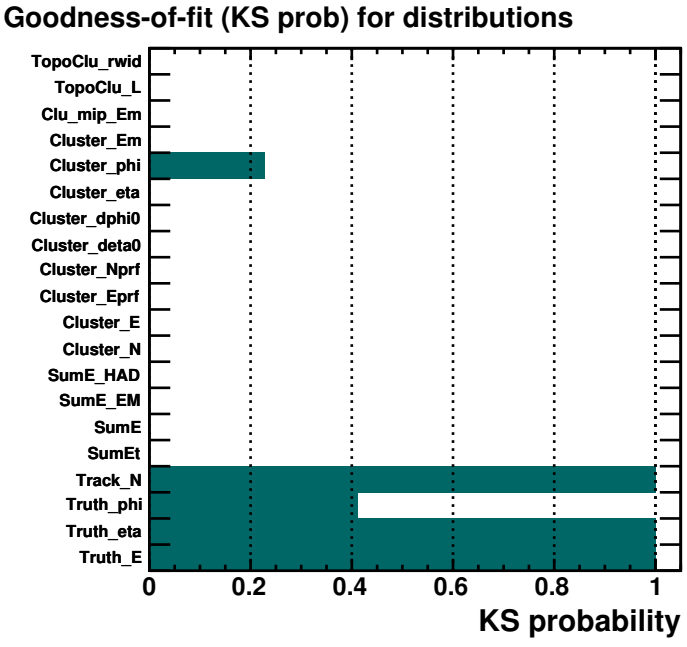
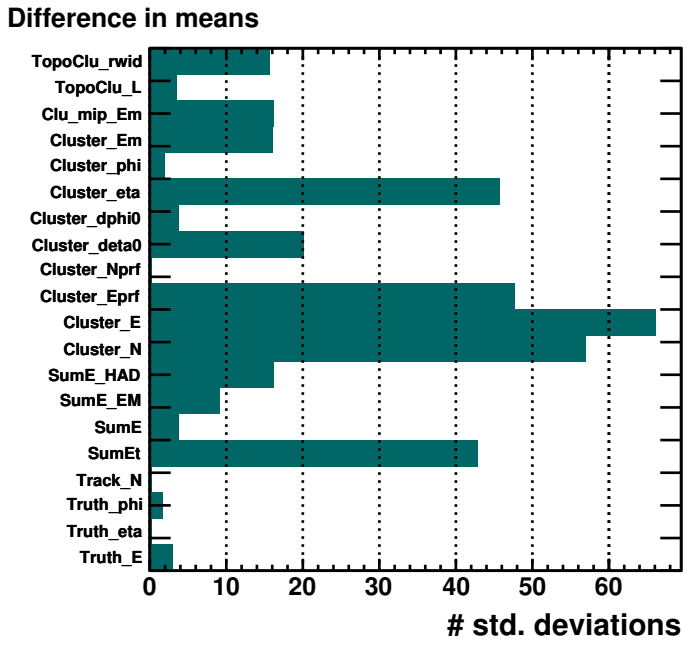
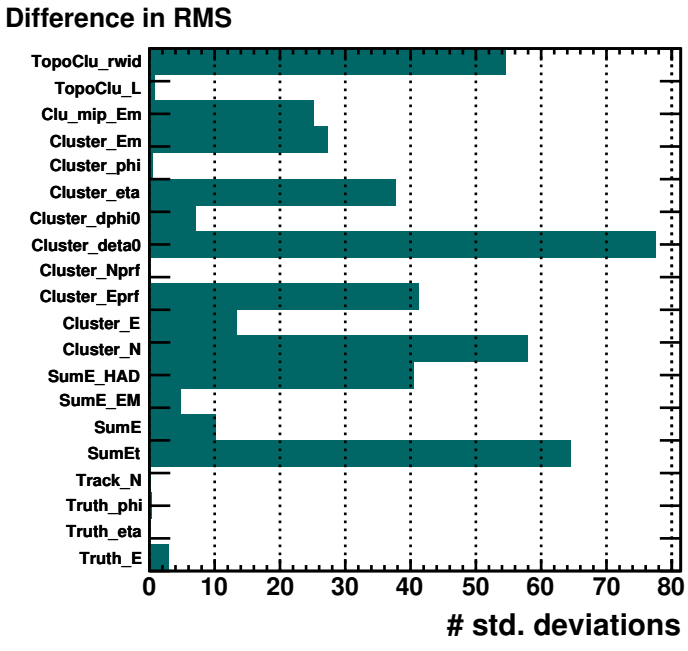
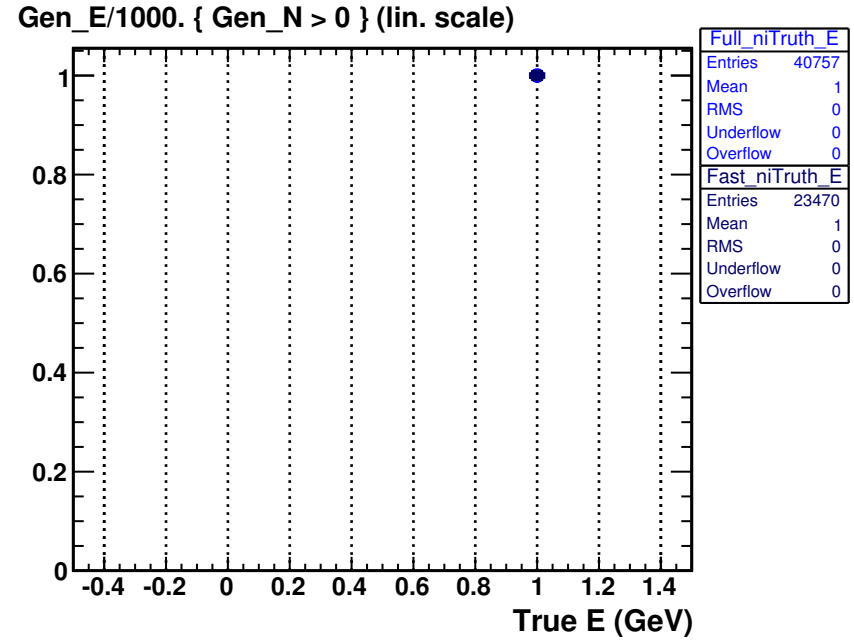
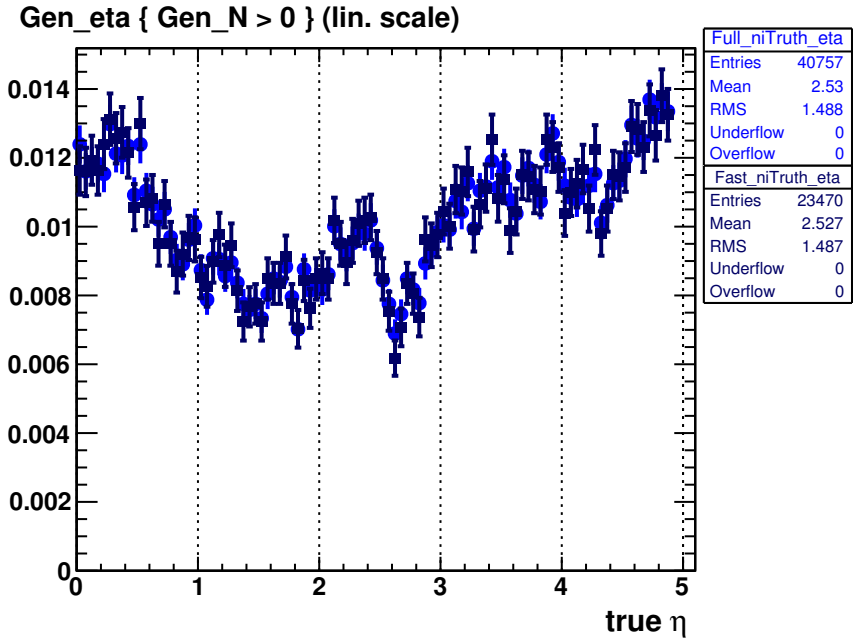
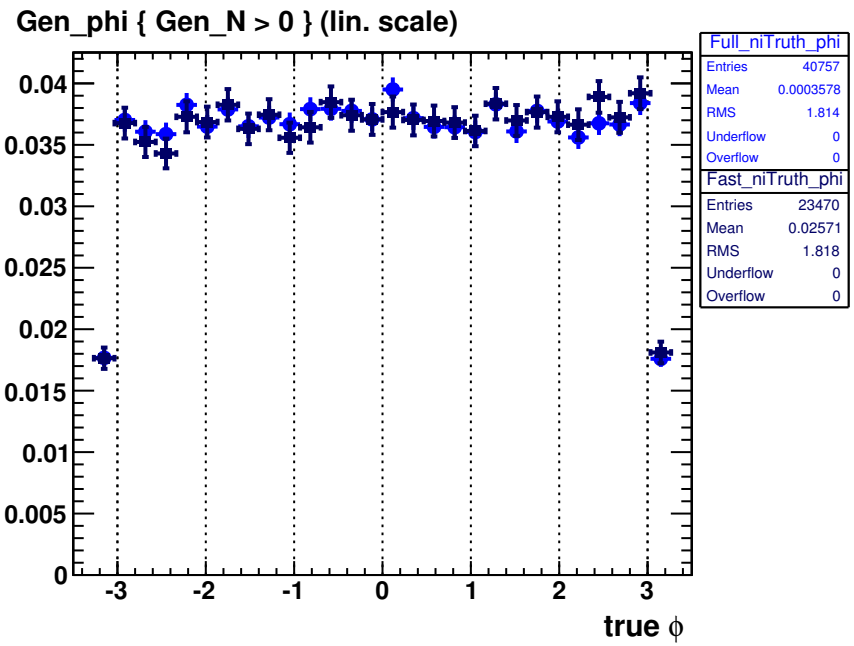

Goodness-of-fit (KS prob) for distributions
TopoClu_rwid
TopoClu_L
Clu_mip_Em
Cluster_Em
Cluster_phi
Cluster_eta
Cluster_dphi0
Cluster_deta0
Cluster_Nprf
Cluster_Eprf
Cluster_E
Cluster_N
SumE_HAD
SumE_EM
SumE
SumEt
Track_N
Truth_phi
Truth_eta
Truth_E
0
0.2
0.4
0.6
0.8
1
KS probability

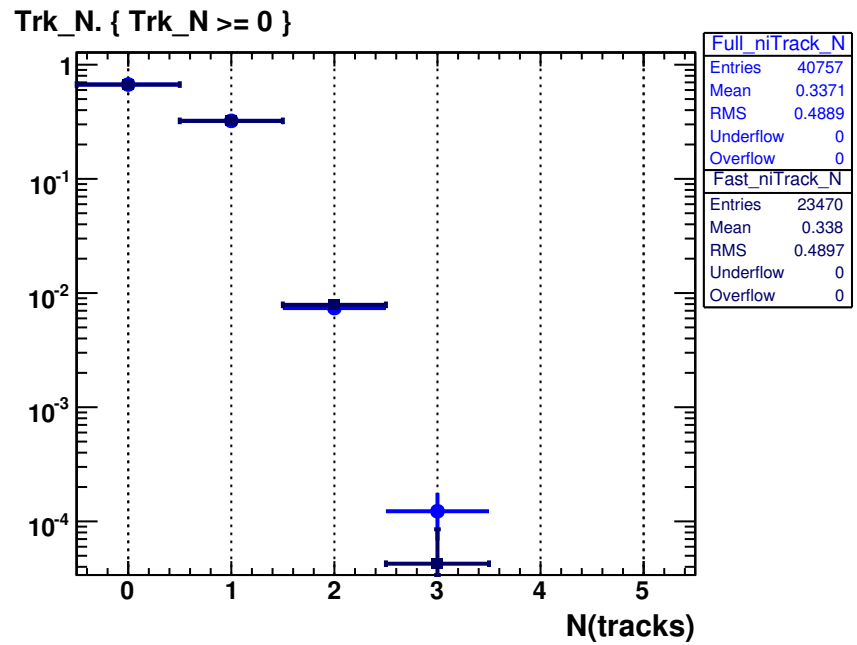

Difference in means
TopoClu_rwid
TopoClu_L
Clu_mip_Em
Cluster_Em
Cluster_phi
Cluster_eta
Cluster_dphi0
Cluster_deta0
Cluster_Nprf
Cluster_Eprf
Cluster_E
Cluster_N
SumE_HAD
SumE_EM
SumE
SumEt
Track_N
Truth_phi
Truth_eta
Truth_E
0
10
20
30
40
50
60
std. deviations

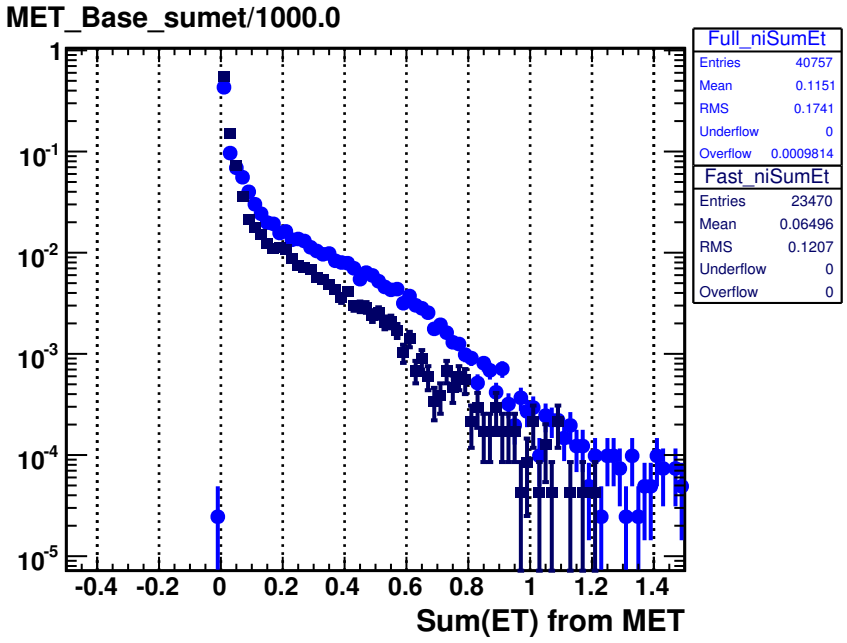

Difference in RMS
TopoClu_rwid
TopoClu_L
Clu_mip_Em
Cluster_Em
Cluster_phi
Cluster_eta
Cluster_dphi0
Cluster_deta0
Cluster_Nprf
Cluster_Eprf
Cluster_E
Cluster_N
SumE_HAD
SumE_EM
SumE
SumEt
Track_N
Truth_phi
Truth_eta
Truth_E
0
10
20
30
40
50
60
70
80
std. deviations

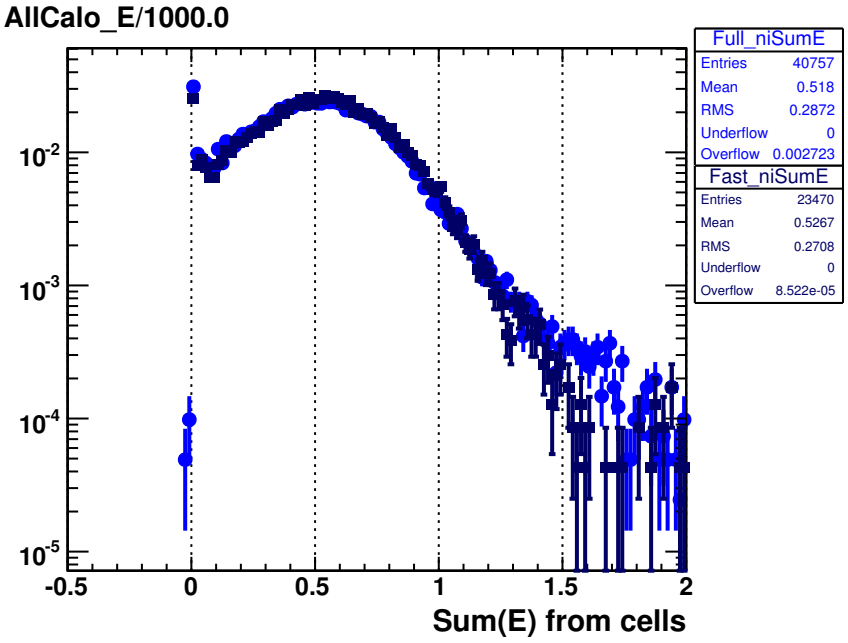

Gen_E/1000. { Gen_N > 0 } (lin. scale)
Full_niTruth_E
Entries 40757
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_niTruth_E
Entries 23470
Mean 1
RMS 0
Underflow 0
Overflow 0
True E (GeV)

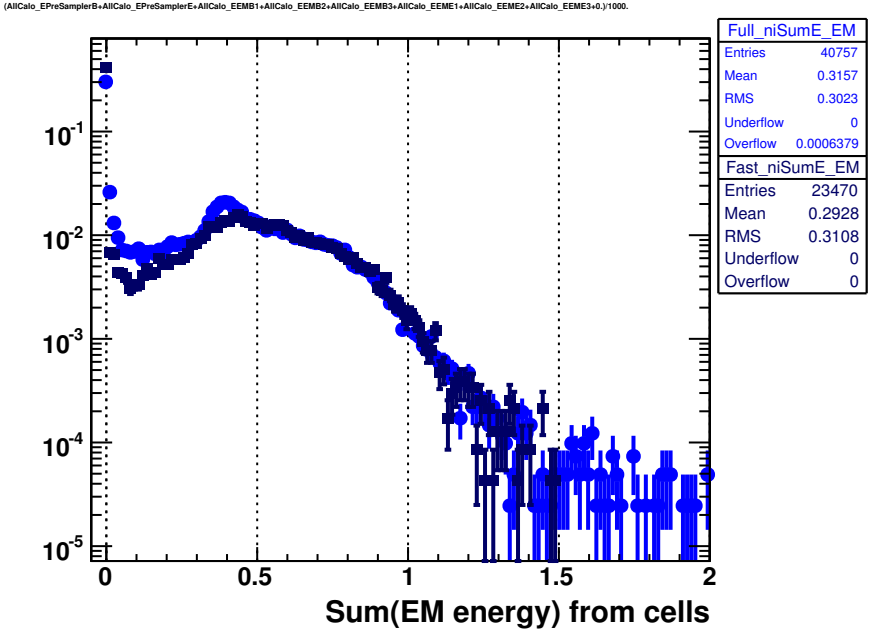

Gen_eta { Gen_N > 0 } (lin. scale)
Full_niTruth_eta
Entries 40757
Mean 2.53
RMS 1.488
Underflow 0
Overflow 0
Fast_niTruth_eta
Entries 23470
Mean 2.527
RMS 1.487
Underflow 0
Overflow 0
true η

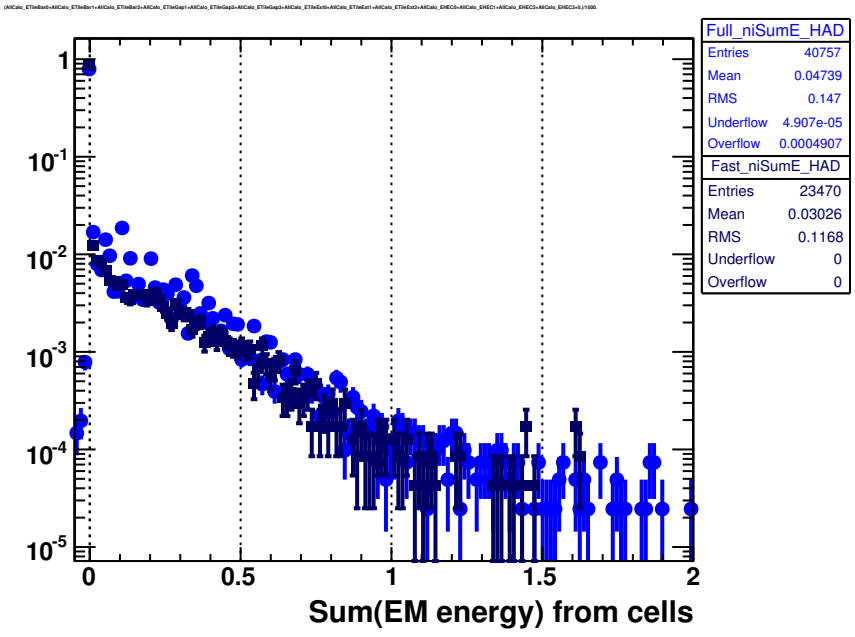

Gen_phi { Gen_N > 0 } (lin. scale)
Full_niTruth_phi
Entries 40757
Mean 0.0003578
RMS 1.814
Underflow 0
Overflow 0
Fast_niTruth_phi
Entries 23470
Mean 0.02571
RMS 1.818
Underflow 0
Overflow 0
true ϕ

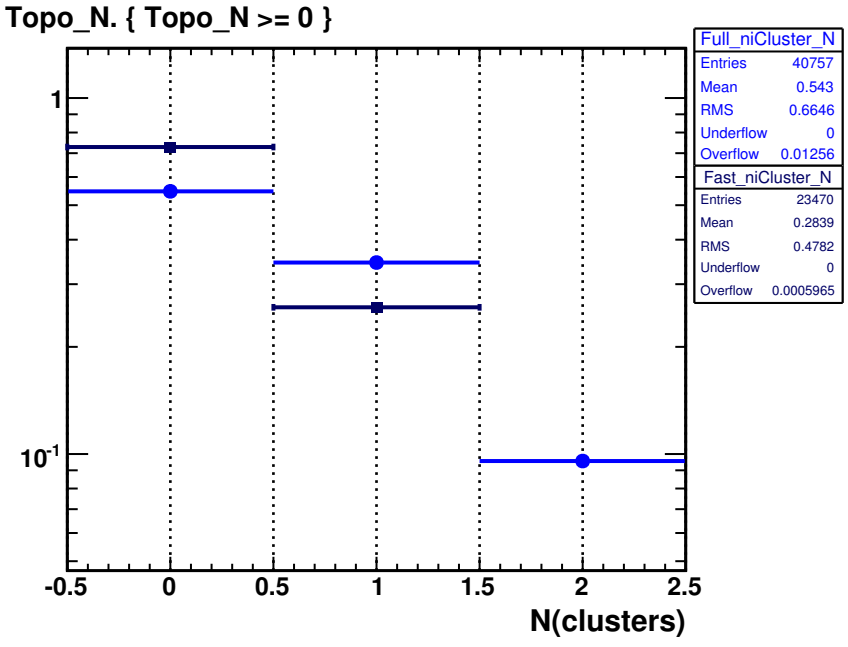

Trk_N. { Trk_N >= 0 }
Full_niTrack_N
Entries 40757
Mean 0.3371
RMS 0.4889
Underflow 0
Overflow 0
Fast_niTrack_N
Entries 23470
Mean 0.338
RMS 0.4897
Underflow 0
Overflow 0
N(tracks)

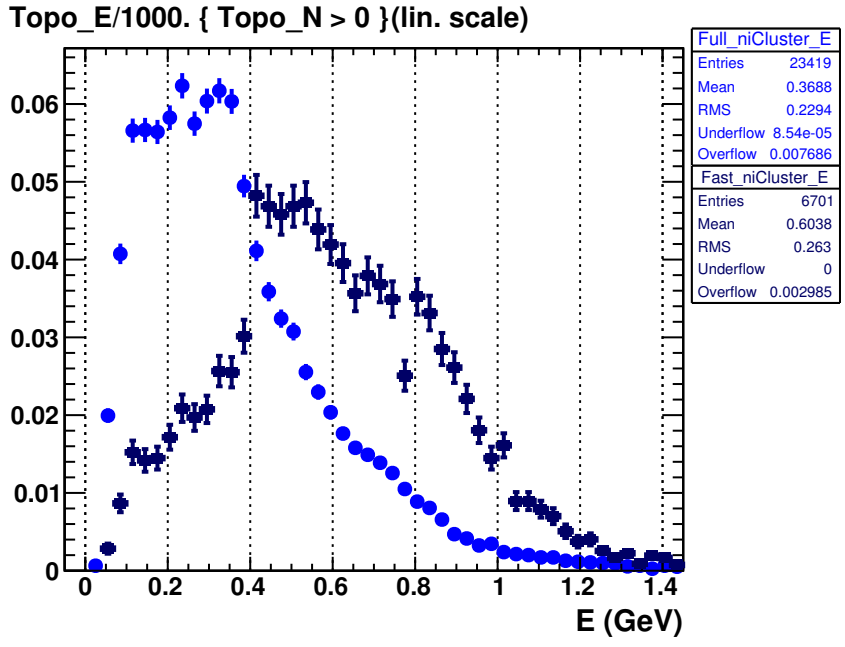

MET_Base_sumet/1000.0
Full_niSumEt
Entries 40757
Mean 0.1151
RMS 0.1741
Underflow 0
Overflow 0.0009814
Fast_niSumEt
Entries 23470
Mean 0.06496
RMS 0.1207
Underflow 0
Overflow 0
Sum(ET) from MET

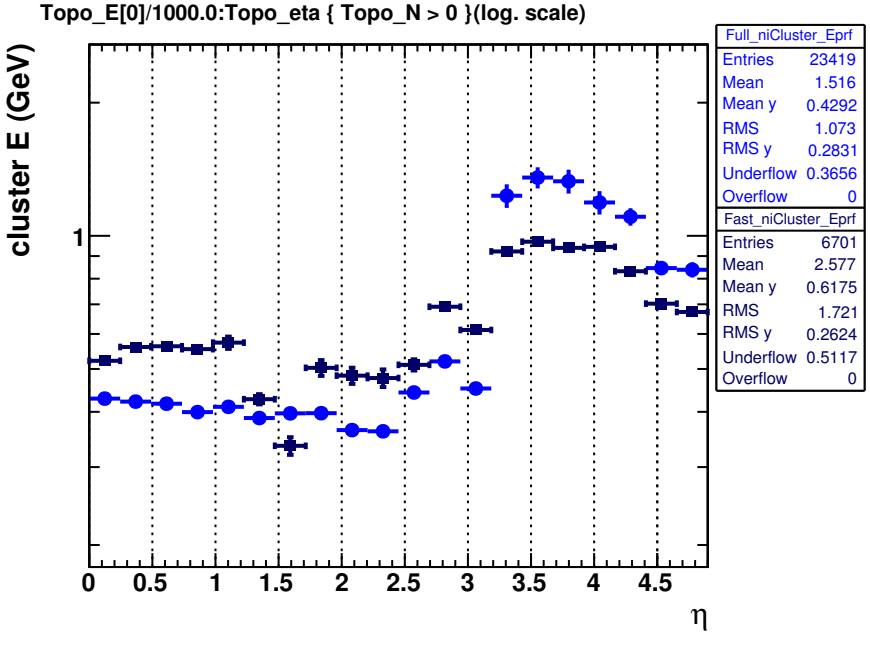

AllCalo_E/1000.0
Full_niSumE
Entries 40757
Mean 0.518
RMS 0.2872
Underflow 0
Overflow 0.002723
Fast_niSumE
Entries 23470
Mean 0.5267
RMS 0.2708
Underflow 0
Overflow 8.522e-05
Sum(E) from cells

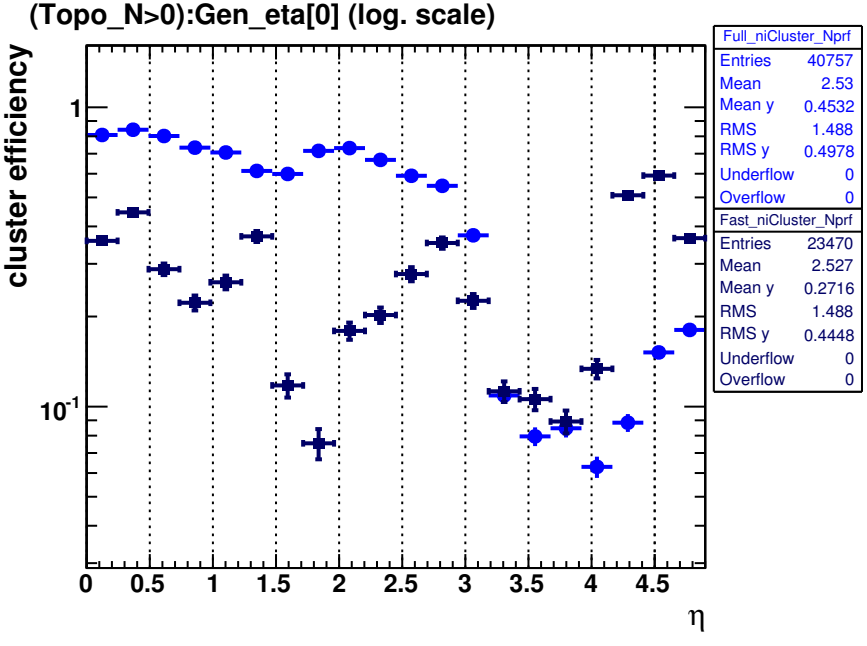

(AllCalo_EPreSamplerB+AllCalo_EPreSamplerE+AllCalo_EEMB1+AllCalo_EEMB2+AllCalo_EEMB3+AllCalo_EEME1+AllCalo_EEME2+AllCalo_EEME3+0.)/1000.
Full_niSumE_EM
Entries 40757
Mean 0.3157
RMS 0.3023
Underflow 0
Overflow 0.0006379
Fast_niSumE_EM
Entries 23470
Mean 0.2928
RMS 0.3108
Underflow 0
Overflow 0
Sum(EM energy) from cells

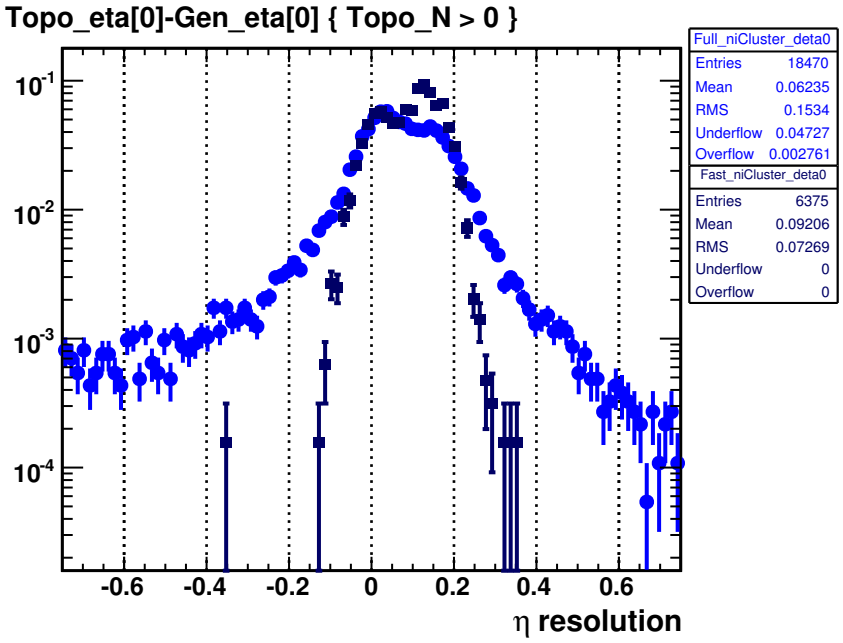

Full_niSumE_HAD
Entries 40757
Mean 0.04739
RMS 0.147
Underflow 4.907e-05
Overflow 0.0004907
Fast_niSumE_HAD
Entries 23470
Mean 0.03026
RMS 0.1168
Underflow 0
Overflow 0
Sum(EM energy) from cells

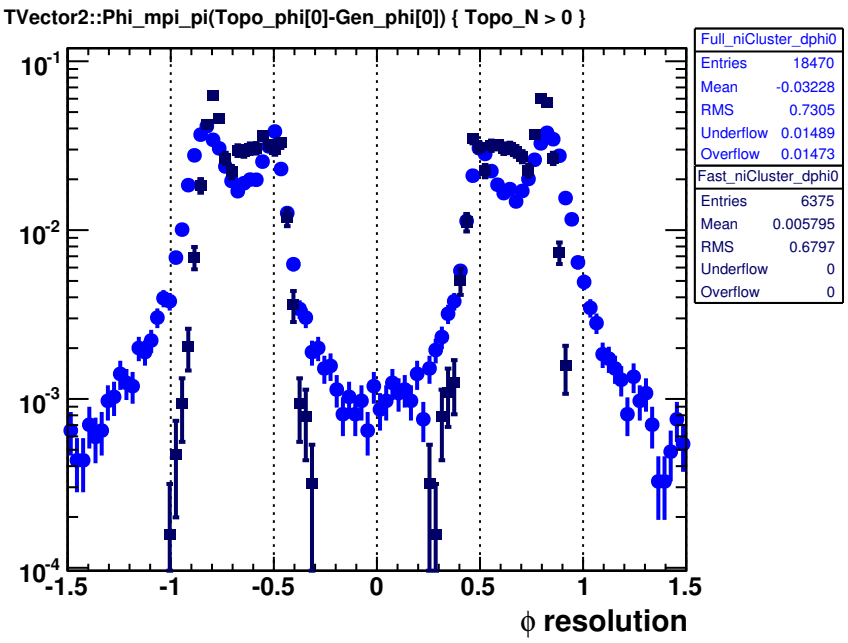

Topo_N. { Topo_N >= 0 }
Full_niCluster_N
Entries 40757
Mean 0.543
RMS 0.6646
Underflow 0
Overflow 0.01256
Fast_niCluster_N
Entries 23470
Mean 0.2839
RMS 0.4782
Underflow 0
Overflow 0.0005965
N(clusters)

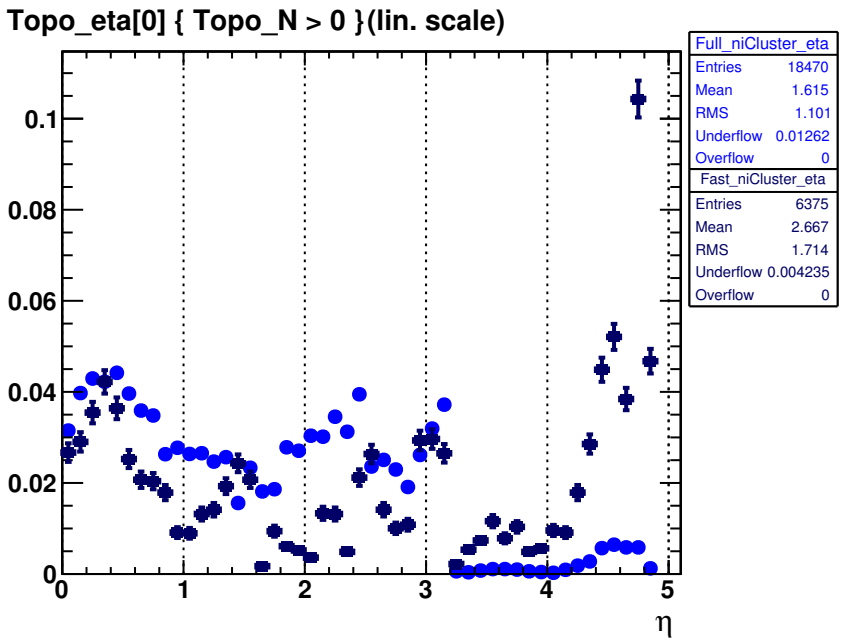

Topo_E/1000. { Topo_N > 0 }(lin. scale)
Full_niCluster_E
Entries 23419
Mean 0.3688
RMS 0.2294
Underflow 8.54e-05
Overflow 0.007686
Fast_niCluster_E
Entries 6701
Mean 0.6038
RMS 0.263
Underflow 0
Overflow 0.002985
E (GeV)

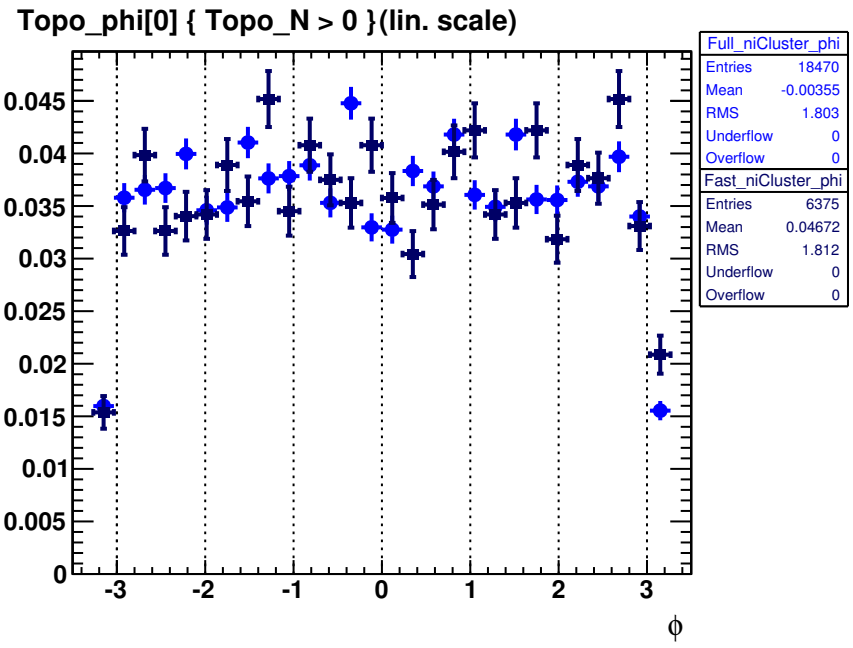

Topo_E[0]/1000.0:Topo_eta { Topo_N > 0 }(log. scale)
Full_niCluster_Eprf
Entries 23419
Mean 1.516
Mean y 0.4292
RMS 1.073
RMS y 0.2831
Underflow 0.3656
Overflow 0
Fast_niCluster_Eprf
Entries 6701
Mean 2.577
Mean y 0.6175
RMS 1.721
RMS y 0.2624
Underflow 0.5117
Overflow 0
cluster E (GeV)
η

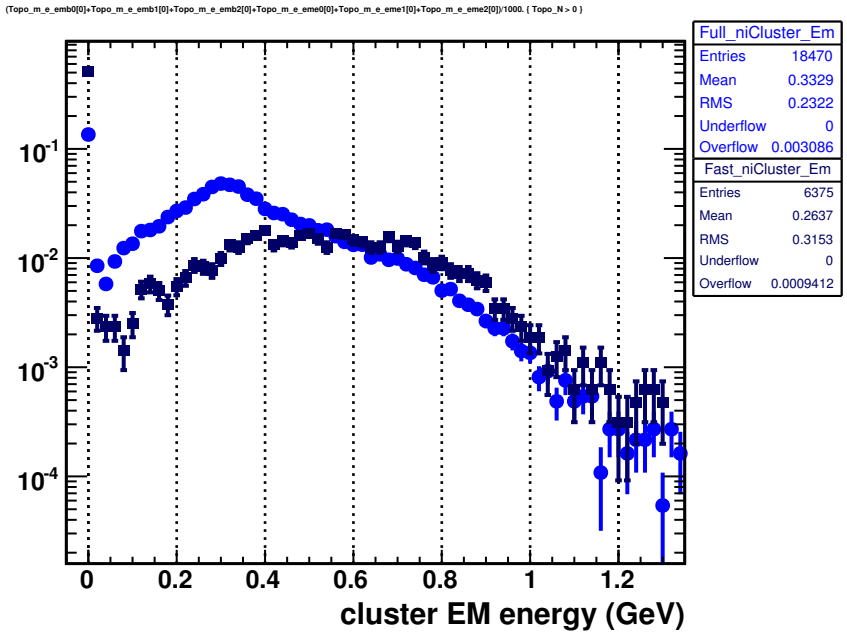

(Topo_N>0):Gen_eta[0] (log. scale)
Full_niCluster_Nprf
Entries 40757
Mean 2.53
Mean y 0.4532
RMS 1.488
RMS y 0.4978
Underflow 0
Overflow 0
Fast_niCluster_Nprf
Entries 23470
Mean 2.527
Mean y 0.2716
RMS 1.488
RMS y 0.4448
Underflow 0
Overflow 0
cluster efficiency
η

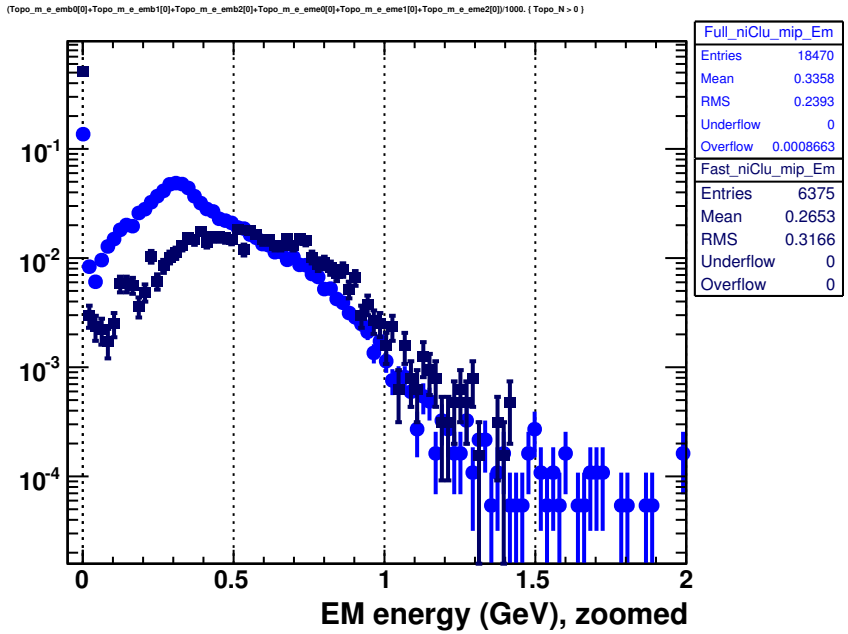

Topo_eta[0]-Gen_eta[0] { Topo_N > 0 }
Full_niCluster_deta0
Entries 18470
Mean 0.06235
RMS 0.1534
Underflow 0.04727
Overflow 0.002761
Fast_niCluster_deta0
Entries 6375
Mean 0.09206
RMS 0.07269
Underflow 0
Overflow 0
η resolution

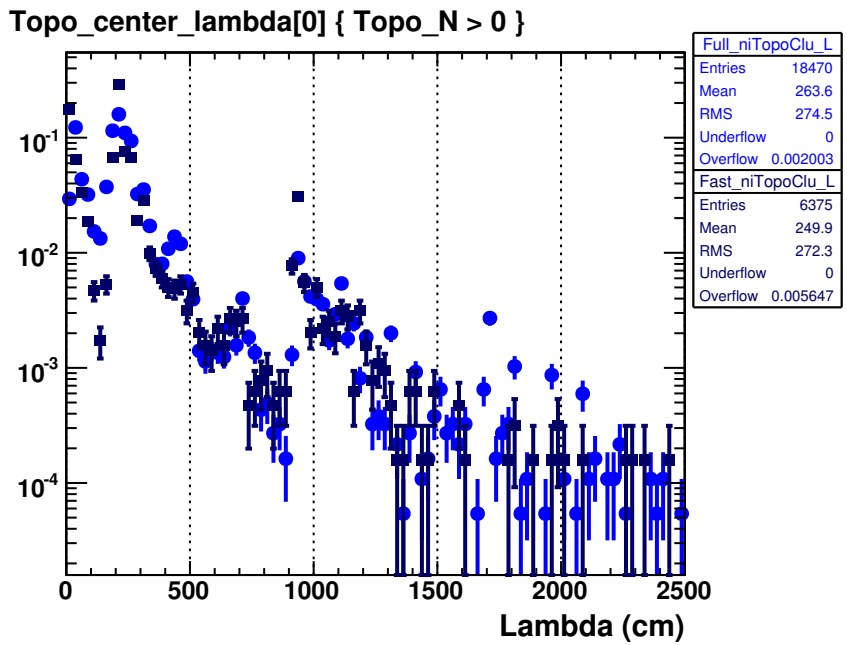

TVector2::Phi_mpi_pi(Topo_phi[0]-Gen_phi[0]) { Topo_N > 0 }
Full_niCluster_dphi0
Entries 18470
Mean -0.03228
RMS 0.7305
Underflow 0.01489
Overflow 0.01473
Fast_niCluster_dphi0
Entries 6375
Mean 0.005795
RMS 0.6797
Underflow 0
Overflow 0
ϕ resolution

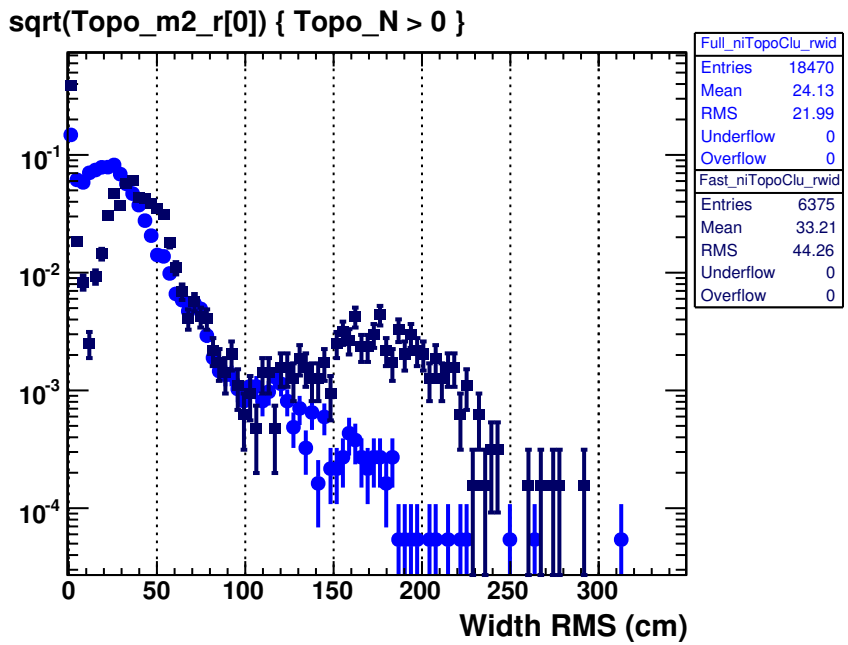

Topo_eta[0] { Topo_N > 0 }(lin. scale)
Full_niCluster_eta
Entries 18470
Mean 1.615
RMS 1.101
Underflow 0.01262
Overflow 0
Fast_niCluster_eta
Entries 6375
Mean 2.667
RMS 1.714
Underflow 0.004235
Overflow 0
η


Topo_phi[0] { Topo_N > 0 }(lin. scale)
Full_niCluster_phi
Entries 18470
Mean -0.00355
RMS 1.803
Underflow 0
Overflow 0
Fast_niCluster_phi
Entries 6375
Mean 0.04672
RMS 1.812
Underflow 0
Overflow 0
ϕ


(Topo_m_e_emb0[0]+Topo_m_e_emb1[0]+Topo_m_e_emb2[0]+Topo_m_e_eme0[0]+Topo_m_e_eme1[0]+Topo_m_e_eme2[0])/1000. { Topo_N > 0 }
Full_niCluster_Em
Entries 18470
Mean 0.3329
RMS 0.2322
Underflow 0
Overflow 0.003086
Fast_niCluster_Em
Entries 6375
Mean 0.2637
RMS 0.3153
Underflow 0
Overflow 0.0009412
cluster EM energy (GeV)


(Topo_m_e_emb0[0]+Topo_m_e_emb1[0]+Topo_m_e_emb2[0]+Topo_m_e_eme0[0]+Topo_m_e_eme1[0]+Topo_m_e_eme2[0])/1000. { Topo_N > 0 }
Full_niClu_mip_Em
Entries 18470
Mean 0.3358
RMS 0.2393
Underflow 0
Overflow 0.0008663
Fast_niClu_mip_Em
Entries 6375
Mean 0.2653
RMS 0.3166
Underflow 0
Overflow 0
EM energy (GeV), zoomed


Topo_center_lambda[0] { Topo_N > 0 }
Full_niTopoClu_L
Entries 18470
Mean 263.6
RMS 274.5
Underflow 0
Overflow 0.002003
Fast_niTopoClu_L
Entries 6375
Mean 249.9
RMS 272.3
Underflow 0
Overflow 0.005647
Lambda (cm)


sqrt(Topo_m2_r[0]) { Topo_N > 0 }
Full_niTopoClu_rwid
Entries 18470
Mean 24.13
RMS 21.99
Underflow 0
Overflow 0
Fast_niTopoClu_rwid
Entries 6375
Mean 33.21
RMS 44.26
Underflow 0
Overflow 0
Width RMS (cm)