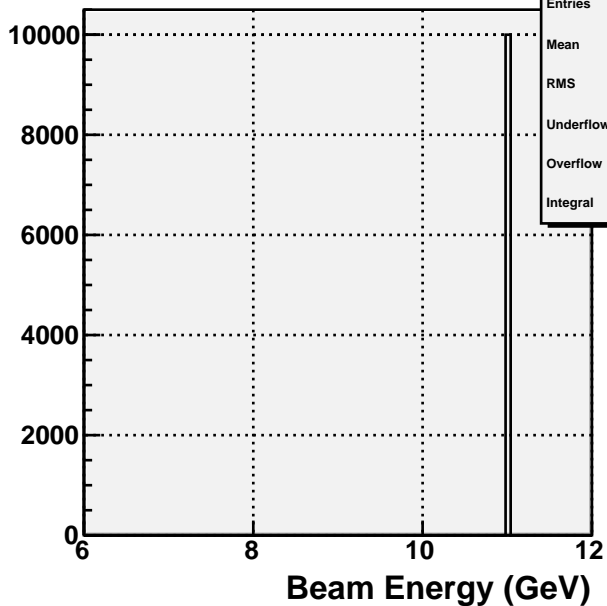
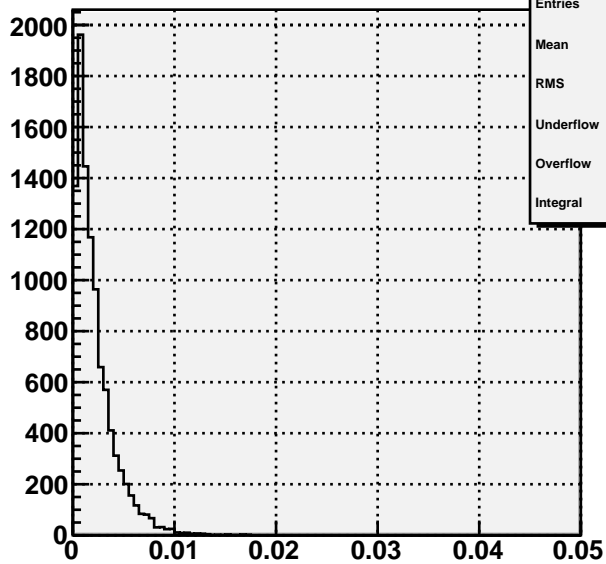
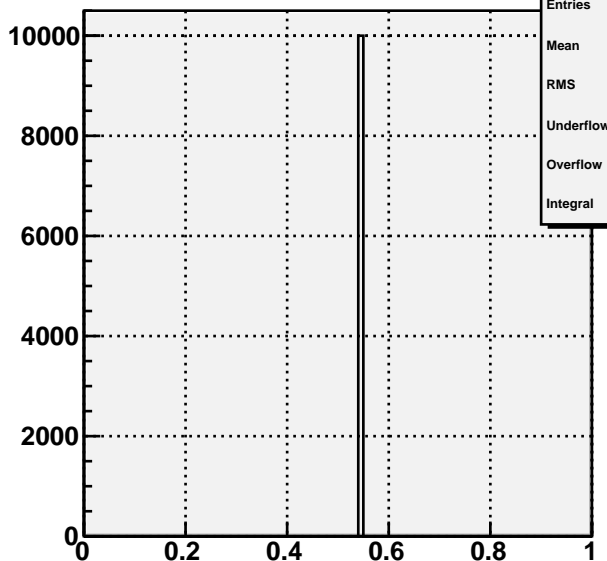


**Eb=11.00 GeV****H1Eb**

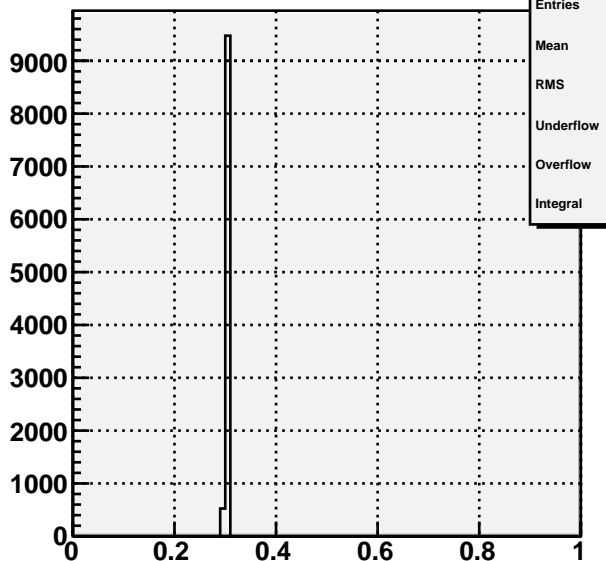
Entries	10000
Mean	11
RMS	8.849e-06
Underflow	0
Overflow	0
Integral	1e+04

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

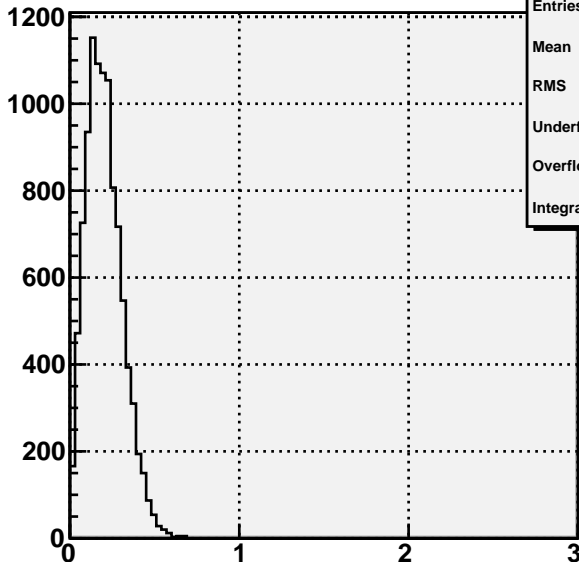
Entries	10000
Mean	0.00218
RMS	0.001977
Underflow	0
Overflow	0
Integral	1e+04

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

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

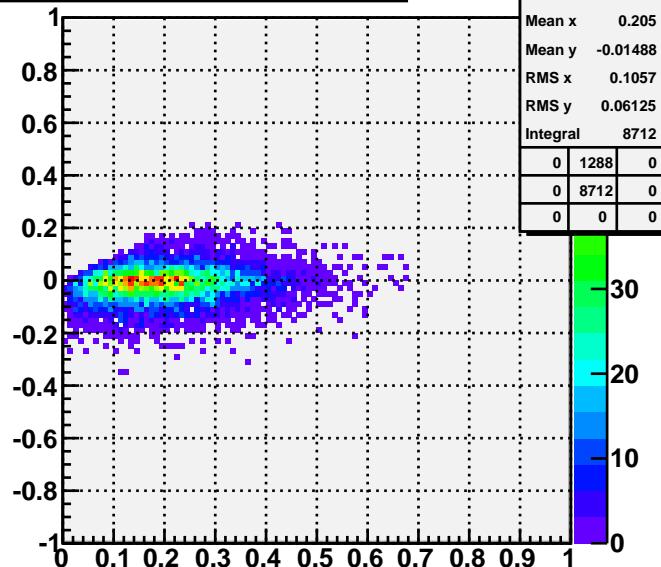
**mg1g2<sup>2</sup> (GeV<sup>2</sup>)****H1mg1g22**

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

$\theta_\eta$  (degrees)

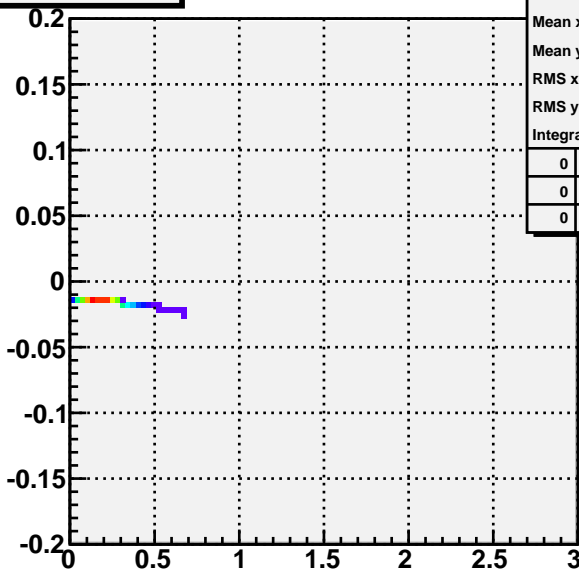
H1eta\_the

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

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

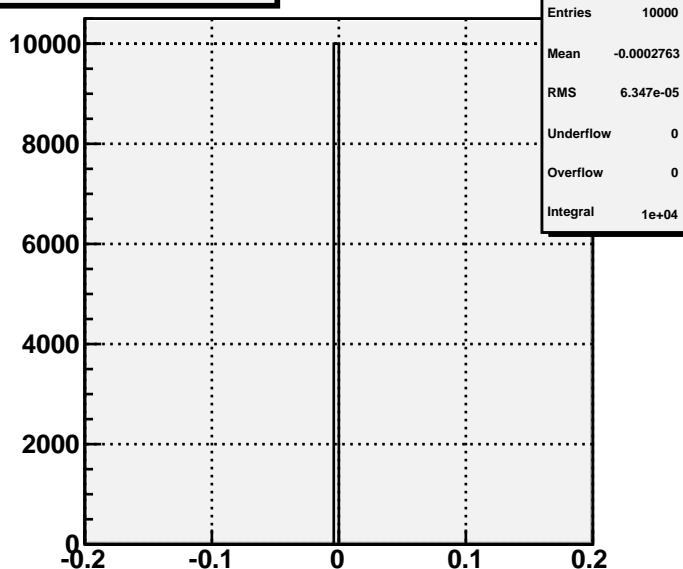
H2Deta\_thevsthe

Entries	10000	
Mean x	0.205	
Mean y	-0.01488	
RMS x	0.1057	
RMS y	0.06125	
Integral	8712	
0	1288	0
0	8712	0
0	0	0

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

H1eta\_inelast\_the

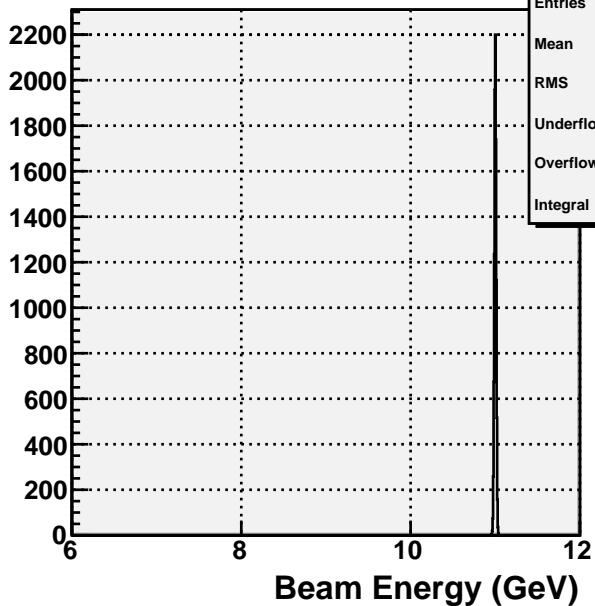
Entries	10000	
Mean x	0.2046	
Mean y	-0.01518	
RMS x	0.106	
RMS y	0.001144	
Integral	1e+04	
0	0	0
0	10000	0
0	0	0

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

H1eta\_inelast1

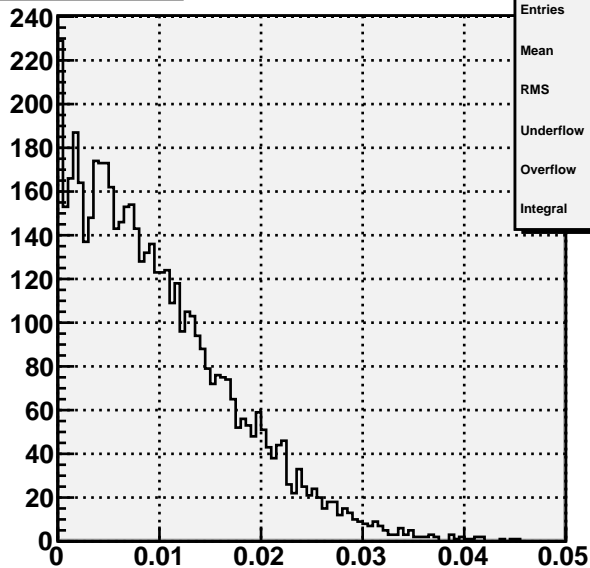
Entries	10000
Mean	-0.0002763
RMS	6.347e-05
Underflow	0
Overflow	0
Integral	1e+04

REC Eb=11.00 GeV



H1REb

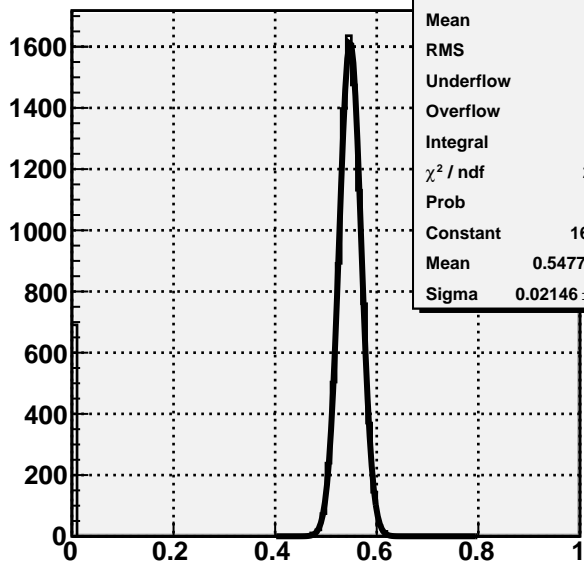
Entries	10000
Mean	11
RMS	0.01094
Underflow	0
Overflow	0
Integral	1e+04

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

H1Rt

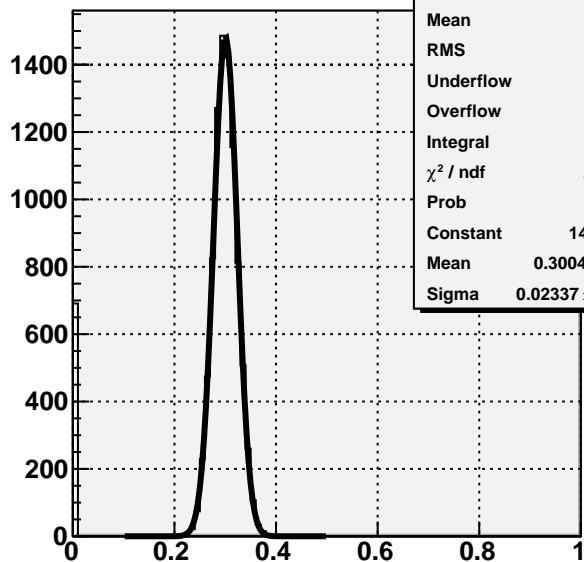
Entries	10000
Mean	0.009862
RMS	0.007517
Underflow	3594
Overflow	1028
Integral	5378

REC mg1g2 (GeV)



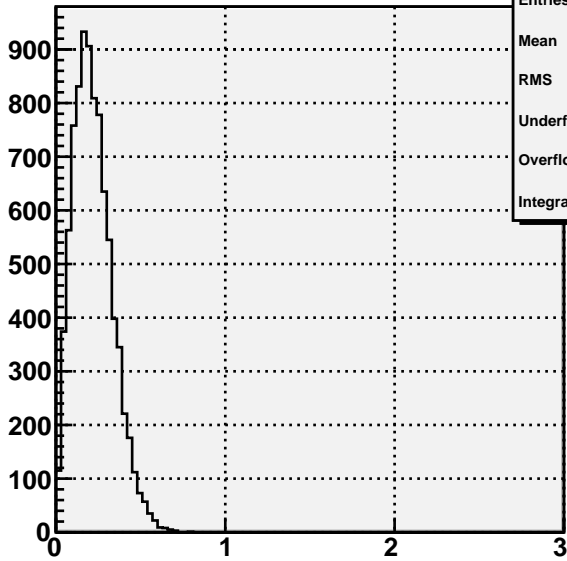
H1Rmg1g2

Entries	10000
Mean	0.5074
RMS	0.1443
Underflow	0
Overflow	597
Integral	9403
$\chi^2 / \text{ndf}$	21.05 / 17
Prob	0.2241
Constant	$1616 \pm 21.1$
Mean	$0.5477 \pm 0.0002$
Sigma	$0.02146 \pm 0.00016$

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

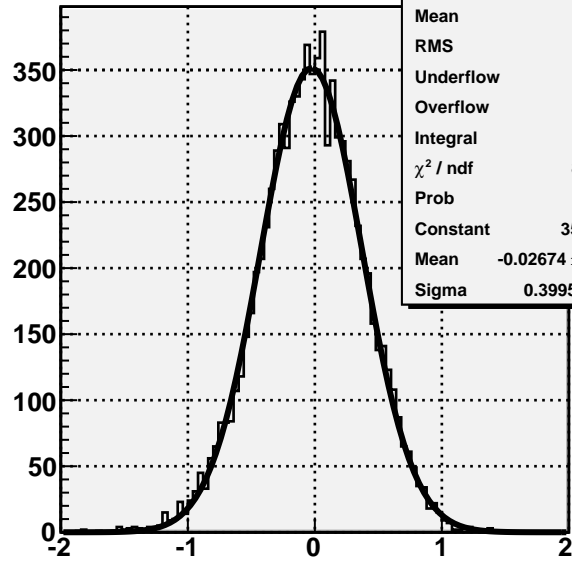
H1Rmg1g22

Entries	10000
Mean	0.2783
RMS	0.08156
Underflow	595
Overflow	2
Integral	9403
$\chi^2 / \text{ndf}$	28.83 / 19
Prob	0.06873
Constant	$1482 \pm 19.5$
Mean	$0.3004 \pm 0.0003$
Sigma	$0.02337 \pm 0.00018$

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


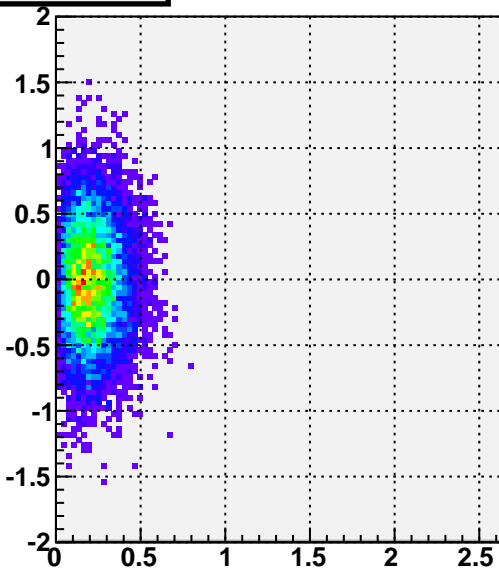
H1Reta_the	
Entries	10000
Mean	0.2199
RMS	0.1149
Underflow	1288
Overflow	0
Integral	8712

k1=0.060 k2=0.000 k3=0.024

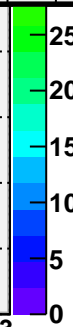
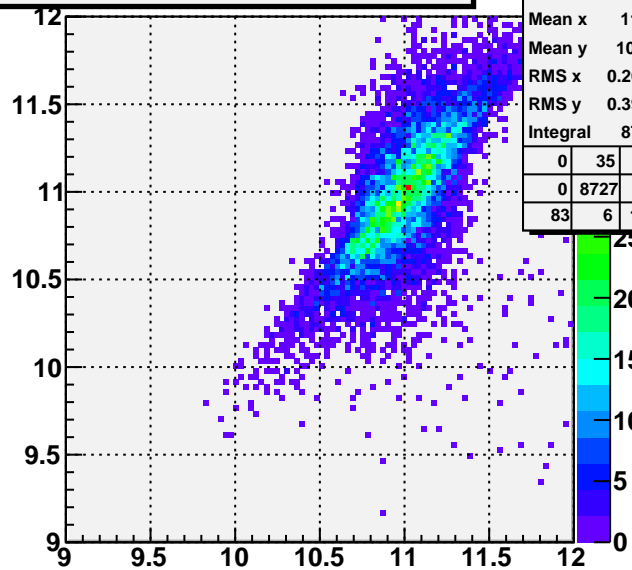
**REC  $p_z_\eta - E_b$** 


H1Reta_pinelast	
Entries	10000
Mean	-0.02919
RMS	0.4098
Underflow	1107
Overflow	2
Integral	8891
$\chi^2 / \text{ndf}$	89.49 / 76
Prob	0.1381
Constant	$351.6 \pm 4.6$
Mean	$-0.02674 \pm 0.00430$
Sigma	$0.3995 \pm 0.0031$

q1=0.640 q2=0.000 q3=0.000

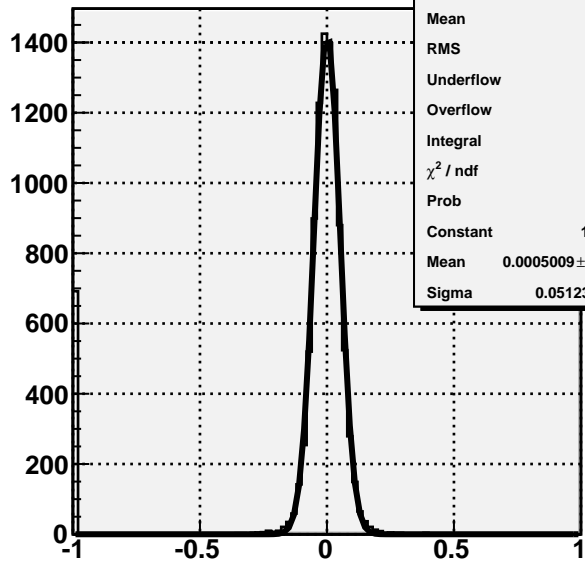
 **$p_z_\eta - E_b$  vs  $\theta_\eta$** 


H1Reta_inelast_the		
Entries	10000	
Mean x	0.2199	
Mean y	-0.01321	
RMS x	0.1149	
RMS y	0.3946	
Integral	8712	
	2	0
	179	8712
	1107	0


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


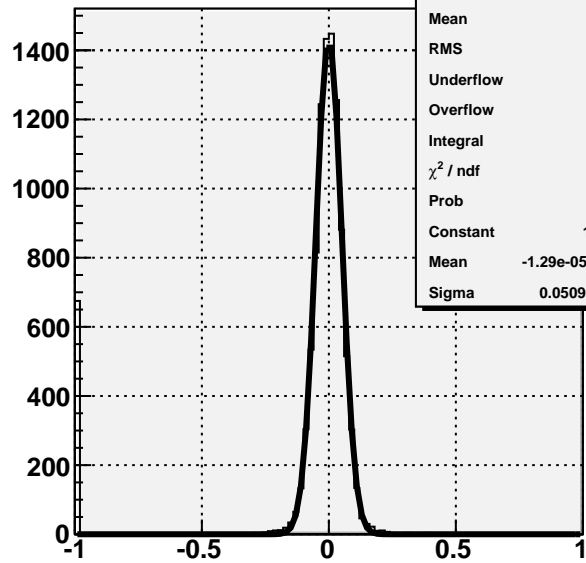
H2RetaEvsetaE2		
Entries	10000	
Mean x	11.01	
Mean y	10.99	
RMS x	0.2684	
RMS y	0.3945	
Integral	8727	
	0	35
	0	8727
	83	6



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

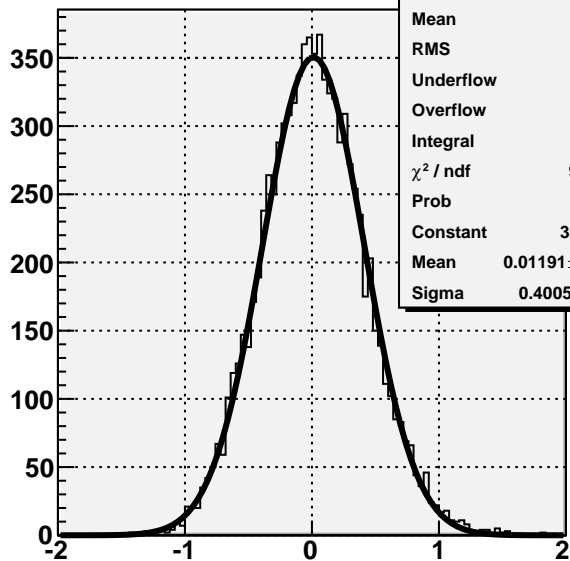
Entries	10000
Mean	-0.0689
RMS	0.2605
Underflow	0
Overflow	0
Integral	1e+04
$\chi^2 / \text{ndf}$	852.2 / 45
Prob	0
Constant	1425 ± 19.3
Mean	0.0005009 ± 0.0005358
Sigma	0.05123 ± 0.00044

k1=0.060 k2=0.000 k3=0.024

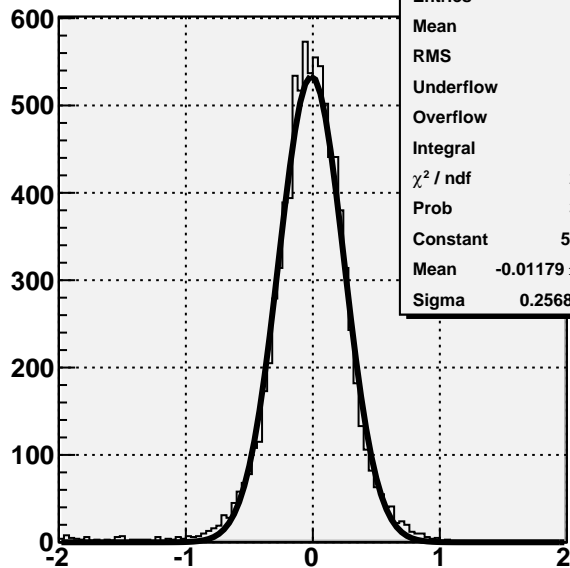
**GEN-REC  $\Delta E_{\gamma 2}/E$** **H1Dg2\_the**

Entries	10000
Mean	-0.06747
RMS	0.2574
Underflow	0
Overflow	0
Integral	1e+04
$\chi^2 / \text{ndf}$	830 / 45
Prob	0
Constant	1435 ± 19.3
Mean	-1.29e-05 ± 5.33e-04
Sigma	0.05099 ± 0.00043

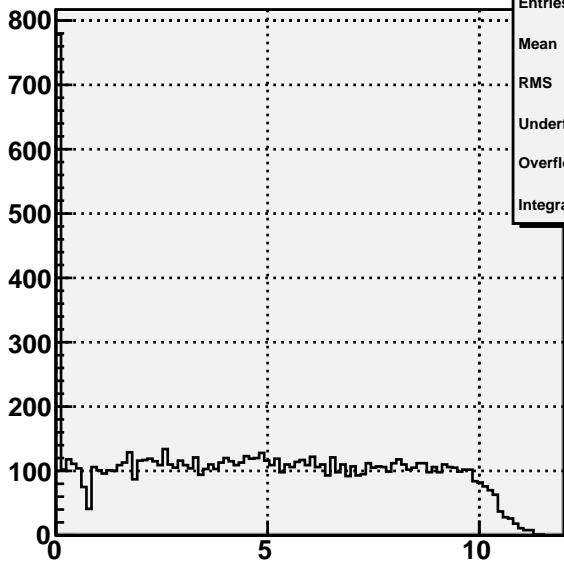
q1=0.640 q2=0.000 q3=0.000

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

Entries	10000
Mean	0.01424
RMS	0.4104
Underflow	0
Overflow	1109
Integral	8891
$\chi^2 / \text{ndf}$	92.46 / 75
Prob	0.08361
Constant	350.7 ± 4.7
Mean	0.01191 ± 0.00432
Sigma	0.4005 ± 0.0032

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

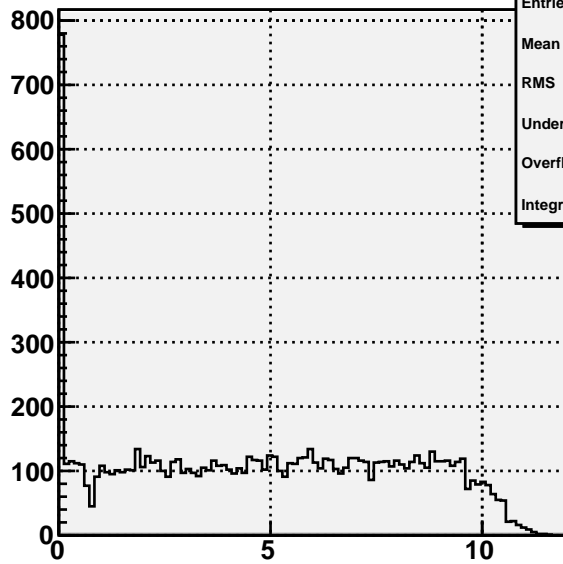
Entries	10000
Mean	-0.02655
RMS	0.3131
Underflow	1057
Overflow	83
Integral	8860
$\chi^2 / \text{ndf}$	271.2 / 78
Prob	3.681e-23
Constant	533.7 ± 7.8
Mean	-0.01179 ± 0.00278
Sigma	0.2568 ± 0.0025

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

$k1=0.060$   $k2=0.000$   $k3=0.024$

**H1REg1**

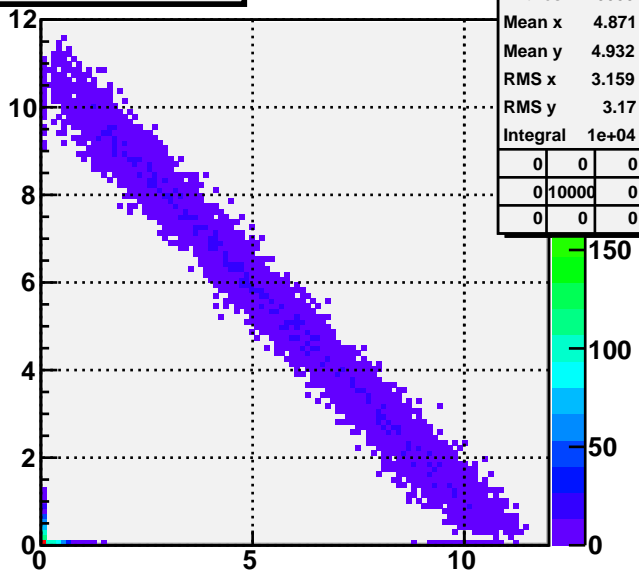
Entries	10000
Mean	4.871
RMS	3.159
Underflow	0
Overflow	0
Integral	1e+04

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

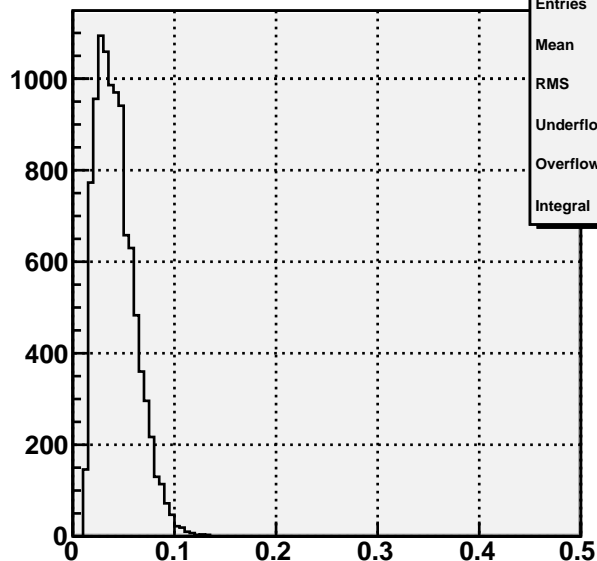
$q1=0.640$   $q2=0.000$   $q3=0.000$

**H1REg2**

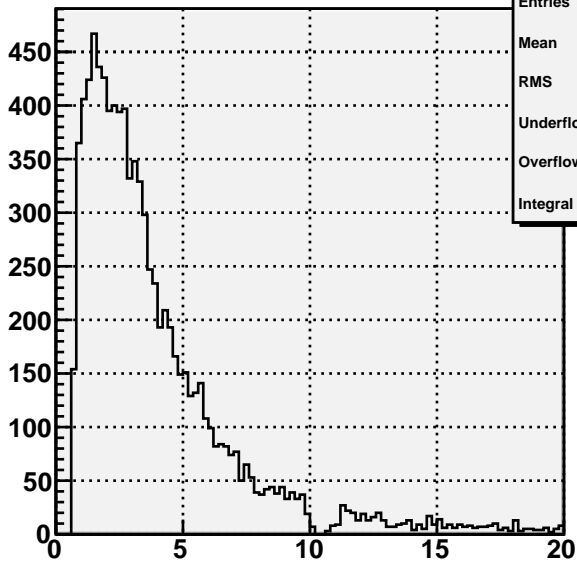
Entries	10000
Mean	4.932
RMS	3.17
Underflow	0
Overflow	0
Integral	1e+04

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

Entries	10000	
Mean x	4.871	
Mean y	4.932	
RMS x	3.159	
RMS y	3.17	
Integral	1e+04	
0	0	0
0	10000	0
0	0	0

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

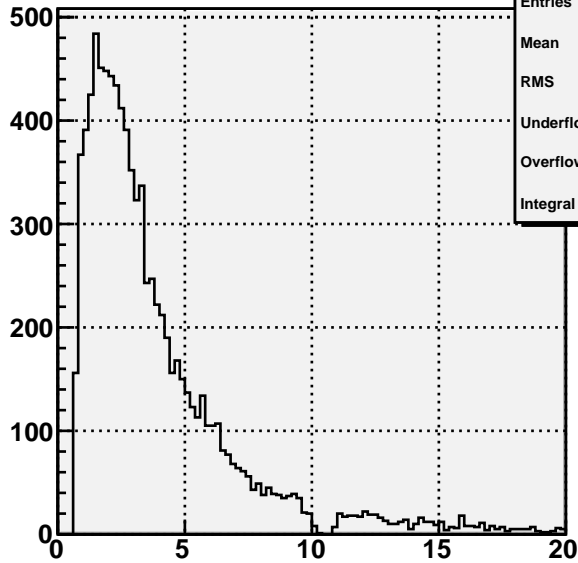
Entries	10000
Mean	0.04271
RMS	0.019
Underflow	0
Overflow	0
Integral	1e+04

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

$k1=0.060$   $k2=0.000$   $k3=0.024$

H1Rtheg1

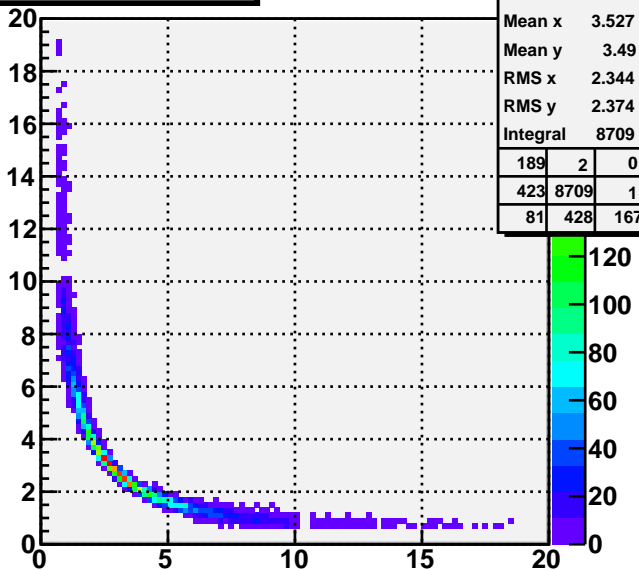
Entries	10000
Mean	3.9
RMS	3.147
Underflow	693
Overflow	168
Integral	9139

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

$q1=0.640$   $q2=0.000$   $q3=0.000$

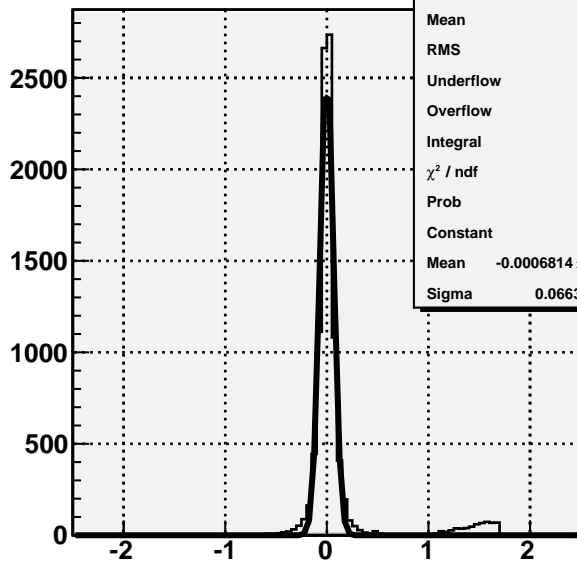
H1Rtheg2

Entries	10000
Mean	3.863
RMS	3.145
Underflow	676
Overflow	191
Integral	9133

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

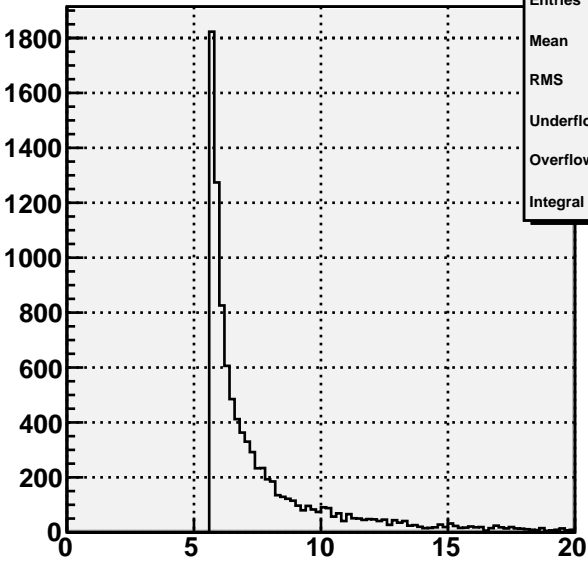
H2Rtheg1vstheg2		
Entries	10000	
Mean x	3.527	
Mean y	3.49	
RMS x	2.344	
RMS y	2.374	
Integral	8709	

189	2	0
423	8709	1
81	428	167

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

H1Dtheg1

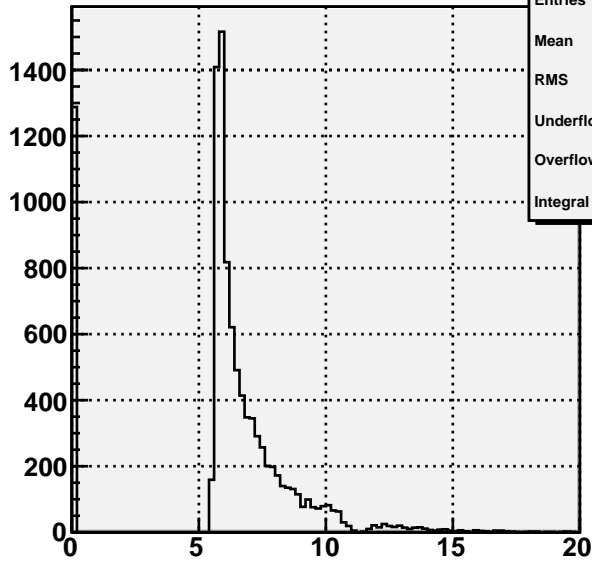
Entries	10000
Mean	0.08301
RMS	0.3643
Underflow	0
Overflow	127
Integral	9873
$\chi^2 / \text{ndf}$	1344 / 60
Prob	0
Constant	$2564 \pm 42.1$
Mean	$-0.0006814 \pm 0.0007185$
Sigma	$0.06635 \pm 0.00082$

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

$k_1=0.060$   $k_2=0.000$   $k_3=0.024$

**H1theg2g1**

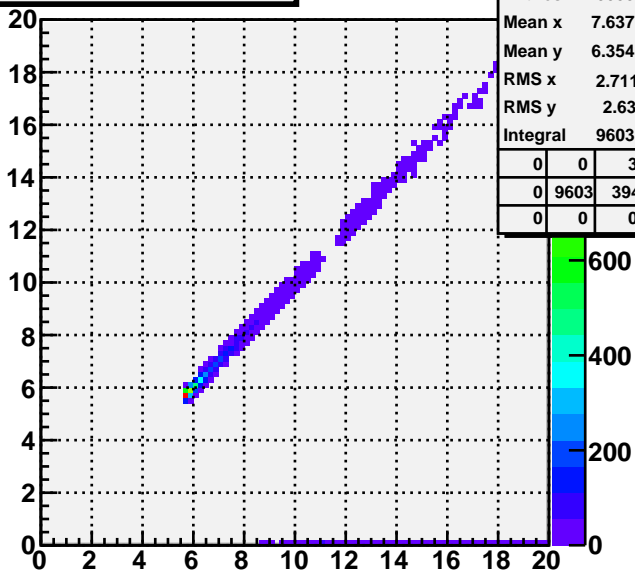
Entries	10000
Mean	7.637
RMS	2.711
Underflow	0
Overflow	397
Integral	9603

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

$q_1=0.640$   $q_2=0.000$   $q_3=0.000$

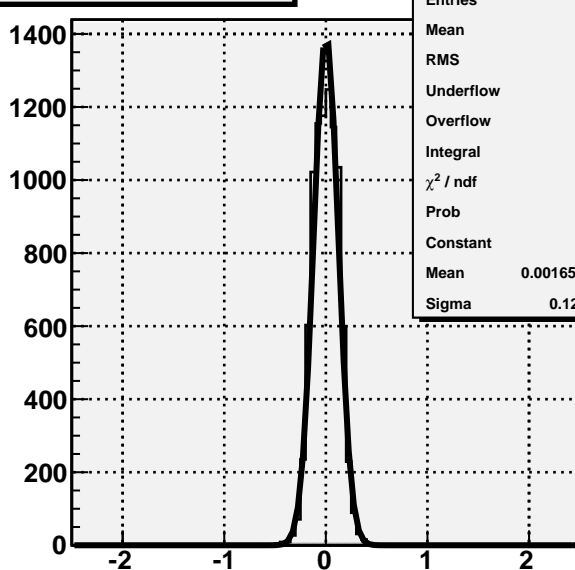
**H1Rtheg2g1**

Entries	10000
Mean	6.103
RMS	2.859
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	2.63
Integral	9603

0	0	3
0	9603	394
0	0	0

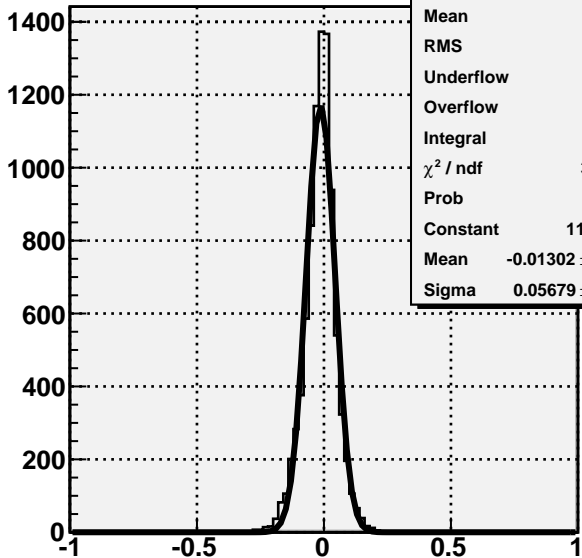
**GEN-REC  $\theta_{\gamma\gamma_2}$  (deg)****H1Dtheg2g1**

Entries	10000
Mean	0.0007739
RMS	0.123
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	207.2 / 19
Prob	1.245e-33
Constant	$1396 \pm 17.9$
Mean	$0.001651 \pm 0.001319$
Sigma	$0.1215 \pm 0.0008$



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

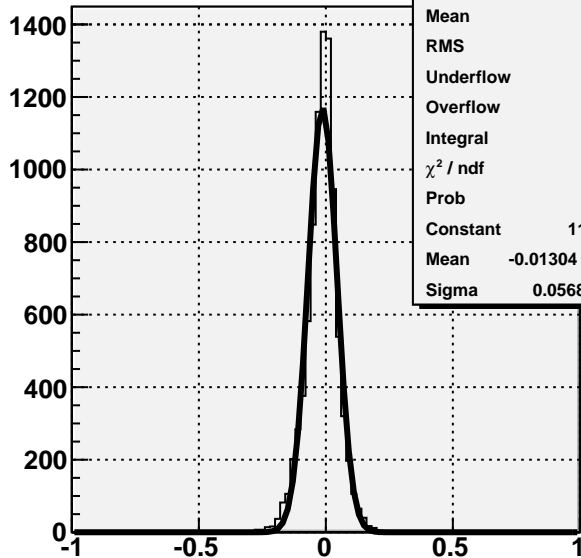
H1Data_the	
Entries	10000
Mean	-0.01488
RMS	0.06125
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	367.5 / 25
Prob	0
Constant	$1172 \pm 18.6$
Mean	$-0.01302 \pm 0.00064$
Sigma	$0.05679 \pm 0.00065$



$k1=0.060$   $k2=0.000$   $k3=0.024$

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

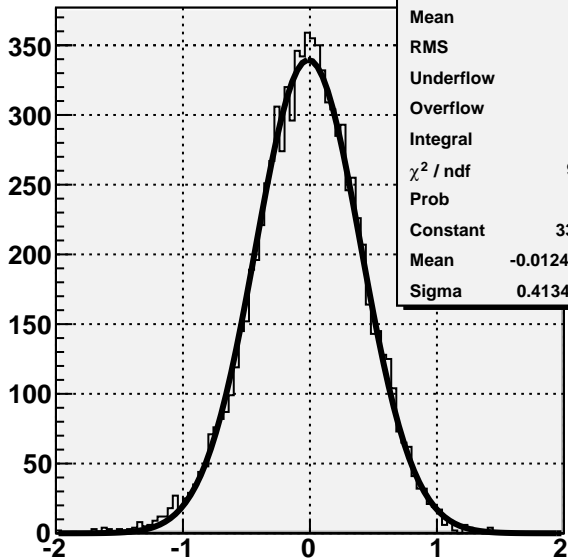
H1Data_the2	
Entries	10000
Mean	-0.01487
RMS	0.06126
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	369.9 / 26
Prob	0
Constant	$1172 \pm 18.6$
Mean	$-0.01304 \pm 0.00064$
Sigma	$0.0568 \pm 0.0007$



$q1=0.640$   $q2=0.000$   $q3=0.000$

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

H1Reta_inelast1	
Entries	9921
Mean	-0.01702
RMS	0.4255
Underflow	1029
Overflow	2
Integral	8890
$\chi^2 / \text{ndf}$	99.98 / 77
Prob	0.04035
Constant	$339.6 \pm 4.5$
Mean	$-0.0124 \pm 0.0045$
Sigma	$0.4134 \pm 0.0034$

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

H1Reta_inelast2	
Entries	9921
Mean	0.009129
RMS	0.2691
Underflow	1209
Overflow	0
Integral	8712
$\chi^2 / \text{ndf}$	170.3 / 55
Prob	1.029e-13
Constant	$535.6 \pm 7.8$
Mean	$0.01018 \pm 0.00276$
Sigma	$0.2545 \pm 0.0025$

