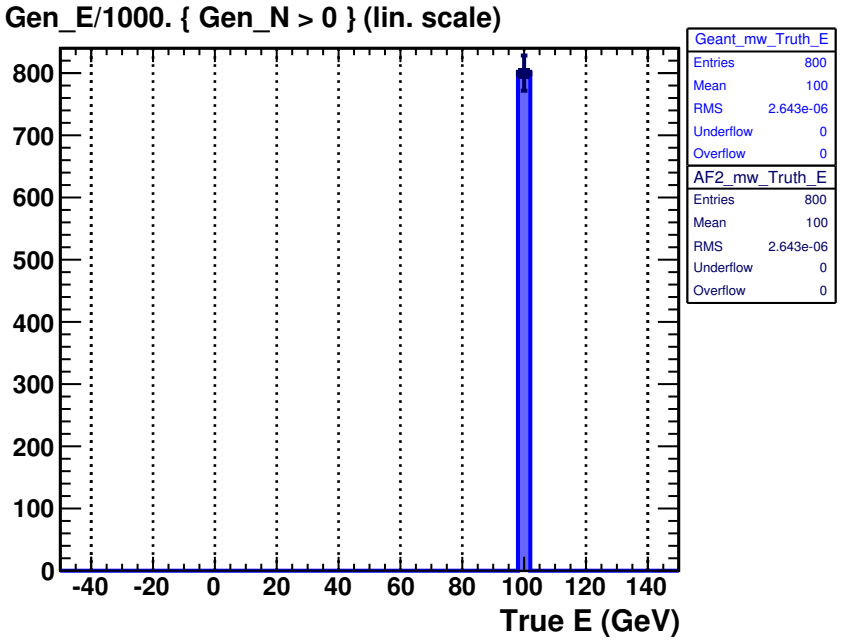
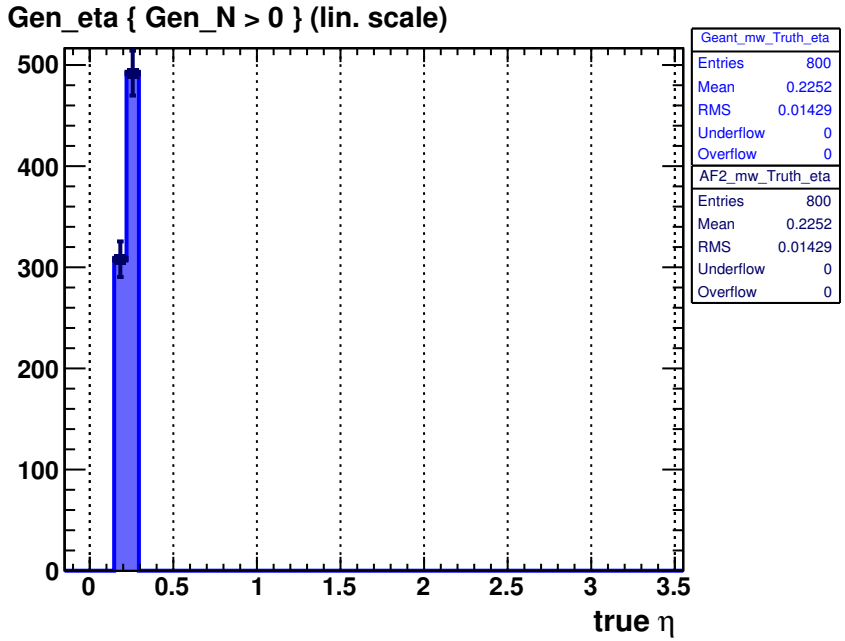
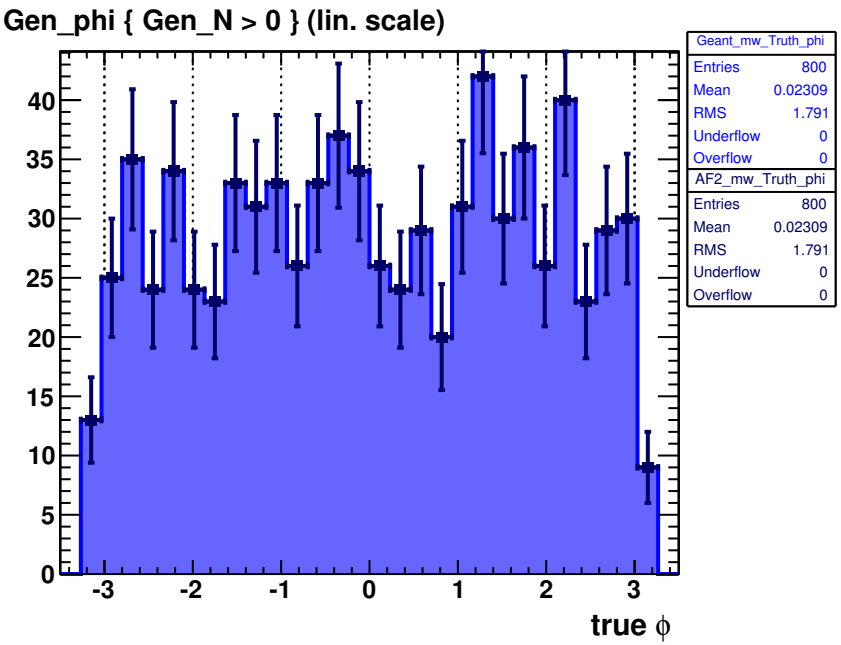
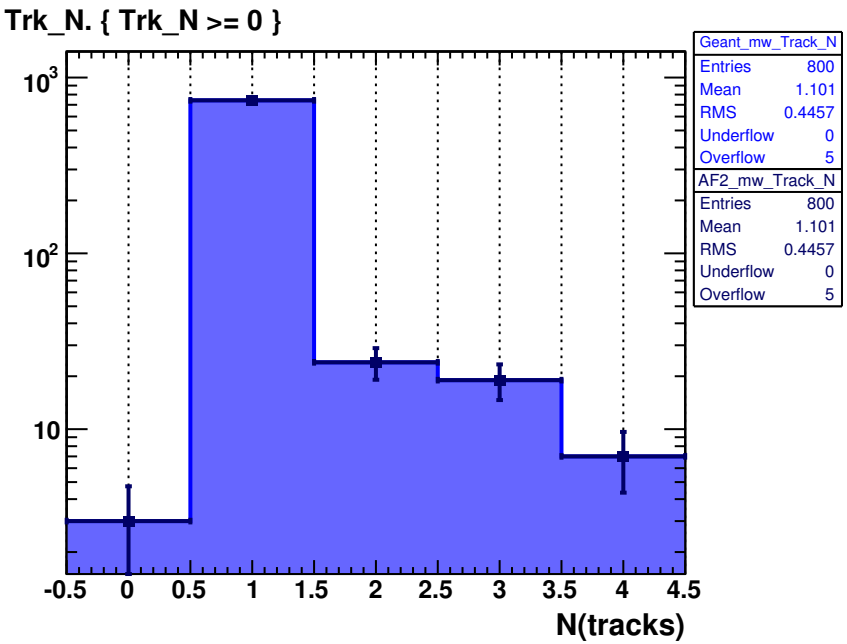
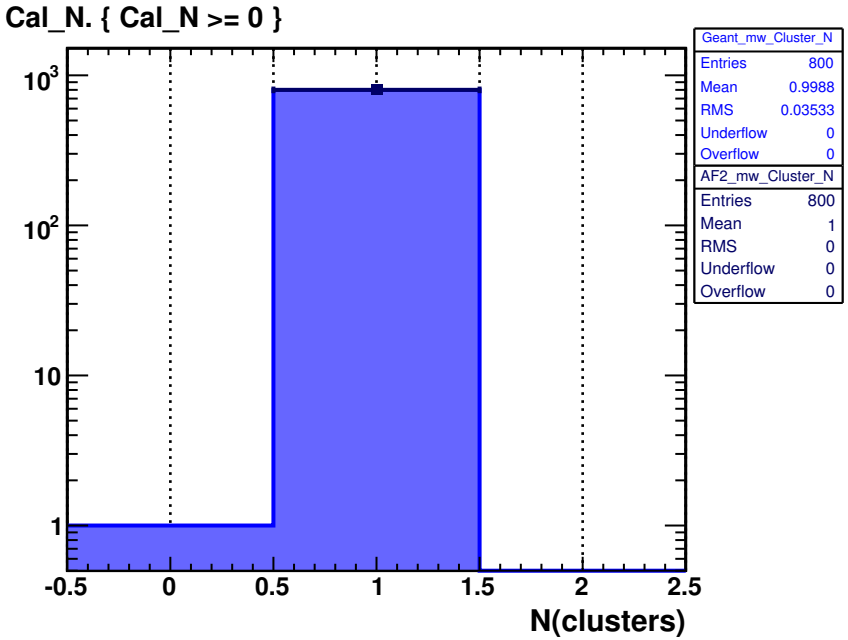
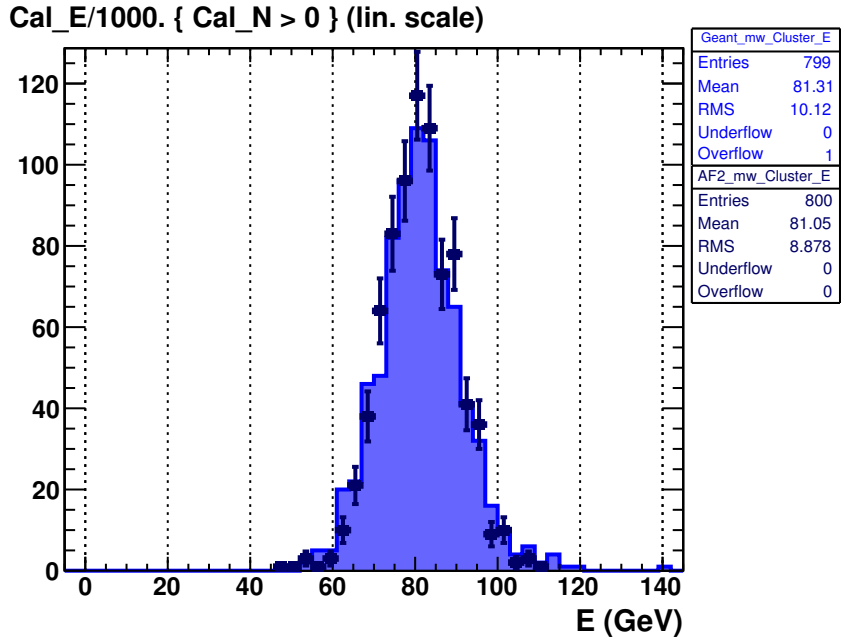

Gen_E/1000. { Gen_N > 0 } (lin. scale)
Geant_mw_Truth_E
Entries 800
Mean 100
RMS 2.643e-06
Underflow 0
Overflow 0
AF2_mw_Truth_E
Entries 800
Mean 100
RMS 2.643e-06
Underflow 0
Overflow 0
True E (GeV)

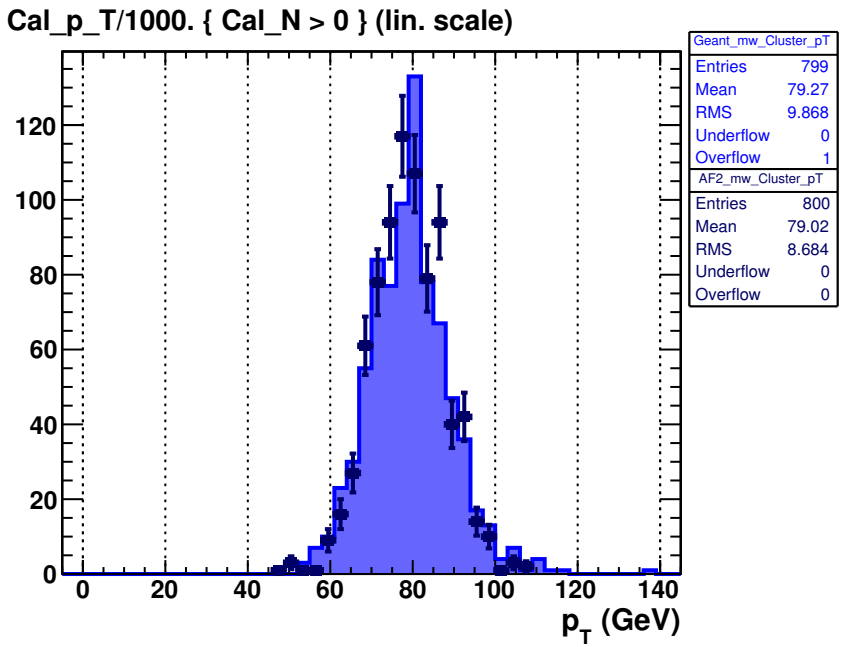

Gen_eta { Gen_N > 0 } (lin. scale)
Geant_mw_Truth_eta
Entries 800
Mean 0.2252
RMS 0.01429
Underflow 0
Overflow 0
AF2_mw_Truth_eta
Entries 800
Mean 0.2252
RMS 0.01429
Underflow 0
Overflow 0
true η

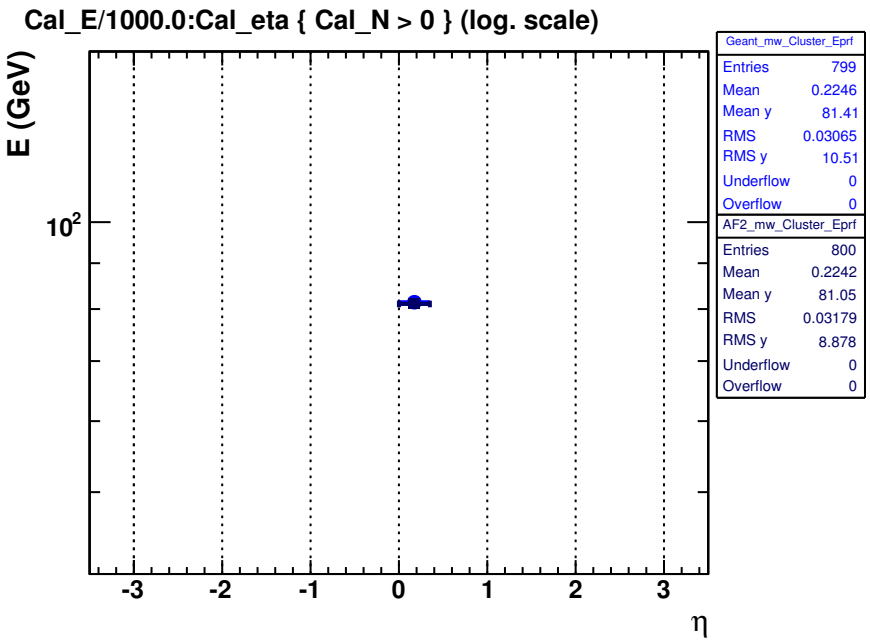

Gen_phi { Gen_N > 0 } (lin. scale)
Geant_mw_Truth_phi
Entries 800
Mean 0.02309
RMS 1.791
Underflow 0
Overflow 0
AF2_mw_Truth_phi
Entries 800
Mean 0.02309
RMS 1.791
Underflow 0
Overflow 0
true ϕ

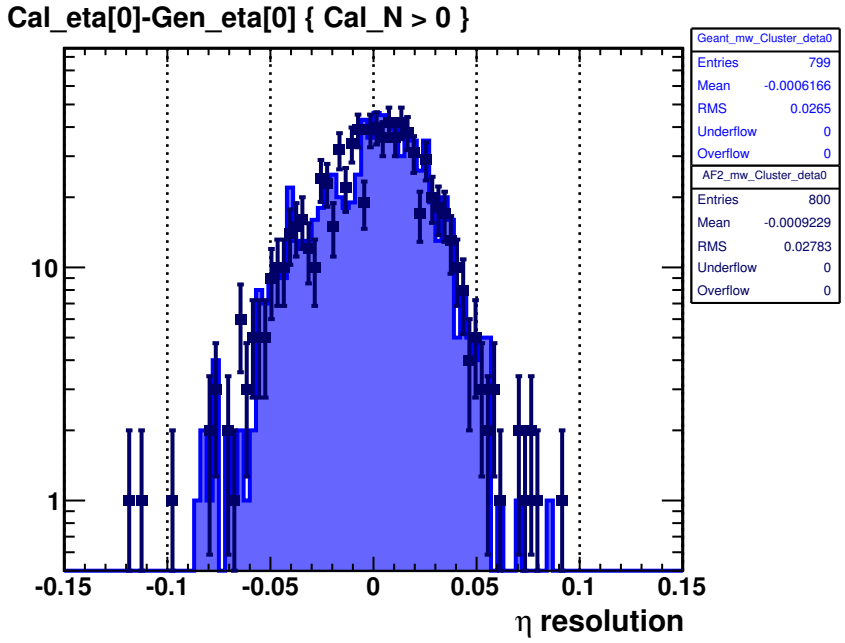

Trk_N. { Trk_N >= 0 }
Geant_mw_Track_N
Entries 800
Mean 1.101
RMS 0.4457
Underflow 0
Overflow 5
AF2_mw_Track_N
Entries 800
Mean 1.101
RMS 0.4457
Underflow 0
Overflow 5
N(tracks)

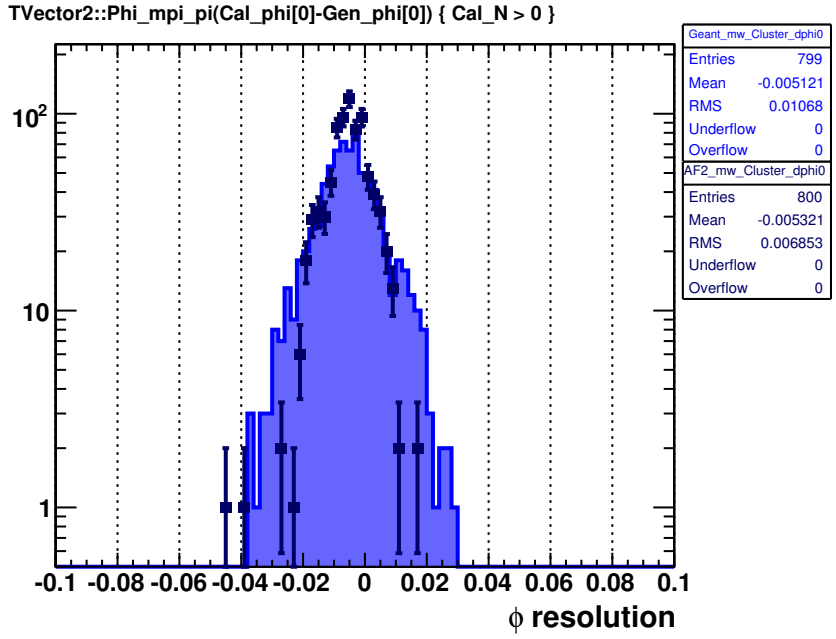

Cal_N. { Cal_N >= 0 }
Geant_mw_Cluster_N
Entries 800
Mean 0.9988
RMS 0.03533
Underflow 0
Overflow 0
AF2_mw_Cluster_N
Entries 800
Mean 1
RMS 0
Underflow 0
Overflow 0
N(clusters)

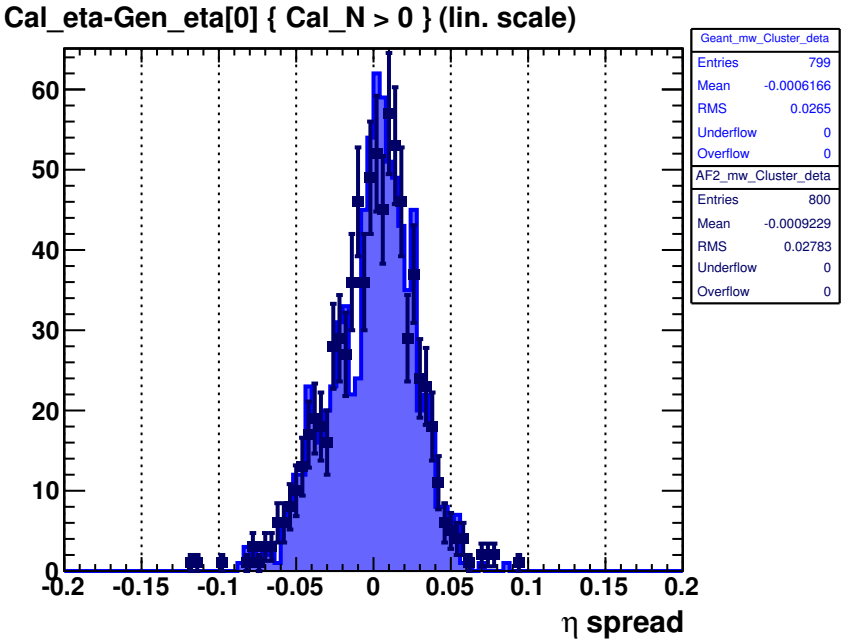

Cal_E/1000. { Cal_N > 0 } (lin. scale)
Geant_mw_Cluster_E
Entries 799
Mean 81.31
RMS 10.12
Underflow 0
Overflow 1
AF2_mw_Cluster_E
Entries 800
Mean 81.05
RMS 8.878
Underflow 0
Overflow 0
E (GeV)

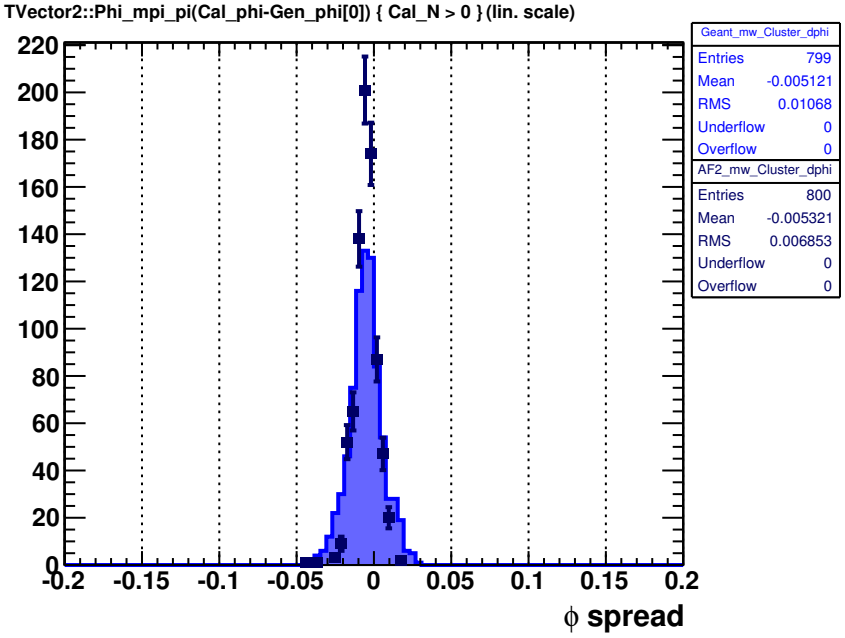

Cal_p_T/1000. { Cal_N > 0 } (lin. scale)
Geant_mw_Cluster_pT
Entries 799
Mean 79.27
RMS 9.868
Underflow 0
Overflow 1
AF2_mw_Cluster_pT
Entries 800
Mean 79.02
RMS 8.684
Underflow 0
Overflow 0
p_T (GeV)

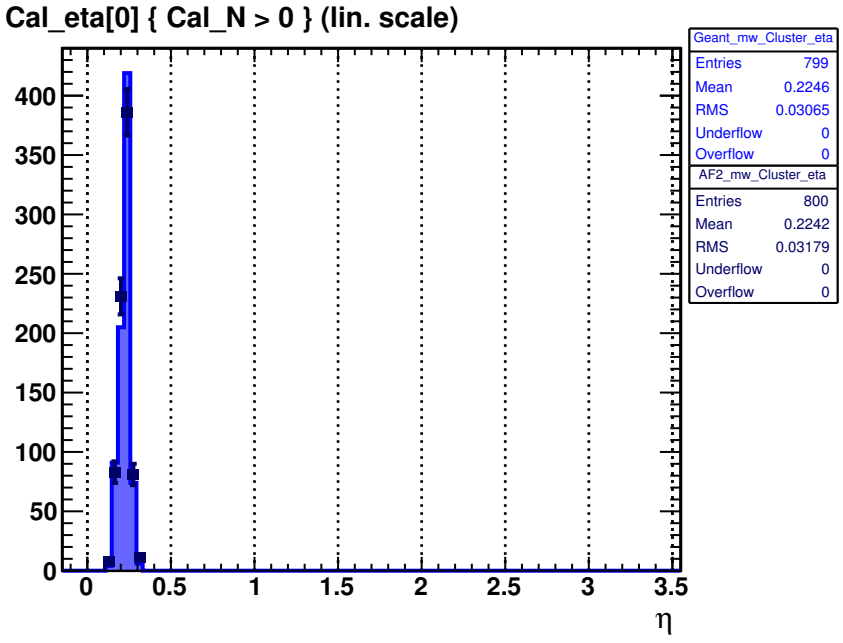

Cal_E/1000.0:Cal_eta { Cal_N > 0 } (log. scale)
Geant_mw_Cluster_Eprf
Entries 799
Mean 0.2246
Mean y 81.41
RMS 0.03065
RMS y 10.51
Underflow 0
Overflow 0
AF2_mw_Cluster_Eprf
Entries 800
Mean 0.2242
Mean y 81.05
RMS 0.03179
RMS y 8.878
Underflow 0
Overflow 0
E (GeV)
η

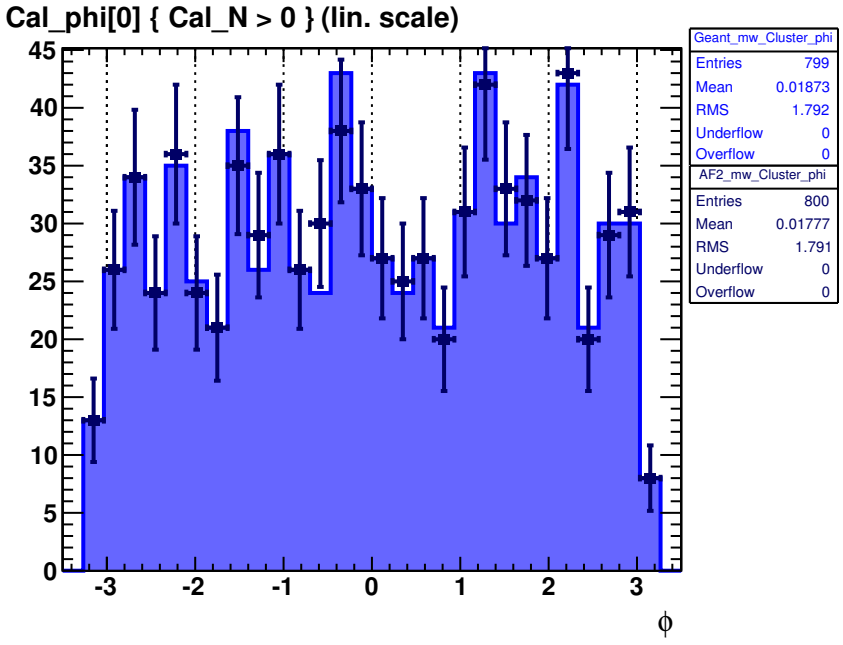

Cal_eta[0]-Gen_eta[0] { Cal_N > 0 }
Geant_mw_Cluster_deta0
Entries 799
Mean -0.0006166
RMS 0.0265
Underflow 0
Overflow 0
AF2_mw_Cluster_deta0
Entries 800
Mean -0.0009229
RMS 0.02783
Underflow 0
Overflow 0
η resolution

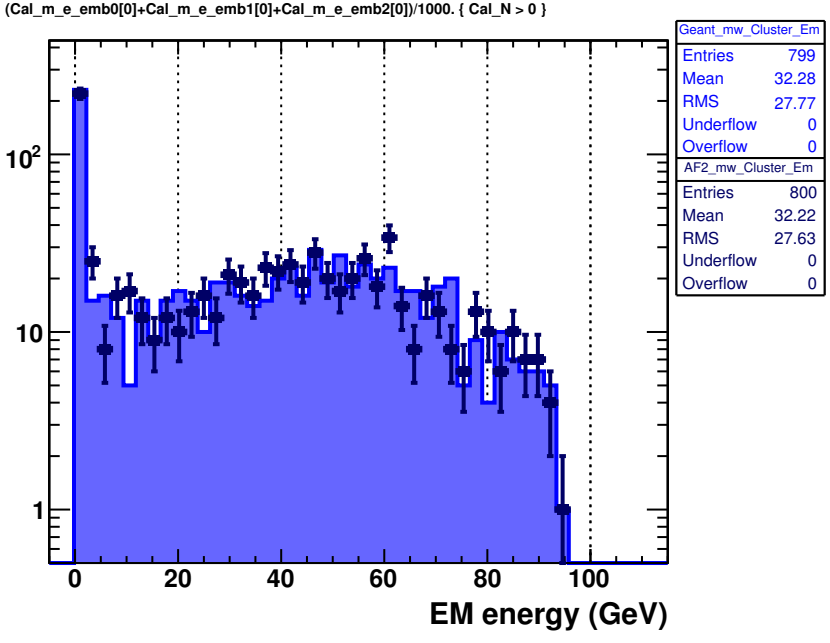

TVector2::Phi_mpi_pi(Cal_phi[0]-Gen_phi[0]) { Cal_N > 0 }
Geant_mw_Cluster_dphi0
Entries 799
Mean -0.005121
RMS 0.01068
Underflow 0
Overflow 0
AF2_mw_Cluster_dphi0
Entries 800
Mean -0.005321
RMS 0.006853
Underflow 0
Overflow 0
ϕ resolution

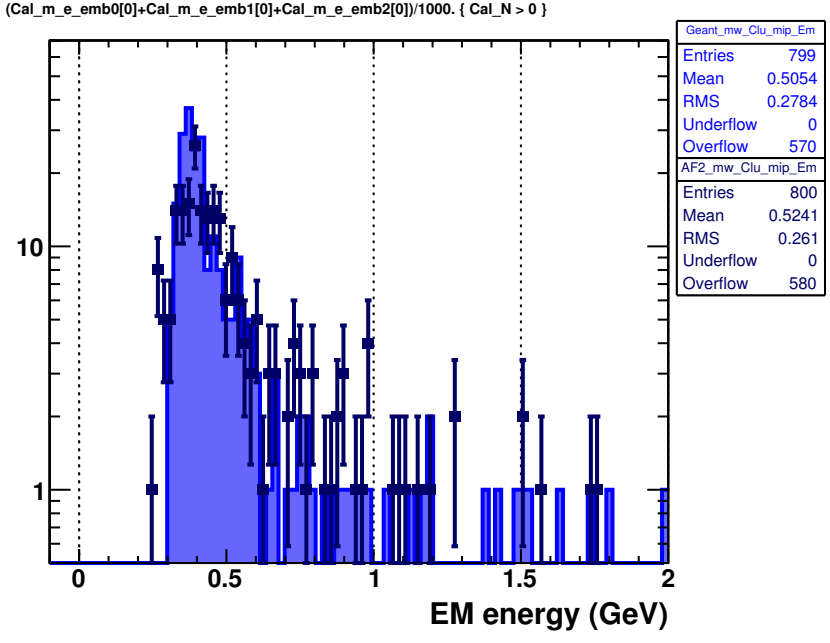

Cal_eta-Gen_eta[0] { Cal_N > 0 } (lin. scale)
Geant_mw_Cluster_deta
Entries 799
Mean -0.0006166
RMS 0.0265
Underflow 0
Overflow 0
AF2_mw_Cluster_deta
Entries 800
Mean -0.0009229
RMS 0.02783
Underflow 0
Overflow 0
η spread

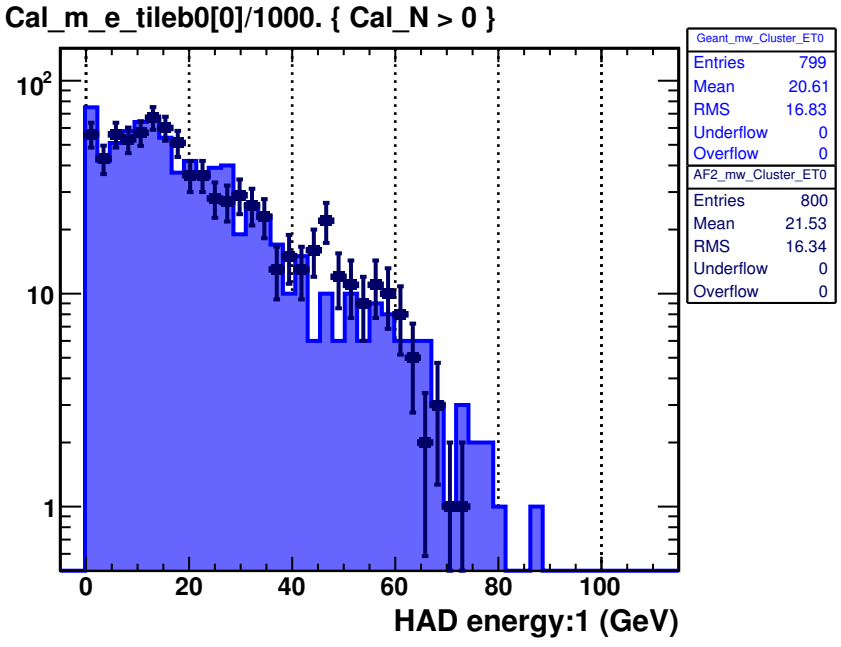

TVector2::Phi_mpi_pi(Cal_phi-Gen_phi[0]) { Cal_N > 0 } (lin. scale)
Geant_mw_Cluster_dphi
Entries 799
Mean -0.005121
RMS 0.01068
Underflow 0
Overflow 0
AF2_mw_Cluster_dphi
Entries 800
Mean -0.005321
RMS 0.006853
Underflow 0
Overflow 0
ϕ spread

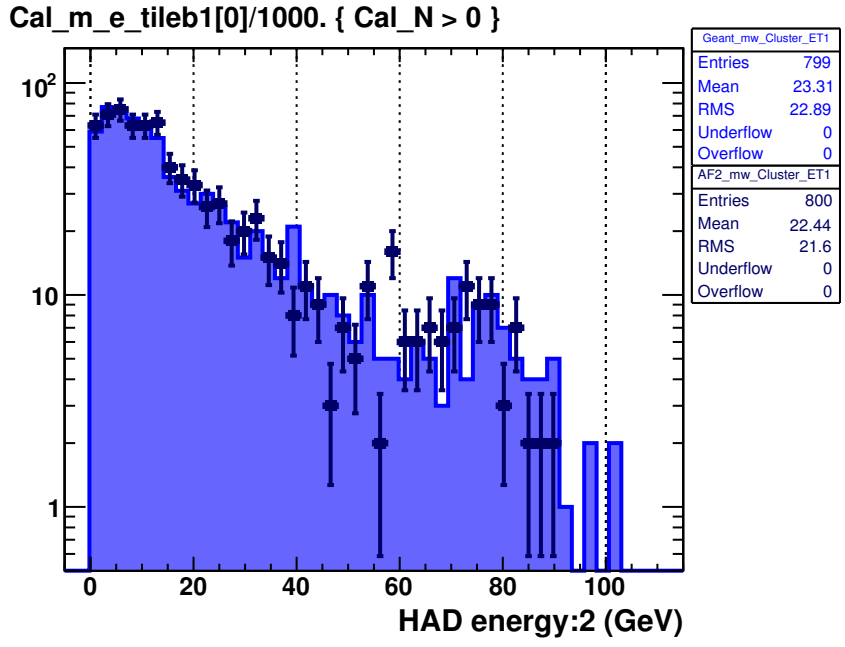

Cal_eta[0] { Cal_N > 0 } (lin. scale)
Geant_mw_Cluster_eta
Entries 799
Mean 0.2246
RMS 0.03065
Underflow 0
Overflow 0
AF2_mw_Cluster_eta
Entries 800
Mean 0.2242
RMS 0.03179
Underflow 0
Overflow 0
η

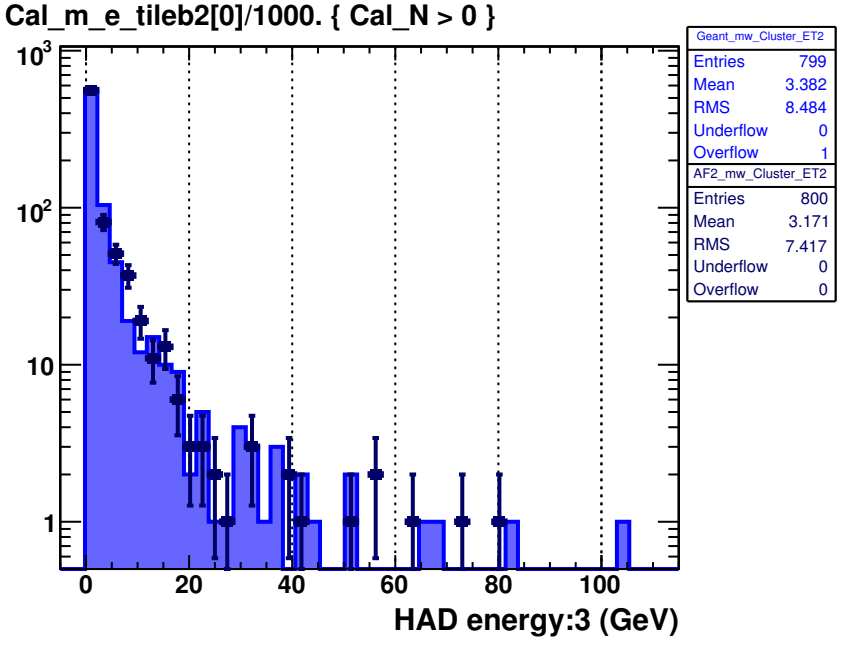

Cal_phi[0] { Cal_N > 0 } (lin. scale)
Geant_mw_Cluster_phi
Entries 799
Mean 0.01873
RMS 1.792
Underflow 0
Overflow 0
AF2_mw_Cluster_phi
Entries 800
Mean 0.01777
RMS 1.791
Underflow 0
Overflow 0
ϕ

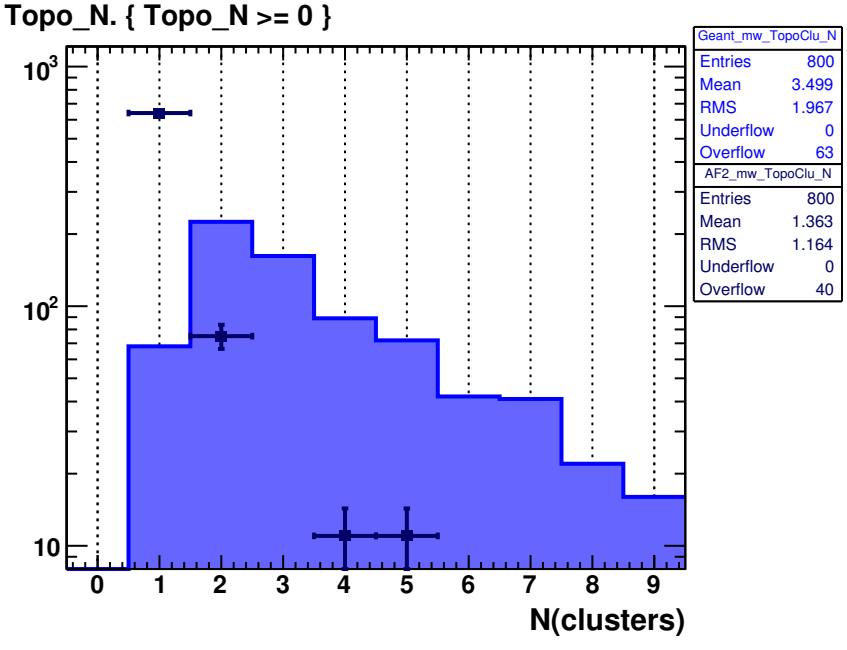

(Cal_m_e_emb0[0]+Cal_m_e_emb1[0]+Cal_m_e_emb2[0])/1000. { Cal_N > 0 }
Geant_mw_Cluster_Em
Entries 799
Mean 32.28
RMS 27.77
Underflow 0
Overflow 0
AF2_mw_Cluster_Em
Entries 800
Mean 32.22
RMS 27.63
Underflow 0
Overflow 0
EM energy (GeV)

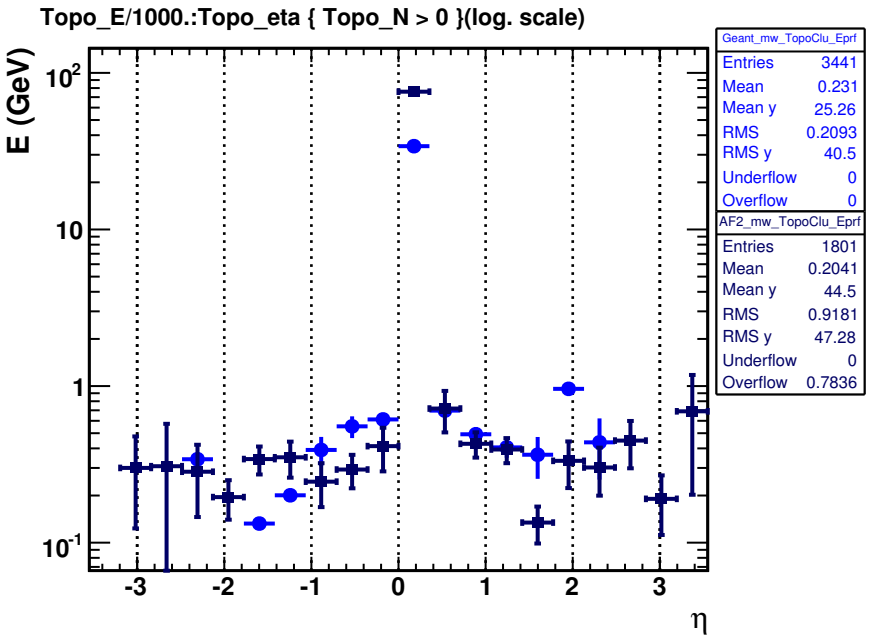

(Cal_m_e_emb0[0]+Cal_m_e_emb1[0]+Cal_m_e_emb2[0])/1000. { Cal_N > 0 }
Geant_mw_Clu_mip_Em
Entries 799
Mean 0.5054
RMS 0.2784
Underflow 0
Overflow 570
AF2_mw_Clu_mip_Em
Entries 800
Mean 0.5241
RMS 0.261
Underflow 0
Overflow 580
EM energy (GeV)

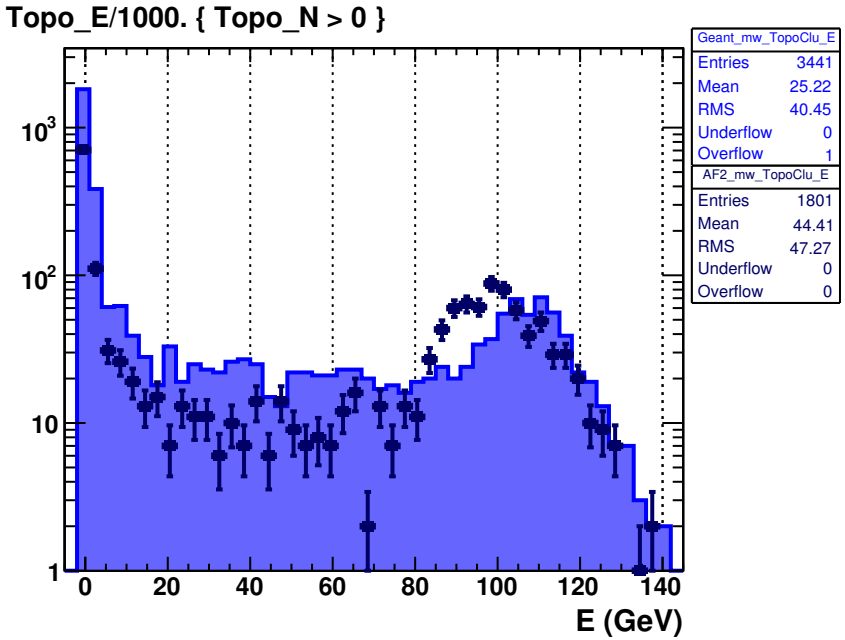

Cal_m_e_tileb0[0]/1000. { Cal_N > 0 }
Geant_mw_Cluster_ET0
Entries 799
Mean 20.61
RMS 16.83
Underflow 0
Overflow 0
AF2_mw_Cluster_ET0
Entries 800
Mean 21.53
RMS 16.34
Underflow 0
Overflow 0
HAD energy:1 (GeV)

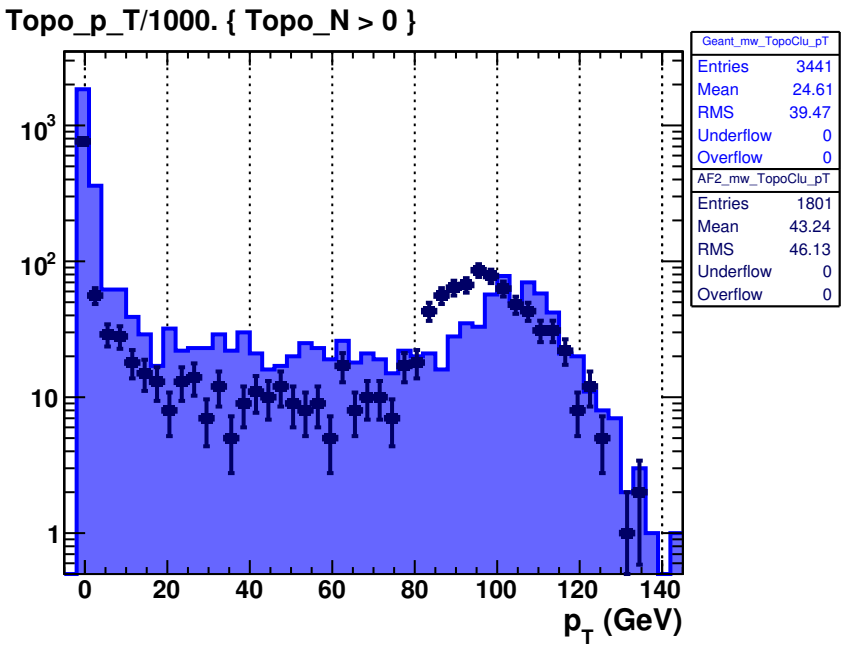

Cal_m_e_tileb1[0]/1000. { Cal_N > 0 }
Geant_mw_Cluster_ET1
Entries 799
Mean 23.31
RMS 22.89
Underflow 0
Overflow 0
AF2_mw_Cluster_ET1
Entries 800
Mean 22.44
RMS 21.6
Underflow 0
Overflow 0
HAD energy:2 (GeV)

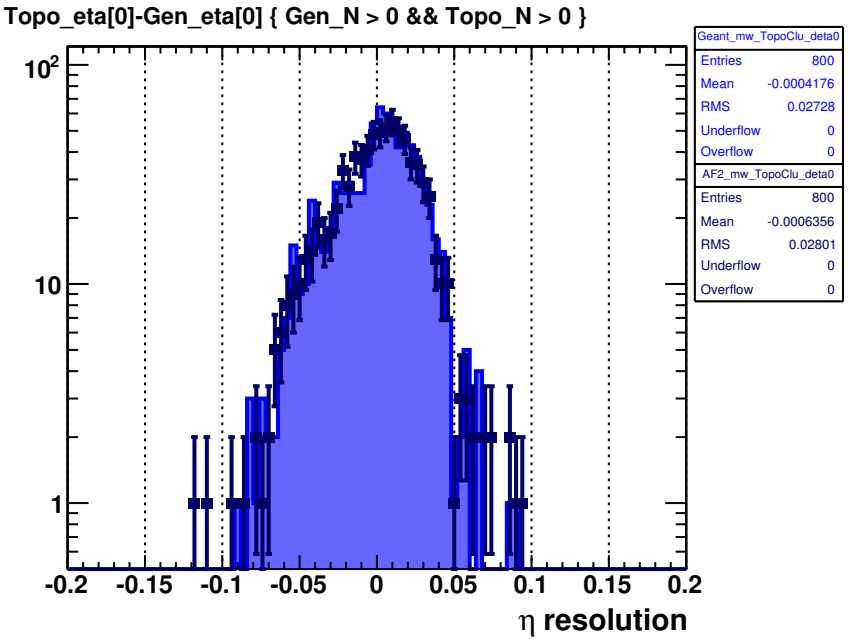

Cal_m_e_tileb2[0]/1000. { Cal_N > 0 }
Geant_mw_Cluster_ET2
Entries 799
Mean 3.382
RMS 8.484
Underflow 0
Overflow 1
AF2_mw_Cluster_ET2
Entries 800
Mean 3.171
RMS 7.417
Underflow 0
Overflow 0
HAD energy:3 (GeV)

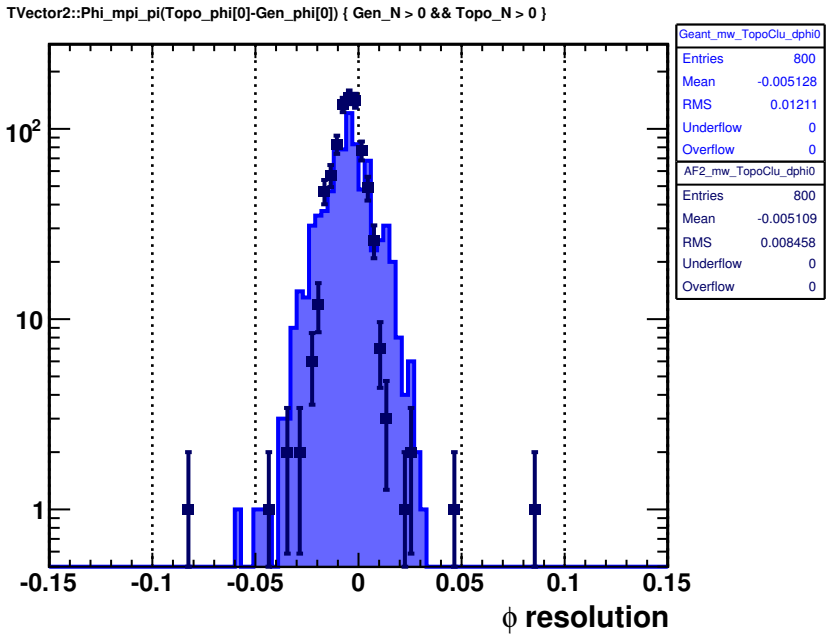

Topo_N. { Topo_N >= 0 }
Geant_mw_TopoClu_N
Entries 800
Mean 3.499
RMS 1.967
Underflow 0
Overflow 63
AF2_mw_TopoClu_N
Entries 800
Mean 1.363
RMS 1.164
Underflow 0
Overflow 40
N(clusters)

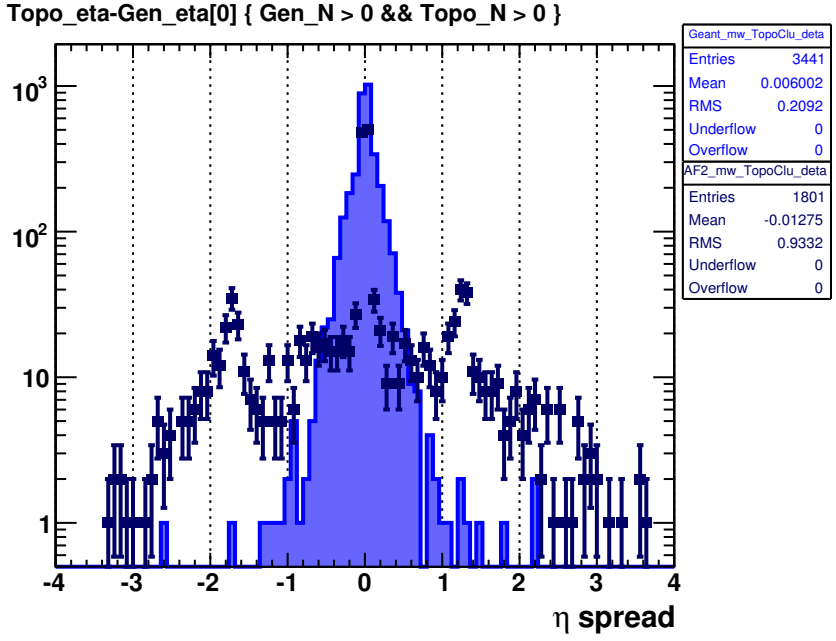

Topo_E/1000.:Topo_eta { Topo_N > 0 }(log. scale)
E (GeV)
η
Geant_mw_TopoClu_Eprf
Entries 3441
Mean 0.231
Mean y 25.26
RMS 0.2093
RMS y 40.5
Underflow 0
Overflow 0
AF2_mw_TopoClu_Eprf
Entries 1801
Mean 0.2041
Mean y 44.5
RMS 0.9181
RMS y 47.28
Underflow 0
Overflow 0.7836

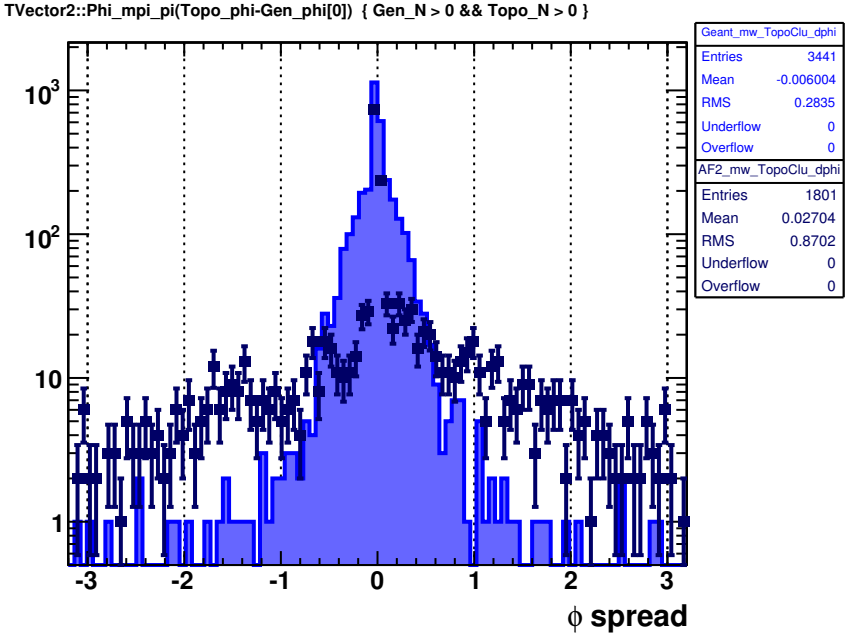

Topo_E/1000. { Topo_N > 0 }
E (GeV)
Geant_mw_TopoClu_E
Entries 3441
Mean 25.22
RMS 40.45
Underflow 0
Overflow 1
AF2_mw_TopoClu_E
Entries 1801
Mean 44.41
RMS 47.27
Underflow 0
Overflow 0

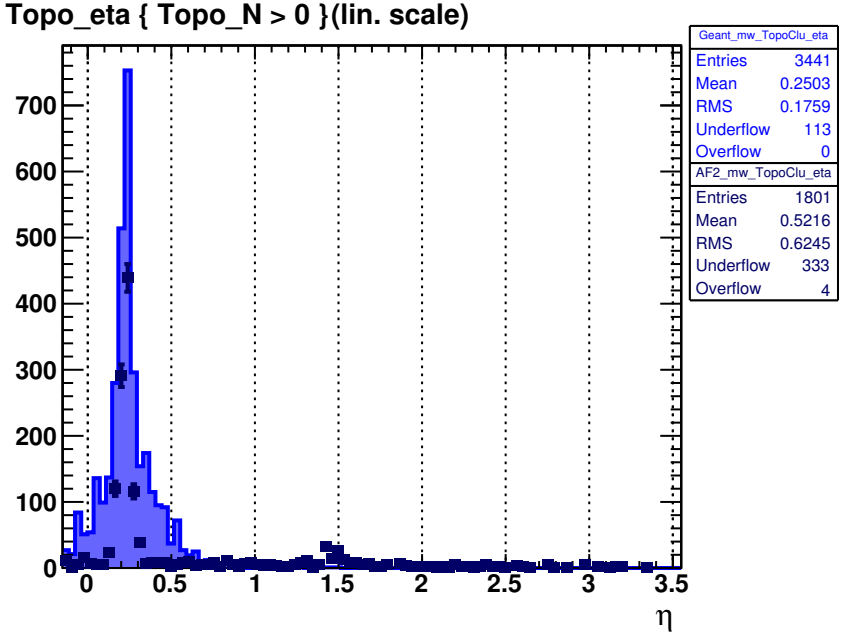

Topo_p_T/1000. { Topo_N > 0 }
p_T (GeV)
Geant_mw_TopoClu_pT
Entries 3441
Mean 24.61
RMS 39.47
Underflow 0
Overflow 0
AF2_mw_TopoClu_pT
Entries 1801
Mean 43.24
RMS 46.13
Underflow 0
Overflow 0

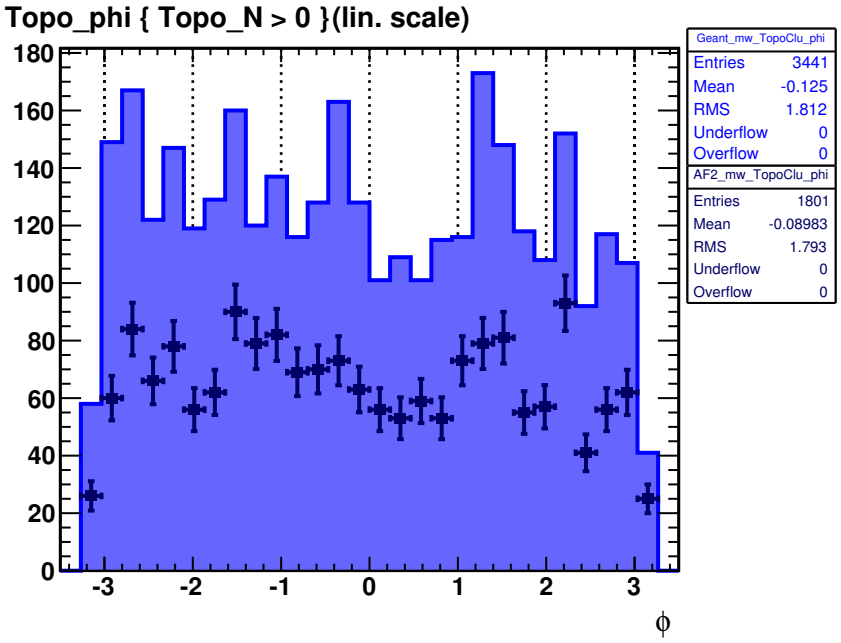

Topo_eta[0]-Gen_eta[0] { Gen_N > 0 && Topo_N > 0 }
η resolution
Geant_mw_TopoClu_deta0
Entries 800
Mean -0.0004176
RMS 0.02728
Underflow 0
Overflow 0
AF2_mw_TopoClu_deta0
Entries 800
Mean -0.0006356
RMS 0.02801
Underflow 0
Overflow 0

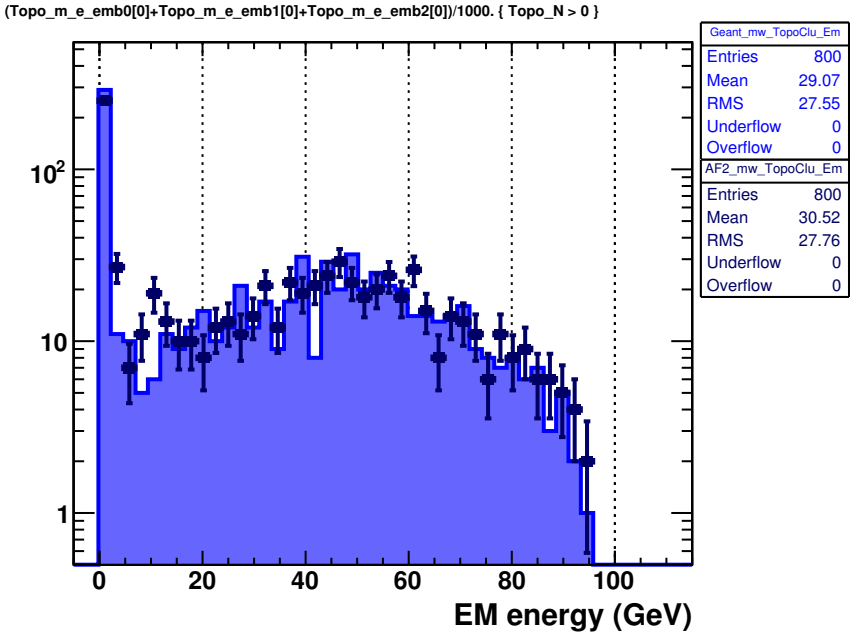

TVector2::Phi_mpi_pi(Topo_phi[0]-Gen_phi[0]) { Gen_N > 0 && Topo_N > 0 }
Geant_mw_TopoClu_dphi0
Entries 800
Mean -0.005128
RMS 0.01211
Underflow 0
Overflow 0
AF2_mw_TopoClu_dphi0
Entries 800
Mean -0.005109
RMS 0.008458
Underflow 0
Overflow 0
ϕ resolution

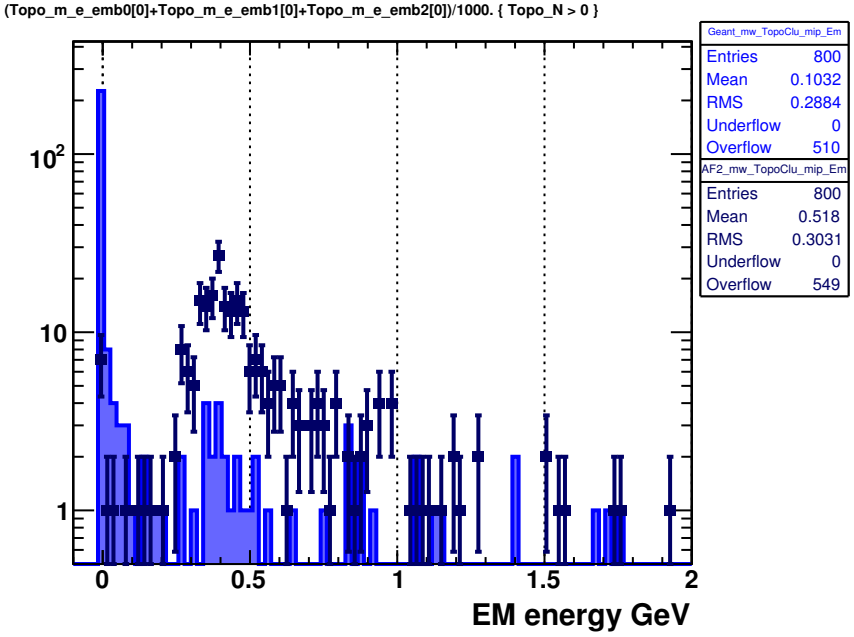

Topo_eta-Gen_eta[0] { Gen_N > 0 && Topo_N > 0 }
Geant_mw_TopoClu_deta
Entries 3441
Mean 0.006002
RMS 0.2092
Underflow 0
Overflow 0
AF2_mw_TopoClu_deta
Entries 1801
Mean -0.01275
RMS 0.9332
Underflow 0
Overflow 0
η spread

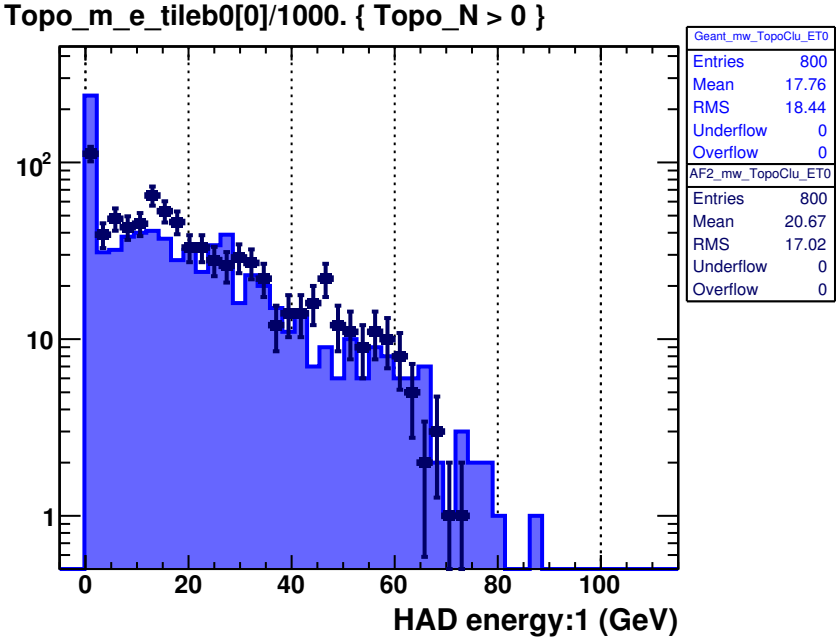

TVector2::Phi_mpi_pi(Topo_phi-Gen_phi[0]) { Gen_N > 0 && Topo_N > 0 }
Geant_mw_TopoClu_dphi
Entries 3441
Mean -0.006004
RMS 0.2835
Underflow 0
Overflow 0
AF2_mw_TopoClu_dphi
Entries 1801
Mean 0.02704
RMS 0.8702
Underflow 0
Overflow 0
ϕ spread

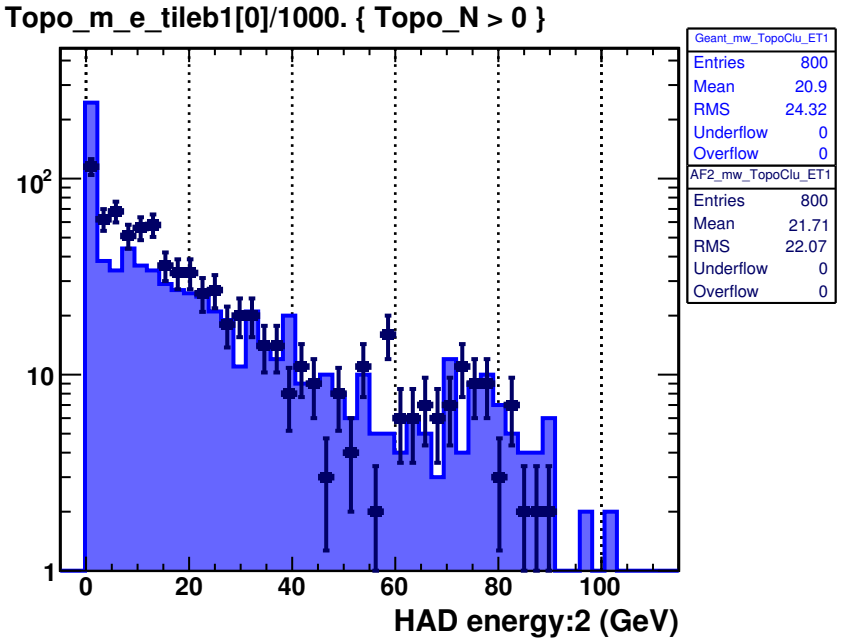

Topo_eta { Topo_N > 0 }(lin. scale)
Geant_mw_TopoClu_eta
Entries 3441
Mean 0.2503
RMS 0.1759
Underflow 113
Overflow 0
AF2_mw_TopoClu_eta
Entries 1801
Mean 0.5216
RMS 0.6245
Underflow 333
Overflow 4
η

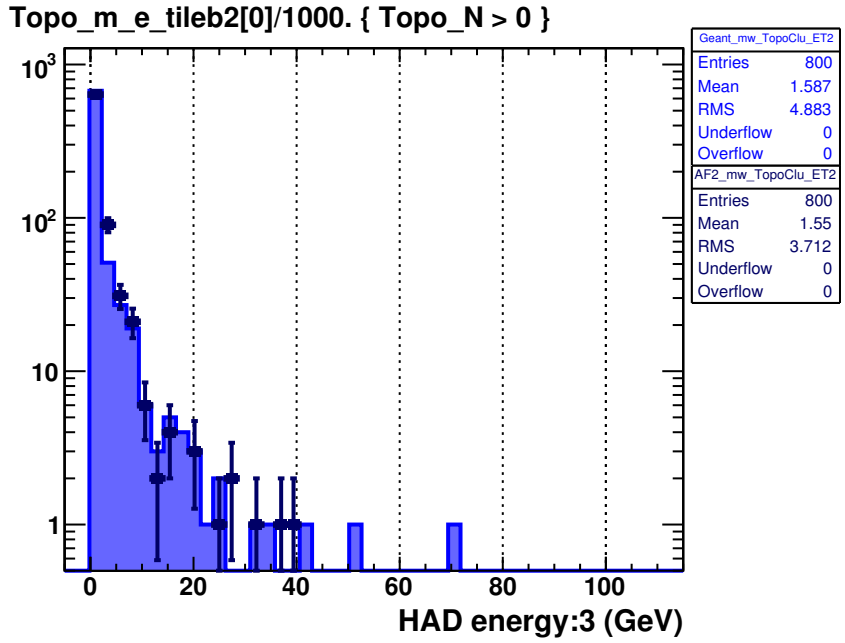

Topo_phi { Topo_N > 0 }(lin. scale)
Geant_mw_TopoClu_phi
Entries 3441
Mean -0.125
RMS 1.812
Underflow 0
Overflow 0
AF2_mw_TopoClu_phi
Entries 1801
Mean -0.08983
RMS 1.793
Underflow 0
Overflow 0
ϕ

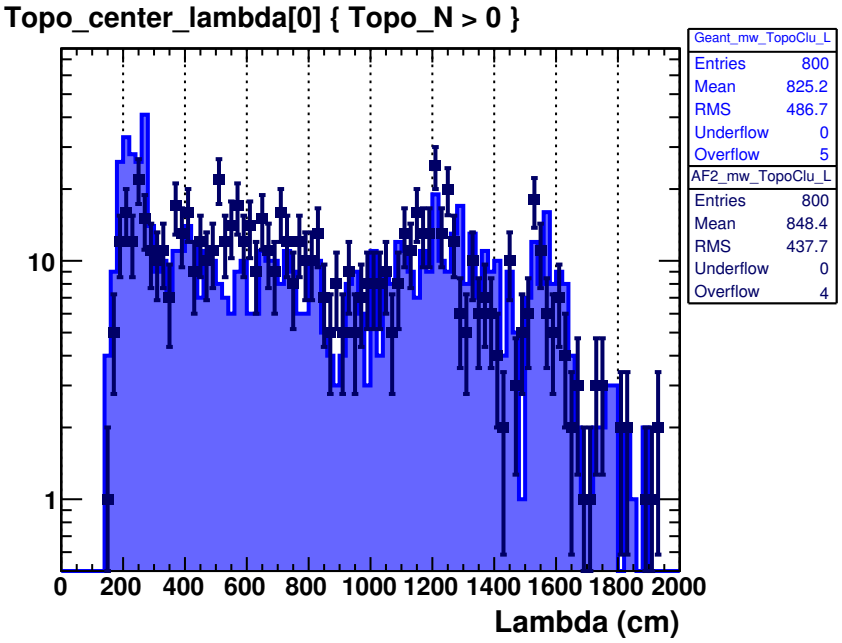

(Topo_m_e_emb0[0]+Topo_m_e_emb1[0]+Topo_m_e_emb2[0])/1000. { Topo_N > 0 }
Geant_mw_TopoClu_Em
Entries 800
Mean 29.07
RMS 27.55
Underflow 0
Overflow 0
AF2_mw_TopoClu_Em
Entries 800
Mean 30.52
RMS 27.76
Underflow 0
Overflow 0
EM energy (GeV)

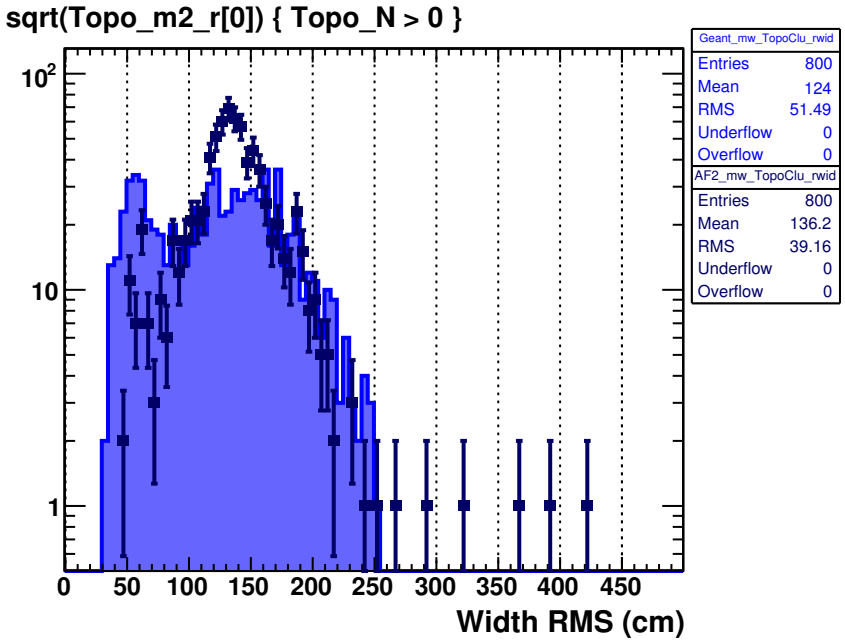
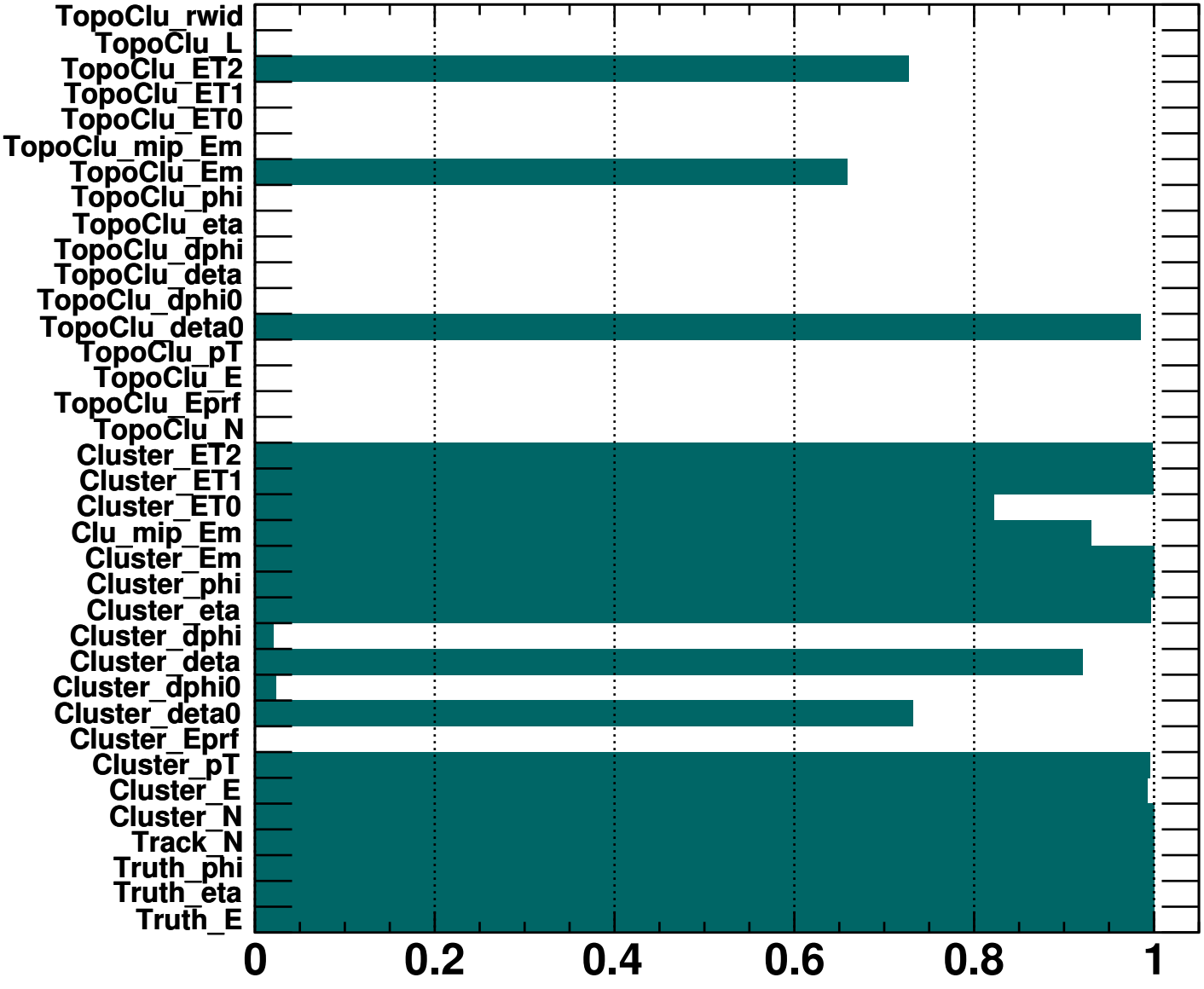

(Topo_m_e_emb0[0]+Topo_m_e_emb1[0]+Topo_m_e_emb2[0])/1000. { Topo_N > 0 }
Geant_mw_TopoClu_mip_Em
Entries 800
Mean 0.1032
RMS 0.2884
Underflow 0
Overflow 510
AF2_mw_TopoClu_mip_Em
Entries 800
Mean 0.518
RMS 0.3031
Underflow 0
Overflow 549
EM energy GeV


Topo_m_e_tileb0[0]/1000. { Topo_N > 0 }
Geant_mw_TopoClu_ET0
Entries 800
Mean 17.76
RMS 18.44
Underflow 0
Overflow 0
AF2_mw_TopoClu_ET0
Entries 800
Mean 20.67
RMS 17.02
Underflow 0
Overflow 0
HAD energy:1 (GeV)


Topo_m_e_tileb1[0]/1000. { Topo_N > 0 }
Geant_mw_TopoClu_ET1
Entries 800
Mean 20.9
RMS 24.32
Underflow 0
Overflow 0
AF2_mw_TopoClu_ET1
Entries 800
Mean 21.71
RMS 22.07
Underflow 0
Overflow 0
HAD energy:2 (GeV)


Topo_m_e_tileb2[0]/1000. { Topo_N > 0 }
Geant_mw_TopoClu_ET2
Entries 800
Mean 1.587
RMS 4.883
Underflow 0
Overflow 0
AF2_mw_TopoClu_ET2
Entries 800
Mean 1.55
RMS 3.712
Underflow 0
Overflow 0
HAD energy:3 (GeV)


Topo_center_lambda[0] { Topo_N > 0 }
Geant_mw_TopoClu_L
Entries 800
Mean 825.2
RMS 486.7
Underflow 0
Overflow 5
AF2_mw_TopoClu_L
Entries 800
Mean 848.4
RMS 437.7
Underflow 0
Overflow 4
Lambda (cm)


sqrt(Topo_m2_r[0]) { Topo_N > 0 }
Geant_mw_TopoClu_rwid
Entries 800
Mean 124
RMS 51.49
Underflow 0
Overflow 0
AF2_mw_TopoClu_rwid
Entries 800
Mean 136.2
RMS 39.16
Underflow 0
Overflow 0
Width RMS (cm)

χ^2 for distributions