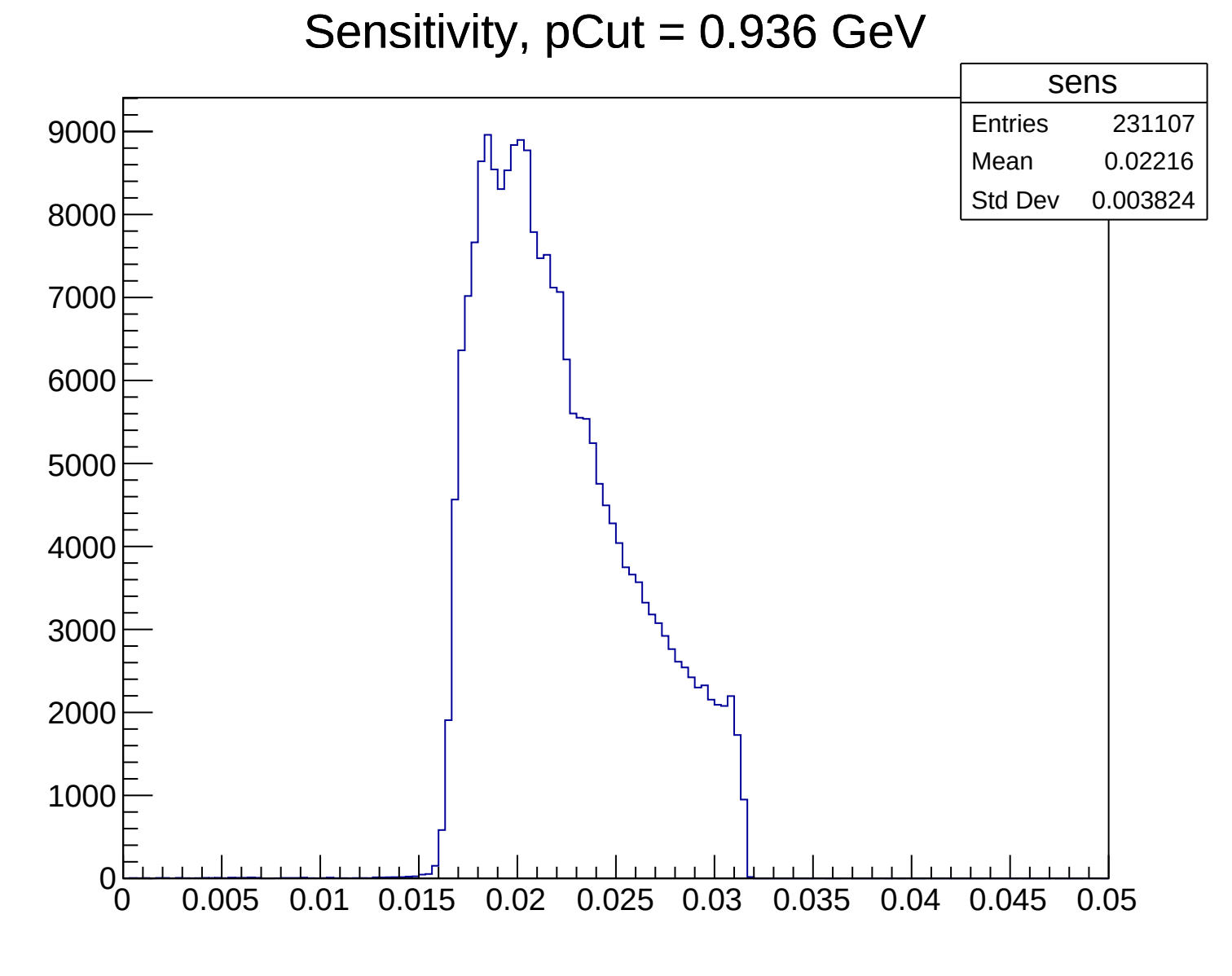

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9360 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

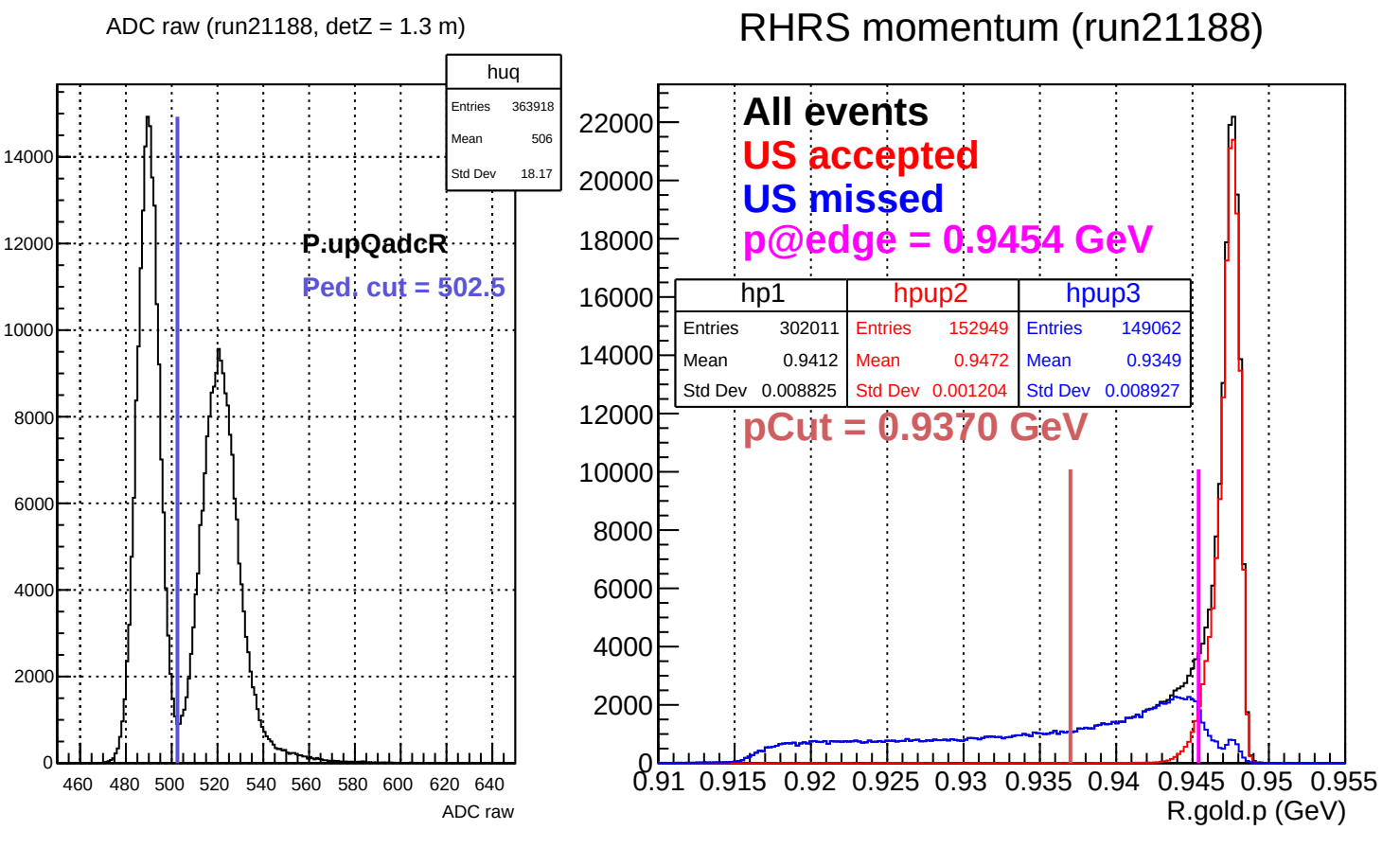

θlab (deg), pCut = 0.936 GeV
Theta
Entries 231107
Mean 4.781
Std Dev 0.4445
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

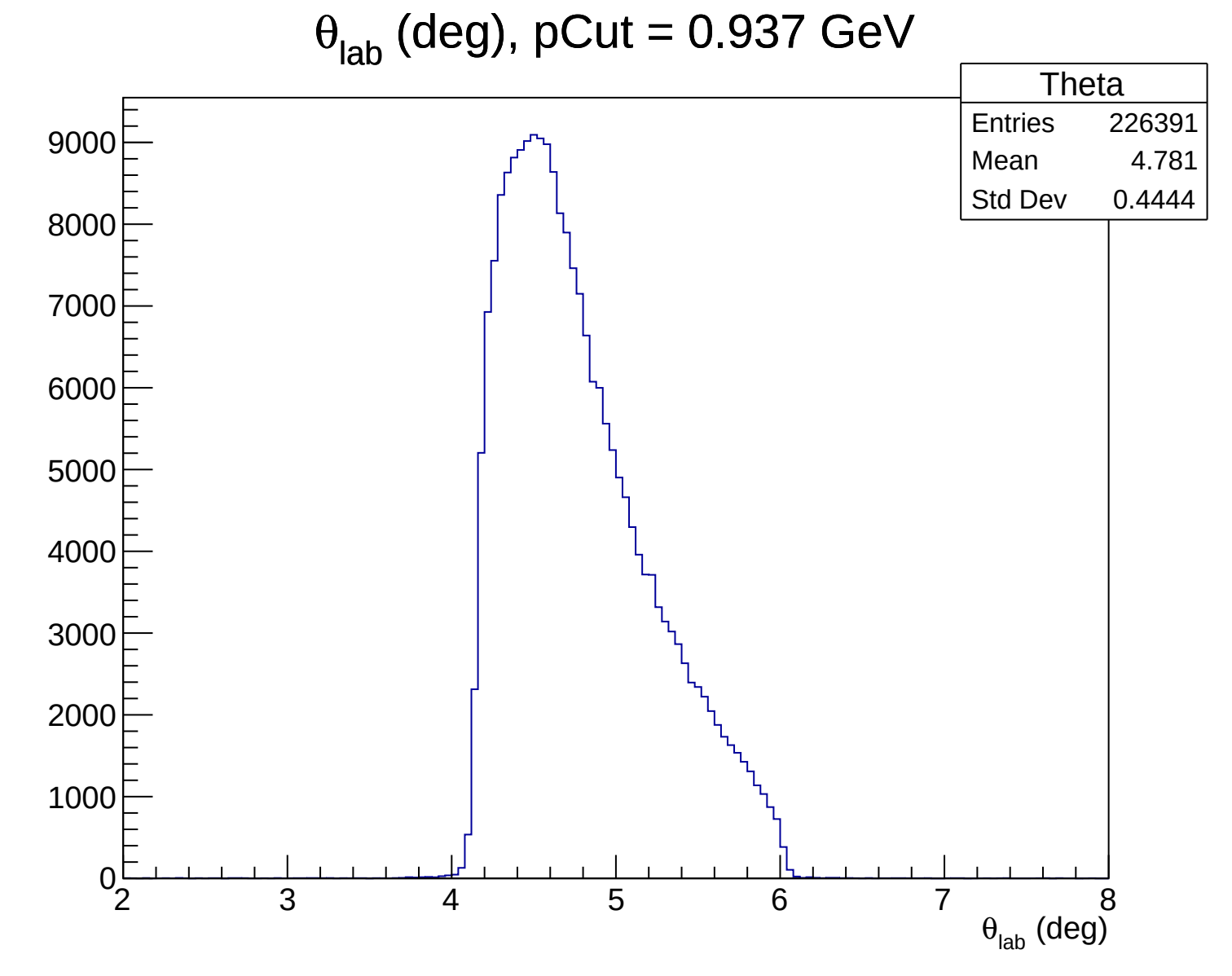

Asymmetry (ppm), pCut = 0.936 GeV
Asym
Entries 231107
Mean 0.5709
Std Dev 0.07233
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

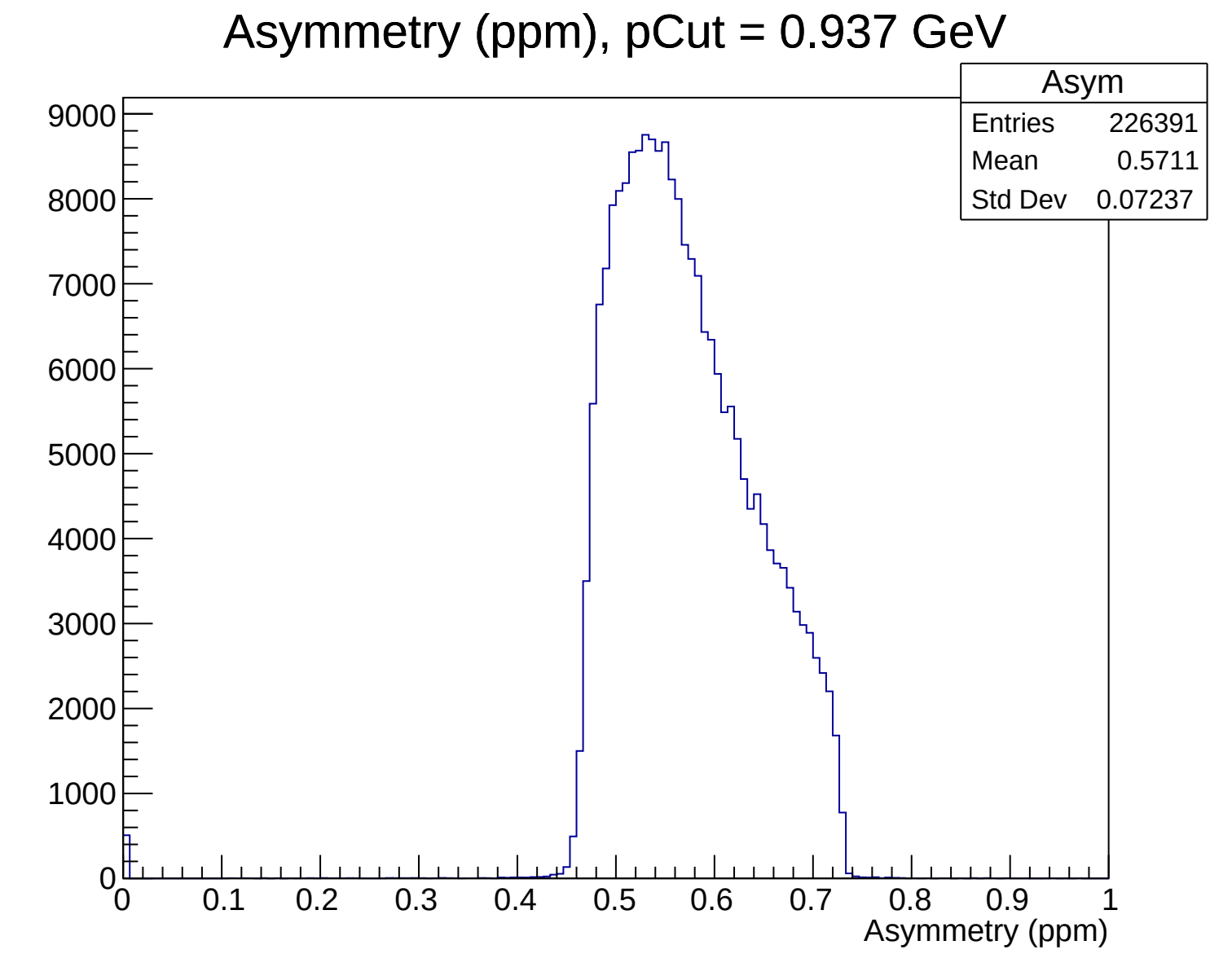

Stretched Asym. (ppm), pCut = 0.936 GeV
SAsym
Entries 231107
Mean 0.558
Std Dev 0.06862
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

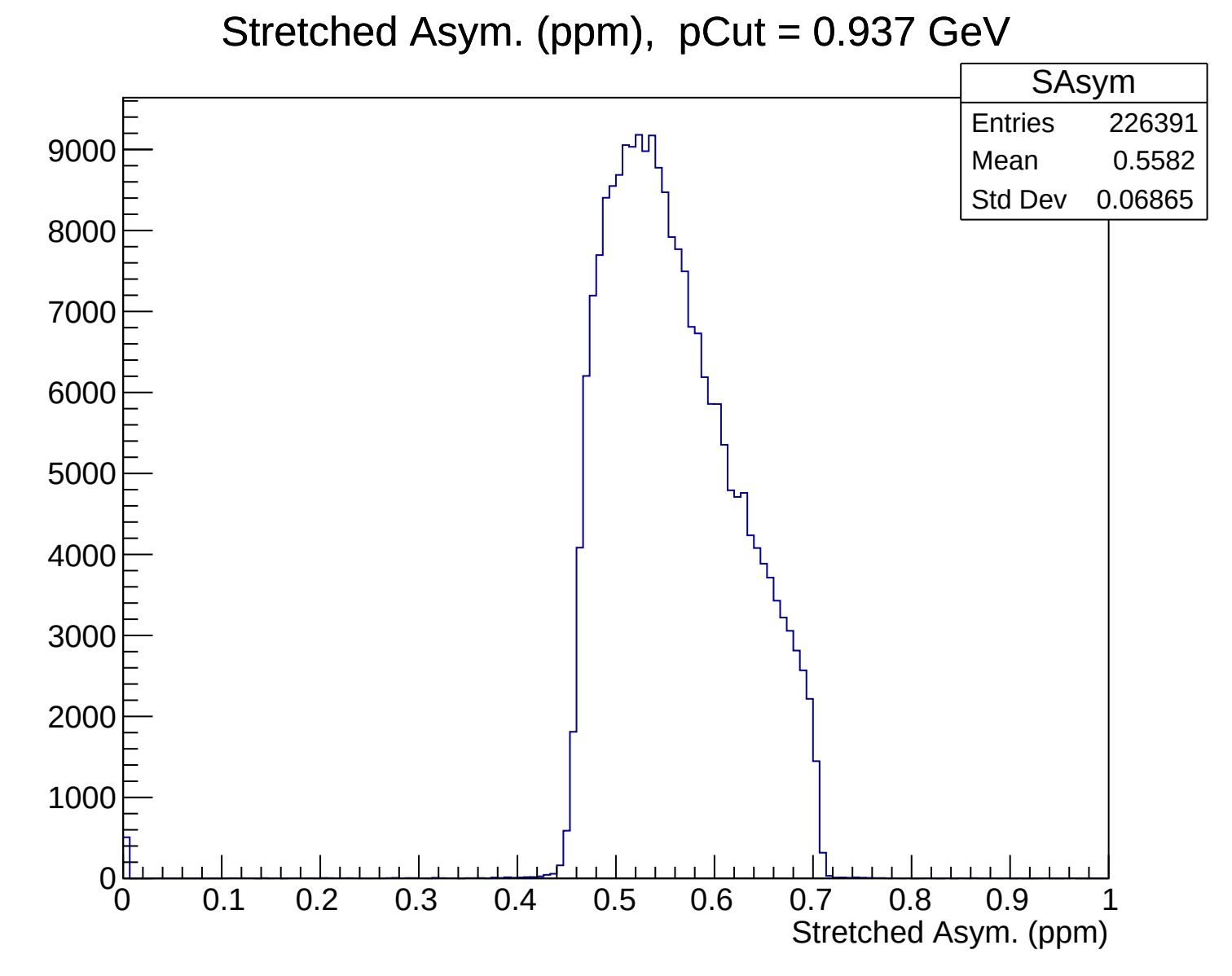

Q^2 (GeV/c)^2, pCut = 0.936 GeV
Q2
Entries 231107
Mean 0.006301
Std Dev 0.001202
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

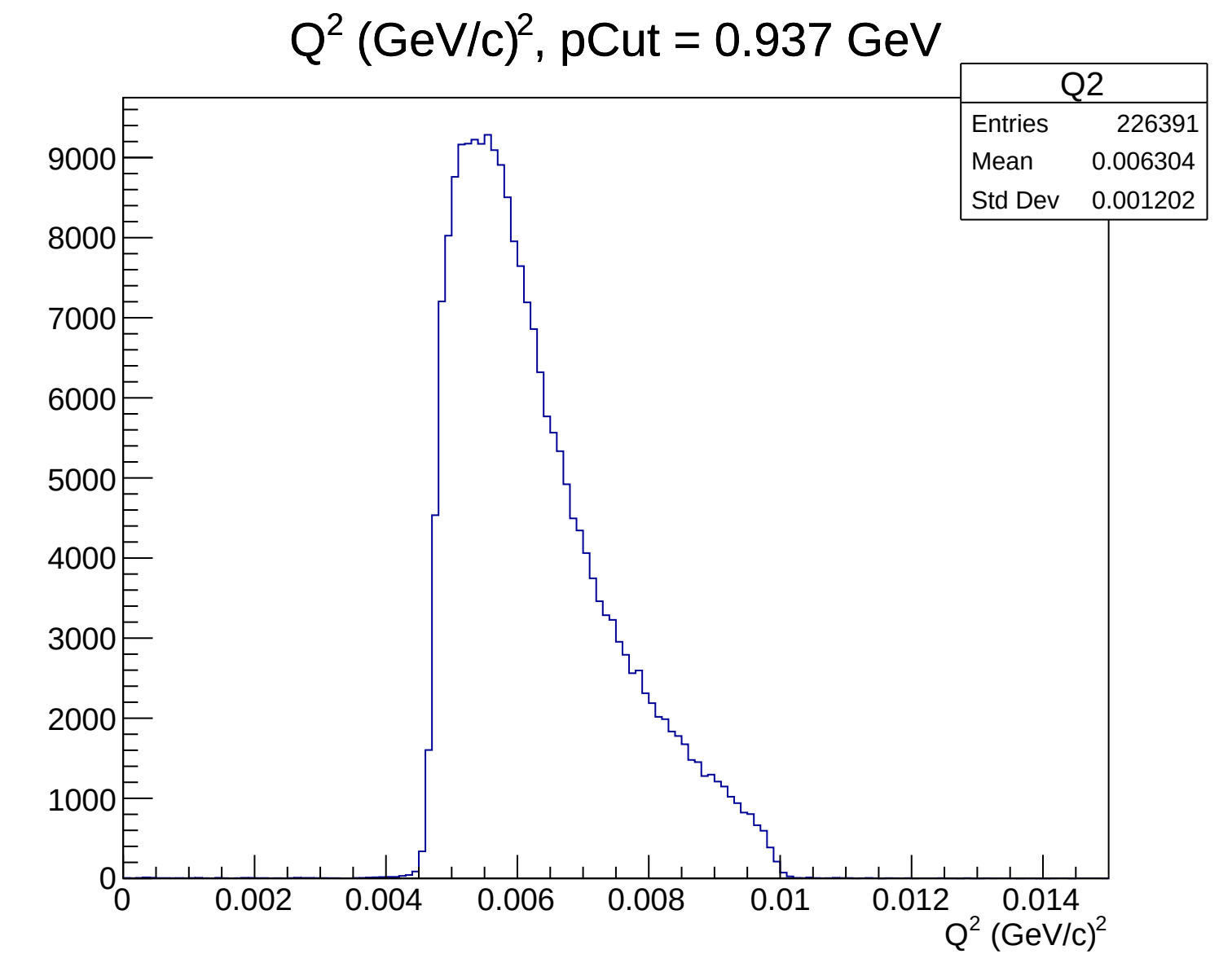

Sensitivity, pCut = 0.936 GeV
sens
Entries 231107
Mean 0.02216
Std Dev 0.003824
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

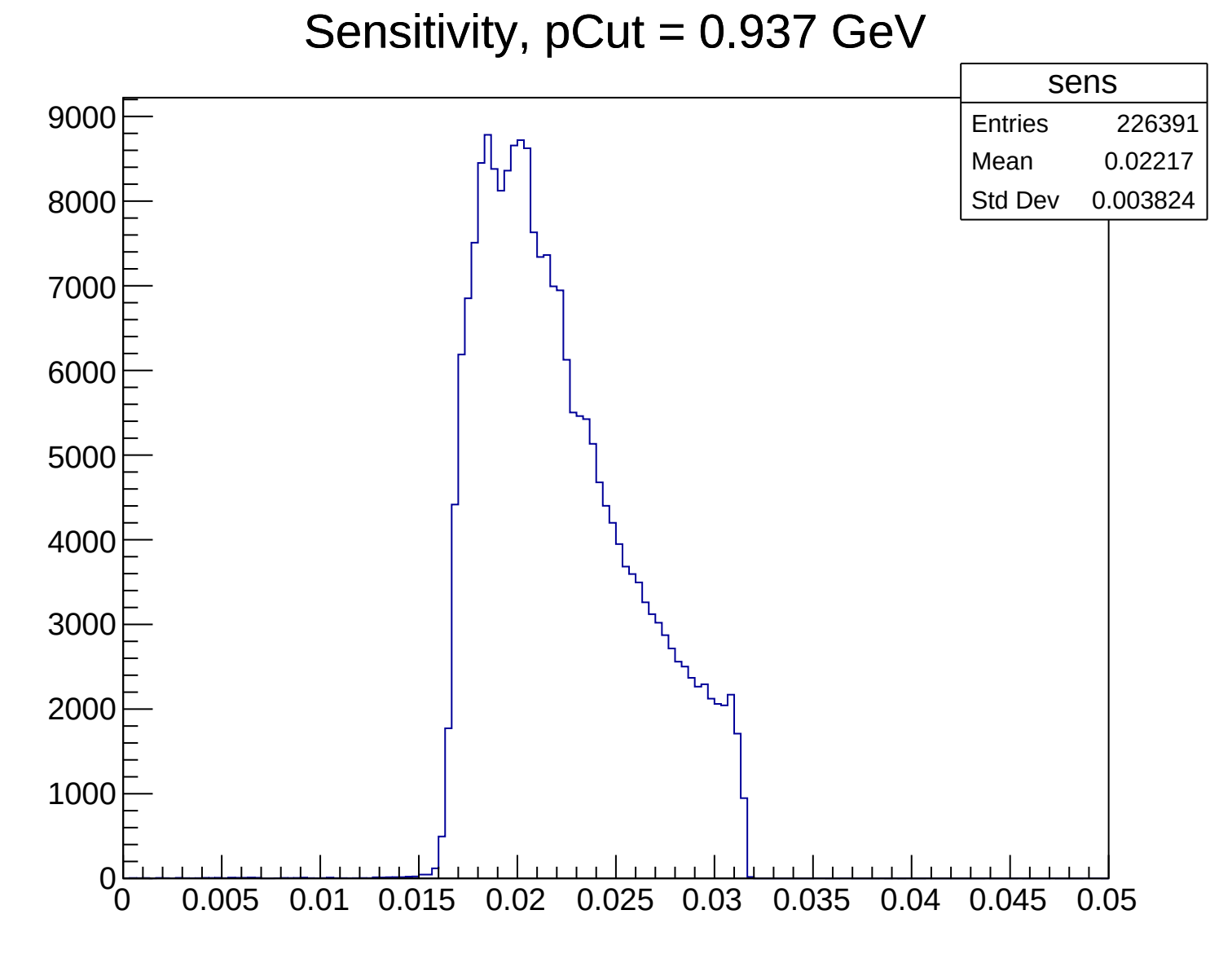

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9370 GeV
R.gold.p (GeV)

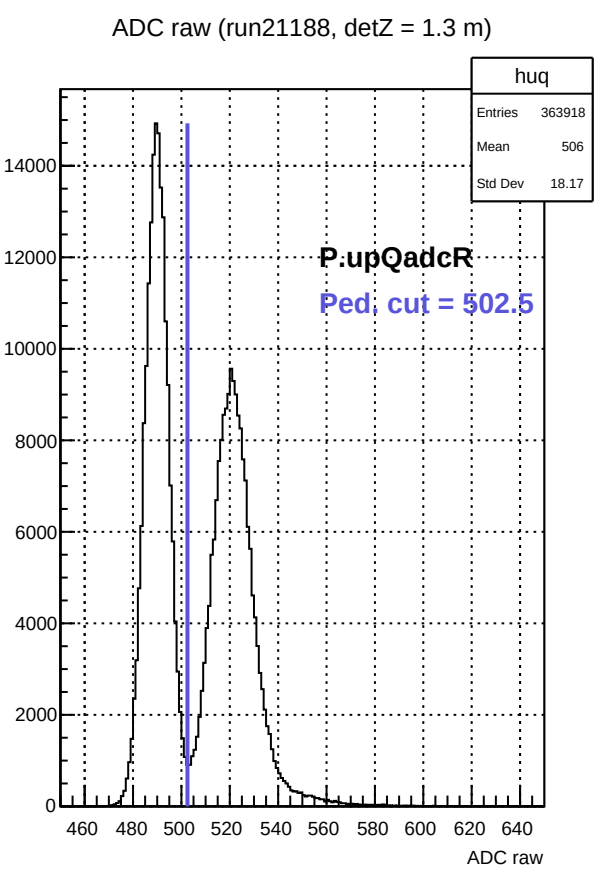

θlab (deg), pCut = 0.937 GeV
Theta
Entries 226391
Mean 4.781
Std Dev 0.4444
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

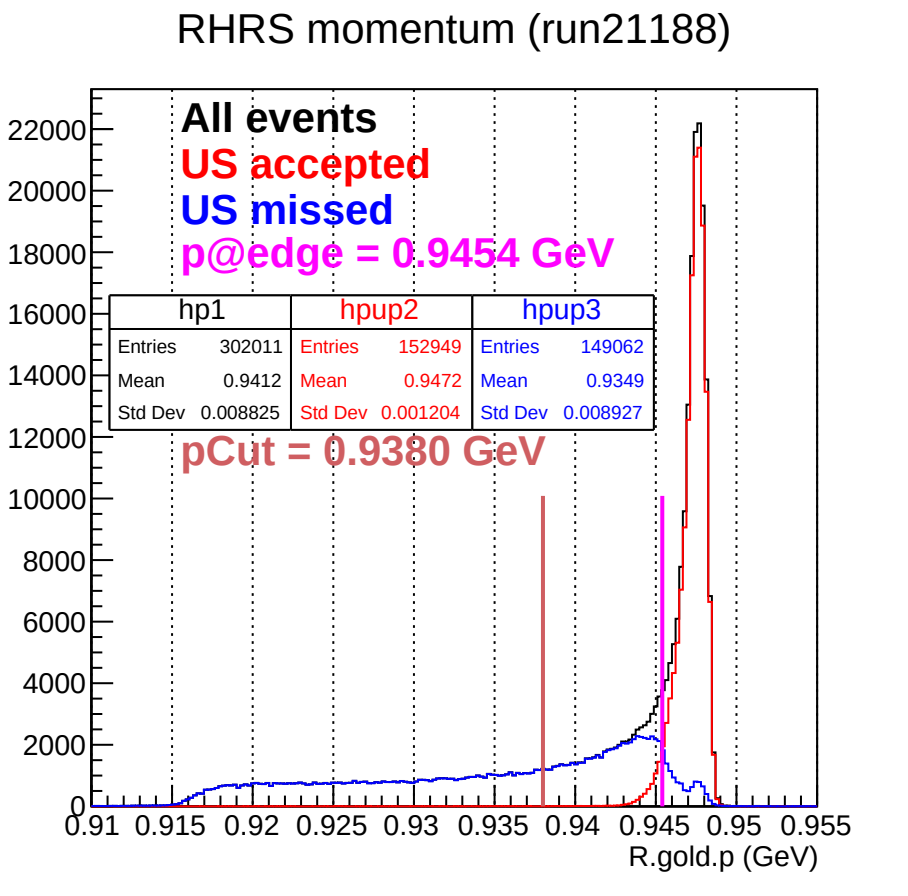

Asymmetry (ppm), pCut = 0.937 GeV
Asym
Entries 226391
Mean 0.5711
Std Dev 0.07237
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

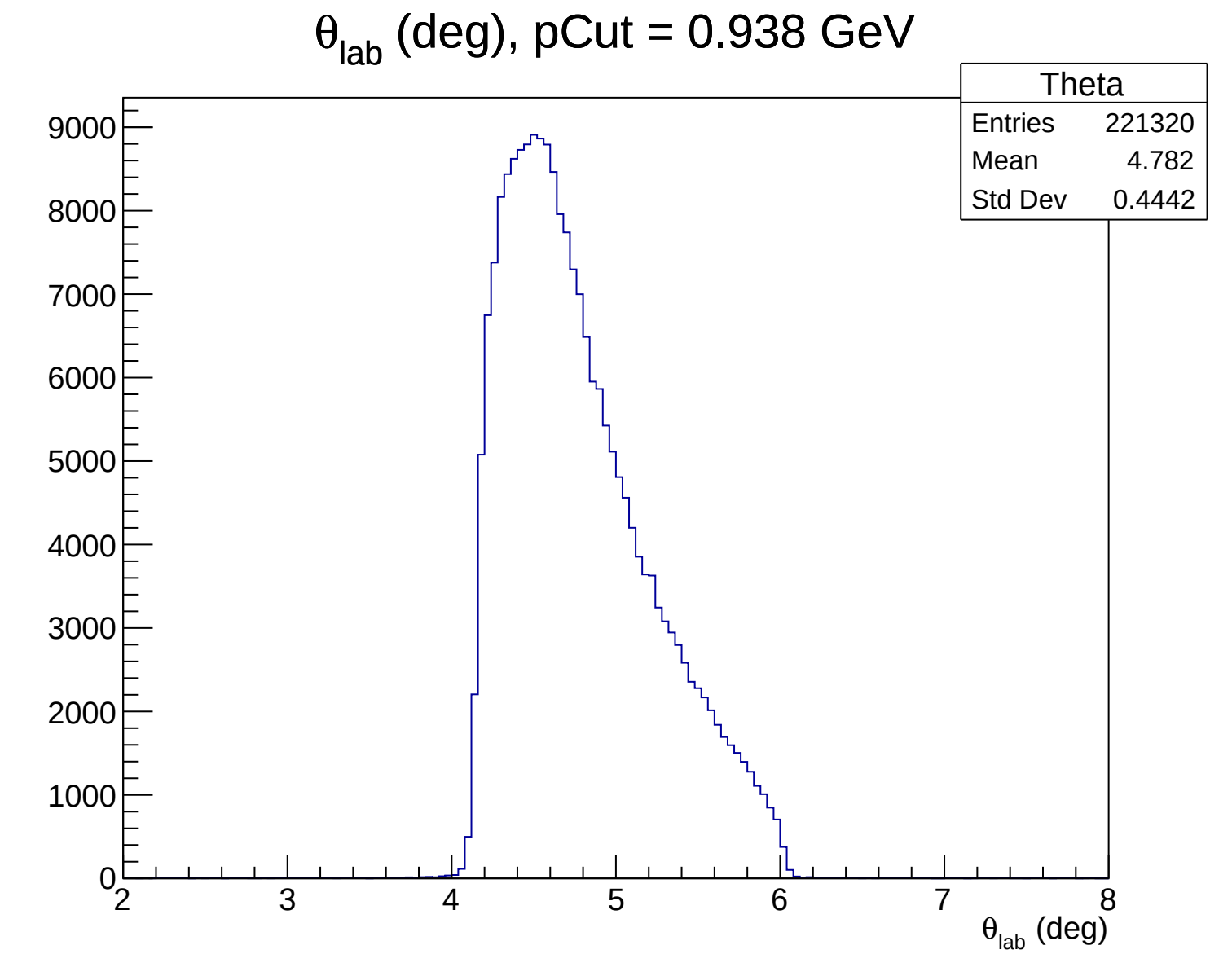

Stretched Asym. (ppm), pCut = 0.937 GeV
SAsym
Entries 226391
Mean 0.5582
Std Dev 0.06865
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

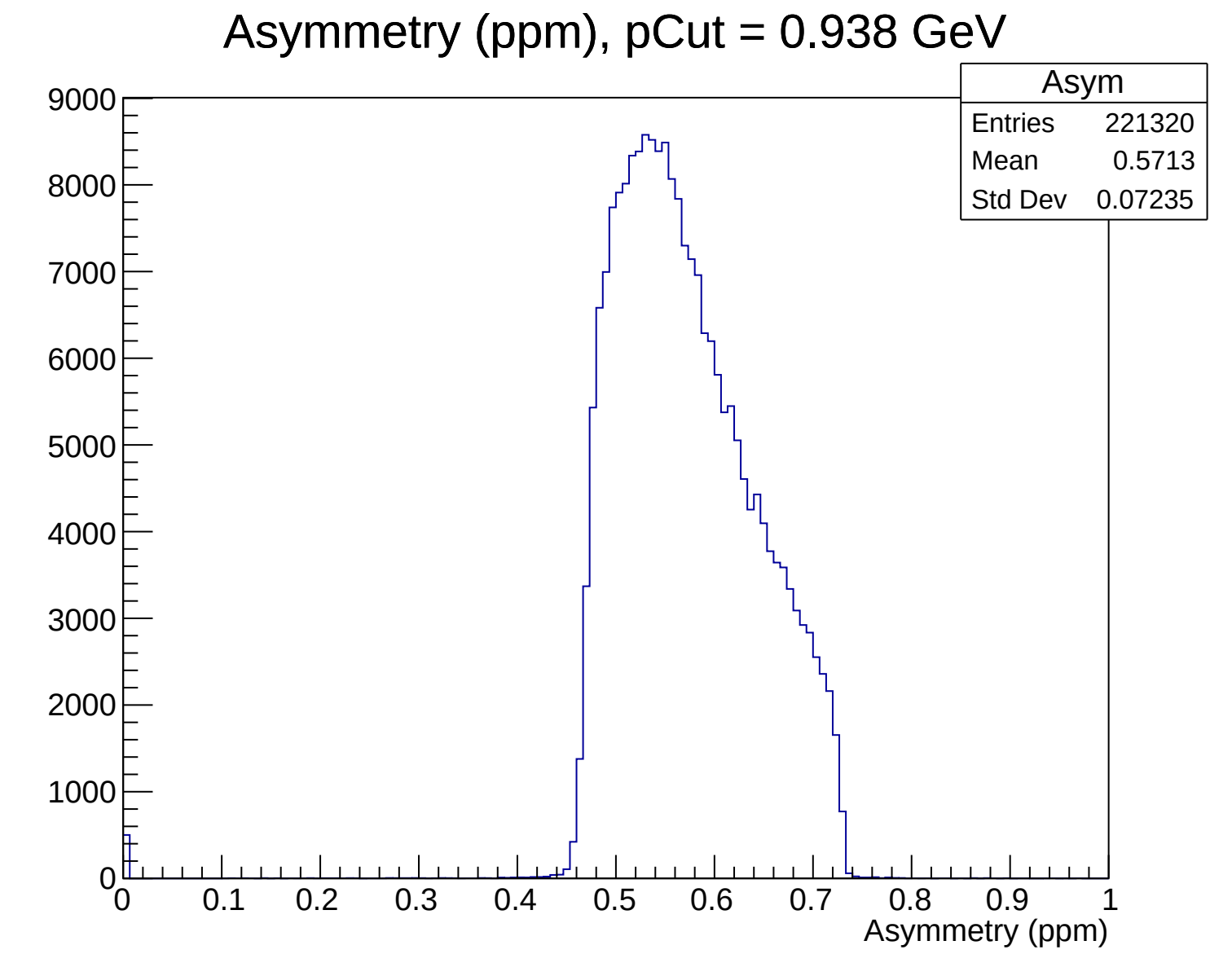

Q^2 (GeV/c)^2, pCut = 0.937 GeV
Q2
Entries 226391
Mean 0.006304
Std Dev 0.001202
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

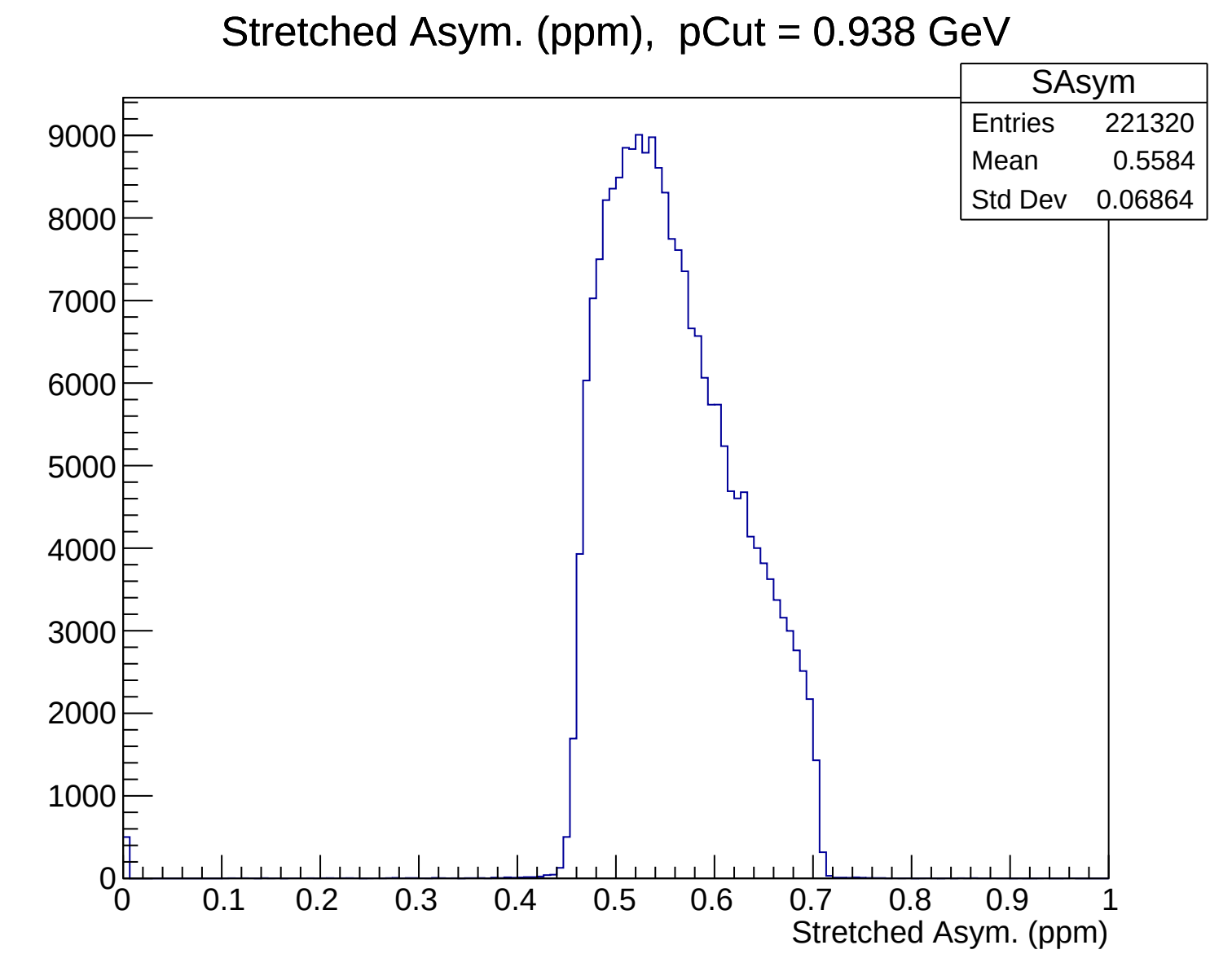

Sensitivity, pCut = 0.937 GeV
sens
Entries 226391
Mean 0.02217
Std Dev 0.003824
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

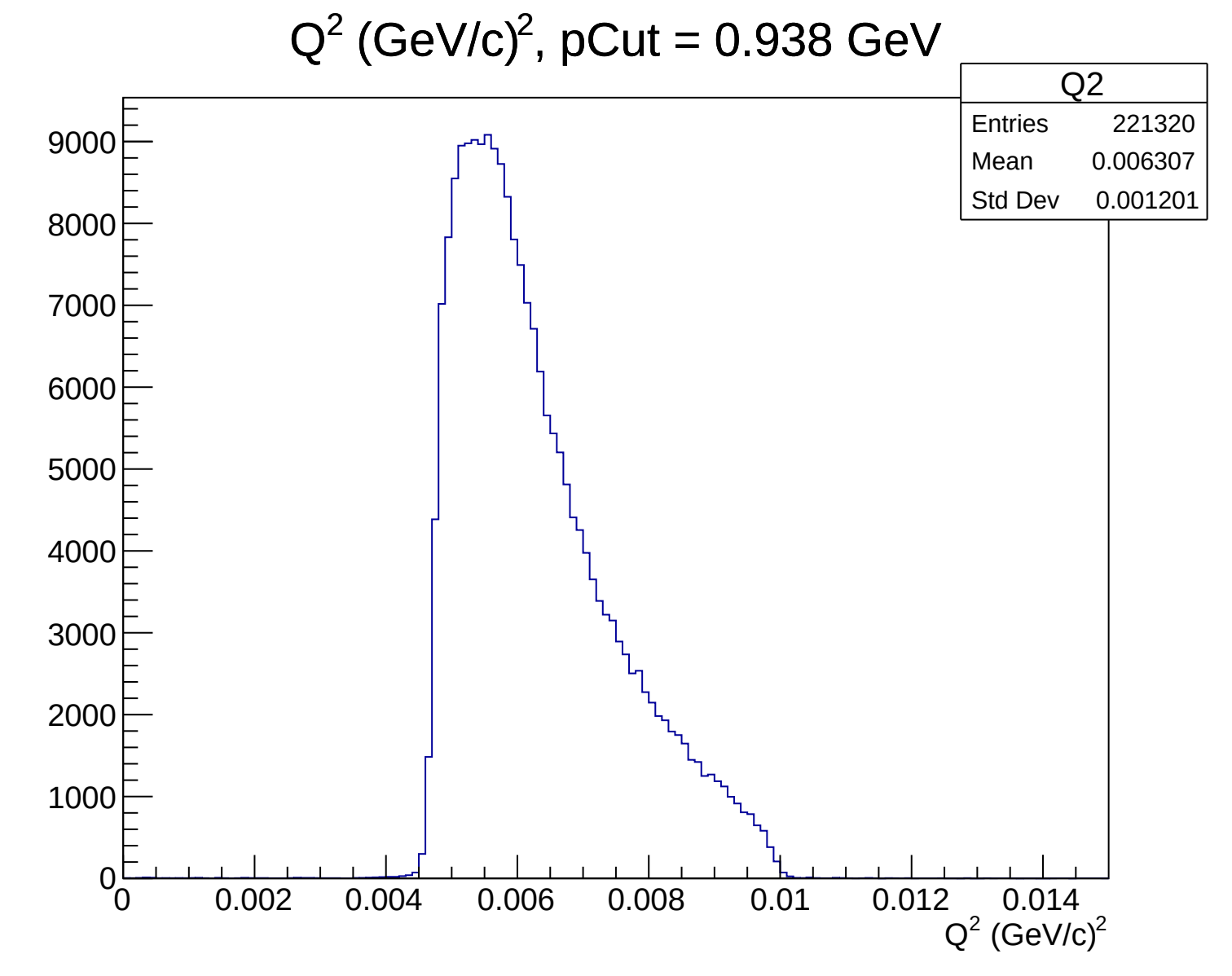

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

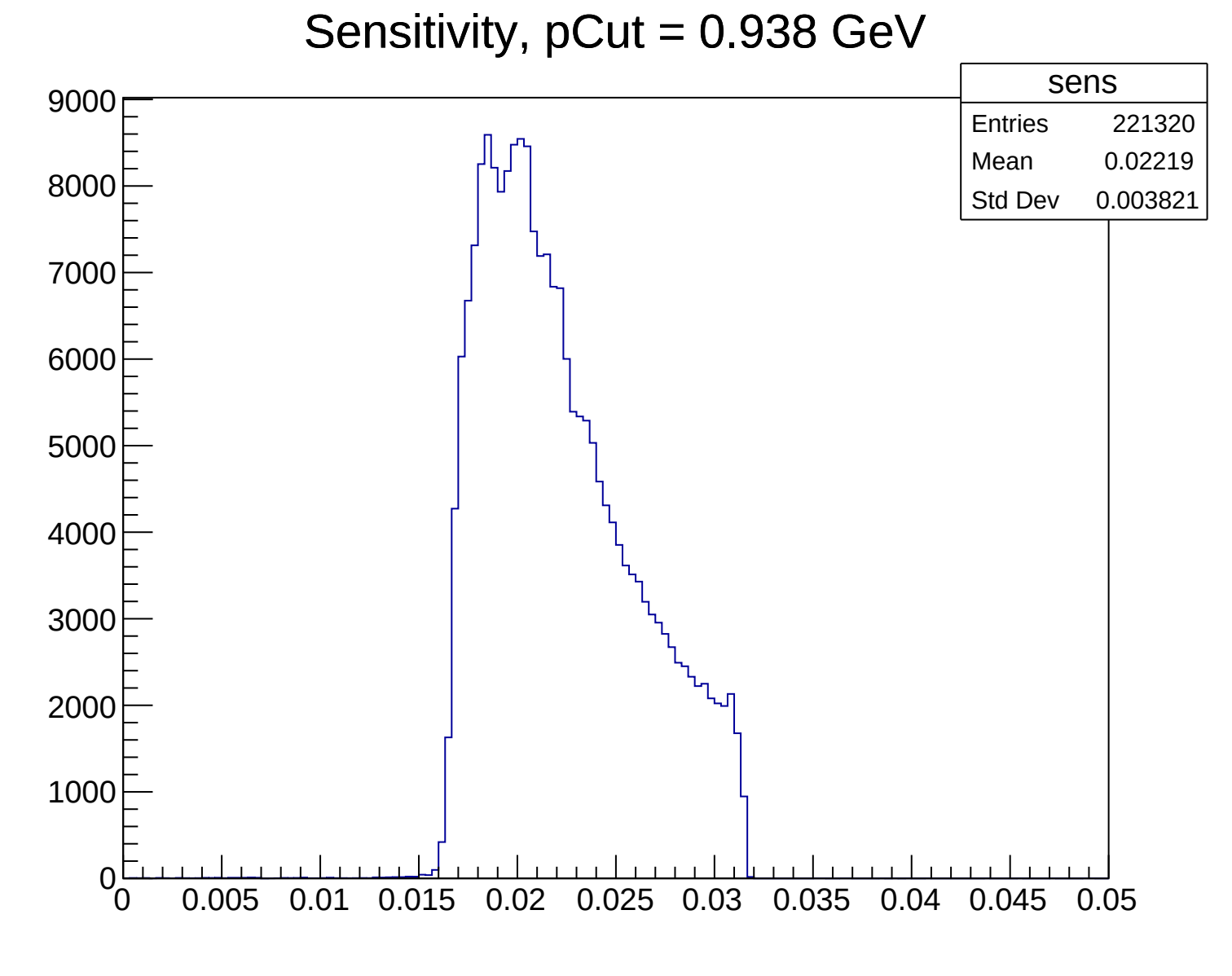

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9380 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

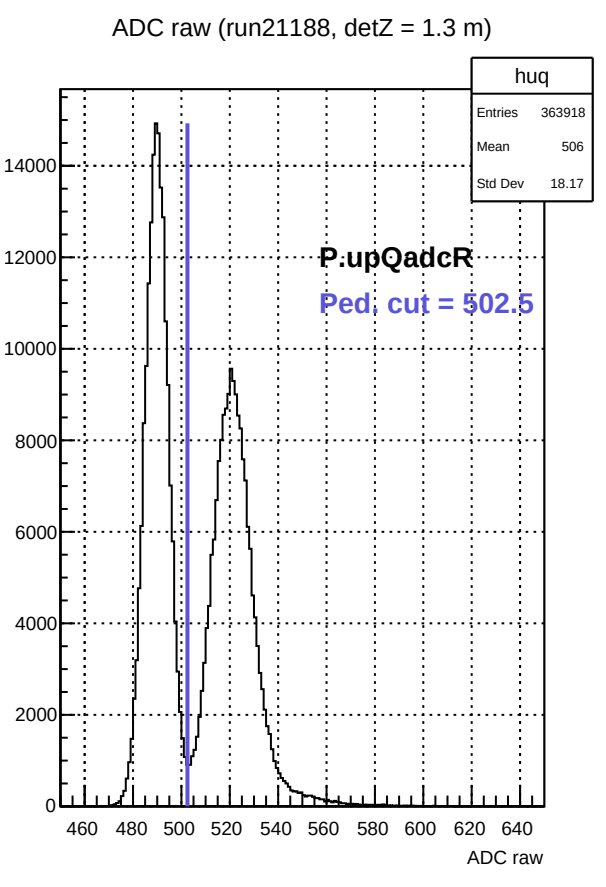

θlab (deg), pCut = 0.938 GeV
Theta
Entries 221320
Mean 4.782
Std Dev 0.4442
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

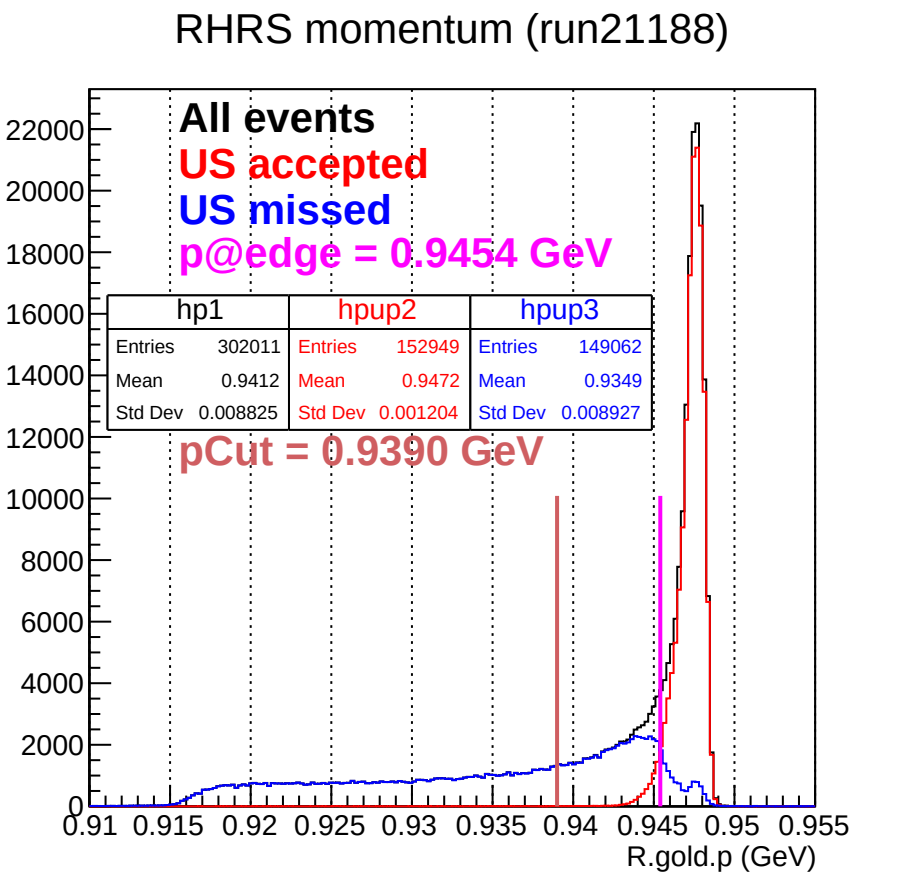

Asymmetry (ppm), pCut = 0.938 GeV
Asym
Entries 221320
Mean 0.5713
Std Dev 0.07235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

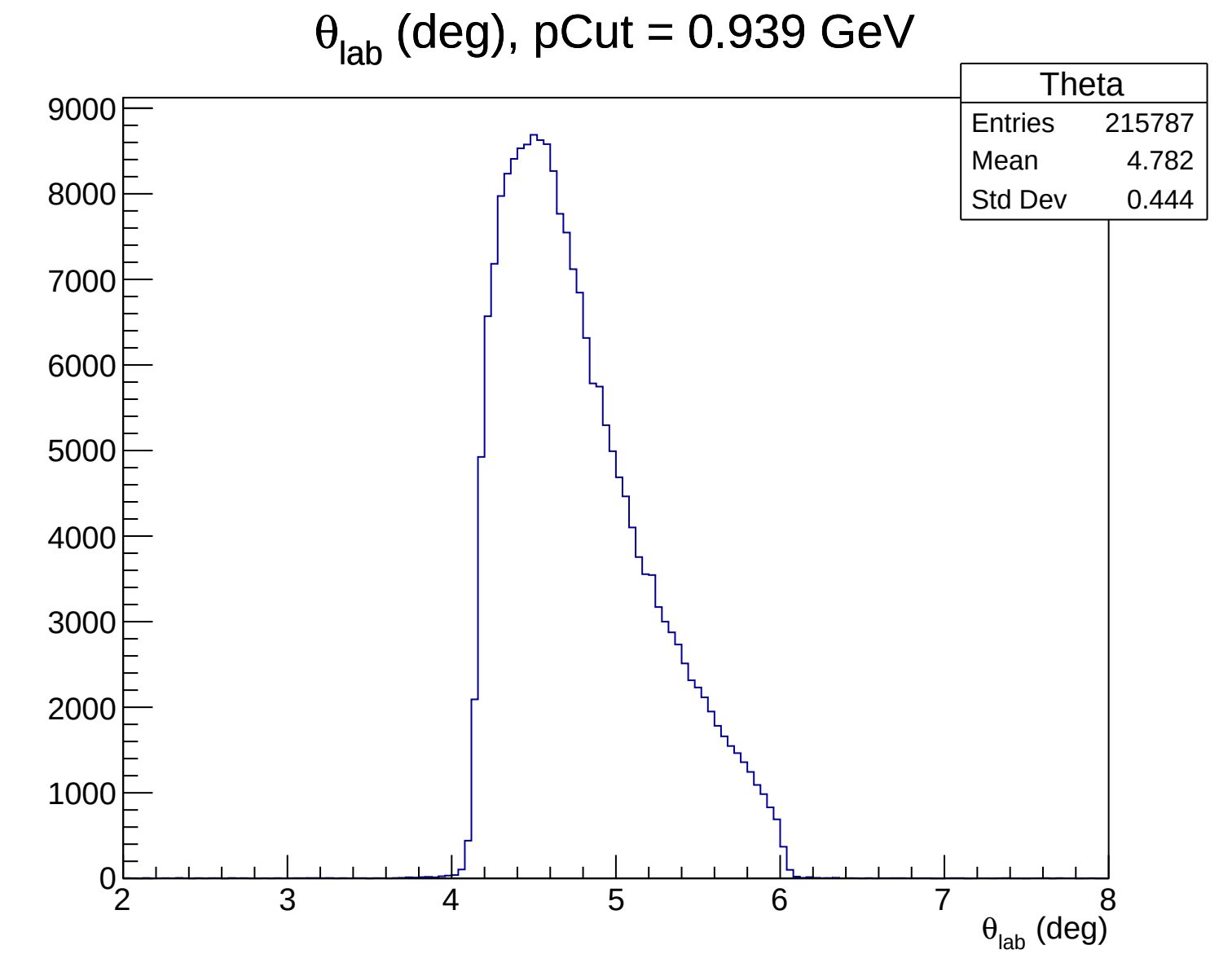

Stretched Asym. (ppm), pCut = 0.938 GeV
SAsym
Entries 221320
Mean 0.5584
Std Dev 0.06864
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

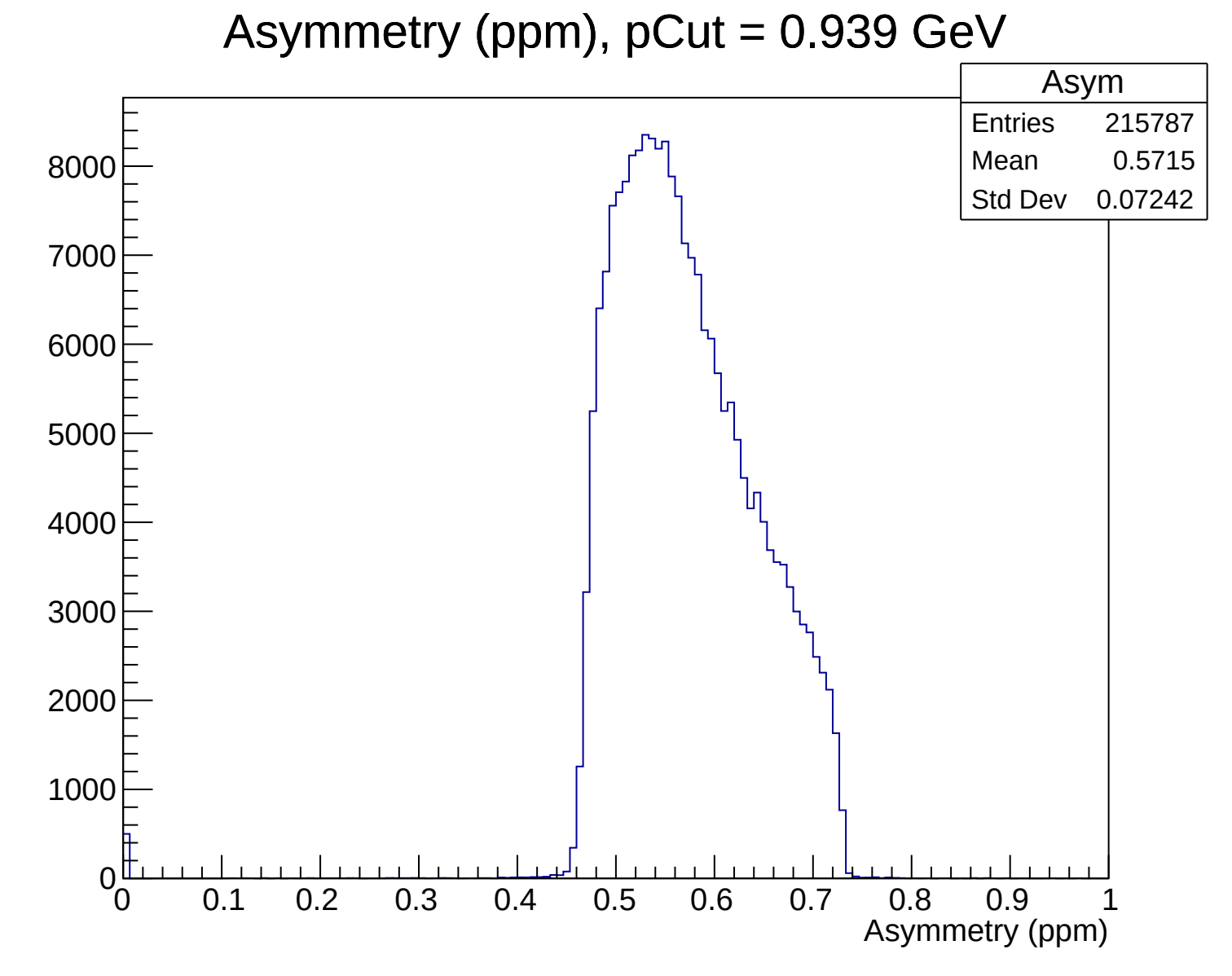

Q^2 (GeV/c)^2, pCut = 0.938 GeV
Q2
Entries 221320
Mean 0.006307
Std Dev 0.001201
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

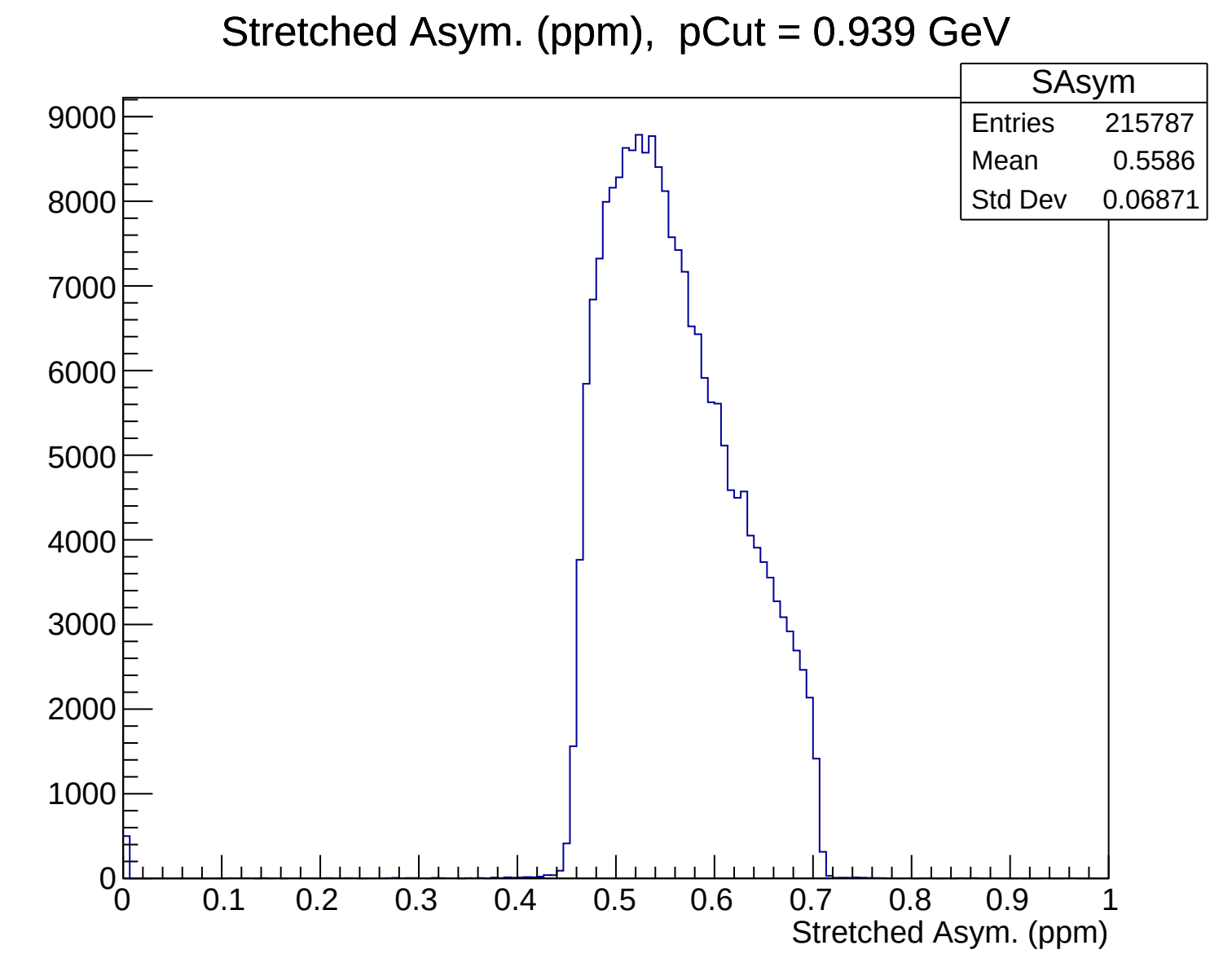

Sensitivity, pCut = 0.938 GeV
sens
Entries 221320
Mean 0.02219
Std Dev 0.003821
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

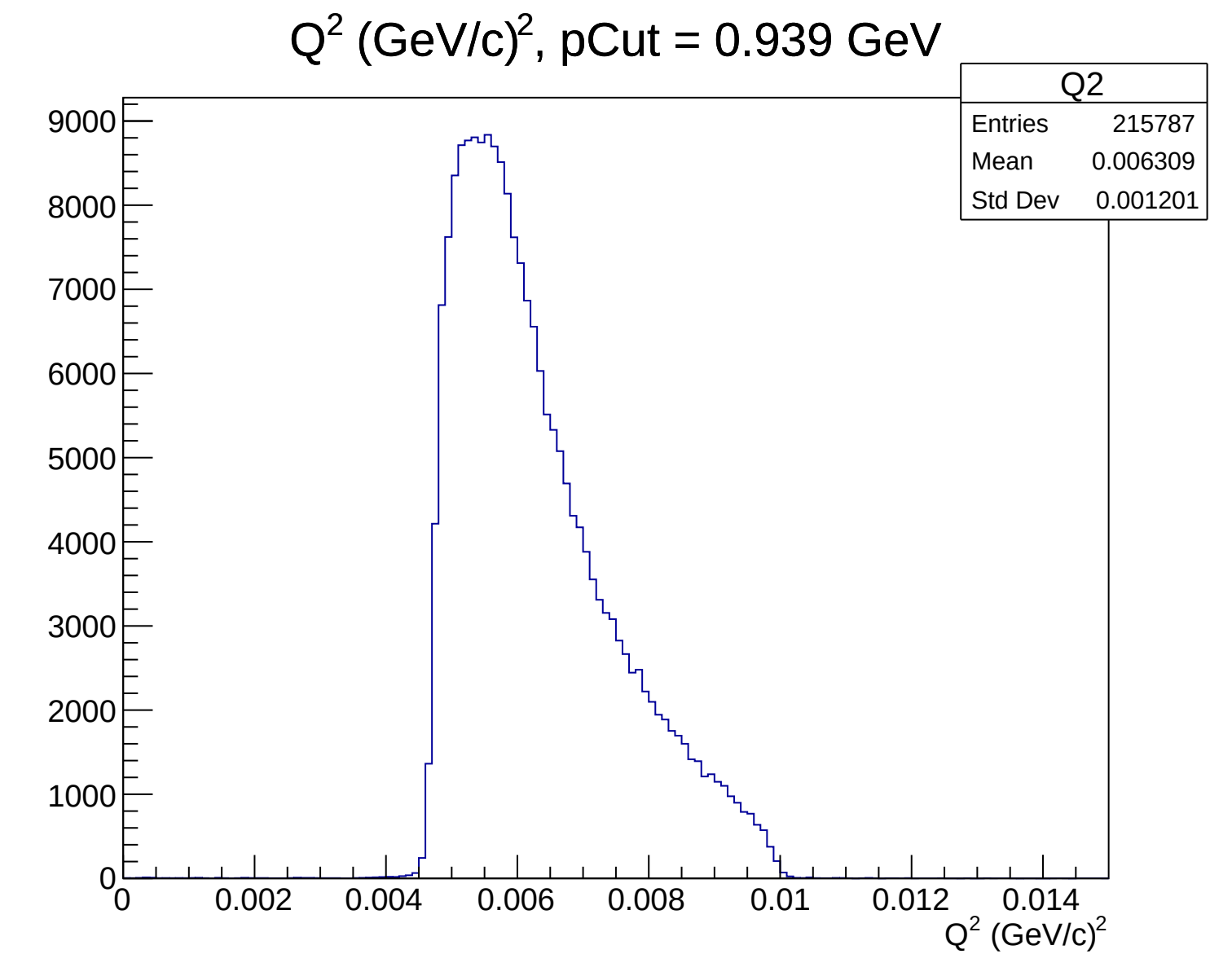

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

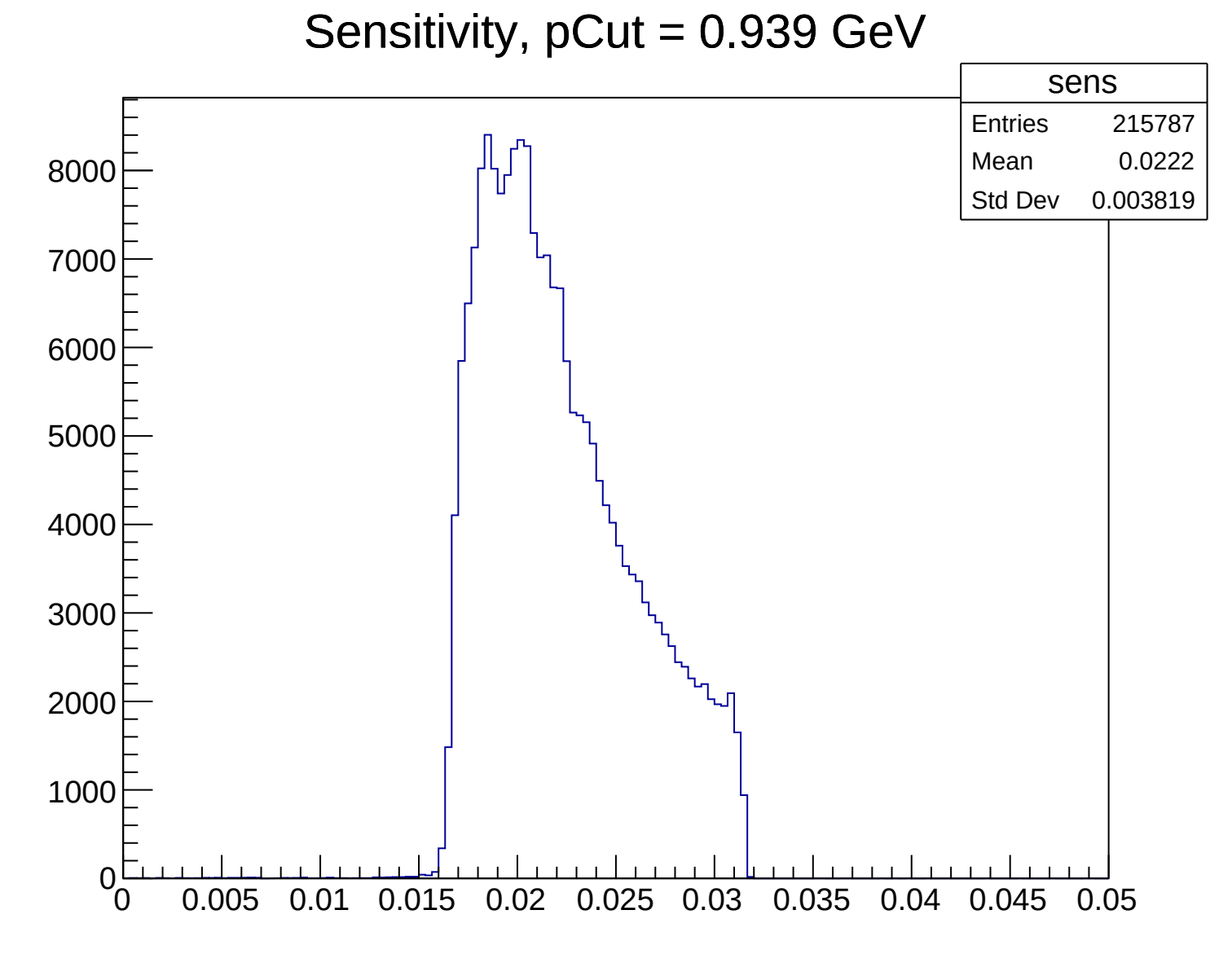

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9390 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

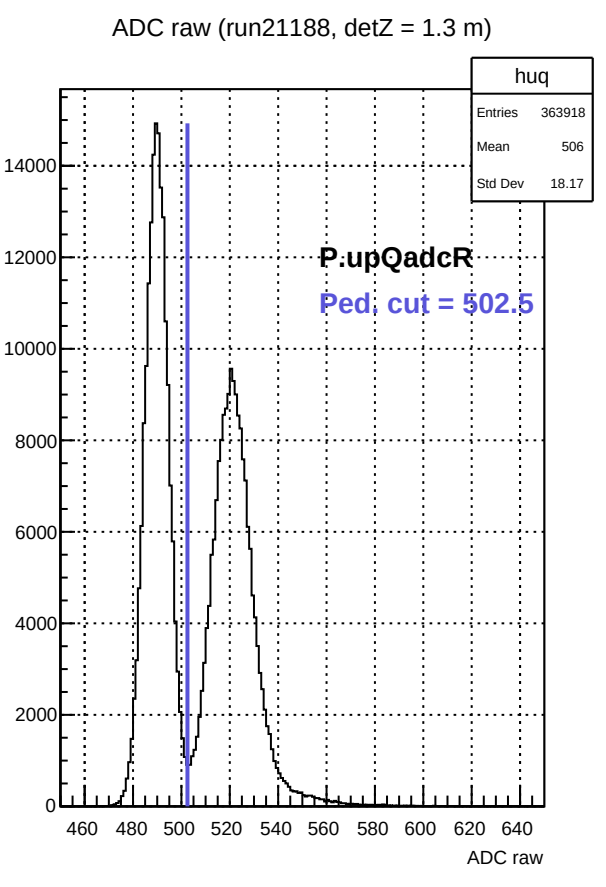

θlab (deg), pCut = 0.939 GeV
Theta
Entries 215787
Mean 4.782
Std Dev 0.444
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

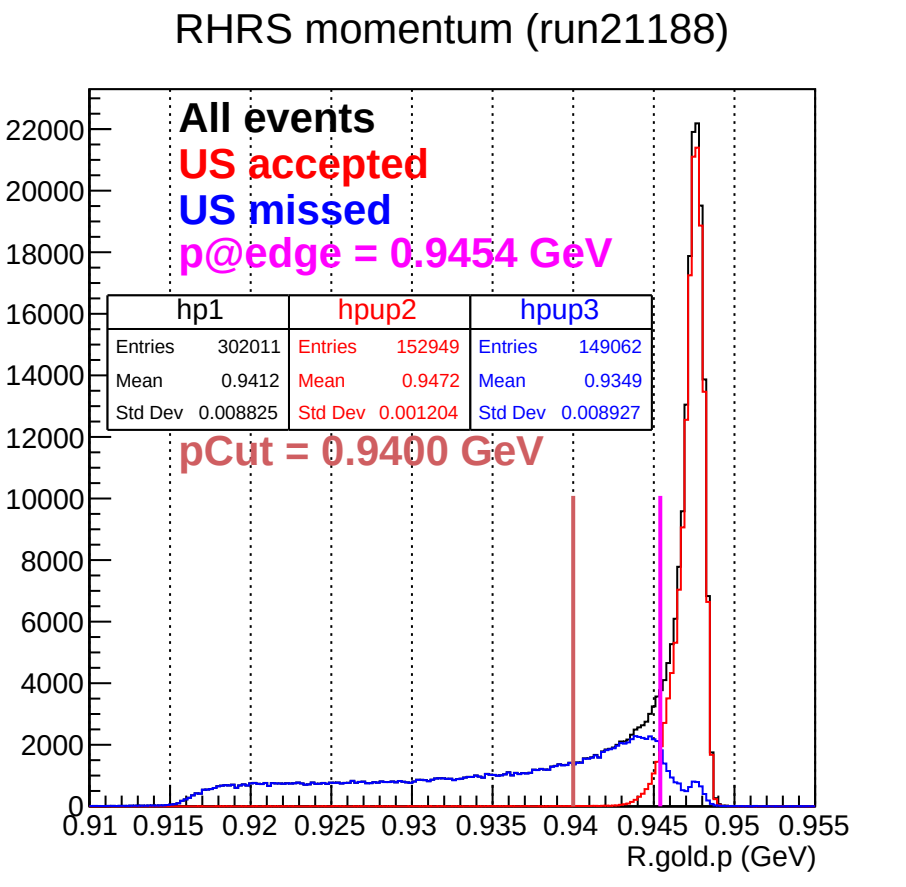

Asymmetry (ppm), pCut = 0.939 GeV
Asym
Entries 215787
Mean 0.5715
Std Dev 0.07242
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

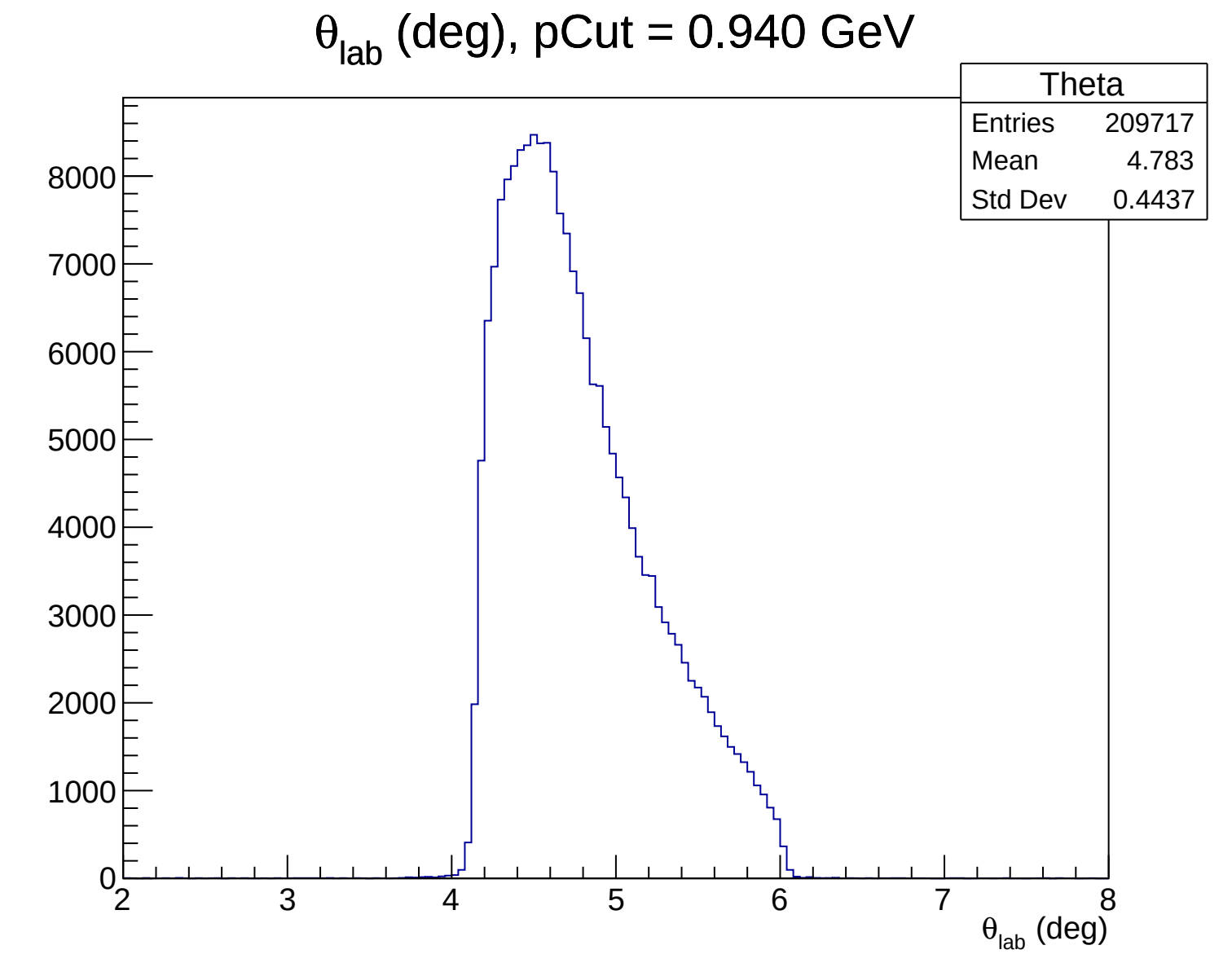

Stretched Asym. (ppm), pCut = 0.939 GeV
SAsym
Entries 215787
Mean 0.5586
Std Dev 0.06871
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

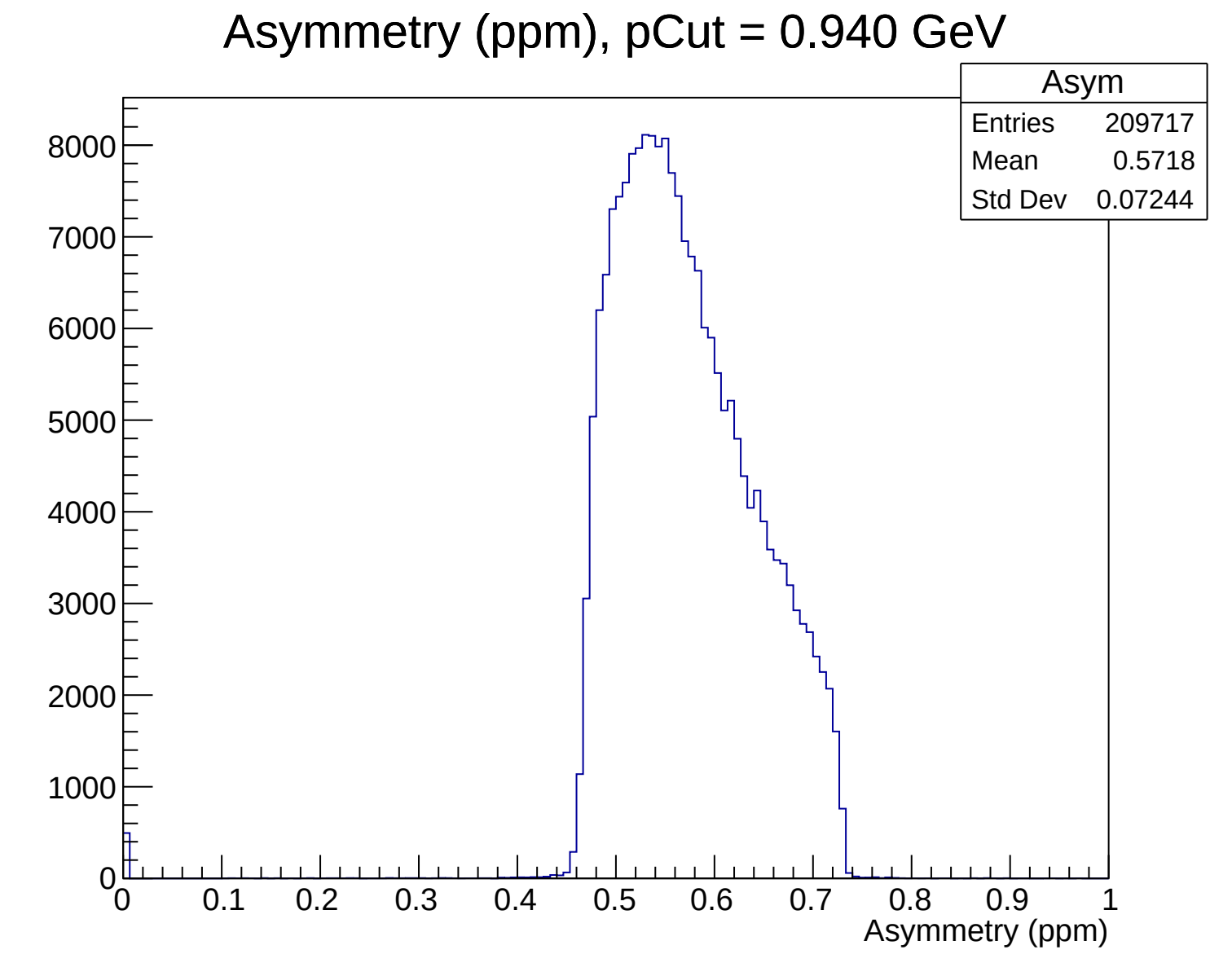

Q^2 (GeV/c)^2, pCut = 0.939 GeV
Q2
Entries 215787
Mean 0.006309
Std Dev 0.001201
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

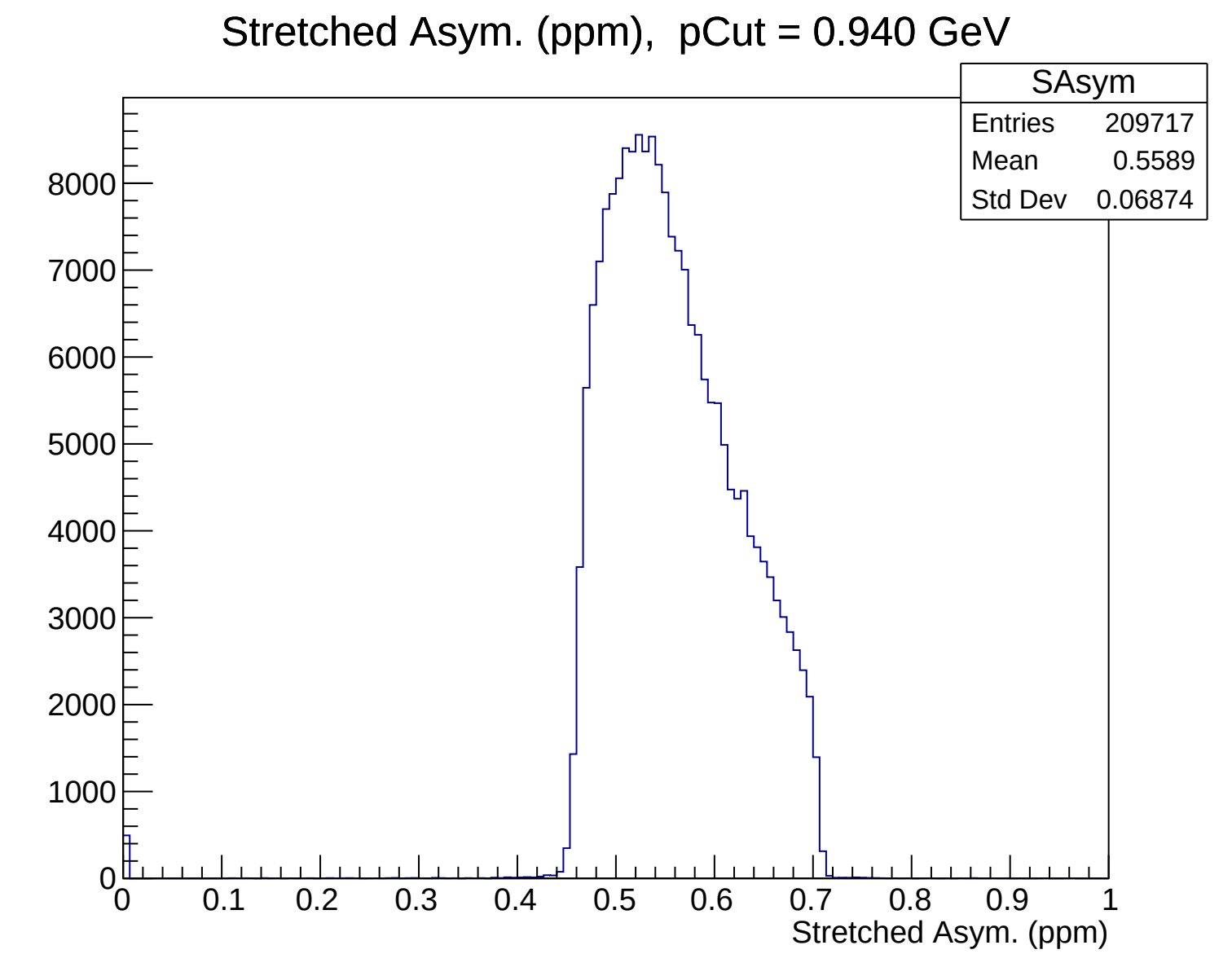

Sensitivity, pCut = 0.939 GeV
sens
Entries 215787
Mean 0.0222
Std Dev 0.003819
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

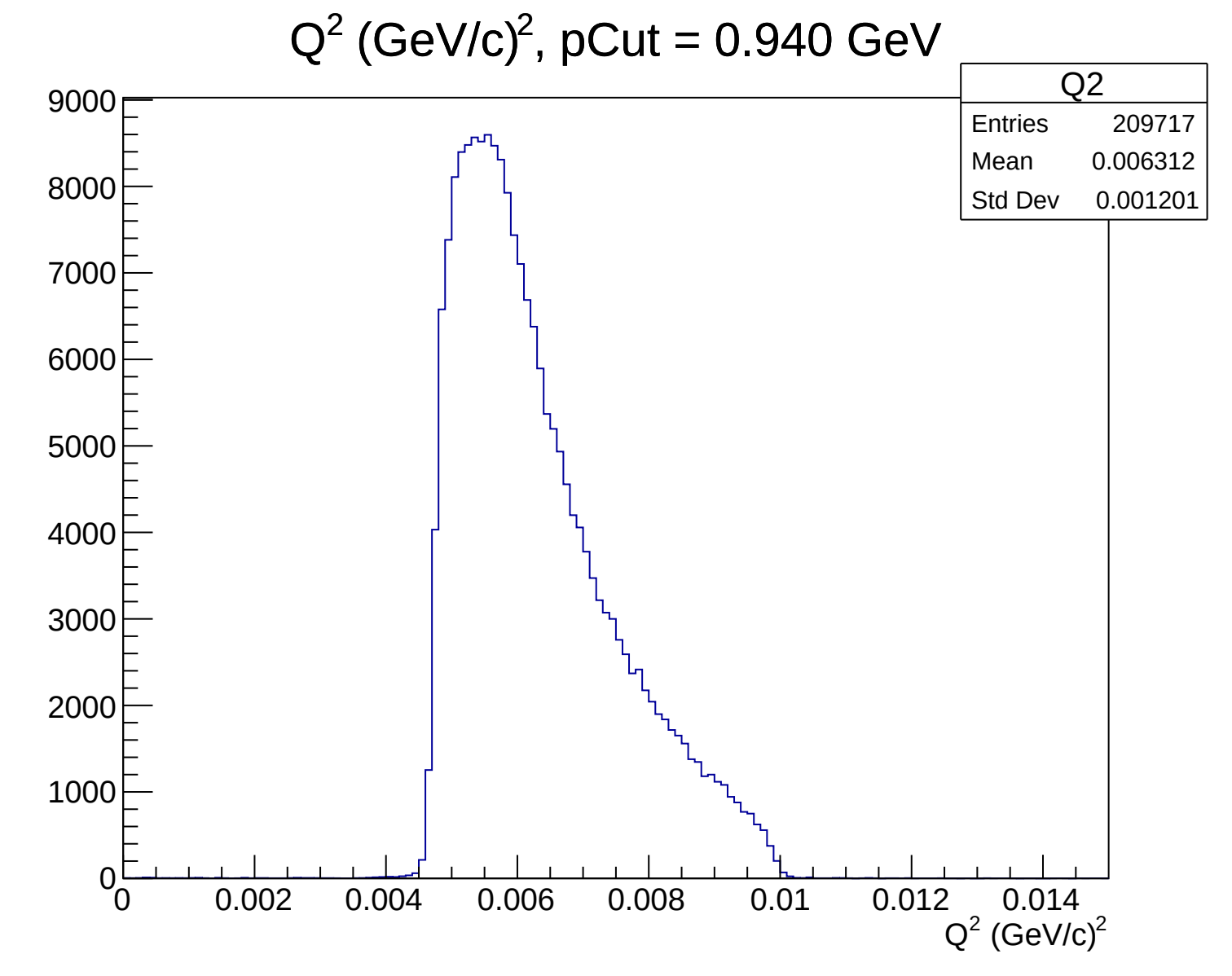

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

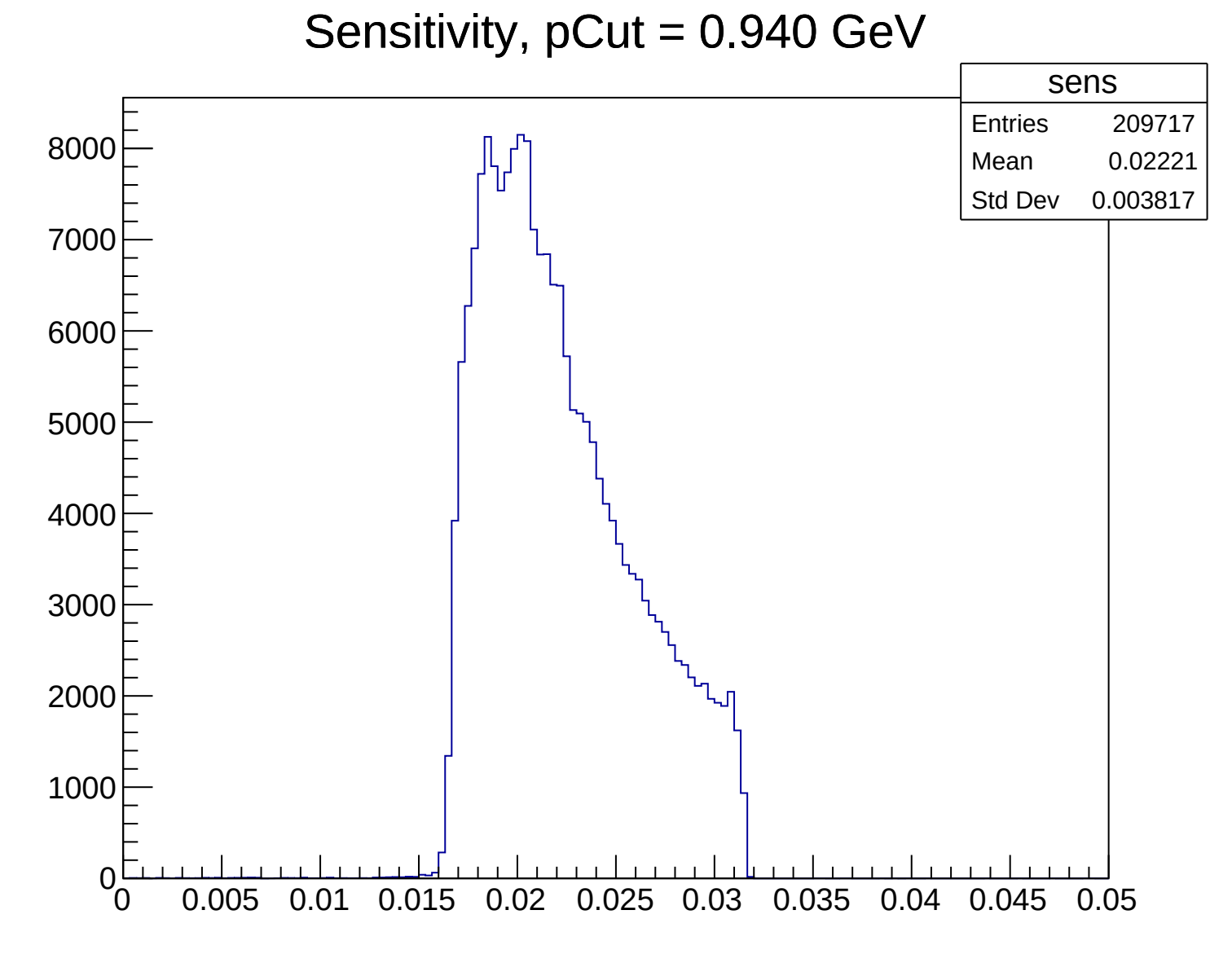

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9400 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

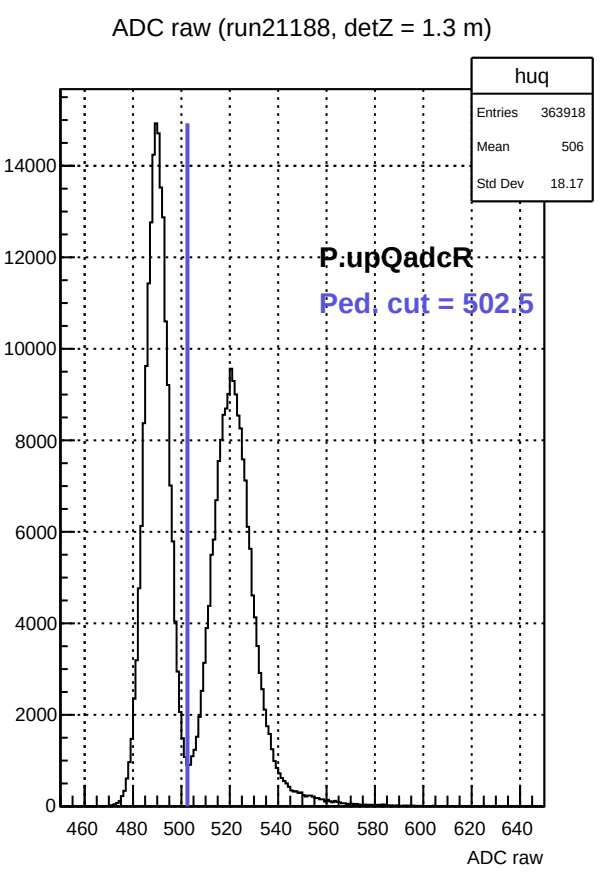

θlab (deg), pCut = 0.940 GeV
Theta
Entries 209717
Mean 4.783
Std Dev 0.4437
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

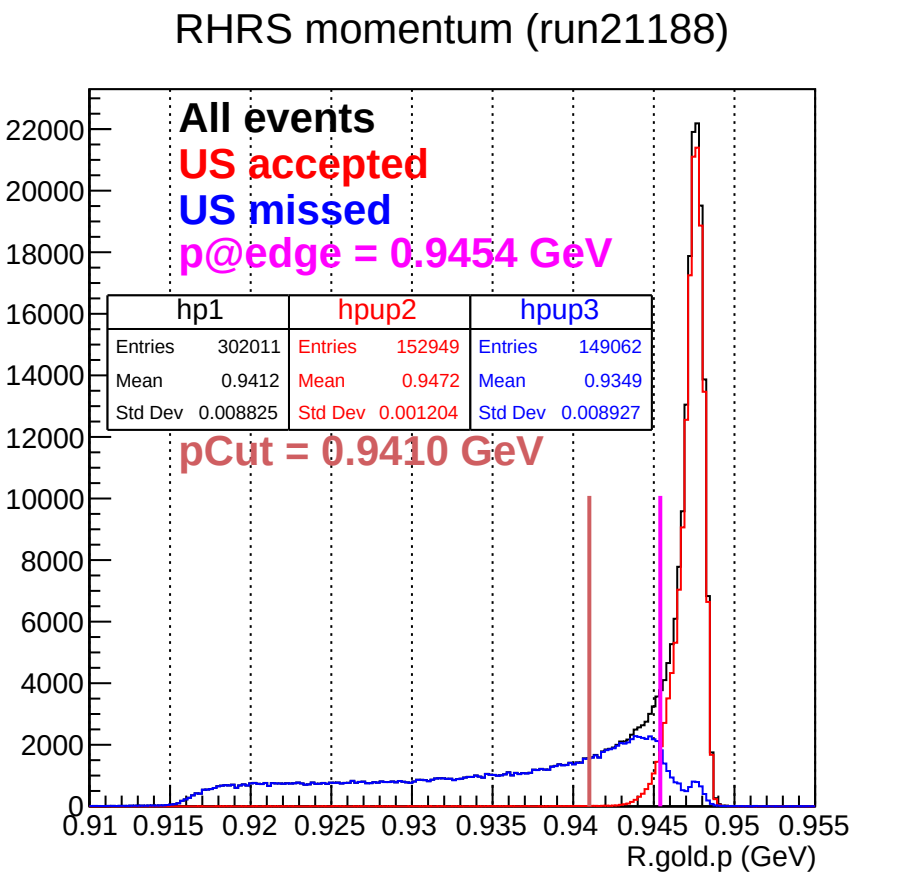

Asymmetry (ppm), pCut = 0.940 GeV
Asym
Entries 209717
Mean 0.5718
Std Dev 0.07244
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

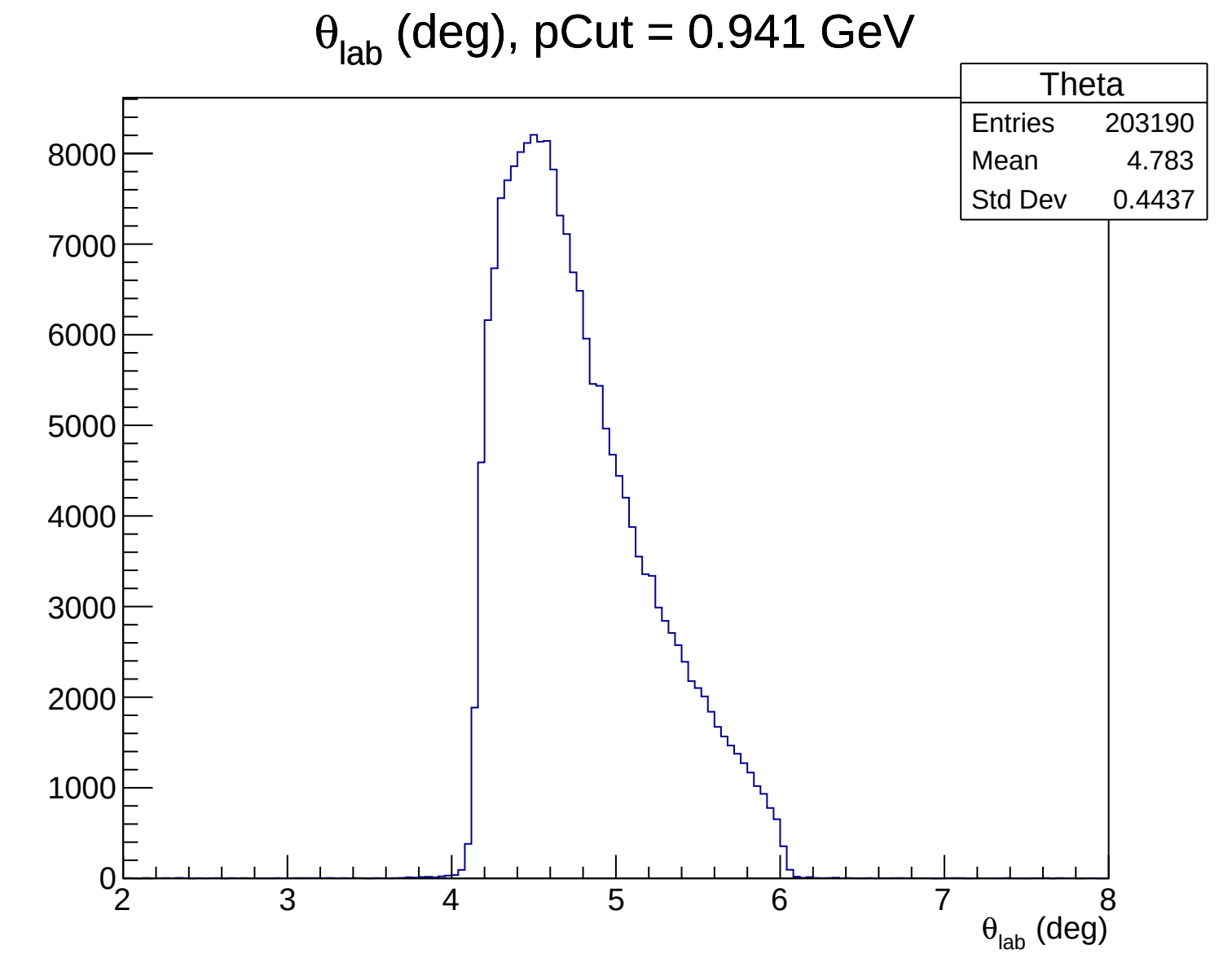

Stretched Asym. (ppm), pCut = 0.940 GeV
SAsym
Entries 209717
Mean 0.5589
Std Dev 0.06874
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

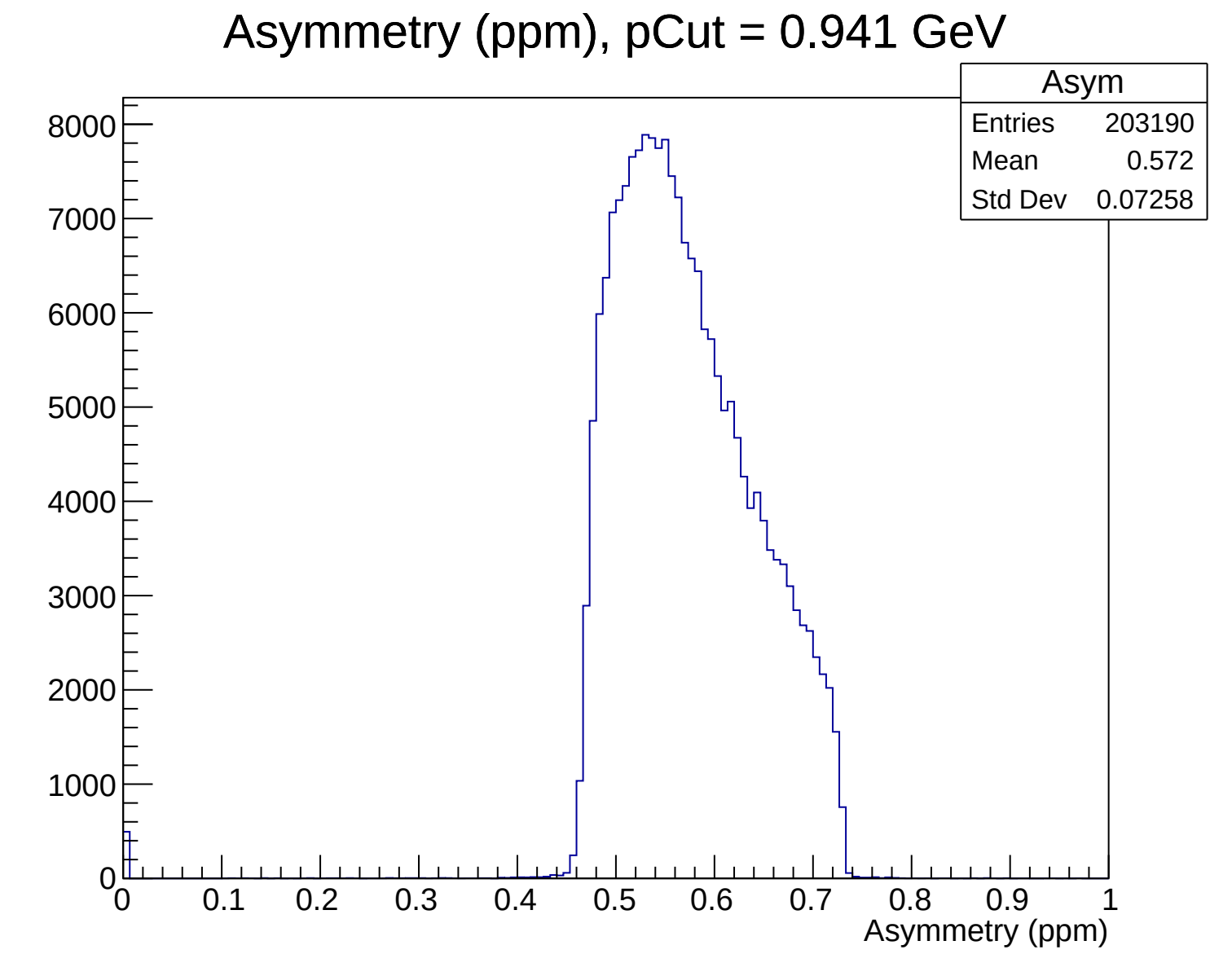

Q^2 (GeV/c)^2, pCut = 0.940 GeV
Q2
Entries 209717
Mean 0.006312
Std Dev 0.001201
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

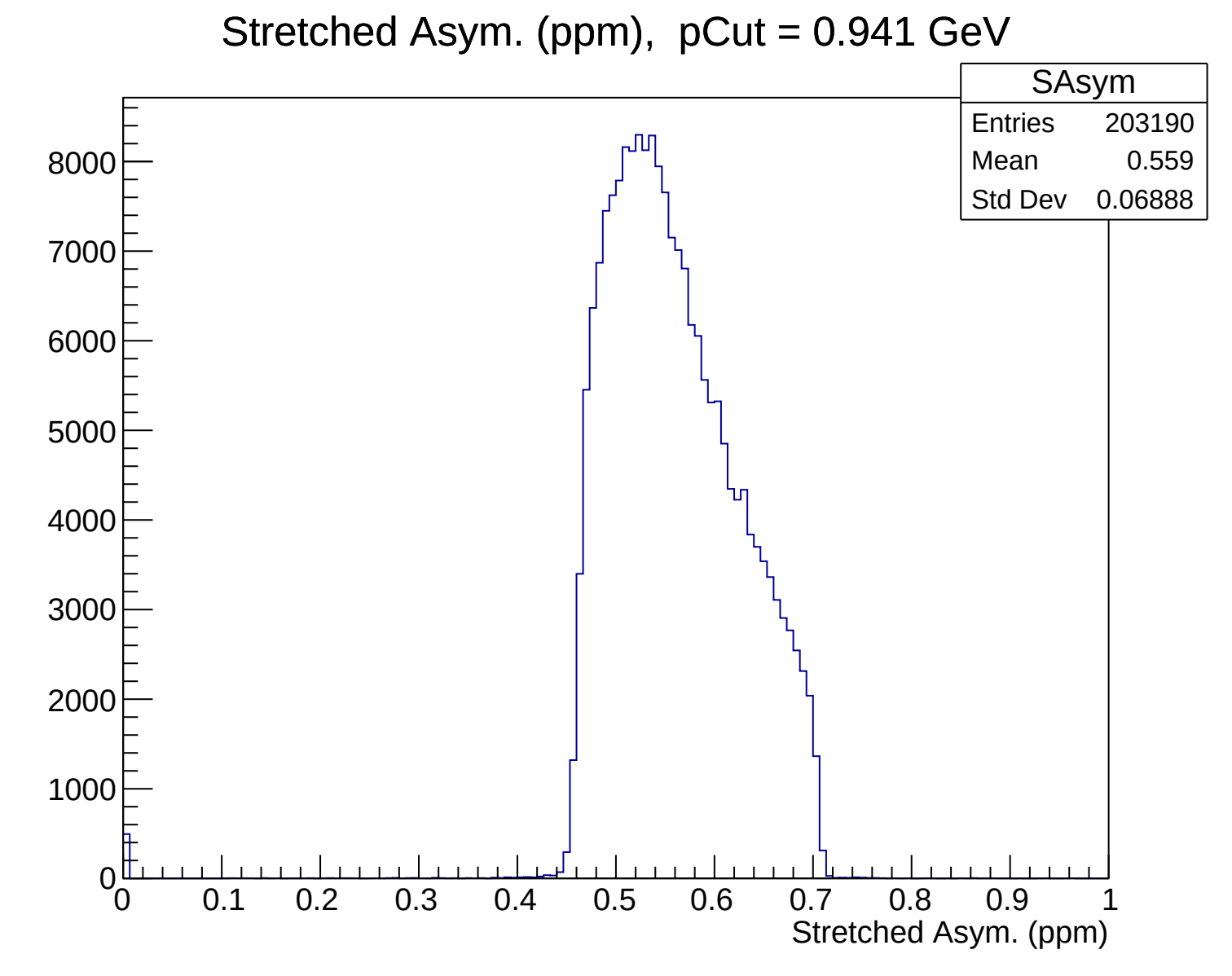

Sensitivity, pCut = 0.940 GeV
sens
Entries 209717
Mean 0.02221
Std Dev 0.003817
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

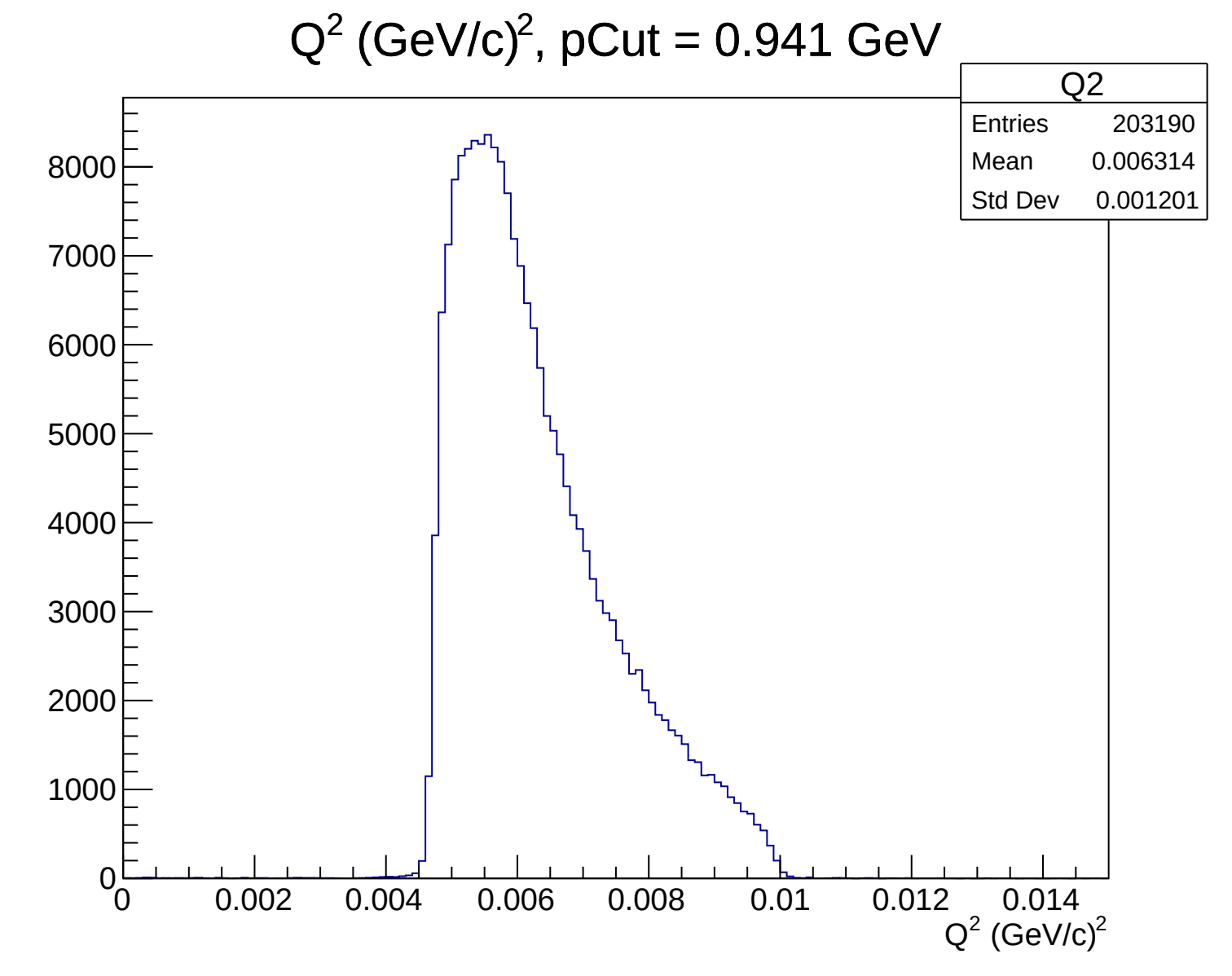

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

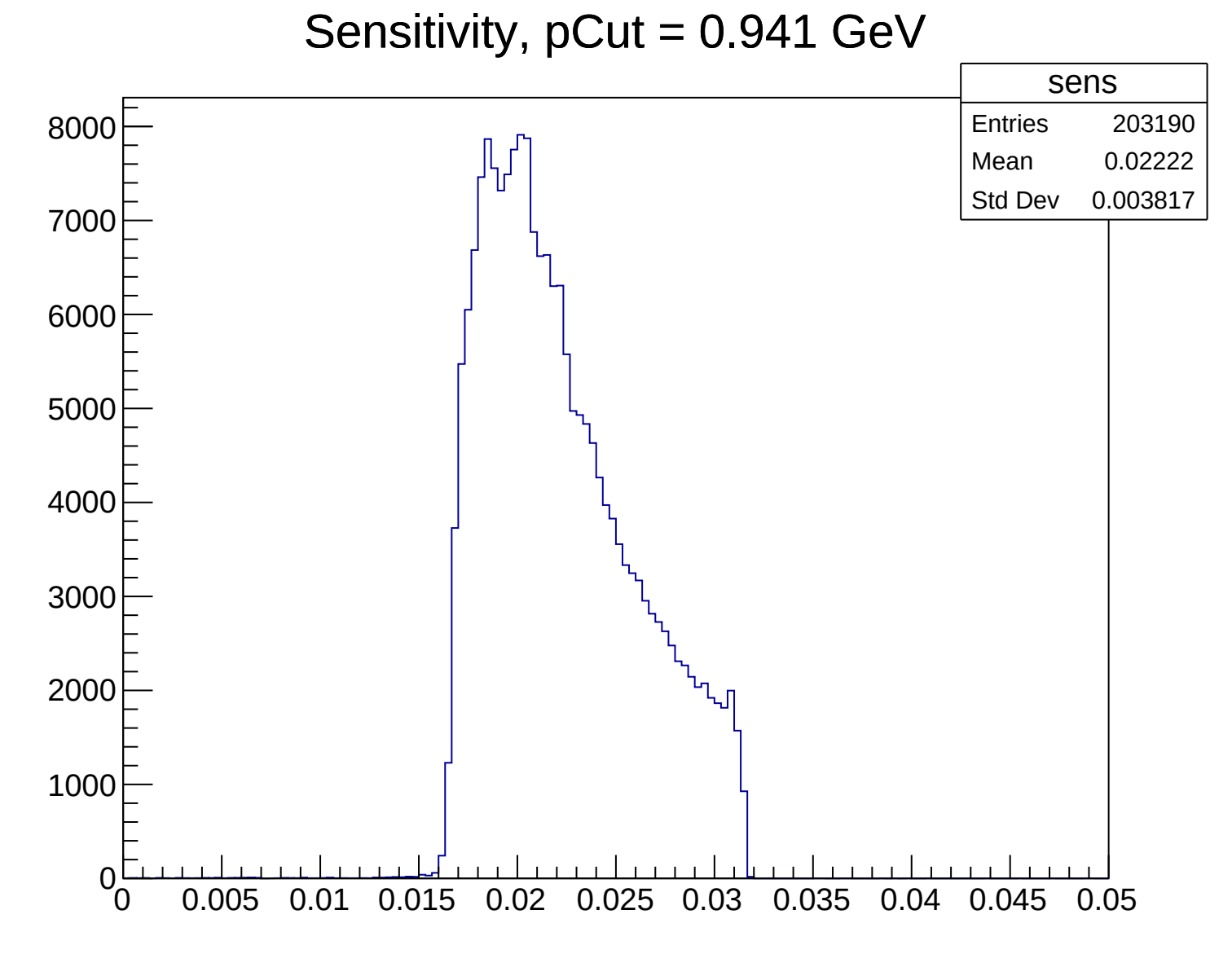

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9410 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

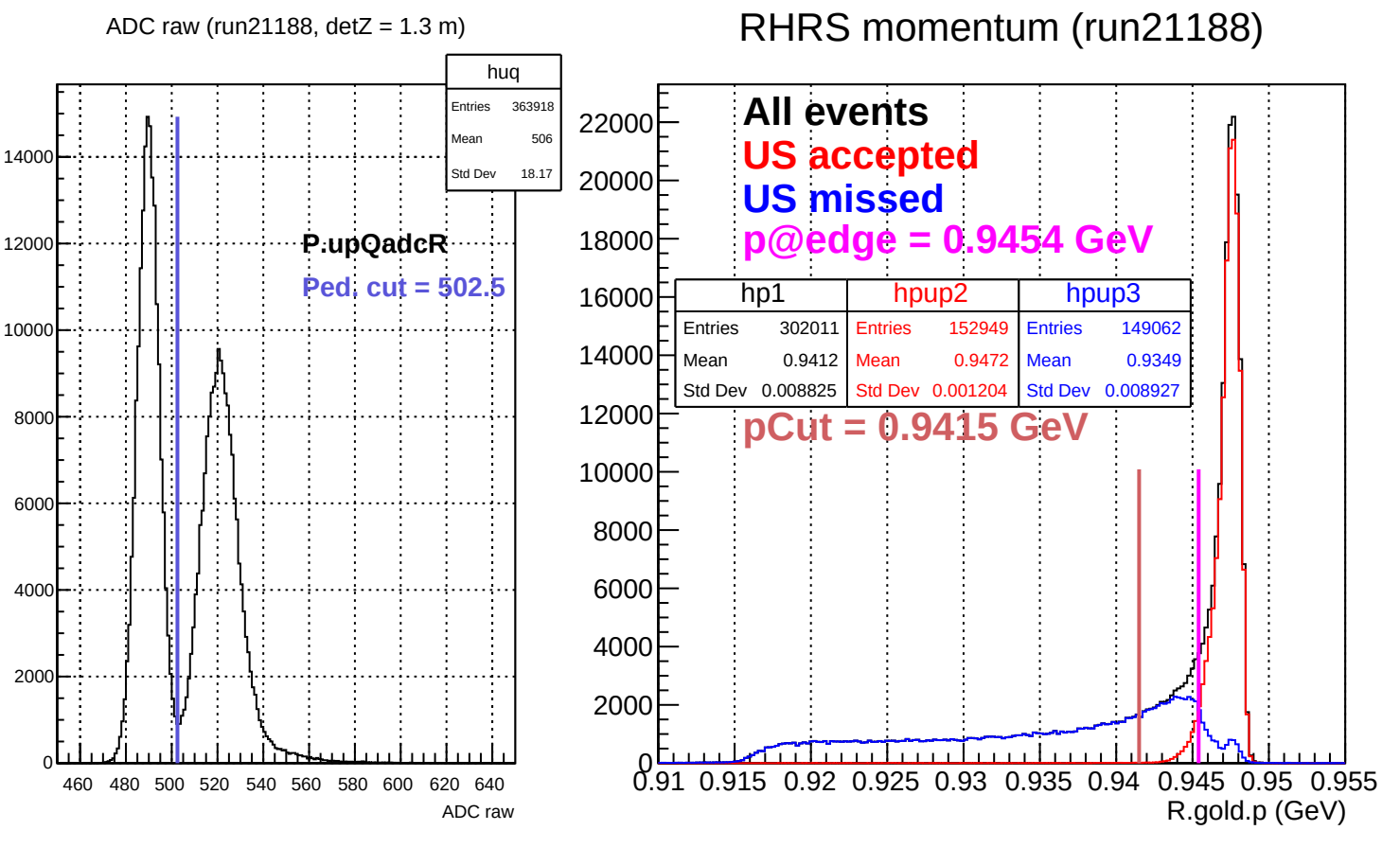

θlab (deg), pCut = 0.941 GeV
Theta
Entries 203190
Mean 4.783
Std Dev 0.4437
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

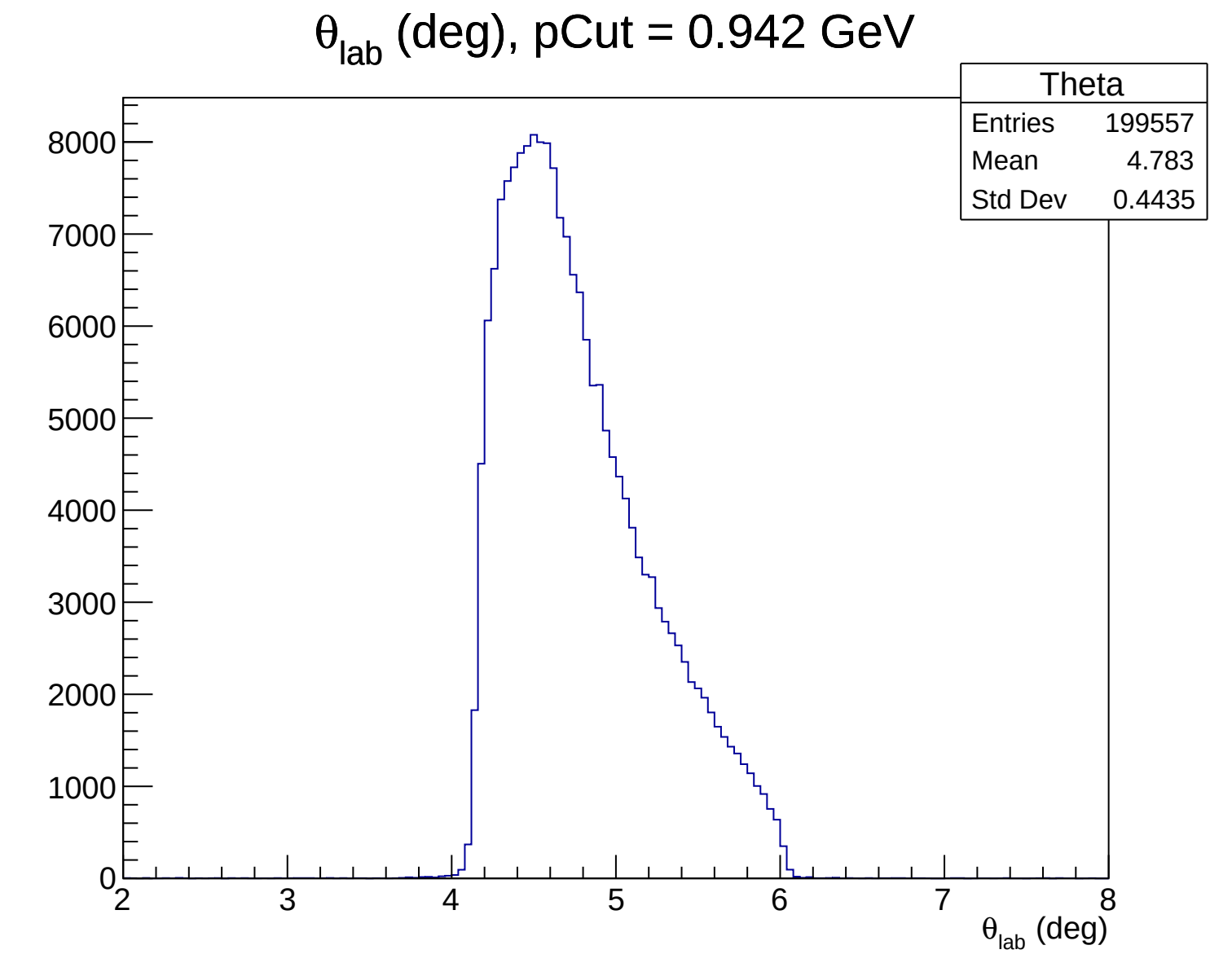

Asymmetry (ppm), pCut = 0.941 GeV
Asym
Entries 203190
Mean 0.572
Std Dev 0.07258
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

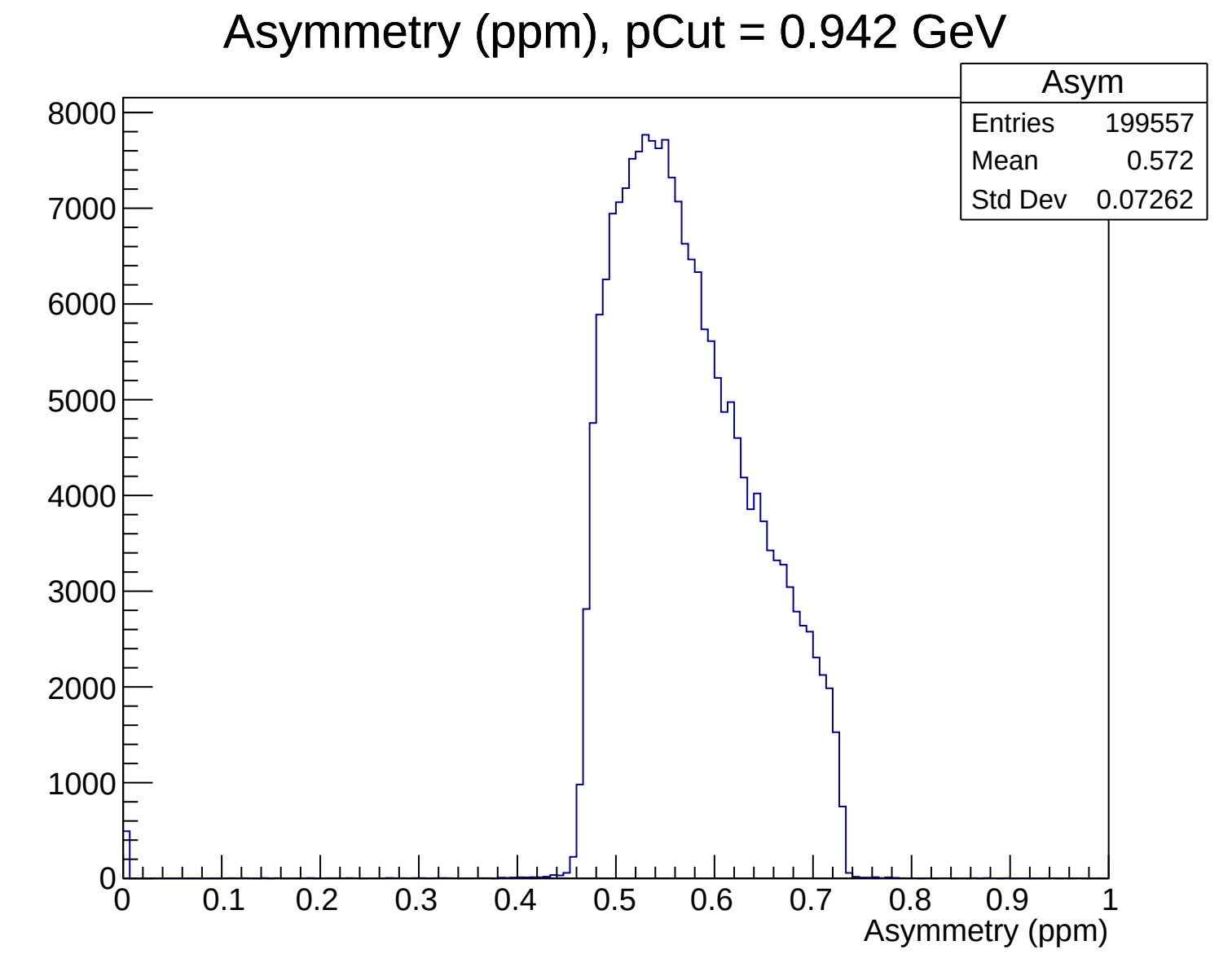

Stretched Asym. (ppm), pCut = 0.941 GeV
SAsym
Entries 203190
Mean 0.559
Std Dev 0.06888
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

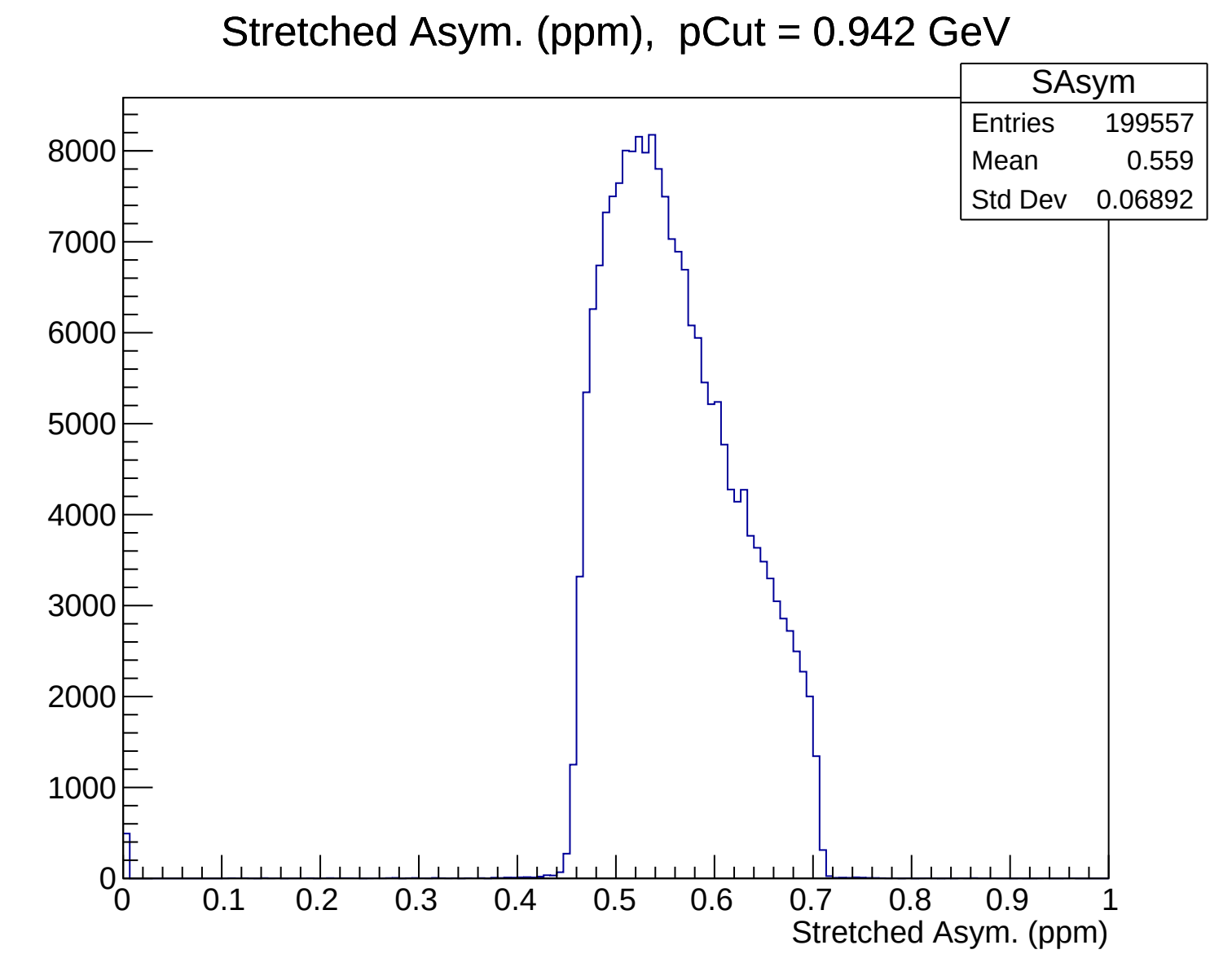

Q^2 (GeV/c)^2, pCut = 0.941 GeV
Q2
Entries 203190
Mean 0.006314
Std Dev 0.001201
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

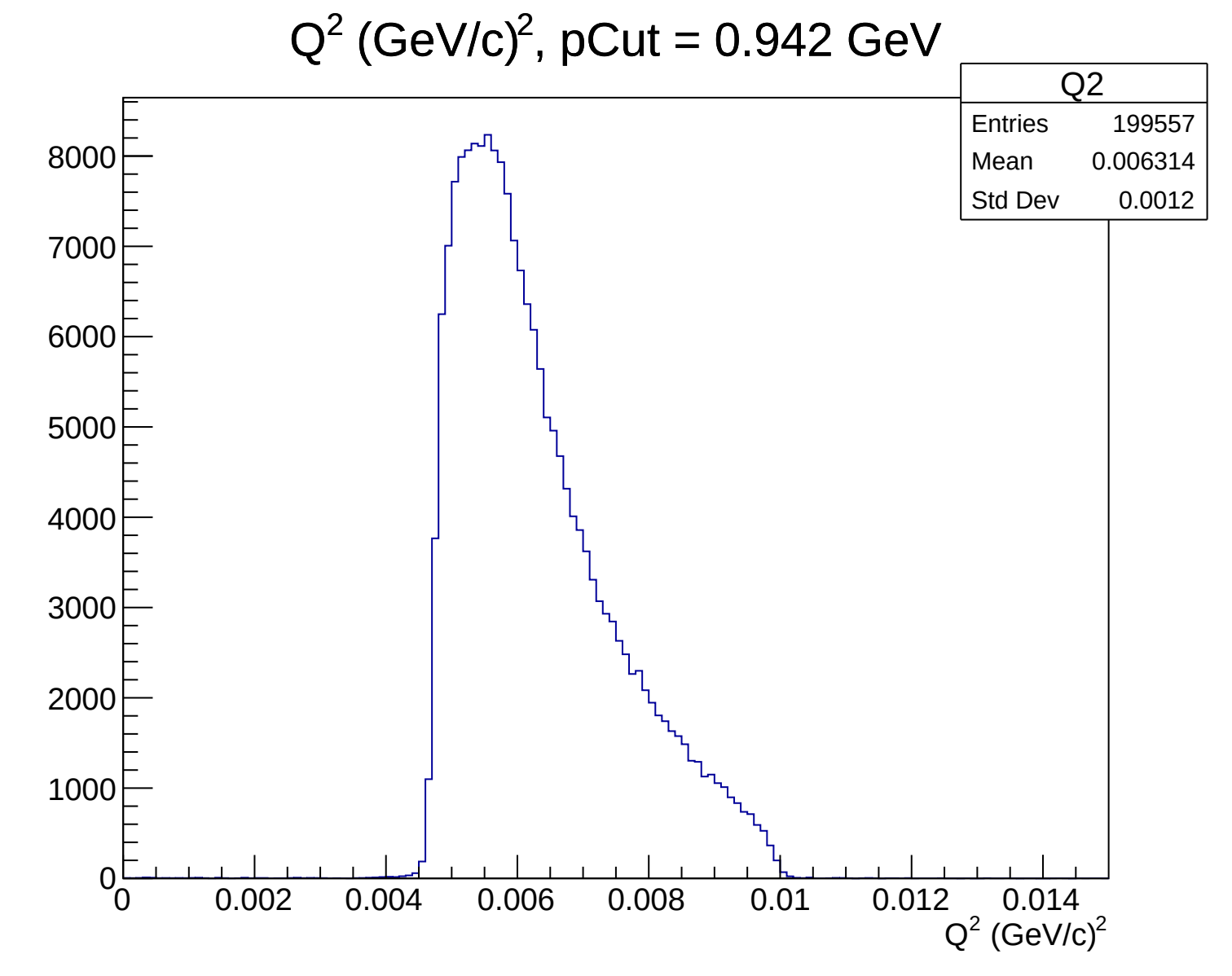

Sensitivity, pCut = 0.941 GeV
sens
Entries 203190
Mean 0.02222
Std Dev 0.003817
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

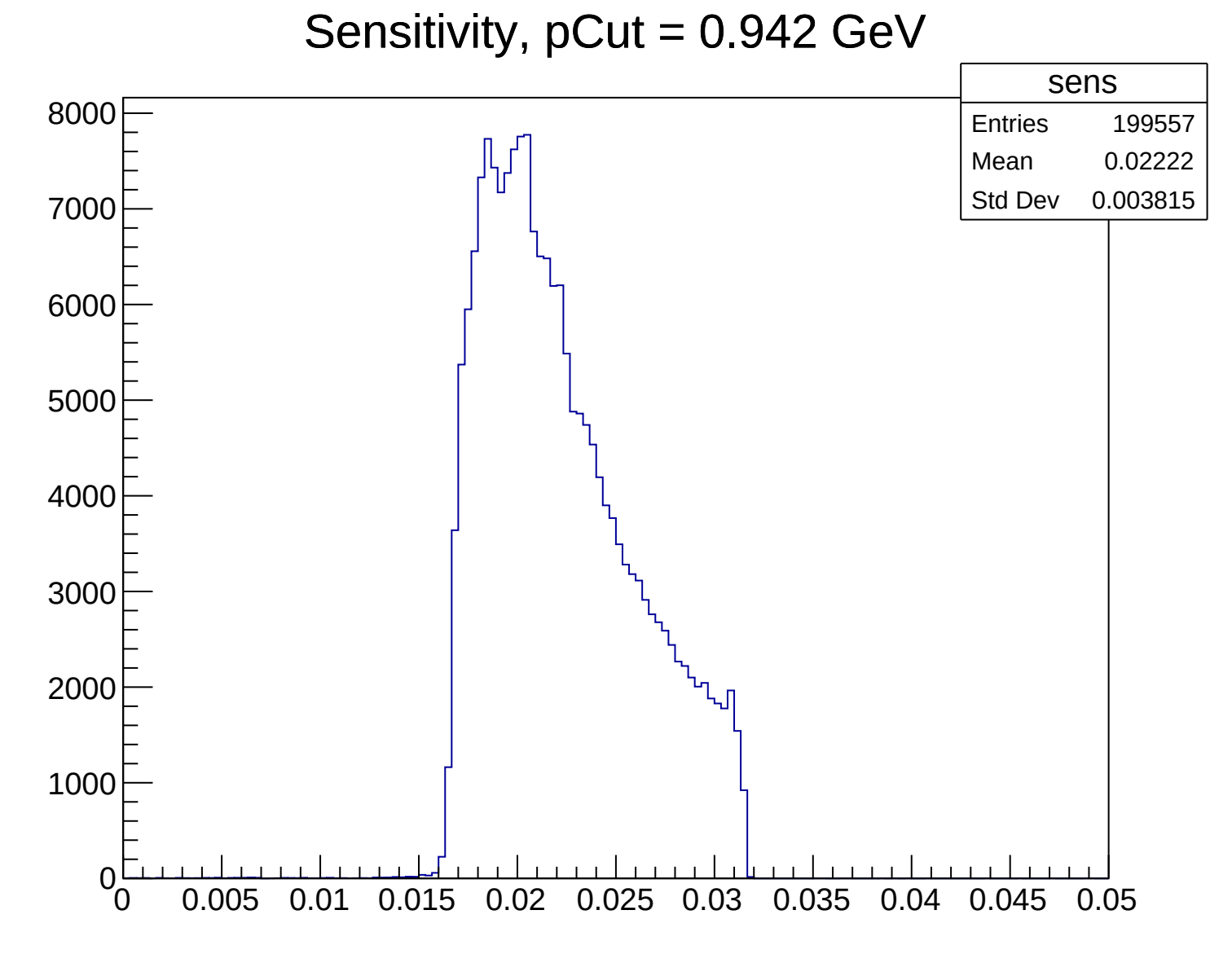

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9415 GeV
R.gold.p (GeV)

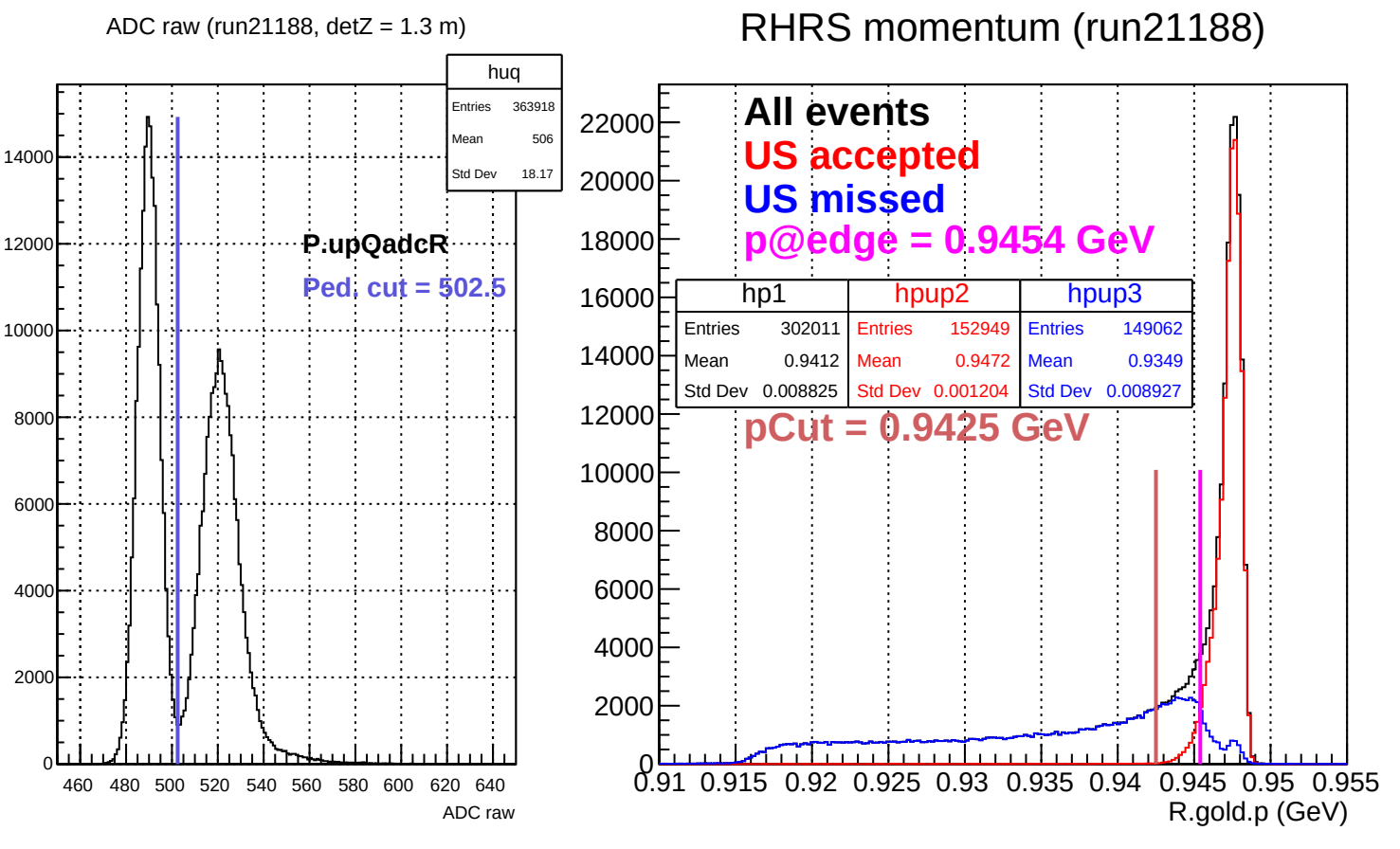

θlab (deg), pCut = 0.942 GeV
Theta
Entries 199557
Mean 4.783
Std Dev 0.4435
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

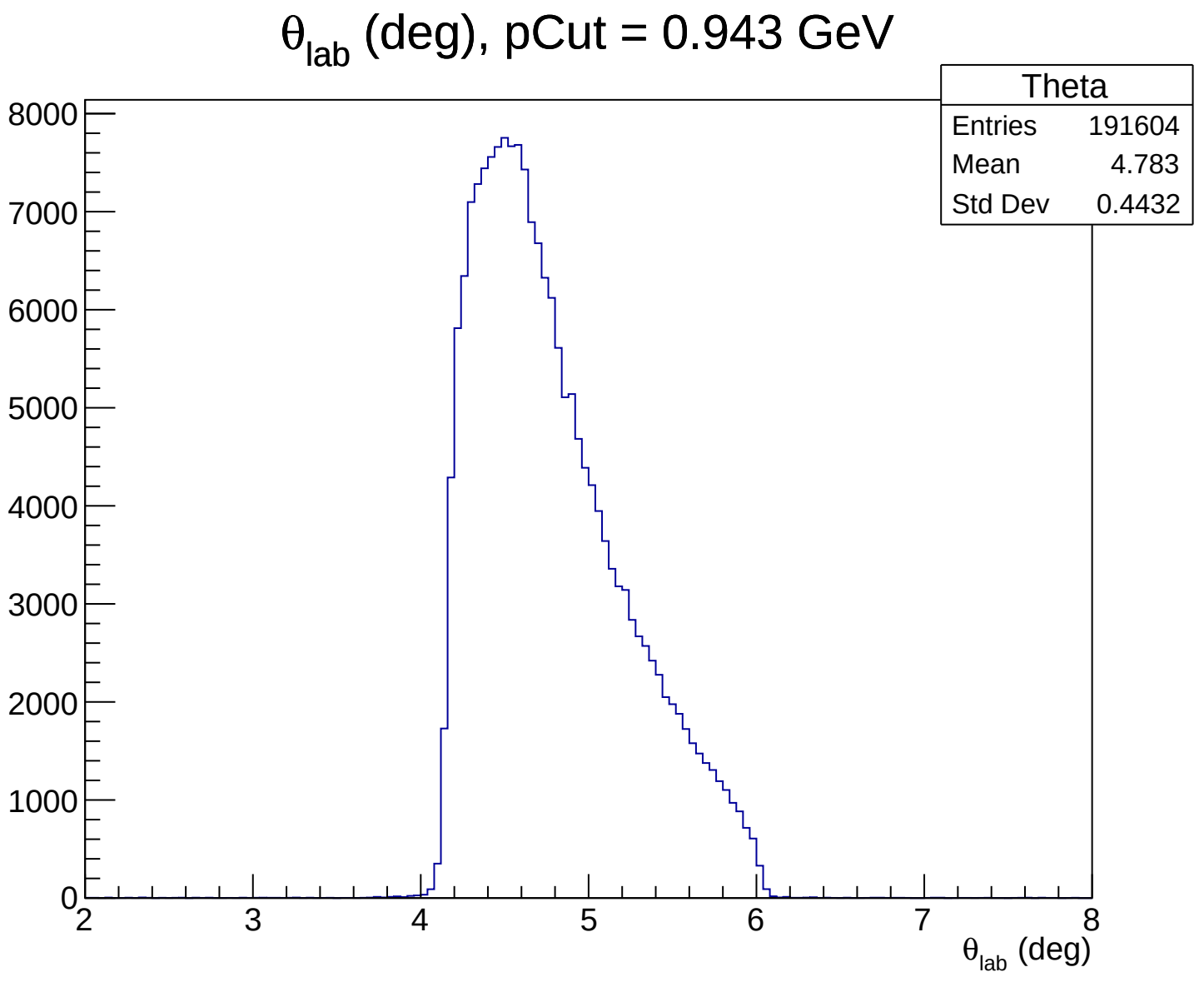

Asymmetry (ppm), pCut = 0.942 GeV
Asym
Entries 199557
Mean 0.572
Std Dev 0.07262
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

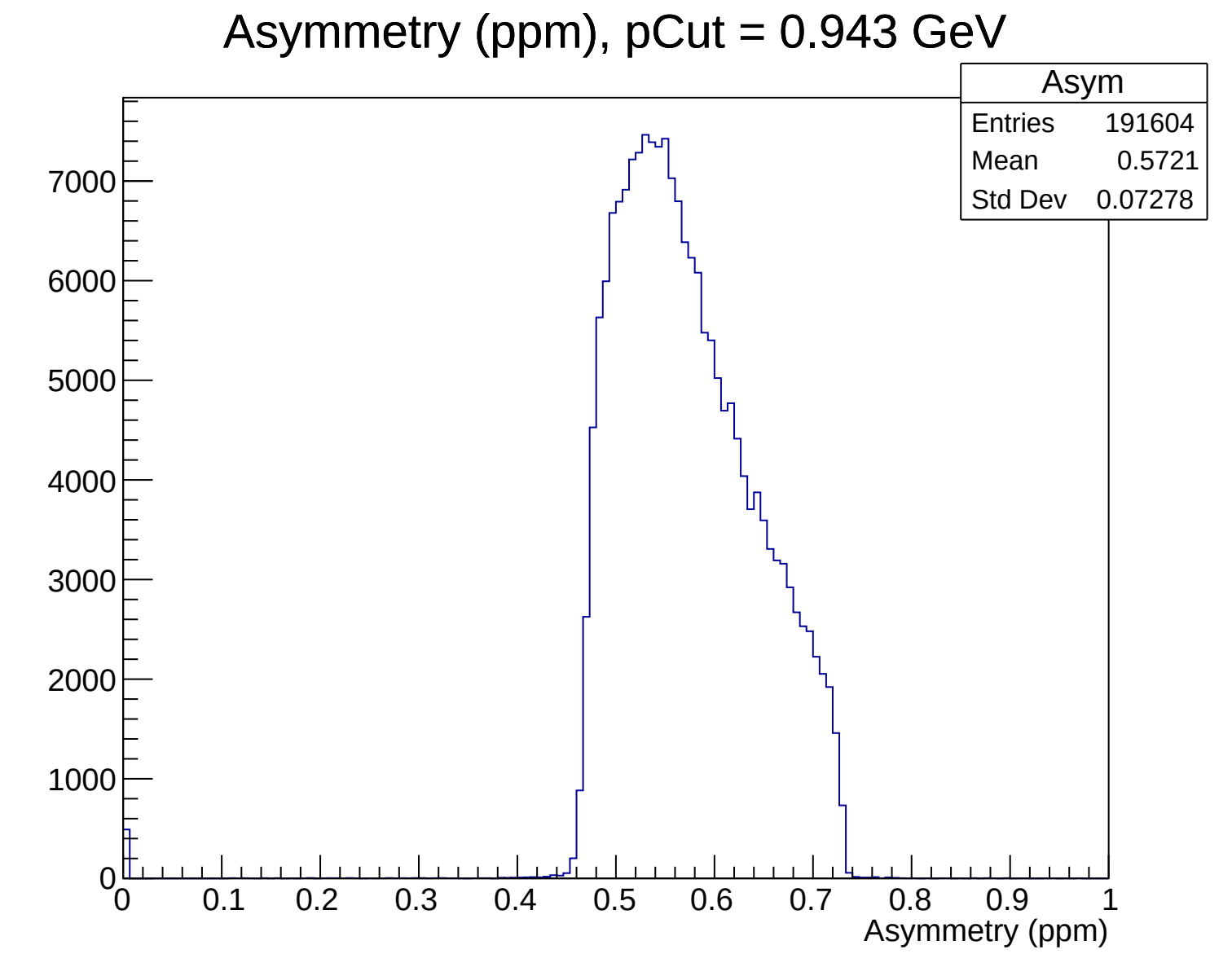

Stretched Asym. (ppm), pCut = 0.942 GeV
SAsym
Entries 199557
Mean 0.559
Std Dev 0.06892
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

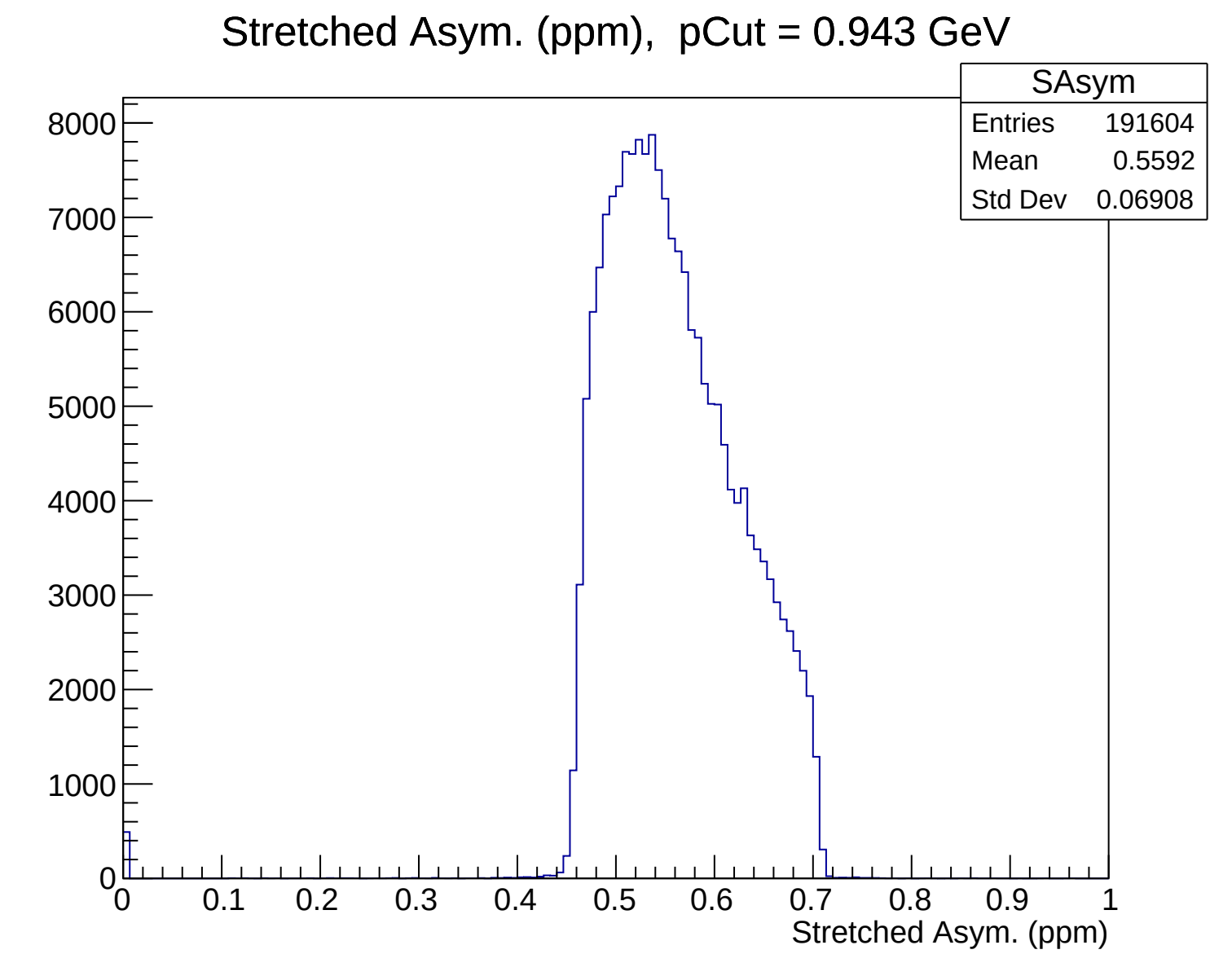

Q^2 (GeV/c)^2, pCut = 0.942 GeV
Q2
Entries 199557
Mean 0.006314
Std Dev 0.0012
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

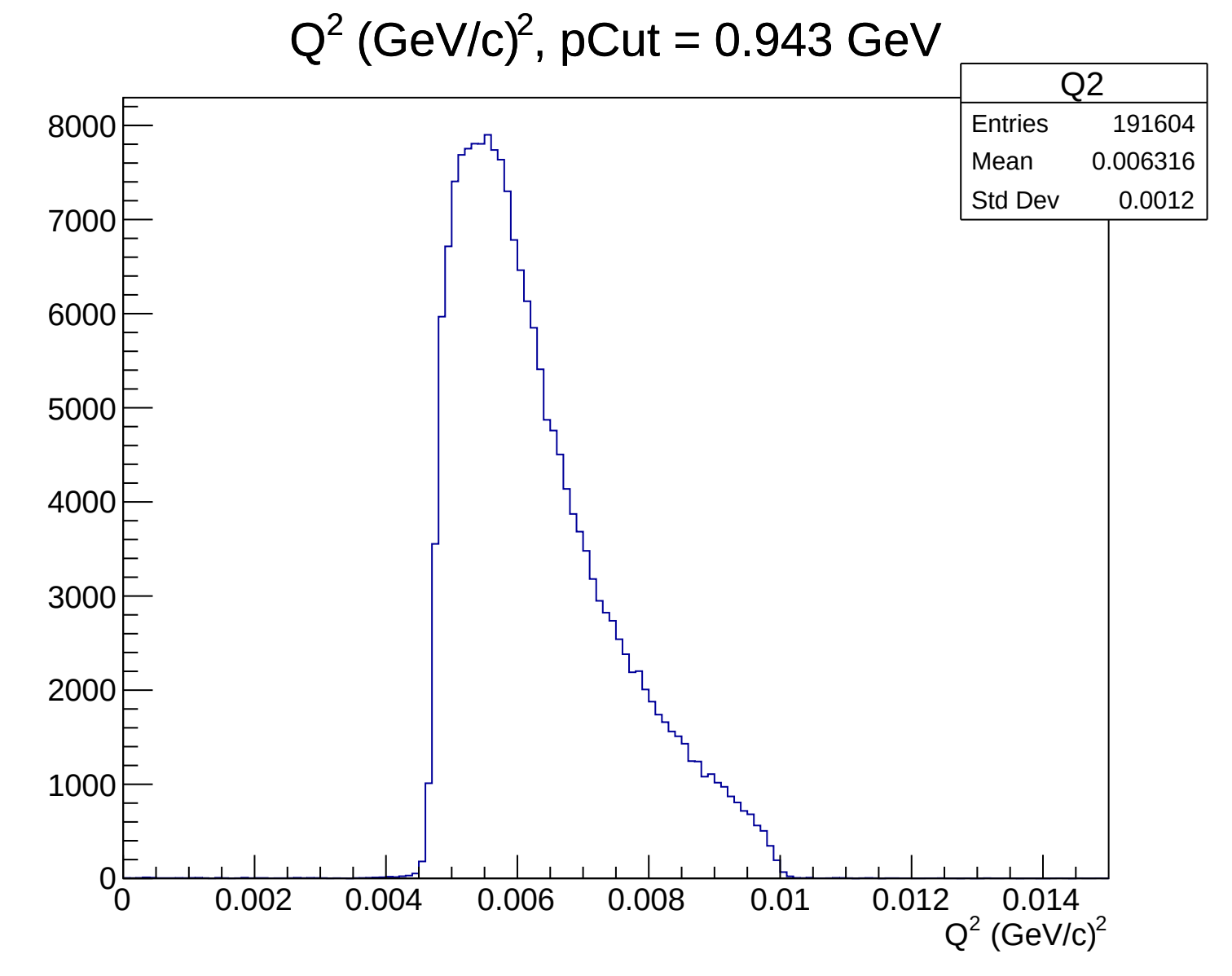

Sensitivity, pCut = 0.942 GeV
sens
Entries 199557
Mean 0.02222
Std Dev 0.003815
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

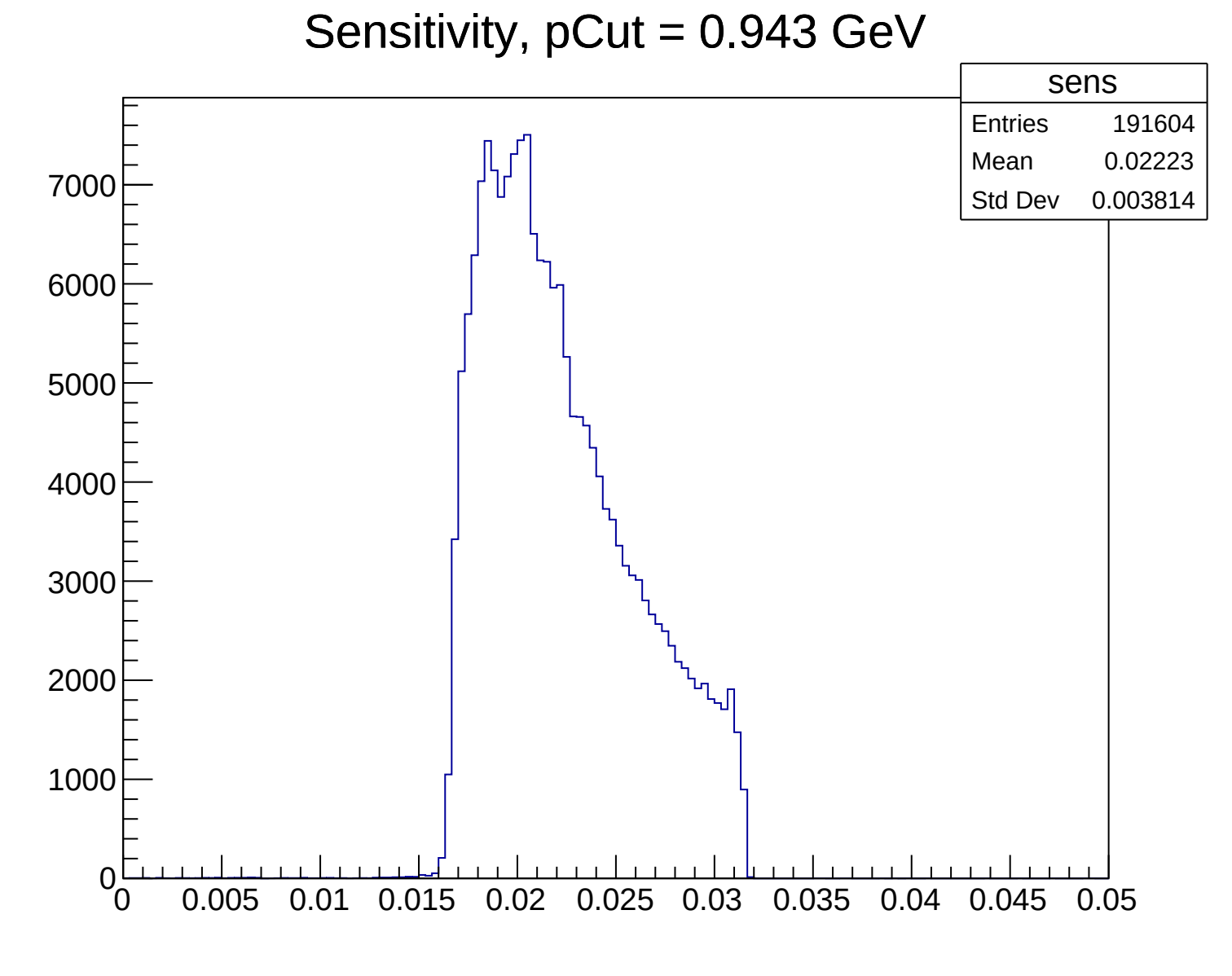

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9425 GeV
R.gold.p (GeV)

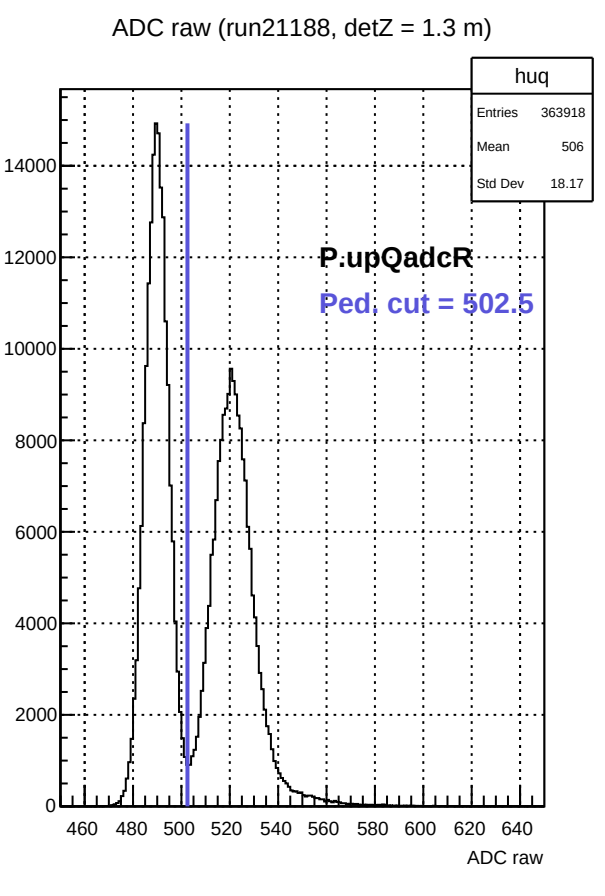

θlab (deg), pCut = 0.943 GeV
Theta
Entries 191604
Mean 4.783
Std Dev 0.4432
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

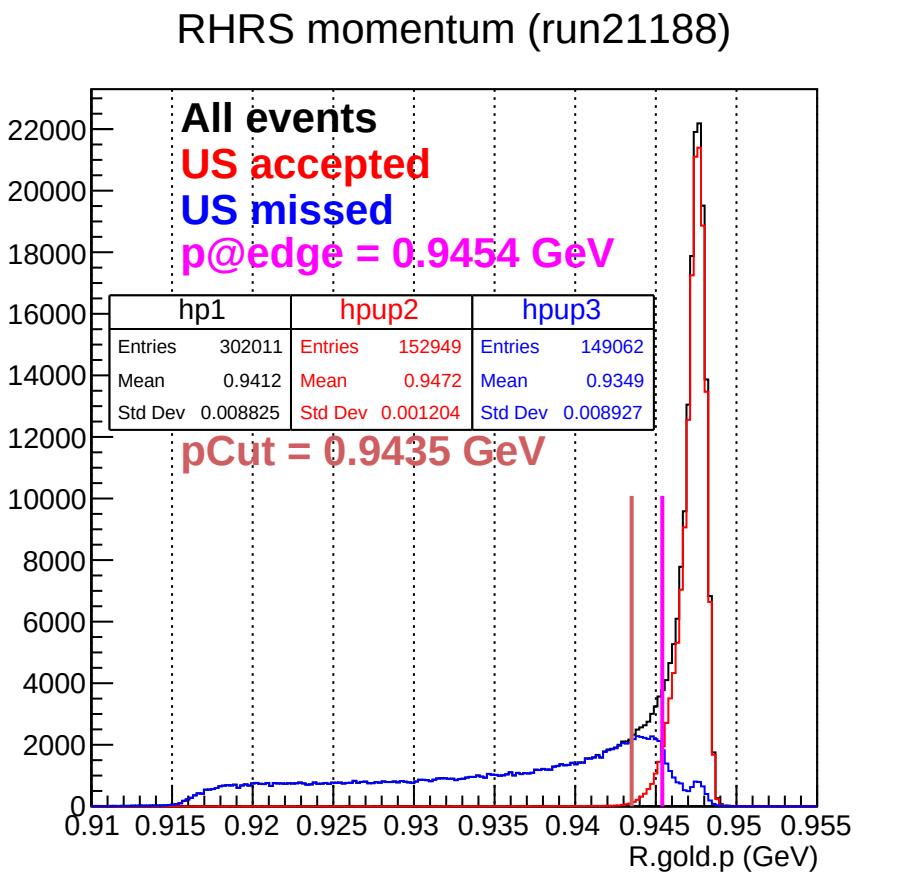

Asymmetry (ppm), pCut = 0.943 GeV
Asym
Entries 191604
Mean 0.5721
Std Dev 0.07278
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

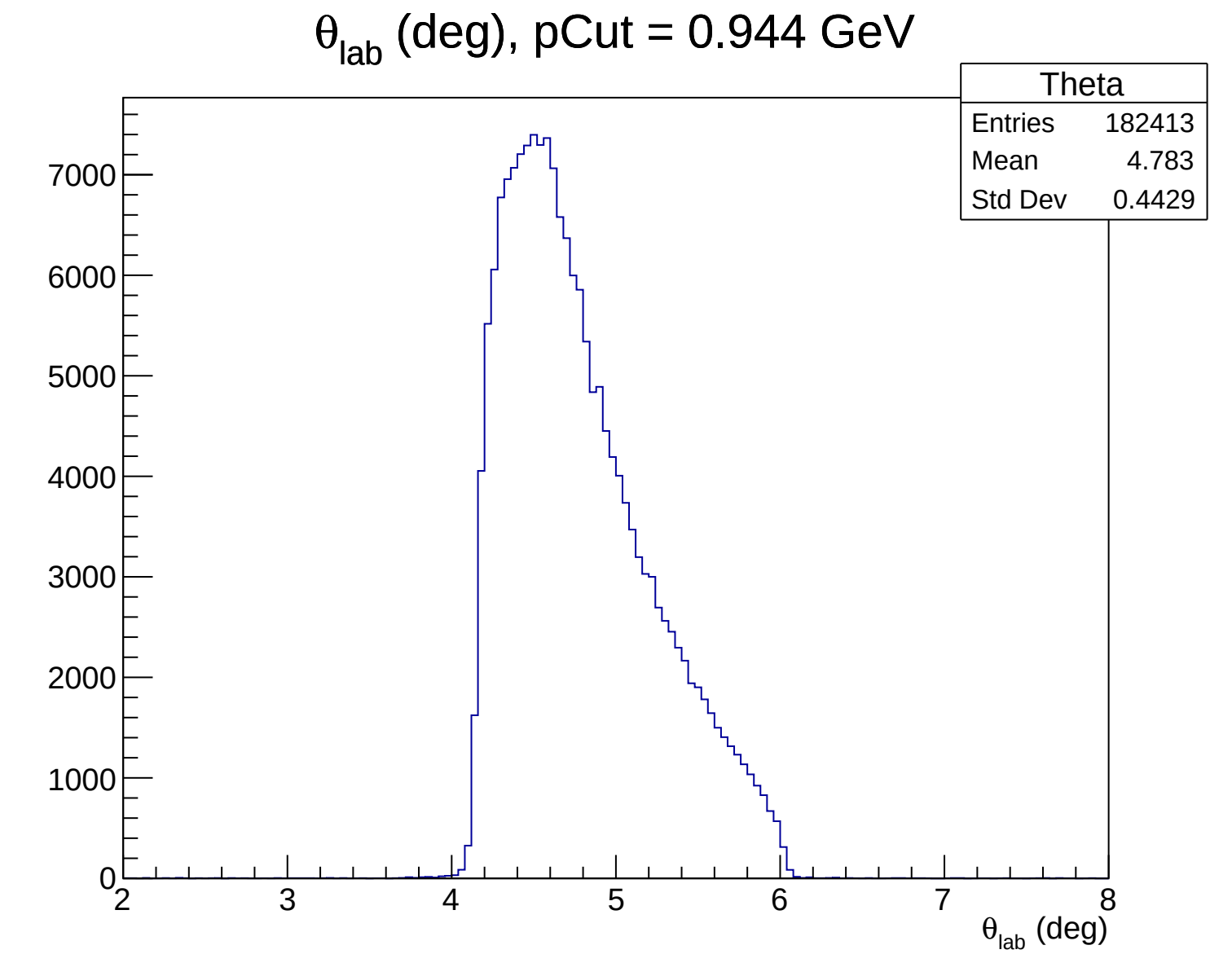

Stretched Asym. (ppm), pCut = 0.943 GeV
SAsym
Entries 191604
Mean 0.5592
Std Dev 0.06908
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

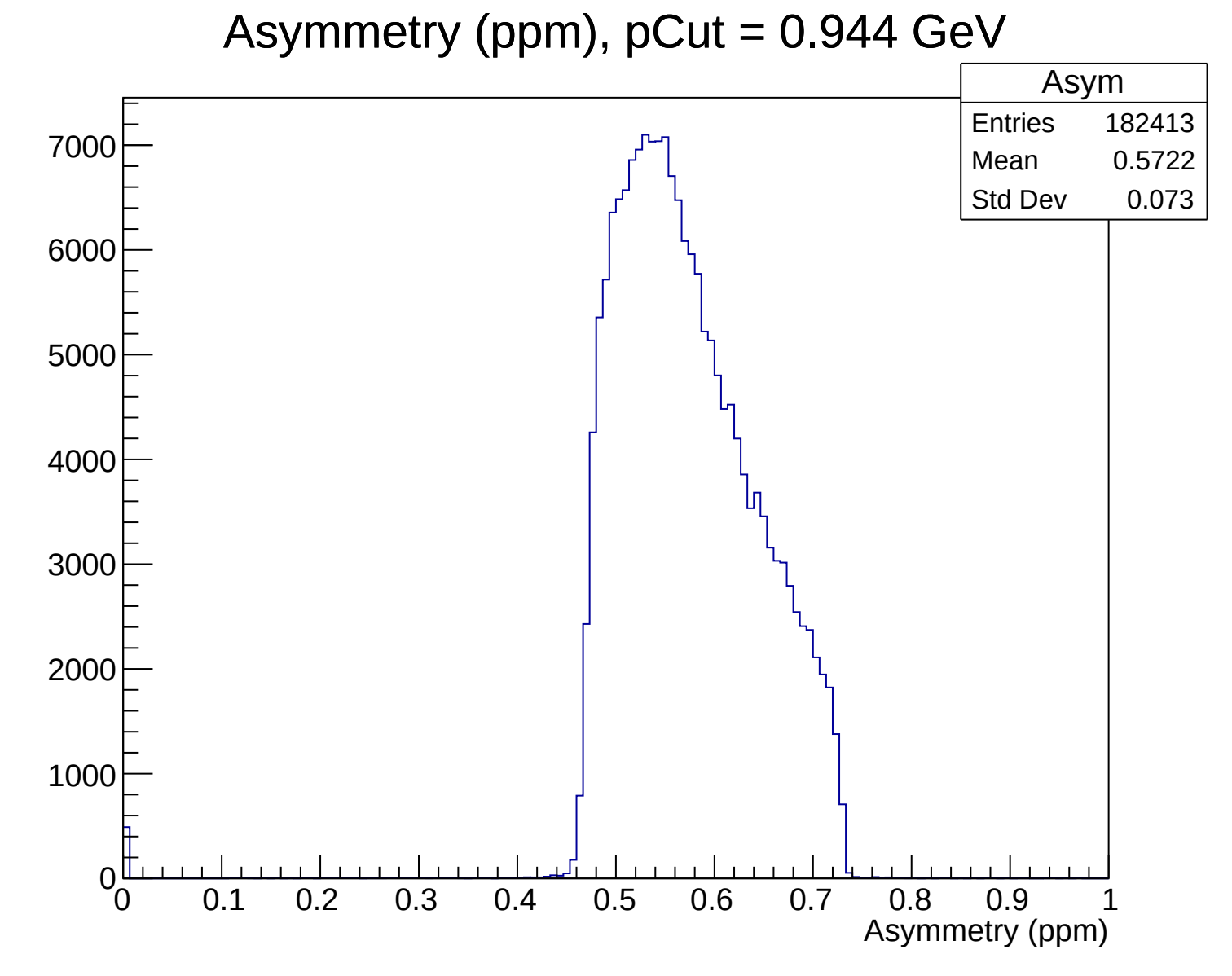

Q^2 (GeV/c)^2, pCut = 0.943 GeV
Q2
Entries 191604
Mean 0.006316
Std Dev 0.0012
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

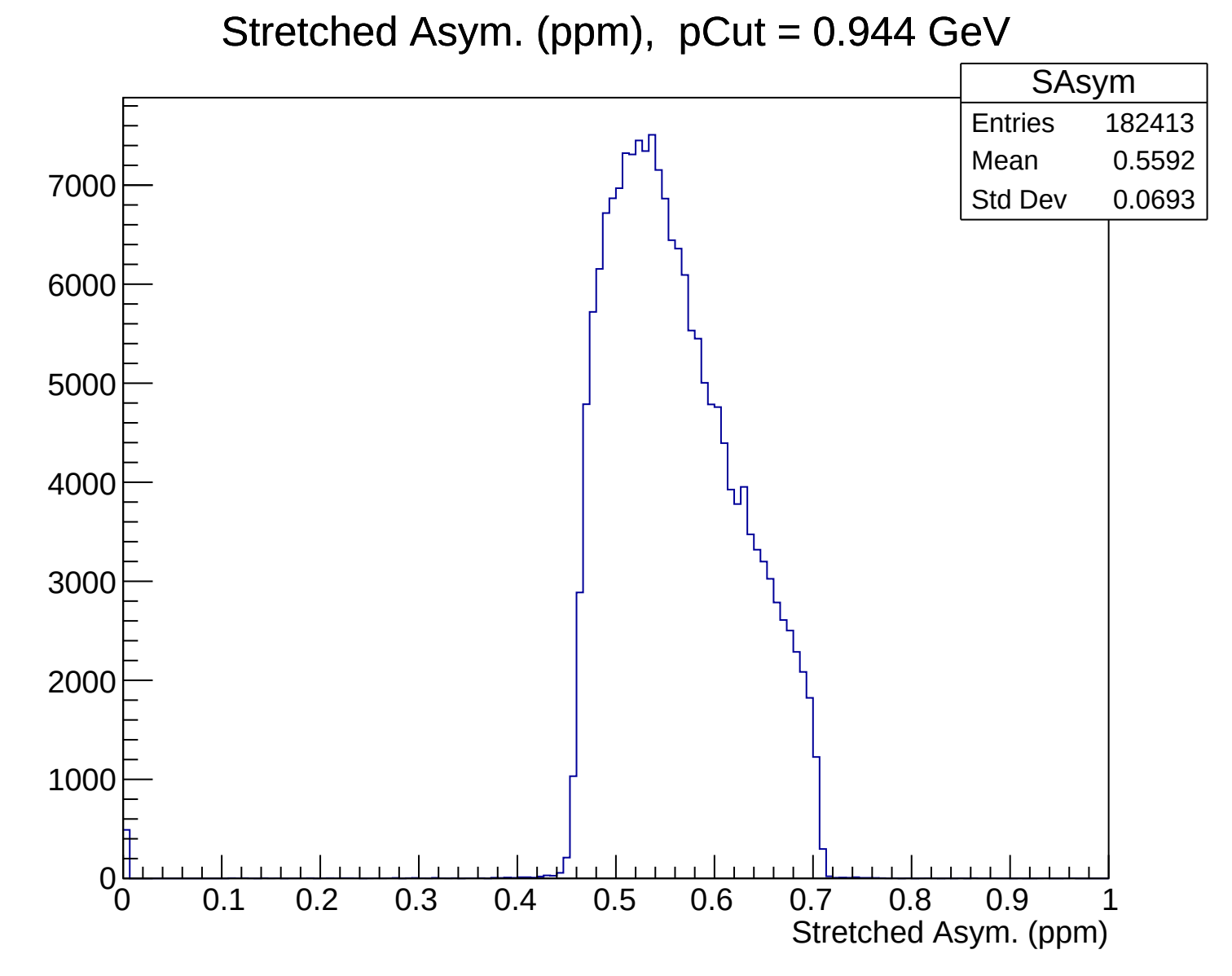

Sensitivity, pCut = 0.943 GeV
sens
Entries 191604
Mean 0.02223
Std Dev 0.003814
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

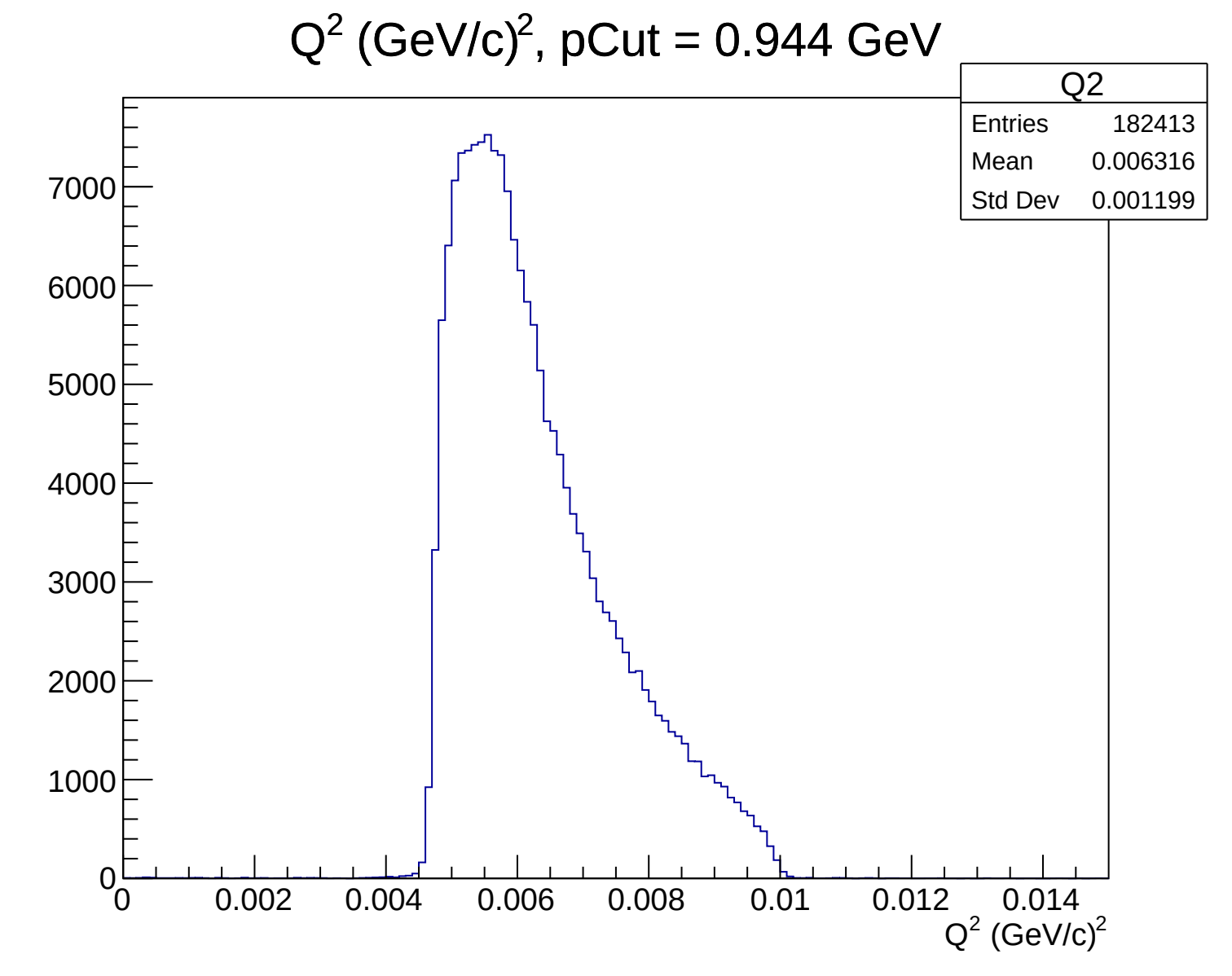

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

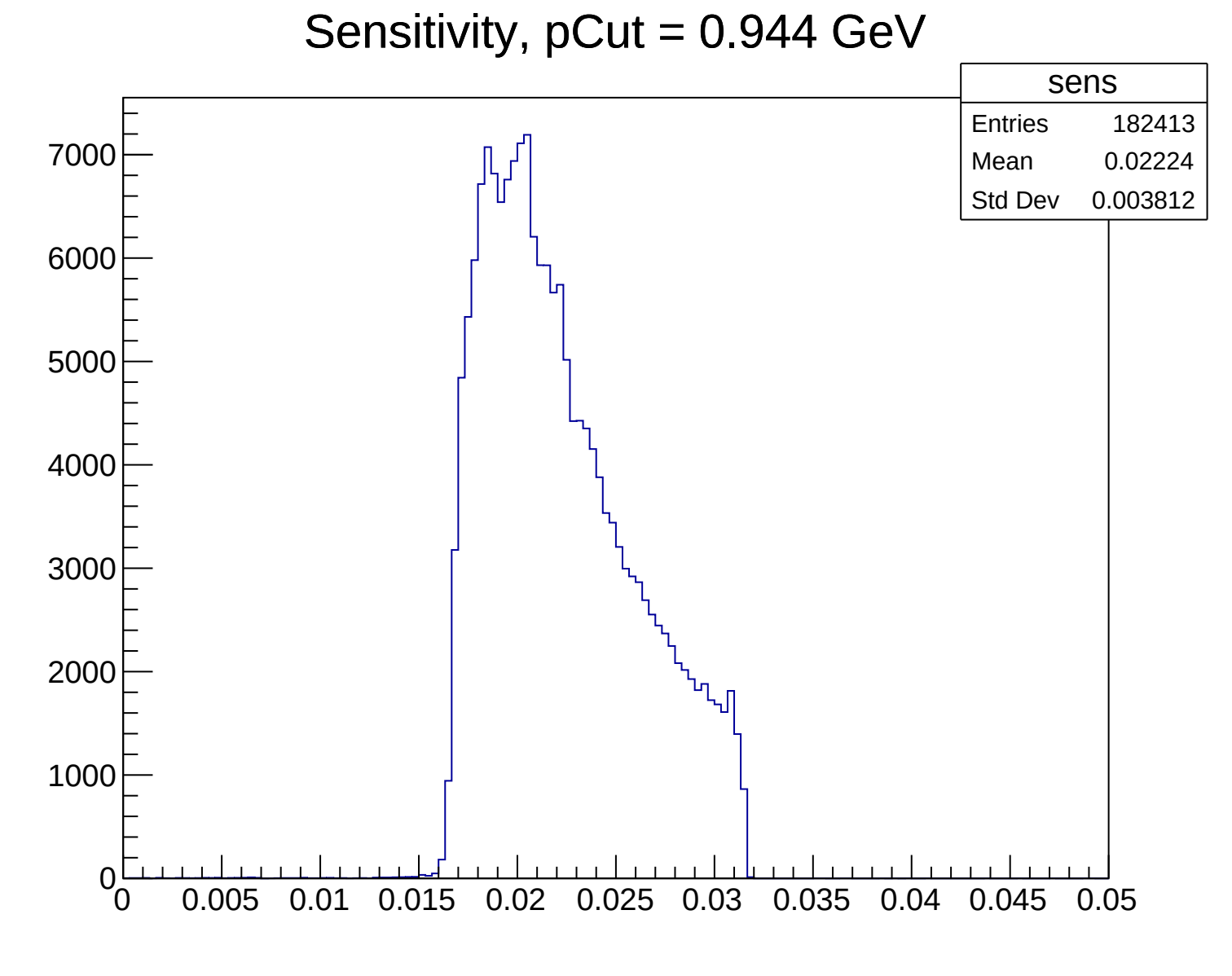

RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9435 GeV
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
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)

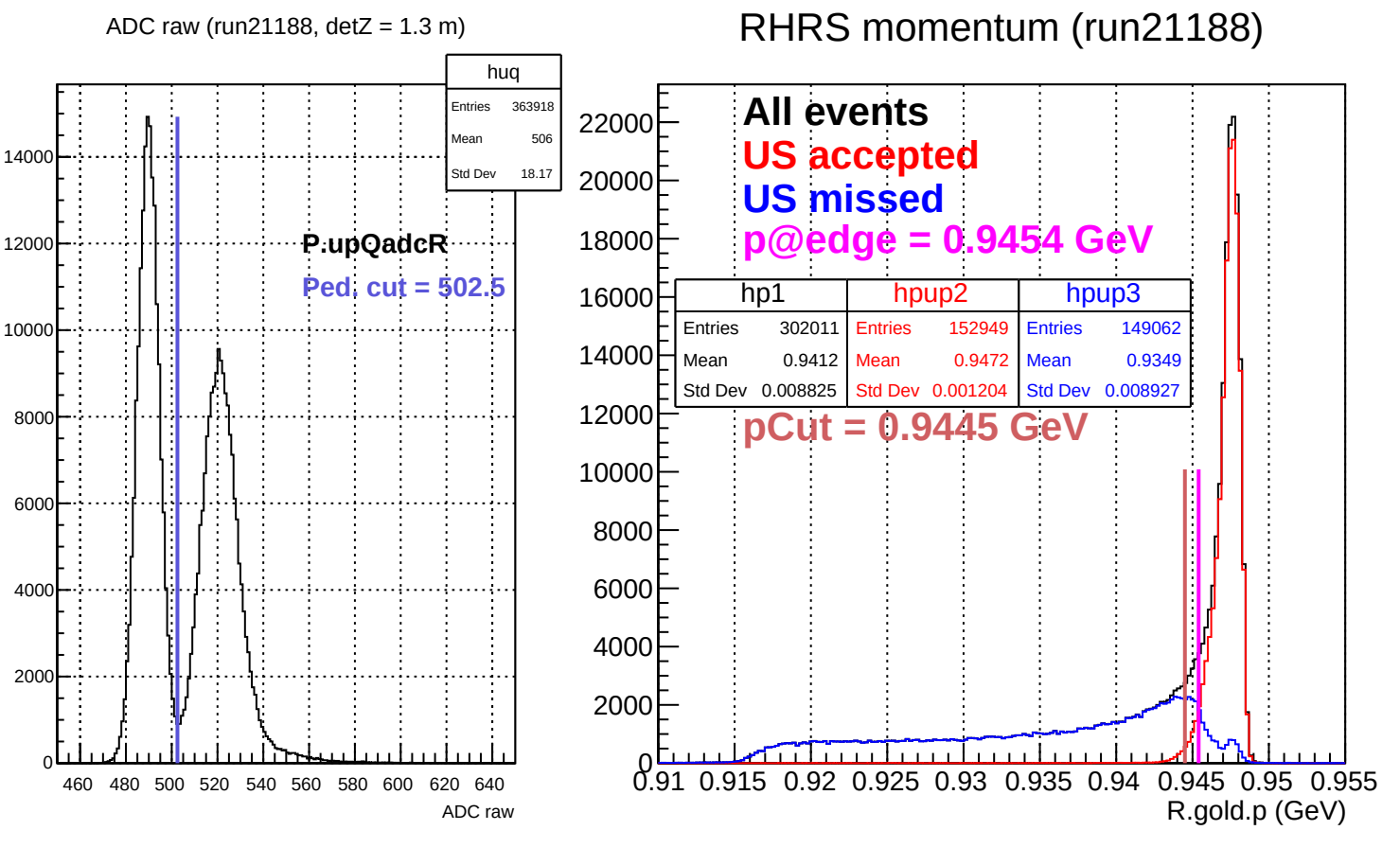

θlab (deg), pCut = 0.944 GeV
Theta
Entries 182413
Mean 4.783
Std Dev 0.4429
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

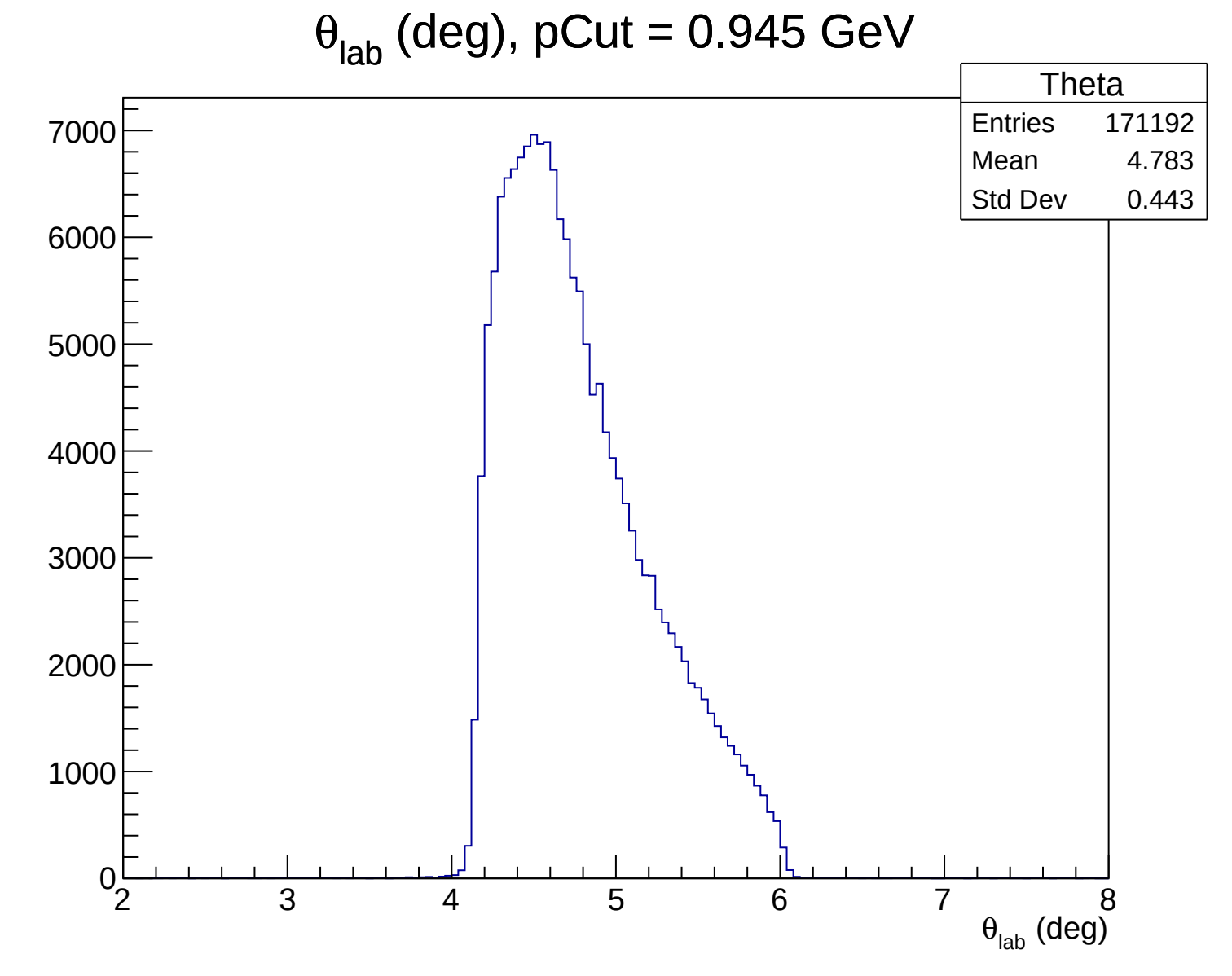

Asymmetry (ppm), pCut = 0.944 GeV
Asym
Entries 182413
Mean 0.5722
Std Dev 0.073
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

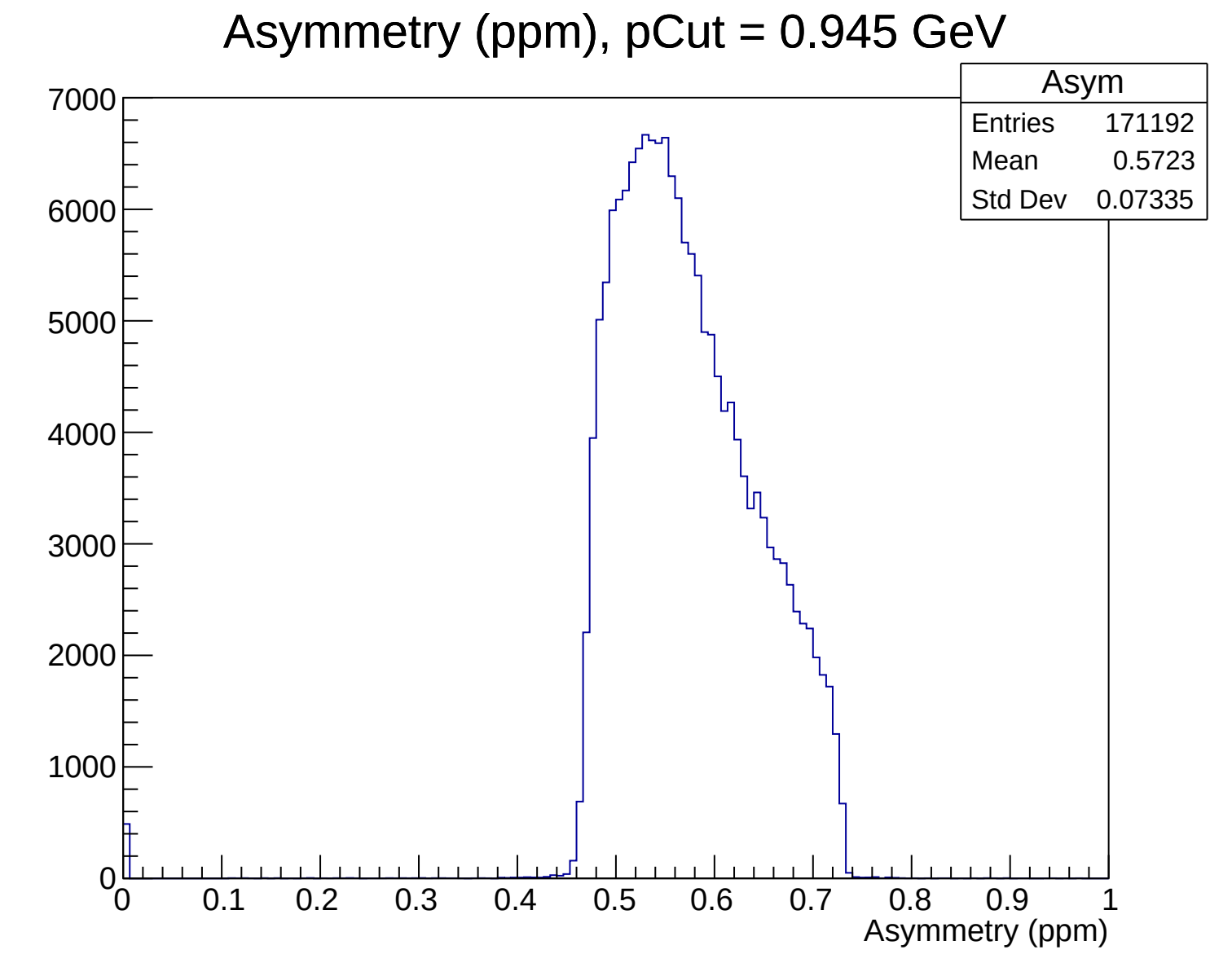

Stretched Asym. (ppm), pCut = 0.944 GeV
SAsym
Entries 182413
Mean 0.5592
Std Dev 0.0693
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

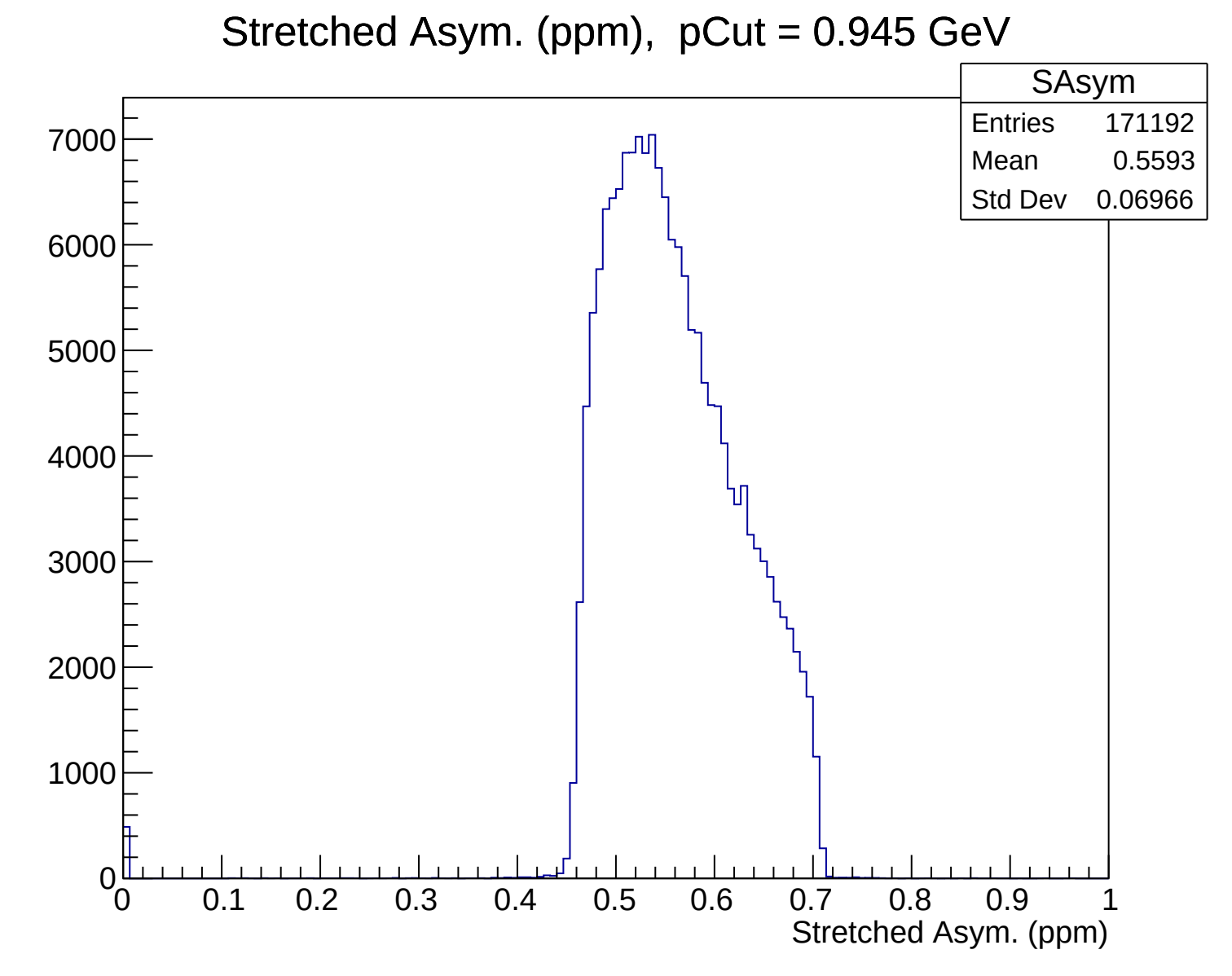

Q^2 (GeV/c)^2, pCut = 0.944 GeV
Q2
Entries 182413
Mean 0.006316
Std Dev 0.001199
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

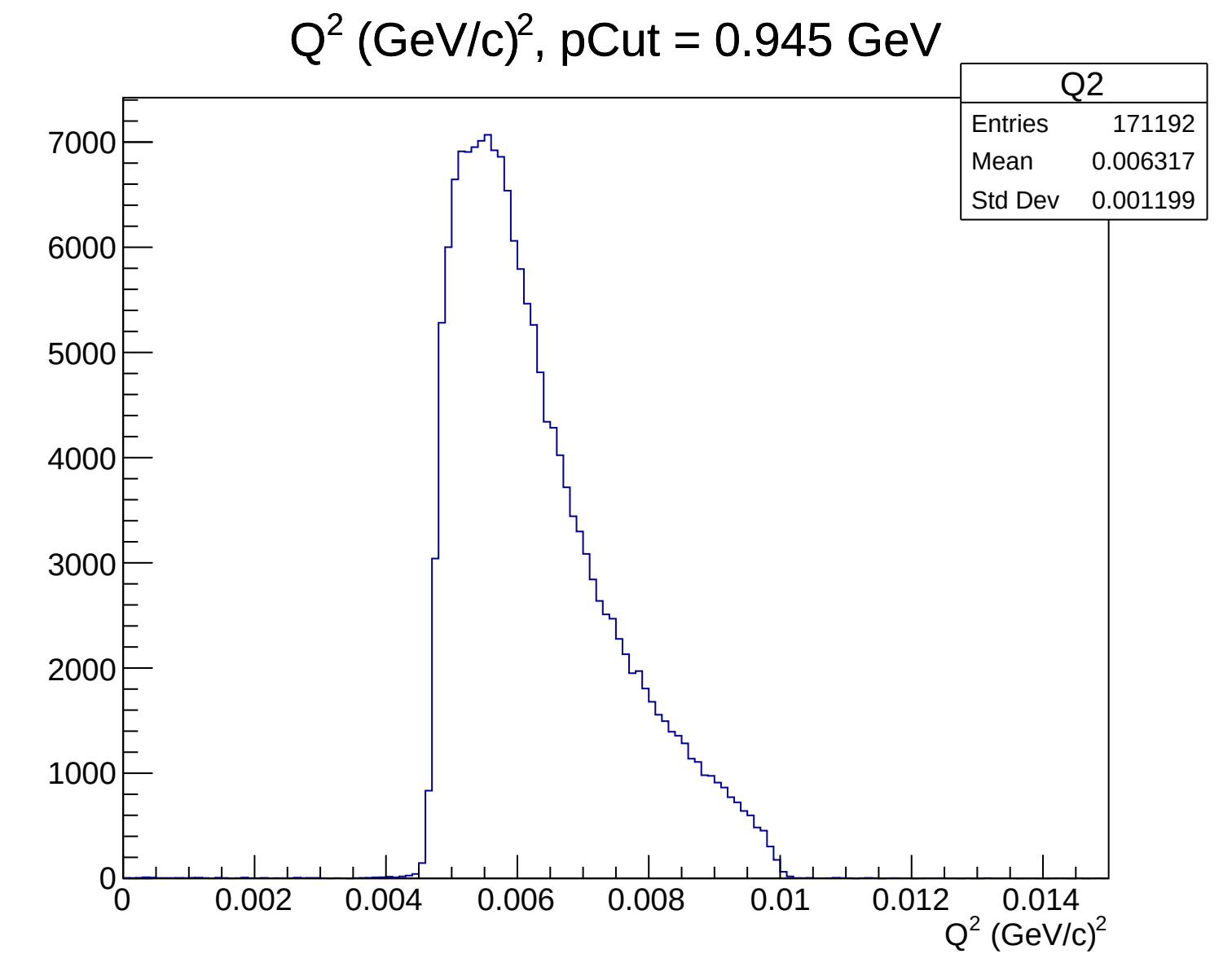

Sensitivity, pCut = 0.944 GeV
sens
Entries 182413
Mean 0.02224
Std Dev 0.003812
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

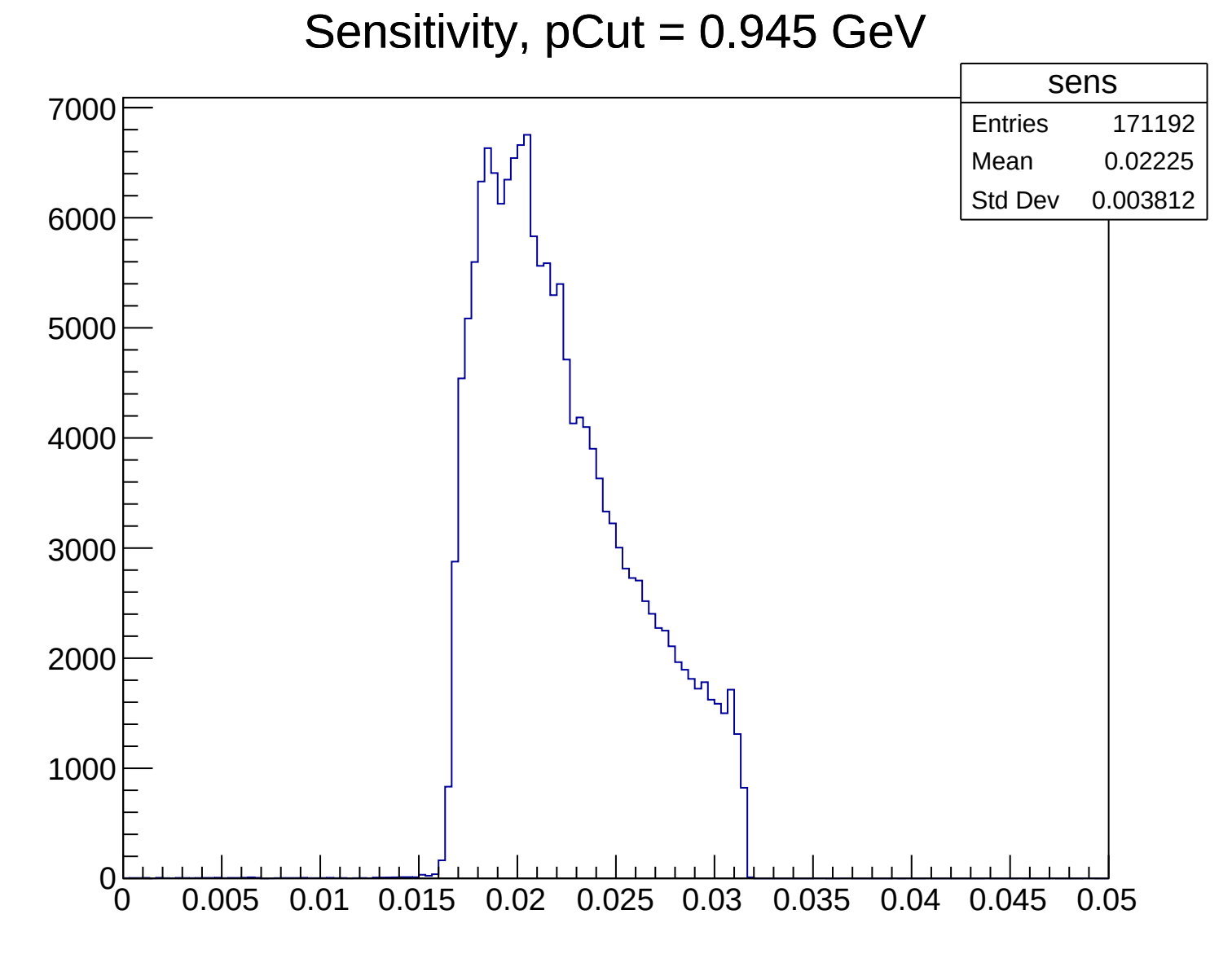

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9445 GeV
R.gold.p (GeV)

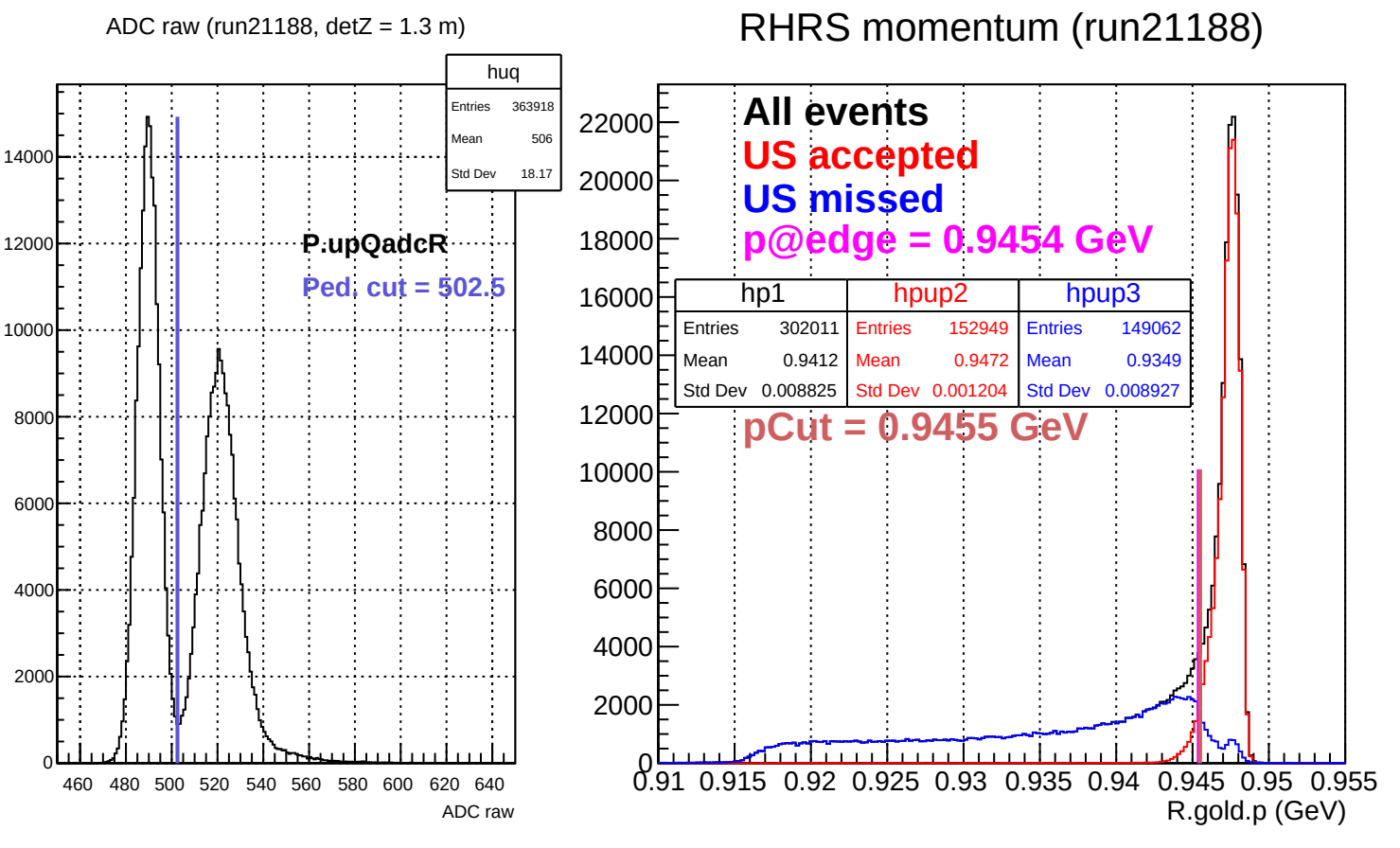

θlab (deg), pCut = 0.945 GeV
Theta
Entries 171192
Mean 4.783
Std Dev 0.443
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

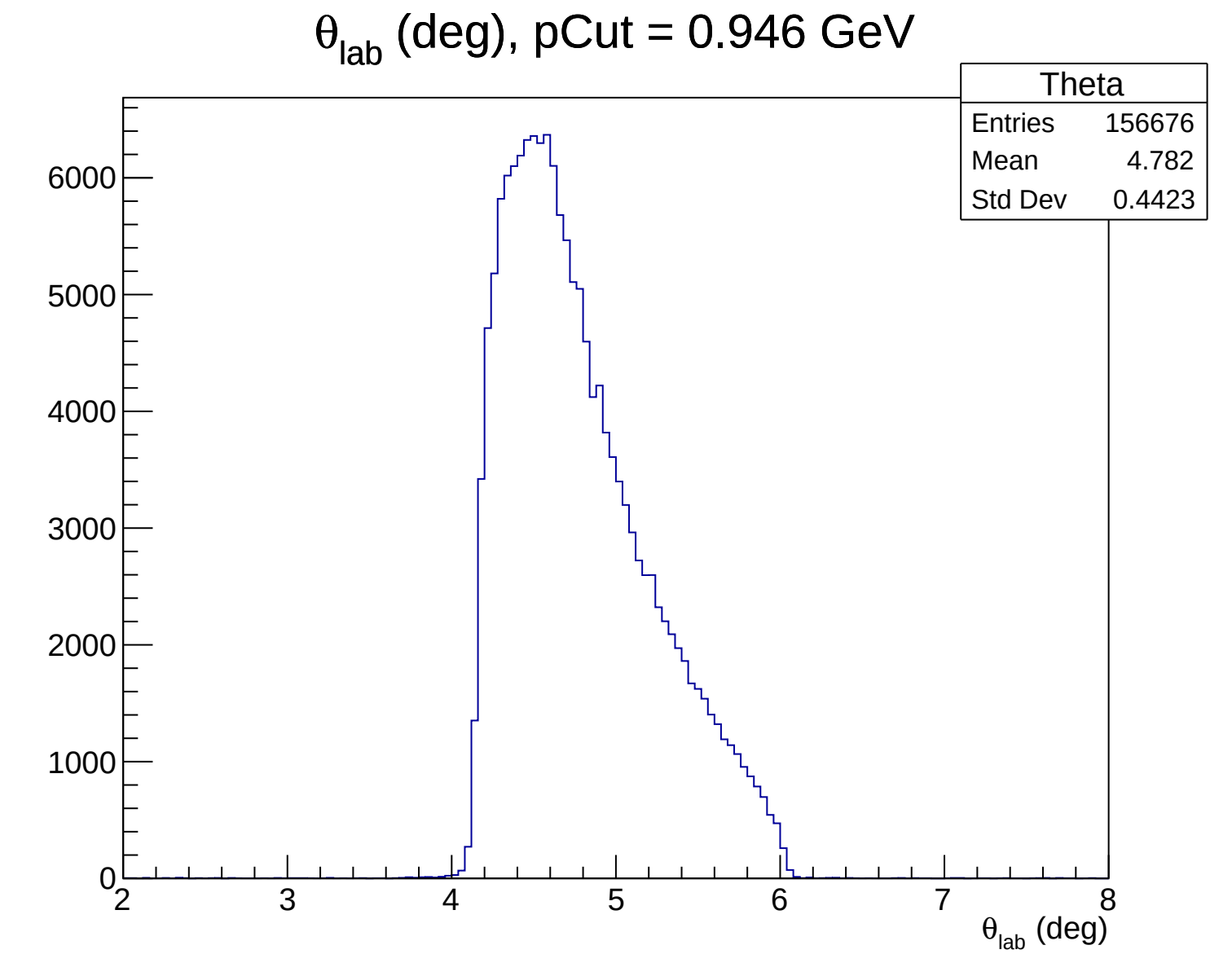

Asymmetry (ppm), pCut = 0.945 GeV
Asym
Entries 171192
Mean 0.5723
Std Dev 0.07335
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

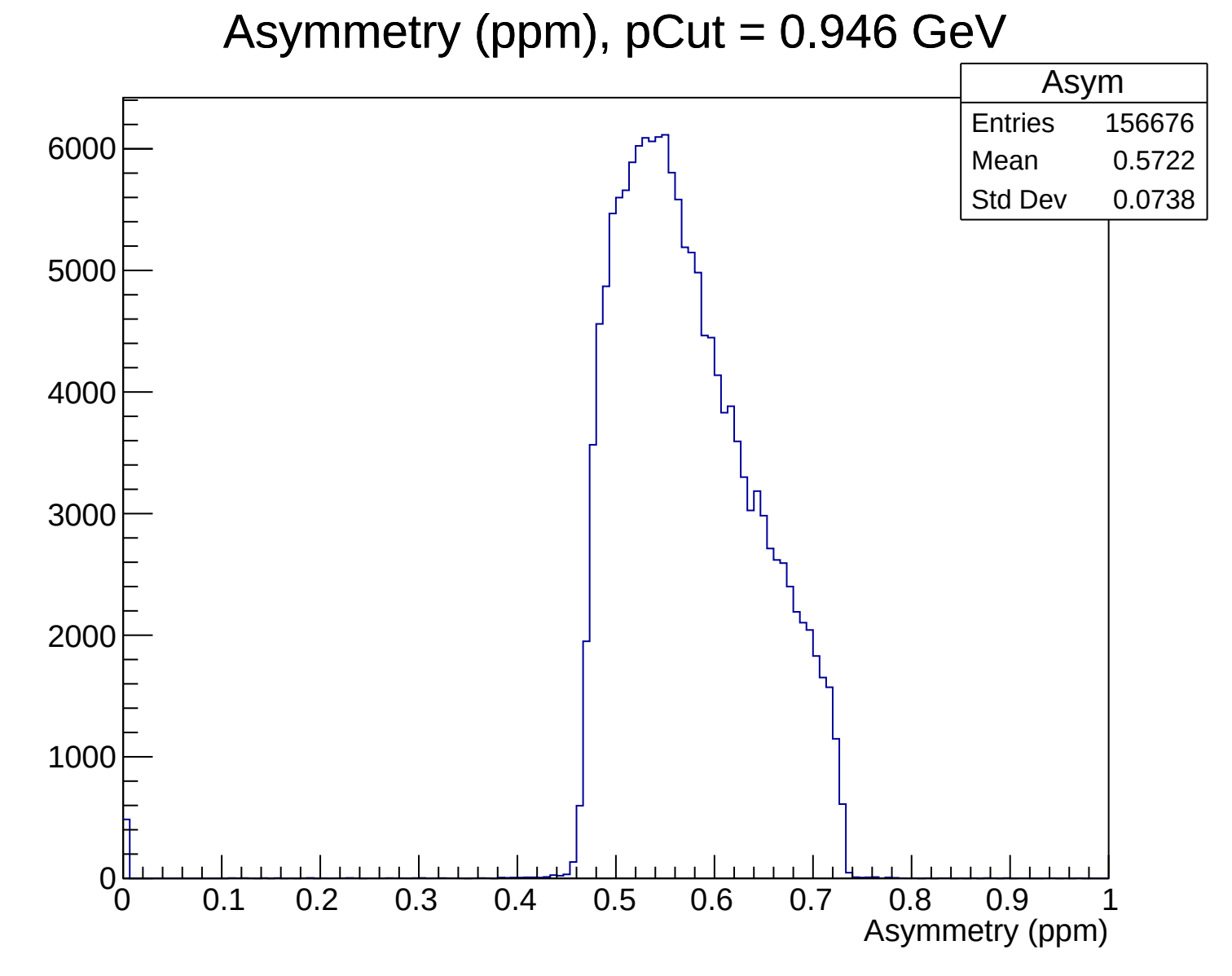

Stretched Asym. (ppm), pCut = 0.945 GeV
SAsym
Entries 171192
Mean 0.5593
Std Dev 0.06966
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

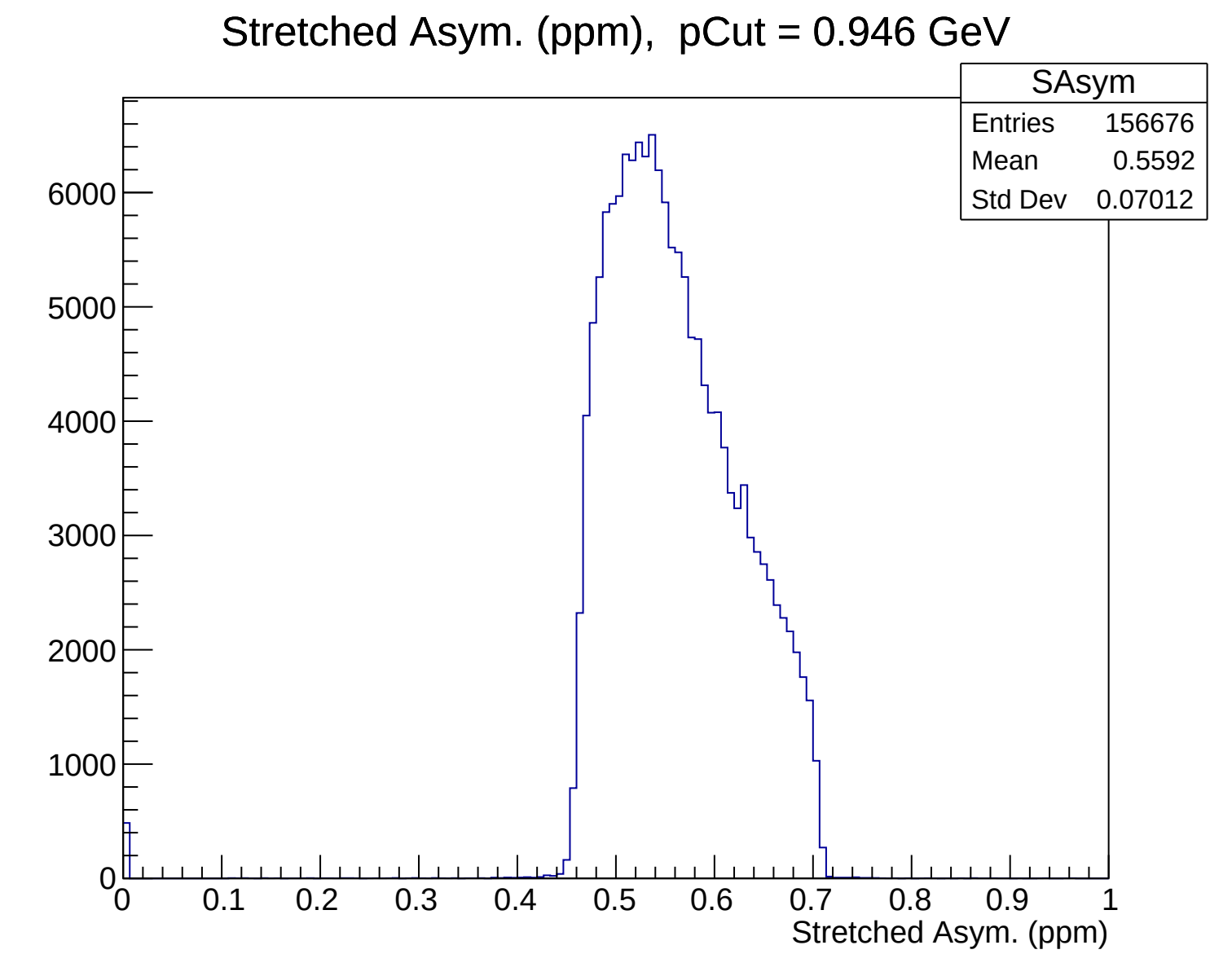

Q^2 (GeV/c)^2, pCut = 0.945 GeV
Q2
Entries 171192
Mean 0.006317
Std Dev 0.001199
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

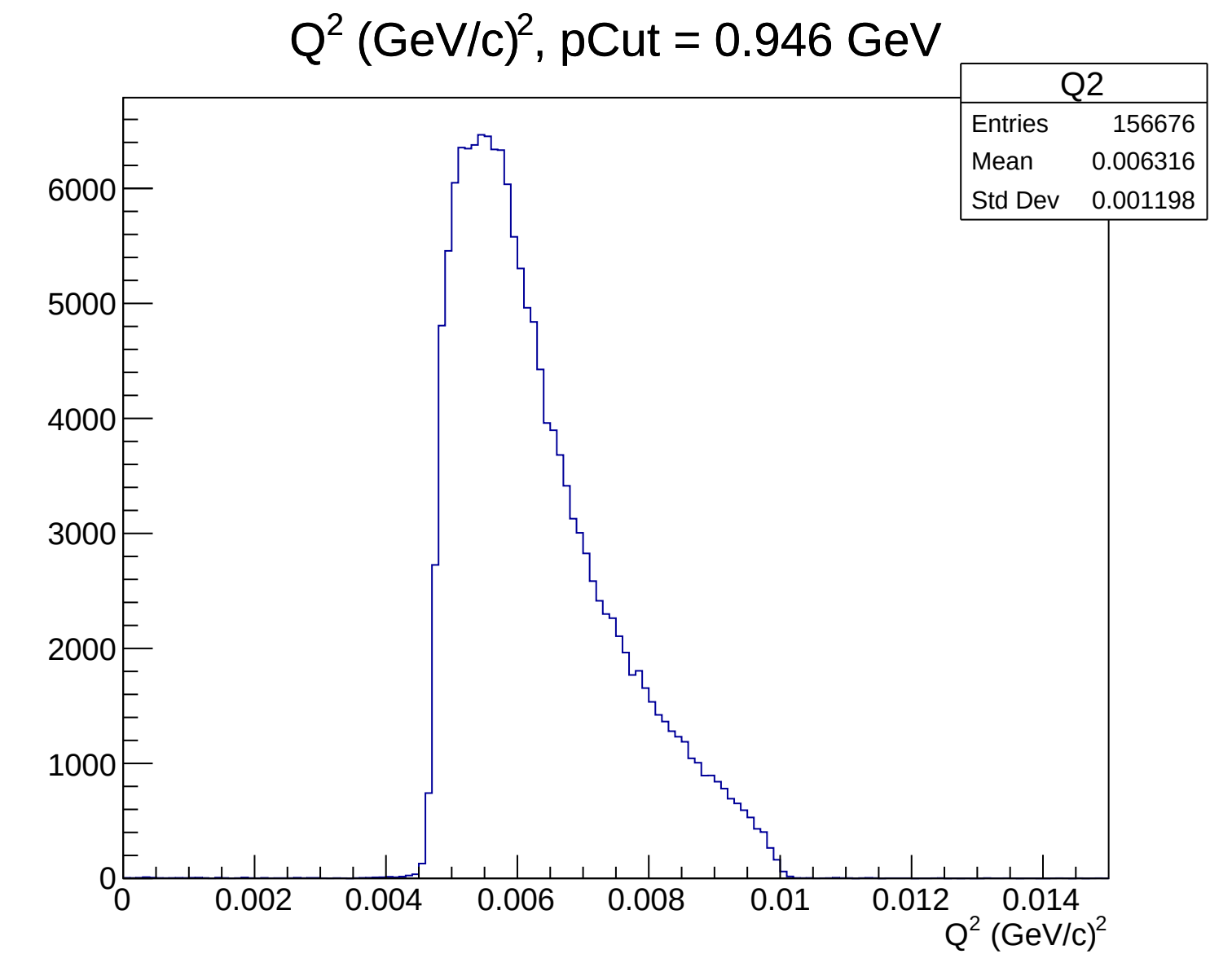

Sensitivity, pCut = 0.945 GeV
sens
Entries 171192
Mean 0.02225
Std Dev 0.003812
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

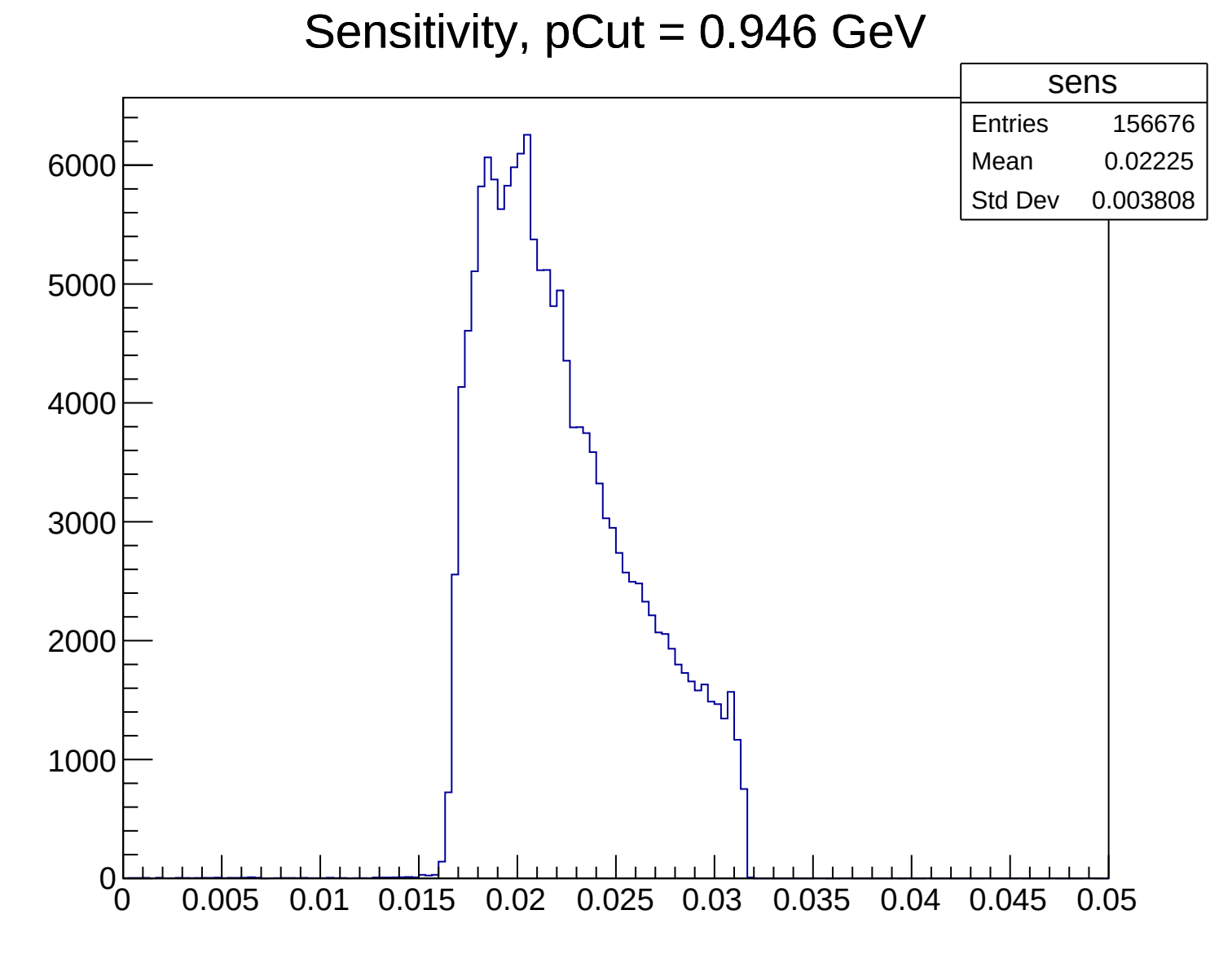

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9455 GeV
R.gold.p (GeV)

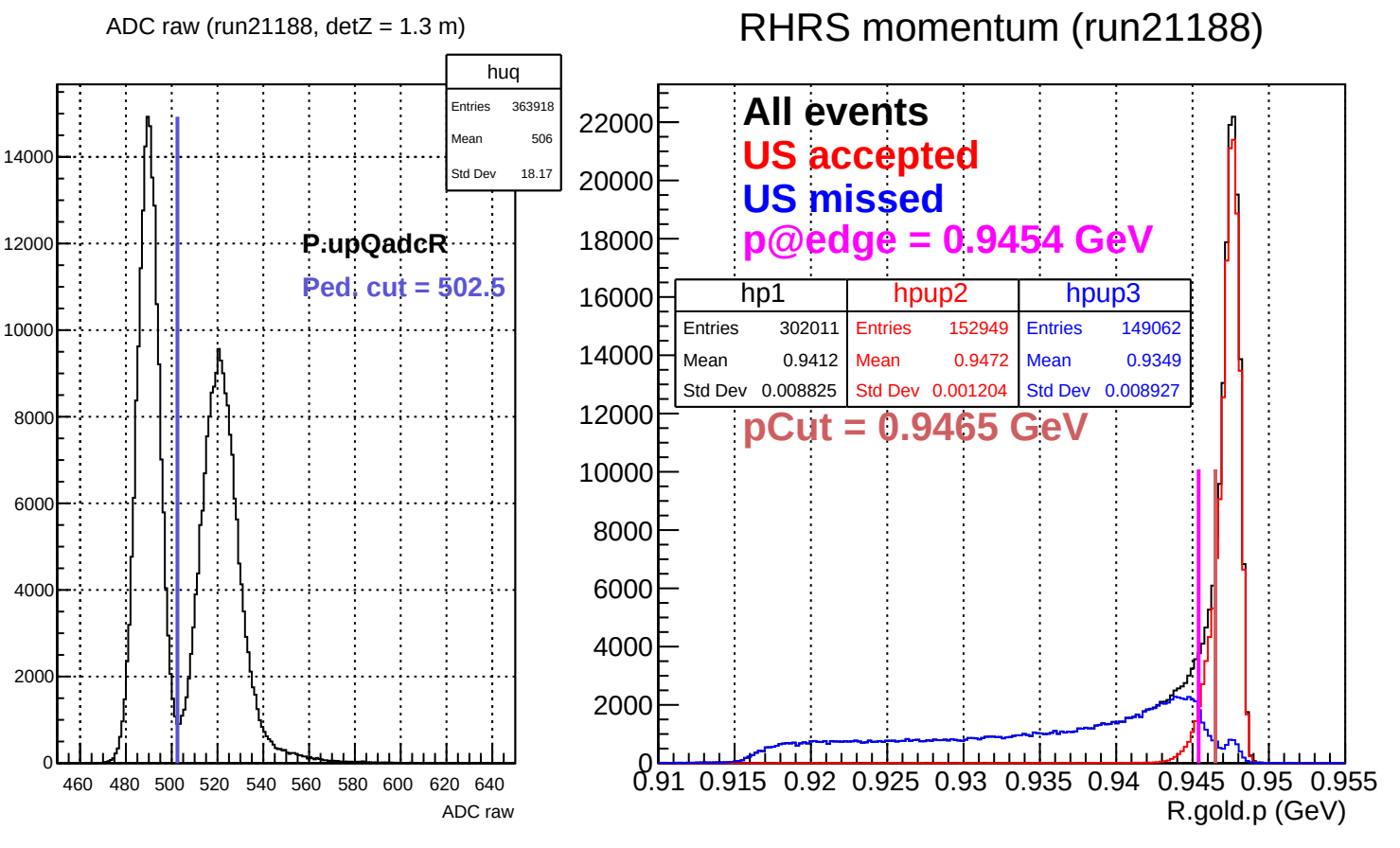

θlab (deg), pCut = 0.946 GeV
Theta
Entries 156676
Mean 4.782
Std Dev 0.4423
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

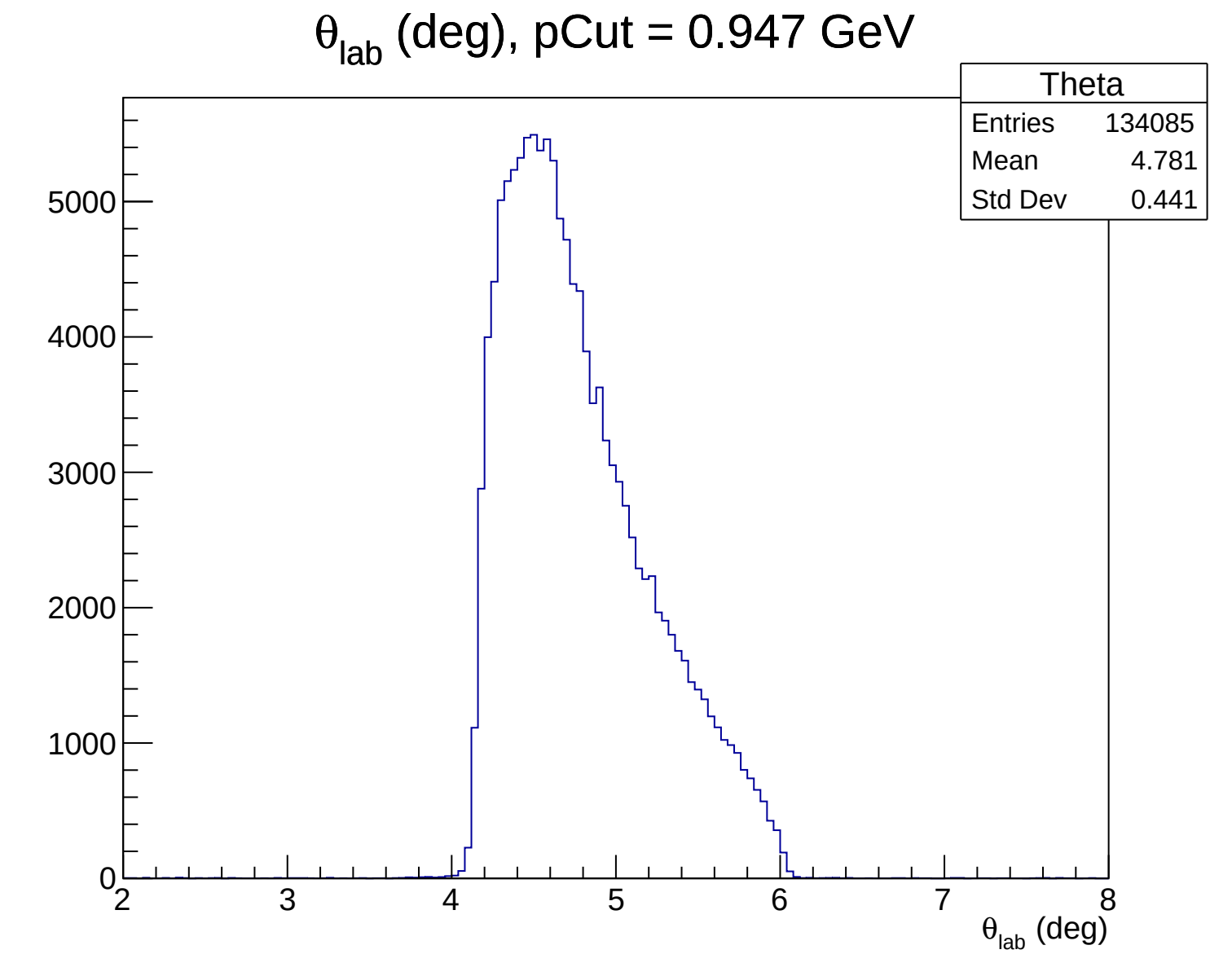

Asymmetry (ppm), pCut = 0.946 GeV
Asym
Entries 156676
Mean 0.5722
Std Dev 0.0738
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

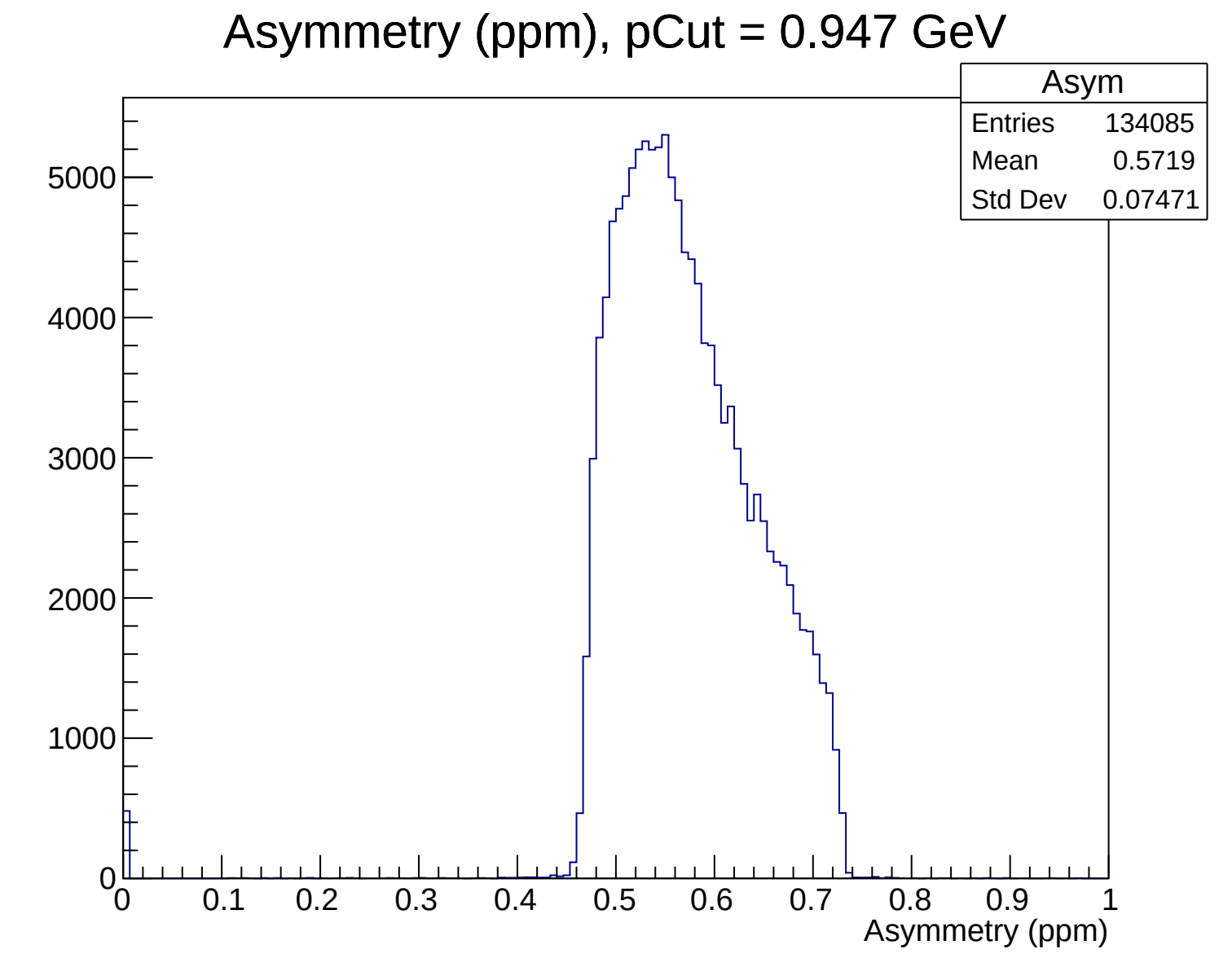

Stretched Asym. (ppm), pCut = 0.946 GeV
SAsym
Entries 156676
Mean 0.5592
Std Dev 0.07012
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

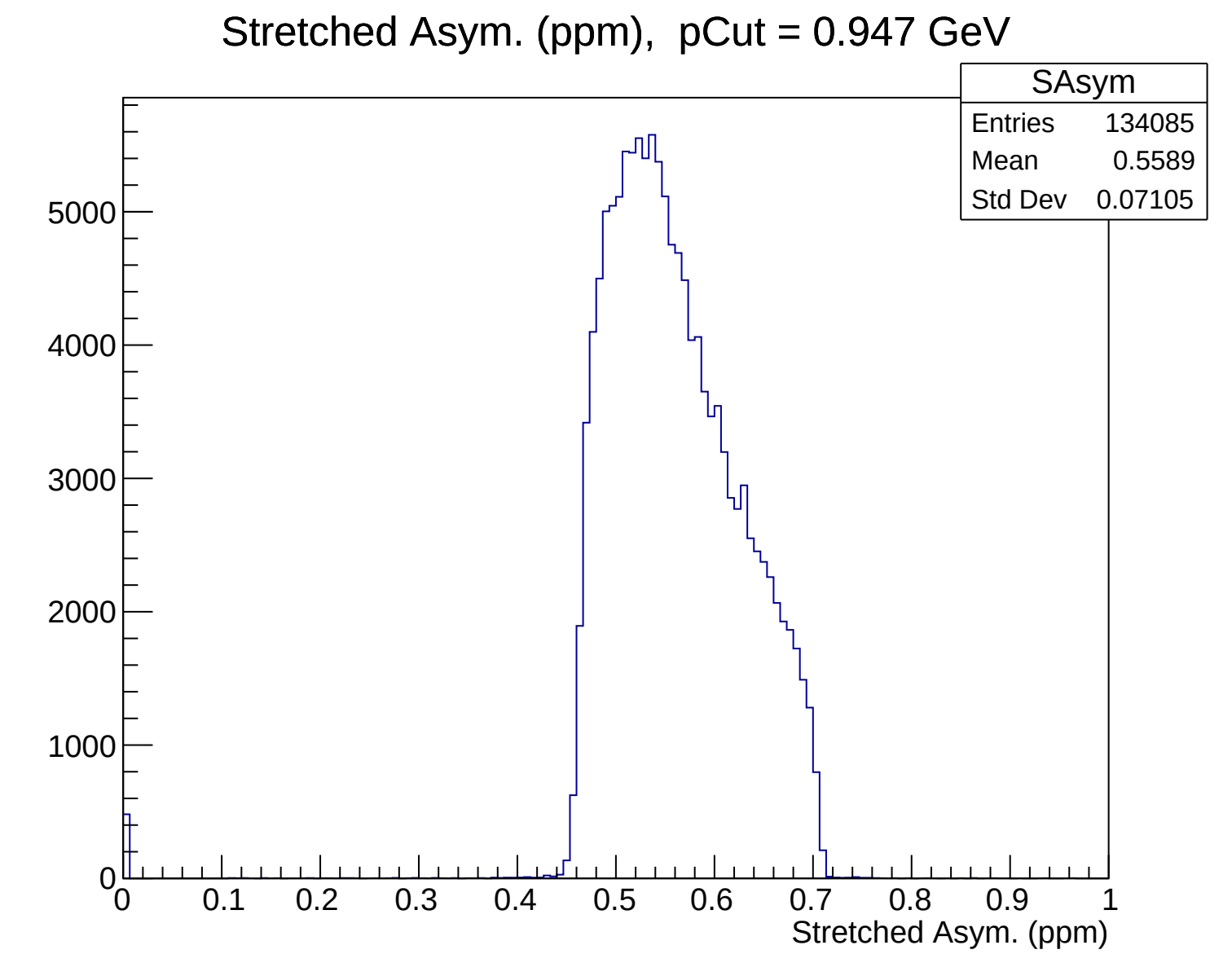

Q^2 (GeV/c)^2, pCut = 0.946 GeV
Q2
Entries 156676
Mean 0.006316
Std Dev 0.001198
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

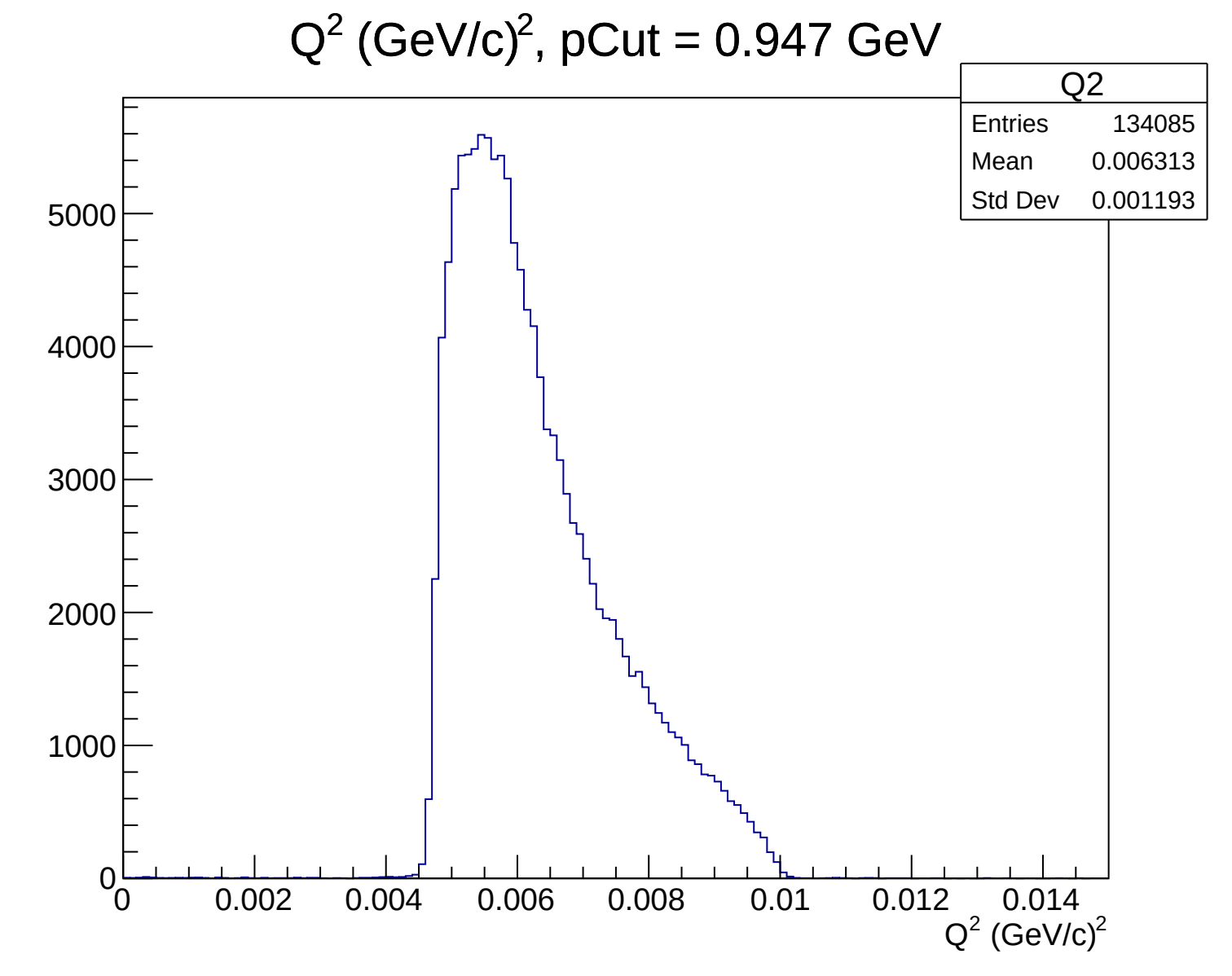

Sensitivity, pCut = 0.946 GeV
sens
Entries 156676
Mean 0.02225
Std Dev 0.003808
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

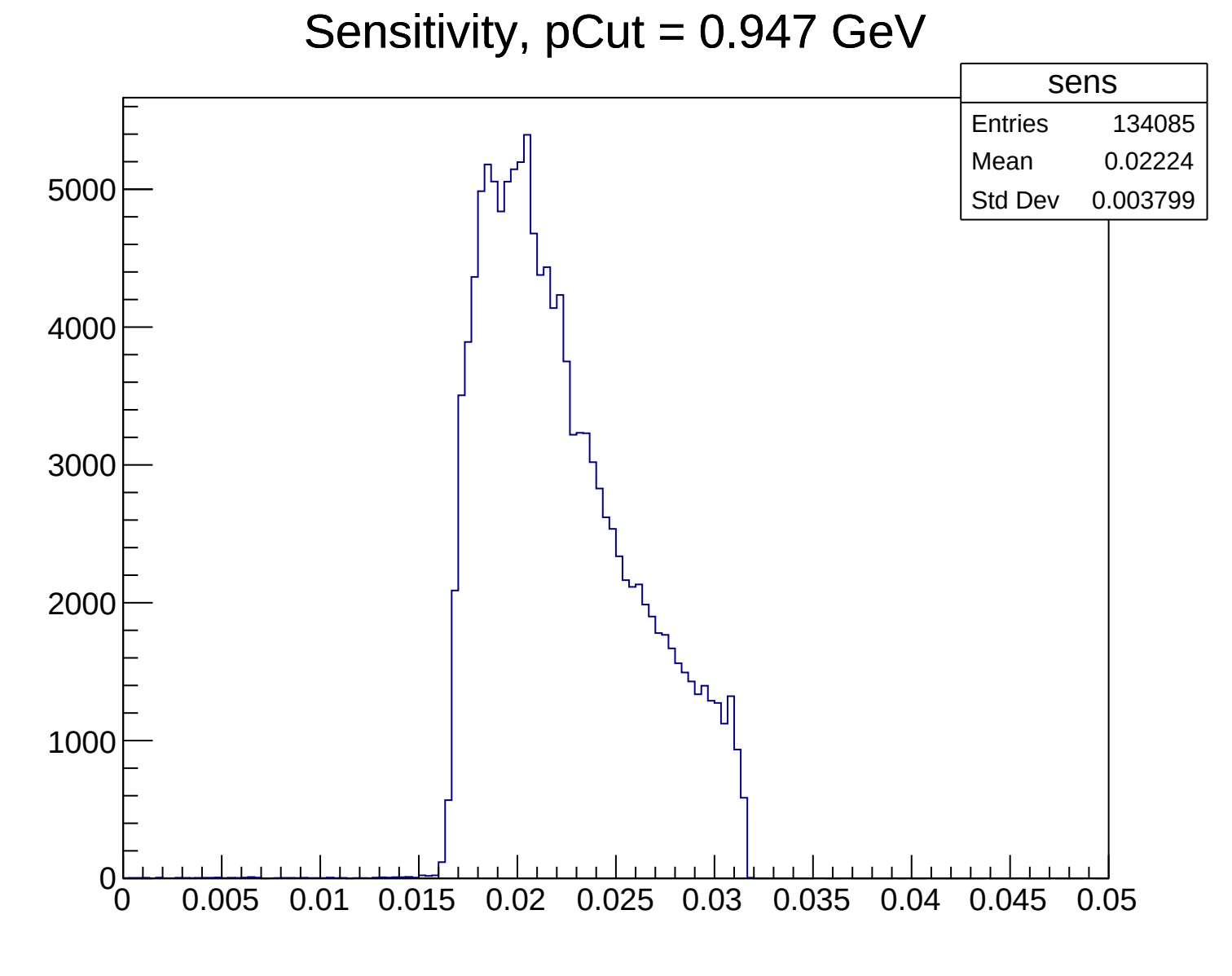

ADC raw (run21188, detZ = 1.3 m)
huq
Entries 363918
Mean 506
Std Dev 18.17
P.upQadcR
Ped. cut = 502.5
ADC raw
RHRS momentum (run21188)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 302011
Mean 0.9412
Std Dev 0.008825
hpup2
Entries 152949
Mean 0.9472
Std Dev 0.001204
hpup3
Entries 149062
Mean 0.9349
Std Dev 0.008927
pCut = 0.9465 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.947 GeV
Theta
Entries 134085
Mean 4.781
Std Dev 0.441
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), pCut = 0.947 GeV
Asym
Entries 134085
Mean 0.5719
Std Dev 0.07471
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 = 0.947 GeV
SAsym
Entries 134085
Mean 0.5589
Std Dev 0.07105
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 134085
Mean 0.006313
Std Dev 0.001193
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 134085
Mean 0.02224
Std Dev 0.003799
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