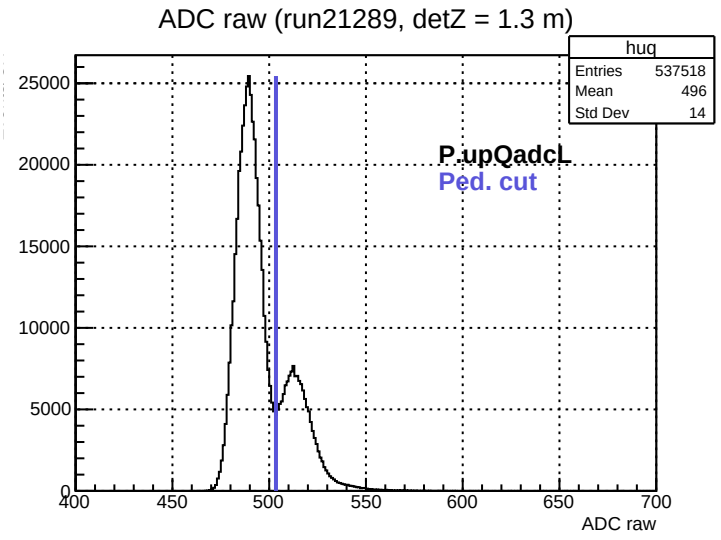
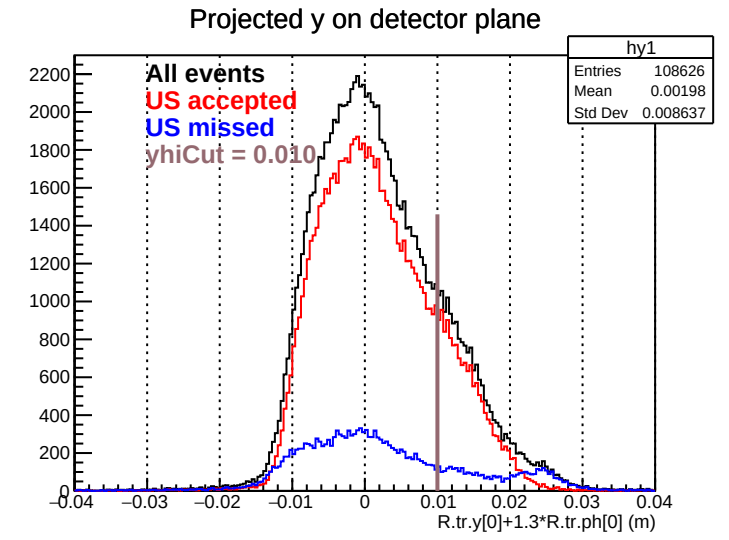
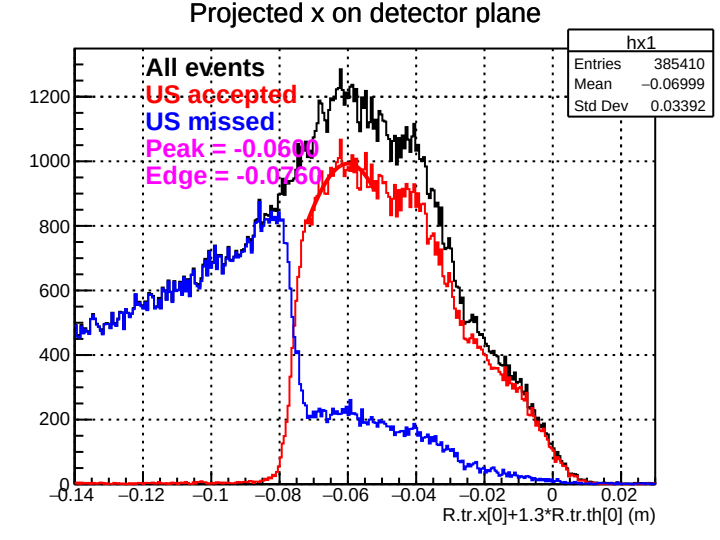
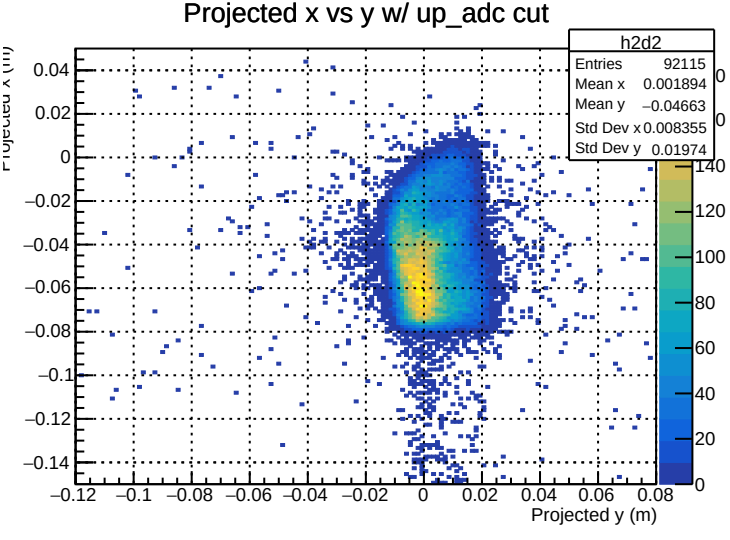
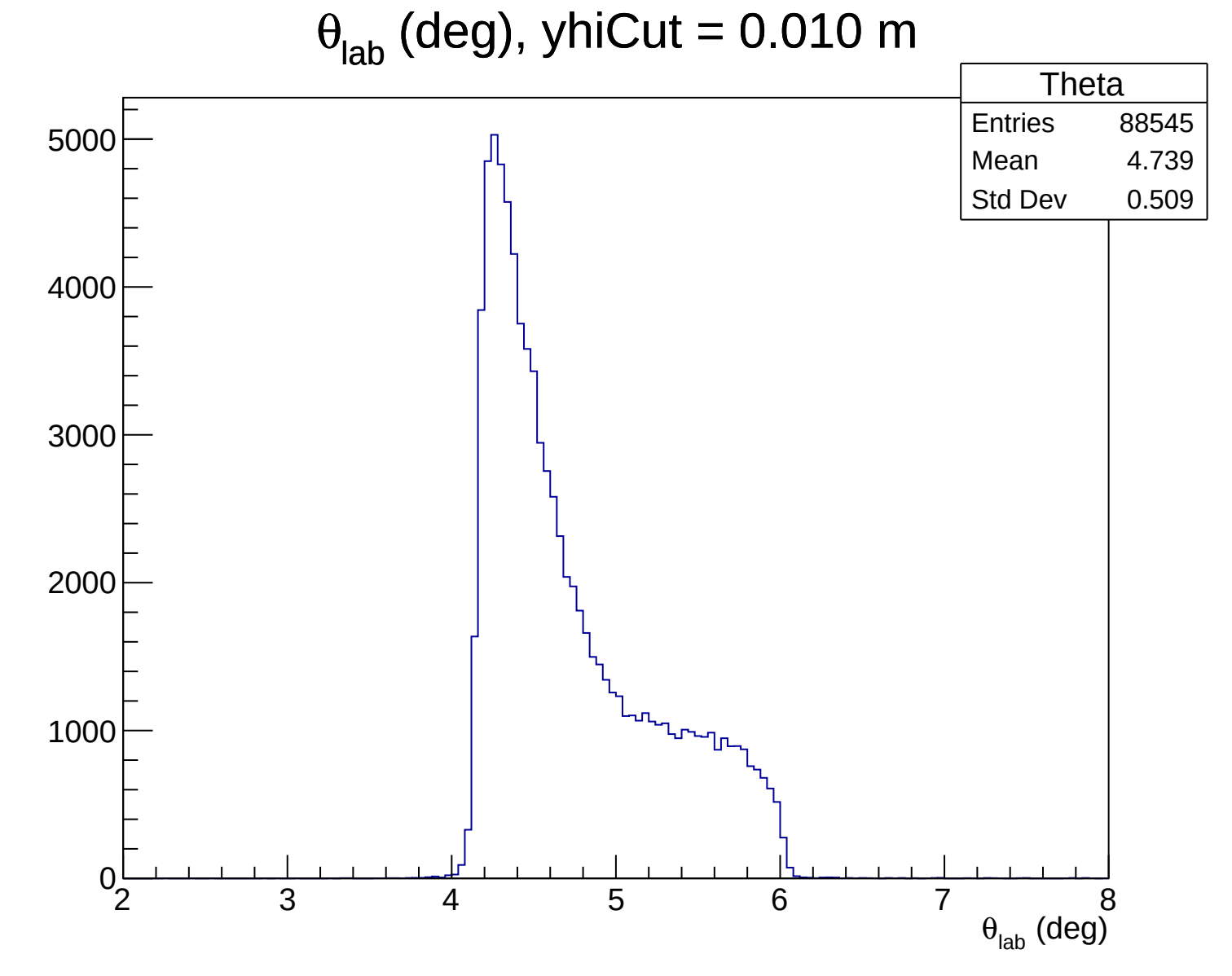
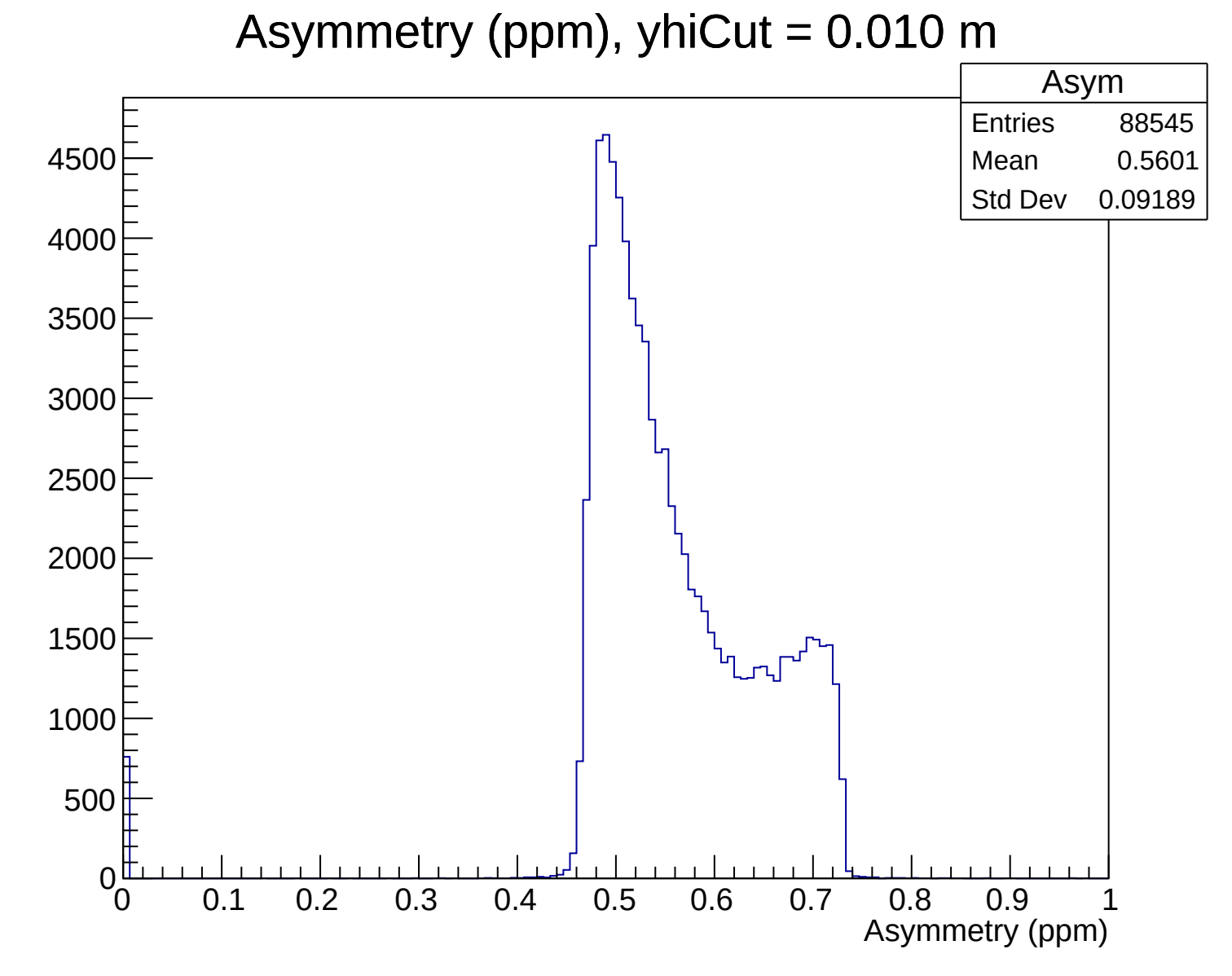

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

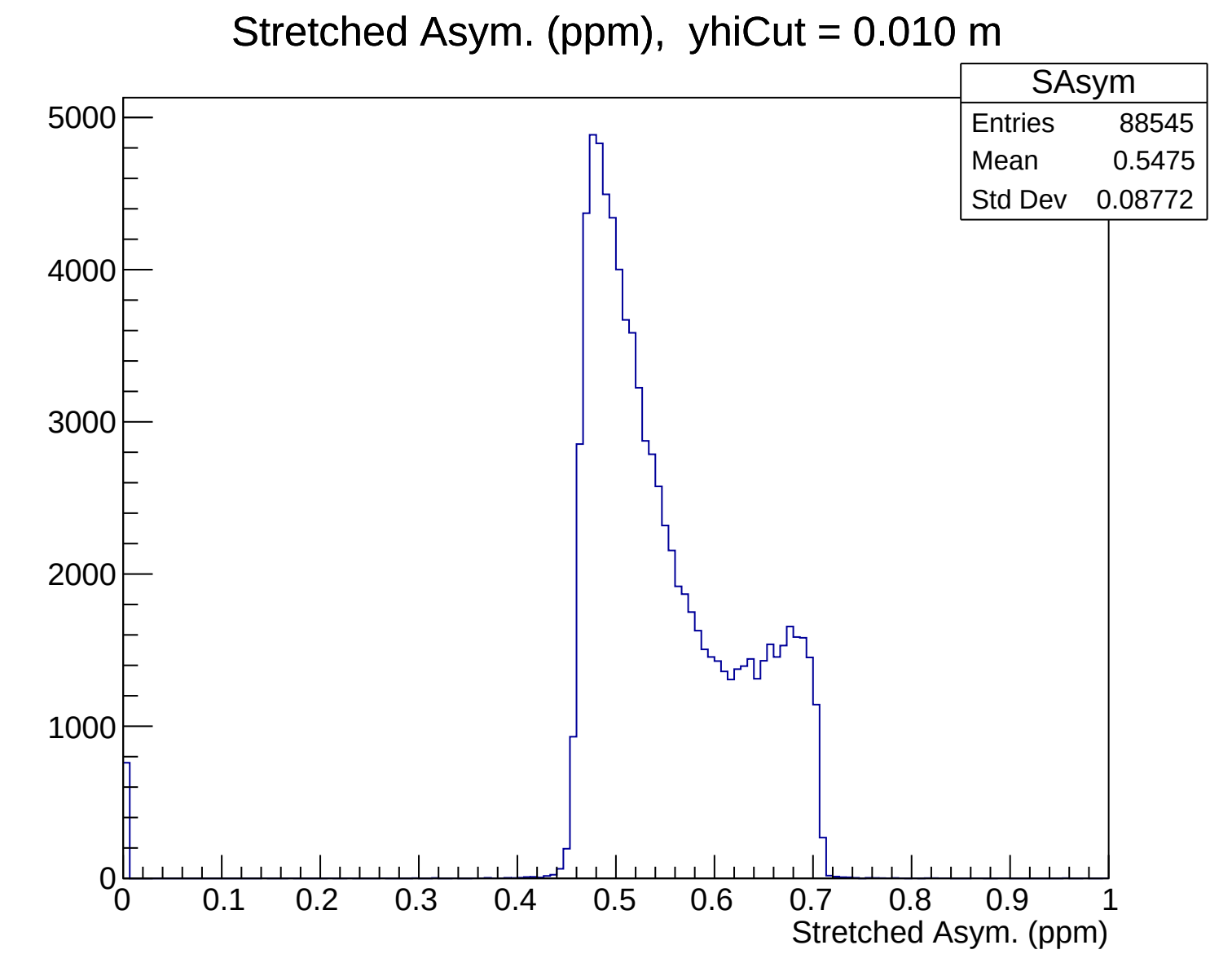

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.010
R.tr.y[0]+1.3*R.tr.ph[0] (m)

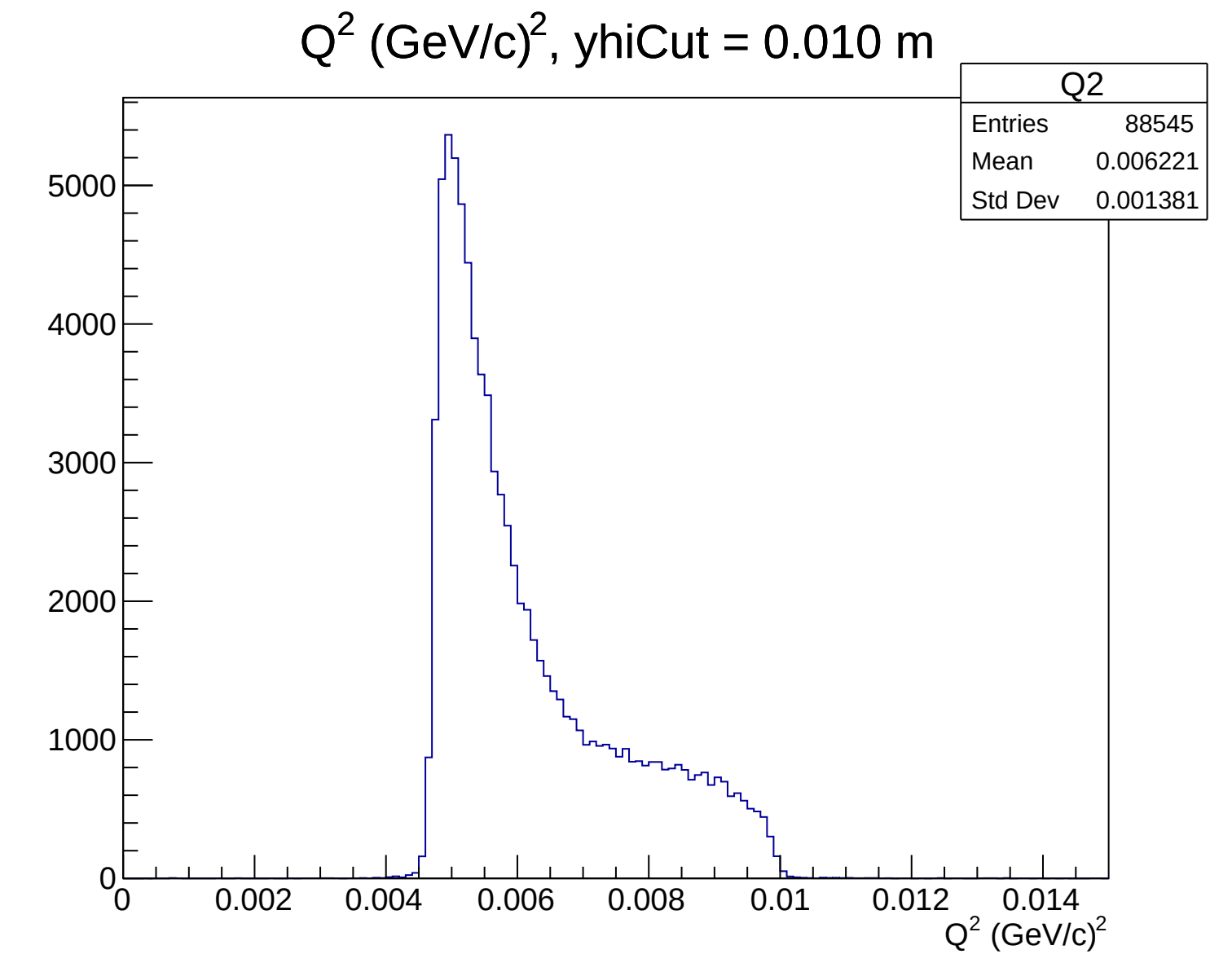

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

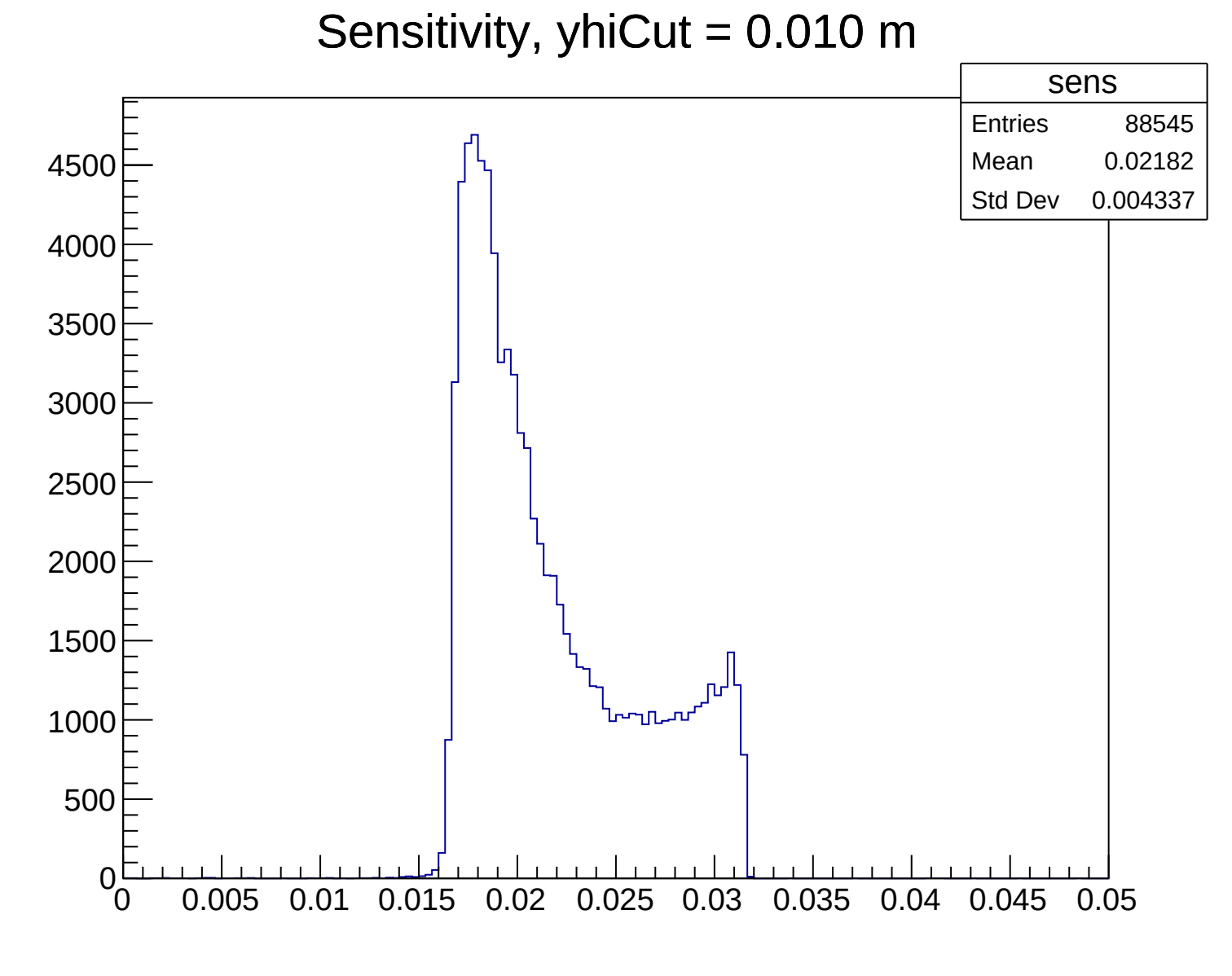

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

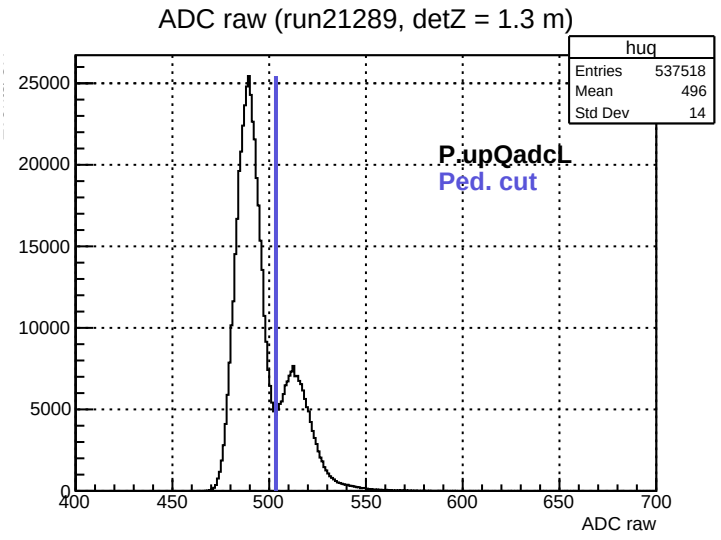

θlab (deg), yhiCut = 0.010 m
Theta
Entries 88545
Mean 4.739
Std Dev 0.509
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

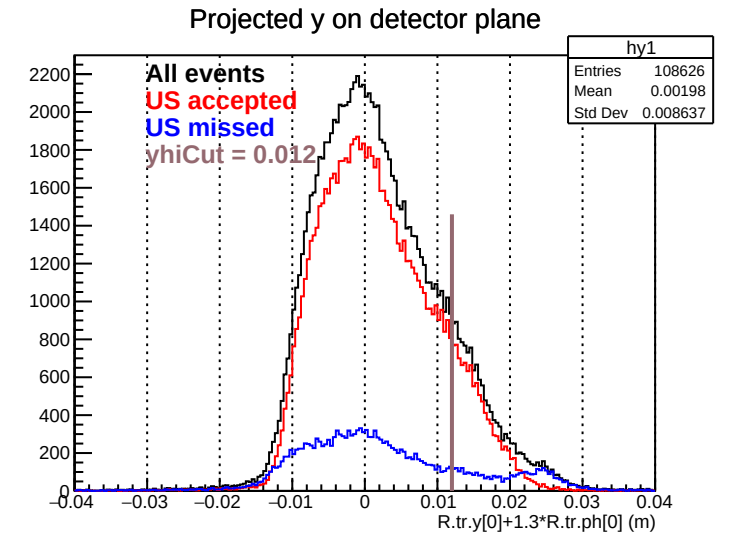

Asymmetry (ppm), yhiCut = 0.010 m
Asym
Entries 88545
Mean 0.5601
Std Dev 0.09189
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

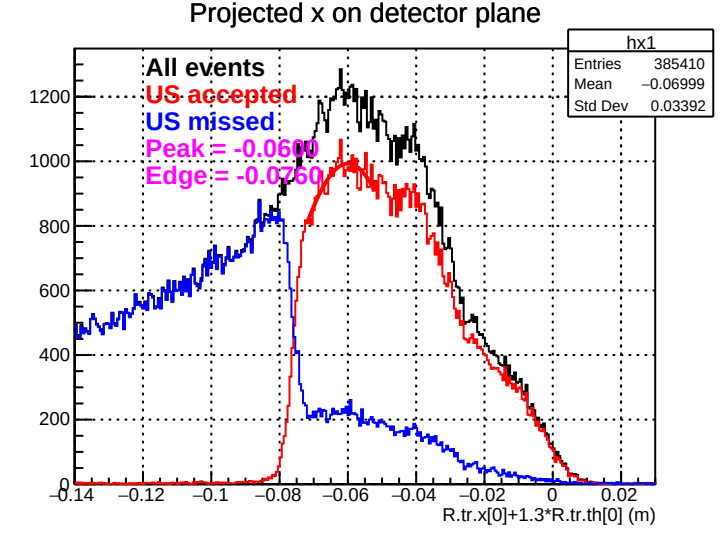

Stretched Asym. (ppm), yhiCut = 0.010 m
SAsym
Entries 88545
Mean 0.5475
Std Dev 0.08772
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

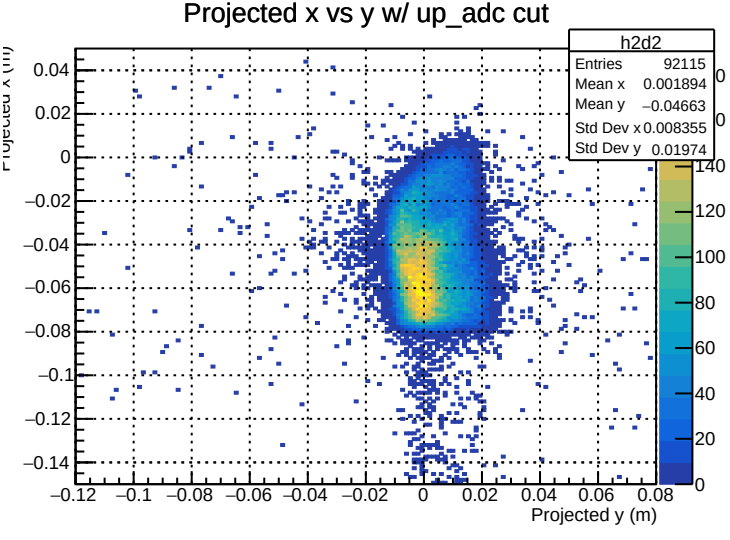

Q^2 (GeV/c)^2, yhiCut = 0.010 m
Q2
Entries 88545
Mean 0.006221
Std Dev 0.001381
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

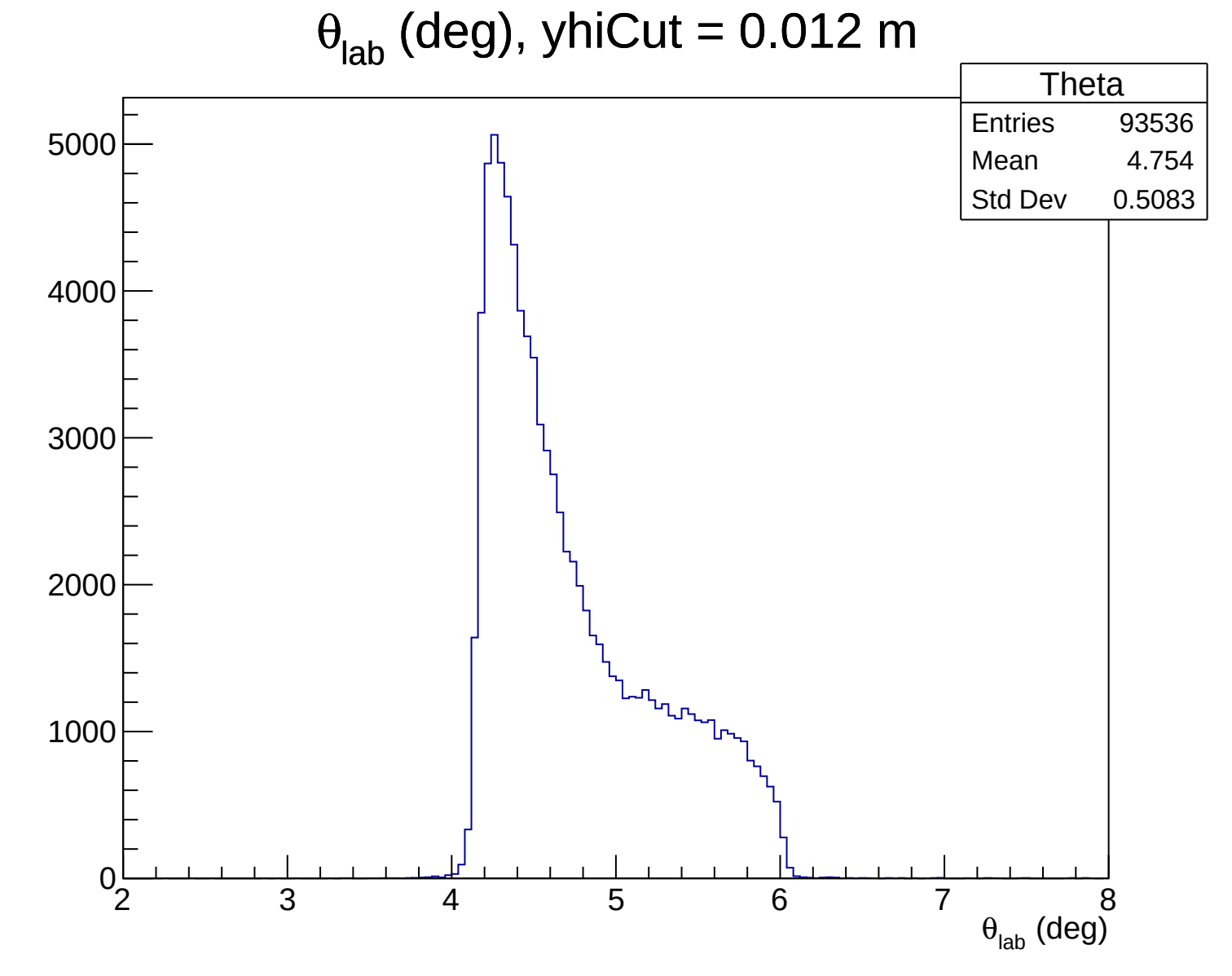

Sensitivity, yhiCut = 0.010 m
sens
Entries 88545
Mean 0.02182
Std Dev 0.004337
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

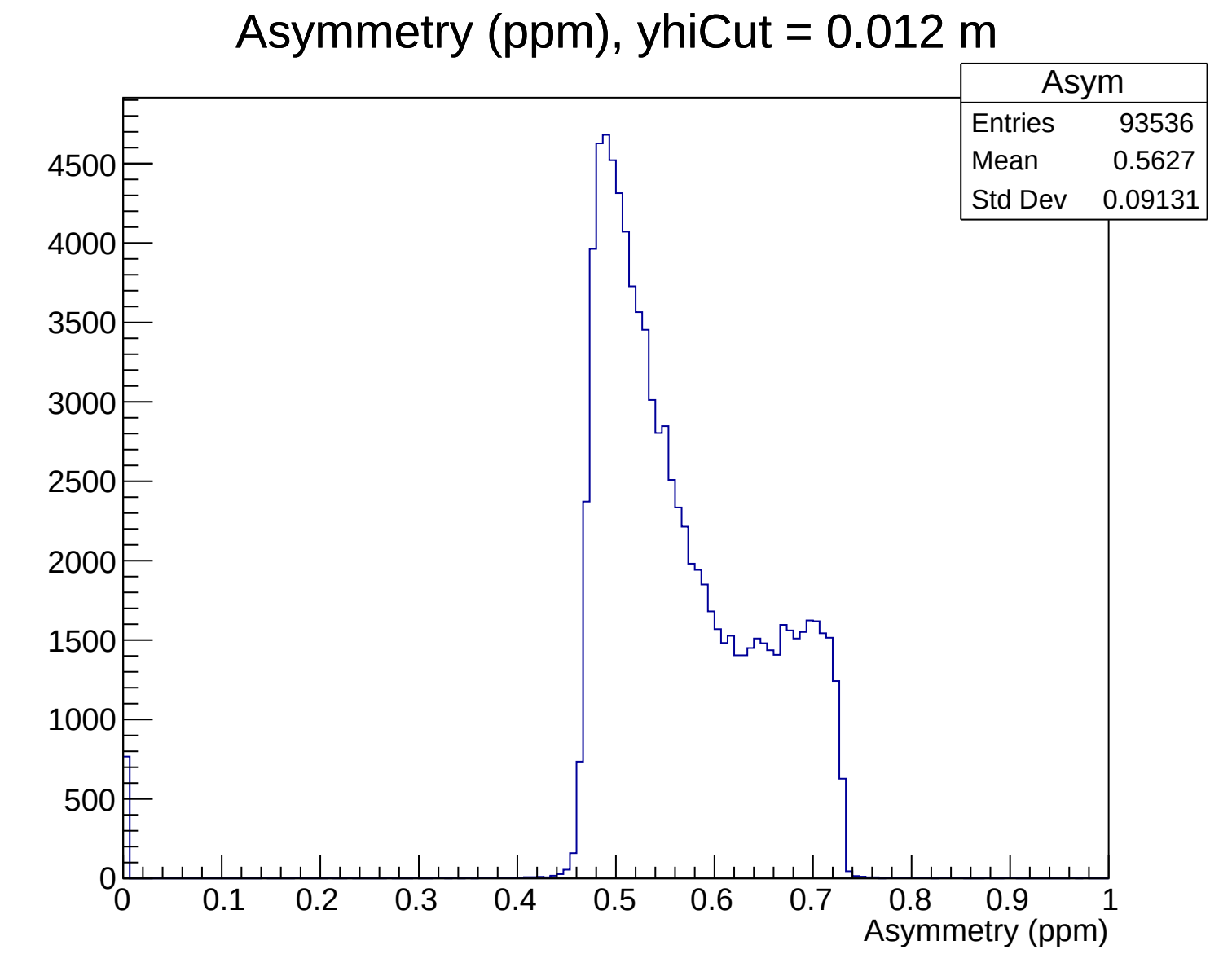

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

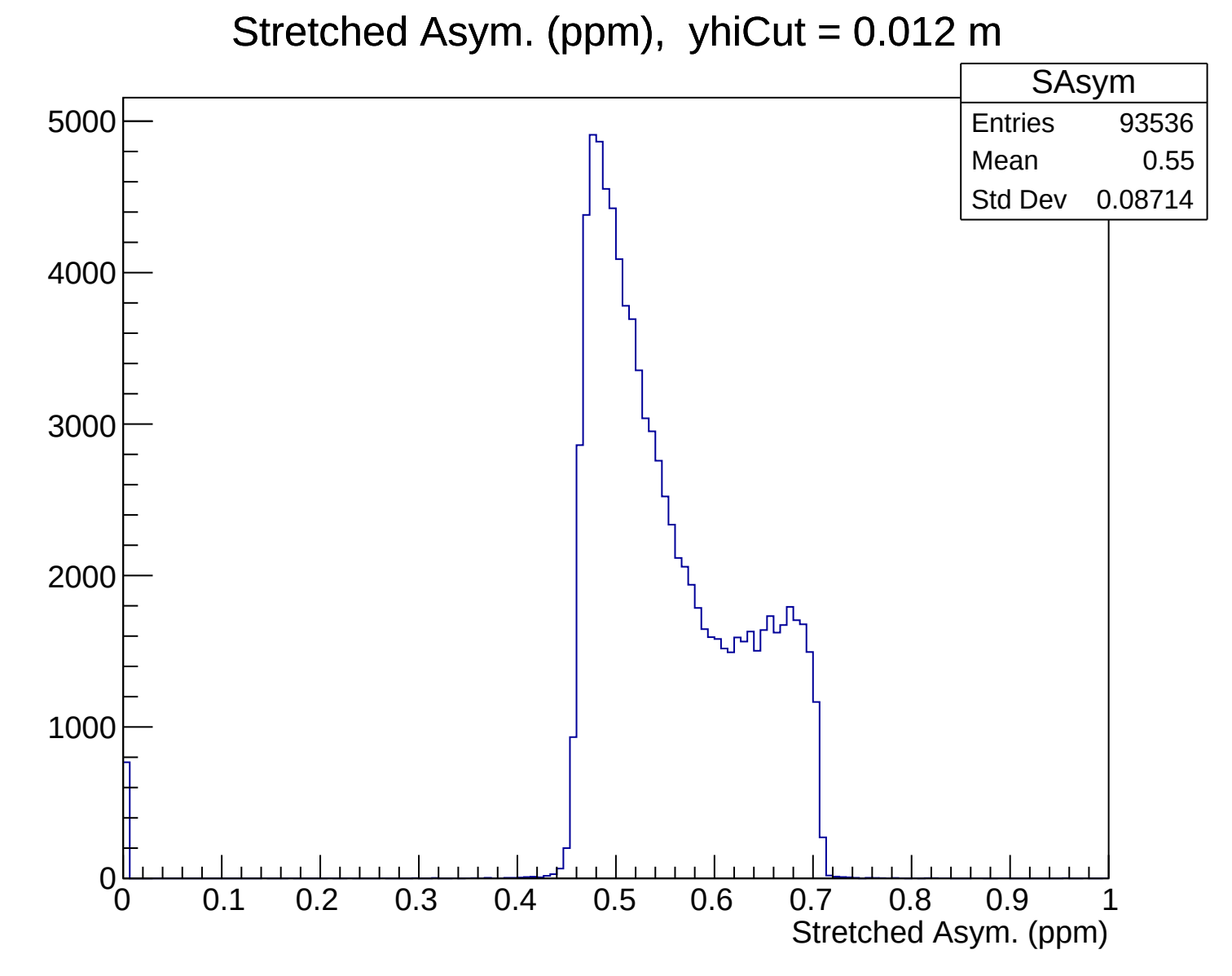

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.012
R.tr.y[0]+1.3*R.tr.ph[0] (m)

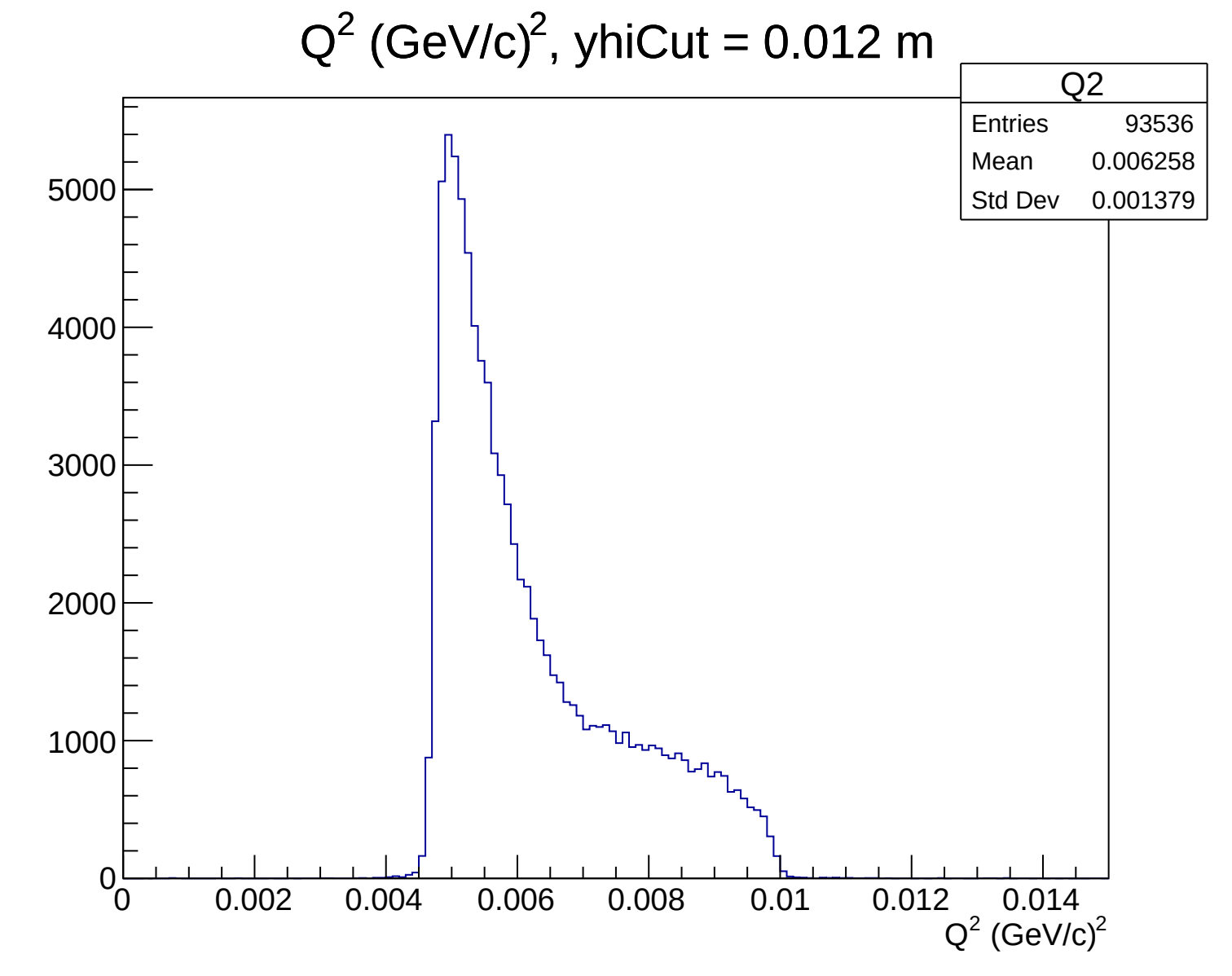

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

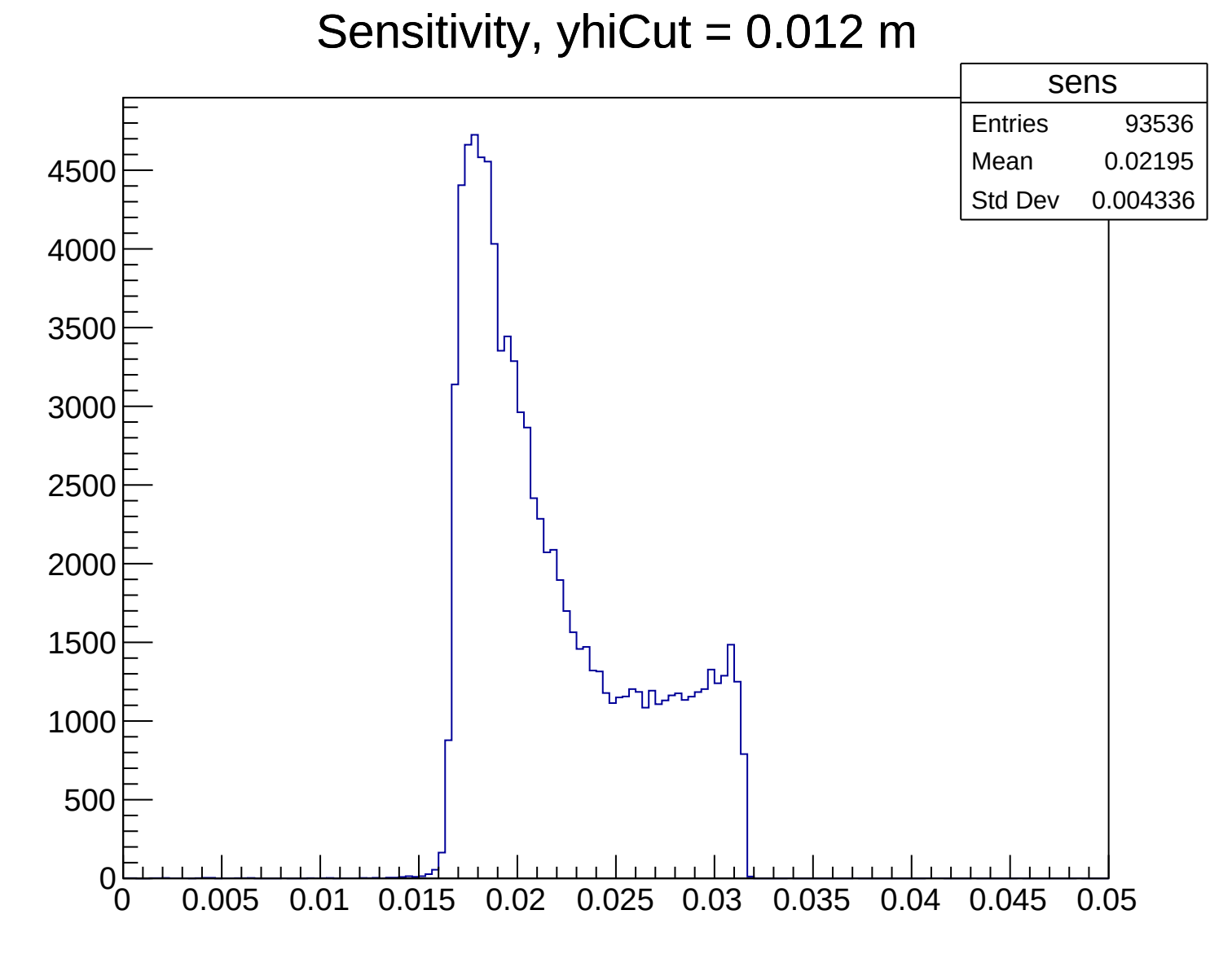

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

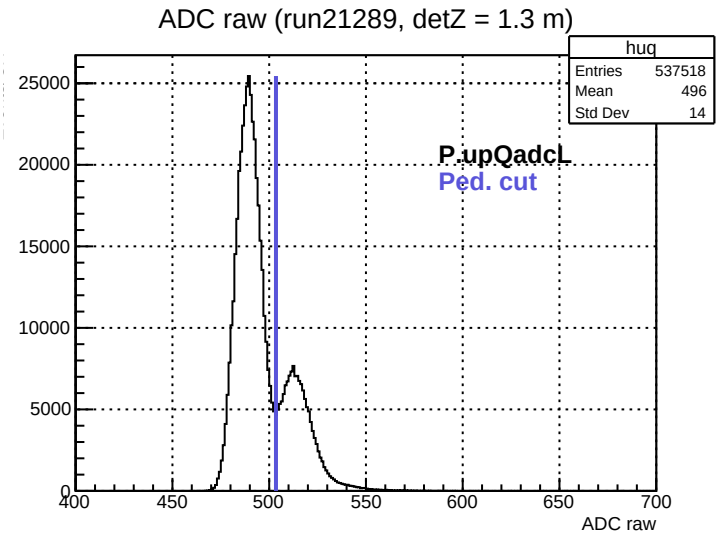

θlab (deg), yhiCut = 0.012 m
Theta
Entries 93536
Mean 4.754
Std Dev 0.5083
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

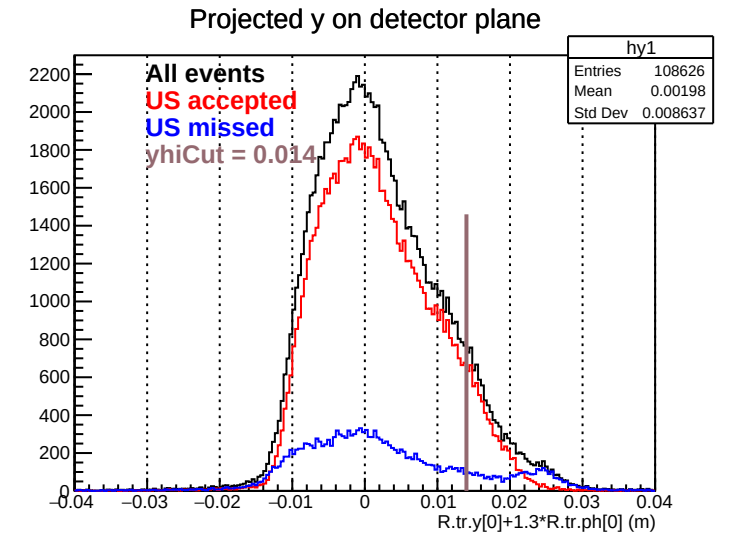

Asymmetry (ppm), yhiCut = 0.012 m
Asym
Entries 93536
Mean 0.5627
Std Dev 0.09131
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

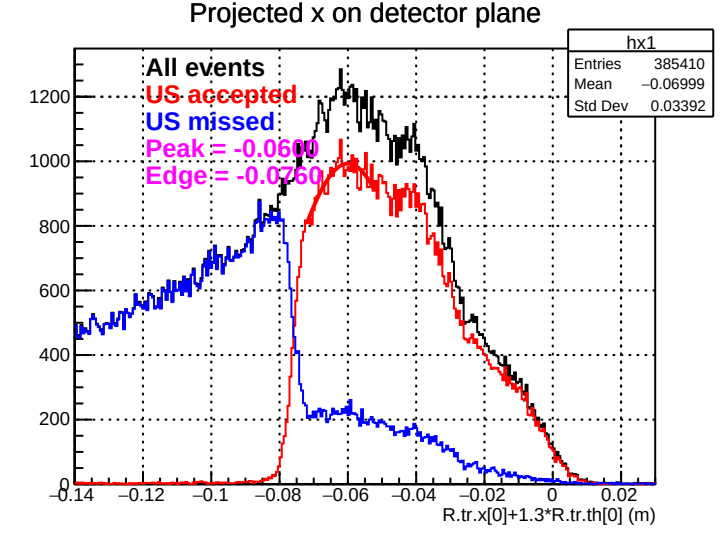

Stretched Asym. (ppm), yhiCut = 0.012 m
SAsym
Entries 93536
Mean 0.55
Std Dev 0.08714
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

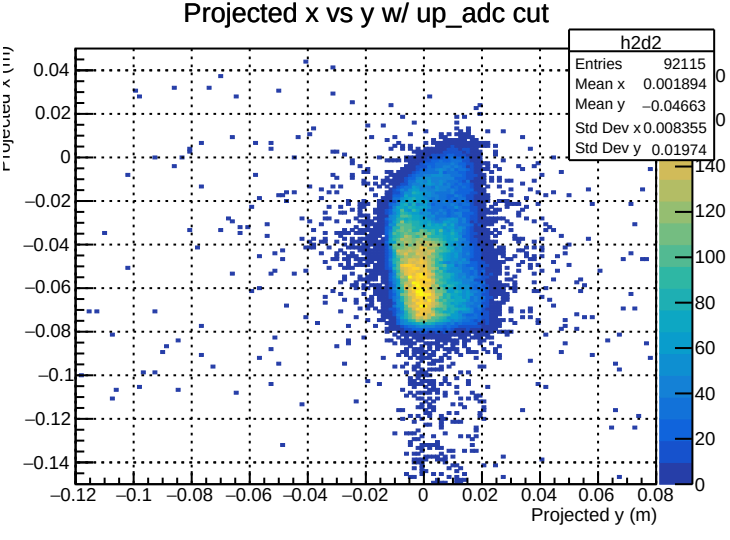

Q^2 (GeV/c)^2, yhiCut = 0.012 m
Q2
Entries 93536
Mean 0.006258
Std Dev 0.001379
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

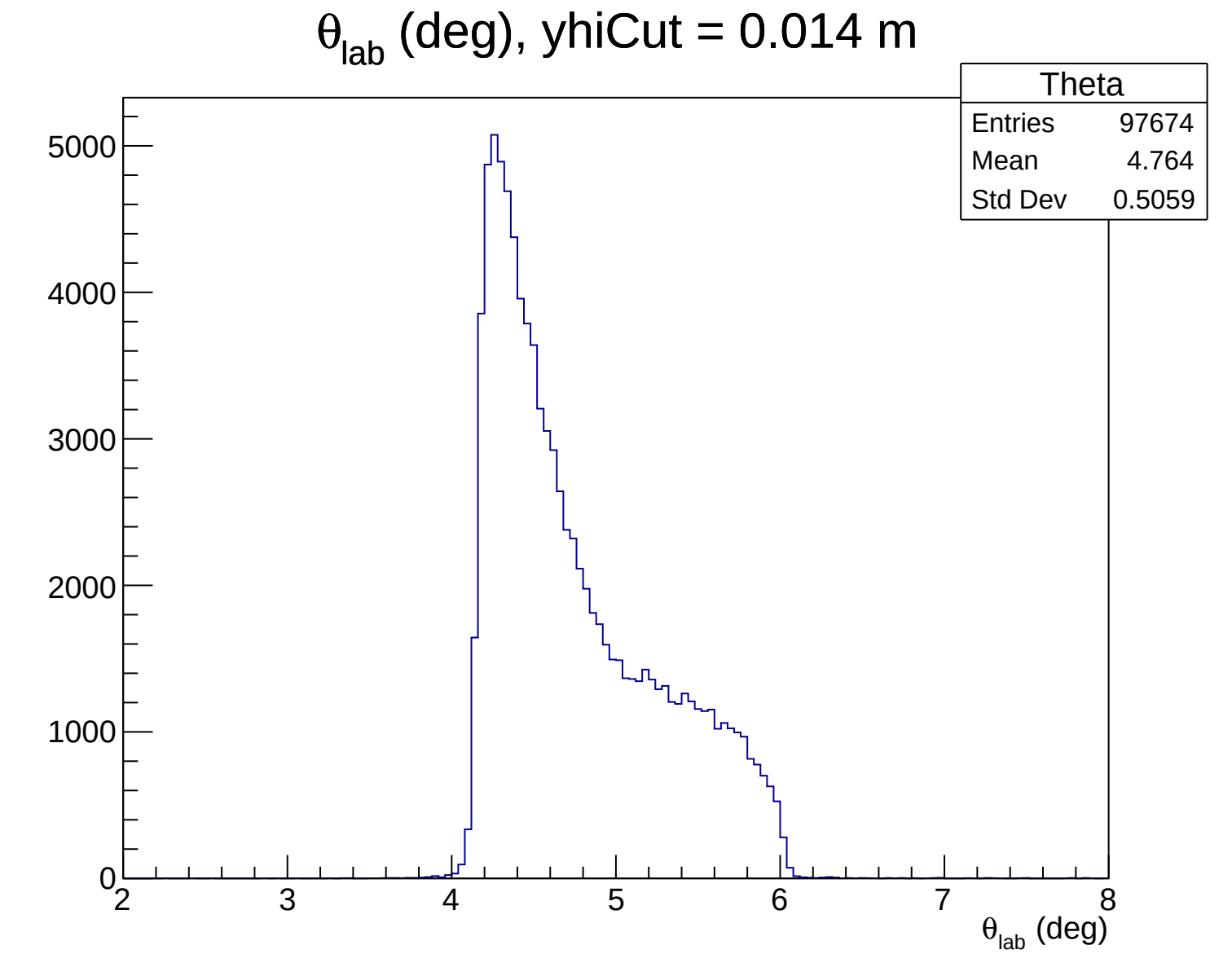

Sensitivity, yhiCut = 0.012 m
sens
Entries 93536
Mean 0.02195
Std Dev 0.004336
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

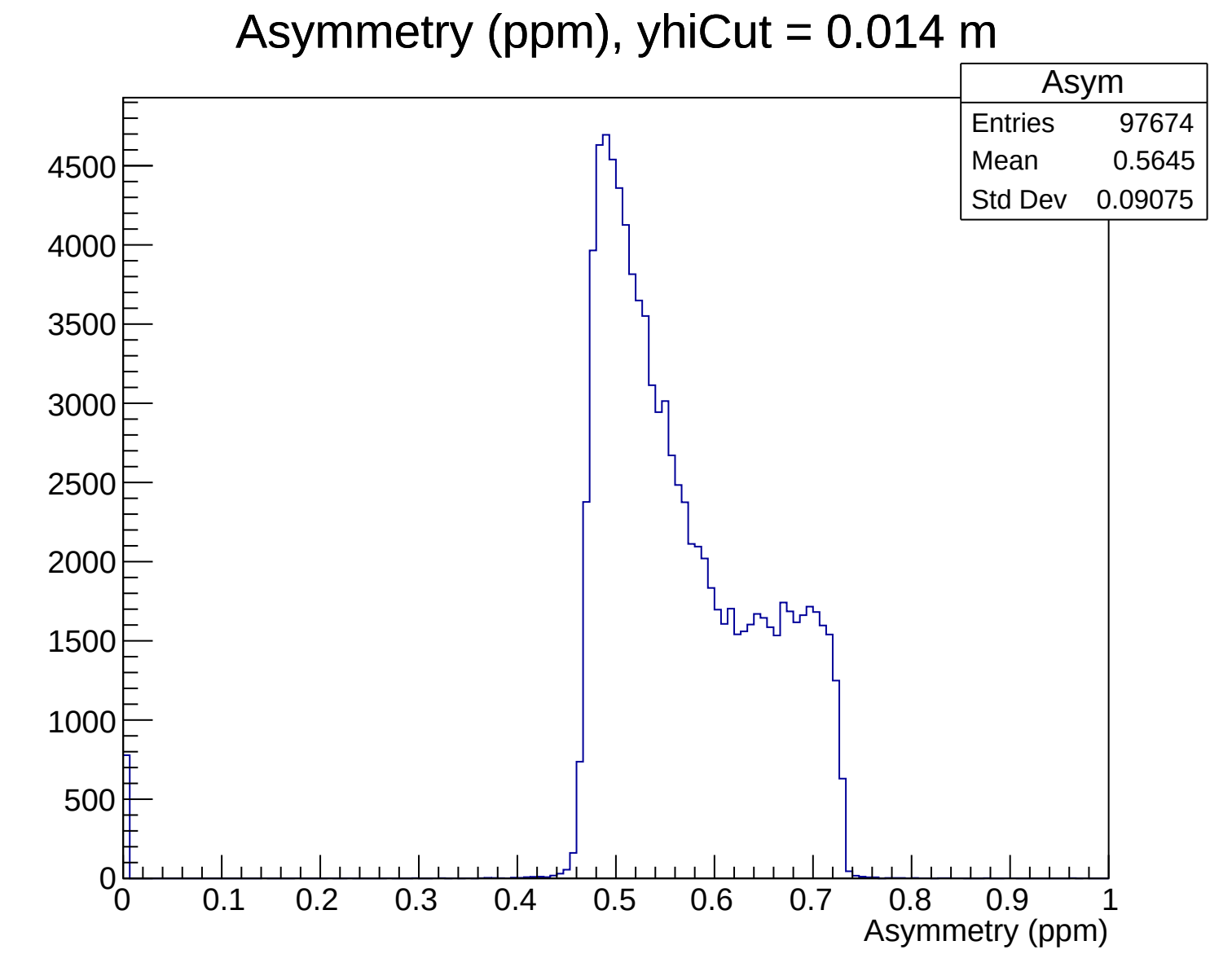

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

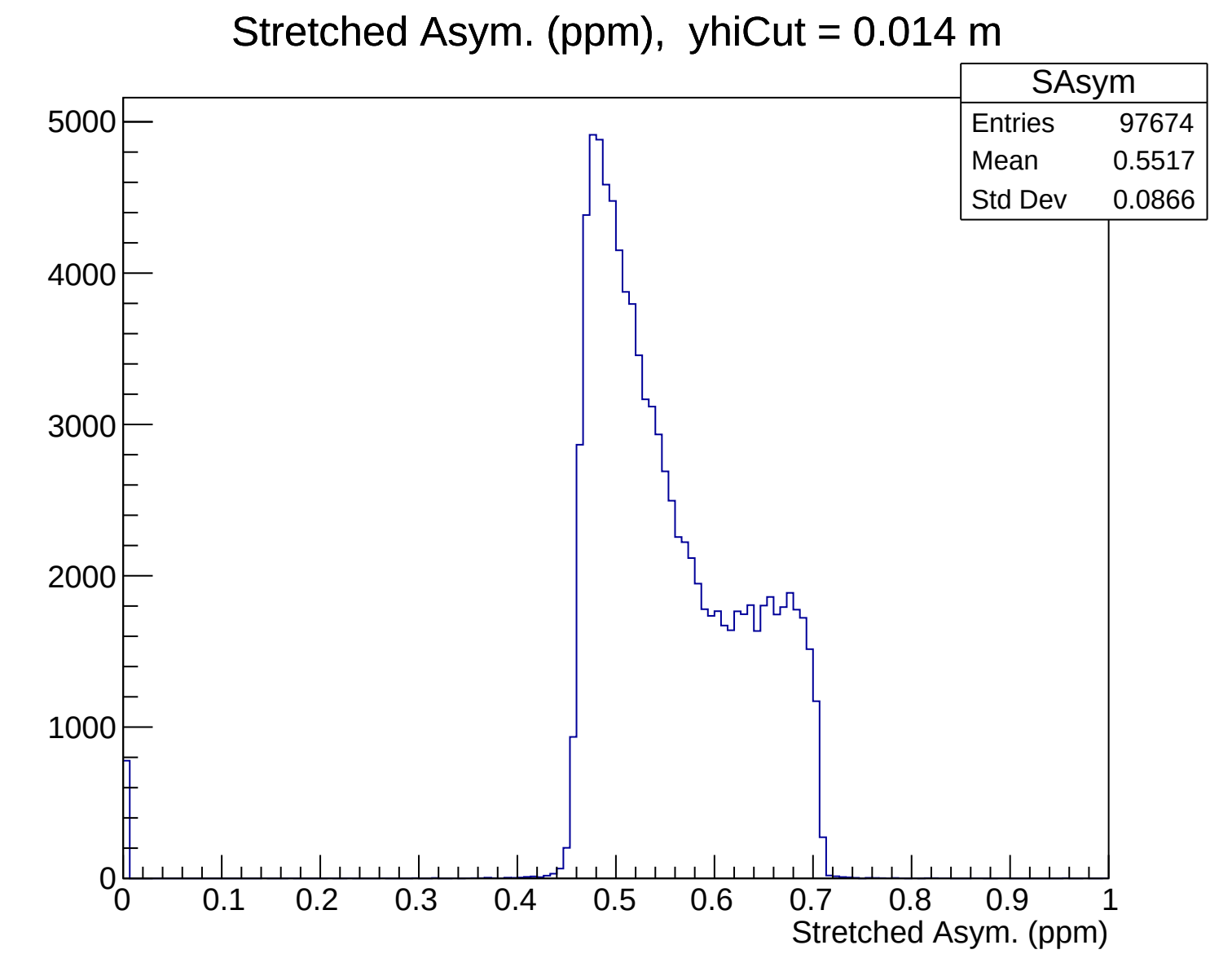

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.014
R.tr.y[0]+1.3*R.tr.ph[0] (m)

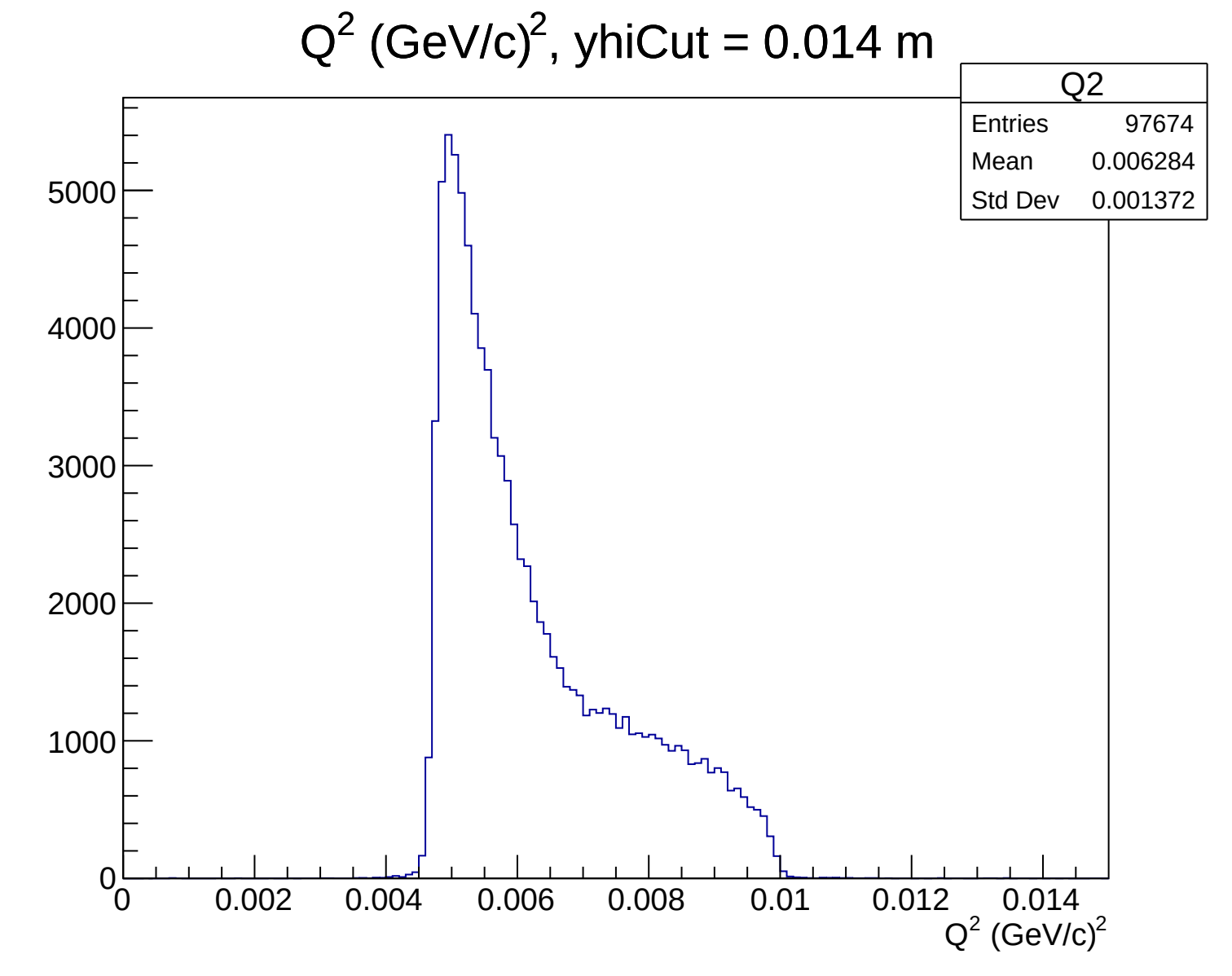

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

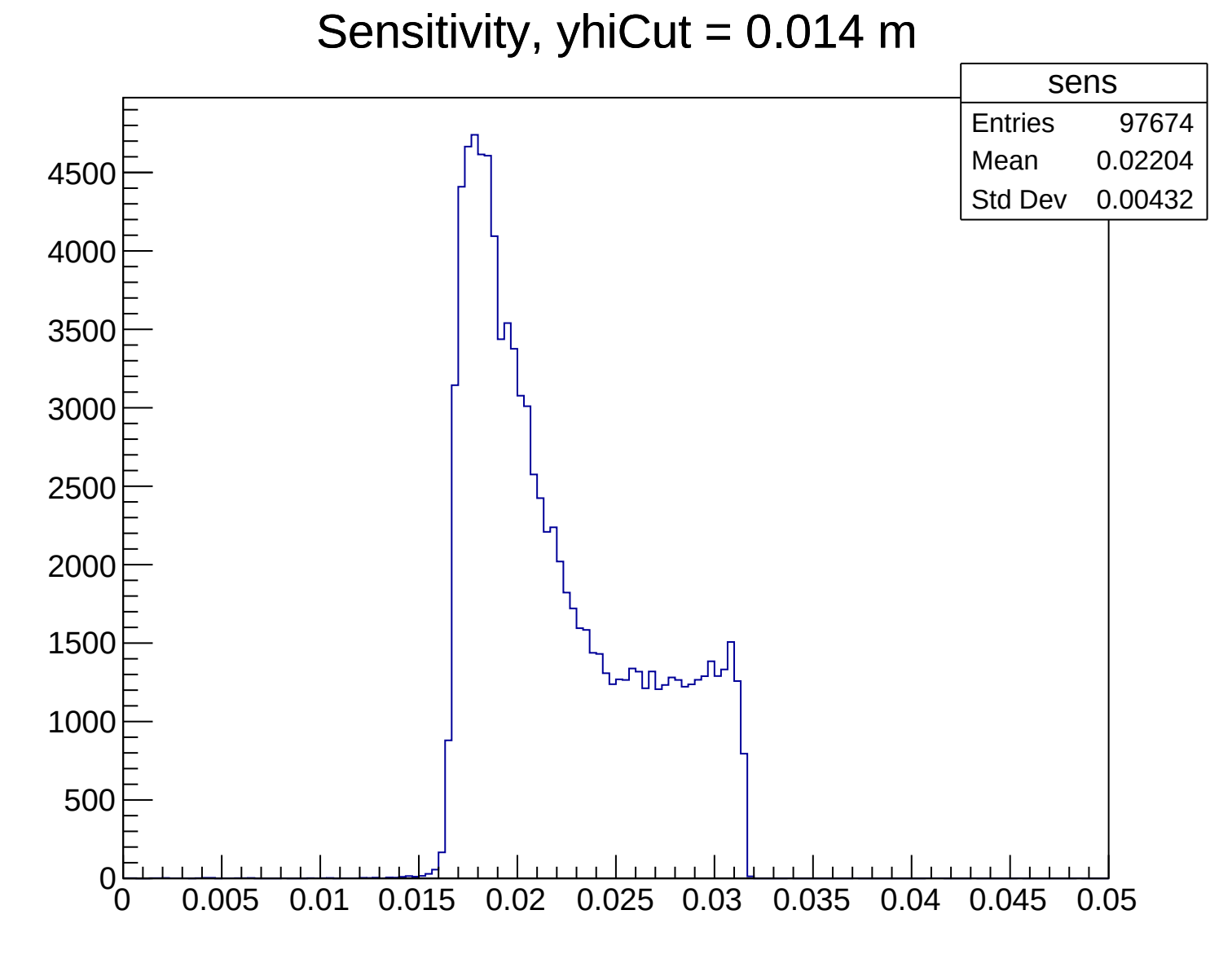

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

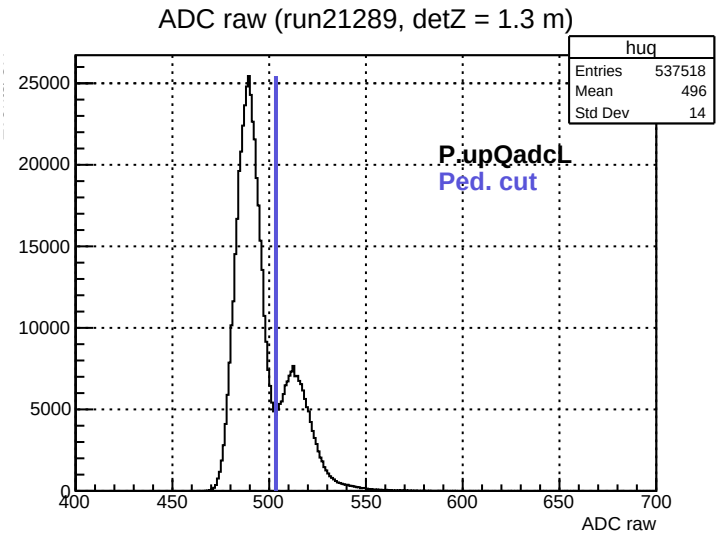

θlab (deg), yhiCut = 0.014 m
Theta
Entries 97674
Mean 4.764
Std Dev 0.5059
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

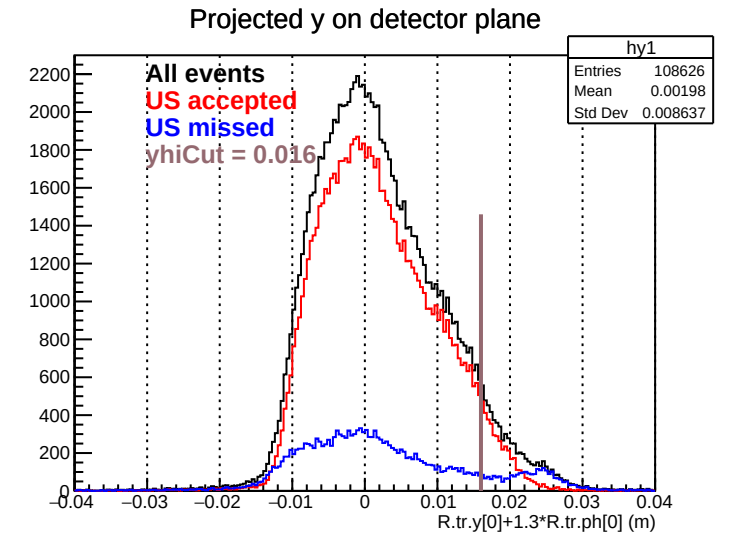

Asymmetry (ppm), yhiCut = 0.014 m
Asym
Entries 97674
Mean 0.5645
Std Dev 0.09075
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

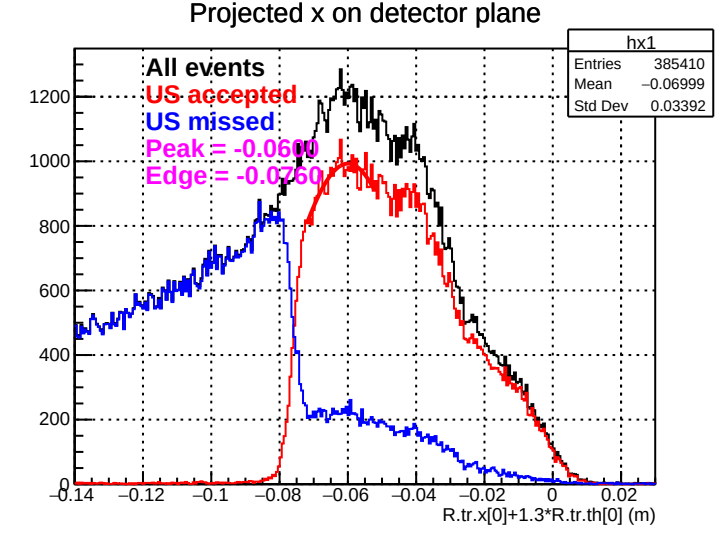

Stretched Asym. (ppm), yhiCut = 0.014 m
SAsym
Entries 97674
Mean 0.5517
Std Dev 0.0866
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

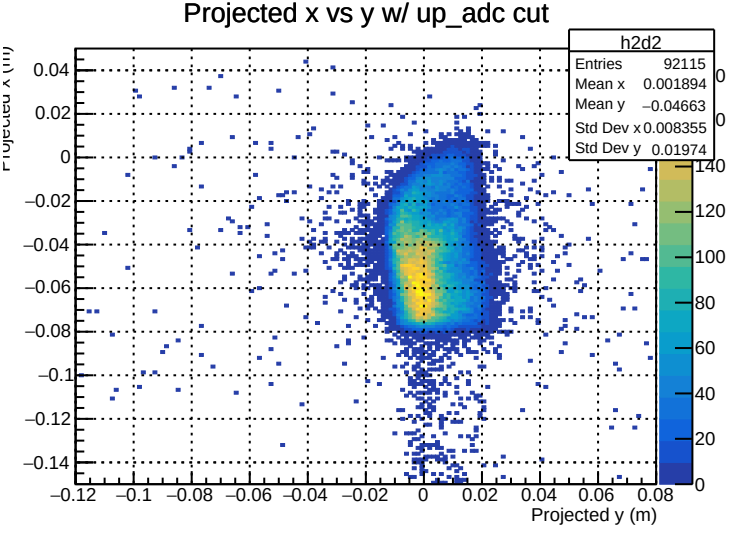

Q^2 (GeV/c)^2, yhiCut = 0.014 m
Q2
Entries 97674
Mean 0.006284
Std Dev 0.001372
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

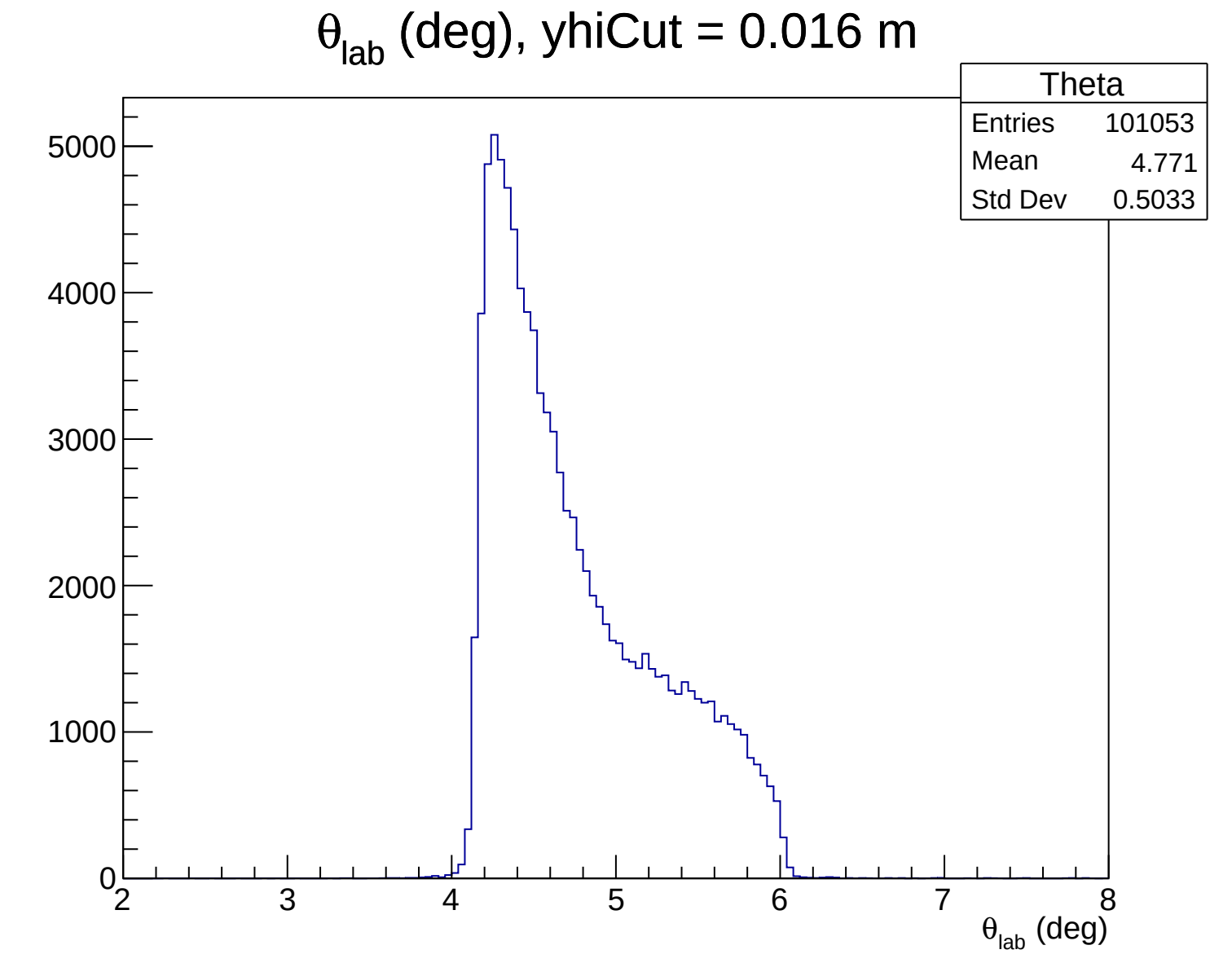

Sensitivity, yhiCut = 0.014 m
sens
Entries 97674
Mean 0.02204
Std Dev 0.00432
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

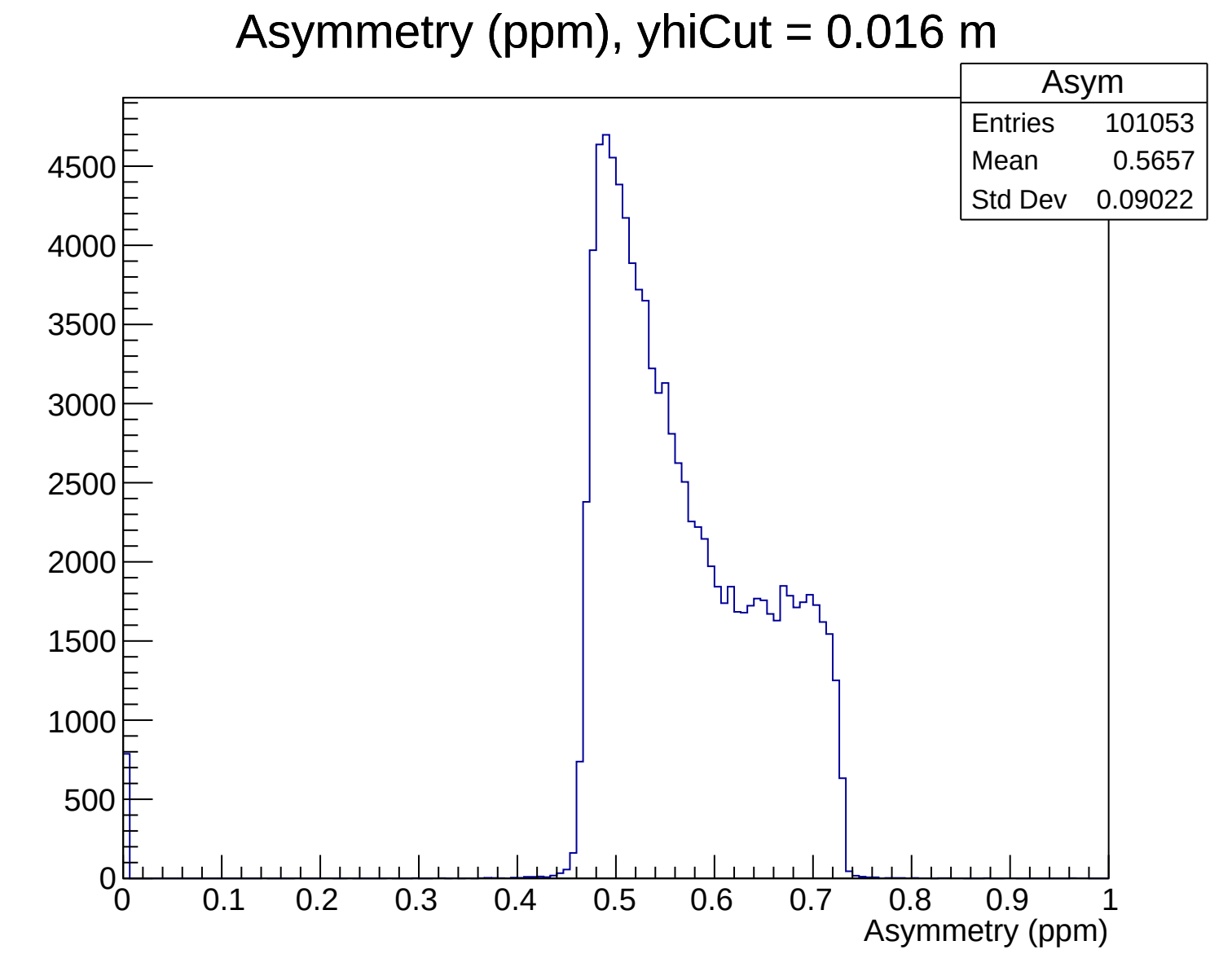

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

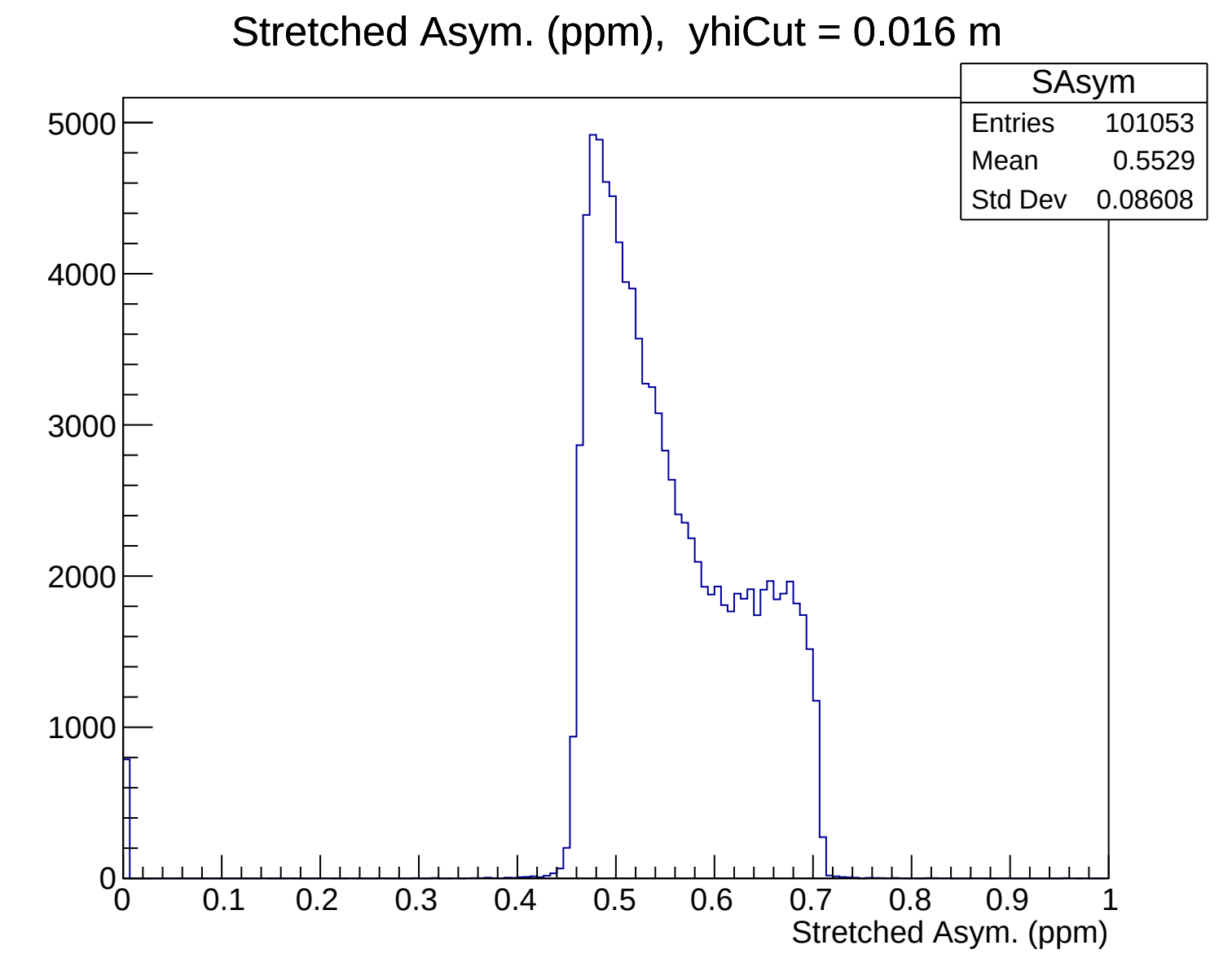

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.016
R.tr.y[0]+1.3*R.tr.ph[0] (m)

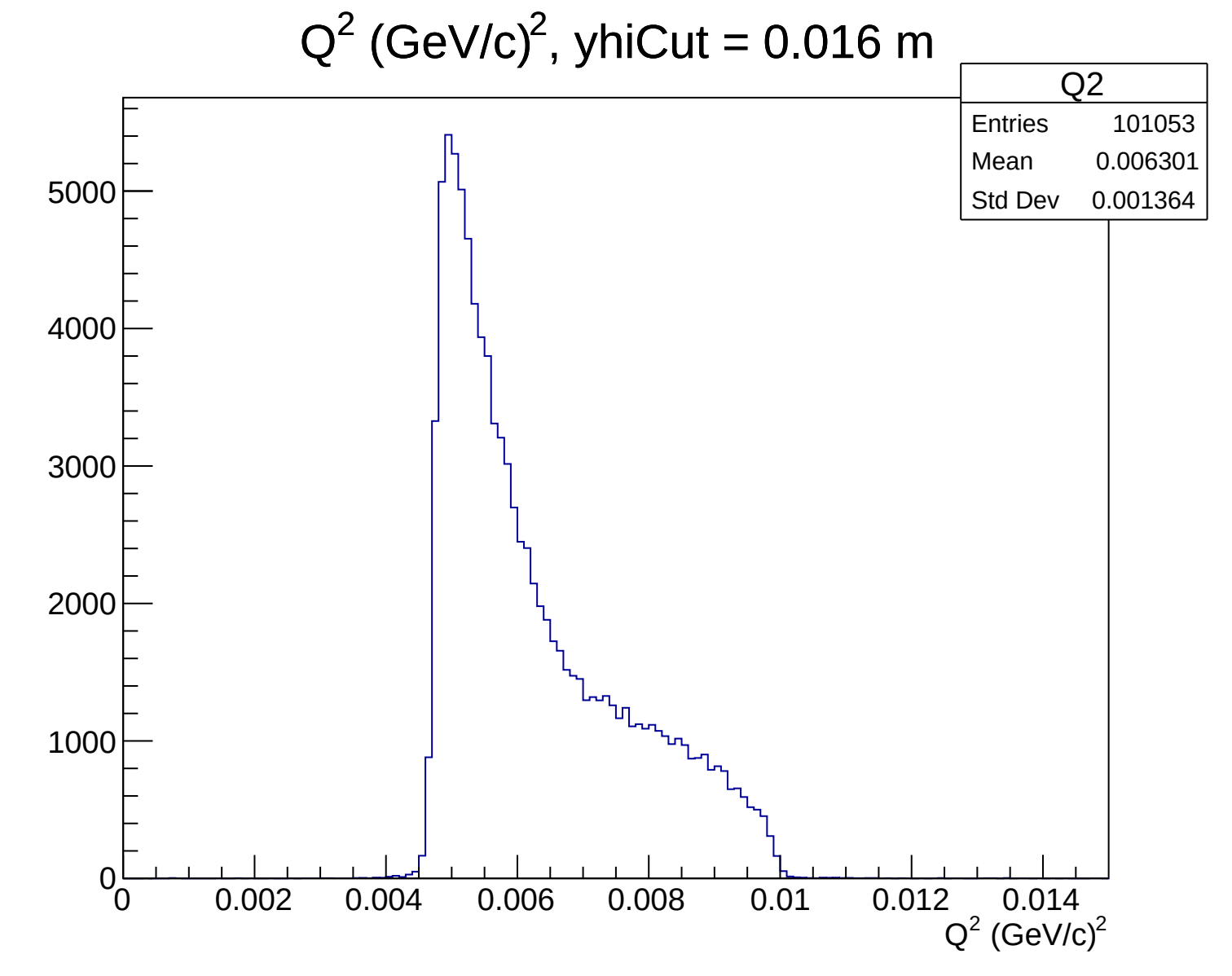

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

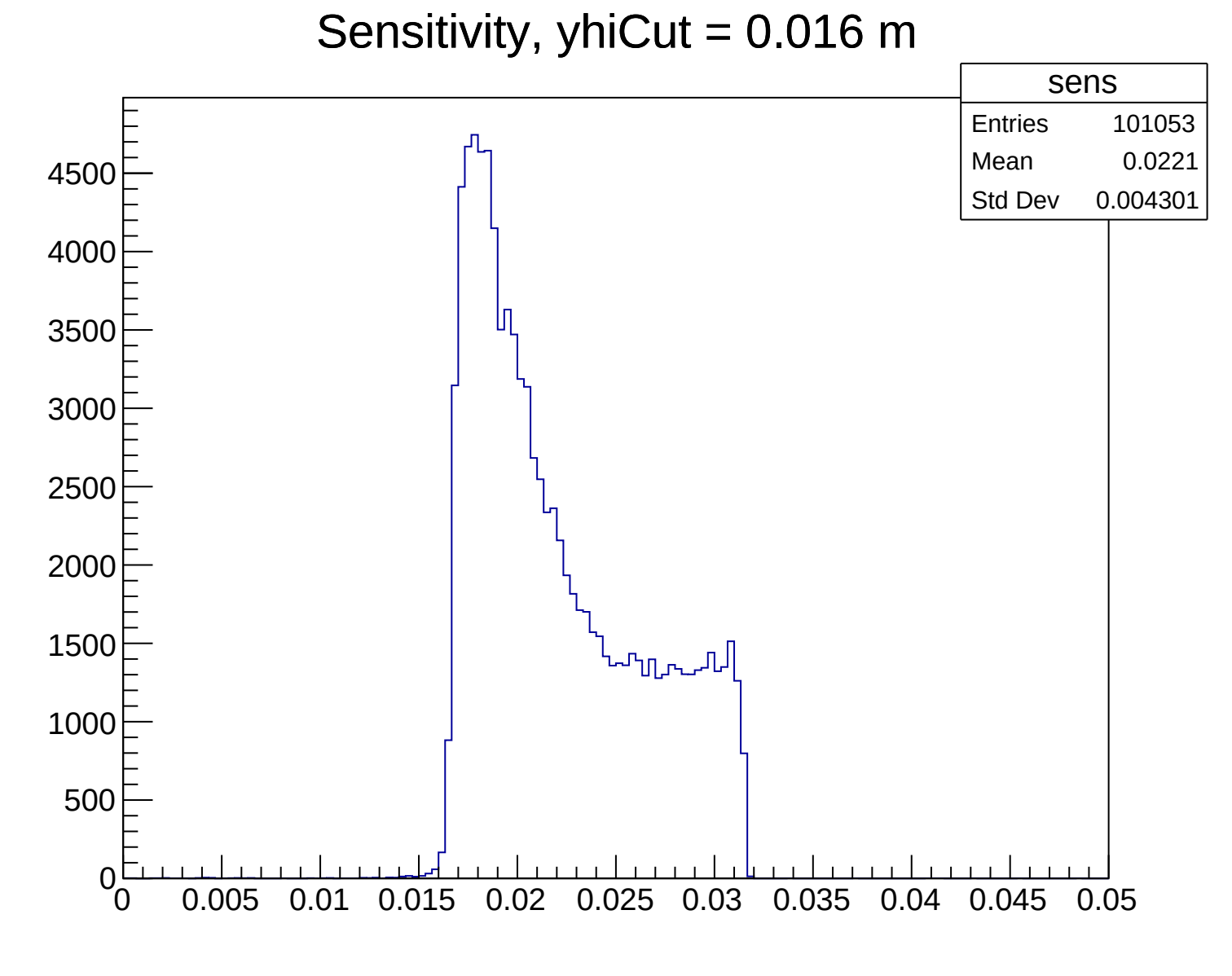

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

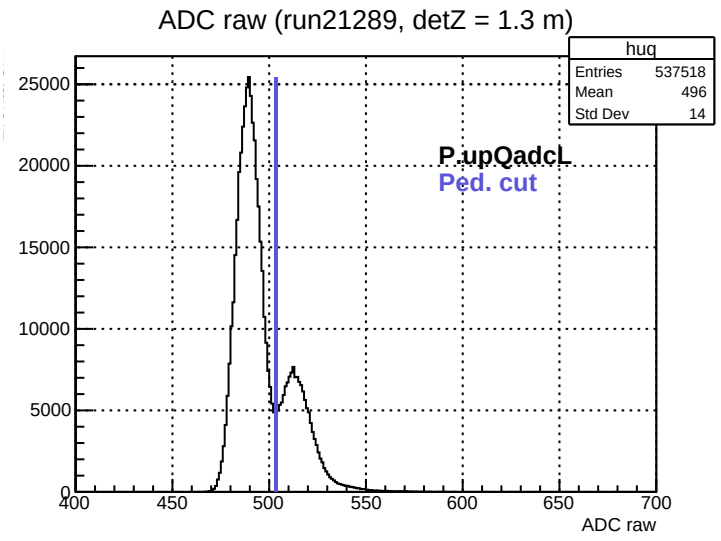

θlab (deg), yhiCut = 0.016 m
Theta
Entries 101053
Mean 4.771
Std Dev 0.5033
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

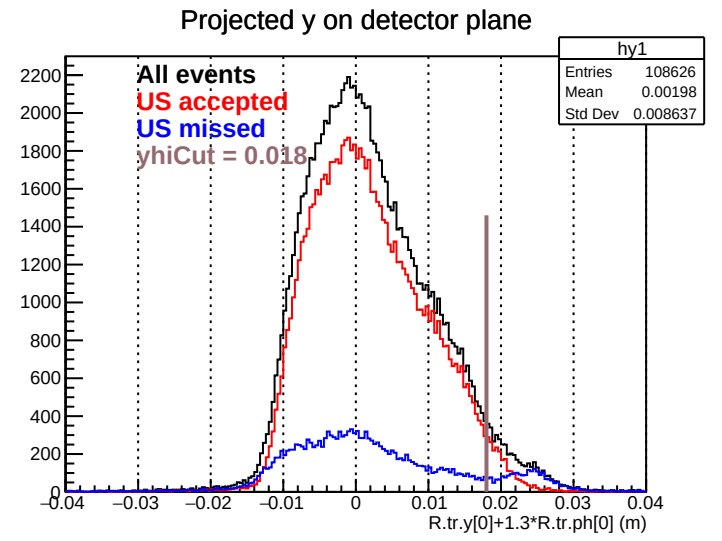

Asymmetry (ppm), yhiCut = 0.016 m
Asym
Entries 101053
Mean 0.5657
Std Dev 0.09022
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

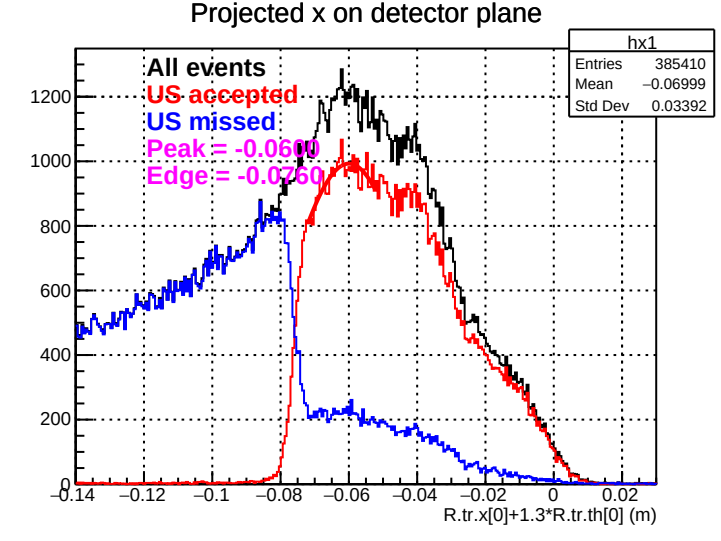

Stretched Asym. (ppm), yhiCut = 0.016 m
SAsym
Entries 101053
Mean 0.5529
Std Dev 0.08608
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

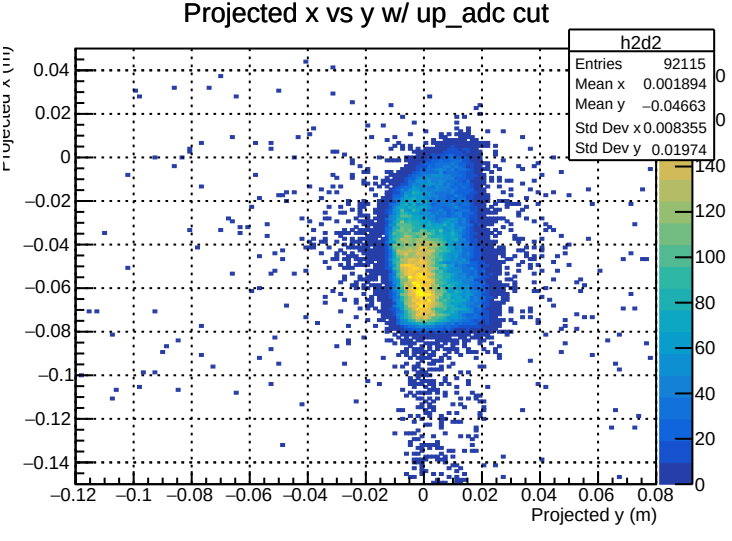

Q^2 (GeV/c)^2, yhiCut = 0.016 m
Q2
Entries 101053
Mean 0.006301
Std Dev 0.001364
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

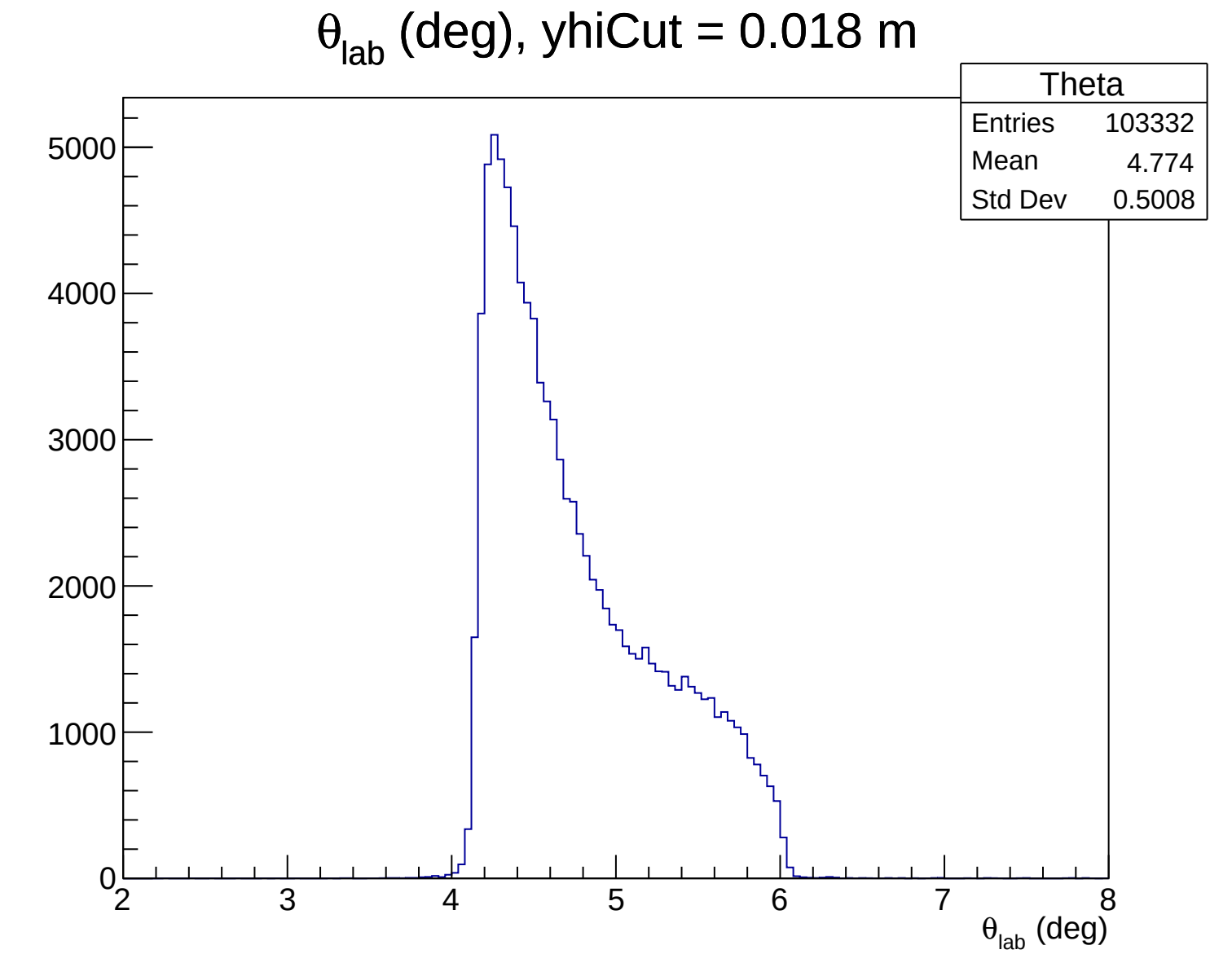

Sensitivity, yhiCut = 0.016 m
sens
Entries 101053
Mean 0.0221
Std Dev 0.004301
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

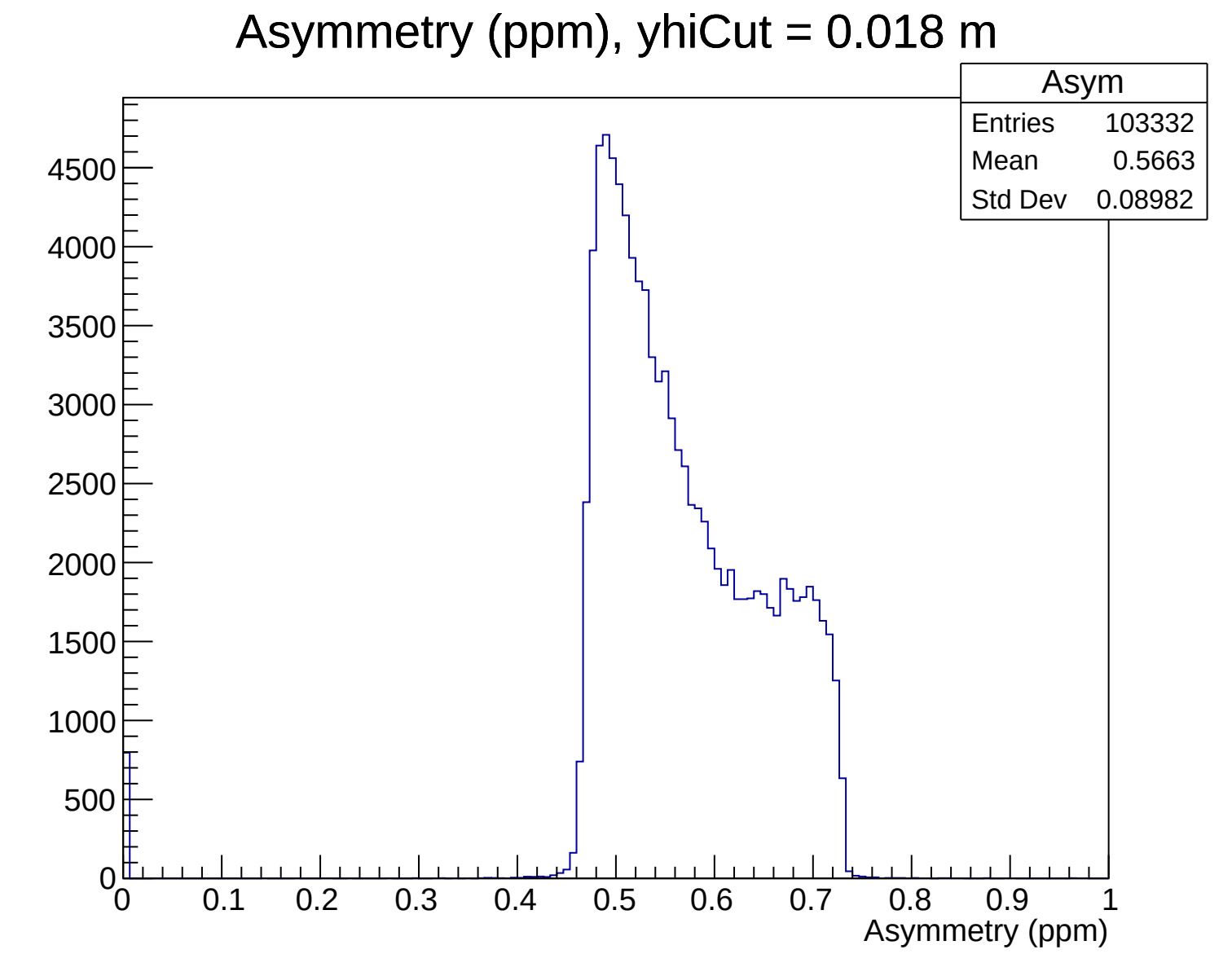

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

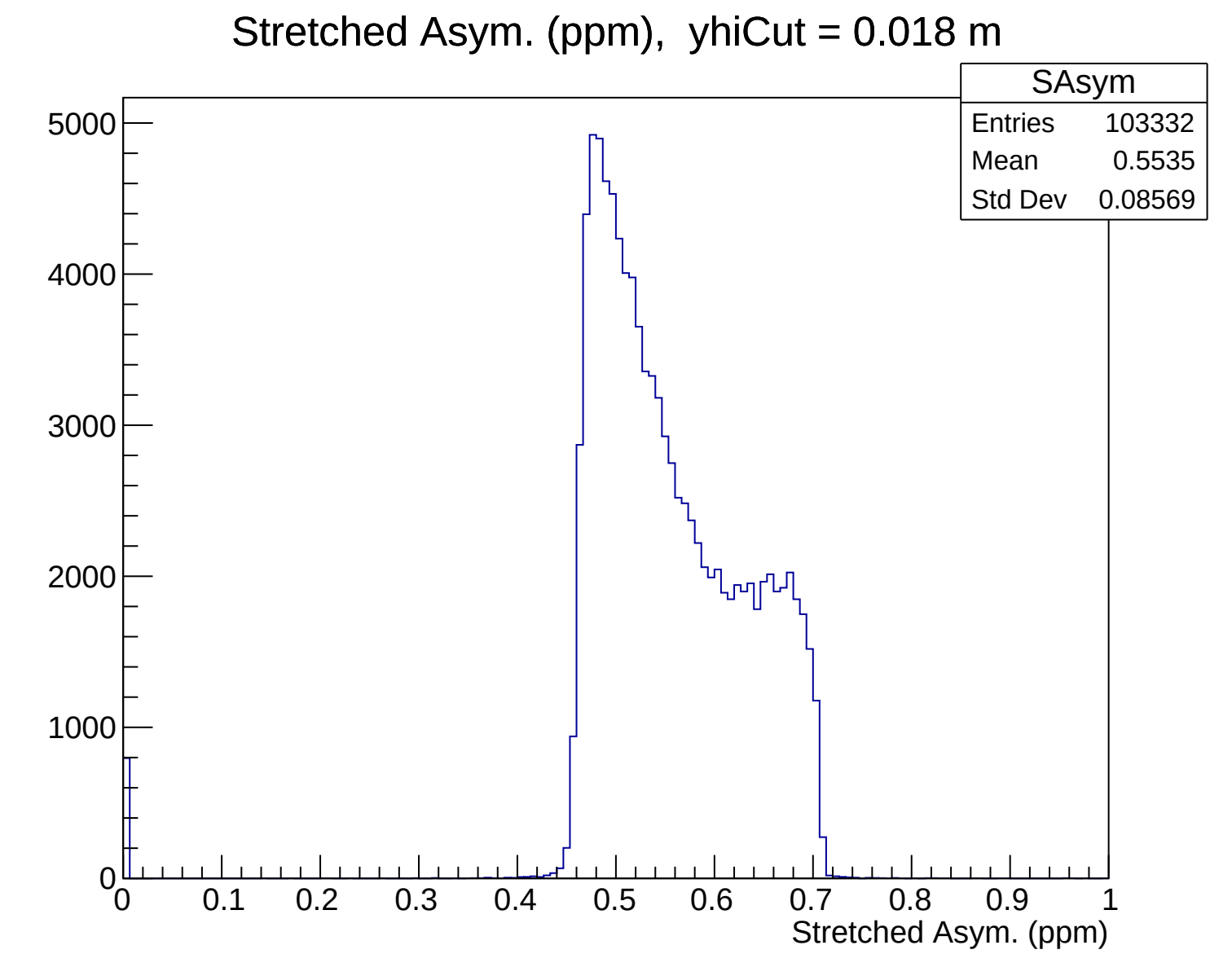

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.018
R.tr.y[0]+1.3*R.tr.ph[0] (m)

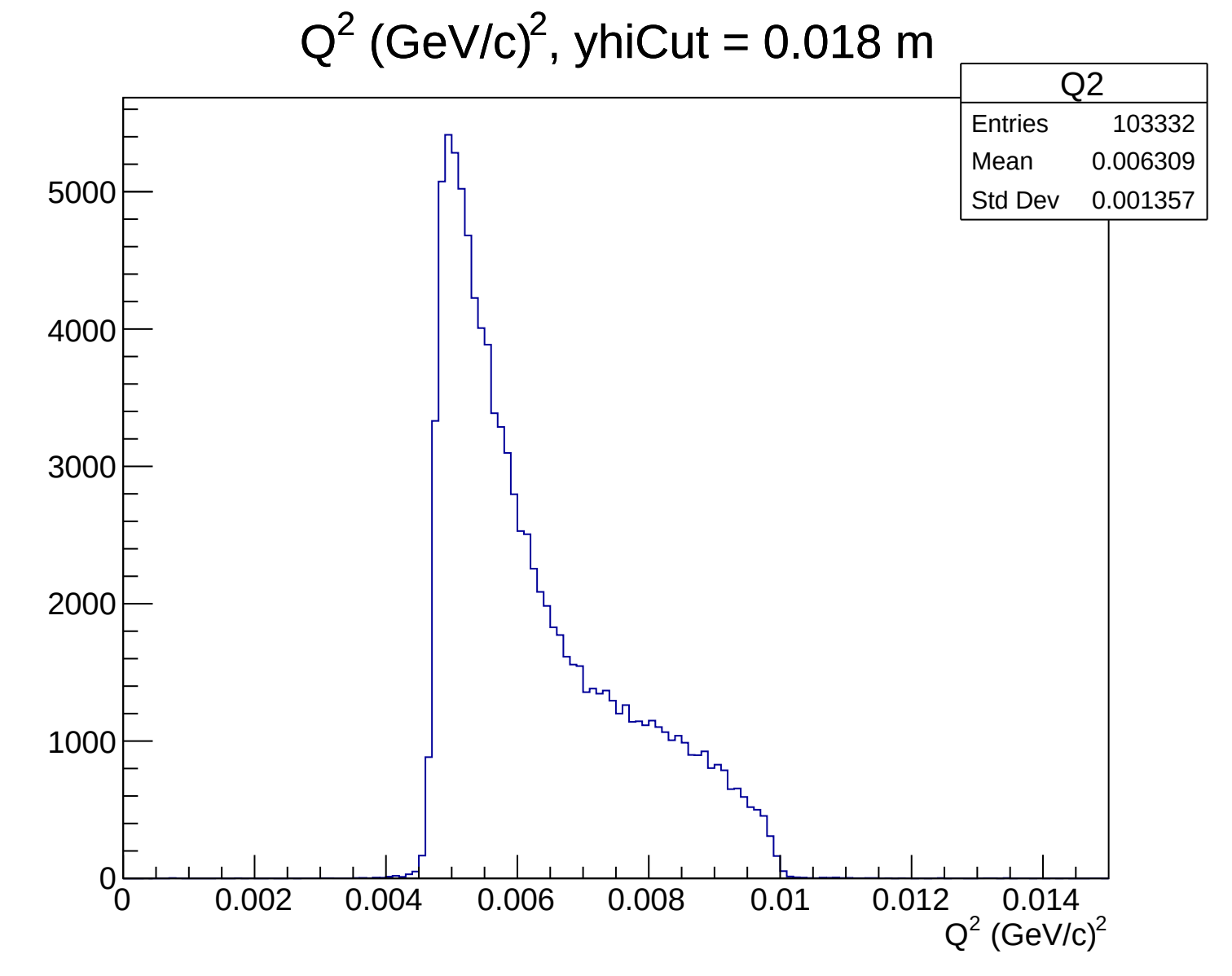

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

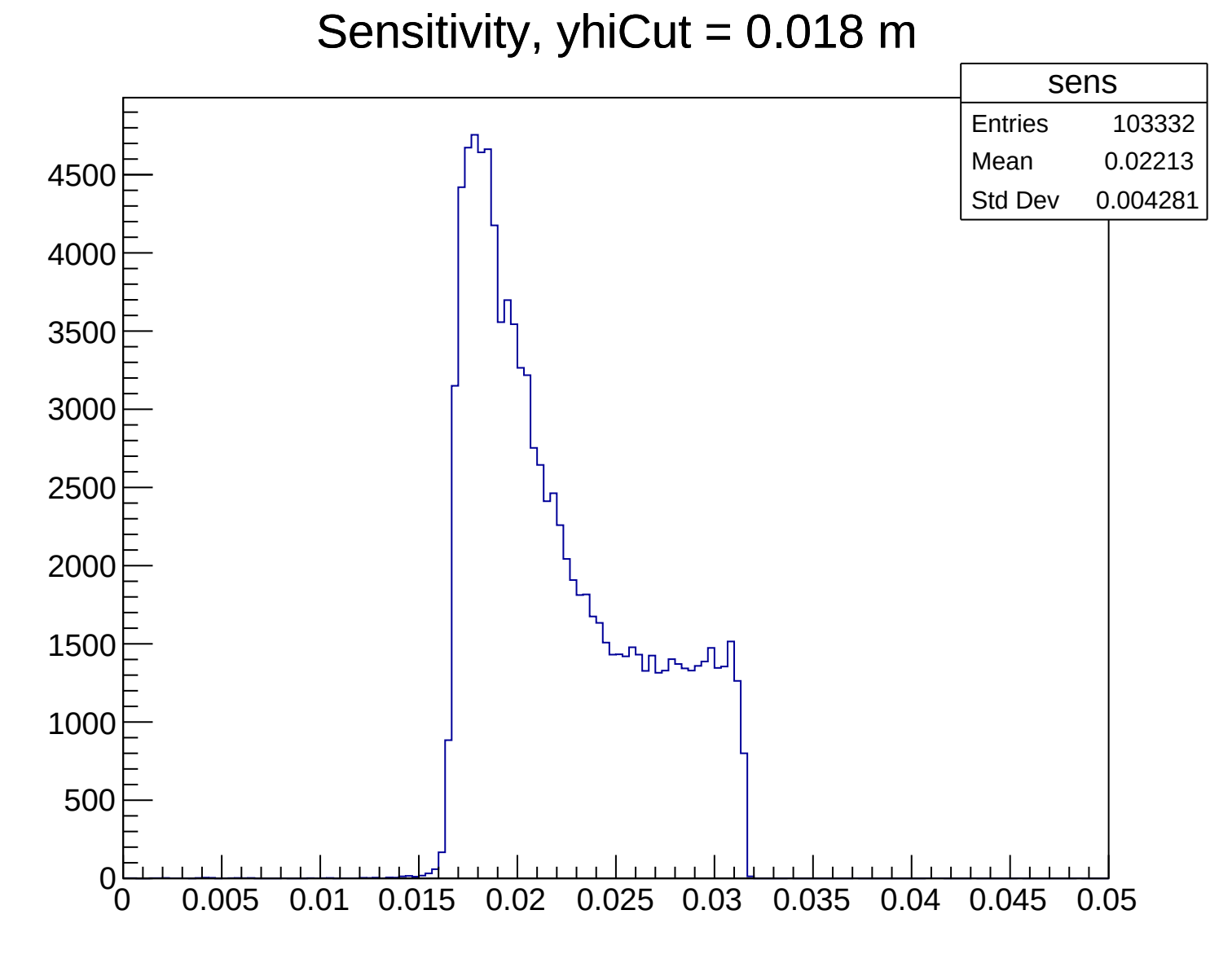

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

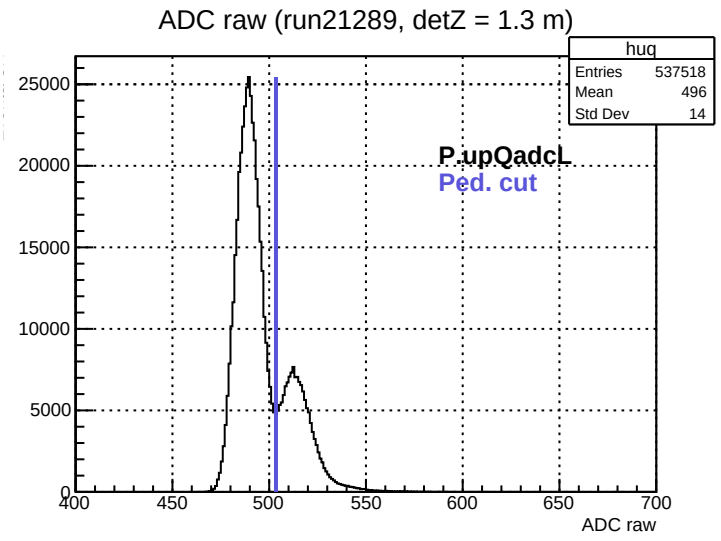

θlab (deg), yhiCut = 0.018 m
Theta
Entries 103332
Mean 4.774
Std Dev 0.5008
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

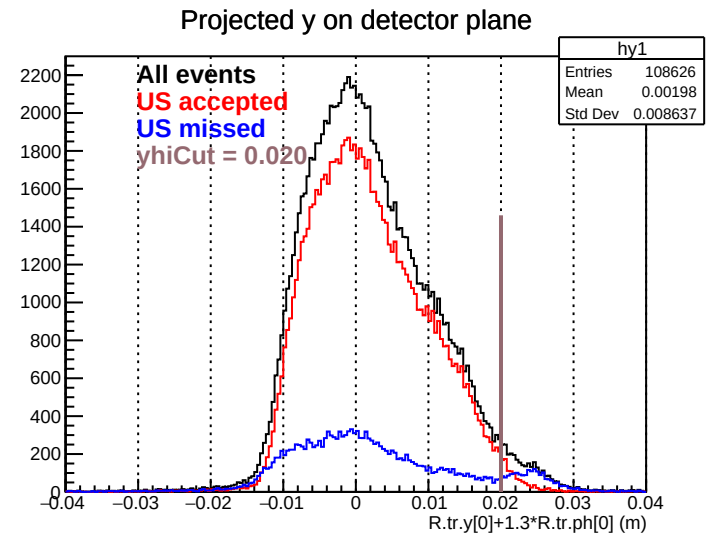

Asymmetry (ppm), yhiCut = 0.018 m
Asym
Entries 103332
Mean 0.5663
Std Dev 0.08982
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

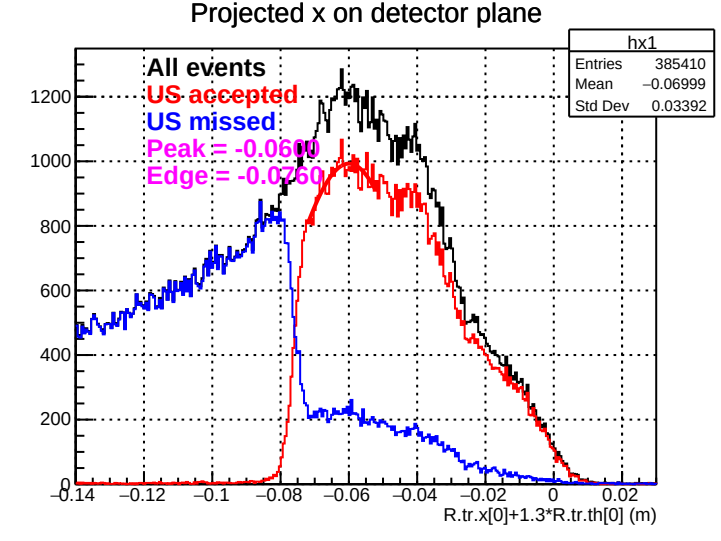

Stretched Asym. (ppm), yhiCut = 0.018 m
SAsym
Entries 103332
Mean 0.5535
Std Dev 0.08569
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

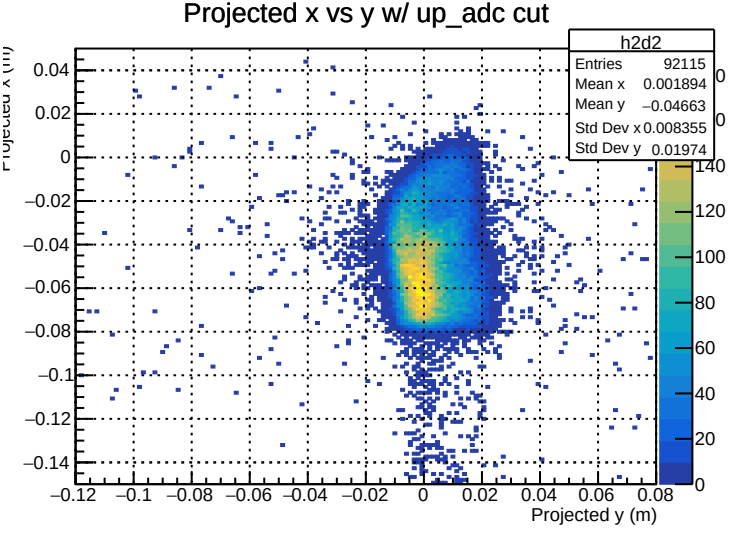

Q^2 (GeV/c)^2, yhiCut = 0.018 m
Q2
Entries 103332
Mean 0.006309
Std Dev 0.001357
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

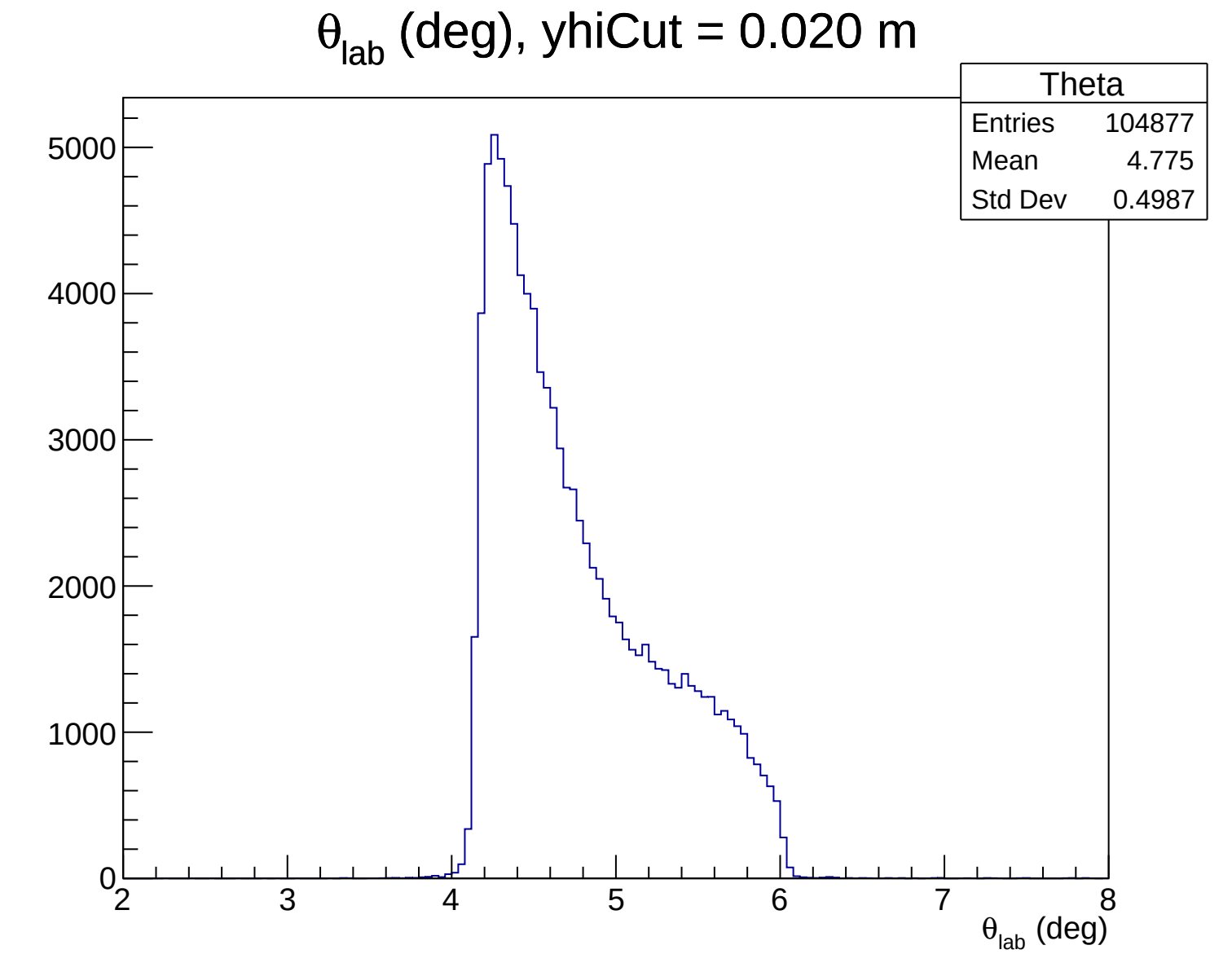

Sensitivity, yhiCut = 0.018 m
sens
Entries 103332
Mean 0.02213
Std Dev 0.004281
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

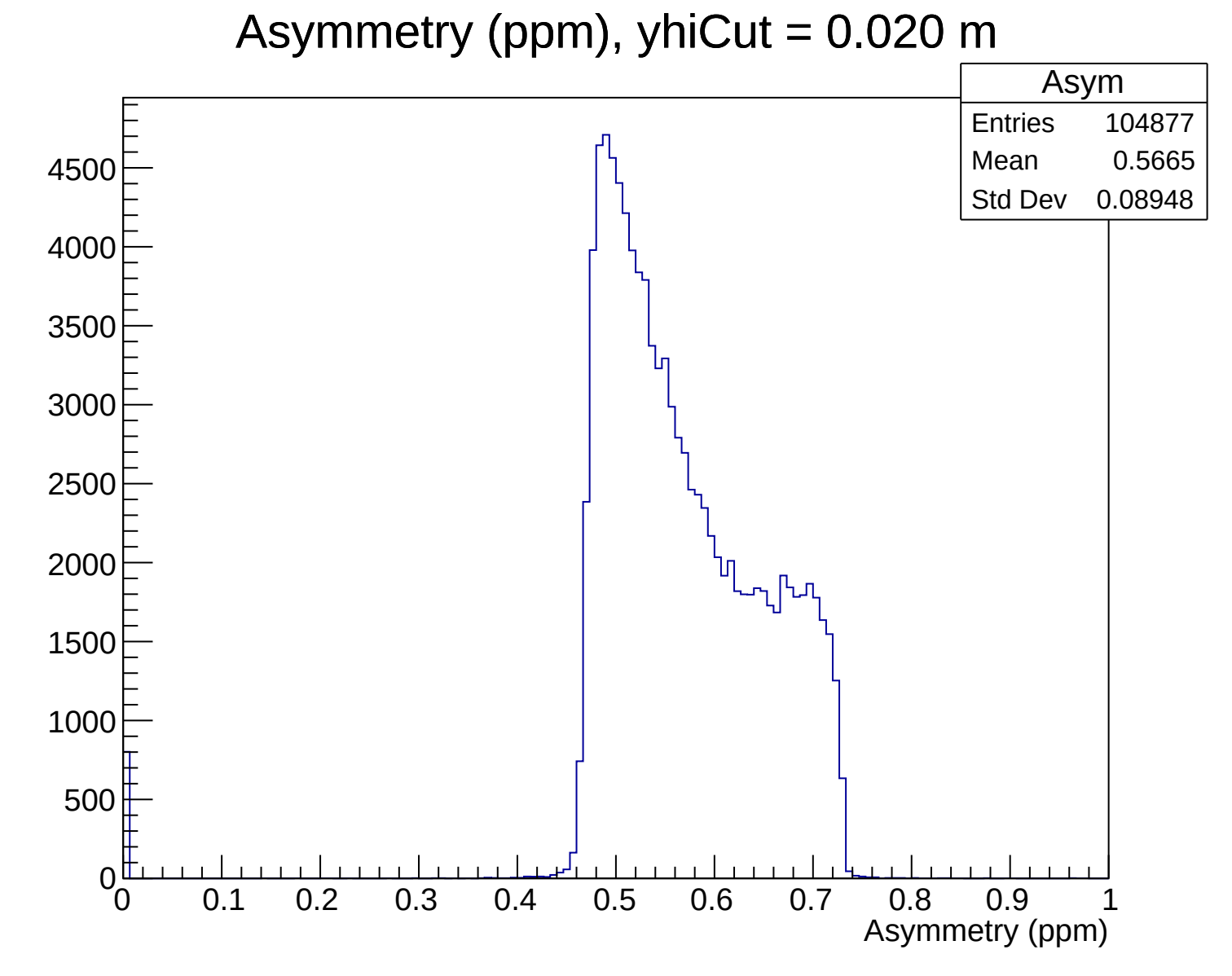

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

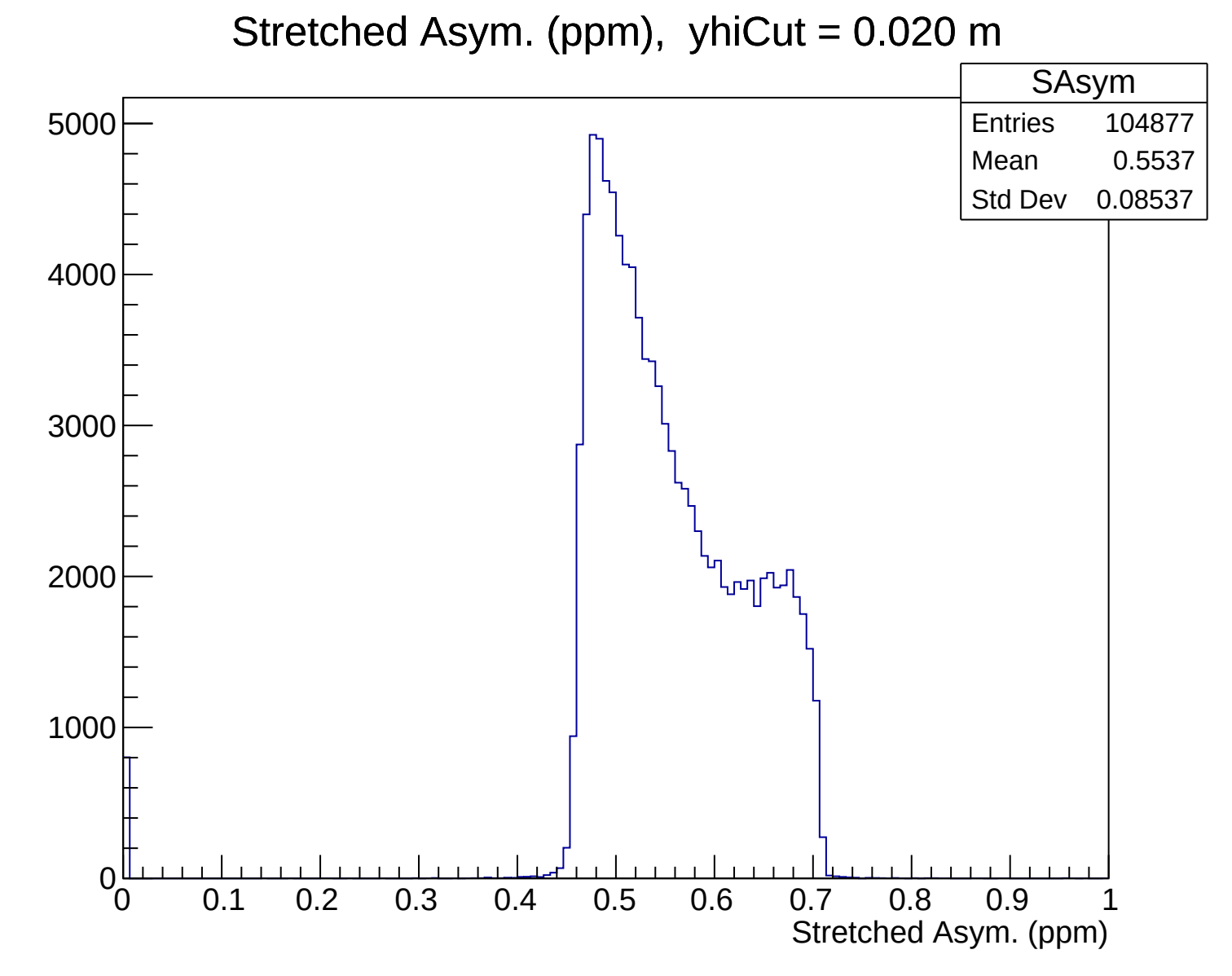

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.020
R.tr.y[0]+1.3*R.tr.ph[0] (m)

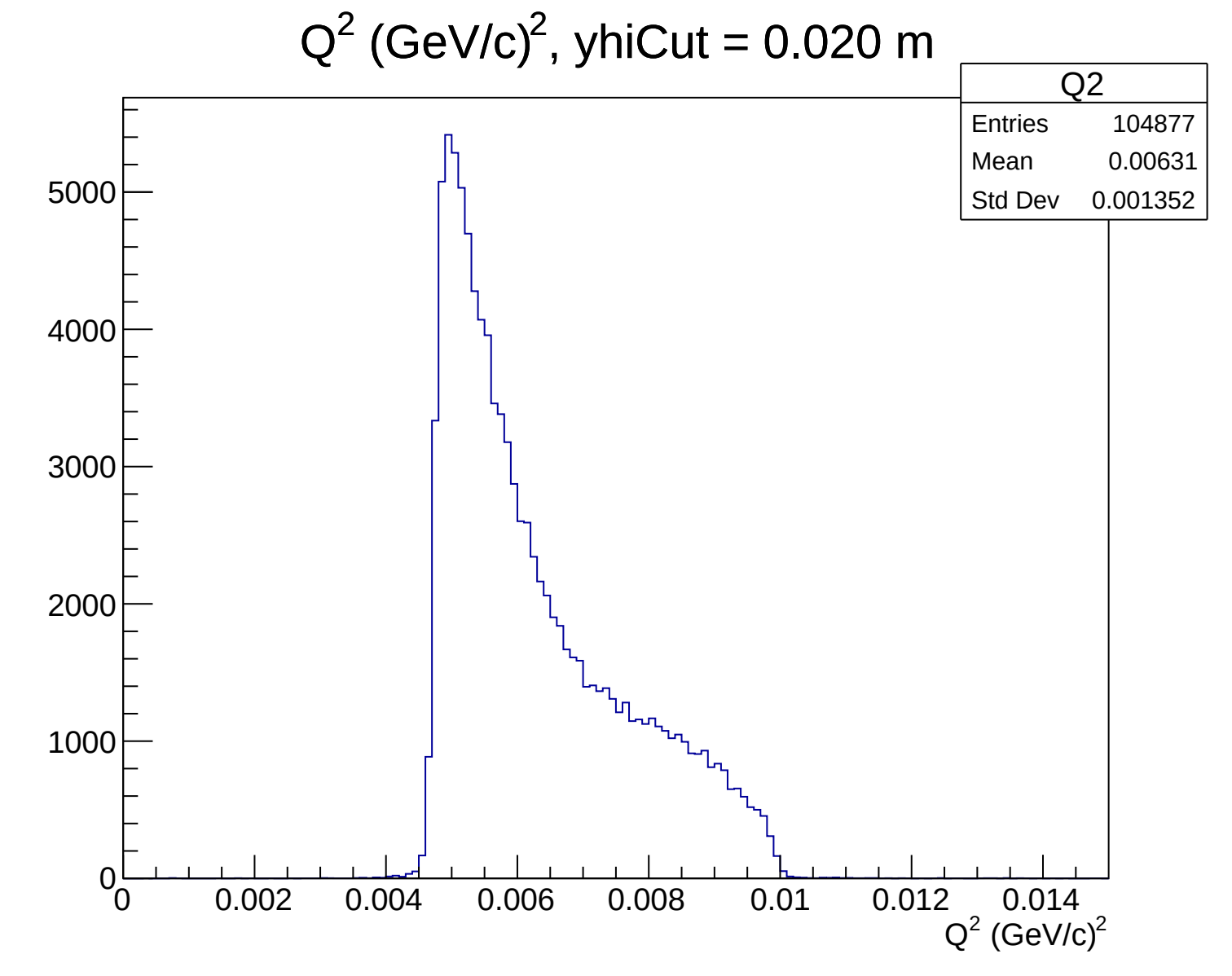

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

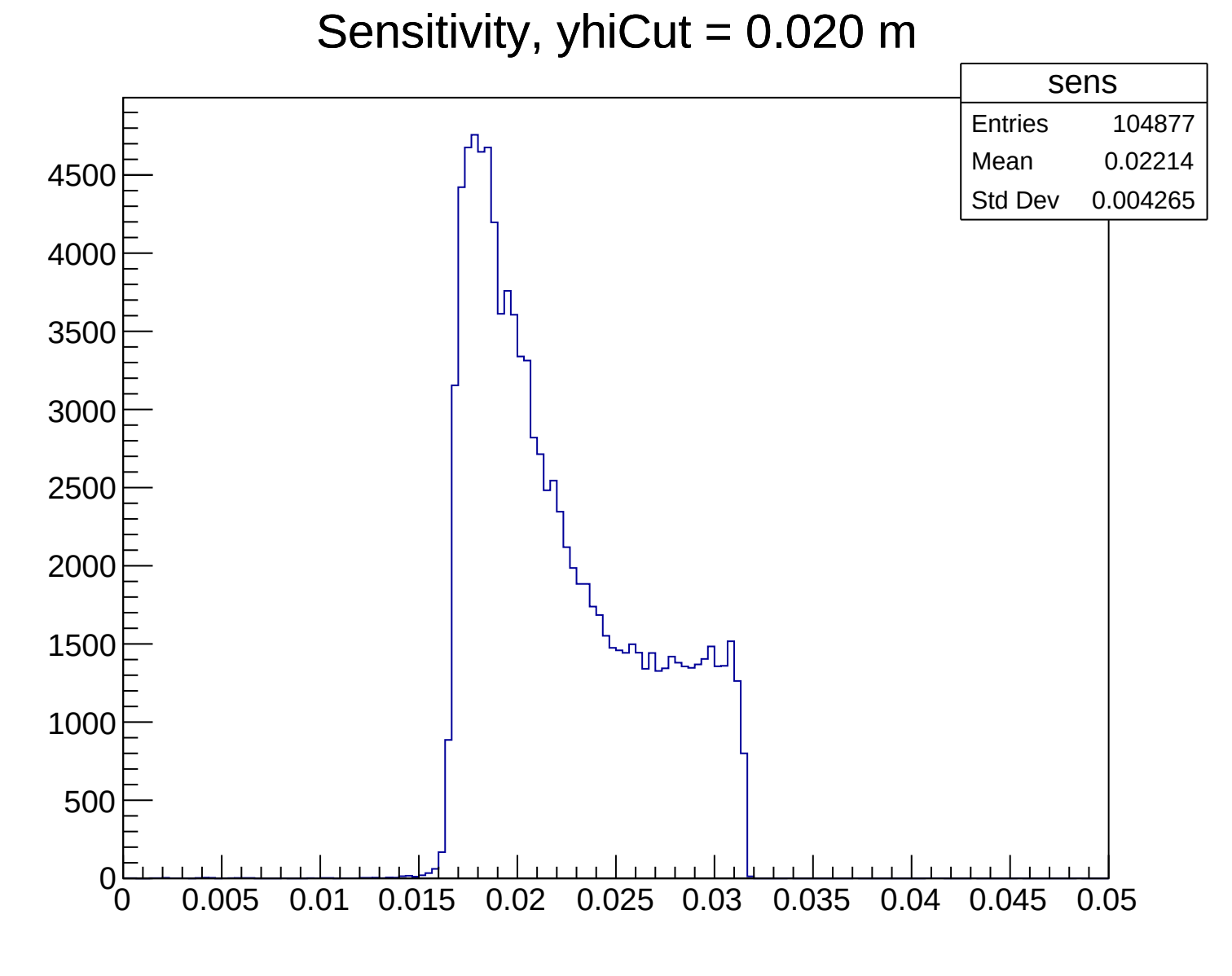

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

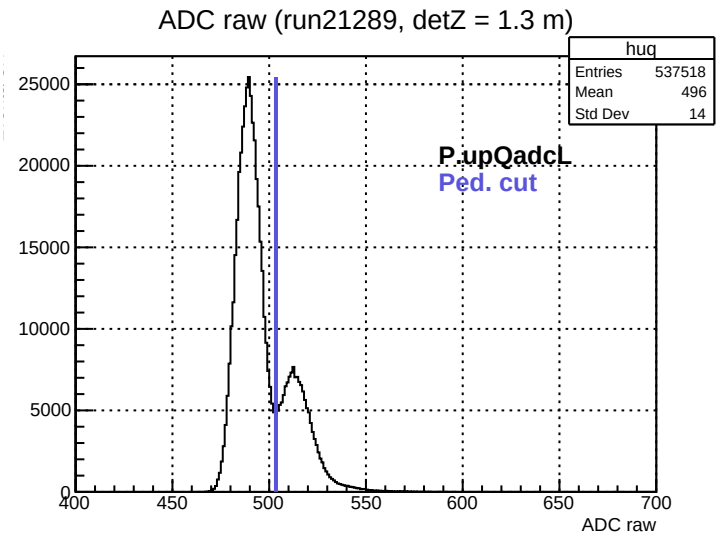

θlab (deg), yhiCut = 0.020 m
Theta
Entries 104877
Mean 4.775
Std Dev 0.4987
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

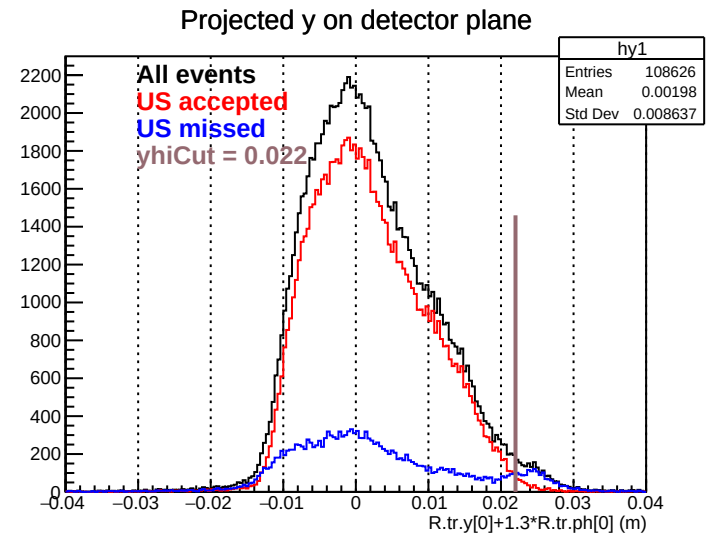

Asymmetry (ppm), yhiCut = 0.020 m
Asym
Entries 104877
Mean 0.5665
Std Dev 0.08948
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

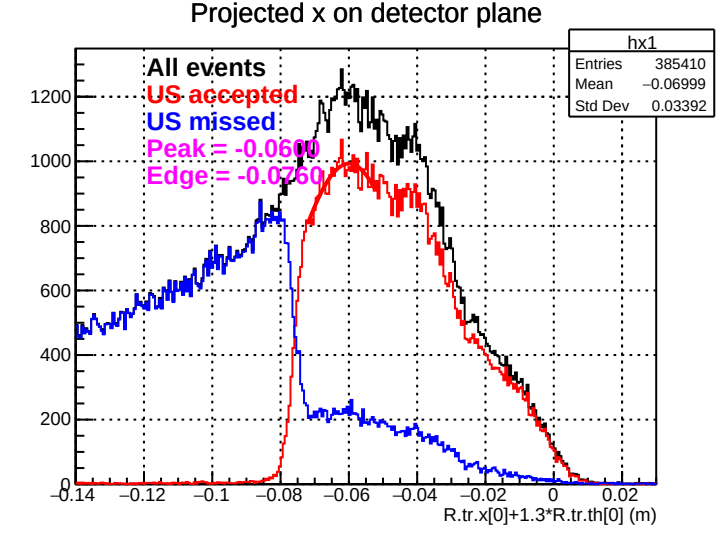

Stretched Asym. (ppm), yhiCut = 0.020 m
SAsym
Entries 104877
Mean 0.5537
Std Dev 0.08537
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

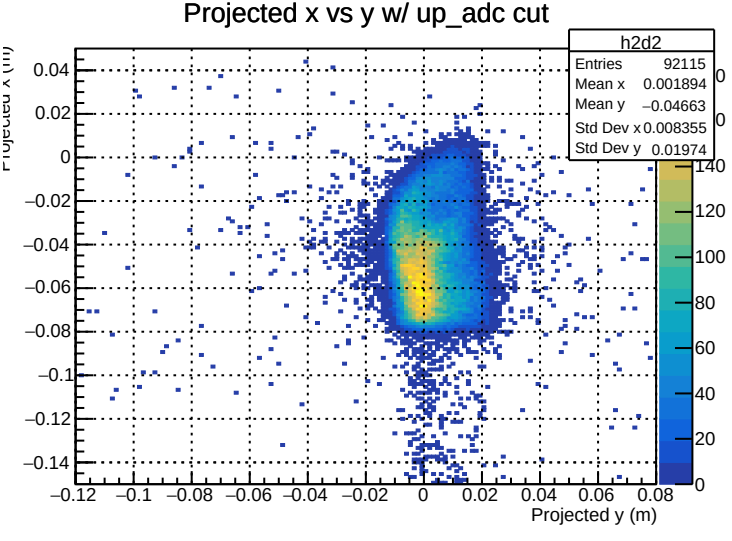

Q^2 (GeV/c)^2, yhiCut = 0.020 m
Q2
Entries 104877
Mean 0.00631
Std Dev 0.001352
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

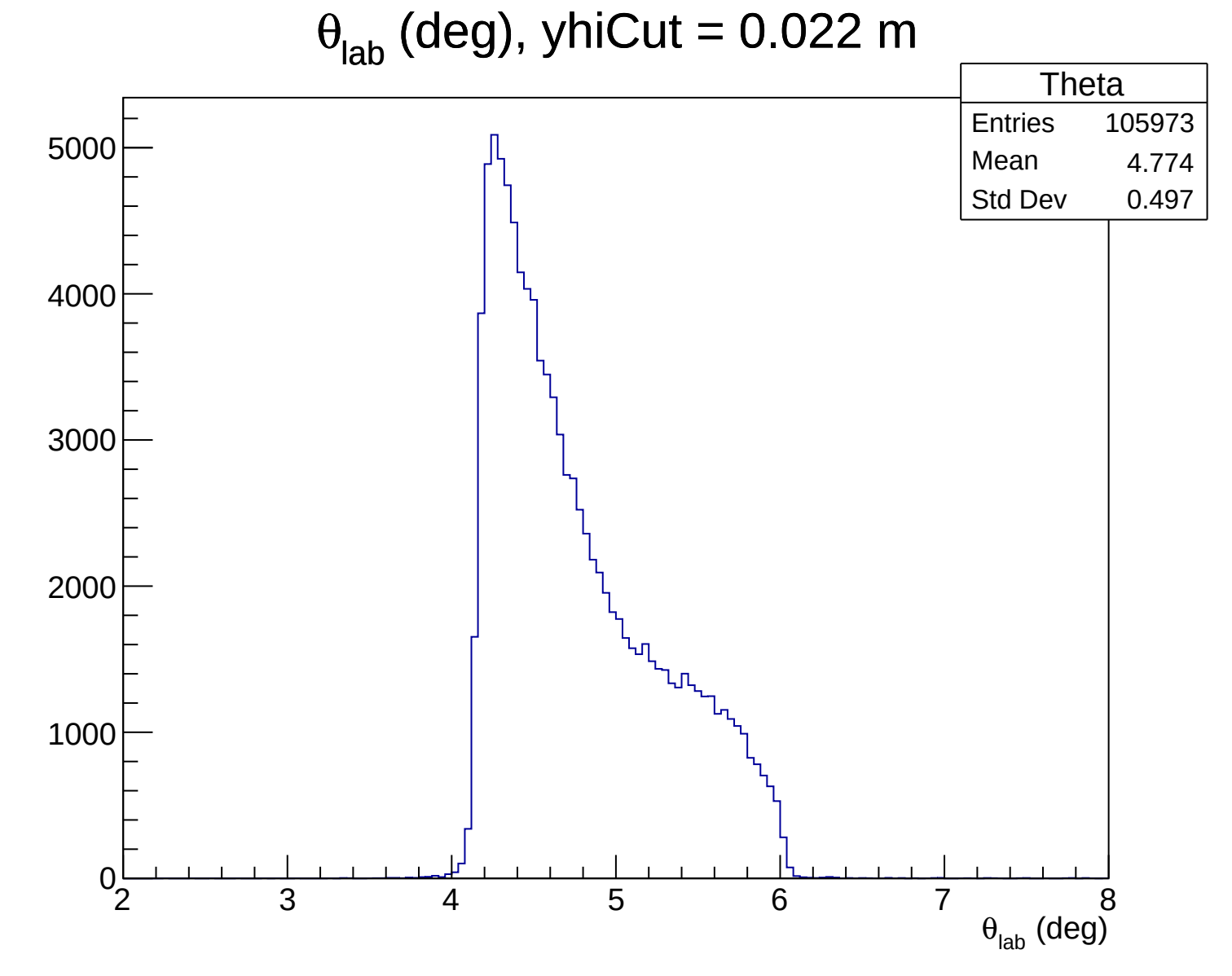

Sensitivity, yhiCut = 0.020 m
sens
Entries 104877
Mean 0.02214
Std Dev 0.004265
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

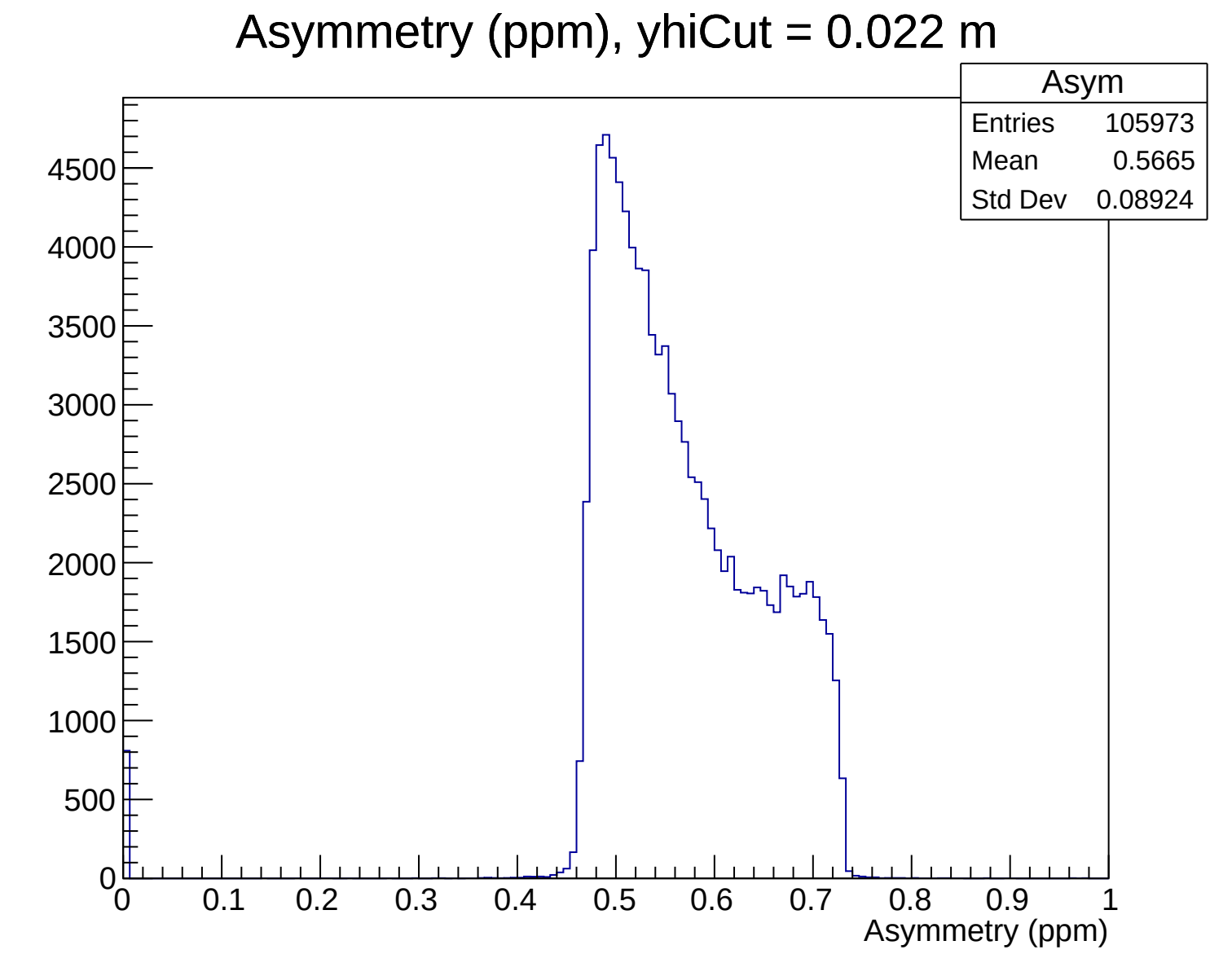

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

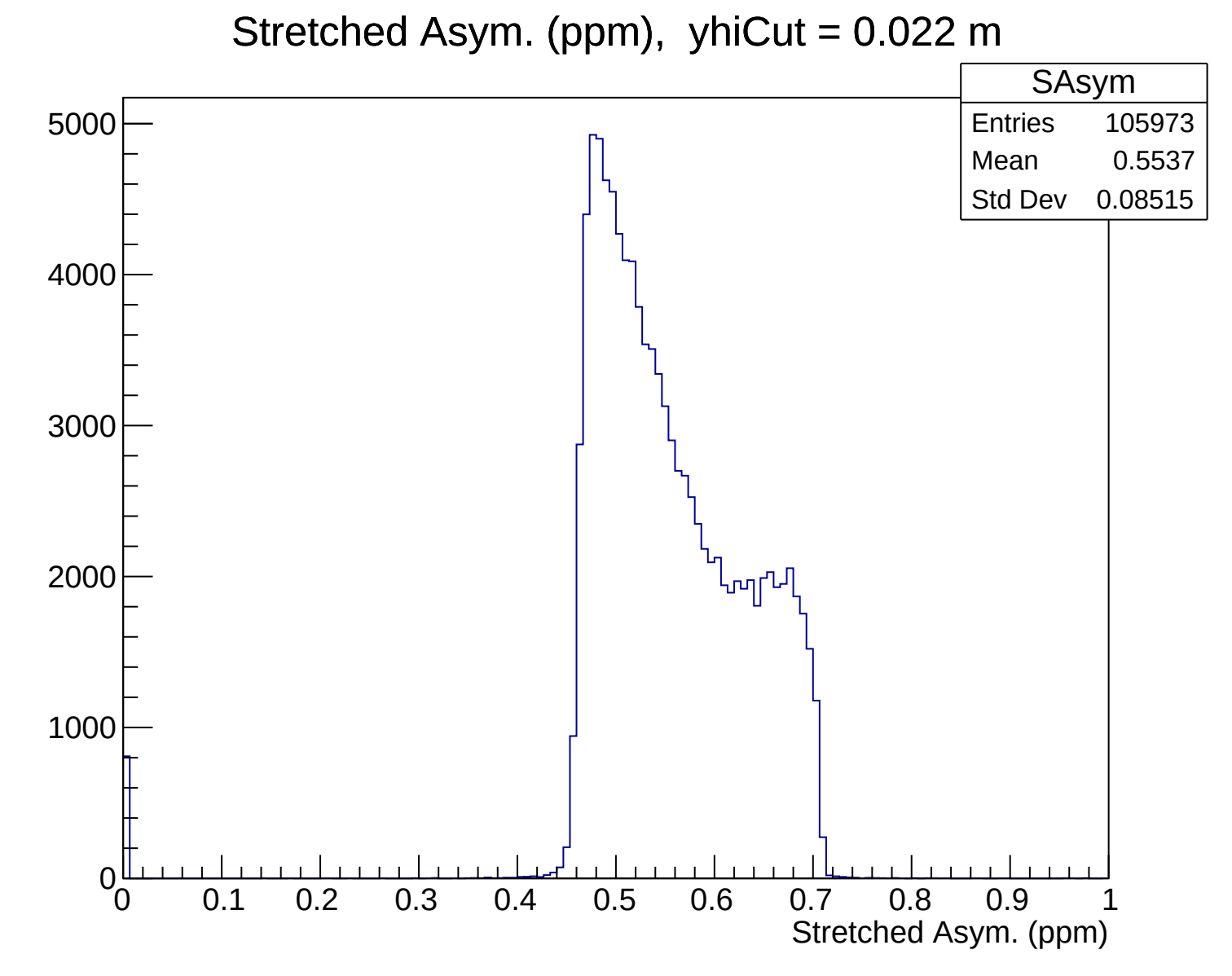

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.022
R.tr.y[0]+1.3*R.tr.ph[0] (m)

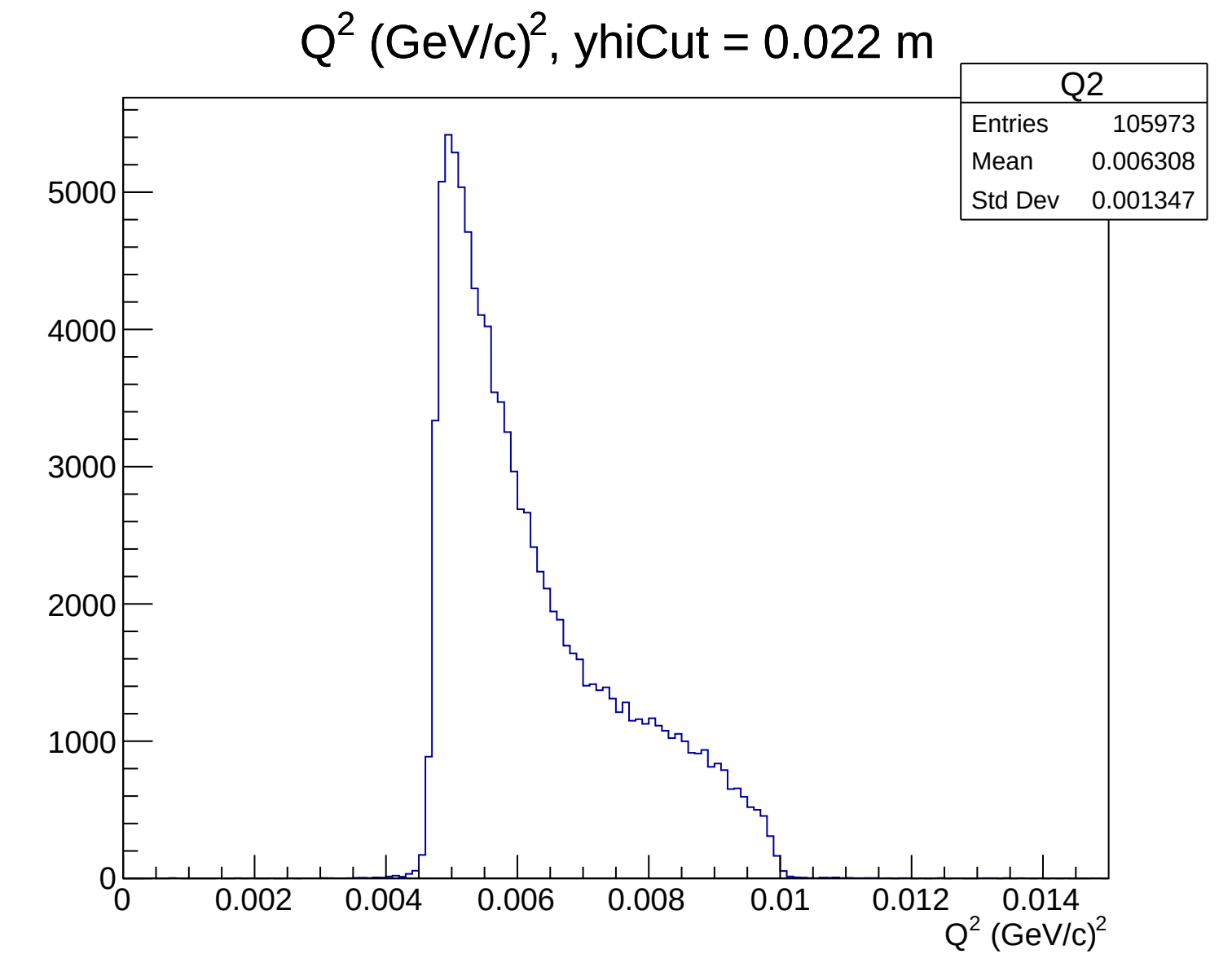

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

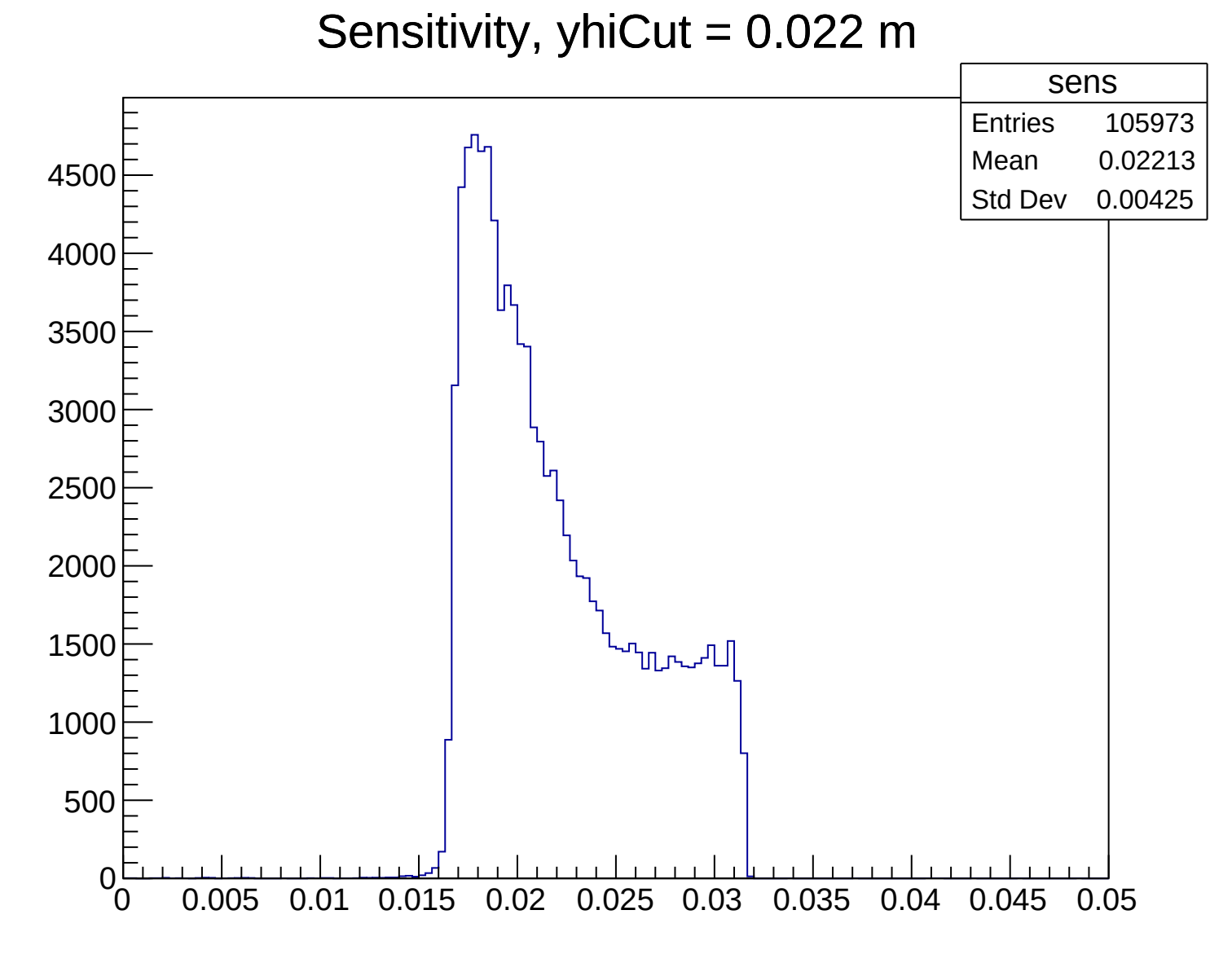

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

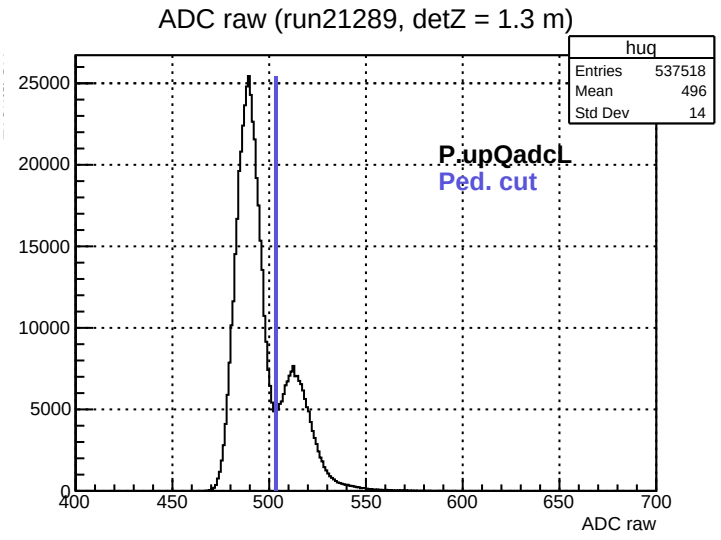

θlab (deg), yhiCut = 0.022 m
Theta
Entries 105973
Mean 4.774
Std Dev 0.497
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

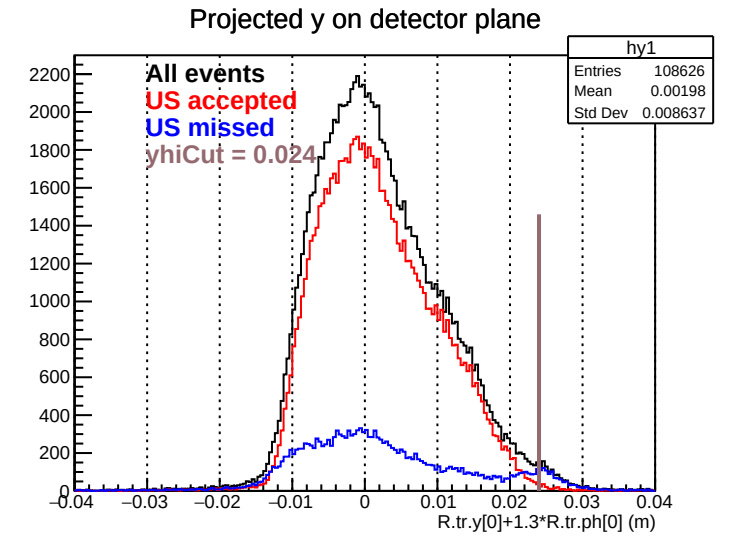

Asymmetry (ppm), yhiCut = 0.022 m
Asym
Entries 105973
Mean 0.5665
Std Dev 0.08924
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

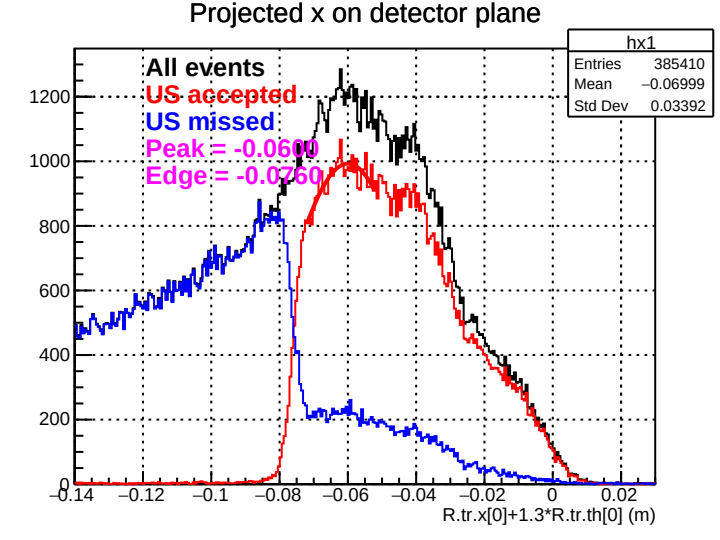

Stretched Asym. (ppm), yhiCut = 0.022 m
SAsym
Entries 105973
Mean 0.5537
Std Dev 0.08515
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

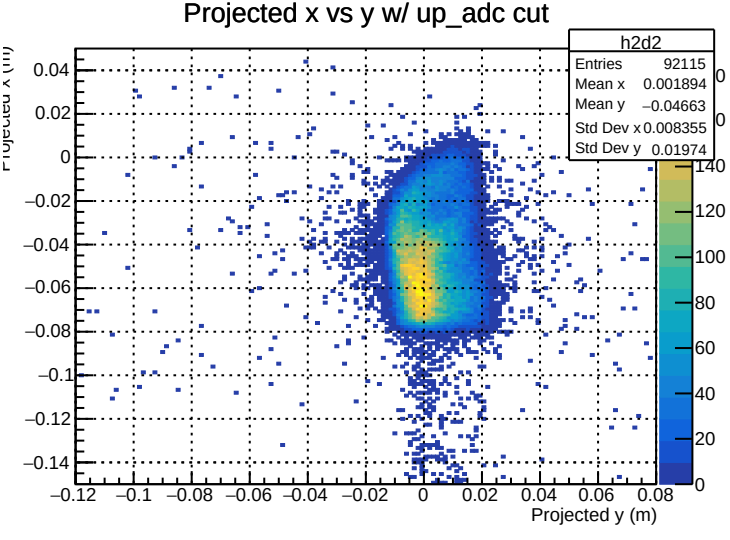

Q^2 (GeV/c)^2, yhiCut = 0.022 m
Q2
Entries 105973
Mean 0.006308
Std Dev 0.001347
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

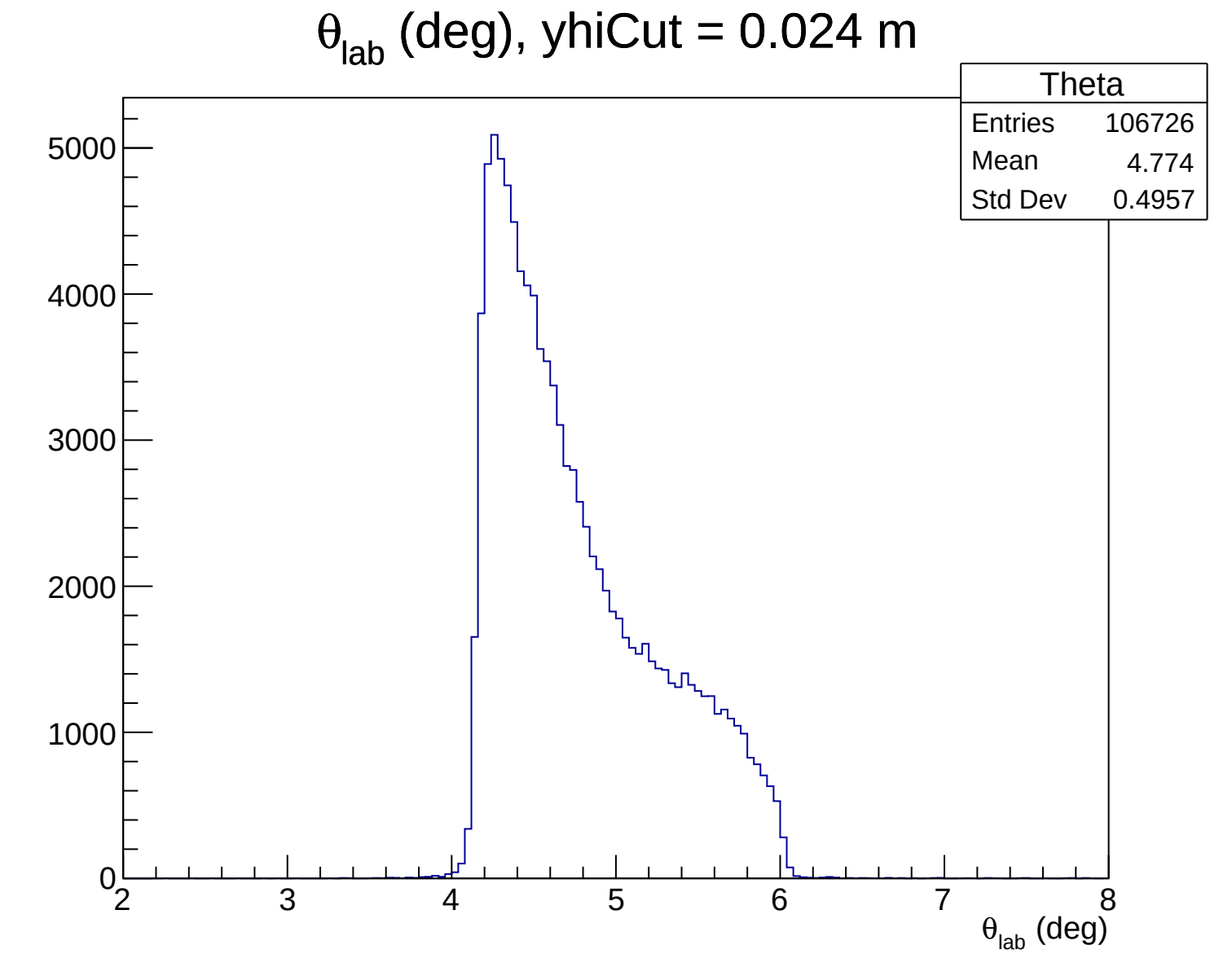

Sensitivity, yhiCut = 0.022 m
sens
Entries 105973
Mean 0.02213
Std Dev 0.00425
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

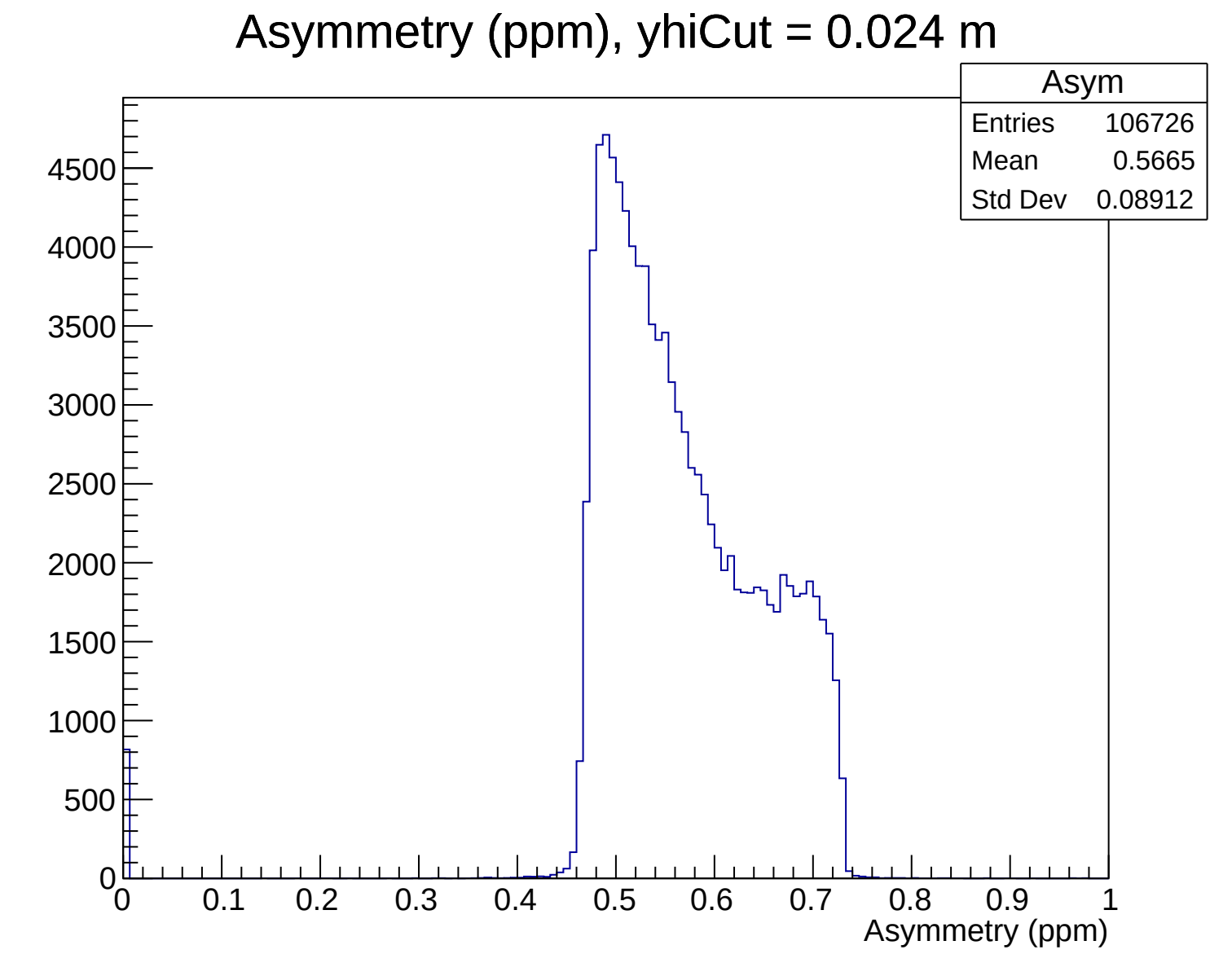

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

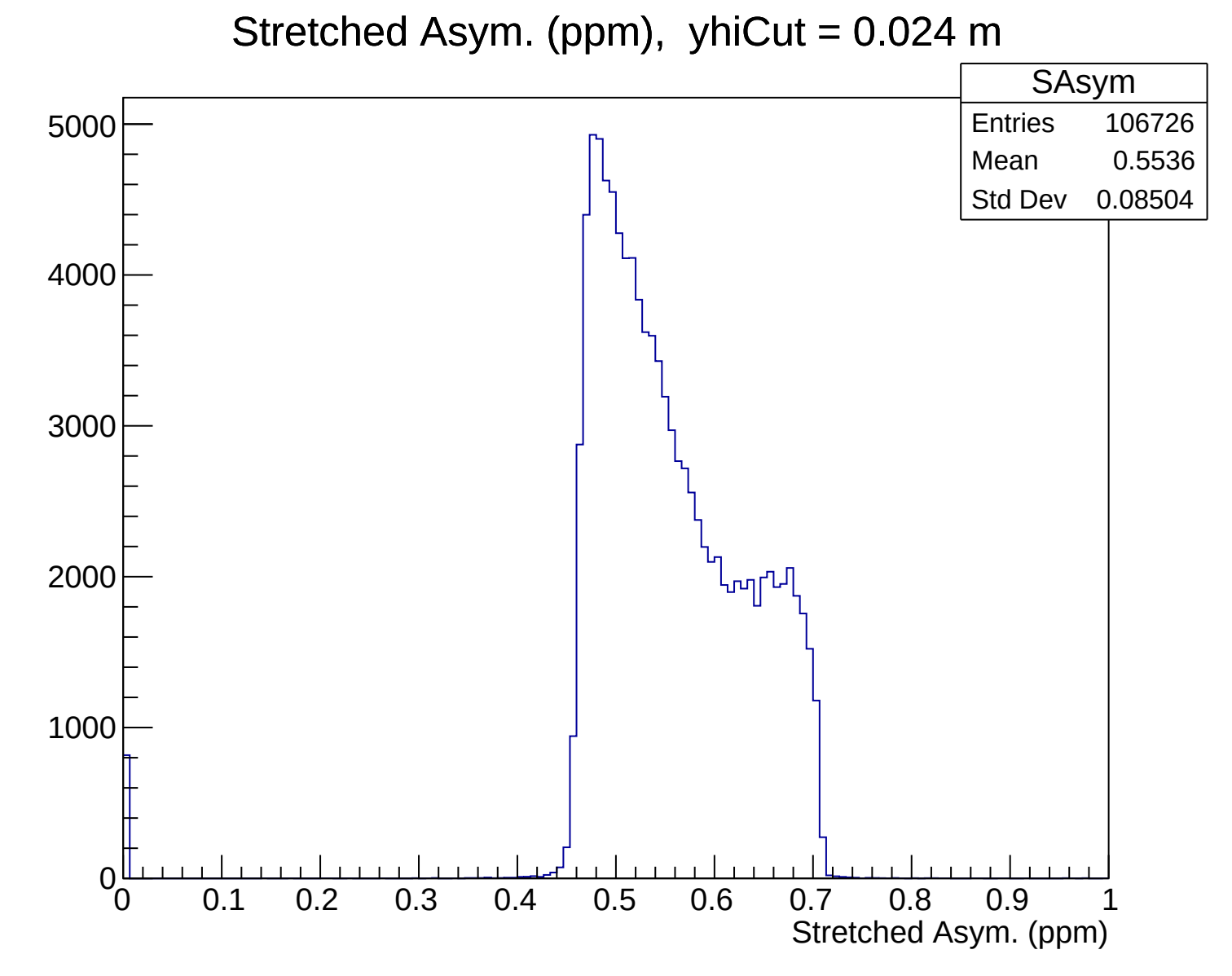

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.024
R.tr.y[0]+1.3*R.tr.ph[0] (m)

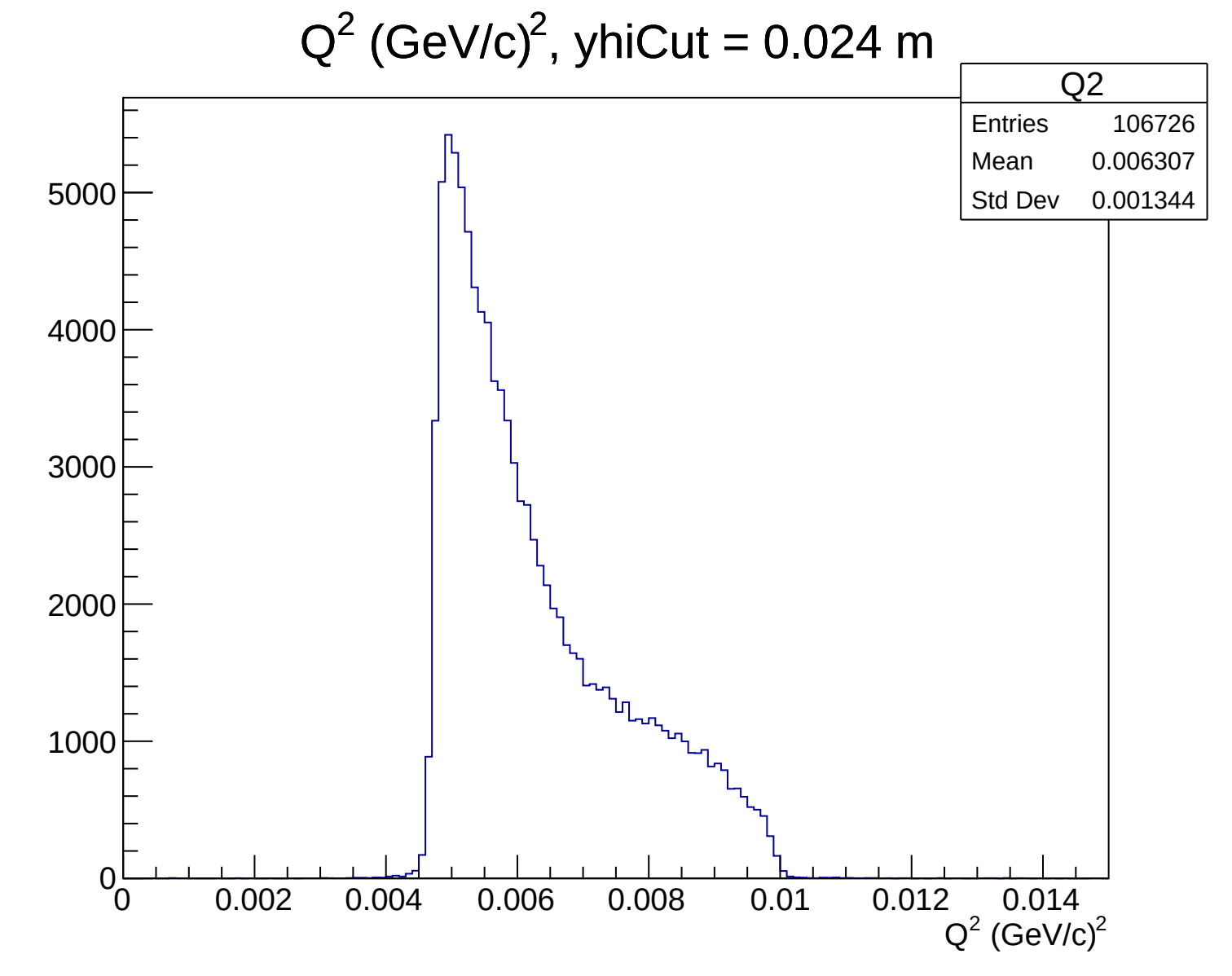

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

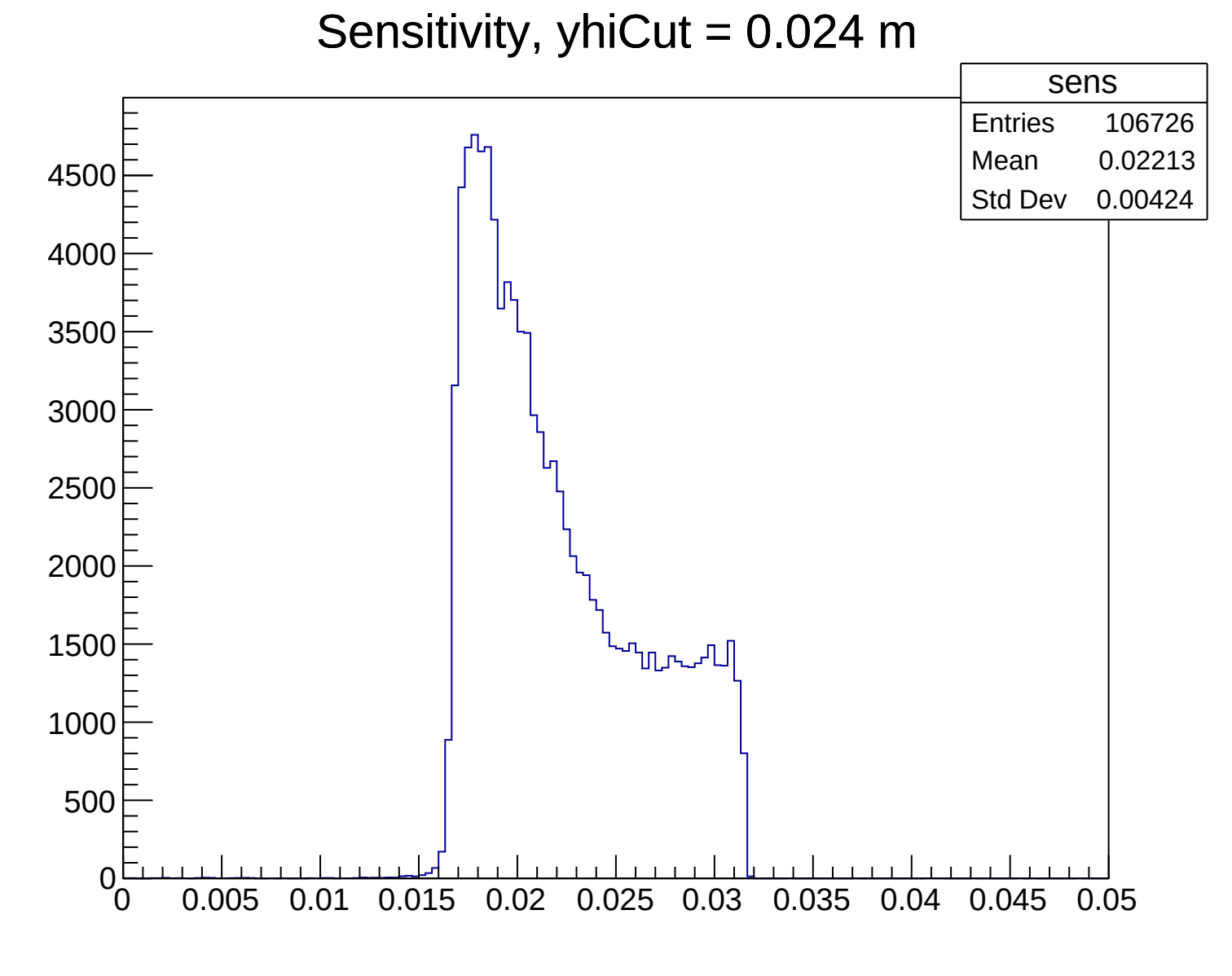

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

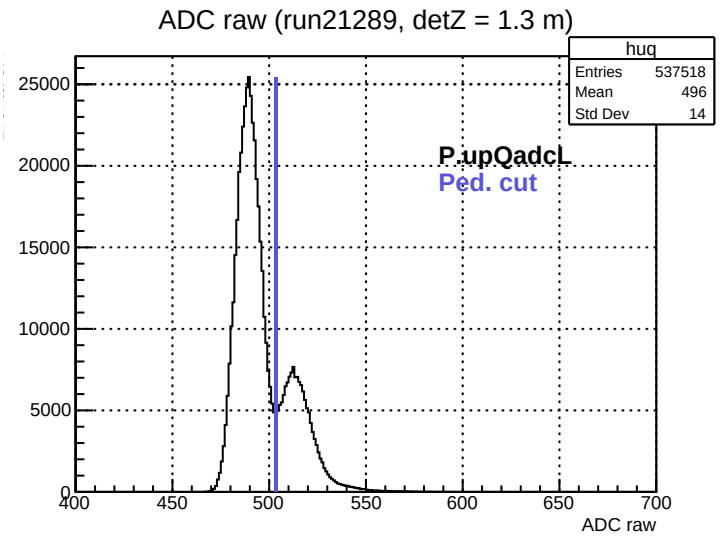

θlab (deg), yhiCut = 0.024 m
Theta
Entries 106726
Mean 4.774
Std Dev 0.4957
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

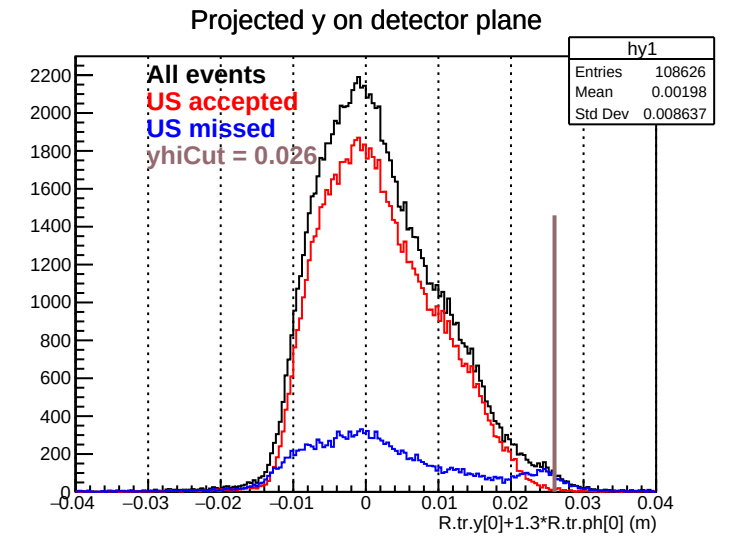

Asymmetry (ppm), yhiCut = 0.024 m
Asym
Entries 106726
Mean 0.5665
Std Dev 0.08912
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

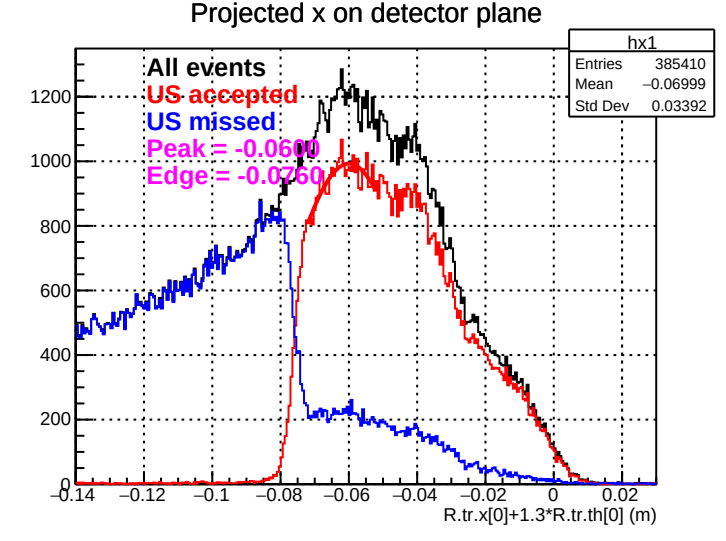

Stretched Asym. (ppm), yhiCut = 0.024 m
SAsym
Entries 106726
Mean 0.5536
Std Dev 0.08504
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

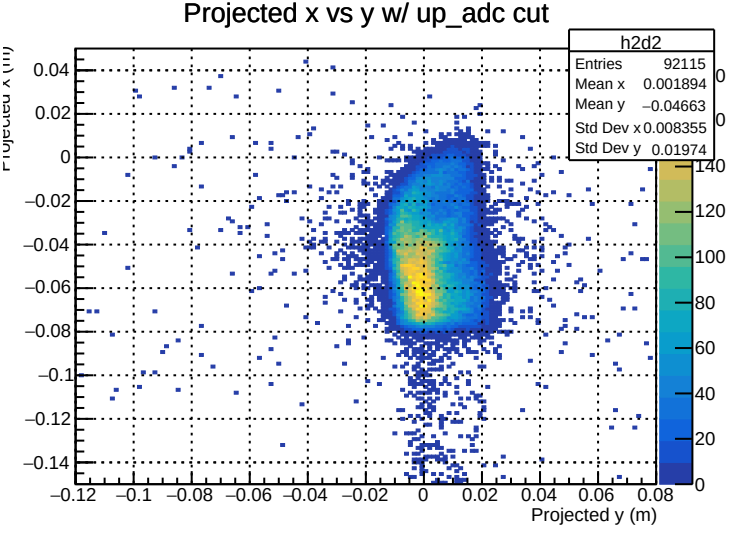

Q^2 (GeV/c)^2, yhiCut = 0.024 m
Q2
Entries 106726
Mean 0.006307
Std Dev 0.001344
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

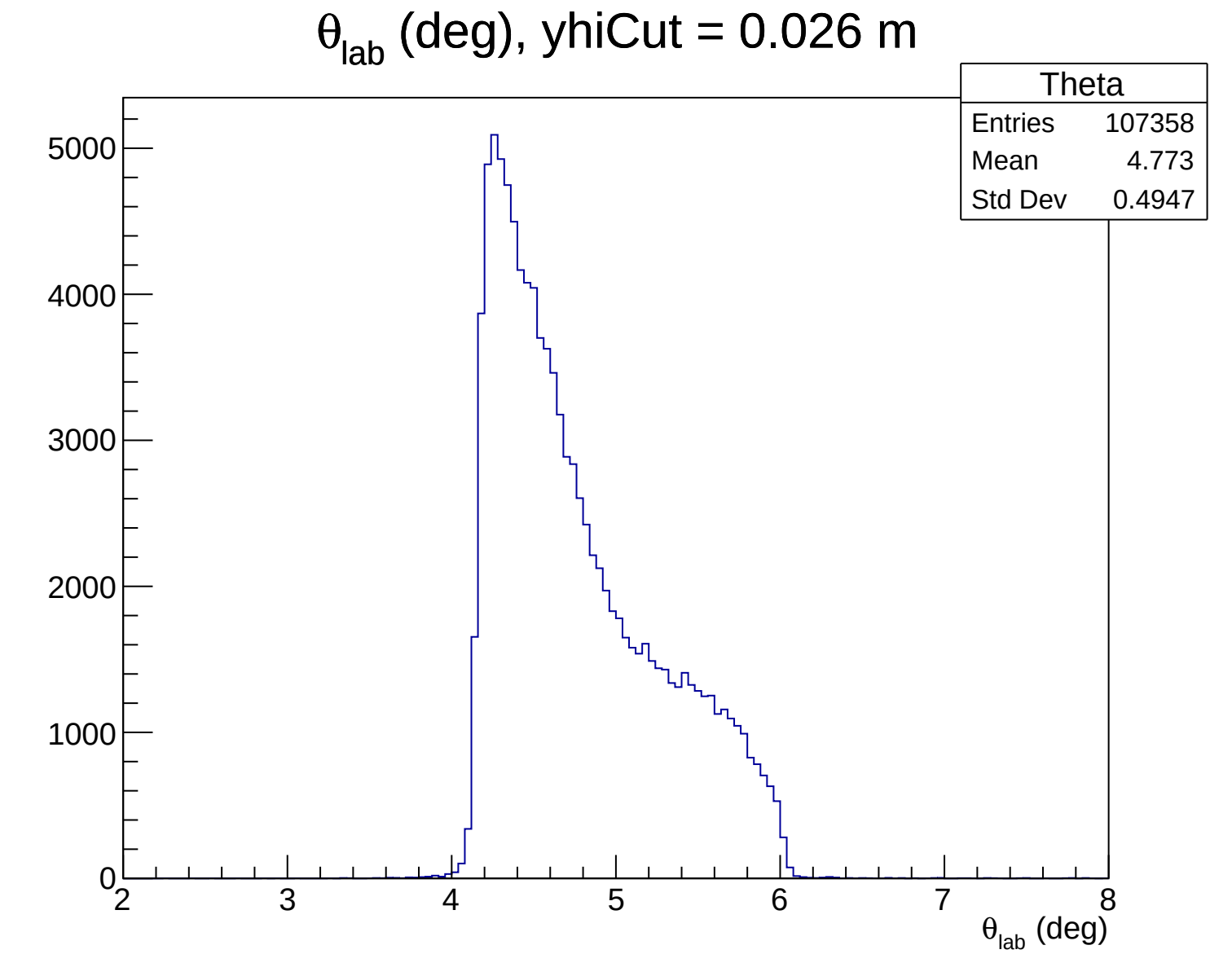

Sensitivity, yhiCut = 0.024 m
sens
Entries 106726
Mean 0.02213
Std Dev 0.00424
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

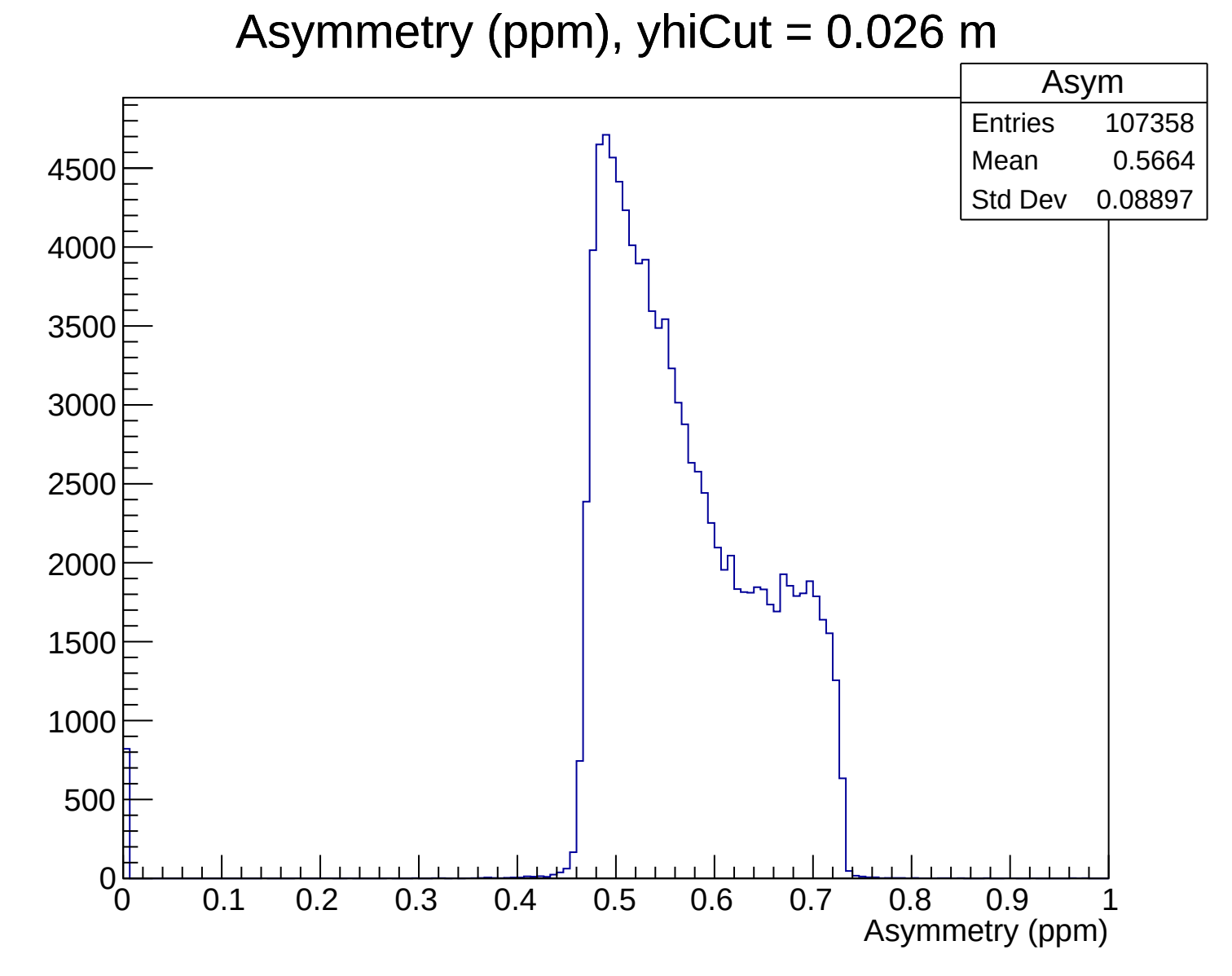

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

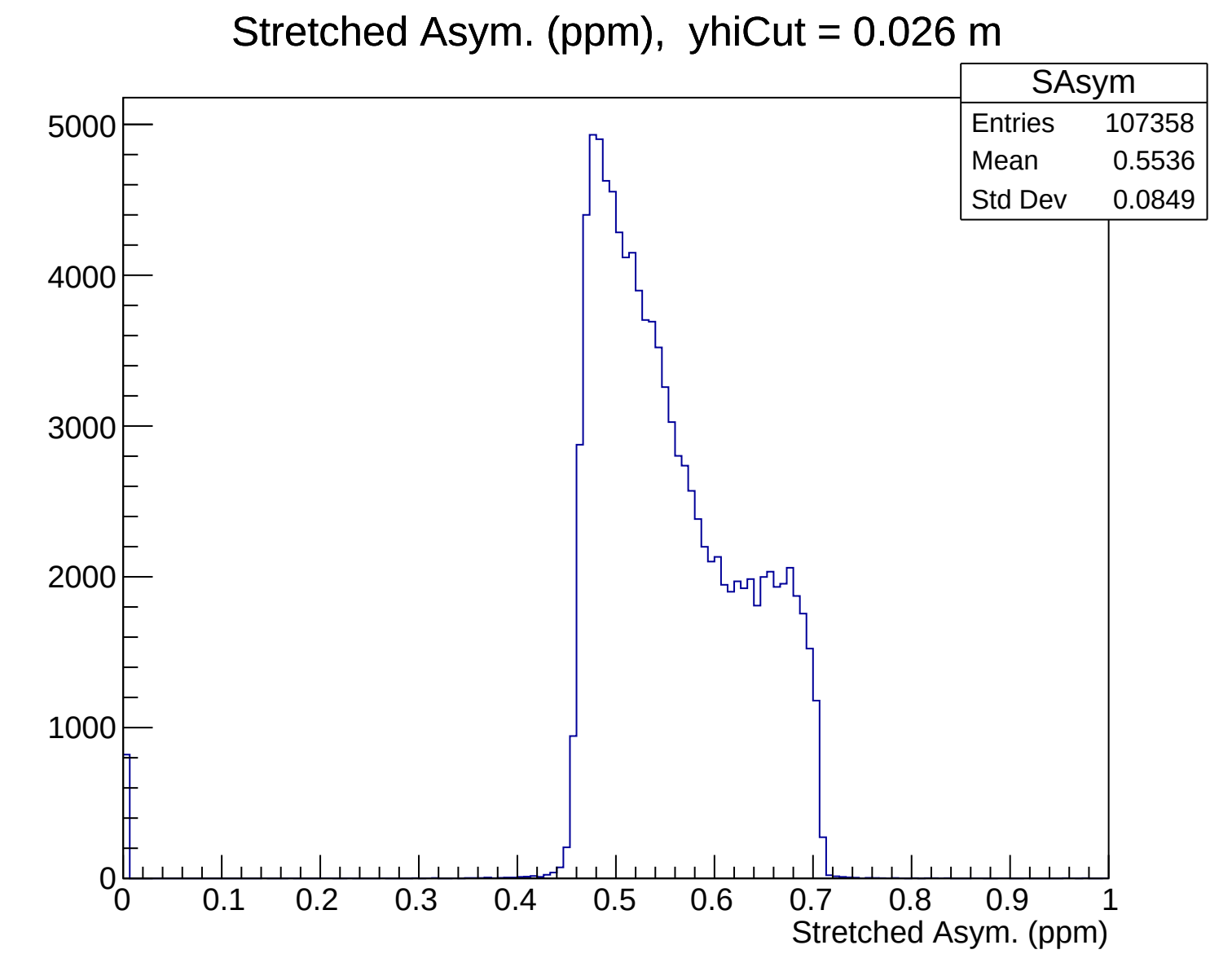

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.026
R.tr.y[0]+1.3*R.tr.ph[0] (m)

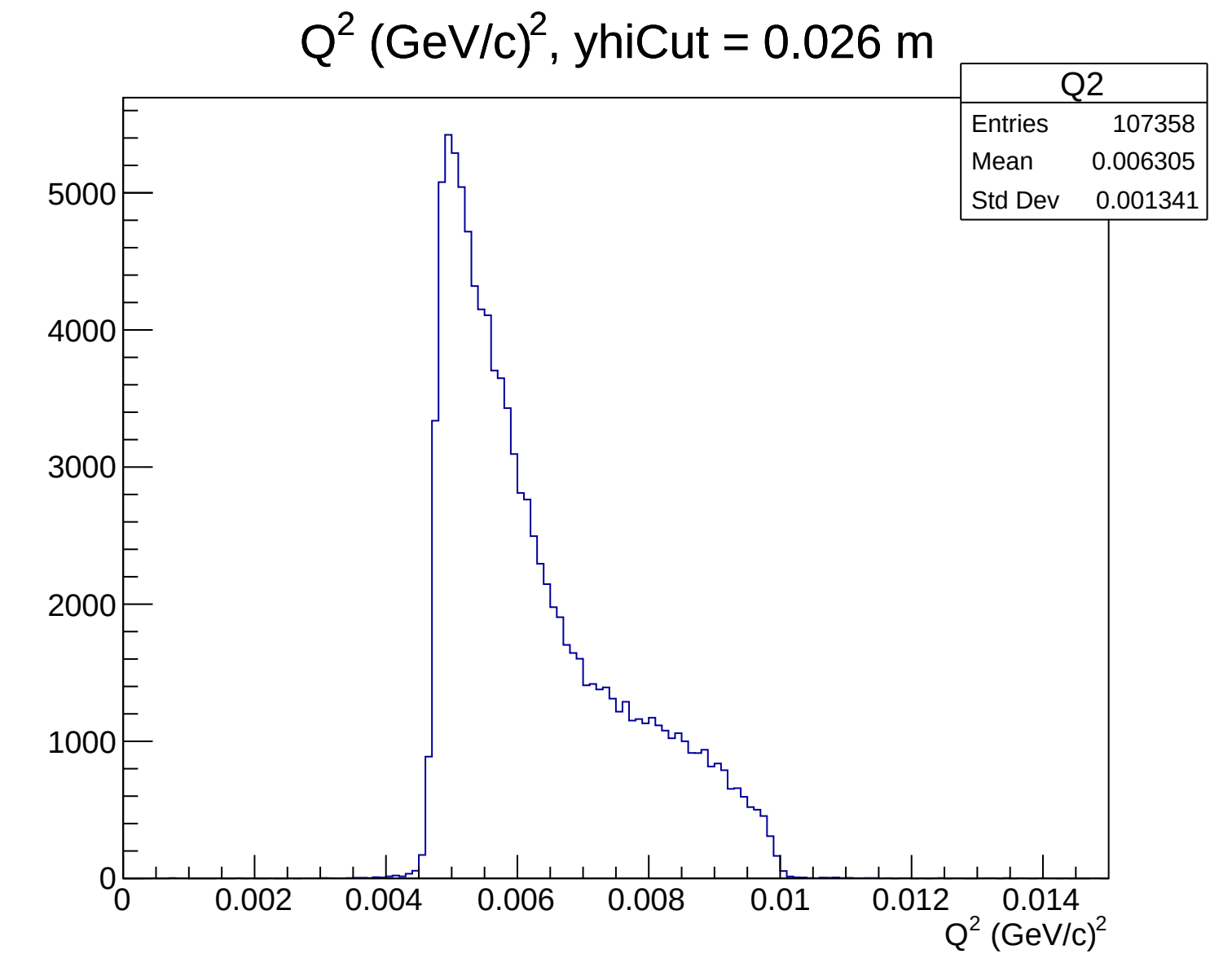

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

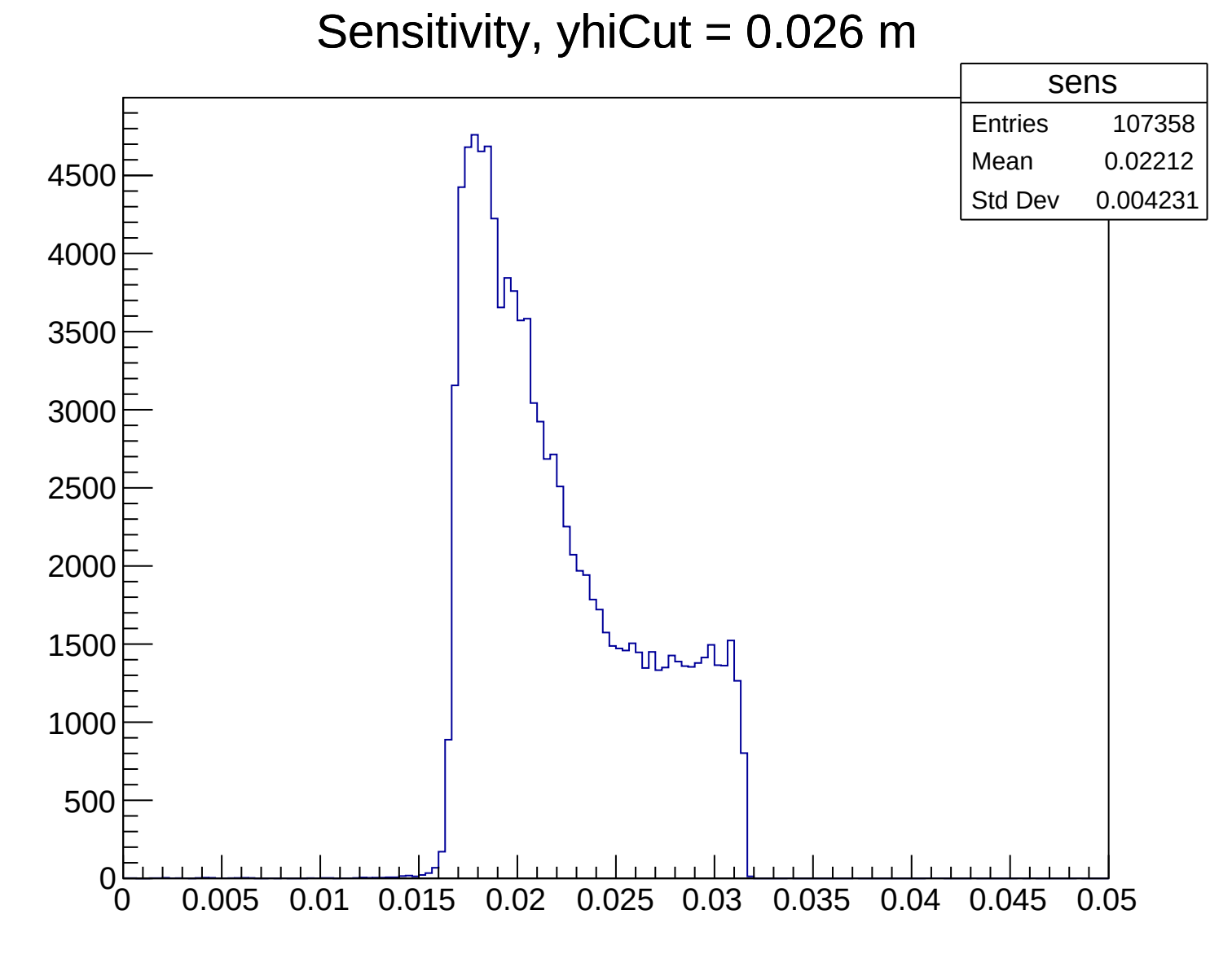

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

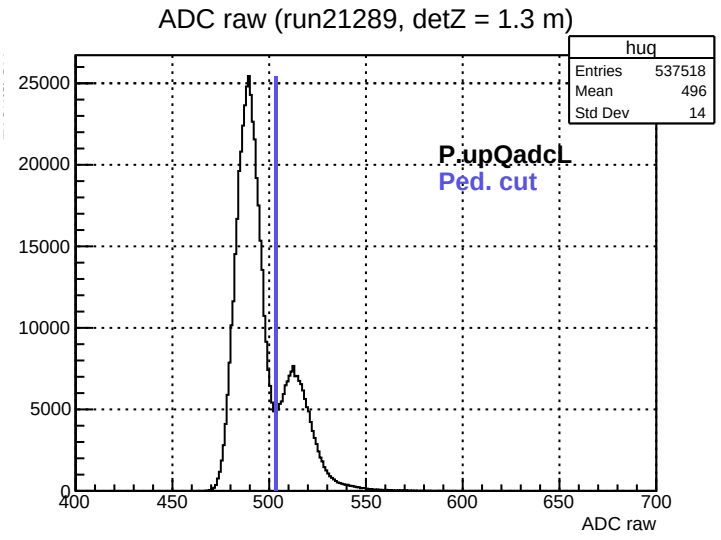

θlab (deg), yhiCut = 0.026 m
Theta
Entries 107358
Mean 4.773
Std Dev 0.4947
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

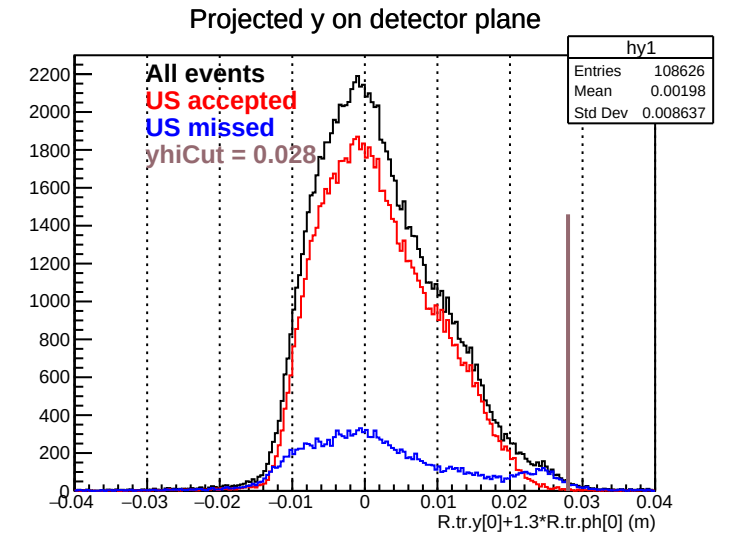

Asymmetry (ppm), yhiCut = 0.026 m
Asym
Entries 107358
Mean 0.5664
Std Dev 0.08897
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

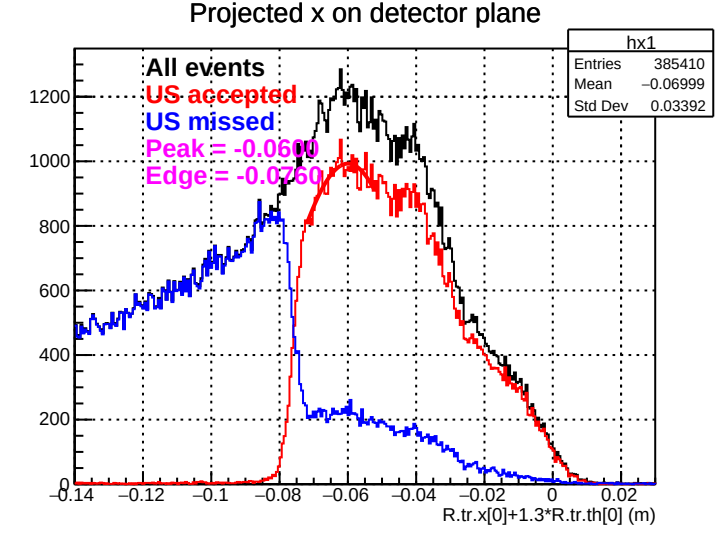

Stretched Asym. (ppm), yhiCut = 0.026 m
SAsym
Entries 107358
Mean 0.5536
Std Dev 0.0849
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

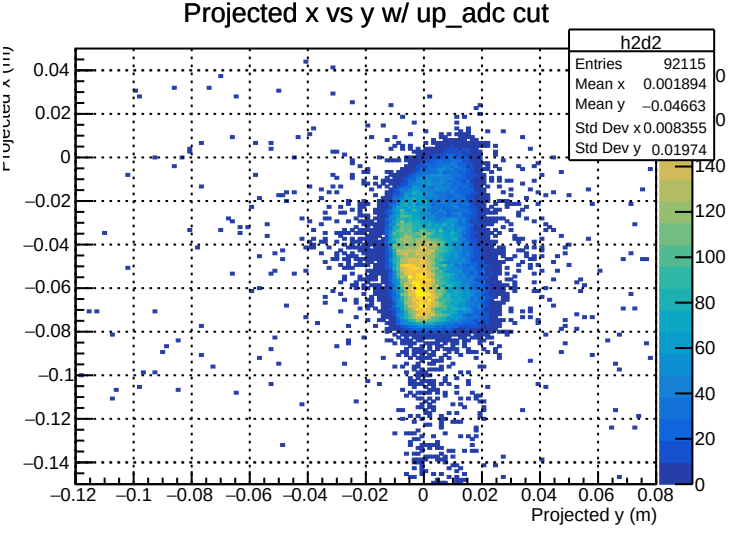

Q^2 (GeV/c)^2, yhiCut = 0.026 m
Q2
Entries 107358
Mean 0.006305
Std Dev 0.001341
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

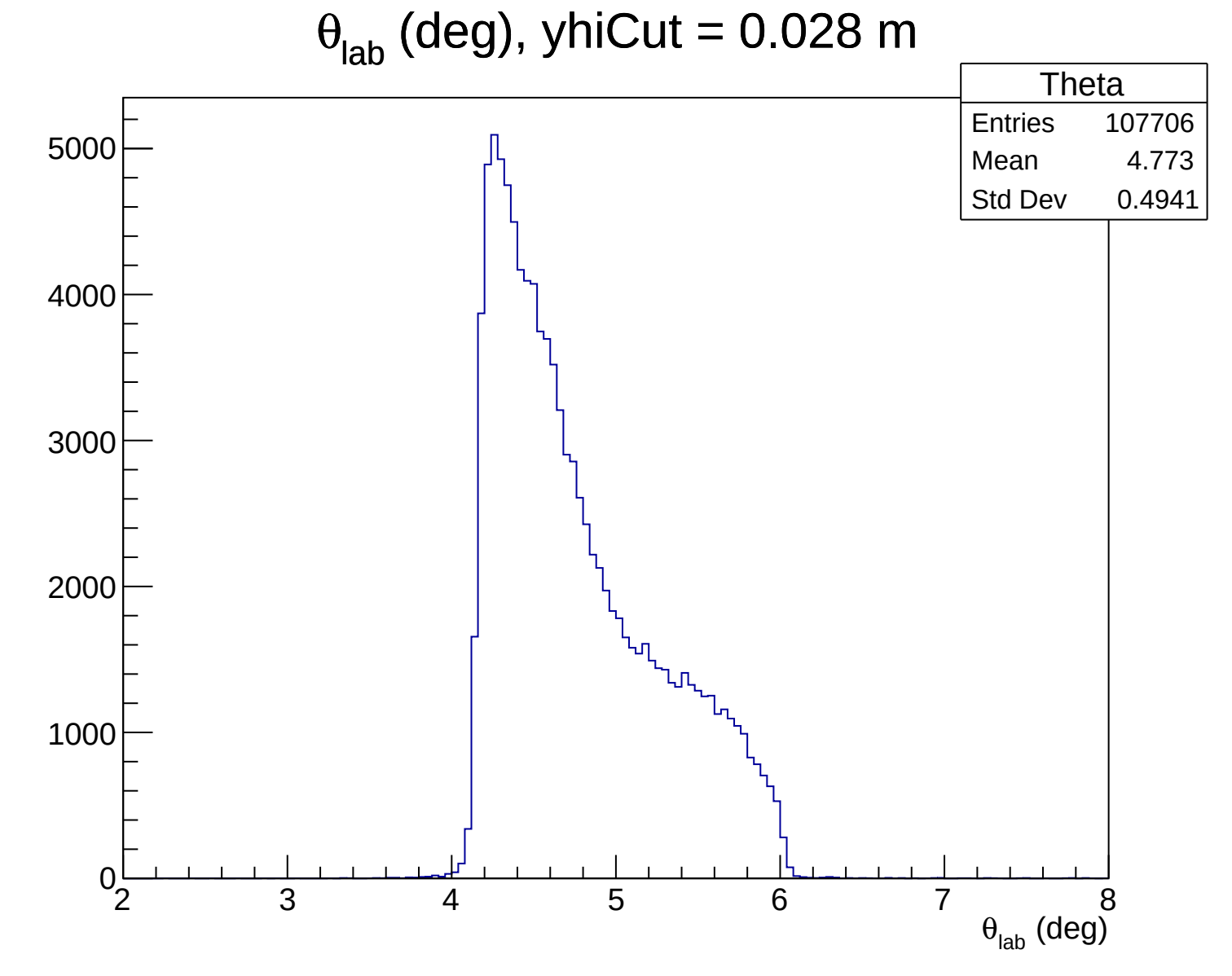

Sensitivity, yhiCut = 0.026 m
sens
Entries 107358
Mean 0.02212
Std Dev 0.004231
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

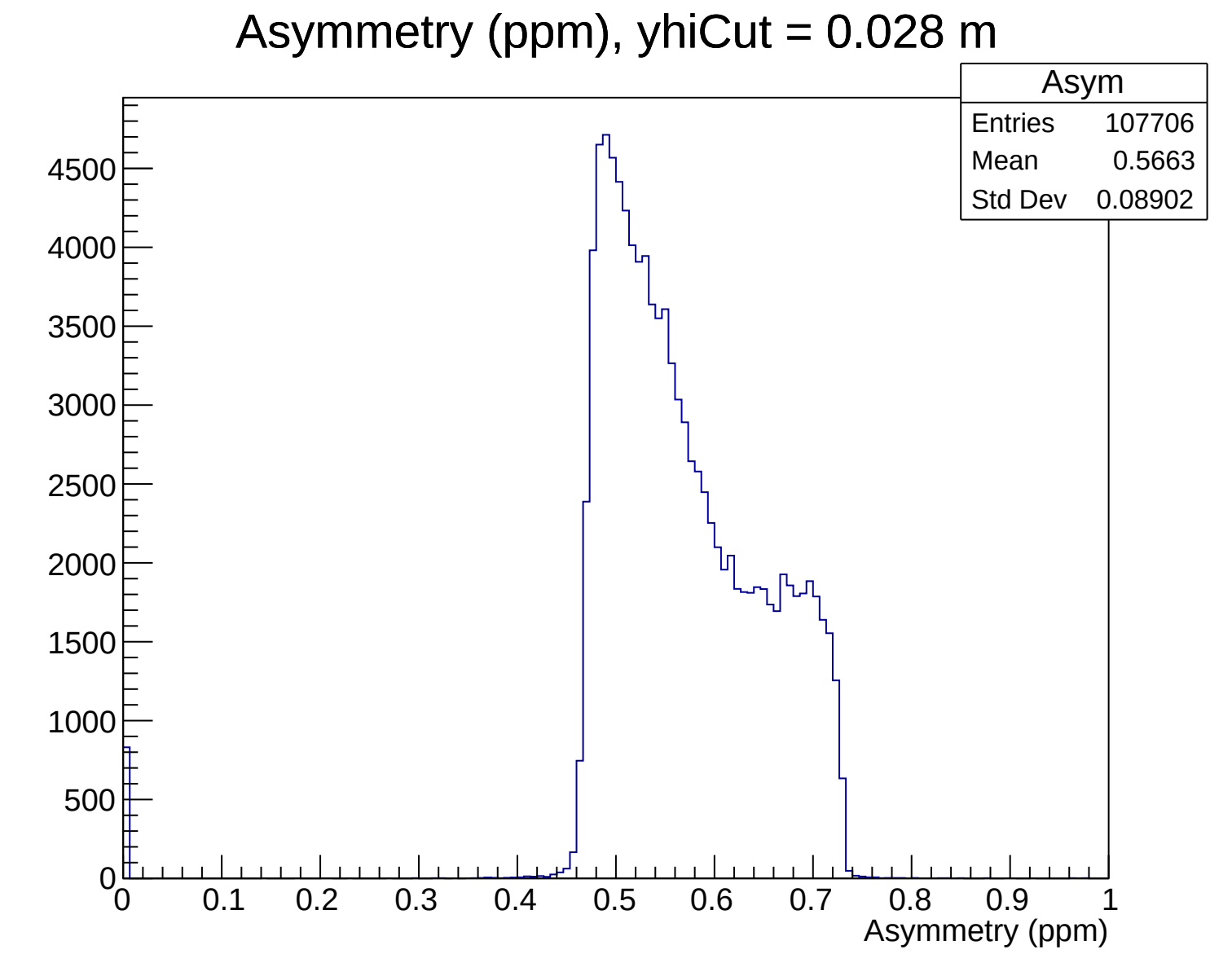

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

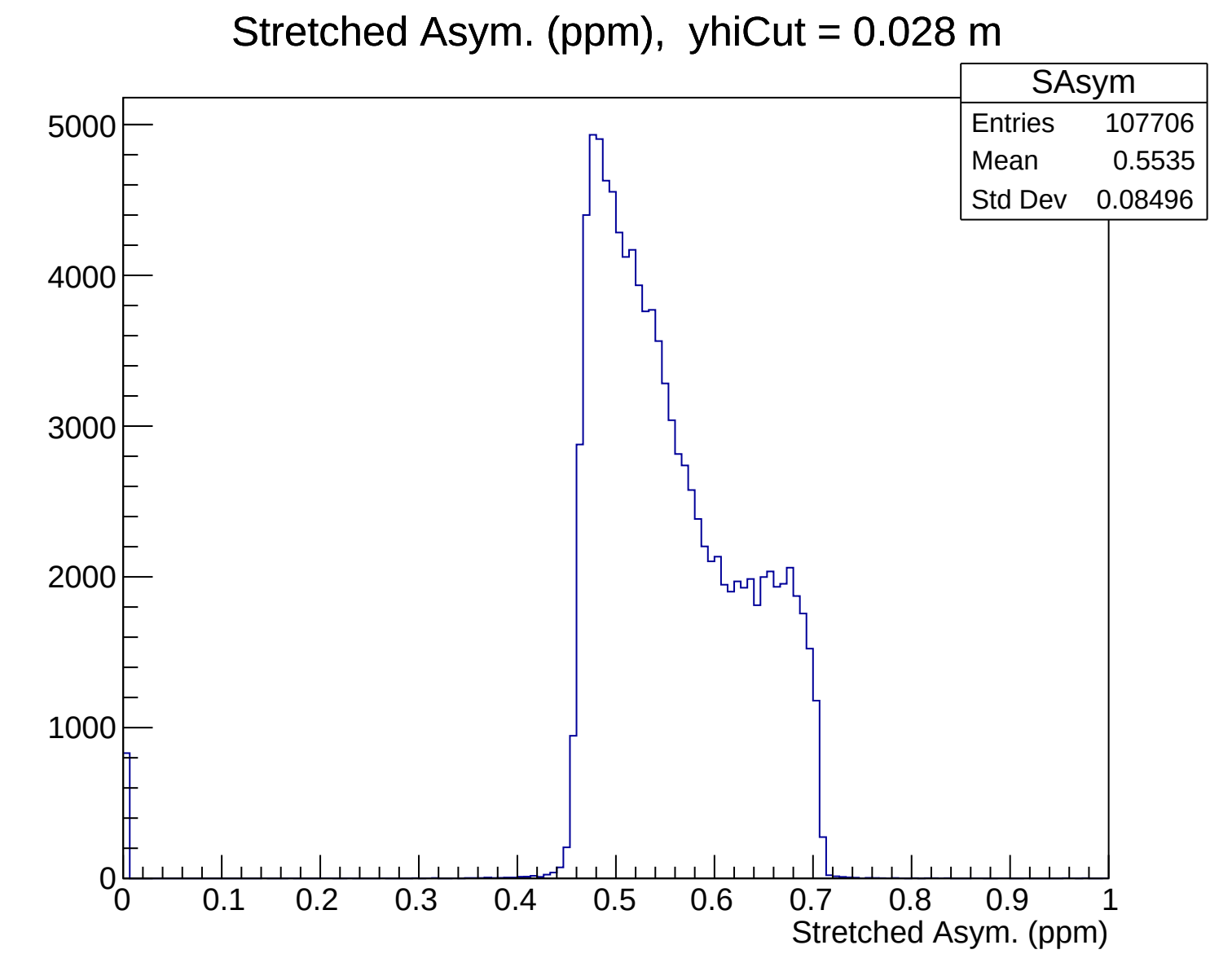

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.028
R.tr.y[0]+1.3*R.tr.ph[0] (m)

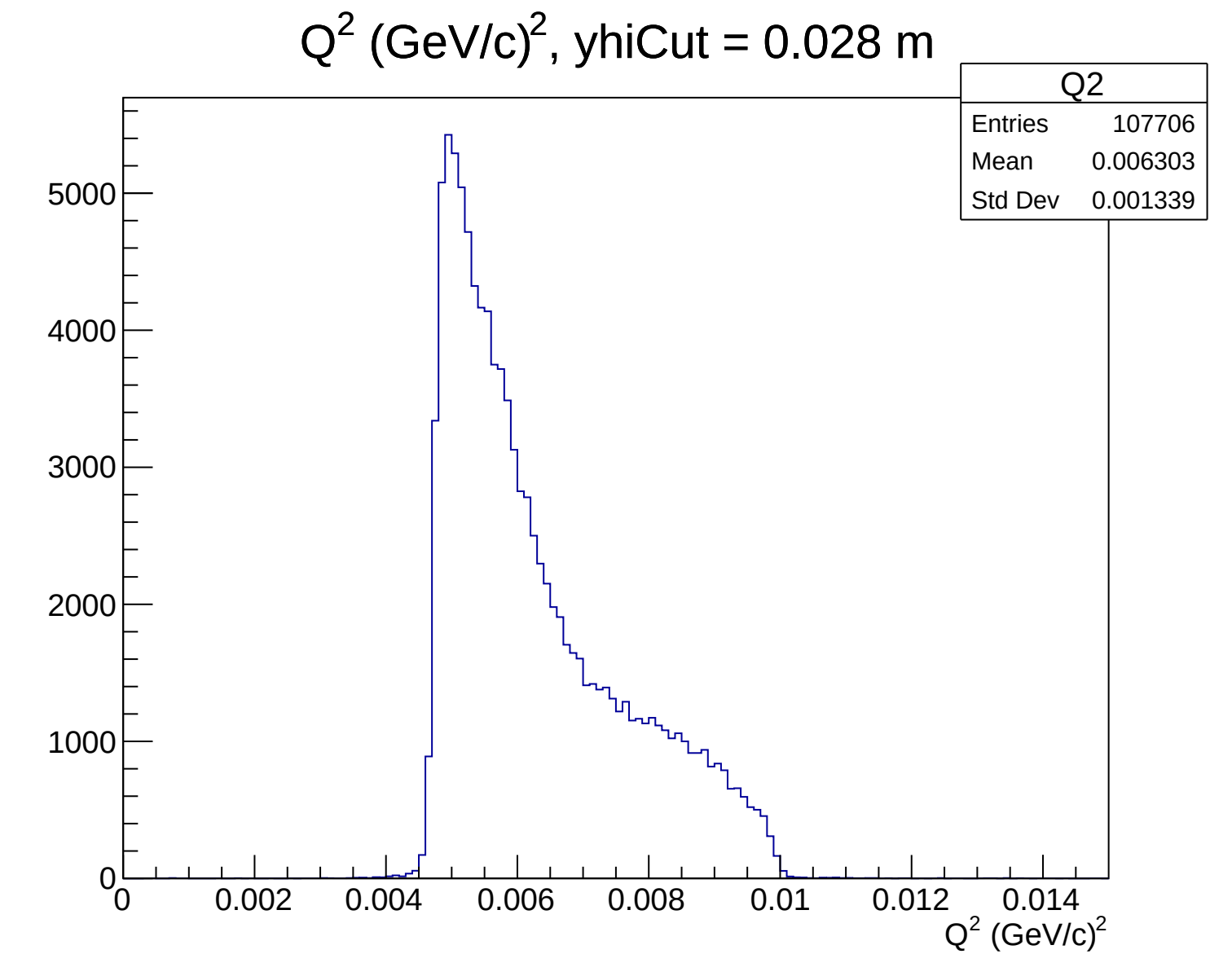

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

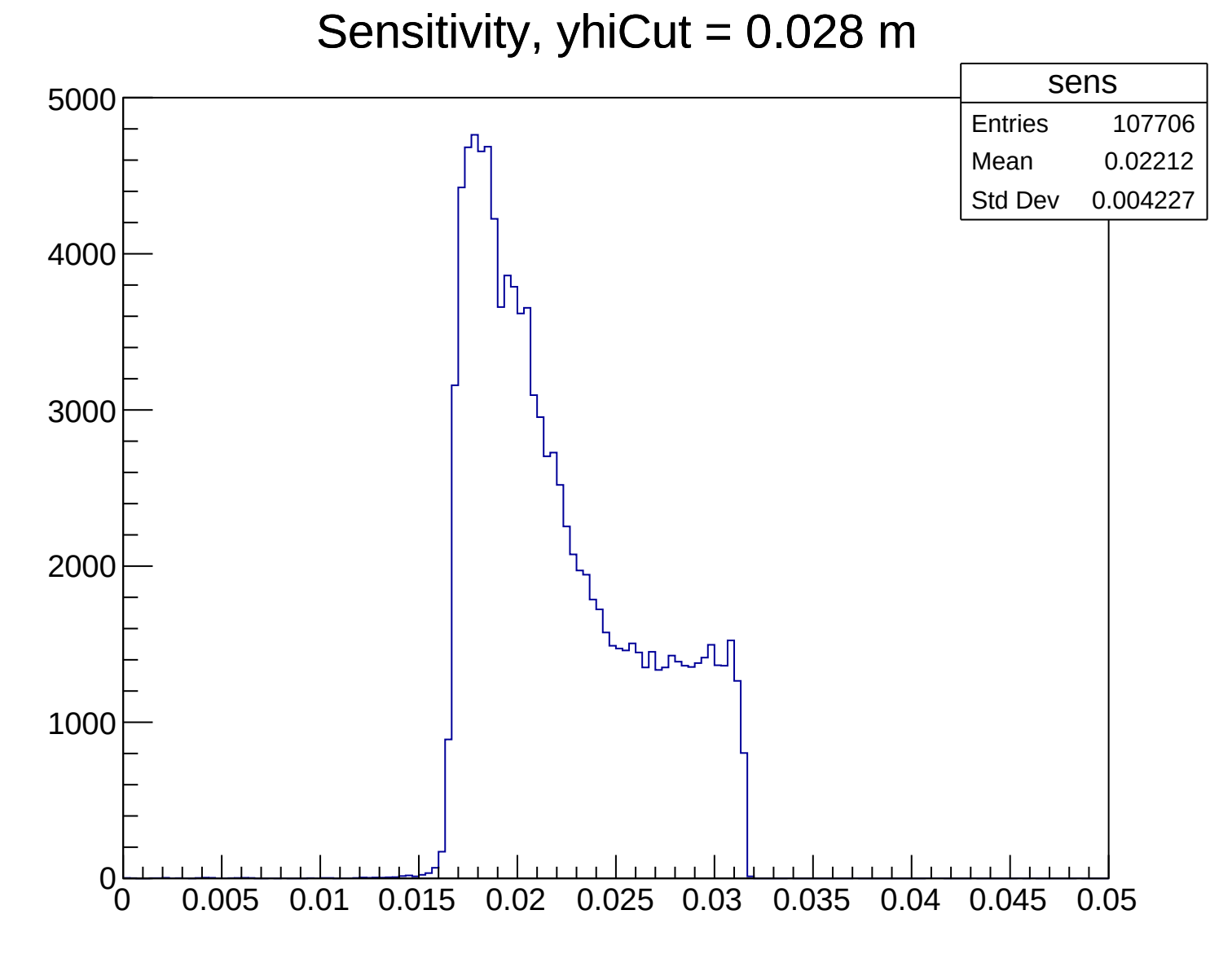

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

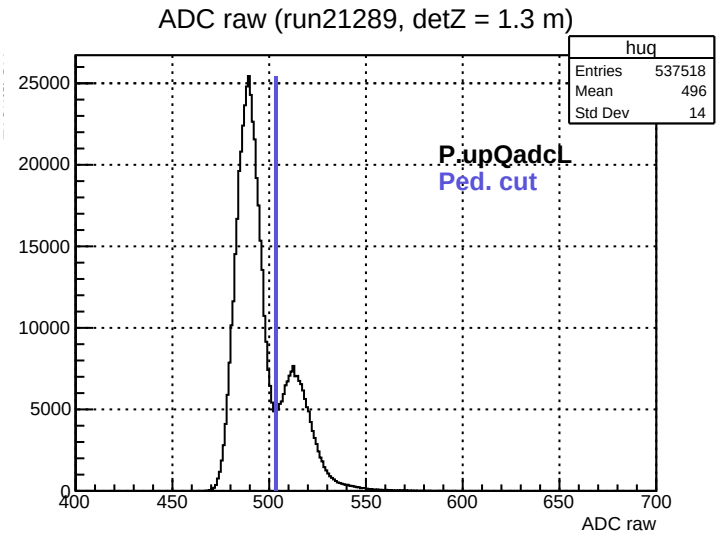

θlab (deg), yhiCut = 0.028 m
Theta
Entries 107706
Mean 4.773
Std Dev 0.4941
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

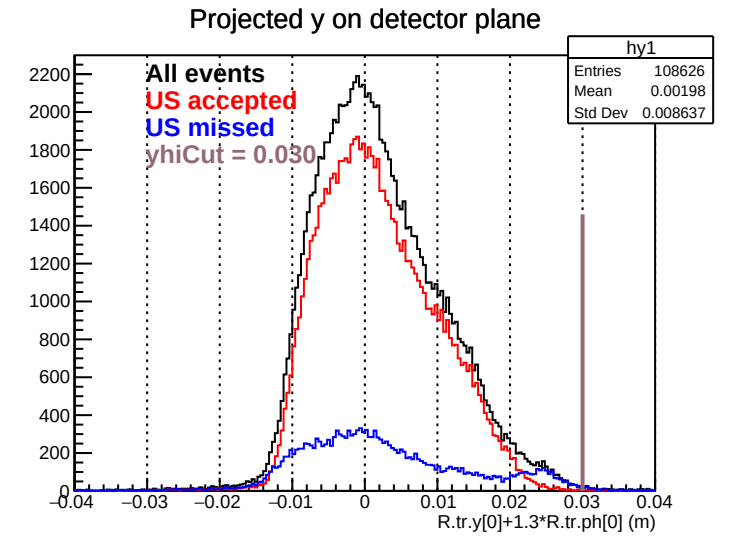

Asymmetry (ppm), yhiCut = 0.028 m
Asym
Entries 107706
Mean 0.5663
Std Dev 0.08902
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

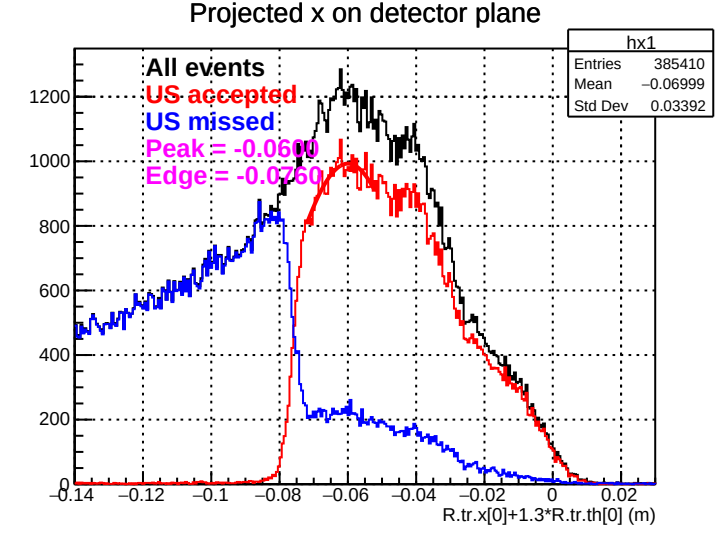

Stretched Asym. (ppm), yhiCut = 0.028 m
SAsym
Entries 107706
Mean 0.5535
Std Dev 0.08496
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

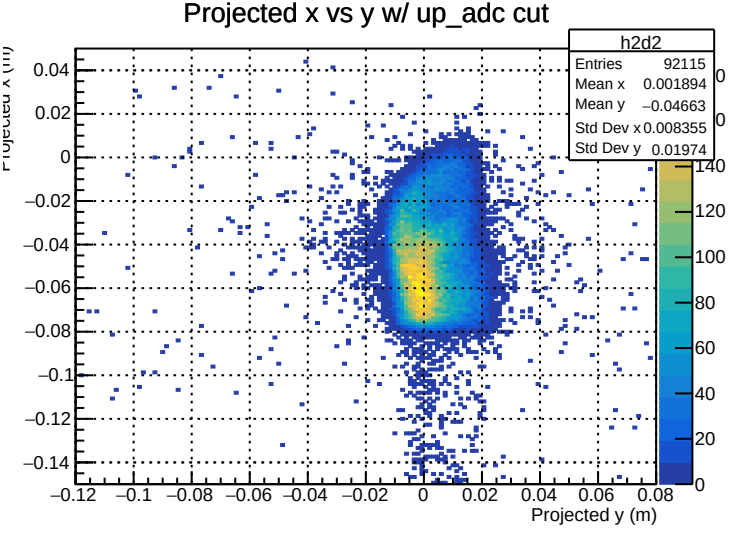

Q^2 (GeV/c)^2, yhiCut = 0.028 m
Q2
Entries 107706
Mean 0.006303
Std Dev 0.001339
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

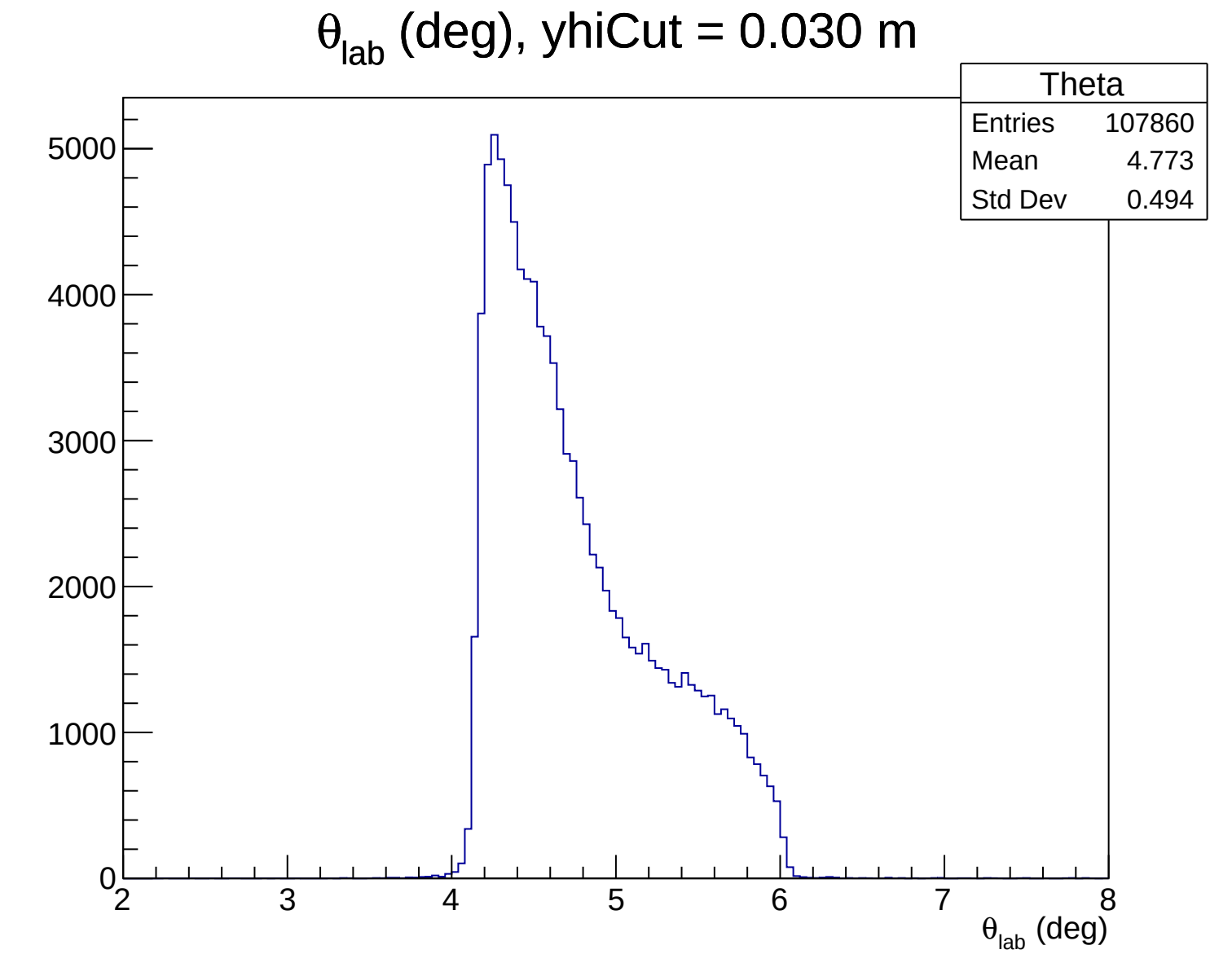

Sensitivity, yhiCut = 0.028 m
sens
Entries 107706
Mean 0.02212
Std Dev 0.004227
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

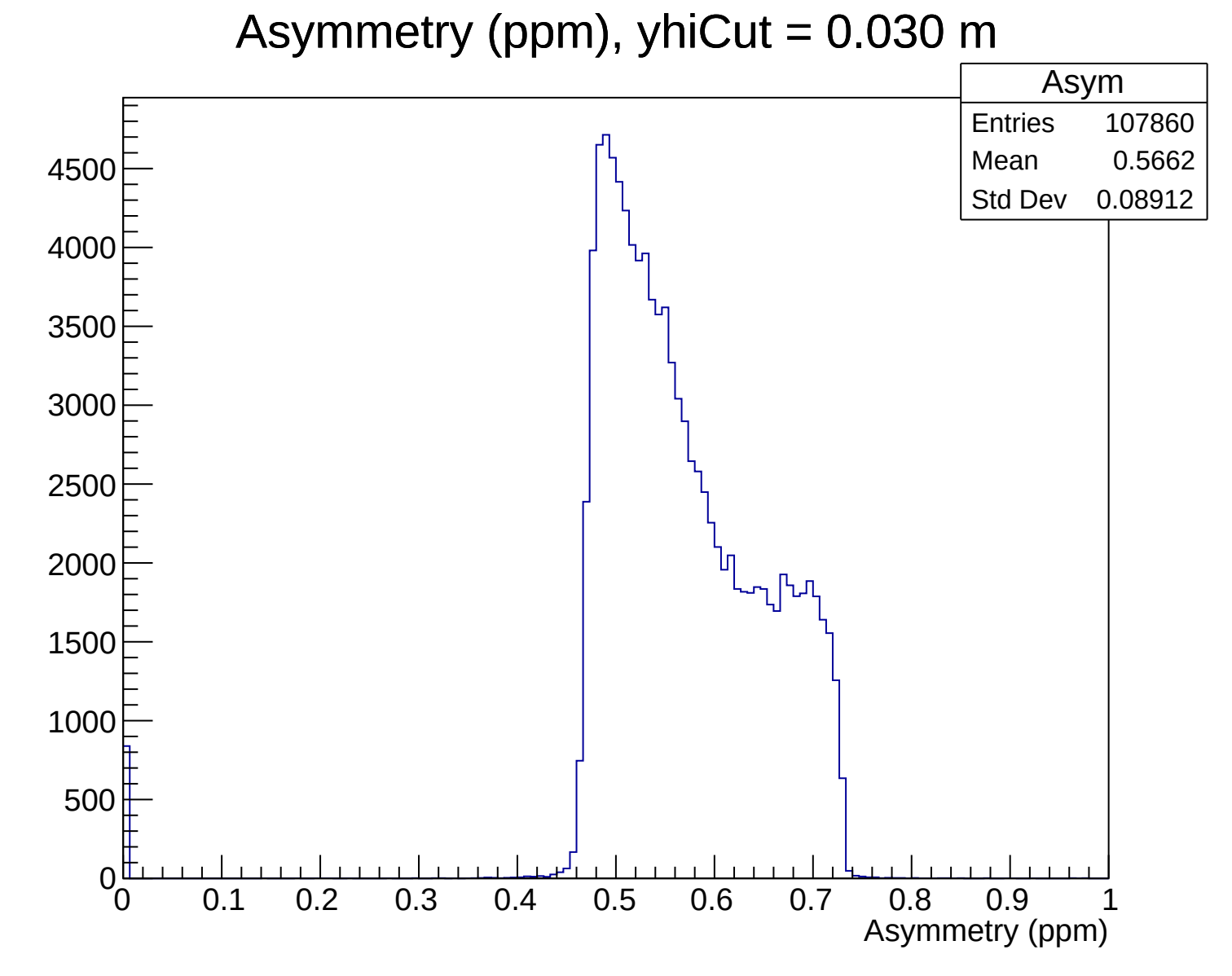

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

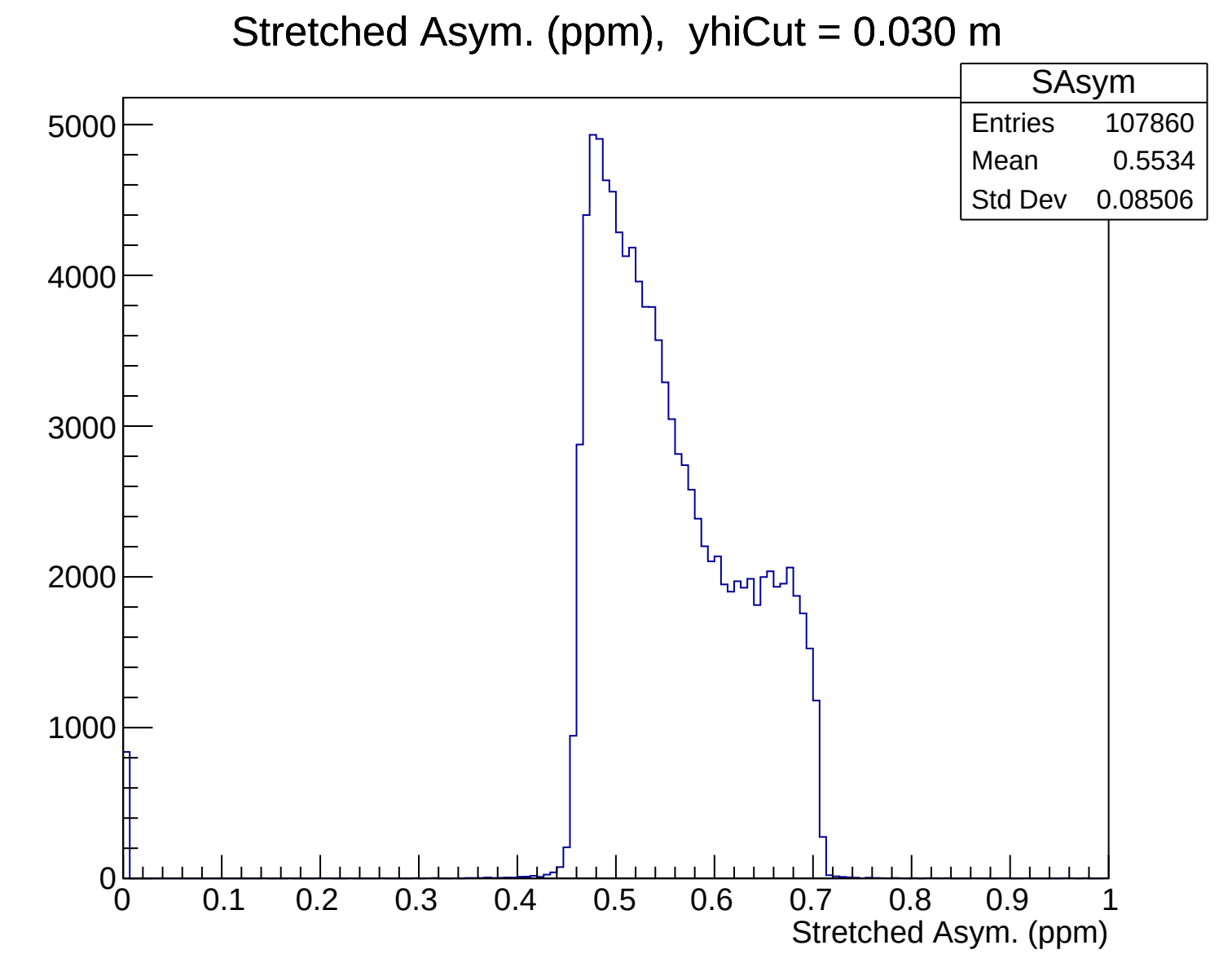

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.030
R.tr.y[0]+1.3*R.tr.ph[0] (m)

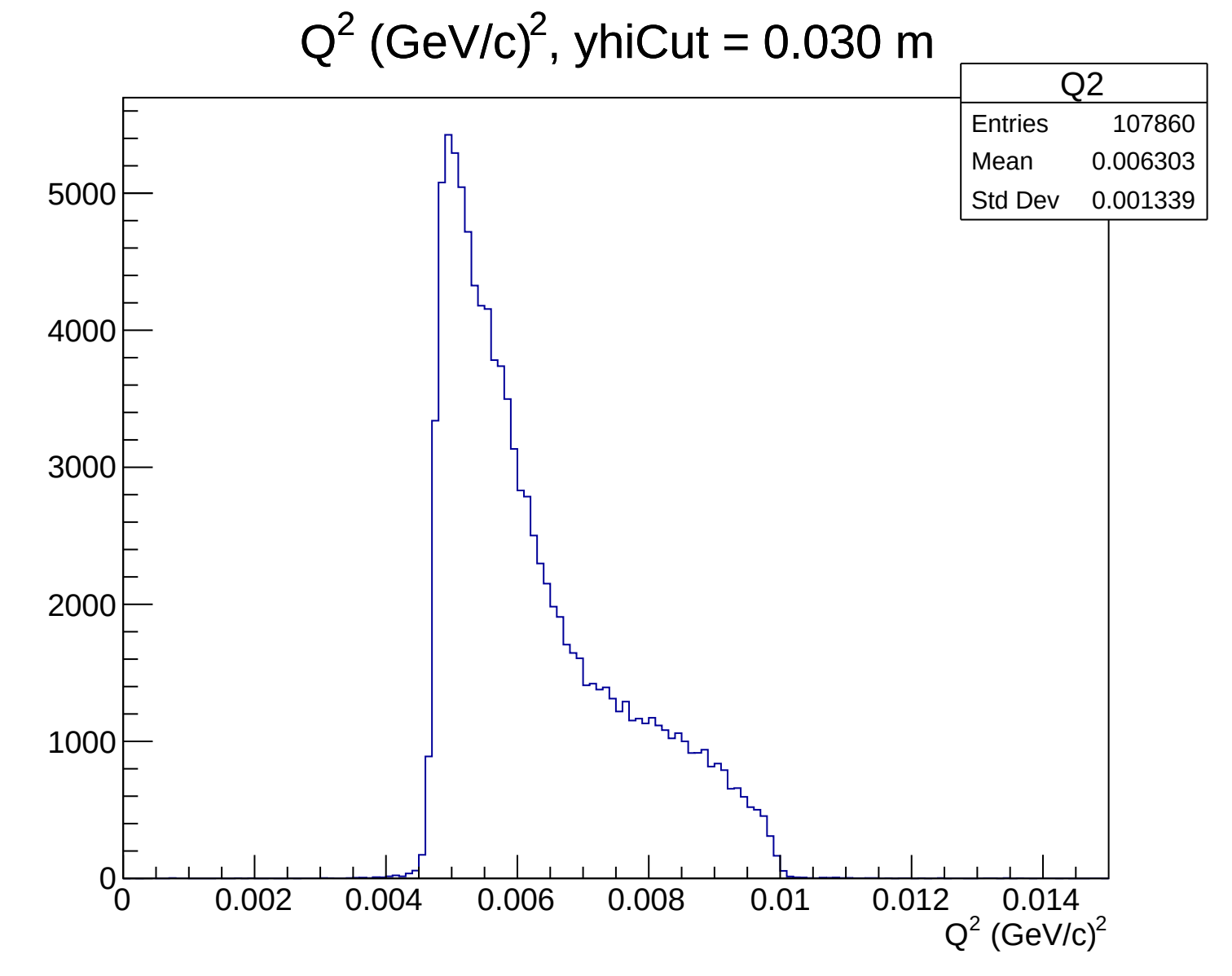

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

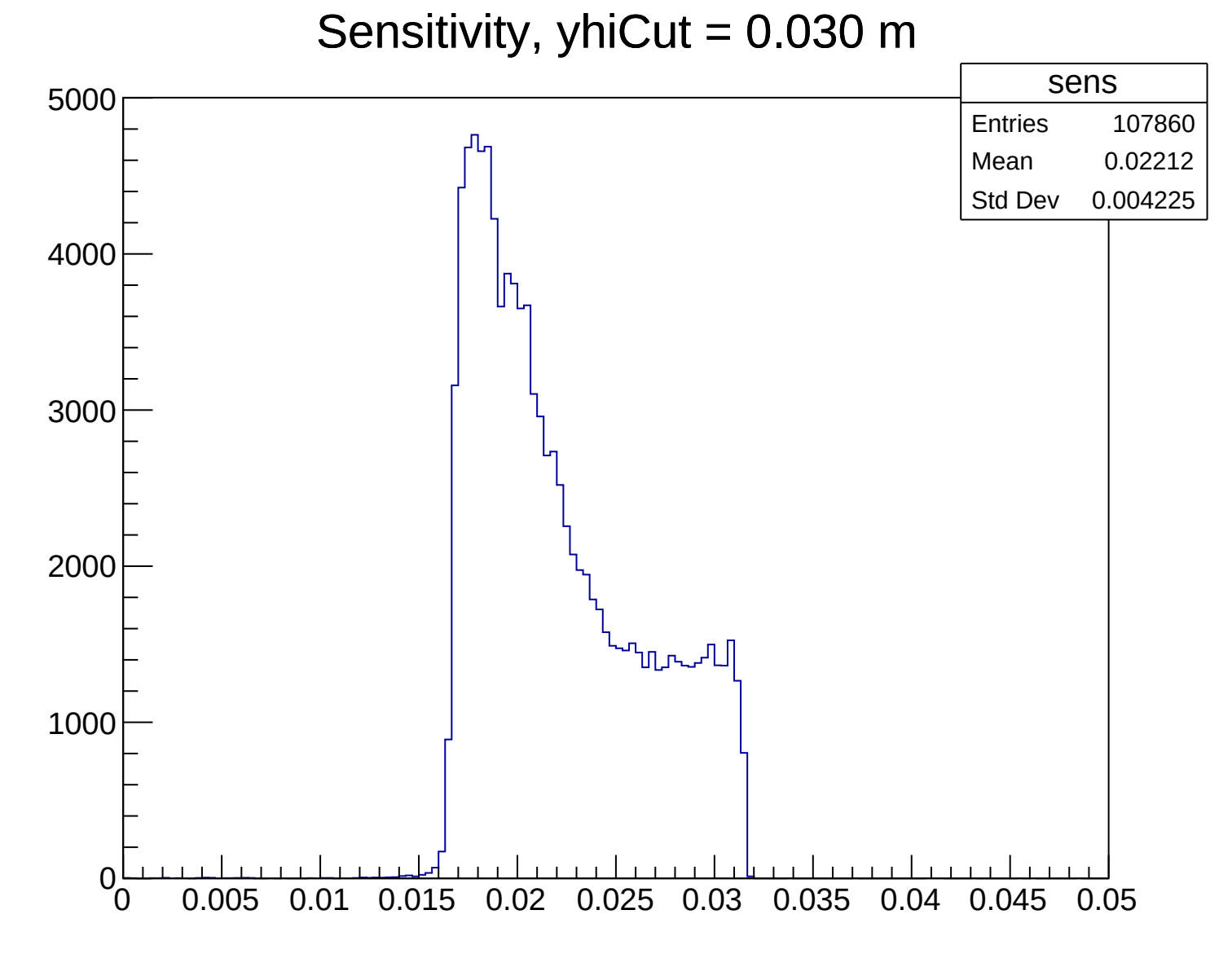

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

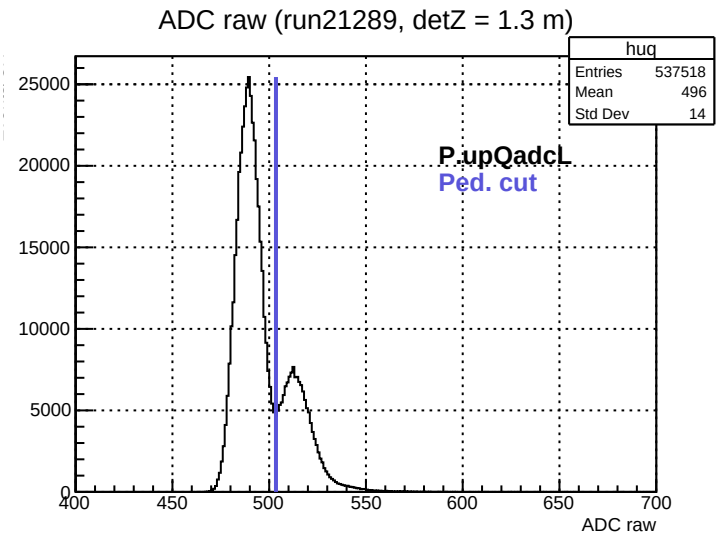

θlab (deg), yhiCut = 0.030 m
Theta
Entries 107860
Mean 4.773
Std Dev 0.494
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

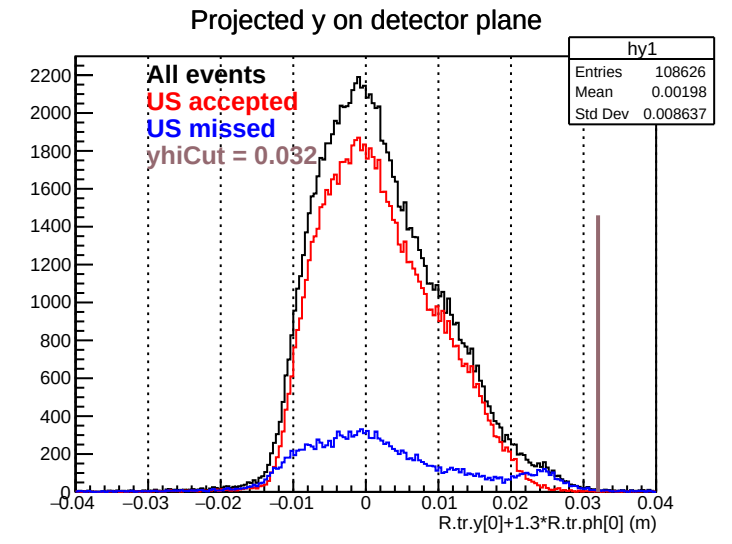

Asymmetry (ppm), yhiCut = 0.030 m
Asym
Entries 107860
Mean 0.5662
Std Dev 0.08912
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

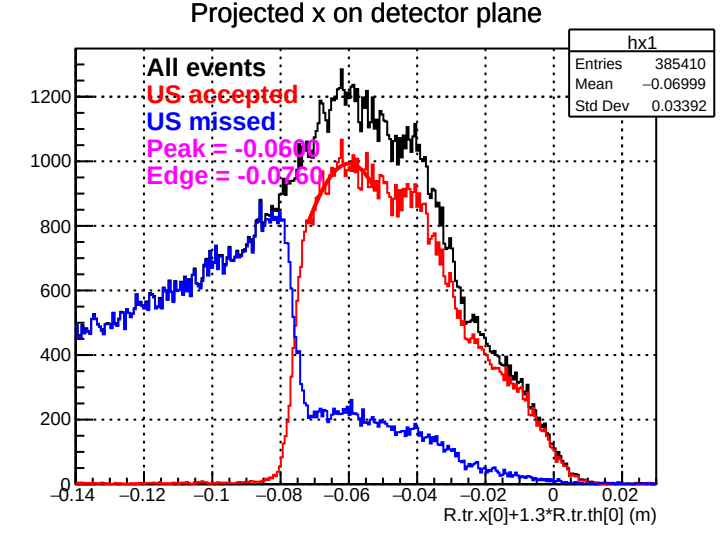

Stretched Asym. (ppm), yhiCut = 0.030 m
SAsym
Entries 107860
Mean 0.5534
Std Dev 0.08506
5000
4000
3000
2000
1000
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Stretched Asym. (ppm)

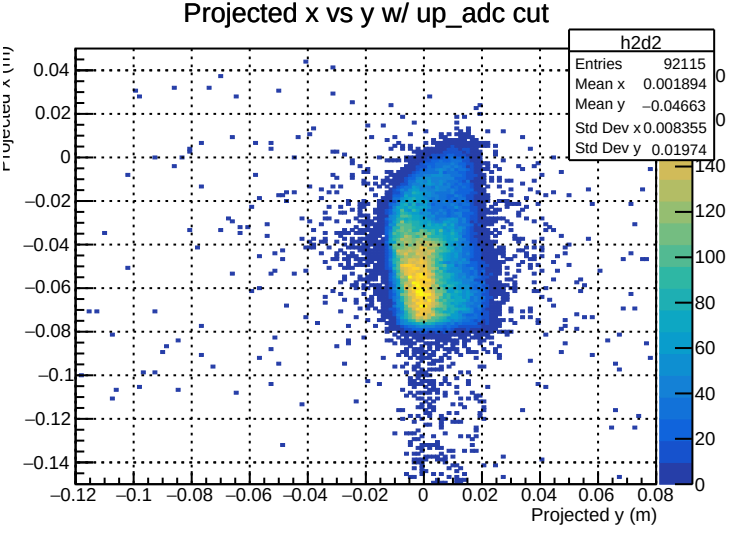

Q^2 (GeV/c)^2, yhiCut = 0.030 m
Q2
Entries 107860
Mean 0.006303
Std Dev 0.001339
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

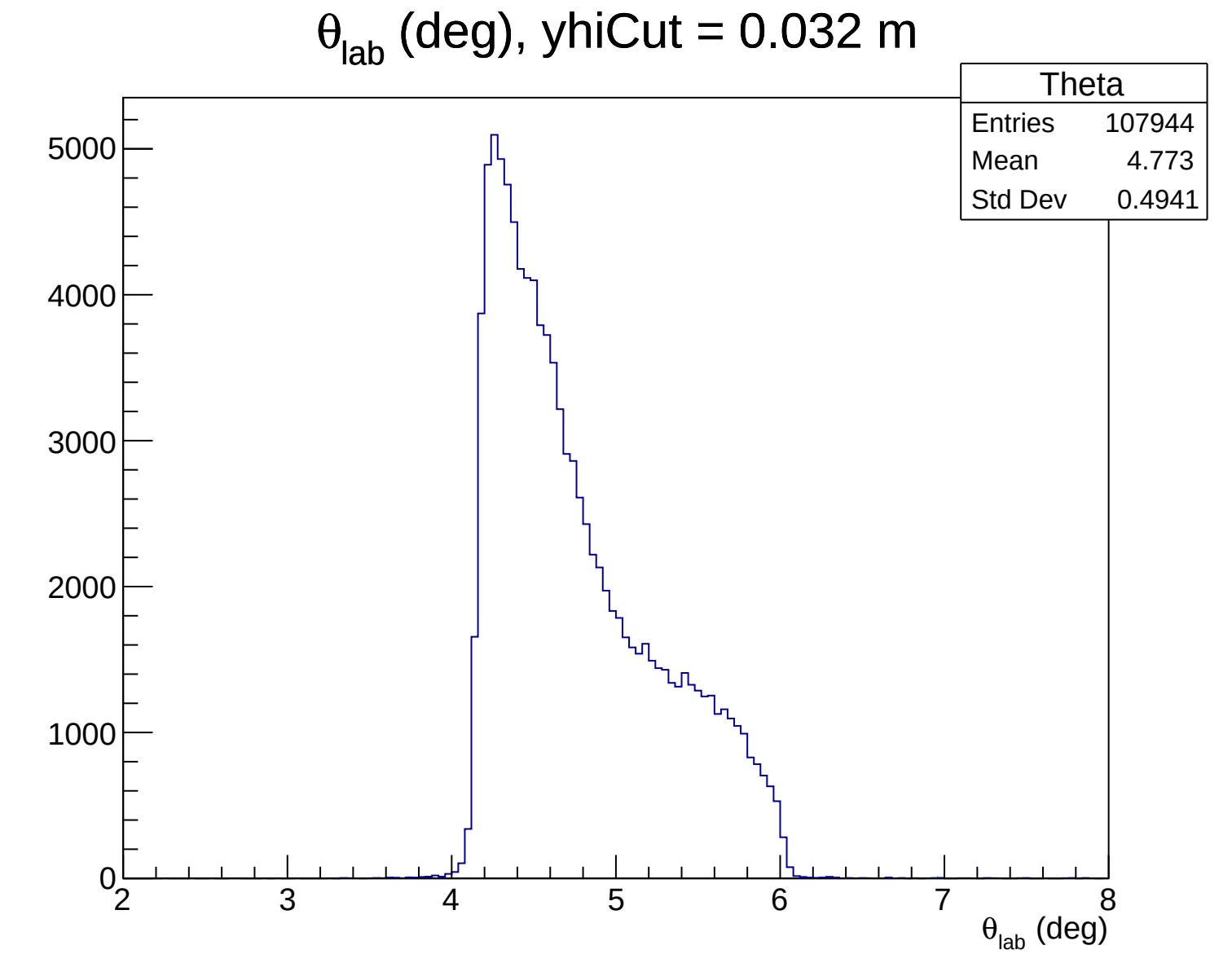

Sensitivity, yhiCut = 0.030 m
sens
Entries 107860
Mean 0.02212
Std Dev 0.004225
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

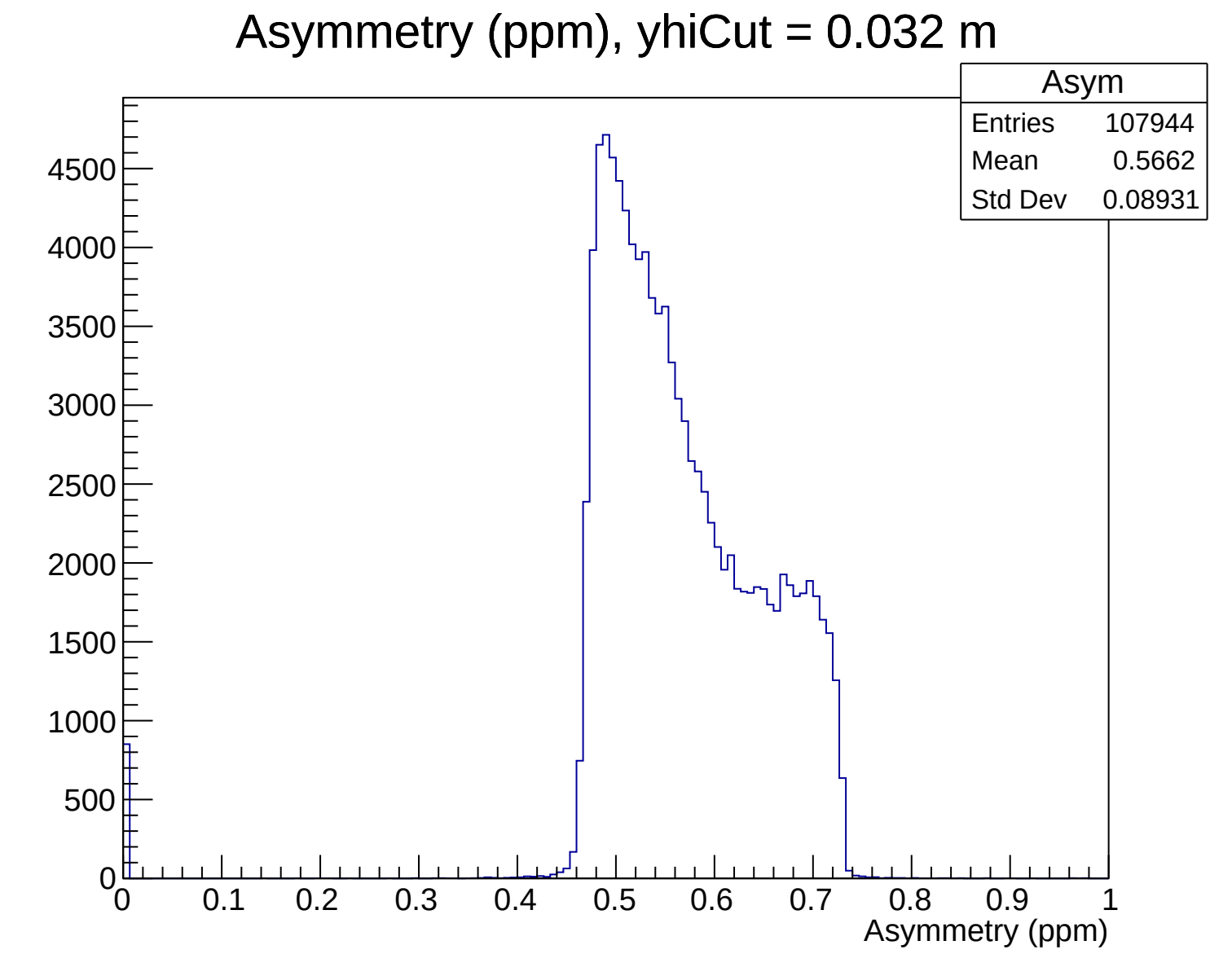

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

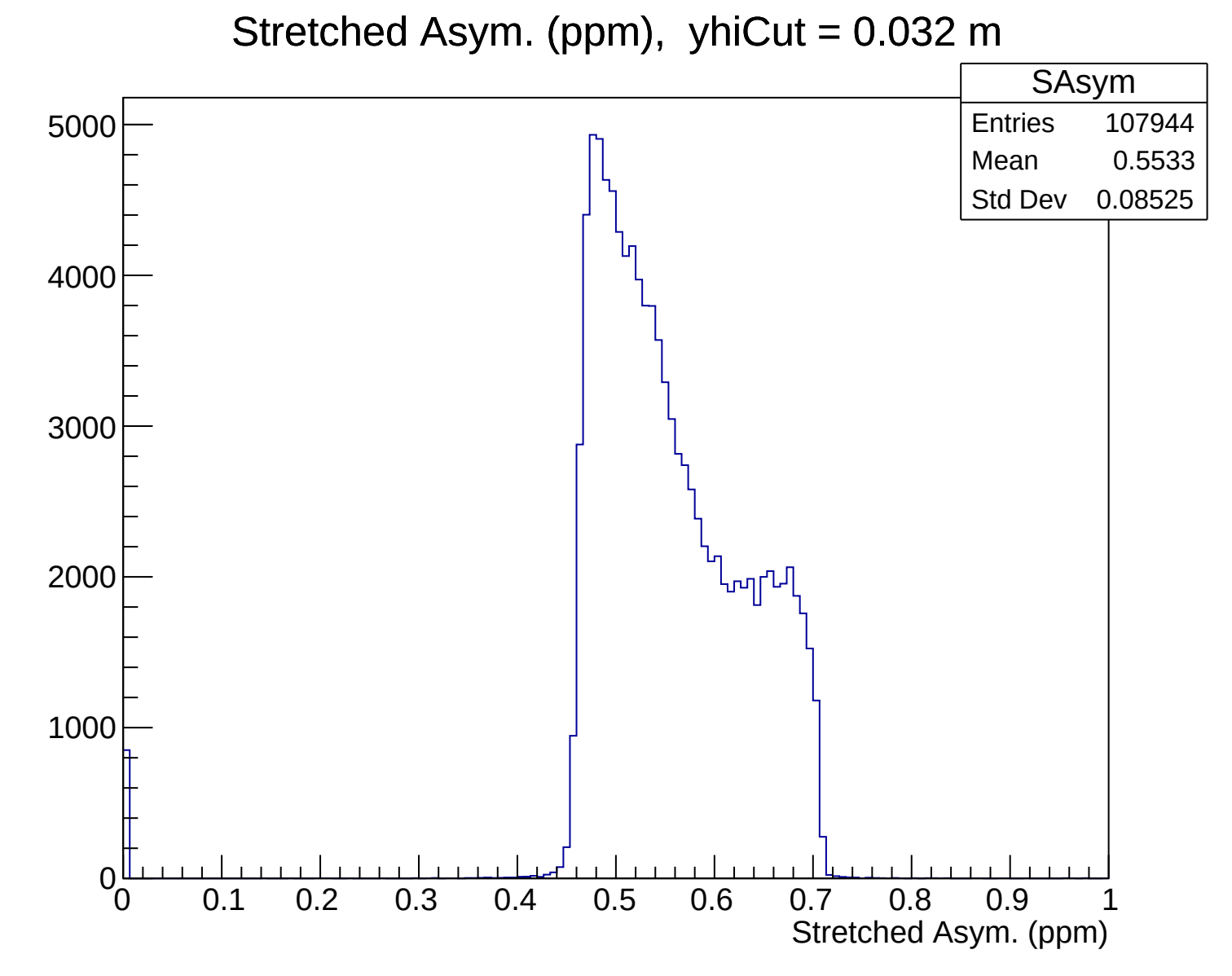

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.032
R.tr.y[0]+1.3*R.tr.ph[0] (m)

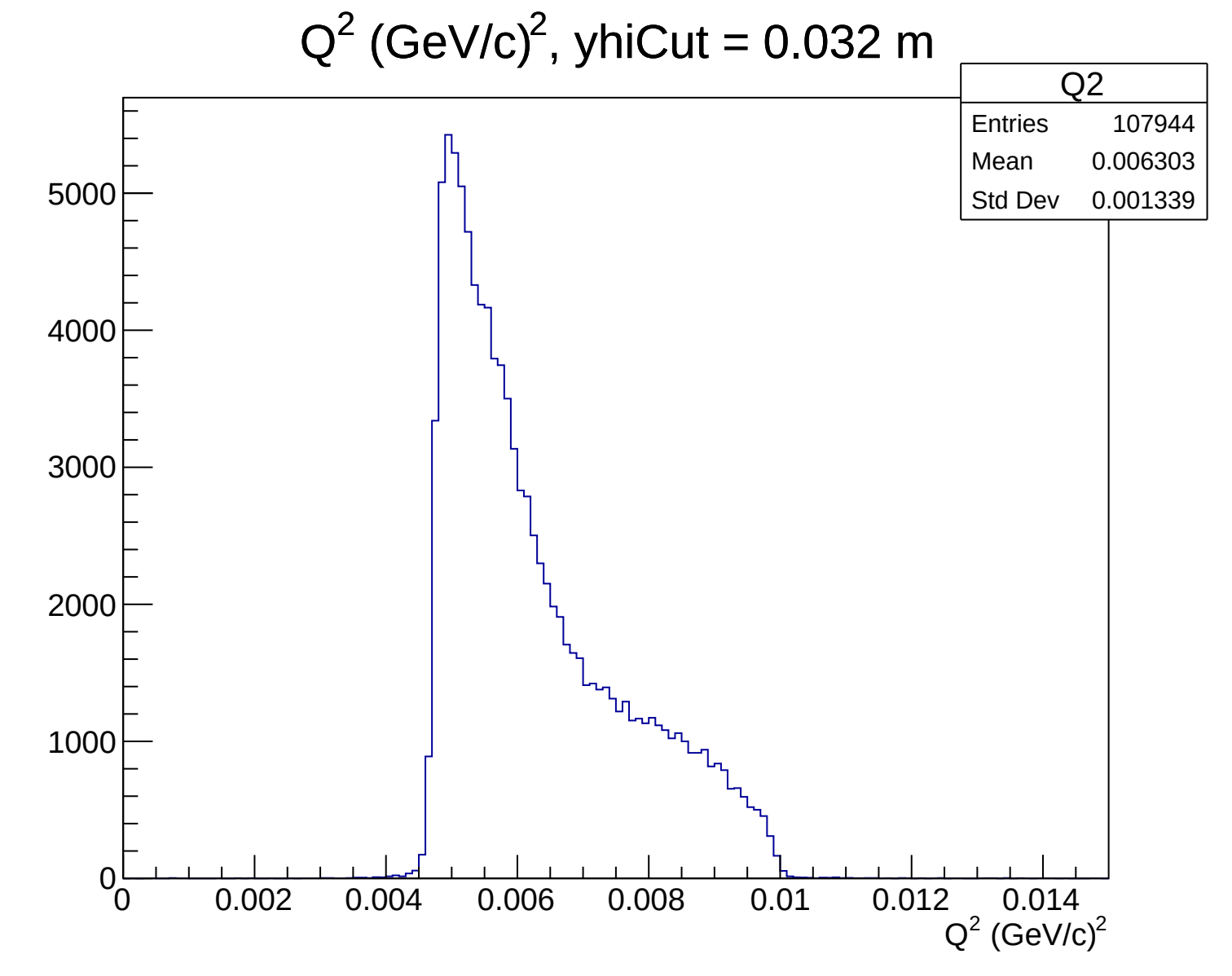

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

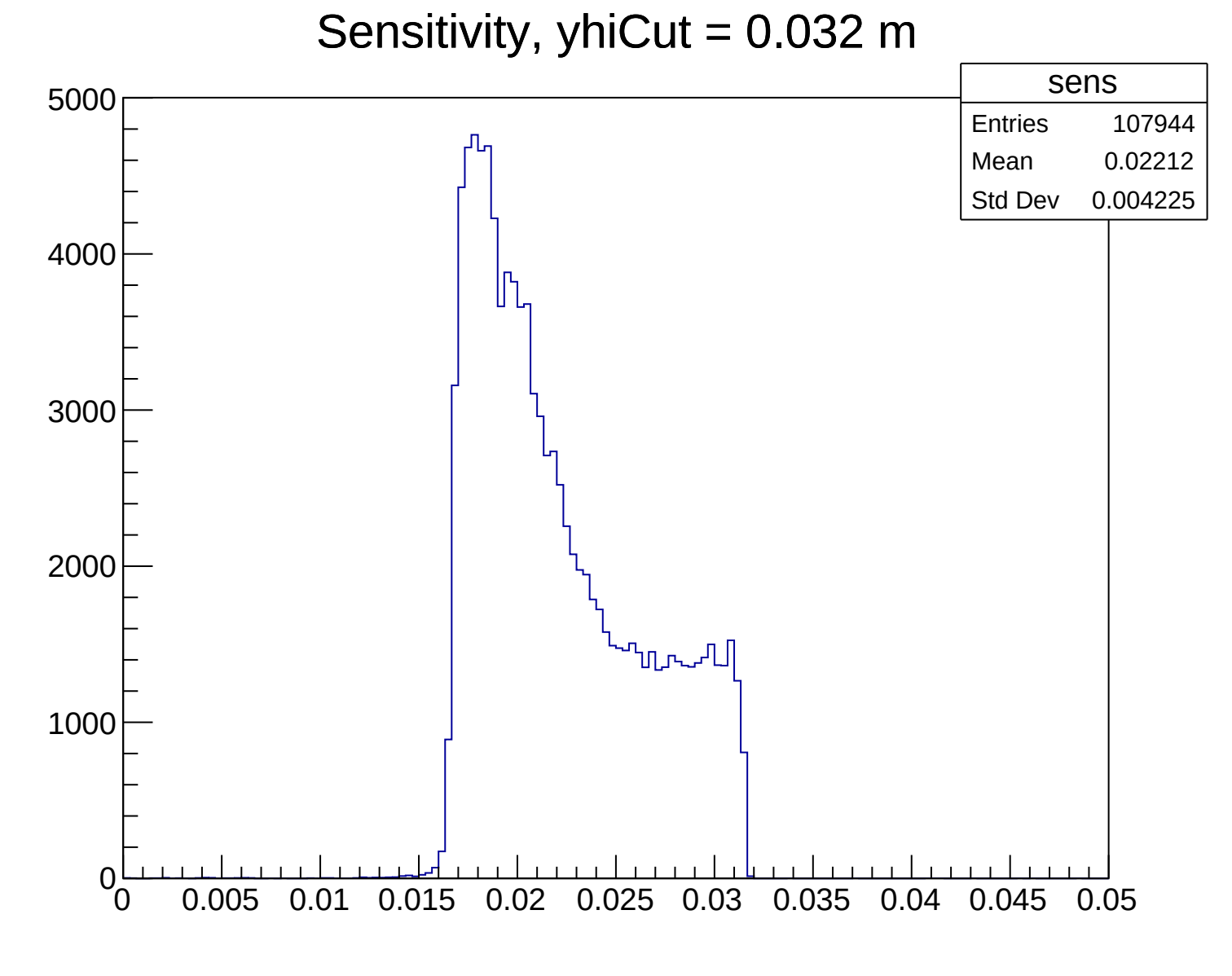

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

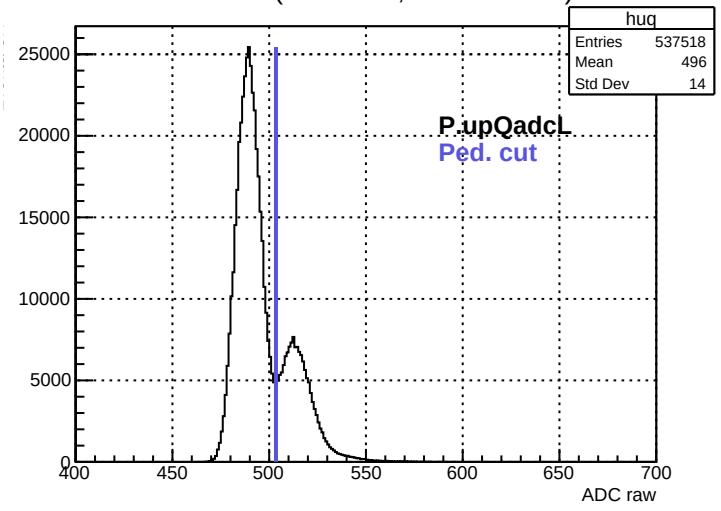

θlab (deg), yhiCut = 0.032 m
Theta
Entries 107944
Mean 4.773
Std Dev 0.4941
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

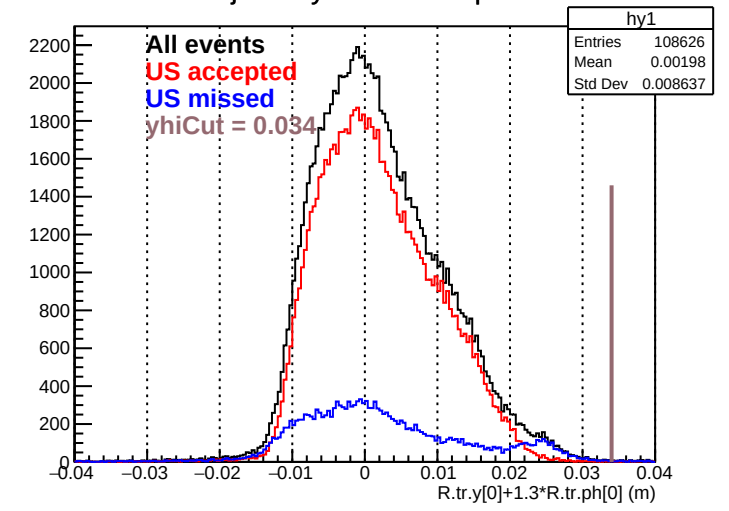

Asymmetry (ppm), yhiCut = 0.032 m
Asym
Entries 107944
Mean 0.5662
Std Dev 0.08931
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

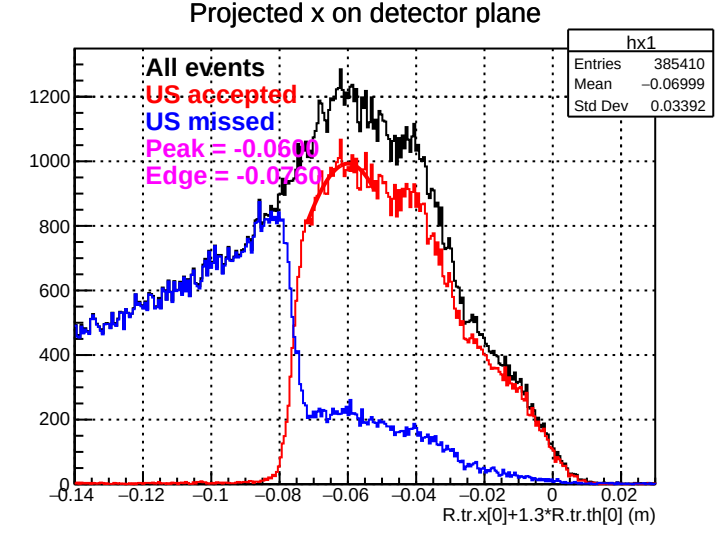

Stretched Asym. (ppm), yhiCut = 0.032 m
SAsym
Entries 107944
Mean 0.5533
Std Dev 0.08525
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

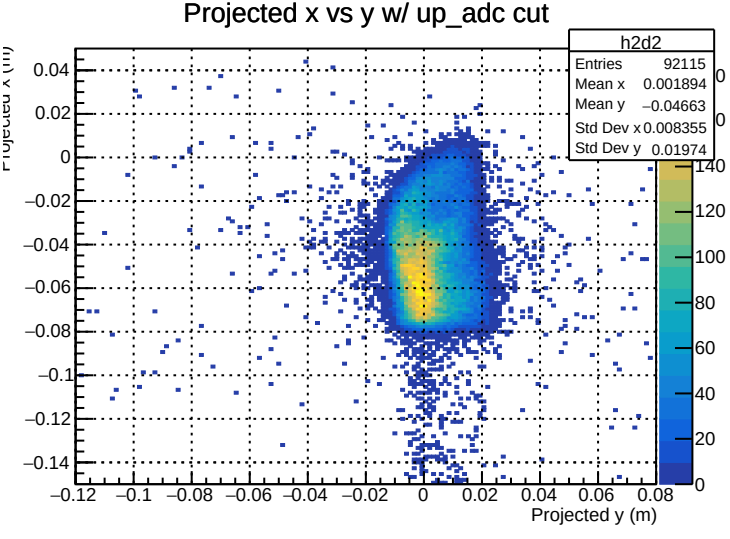

Q^2 (GeV/c)^2, yhiCut = 0.032 m
Q2
Entries 107944
Mean 0.006303
Std Dev 0.001339
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

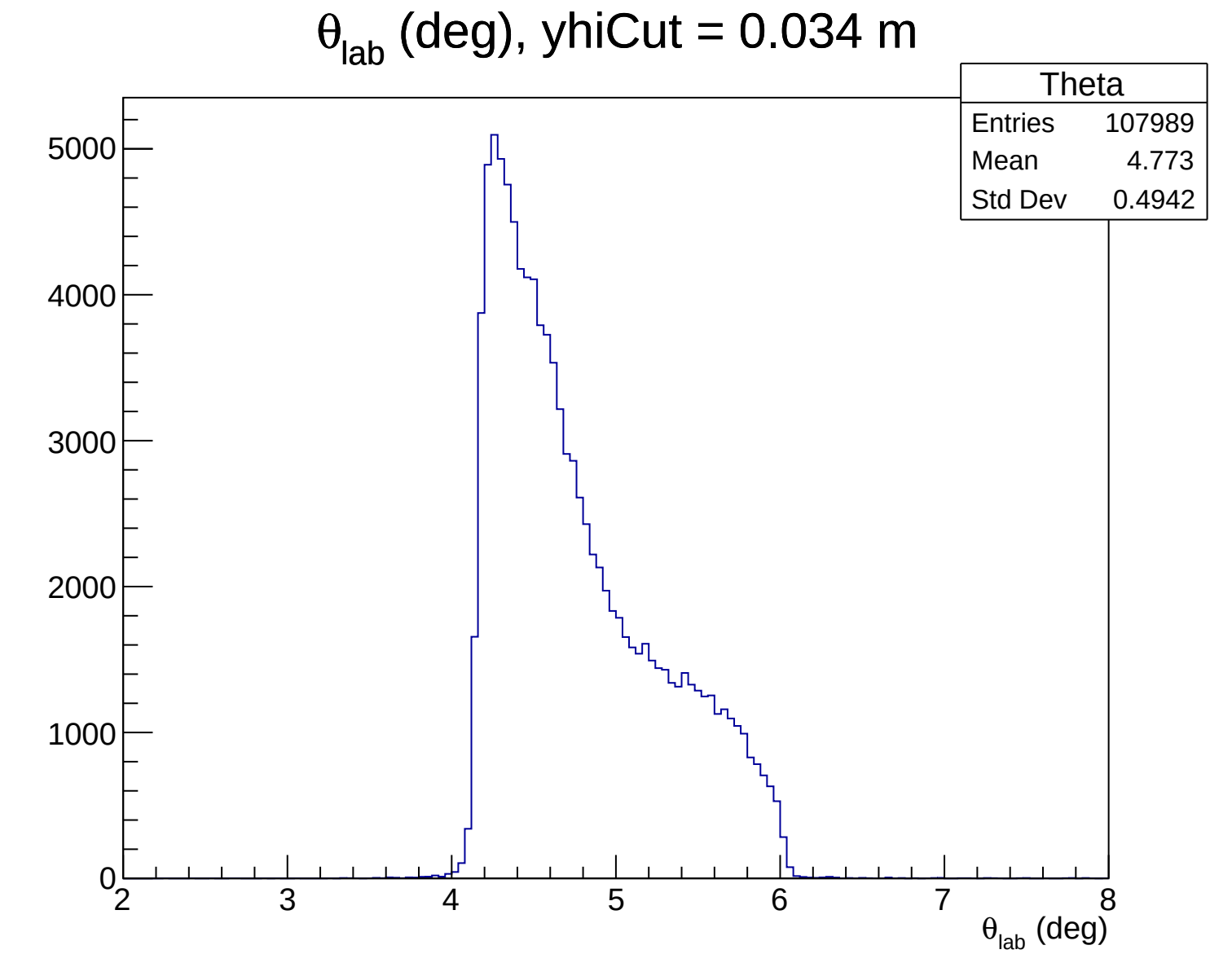

Sensitivity, yhiCut = 0.032 m
sens
Entries 107944
Mean 0.02212
Std Dev 0.004225
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

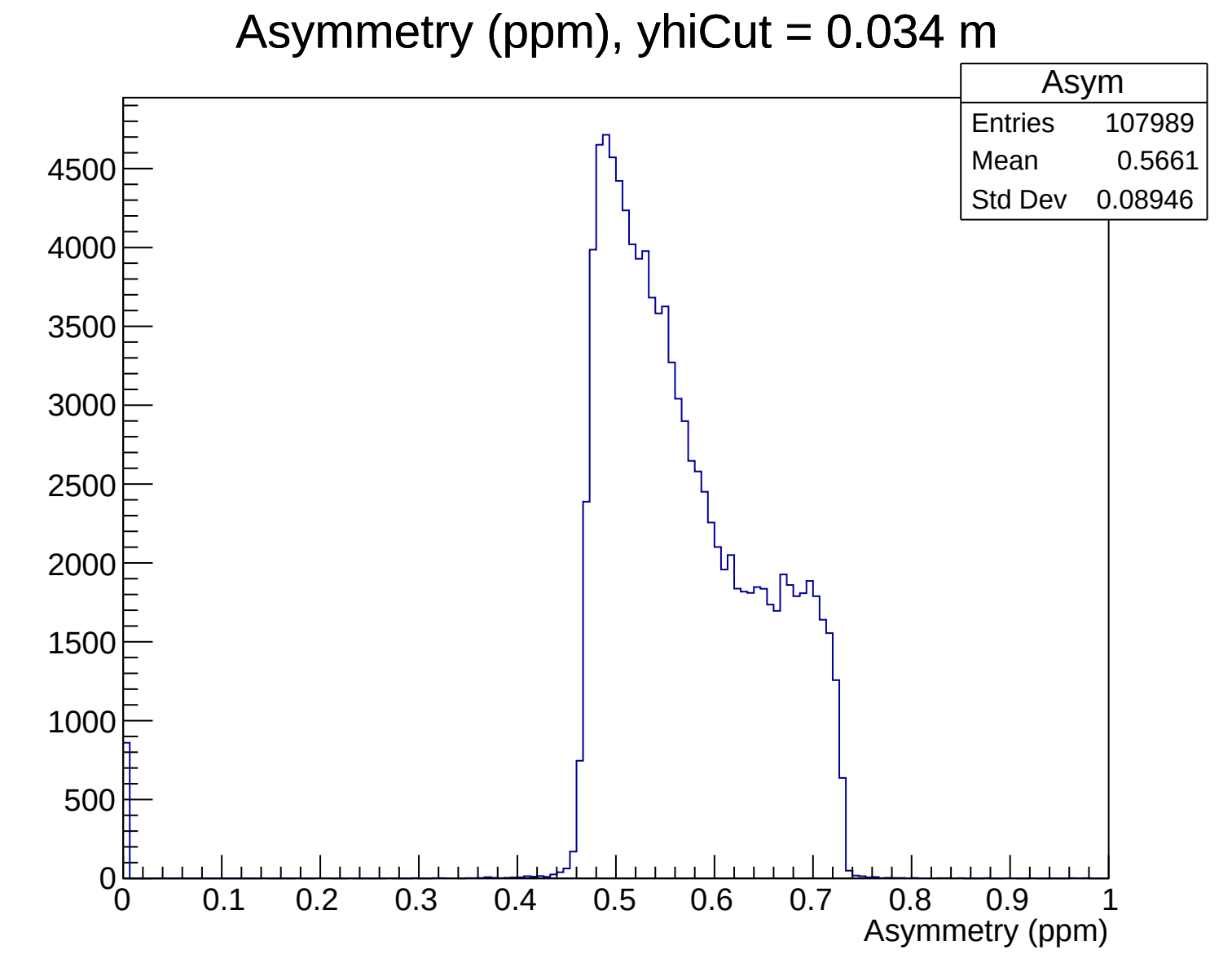

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

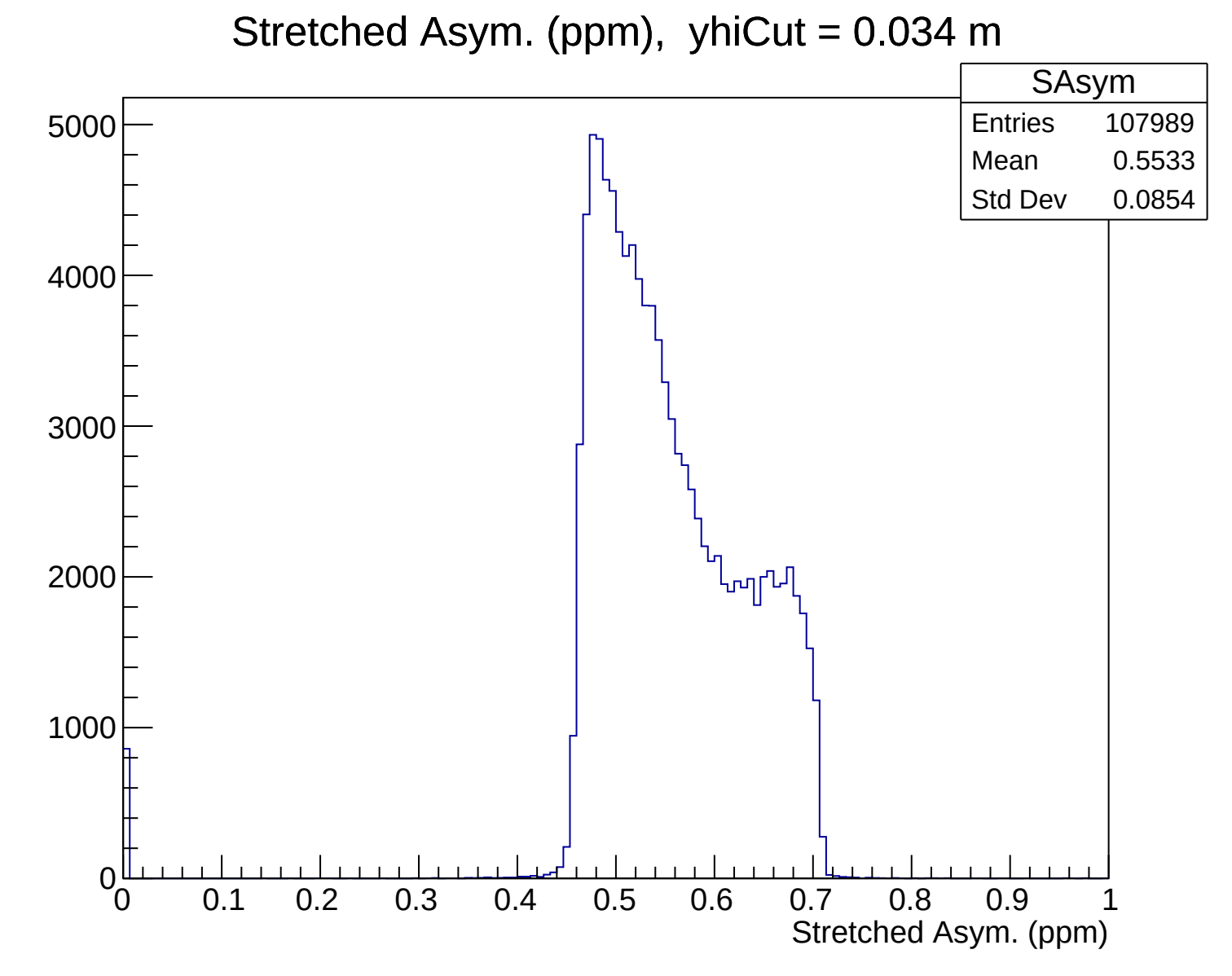

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.034
R.tr.y[0]+1.3*R.tr.ph[0] (m)

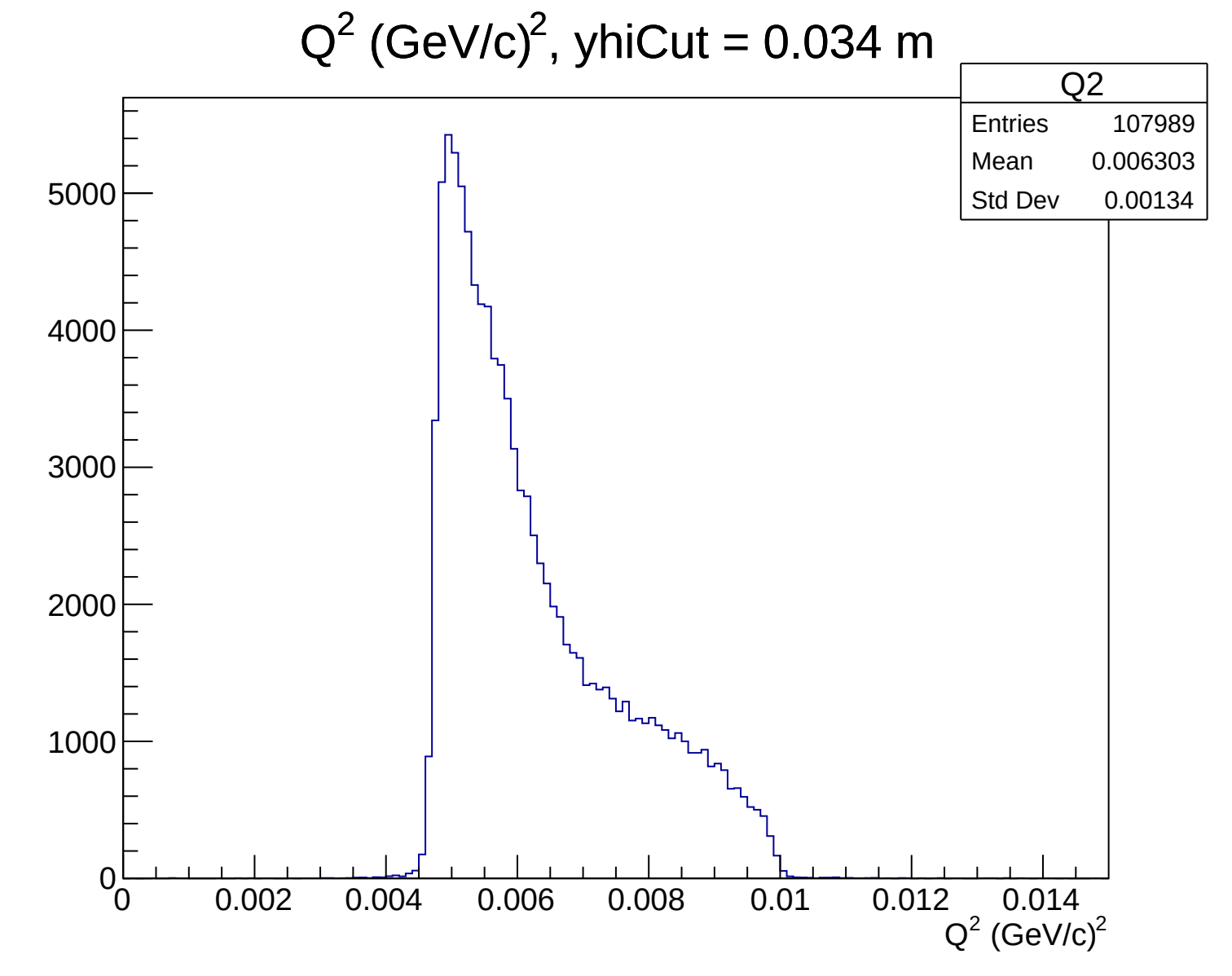

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

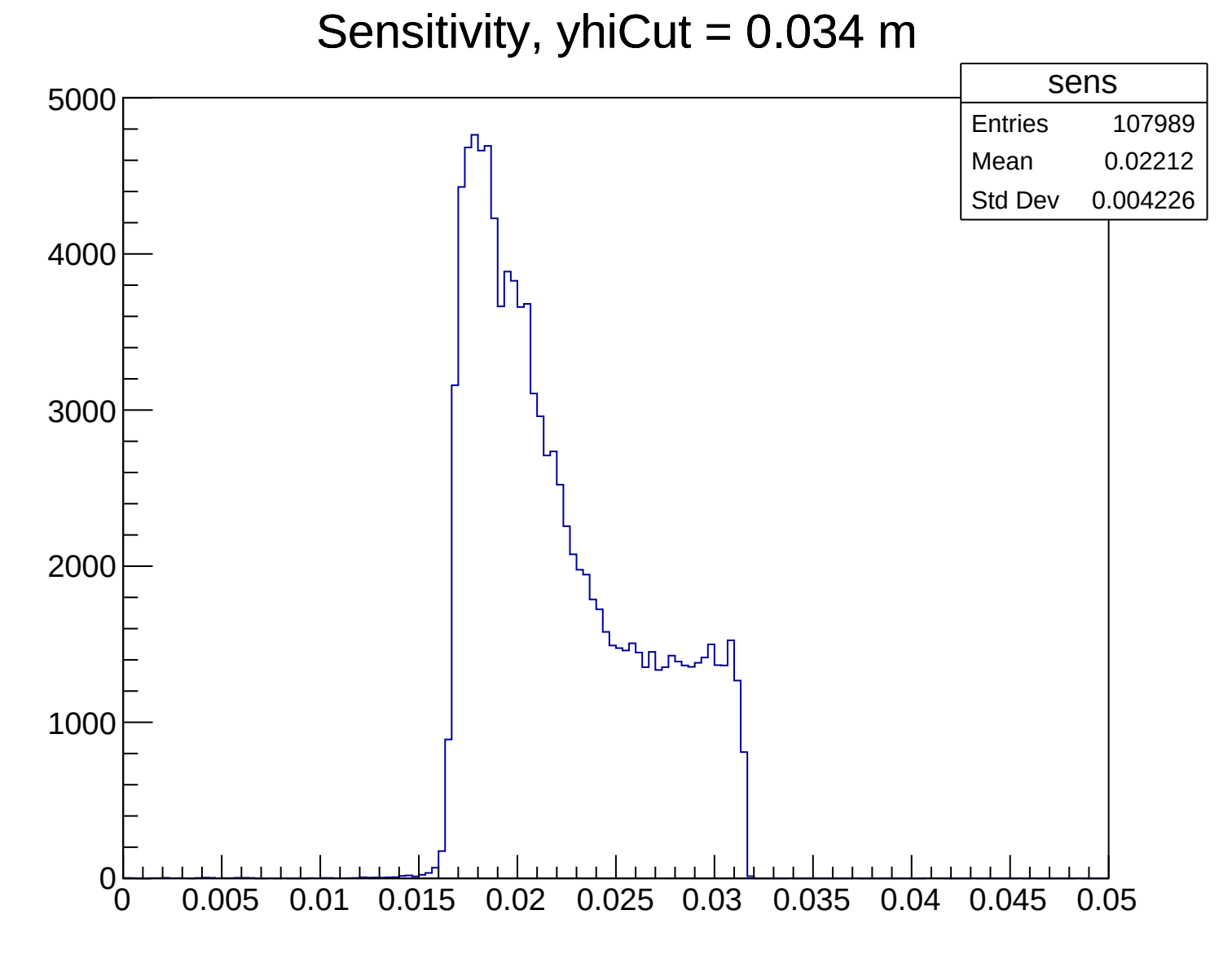

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected y (m)

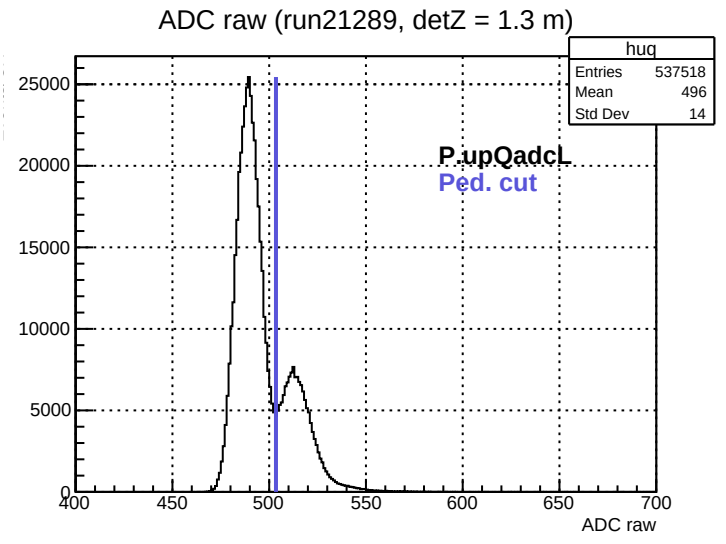

θlab (deg), yhiCut = 0.034 m
Theta
Entries 107989
Mean 4.773
Std Dev 0.4942
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

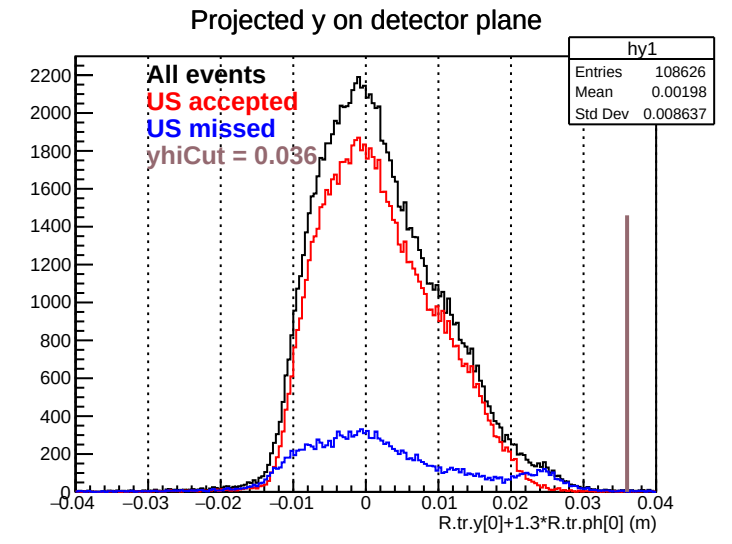

Asymmetry (ppm), yhiCut = 0.034 m
Asym
Entries 107989
Mean 0.5661
Std Dev 0.08946
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

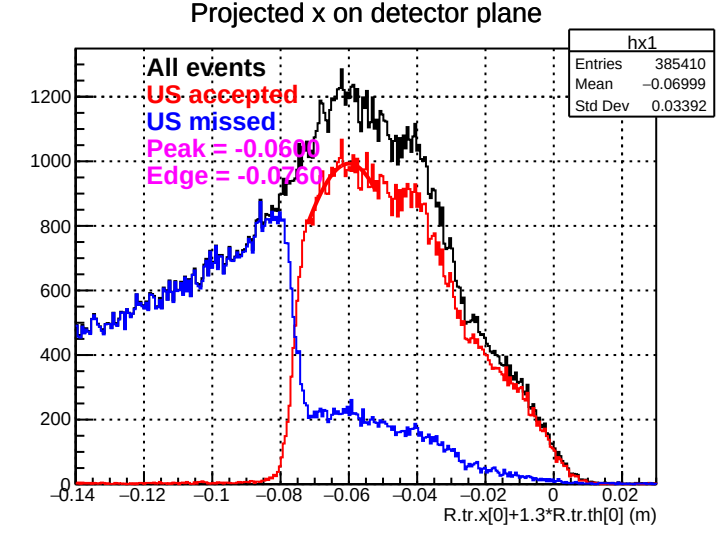

Stretched Asym. (ppm), yhiCut = 0.034 m
SAsym
Entries 107989
Mean 0.5533
Std Dev 0.0854
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

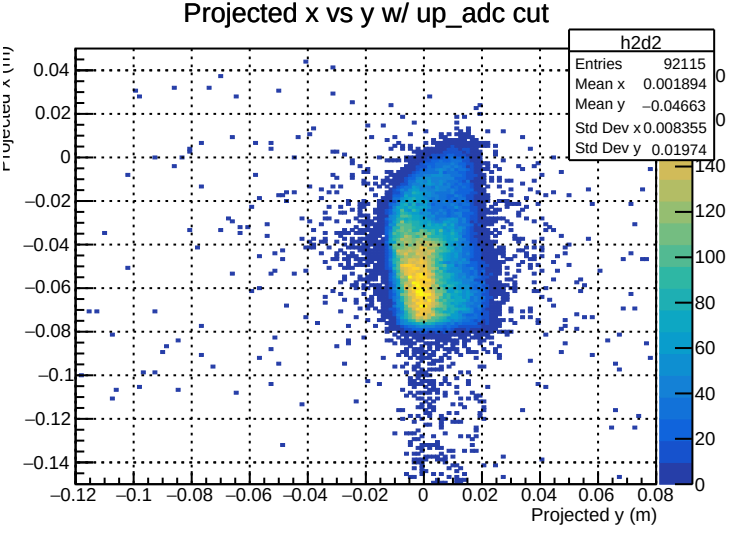

Q^2 (GeV/c)^2, yhiCut = 0.034 m
Q2
Entries 107989
Mean 0.006303
Std Dev 0.00134
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

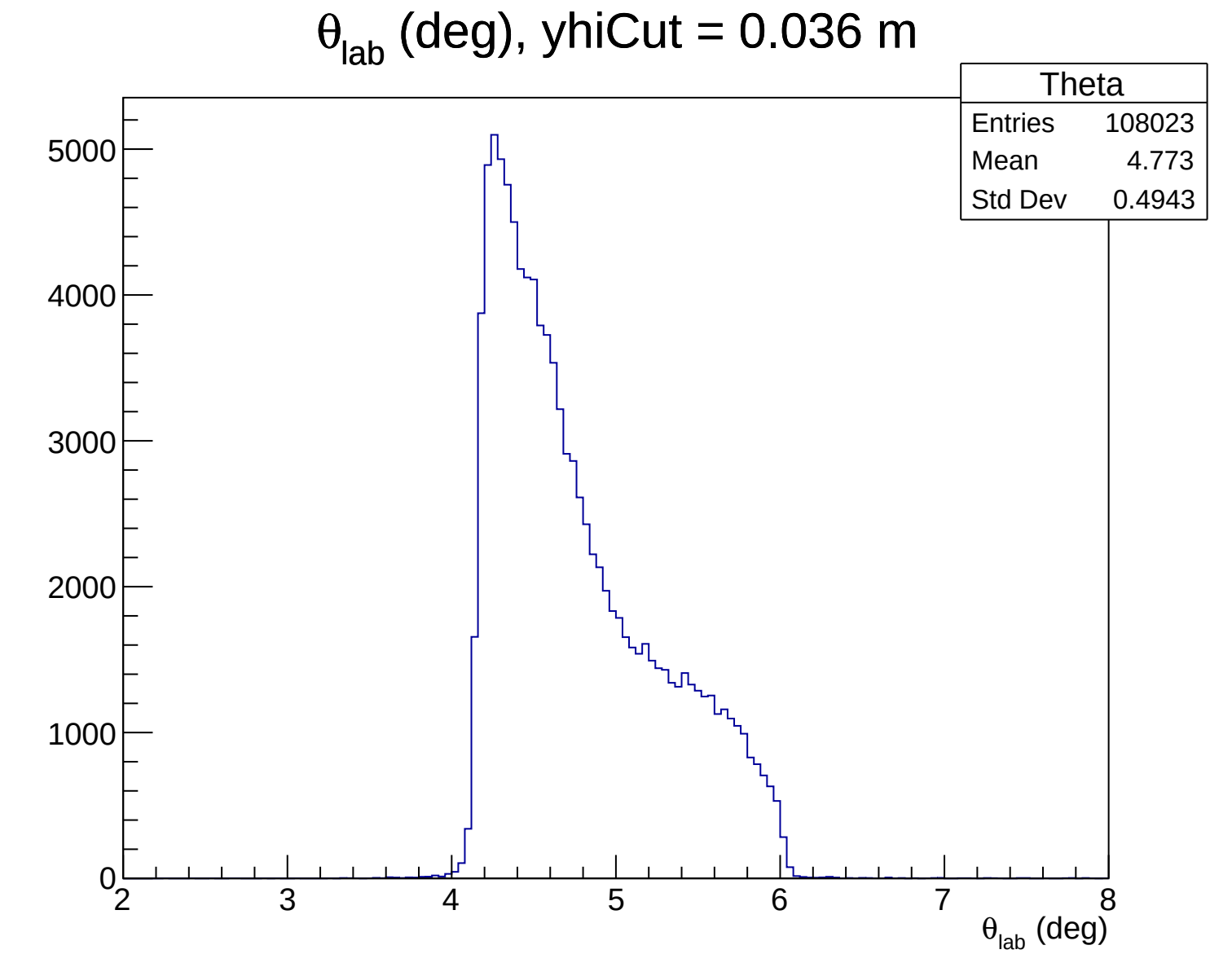

Sensitivity, yhiCut = 0.034 m
sens
Entries 107989
Mean 0.02212
Std Dev 0.004226
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

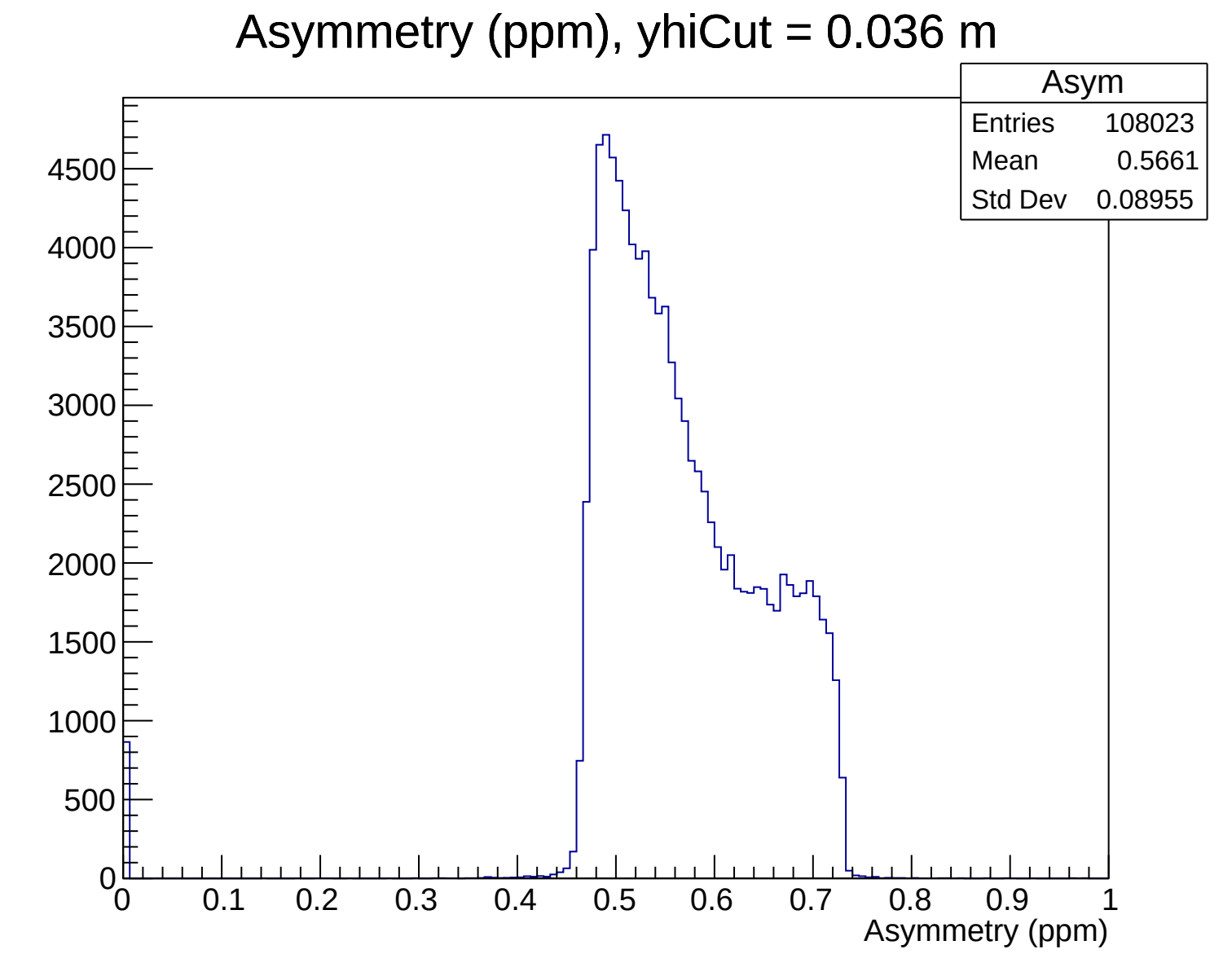

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

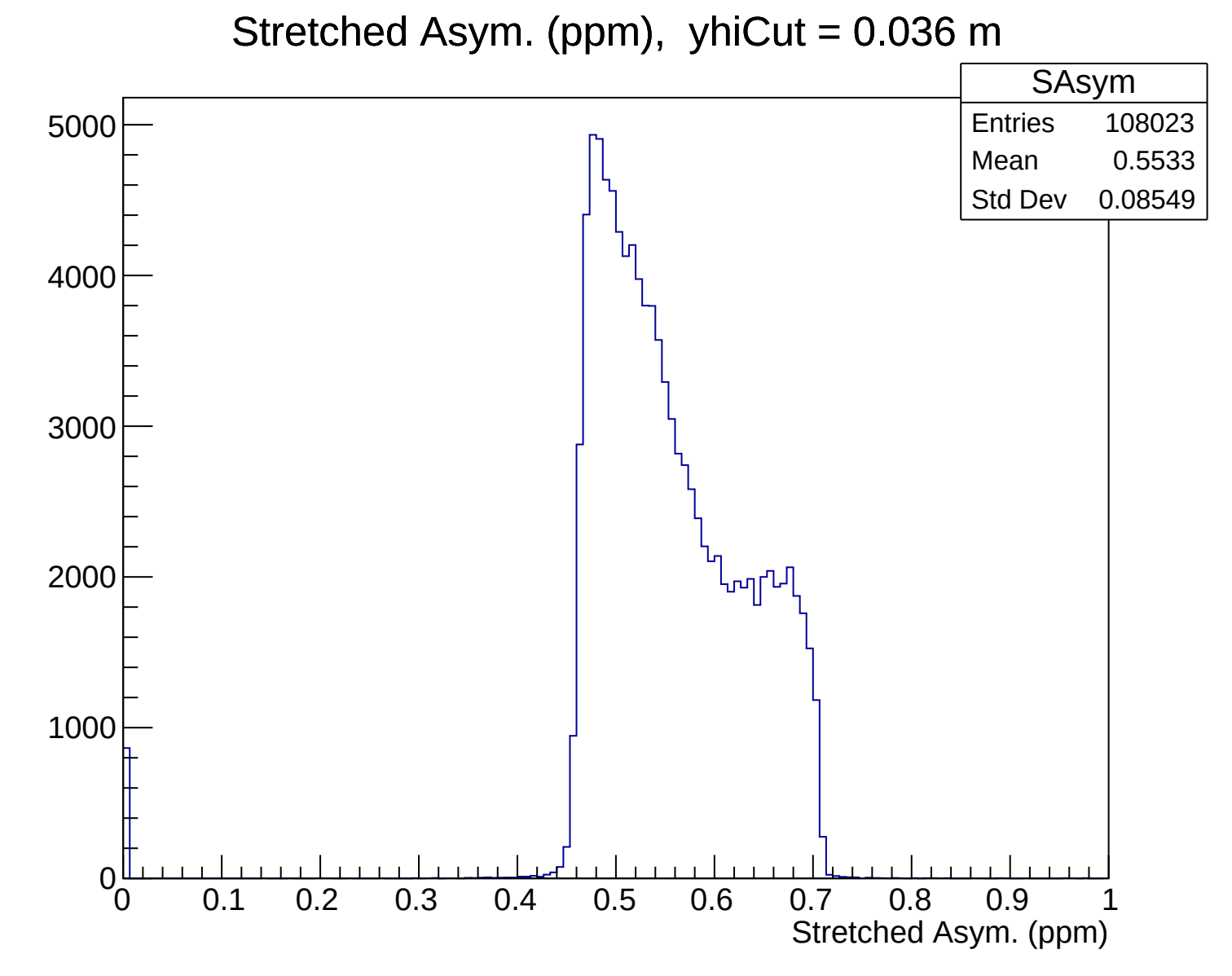

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.036
R.tr.y[0]+1.3*R.tr.ph[0] (m)

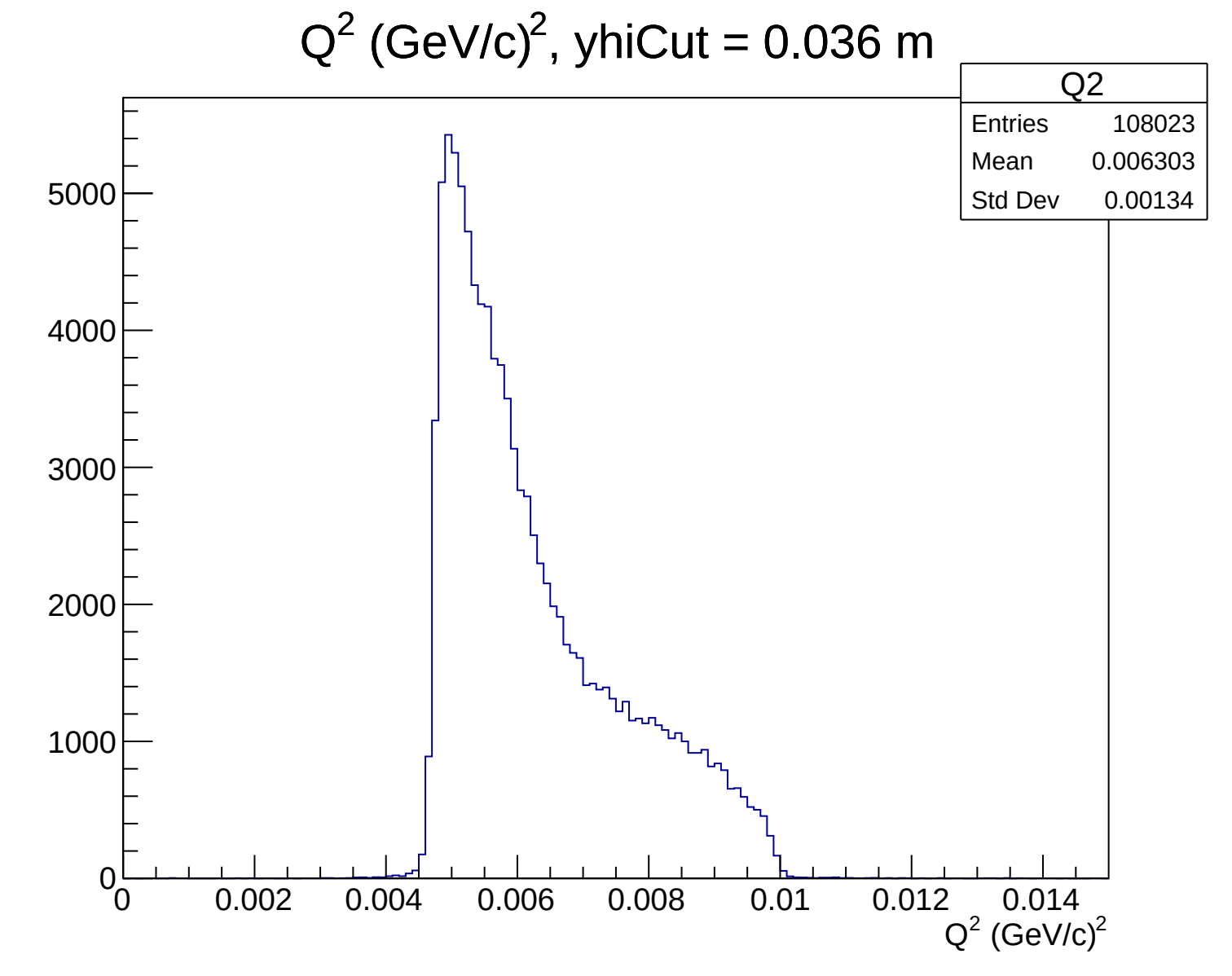

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

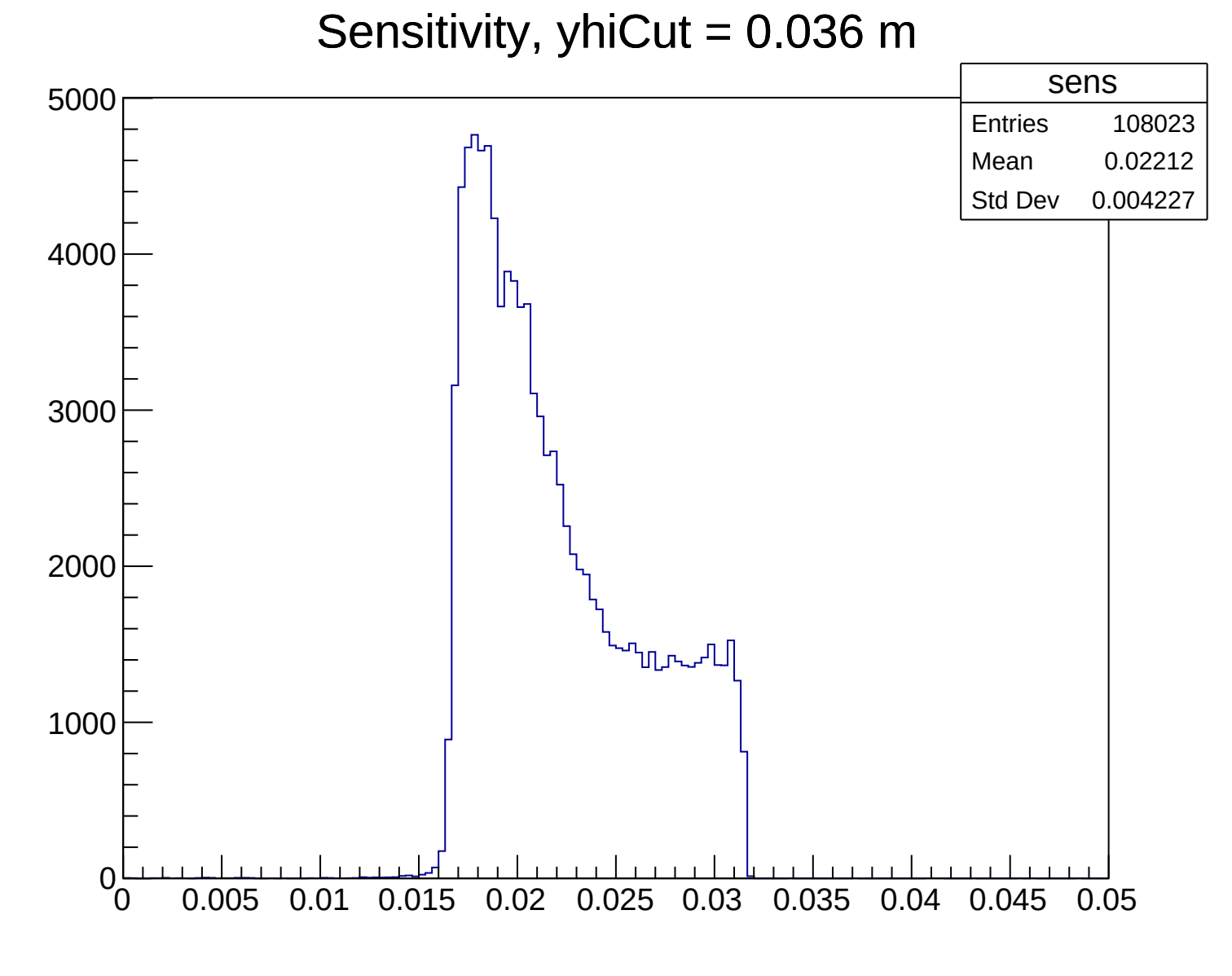

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

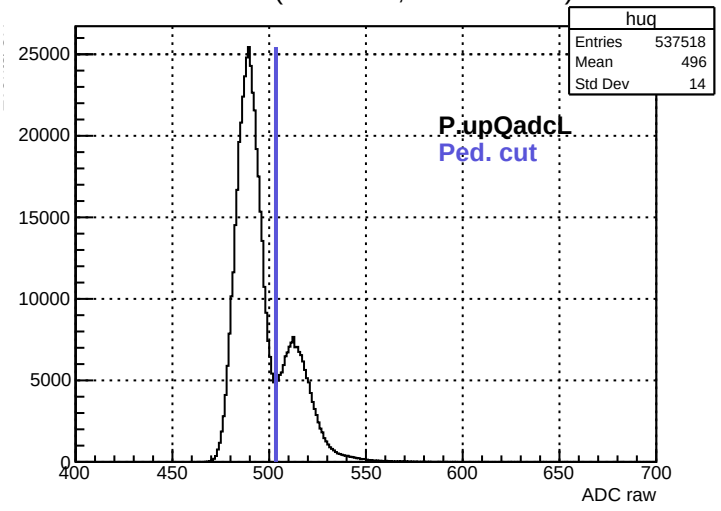

θlab (deg), yhiCut = 0.036 m
Theta
Entries 108023
Mean 4.773
Std Dev 0.4943
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

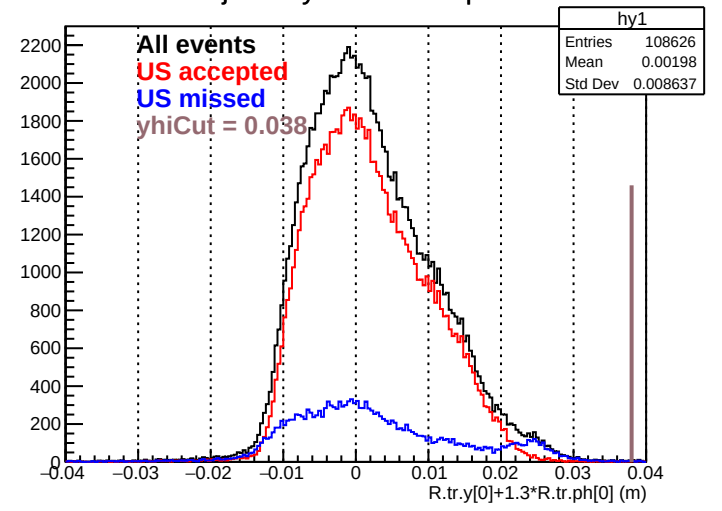

Asymmetry (ppm), yhiCut = 0.036 m
Asym
Entries 108023
Mean 0.5661
Std Dev 0.08955
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Asymmetry (ppm)

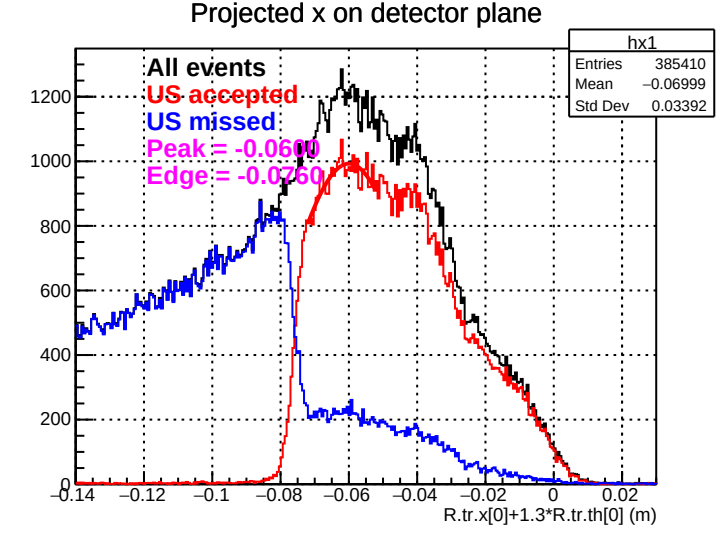

Stretched Asym. (ppm), yhiCut = 0.036 m
SAsym
Entries 108023
Mean 0.5533
Std Dev 0.08549
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

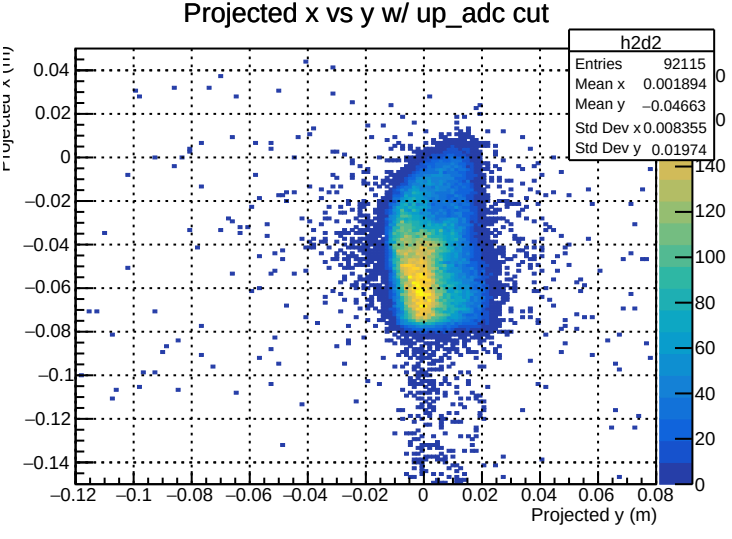

Q^2 (GeV/c)^2, yhiCut = 0.036 m
Q2
Entries 108023
Mean 0.006303
Std Dev 0.00134
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

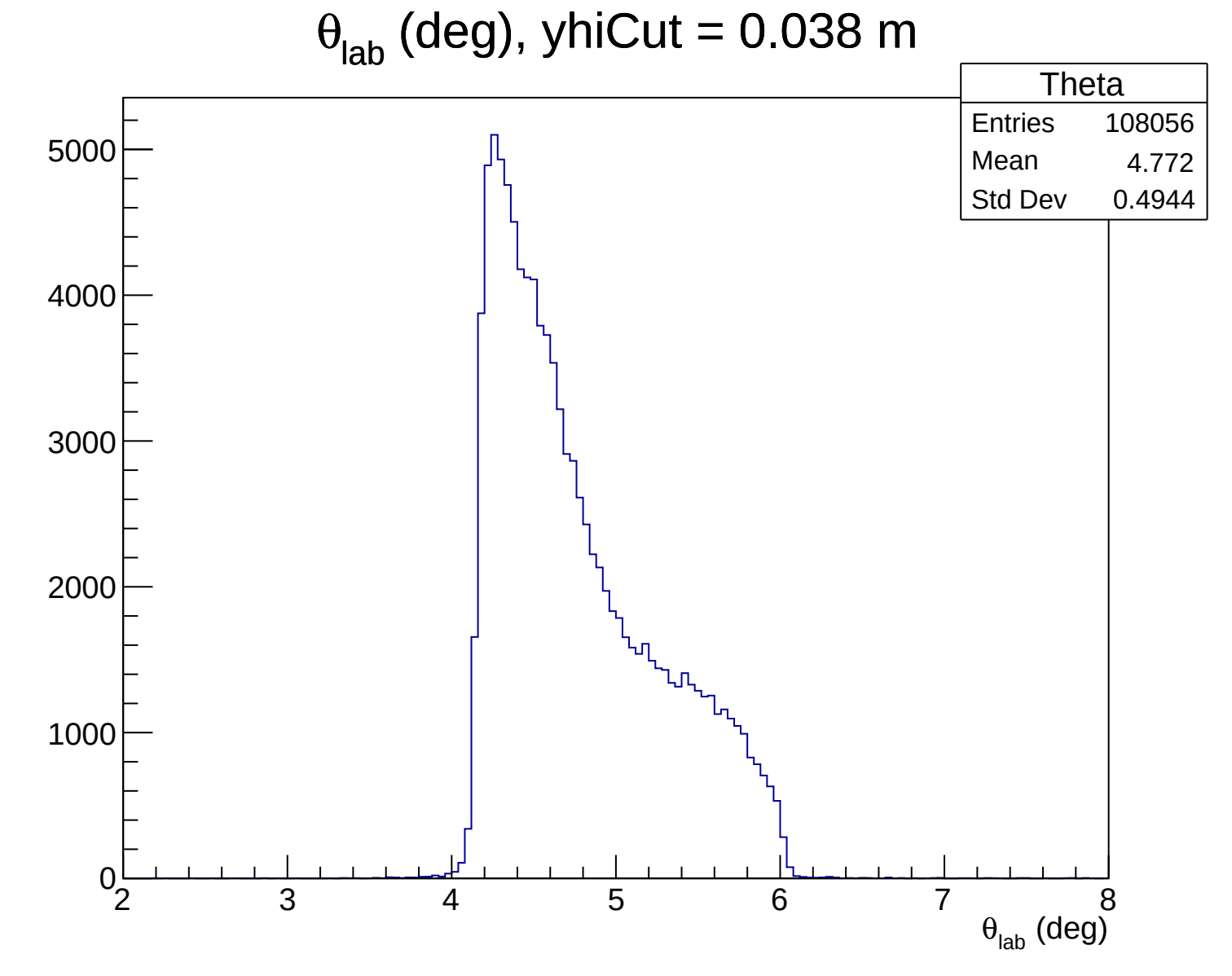

Sensitivity, yhiCut = 0.036 m
sens
Entries 108023
Mean 0.02212
Std Dev 0.004227
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

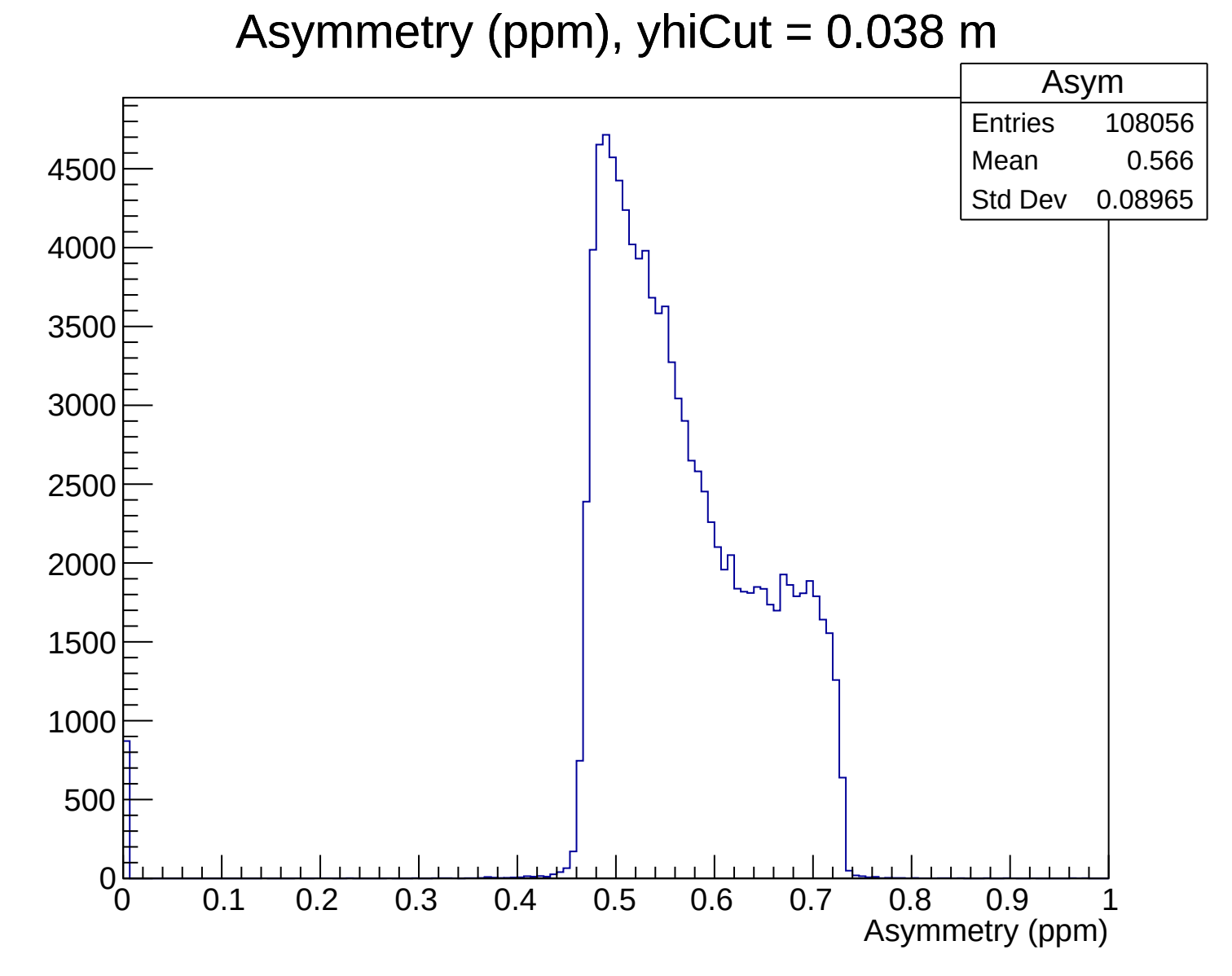

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

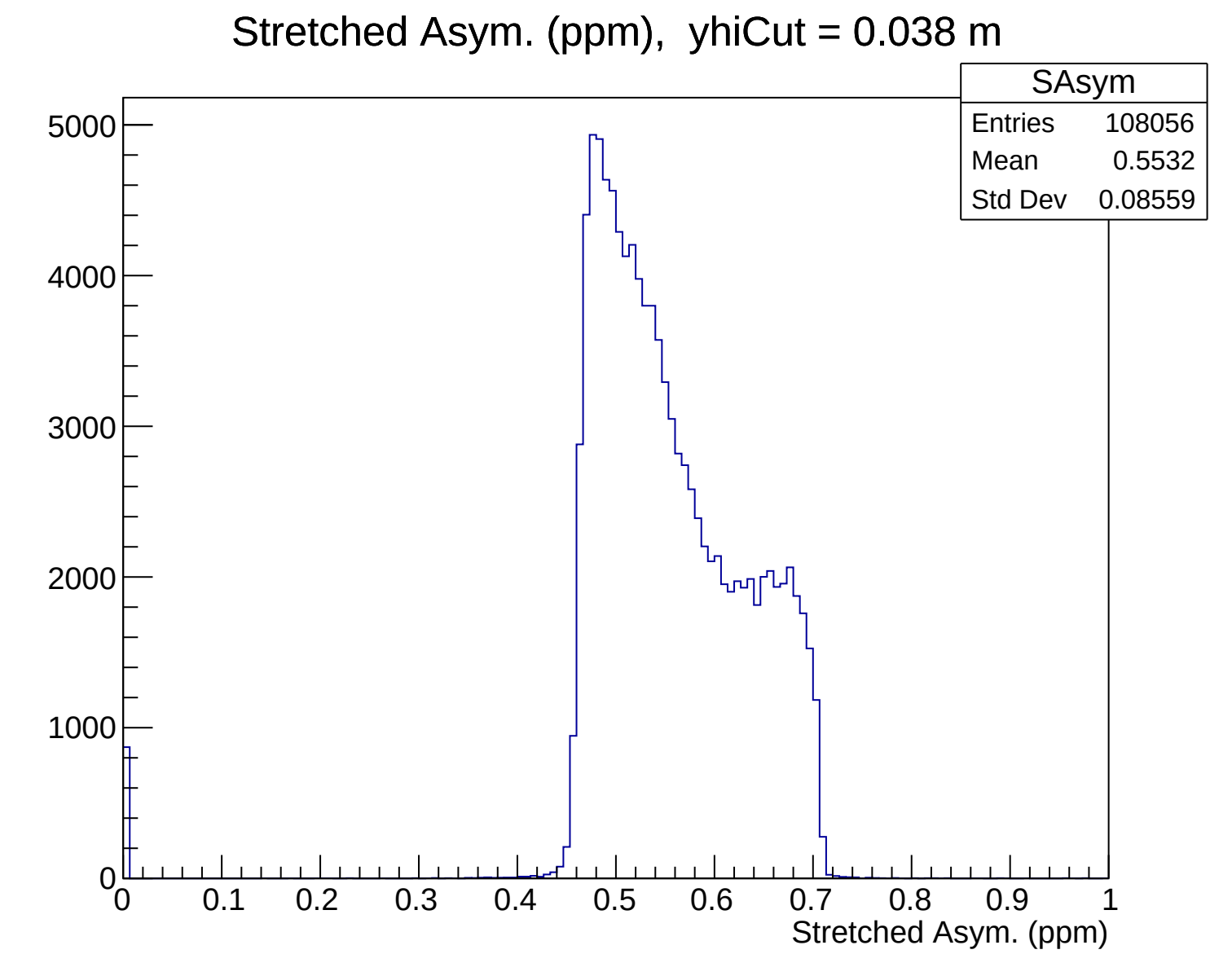

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.038
R.tr.y[0]+1.3*R.tr.ph[0] (m)

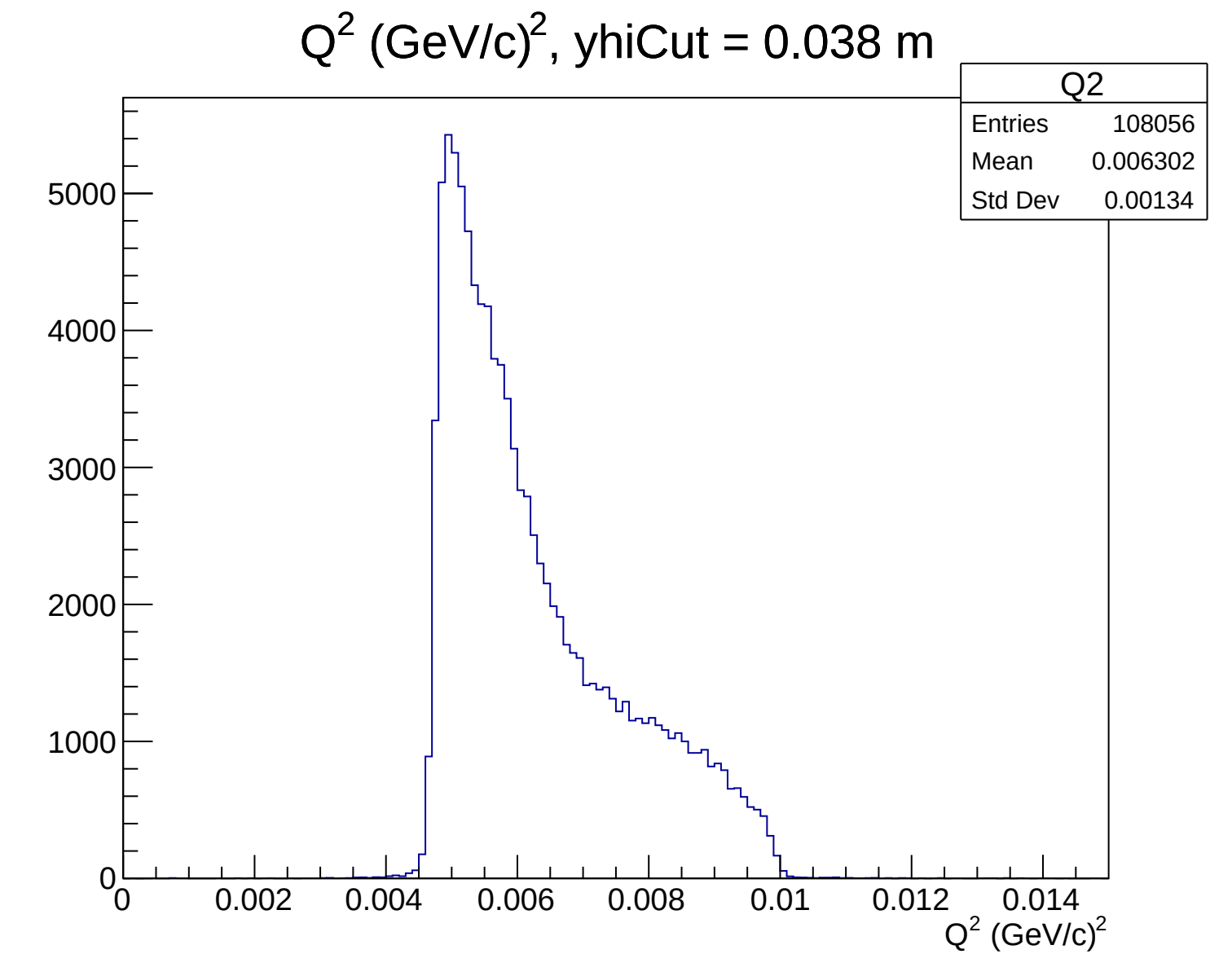

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

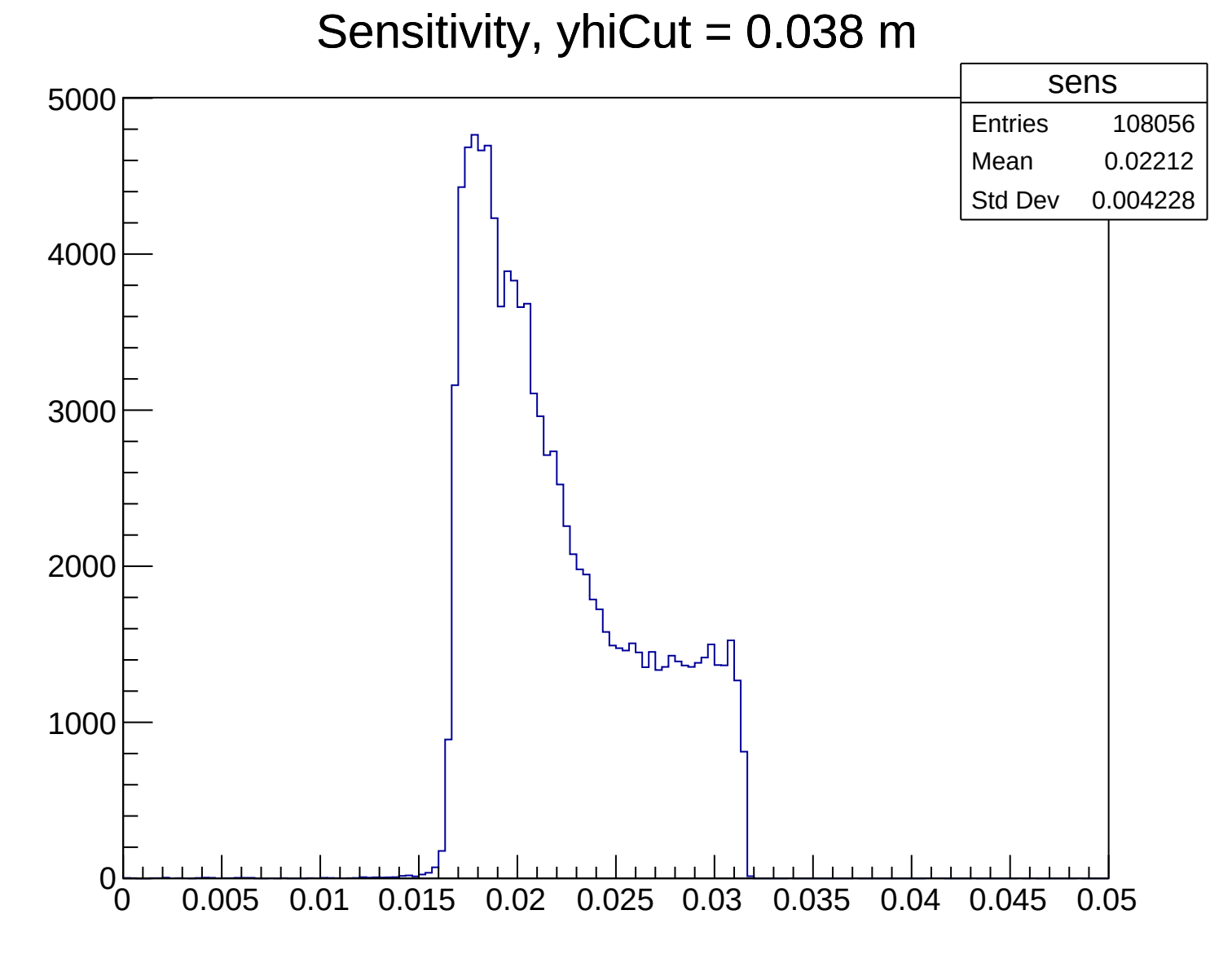

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)

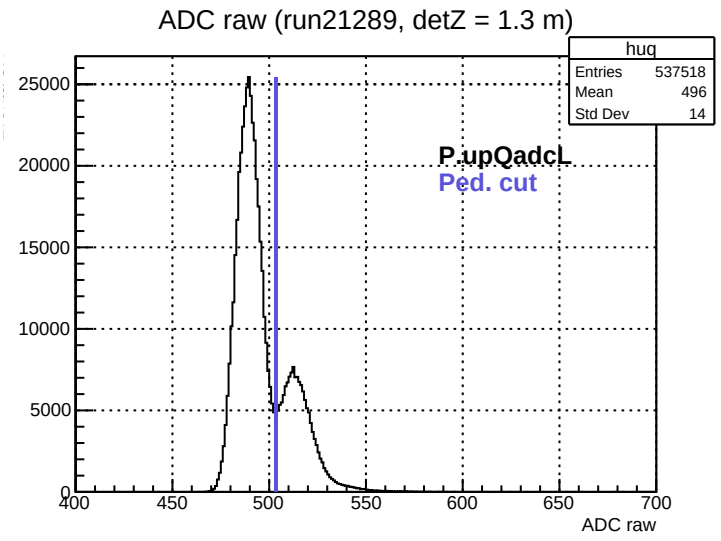

θlab (deg), yhiCut = 0.038 m
Theta
Entries 108056
Mean 4.772
Std Dev 0.4944
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)

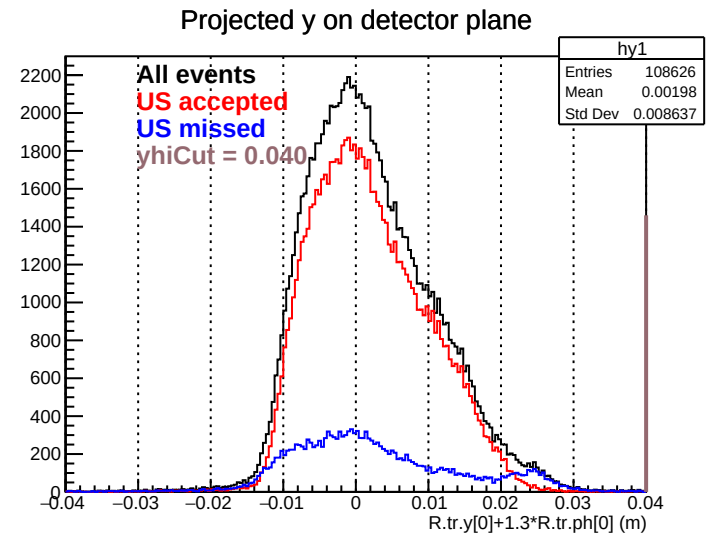

Asymmetry (ppm), yhiCut = 0.038 m
Asym
Entries 108056
Mean 0.566
Std Dev 0.08965
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)

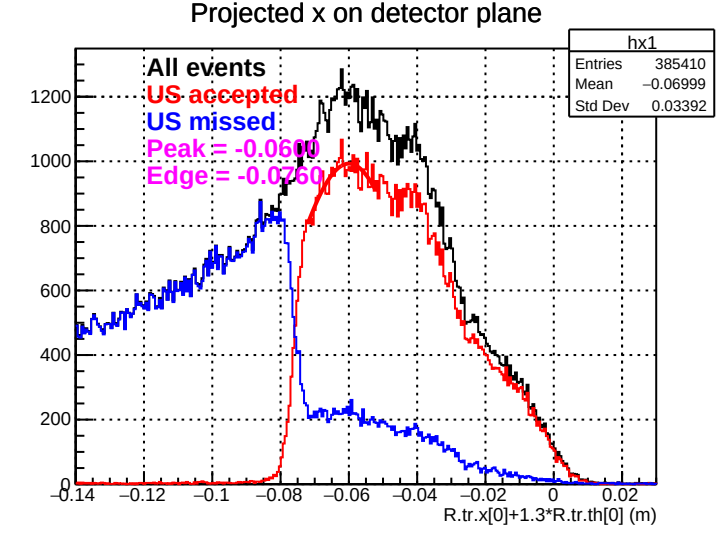

Stretched Asym. (ppm), yhiCut = 0.038 m
SAsym
Entries 108056
Mean 0.5532
Std Dev 0.08559
5000
4000
3000
2000
1000
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Stretched Asym. (ppm)

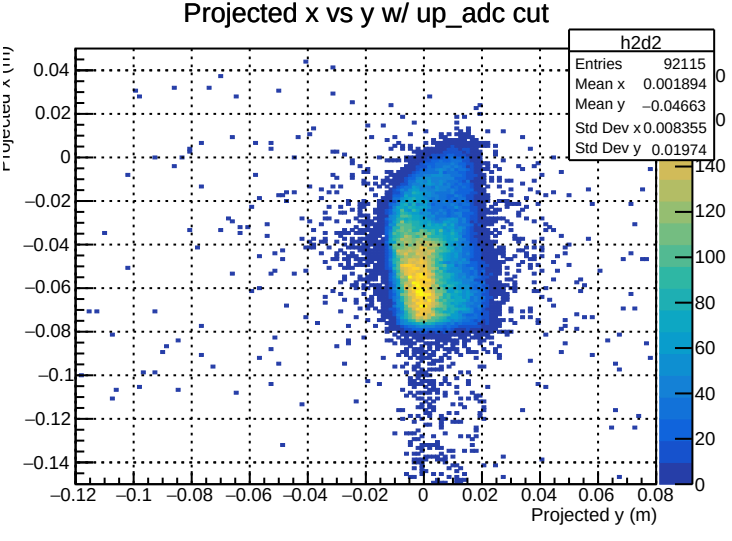

Q^2 (GeV/c)^2, yhiCut = 0.038 m
Q2
Entries 108056
Mean 0.006302
Std Dev 0.00134
5000
4000
3000
2000
1000
0
0
0.002
0.004
0.006
0.008
0.01
0.012
0.014
Q^2 (GeV/c)^2

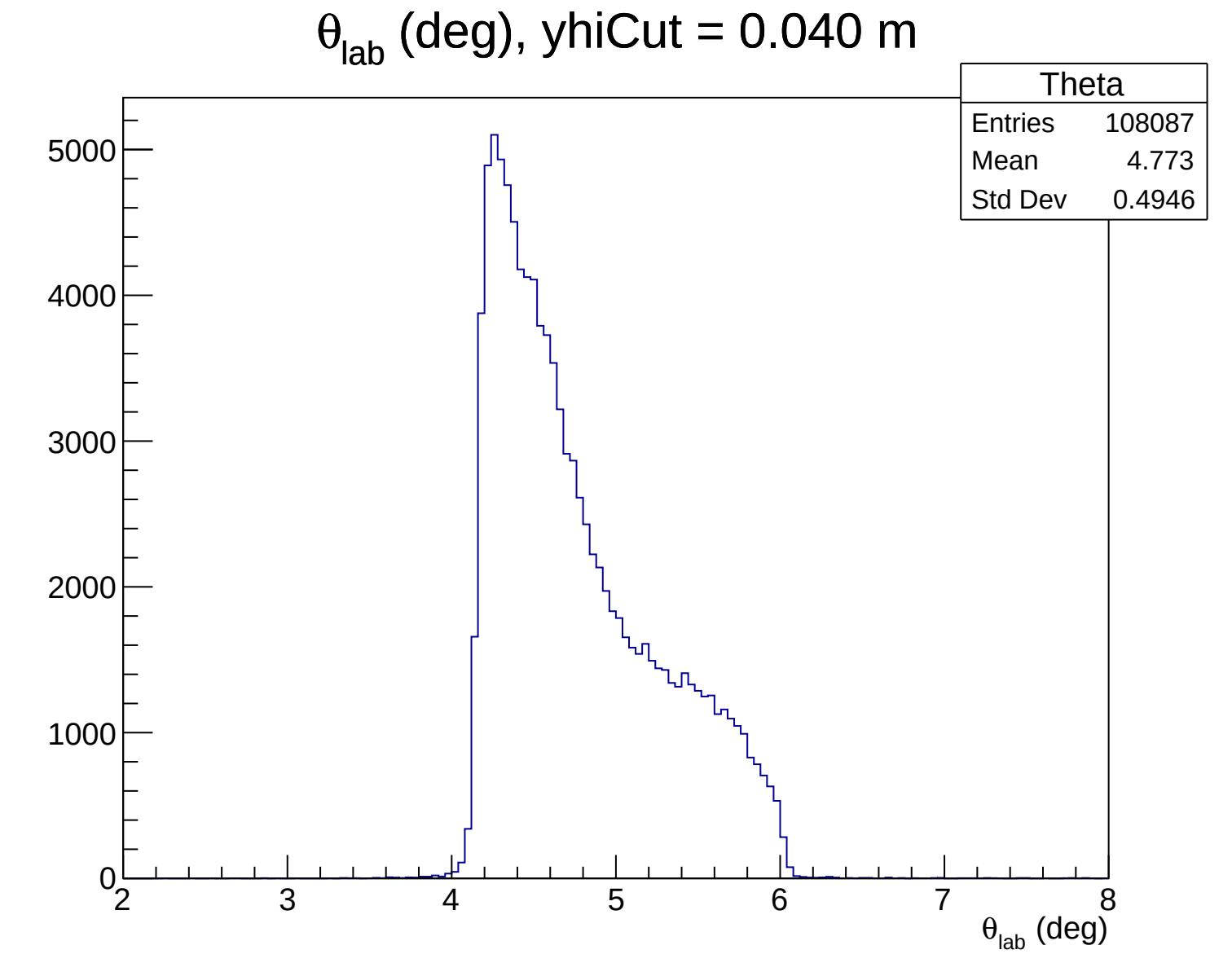

Sensitivity, yhiCut = 0.038 m
sens
Entries 108056
Mean 0.02212
Std Dev 0.004228
5000
4000
3000
2000
1000
0
0
0.005
0.01
0.015
0.02
0.025
0.03
0.035
0.04
0.045
0.05

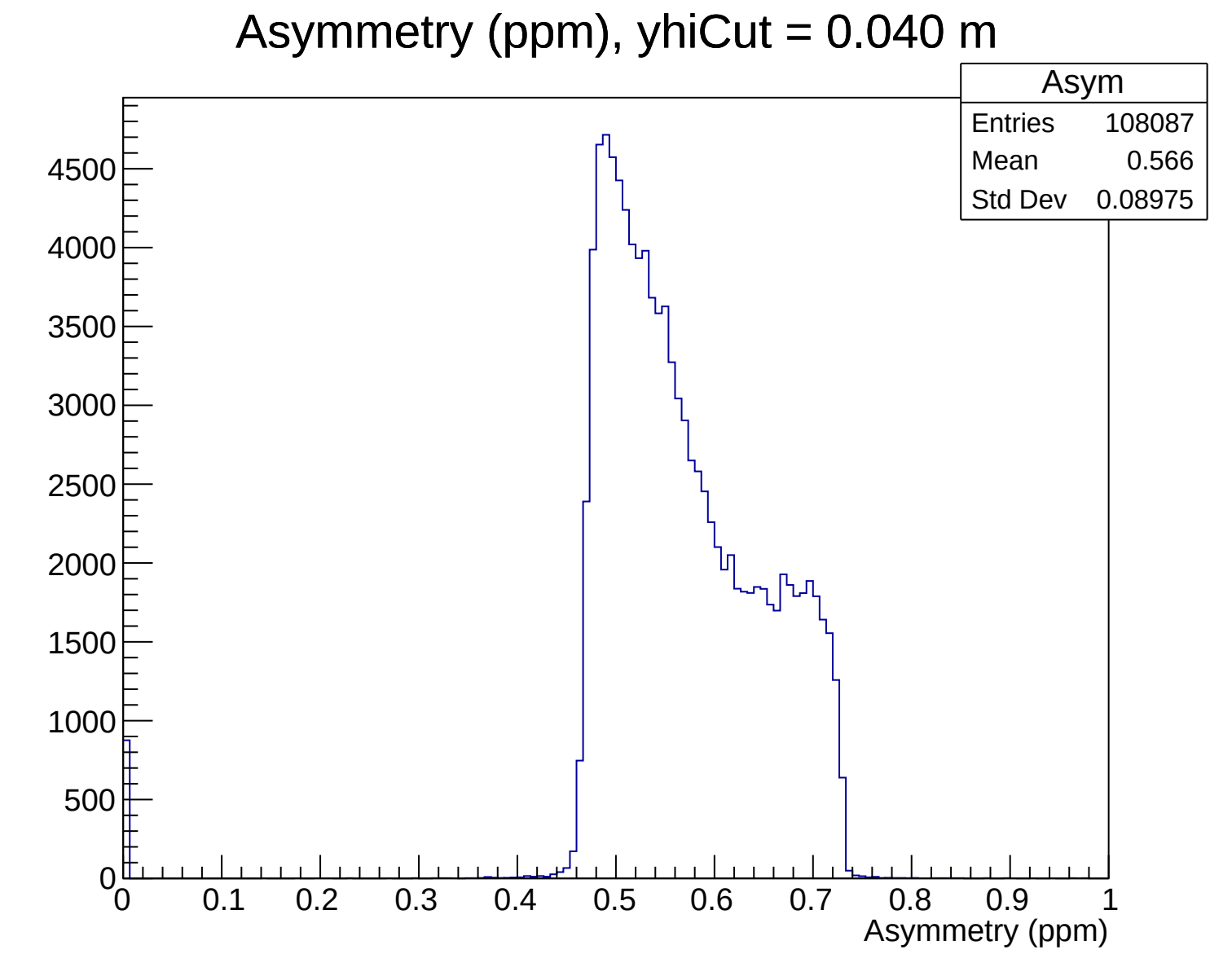

ADC raw (run21289, detZ = 1.3 m)
huq
Entries 537518
Mean 496
Std Dev 14
P.upQadcL
Ped. cut
ADC raw

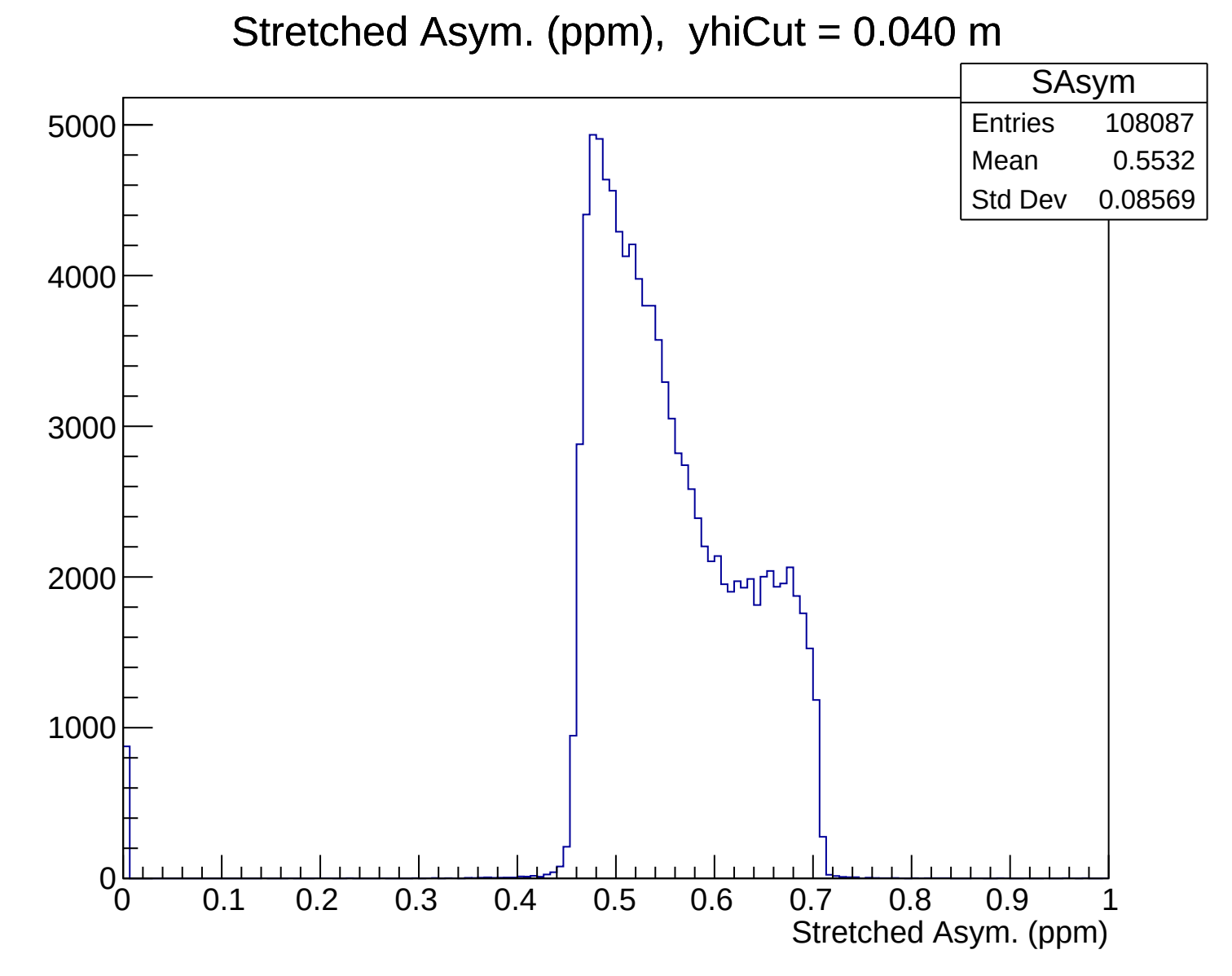

Projected y on detector plane
hy1
Entries 108626
Mean 0.00198
Std Dev 0.008637
All events
US accepted
US missed
yhiCut = 0.040
R.tr.y[0]+1.3*R.tr.ph[0] (m)

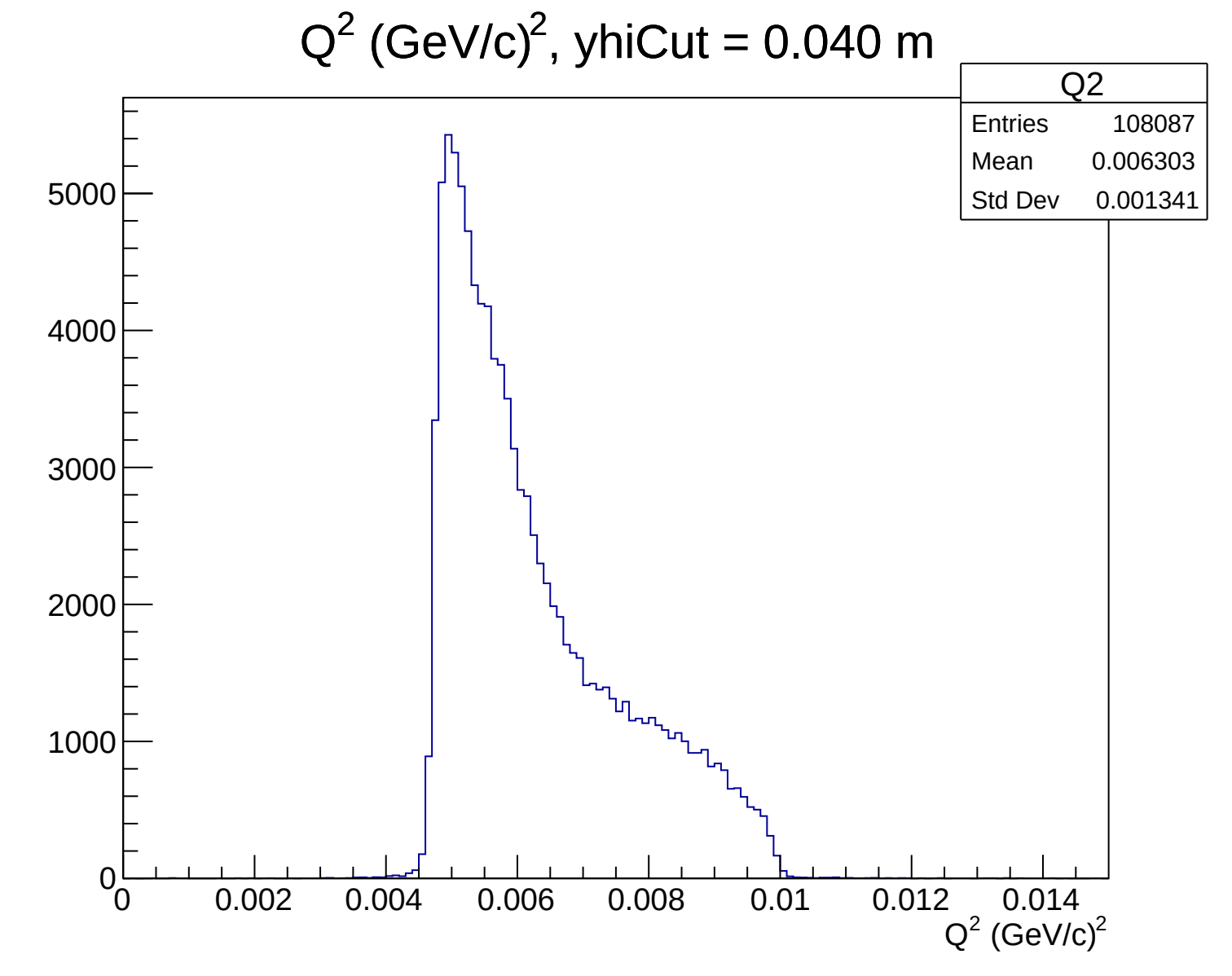

Projected x on detector plane
hx1
Entries 385410
Mean −0.06999
Std Dev 0.03392
All events
US accepted
US missed
Peak = -0.0600
Edge = -0.0760
R.tr.x[0]+1.3*R.tr.th[0] (m)

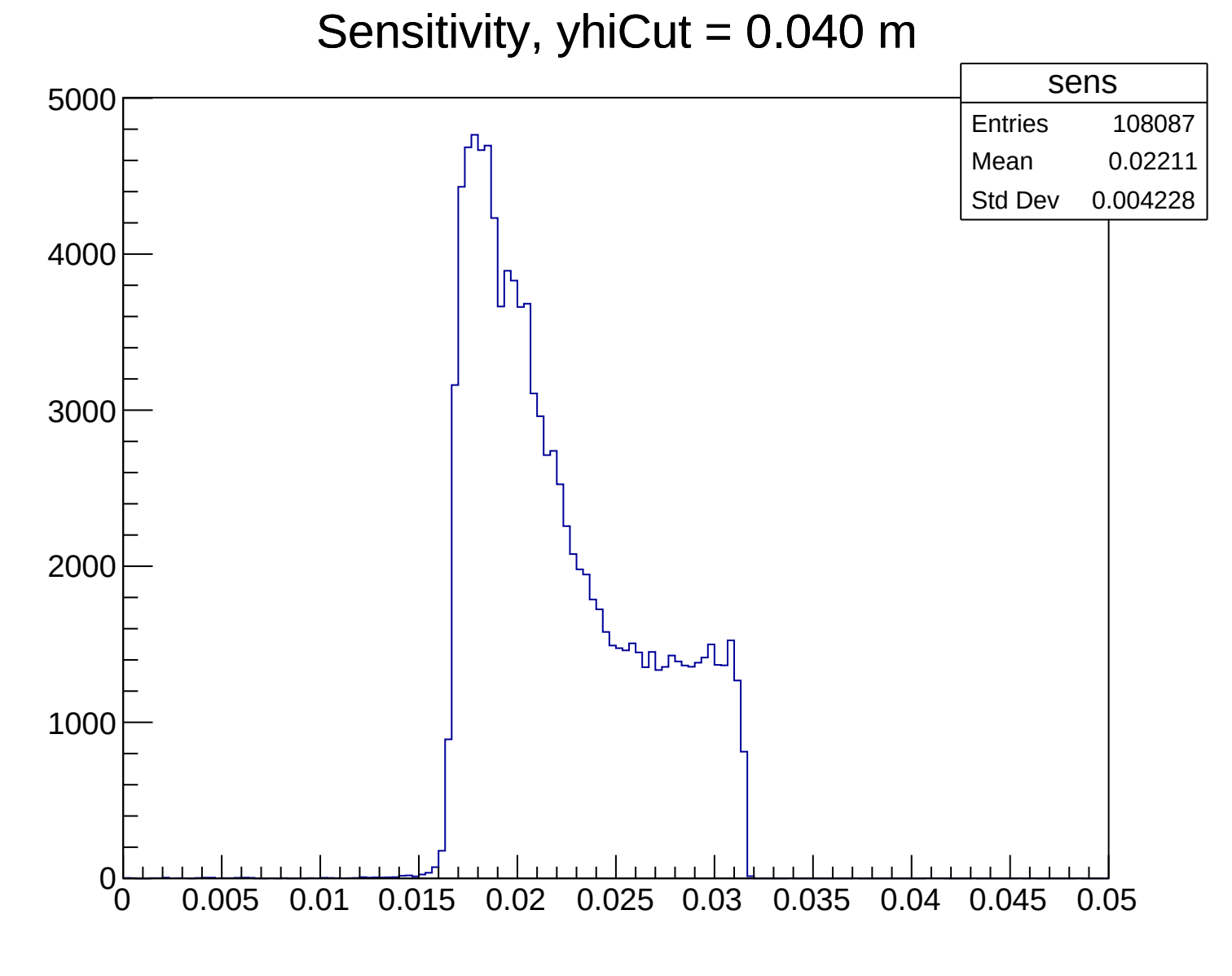

Projected x vs y w/ up_adc cut
h2d2
Entries 92115
Mean x 0.001894
Mean y −0.04663
Std Dev x 0.008355
Std Dev y 0.01974
Projected x (m)
Projected y (m)


θlab (deg), yhiCut = 0.040 m
Theta
Entries 108087
Mean 4.773
Std Dev 0.4946
5000
4000
3000
2000
1000
0
2
3
4
5
6
7
8
θlab (deg)


Asymmetry (ppm), yhiCut = 0.040 m
Asym
Entries 108087
Mean 0.566
Std Dev 0.08975
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
Asymmetry (ppm)


Stretched Asym. (ppm), yhiCut = 0.040 m
SAsym
Entries 108087
Mean 0.5532
Std Dev 0.08569
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, yhiCut = 0.040 m
Q2
Entries 108087
Mean 0.006303
Std Dev 0.001341
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, yhiCut = 0.040 m
sens
Entries 108087
Mean 0.02211
Std Dev 0.004228
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