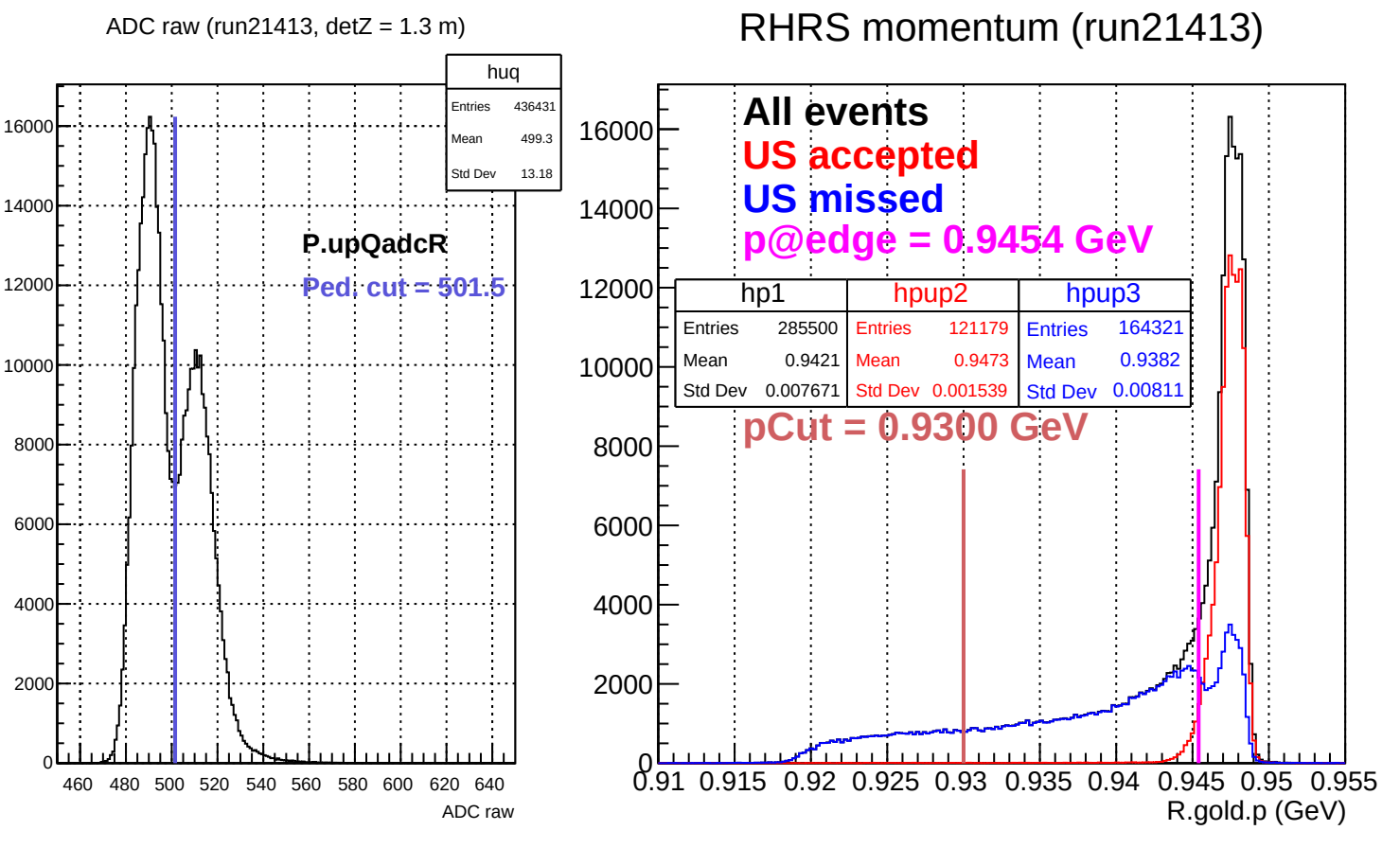
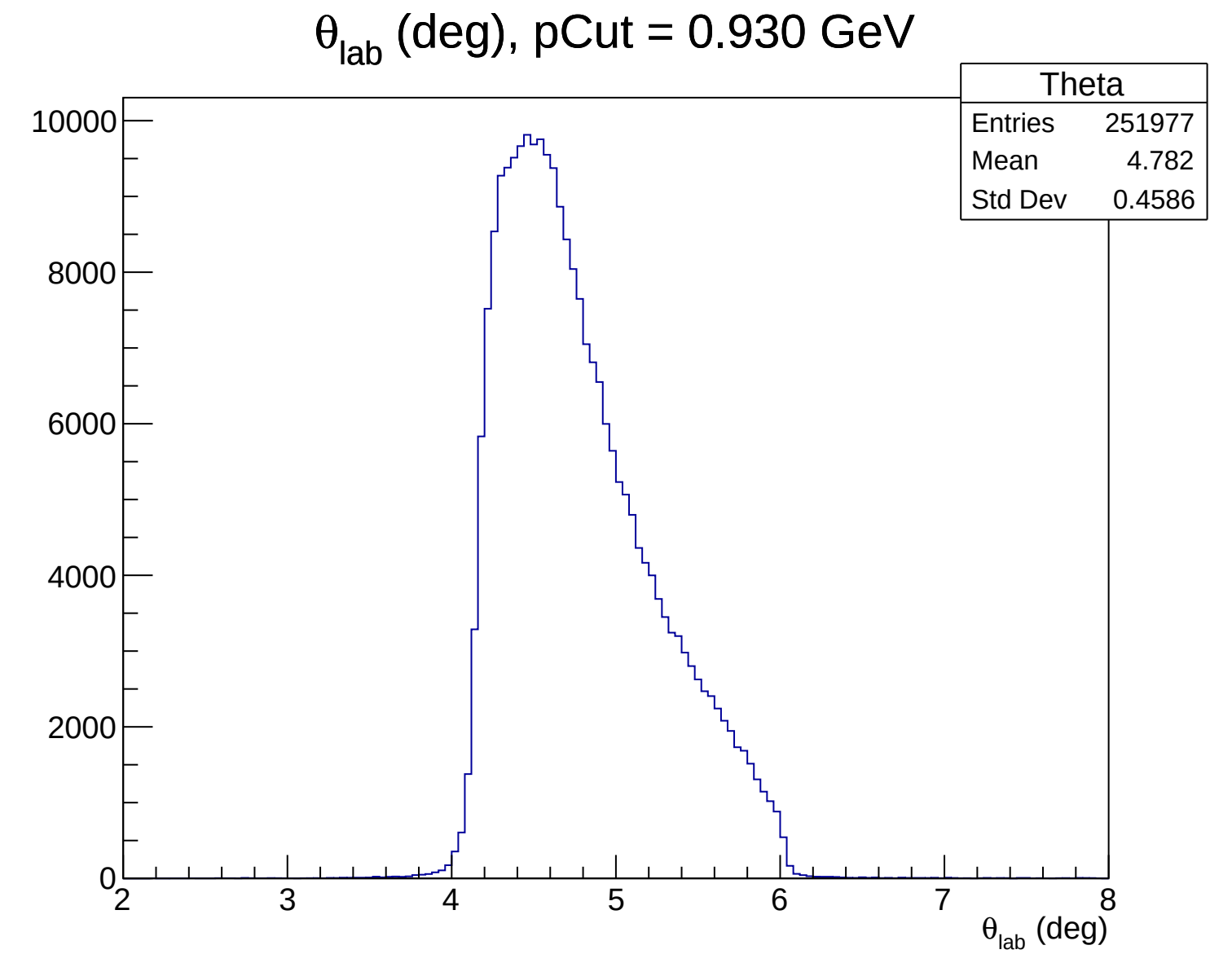
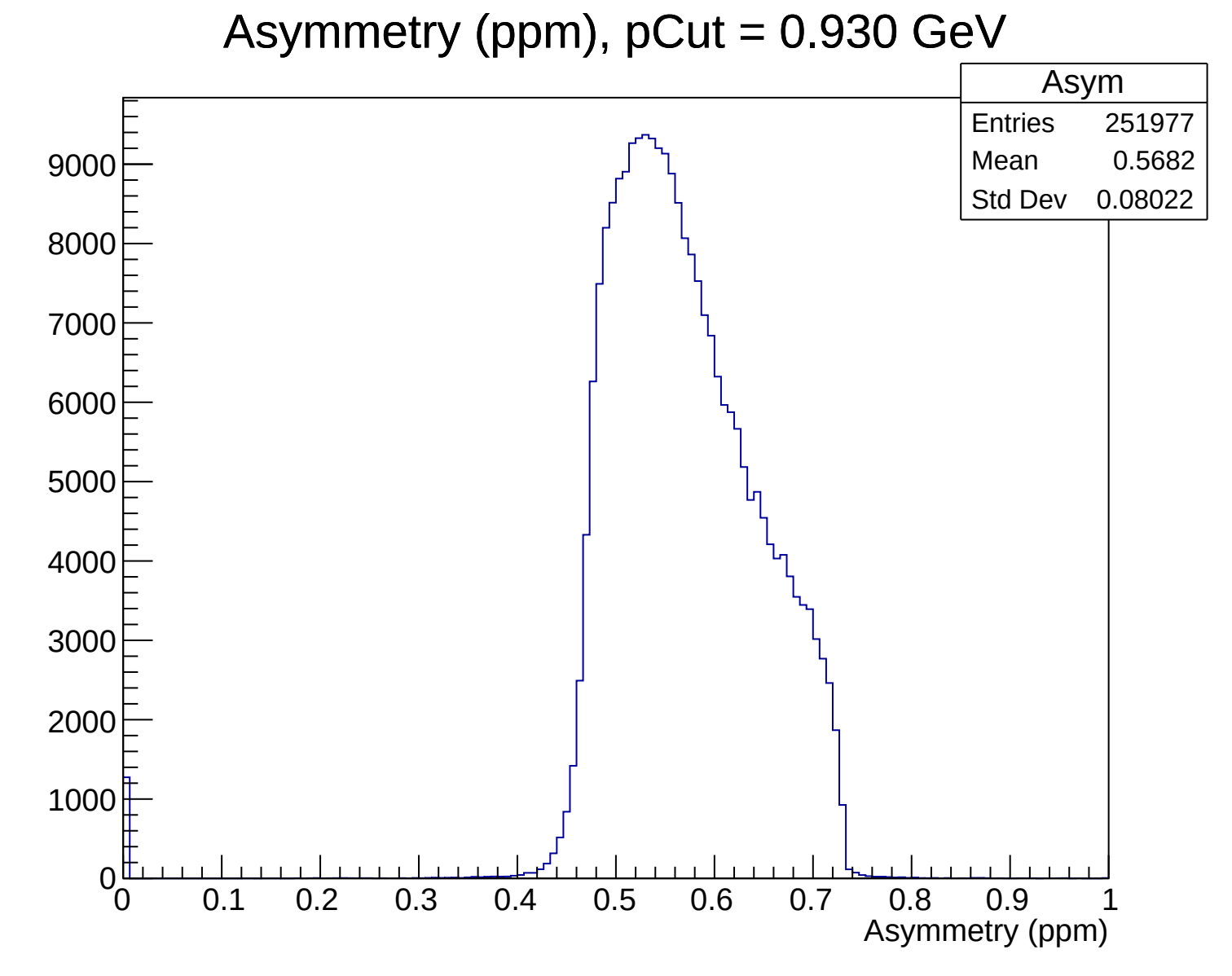
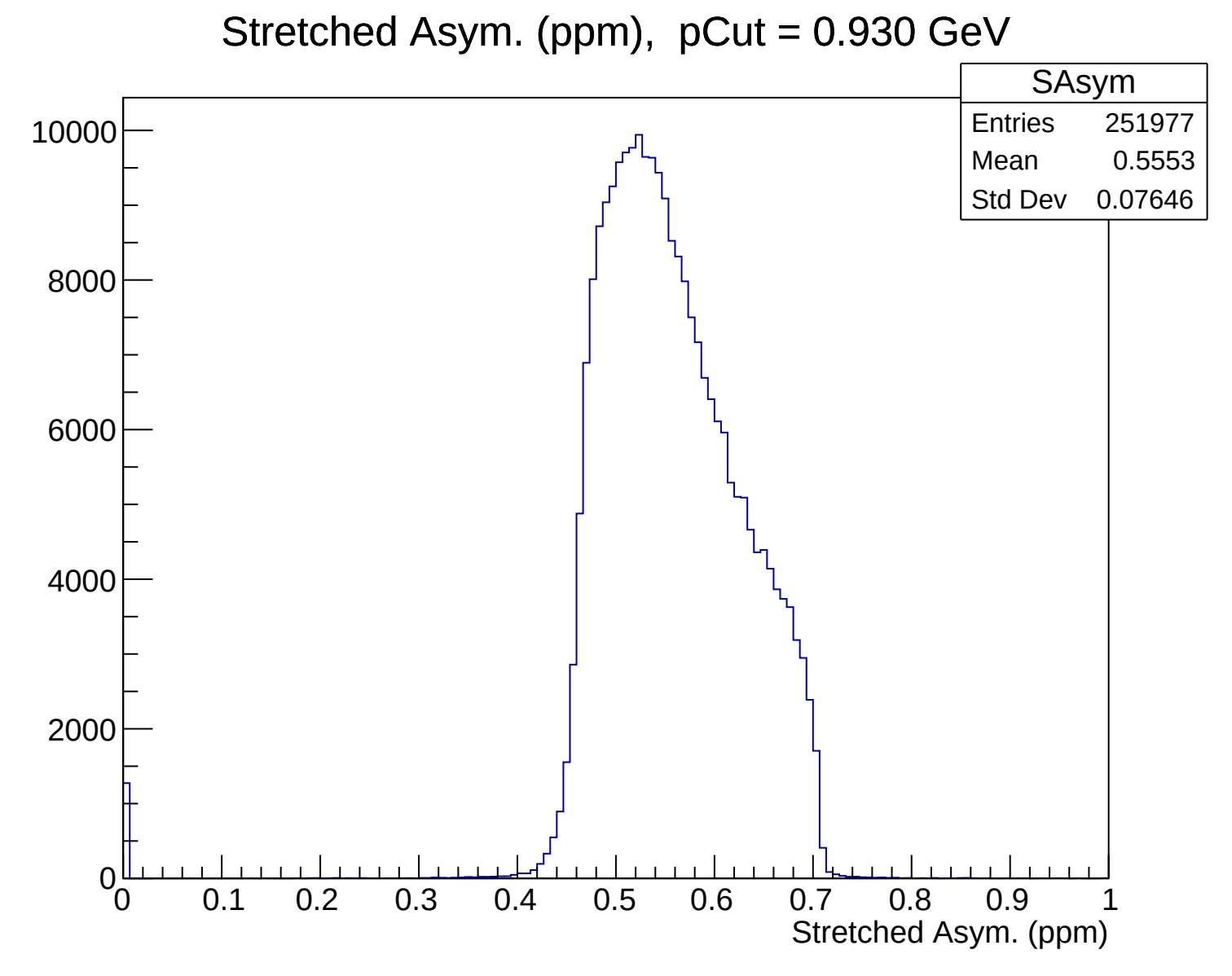
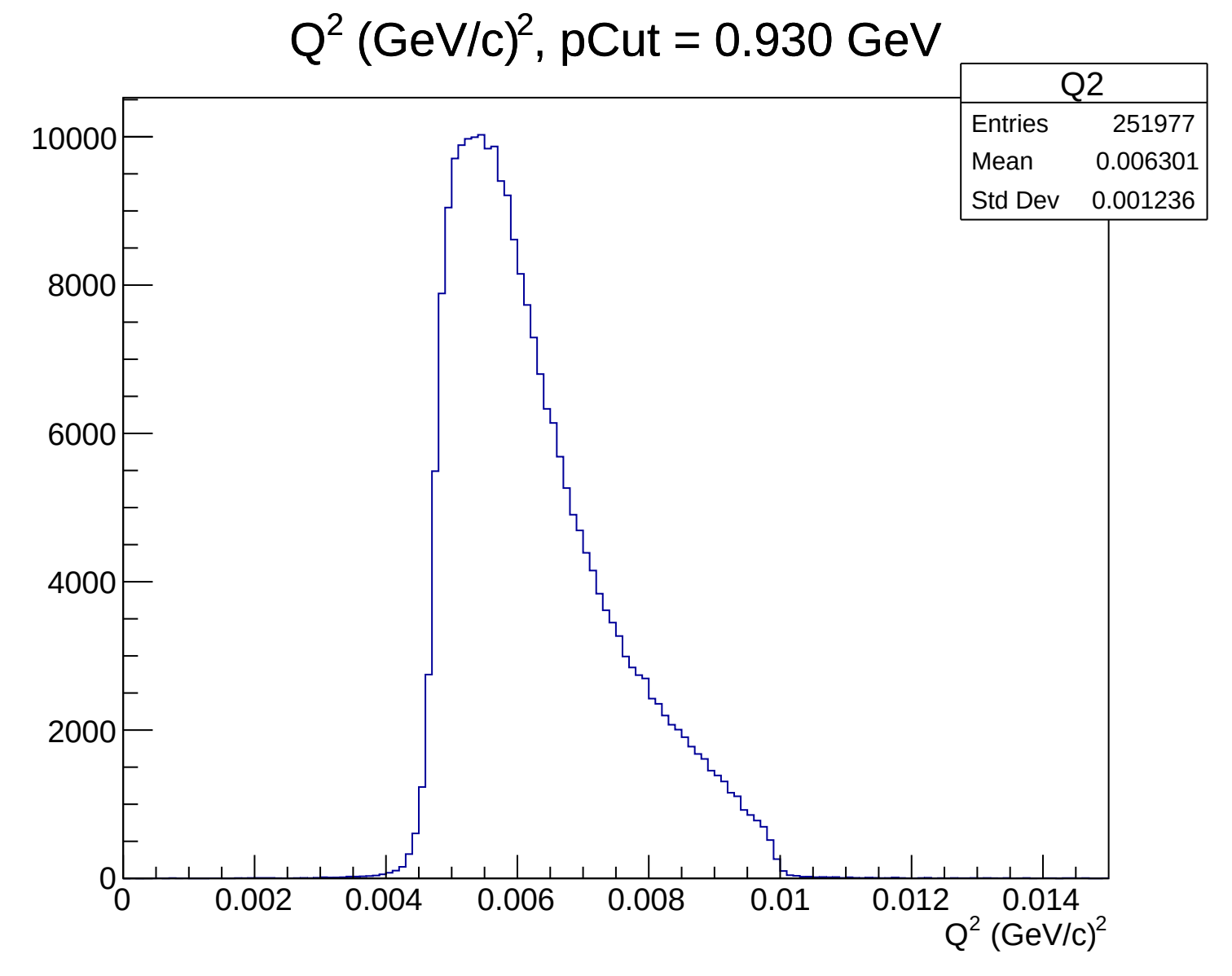
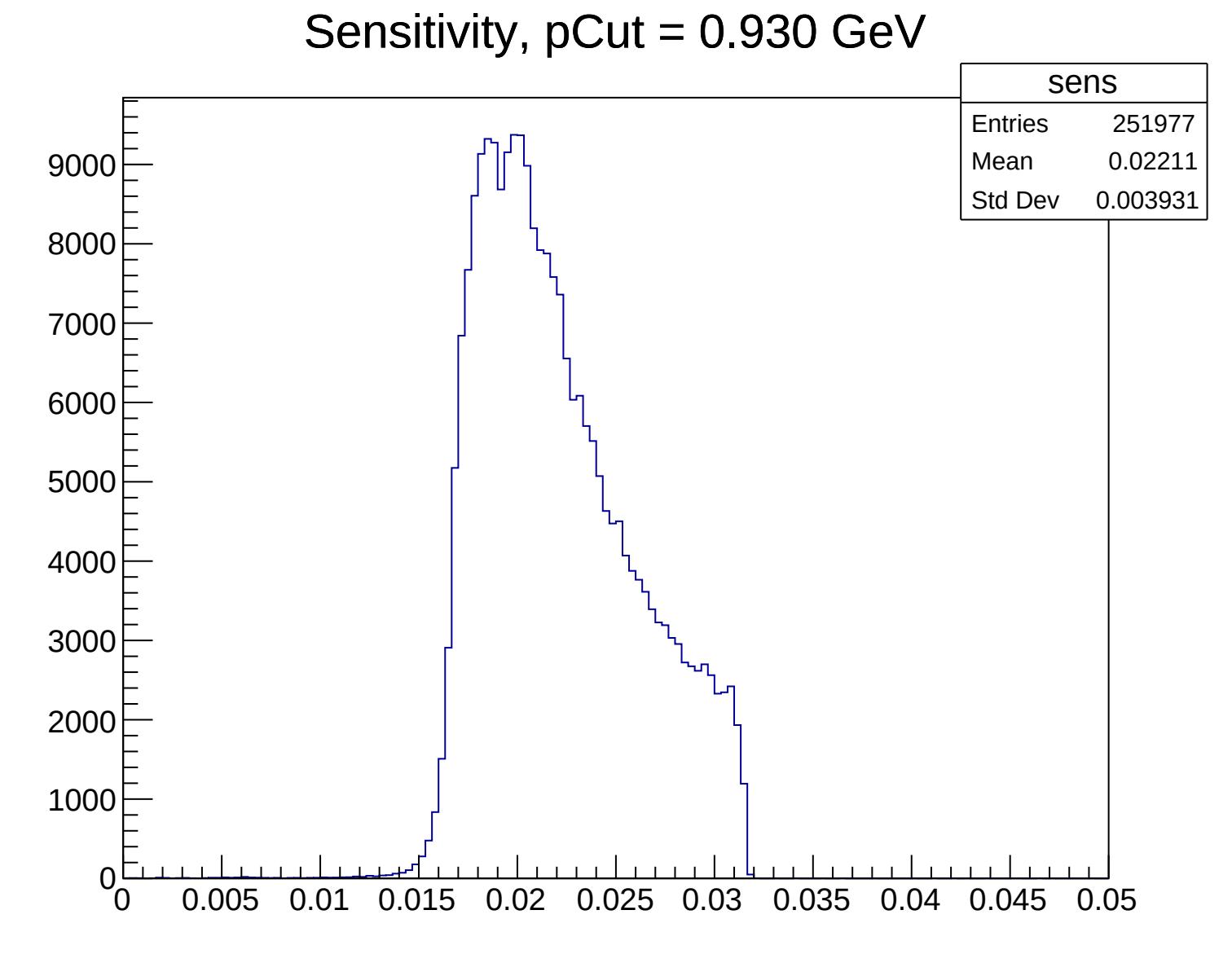

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9300 GeV
R.gold.p (GeV)

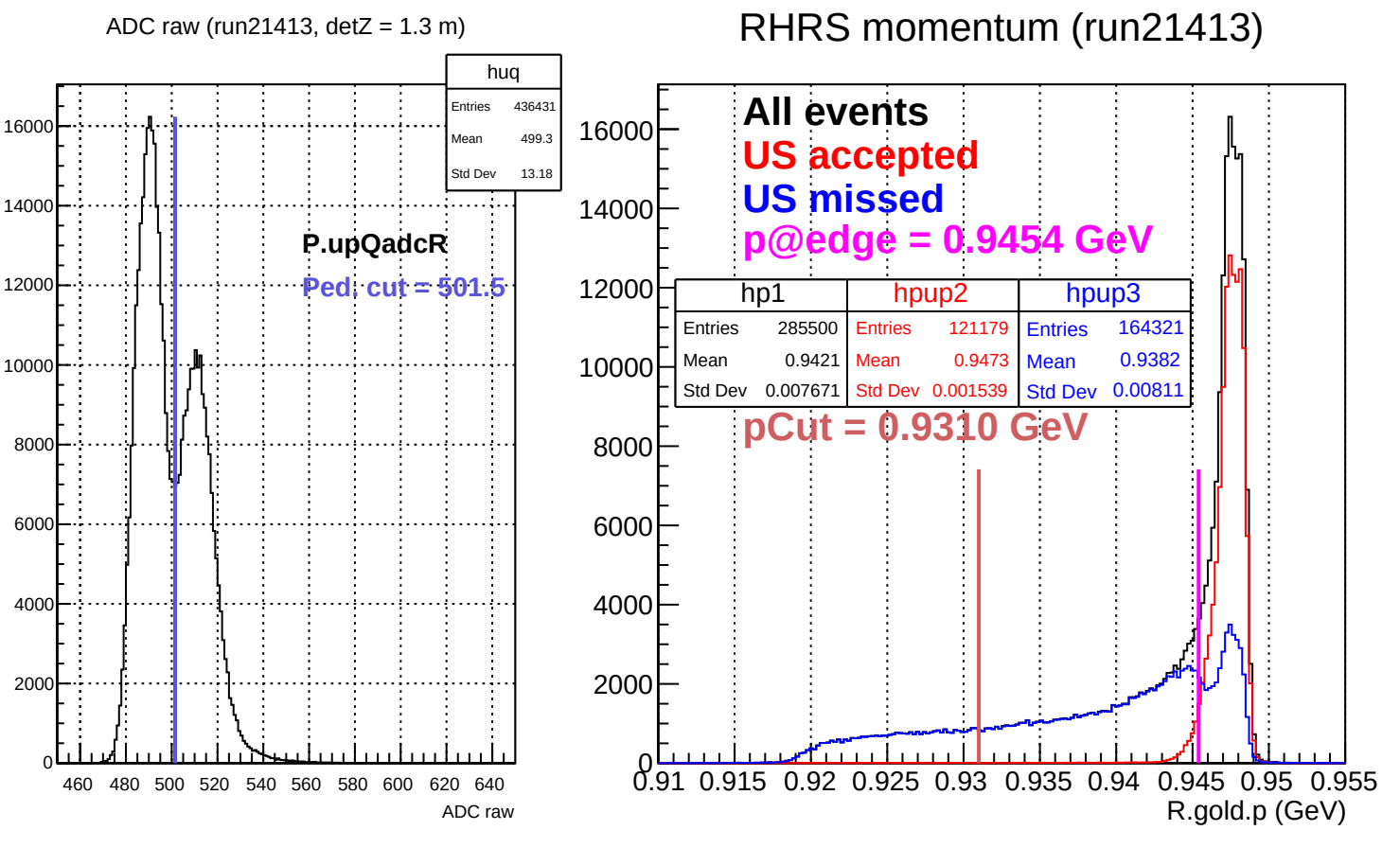

θlab (deg), pCut = 0.930 GeV
Theta
Entries 251977
Mean 4.782
Std Dev 0.4586
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

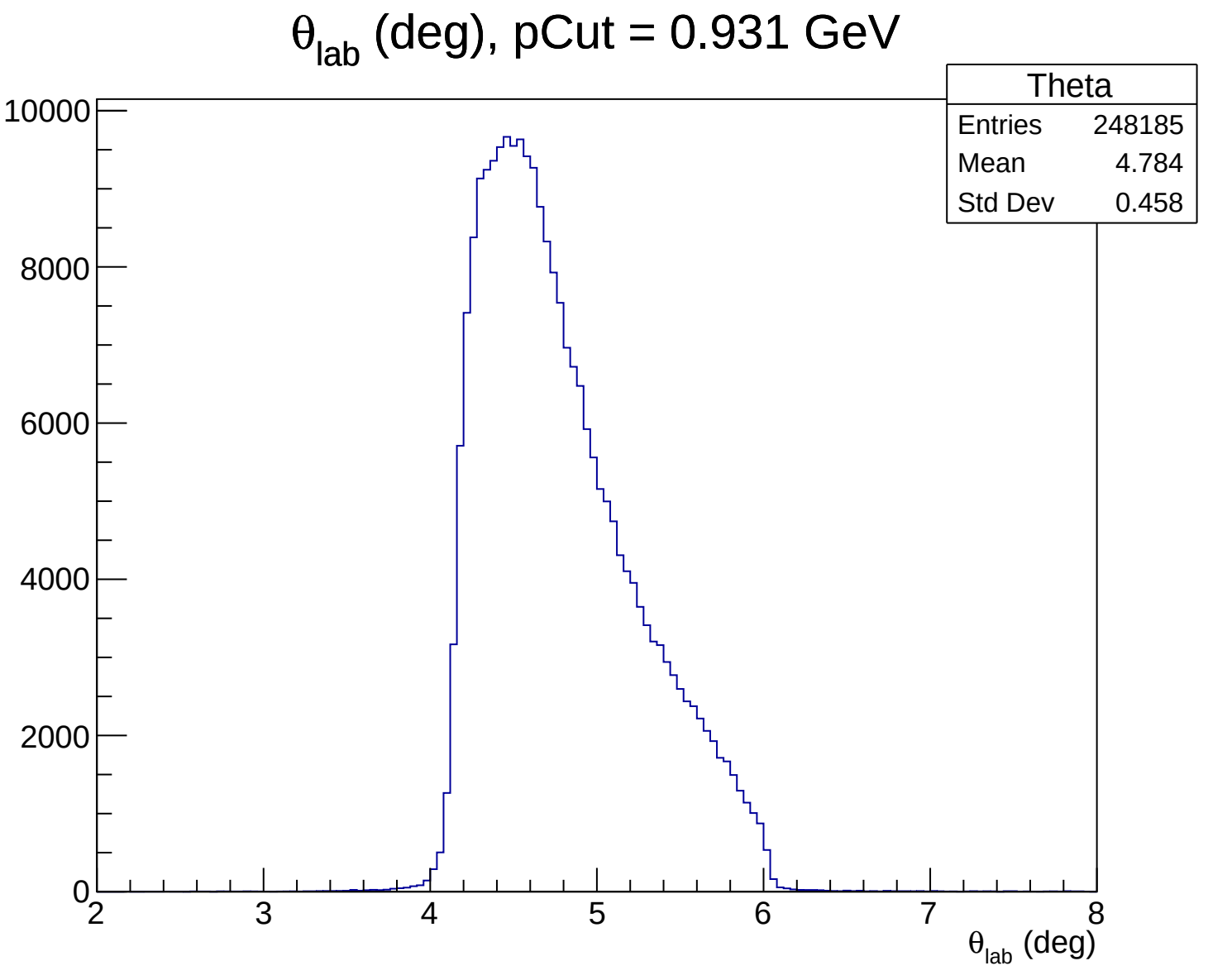

Asymmetry (ppm), pCut = 0.930 GeV
Asym
Entries 251977
Mean 0.5682
Std Dev 0.08022
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

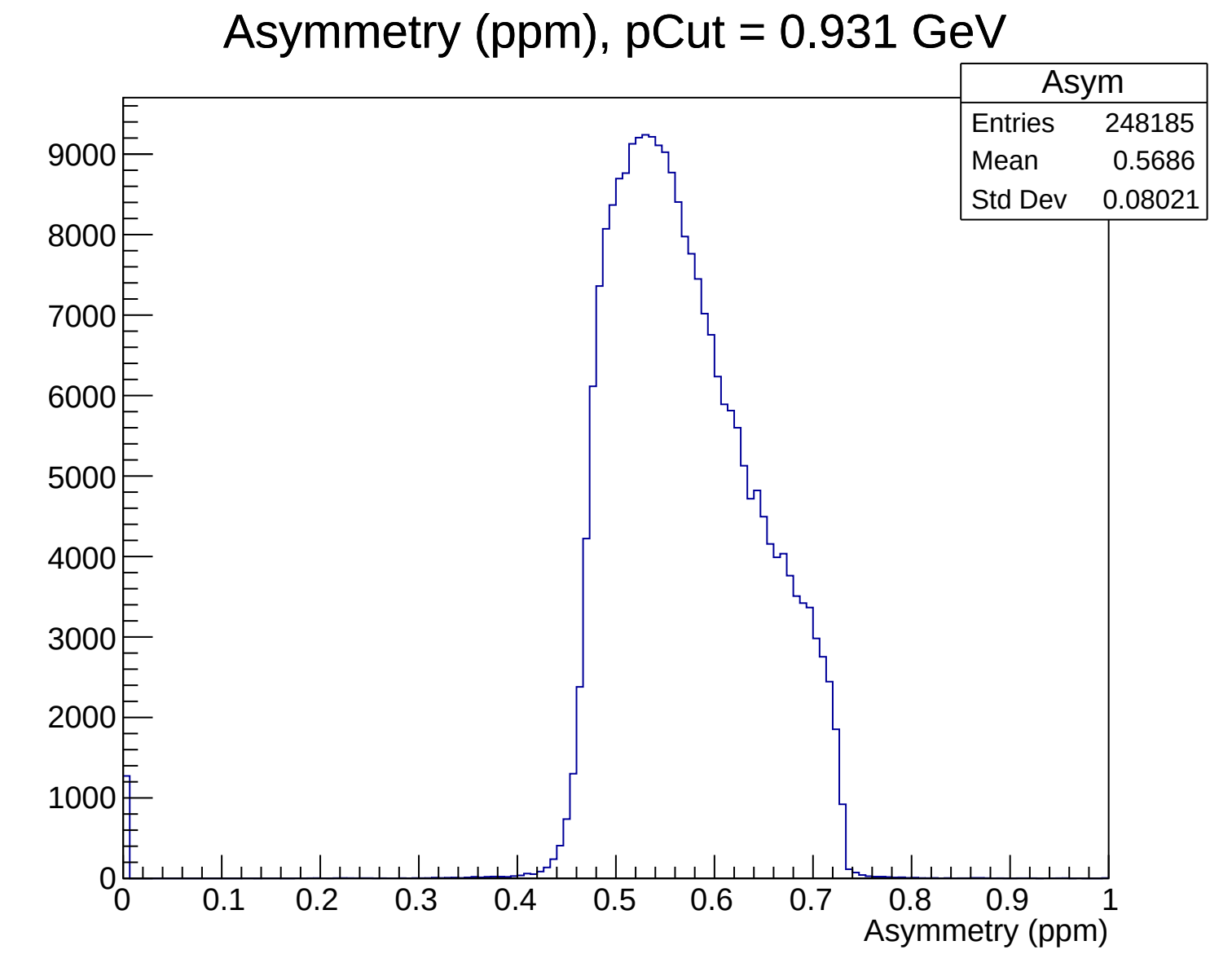

Stretched Asym. (ppm), pCut = 0.930 GeV
SAsym
Entries 251977
Mean 0.5553
Std Dev 0.07646
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

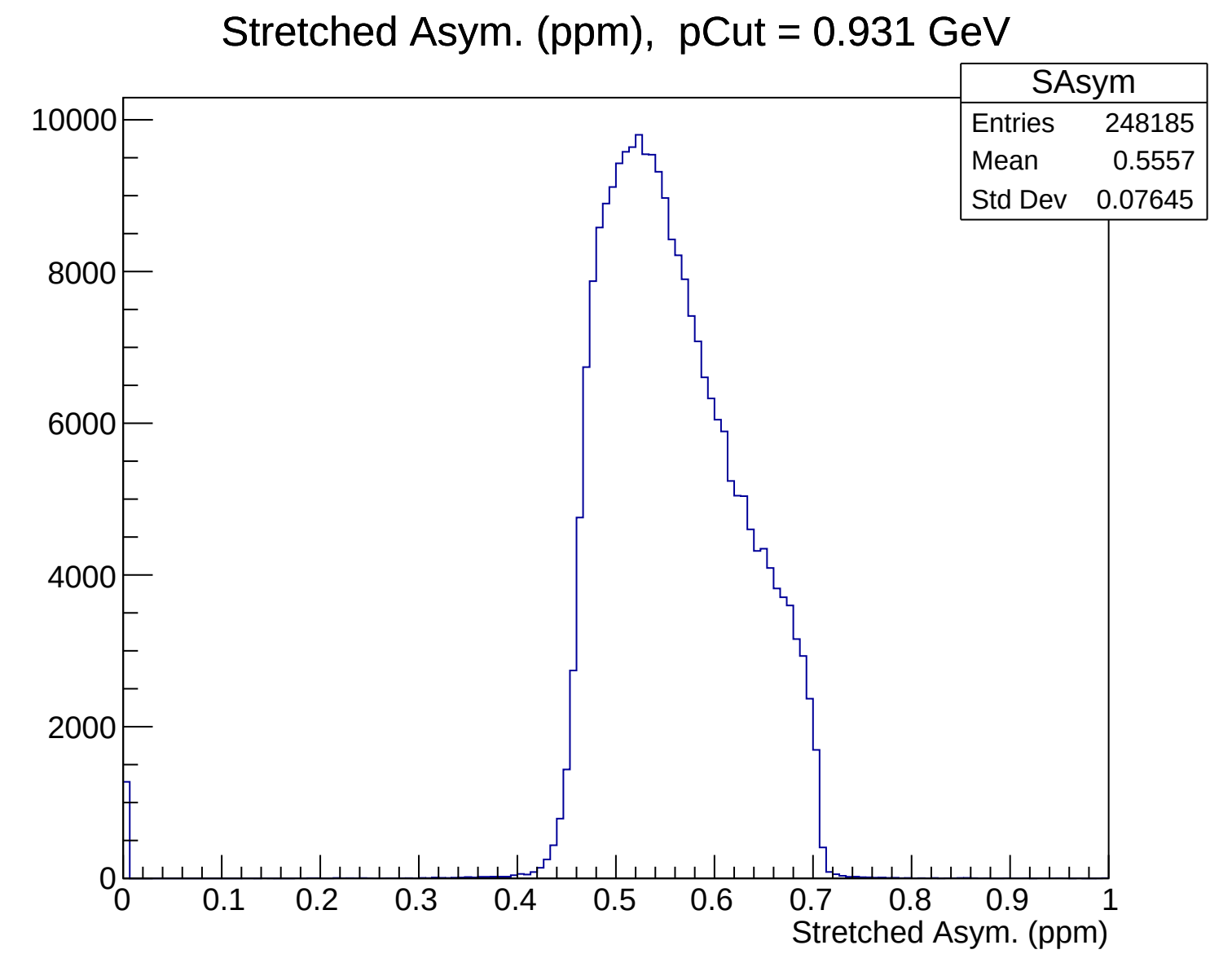

Q^2 (GeV/c)^2, pCut = 0.930 GeV
Q2
Entries 251977
Mean 0.006301
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

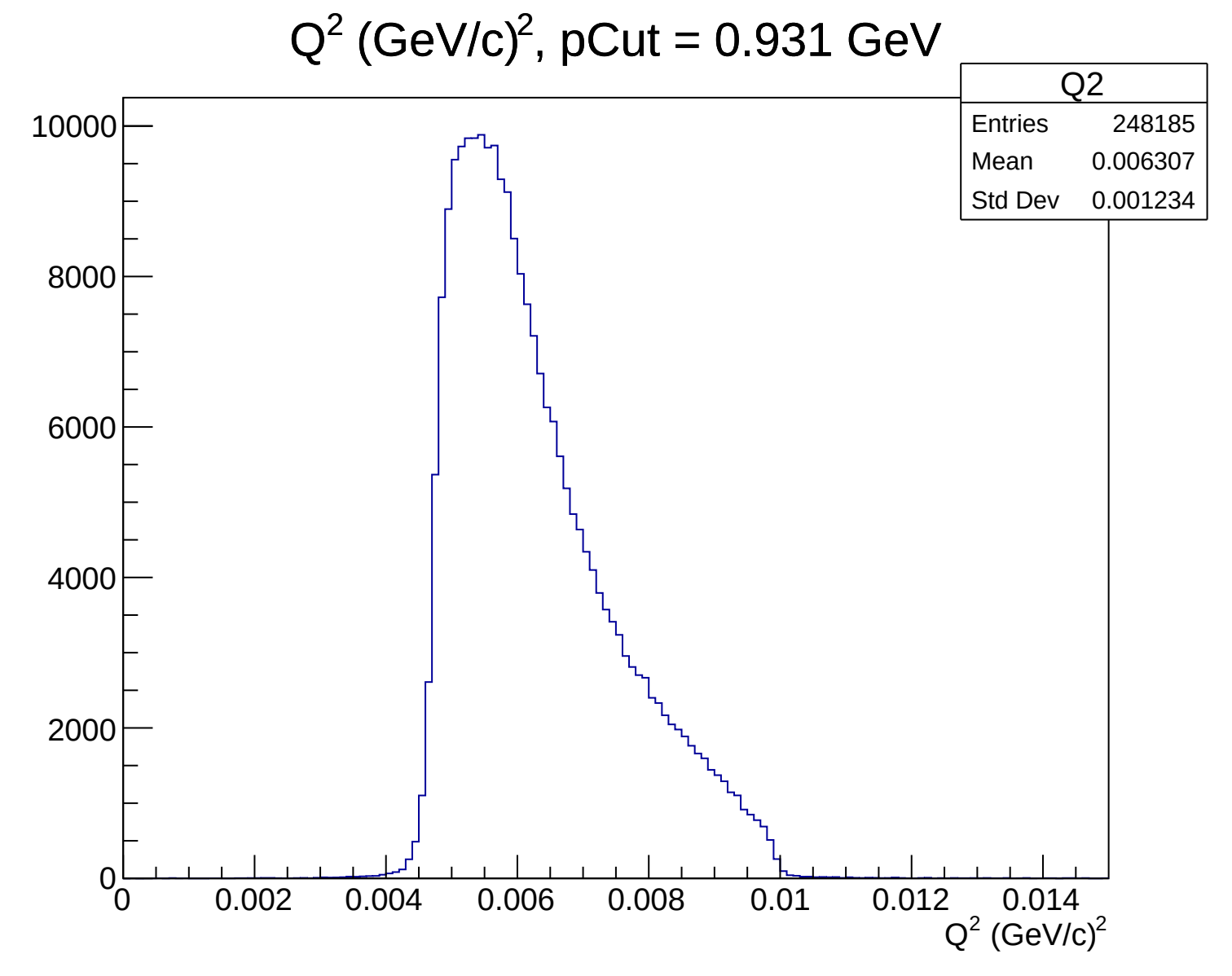

Sensitivity, pCut = 0.930 GeV
sens
Entries 251977
Mean 0.02211
Std Dev 0.003931
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

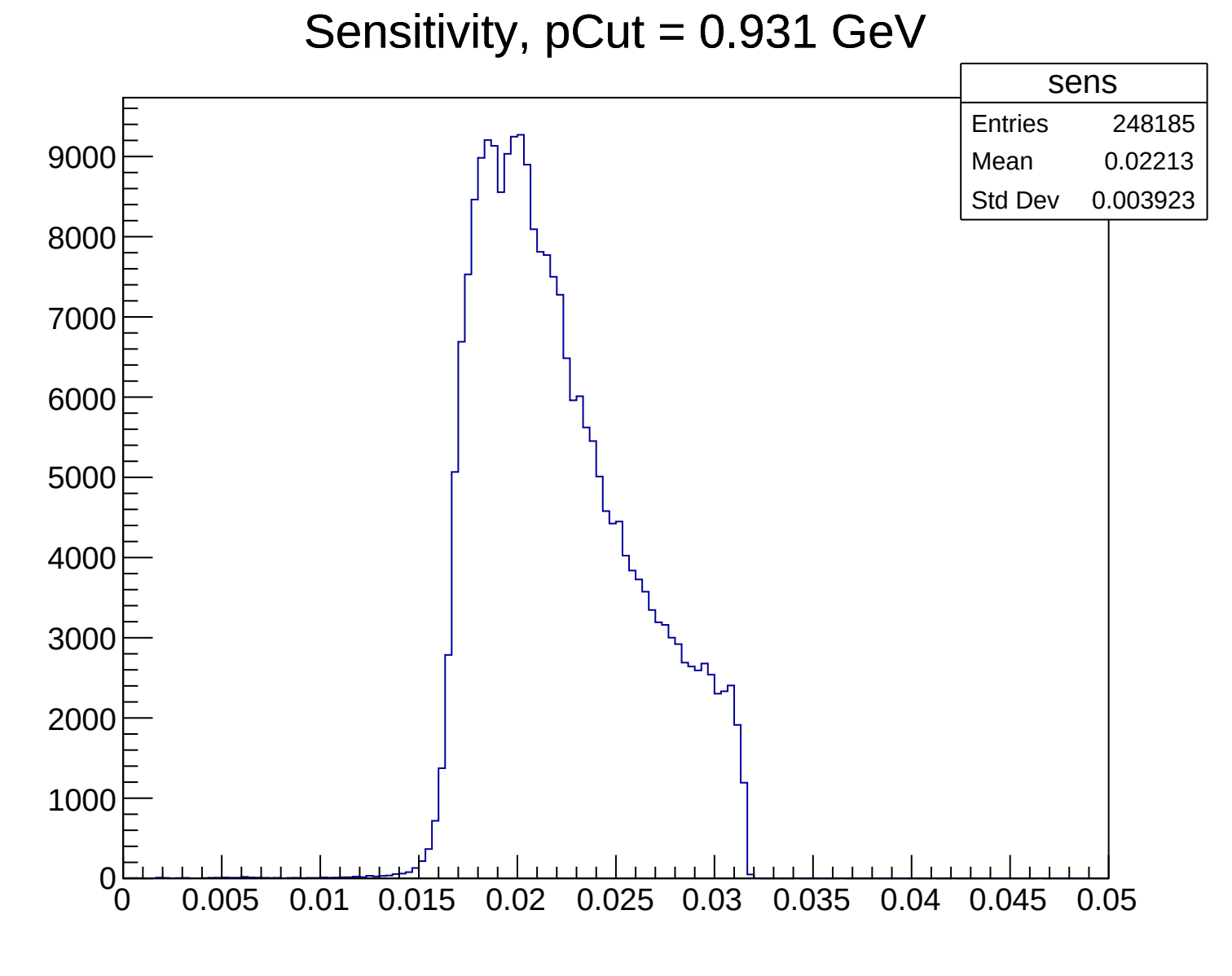

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9310 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.931 GeV
Theta
Entries 248185
Mean 4.784
Std Dev 0.458
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

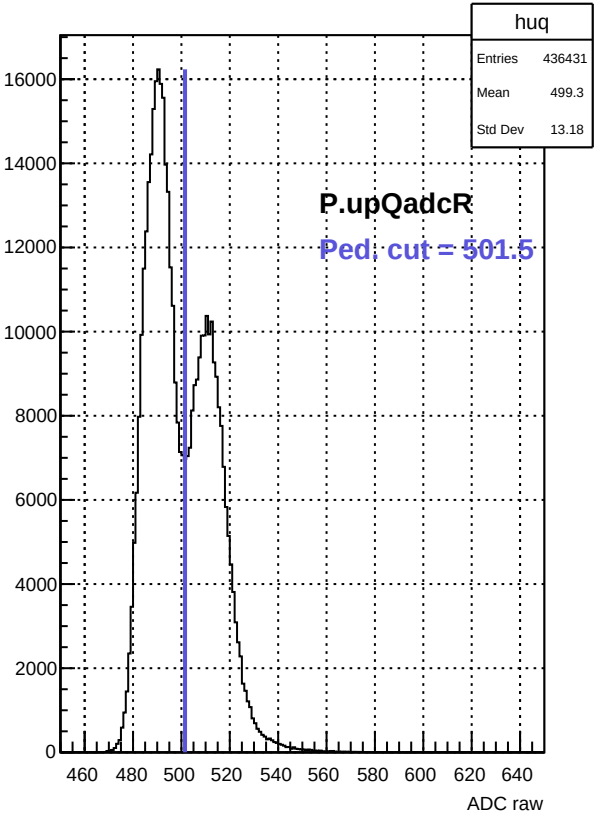

Asymmetry (ppm), pCut = 0.931 GeV
Asym
Entries 248185
Mean 0.5686
Std Dev 0.08021
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.931 GeV
SAsym
Entries 248185
Mean 0.5557
Std Dev 0.07645
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)

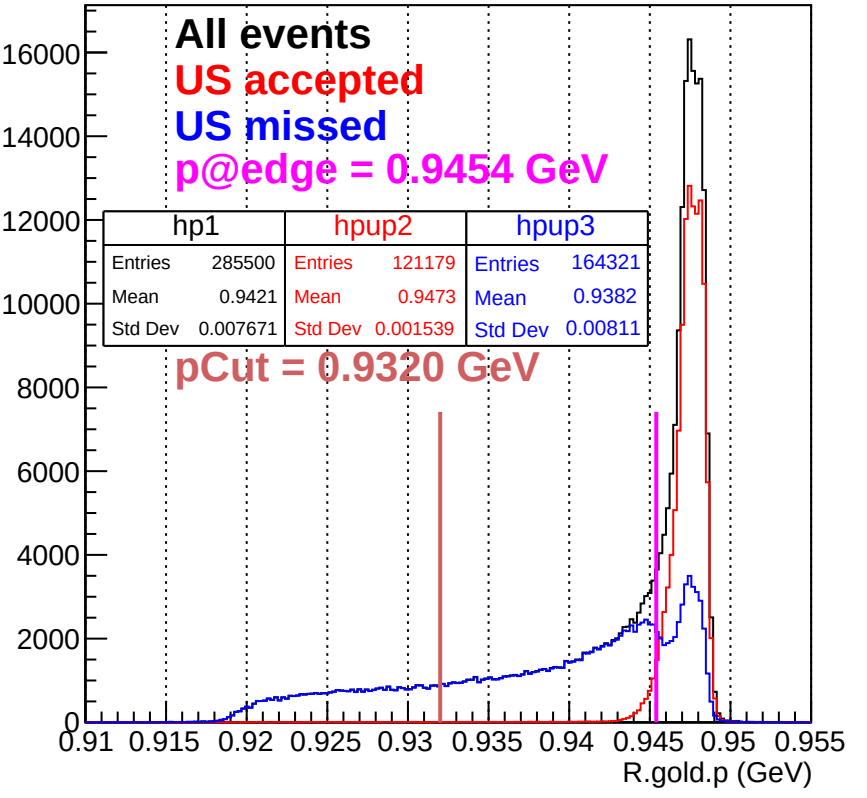

Q^2 (GeV/c)^2, pCut = 0.931 GeV
Q2
Entries 248185
Mean 0.006307
Std Dev 0.001234
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

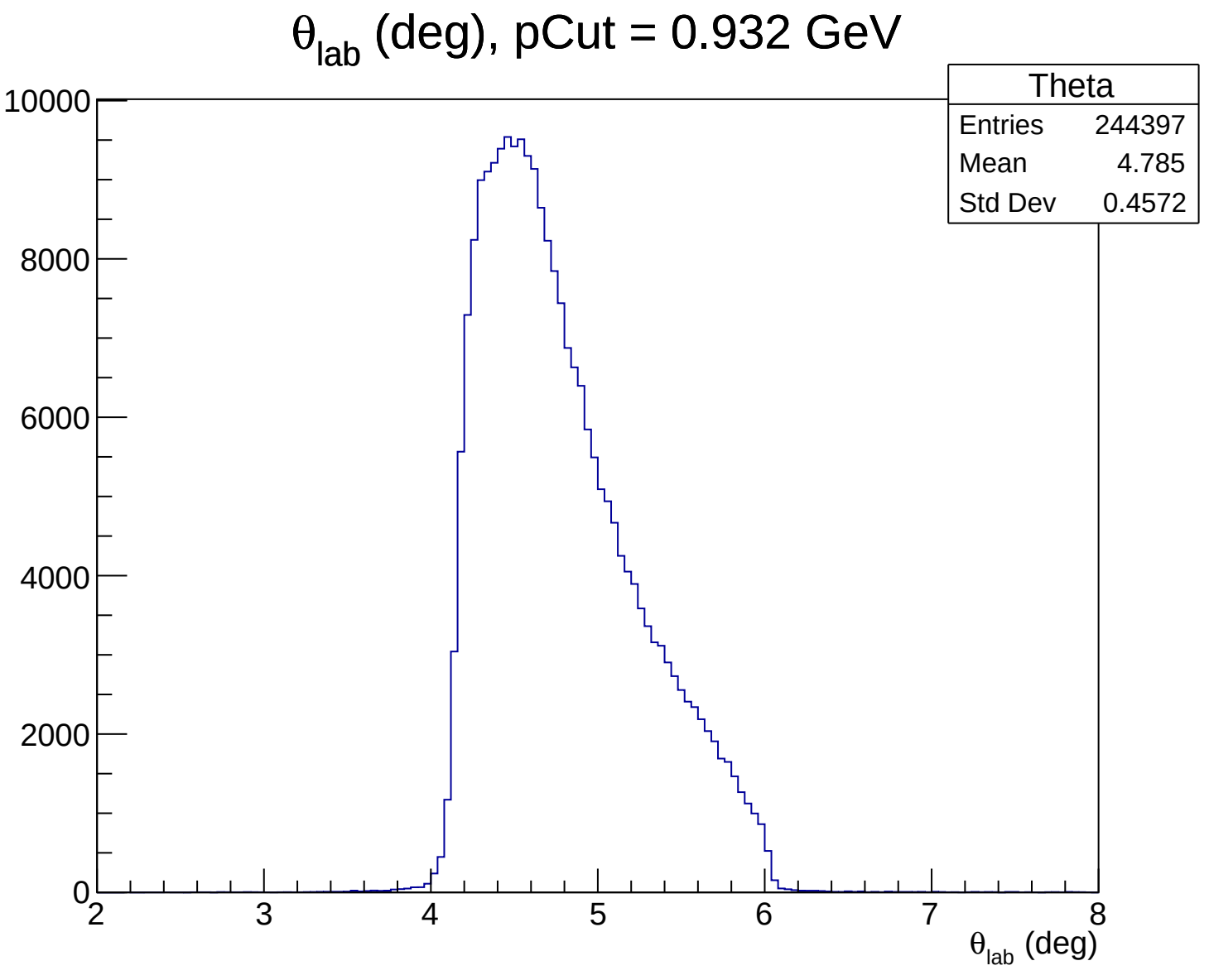

Sensitivity, pCut = 0.931 GeV
sens
Entries 248185
Mean 0.02213
Std Dev 0.003923
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

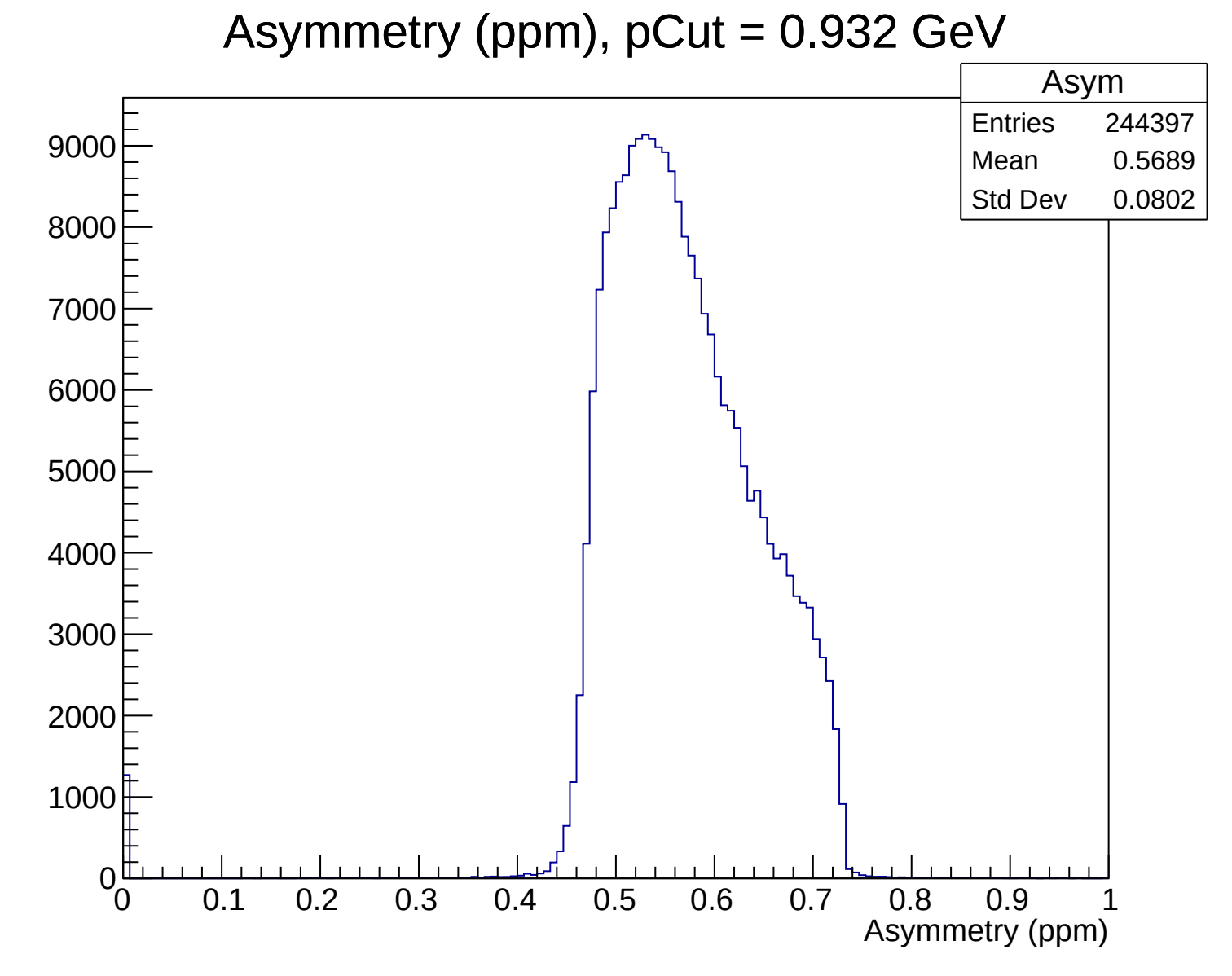
ADC raw (run21413, detZ = 1.3 m)

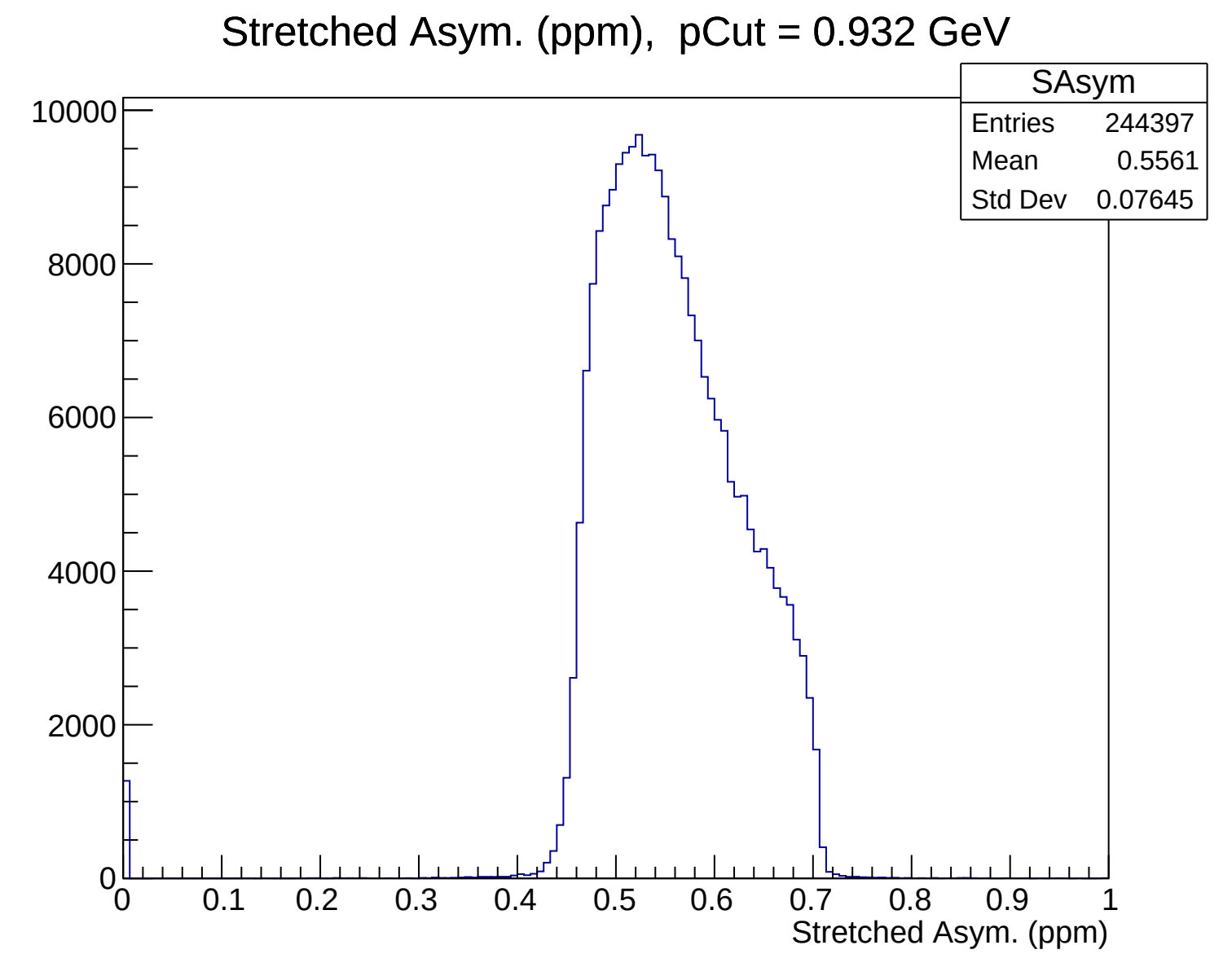


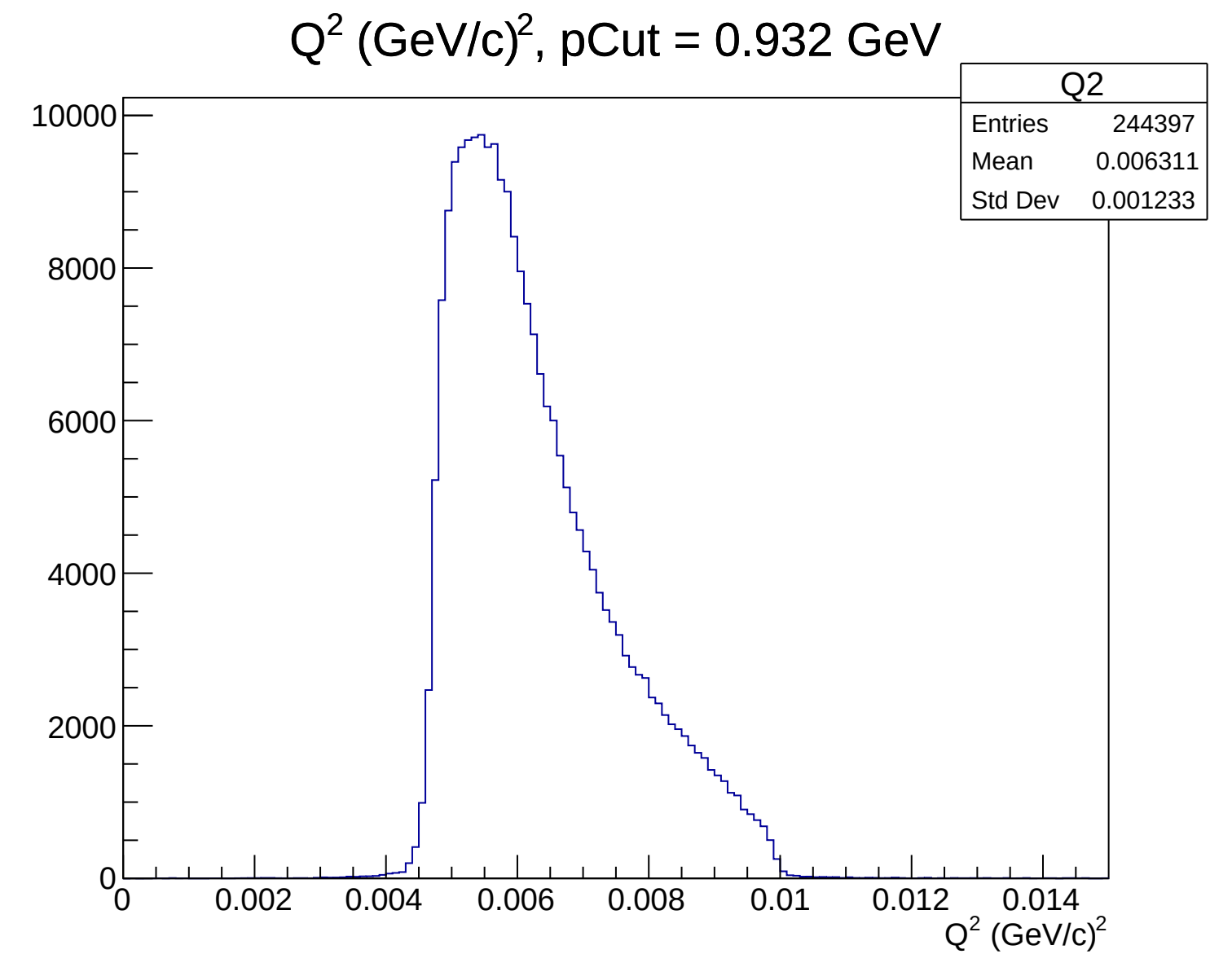
RHRS momentum (run21413)

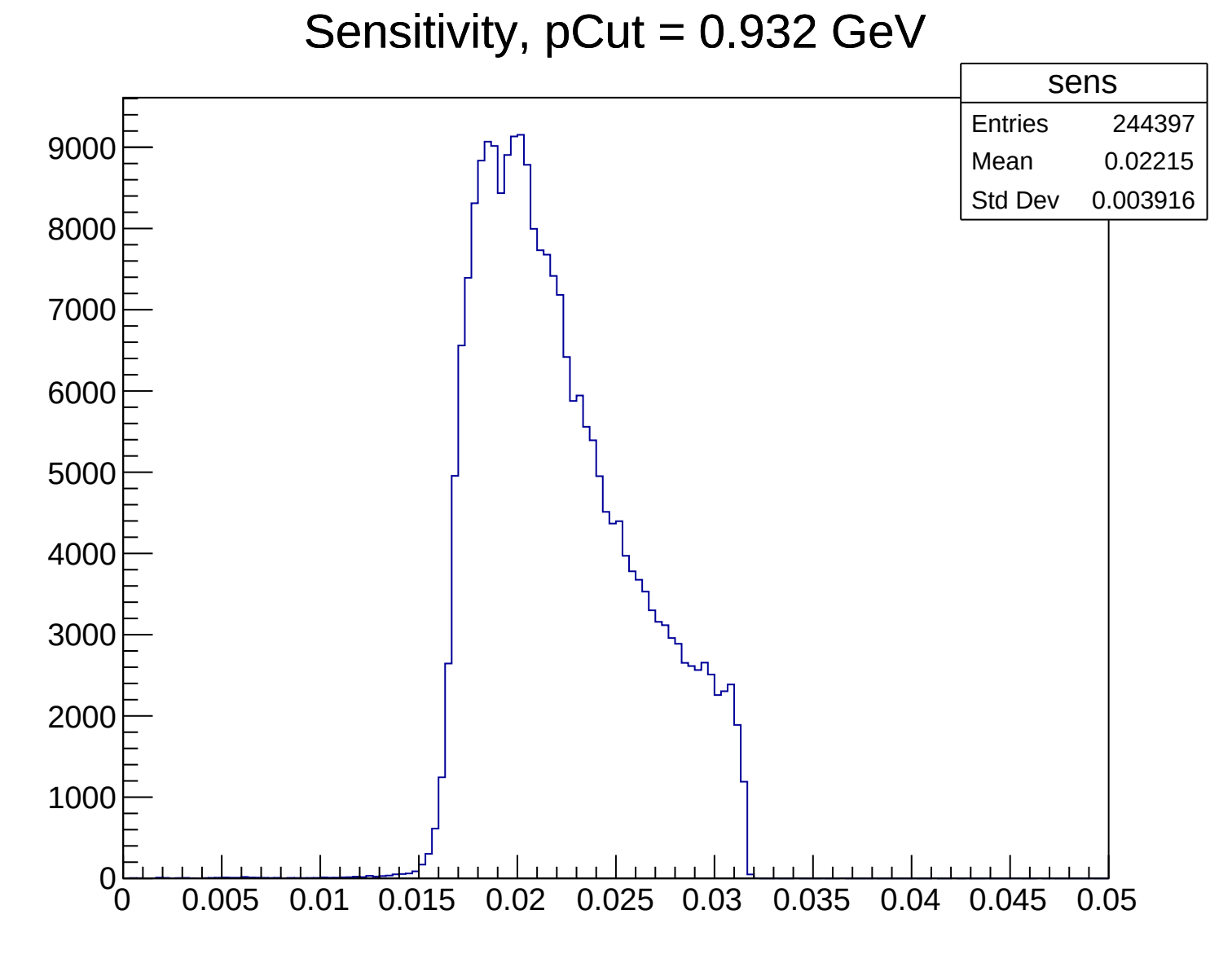



θlab (deg), pCut = 0.932 GeV
Theta
Entries 244397
Mean 4.785
Std Dev 0.4572
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

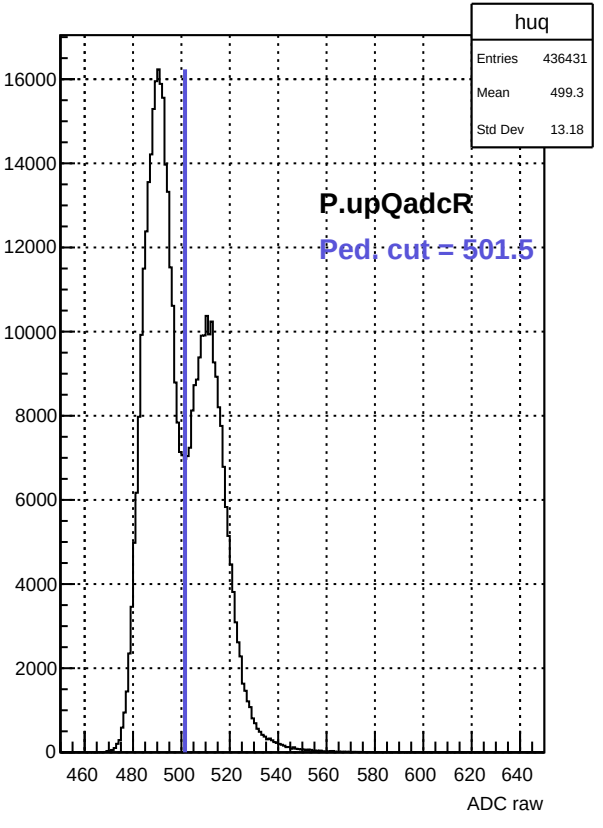

Asymmetry (ppm), pCut = 0.932 GeV
Asym
Entries 244397
Mean 0.5689
Std Dev 0.0802
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.932 GeV
SAsym
Entries 244397
Mean 0.5561
Std Dev 0.07645
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)

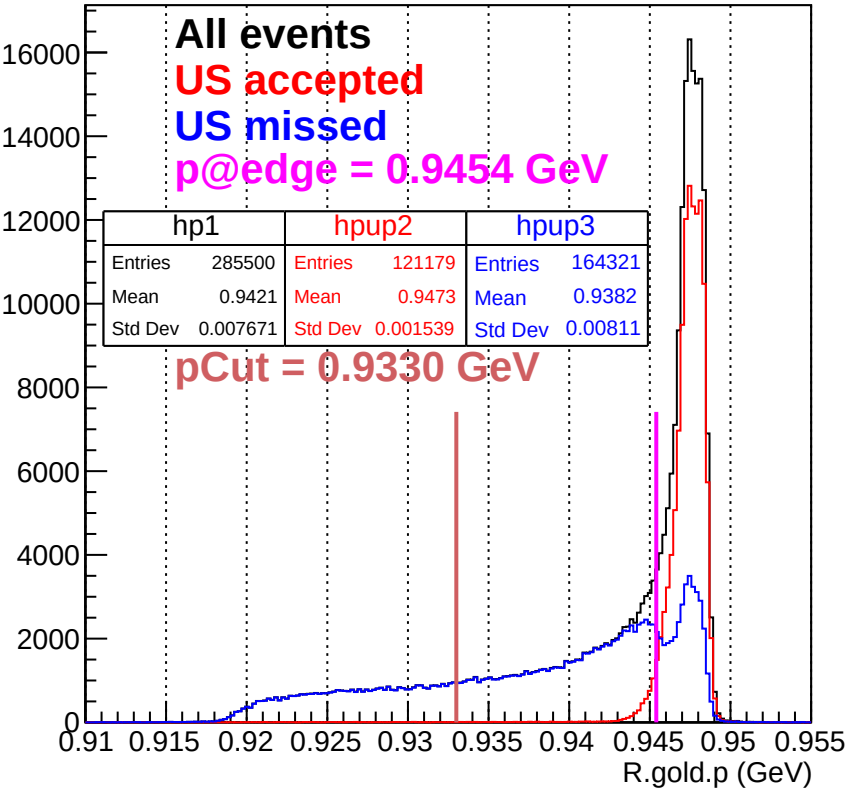

Q^2 (GeV/c)^2, pCut = 0.932 GeV
Q2
Entries 244397
Mean 0.006311
Std Dev 0.001233
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

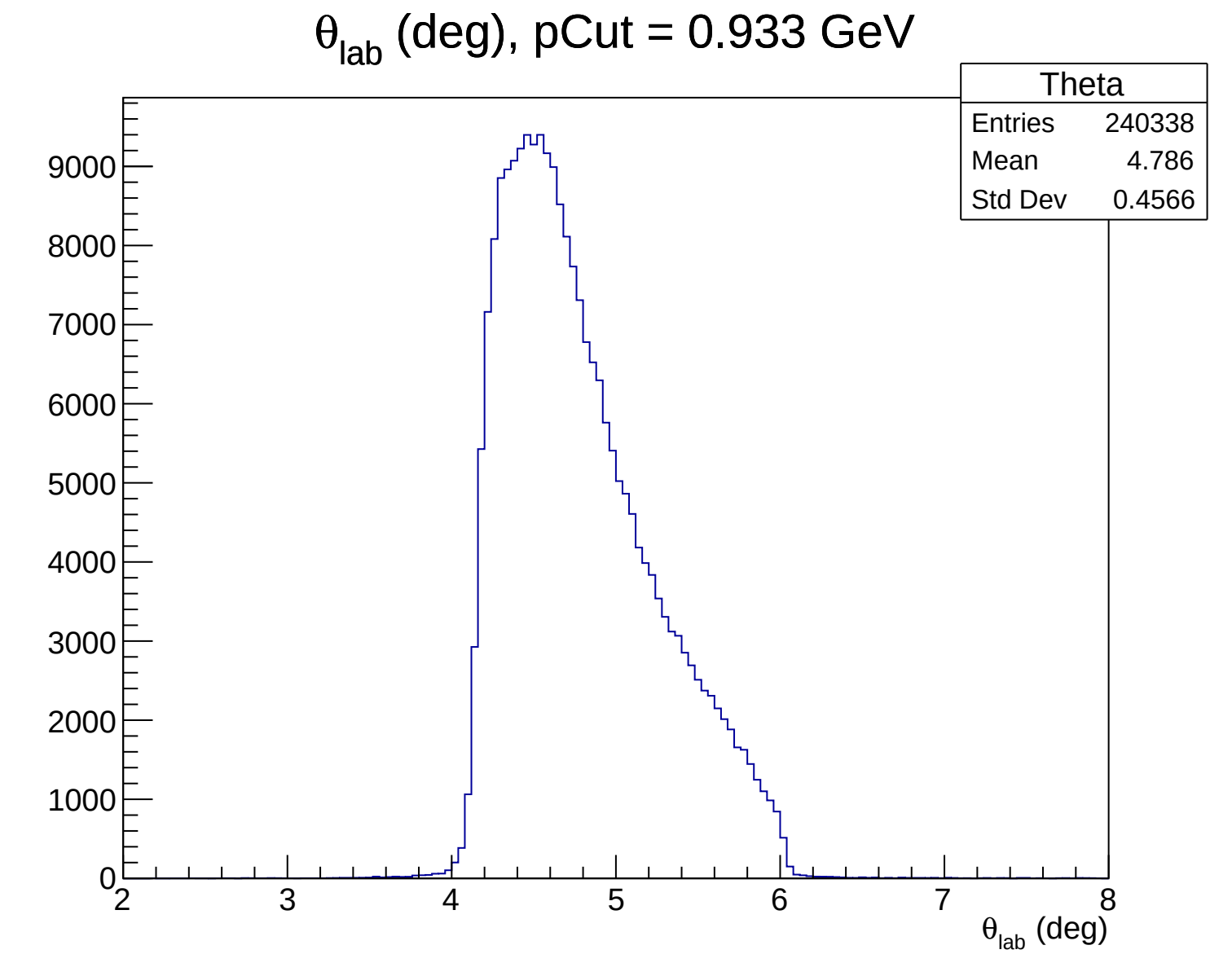

Sensitivity, pCut = 0.932 GeV
sens
Entries 244397
Mean 0.02215
Std Dev 0.003916
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

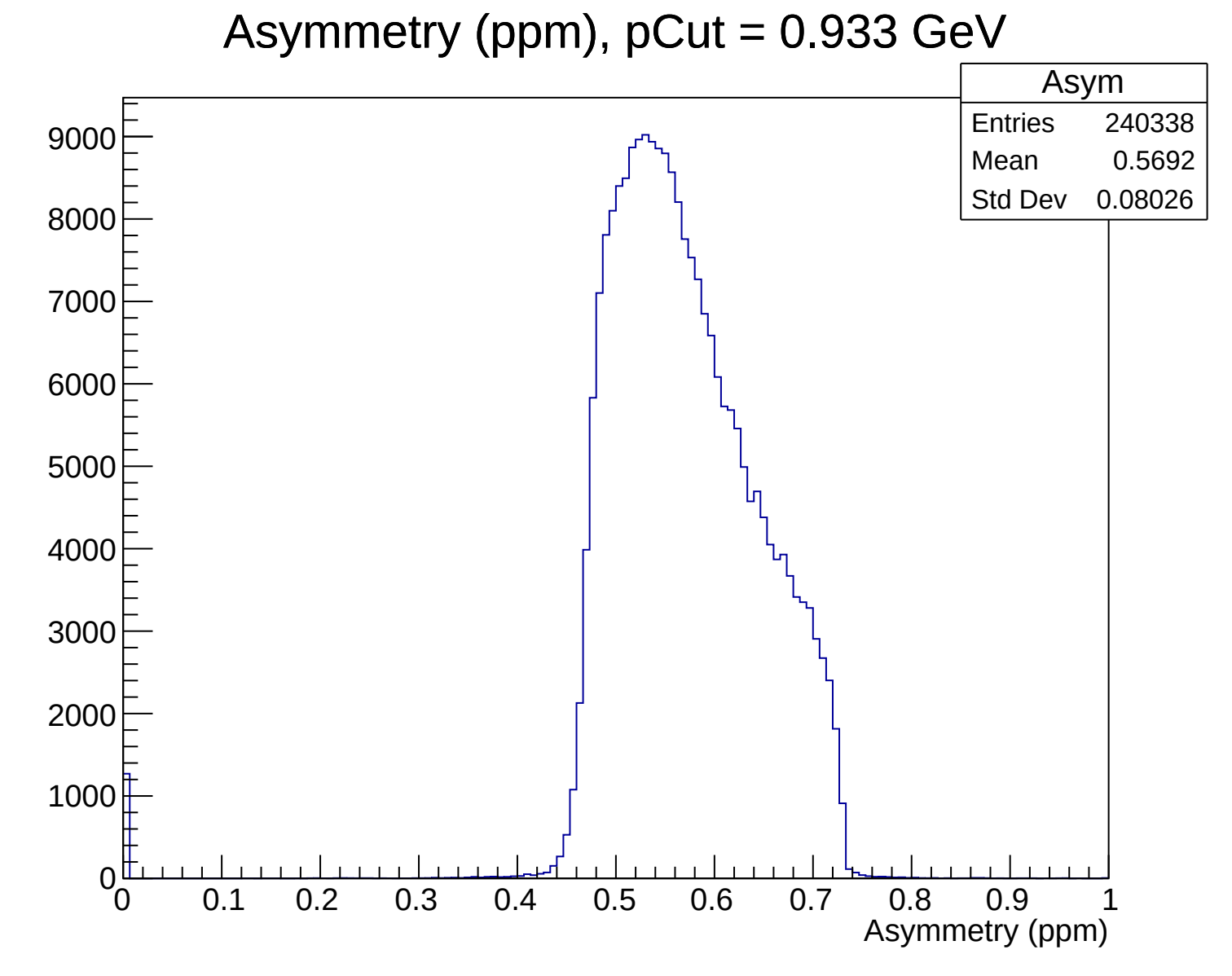
ADC raw (run21413, detZ = 1.3 m)

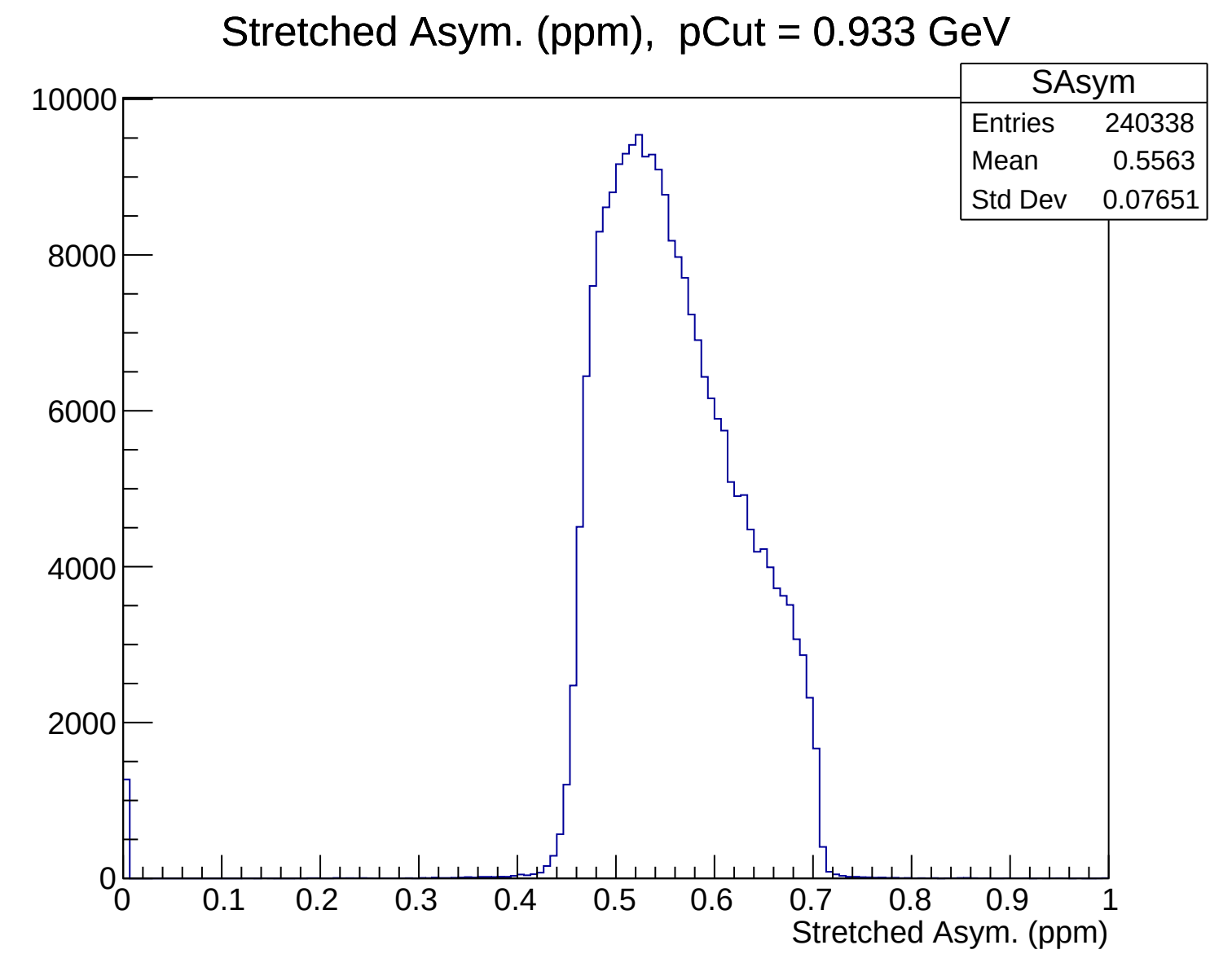


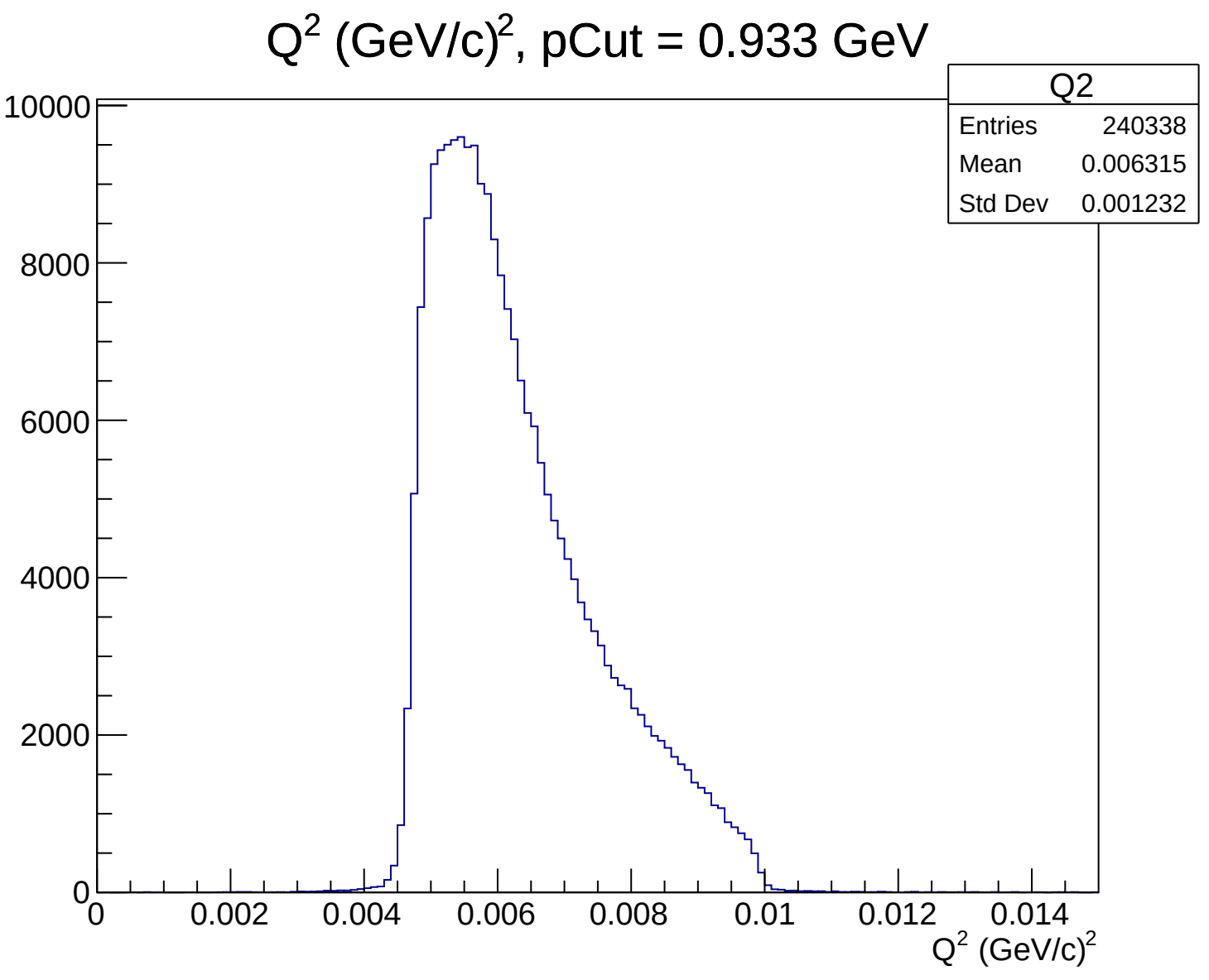
RHRS momentum (run21413)

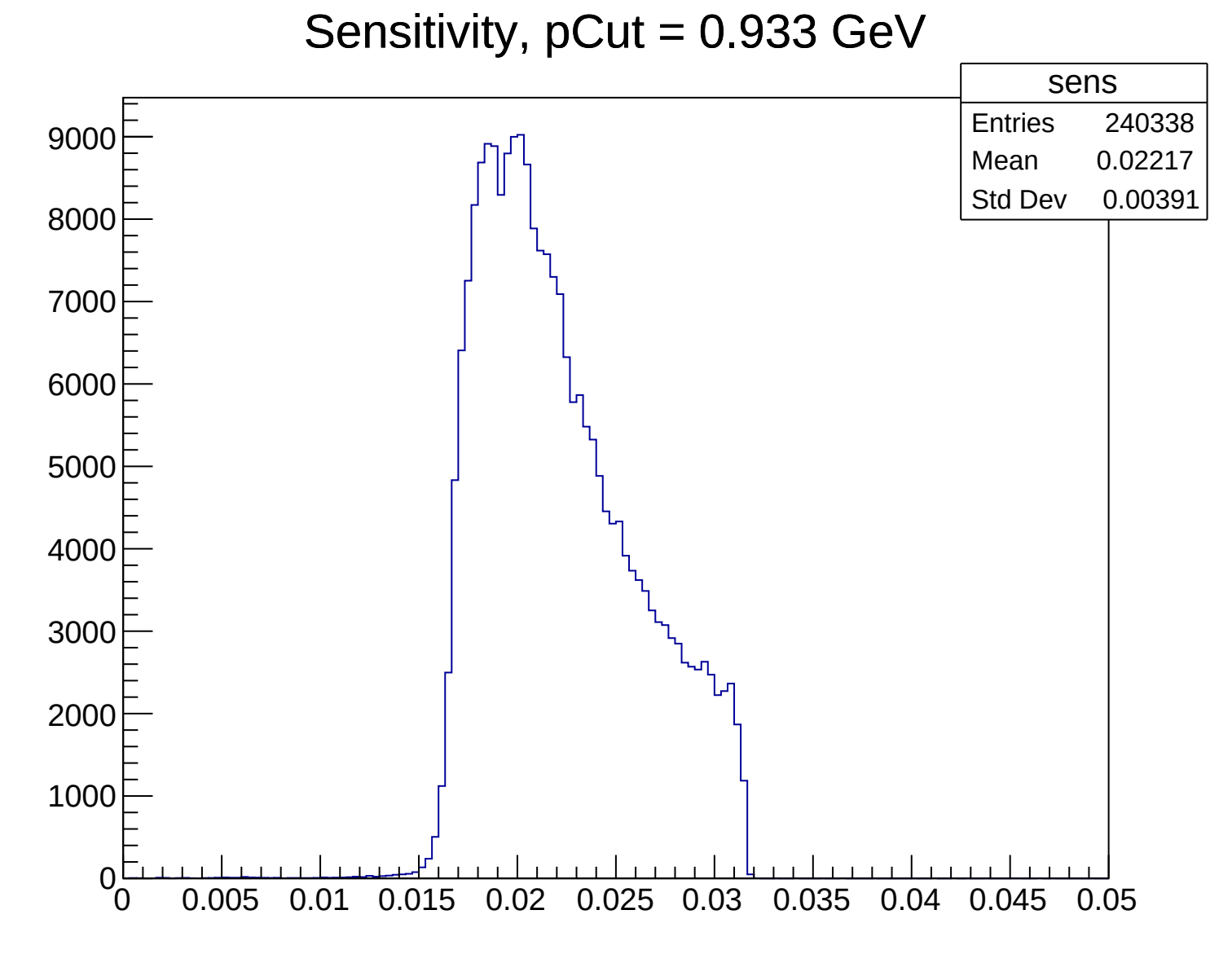


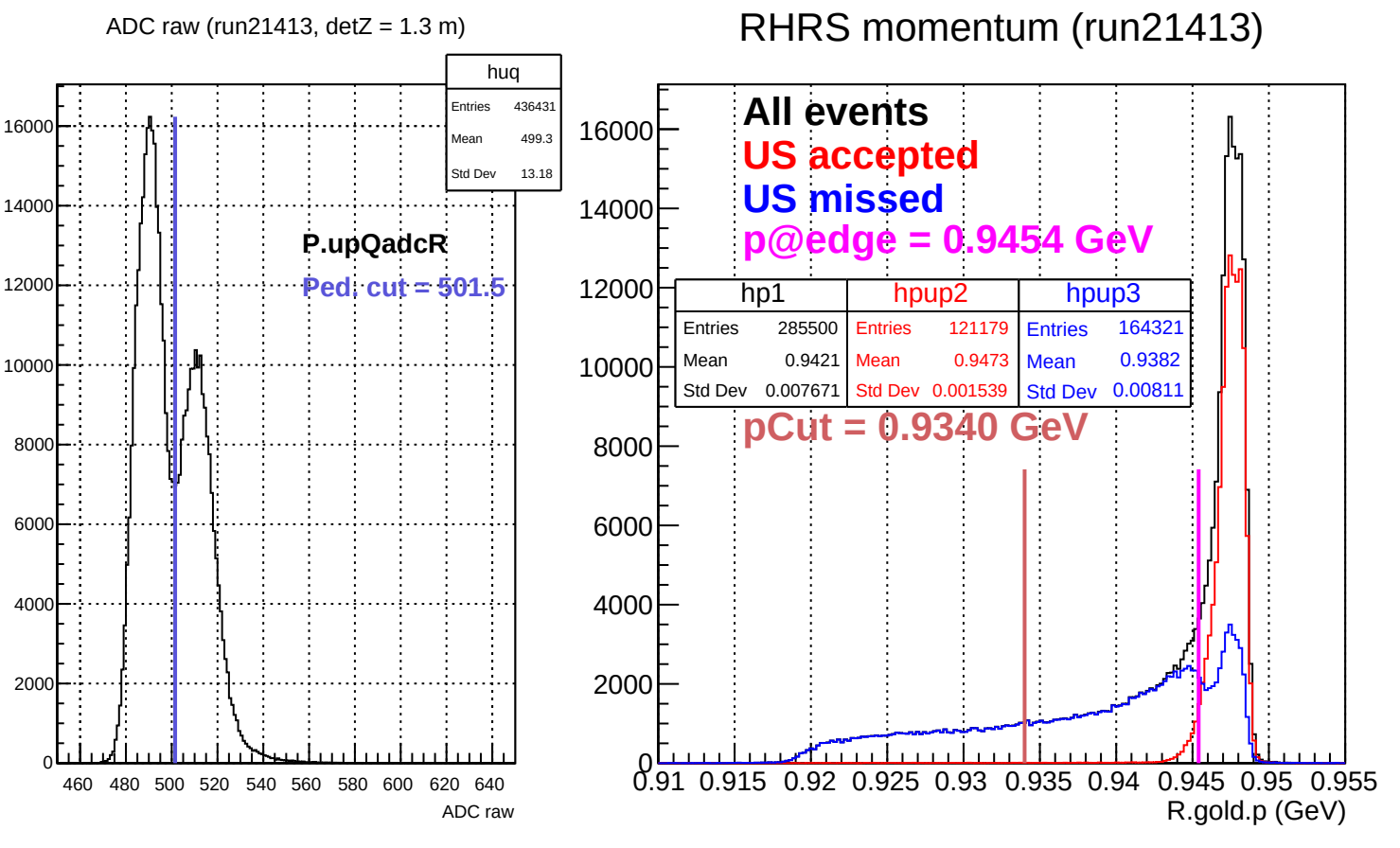

θlab (deg), pCut = 0.933 GeV
Theta
Entries 240338
Mean 4.786
Std Dev 0.4566
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

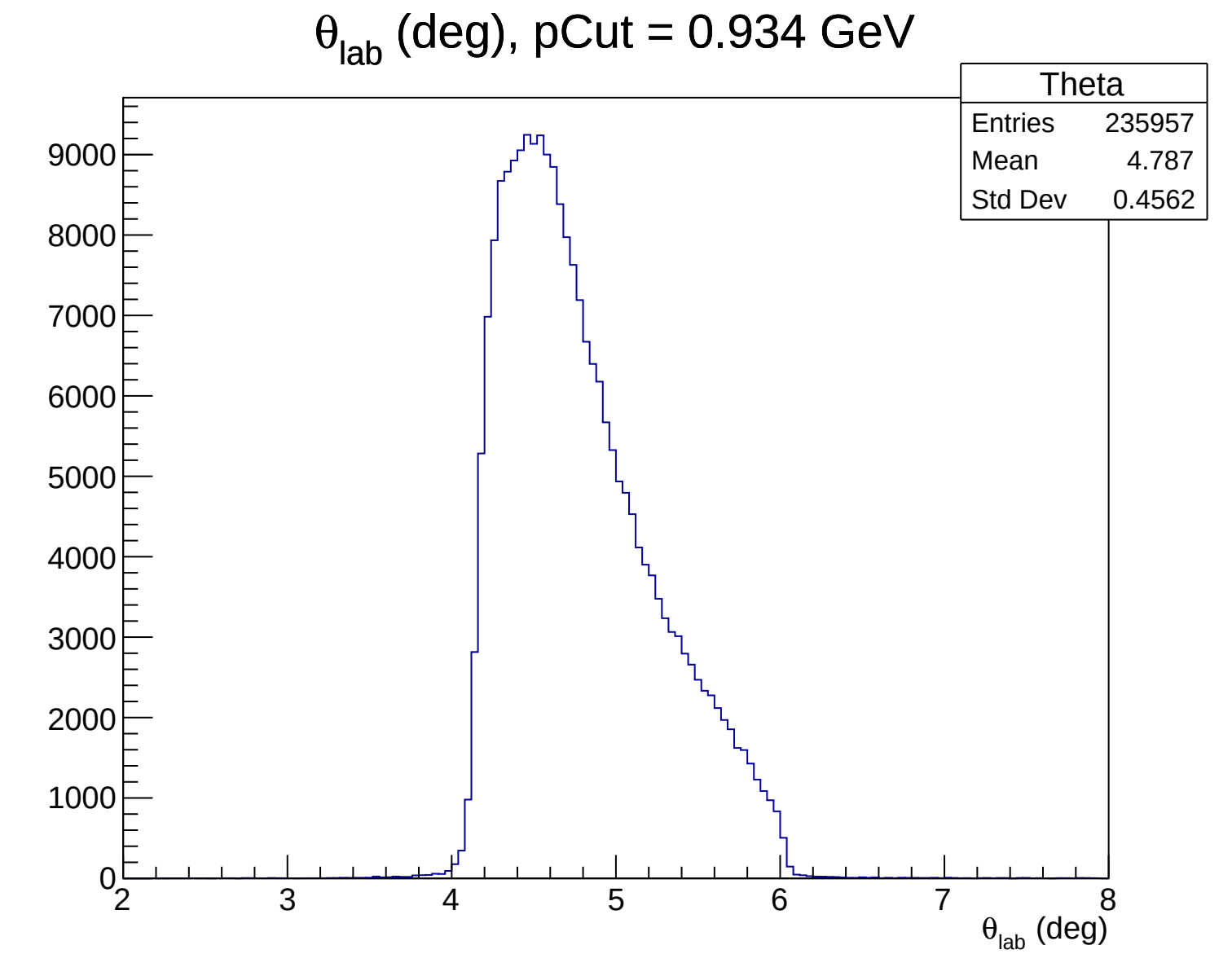

Asymmetry (ppm), pCut = 0.933 GeV
Asym
Entries 240338
Mean 0.5692
Std Dev 0.08026
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

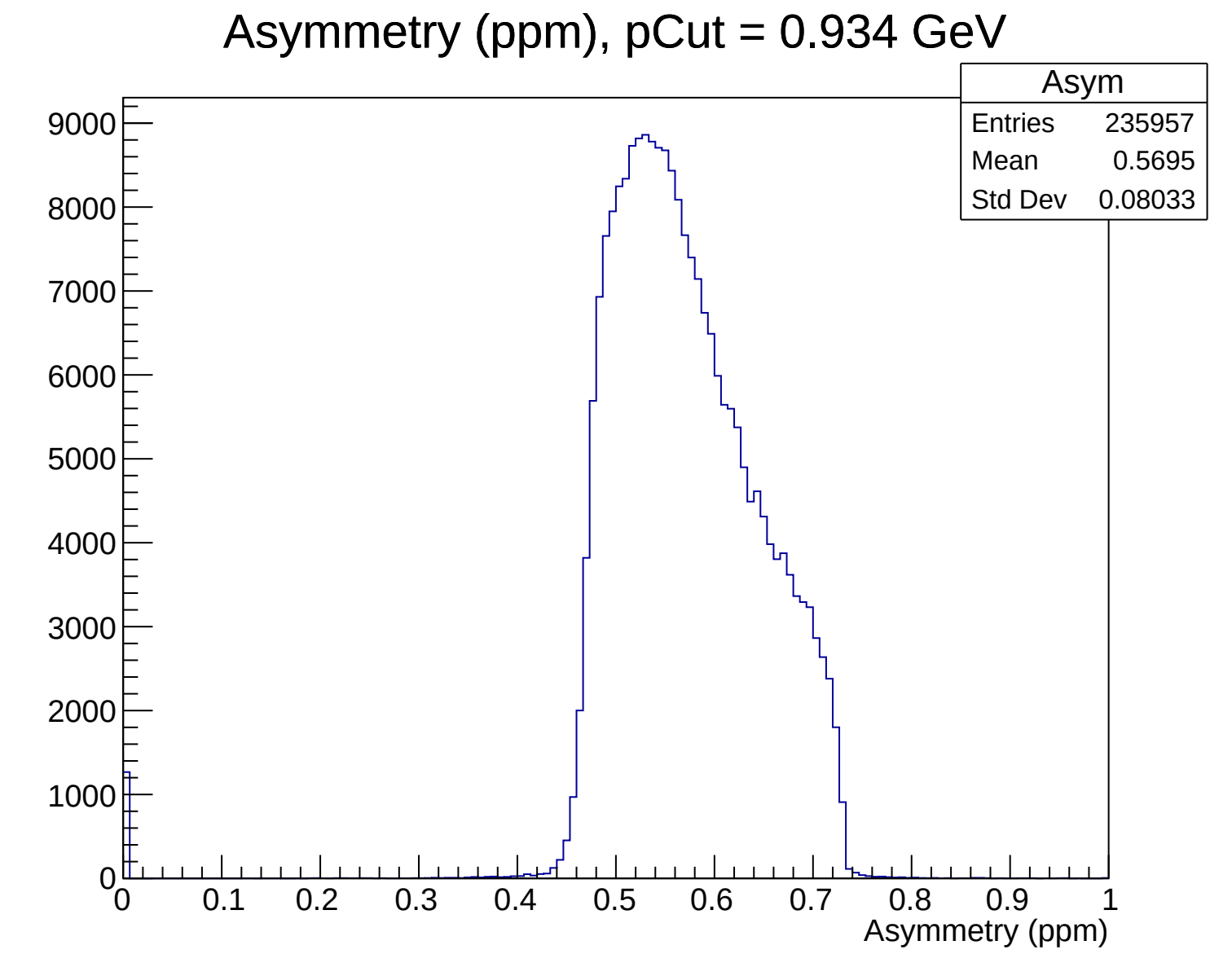

Stretched Asym. (ppm), pCut = 0.933 GeV
SAsym
Entries 240338
Mean 0.5563
Std Dev 0.07651
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

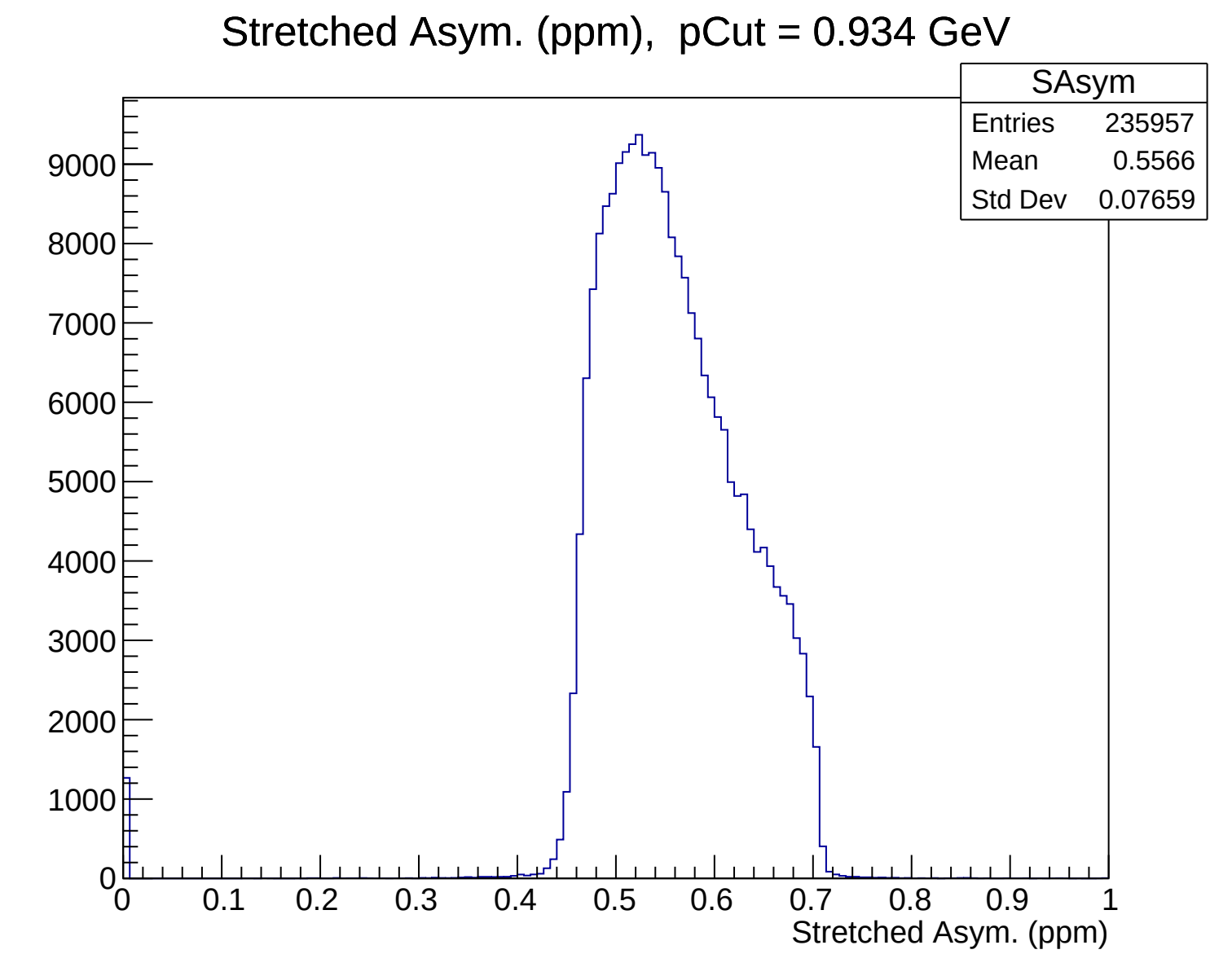

Q^2 (GeV/c)^2, pCut = 0.933 GeV
Q2
Entries 240338
Mean 0.006315
Std Dev 0.001232
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

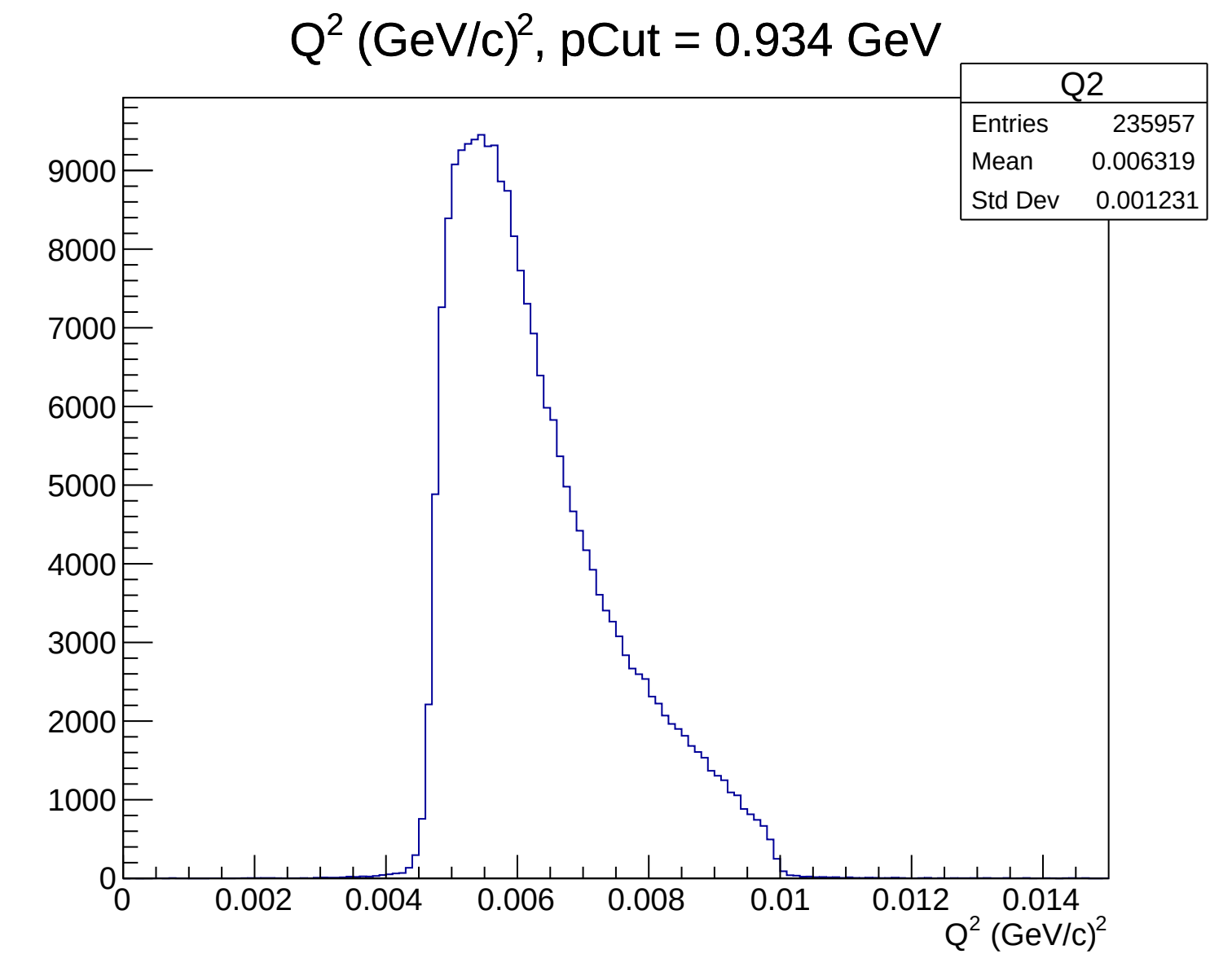

Sensitivity, pCut = 0.933 GeV
sens
Entries 240338
Mean 0.02217
Std Dev 0.00391
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

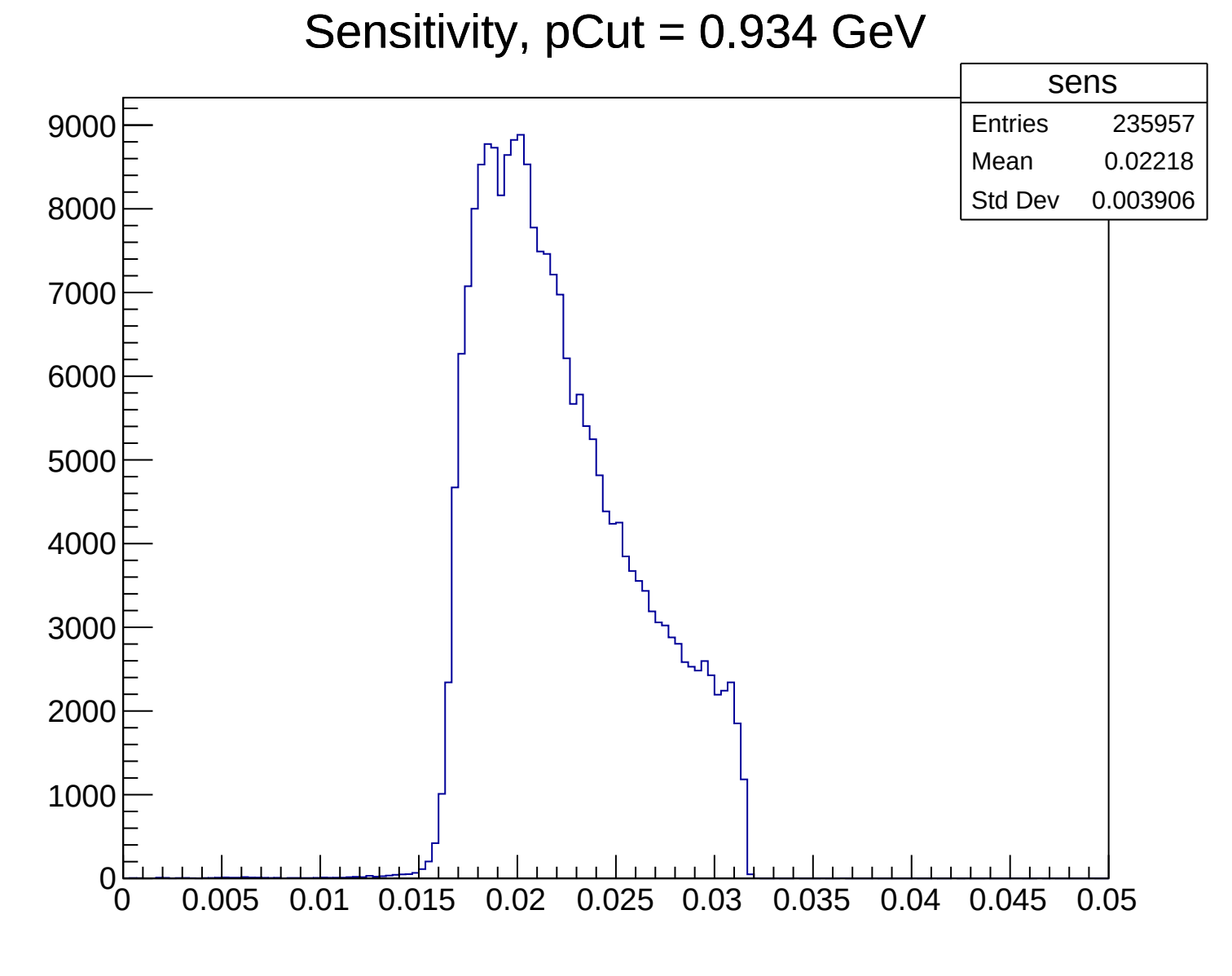

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9340 GeV
R.gold.p (GeV)

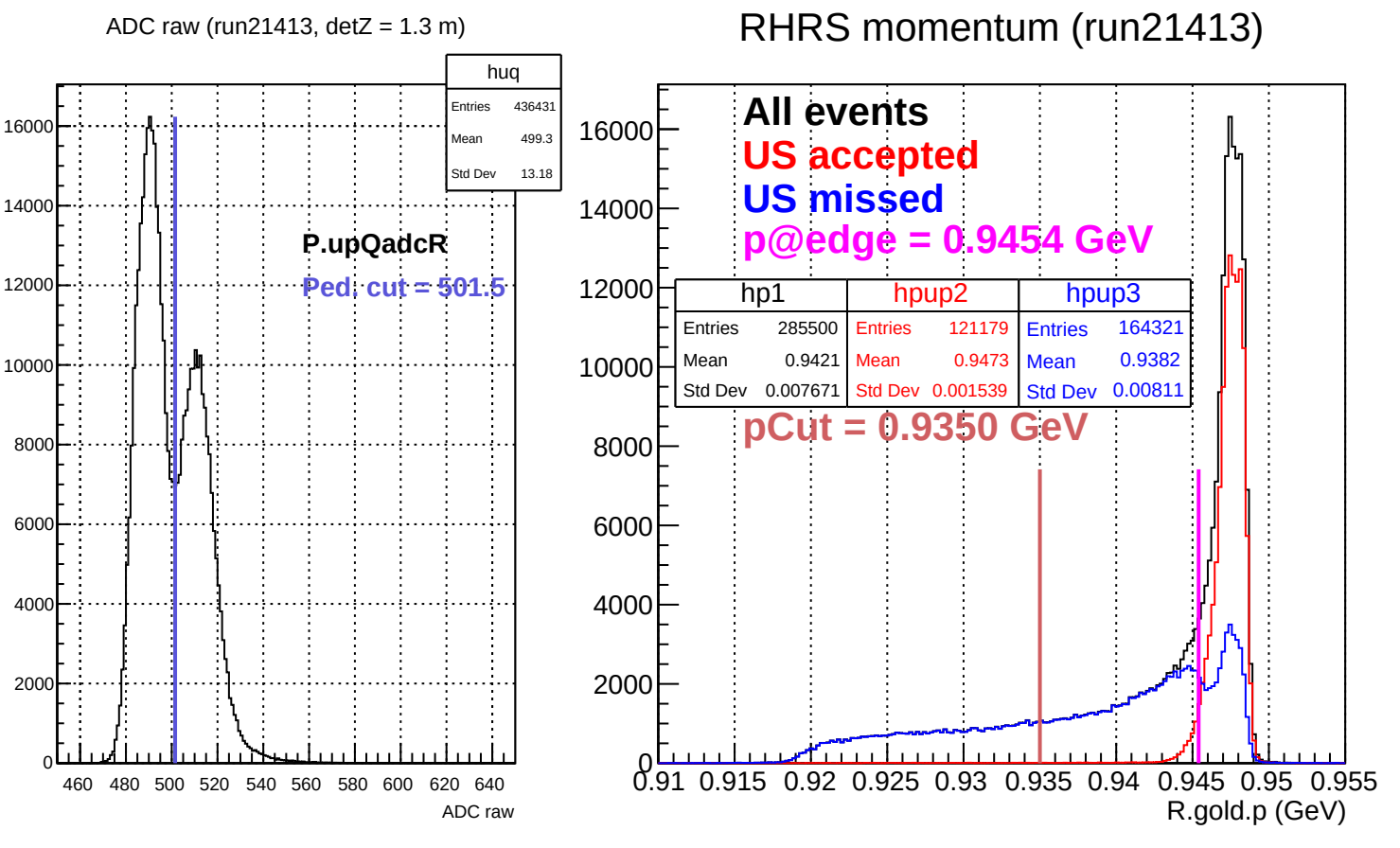

θlab (deg), pCut = 0.934 GeV
Theta
Entries 235957
Mean 4.787
Std Dev 0.4562
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

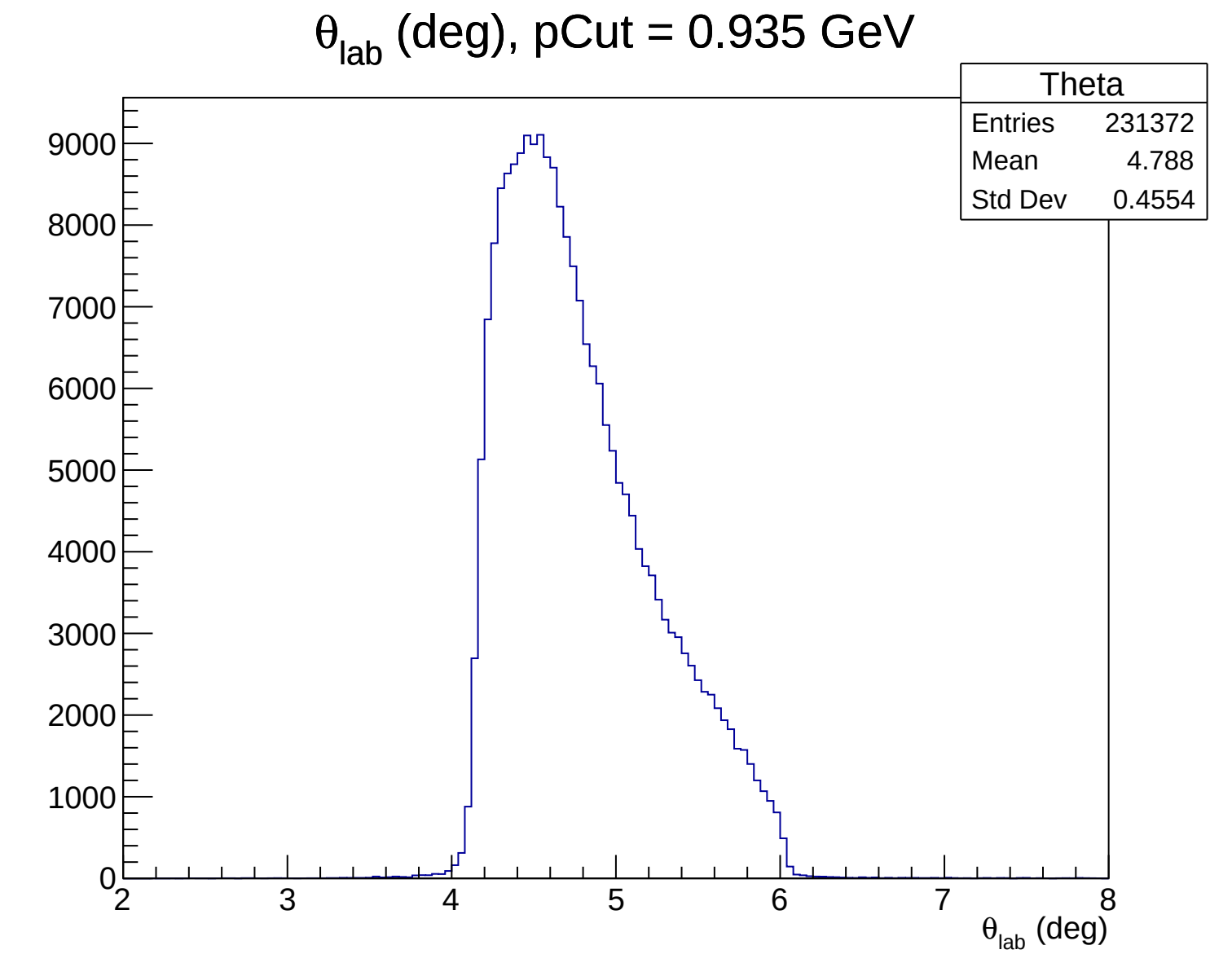

Asymmetry (ppm), pCut = 0.934 GeV
Asym
Entries 235957
Mean 0.5695
Std Dev 0.08033
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

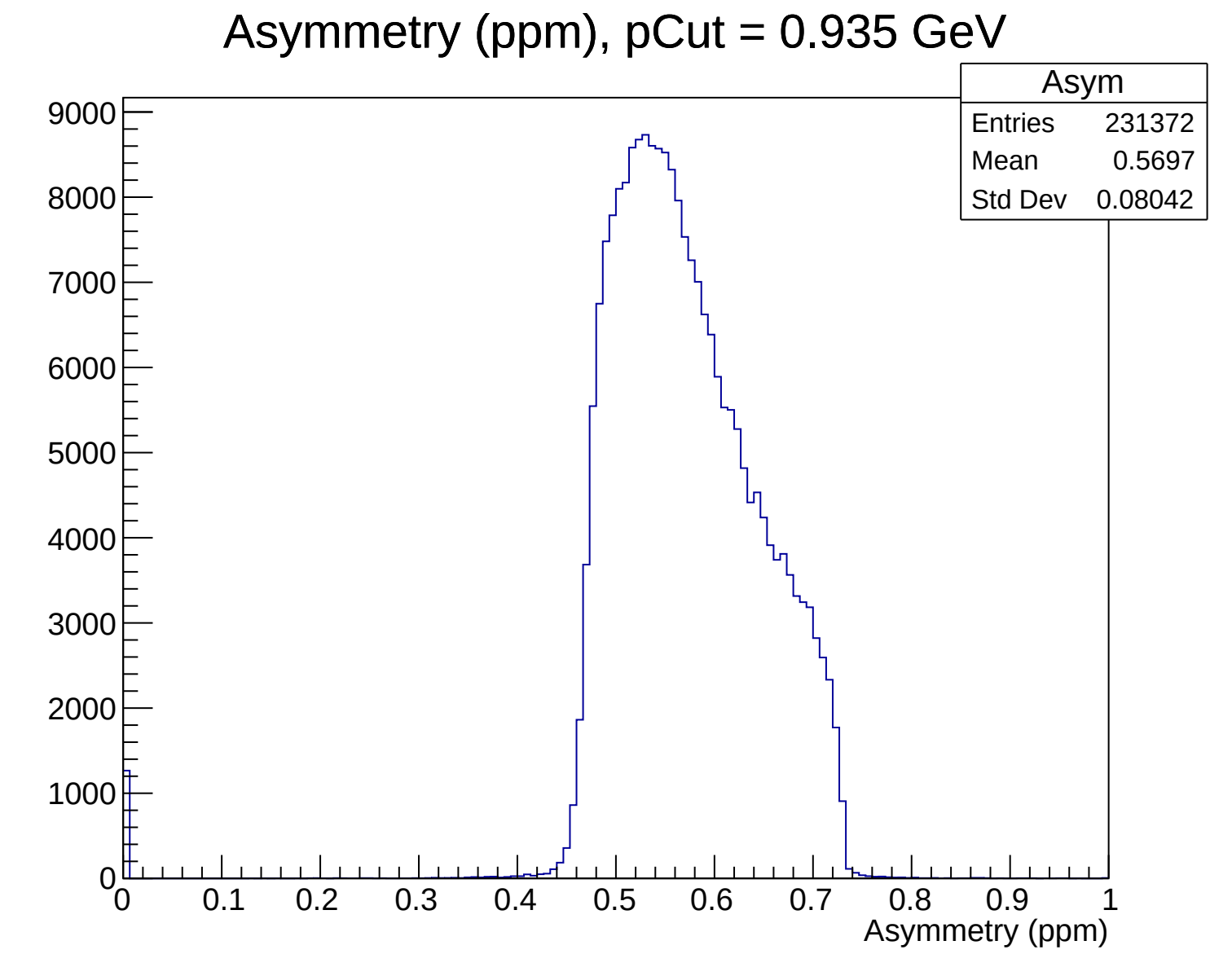

Stretched Asym. (ppm), pCut = 0.934 GeV
SAsym
Entries 235957
Mean 0.5566
Std Dev 0.07659
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

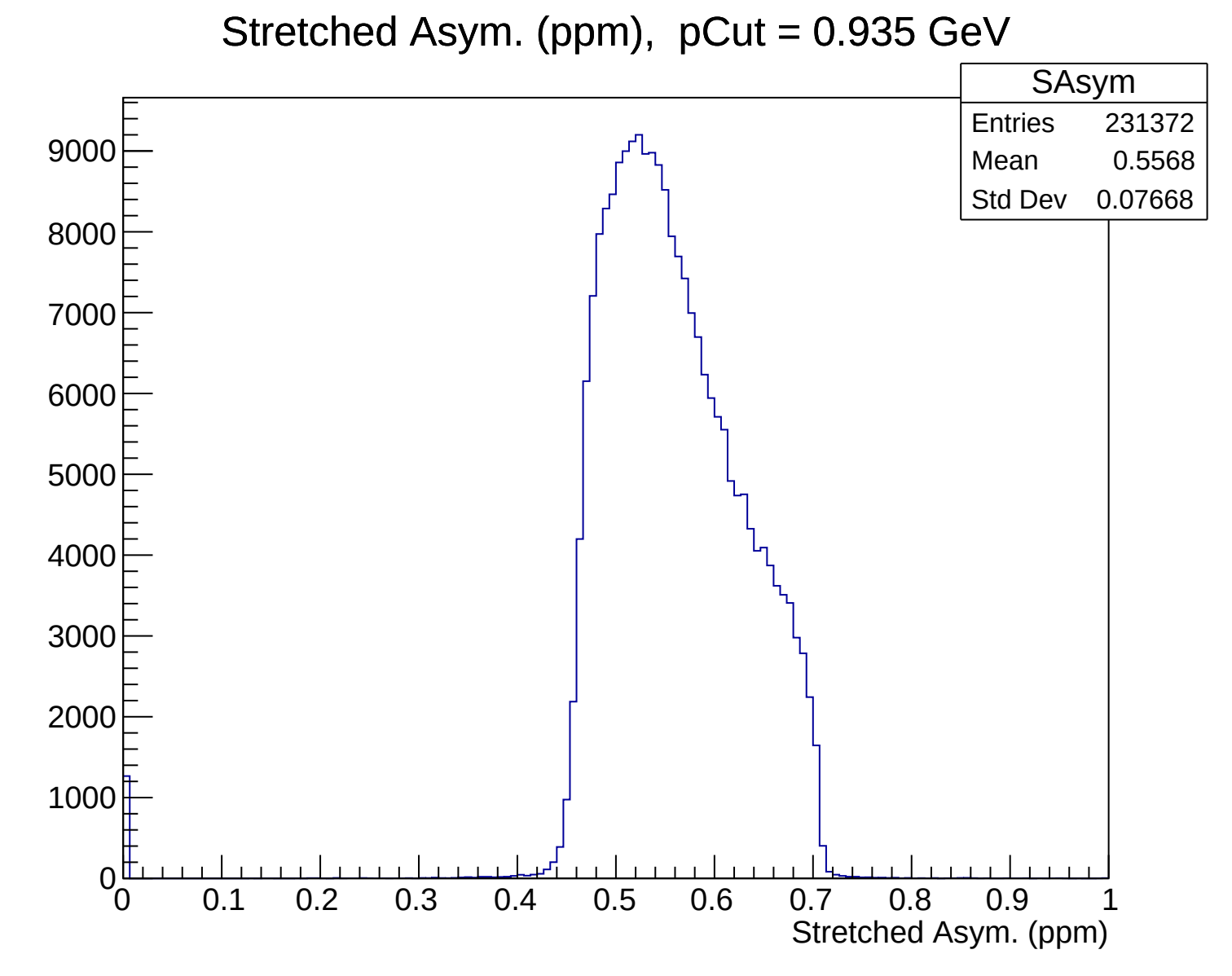

Q^2 (GeV/c)^2, pCut = 0.934 GeV
Q2
Entries 235957
Mean 0.006319
Std Dev 0.001231
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

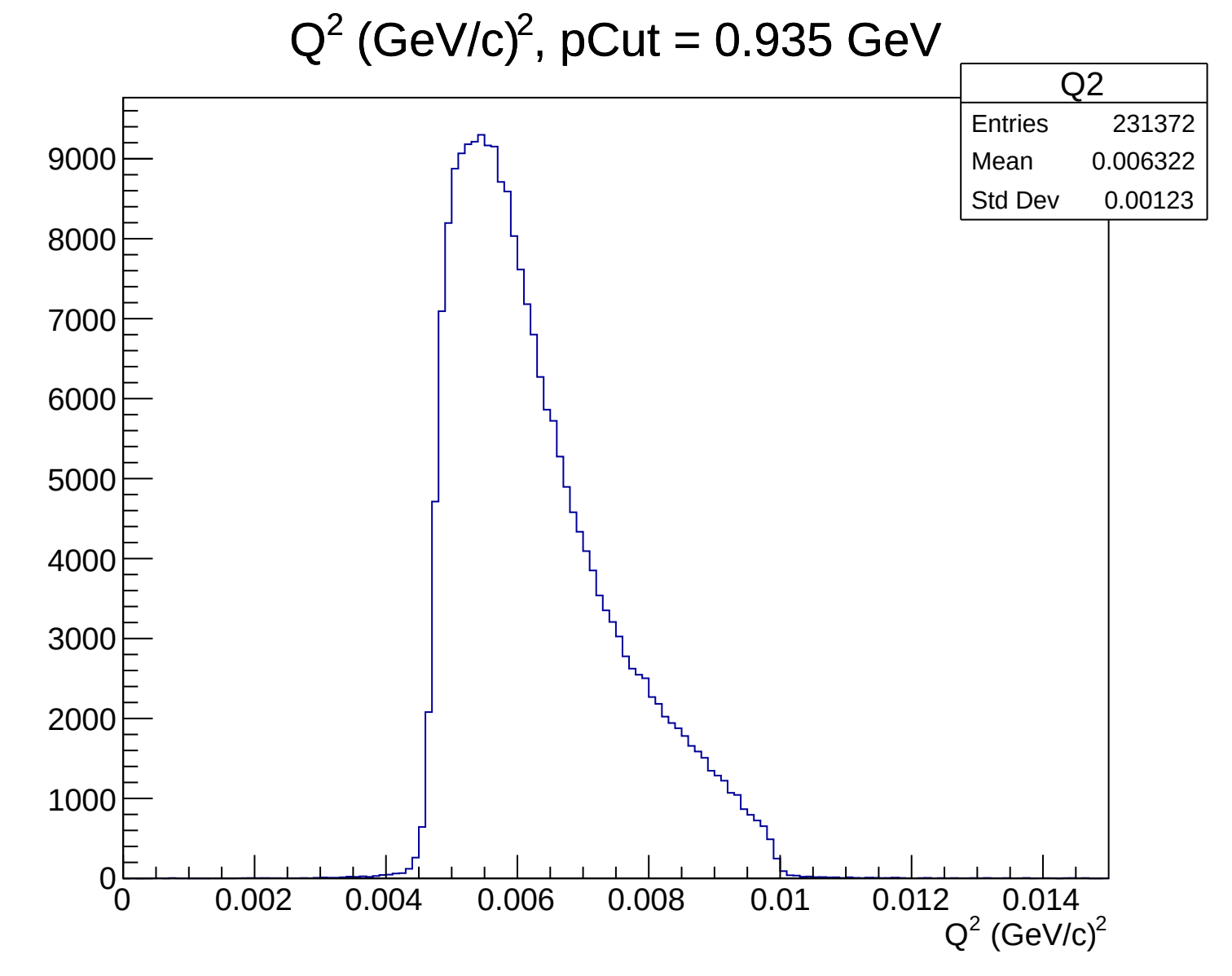

Sensitivity, pCut = 0.934 GeV
sens
Entries 235957
Mean 0.02218
Std Dev 0.003906
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

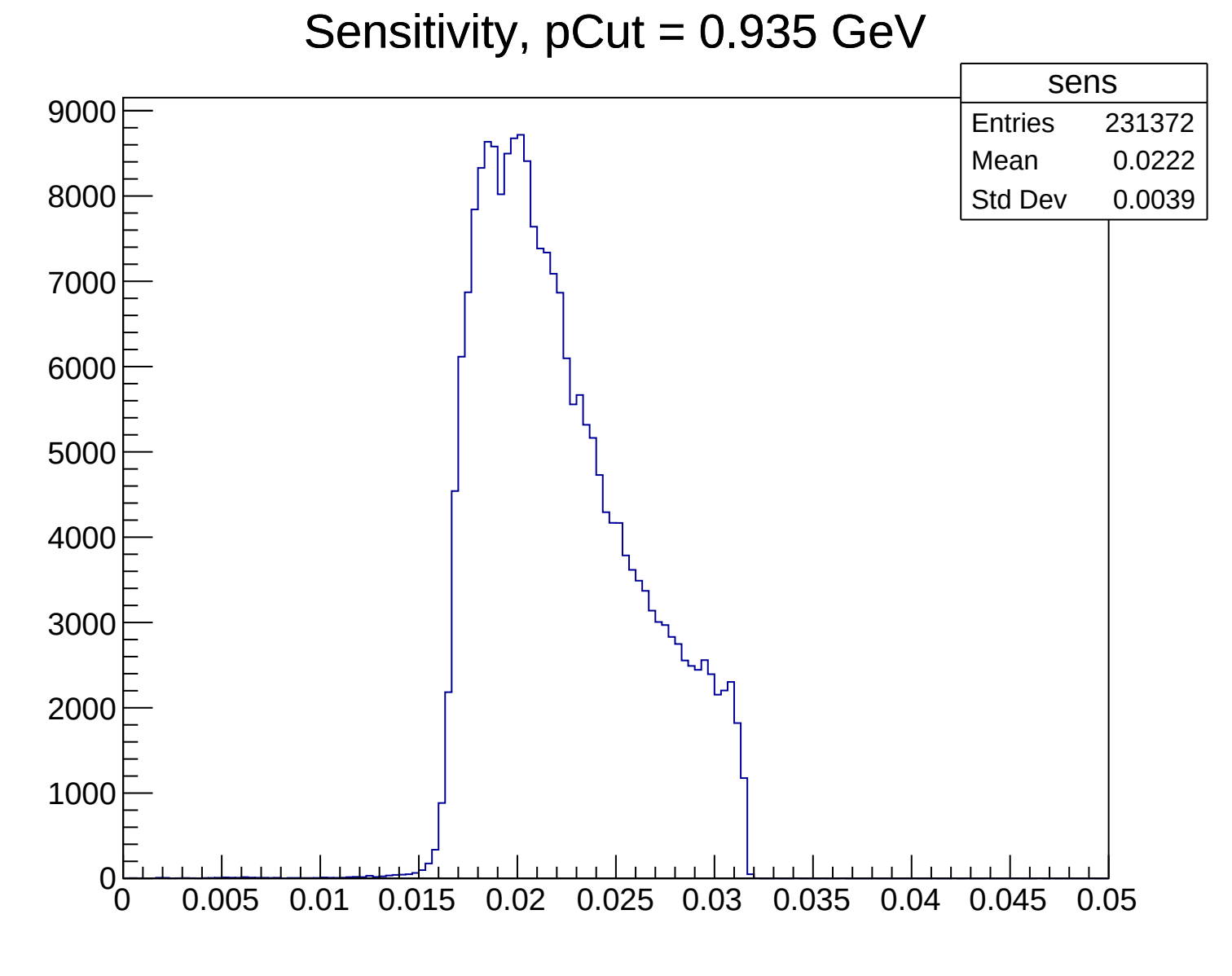

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9350 GeV
R.gold.p (GeV)

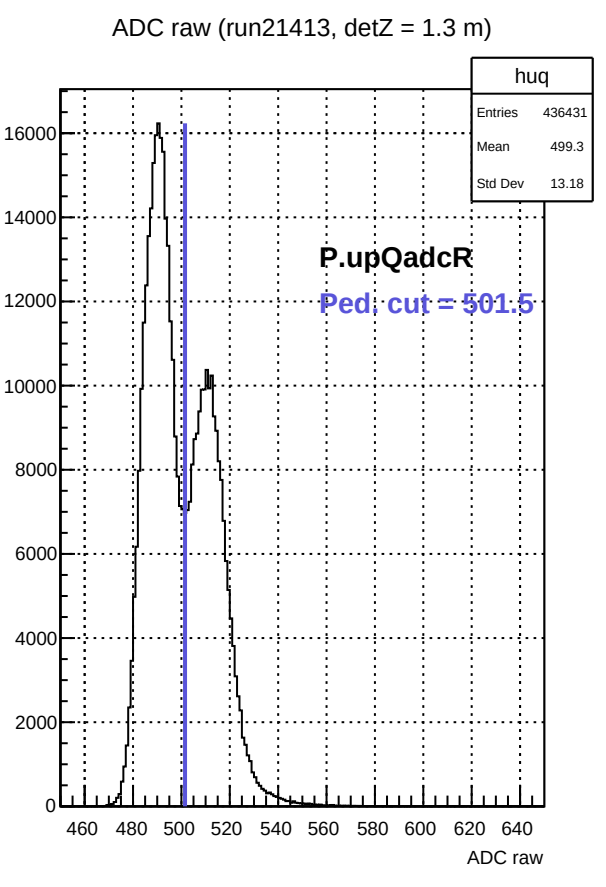

θlab (deg), pCut = 0.935 GeV
Theta
Entries 231372
Mean 4.788
Std Dev 0.4554
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

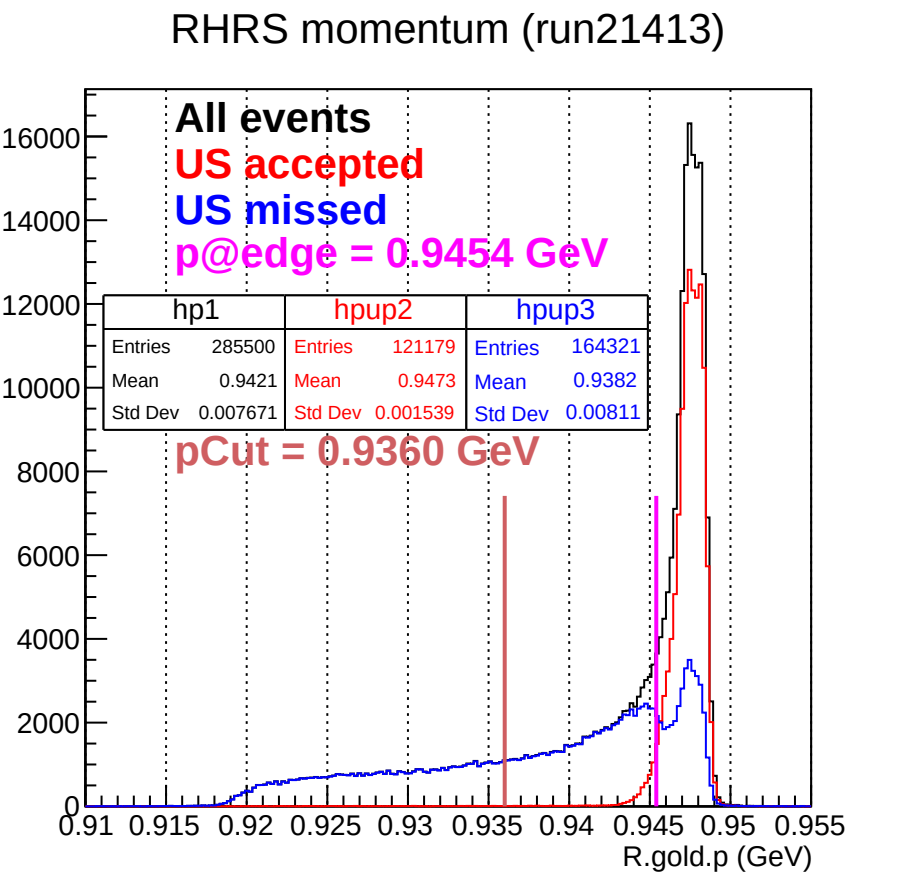

Asymmetry (ppm), pCut = 0.935 GeV
Asym
Entries 231372
Mean 0.5697
Std Dev 0.08042
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

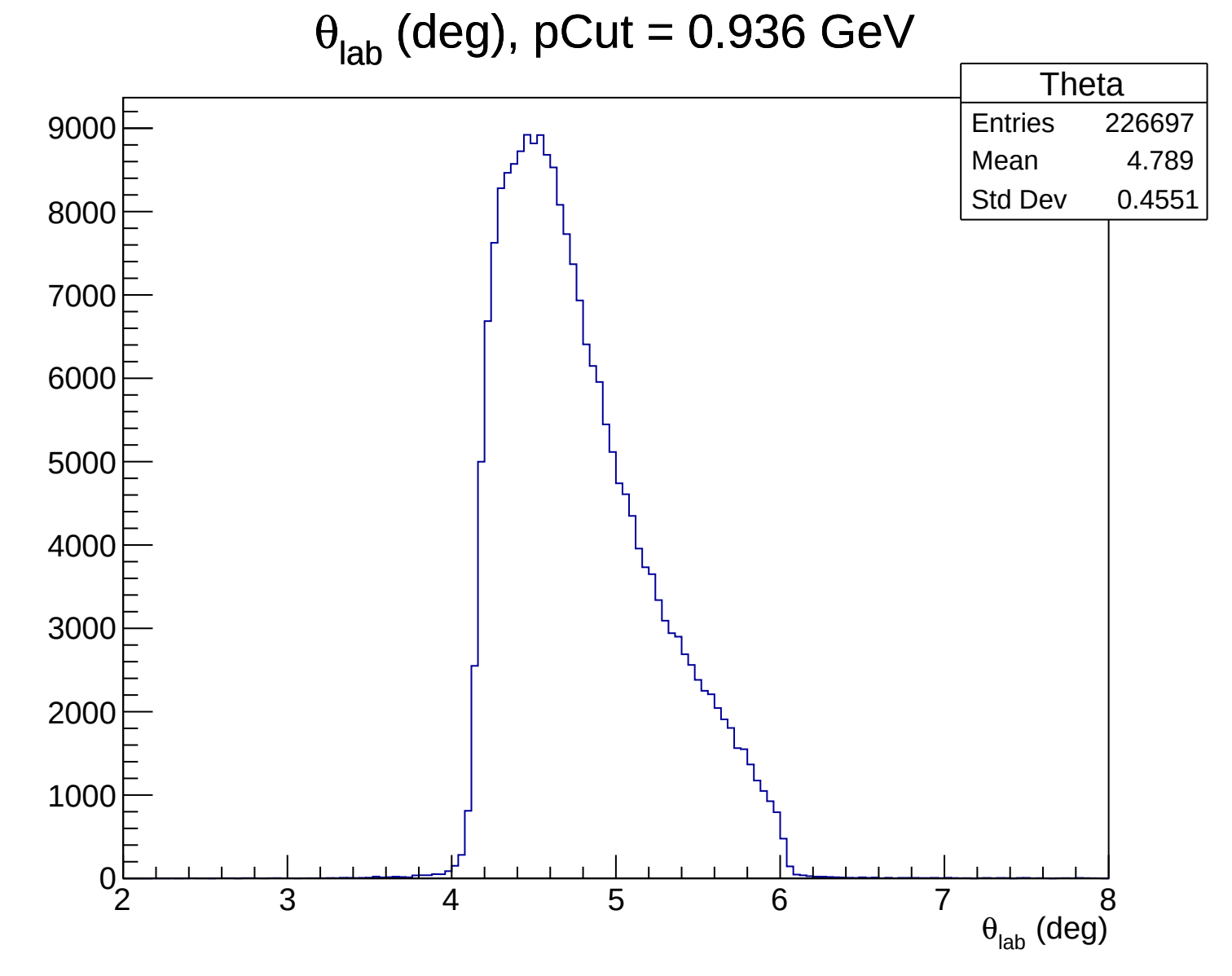

Stretched Asym. (ppm), pCut = 0.935 GeV
SAsym
Entries 231372
Mean 0.5568
Std Dev 0.07668
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

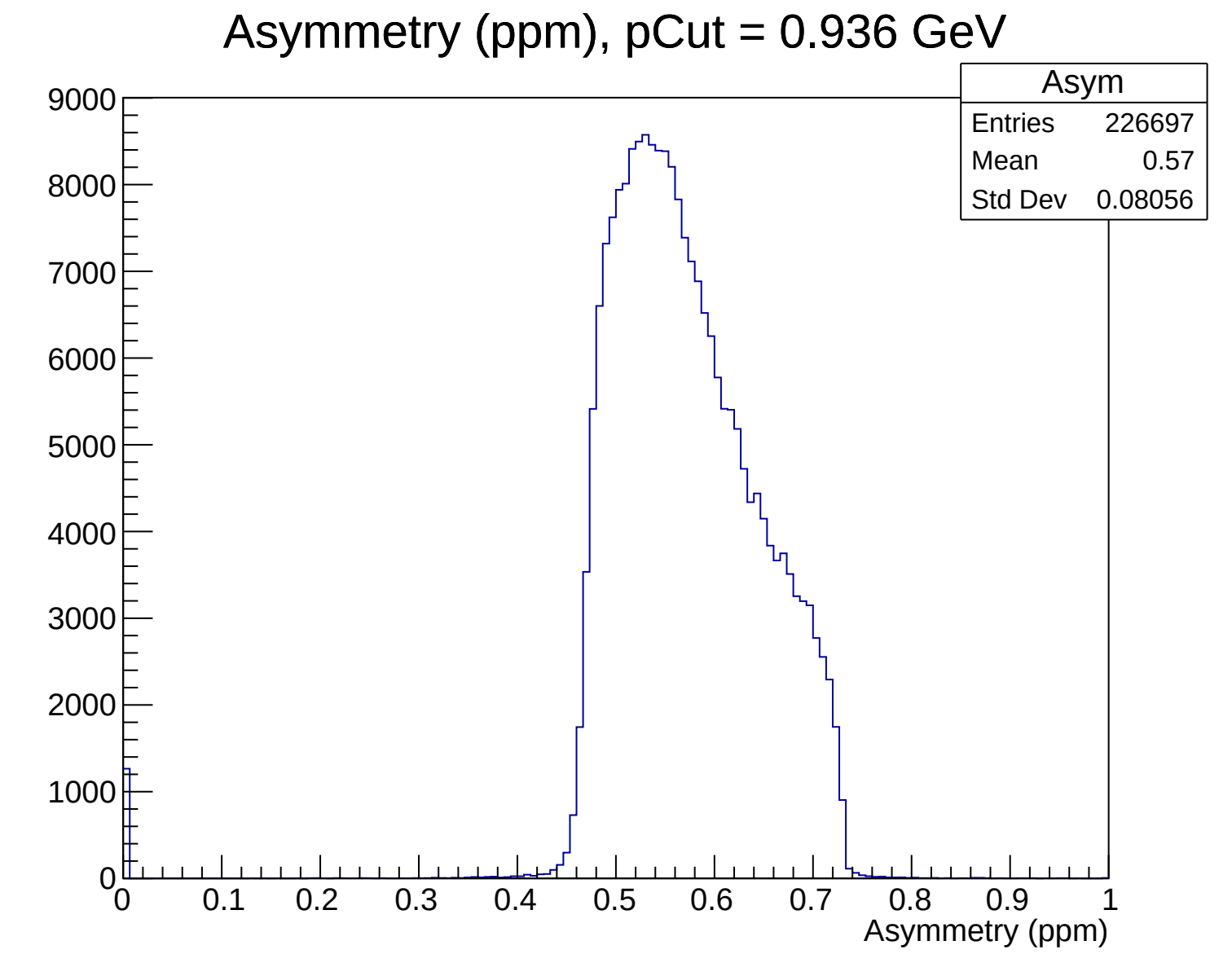

Q^2 (GeV/c)^2, pCut = 0.935 GeV
Q2
Entries 231372
Mean 0.006322
Std Dev 0.00123
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

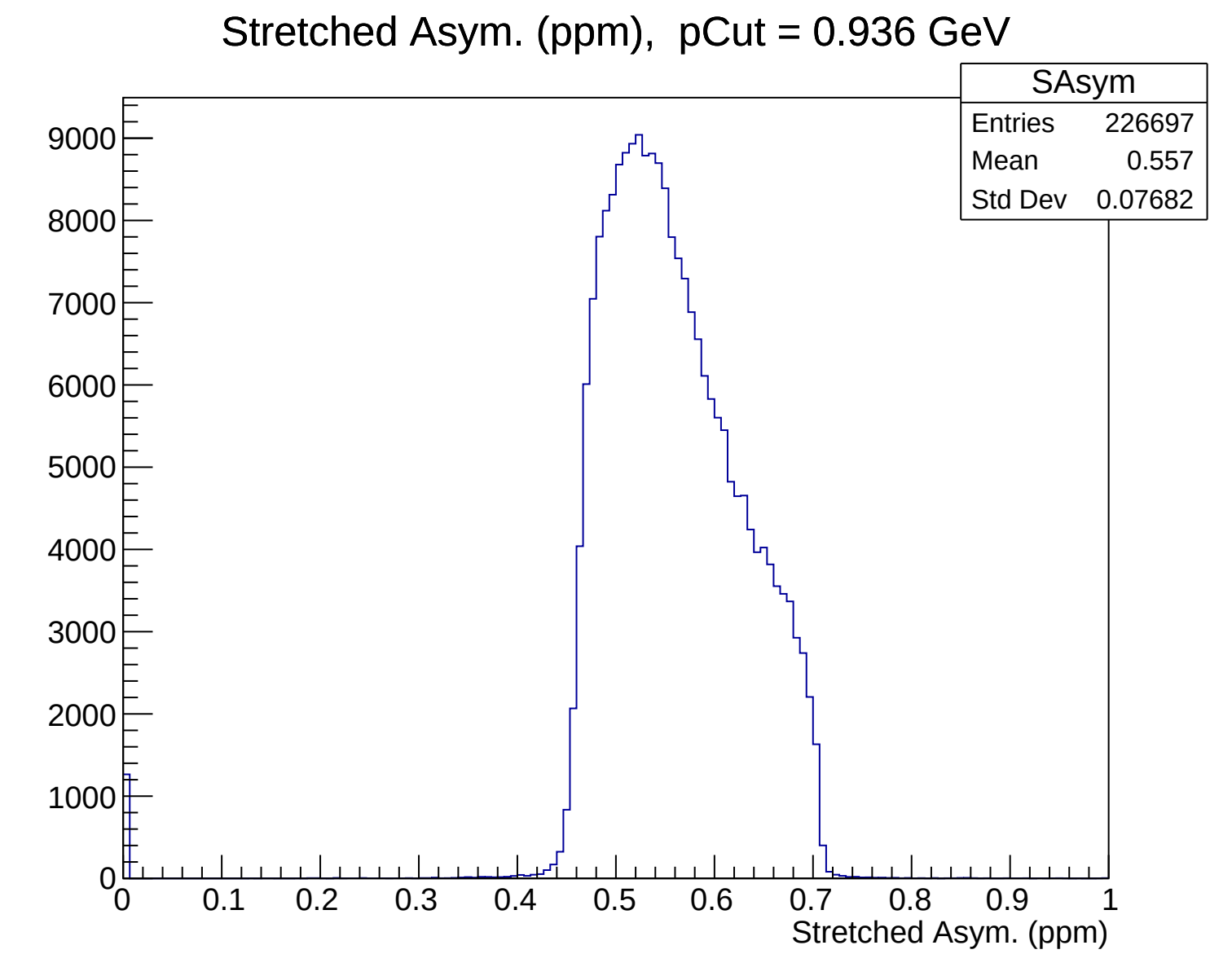

Sensitivity, pCut = 0.935 GeV
sens
Entries 231372
Mean 0.0222
Std Dev 0.0039
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

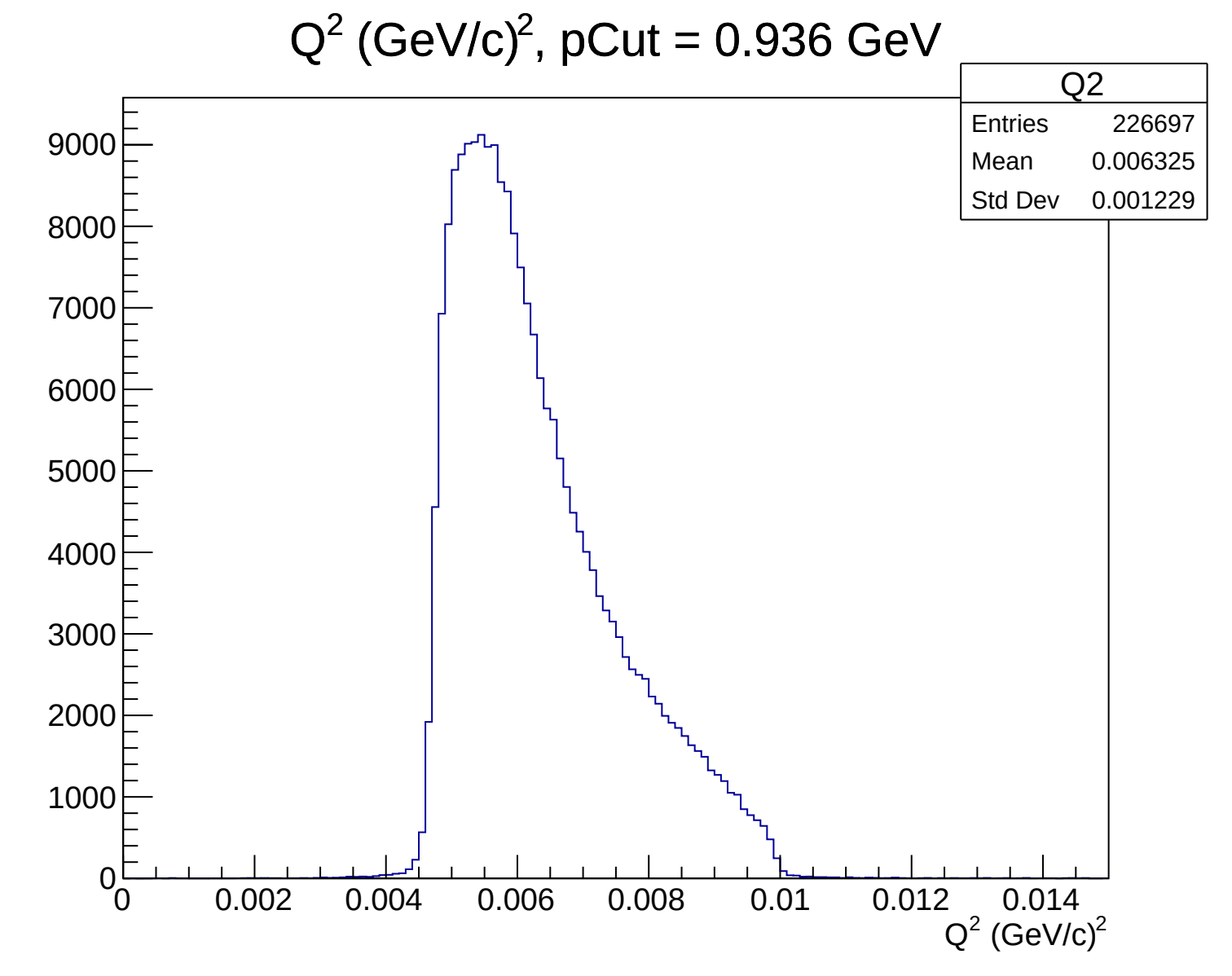

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
16000
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

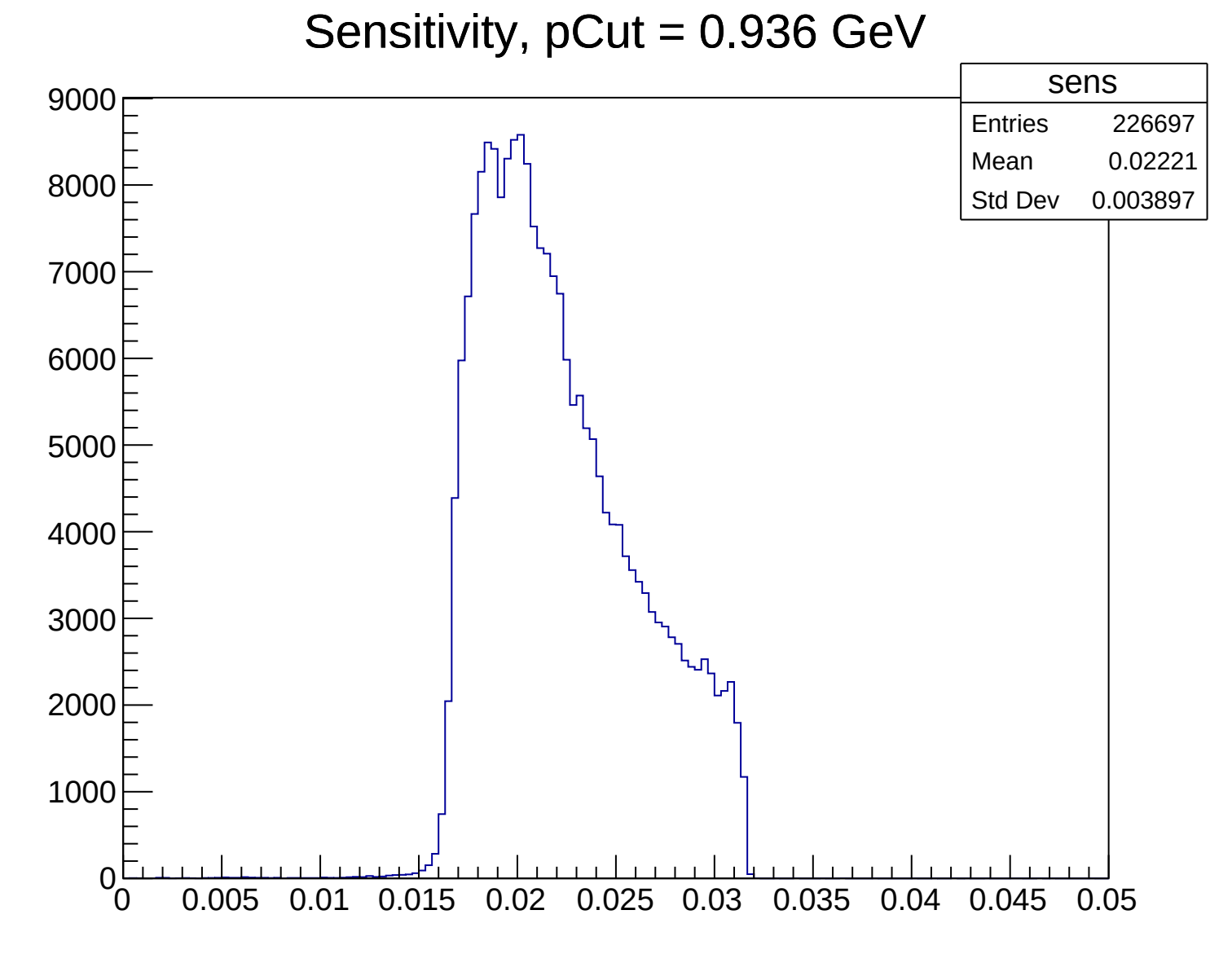

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9360 GeV
16000
14000
12000
10000
8000
6000
4000
2000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

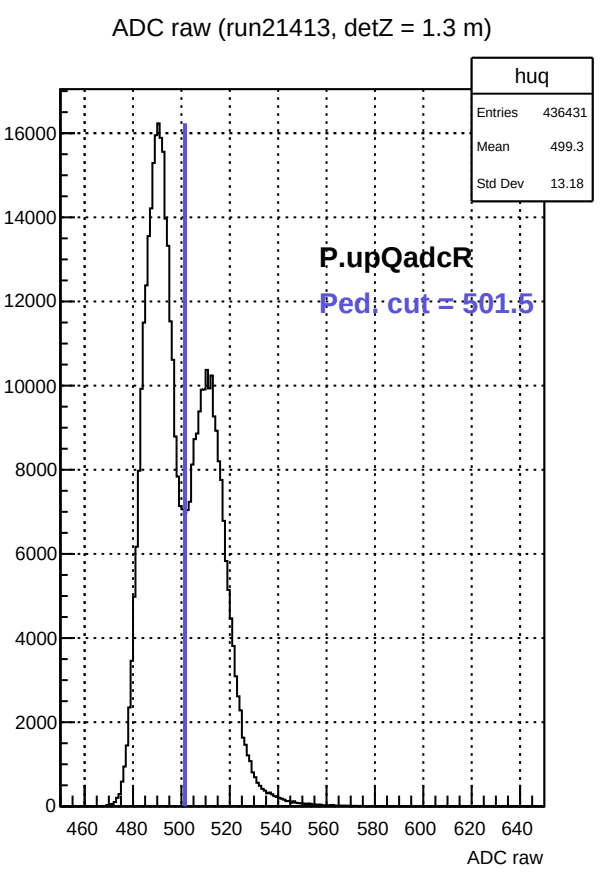

θlab (deg), pCut = 0.936 GeV
Theta
Entries 226697
Mean 4.789
Std Dev 0.4551
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

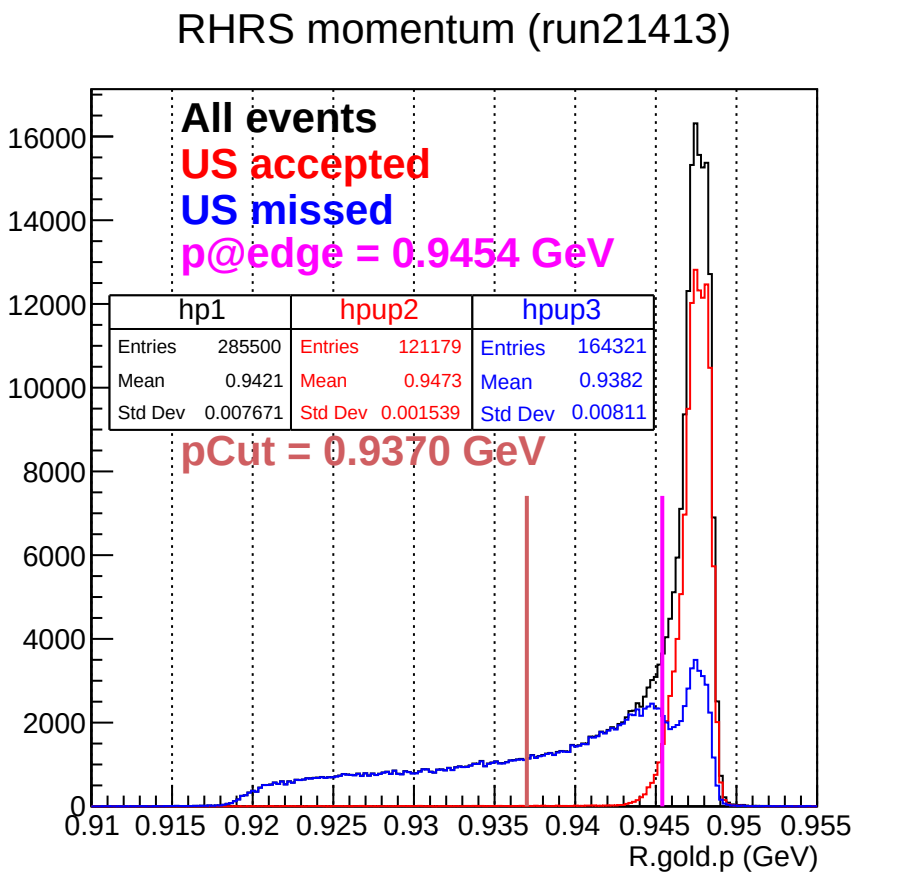

Asymmetry (ppm), pCut = 0.936 GeV
Asym
Entries 226697
Mean 0.57
Std Dev 0.08056
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

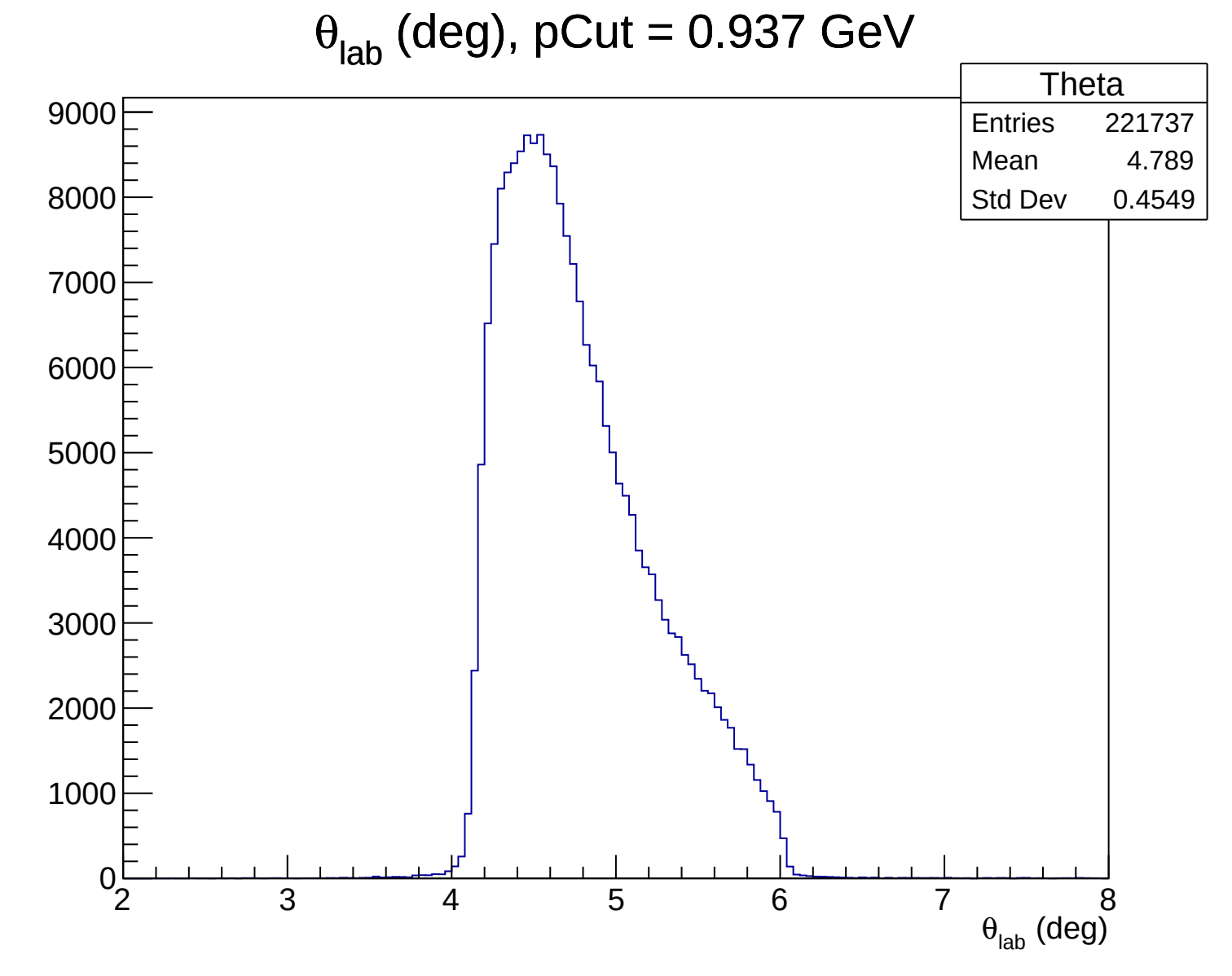

Stretched Asym. (ppm), pCut = 0.936 GeV
SAsym
Entries 226697
Mean 0.557
Std Dev 0.07682
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

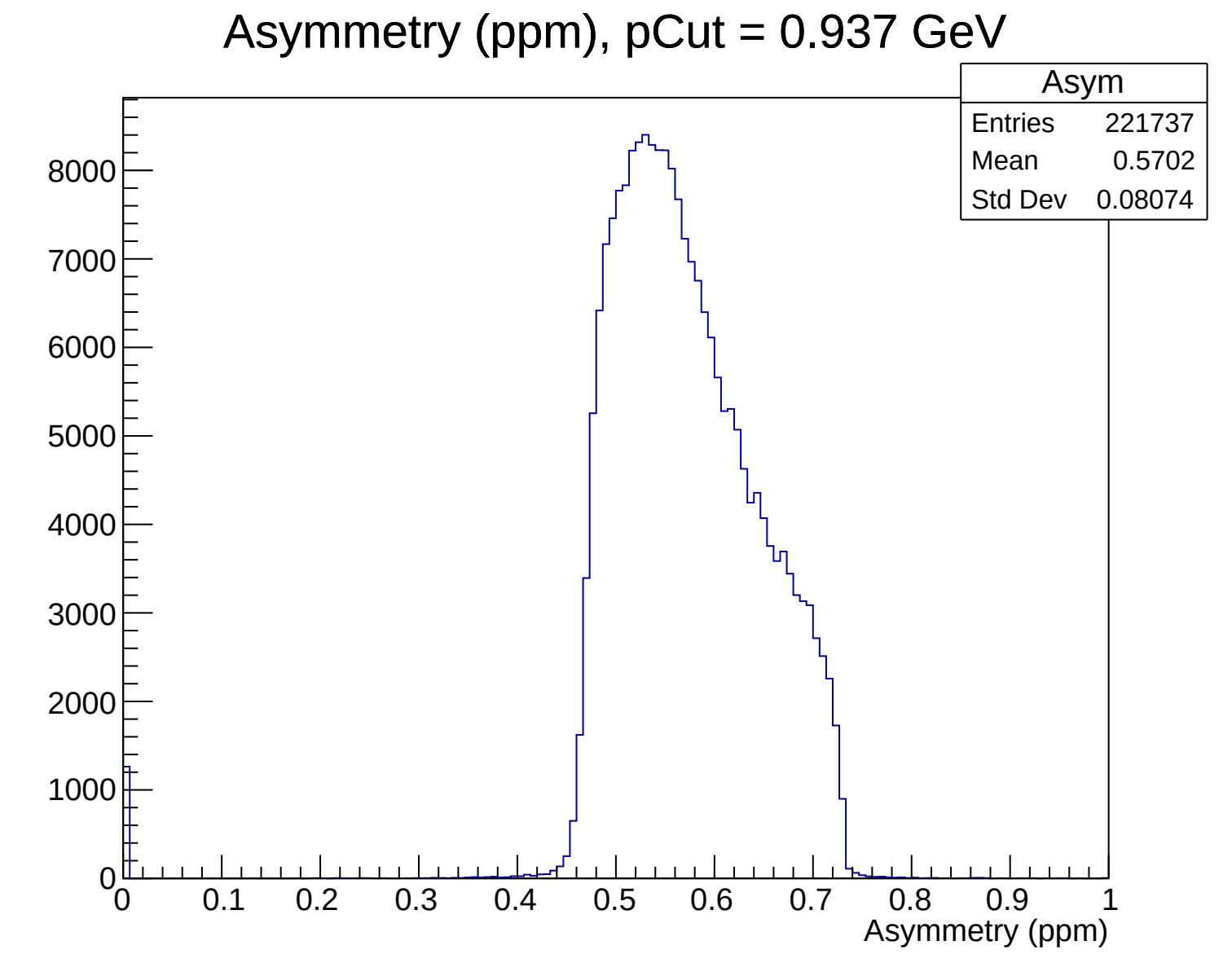

Q^2 (GeV/c)^2, pCut = 0.936 GeV
Q2
Entries 226697
Mean 0.006325
Std Dev 0.001229
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

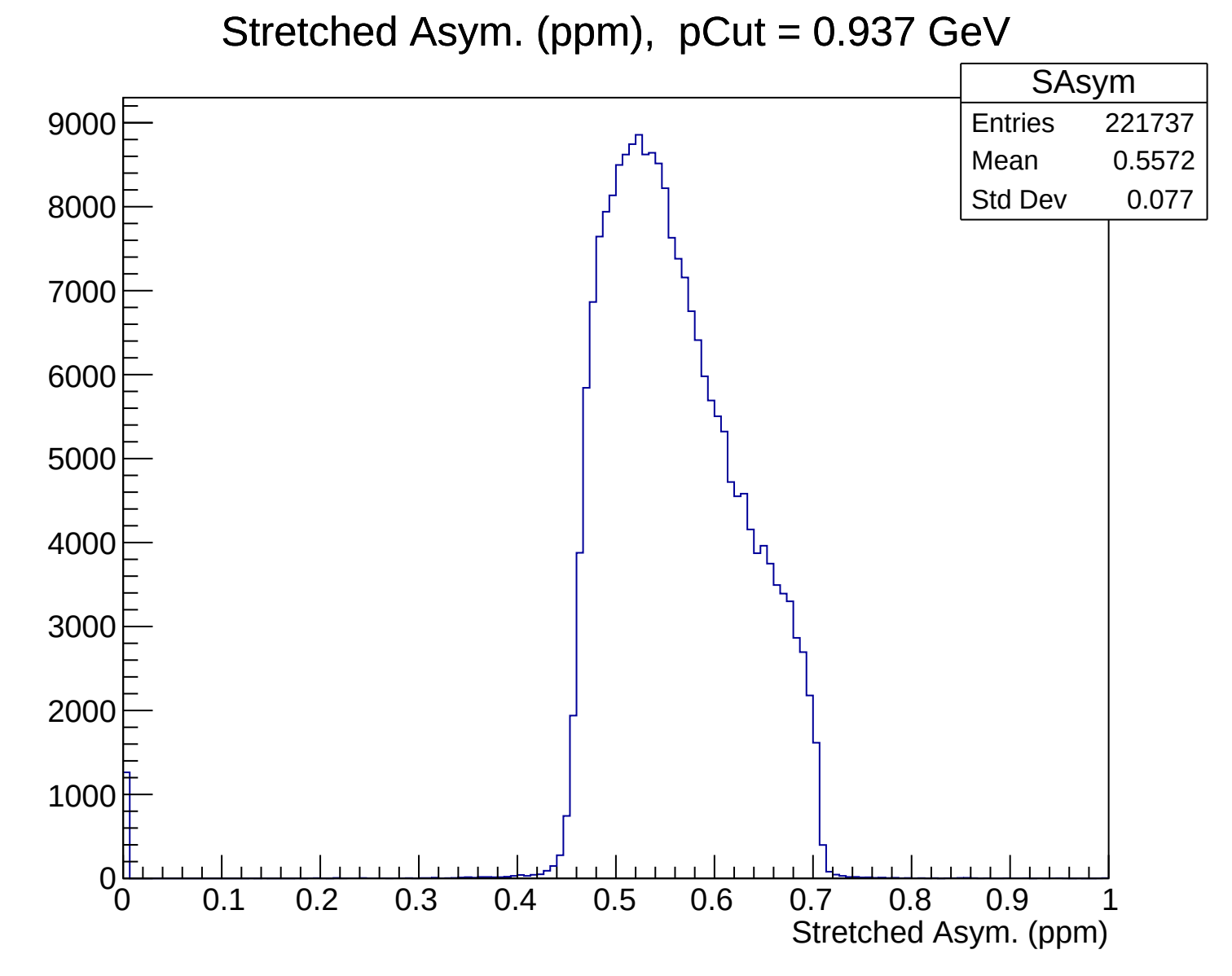

Sensitivity, pCut = 0.936 GeV
sens
Entries 226697
Mean 0.02221
Std Dev 0.003897
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

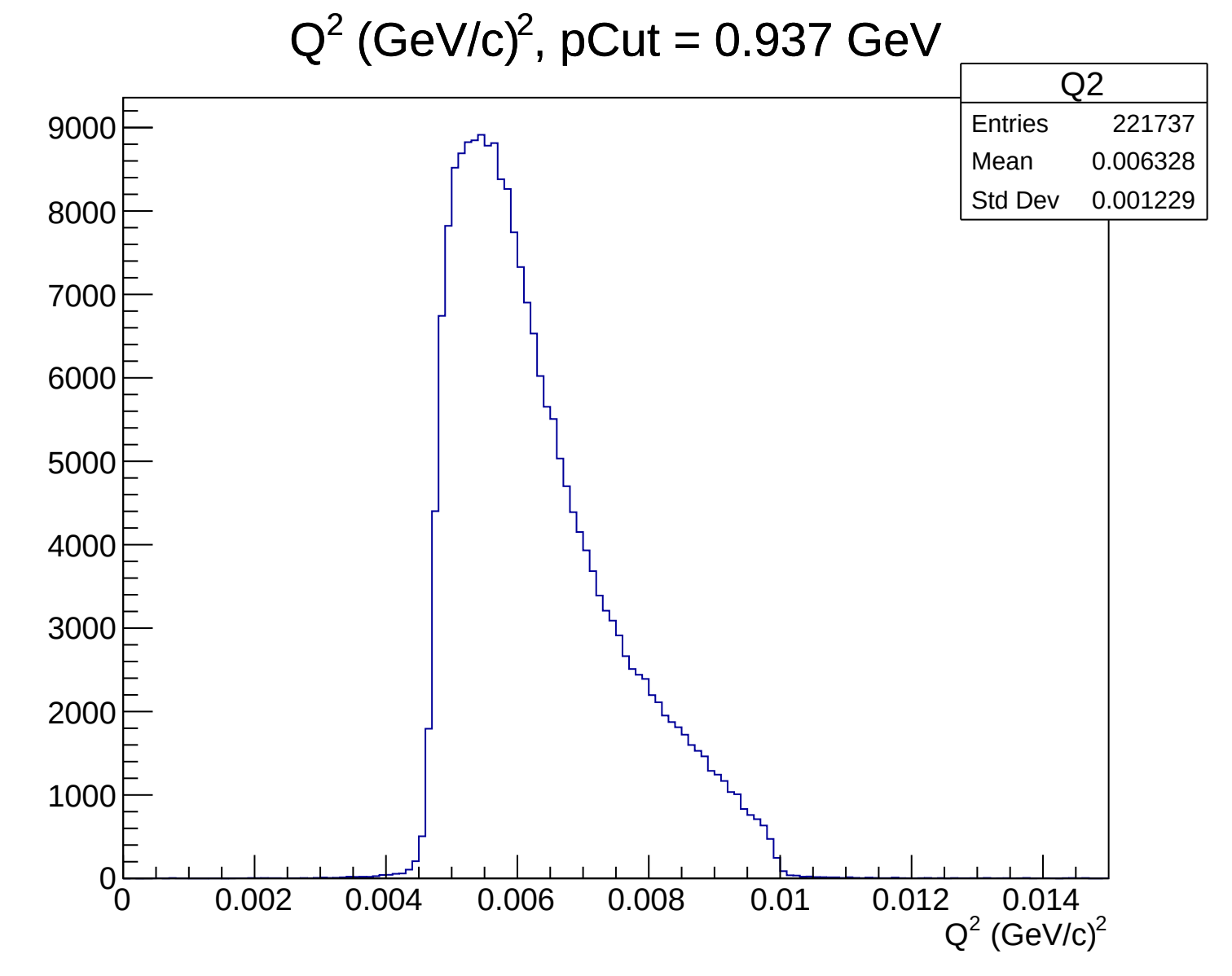

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
16000
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

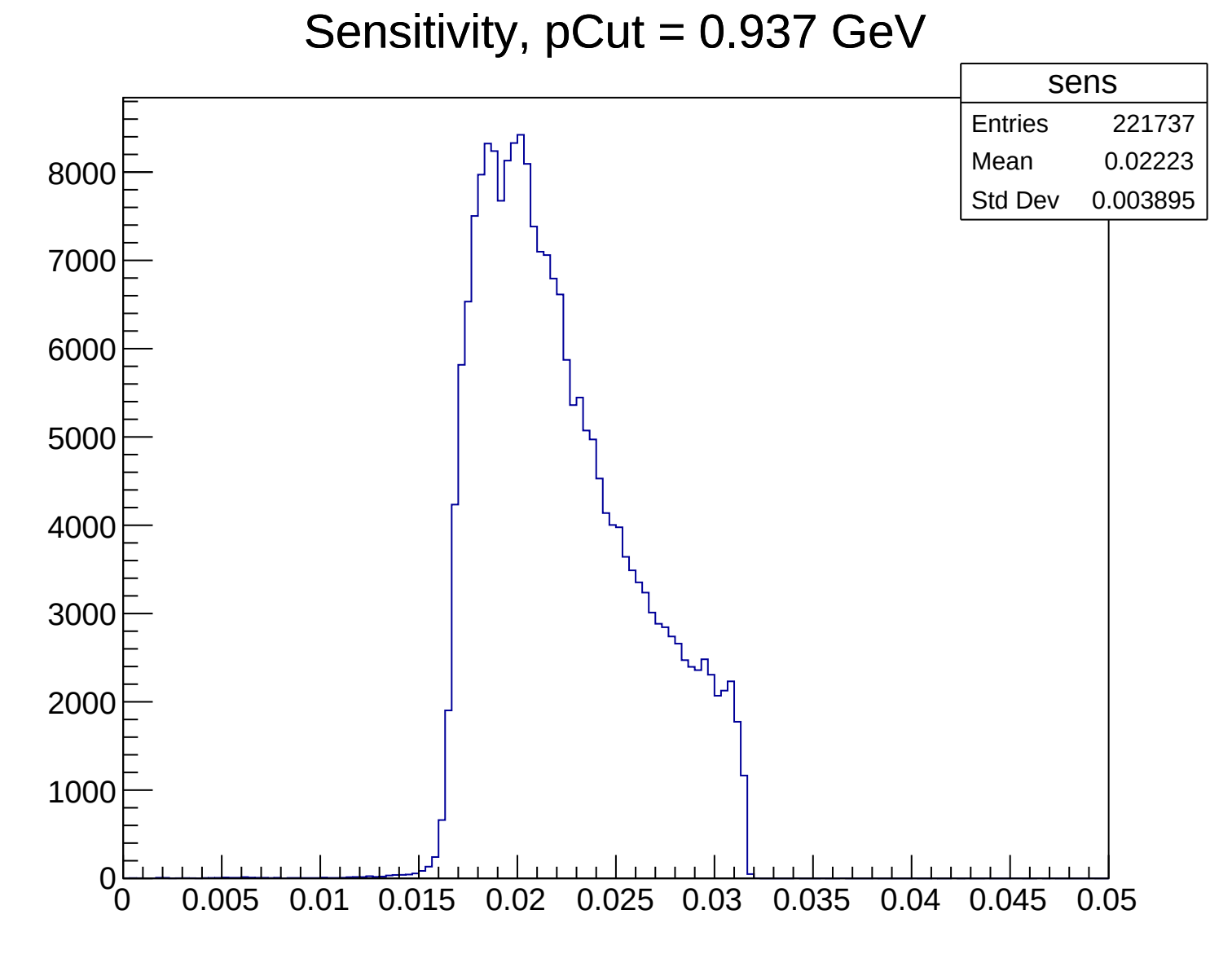

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9370 GeV
16000
14000
12000
10000
8000
6000
4000
2000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

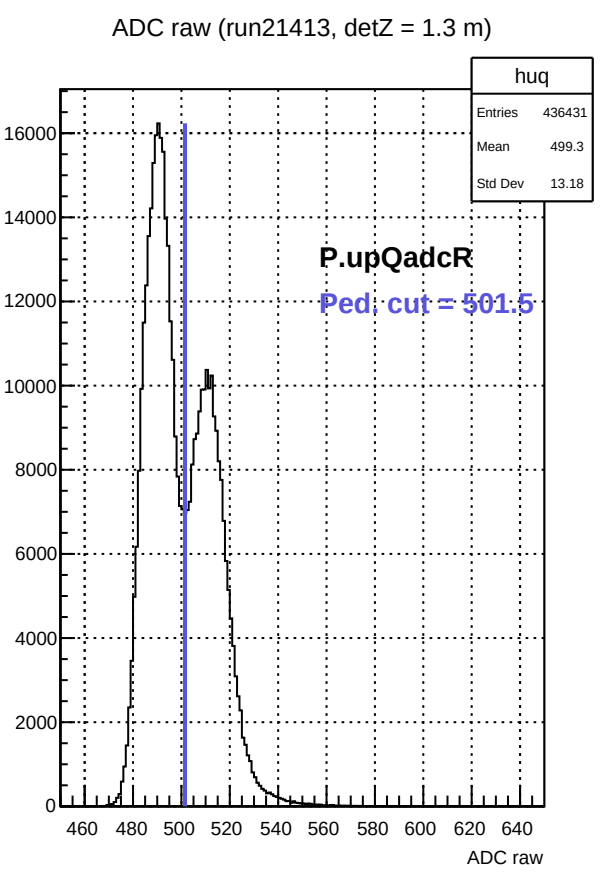

θlab (deg), pCut = 0.937 GeV
Theta
Entries 221737
Mean 4.789
Std Dev 0.4549
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

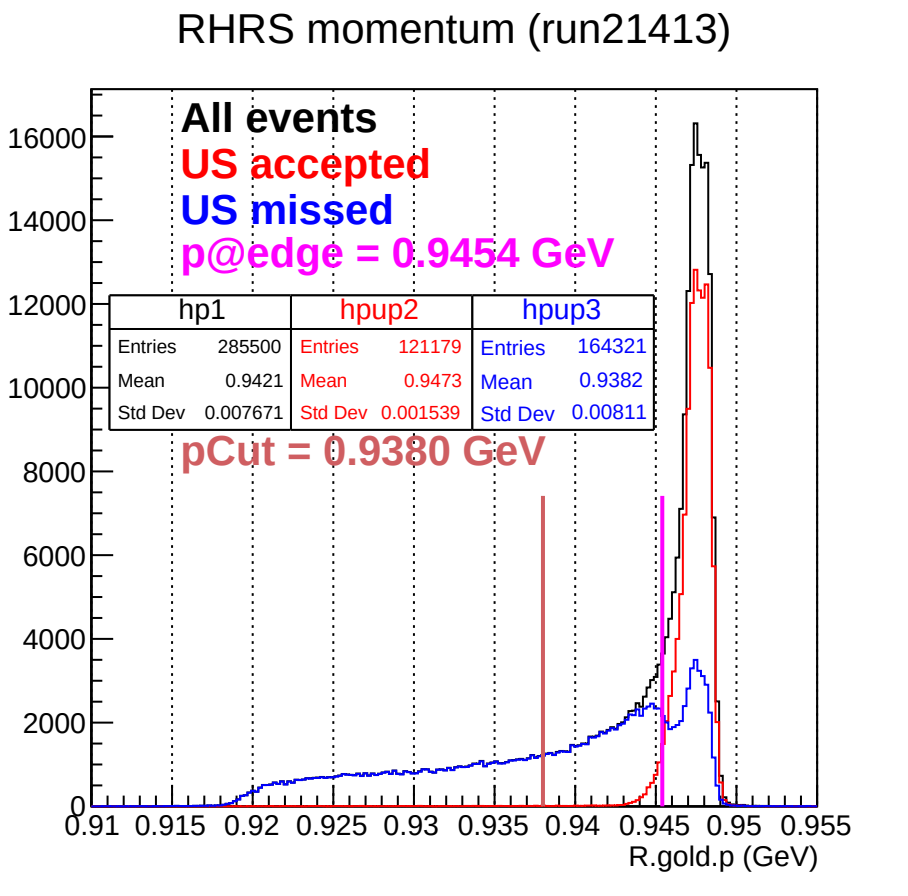

Asymmetry (ppm), pCut = 0.937 GeV
Asym
Entries 221737
Mean 0.5702
Std Dev 0.08074
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

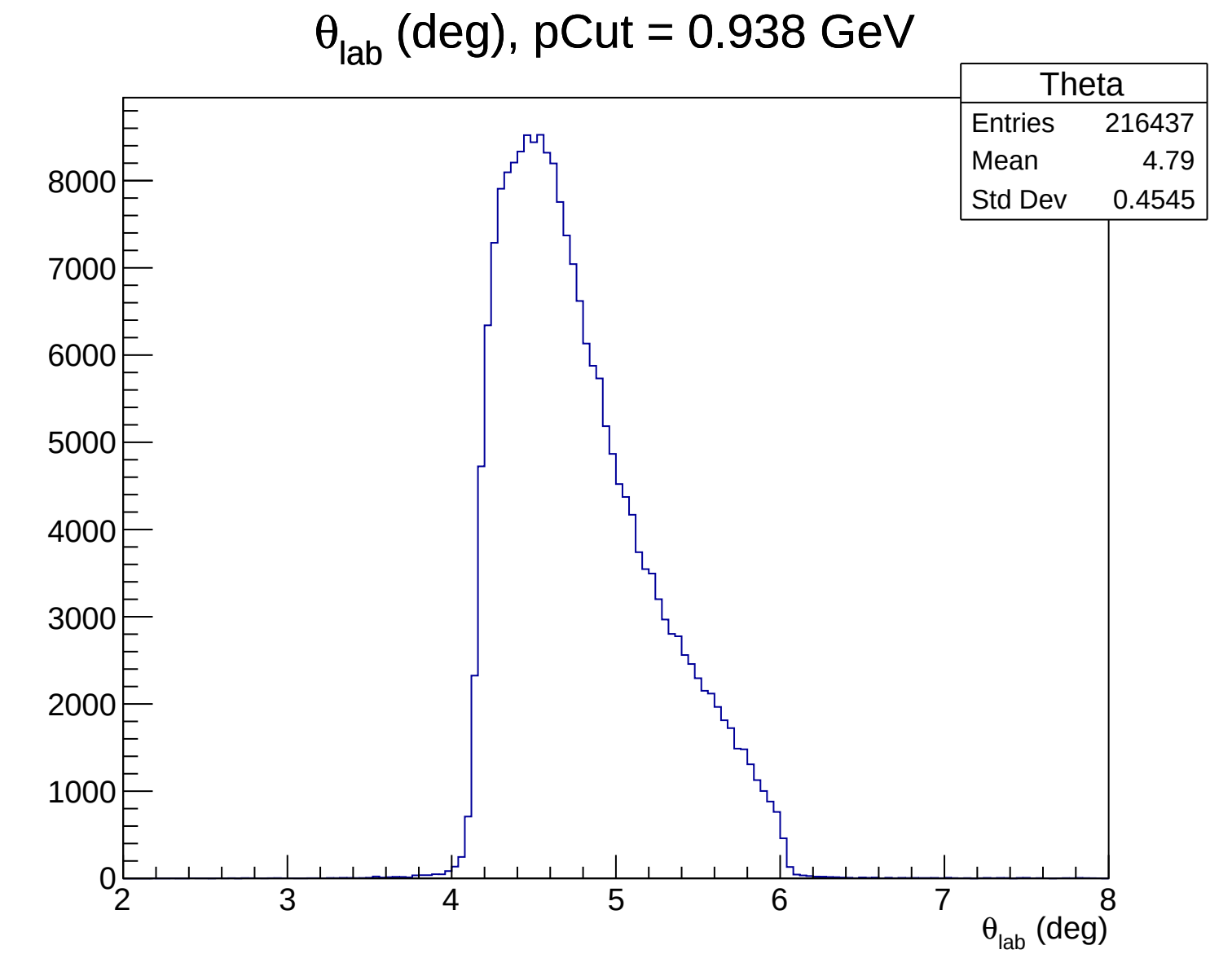

Stretched Asym. (ppm), pCut = 0.937 GeV
SAsym
Entries 221737
Mean 0.5572
Std Dev 0.077
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

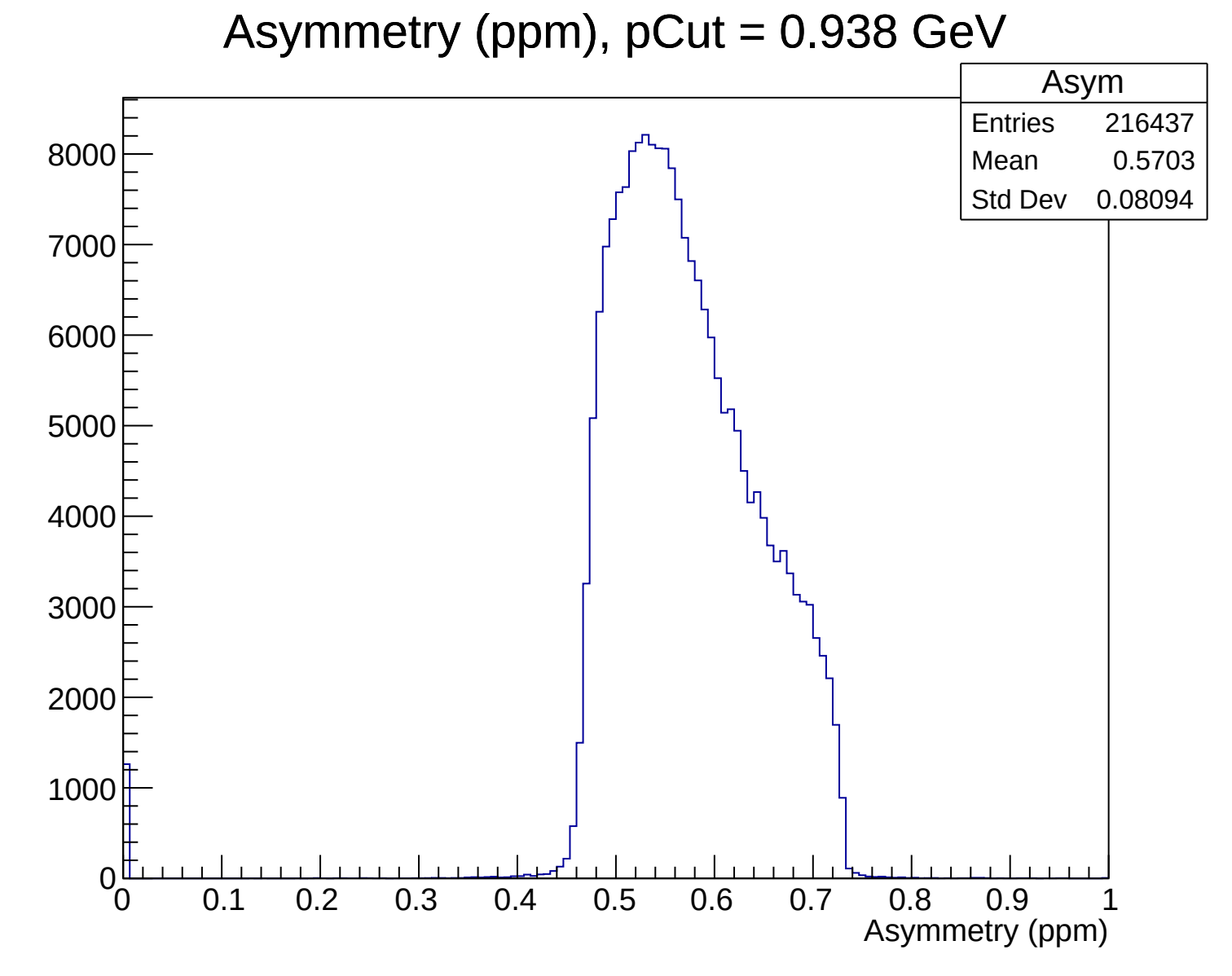

Q^2 (GeV/c)^2, pCut = 0.937 GeV
Q2
Entries 221737
Mean 0.006328
Std Dev 0.001229
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

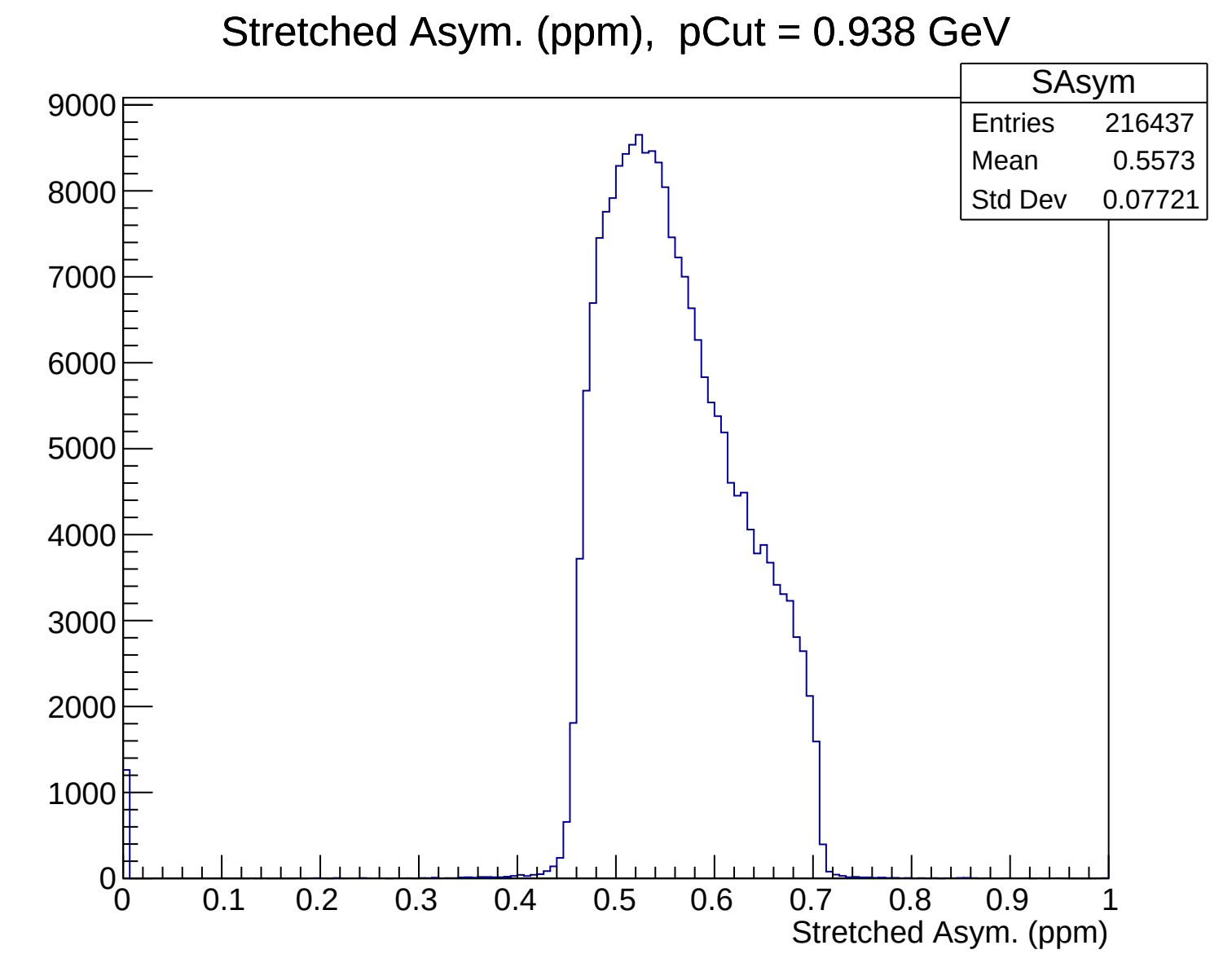

Sensitivity, pCut = 0.937 GeV
sens
Entries 221737
Mean 0.02223
Std Dev 0.003895
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

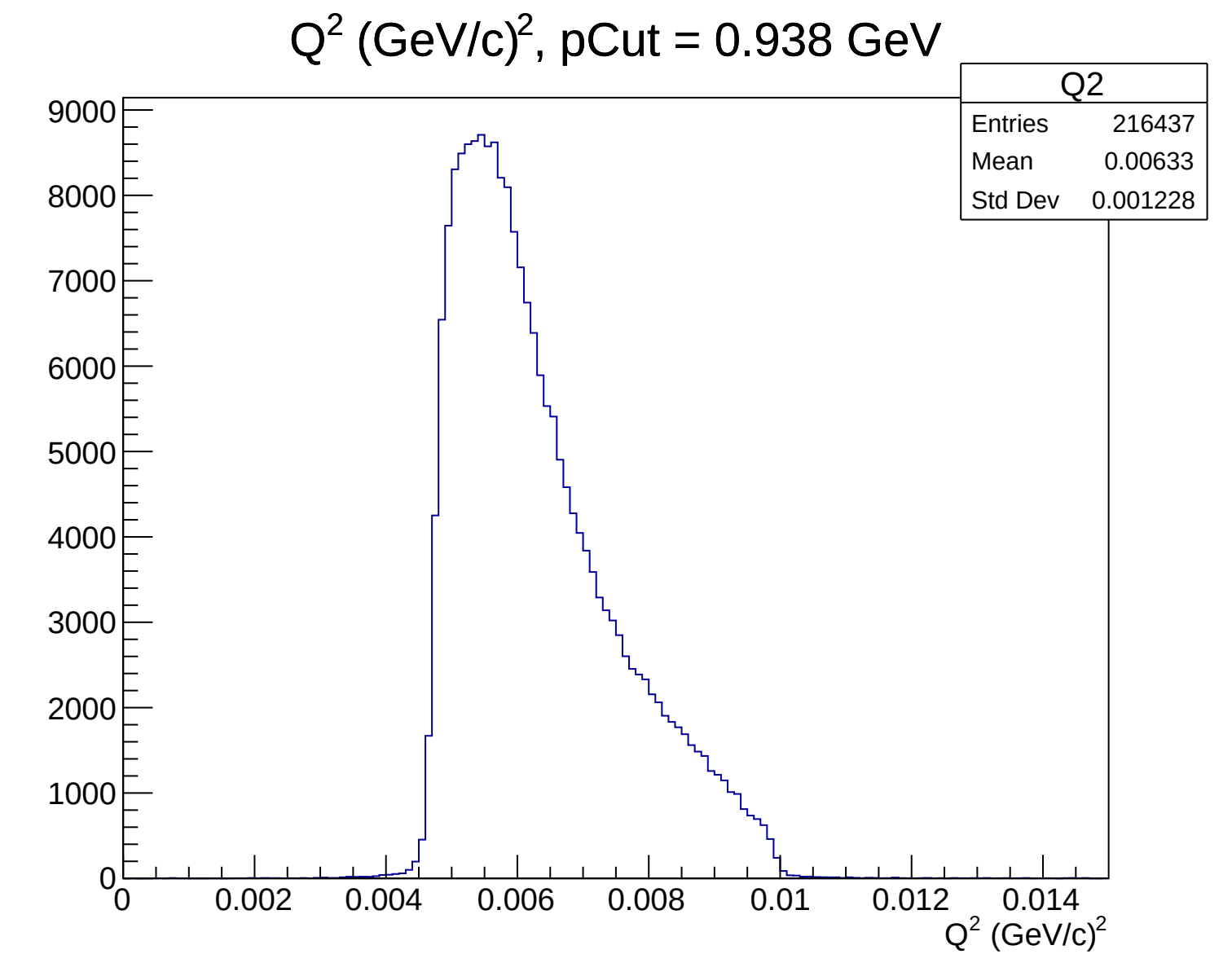

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
16000
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

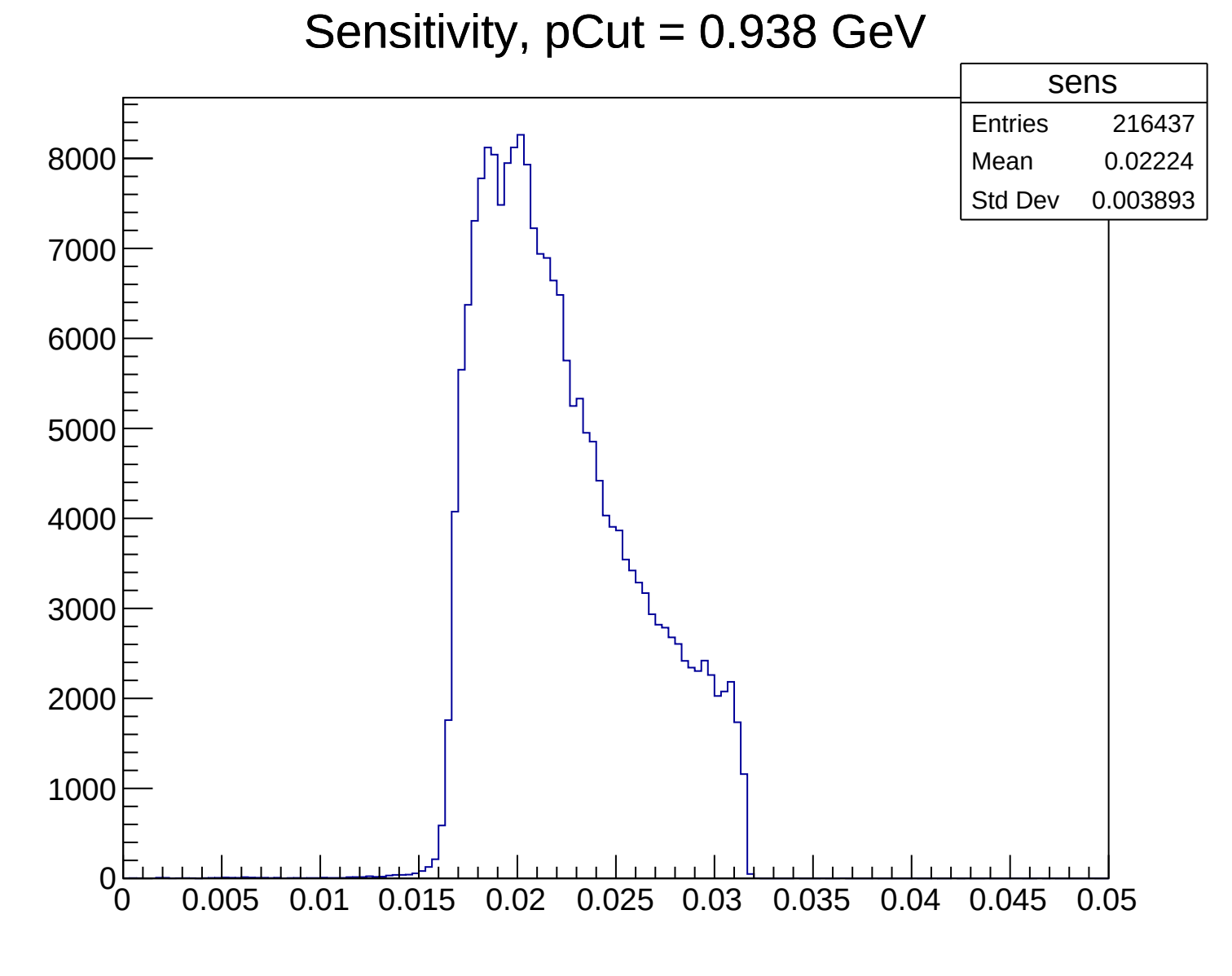

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9380 GeV
16000
14000
12000
10000
8000
6000
4000
2000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

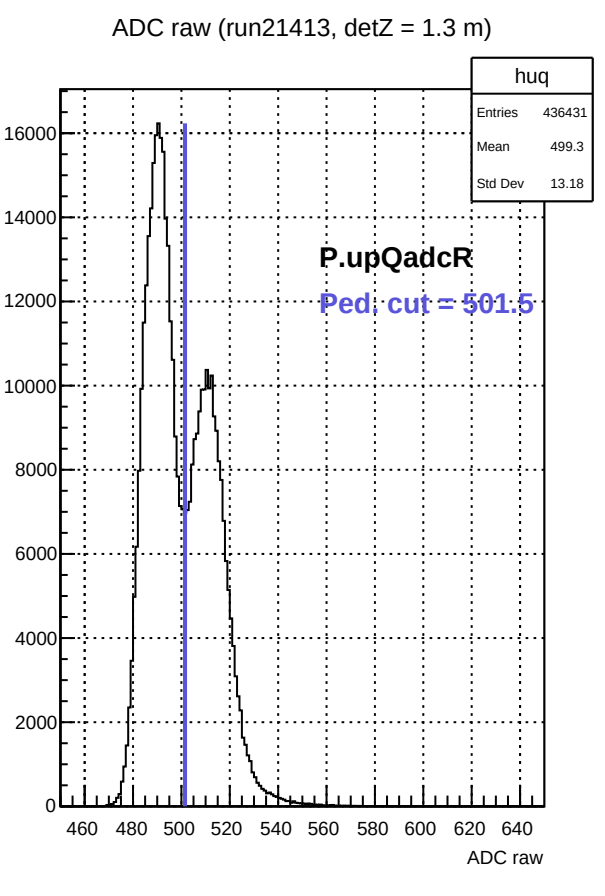

θlab (deg), pCut = 0.938 GeV
Theta
Entries 216437
Mean 4.79
Std Dev 0.4545
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

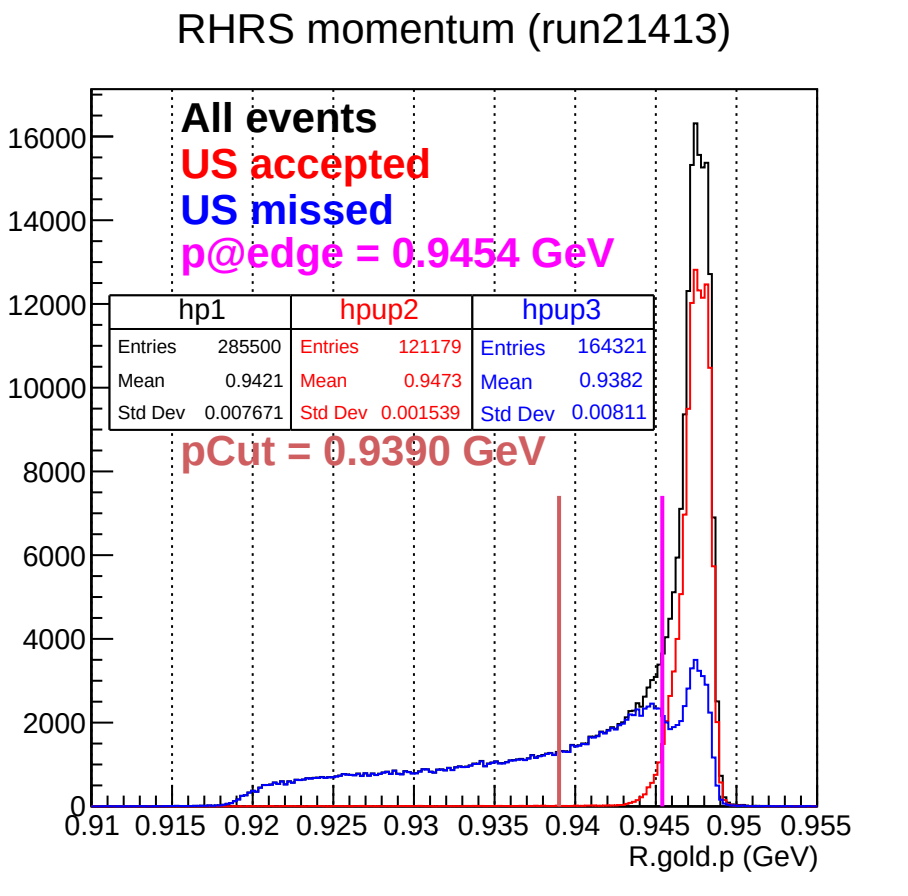

Asymmetry (ppm), pCut = 0.938 GeV
Asym
Entries 216437
Mean 0.5703
Std Dev 0.08094
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

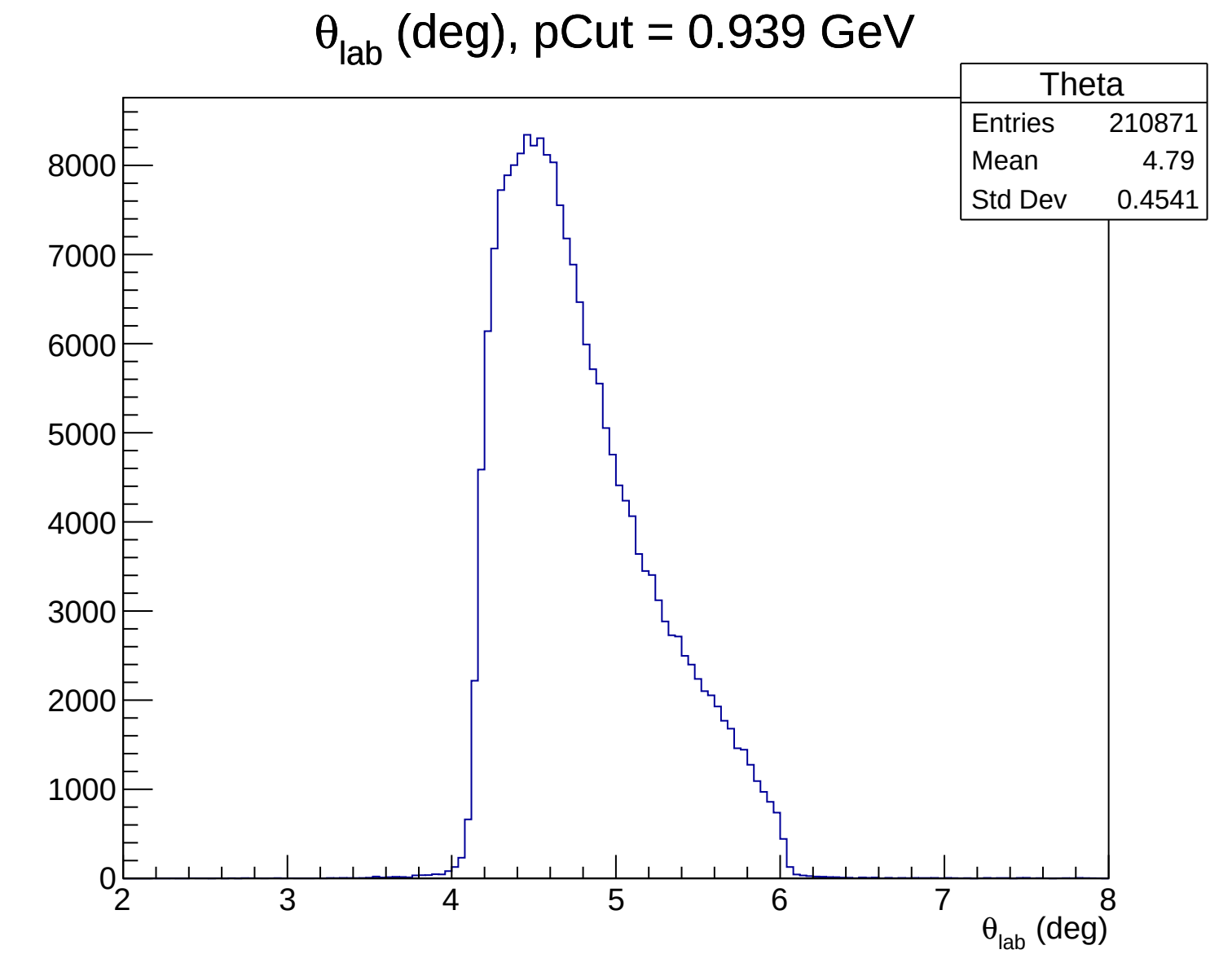

Stretched Asym. (ppm), pCut = 0.938 GeV
SAsym
Entries 216437
Mean 0.5573
Std Dev 0.07721
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

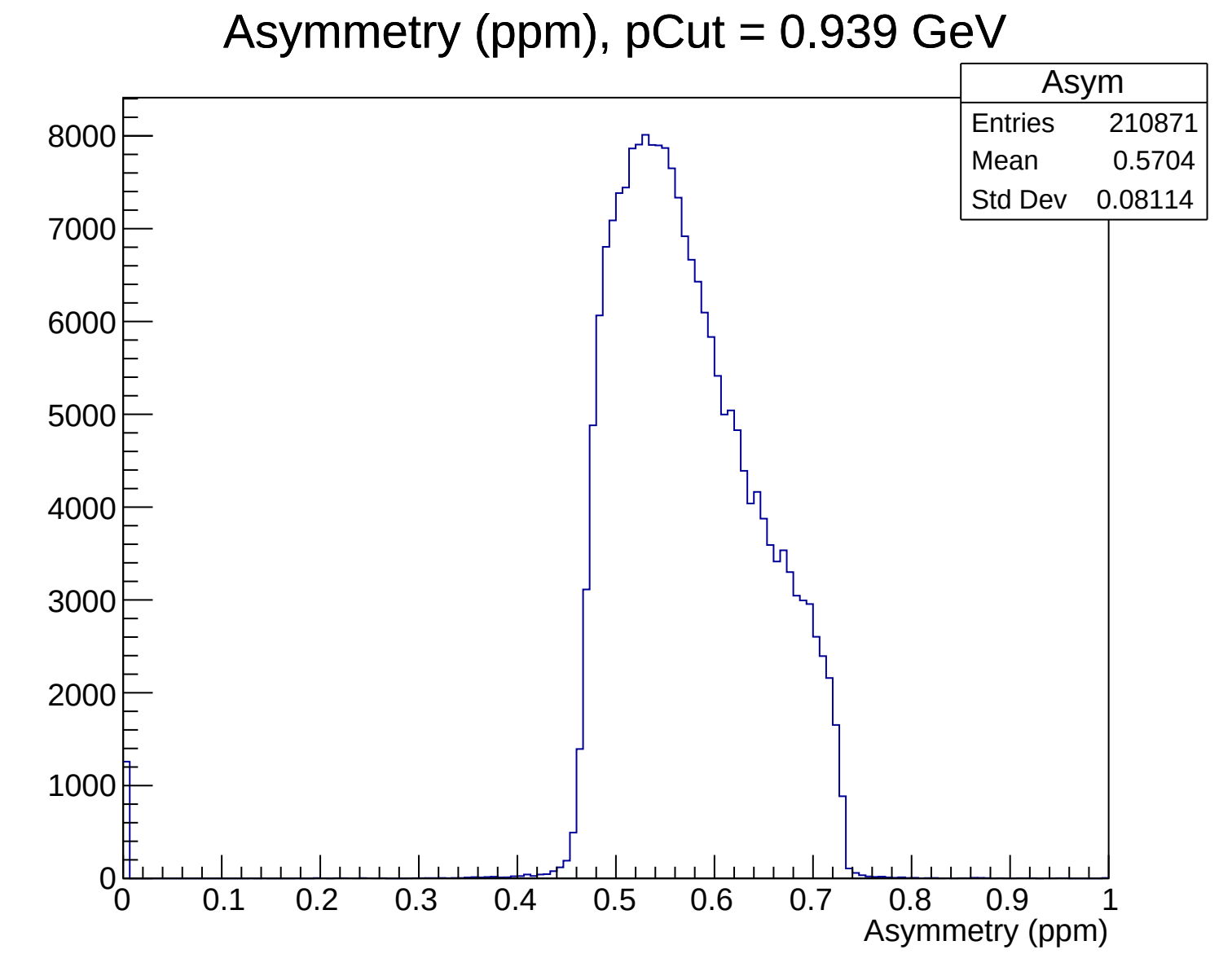

Q^2 (GeV/c)^2, pCut = 0.938 GeV
Q2
Entries 216437
Mean 0.00633
Std Dev 0.001228
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

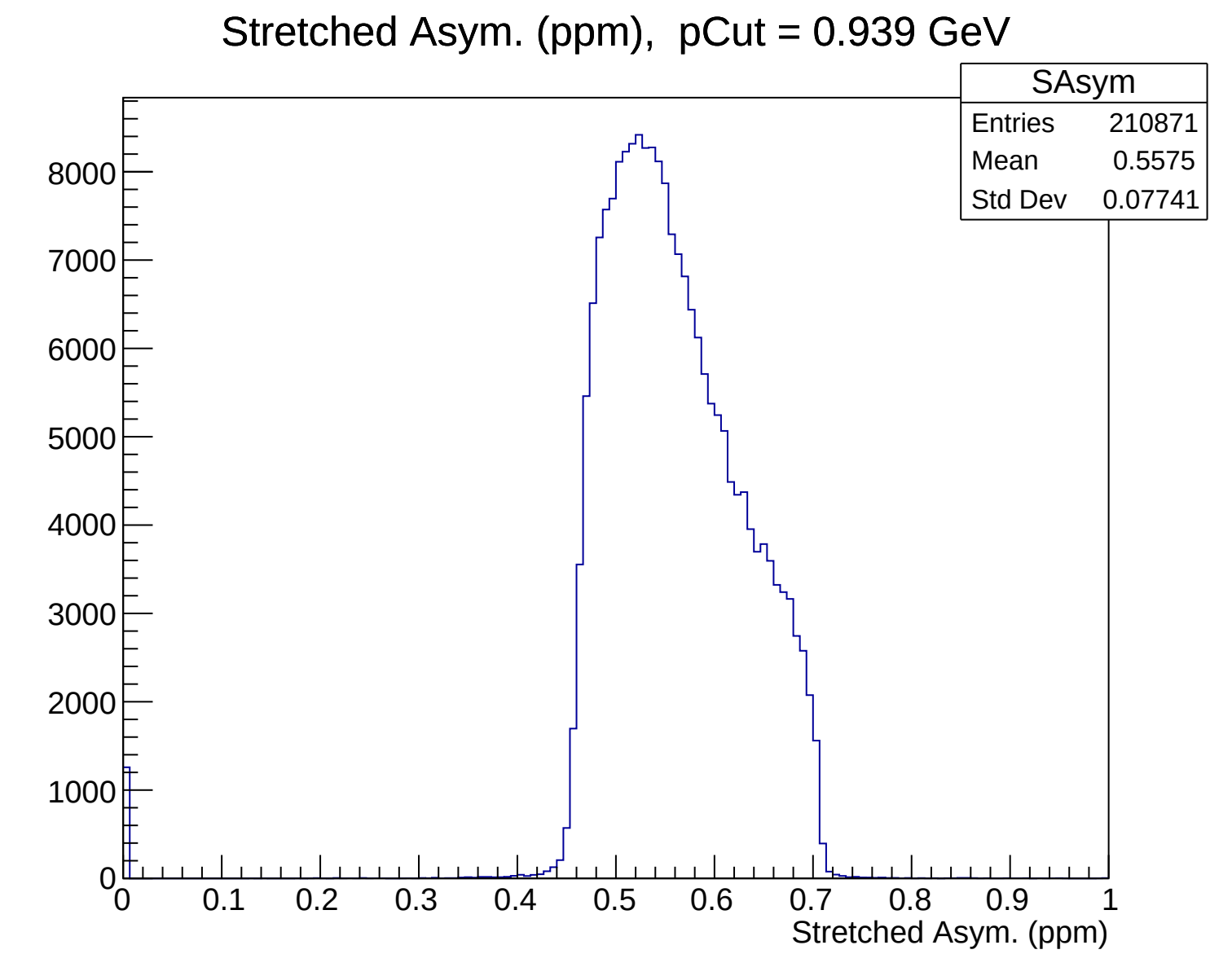

Sensitivity, pCut = 0.938 GeV
sens
Entries 216437
Mean 0.02224
Std Dev 0.003893
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

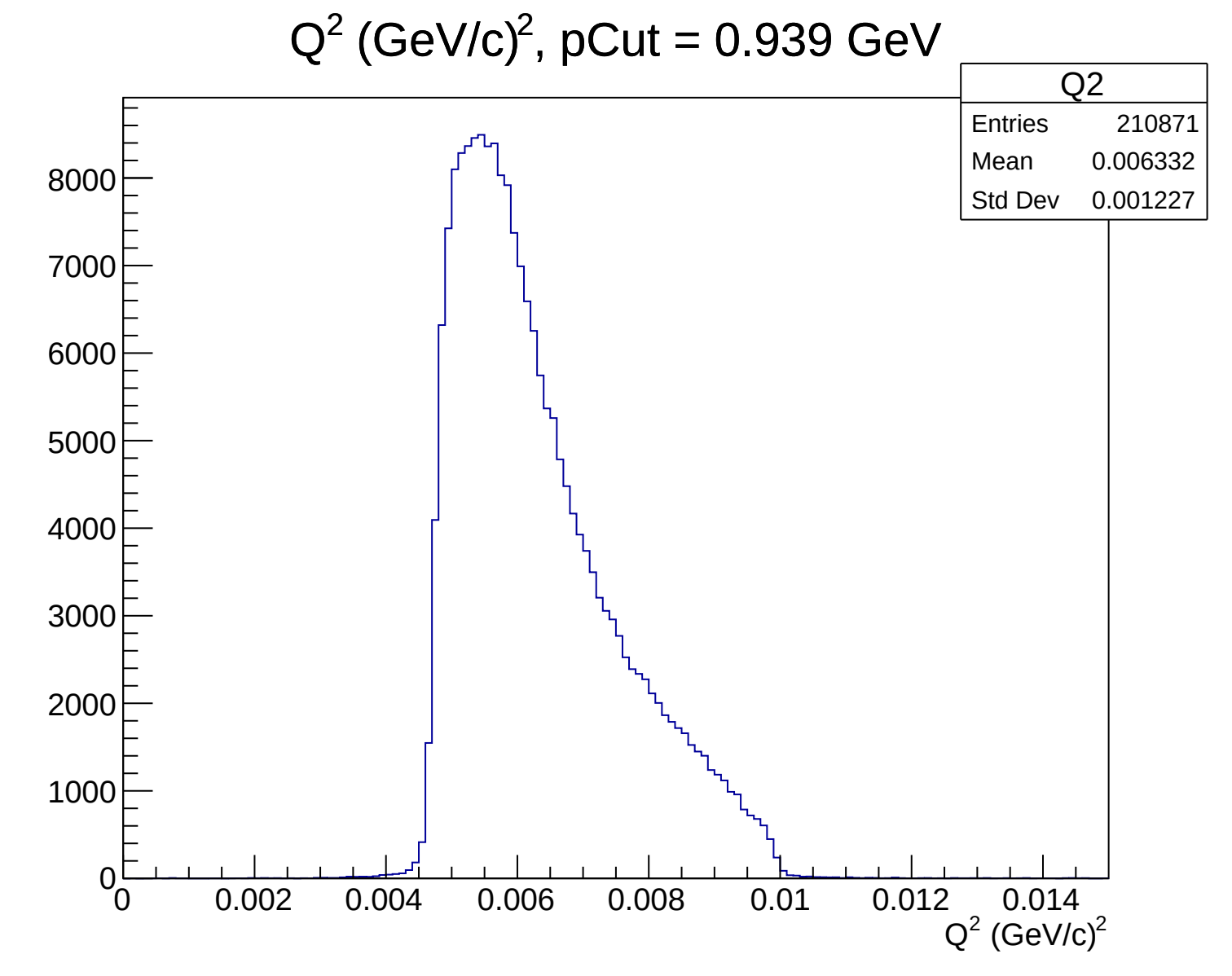

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw

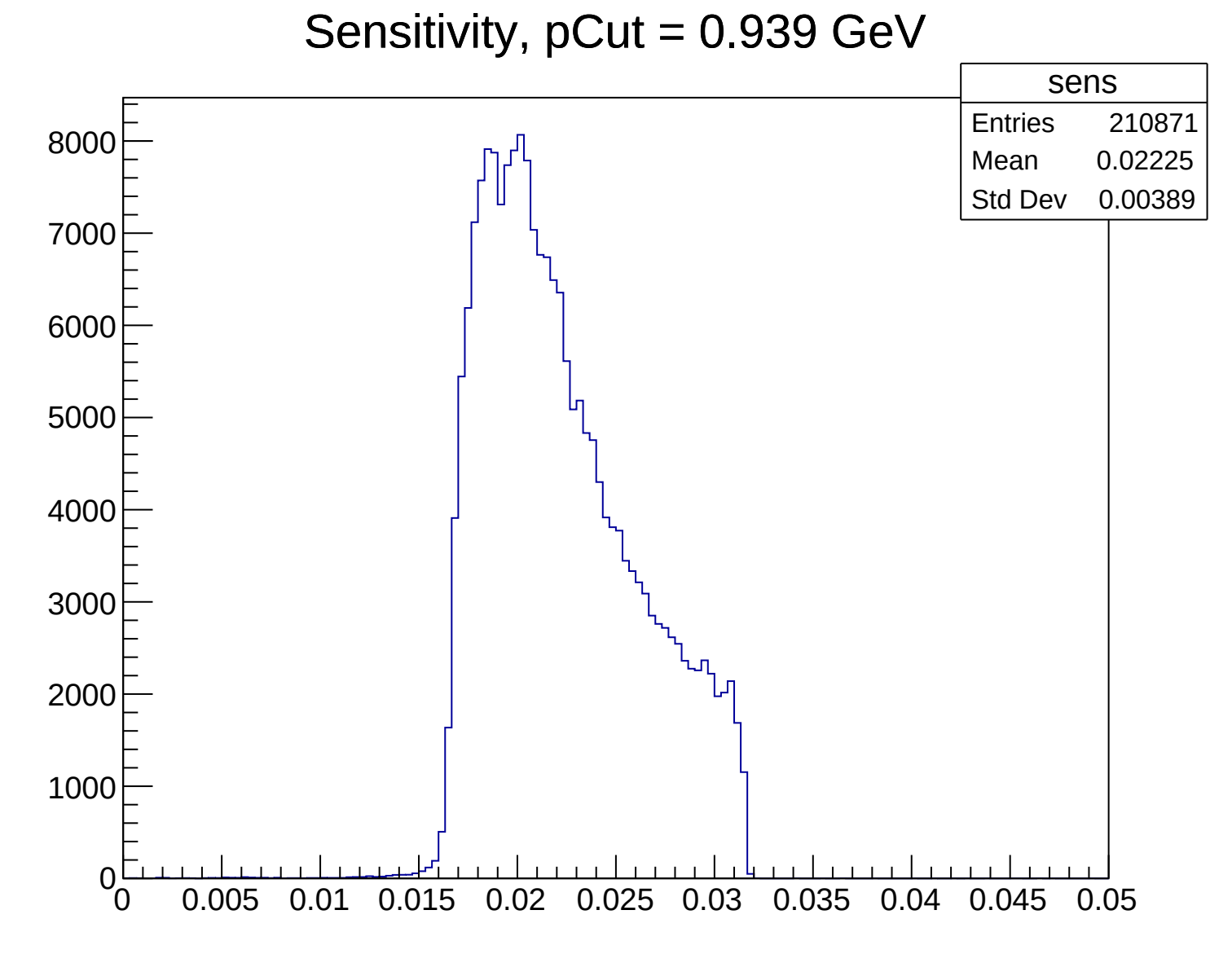

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9390 GeV
R.gold.p (GeV)

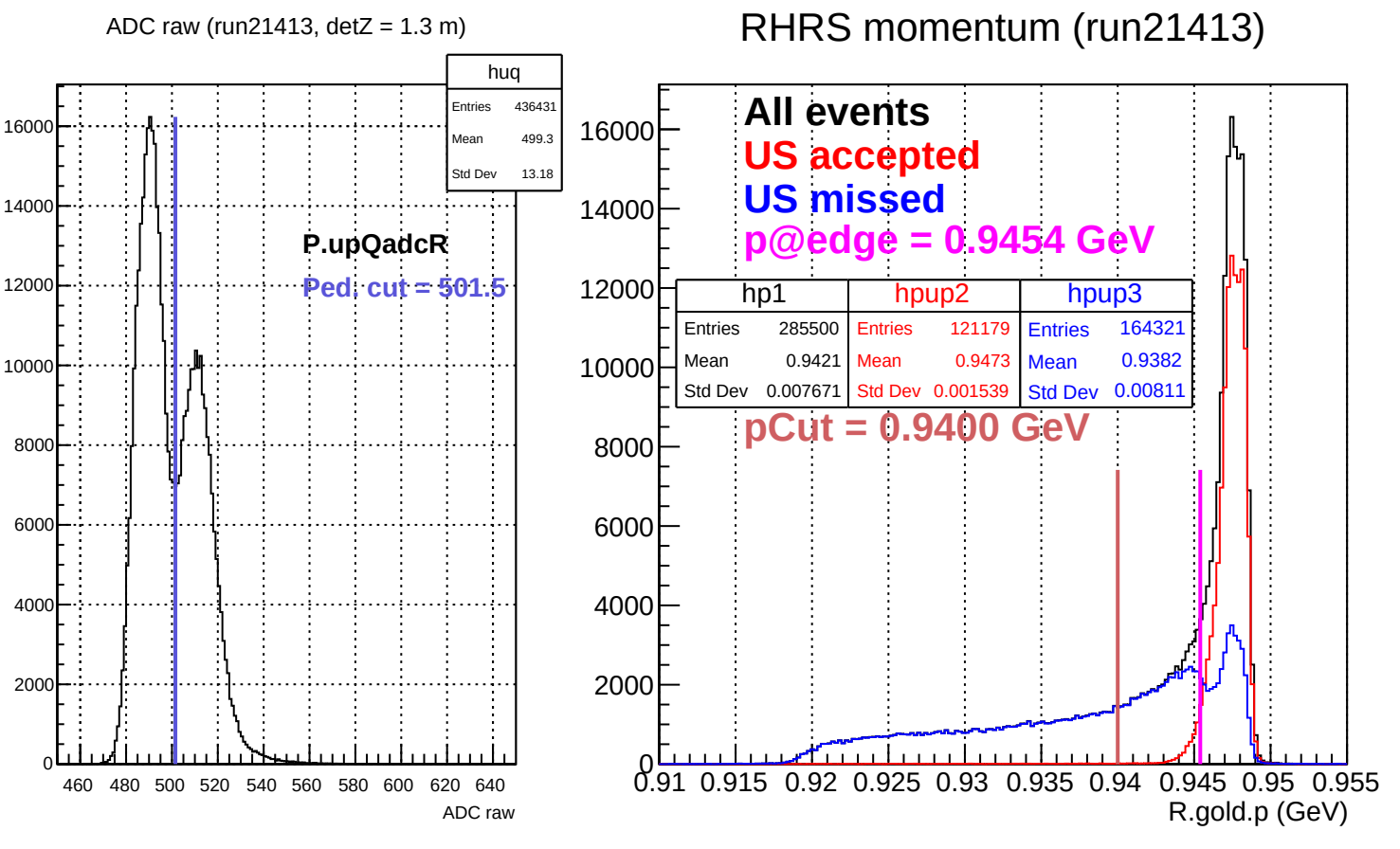

θlab (deg), pCut = 0.939 GeV
Theta
Entries 210871
Mean 4.79
Std Dev 0.4541
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

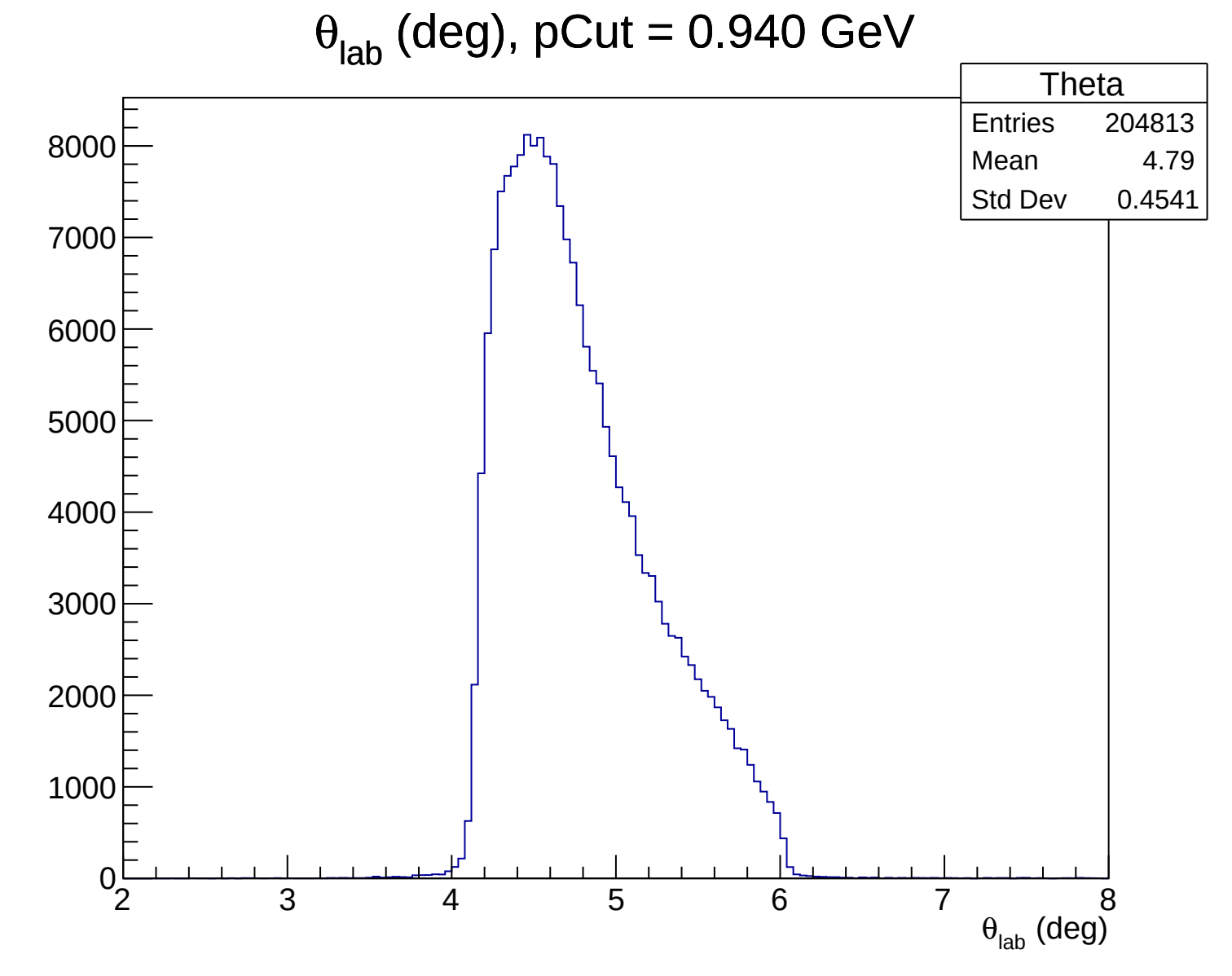

Asymmetry (ppm), pCut = 0.939 GeV
Asym
Entries 210871
Mean 0.5704
Std Dev 0.08114
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

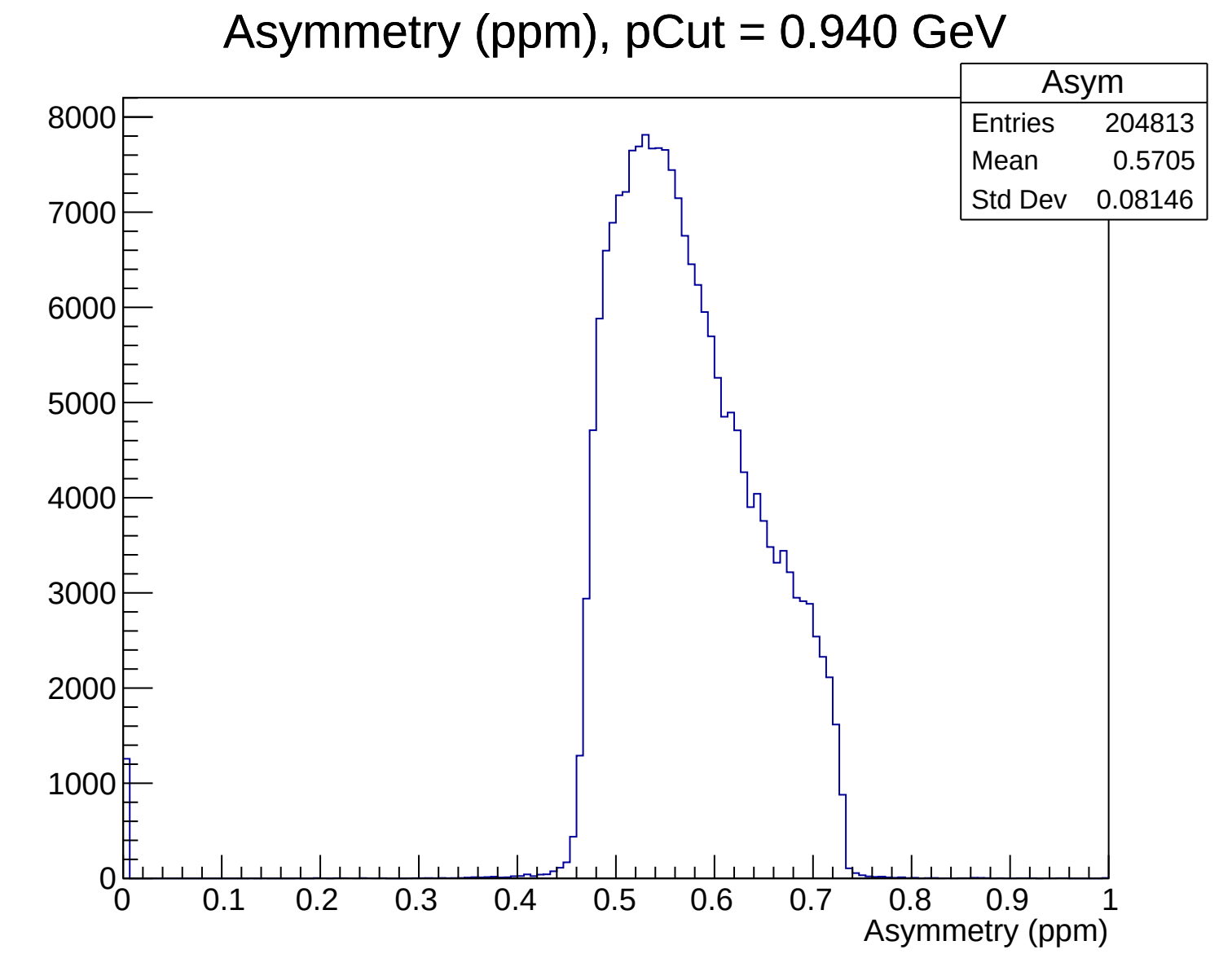

Stretched Asym. (ppm), pCut = 0.939 GeV
SAsym
Entries 210871
Mean 0.5575
Std Dev 0.07741
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

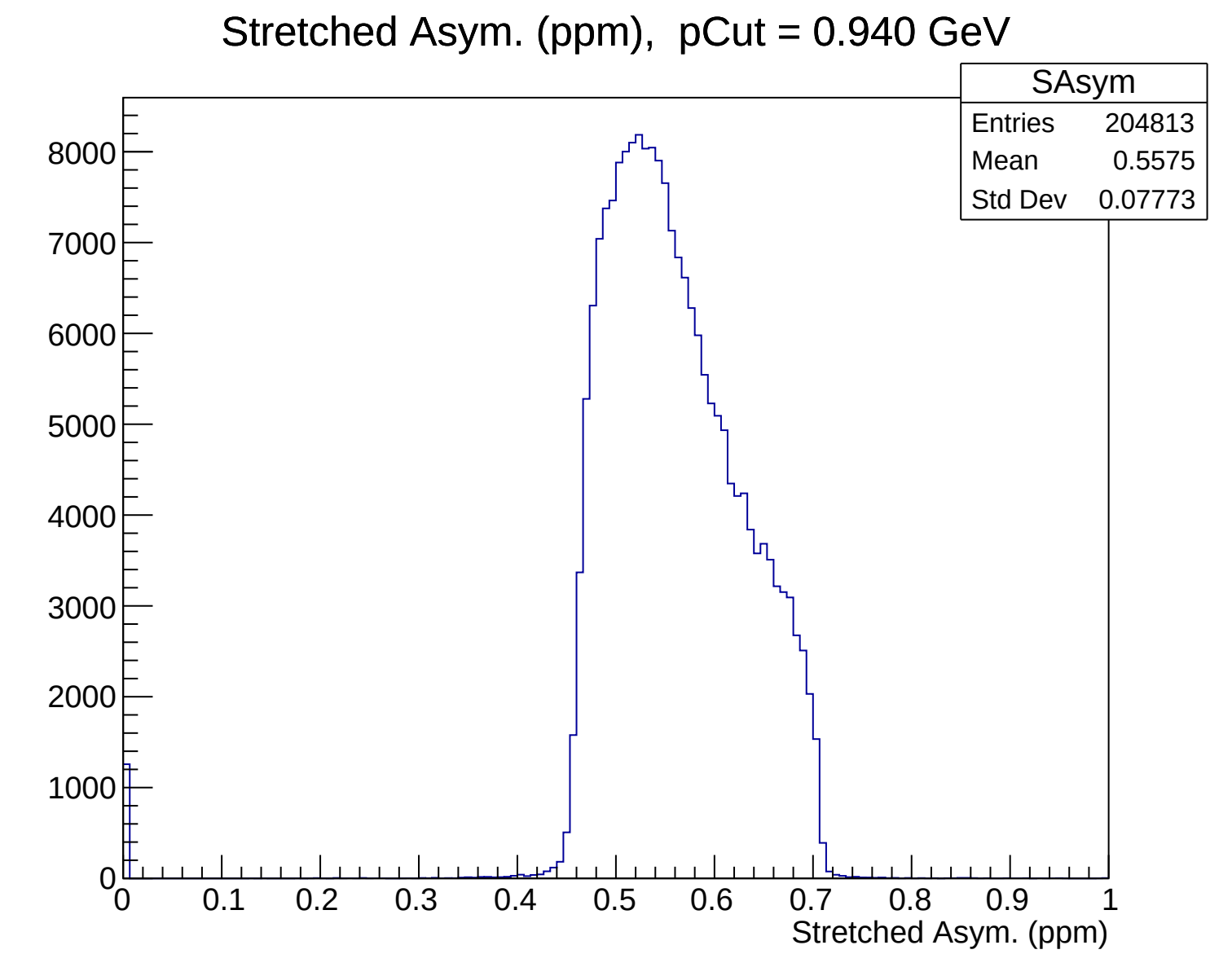

Q^2 (GeV/c)^2, pCut = 0.939 GeV
Q2
Entries 210871
Mean 0.006332
Std Dev 0.001227
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

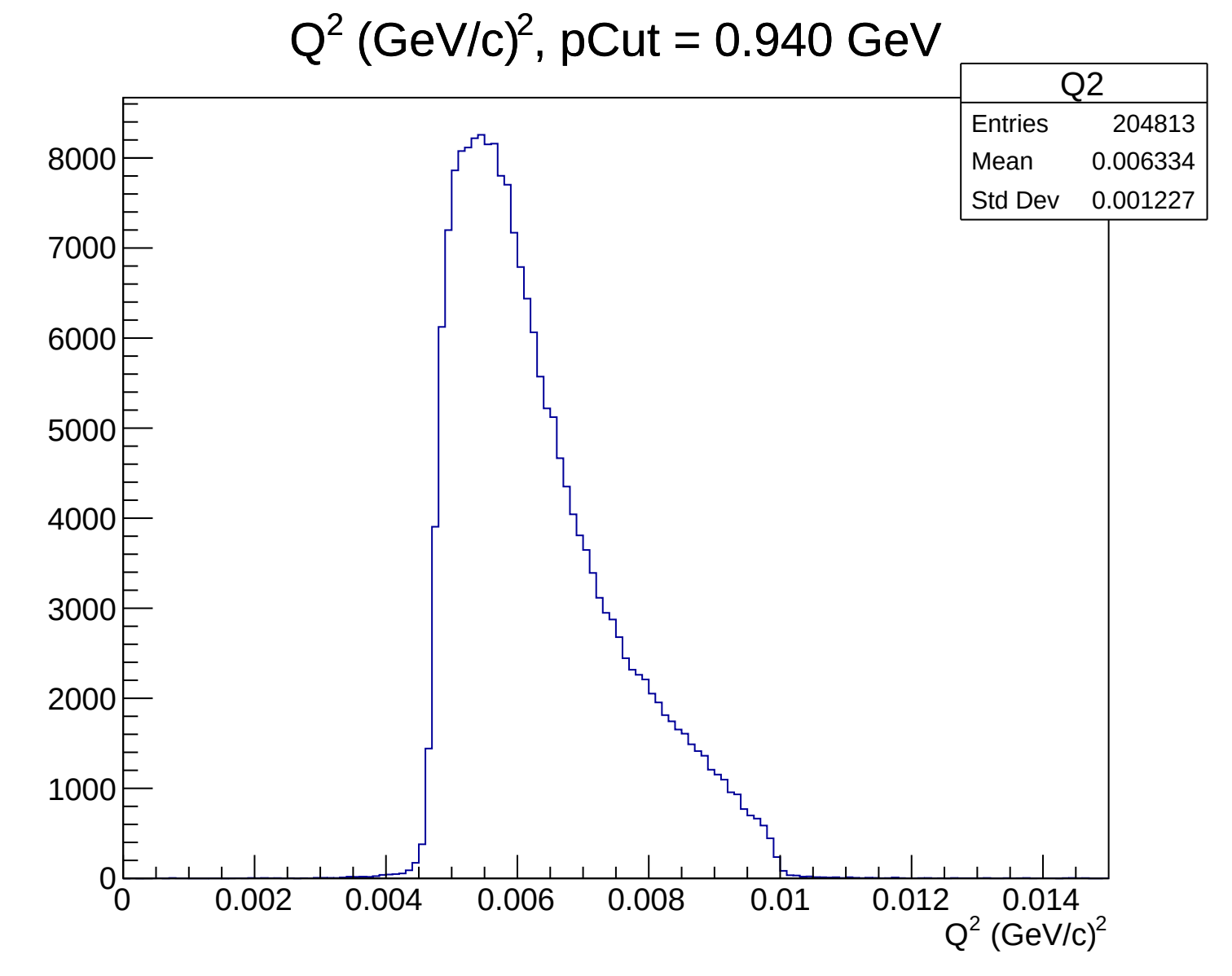

Sensitivity, pCut = 0.939 GeV
sens
Entries 210871
Mean 0.02225
Std Dev 0.00389
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

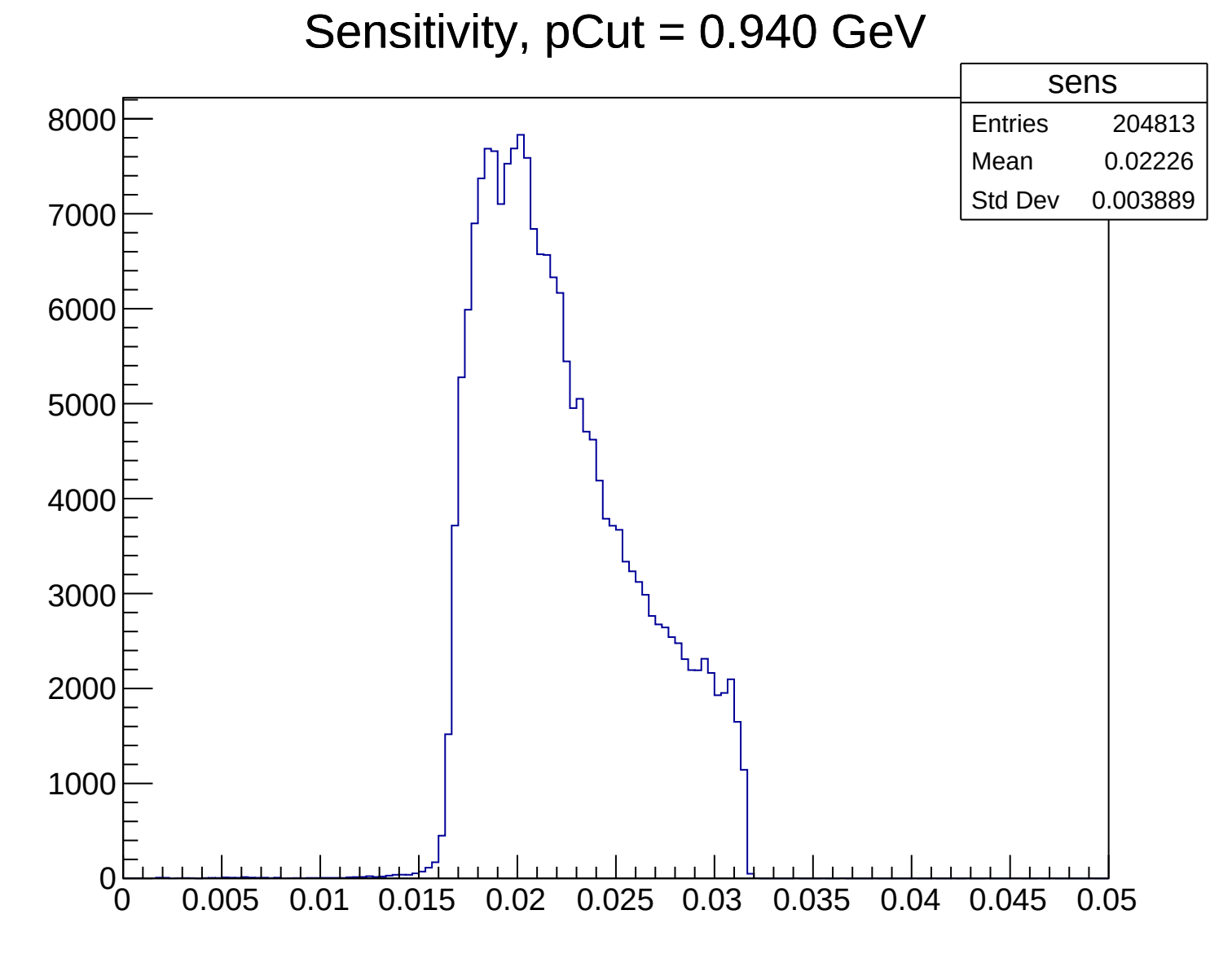

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9400 GeV
R.gold.p (GeV)

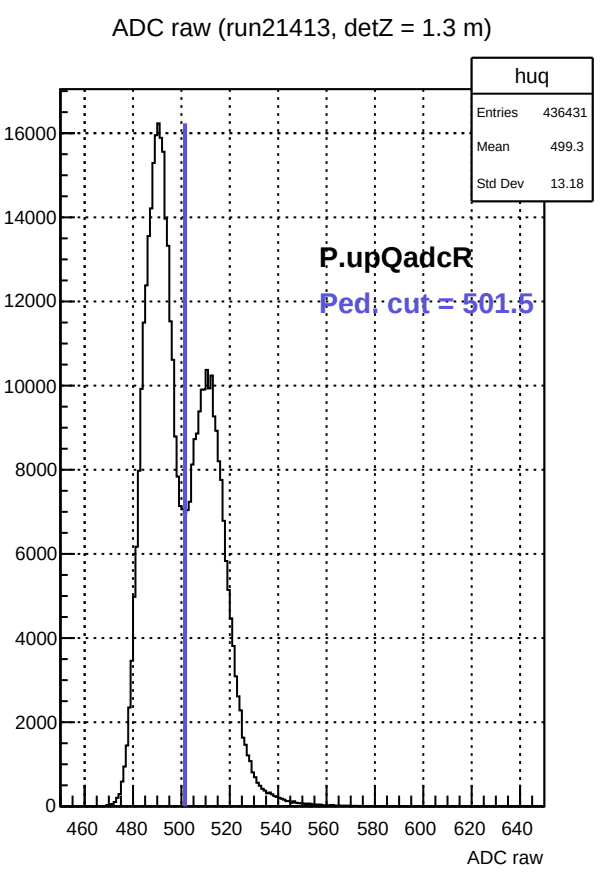

θlab (deg), pCut = 0.940 GeV
Theta
Entries 204813
Mean 4.79
Std Dev 0.4541
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

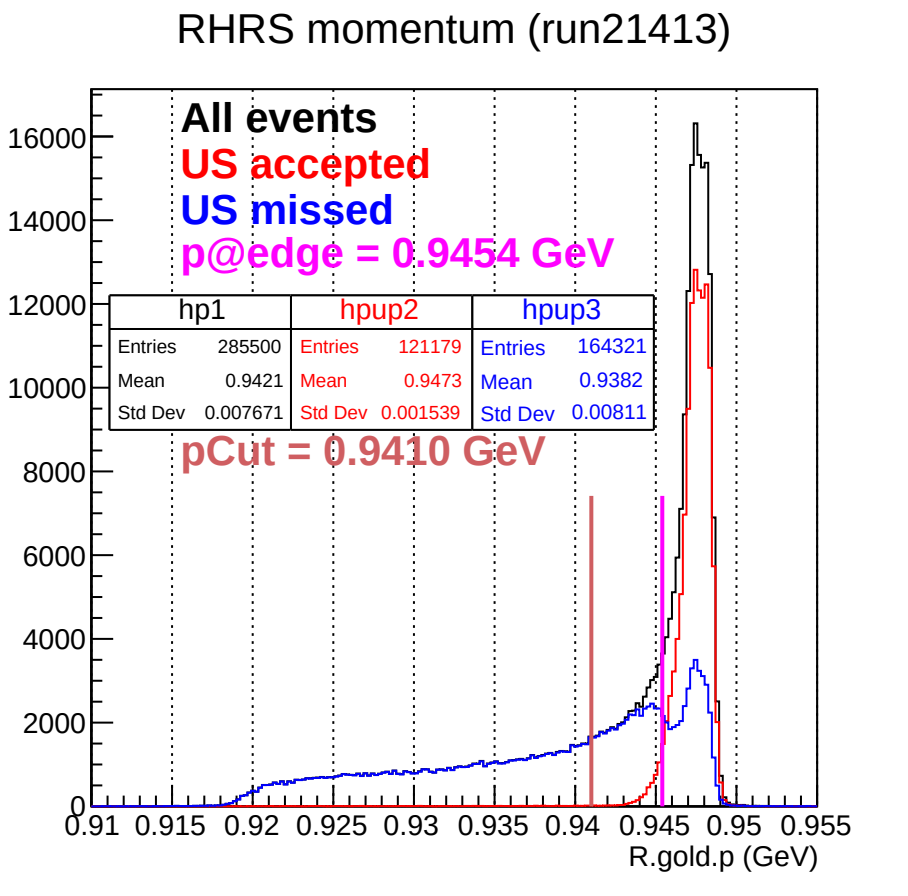

Asymmetry (ppm), pCut = 0.940 GeV
Asym
Entries 204813
Mean 0.5705
Std Dev 0.08146
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

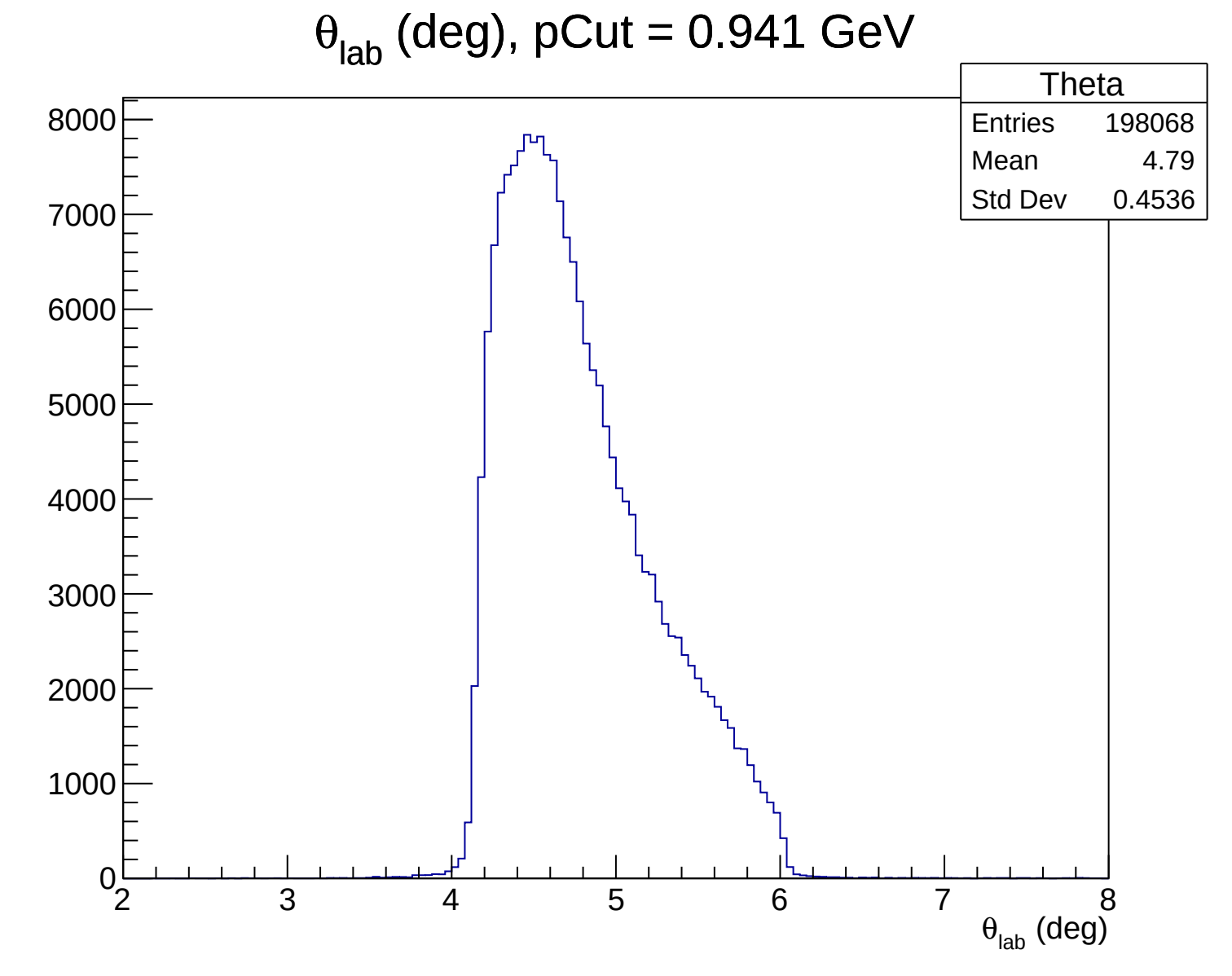

Stretched Asym. (ppm), pCut = 0.940 GeV
SAsym
Entries 204813
Mean 0.5575
Std Dev 0.07773
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

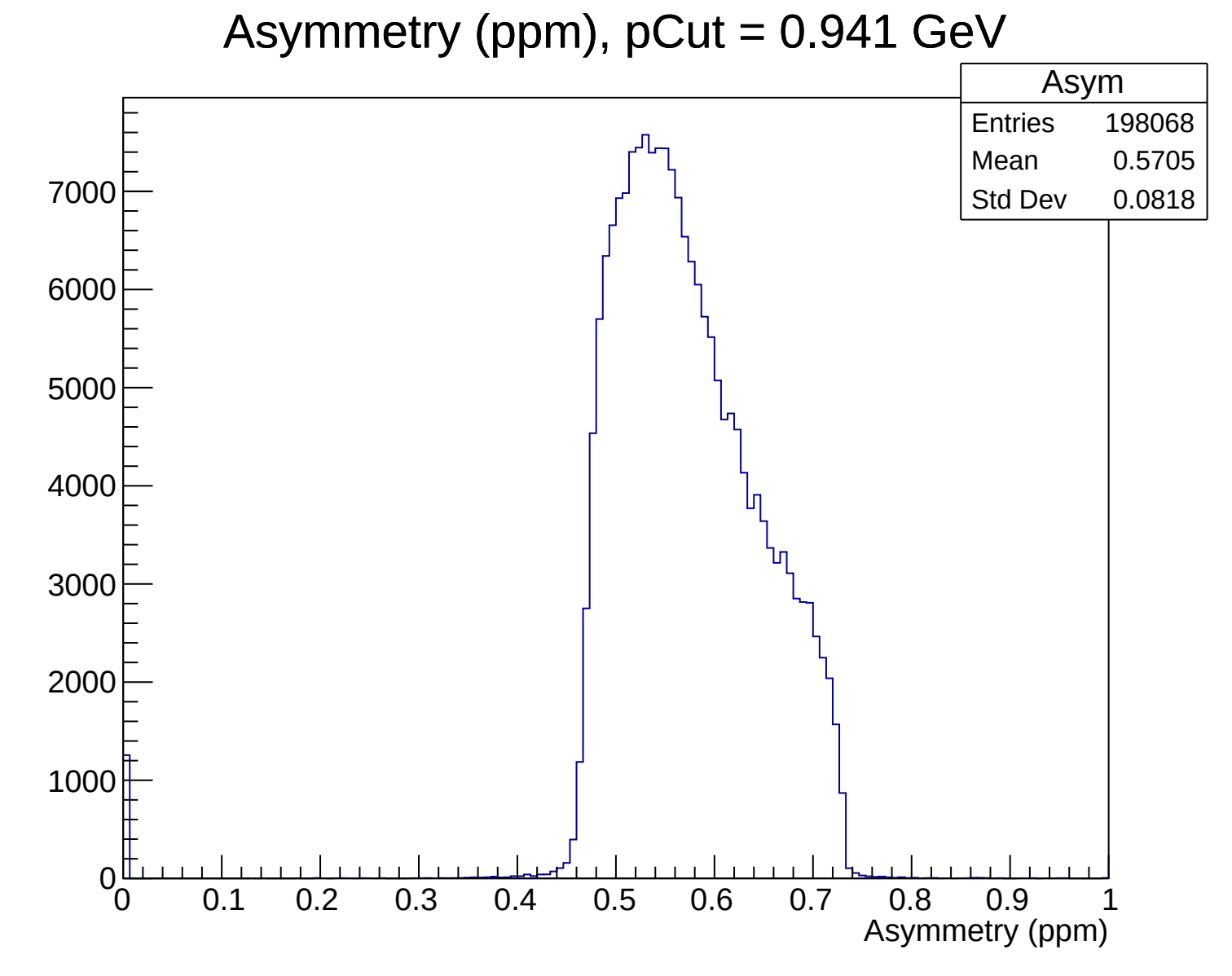

Q^2 (GeV/c)^2, pCut = 0.940 GeV
Q2
Entries 204813
Mean 0.006334
Std Dev 0.001227
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

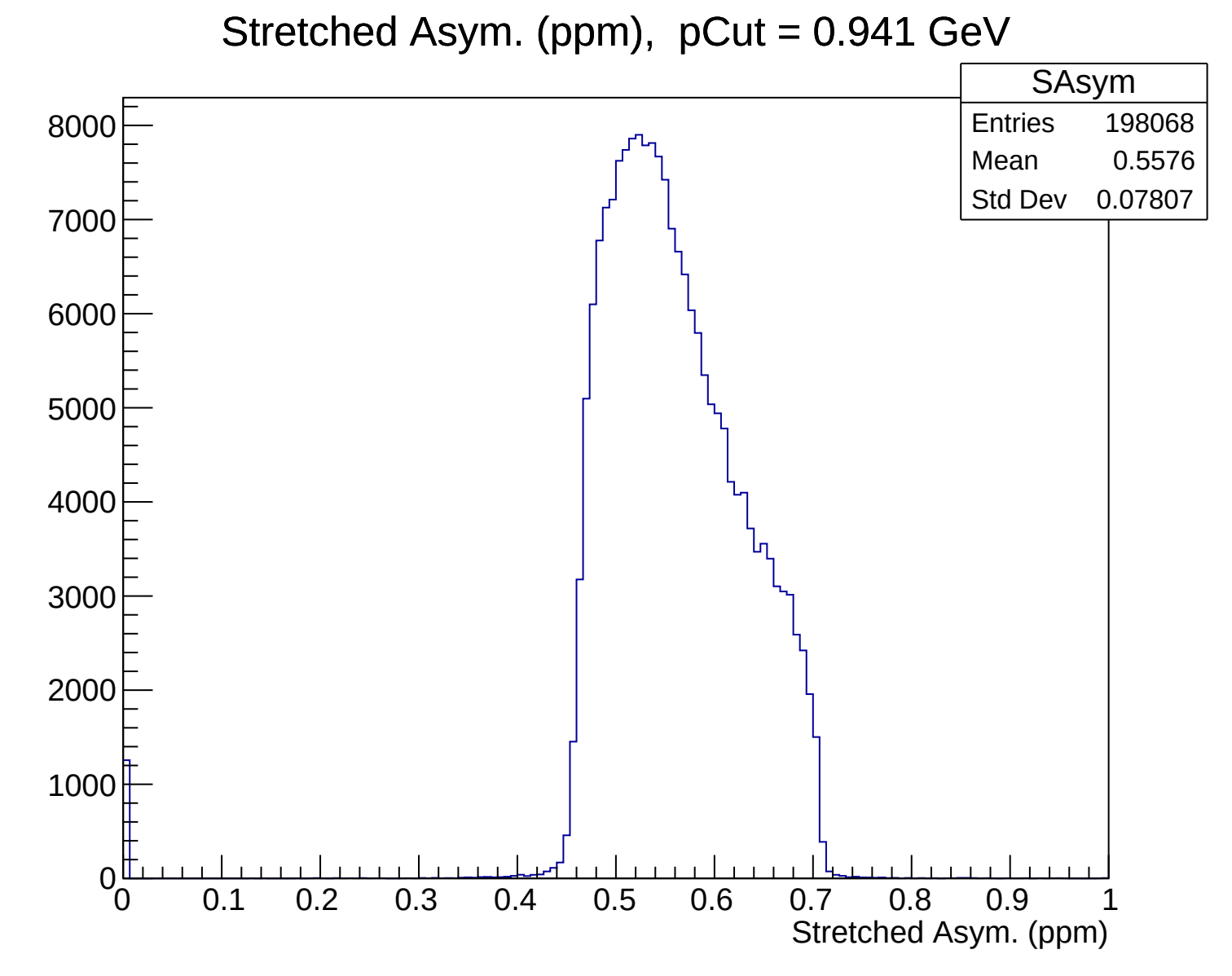

Sensitivity, pCut = 0.940 GeV
sens
Entries 204813
Mean 0.02226
Std Dev 0.003889
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

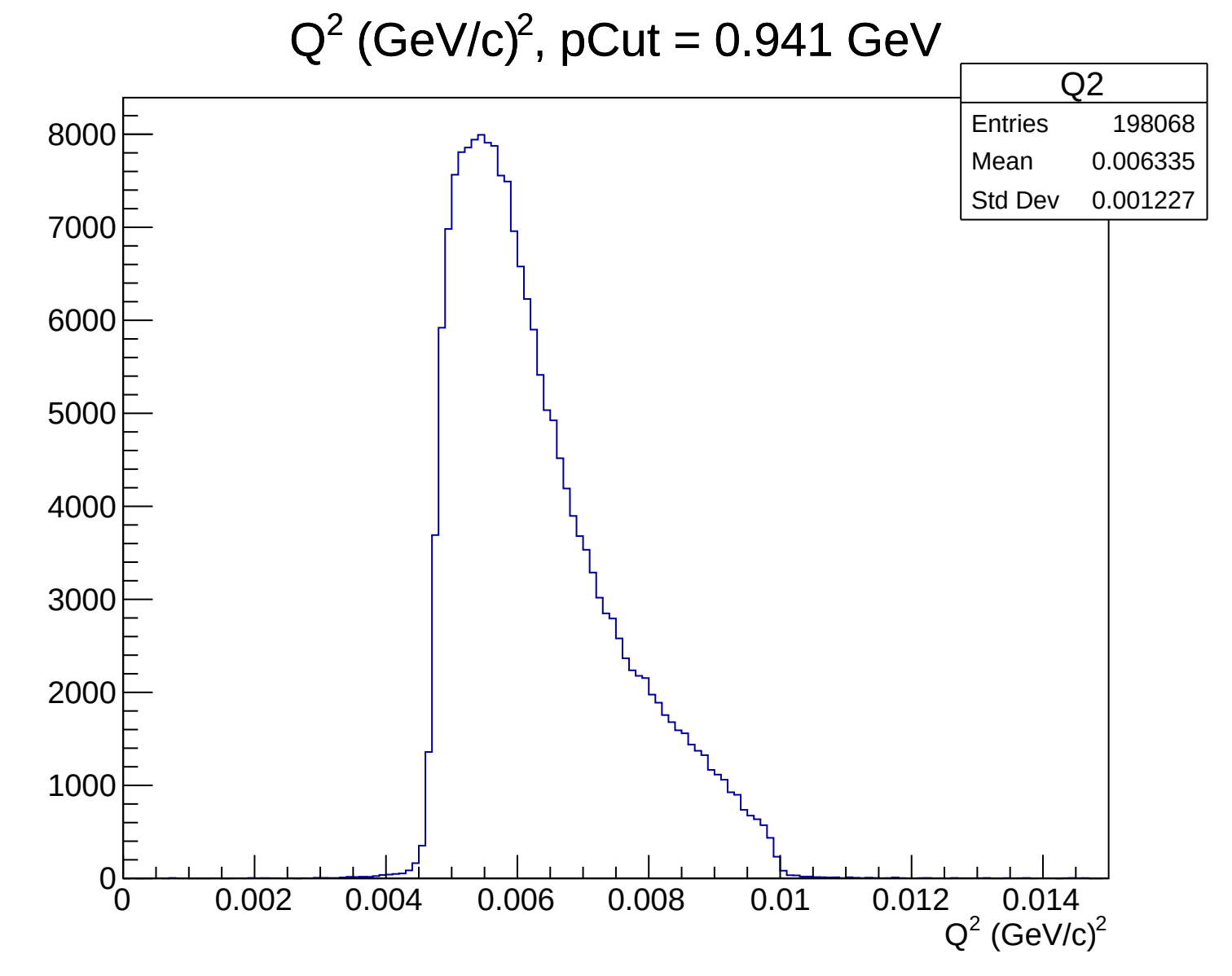

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw

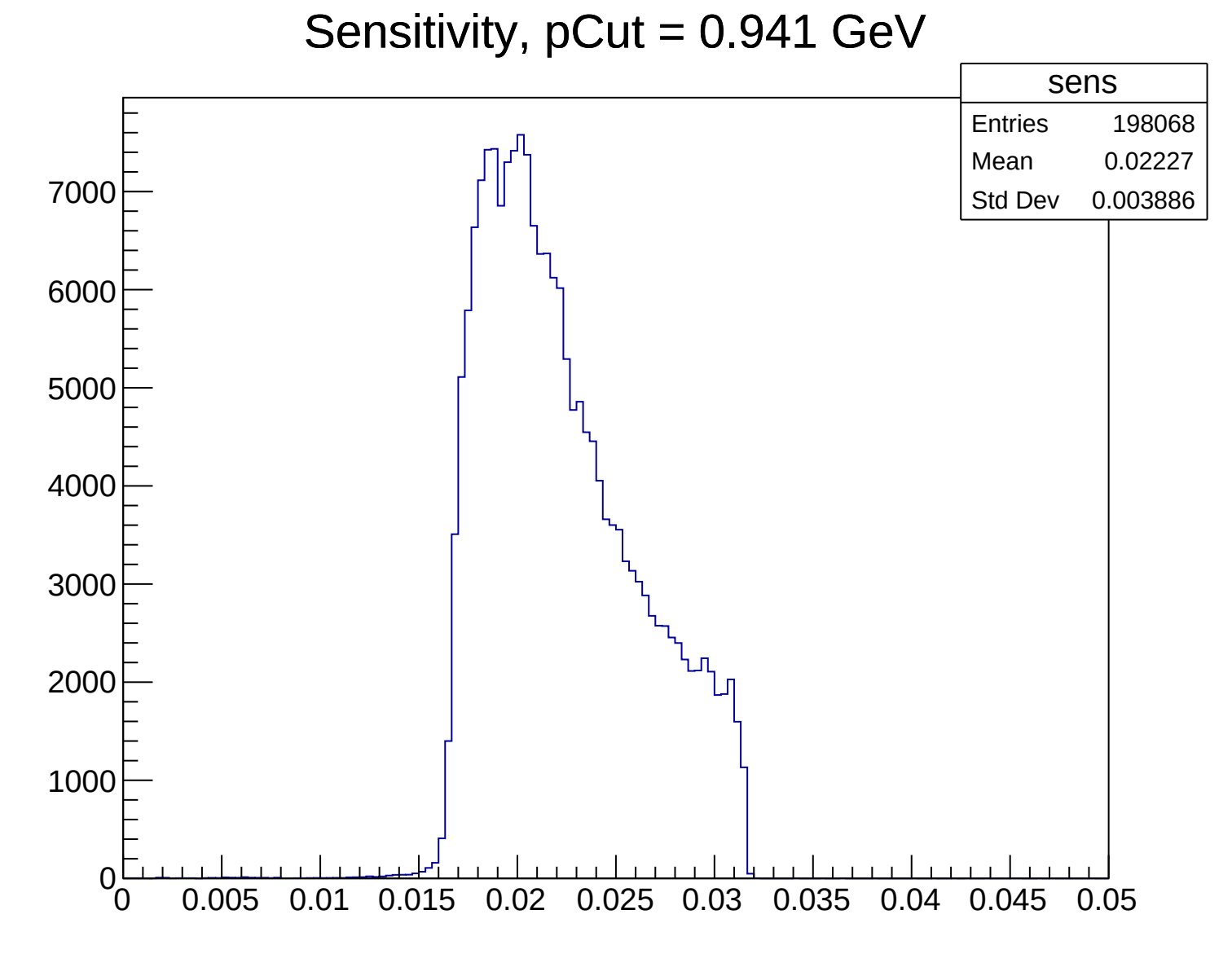

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9410 GeV
R.gold.p (GeV)

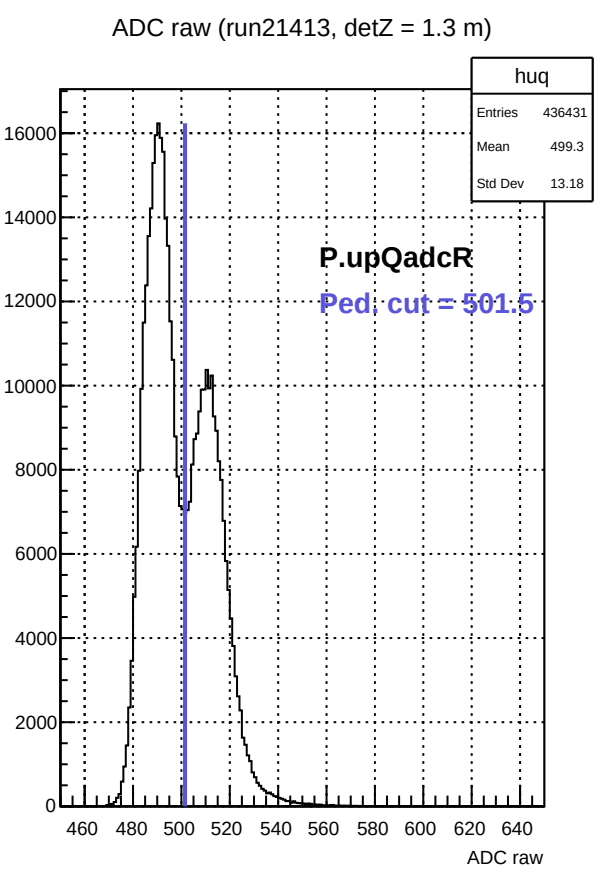

θlab (deg), pCut = 0.941 GeV
Theta
Entries 198068
Mean 4.79
Std Dev 0.4536
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

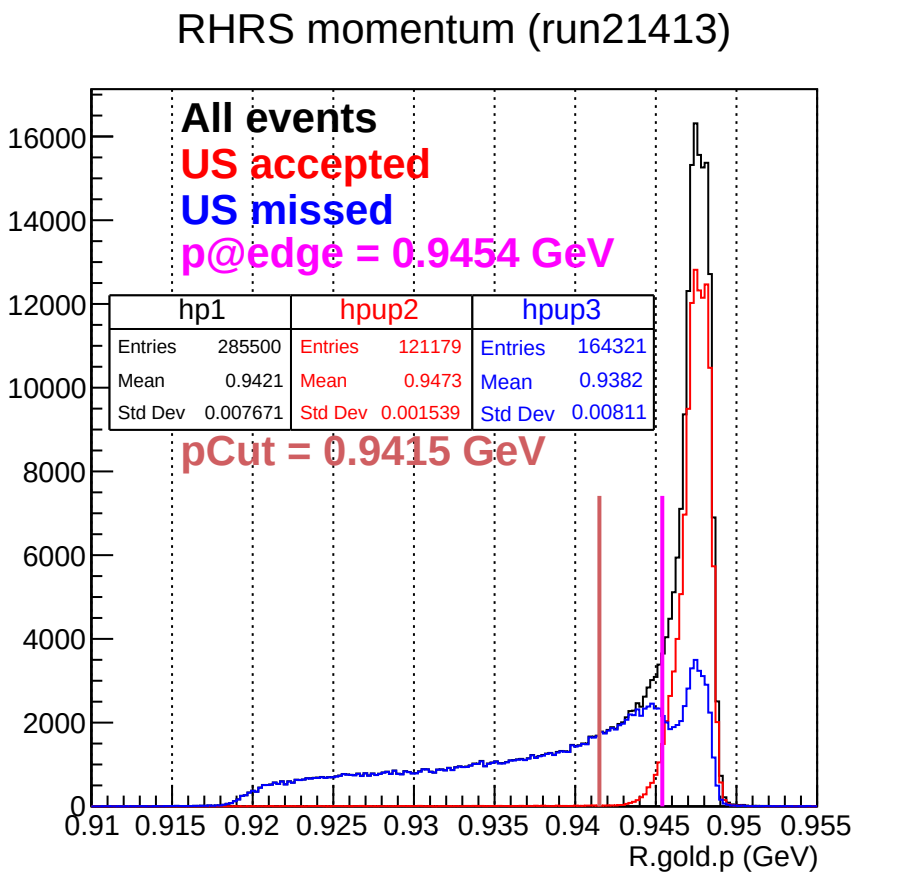

Asymmetry (ppm), pCut = 0.941 GeV
Asym
Entries 198068
Mean 0.5705
Std Dev 0.0818
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

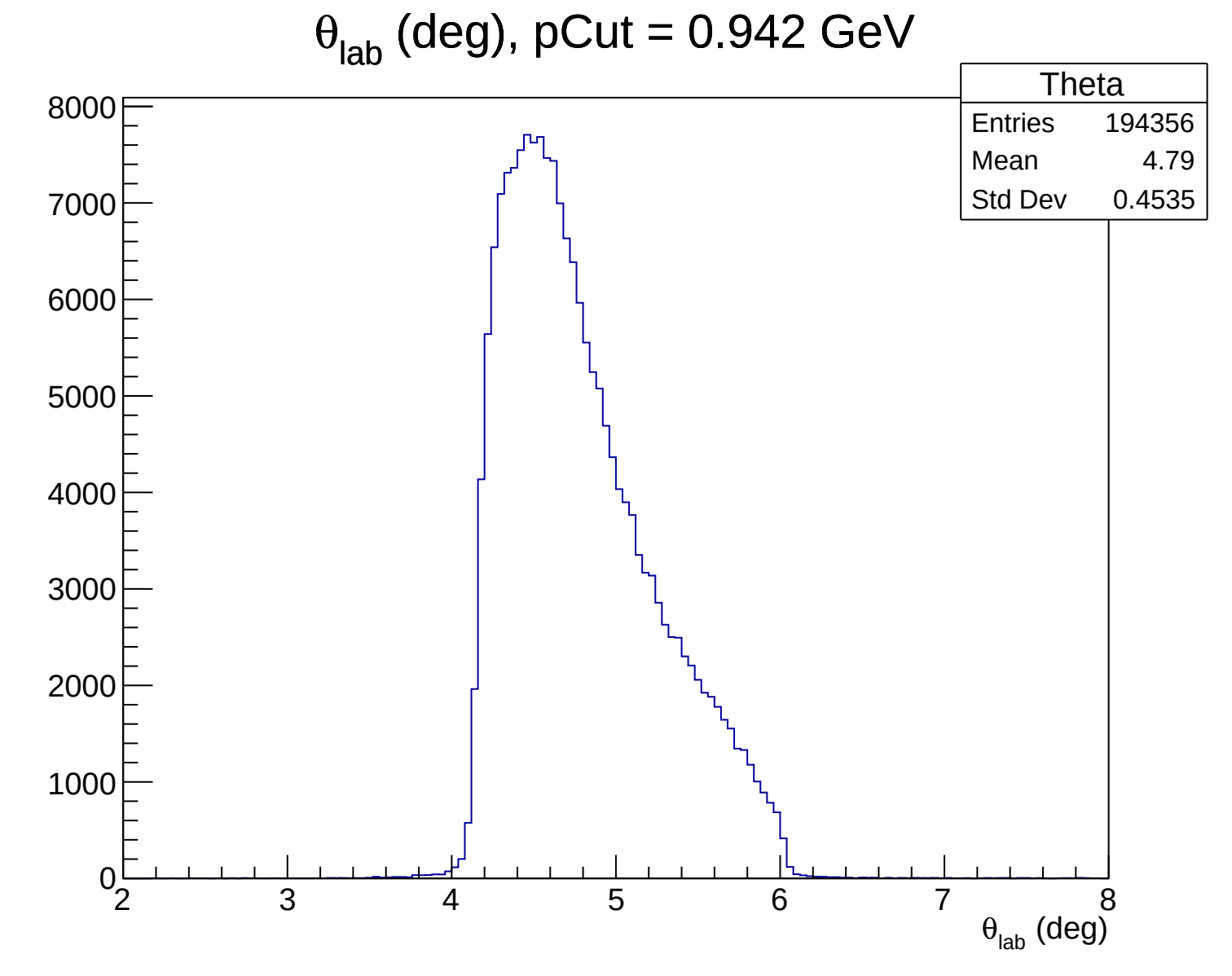

Stretched Asym. (ppm), pCut = 0.941 GeV
SAsym
Entries 198068
Mean 0.5576
Std Dev 0.07807
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

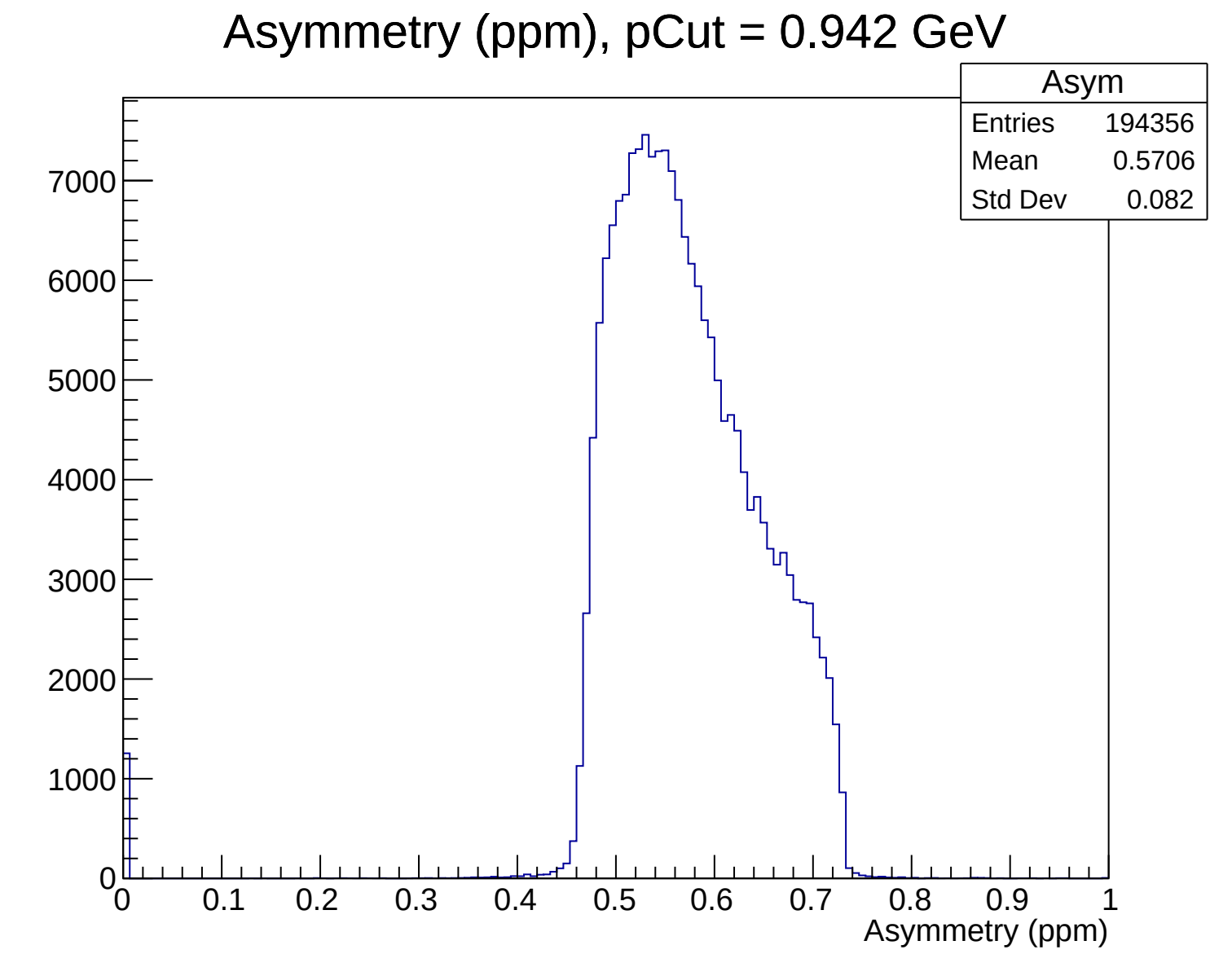

Q^2 (GeV/c)^2, pCut = 0.941 GeV
Q2
Entries 198068
Mean 0.006335
Std Dev 0.001227
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

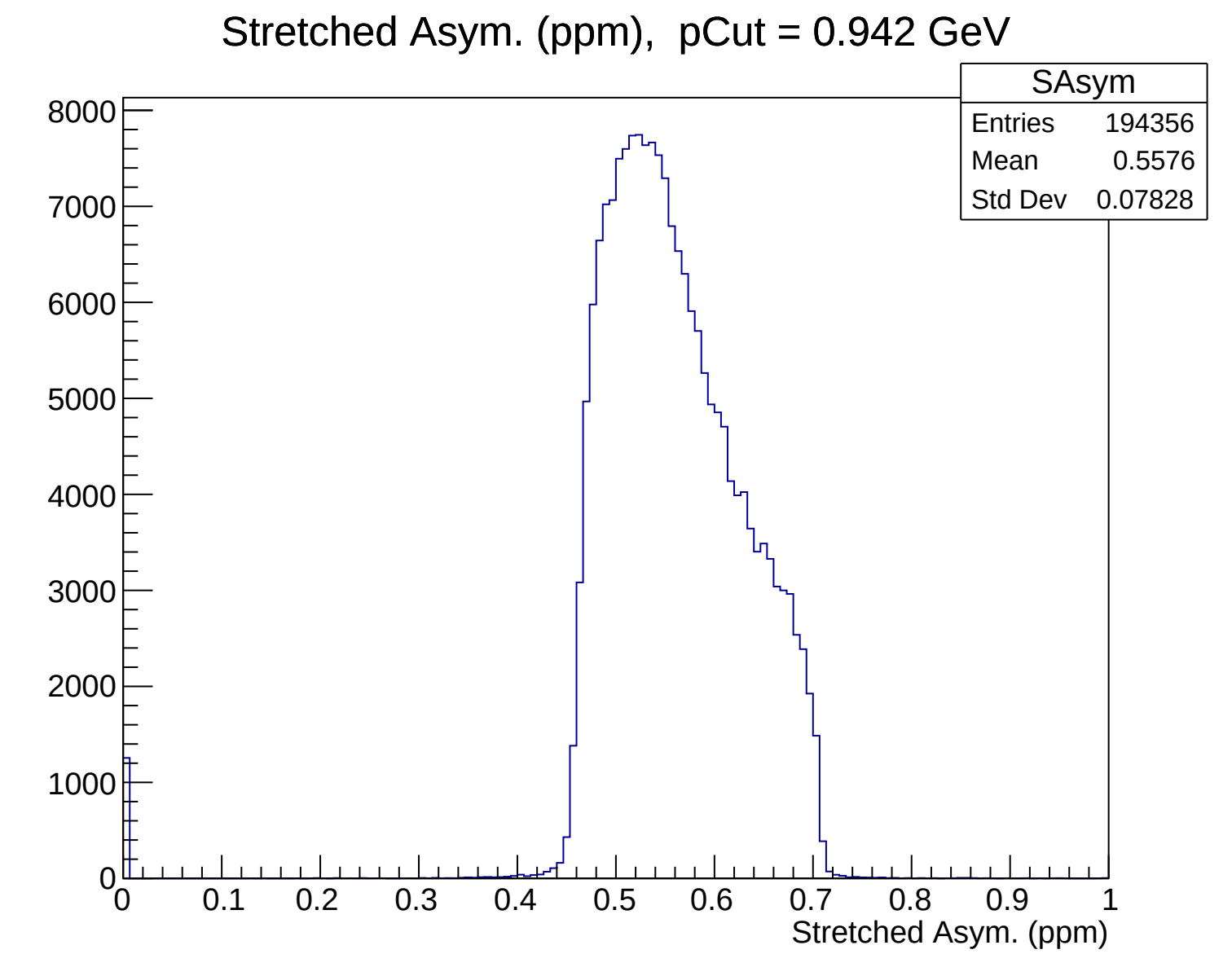

Sensitivity, pCut = 0.941 GeV
sens
Entries 198068
Mean 0.02227
Std Dev 0.003886
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

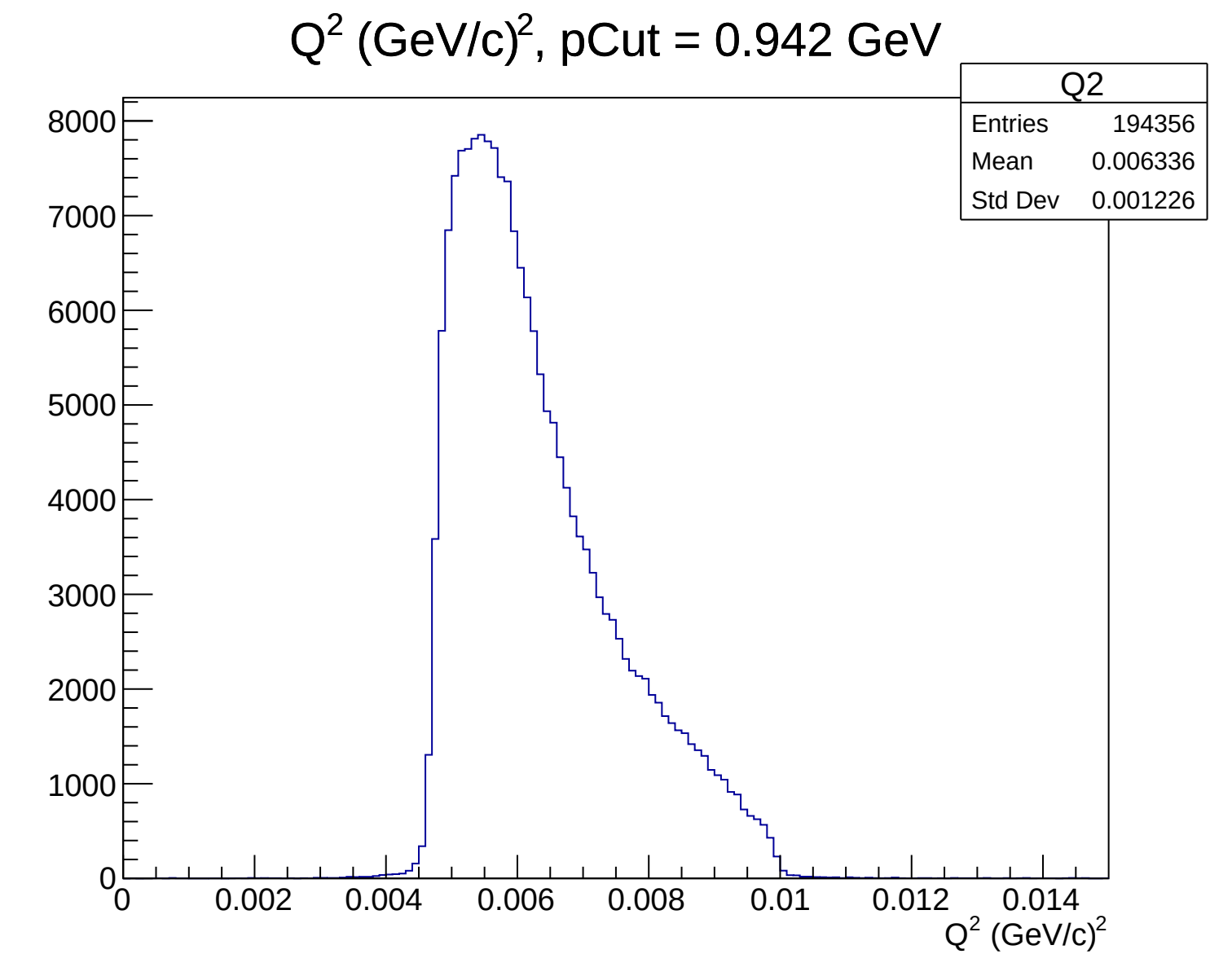

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
16000
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

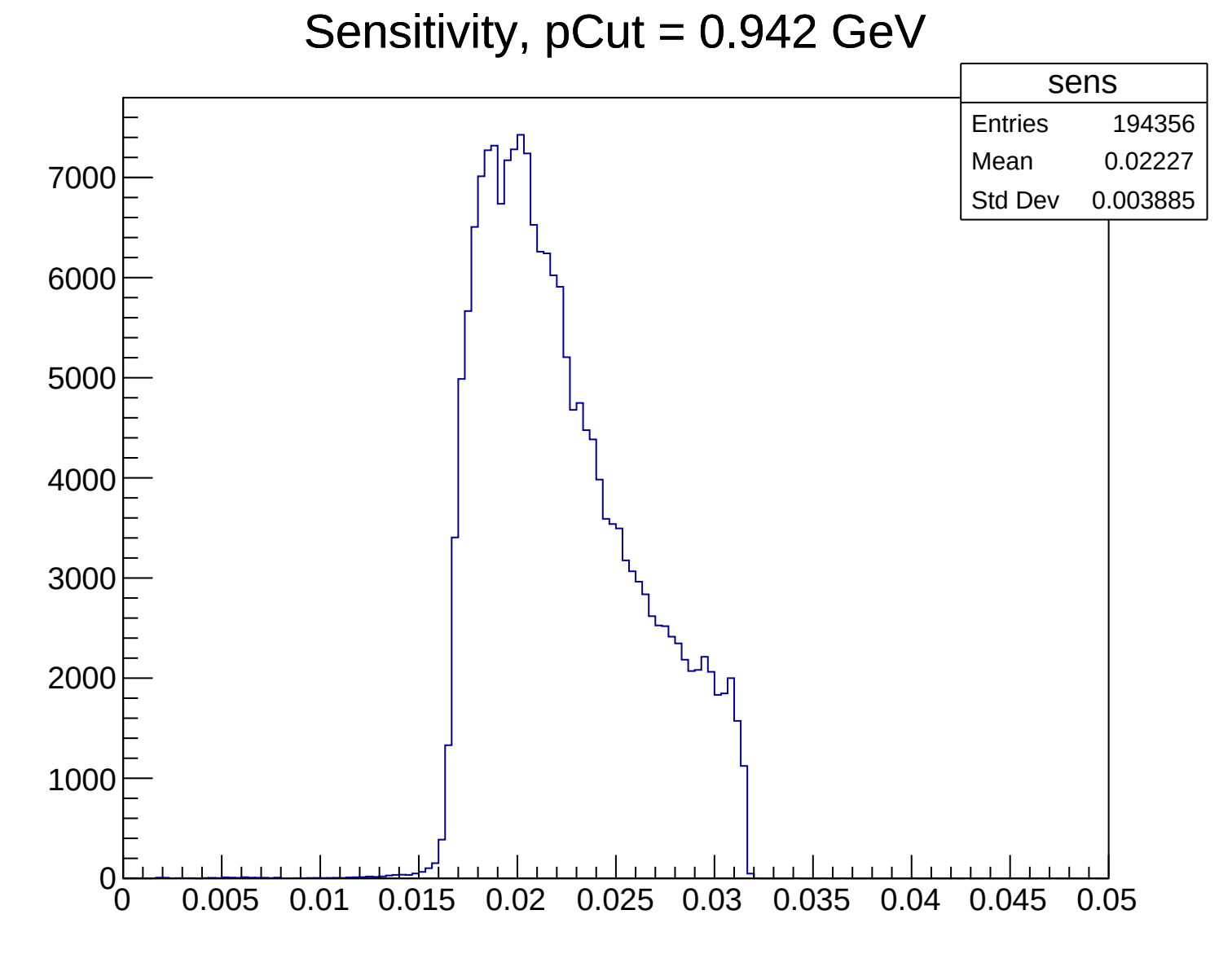

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9415 GeV
16000
14000
12000
10000
8000
6000
4000
2000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

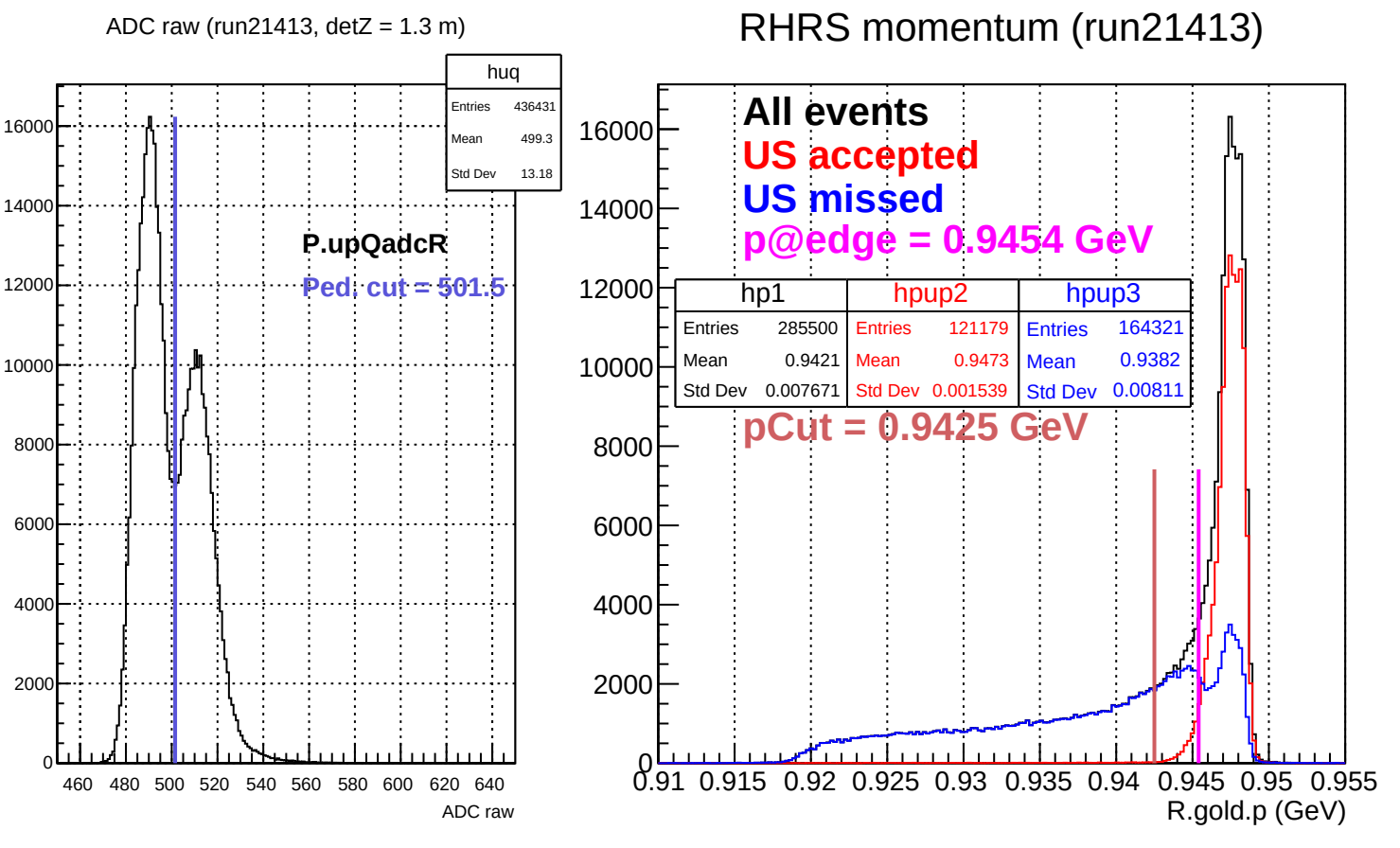

θlab (deg), pCut = 0.942 GeV
Theta
Entries 194356
Mean 4.79
Std Dev 0.4535
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

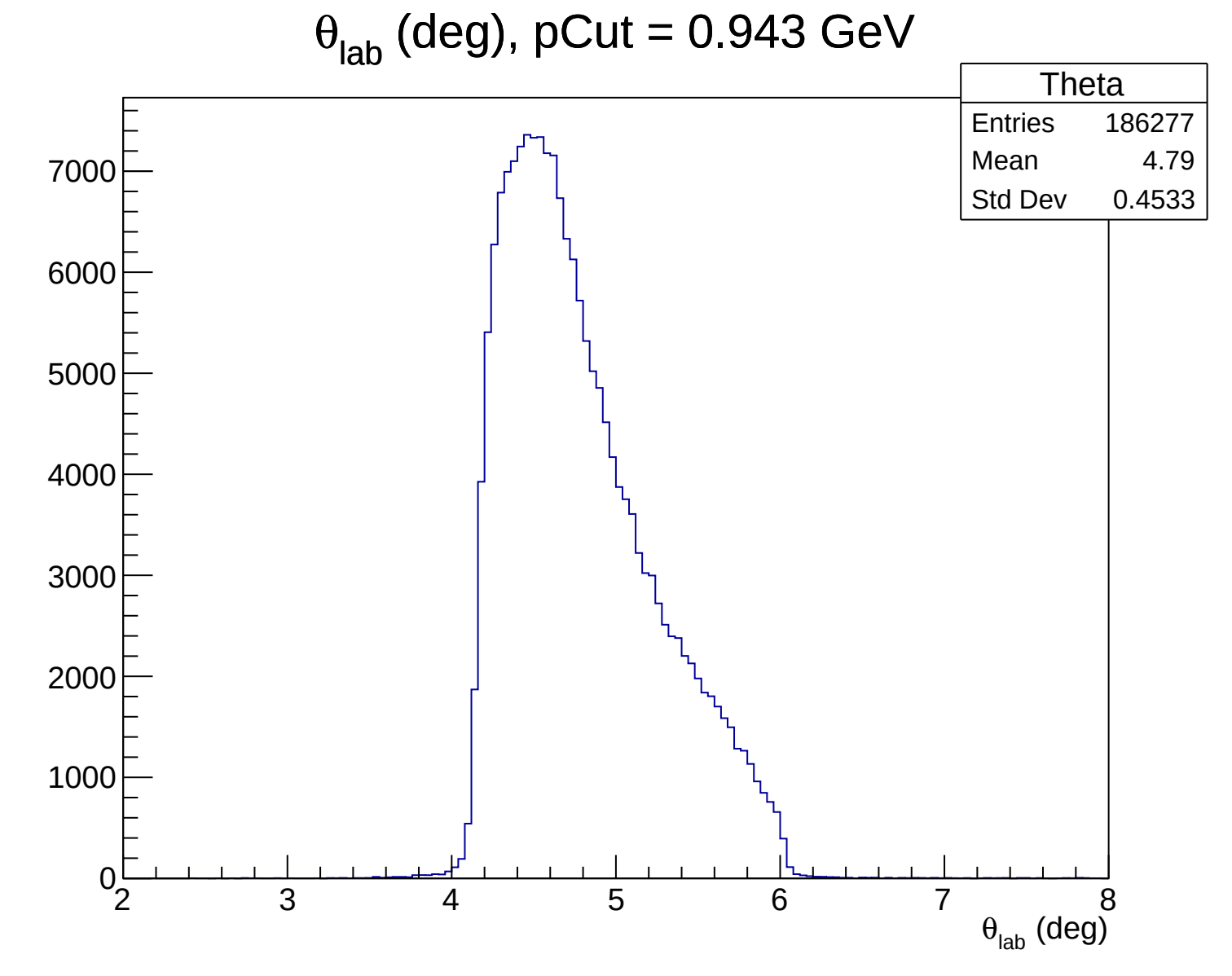

Asymmetry (ppm), pCut = 0.942 GeV
Asym
Entries 194356
Mean 0.5706
Std Dev 0.082
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

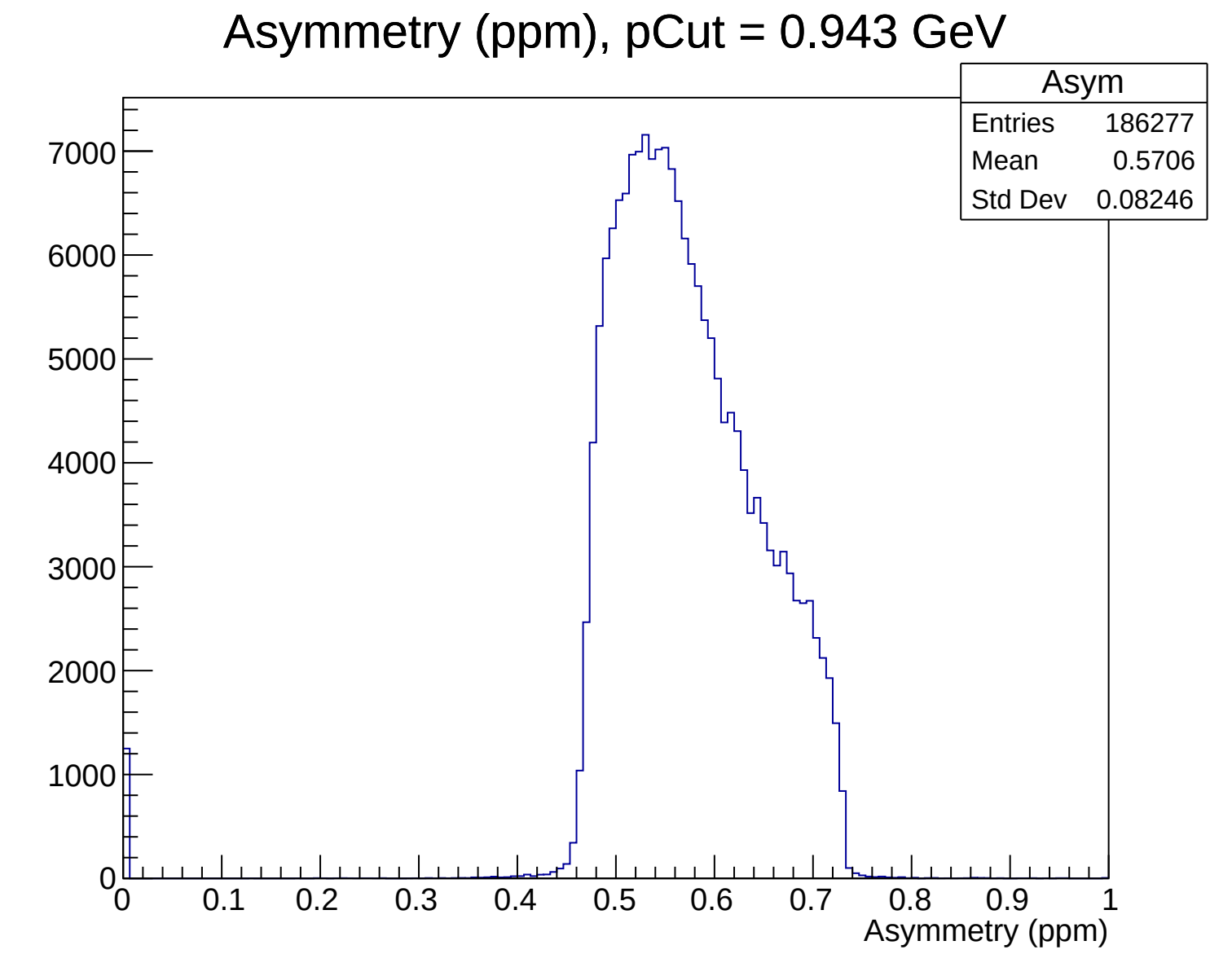

Stretched Asym. (ppm), pCut = 0.942 GeV
SAsym
Entries 194356
Mean 0.5576
Std Dev 0.07828
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

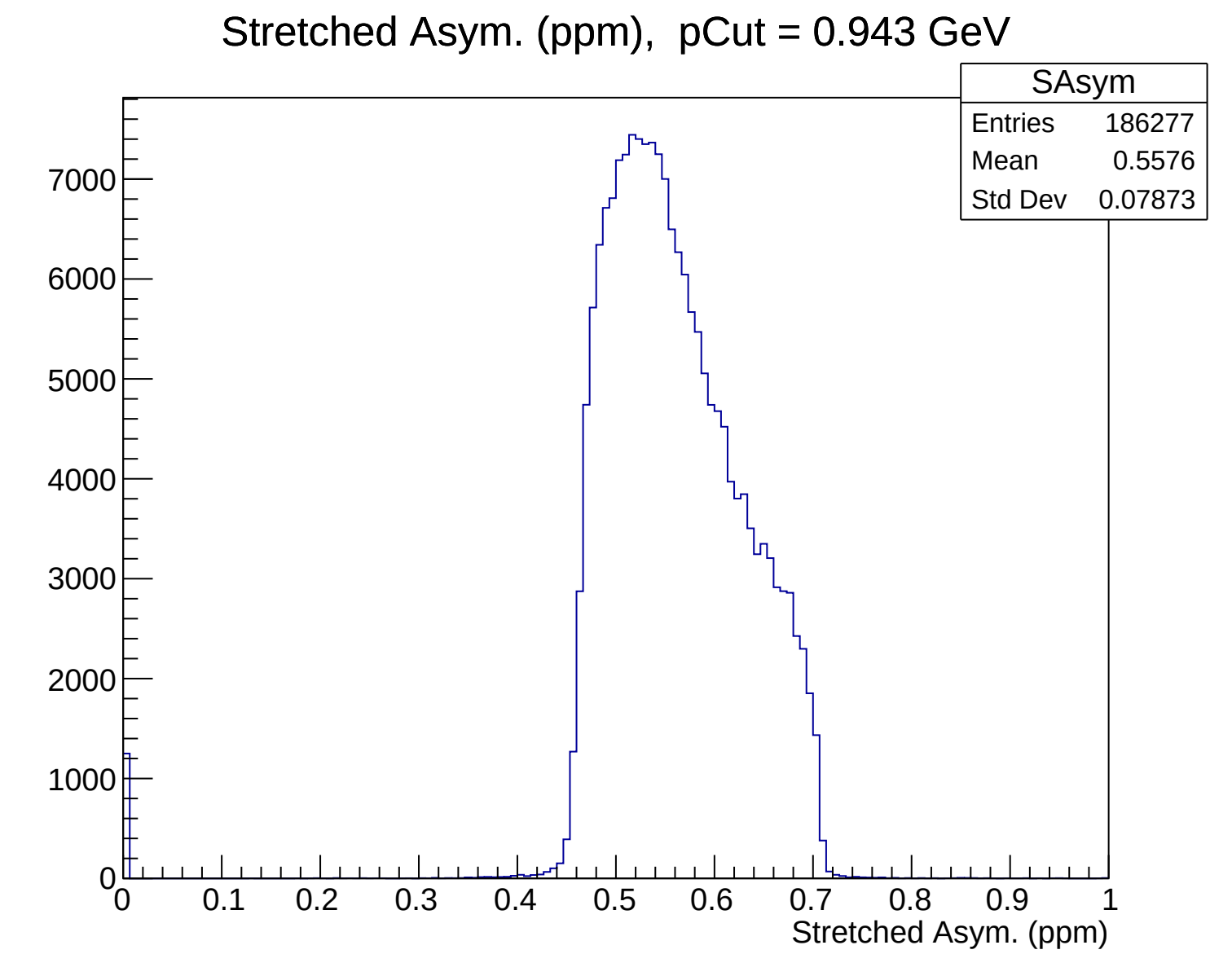

Q^2 (GeV/c)^2, pCut = 0.942 GeV
Q2
Entries 194356
Mean 0.006336
Std Dev 0.001226
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

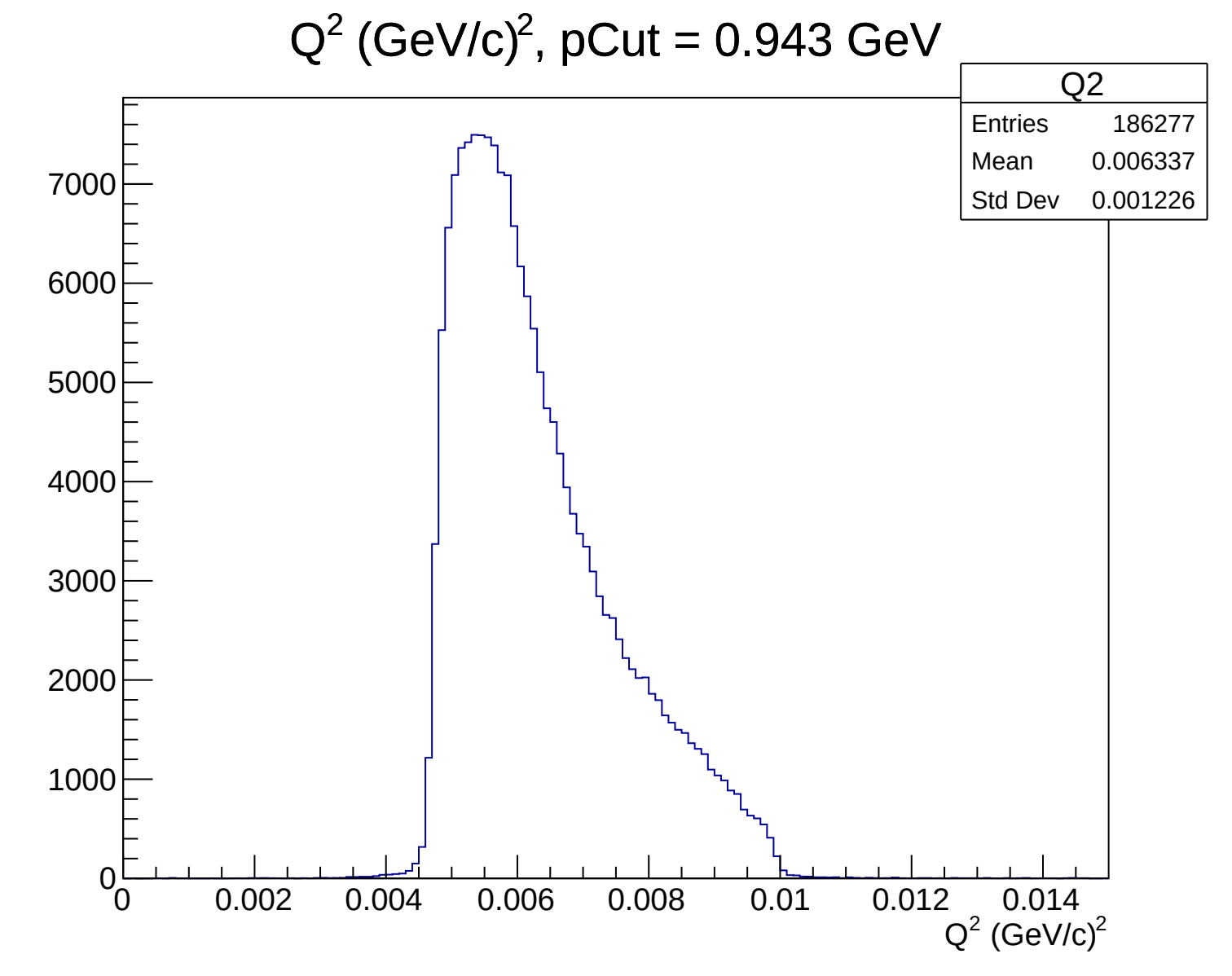

Sensitivity, pCut = 0.942 GeV
sens
Entries 194356
Mean 0.02227
Std Dev 0.003885
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

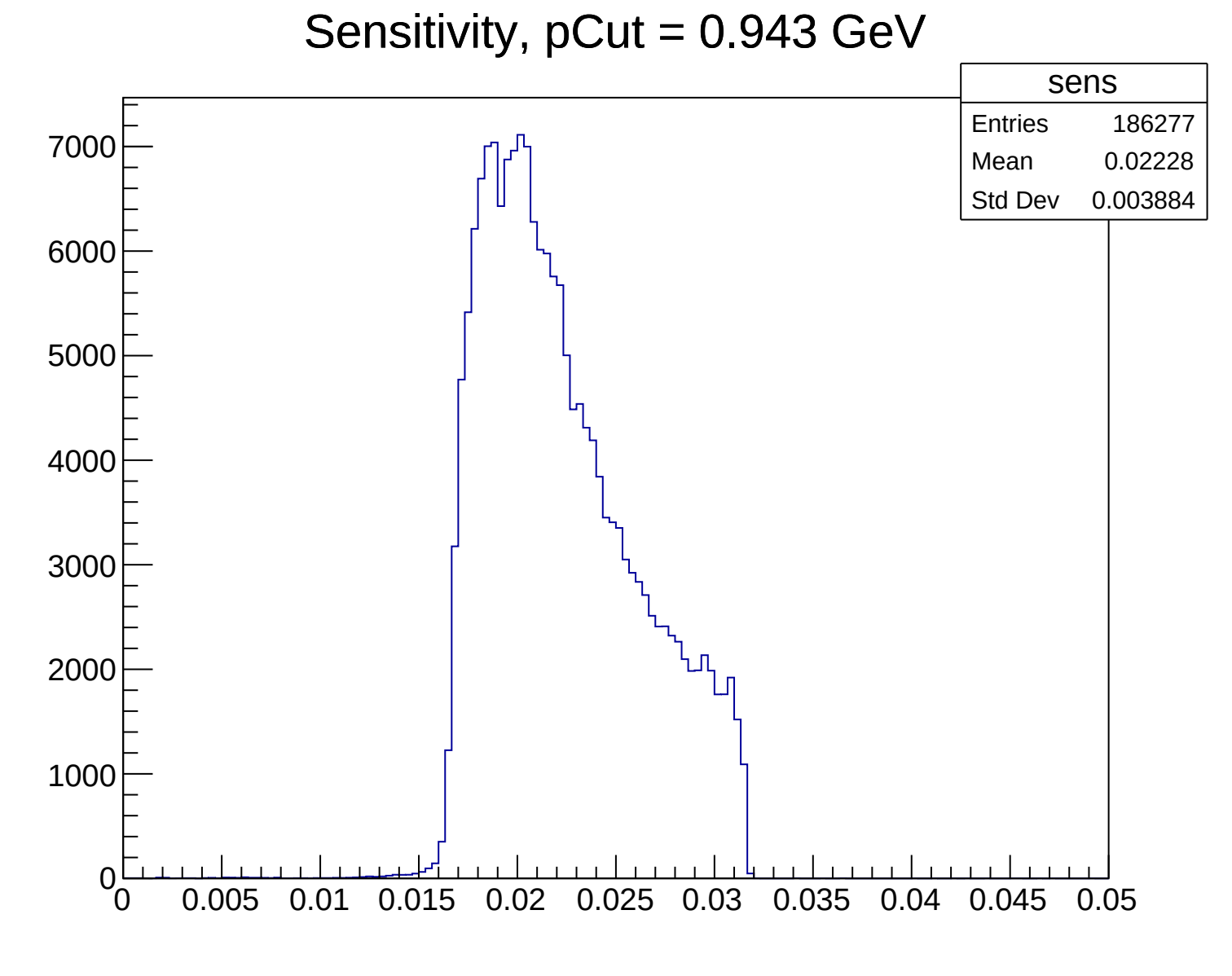

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9425 GeV
R.gold.p (GeV)

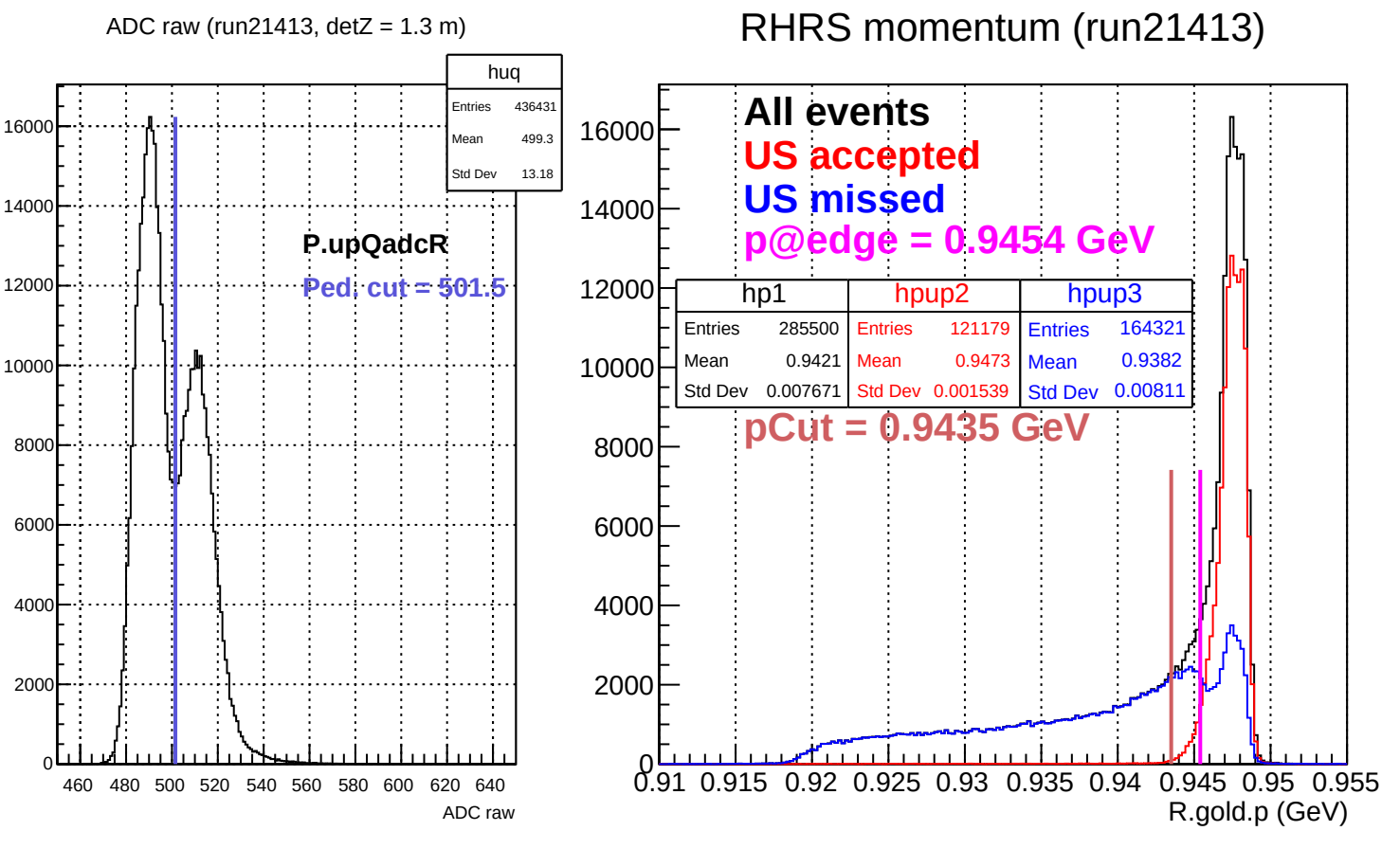

θlab (deg), pCut = 0.943 GeV
Theta
Entries 186277
Mean 4.79
Std Dev 0.4533
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

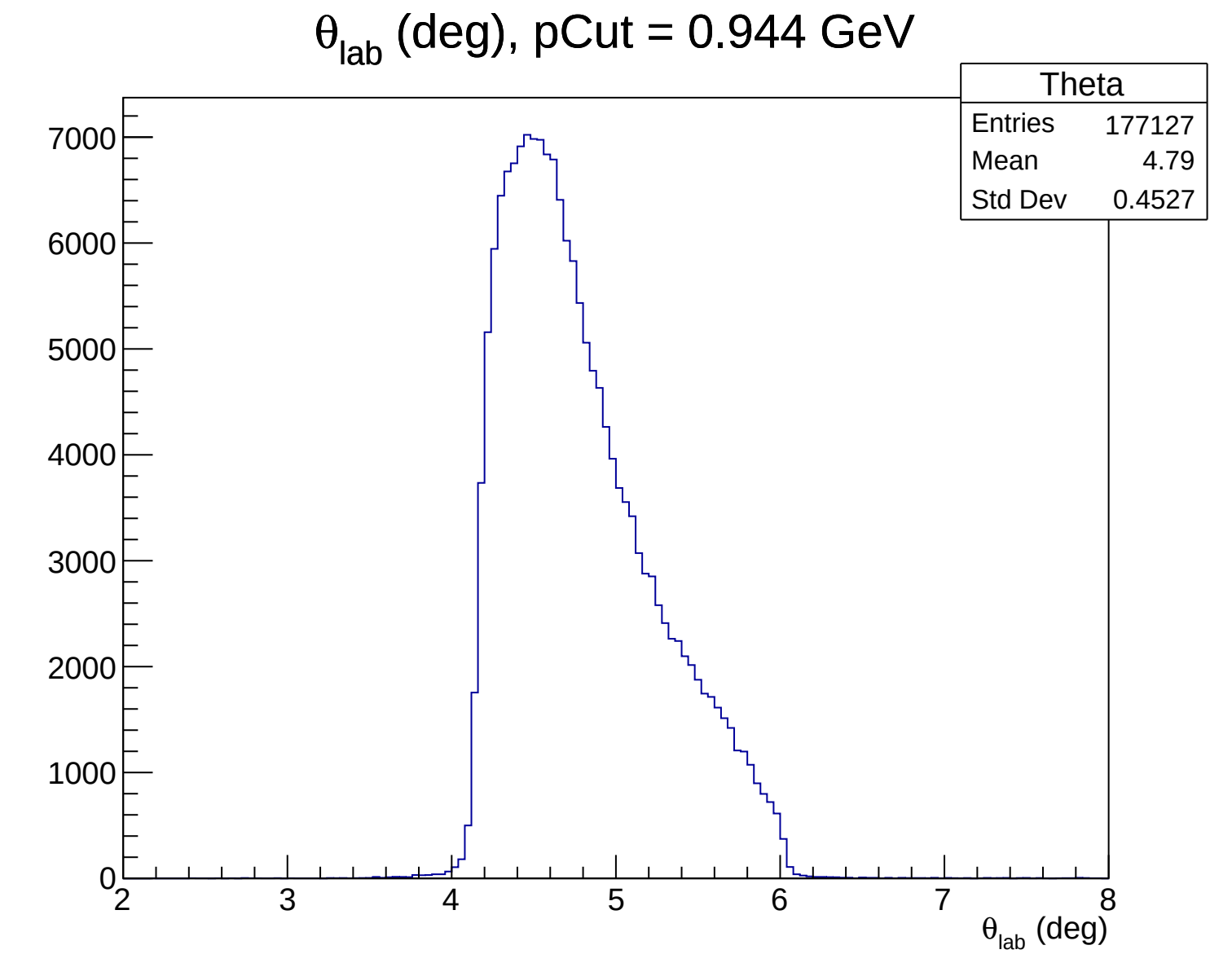

Asymmetry (ppm), pCut = 0.943 GeV
Asym
Entries 186277
Mean 0.5706
Std Dev 0.08246
7000
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

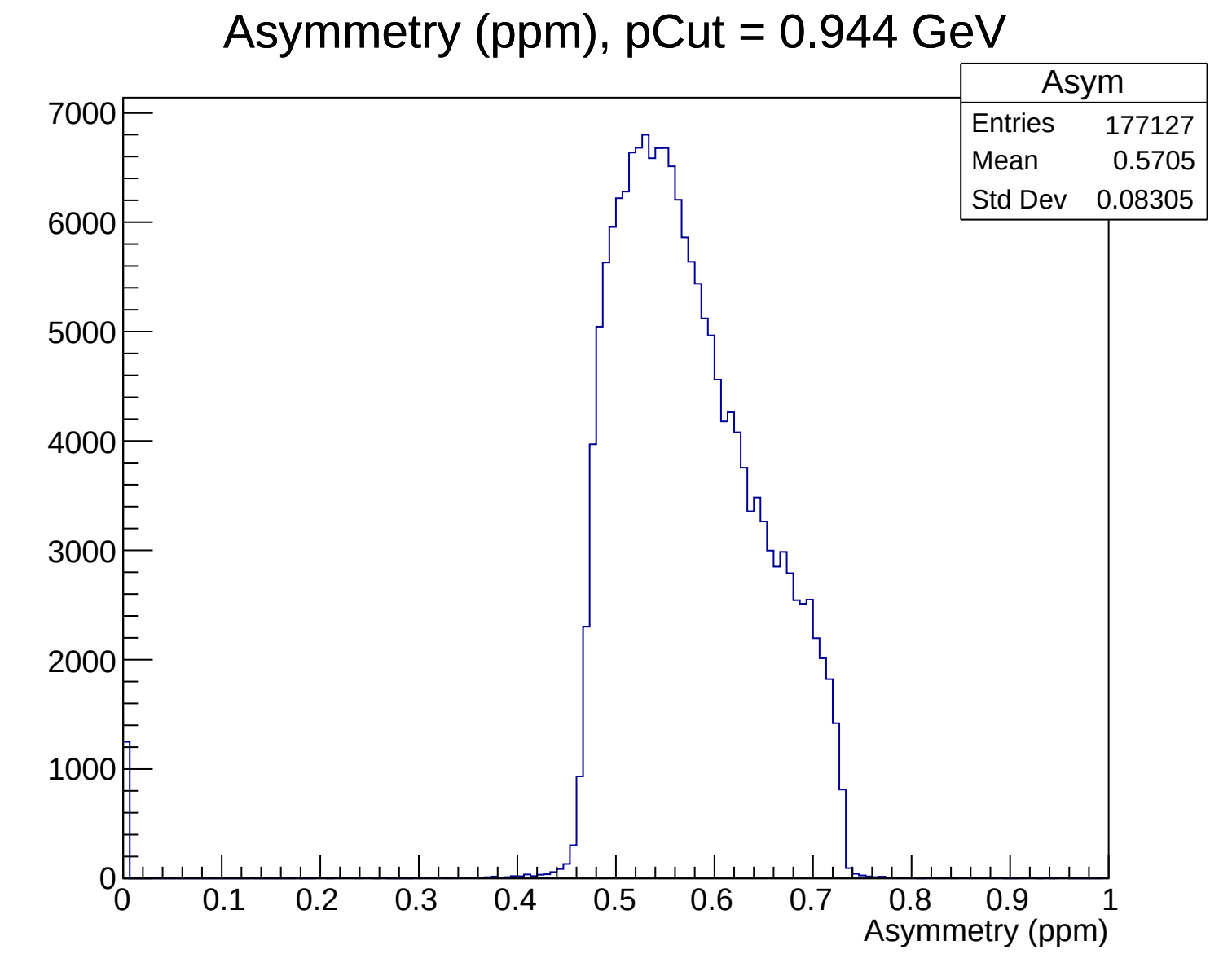

Stretched Asym. (ppm), pCut = 0.943 GeV
SAsym
Entries 186277
Mean 0.5576
Std Dev 0.07873
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

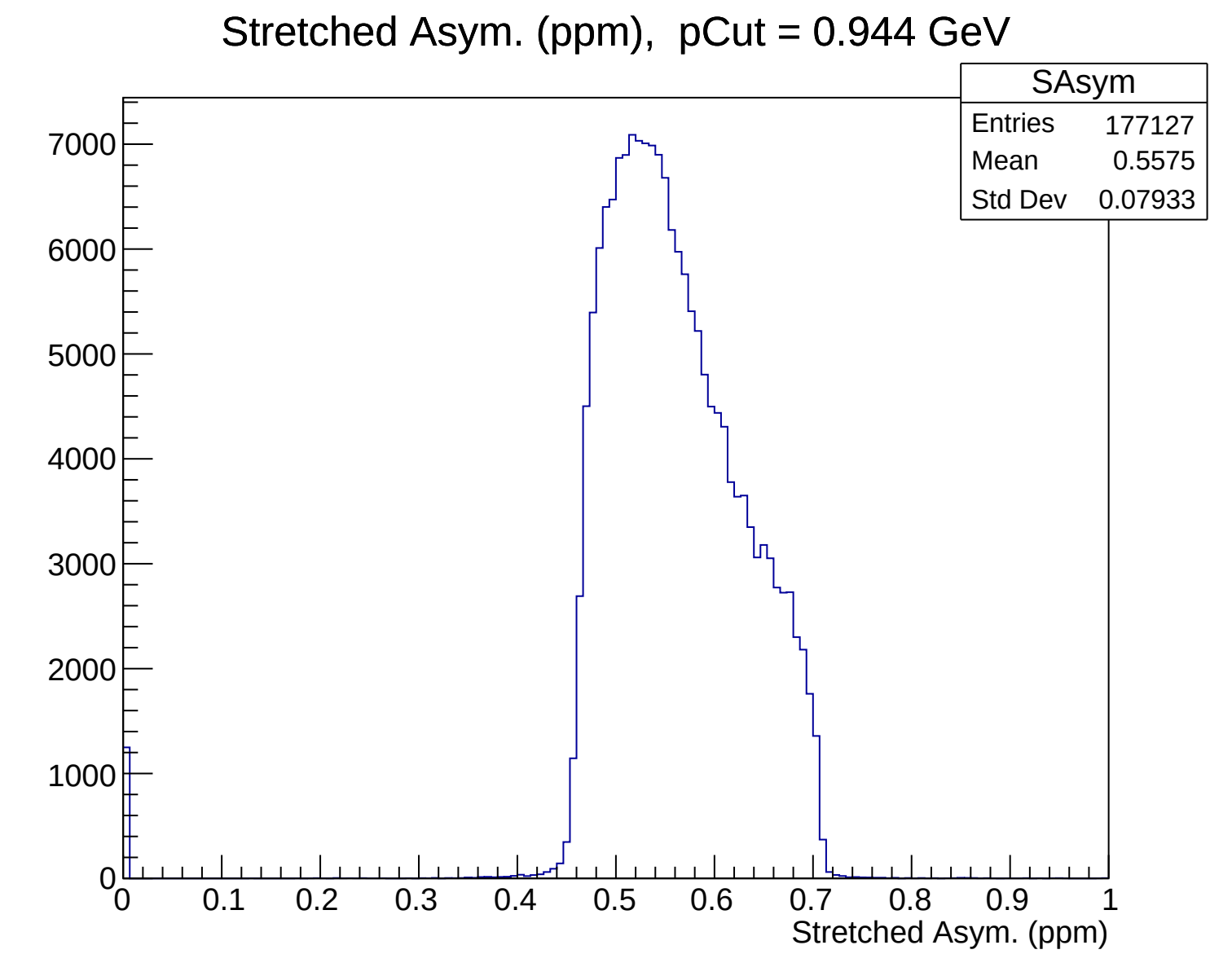

Q^2 (GeV/c)^2, pCut = 0.943 GeV
Q2
Entries 186277
Mean 0.006337
Std Dev 0.001226
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

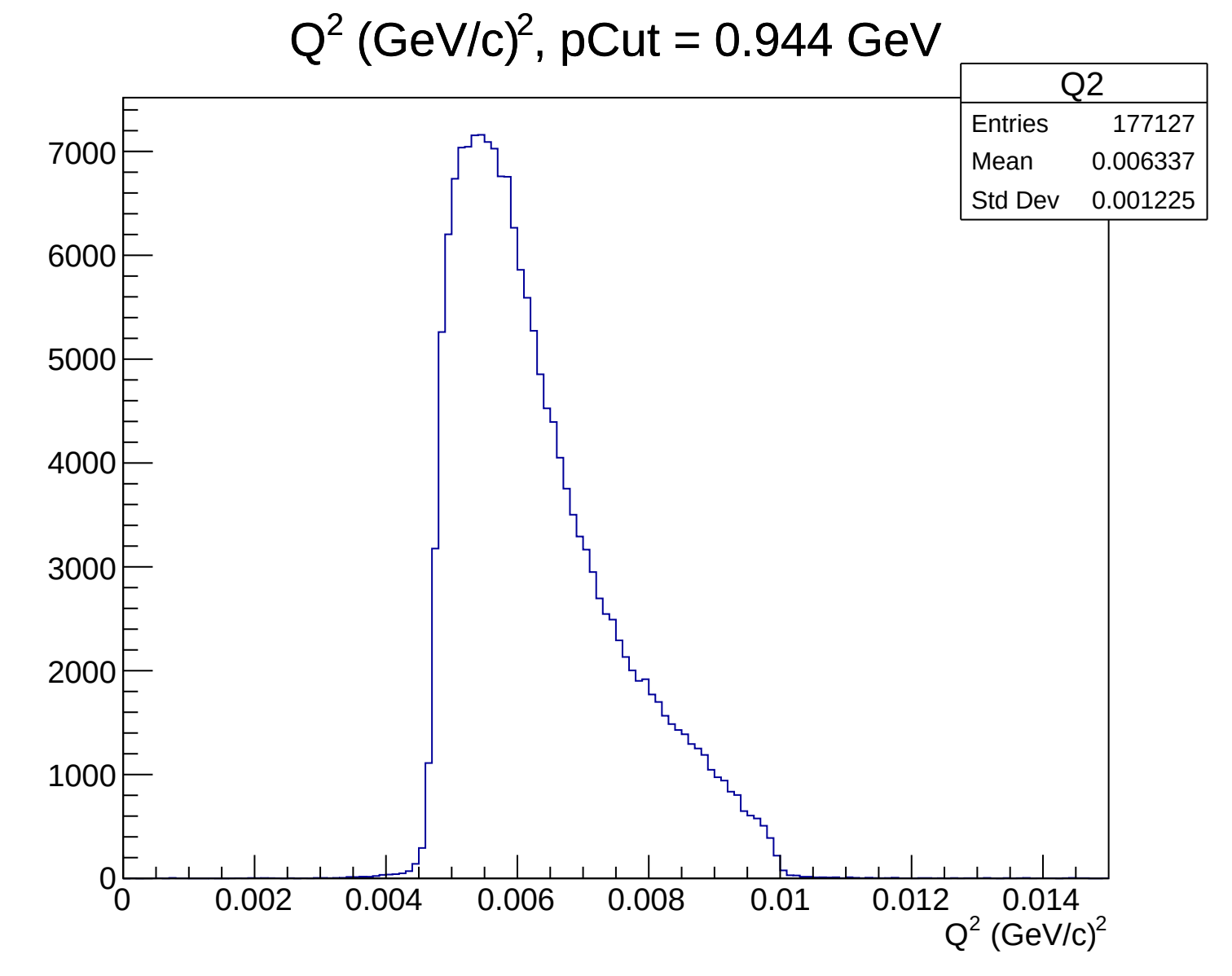

Sensitivity, pCut = 0.943 GeV
sens
Entries 186277
Mean 0.02228
Std Dev 0.003884
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

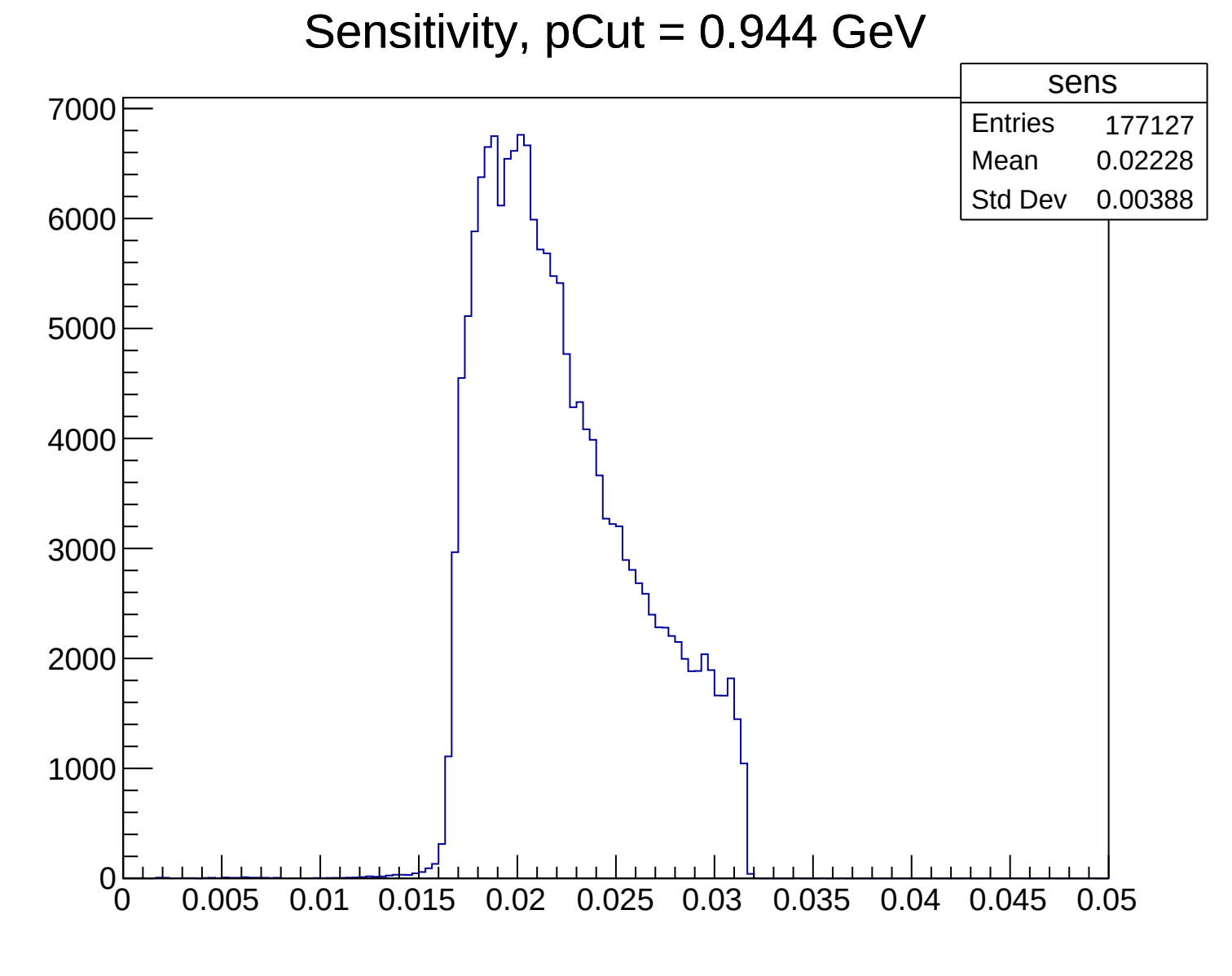

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9435 GeV
R.gold.p (GeV)

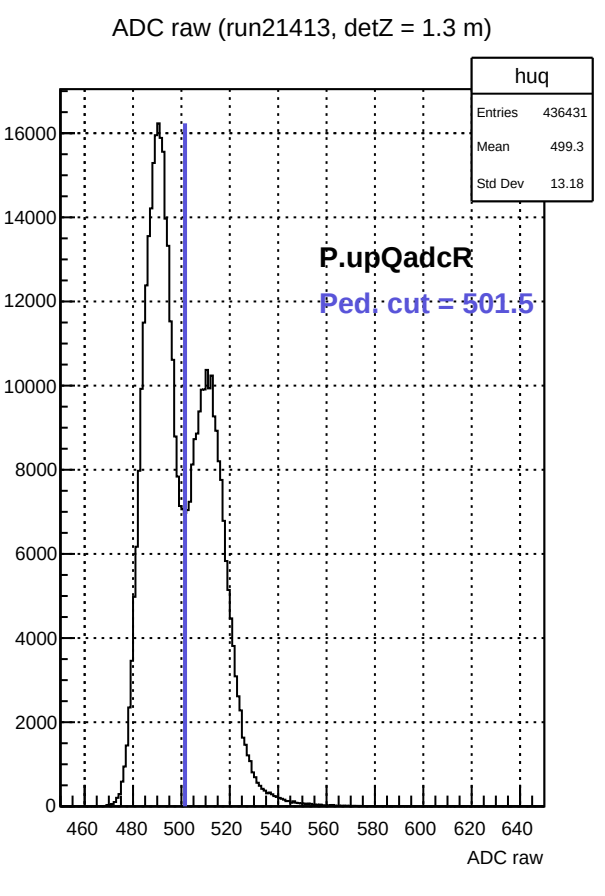

θlab (deg), pCut = 0.944 GeV
Theta
Entries 177127
Mean 4.79
Std Dev 0.4527
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

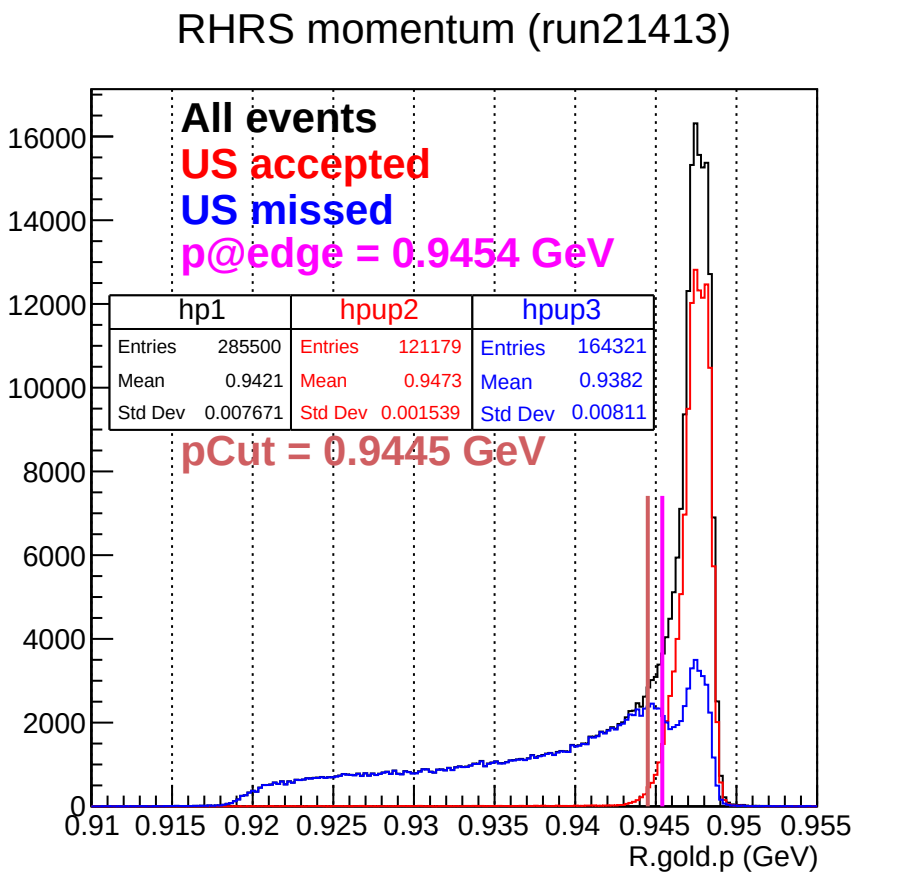

Asymmetry (ppm), pCut = 0.944 GeV
Asym
Entries 177127
Mean 0.5705
Std Dev 0.08305
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

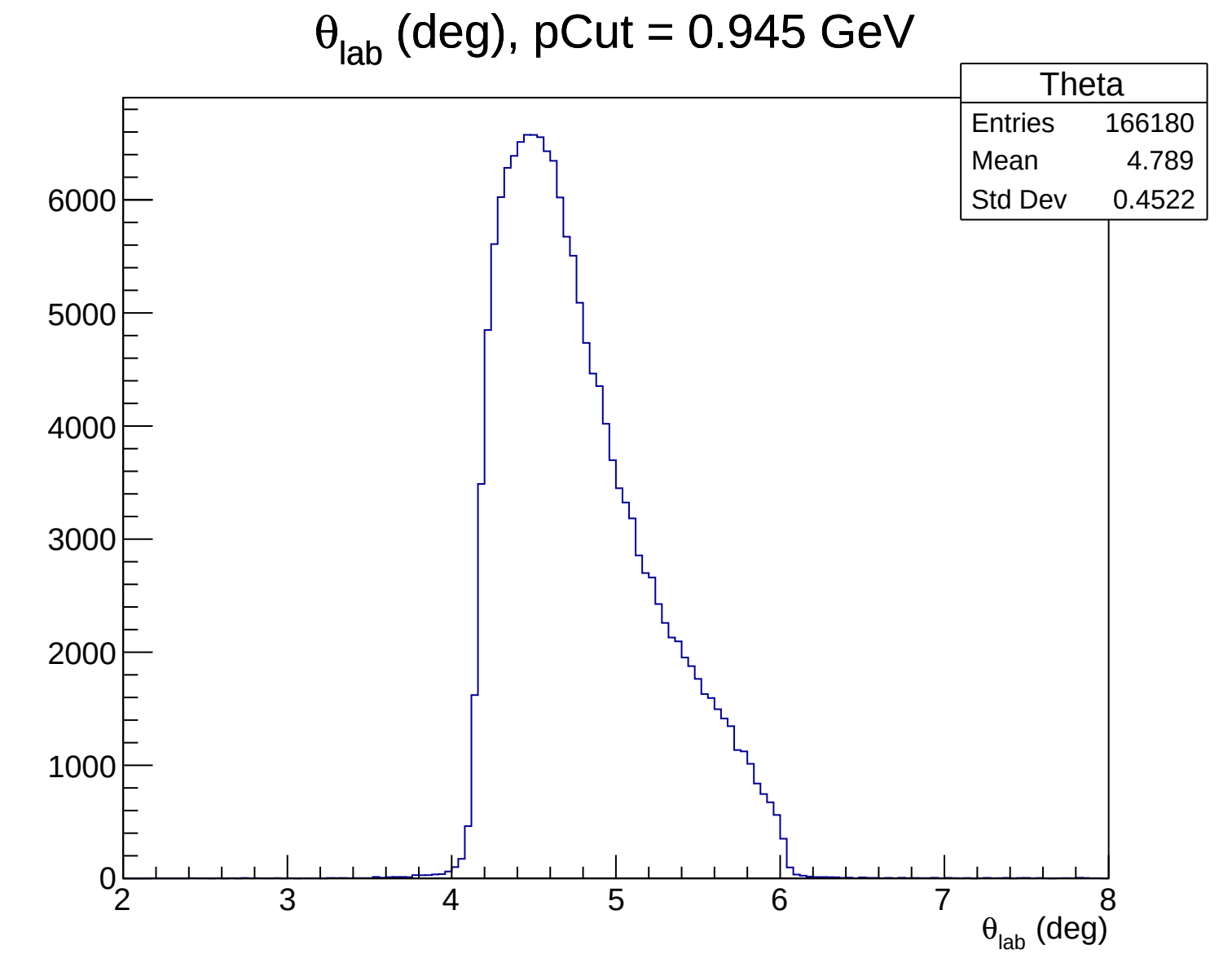

Stretched Asym. (ppm), pCut = 0.944 GeV
SAsym
Entries 177127
Mean 0.5575
Std Dev 0.07933
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

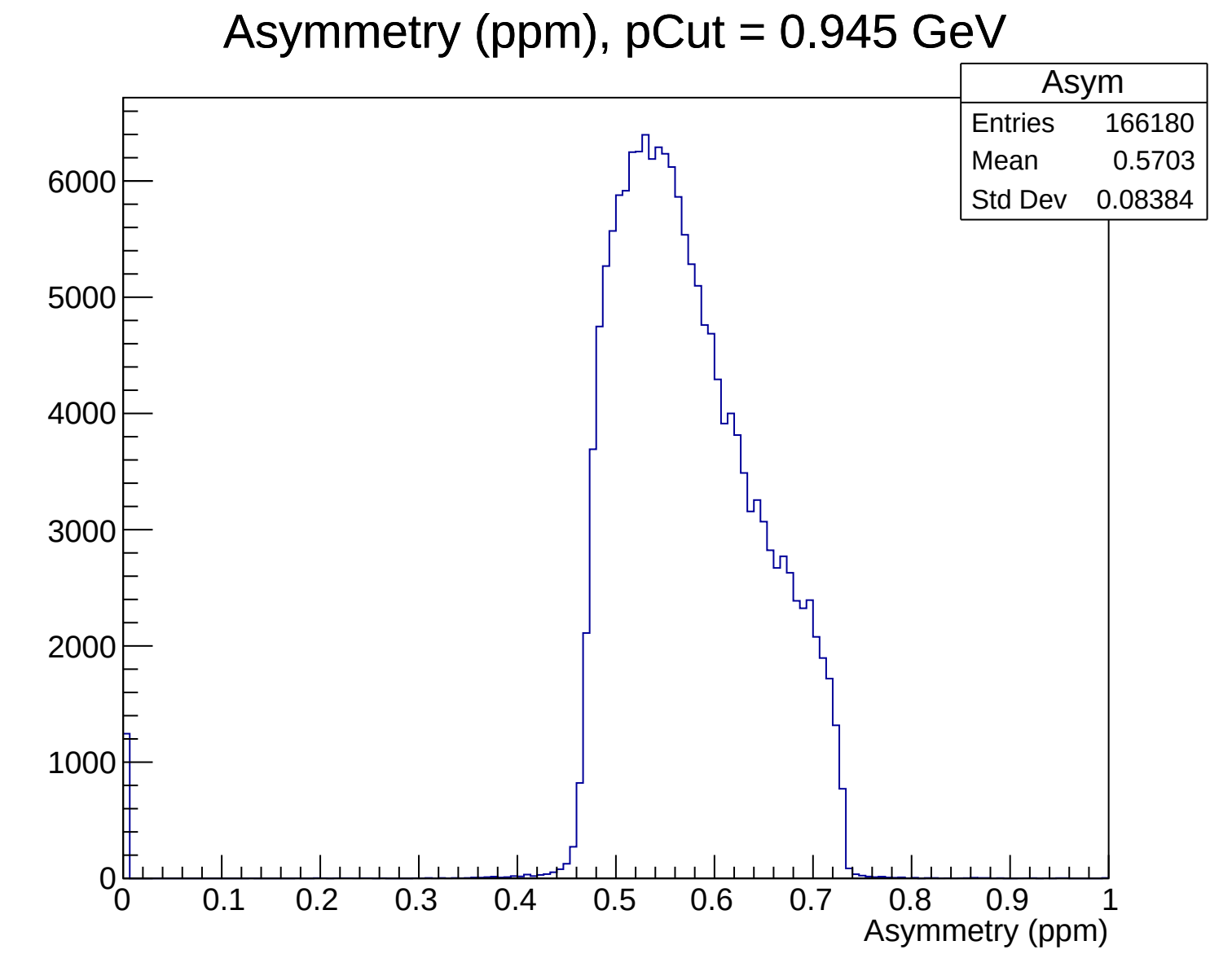

Q^2 (GeV/c)^2, pCut = 0.944 GeV
Q2
Entries 177127
Mean 0.006337
Std Dev 0.001225
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

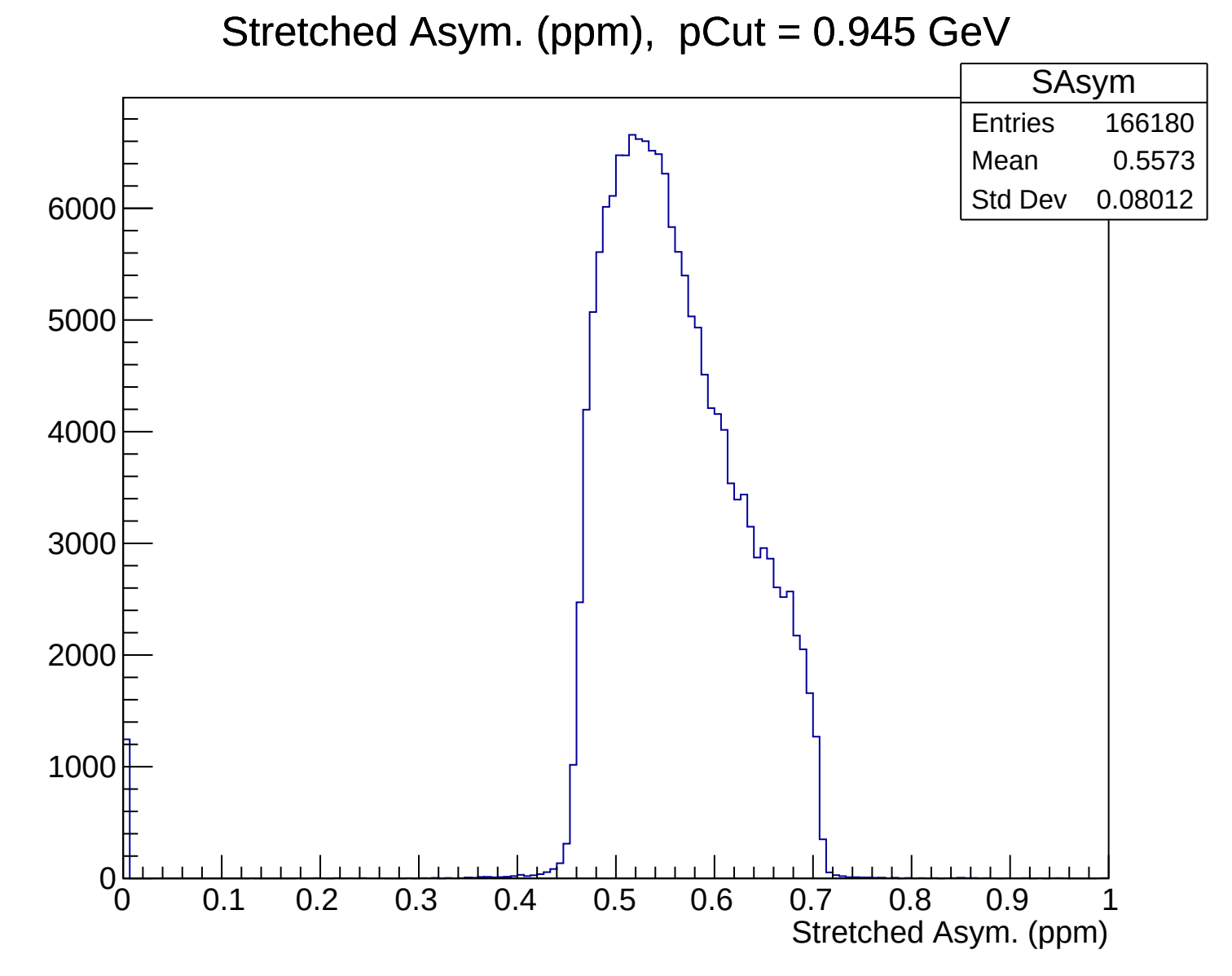

Sensitivity, pCut = 0.944 GeV
sens
Entries 177127
Mean 0.02228
Std Dev 0.00388
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

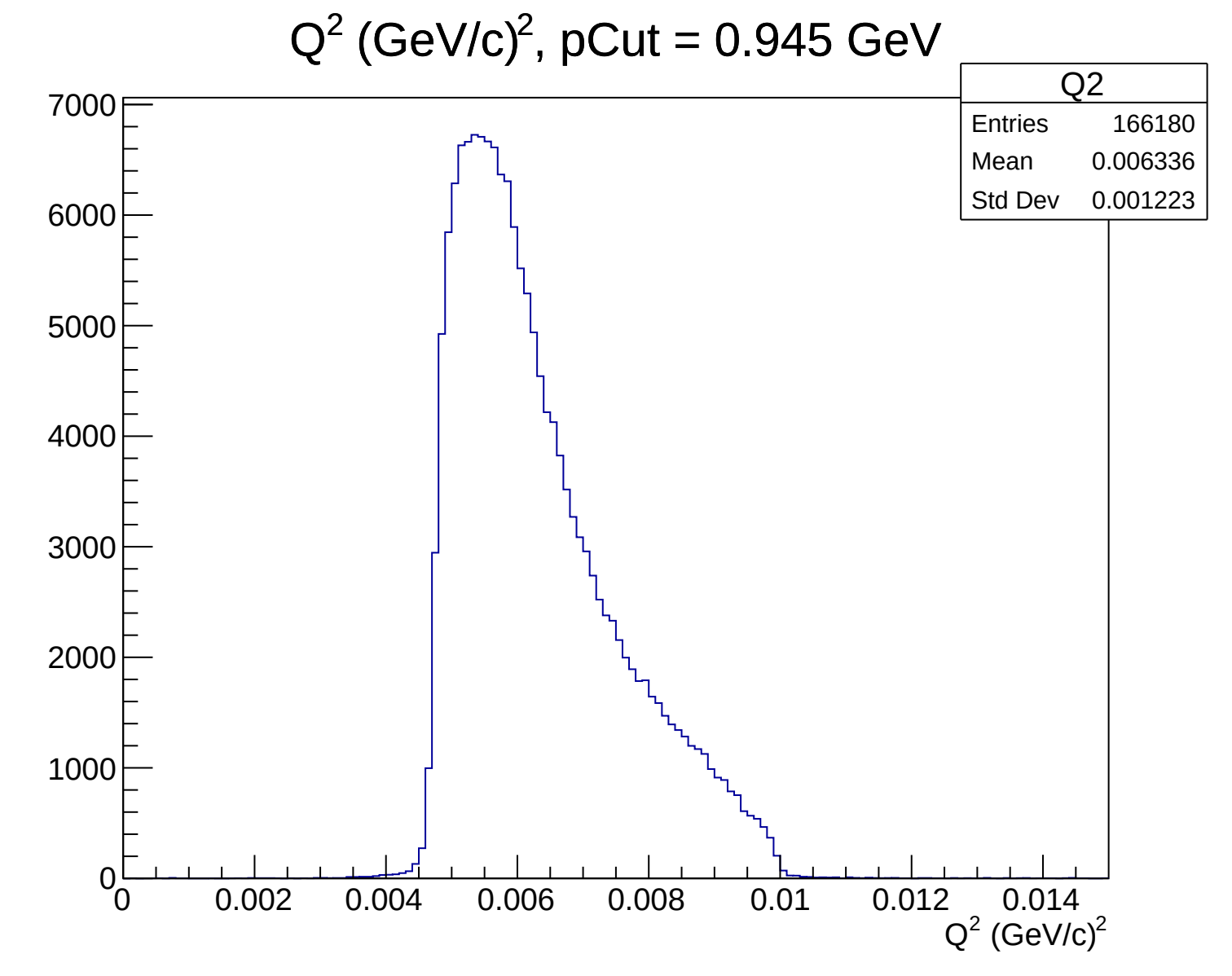

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
16000
14000
12000
10000
8000
6000
4000
2000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

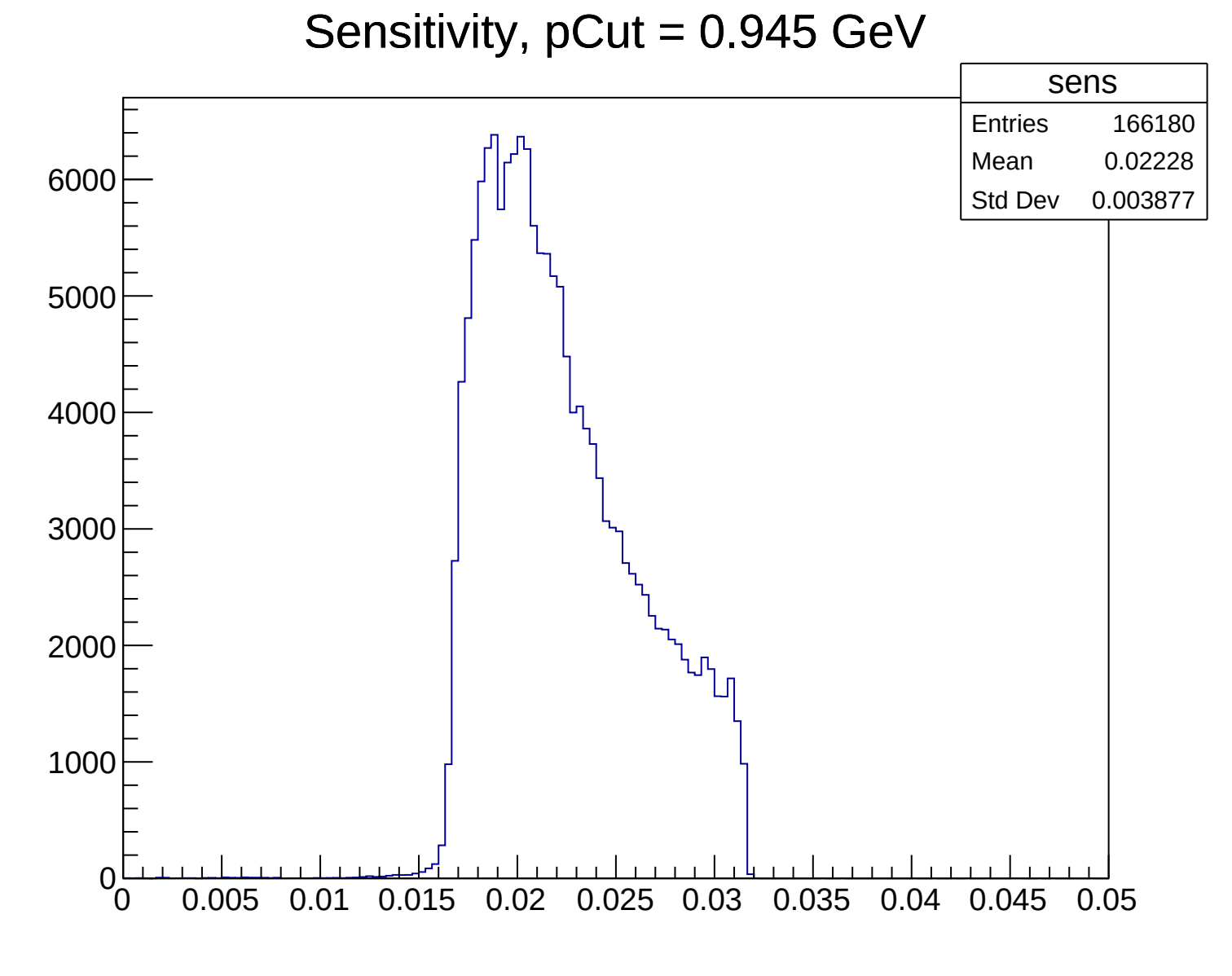

RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9445 GeV
16000
14000
12000
10000
8000
6000
4000
2000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

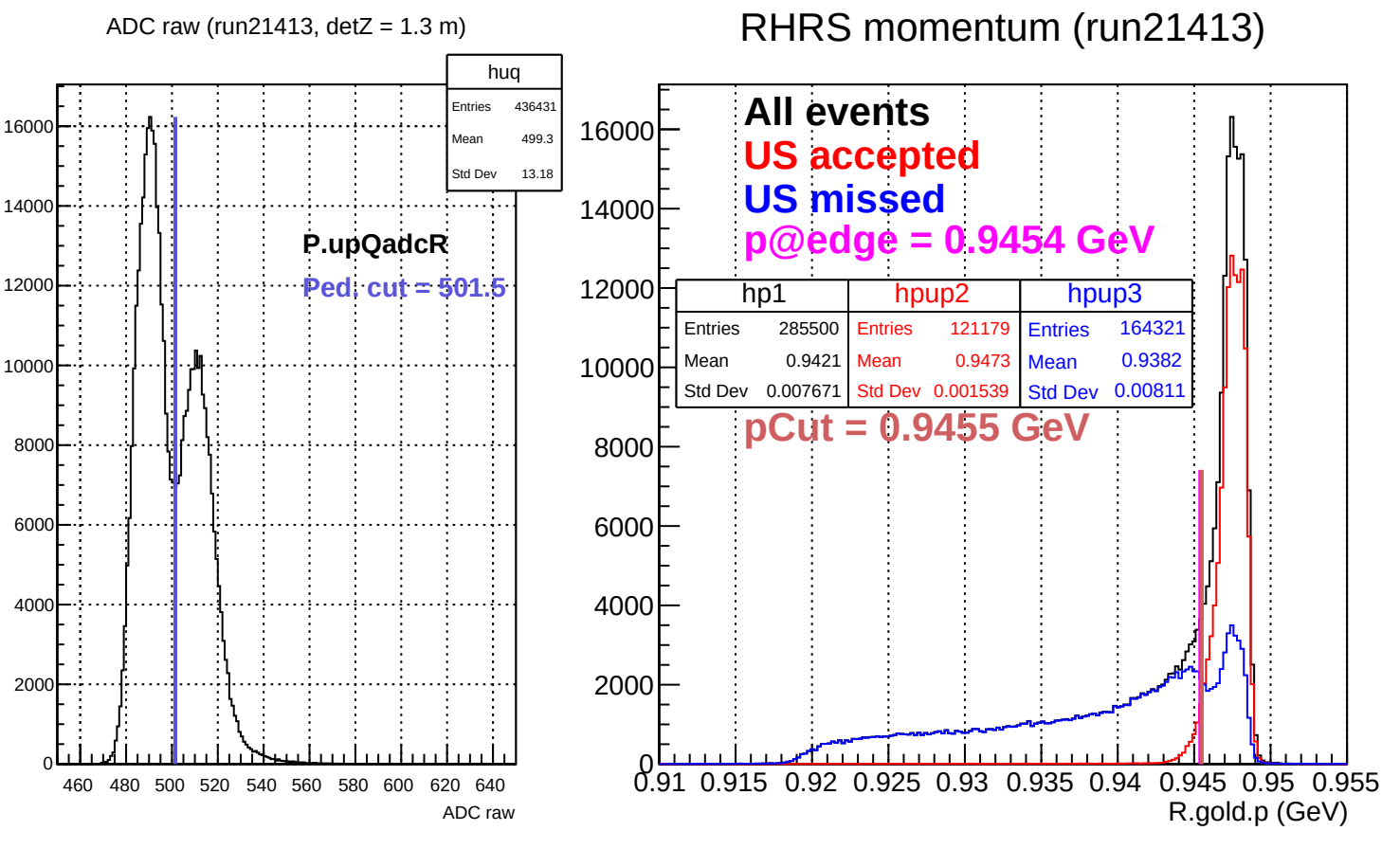

θlab (deg), pCut = 0.945 GeV
Theta
Entries 166180
Mean 4.789
Std Dev 0.4522
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

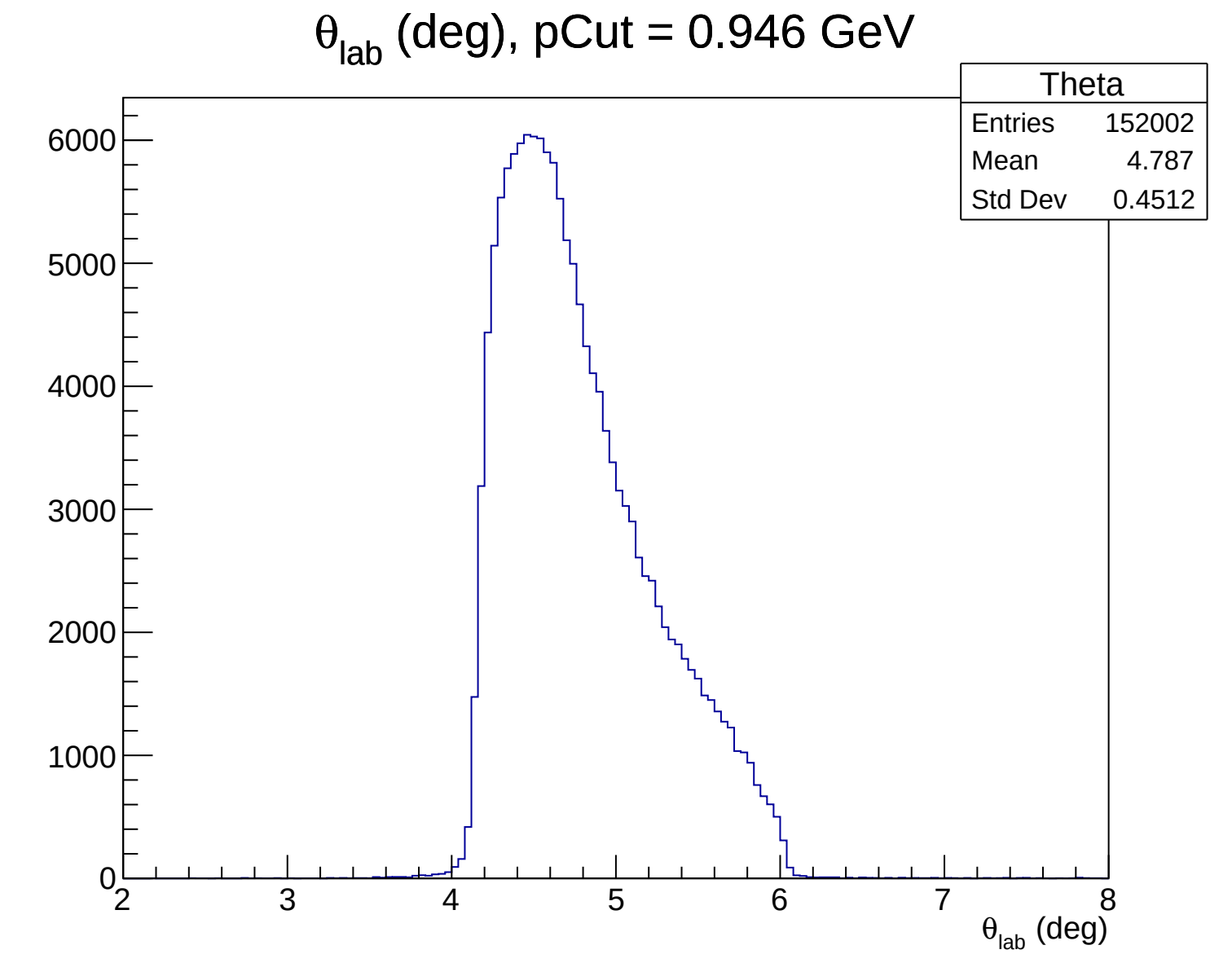

Asymmetry (ppm), pCut = 0.945 GeV
Asym
Entries 166180
Mean 0.5703
Std Dev 0.08384
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

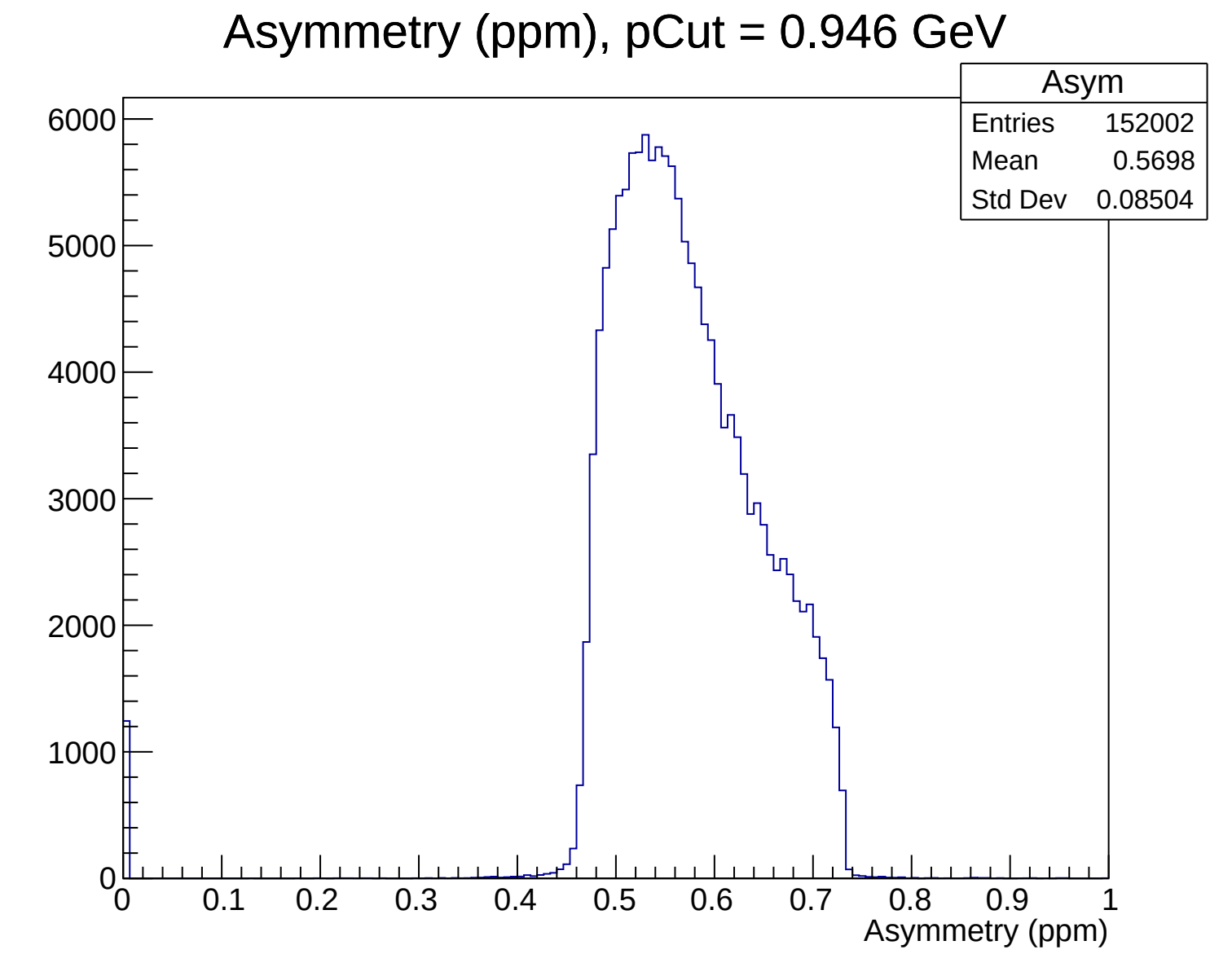

Stretched Asym. (ppm), pCut = 0.945 GeV
SAsym
Entries 166180
Mean 0.5573
Std Dev 0.08012
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

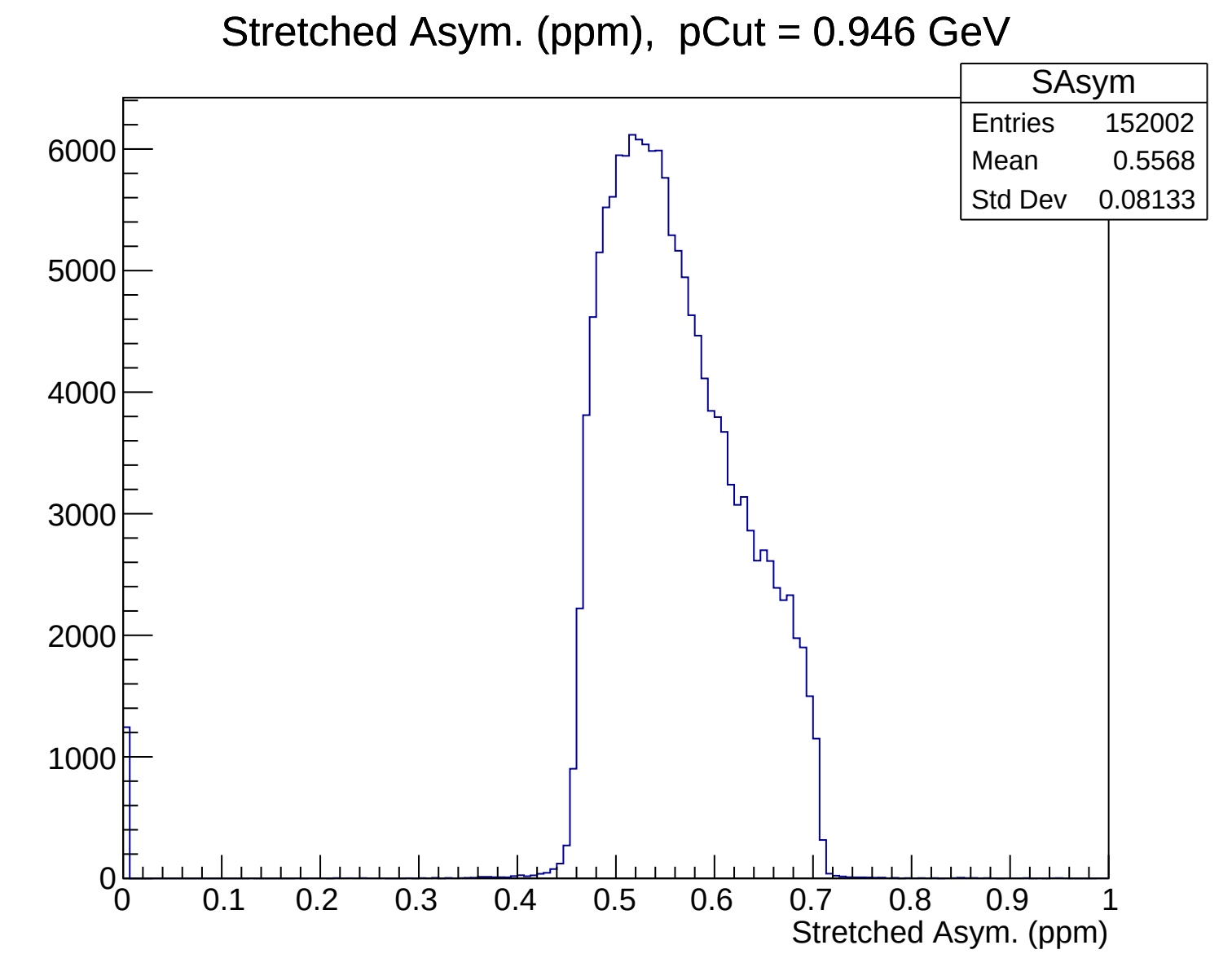

Q^2 (GeV/c)^2, pCut = 0.945 GeV
Q2
Entries 166180
Mean 0.006336
Std Dev 0.001223
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

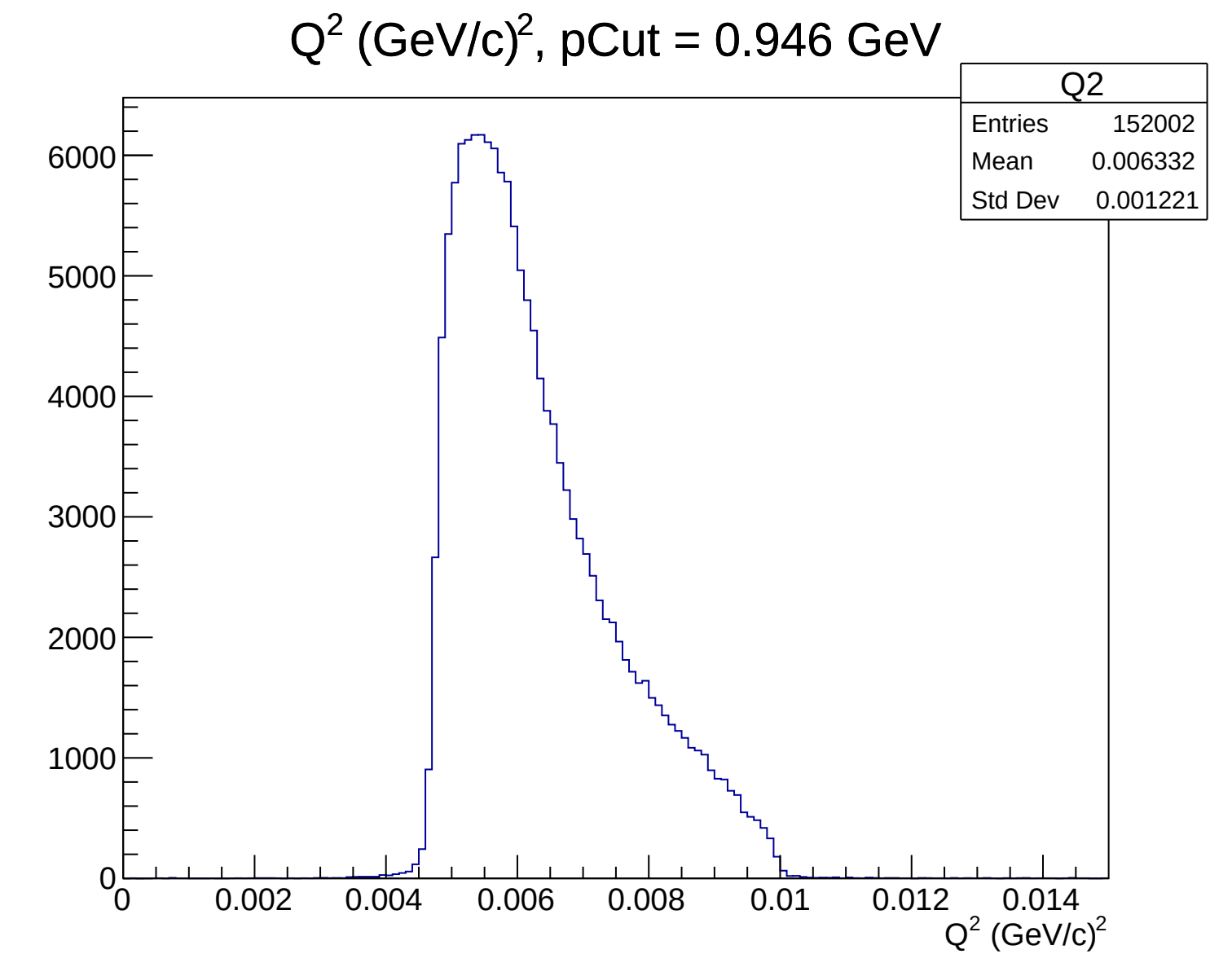

Sensitivity, pCut = 0.945 GeV
sens
Entries 166180
Mean 0.02228
Std Dev 0.003877
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

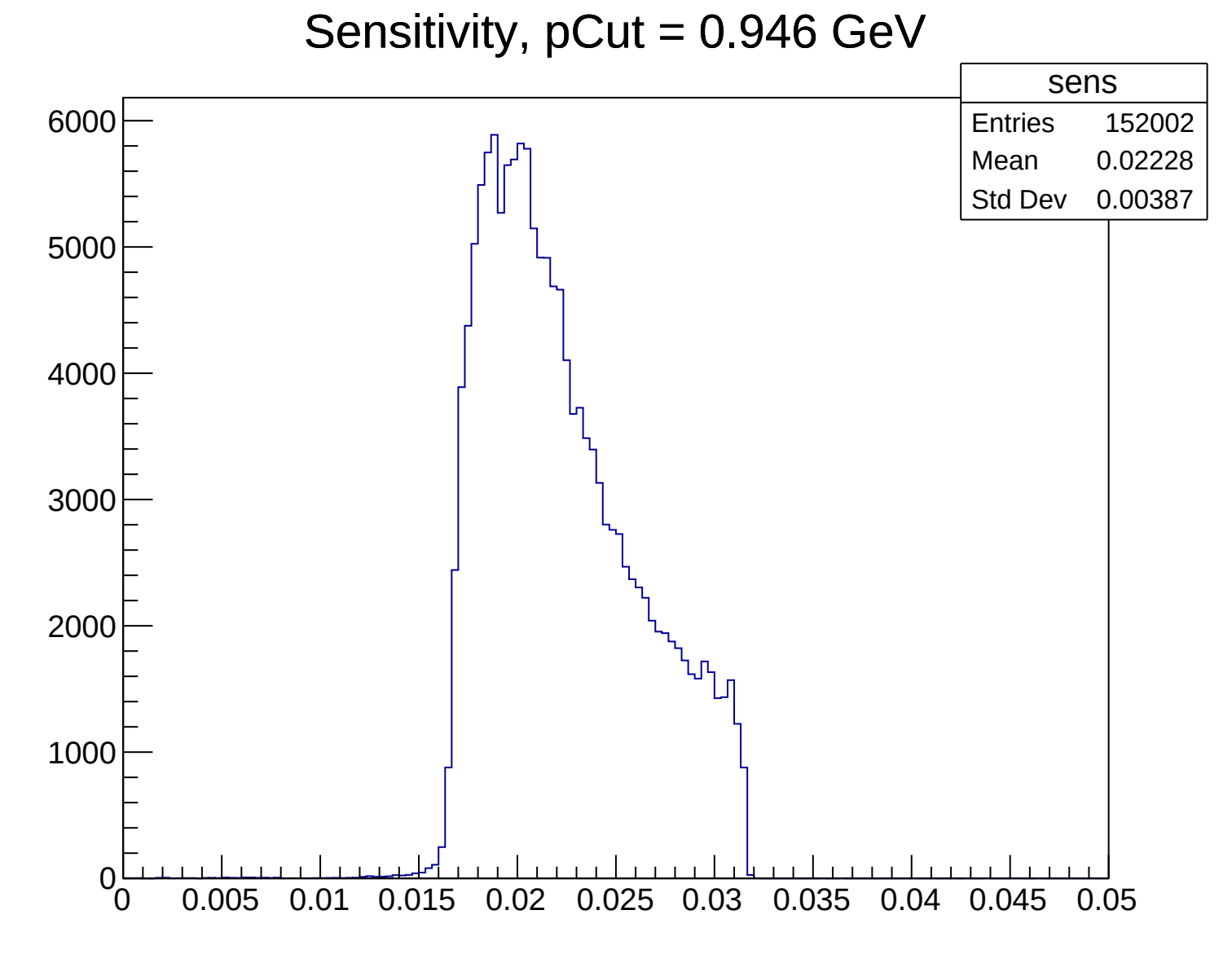

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9455 GeV
R.gold.p (GeV)

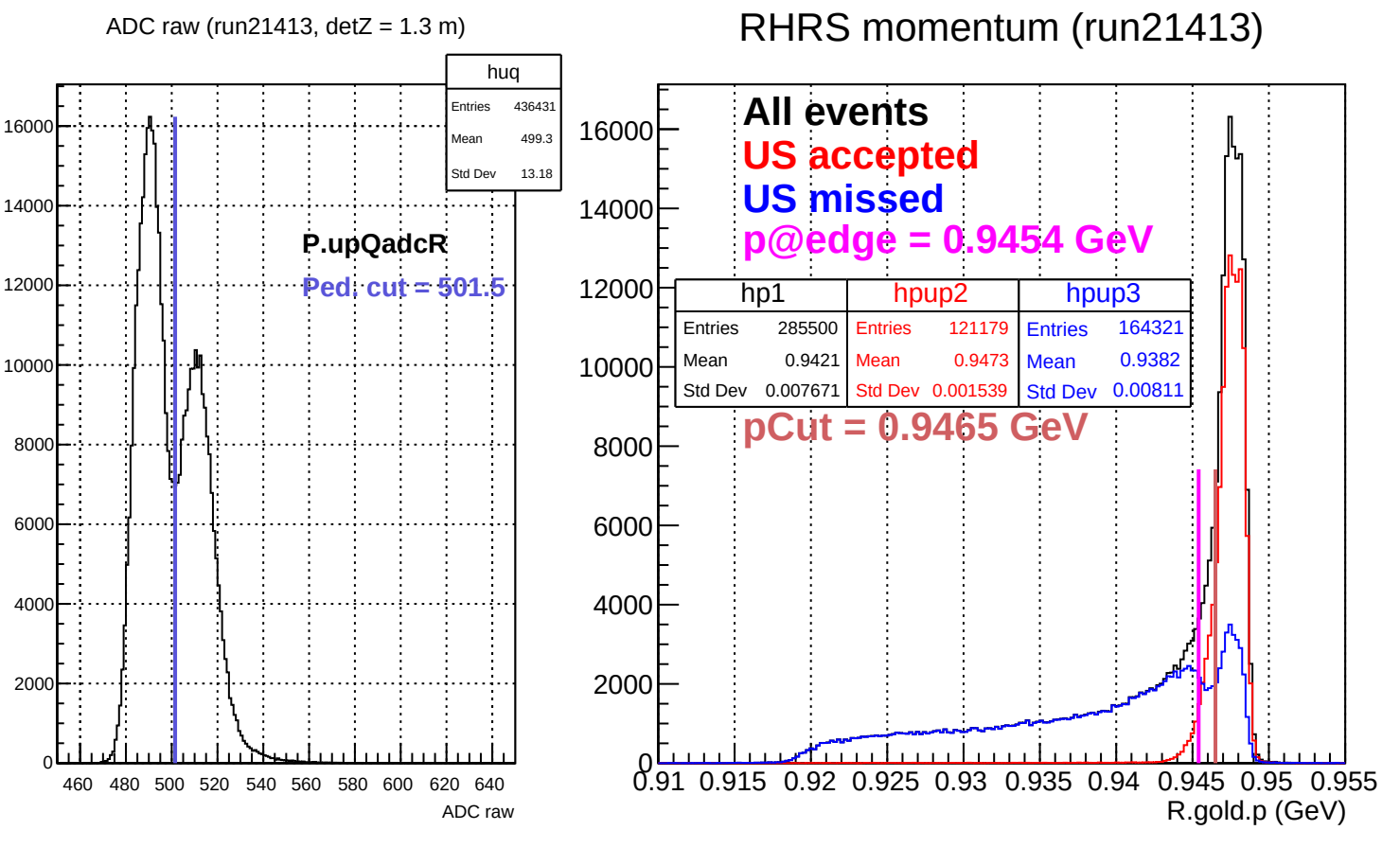

θlab (deg), pCut = 0.946 GeV
Theta
Entries 152002
Mean 4.787
Std Dev 0.4512
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

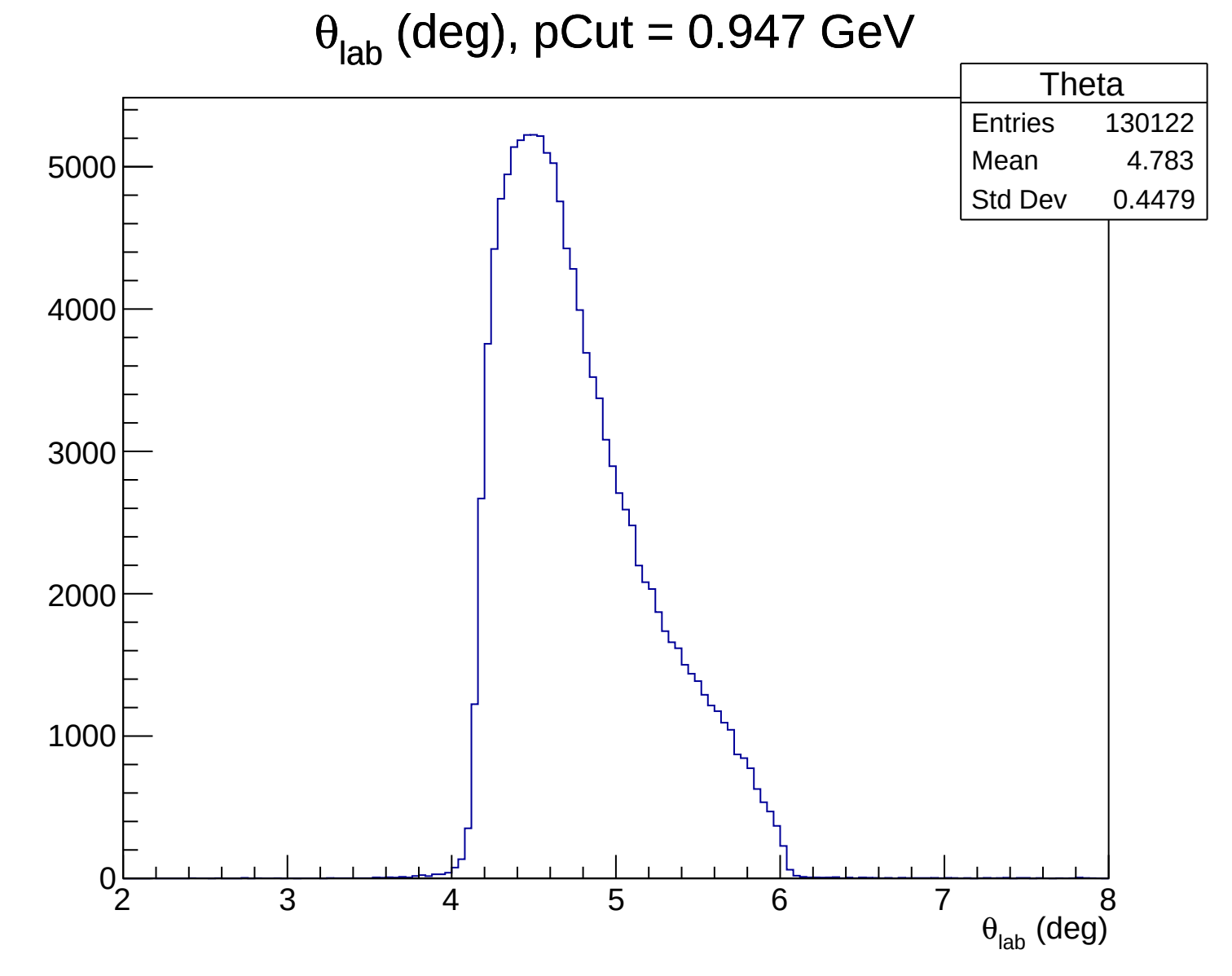

Asymmetry (ppm), pCut = 0.946 GeV
Asym
Entries 152002
Mean 0.5698
Std Dev 0.08504
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

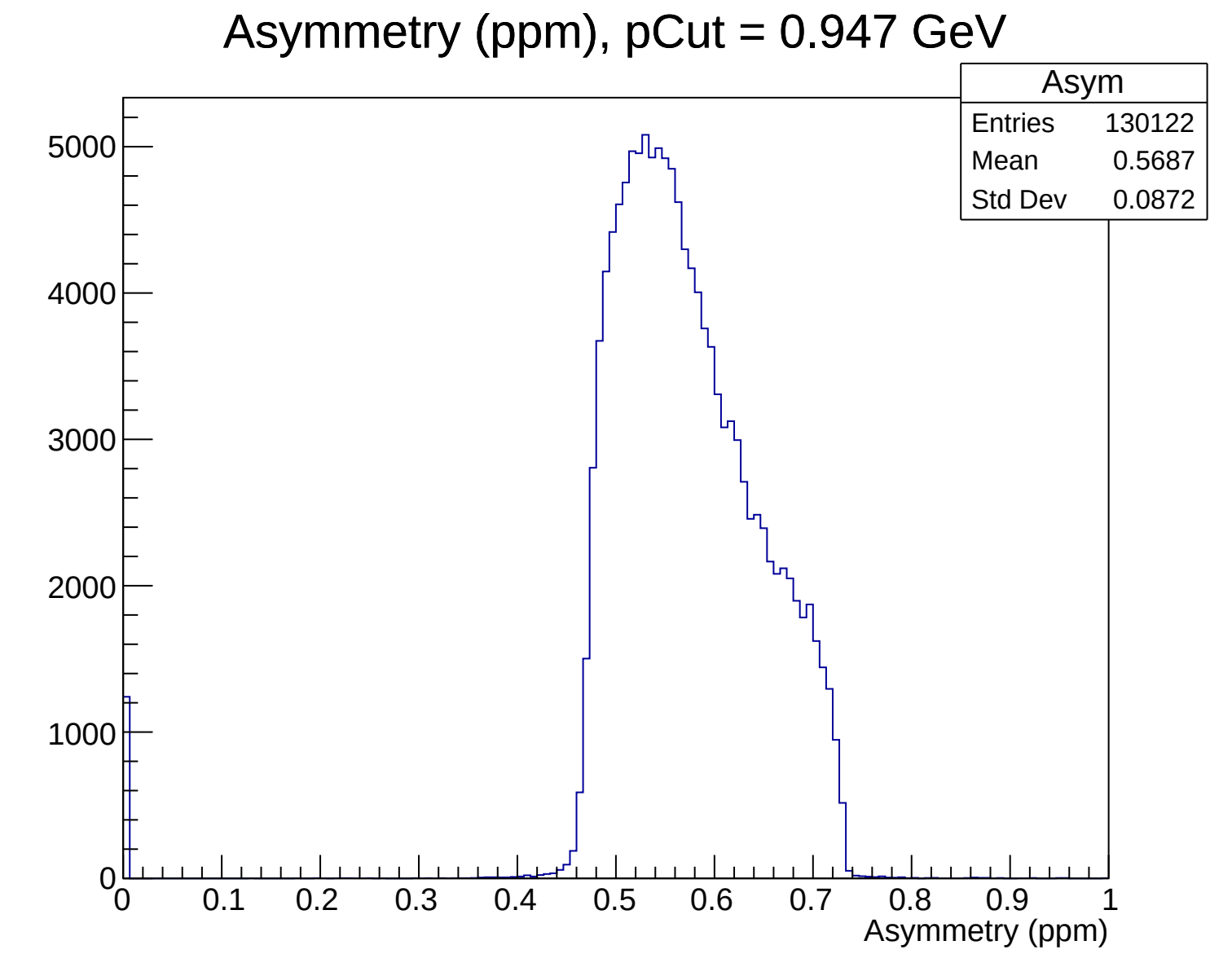

Stretched Asym. (ppm), pCut = 0.946 GeV
SAsym
Entries 152002
Mean 0.5568
Std Dev 0.08133
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

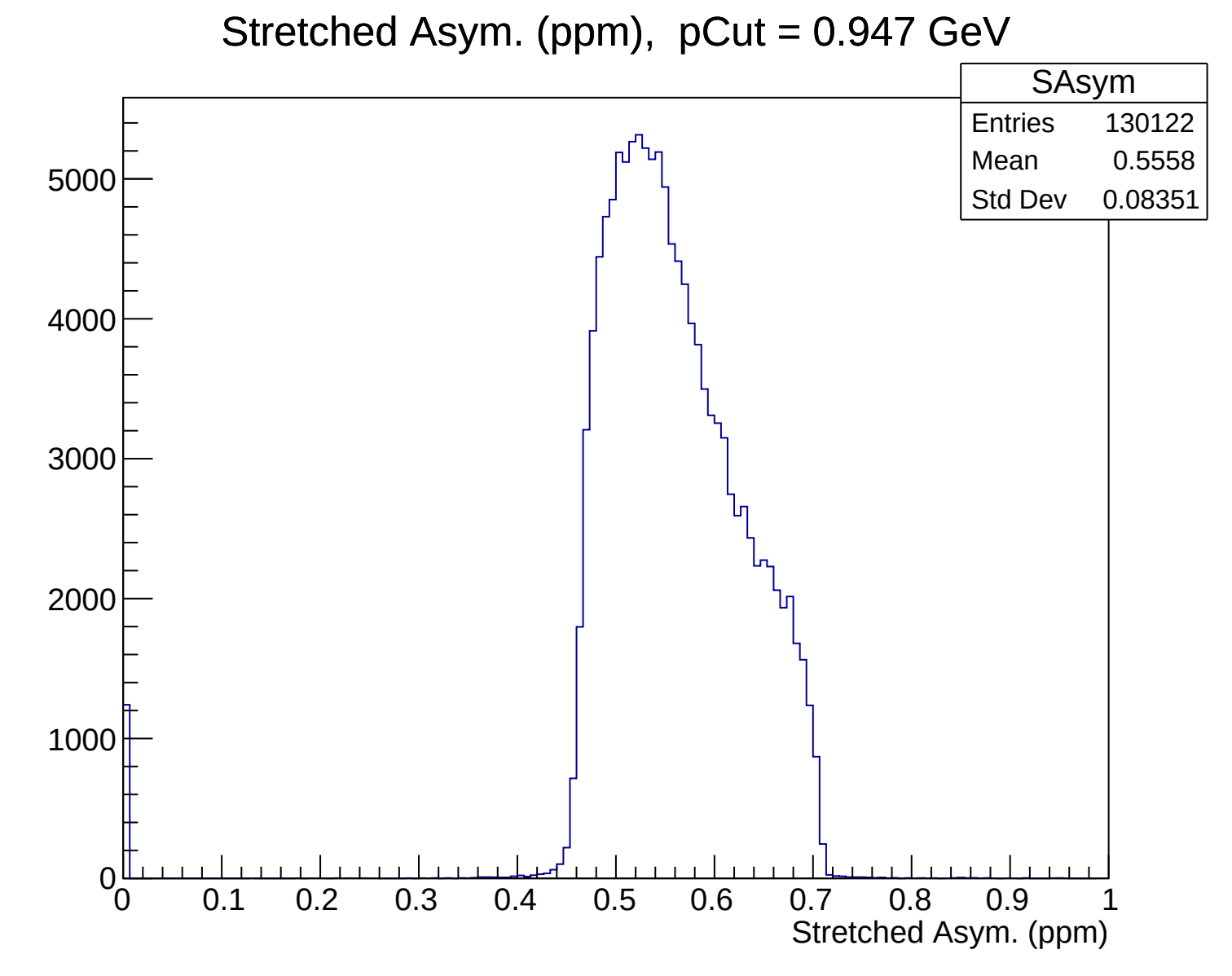

Q^2 (GeV/c)^2, pCut = 0.946 GeV
Q2
Entries 152002
Mean 0.006332
Std Dev 0.001221
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

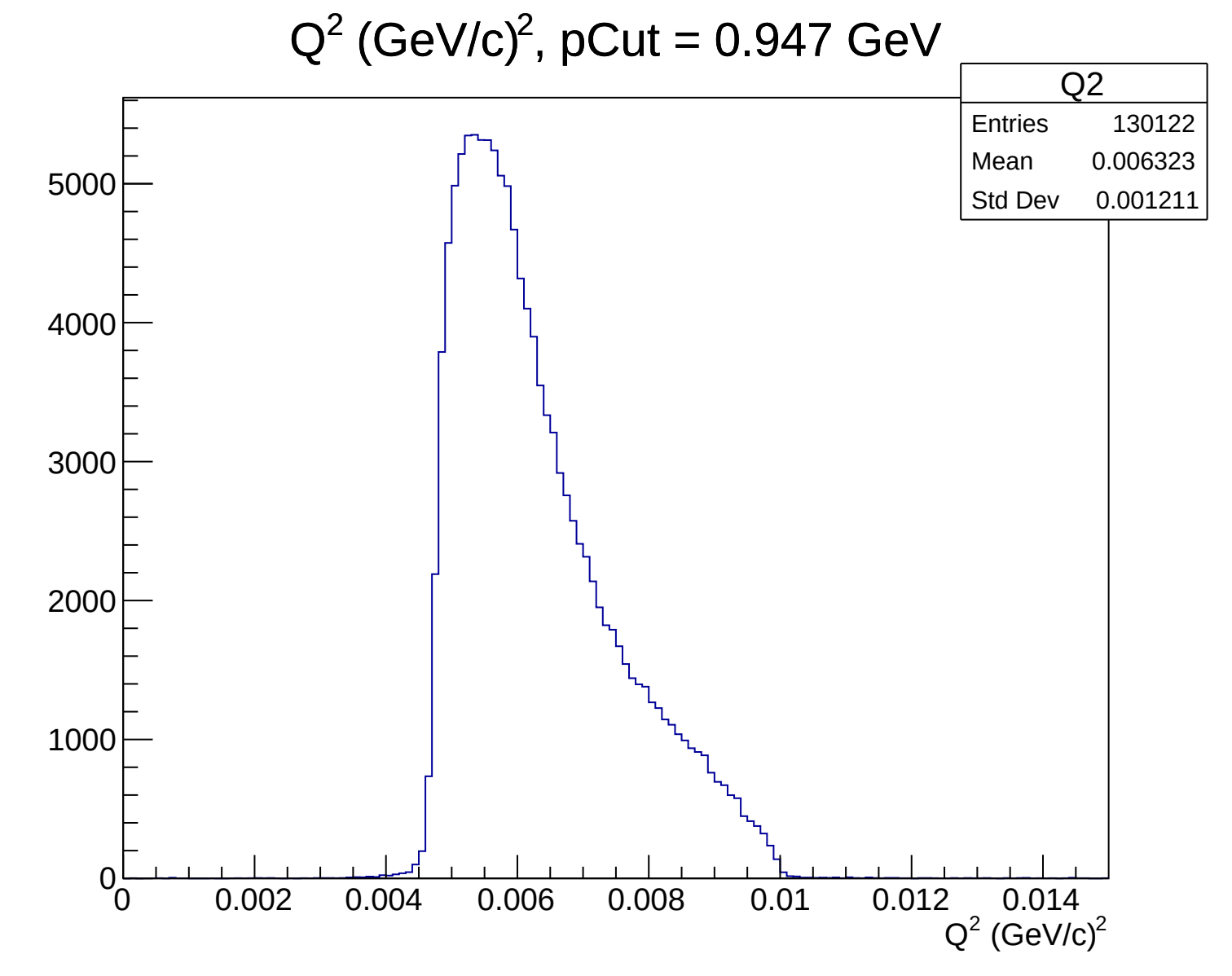

Sensitivity, pCut = 0.946 GeV
sens
Entries 152002
Mean 0.02228
Std Dev 0.00387
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

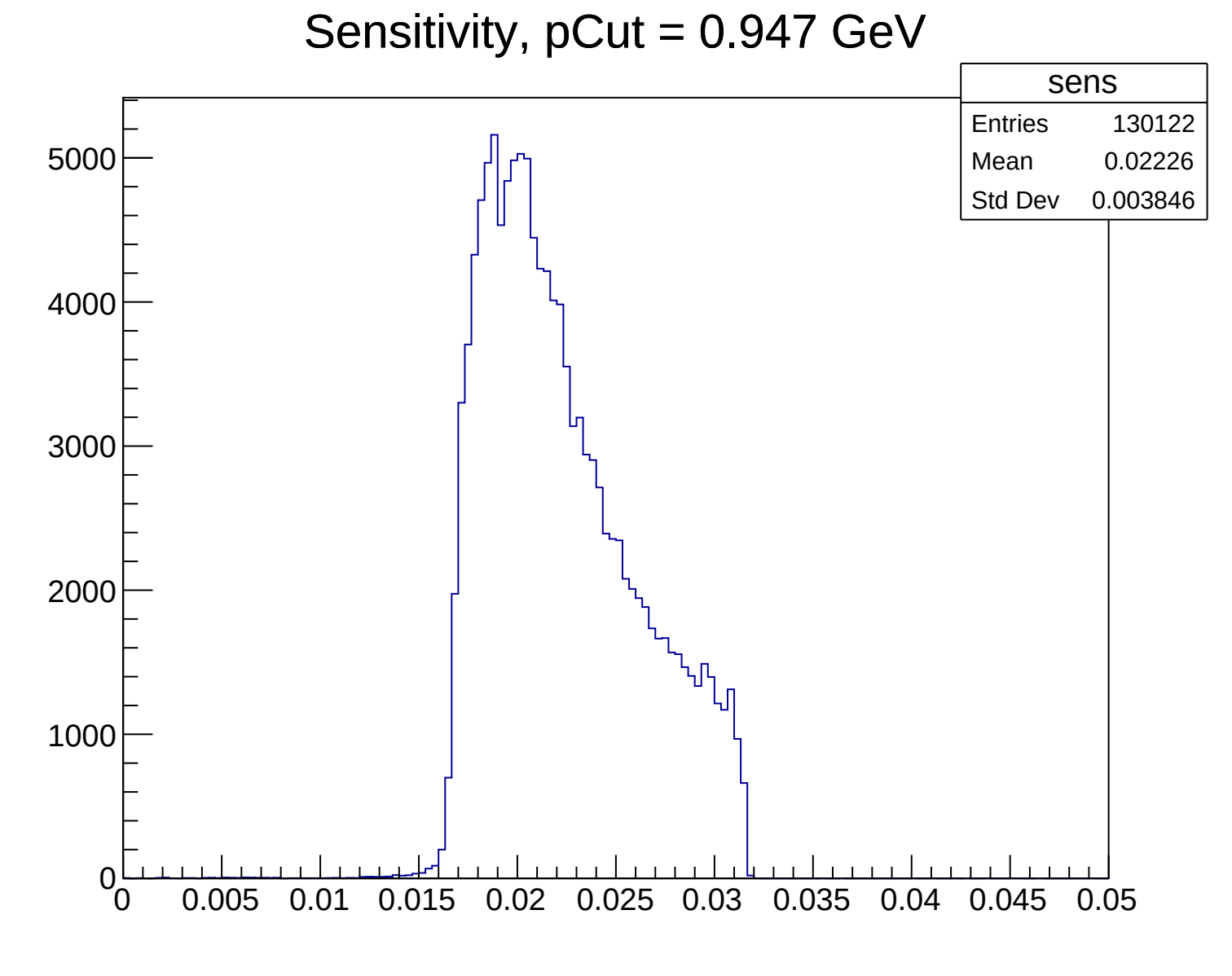

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9465 GeV
R.gold.p (GeV)

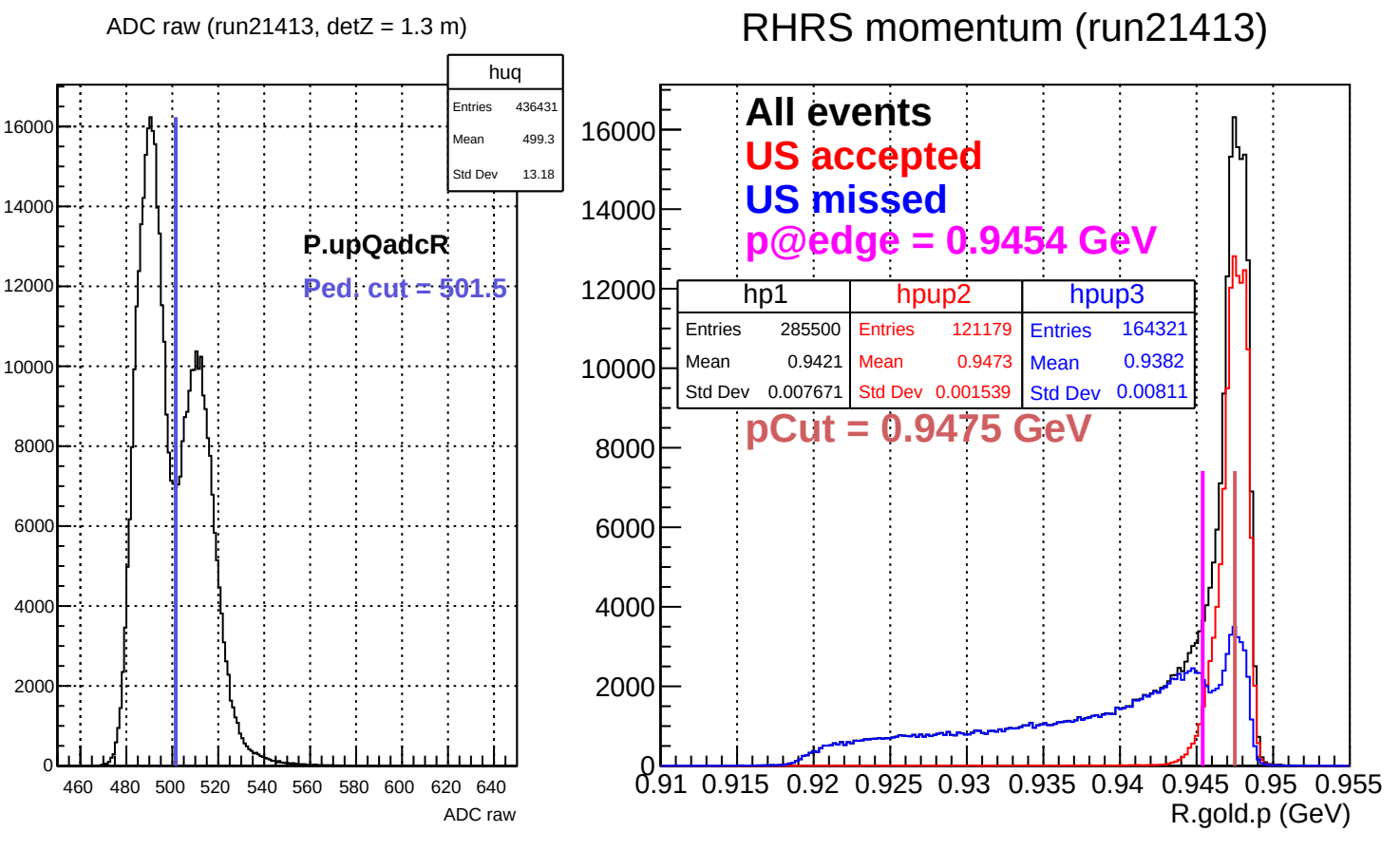

θlab (deg), pCut = 0.947 GeV
Theta
Entries 130122
Mean 4.783
Std Dev 0.4479
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

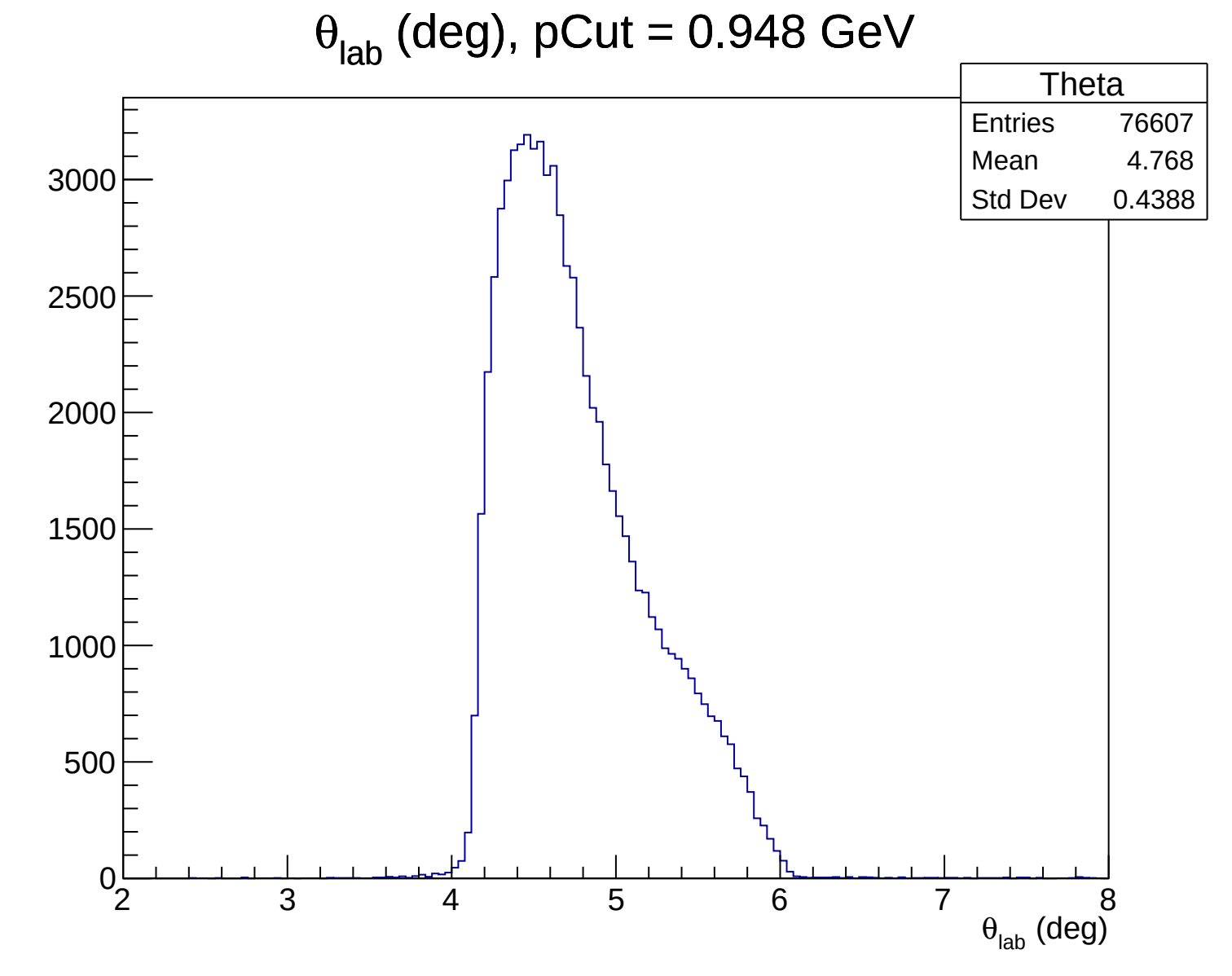

Asymmetry (ppm), pCut = 0.947 GeV
Asym
Entries 130122
Mean 0.5687
Std Dev 0.0872
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

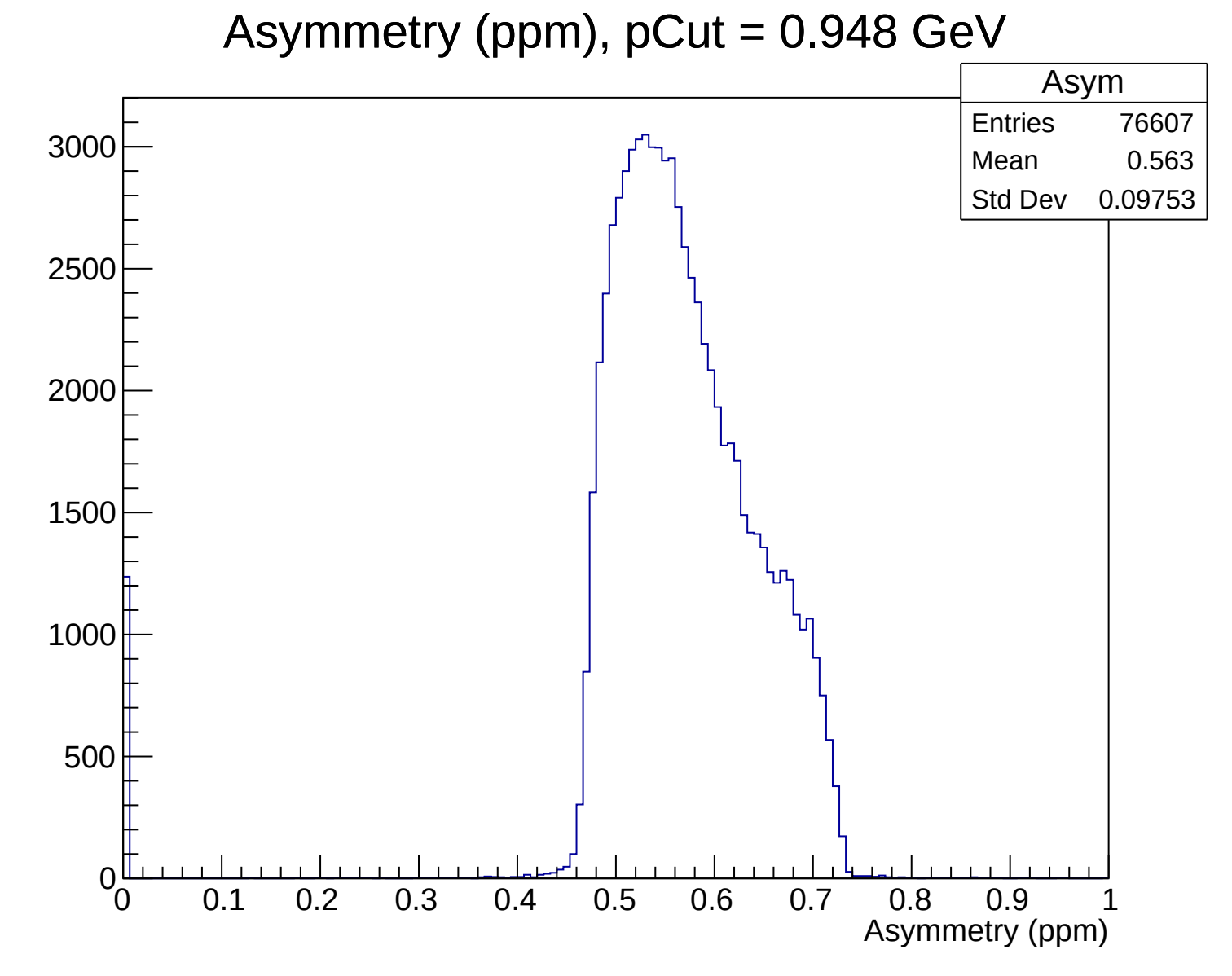

Stretched Asym. (ppm), pCut = 0.947 GeV
SAsym
Entries 130122
Mean 0.5558
Std Dev 0.08351
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

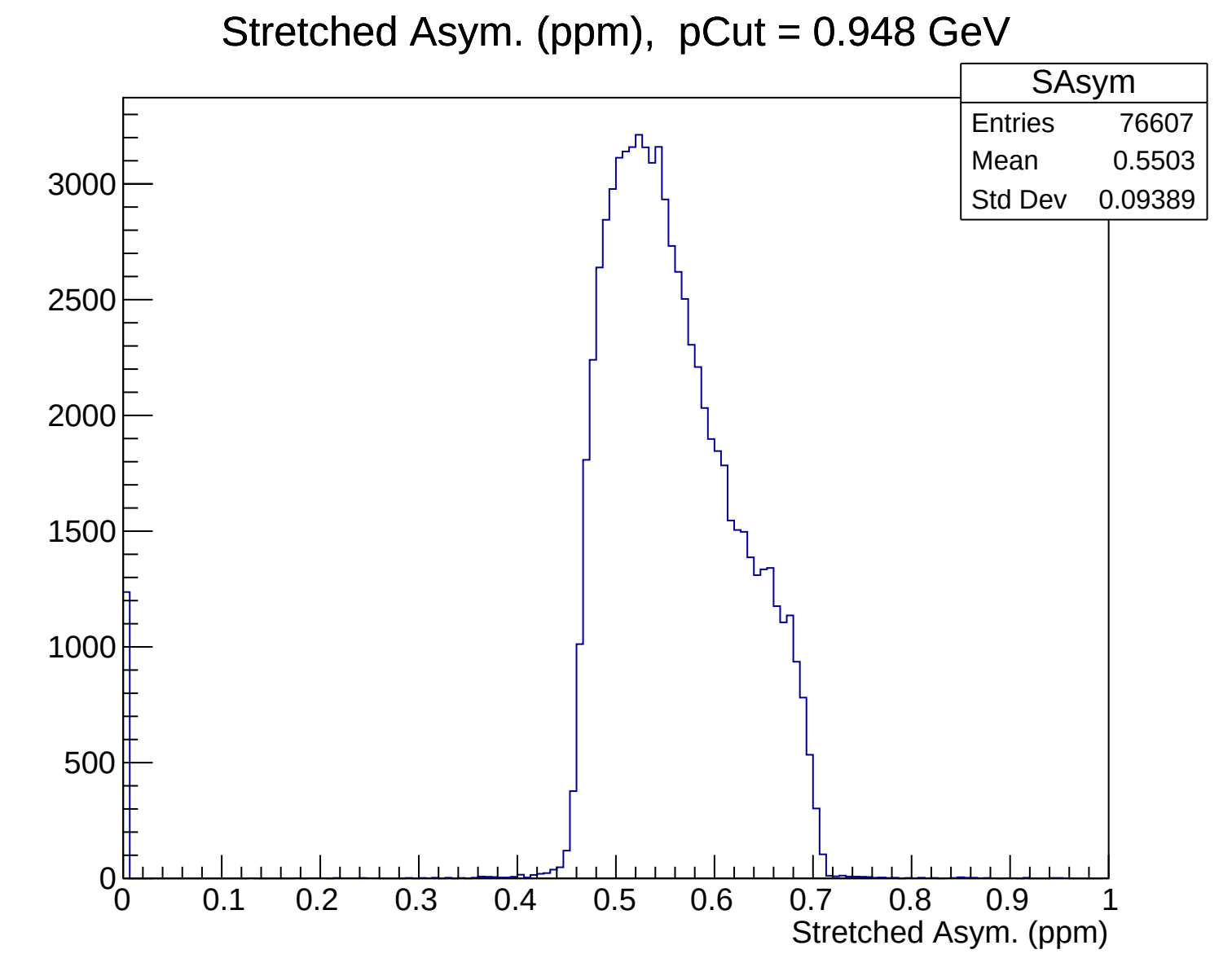

Q^2 (GeV/c)^2, pCut = 0.947 GeV
Q2
Entries 130122
Mean 0.006323
Std Dev 0.001211
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

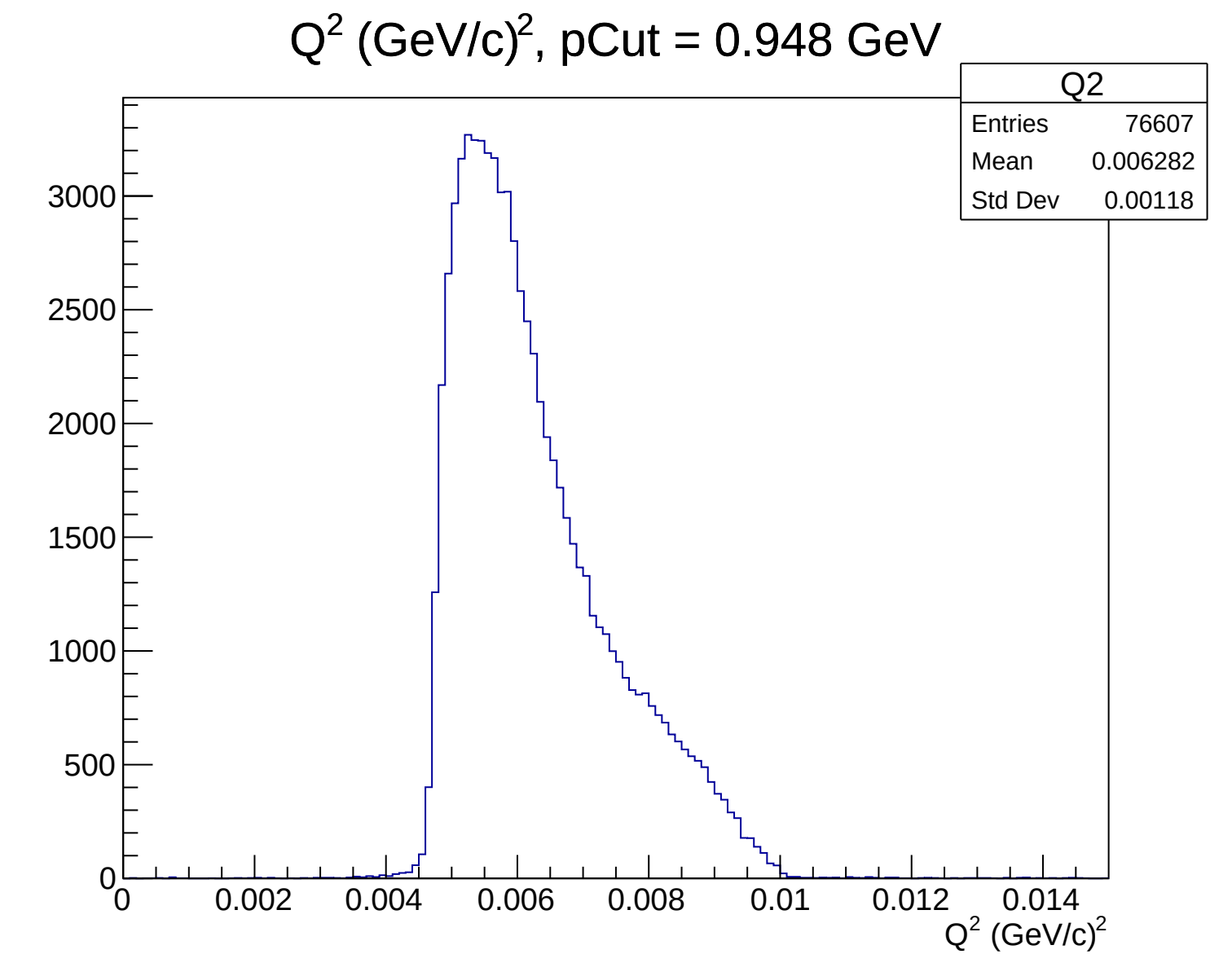

Sensitivity, pCut = 0.947 GeV
sens
Entries 130122
Mean 0.02226
Std Dev 0.003846
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

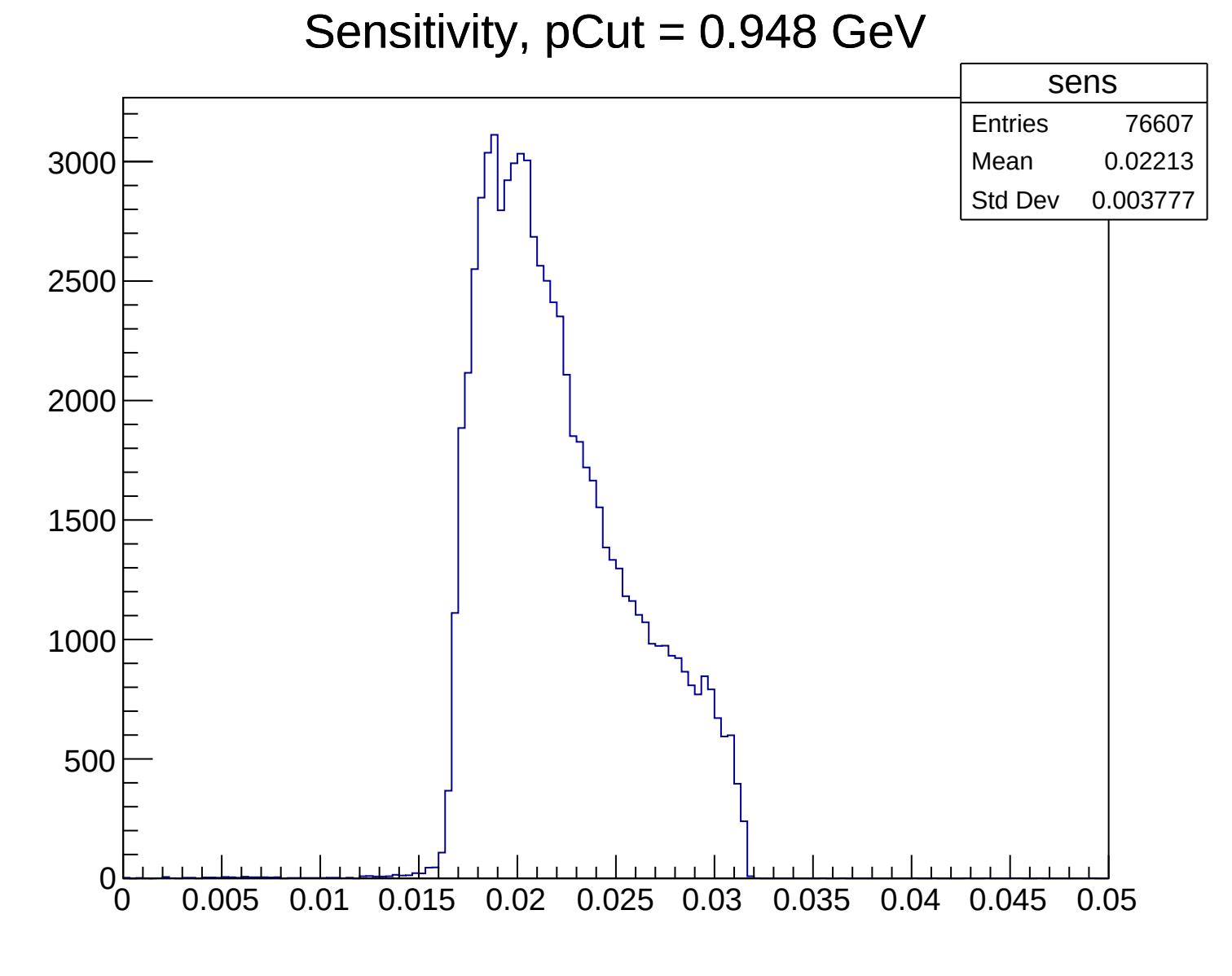

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9475 GeV
R.gold.p (GeV)

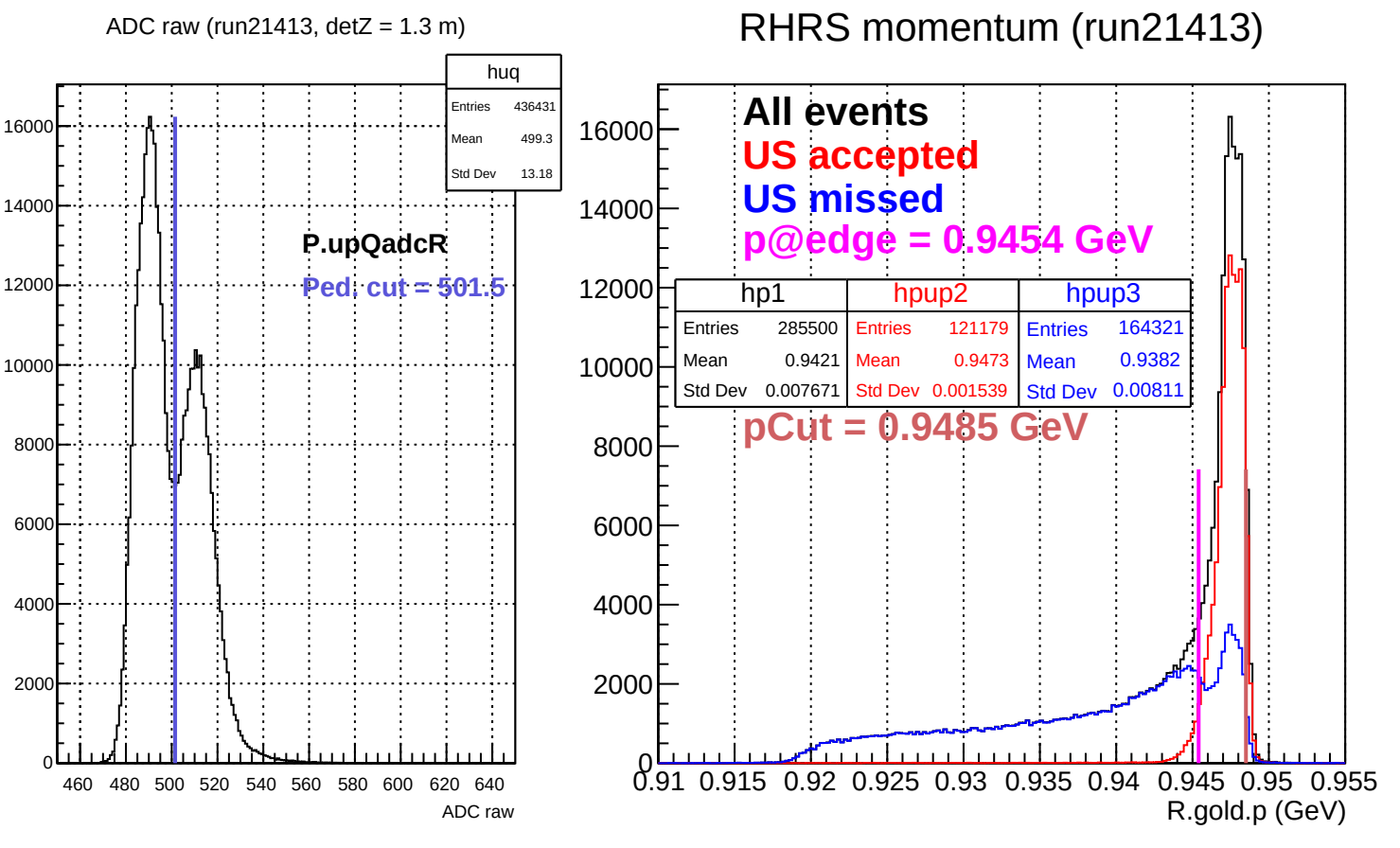

θlab (deg), pCut = 0.948 GeV
Theta
Entries 76607
Mean 4.768
Std Dev 0.4388
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

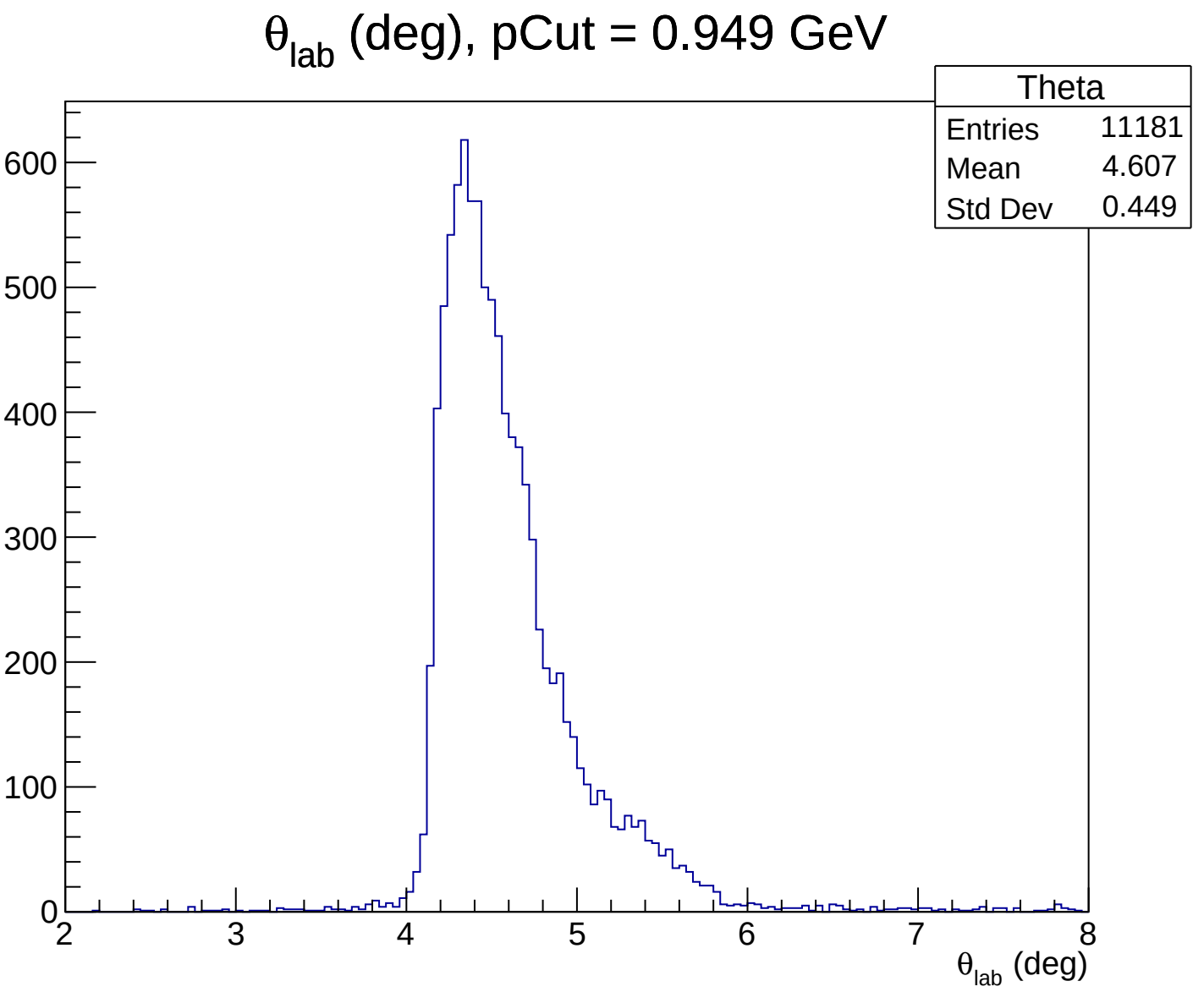

Asymmetry (ppm), pCut = 0.948 GeV
Asym
Entries 76607
Mean 0.563
Std Dev 0.09753
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

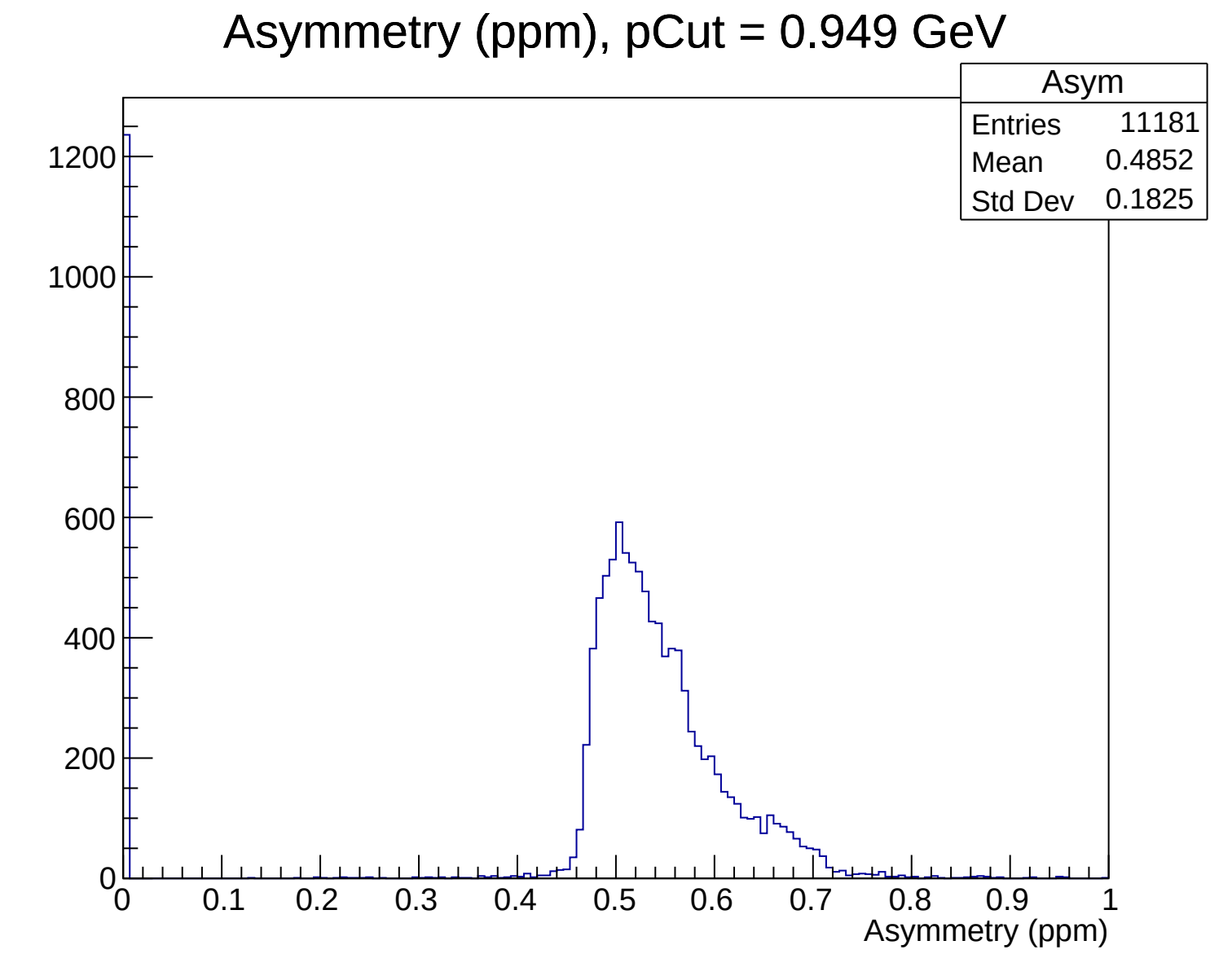

Stretched Asym. (ppm), pCut = 0.948 GeV
SAsym
Entries 76607
Mean 0.5503
Std Dev 0.09389
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

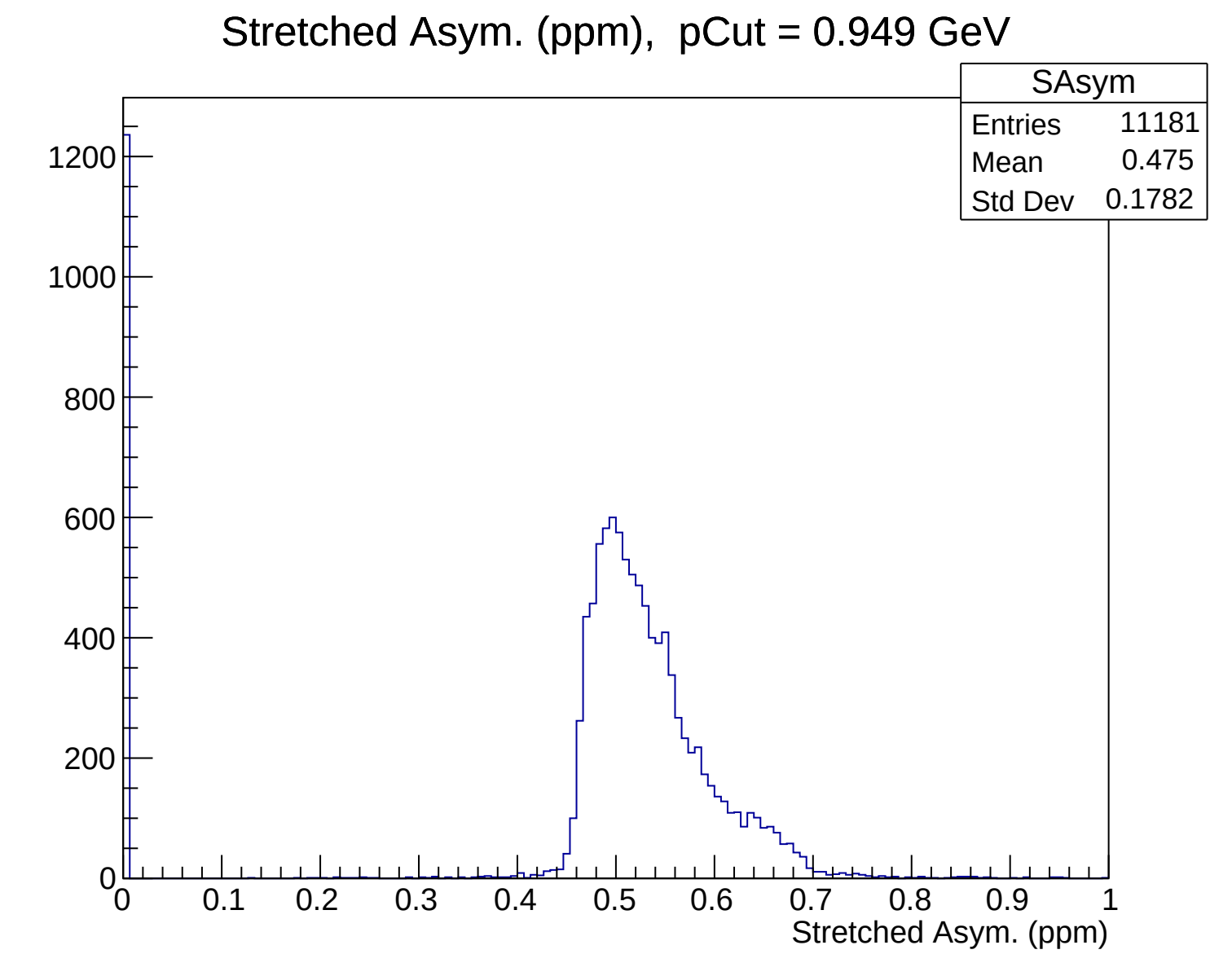

Q^2 (GeV/c)^2, pCut = 0.948 GeV
Q2
Entries 76607
Mean 0.006282
Std Dev 0.00118
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

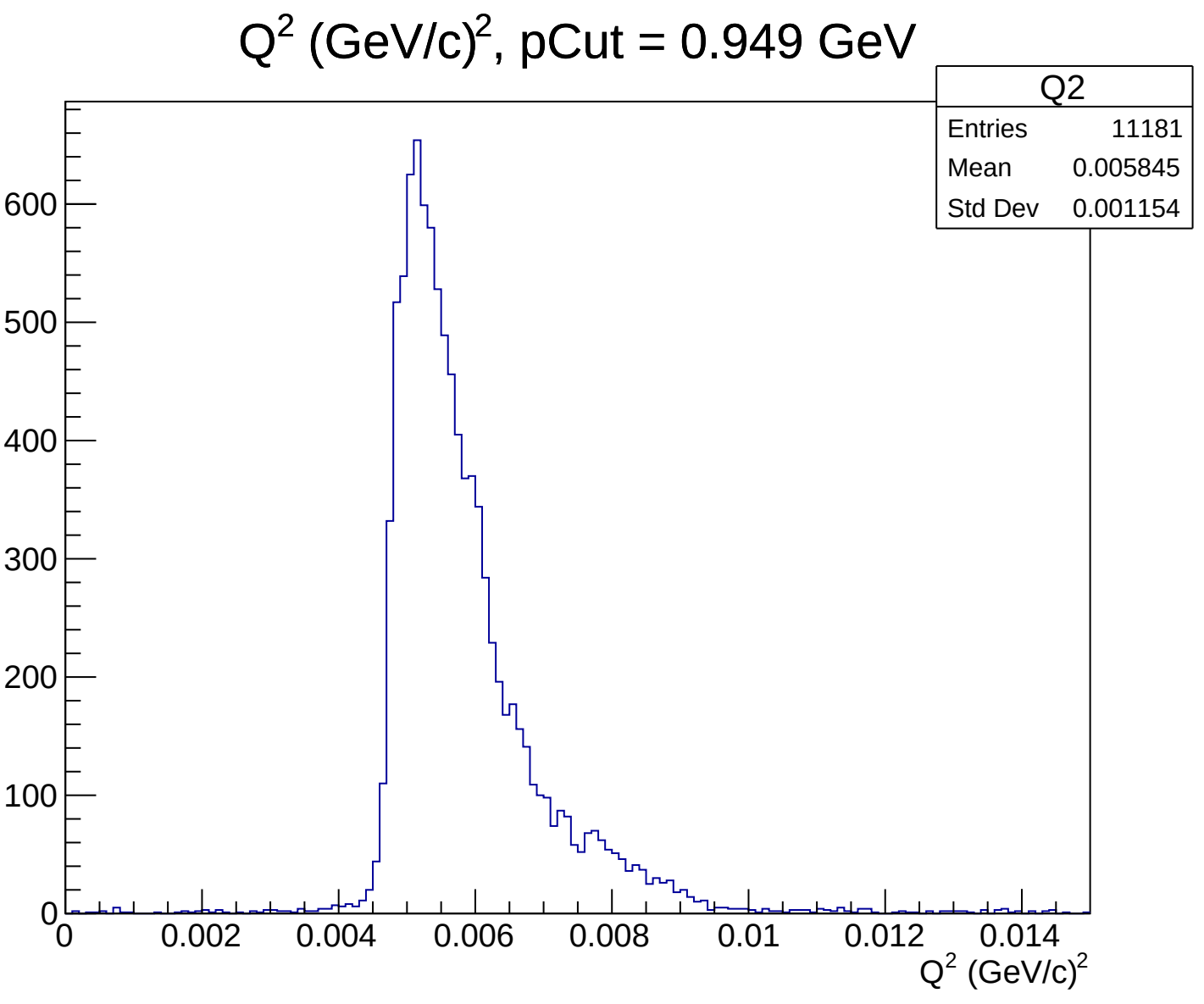

Sensitivity, pCut = 0.948 GeV
sens
Entries 76607
Mean 0.02213
Std Dev 0.003777
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

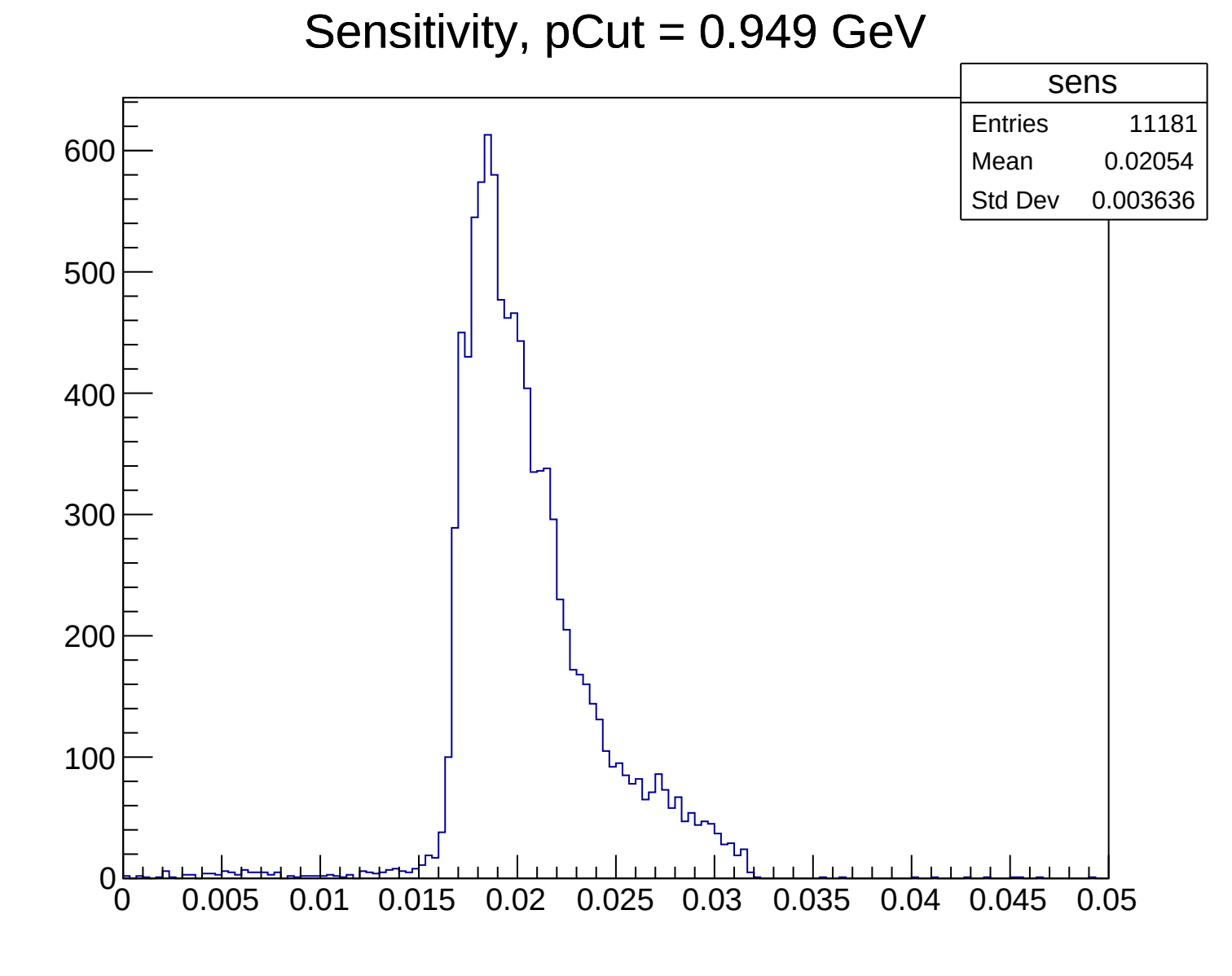

ADC raw (run21413, detZ = 1.3 m)
huq
Entries 436431
Mean 499.3
Std Dev 13.18
P.upQadcR
Ped. cut = 501.5
ADC raw
RHRS momentum (run21413)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 285500
Mean 0.9421
Std Dev 0.007671
hpup2
Entries 121179
Mean 0.9473
Std Dev 0.001539
hpup3
Entries 164321
Mean 0.9382
Std Dev 0.00811
pCut = 0.9485 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.949 GeV
Theta
Entries 11181
Mean 4.607
Std Dev 0.449
600
500
400
300
200
100
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), pCut = 0.949 GeV
Asym
Entries 11181
Mean 0.4852
Std Dev 0.1825
1200
1000
800
600
400
200
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 11181
Mean 0.475
Std Dev 0.1782
1200
1000
800
600
400
200
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 11181
Mean 0.005845
Std Dev 0.001154
600
500
400
300
200
100
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 11181
Mean 0.02054
Std Dev 0.003636
600
500
400
300
200
100
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05