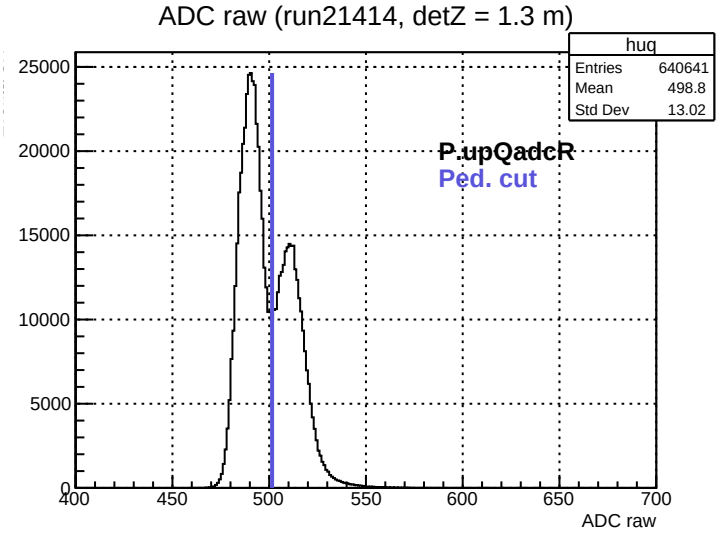
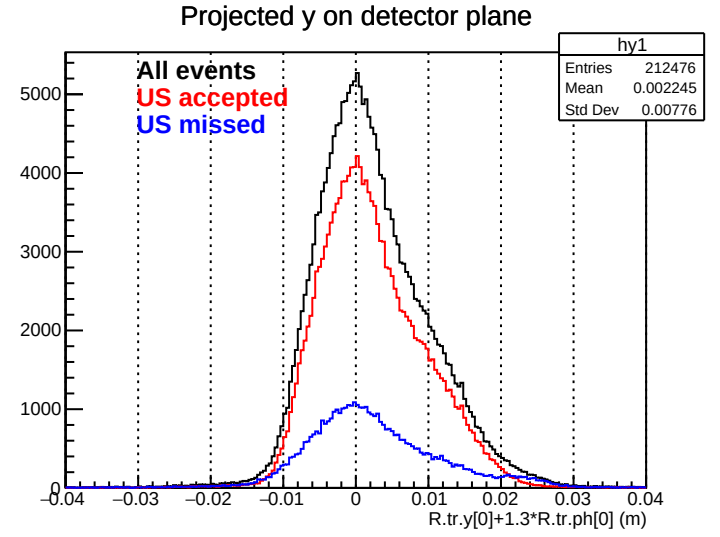
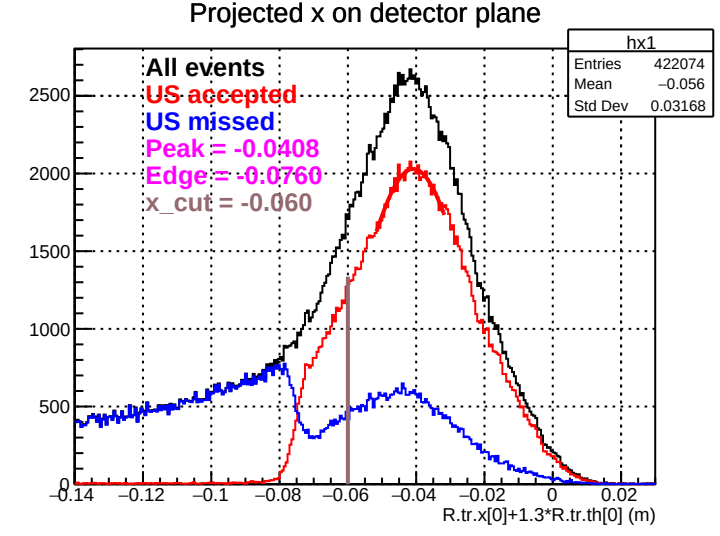
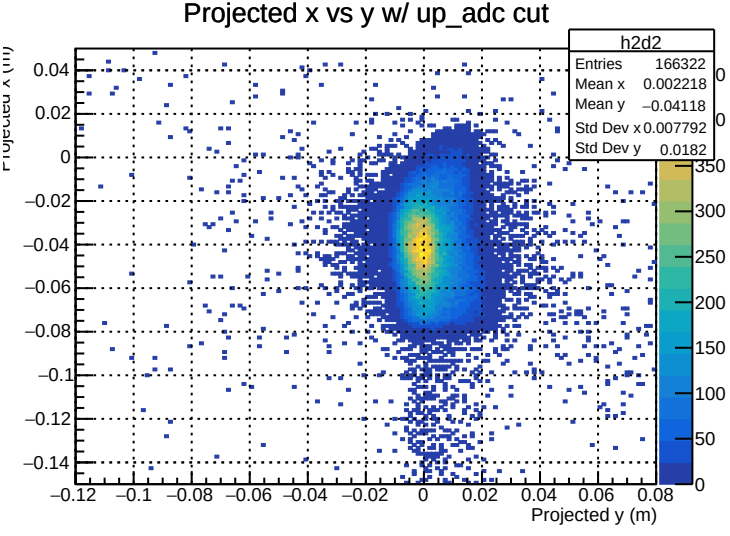
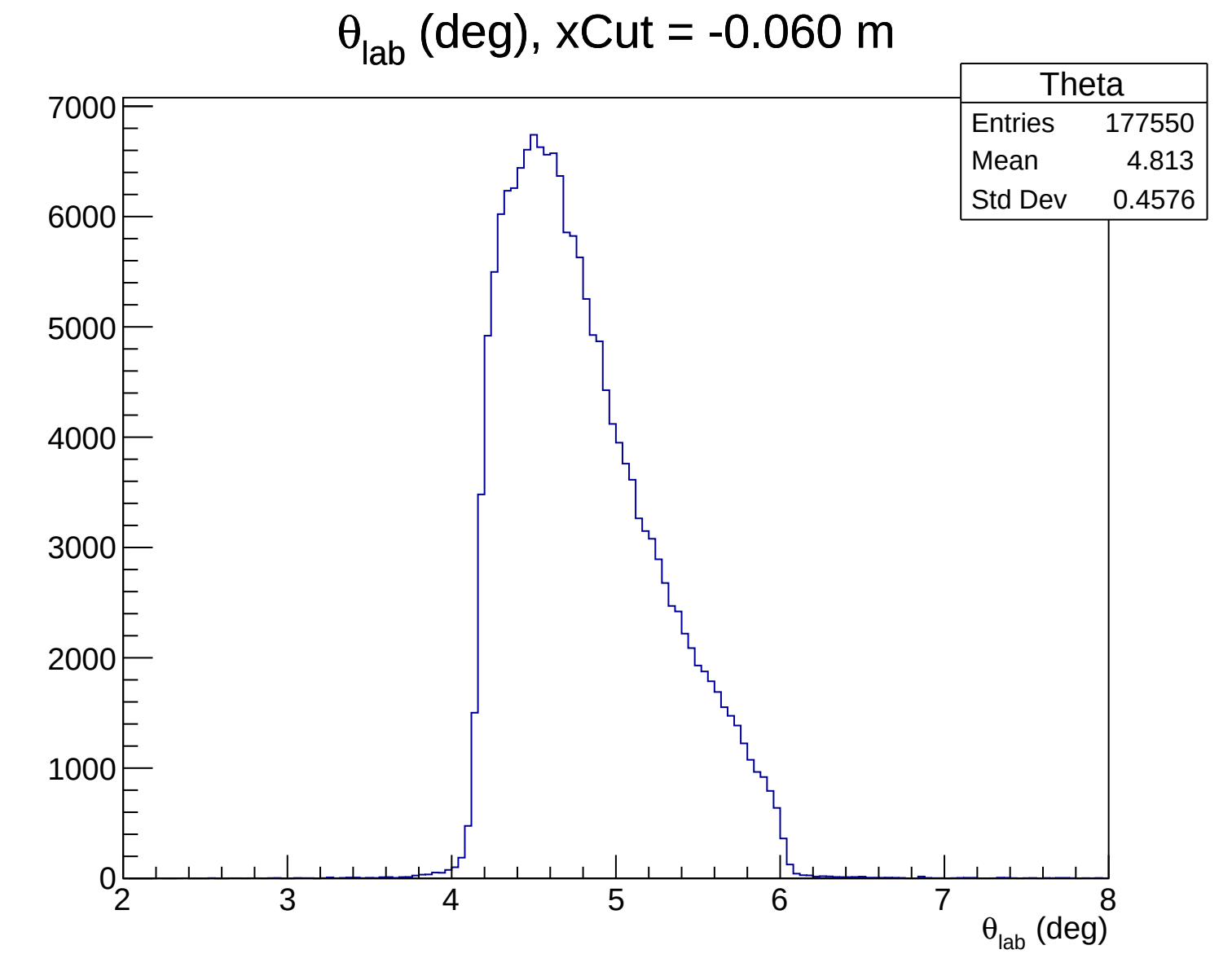
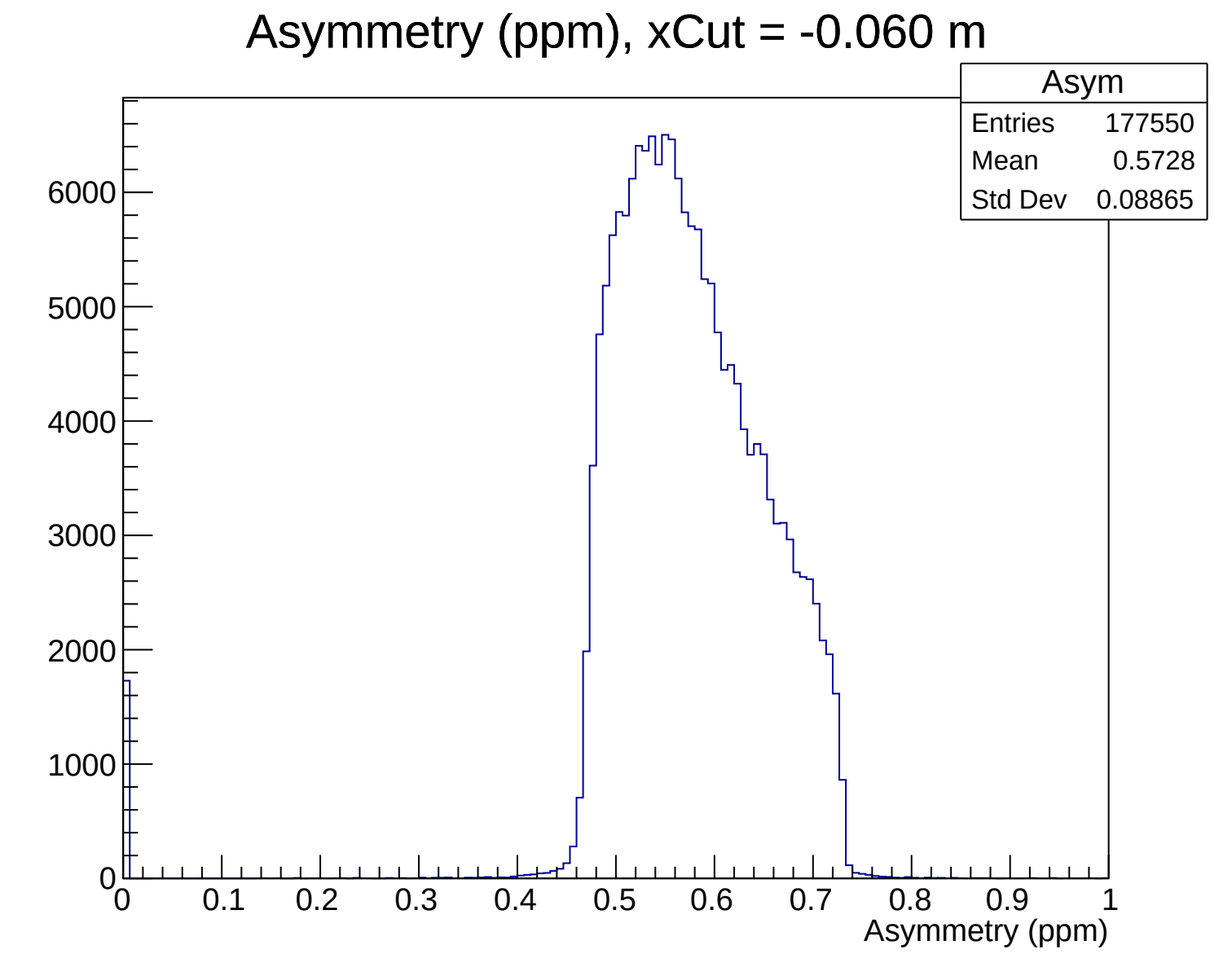

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

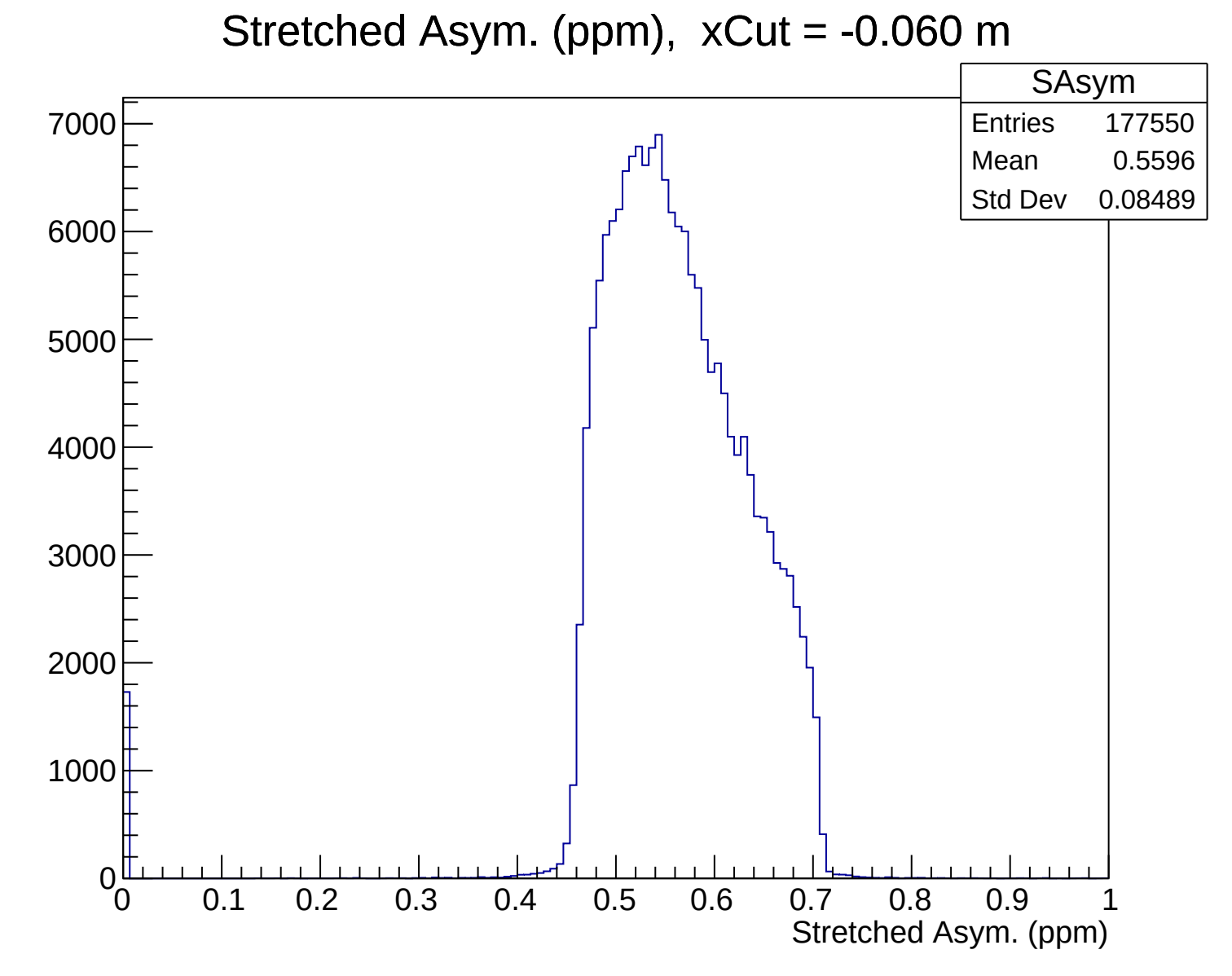

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

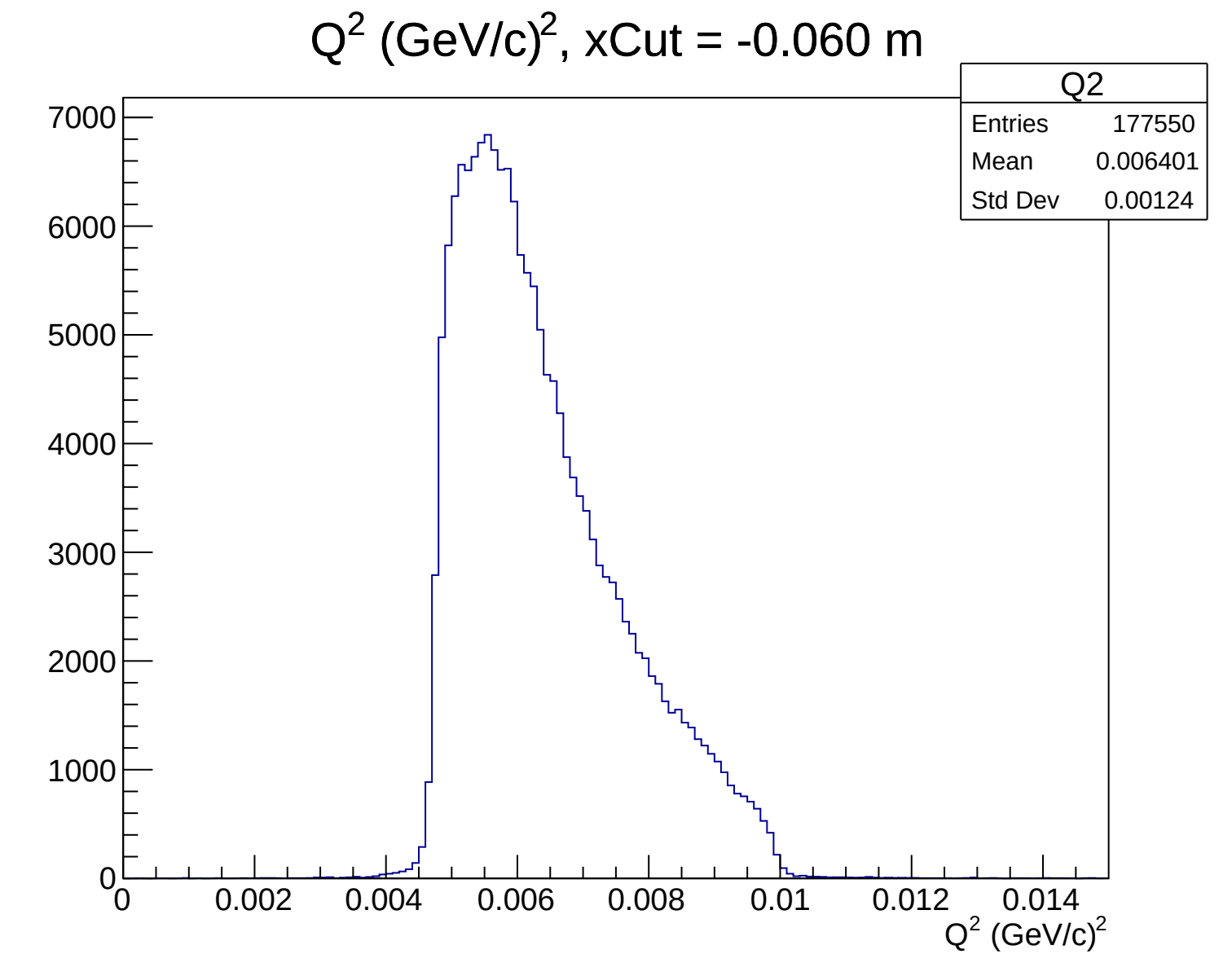

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.060
R.tr.x[0]+1.3*R.tr.th[0] (m)

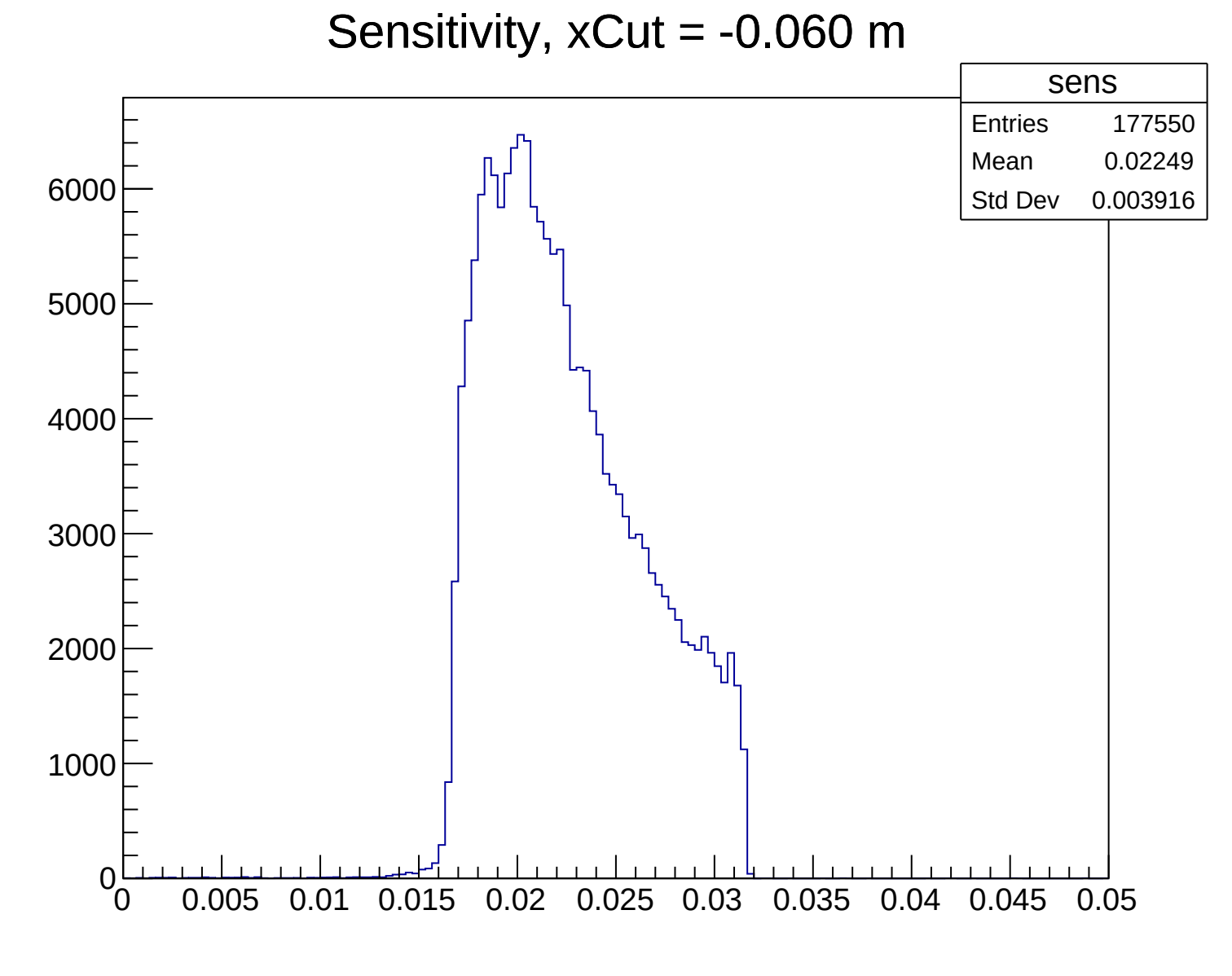

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

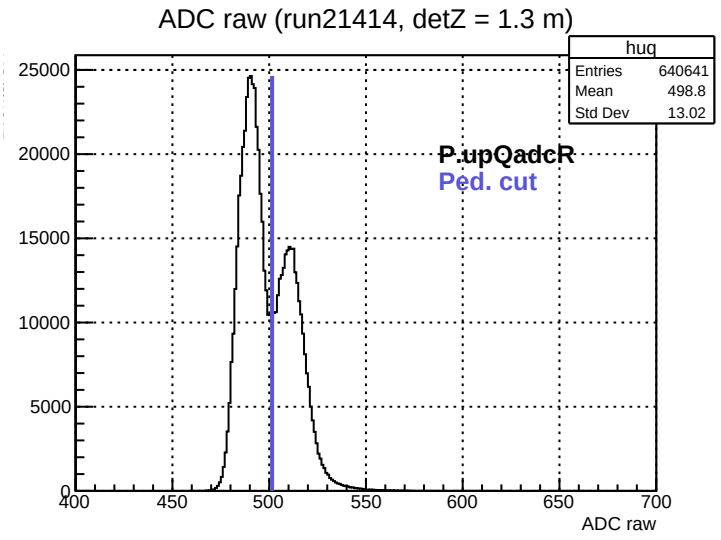

θlab (deg), xCut = -0.060 m
Theta
Entries 177550
Mean 4.813
Std Dev 0.4576
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

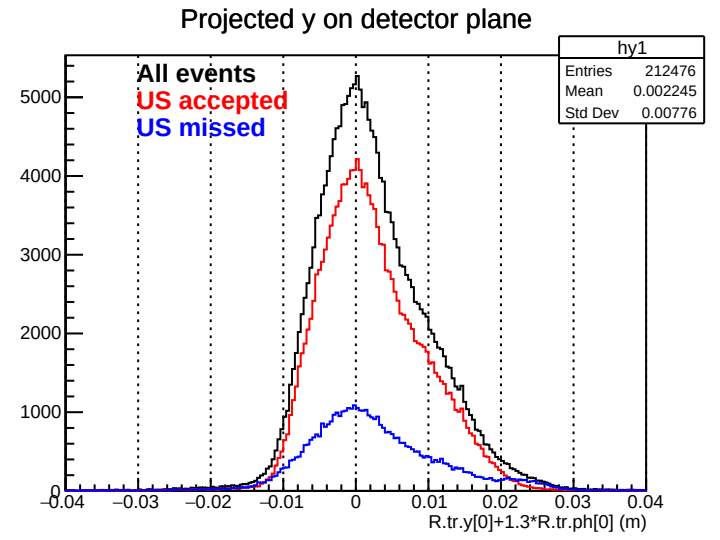

Asymmetry (ppm), xCut = -0.060 m
Asym
Entries 177550
Mean 0.5728
Std Dev 0.08865
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

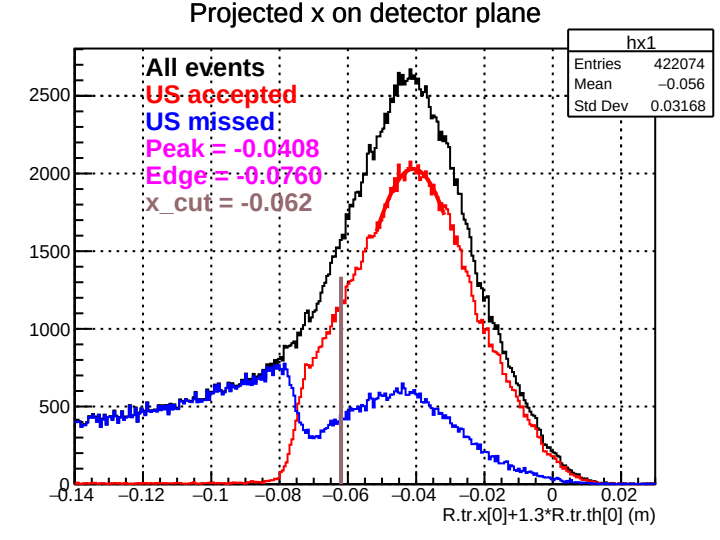

Stretched Asym. (ppm), xCut = -0.060 m
SAsym
Entries 177550
Mean 0.5596
Std Dev 0.08489
7000
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

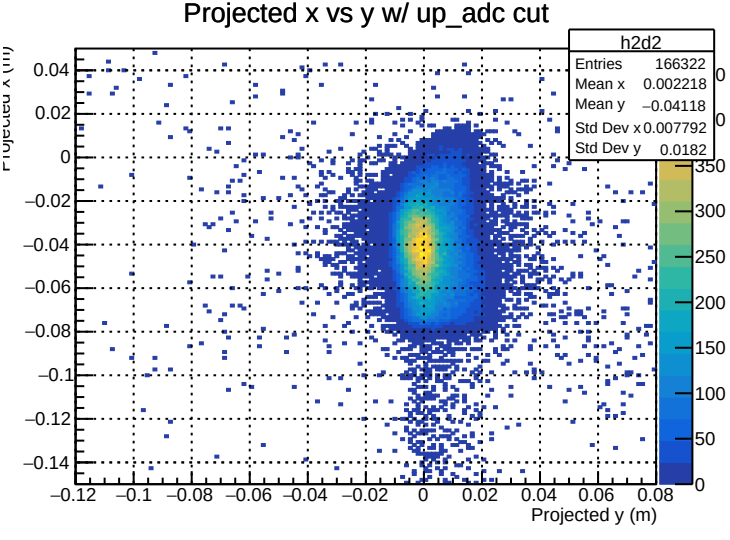

Q^2 (GeV/c)^2, xCut = -0.060 m
Q2
Entries 177550
Mean 0.006401
Std Dev 0.00124
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

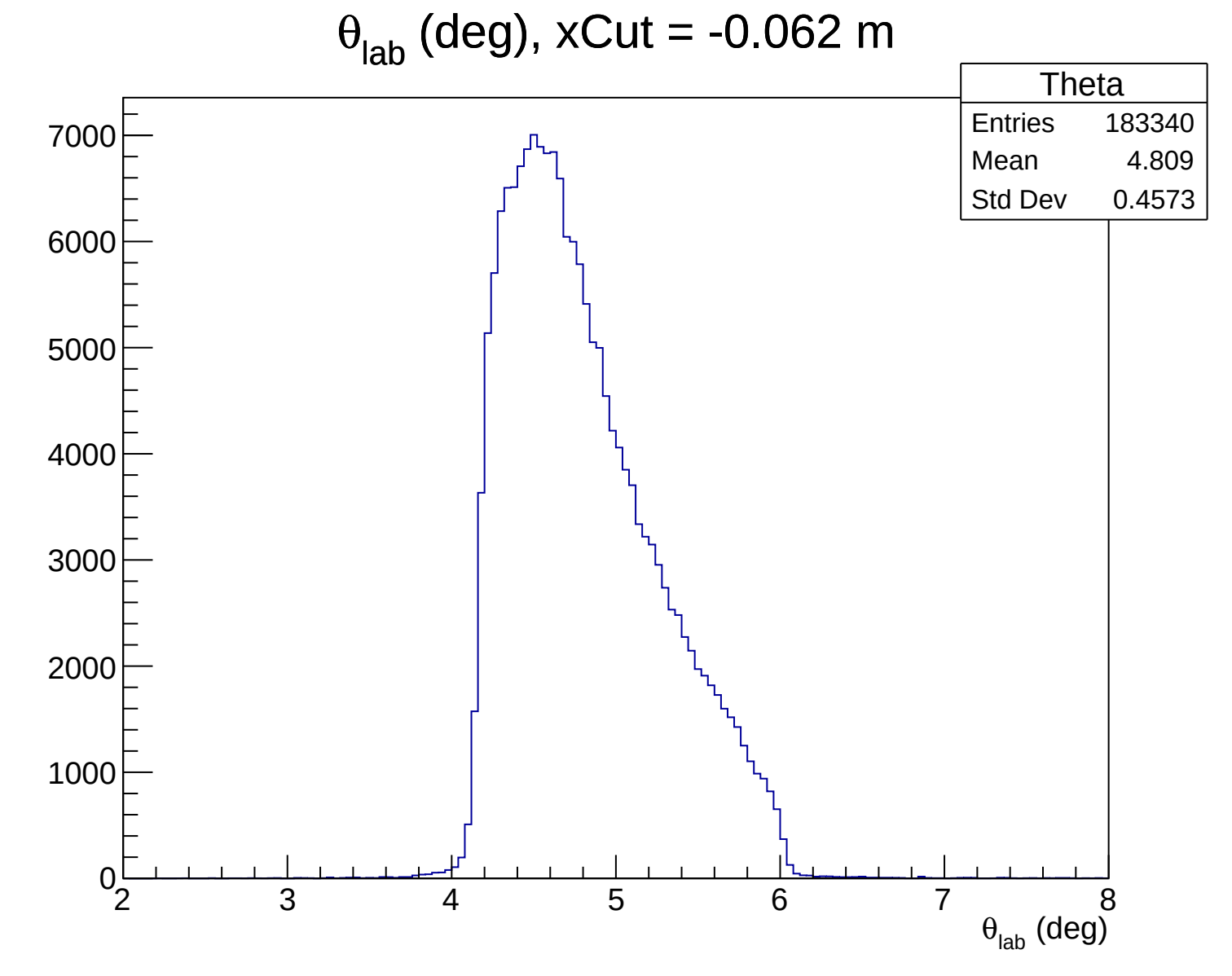

Sensitivity, xCut = -0.060 m
sens
Entries 177550
Mean 0.02249
Std Dev 0.003916
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

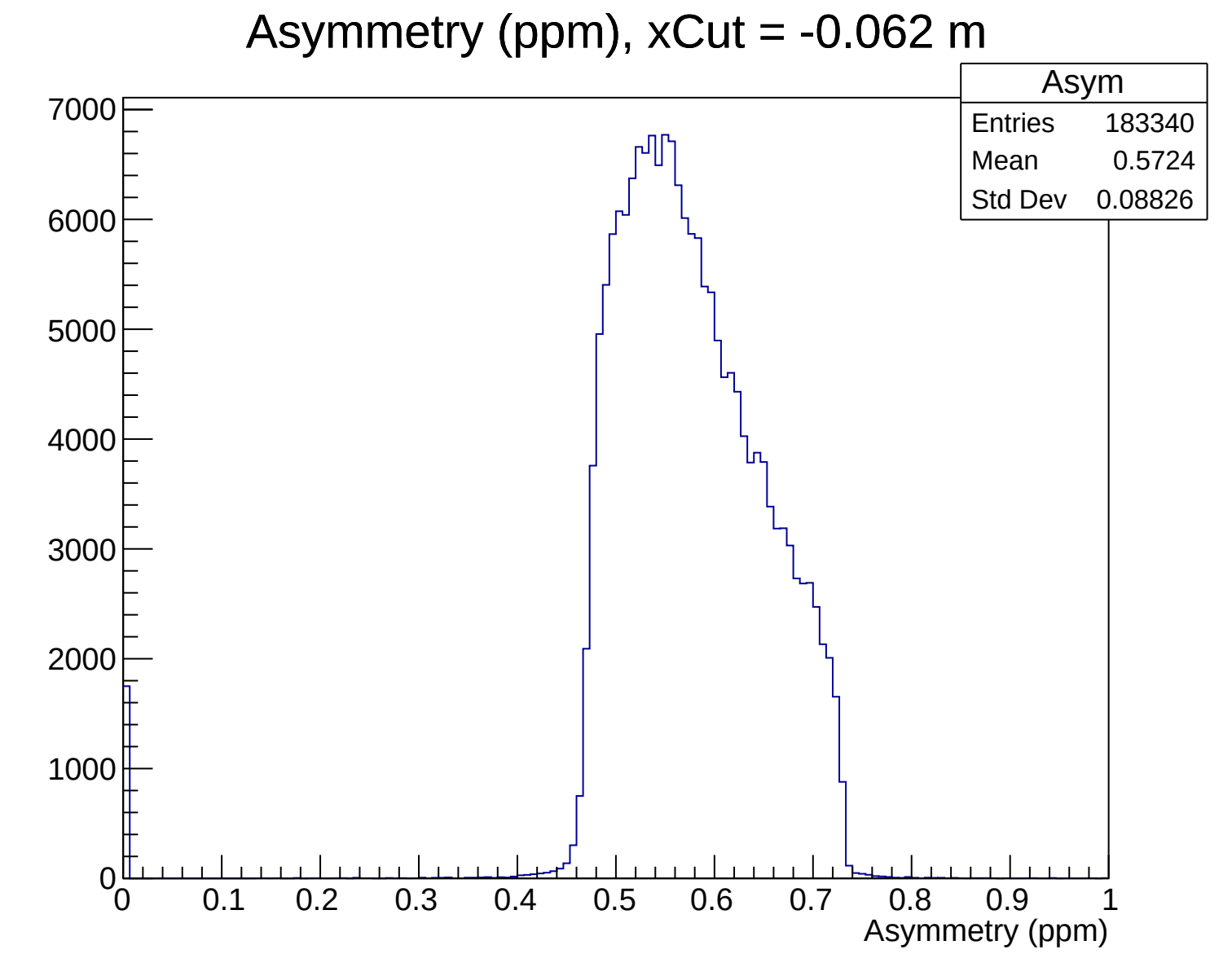

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

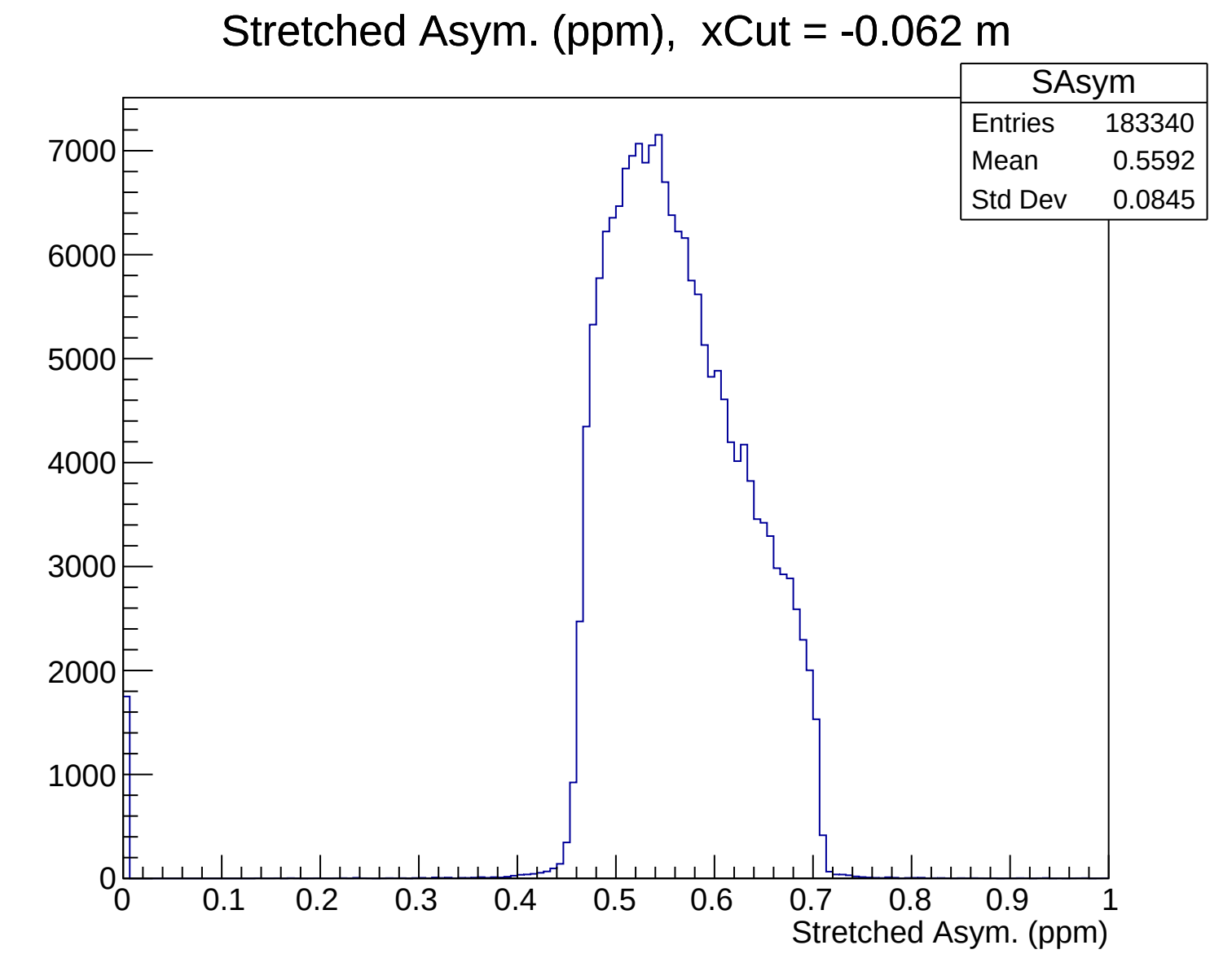

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

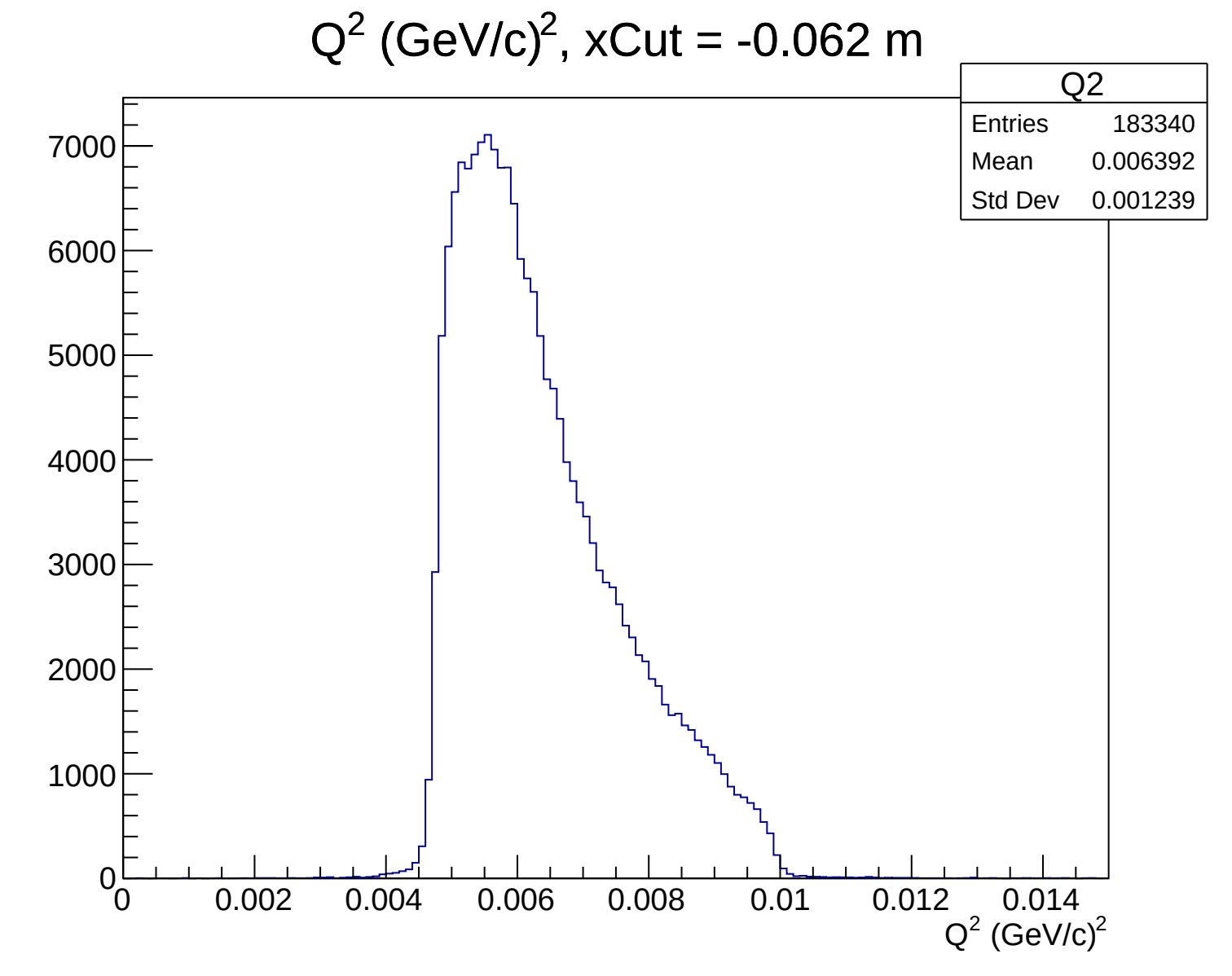

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.062
R.tr.x[0]+1.3*R.tr.th[0] (m)

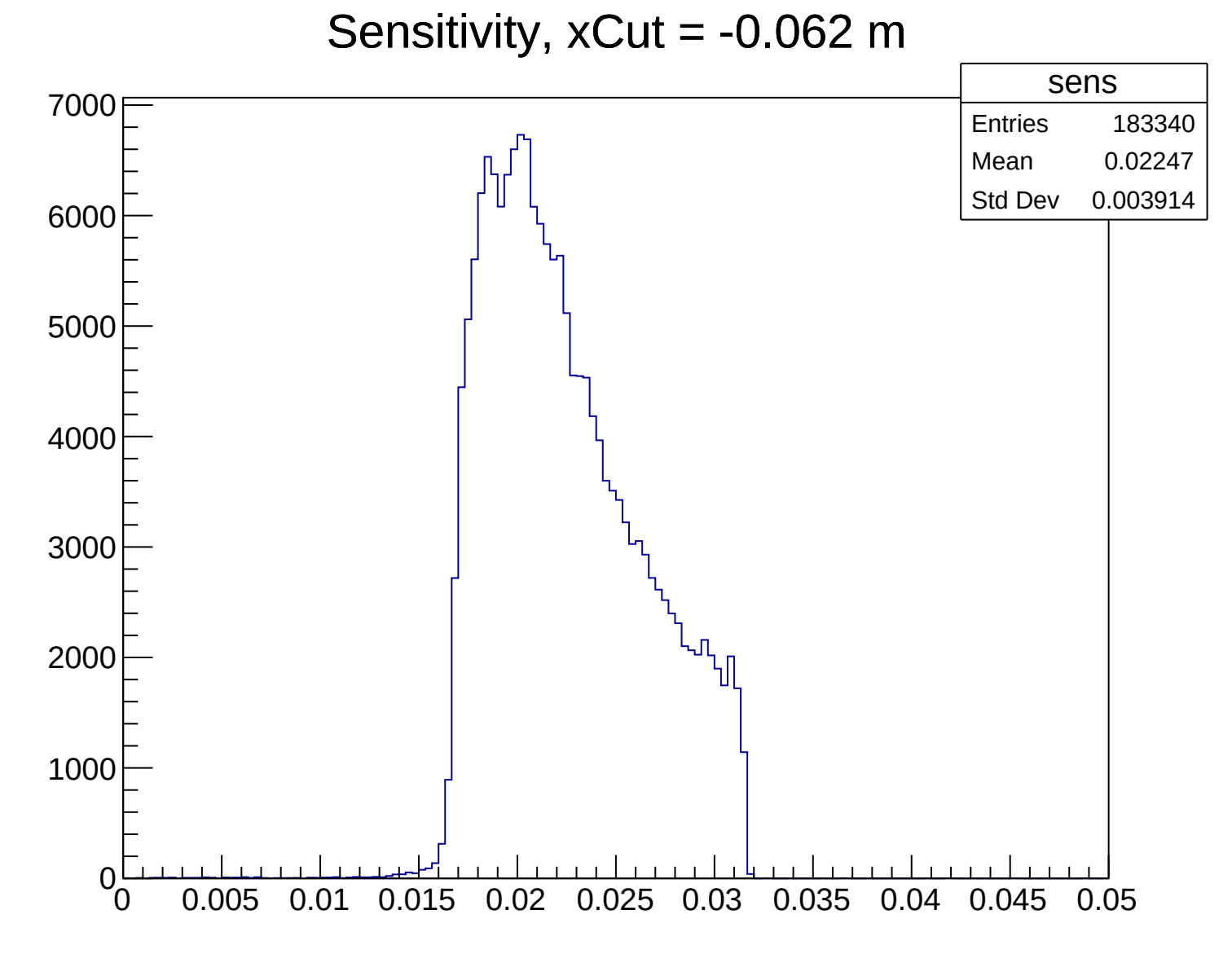

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

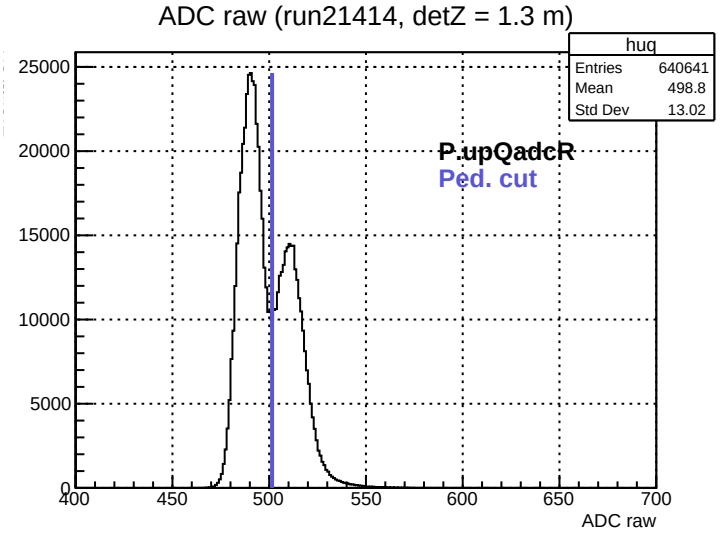

θlab (deg), xCut = -0.062 m
Theta
Entries 183340
Mean 4.809
Std Dev 0.4573
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

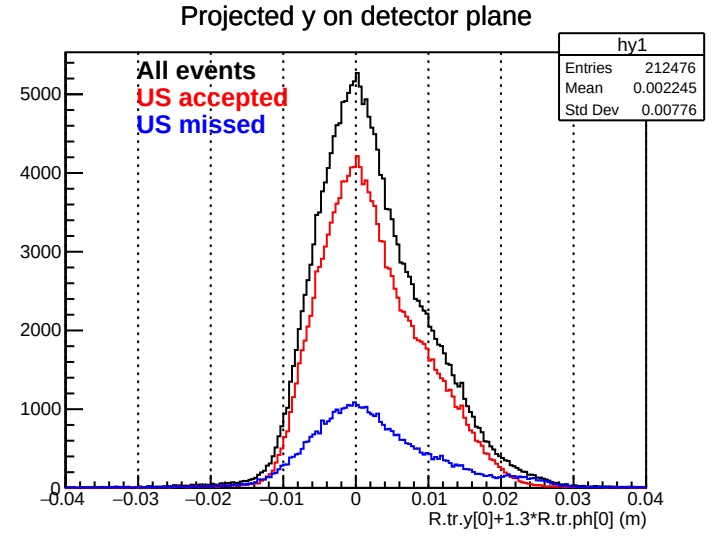

Asymmetry (ppm), xCut = -0.062 m
Asym
Entries 183340
Mean 0.5724
Std Dev 0.08826
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

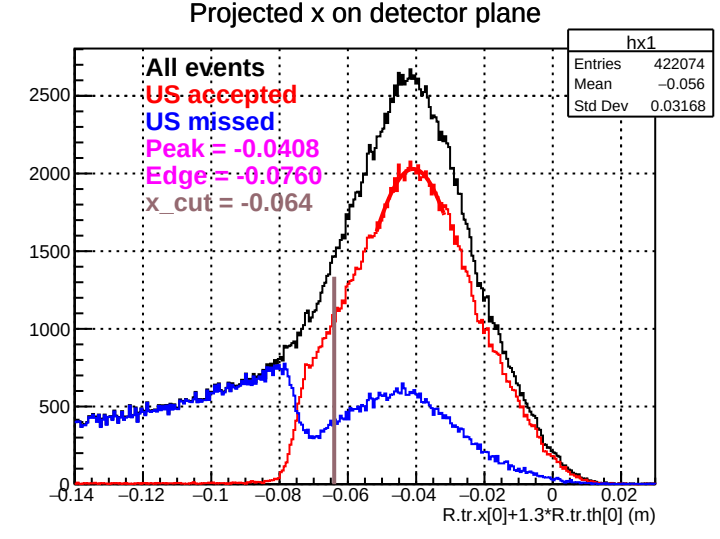

Stretched Asym. (ppm), xCut = -0.062 m
SAsym
Entries 183340
Mean 0.5592
Std Dev 0.0845
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

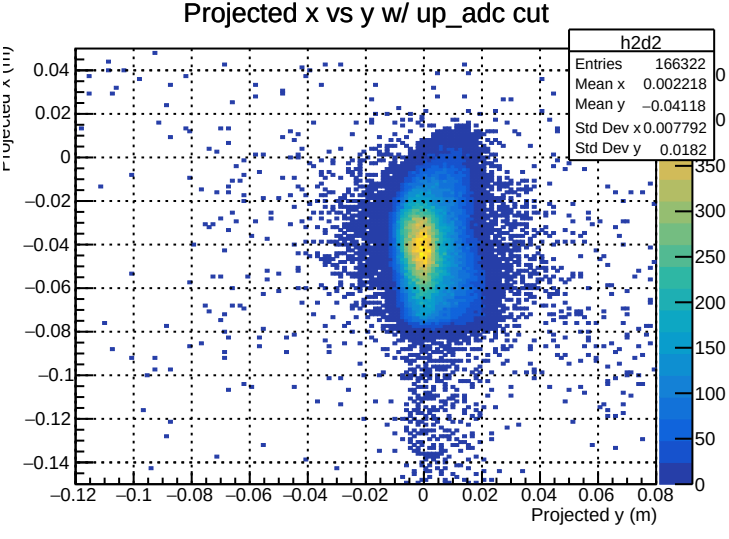

Q^2 (GeV/c)^2, xCut = -0.062 m
Q2
Entries 183340
Mean 0.006392
Std Dev 0.001239
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

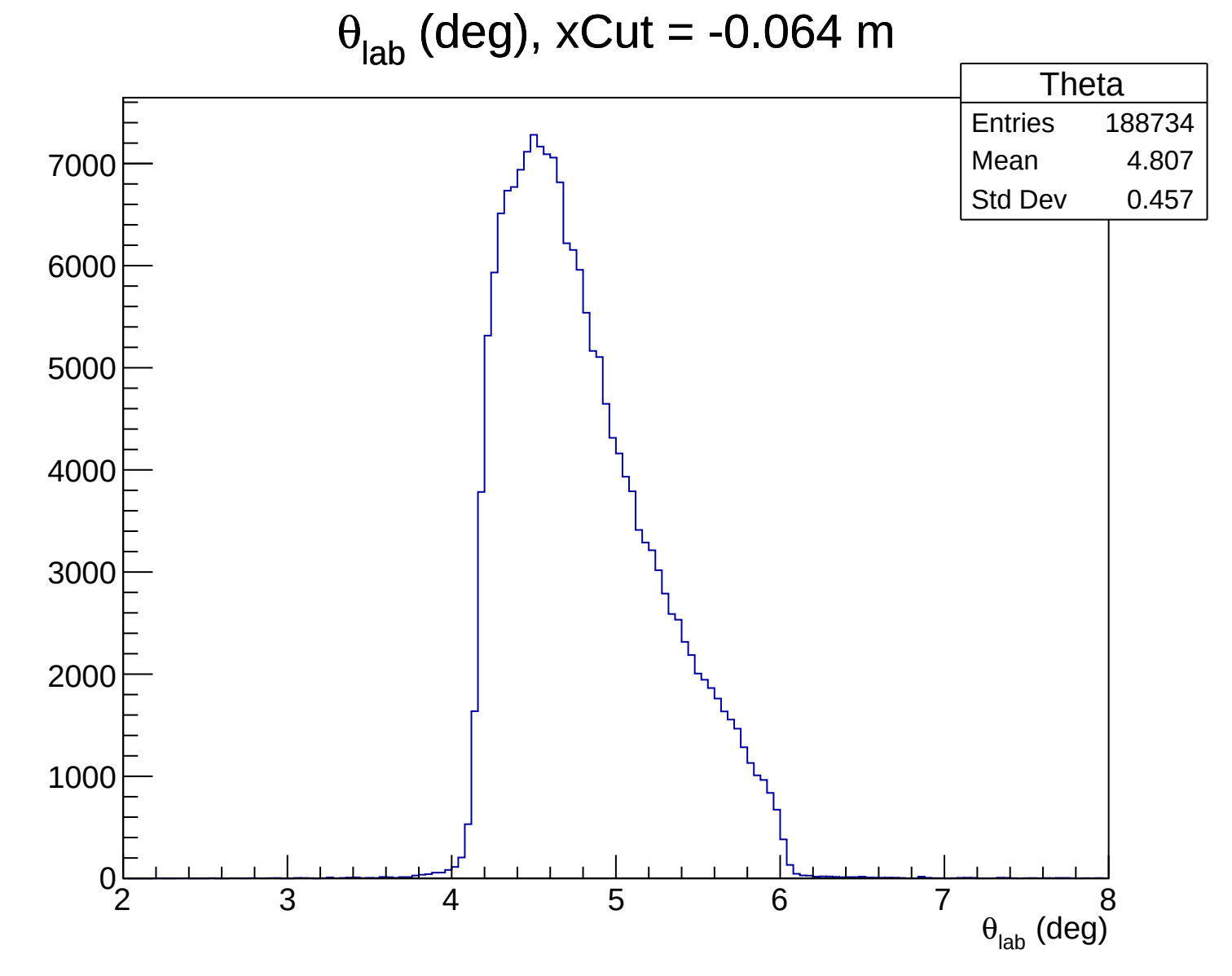

Sensitivity, xCut = -0.062 m
sens
Entries 183340
Mean 0.02247
Std Dev 0.003914
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

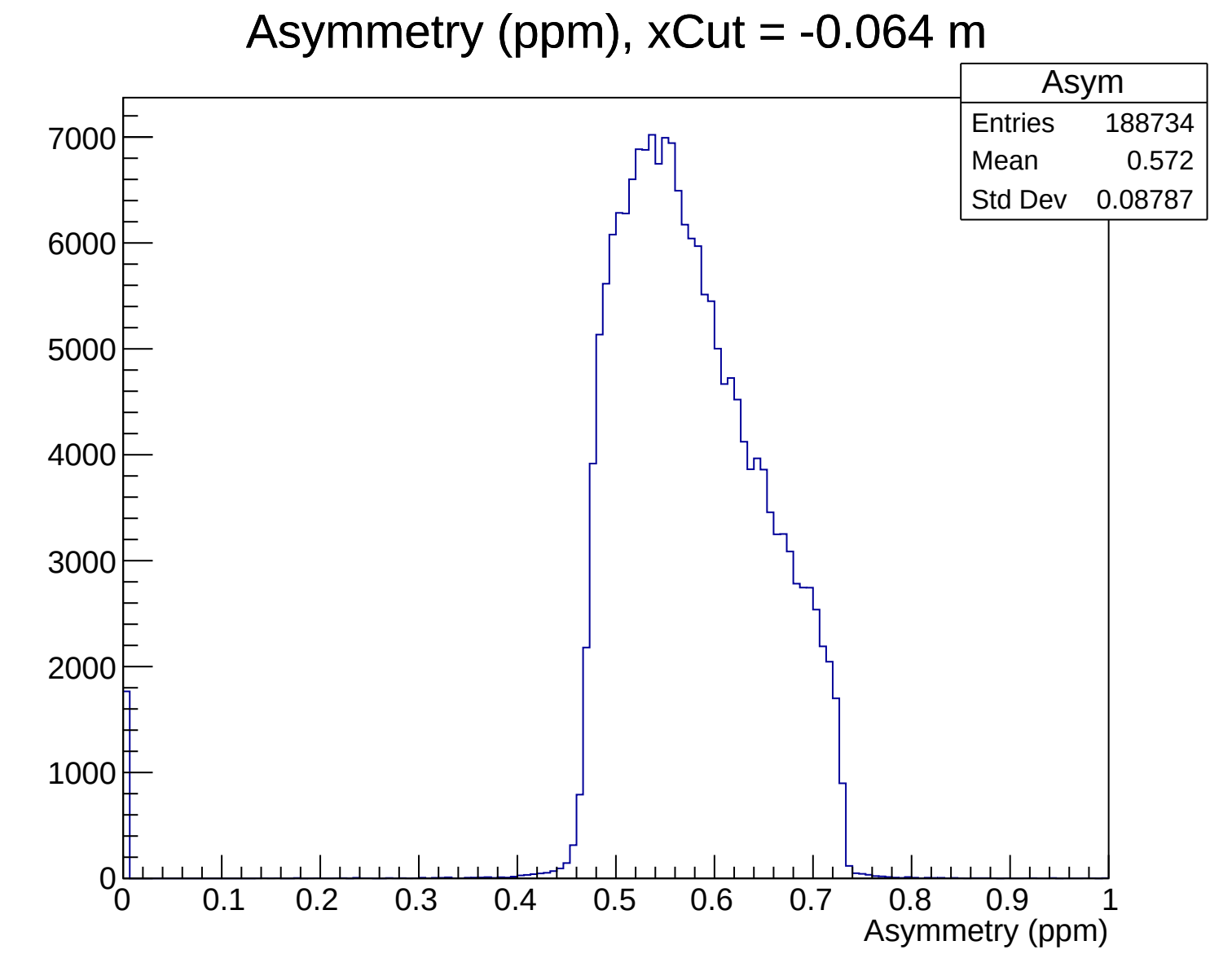

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

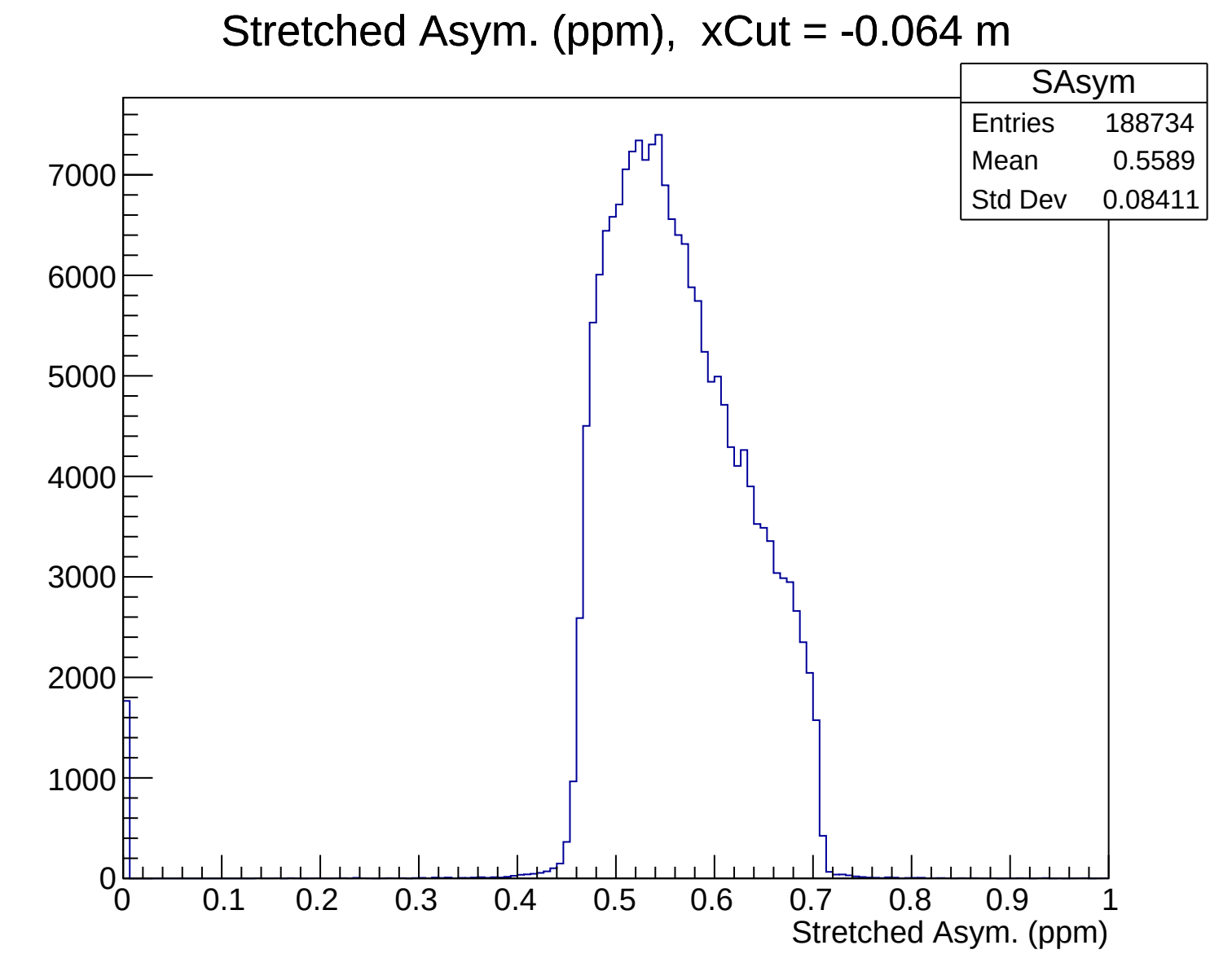

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

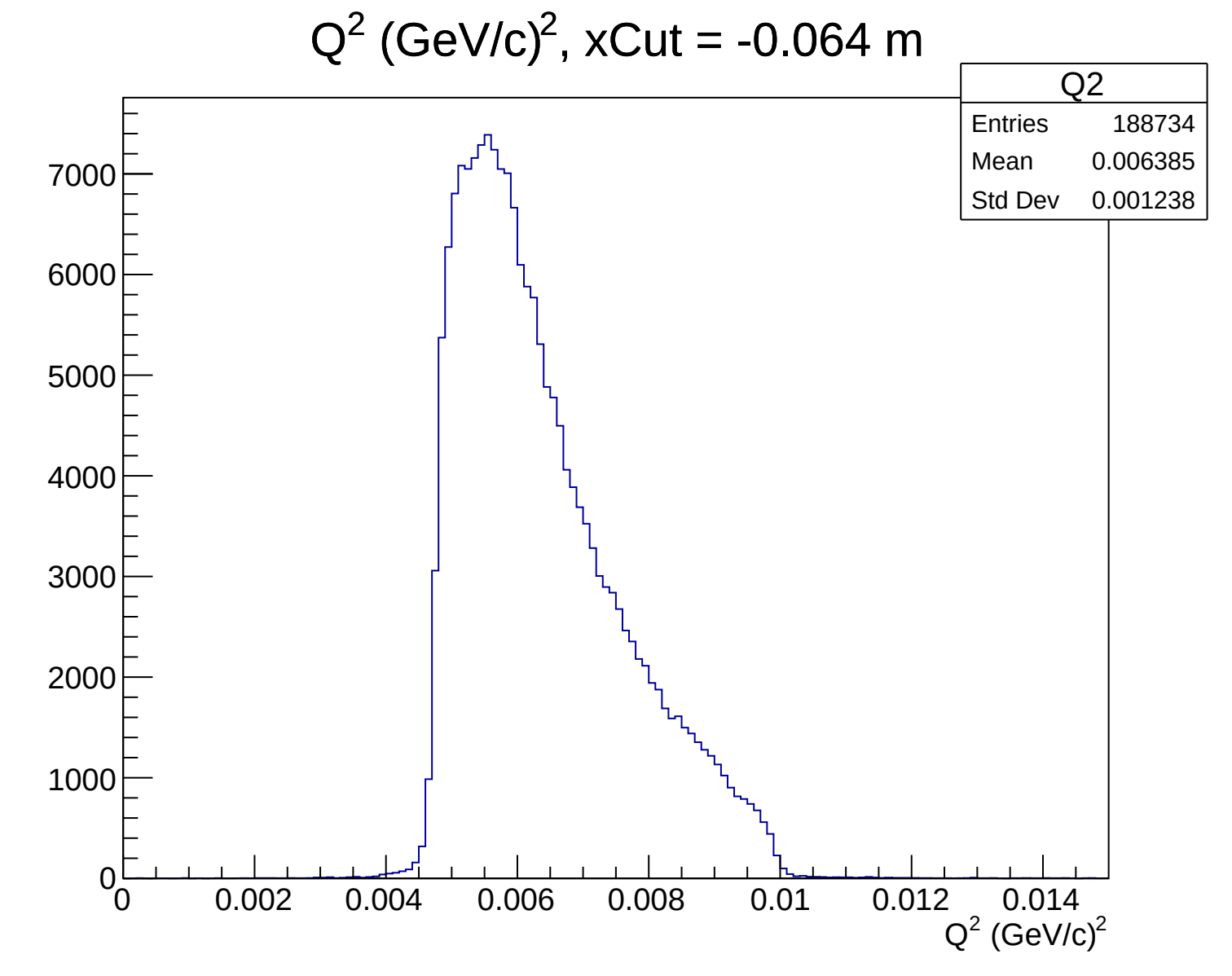

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.064
R.tr.x[0]+1.3*R.tr.th[0] (m)

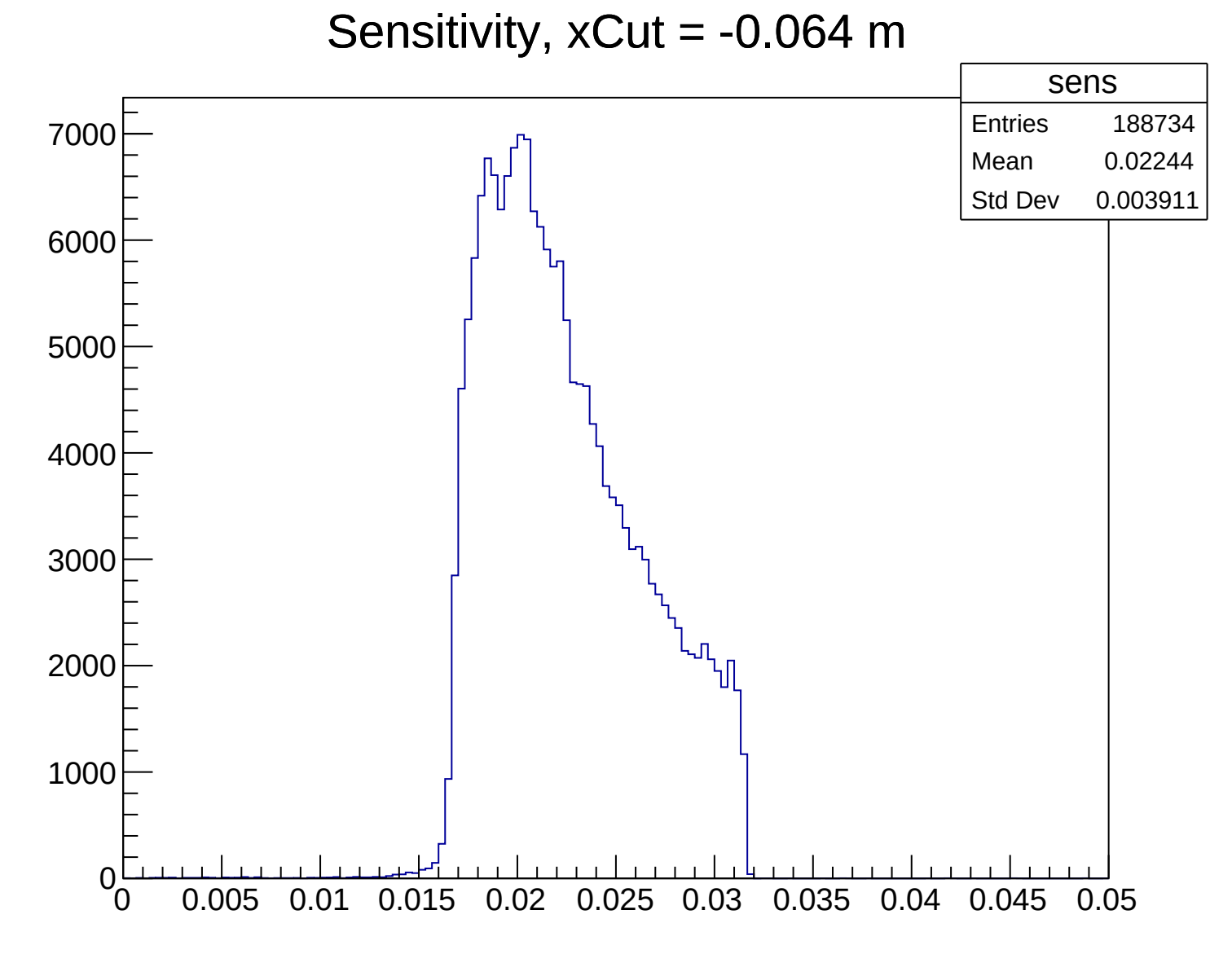

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

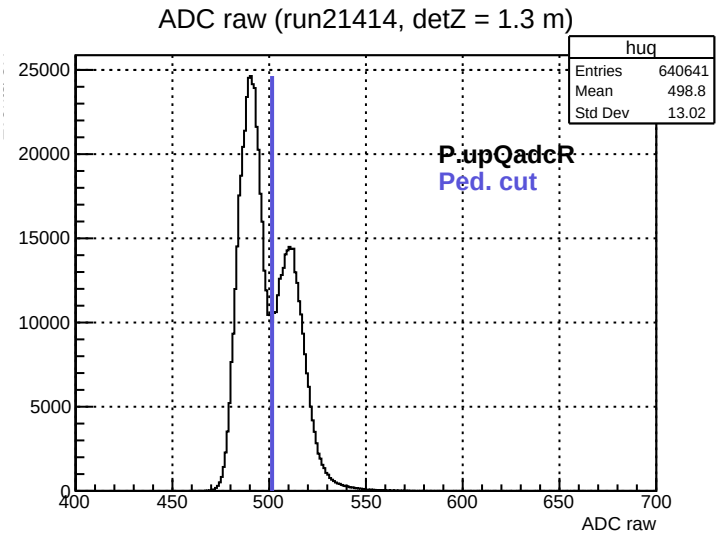

θlab (deg), xCut = -0.064 m
Theta
Entries 188734
Mean 4.807
Std Dev 0.457
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

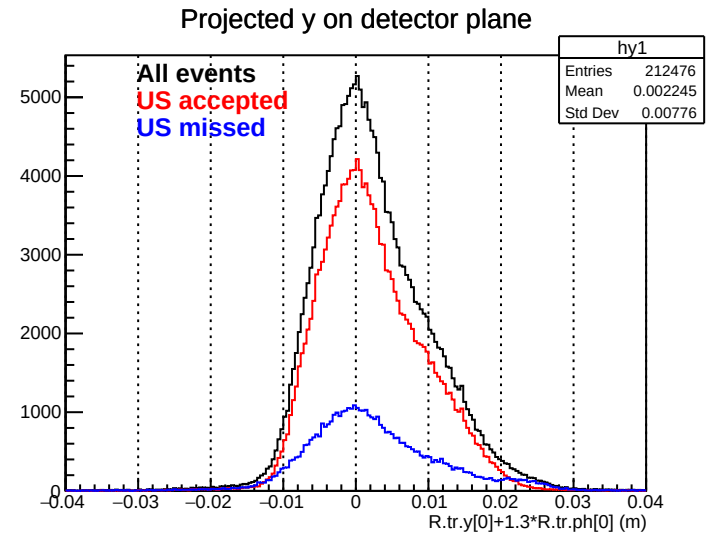

Asymmetry (ppm), xCut = -0.064 m
Asym
Entries 188734
Mean 0.572
Std Dev 0.08787
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

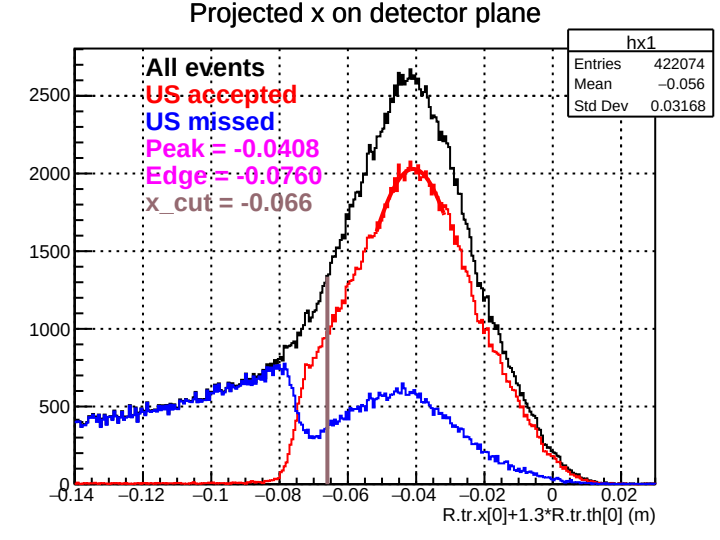

Stretched Asym. (ppm), xCut = -0.064 m
SAsym
Entries 188734
Mean 0.5589
Std Dev 0.08411
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

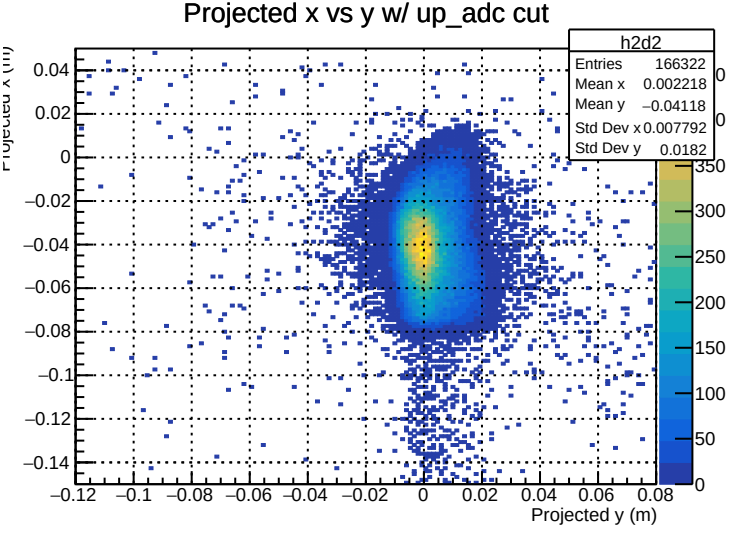

Q^2 (GeV/c)^2, xCut = -0.064 m
Q2
Entries 188734
Mean 0.006385
Std Dev 0.001238
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

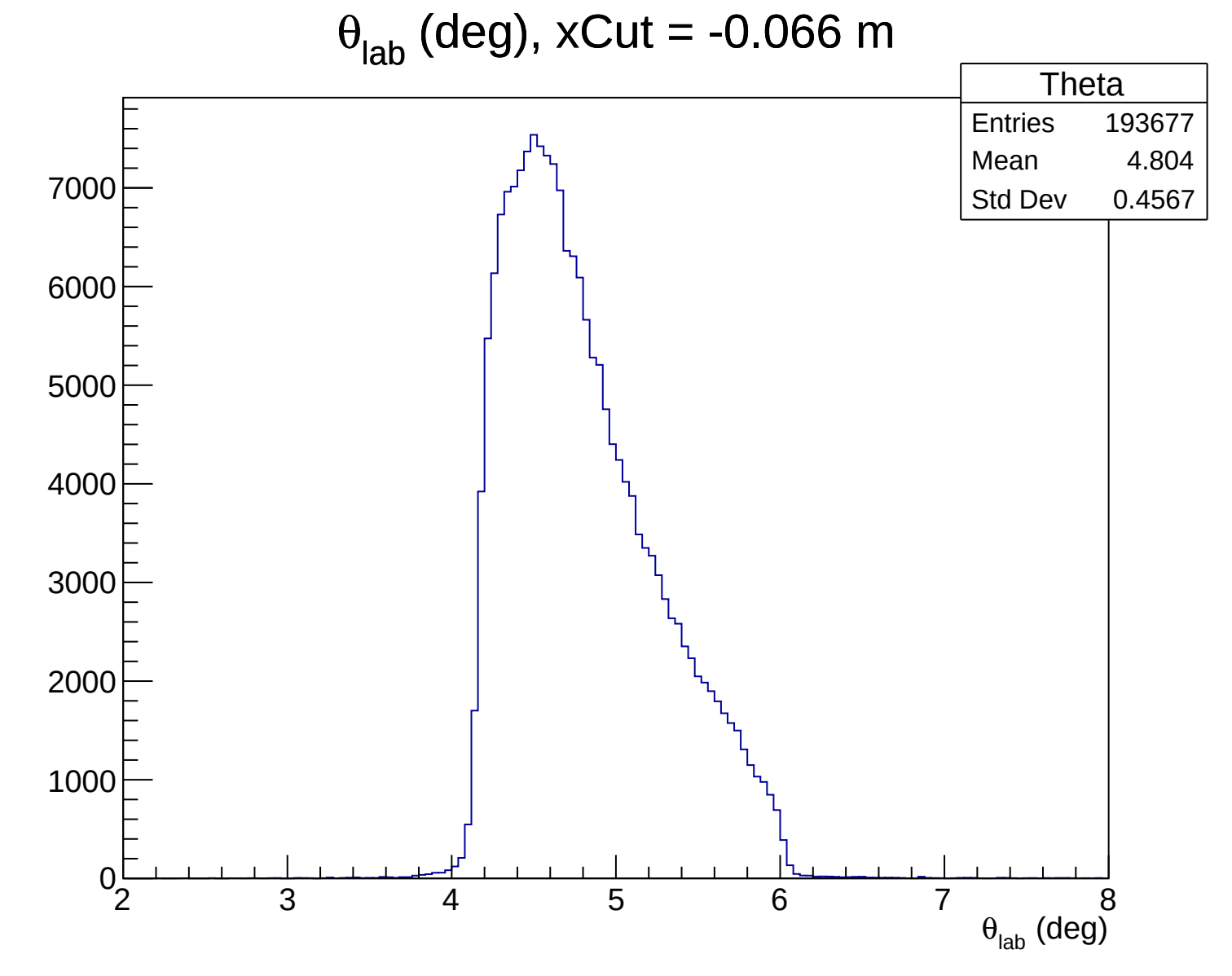

Sensitivity, xCut = -0.064 m
sens
Entries 188734
Mean 0.02244
Std Dev 0.003911
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

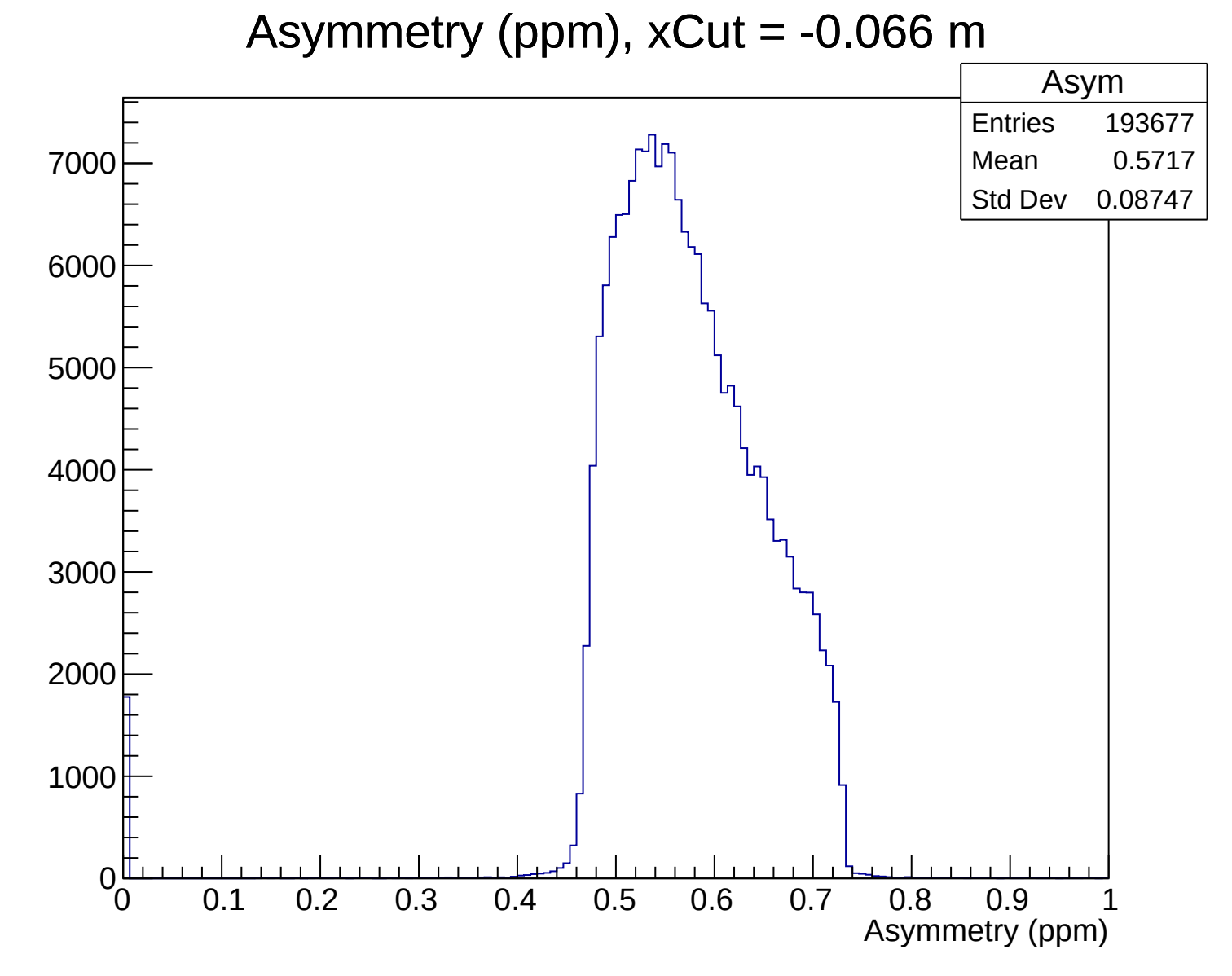

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

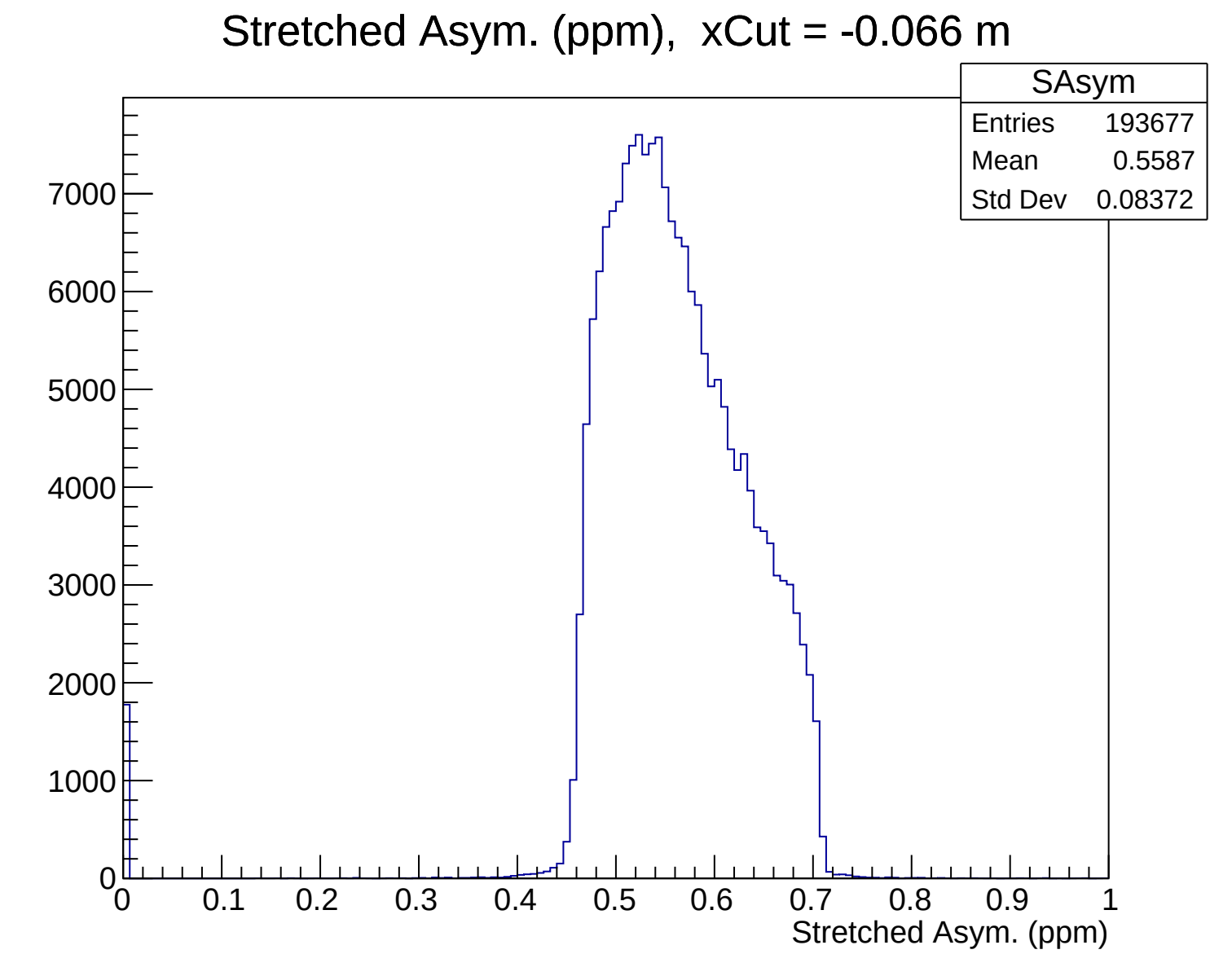

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

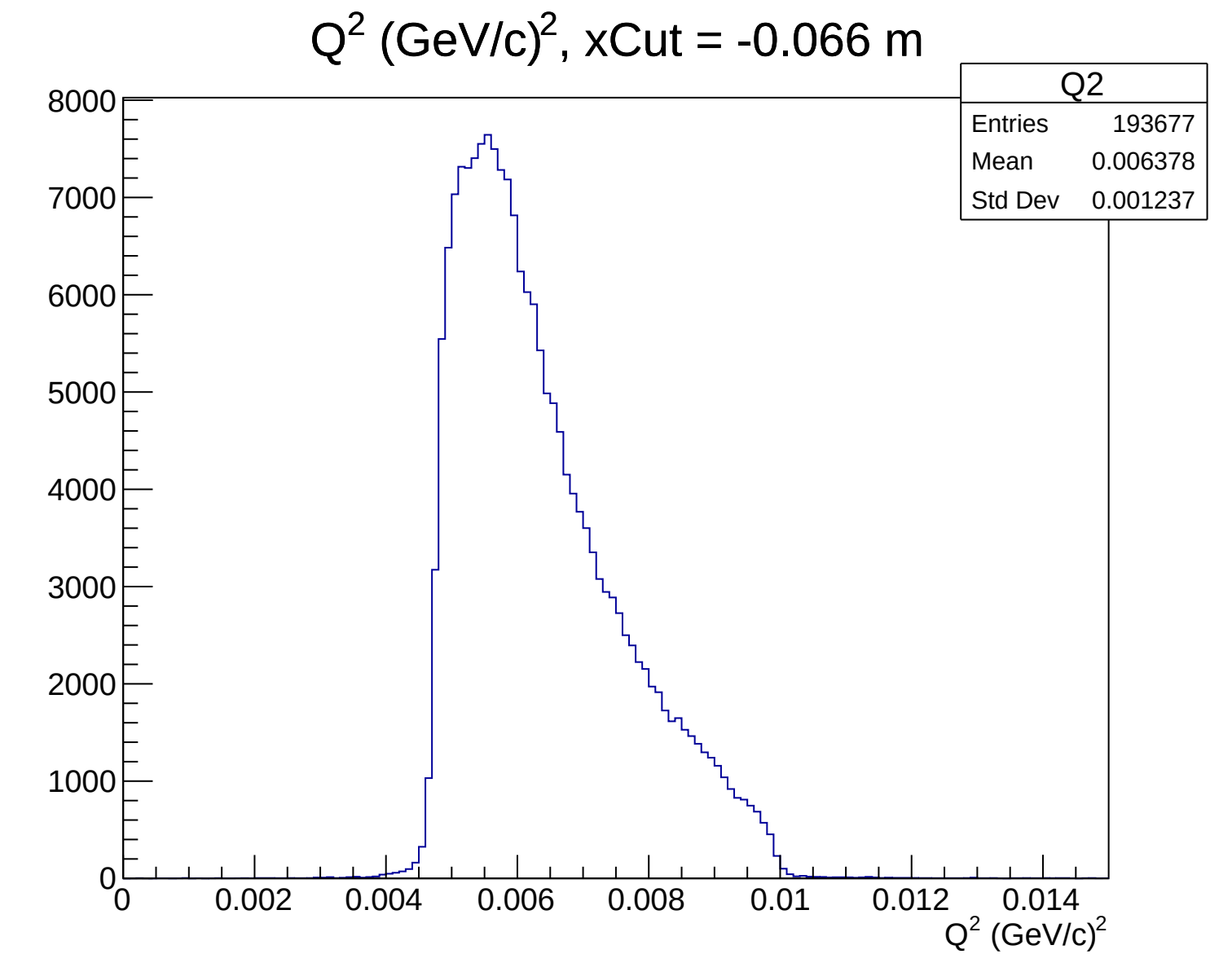

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.066
R.tr.x[0]+1.3*R.tr.th[0] (m)

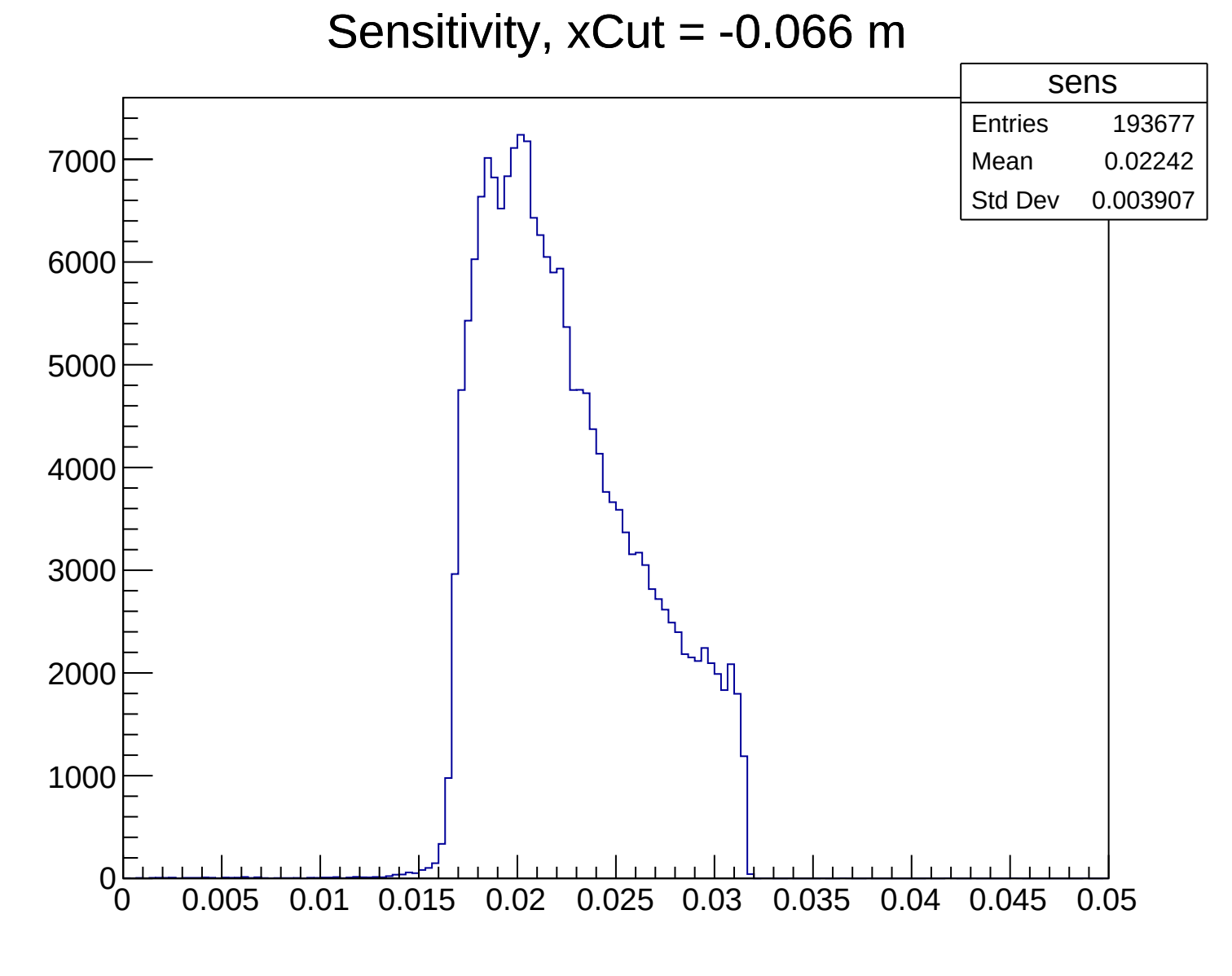

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

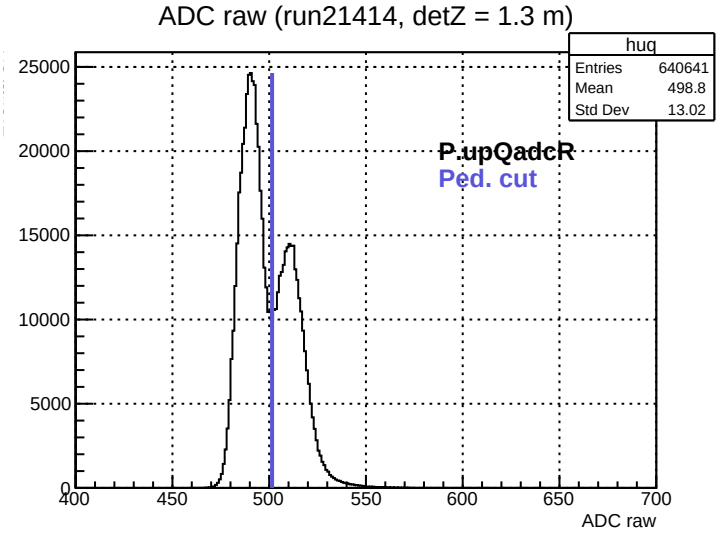

θlab (deg), xCut = -0.066 m
Theta
Entries 193677
Mean 4.804
Std Dev 0.4567
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

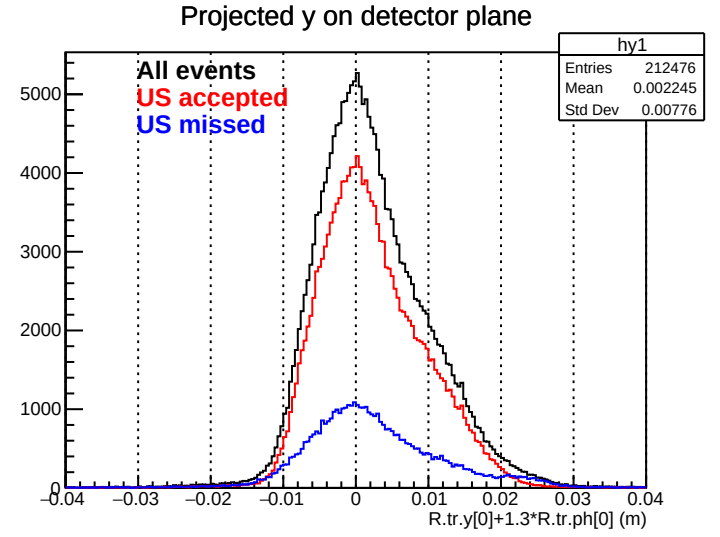

Asymmetry (ppm), xCut = -0.066 m
Asym
Entries 193677
Mean 0.5717
Std Dev 0.08747
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

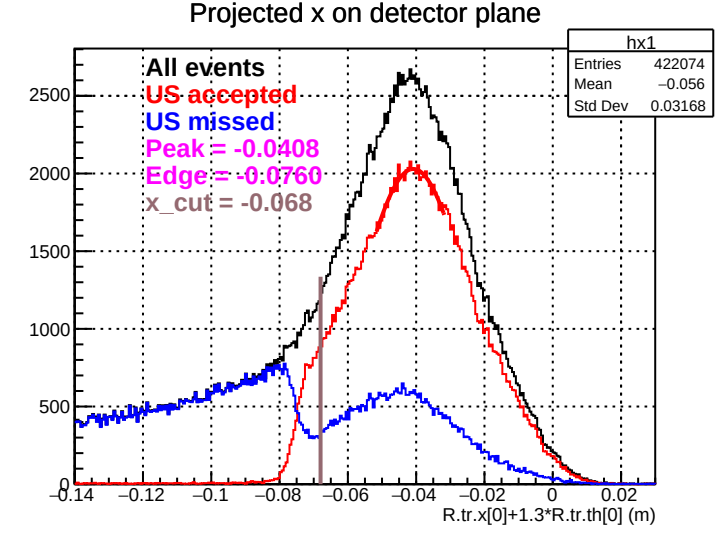

Stretched Asym. (ppm), xCut = -0.066 m
SAsym
Entries 193677
Mean 0.5587
Std Dev 0.08372
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

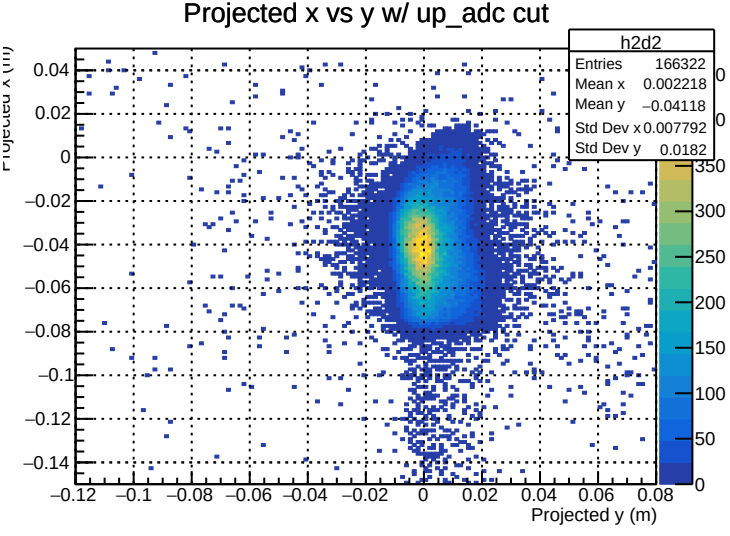

Q^2 (GeV/c)^2, xCut = -0.066 m
Q2
Entries 193677
Mean 0.006378
Std Dev 0.001237
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

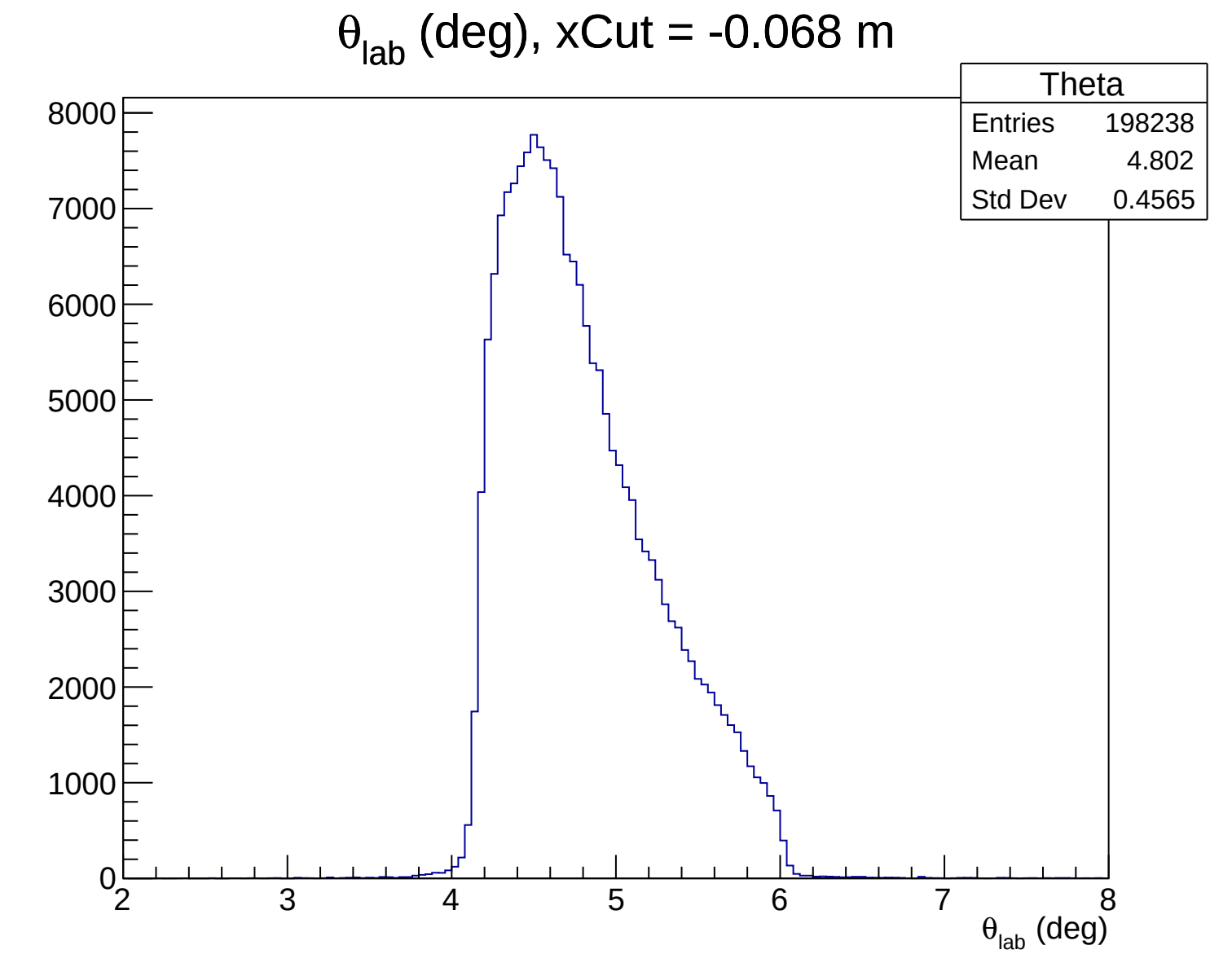

Sensitivity, xCut = -0.066 m
sens
Entries 193677
Mean 0.02242
Std Dev 0.003907
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

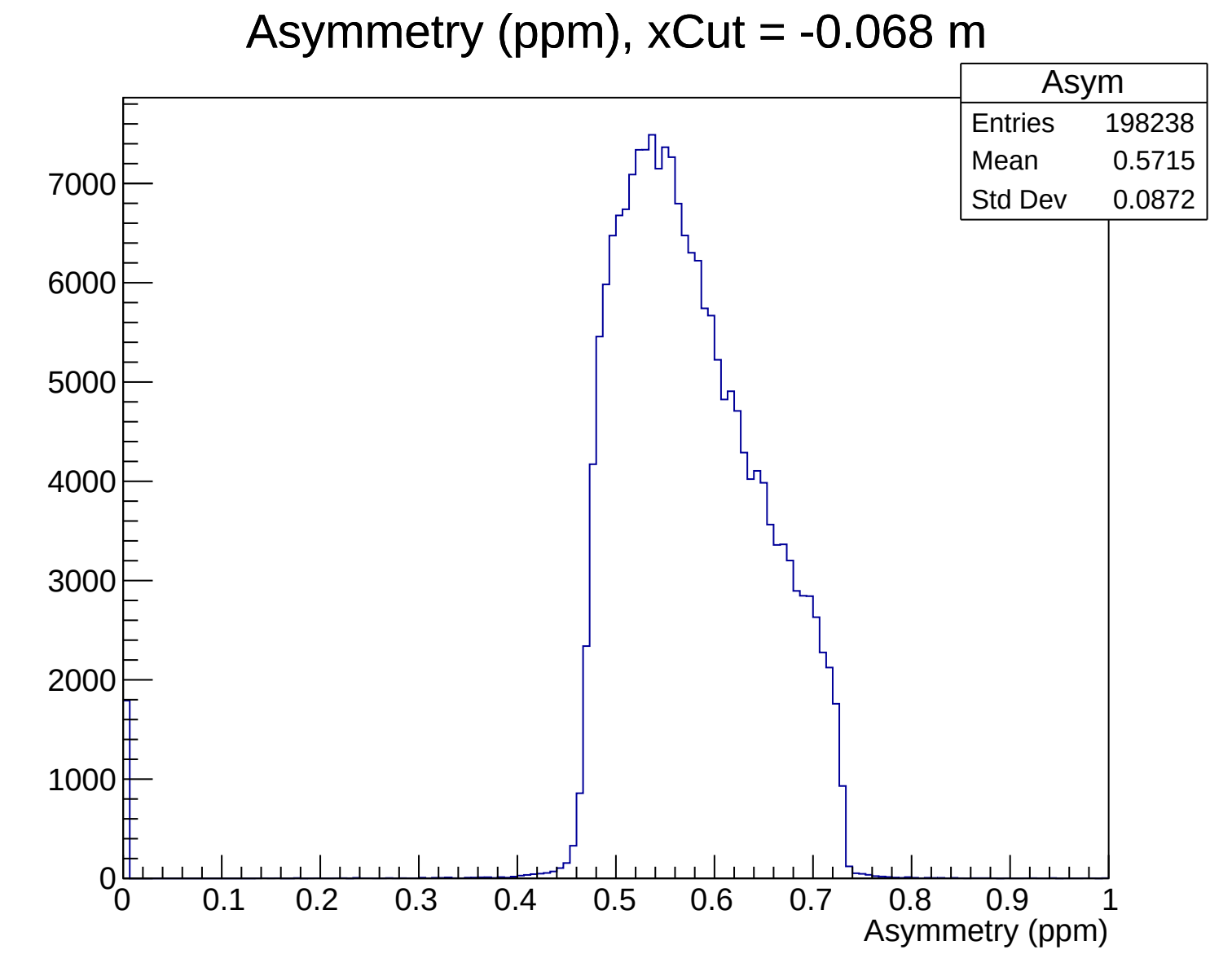

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

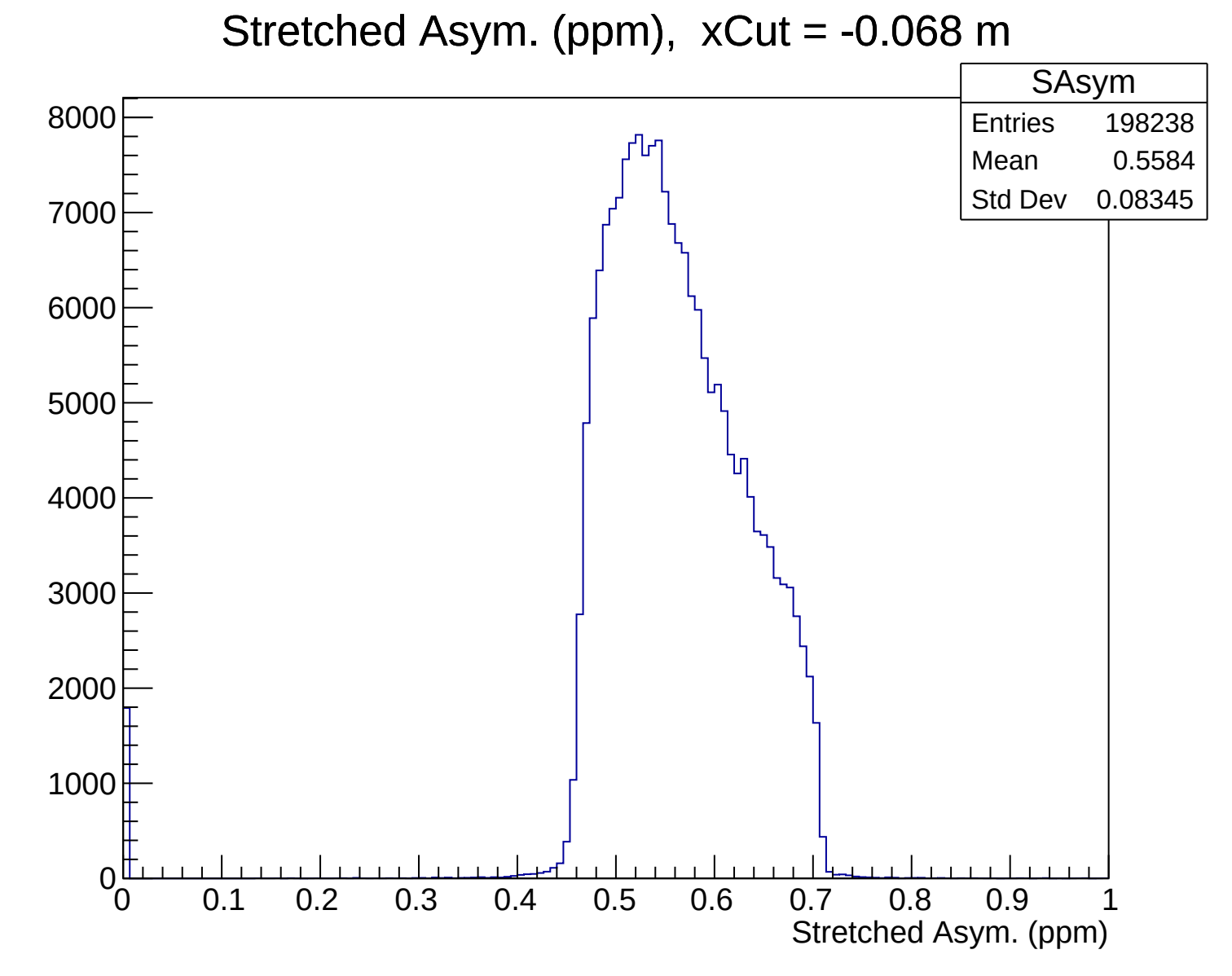

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

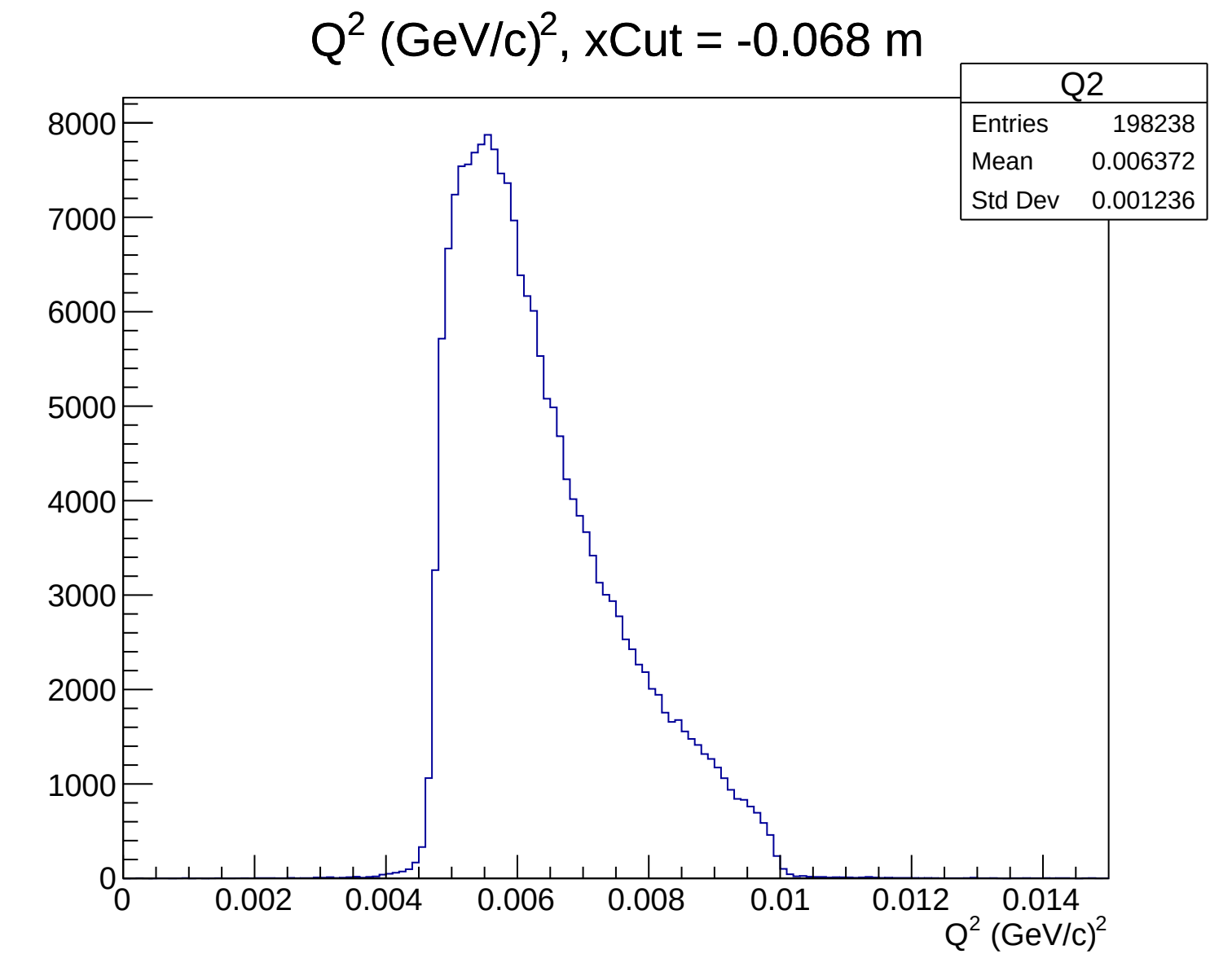

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.068
R.tr.x[0]+1.3*R.tr.th[0] (m)

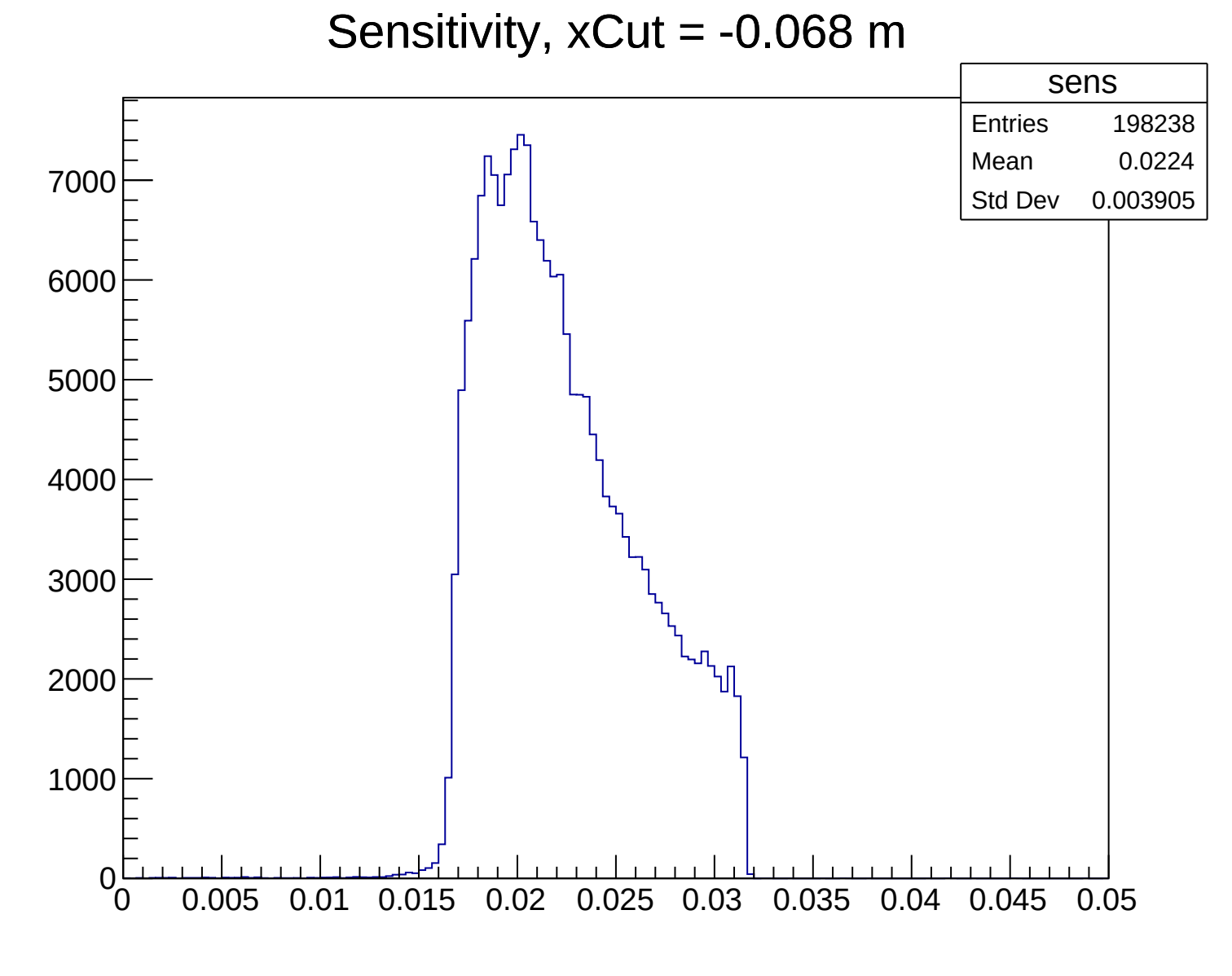

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

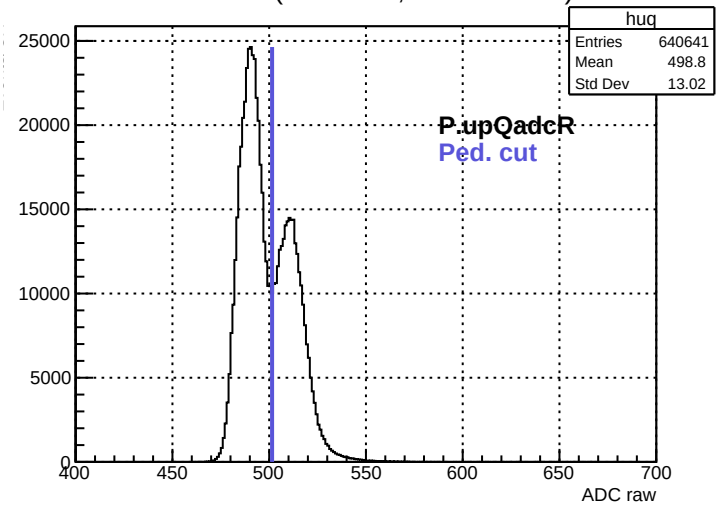

θlab (deg), xCut = -0.068 m
Theta
Entries 198238
Mean 4.802
Std Dev 0.4565
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

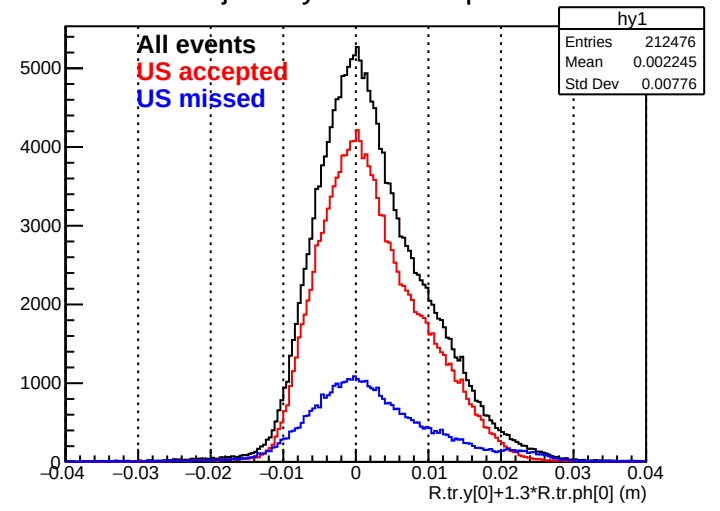

Asymmetry (ppm), xCut = -0.068 m
Asym
Entries 198238
Mean 0.5715
Std Dev 0.0872
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

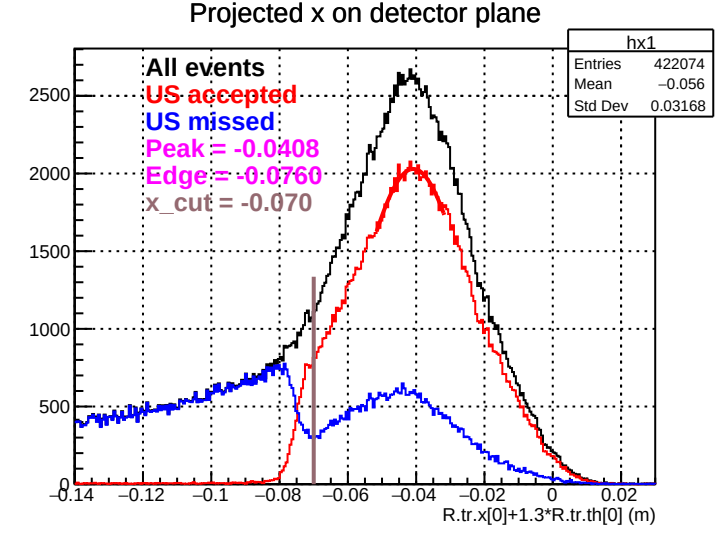

Stretched Asym. (ppm), xCut = -0.068 m
SAsym
Entries 198238
Mean 0.5584
Std Dev 0.08345
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

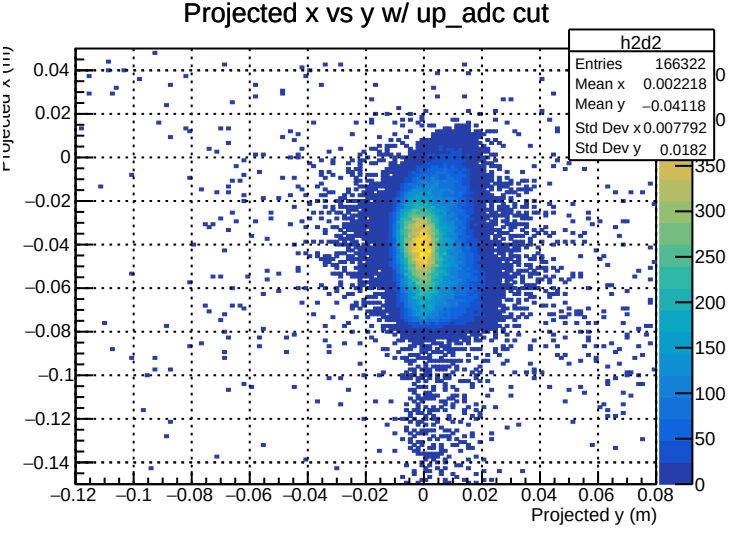

Q^2 (GeV/c)^2, xCut = -0.068 m
Q2
Entries 198238
Mean 0.006372
Std Dev 0.001236
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

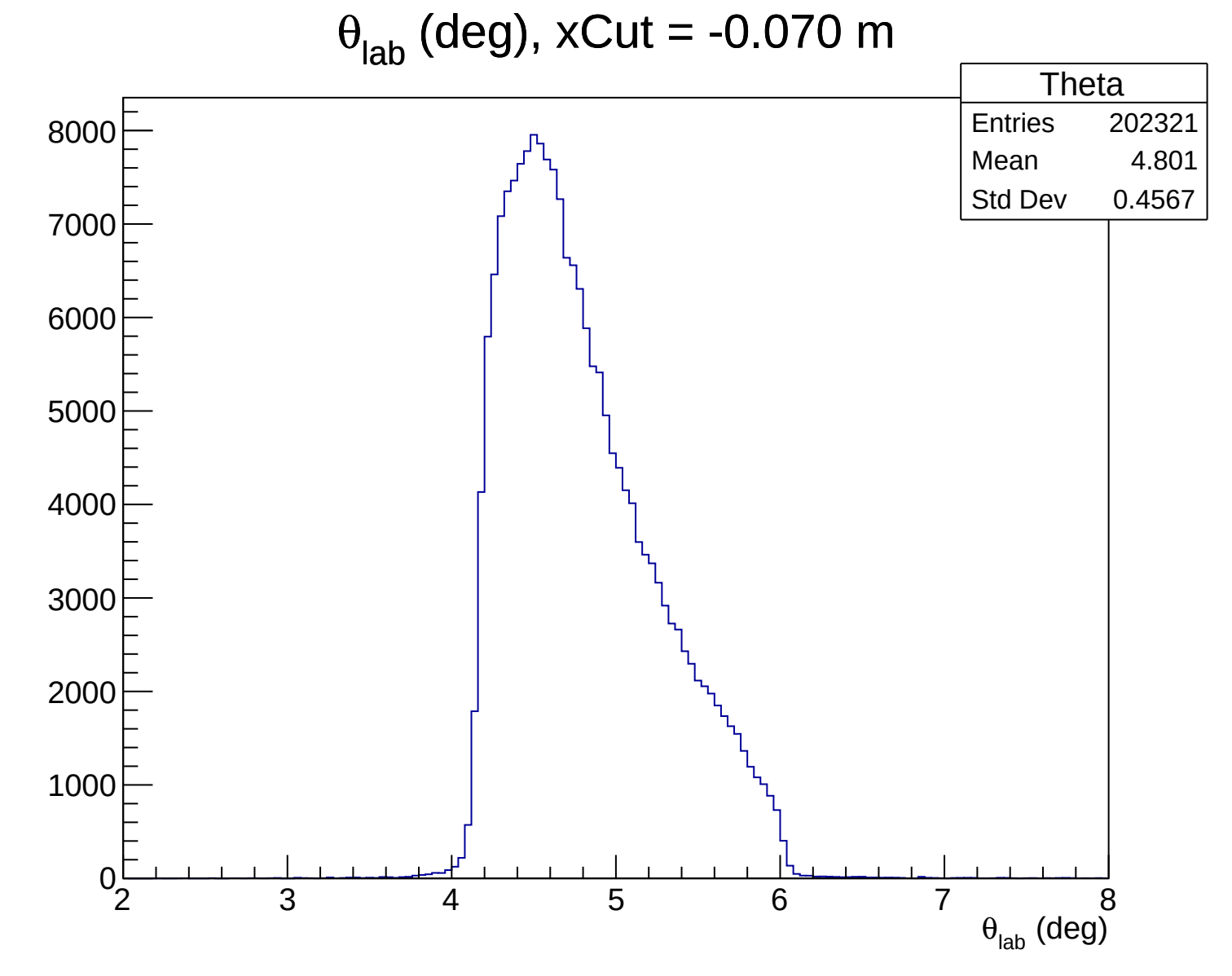

Sensitivity, xCut = -0.068 m
sens
Entries 198238
Mean 0.0224
Std Dev 0.003905
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

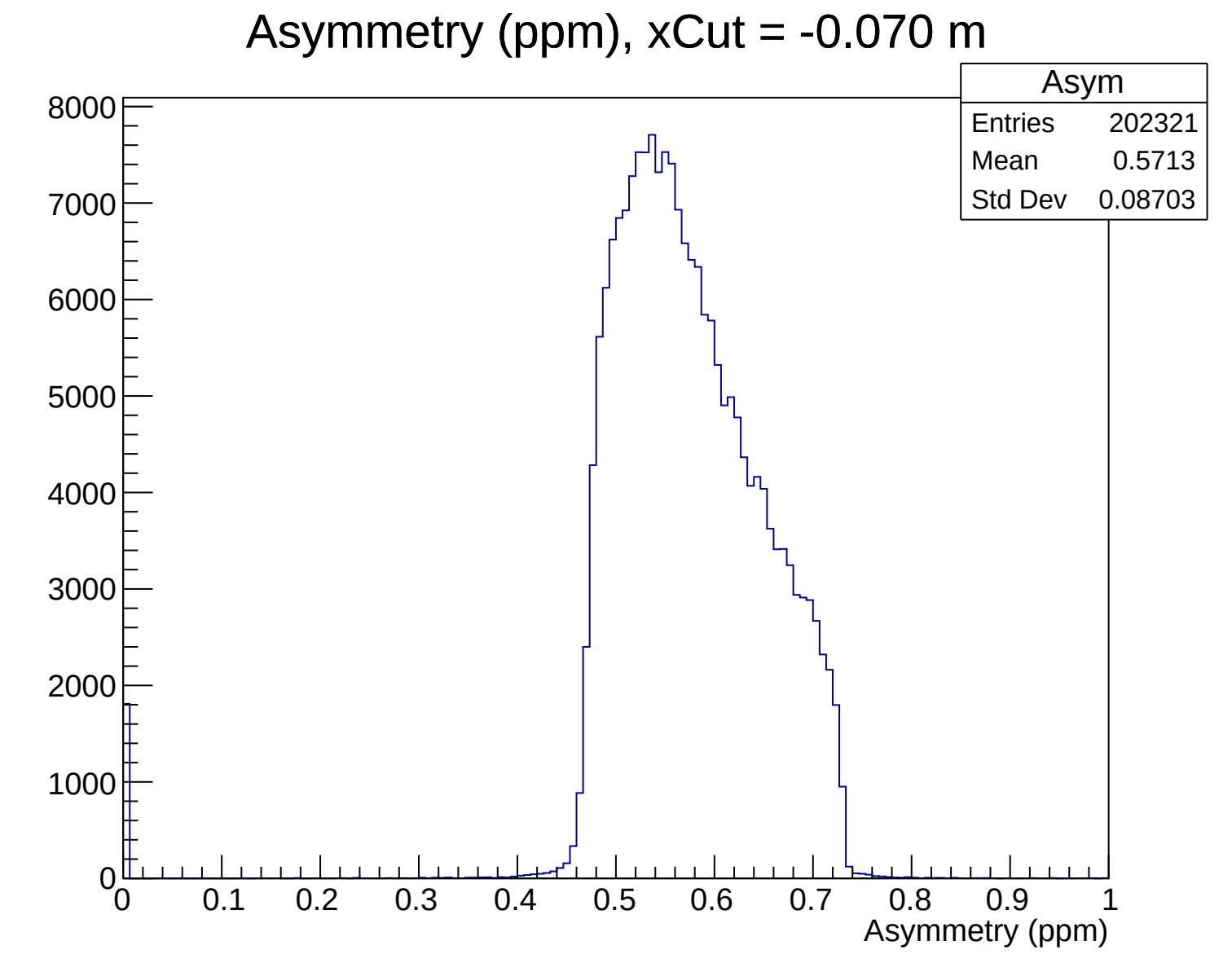

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

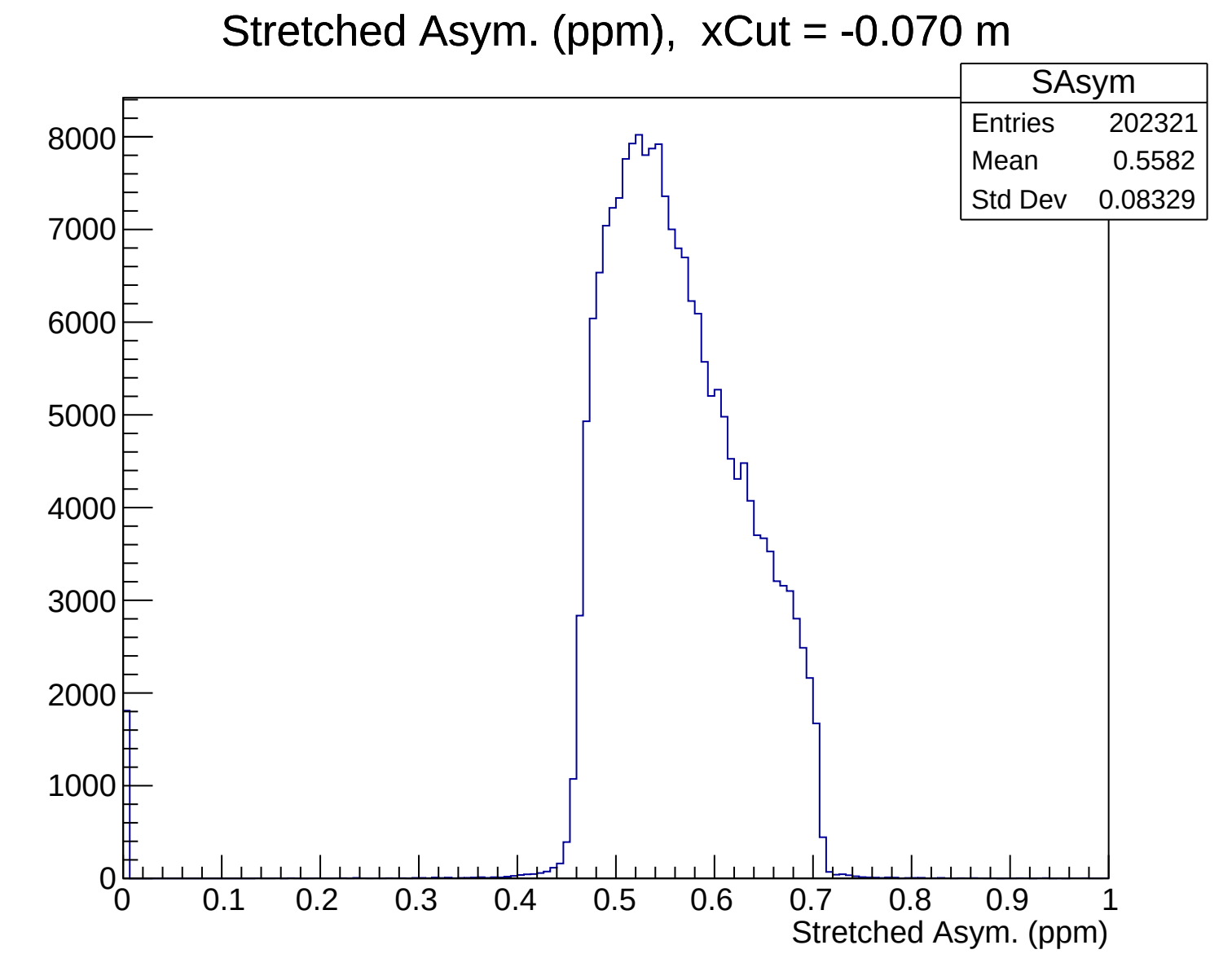

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

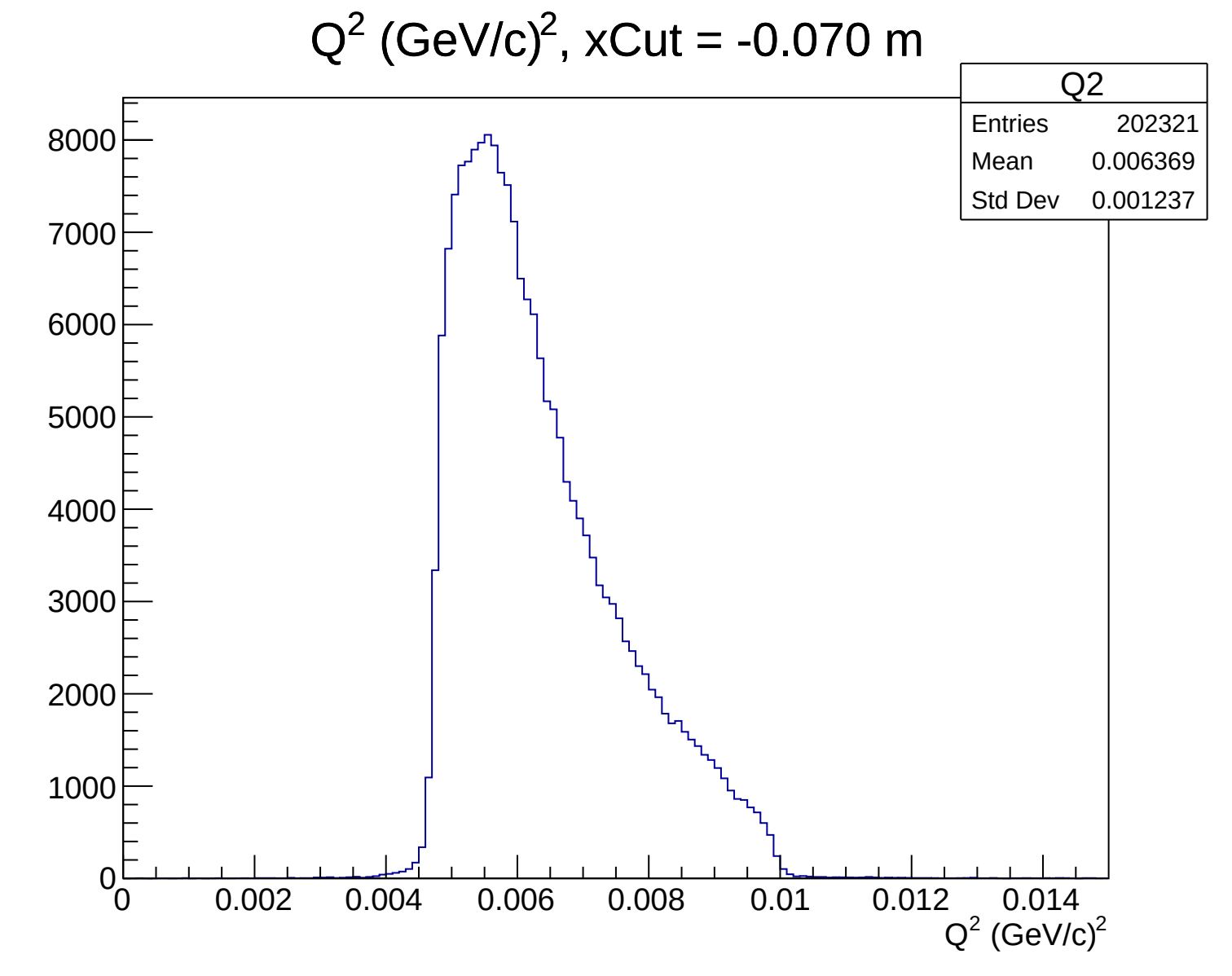

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.070
R.tr.x[0]+1.3*R.tr.th[0] (m)

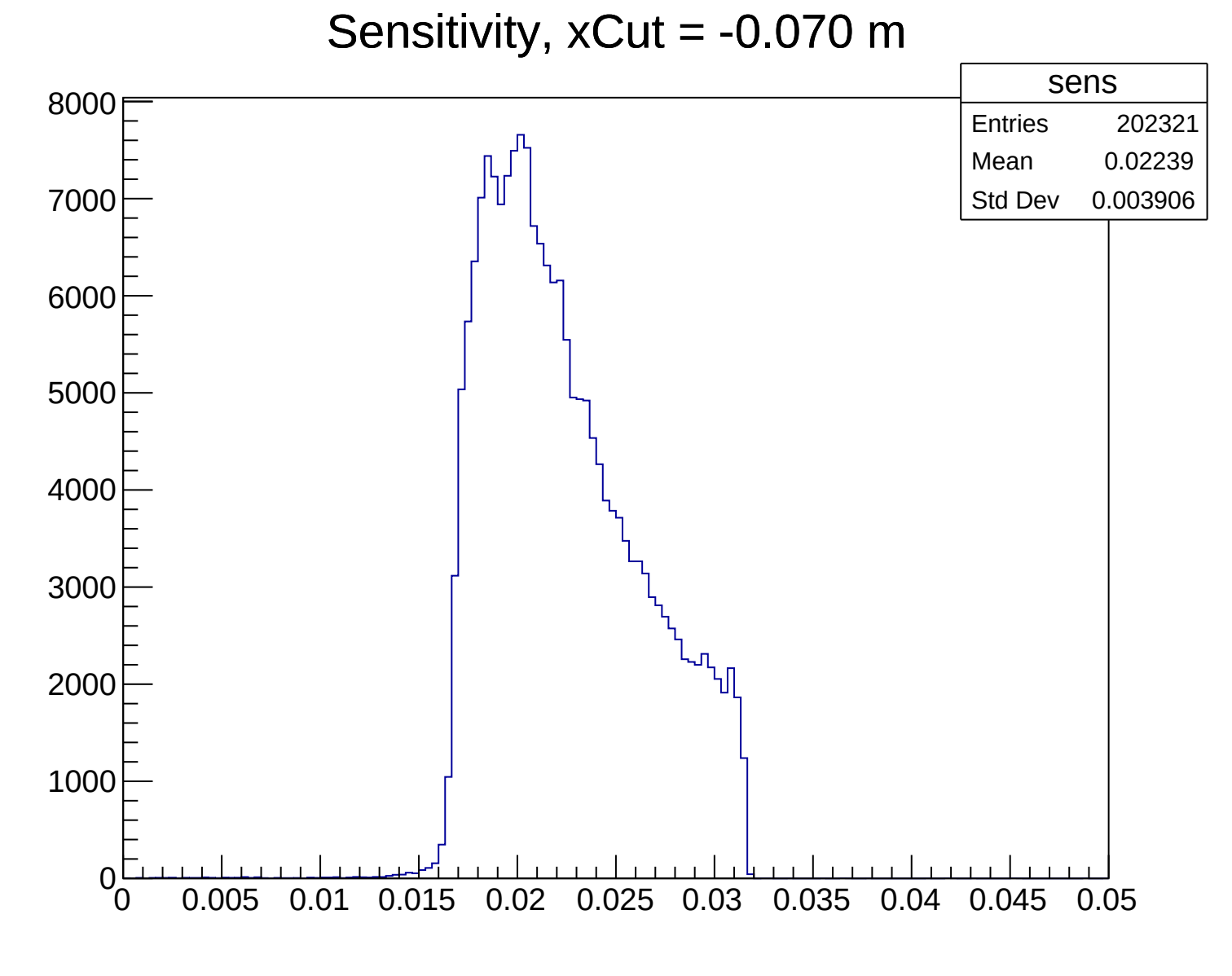

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

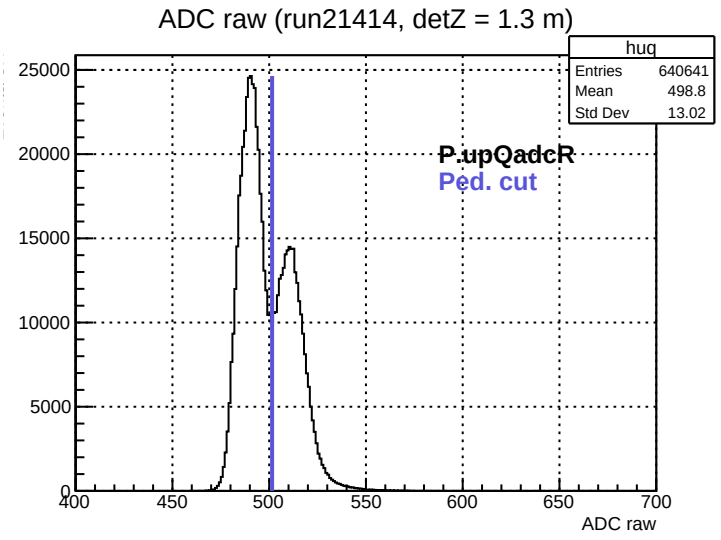

θlab (deg), xCut = -0.070 m
Theta
Entries 202321
Mean 4.801
Std Dev 0.4567
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

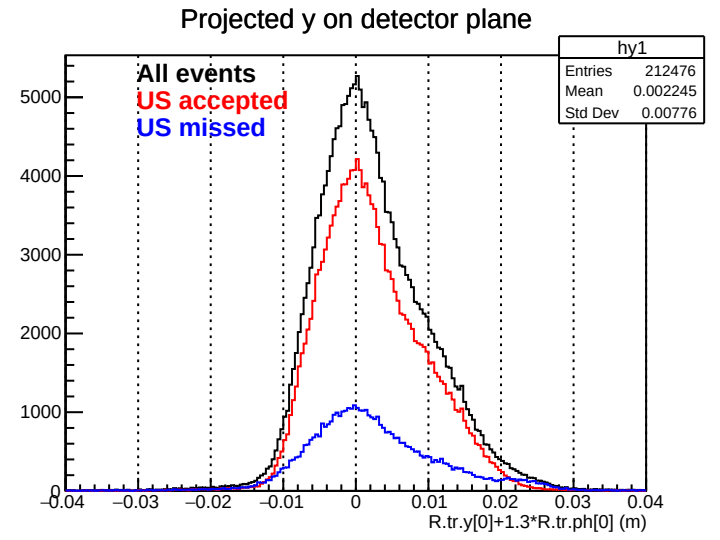

Asymmetry (ppm), xCut = -0.070 m
Asym
Entries 202321
Mean 0.5713
Std Dev 0.08703
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

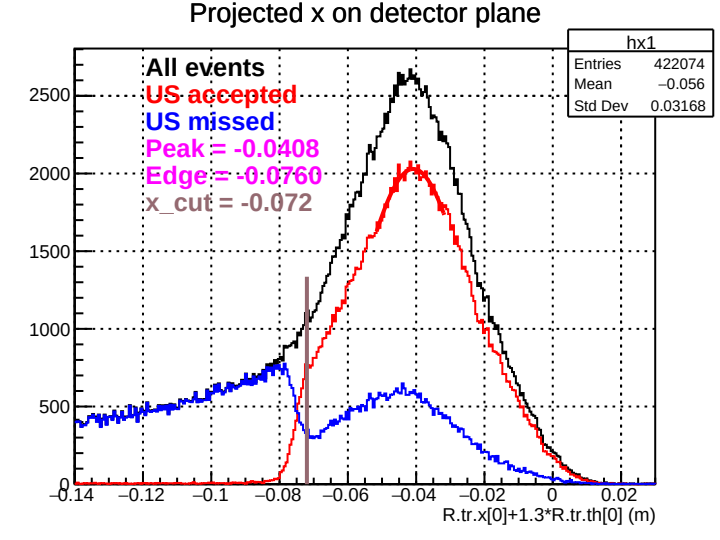

Stretched Asym. (ppm), xCut = -0.070 m
SAsym
Entries 202321
Mean 0.5582
Std Dev 0.08329
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

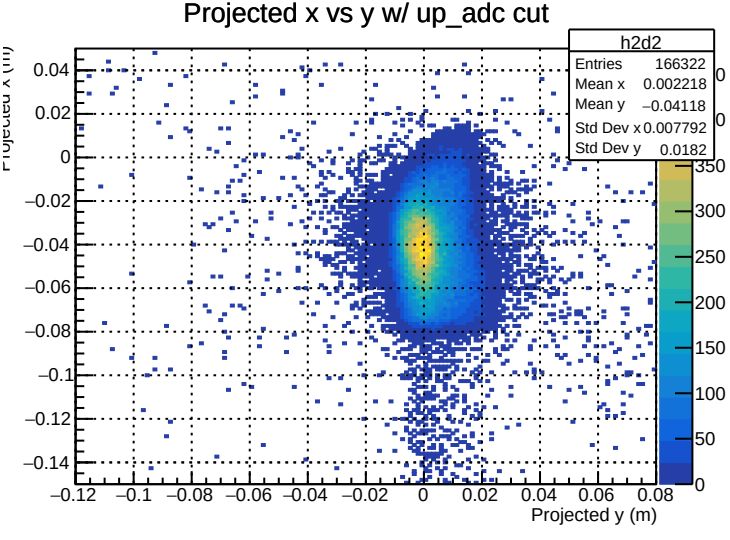

Q^2 (GeV/c)^2, xCut = -0.070 m
Q2
Entries 202321
Mean 0.006369
Std Dev 0.001237
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

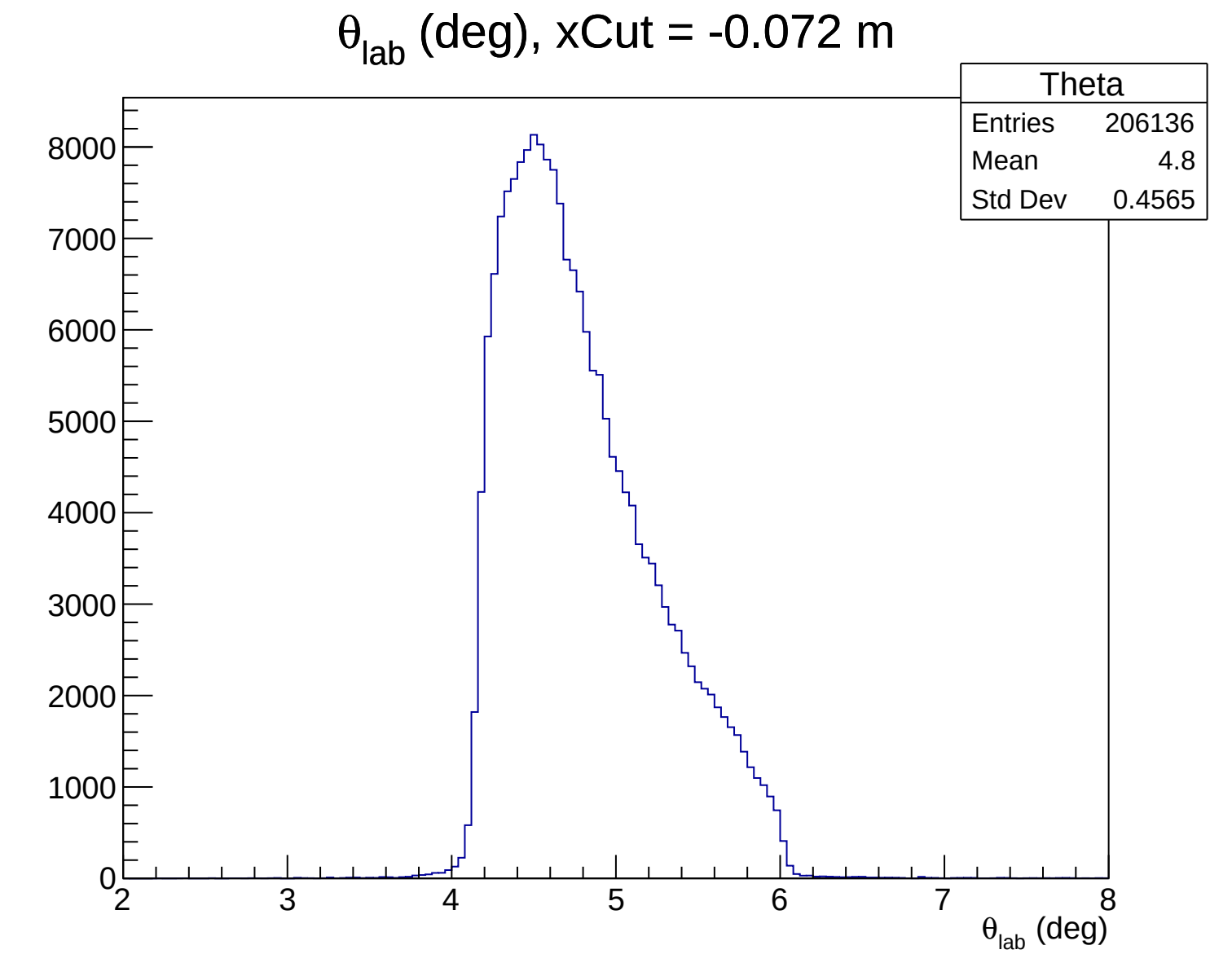

Sensitivity, xCut = -0.070 m
sens
Entries 202321
Mean 0.02239
Std Dev 0.003906
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

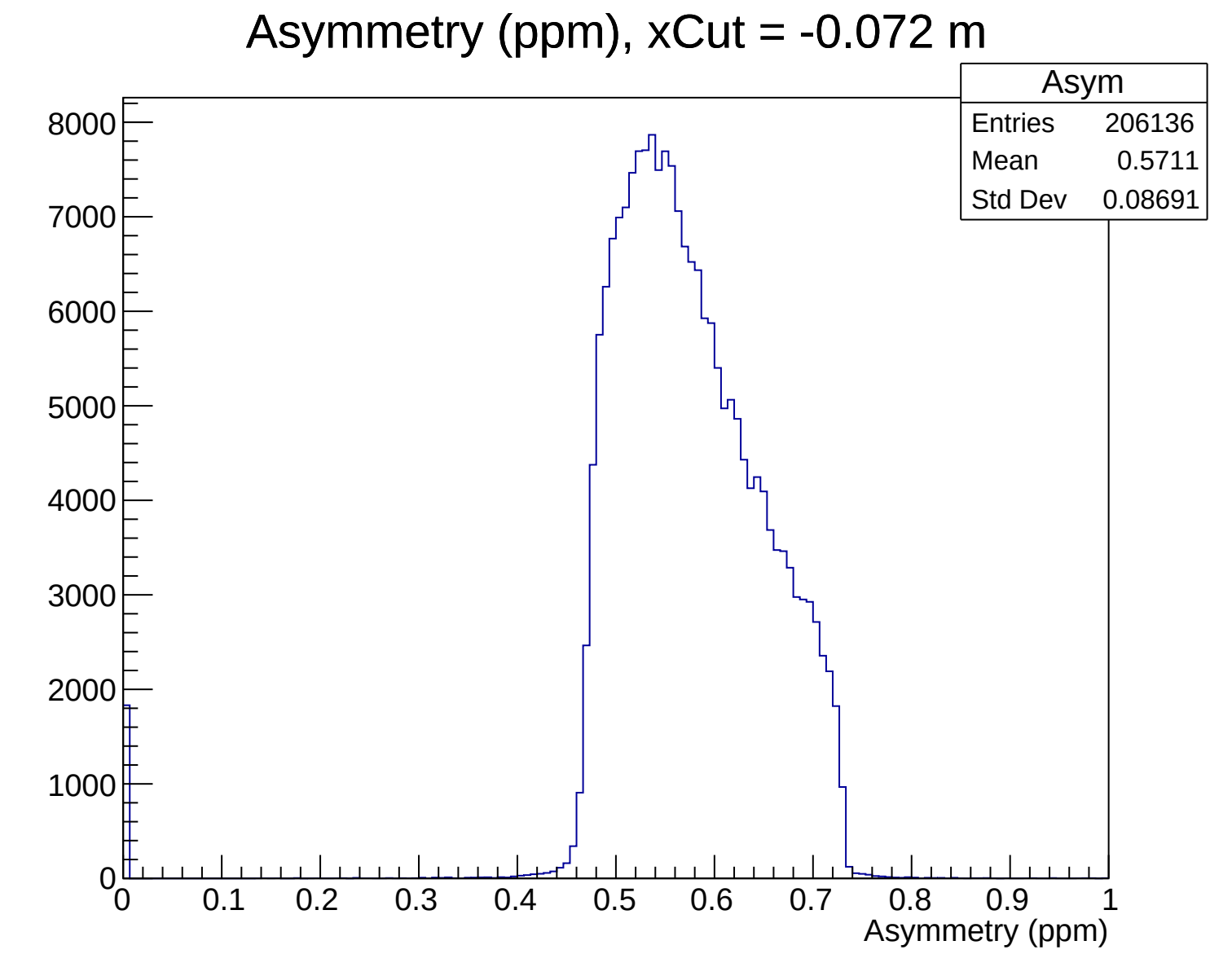

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

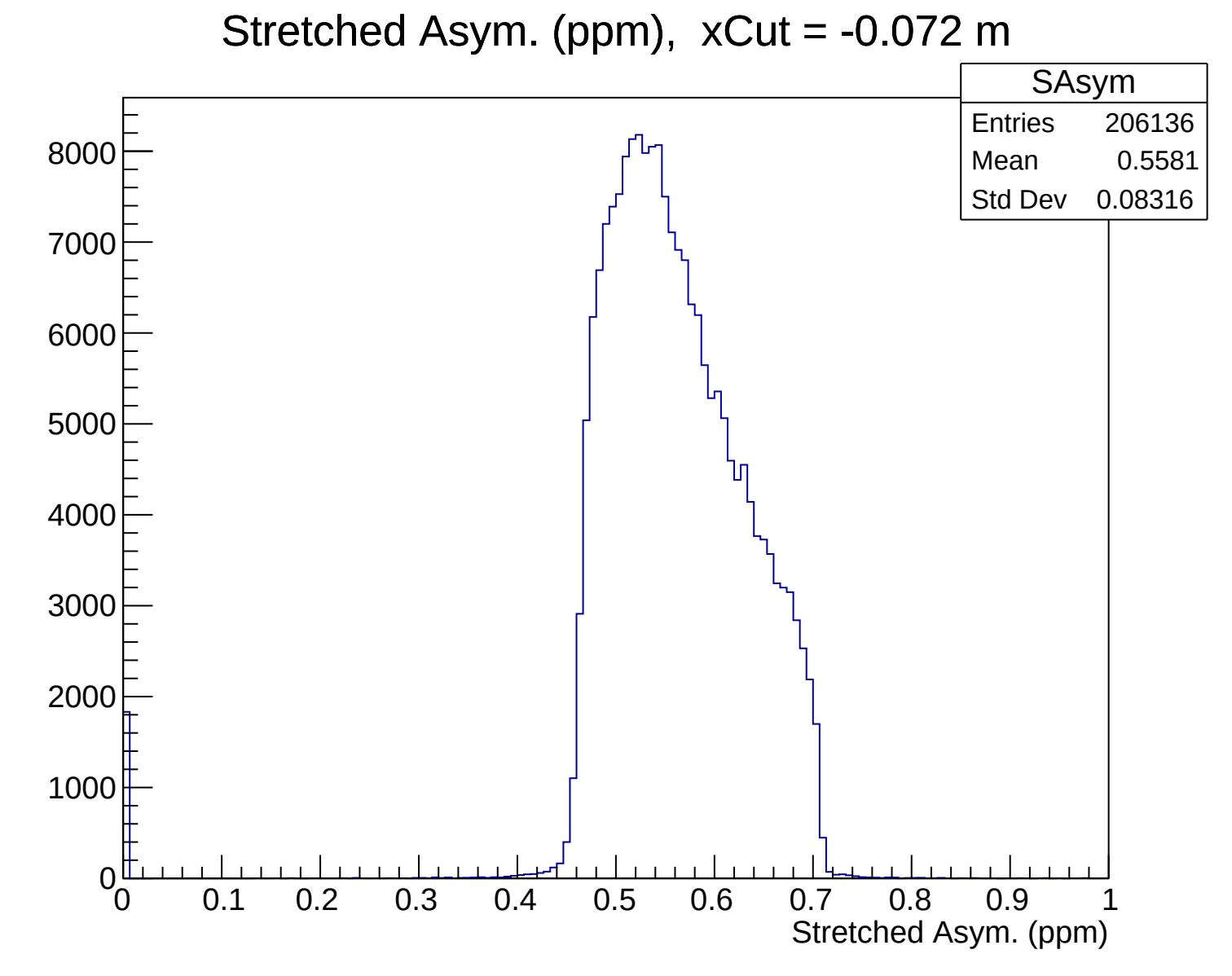

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

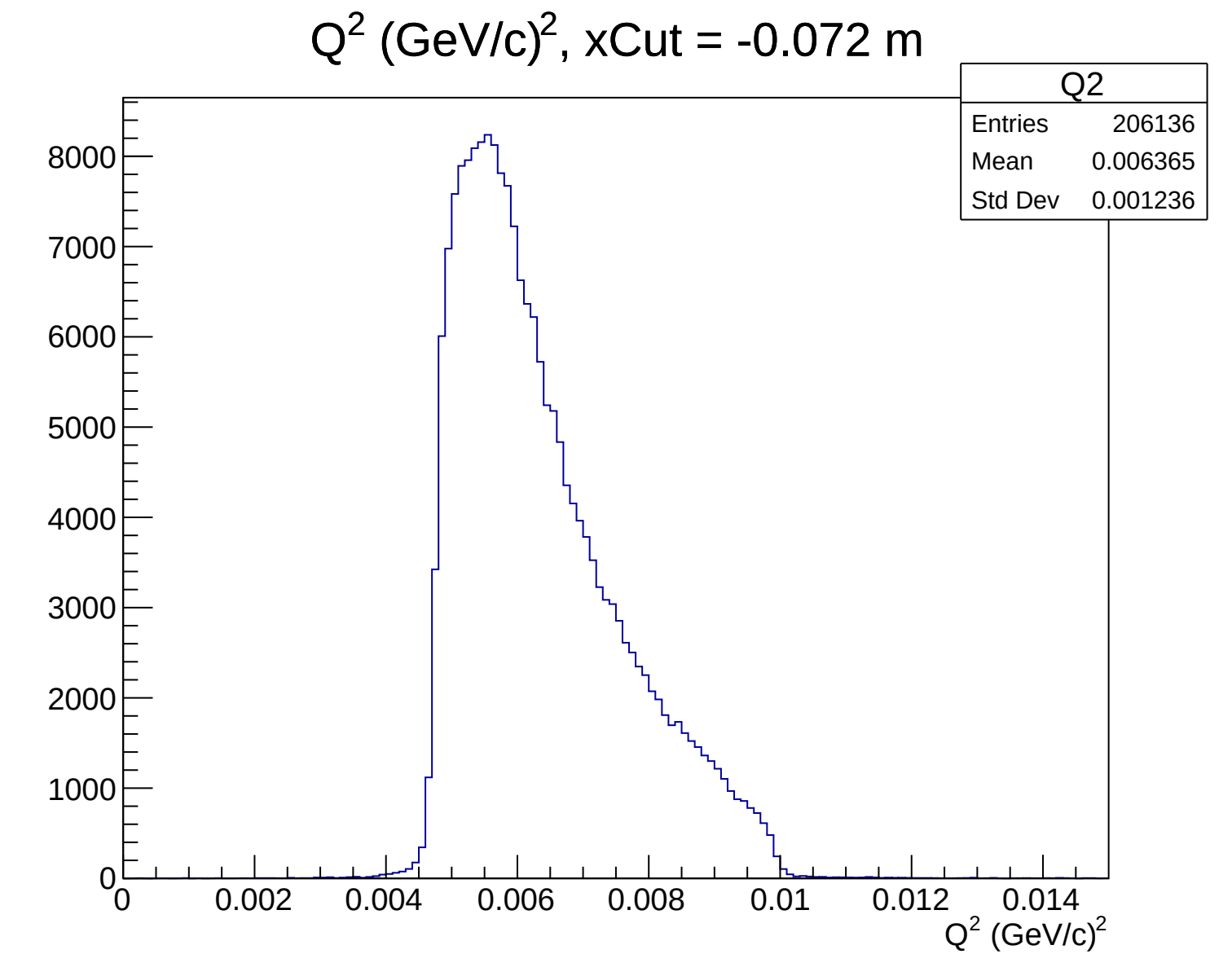

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.072
R.tr.x[0]+1.3*R.tr.th[0] (m)

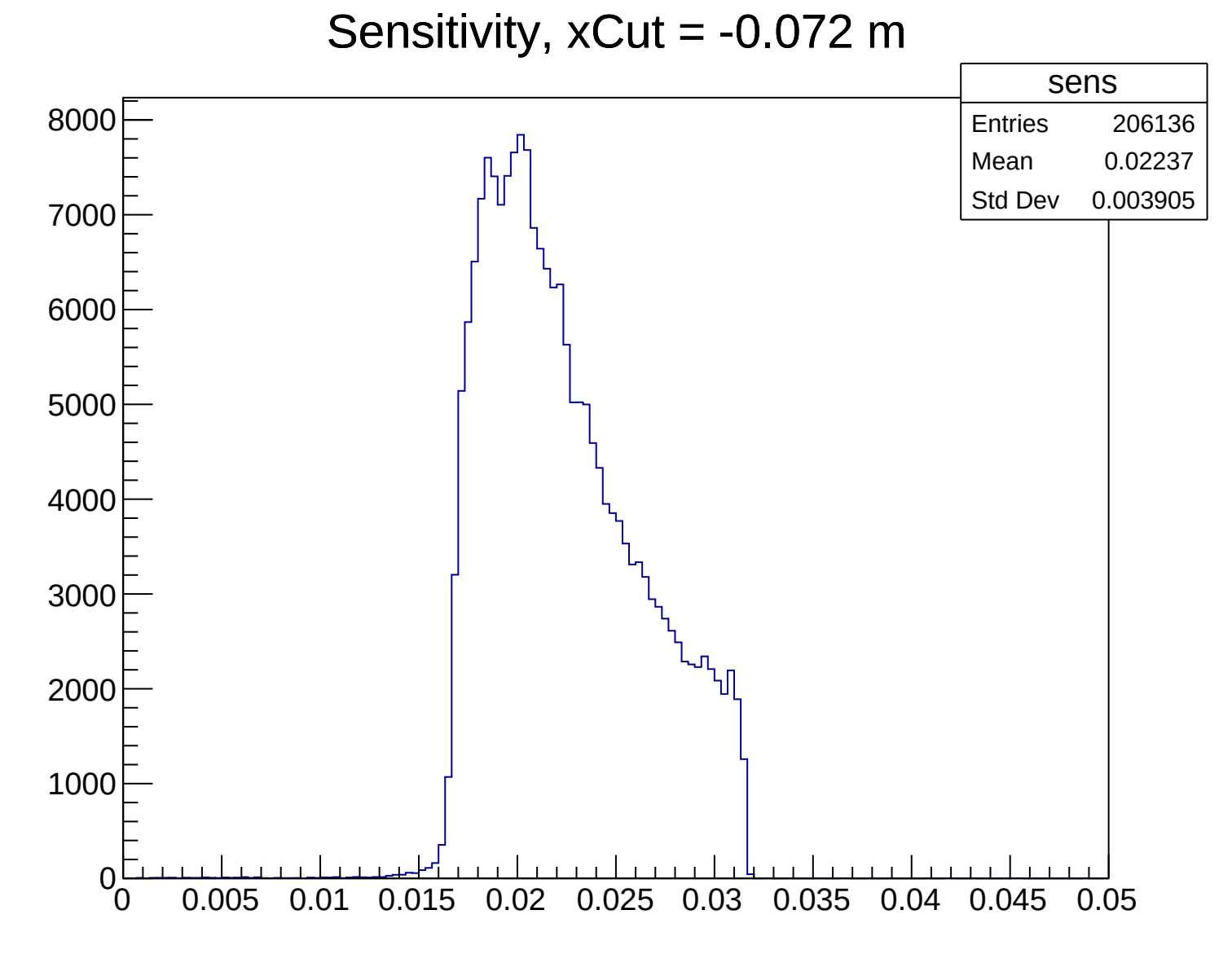

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

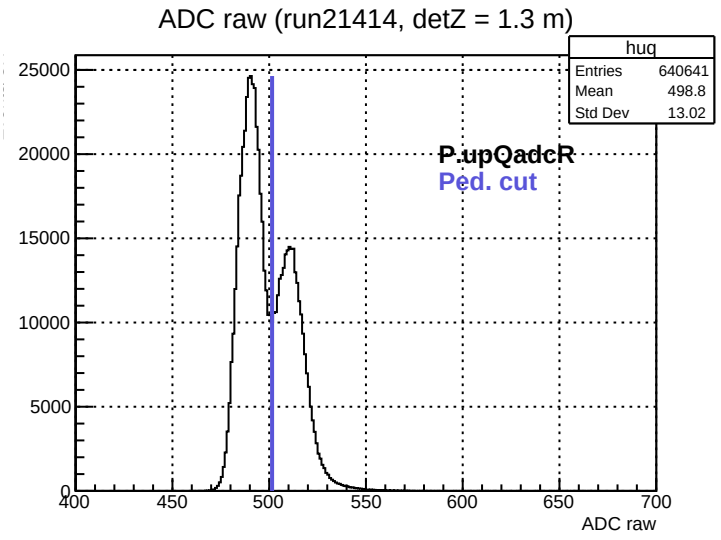

θlab (deg), xCut = -0.072 m
Theta
Entries 206136
Mean 4.8
Std Dev 0.4565
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

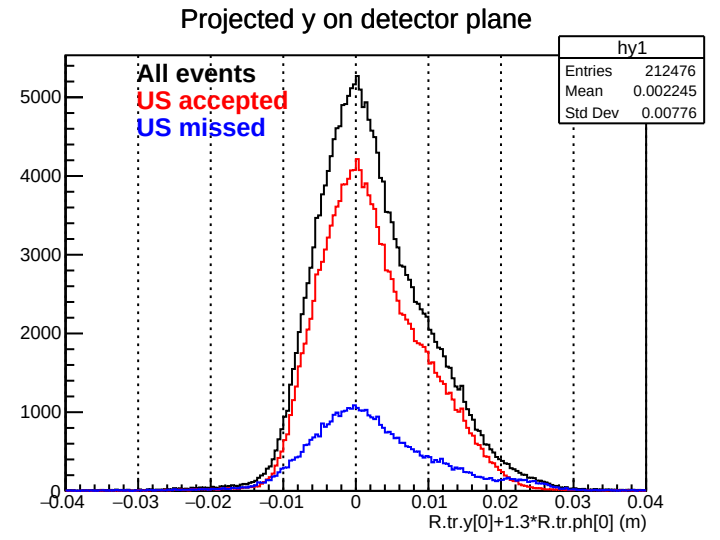

Asymmetry (ppm), xCut = -0.072 m
Asym
Entries 206136
Mean 0.5711
Std Dev 0.08691
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

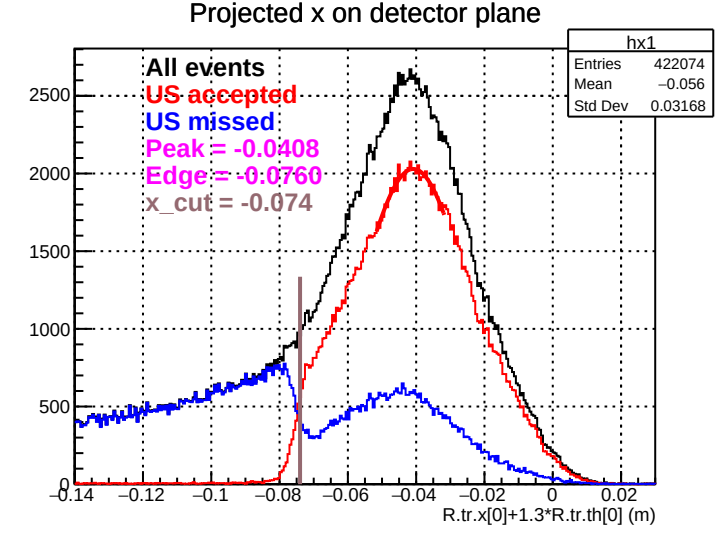

Stretched Asym. (ppm), xCut = -0.072 m
SAsym
Entries 206136
Mean 0.5581
Std Dev 0.08316
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

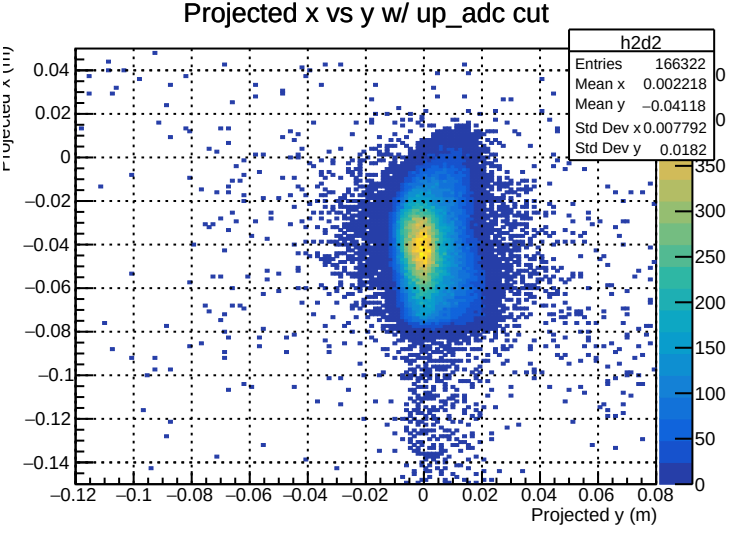

Q^2 (GeV/c)^2, xCut = -0.072 m
Q2
Entries 206136
Mean 0.006365
Std Dev 0.001236
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

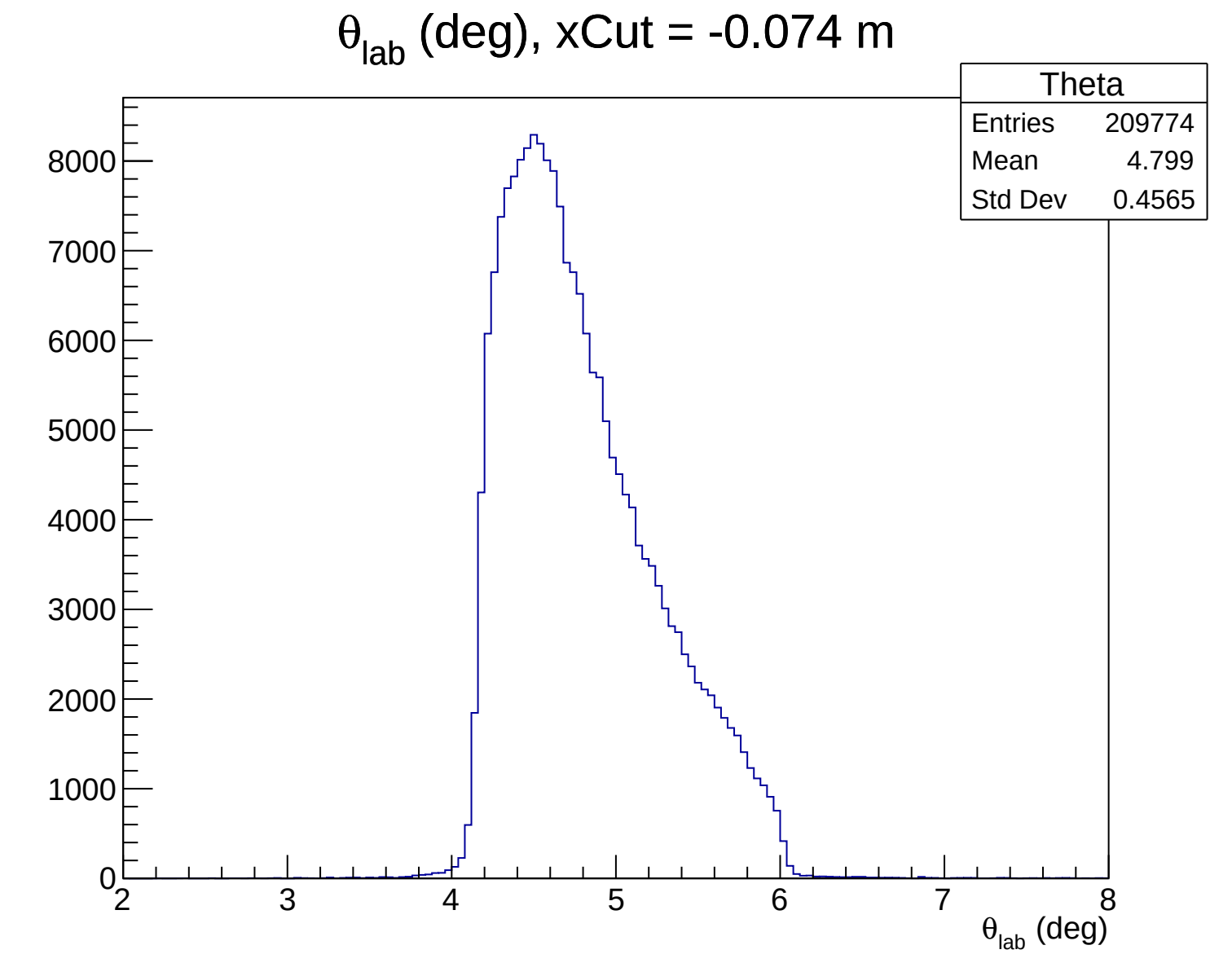

Sensitivity, xCut = -0.072 m
sens
Entries 206136
Mean 0.02237
Std Dev 0.003905
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

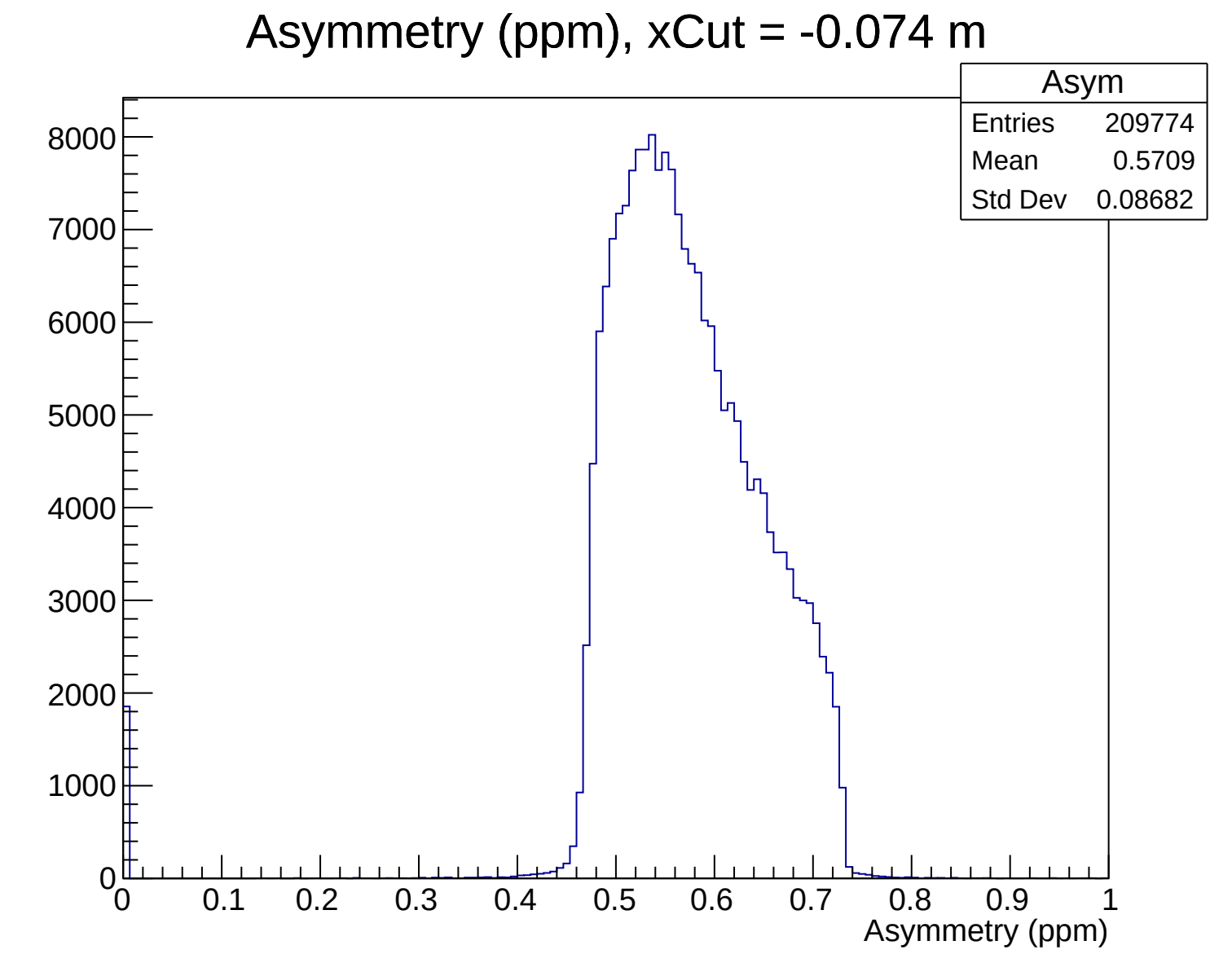

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

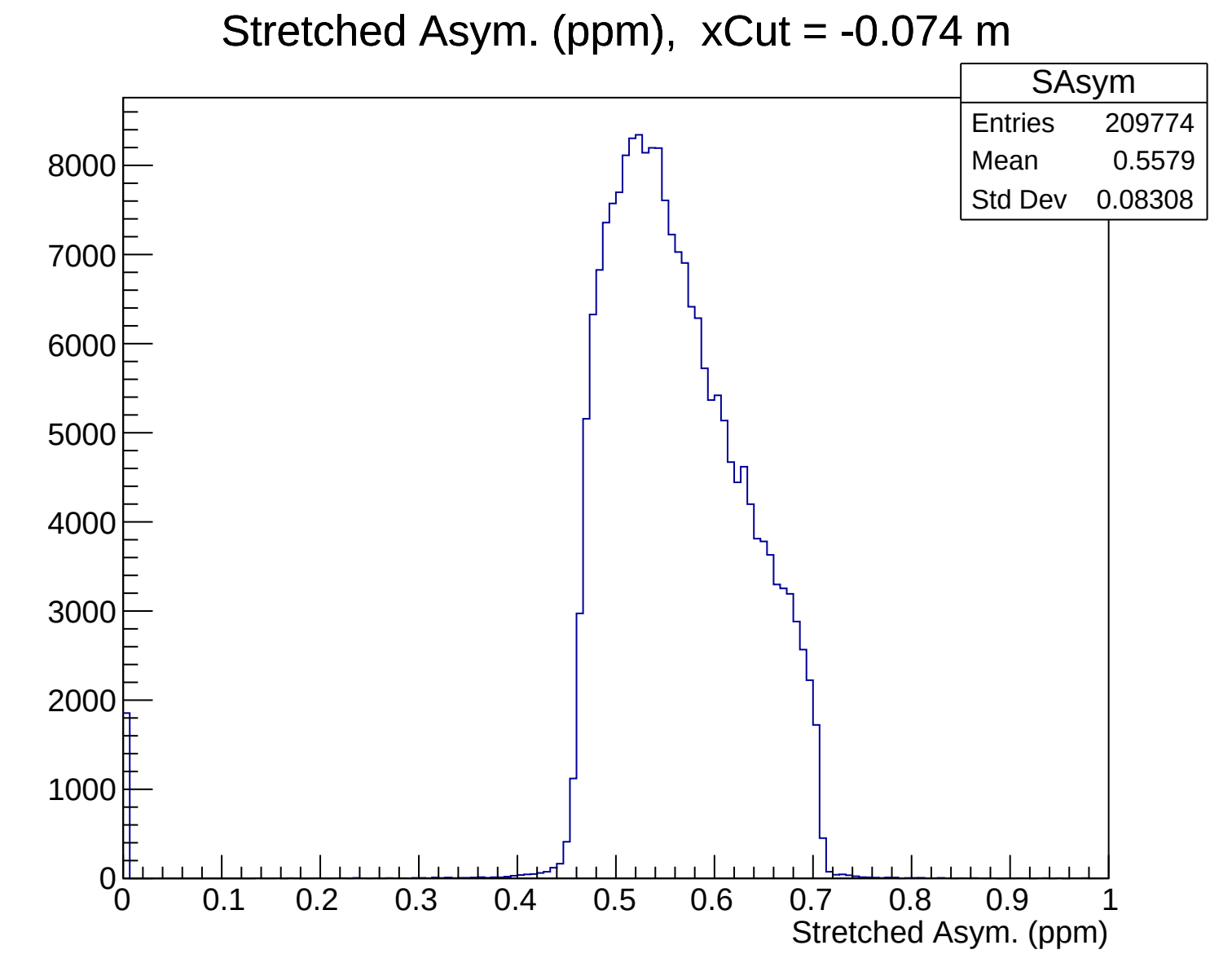

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

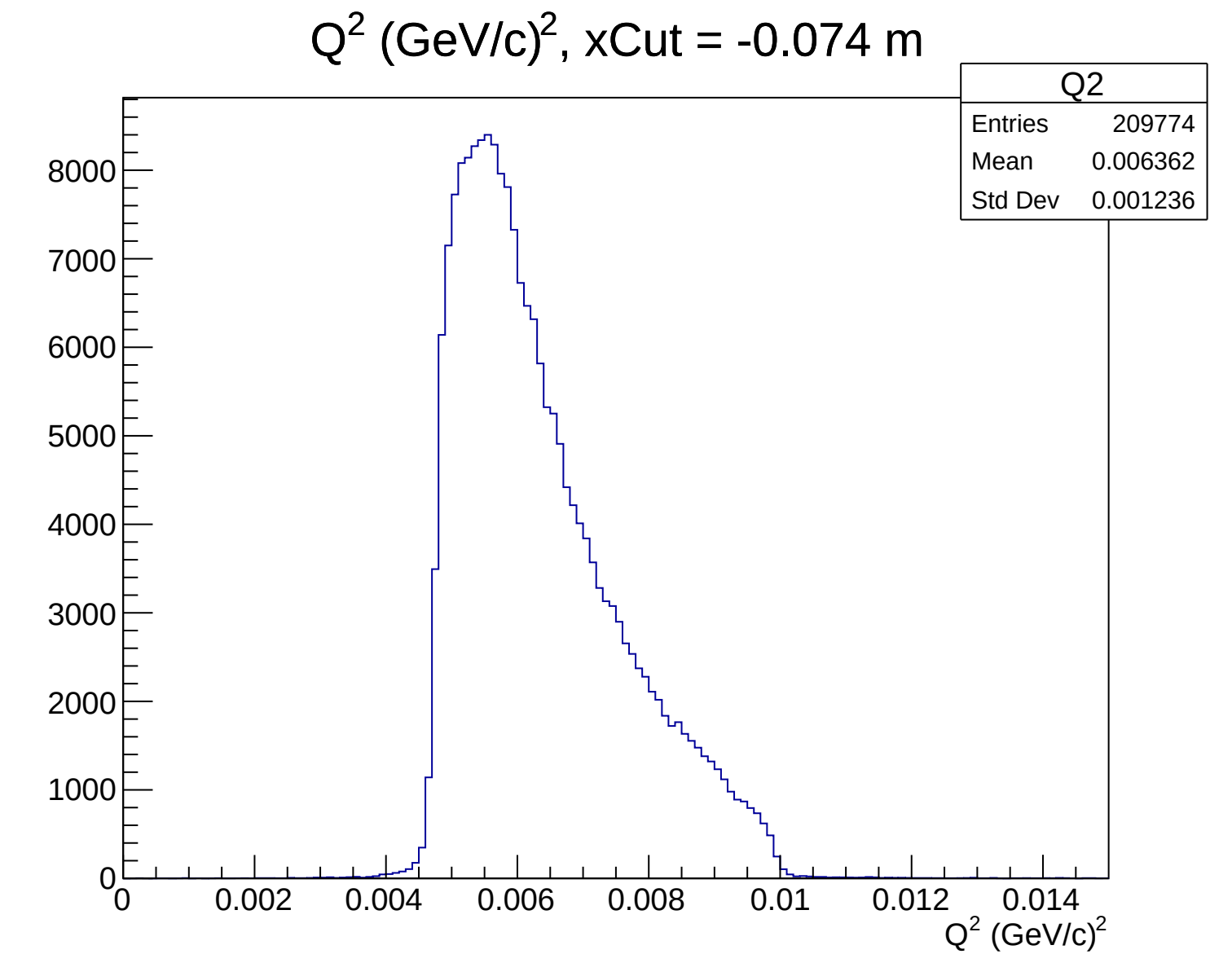

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.074
R.tr.x[0]+1.3*R.tr.th[0] (m)

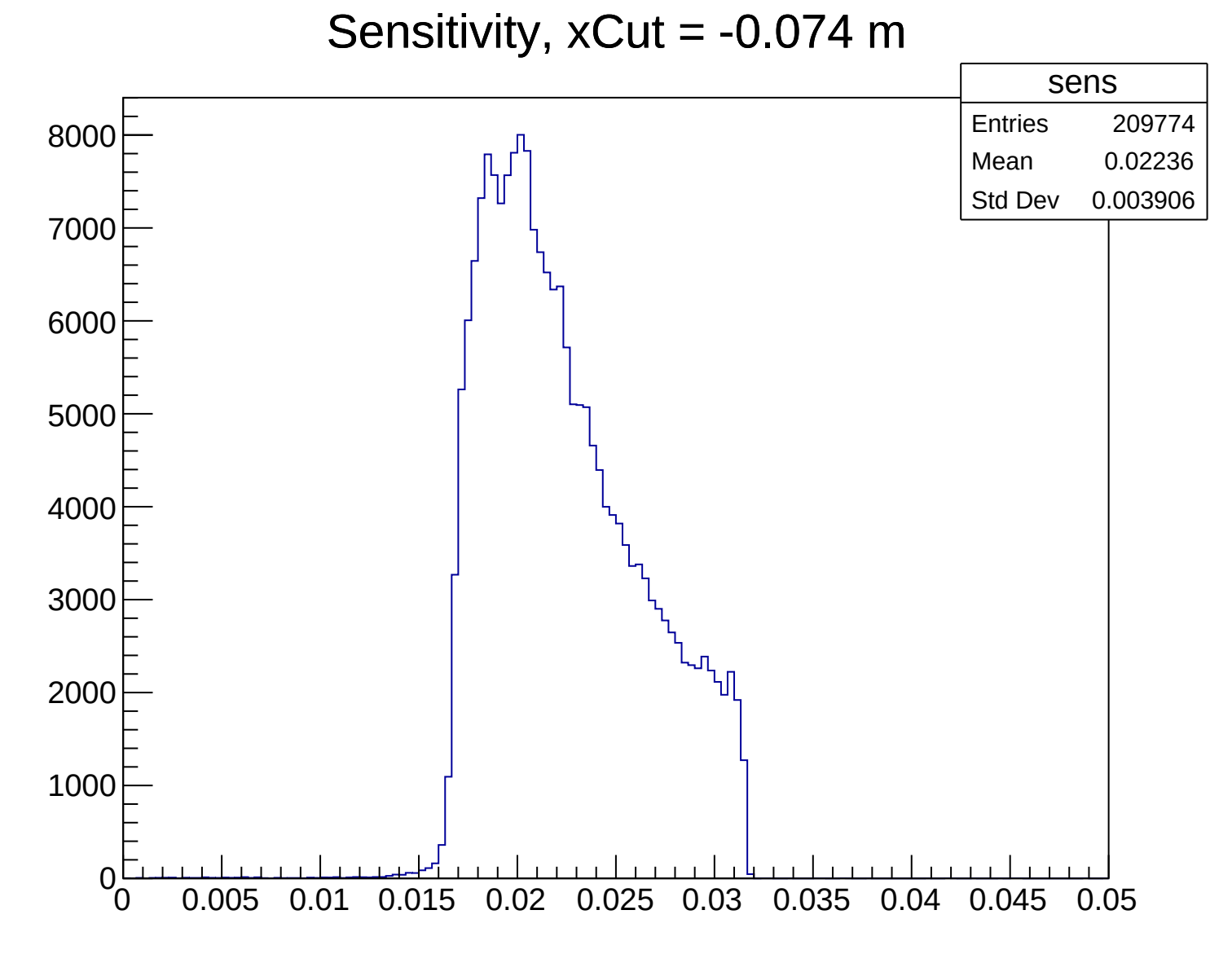

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

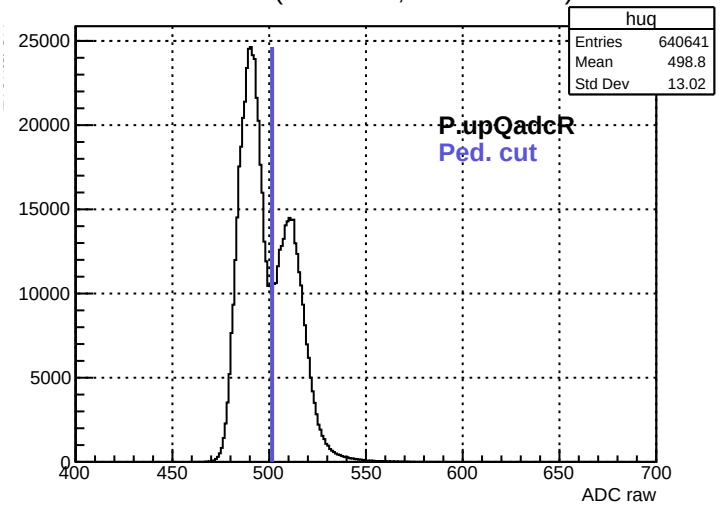

θlab (deg), xCut = -0.074 m
Theta
Entries 209774
Mean 4.799
Std Dev 0.4565
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

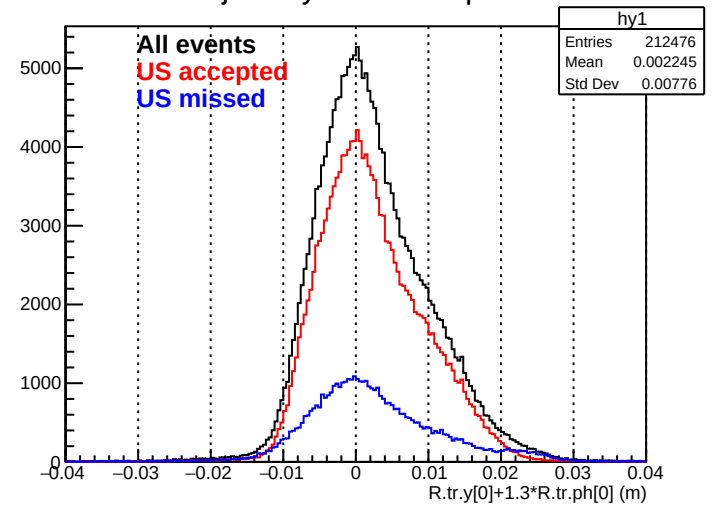

Asymmetry (ppm), xCut = -0.074 m
Asym
Entries 209774
Mean 0.5709
Std Dev 0.08682
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

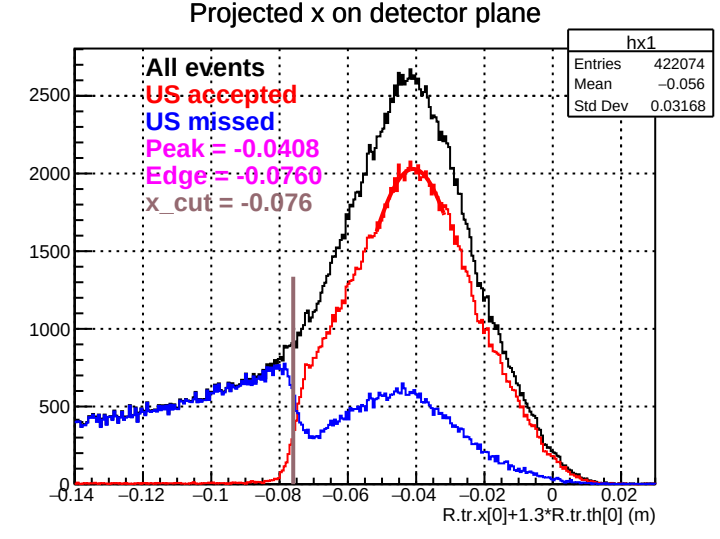

Stretched Asym. (ppm), xCut = -0.074 m
SAsym
Entries 209774
Mean 0.5579
Std Dev 0.08308
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

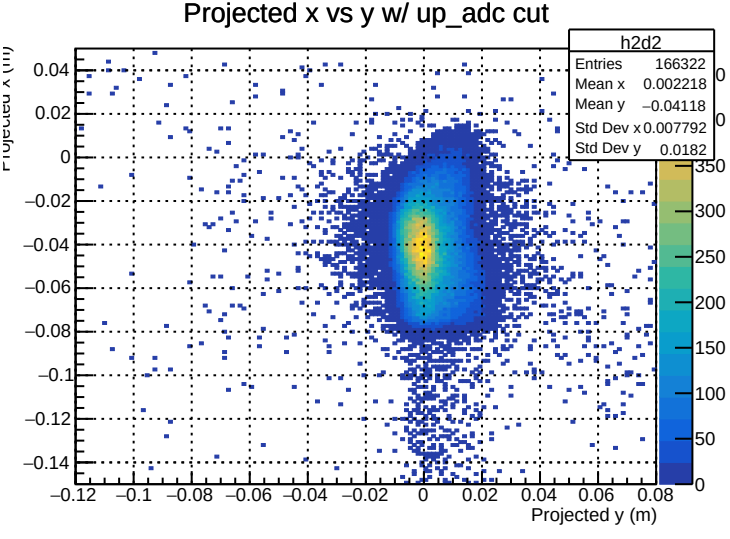

Q^2 (GeV/c)^2, xCut = -0.074 m
Q2
Entries 209774
Mean 0.006362
Std Dev 0.001236
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

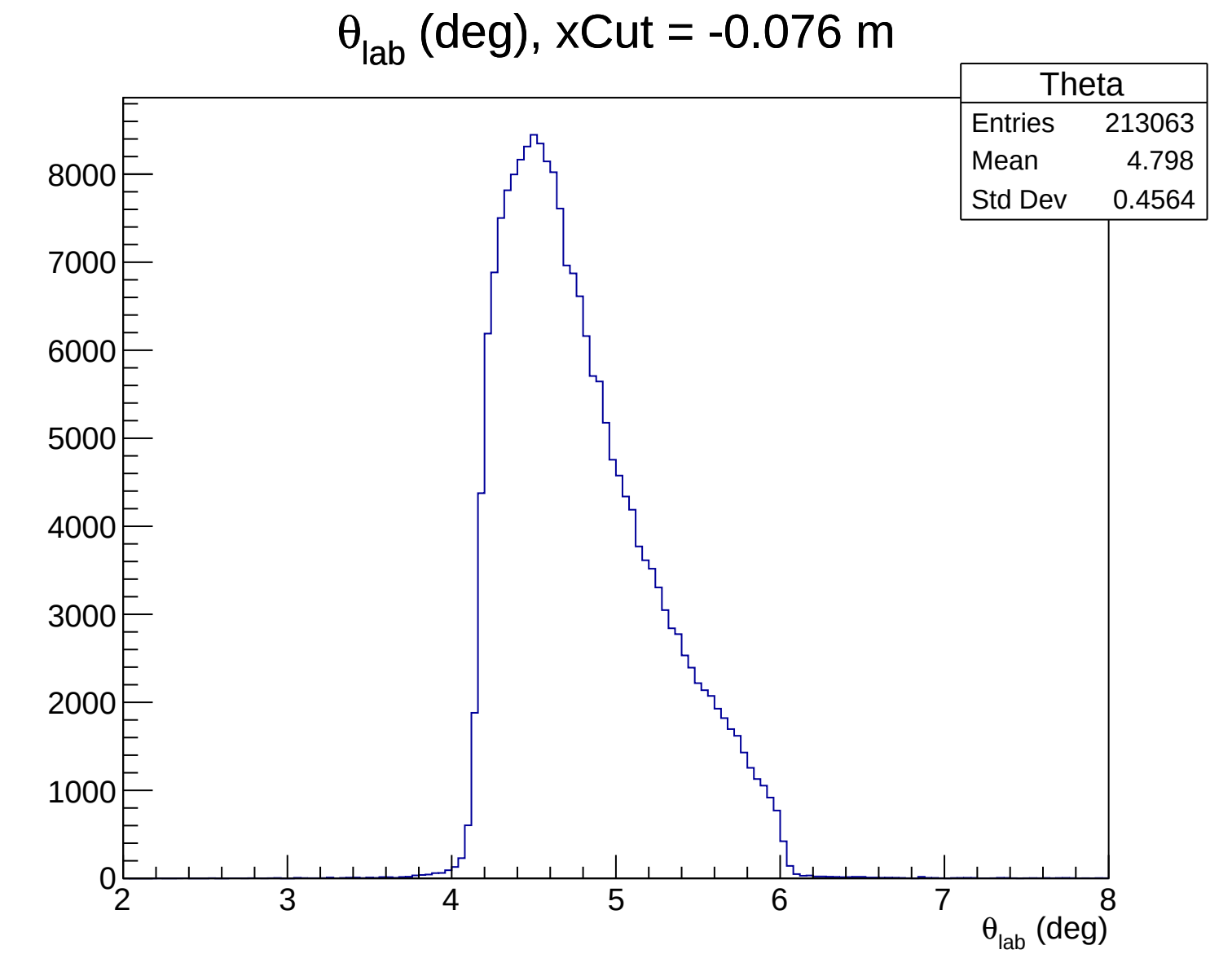

Sensitivity, xCut = -0.074 m
sens
Entries 209774
Mean 0.02236
Std Dev 0.003906
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

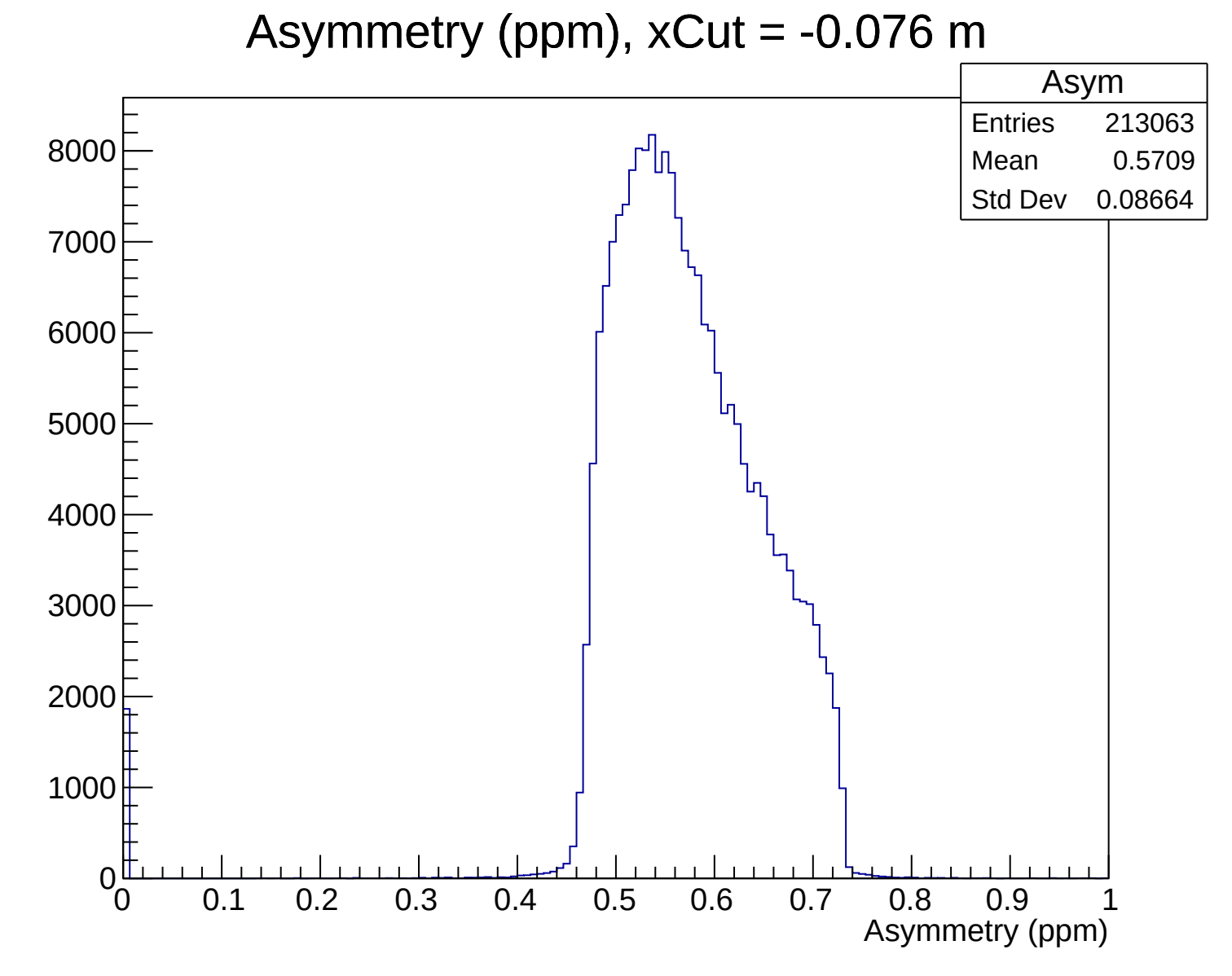

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

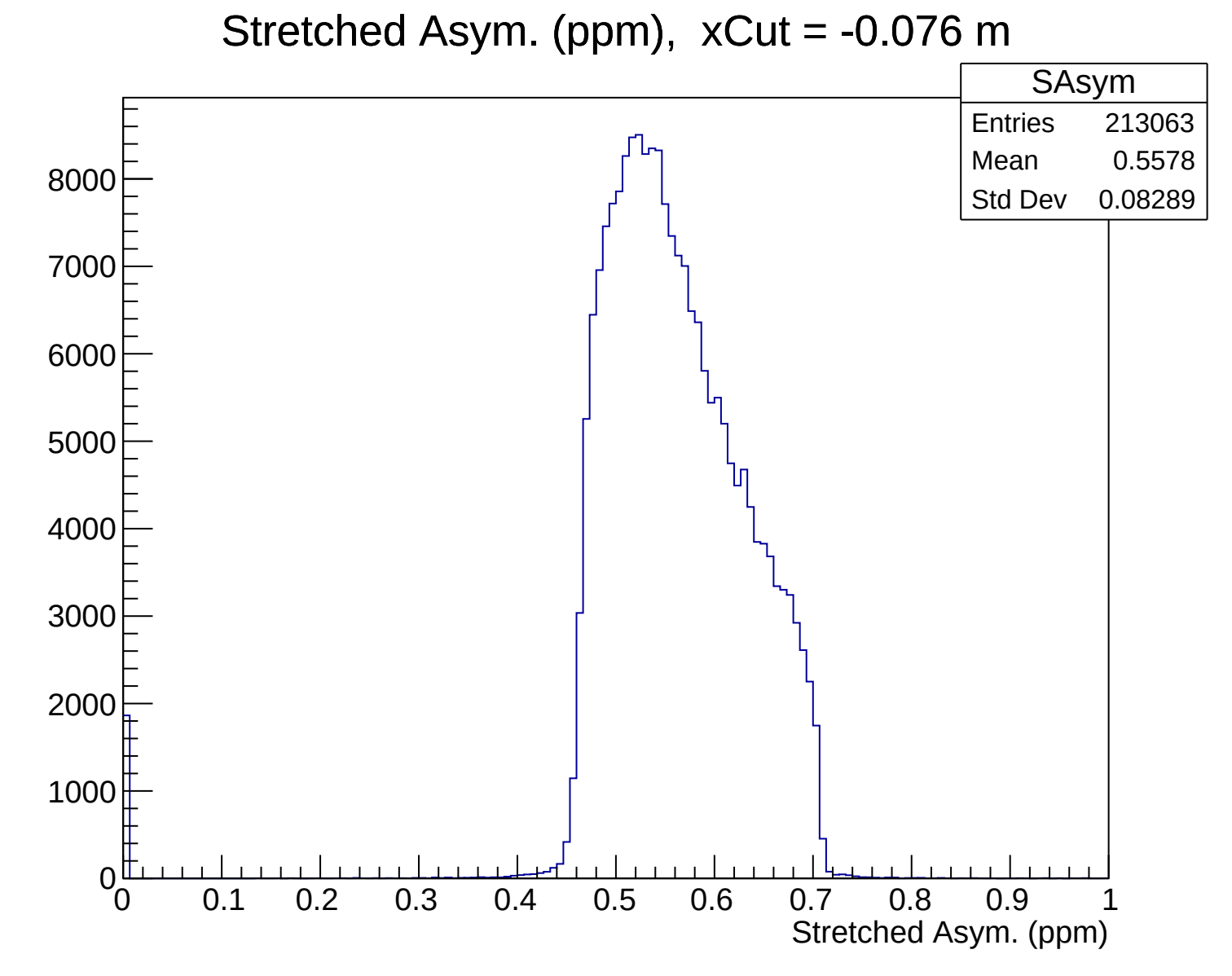

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

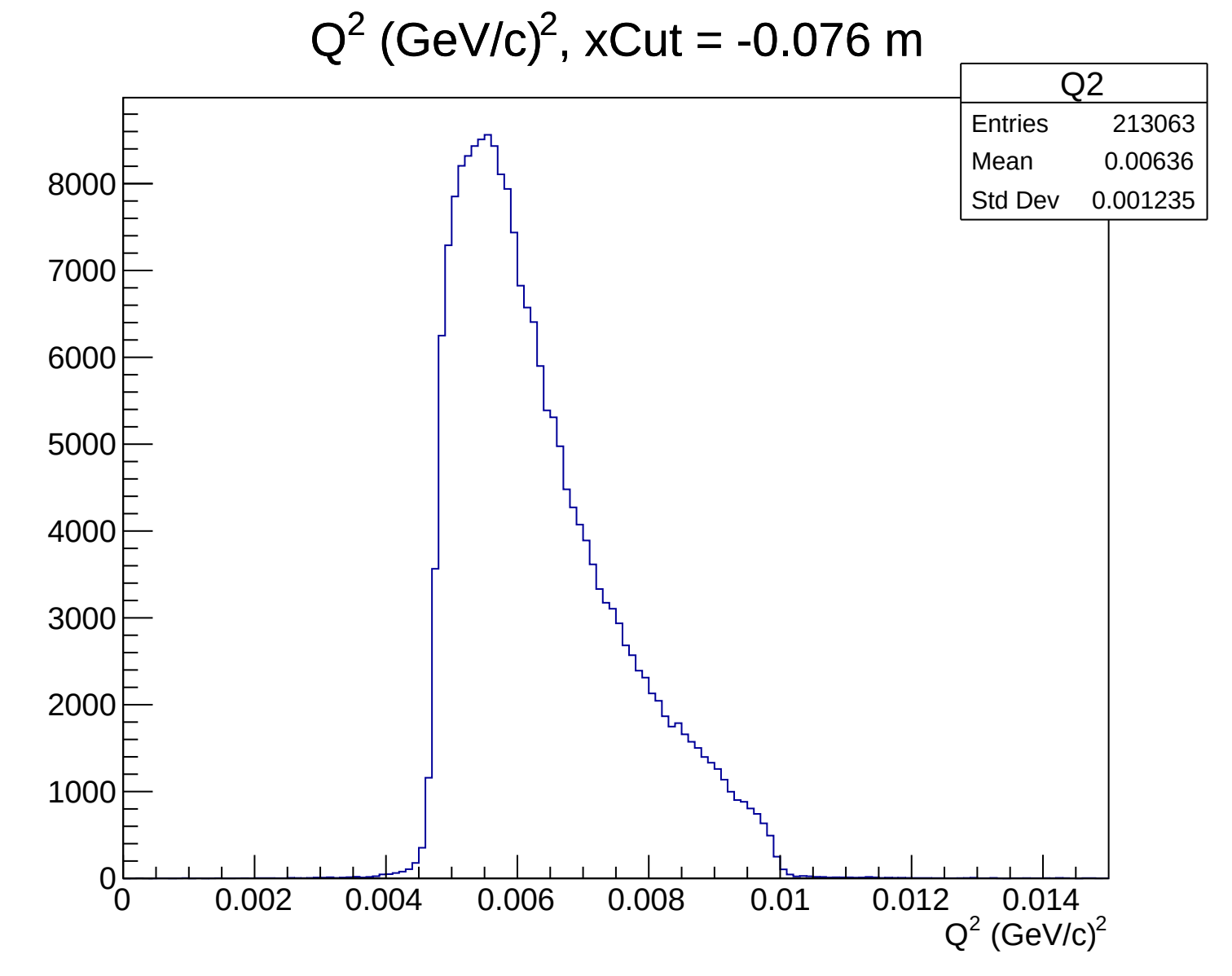

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.076
R.tr.x[0]+1.3*R.tr.th[0] (m)

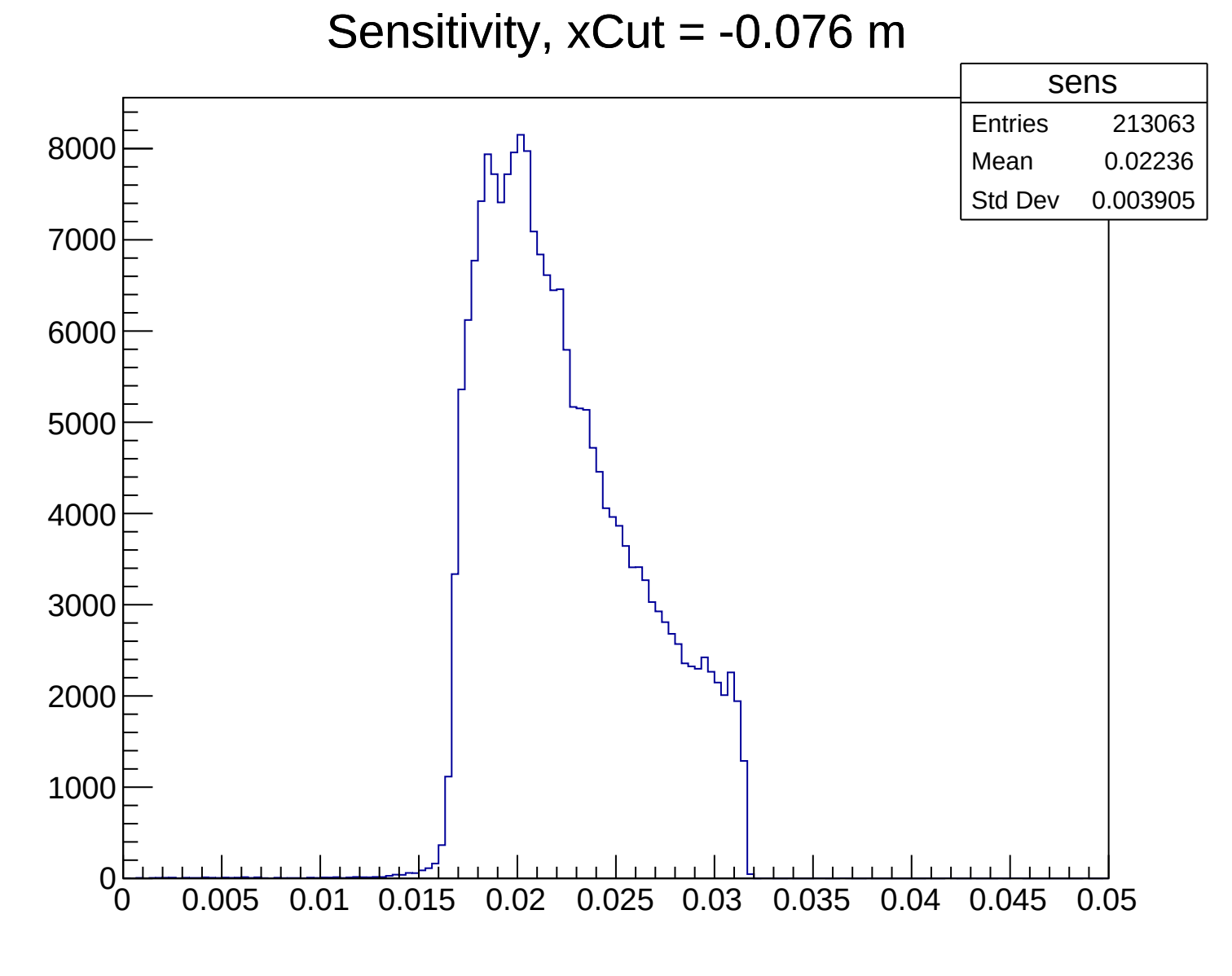

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

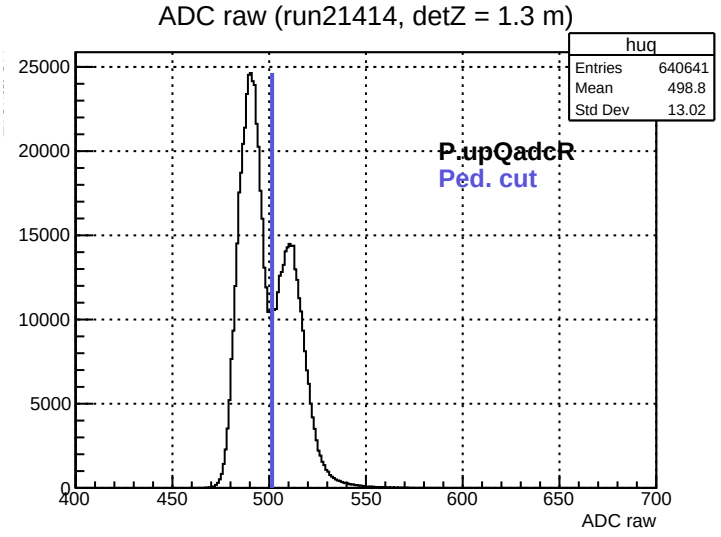

θlab (deg), xCut = -0.076 m
Theta
Entries 213063
Mean 4.798
Std Dev 0.4564
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

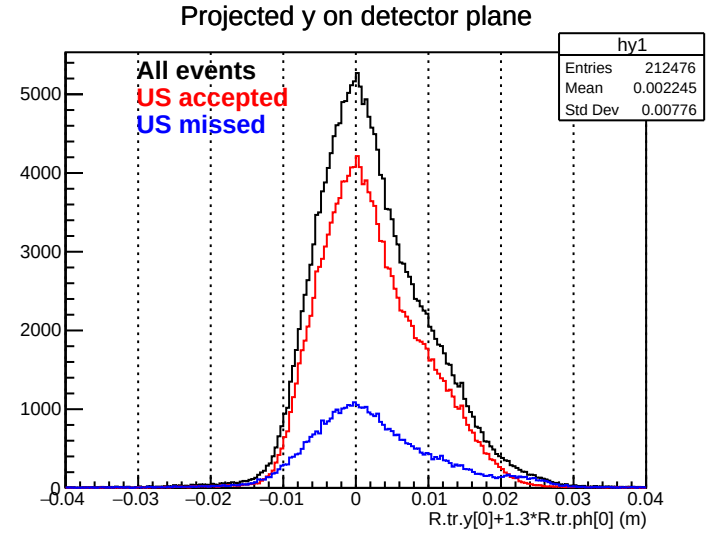

Asymmetry (ppm), xCut = -0.076 m
Asym
Entries 213063
Mean 0.5709
Std Dev 0.08664
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

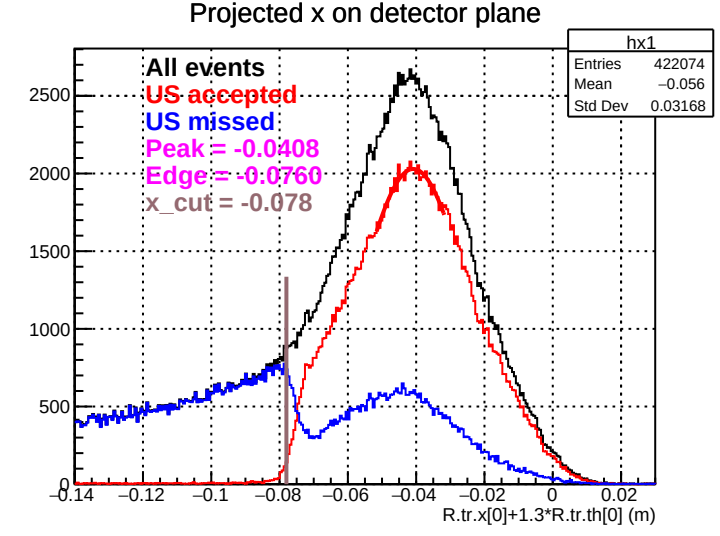

Stretched Asym. (ppm), xCut = -0.076 m
SAsym
Entries 213063
Mean 0.5578
Std Dev 0.08289
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

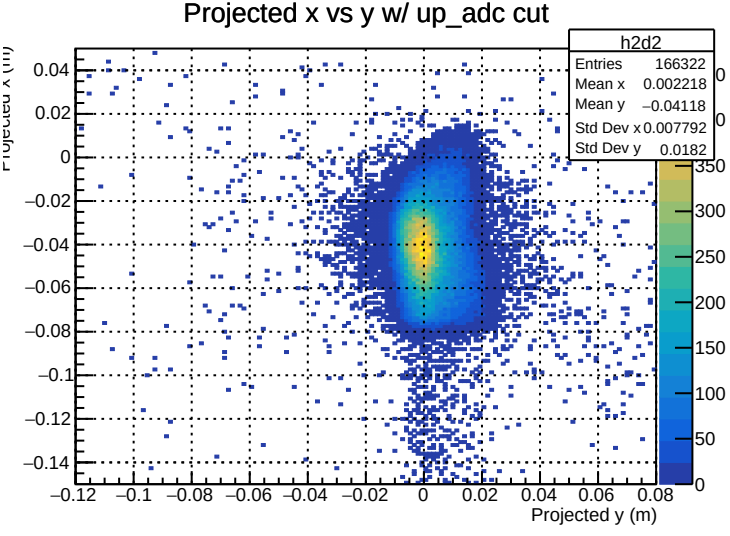

Q^2 (GeV/c)^2, xCut = -0.076 m
Q2
Entries 213063
Mean 0.00636
Std Dev 0.001235
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

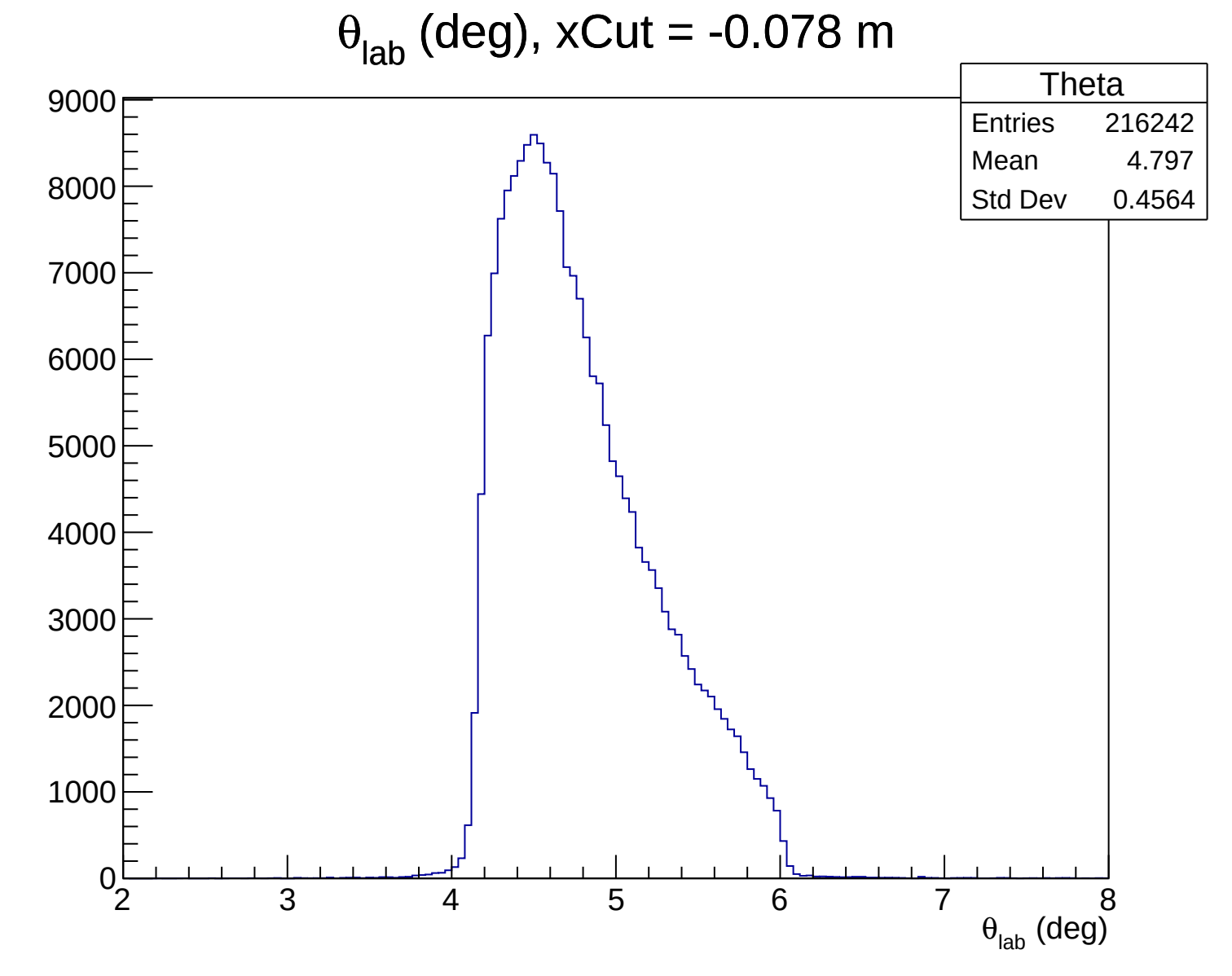

Sensitivity, xCut = -0.076 m
sens
Entries 213063
Mean 0.02236
Std Dev 0.003905
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

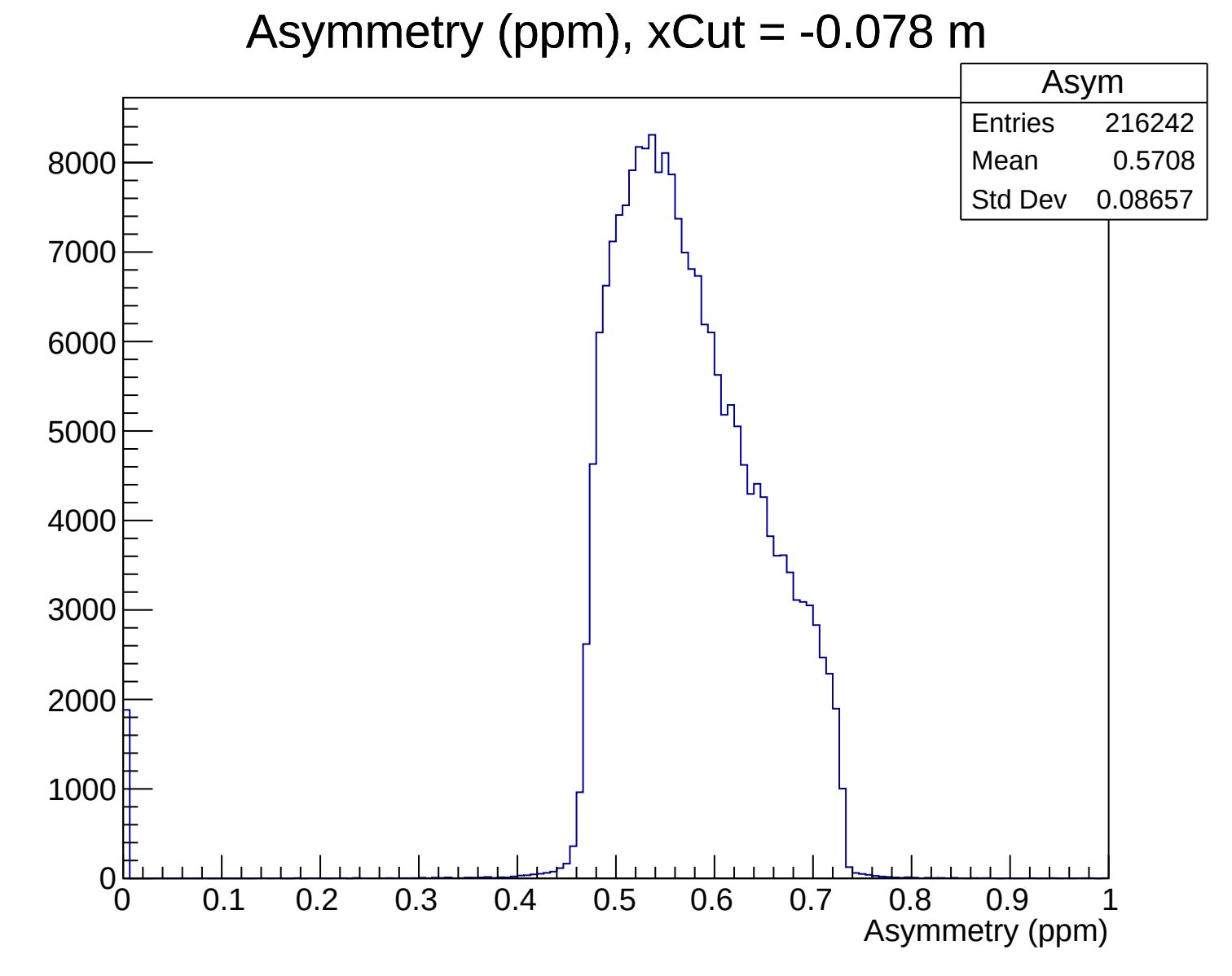

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

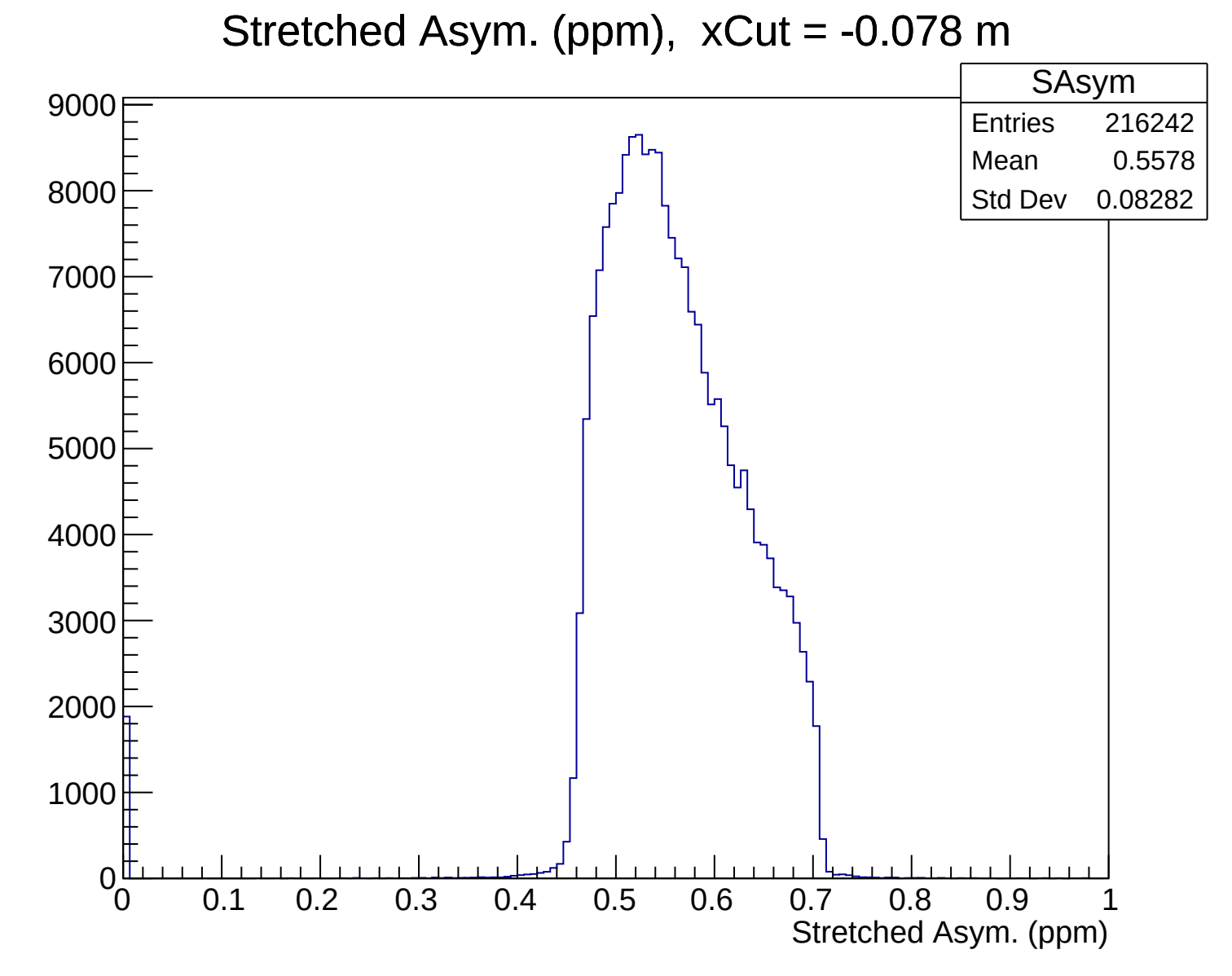

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

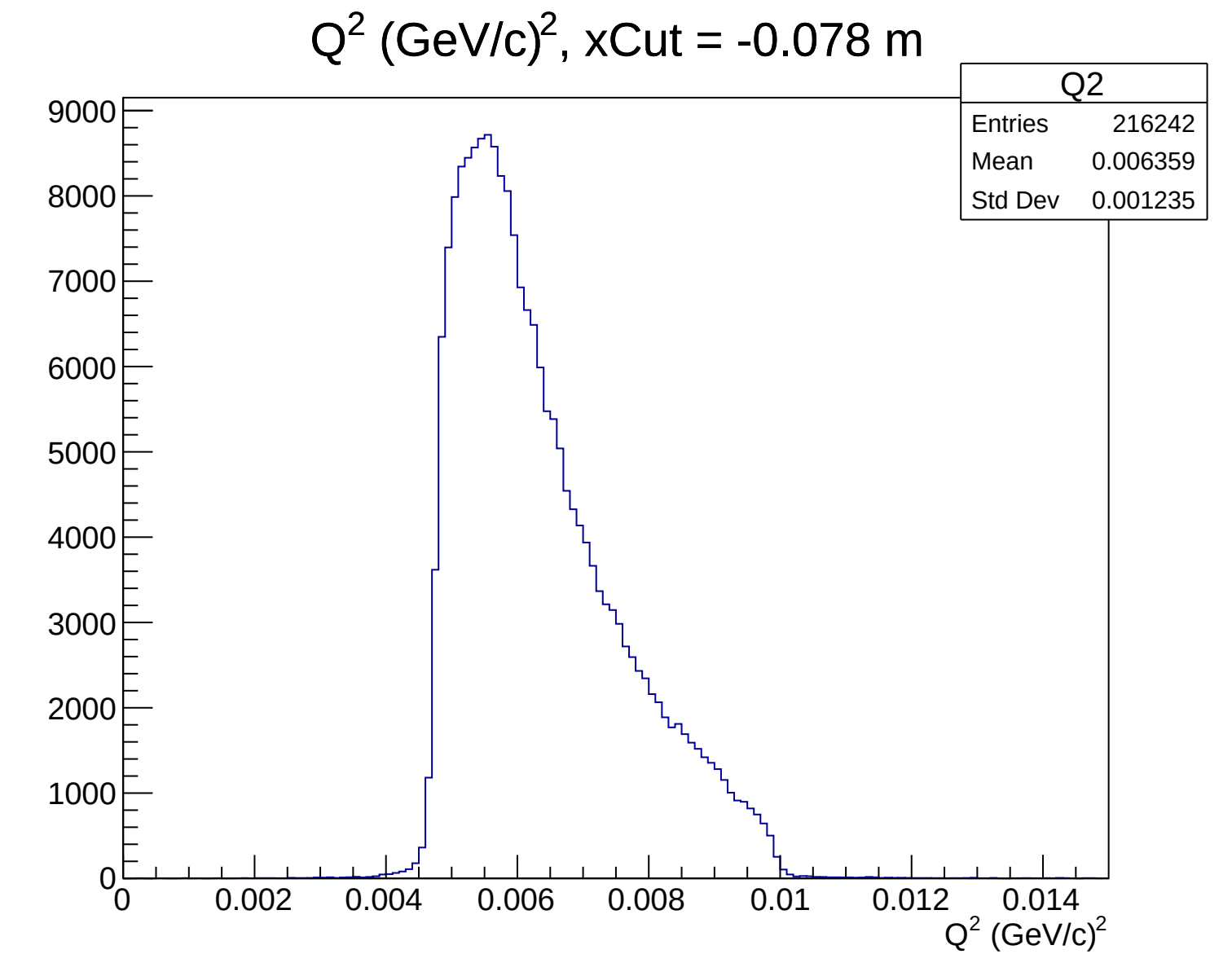

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.078
R.tr.x[0]+1.3*R.tr.th[0] (m)

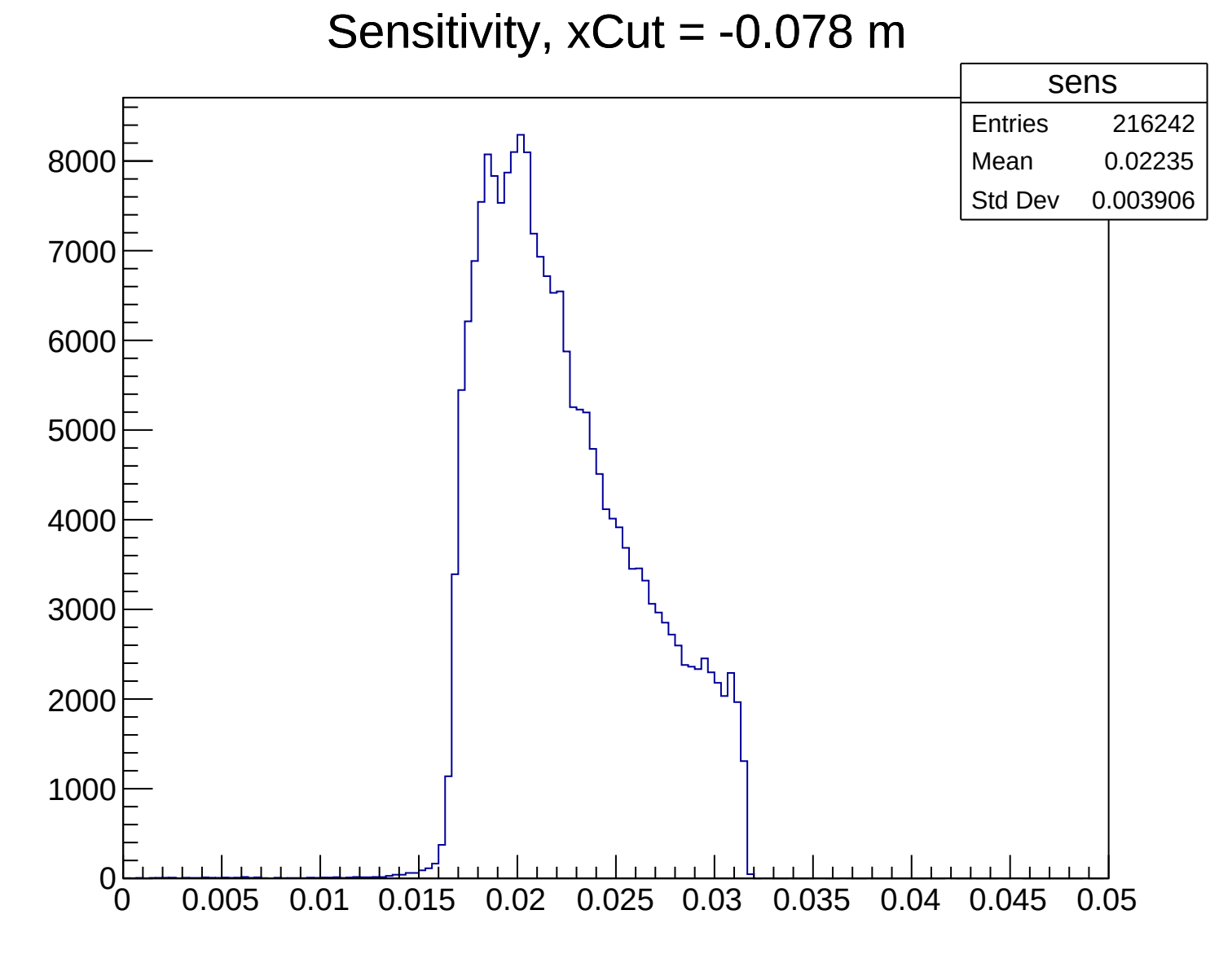

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

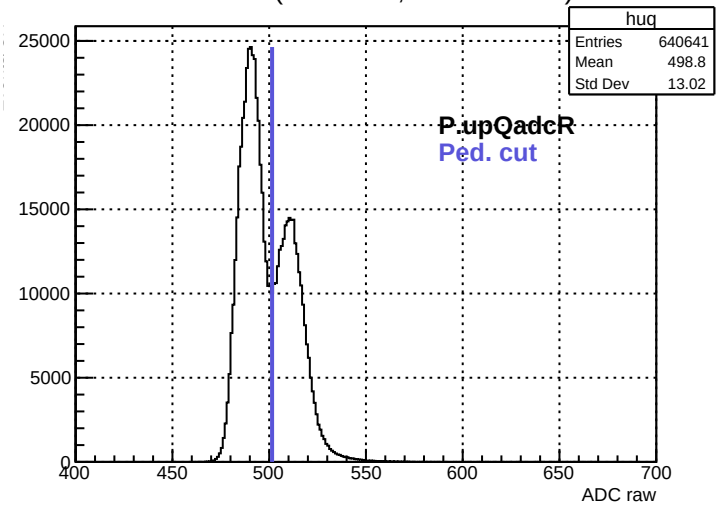

θlab (deg), xCut = -0.078 m
Theta
Entries 216242
Mean 4.797
Std Dev 0.4564
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

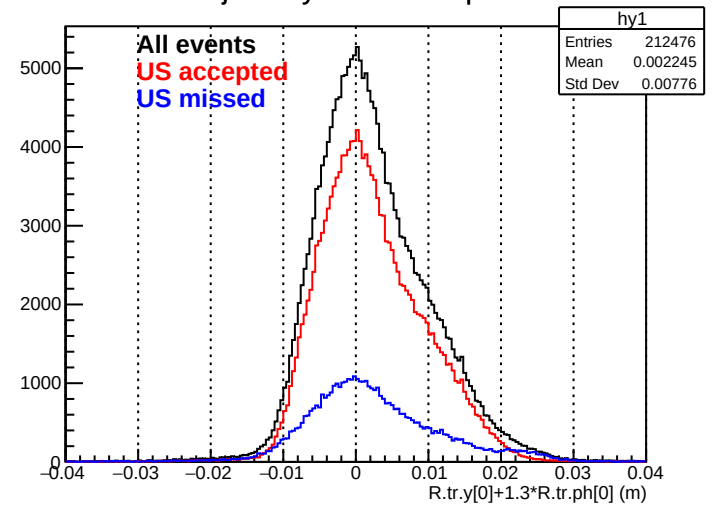

Asymmetry (ppm), xCut = -0.078 m
Asym
Entries 216242
Mean 0.5708
Std Dev 0.08657
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

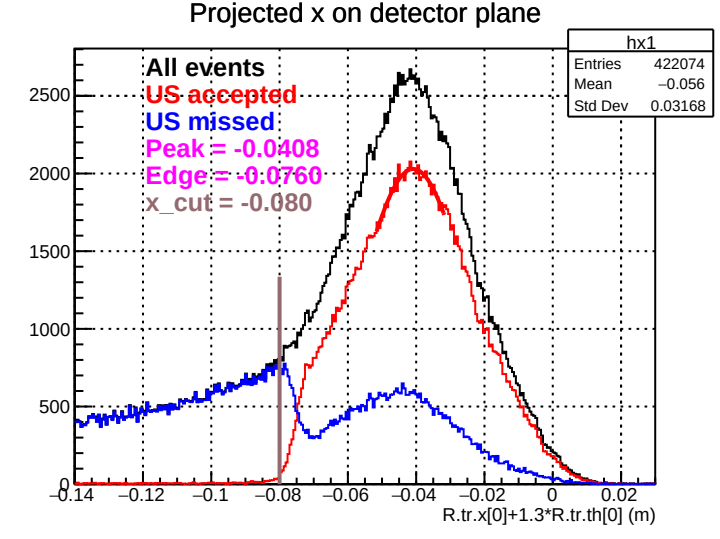

Stretched Asym. (ppm), xCut = -0.078 m
SAsym
Entries 216242
Mean 0.5578
Std Dev 0.08282
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

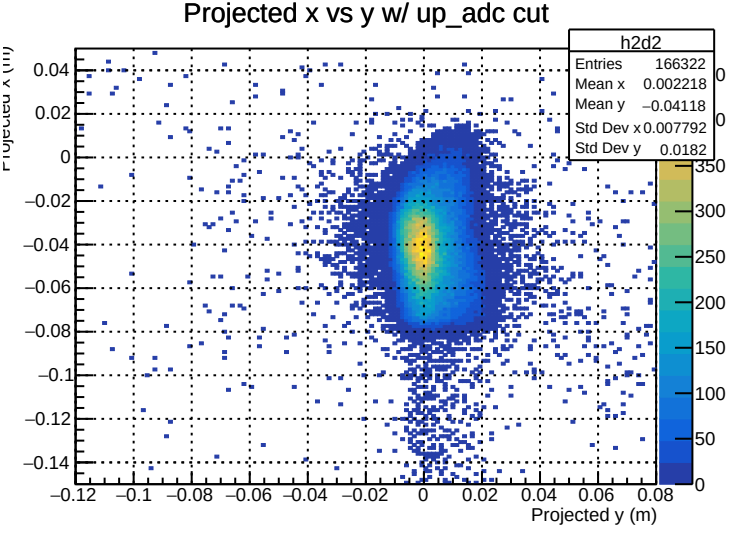

Q^2 (GeV/c)^2, xCut = -0.078 m
Q2
Entries 216242
Mean 0.006359
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

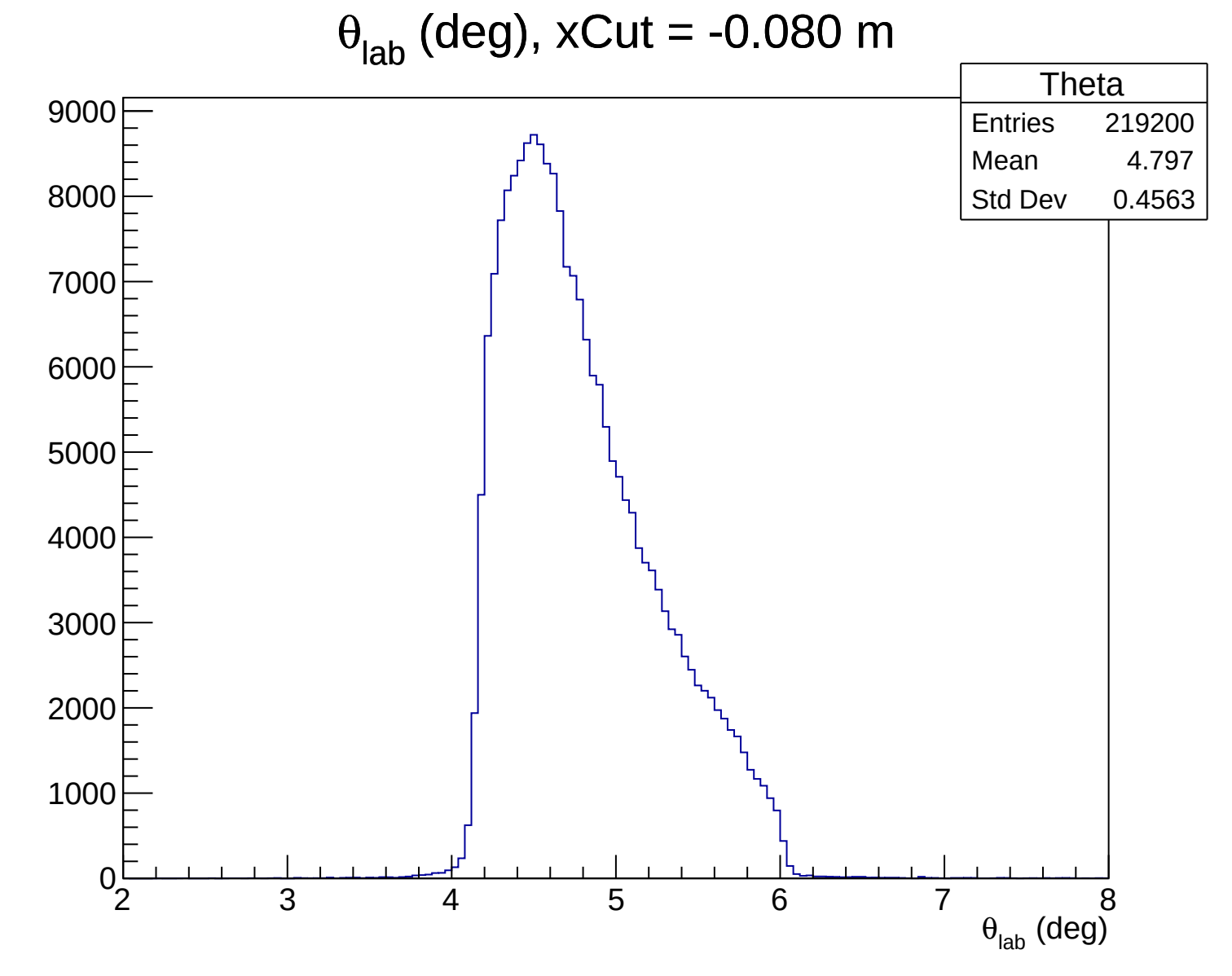

Sensitivity, xCut = -0.078 m
sens
Entries 216242
Mean 0.02235
Std Dev 0.003906
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

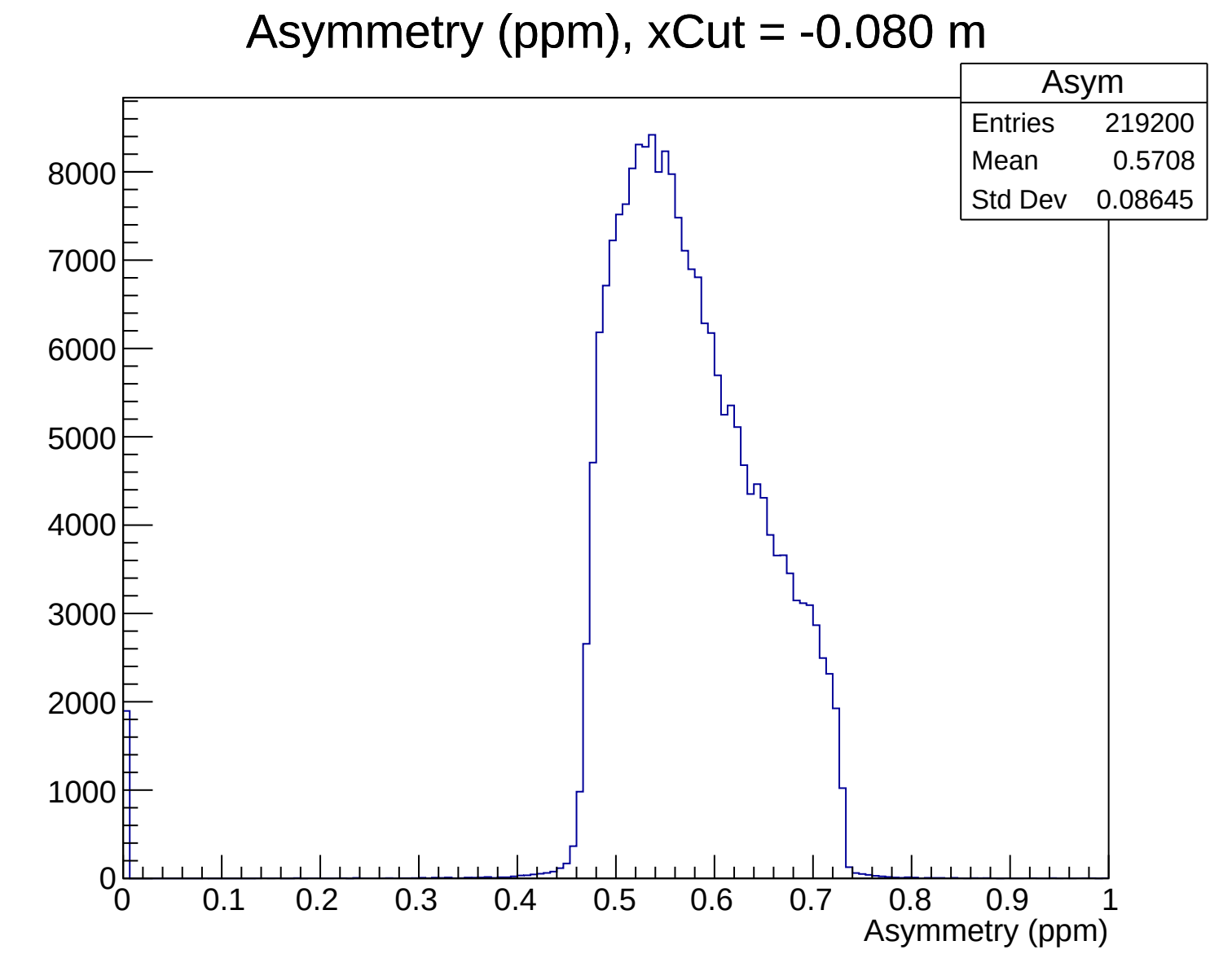

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

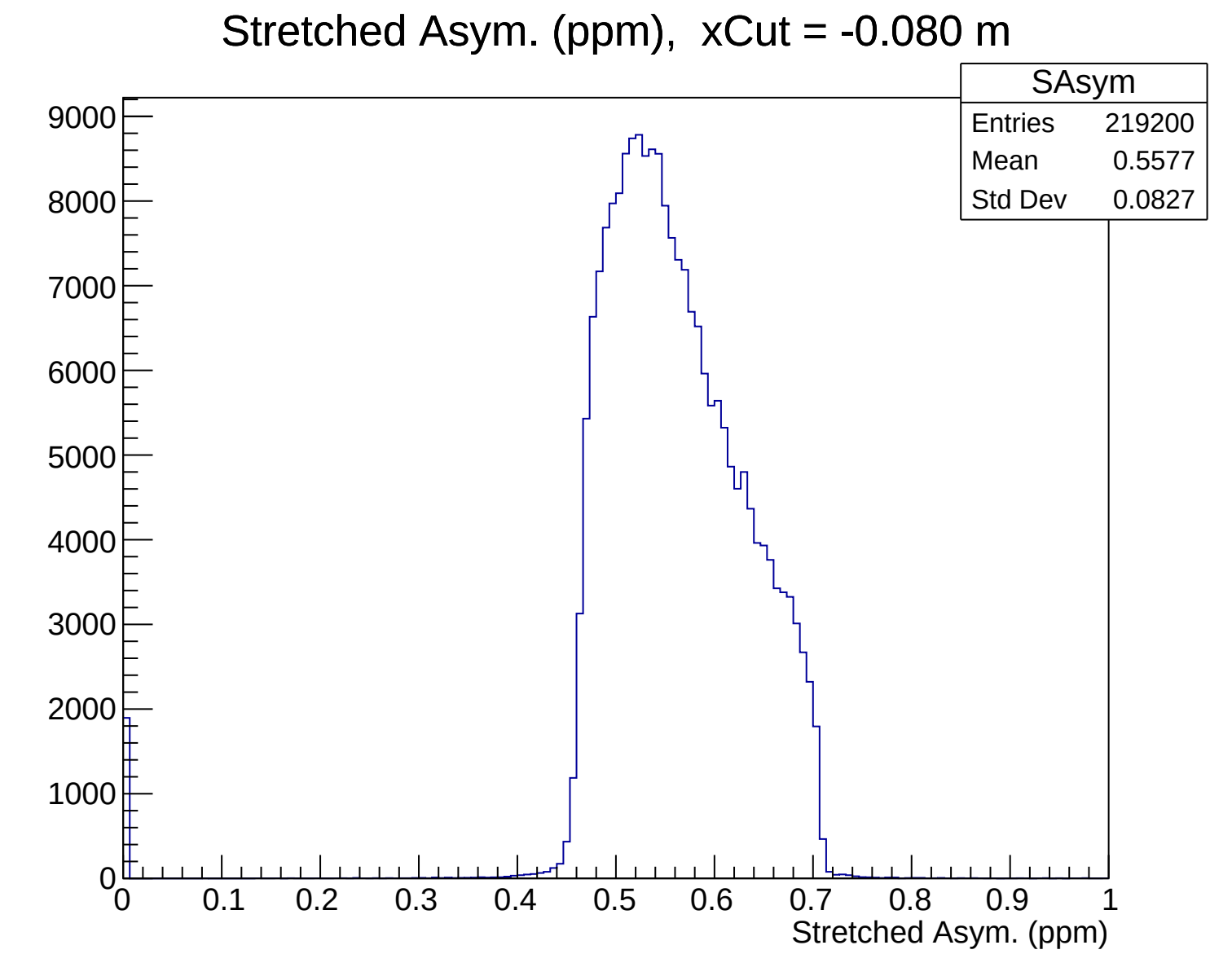

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

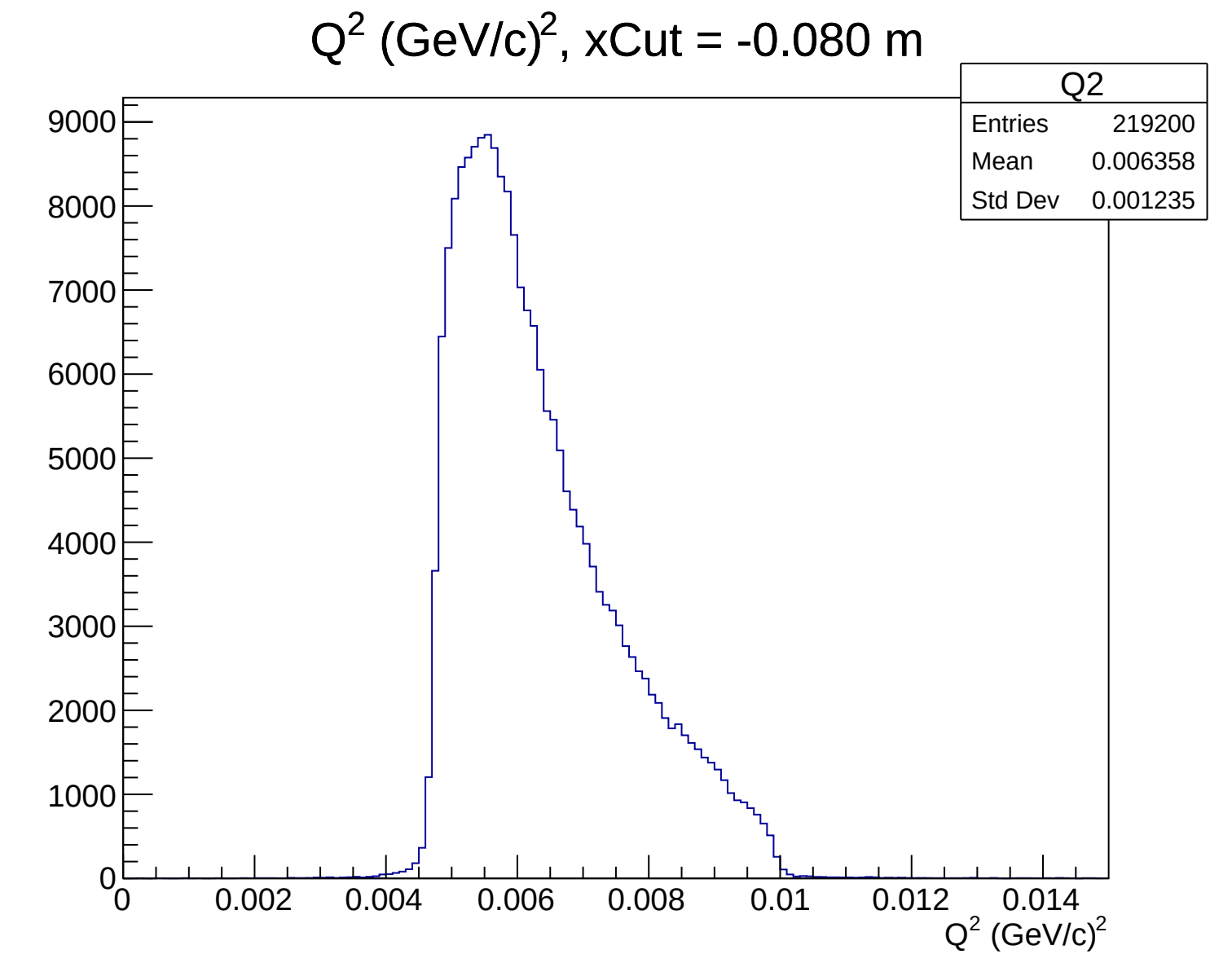

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.080
R.tr.x[0]+1.3*R.tr.th[0] (m)

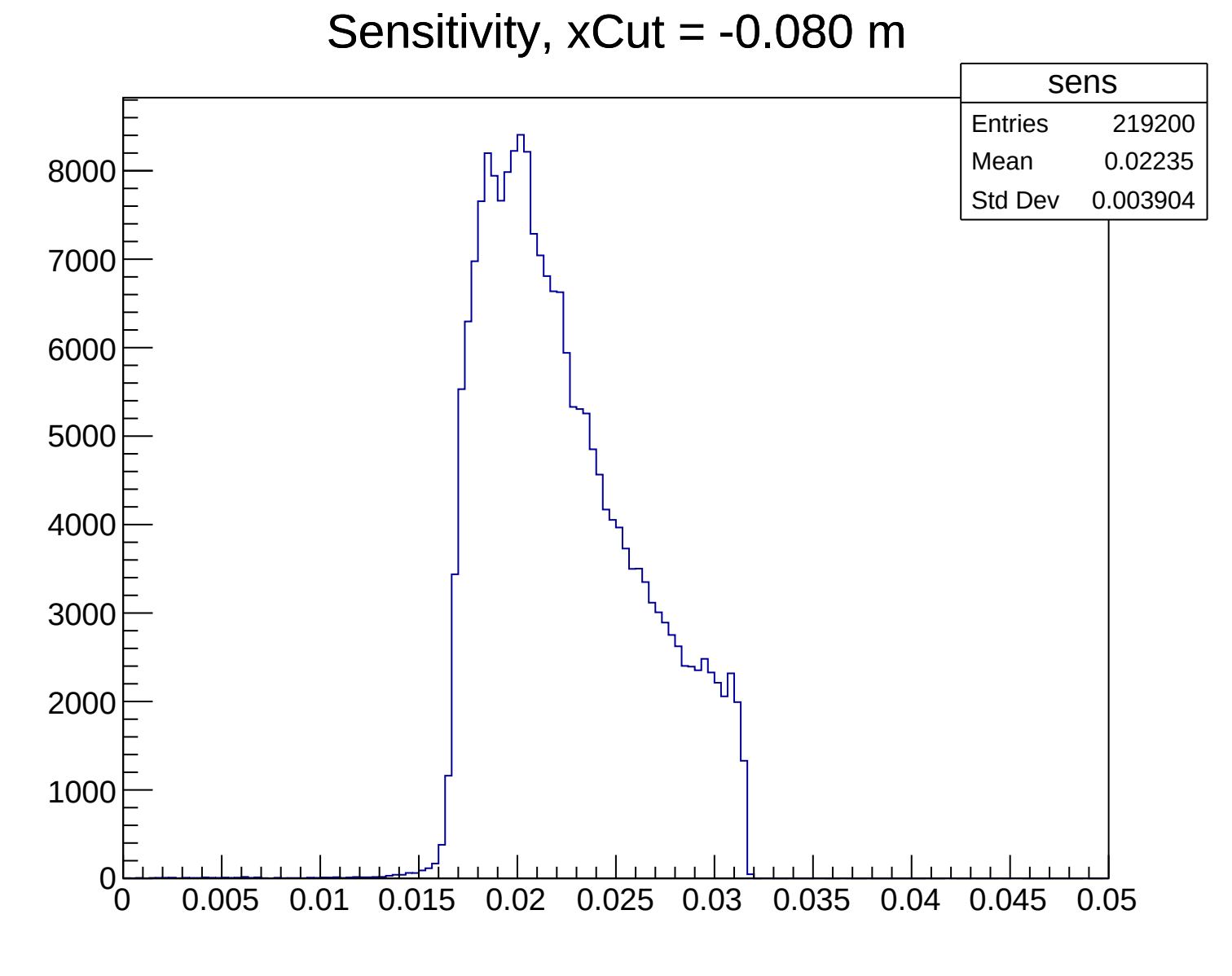

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

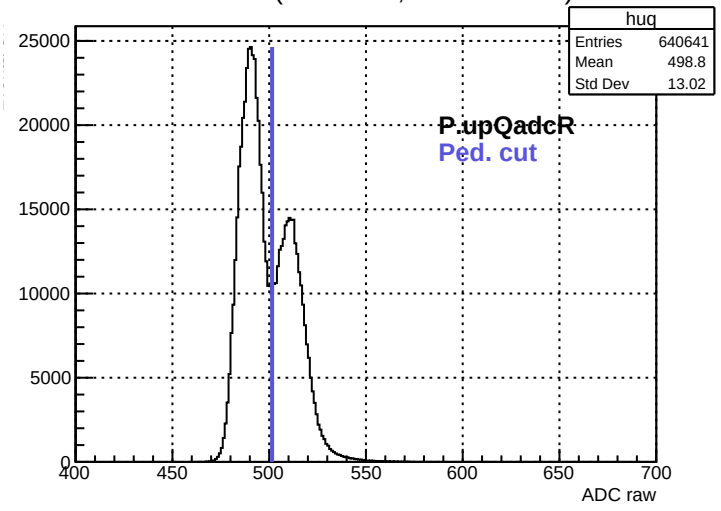

θlab (deg), xCut = -0.080 m
Theta
Entries 219200
Mean 4.797
Std Dev 0.4563
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

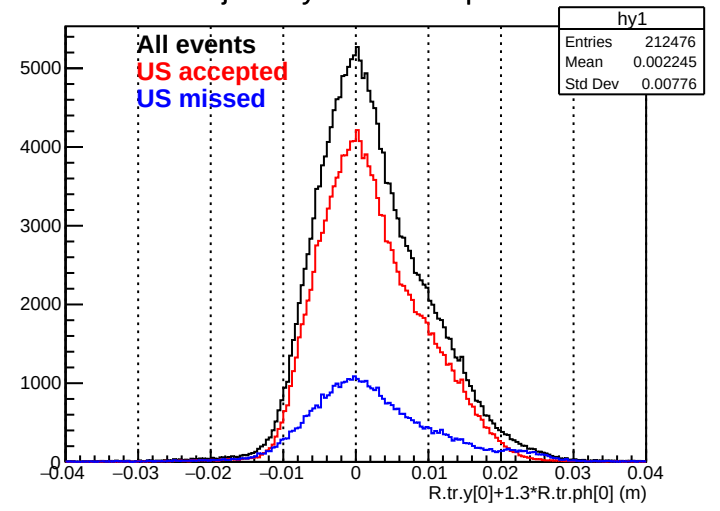

Asymmetry (ppm), xCut = -0.080 m
Asym
Entries 219200
Mean 0.5708
Std Dev 0.08645
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

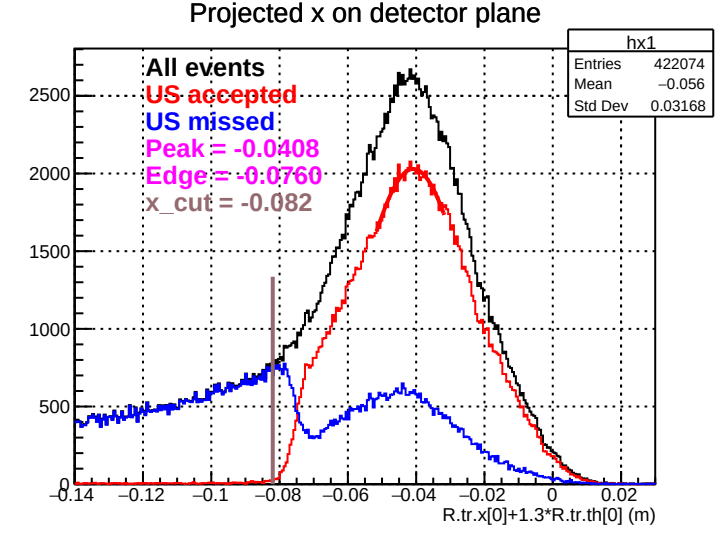

Stretched Asym. (ppm), xCut = -0.080 m
SAsym
Entries 219200
Mean 0.5577
Std Dev 0.0827
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

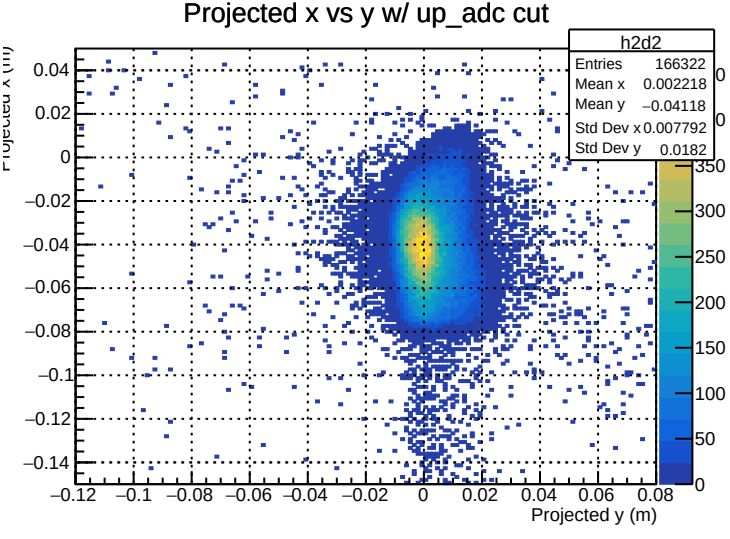

Q^2 (GeV/c)^2, xCut = -0.080 m
Q2
Entries 219200
Mean 0.006358
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

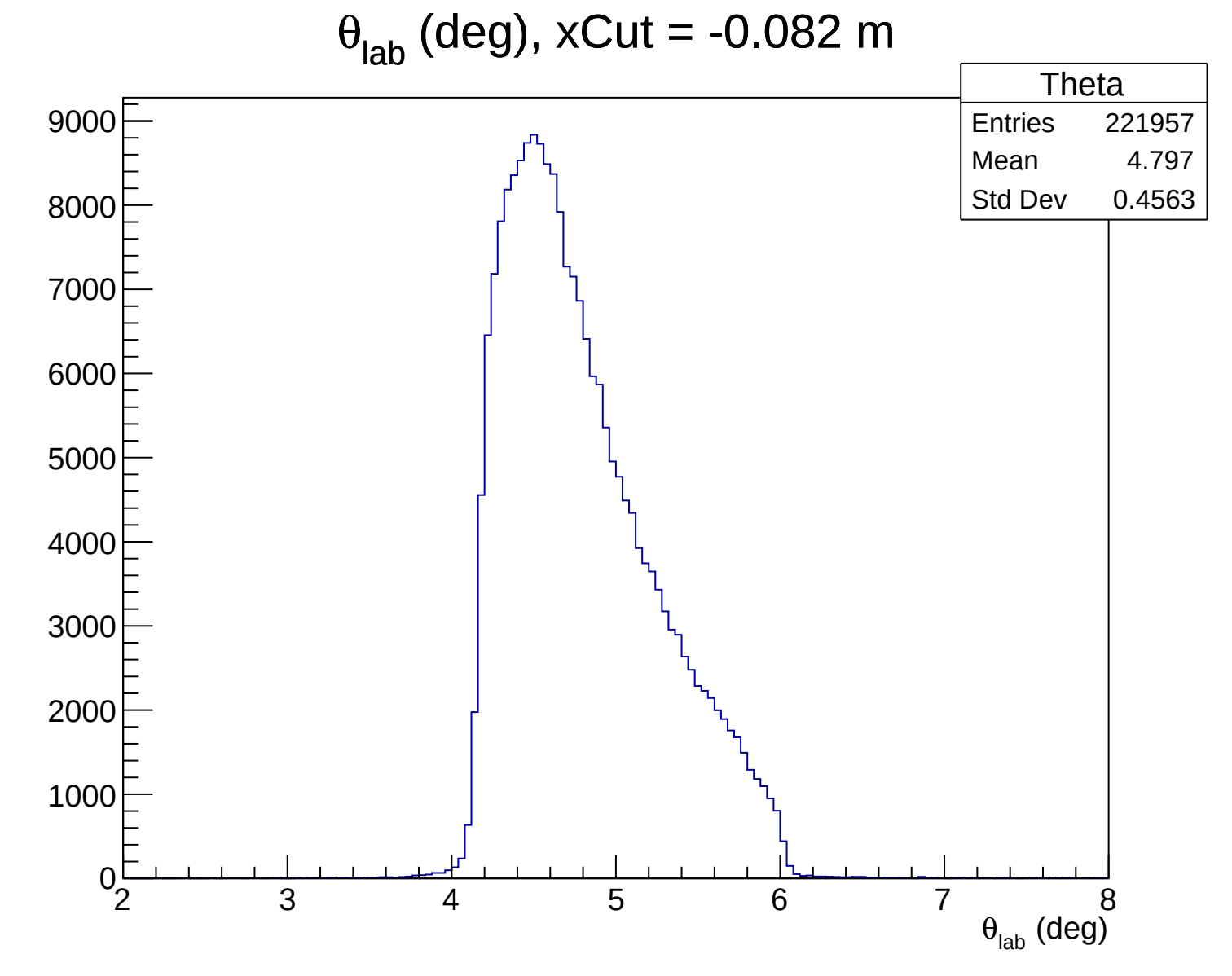

Sensitivity, xCut = -0.080 m
sens
Entries 219200
Mean 0.02235
Std Dev 0.003904
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

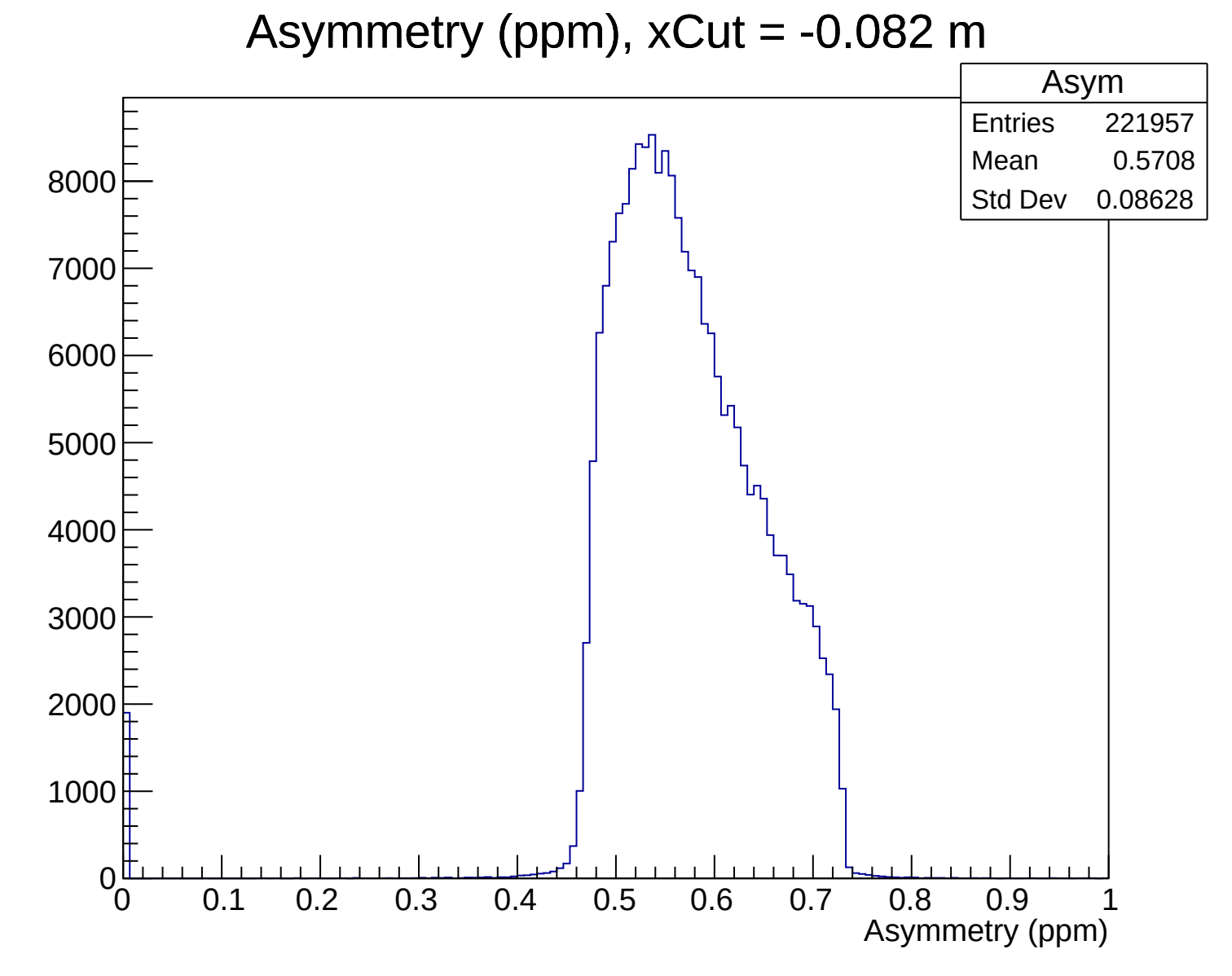

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

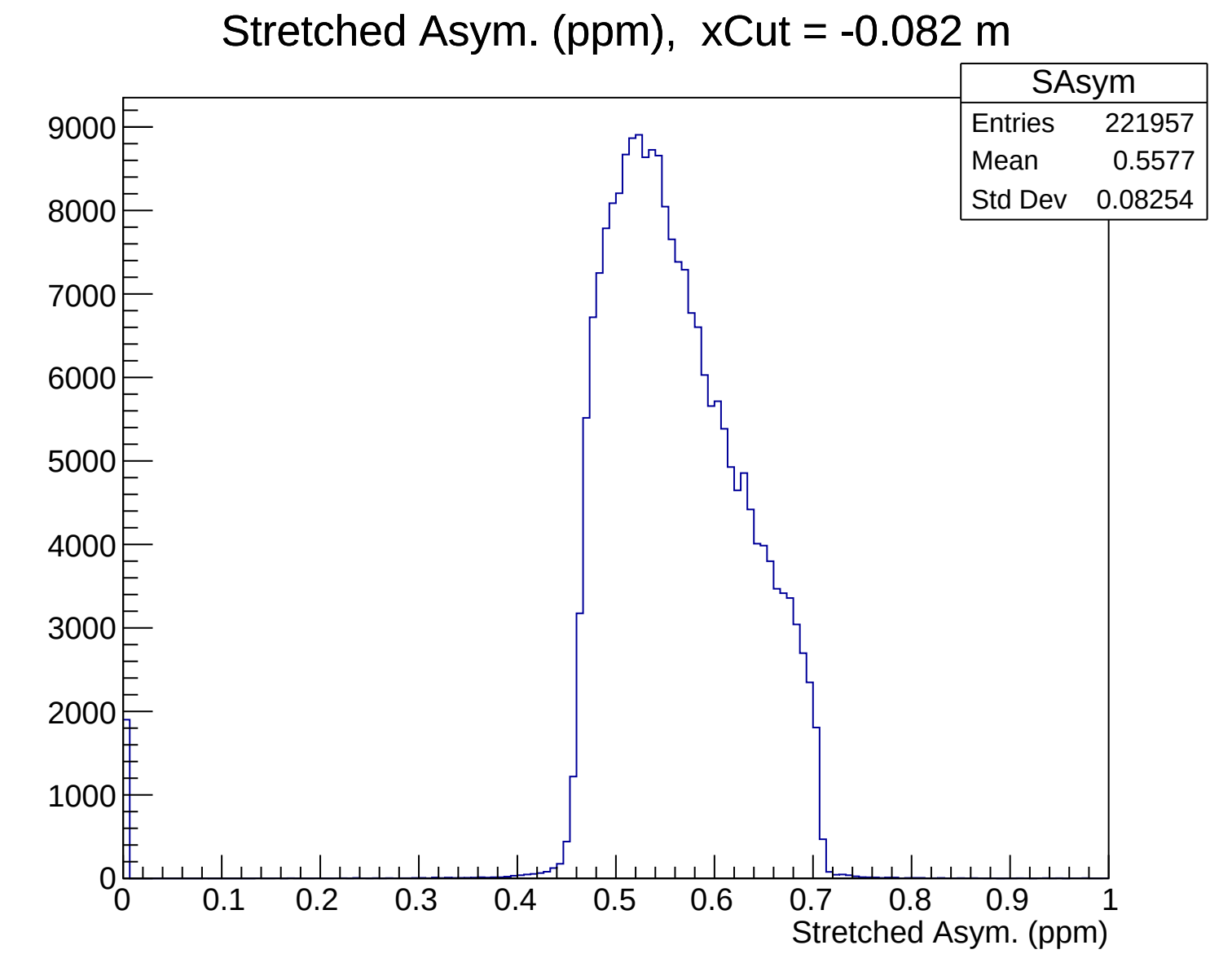

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

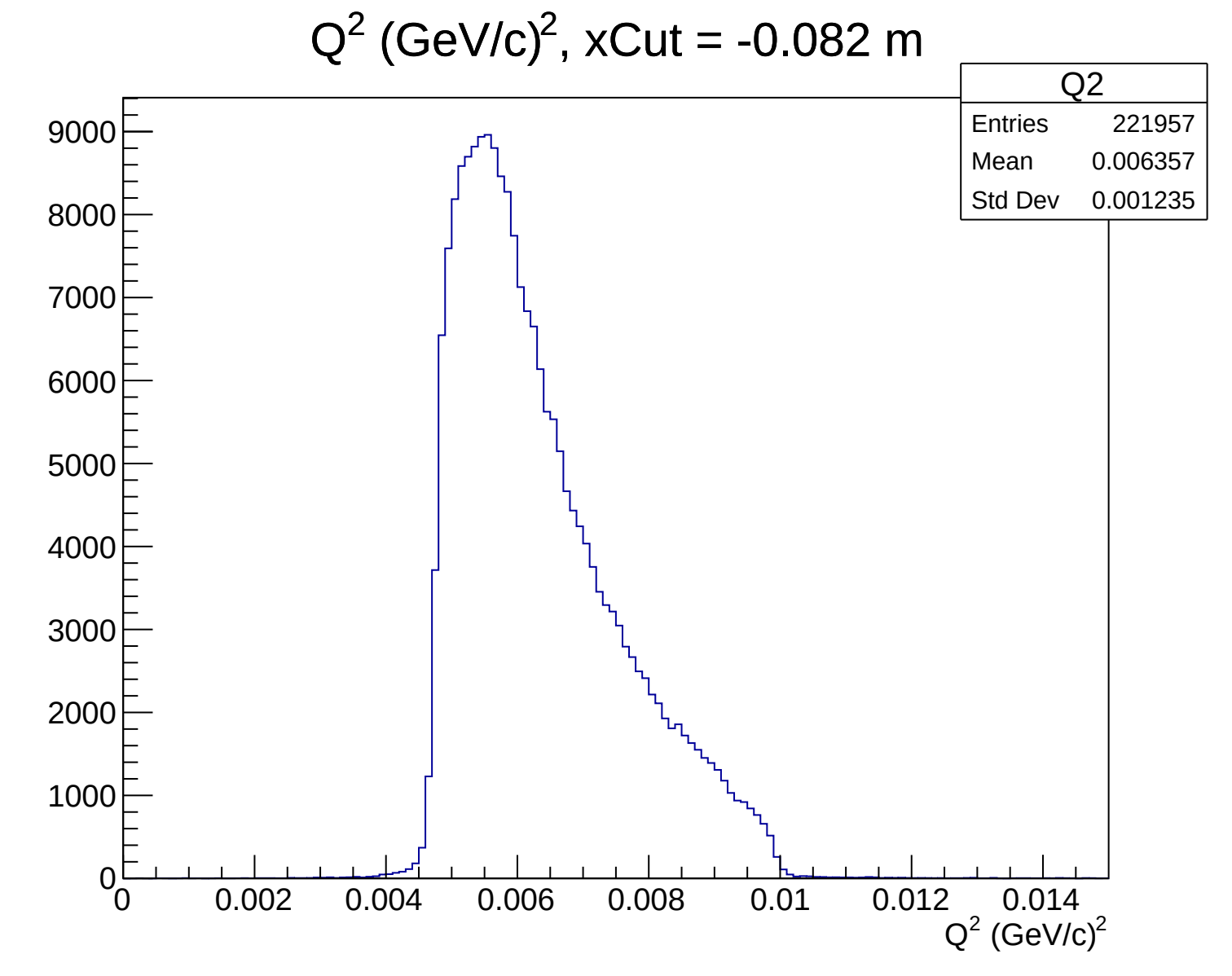

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.082
R.tr.x[0]+1.3*R.tr.th[0] (m)

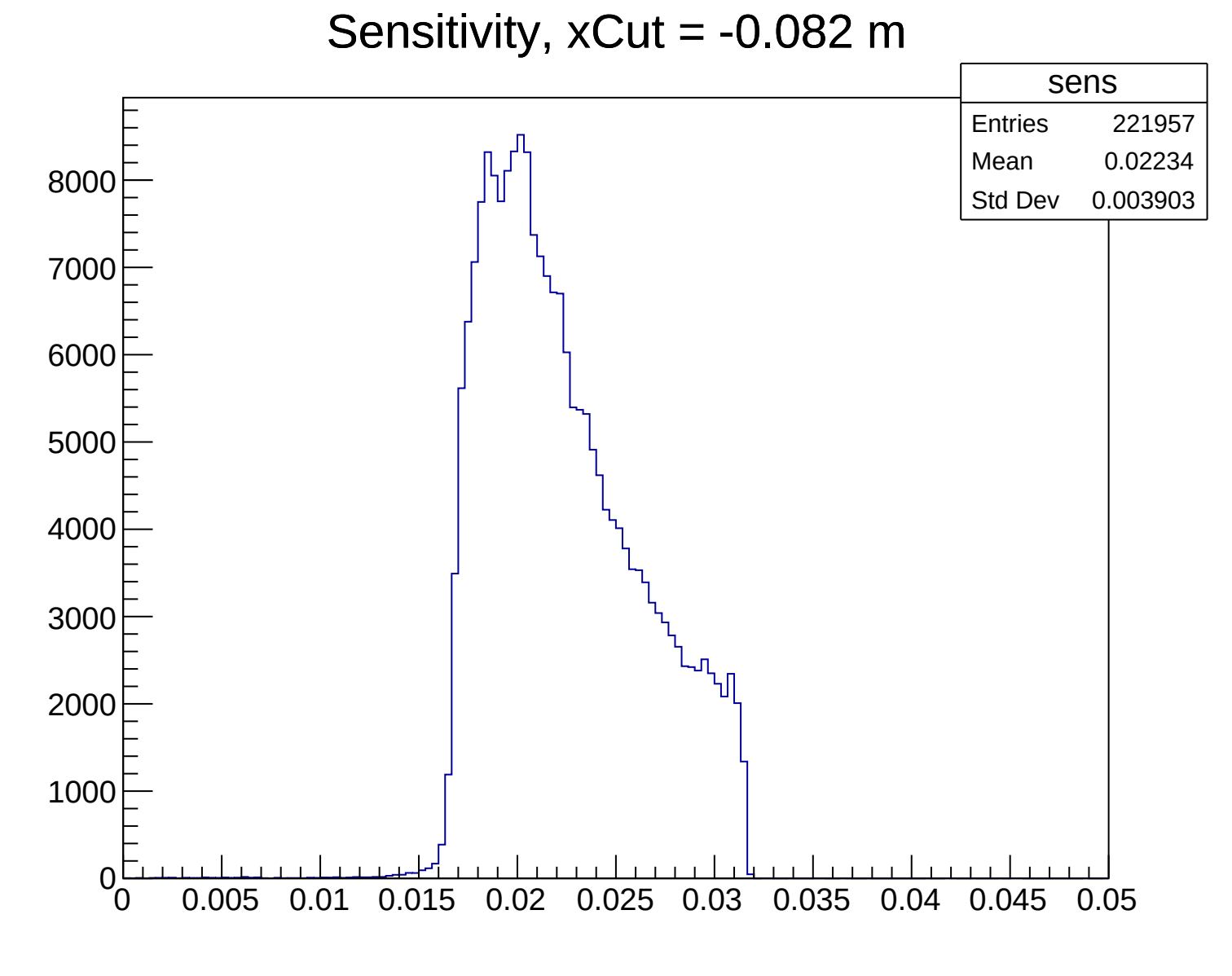

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

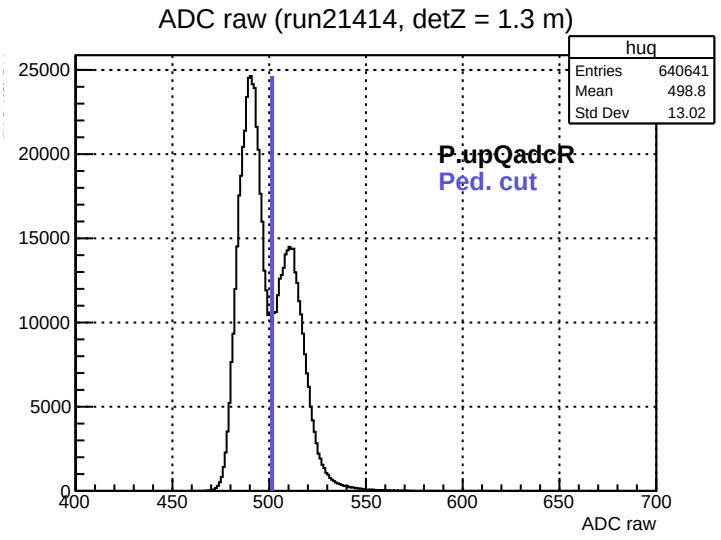

θlab (deg), xCut = -0.082 m
Theta
Entries 221957
Mean 4.797
Std Dev 0.4563
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

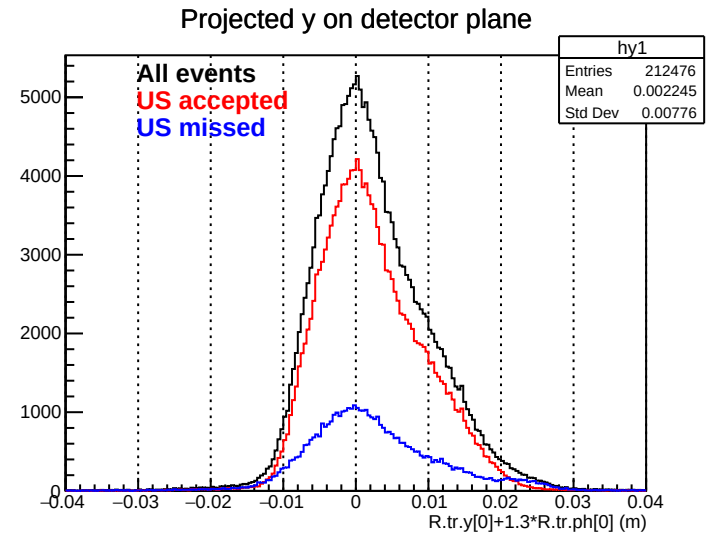

Asymmetry (ppm), xCut = -0.082 m
Asym
Entries 221957
Mean 0.5708
Std Dev 0.08628
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

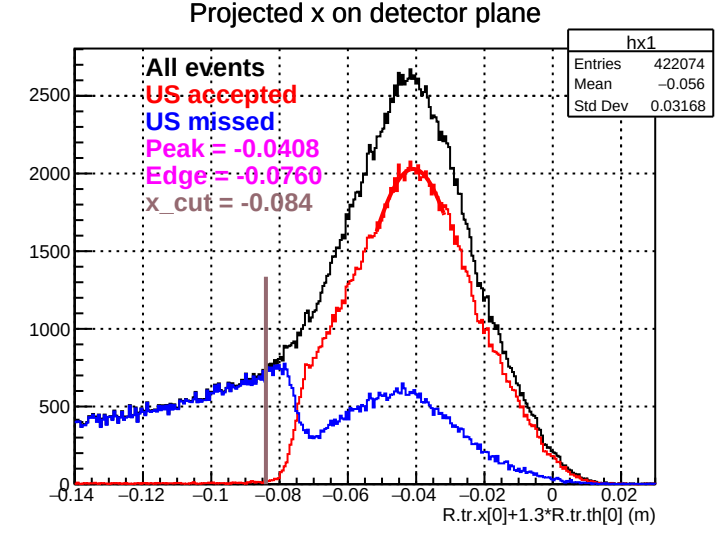

Stretched Asym. (ppm), xCut = -0.082 m
SAsym
Entries 221957
Mean 0.5577
Std Dev 0.08254
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

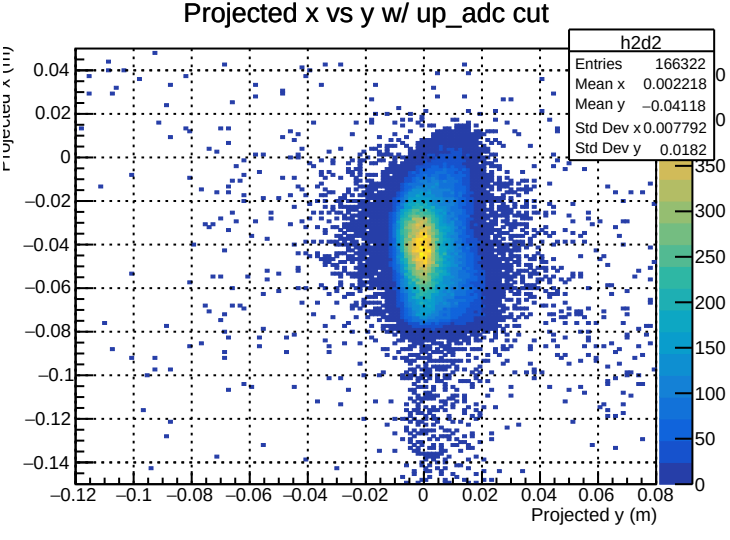

Q^2 (GeV/c)^2, xCut = -0.082 m
Q2
Entries 221957
Mean 0.006357
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

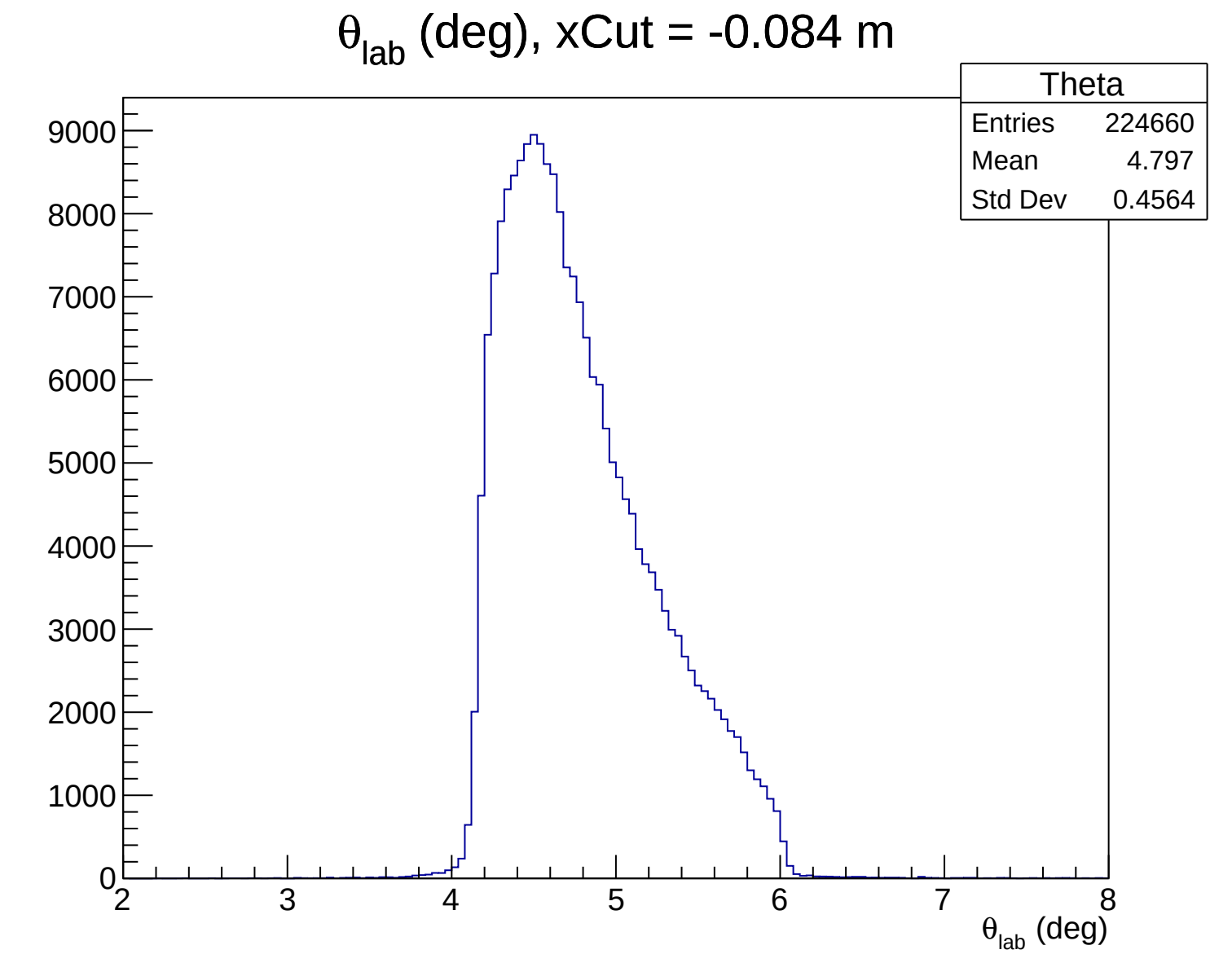

Sensitivity, xCut = -0.082 m
sens
Entries 221957
Mean 0.02234
Std Dev 0.003903
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

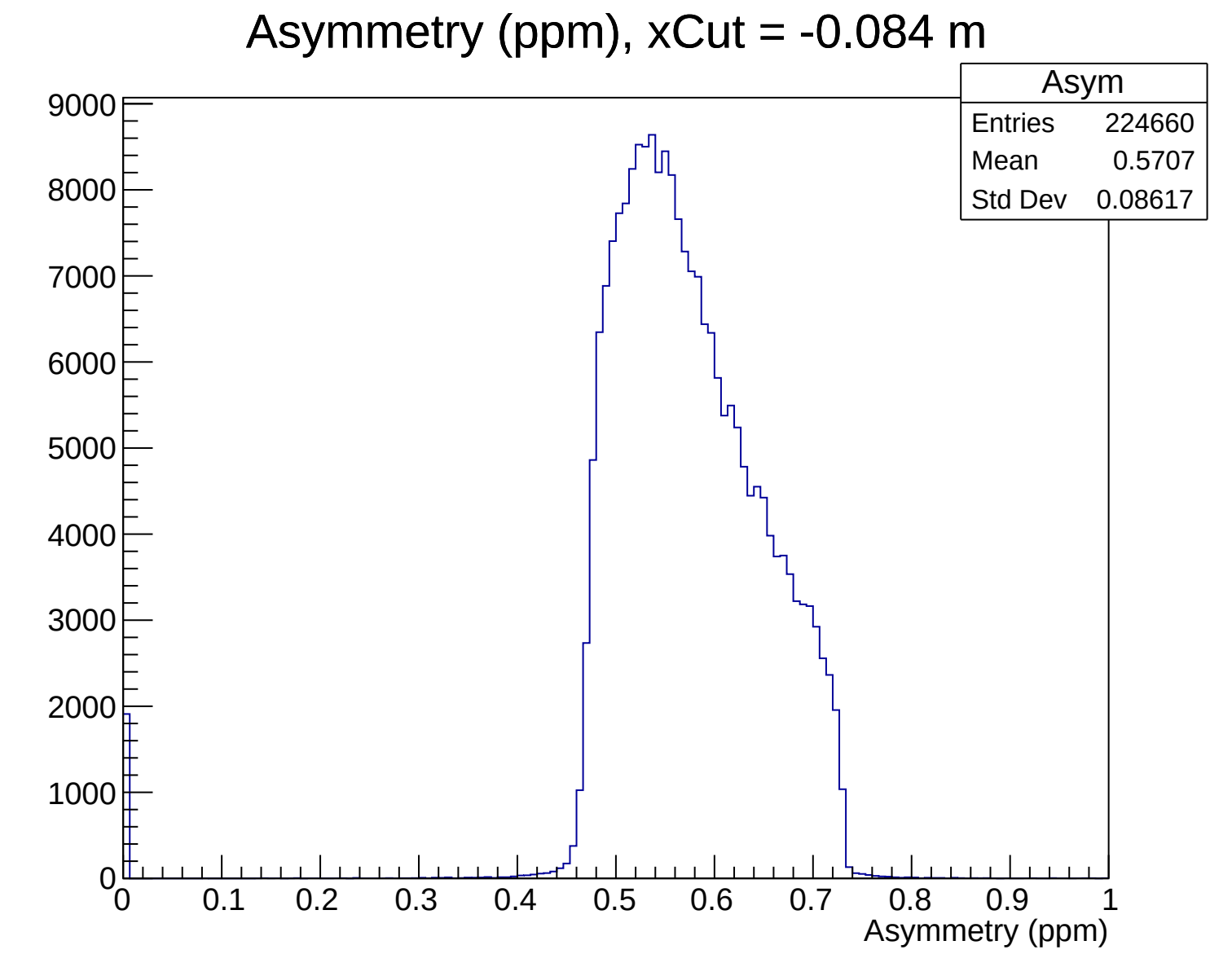

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

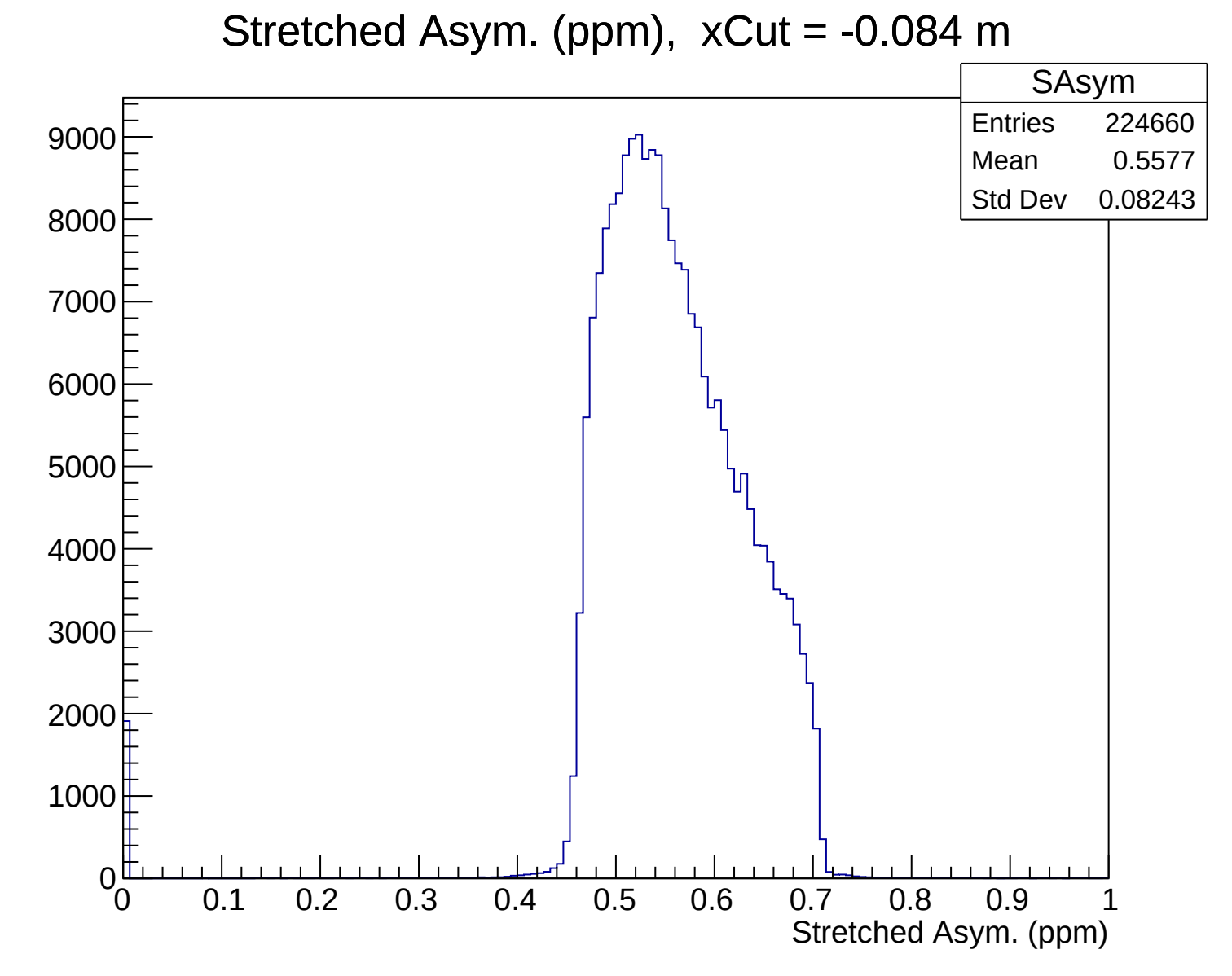

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

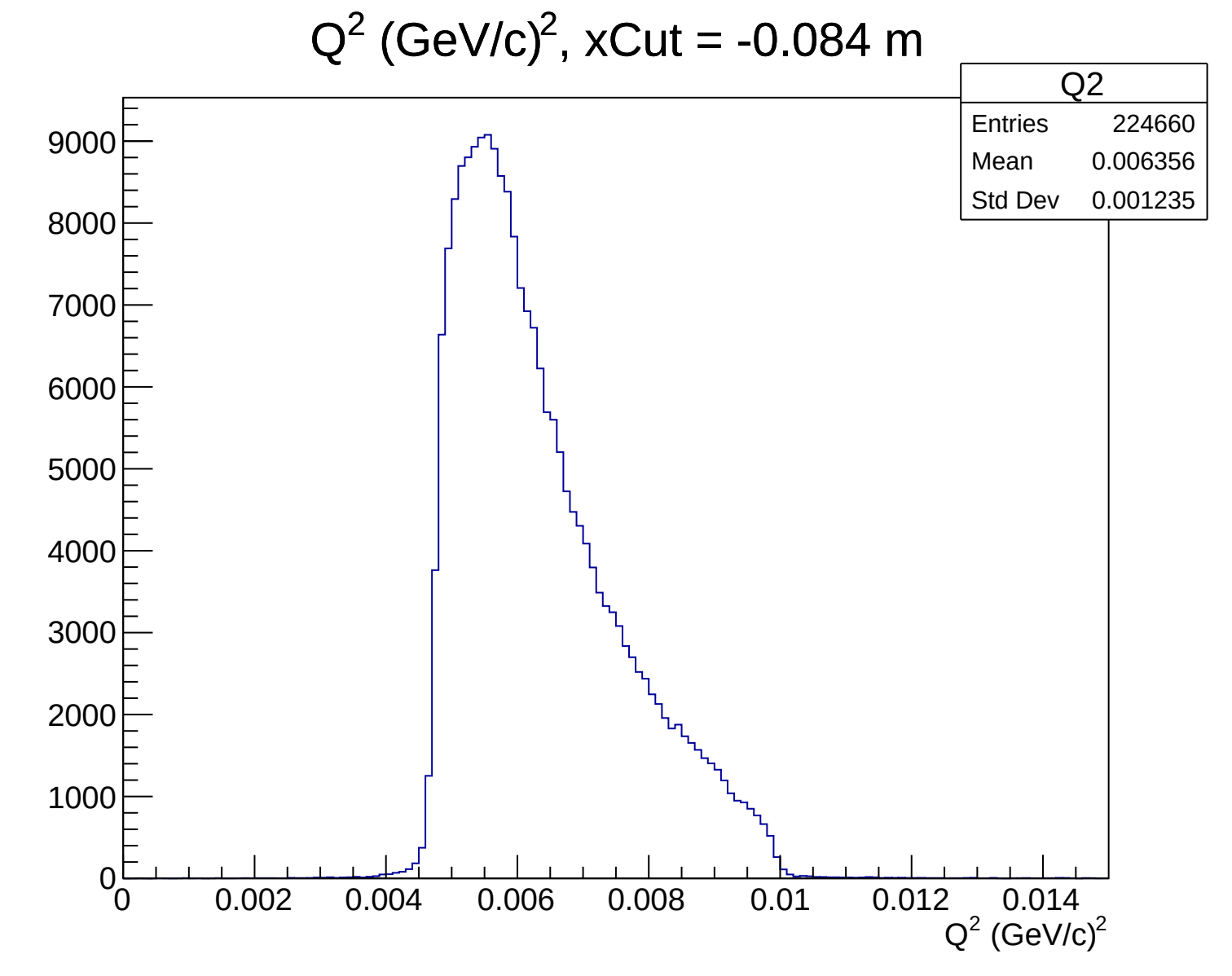

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.084
R.tr.x[0]+1.3*R.tr.th[0] (m)

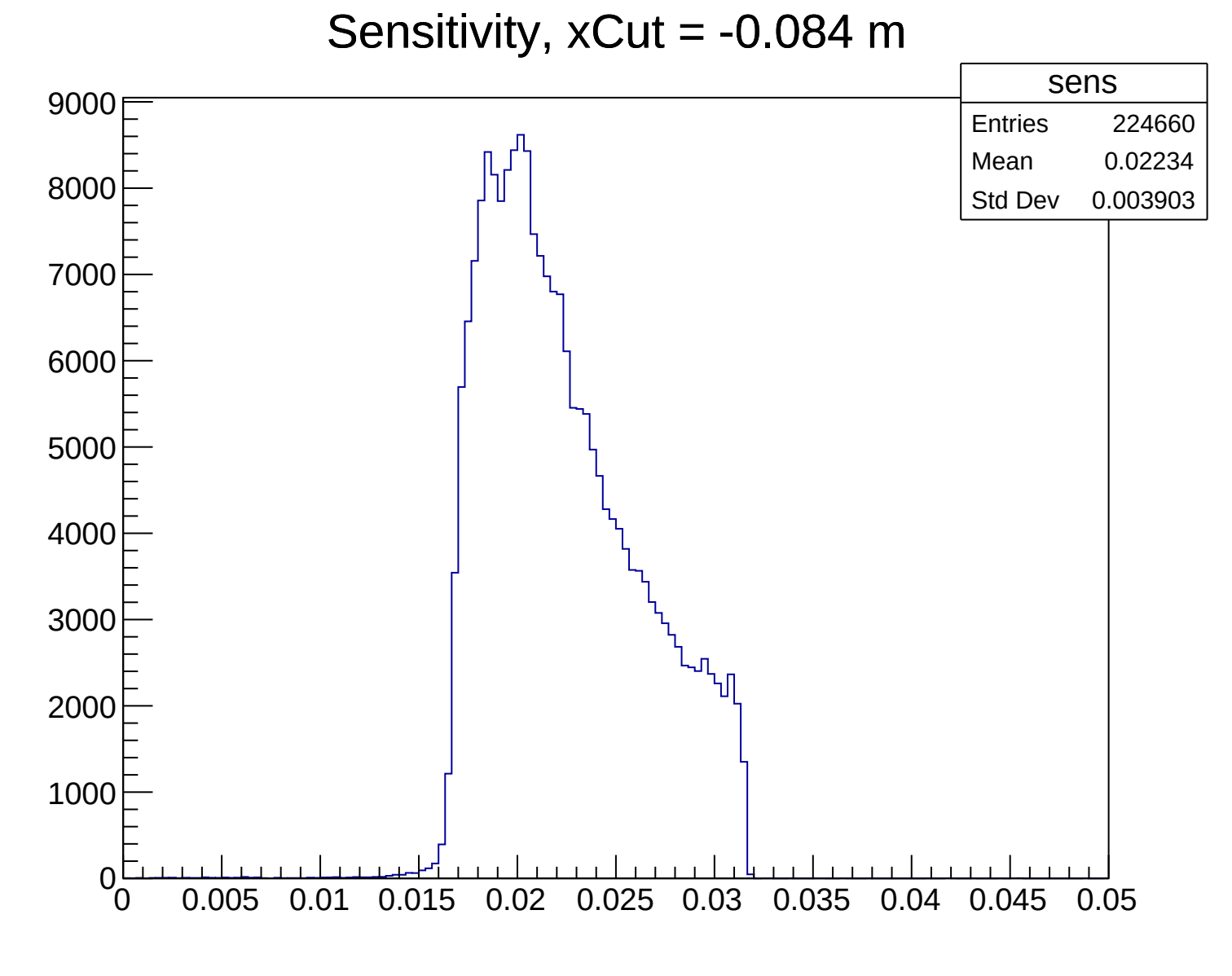

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

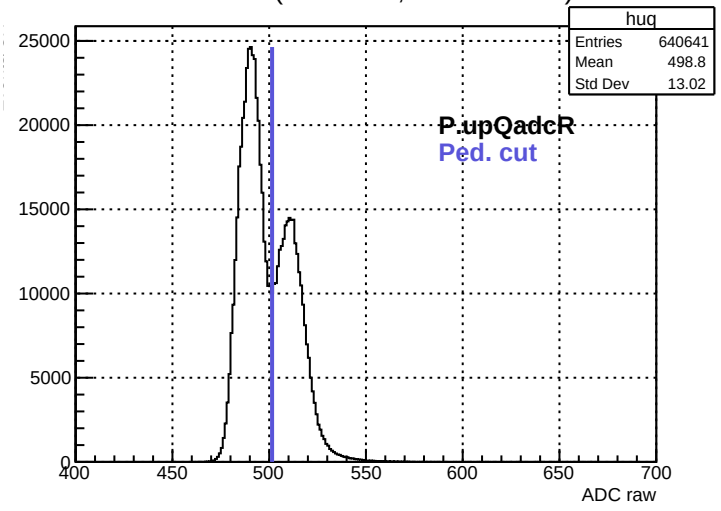

θlab (deg), xCut = -0.084 m
Theta
Entries 224660
Mean 4.797
Std Dev 0.4564
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

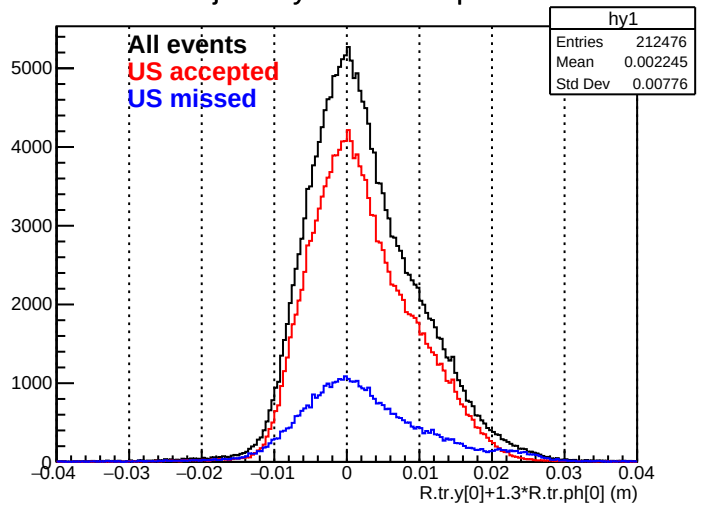

Asymmetry (ppm), xCut = -0.084 m
Asym
Entries 224660
Mean 0.5707
Std Dev 0.08617
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

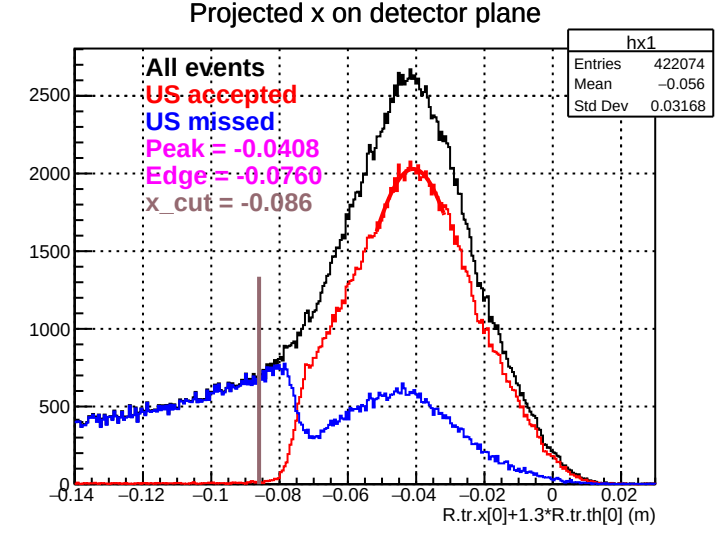

Stretched Asym. (ppm), xCut = -0.084 m
SAsym
Entries 224660
Mean 0.5577
Std Dev 0.08243
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

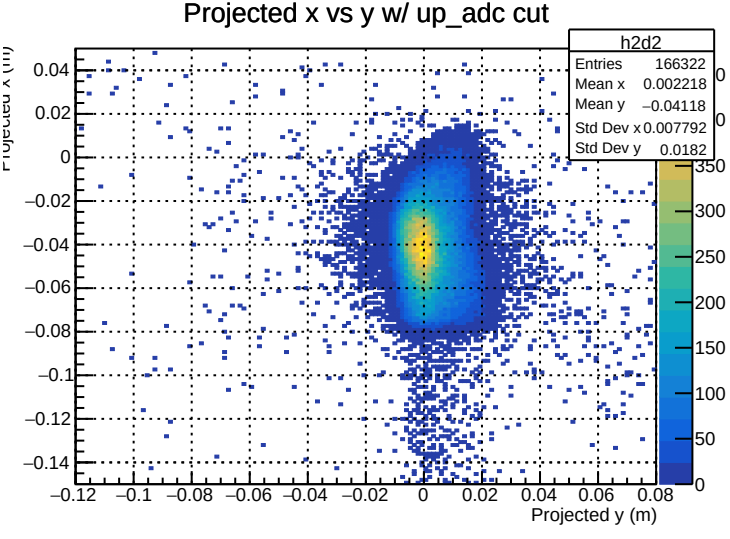

Q^2 (GeV/c)^2, xCut = -0.084 m
Q2
Entries 224660
Mean 0.006356
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

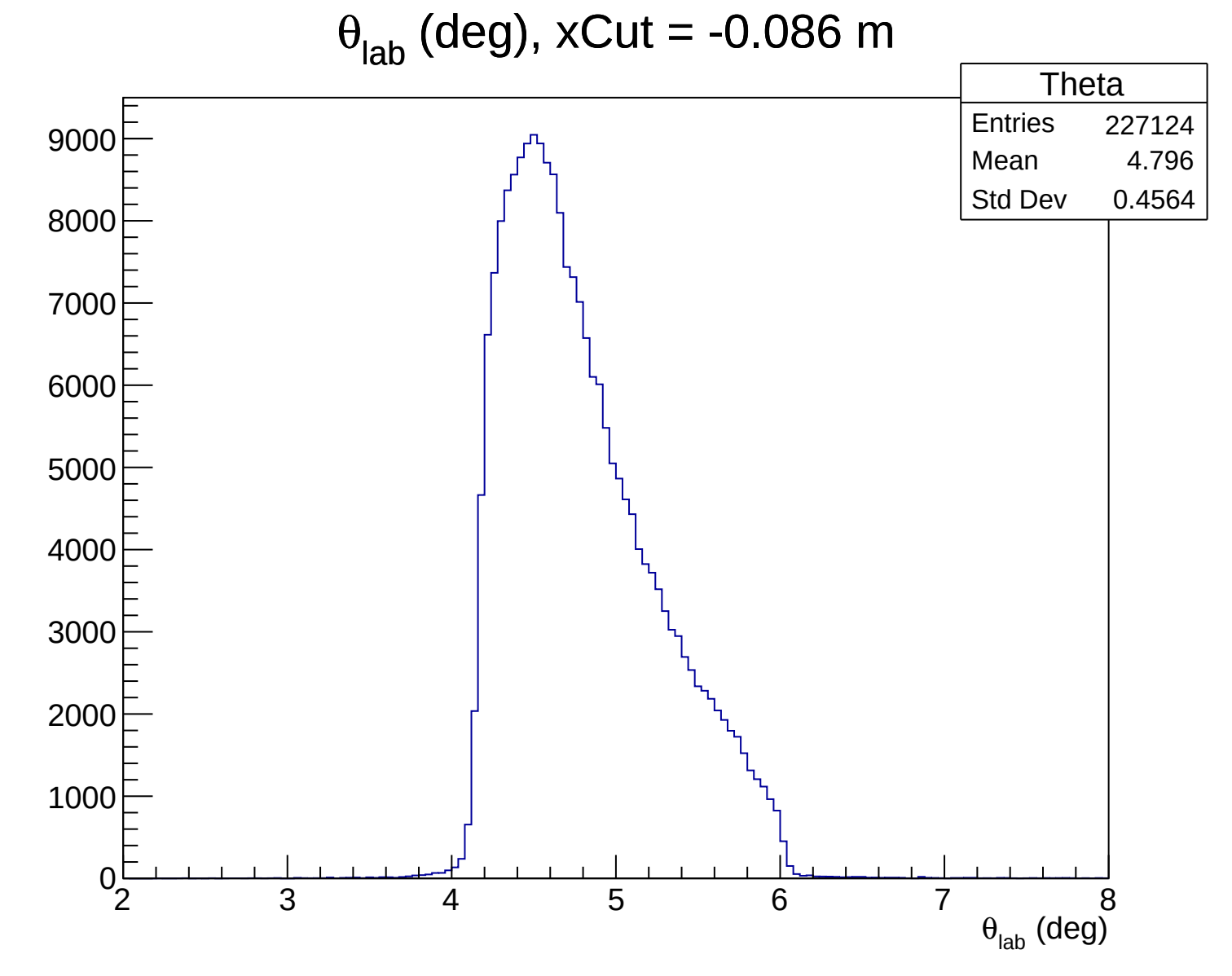

Sensitivity, xCut = -0.084 m
sens
Entries 224660
Mean 0.02234
Std Dev 0.003903
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

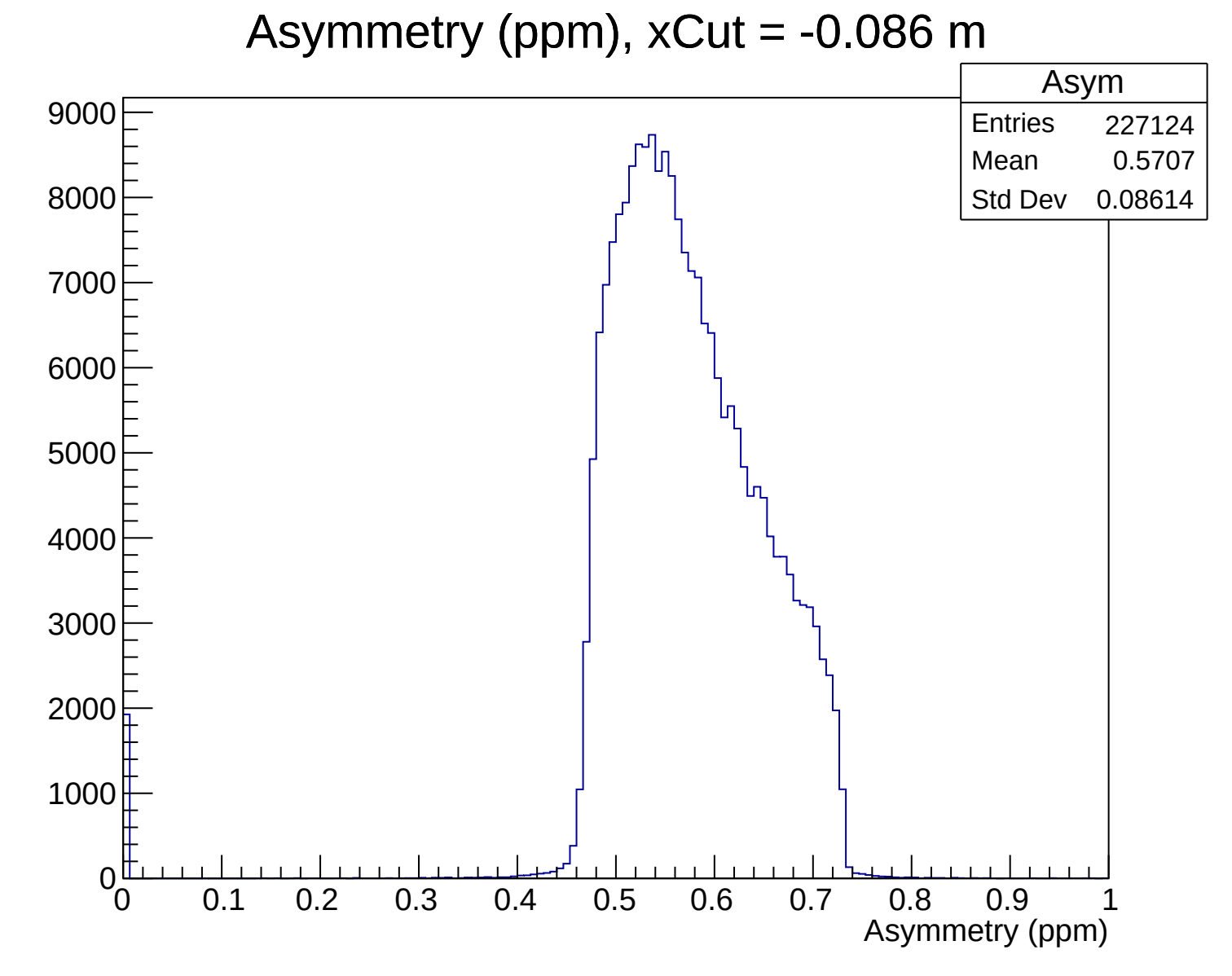

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

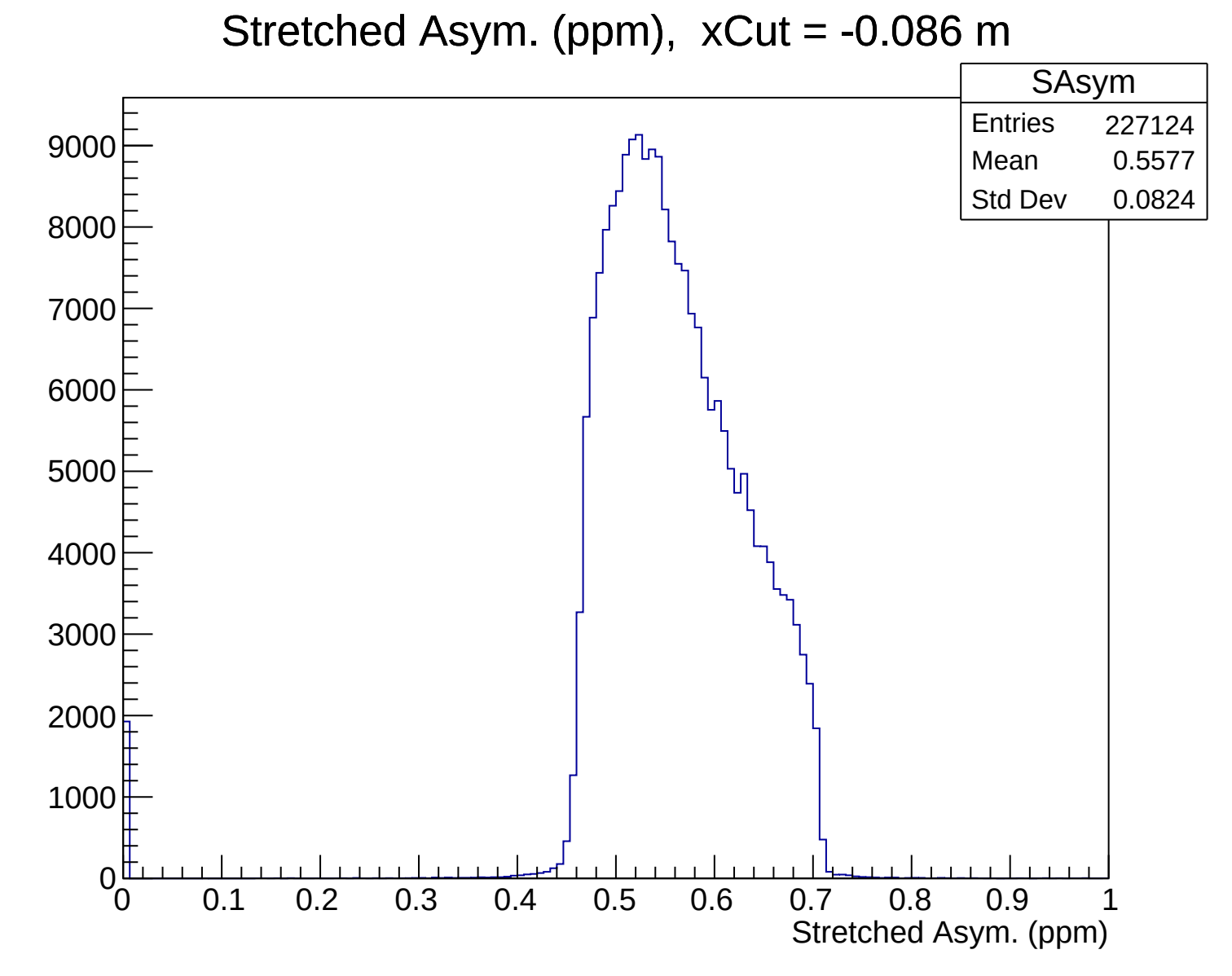

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

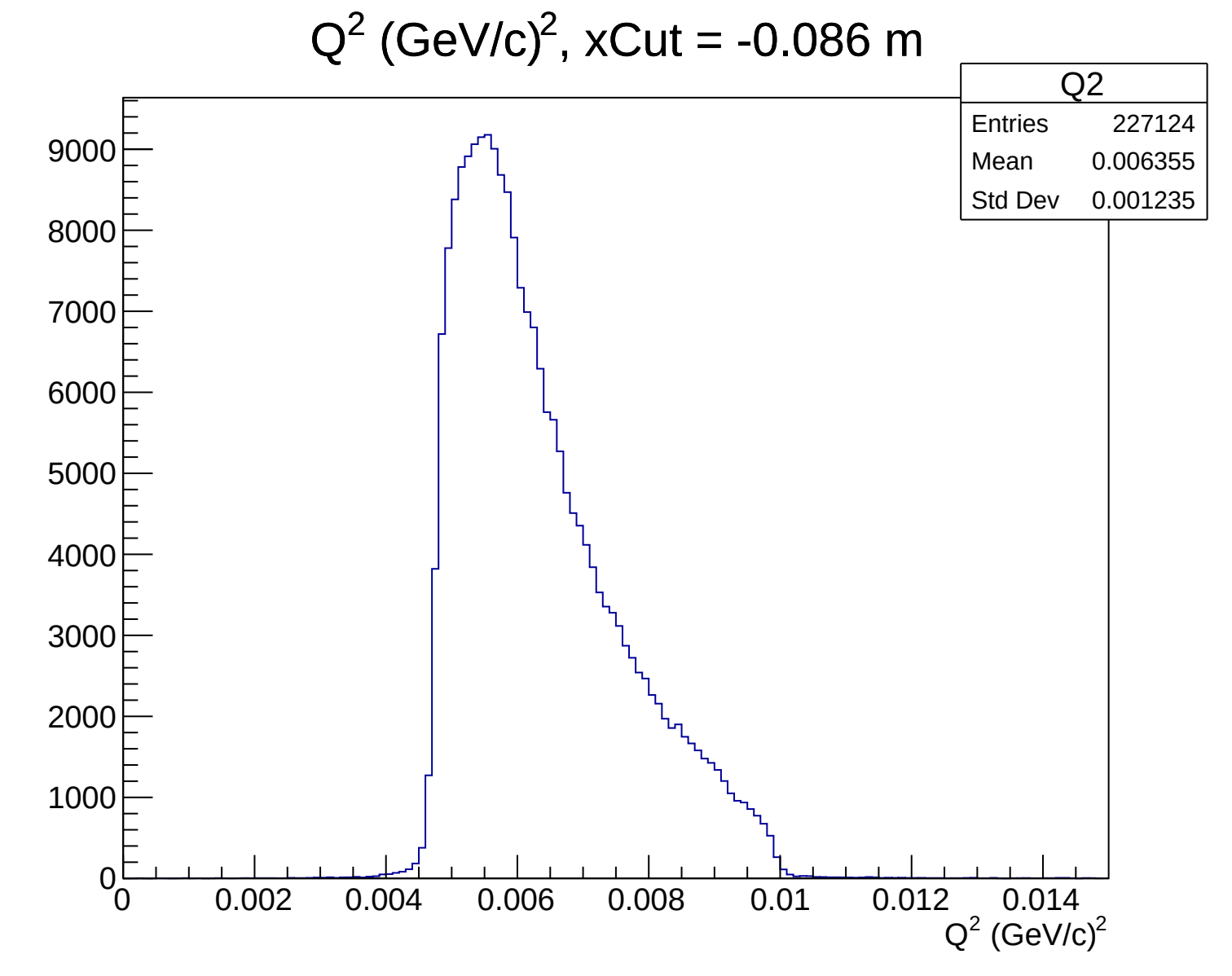

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.086
R.tr.x[0]+1.3*R.tr.th[0] (m)

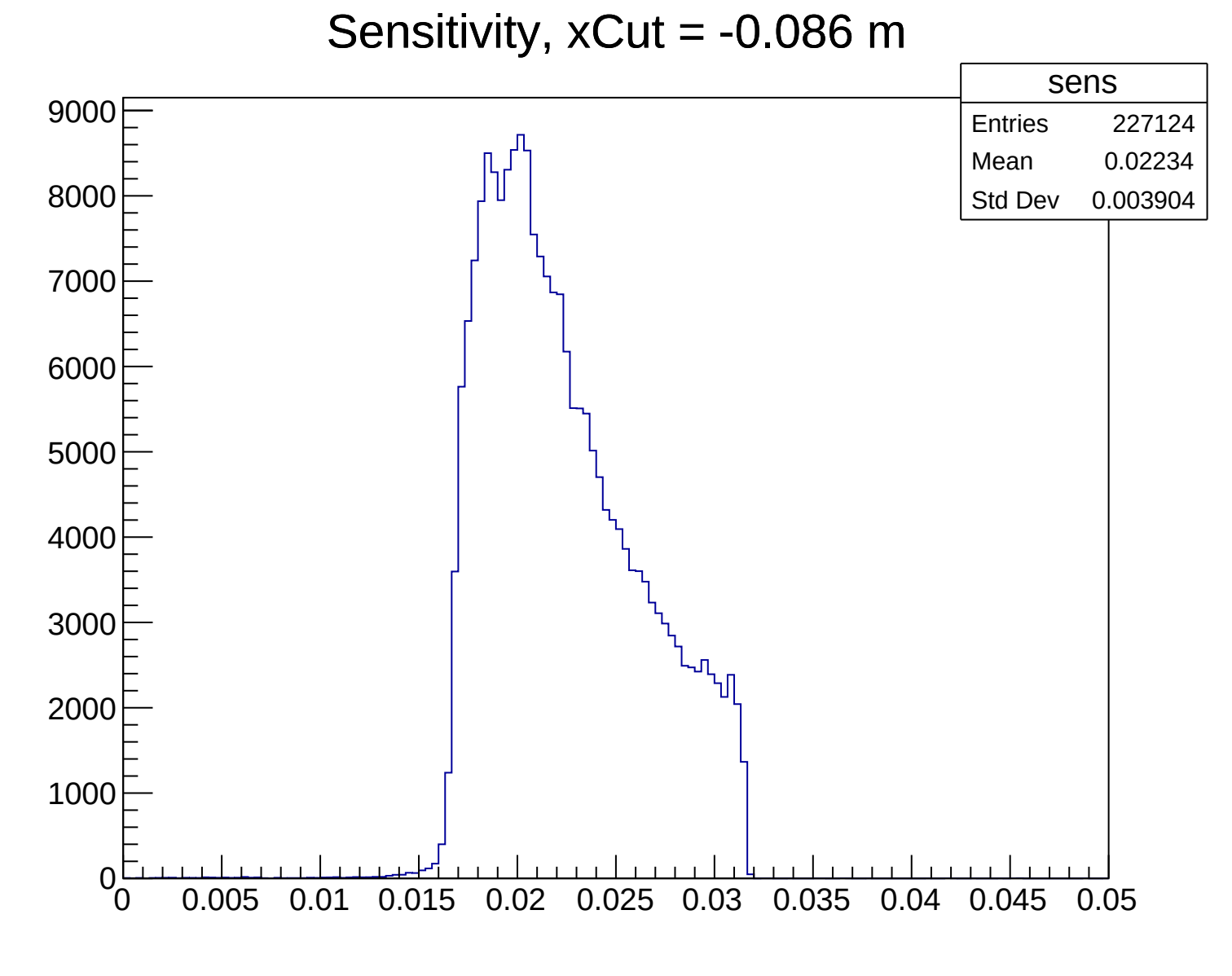

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

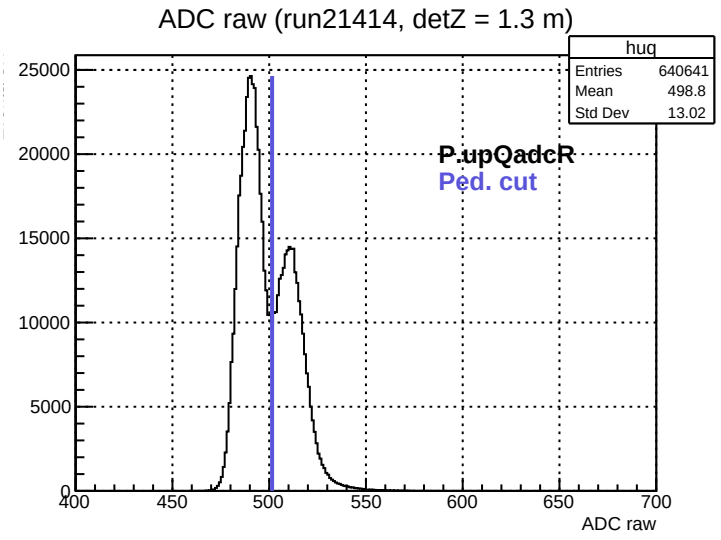

θlab (deg), xCut = -0.086 m
Theta
Entries 227124
Mean 4.796
Std Dev 0.4564
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

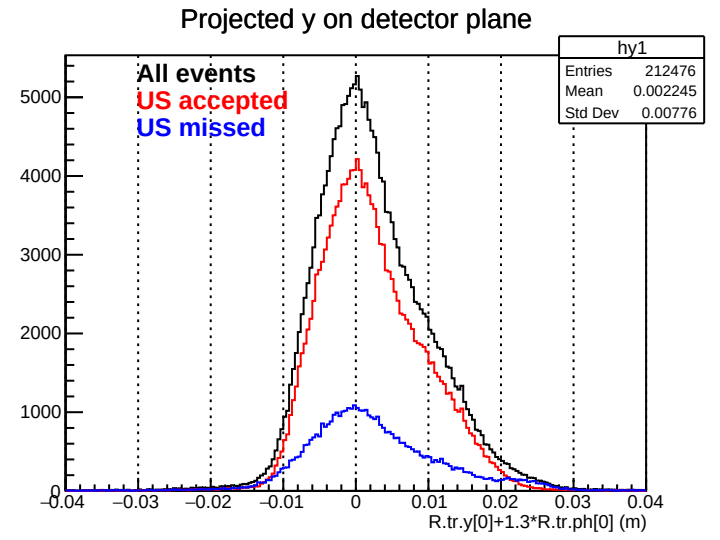

Asymmetry (ppm), xCut = -0.086 m
Asym
Entries 227124
Mean 0.5707
Std Dev 0.08614
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

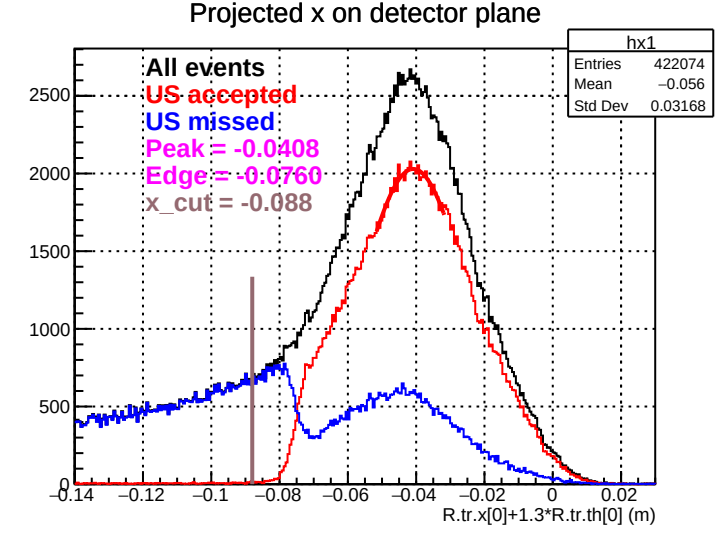

Stretched Asym. (ppm), xCut = -0.086 m
SAsym
Entries 227124
Mean 0.5577
Std Dev 0.0824
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

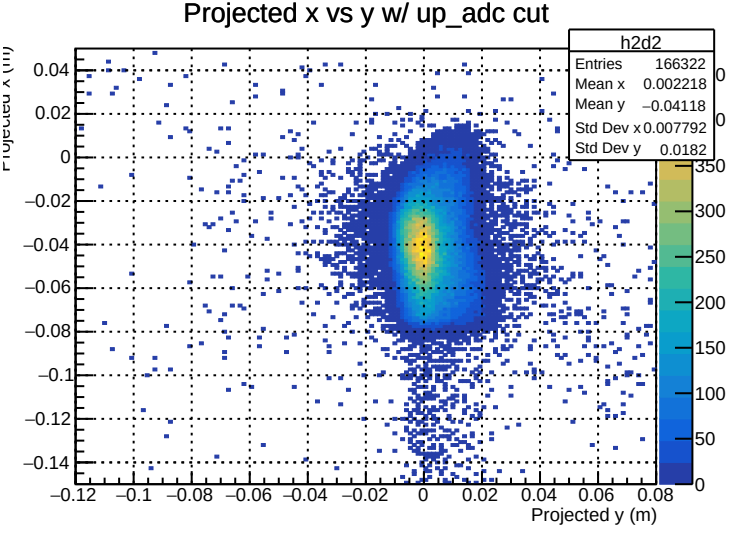

Q^2 (GeV/c)^2, xCut = -0.086 m
Q2
Entries 227124
Mean 0.006355
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

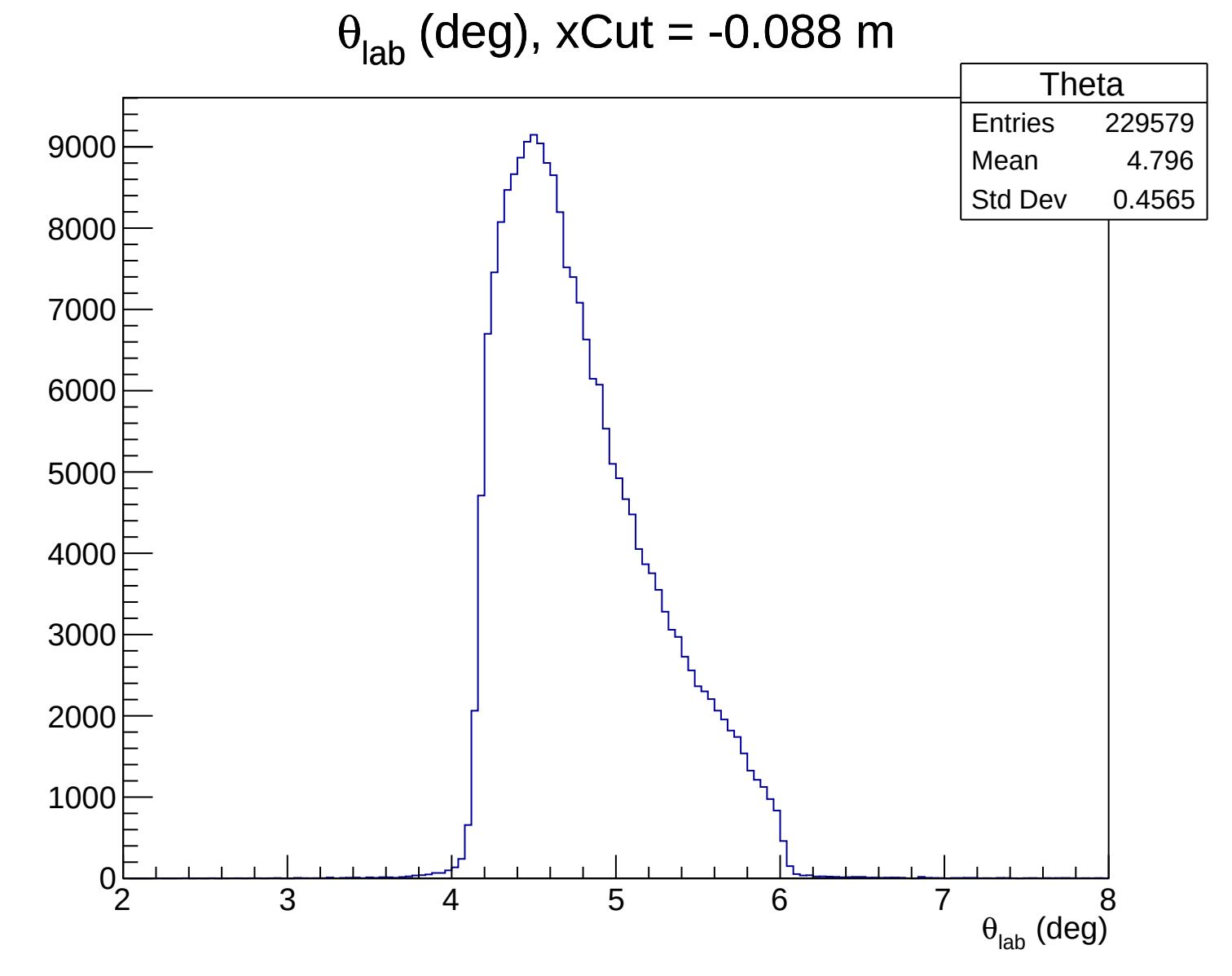

Sensitivity, xCut = -0.086 m
sens
Entries 227124
Mean 0.02234
Std Dev 0.003904
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

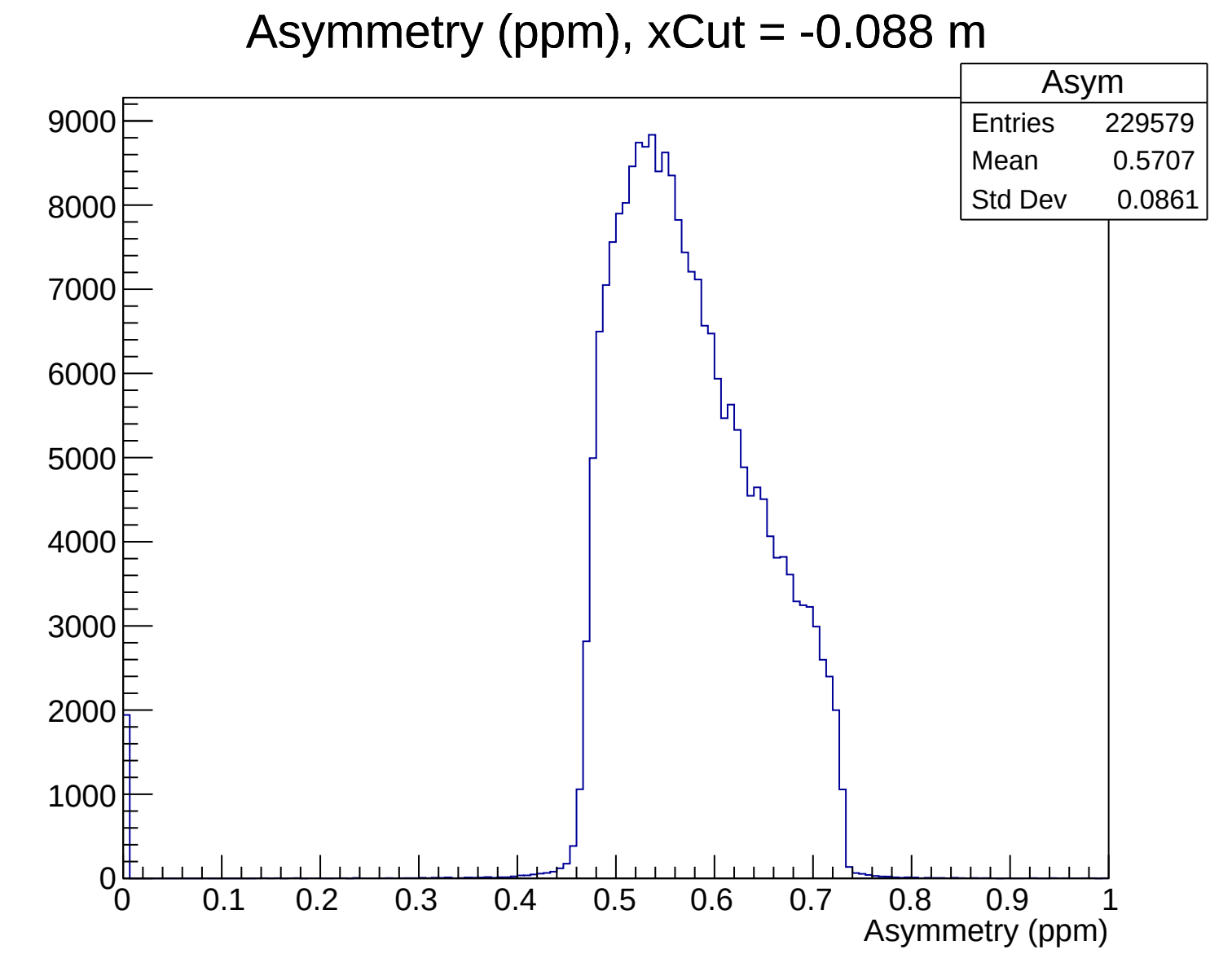

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

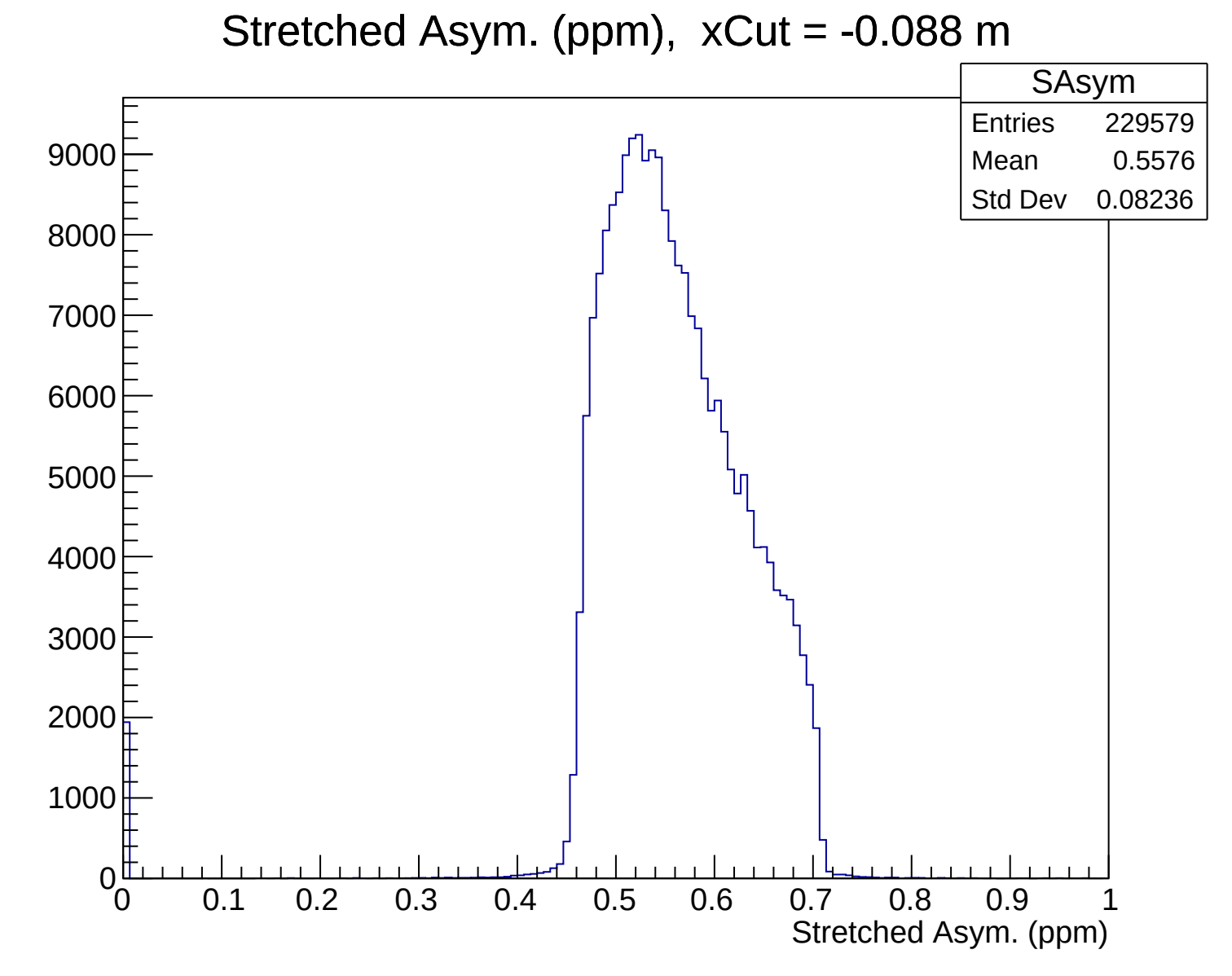

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

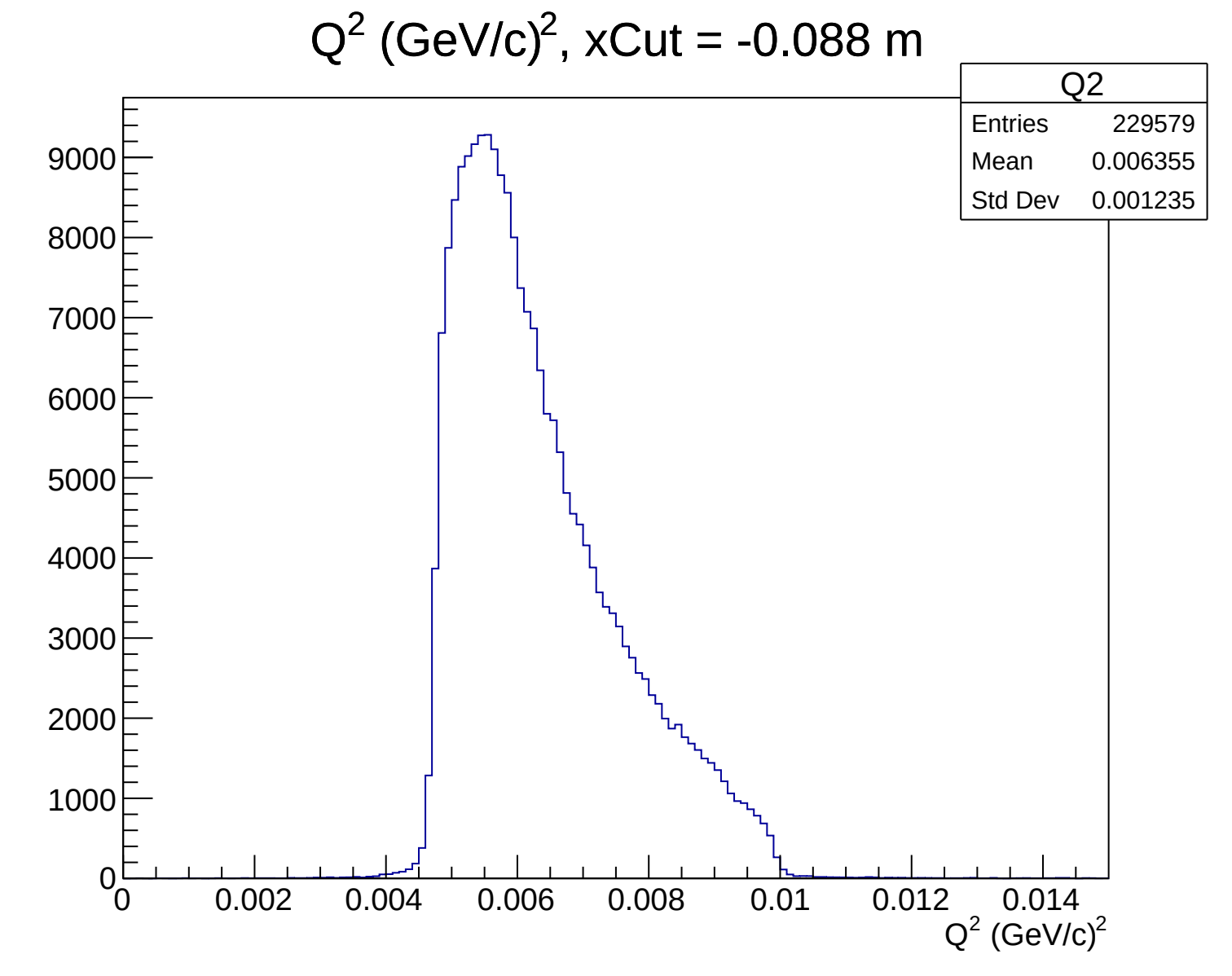

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.088
R.tr.x[0]+1.3*R.tr.th[0] (m)

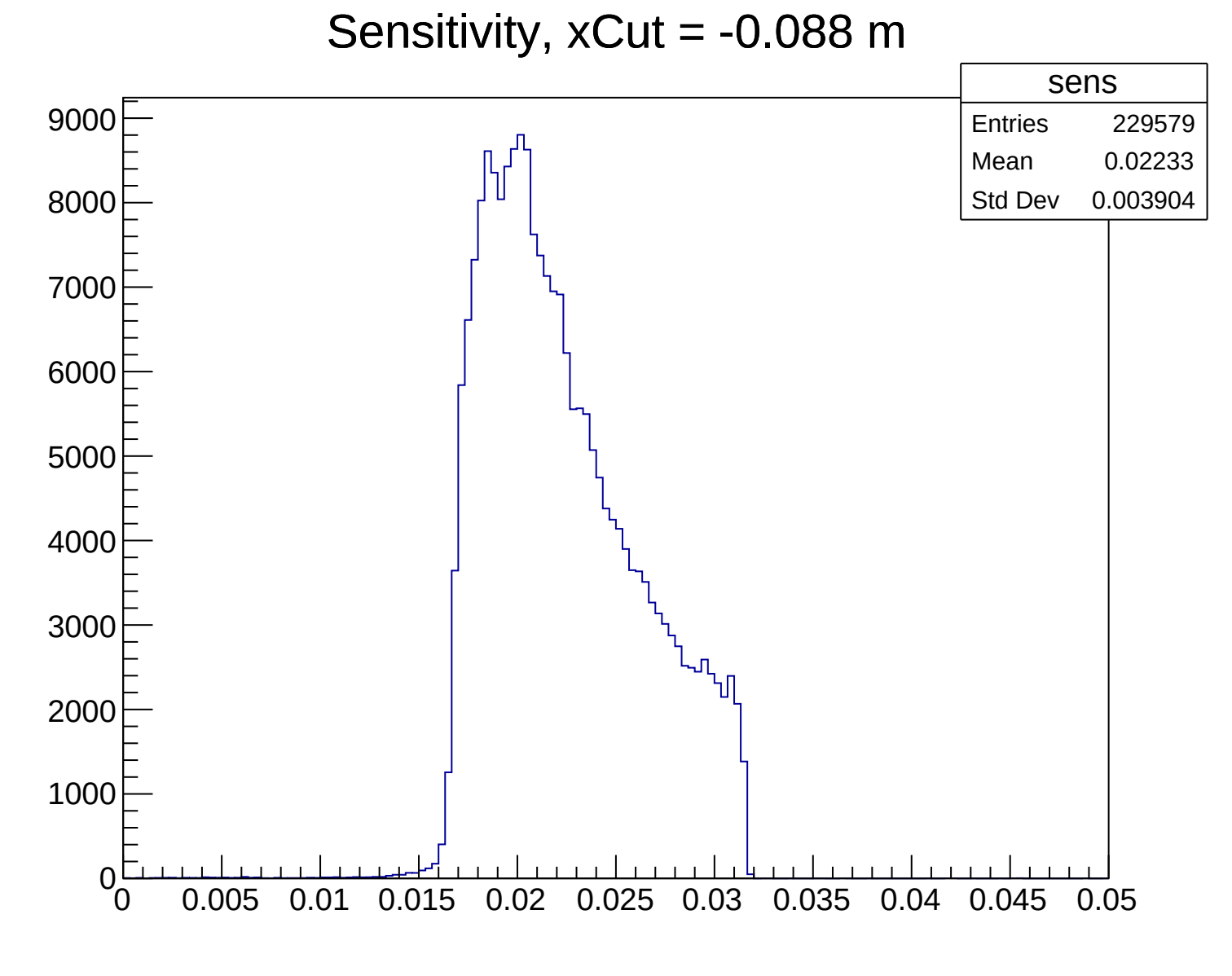

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

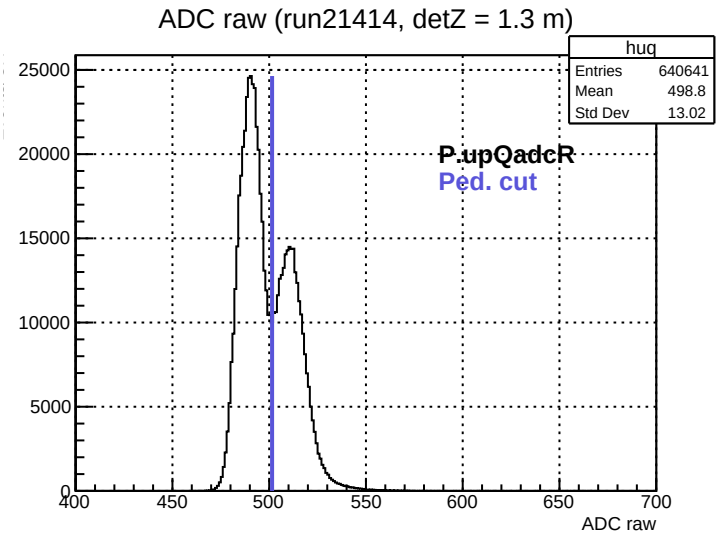

θlab (deg), xCut = -0.088 m
Theta
Entries 229579
Mean 4.796
Std Dev 0.4565
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

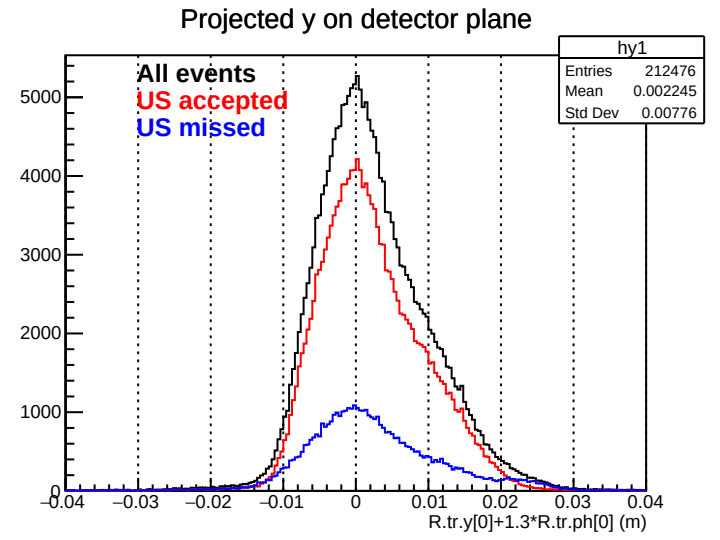

Asymmetry (ppm), xCut = -0.088 m
Asym
Entries 229579
Mean 0.5707
Std Dev 0.0861
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

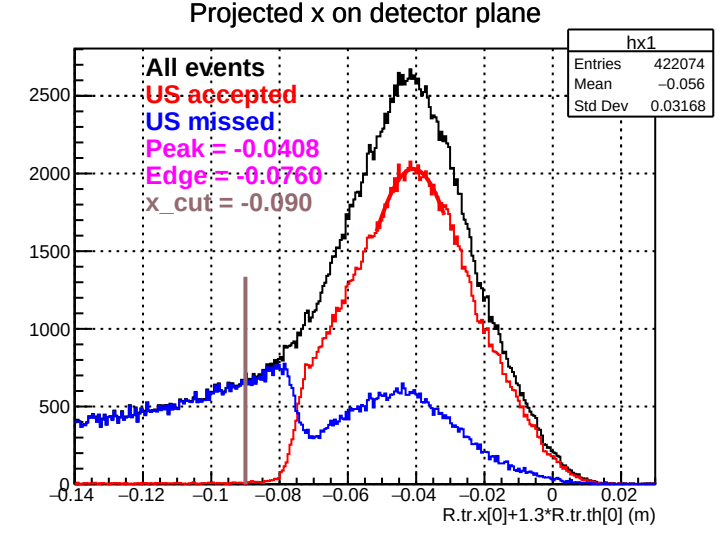

Stretched Asym. (ppm), xCut = -0.088 m
SAsym
Entries 229579
Mean 0.5576
Std Dev 0.08236
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

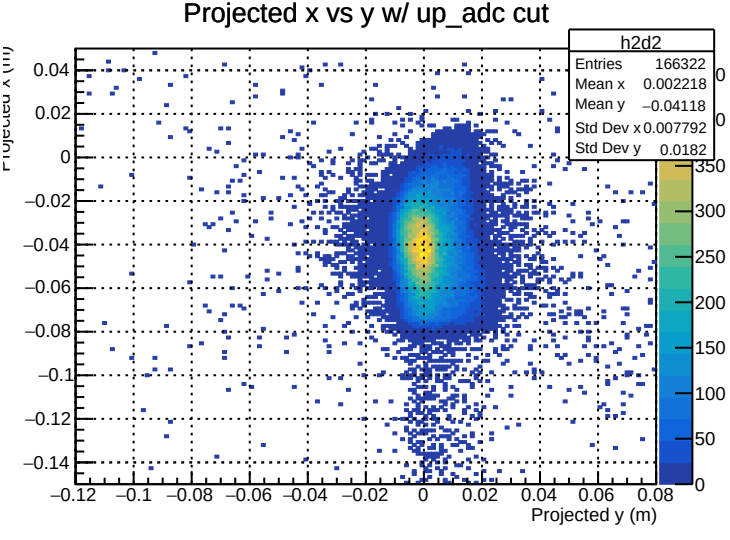

Q^2 (GeV/c)^2, xCut = -0.088 m
Q2
Entries 229579
Mean 0.006355
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

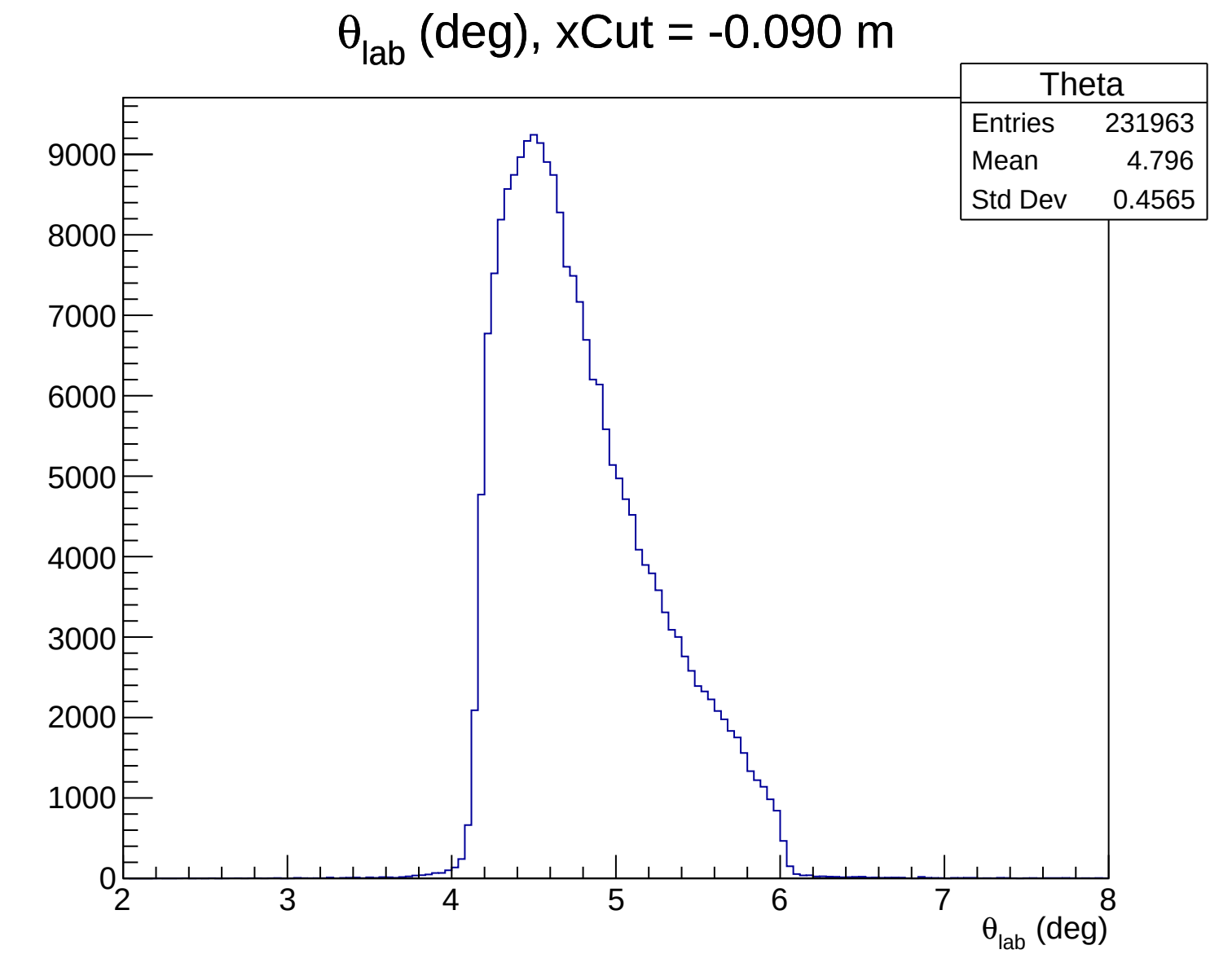

Sensitivity, xCut = -0.088 m
sens
Entries 229579
Mean 0.02233
Std Dev 0.003904
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

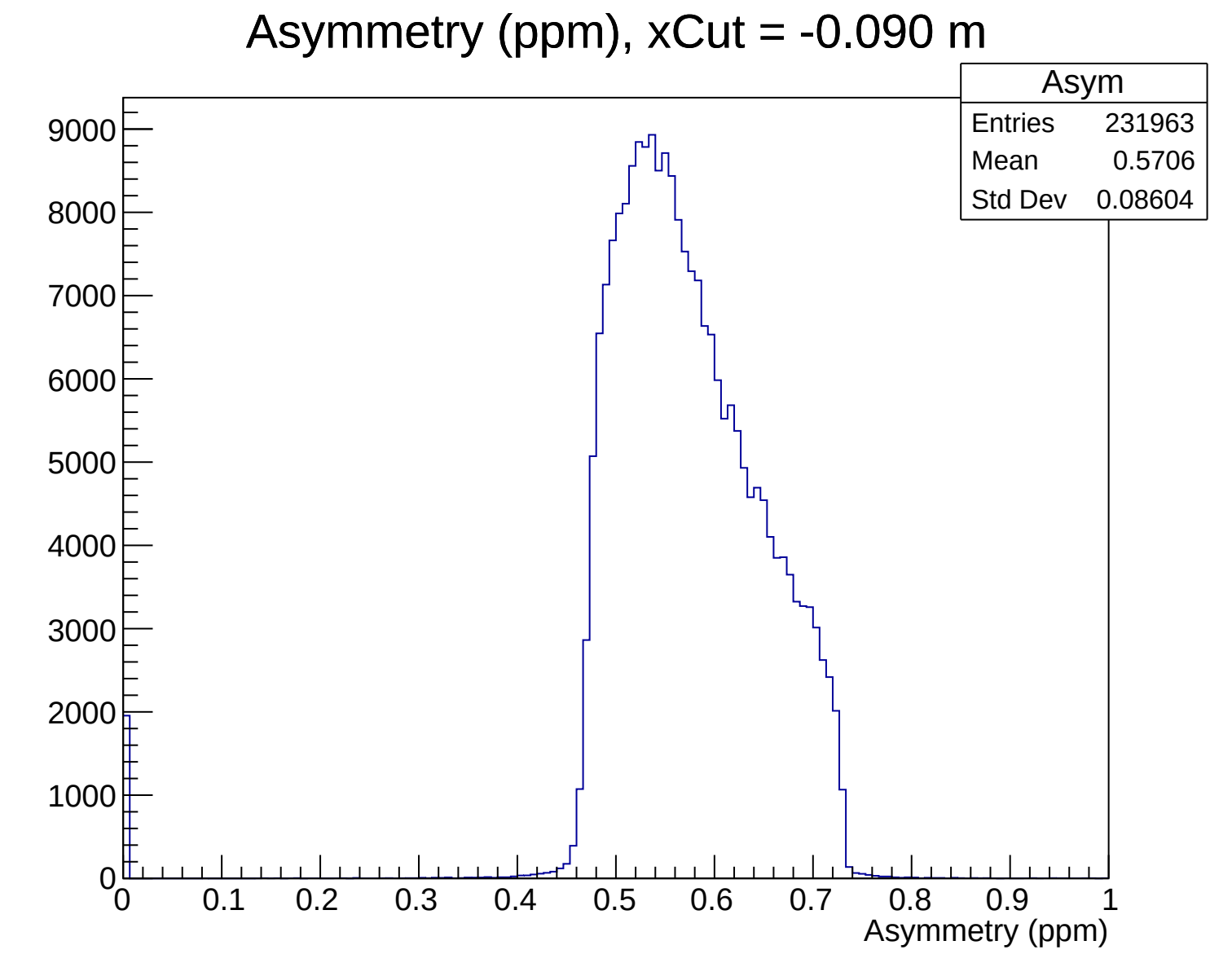

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

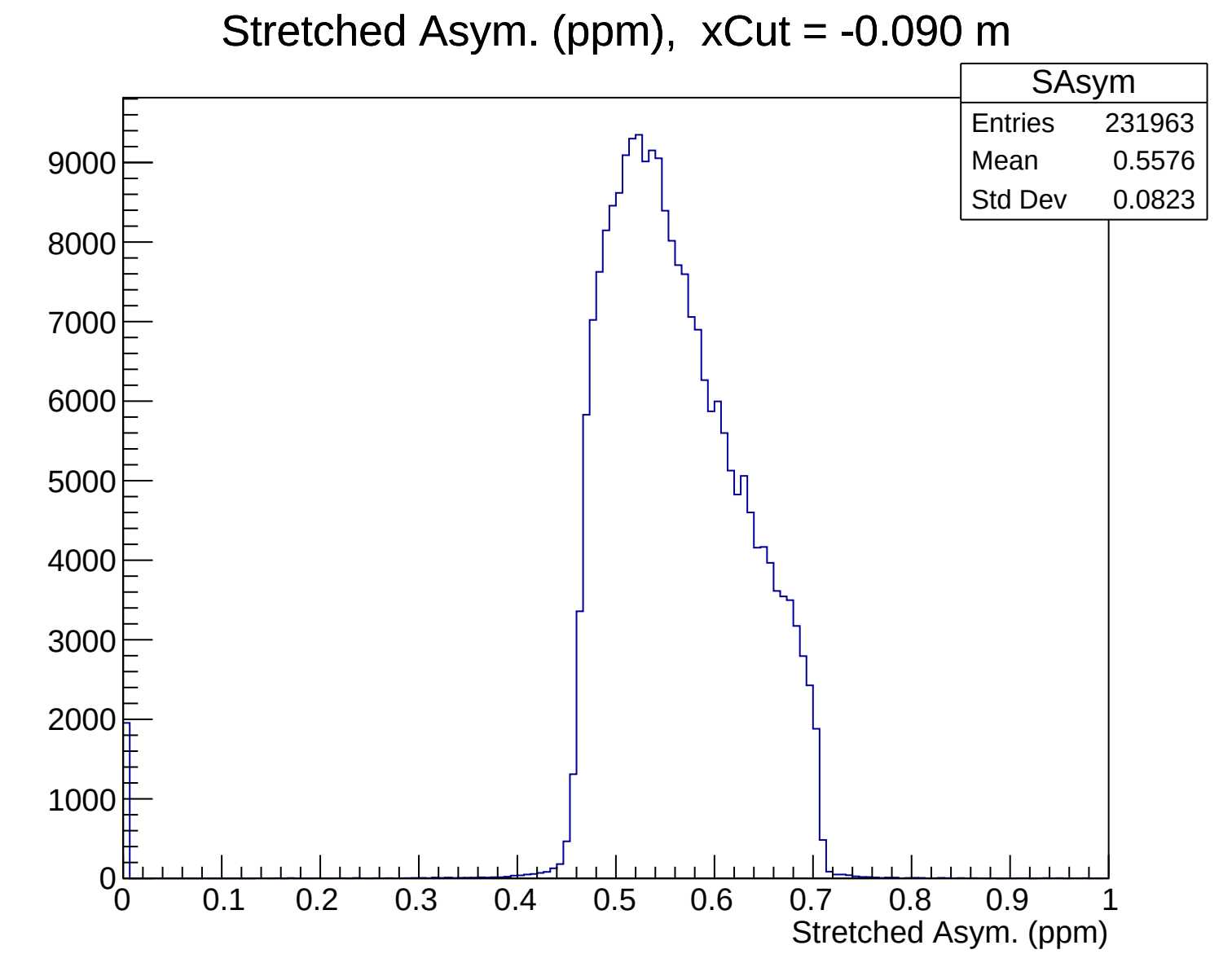

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

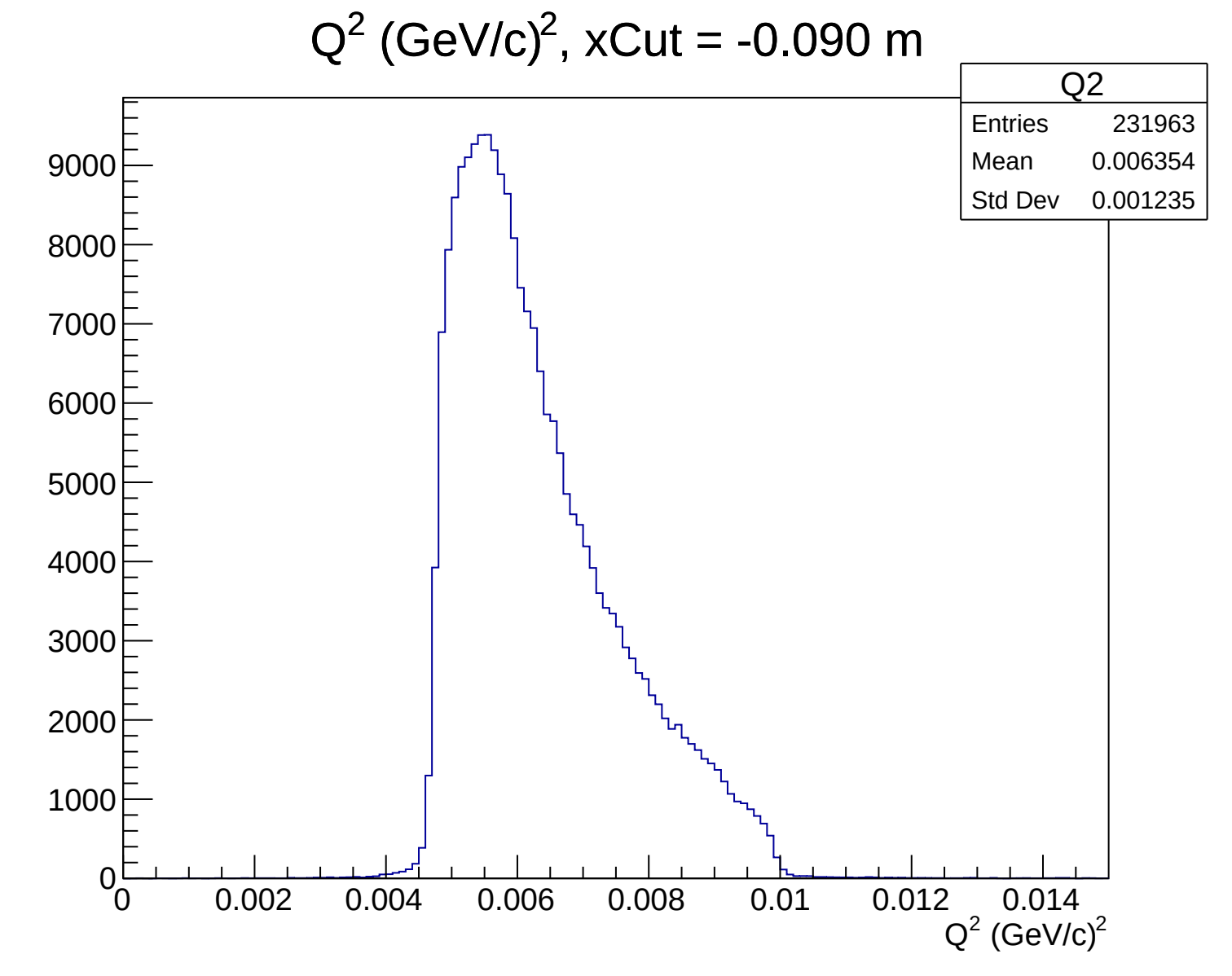

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.090
R.tr.x[0]+1.3*R.tr.th[0] (m)

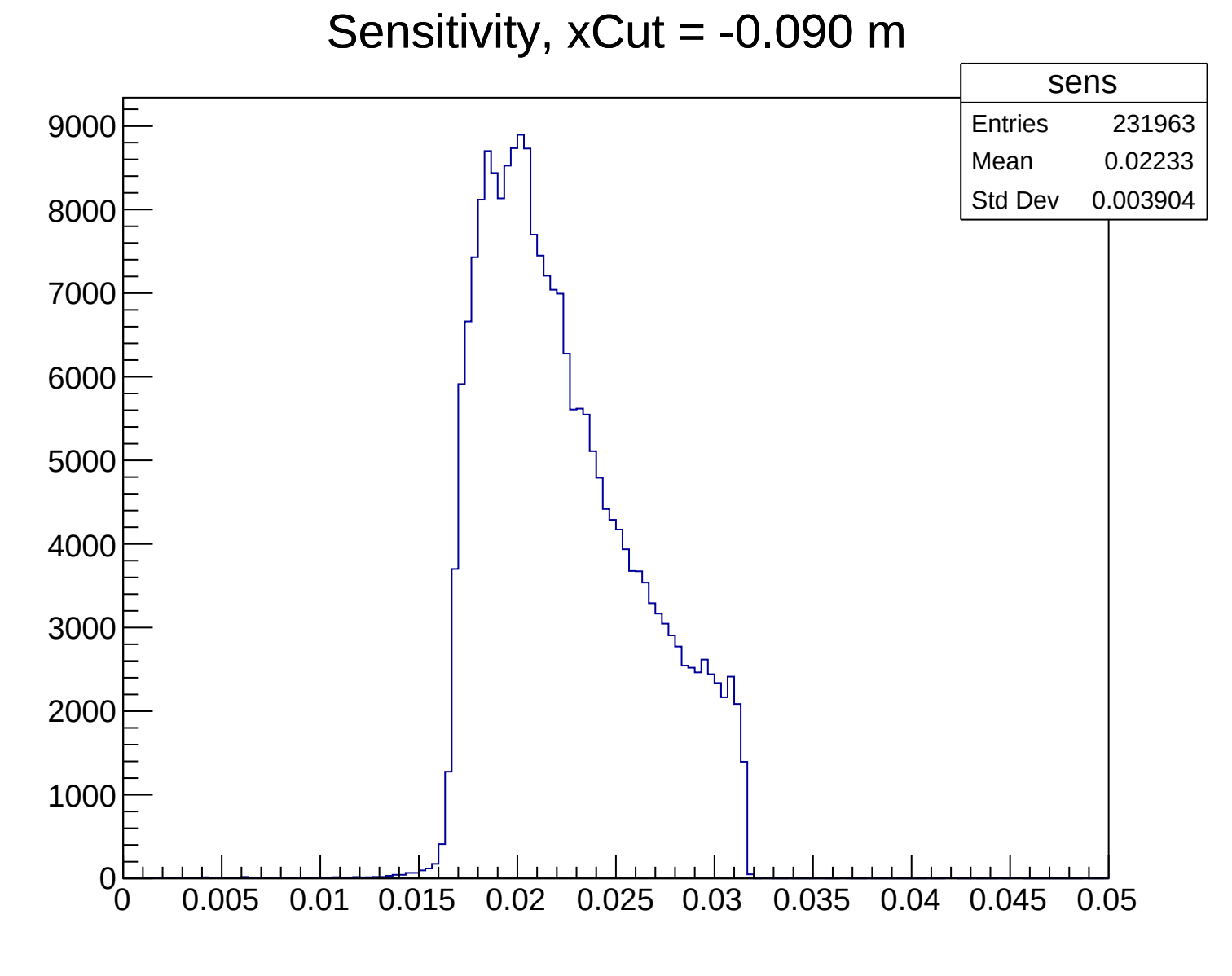

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

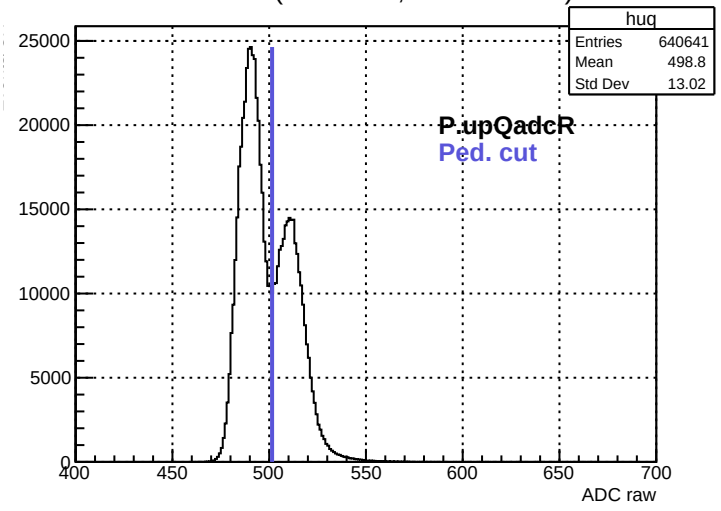

θlab (deg), xCut = -0.090 m
Theta
Entries 231963
Mean 4.796
Std Dev 0.4565
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

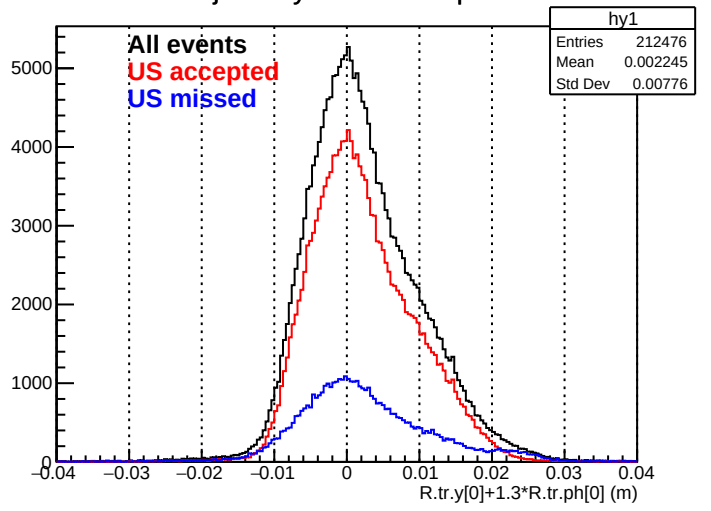

Asymmetry (ppm), xCut = -0.090 m
Asym
Entries 231963
Mean 0.5706
Std Dev 0.08604
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

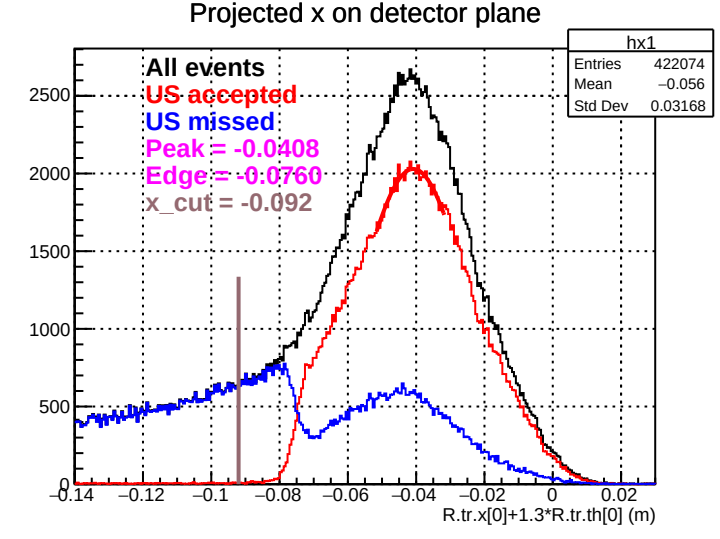

Stretched Asym. (ppm), xCut = -0.090 m
SAsym
Entries 231963
Mean 0.5576
Std Dev 0.0823
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

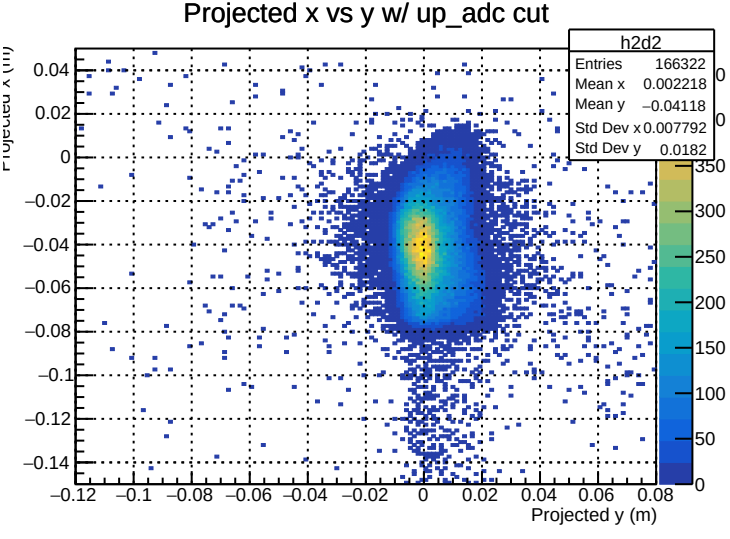

Q^2 (GeV/c)^2, xCut = -0.090 m
Q2
Entries 231963
Mean 0.006354
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

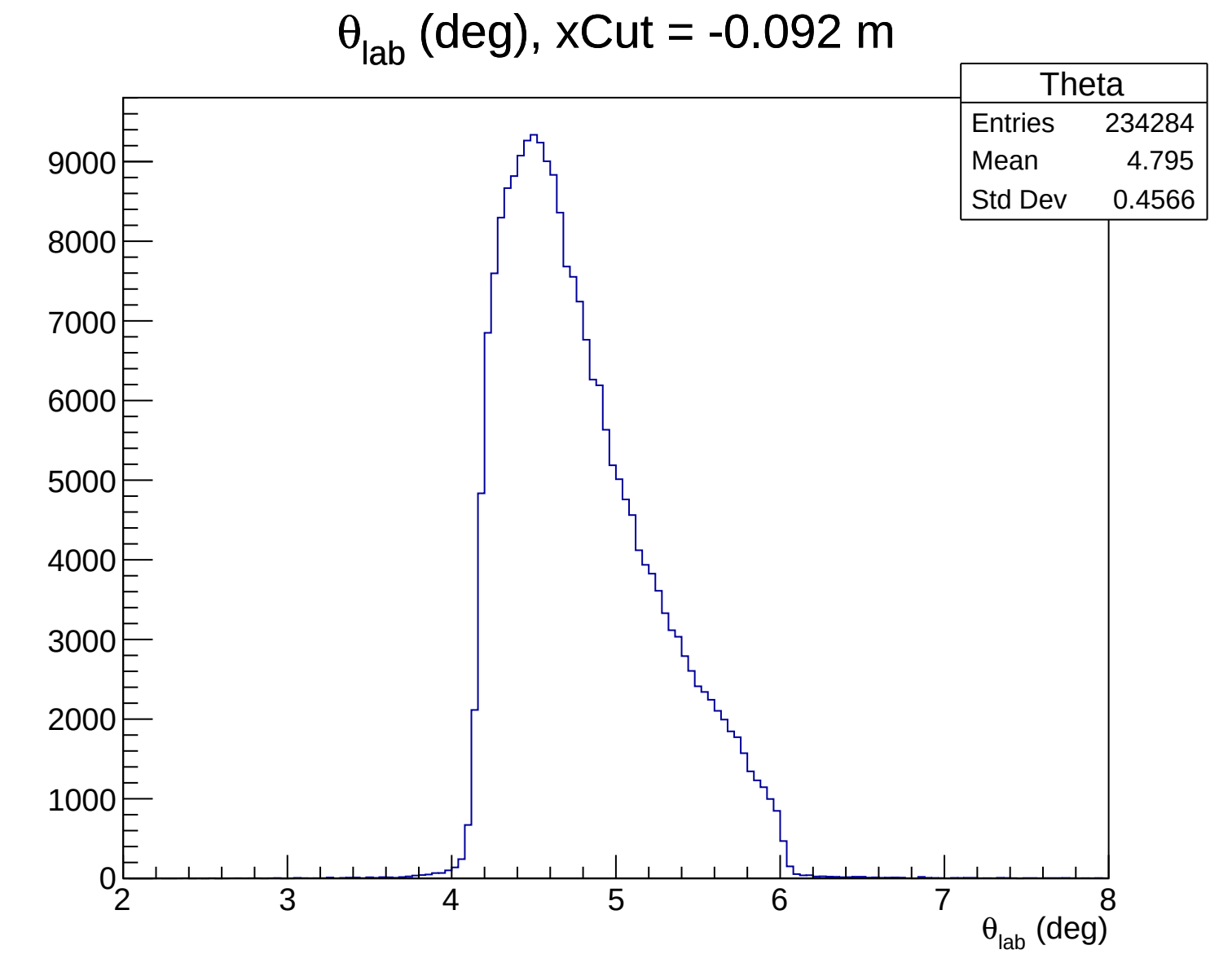

Sensitivity, xCut = -0.090 m
sens
Entries 231963
Mean 0.02233
Std Dev 0.003904
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

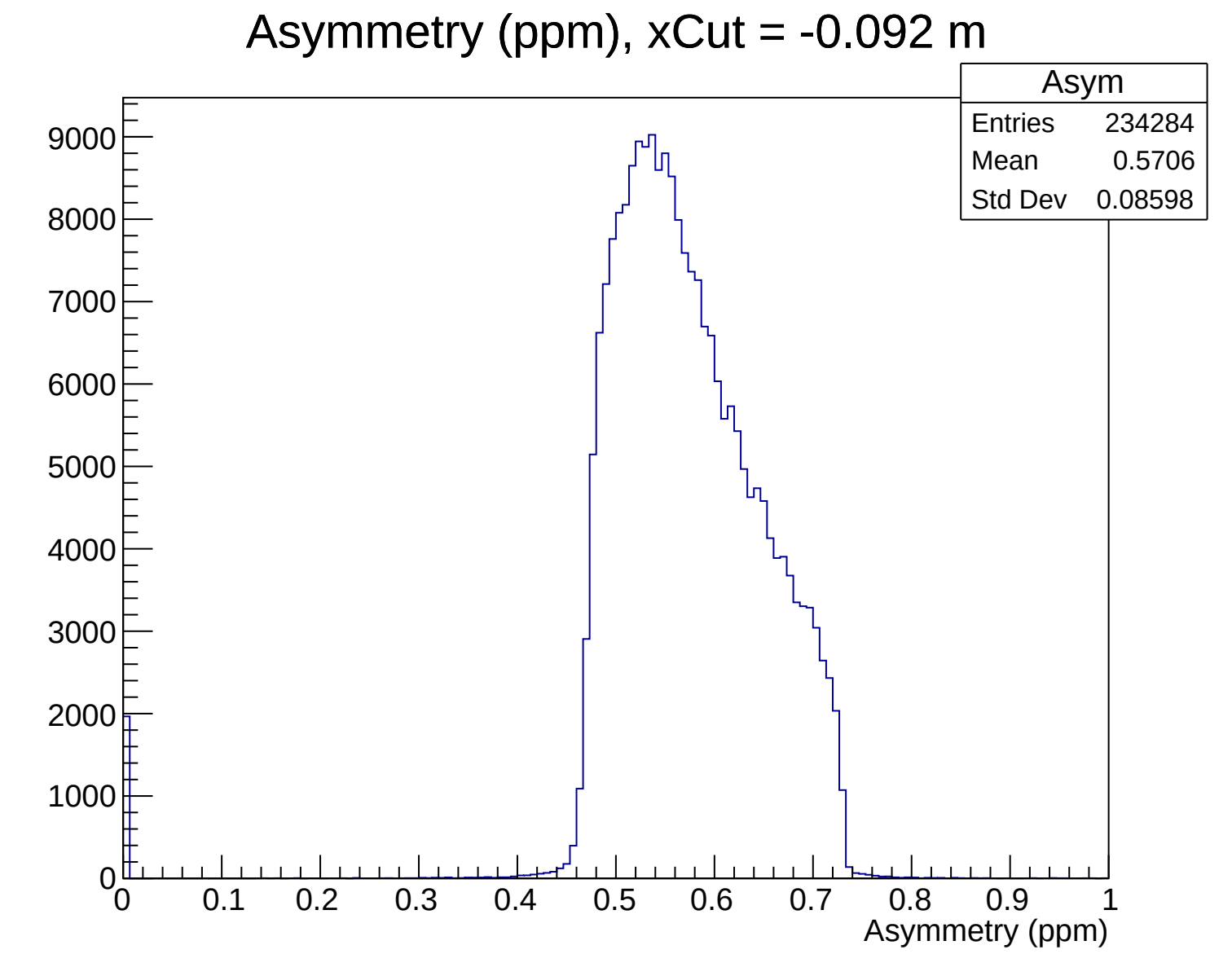

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

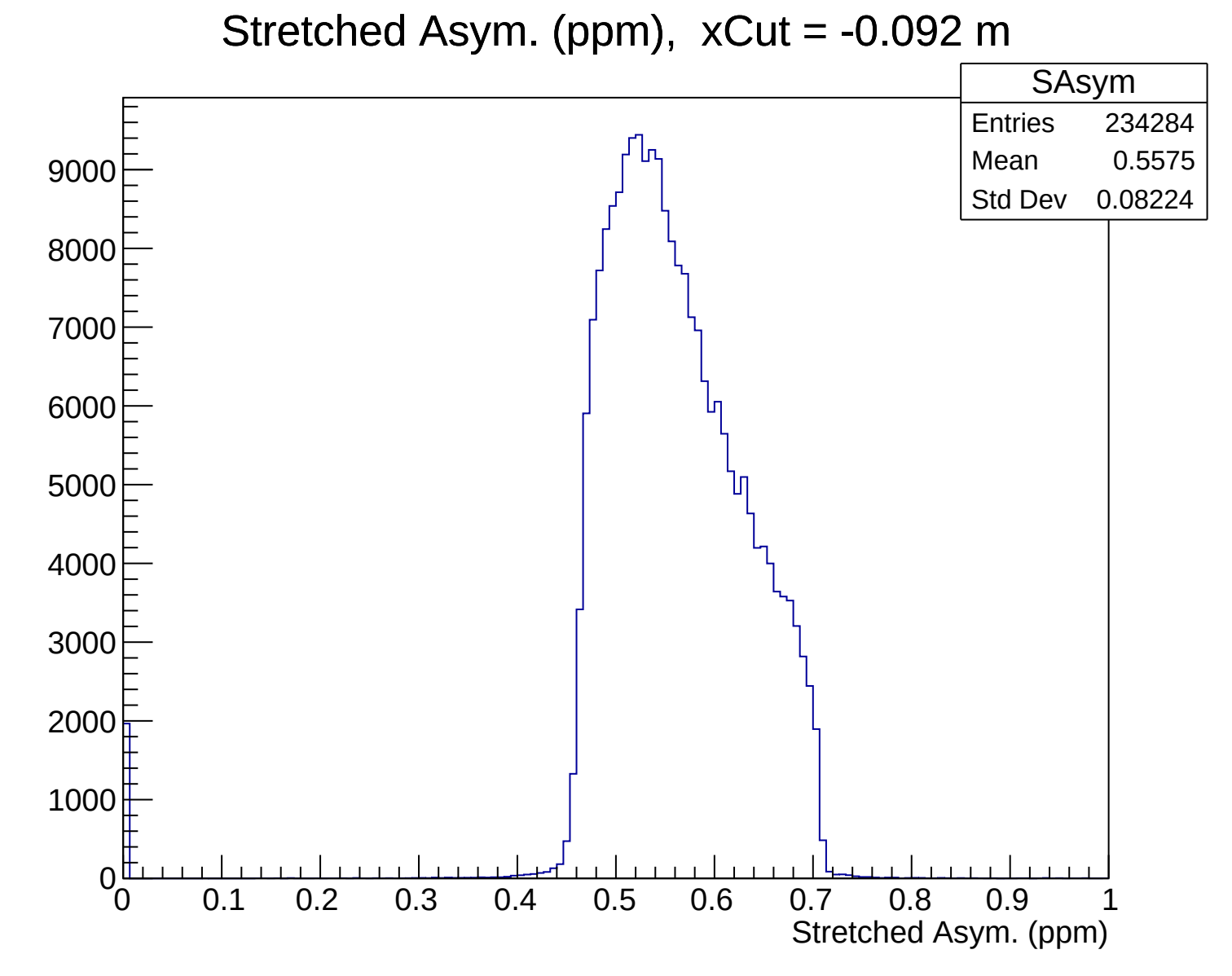

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

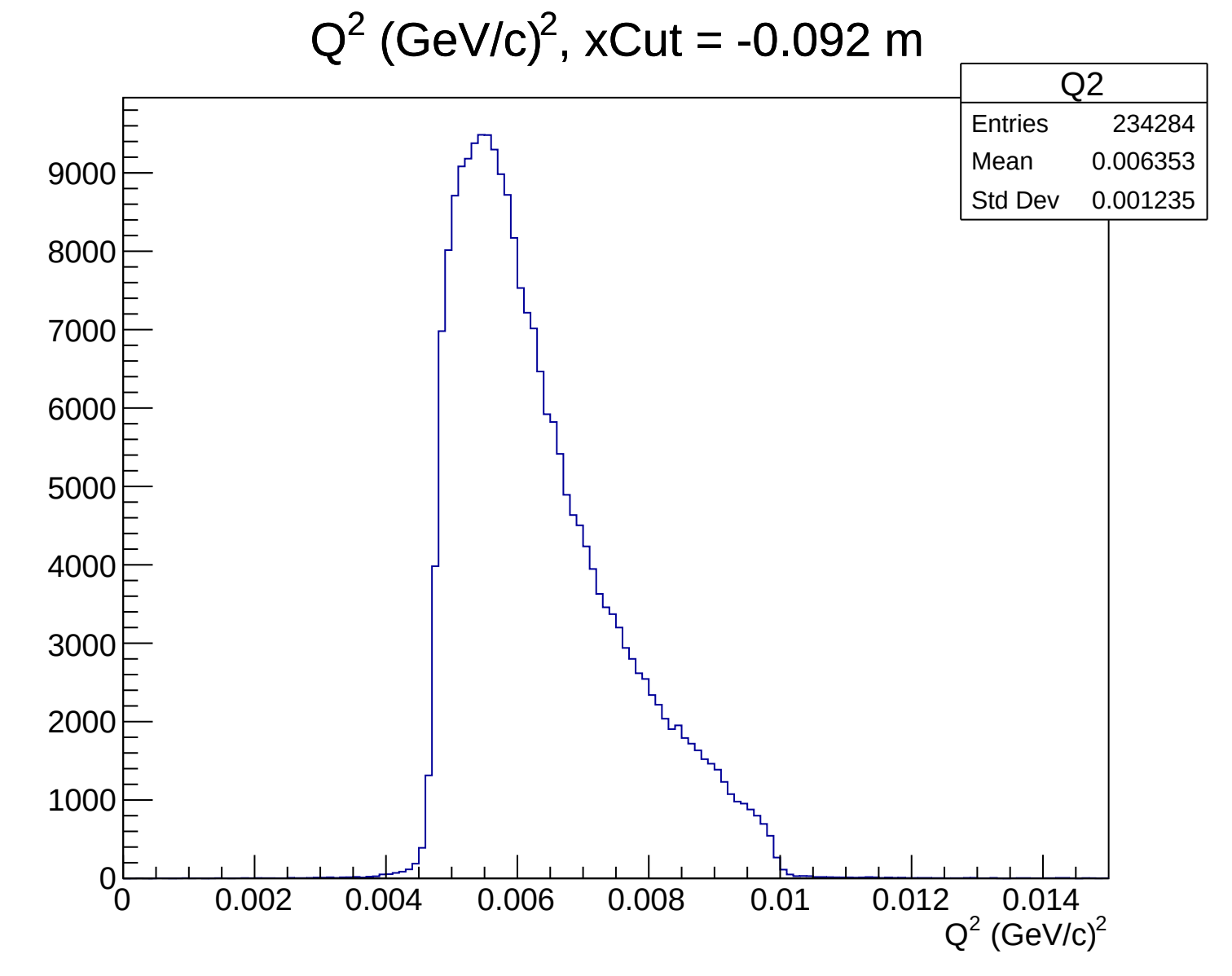

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.092
R.tr.x[0]+1.3*R.tr.th[0] (m)

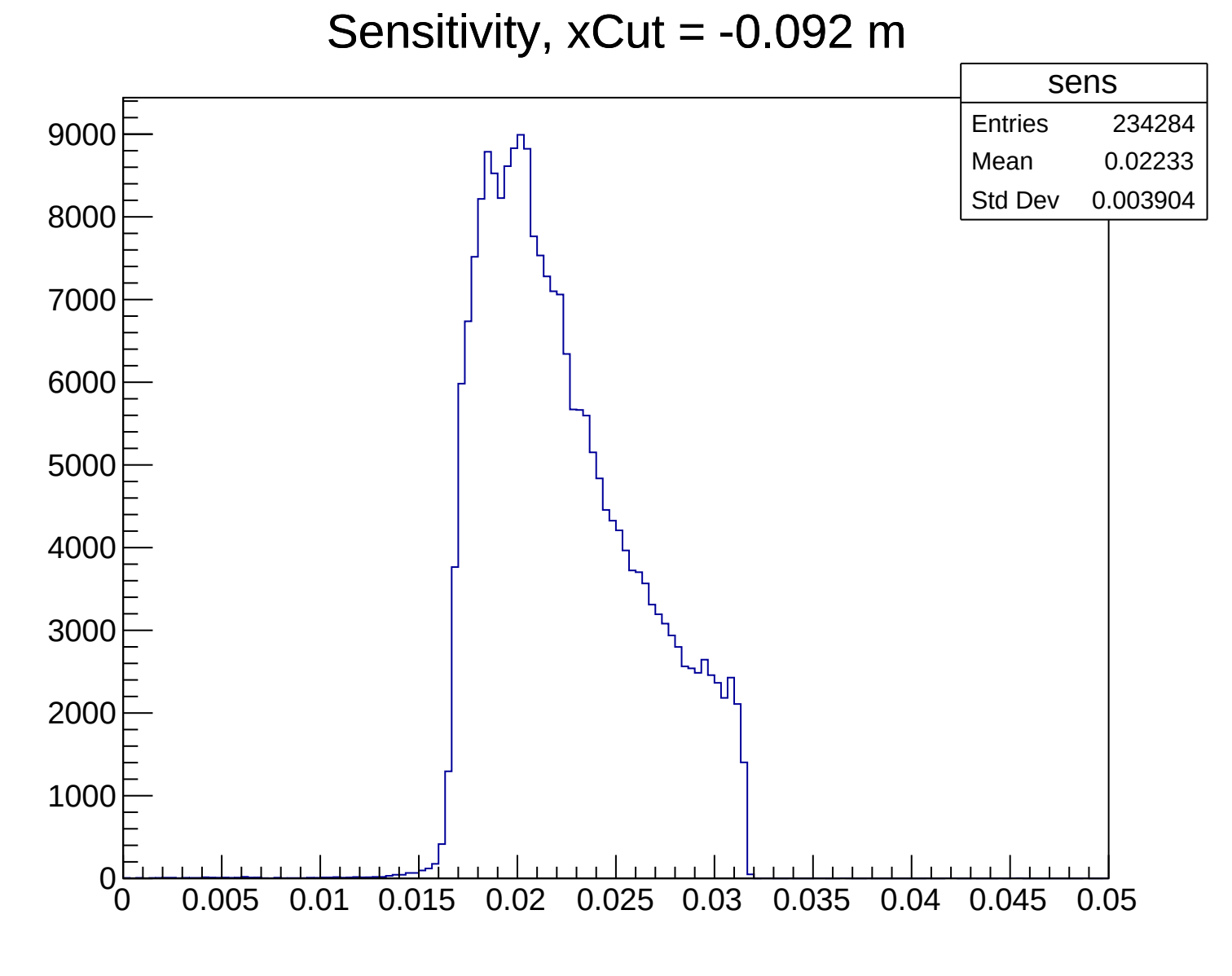

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

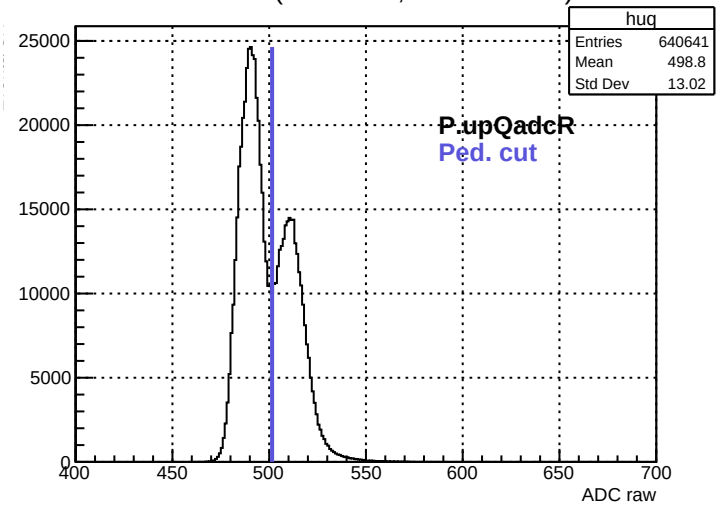

θlab (deg), xCut = -0.092 m
Theta
Entries 234284
Mean 4.795
Std Dev 0.4566
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

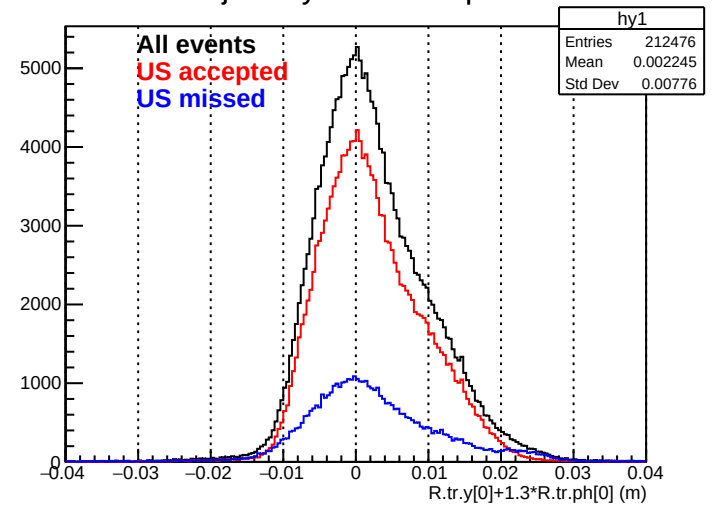

Asymmetry (ppm), xCut = -0.092 m
Asym
Entries 234284
Mean 0.5706
Std Dev 0.08598
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

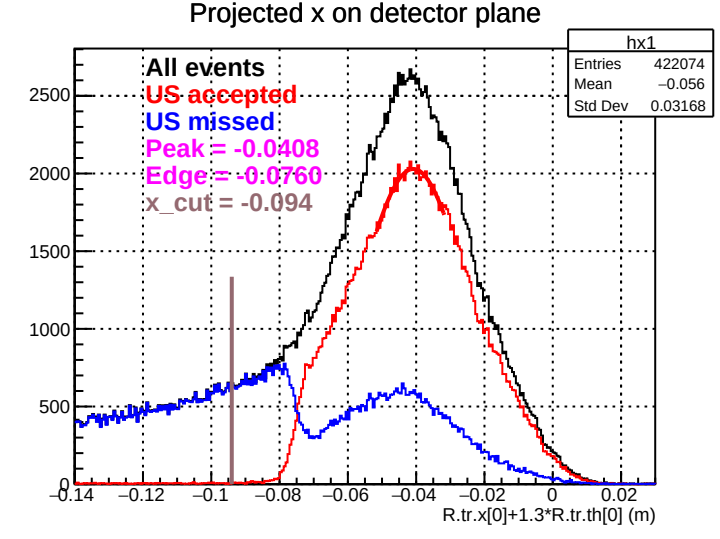

Stretched Asym. (ppm), xCut = -0.092 m
SAsym
Entries 234284
Mean 0.5575
Std Dev 0.08224
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

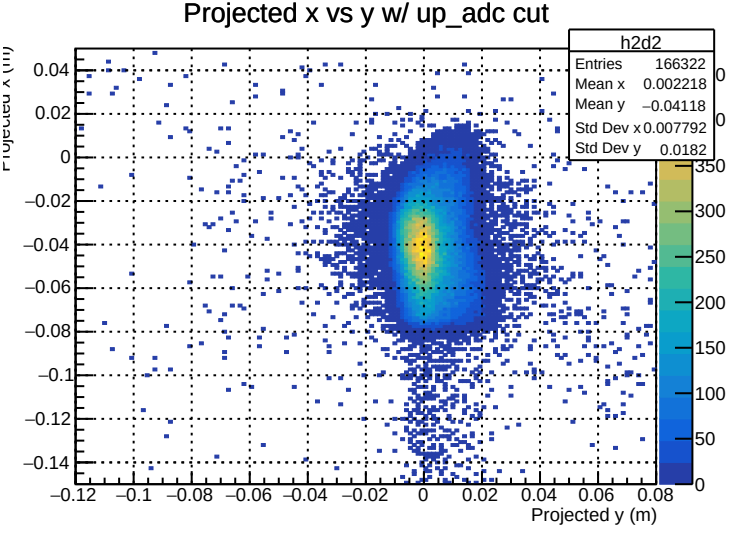

Q^2 (GeV/c)^2, xCut = -0.092 m
Q2
Entries 234284
Mean 0.006353
Std Dev 0.001235
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

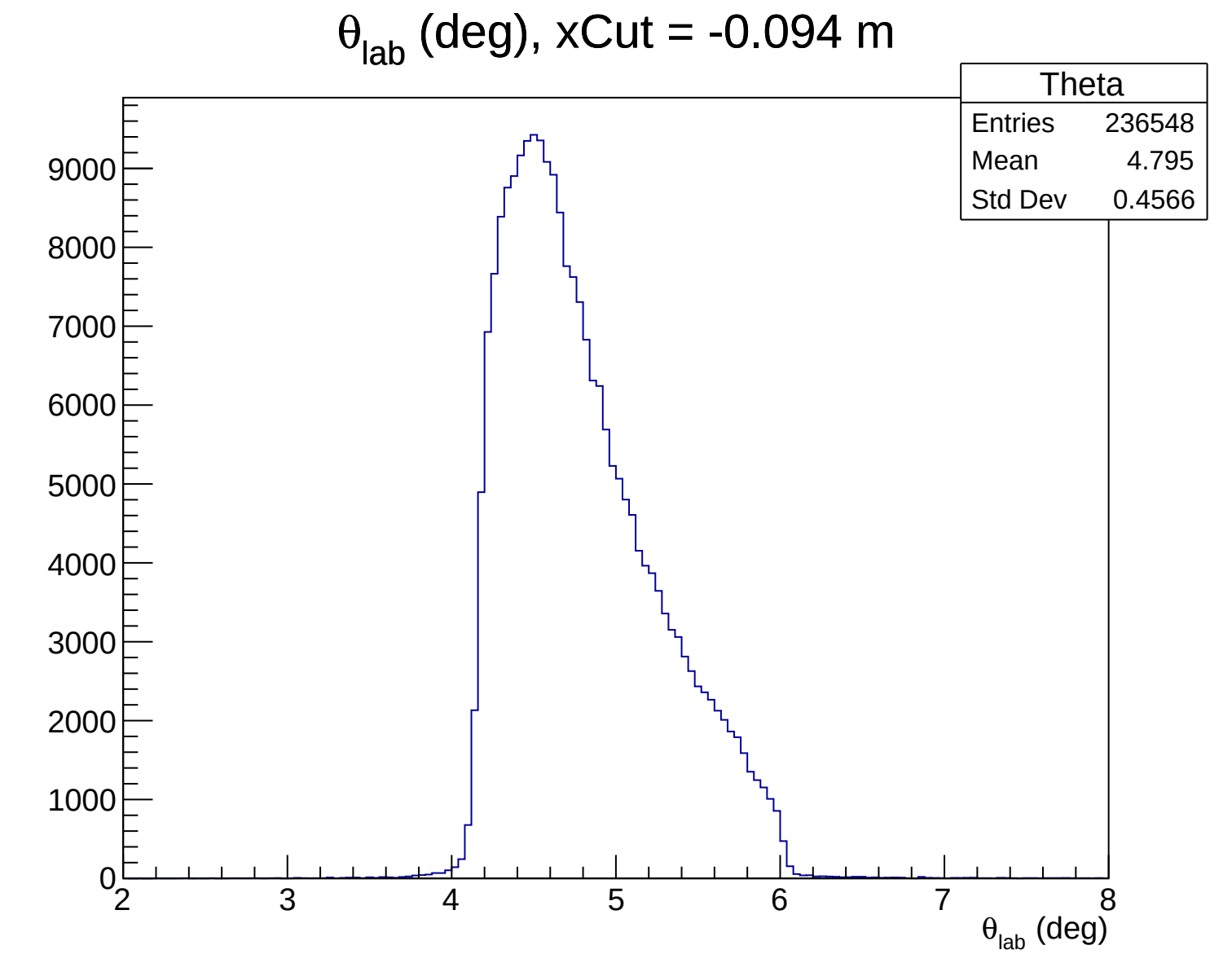

Sensitivity, xCut = -0.092 m
sens
Entries 234284
Mean 0.02233
Std Dev 0.003904
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

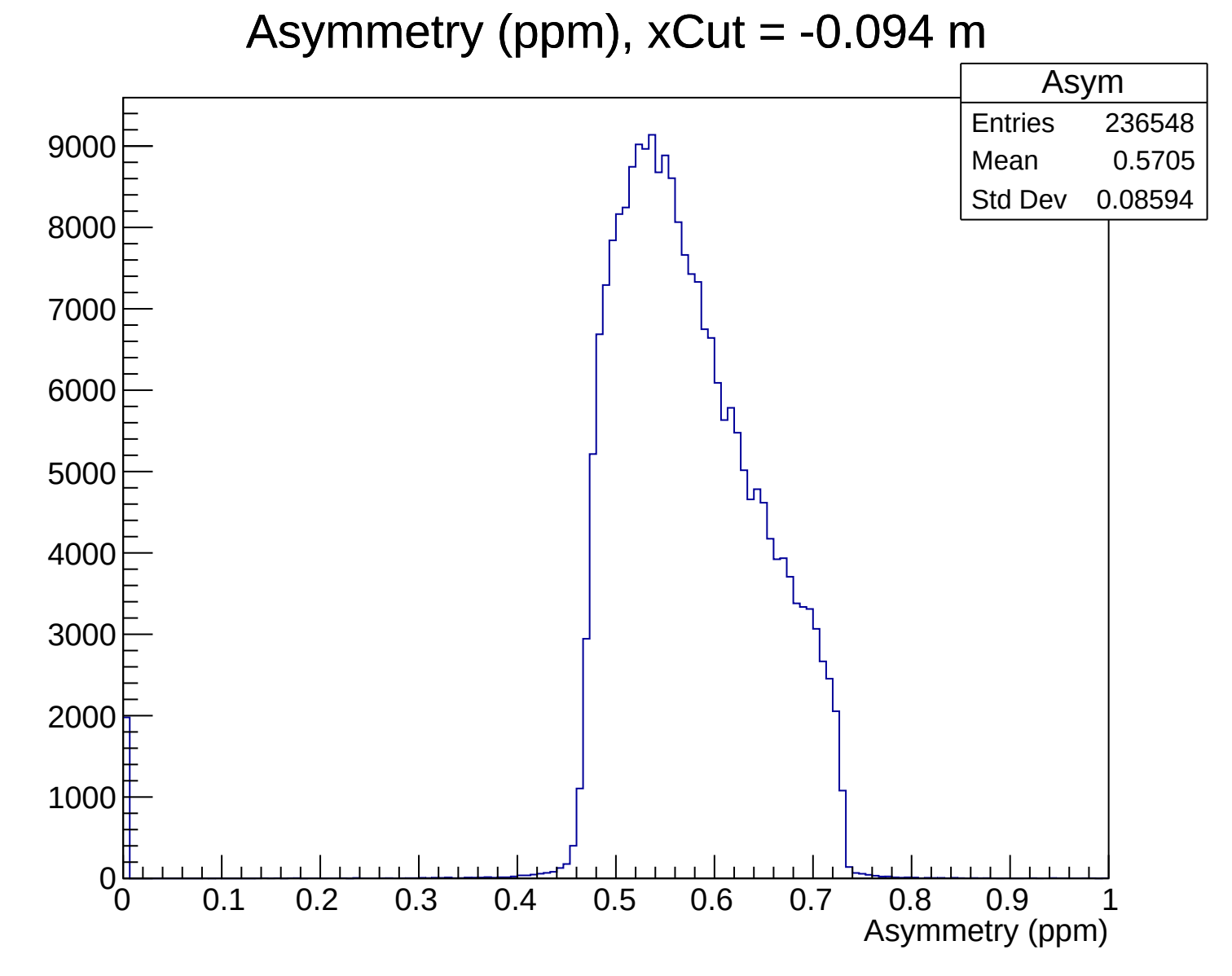

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

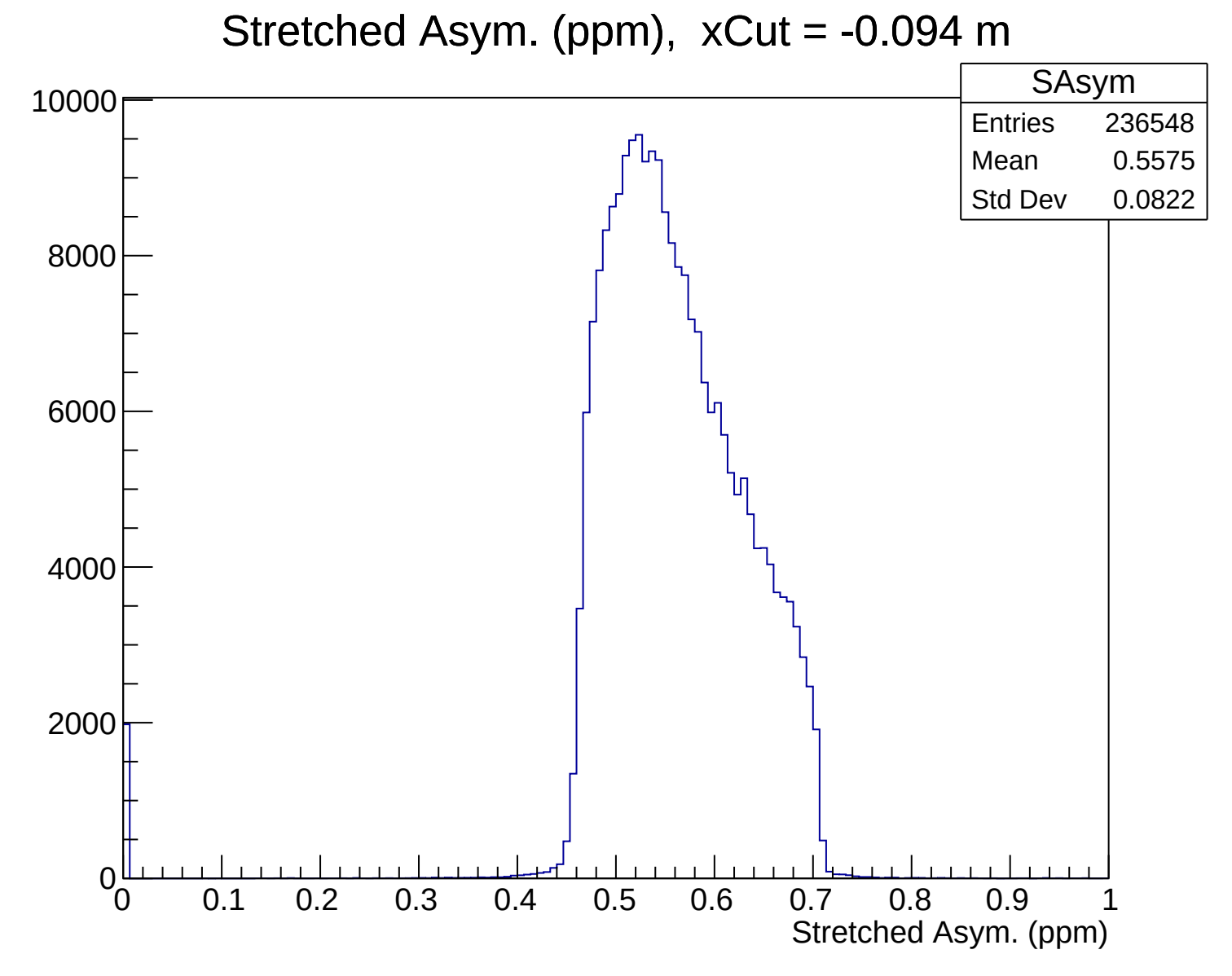

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

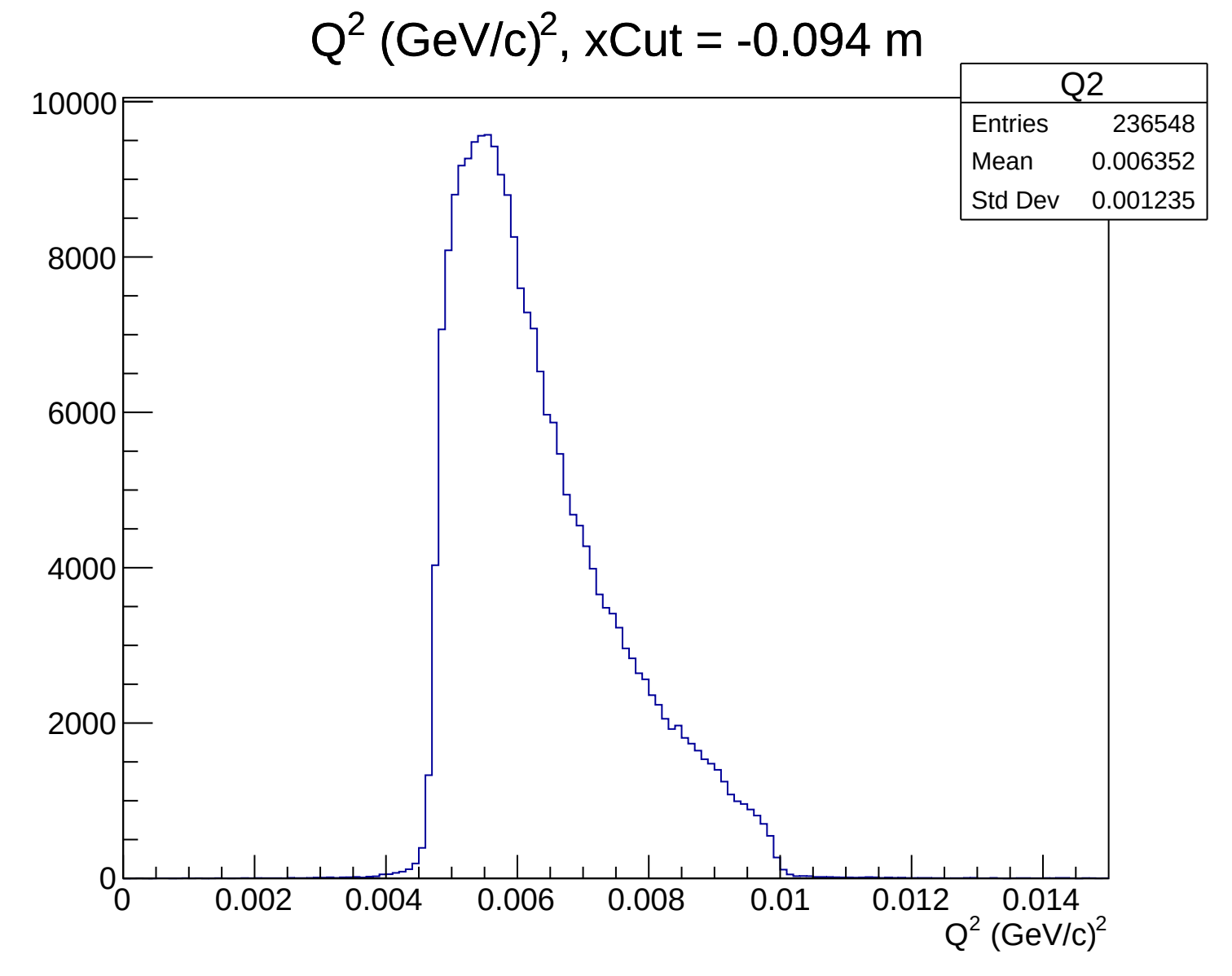

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.094
R.tr.x[0]+1.3*R.tr.th[0] (m)

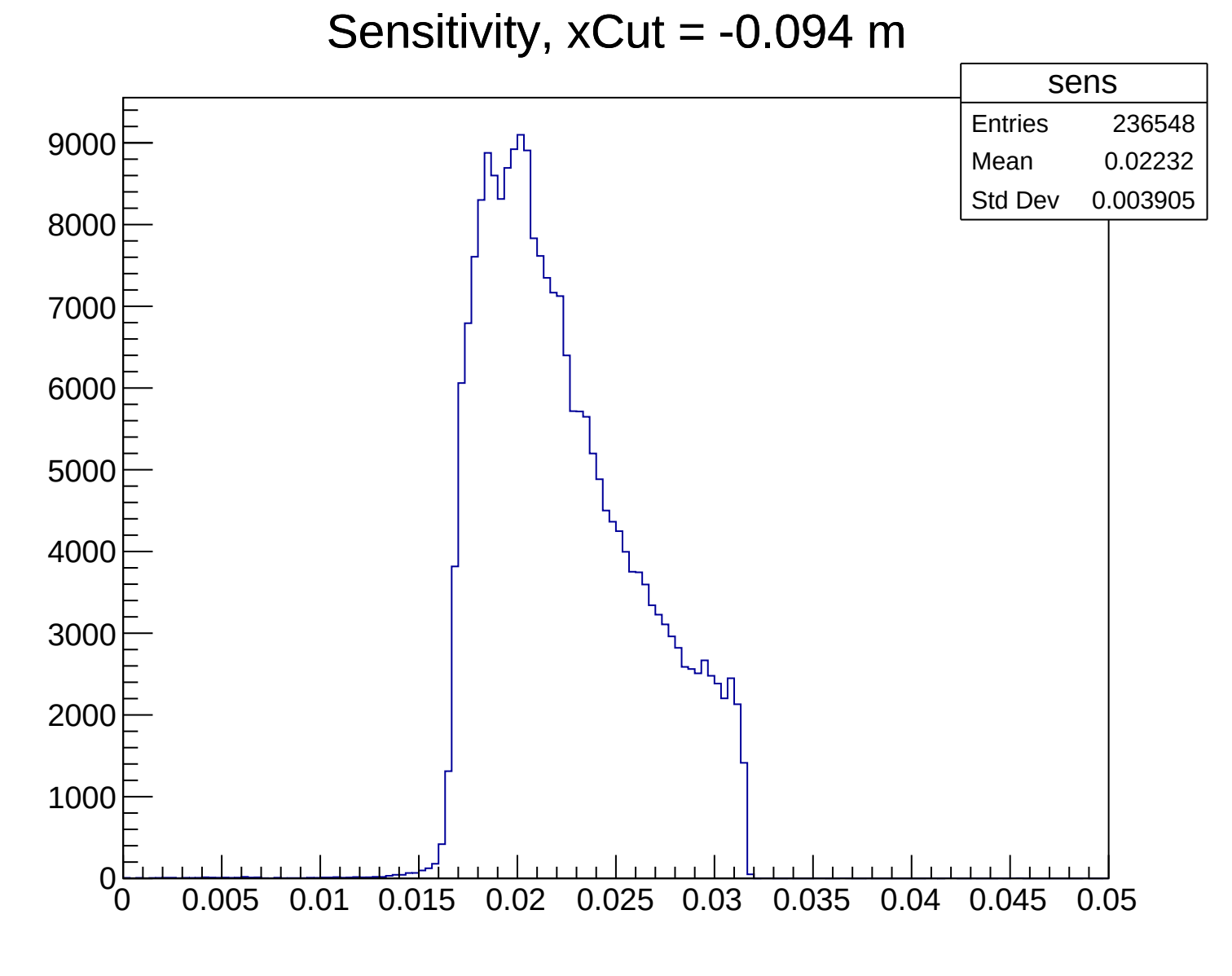

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

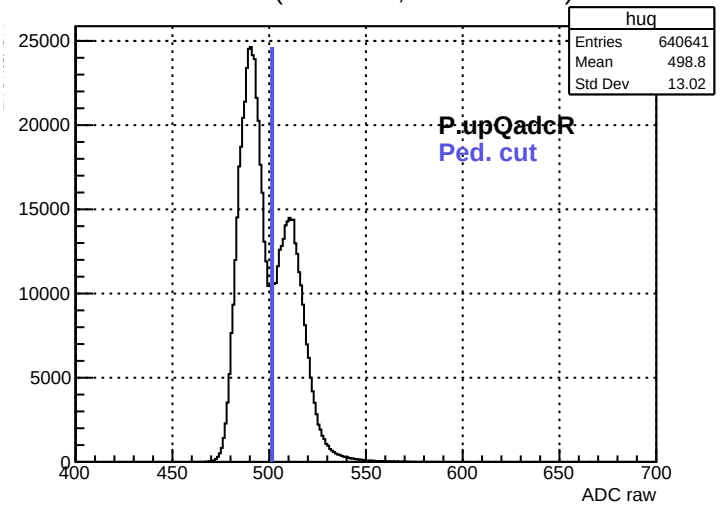

θlab (deg), xCut = -0.094 m
Theta
Entries 236548
Mean 4.795
Std Dev 0.4566
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

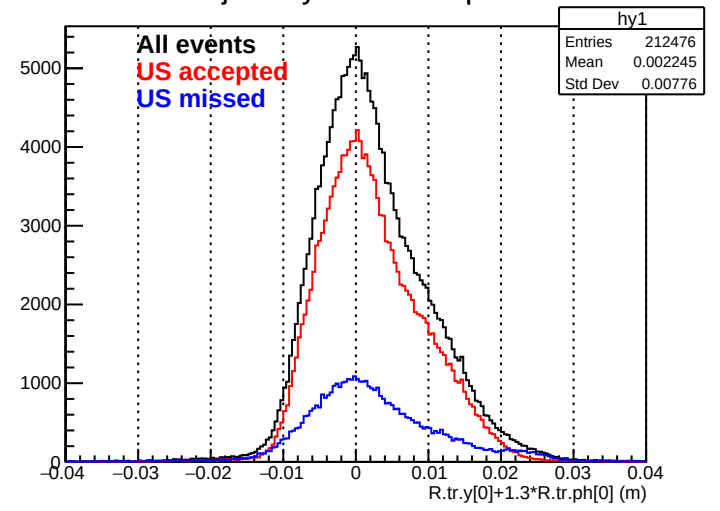

Asymmetry (ppm), xCut = -0.094 m
Asym
Entries 236548
Mean 0.5705
Std Dev 0.08594
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

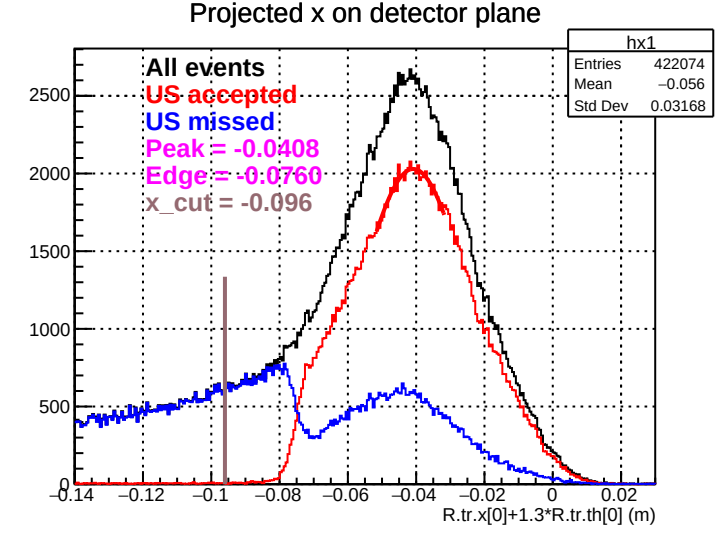

Stretched Asym. (ppm), xCut = -0.094 m
SAsym
Entries 236548
Mean 0.5575
Std Dev 0.0822
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

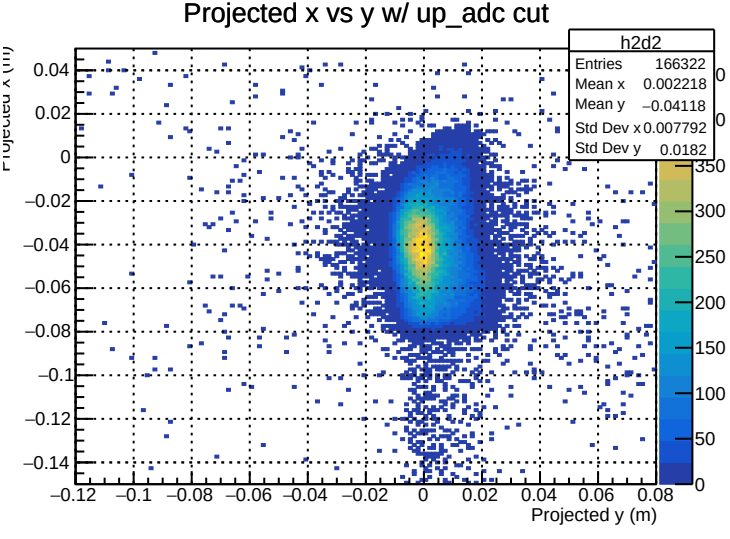

Q^2 (GeV/c)^2, xCut = -0.094 m
Q2
Entries 236548
Mean 0.006352
Std Dev 0.001235
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

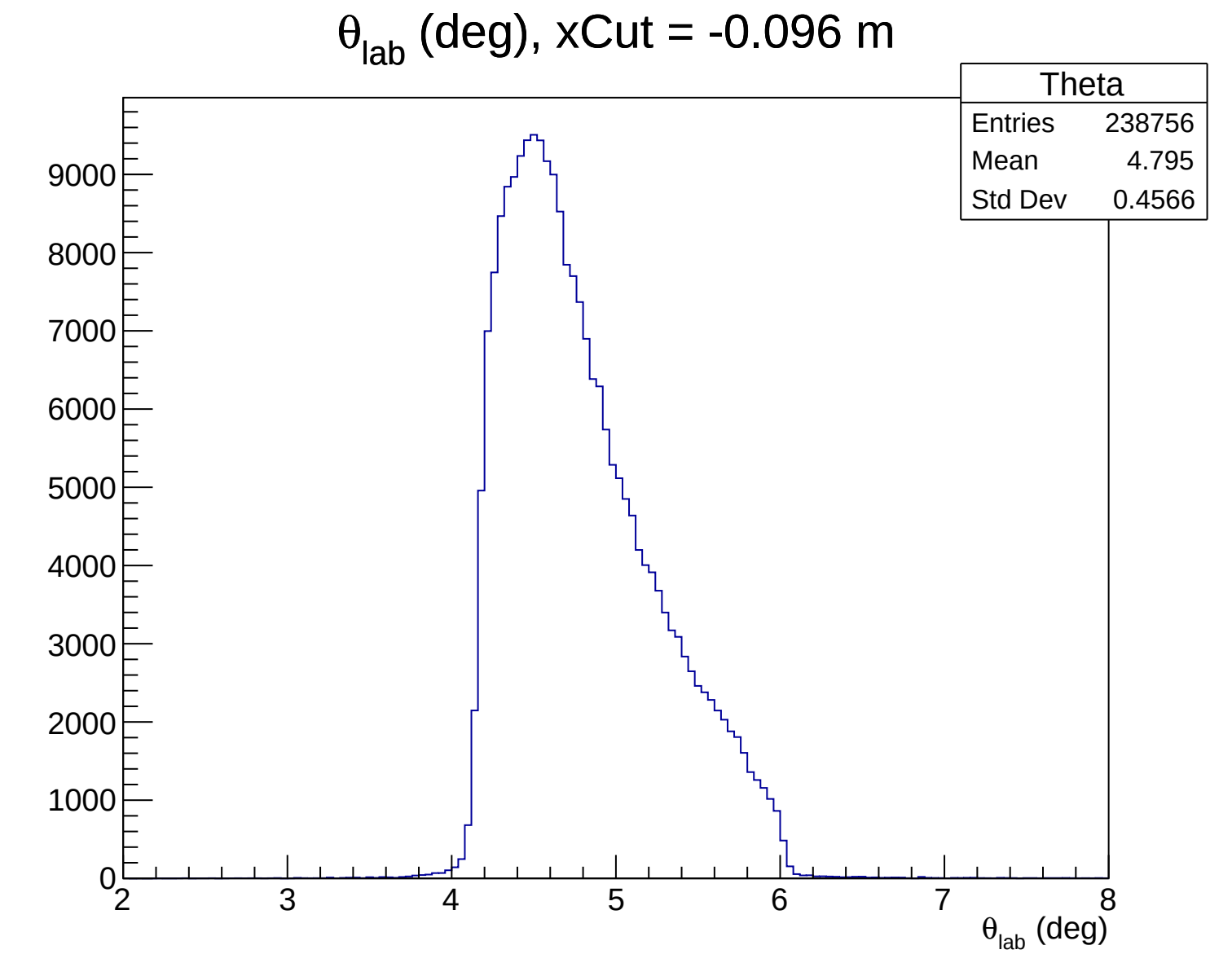

Sensitivity, xCut = -0.094 m
sens
Entries 236548
Mean 0.02232
Std Dev 0.003905
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

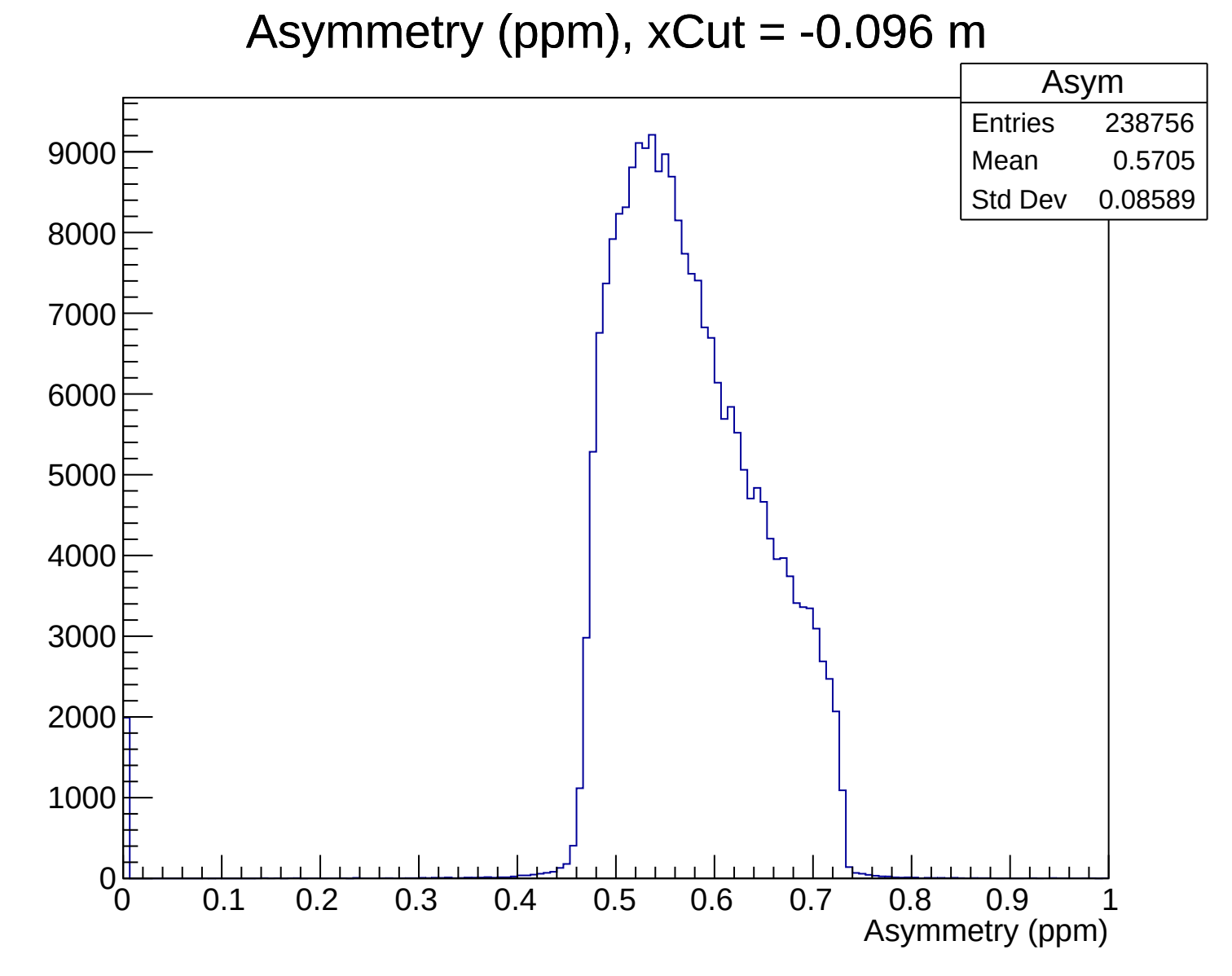

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

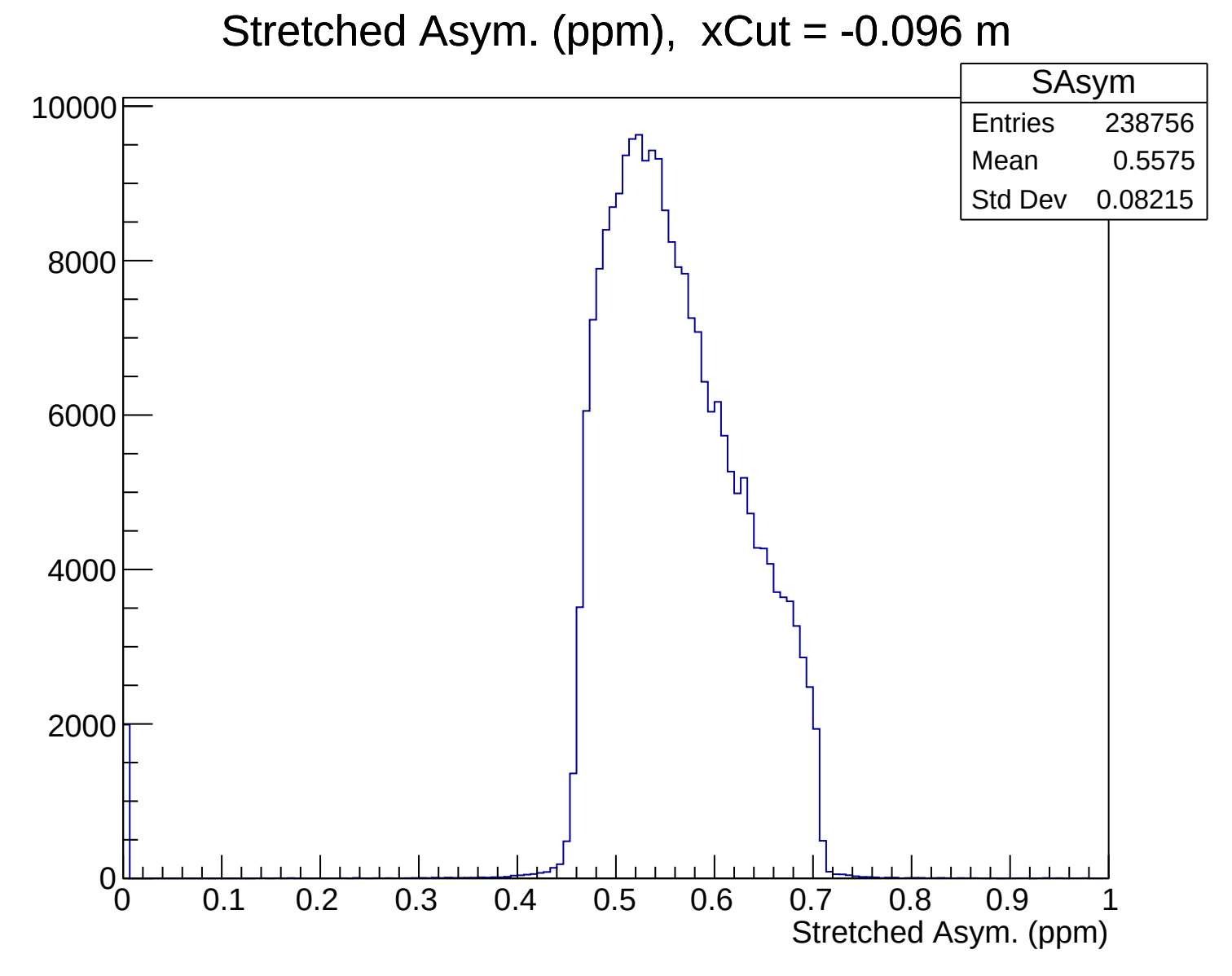

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

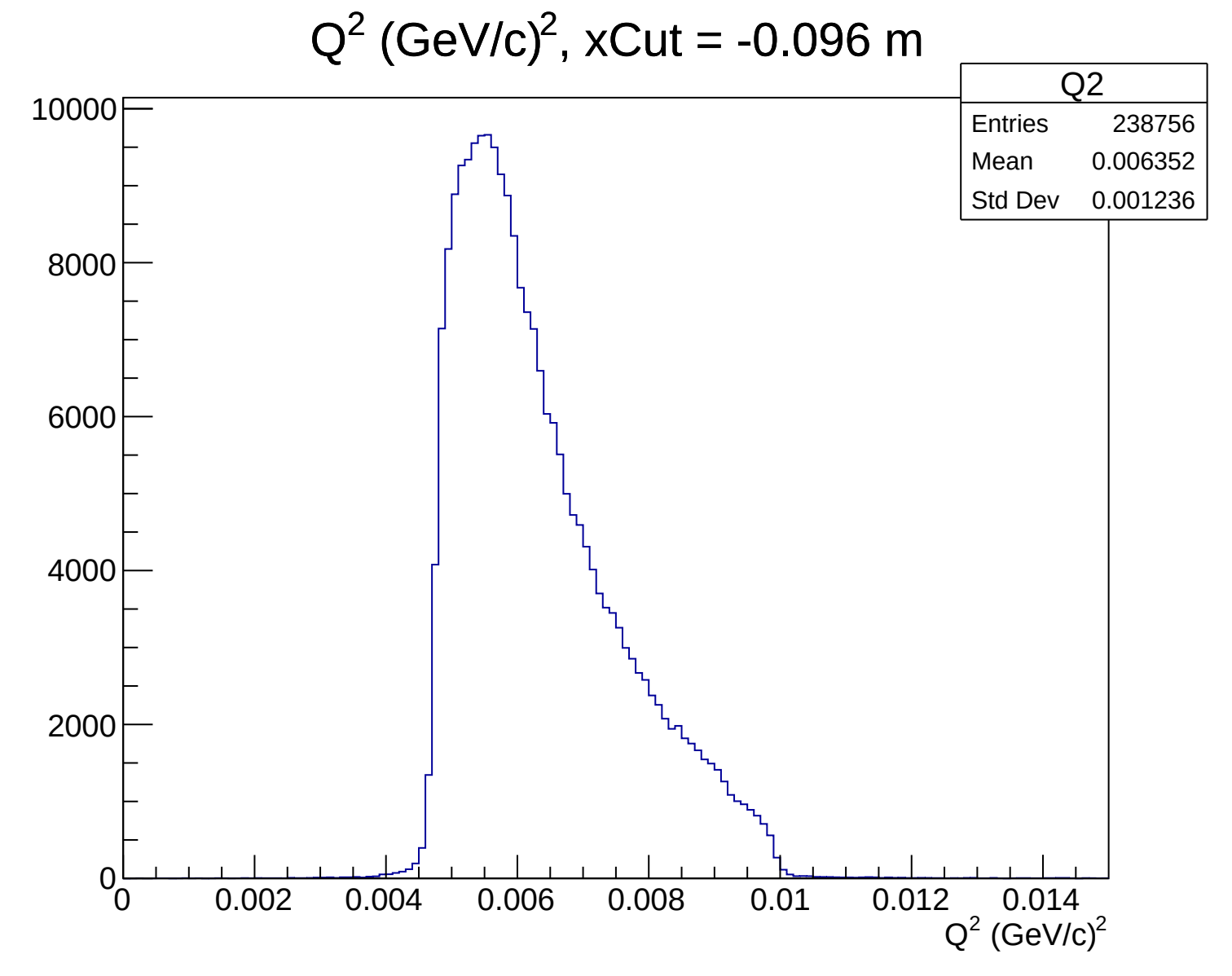

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.096
R.tr.x[0]+1.3*R.tr.th[0] (m)

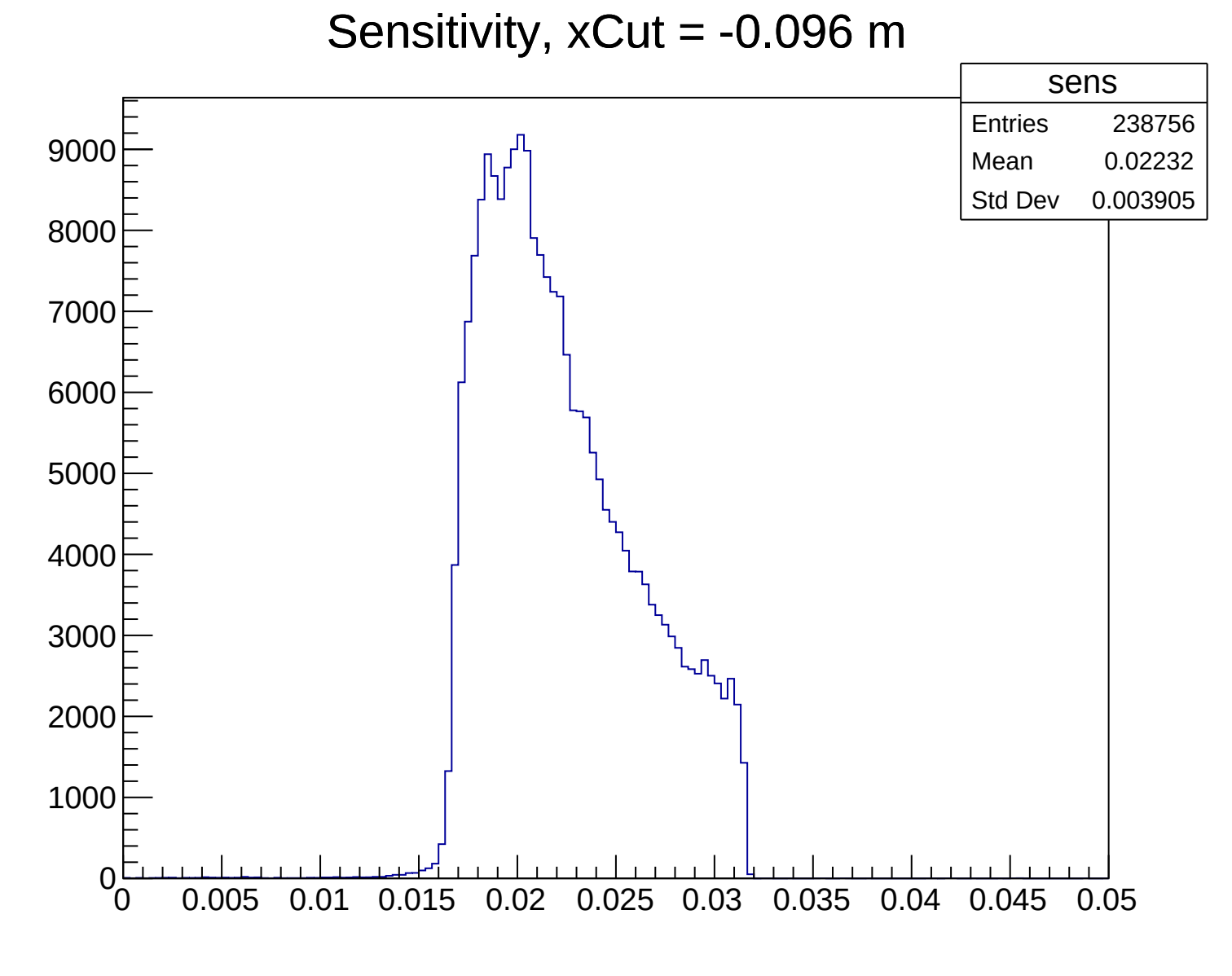

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

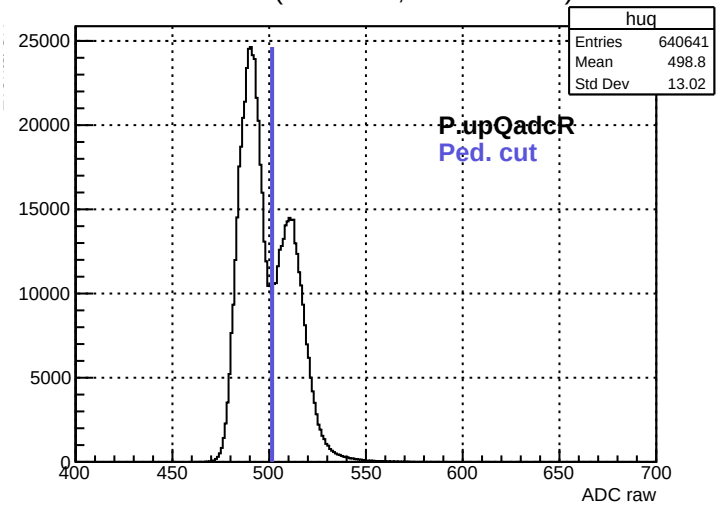

θlab (deg), xCut = -0.096 m
Theta
Entries 238756
Mean 4.795
Std Dev 0.4566
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

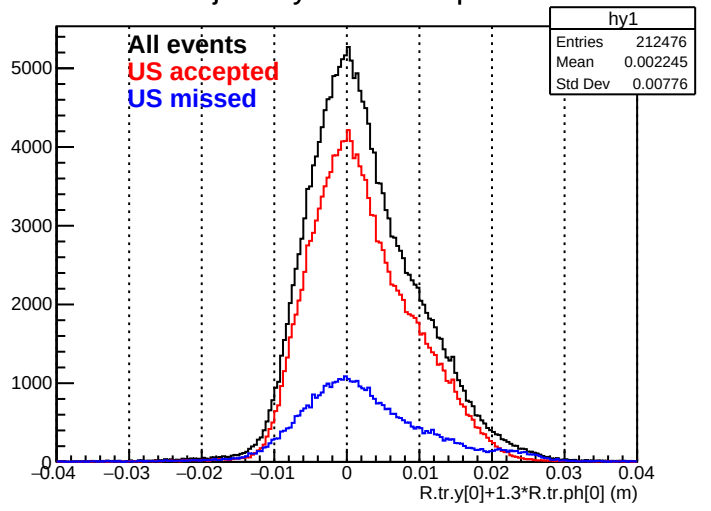

Asymmetry (ppm), xCut = -0.096 m
Asym
Entries 238756
Mean 0.5705
Std Dev 0.08589
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

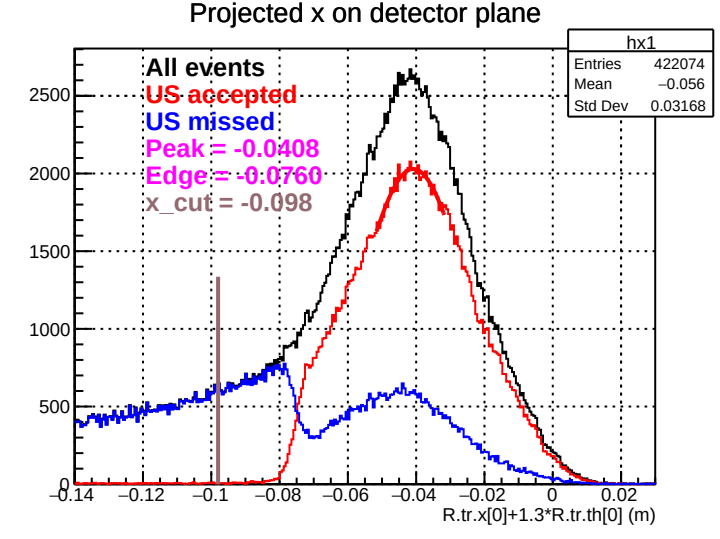

Stretched Asym. (ppm), xCut = -0.096 m
SAsym
Entries 238756
Mean 0.5575
Std Dev 0.08215
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

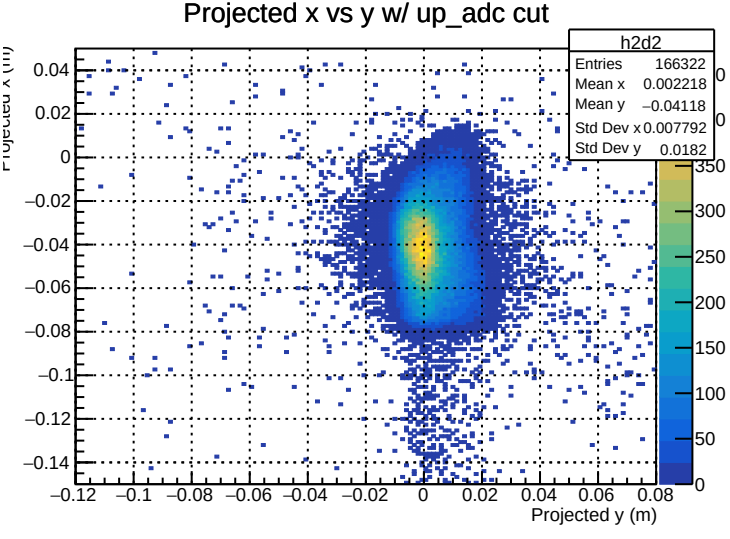

Q^2 (GeV/c)^2, xCut = -0.096 m
Q2
Entries 238756
Mean 0.006352
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

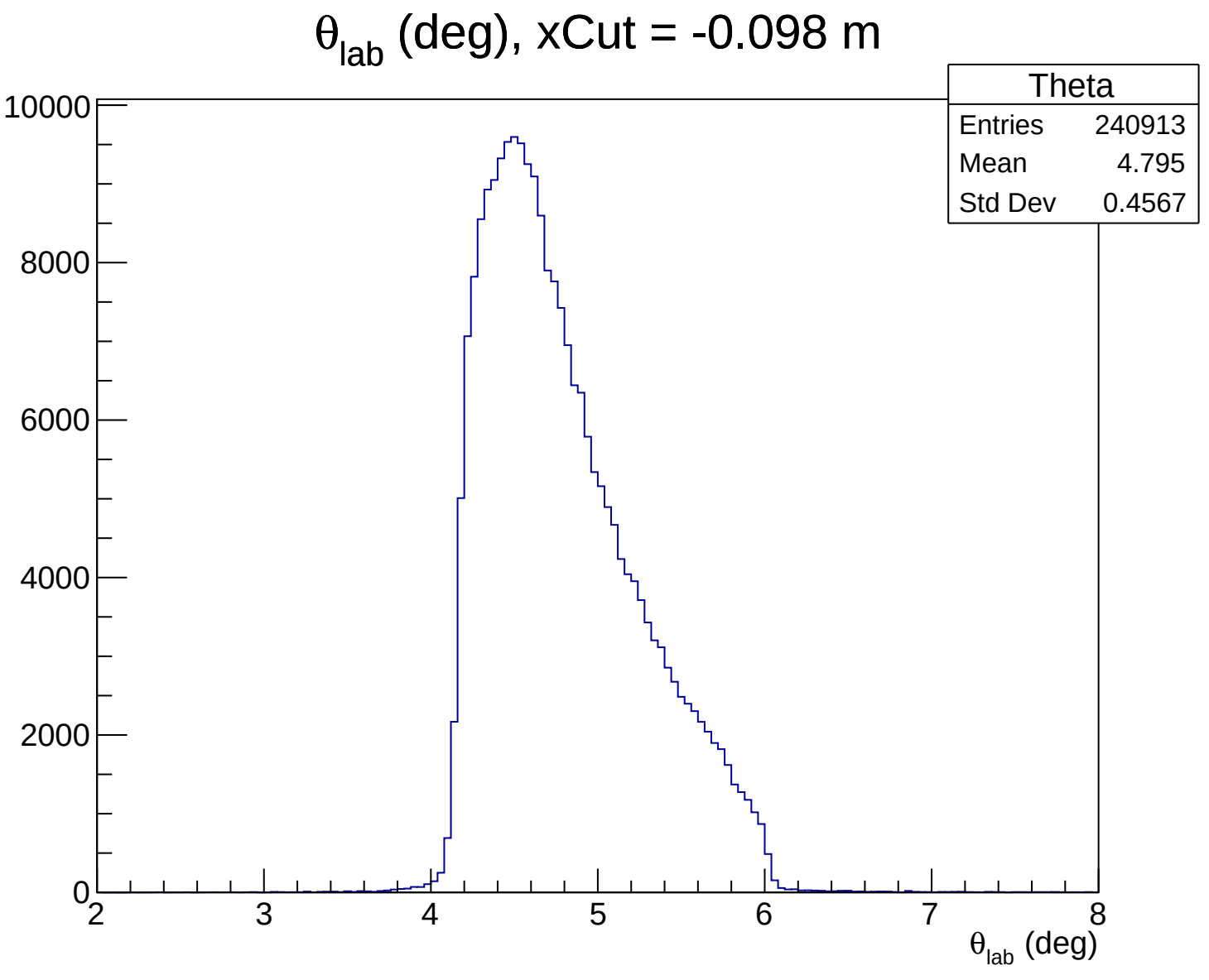

Sensitivity, xCut = -0.096 m
sens
Entries 238756
Mean 0.02232
Std Dev 0.003905
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

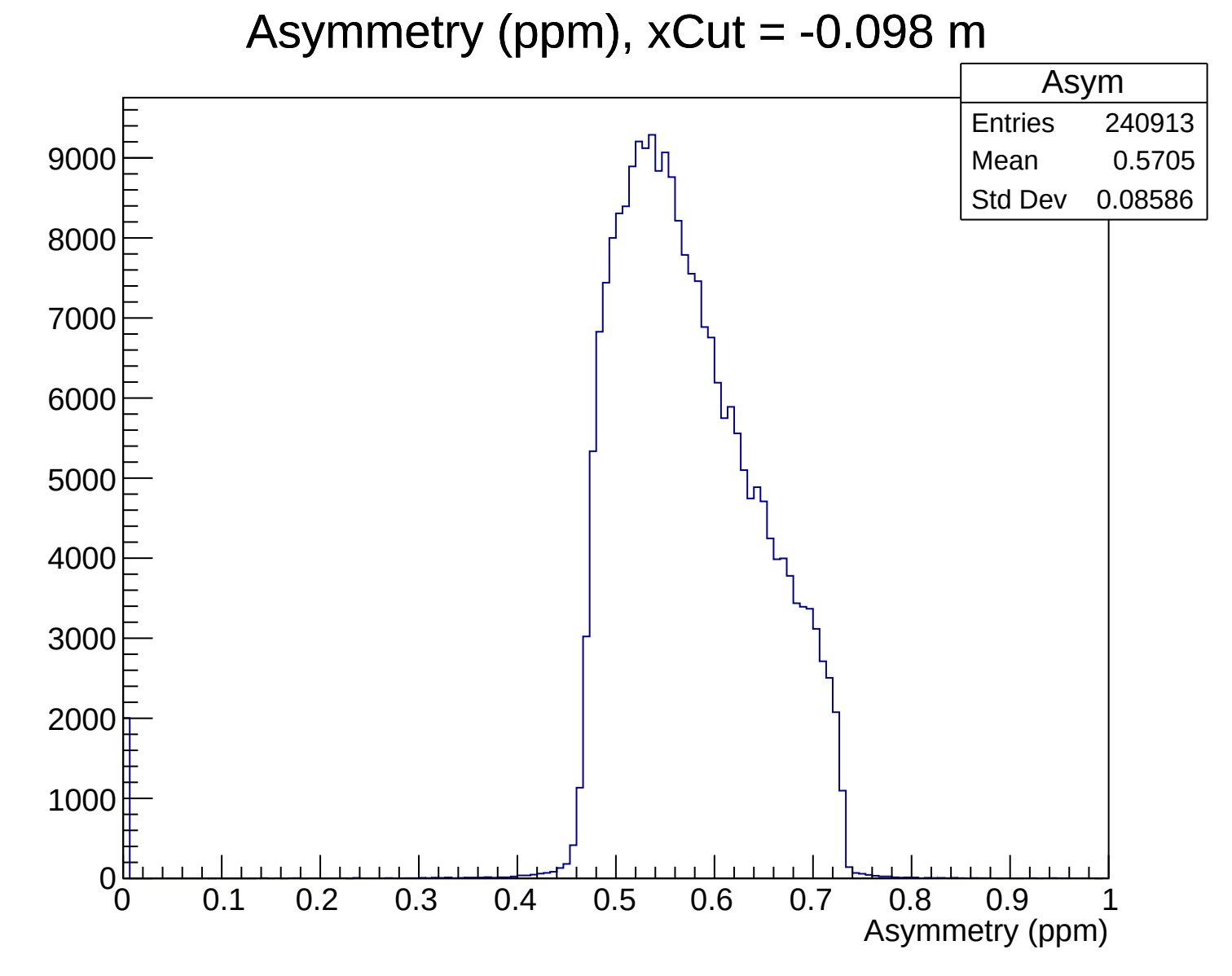

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

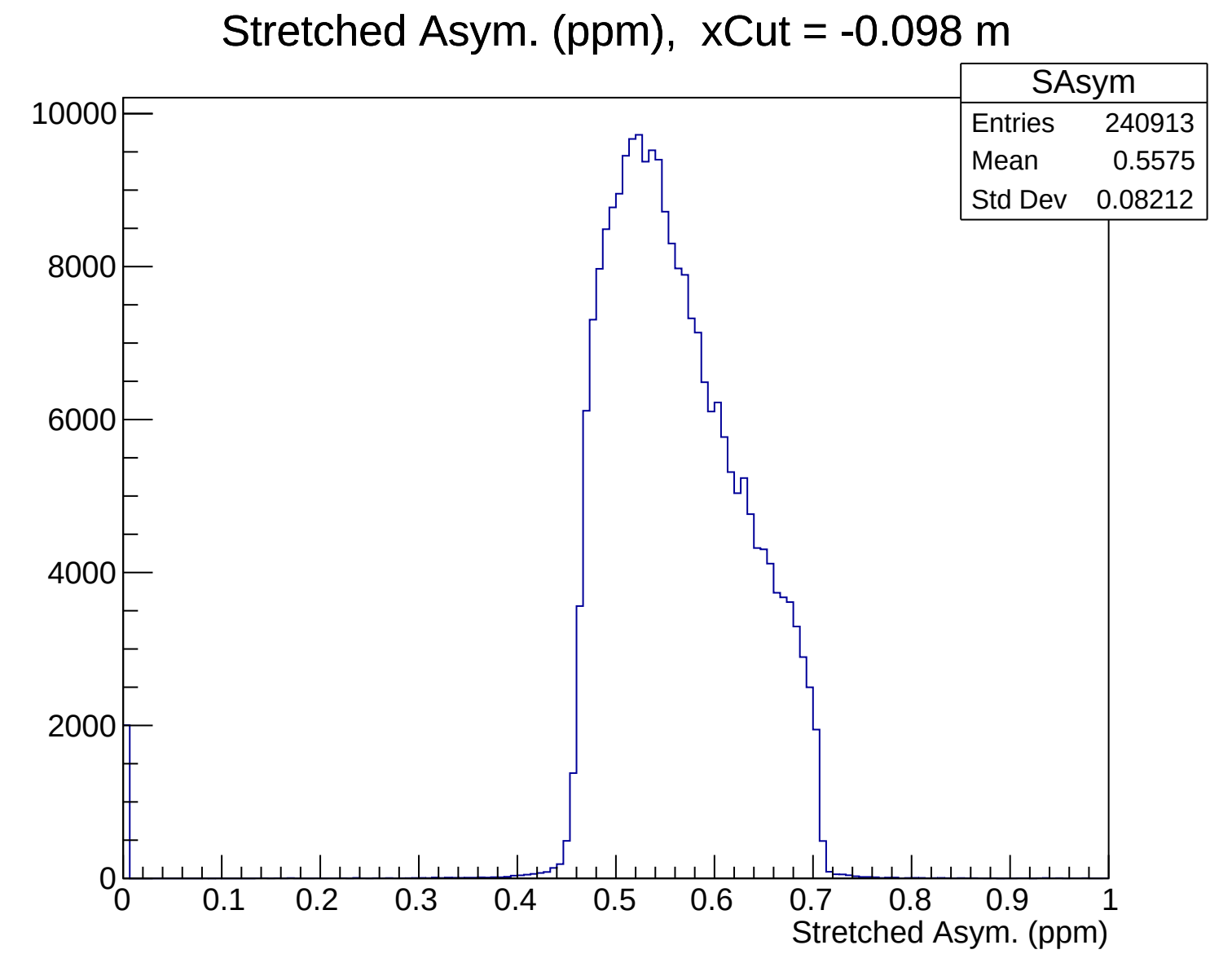

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

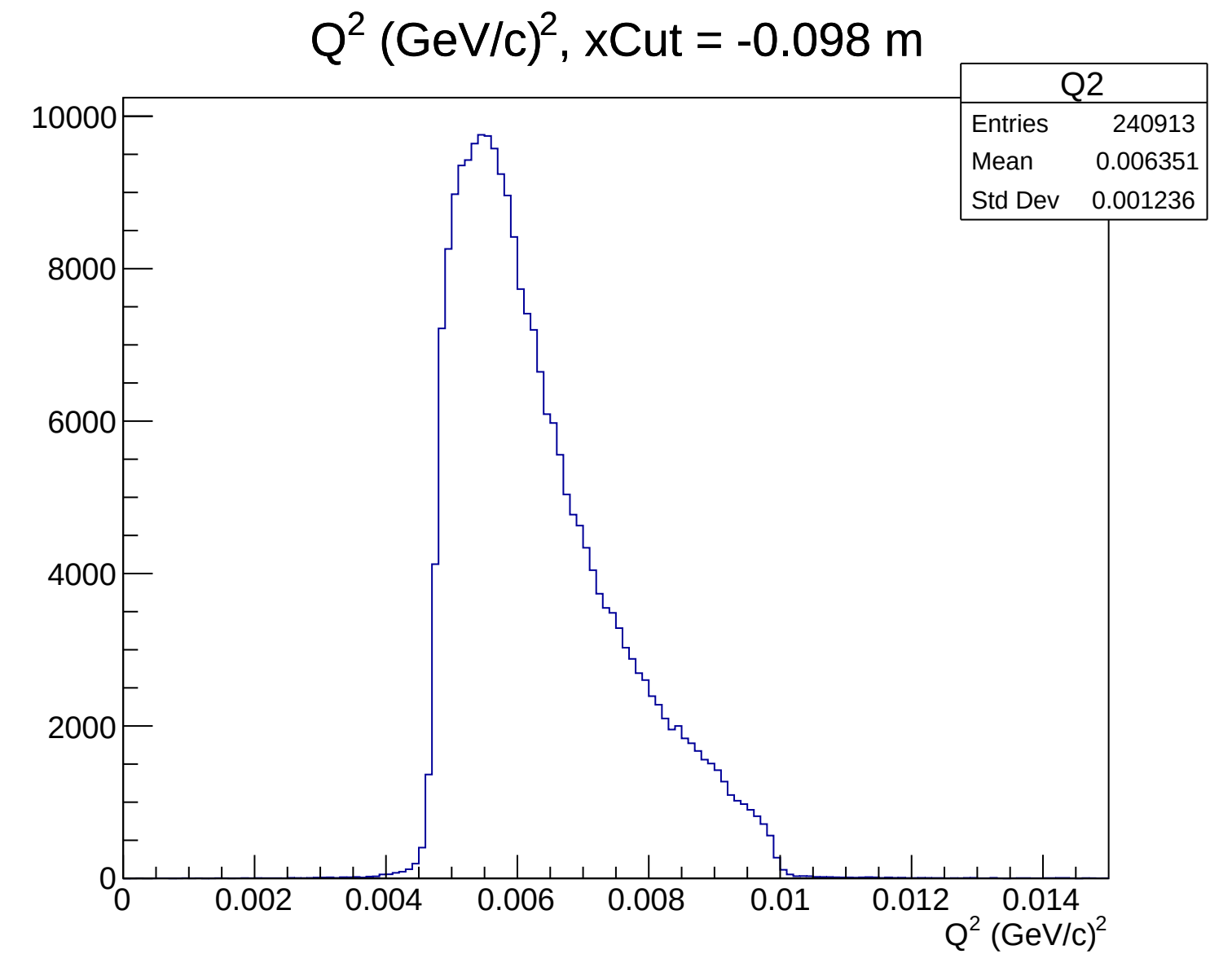

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.098
R.tr.x[0]+1.3*R.tr.th[0] (m)

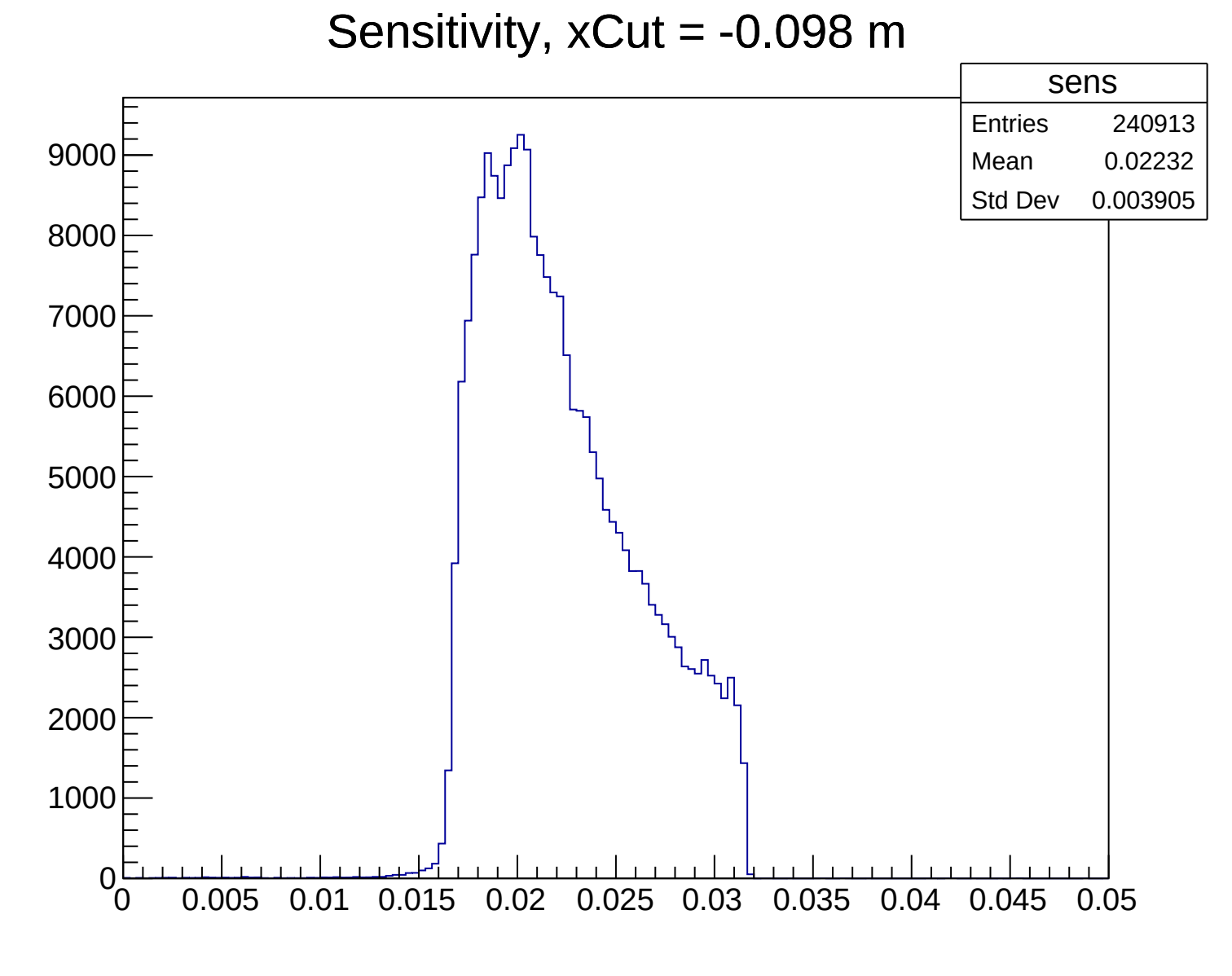

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

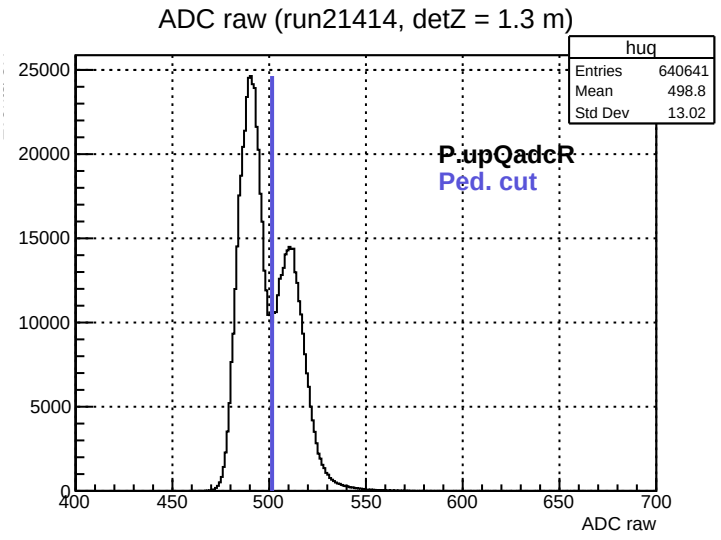

θlab (deg), xCut = -0.098 m
Theta
Entries 240913
Mean 4.795
Std Dev 0.4567
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

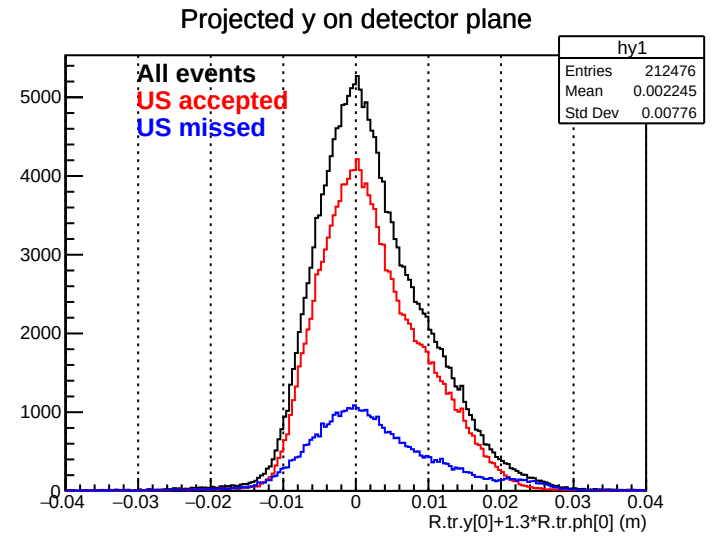

Asymmetry (ppm), xCut = -0.098 m
Asym
Entries 240913
Mean 0.5705
Std Dev 0.08586
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

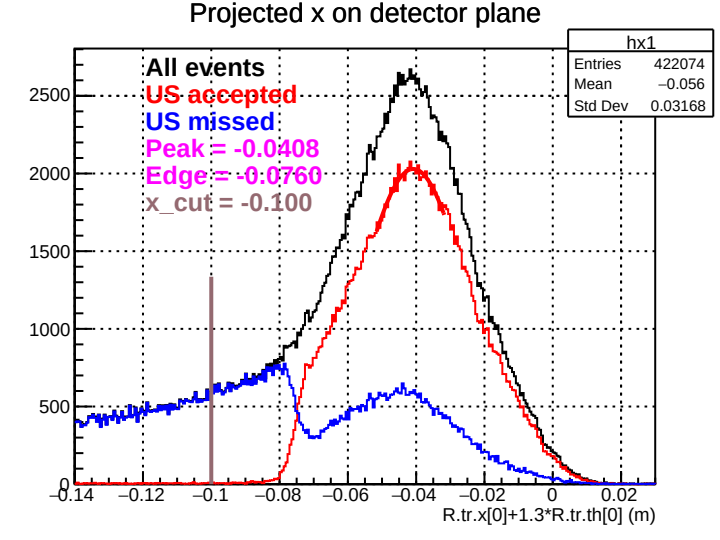

Stretched Asym. (ppm), xCut = -0.098 m
SAsym
Entries 240913
Mean 0.5575
Std Dev 0.08212
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

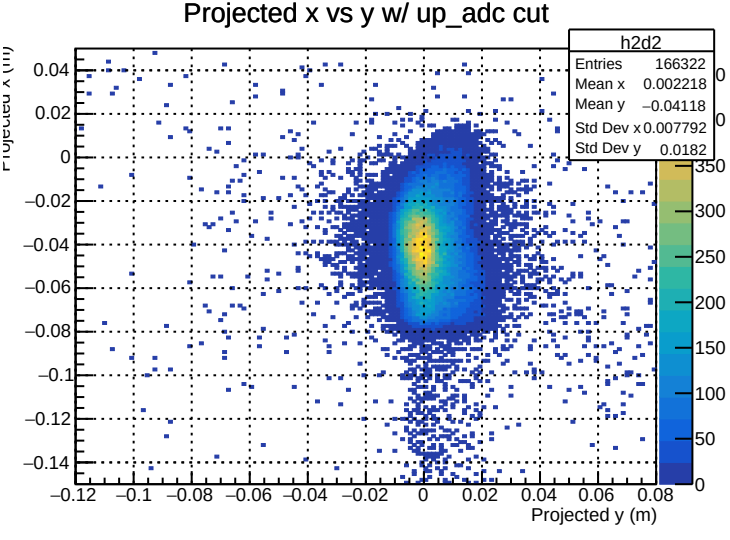

Q^2 (GeV/c)^2, xCut = -0.098 m
Q2
Entries 240913
Mean 0.006351
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

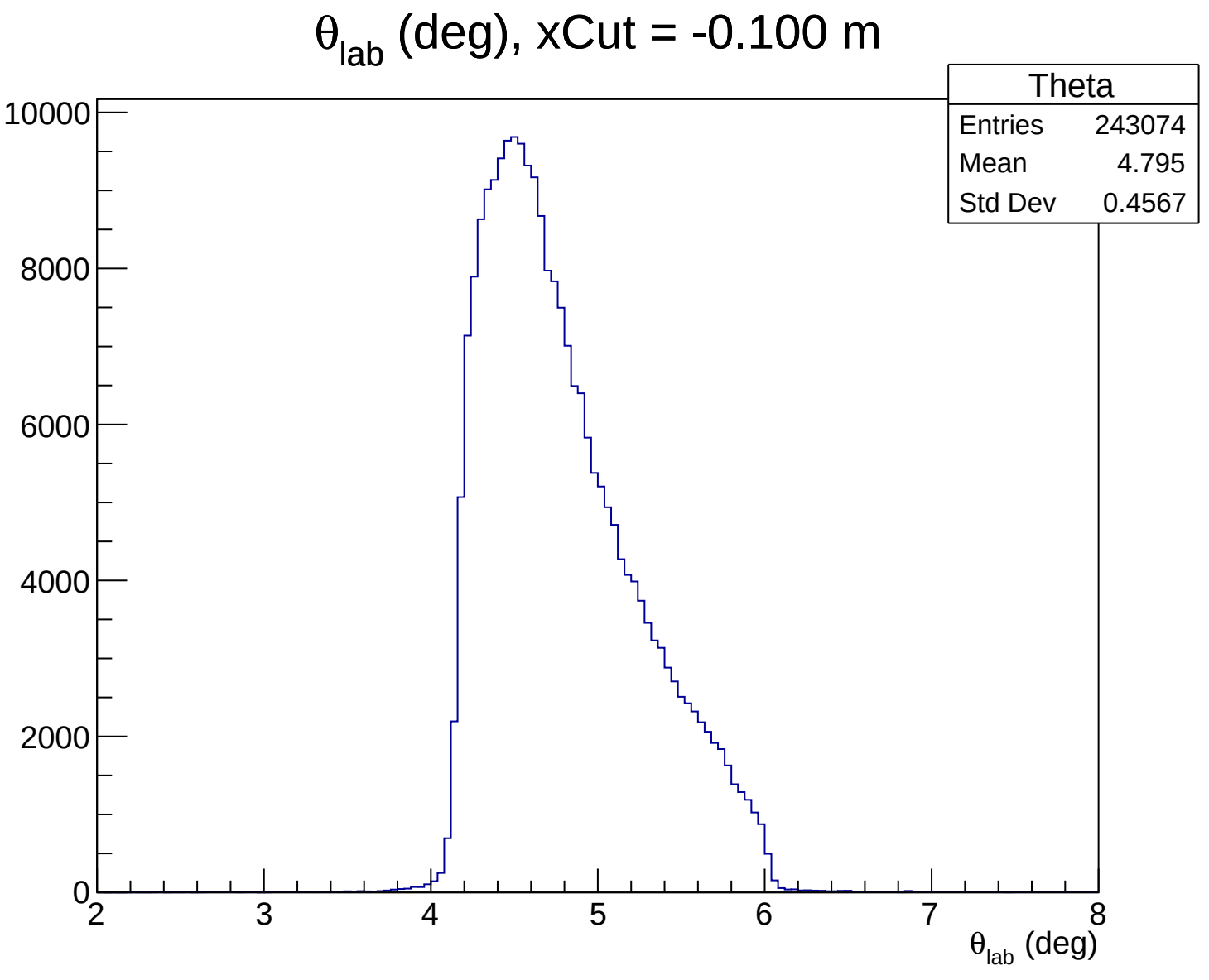

Sensitivity, xCut = -0.098 m
sens
Entries 240913
Mean 0.02232
Std Dev 0.003905
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

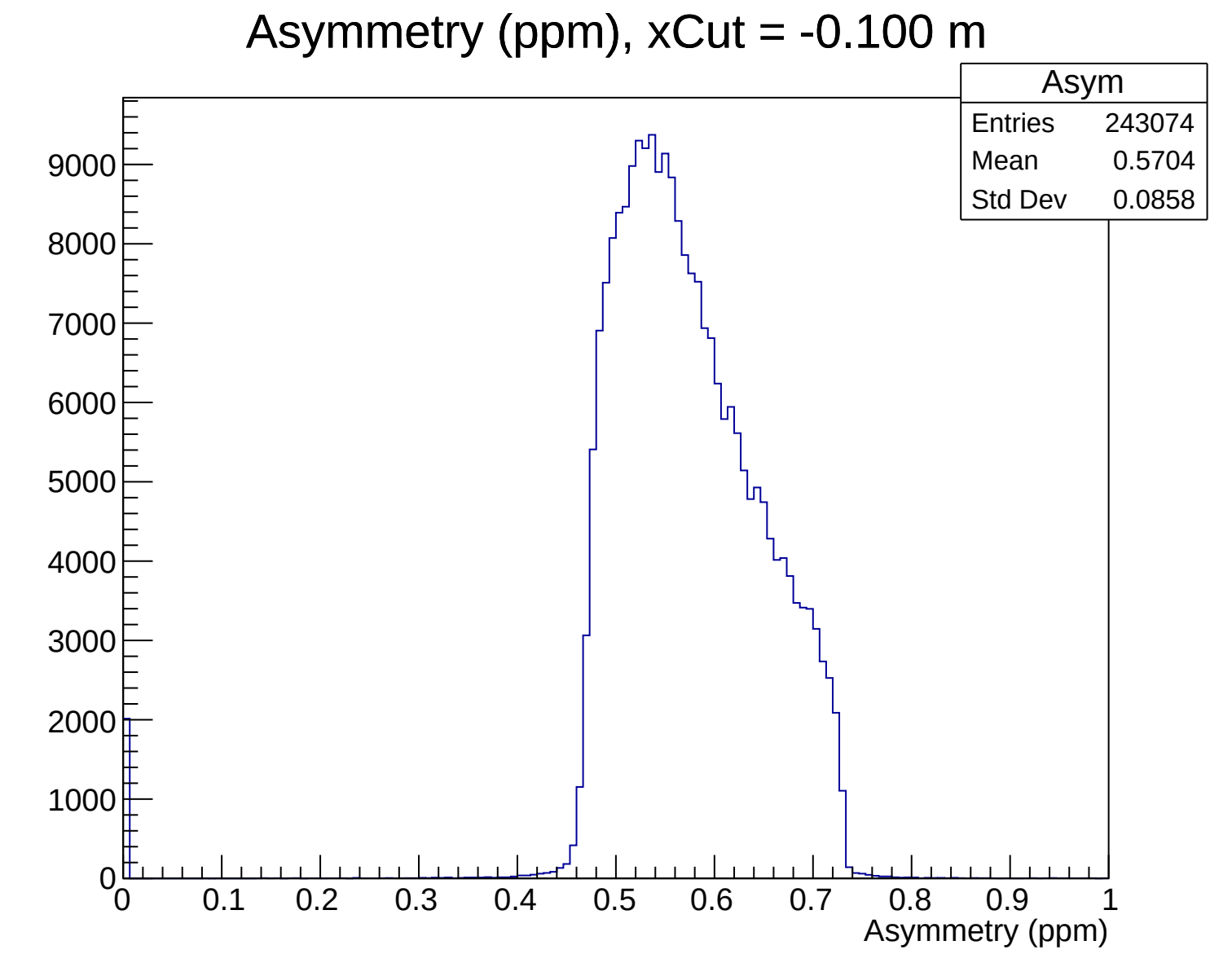

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

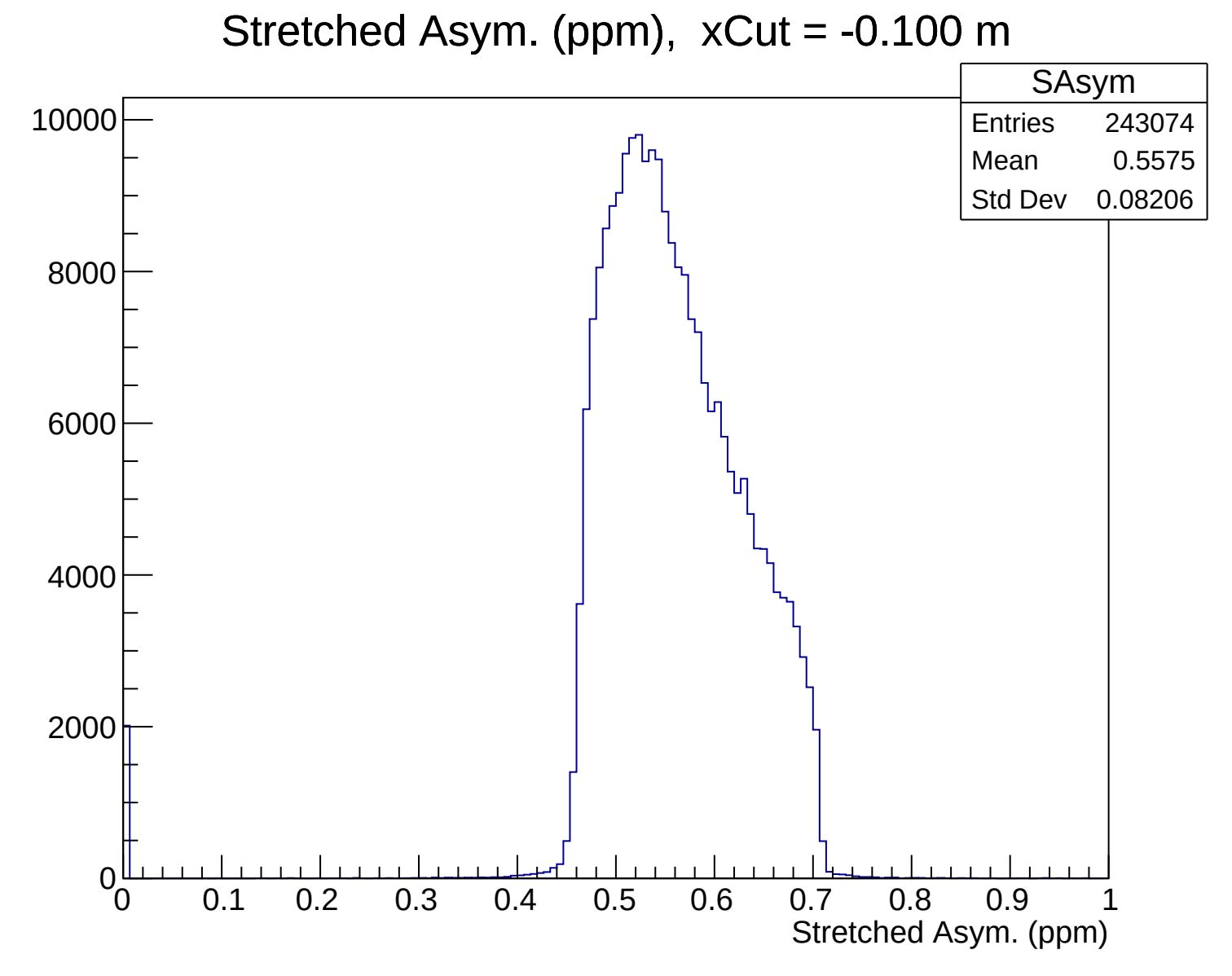

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

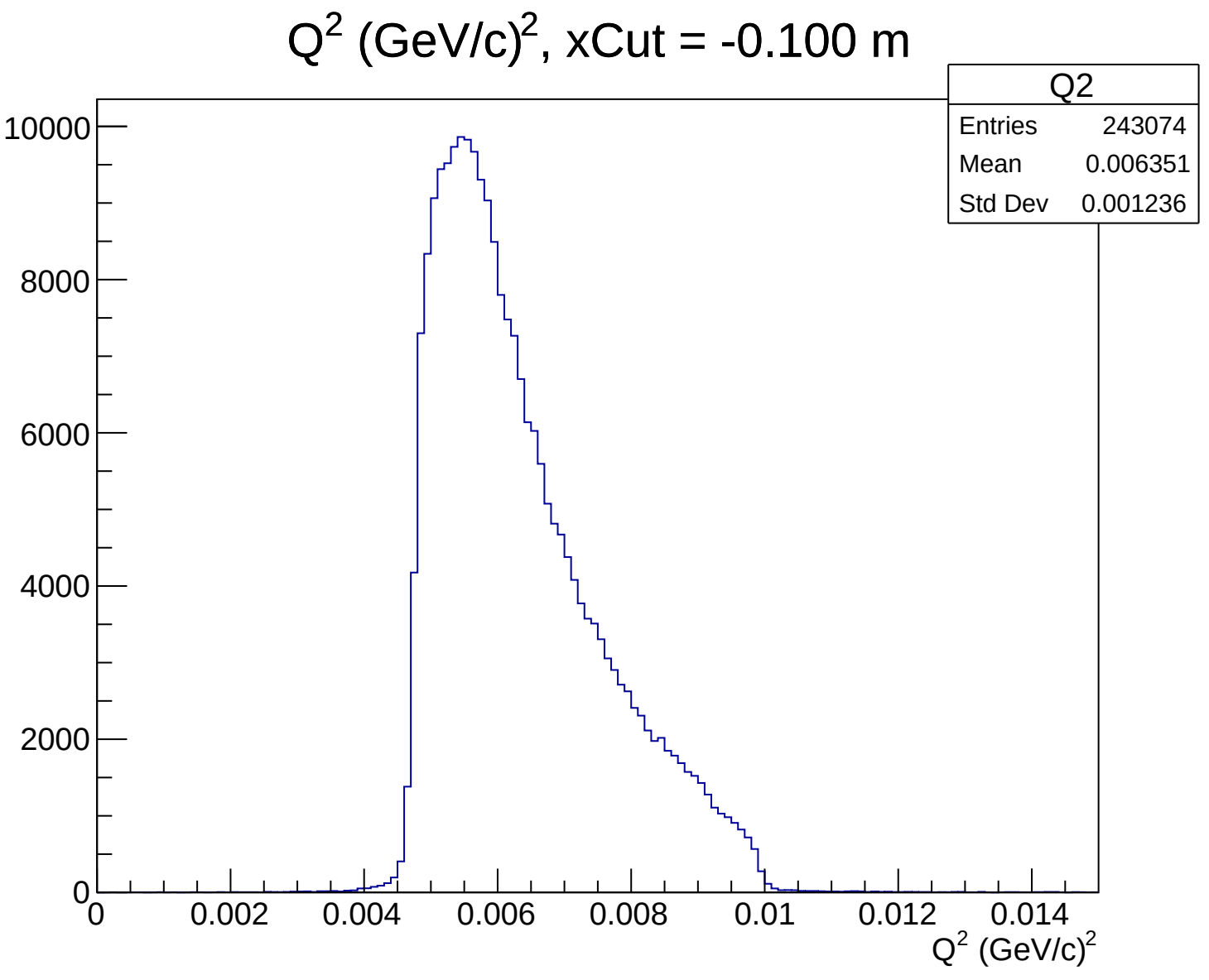

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.100
R.tr.x[0]+1.3*R.tr.th[0] (m)

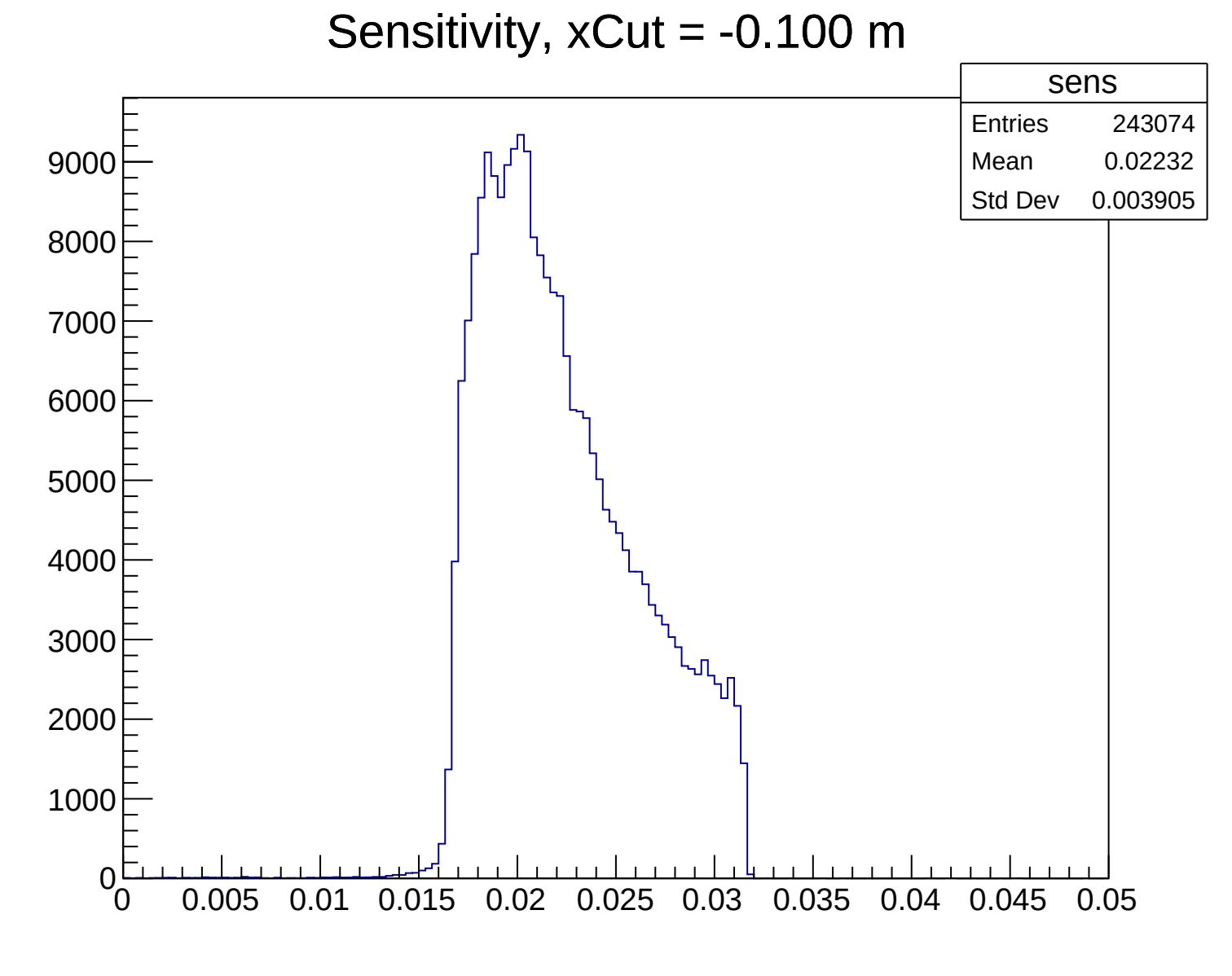

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

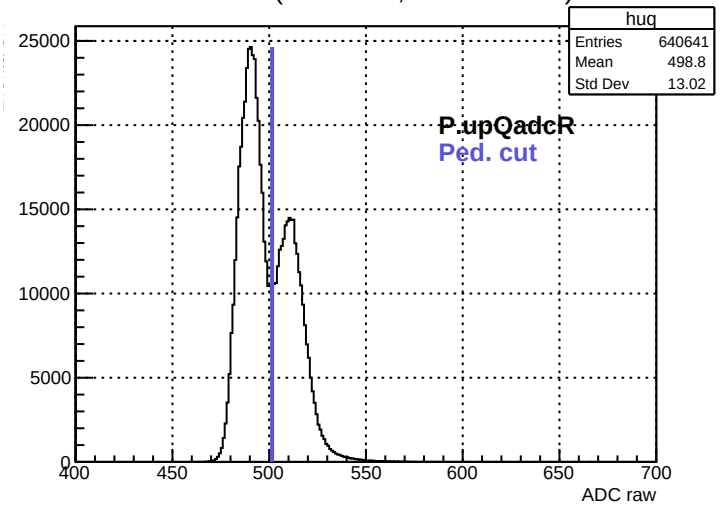

θlab (deg), xCut = -0.100 m
Theta
Entries 243074
Mean 4.795
Std Dev 0.4567
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

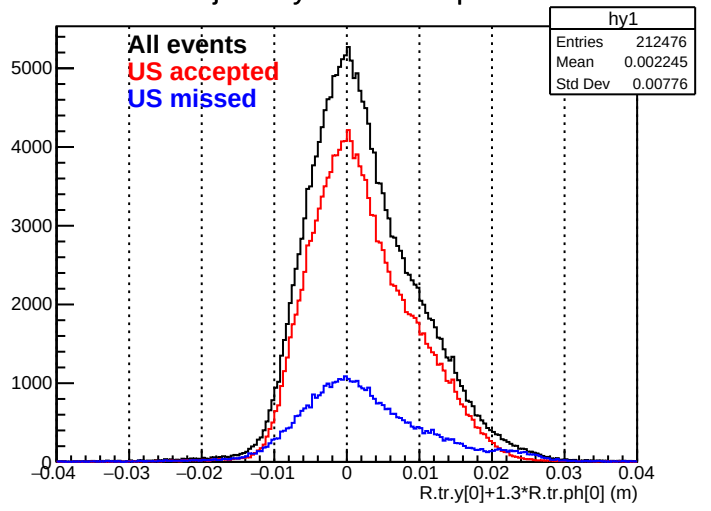

Asymmetry (ppm), xCut = -0.100 m
Asym
Entries 243074
Mean 0.5704
Std Dev 0.0858
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

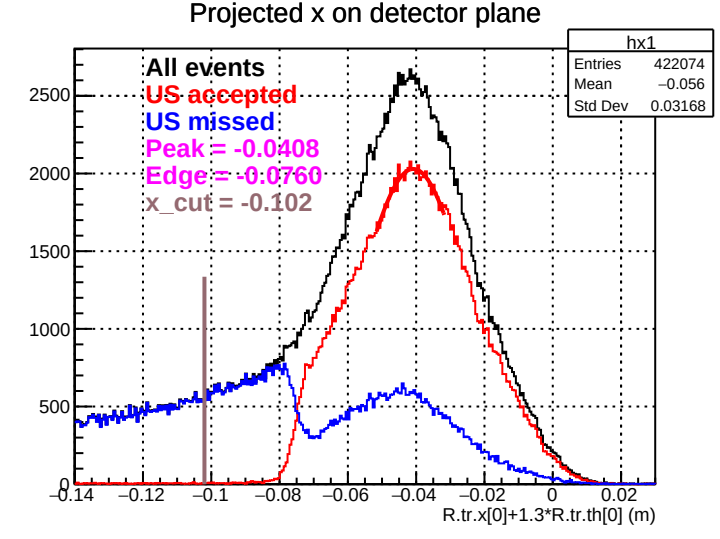

Stretched Asym. (ppm), xCut = -0.100 m
SAsym
Entries 243074
Mean 0.5575
Std Dev 0.08206
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

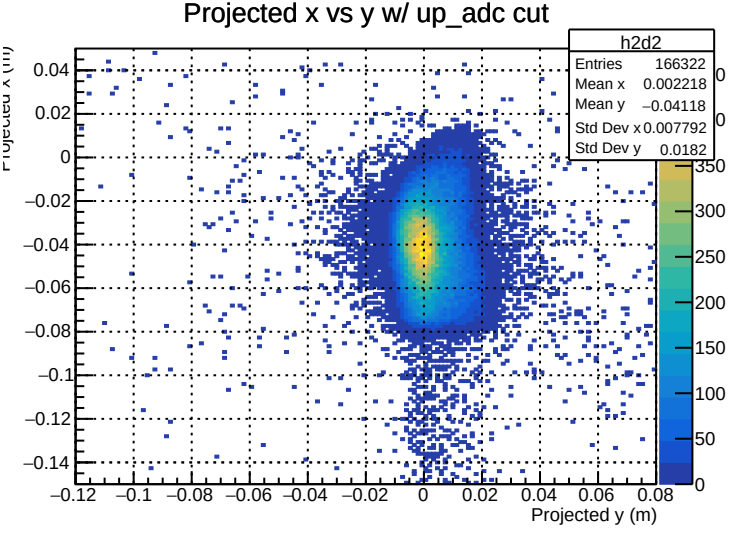

Q^2 (GeV/c)^2, xCut = -0.100 m
Q2
Entries 243074
Mean 0.006351
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

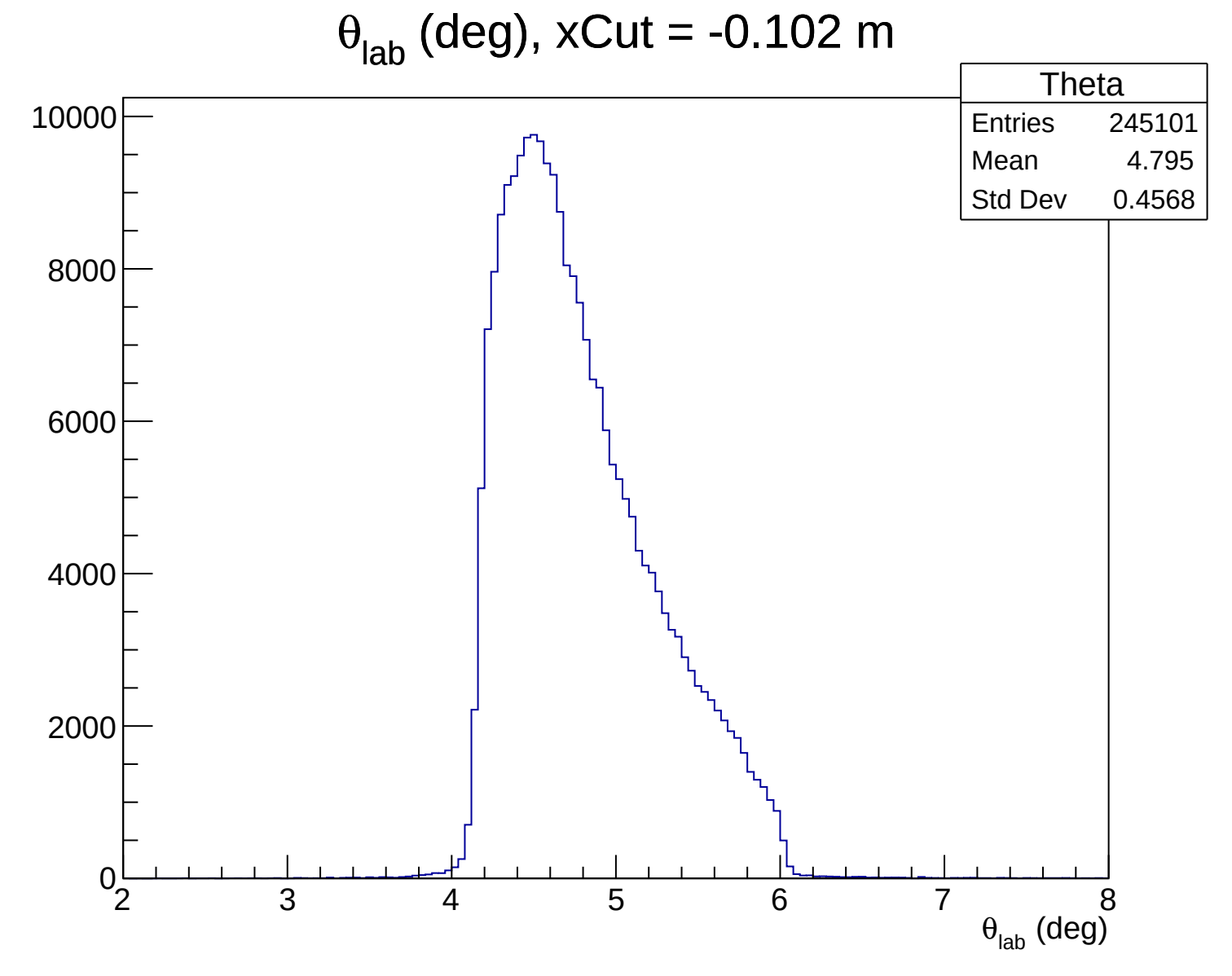

Sensitivity, xCut = -0.100 m
sens
Entries 243074
Mean 0.02232
Std Dev 0.003905
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

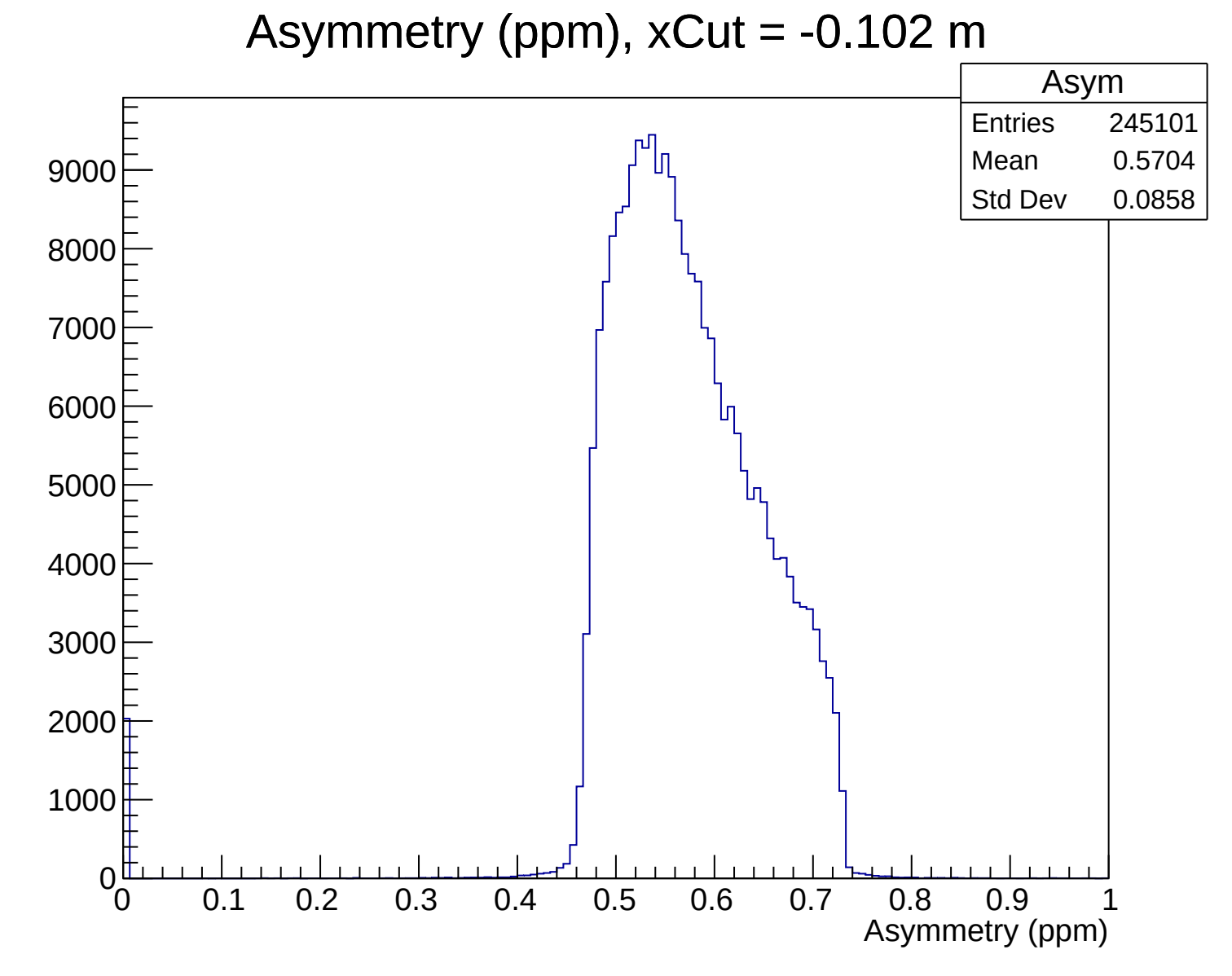

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

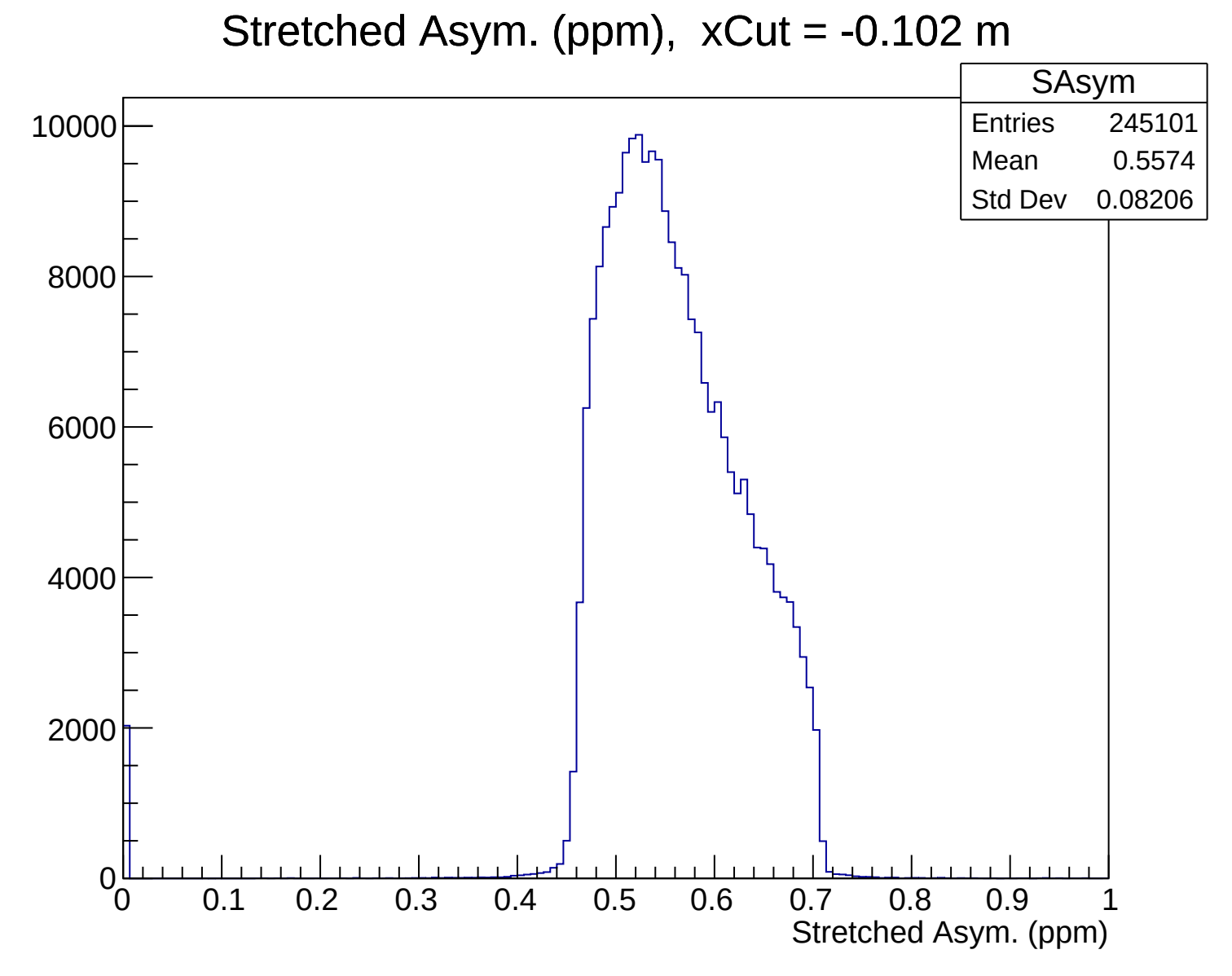

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

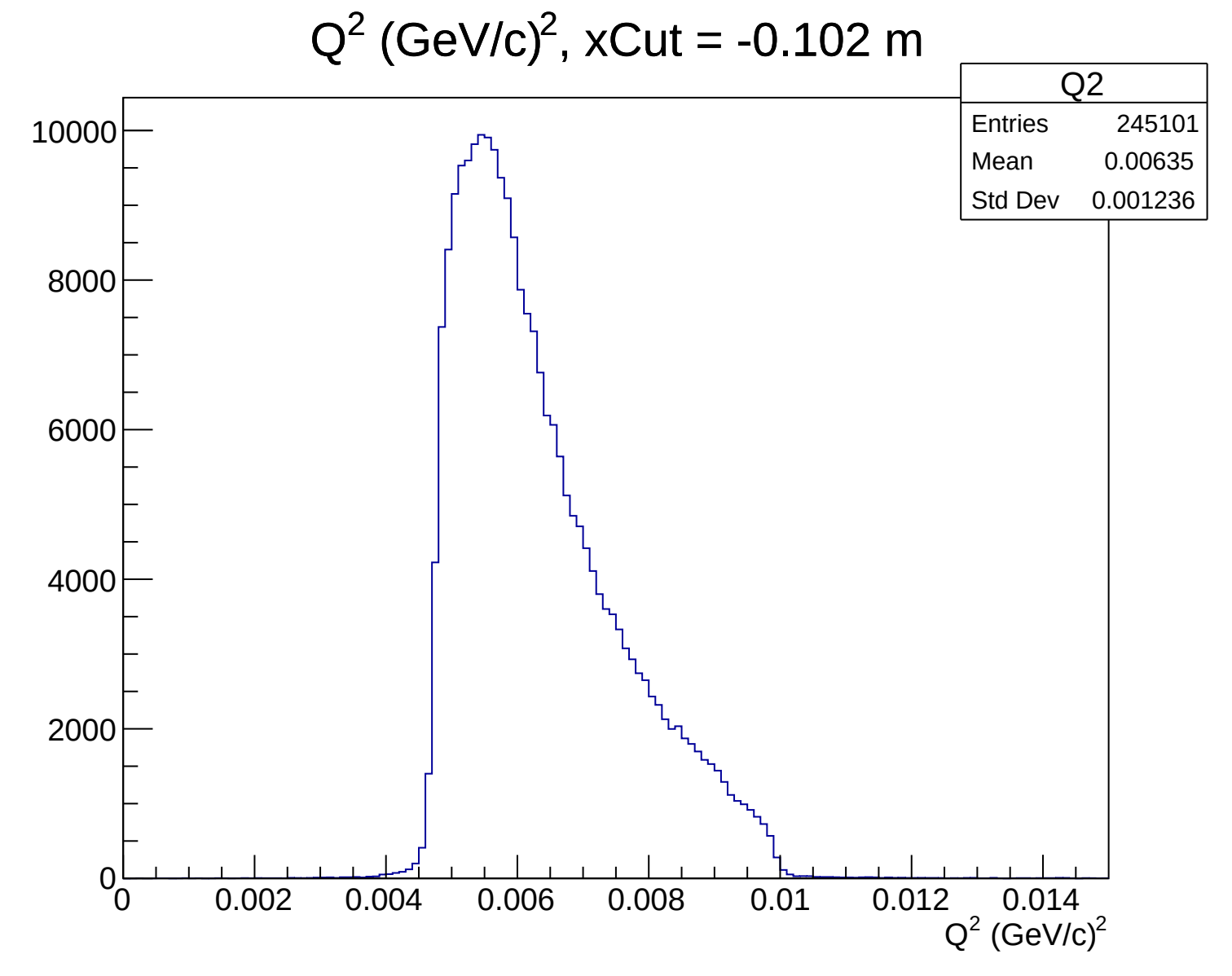

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.102
R.tr.x[0]+1.3*R.tr.th[0] (m)

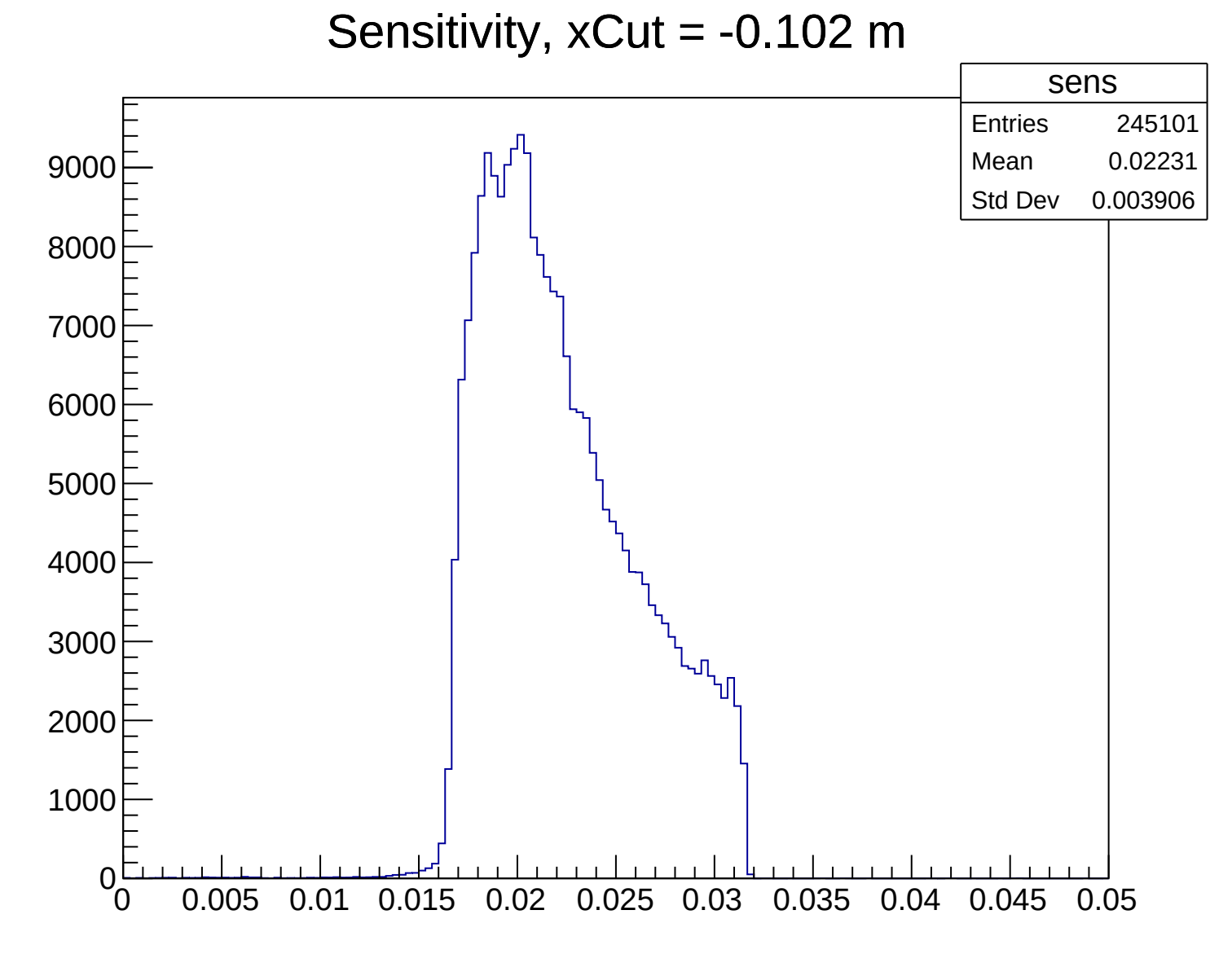

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

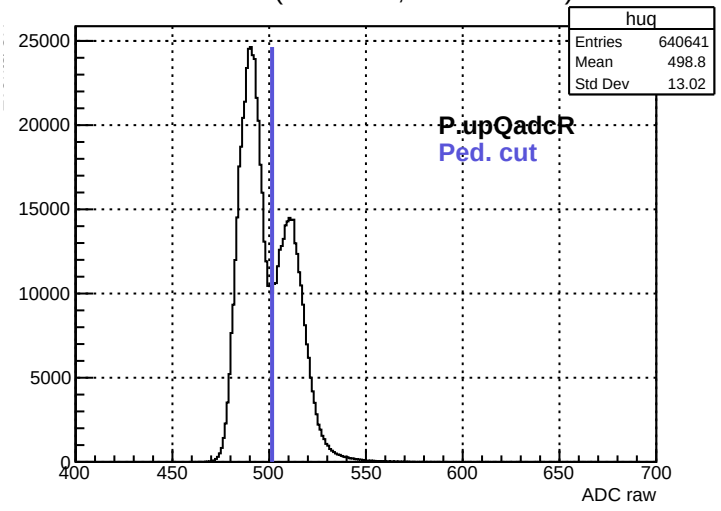

θlab (deg), xCut = -0.102 m
Theta
Entries 245101
Mean 4.795
Std Dev 0.4568
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

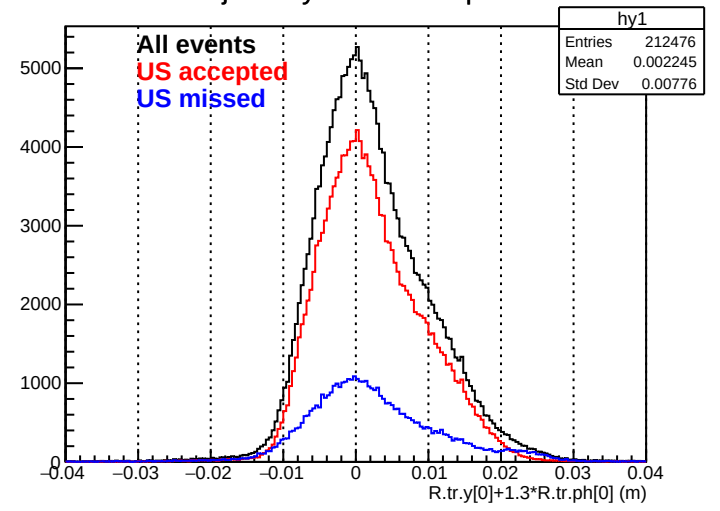

Asymmetry (ppm), xCut = -0.102 m
Asym
Entries 245101
Mean 0.5704
Std Dev 0.0858
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

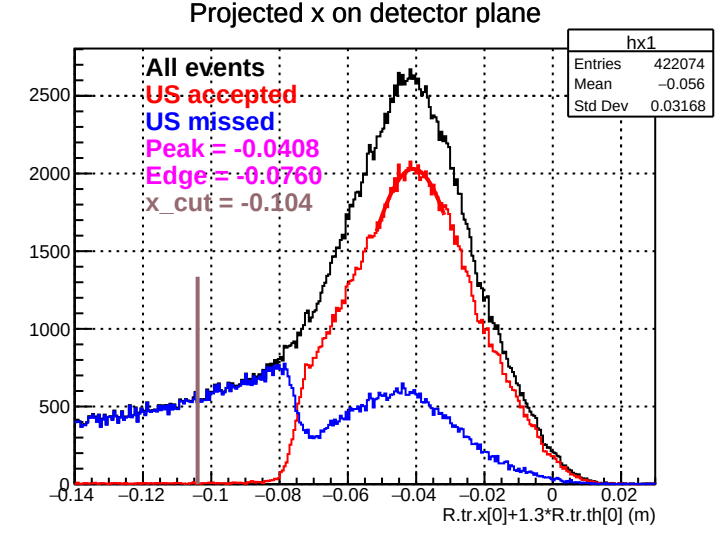

Stretched Asym. (ppm), xCut = -0.102 m
SAsym
Entries 245101
Mean 0.5574
Std Dev 0.08206
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

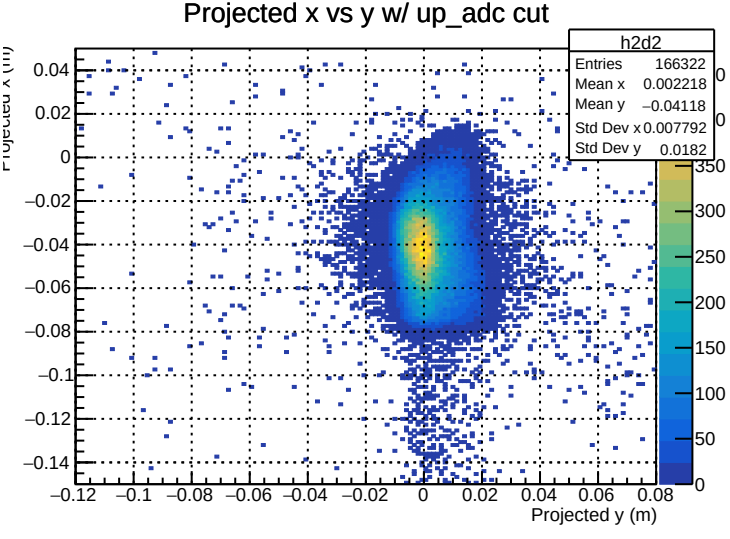

Q^2 (GeV/c)^2, xCut = -0.102 m
Q2
Entries 245101
Mean 0.00635
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

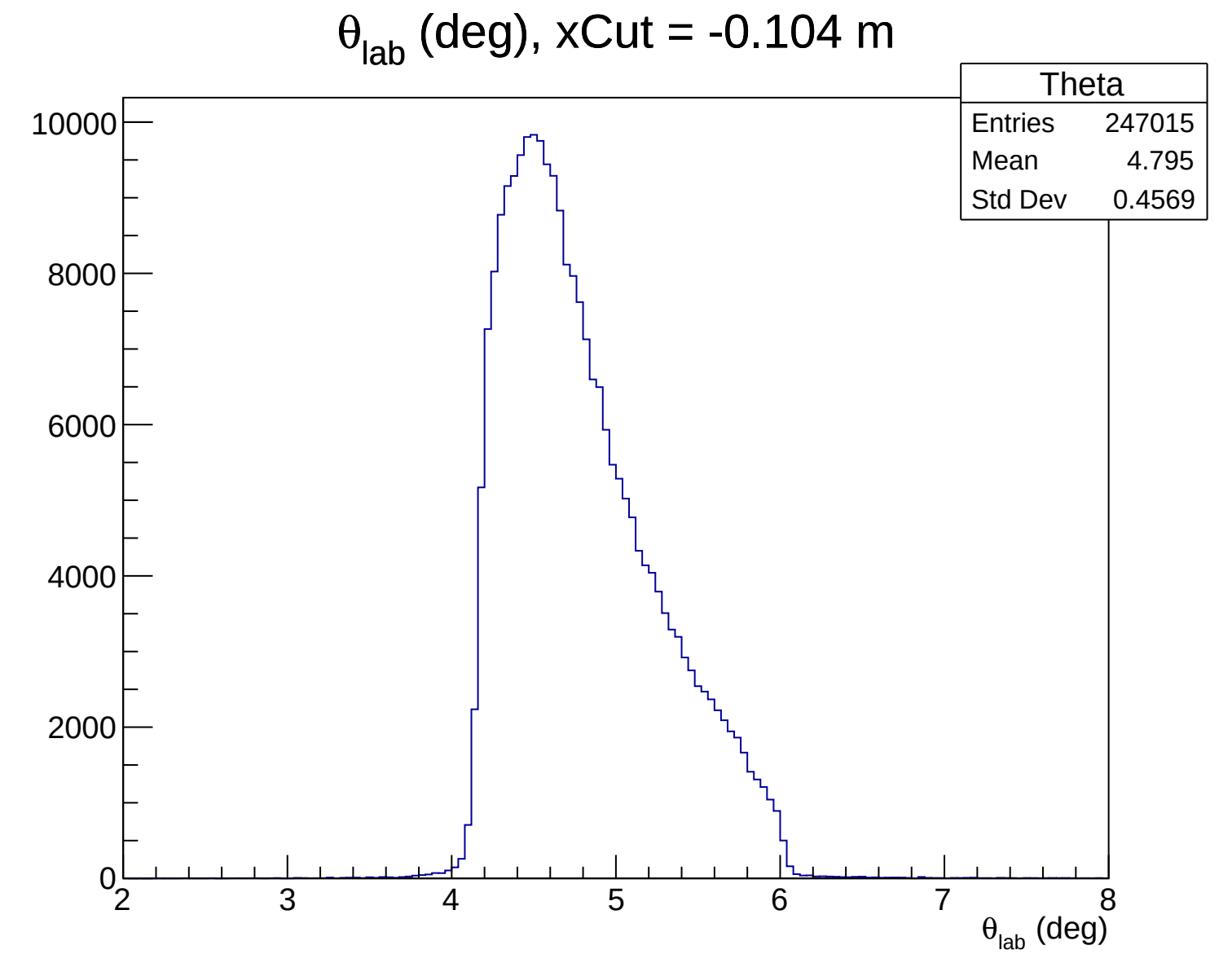

Sensitivity, xCut = -0.102 m
sens
Entries 245101
Mean 0.02231
Std Dev 0.003906
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

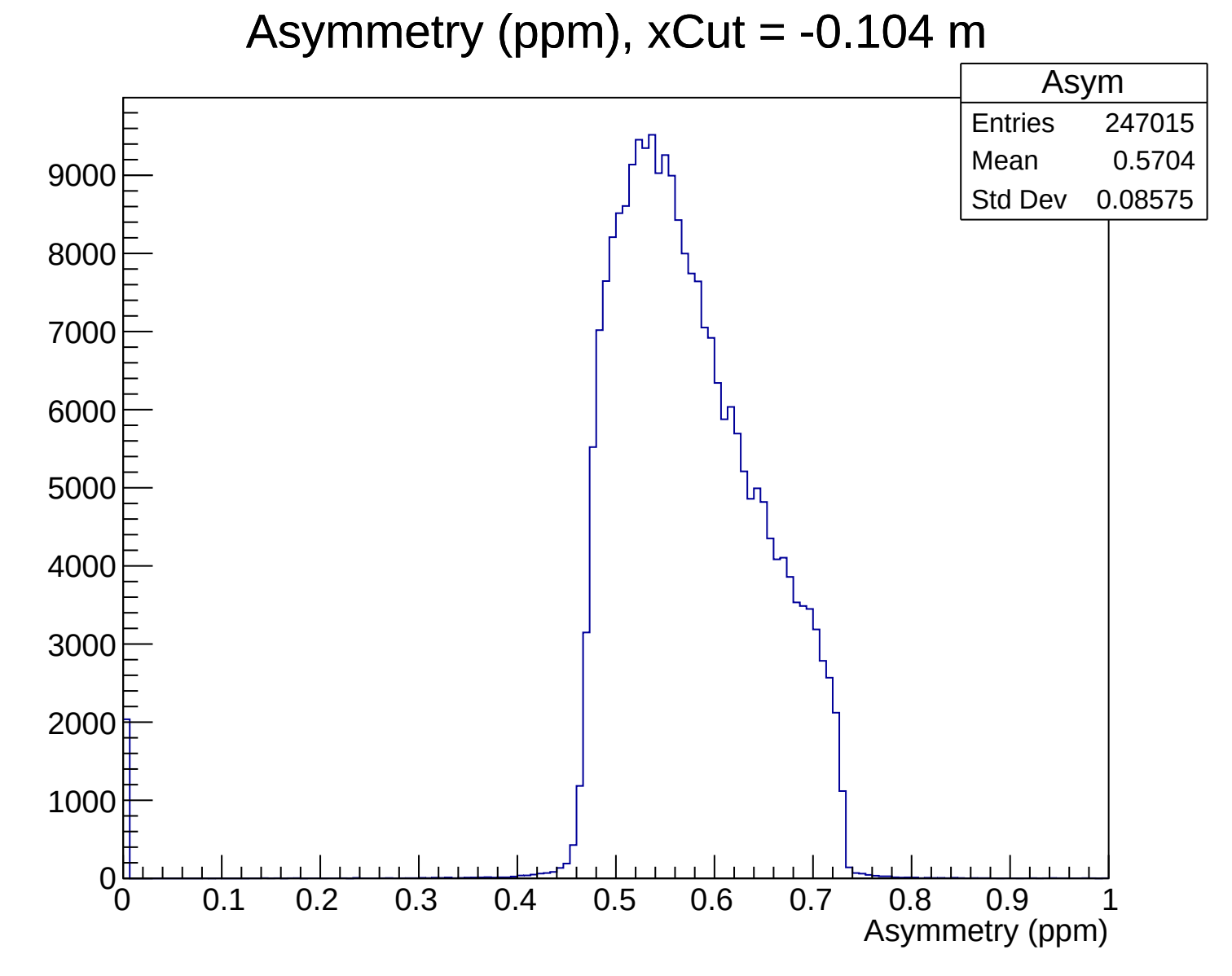

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

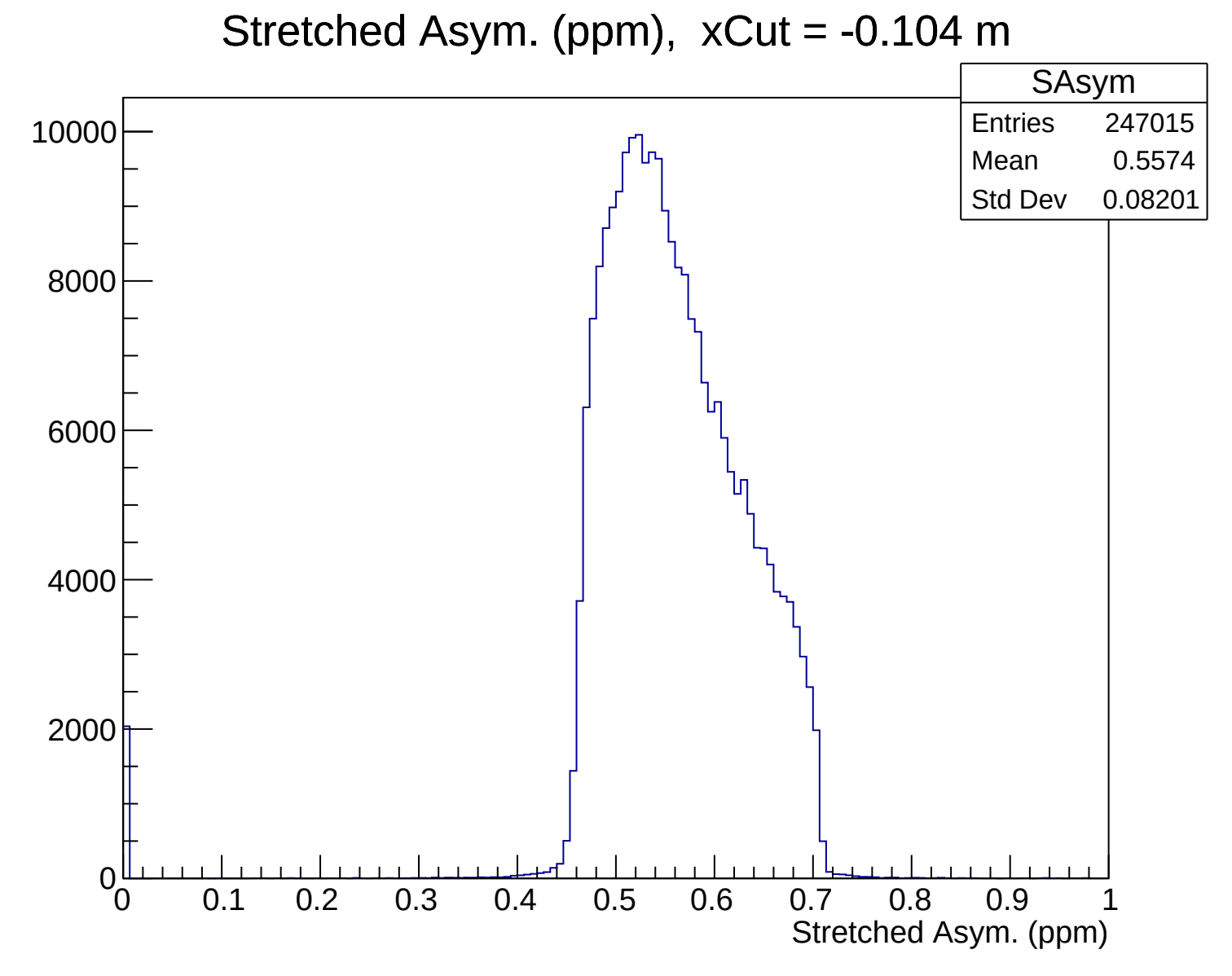

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

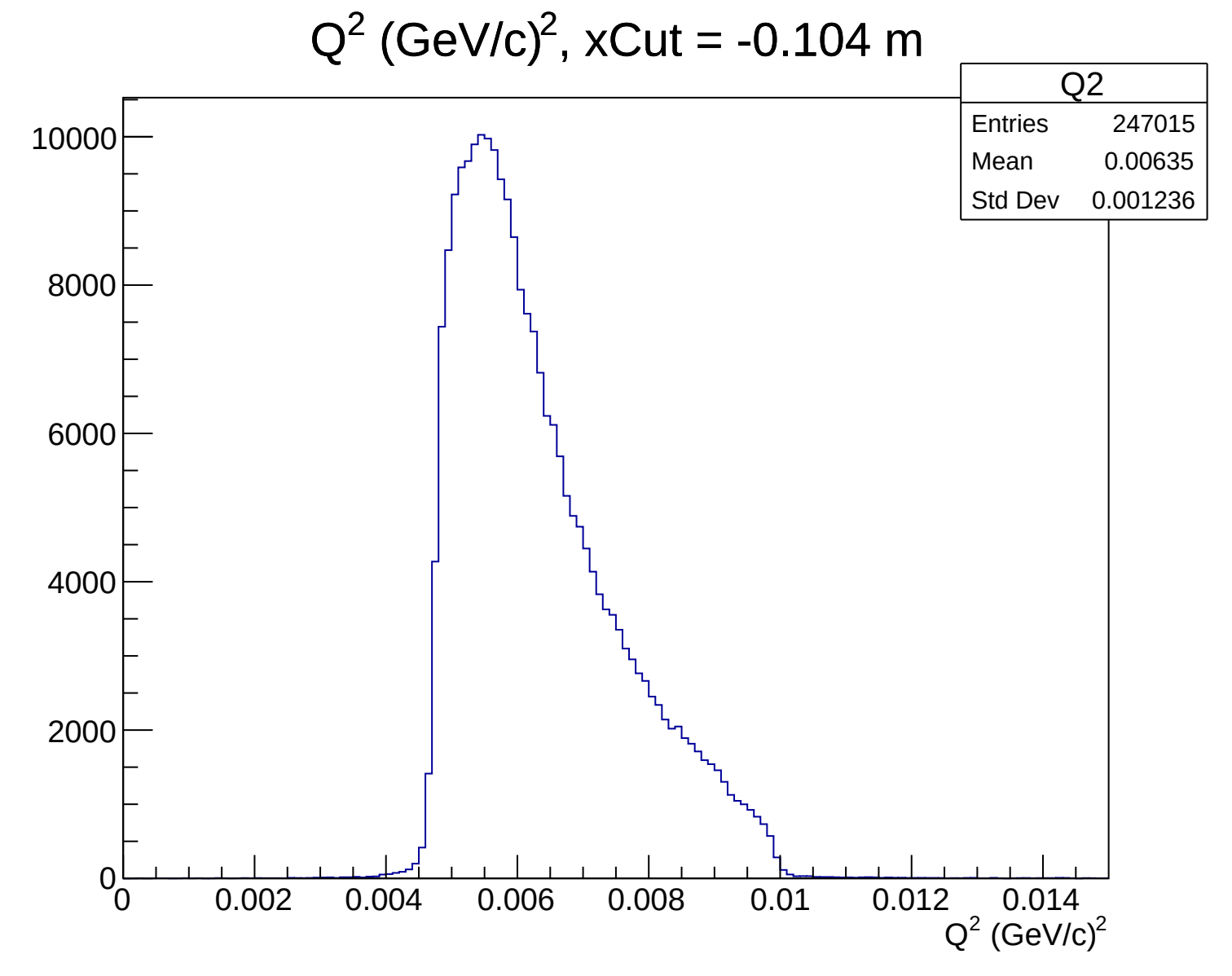

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.104
R.tr.x[0]+1.3*R.tr.th[0] (m)

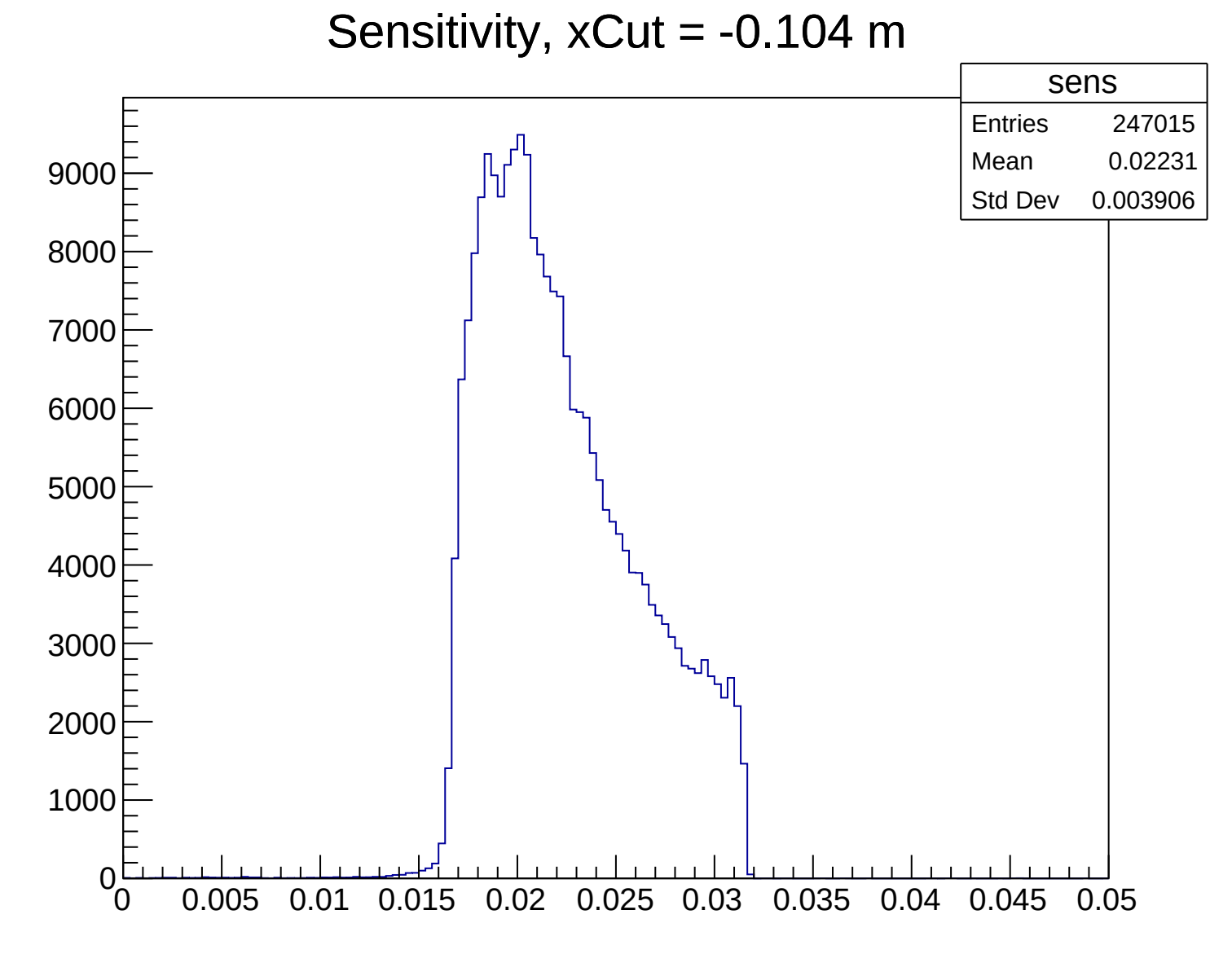

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

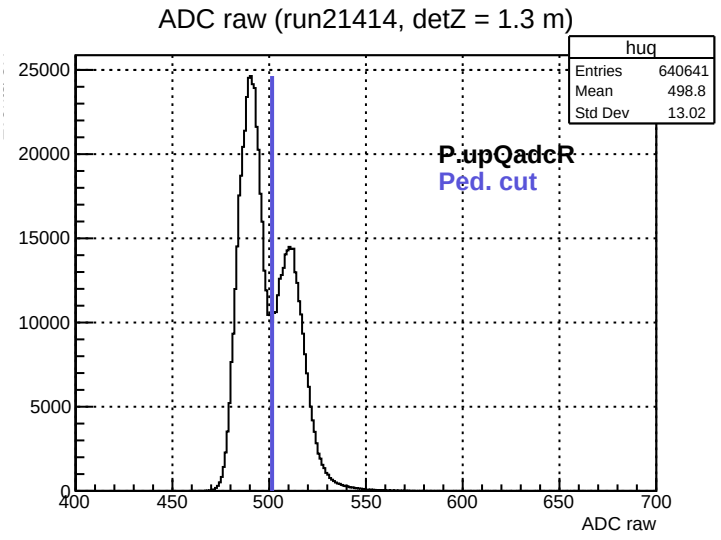

θlab (deg), xCut = -0.104 m
Theta
Entries 247015
Mean 4.795
Std Dev 0.4569
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

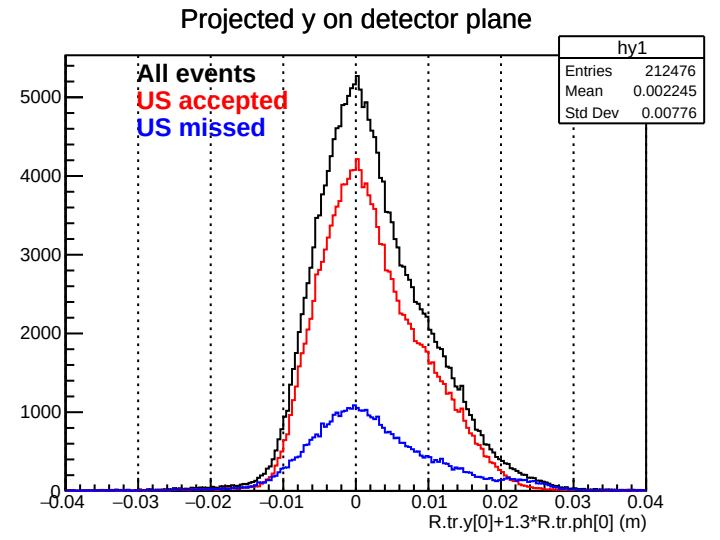

Asymmetry (ppm), xCut = -0.104 m
Asym
Entries 247015
Mean 0.5704
Std Dev 0.08575
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

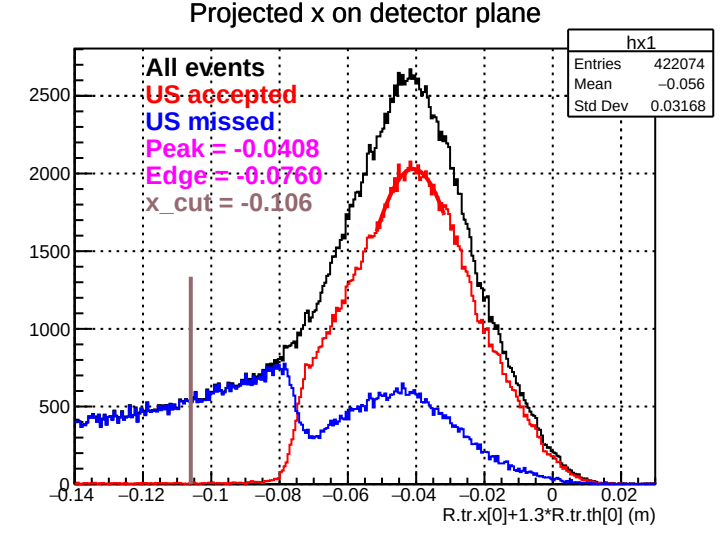

Stretched Asym. (ppm), xCut = -0.104 m
SAsym
Entries 247015
Mean 0.5574
Std Dev 0.08201
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

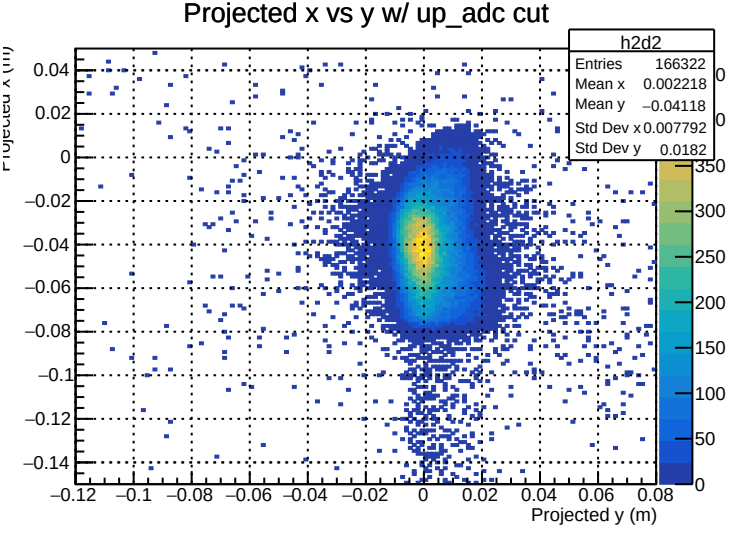

Q^2 (GeV/c)^2, xCut = -0.104 m
Q2
Entries 247015
Mean 0.00635
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

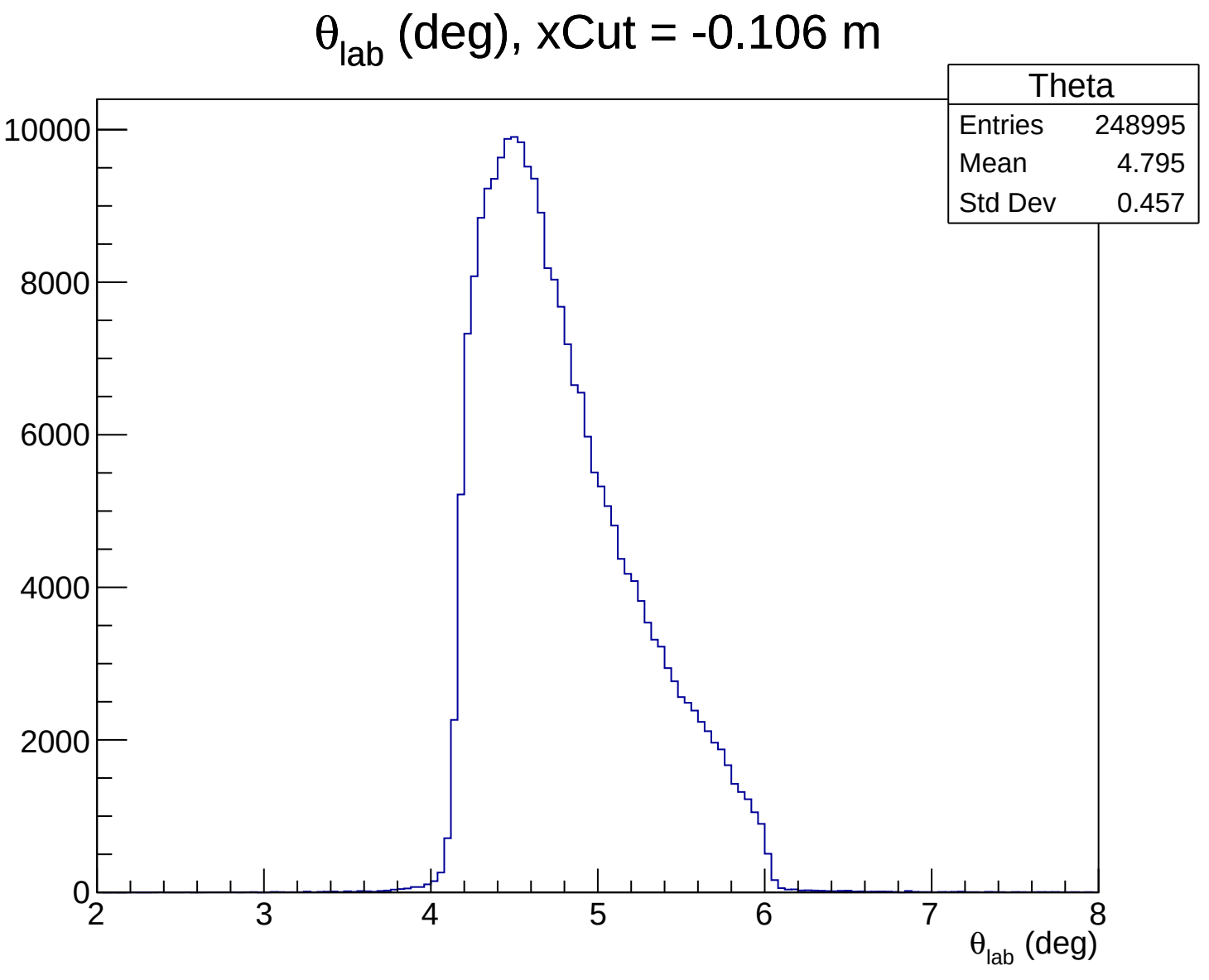

Sensitivity, xCut = -0.104 m
sens
Entries 247015
Mean 0.02231
Std Dev 0.003906
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
0 0.005 0.01 0.015 0.02 0.025 0.03 0.035 0.04 0.045 0.05

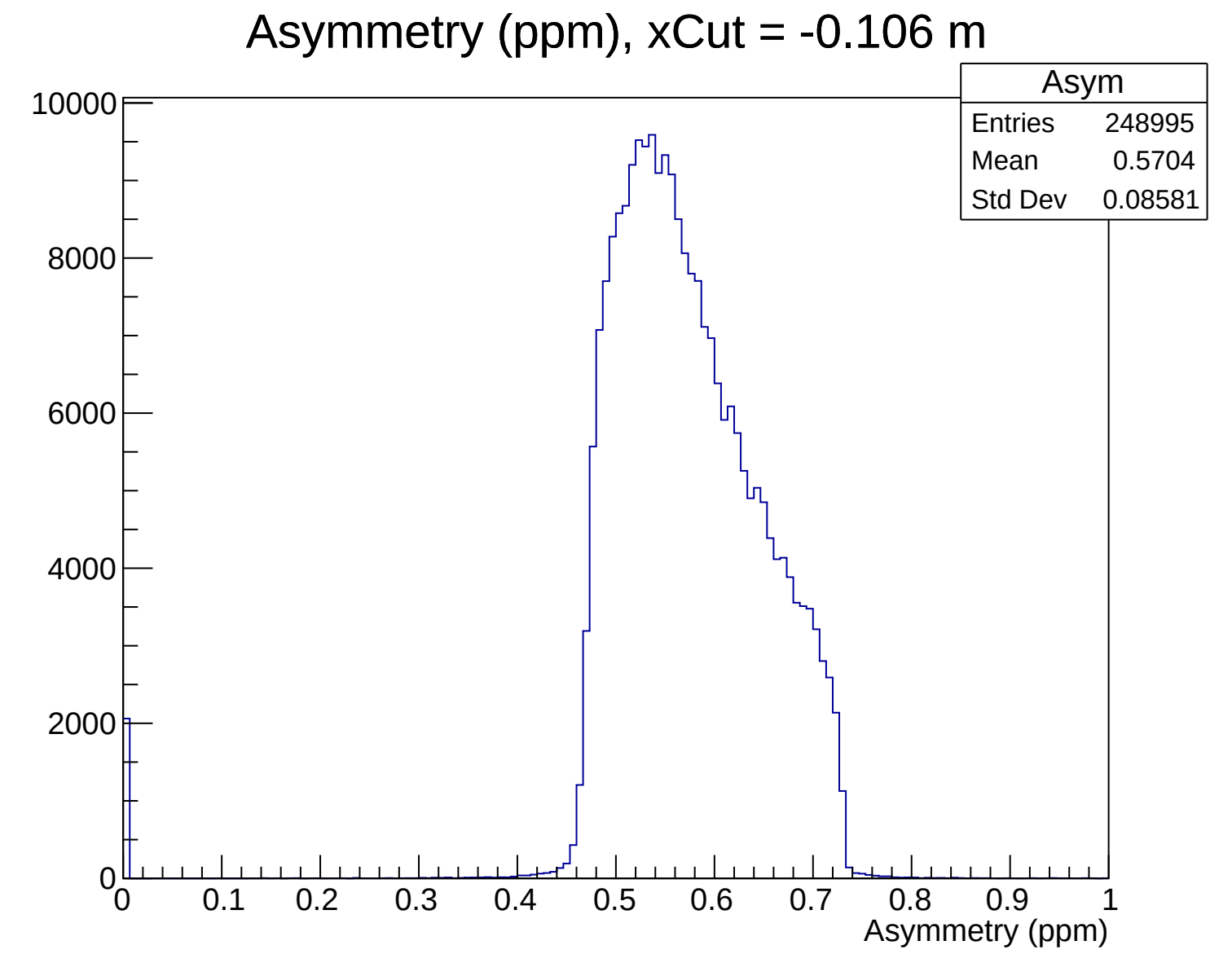

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

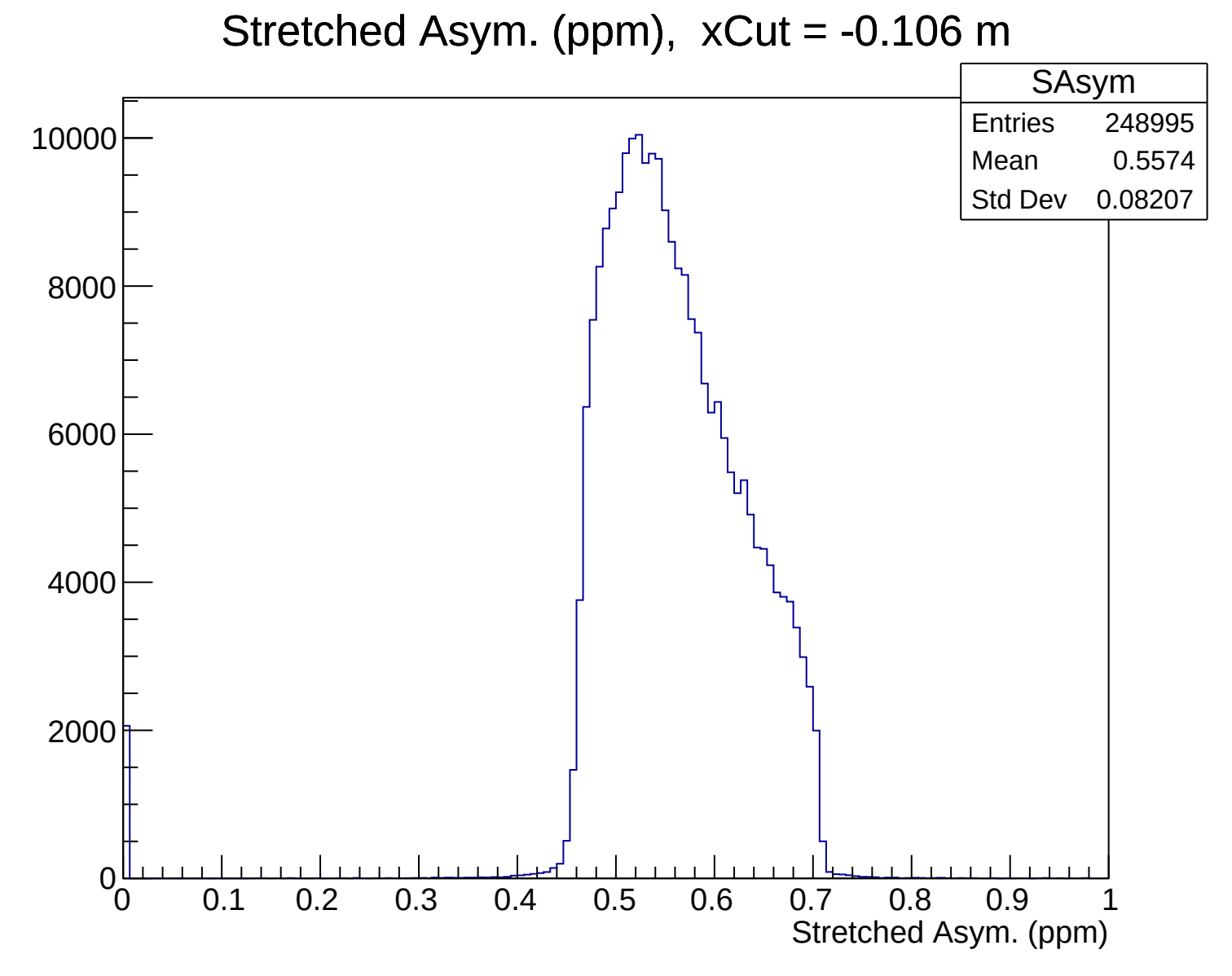

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

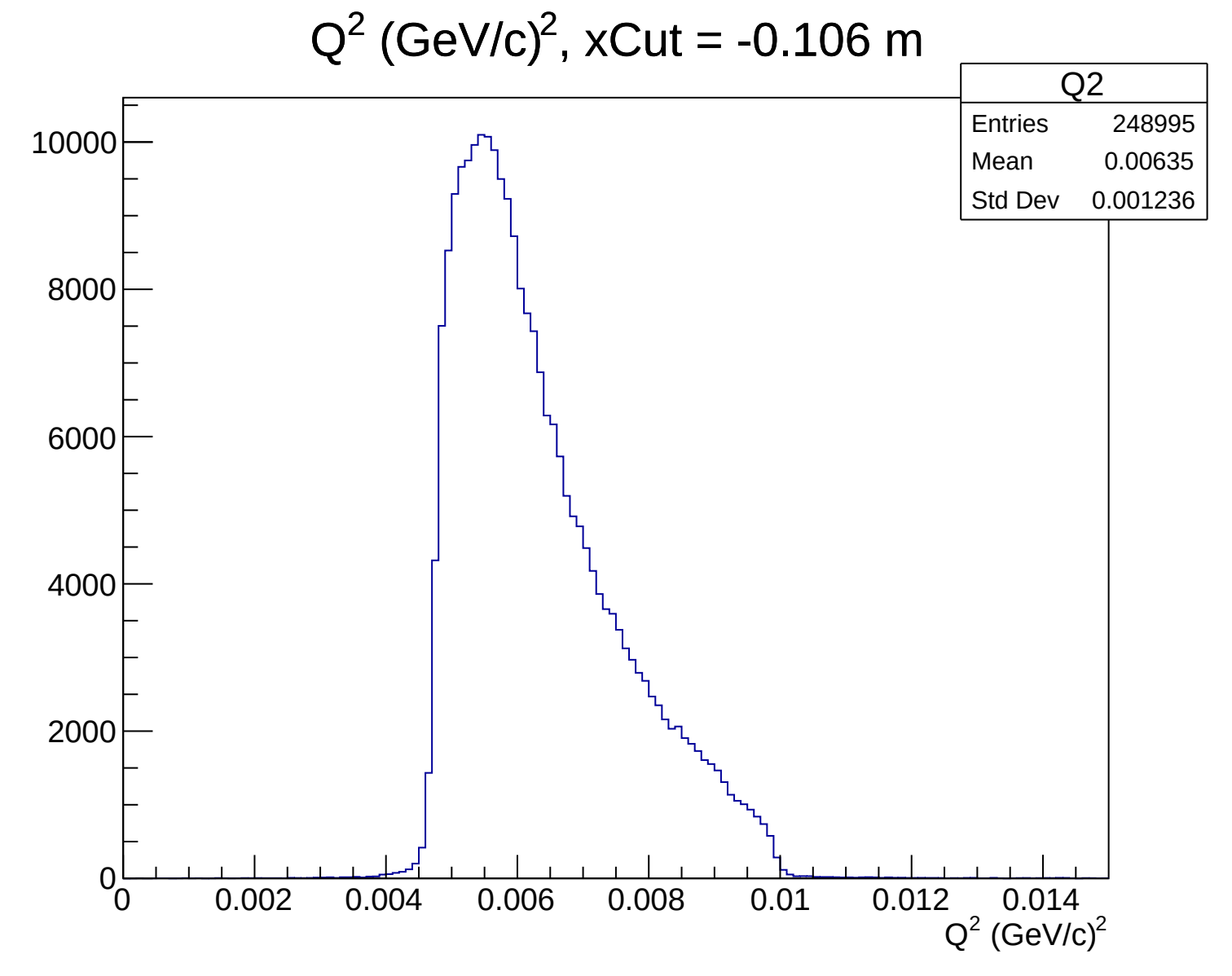

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.106
R.tr.x[0]+1.3*R.tr.th[0] (m)

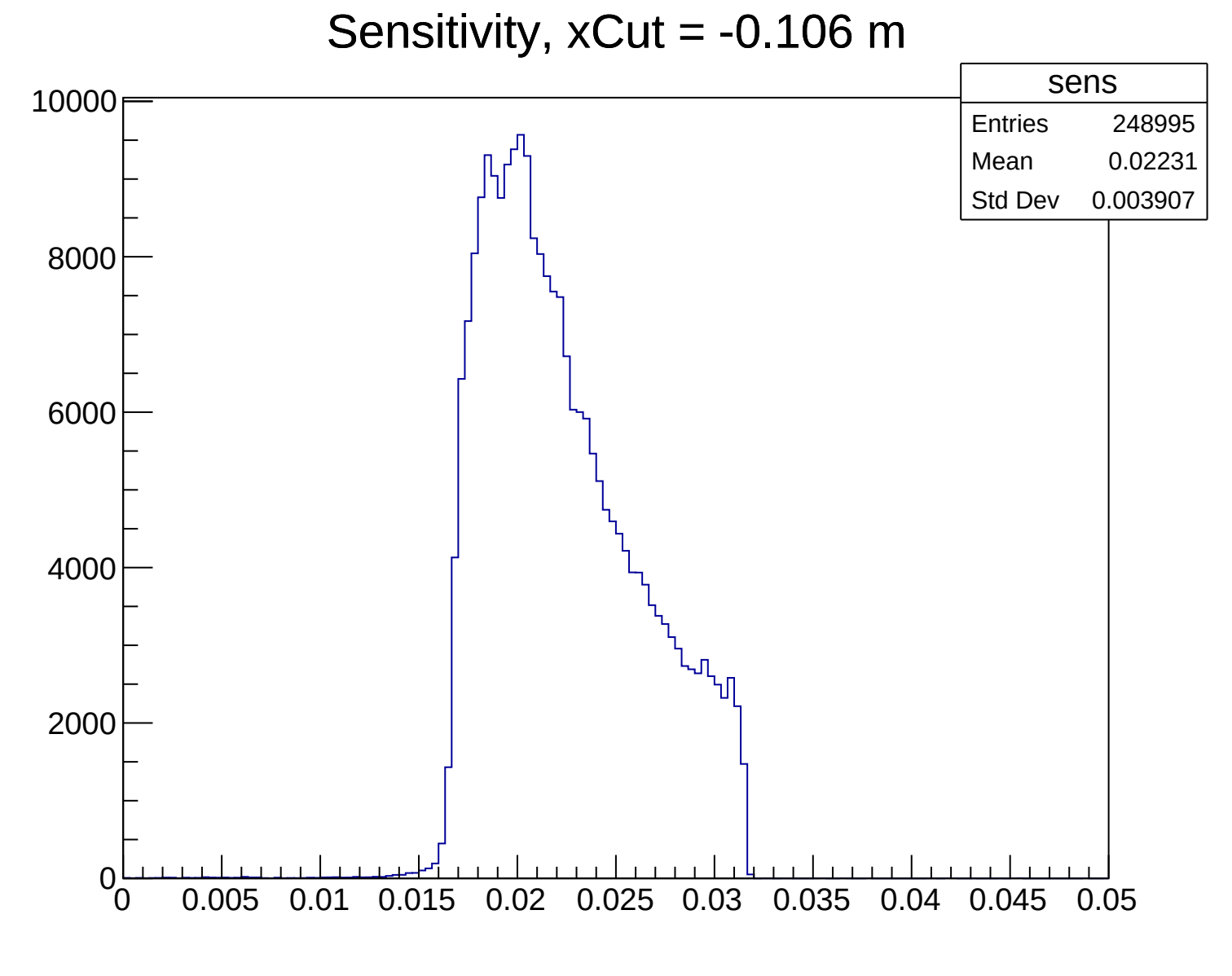

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

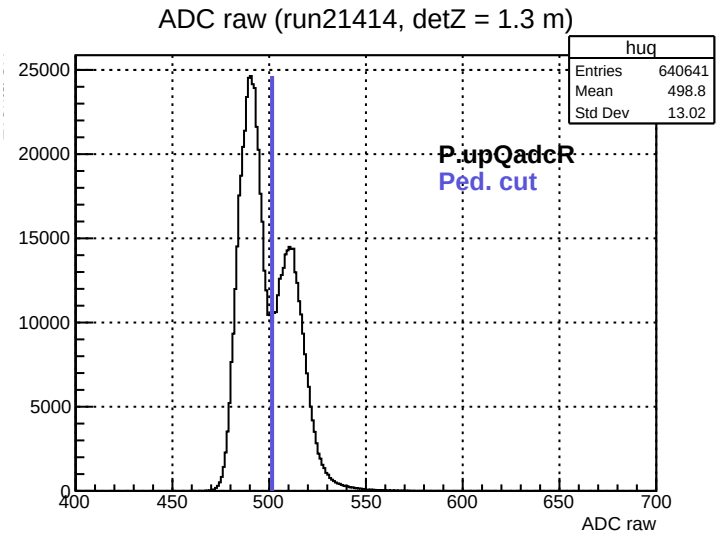

θlab (deg), xCut = -0.106 m
Theta
Entries 248995
Mean 4.795
Std Dev 0.457
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

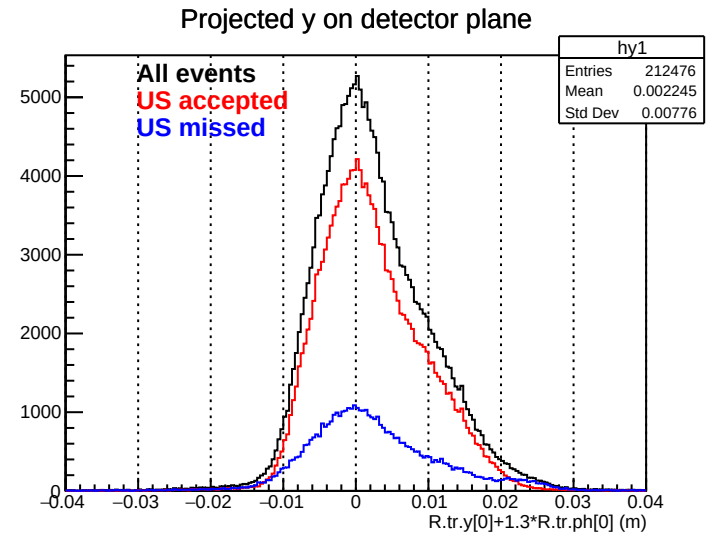

Asymmetry (ppm), xCut = -0.106 m
Asym
Entries 248995
Mean 0.5704
Std Dev 0.08581
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

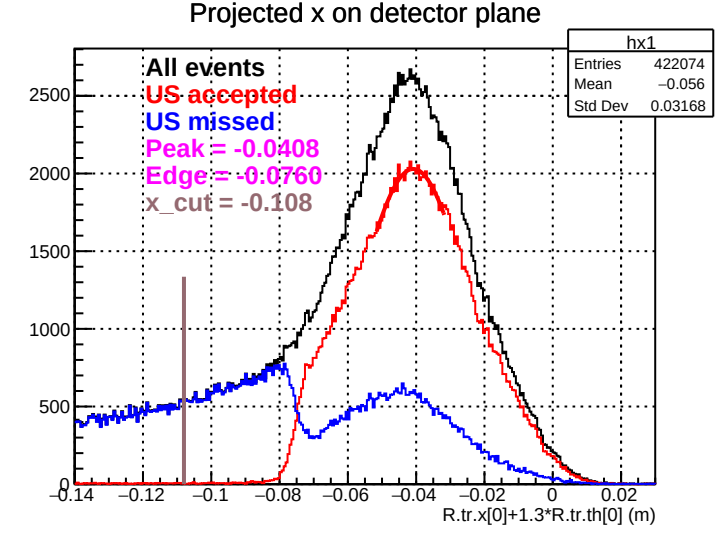

Stretched Asym. (ppm), xCut = -0.106 m
SAsym
Entries 248995
Mean 0.5574
Std Dev 0.08207
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

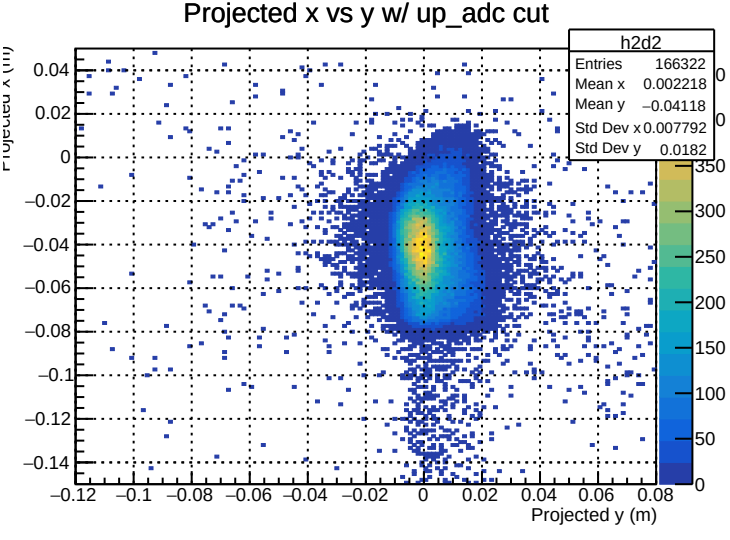

Q^2 (GeV/c)^2, xCut = -0.106 m
Q2
Entries 248995
Mean 0.00635
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

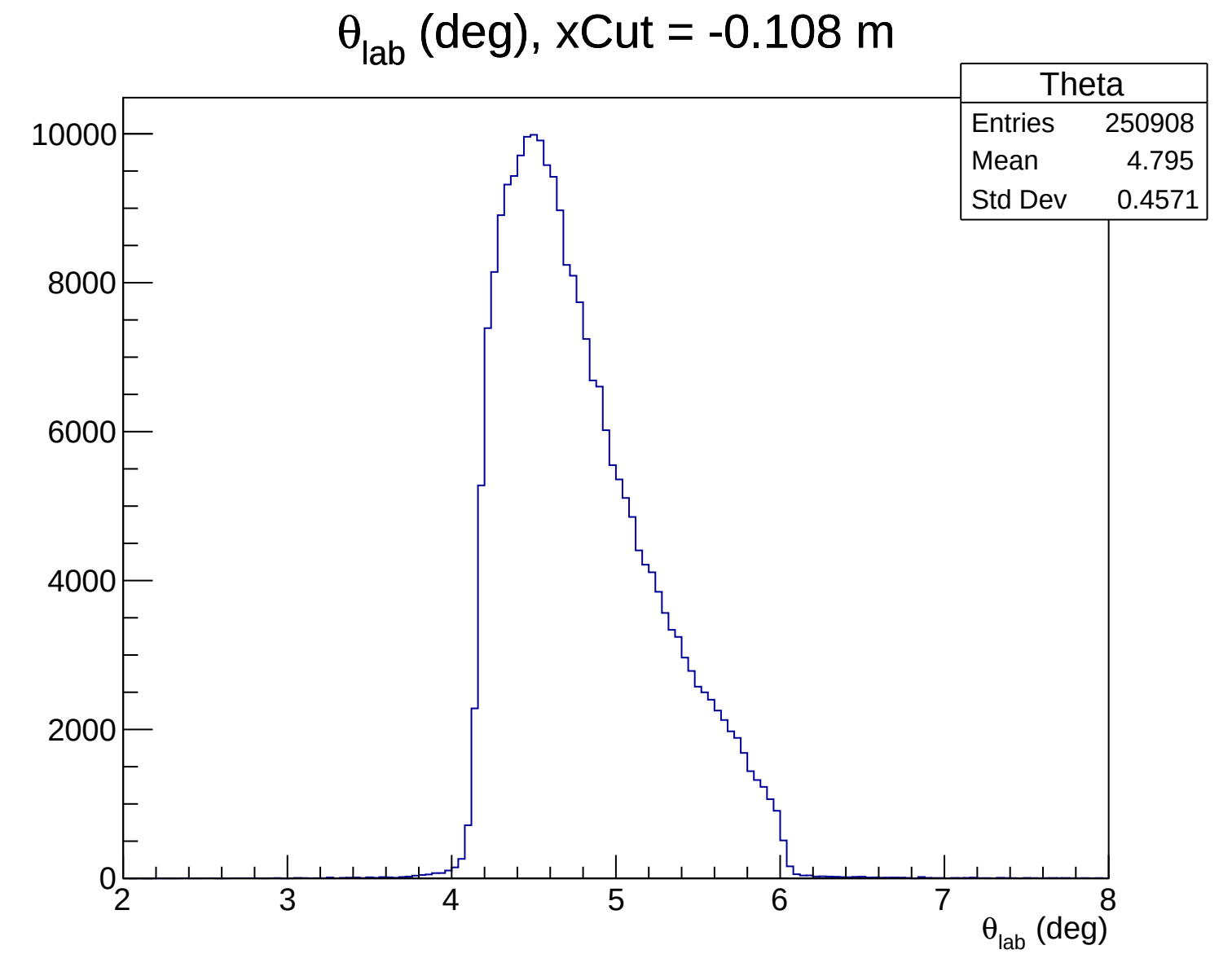

Sensitivity, xCut = -0.106 m
sens
Entries 248995
Mean 0.02231
Std Dev 0.003907
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

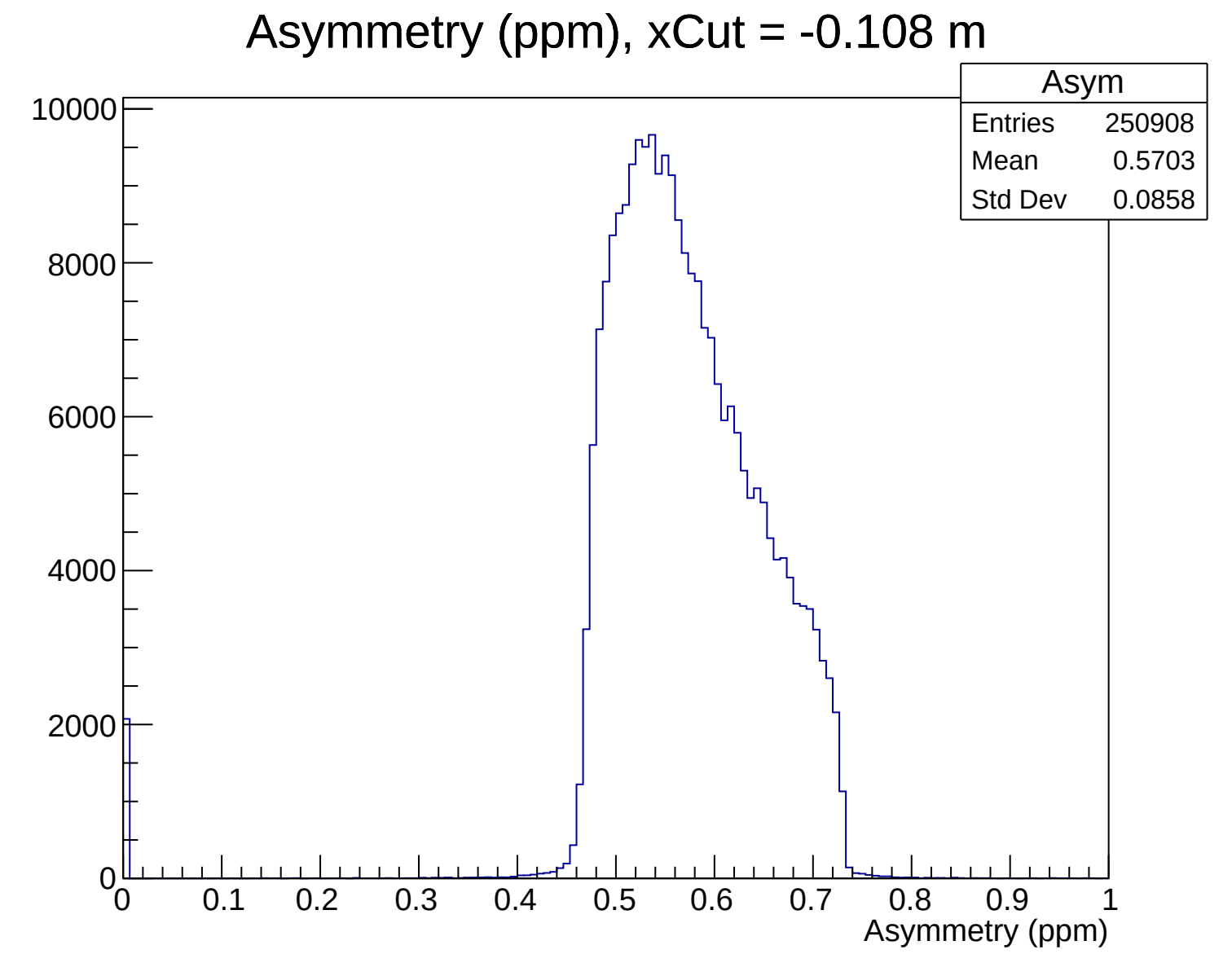

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

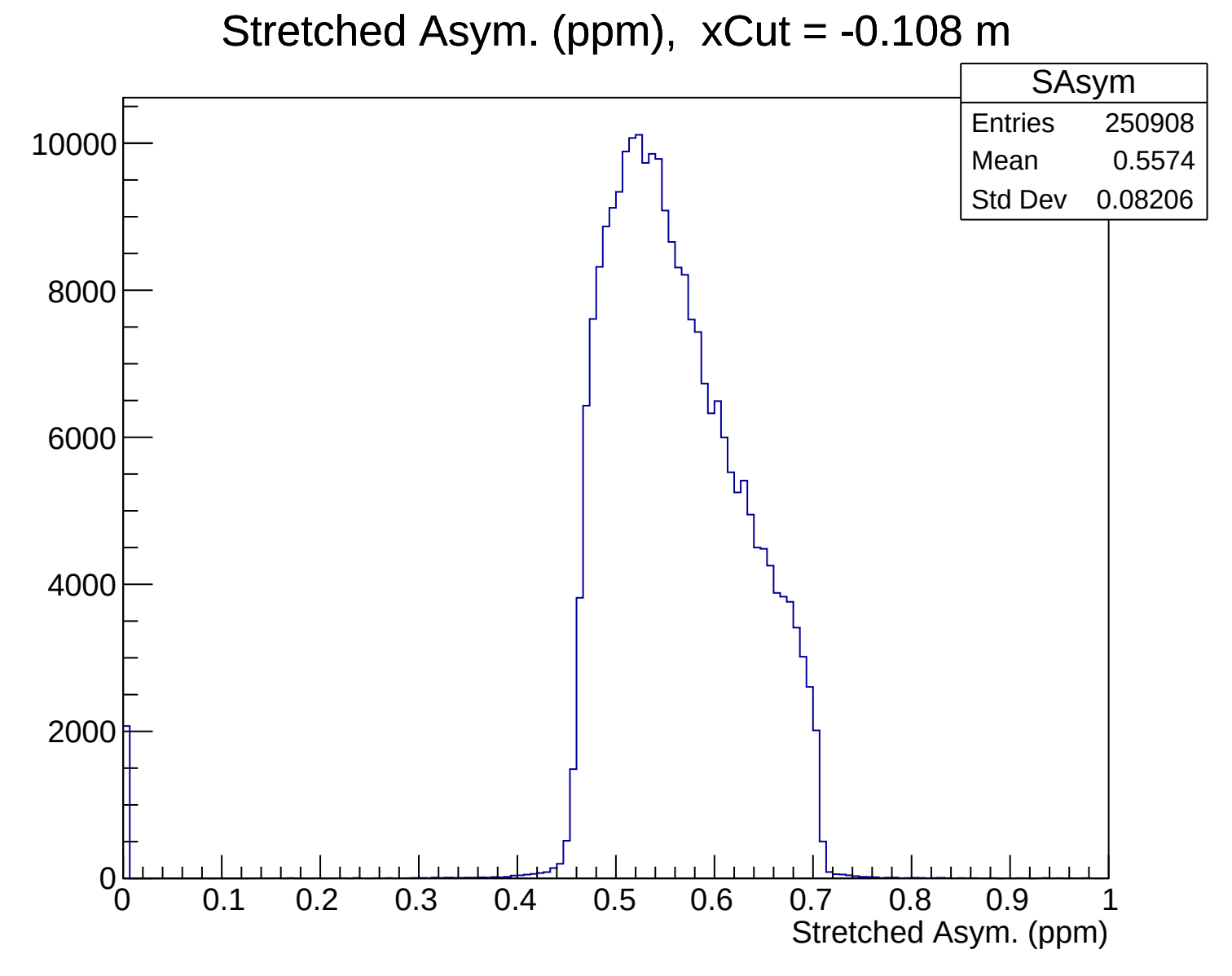

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

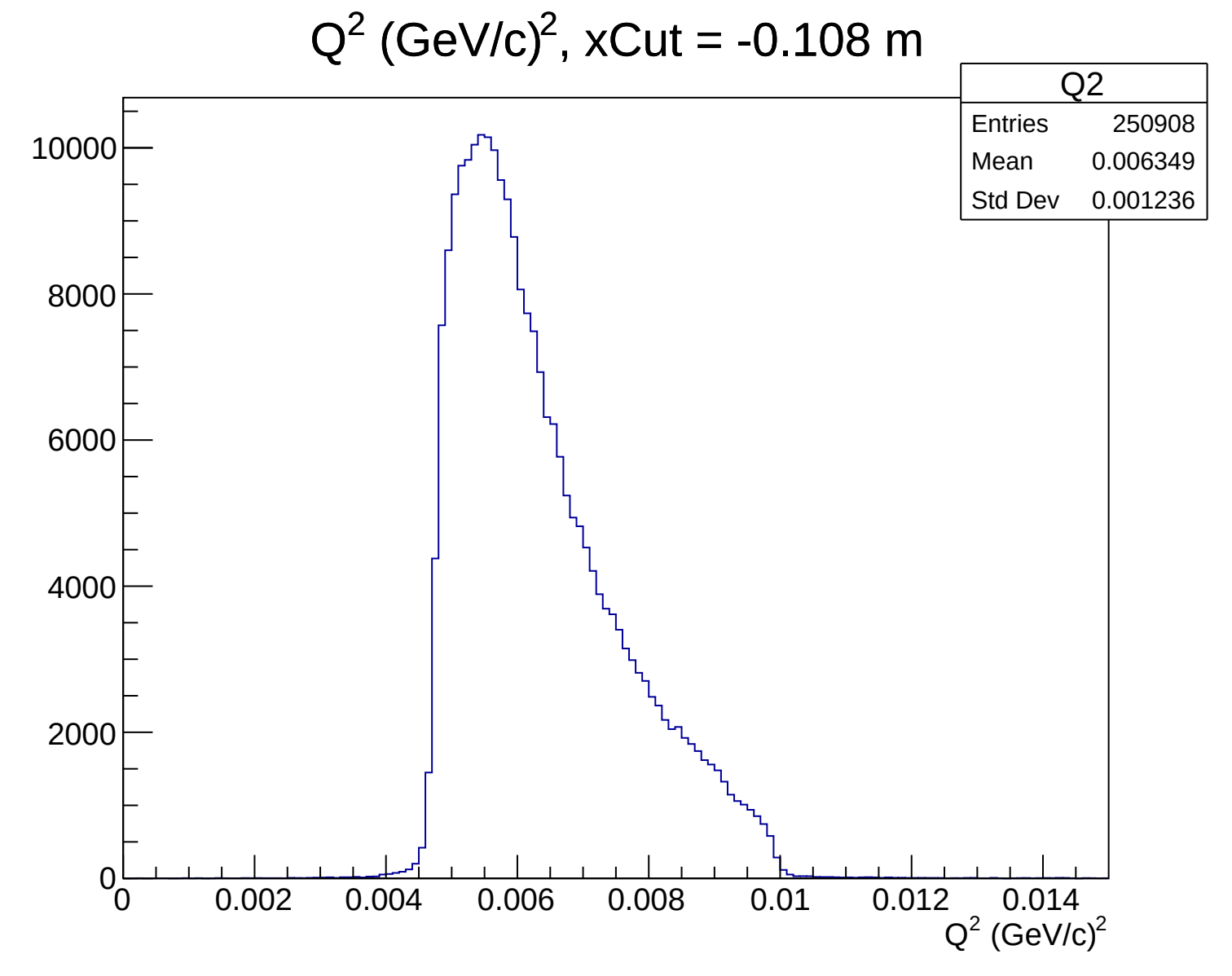

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.108
R.tr.x[0]+1.3*R.tr.th[0] (m)

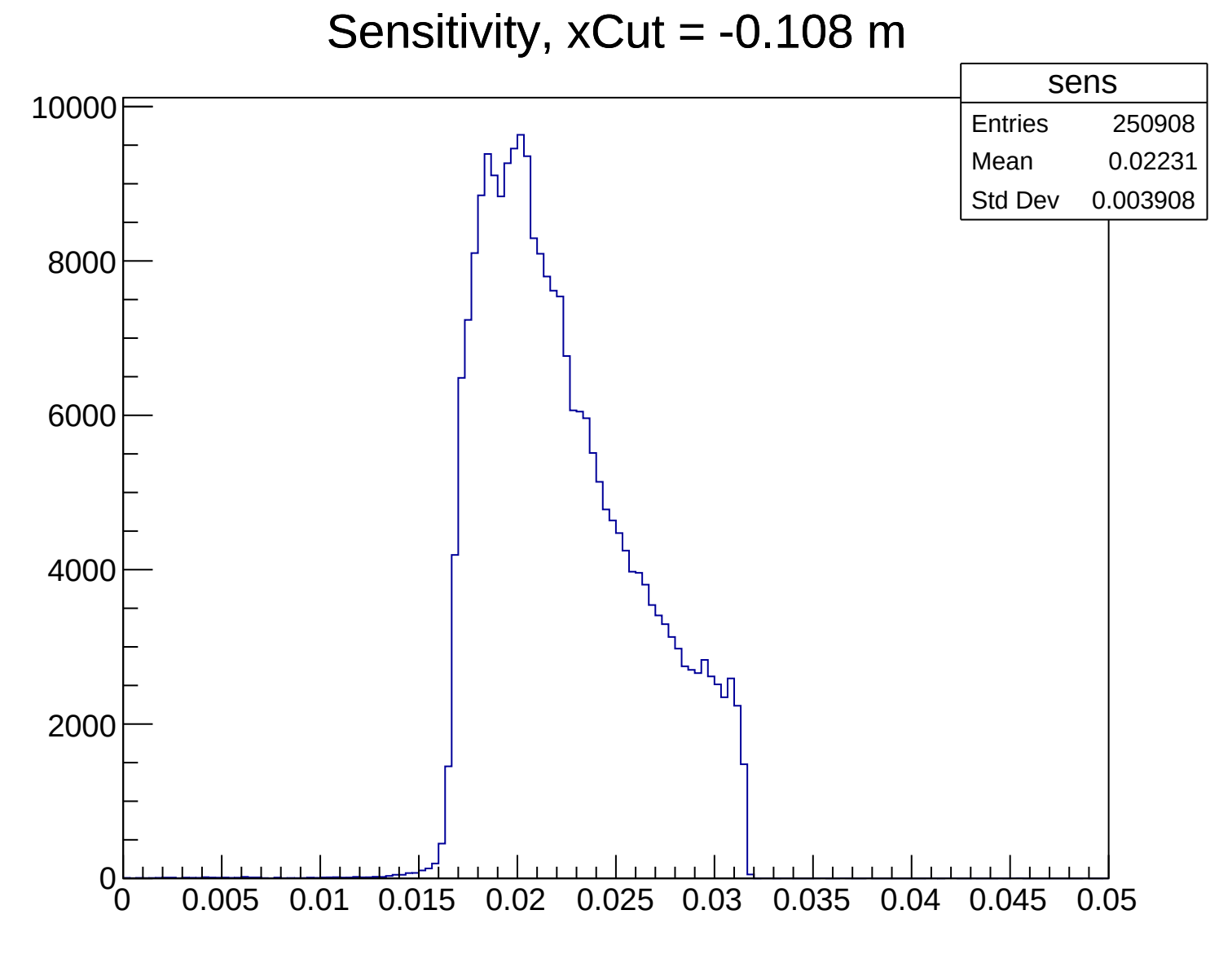

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

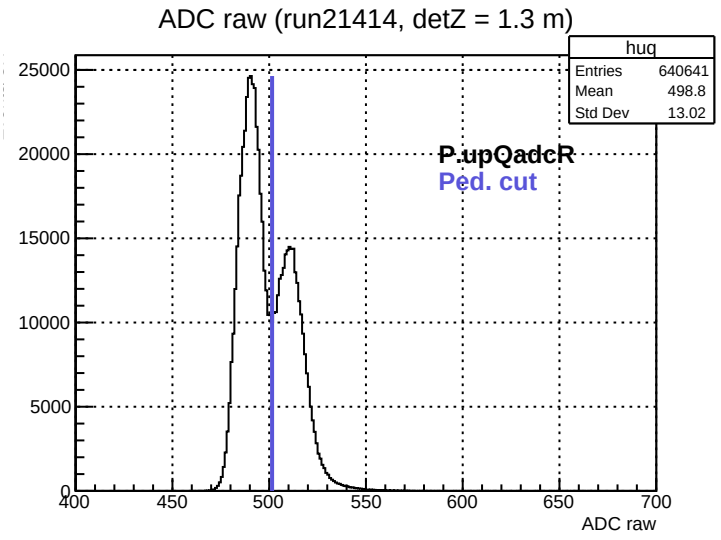

θlab (deg), xCut = -0.108 m
Theta
Entries 250908
Mean 4.795
Std Dev 0.4571
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

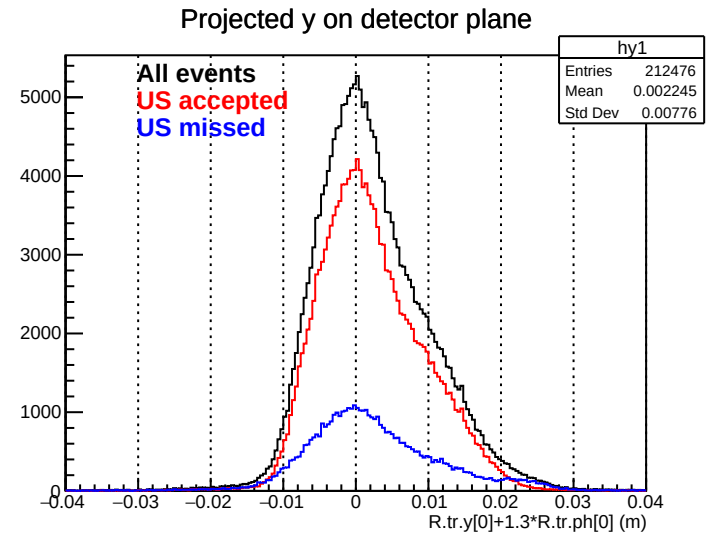

Asymmetry (ppm), xCut = -0.108 m
Asym
Entries 250908
Mean 0.5703
Std Dev 0.0858
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

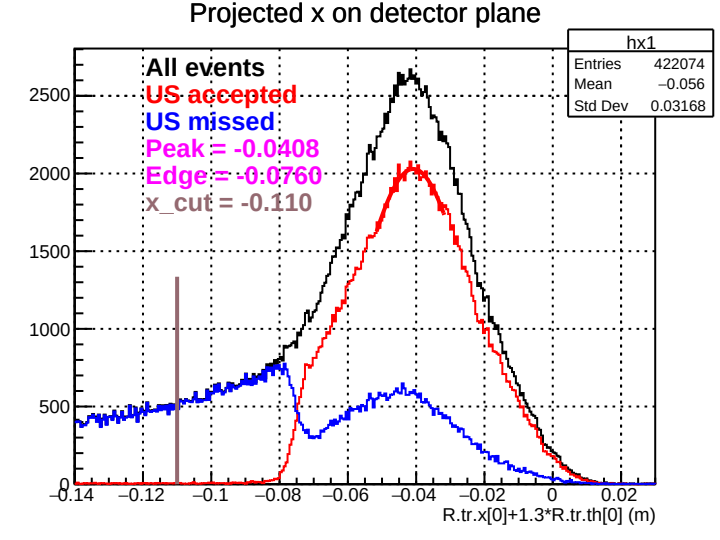

Stretched Asym. (ppm), xCut = -0.108 m
SAsym
Entries 250908
Mean 0.5574
Std Dev 0.08206
10000
8000
6000
4000
2000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

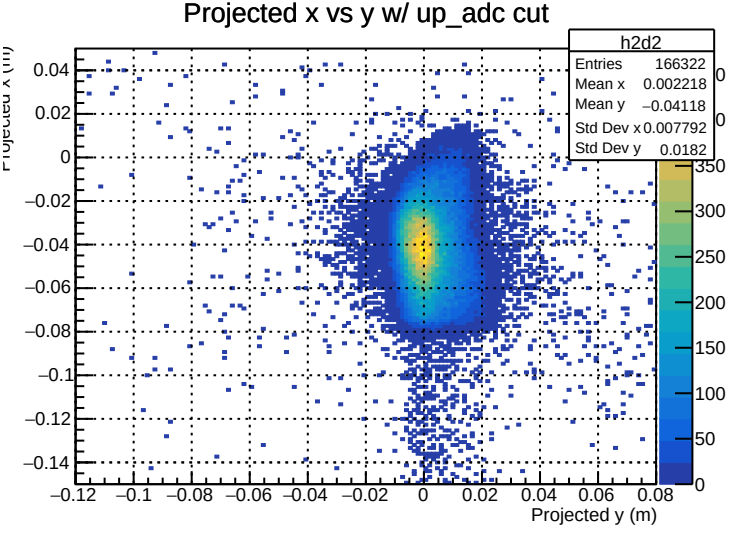

Q^2 (GeV/c)^2, xCut = -0.108 m
Q2
Entries 250908
Mean 0.006349
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

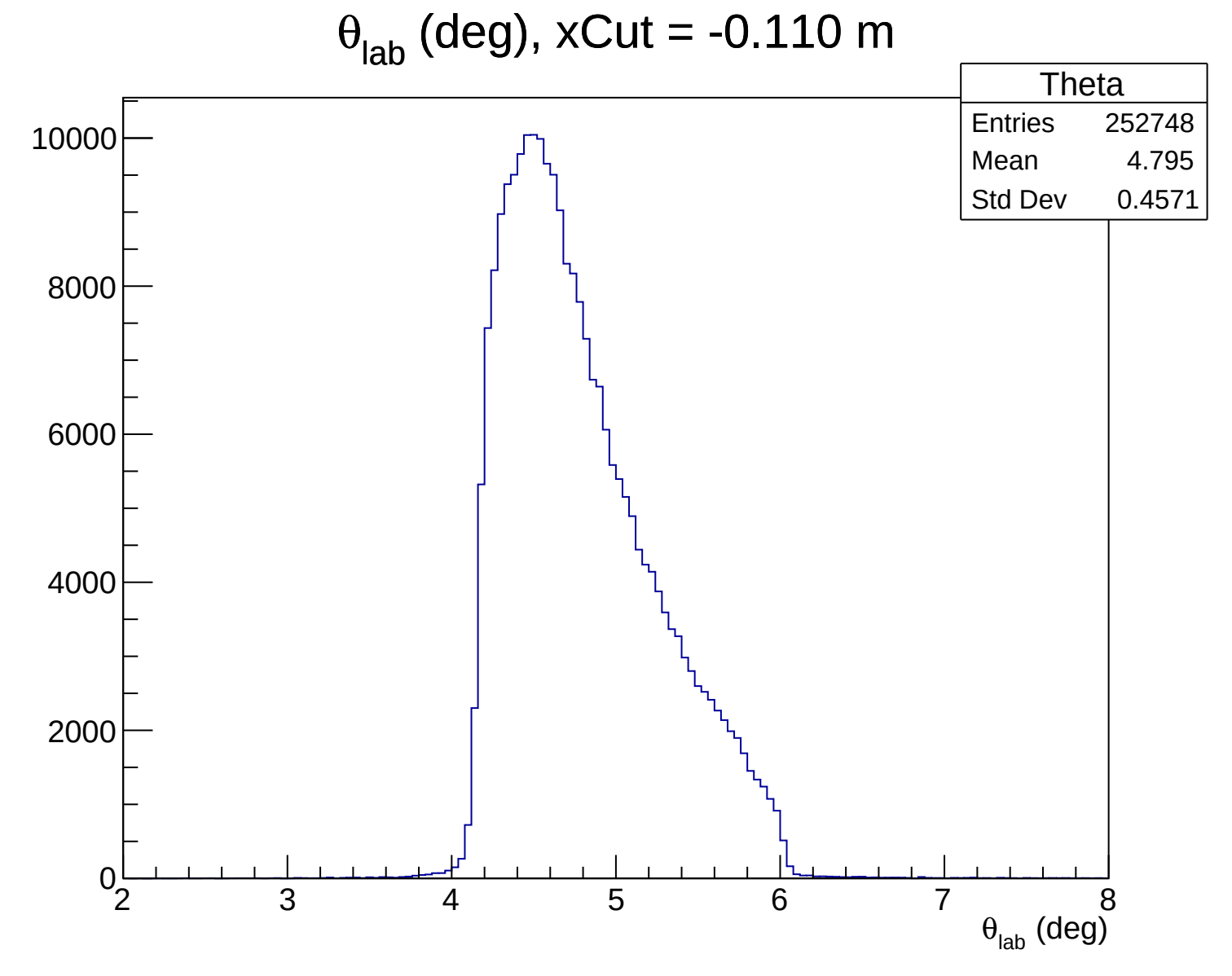

Sensitivity, xCut = -0.108 m
sens
Entries 250908
Mean 0.02231
Std Dev 0.003908
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

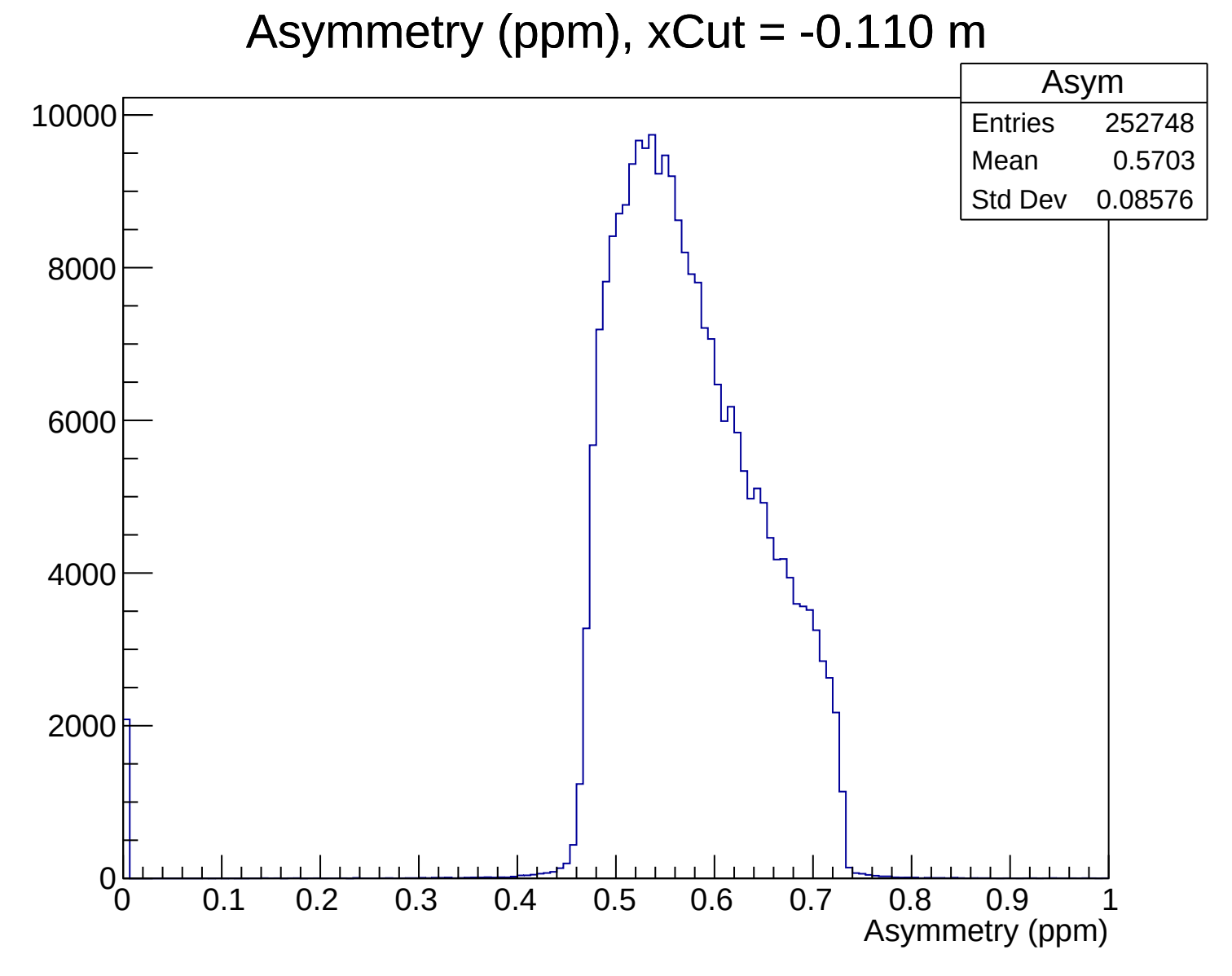

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

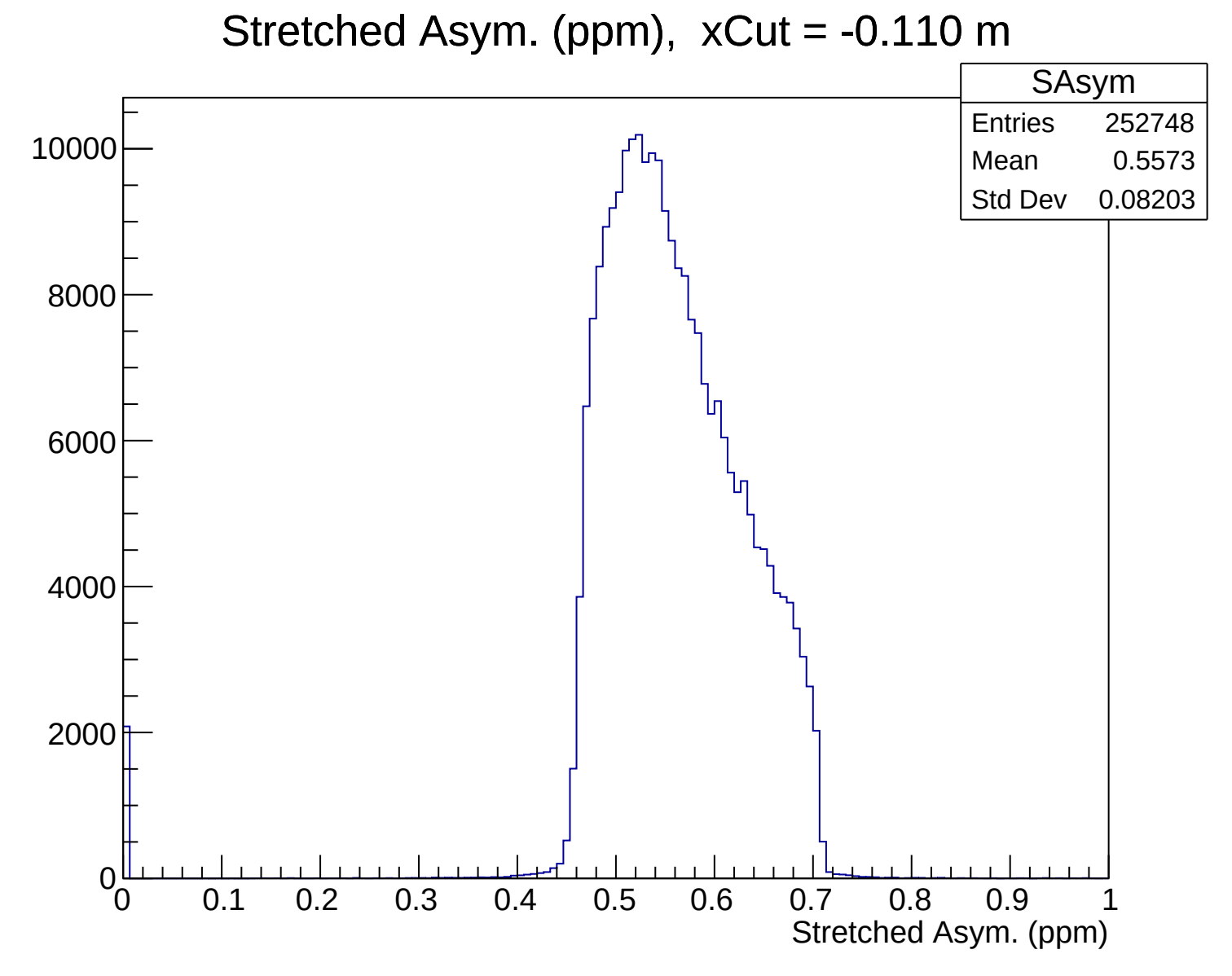

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

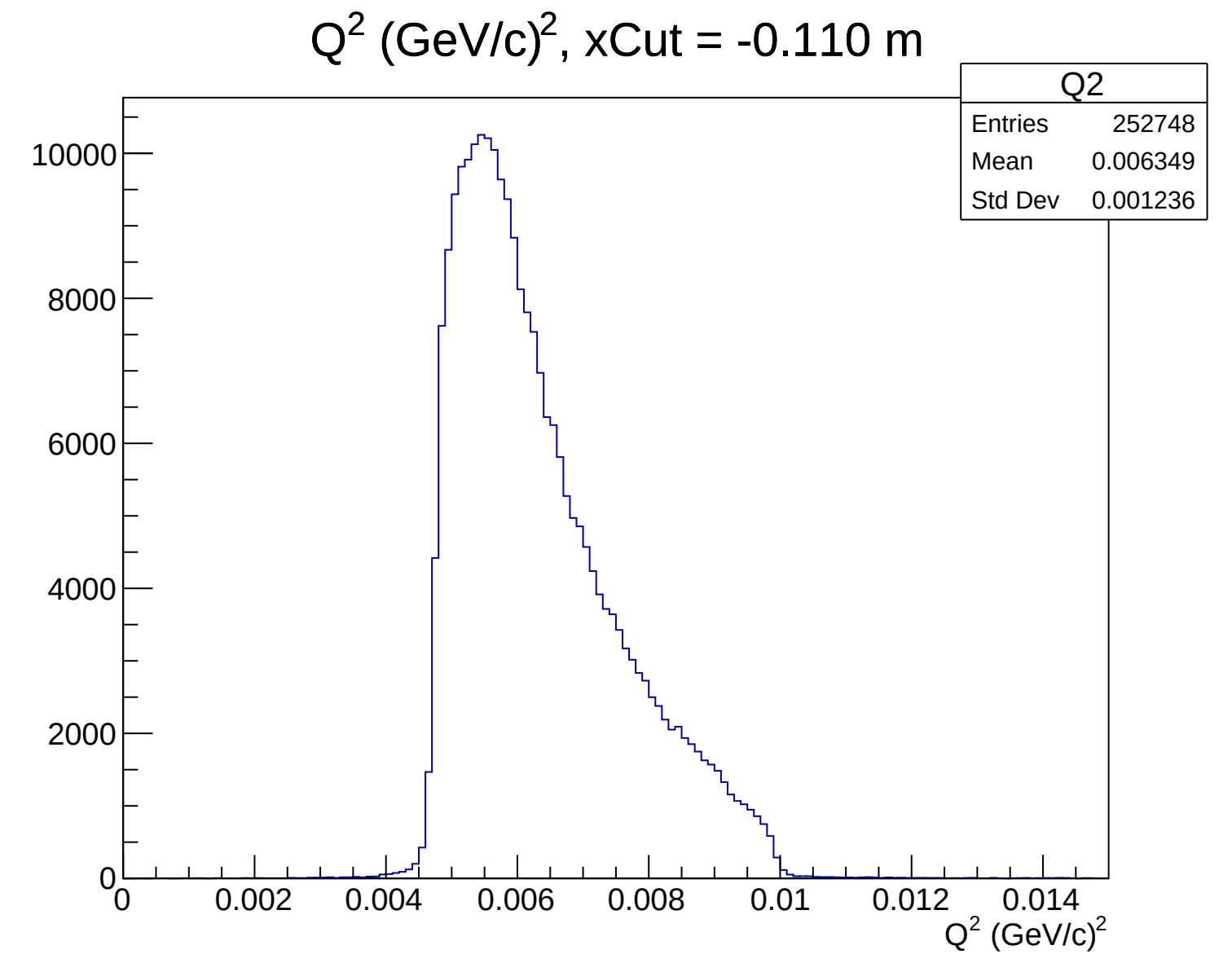

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.110
R.tr.x[0]+1.3*R.tr.th[0] (m)

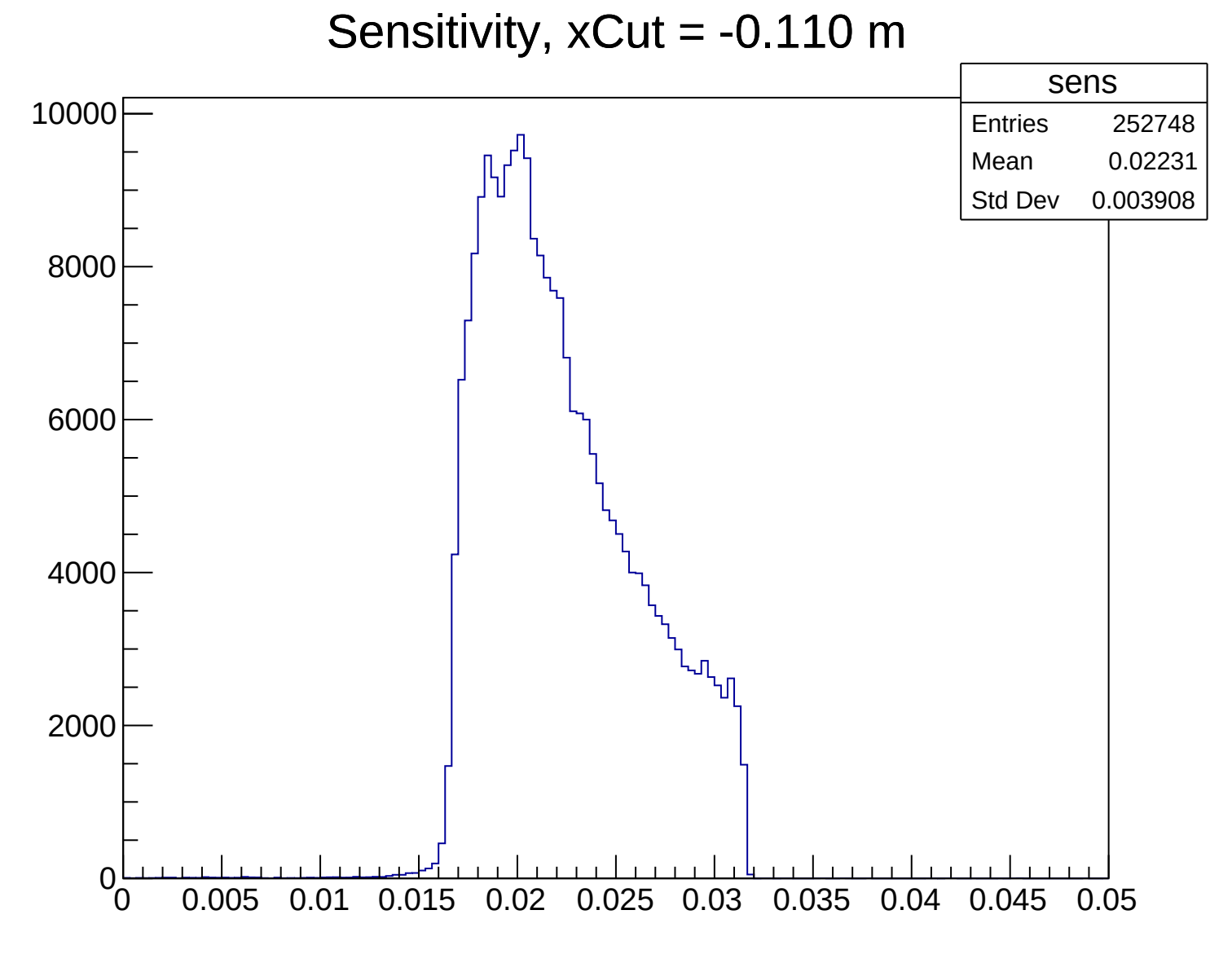

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

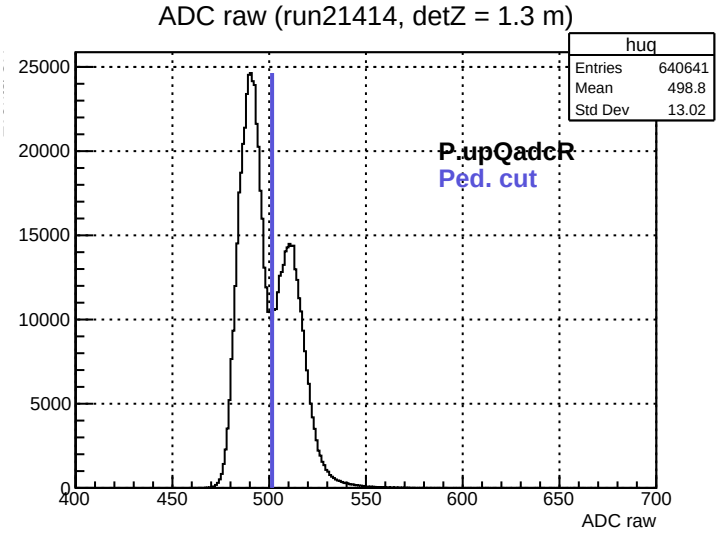

θlab (deg), xCut = -0.110 m
Theta
Entries 252748
Mean 4.795
Std Dev 0.4571
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

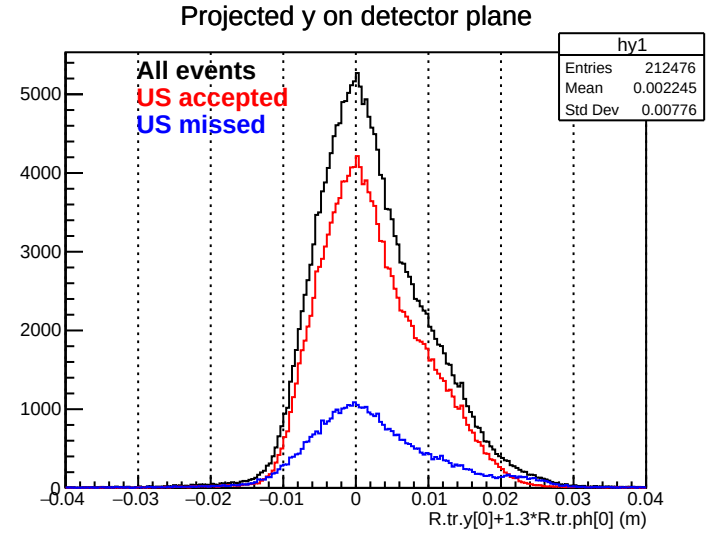

Asymmetry (ppm), xCut = -0.110 m
Asym
Entries 252748
Mean 0.5703
Std Dev 0.08576
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

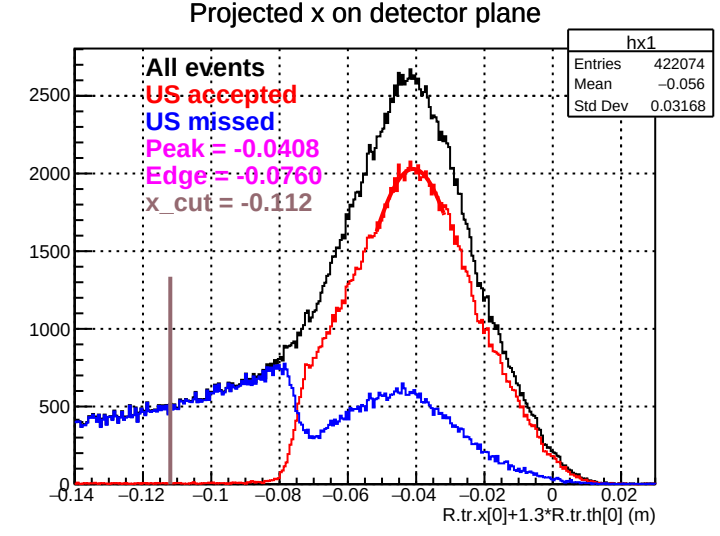

Stretched Asym. (ppm), xCut = -0.110 m
SAsym
Entries 252748
Mean 0.5573
Std Dev 0.08203
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

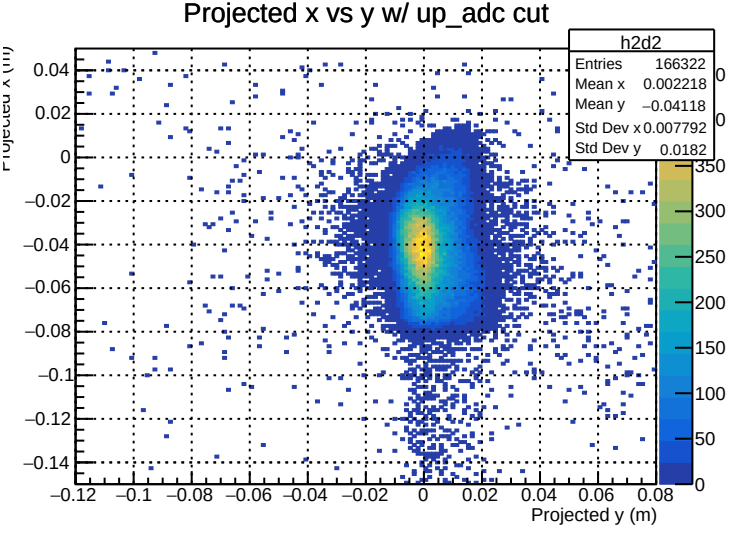

Q^2 (GeV/c)^2, xCut = -0.110 m
Q2
Entries 252748
Mean 0.006349
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

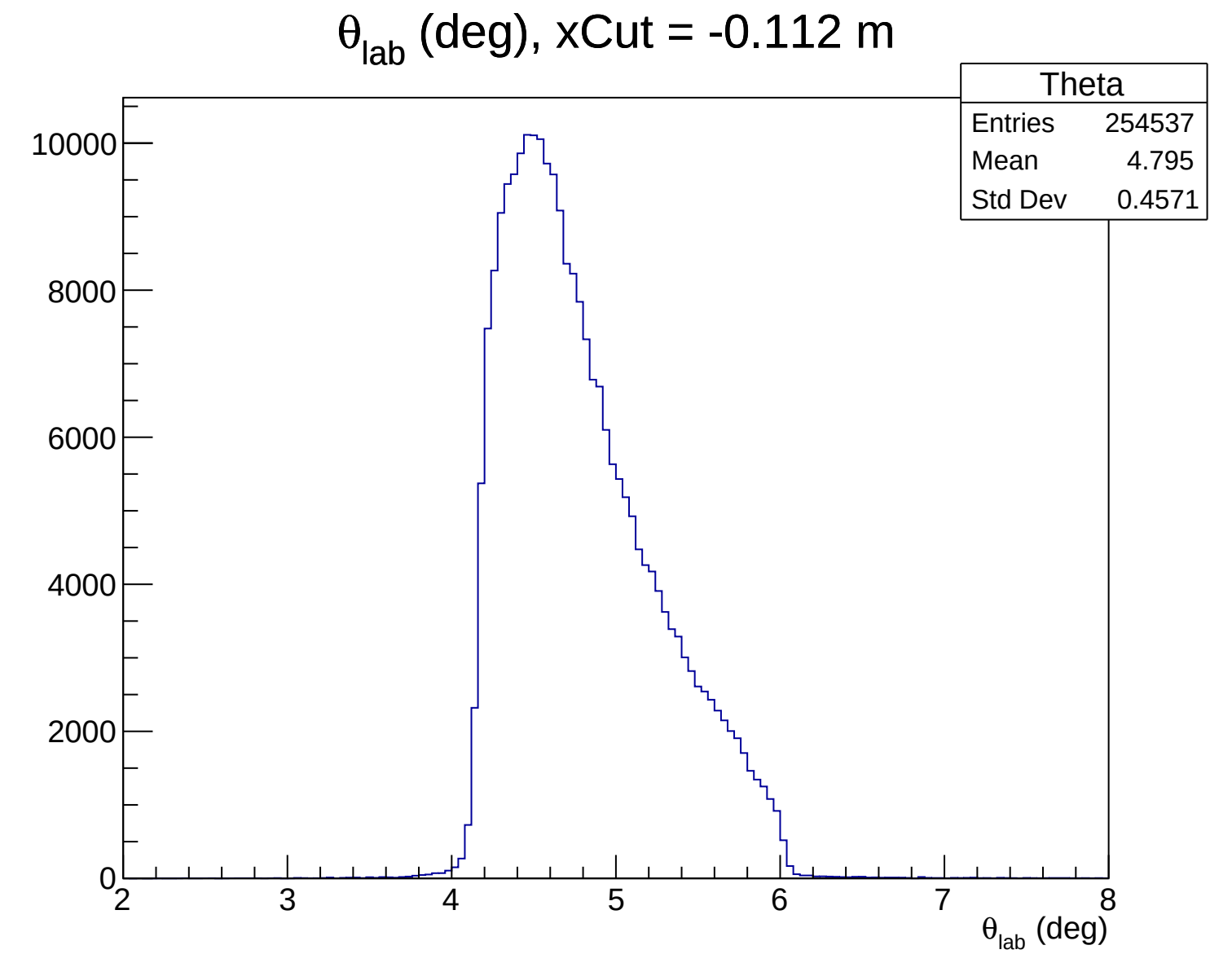

Sensitivity, xCut = -0.110 m
sens
Entries 252748
Mean 0.02231
Std Dev 0.003908
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

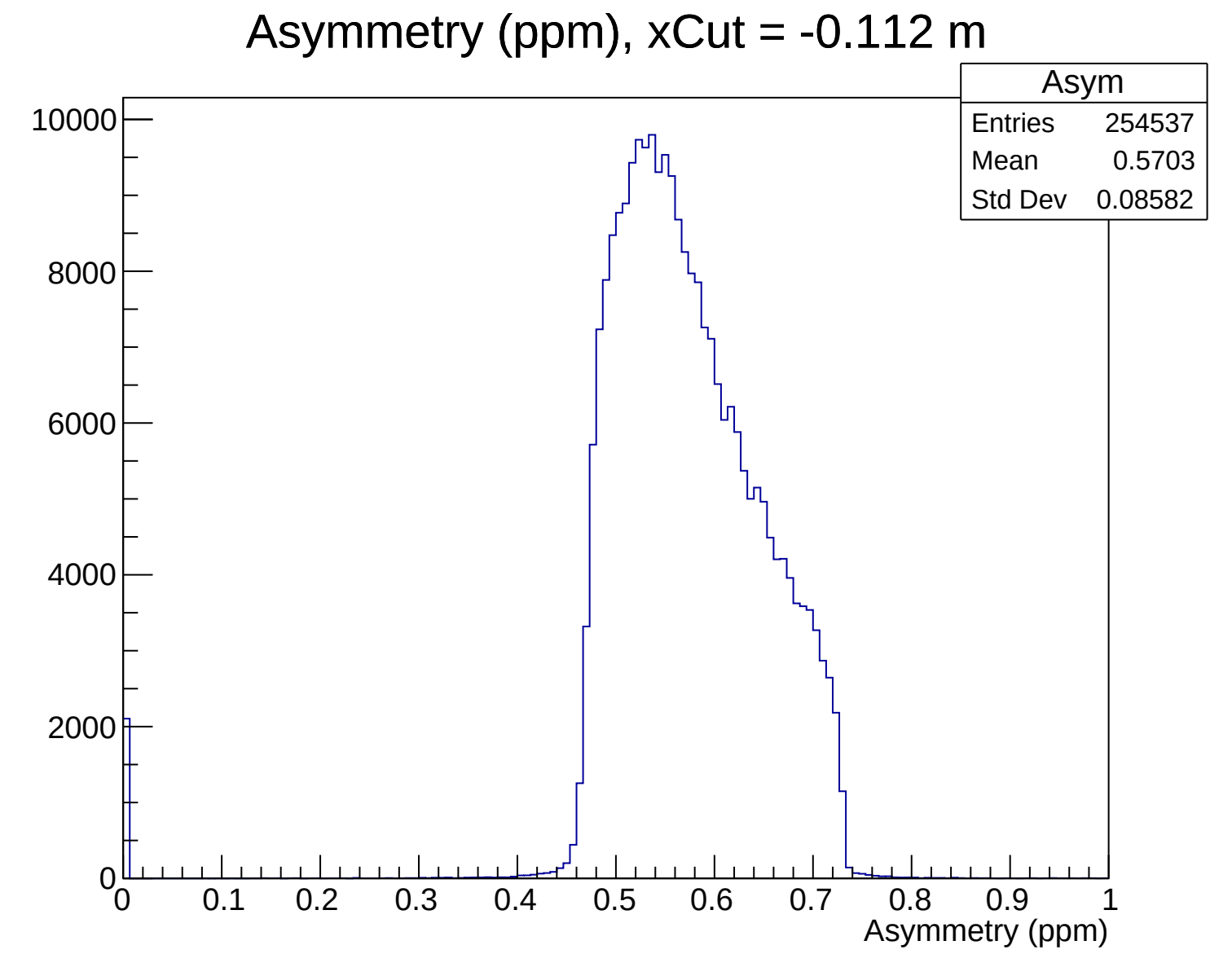

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

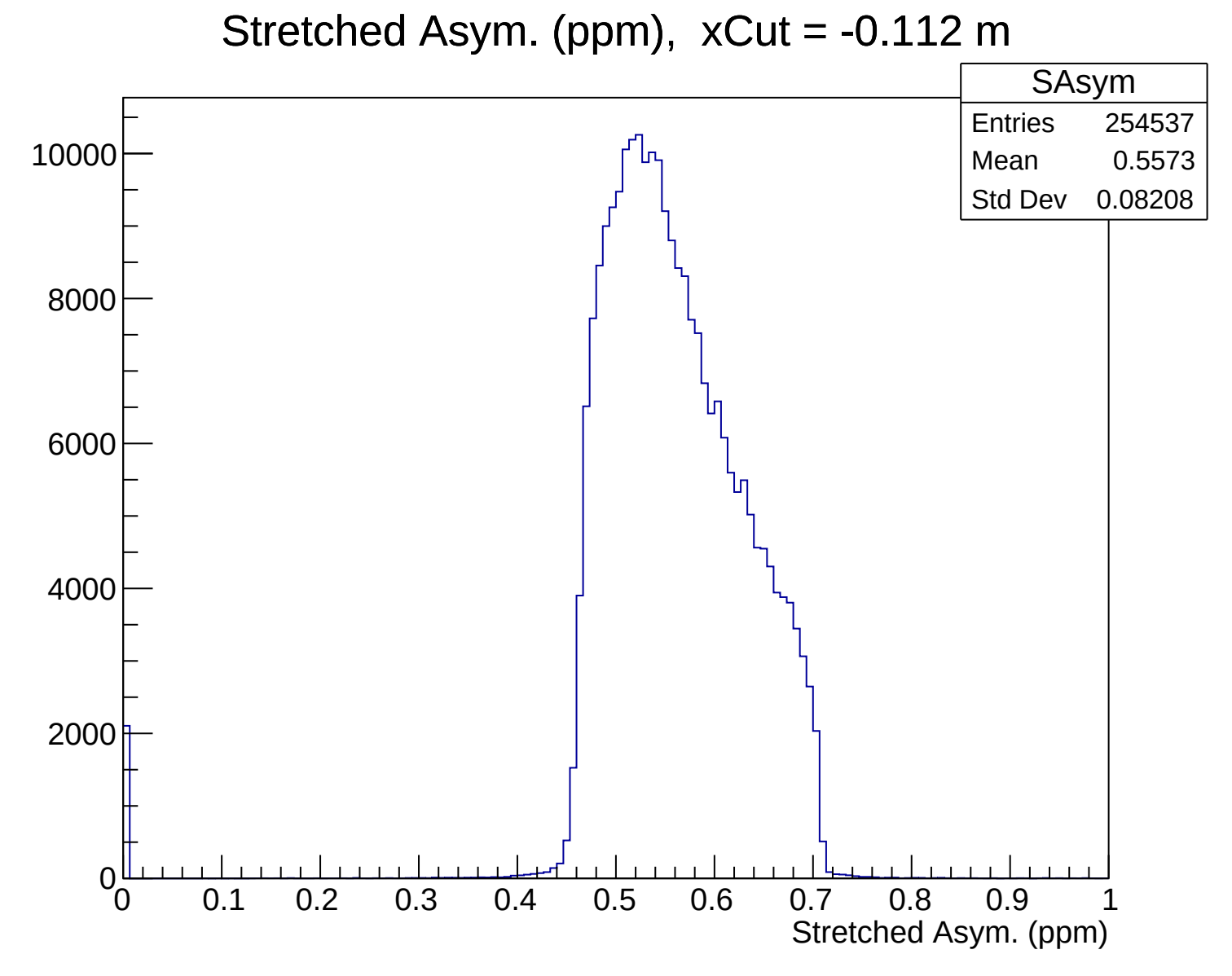

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

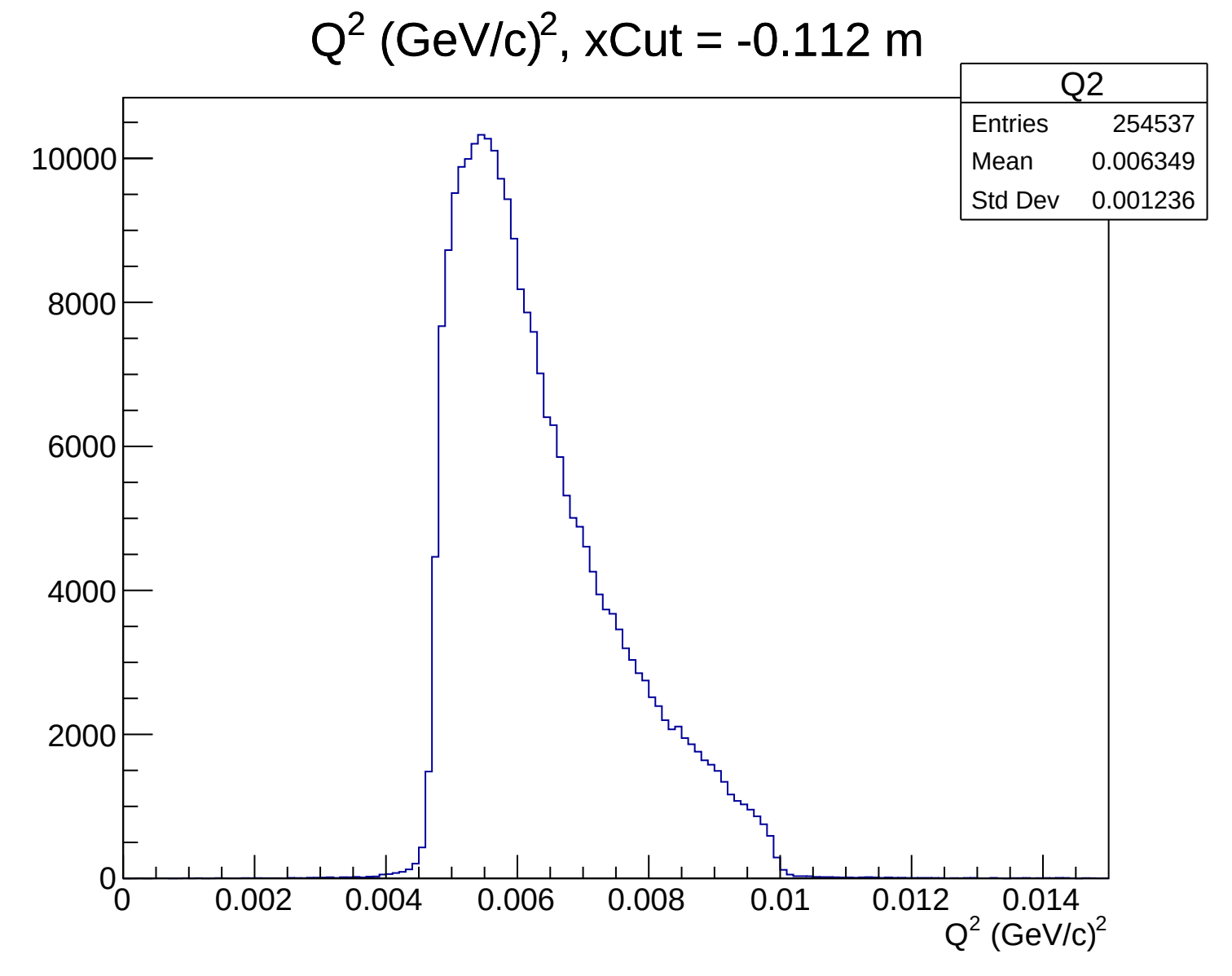

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.112
R.tr.x[0]+1.3*R.tr.th[0] (m)

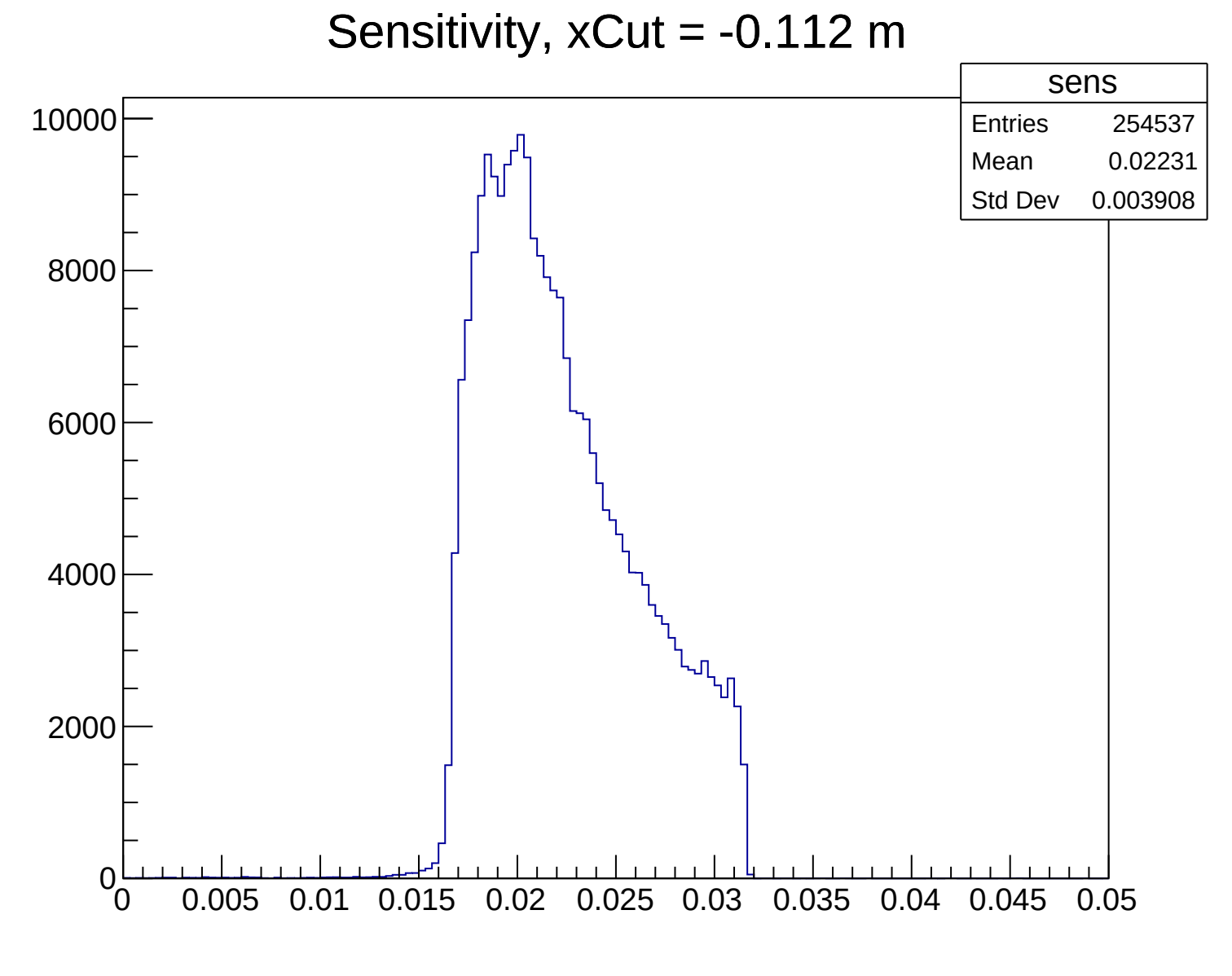

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)

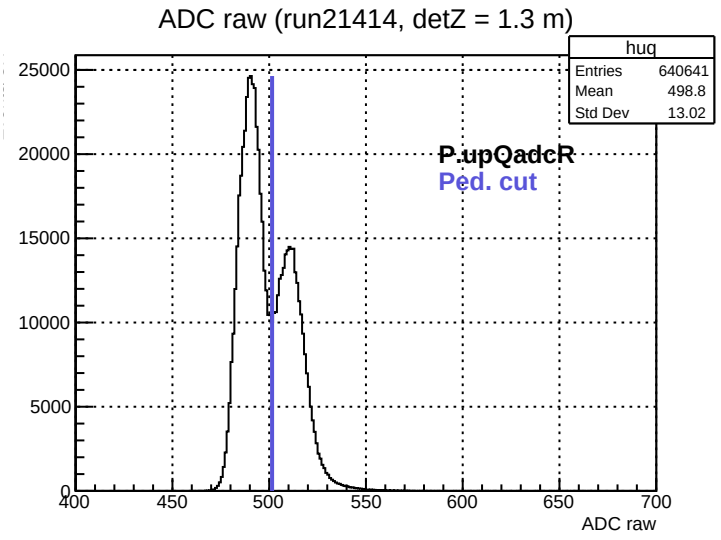

θlab (deg), xCut = -0.112 m
Theta
Entries 254537
Mean 4.795
Std Dev 0.4571
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)

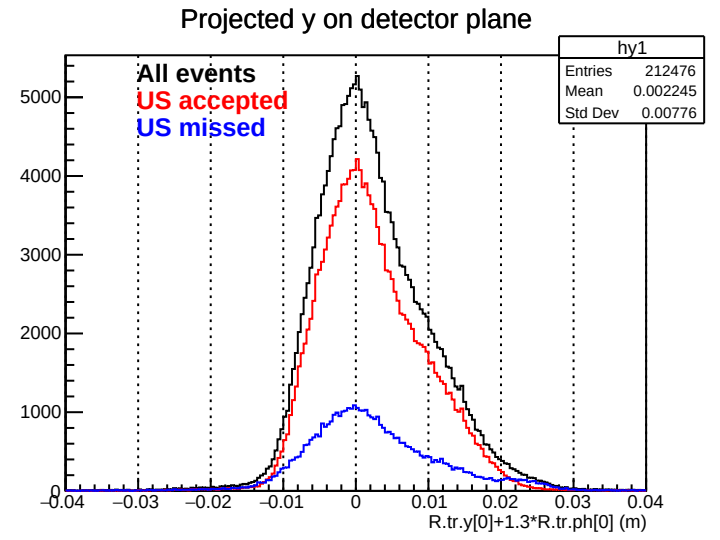

Asymmetry (ppm), xCut = -0.112 m
Asym
Entries 254537
Mean 0.5703
Std Dev 0.08582
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

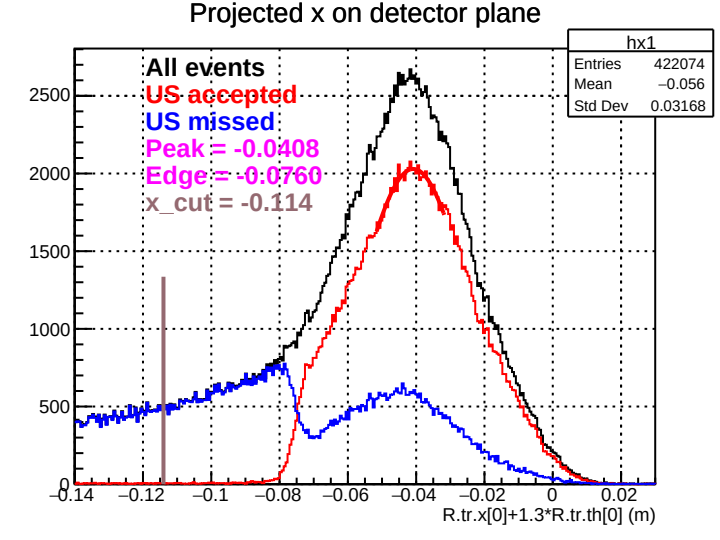

Stretched Asym. (ppm), xCut = -0.112 m
SAsym
Entries 254537
Mean 0.5573
Std Dev 0.08208
10000
8000
6000
4000
2000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

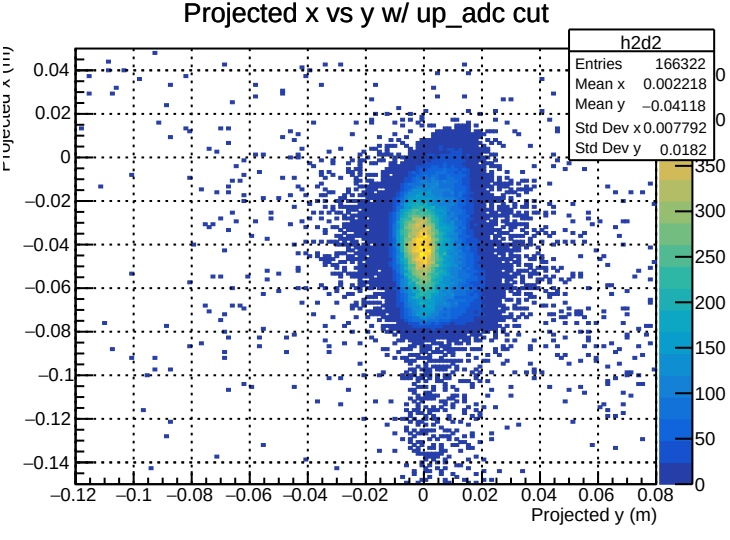

Q^2 (GeV/c)^2, xCut = -0.112 m
Q2
Entries 254537
Mean 0.006349
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

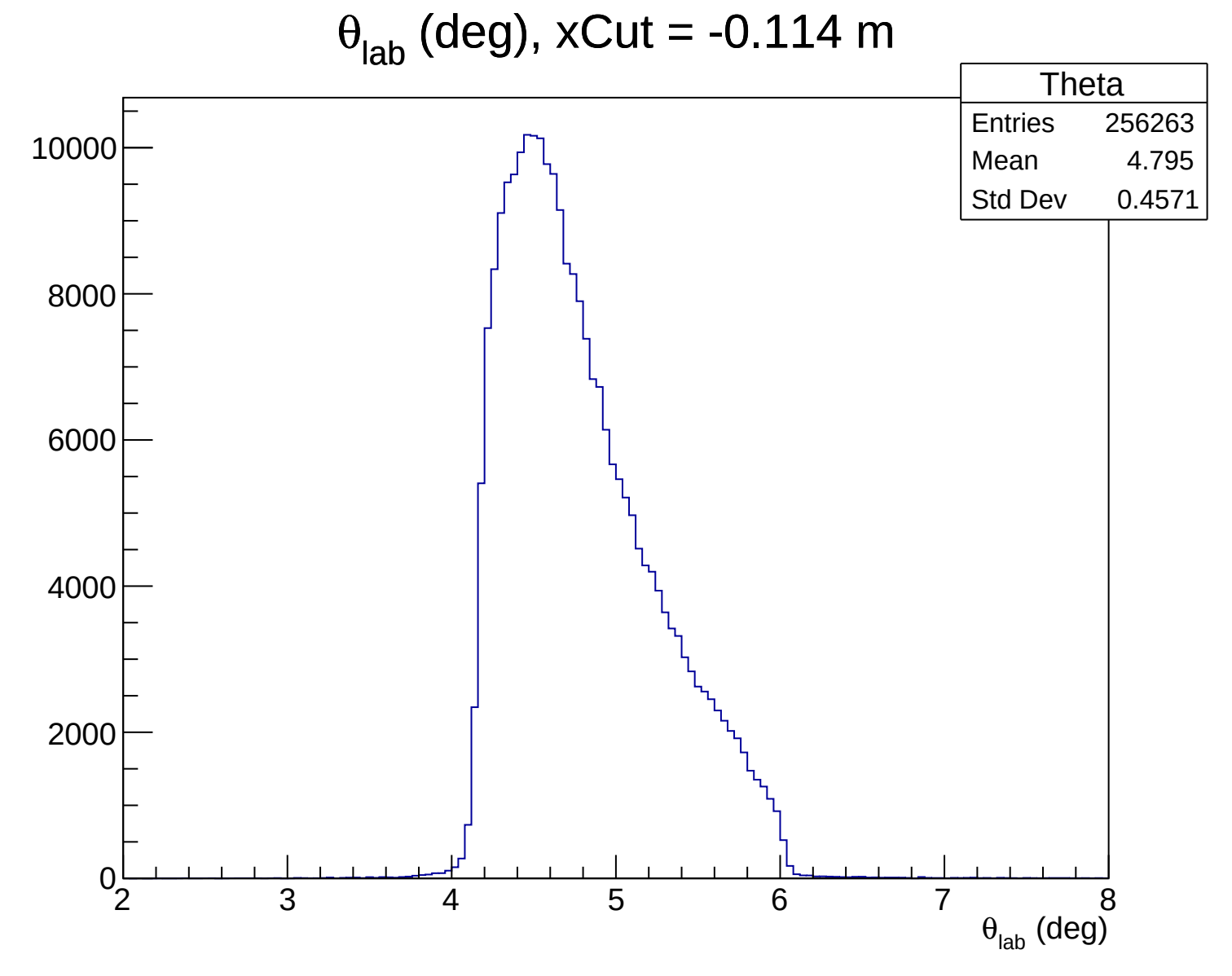

Sensitivity, xCut = -0.112 m
sens
Entries 254537
Mean 0.02231
Std Dev 0.003908
10000
8000
6000
4000
2000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

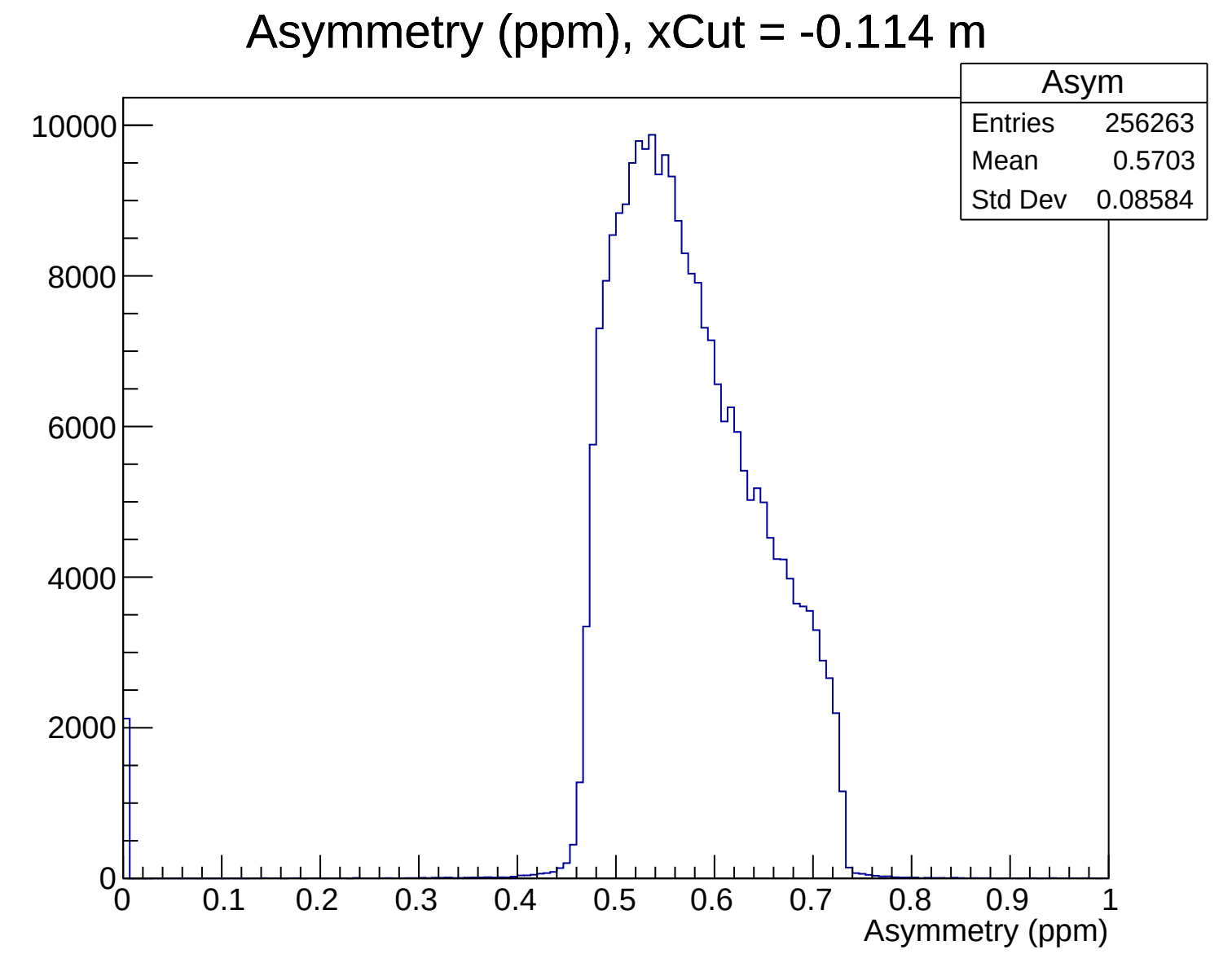

ADC raw (run21414, detZ = 1.3 m)
huq
Entries 640641
Mean 498.8
Std Dev 13.02
P.upQadcR
Ped. cut
ADC raw

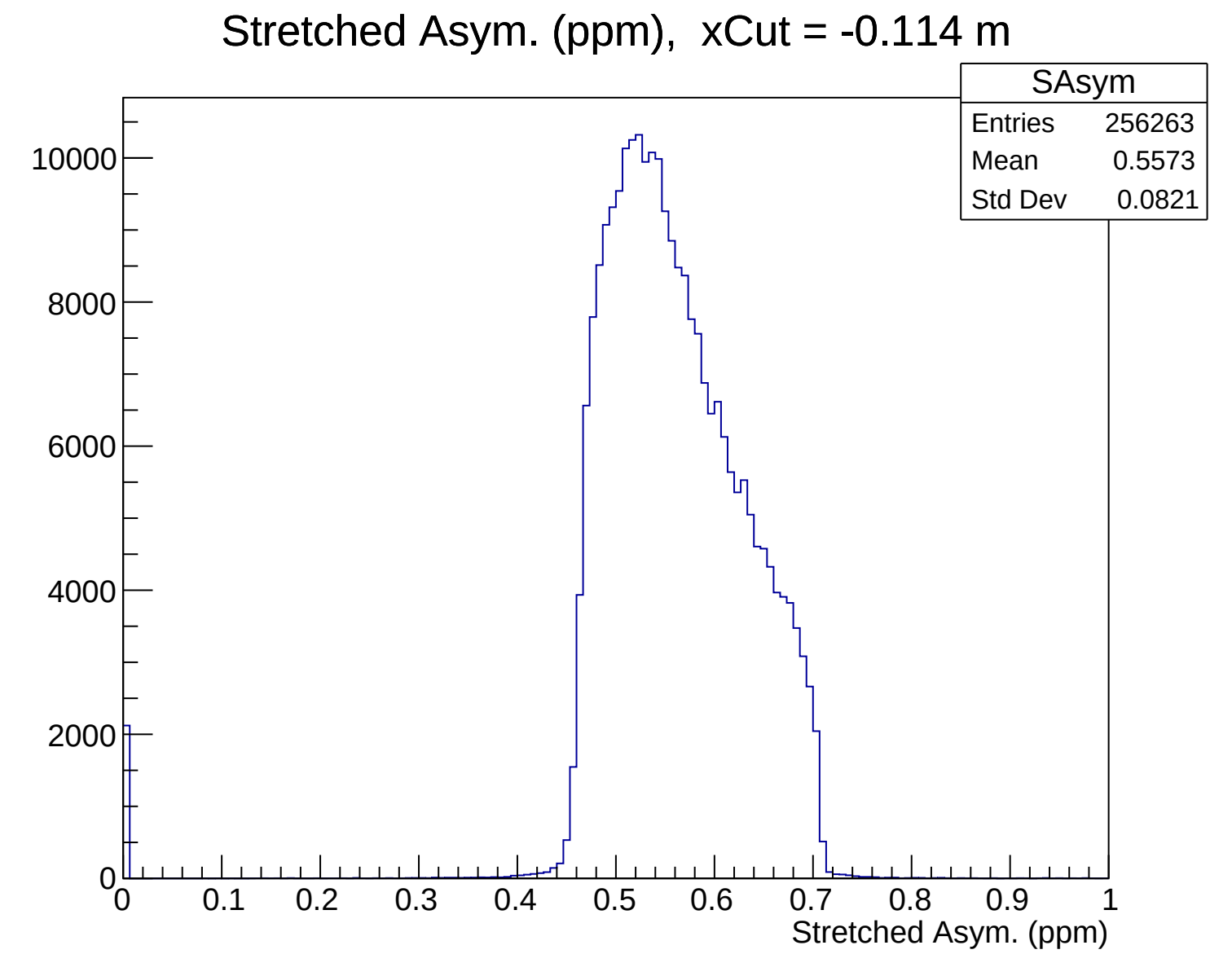

Projected y on detector plane
hy1
Entries 212476
Mean 0.002245
Std Dev 0.00776
All events
US accepted
US missed
R.tr.y[0]+1.3*R.tr.ph[0] (m)

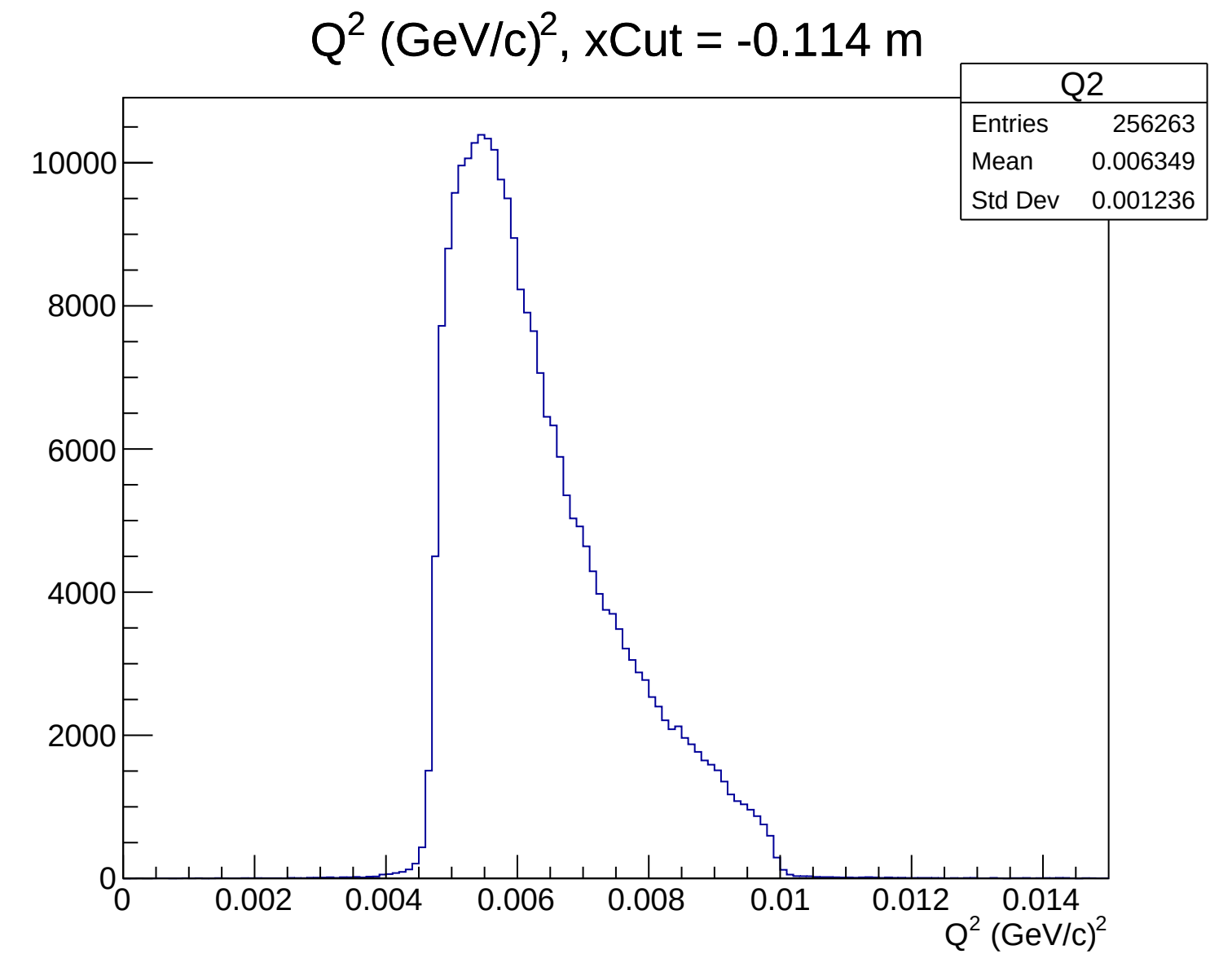

Projected x on detector plane
hx1
Entries 422074
Mean −0.056
Std Dev 0.03168
All events
US accepted
US missed
Peak = -0.0408
Edge = -0.0760
x_cut = -0.114
R.tr.x[0]+1.3*R.tr.th[0] (m)

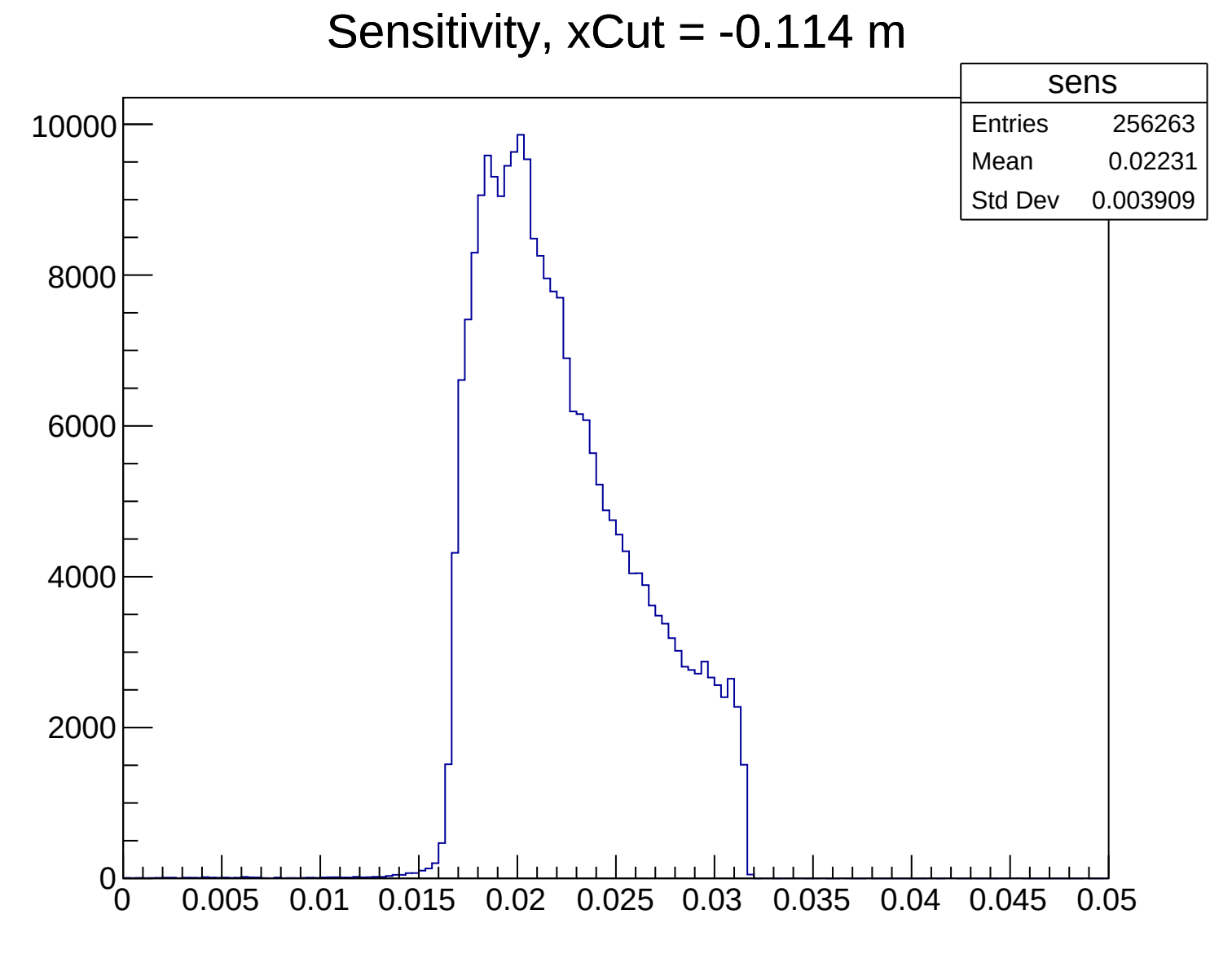

Projected x vs y w/ up_adc cut
h2d2
Entries 166322
Mean x 0.002218
Mean y −0.04118
Std Dev x 0.007792
Std Dev y 0.0182
Projected y (m)


θlab (deg), xCut = -0.114 m
Theta
Entries 256263
Mean 4.795
Std Dev 0.4571
10000
8000
6000
4000
2000
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), xCut = -0.114 m
Asym
Entries 256263
Mean 0.5703
Std Dev 0.08584
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), xCut = -0.114 m
SAsym
Entries 256263
Mean 0.5573
Std Dev 0.0821
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, xCut = -0.114 m
Q2
Entries 256263
Mean 0.006349
Std Dev 0.001236
10000
8000
6000
4000
2000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2


Sensitivity, xCut = -0.114 m
sens
Entries 256263
Mean 0.02231
Std Dev 0.003909
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