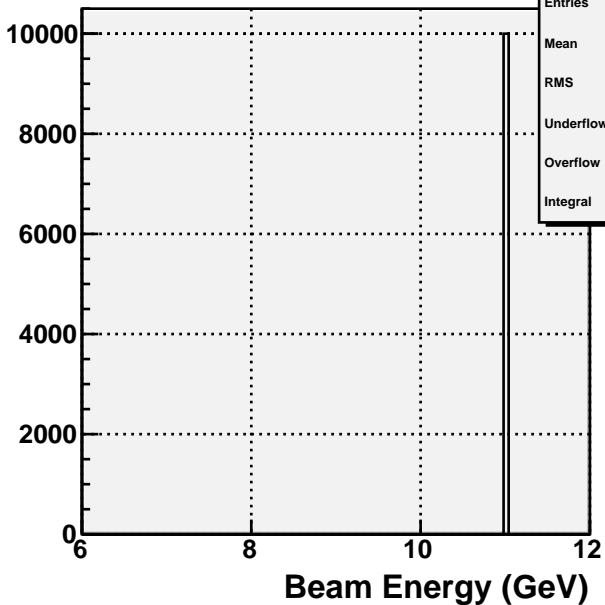
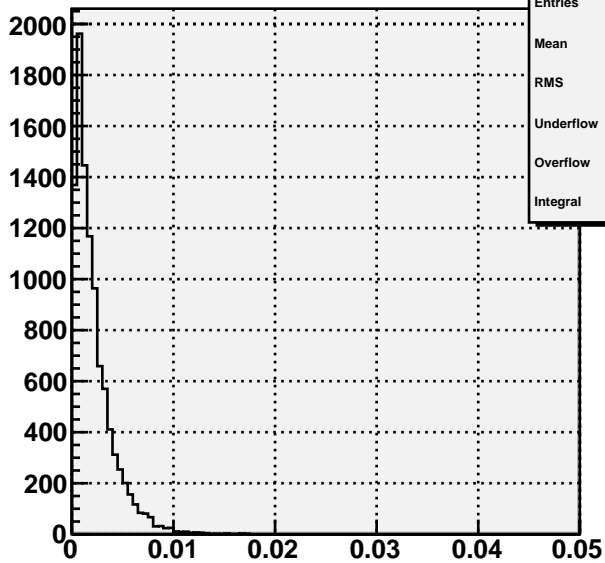
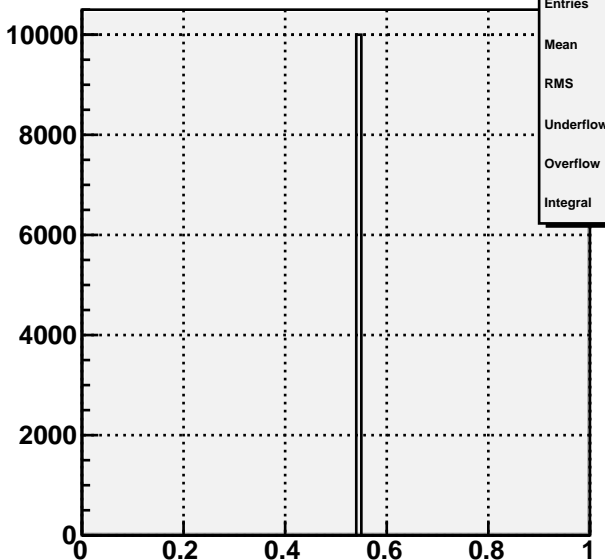


**Eb=11.00 GeV****H1Eb**

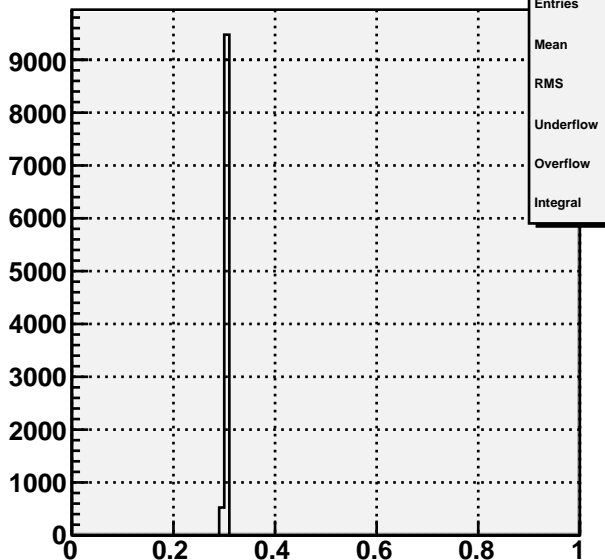
Entries	10000
Mean	11
RMS	8.849e-06
Underflow	0
Overflow	0
Integral	1e+04

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

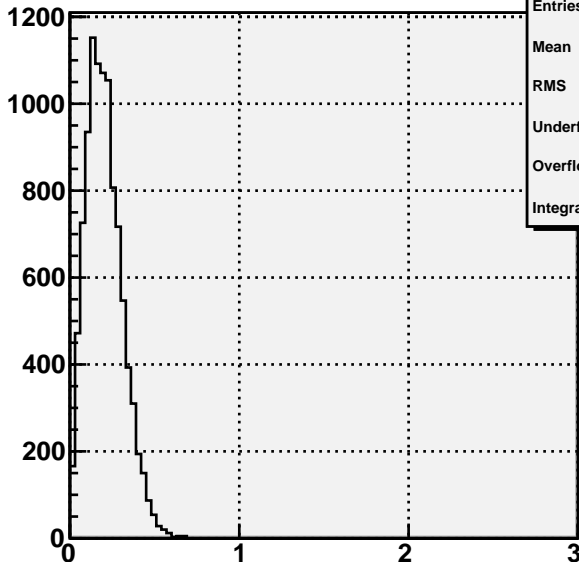
Entries	10000
Mean	0.00218
RMS	0.001977
Underflow	0
Overflow	0
Integral	1e+04

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

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

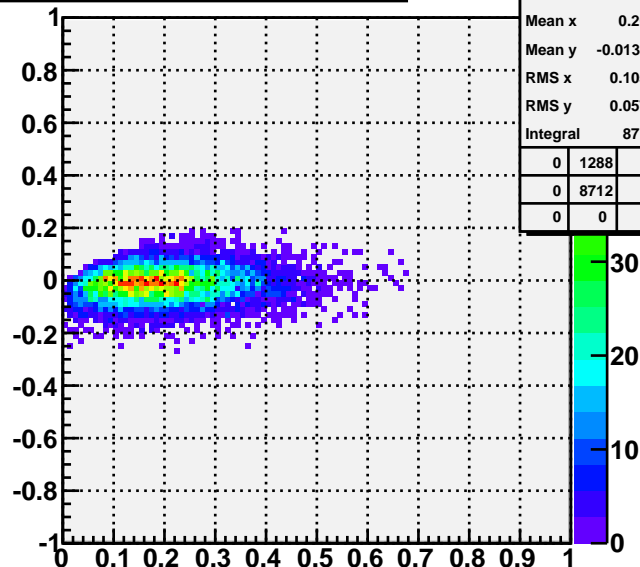
**mg1g2<sup>2</sup> (GeV<sup>2</sup>)****H1mg1g22**

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

$\theta_\eta$  (degrees)

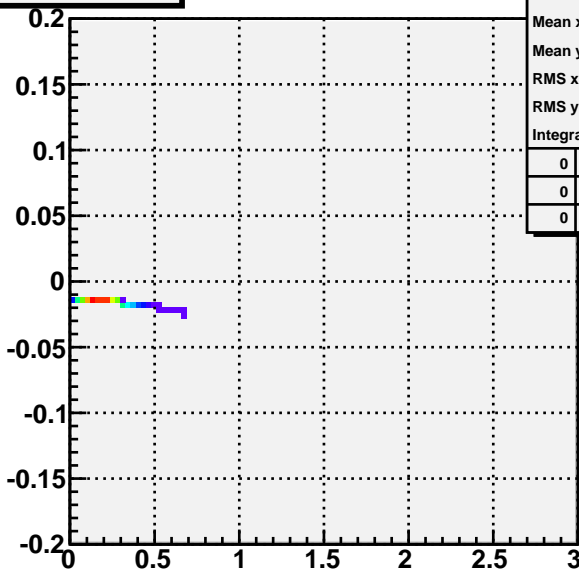
H1eta\_the

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

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

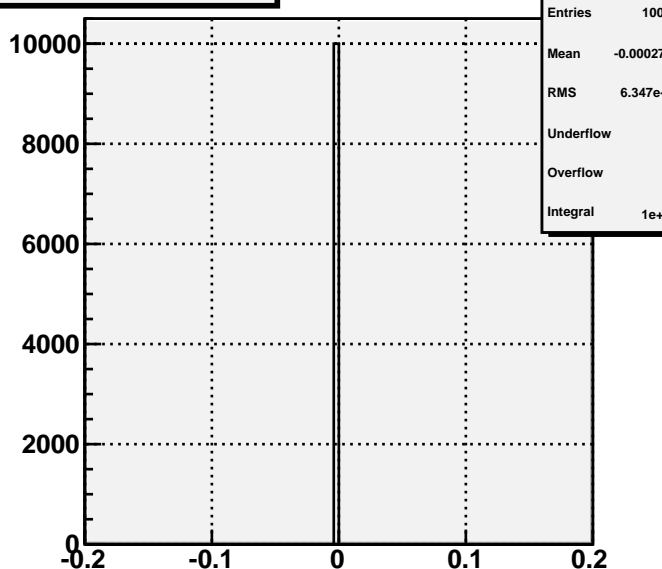
H2Deta\_thevsthe

Entries	10000	
Mean x	0.205	
Mean y	-0.01335	
RMS x	0.1057	
RMS y	0.0573	
Integral	8712	
0	1288	0
0	8712	0
0	0	0

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

H1eta\_inelast\_the

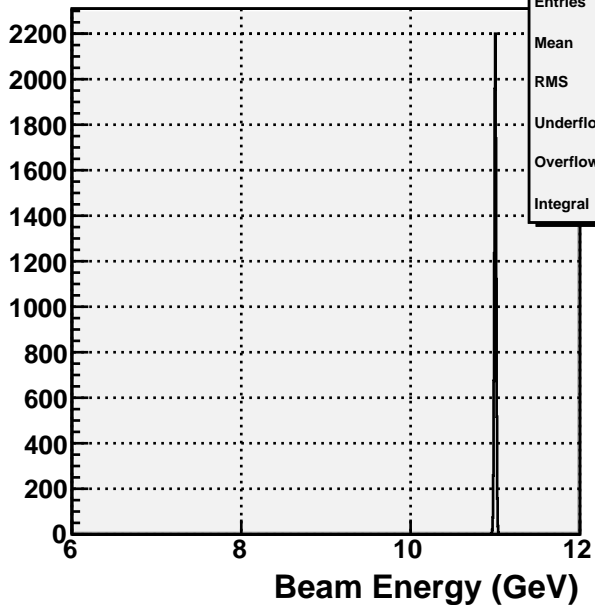
Entries	10000	
Mean x	0.2046	
Mean y	-0.01518	
RMS x	0.106	
RMS y	0.001144	
Integral	1e+04	
0	0	0
0	10000	0
0	0	0

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

H1eta\_inelast1

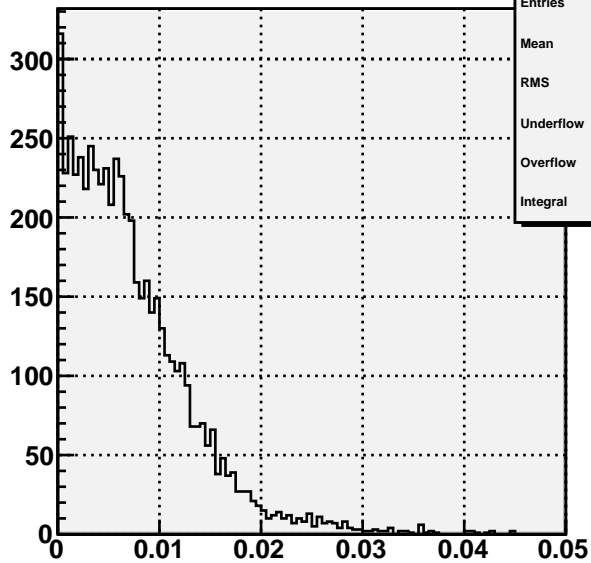
Entries	10000
Mean	-0.0002763
RMS	6.347e-05
Underflow	0
Overflow	0
Integral	1e+04

REC Eb=11.00 GeV



H1REb

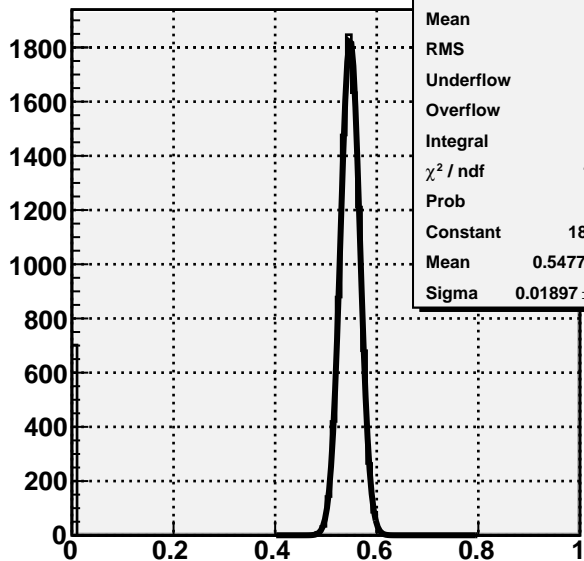
Entries	10000
Mean	11
RMS	0.01094
Underflow	0
Overflow	0
Integral	1e+04

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

H1Rt

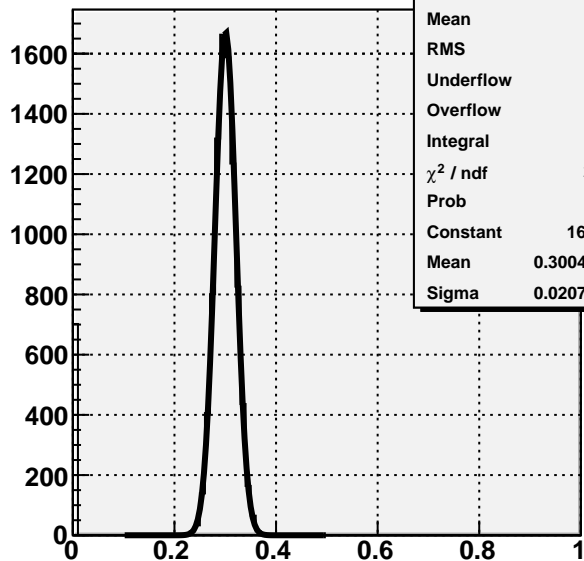
Entries	10000
Mean	0.007294
RMS	0.005998
Underflow	3261
Overflow	1028
Integral	5711

REC mg1g2 (GeV)



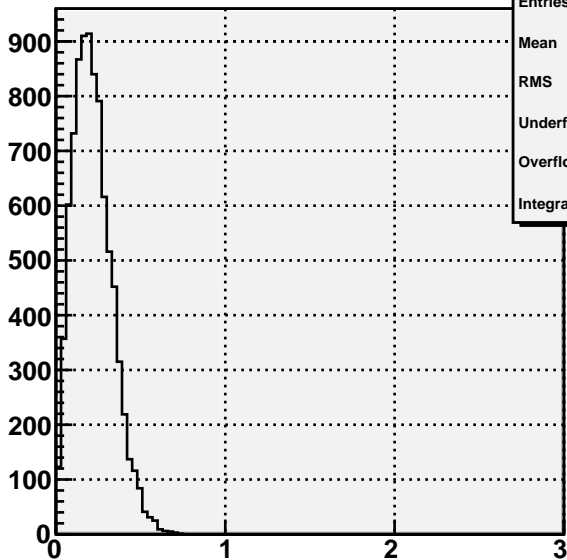
H1Rmg1g2

Entries	10000
Mean	0.5069
RMS	0.1449
Underflow	0
Overflow	586
Integral	9414
$\chi^2 / \text{ndf}$	16.21 / 16
Prob	0.4386
Constant	1829 ± 24.0
Mean	0.5477 ± 0.0002
Sigma	0.01897 ± 0.00014

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

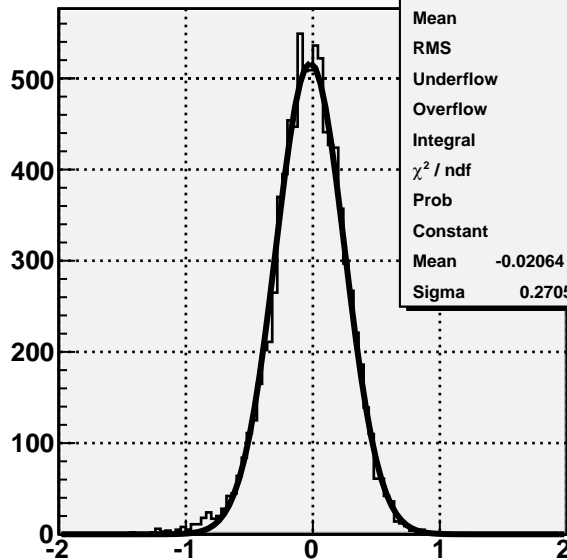
H1Rmg1g22

Entries	10000
Mean	0.278
RMS	0.08139
Underflow	584
Overflow	2
Integral	9414
$\chi^2 / \text{ndf}$	27.07 / 16
Prob	0.04075
Constant	1674 ± 21.9
Mean	0.3004 ± 0.0002
Sigma	0.0207 ± 0.0002

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


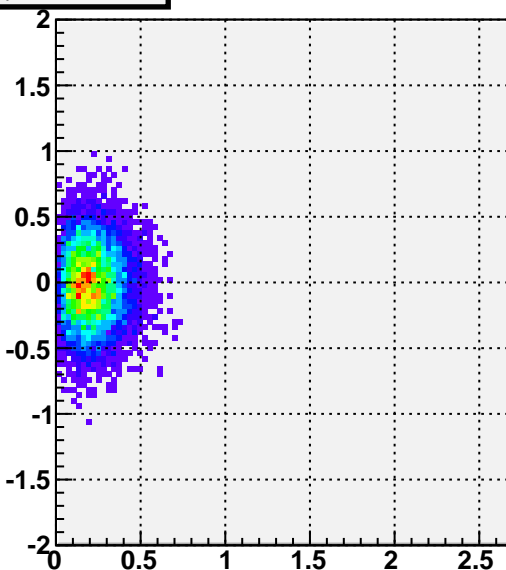
H1Reta_the	
Entries	10000
Mean	0.2183
RMS	0.1137
Underflow	1288
Overflow	0
Integral	8712

k1=0.032 k2=0.003 k3=0.016

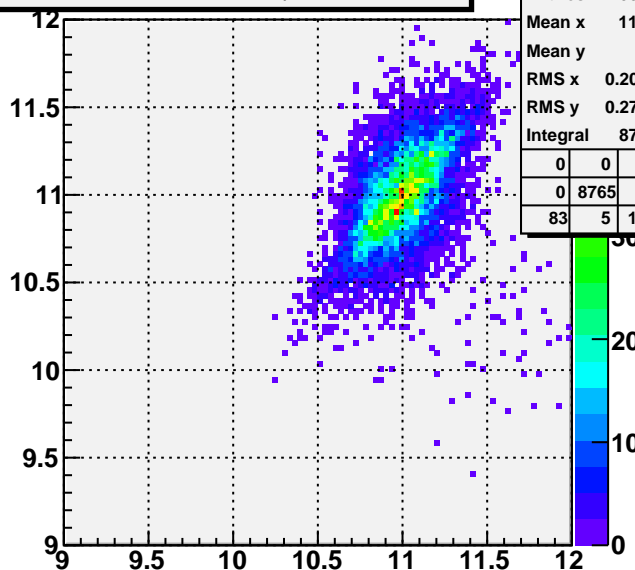
**REC  $p_z_\eta - E_b$** 


H1Reta_pinelast	
Entries	10000
Mean	-0.02902
RMS	0.2851
Underflow	1106
Overflow	2
Integral	8892
$\chi^2 / \text{ndf}$	131.9 / 57
Prob	7.217e-08
Constant	517 ± 7.0
Mean	-0.02064 ± 0.00293
Sigma	0.2705 ± 0.0023

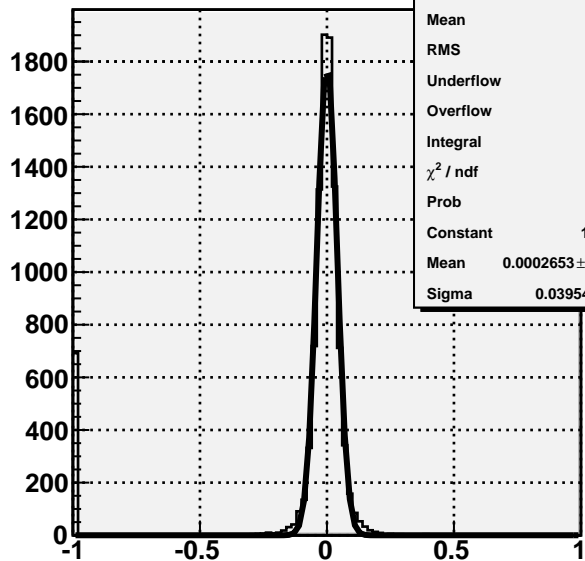
q1=0.770 q2=0.000 q3=0.155

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


H1Reta_inelast_the		
Entries	10000	
Mean x	0.2183	
Mean y	-0.01324	
RMS x	0.1137	
RMS y	0.2635	
Integral	8712	
	2	0
	180	8712
	1106	0

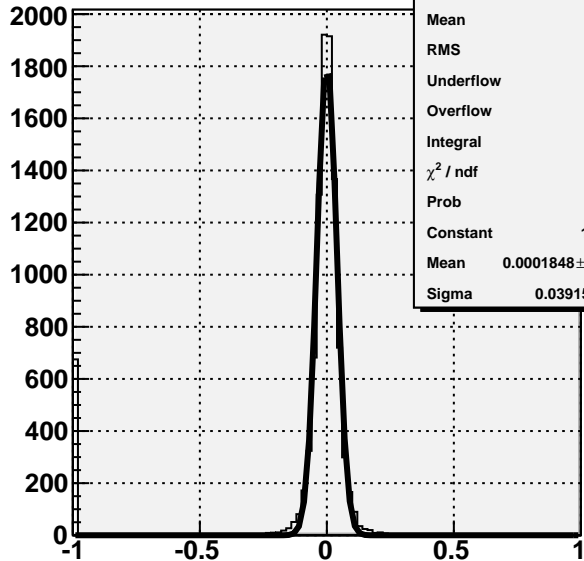
**REC  $E_\eta$  (E1,E2) vs  $E_\eta$  (E1, $\theta$ ) GeV**


H2RetaEvsetaE2		
Entries	10000	
Mean x	11.01	
Mean y	11	
RMS x	0.2006	
RMS y	0.2715	
Integral	8765	
	0	0
	0	8765
	83	5

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

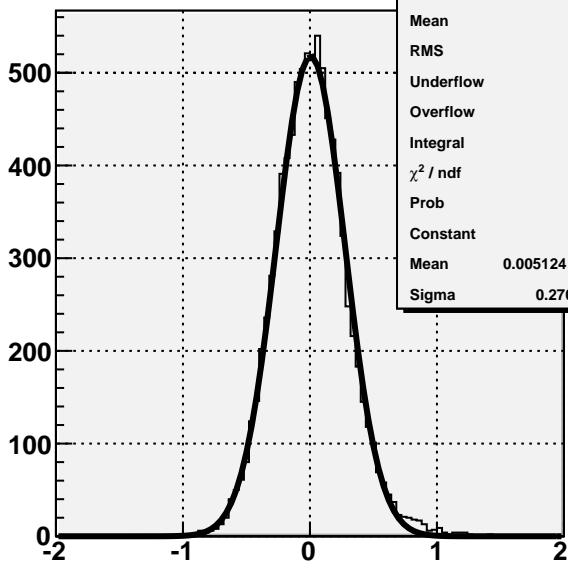
H1Dg1_the	
Entries	10000
Mean	-0.0689
RMS	0.2592
Underflow	0
Overflow	0
Integral	1e+04
$\chi^2 / \text{ndf}$	1079 / 45
Prob	0
Constant	1800 ± 26.3
Mean	0.0002653 ± 0.0004188
Sigma	0.03954 ± 0.00040

$k1=0.032$   $k2=0.003$   $k3=0.016$

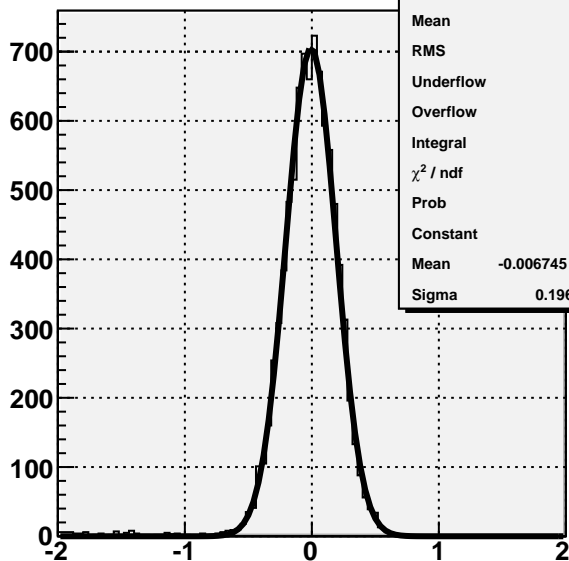
**GEN-REC  $\Delta E_{\gamma 2}/E$** 

H1Dg2_the	
Entries	10000
Mean	-0.06745
RMS	0.2561
Underflow	0
Overflow	0
Integral	1e+04
$\chi^2 / \text{ndf}$	1083 / 45
Prob	0
Constant	1817 ± 27.0
Mean	0.0001848 ± 0.0004162
Sigma	0.03915 ± 0.00041

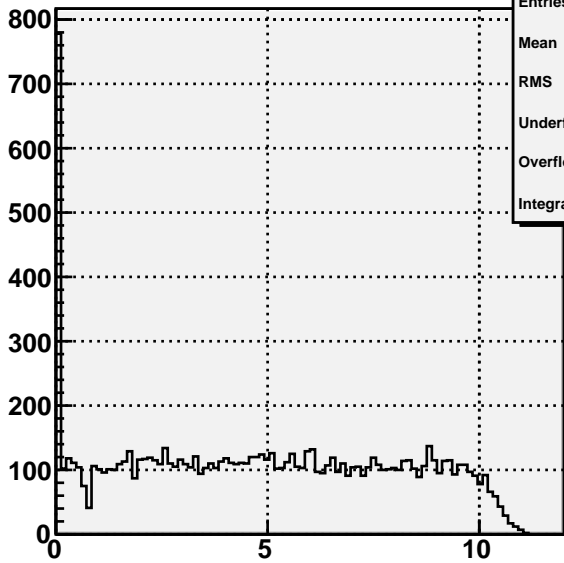
$q1=0.770$   $q2=0.000$   $q3=0.155$

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

H1Deta_E	
Entries	10000
Mean	0.01406
RMS	0.2857
Underflow	0
Overflow	1108
Integral	8892
$\chi^2 / \text{ndf}$	112.8 / 58
Prob	2.206e-05
Constant	518 ± 7.0
Mean	0.005124 ± 0.002926
Sigma	0.2705 ± 0.0022

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

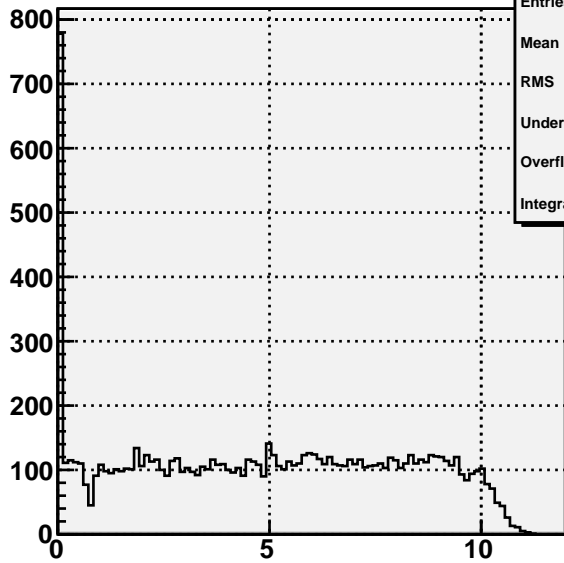
H1Deta_E2	
Entries	10000
Mean	-0.02368
RMS	0.256
Underflow	1057
Overflow	83
Integral	8860
$\chi^2 / \text{ndf}$	154.5 / 69
Prob	1.731e-08
Constant	706.2 ± 9.4
Mean	-0.006745 ± 0.002114
Sigma	0.1967 ± 0.0016

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

k1=0.032 k2=0.003 k3=0.016

**H1REg1**

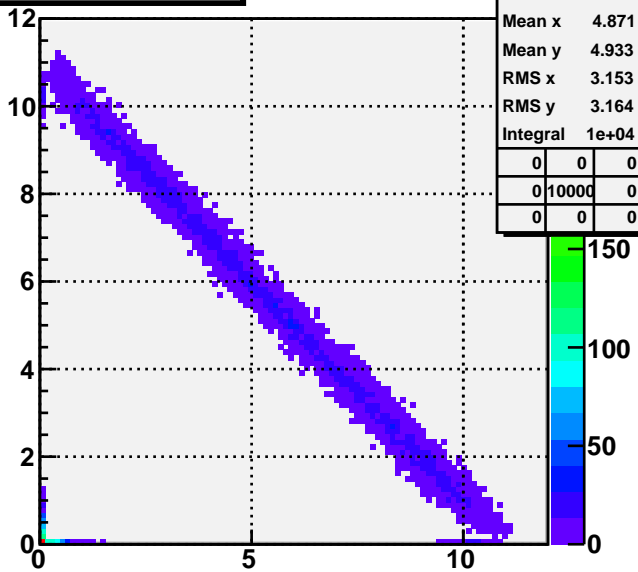
Entries	10000
Mean	4.871
RMS	3.153
Underflow	0
Overflow	0
Integral	1e+04

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

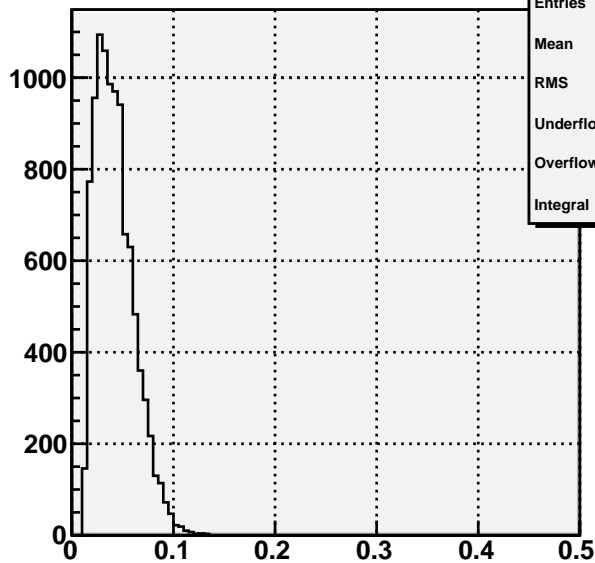
q1=0.770 q2=0.000 q3=0.155

**H1REg2**

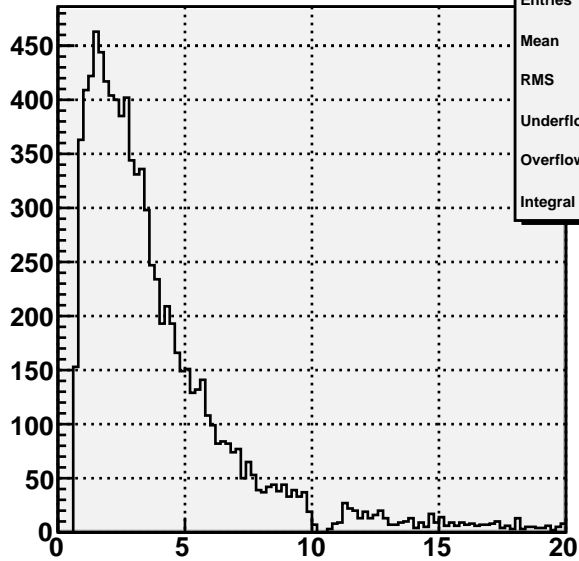
Entries	10000
Mean	4.933
RMS	3.164
Underflow	0
Overflow	0
Integral	1e+04

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

Entries	10000	
Mean x	4.871	
Mean y	4.933	
RMS x	3.153	
RMS y	3.164	
Integral	1e+04	
0	0	0
0	10000	0
0	0	0

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

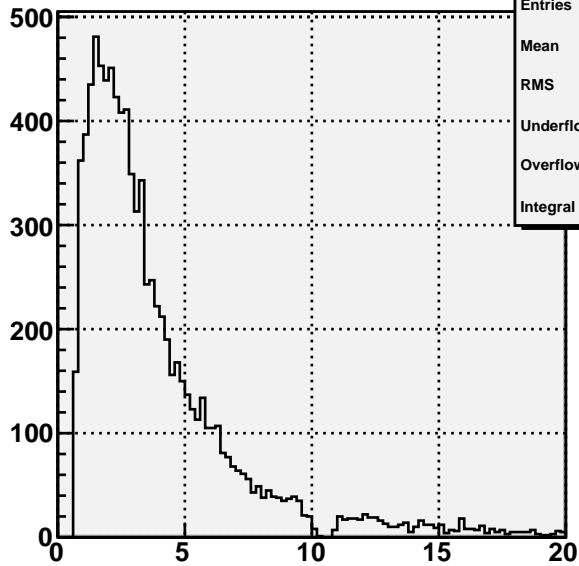
Entries	10000
Mean	0.04271
RMS	0.019
Underflow	0
Overflow	0
Integral	1e+04

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

$k1=0.032$   $k2=0.003$   $k3=0.016$

**H1Rtheg1**

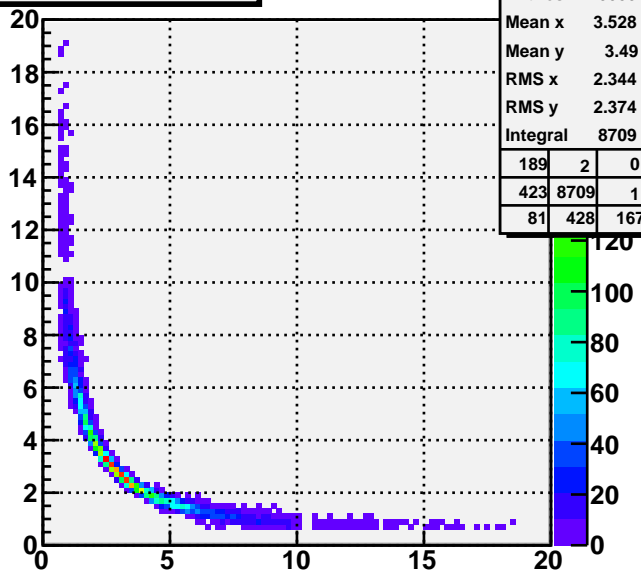
Entries	10000
Mean	3.901
RMS	3.147
Underflow	693
Overflow	168
Integral	9139

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

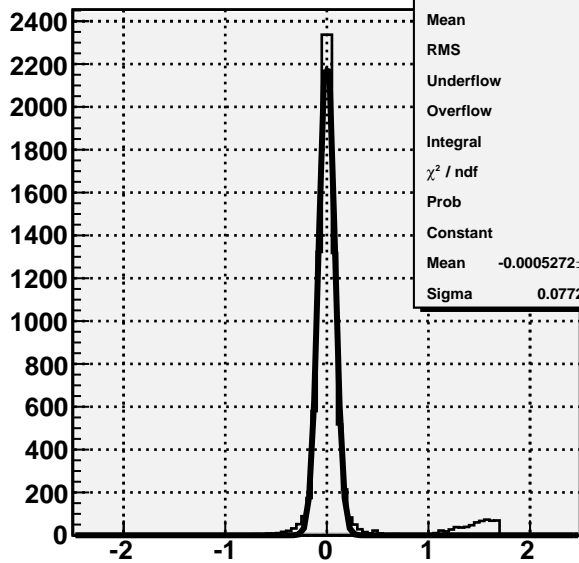
$q1=0.770$   $q2=0.000$   $q3=0.155$

**H1Rtheg2**

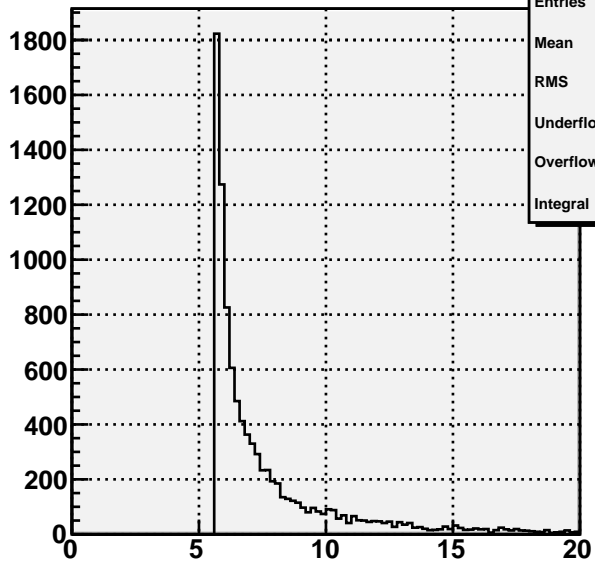
Entries	10000
Mean	3.863
RMS	3.145
Underflow	676
Overflow	191
Integral	9133

**REC  $\theta_{\gamma 2}$  vs  $\theta_{\gamma 2}$  (deg)****H2Rtheg1vstheg2**

Entries	10000		
Mean x	3.528		
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**

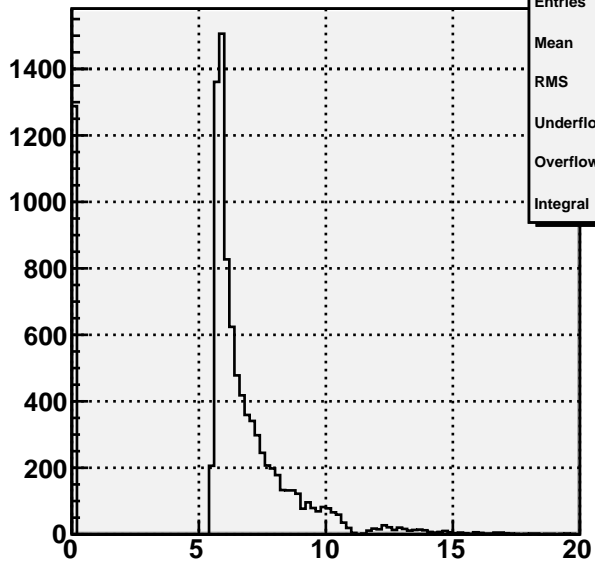
Entries	10000
Mean	0.08293
RMS	0.3653
Underflow	0
Overflow	127
Integral	9873
$\chi^2 / \text{ndf}$	1018 / 60
Prob	0
Constant	$2286 \pm 33.3$
Mean	$-0.0005272 \pm 0.0008232$
Sigma	$0.07727 \pm 0.00077$

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

k1=0.032 k2=0.003 k3=0.016

**H1theg2g1**

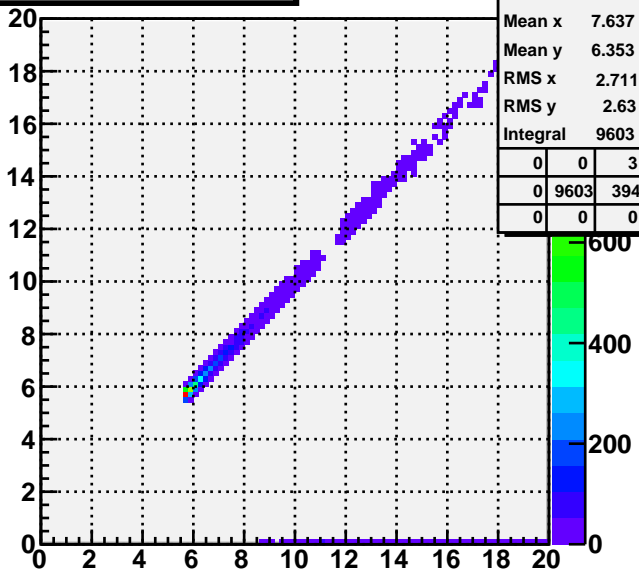
Entries	10000
Mean	7.637
RMS	2.711
Underflow	0
Overflow	397
Integral	9603

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

q1=0.770 q2=0.000 q3=0.155

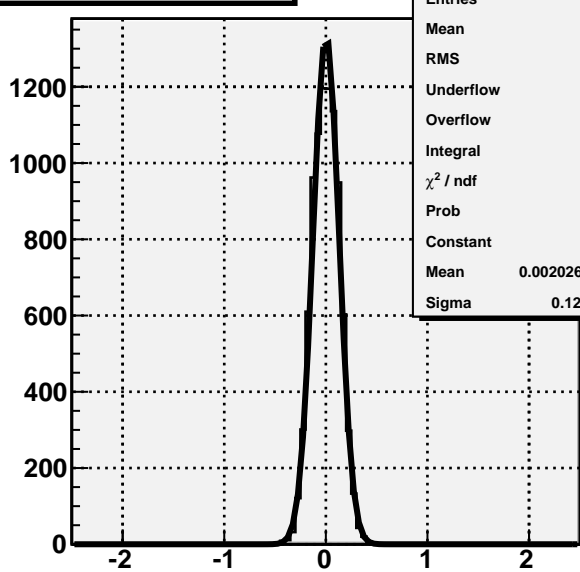
**H1Rtheg2g1**

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**

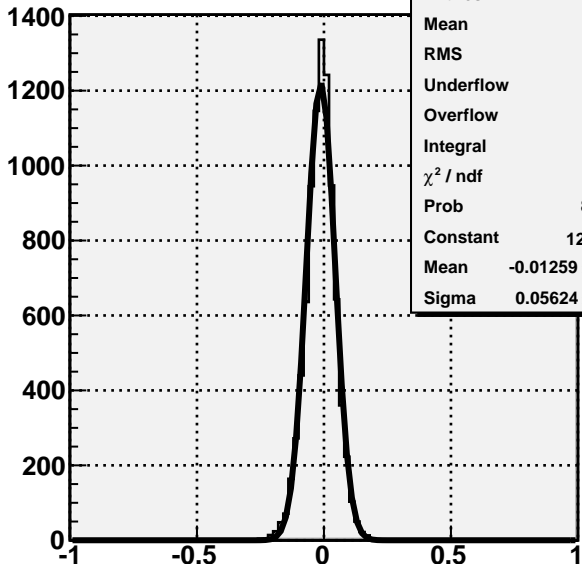
Entries	10000
Mean x	7.637
Mean y	6.353
RMS x	2.711
RMS y	2.63
Integral	9603

0	0	3
0	9603	394
0	0	0

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

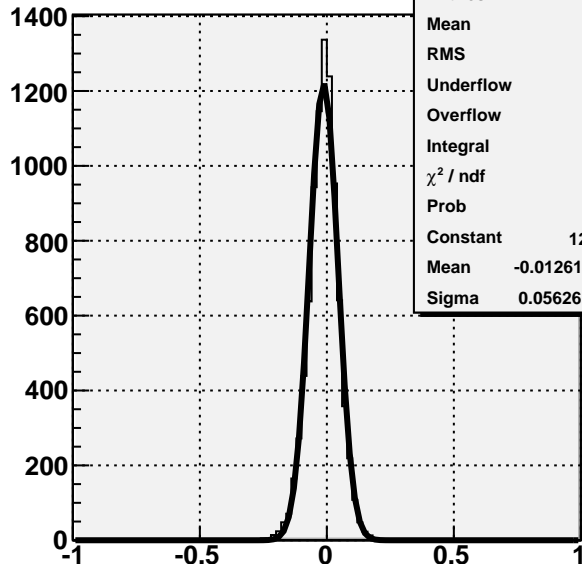
Entries	10000
Mean	0.0009767
RMS	0.1297
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	108.6 / 20
Prob	3.578e-14
Constant	1334 ± 17.0
Mean	0.002026 ± 0.001388
Sigma	0.1286 ± 0.0009



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

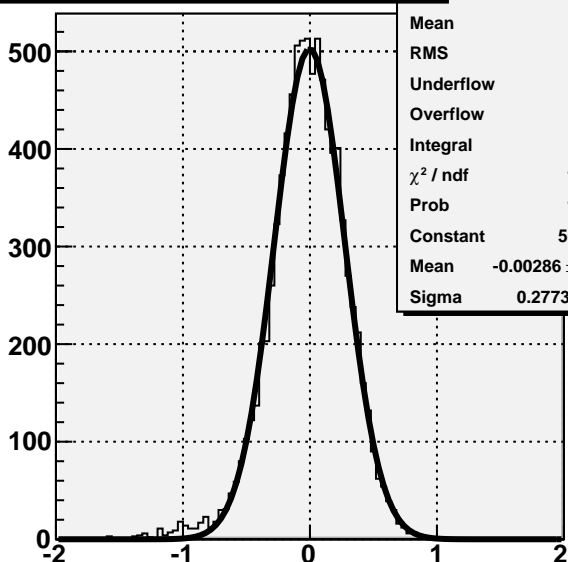
$k_1=0.032$   $k_2=0.003$   $k_3=0.016$

H1Data_the	
Entries	10000
Mean	-0.01335
RMS	0.0573
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	97.35 / 21
Prob	8.475e-12
Constant	$1222 \pm 17.2$
Mean	$-0.01259 \pm 0.00061$
Sigma	$0.05624 \pm 0.00051$

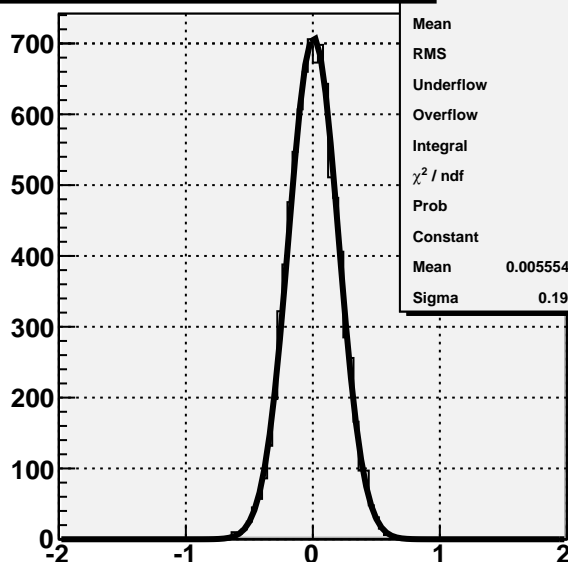
**GEN-REC  $\theta_\eta$  EQ11 (degrees)**

$q_1=0.770$   $q_2=0.000$   $q_3=0.155$

H1Data_the2	
Entries	10000
Mean	-0.01335
RMS	0.05731
Underflow	0
Overflow	1288
Integral	8712
$\chi^2 / \text{ndf}$	98.18 / 21
Prob	6.057e-12
Constant	$1222 \pm 17.2$
Mean	$-0.01261 \pm 0.00061$
Sigma	$0.05626 \pm 0.00051$

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

H1Reta_inelast1	
Entries	9921
Mean	-0.0171
RMS	0.3018
Underflow	1027
Overflow	2
Integral	8892
$\chi^2 / \text{ndf}$	153.4 / 62
Prob	1.033e-09
Constant	$502.9 \pm 6.8$
Mean	$-0.00286 \pm 0.00299$
Sigma	$0.2773 \pm 0.0023$

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

H1Reta_inelast2	
Entries	9921
Mean	0.005554
RMS	0.1961
Underflow	1209
Overflow	0
Integral	8712
$\chi^2 / \text{ndf}$	42.41 / 35
Prob	0.1818
Constant	$708.7 \pm 9.3$
Mean	$0.005554 \pm 0.002099$
Sigma	$0.1952 \pm 0.0015$