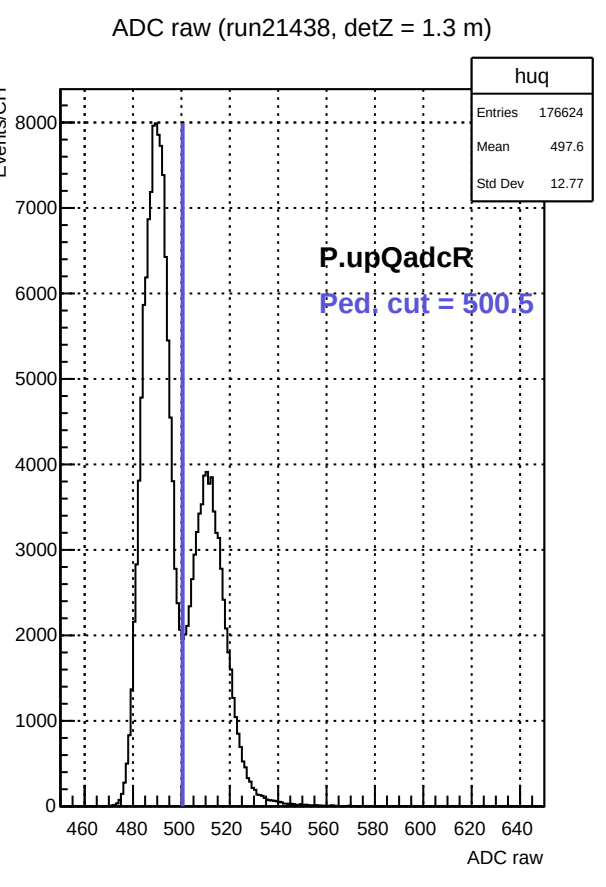
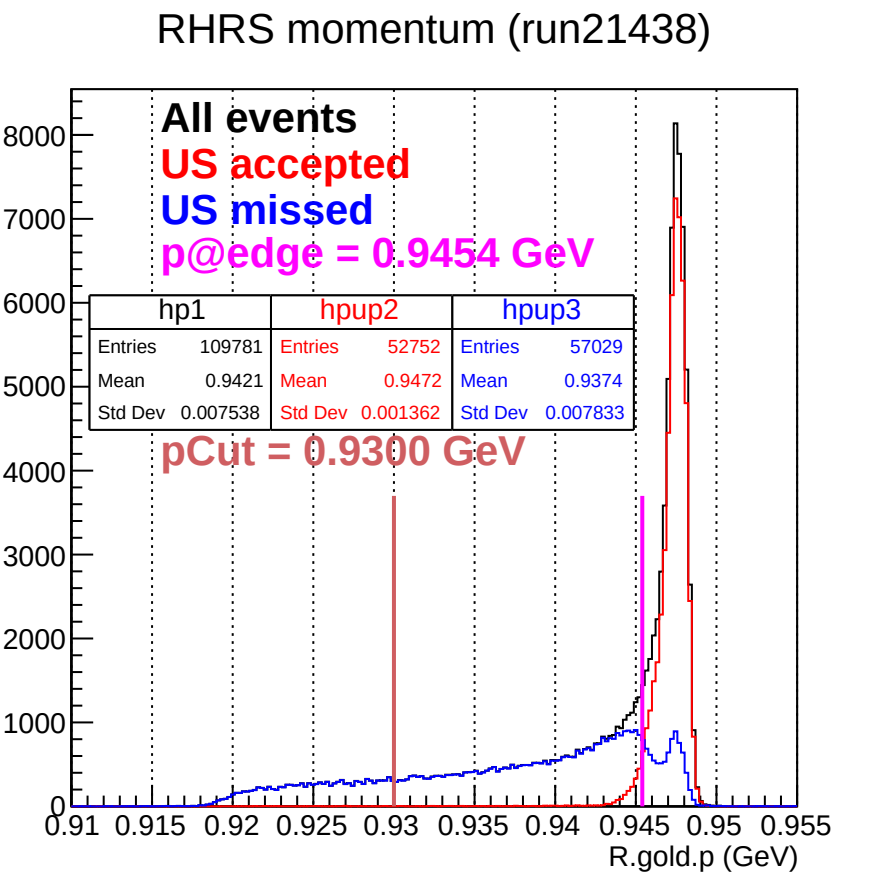
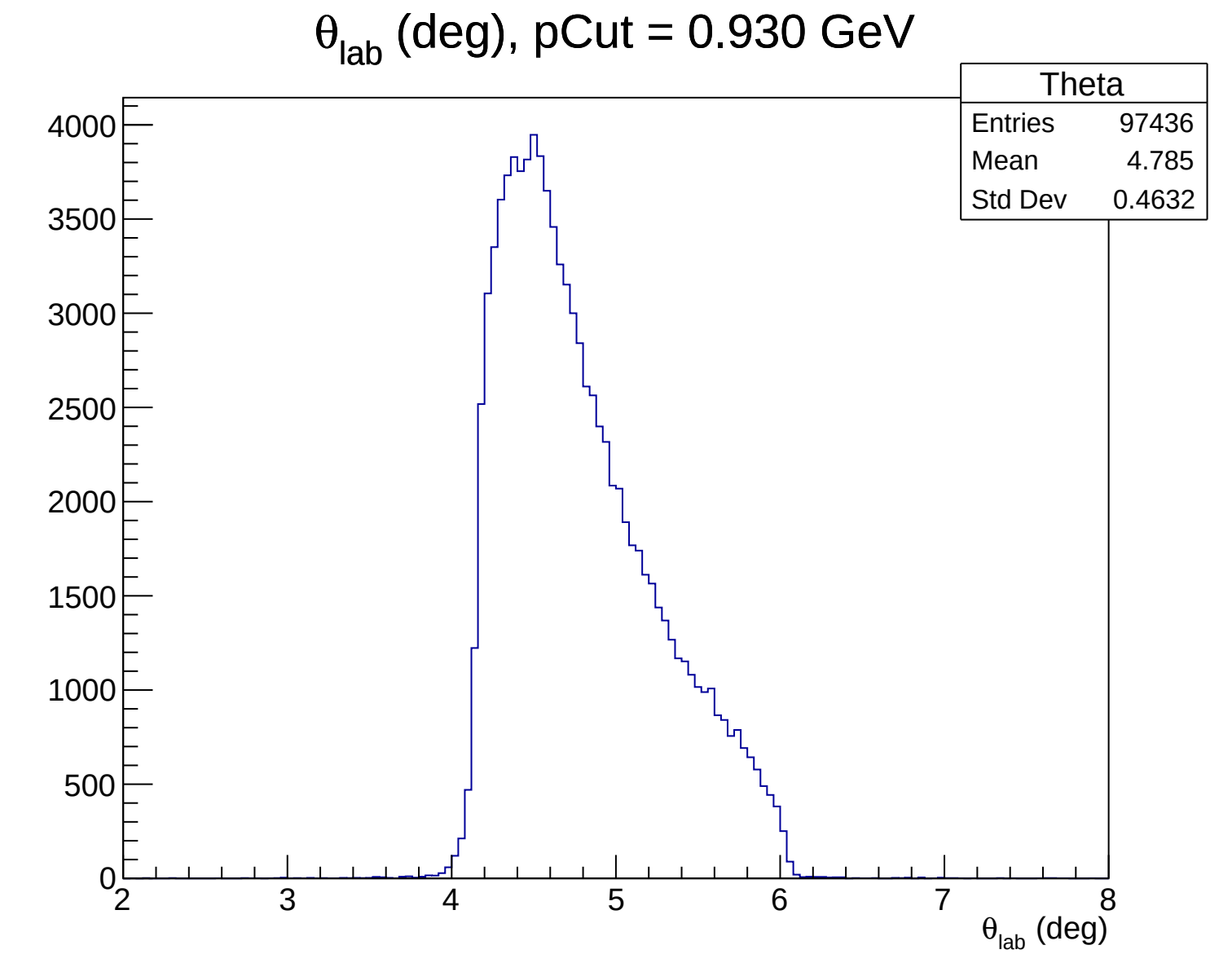
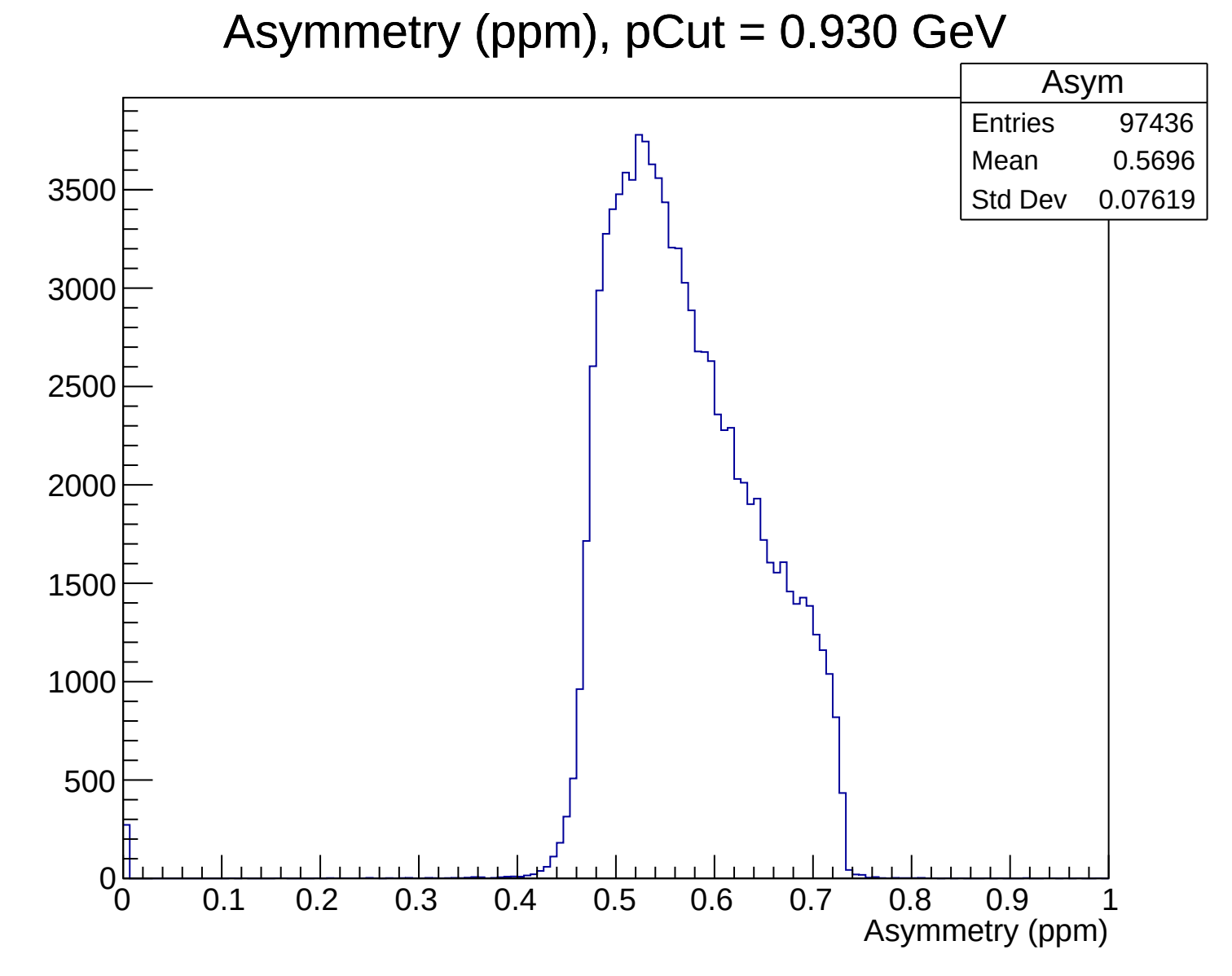
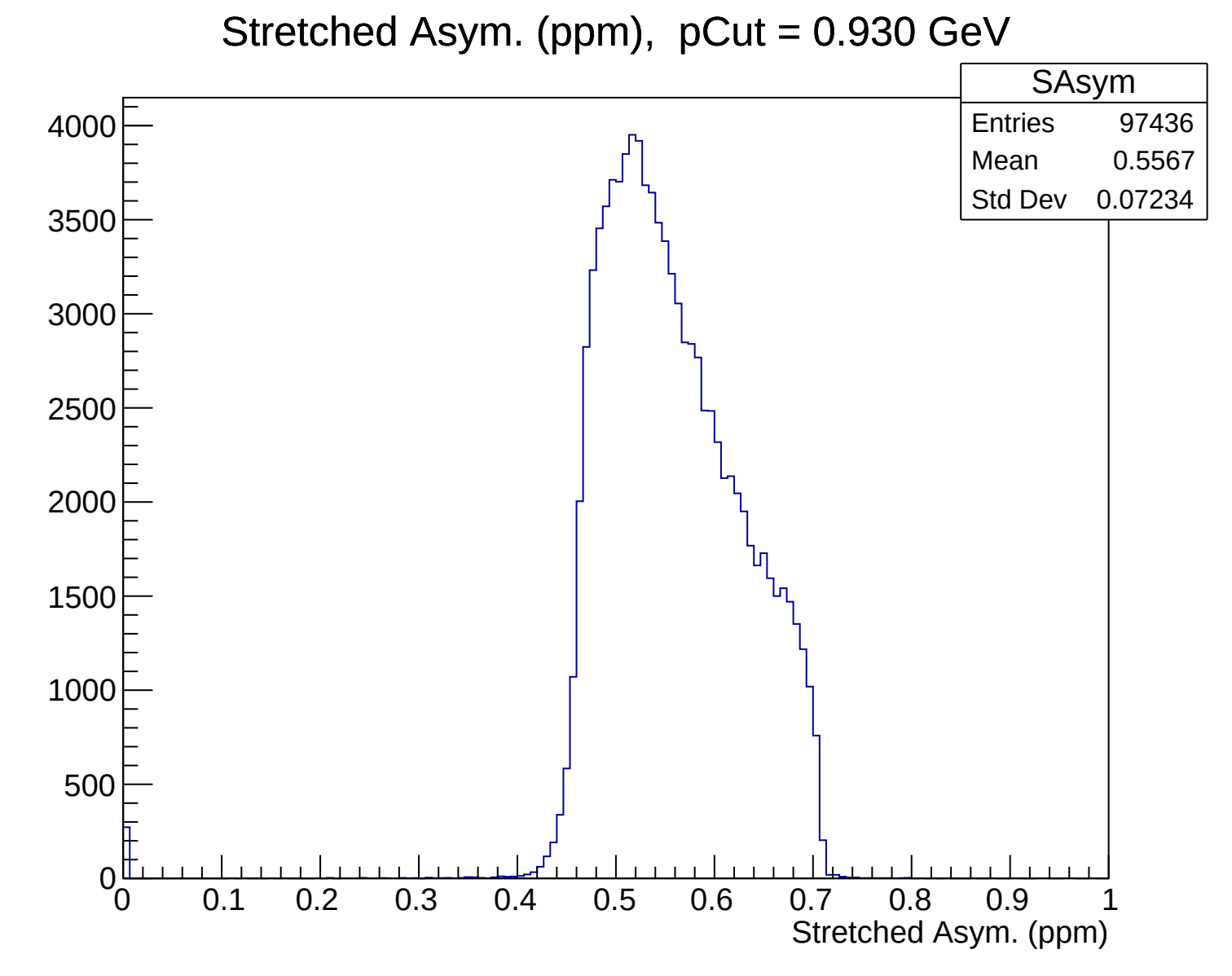
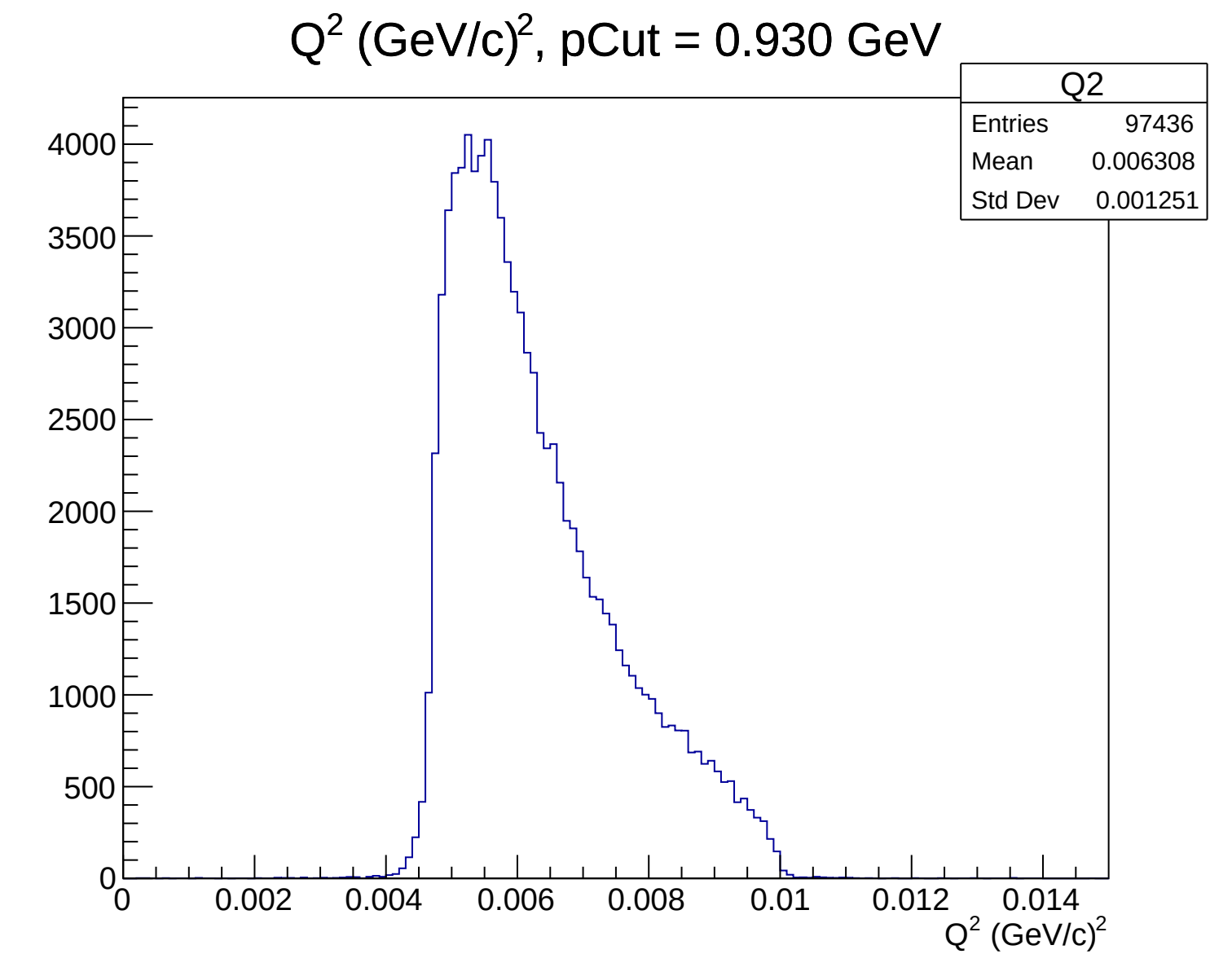

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

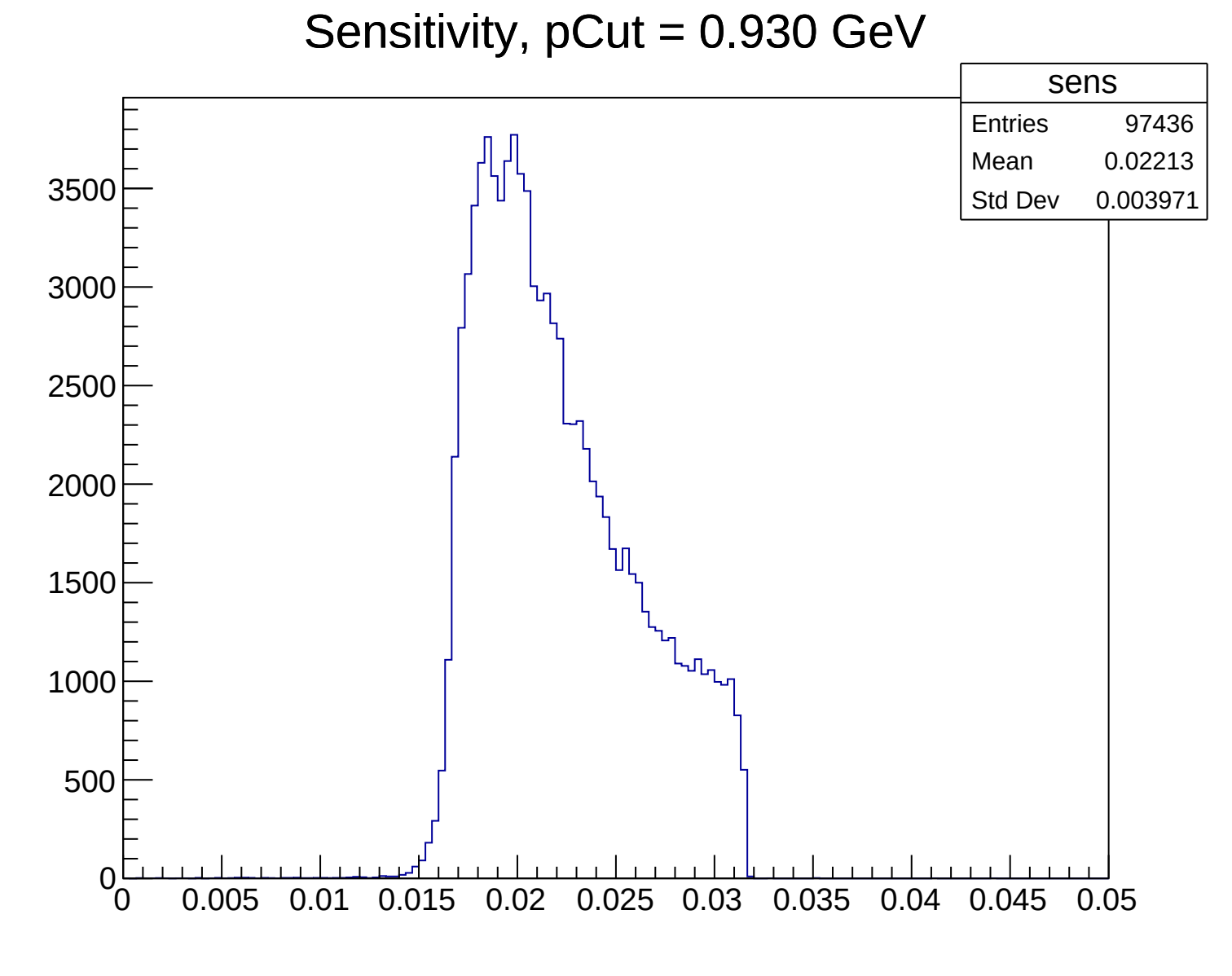

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9300 GeV
R.gold.p (GeV)

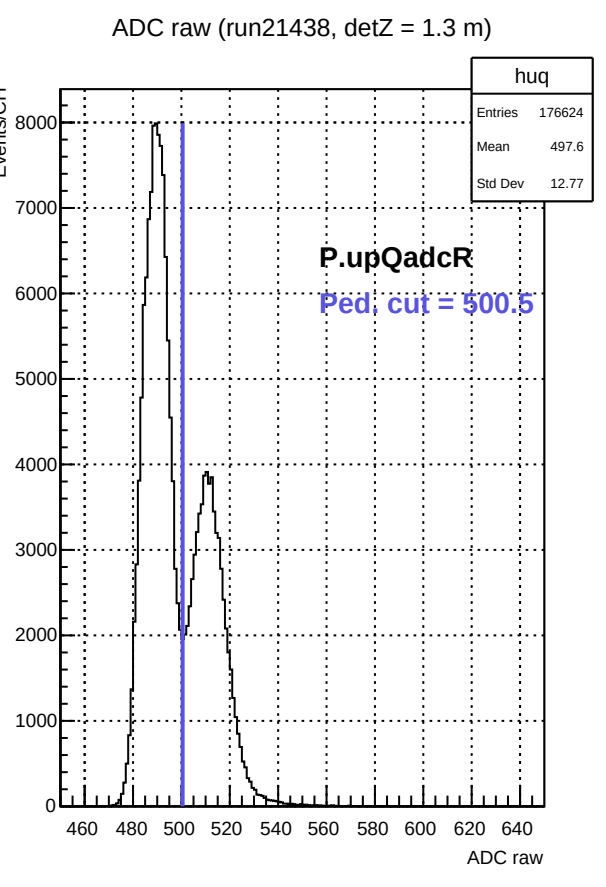

θlab (deg), pCut = 0.930 GeV
Theta
Entries 97436
Mean 4.785
Std Dev 0.4632
4000
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

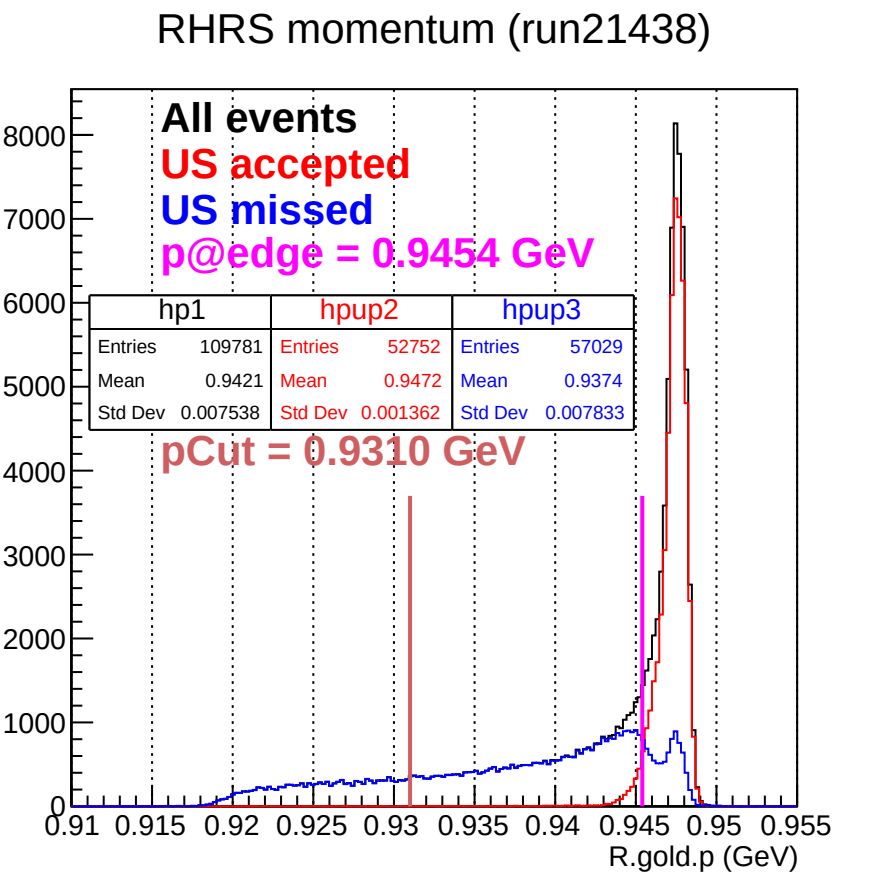

Asymmetry (ppm), pCut = 0.930 GeV
Asym
Entries 97436
Mean 0.5696
Std Dev 0.07619
3500
3000
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

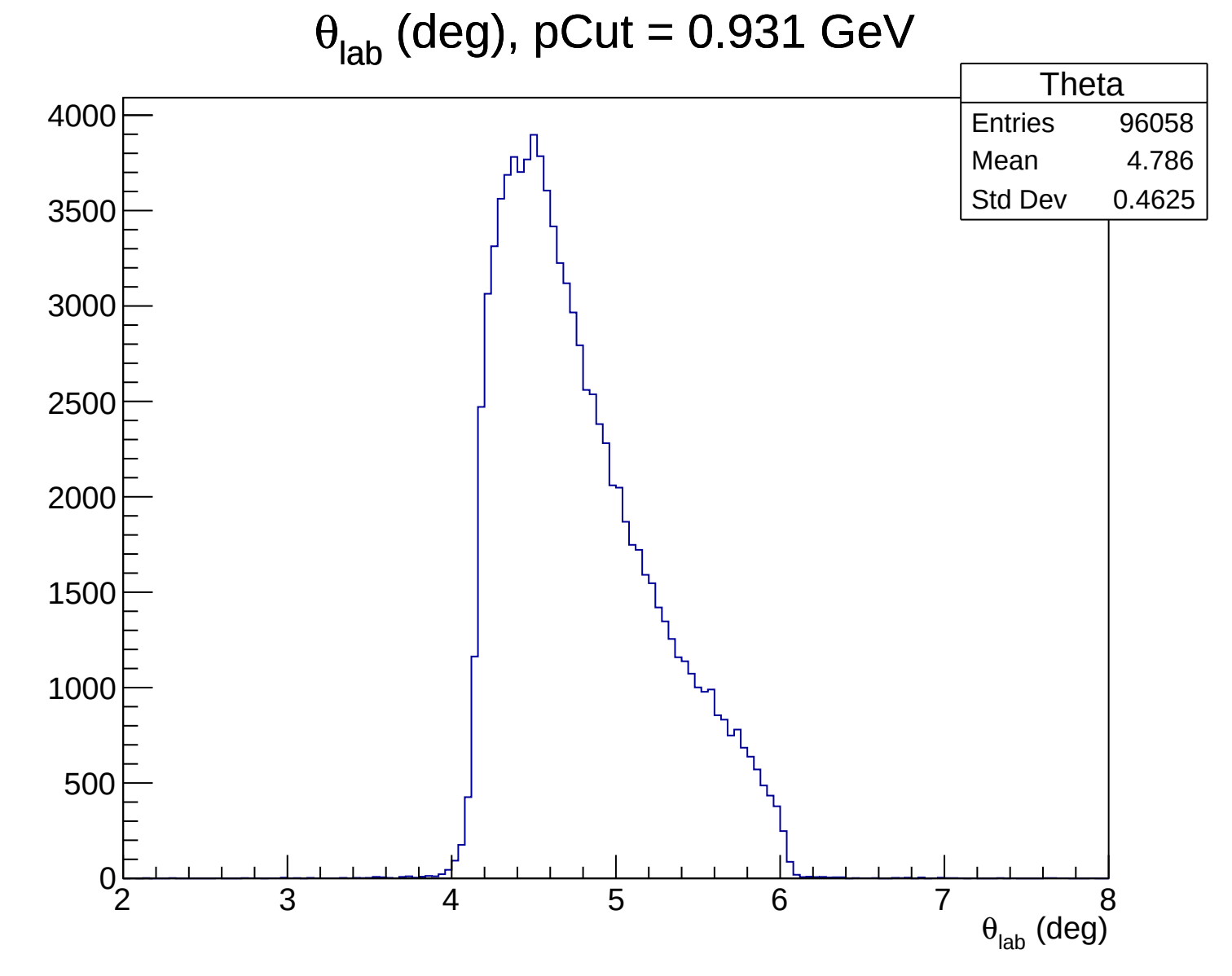

Stretched Asym. (ppm), pCut = 0.930 GeV
SAsym
Entries 97436
Mean 0.5567
Std Dev 0.07234
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

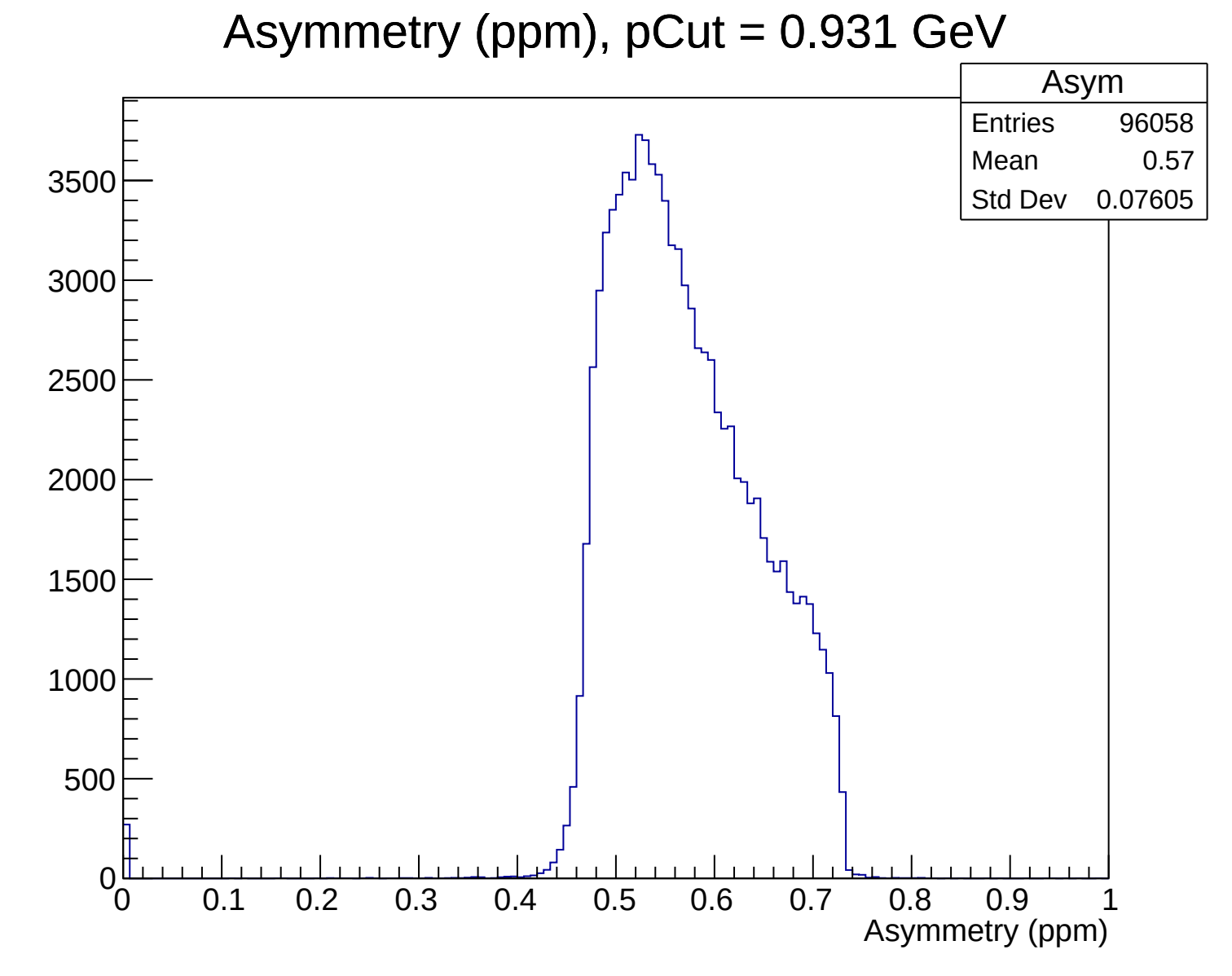

Q^2 (GeV/c)^2, pCut = 0.930 GeV
Q2
Entries 97436
Mean 0.006308
Std Dev 0.001251
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

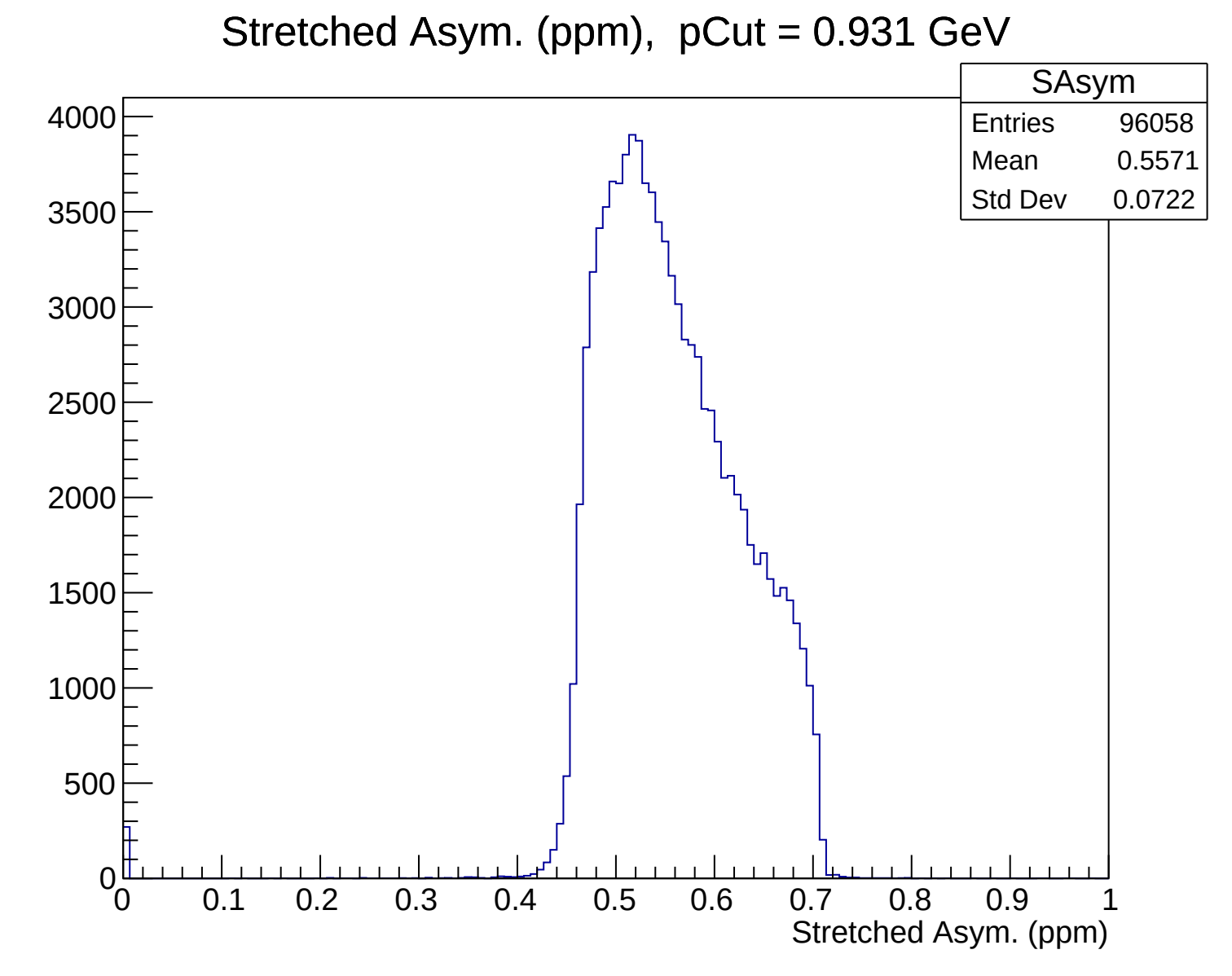

Sensitivity, pCut = 0.930 GeV
sens
Entries 97436
Mean 0.02213
Std Dev 0.003971
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

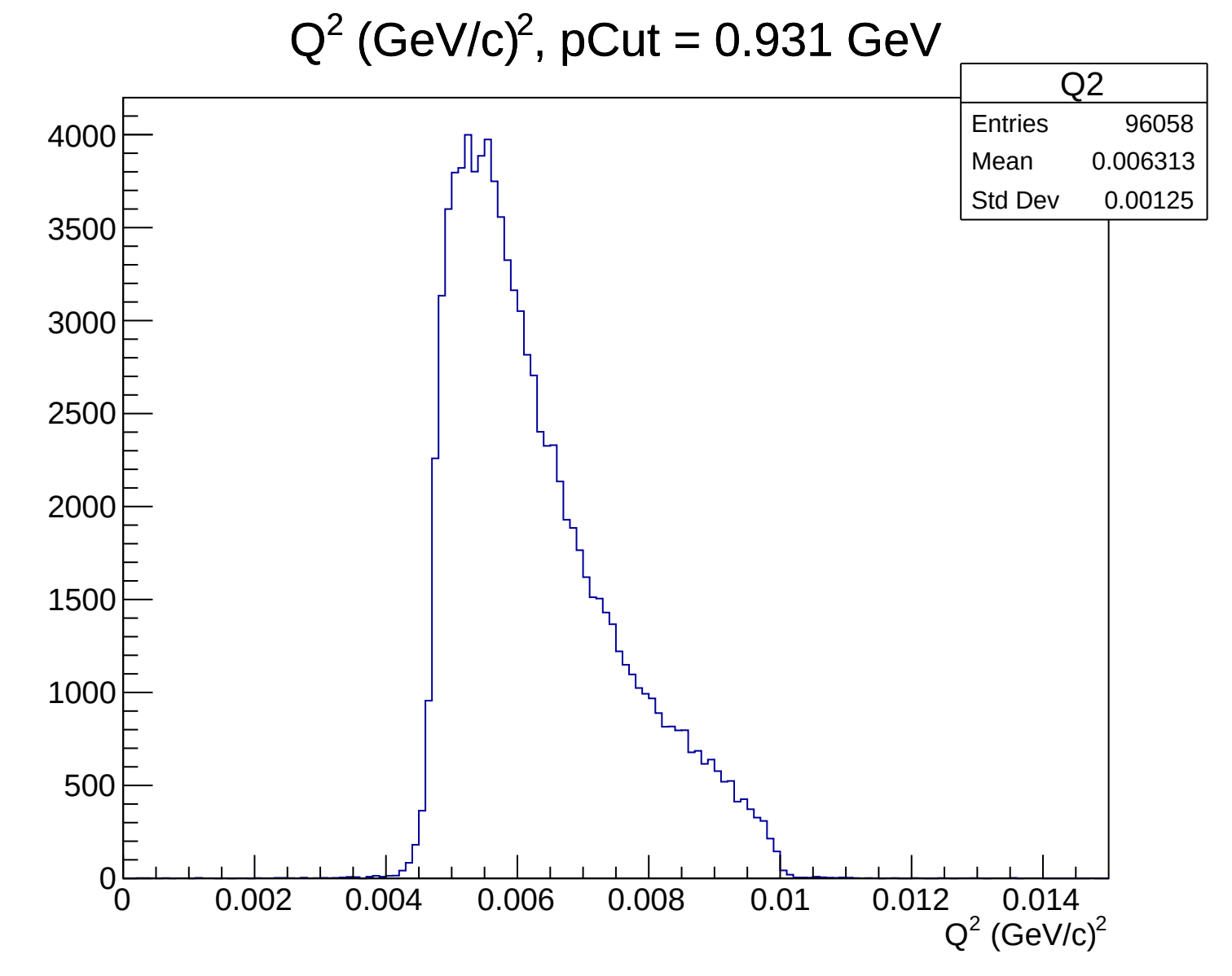

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
8000
7000
6000
5000
4000
3000
2000
1000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

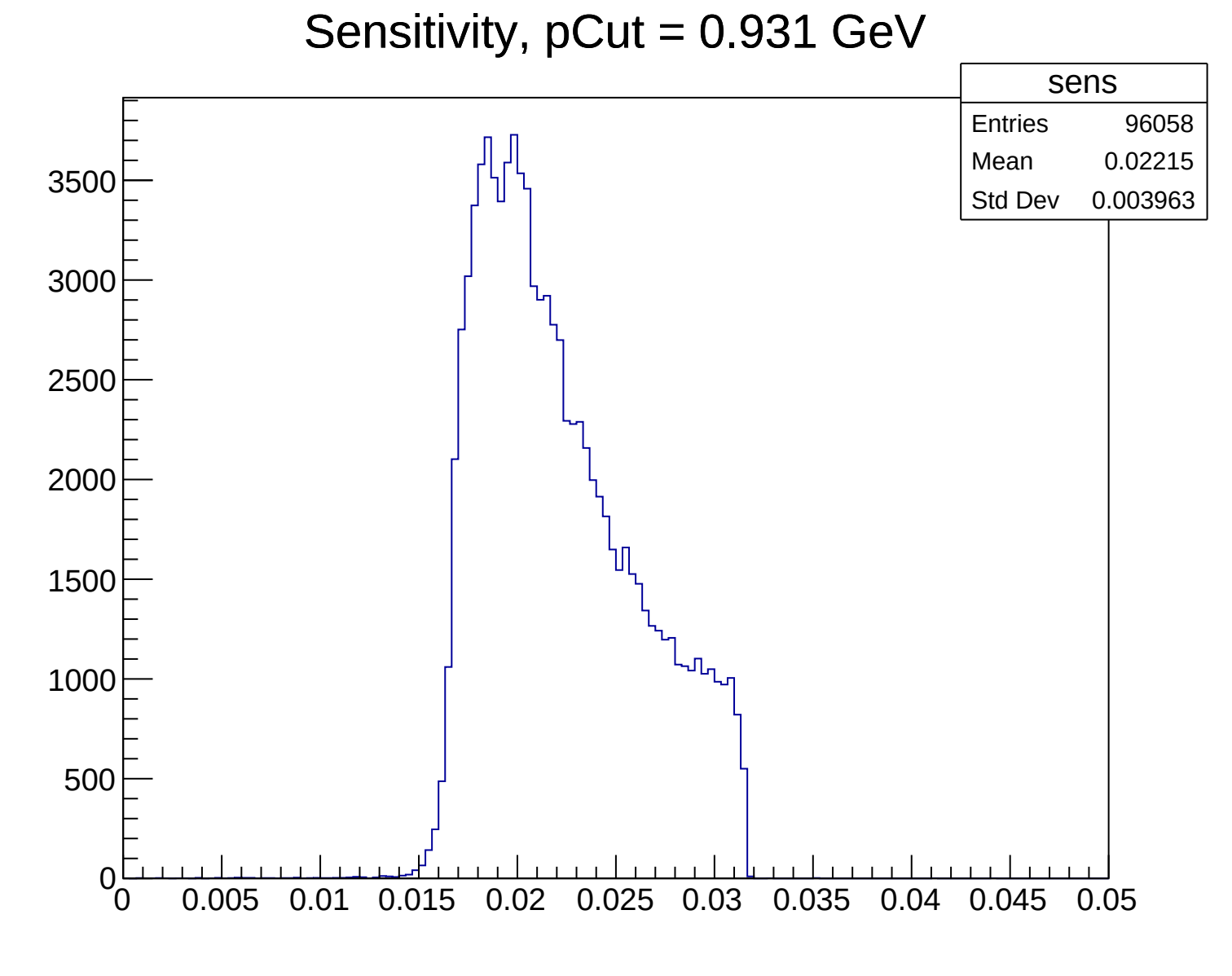

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9310 GeV
8000
7000
6000
5000
4000
3000
2000
1000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)


θlab (deg), pCut = 0.931 GeV
Theta
Entries 96058
Mean 4.786
Std Dev 0.4625
4000
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

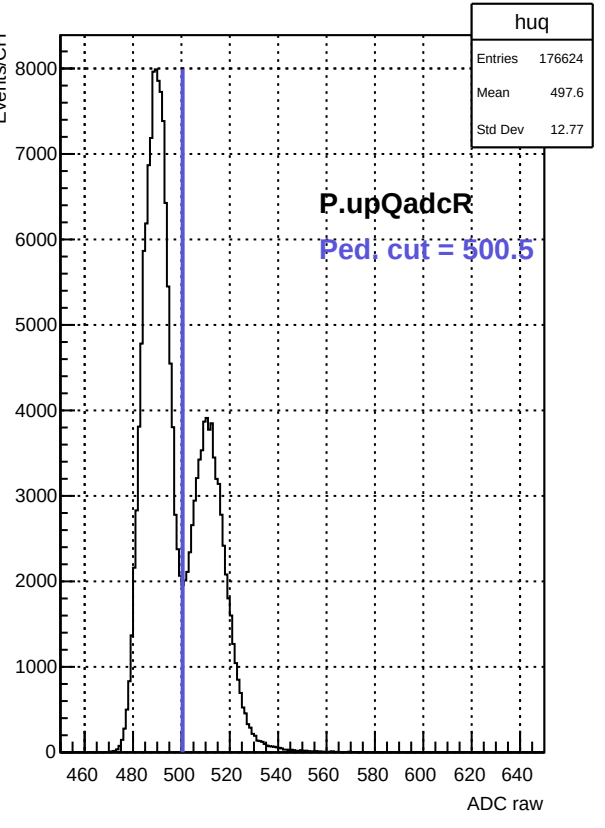

Asymmetry (ppm), pCut = 0.931 GeV
Asym
Entries 96058
Mean 0.57
Std Dev 0.07605
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.931 GeV
SAsym
Entries 96058
Mean 0.5571
Std Dev 0.0722
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)

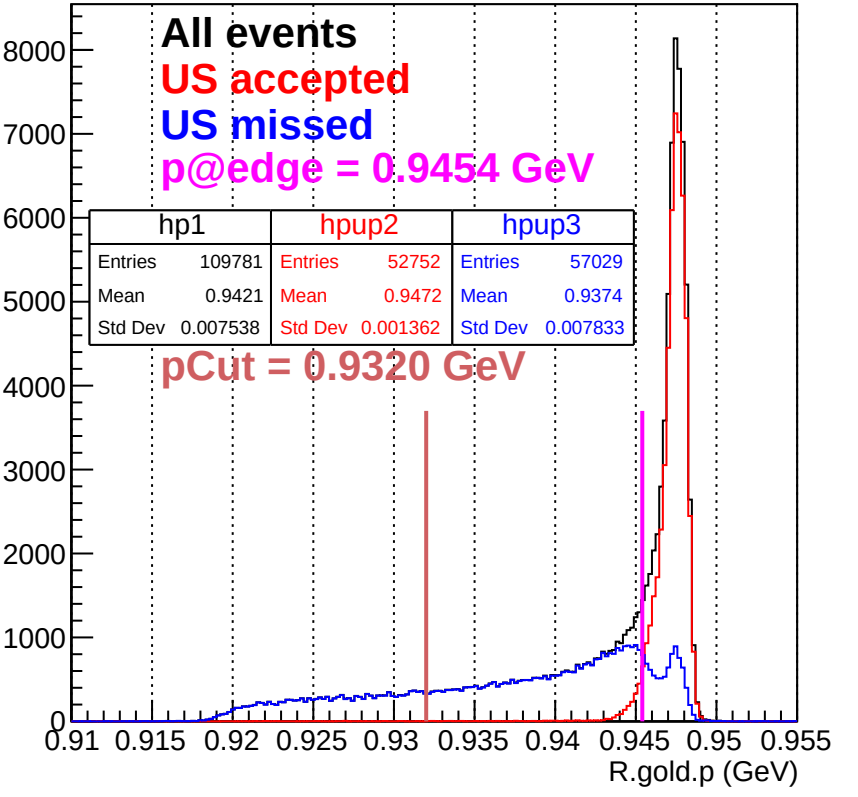

Q^2 (GeV/c)^2, pCut = 0.931 GeV
Q2
Entries 96058
Mean 0.006313
Std Dev 0.00125
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

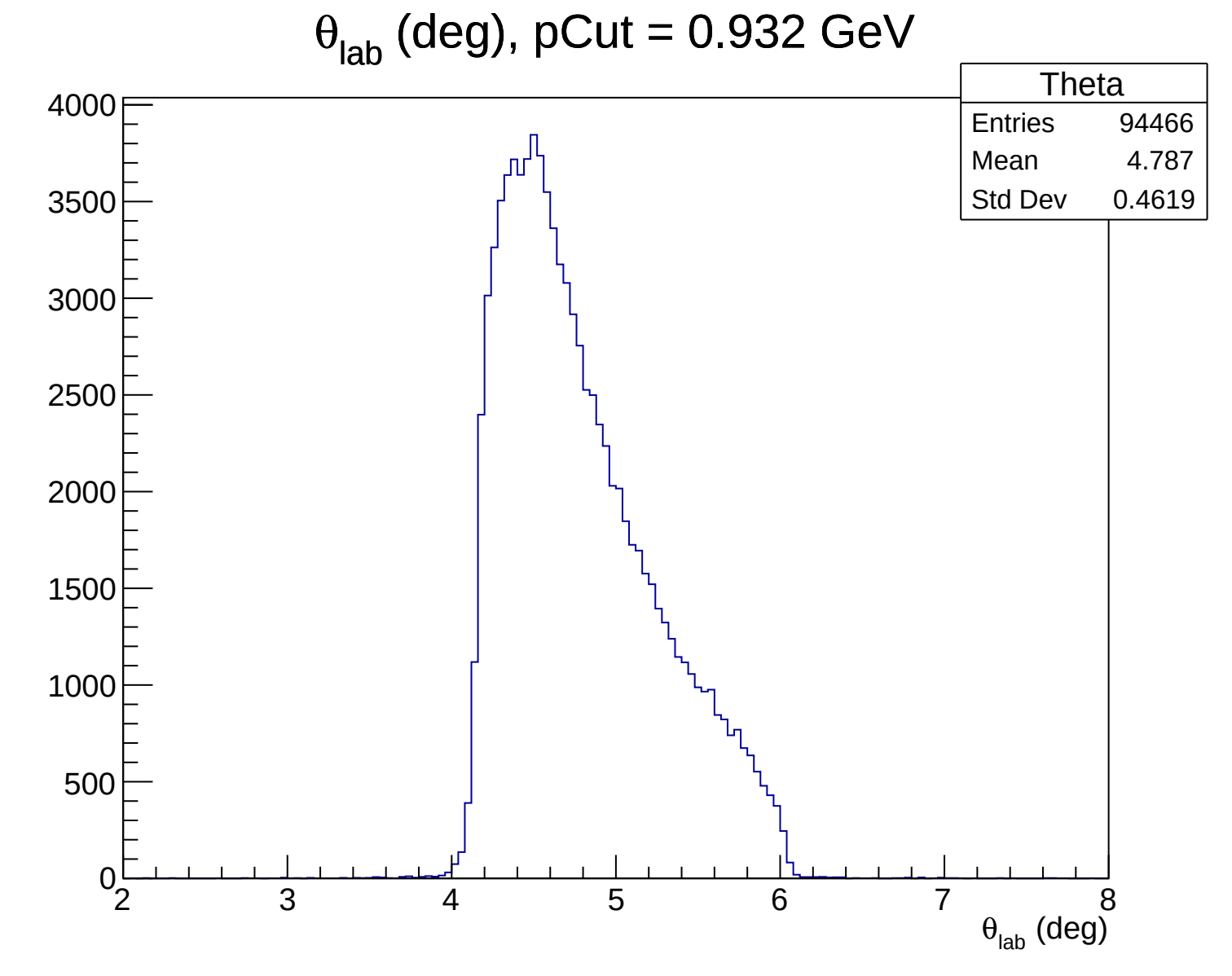

Sensitivity, pCut = 0.931 GeV
sens
Entries 96058
Mean 0.02215
Std Dev 0.003963
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

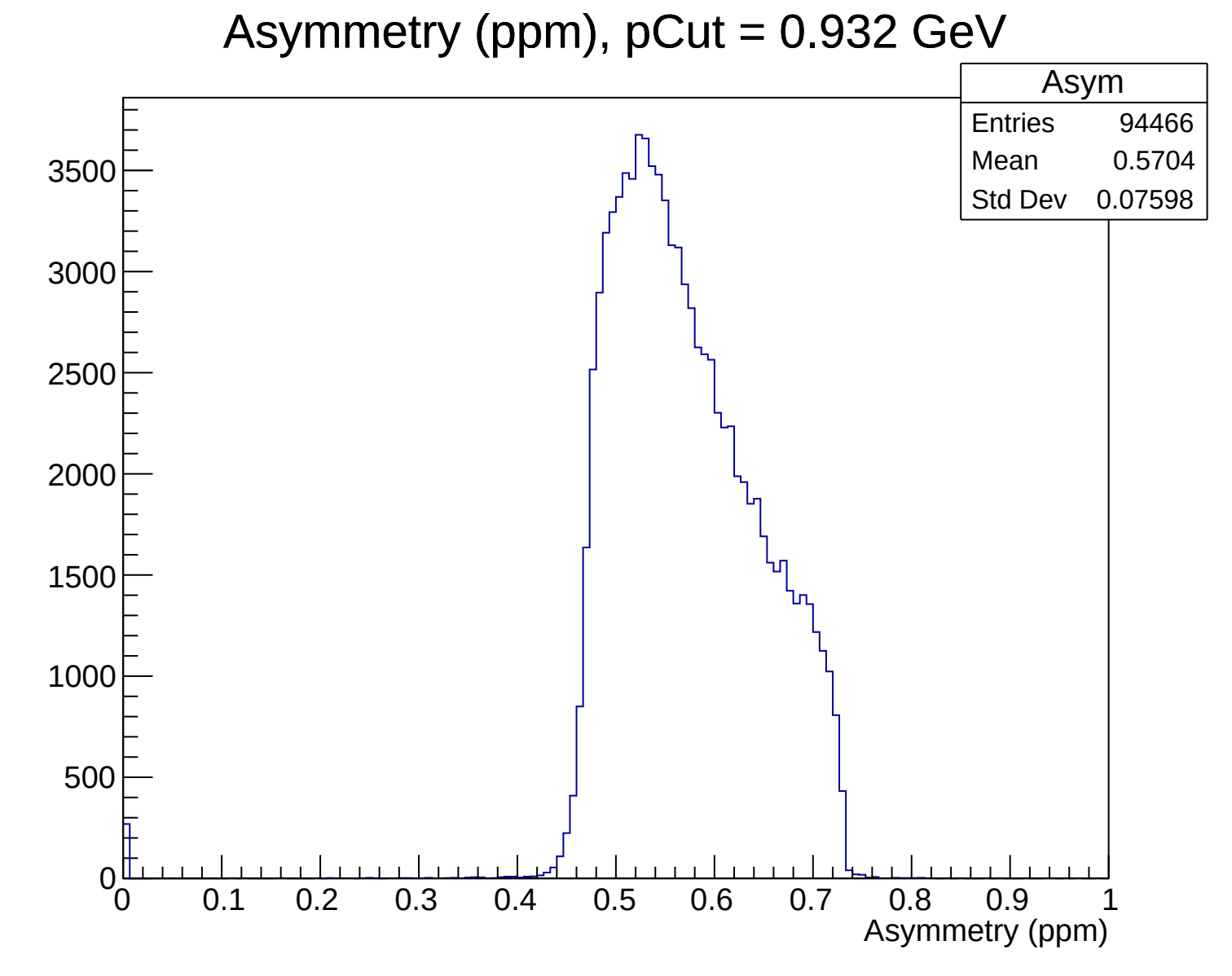
ADC raw (run21438, detZ = 1.3 m)

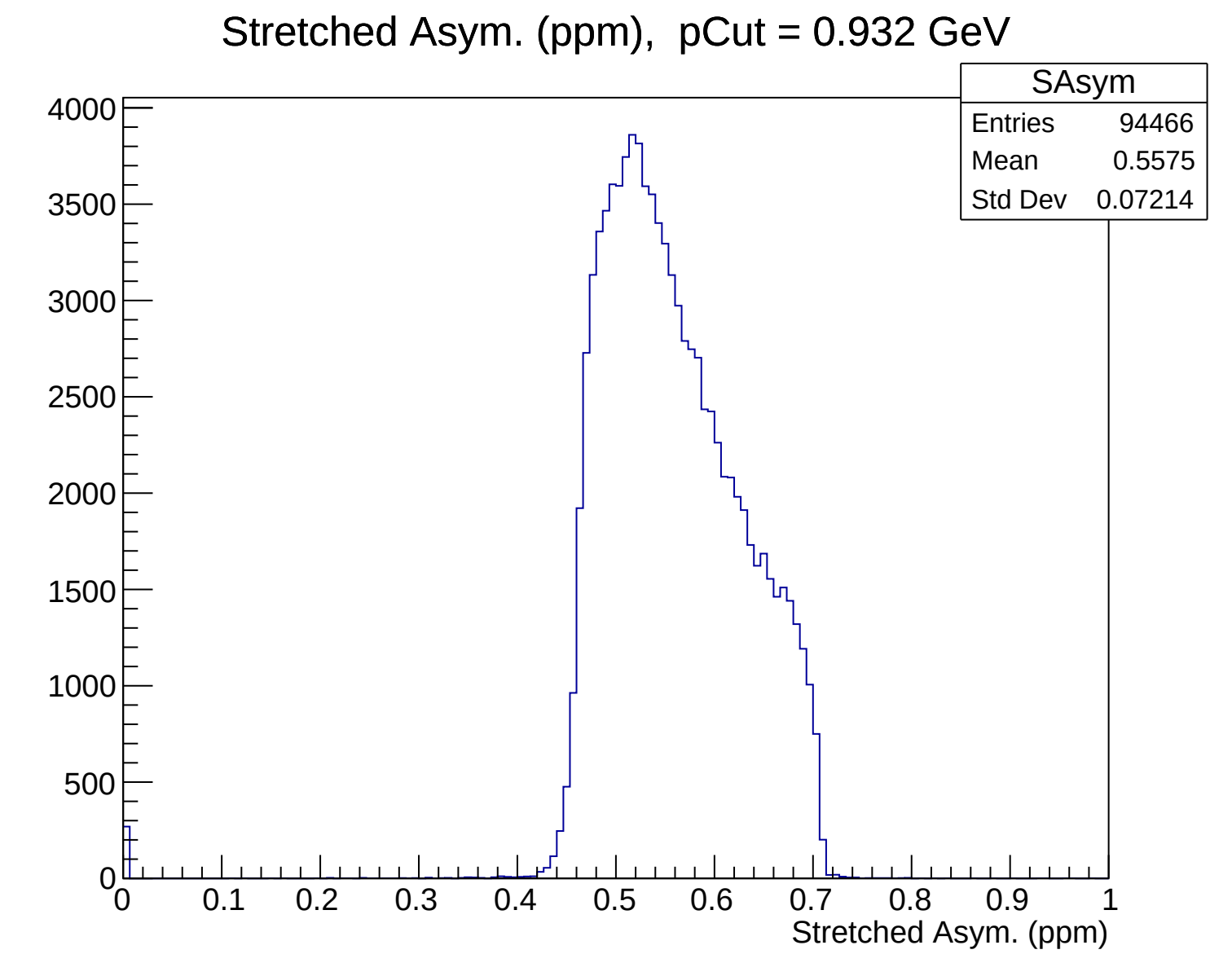


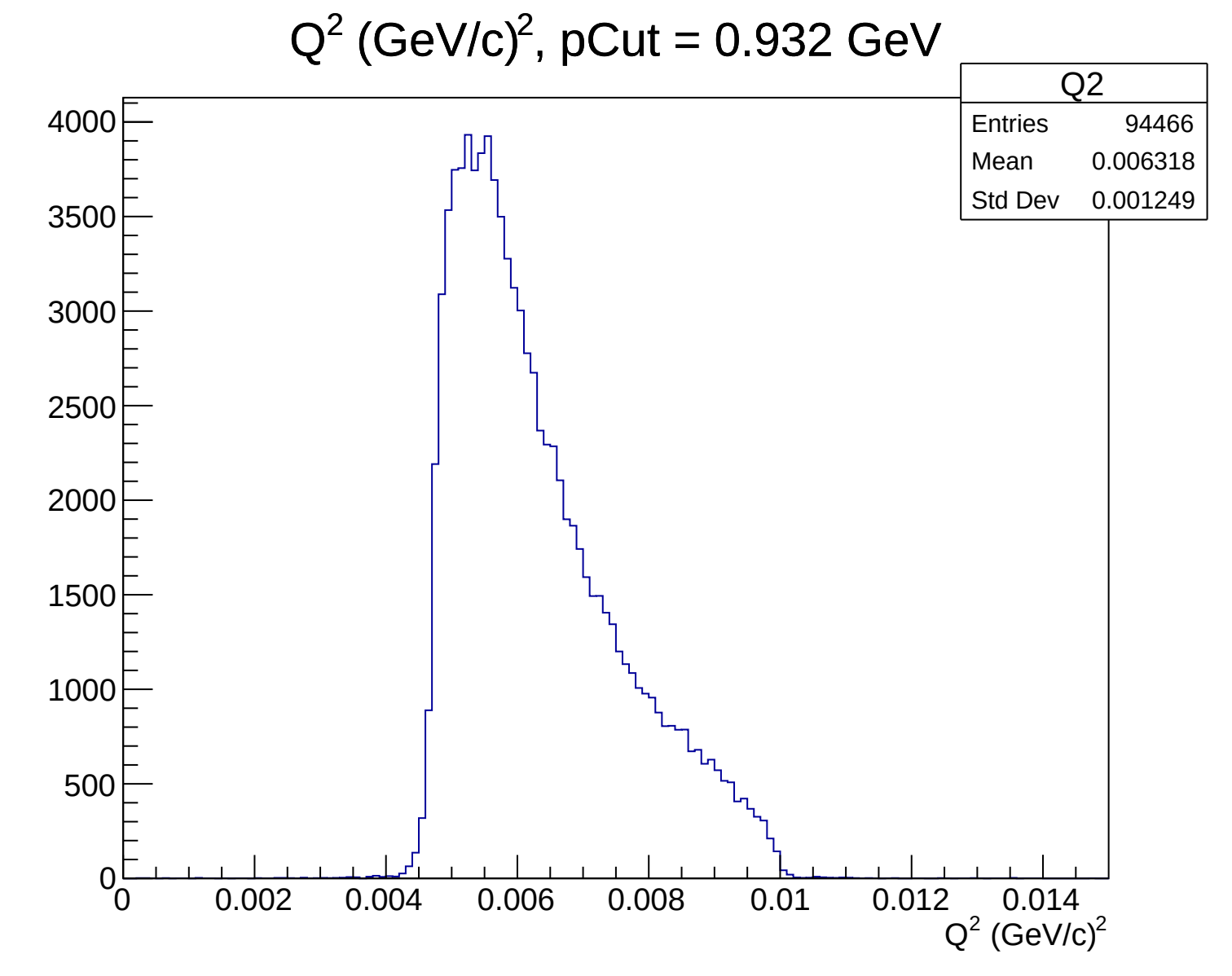
RHRS momentum (run21438)

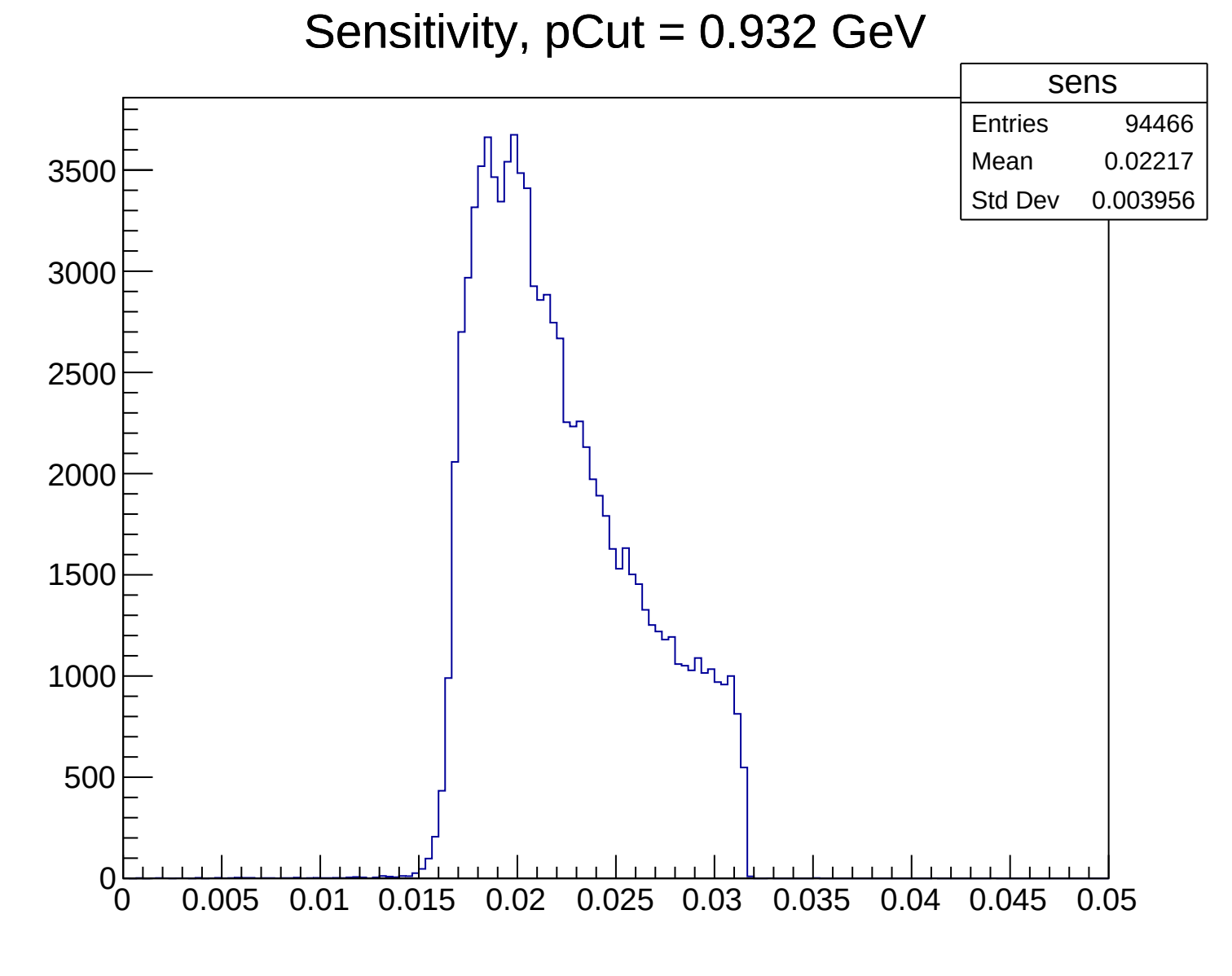


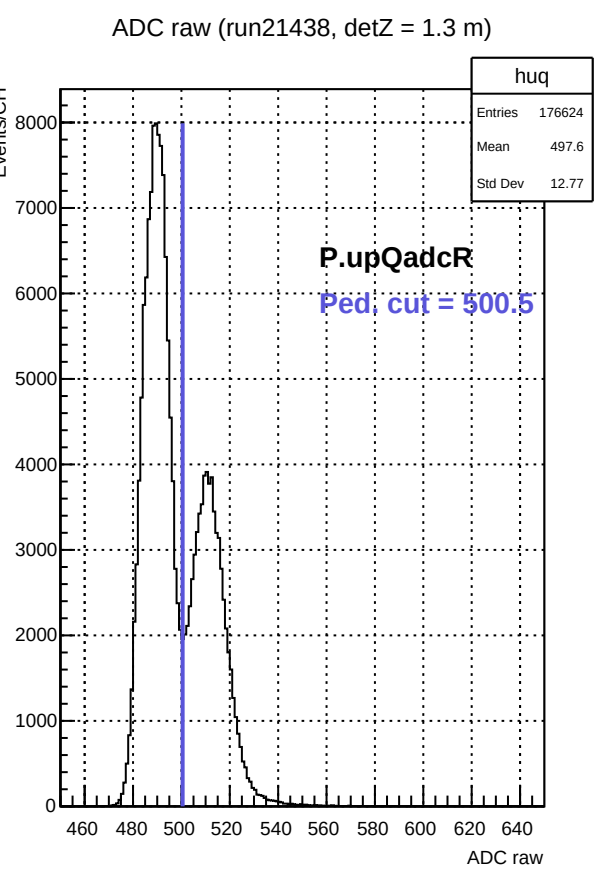

θlab (deg), pCut = 0.932 GeV
Theta
Entries 94466
Mean 4.787
Std Dev 0.4619
4000
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

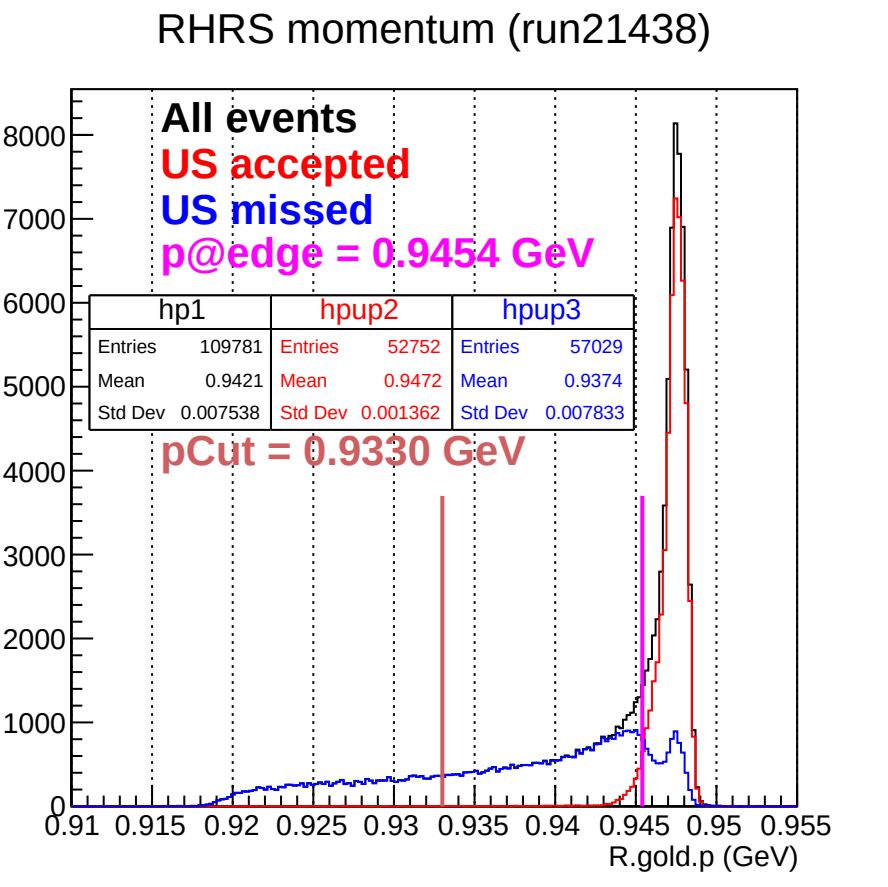

Asymmetry (ppm), pCut = 0.932 GeV
Asym
Entries 94466
Mean 0.5704
Std Dev 0.07598
3500
3000
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

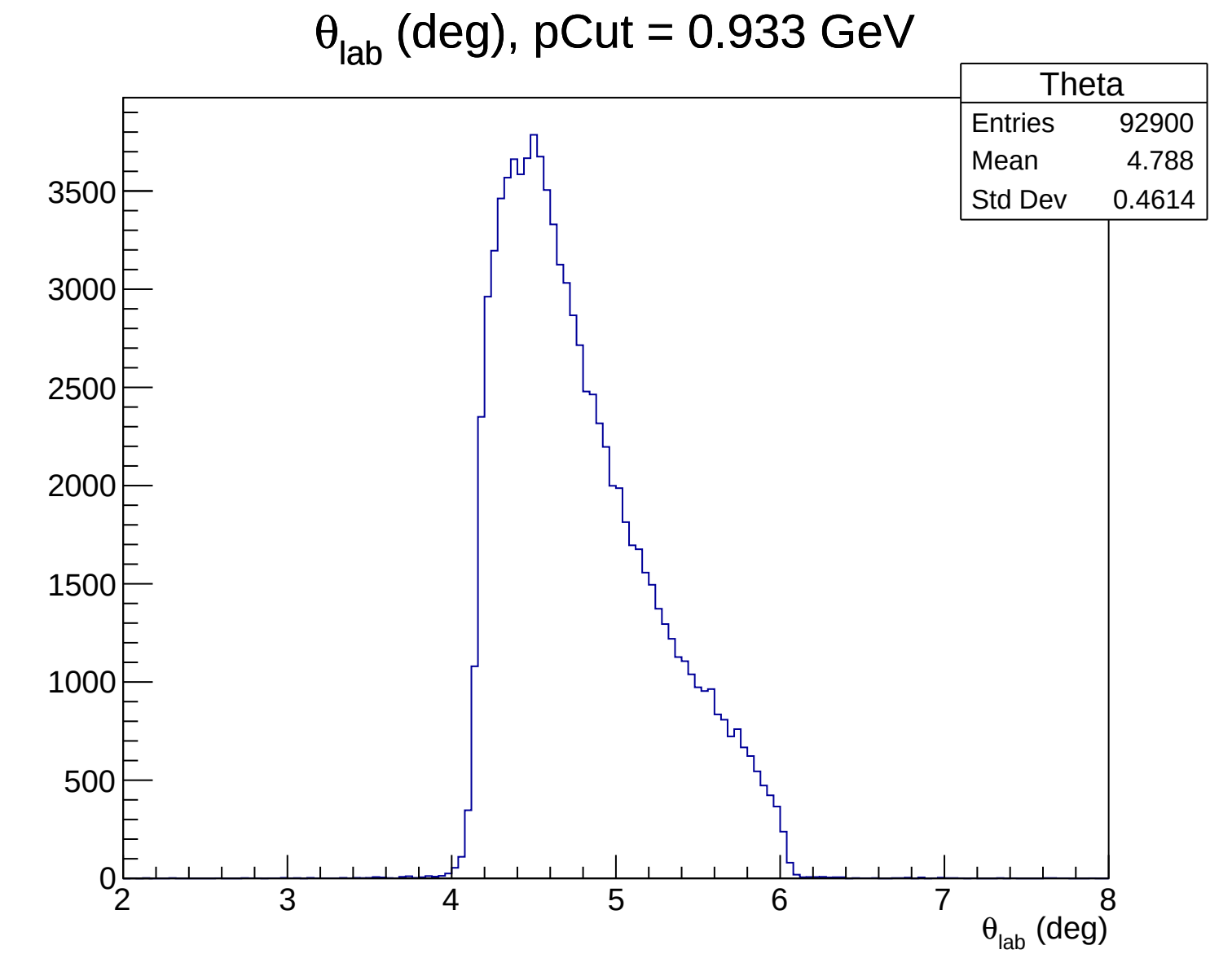

Stretched Asym. (ppm), pCut = 0.932 GeV
SAsym
Entries 94466
Mean 0.5575
Std Dev 0.07214
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

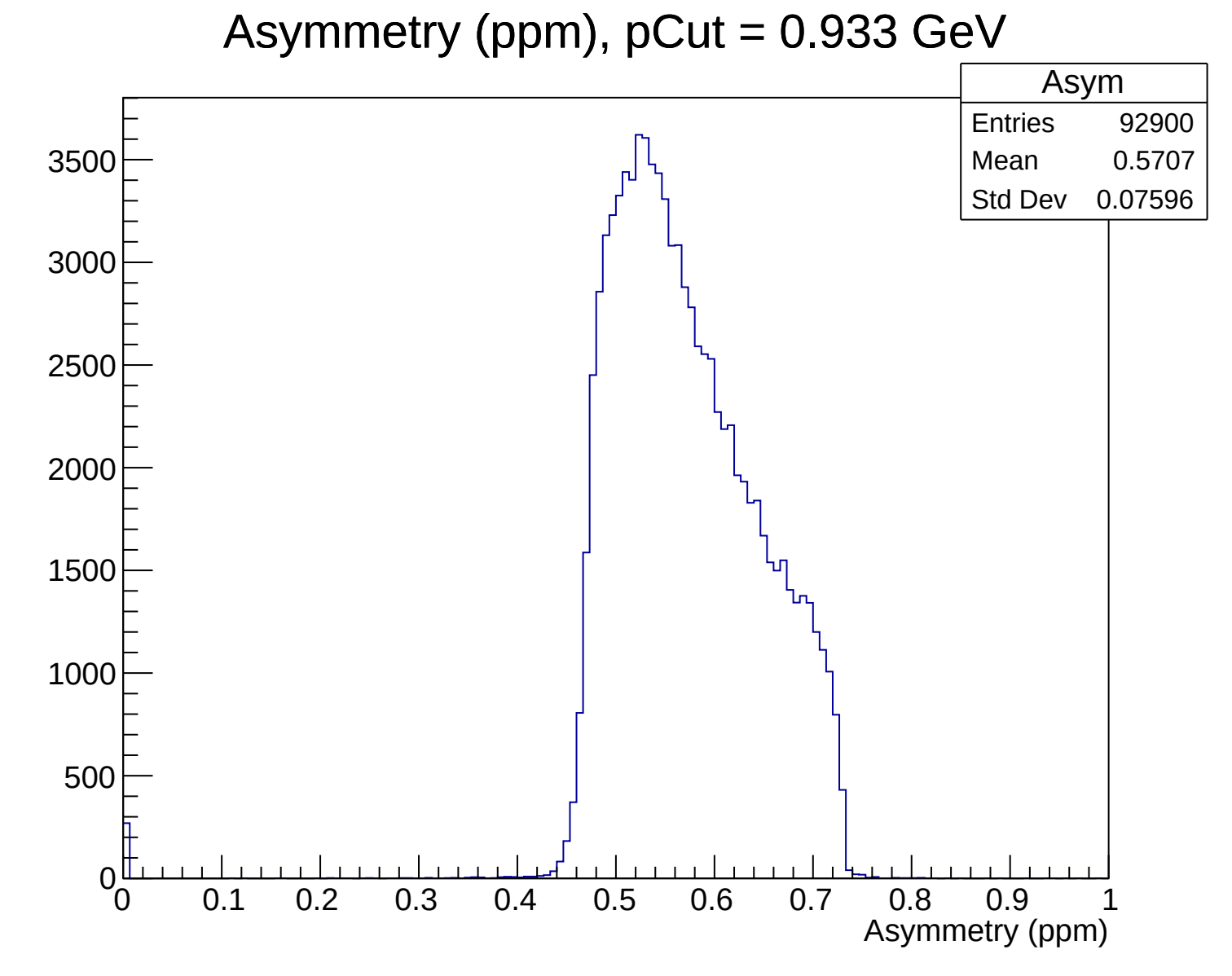

Q^2 (GeV/c)^2, pCut = 0.932 GeV
Q2
Entries 94466
Mean 0.006318
Std Dev 0.001249
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

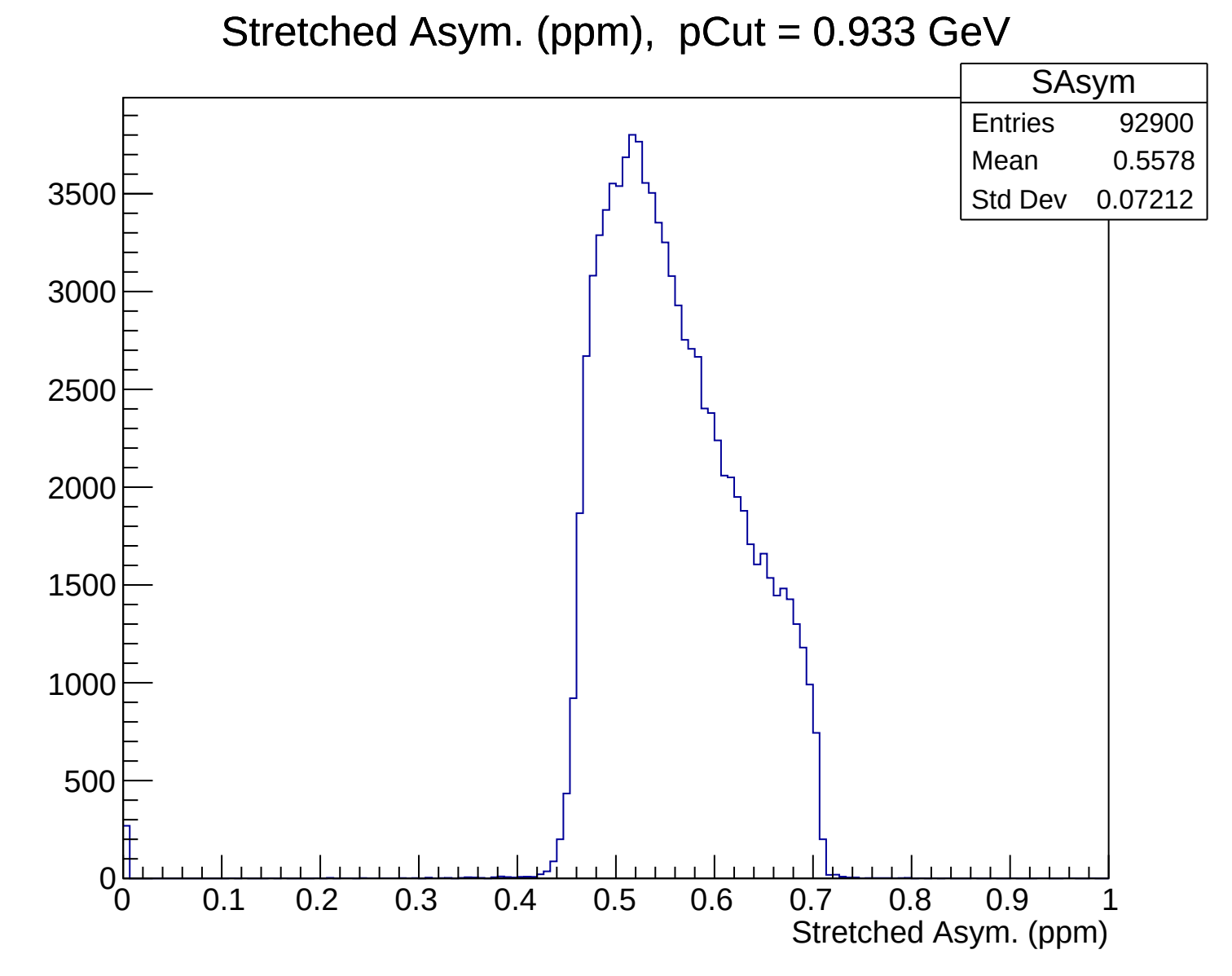

Sensitivity, pCut = 0.932 GeV
sens
Entries 94466
Mean 0.02217
Std Dev 0.003956
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

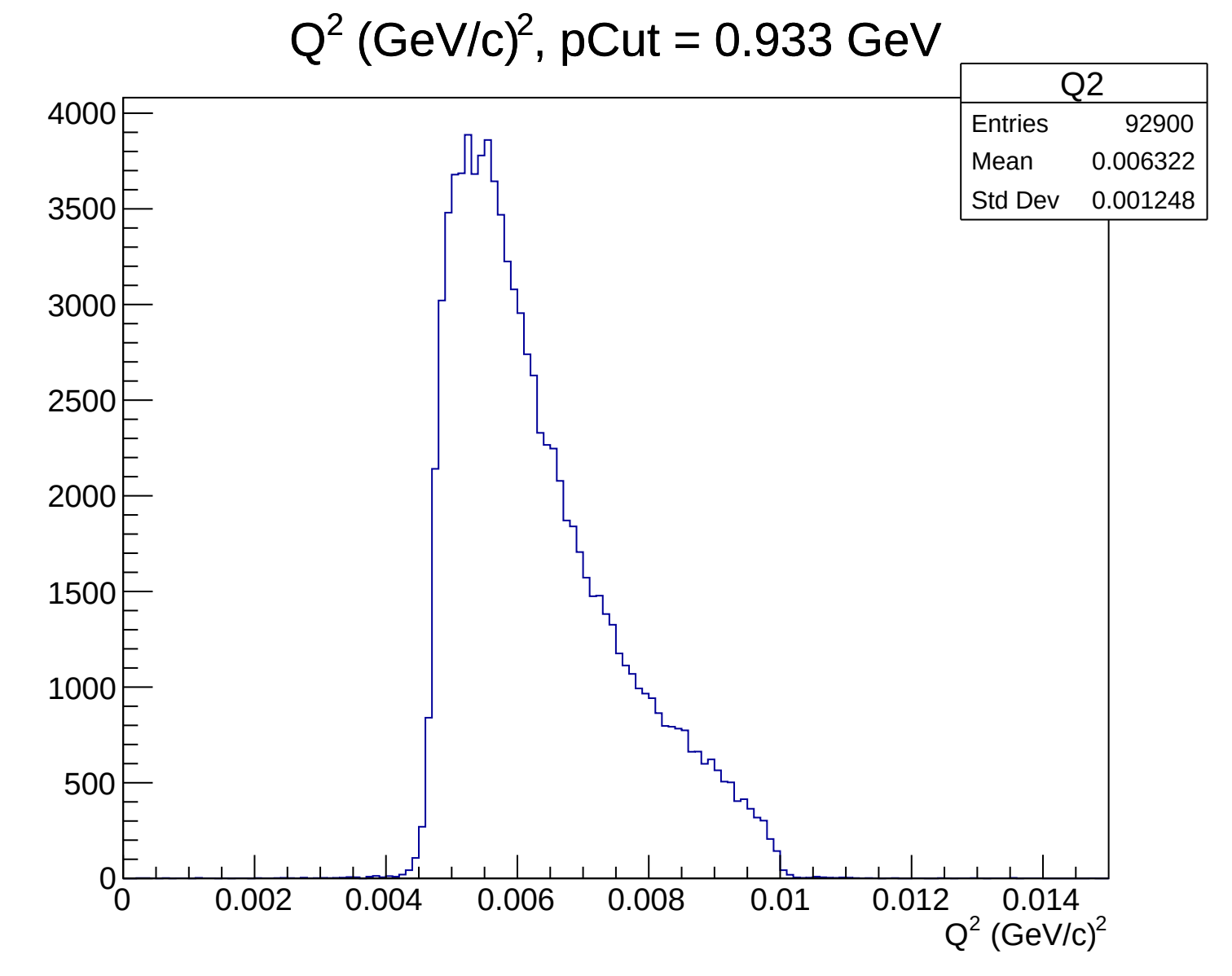

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

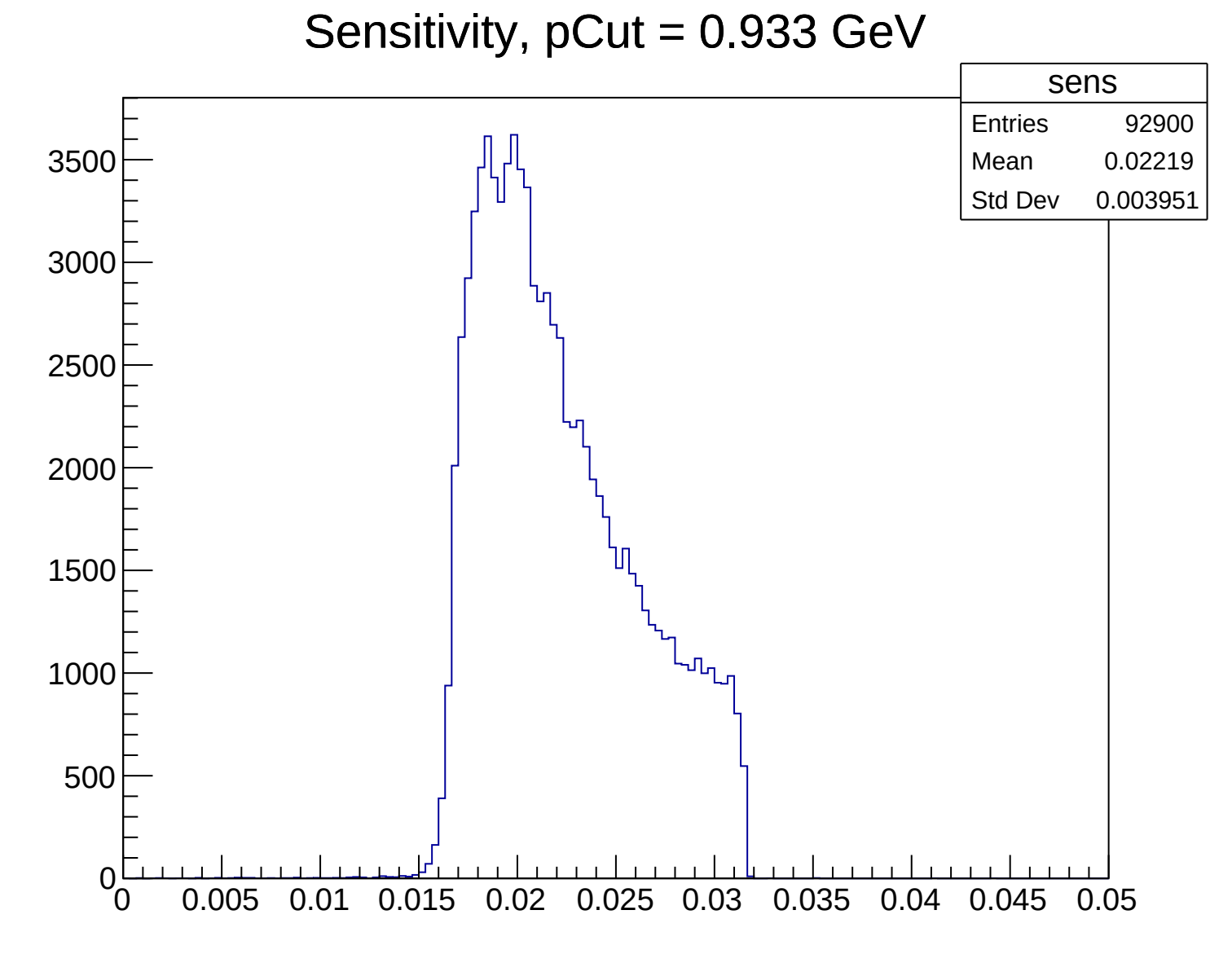

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9330 GeV
R.gold.p (GeV)

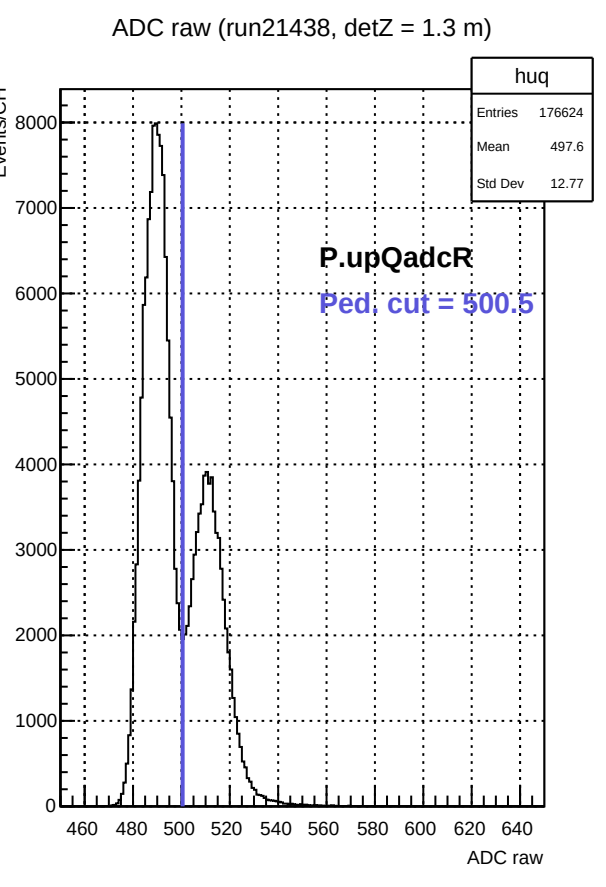

θlab (deg), pCut = 0.933 GeV
Theta
Entries 92900
Mean 4.788
Std Dev 0.4614
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

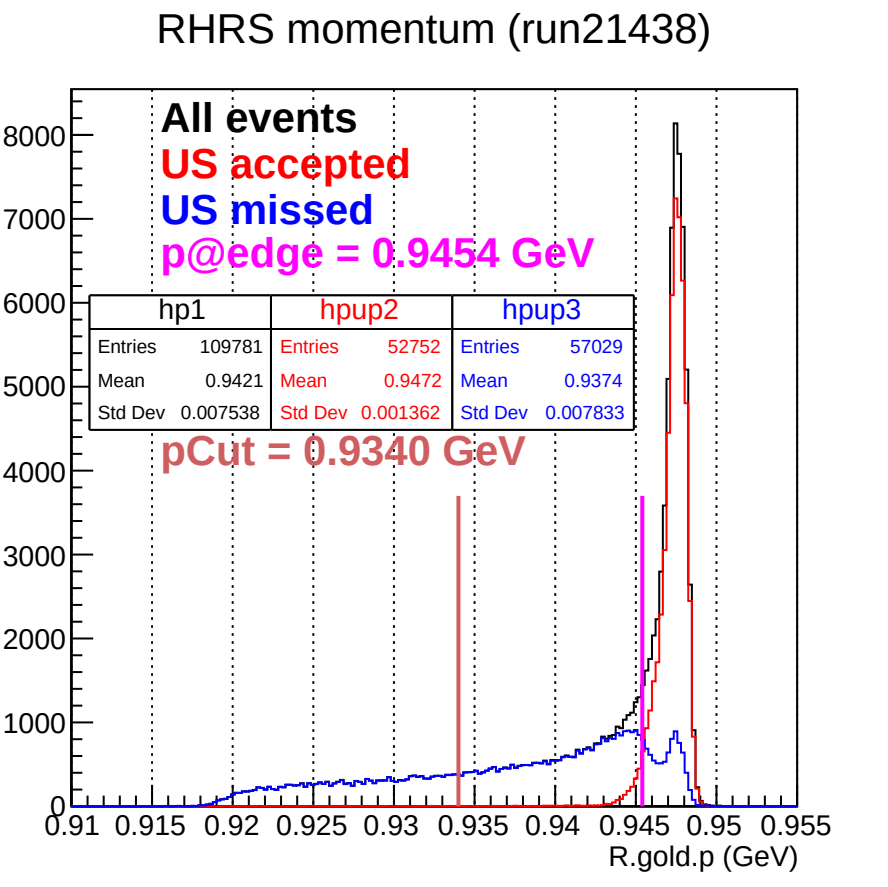

Asymmetry (ppm), pCut = 0.933 GeV
Asym
Entries 92900
Mean 0.5707
Std Dev 0.07596
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

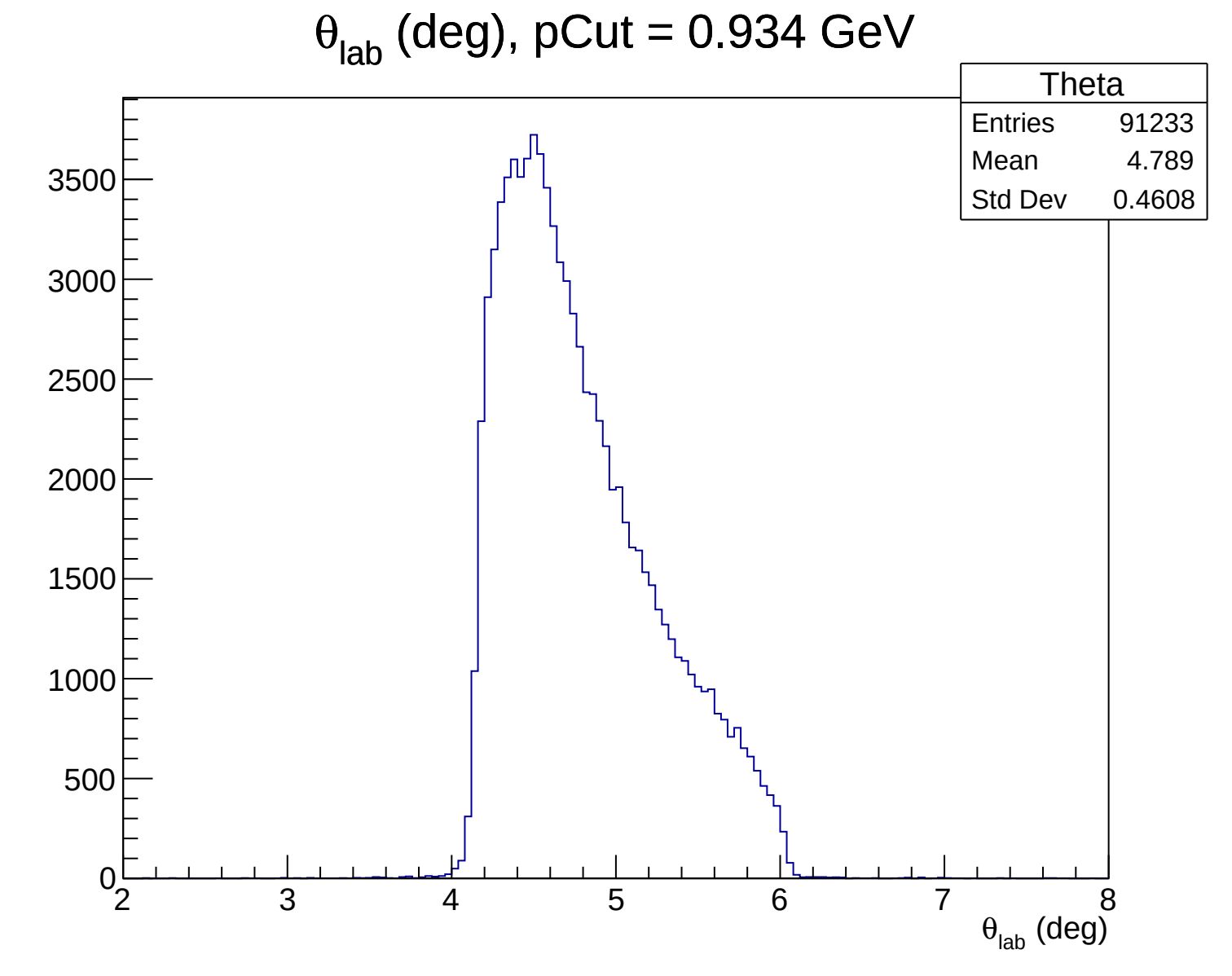

Stretched Asym. (ppm), pCut = 0.933 GeV
SAsym
Entries 92900
Mean 0.5578
Std Dev 0.07212
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

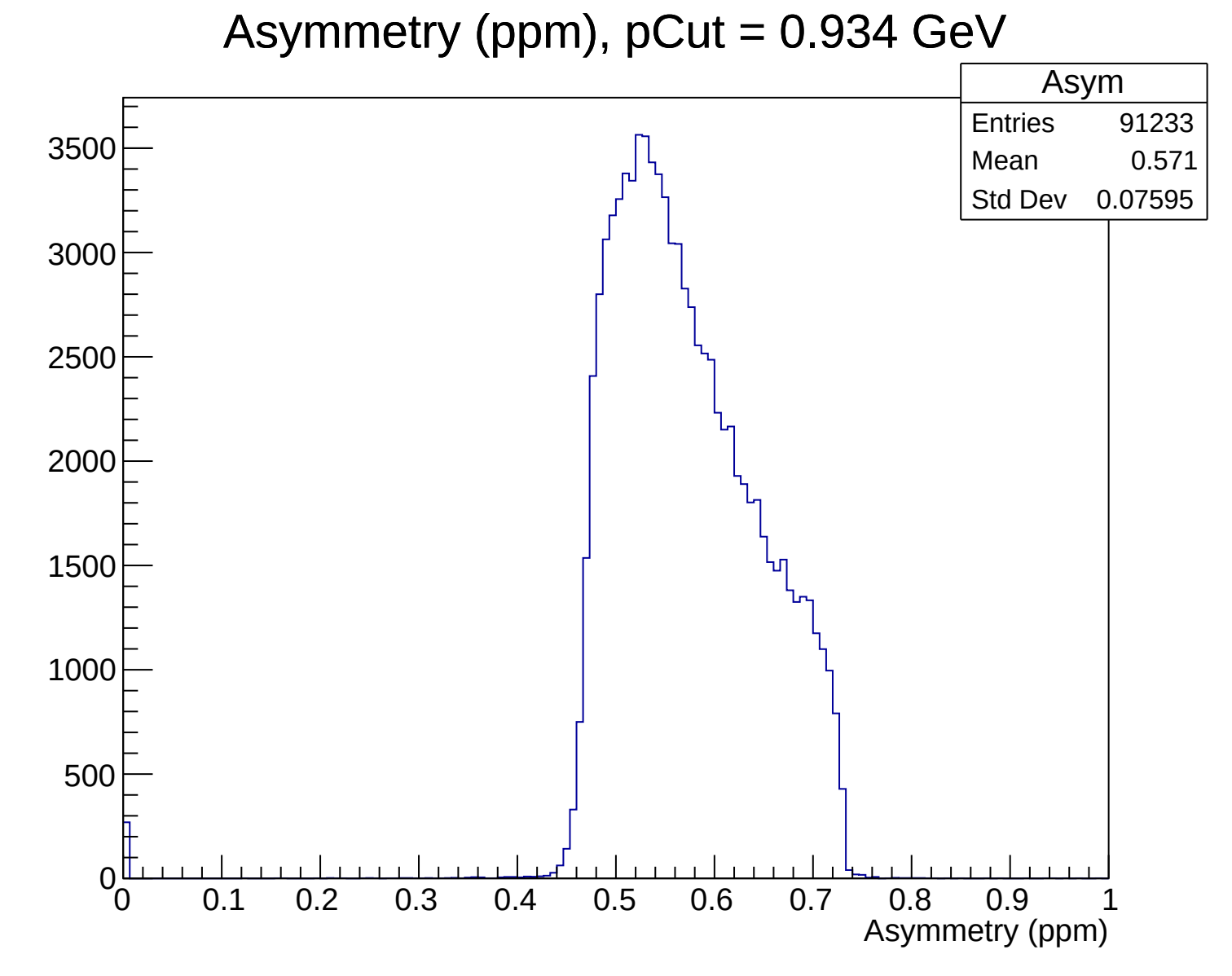

Q^2 (GeV/c)^2, pCut = 0.933 GeV
Q2
Entries 92900
Mean 0.006322
Std Dev 0.001248
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

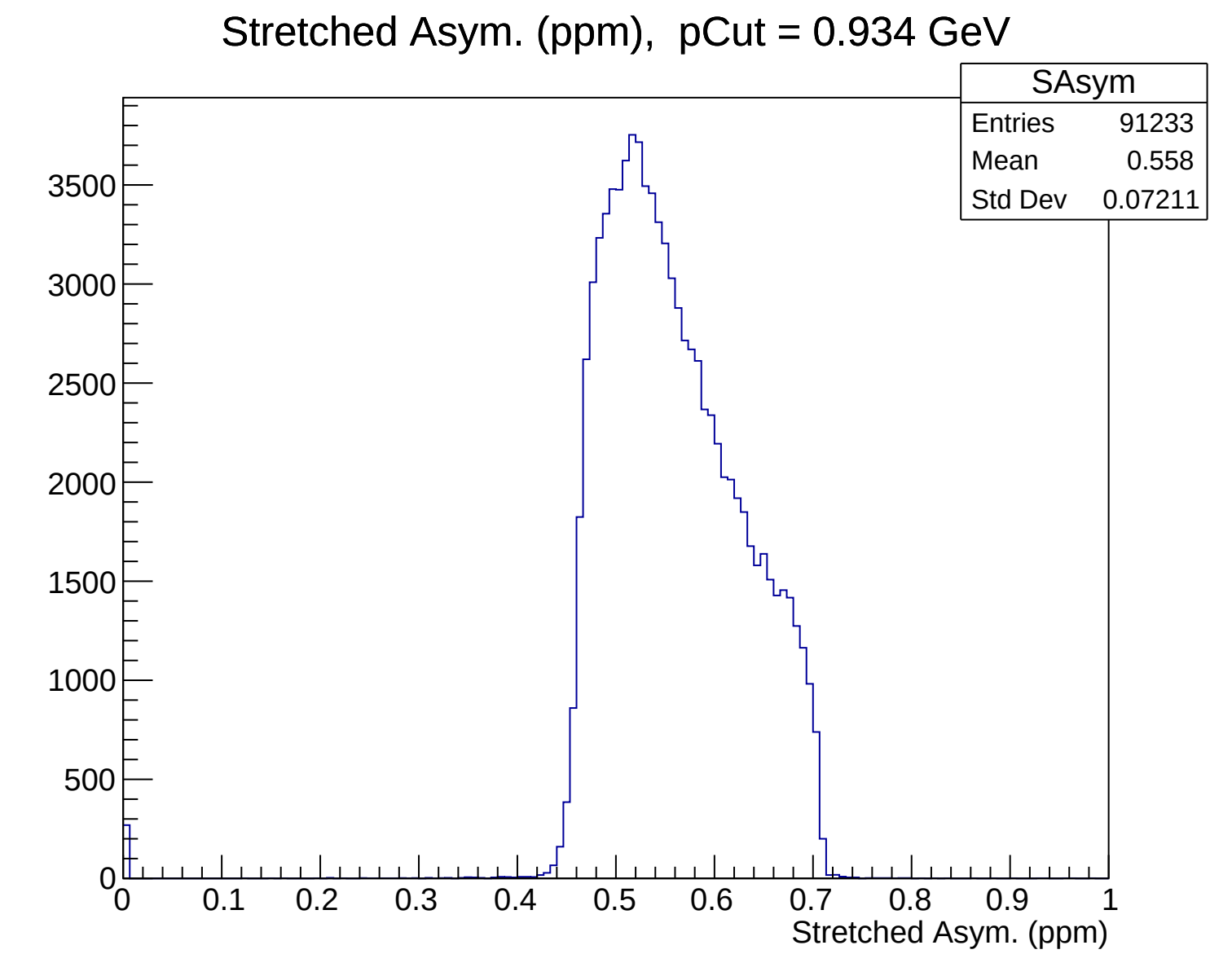

Sensitivity, pCut = 0.933 GeV
sens
Entries 92900
Mean 0.02219
Std Dev 0.003951
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

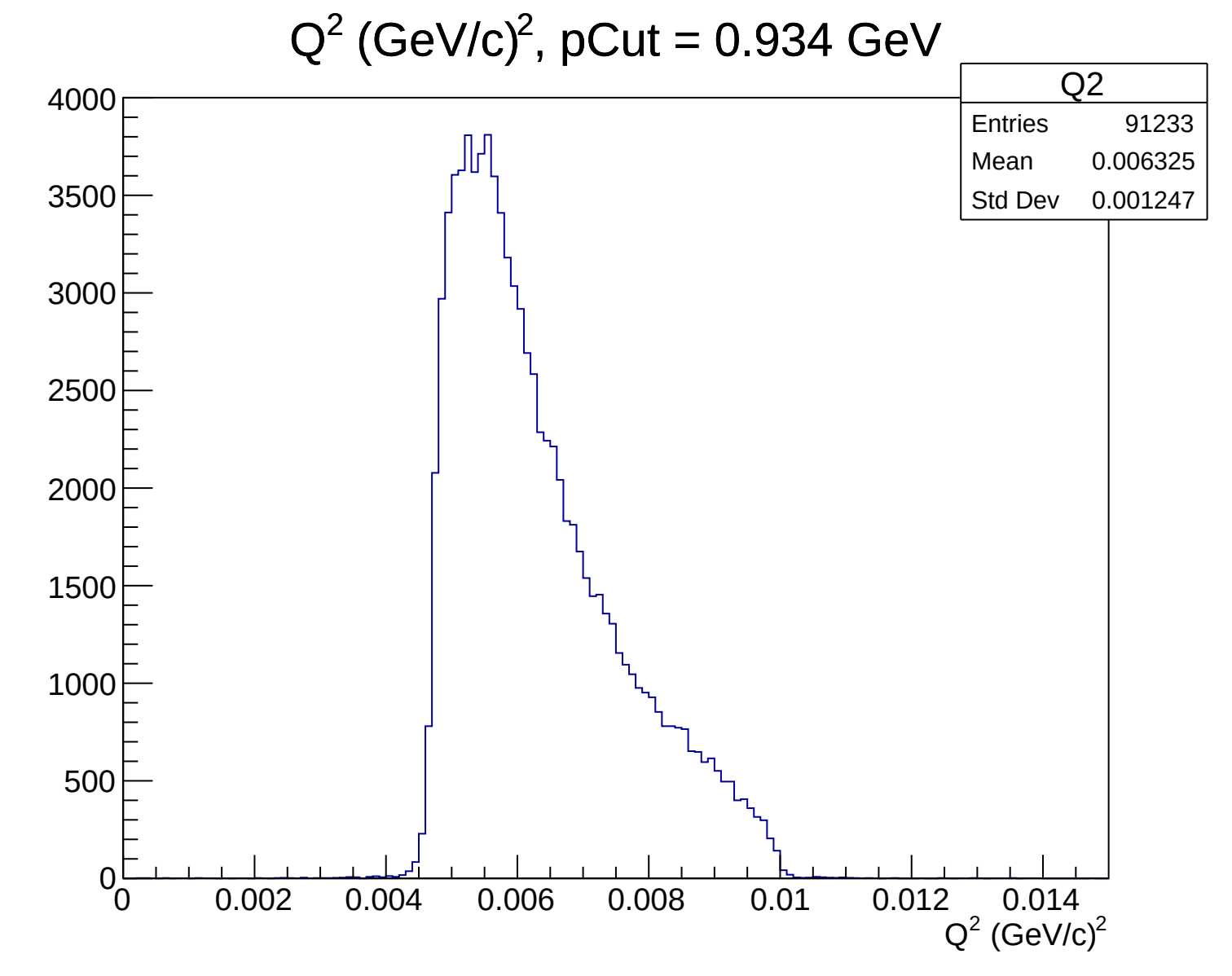

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

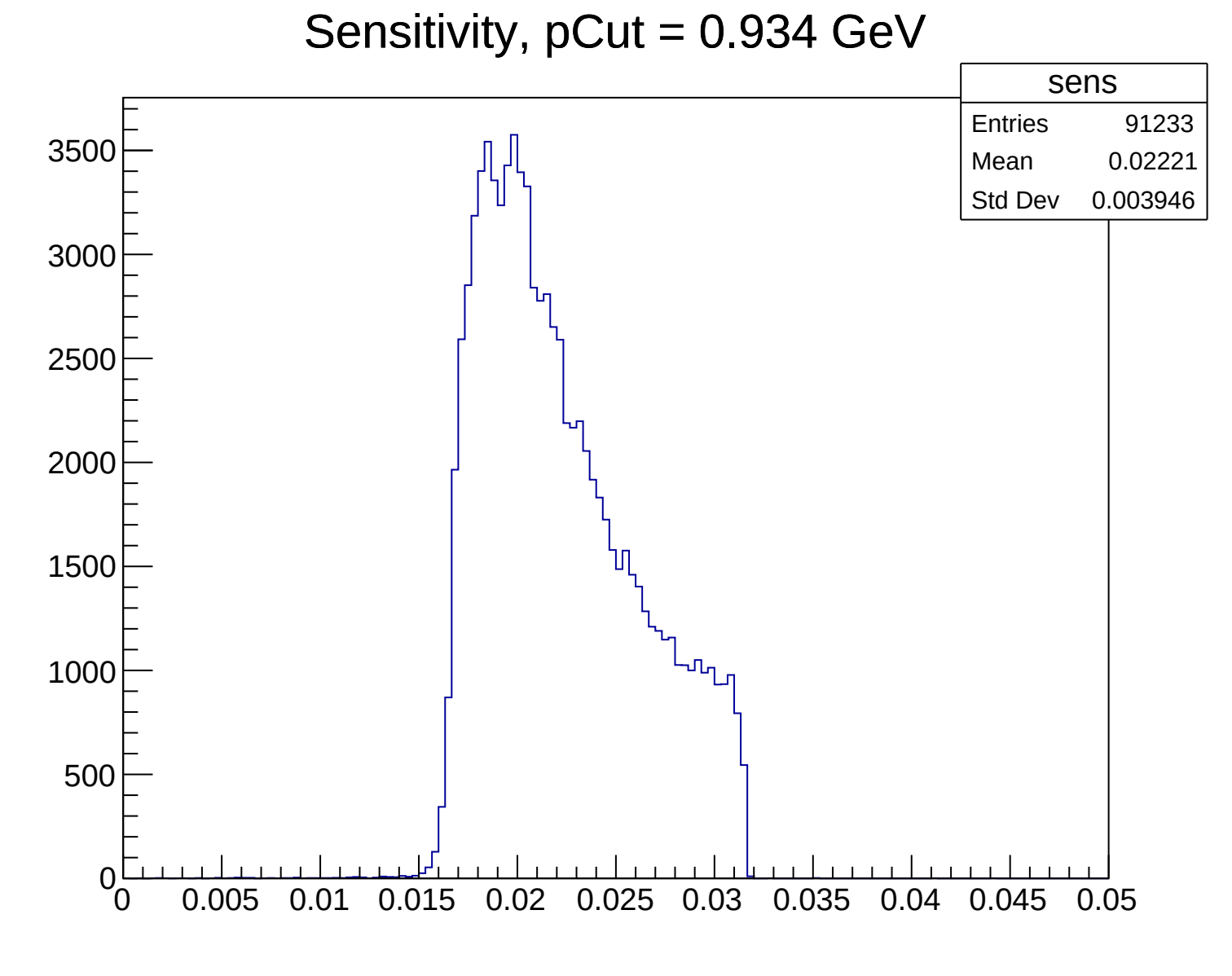

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9340 GeV
R.gold.p (GeV)

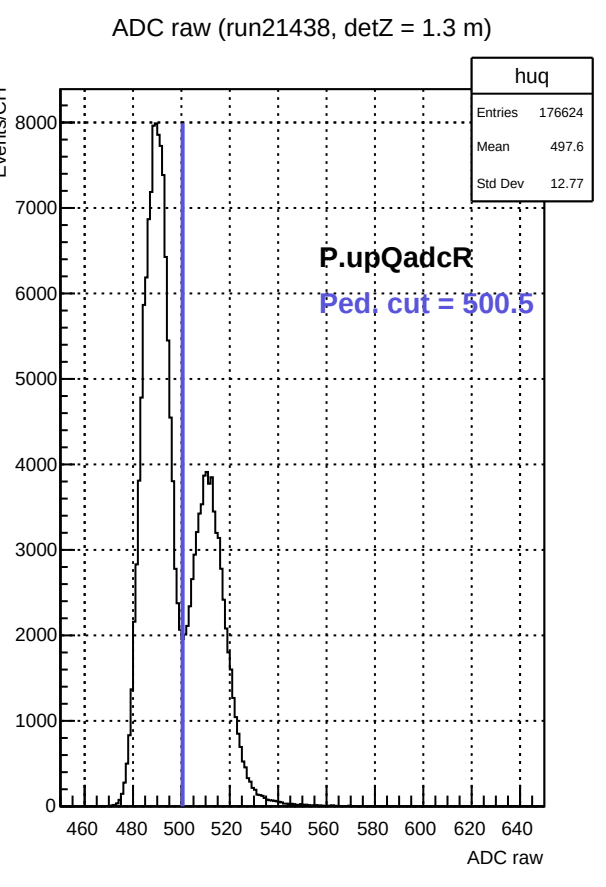

θlab (deg), pCut = 0.934 GeV
Theta
Entries 91233
Mean 4.789
Std Dev 0.4608
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

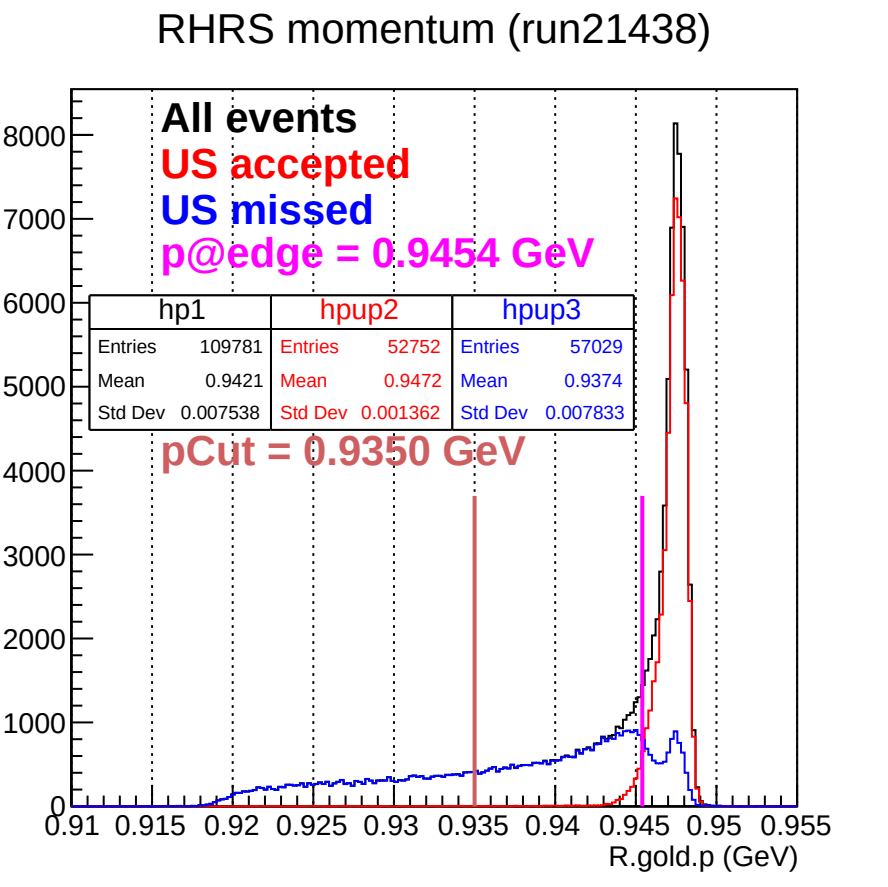

Asymmetry (ppm), pCut = 0.934 GeV
Asym
Entries 91233
Mean 0.571
Std Dev 0.07595
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

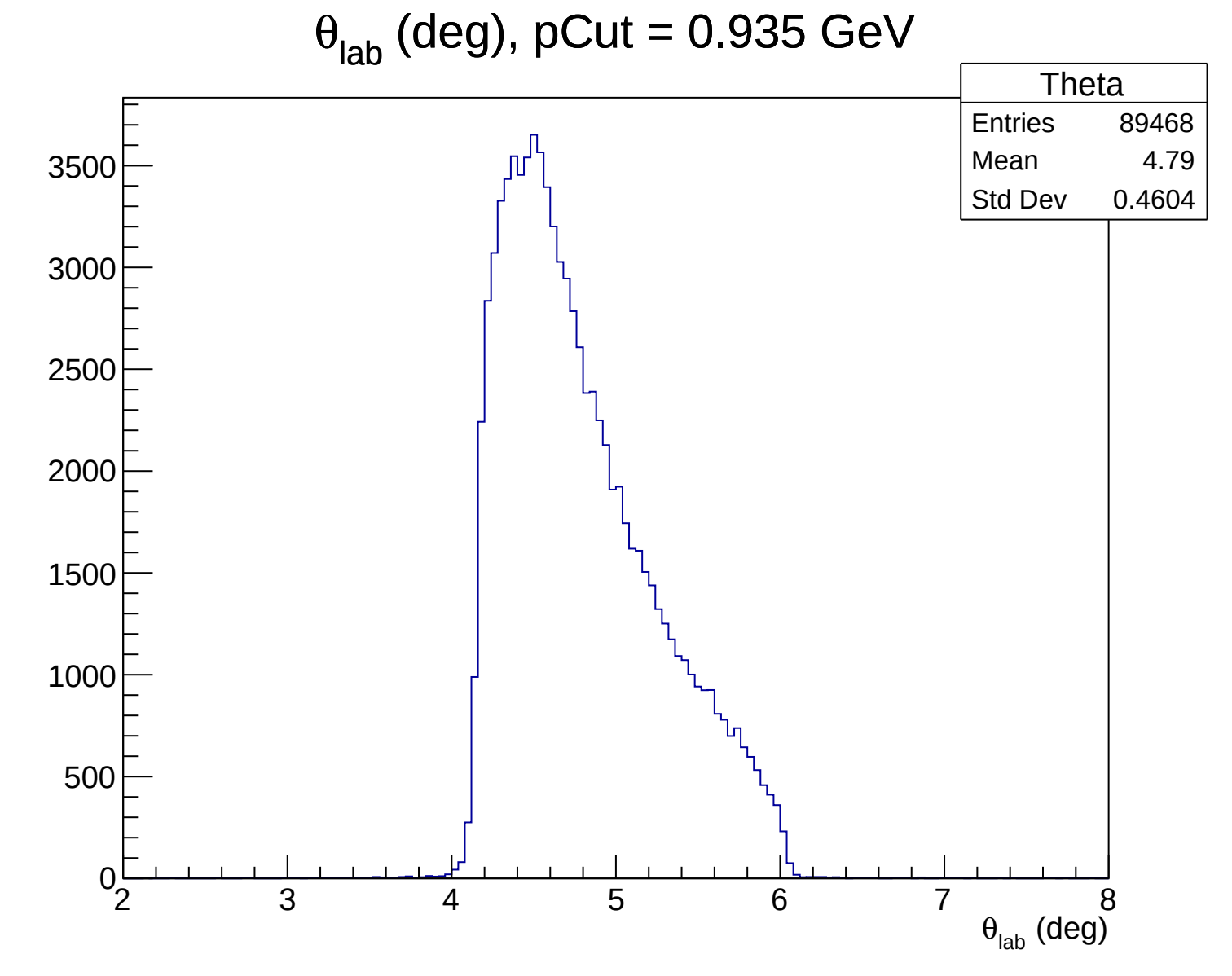

Stretched Asym. (ppm), pCut = 0.934 GeV
SAsym
Entries 91233
Mean 0.558
Std Dev 0.07211
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

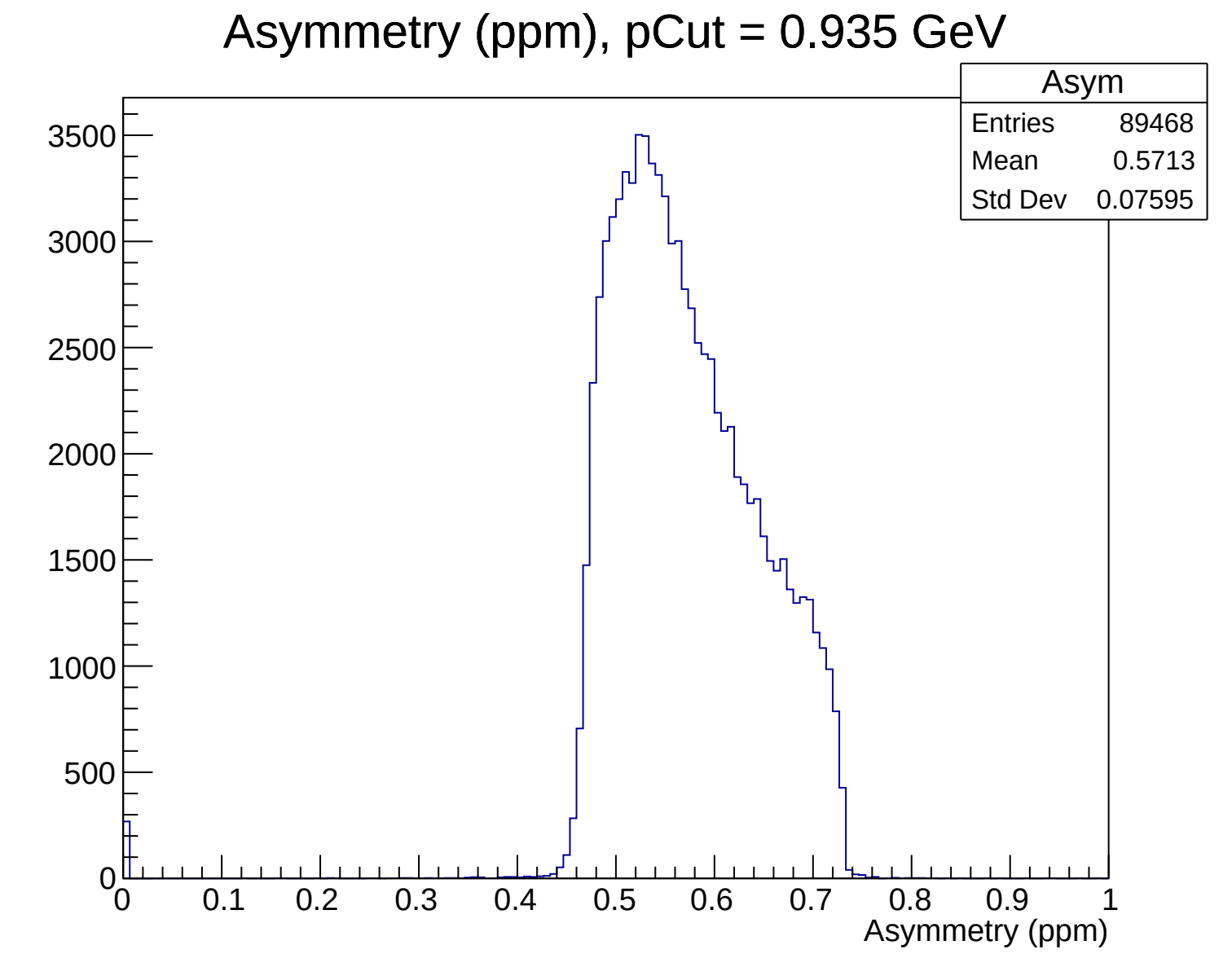

Q^2 (GeV/c)^2, pCut = 0.934 GeV
Q2
Entries 91233
Mean 0.006325
Std Dev 0.001247
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

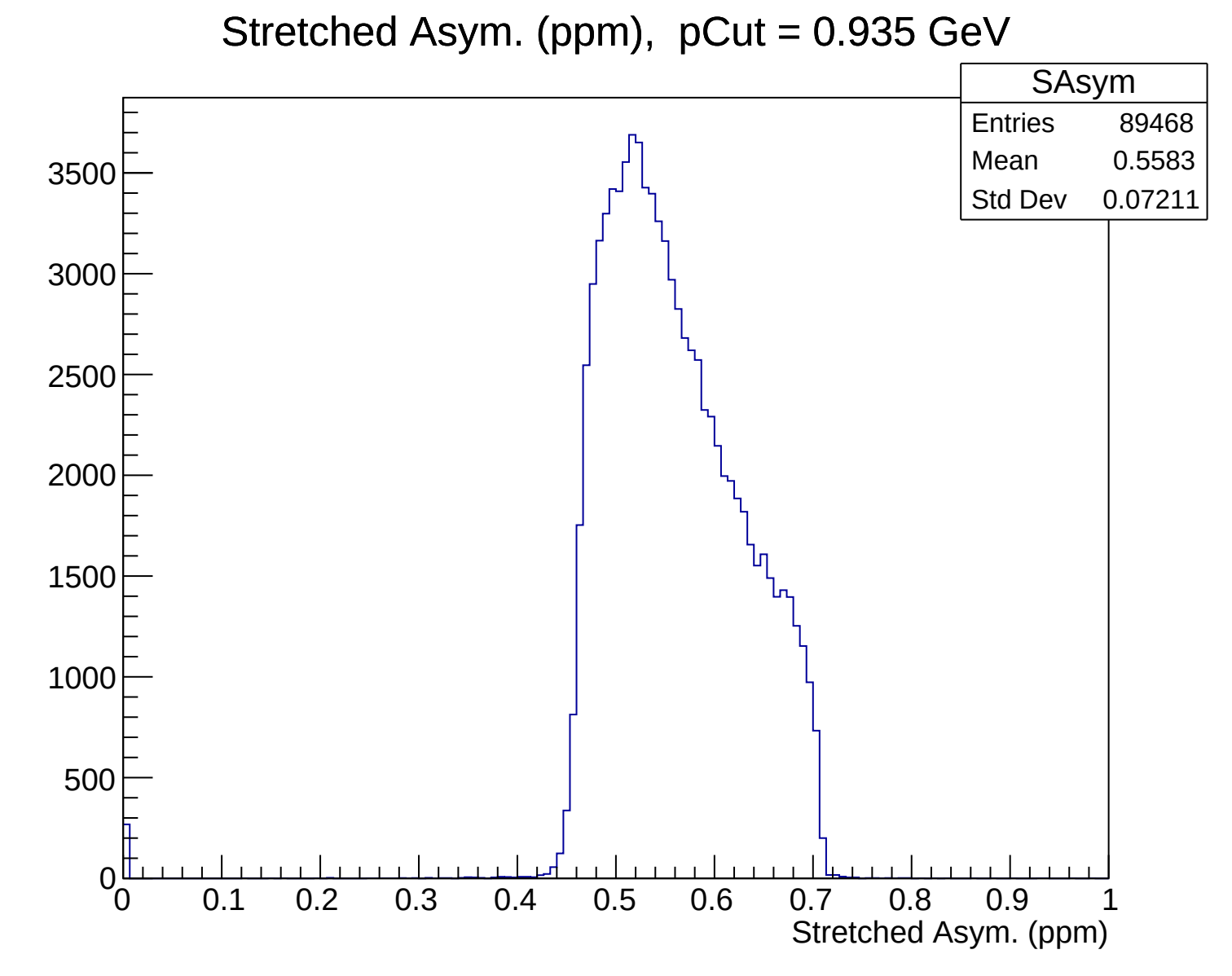

Sensitivity, pCut = 0.934 GeV
sens
Entries 91233
Mean 0.02221
Std Dev 0.003946
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

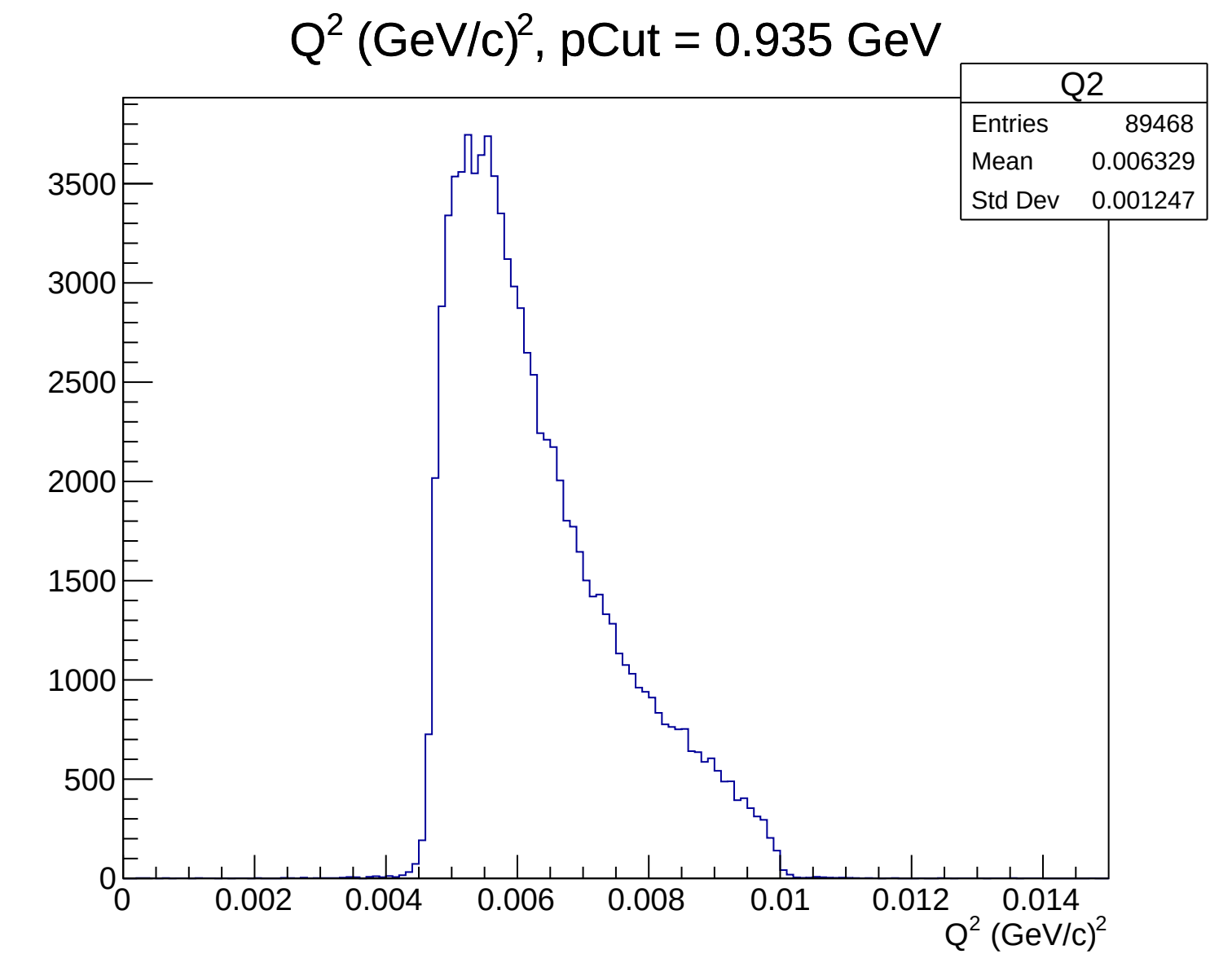

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

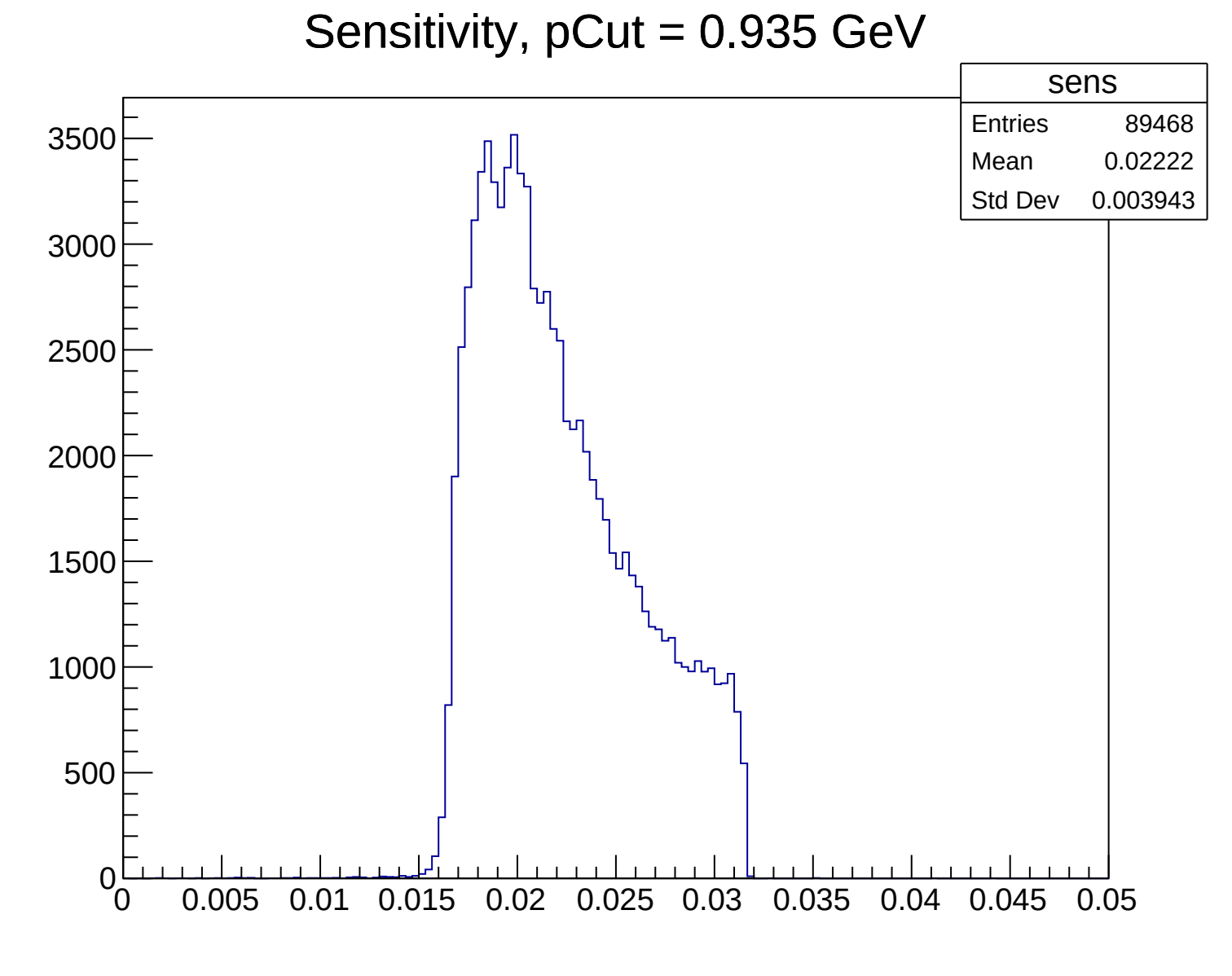

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9350 GeV
R.gold.p (GeV)

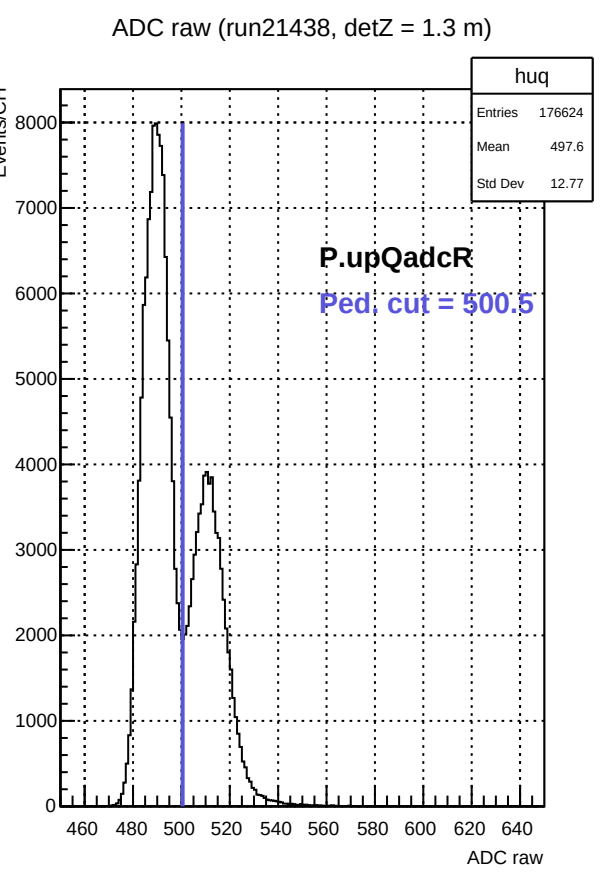

θlab (deg), pCut = 0.935 GeV
Theta
Entries 89468
Mean 4.79
Std Dev 0.4604
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

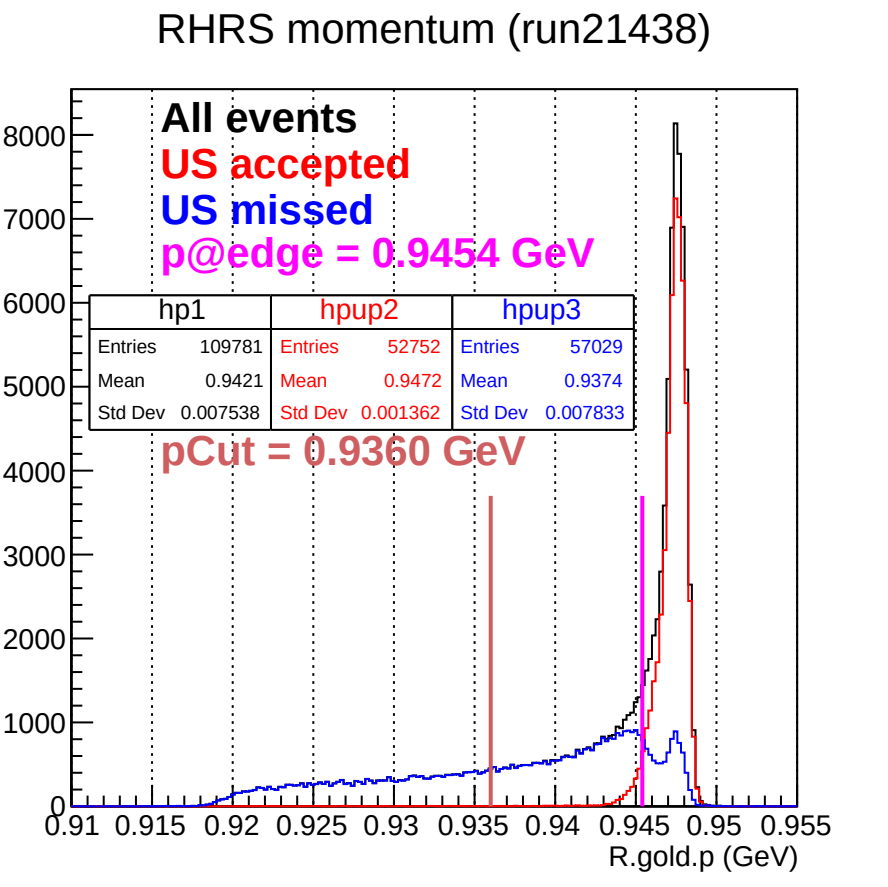

Asymmetry (ppm), pCut = 0.935 GeV
Asym
Entries 89468
Mean 0.5713
Std Dev 0.07595
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

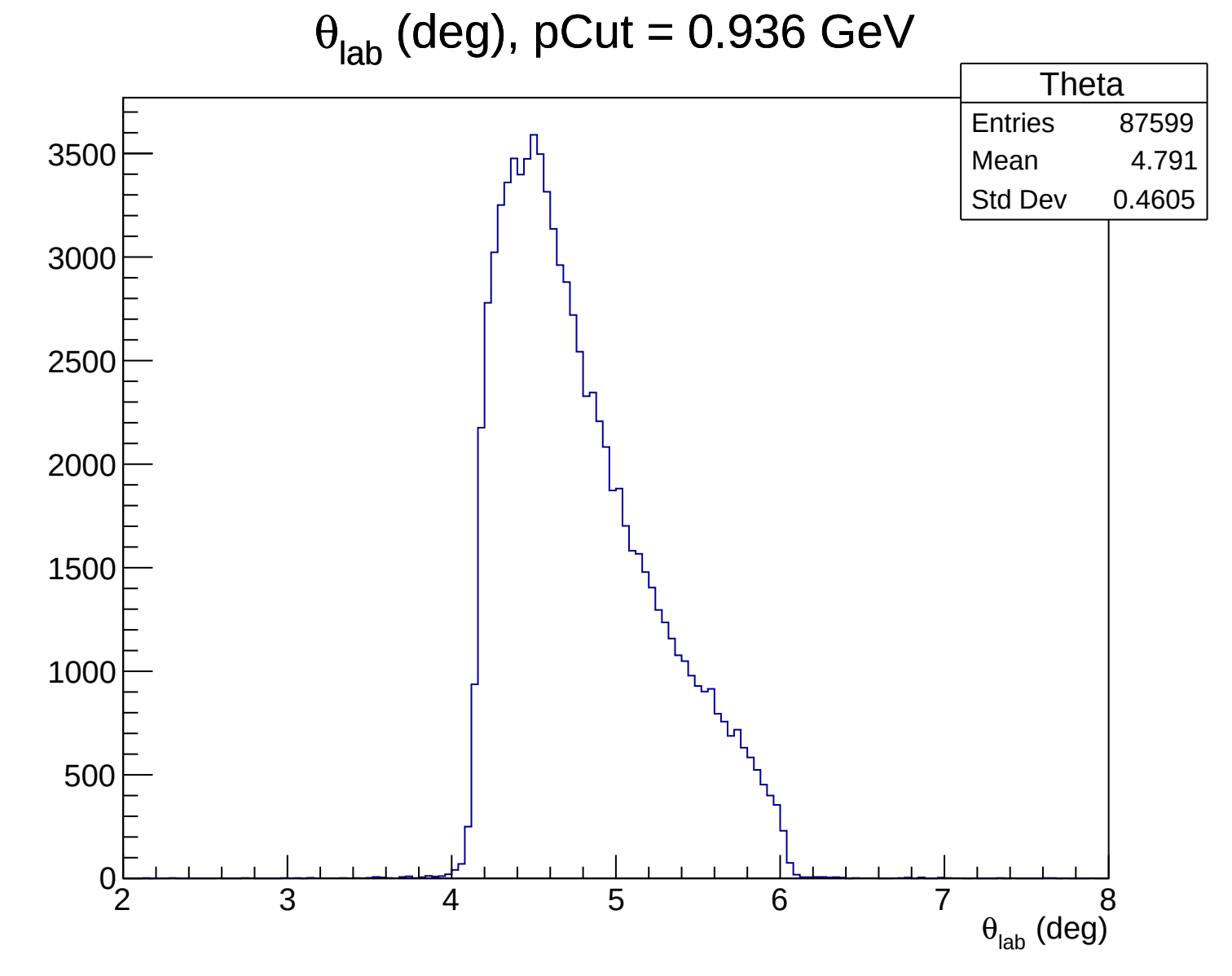

Stretched Asym. (ppm), pCut = 0.935 GeV
SAsym
Entries 89468
Mean 0.5583
Std Dev 0.07211
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

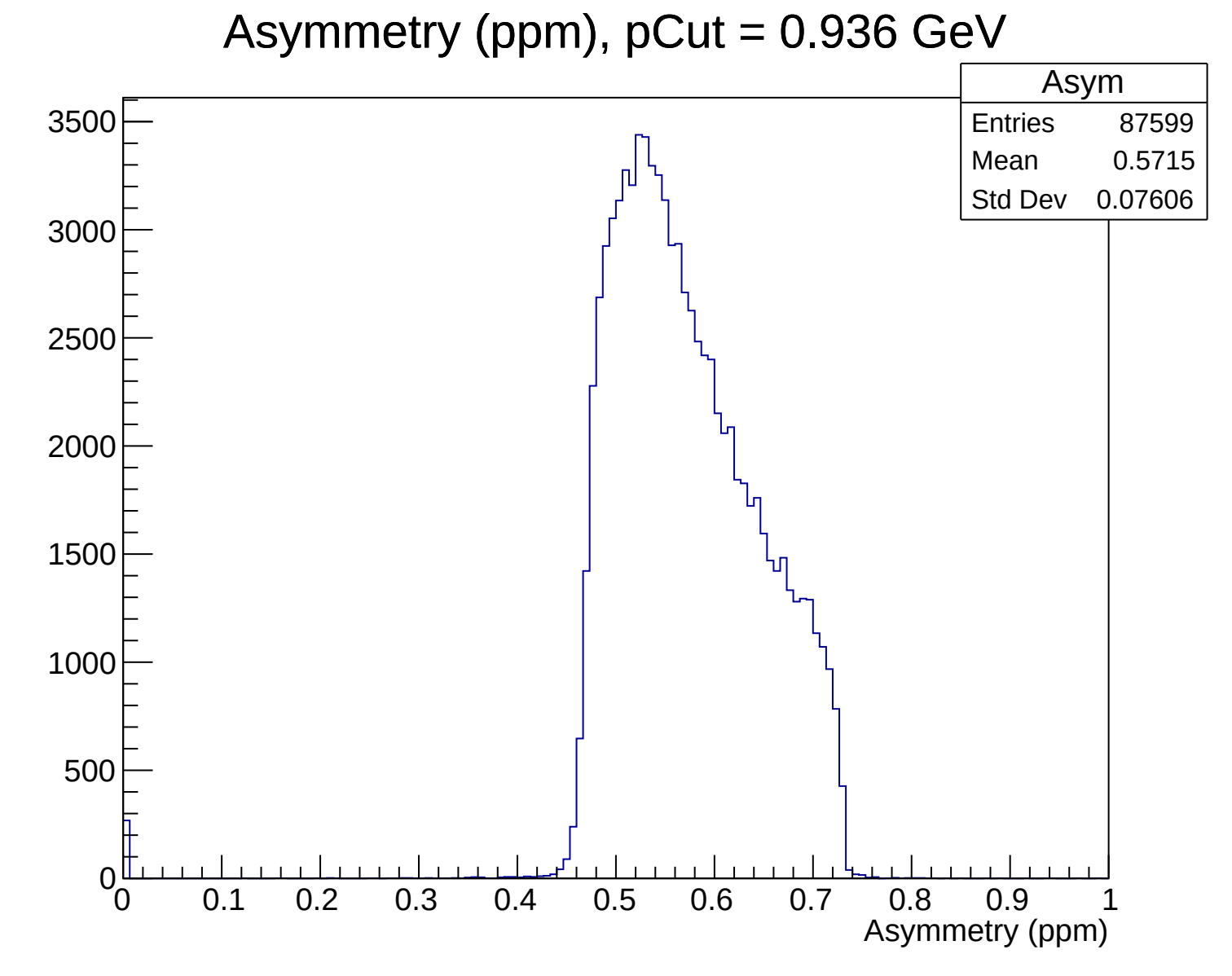

Q^2 (GeV/c)^2, pCut = 0.935 GeV
Q2
Entries 89468
Mean 0.006329
Std Dev 0.001247
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

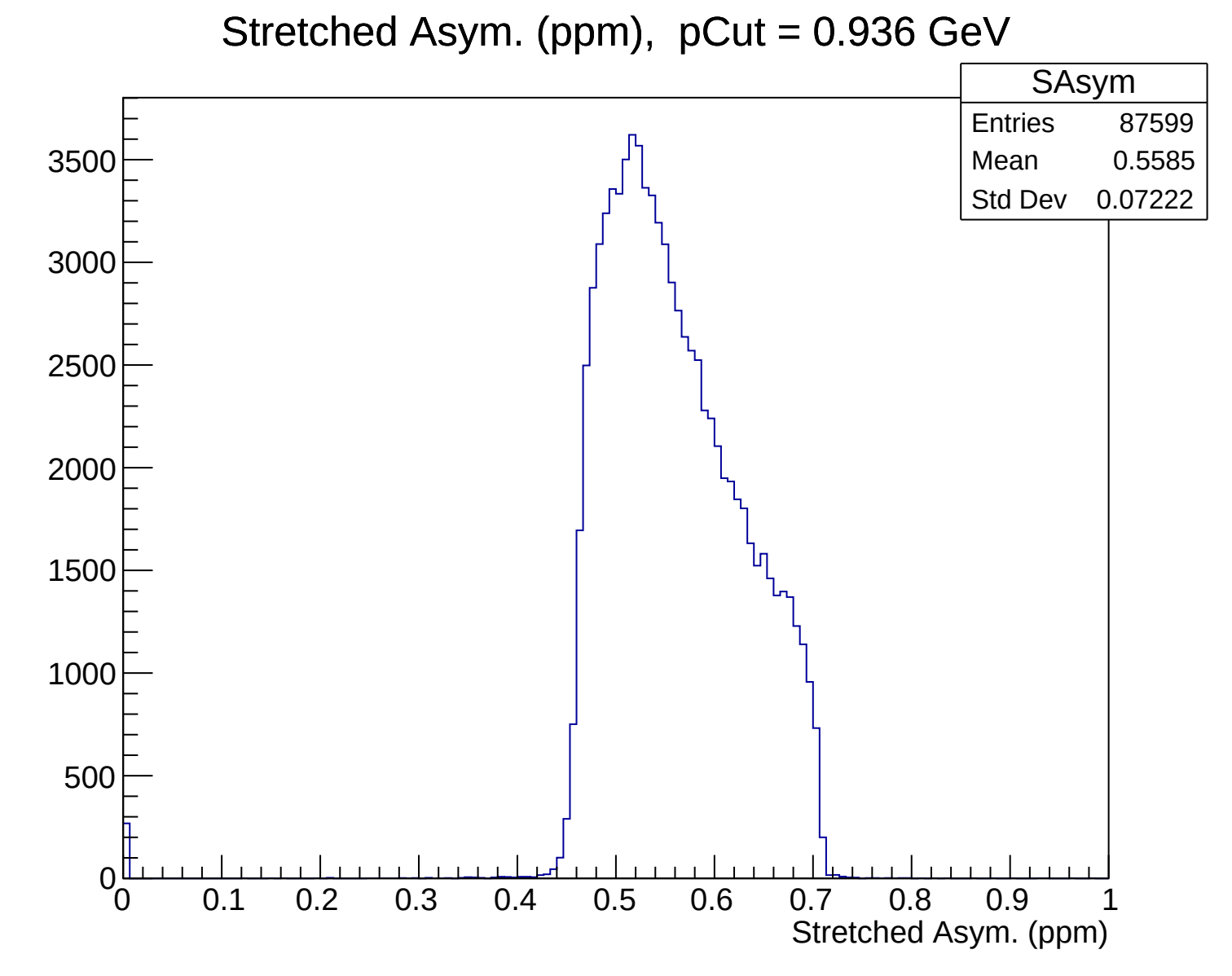

Sensitivity, pCut = 0.935 GeV
sens
Entries 89468
Mean 0.02222
Std Dev 0.003943
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

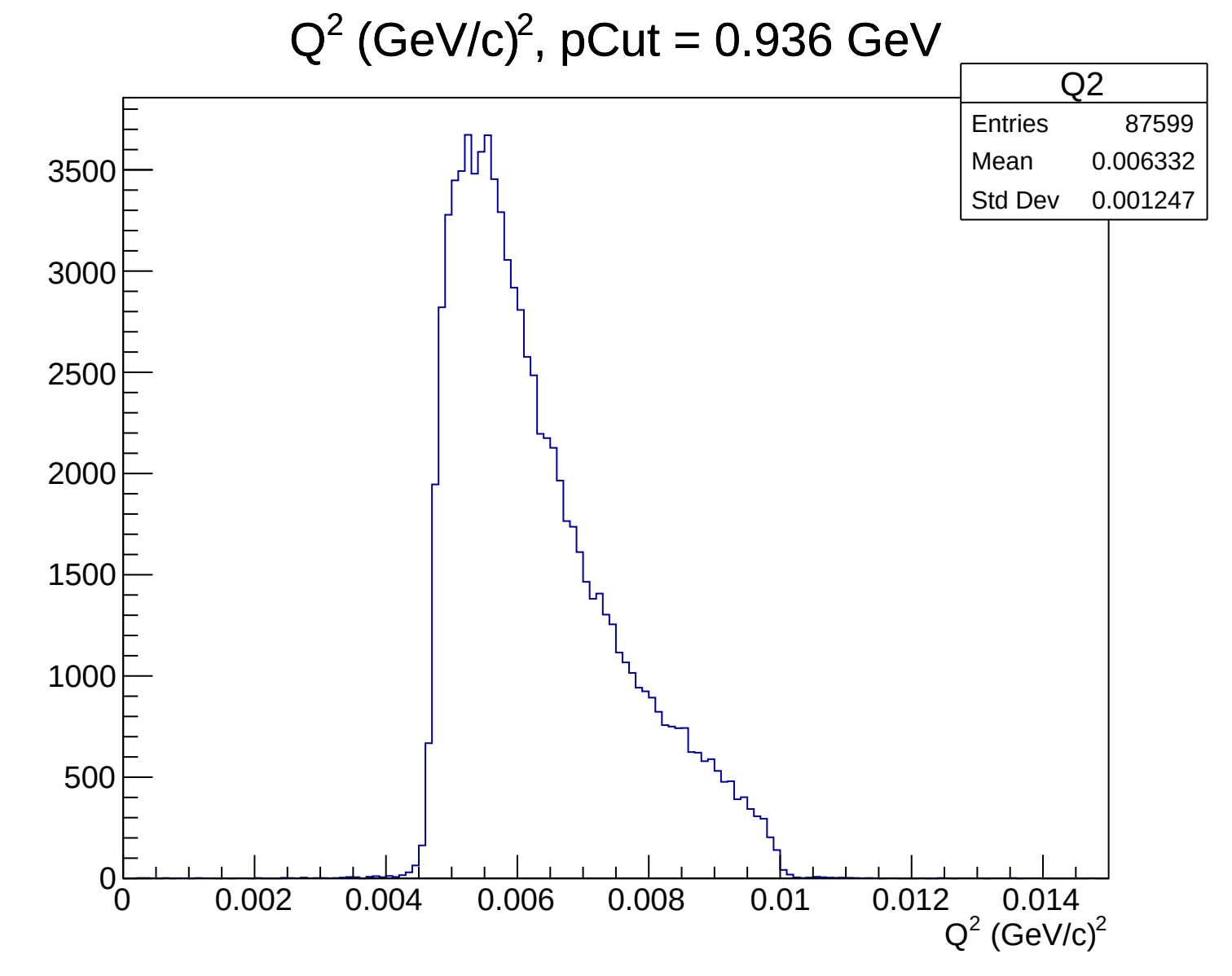

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

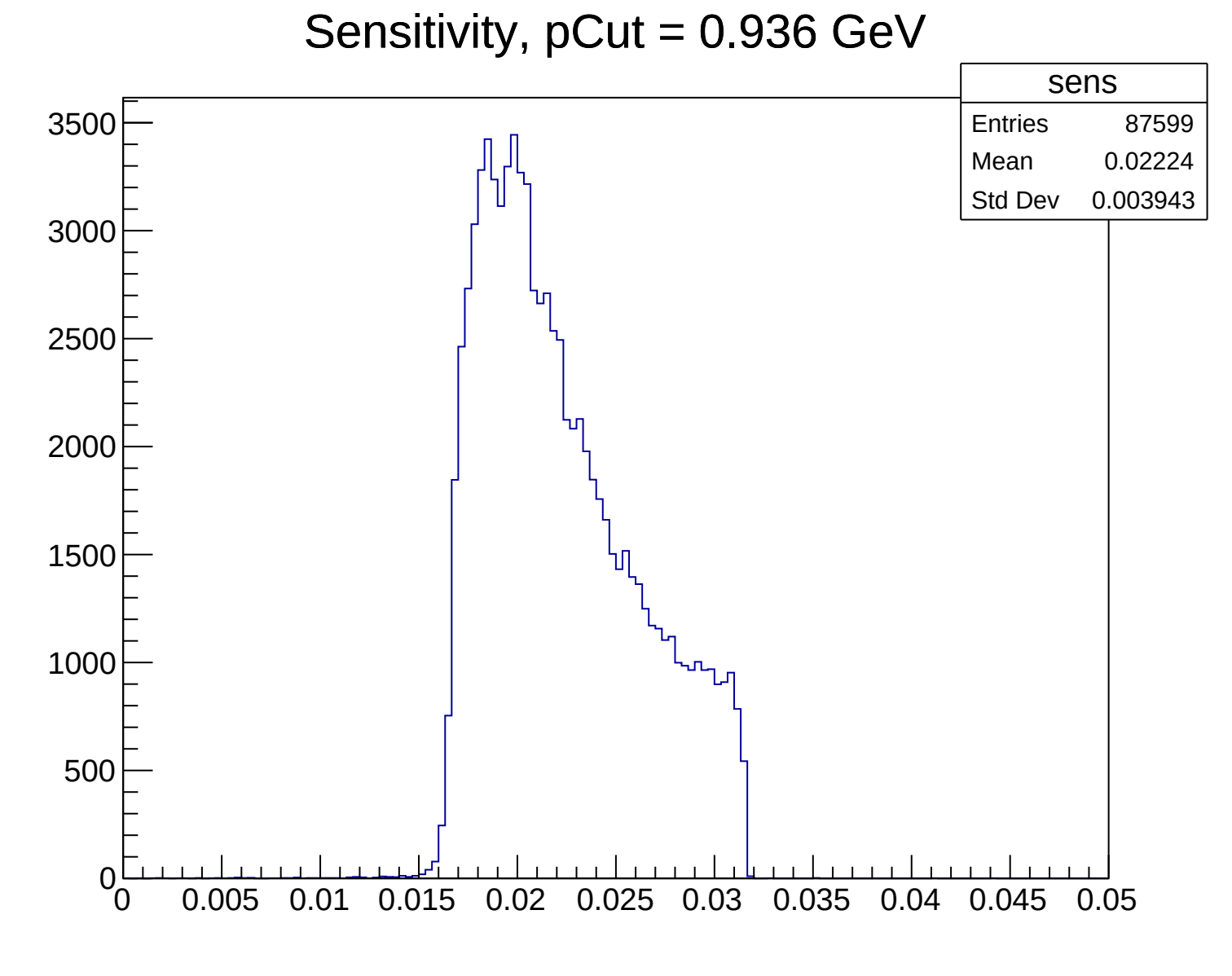

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9360 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.936 GeV
Theta
Entries 87599
Mean 4.791
Std Dev 0.4605
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

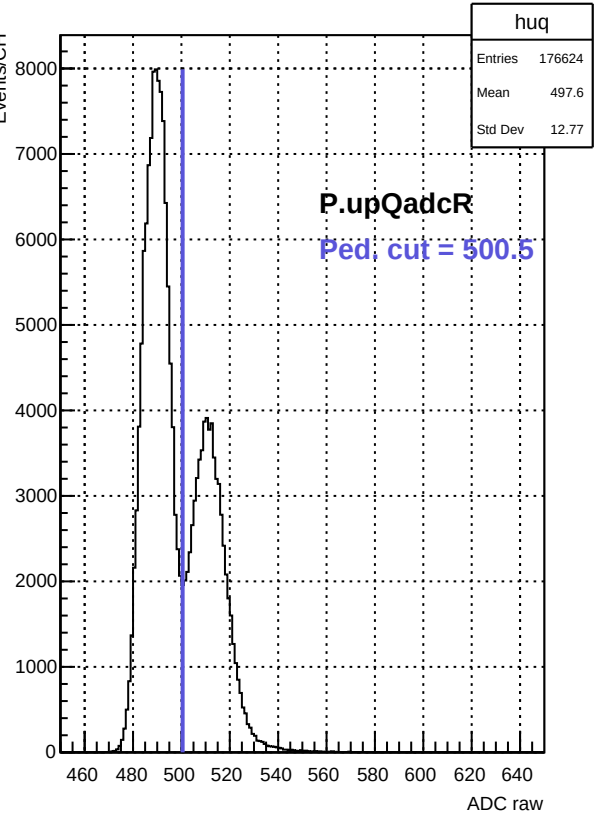

Asymmetry (ppm), pCut = 0.936 GeV
Asym
Entries 87599
Mean 0.5715
Std Dev 0.07606
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.936 GeV
SAsym
Entries 87599
Mean 0.5585
Std Dev 0.07222
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)

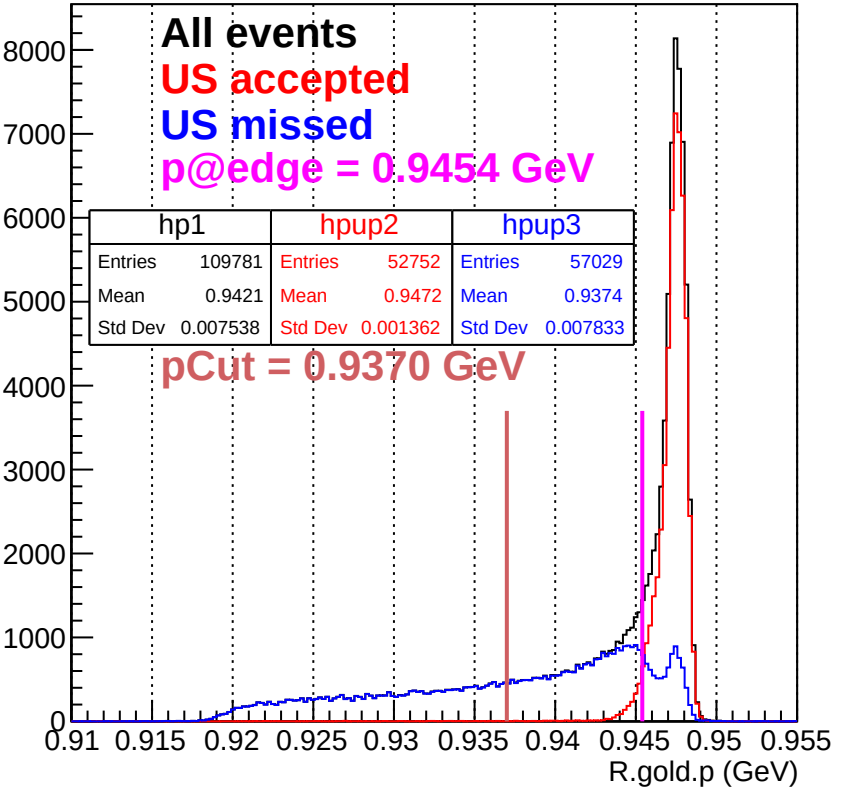

Q^2 (GeV/c)^2, pCut = 0.936 GeV
Q2
Entries 87599
Mean 0.006332
Std Dev 0.001247
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

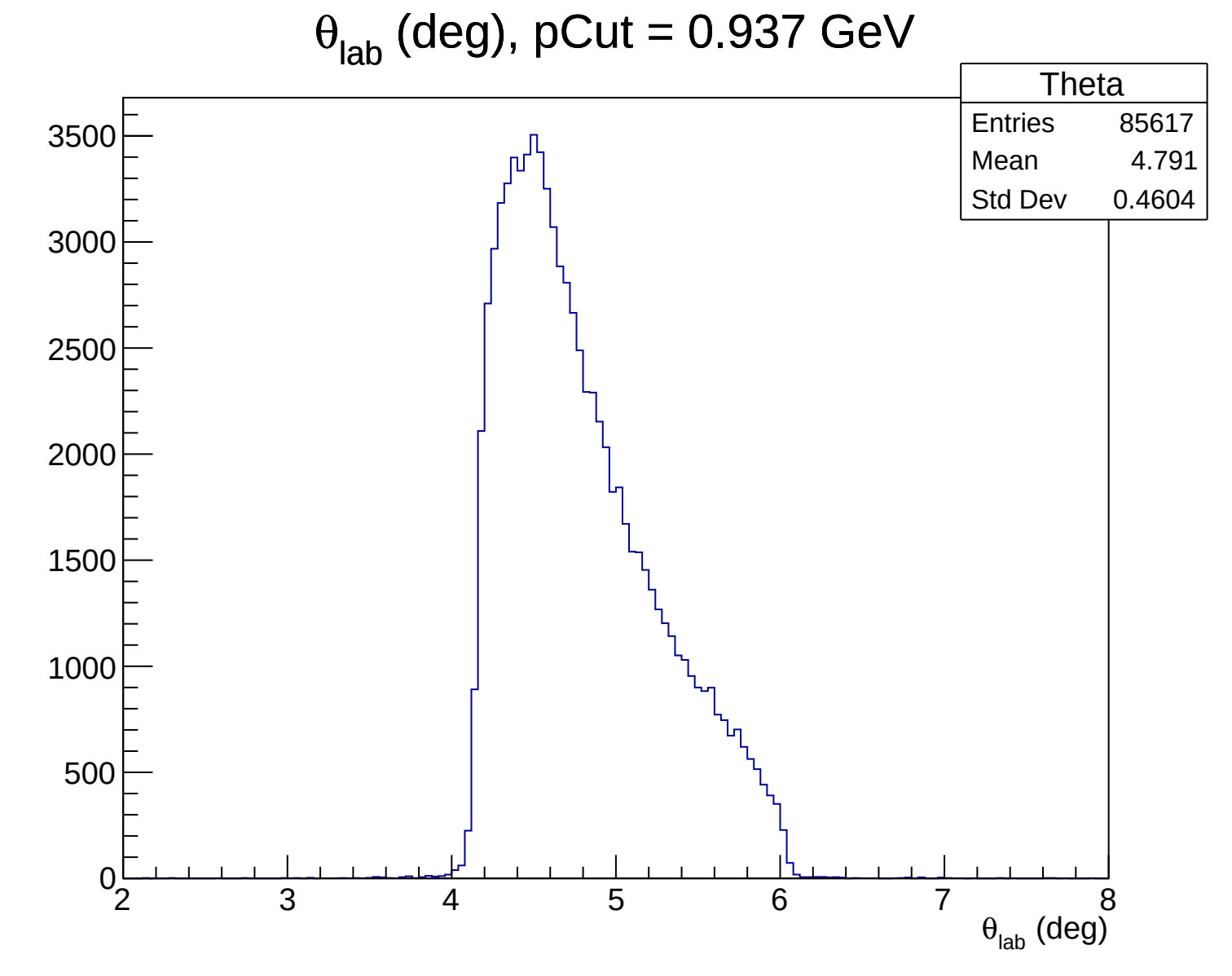

Sensitivity, pCut = 0.936 GeV
sens
Entries 87599
Mean 0.02224
Std Dev 0.003943
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

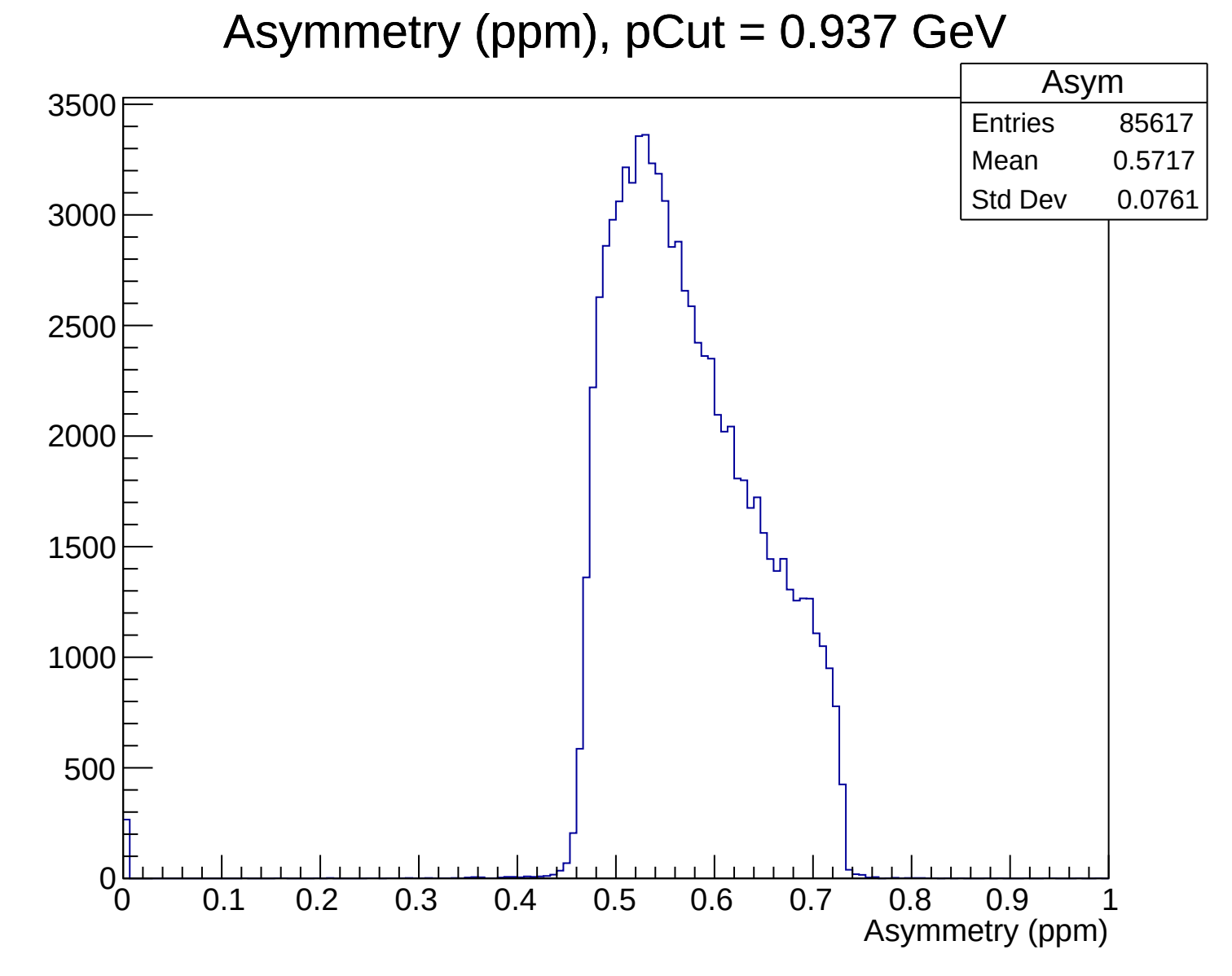
ADC raw (run21438, detZ = 1.3 m)

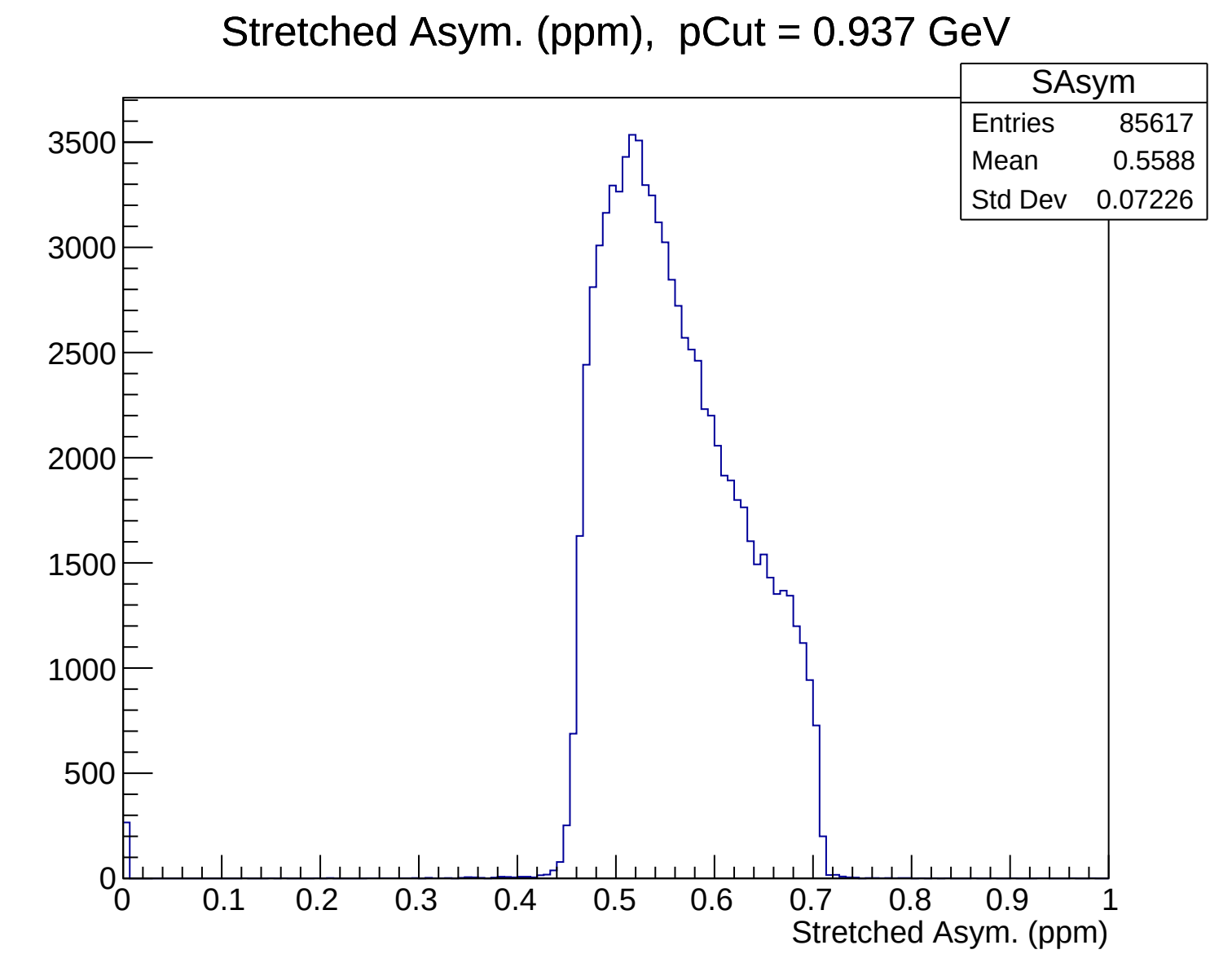


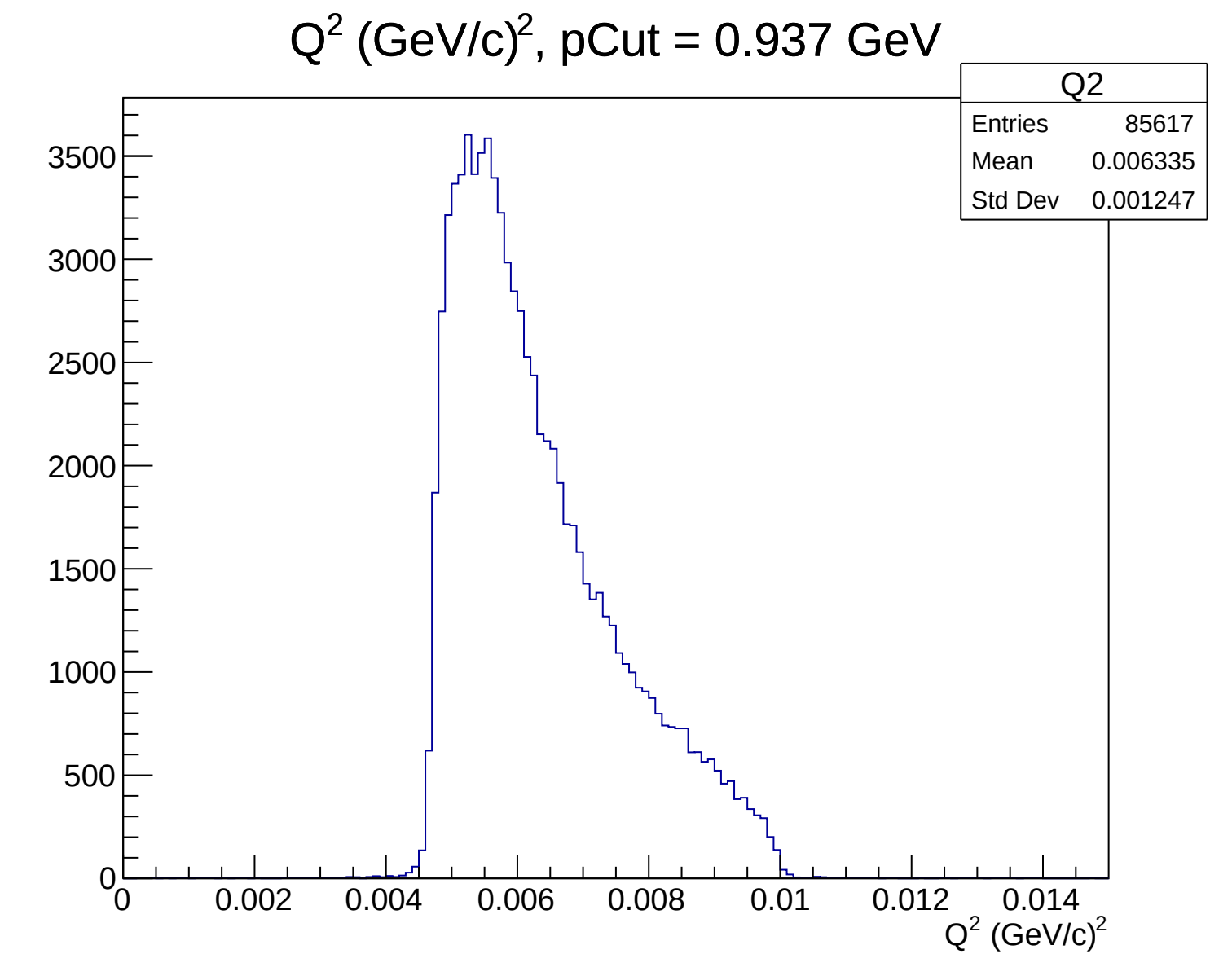
RHRS momentum (run21438)

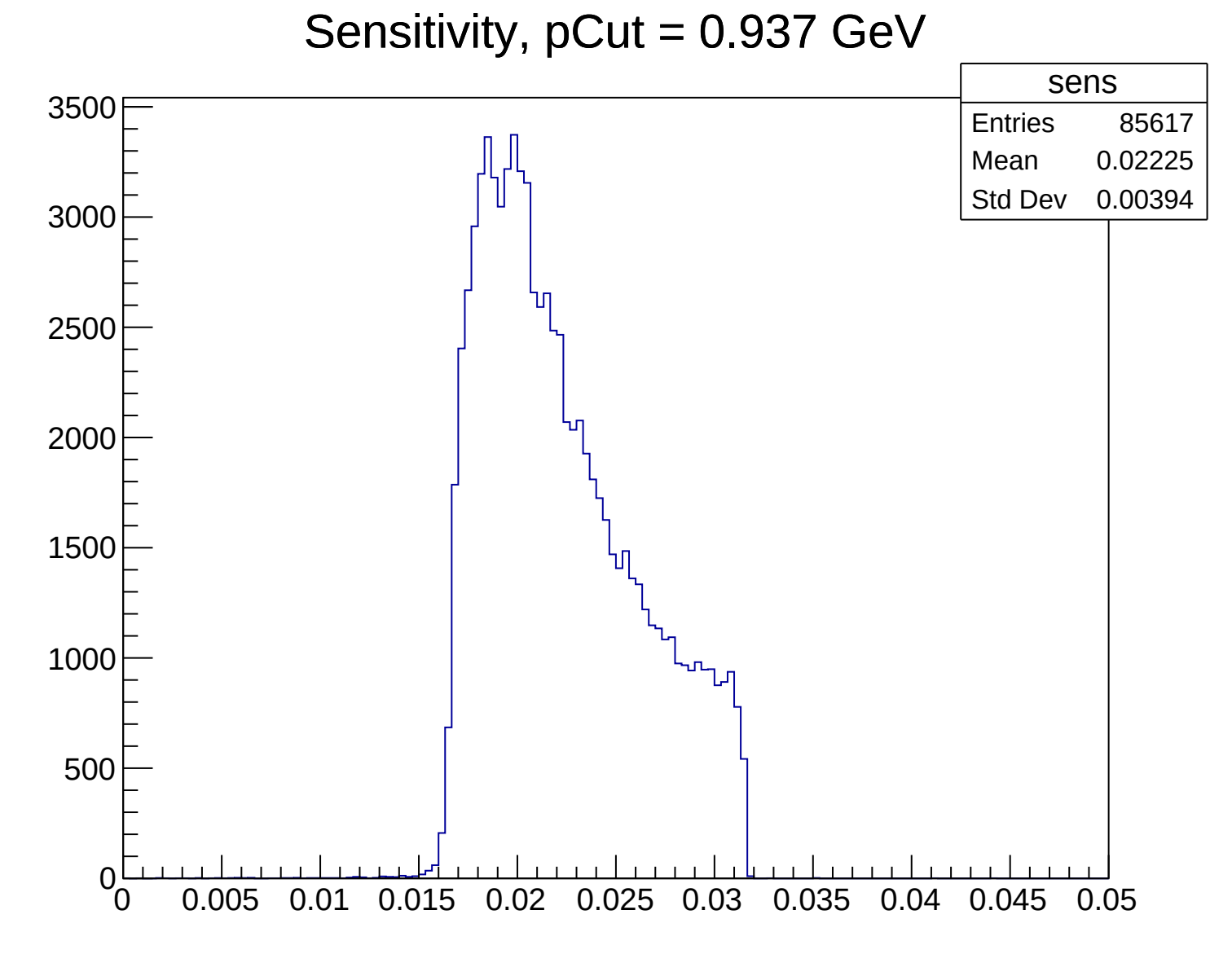



θlab (deg), pCut = 0.937 GeV
Theta
Entries 85617
Mean 4.791
Std Dev 0.4604
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

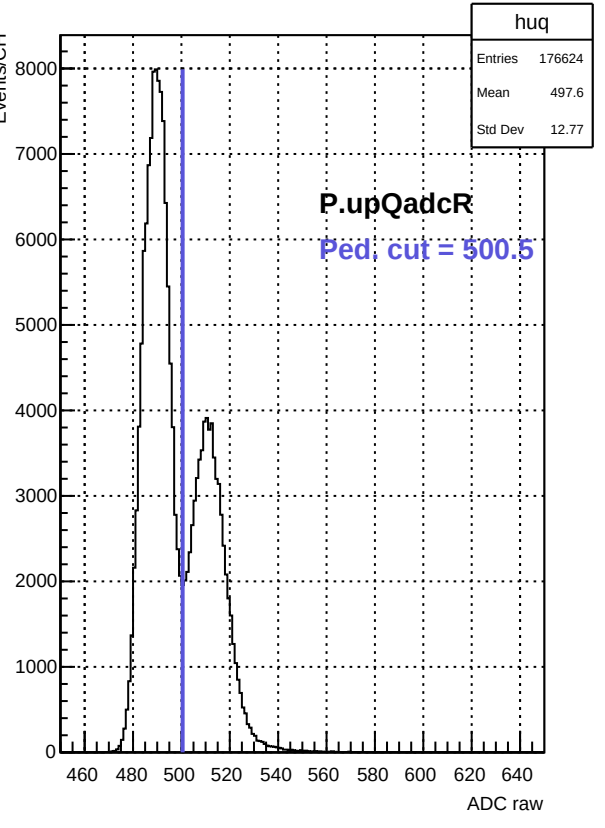

Asymmetry (ppm), pCut = 0.937 GeV
Asym
Entries 85617
Mean 0.5717
Std Dev 0.0761
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.937 GeV
SAsym
Entries 85617
Mean 0.5588
Std Dev 0.07226
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)

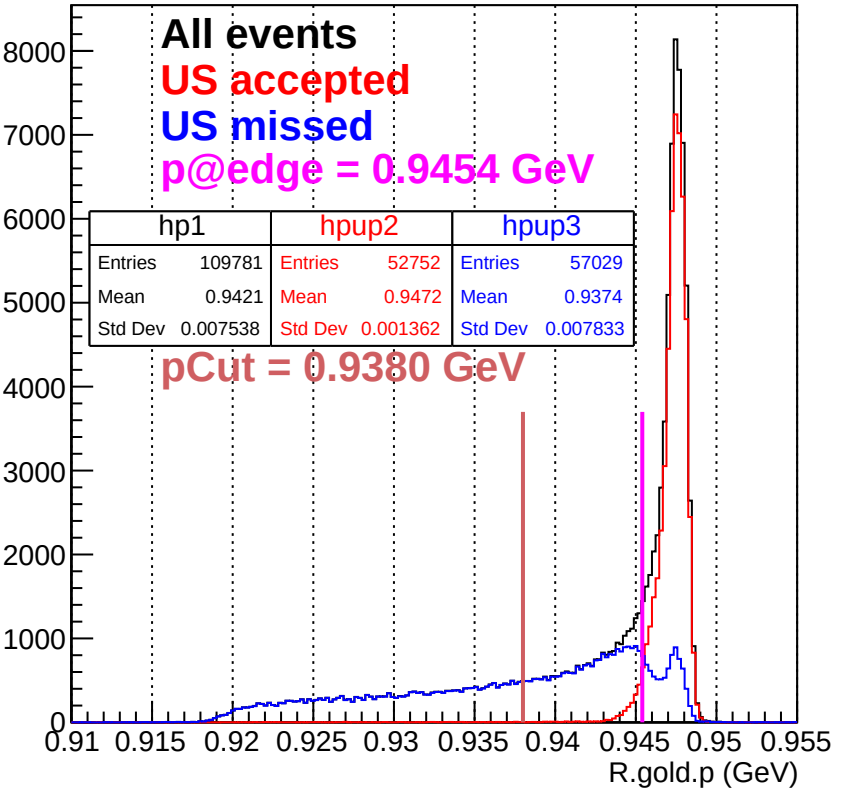

Q^2 (GeV/c)^2, pCut = 0.937 GeV
Q2
Entries 85617
Mean 0.006335
Std Dev 0.001247
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

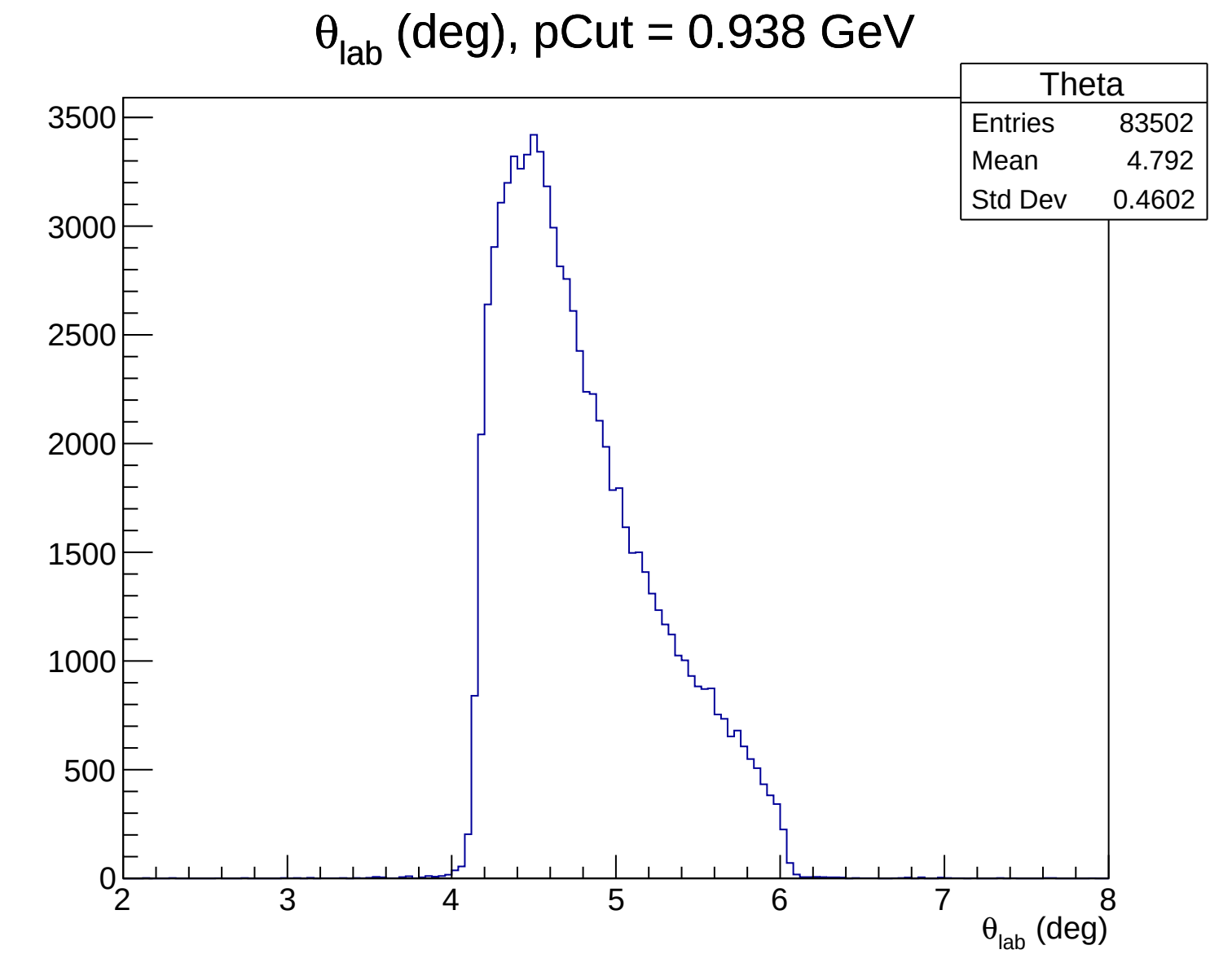

Sensitivity, pCut = 0.937 GeV
sens
Entries 85617
Mean 0.02225
Std Dev 0.00394
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

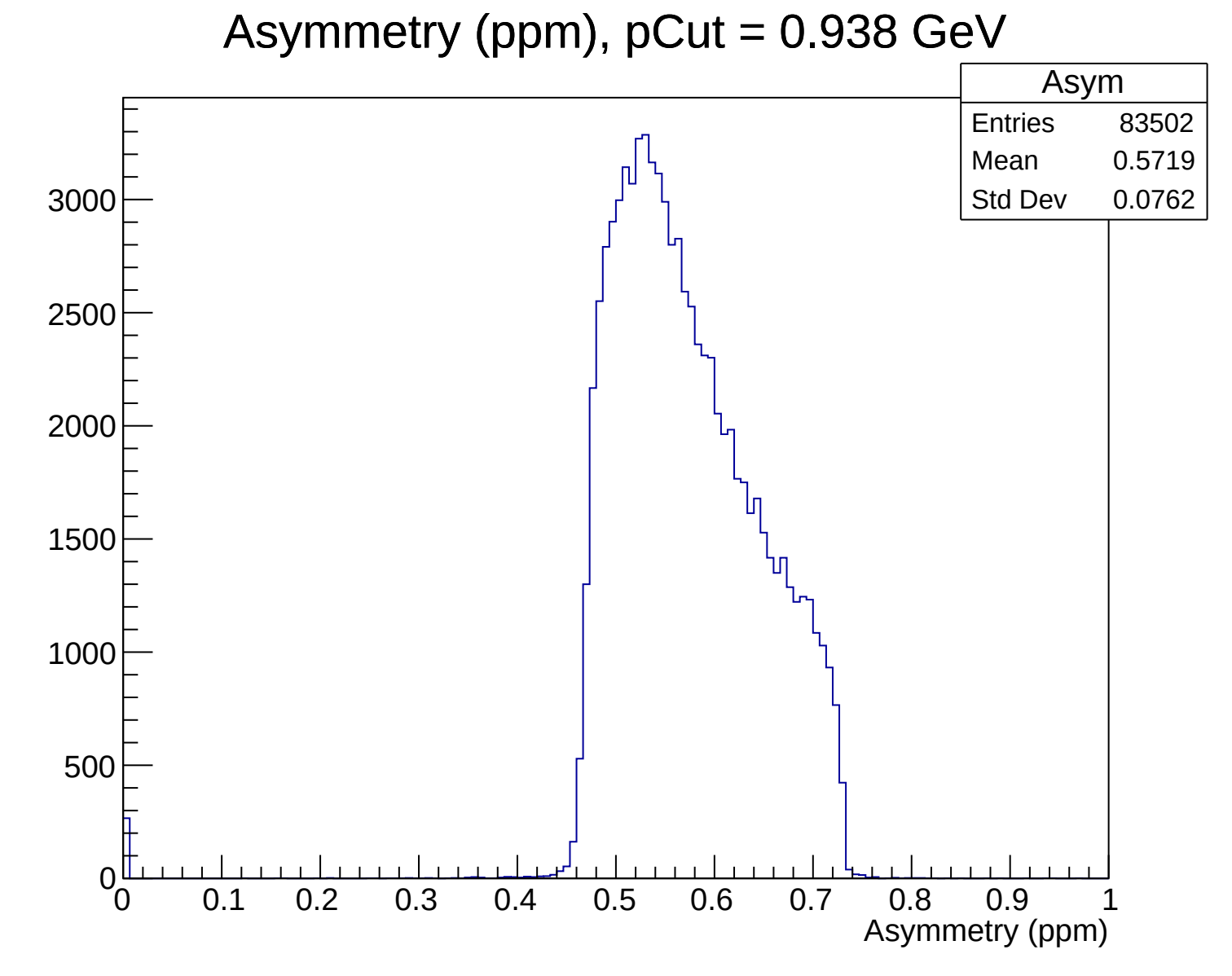
ADC raw (run21438, detZ = 1.3 m)

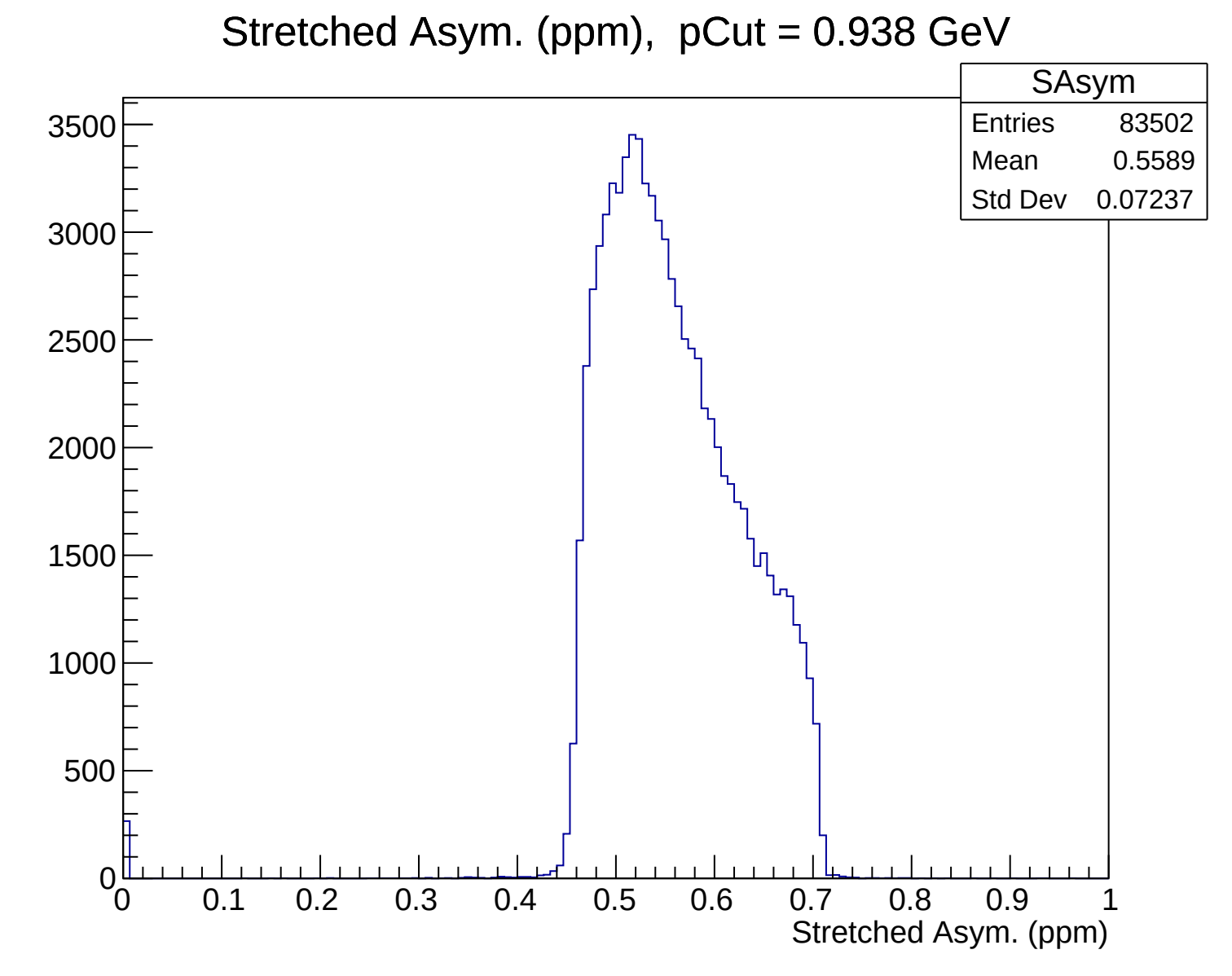


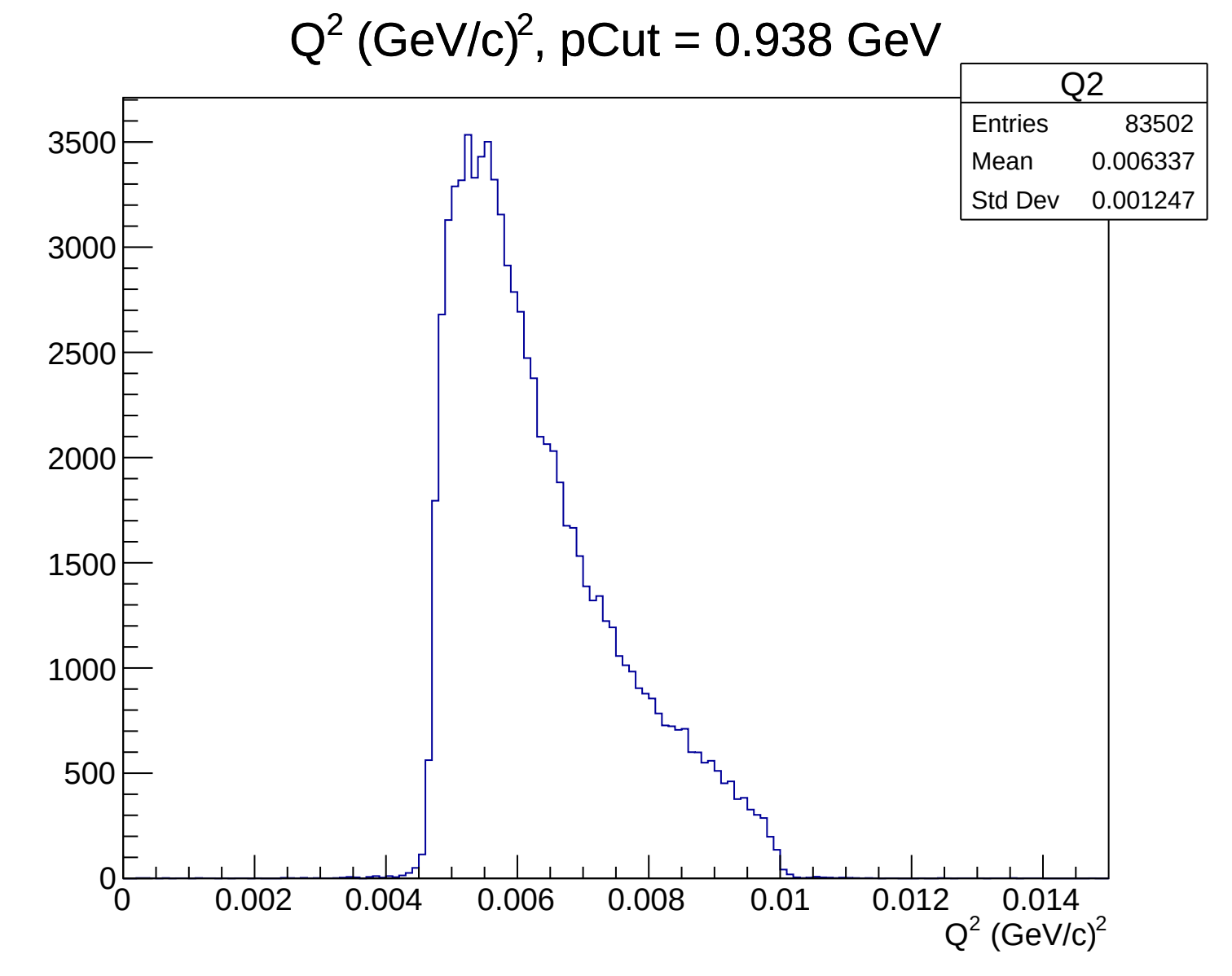
RHRS momentum (run21438)

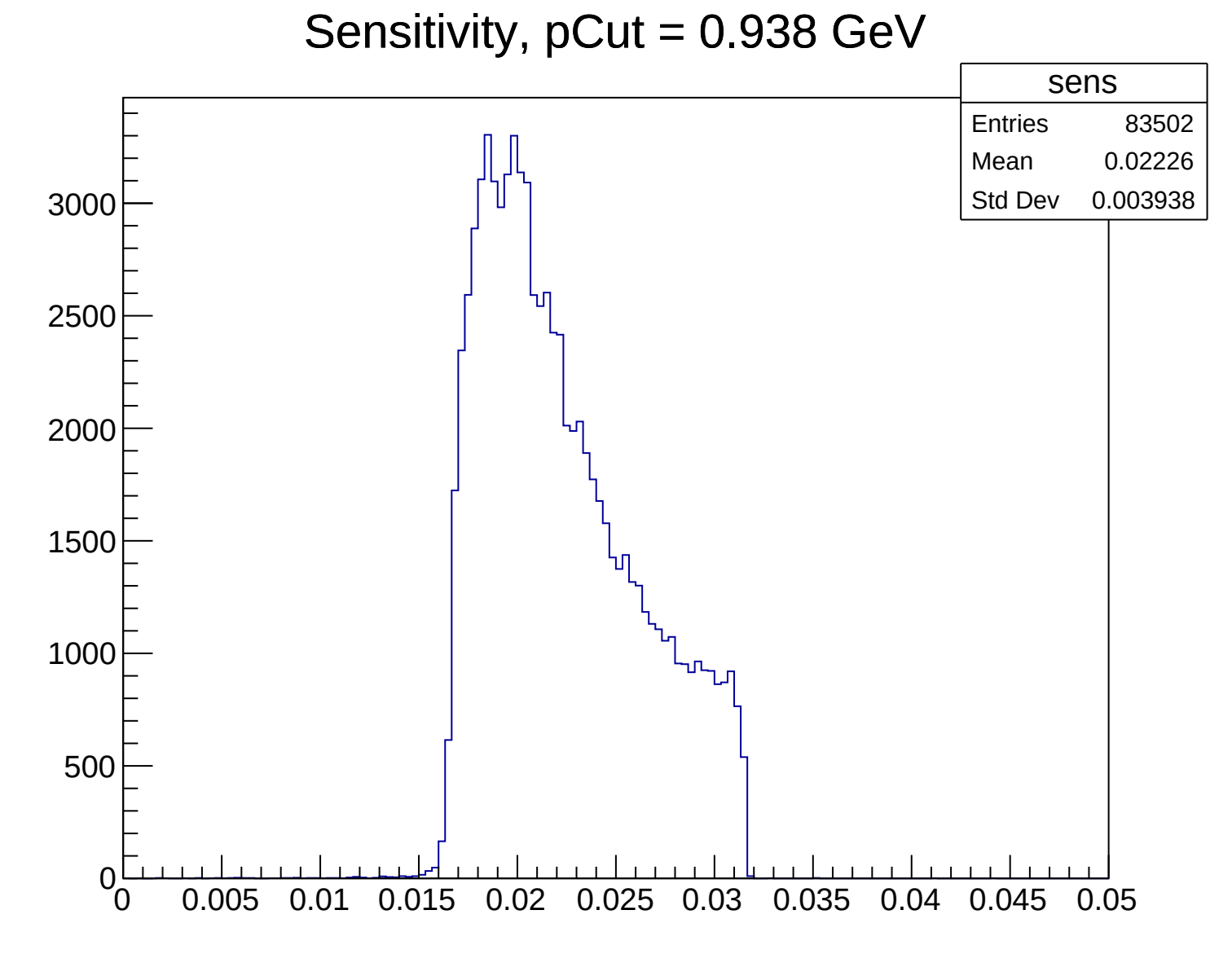


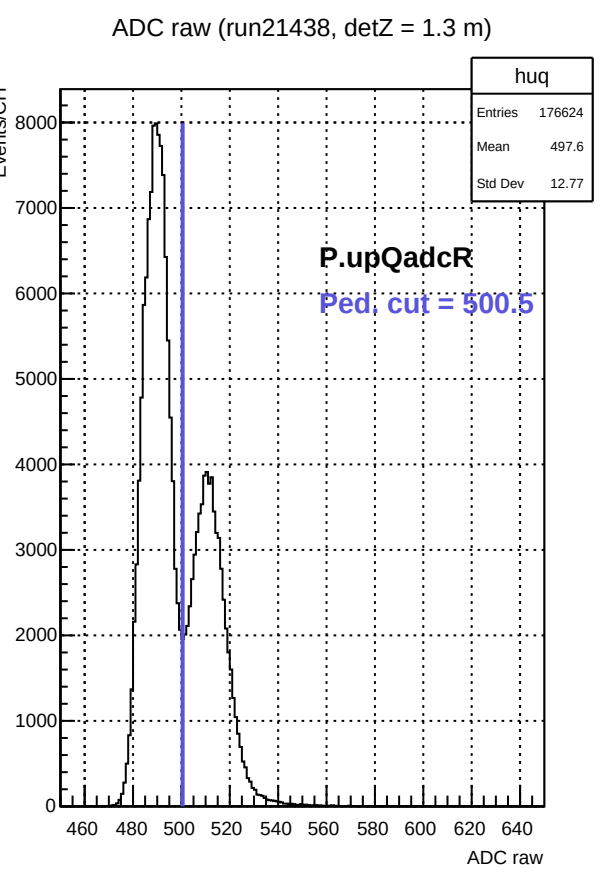

θlab (deg), pCut = 0.938 GeV
Theta
Entries 83502
Mean 4.792
Std Dev 0.4602
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

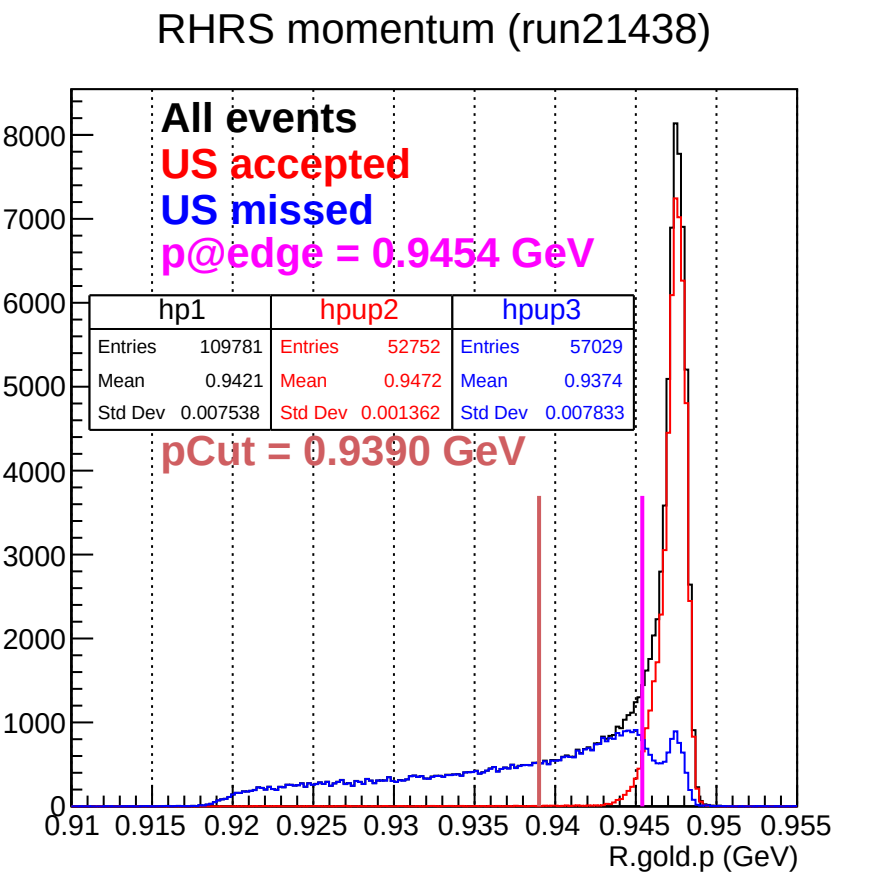

Asymmetry (ppm), pCut = 0.938 GeV
Asym
Entries 83502
Mean 0.5719
Std Dev 0.0762
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

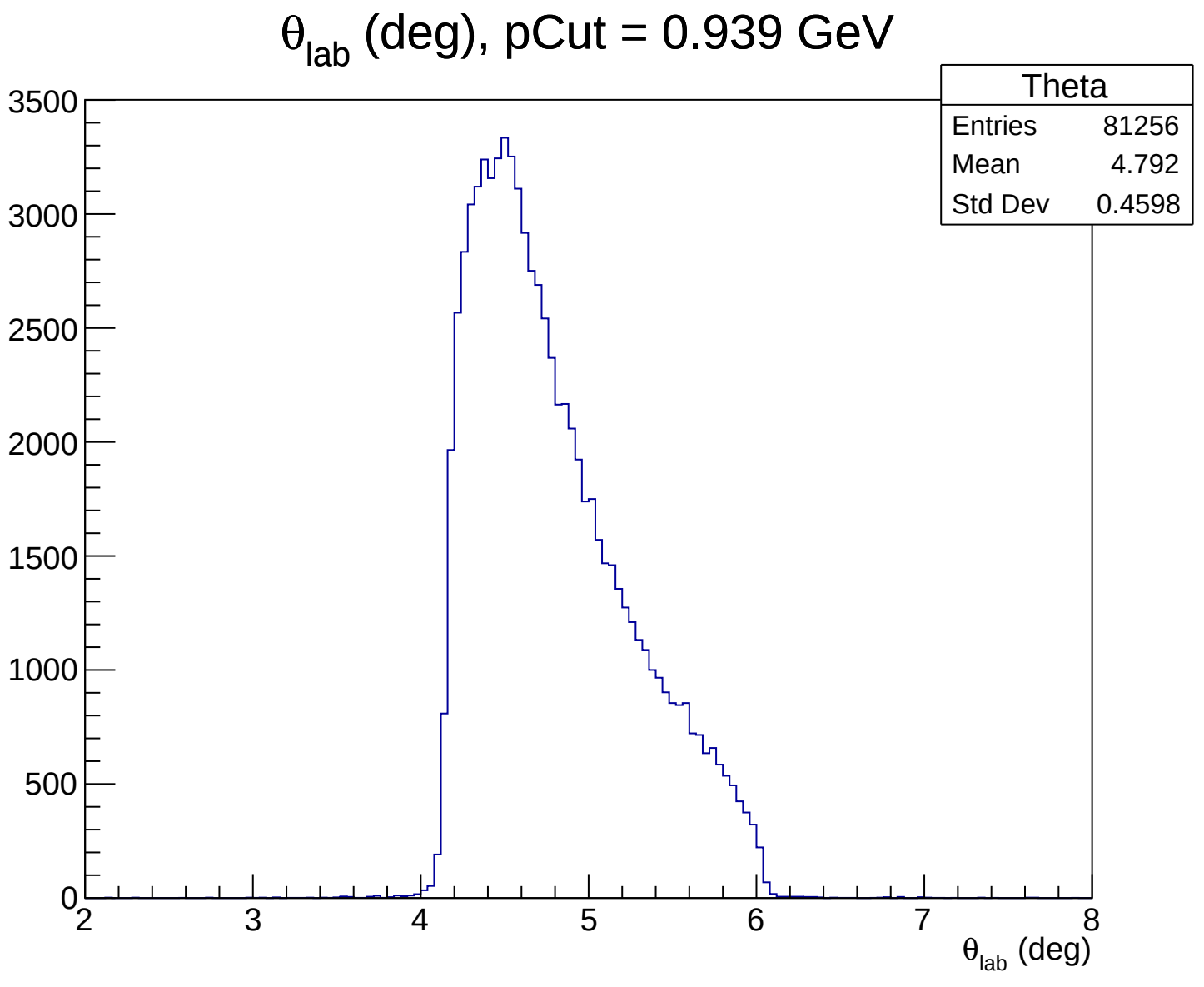

Stretched Asym. (ppm), pCut = 0.938 GeV
SAsym
Entries 83502
Mean 0.5589
Std Dev 0.07237
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

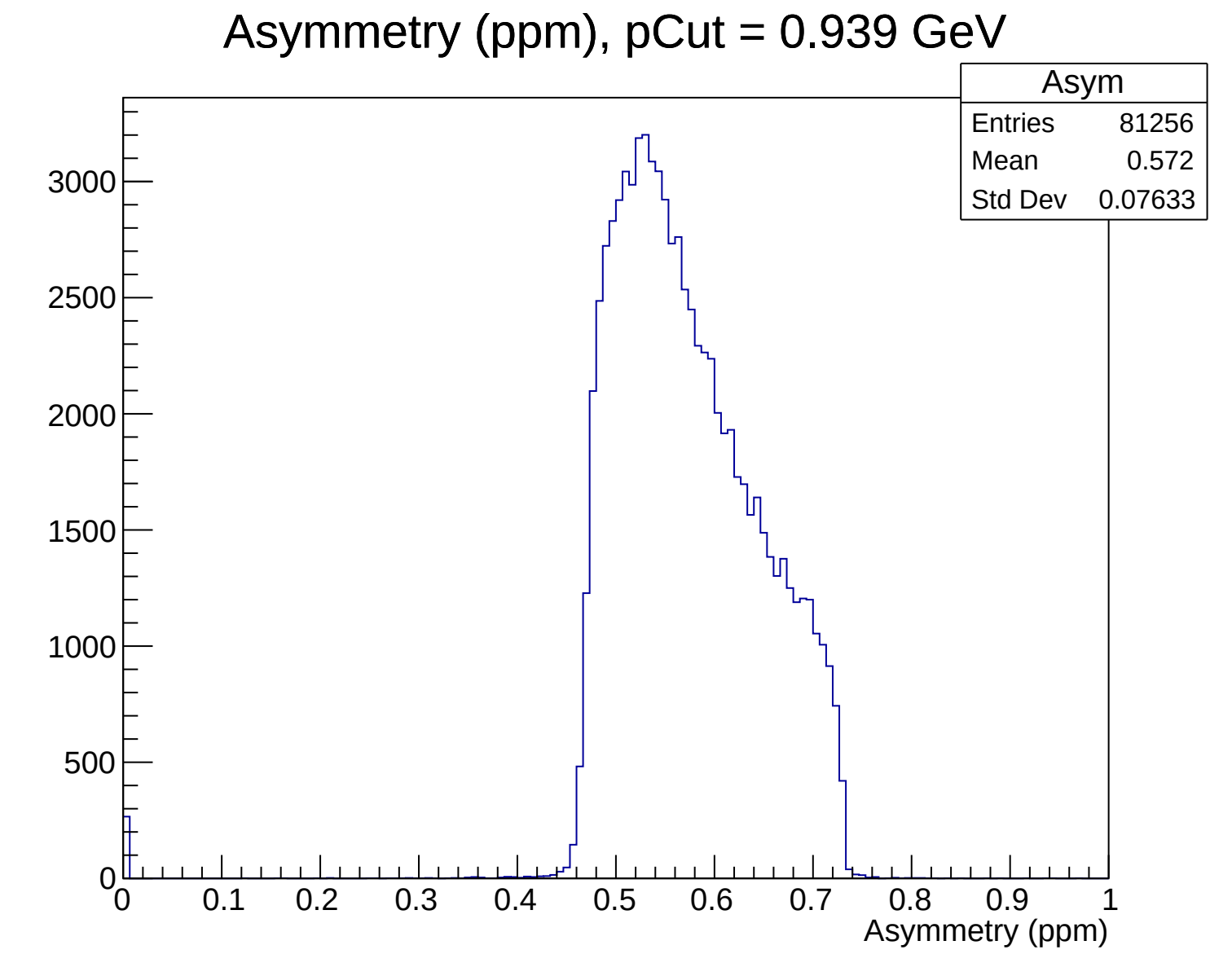

Q^2 (GeV/c)^2, pCut = 0.938 GeV
Q2
Entries 83502
Mean 0.006337
Std Dev 0.001247
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

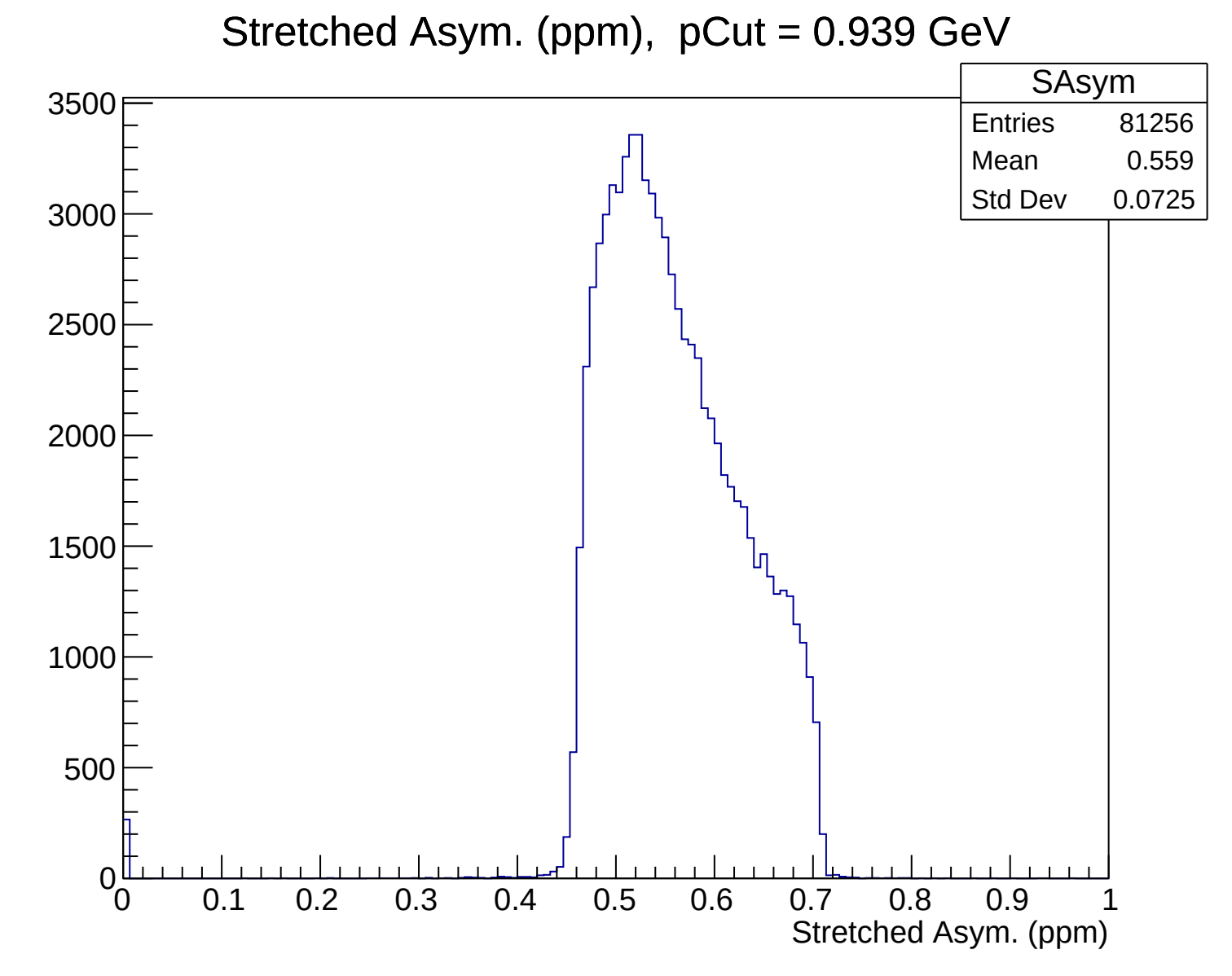

Sensitivity, pCut = 0.938 GeV
sens
Entries 83502
Mean 0.02226
Std Dev 0.003938
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

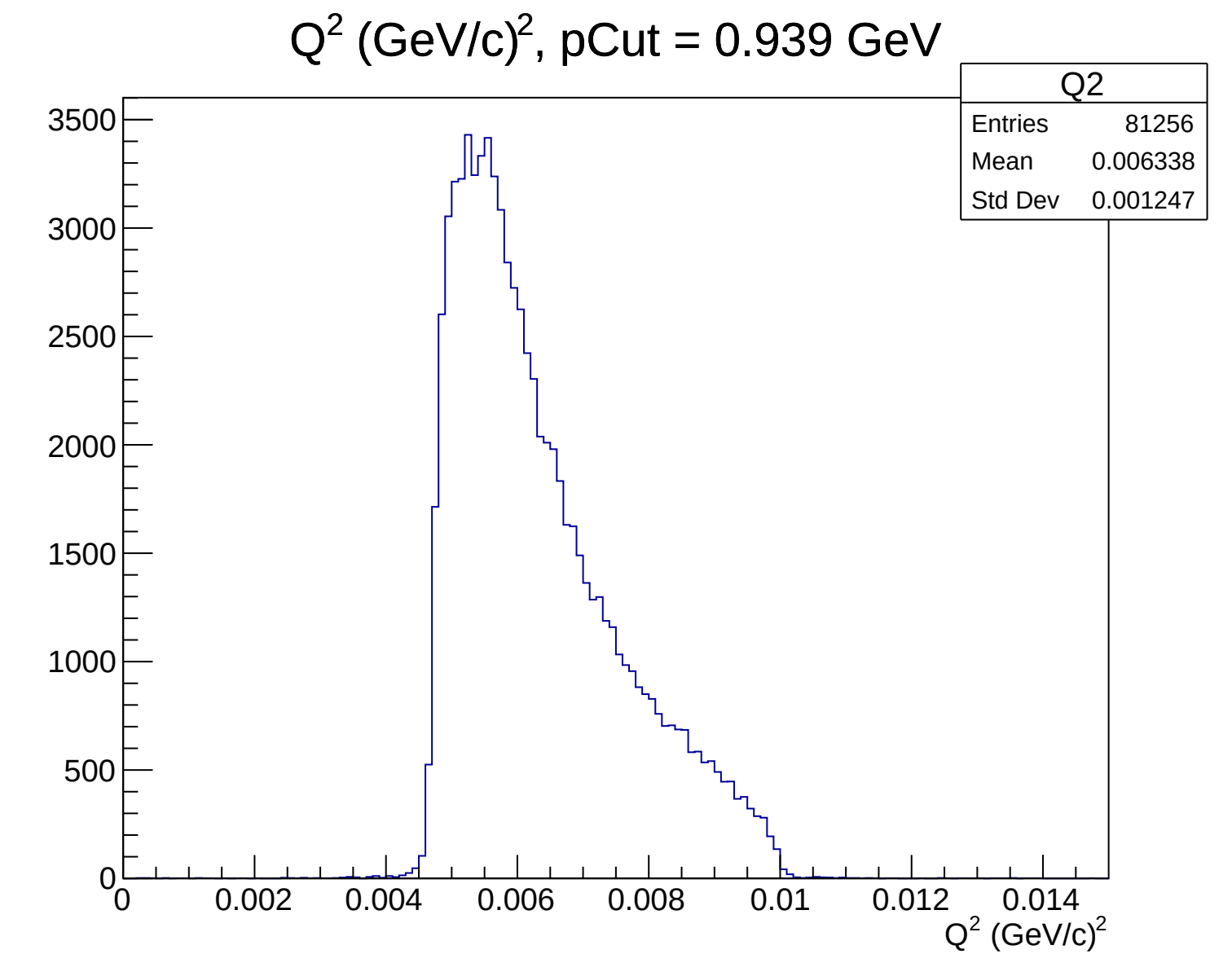

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

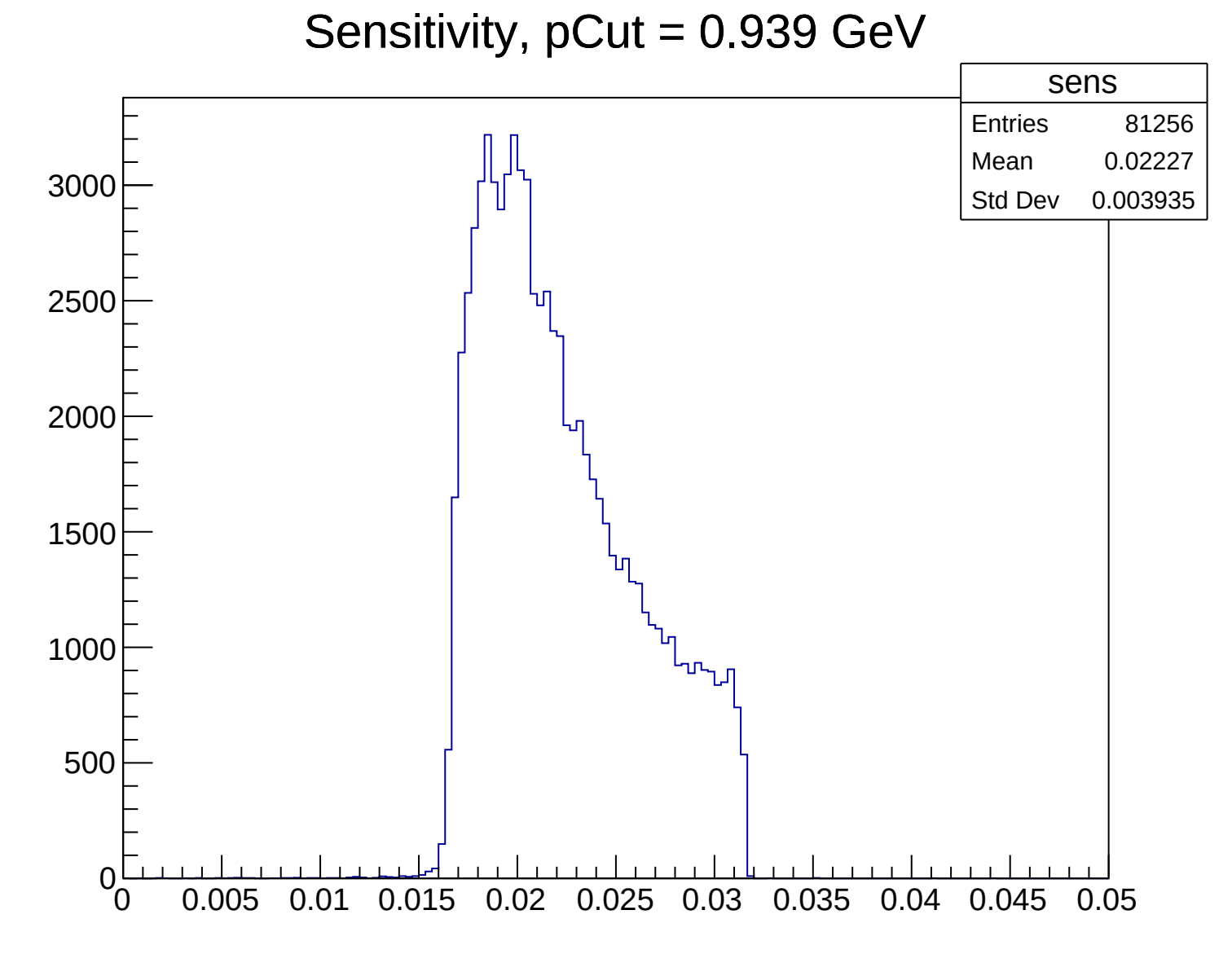

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9390 GeV
R.gold.p (GeV)

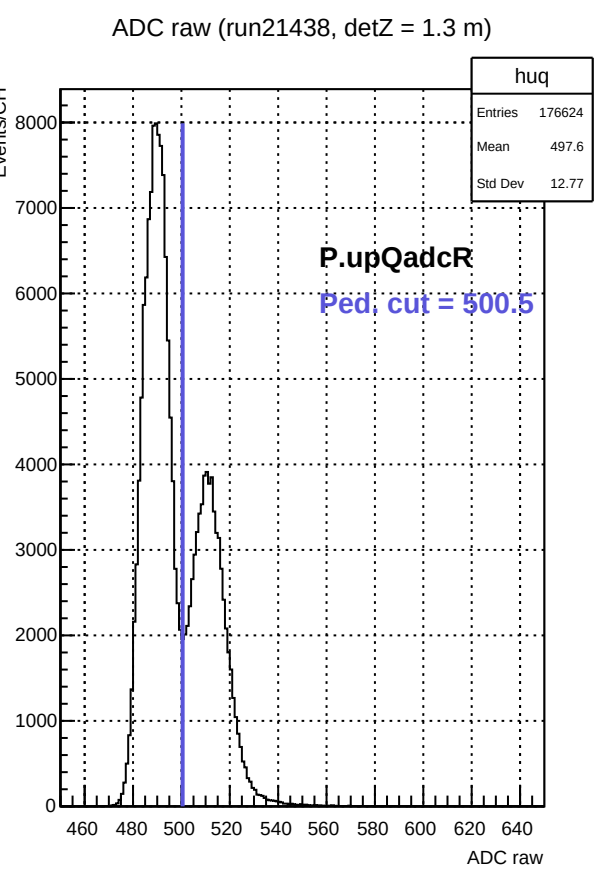

θlab (deg), pCut = 0.939 GeV
Theta
Entries 81256
Mean 4.792
Std Dev 0.4598
3500
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

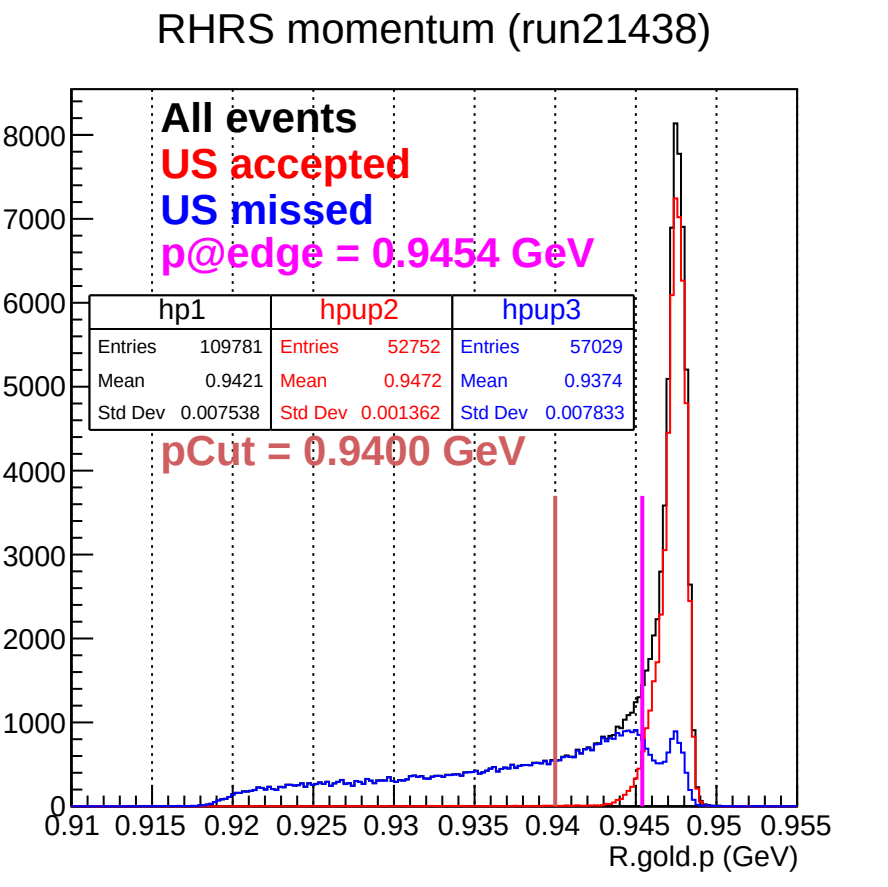

Asymmetry (ppm), pCut = 0.939 GeV
Asym
Entries 81256
Mean 0.572
Std Dev 0.07633
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

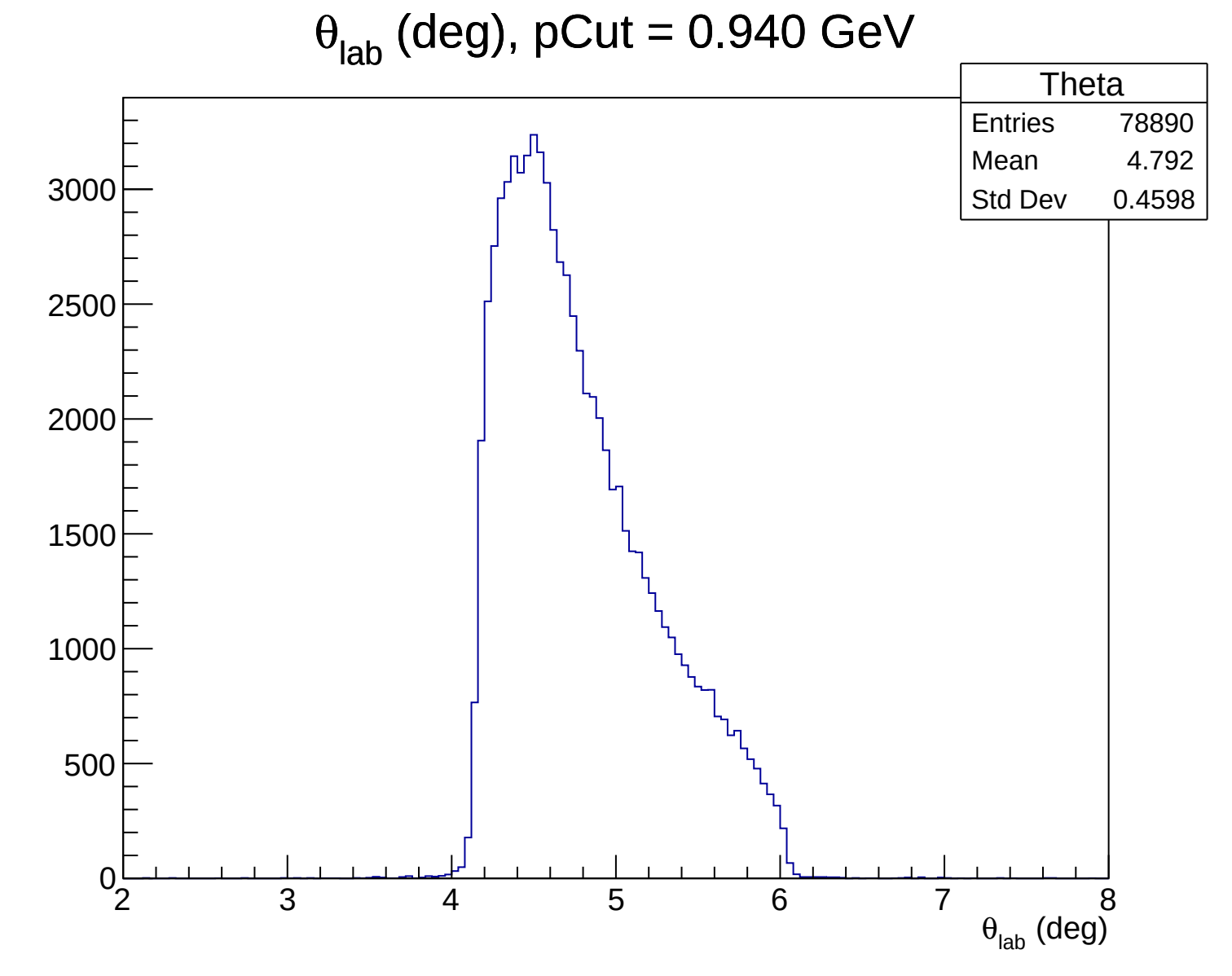

Stretched Asym. (ppm), pCut = 0.939 GeV
SAsym
Entries 81256
Mean 0.559
Std Dev 0.0725
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

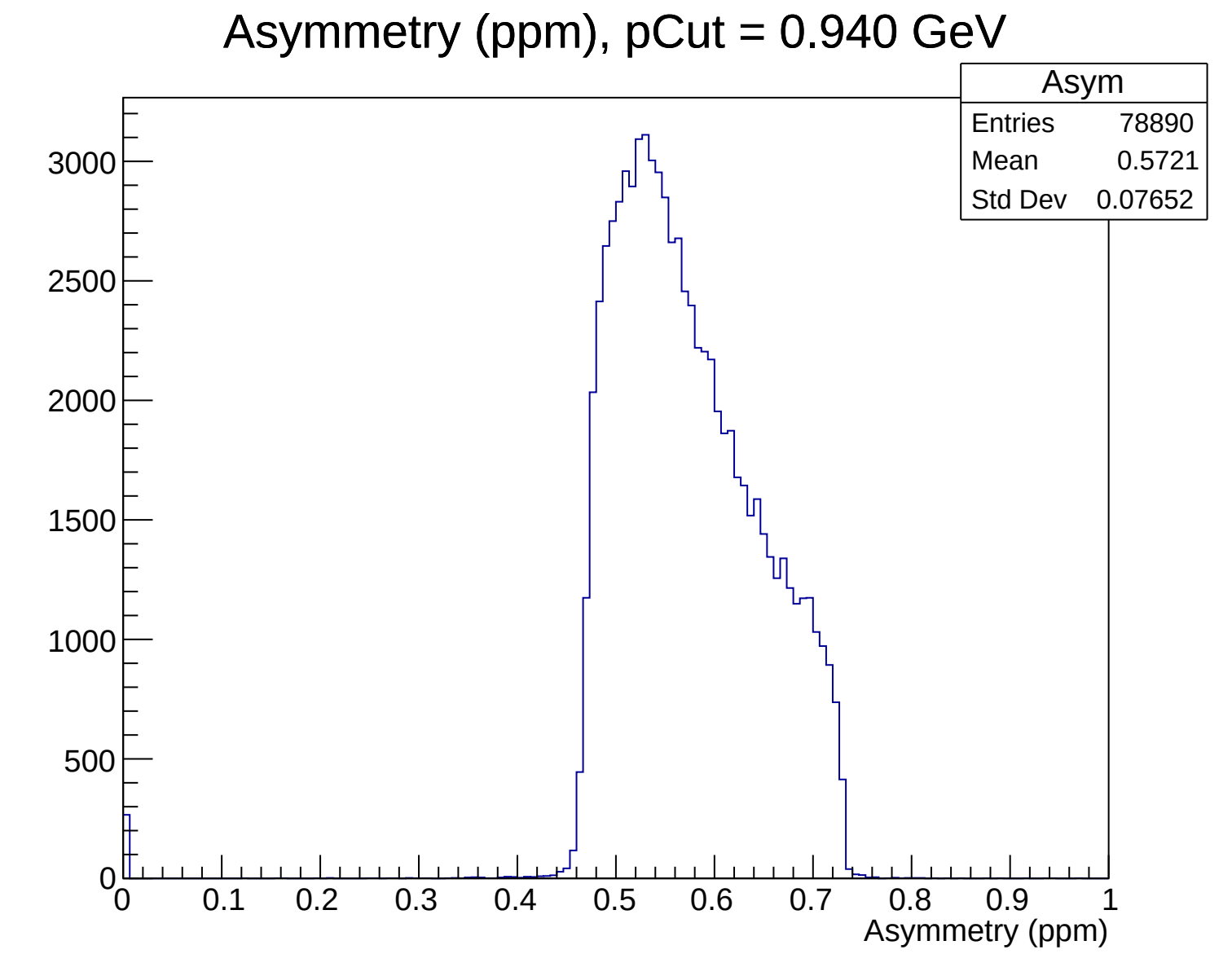

Q^2 (GeV/c)^2, pCut = 0.939 GeV
Q2
Entries 81256
Mean 0.006338
Std Dev 0.001247
3500
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

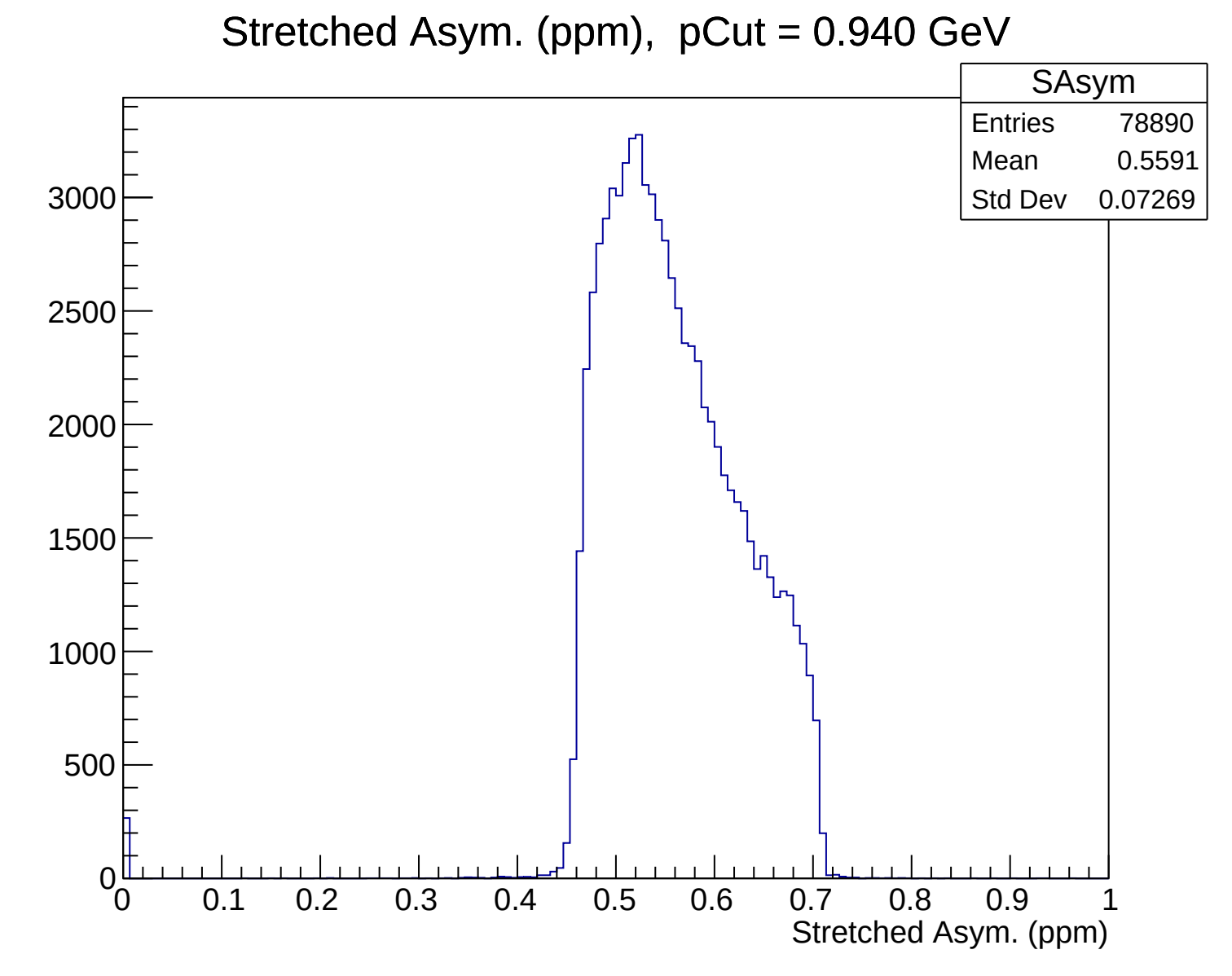

Sensitivity, pCut = 0.939 GeV
sens
Entries 81256
Mean 0.02227
Std Dev 0.003935
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

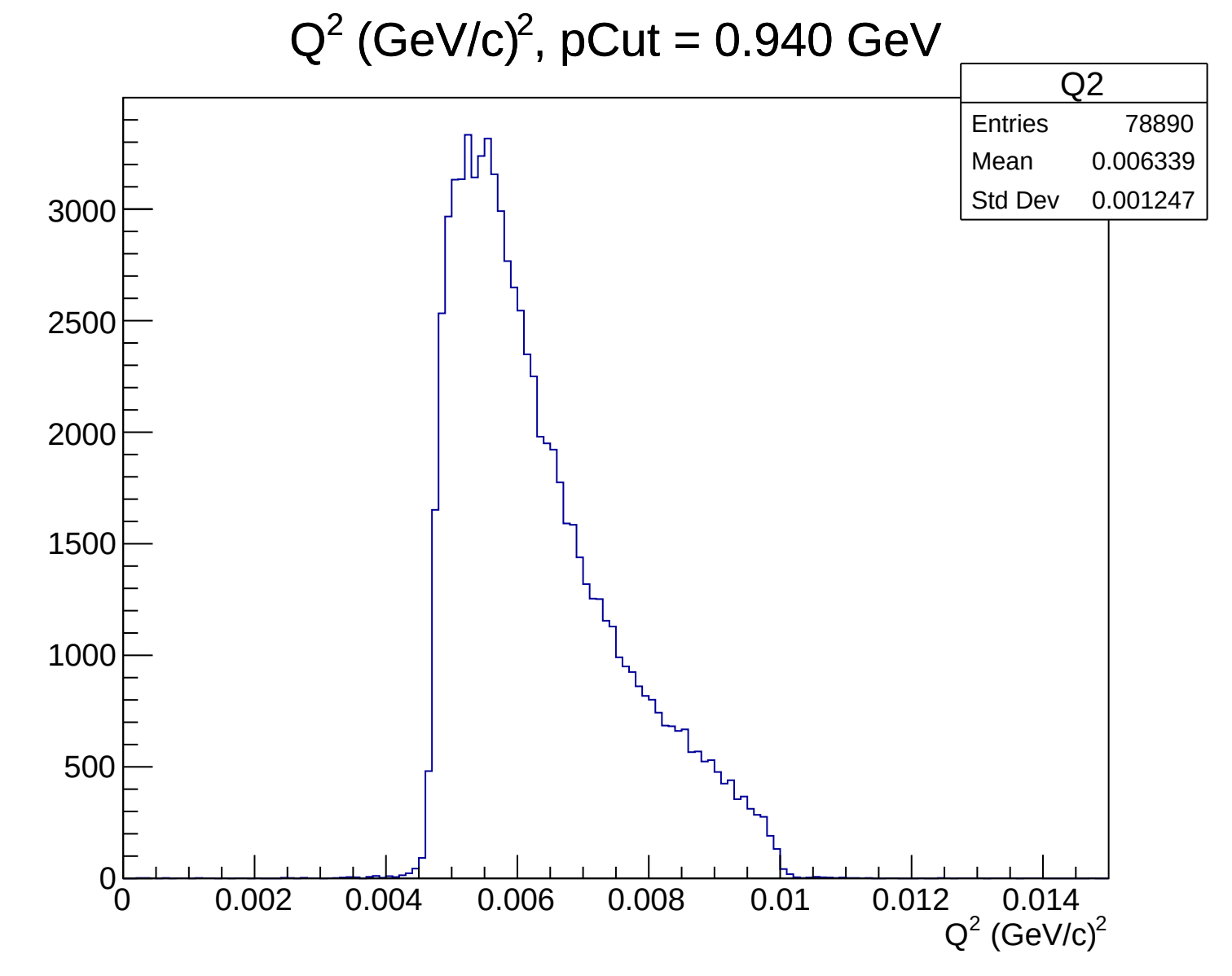

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
8000
7000
6000
5000
4000
3000
2000
1000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

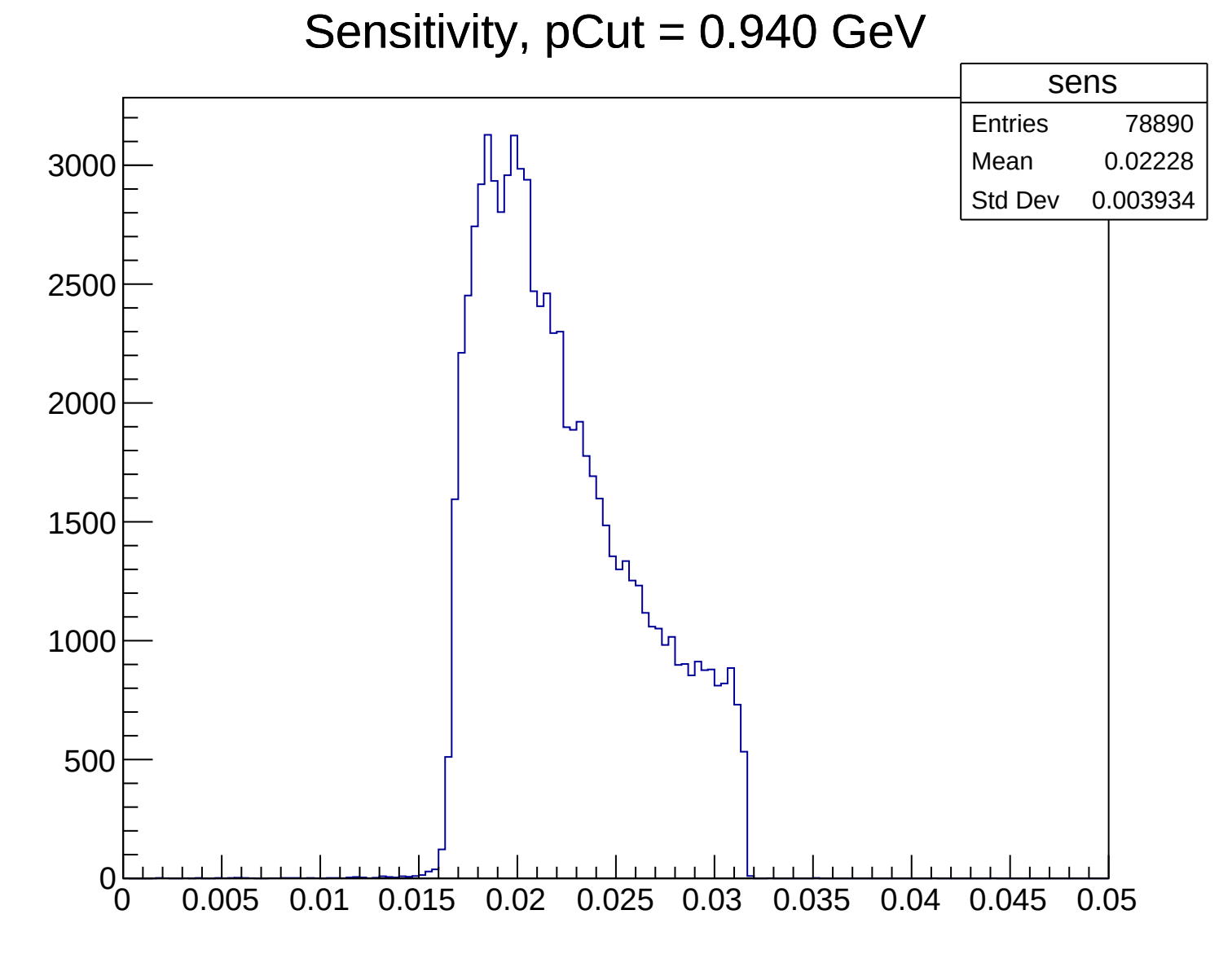

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9400 GeV
8000
7000
6000
5000
4000
3000
2000
1000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)


θlab (deg), pCut = 0.940 GeV
Theta
Entries 78890
Mean 4.792
Std Dev 0.4598
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

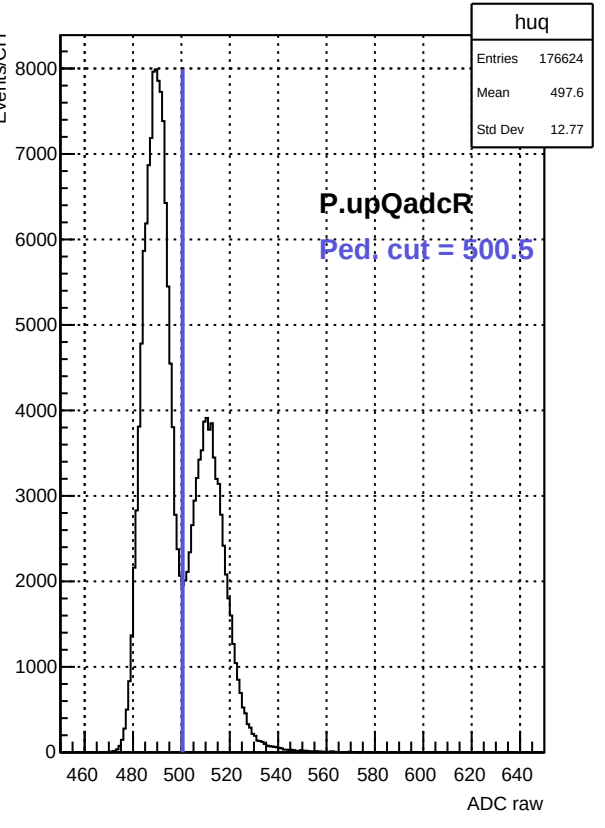

Asymmetry (ppm), pCut = 0.940 GeV
Asym
Entries 78890
Mean 0.5721
Std Dev 0.07652
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.940 GeV
SAsym
Entries 78890
Mean 0.5591
Std Dev 0.07269
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)

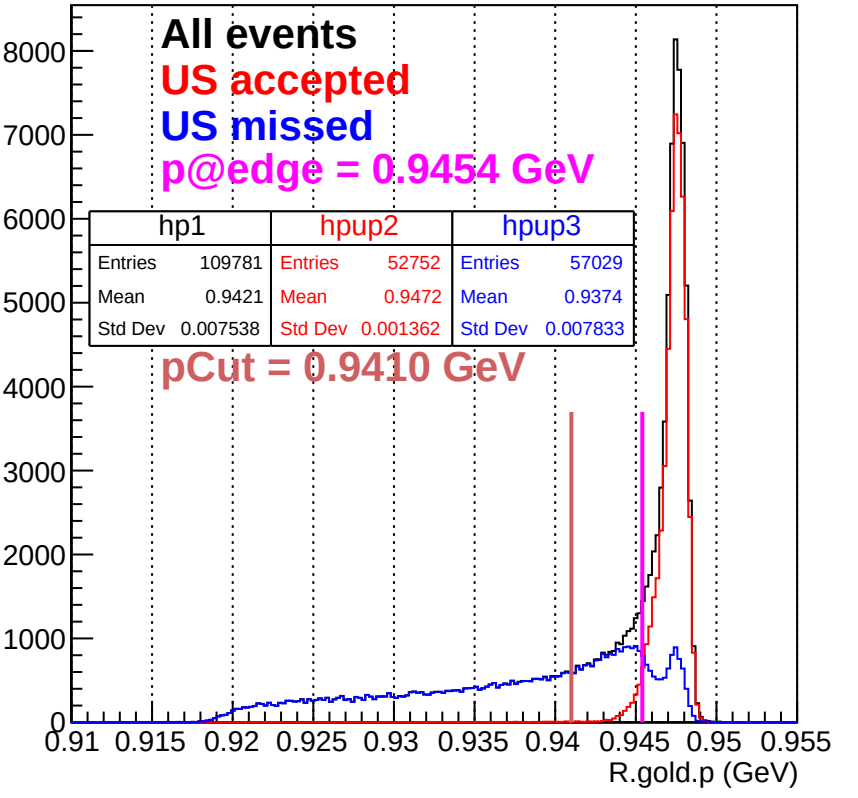

Q^2 (GeV/c)^2, pCut = 0.940 GeV
Q2
Entries 78890
Mean 0.006339
Std Dev 0.001247
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

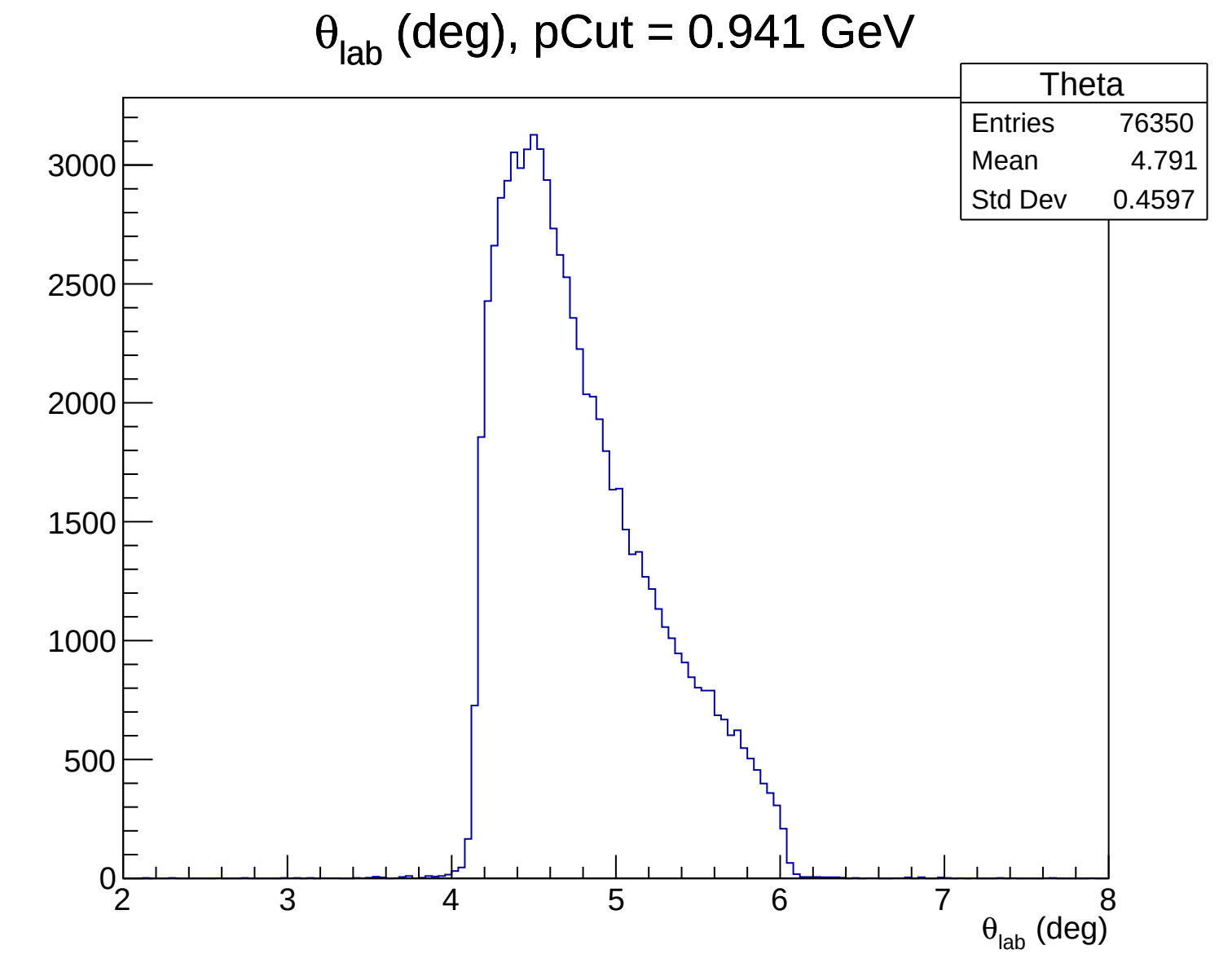

Sensitivity, pCut = 0.940 GeV
sens
Entries 78890
Mean 0.02228
Std Dev 0.003934
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

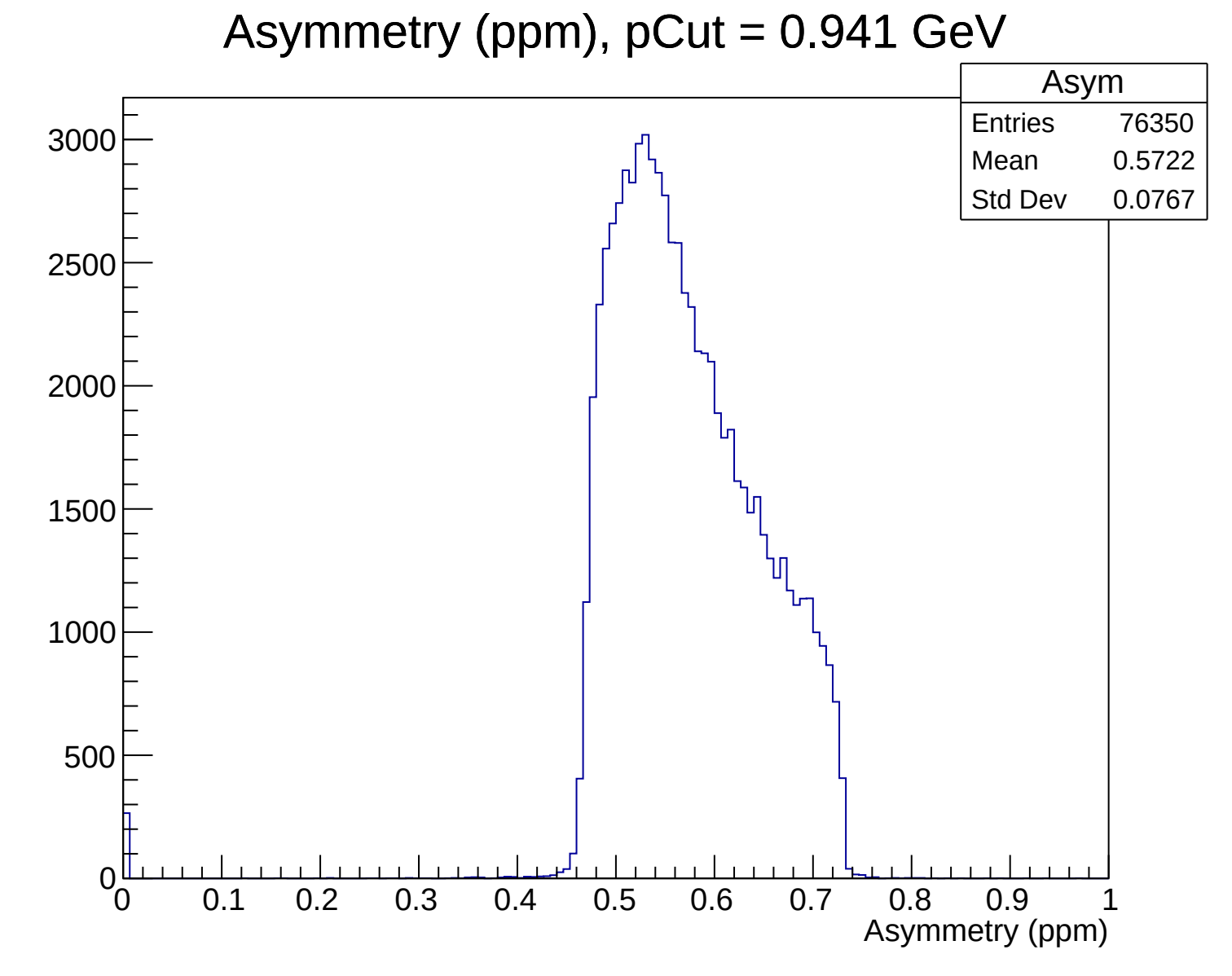
ADC raw (run21438, detZ = 1.3 m)

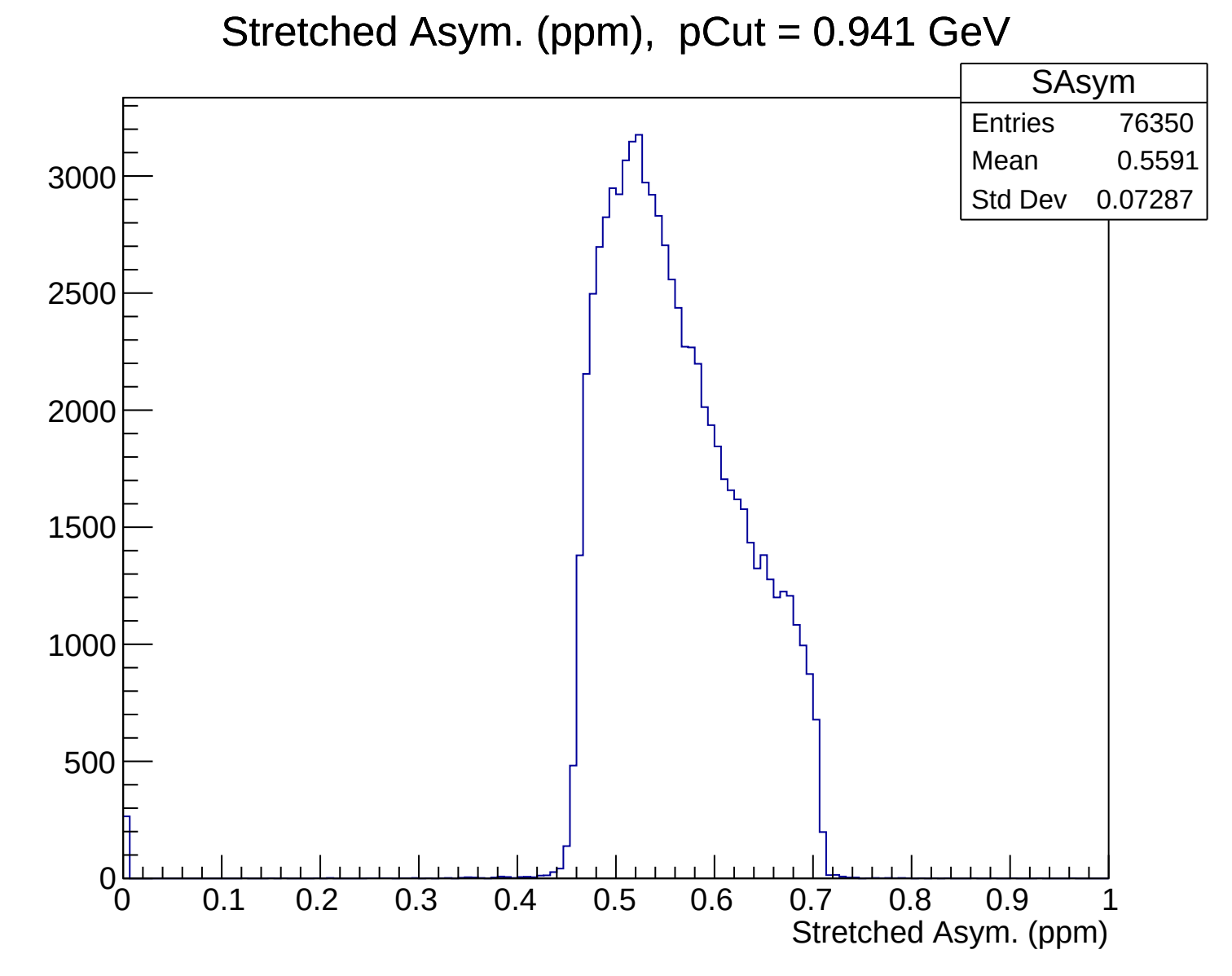


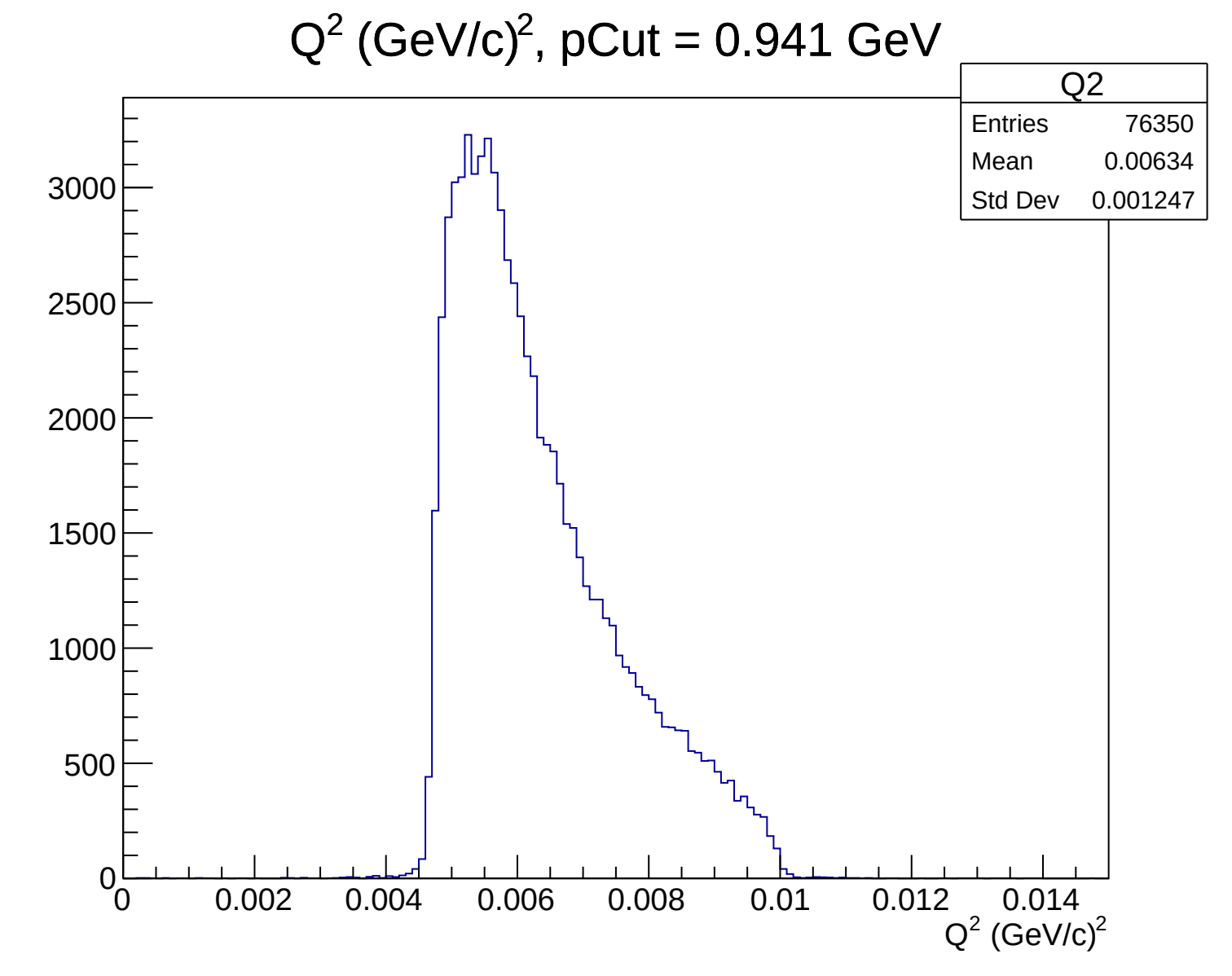
RHRS momentum (run21438)

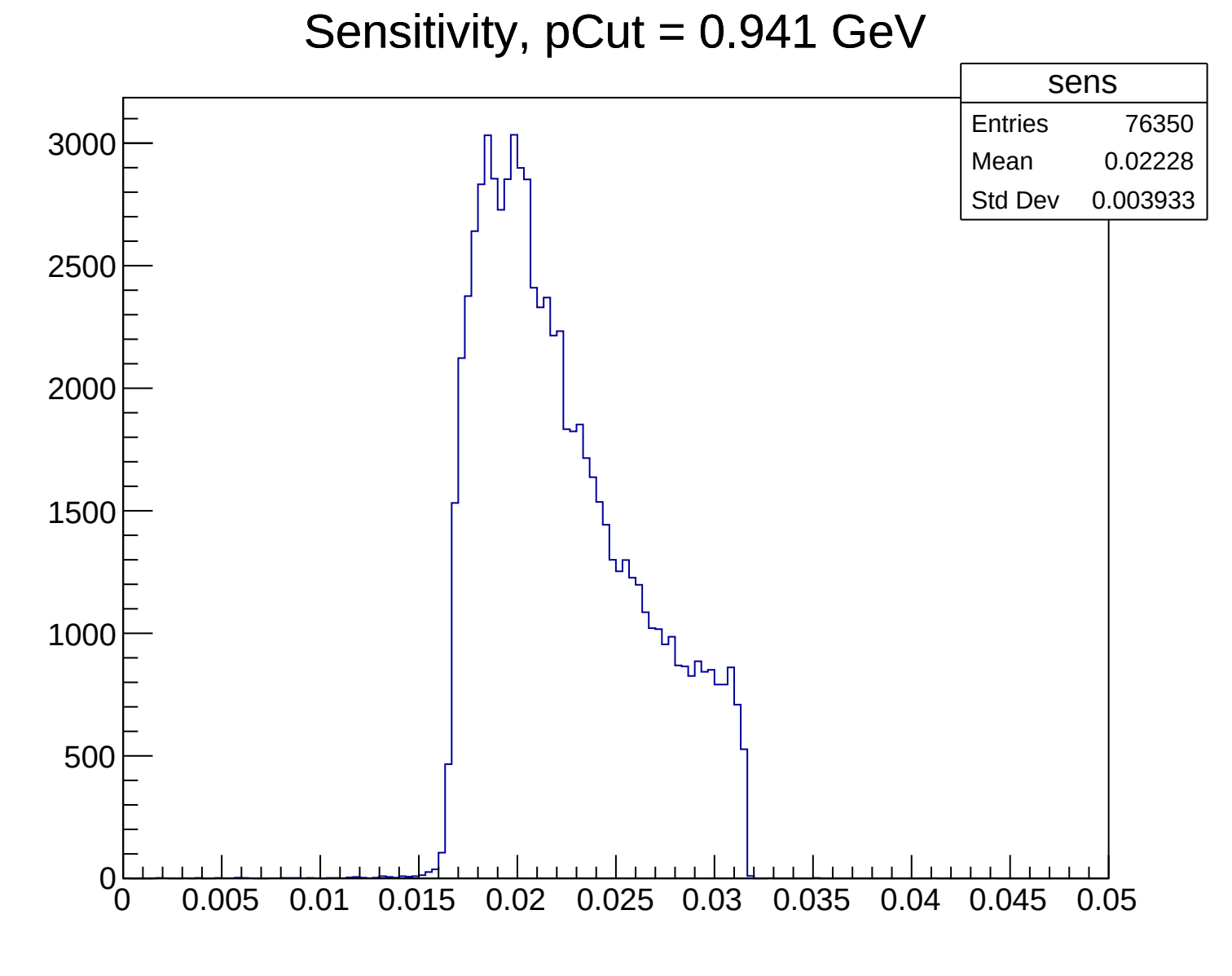



θlab (deg), pCut = 0.941 GeV
Theta
Entries 76350
Mean 4.791
Std Dev 0.4597
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

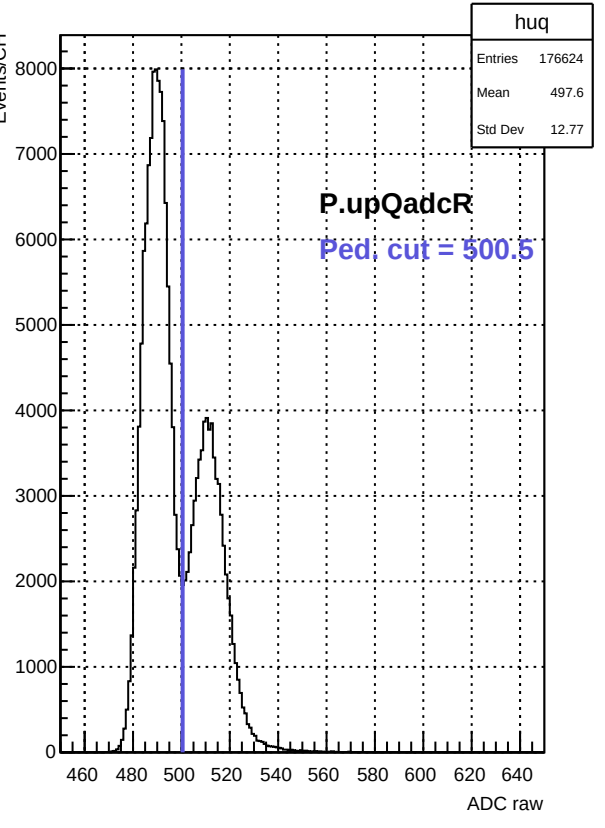

Asymmetry (ppm), pCut = 0.941 GeV
Asym
Entries 76350
Mean 0.5722
Std Dev 0.0767
3000
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.941 GeV
SAsym
Entries 76350
Mean 0.5591
Std Dev 0.07287
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)

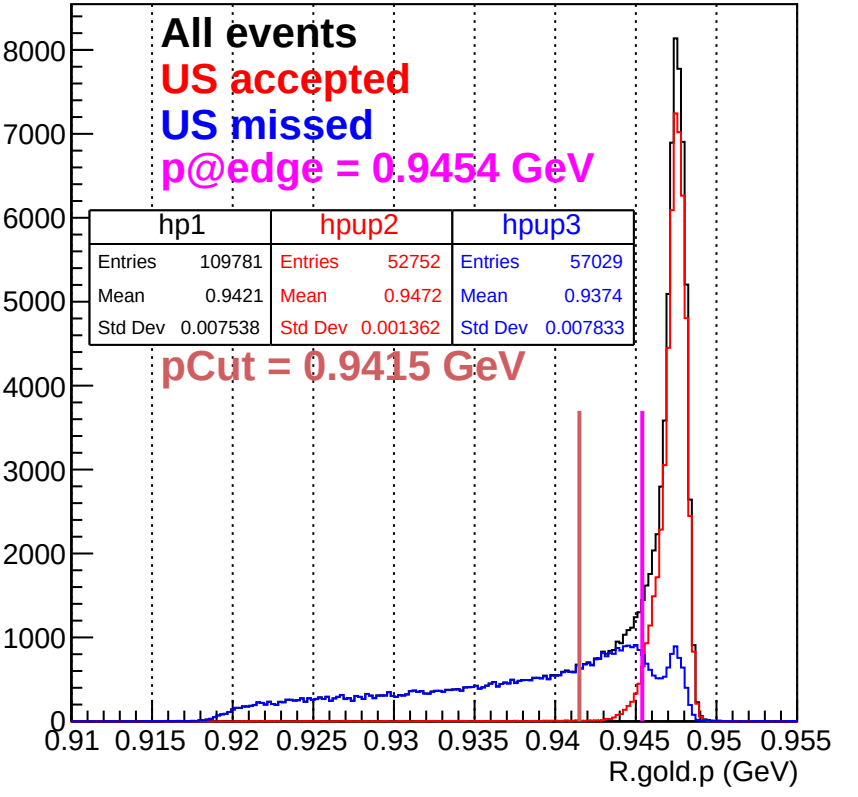

Q^2 (GeV/c)^2, pCut = 0.941 GeV
Q2
Entries 76350
Mean 0.00634
Std Dev 0.001247
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

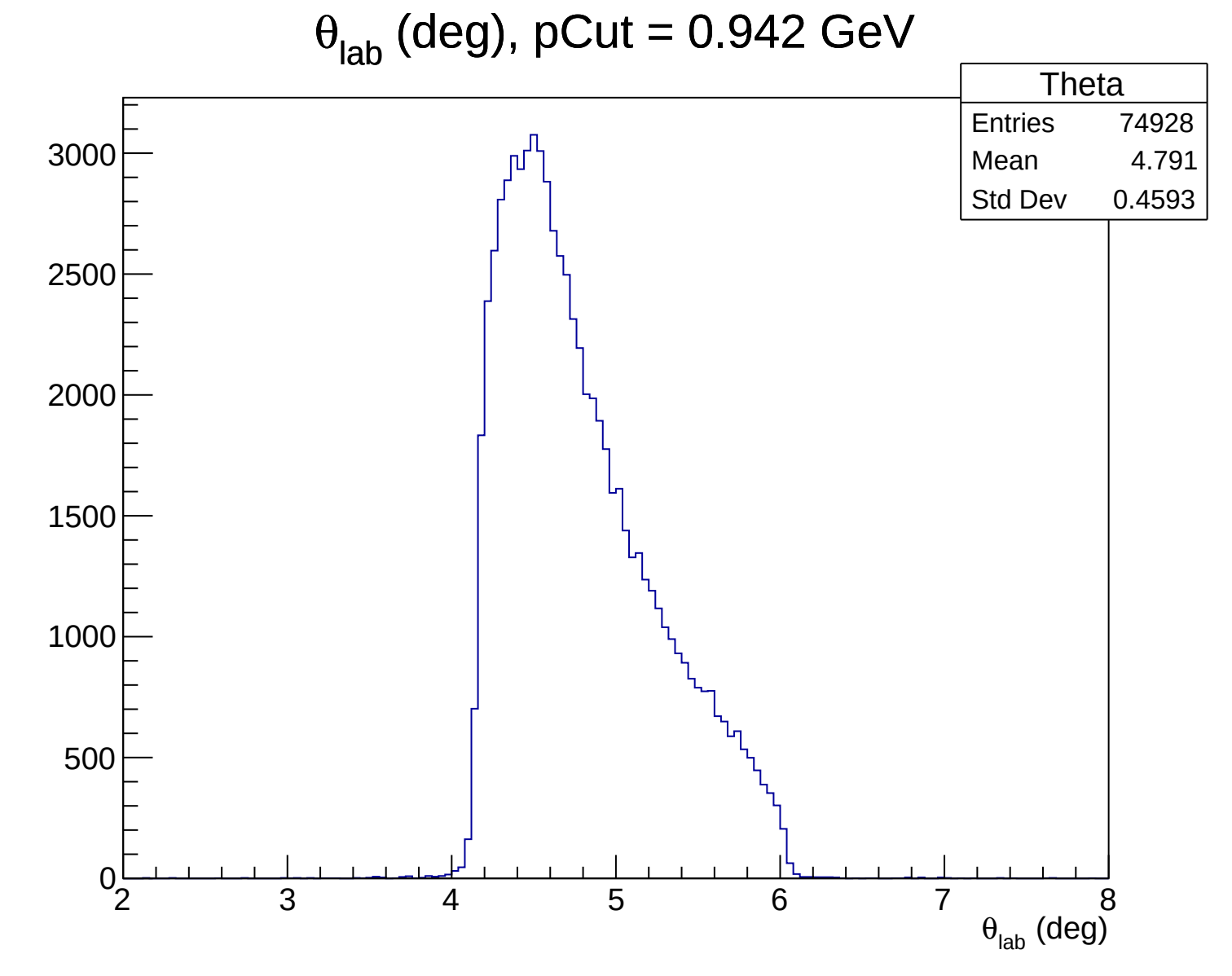

Sensitivity, pCut = 0.941 GeV
sens
Entries 76350
Mean 0.02228
Std Dev 0.003933
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

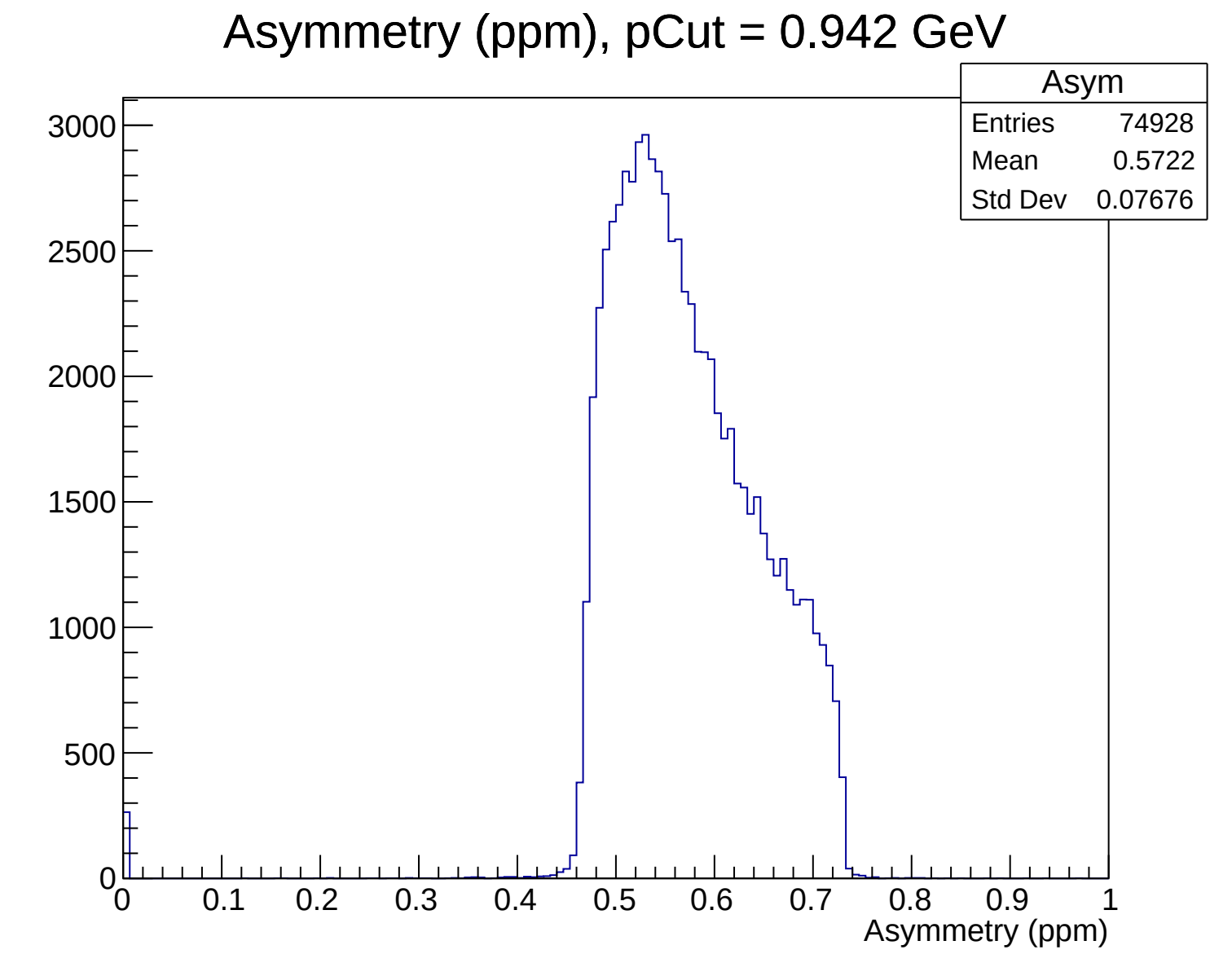
ADC raw (run21438, detZ = 1.3 m)

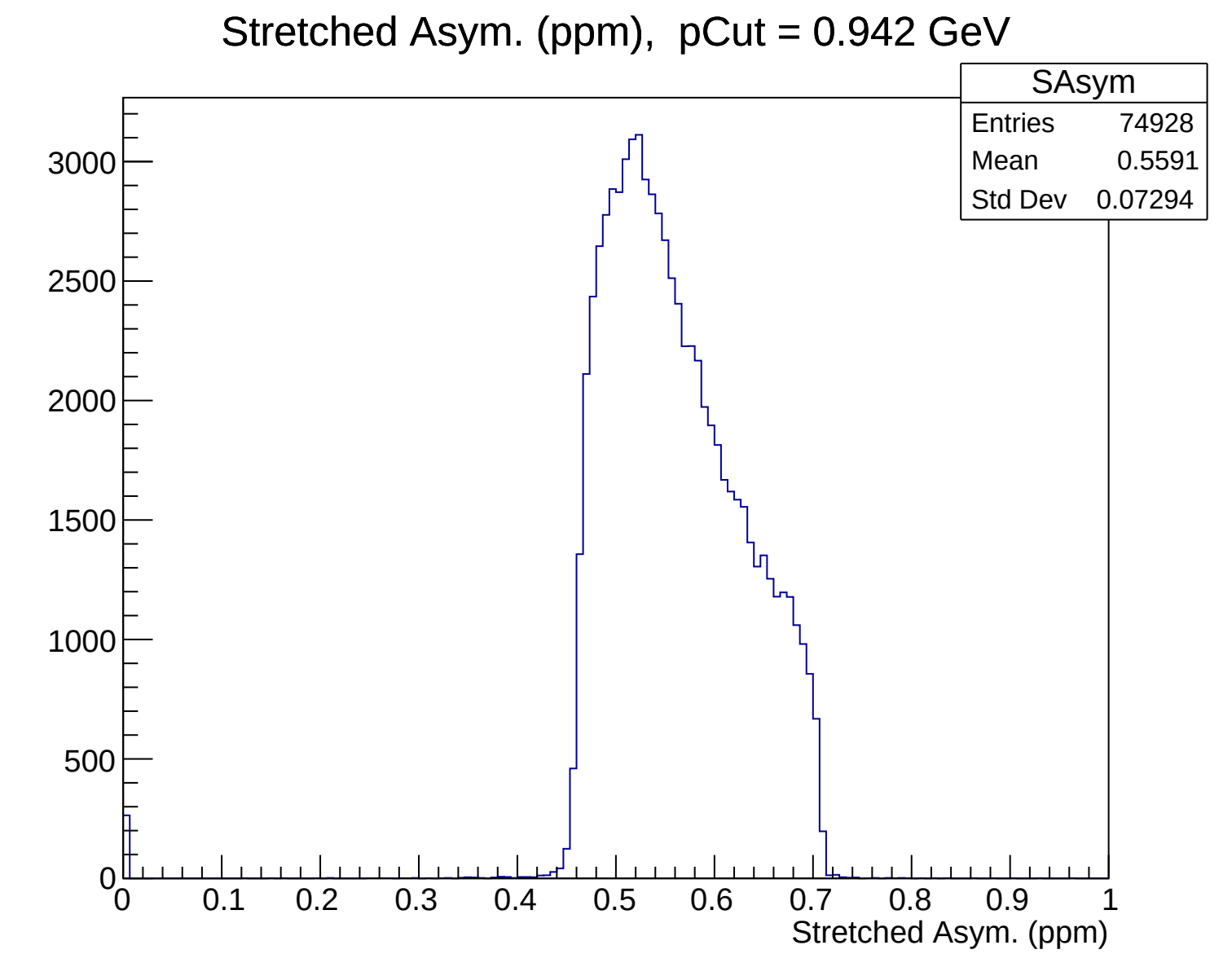


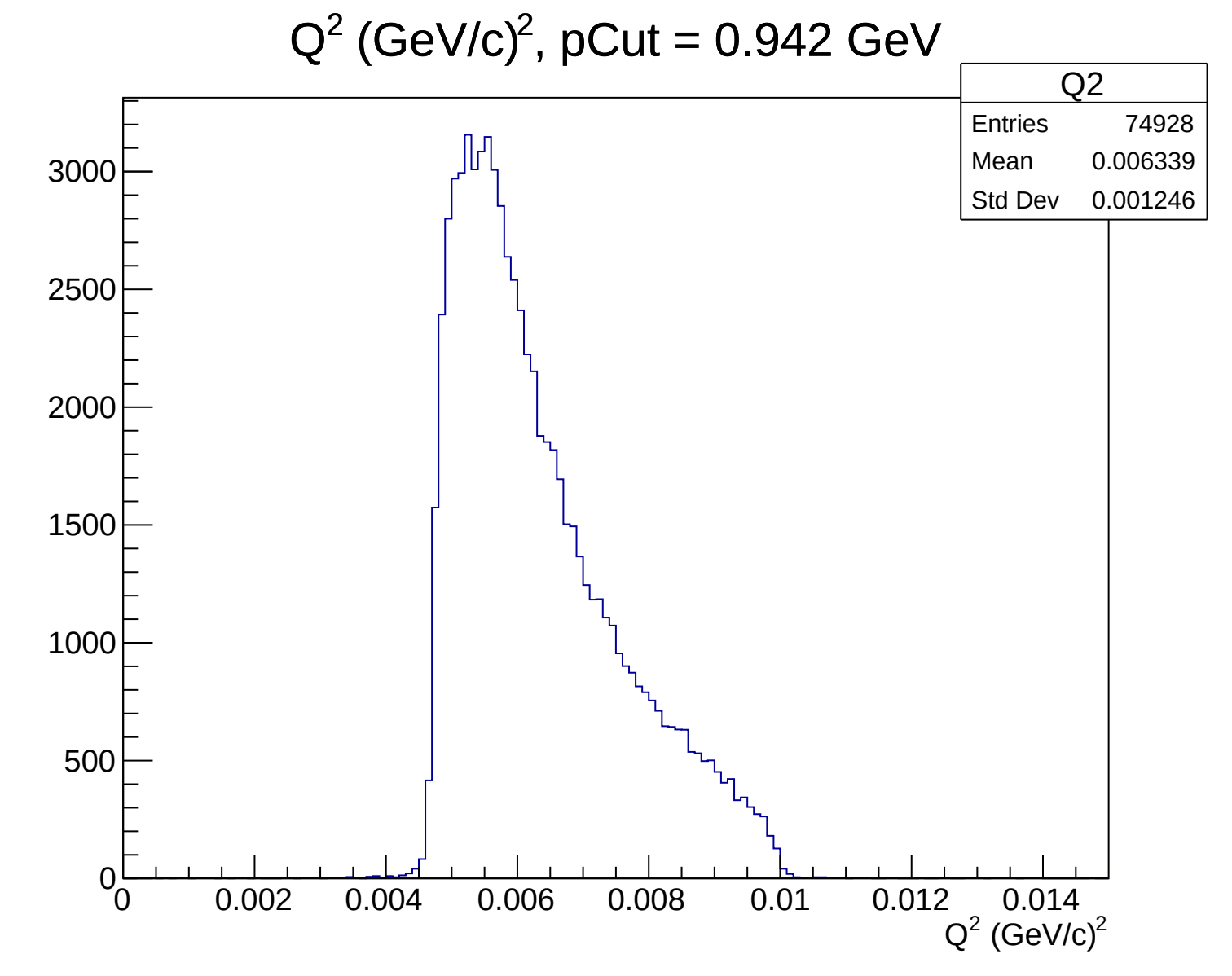
RHRS momentum (run21438)

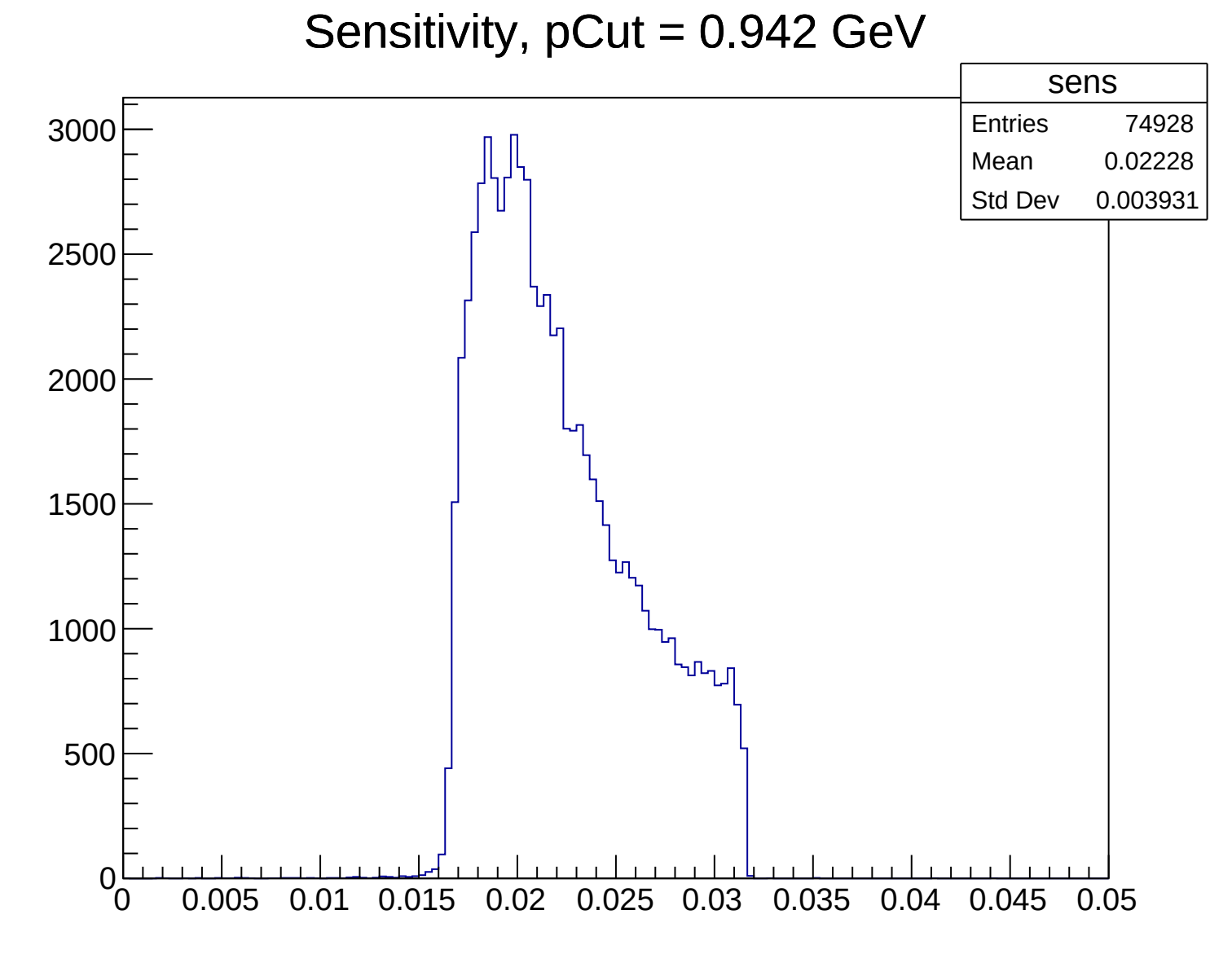


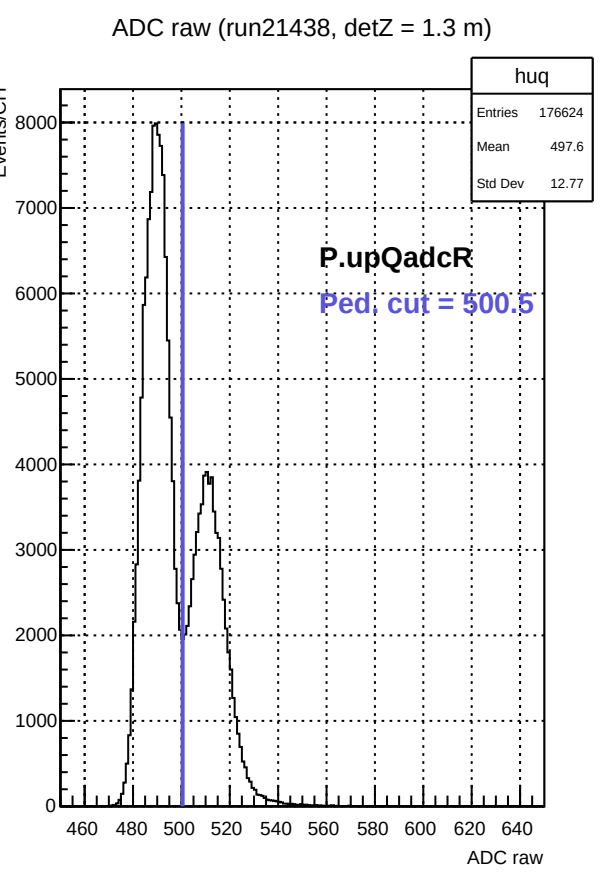

θlab (deg), pCut = 0.942 GeV
Theta
Entries 74928
Mean 4.791
Std Dev 0.4593
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

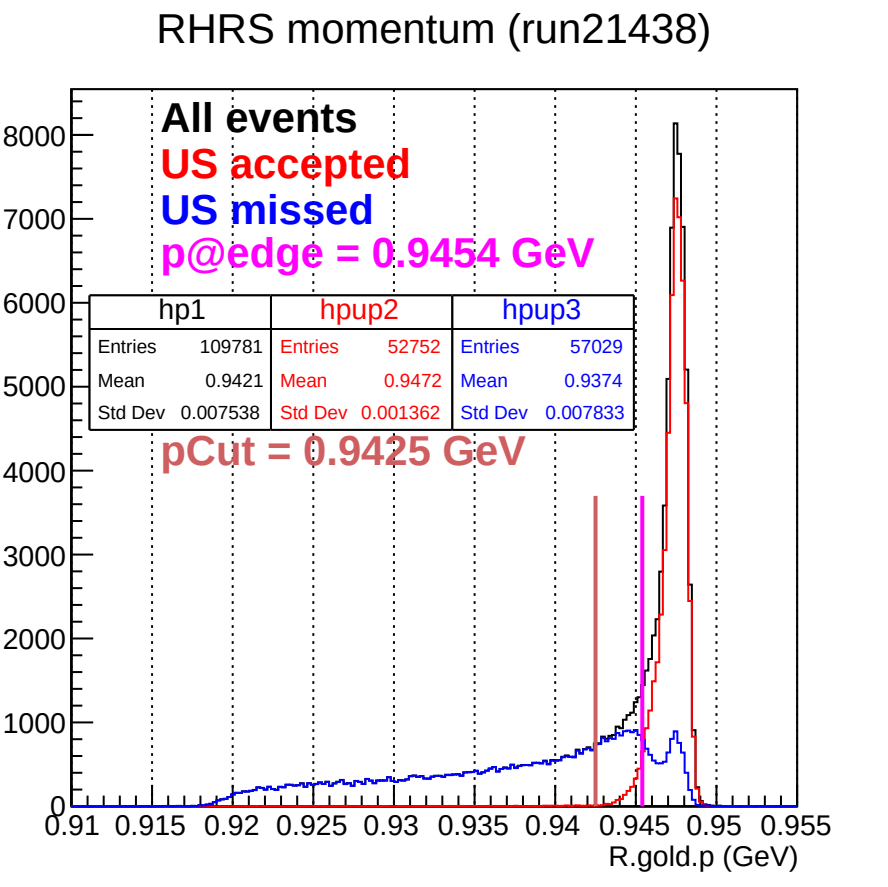

Asymmetry (ppm), pCut = 0.942 GeV
Asym
Entries 74928
Mean 0.5722
Std Dev 0.07676
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

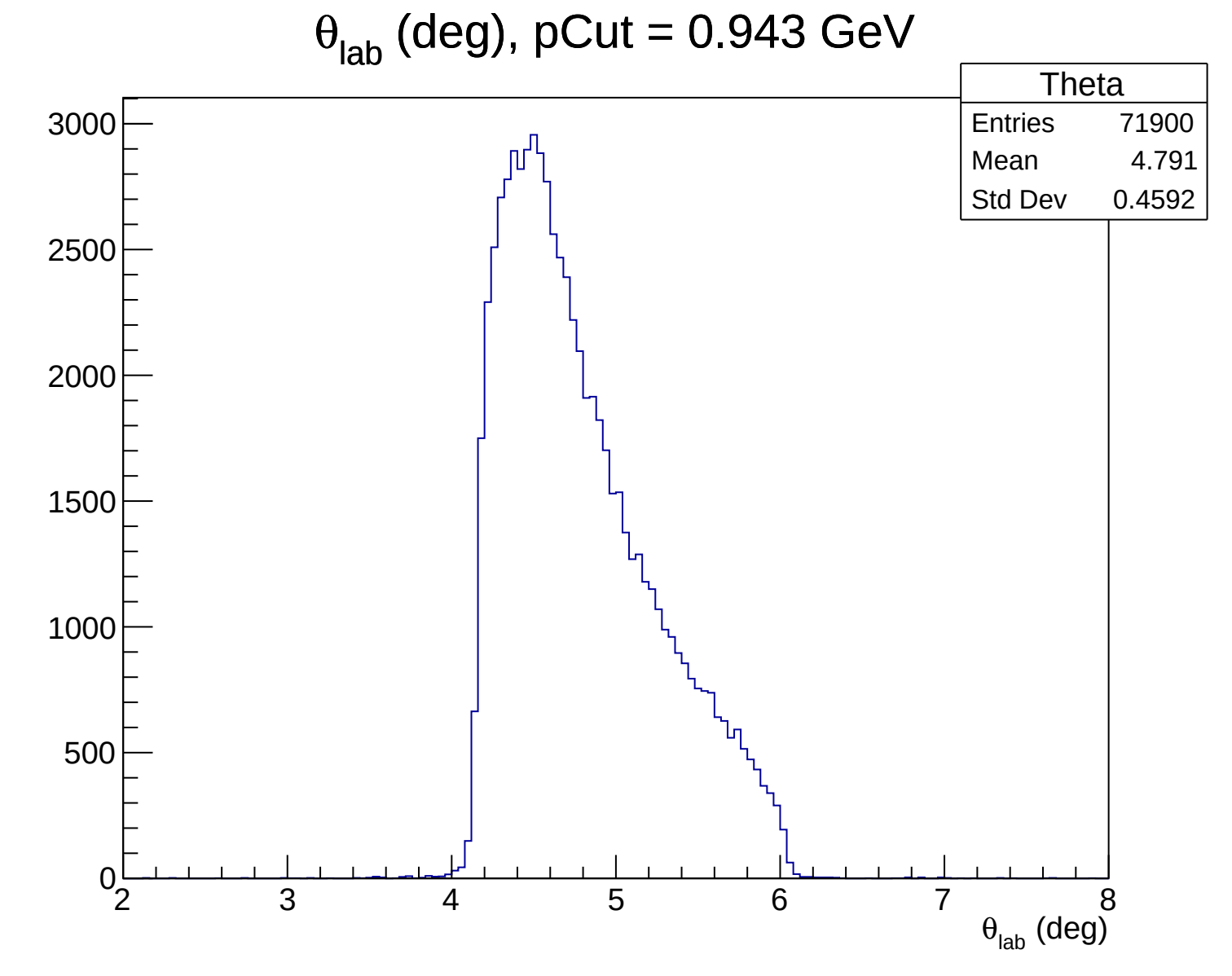

Stretched Asym. (ppm), pCut = 0.942 GeV
SAsym
Entries 74928
Mean 0.5591
Std Dev 0.07294
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

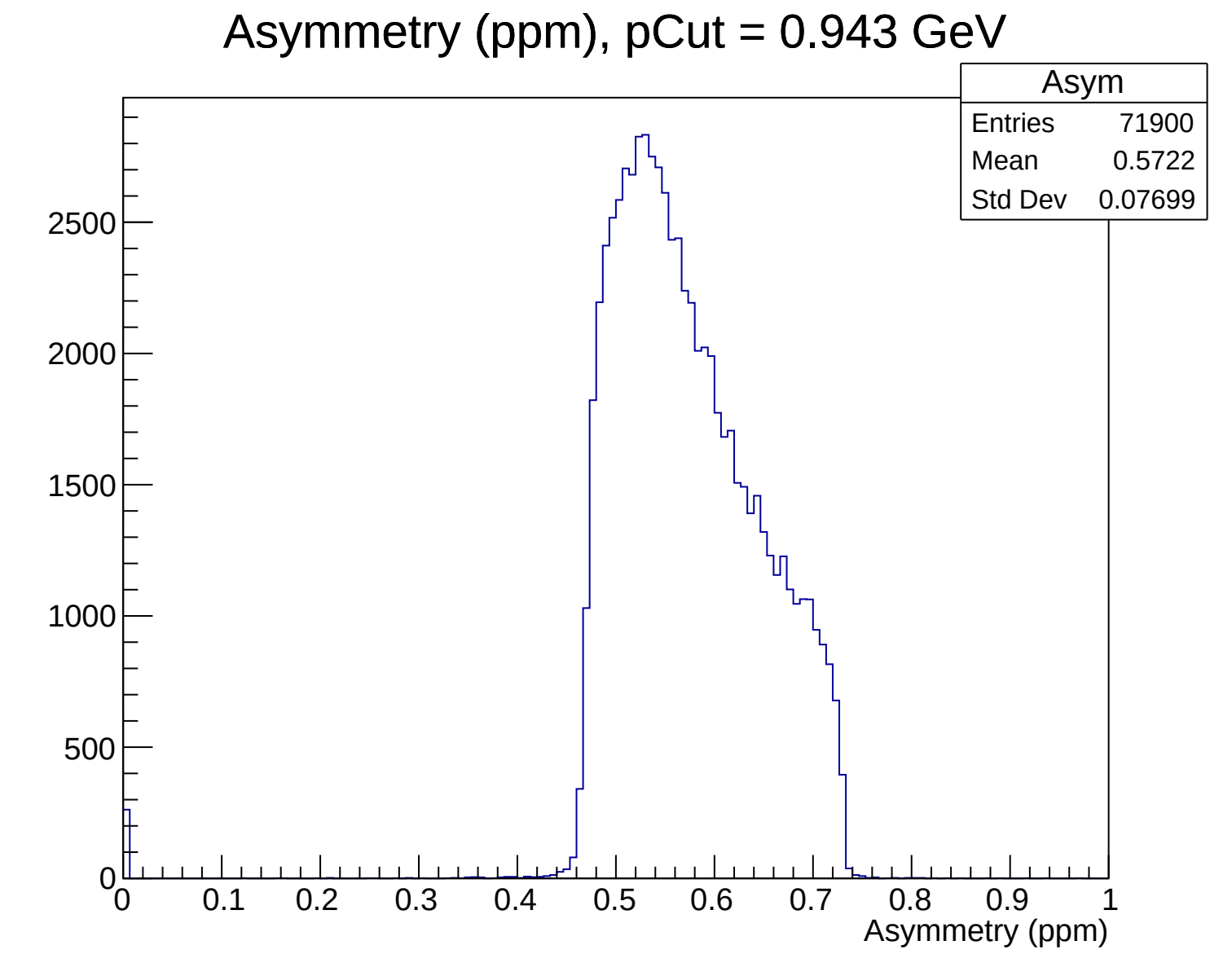

Q^2 (GeV/c)^2, pCut = 0.942 GeV
Q2
Entries 74928
Mean 0.006339
Std Dev 0.001246
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

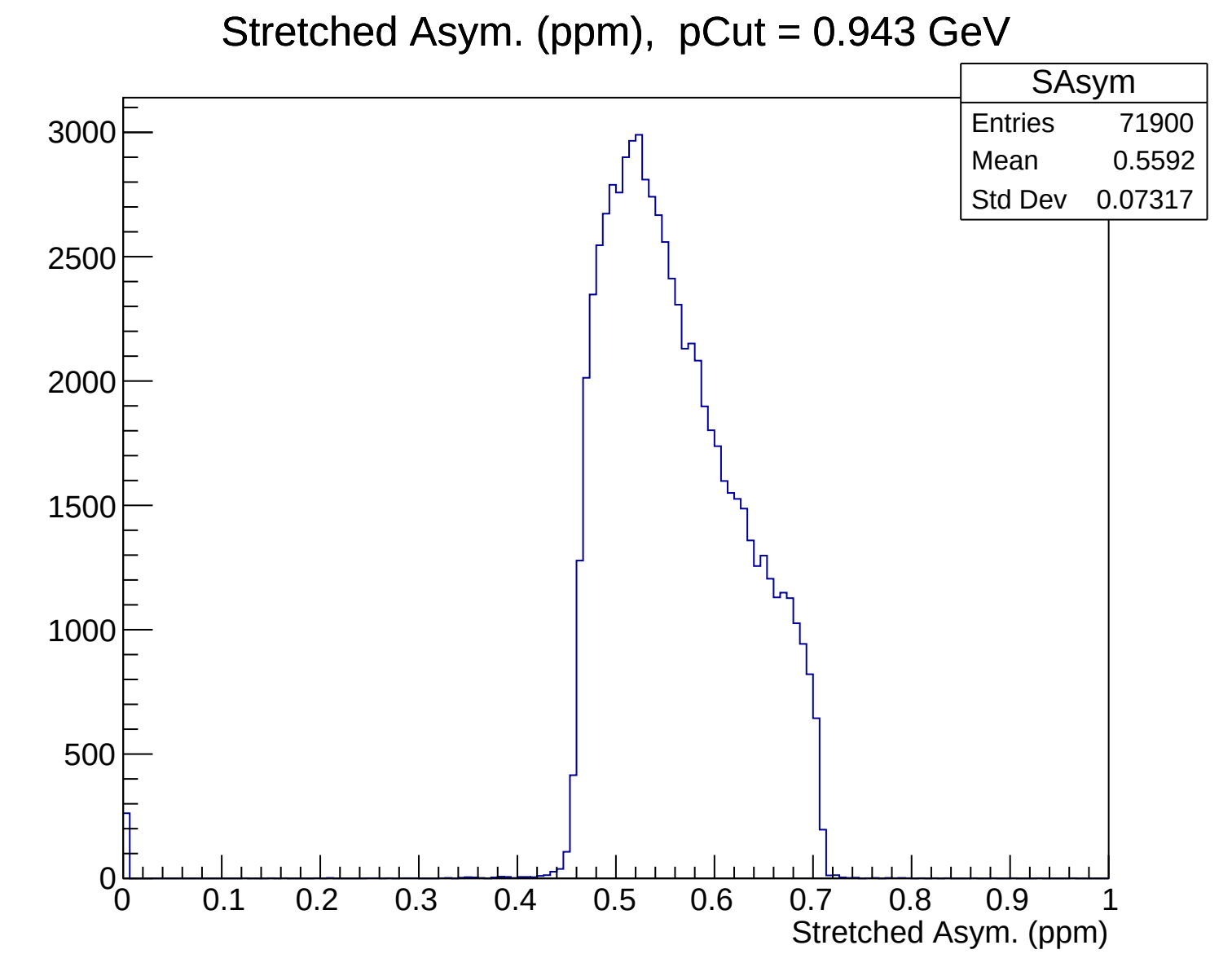

Sensitivity, pCut = 0.942 GeV
sens
Entries 74928
Mean 0.02228
Std Dev 0.003931
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

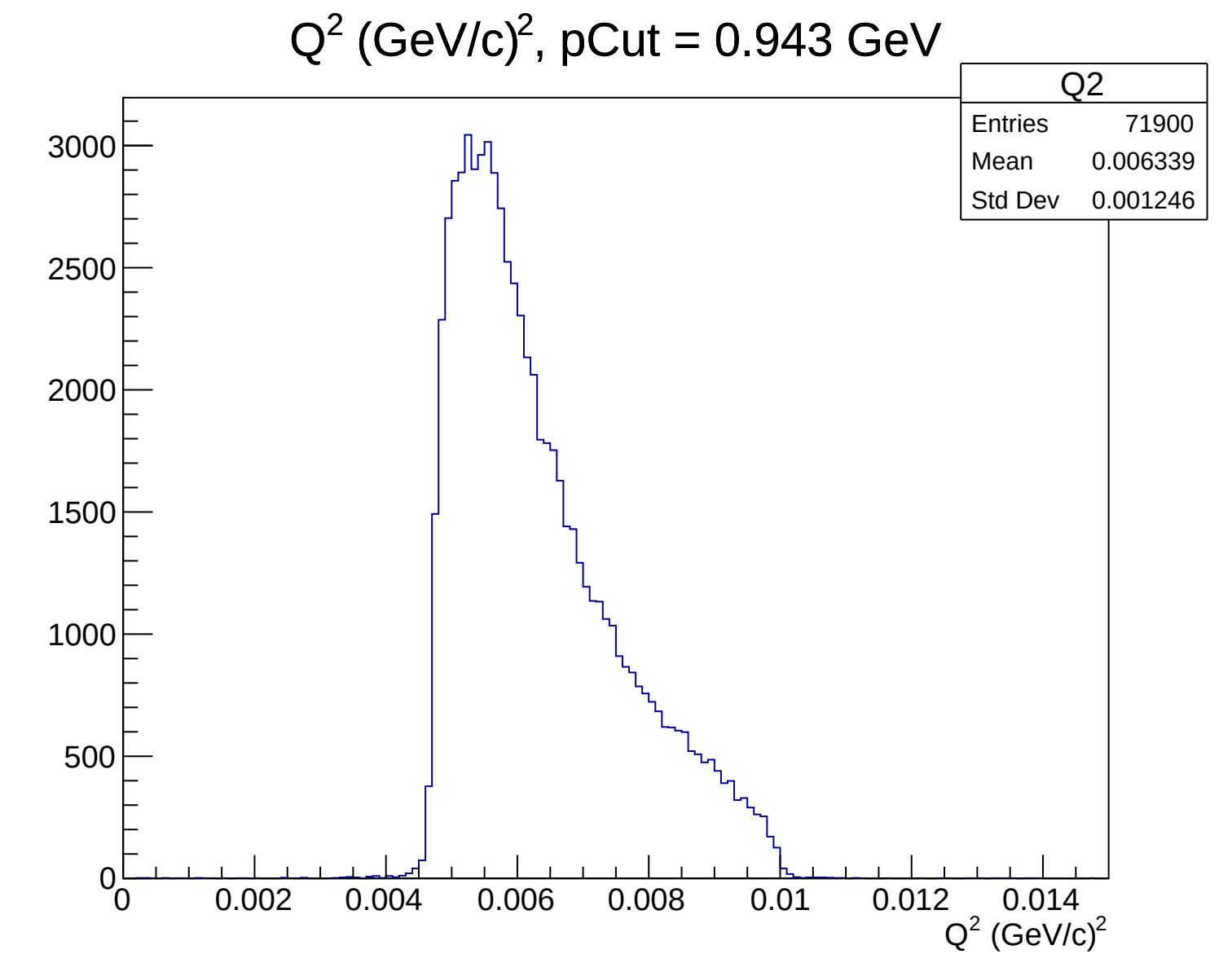

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
ADC raw

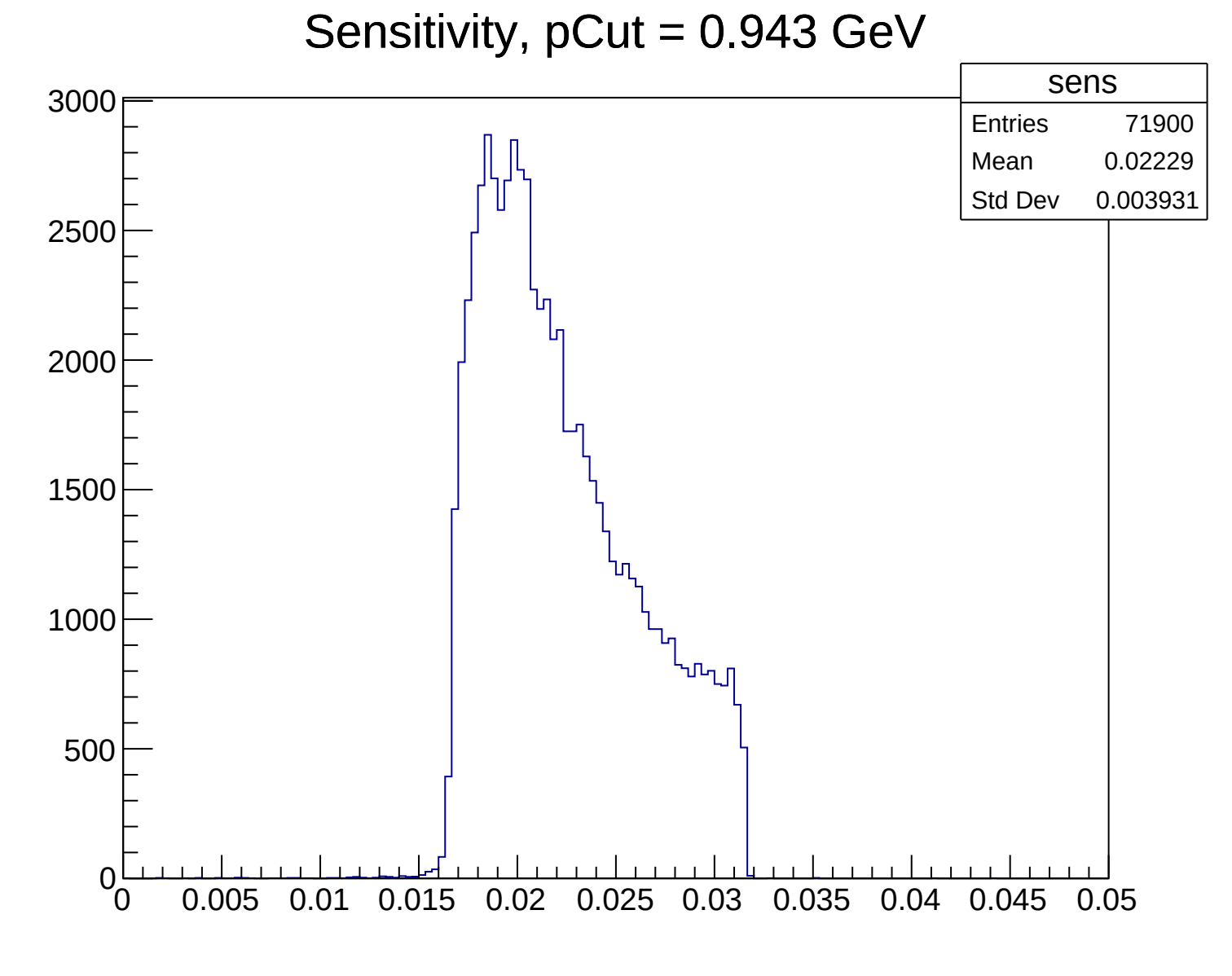

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9425 GeV
R.gold.p (GeV)


θlab (deg), pCut = 0.943 GeV
Theta
Entries 71900
Mean 4.791
Std Dev 0.4592
3000
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

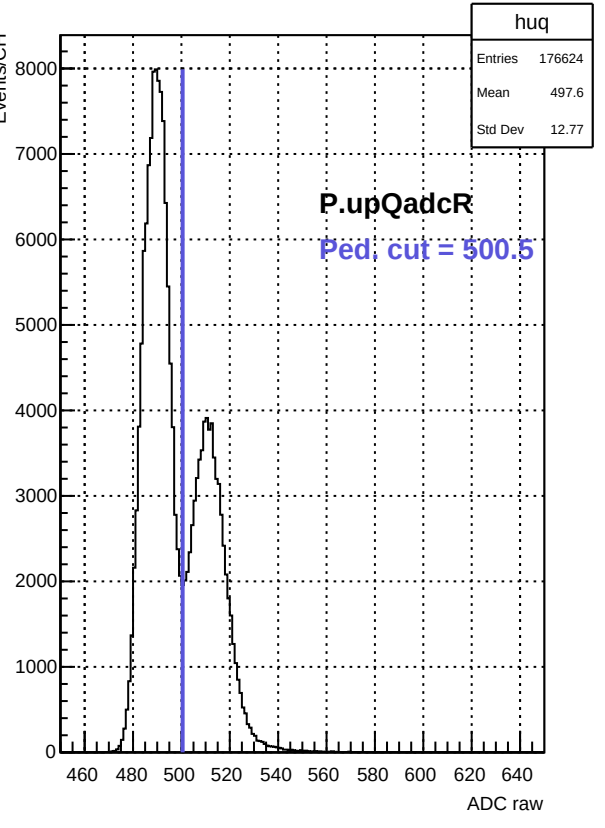

Asymmetry (ppm), pCut = 0.943 GeV
Asym
Entries 71900
Mean 0.5722
Std Dev 0.07699
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.943 GeV
SAsym
Entries 71900
Mean 0.5592
Std Dev 0.07317
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)

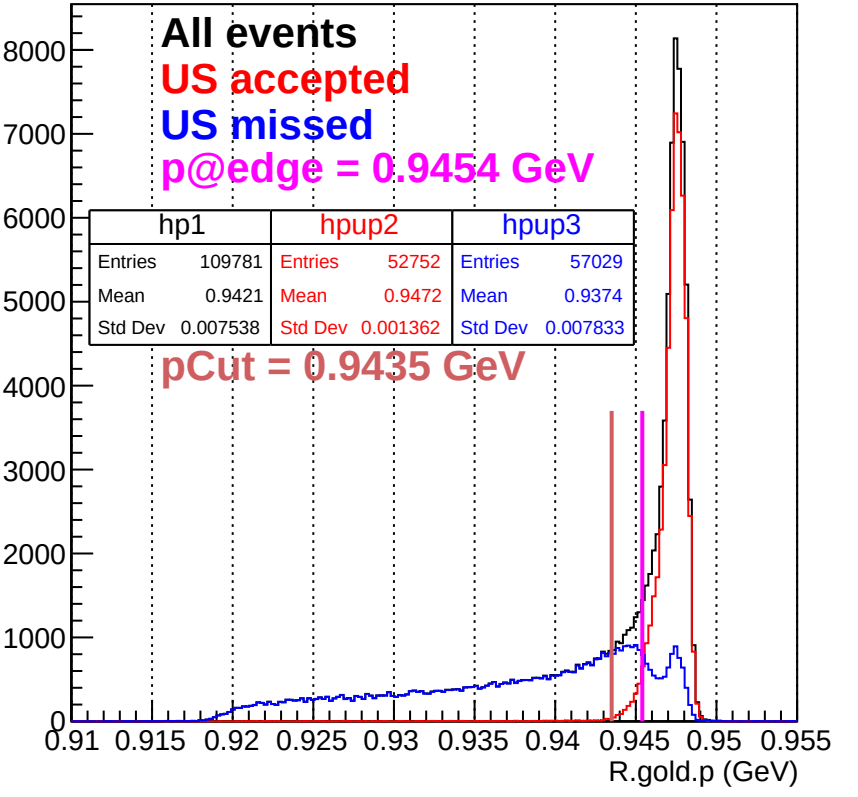

Q^2 (GeV/c)^2, pCut = 0.943 GeV
Q2
Entries 71900
Mean 0.006339
Std Dev 0.001246
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

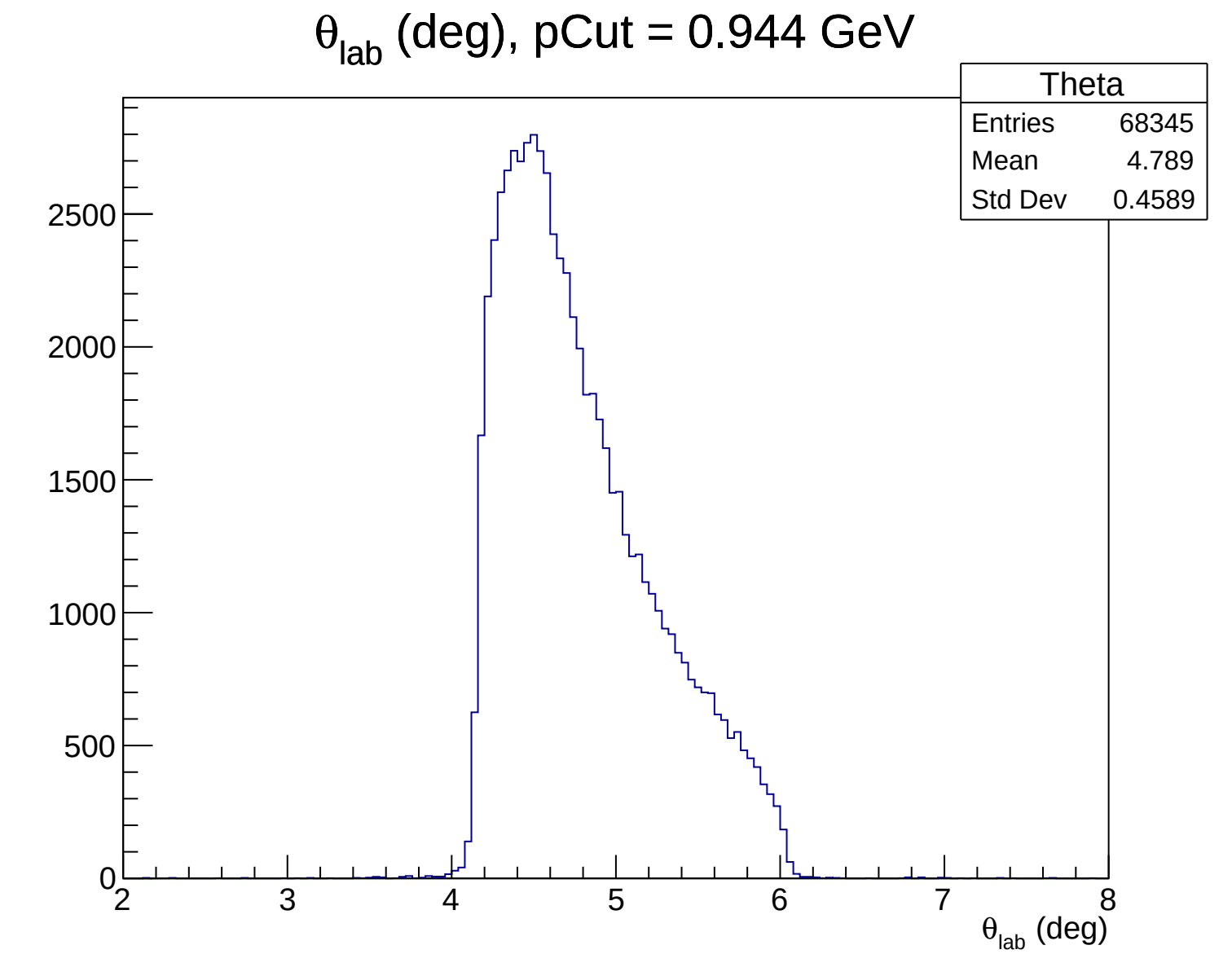

Sensitivity, pCut = 0.943 GeV
sens
Entries 71900
Mean 0.02229
Std Dev 0.003931
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

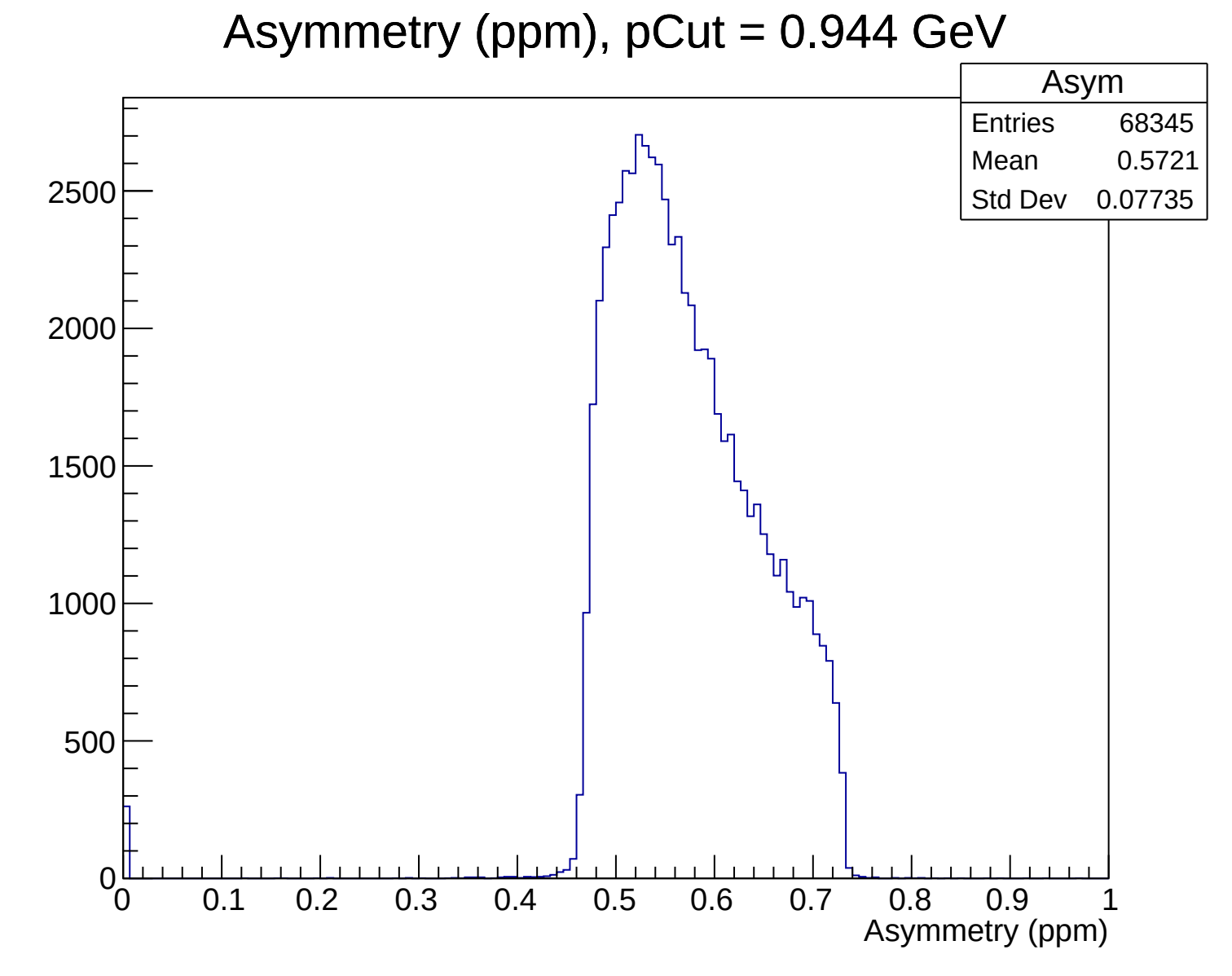
ADC raw (run21438, detZ = 1.3 m)

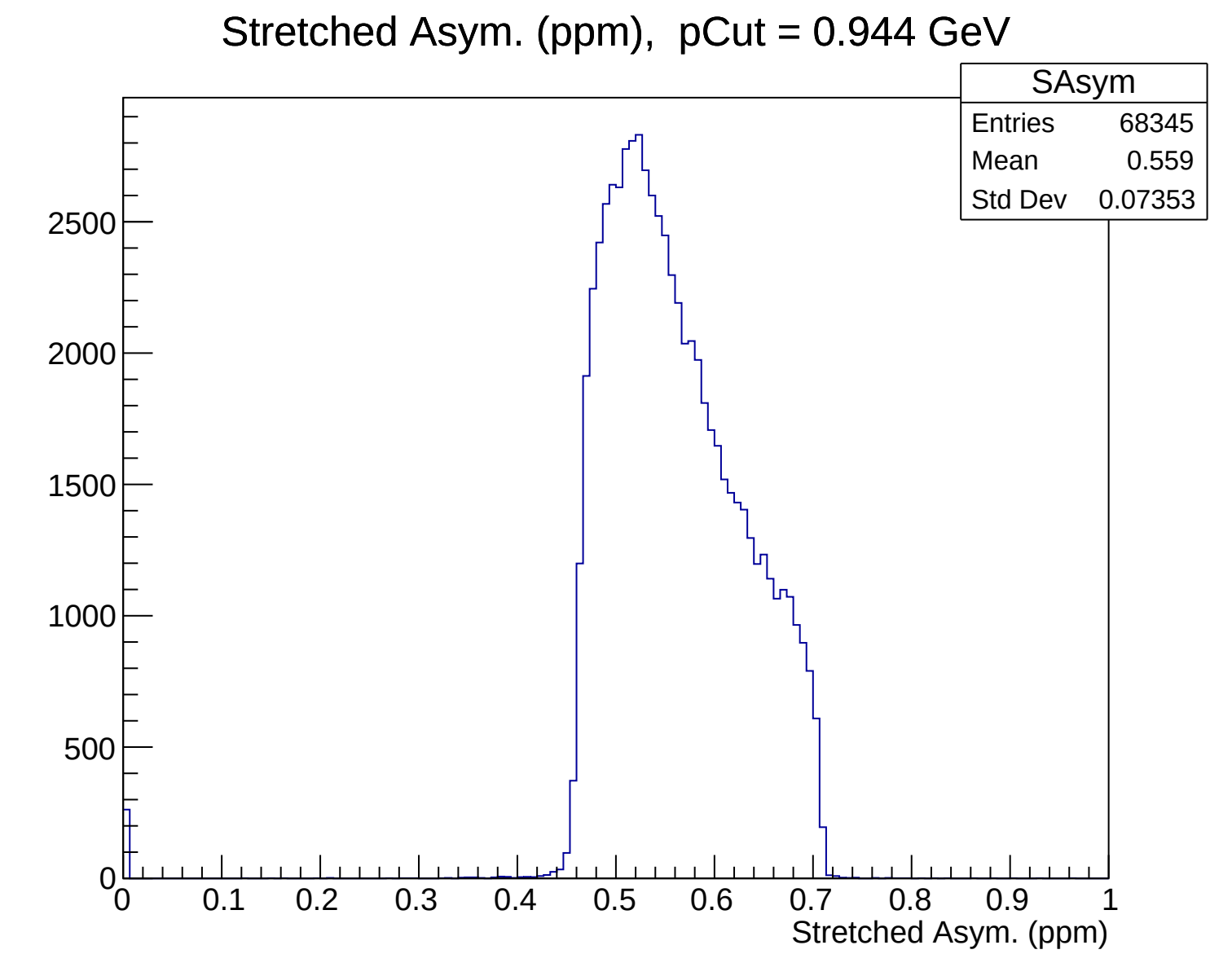


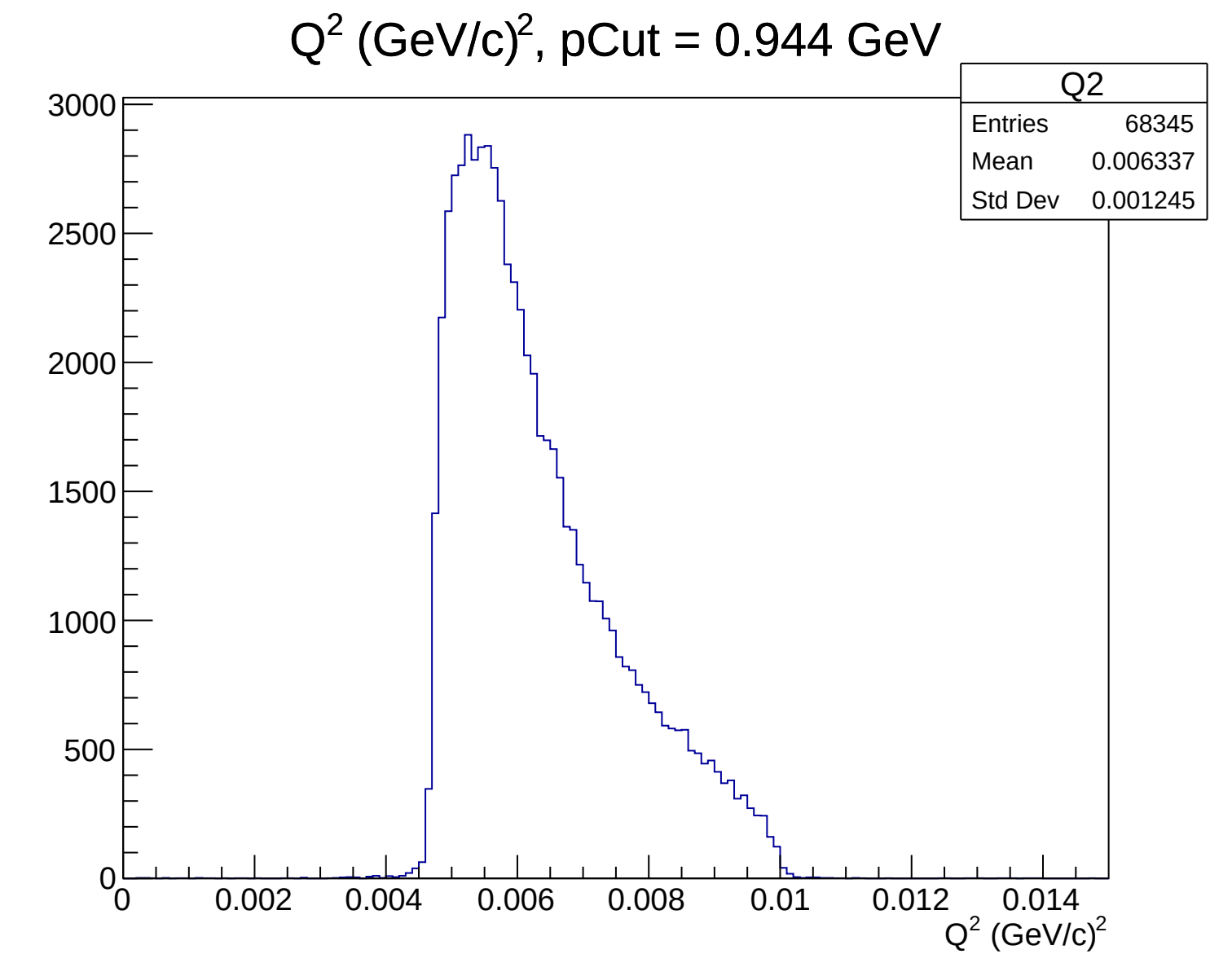
RHRS momentum (run21438)

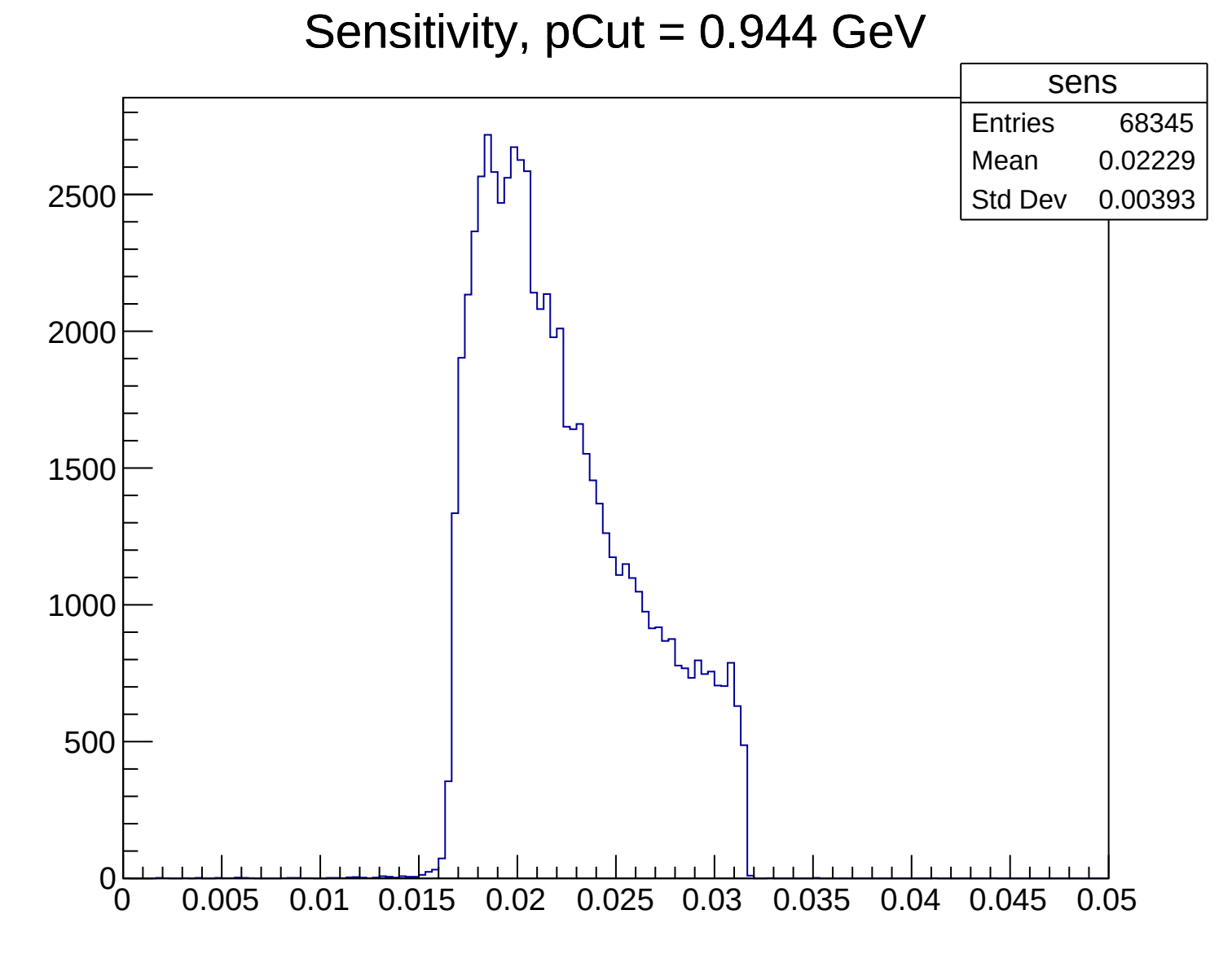


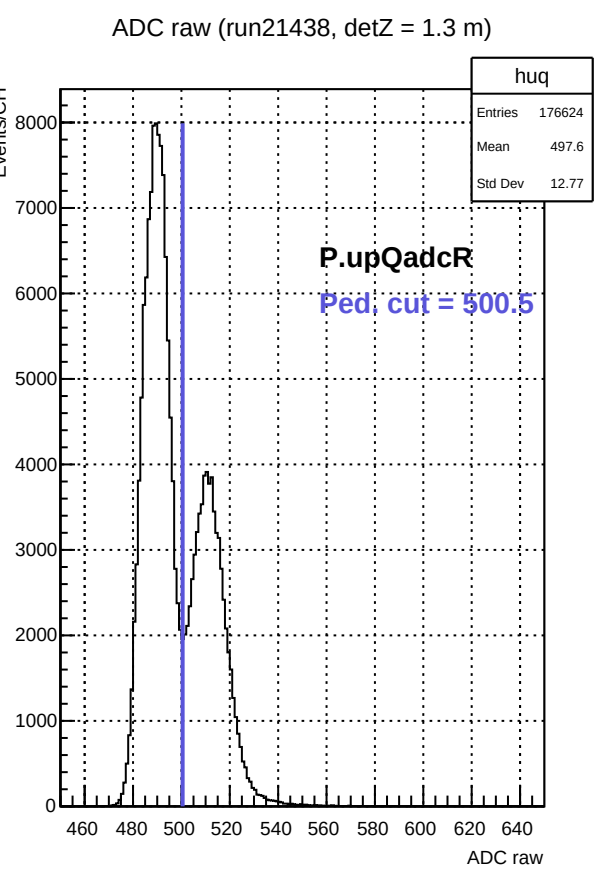

θlab (deg), pCut = 0.944 GeV
Theta
Entries 68345
Mean 4.789
Std Dev 0.4589
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

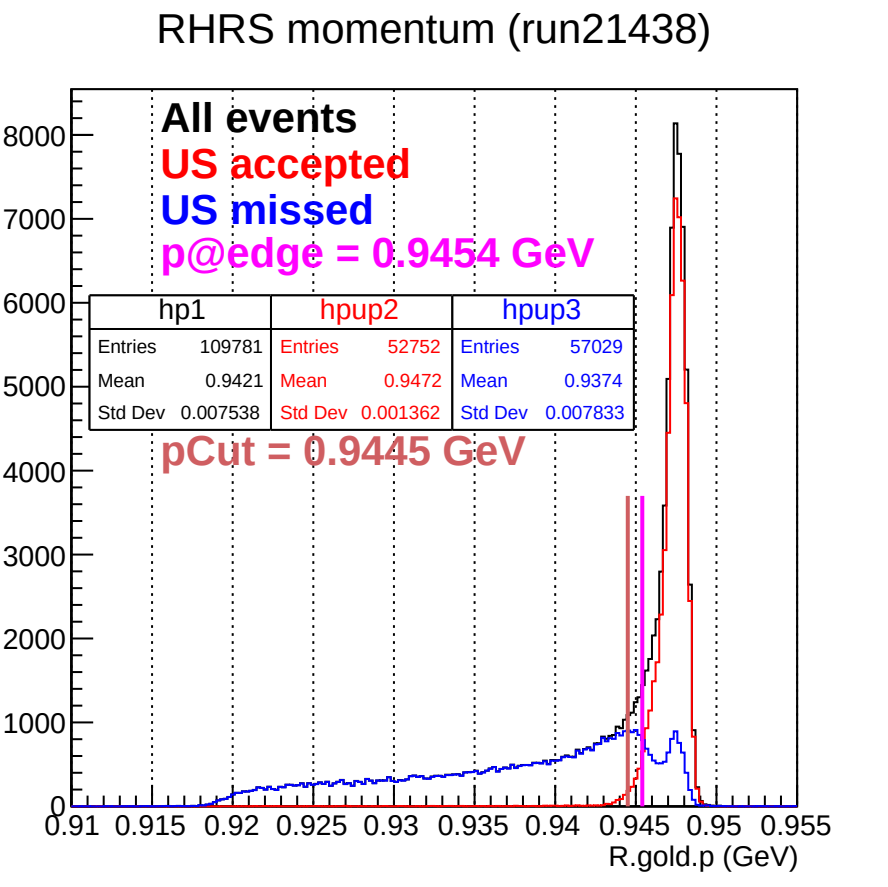

Asymmetry (ppm), pCut = 0.944 GeV
Asym
Entries 68345
Mean 0.5721
Std Dev 0.07735
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

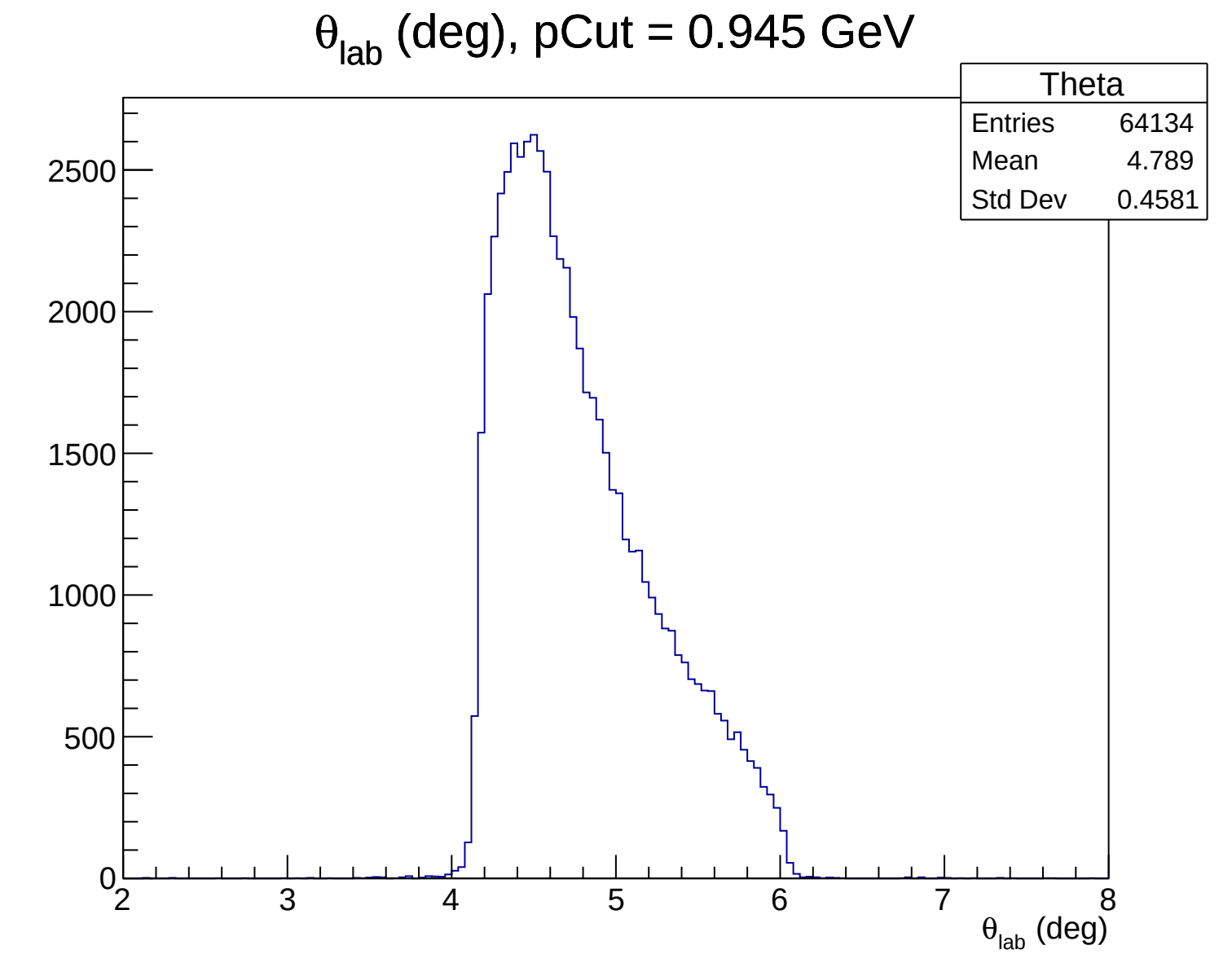

Stretched Asym. (ppm), pCut = 0.944 GeV
SAsym
Entries 68345
Mean 0.559
Std Dev 0.07353
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

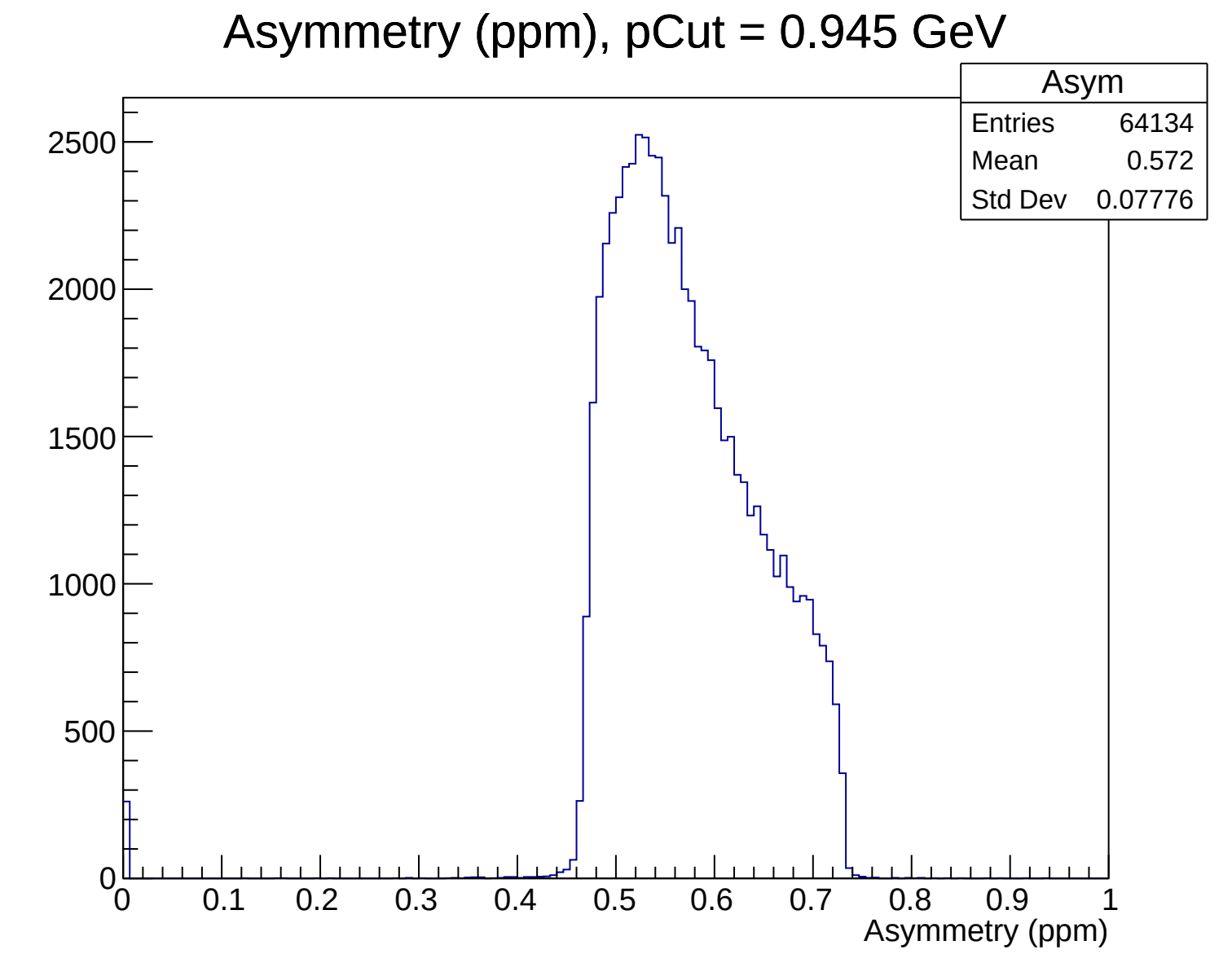

Q^2 (GeV/c)^2, pCut = 0.944 GeV
Q2
Entries 68345
Mean 0.006337
Std Dev 0.001245
3000
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

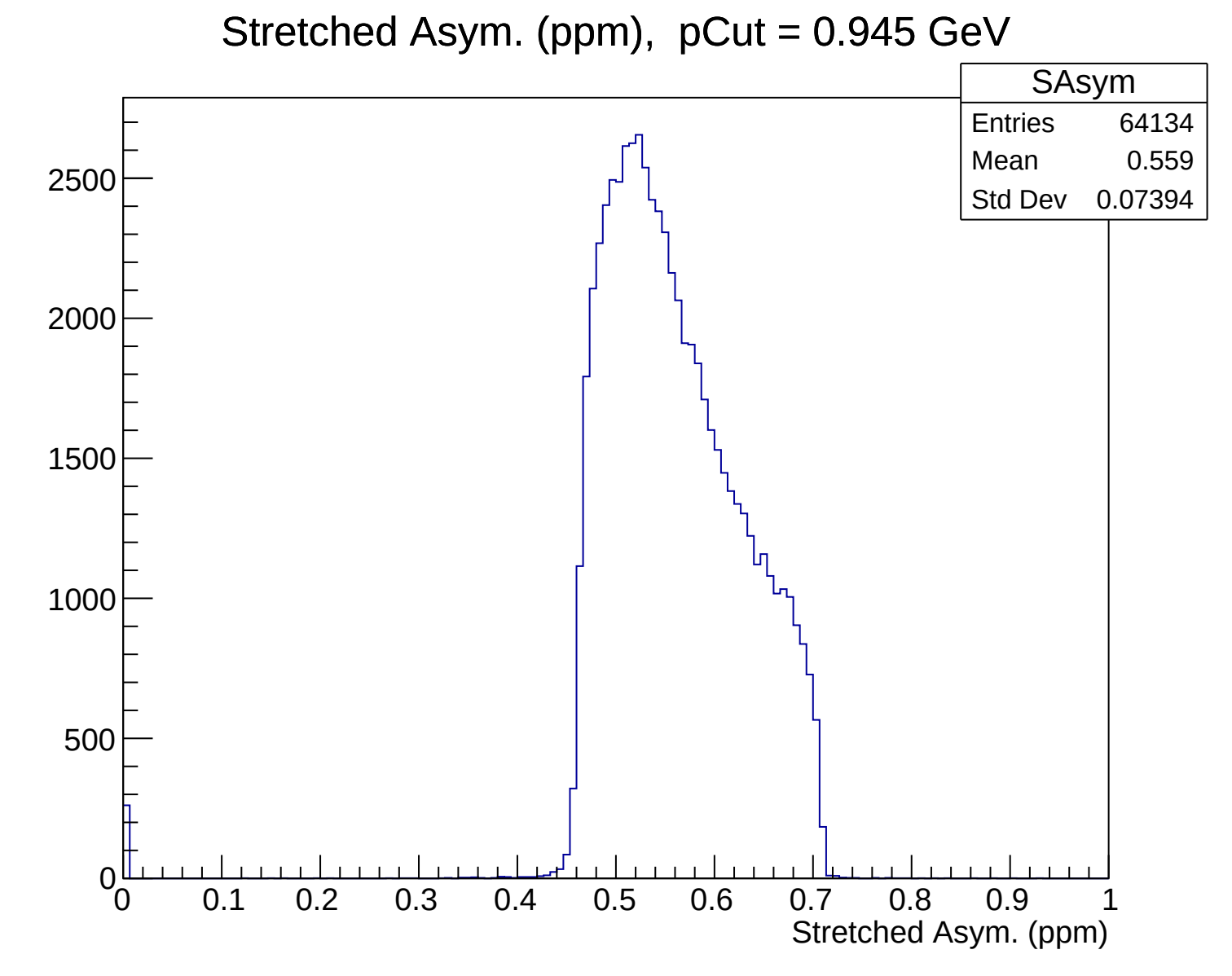

Sensitivity, pCut = 0.944 GeV
sens
Entries 68345
Mean 0.02229
Std Dev 0.00393
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

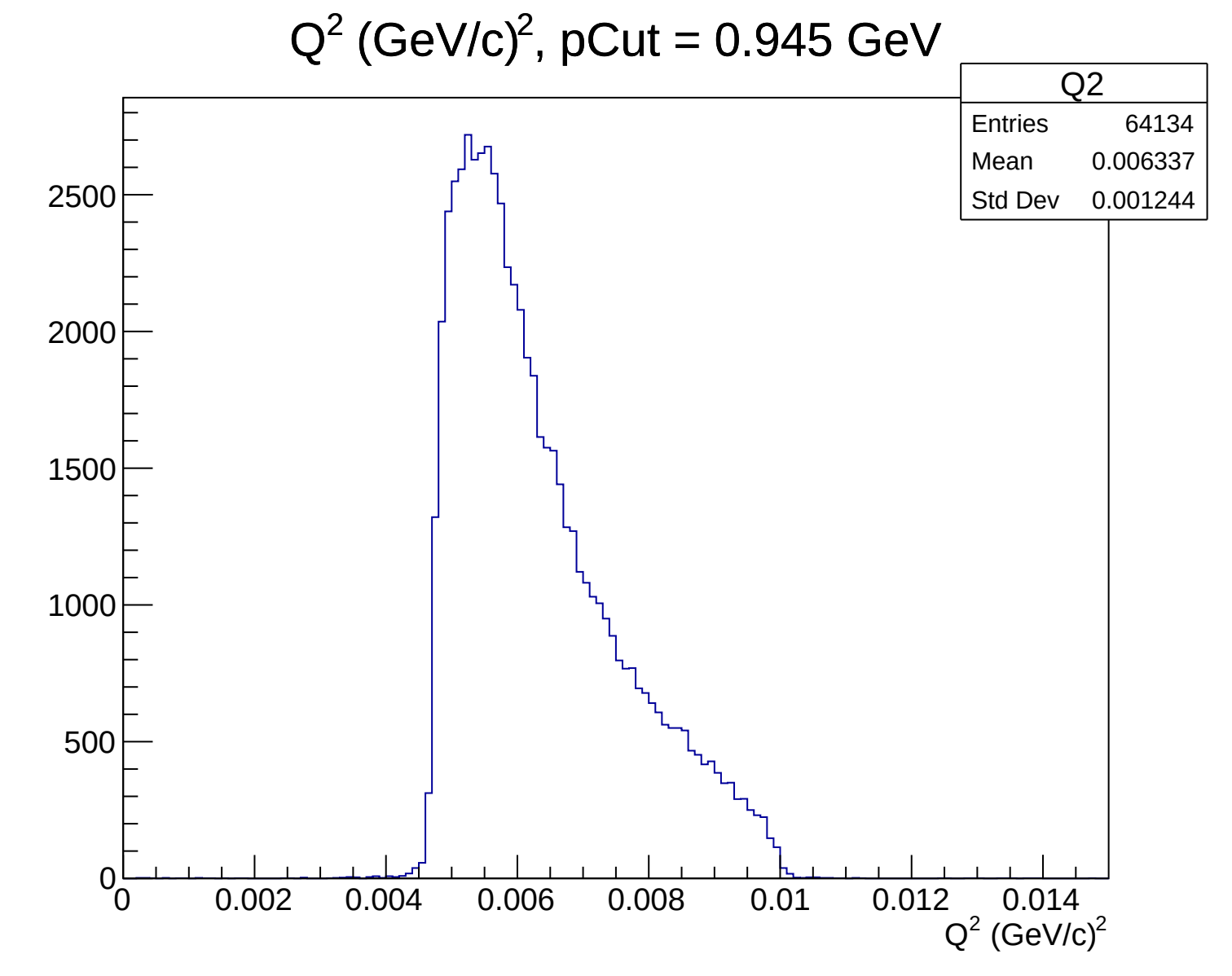

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
8000
7000
6000
5000
4000
3000
2000
1000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

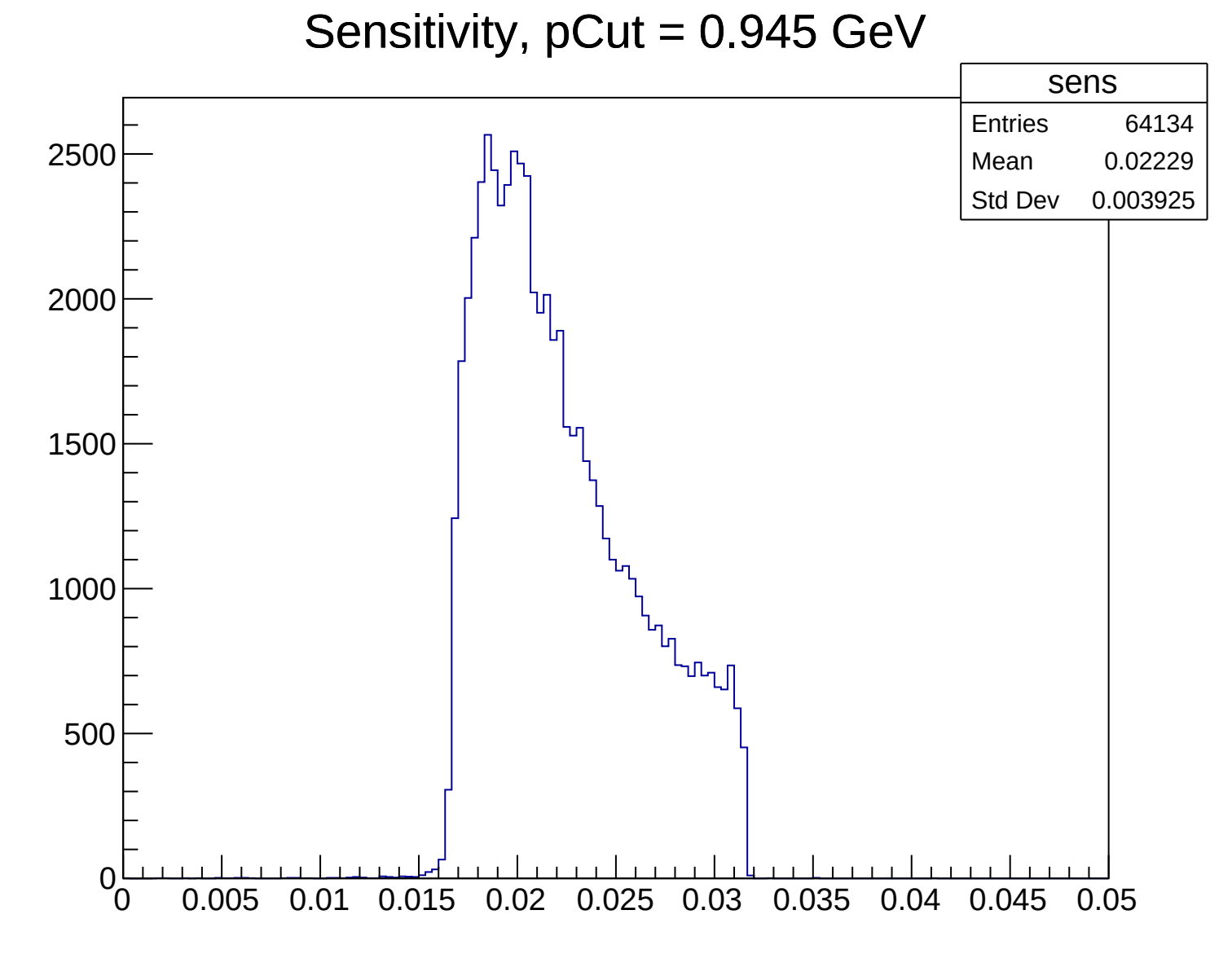

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9445 GeV
8000
7000
6000
5000
4000
3000
2000
1000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

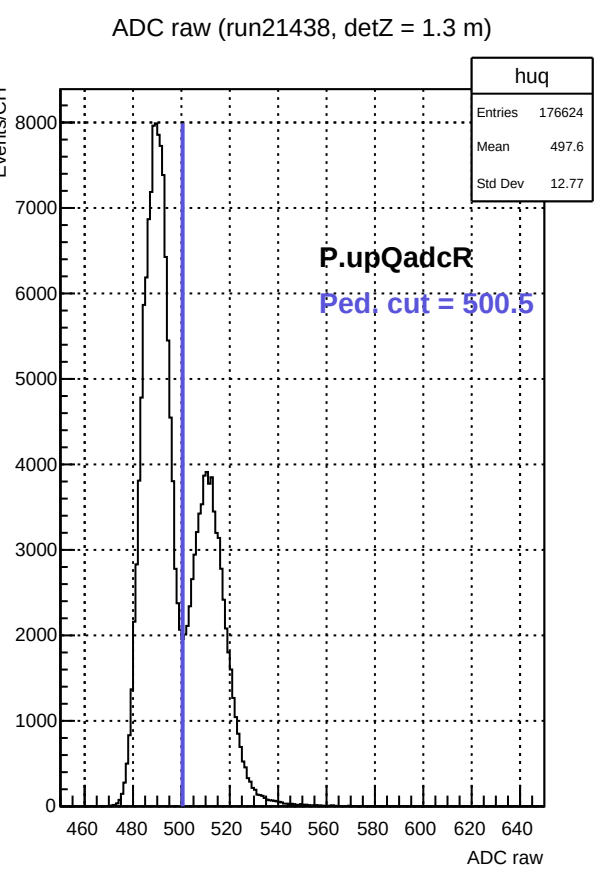

θlab (deg), pCut = 0.945 GeV
Theta
Entries 64134
Mean 4.789
Std Dev 0.4581
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

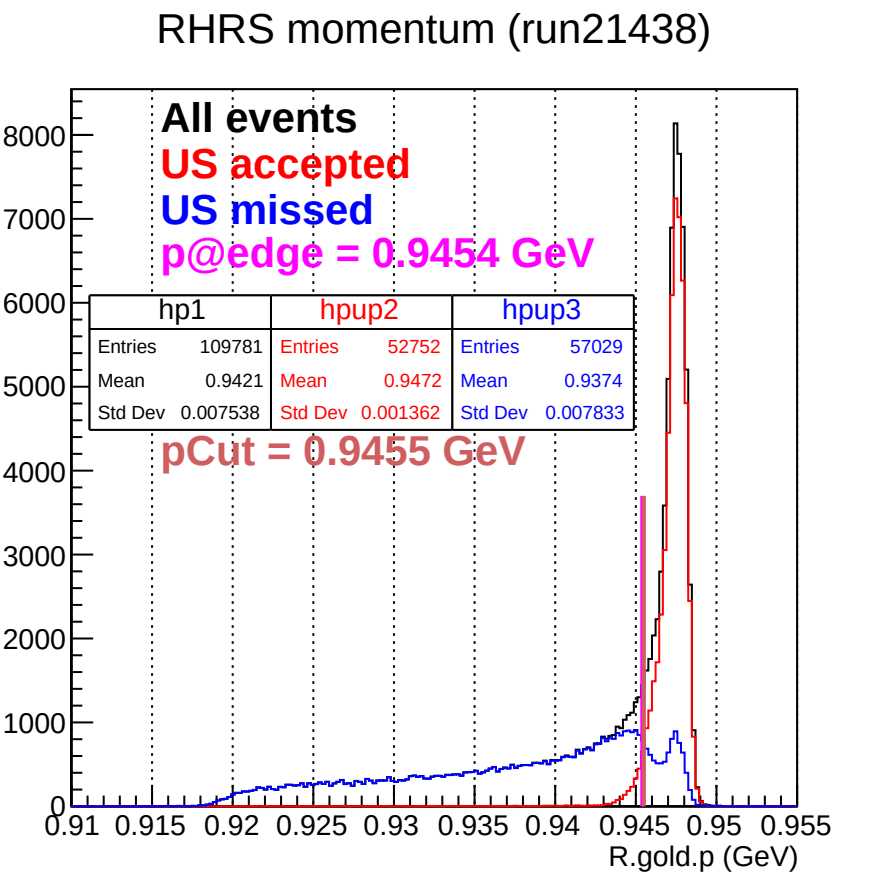

Asymmetry (ppm), pCut = 0.945 GeV
Asym
Entries 64134
Mean 0.572
Std Dev 0.07776
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

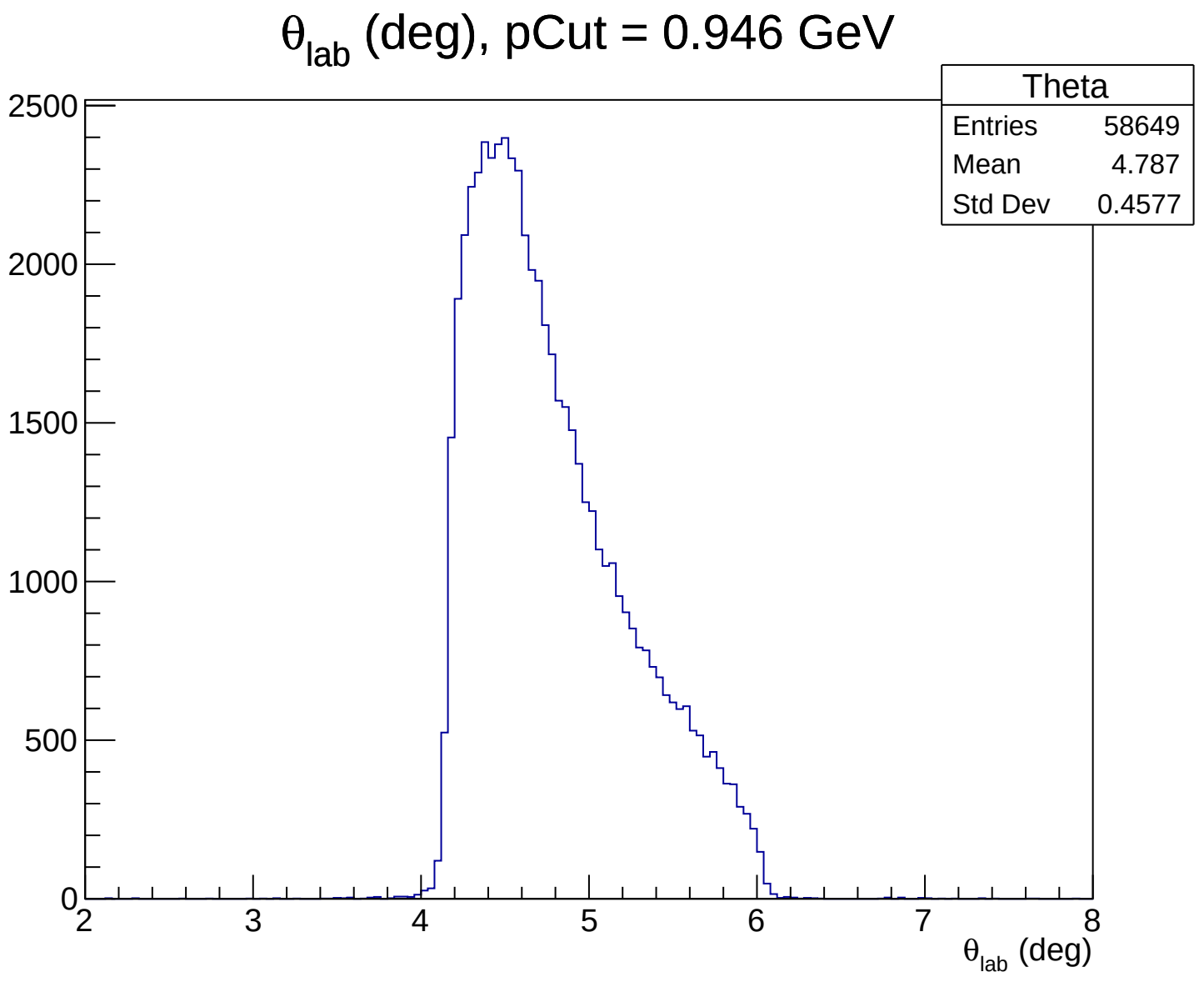

Stretched Asym. (ppm), pCut = 0.945 GeV
SAsym
Entries 64134
Mean 0.559
Std Dev 0.07394
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

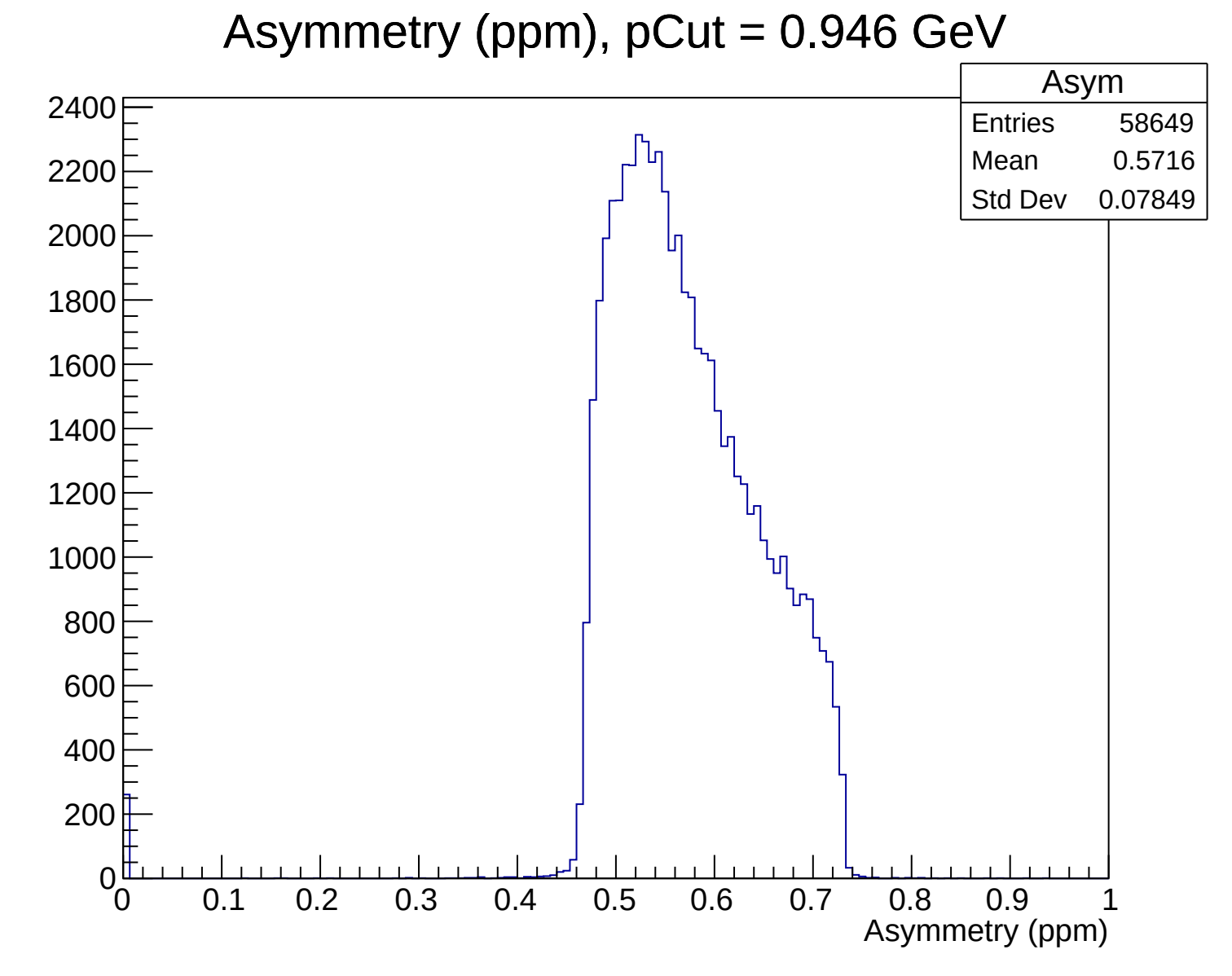

Q^2 (GeV/c)^2, pCut = 0.945 GeV
Q2
Entries 64134
Mean 0.006337
Std Dev 0.001244
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

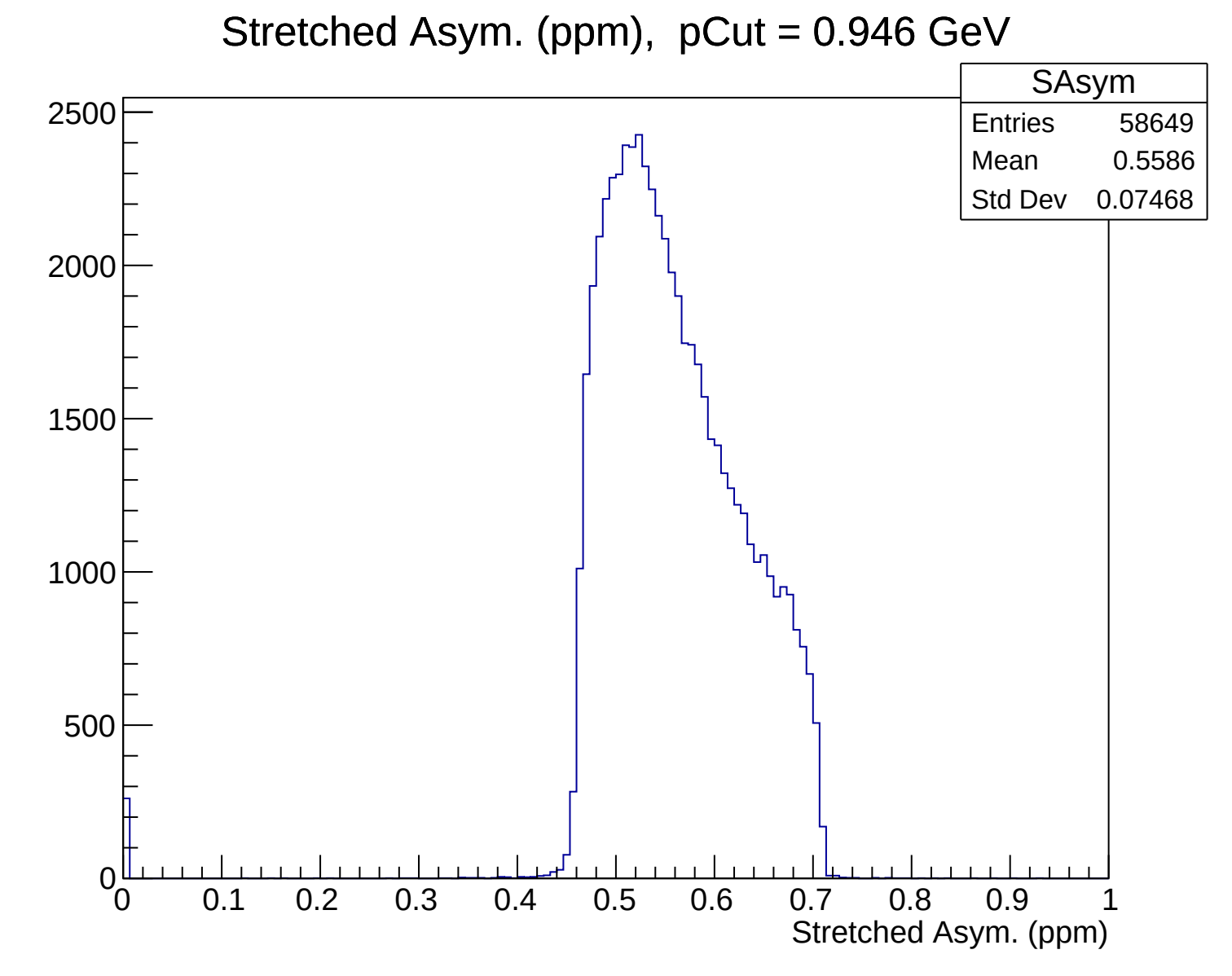

Sensitivity, pCut = 0.945 GeV
sens
Entries 64134
Mean 0.02229
Std Dev 0.003925
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

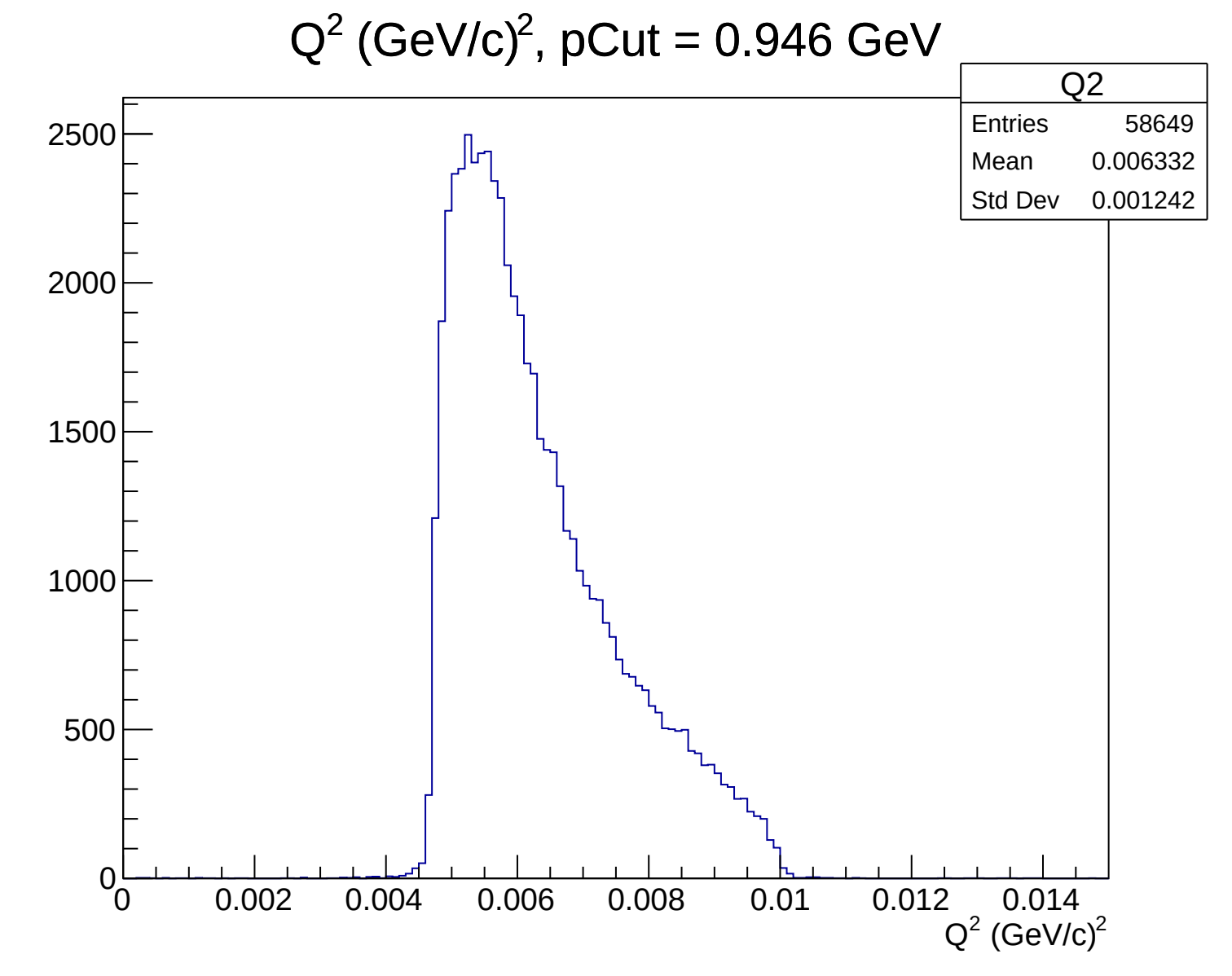

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
8000
7000
6000
5000
4000
3000
2000
1000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

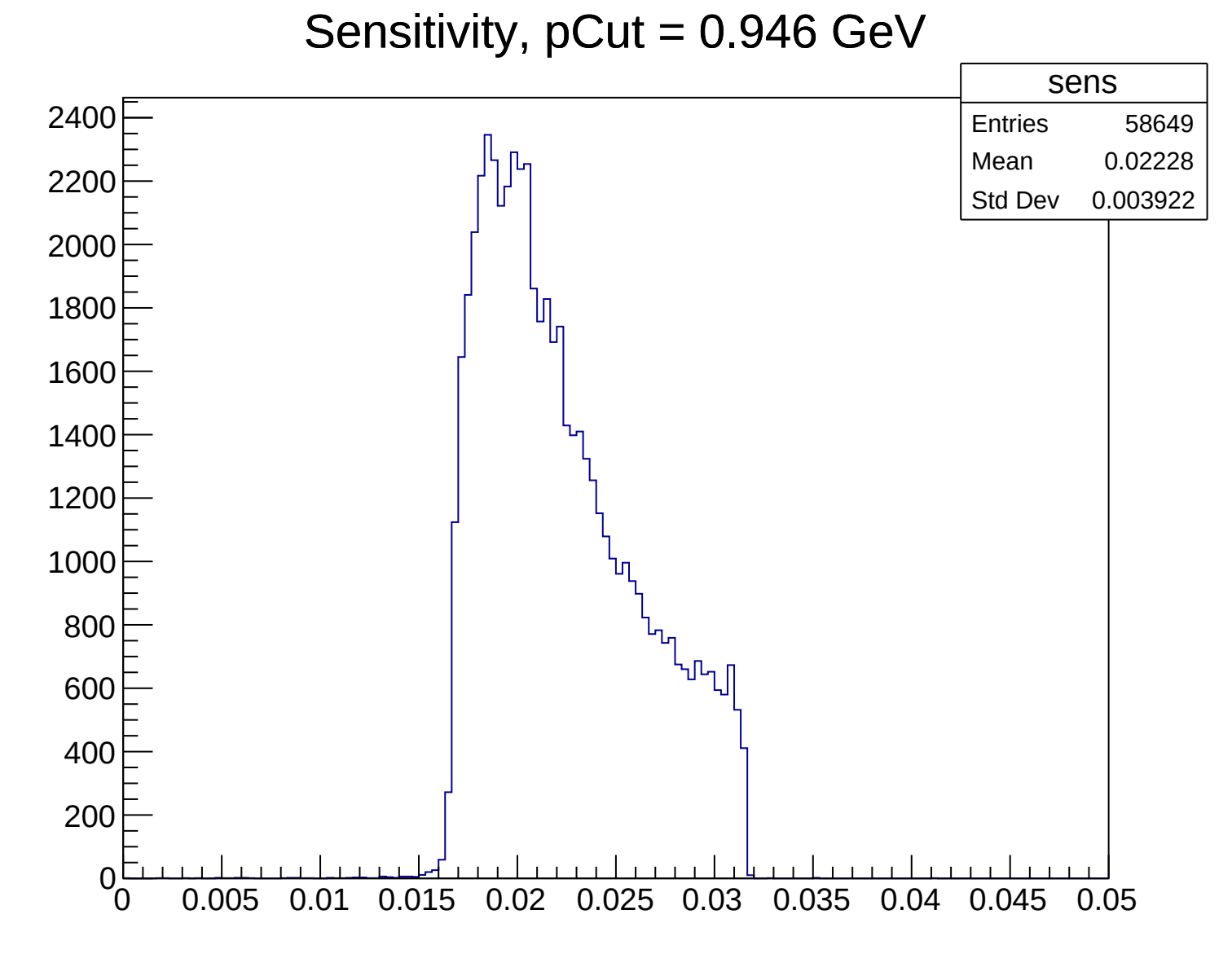

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9455 GeV
8000
7000
6000
5000
4000
3000
2000
1000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

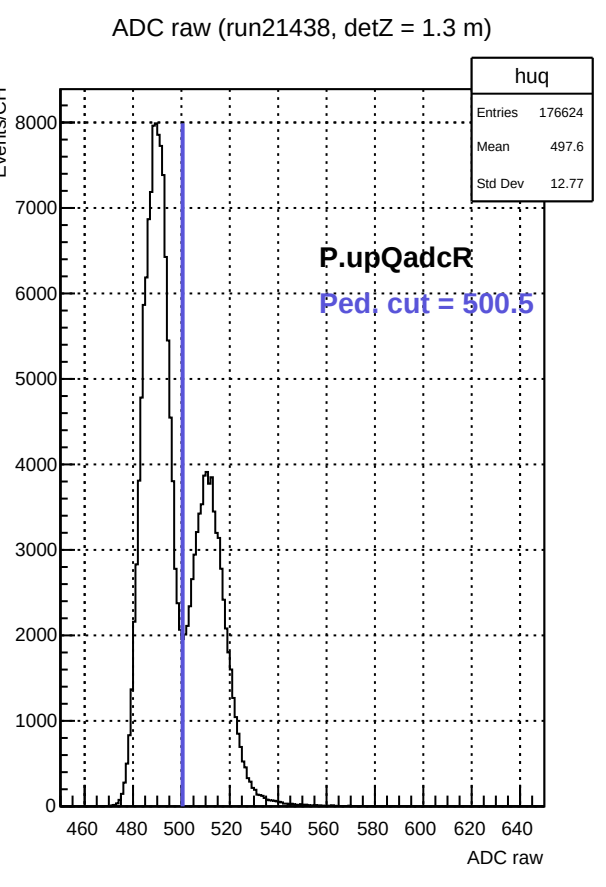

θlab (deg), pCut = 0.946 GeV
Theta
Entries 58649
Mean 4.787
Std Dev 0.4577
2500
2000
1500
1000
500
0
2
3
4
5
6
7
8
θlab (deg)

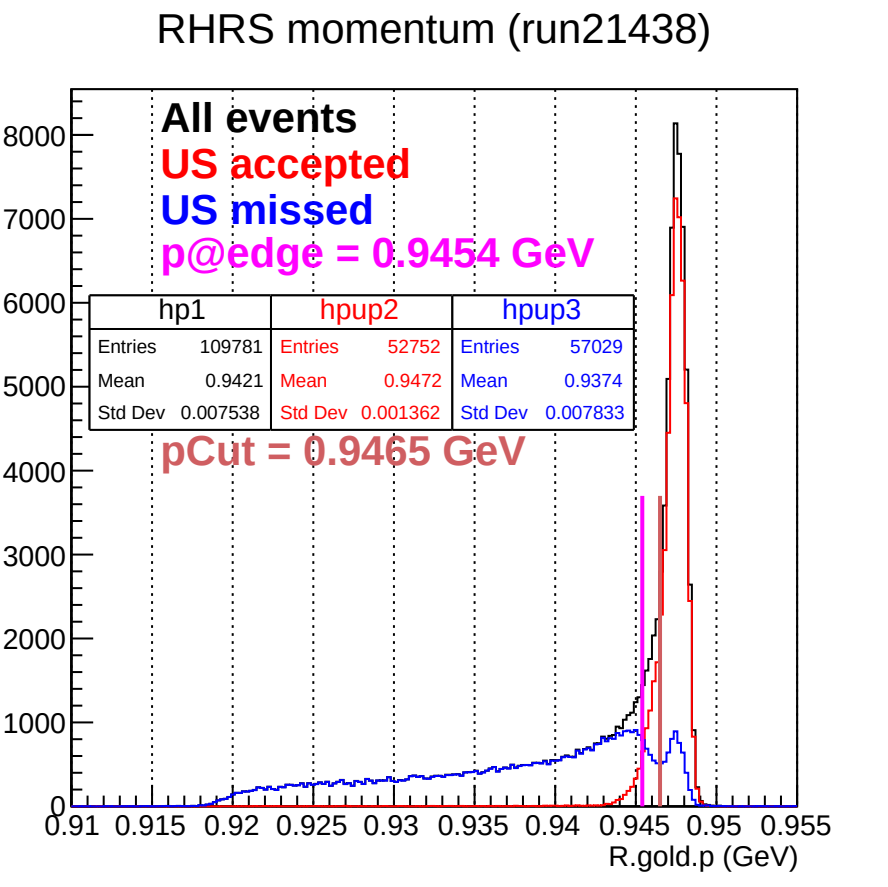

Asymmetry (ppm), pCut = 0.946 GeV
Asym
Entries 58649
Mean 0.5716
Std Dev 0.07849
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

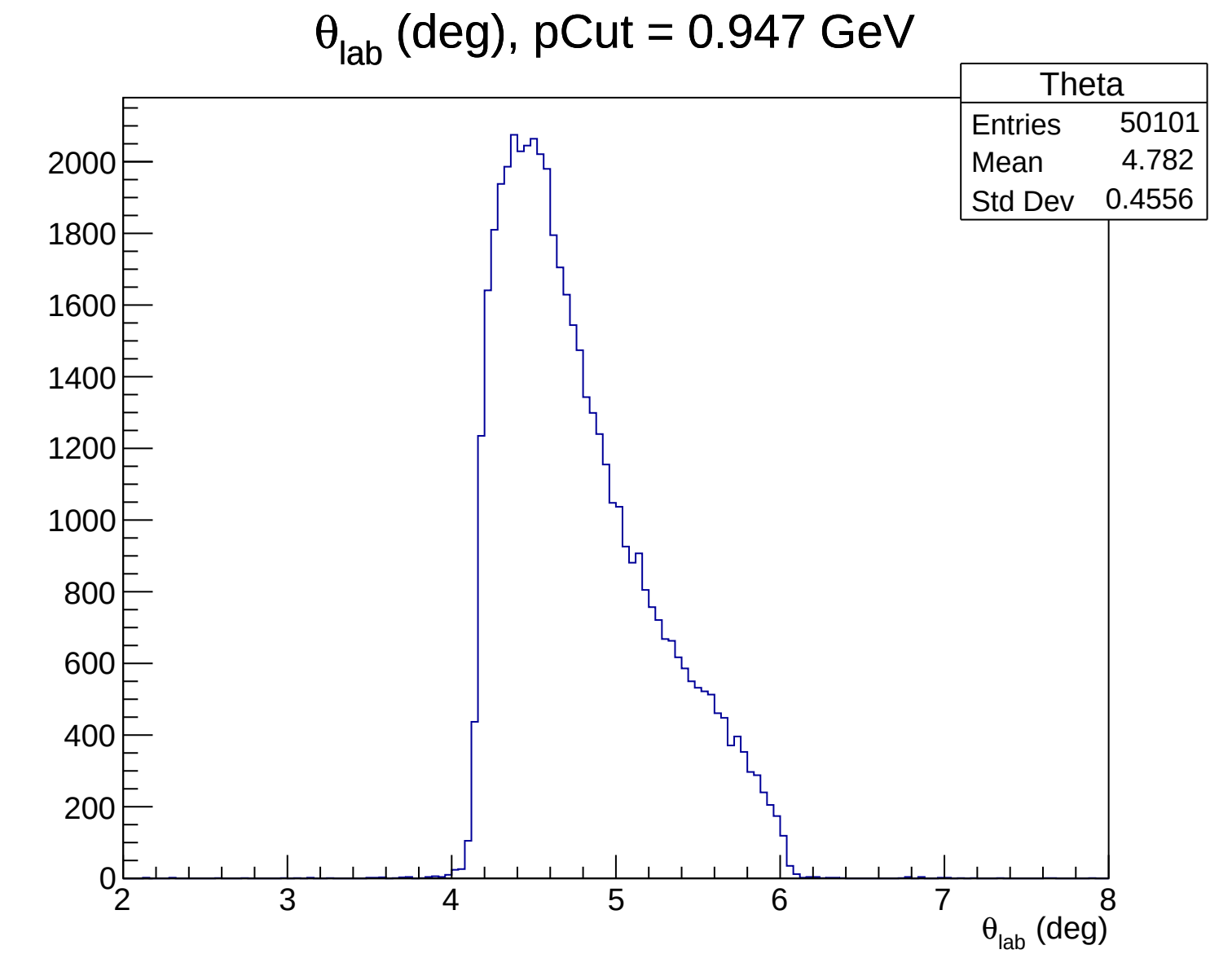

Stretched Asym. (ppm), pCut = 0.946 GeV
SAsym
Entries 58649
Mean 0.5586
Std Dev 0.07468
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

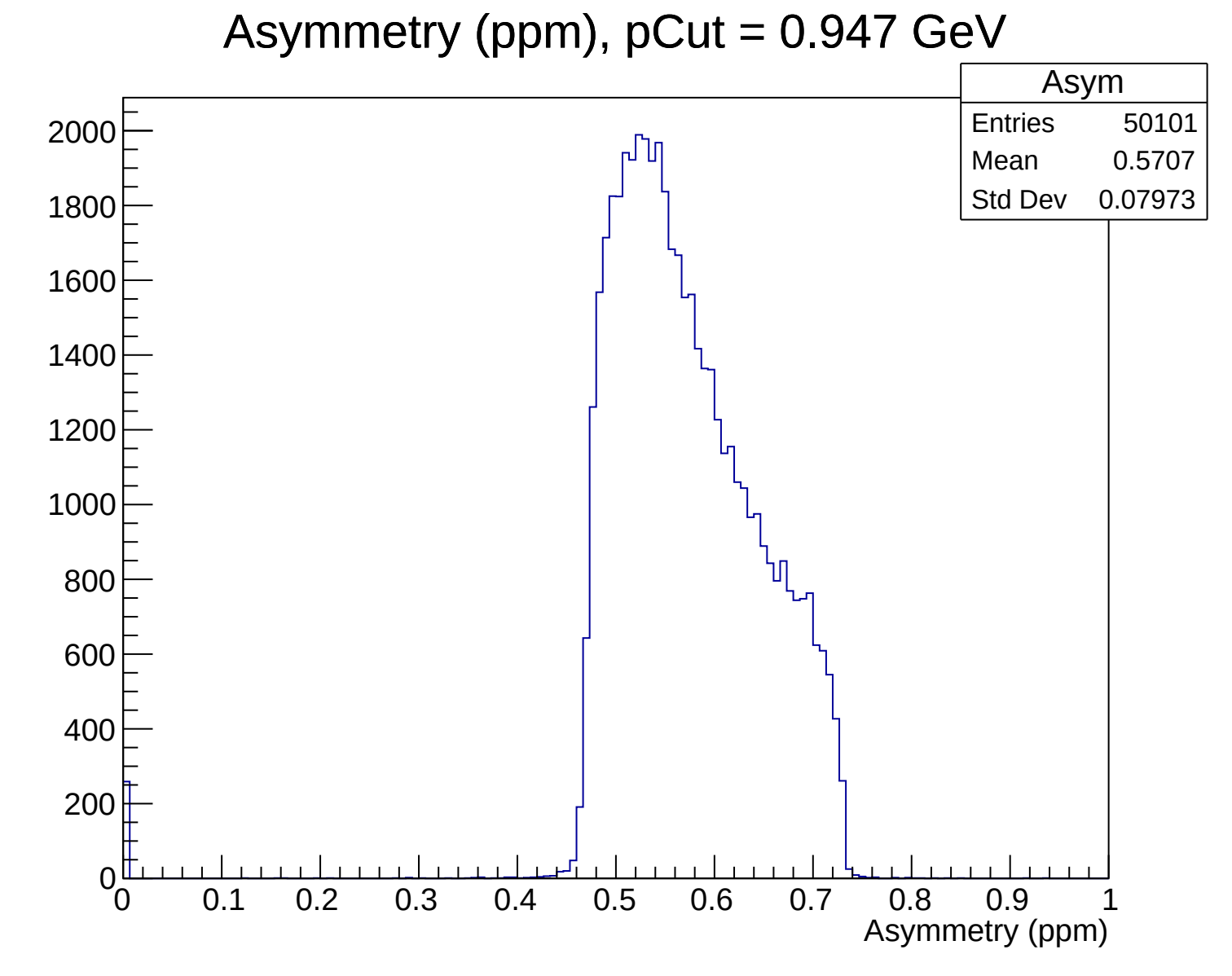

Q^2 (GeV/c)^2, pCut = 0.946 GeV
Q2
Entries 58649
Mean 0.006332
Std Dev 0.001242
2500
2000
1500
1000
500
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

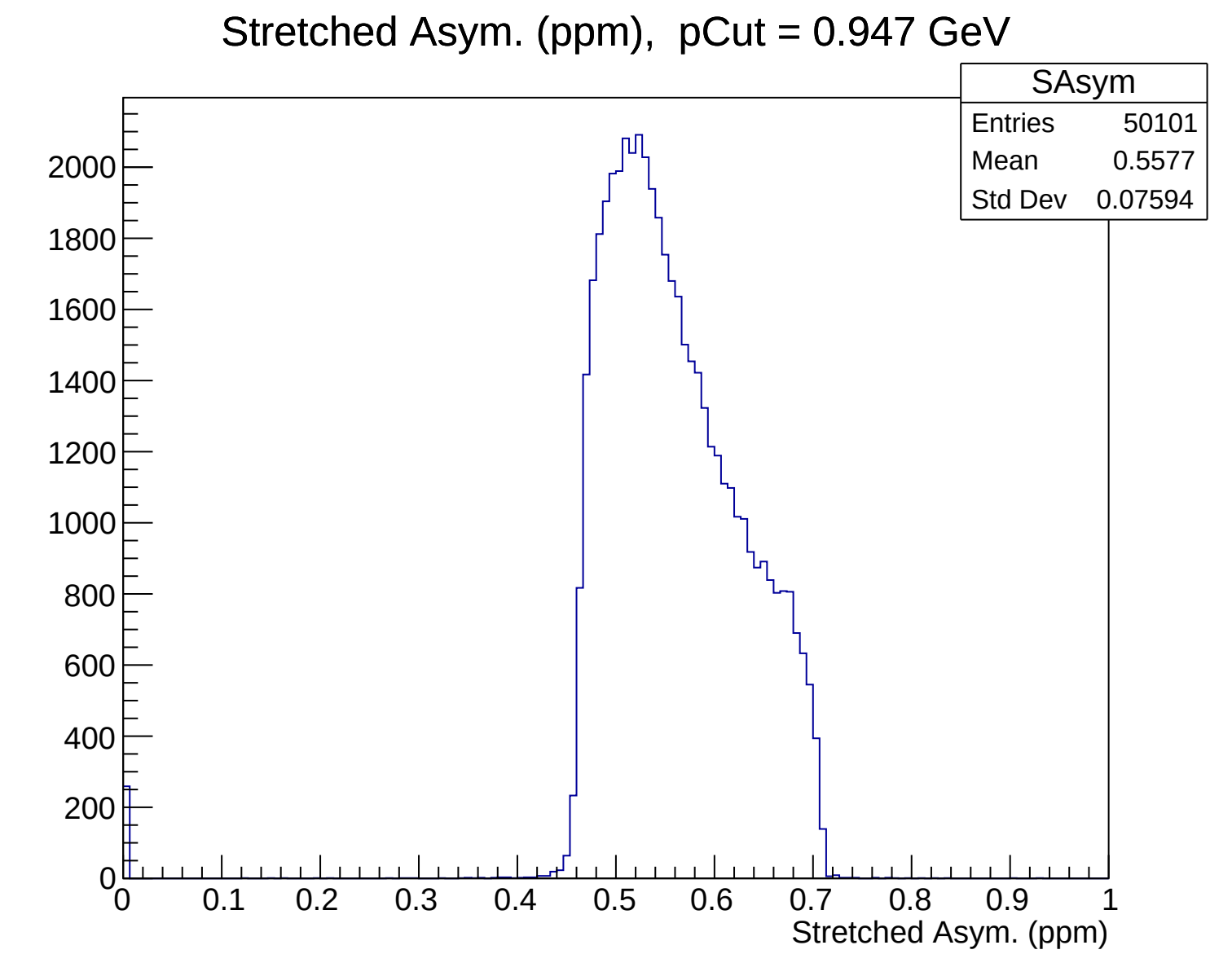

Sensitivity, pCut = 0.946 GeV
sens
Entries 58649
Mean 0.02228
Std Dev 0.003922
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

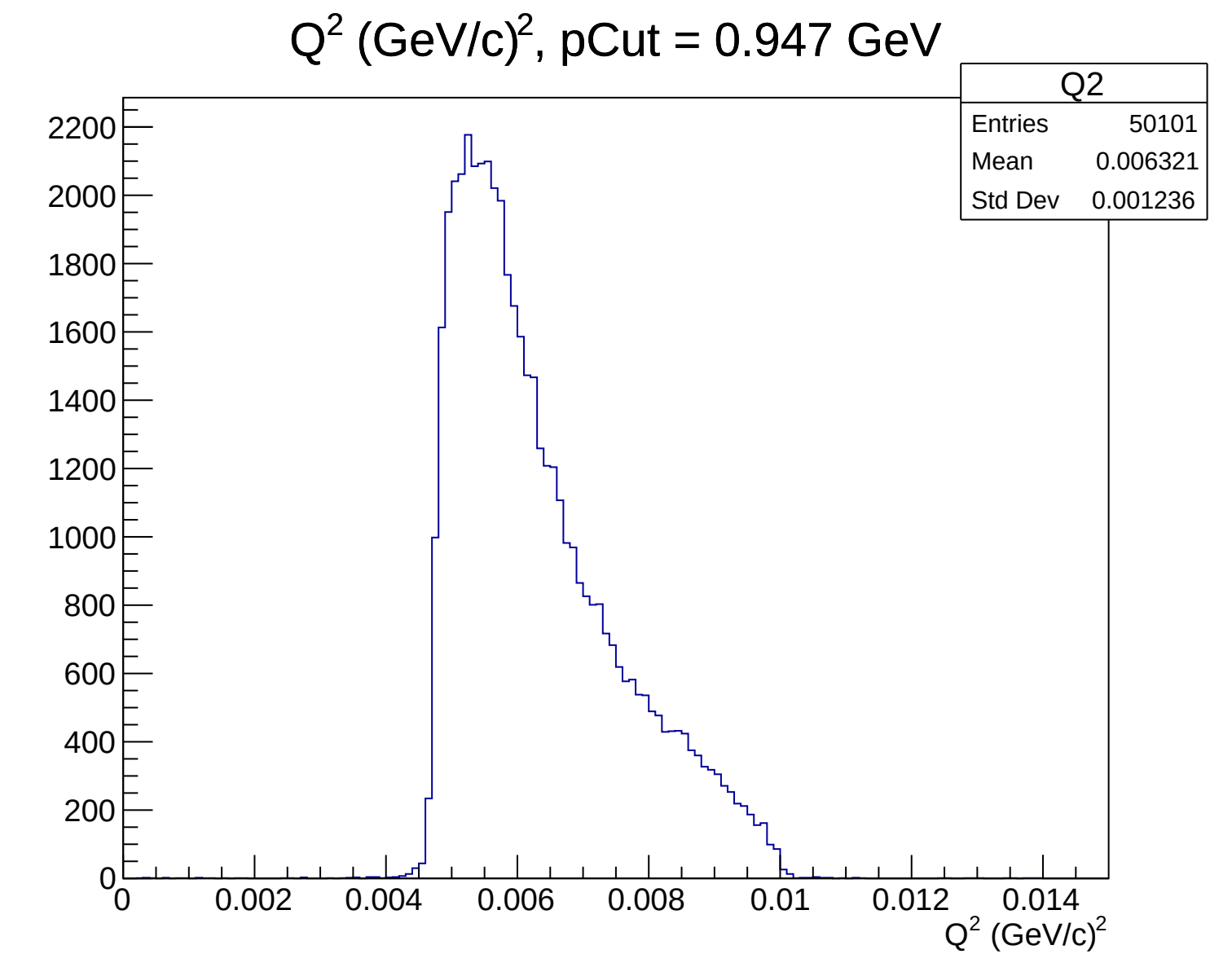

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
8000
7000
6000
5000
4000
3000
2000
1000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

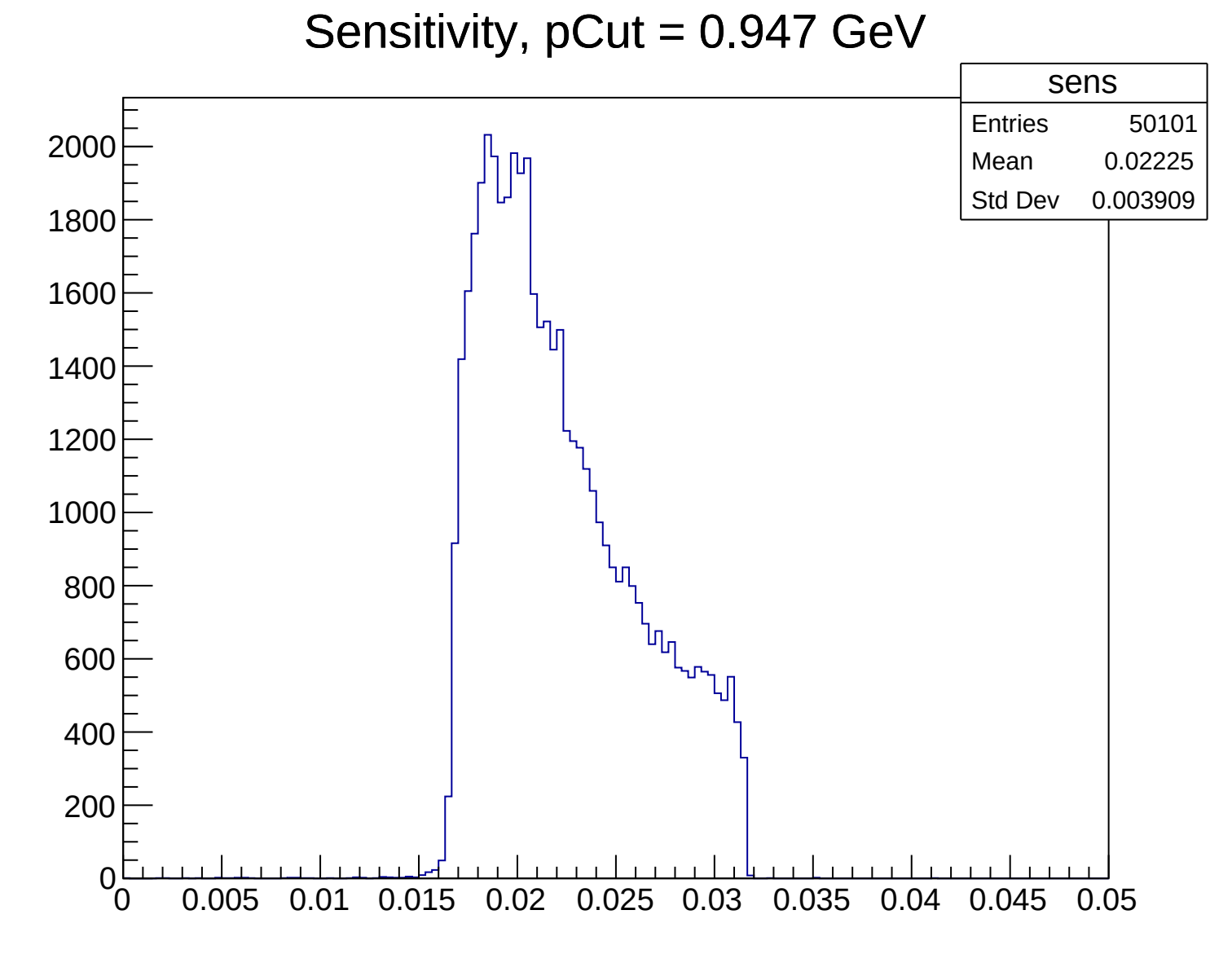

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9465 GeV
8000
7000
6000
5000
4000
3000
2000
1000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)

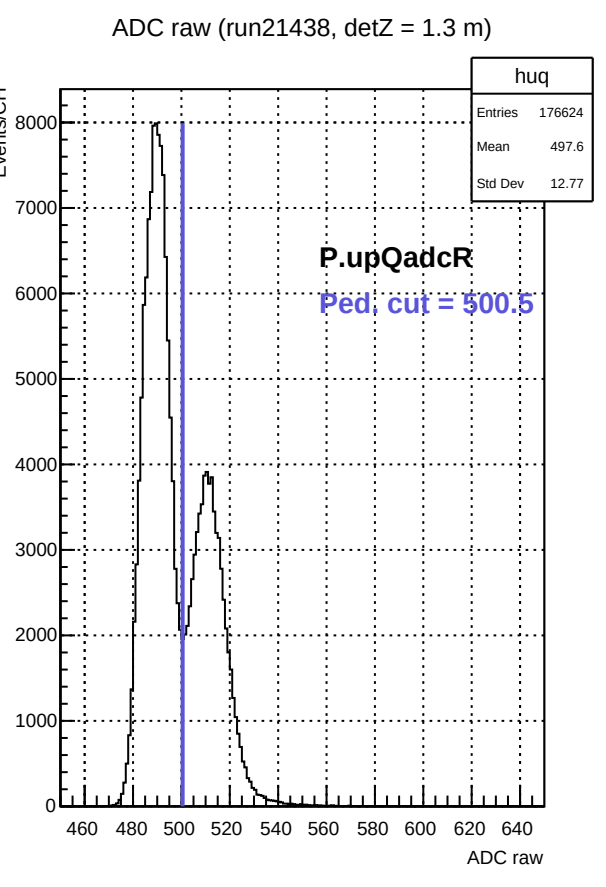

θlab (deg), pCut = 0.947 GeV
Theta
Entries 50101
Mean 4.782
Std Dev 0.4556
2000
1800
1600
1400
1200
1000
800
600
400
200
0
2
3
4
5
6
7
8
θlab (deg)

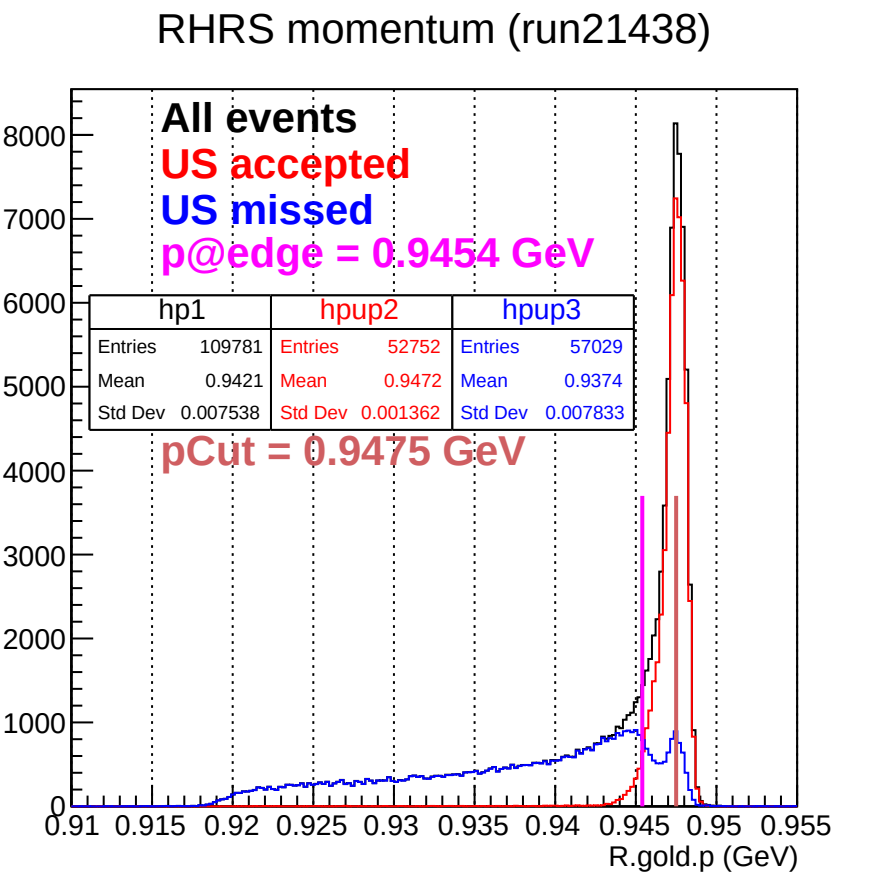

Asymmetry (ppm), pCut = 0.947 GeV
Asym
Entries 50101
Mean 0.5707
Std Dev 0.07973
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

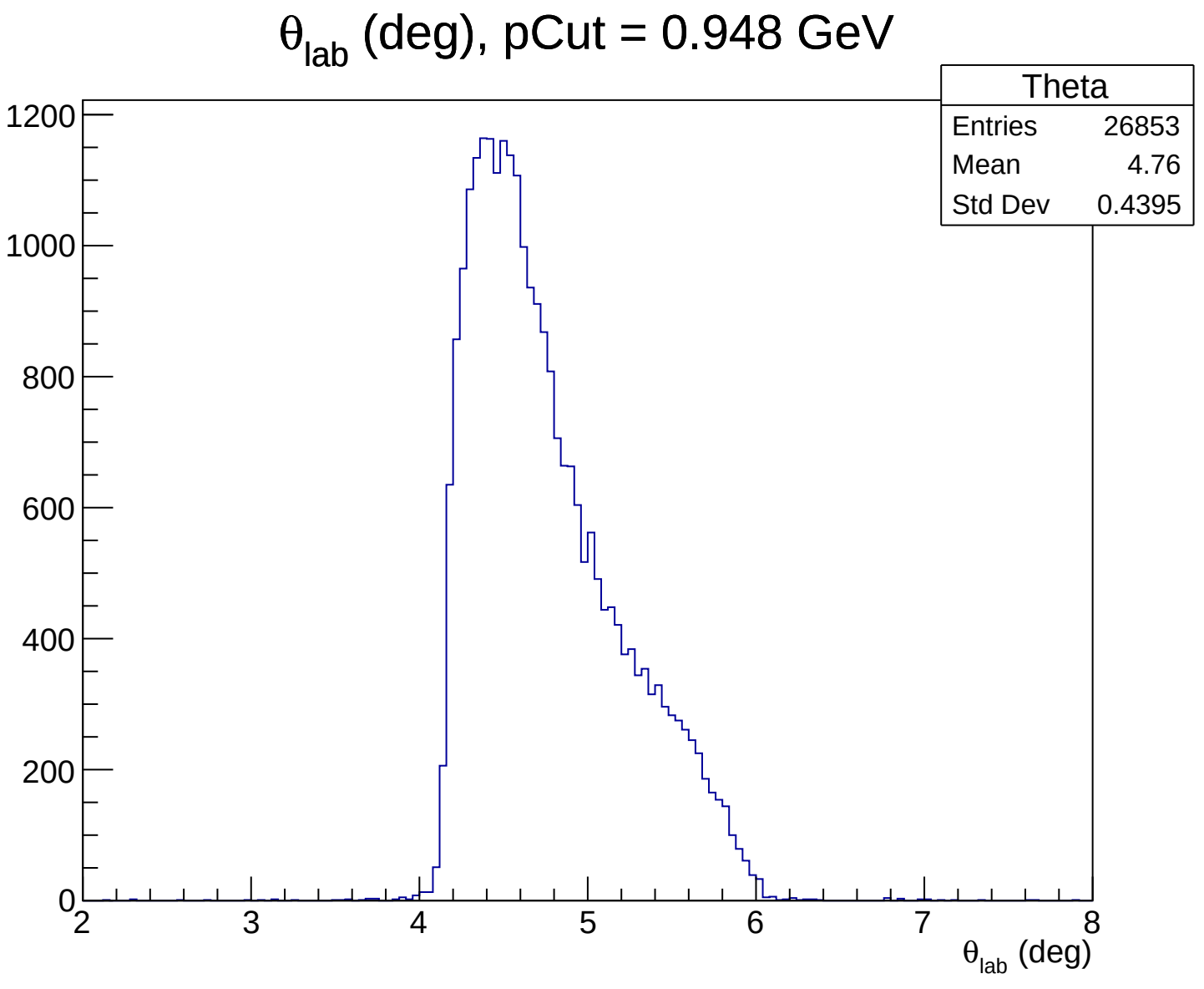

Stretched Asym. (ppm), pCut = 0.947 GeV
SAsym
Entries 50101
Mean 0.5577
Std Dev 0.07594
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

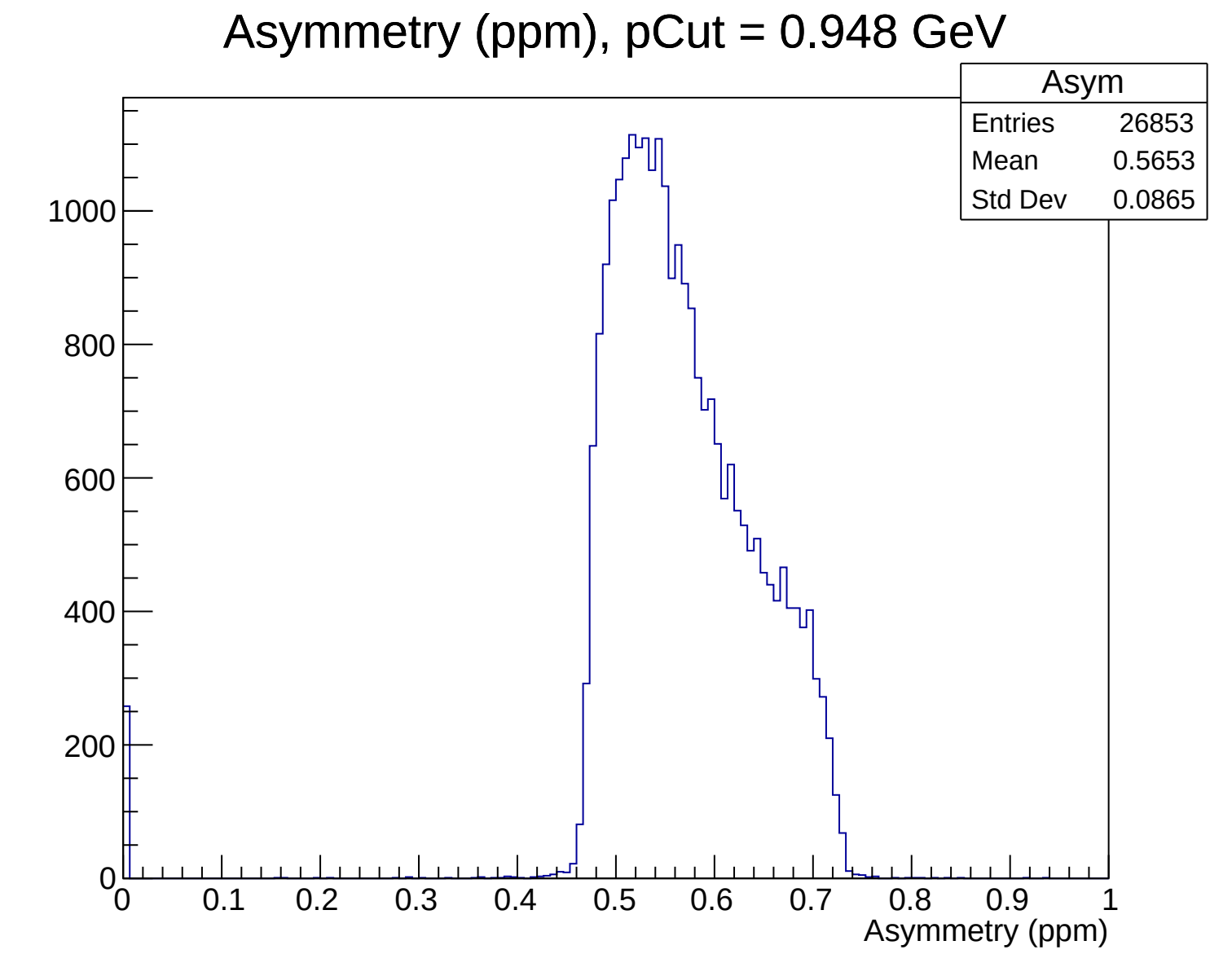

Q^2 (GeV/c)^2, pCut = 0.947 GeV
Q2
Entries 50101
Mean 0.006321
Std Dev 0.001236
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

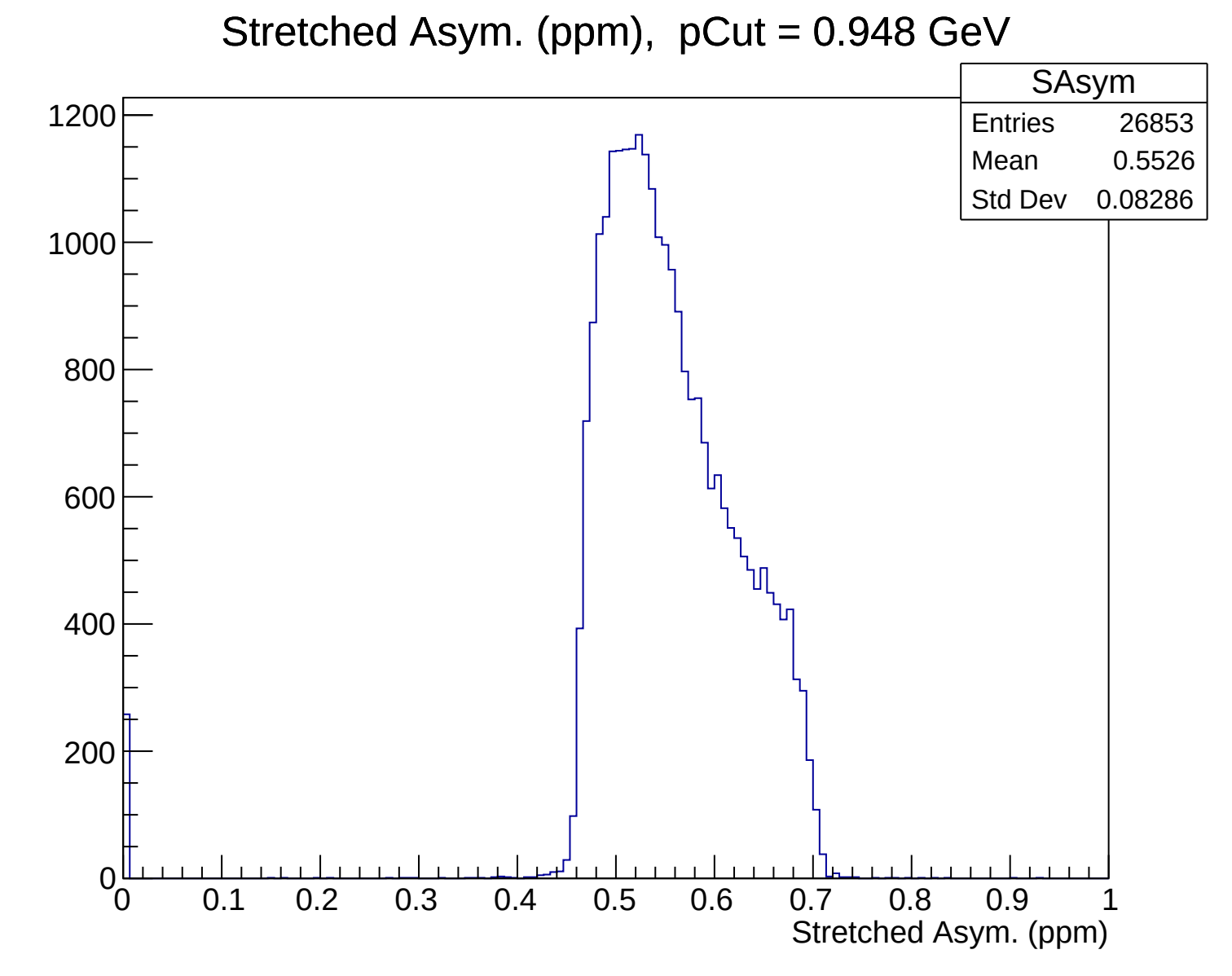

Sensitivity, pCut = 0.947 GeV
sens
Entries 50101
Mean 0.02225
Std Dev 0.003909
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

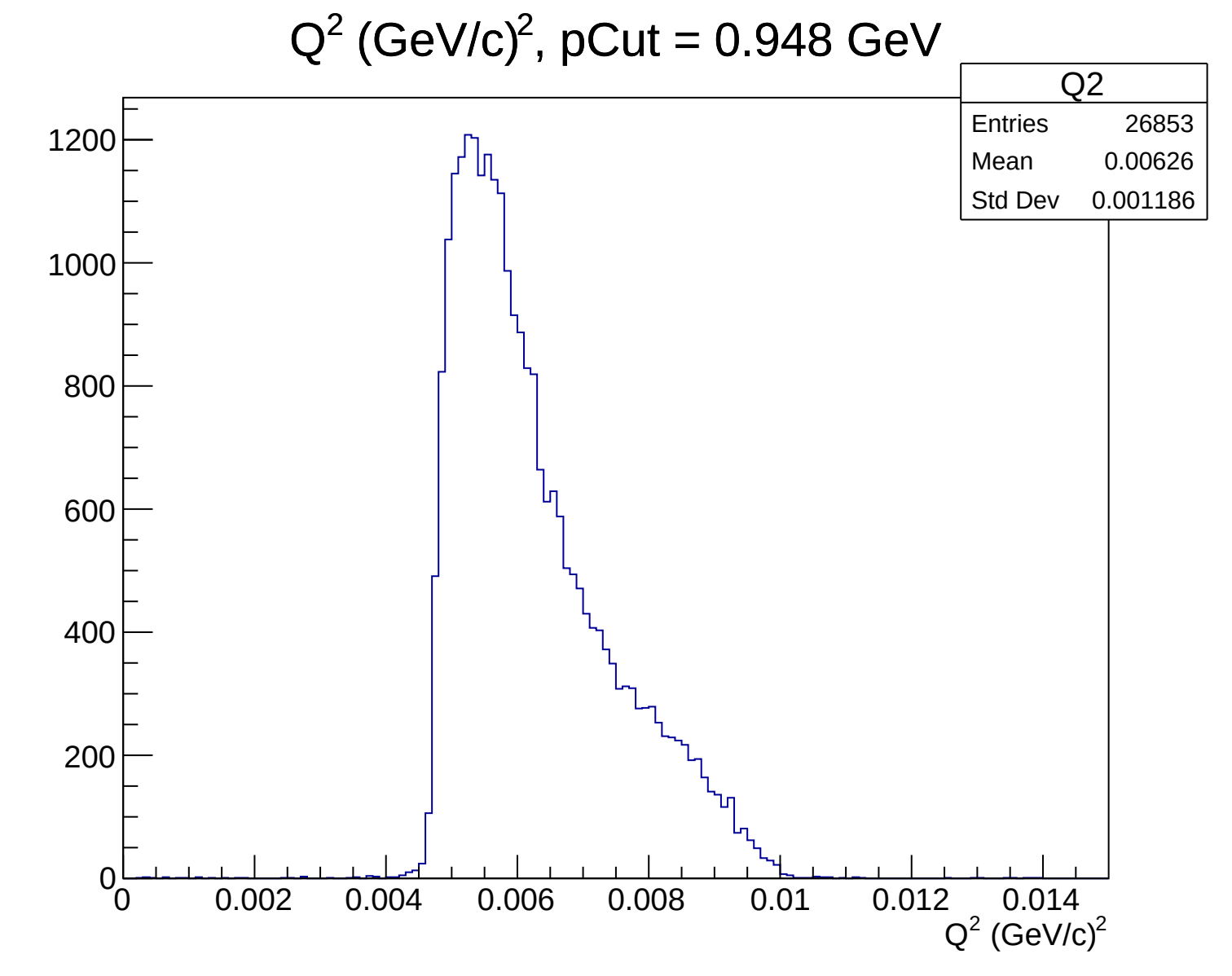

ADC raw (run21438, detZ = 1.3 m)
huq
Entries 176624
Mean 497.6
Std Dev 12.77
P.upQadcR
Ped. cut = 500.5
Events/CH
8000
7000
6000
5000
4000
3000
2000
1000
0
460 480 500 520 540 560 580 600 620 640
ADC raw

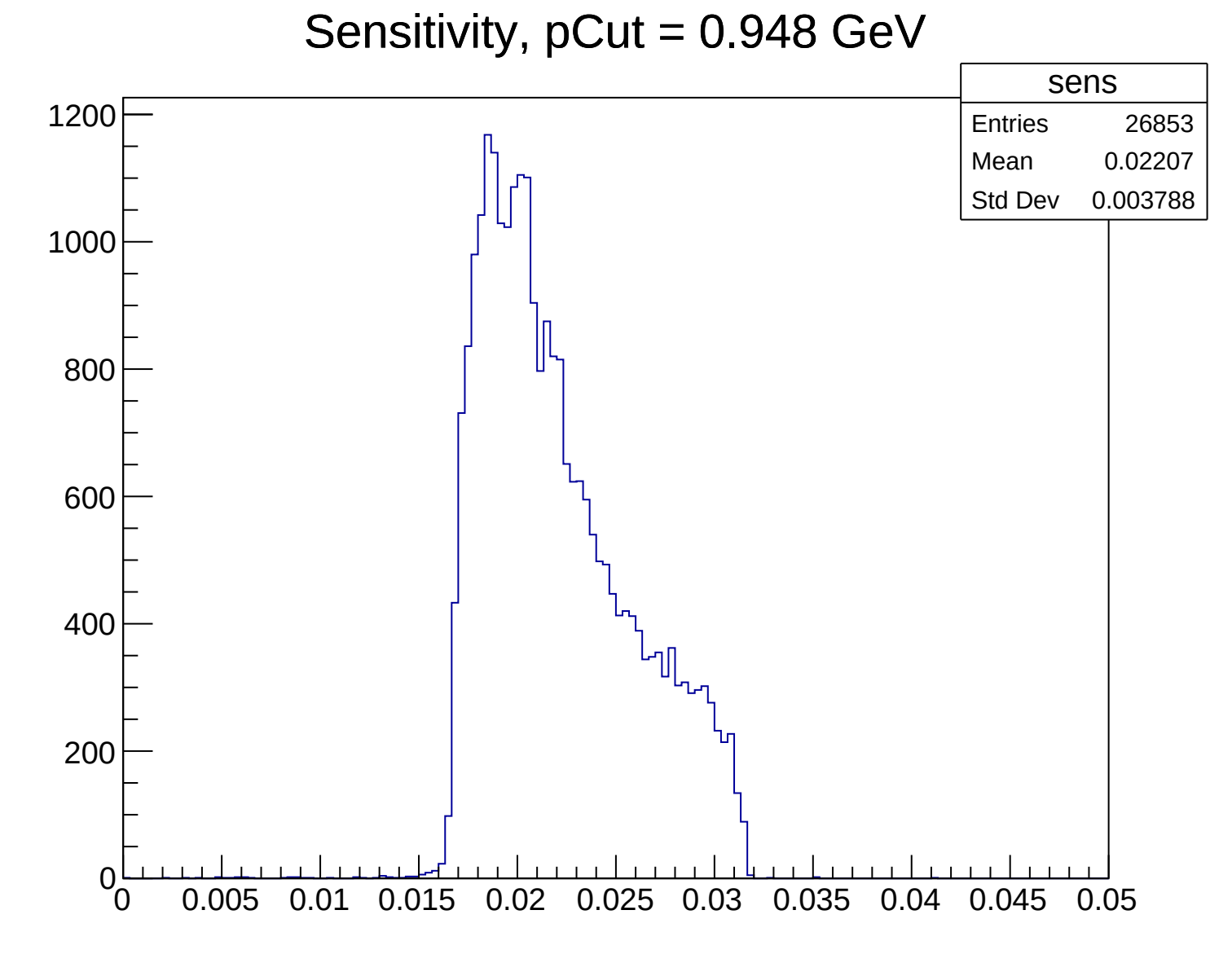

RHRS momentum (run21438)
All events
US accepted
US missed
p@edge = 0.9454 GeV
hp1
Entries 109781
Mean 0.9421
Std Dev 0.007538
hpup2
Entries 52752
Mean 0.9472
Std Dev 0.001362
hpup3
Entries 57029
Mean 0.9374
Std Dev 0.007833
pCut = 0.9475 GeV
8000
7000
6000
5000
4000
3000
2000
1000
0
0.91 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955
R.gold.p (GeV)


θlab (deg), pCut = 0.948 GeV
Theta
Entries 26853
Mean 4.76
Std Dev 0.4395
1200
1000
800
600
400
200
0
2
3
4
5
6
7
8
θlab (deg)

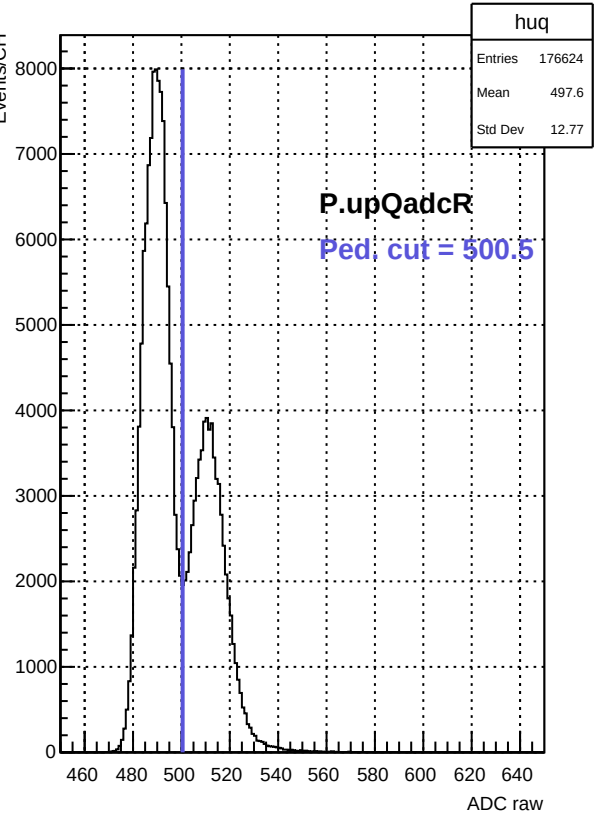

Asymmetry (ppm), pCut = 0.948 GeV
Asym
Entries 26853
Mean 0.5653
Std Dev 0.0865
1000
800
600
400
200
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), pCut = 0.948 GeV
SAsym
Entries 26853
Mean 0.5526
Std Dev 0.08286
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)

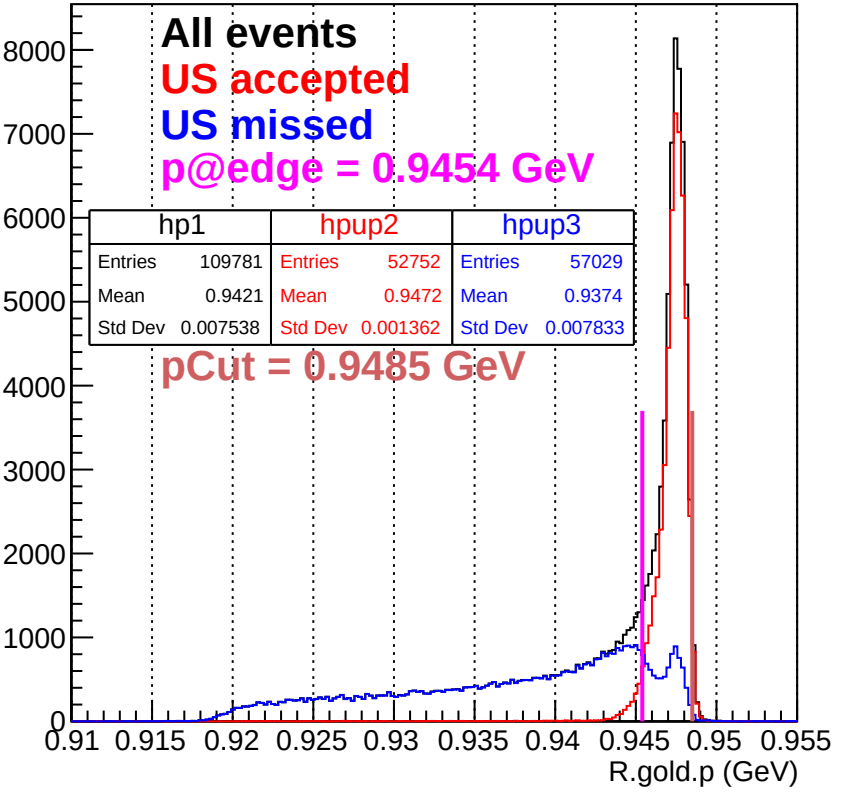

Q^2 (GeV/c)^2, pCut = 0.948 GeV
Q2
Entries 26853
Mean 0.00626
Std Dev 0.001186
1200
1000
800
600
400
200
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

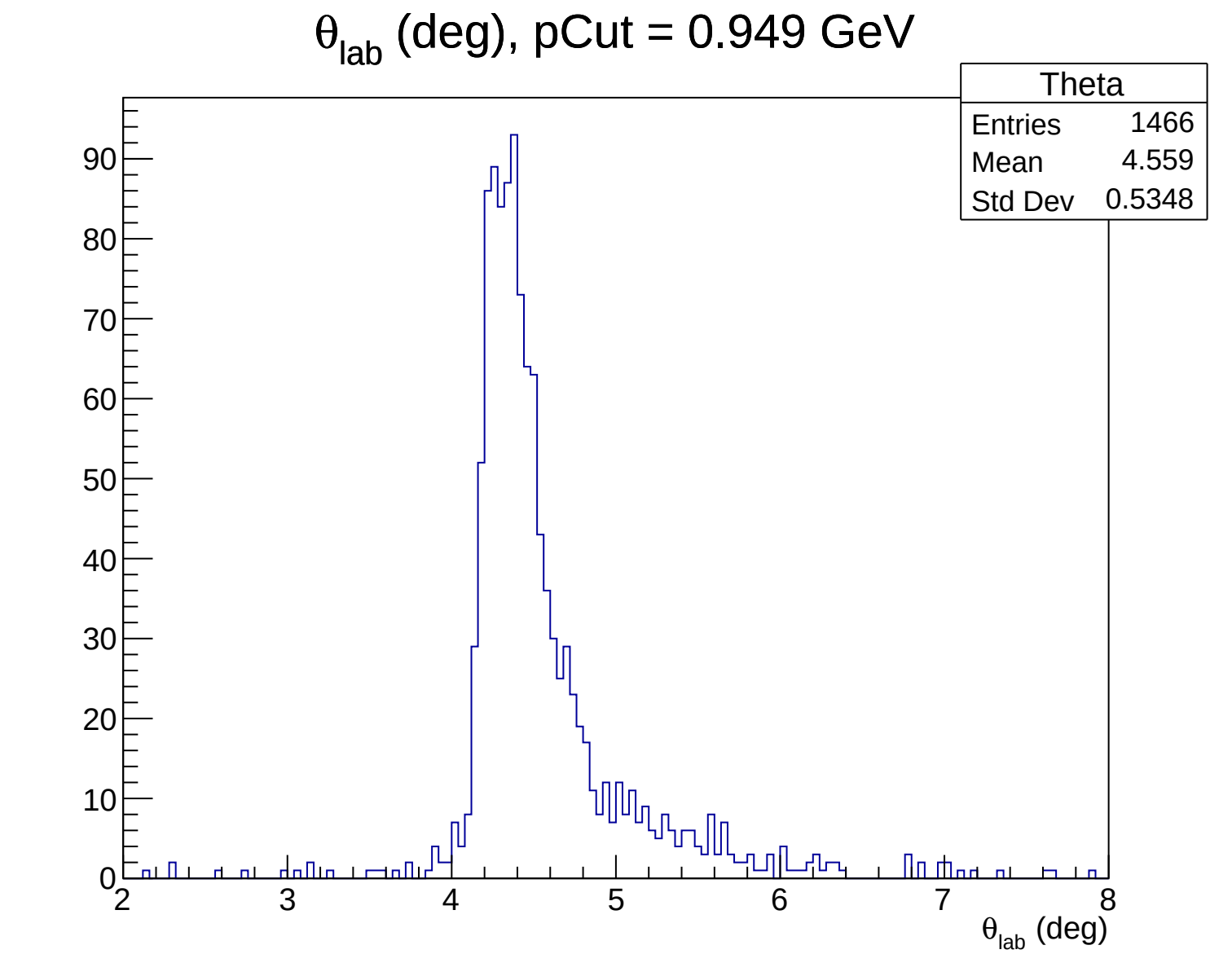

Sensitivity, pCut = 0.948 GeV
sens
Entries 26853
Mean 0.02207
Std Dev 0.003788
1200
1000
800
600
400
200
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

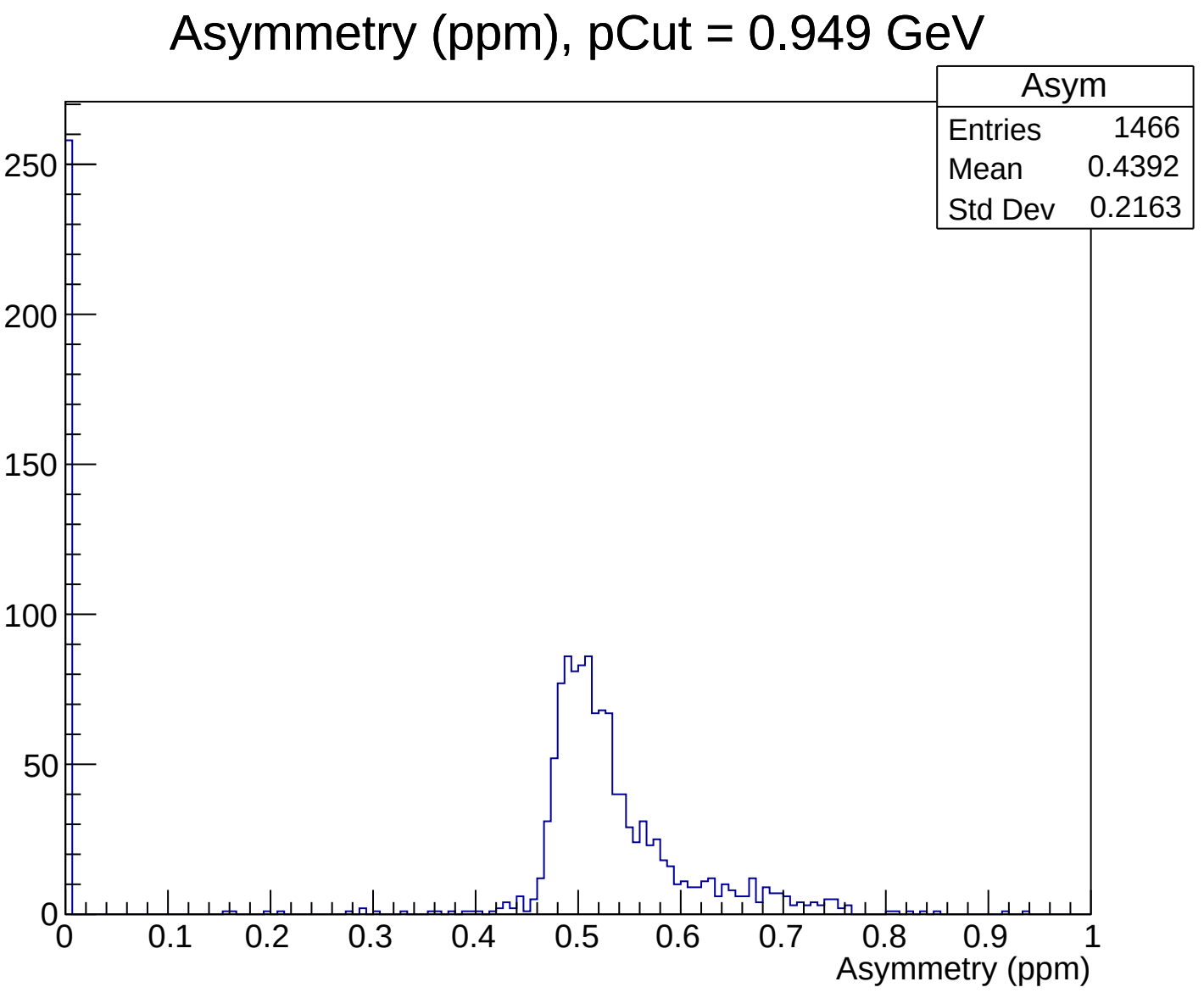
ADC raw (run21438, detZ = 1.3 m)

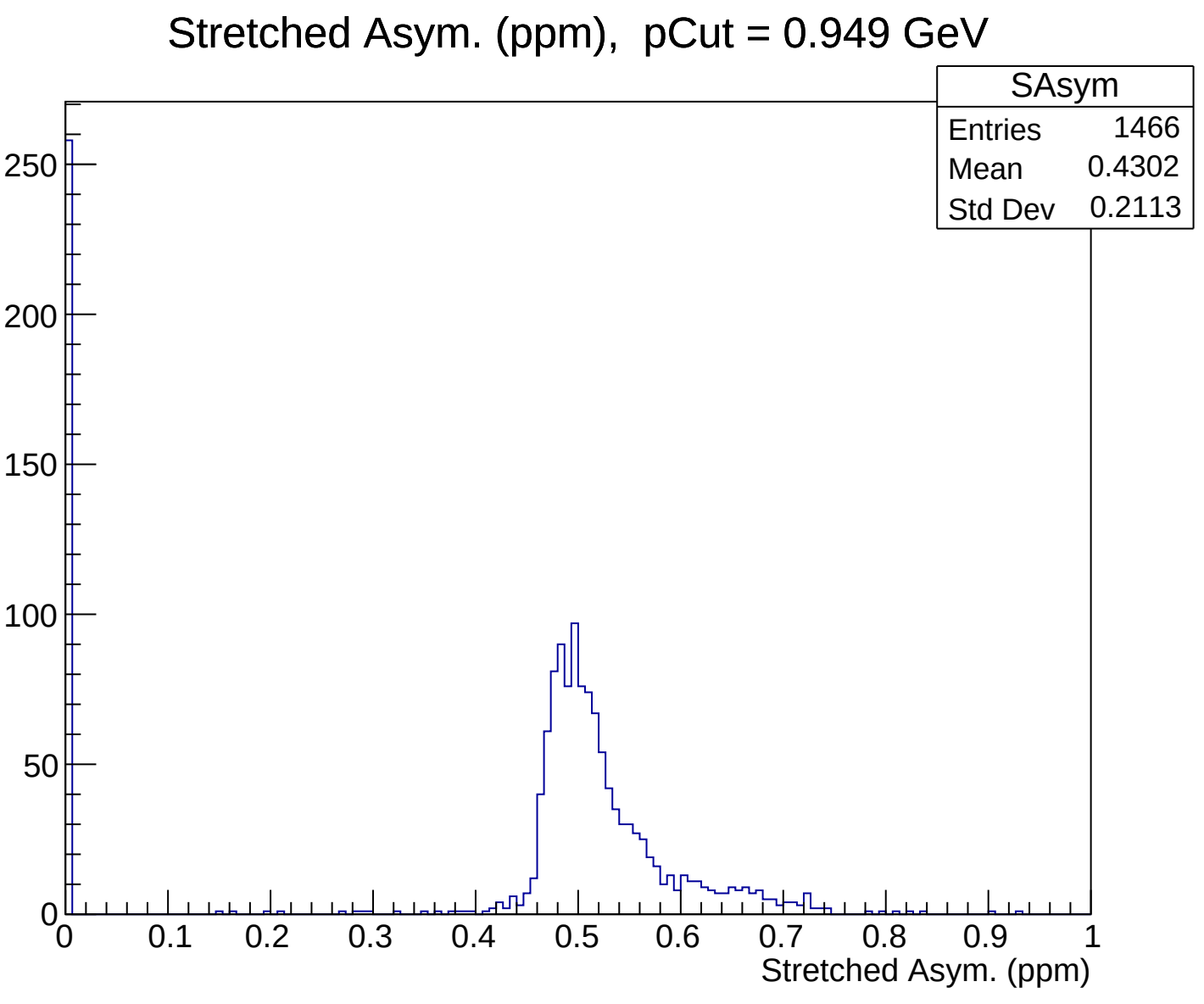


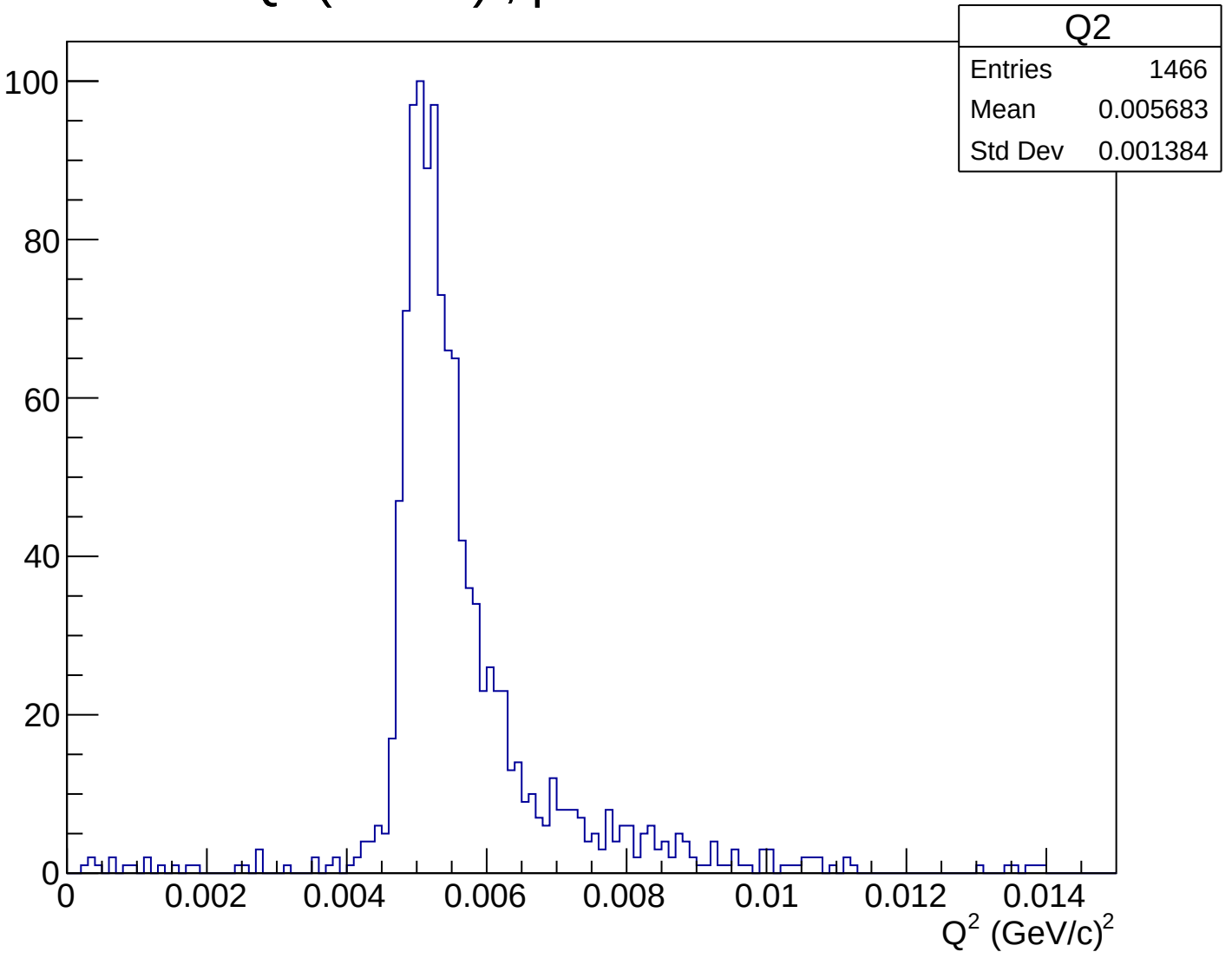
RHRS momentum (run21438)

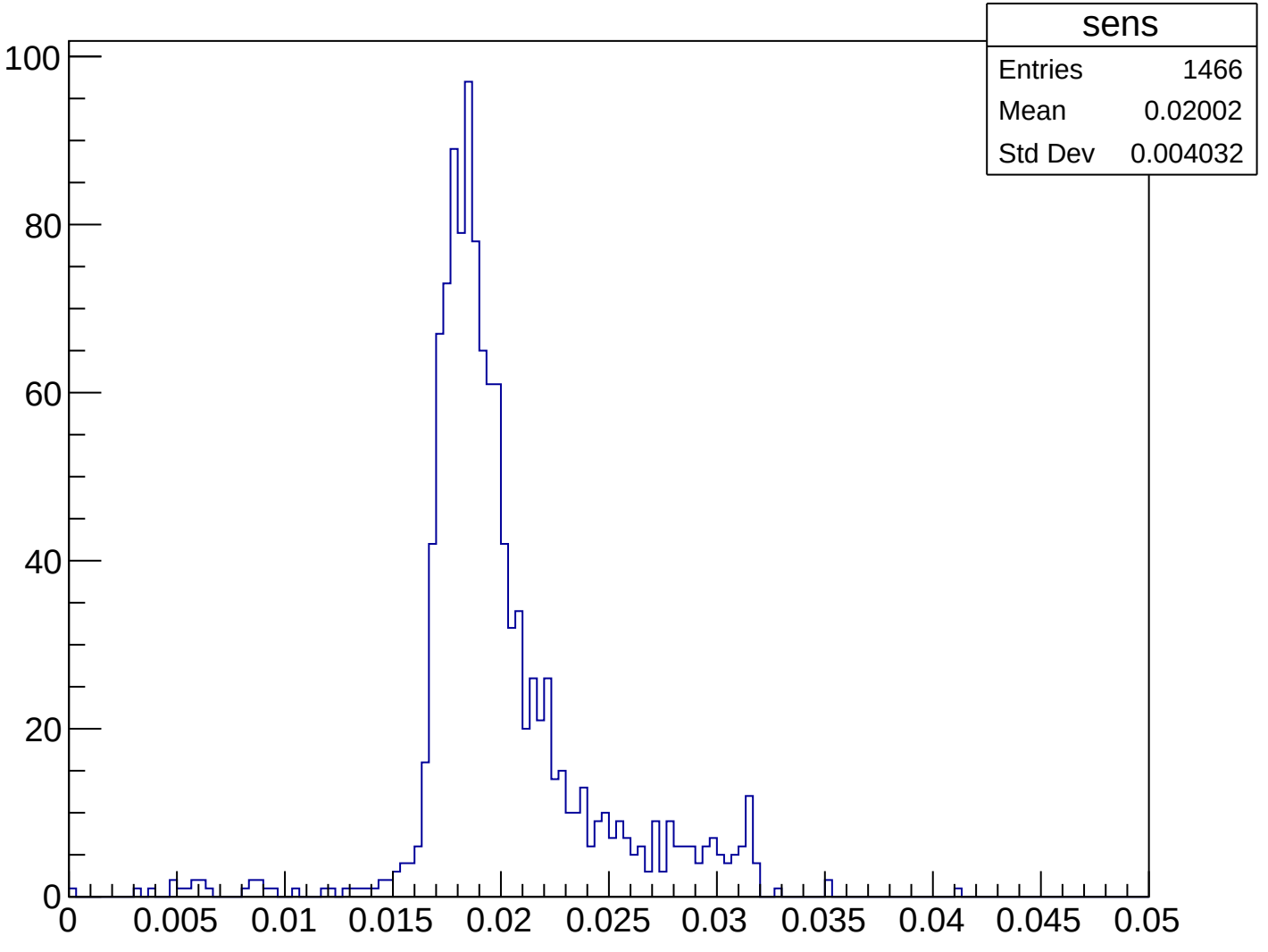



θlab (deg), pCut = 0.949 GeV
Theta
Entries 1466
Mean 4.559
Std Dev 0.5348
0
10
20
30
40
50
60
70
80
90
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), pCut = 0.949 GeV
Asym
Entries 1466
Mean 0.4392
Std Dev 0.2163
250
200
150
100
50
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 1466
Mean 0.4302
Std Dev 0.2113
250
200
150
100
50
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 1466
Mean 0.005683
Std Dev 0.001384
100
80
60
40
20
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2


Sensitivity, pCut = 0.949 GeV
sens
Entries 1466
Mean 0.02002
Std Dev 0.004032
100
80
60
40
20
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05