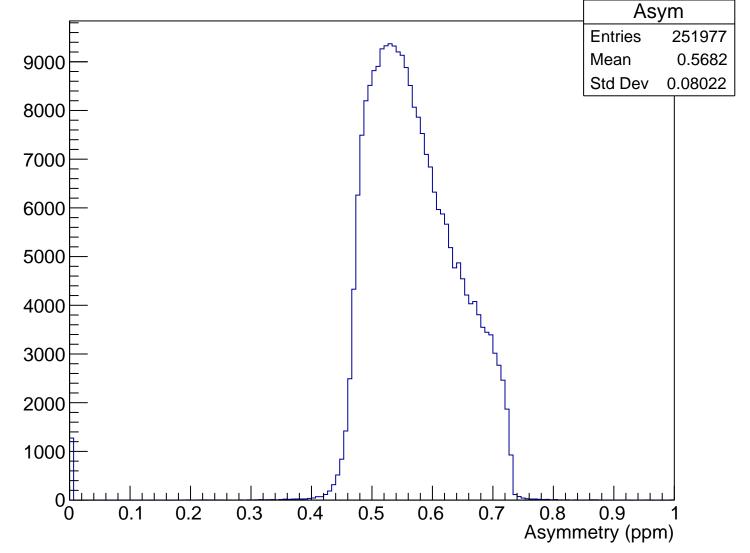
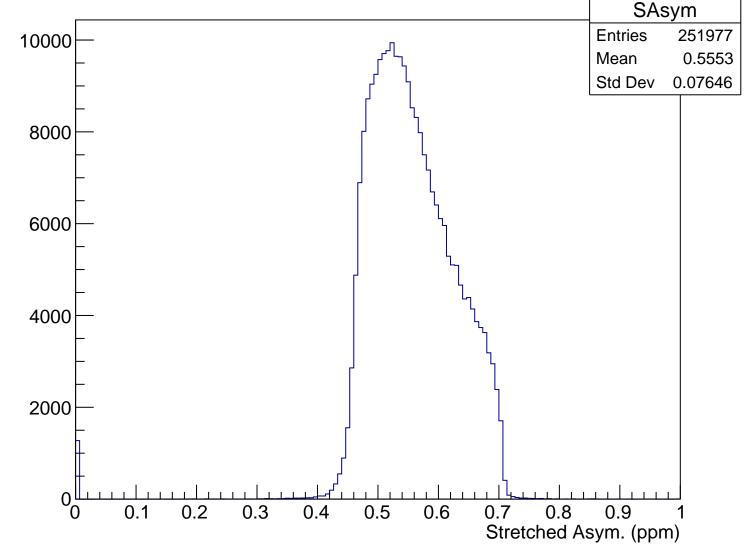
RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries Mean 0.9421 0.9473 0.9382 Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9300 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 520 540 560 580 600 R.gold.p (GeV) ADC raw

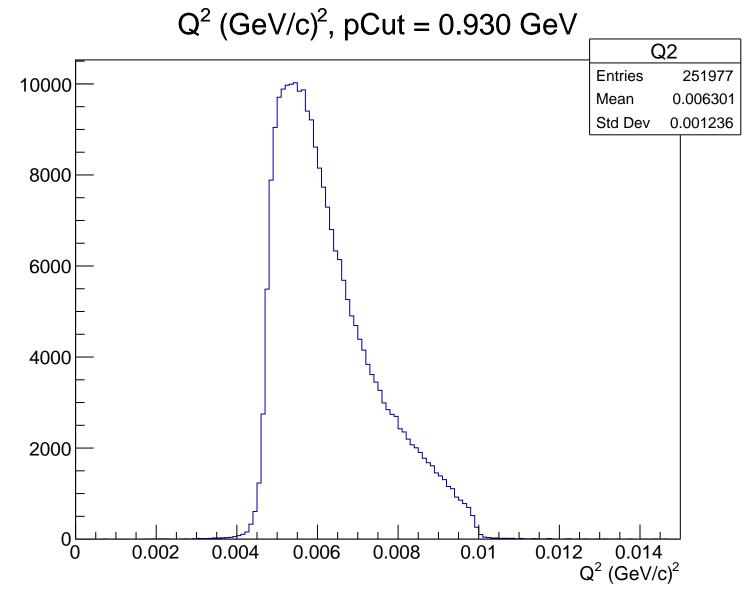
 $\theta_{lab}$  (deg), pCut = 0.930 GeV Theta 10000 **Entries** 251977 Mean 4.782 Std Dev 0.4586 8000 6000 4000 2000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.930 GeV

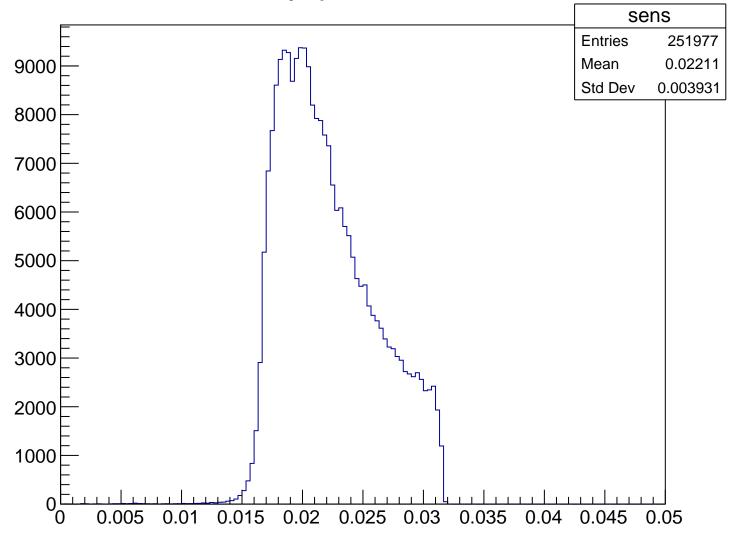


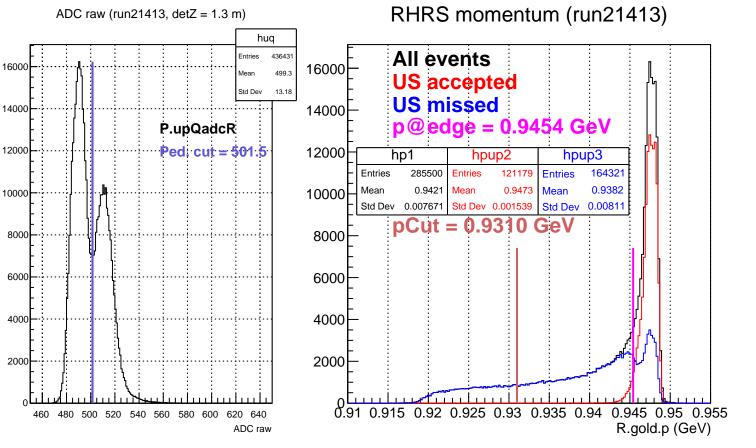
Stretched Asym. (ppm), pCut = 0.930 GeV





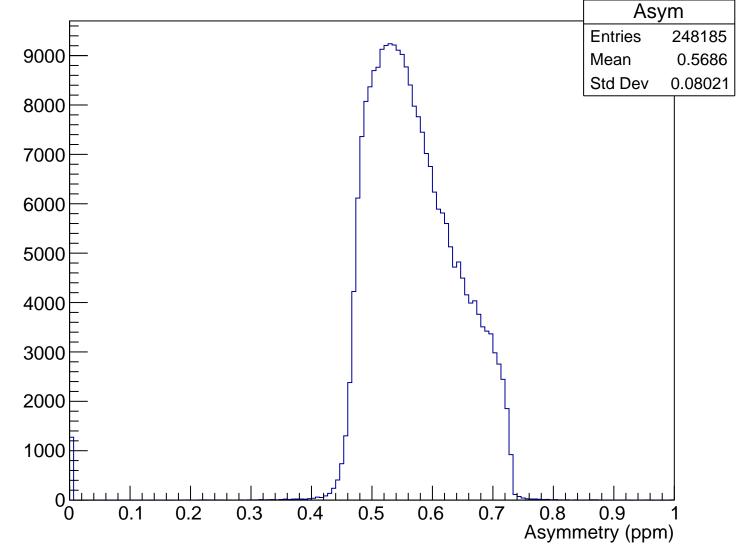
Sensitivity, pCut = 0.930 GeV



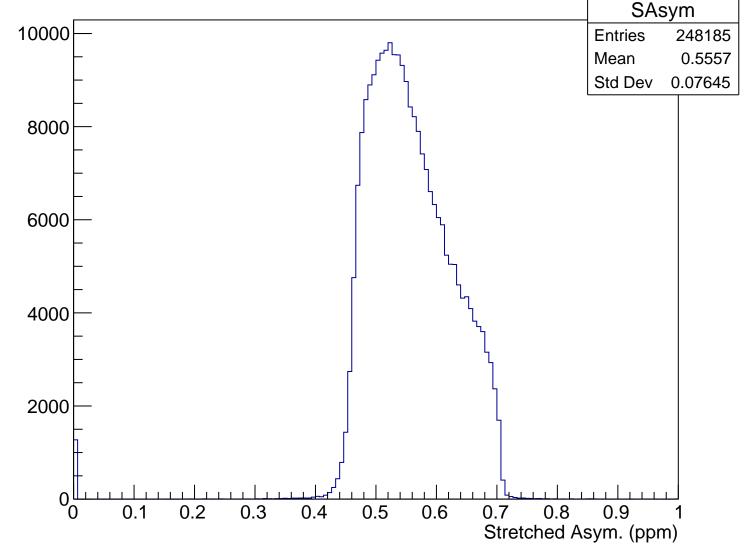


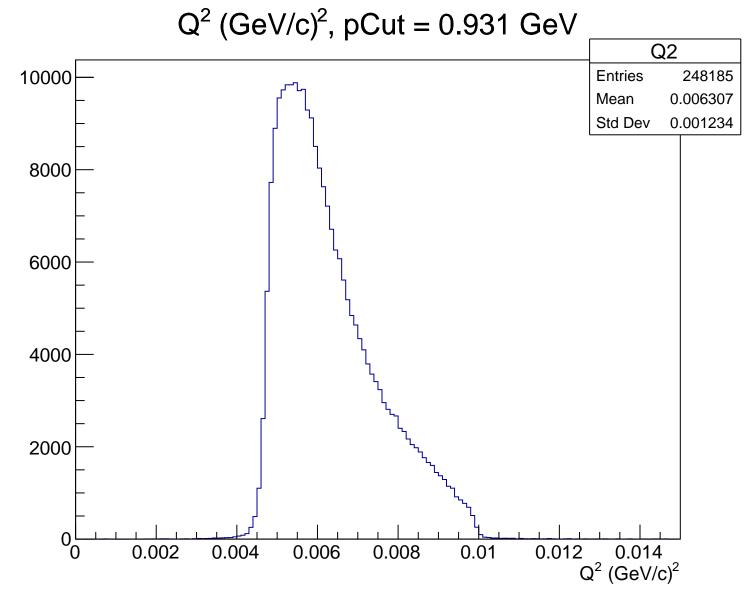
 $\theta_{lab}$  (deg), pCut = 0.931 GeV Theta 10000 **Entries** 248185 Mean 4.784 Std Dev 0.458 8000 6000 4000 2000 5  $\theta_{lab}$  (deg)

### Asymmetry (ppm), pCut = 0.931 GeV

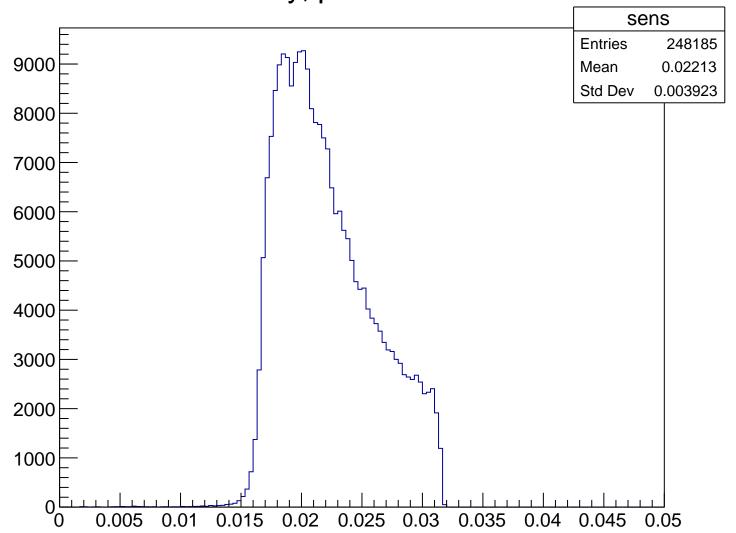


Stretched Asym. (ppm), pCut = 0.931 GeV





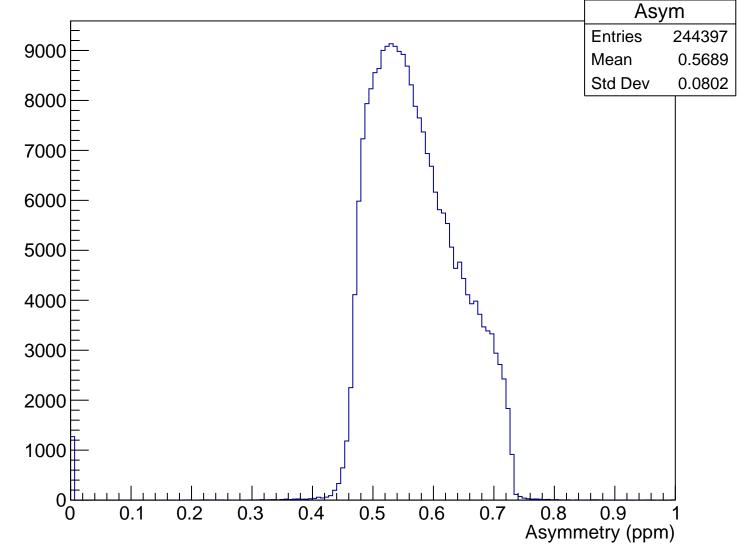
Sensitivity, pCut = 0.931 GeV



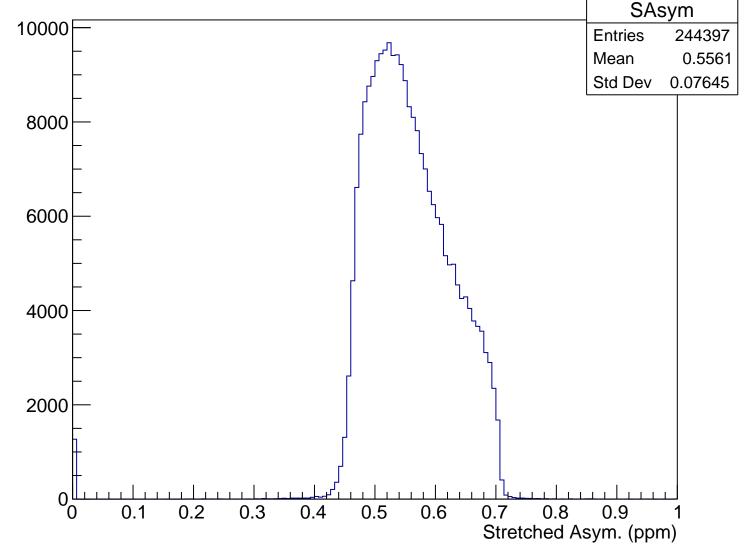
RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries Mean 0.9421 0.9473 0.9382 Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9320 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 500 520 540 560 580 600 R.gold.p (GeV) ADC raw

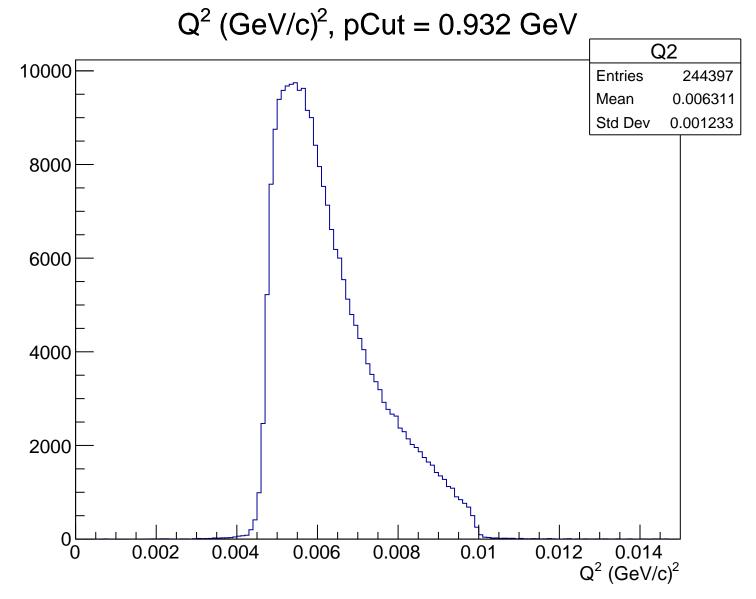
 $\theta_{lab}$  (deg), pCut = 0.932 GeV Theta 10000 **Entries** 244397 Mean 4.785 Std Dev 0.4572 8000 6000 4000 2000 0, 5  $\theta_{lab}$  (deg)

### Asymmetry (ppm), pCut = 0.932 GeV

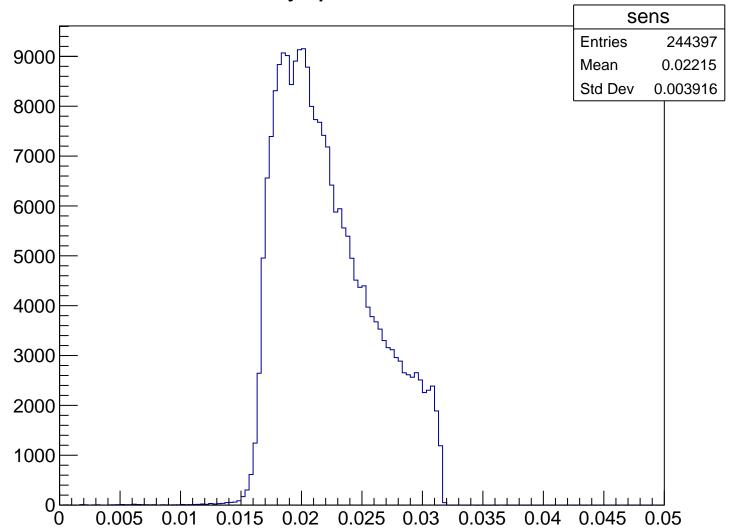


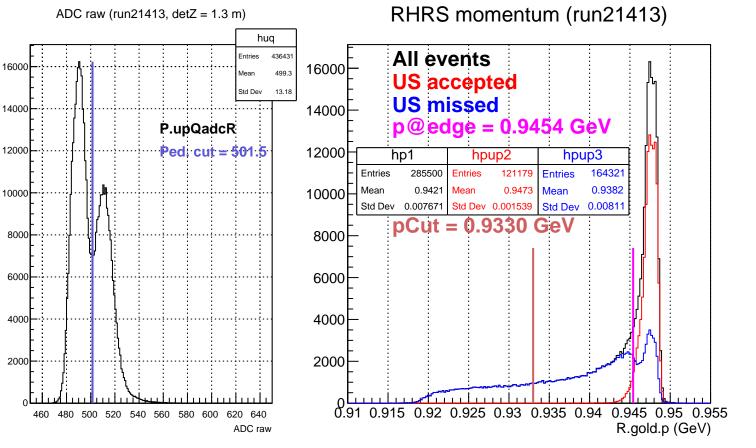
Stretched Asym. (ppm), pCut = 0.932 GeV



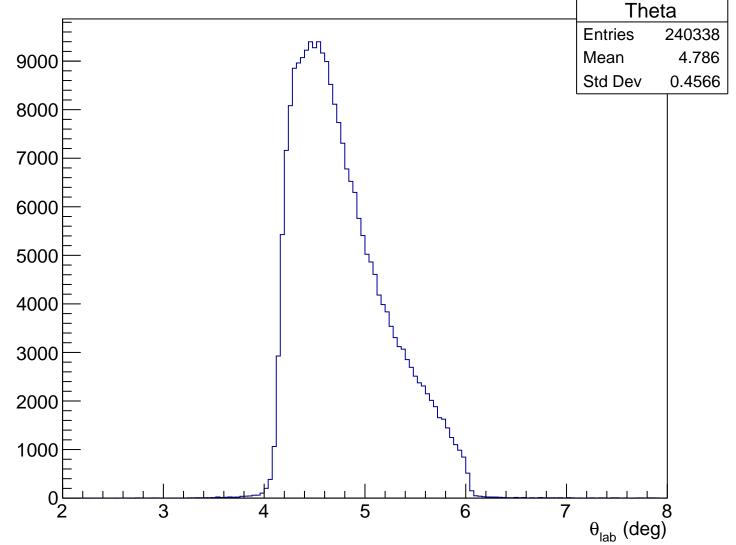


Sensitivity, pCut = 0.932 GeV

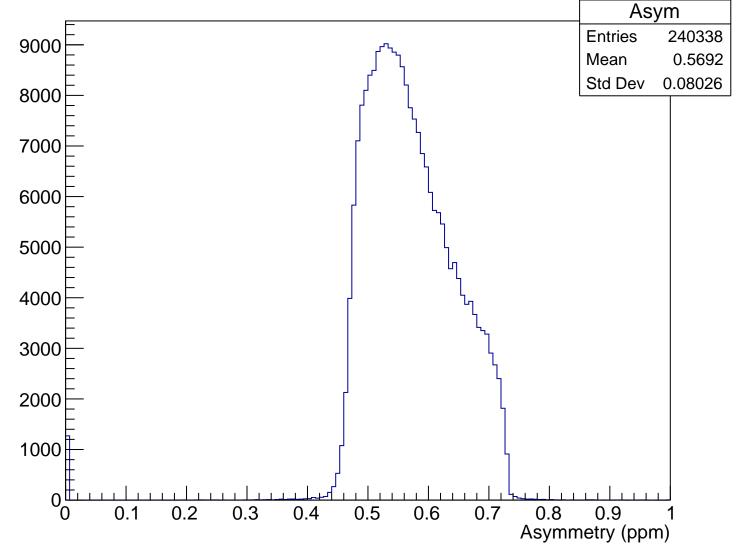




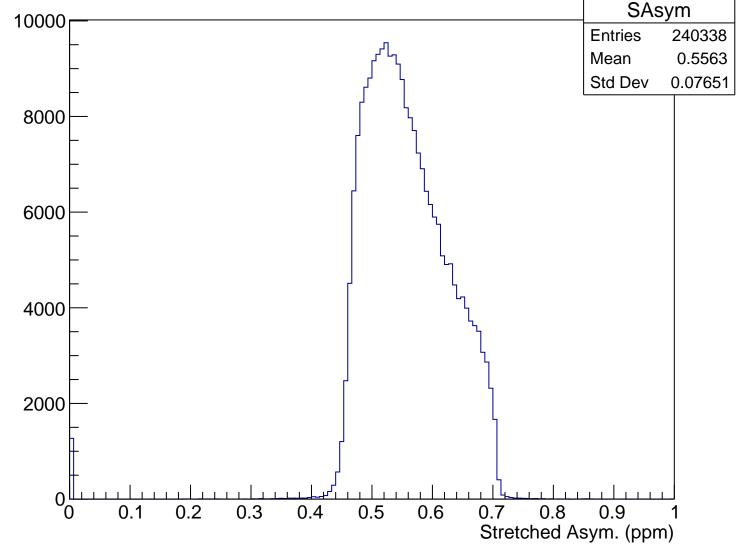
 $\theta_{lab}$  (deg), pCut = 0.933 GeV

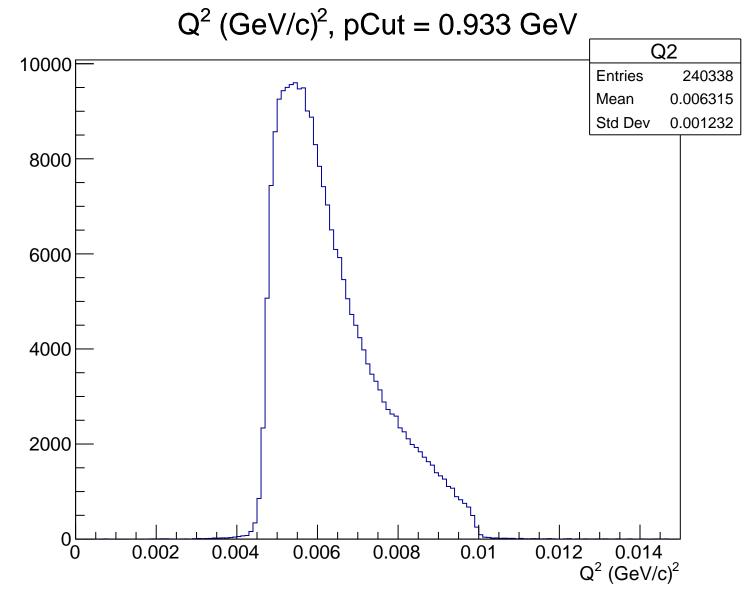


### Asymmetry (ppm), pCut = 0.933 GeV

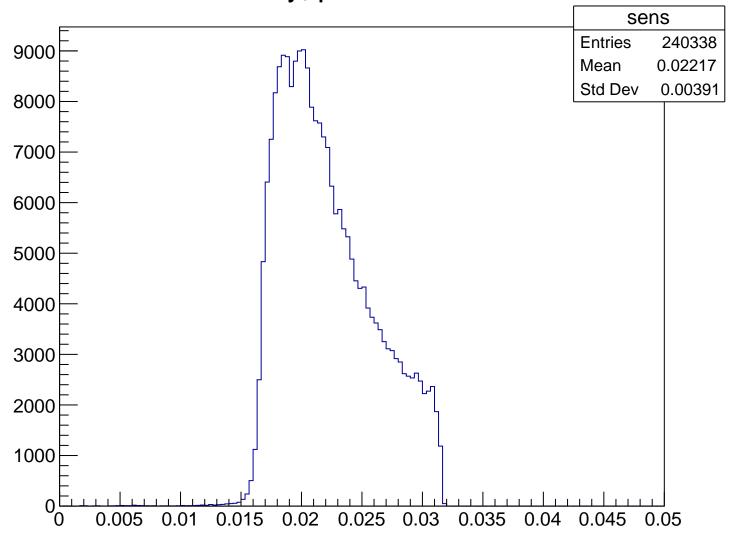


Stretched Asym. (ppm), pCut = 0.933 GeV



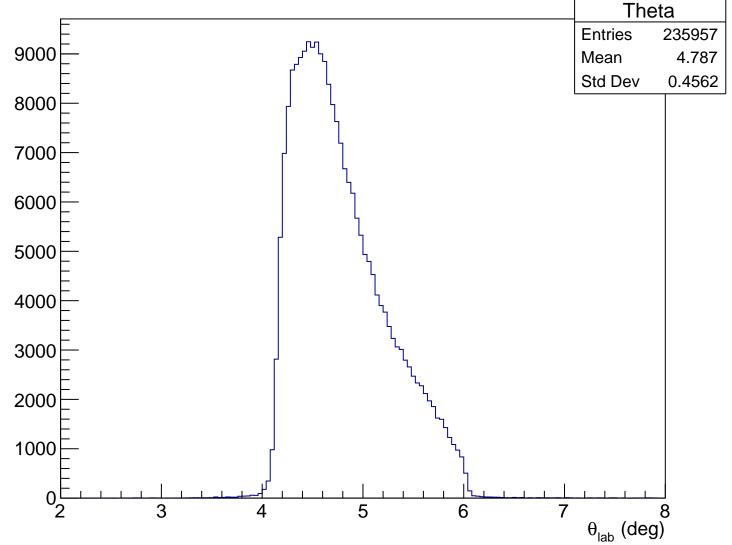


Sensitivity, pCut = 0.933 GeV

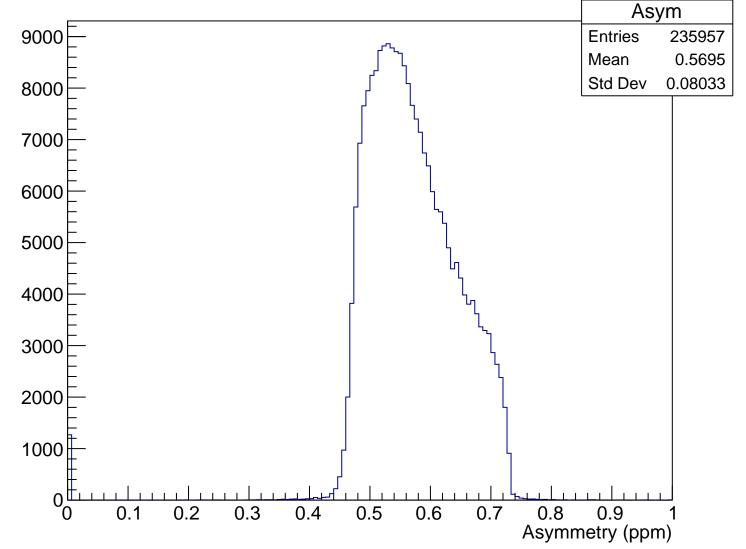


RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries Mean 0.9421 0.9473 0.9382 Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9340 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 500 520 540 560 580 600 R.gold.p (GeV) ADC raw

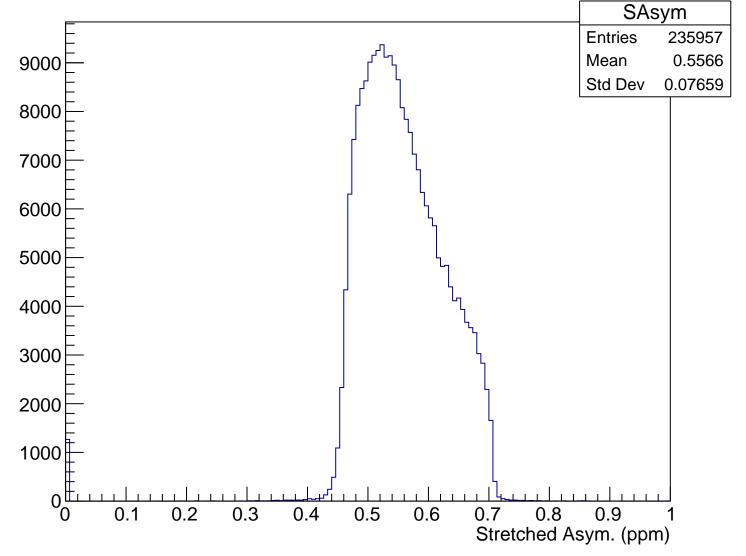
 $\theta_{lab}$  (deg), pCut = 0.934 GeV

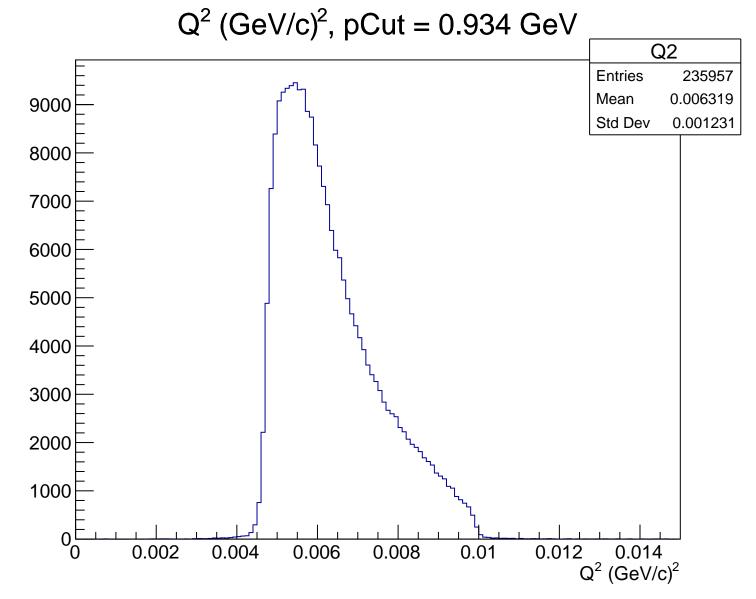


### Asymmetry (ppm), pCut = 0.934 GeV

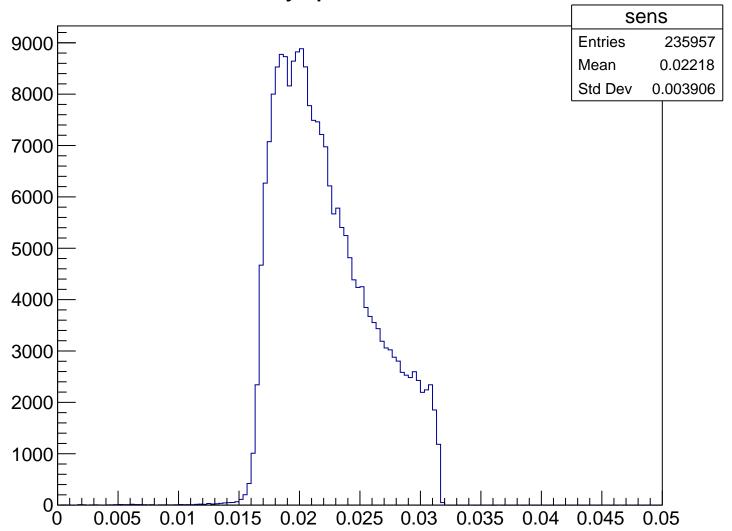


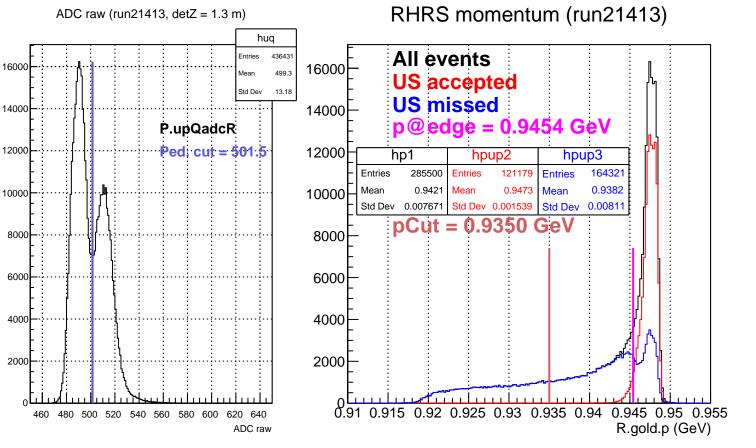
#### Stretched Asym. (ppm), pCut = 0.934 GeV



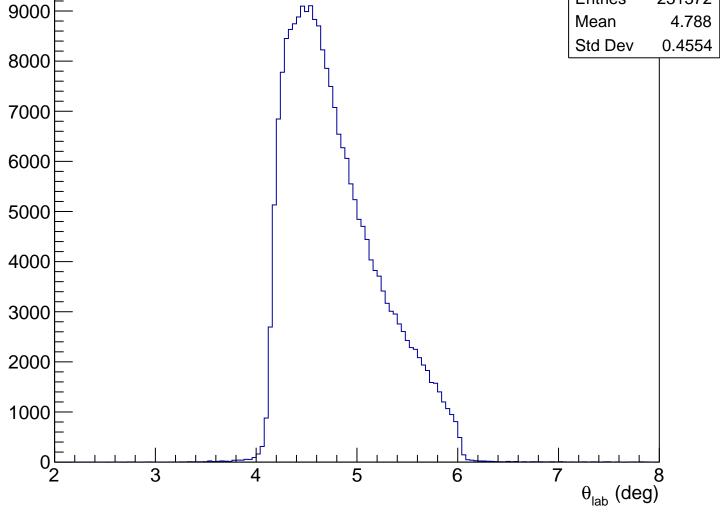


Sensitivity, pCut = 0.934 GeV

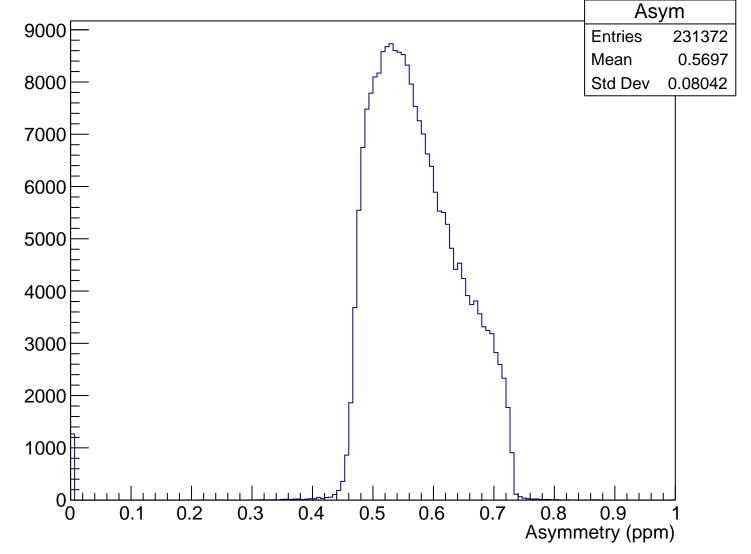




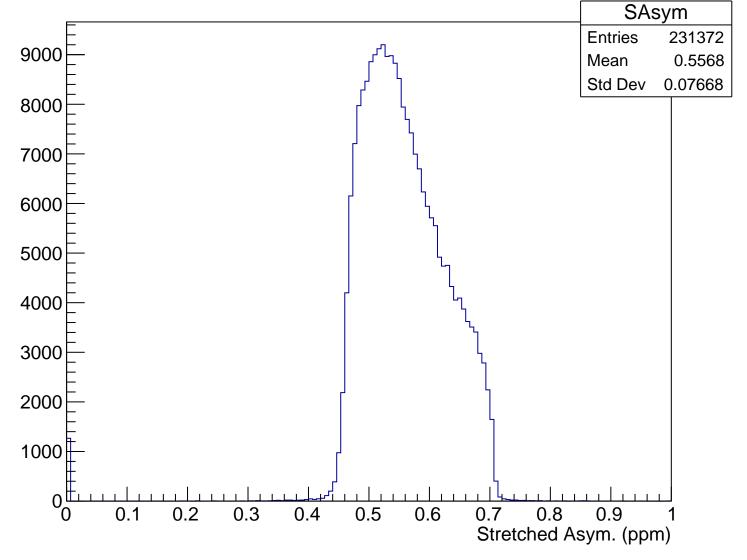
 $\theta_{lab}$  (deg), pCut = 0.935 GeV Theta **Entries** 231372 Mean Std Dev

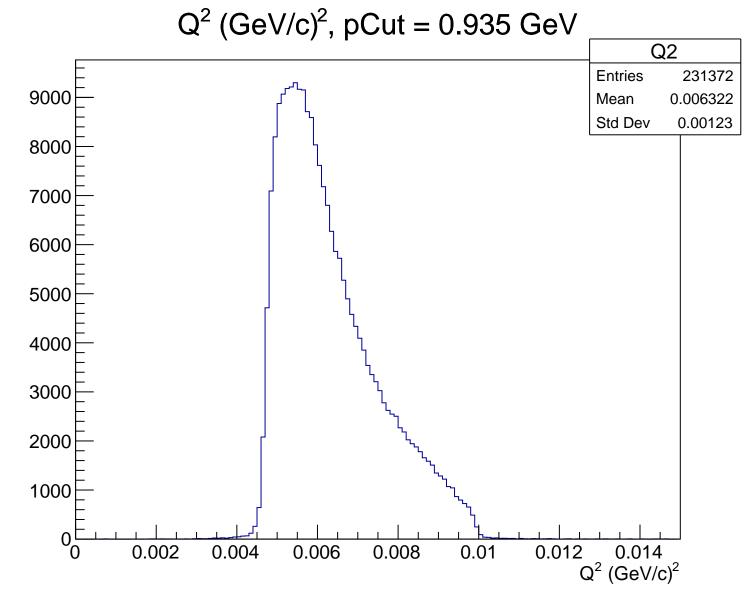


## Asymmetry (ppm), pCut = 0.935 GeV

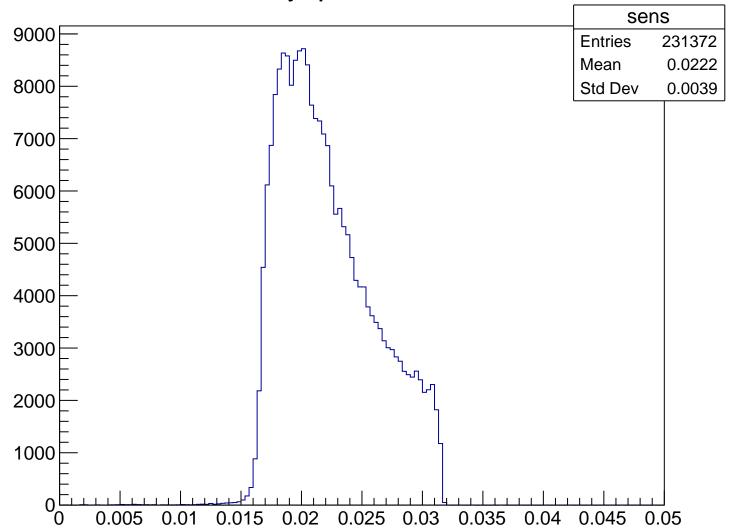


#### Stretched Asym. (ppm), pCut = 0.935 GeV





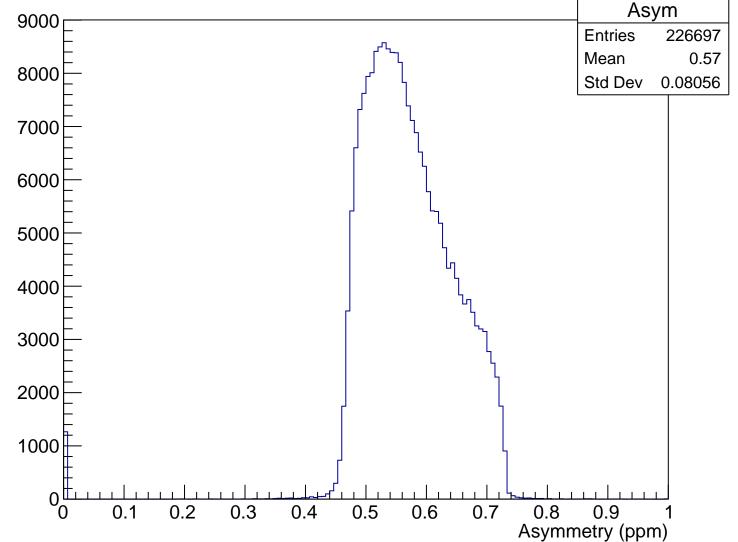
Sensitivity, pCut = 0.935 GeV



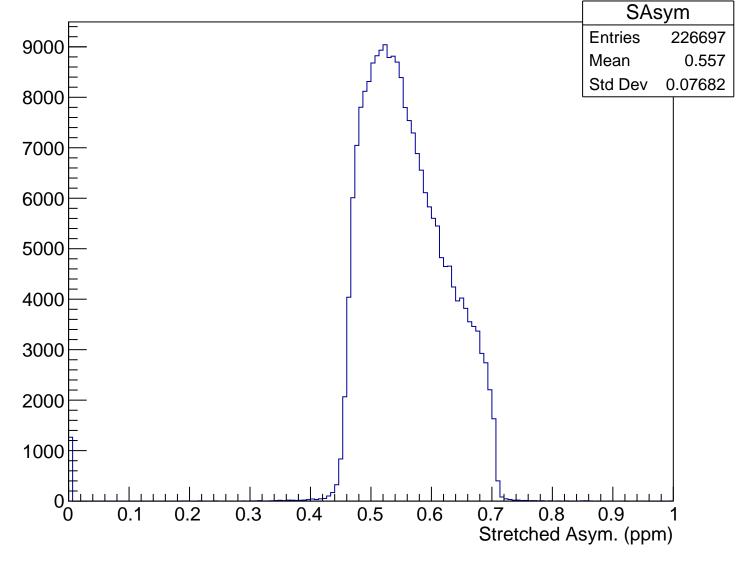
RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries Mean 0.9421 0.9473 0.9382 Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9360 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 500 520 540 560 580 600 R.gold.p (GeV) ADC raw

 $\theta_{lab}$  (deg), pCut = 0.936 GeV Theta 9000 **Entries** 226697 Mean 4.789 Std Dev 0.4551 8000 7000 6000 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.936 GeV

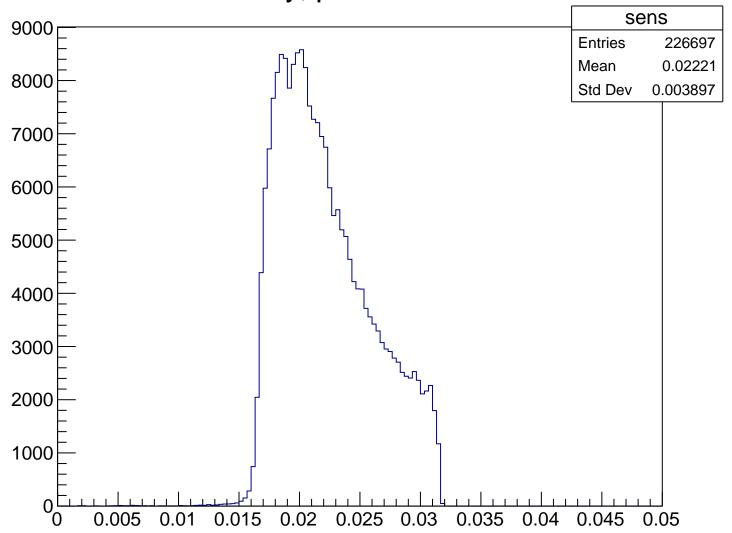


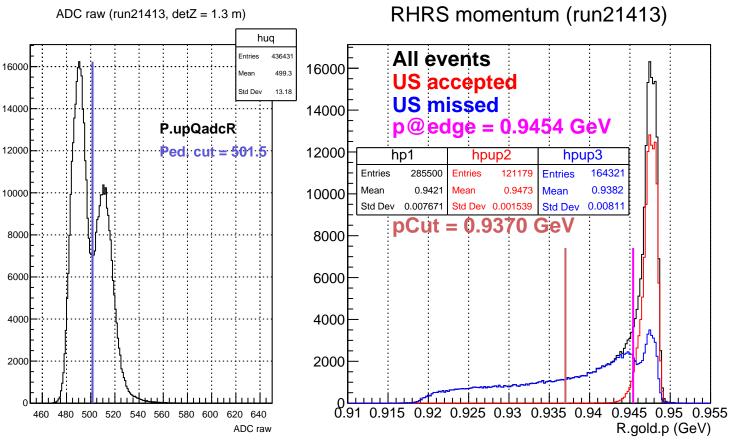
### Stretched Asym. (ppm), pCut = 0.936 GeV



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

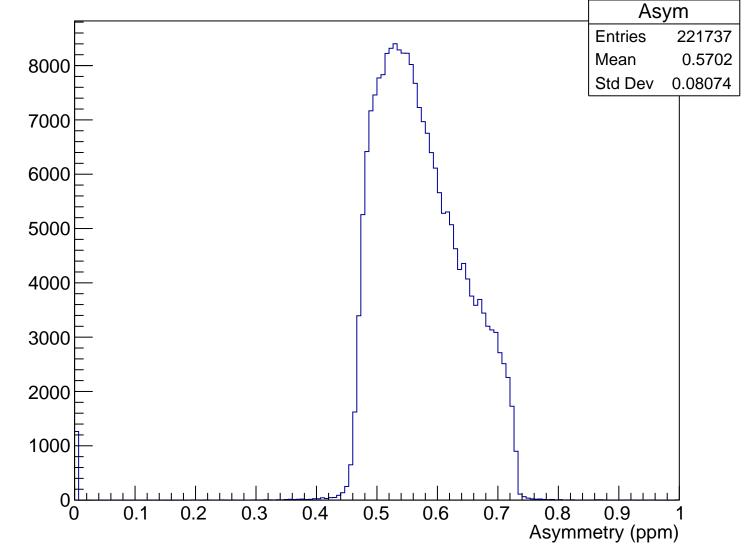
Sensitivity, pCut = 0.936 GeV



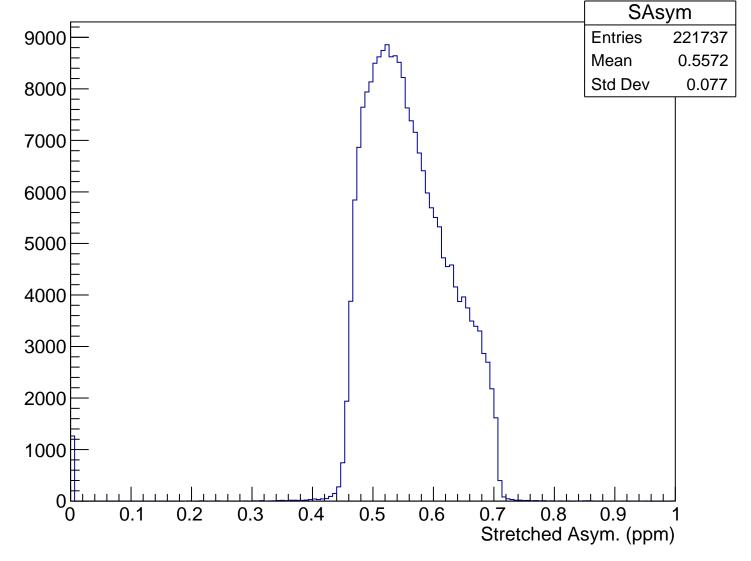


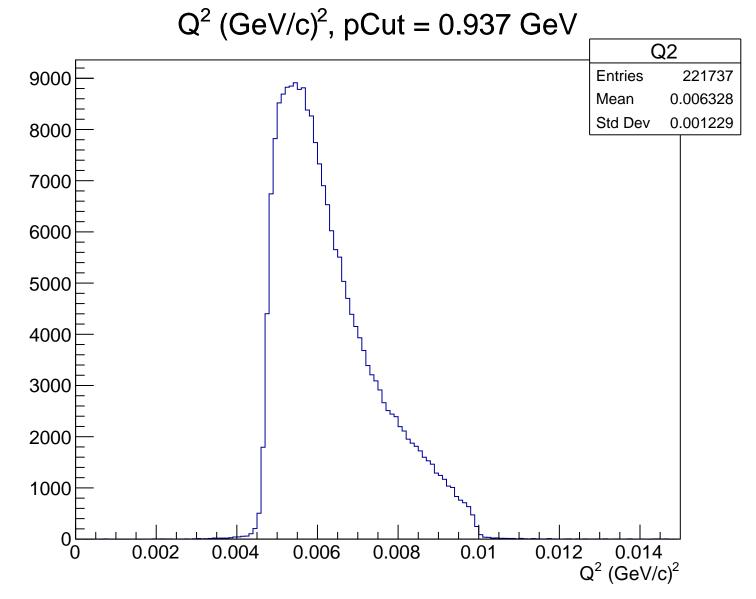
 $\theta_{lab}$  (deg), pCut = 0.937 GeV Theta 9000 **Entries** 221737 Mean 4.789 8000 Std Dev 0.4549 7000 6000 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.937 GeV

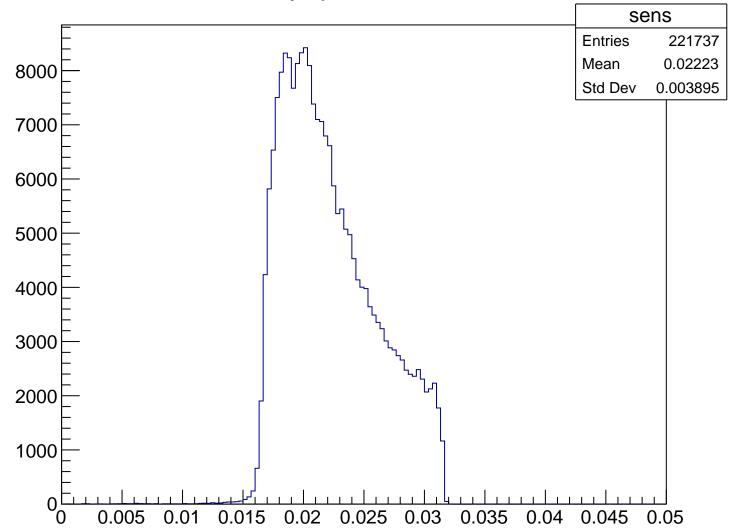


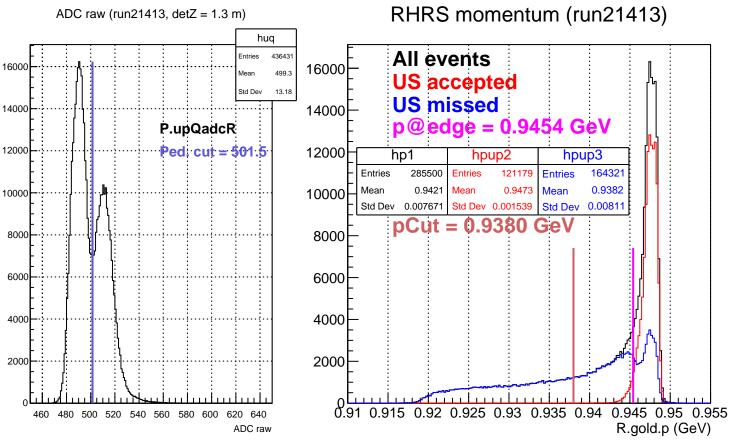
### Stretched Asym. (ppm), pCut = 0.937 GeV





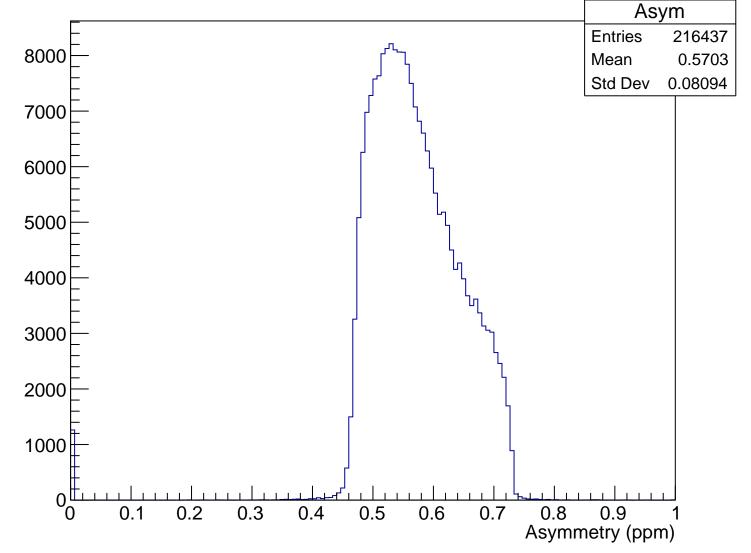
Sensitivity, pCut = 0.937 GeV



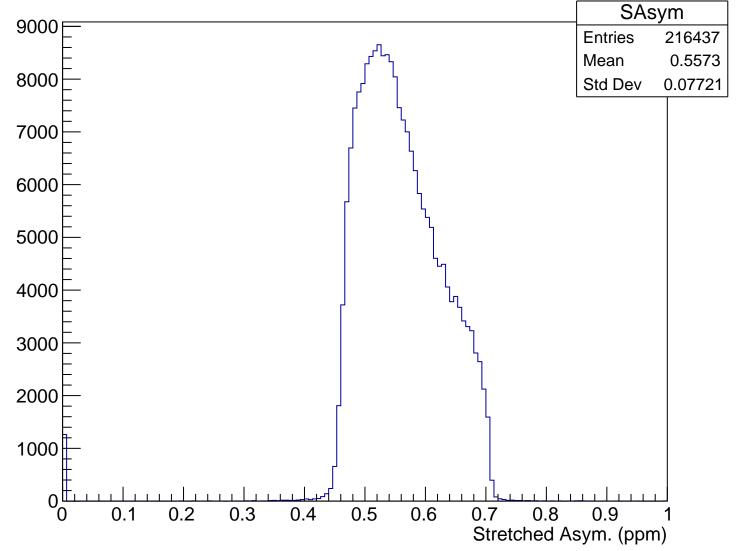


 $\theta_{lab}$  (deg), pCut = 0.938 GeV Theta **Entries** 216437 Mean 4.79 8000 Std Dev 0.4545 7000 6000 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.938 GeV

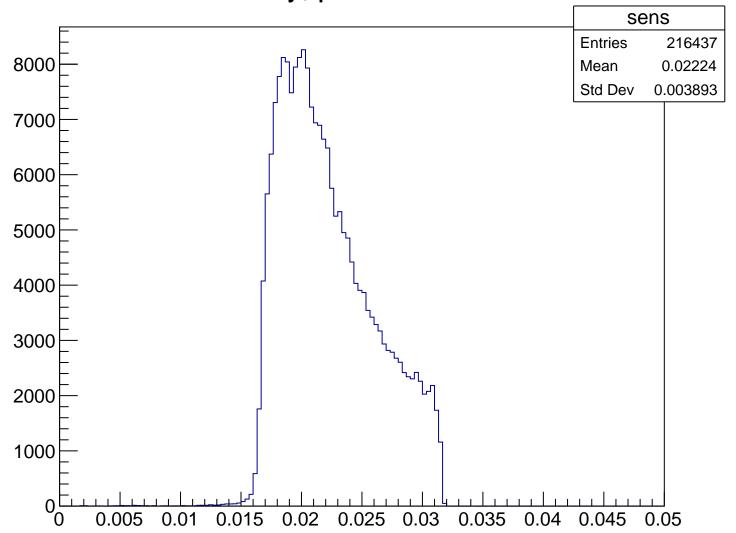


Stretched Asym. (ppm), pCut = 0.938 GeV



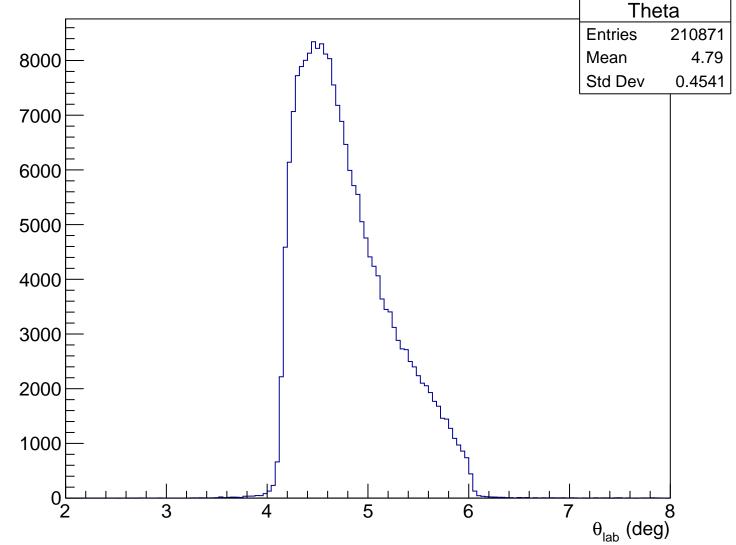
 $Q^{2} (GeV/c)^{2}$ , pCut = 0.938 GeV Q2 9000 **Entries** 216437 0.00633 Mean 8000 Std Dev 0.001228 7000 6000 5000 4000 3000 2000 1000 0 0.014 Q² (GeV/c)² 0.002 0.004 0.006 0.01 0.012 0.008

Sensitivity, pCut = 0.938 GeV

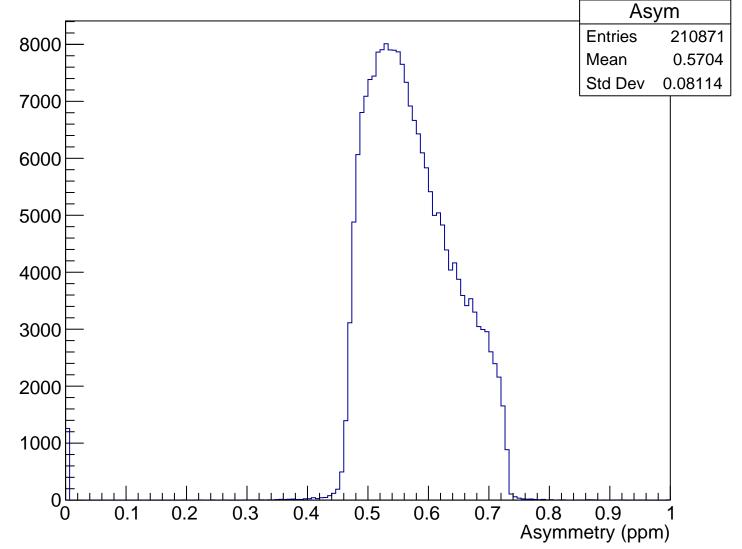


RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries Mean 0.9421 0.9473 0.9382 Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9390 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 500 520 540 560 580 600 R.gold.p (GeV) ADC raw

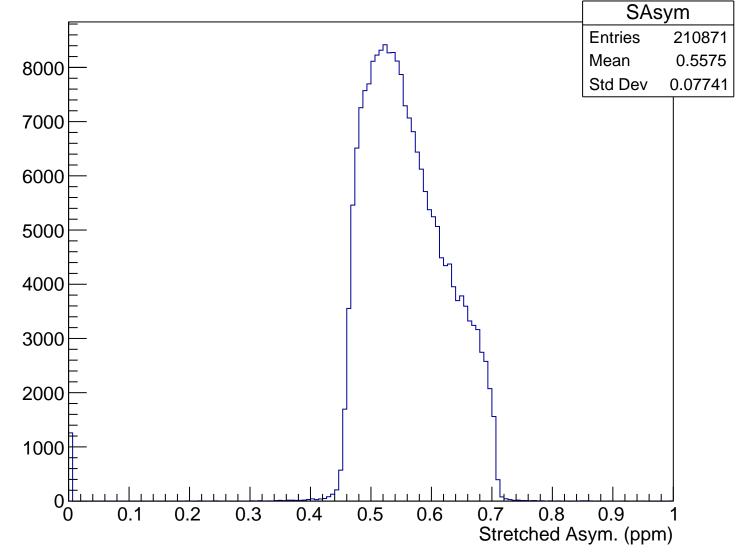
 $\theta_{lab}$  (deg), pCut = 0.939 GeV



# Asymmetry (ppm), pCut = 0.939 GeV

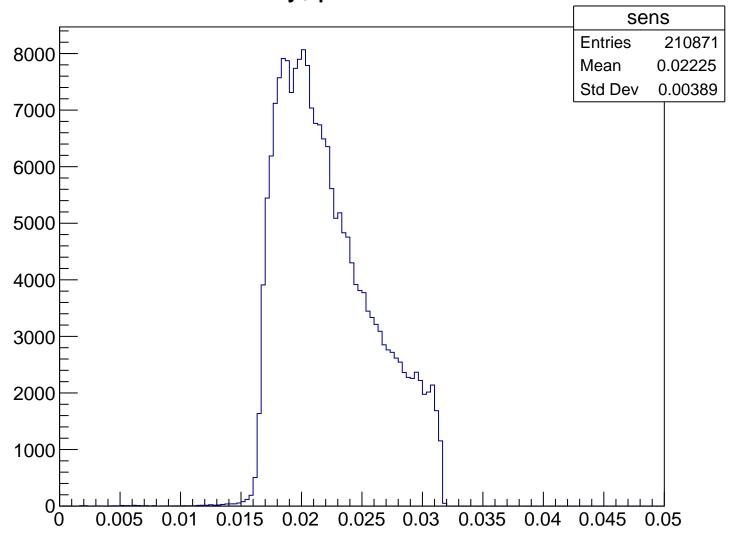


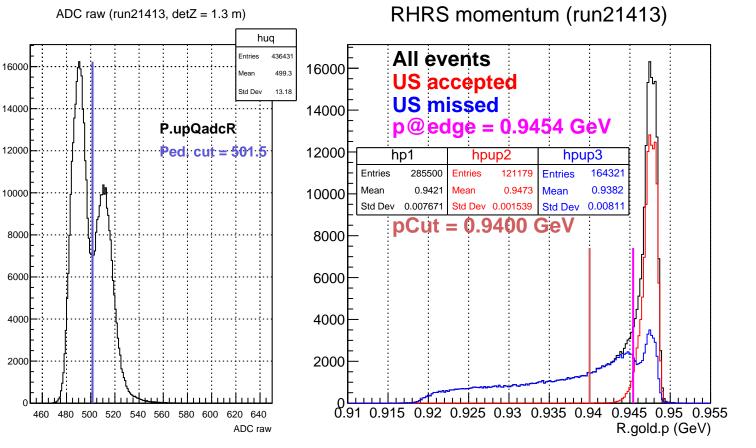
### Stretched Asym. (ppm), pCut = 0.939 GeV



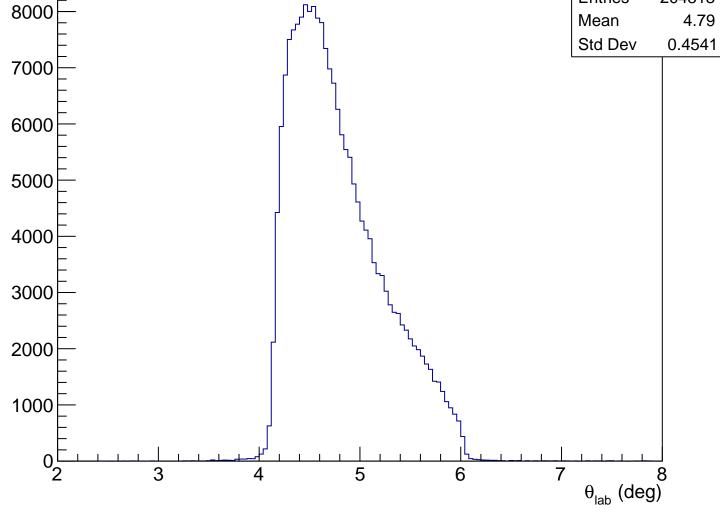
 $Q^{2} (GeV/c)^{2}$ , pCut = 0.939 GeV Q2 **Entries** 210871 0.006332 Mean 8000 Std Dev 0.001227 7000 6000 5000 4000 3000 2000 1000 0 0.014 Q² (GeV/c)² 0.002 0.004 0.006 0.01 0.012 0.008

Sensitivity, pCut = 0.939 GeV

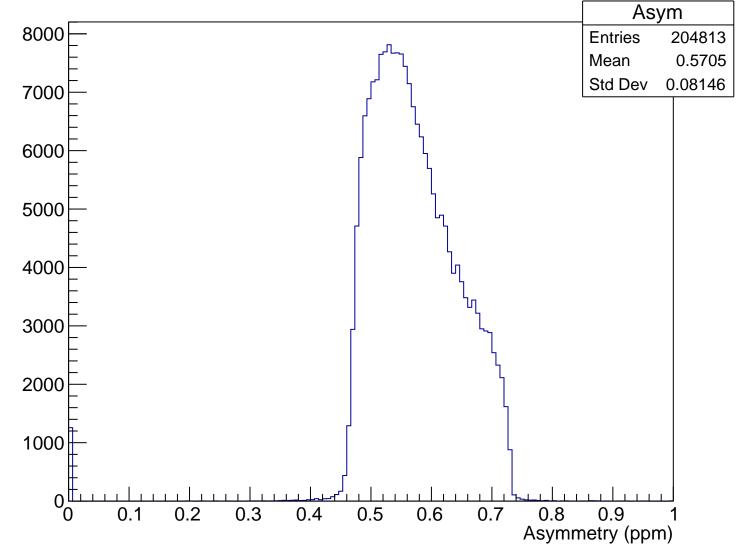




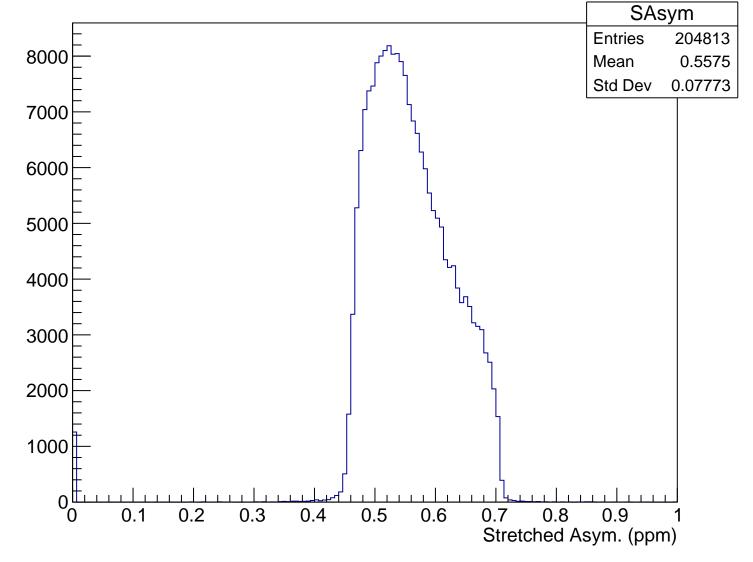
 $\theta_{lab}$  (deg), pCut = 0.940 GeV Theta **Entries** 204813 Mean Std Dev

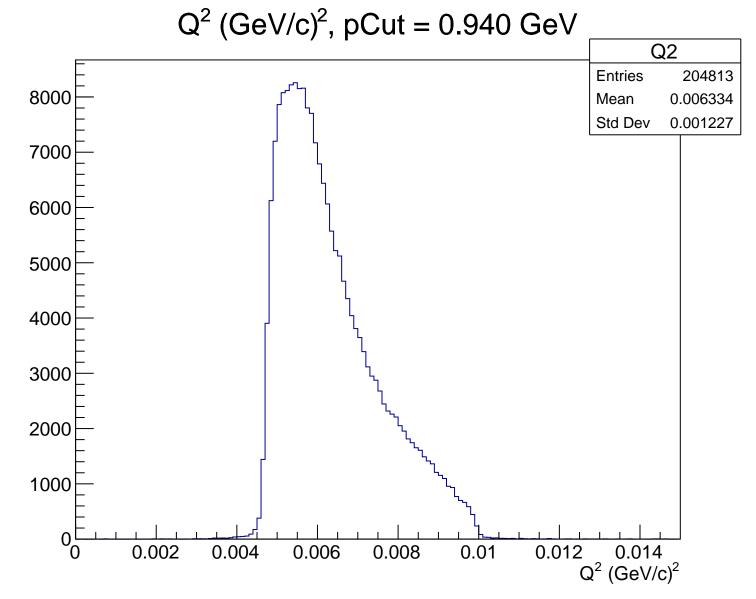


## Asymmetry (ppm), pCut = 0.940 GeV

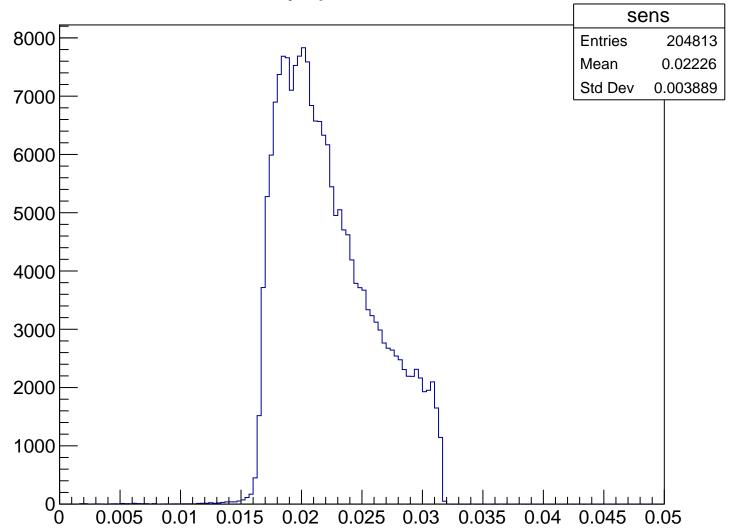


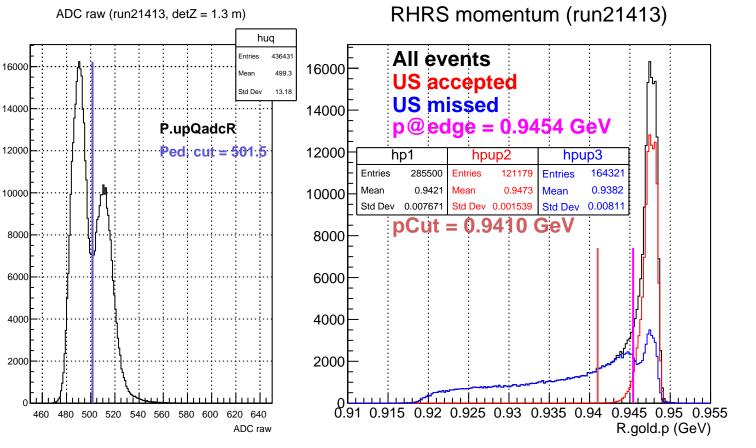
#### Stretched Asym. (ppm), pCut = 0.940 GeV





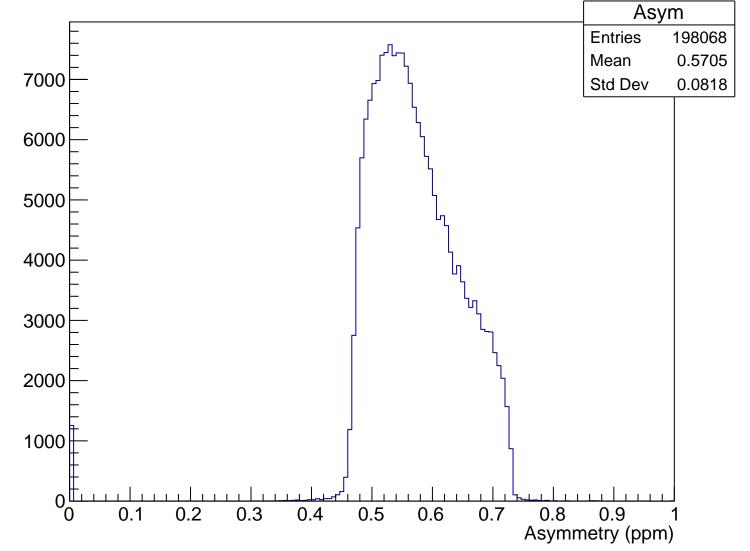
Sensitivity, pCut = 0.940 GeV



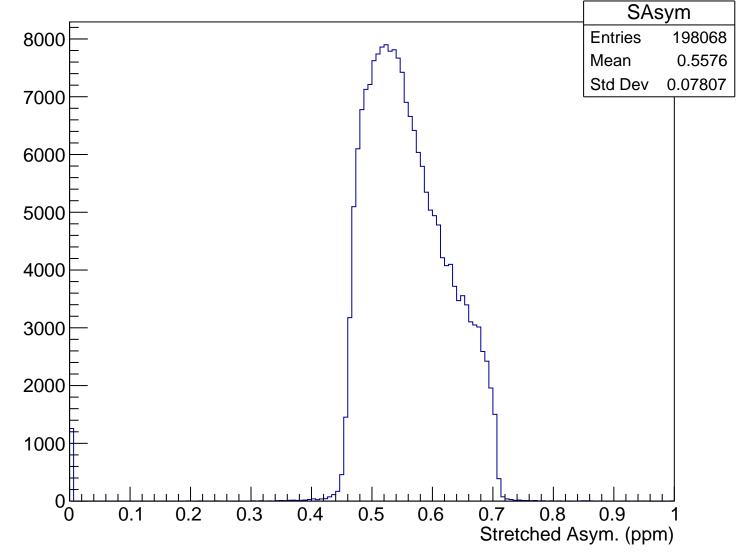


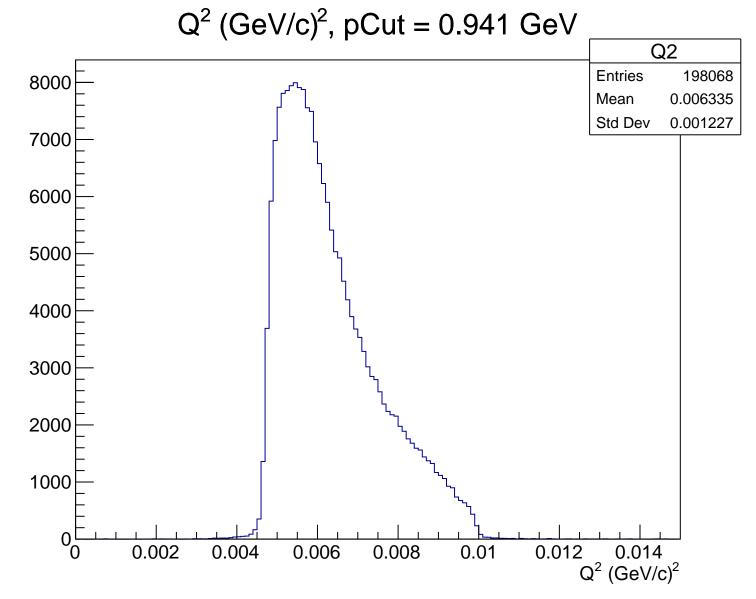
 $\theta_{lab}$  (deg), pCut = 0.941 GeV Theta 8000 **Entries** 198068 Mean 4.79 Std Dev 0.4536 7000 6000 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

## Asymmetry (ppm), pCut = 0.941 GeV

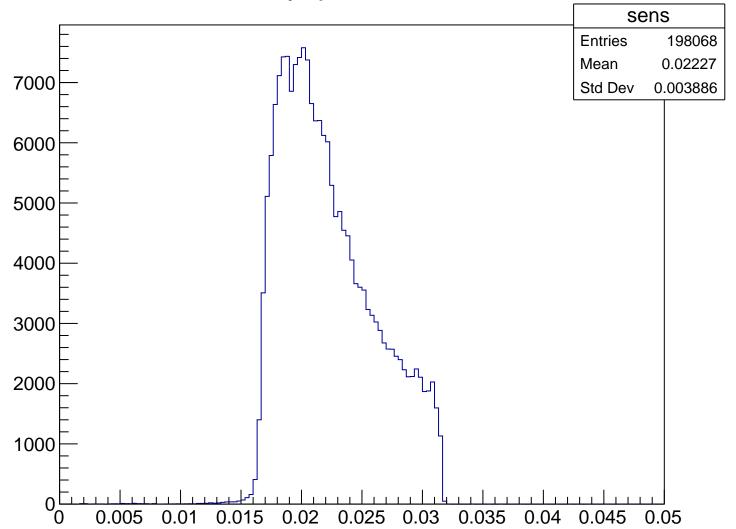


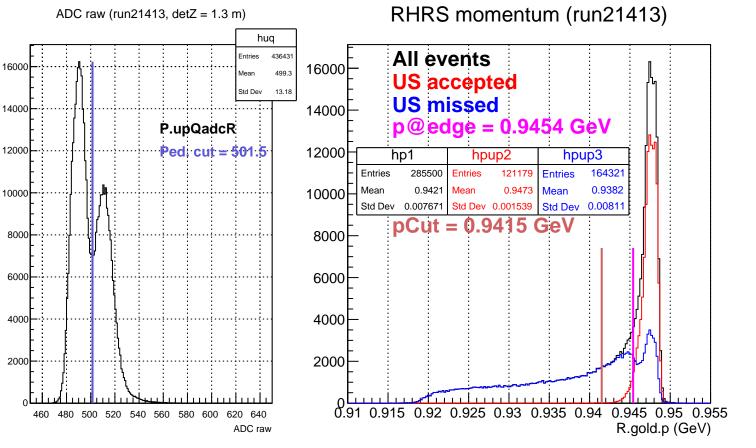
### Stretched Asym. (ppm), pCut = 0.941 GeV





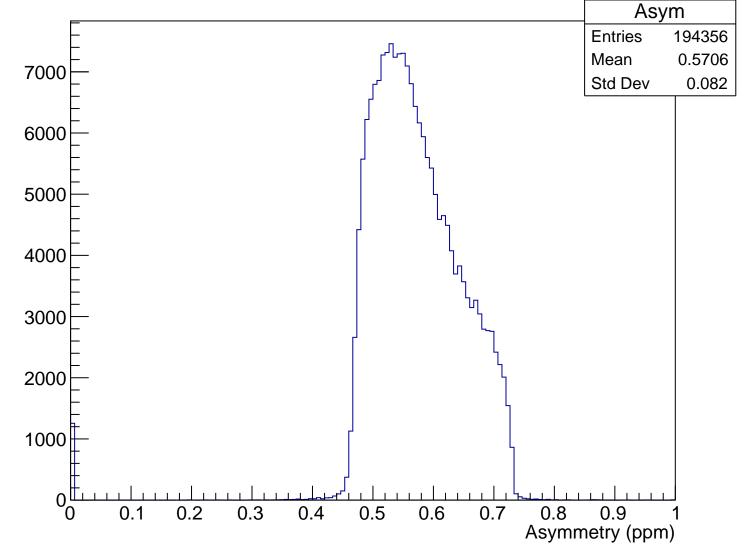
Sensitivity, pCut = 0.941 GeV



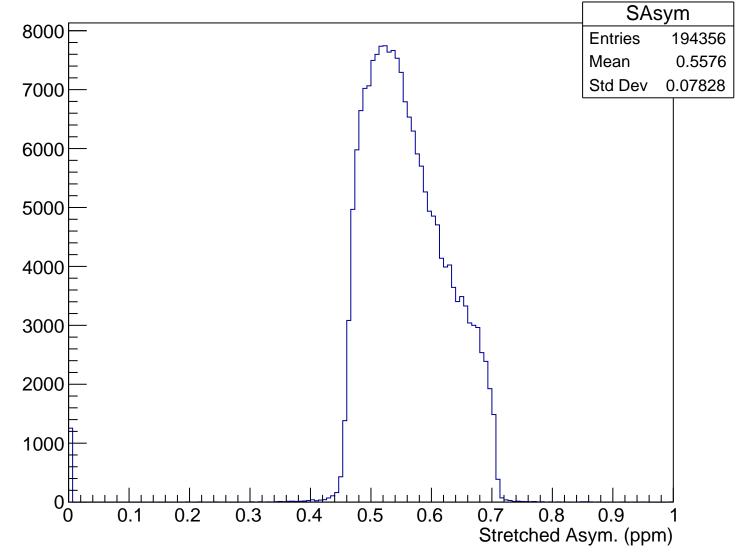


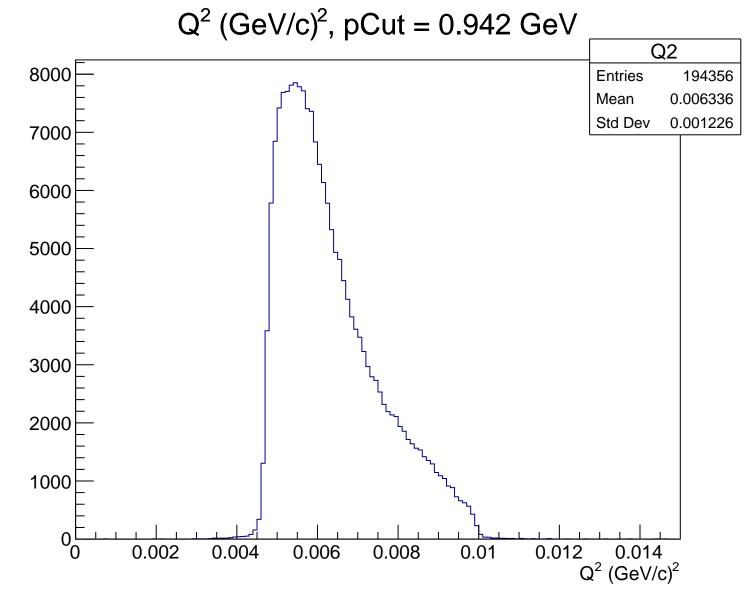
 $\theta_{lab}$  (deg), pCut = 0.942 GeV Theta 8000 **Entries** 194356 Mean 4.79 Std Dev 0.4535 7000 6000 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.942 GeV

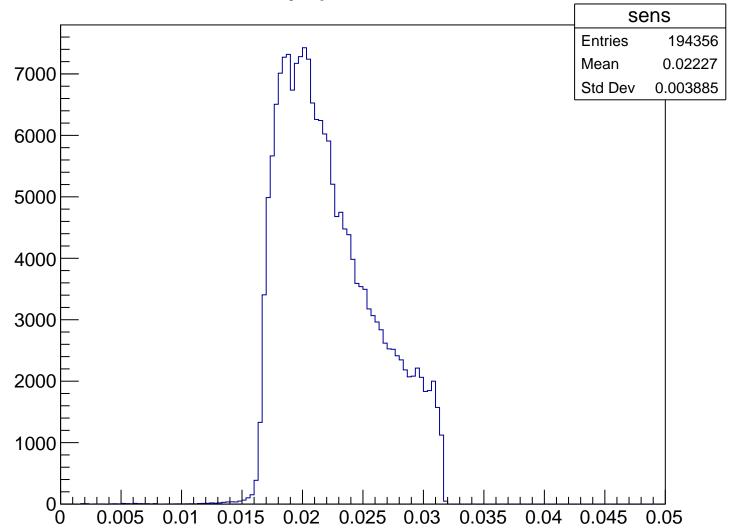


#### Stretched Asym. (ppm), pCut = 0.942 GeV



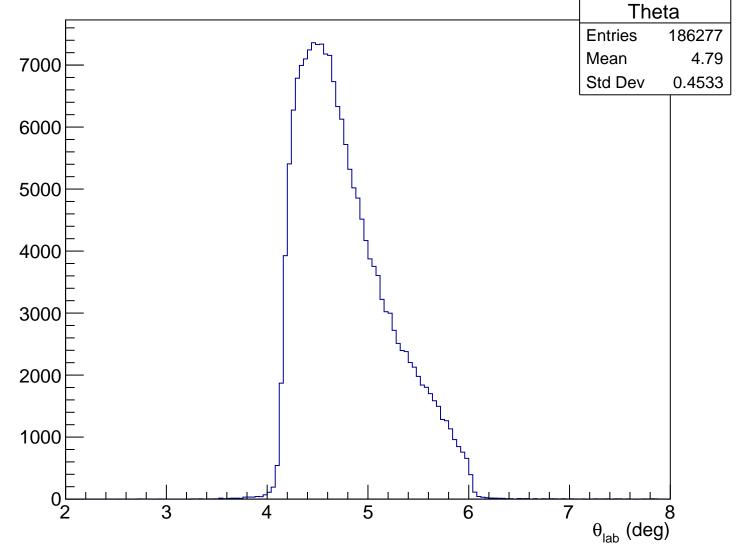


Sensitivity, pCut = 0.942 GeV

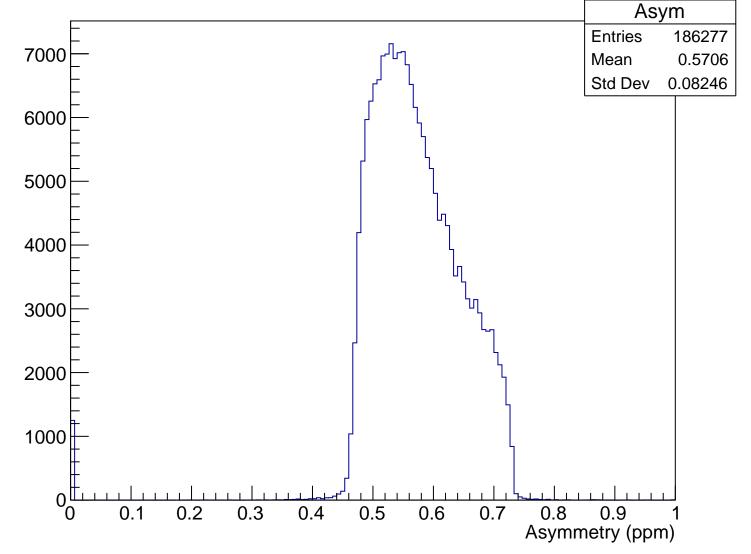


RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries 0.9421 0.9473 0.9382 Mean Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9425 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 500 520 540 560 580 600 R.gold.p (GeV) ADC raw

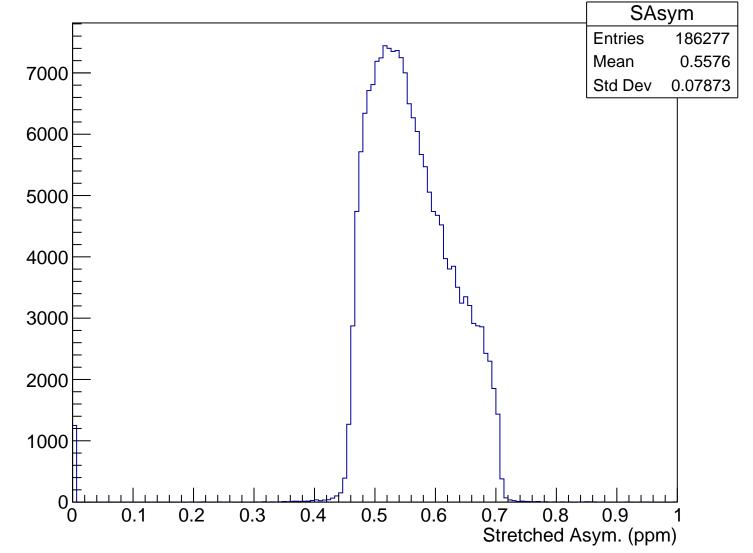
 $\theta_{lab}$  (deg), pCut = 0.943 GeV

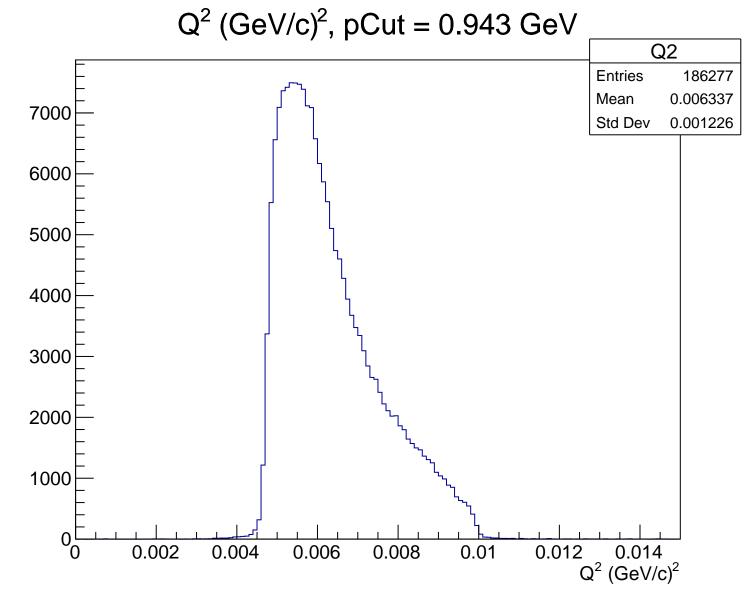


# Asymmetry (ppm), pCut = 0.943 GeV

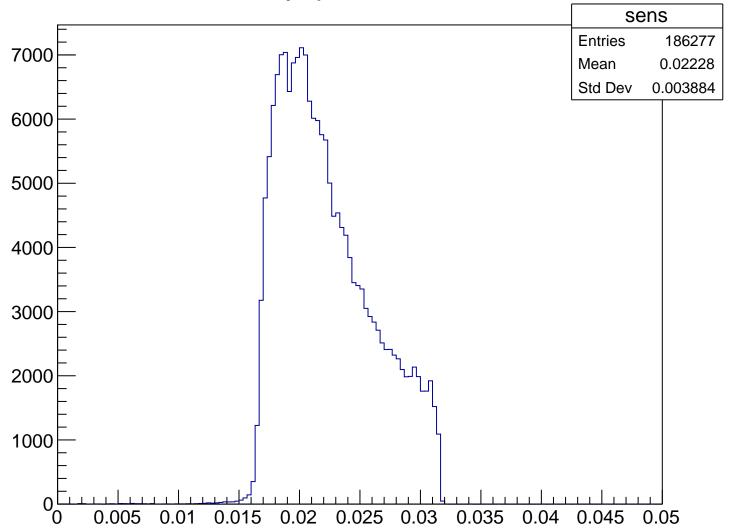


#### Stretched Asym. (ppm), pCut = 0.943 GeV





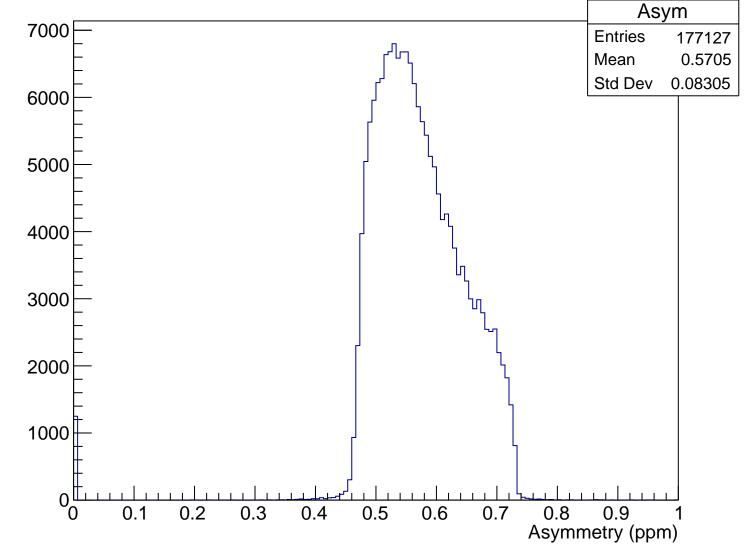
Sensitivity, pCut = 0.943 GeV



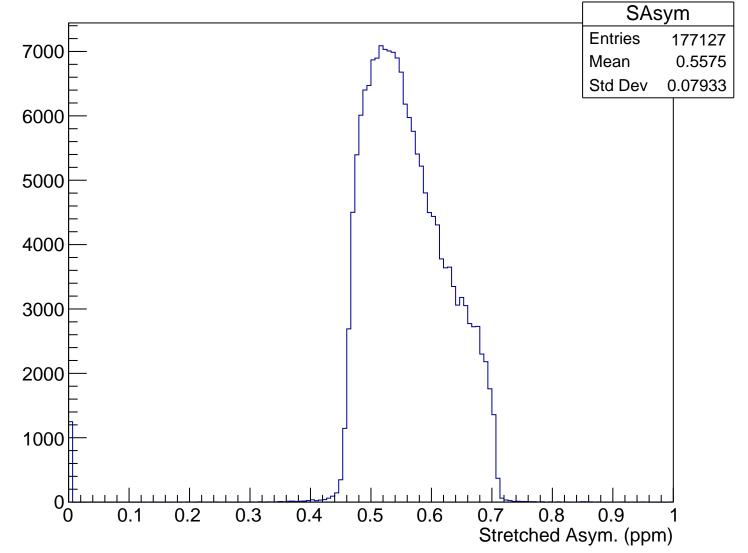
RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries 0.9421 0.9473 0.9382 Mean Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9435 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 520 540 560 580 600 R.gold.p (GeV) ADC raw

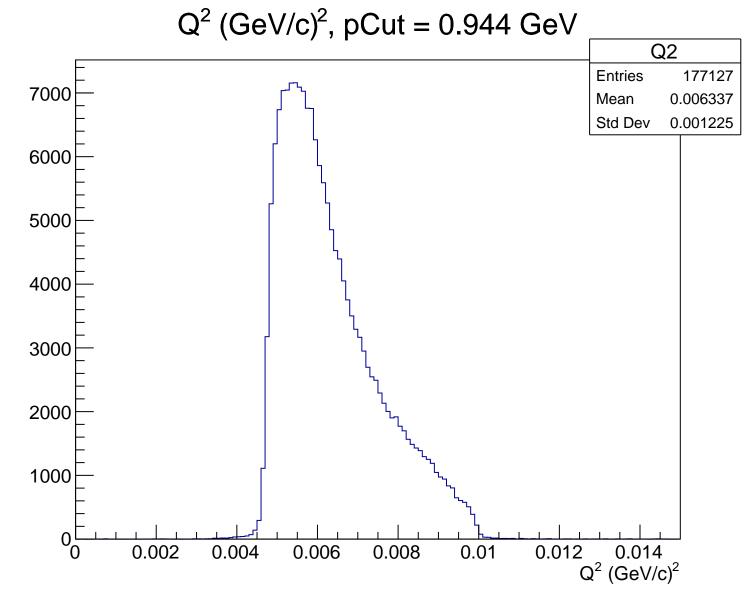
 $\theta_{lab}$  (deg), pCut = 0.944 GeV Theta **Entries** 177127 7000 Mean 4.79 Std Dev 0.4527 6000 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.944 GeV

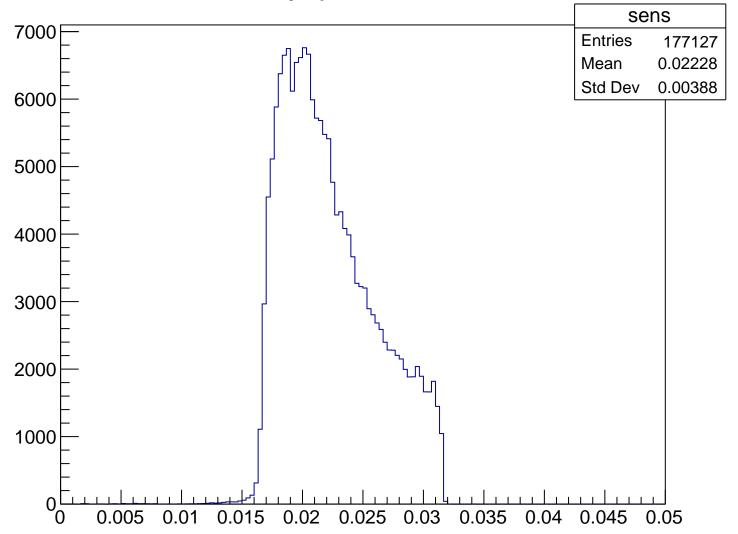


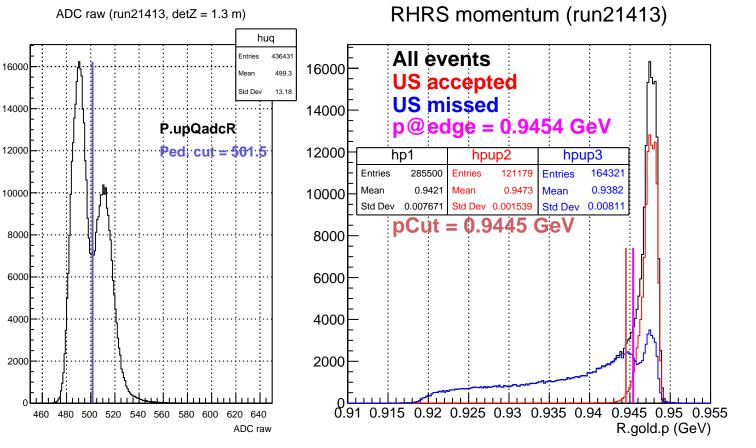
#### Stretched Asym. (ppm), pCut = 0.944 GeV



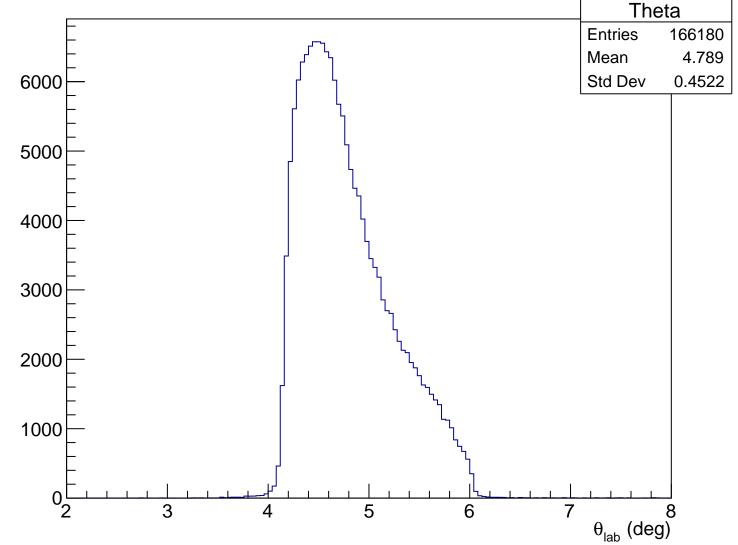


Sensitivity, pCut = 0.944 GeV

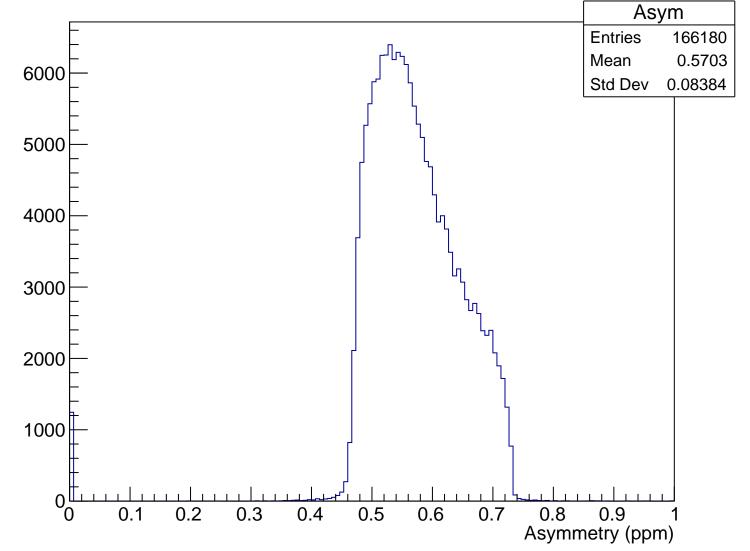




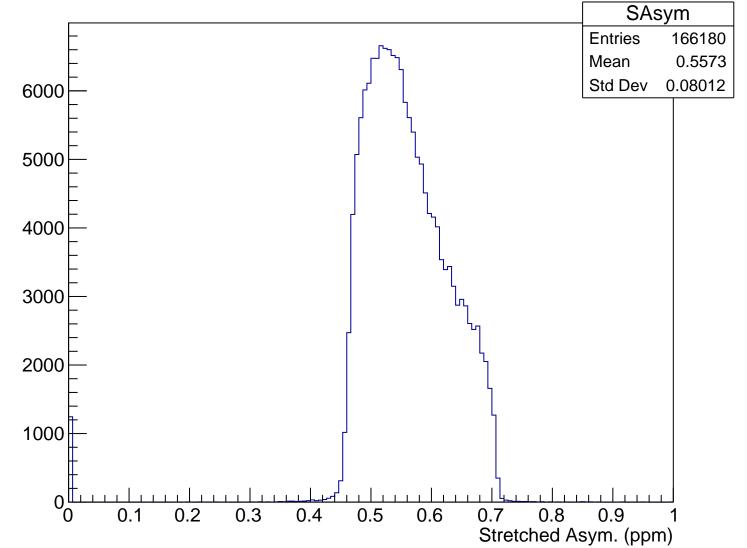
 $\theta_{lab}$  (deg), pCut = 0.945 GeV

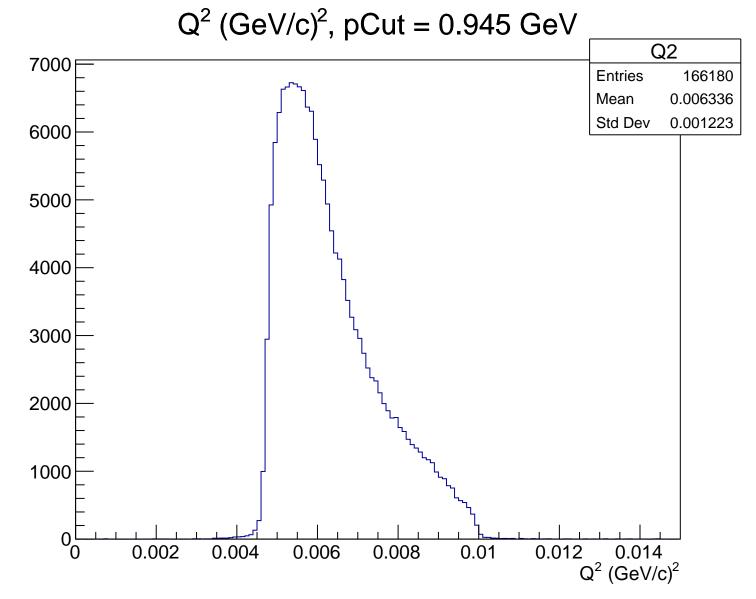


## Asymmetry (ppm), pCut = 0.945 GeV

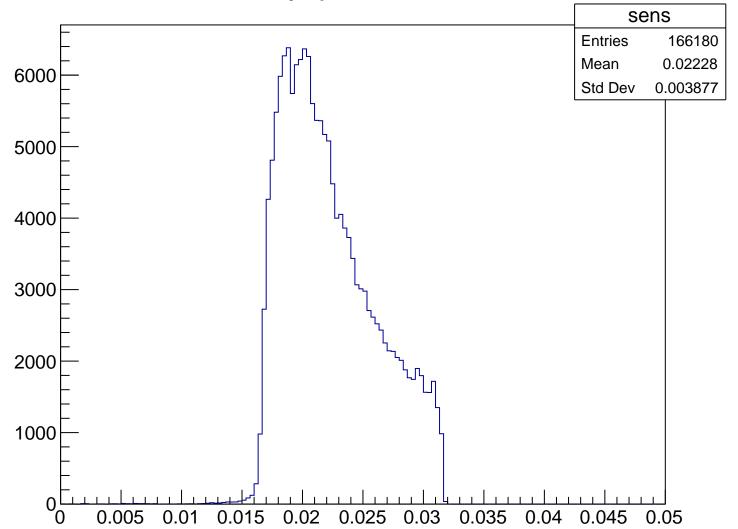


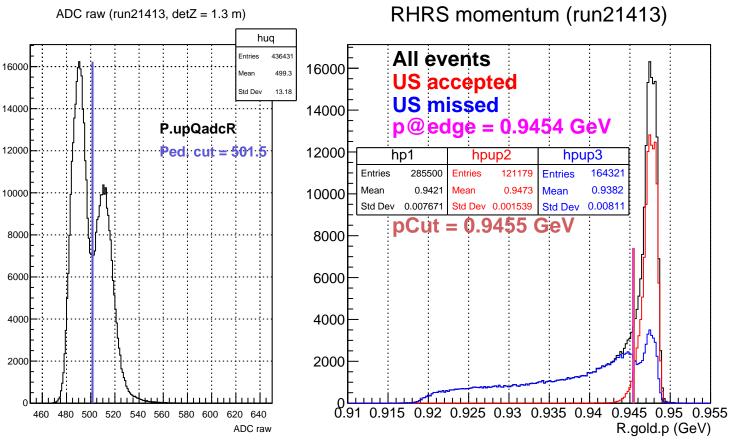
#### Stretched Asym. (ppm), pCut = 0.945 GeV





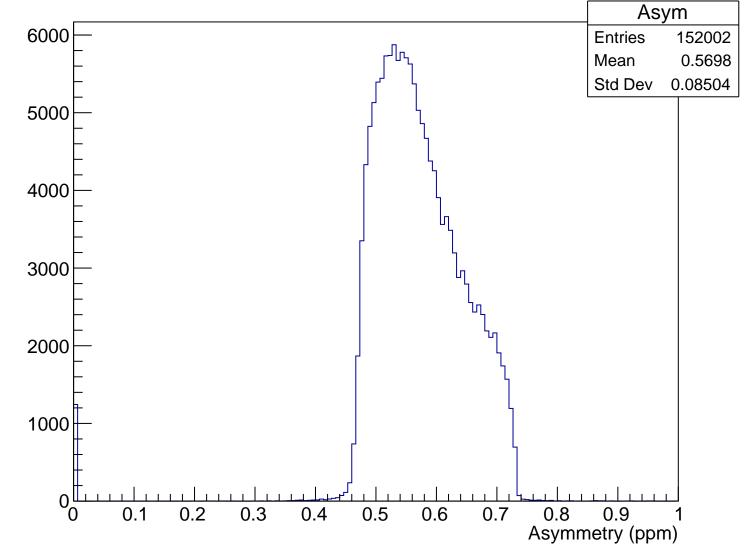
Sensitivity, pCut = 0.945 GeV



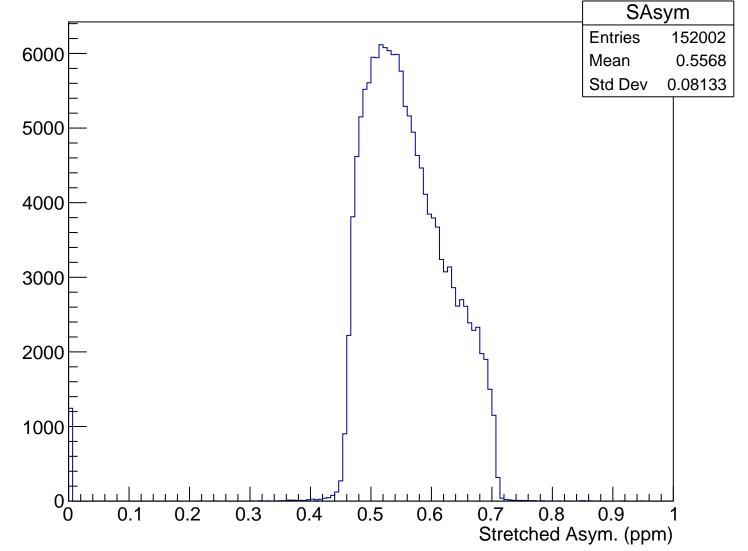


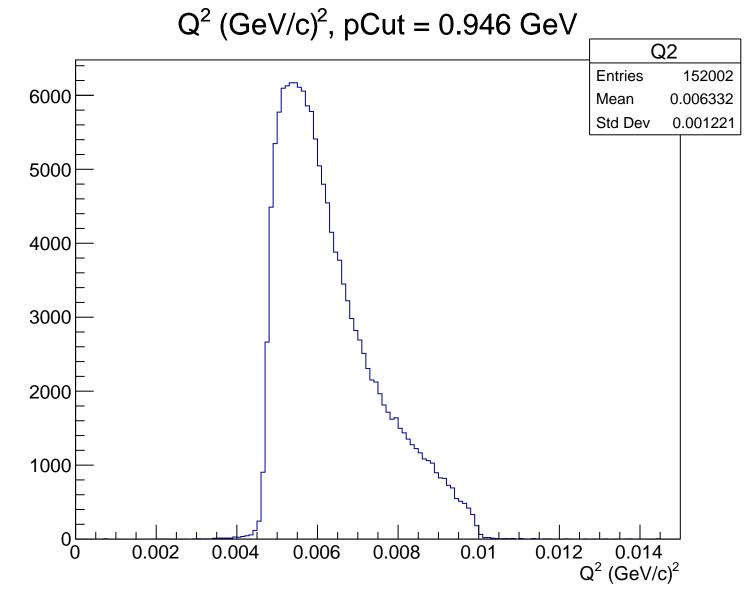
 $\theta_{lab}$  (deg), pCut = 0.946 GeV Theta **Entries** 152002 6000 4.787 Mean Std Dev 0.4512 5000 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

## Asymmetry (ppm), pCut = 0.946 GeV

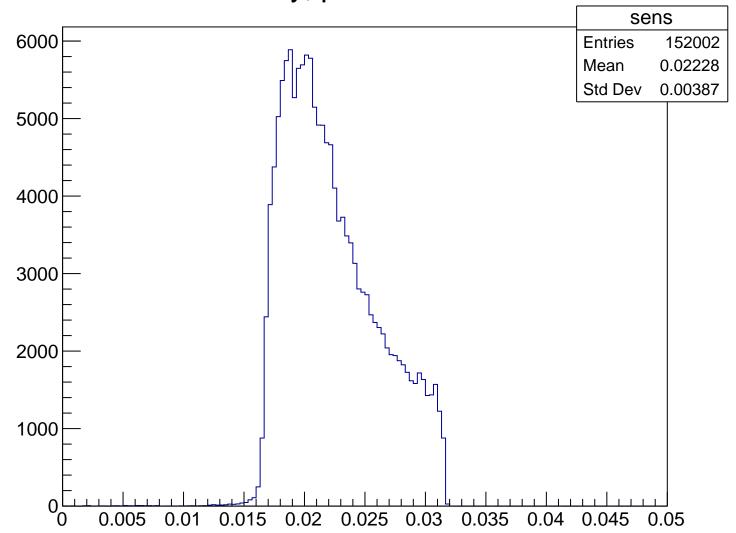


### Stretched Asym. (ppm), pCut = 0.946 GeV





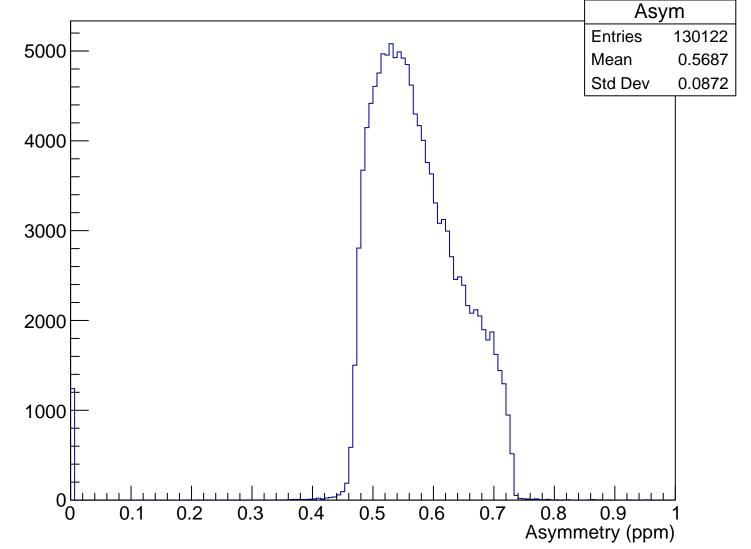
Sensitivity, pCut = 0.946 GeV



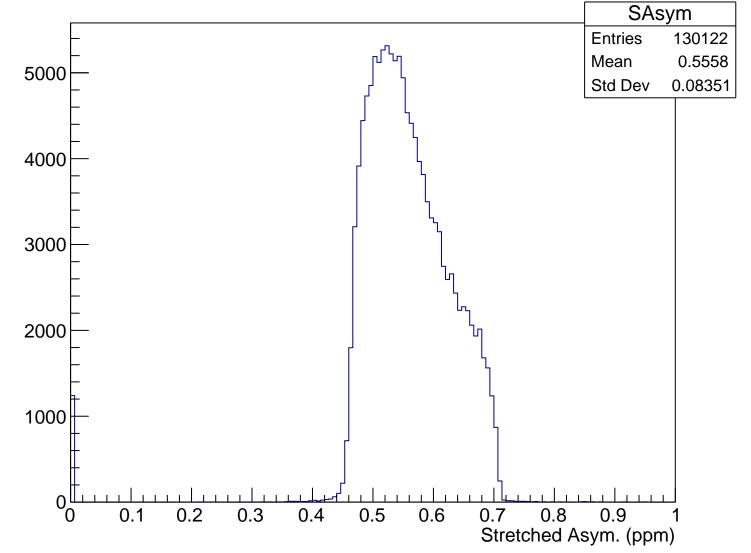
RHRS momentum (run21413) ADC raw (run21413, detZ = 1.3 m) huq All events 436431 Entries 16000 16000 499.3 Mean US accepted Std Dev 13.18 **US** missed 14000 14000 p@edge = 0.9454 GeVP.upQadcR Ped: cut = 501.512000 12000 hp1 hpup2 hpup3 164321 **Entries** 285500 **Entries** 121179 Entries Mean 0.9421 0.9473 0.9382 Mean Mean 10000 10000 Std Dev 0.007671 Std Dev 0.001539 Std Dev 0.00811 pCut = 0.9465 GeV8000 8000 6000 6000 4000 4000 2000 2000 0.915 0.92 0.925 0.93 0.935 0.94 0.945 0.95 0.955 520 540 560 580 600 R.gold.p (GeV) ADC raw

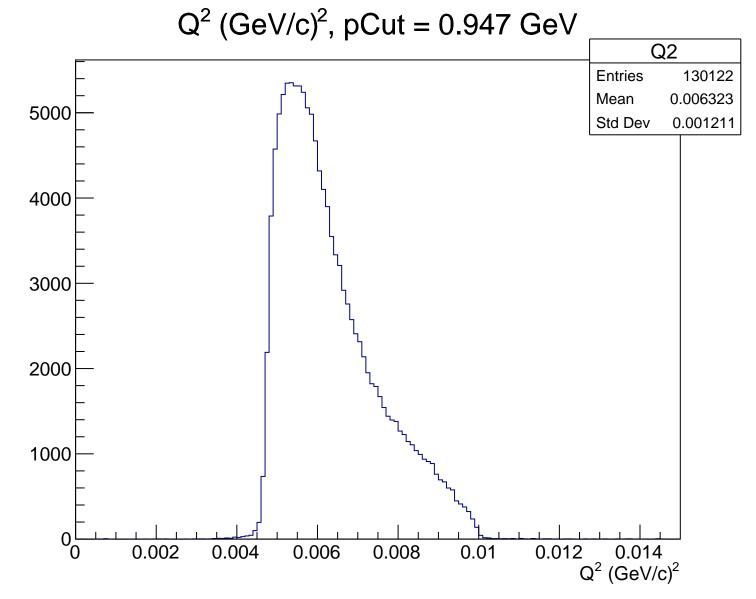
 $\theta_{lab}$  (deg), pCut = 0.947 GeV Theta **Entries** 130122 Mean 4.783 5000 Std Dev 0.4479 4000 3000 2000 1000 5  $\theta_{lab}$  (deg)

# Asymmetry (ppm), pCut = 0.947 GeV



#### Stretched Asym. (ppm), pCut = 0.947 GeV





Sensitivity, pCut = 0.947 GeV

