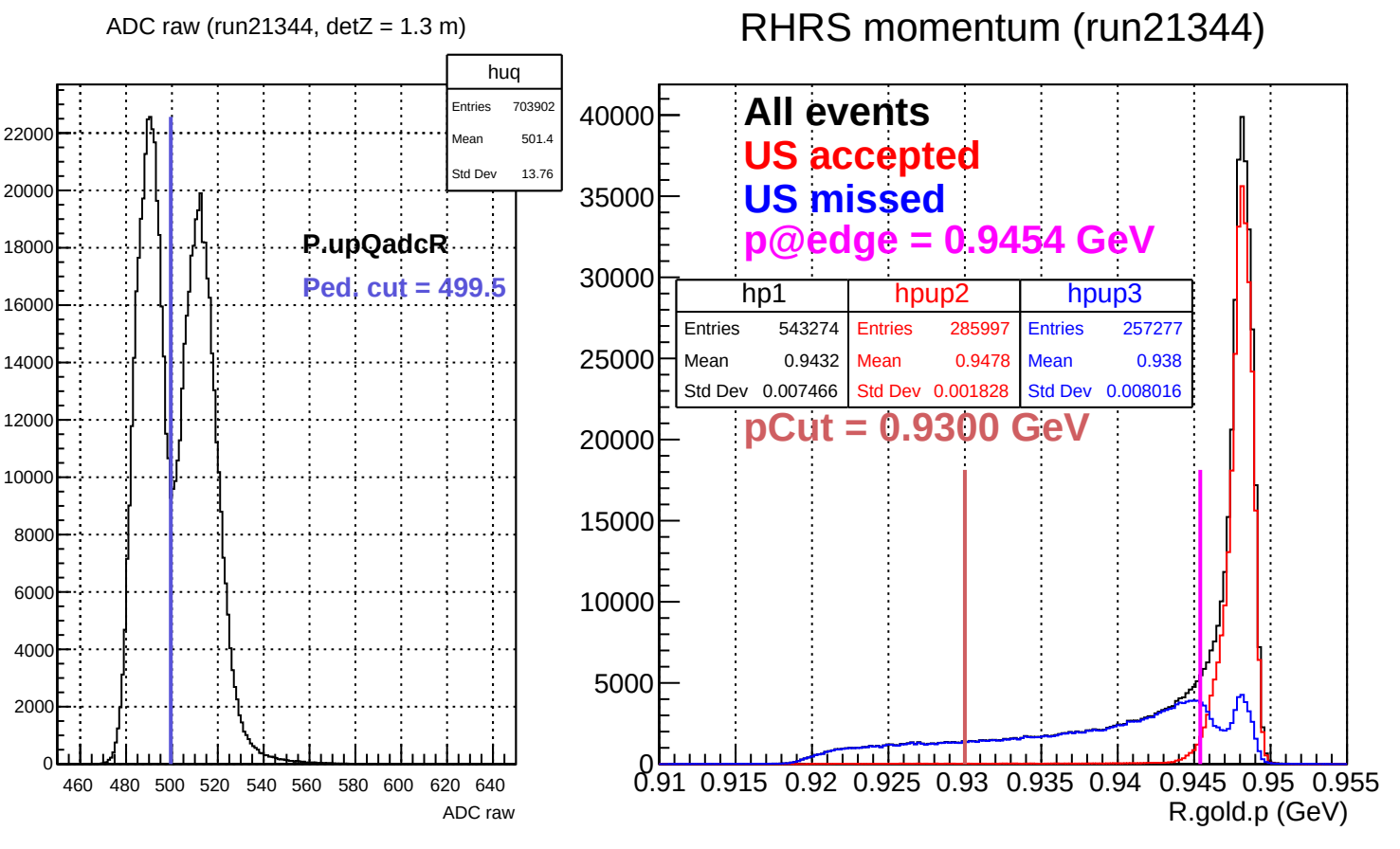
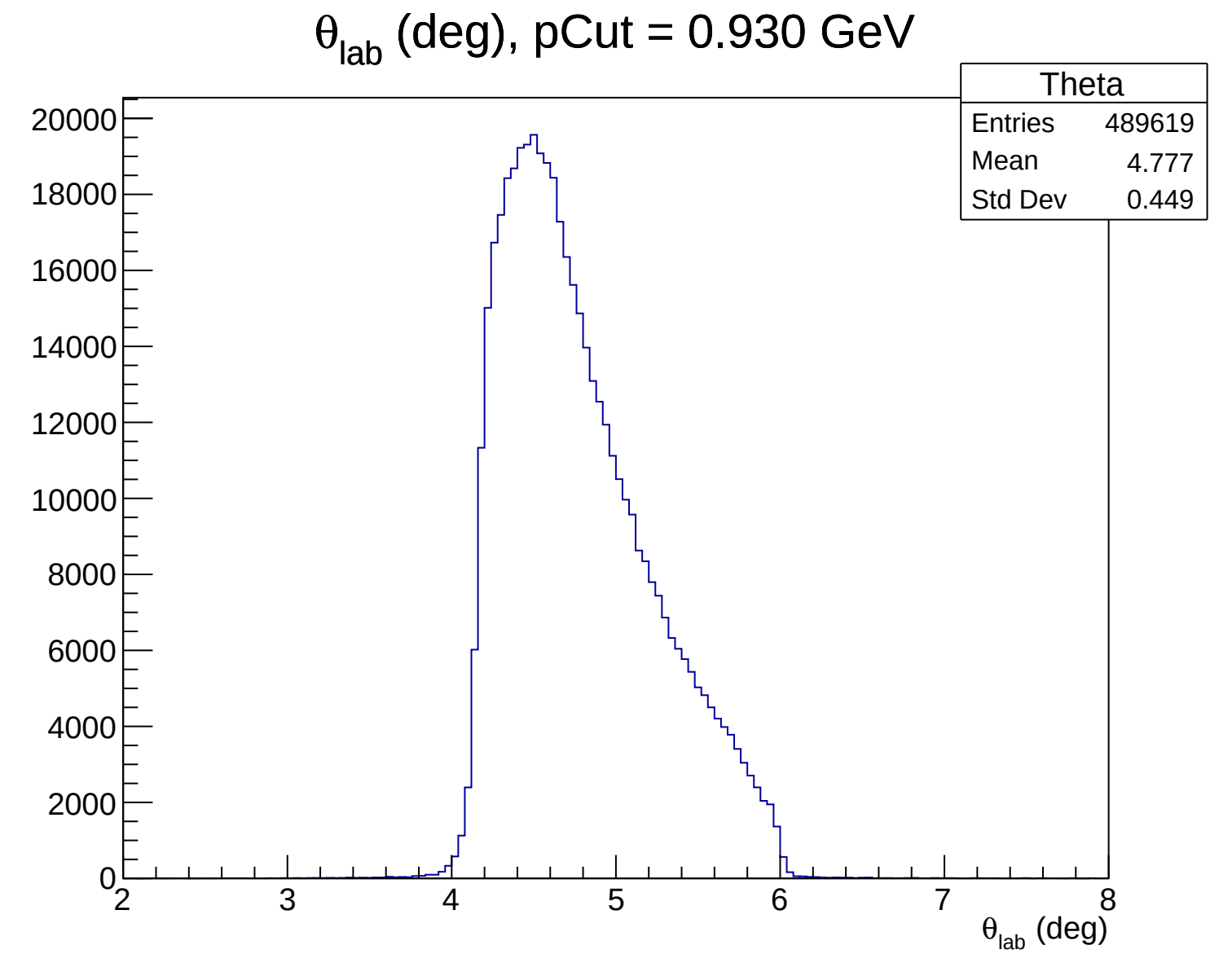
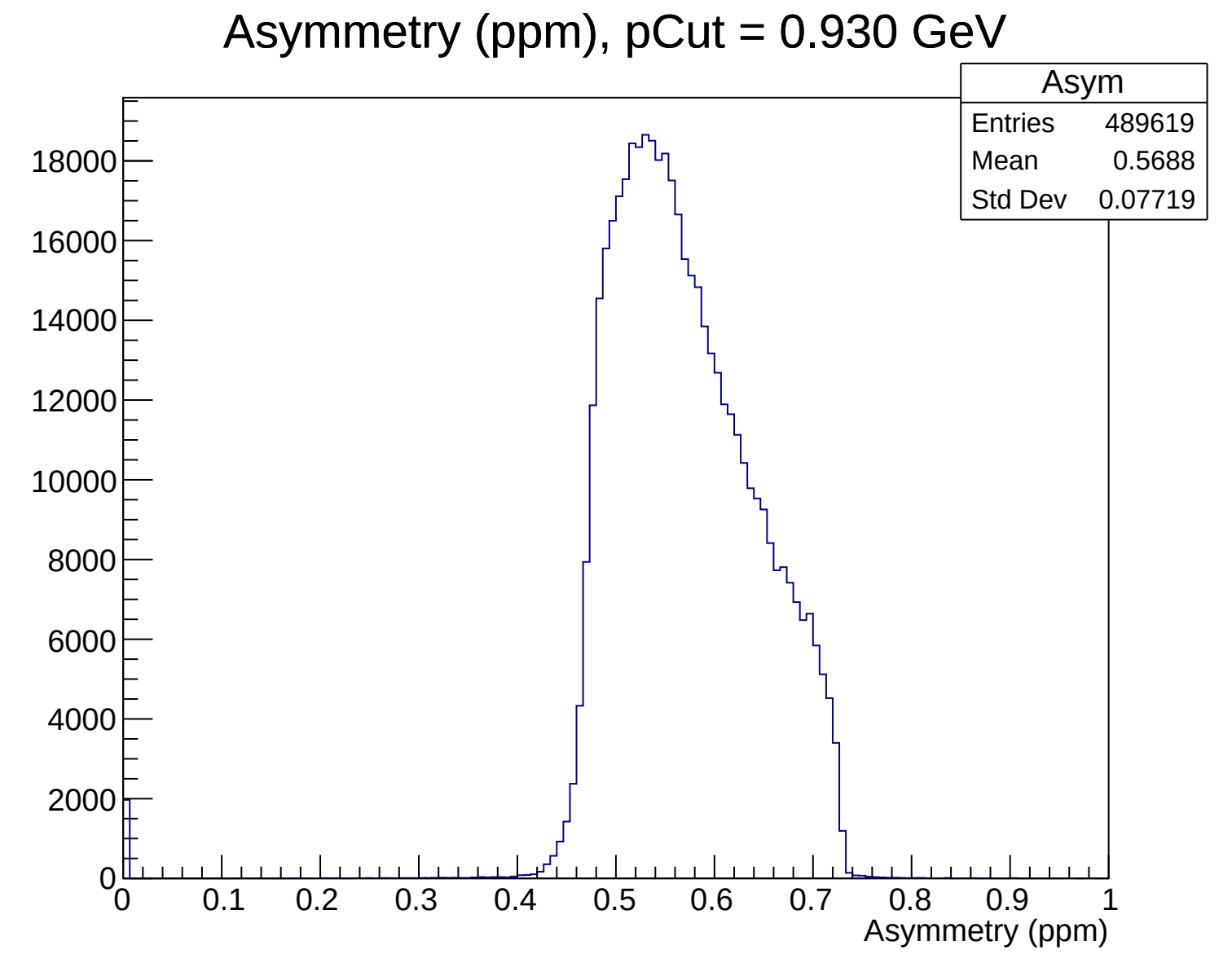
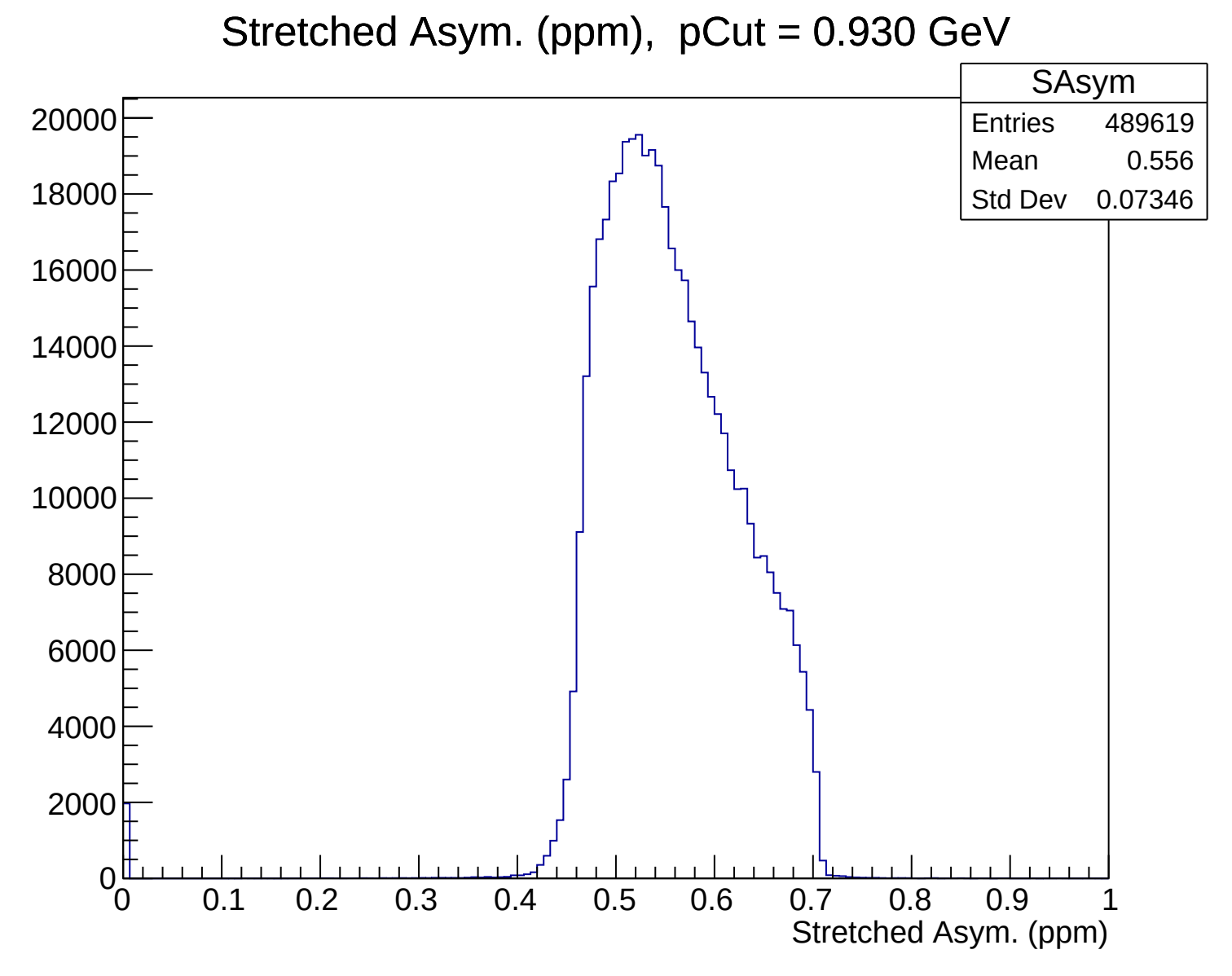
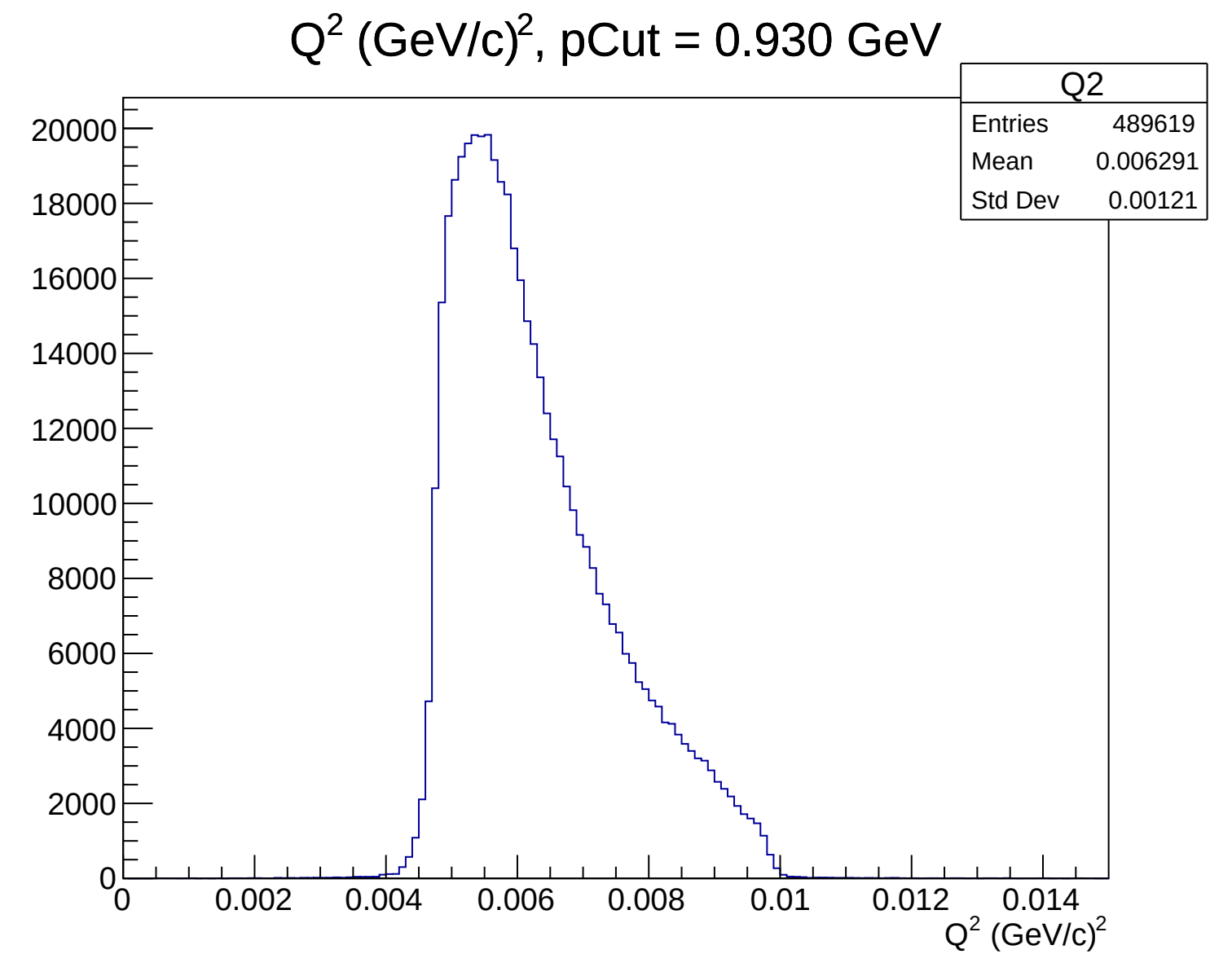
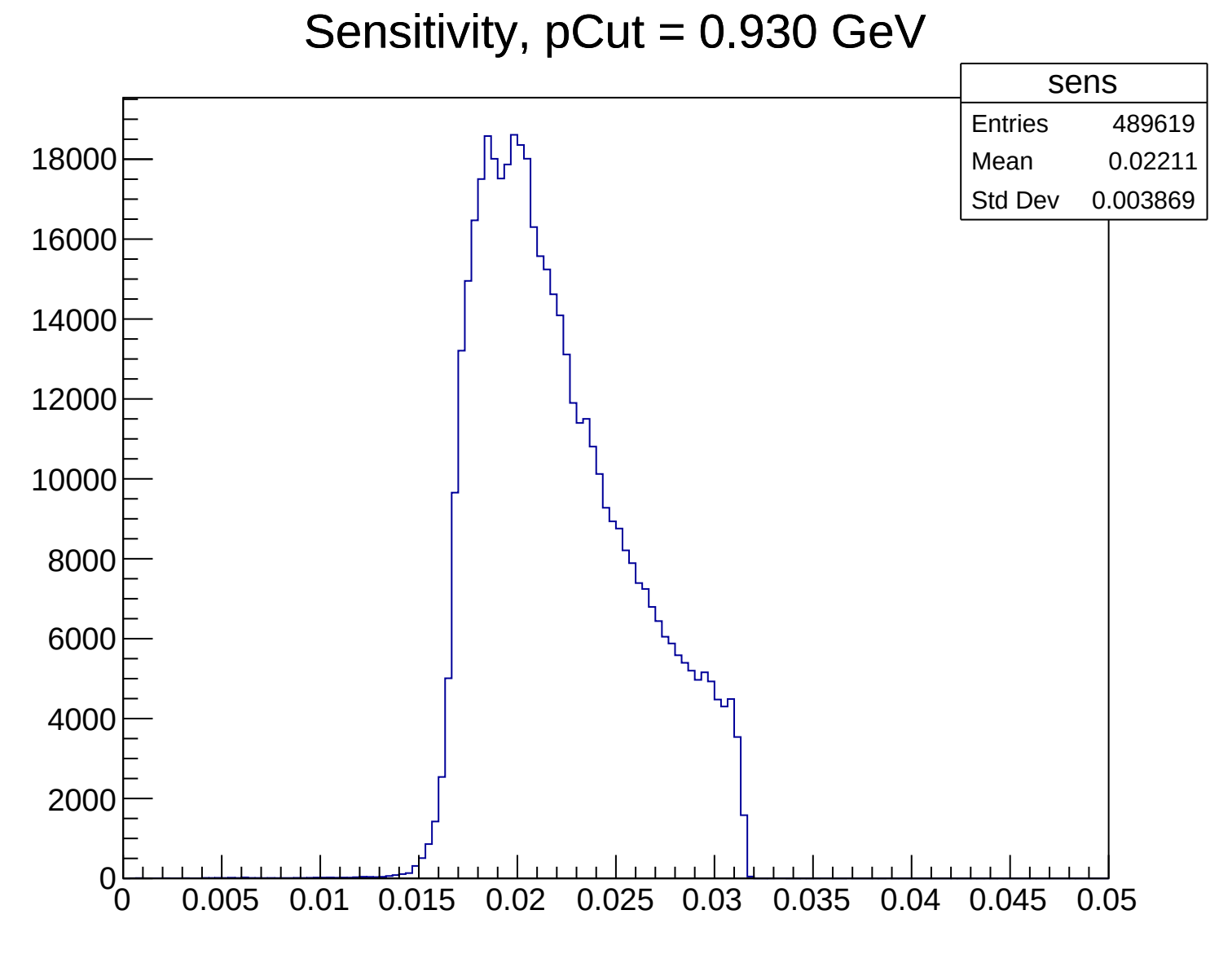

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9300 GeV
R.gold.p (GeV)

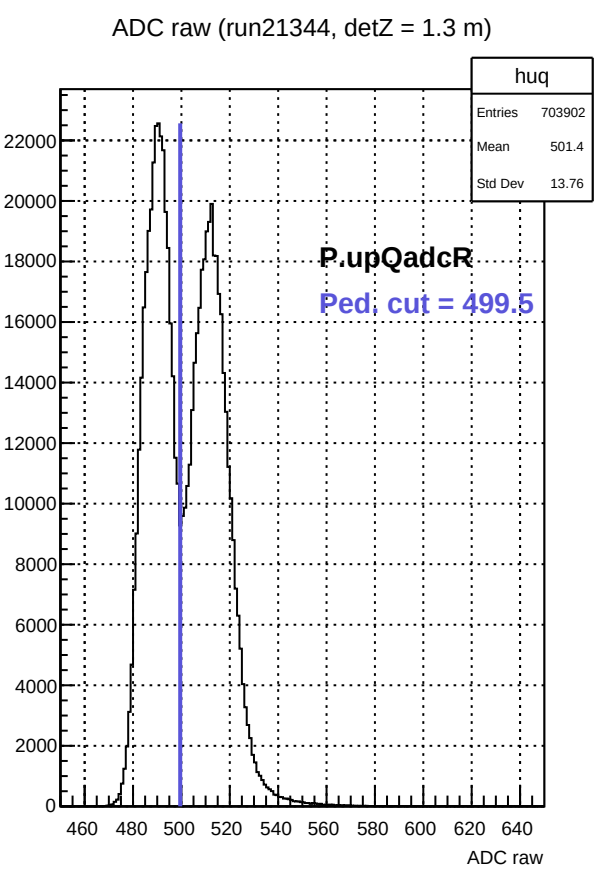

θlab (deg), pCut = 0.930 GeV
Theta
Entries 489619
Mean 4.777
Std Dev 0.449
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

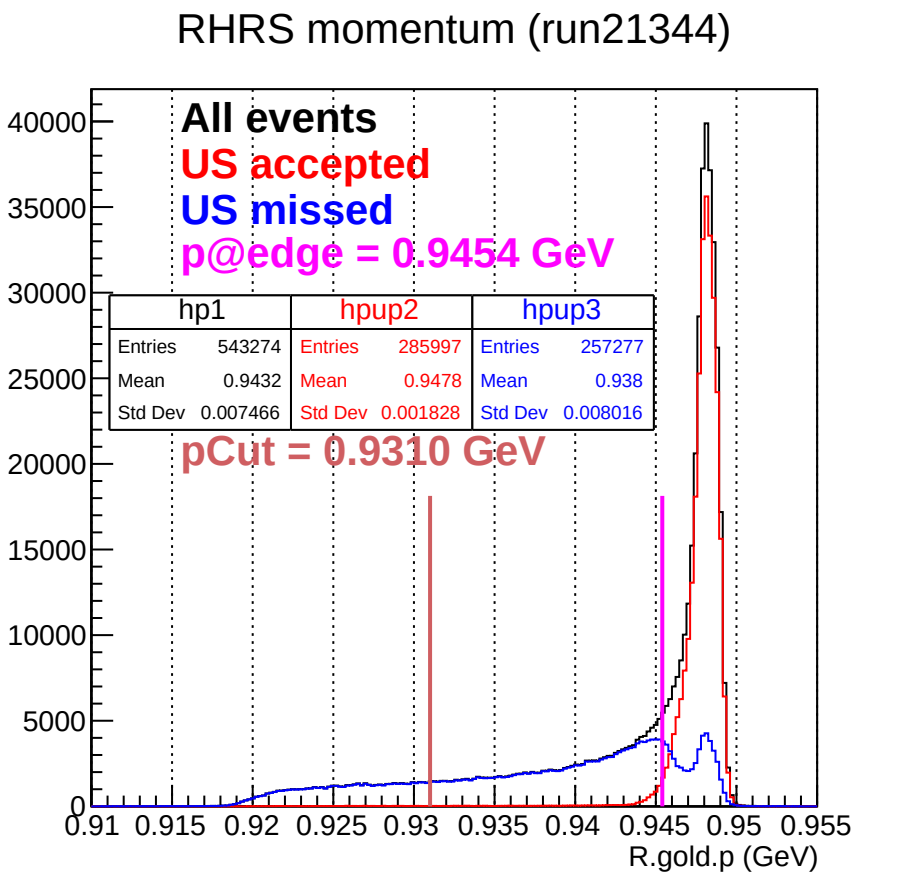

Asymmetry (ppm), pCut = 0.930 GeV
Asym
Entries 489619
Mean 0.5688
Std Dev 0.07719
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

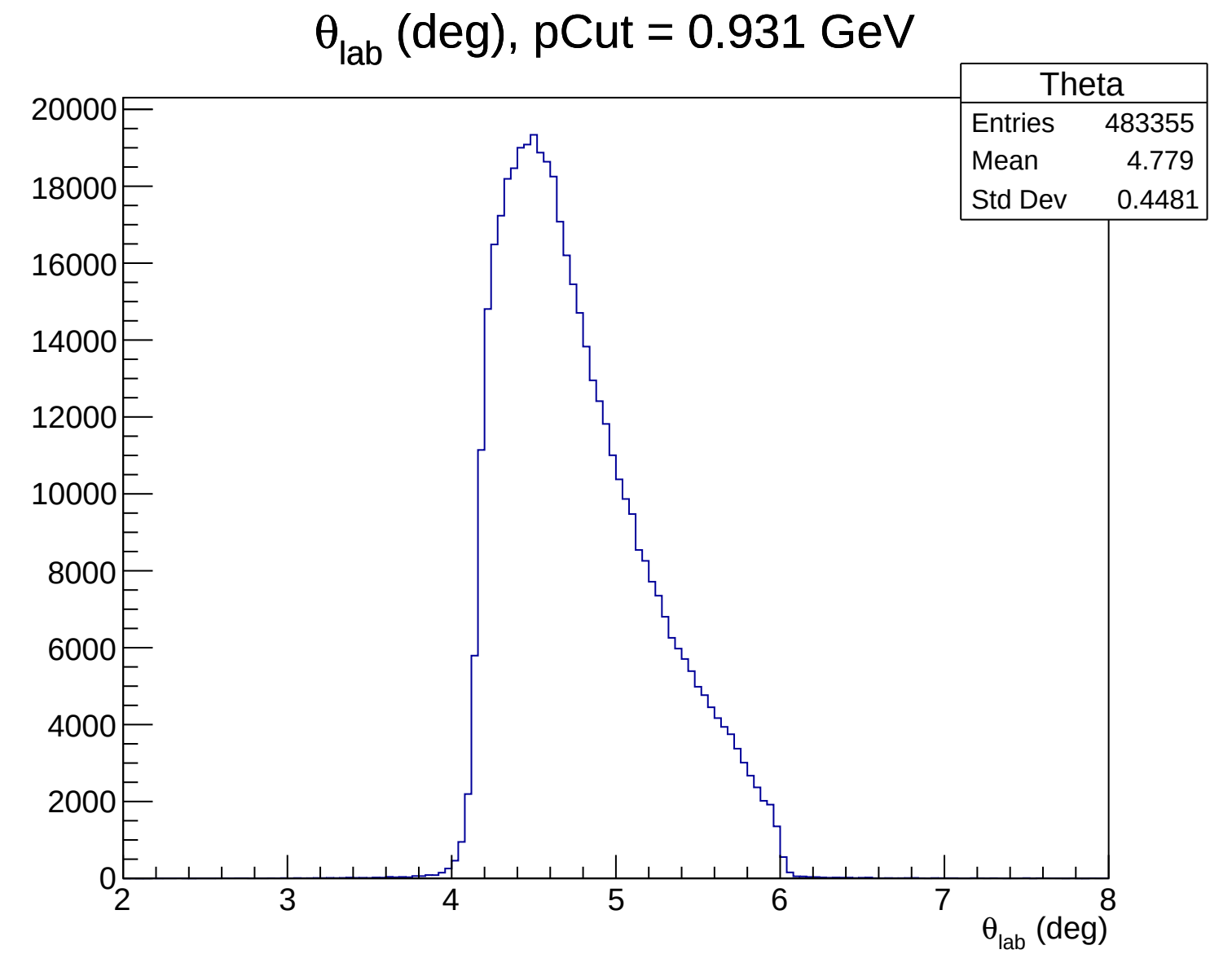

Stretched Asym. (ppm), pCut = 0.930 GeV
SAsym
Entries 489619
Mean 0.556
Std Dev 0.07346
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

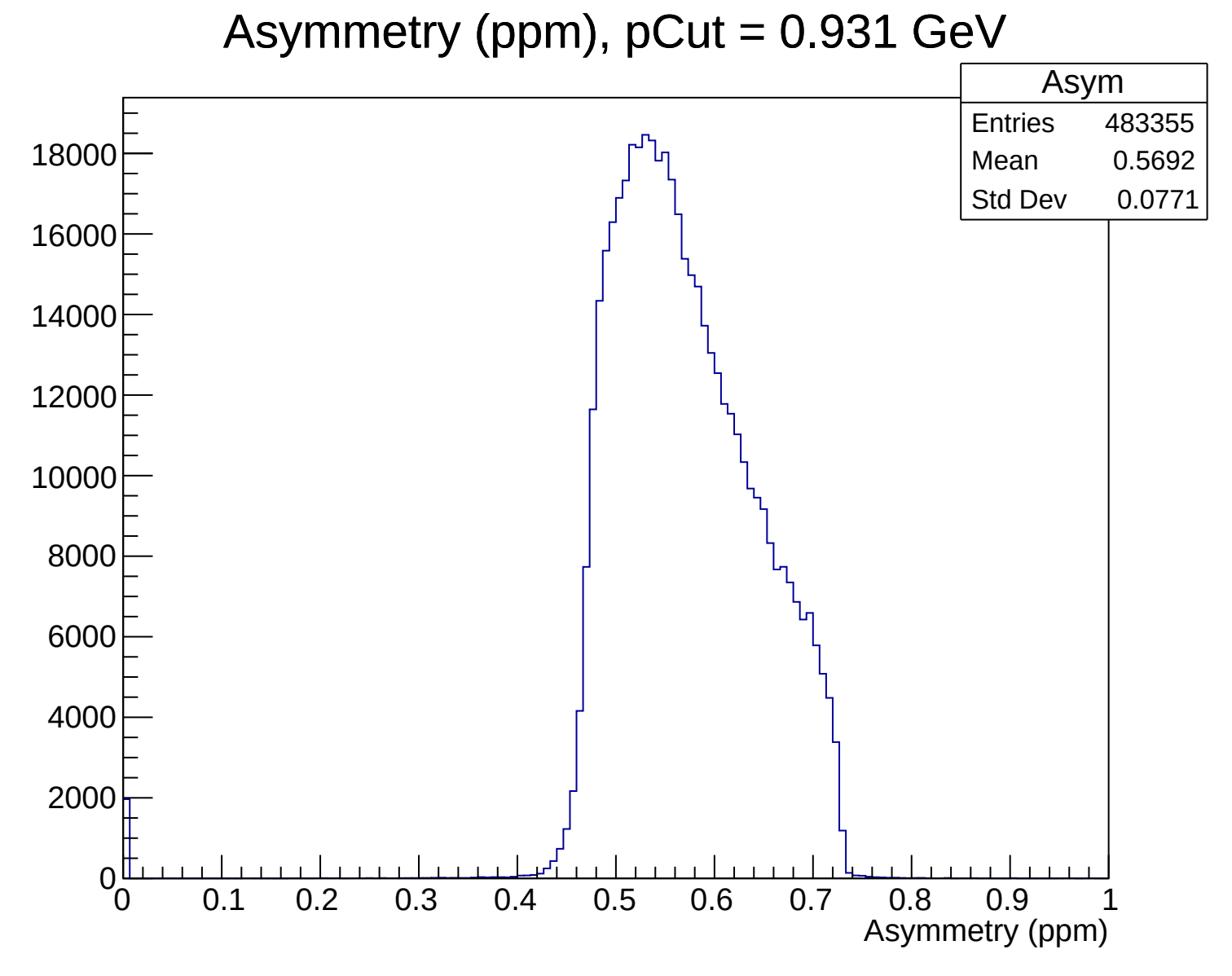

Q^2 (GeV/c)^2, pCut = 0.930 GeV
Q2
Entries 489619
Mean 0.006291
Std Dev 0.00121
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

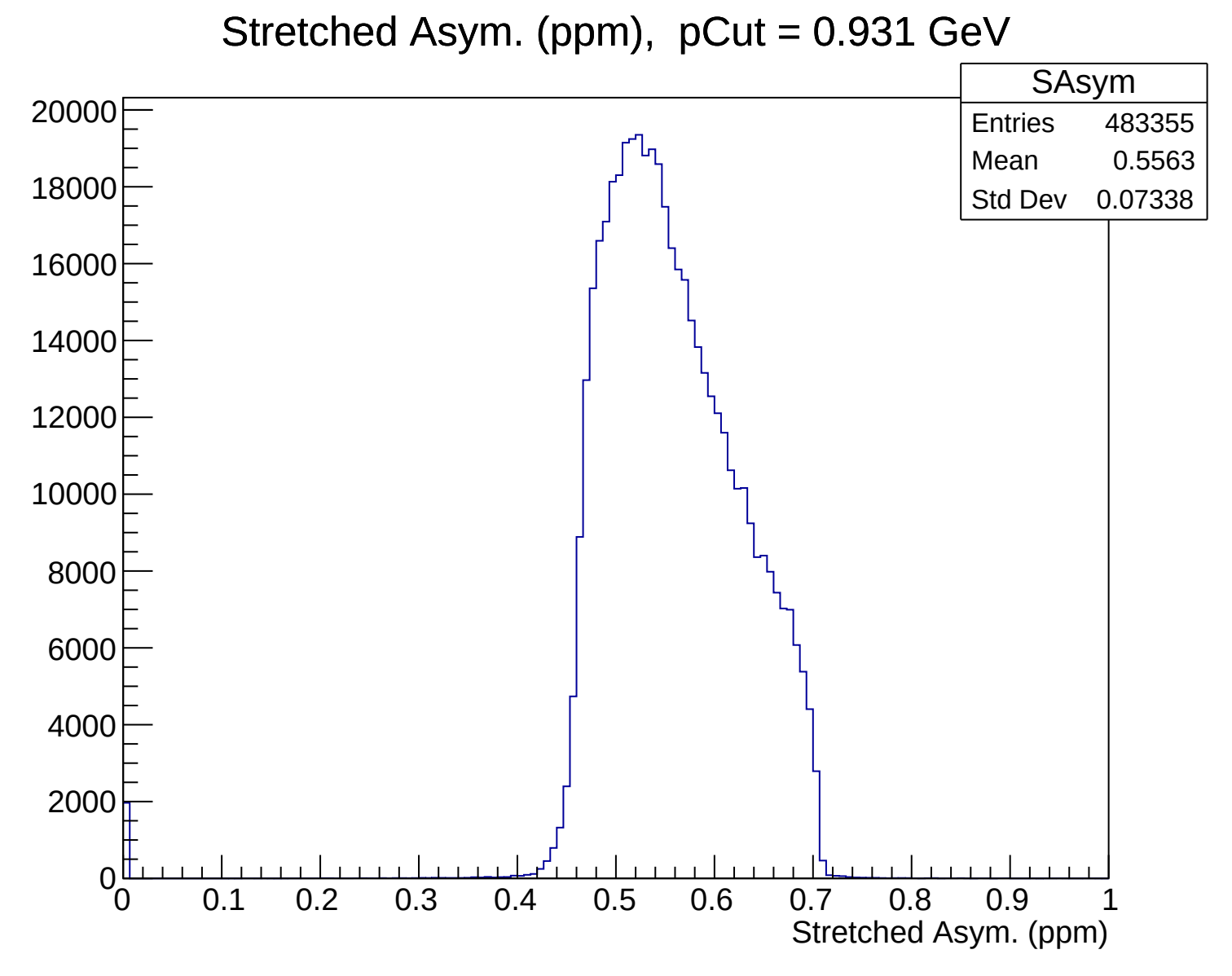

Sensitivity, pCut = 0.930 GeV
sens
Entries 489619
Mean 0.02211
Std Dev 0.003869
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

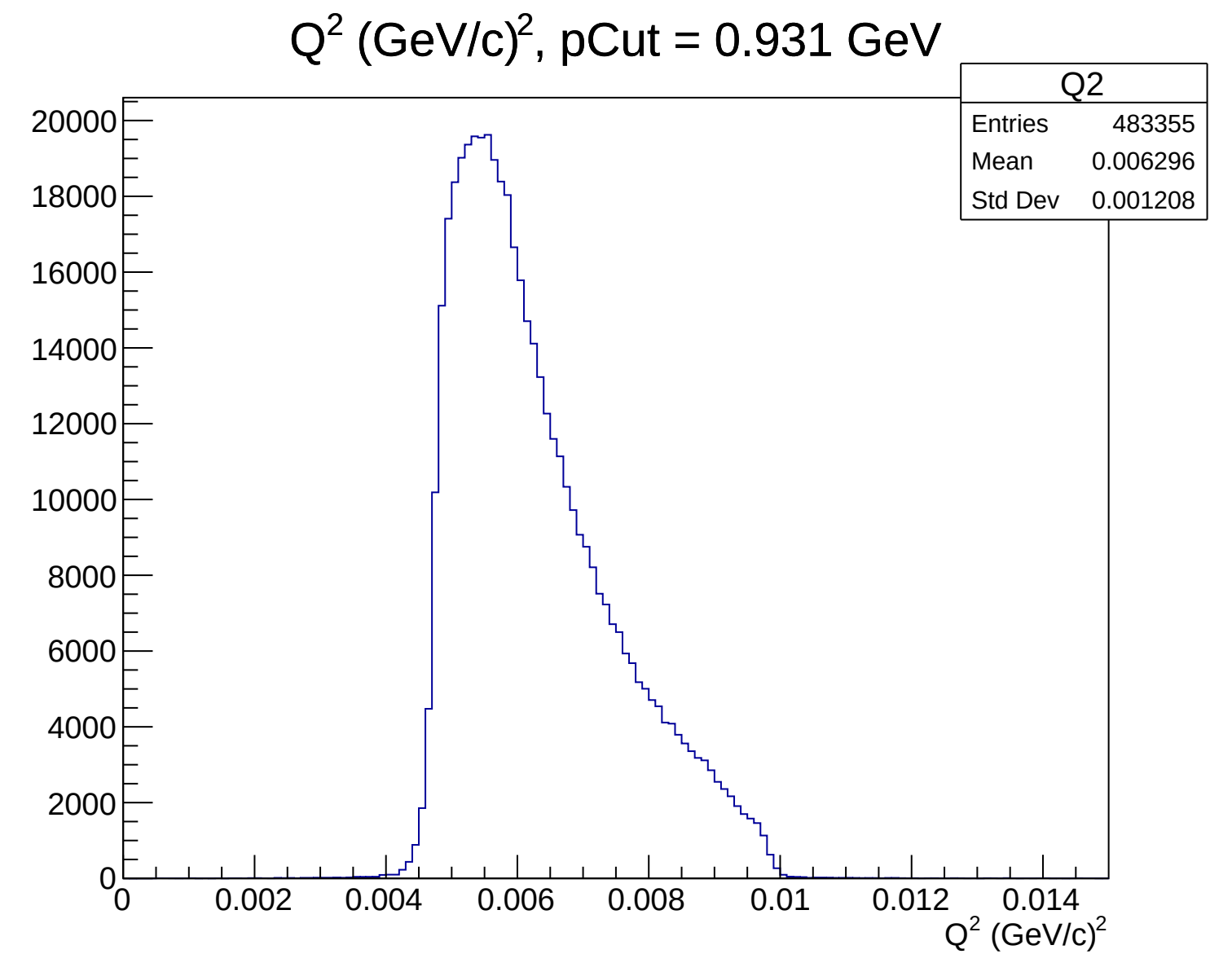

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw

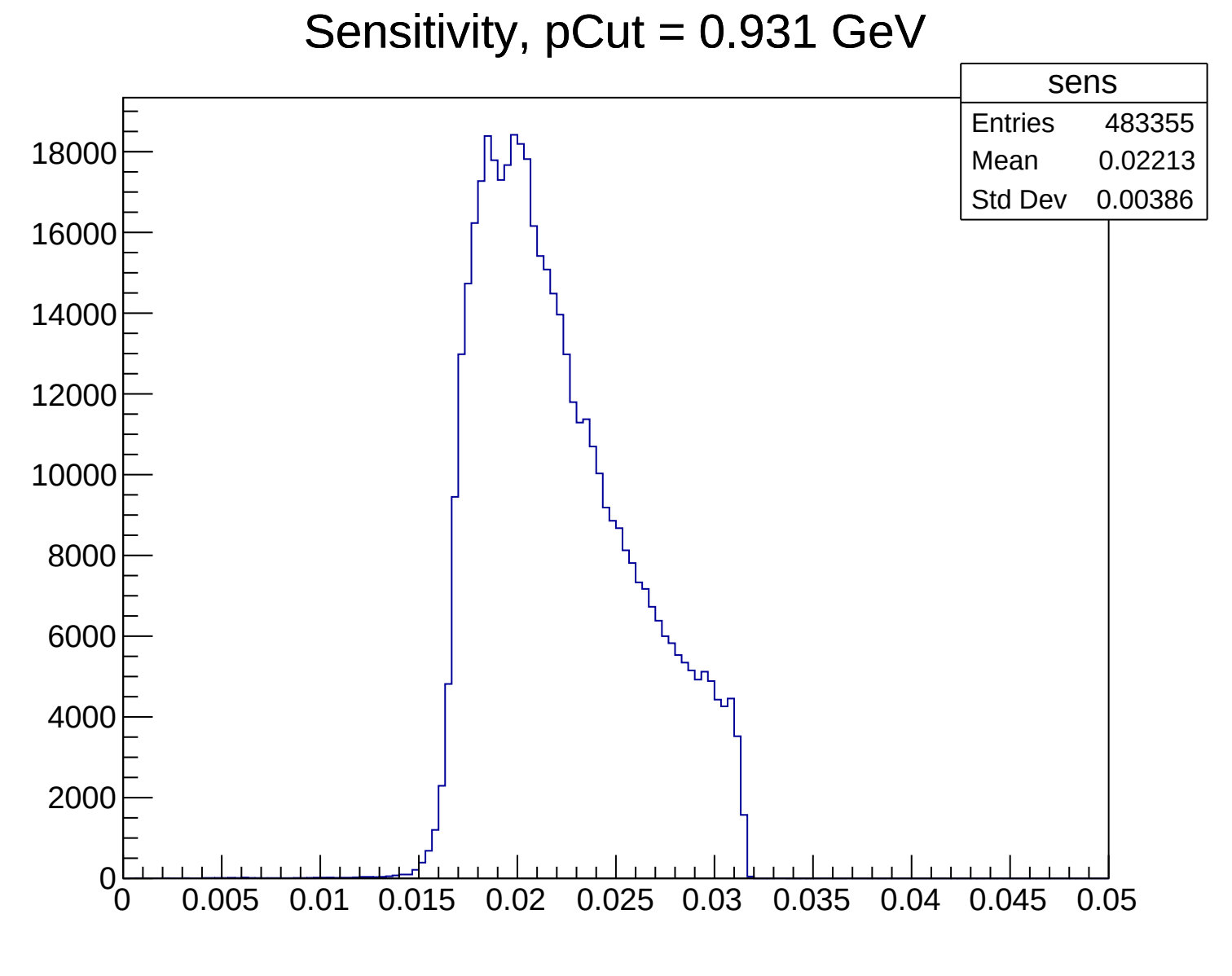

RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9310 GeV
R.gold.p (GeV)

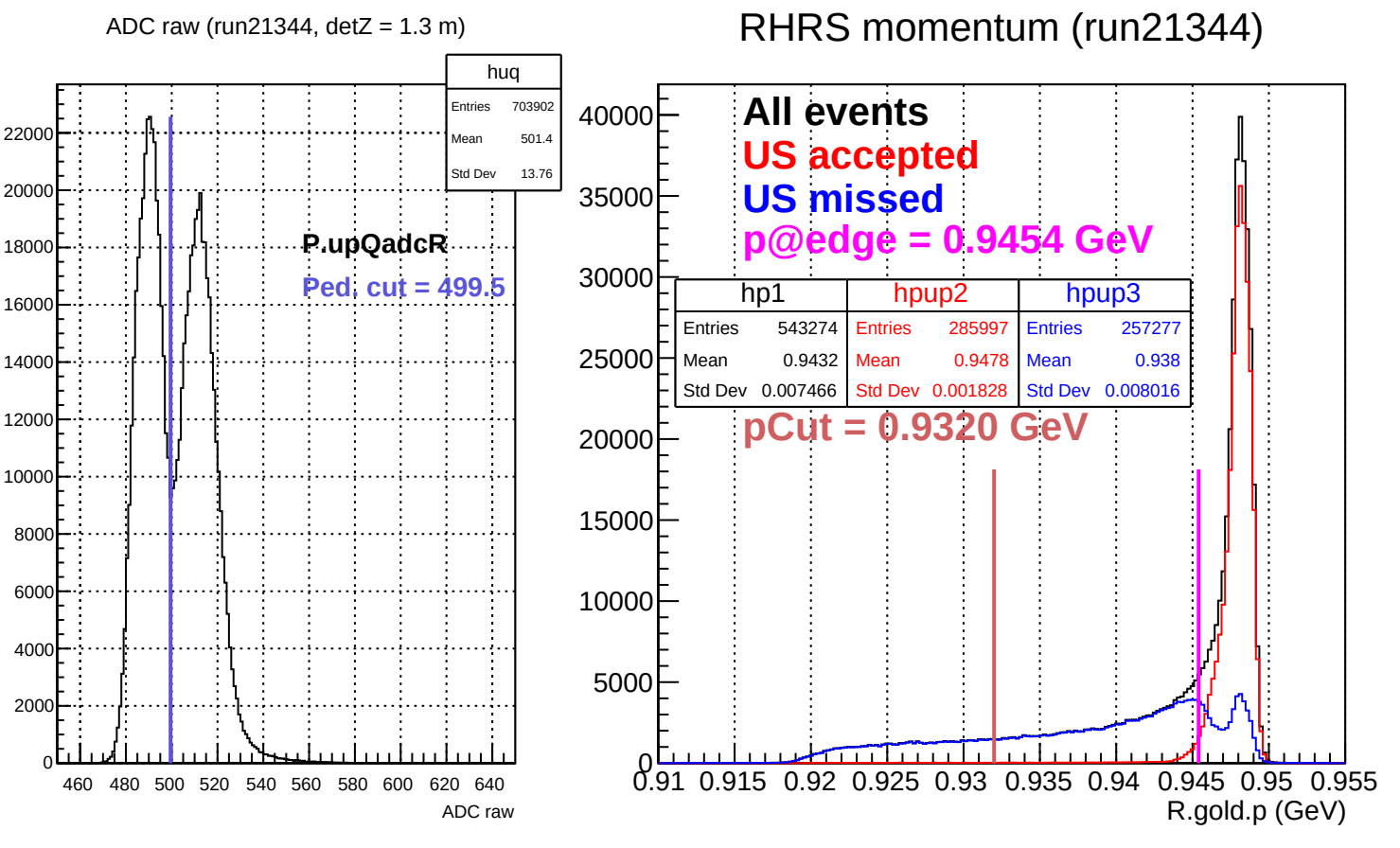

θlab (deg), pCut = 0.931 GeV
Theta
Entries 483355
Mean 4.779
Std Dev 0.4481
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

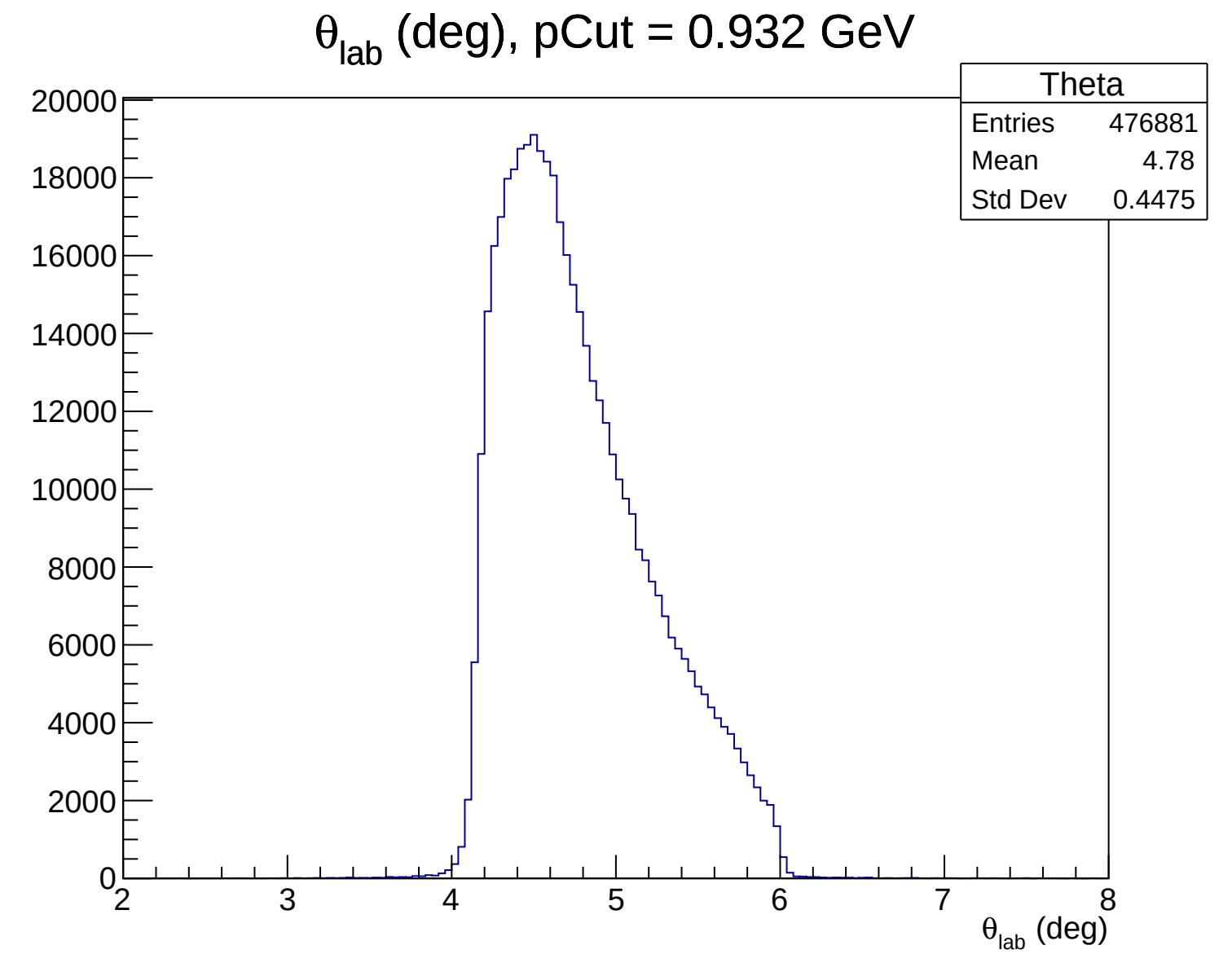

Asymmetry (ppm), pCut = 0.931 GeV
Asym
Entries 483355
Mean 0.5692
Std Dev 0.0771
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

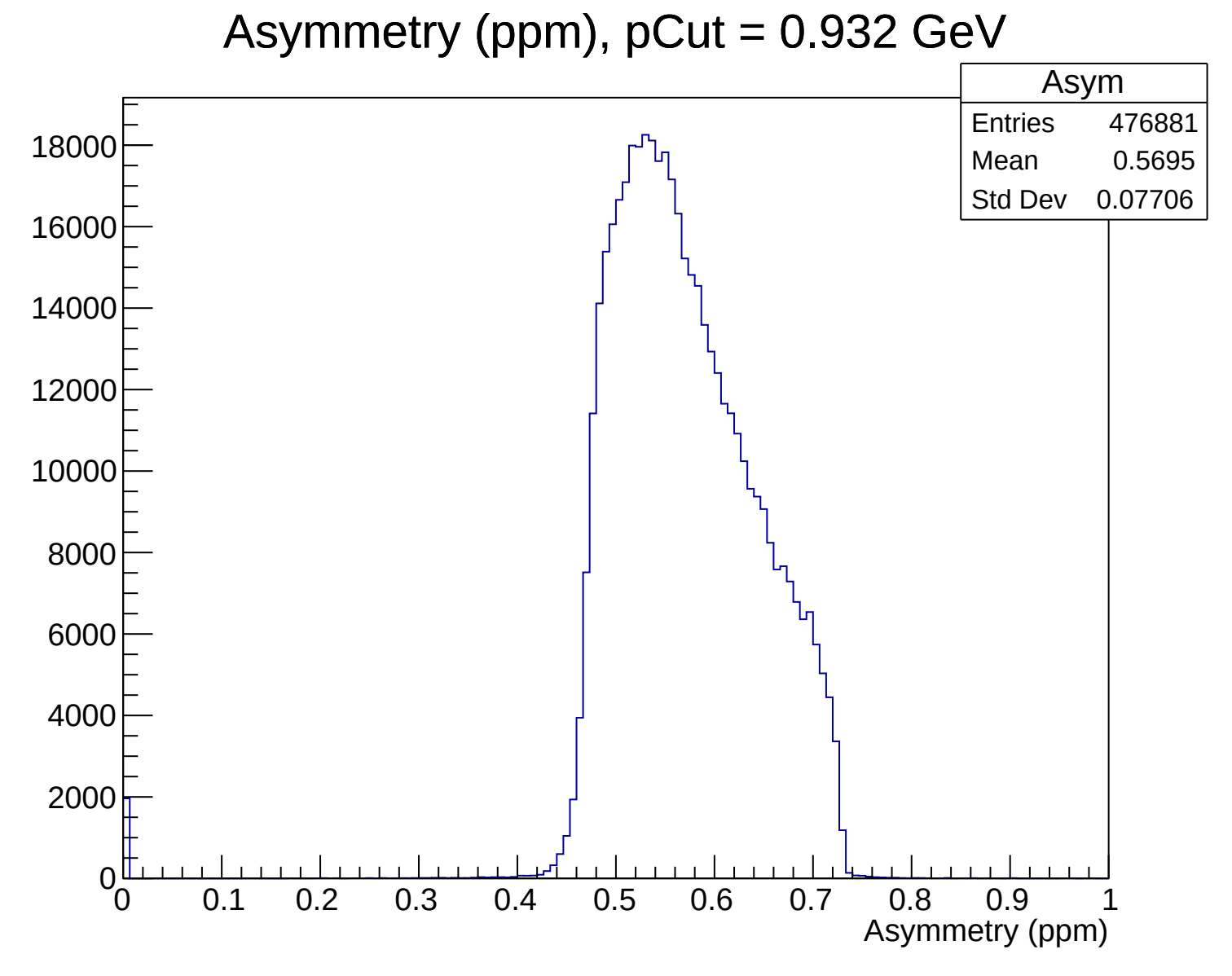

Stretched Asym. (ppm), pCut = 0.931 GeV
SAsym
Entries 483355
Mean 0.5563
Std Dev 0.07338
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

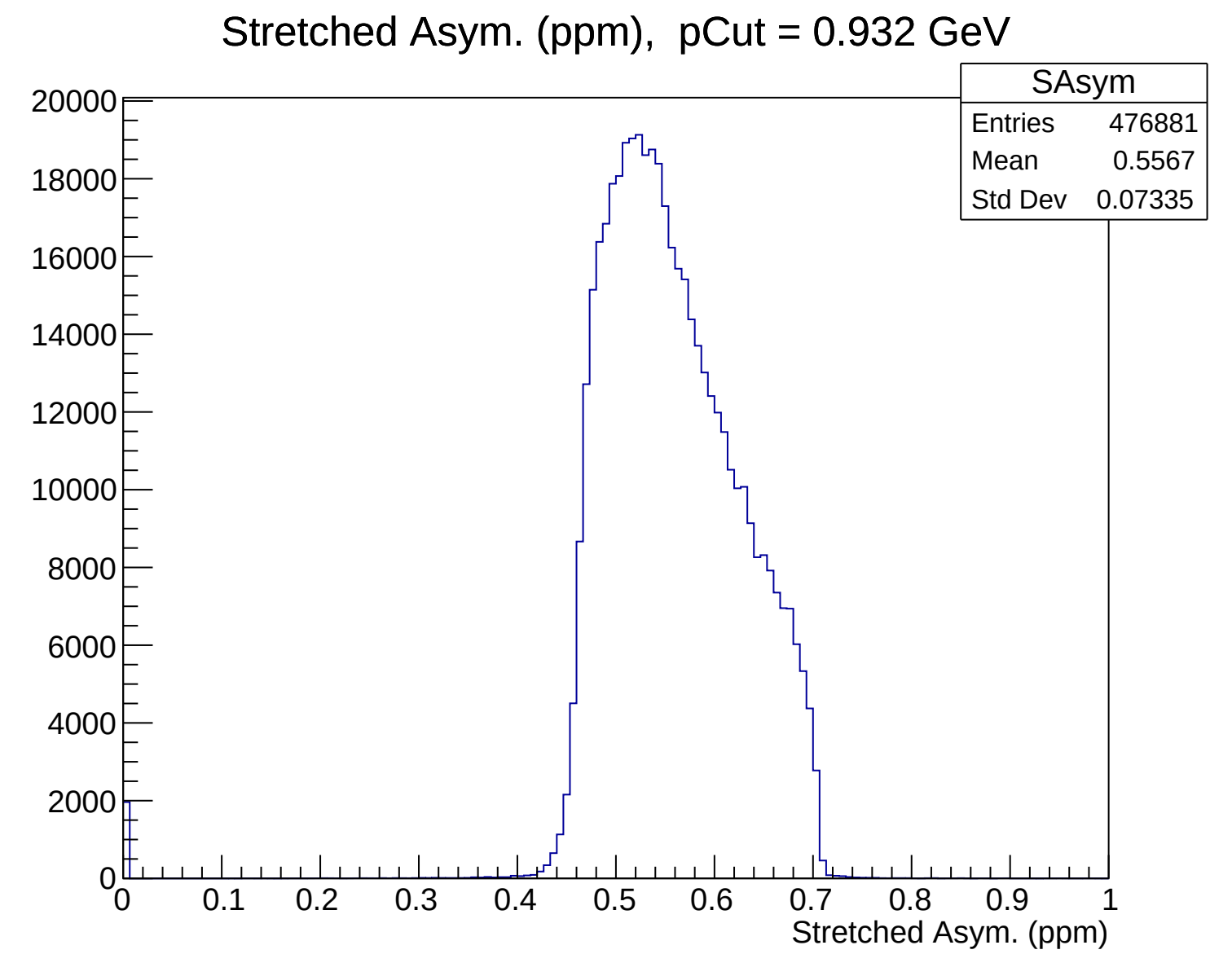

Q^2 (GeV/c)^2, pCut = 0.931 GeV
Q2
Entries 483355
Mean 0.006296
Std Dev 0.001208
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

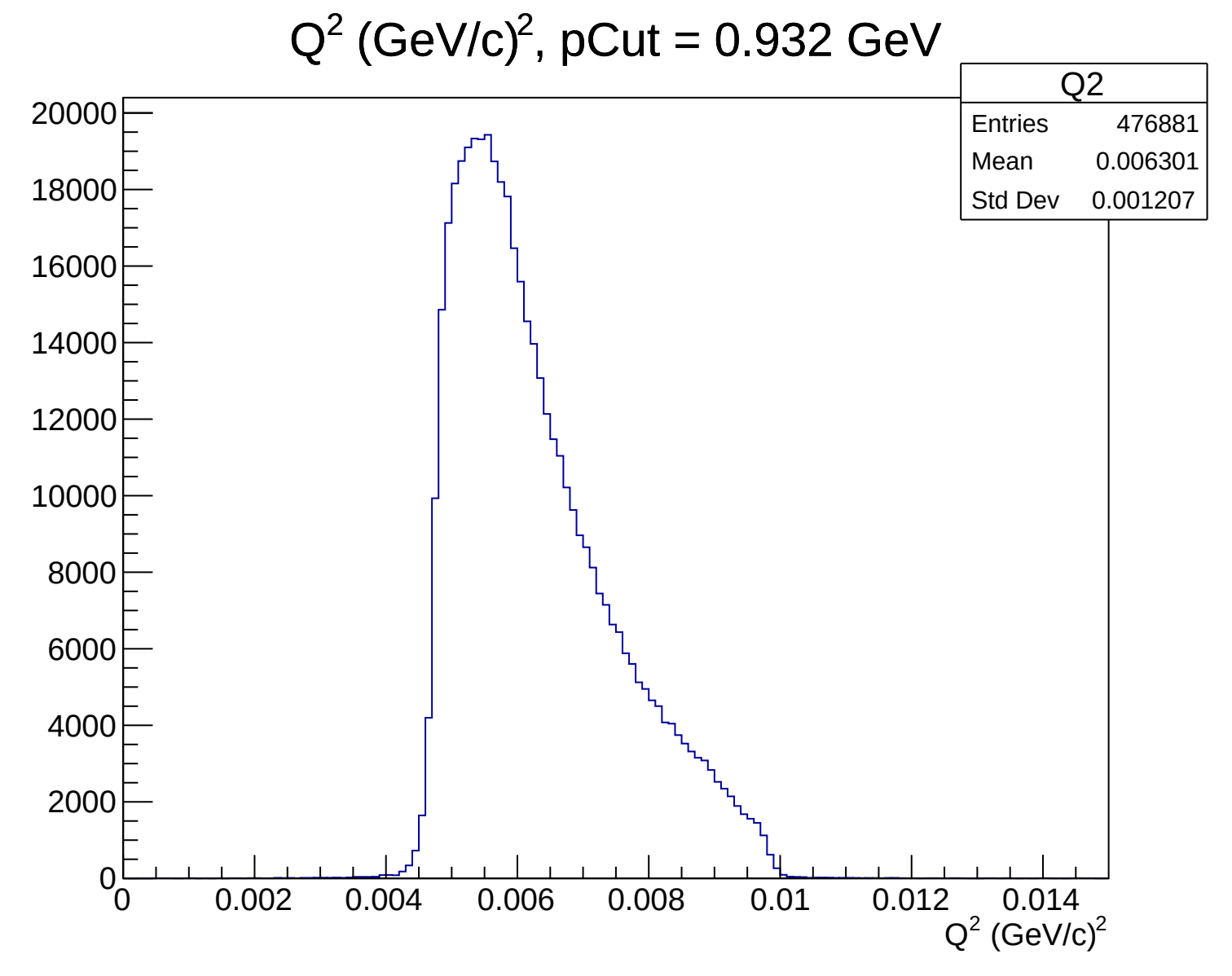

Sensitivity, pCut = 0.931 GeV
sens
Entries 483355
Mean 0.02213
Std Dev 0.00386
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

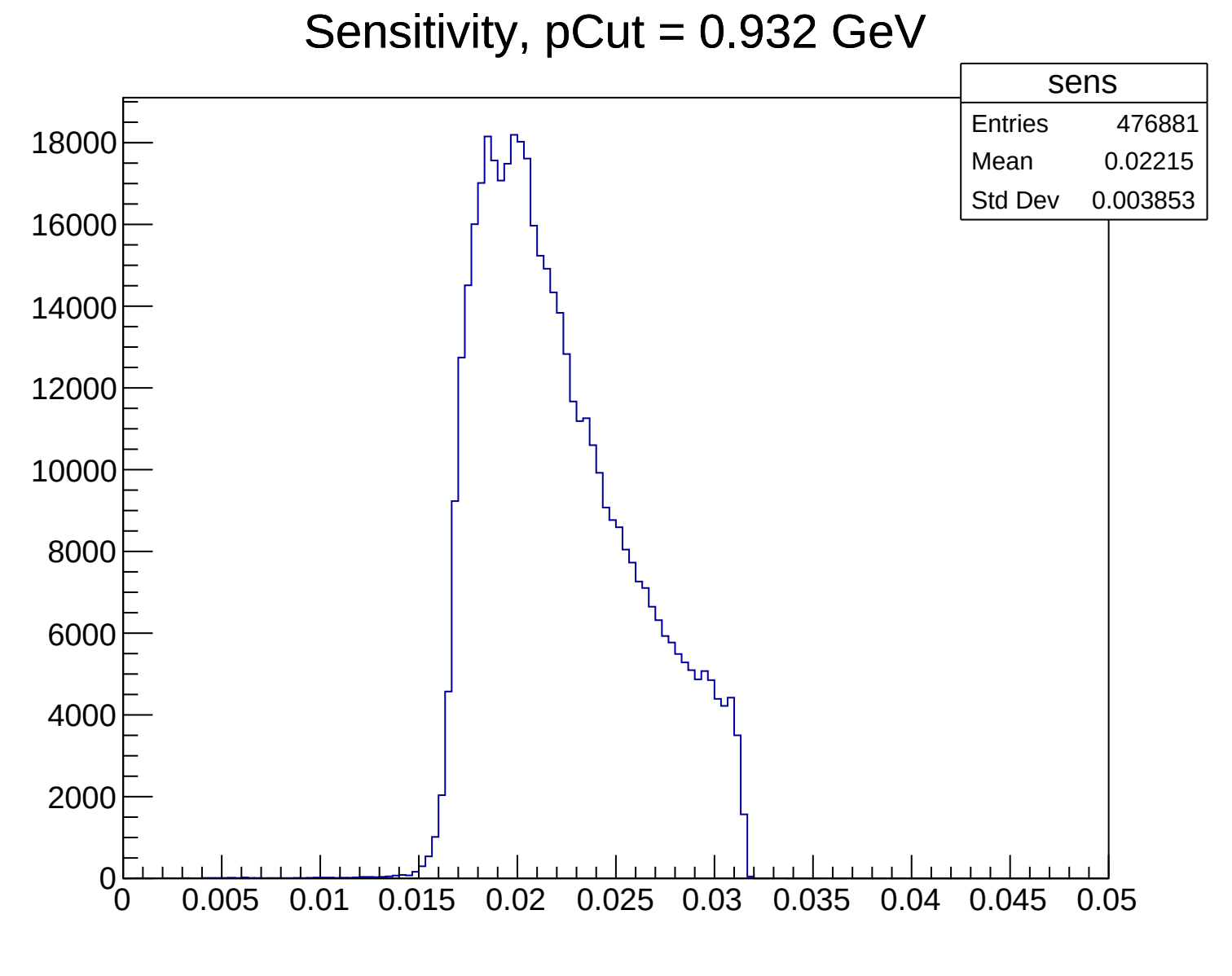

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9320 GeV
R.gold.p (GeV)

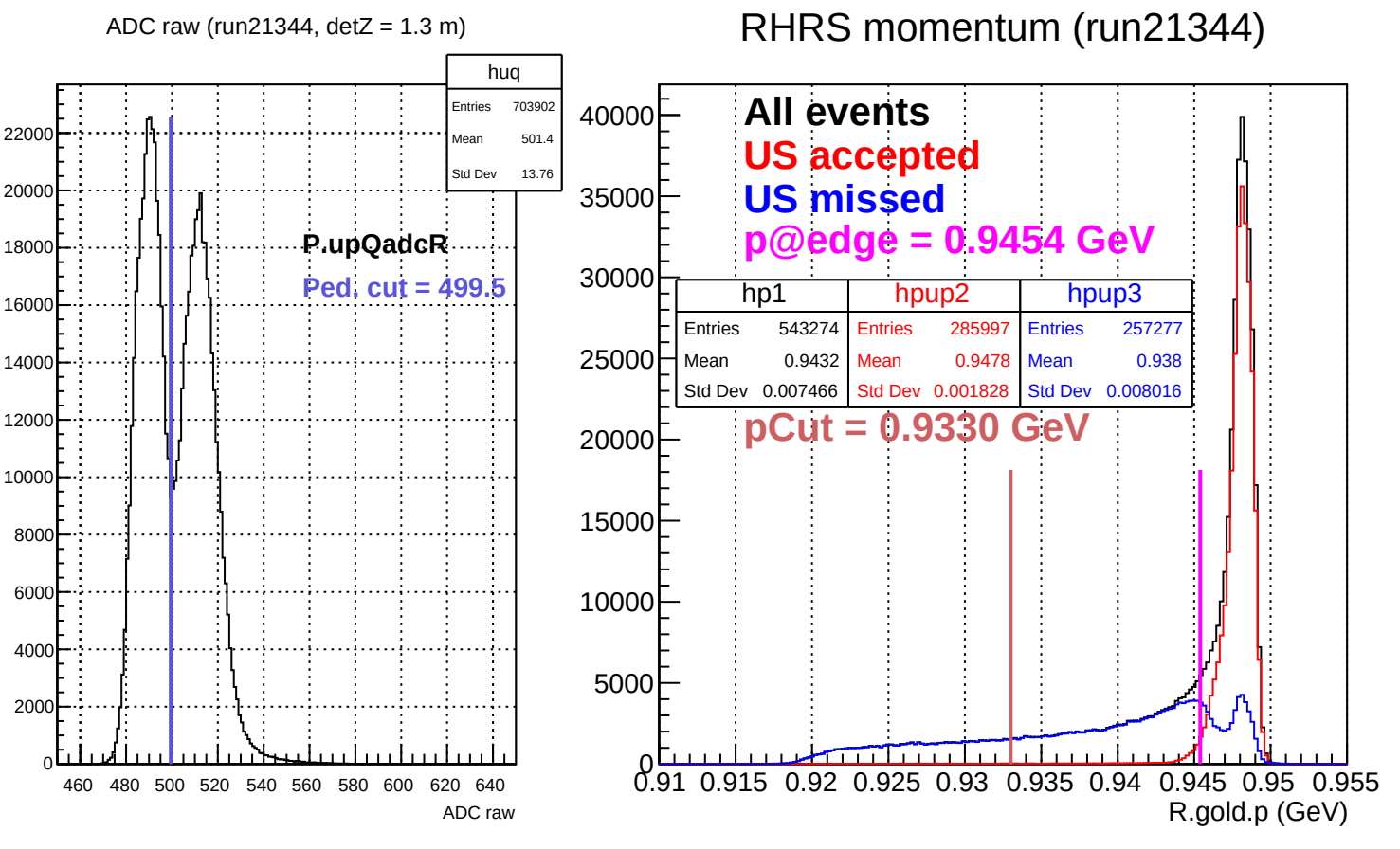

θlab (deg), pCut = 0.932 GeV
Theta
Entries 476881
Mean 4.78
Std Dev 0.4475
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

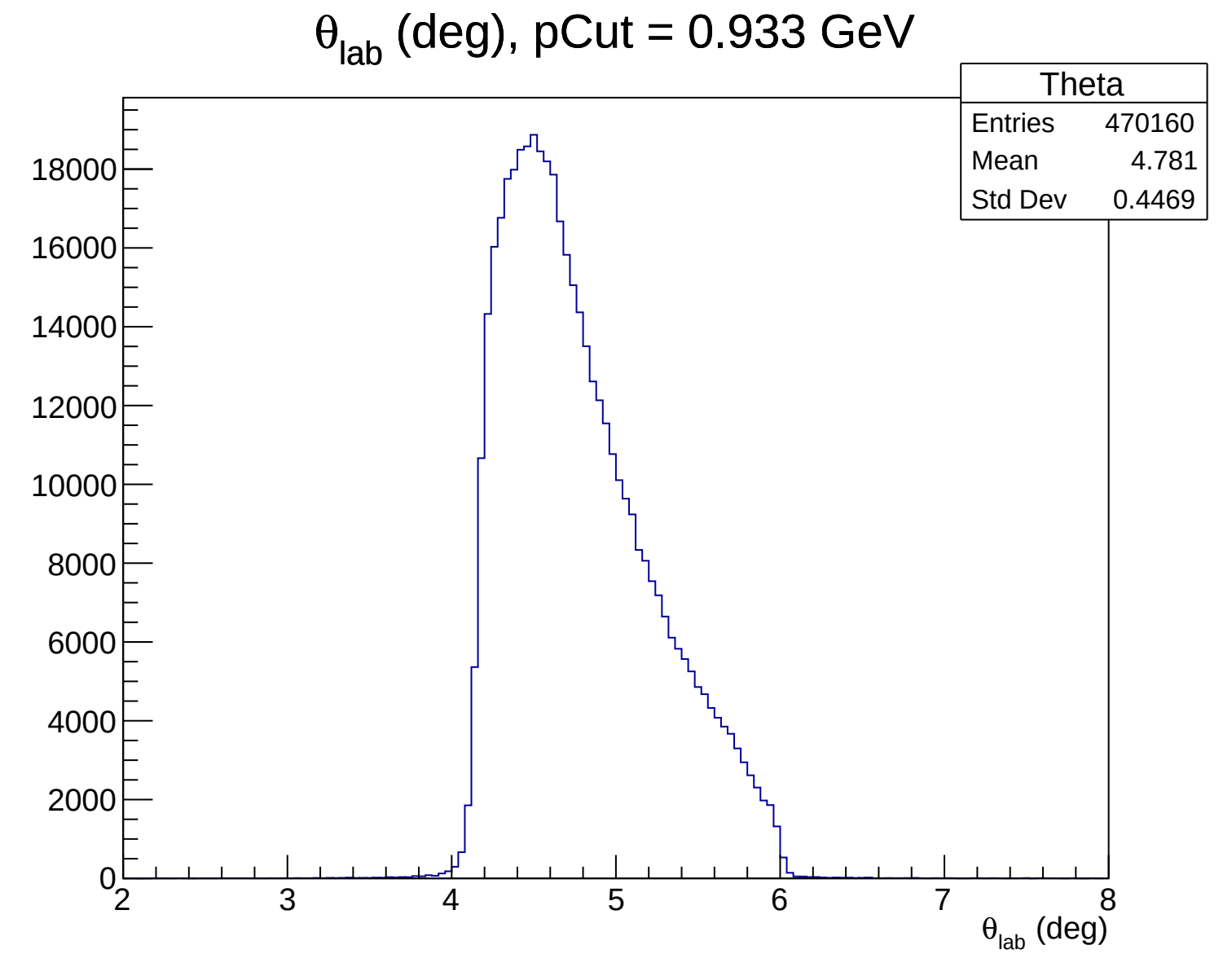

Asymmetry (ppm), pCut = 0.932 GeV
Asym
Entries 476881
Mean 0.5695
Std Dev 0.07706
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

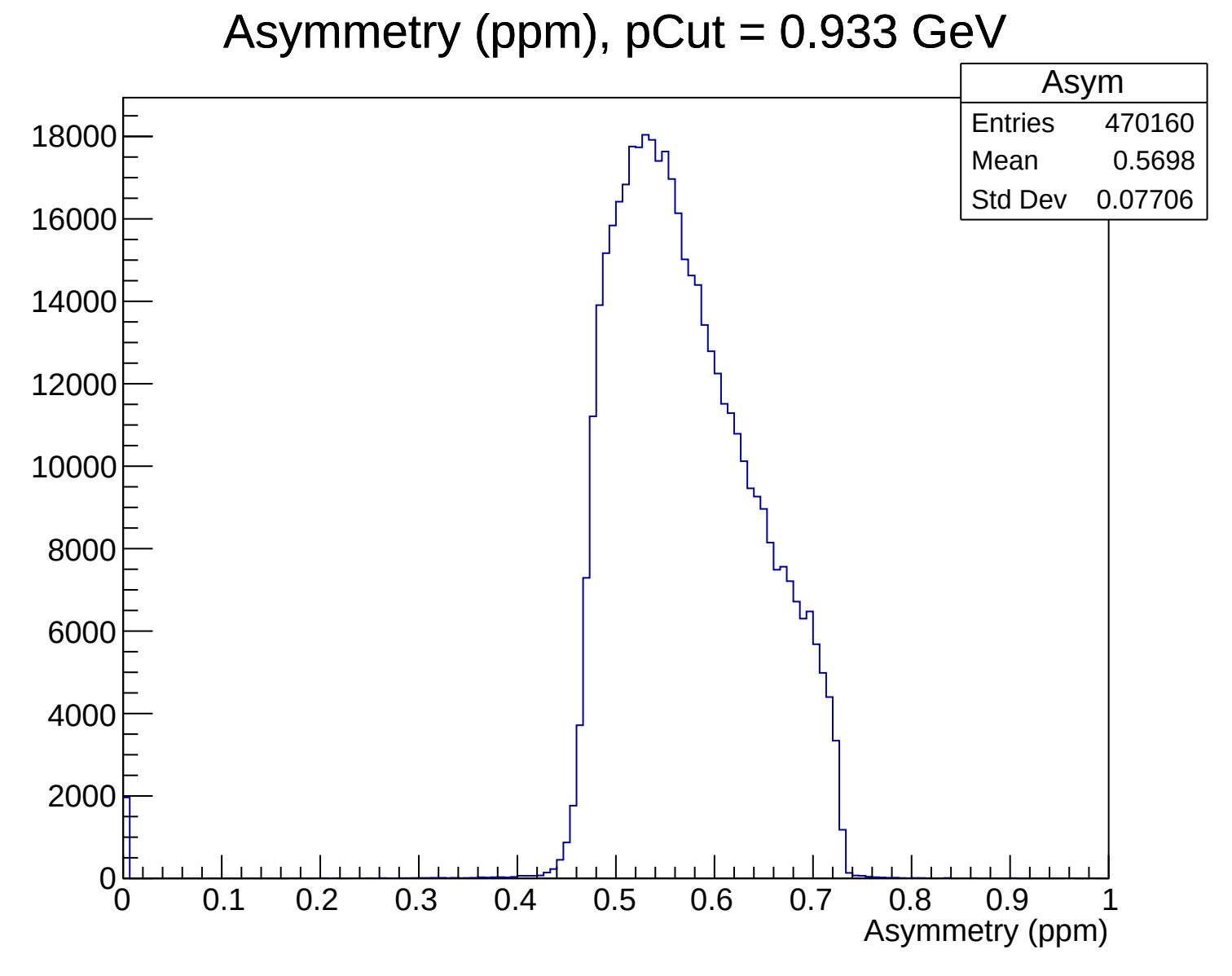

Stretched Asym. (ppm), pCut = 0.932 GeV
SAsym
Entries 476881
Mean 0.5567
Std Dev 0.07335
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

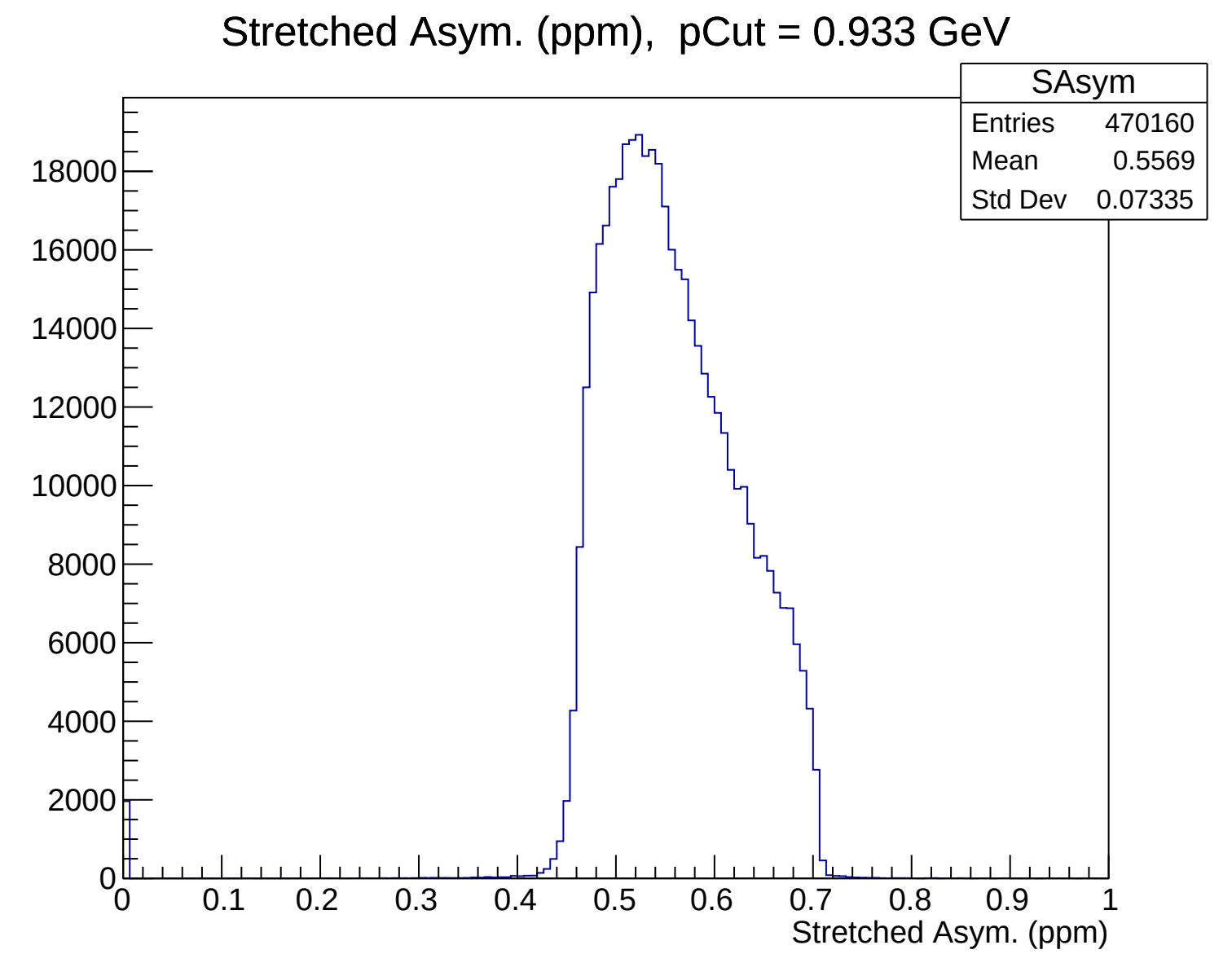

Q^2 (GeV/c)^2, pCut = 0.932 GeV
Q2
Entries 476881
Mean 0.006301
Std Dev 0.001207
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

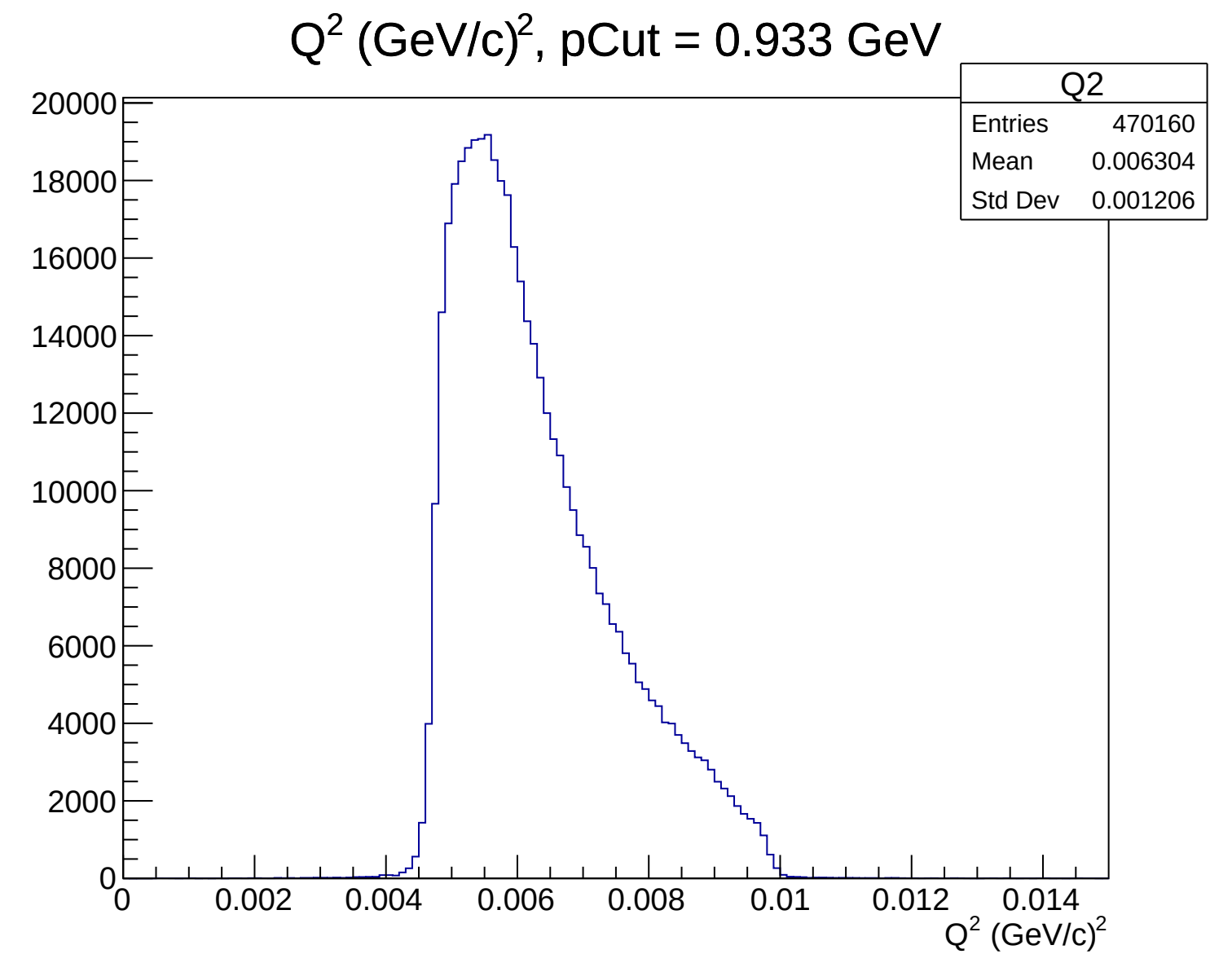

Sensitivity, pCut = 0.932 GeV
sens
Entries 476881
Mean 0.02215
Std Dev 0.003853
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

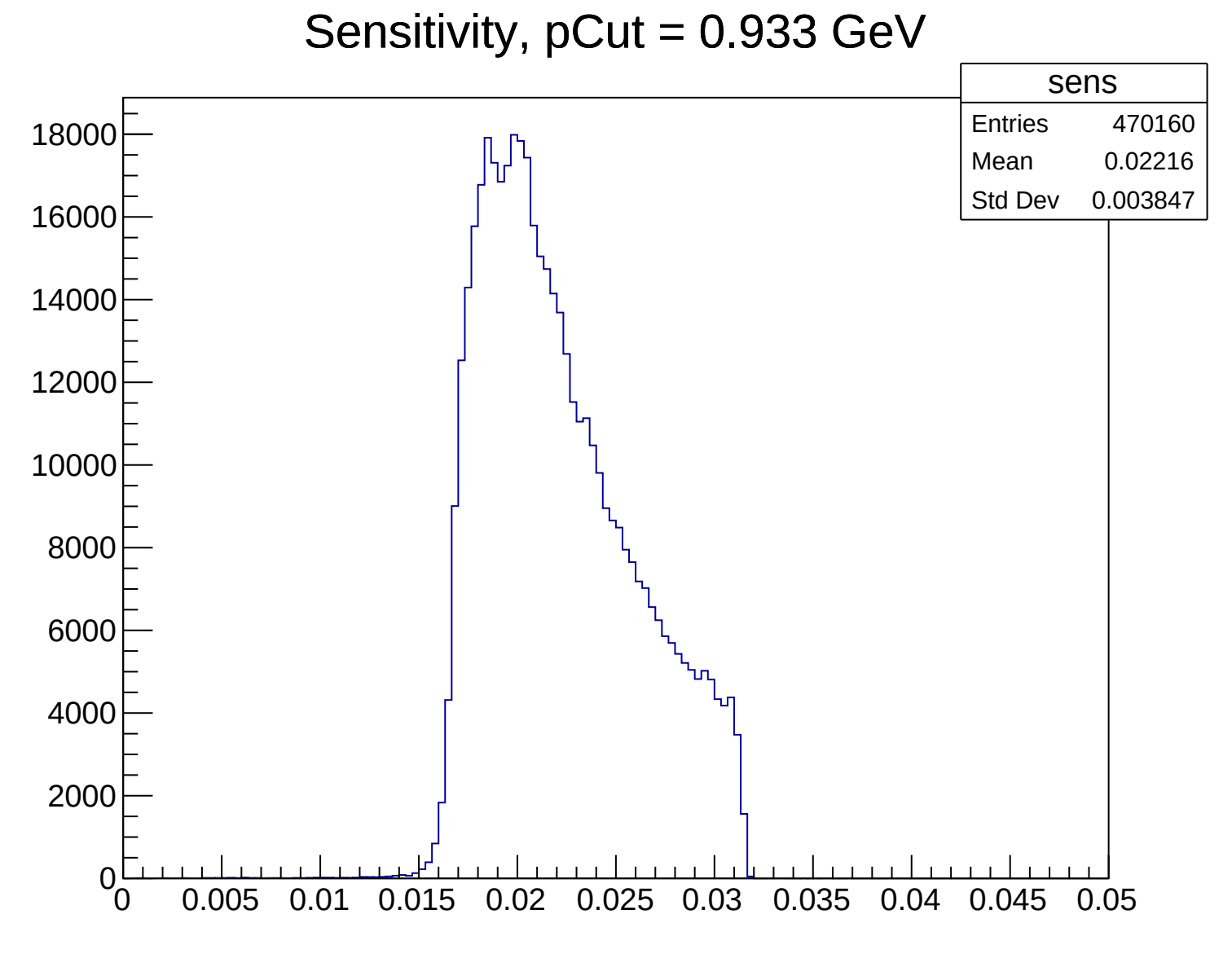

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9330 GeV
R.gold.p (GeV)

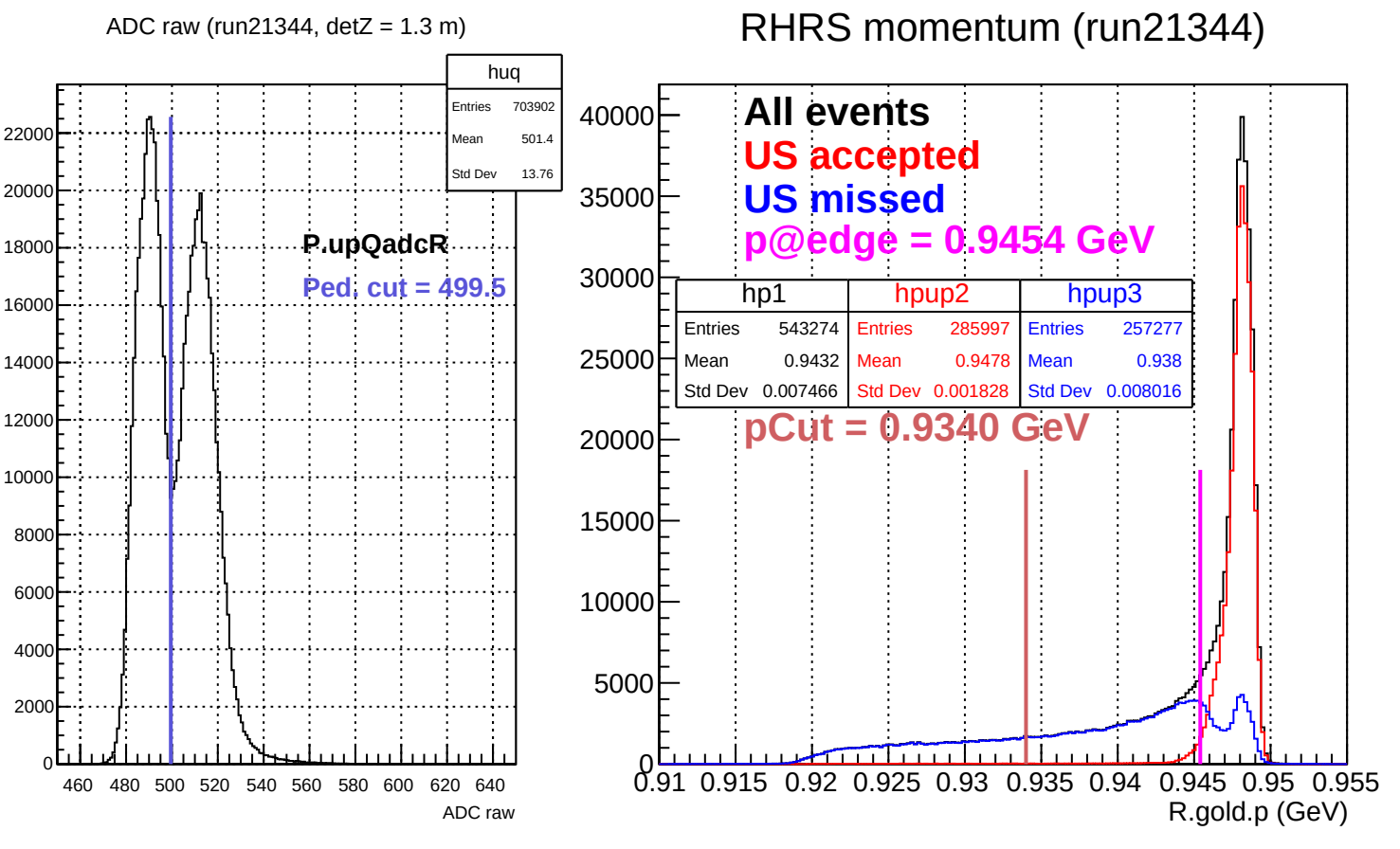

θlab (deg), pCut = 0.933 GeV
Theta
Entries 470160
Mean 4.781
Std Dev 0.4469
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

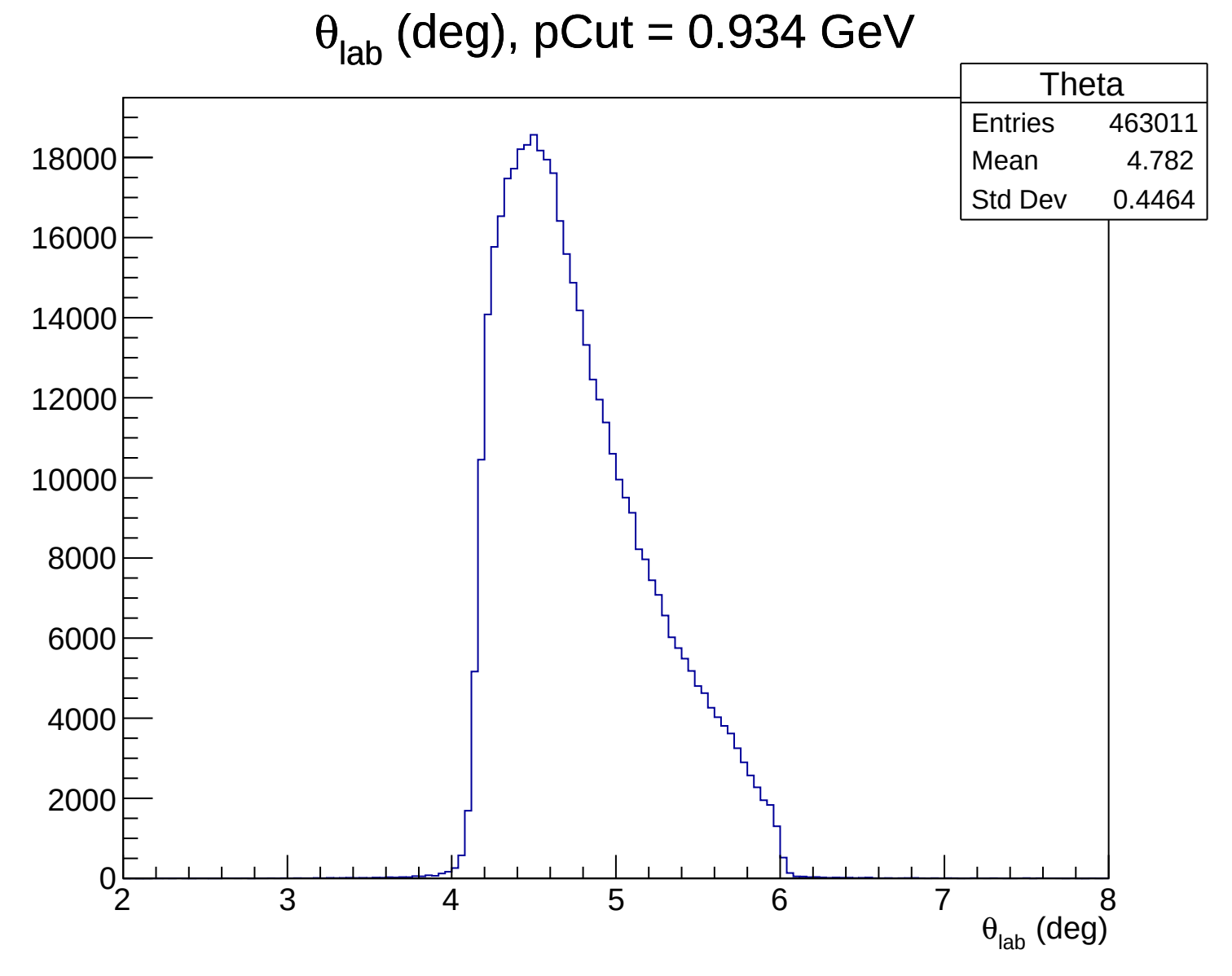

Asymmetry (ppm), pCut = 0.933 GeV
Asym
Entries 470160
Mean 0.5698
Std Dev 0.07706
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

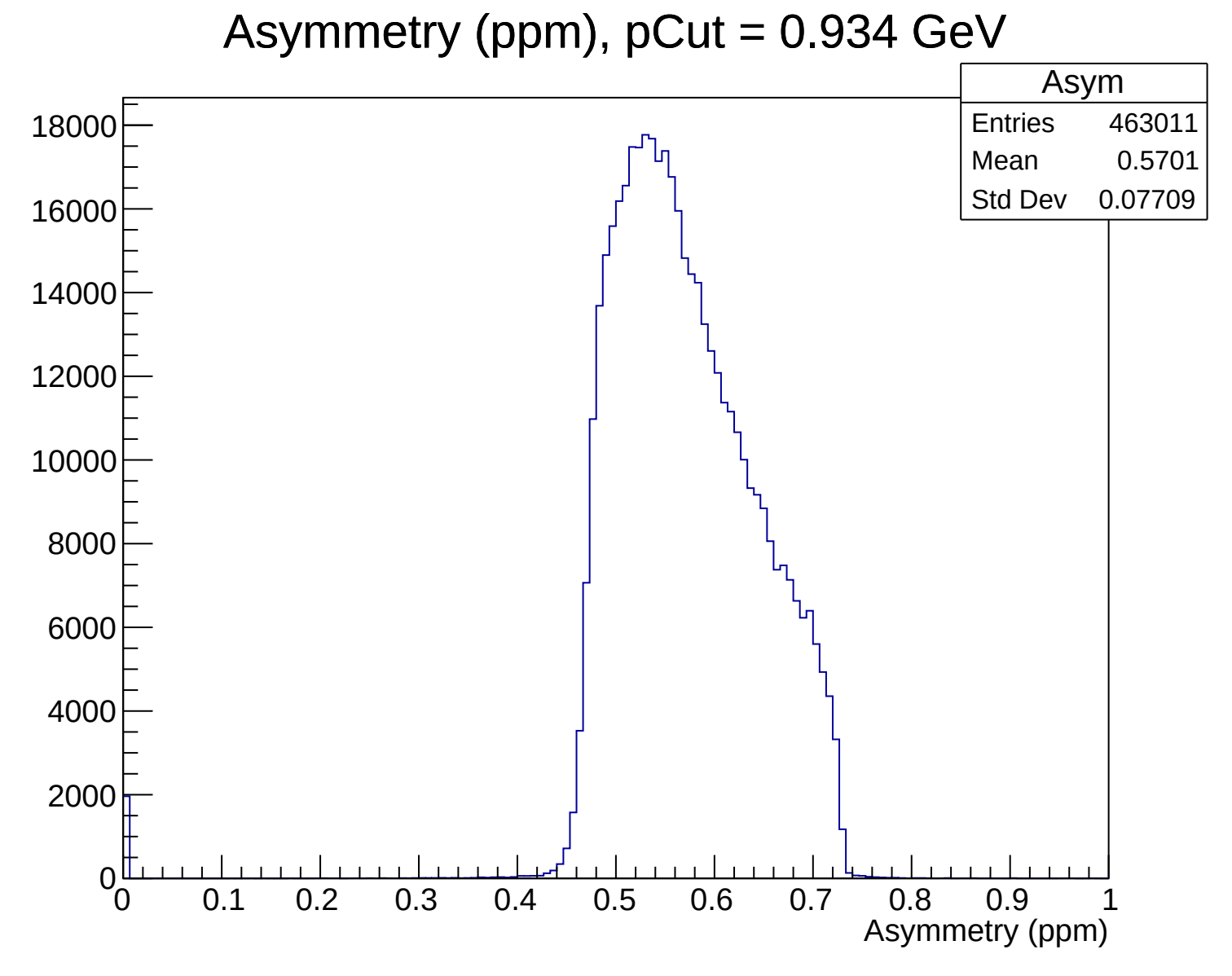

Stretched Asym. (ppm), pCut = 0.933 GeV
SAsym
Entries 470160
Mean 0.5569
Std Dev 0.07335
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

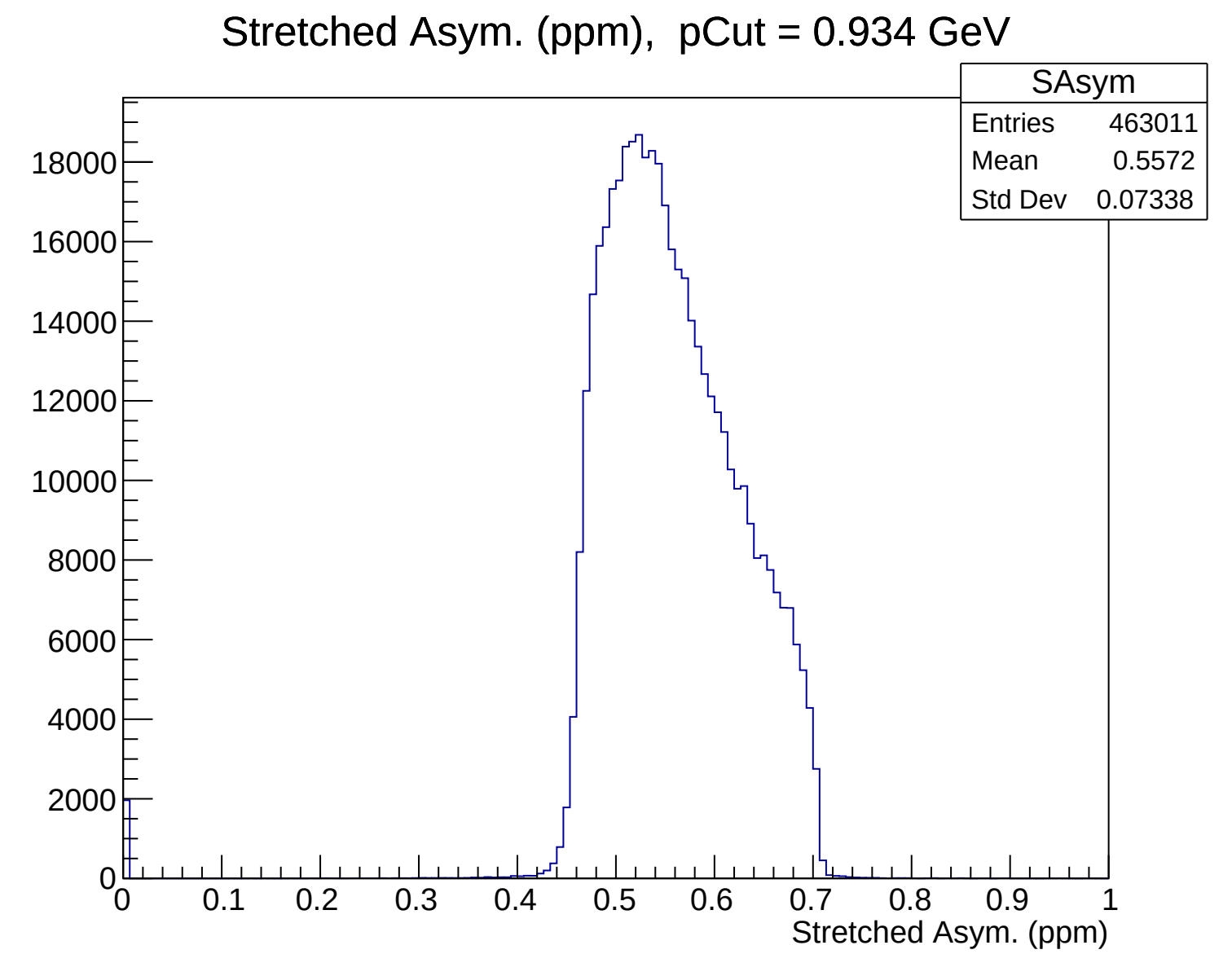

Q^2 (GeV/c)^2, pCut = 0.933 GeV
Q2
Entries 470160
Mean 0.006304
Std Dev 0.001206
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

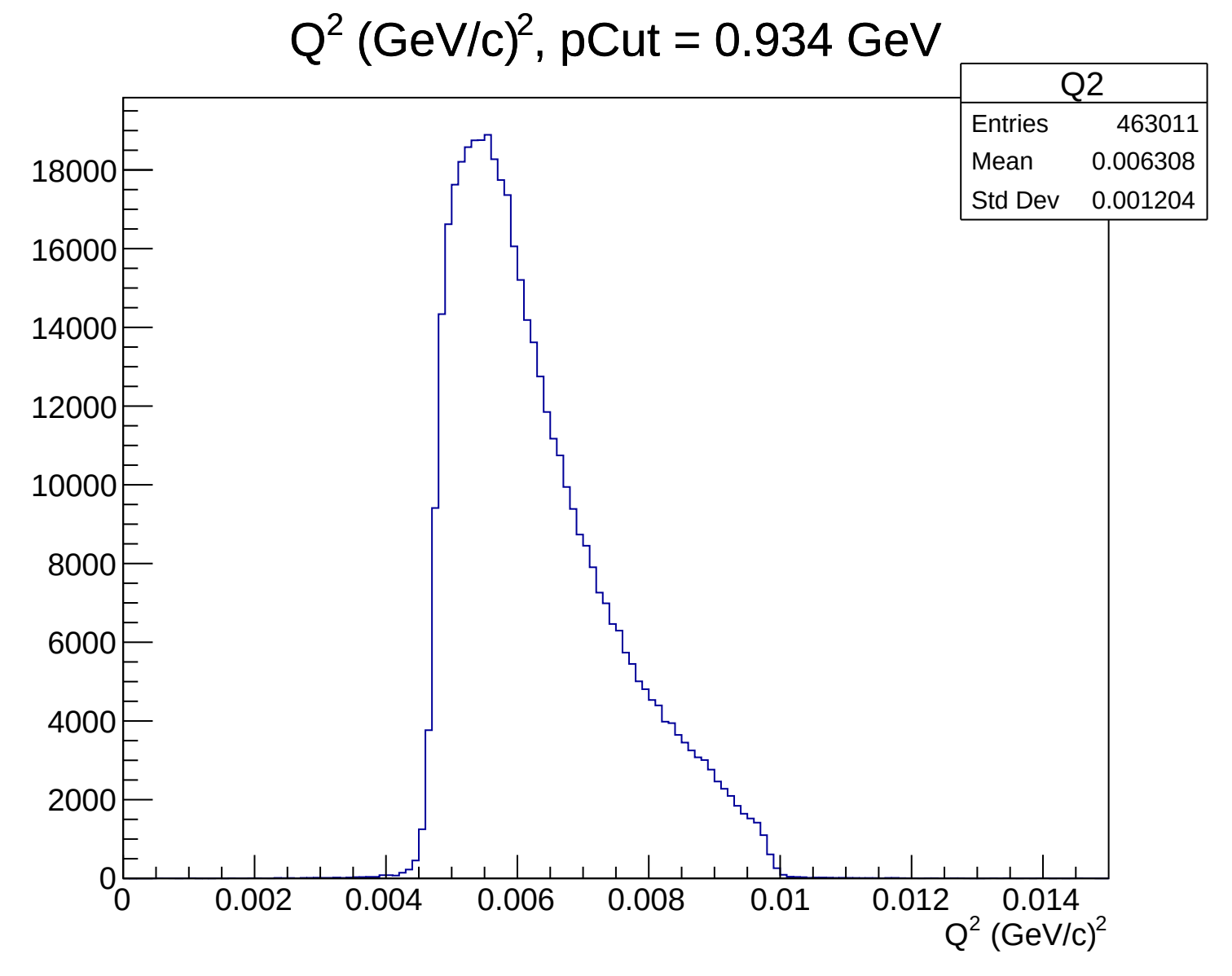

Sensitivity, pCut = 0.933 GeV
sens
Entries 470160
Mean 0.02216
Std Dev 0.003847
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

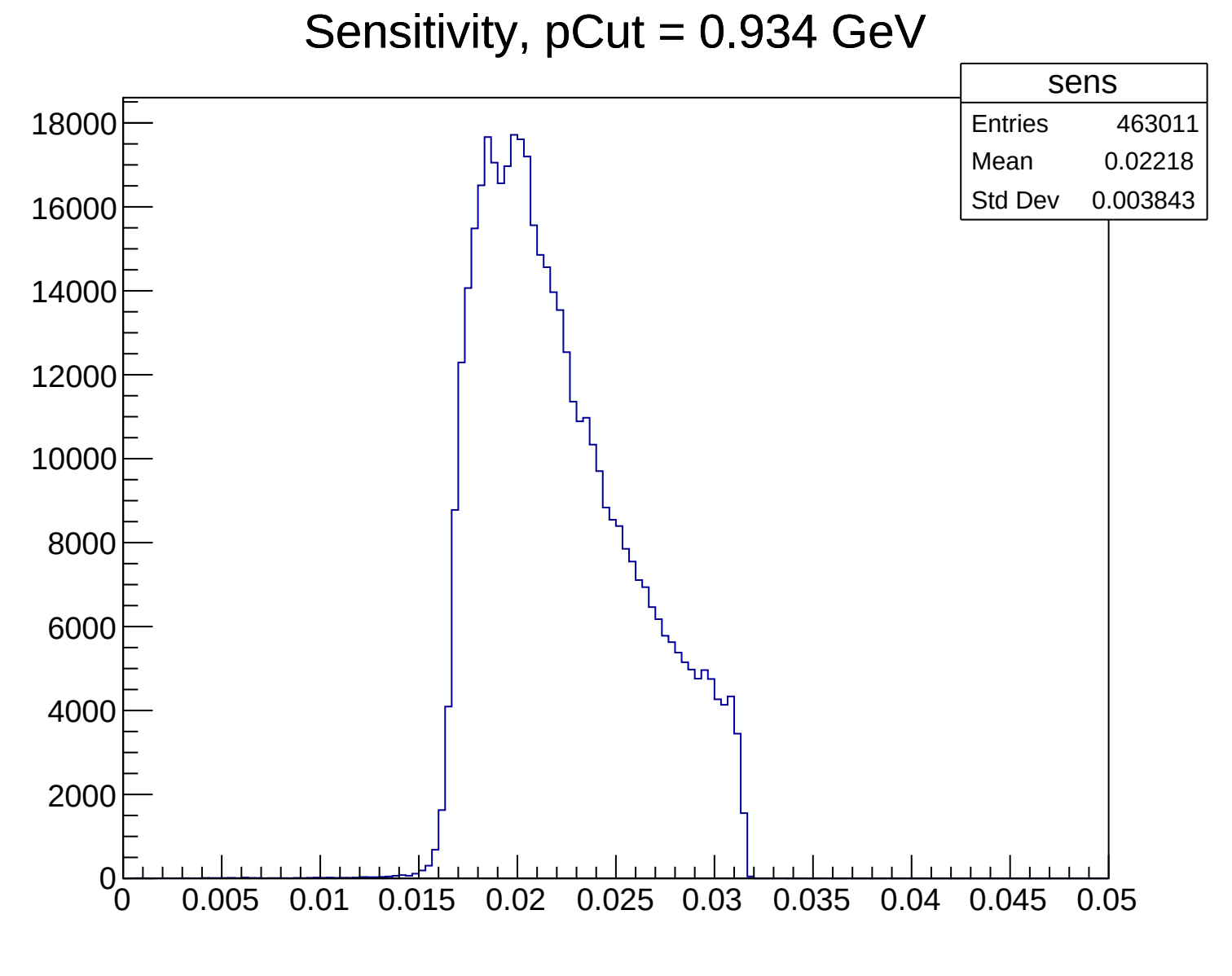

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9340 GeV
R.gold.p (GeV)

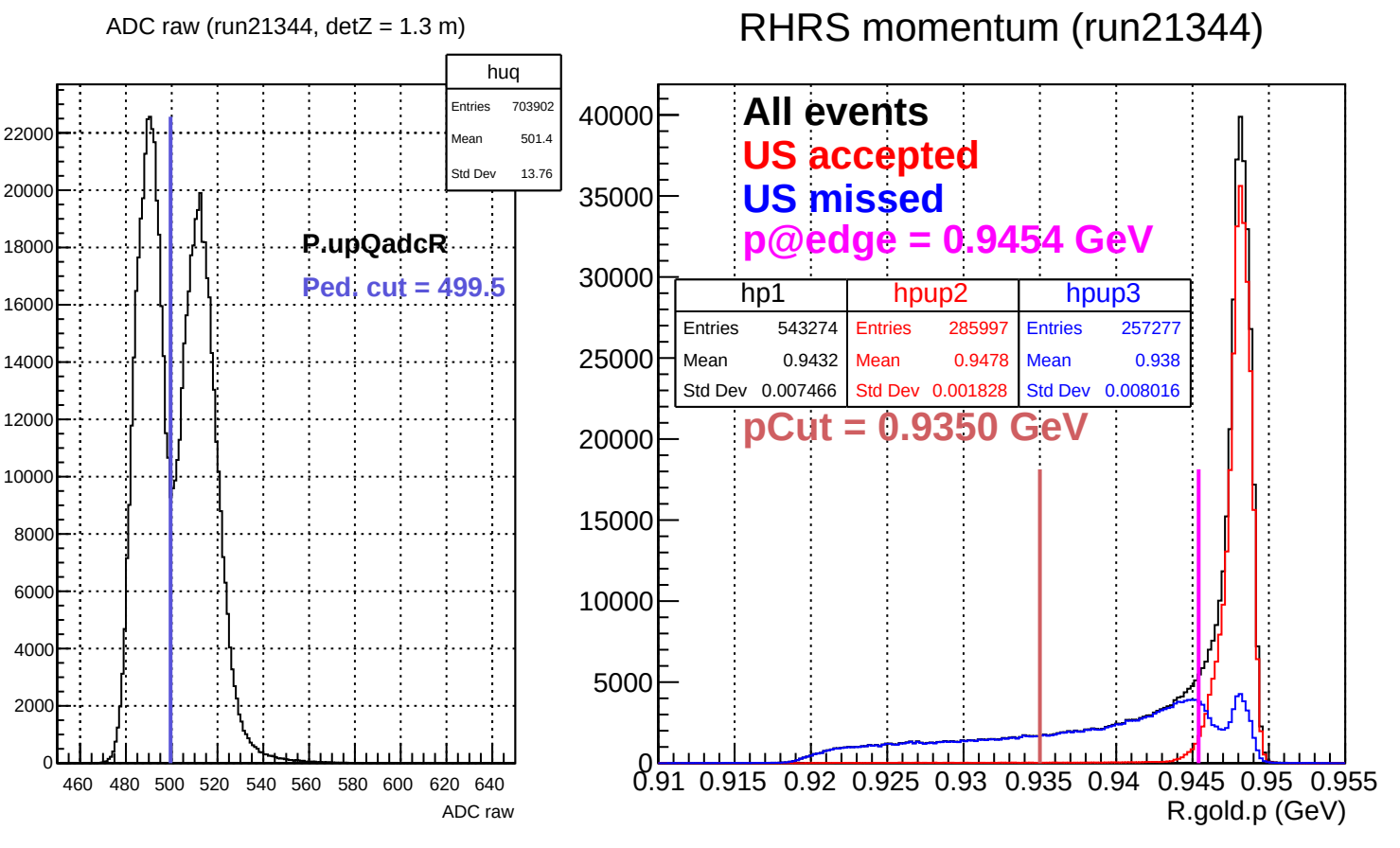

θlab (deg), pCut = 0.934 GeV
Theta
Entries 463011
Mean 4.782
Std Dev 0.4464
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

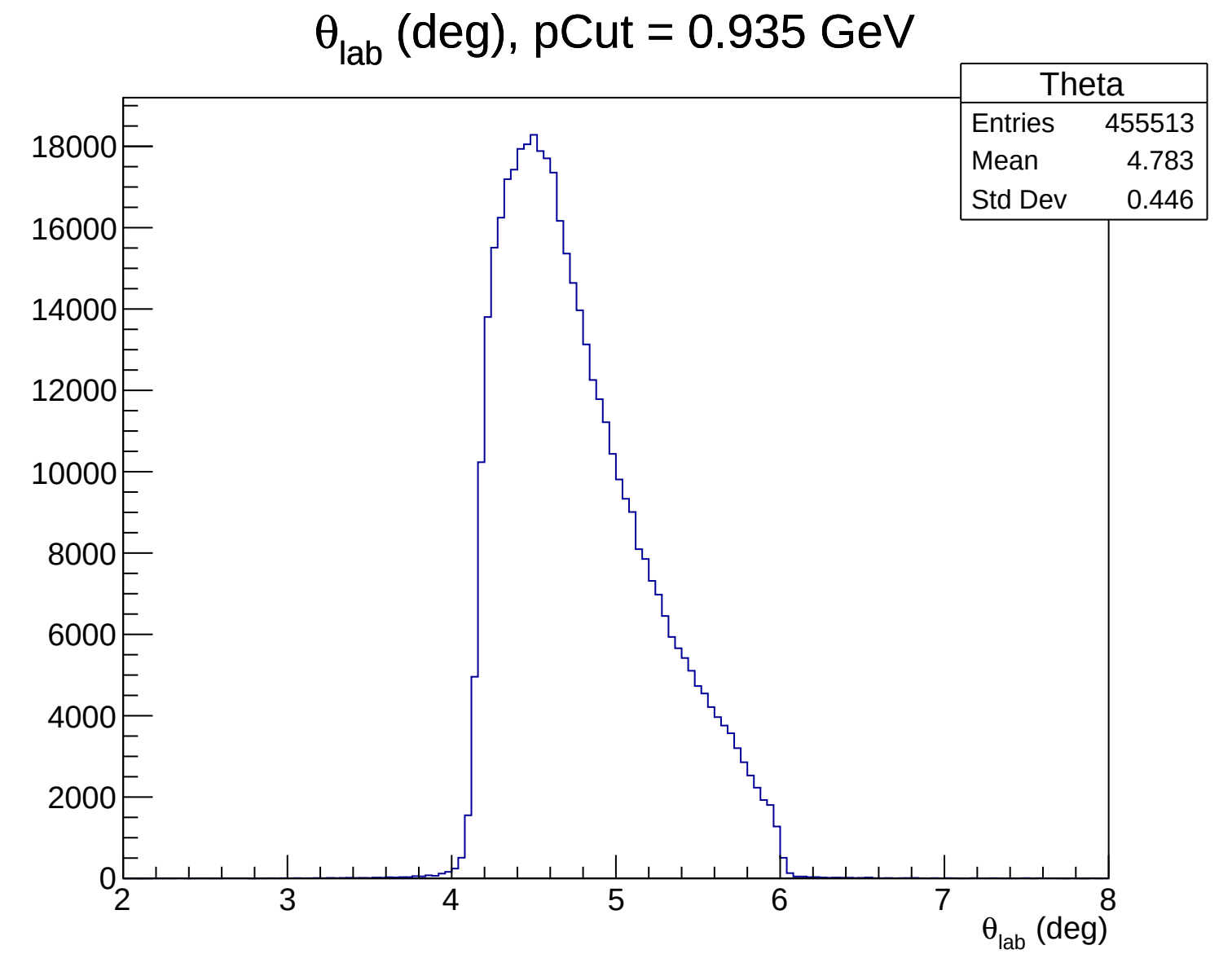

Asymmetry (ppm), pCut = 0.934 GeV
Asym
Entries 463011
Mean 0.5701
Std Dev 0.07709
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

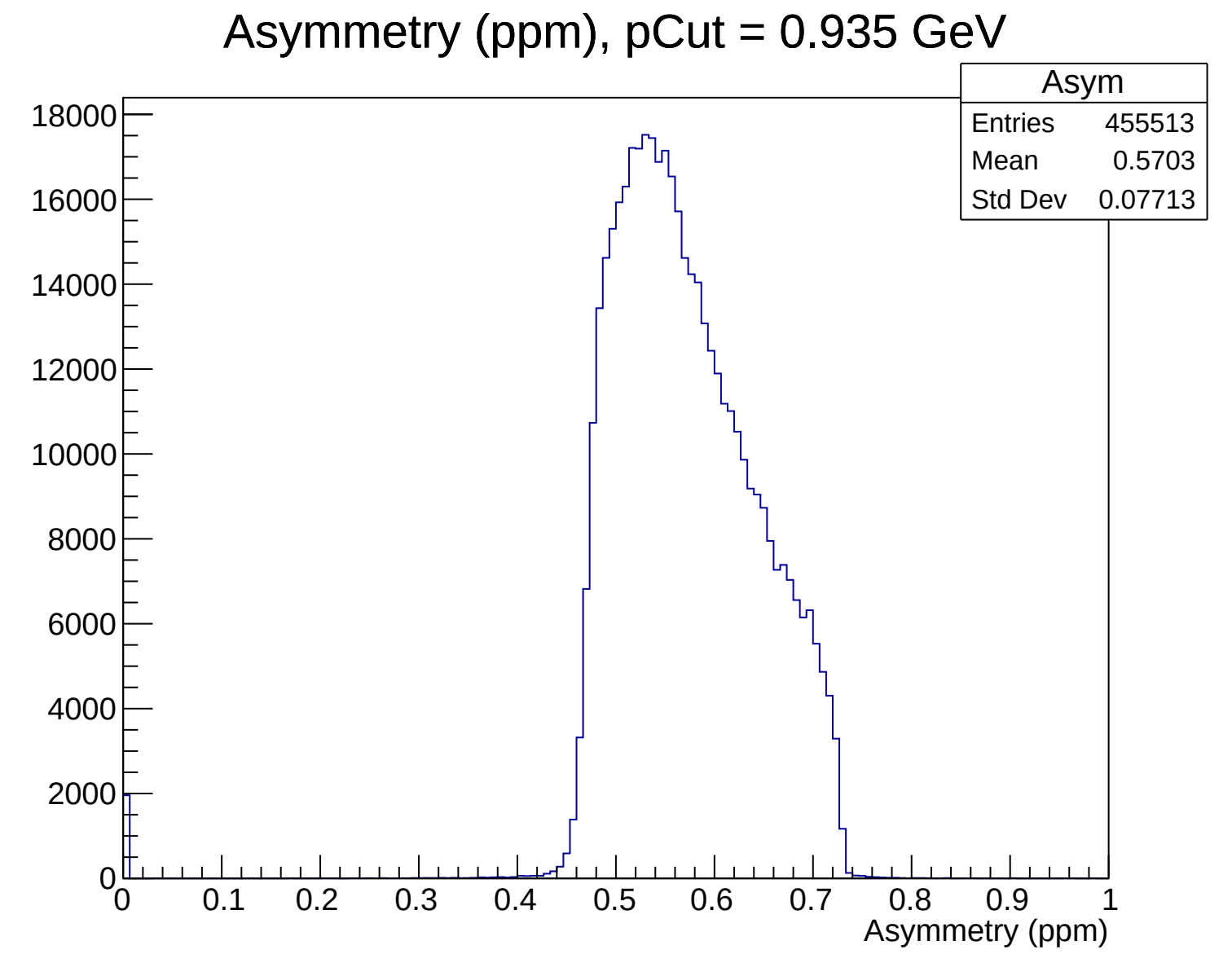

Stretched Asym. (ppm), pCut = 0.934 GeV
SAsym
Entries 463011
Mean 0.5572
Std Dev 0.07338
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

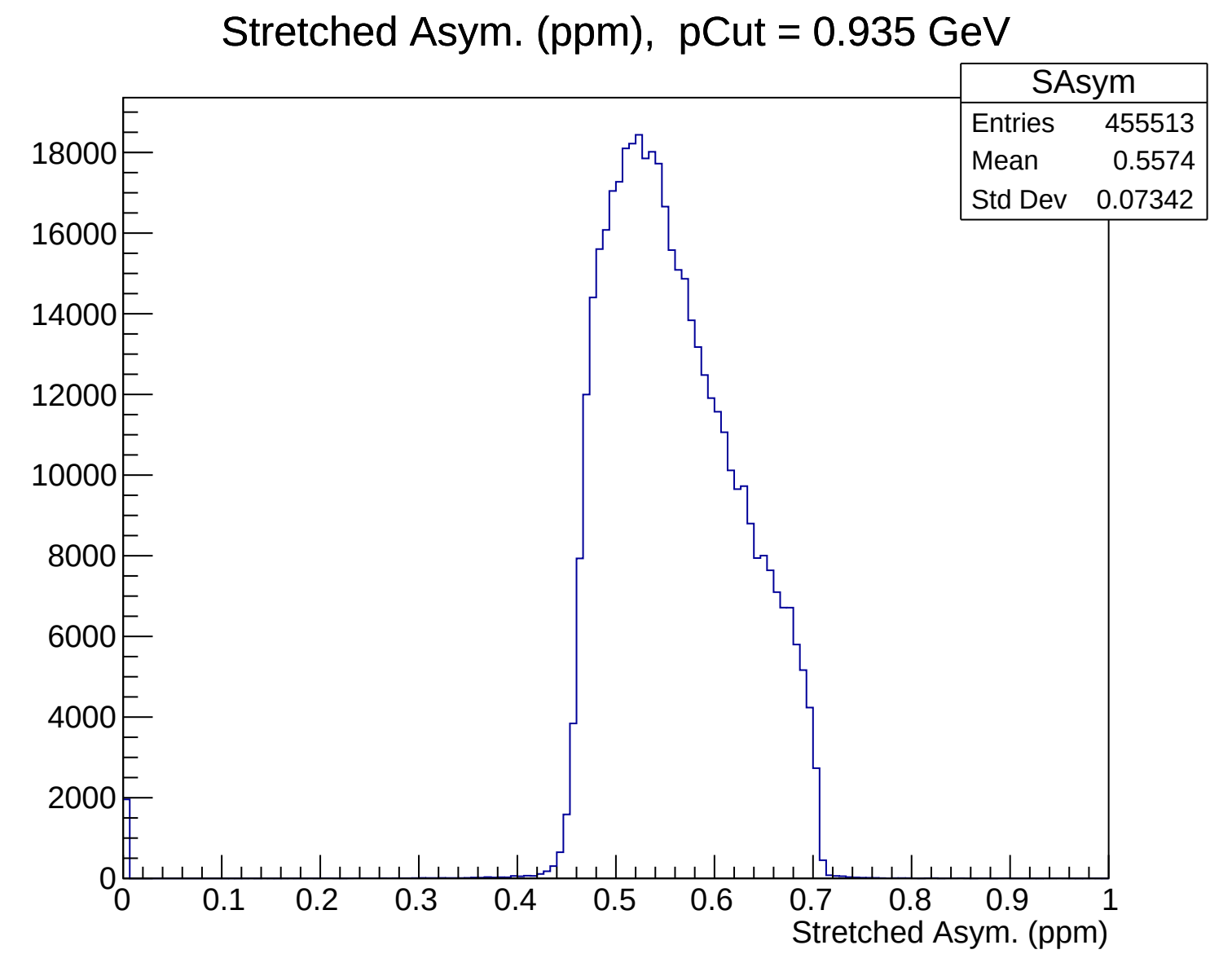

Q^2 (GeV/c)^2, pCut = 0.934 GeV
Q2
Entries 463011
Mean 0.006308
Std Dev 0.001204
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

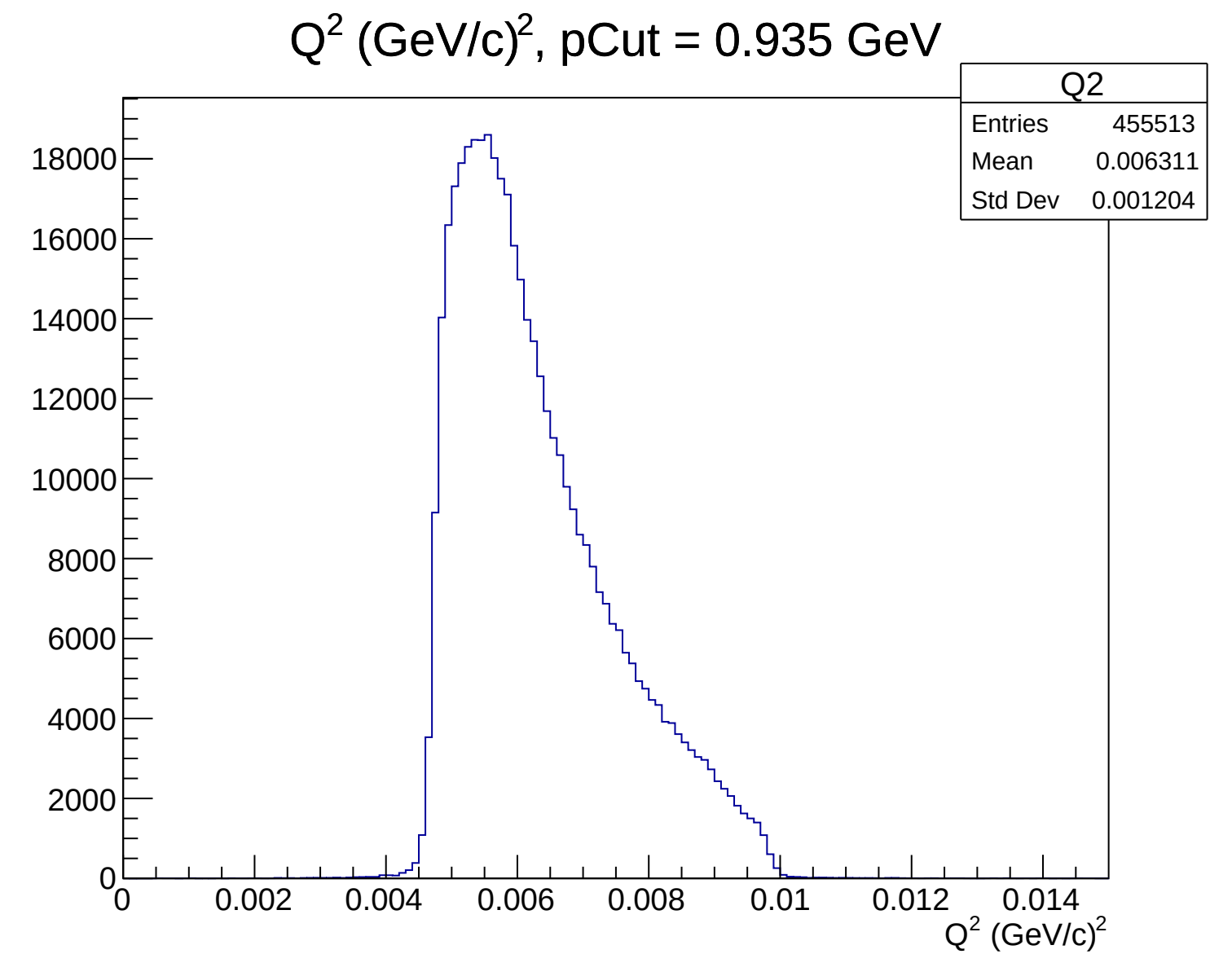

Sensitivity, pCut = 0.934 GeV
sens
Entries 463011
Mean 0.02218
Std Dev 0.003843
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

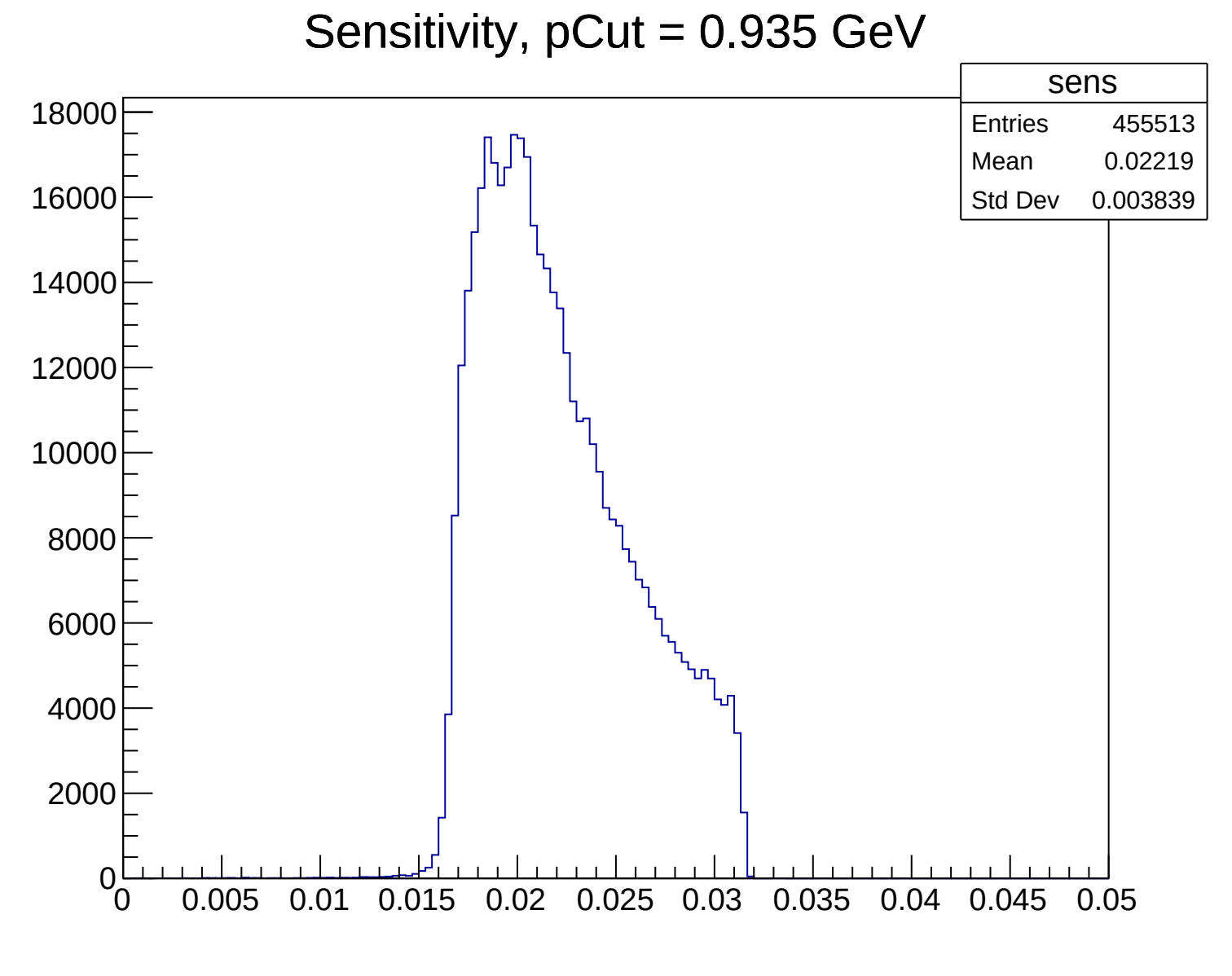

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9350 GeV
R.gold.p (GeV)

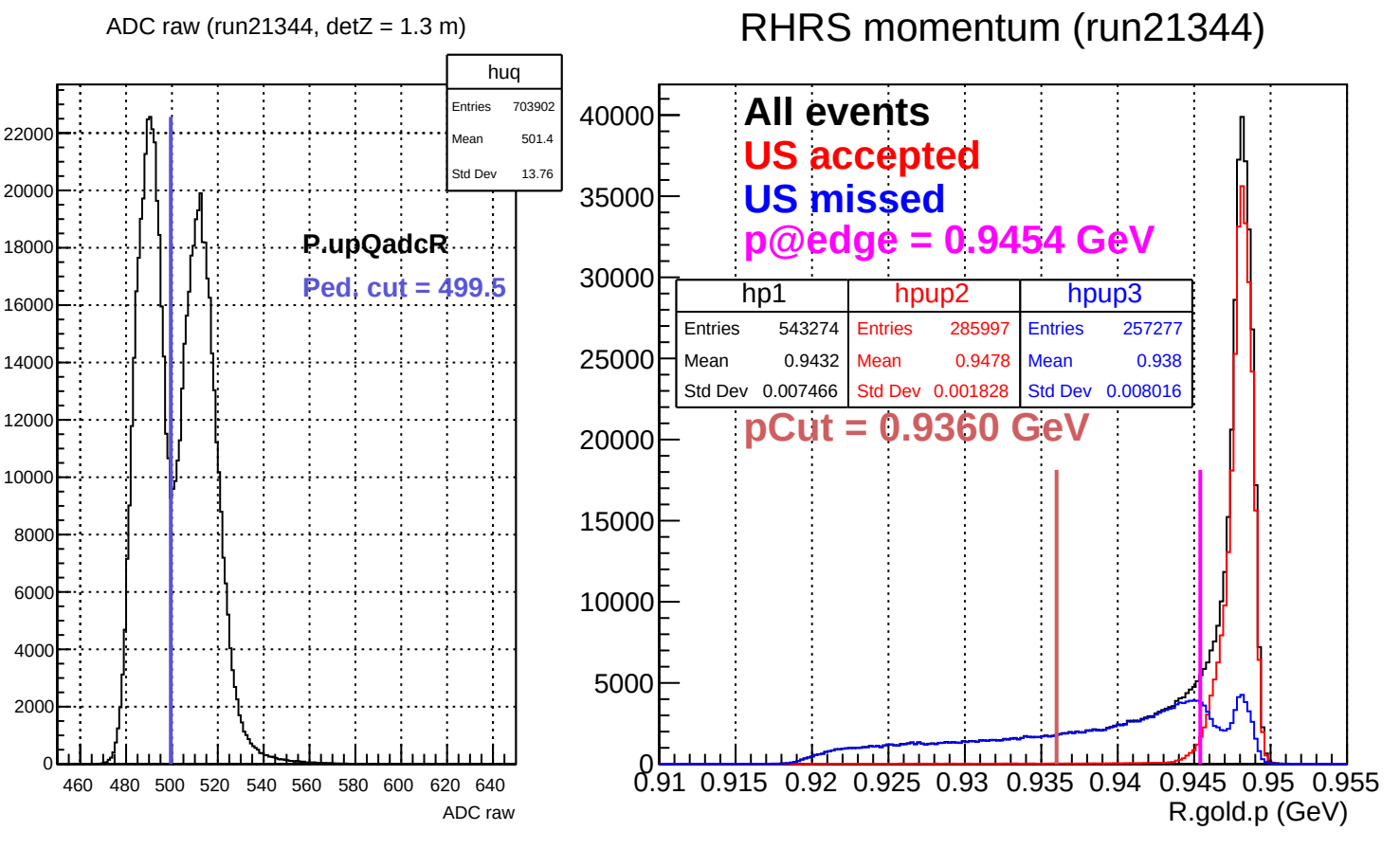

θlab (deg), pCut = 0.935 GeV
Theta
Entries 455513
Mean 4.783
Std Dev 0.446
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

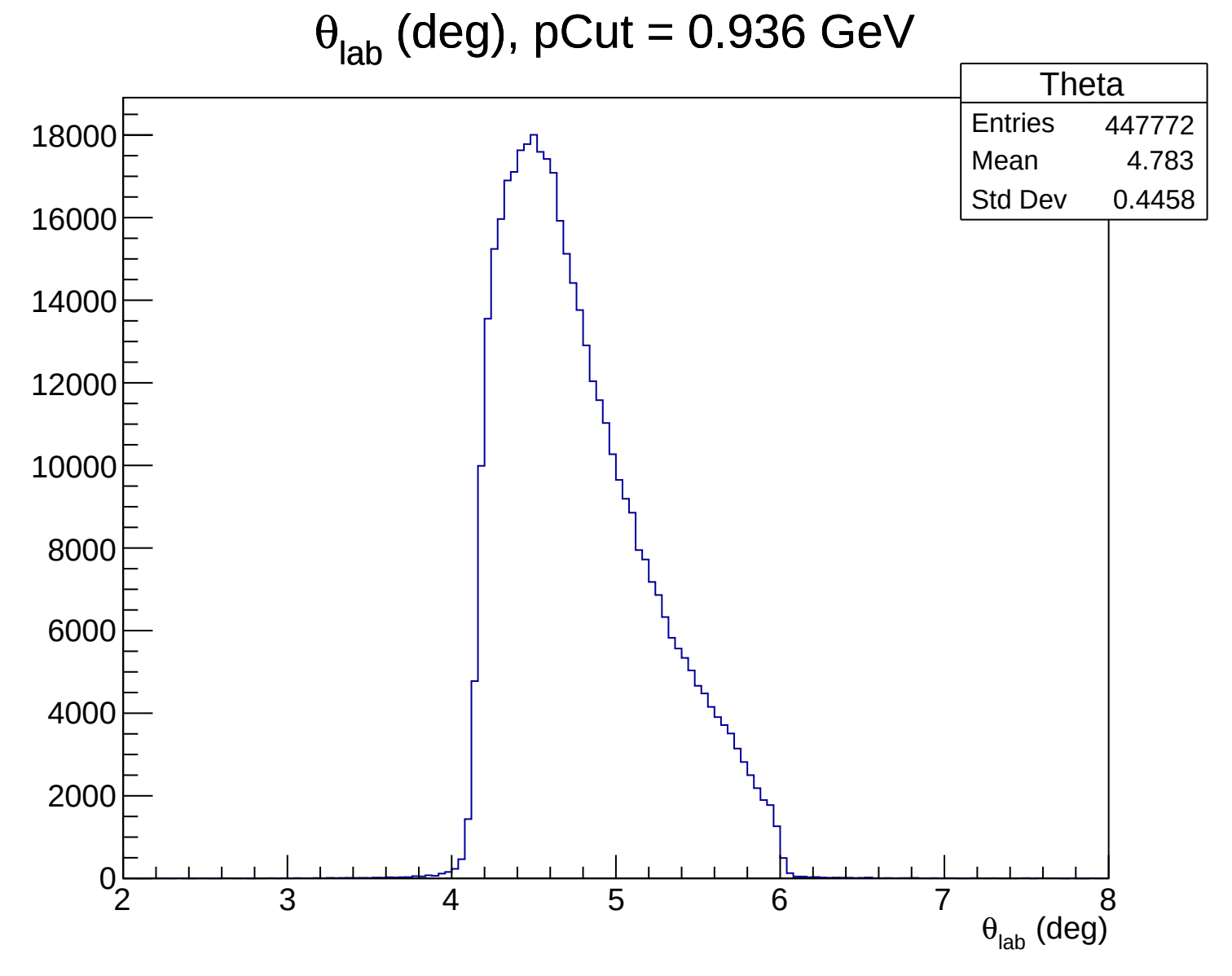

Asymmetry (ppm), pCut = 0.935 GeV
Asym
Entries 455513
Mean 0.5703
Std Dev 0.07713
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

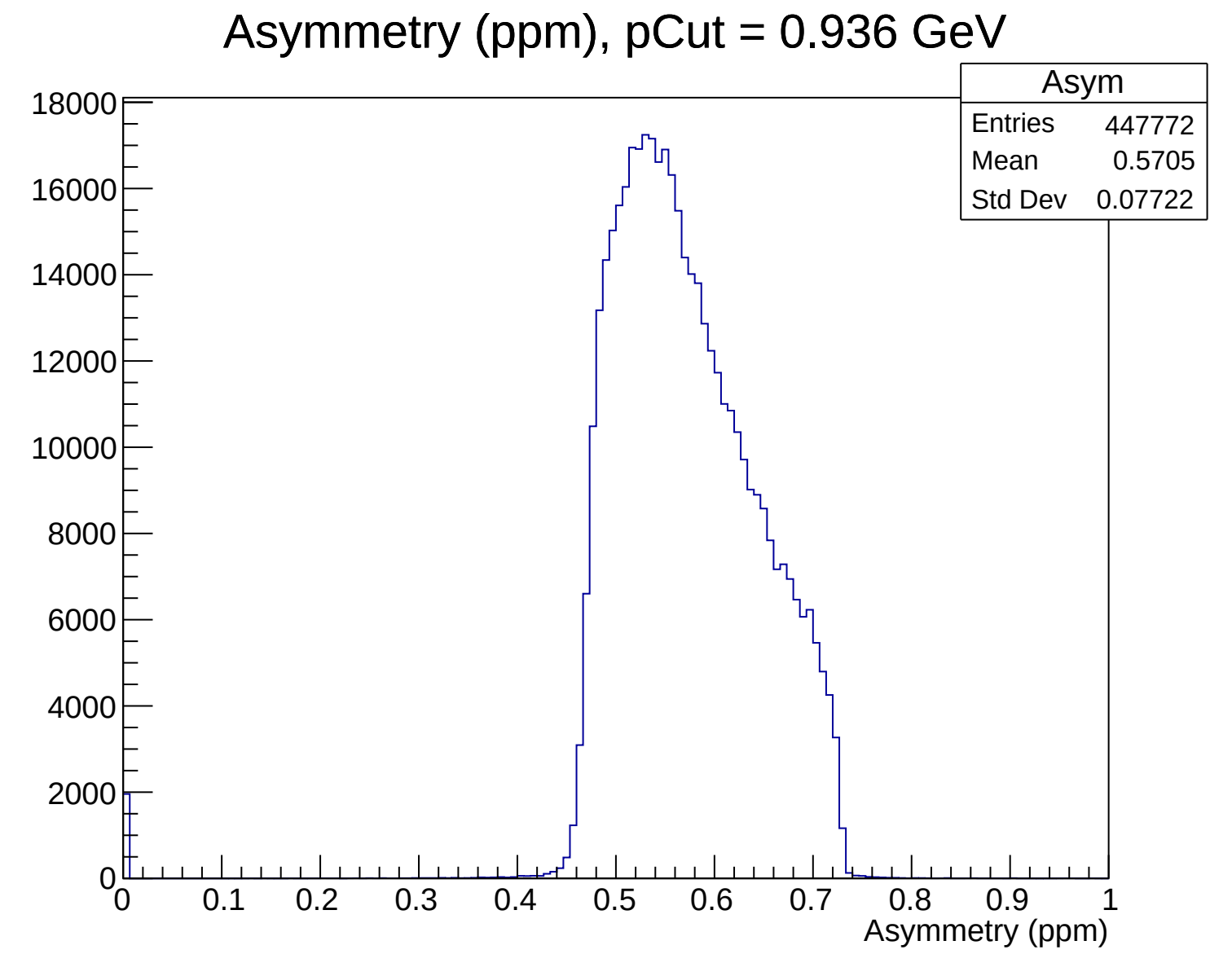

Stretched Asym. (ppm), pCut = 0.935 GeV
SAsym
Entries 455513
Mean 0.5574
Std Dev 0.07342
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

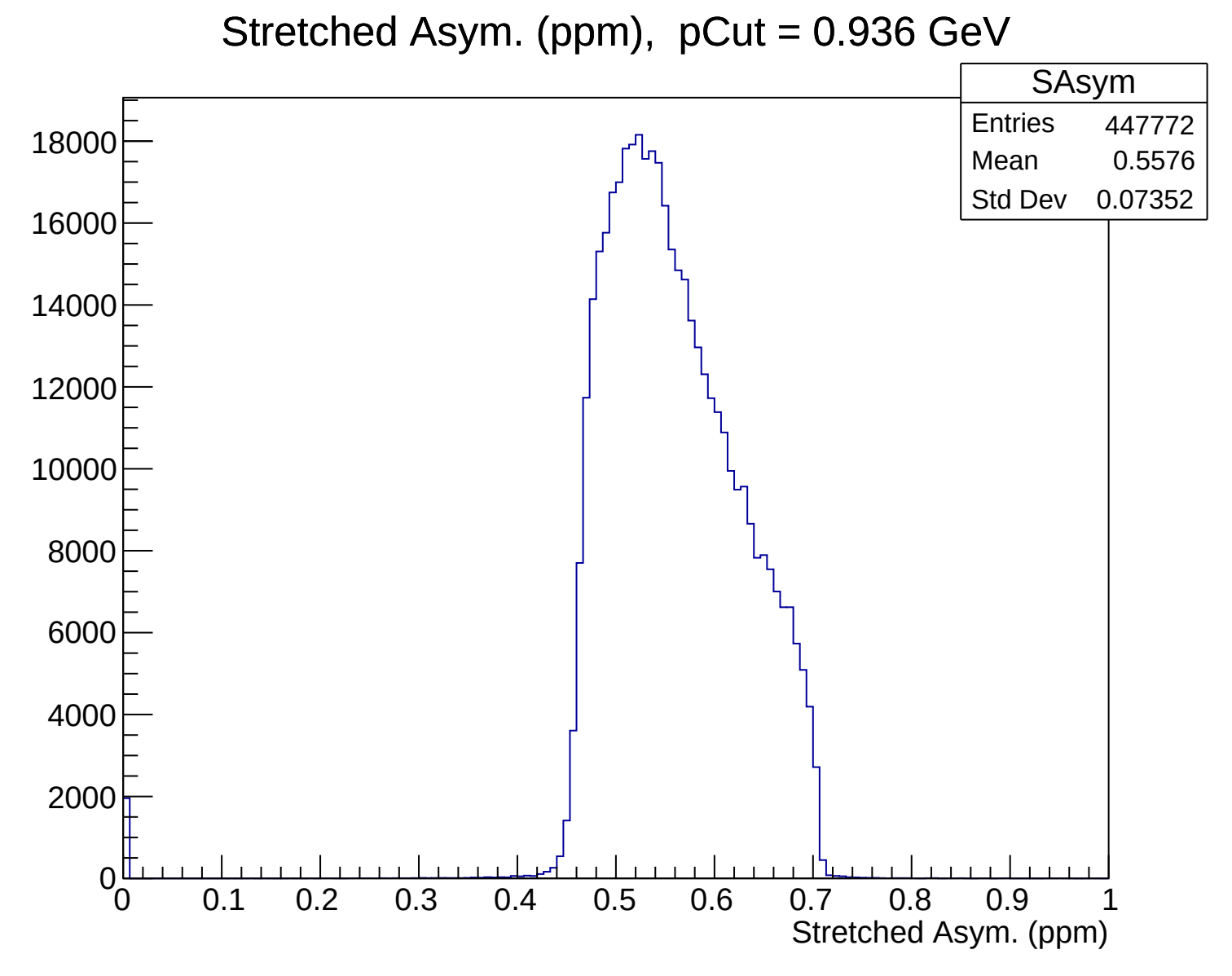

Q^2 (GeV/c)^2, pCut = 0.935 GeV
Q2
Entries 455513
Mean 0.006311
Std Dev 0.001204
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

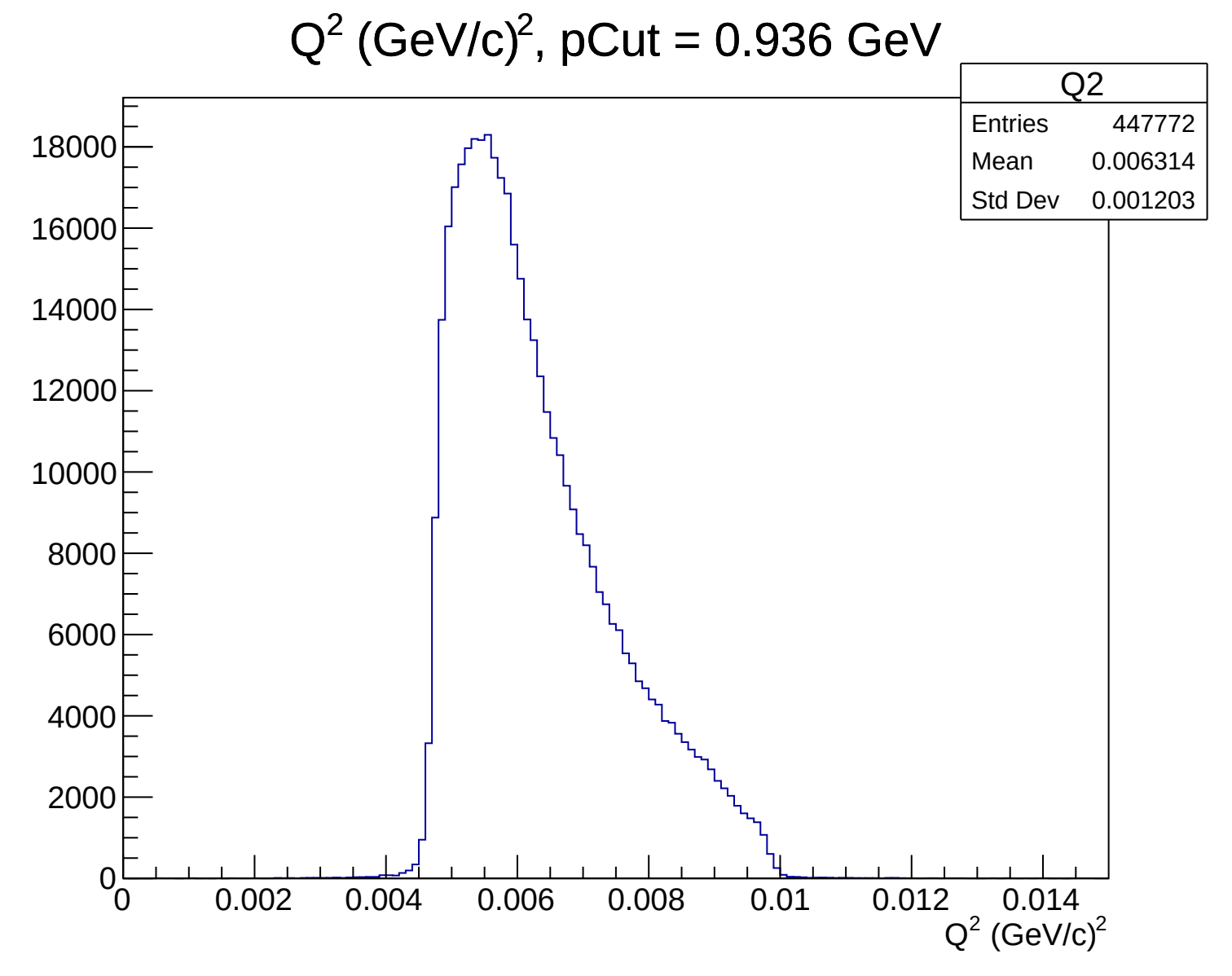

Sensitivity, pCut = 0.935 GeV
sens
Entries 455513
Mean 0.02219
Std Dev 0.003839
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

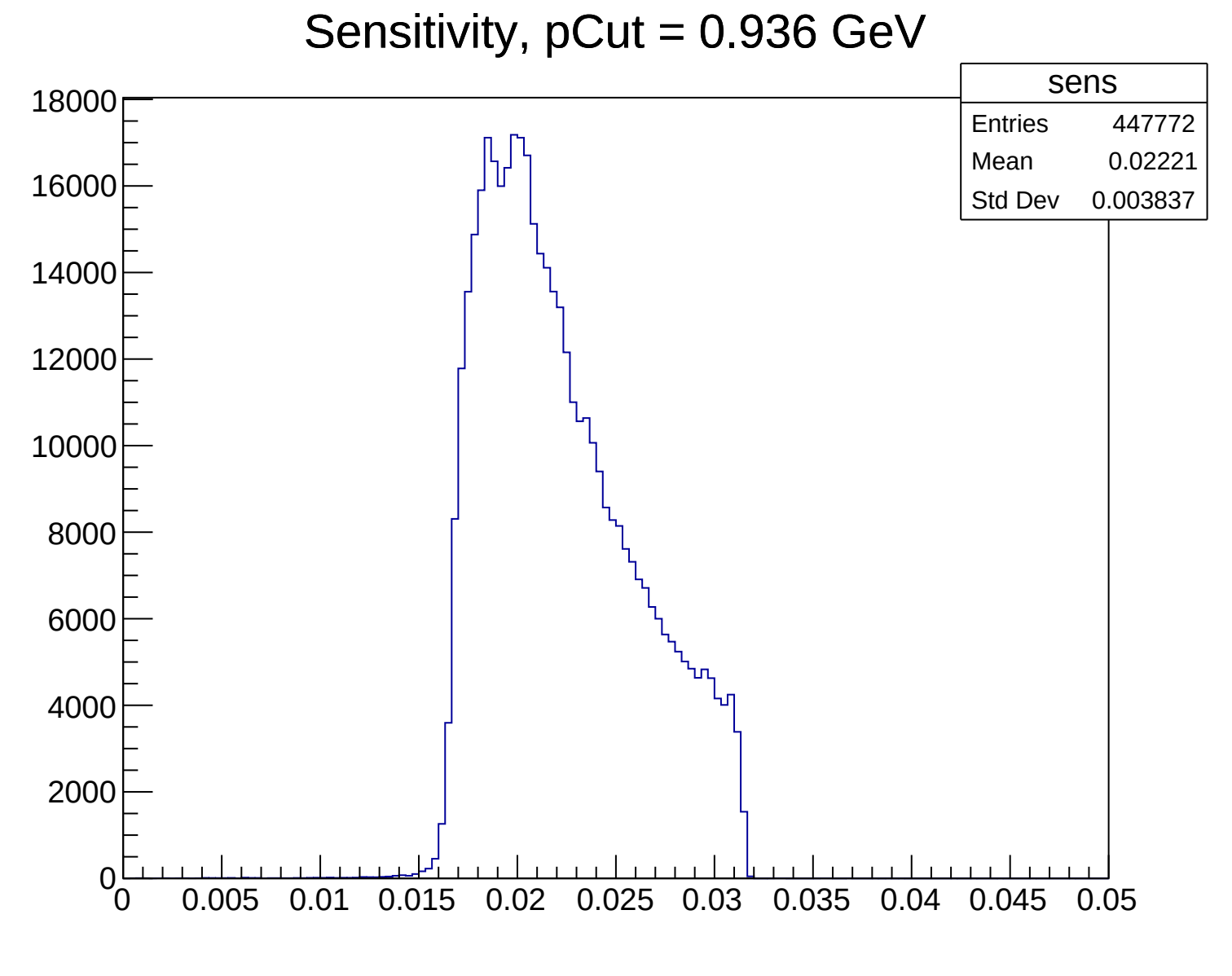

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9360 GeV
R.gold.p (GeV)

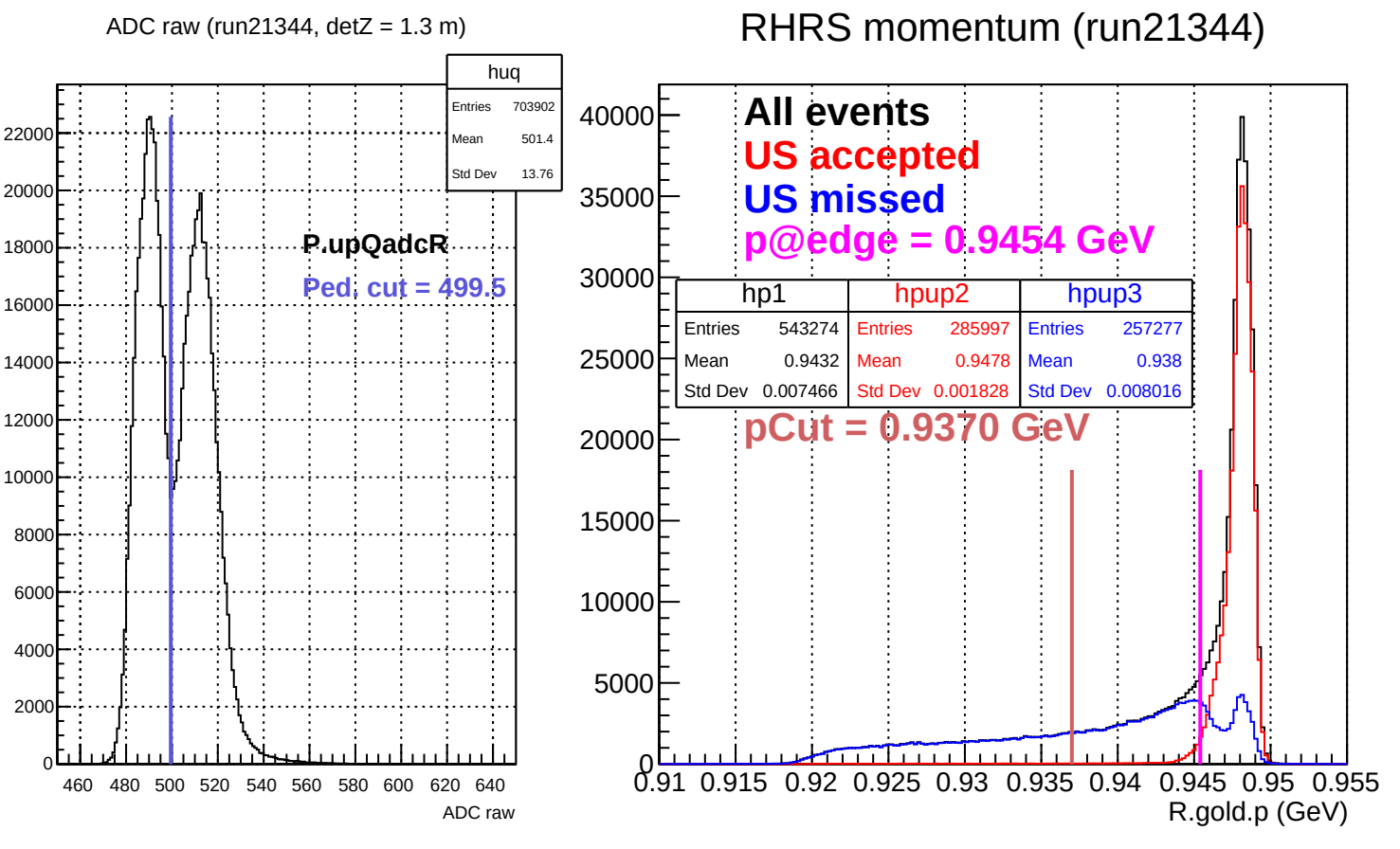

θlab (deg), pCut = 0.936 GeV
Theta
Entries 447772
Mean 4.783
Std Dev 0.4458
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

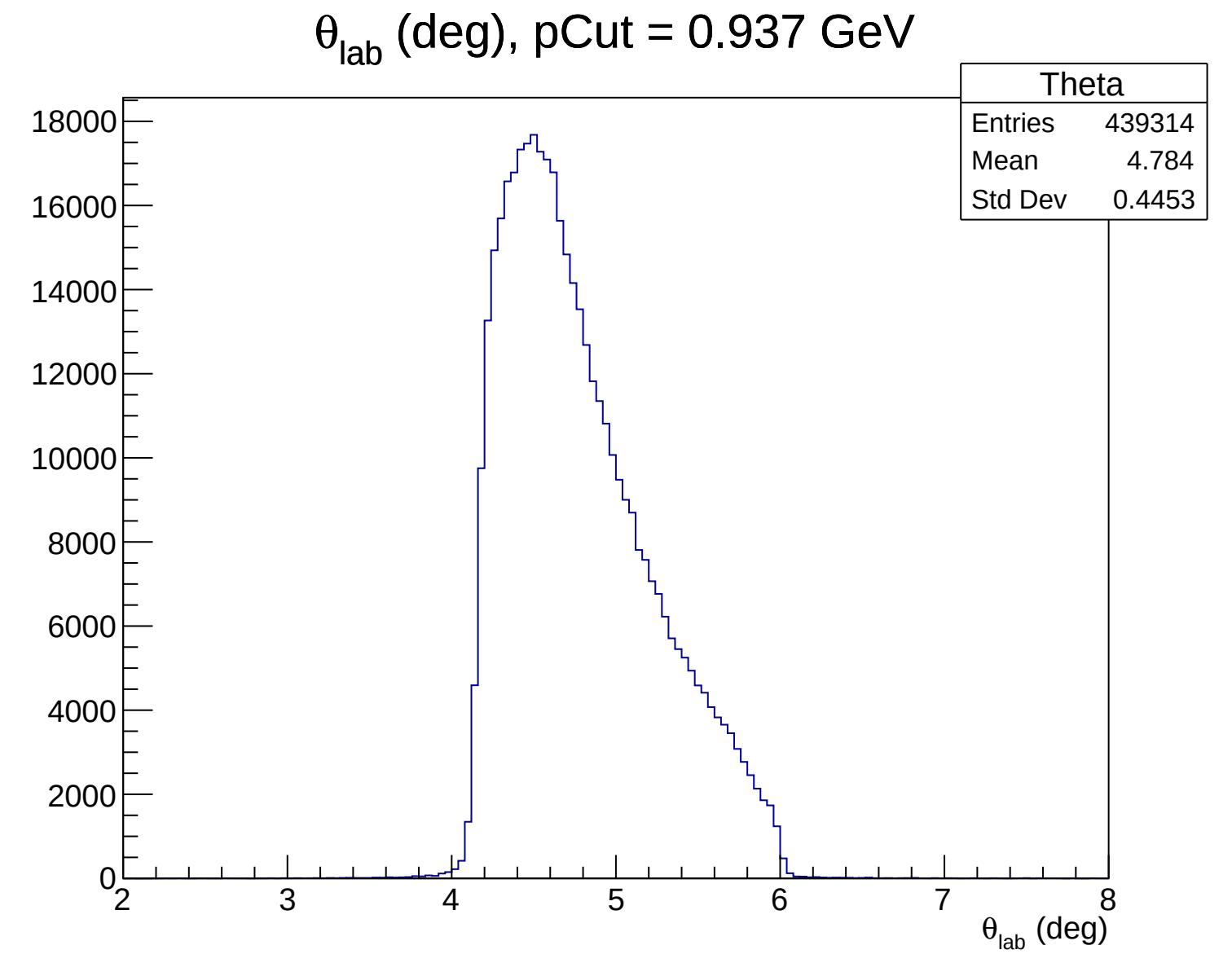

Asymmetry (ppm), pCut = 0.936 GeV
Asym
Entries 447772
Mean 0.5705
Std Dev 0.07722
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

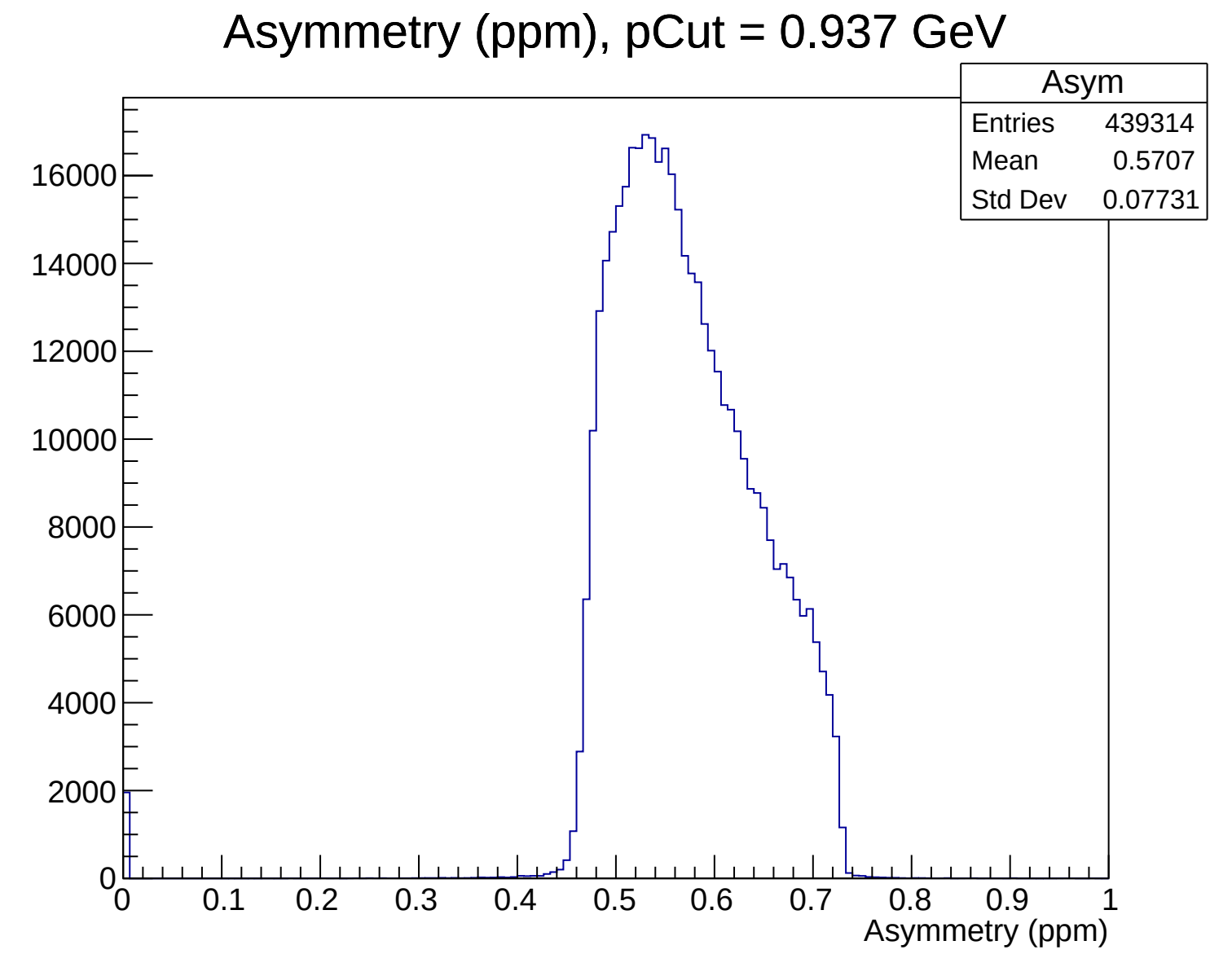

Stretched Asym. (ppm), pCut = 0.936 GeV
SAsym
Entries 447772
Mean 0.5576
Std Dev 0.07352
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

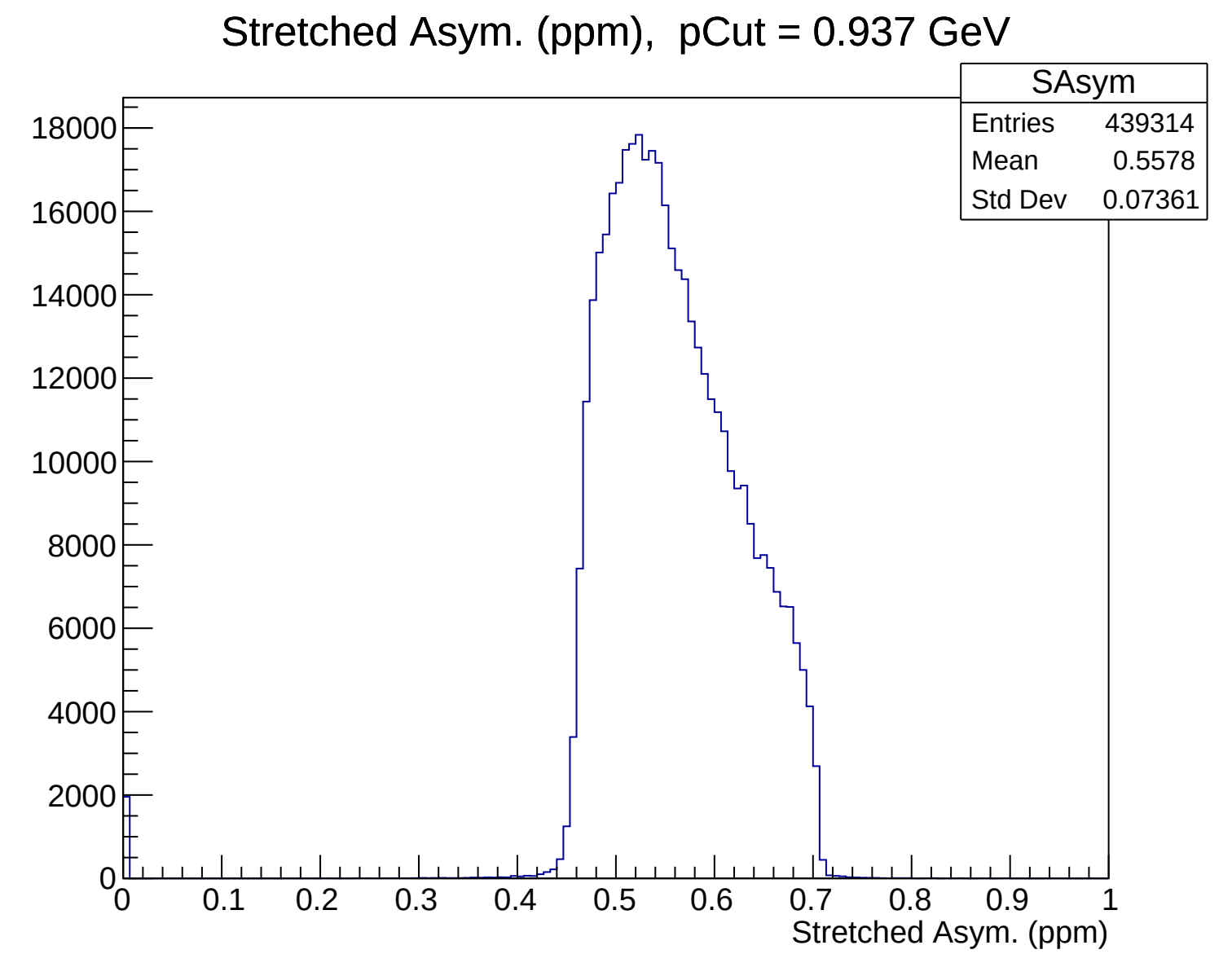

Q^2 (GeV/c)^2, pCut = 0.936 GeV
Q2
Entries 447772
Mean 0.006314
Std Dev 0.001203
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

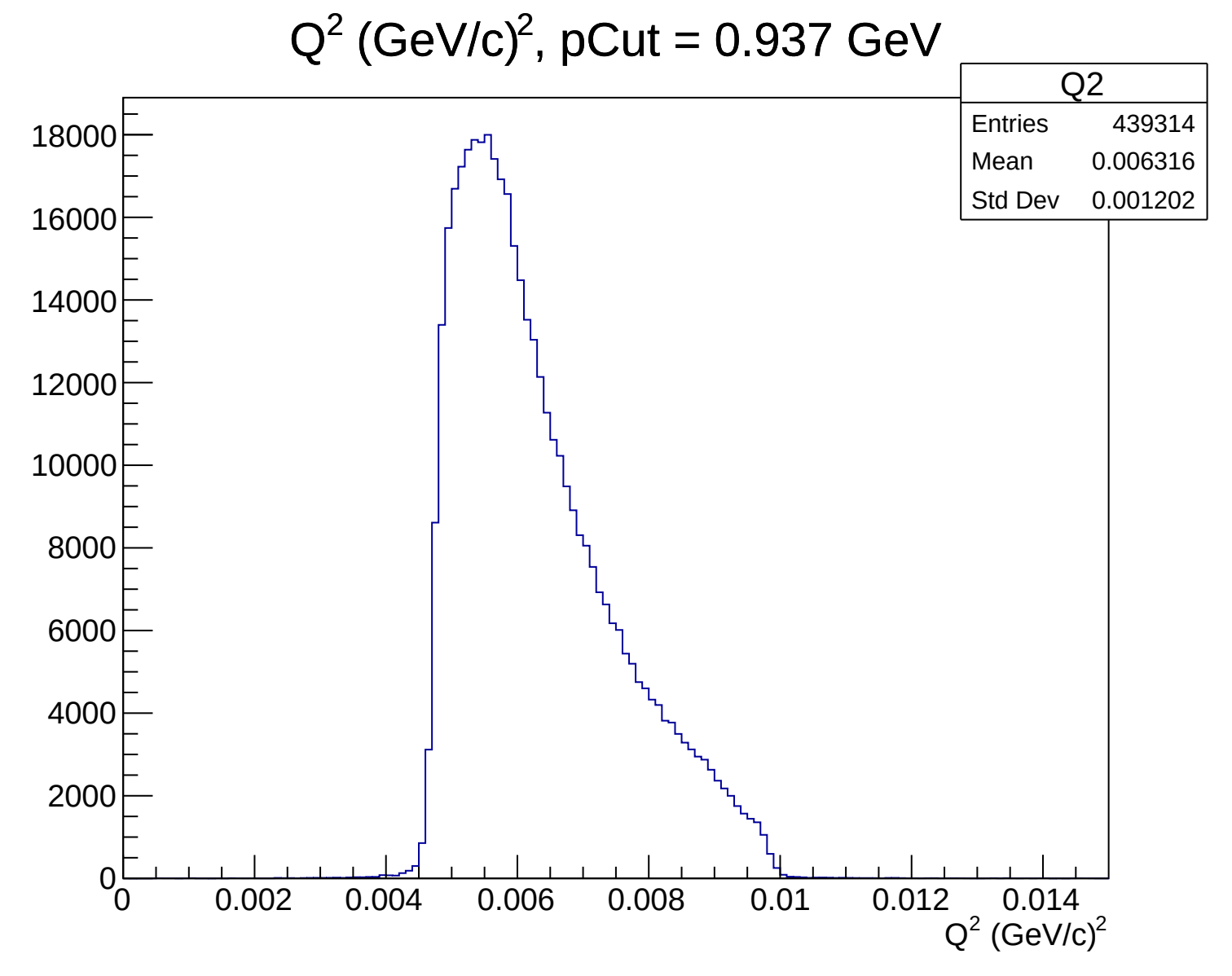

Sensitivity, pCut = 0.936 GeV
sens
Entries 447772
Mean 0.02221
Std Dev 0.003837
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

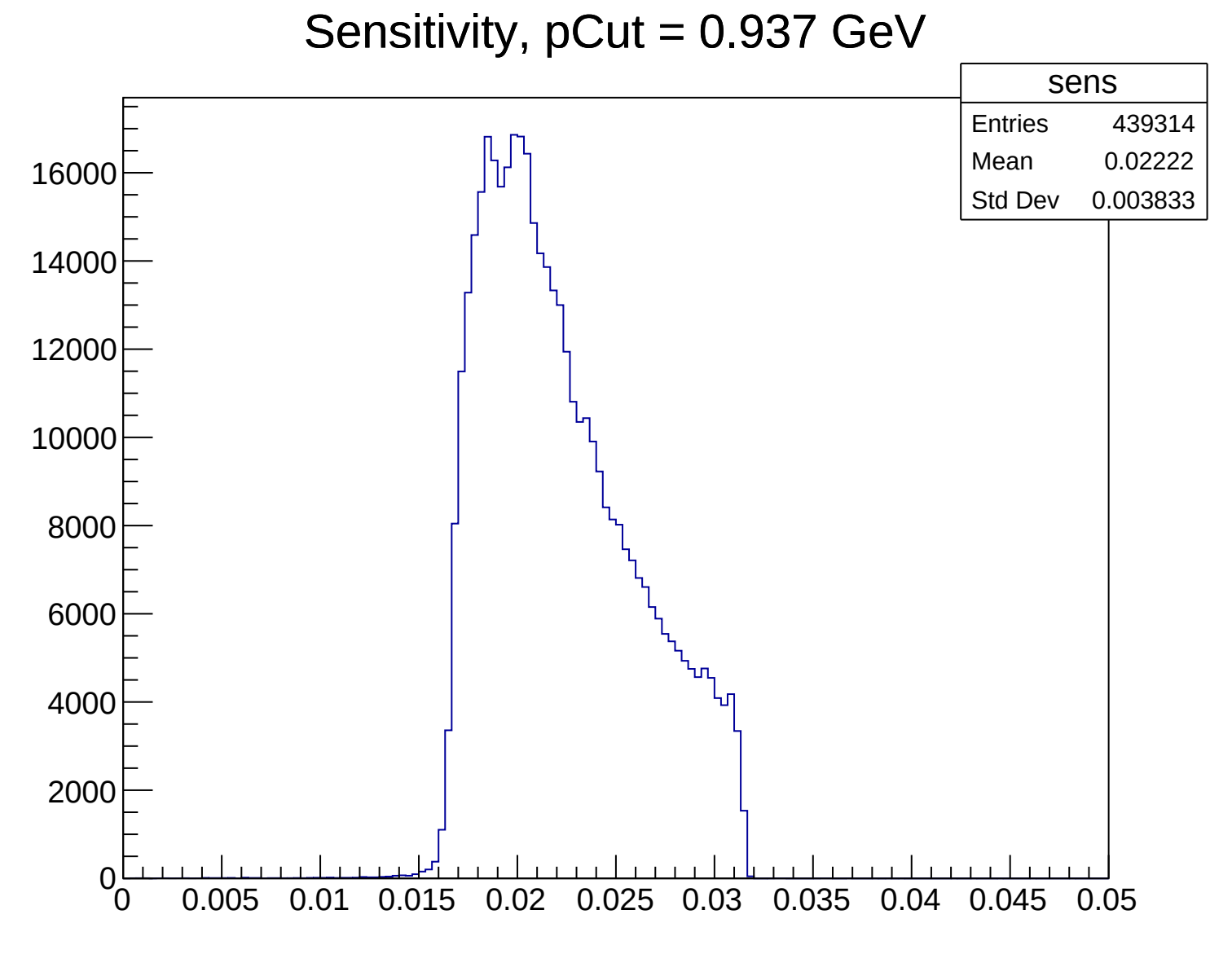

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9370 GeV
R.gold.p (GeV)

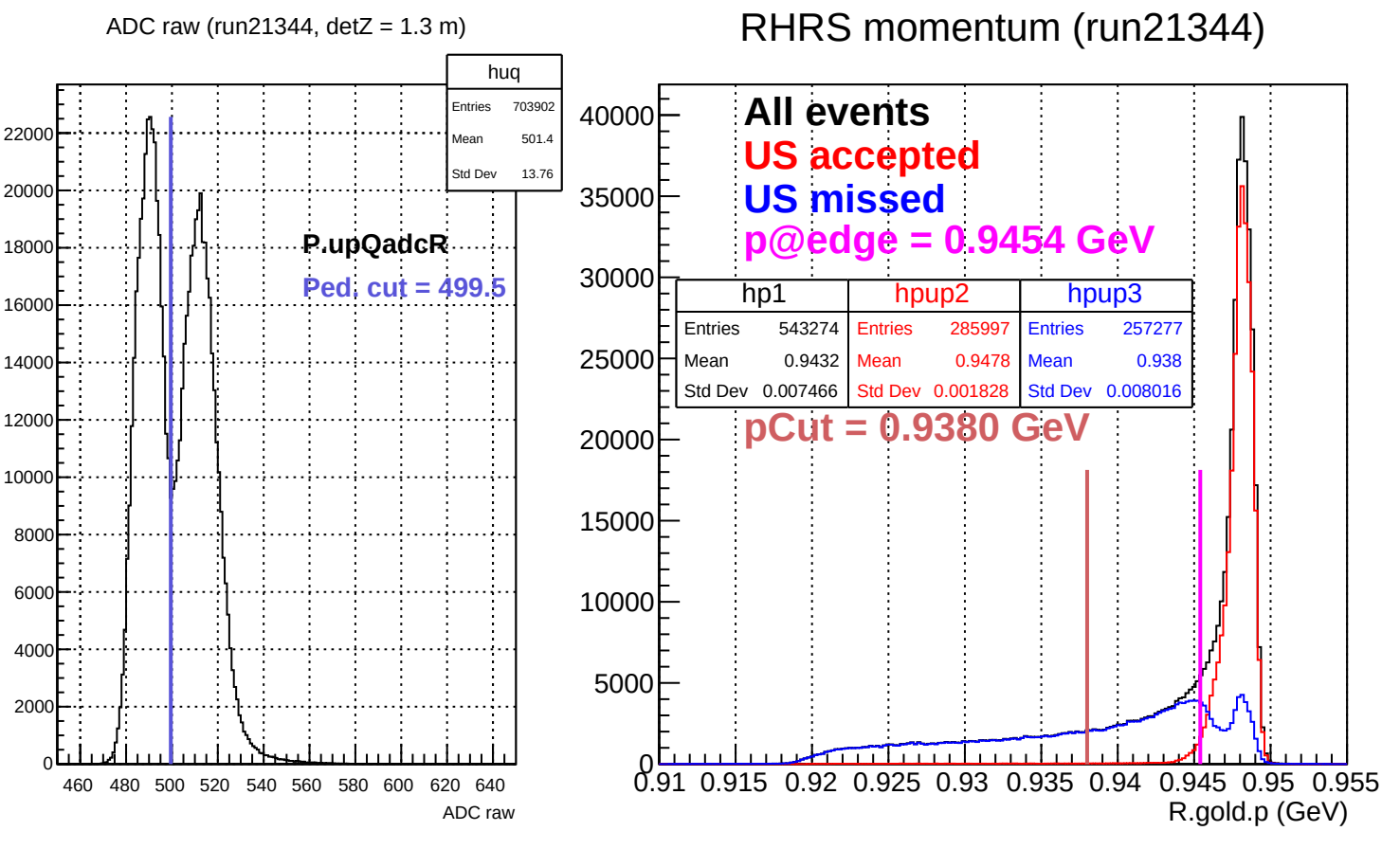

θlab (deg), pCut = 0.937 GeV
Theta
Entries 439314
Mean 4.784
Std Dev 0.4453
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

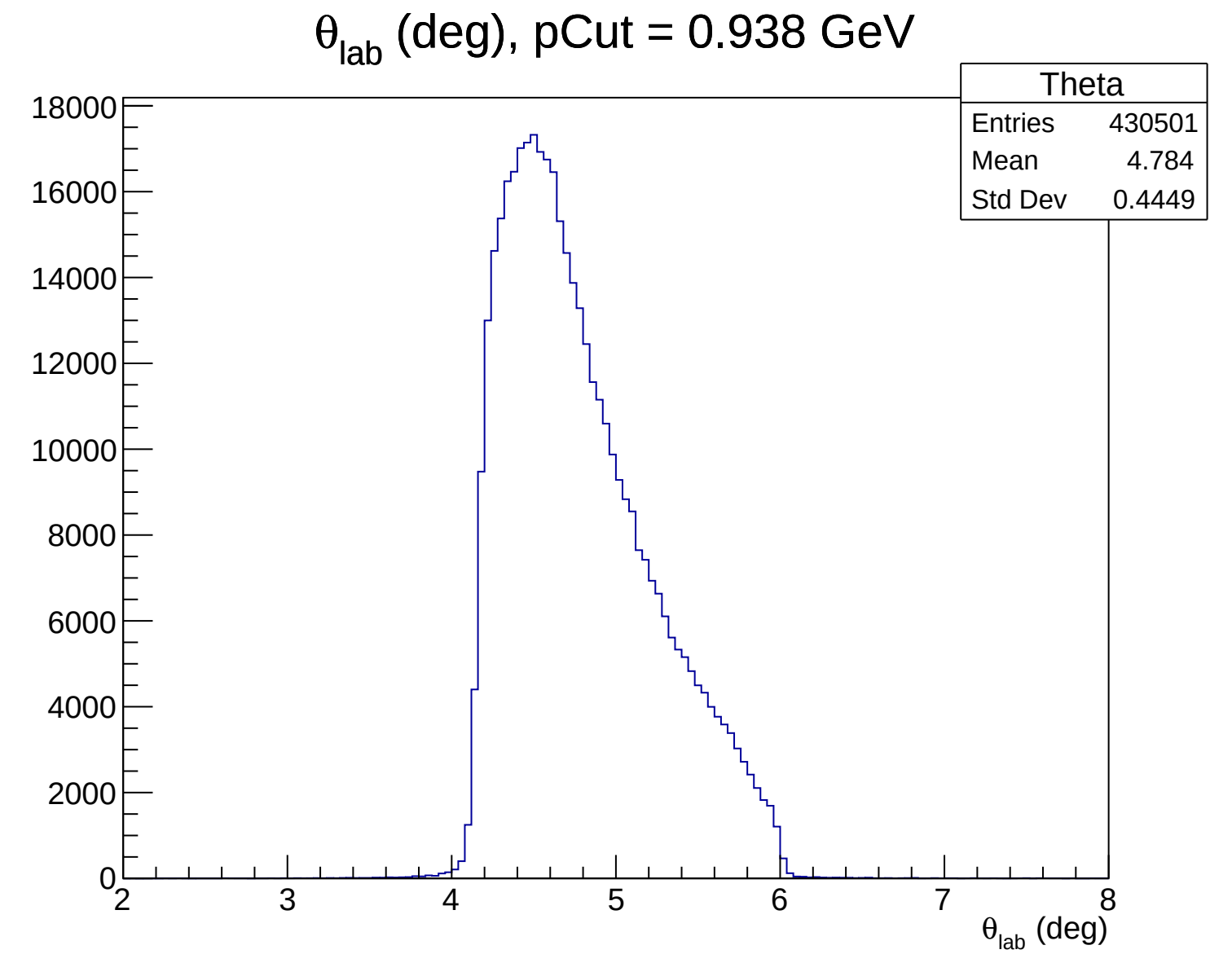

Asymmetry (ppm), pCut = 0.937 GeV
Asym
Entries 439314
Mean 0.5707
Std Dev 0.07731
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

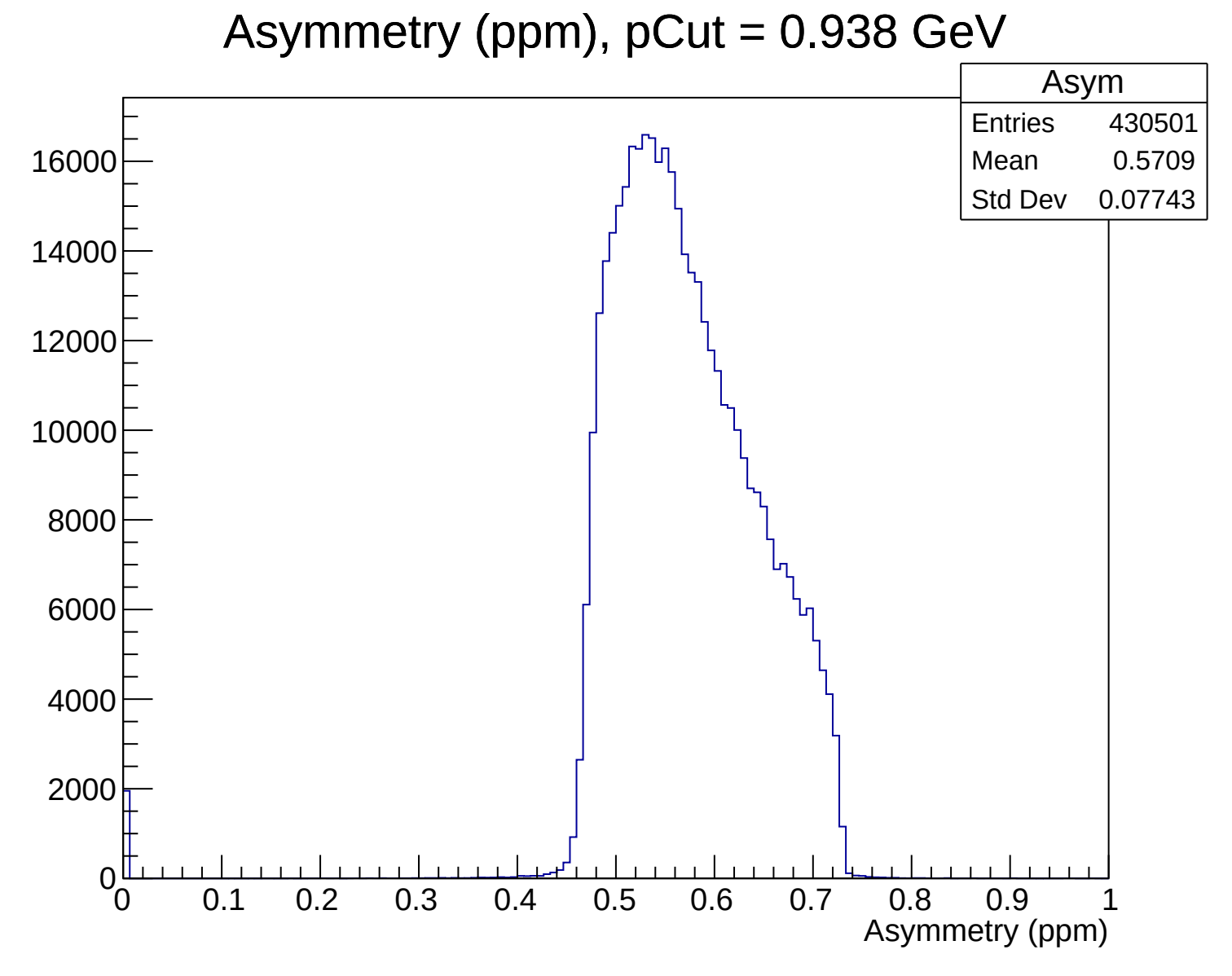

Stretched Asym. (ppm), pCut = 0.937 GeV
SAsym
Entries 439314
Mean 0.5578
Std Dev 0.07361
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

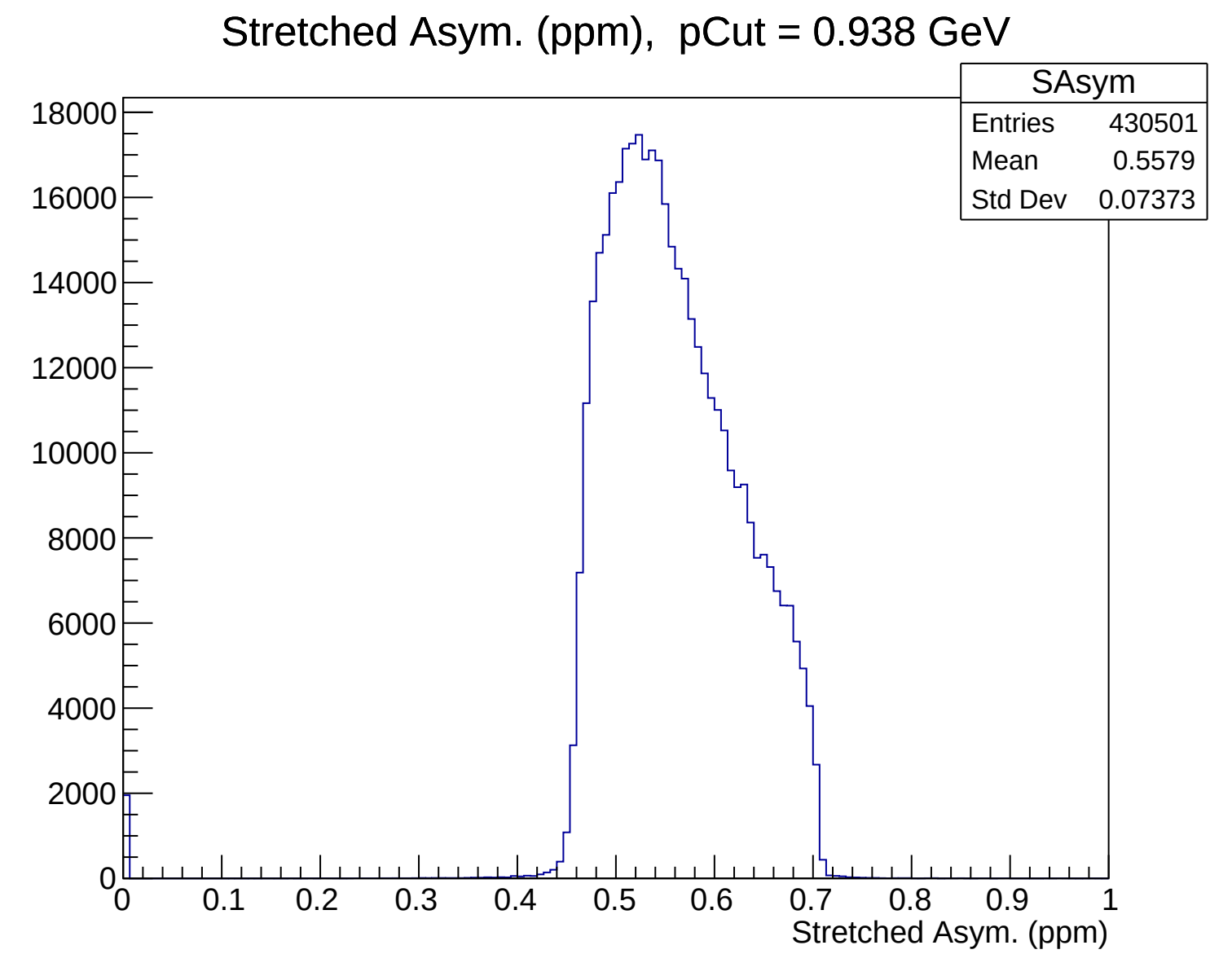

Q^2 (GeV/c)^2, pCut = 0.937 GeV
Q2
Entries 439314
Mean 0.006316
Std Dev 0.001202
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

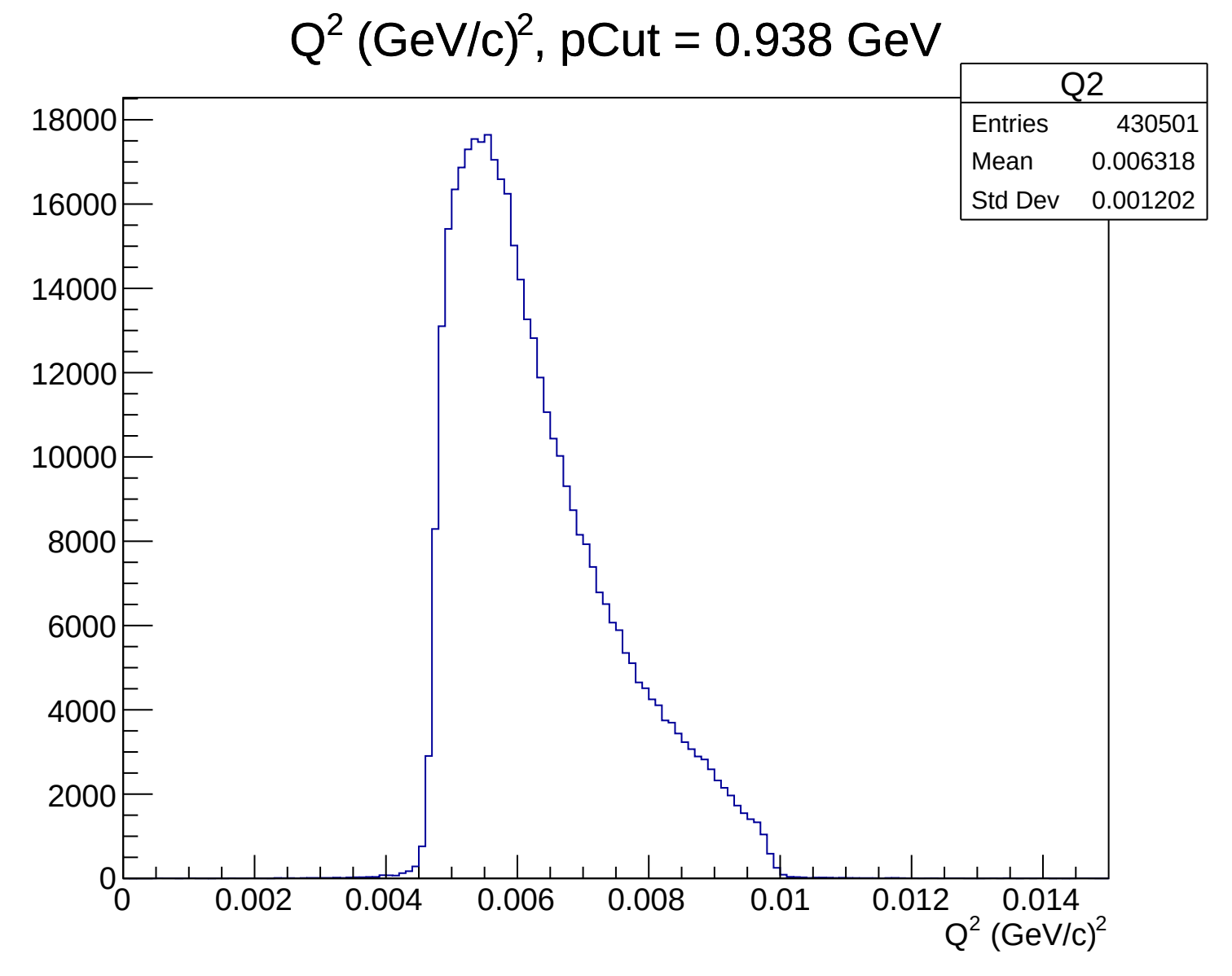

Sensitivity, pCut = 0.937 GeV
sens
Entries 439314
Mean 0.02222
Std Dev 0.003833
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

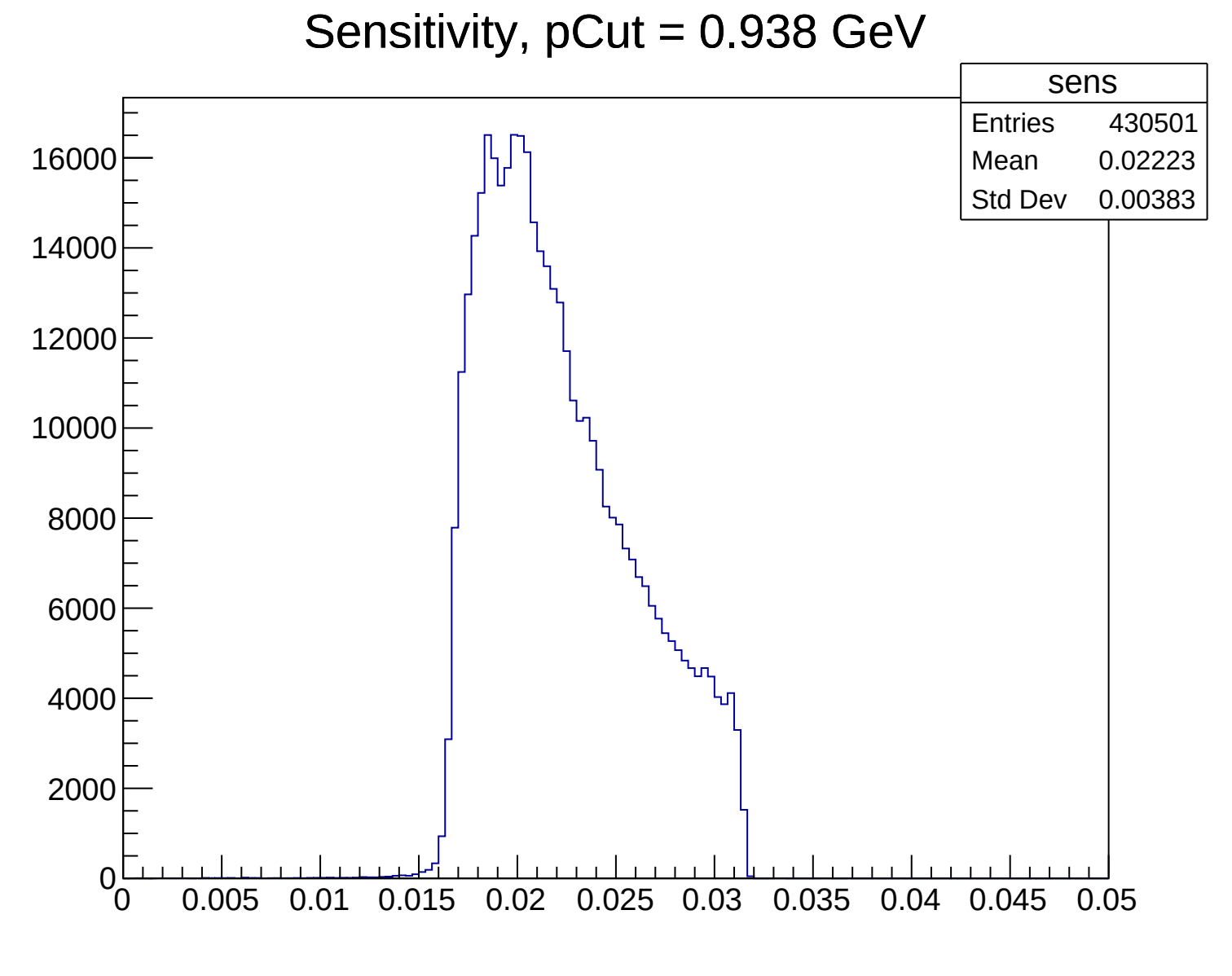

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9380 GeV
R.gold.p (GeV)

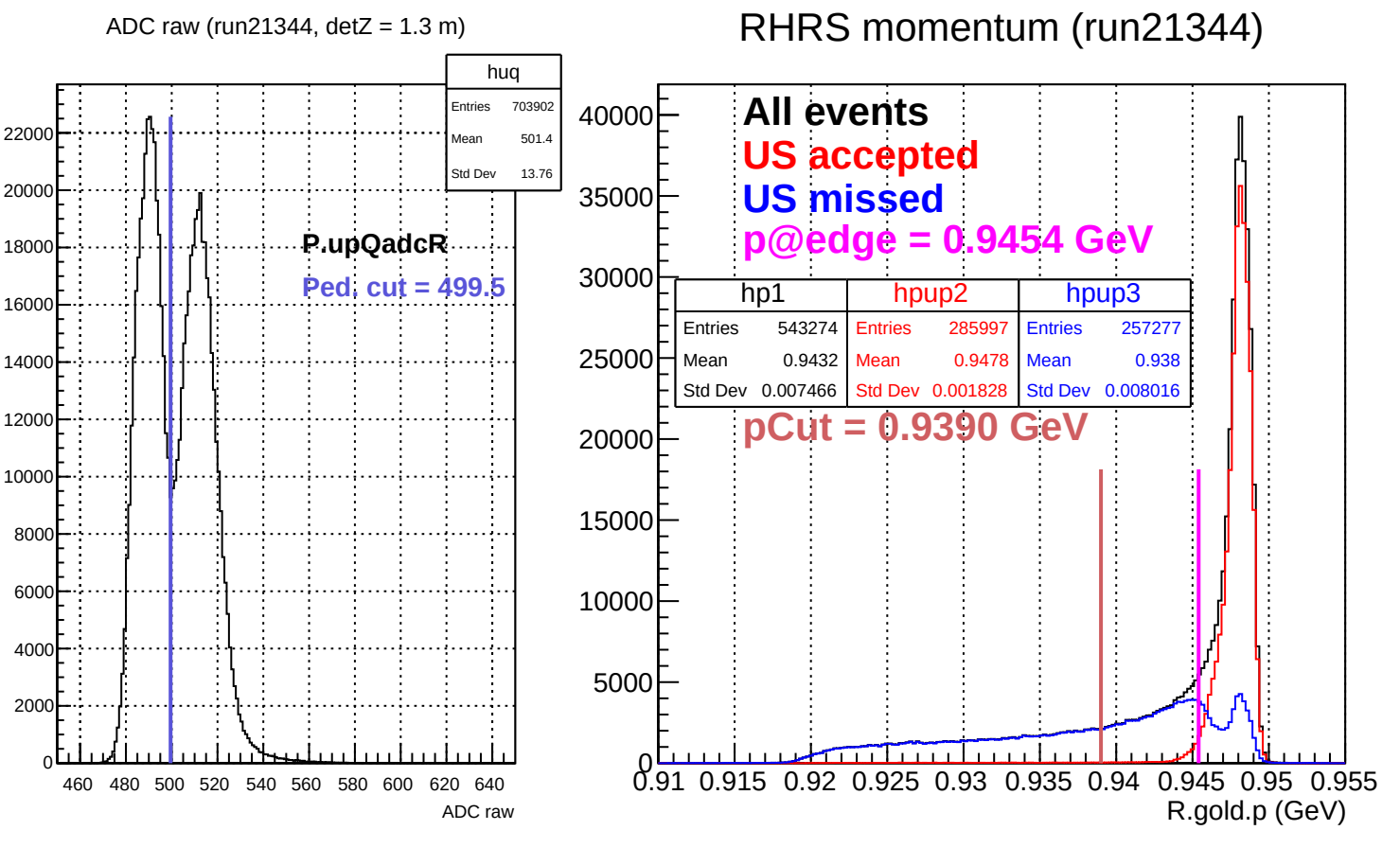

θlab (deg), pCut = 0.938 GeV
Theta
Entries 430501
Mean 4.784
Std Dev 0.4449
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

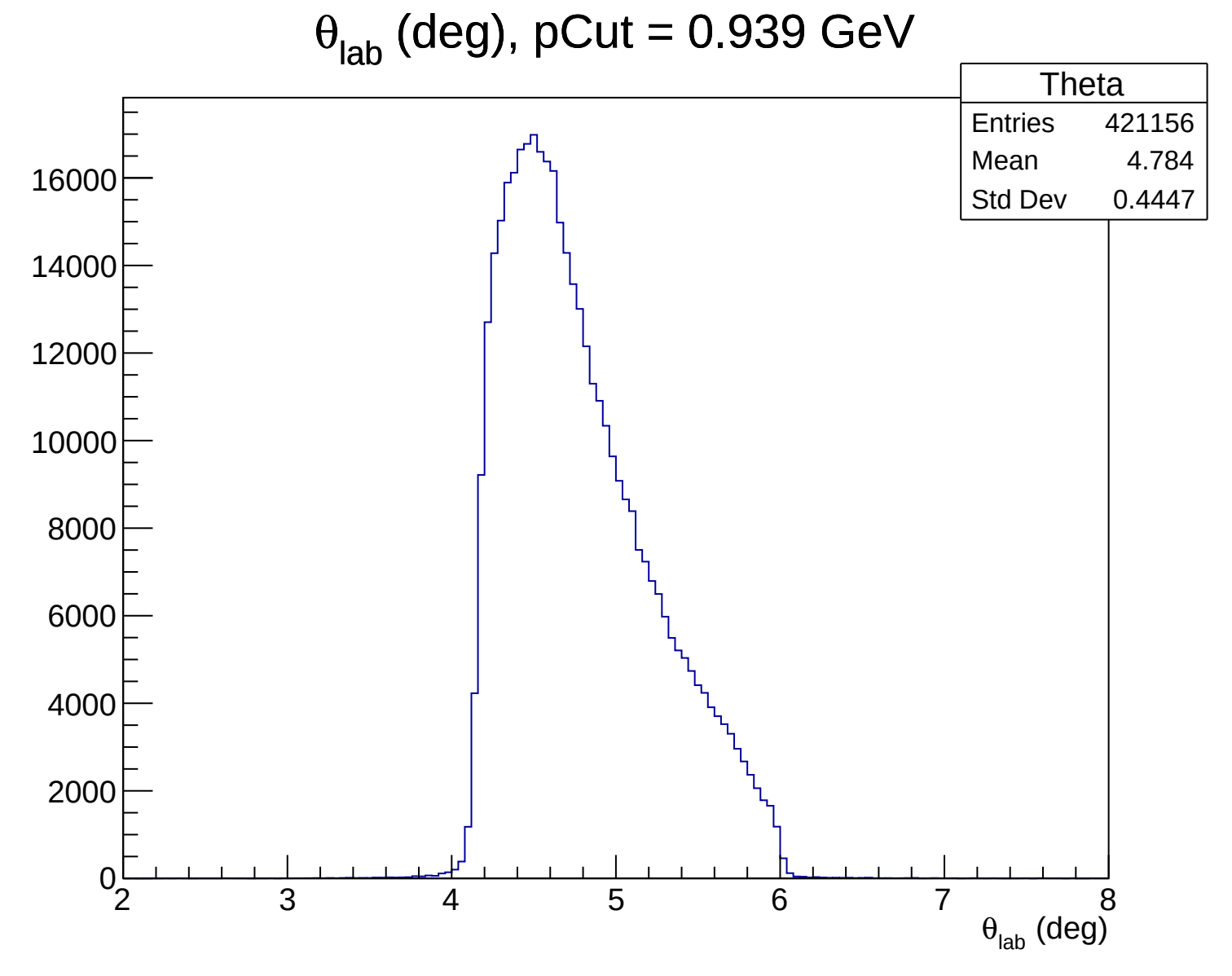

Asymmetry (ppm), pCut = 0.938 GeV
Asym
Entries 430501
Mean 0.5709
Std Dev 0.07743
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

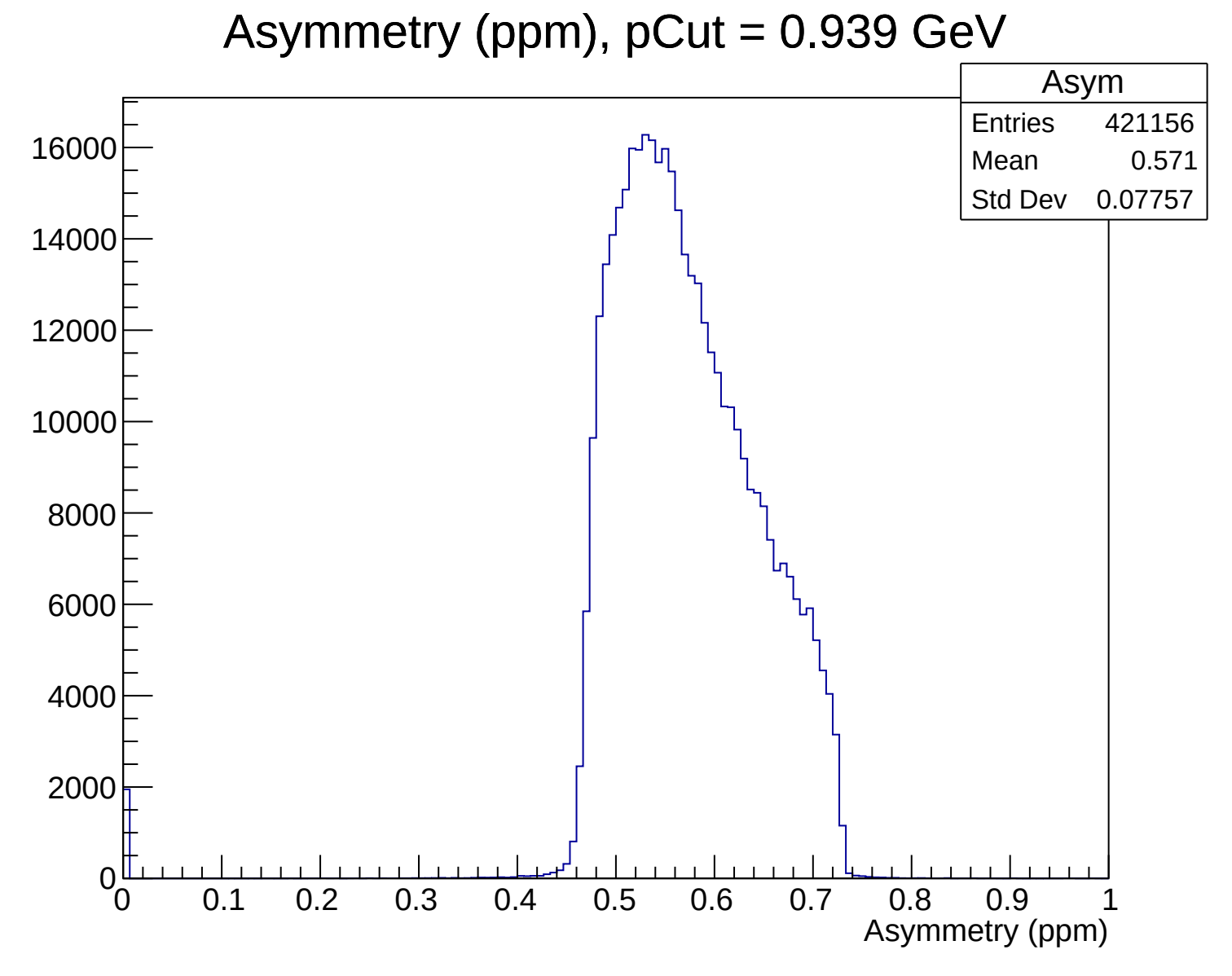

Stretched Asym. (ppm), pCut = 0.938 GeV
SAsym
Entries 430501
Mean 0.5579
Std Dev 0.07373
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

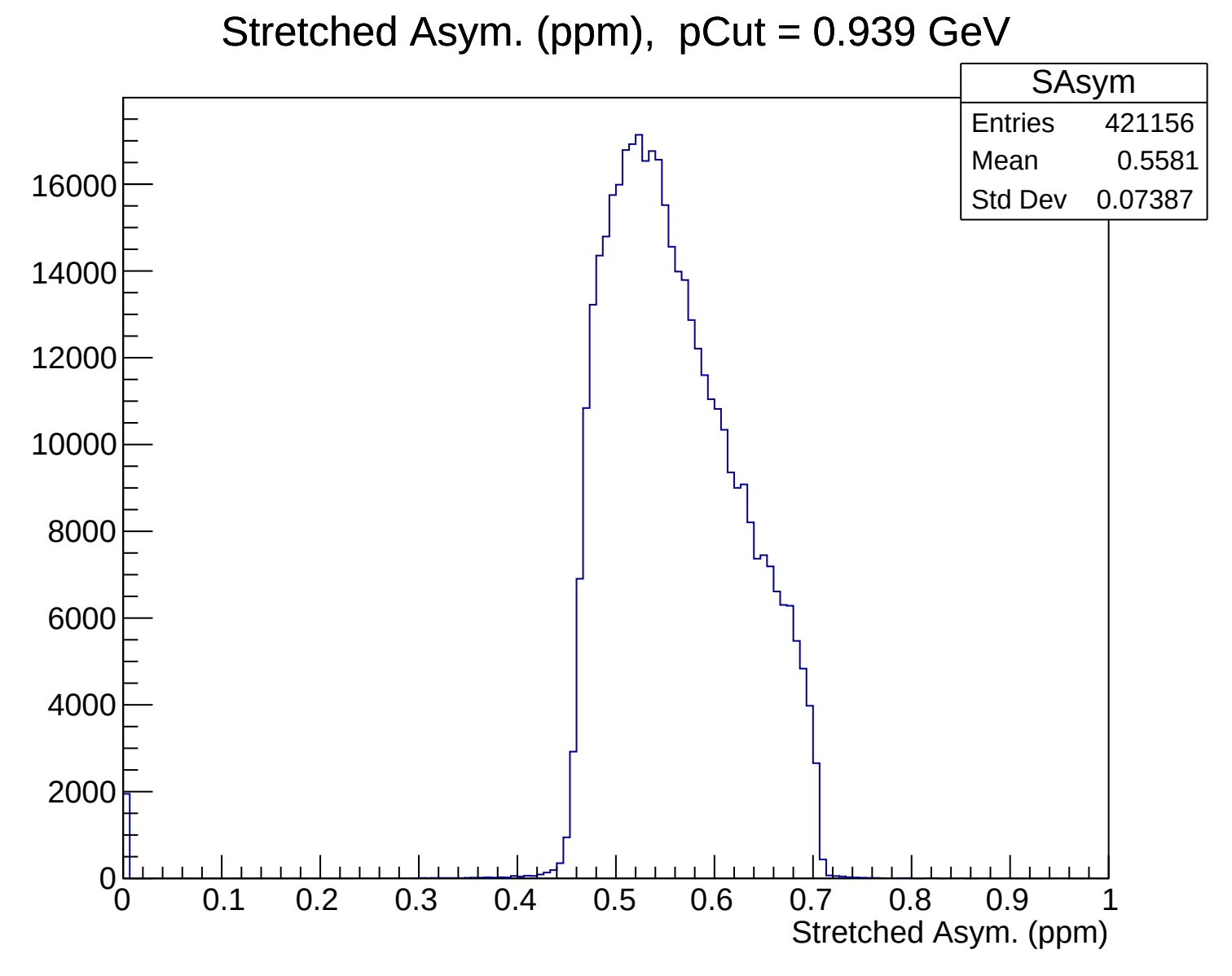

Q^2 (GeV/c)^2, pCut = 0.938 GeV
Q2
Entries 430501
Mean 0.006318
Std Dev 0.001202
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

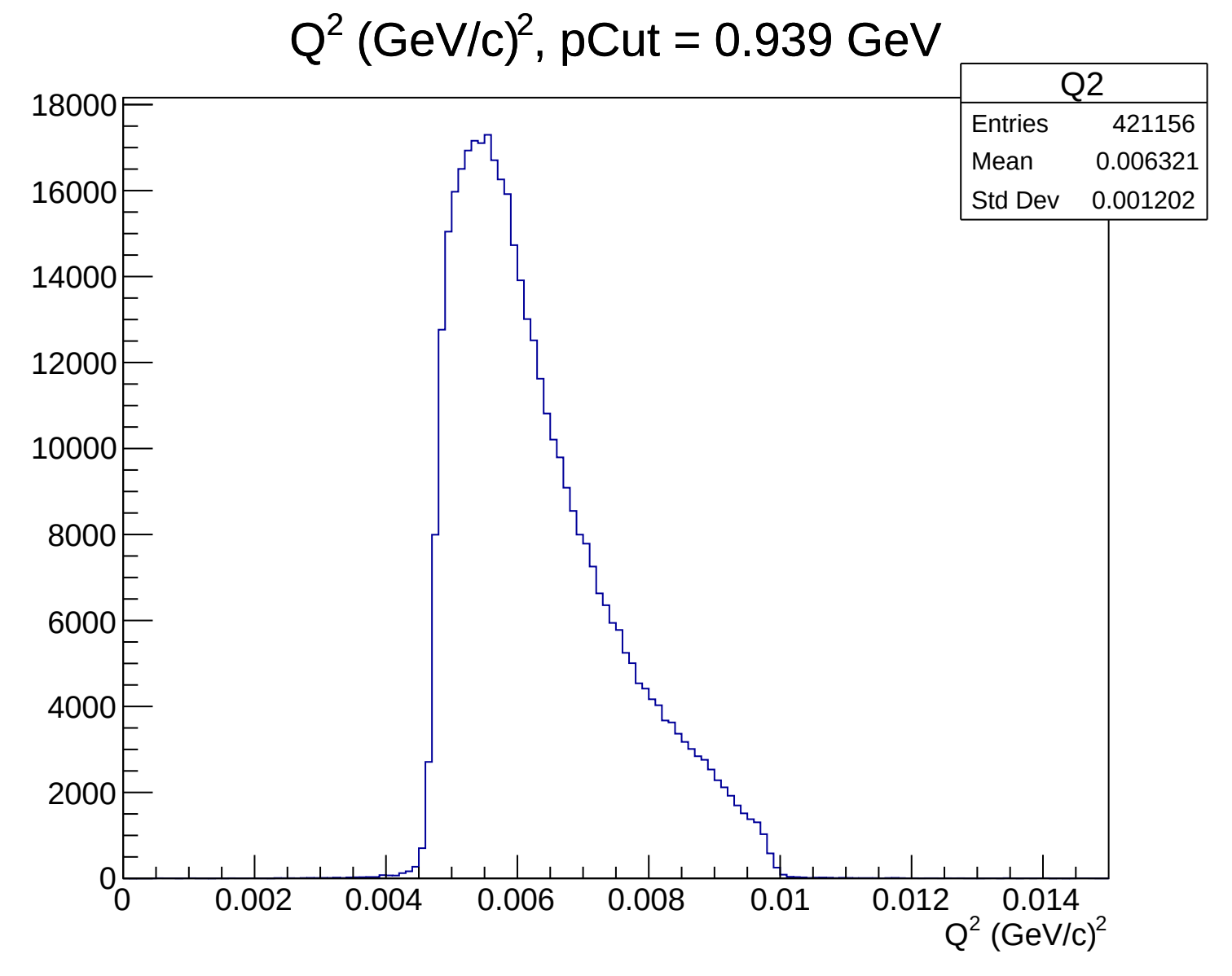

Sensitivity, pCut = 0.938 GeV
sens
Entries 430501
Mean 0.02223
Std Dev 0.00383
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

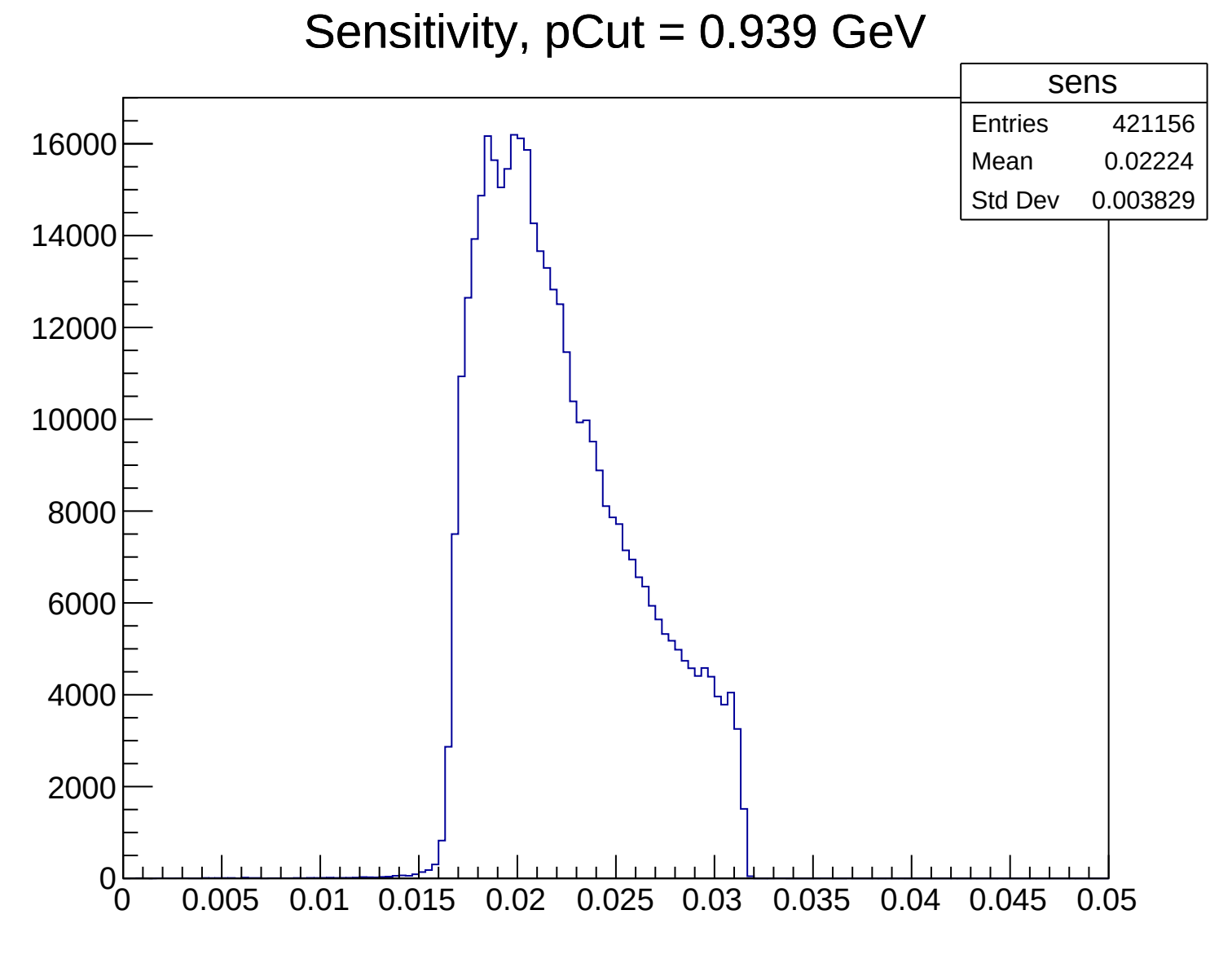

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9390 GeV
R.gold.p (GeV)

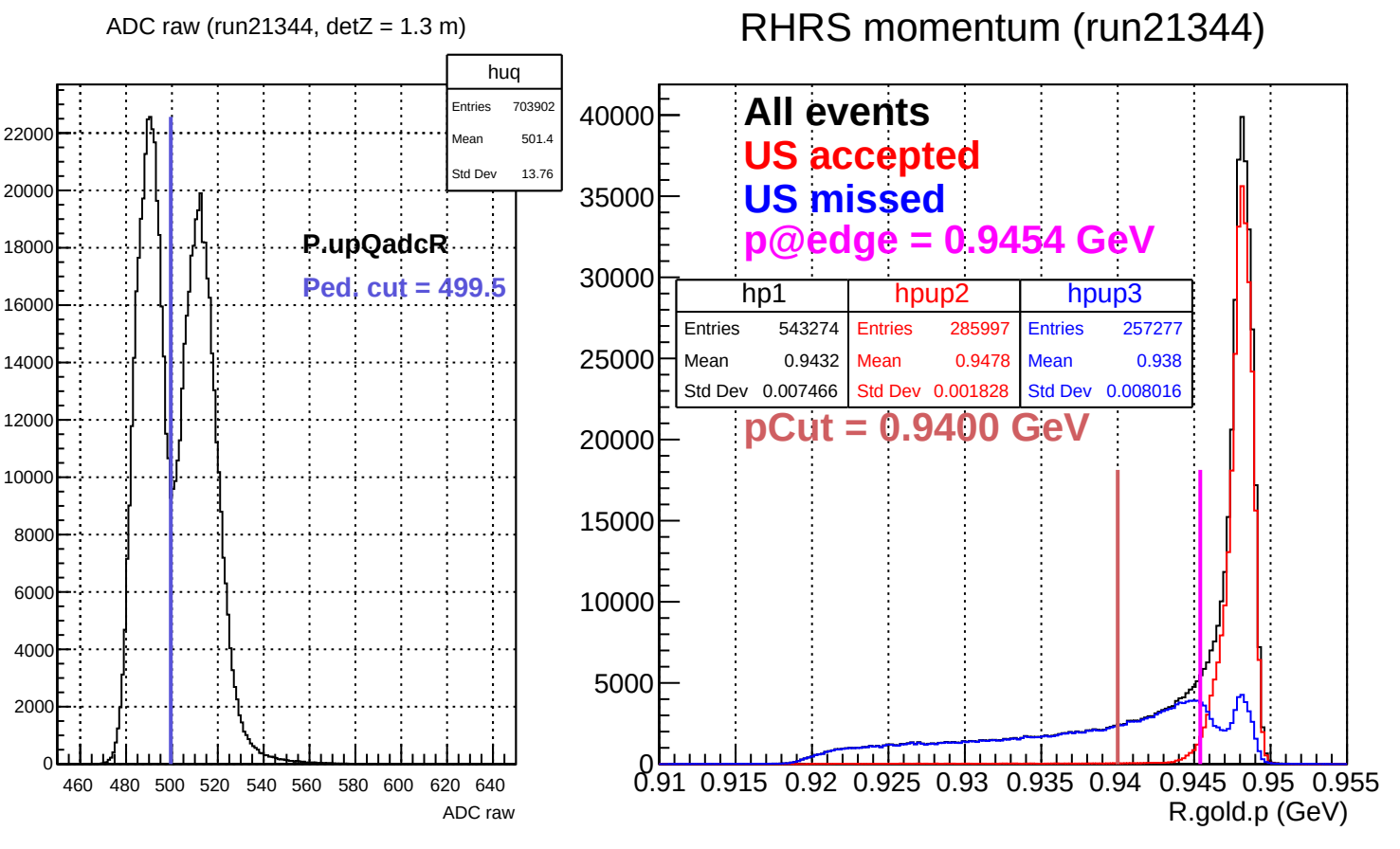

θlab (deg), pCut = 0.939 GeV
Theta
Entries 421156
Mean 4.784
Std Dev 0.4447
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

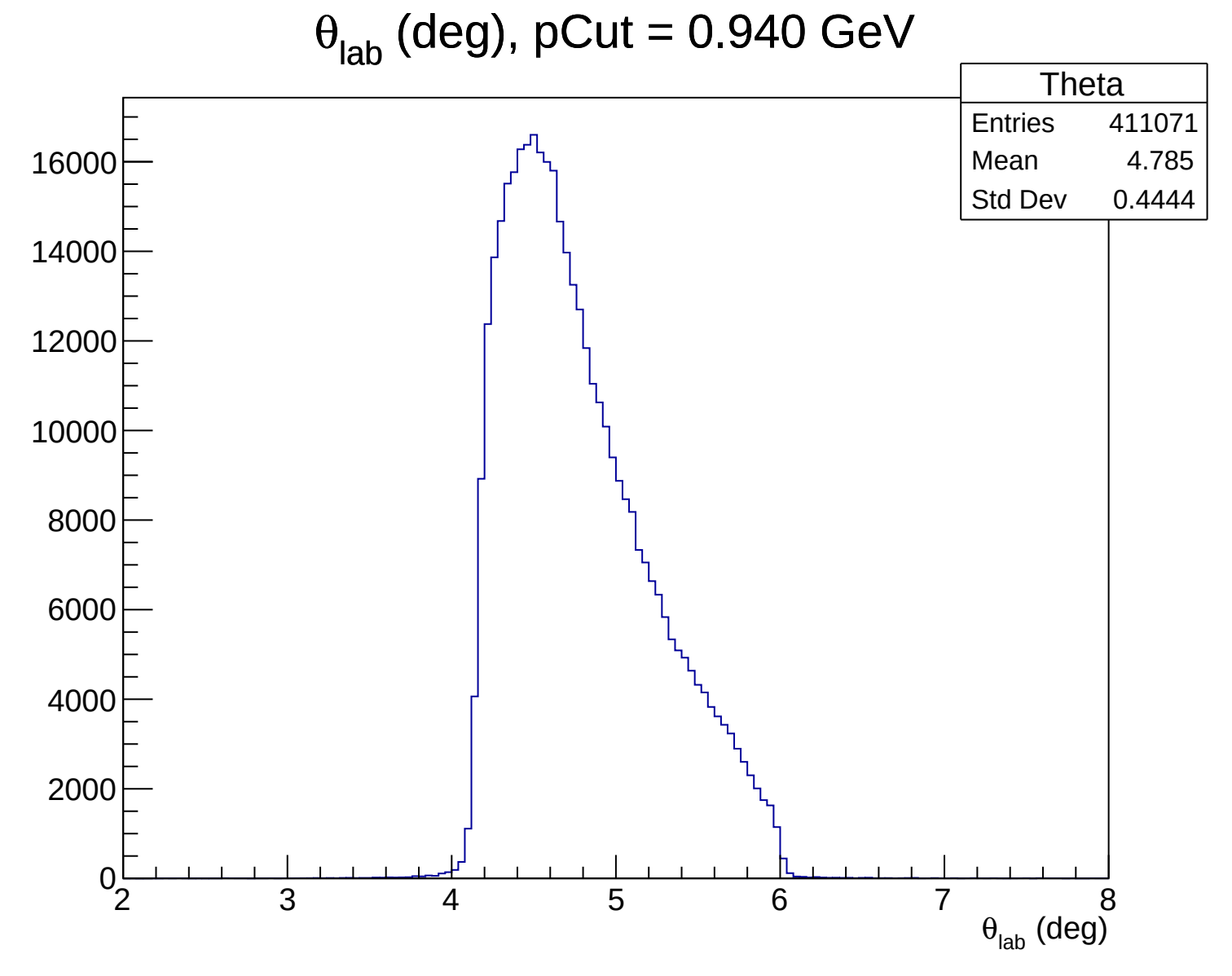

Asymmetry (ppm), pCut = 0.939 GeV
Asym
Entries 421156
Mean 0.571
Std Dev 0.07757
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

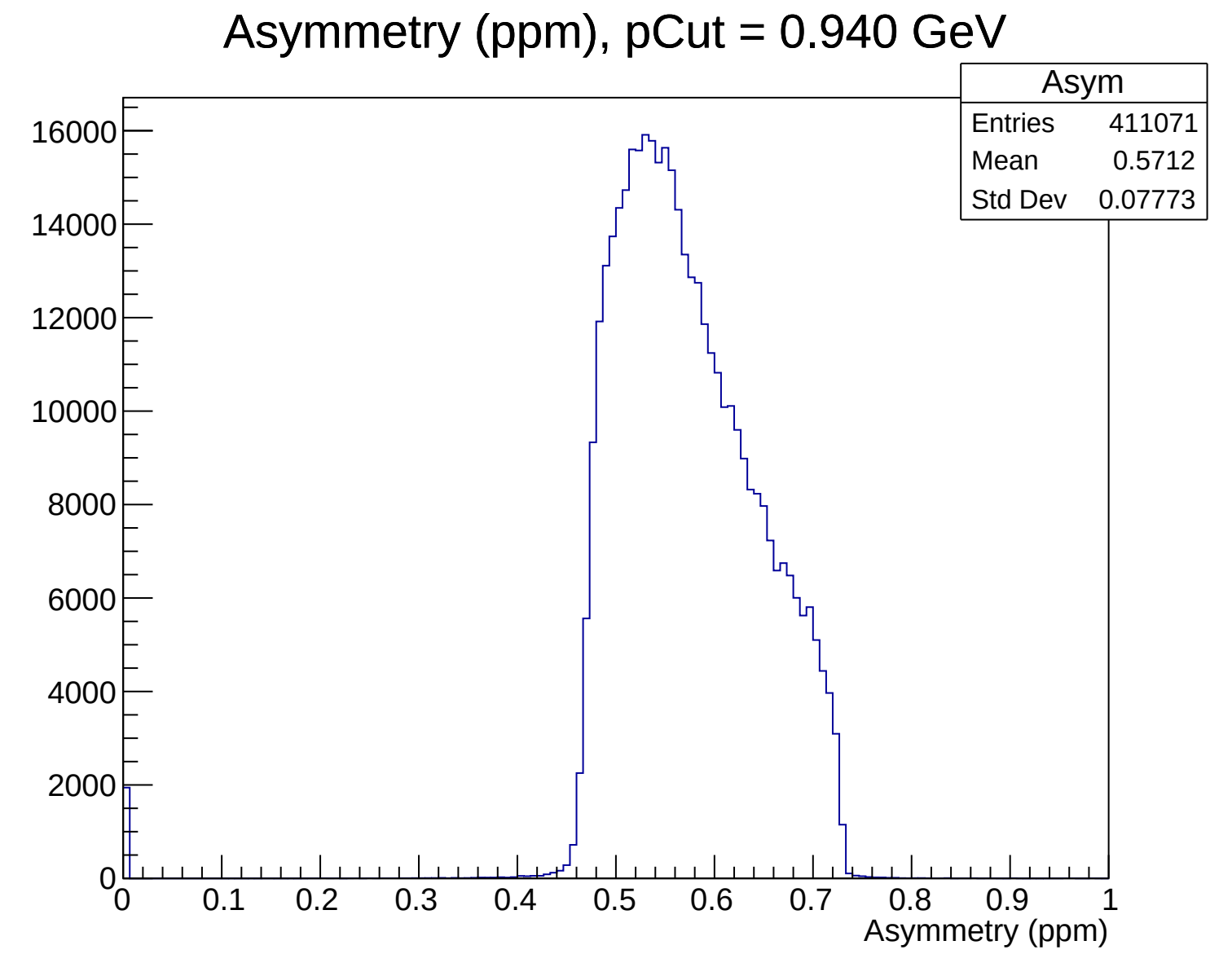

Stretched Asym. (ppm), pCut = 0.939 GeV
SAsym
Entries 421156
Mean 0.5581
Std Dev 0.07387
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

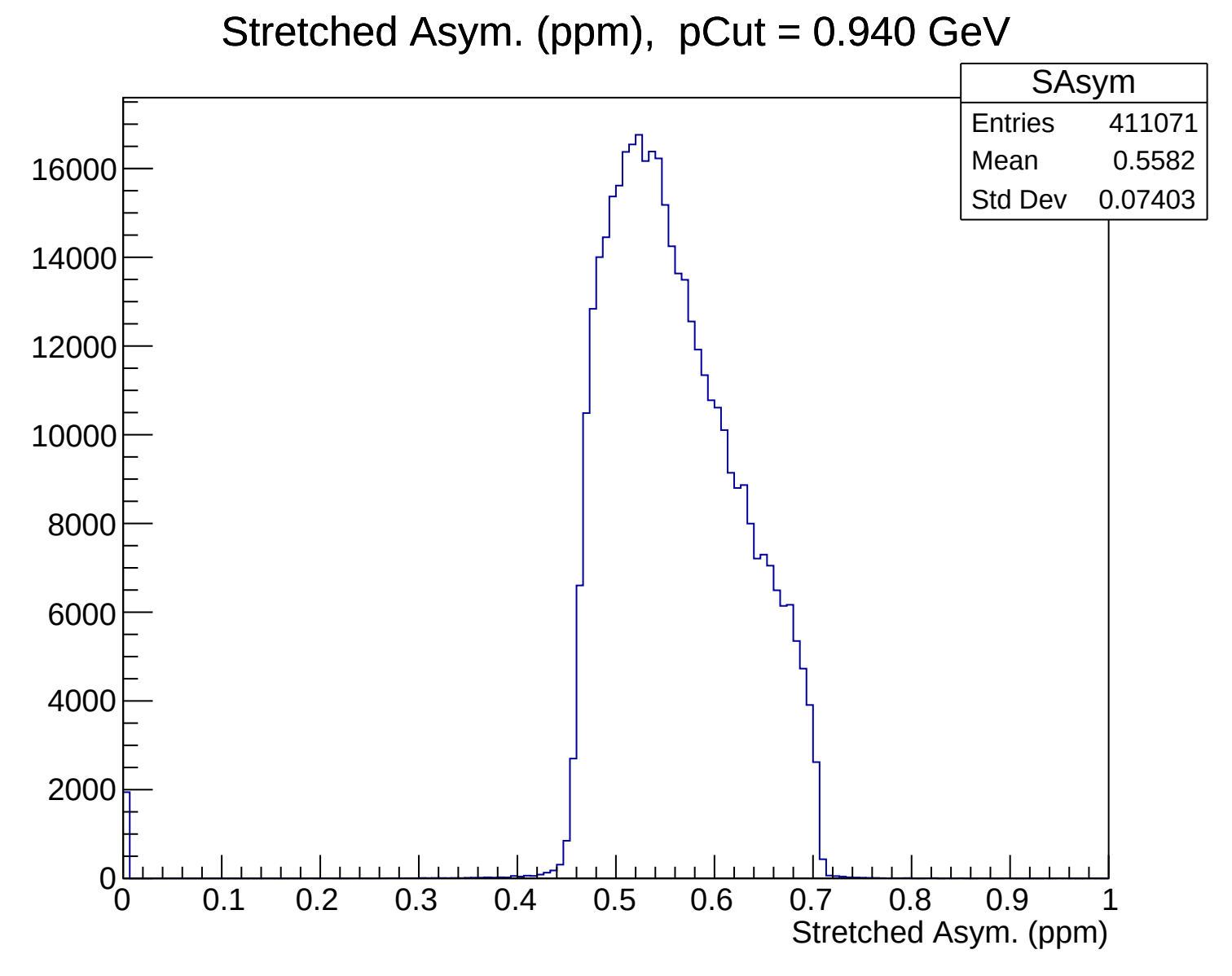

Q^2 (GeV/c)^2, pCut = 0.939 GeV
Q2
Entries 421156
Mean 0.006321
Std Dev 0.001202
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

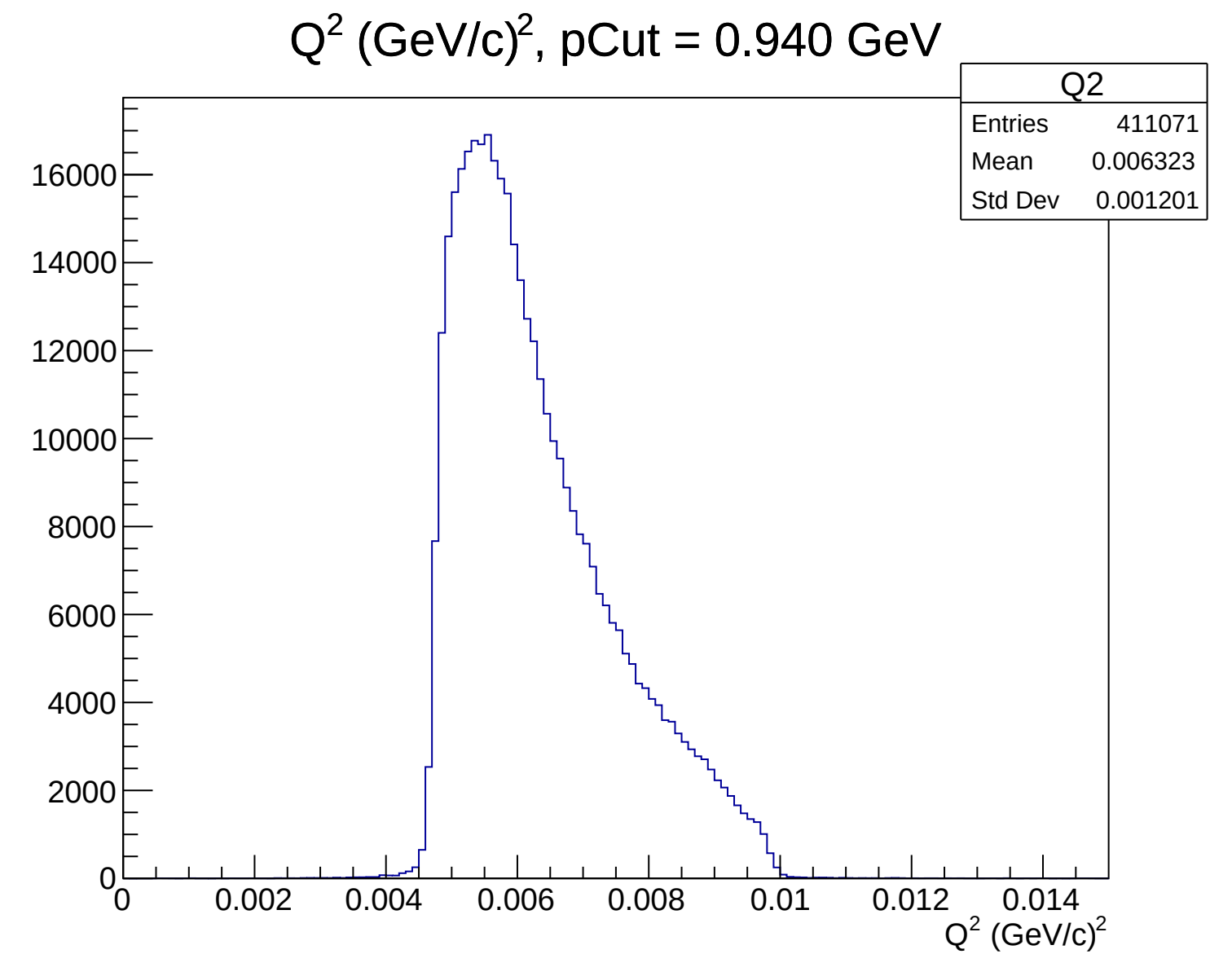

Sensitivity, pCut = 0.939 GeV
sens
Entries 421156
Mean 0.02224
Std Dev 0.003829
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

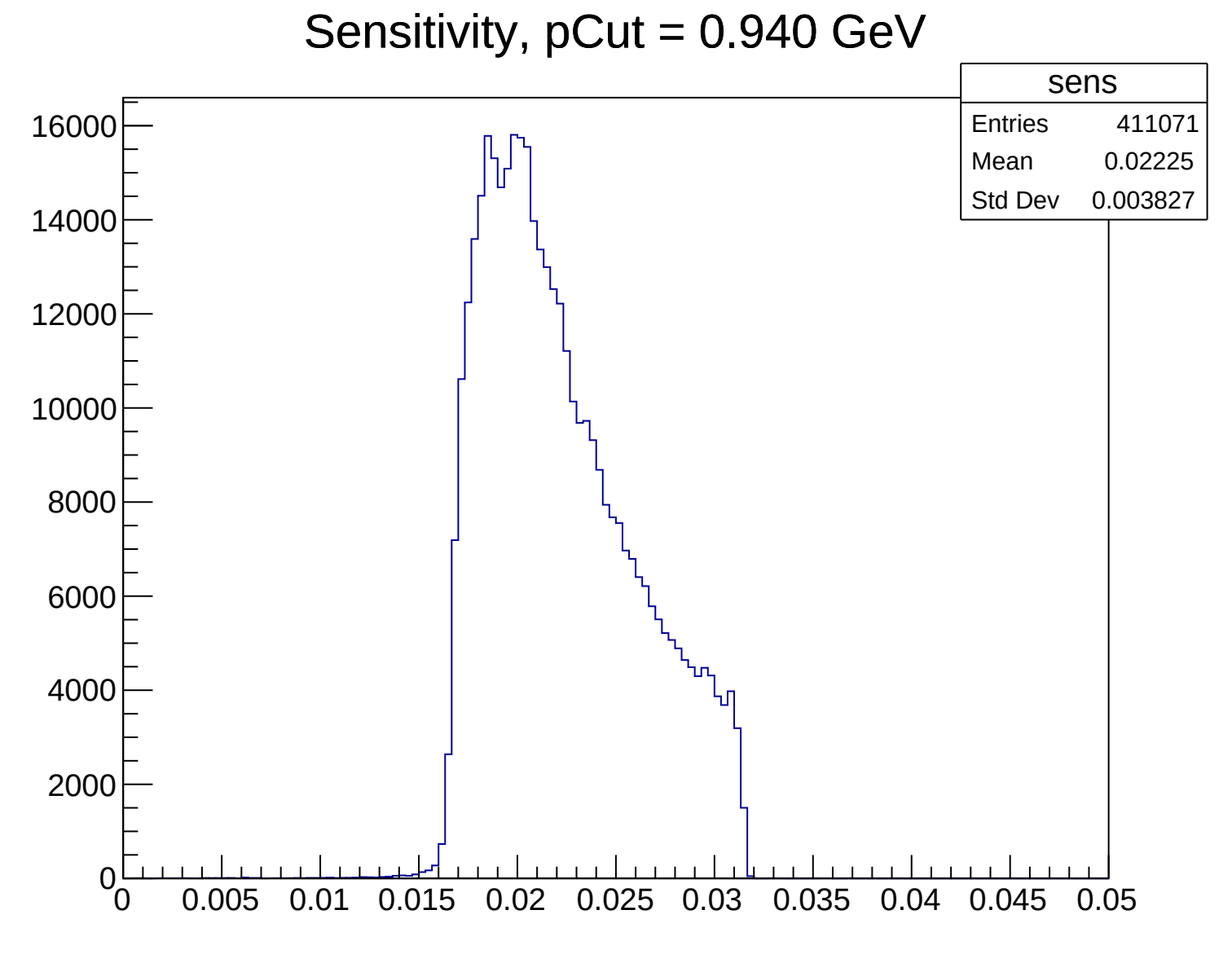

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9400 GeV
R.gold.p (GeV)

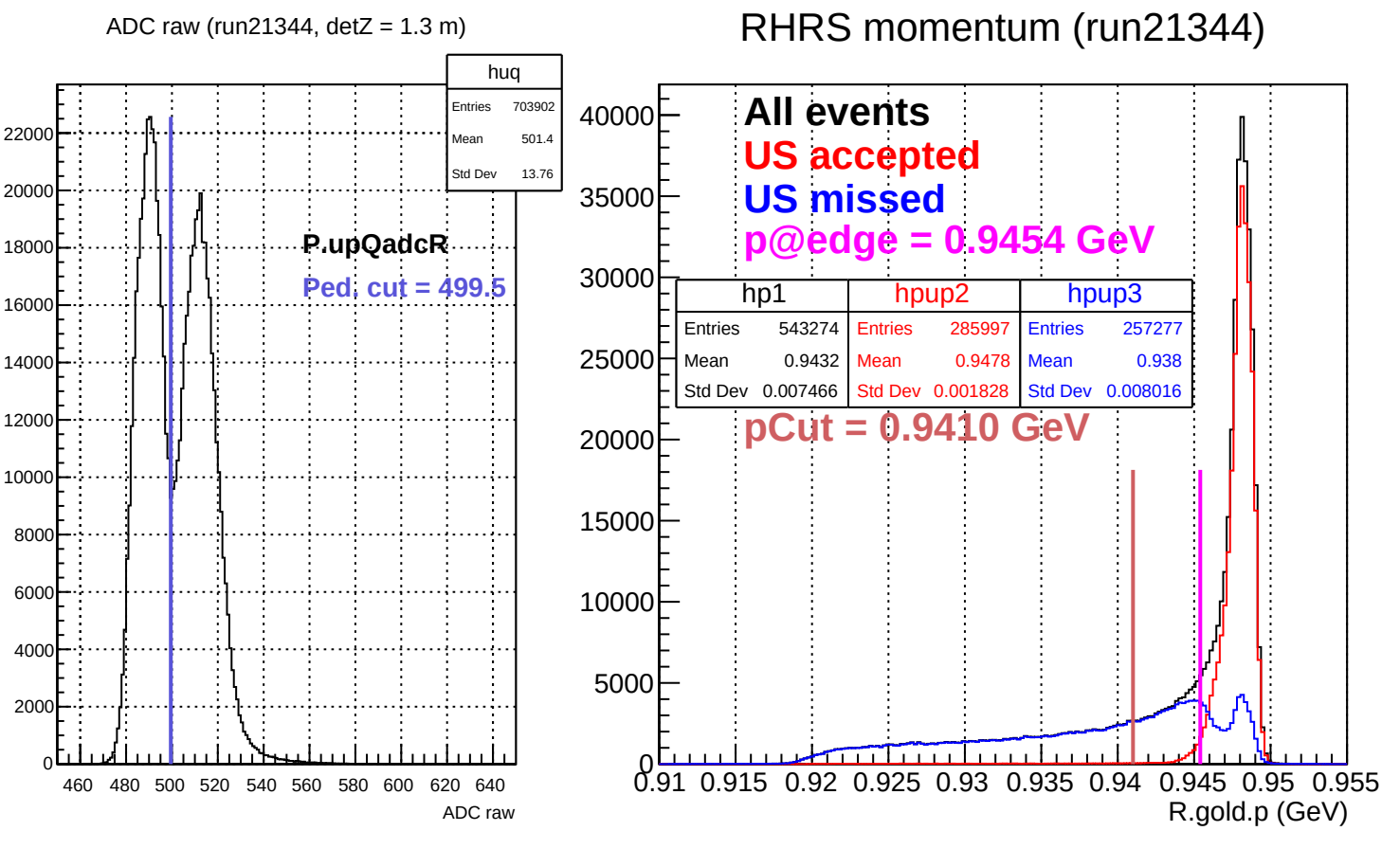

θlab (deg), pCut = 0.940 GeV
Theta
Entries 411071
Mean 4.785
Std Dev 0.4444
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

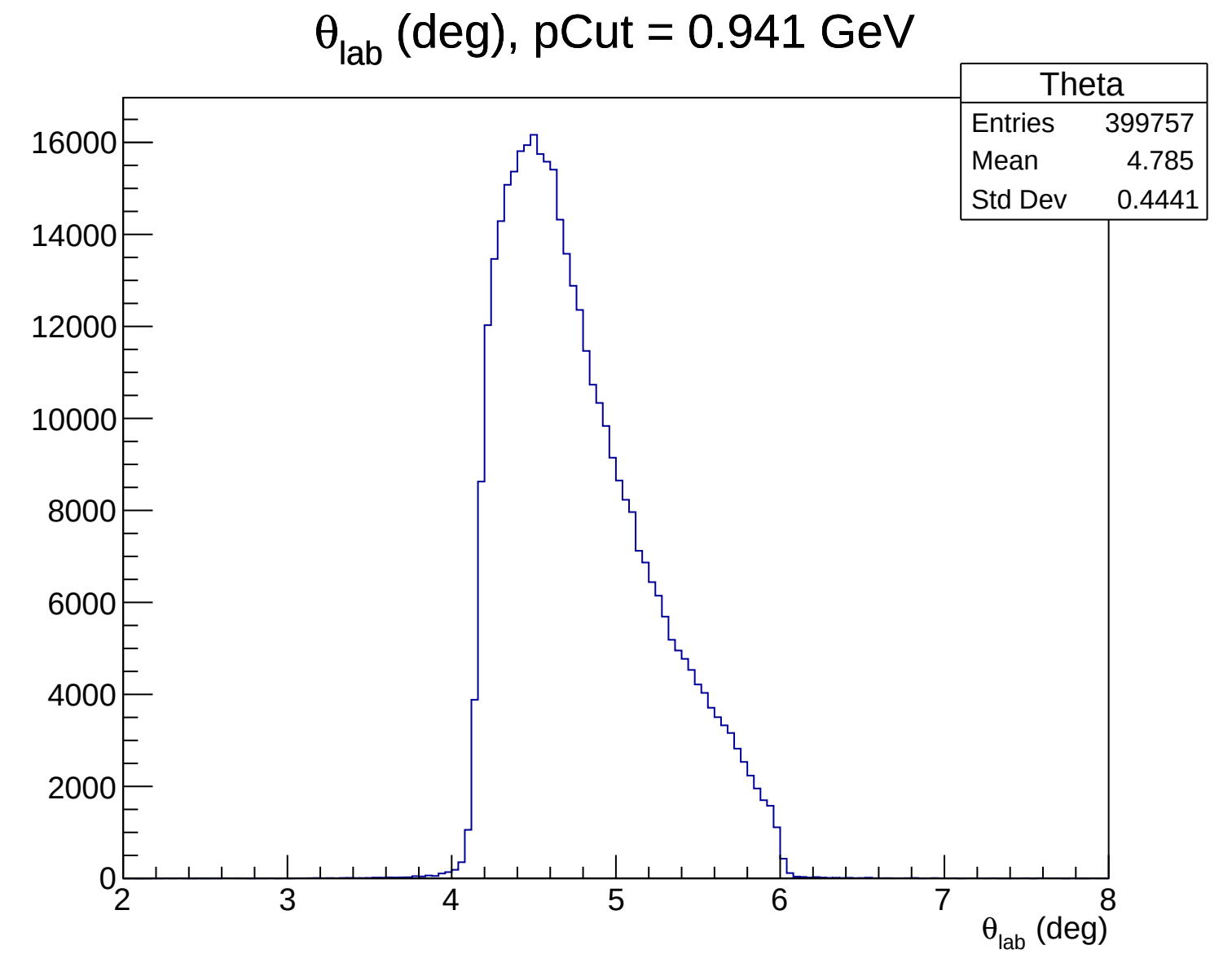

Asymmetry (ppm), pCut = 0.940 GeV
Asym
Entries 411071
Mean 0.5712
Std Dev 0.07773
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

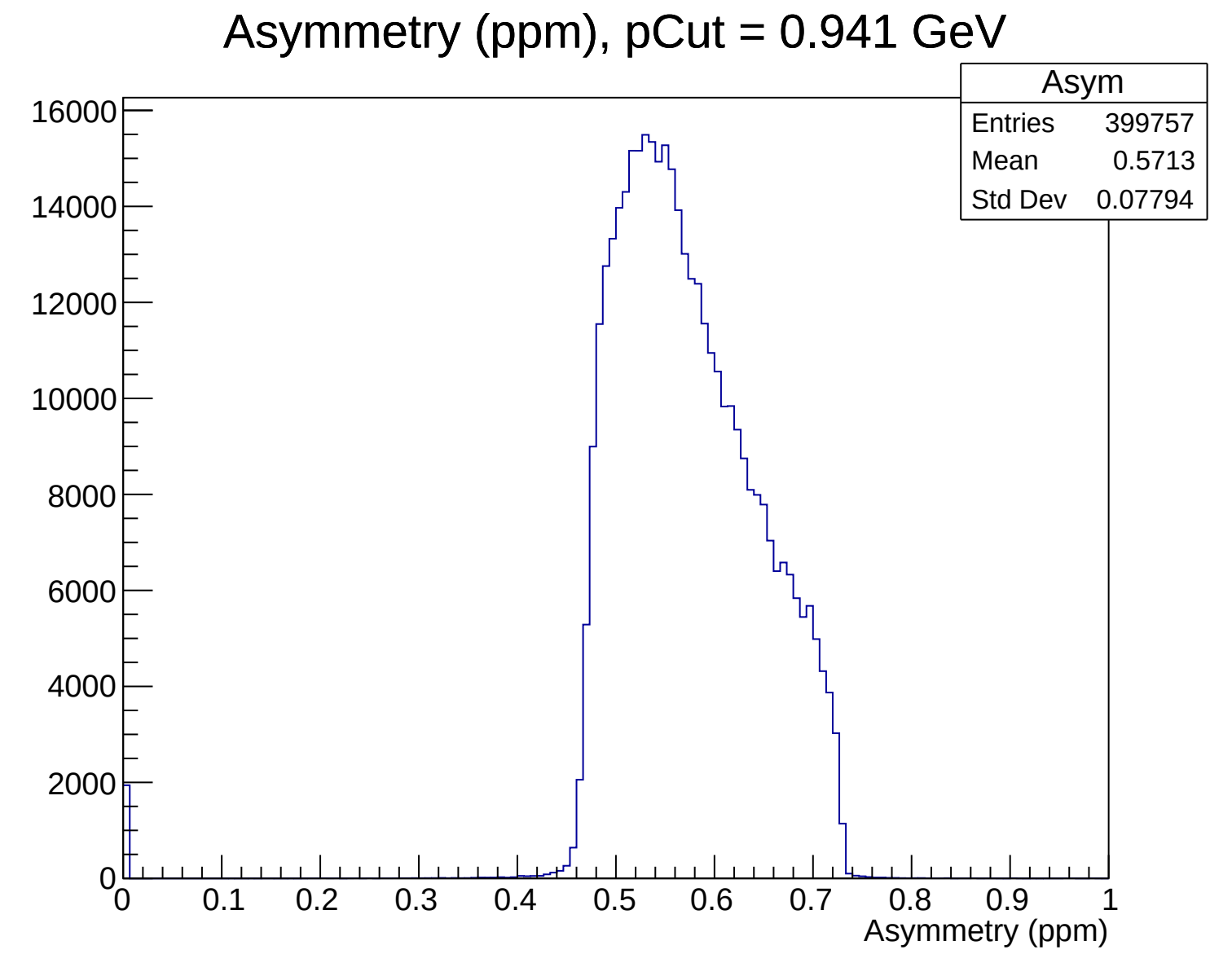

Stretched Asym. (ppm), pCut = 0.940 GeV
SAsym
Entries 411071
Mean 0.5582
Std Dev 0.07403
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

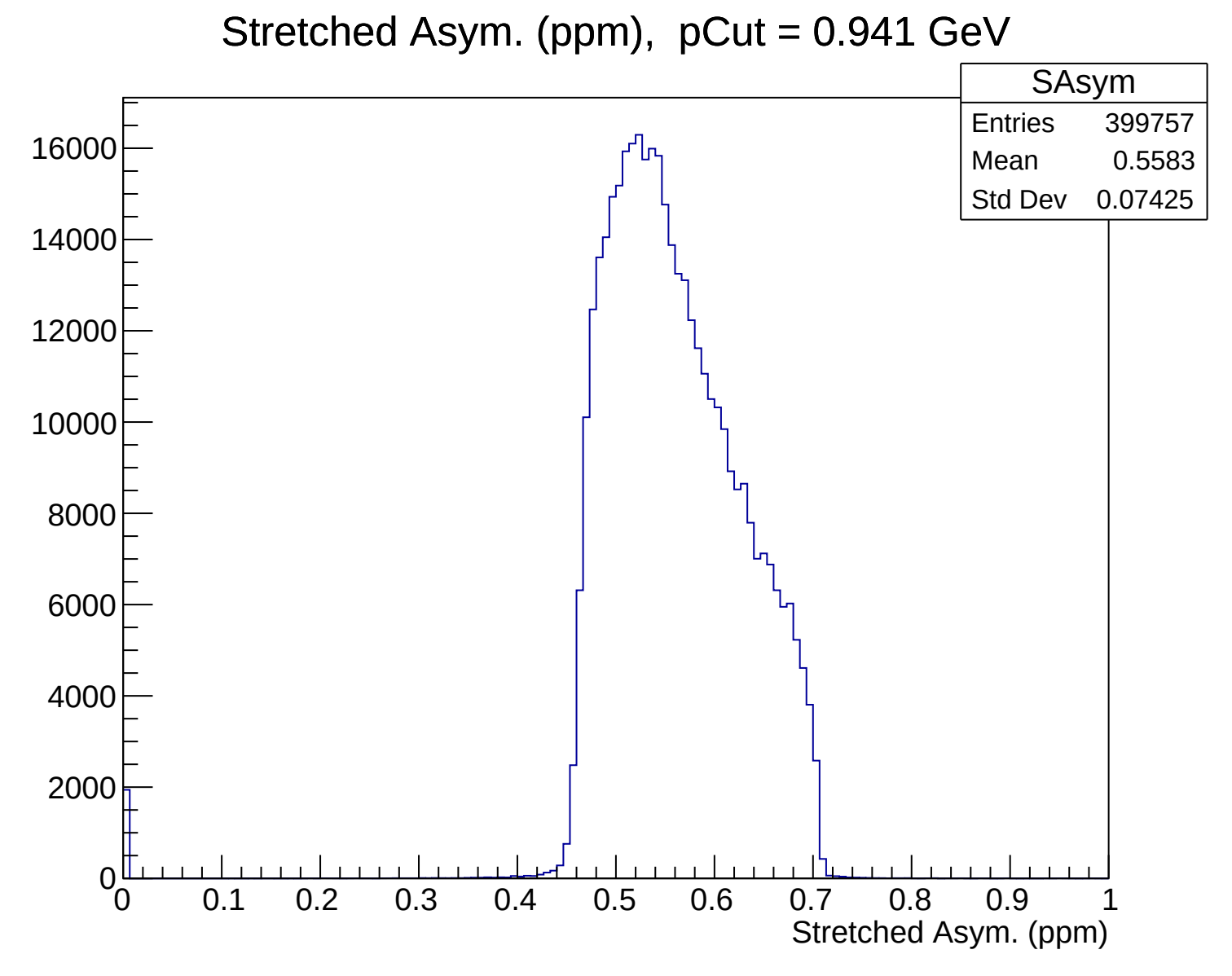

Q^2 (GeV/c)^2, pCut = 0.940 GeV
Q2
Entries 411071
Mean 0.006323
Std Dev 0.001201
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

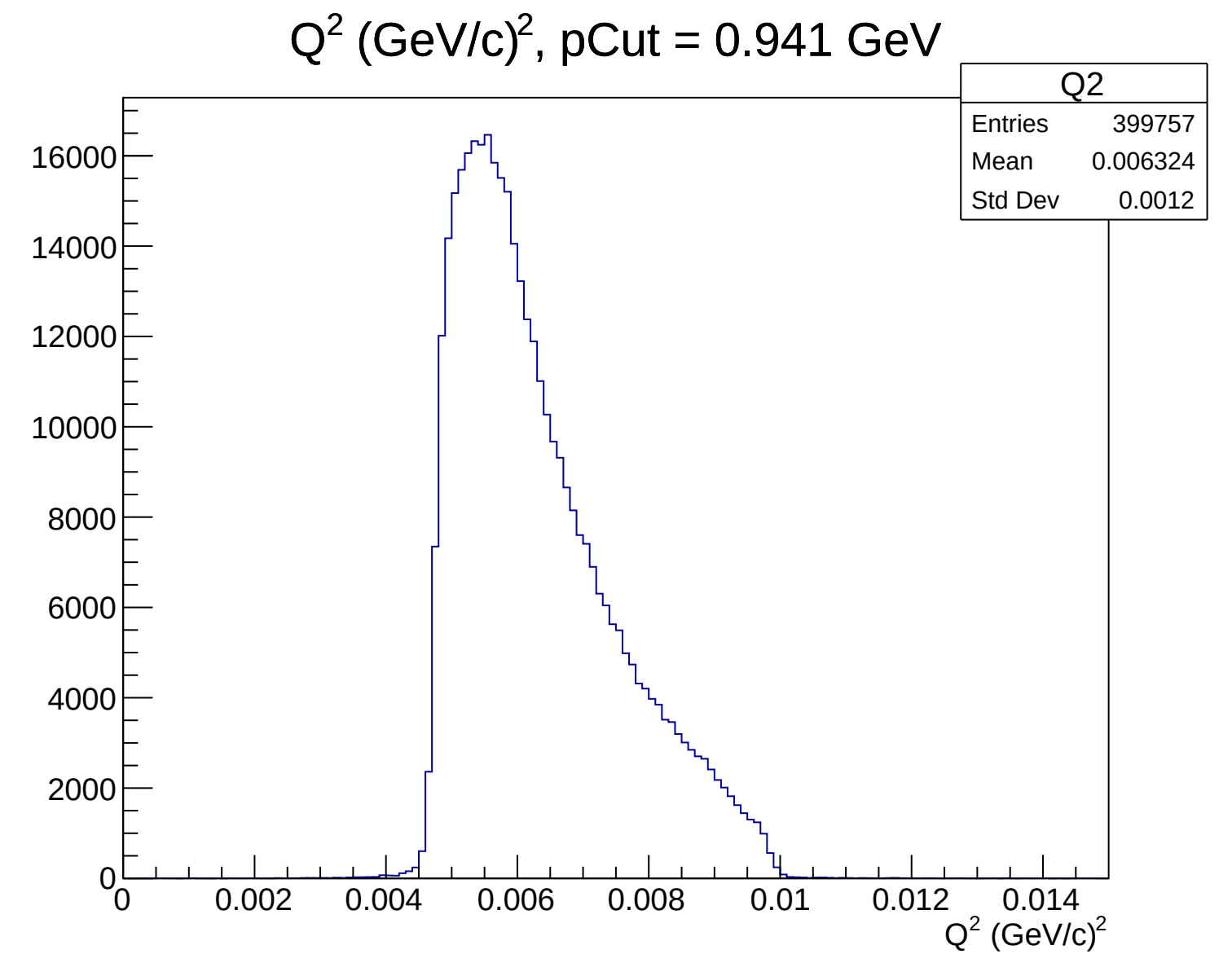

Sensitivity, pCut = 0.940 GeV
sens
Entries 411071
Mean 0.02225
Std Dev 0.003827
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

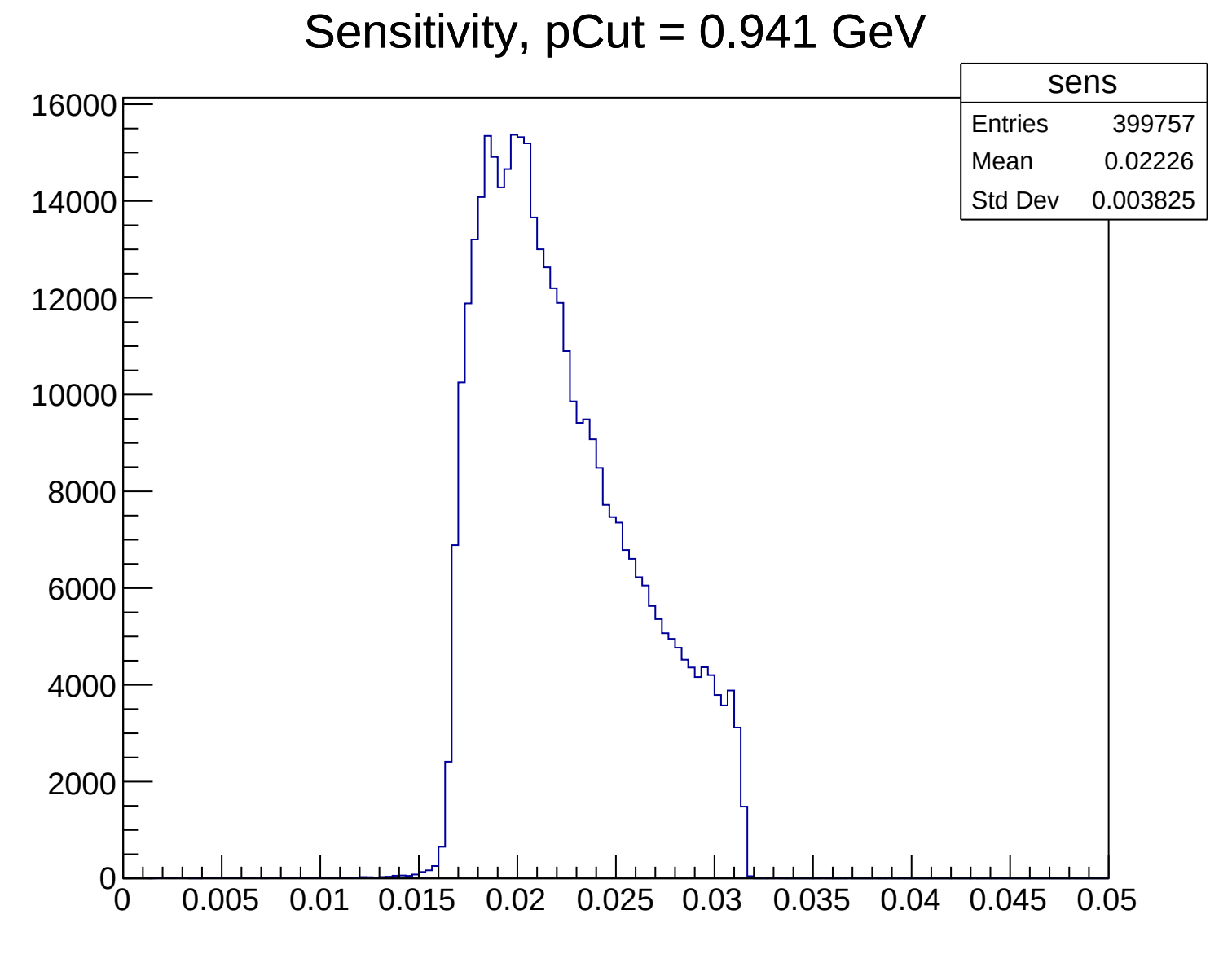

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9410 GeV
R.gold.p (GeV)

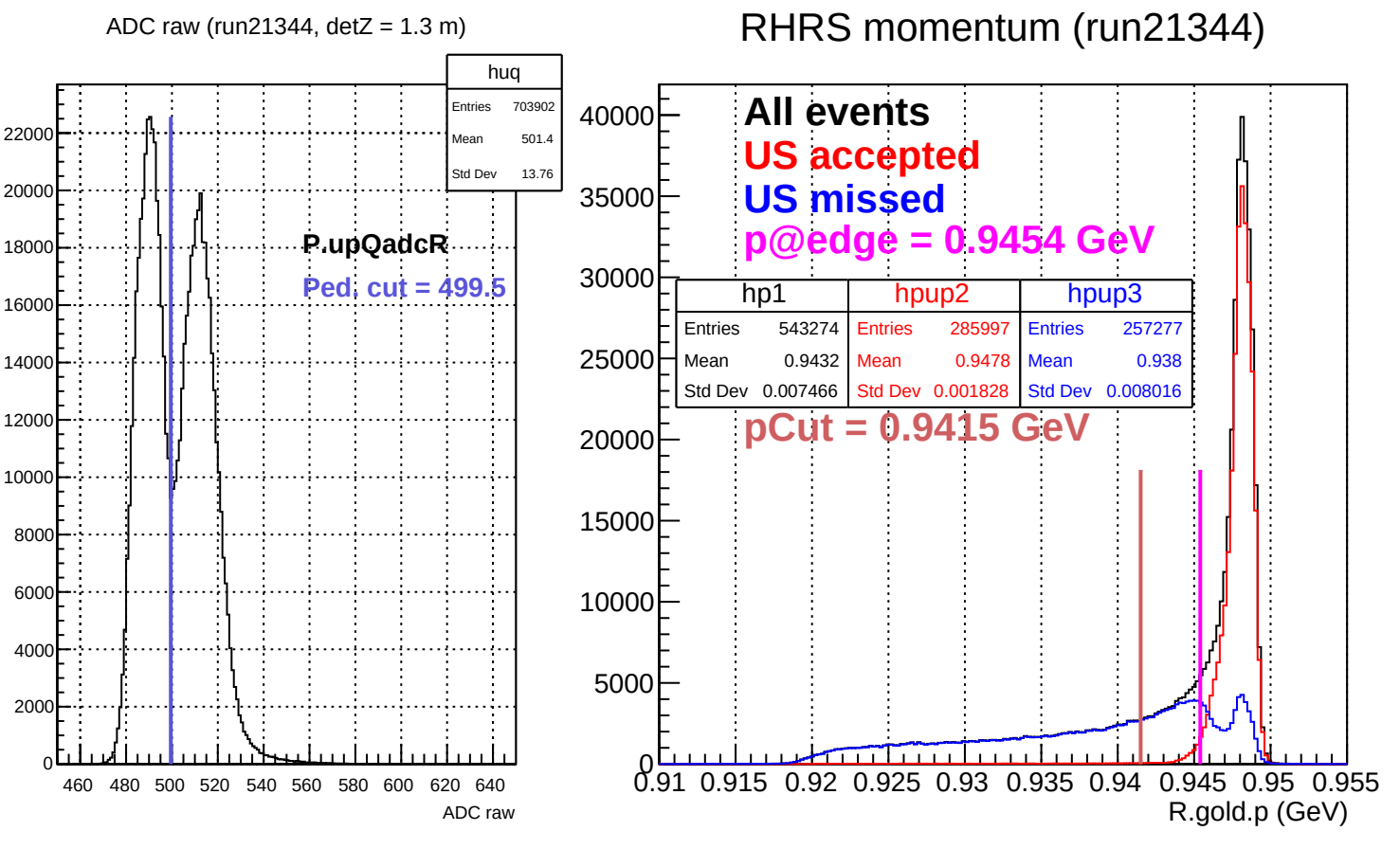

θlab (deg), pCut = 0.941 GeV
Theta
Entries 399757
Mean 4.785
Std Dev 0.4441
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

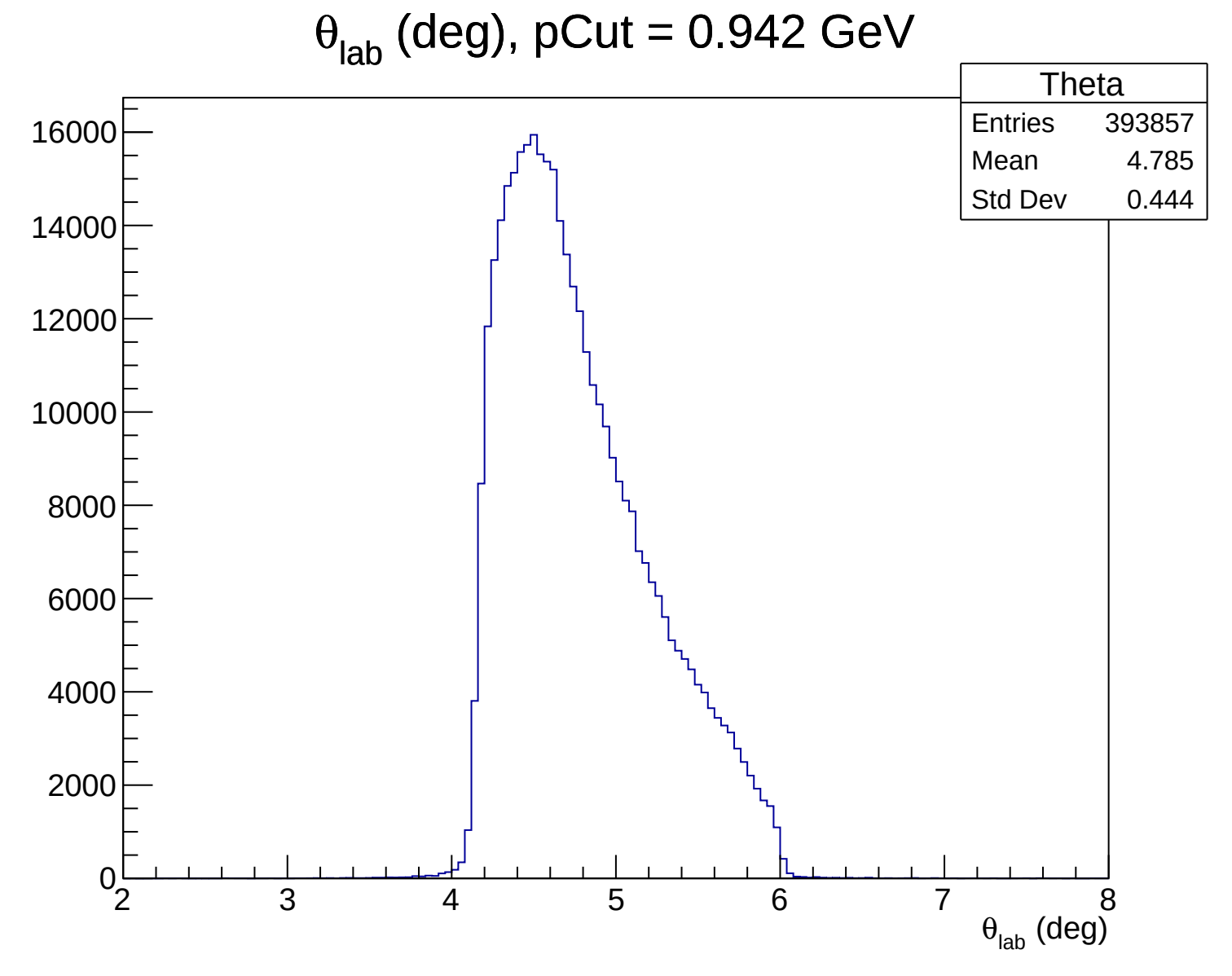

Asymmetry (ppm), pCut = 0.941 GeV
Asym
Entries 399757
Mean 0.5713
Std Dev 0.07794
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

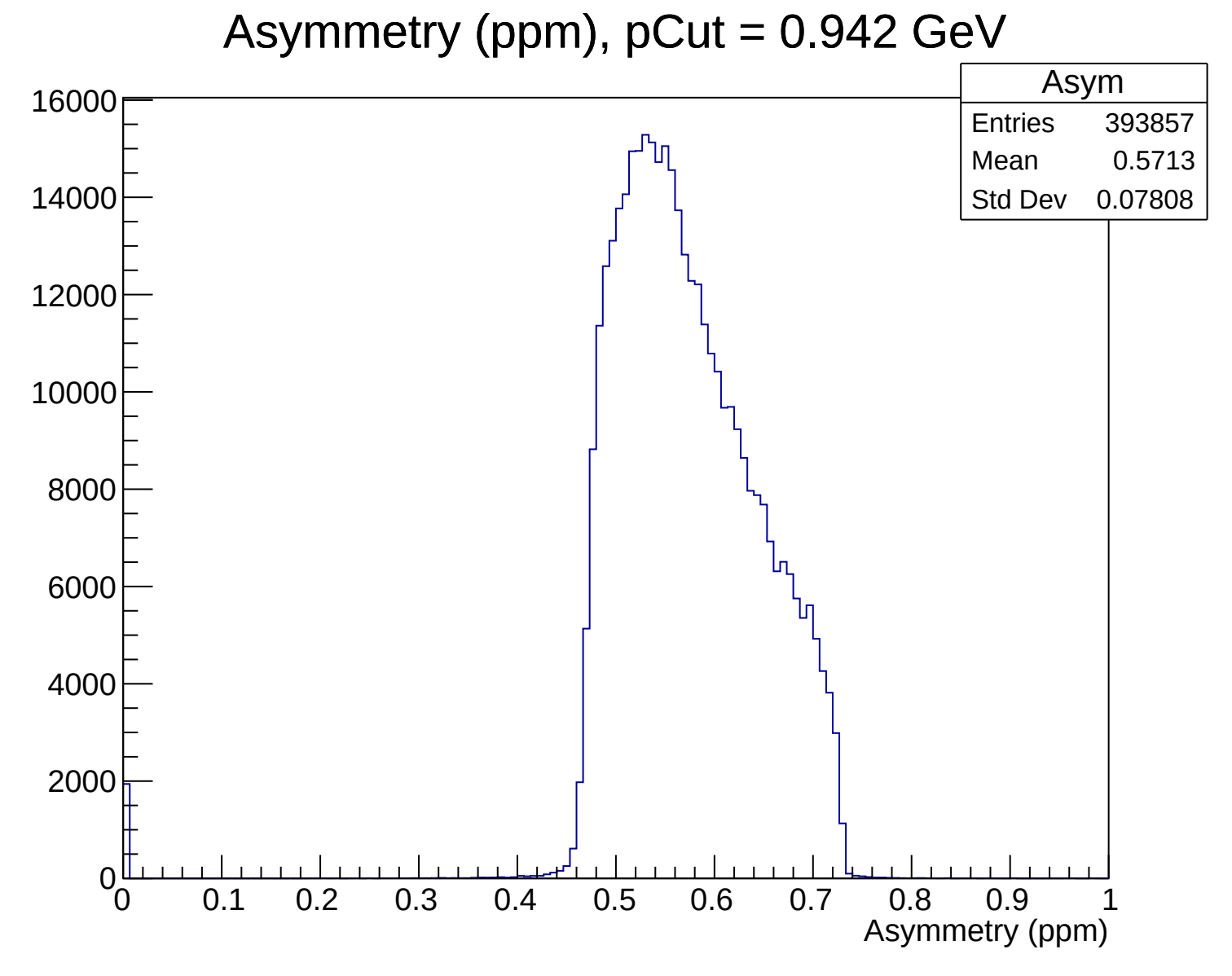

Stretched Asym. (ppm), pCut = 0.941 GeV
SAsym
Entries 399757
Mean 0.5583
Std Dev 0.07425
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

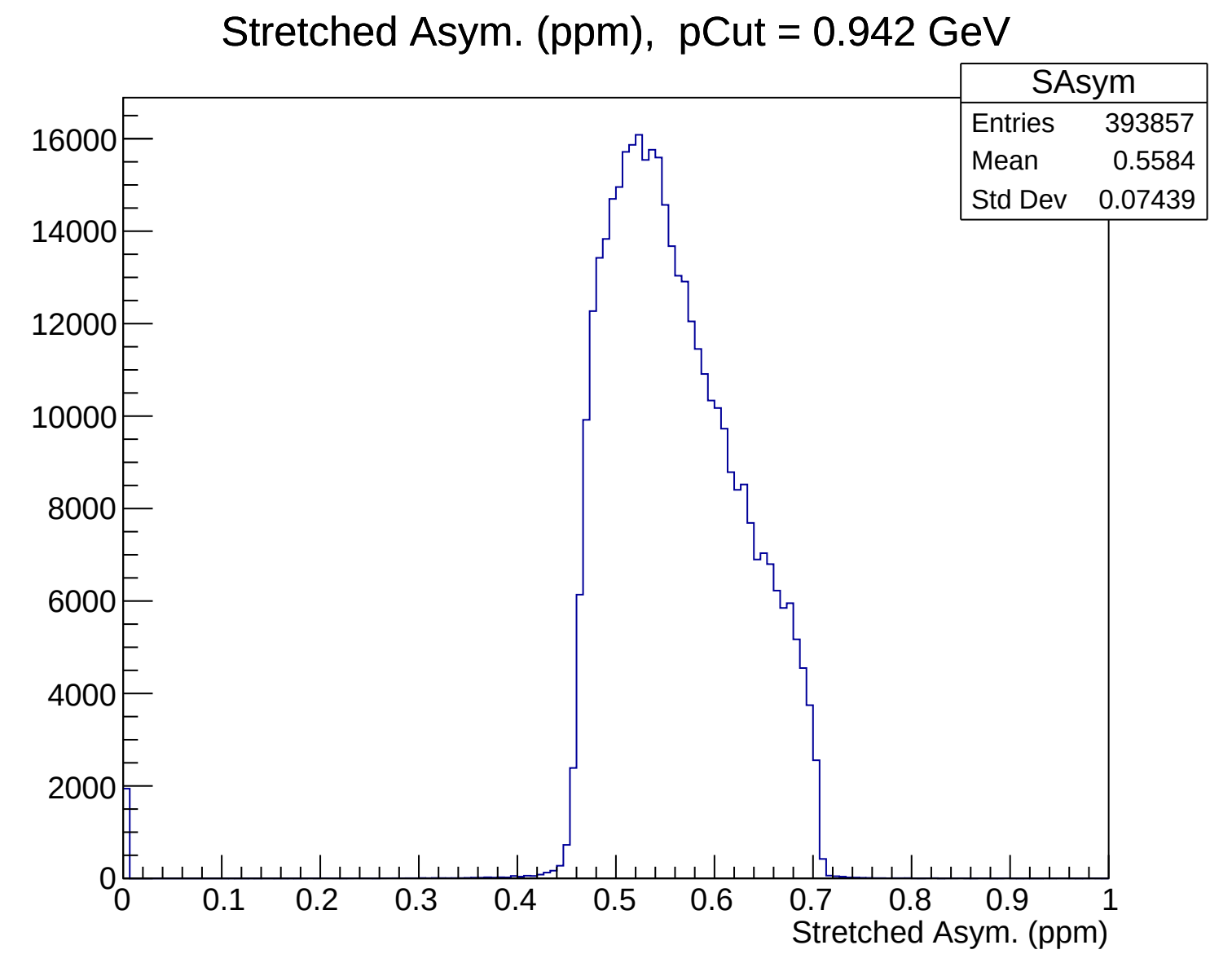

Q^2 (GeV/c)^2, pCut = 0.941 GeV
Q2
Entries 399757
Mean 0.006324
Std Dev 0.0012
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

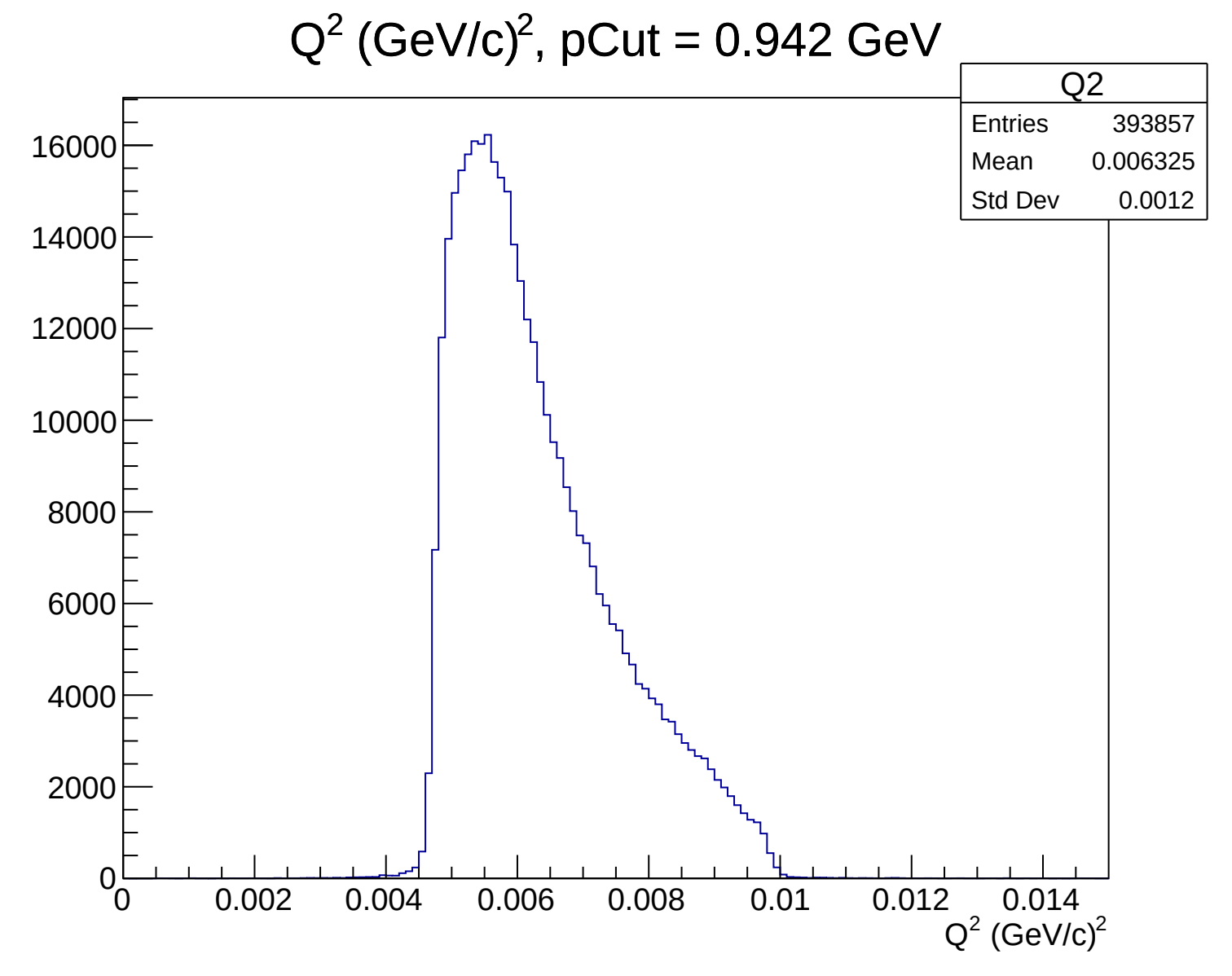

Sensitivity, pCut = 0.941 GeV
sens
Entries 399757
Mean 0.02226
Std Dev 0.003825
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

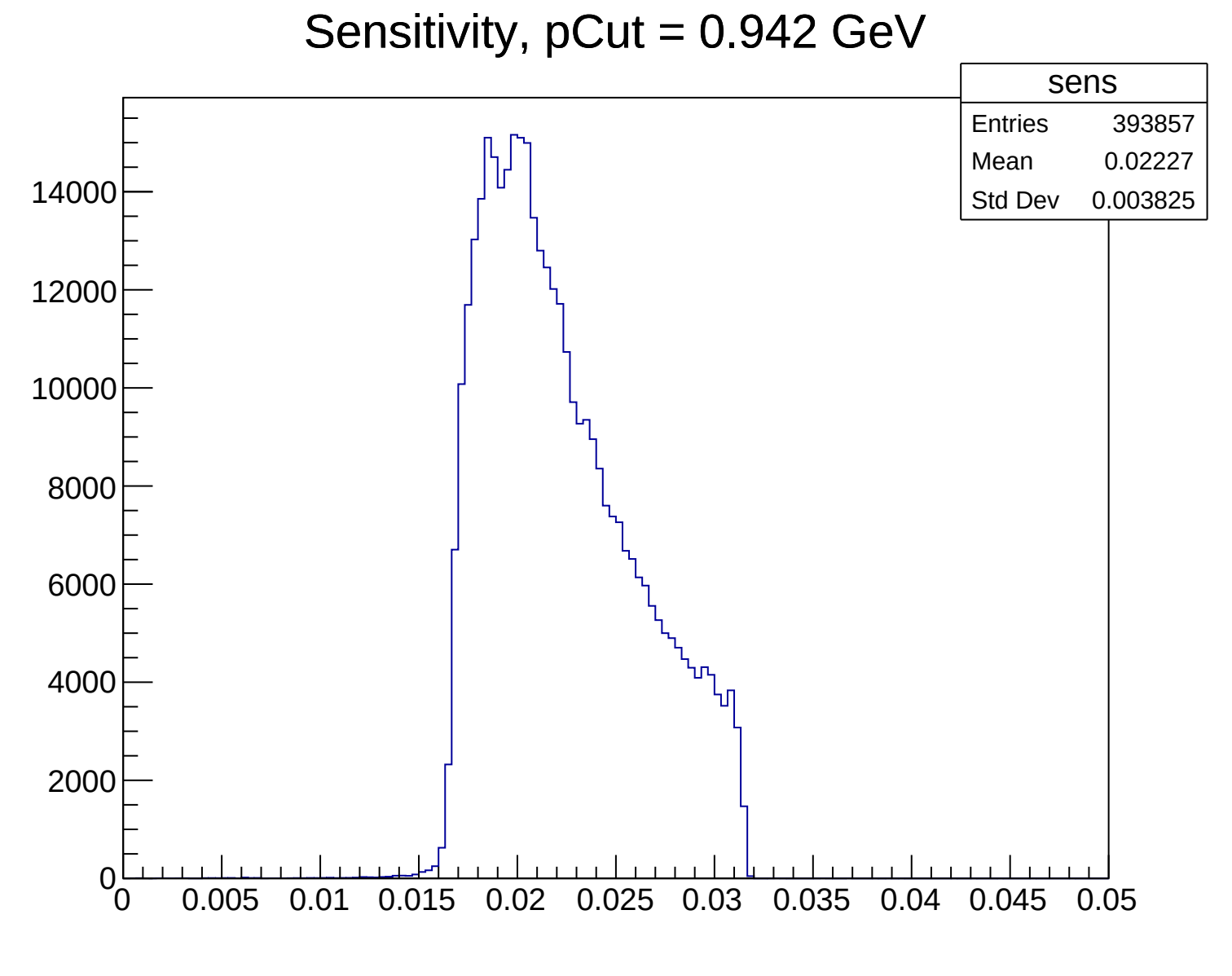

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9415 GeV
R.gold.p (GeV)

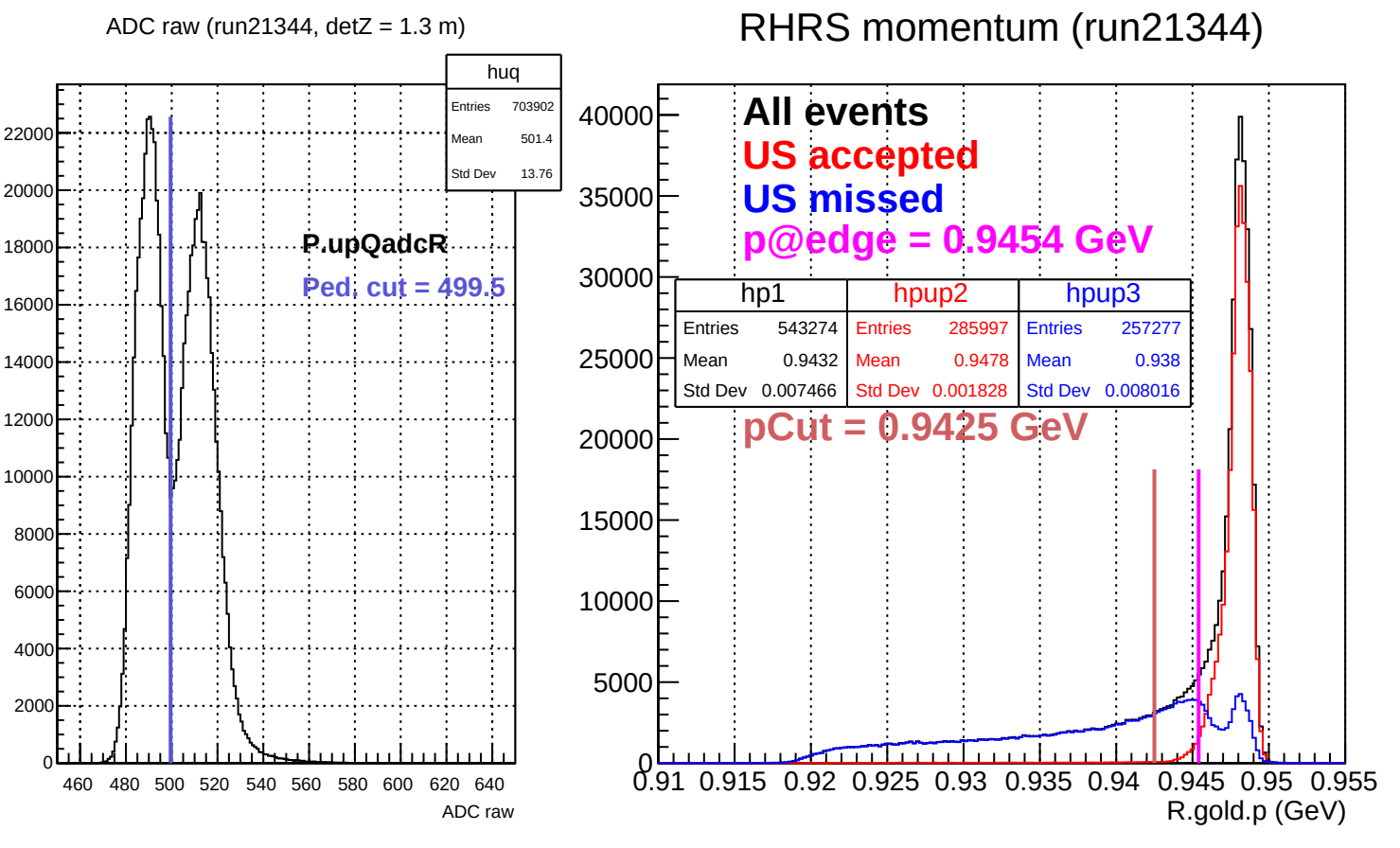

θlab (deg), pCut = 0.942 GeV
Theta
Entries 393857
Mean 4.785
Std Dev 0.444
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

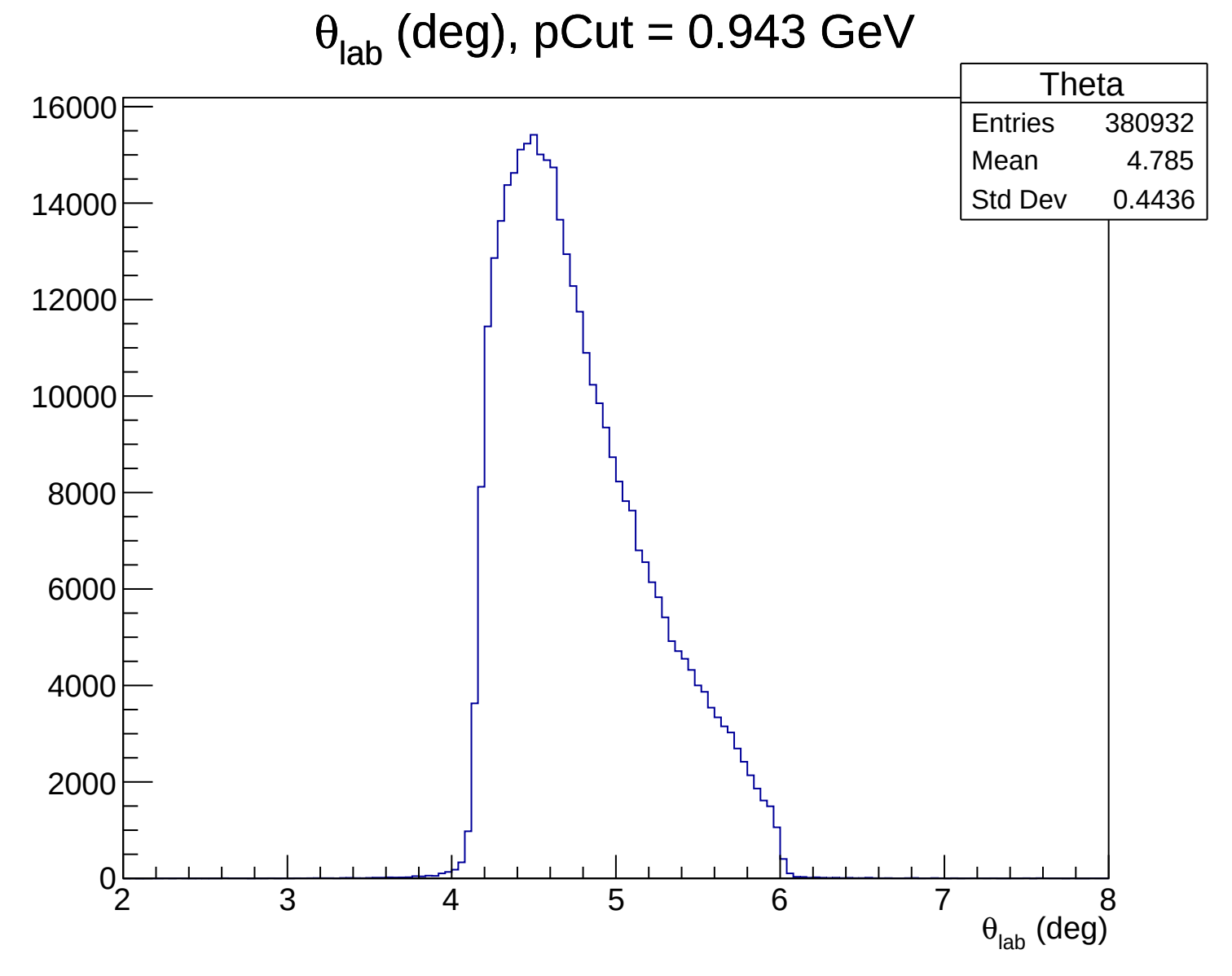

Asymmetry (ppm), pCut = 0.942 GeV
Asym
Entries 393857
Mean 0.5713
Std Dev 0.07808
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

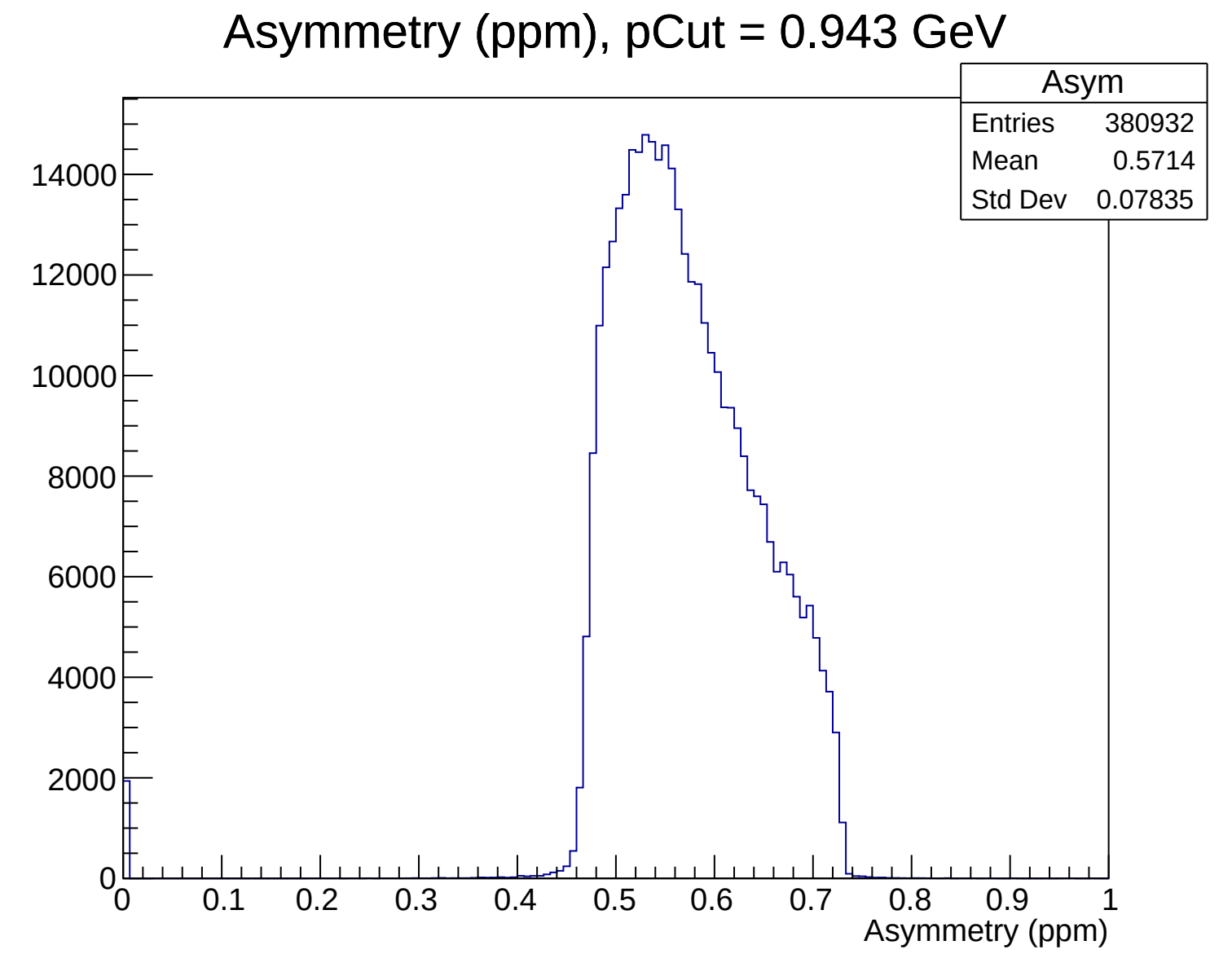

Stretched Asym. (ppm), pCut = 0.942 GeV
SAsym
Entries 393857
Mean 0.5584
Std Dev 0.07439
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

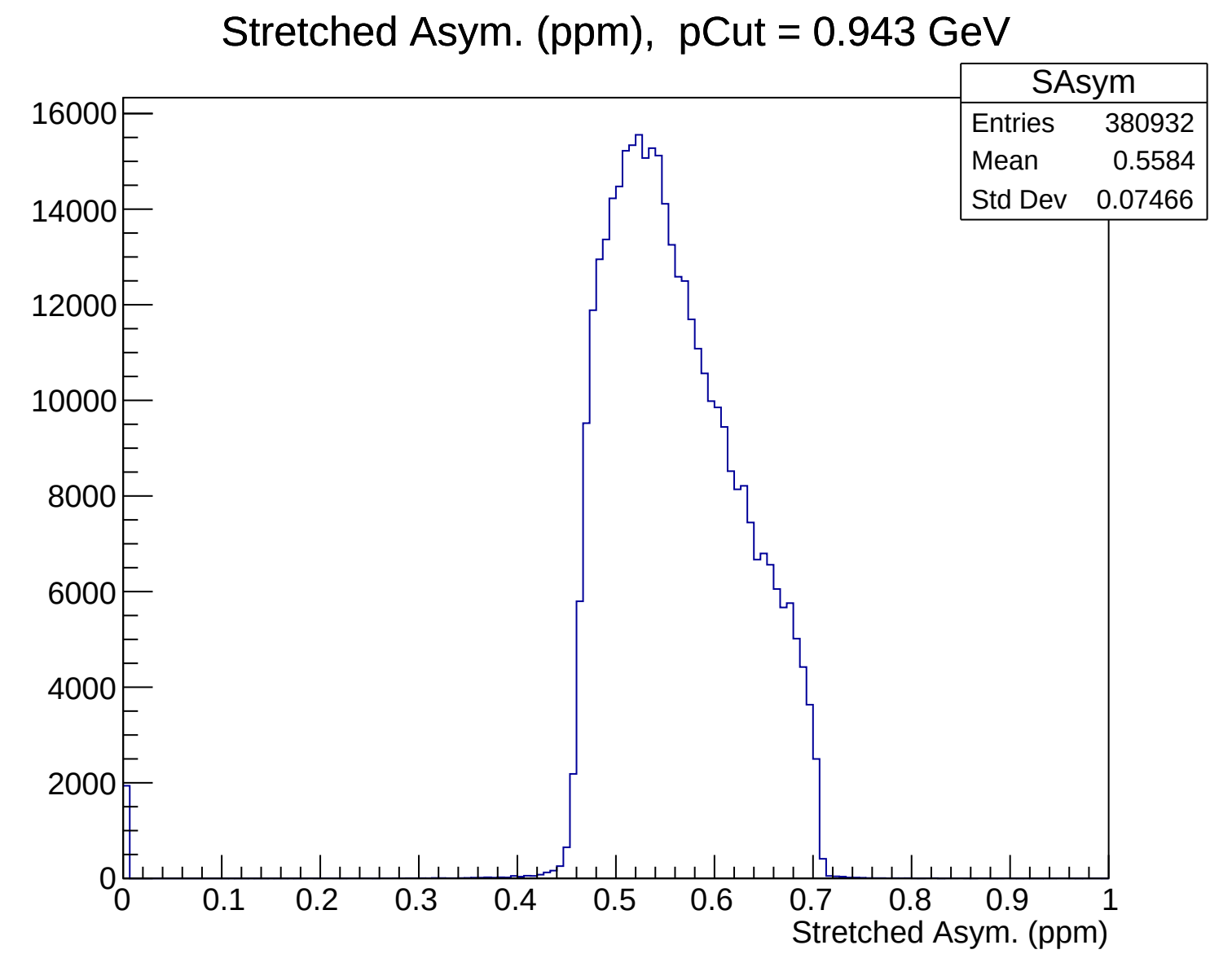

Q^2 (GeV/c)^2, pCut = 0.942 GeV
Q2
Entries 393857
Mean 0.006325
Std Dev 0.0012
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

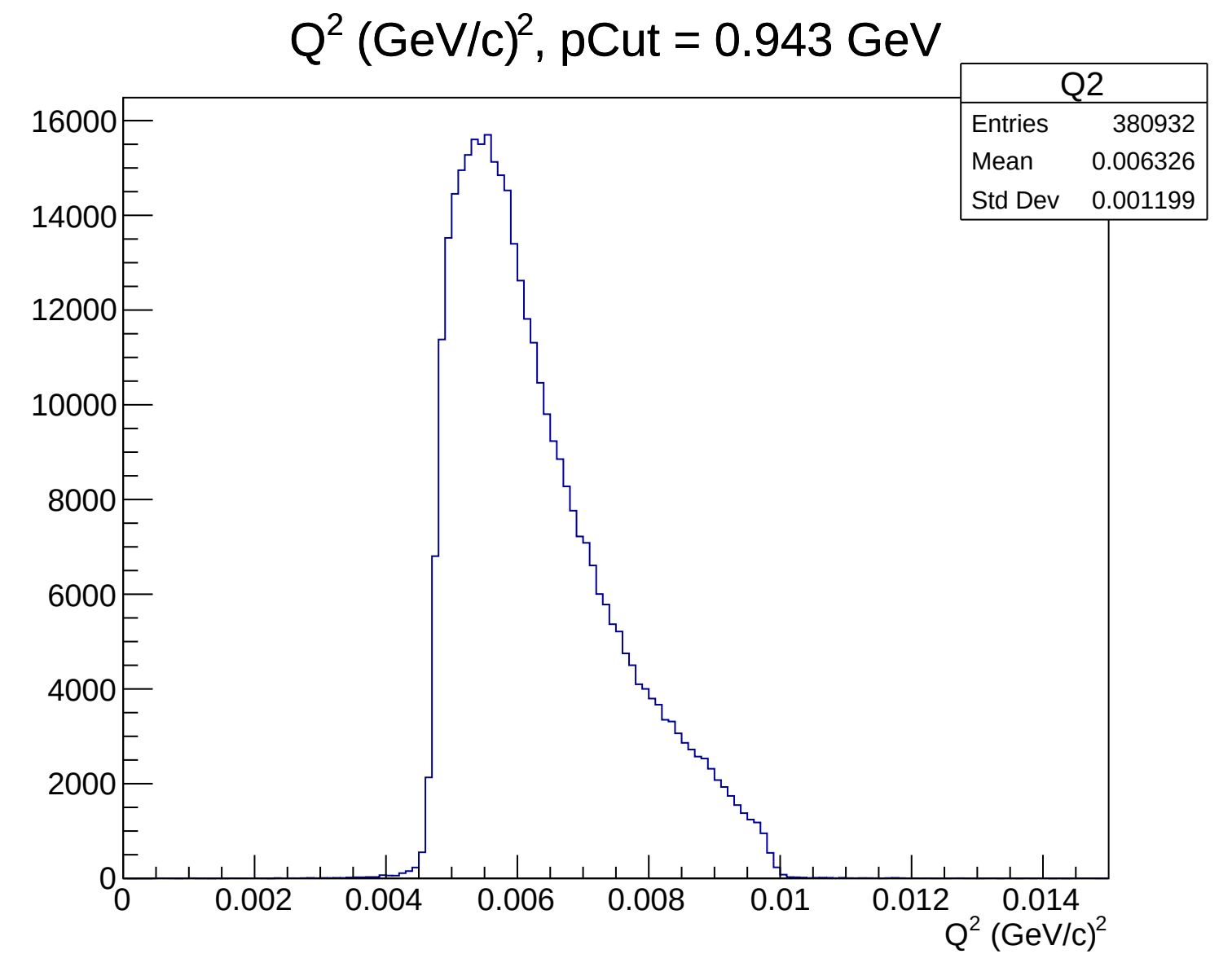

Sensitivity, pCut = 0.942 GeV
sens
Entries 393857
Mean 0.02227
Std Dev 0.003825
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

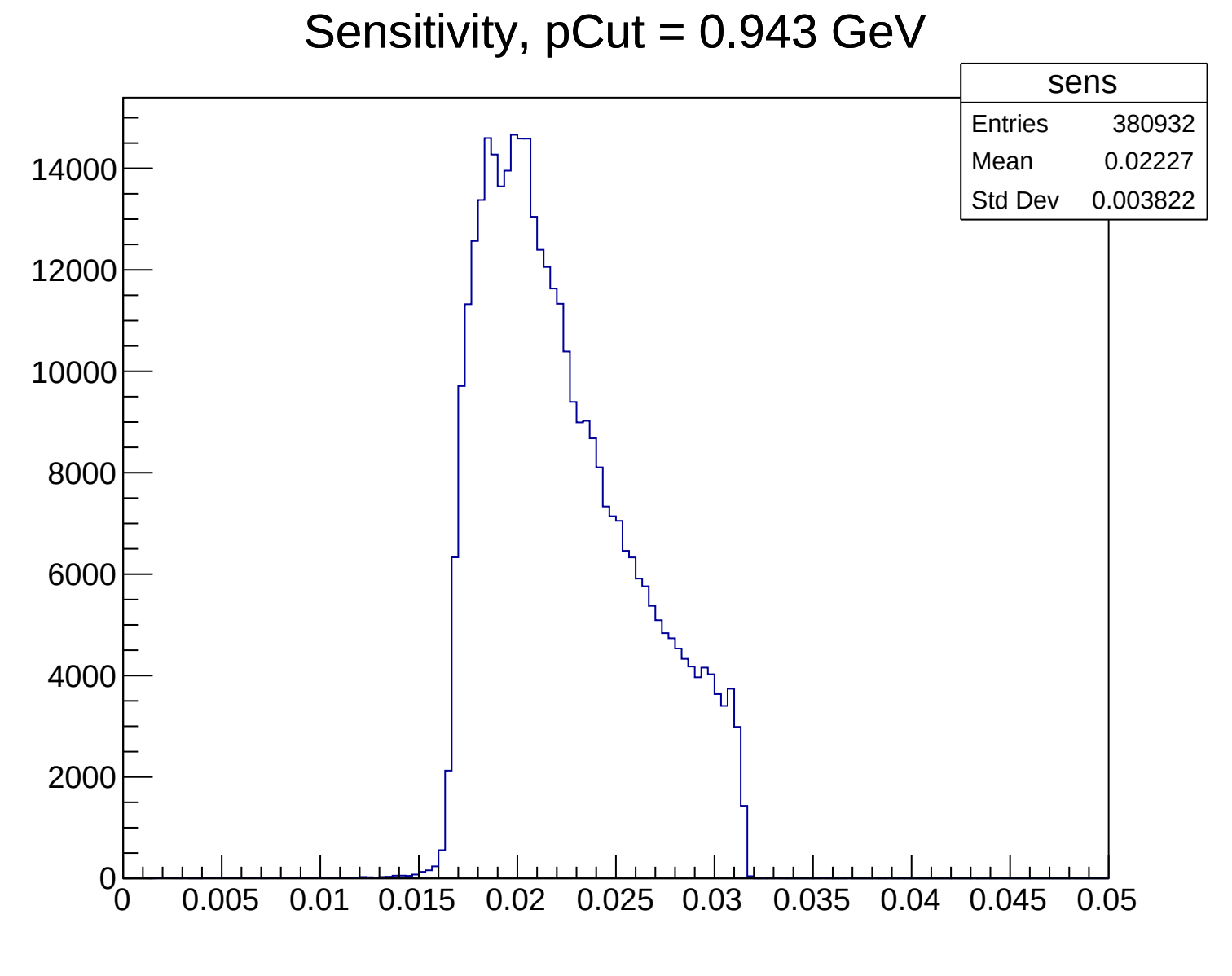

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9425 GeV
R.gold.p (GeV)

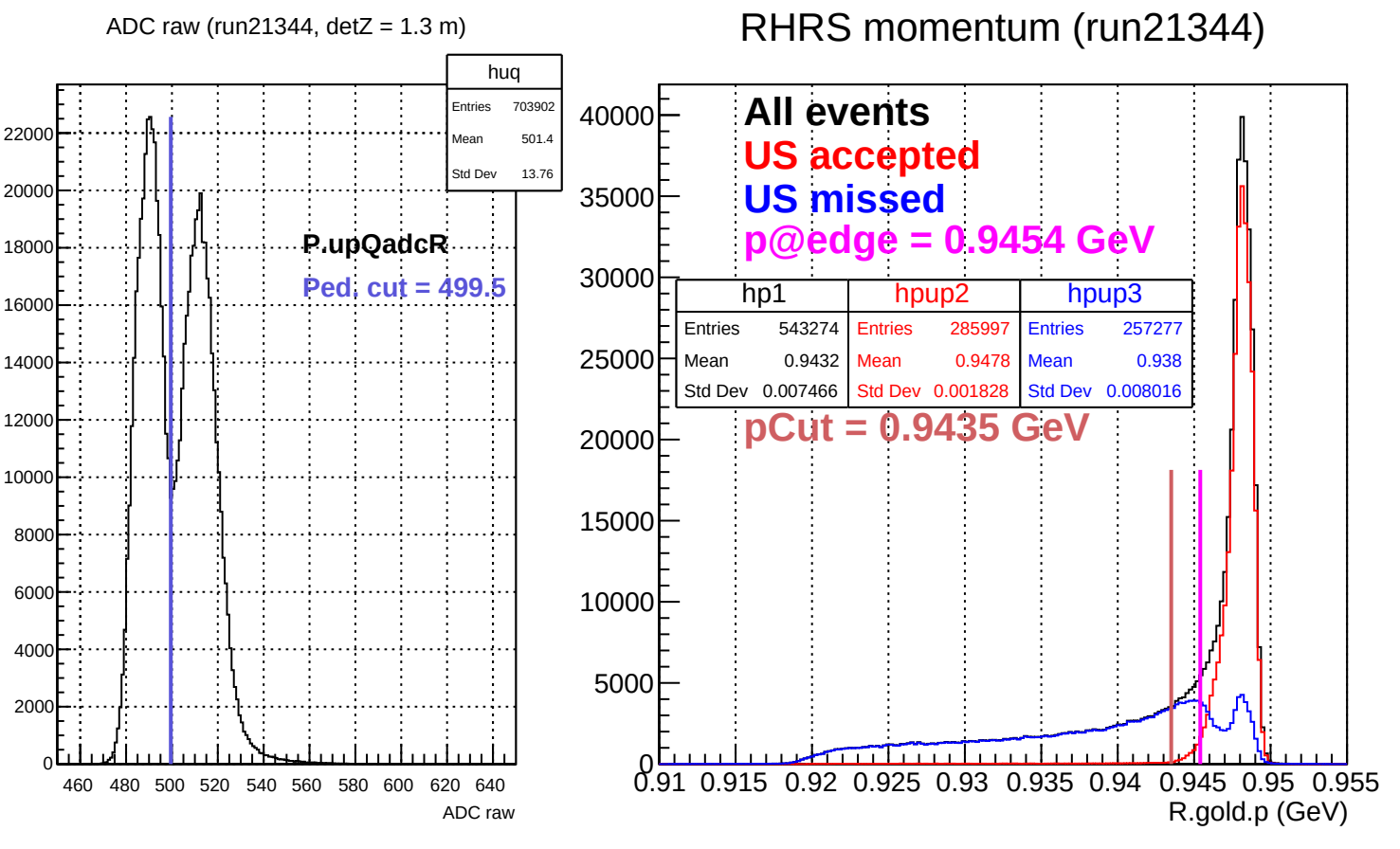

θlab (deg), pCut = 0.943 GeV
Theta
Entries 380932
Mean 4.785
Std Dev 0.4436
16000
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

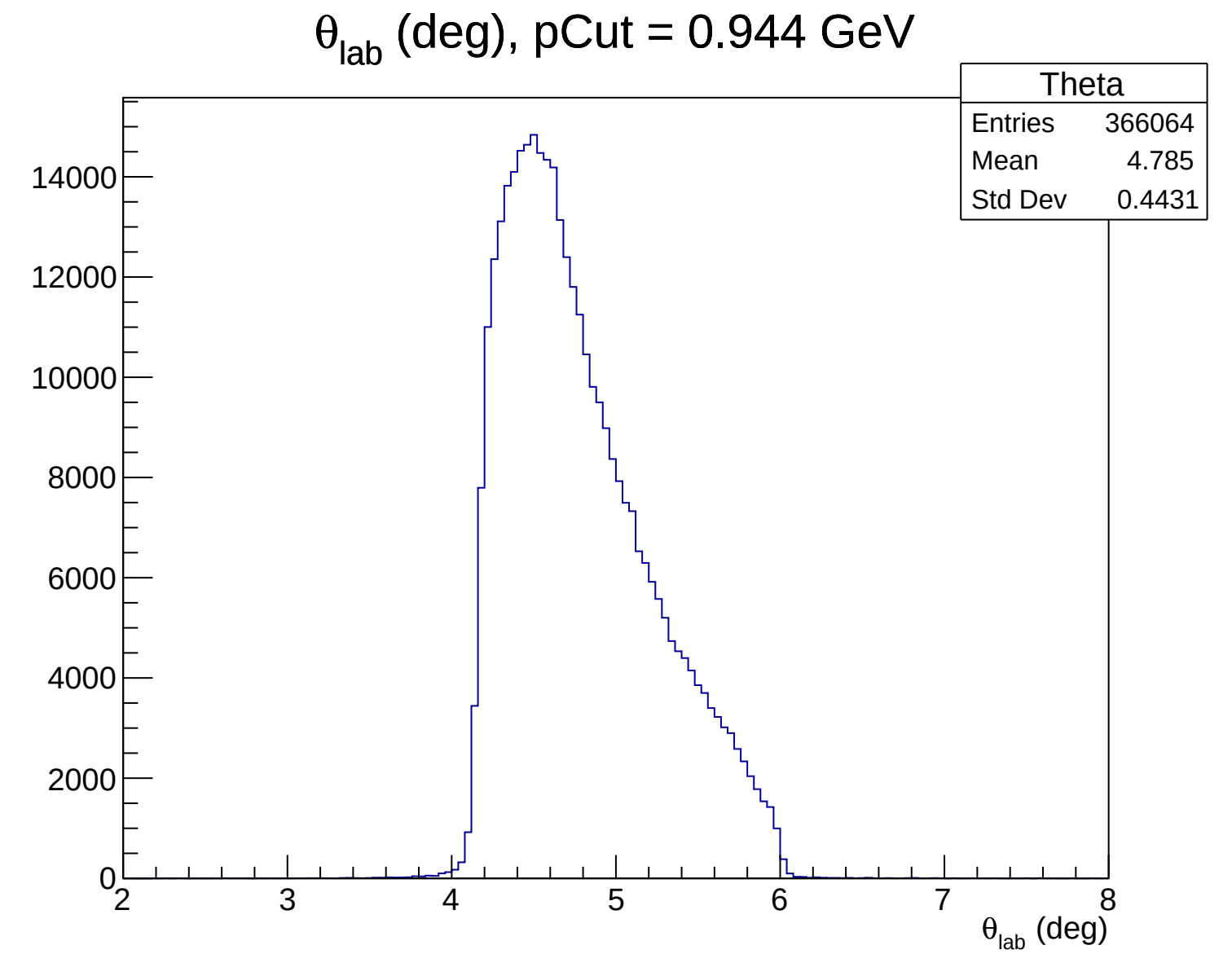

Asymmetry (ppm), pCut = 0.943 GeV
Asym
Entries 380932
Mean 0.5714
Std Dev 0.07835
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

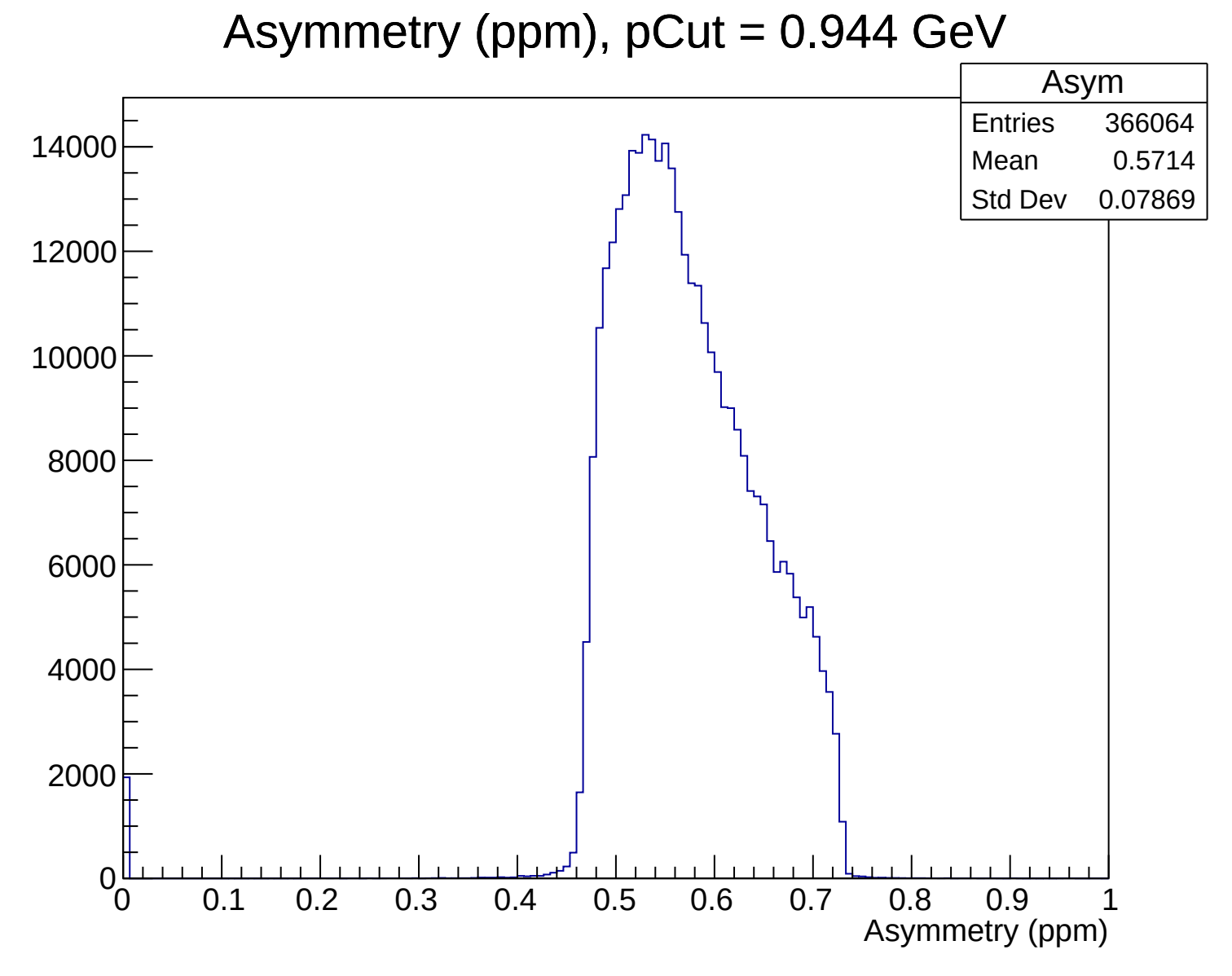

Stretched Asym. (ppm), pCut = 0.943 GeV
SAsym
Entries 380932
Mean 0.5584
Std Dev 0.07466
16000
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

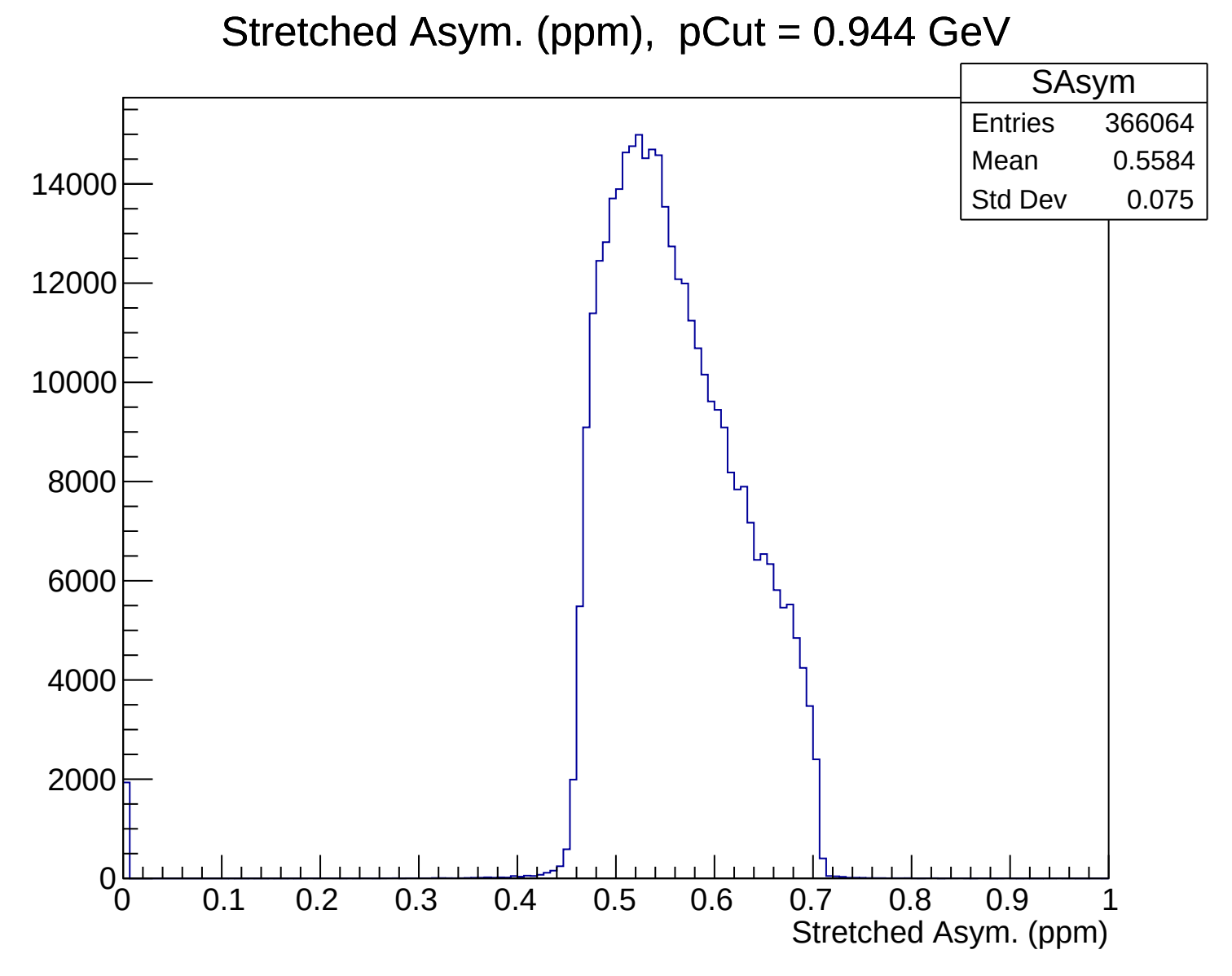

Q^2 (GeV/c)^2, pCut = 0.943 GeV
Q2
Entries 380932
Mean 0.006326
Std Dev 0.001199
16000
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

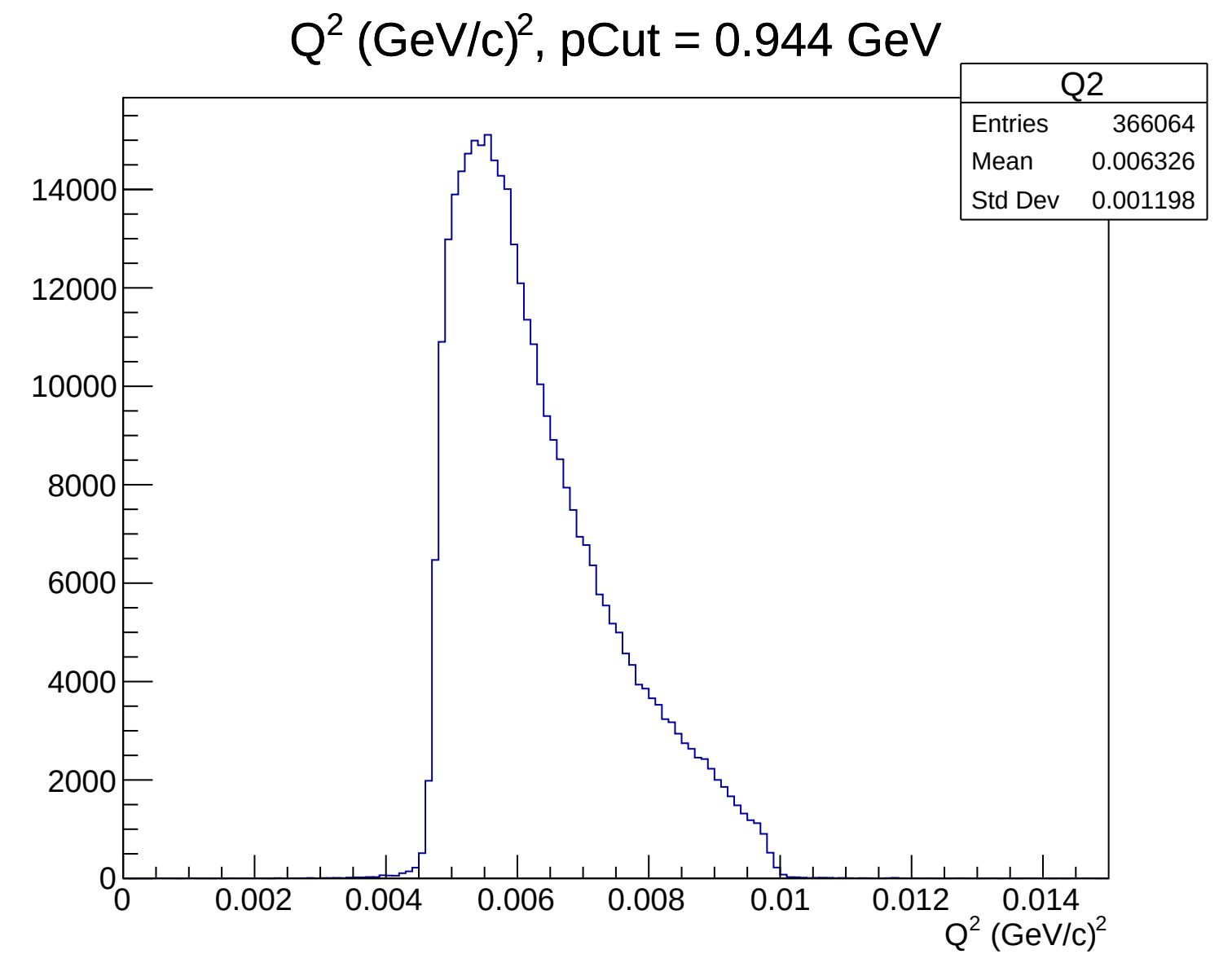

Sensitivity, pCut = 0.943 GeV
sens
Entries 380932
Mean 0.02227
Std Dev 0.003822
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

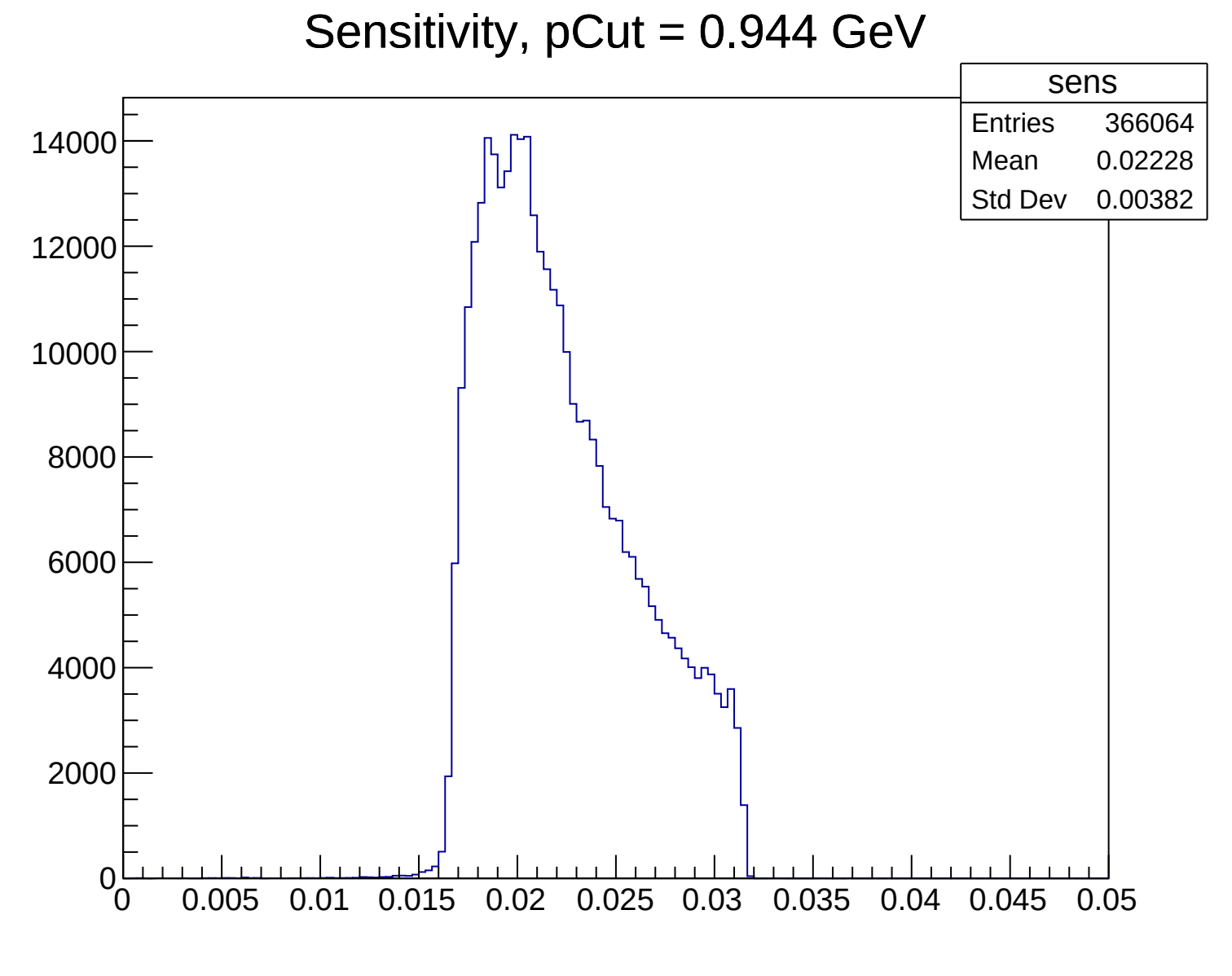

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9435 GeV
R.gold.p (GeV)

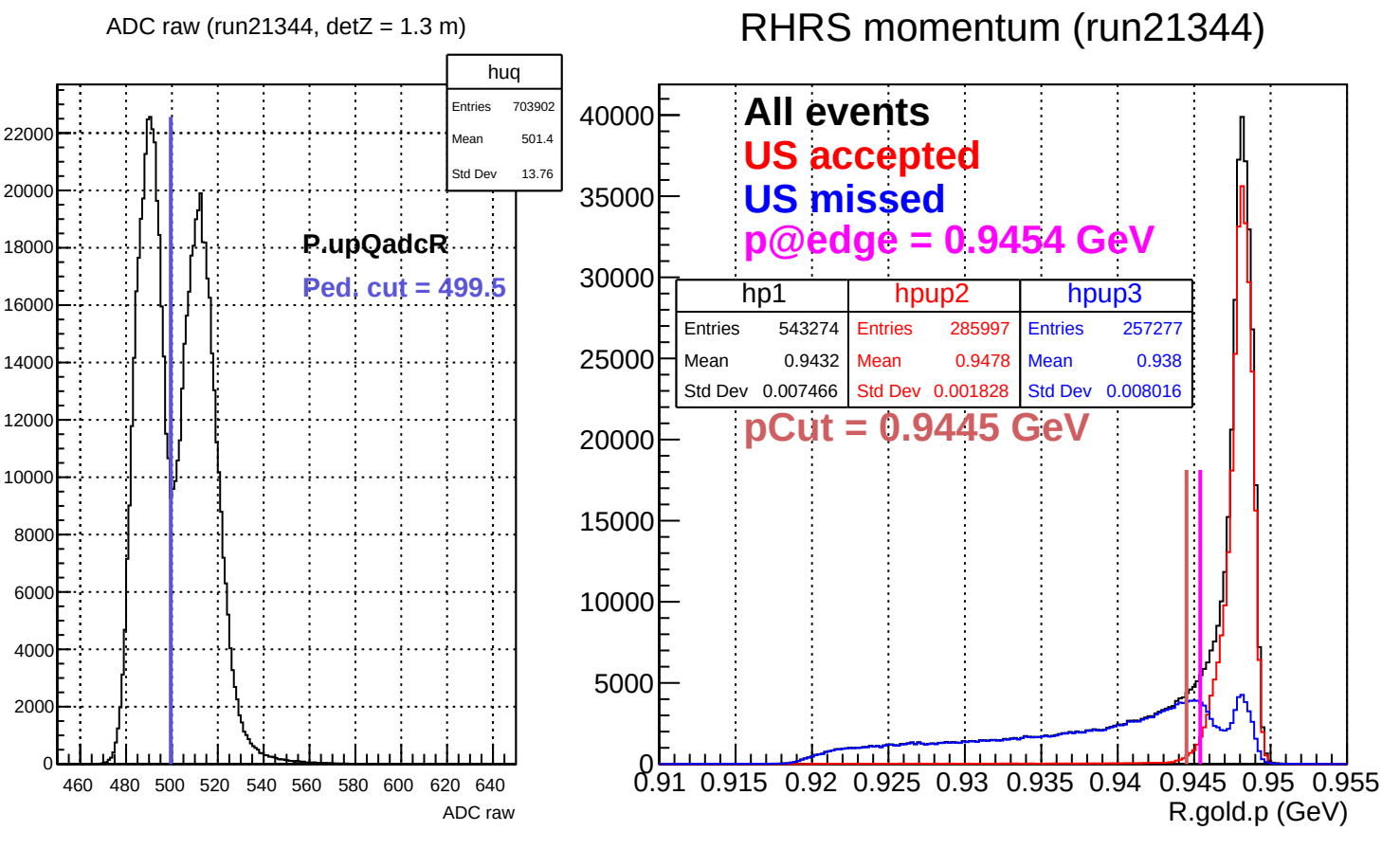

θlab (deg), pCut = 0.944 GeV
Theta
Entries 366064
Mean 4.785
Std Dev 0.4431
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

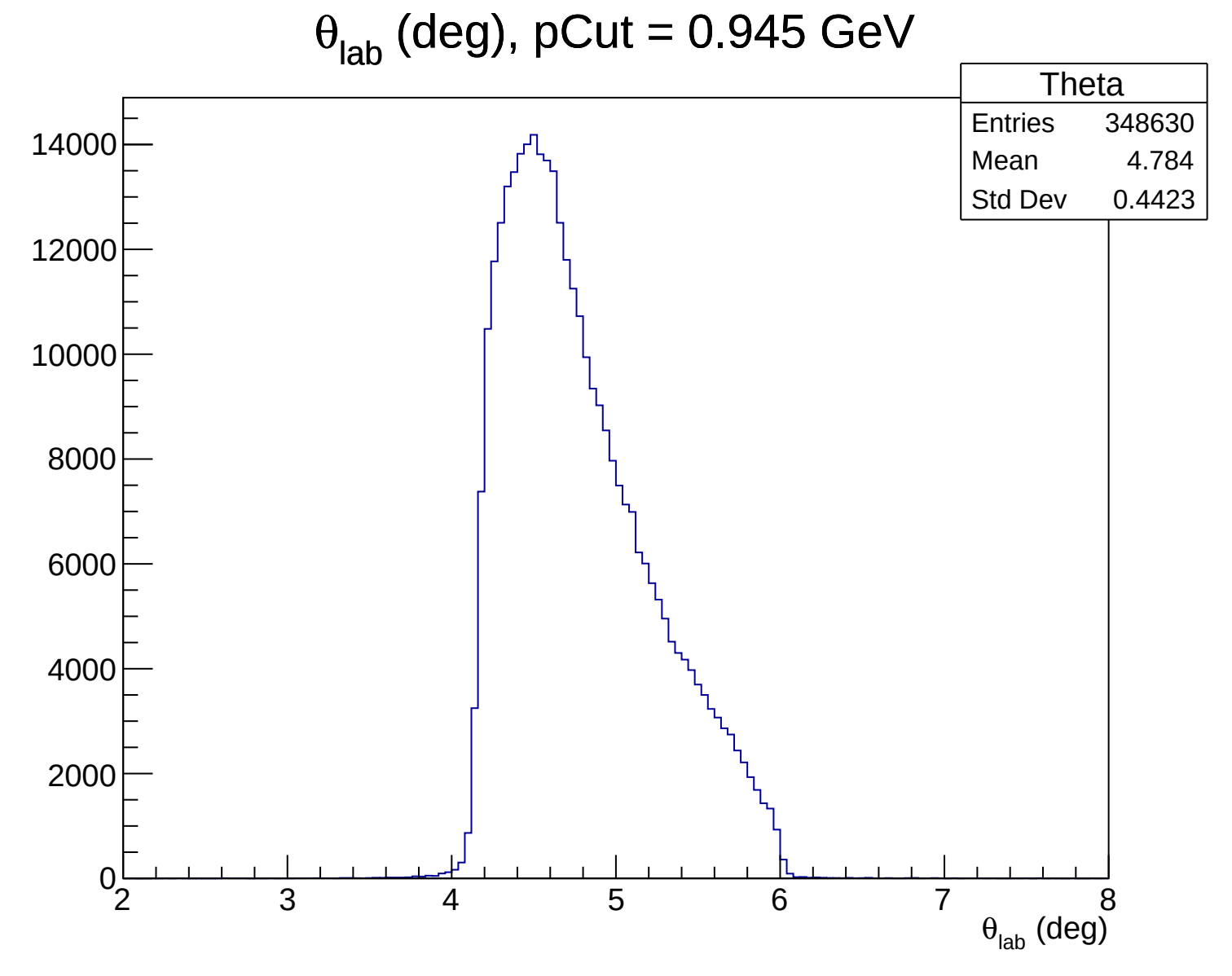

Asymmetry (ppm), pCut = 0.944 GeV
Asym
Entries 366064
Mean 0.5714
Std Dev 0.07869
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

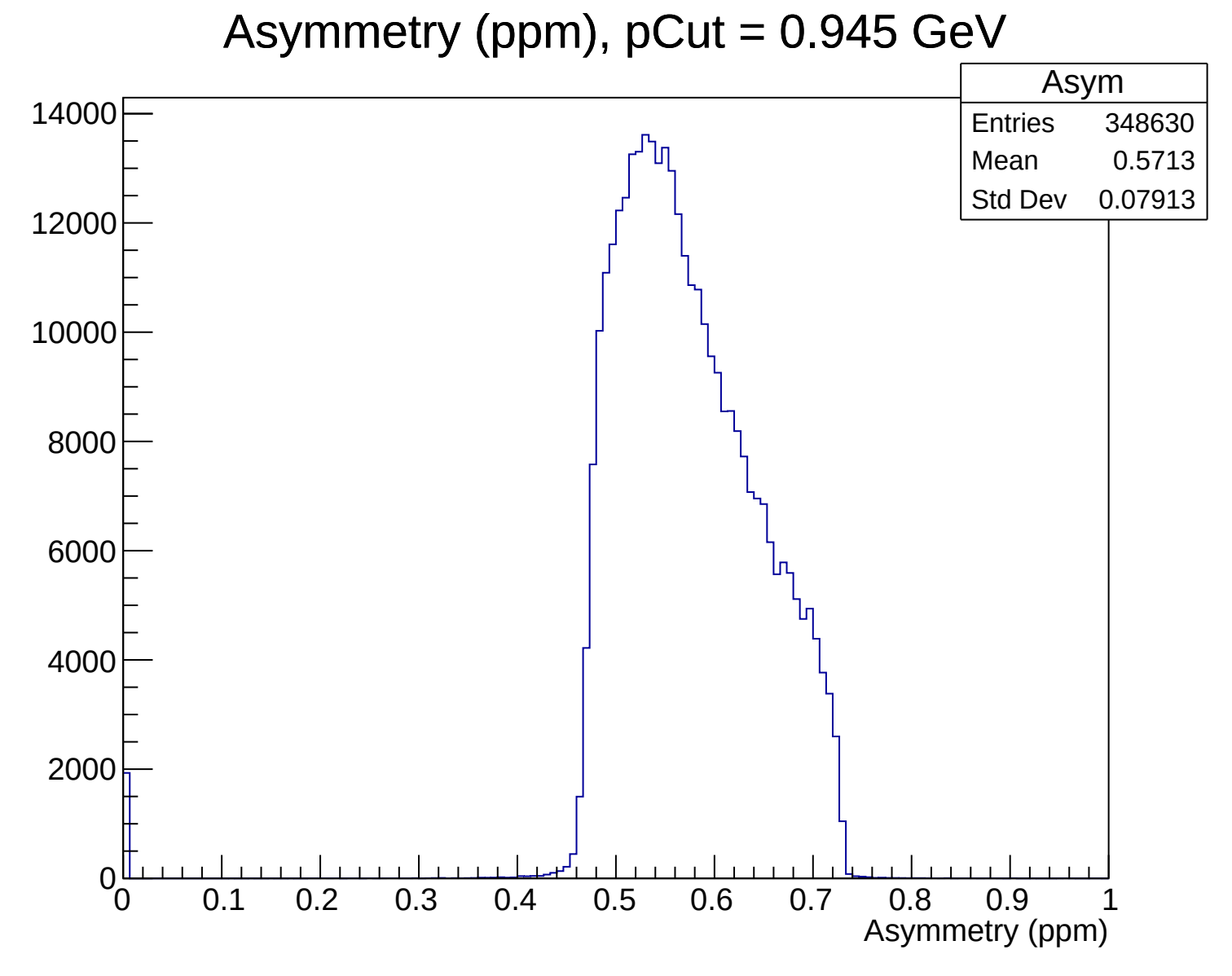

Stretched Asym. (ppm), pCut = 0.944 GeV
SAsym
Entries 366064
Mean 0.5584
Std Dev 0.075
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

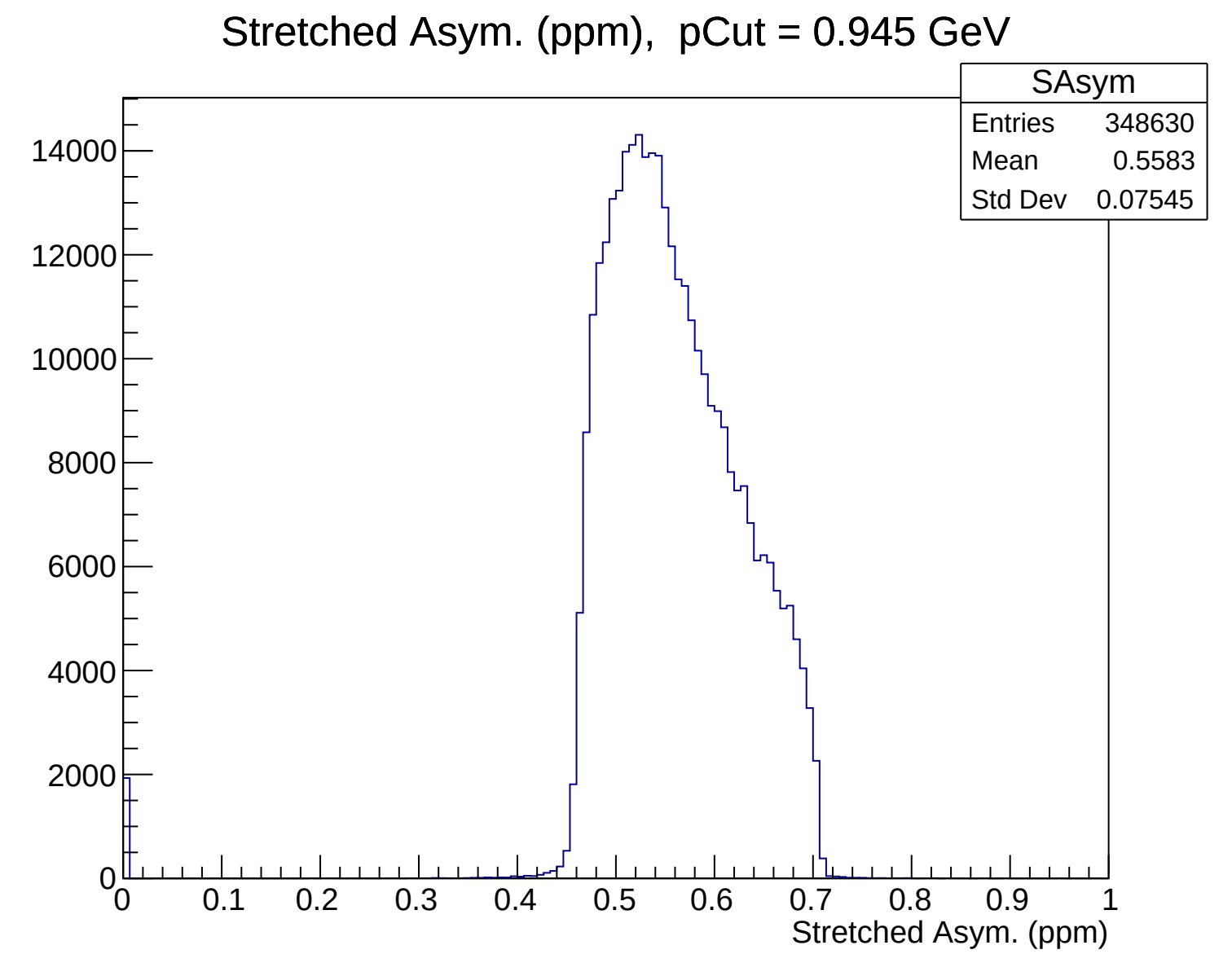

Q^2 (GeV/c)^2, pCut = 0.944 GeV
Q2
Entries 366064
Mean 0.006326
Std Dev 0.001198
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

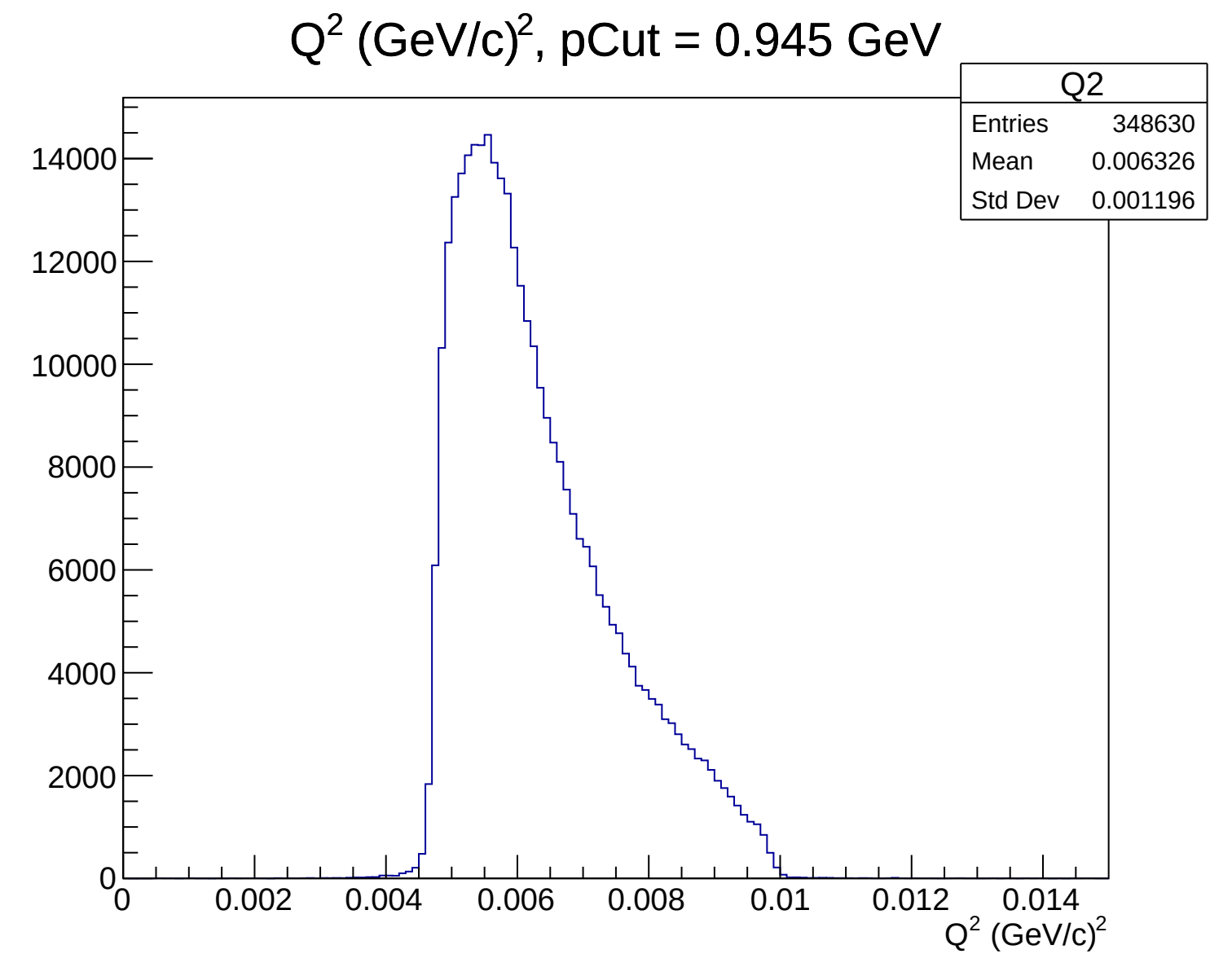

Sensitivity, pCut = 0.944 GeV
sens
Entries 366064
Mean 0.02228
Std Dev 0.00382
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

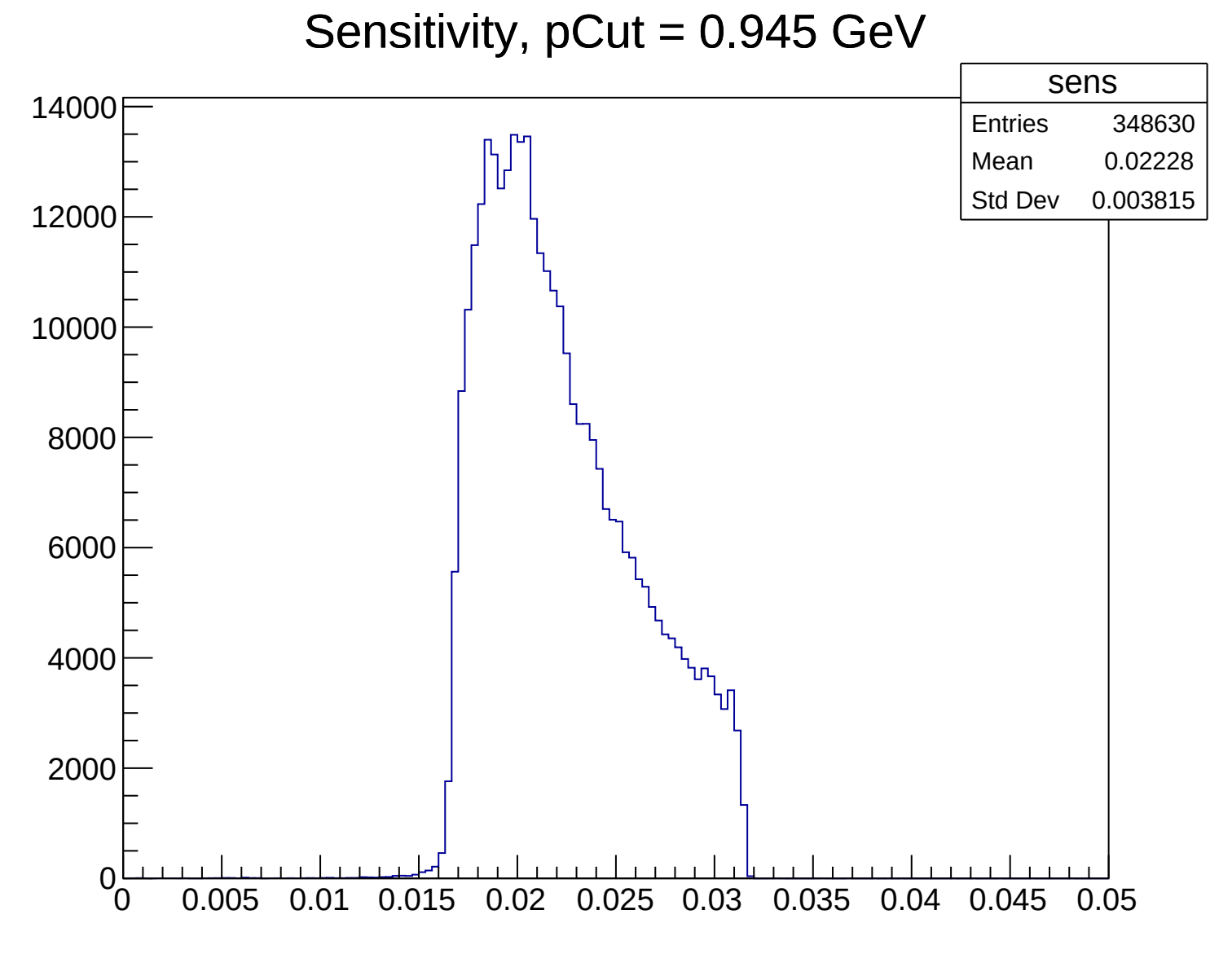

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9445 GeV
R.gold.p (GeV)

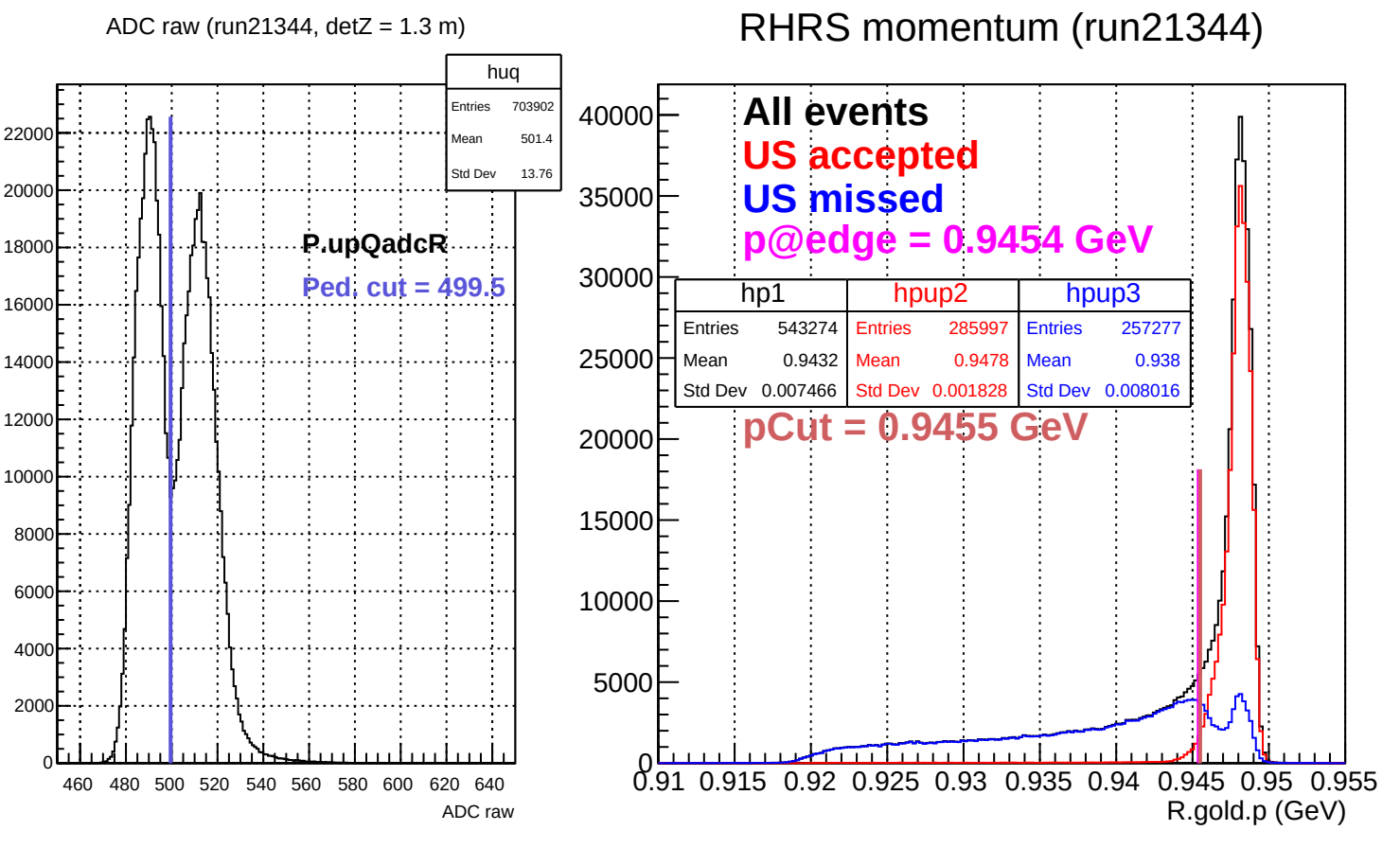

θlab (deg), pCut = 0.945 GeV
Theta
Entries 348630
Mean 4.784
Std Dev 0.4423
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

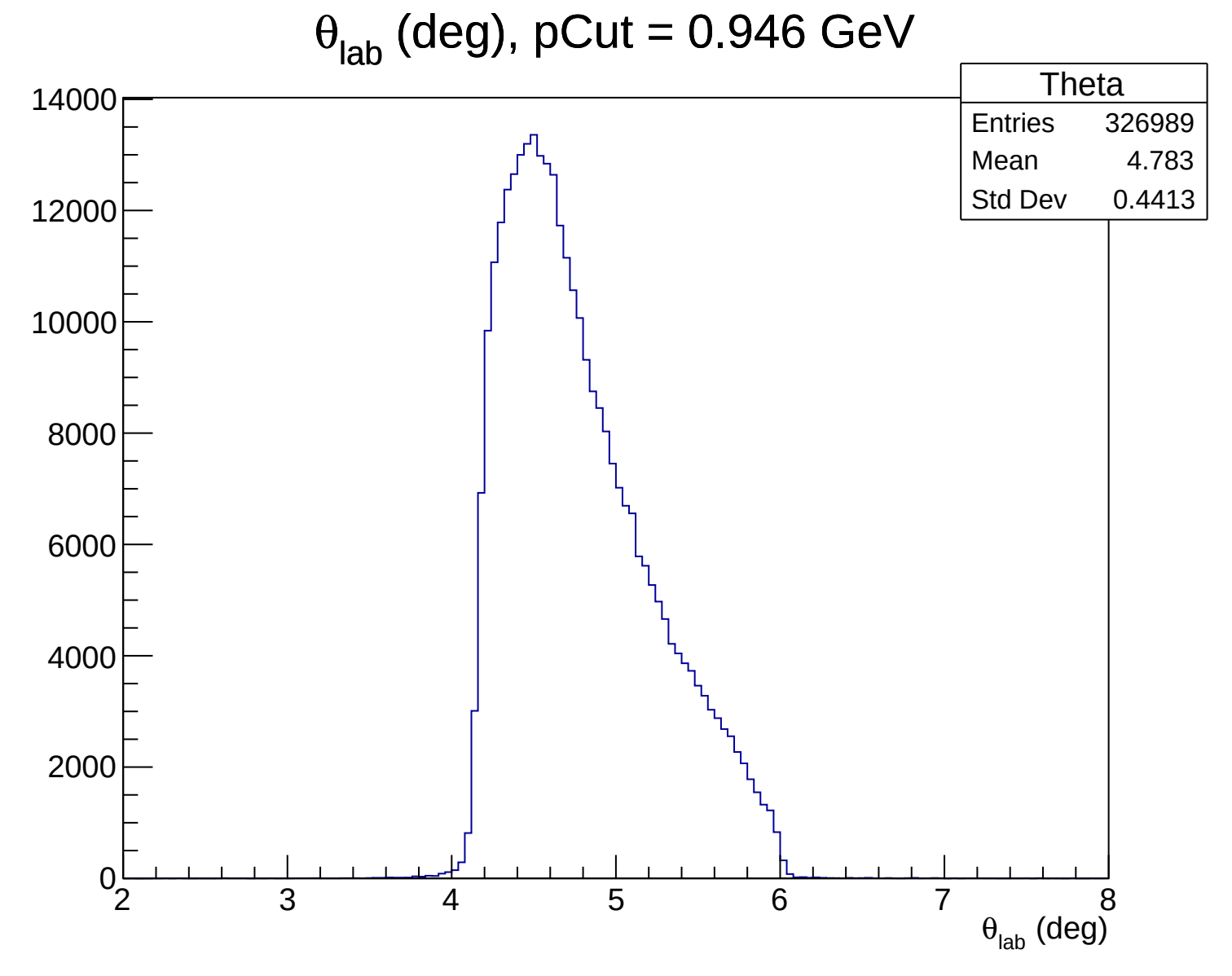

Asymmetry (ppm), pCut = 0.945 GeV
Asym
Entries 348630
Mean 0.5713
Std Dev 0.07913
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

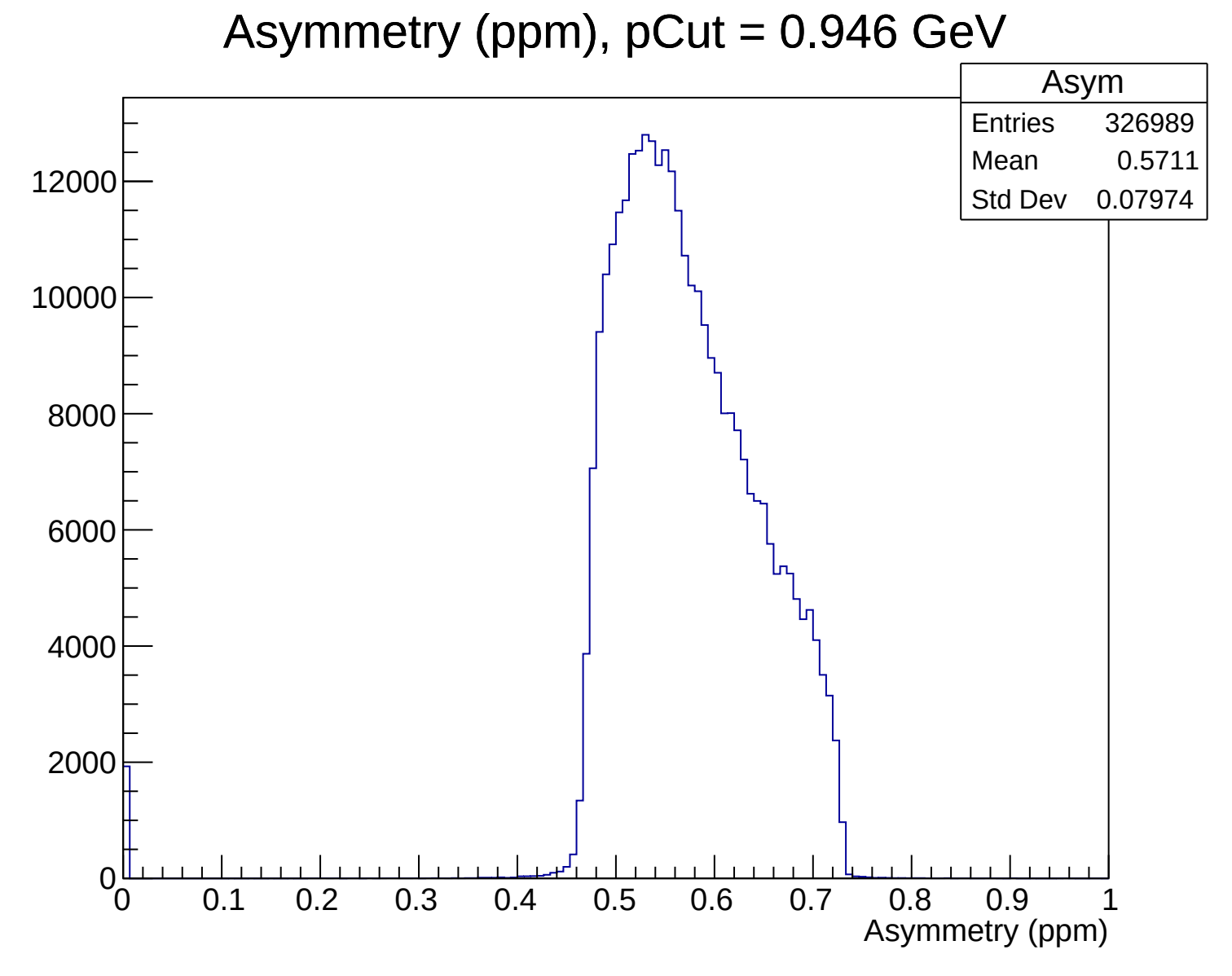

Stretched Asym. (ppm), pCut = 0.945 GeV
SAsym
Entries 348630
Mean 0.5583
Std Dev 0.07545
14000
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

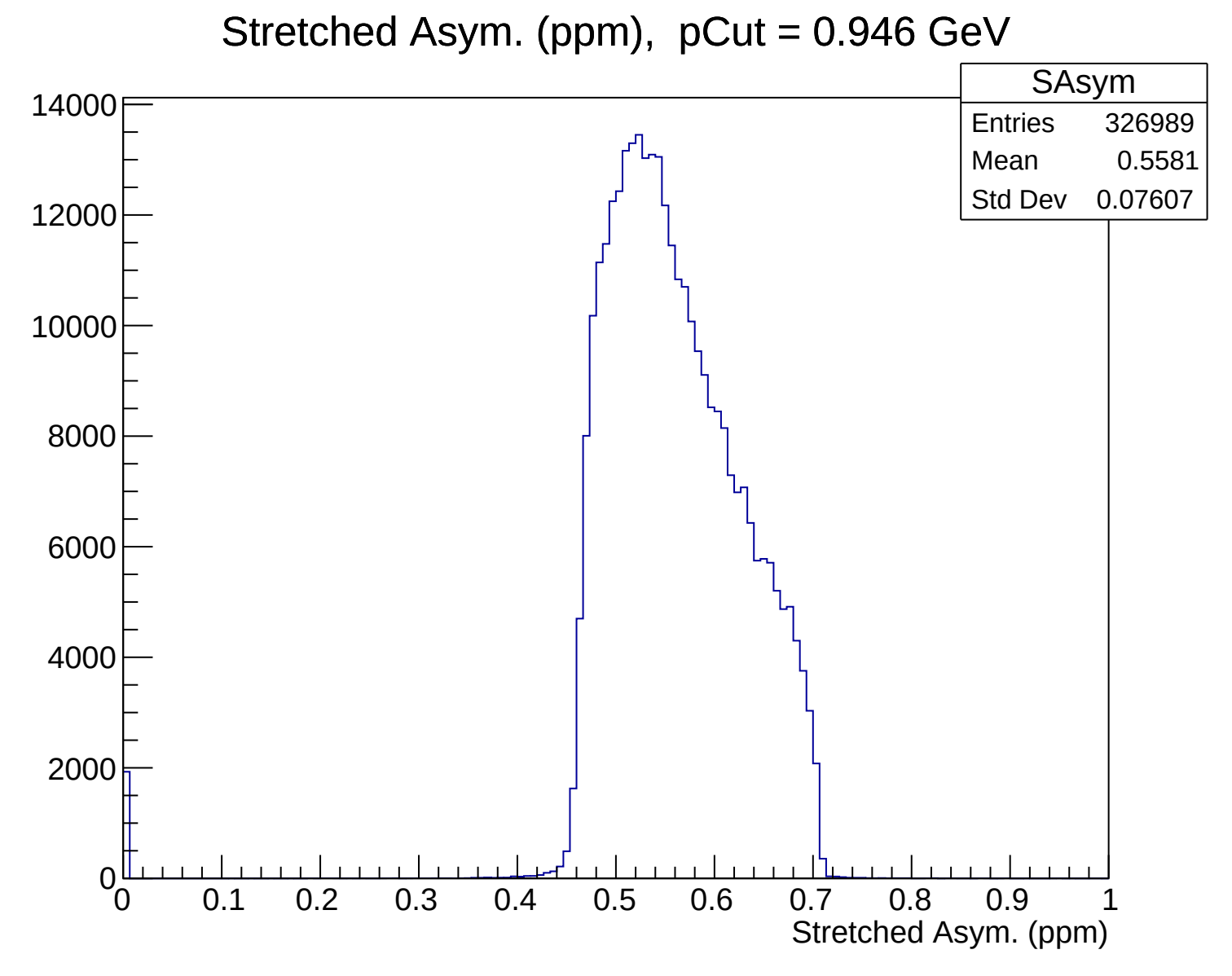

Q^2 (GeV/c)^2, pCut = 0.945 GeV
Q2
Entries 348630
Mean 0.006326
Std Dev 0.001196
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

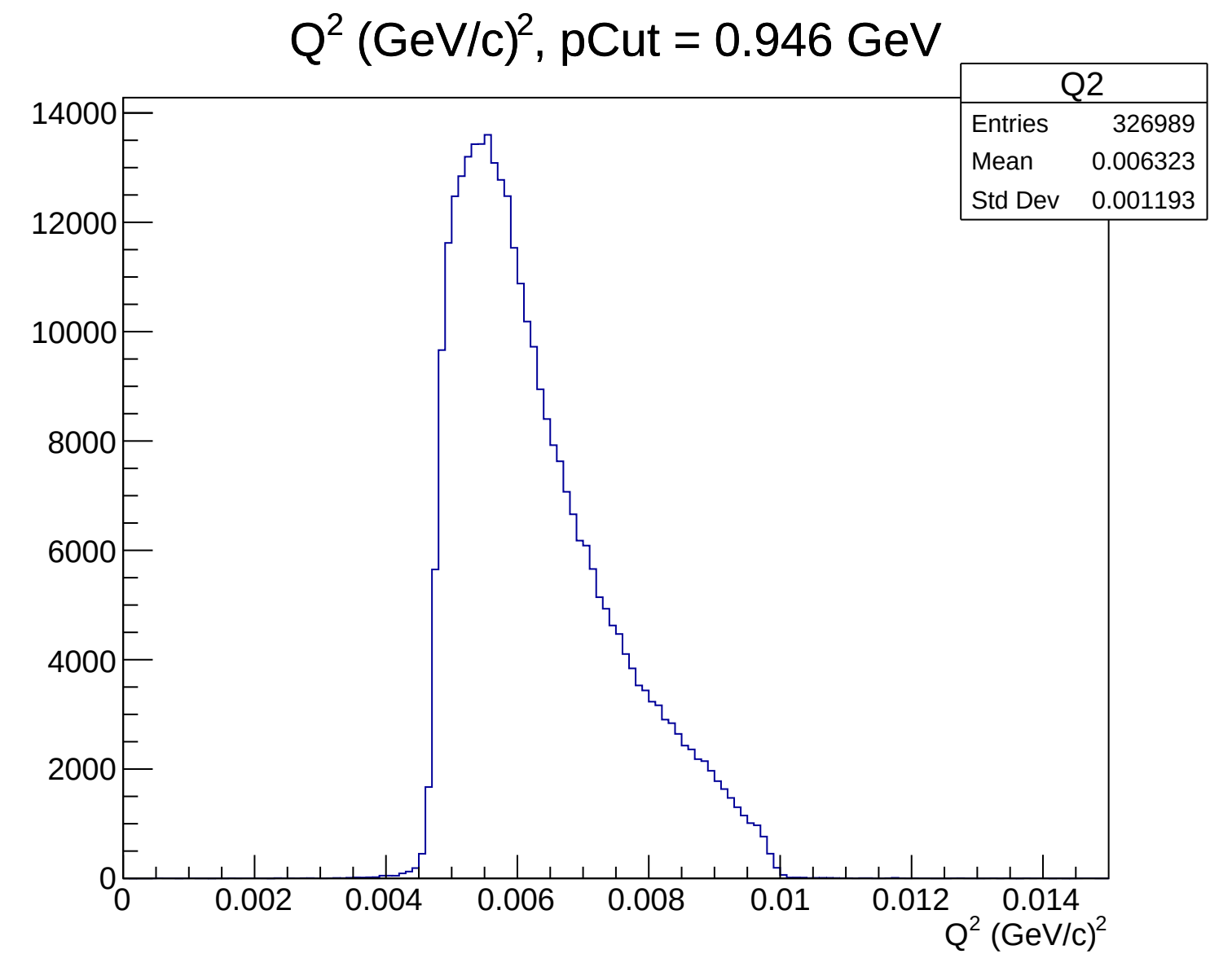

Sensitivity, pCut = 0.945 GeV
sens
Entries 348630
Mean 0.02228
Std Dev 0.003815
14000
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

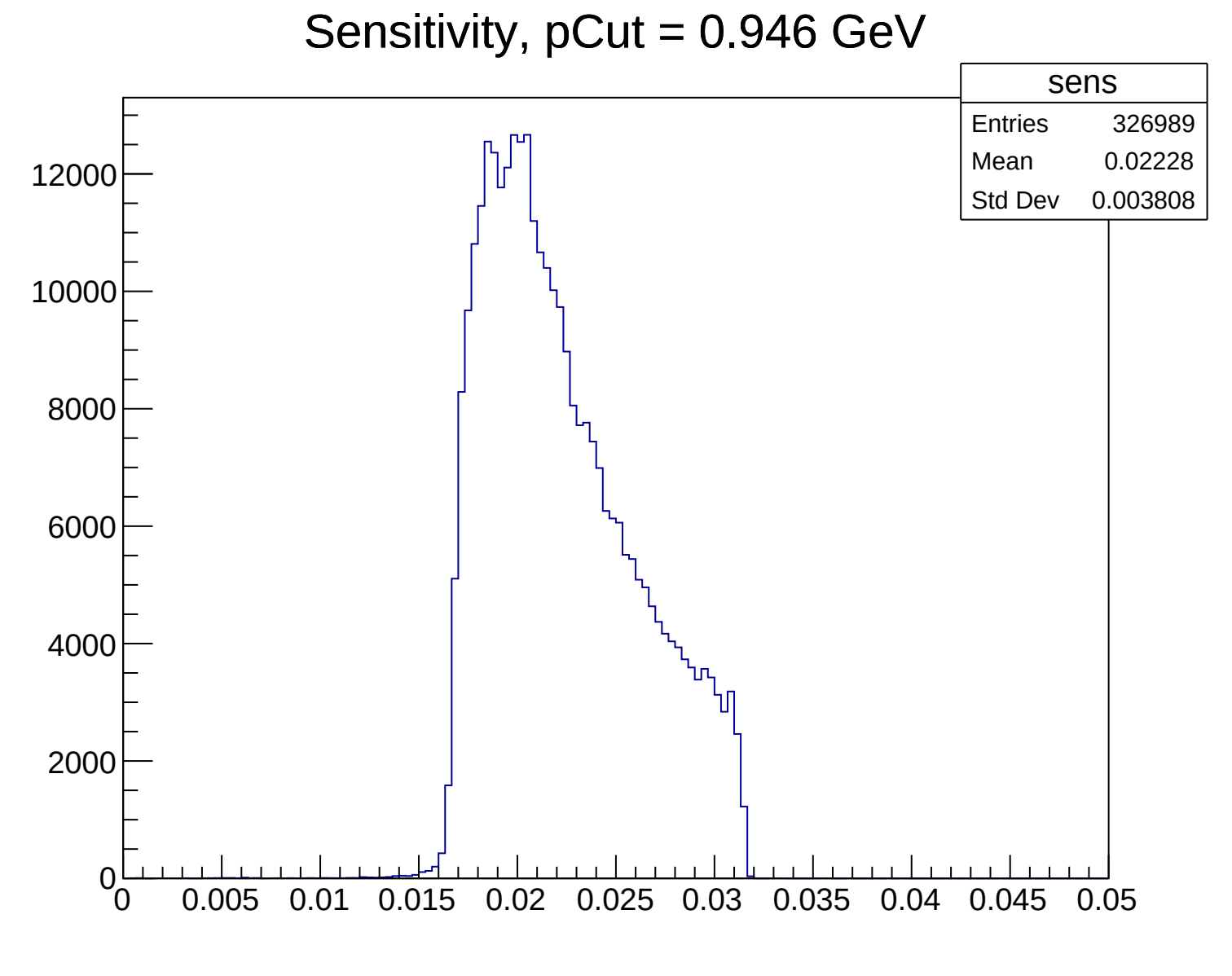

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9455 GeV
R.gold.p (GeV)

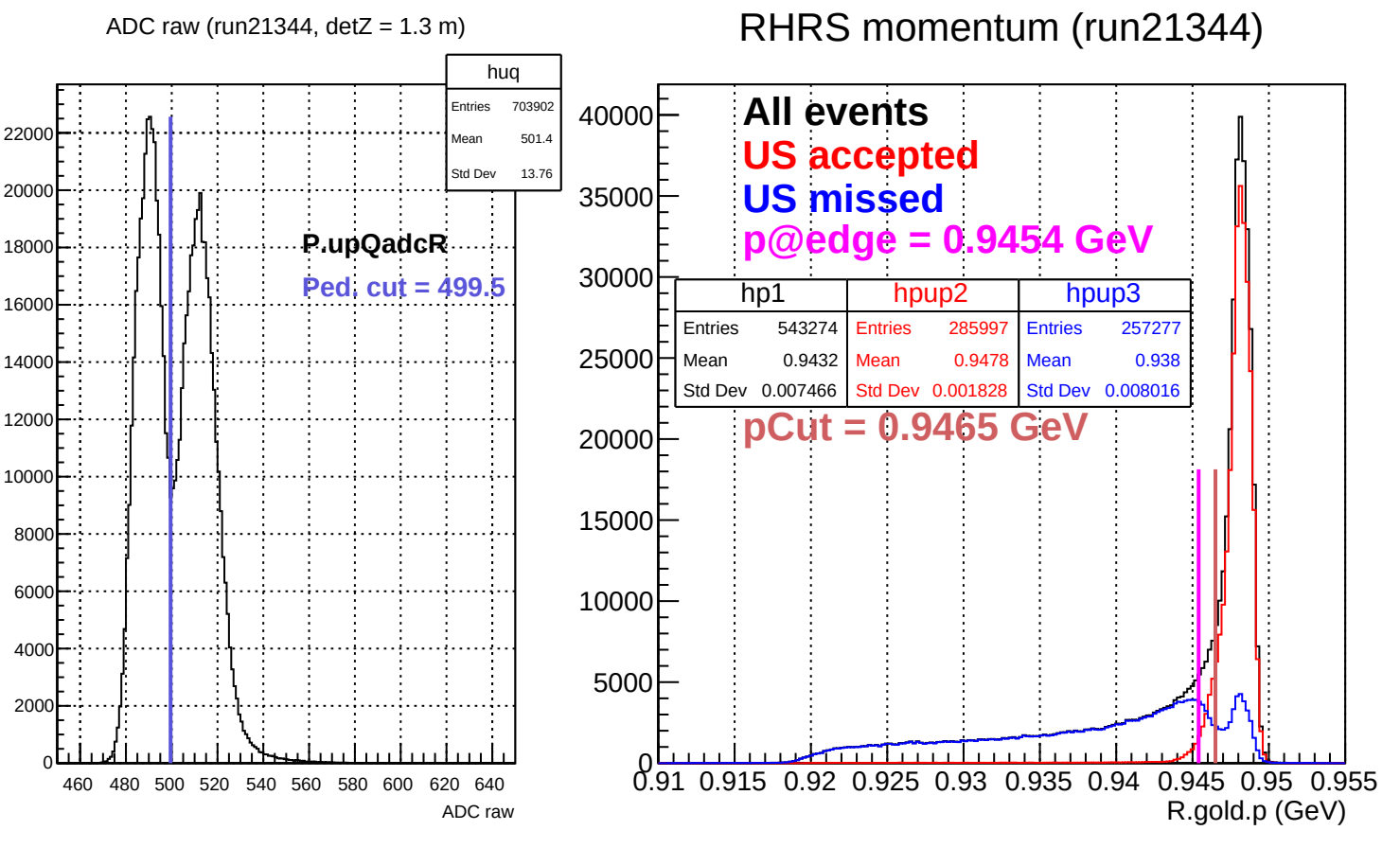

θlab (deg), pCut = 0.946 GeV
Theta
Entries 326989
Mean 4.783
Std Dev 0.4413
14000
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

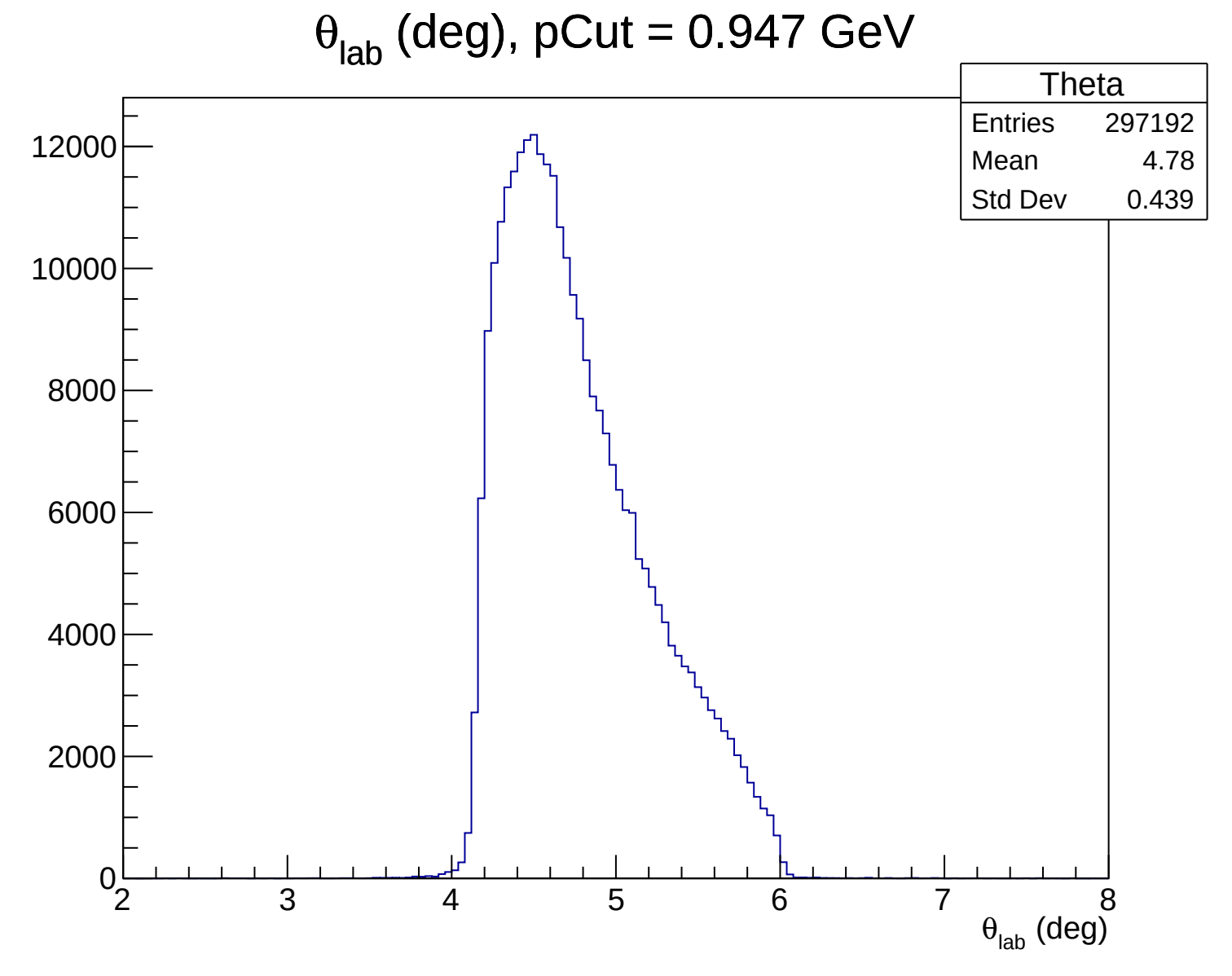

Asymmetry (ppm), pCut = 0.946 GeV
Asym
Entries 326989
Mean 0.5711
Std Dev 0.07974
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

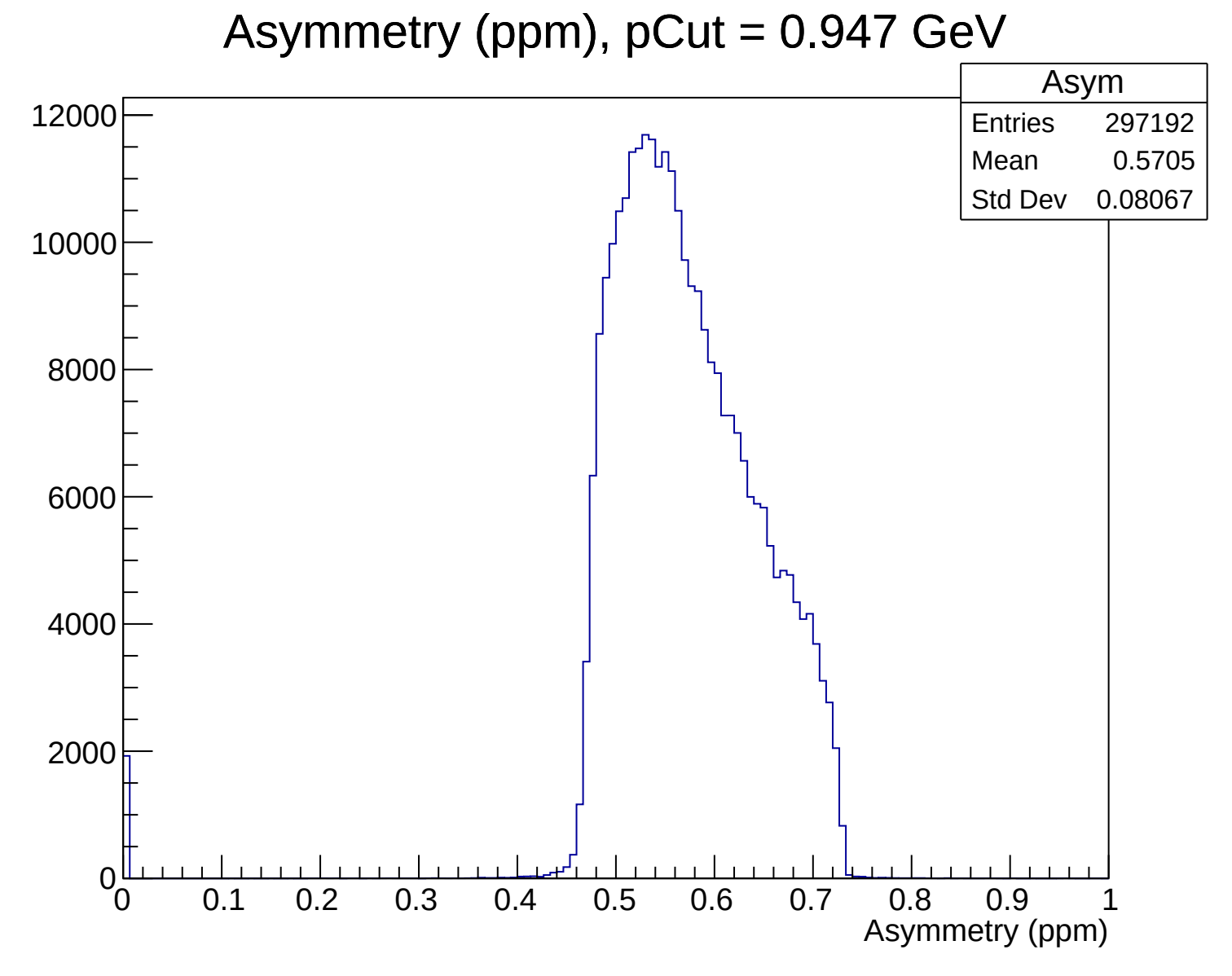

Stretched Asym. (ppm), pCut = 0.946 GeV
SAsym
Entries 326989
Mean 0.5581
Std Dev 0.07607
14000
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

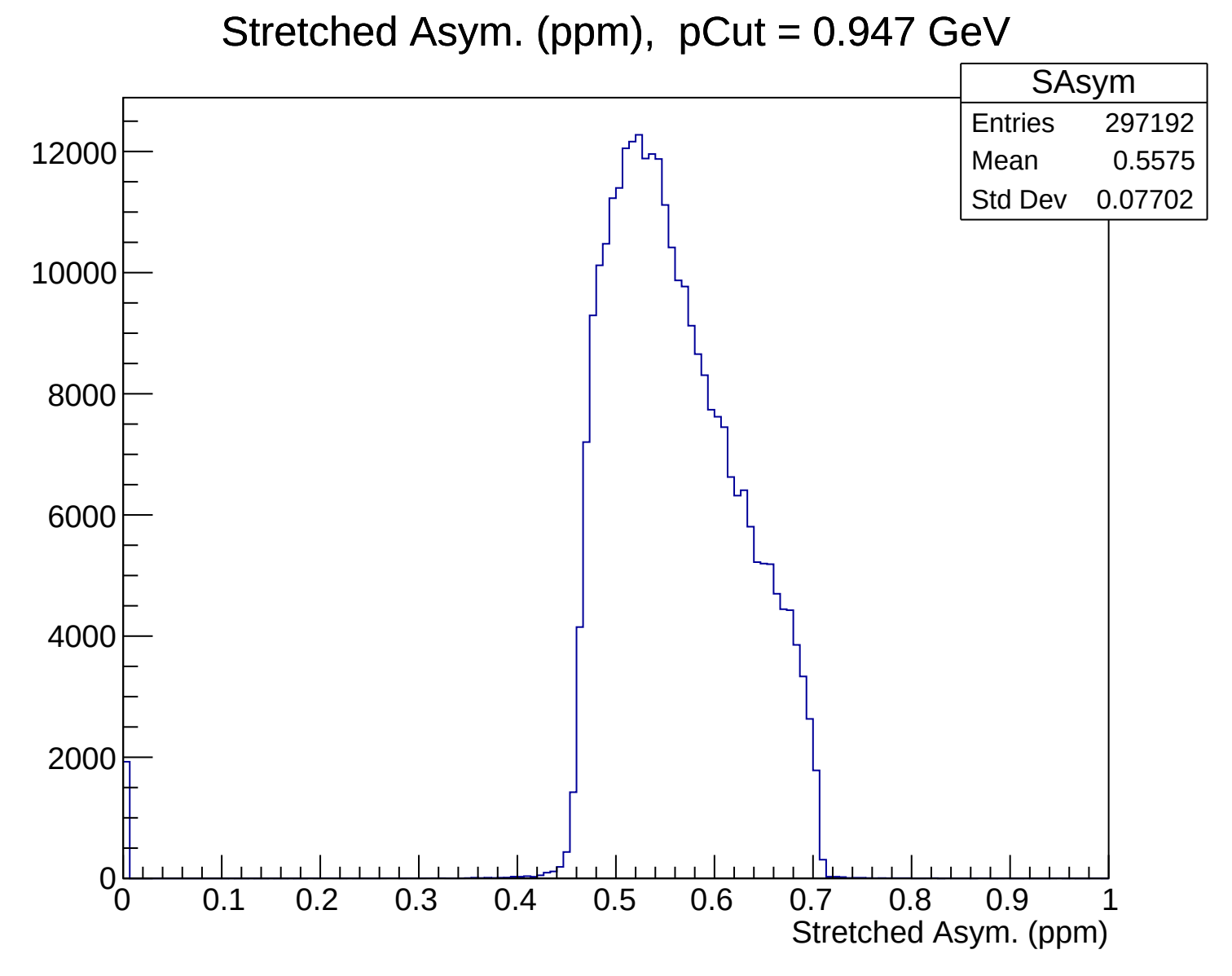

Q^2 (GeV/c)^2, pCut = 0.946 GeV
Q2
Entries 326989
Mean 0.006323
Std Dev 0.001193
14000
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

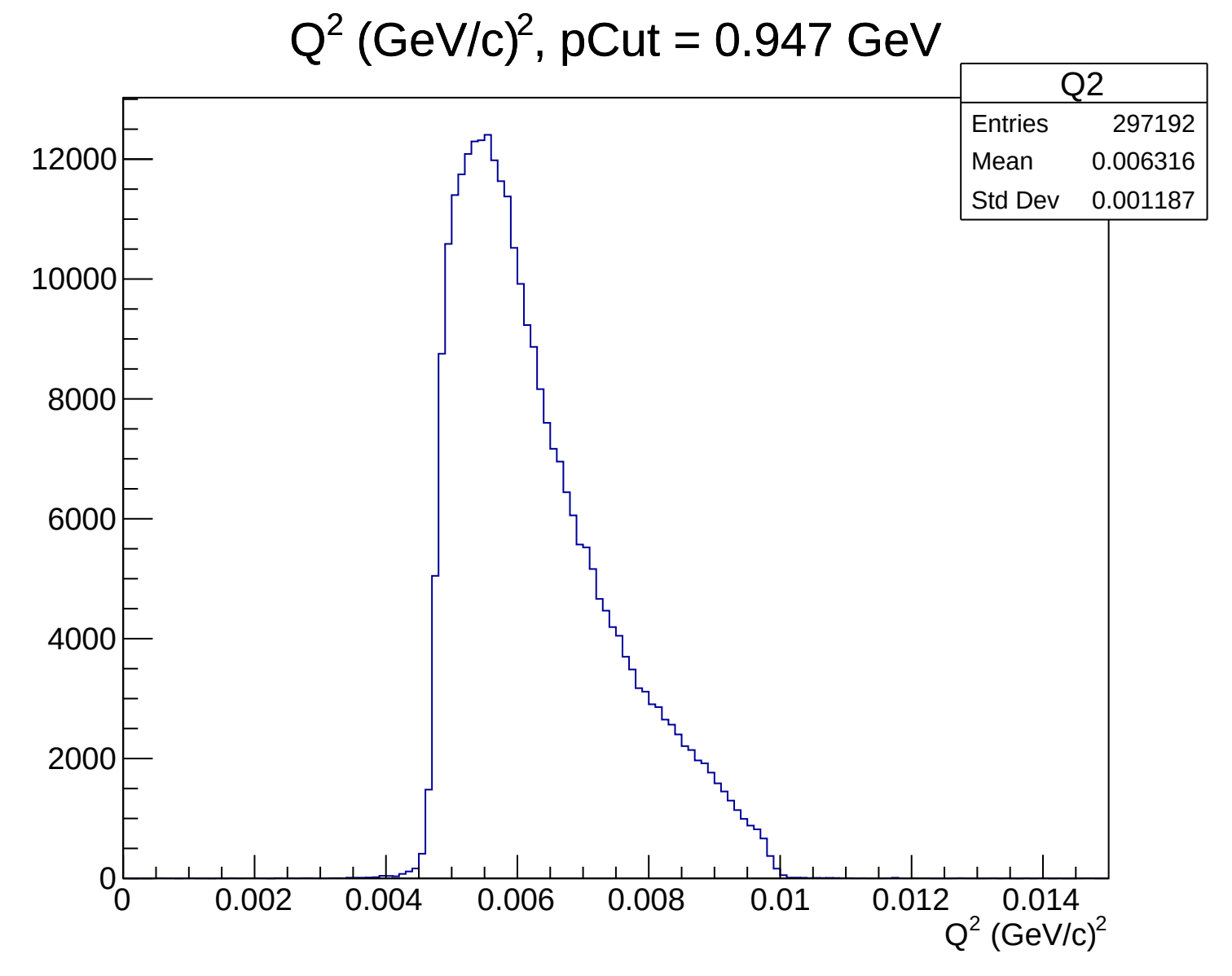

Sensitivity, pCut = 0.946 GeV
sens
Entries 326989
Mean 0.02228
Std Dev 0.003808
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

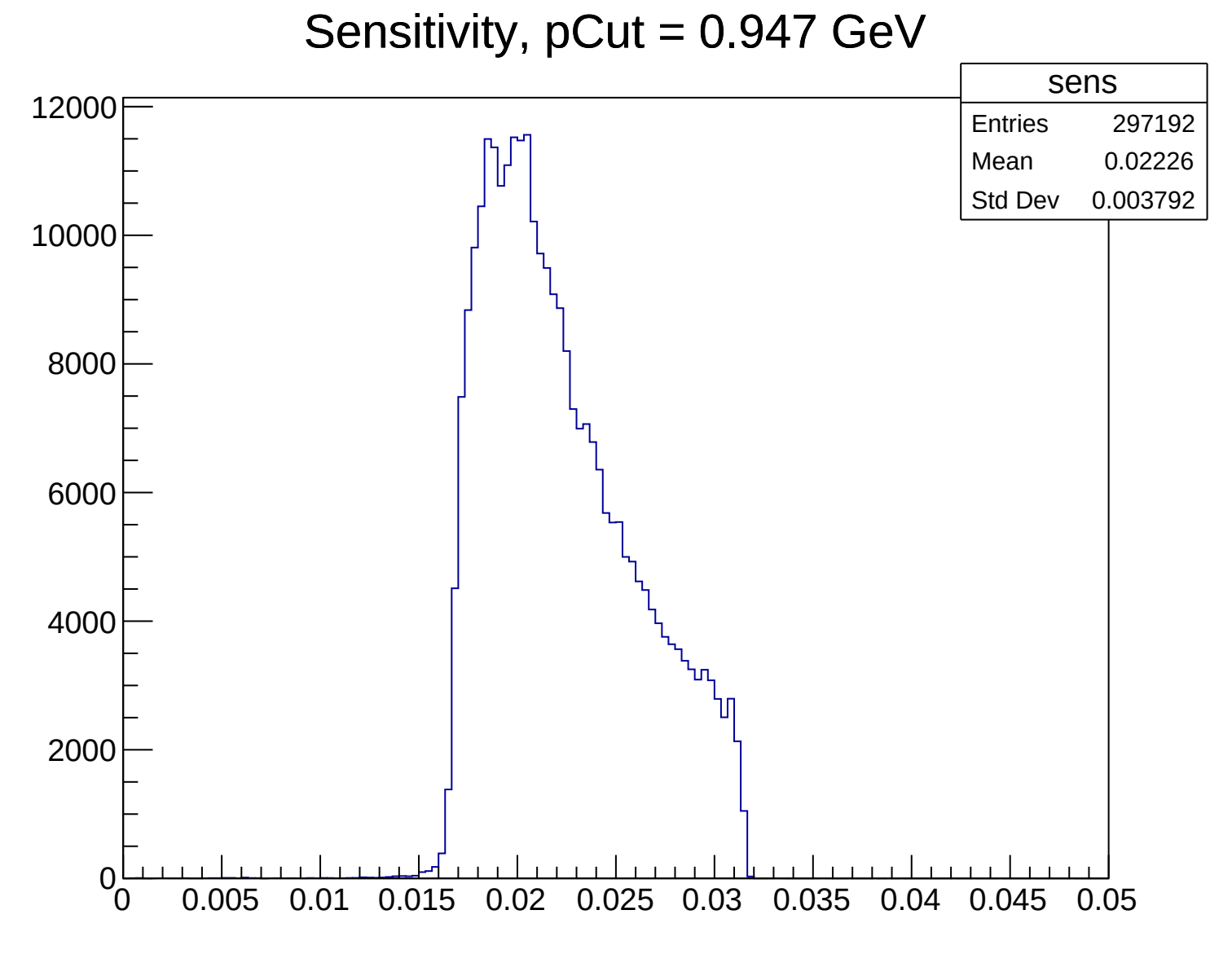

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9465 GeV
R.gold.p (GeV)

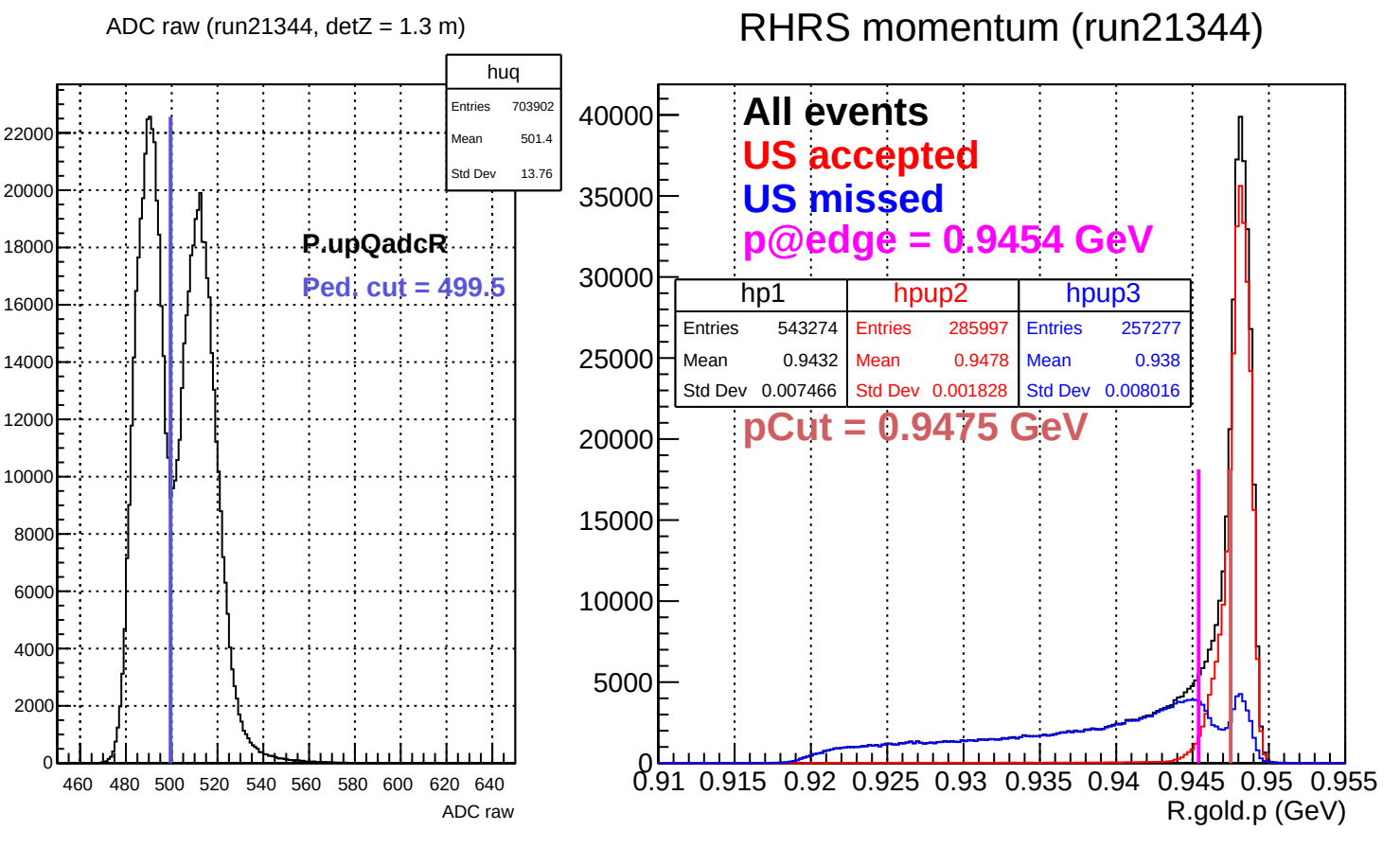

θlab (deg), pCut = 0.947 GeV
Theta
Entries 297192
Mean 4.78
Std Dev 0.439
12000
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

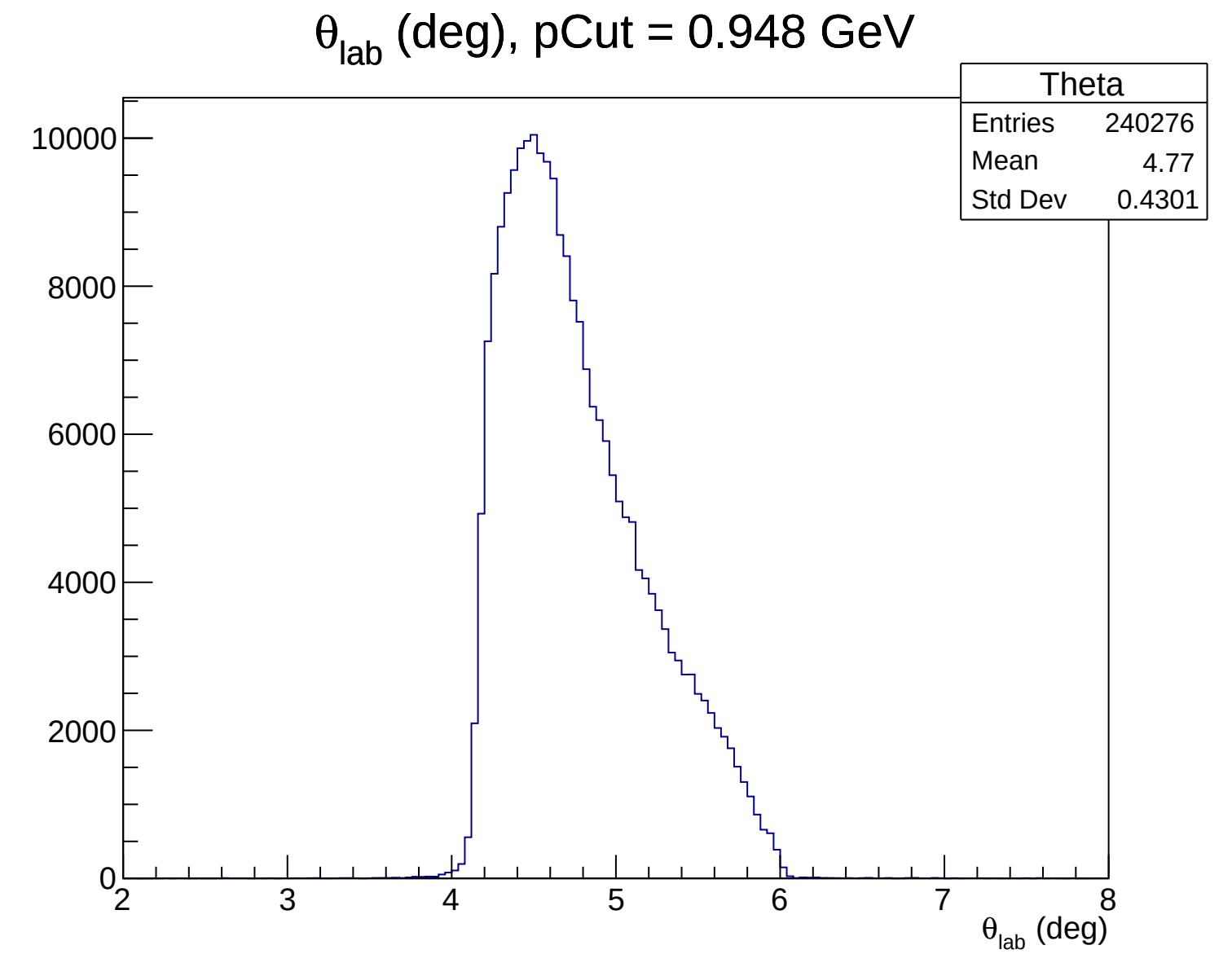

Asymmetry (ppm), pCut = 0.947 GeV
Asym
Entries 297192
Mean 0.5705
Std Dev 0.08067
12000
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

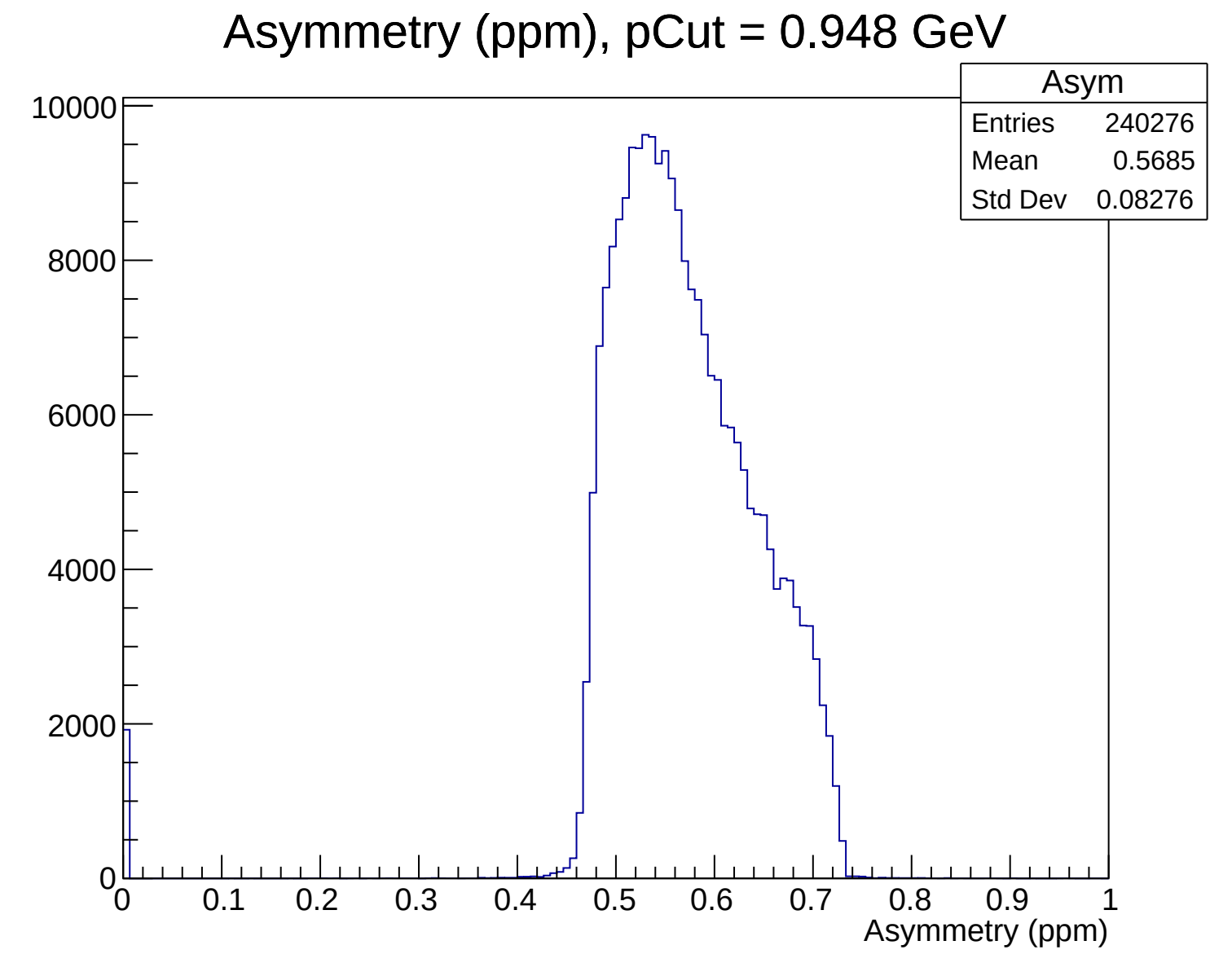

Stretched Asym. (ppm), pCut = 0.947 GeV
SAsym
Entries 297192
Mean 0.5575
Std Dev 0.07702
12000
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

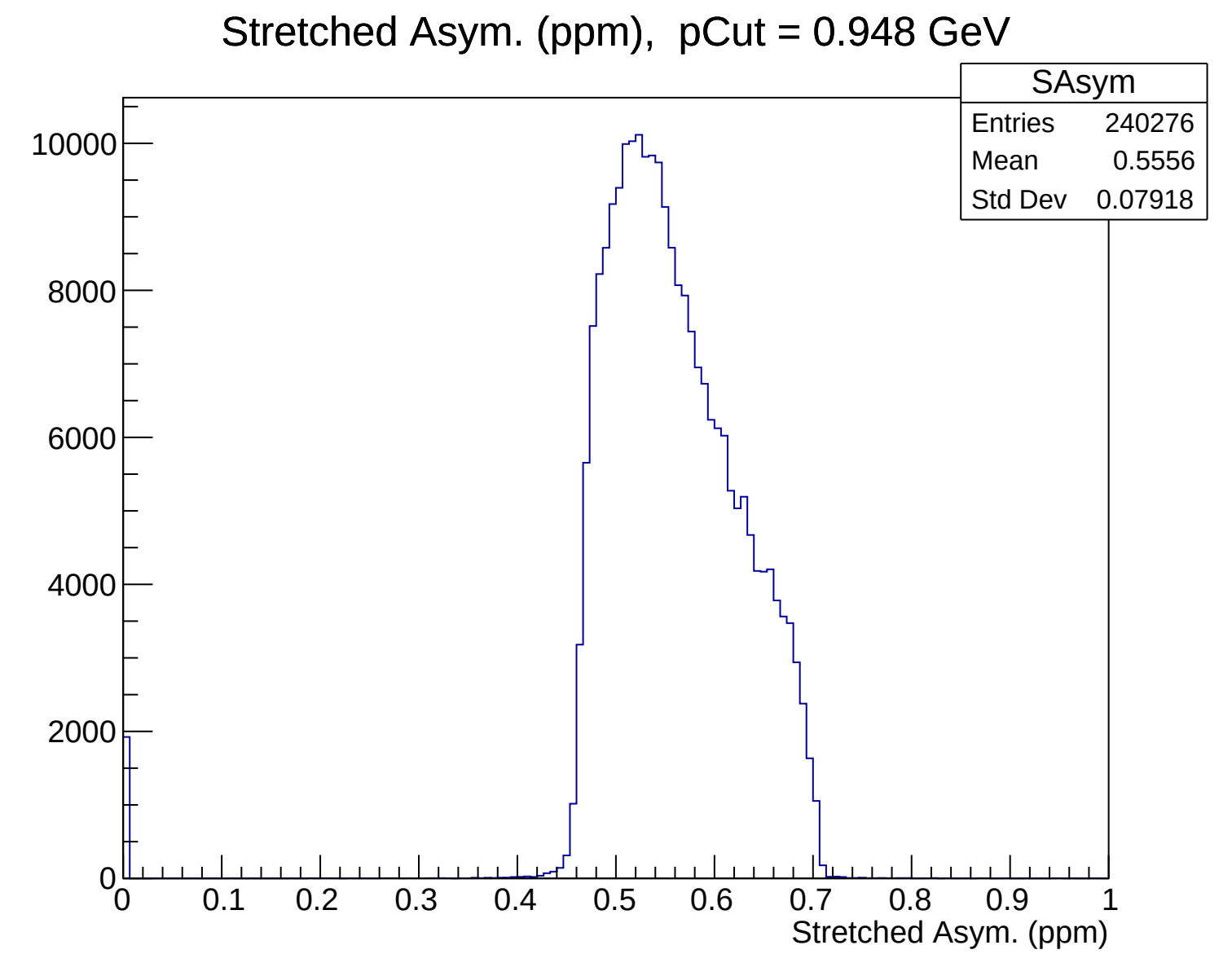

Q^2 (GeV/c)^2, pCut = 0.947 GeV
Q2
Entries 297192
Mean 0.006316
Std Dev 0.001187
12000
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

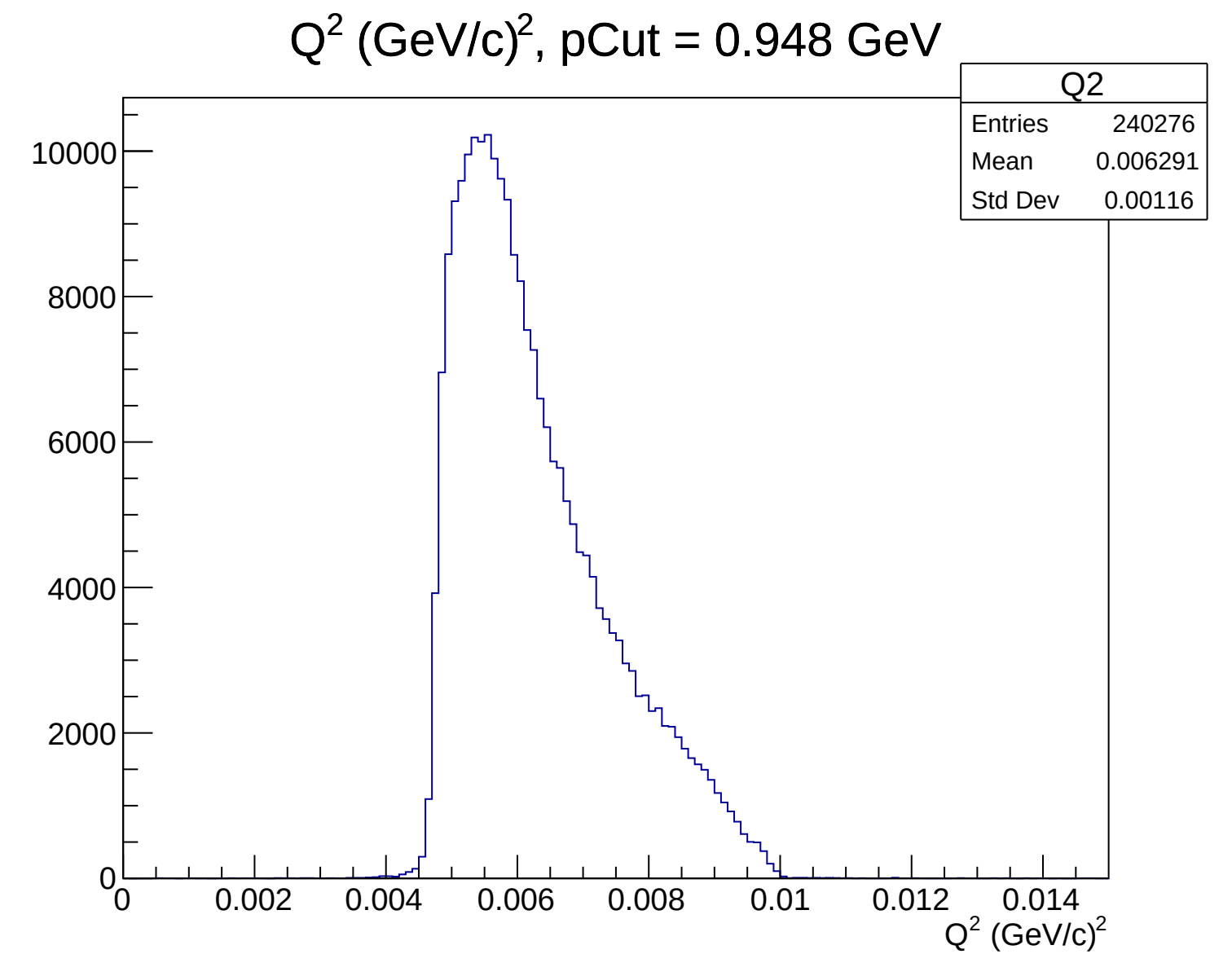

Sensitivity, pCut = 0.947 GeV
sens
Entries 297192
Mean 0.02226
Std Dev 0.003792
12000
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

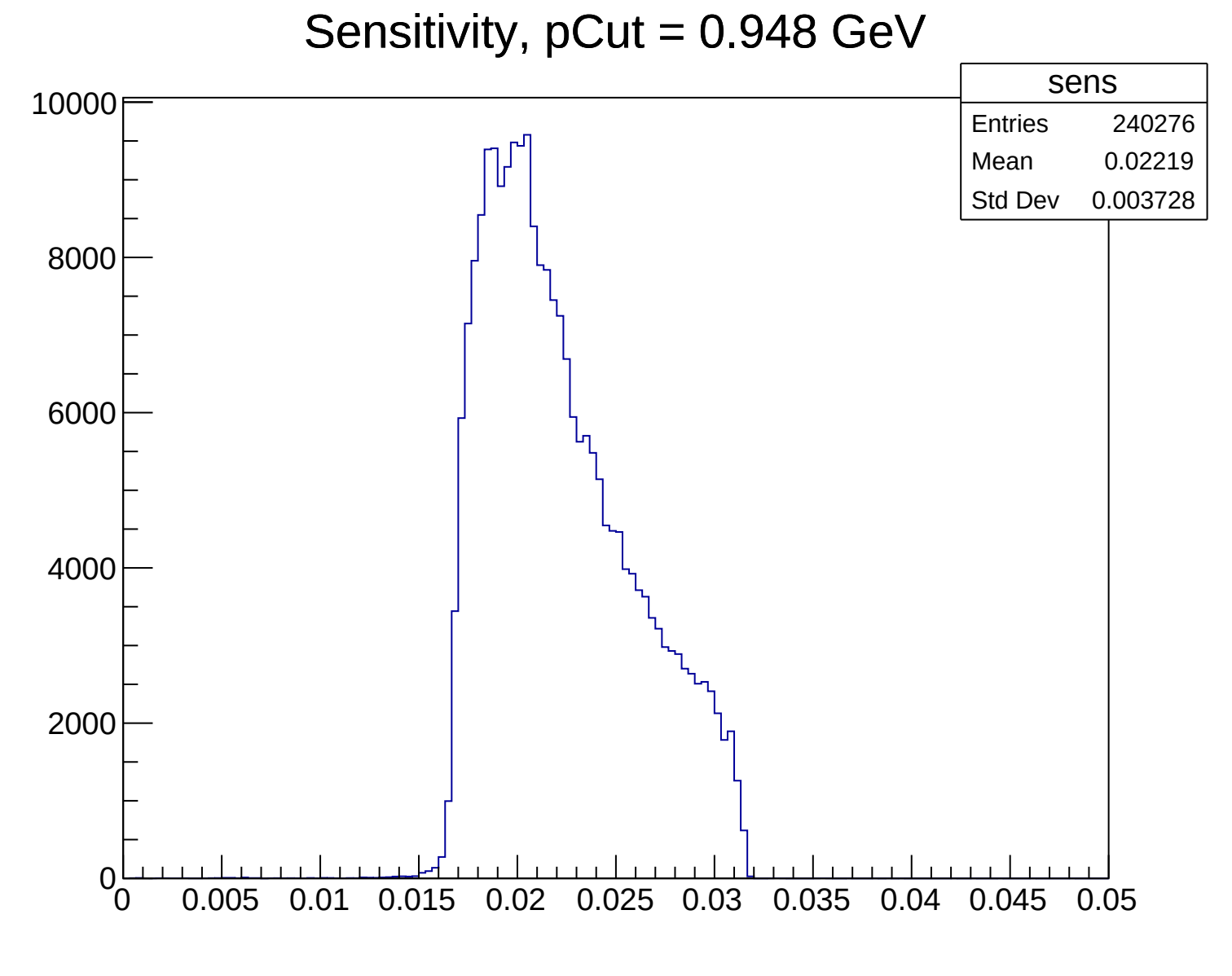

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9475 GeV
R.gold.p (GeV)

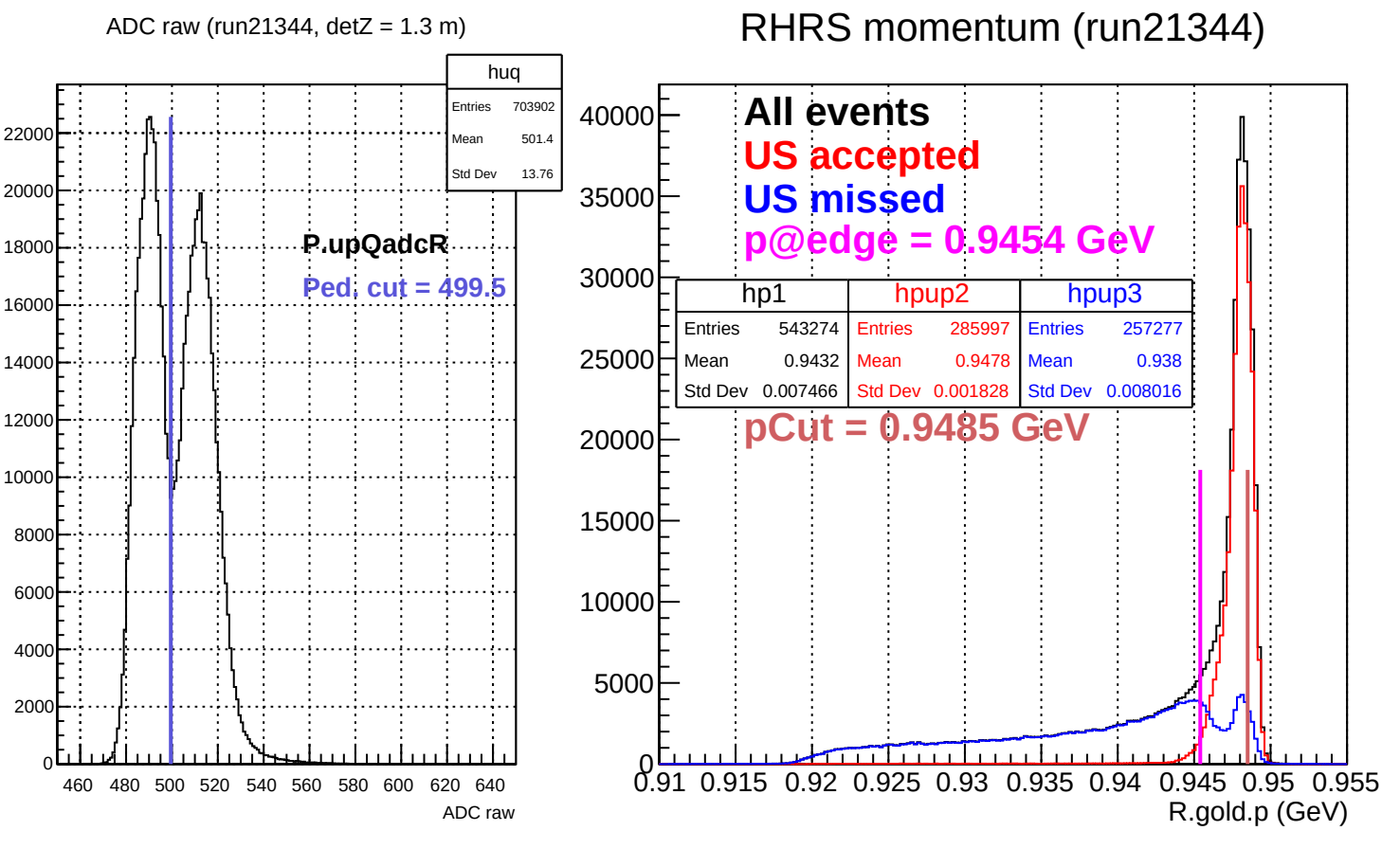

θlab (deg), pCut = 0.948 GeV
Theta
Entries 240276
Mean 4.77
Std Dev 0.4301
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

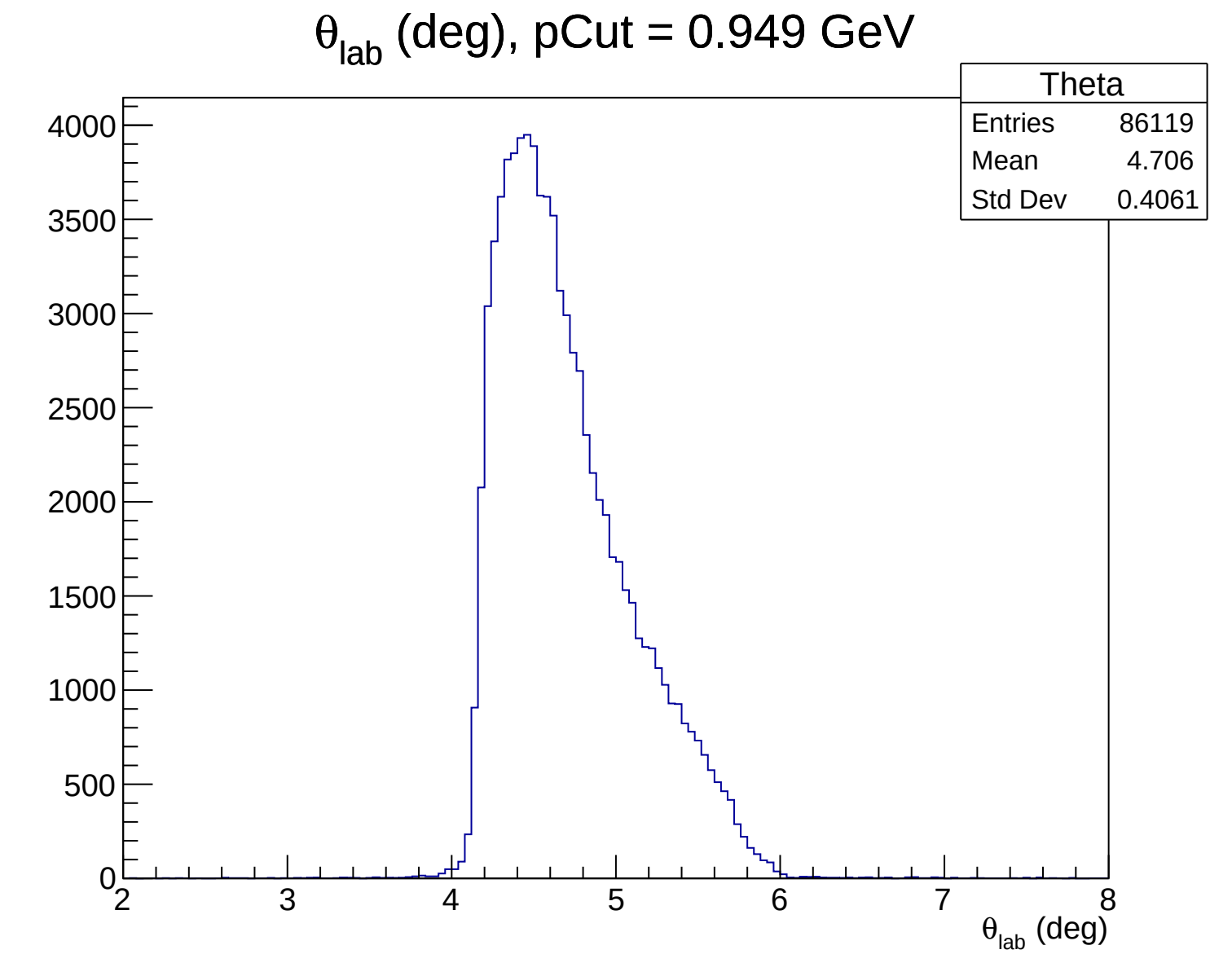

Asymmetry (ppm), pCut = 0.948 GeV
Asym
Entries 240276
Mean 0.5685
Std Dev 0.08276
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

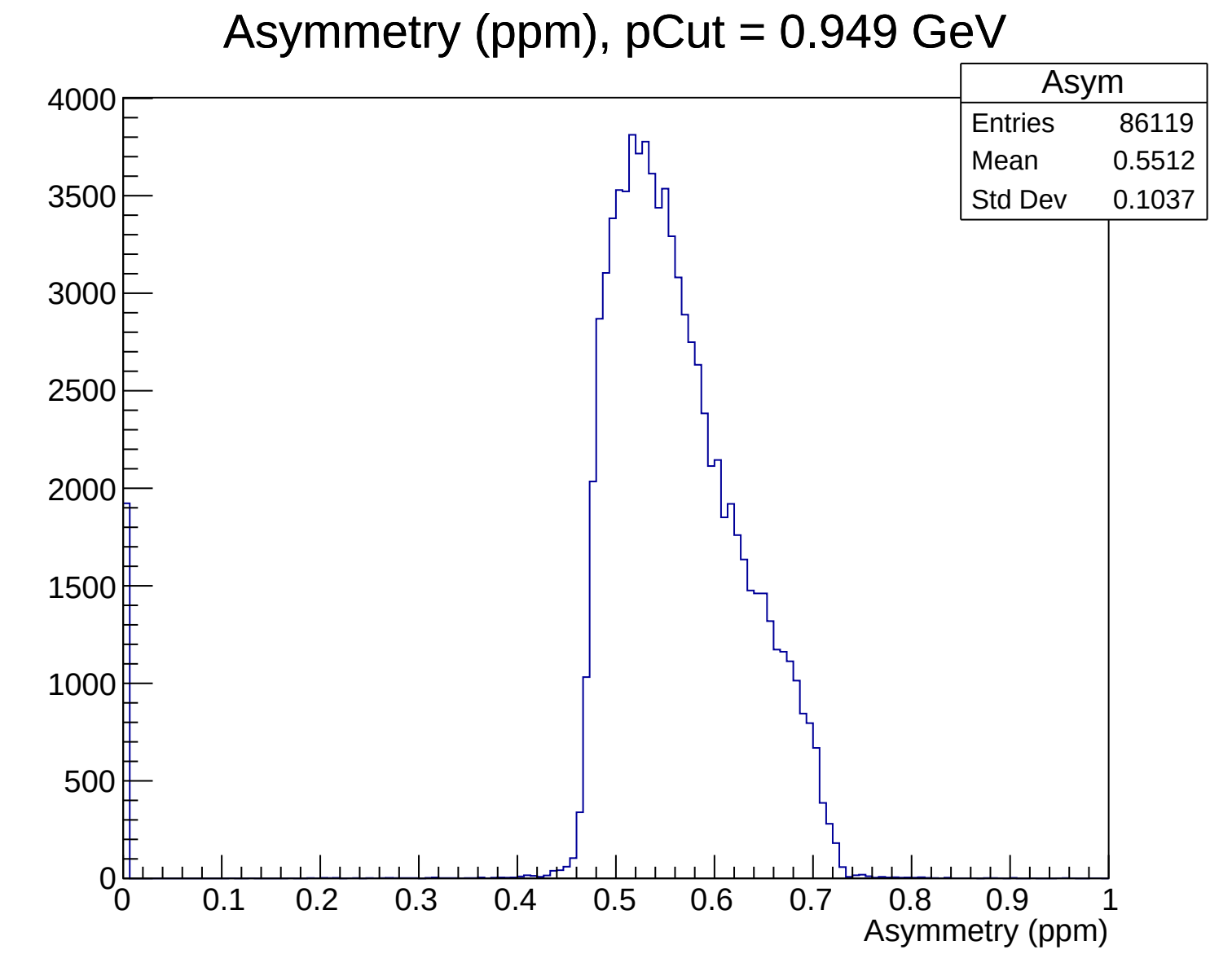

Stretched Asym. (ppm), pCut = 0.948 GeV
SAsym
Entries 240276
Mean 0.5556
Std Dev 0.07918
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

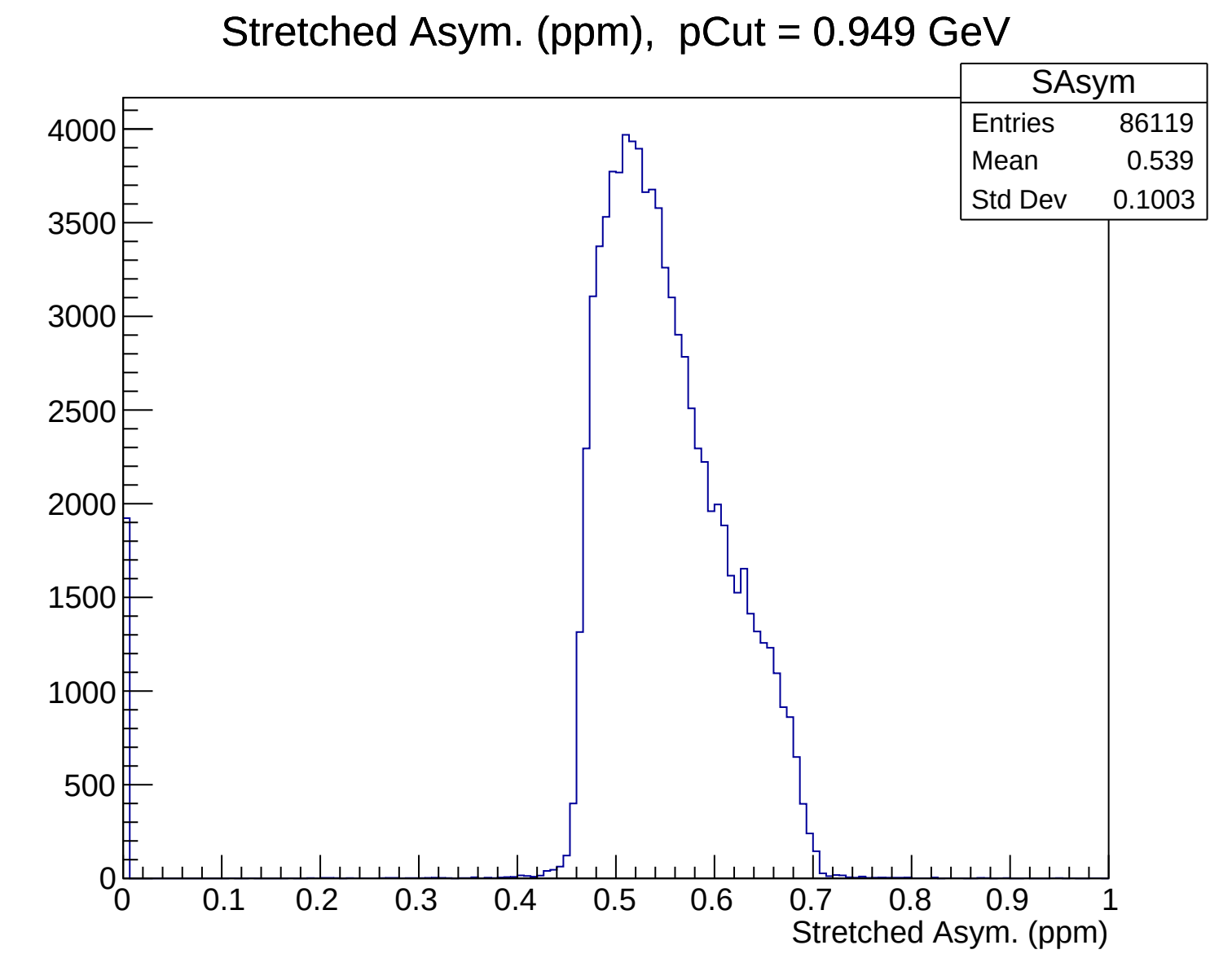

Q^2 (GeV/c)^2, pCut = 0.948 GeV
Q2
Entries 240276
Mean 0.006291
Std Dev 0.00116
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

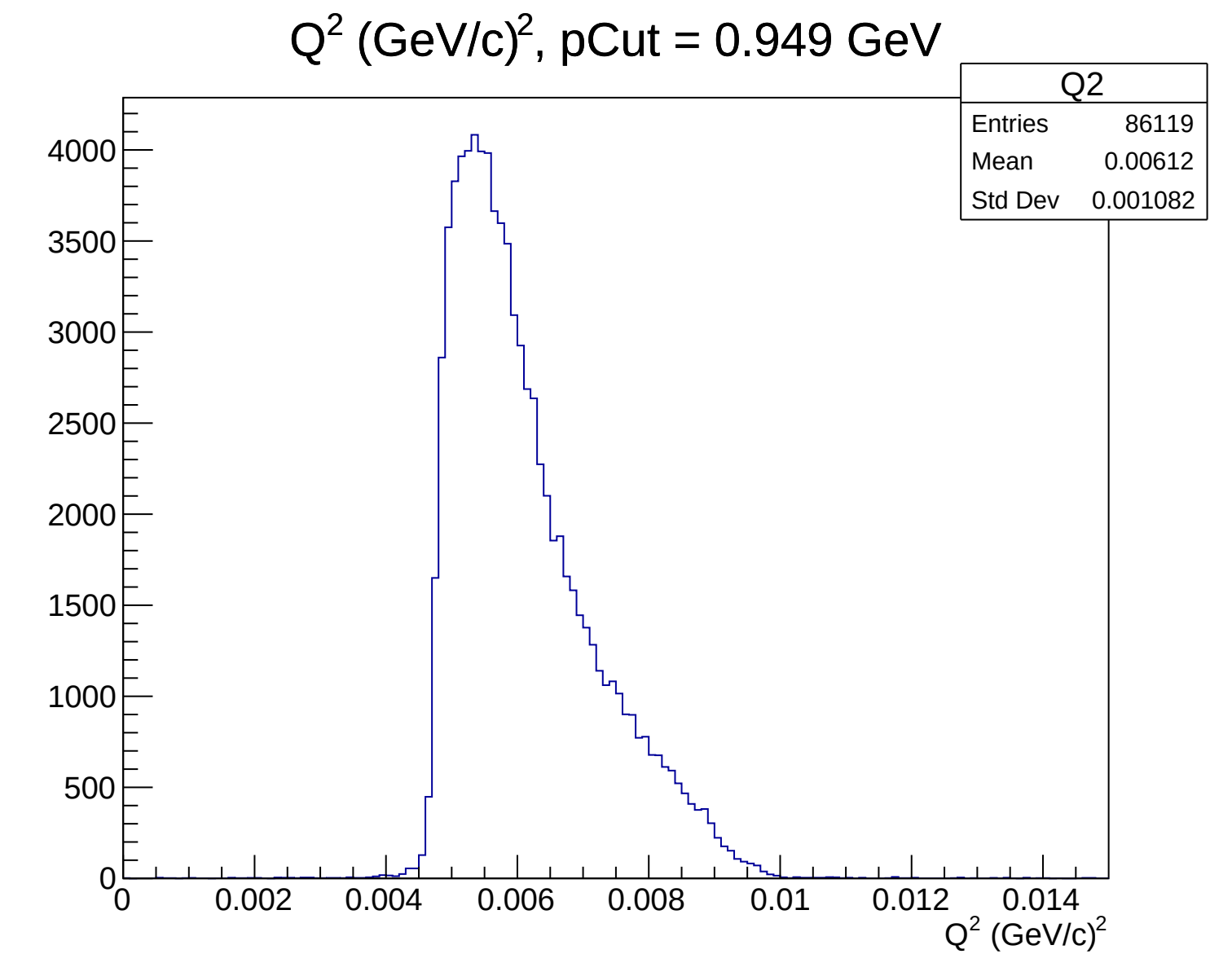

Sensitivity, pCut = 0.948 GeV
sens
Entries 240276
Mean 0.02219
Std Dev 0.003728
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

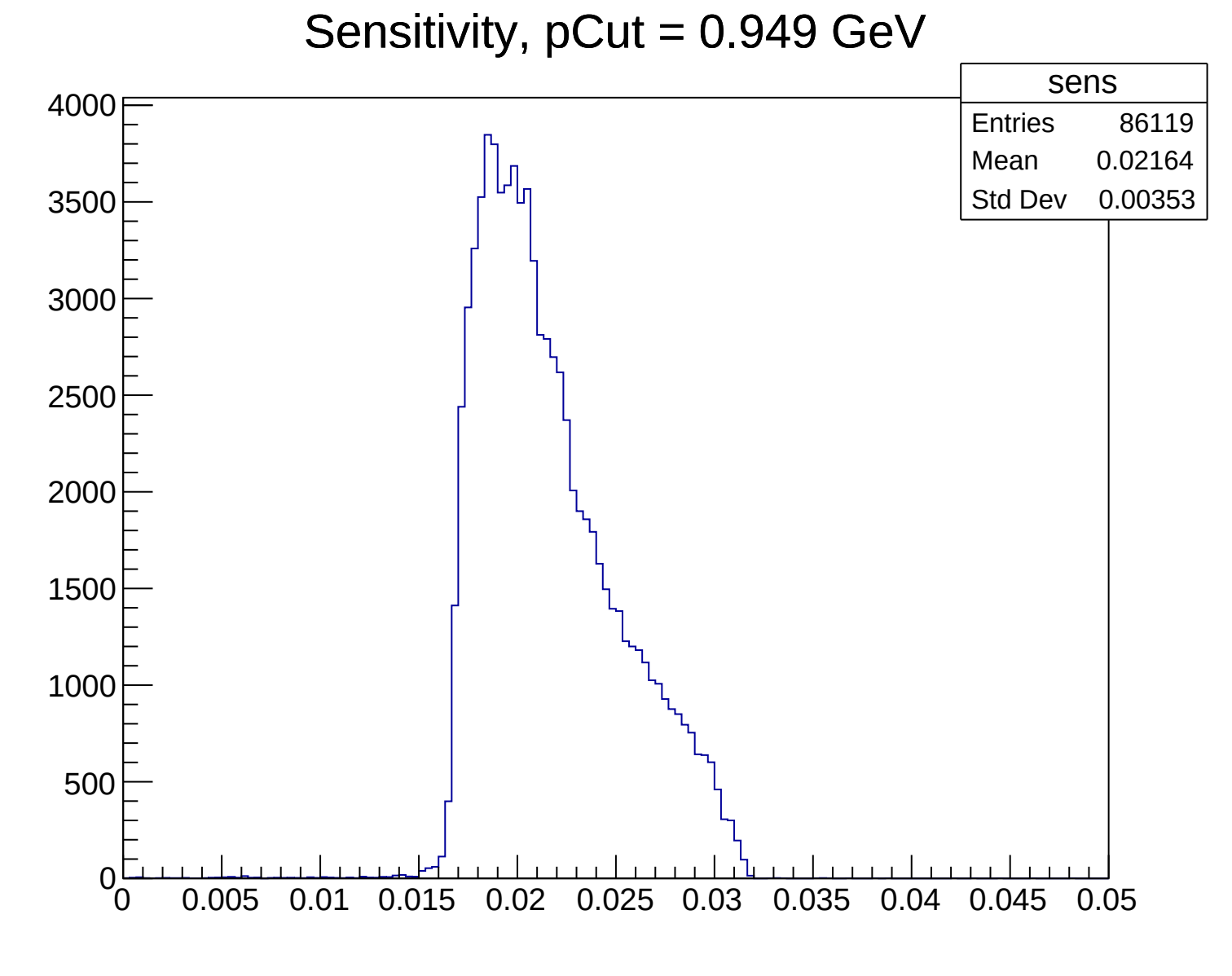

ADC raw (run21344, detZ = 1.3 m)
huq
Entries 703902
Mean 501.4
Std Dev 13.76
P.upQadcR
Ped. cut = 499.5
ADC raw
RHRS momentum (run21344)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 543274
Mean 0.9432
Std Dev 0.007466
hpup2
Entries 285997
Mean 0.9478
Std Dev 0.001828
hpup3
Entries 257277
Mean 0.938
Std Dev 0.008016
pCut = 0.9485 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.949 GeV
Theta
Entries 86119
Mean 4.706
Std Dev 0.4061
4000
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), pCut = 0.949 GeV
Asym
Entries 86119
Mean 0.5512
Std Dev 0.1037
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.949 GeV
SAsym
Entries 86119
Mean 0.539
Std Dev 0.1003
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)


Q^2 (GeV/c)^2, pCut = 0.949 GeV
Q2
Entries 86119
Mean 0.00612
Std Dev 0.001082
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2


Sensitivity, pCut = 0.949 GeV
sens
Entries 86119
Mean 0.02164
Std Dev 0.00353
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05