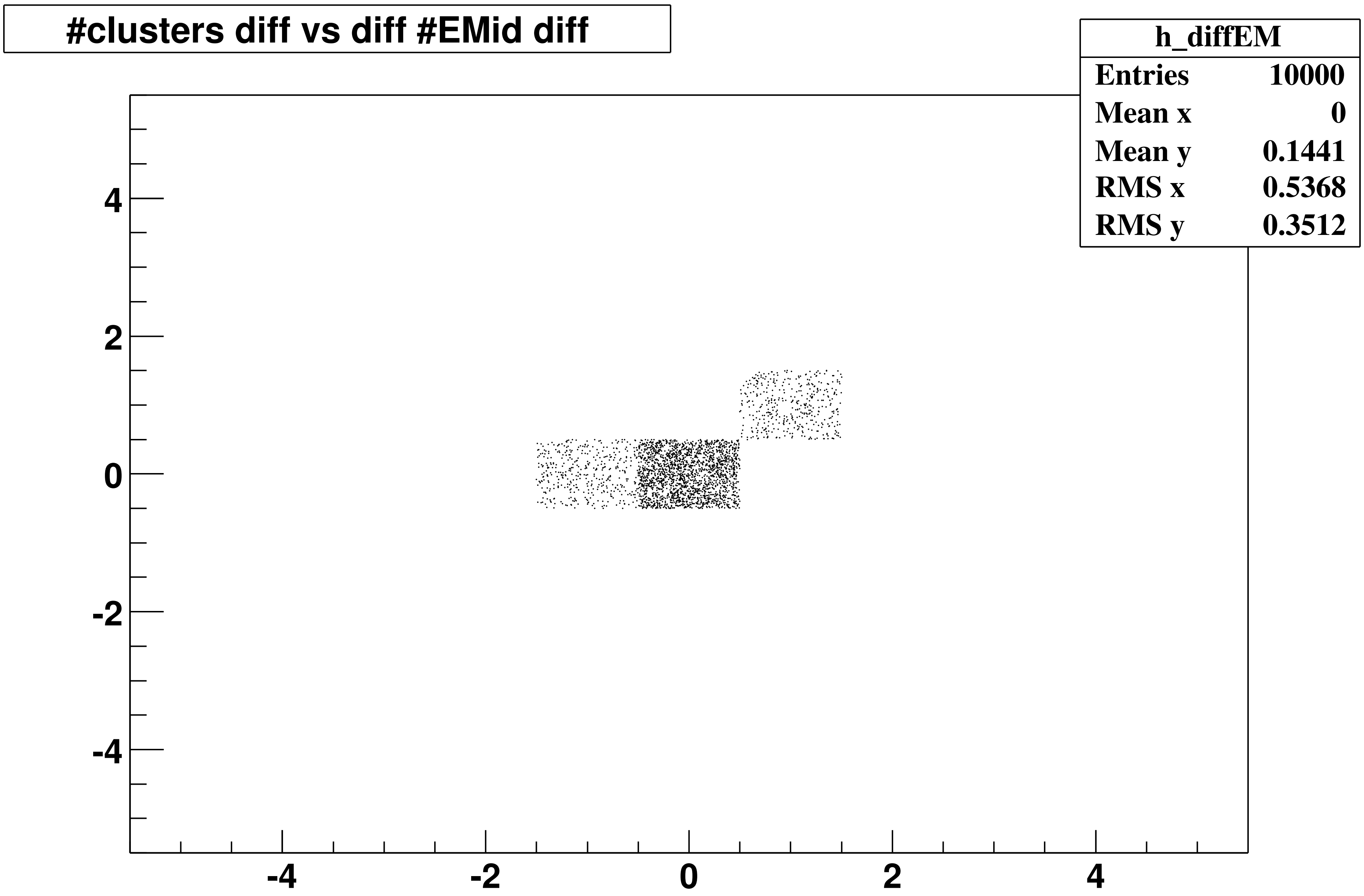
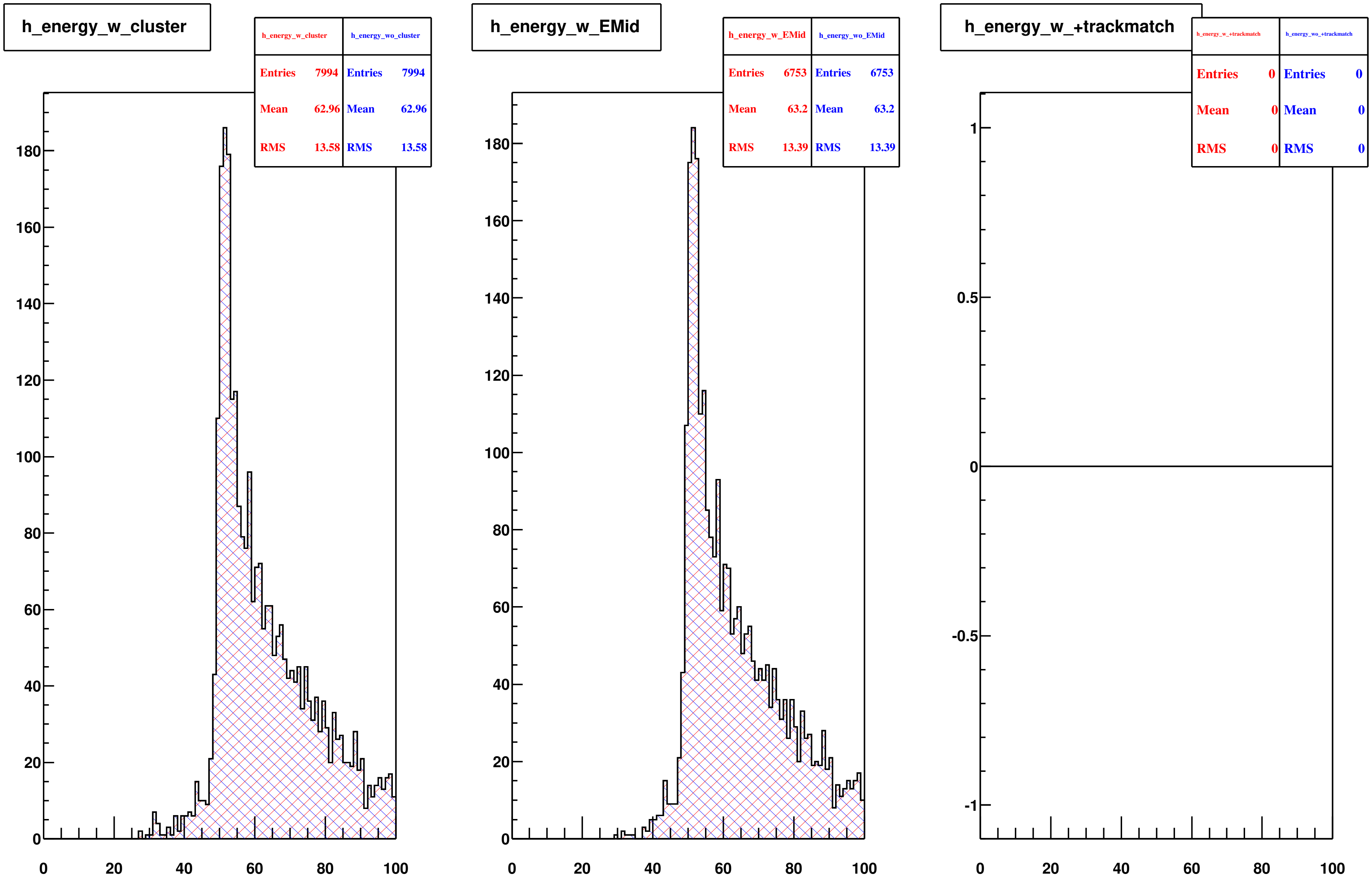
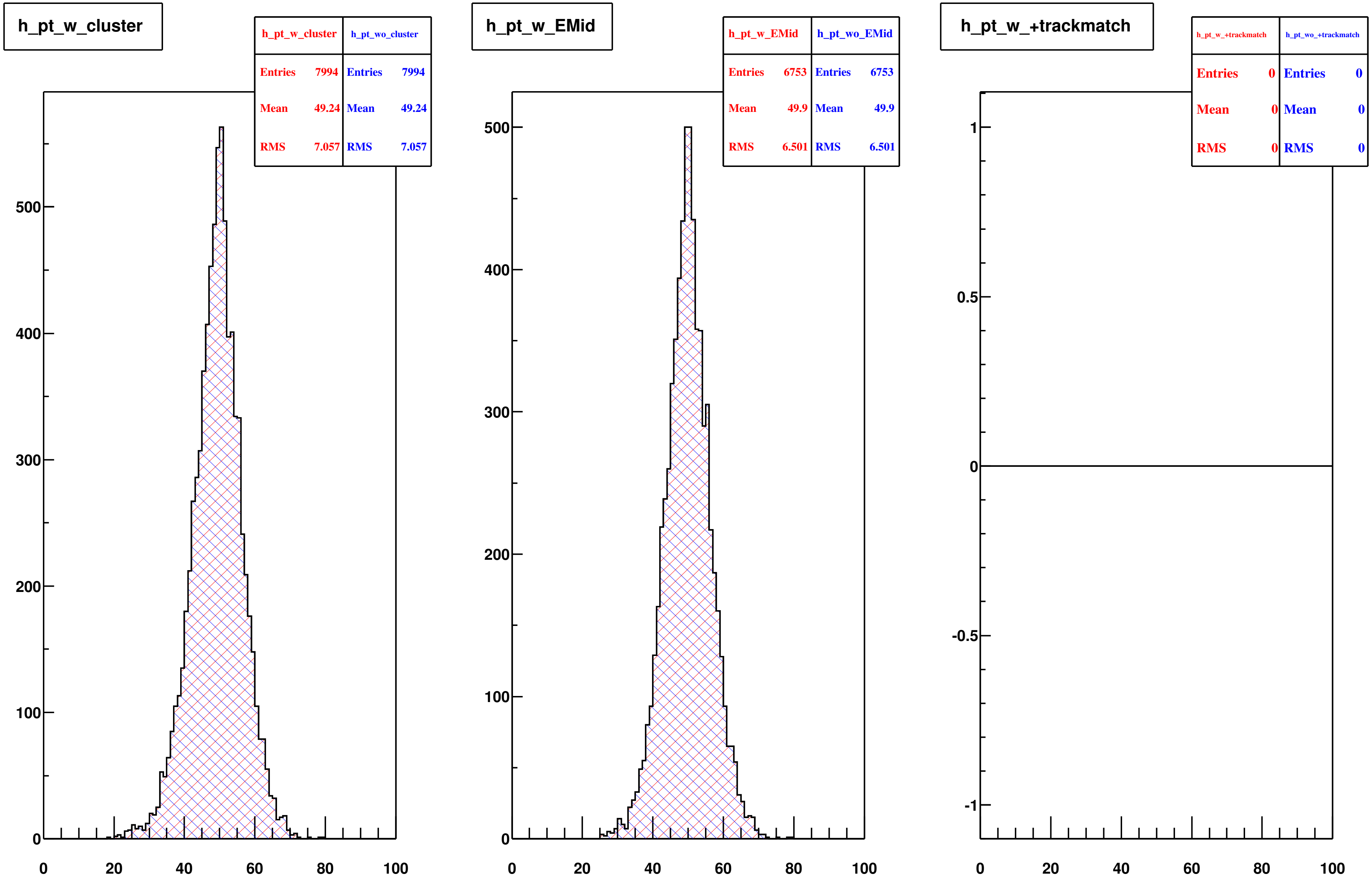
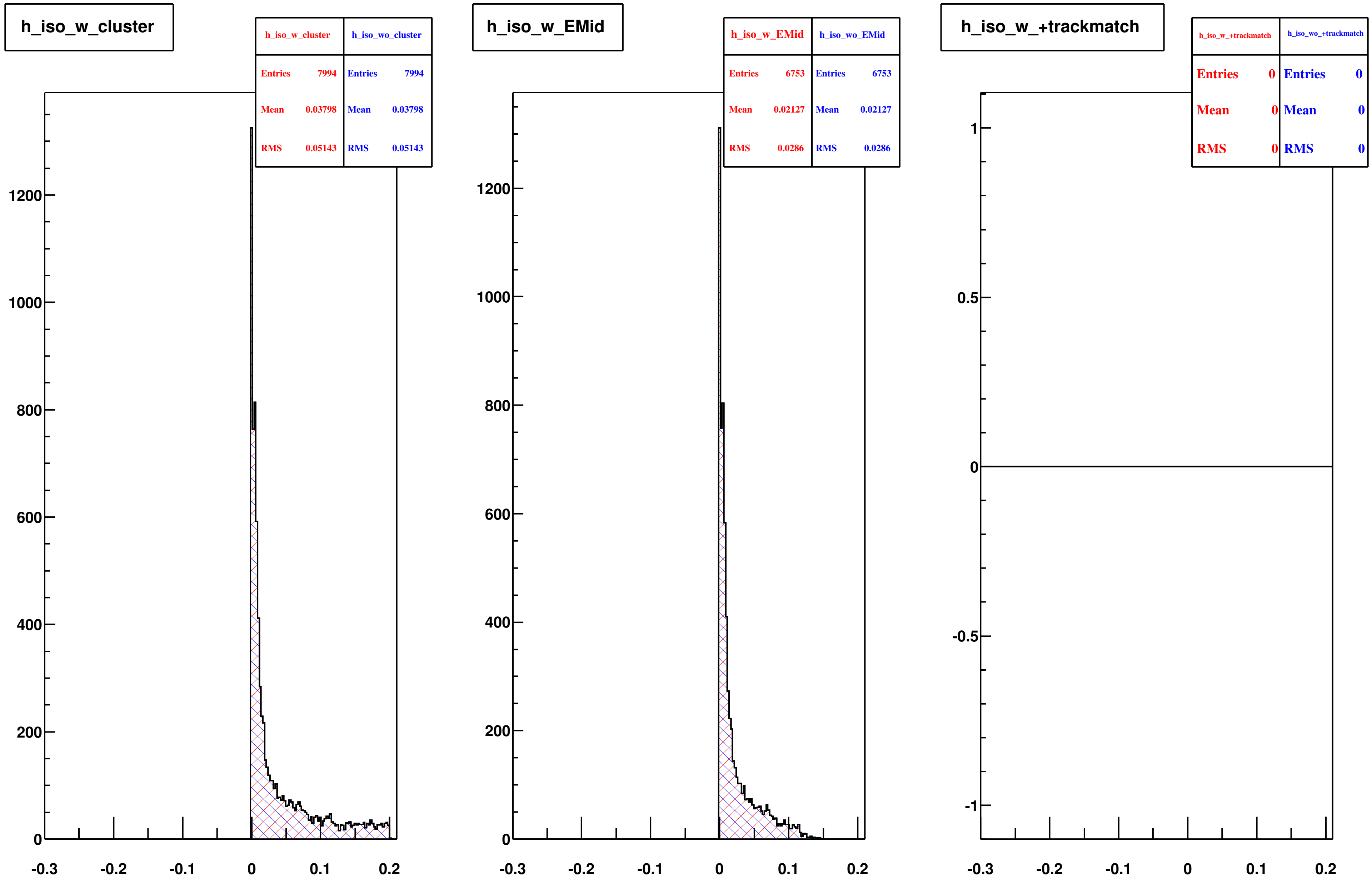

#clusters diff vs diff #EMid diff
h_diffEM
Entries 10000
Mean x 0
Mean y 0.1441
RMS x 0.5368
RMS y 0.3512
4
2
0
-2
-4
-4
-2
0
2
4



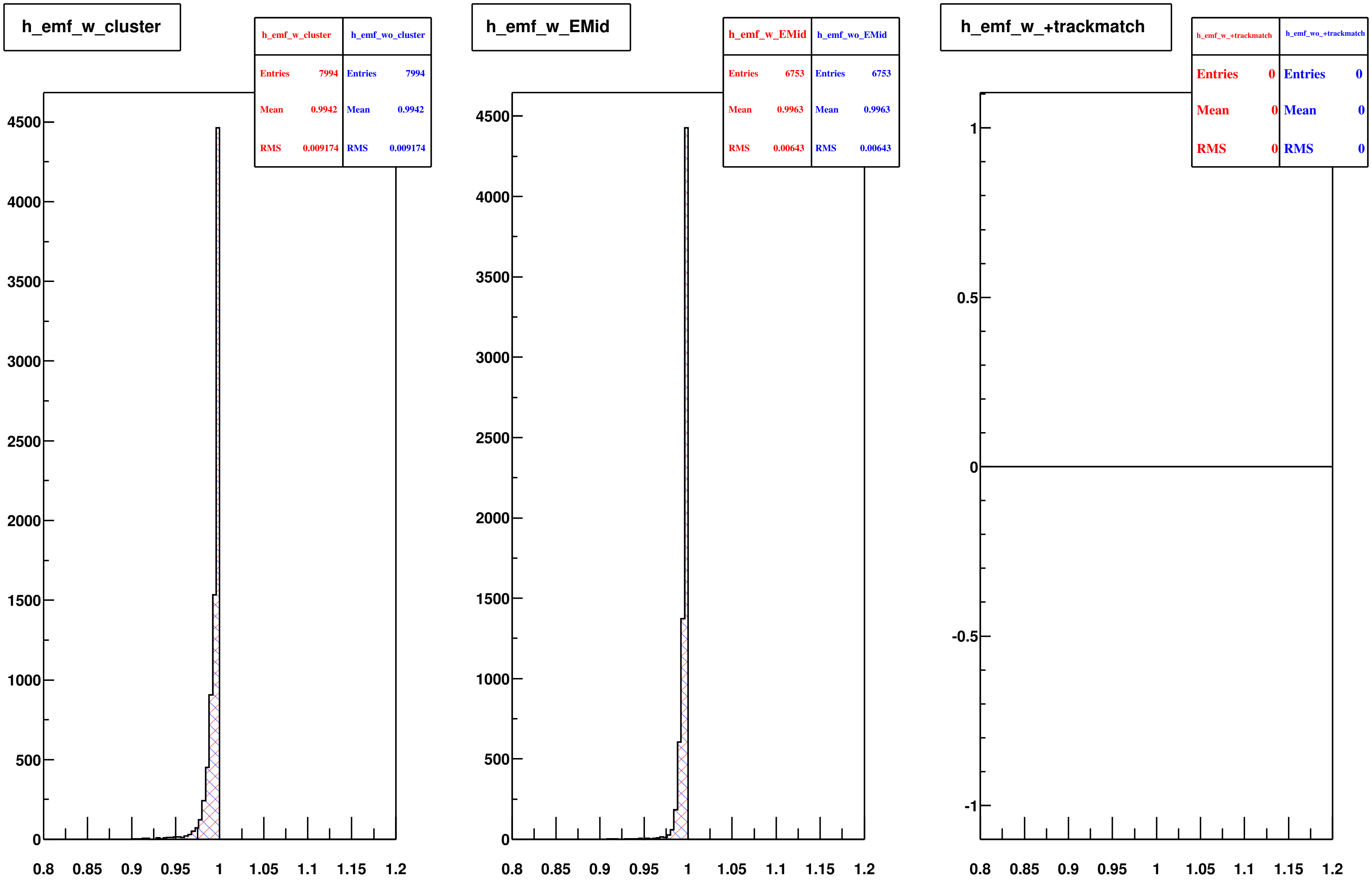
h_energy_w_cluster
h_energy_w_cluster
Entries 7994
Mean 62.96
RMS 13.58
h_energy_wo_cluster
Entries 7994
Mean 62.96
RMS 13.58
0
20
40
60
80
100
120
140
160
180
0
20
40
60
80
100
h_energy_w_EMid
h_energy_w_EMid
Entries 6753
Mean 63.2
RMS 13.39
h_energy_wo_EMid
Entries 6753
Mean 63.2
RMS 13.39
0
20
40
60
80
100
120
140
160
180
0
20
40
60
80
100
h_energy_w_+trackmatch
Entries 0
Mean 0
RMS 0
Entries 0
Mean 0
RMS 0
-1
-0.5
0
0.5
1
0
20
40
60
80
100

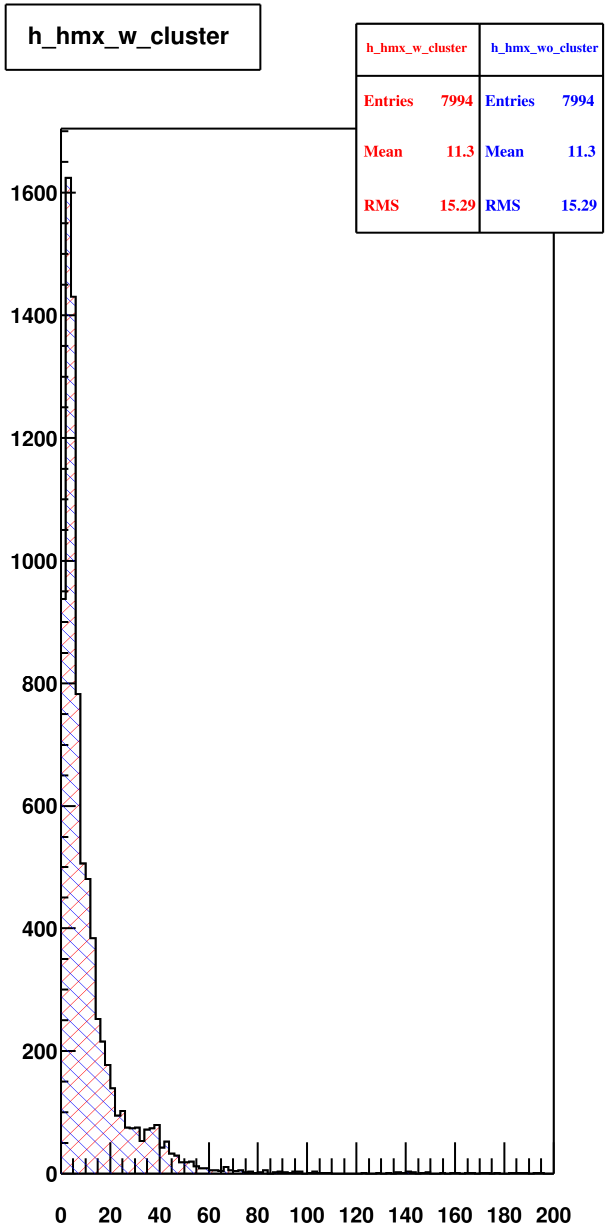


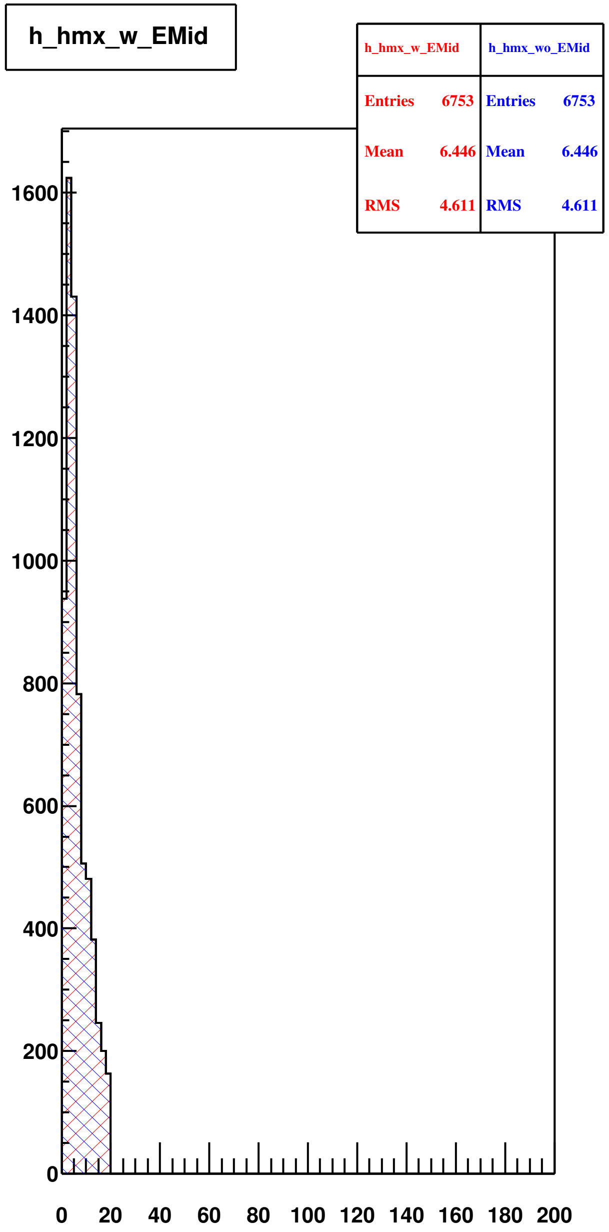
h_pt_w_cluster
h_pt_w_cluster
Entries 7994
Mean 49.24
RMS 7.057
h_pt_wo_cluster
Entries 7994
Mean 49.24
RMS 7.057
h_pt_w_EMid
h_pt_w_EMid
Entries 6753
Mean 49.9
RMS 6.501
h_pt_wo_EMid
Entries 6753
Mean 49.9
RMS 6.501
h_pt_w_+trackmatch
h_pt_w_+trackmatch
Entries 0
Mean 0
RMS 0
h_pt_wo_+trackmatch
Entries 0
Mean 0
RMS 0

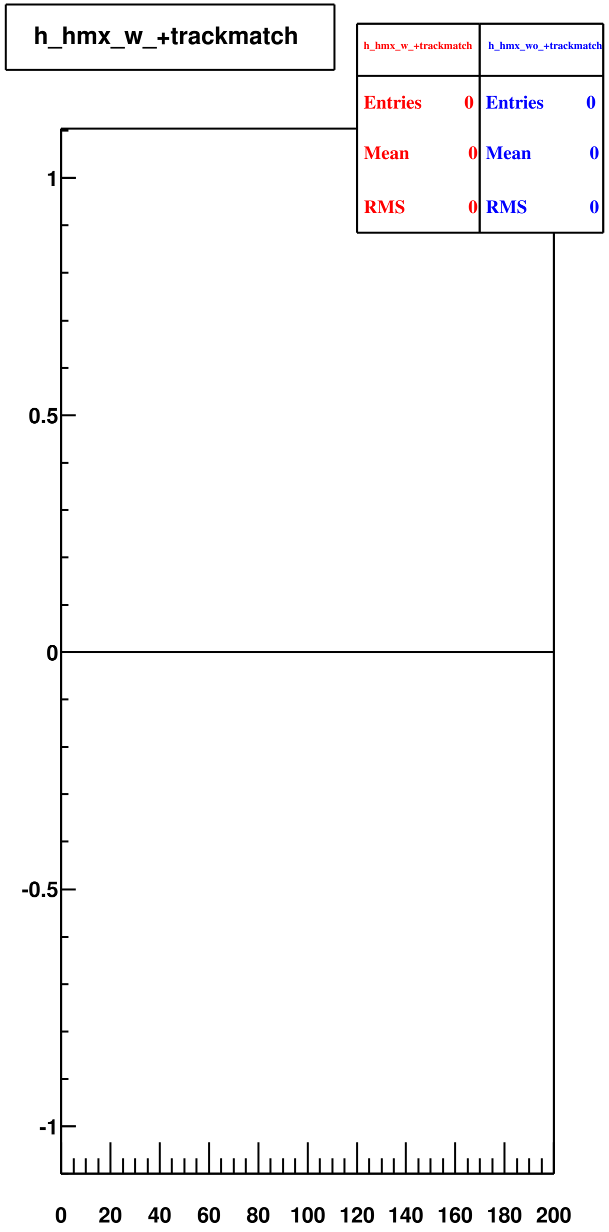


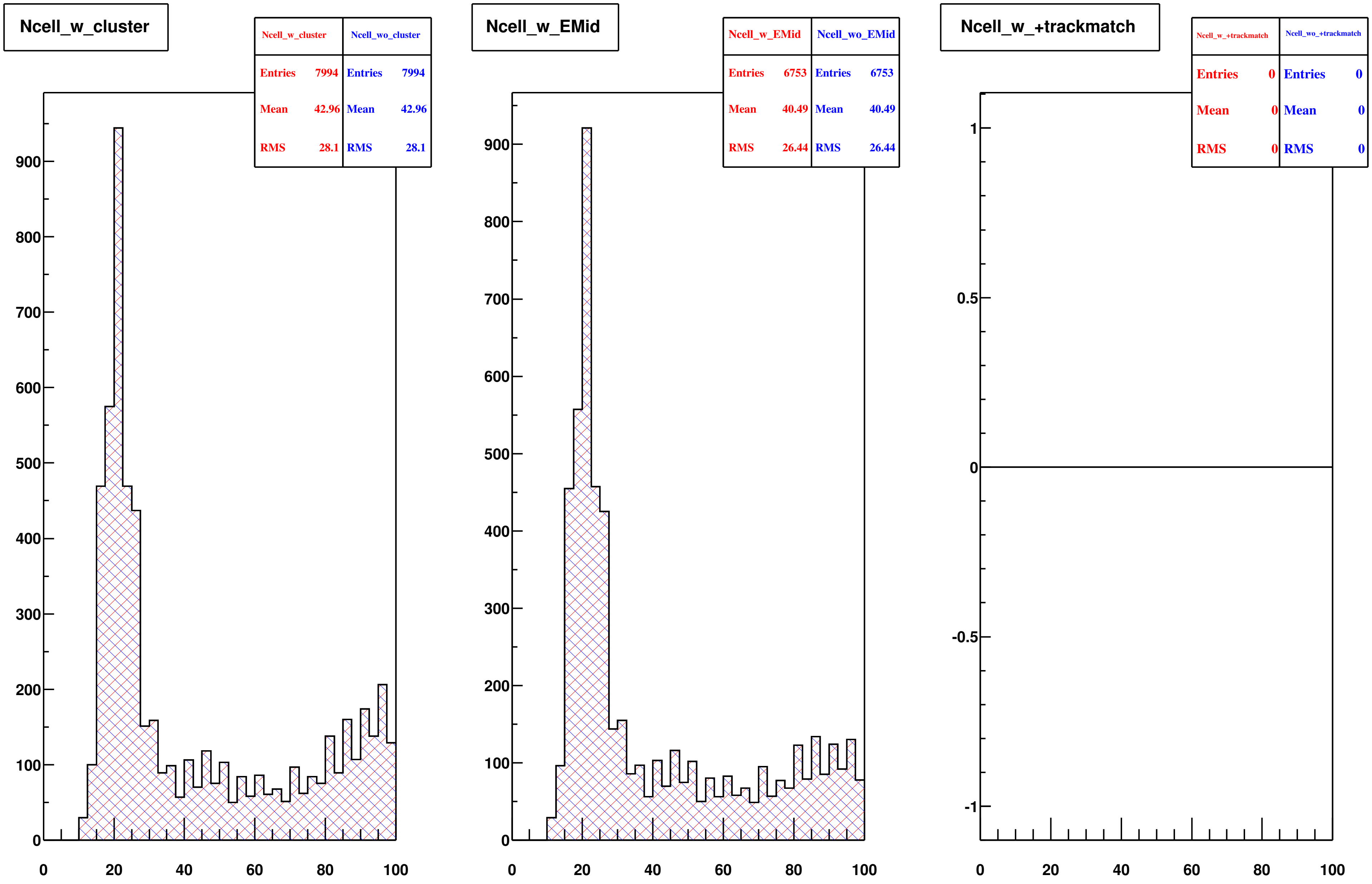
h_iso_w_cluster
h_iso_w_cluster
Entries 7994
Mean 0.03798
RMS 0.05143
h_iso_wo_cluster
Entries 7994
Mean 0.03798
RMS 0.05143
h_iso_w_EMid
h_iso_w_EMid
Entries 6753
Mean 0.02127
RMS 0.0286
h_iso_wo_EMid
Entries 6753
Mean 0.02127
RMS 0.0286
h_iso_w_+trackmatch
h_iso_w_+trackmatch
Entries 0
Mean 0
RMS 0
h_iso_wo_+trackmatch
Entries 0
Mean 0
RMS 0


h_emf_w_cluster
h_emf_w_cluster
Entries 7994
Mean 0.9942
RMS 0.009174
h_emf_wo_cluster
Entries 7994
Mean 0.9942
RMS 0.009174
h_emf_w_EMid
h_emf_w_EMid
Entries 6753
Mean 0.9963
RMS 0.00643
h_emf_wo_EMid
Entries 6753
Mean 0.9963
RMS 0.00643
h_emf_w_+trackmatch
h_emf_w_+trackmatch
Entries 0
Mean 0
RMS 0
h_emf_wo_+trackmatch
Entries 0
Mean 0
RMS 0
0.8
0.85
0.9
0.95
1
1.05
1.1
1.15
1.2

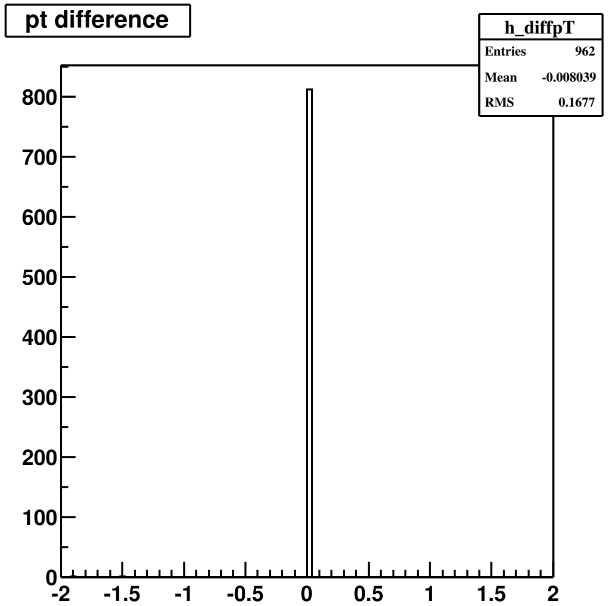

h_hmx_w_cluster
h_hmx_w_cluster
h_hmx_wo_cluster
Entries 7994
Mean 11.3
RMS 15.29
Entries 7994
Mean 11.3
RMS 15.29
0
200
400
600
800
1000
1200
1400
1600
0 20 40 60 80 100 120 140 160 180 200

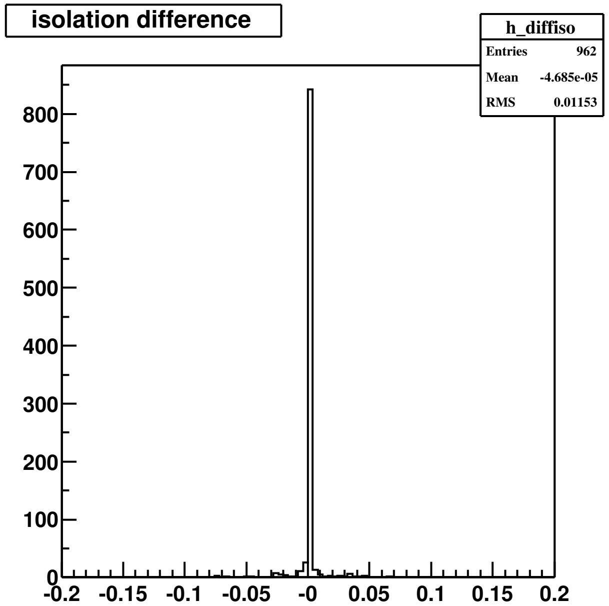

h_hmx_w_EMid
h_hmx_w_EMid
h_hmx_wo_EMid
Entries 6753
Mean 6.446
RMS 4.611
Entries 6753
Mean 6.446
RMS 4.611
0
200
400
600
800
1000
1200
1400
1600
0 20 40 60 80 100 120 140 160 180 200

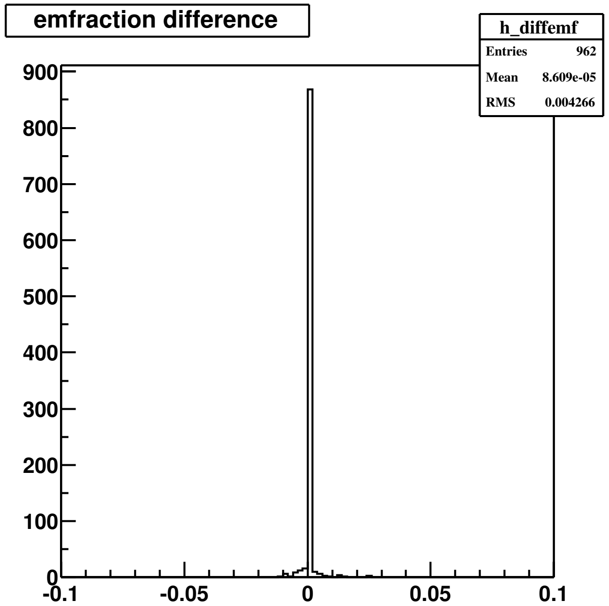

h_hmx_w_+trackmatch
h_hmx_w_+trackmatch
h_hmx_wo_+trackmatch
Entries 0
Mean 0
RMS 0
Entries 0
Mean 0
RMS 0
-1
-0.5
0
0.5
1
0 20 40 60 80 100 120 140 160 180 200

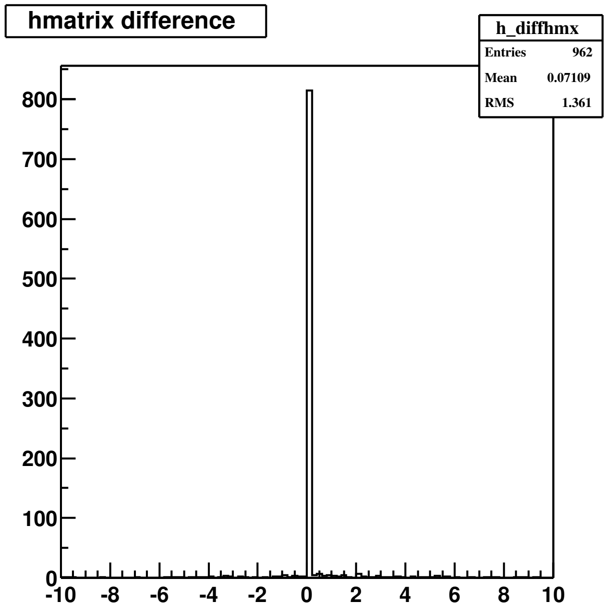


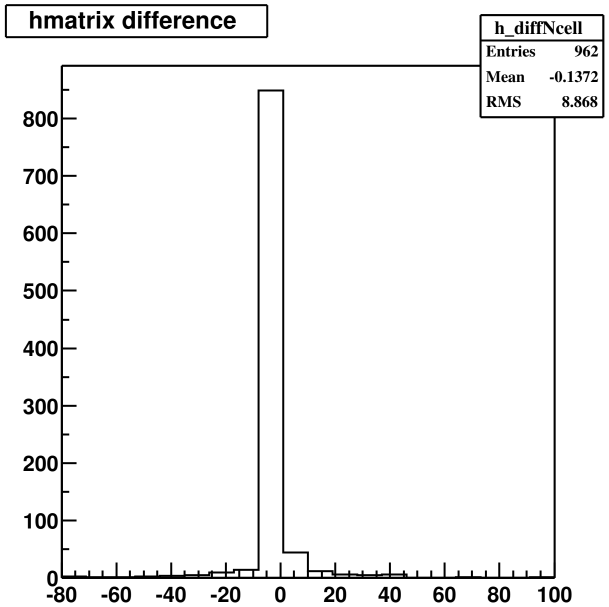
Ncell_w_cluster
Ncell_w_cluster
Entries 7994
Mean 42.96
RMS 28.1
Ncell_wo_cluster
Entries 7994
Mean 42.96
RMS 28.1
Ncell_w_EMid
Ncell_w_EMid
Entries 6753
Mean 40.49
RMS 26.44
Ncell_wo_EMid
Entries 6753
Mean 40.49
RMS 26.44
Ncell_w_+trackmatch
Ncell_w_+trackmatch
Entries 0
Mean 0
RMS 0
Ncell_wo_+trackmatch
Entries 0
Mean 0
RMS 0
0 20 40 60 80 100
0 100 200 300 400 500 600 700 800 900
-1 -0.5 0 0.5 1

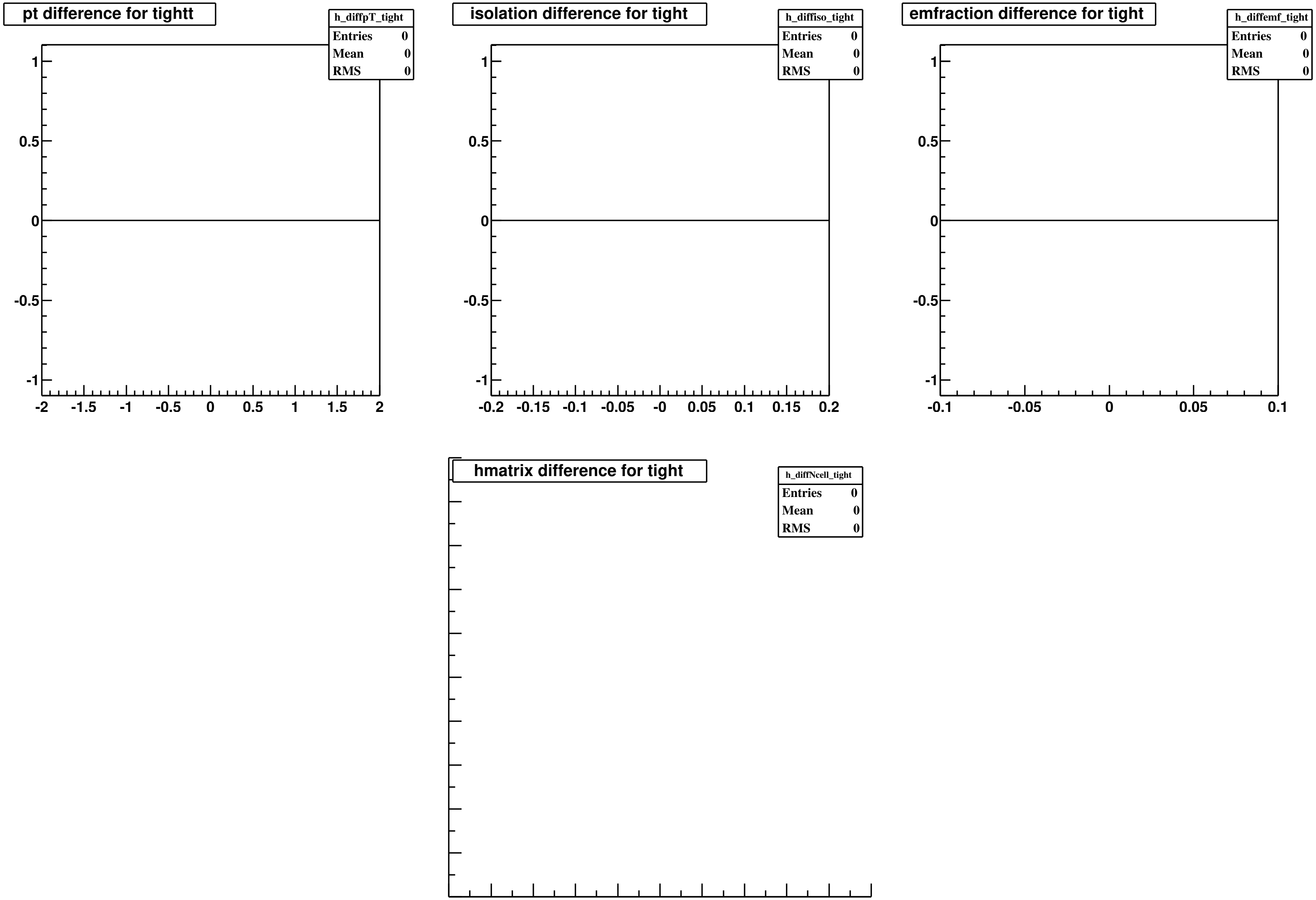

pt difference
h_diffpT
Entries 962
Mean -0.008039
RMS 0.1677

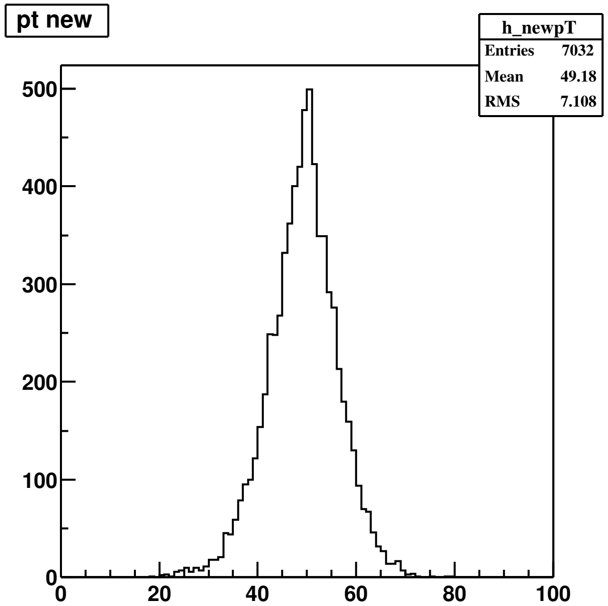

isolation difference
h_diffiso
Entries 962
Mean -4.685e-05
RMS 0.01153

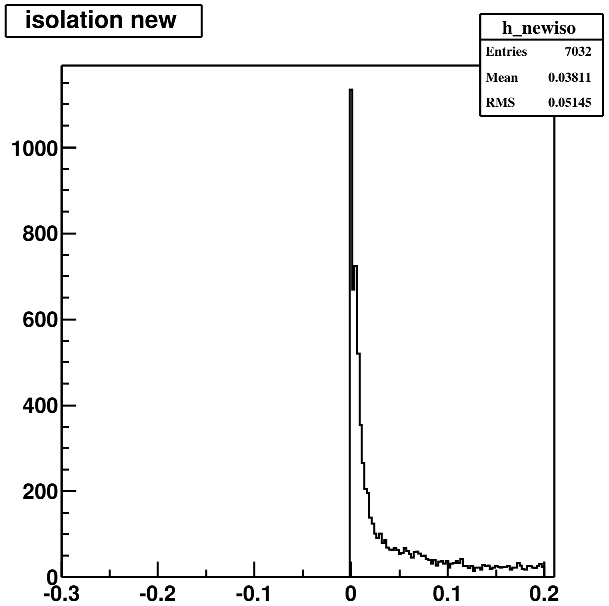

emfraction difference
h_diffemf
Entries 962
Mean 8.609e-05
RMS 0.004266

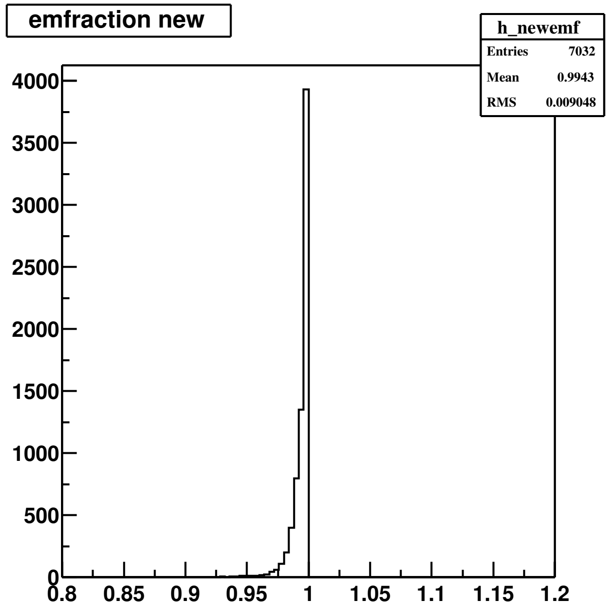

hmatrix difference
h_diffhmx
Entries 962
Mean 0.07109
RMS 1.361

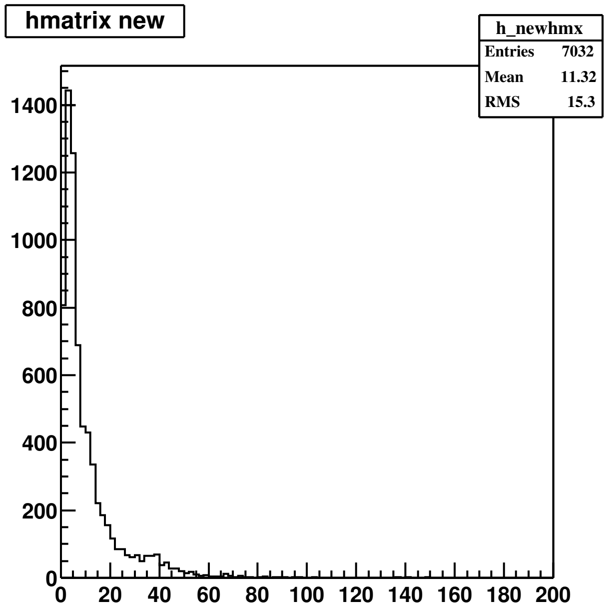

hmatrix difference
h_diffNcell
Entries 962
Mean -0.1372
RMS 8.868

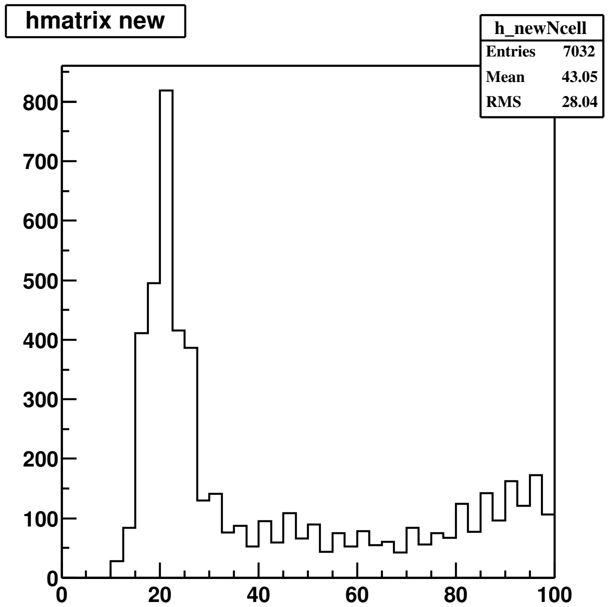

pt difference for tightt
h_diffpT_tight
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
isolation difference for tight
h_diffiso_tight
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
-0.2 -0.15 -0.1 -0.05 -0 0.05 0.1 0.15 0.2
emfraction difference for tight
h_diffemf_tight
Entries 0
Mean 0
RMS 0
1
0.5
0
-0.5
-1
-0.1 -0.05 0 0.05 0.1
hmatrix difference for tight
h_diffNcell_tight
Entries 0
Mean 0
RMS 0

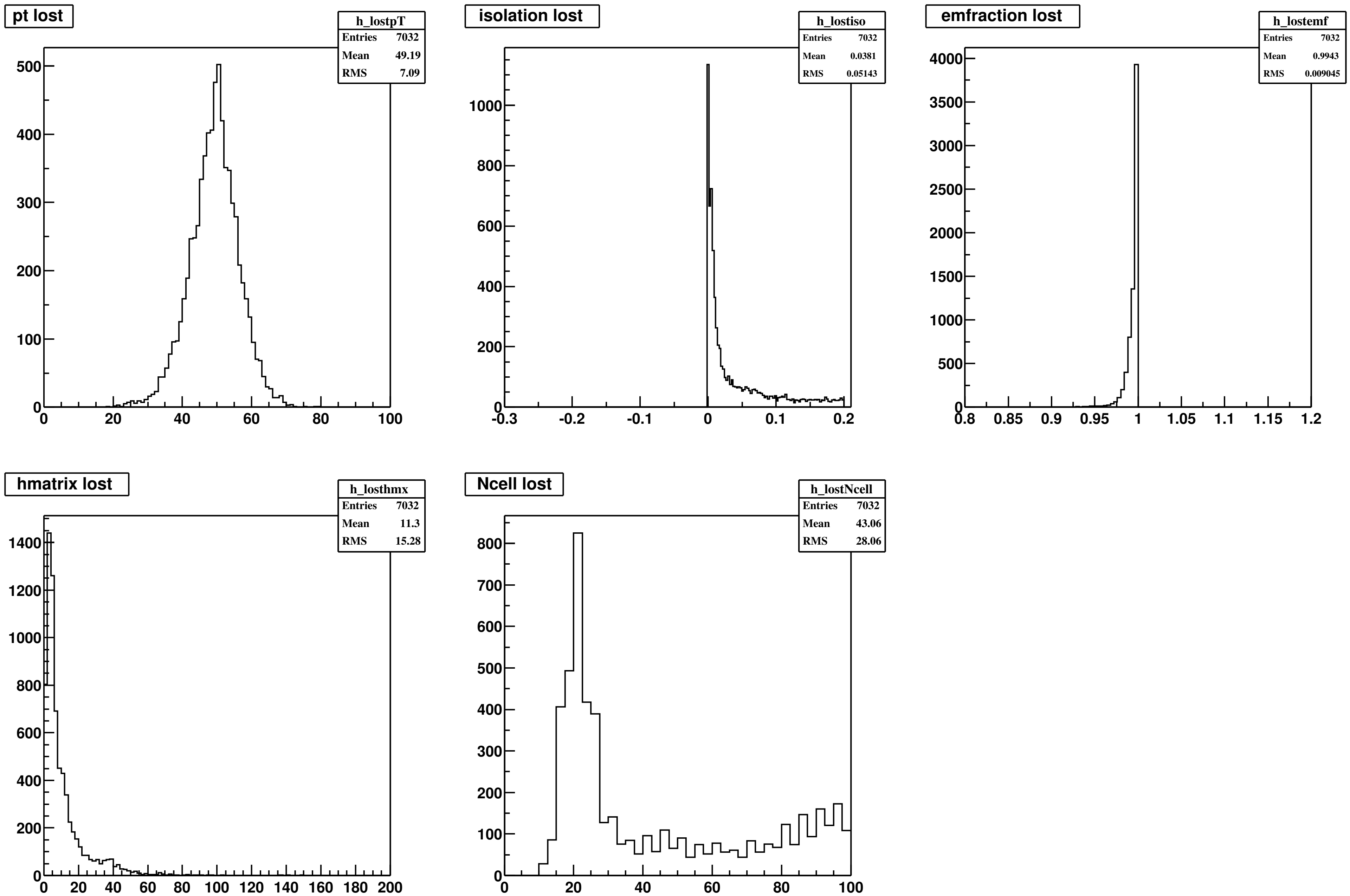

pt new
h_newpT
Entries 7032
Mean 49.18
RMS 7.108


isolation new
h_newiso
Entries 7032
Mean 0.03811
RMS 0.05145


emfraction new
h_newemf
Entries 7032
Mean 0.9943
RMS 0.009048


hmatrix new
h_newhmx
Entries 7032
Mean 11.32
RMS 15.3


hmatrix new
h_newNcell
Entries 7032
Mean 43.05
RMS 28.04


pt lost
h_lostpT
Entries 7032
Mean 49.19
RMS 7.09
isolation lost
h_lostiso
Entries 7032
Mean 0.0381
RMS 0.05143
emfraction lost
h_lostemf
Entries 7032
Mean 0.9943
RMS 0.009045
hmatrix lost
h_losthmx
Entries 7032
Mean 11.3
RMS 15.28
Ncell lost
h_lostNcell
Entries 7032
Mean 43.06
RMS 28.06