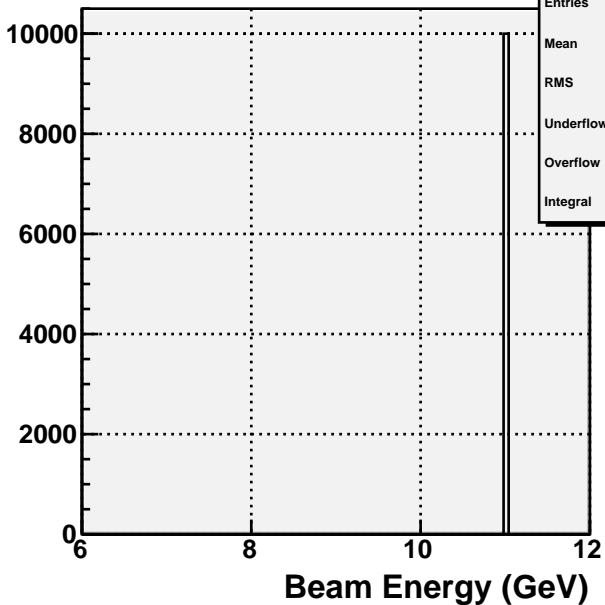
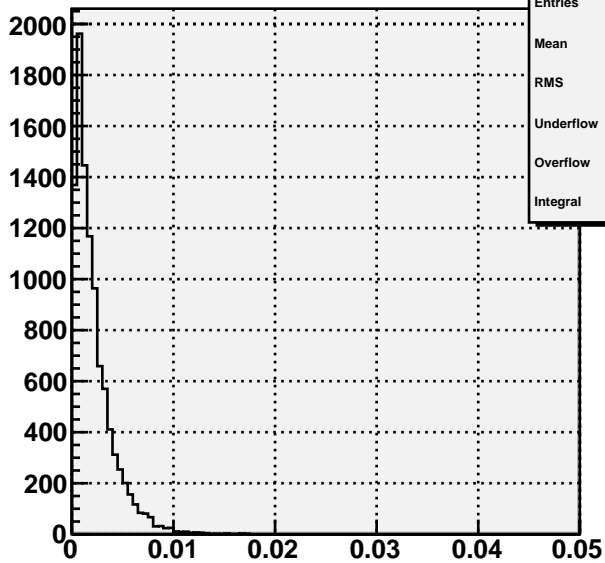
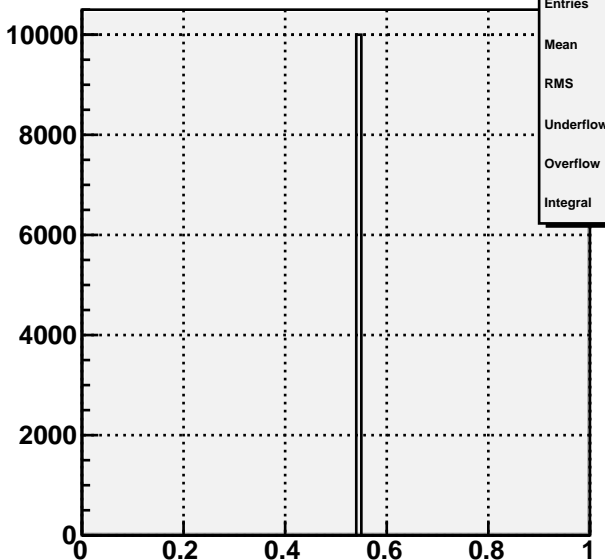


**Eb=11.00 GeV****H1Eb**

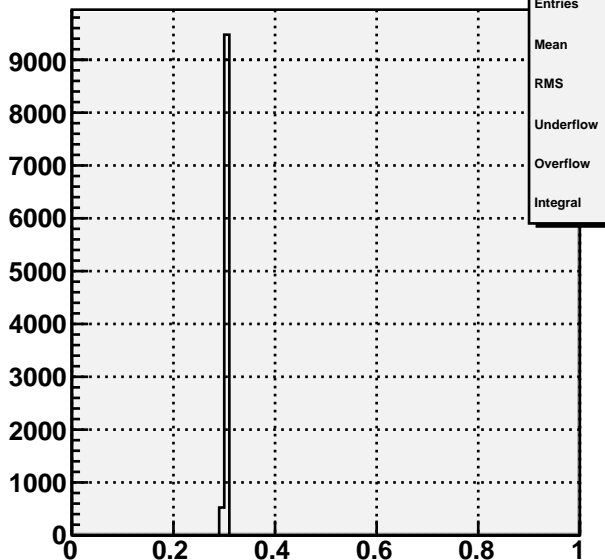
Entries	10000
Mean	11
RMS	8.849e-06
Underflow	0
Overflow	0
Integral	1e+04

**-t (GeV<sup>2</sup>)****H1t**

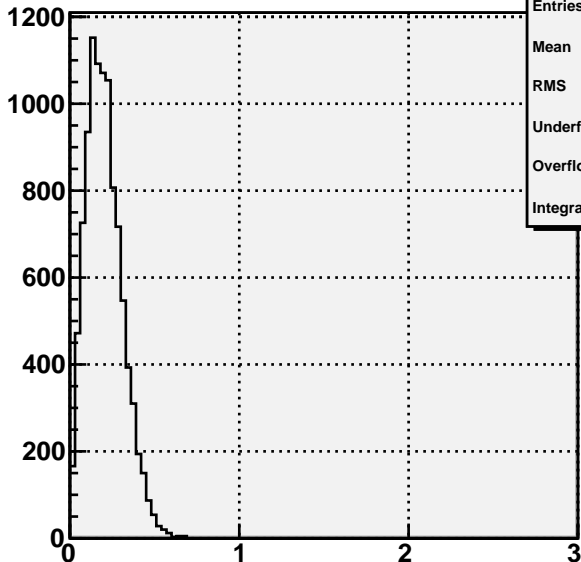
Entries	10000
Mean	0.00218
RMS	0.001977
Underflow	0
Overflow	0
Integral	1e+04

**mg1g2 (GeV)****H1mg1g2**

Entries	10000
Mean	0.5479
RMS	0.0001069
Underflow	0
Overflow	0
Integral	1e+04

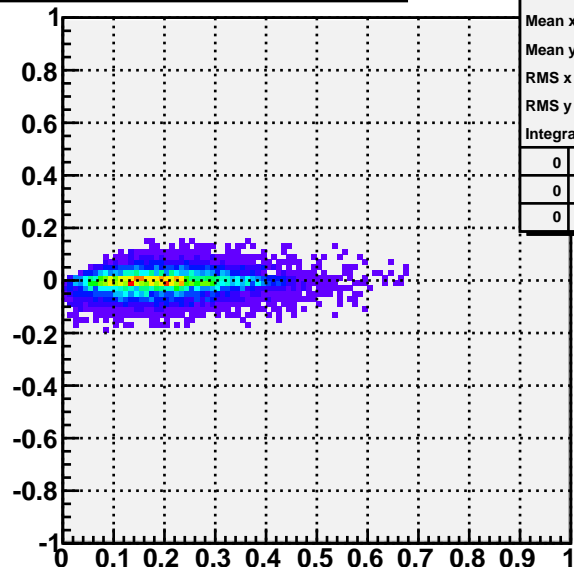
**mg1g2<sup>2</sup> (GeV<sup>2</sup>)****H1mg1g22**

Entries	10000
Mean	0.3002
RMS	0.0001172
Underflow	0
Overflow	0
Integral	1e+04

$\theta_\eta$  (degrees)

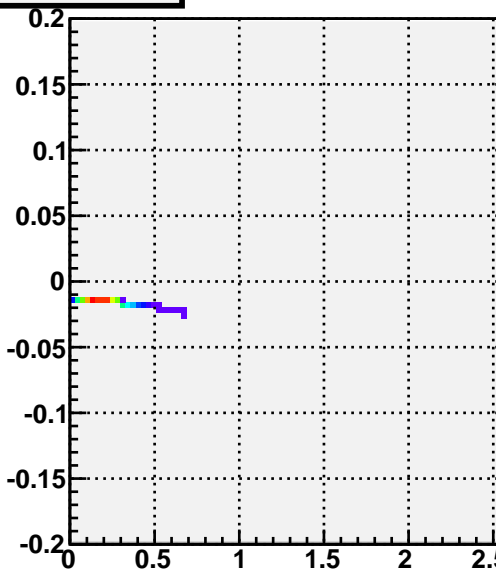
H1eta\_the

Entries	10000
Mean	0.2046
RMS	0.106
Underflow	0
Overflow	0
Integral	1e+04

GEN-REC  $\theta_\eta$  vs  $\theta_\eta$  (degrees)

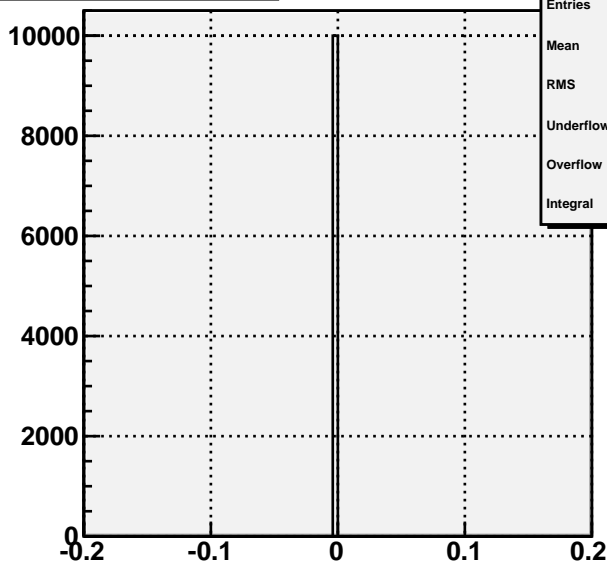
H2Data\_thevsthe

Entries	10000	
Mean x	0.205	
Mean y	-0.007397	
RMS x	0.1057	
RMS y	0.04087	
Integral	8712	
0	1288	0
0	8712	0
0	0	0

 $p_{z_\eta} - E_b$  vs  $\theta_\eta$ 

H1eta\_inelast\_the

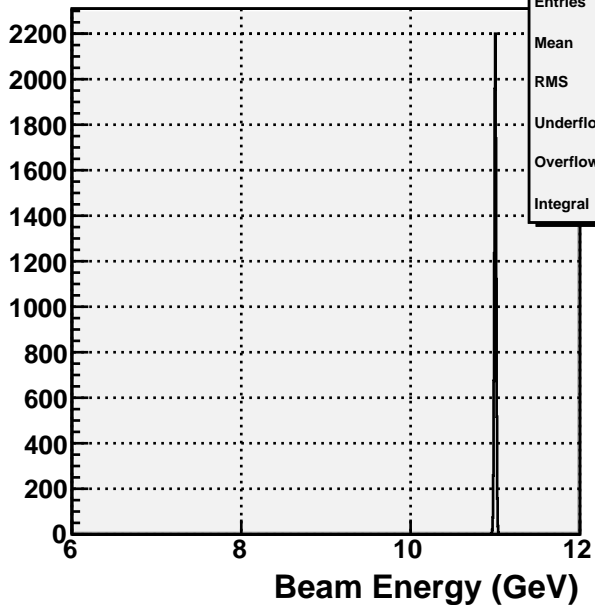
Entries	10000	
Mean x	0.2046	
Mean y	-0.01518	
RMS x	0.106	
RMS y	0.001144	
Integral	1e+04	
0	0	0
0	10000	0
0	0	0

Ratio( $p_1/\eta_1$ ) -  $E_b$ 

H1eta\_inelast1

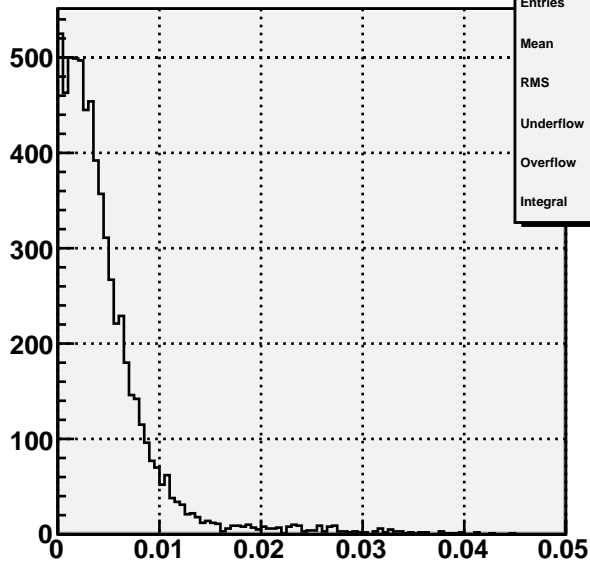
Entries	10000
Mean	-0.0002763
RMS	6.347e-05
Underflow	0
Overflow	0
Integral	1e+04

REC Eb=11.00 GeV



H1REb

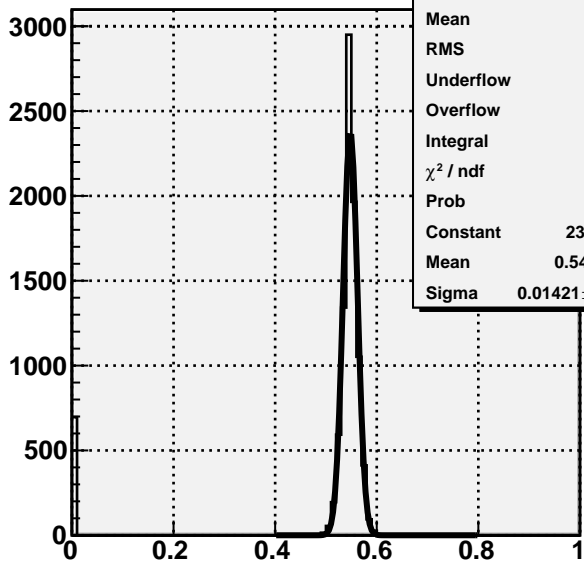
Entries	10000
Mean	11
RMS	0.01094
Underflow	0
Overflow	0
Integral	1e+04

REC -t (GeV<sup>2</sup>)

H1Rt

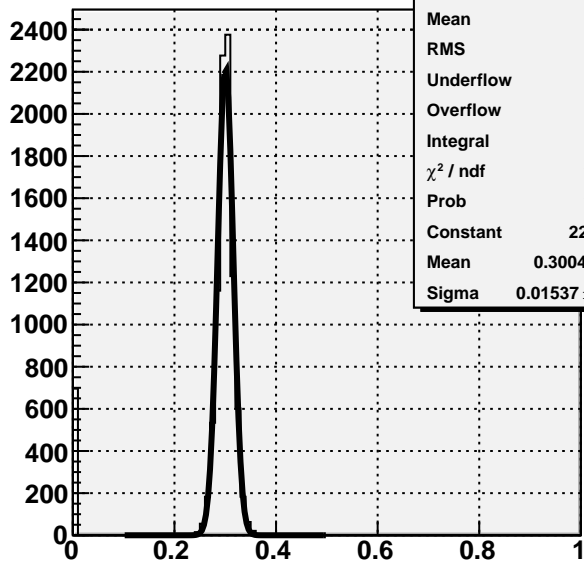
Entries	10000
Mean	0.004603
RMS	0.004901
Underflow	2450
Overflow	1028
Integral	6522

REC mg1g2 (GeV)



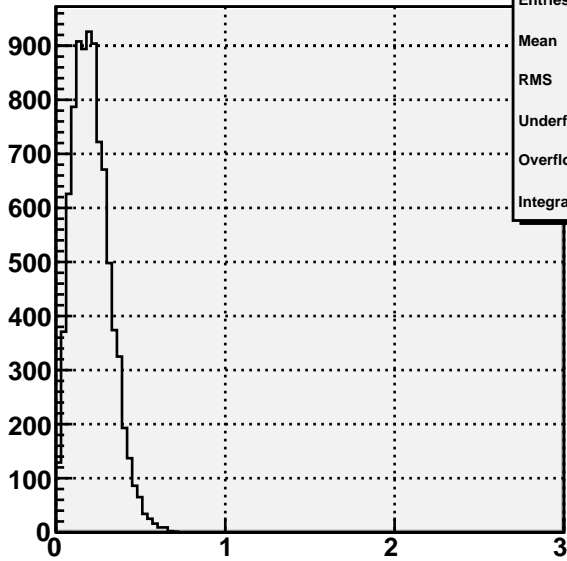
H1Rmg1g2

Entries	10000
Mean	0.5074
RMS	0.144
Underflow	0
Overflow	592
Integral	9408
$\chi^2 / \text{ndf}$	253 / 14
Prob	0
Constant	$2374 \pm 34.9$
Mean	$0.548 \pm 0.000$
Sigma	$0.01421 \pm 0.00014$

REC mg1g2<sup>2</sup> (GeV<sup>2</sup>)

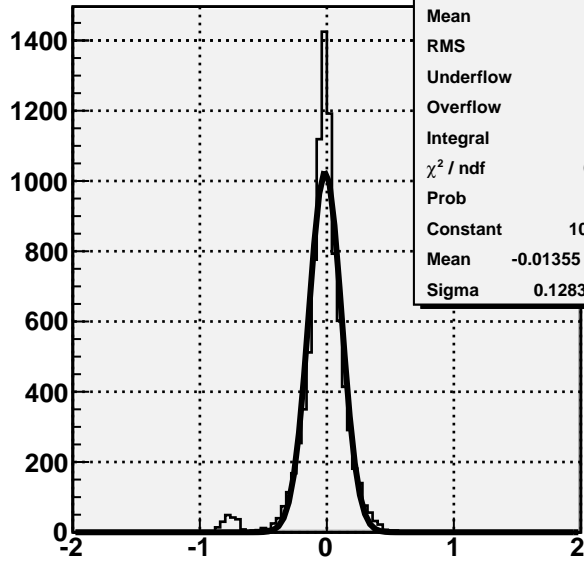
H1Rmg1g22

Entries	10000
Mean	0.2782
RMS	0.08006
Underflow	591
Overflow	1
Integral	9408
$\chi^2 / \text{ndf}$	166.4 / 15
Prob	$1.282\text{e-}27$
Constant	$2217 \pm 32.4$
Mean	$0.3004 \pm 0.0002$
Sigma	$0.01537 \pm 0.00015$

**REC  $\theta_\eta$  (degrees)**


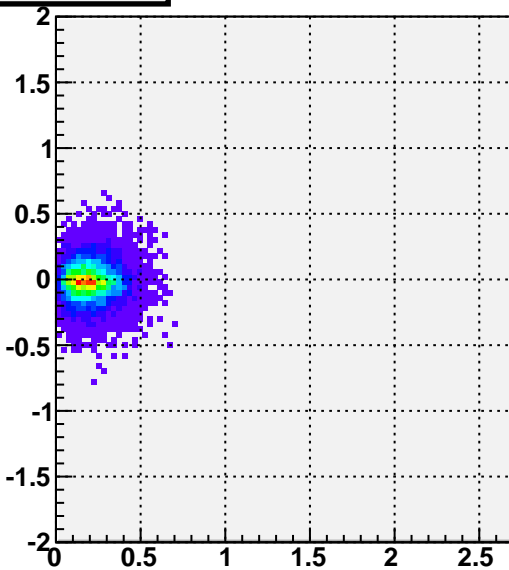
H1Reta_the	
Entries	10000
Mean	0.2124
RMS	0.1102
Underflow	1288
Overflow	0
Integral	8712

k1=0.005 k2=0.000 k3=0.002

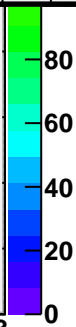
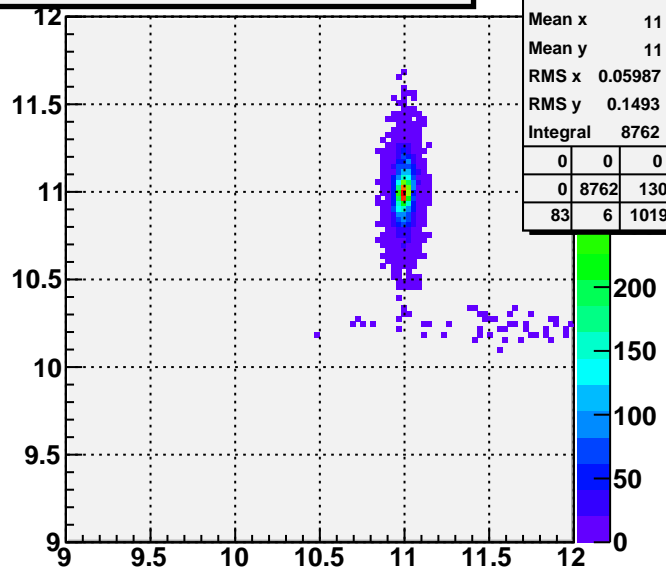
**REC  $p_z_\eta - E_b$** 


H1Reta_pinelist	
Entries	10000
Mean	-0.02842
RMS	0.1728
Underflow	1107
Overflow	1
Integral	8892
$\chi^2 / \text{ndf}$	614.9 / 37
Prob	0
Constant	$1029 \pm 16.7$
Mean	$-0.01355 \pm 0.00141$
Sigma	$0.1283 \pm 0.0015$

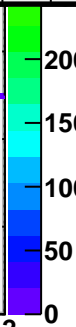
q1=0.064 q2=0.000 q3=0.000

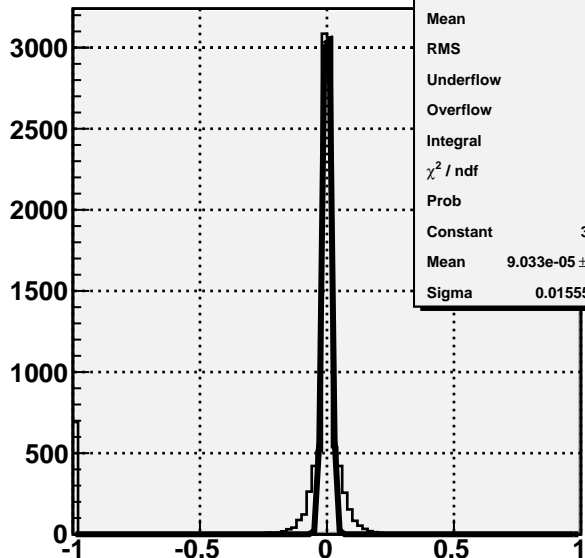
 **$p_z_\eta - E_b$  vs  $\theta_\eta$** 


H1Reta_inelist_the		
Entries	10000	
Mean x	0.2124	
Mean y	-0.01326	
RMS x	0.1102	
RMS y	0.1381	
Integral	8712	
	1	0
	180	8712
	1107	0


**REC  $E_\eta$  ( $E_1, E_2$ ) vs  $E_\eta$  ( $E_1, \theta$ ) GeV**


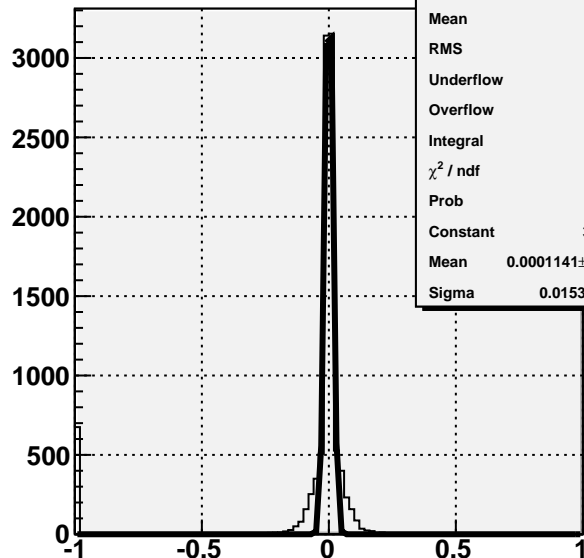
H2RetaEvsetaE2		
Entries	10000	
Mean x	11	
Mean y	11	
RMS x	0.05987	
RMS y	0.1493	
Integral	8762	
	0	0
	0	8762
	83	6



**GEN-REC  $\Delta E_{\gamma 1}/E$** **H1Dg1\_the**

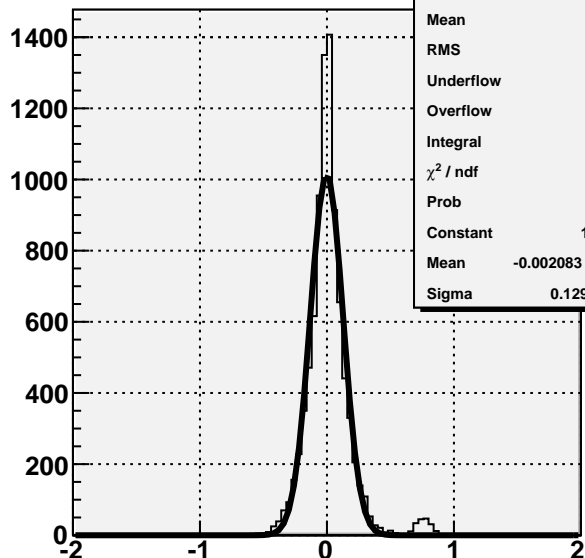
Entries	10000
Mean	-0.06889
RMS	0.2585
Underflow	0
Overflow	0
Integral	1e+04
$\chi^2 / \text{ndf}$	2731 / 45
Prob	0
Constant	3729 ± 58.9
Mean	9.033e-05 ± 1.825e-04
Sigma	0.01555 ± 0.00016

k1=0.005 k2=0.000 k3=0.002

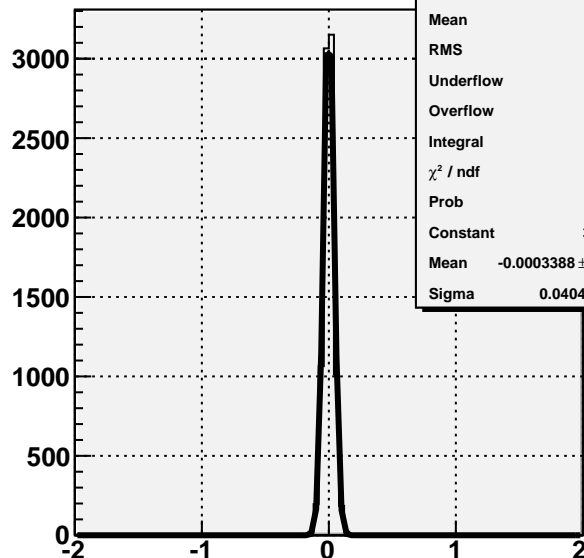
**GEN-REC  $\Delta E_{\gamma 2}/E$** **H1Dg2\_the**

Entries	10000
Mean	-0.06742
RMS	0.2553
Underflow	0
Overflow	0
Integral	1e+04
$\chi^2 / \text{ndf}$	2609 / 45
Prob	0
Constant	3848 ± 59.9
Mean	0.0001141 ± 0.0001787
Sigma	0.01533 ± 0.00016

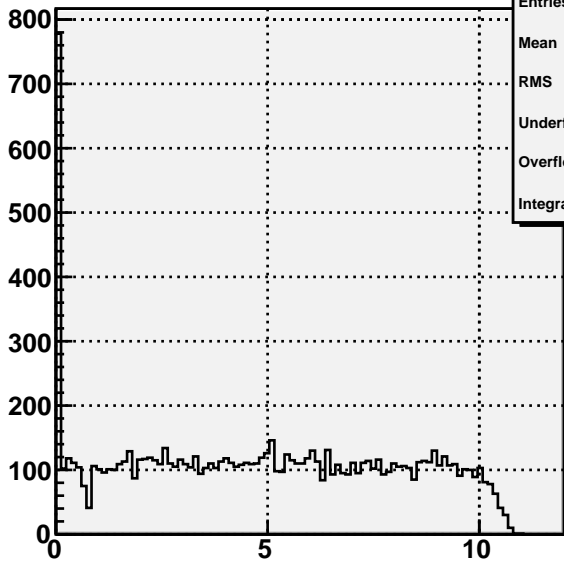
q1=0.064 q2=0.000 q3=0.000

**GEN-REC  $\Delta E_{\eta} (E1,E2)$** **H1Deta\_E**

Entries	10000
Mean	0.01347
RMS	0.1737
Underflow	0
Overflow	1108
Integral	8892
$\chi^2 / \text{ndf}$	653.7 / 37
Prob	0
Constant	1016 ± 16.5
Mean	-0.002083 ± 0.001426
Sigma	0.1294 ± 0.0015

**GEN-REC  $\Delta E_{\eta} (E,\theta)$** **H1Deta\_E2**

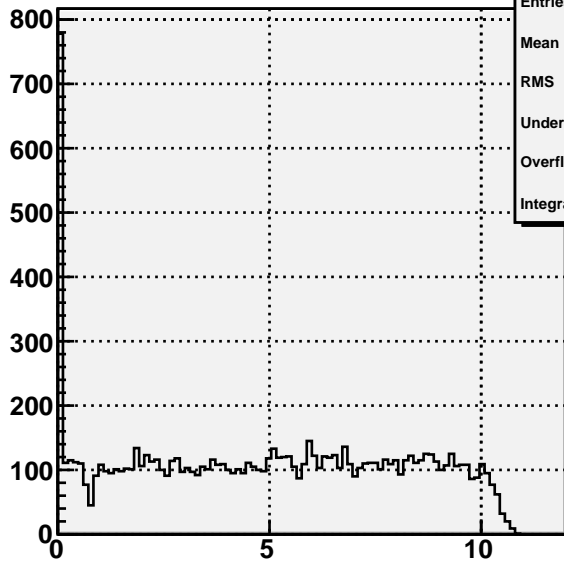
Entries	10000
Mean	-0.01627
RMS	0.1603
Underflow	1070
Overflow	83
Integral	8847
$\chi^2 / \text{ndf}$	180 / 55
Prob	3.364e-15
Constant	3422 ± 47.9
Mean	-0.0003388 ± 0.0004344
Sigma	0.04042 ± 0.00036

**REC  $E_{\gamma 1}$  (GeV)**

$k1=0.005$   $k2=0.000$   $k3=0.002$

**H1REg1**

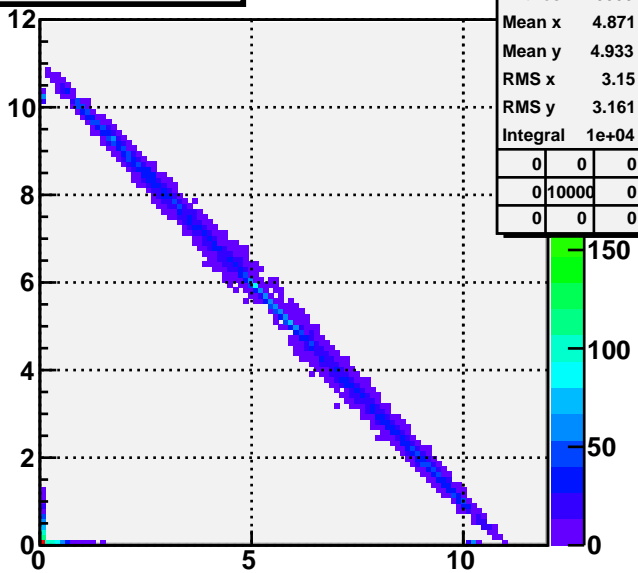
Entries	10000
Mean	4.871
RMS	3.15
Underflow	0
Overflow	0
Integral	1e+04

**REC  $E_{\gamma 2}$  (GeV)**

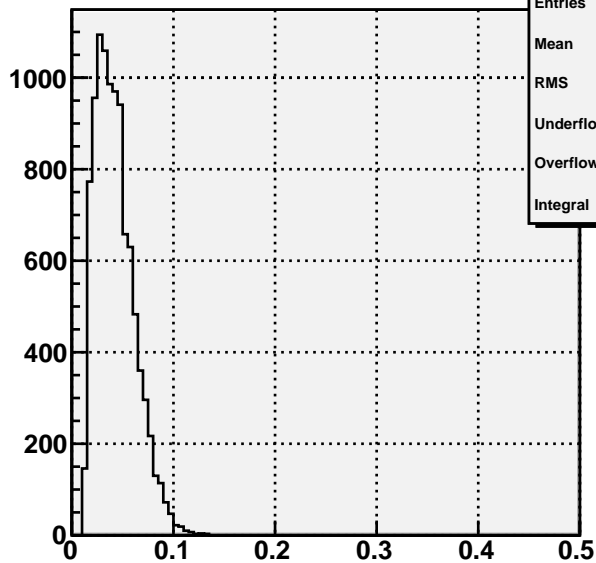
$q1=0.064$   $q2=0.000$   $q3=0.000$

**H1REg2**

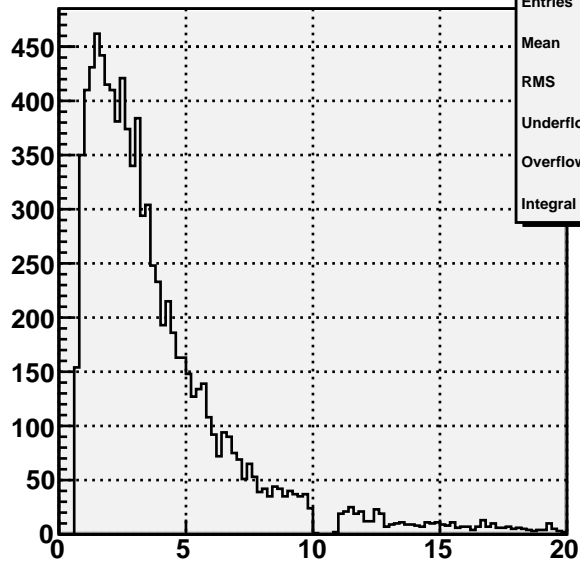
Entries	10000
Mean	4.933
RMS	3.161
Underflow	0
Overflow	0
Integral	1e+04

**REC  $E_{\gamma 2}$  vs  $E_{\gamma 1}$  GeV****H2REg1vsEg2**

Entries	10000	
Mean x	4.871	
Mean y	4.933	
RMS x	3.15	
RMS y	3.161	
Integral	1e+04	
0	0	0
0	10000	0
0	0	0

**REC  $P_p$  (GeV)****H1RPp**

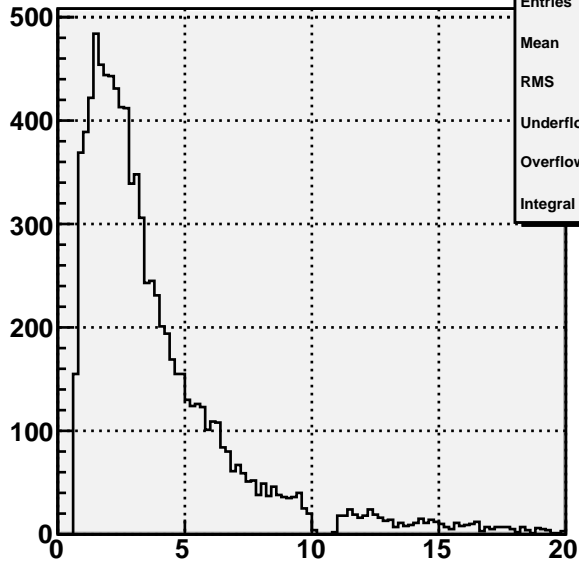
Entries	10000
Mean	0.04271
RMS	0.019
Underflow	0
Overflow	0
Integral	1e+04

**REC  $\theta_{\gamma 1}$  (deg)**

$k1=0.005$   $k2=0.000$   $k3=0.002$

**H1Rtheg1**

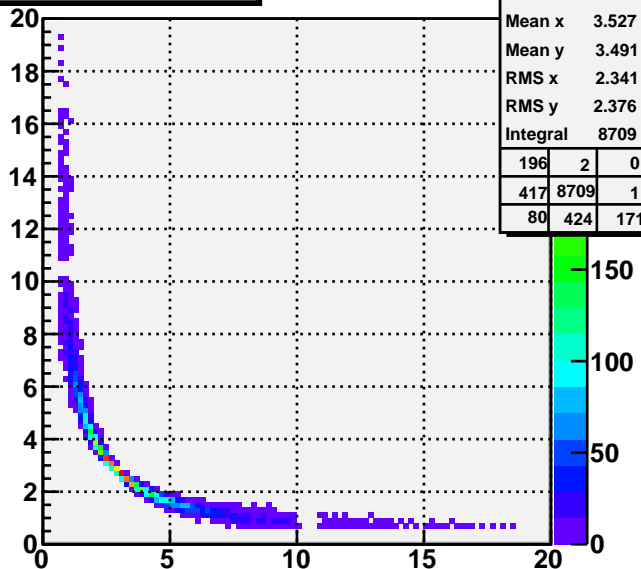
Entries	10000
Mean	3.893
RMS	3.128
Underflow	693
Overflow	172
Integral	9135

**REC  $\theta_{\gamma 2}$  (deg)**

$q1=0.064$   $q2=0.000$   $q3=0.000$

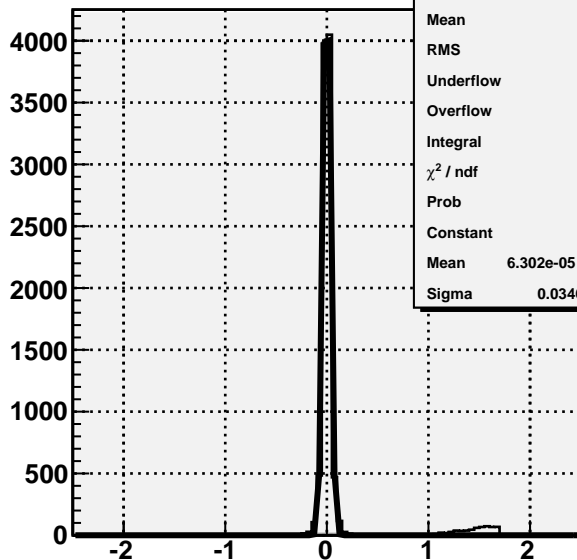
**H1Rtheg2**

Entries	10000
Mean	3.854
RMS	3.119
Underflow	675
Overflow	198
Integral	9127

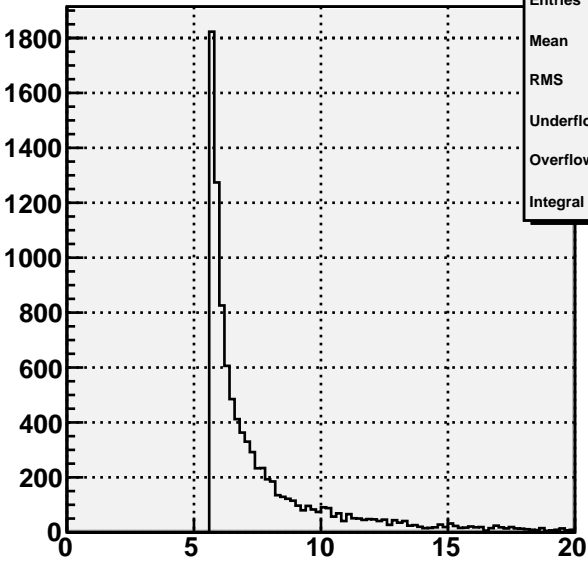
**REC  $\theta_{\gamma 2}$  vs  $\theta_{\gamma 2}$  (deg)**

<b>H2Rtheg1vstheg2</b>		
Entries	10000	
Mean x	3.527	
Mean y	3.491	
RMS x	2.341	
RMS y	2.376	
Integral	8709	

196	2	0
417	8709	1
80	424	171

**GEN-REC  $\theta_{\gamma 1}$  (deg)****H1Dtheg1**

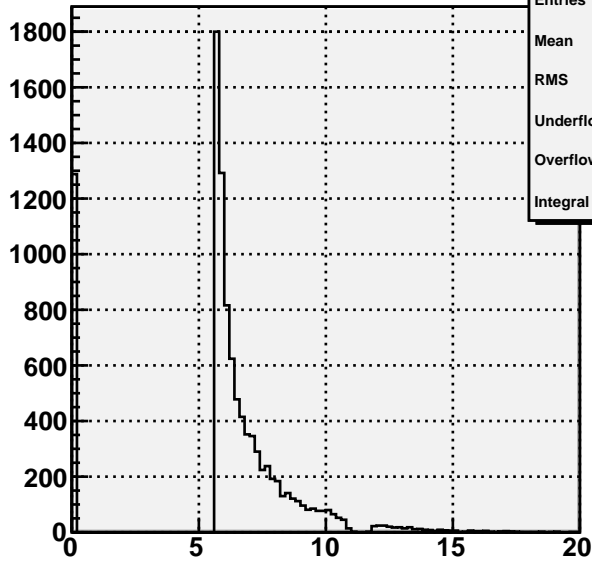
Entries	10000
Mean	0.08446
RMS	0.3445
Underflow	0
Overflow	125
Integral	9875
$\chi^2 / \text{ndf}$	869 / 30
Prob	0
Constant	$5189 \pm 69.7$
Mean	$6.302e-05 \pm 3.655e-04$
Sigma	$0.03463 \pm 0.00029$

**$\theta_{\gamma\gamma_2}$  (deg)**

$k_1=0.005$   $k_2=0.000$   $k_3=0.002$

**H1theg2g1**

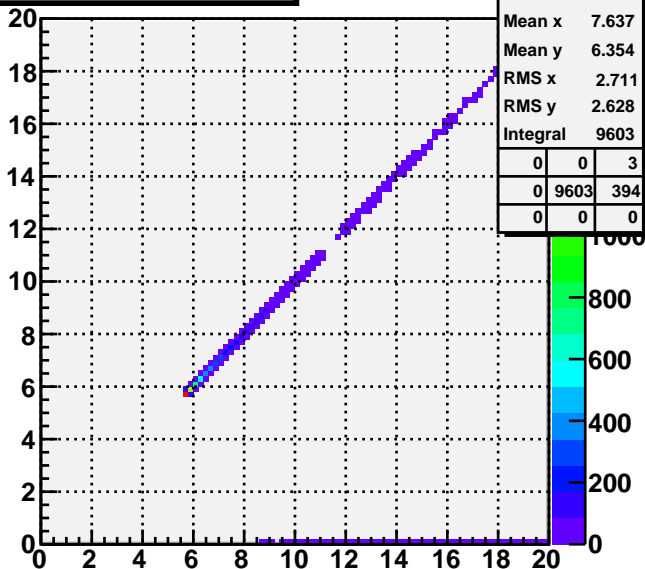
Entries	10000
Mean	7.637
RMS	2.711
Underflow	0
Overflow	397
Integral	9603

**REC  $\theta_{\gamma\gamma_2}$  (deg)**

$q_1=0.064$   $q_2=0.000$   $q_3=0.000$

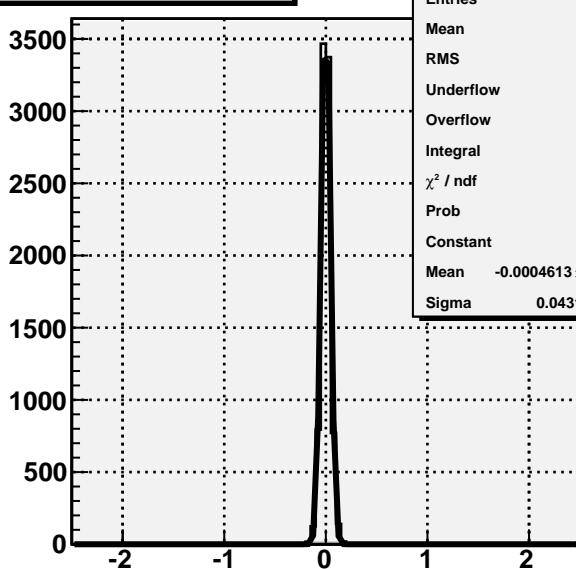
**H1Rtheg2g1**

Entries	10000
Mean	6.104
RMS	2.857
Underflow	0
Overflow	3
Integral	9997

**REC  $\theta_{\gamma\gamma_2}$  vs  $\theta_{\gamma\gamma_2}$  (deg)****H2Rtheg1g2\_theg1g2**

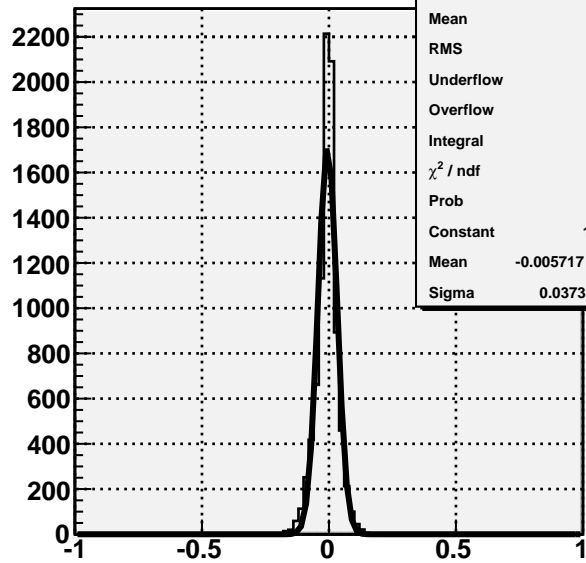
Entries	10000
Mean x	7.637
Mean y	6.354
RMS x	2.711
RMS y	2.628
Integral	9603

0	0	3
0	9603	394
0	0	0

**GEN-REC  $\theta_{\gamma\gamma_2}$  (deg)****H1Dtheg2g1**

Entries	10000
Mean	0.000114
RMS	0.04346
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	142.5 / 8
Prob	7.131e-27
Constant	3960 ± 57.5
Mean	-0.0004613 ± 0.0004664
Sigma	0.04316 ± 0.00042

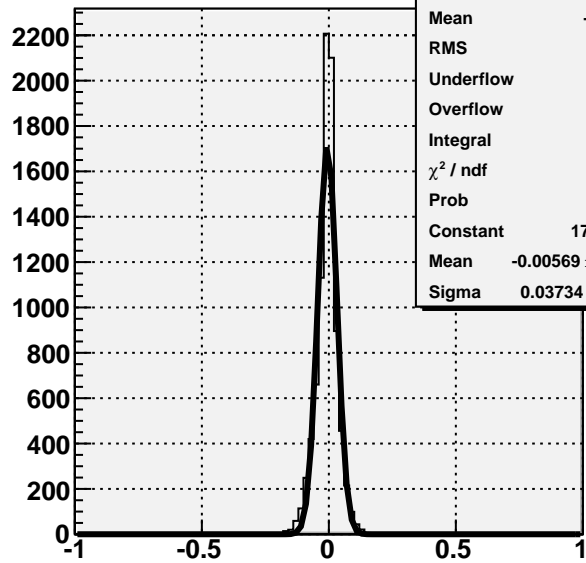


**GEN-REC  $\theta_\eta$  (degrees)**

$k1=0.005$   $k2=0.000$   $k3=0.002$

**H1Data\_the**

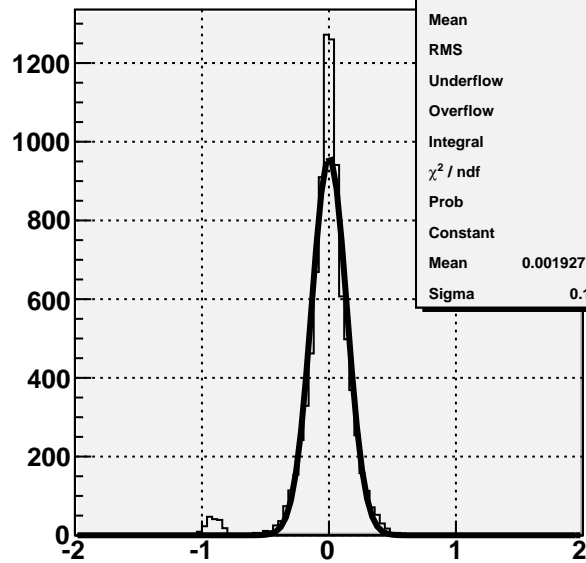
Entries	10000
Mean	-0.007397
RMS	0.04087
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	670.2 / 15
Prob	0
Constant	1717 $\pm$ 30.4
Mean	-0.005717 $\pm$ 0.000438
Sigma	0.03736 $\pm$ 0.00051

**GEN-REC  $\theta_\eta$  EQ11 (degrees)**

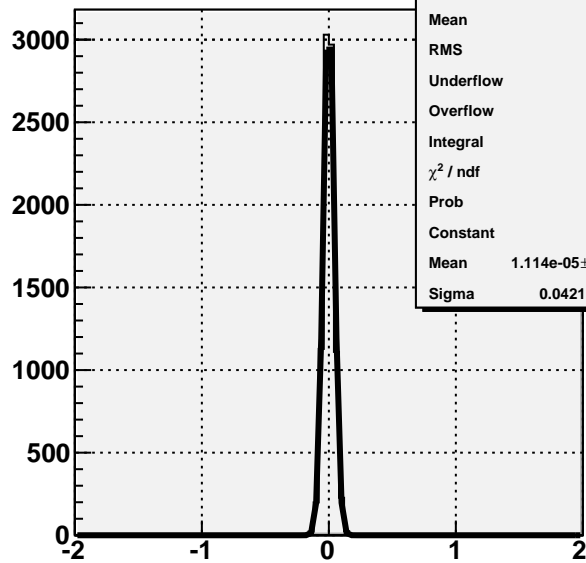
$q1=0.064$   $q2=0.000$   $q3=0.000$

**H1Data\_the2**

Entries	10000
Mean	-0.007395
RMS	0.04087
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	670 / 15
Prob	0
Constant	1718 $\pm$ 30.5
Mean	-0.00569 $\pm$ 0.00044
Sigma	0.03734 $\pm$ 0.00051

**REC Ratio(p1/eta1) -  $E_b$  (E1,E2)****H1Reta\_inelast1**

Entries	9921
Mean	-0.01659
RMS	0.1931
Underflow	1028
Overflow	1
Integral	8892
$\chi^2 / \text{ndf}$	574 / 39
Prob	0
Constant	962 $\pm$ 15.2
Mean	0.001927 $\pm$ 0.001514
Sigma	0.138 $\pm$ 0.002

**REC Ratio(p2/eta2) -  $E_b$  (E1, $\theta$ )****H1Reta\_inelast2**

Entries	9921
Mean	7.586e-05
RMS	0.04077
Underflow	1209
Overflow	0
Integral	8712
$\chi^2 / \text{ndf}$	26.96 / 5
Prob	5.82e-05
Constant	3291 $\pm$ 45.1
Mean	1.114e-05 $\pm$ 4.528e-04
Sigma	0.04212 $\pm$ 0.00036