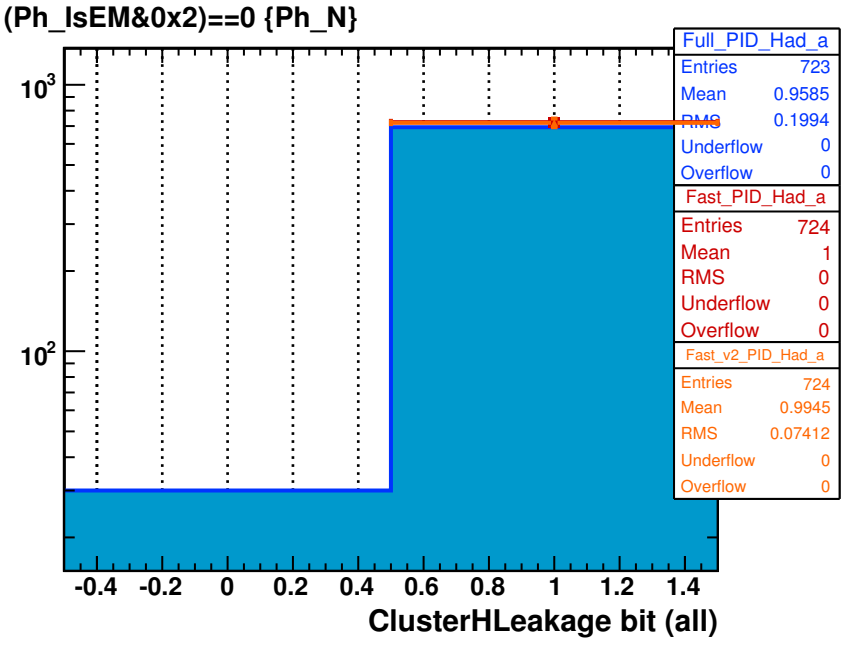
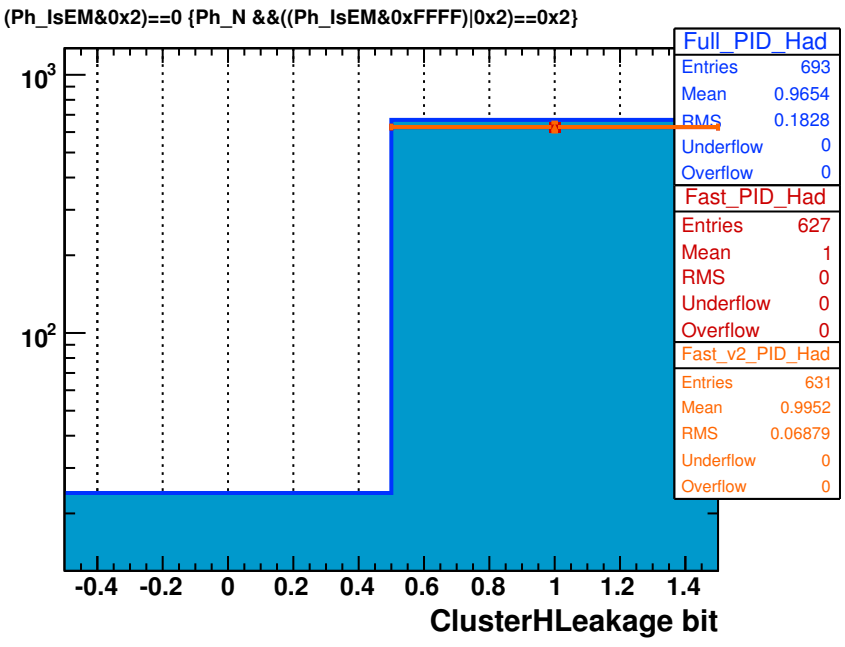
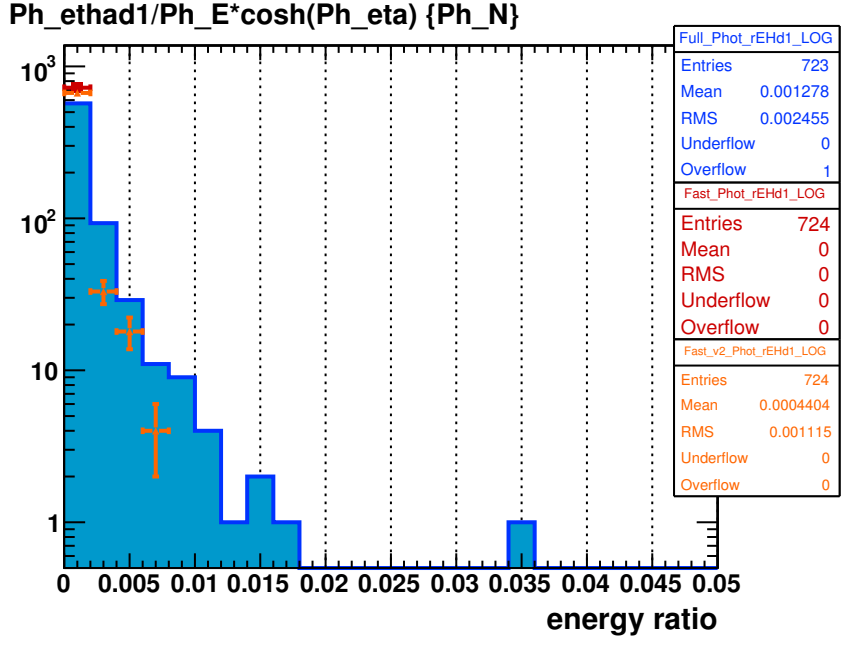
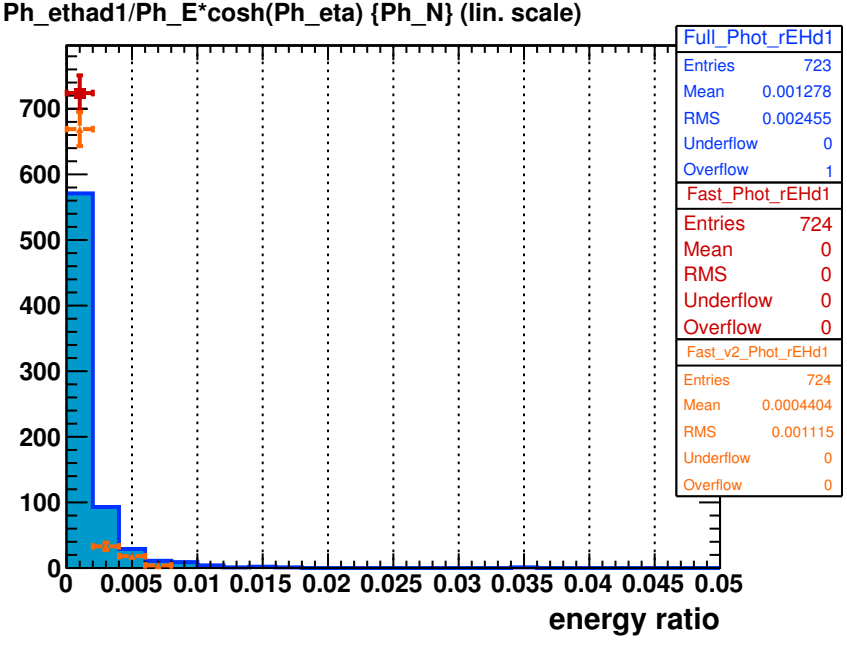
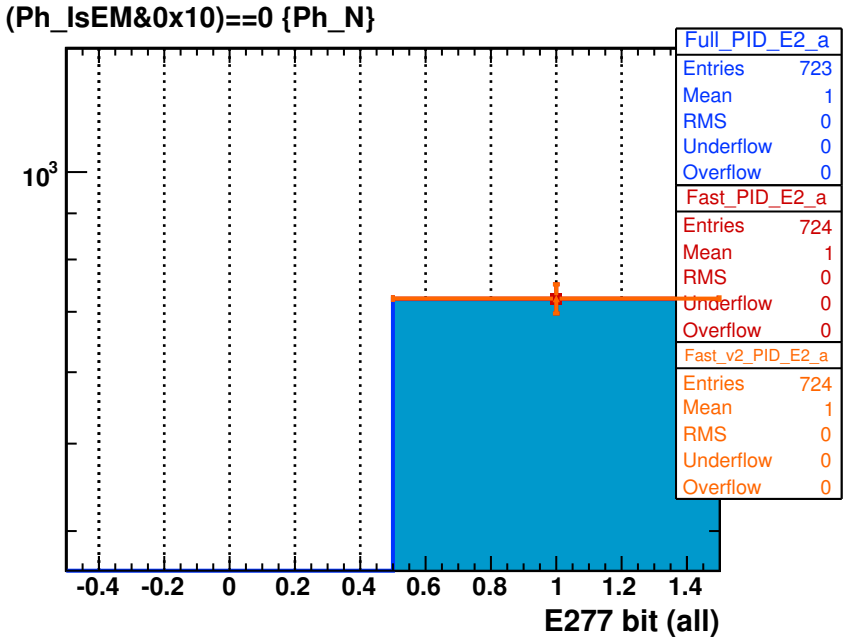
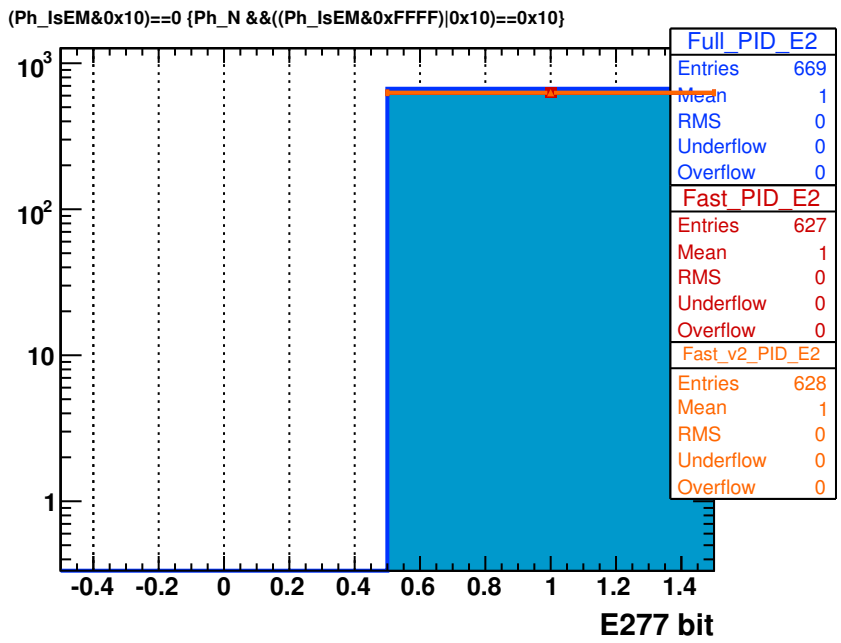

(Ph_IsEM&0x2)==0 {Ph_N}
Full_PID_Had_a
Entries 723
Mean 0.9585
RMS 0.1994
Underflow 0
Overflow 0
Fast_PID_Had_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_Had_a
Entries 724
Mean 0.9945
RMS 0.07412
Underflow 0
Overflow 0
ClusterHLeakage bit (all)

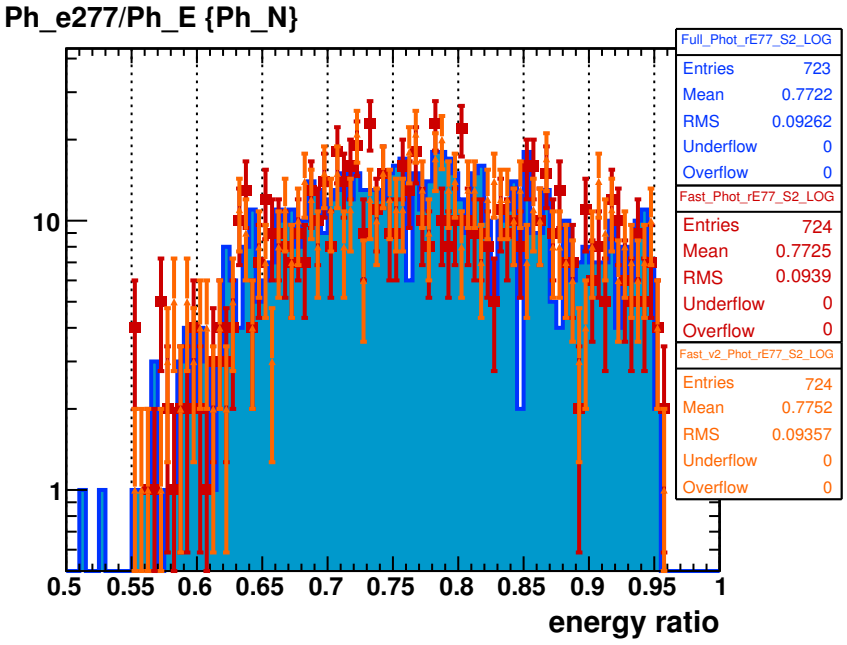

(Ph_IsEM&0x2)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x2)==0x2}
Full_PID_Had
Entries 693
Mean 0.9654
RMS 0.1828
Underflow 0
Overflow 0
Fast_PID_Had
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_Had
Entries 631
Mean 0.9952
RMS 0.06879
Underflow 0
Overflow 0
ClusterHLeakage bit

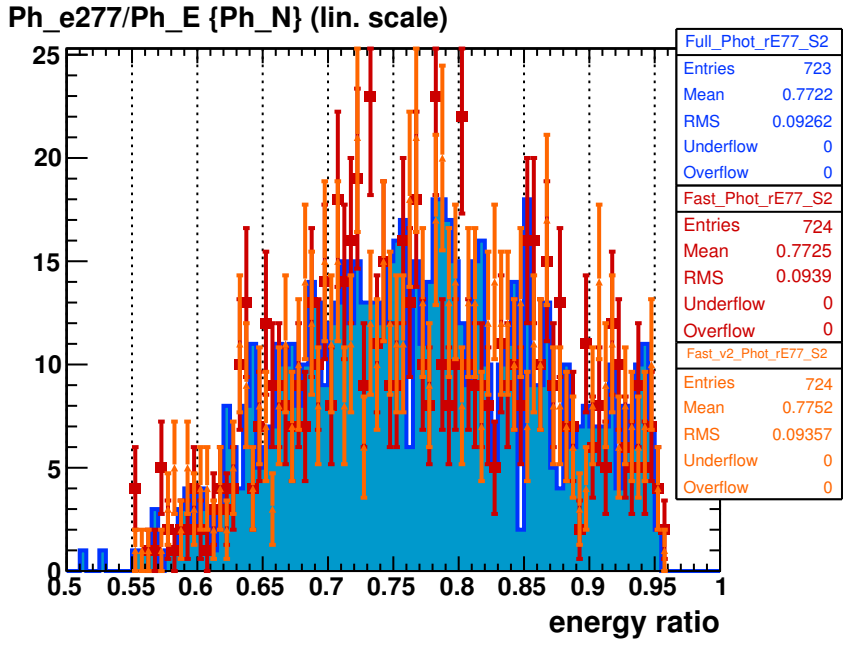

Ph_ethad1/Ph_E*cosh(Ph_eta) {Ph_N}
Full_Phot_rEHd1_LOG
Entries 723
Mean 0.001278
RMS 0.002455
Underflow 0
Overflow 1
Fast_Phot_rEHd1_LOG
Entries 724
Mean 0
RMS 0
Underflow 0
Overflow 0
Fast_v2_Phot_rEHd1_LOG
Entries 724
Mean 0.0004404
RMS 0.001115
Underflow 0
Overflow 0
energy ratio

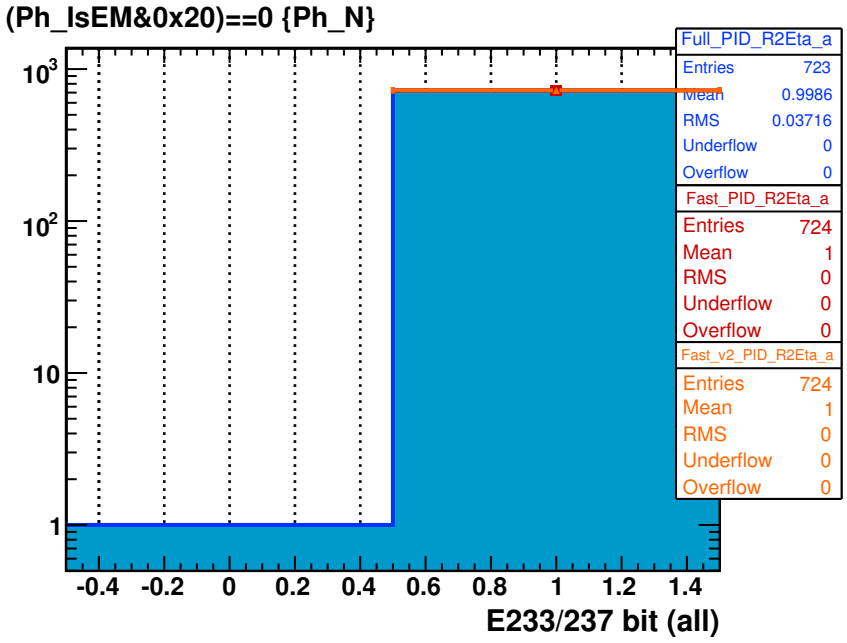

Ph_ethad1/Ph_E*cosh(Ph_eta) {Ph_N} (lin. scale)
Full_Phot_rEHd1
Entries 723
Mean 0.001278
RMS 0.002455
Underflow 0
Overflow 1
Fast_Phot_rEHd1
Entries 724
Mean 0
RMS 0
Underflow 0
Overflow 0
Fast_v2_Phot_rEHd1
Entries 724
Mean 0.0004404
RMS 0.001115
Underflow 0
Overflow 0
energy ratio

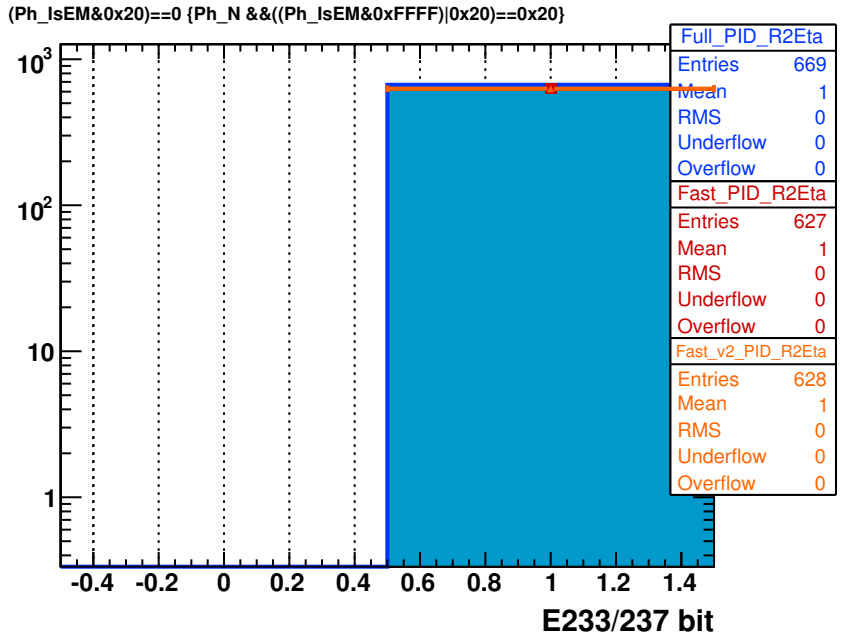

(Ph_IsEM&0x10)==0 {Ph_N}
Full_PID_E2_a
Entries 723
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_E2_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_E2_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
E277 bit (all)

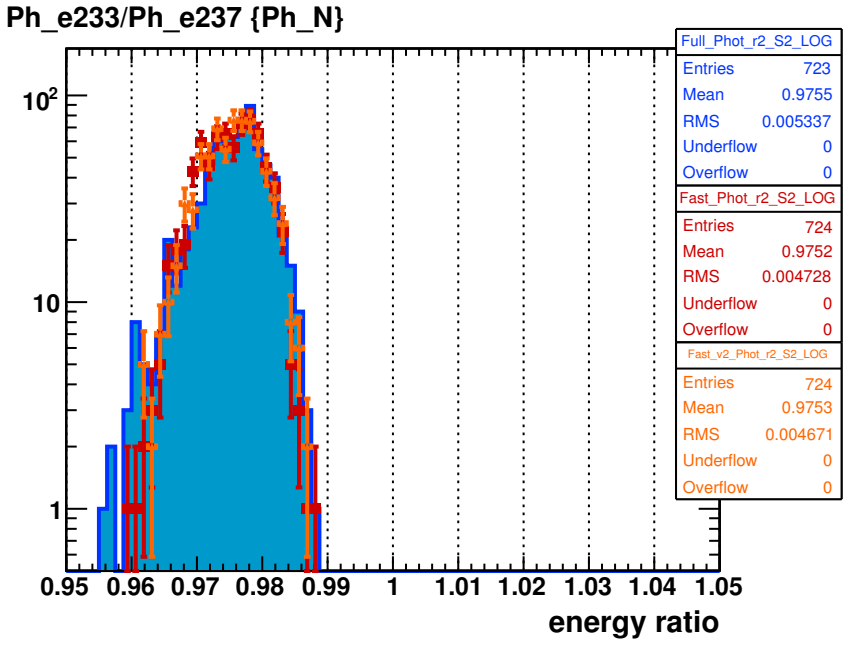

(Ph_IsEM&0x10)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x10)==0x10}
Full_PID_E2
Entries 669
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_E2
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_E2
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
E277 bit

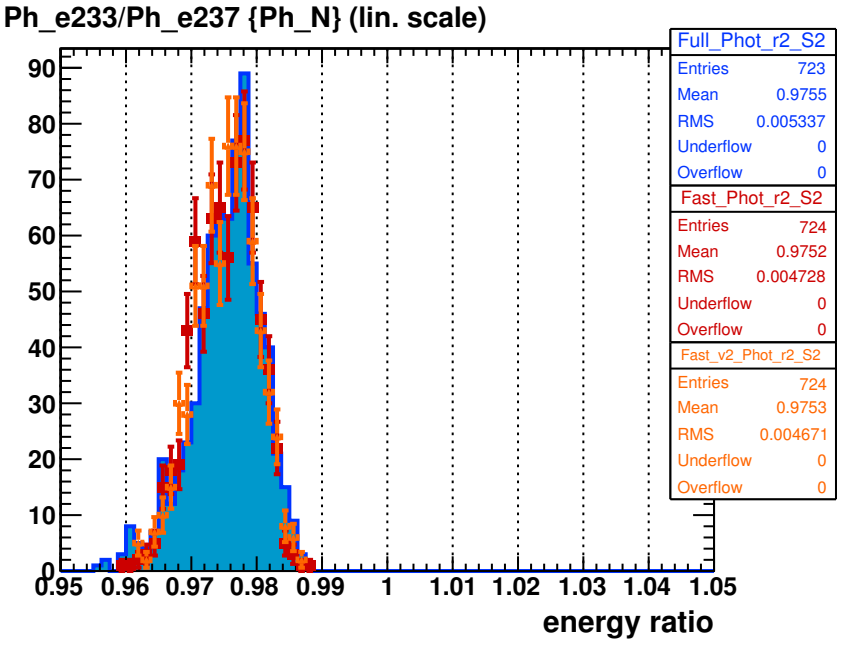

Ph_e277/Ph_E {Ph_N}
Full_Phot_rE77_S2_LOG
Entries 723
Mean 0.7722
RMS 0.09262
Underflow 0
Overflow 0
Fast_Phot_rE77_S2_LOG
Entries 724
Mean 0.7725
RMS 0.0939
Underflow 0
Overflow 0
Fast_v2_Phot_rE77_S2_LOG
Entries 724
Mean 0.7752
RMS 0.09357
Underflow 0
Overflow 0
energy ratio

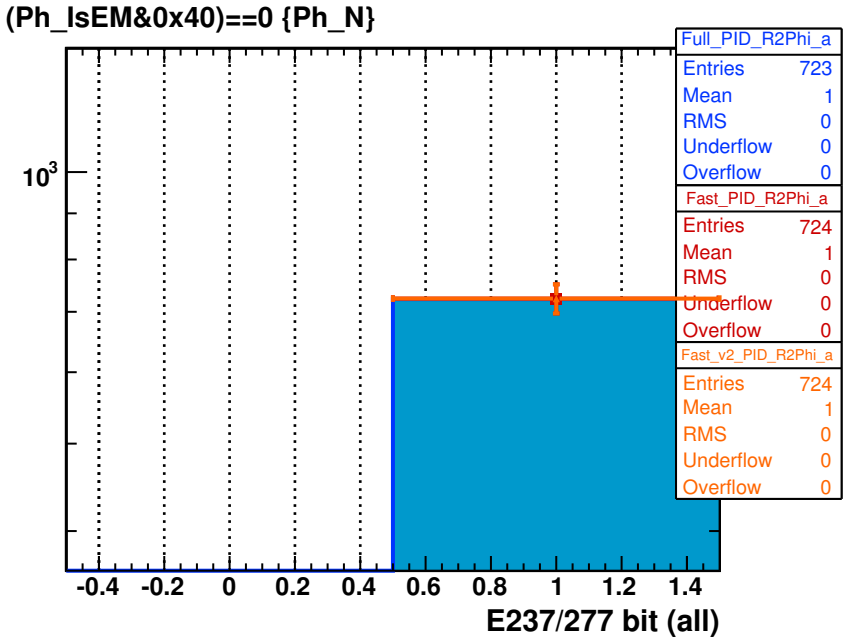

Ph_e277/Ph_E {Ph_N} (lin. scale)
Full_Phot_rE77_S2
Entries 723
Mean 0.7722
RMS 0.09262
Underflow 0
Overflow 0
Fast_Phot_rE77_S2
Entries 724
Mean 0.7725
RMS 0.0939
Underflow 0
Overflow 0
Fast_v2_Phot_rE77_S2
Entries 724
Mean 0.7752
RMS 0.09357
Underflow 0
Overflow 0
energy ratio

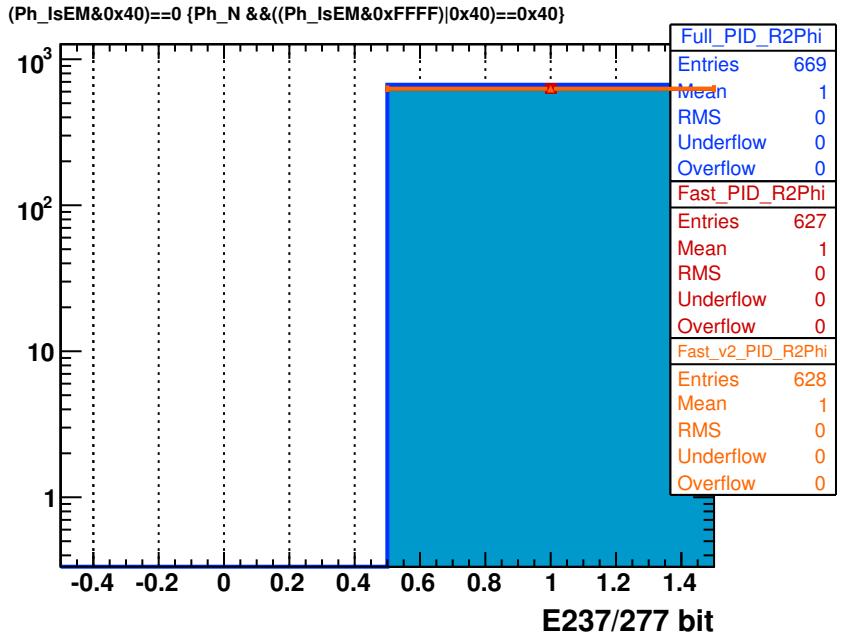

(Ph_IsEM&0x20)==0 {Ph_N}
Full_PID_R2Eta_a
Entries 723
Mean 0.9986
RMS 0.03716
Underflow 0
Overflow 0
Fast_PID_R2Eta_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_R2Eta_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
E233/237 bit (all)

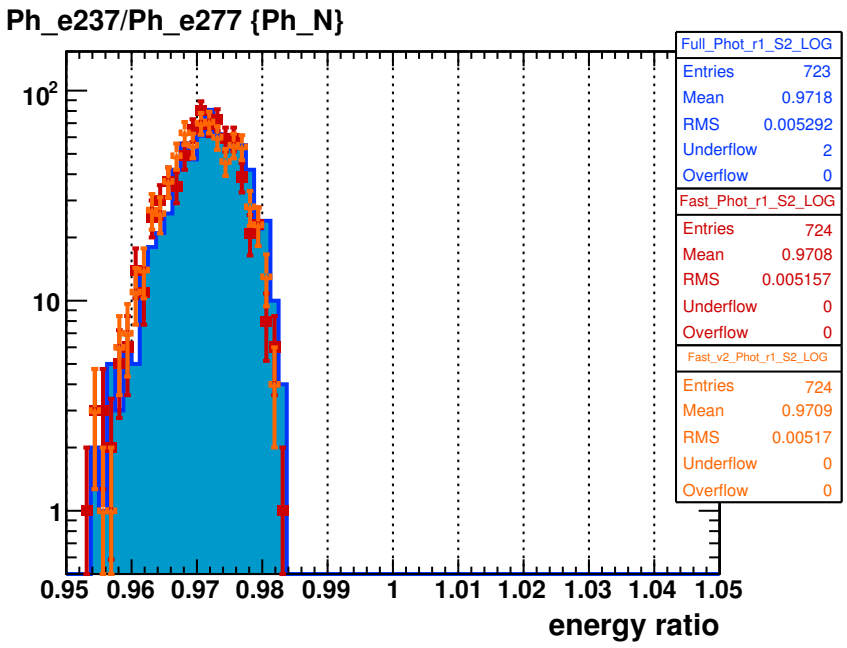

(Ph_IsEM&0x20)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x20)==0x20}
Full_PID_R2Eta
Entries 669
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_R2Eta
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_R2Eta
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
E233/237 bit

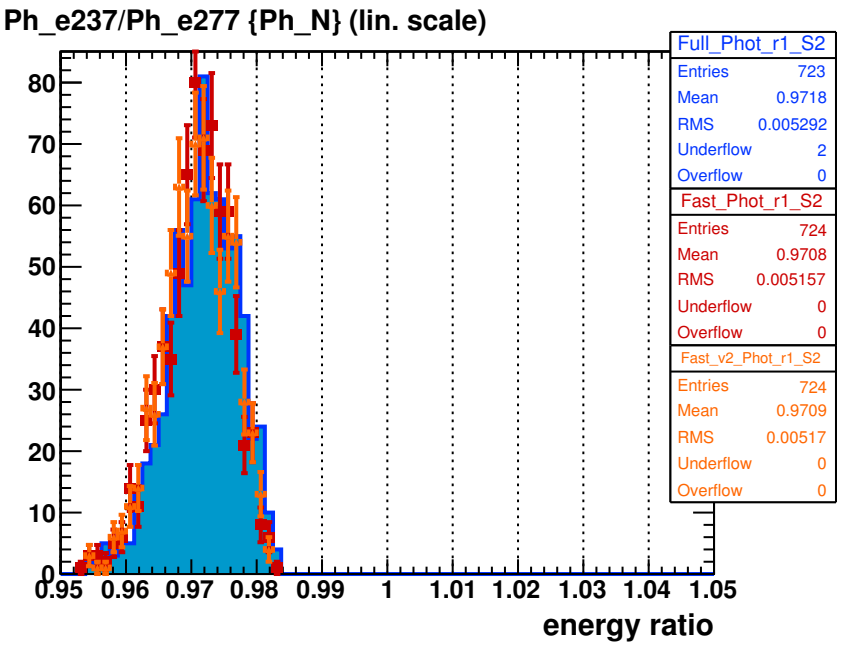

Ph_e233/Ph_e237 {Ph_N}
Full_Phot_r2_S2_LOG
Entries 723
Mean 0.9755
RMS 0.005337
Underflow 0
Overflow 0
Fast_Phot_r2_S2_LOG
Entries 724
Mean 0.9752
RMS 0.004728
Underflow 0
Overflow 0
Fast_v2_Phot_r2_S2_LOG
Entries 724
Mean 0.9753
RMS 0.004671
Underflow 0
Overflow 0
energy ratio

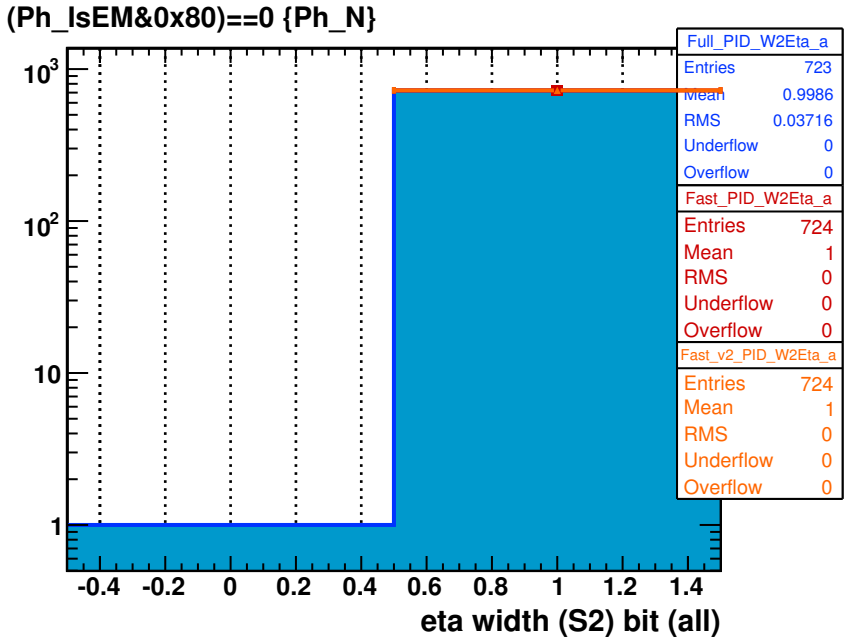

Ph_e233/Ph_e237 {Ph_N} (lin. scale)
Full_Phot_r2_S2
Entries 723
Mean 0.9755
RMS 0.005337
Underflow 0
Overflow 0
Fast_Phot_r2_S2
Entries 724
Mean 0.9752
RMS 0.004728
Underflow 0
Overflow 0
Fast_v2_Phot_r2_S2
Entries 724
Mean 0.9753
RMS 0.004671
Underflow 0
Overflow 0
energy ratio

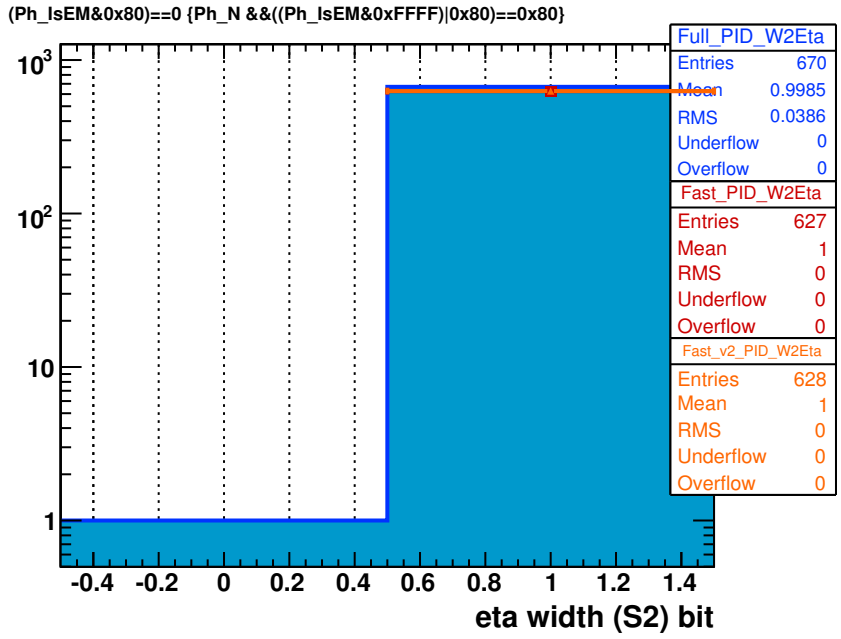

(Ph_IsEM&0x40)==0 {Ph_N}
Full_PID_R2Phi_a
Entries 723
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_R2Phi_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_R2Phi_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
E237/277 bit (all)

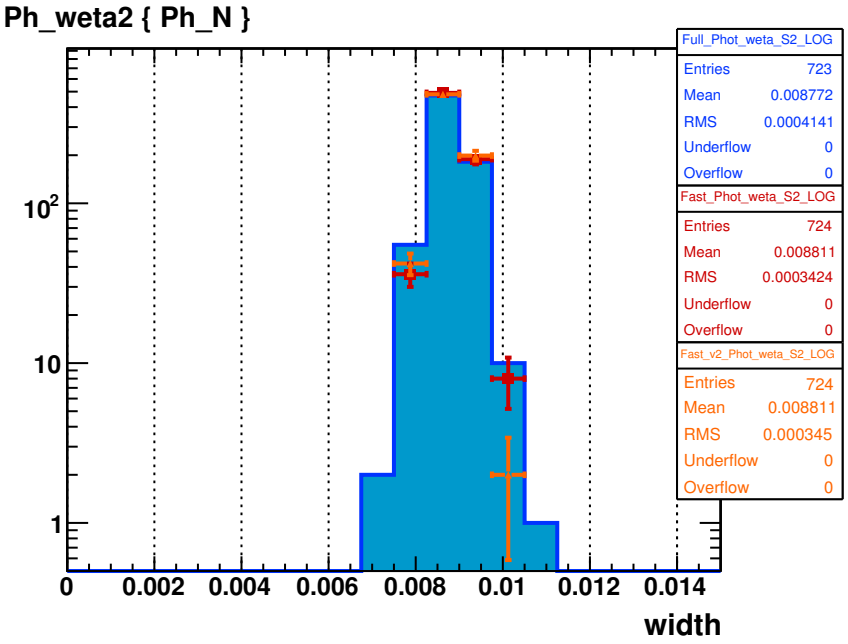

(Ph_IsEM&0x40)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x40)==0x40}
Full_PID_R2Phi
Entries 669
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_R2Phi
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_R2Phi
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
E237/277 bit

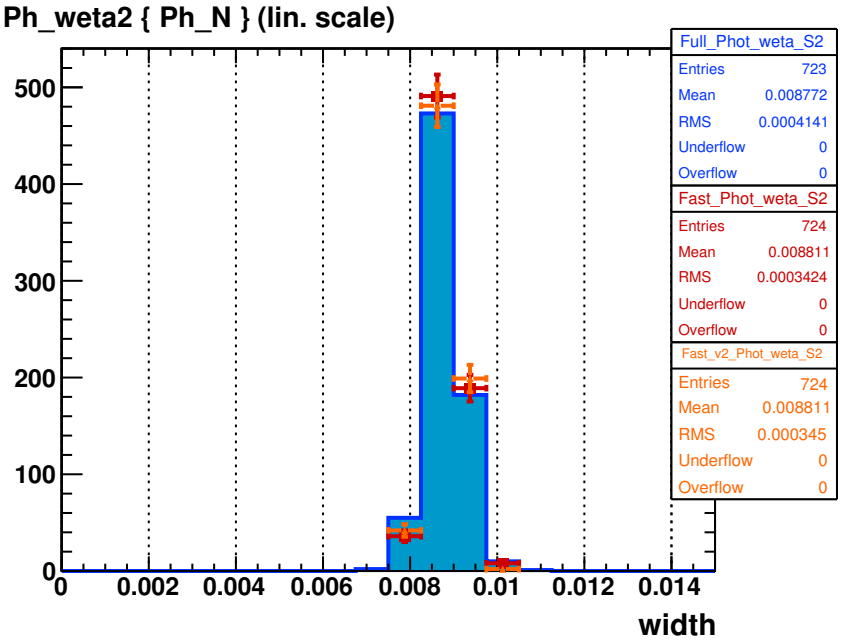

Ph_e237/Ph_e277 {Ph_N}
Full_Phot_r1_S2_LOG
Entries 723
Mean 0.9718
RMS 0.005292
Underflow 2
Overflow 0
Fast_Phot_r1_S2_LOG
Entries 724
Mean 0.9708
RMS 0.005157
Underflow 0
Overflow 0
Fast_v2_Phot_r1_S2_LOG
Entries 724
Mean 0.9709
RMS 0.00517
Underflow 0
Overflow 0
energy ratio

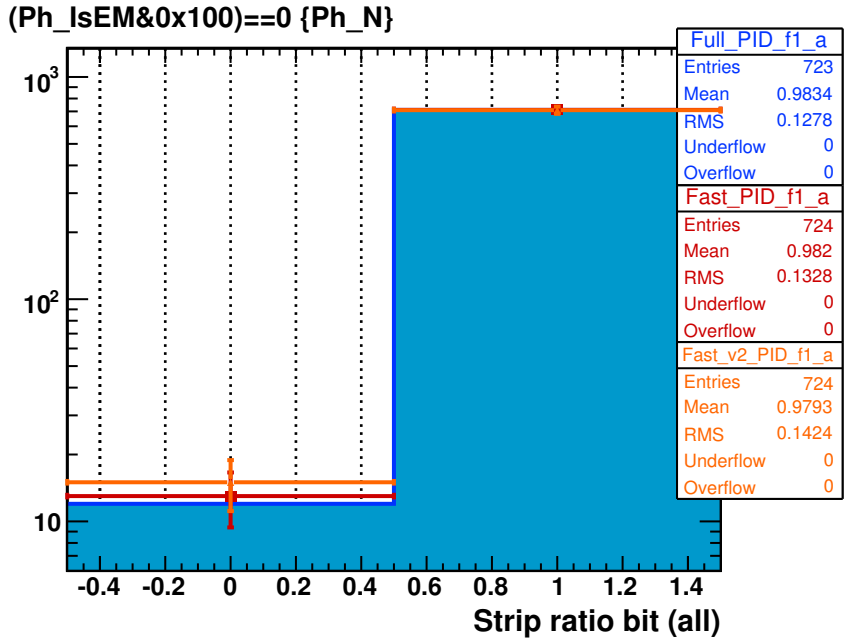

Ph_e237/Ph_e277 {Ph_N} (lin. scale)
Full_Phot_r1_S2
Entries 723
Mean 0.9718
RMS 0.005292
Underflow 2
Overflow 0
Fast_Phot_r1_S2
Entries 724
Mean 0.9708
RMS 0.005157
Underflow 0
Overflow 0
Fast_v2_Phot_r1_S2
Entries 724
Mean 0.9709
RMS 0.00517
Underflow 0
Overflow 0
energy ratio

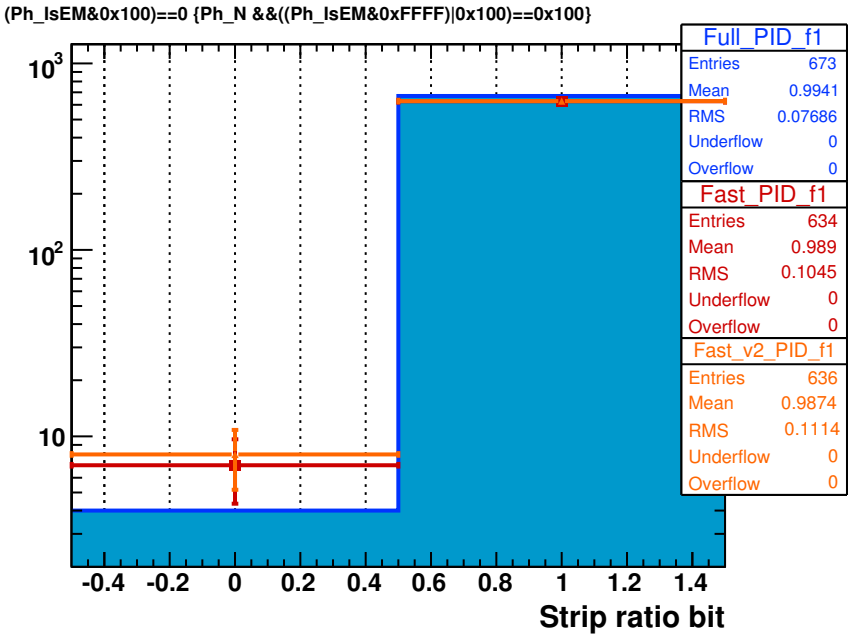

(Ph_IsEM&0x80)==0 {Ph_N}
Full_PID_W2Eta_a
Entries 723
Mean 0.9986
RMS 0.03716
Underflow 0
Overflow 0
Fast_PID_W2Eta_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_W2Eta_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
eta width (S2) bit (all)

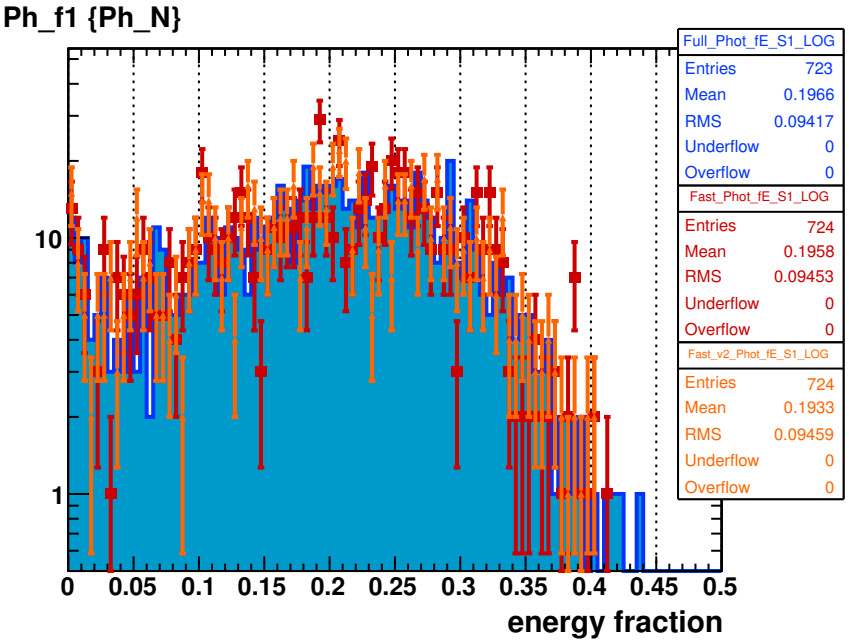

(Ph_IsEM&0x80)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x80)==0x80}
Full_PID_W2Eta
Entries 670
Mean 0.9985
RMS 0.0386
Underflow 0
Overflow 0
Fast_PID_W2Eta
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_W2Eta
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
eta width (S2) bit

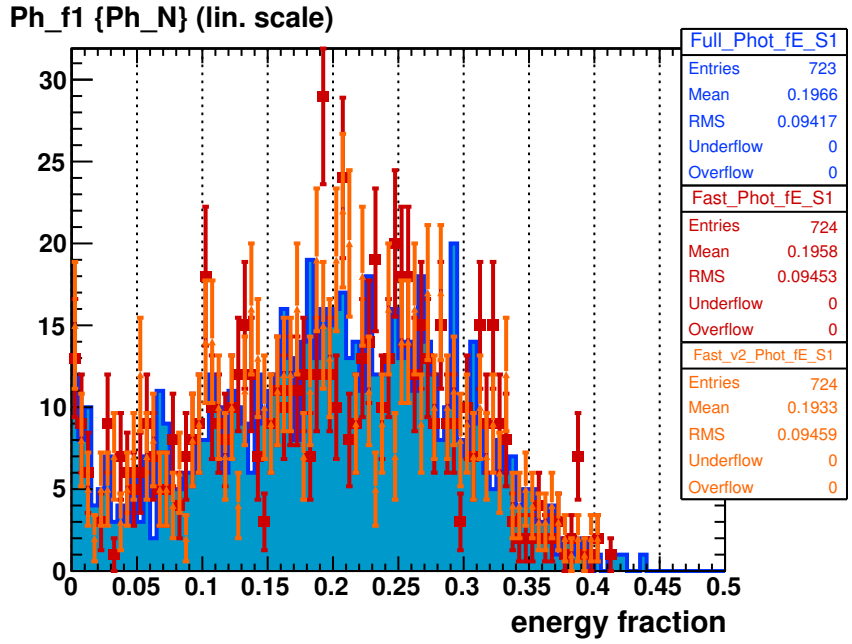

Ph_weta2 { Ph_N }
Full_Phot_weta_S2_LOG
Entries 723
Mean 0.008772
RMS 0.0004141
Underflow 0
Overflow 0
Fast_Phot_weta_S2_LOG
Entries 724
Mean 0.008811
RMS 0.0003424
Underflow 0
Overflow 0
Fast_v2_Phot_weta_S2_LOG
Entries 724
Mean 0.008811
RMS 0.000345
Underflow 0
Overflow 0
width

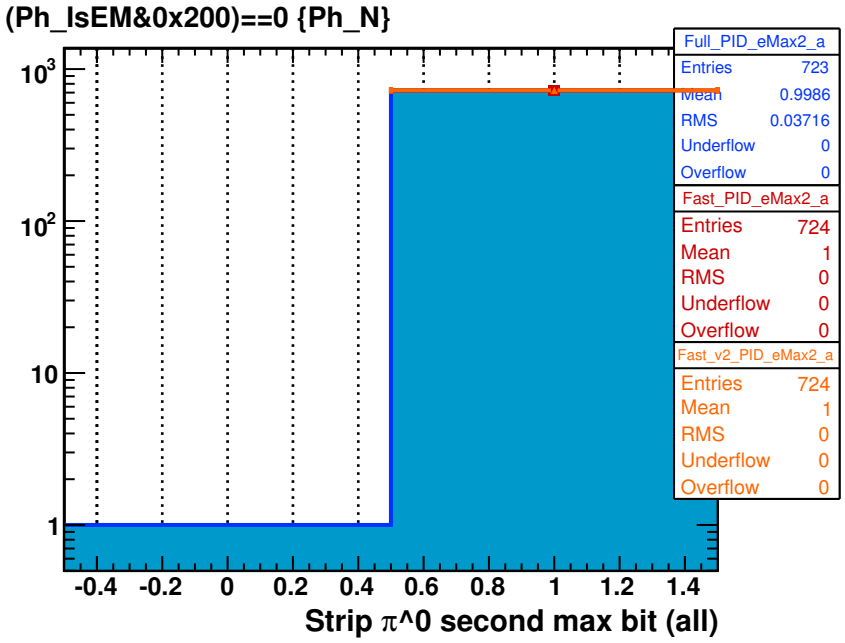

Ph_weta2 { Ph_N } (lin. scale)
Full_Phot_weta_S2
Entries 723
Mean 0.008772
RMS 0.0004141
Underflow 0
Overflow 0
Fast_Phot_weta_S2
Entries 724
Mean 0.008811
RMS 0.0003424
Underflow 0
Overflow 0
Fast_v2_Phot_weta_S2
Entries 724
Mean 0.008811
RMS 0.000345
Underflow 0
Overflow 0
width

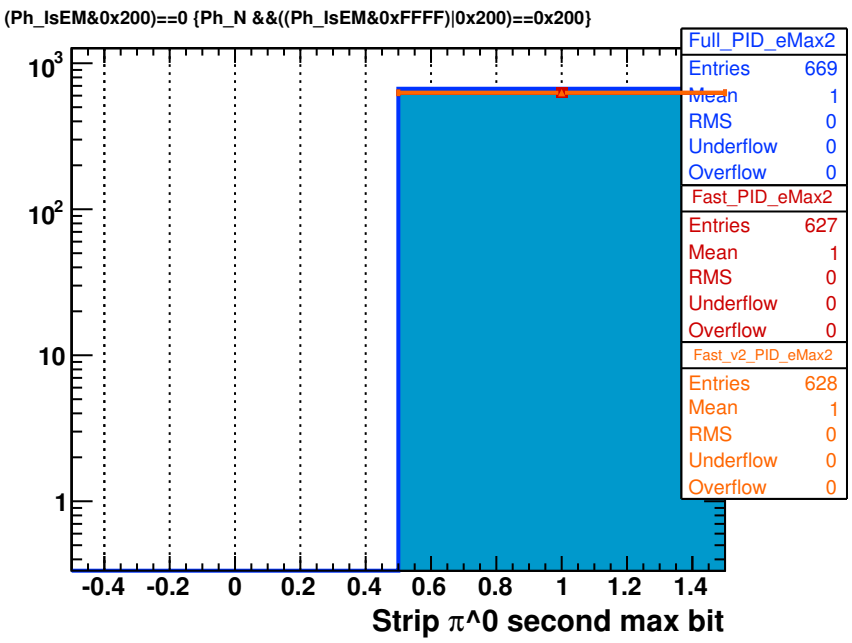

(Ph_IsEM&0x100)==0 {Ph_N}
Full_PID_f1_a
Entries 723
Mean 0.9834
RMS 0.1278
Underflow 0
Overflow 0
Fast_PID_f1_a
Entries 724
Mean 0.982
RMS 0.1328
Underflow 0
Overflow 0
Fast_v2_PID_f1_a
Entries 724
Mean 0.9793
RMS 0.1424
Underflow 0
Overflow 0
Strip ratio bit (all)

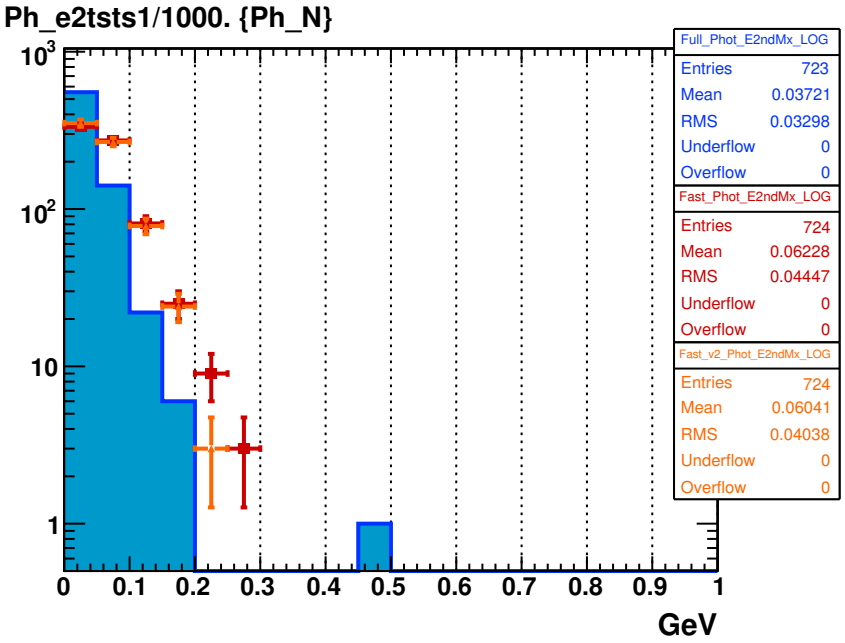

(Ph_IsEM&0x100)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x100)==0x100}
Full_PID_f1
Entries 673
Mean 0.9941
RMS 0.07686
Underflow 0
Overflow 0
Fast_PID_f1
Entries 634
Mean 0.989
RMS 0.1045
Underflow 0
Overflow 0
Fast_v2_PID_f1
Entries 636
Mean 0.9874
RMS 0.1114
Underflow 0
Overflow 0
Strip ratio bit

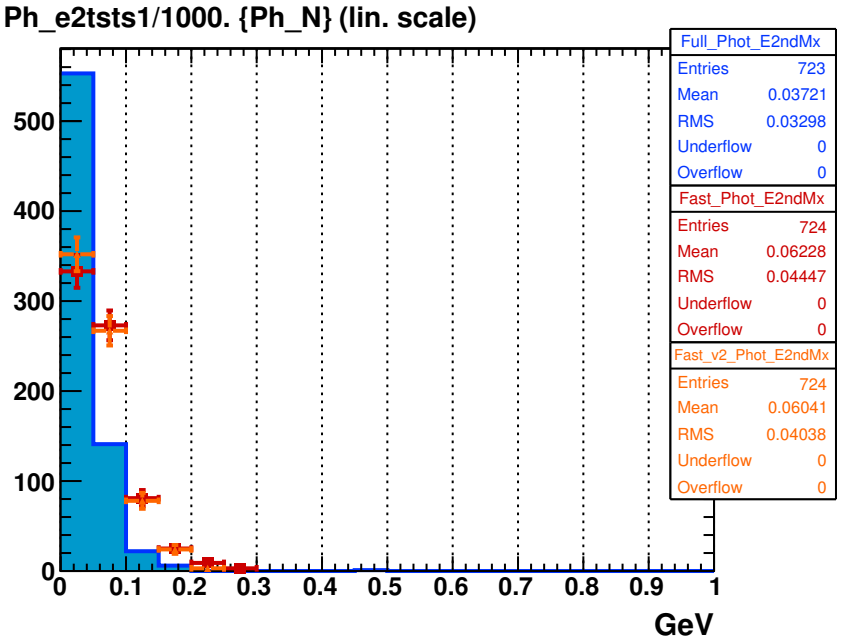

Ph_f1 {Ph_N}
Full_Phot_fE_S1_LOG
Entries 723
Mean 0.1966
RMS 0.09417
Underflow 0
Overflow 0
Fast_Phot_fE_S1_LOG
Entries 724
Mean 0.1958
RMS 0.09453
Underflow 0
Overflow 0
Fast_v2_Phot_fE_S1_LOG
Entries 724
Mean 0.1933
RMS 0.09459
Underflow 0
Overflow 0
energy fraction

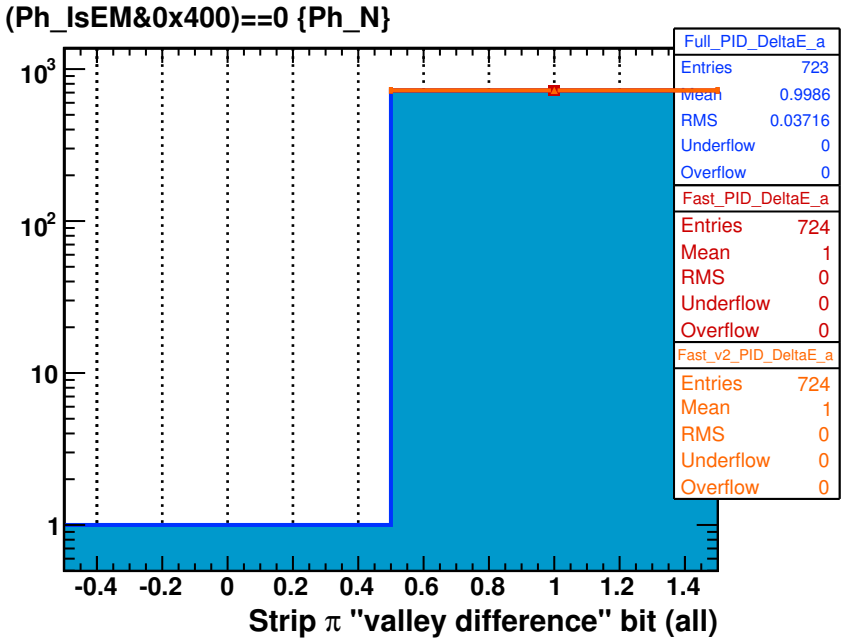

Ph_f1 {Ph_N} (lin. scale)
Full_Phot_fE_S1
Entries 723
Mean 0.1966
RMS 0.09417
Underflow 0
Overflow 0
Fast_Phot_fE_S1
Entries 724
Mean 0.1958
RMS 0.09453
Underflow 0
Overflow 0
Fast_v2_Phot_fE_S1
Entries 724
Mean 0.1933
RMS 0.09459
Underflow 0
Overflow 0
energy fraction

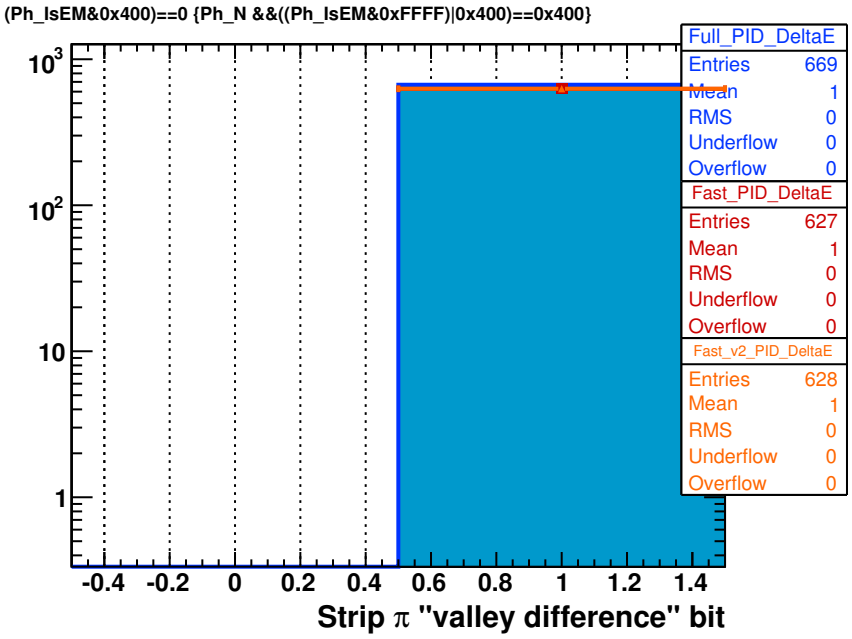

(Ph_IsEM&0x200)==0 {Ph_N}
Full_PID_eMax2_a
Entries 723
Mean 0.9986
RMS 0.03716
Underflow 0
Overflow 0
Fast_PID_eMax2_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_eMax2_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Strip π^0 second max bit (all)

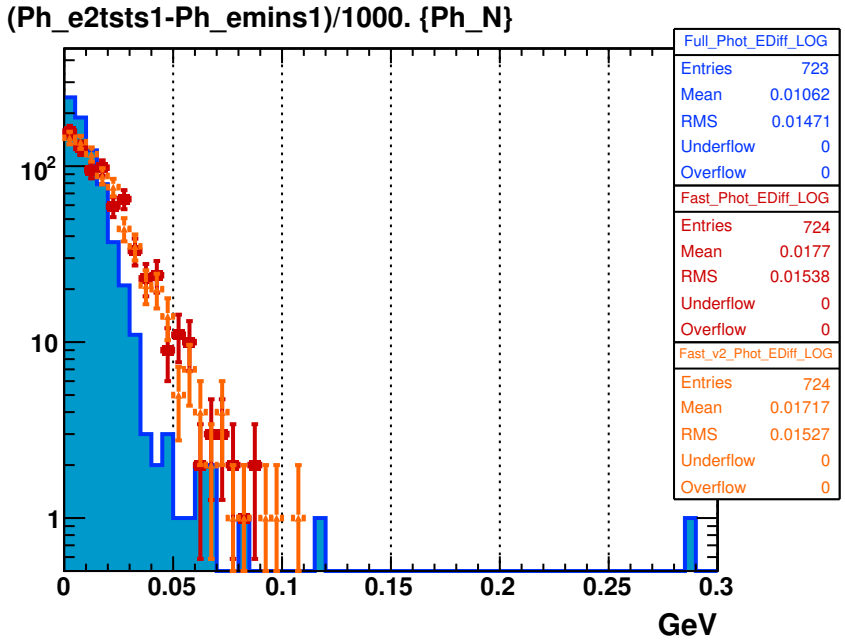

(Ph_IsEM&0x200)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x200)==0x200}
Full_PID_eMax2
Entries 669
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_eMax2
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_eMax2
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
Strip π^0 second max bit

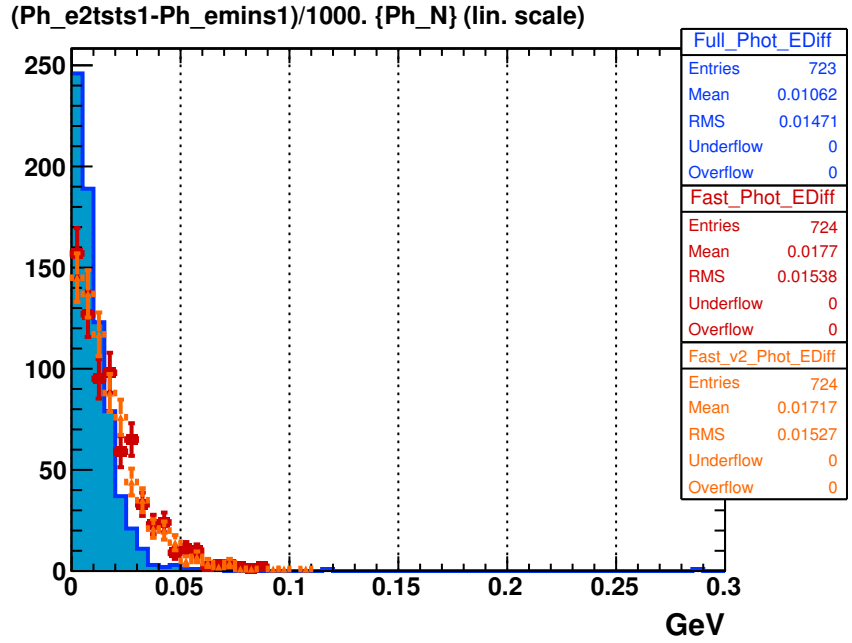

Ph_e2tsts1/1000. {Ph_N}
Full_Phot_E2ndMx_LOG
Entries 723
Mean 0.03721
RMS 0.03298
Underflow 0
Overflow 0
Fast_Phot_E2ndMx_LOG
Entries 724
Mean 0.06228
RMS 0.04447
Underflow 0
Overflow 0
Fast_v2_Phot_E2ndMx_LOG
Entries 724
Mean 0.06041
RMS 0.04038
Underflow 0
Overflow 0
GeV

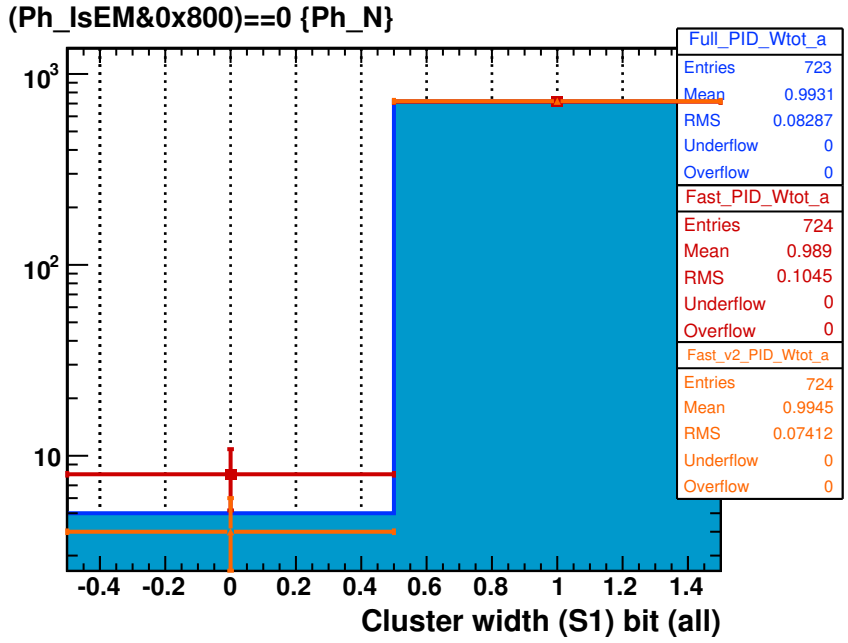

Ph_e2tsts1/1000. {Ph_N} (lin. scale)
Full_Phot_E2ndMx
Entries 723
Mean 0.03721
RMS 0.03298
Underflow 0
Overflow 0
Fast_Phot_E2ndMx
Entries 724
Mean 0.06228
RMS 0.04447
Underflow 0
Overflow 0
Fast_v2_Phot_E2ndMx
Entries 724
Mean 0.06041
RMS 0.04038
Underflow 0
Overflow 0
GeV

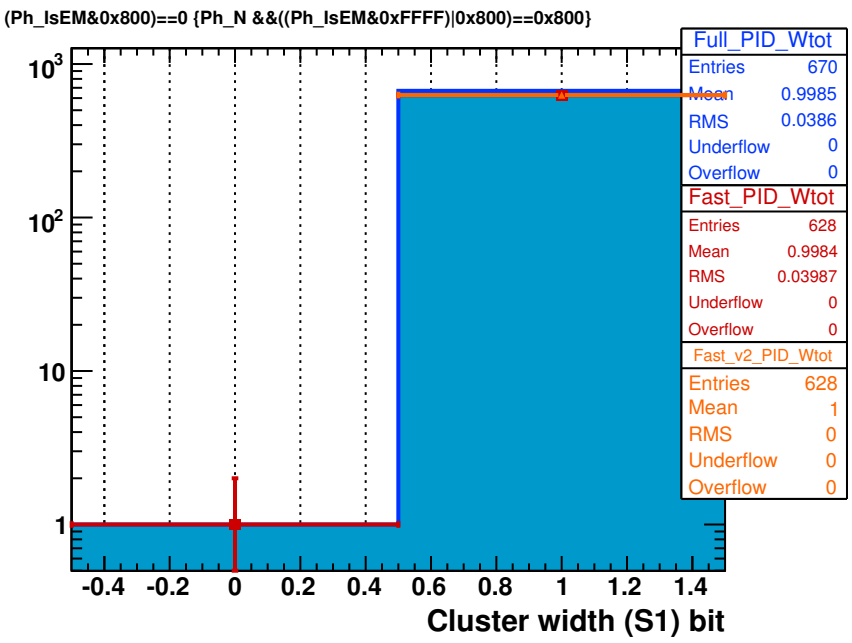

(Ph_IsEM&0x400)==0 {Ph_N}
Full_PID_DeltaE_a
Entries 723
Mean 0.9986
RMS 0.03716
Underflow 0
Overflow 0
Fast_PID_DeltaE_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_DeltaE_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Strip π "valley difference" bit (all)

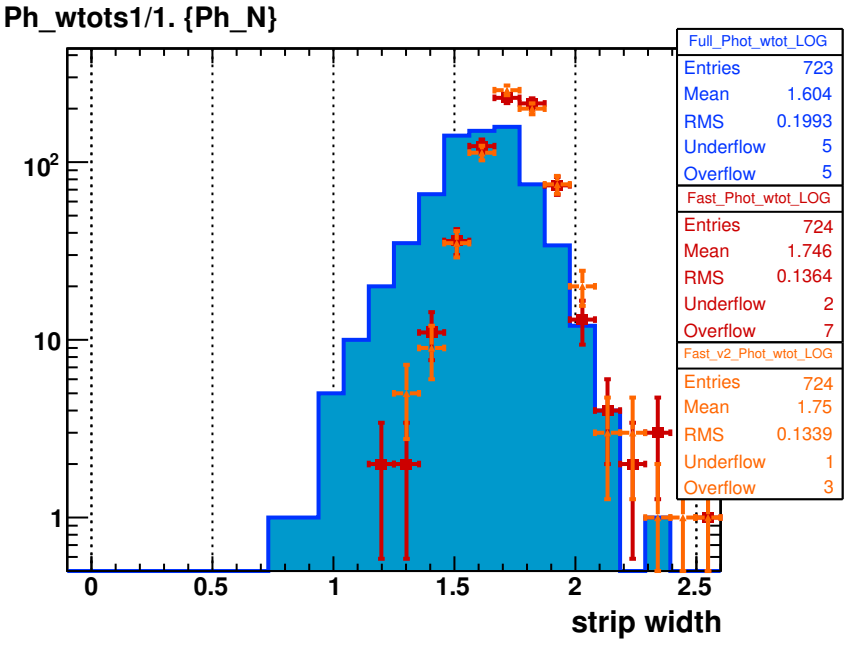

(Ph_IsEM&0x400)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x400)==0x400}
Full_PID_DeltaE
Entries 669
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_DeltaE
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_DeltaE
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
Strip π "valley difference" bit

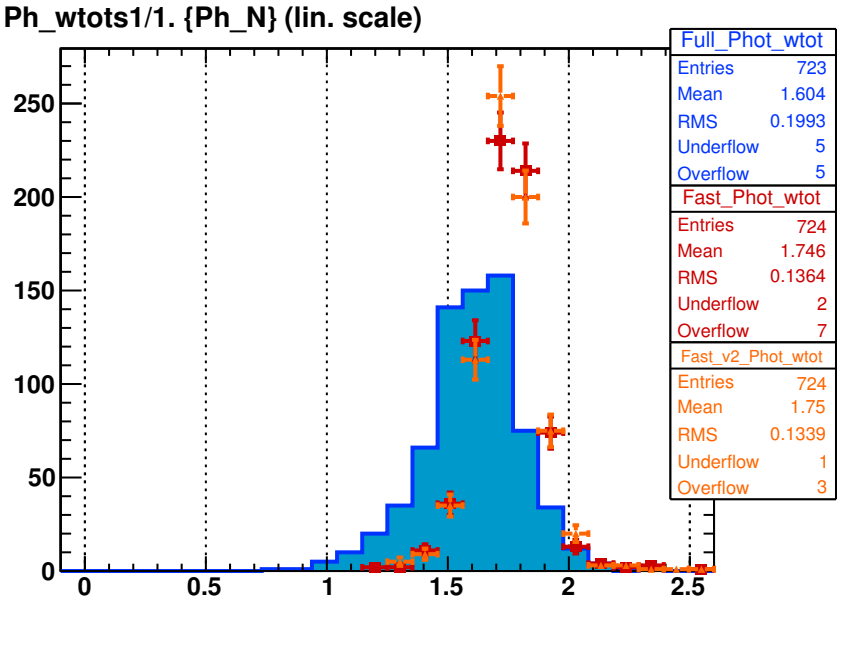

(Ph_e2tsts1-Ph_emins1)/1000. {Ph_N}
Full_Phot_EDiff_LOG
Entries 723
Mean 0.01062
RMS 0.01471
Underflow 0
Overflow 0
Fast_Phot_EDiff_LOG
Entries 724
Mean 0.0177
RMS 0.01538
Underflow 0
Overflow 0
Fast_v2_Phot_EDiff_LOG
Entries 724
Mean 0.01717
RMS 0.01527
Underflow 0
Overflow 0
GeV

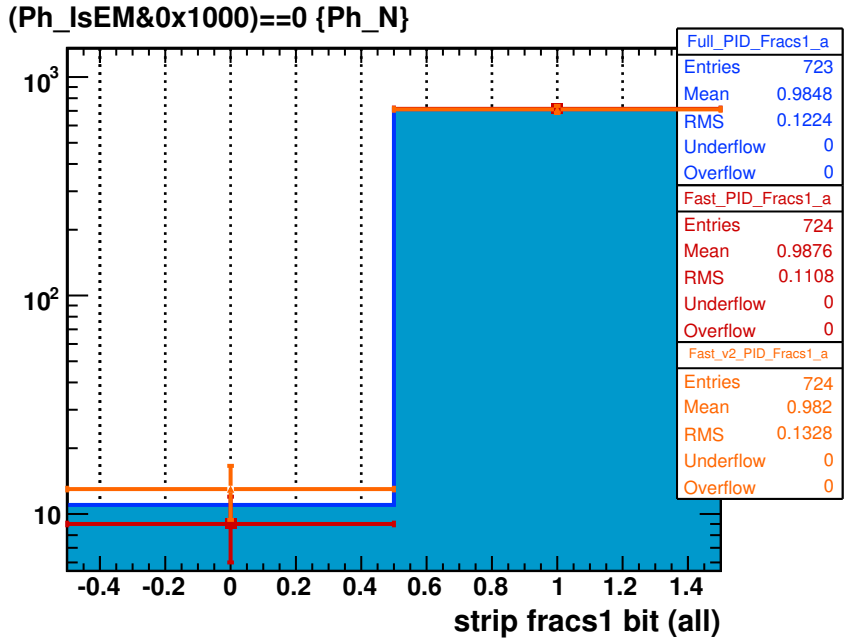

(Ph_e2tsts1-Ph_emins1)/1000. {Ph_N} (lin. scale)
Full_Phot_EDiff
Entries 723
Mean 0.01062
RMS 0.01471
Underflow 0
Overflow 0
Fast_Phot_EDiff
Entries 724
Mean 0.0177
RMS 0.01538
Underflow 0
Overflow 0
Fast_v2_Phot_EDiff
Entries 724
Mean 0.01717
RMS 0.01527
Underflow 0
Overflow 0
GeV

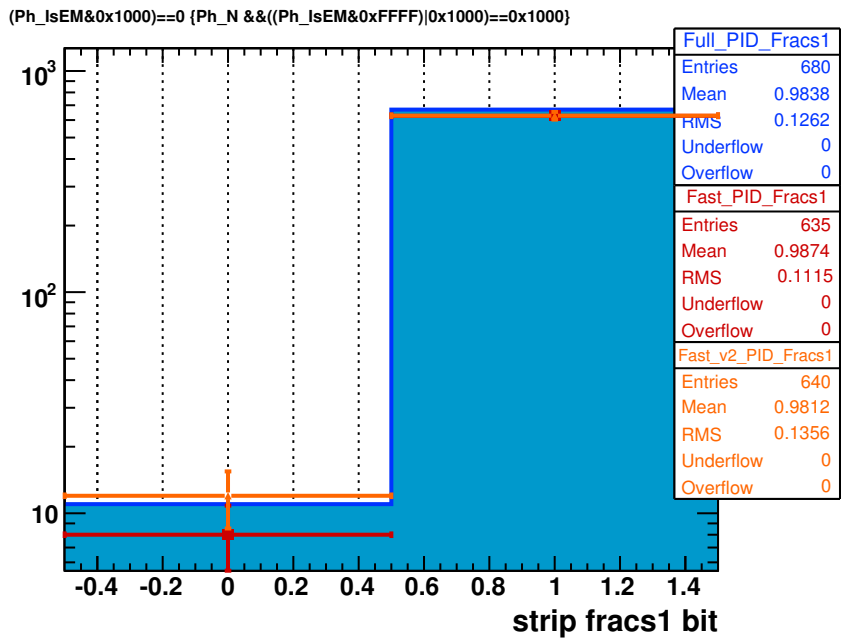

(Ph_IsEM&0x800)==0 {Ph_N}
Full_PID_Wtot_a
Entries 723
Mean 0.9931
RMS 0.08287
Underflow 0
Overflow 0
Fast_PID_Wtot_a
Entries 724
Mean 0.989
RMS 0.1045
Underflow 0
Overflow 0
Fast_v2_PID_Wtot_a
Entries 724
Mean 0.9945
RMS 0.07412
Underflow 0
Overflow 0
Cluster width (S1) bit (all)

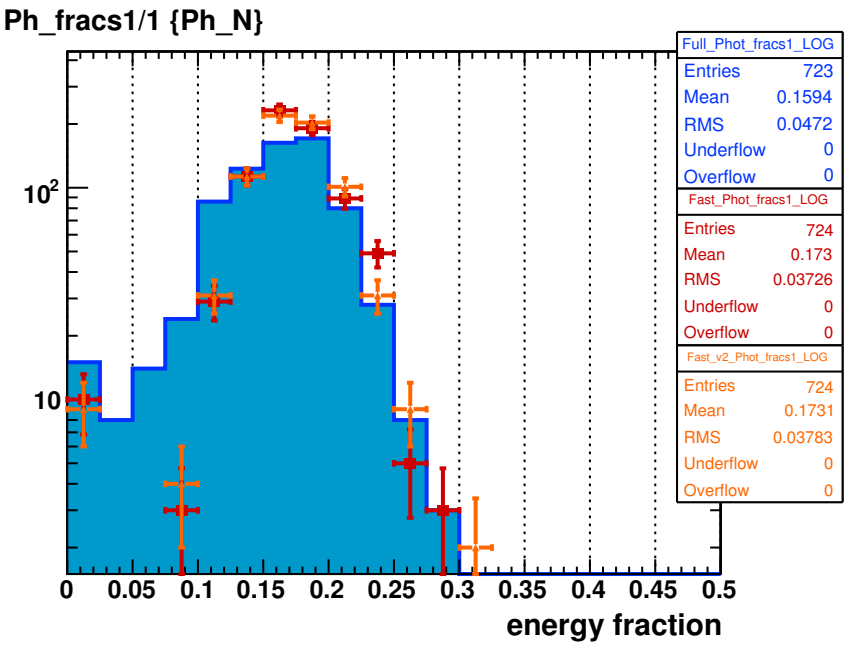

(Ph_IsEM&0x800)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x800)==0x800}
Full_PID_Wtot
Entries 670
Mean 0.9985
RMS 0.0386
Underflow 0
Overflow 0
Fast_PID_Wtot
Entries 628
Mean 0.9984
RMS 0.03987
Underflow 0
Overflow 0
Fast_v2_PID_Wtot
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
Cluster width (S1) bit

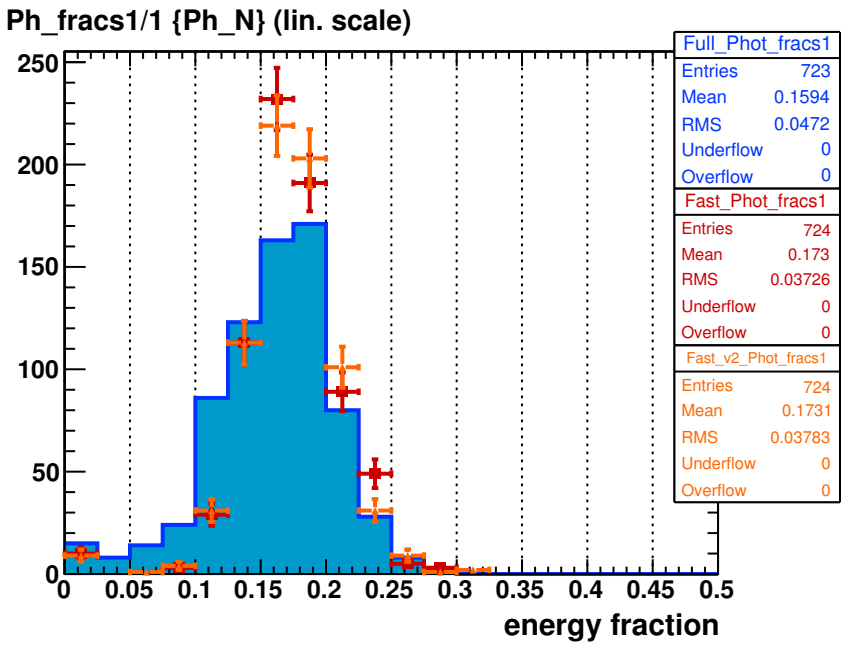

Ph_wtots1/1. {Ph_N}
Full_Phot_wtot_LOG
Entries 723
Mean 1.604
RMS 0.1993
Underflow 5
Overflow 5
Fast_Phot_wtot_LOG
Entries 724
Mean 1.746
RMS 0.1364
Underflow 2
Overflow 7
Fast_v2_Phot_wtot_LOG
Entries 724
Mean 1.75
RMS 0.1339
Underflow 1
Overflow 3
strip width

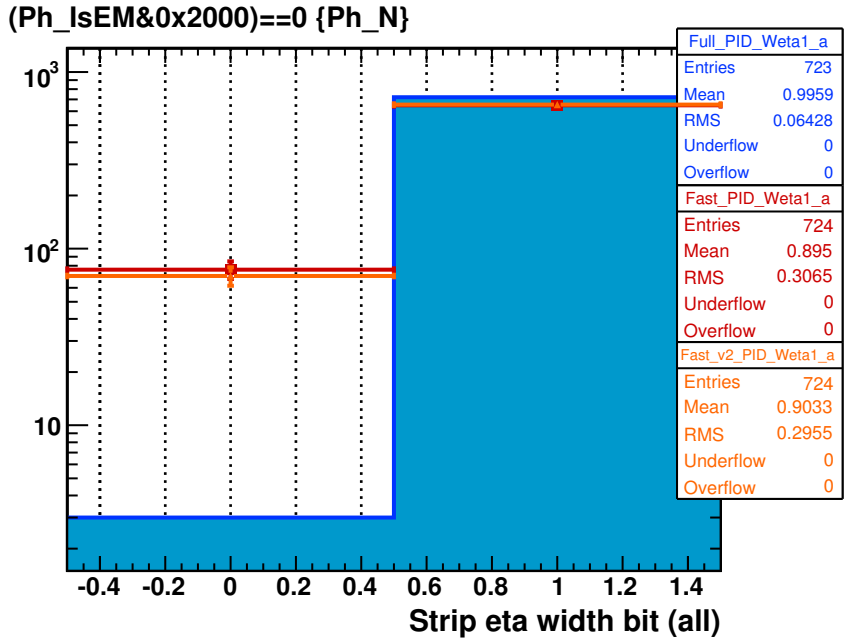

Ph_wtots1/1. {Ph_N} (lin. scale)
Full_Phot_wtot
Entries 723
Mean 1.604
RMS 0.1993
Underflow 5
Overflow 5
Fast_Phot_wtot
Entries 724
Mean 1.746
RMS 0.1364
Underflow 2
Overflow 7
Fast_v2_Phot_wtot
Entries 724
Mean 1.75
RMS 0.1339
Underflow 1
Overflow 3

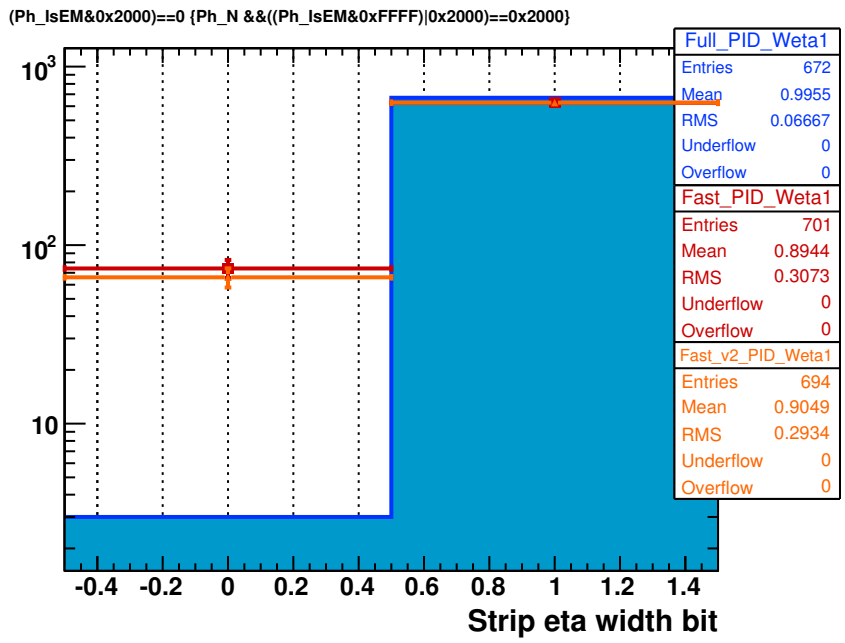

(Ph_IsEM&0x1000)==0 {Ph_N}
Full_PID_Fracs1_a
Entries 723
Mean 0.9848
RMS 0.1224
Underflow 0
Overflow 0
Fast_PID_Fracs1_a
Entries 724
Mean 0.9876
RMS 0.1108
Underflow 0
Overflow 0
Fast_v2_PID_Fracs1_a
Entries 724
Mean 0.982
RMS 0.1328
Underflow 0
Overflow 0
strip fracs1 bit (all)

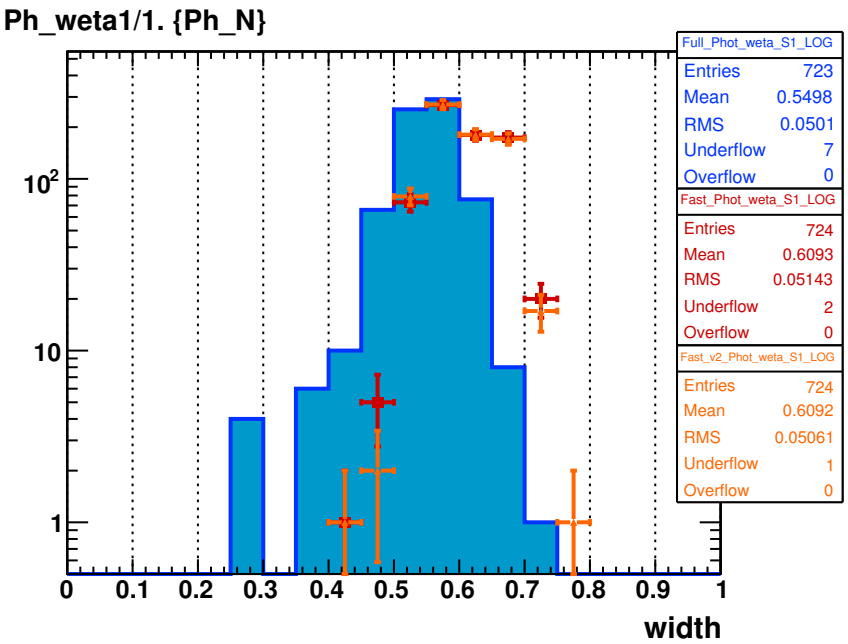

(Ph_IsEM&0x1000)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x1000)==0x1000}
Full_PID_Fracs1
Entries 680
Mean 0.9838
RMS 0.1262
Underflow 0
Overflow 0
Fast_PID_Fracs1
Entries 635
Mean 0.9874
RMS 0.1115
Underflow 0
Overflow 0
Fast_v2_PID_Fracs1
Entries 640
Mean 0.9812
RMS 0.1356
Underflow 0
Overflow 0
strip fracs1 bit

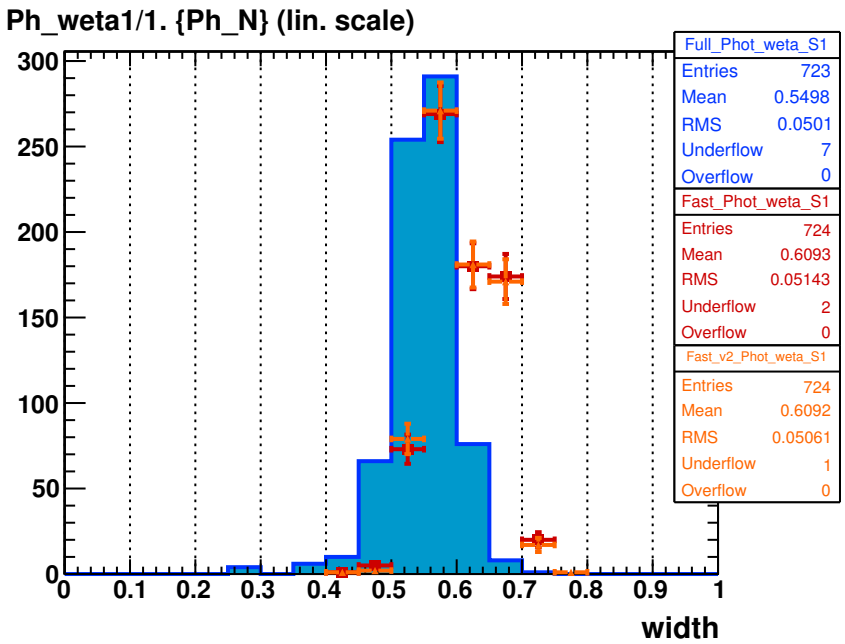

Ph_fracs1/1 {Ph_N}
Full_Phot_fracs1_LOG
Entries 723
Mean 0.1594
RMS 0.0472
Underflow 0
Overflow 0
Fast_Phot_fracs1_LOG
Entries 724
Mean 0.173
RMS 0.03726
Underflow 0
Overflow 0
Fast_v2_Phot_fracs1_LOG
Entries 724
Mean 0.1731
RMS 0.03783
Underflow 0
Overflow 0
energy fraction

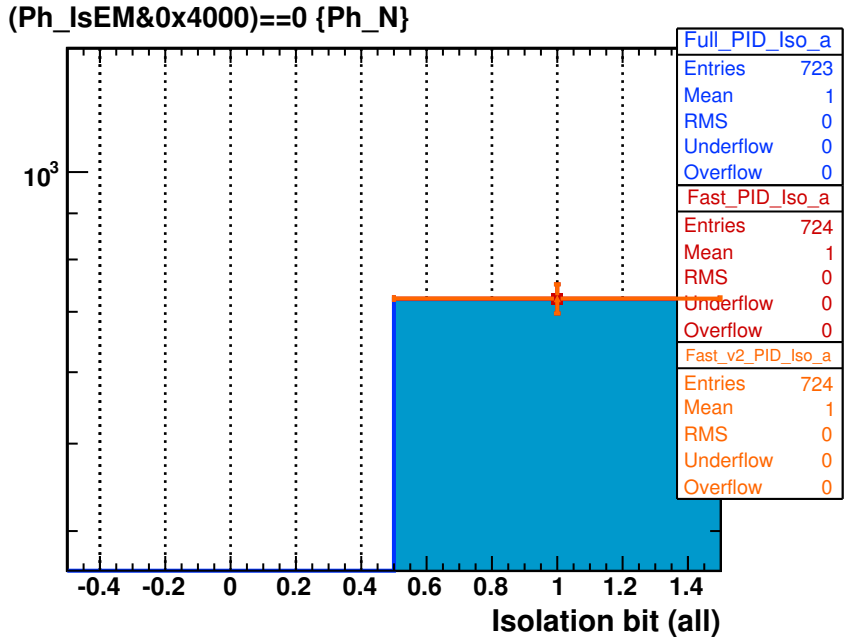

Ph_fracs1/1 {Ph_N} (lin. scale)
Full_Phot_fracs1
Entries 723
Mean 0.1594
RMS 0.0472
Underflow 0
Overflow 0
Fast_Phot_fracs1
Entries 724
Mean 0.173
RMS 0.03726
Underflow 0
Overflow 0
Fast_v2_Phot_fracs1
Entries 724
Mean 0.1731
RMS 0.03783
Underflow 0
Overflow 0
energy fraction

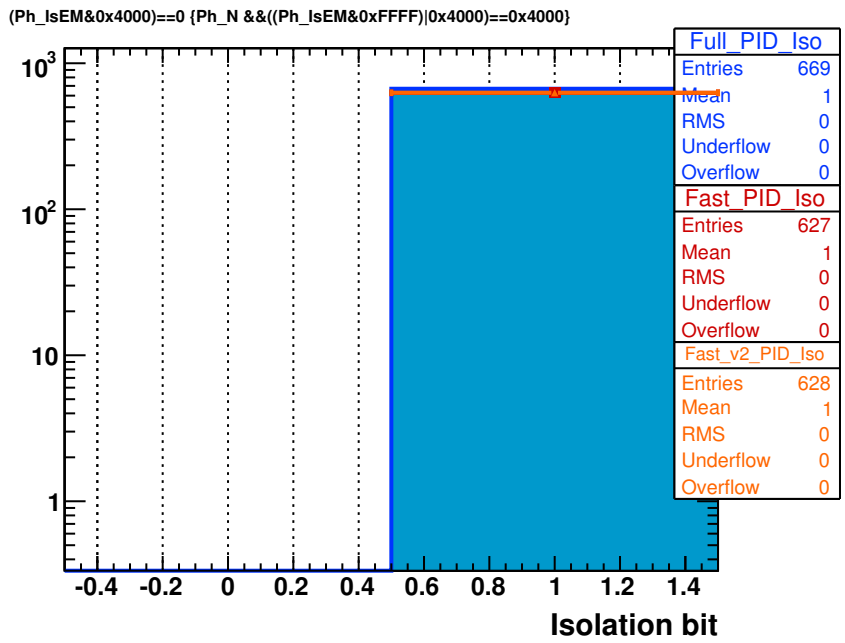

(Ph_IsEM&0x2000)==0 {Ph_N}
Full_PID_Weta1_a
Entries 723
Mean 0.9959
RMS 0.06428
Underflow 0
Overflow 0
Fast_PID_Weta1_a
Entries 724
Mean 0.895
RMS 0.3065
Underflow 0
Overflow 0
Fast_v2_PID_Weta1_a
Entries 724
Mean 0.9033
RMS 0.2955
Underflow 0
Overflow 0
Strip eta width bit (all)

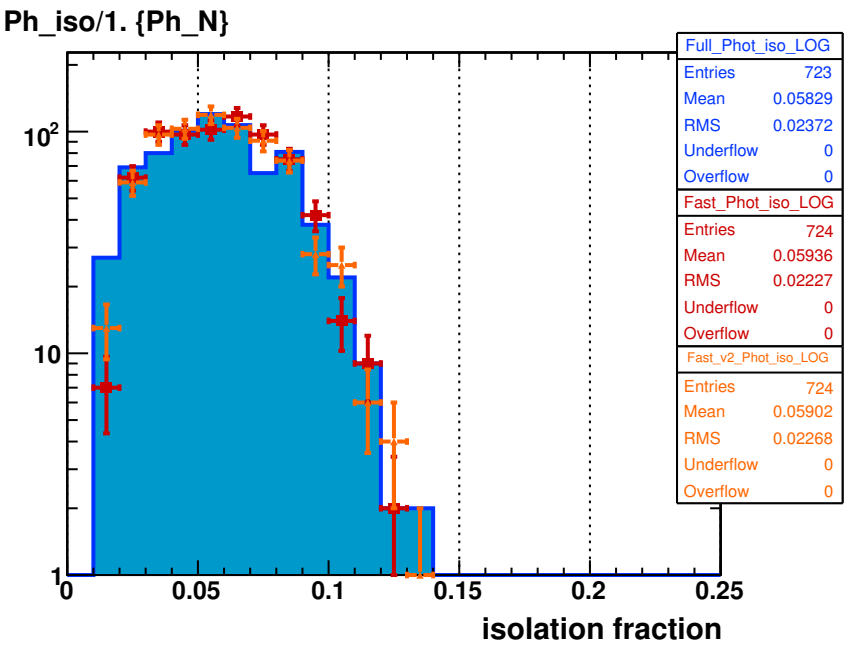

(Ph_IsEM&0x2000)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x2000)==0x2000}
Full_PID_Weta1
Entries 672
Mean 0.9955
RMS 0.06667
Underflow 0
Overflow 0
Fast_PID_Weta1
Entries 701
Mean 0.8944
RMS 0.3073
Underflow 0
Overflow 0
Fast_v2_PID_Weta1
Entries 694
Mean 0.9049
RMS 0.2934
Underflow 0
Overflow 0
Strip eta width bit

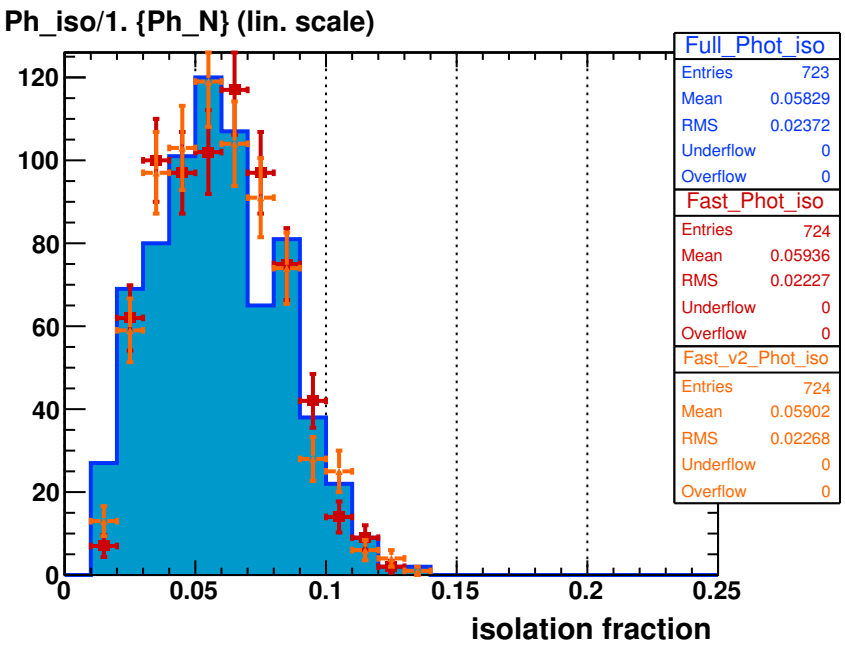
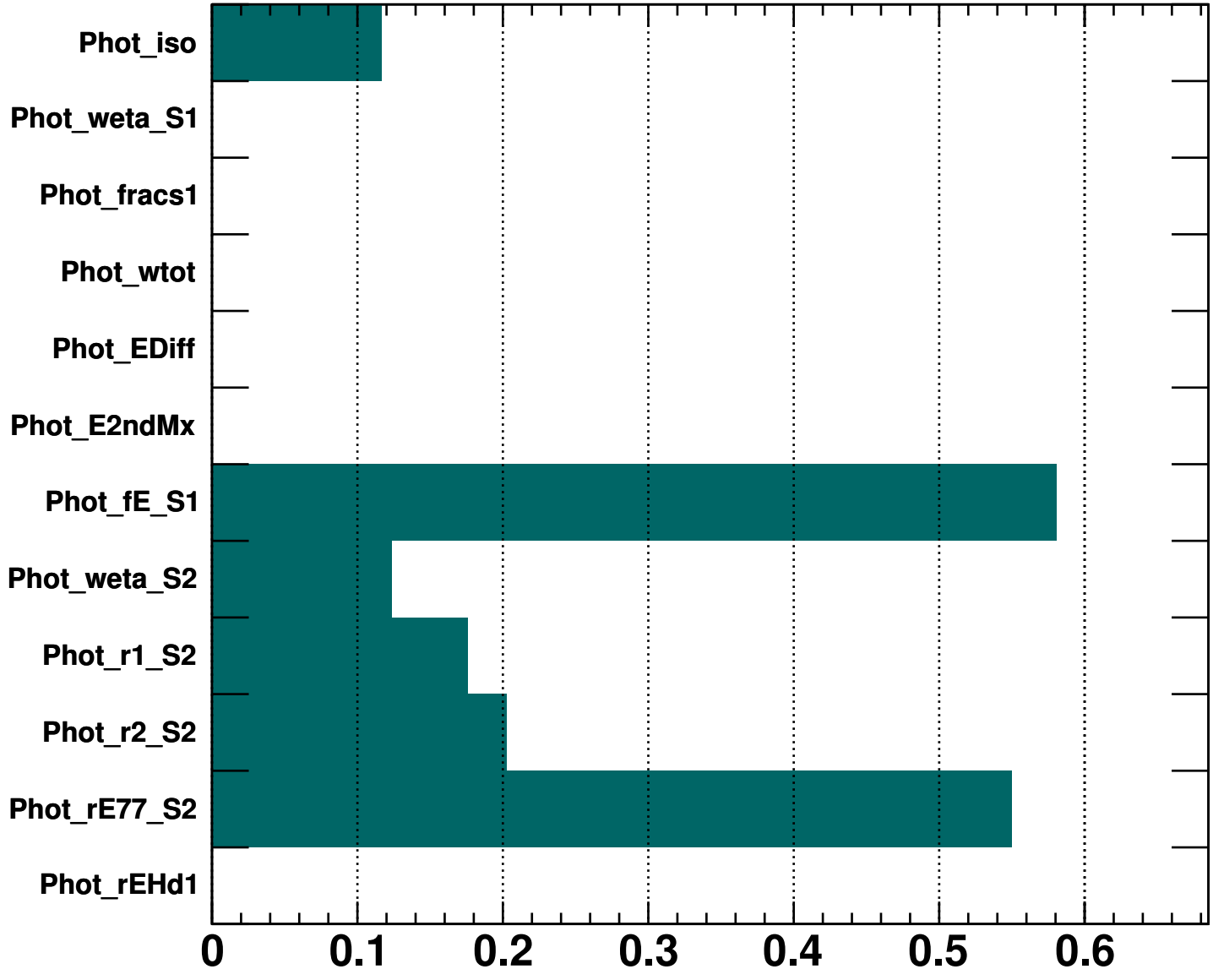

Ph_weta1/1. {Ph_N}
Full_Phot_weta_S1_LOG
Entries 723
Mean 0.5498
RMS 0.0501
Underflow 7
Overflow 0
Fast_Phot_weta_S1_LOG
Entries 724
Mean 0.6093
RMS 0.05143
Underflow 2
Overflow 0
Fast_v2_Phot_weta_S1_LOG
Entries 724
Mean 0.6092
RMS 0.05061
Underflow 1
Overflow 0
width


Ph_weta1/1. {Ph_N} (lin. scale)
Full_Phot_weta_S1
Entries 723
Mean 0.5498
RMS 0.0501
Underflow 7
Overflow 0
Fast_Phot_weta_S1
Entries 724
Mean 0.6093
RMS 0.05143
Underflow 2
Overflow 0
Fast_v2_Phot_weta_S1
Entries 724
Mean 0.6092
RMS 0.05061
Underflow 1
Overflow 0
width


(Ph_IsEM&0x4000)==0 {Ph_N}
Full_PID_Iso_a
Entries 723
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_Iso_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_Iso_a
Entries 724
Mean 1
RMS 0
Underflow 0
Overflow 0
Isolation bit (all)


(Ph_IsEM&0x4000)==0 {Ph_N &&((Ph_IsEM&0xFFFF)|0x4000)==0x4000}
Full_PID_Iso
Entries 669
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_PID_Iso
Entries 627
Mean 1
RMS 0
Underflow 0
Overflow 0
Fast_v2_PID_Iso
Entries 628
Mean 1
RMS 0
Underflow 0
Overflow 0
Isolation bit


Ph_iso/1. {Ph_N}
Full_Phot_iso_LOG
Entries 723
Mean 0.05829
RMS 0.02372
Underflow 0
Overflow 0
Fast_Phot_iso_LOG
Entries 724
Mean 0.05936
RMS 0.02227
Underflow 0
Overflow 0
Fast_v2_Phot_iso_LOG
Entries 724
Mean 0.05902
RMS 0.02268
Underflow 0
Overflow 0
isolation fraction


Ph_iso/1. {Ph_N} (lin. scale)
Full_Phot_iso
Entries 723
Mean 0.05829
RMS 0.02372
Underflow 0
Overflow 0
Fast_Phot_iso
Entries 724
Mean 0.05936
RMS 0.02227
Underflow 0
Overflow 0
Fast_v2_Phot_iso
Entries 724
Mean 0.05902
RMS 0.02268
Underflow 0
Overflow 0
isolation fraction

χ^2 for distributions