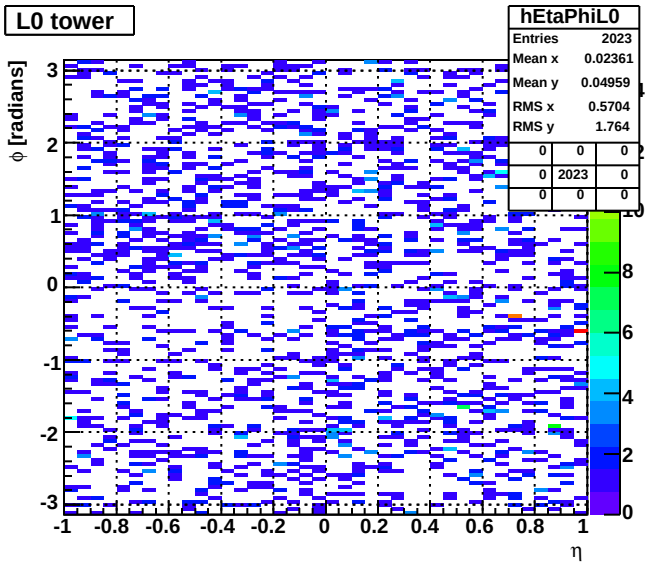
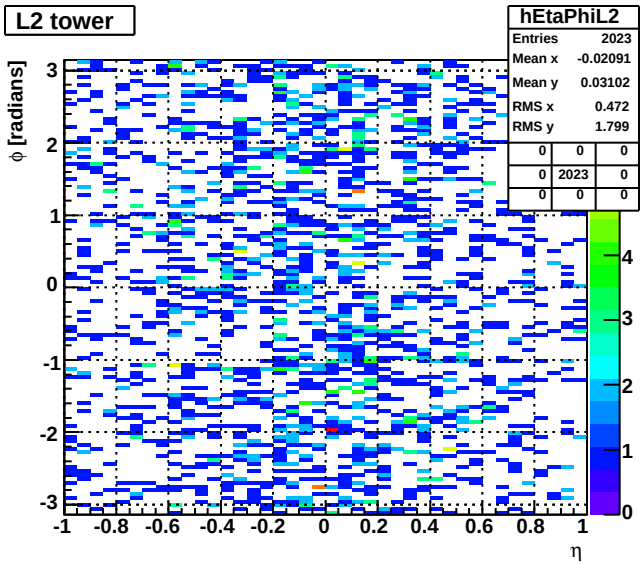
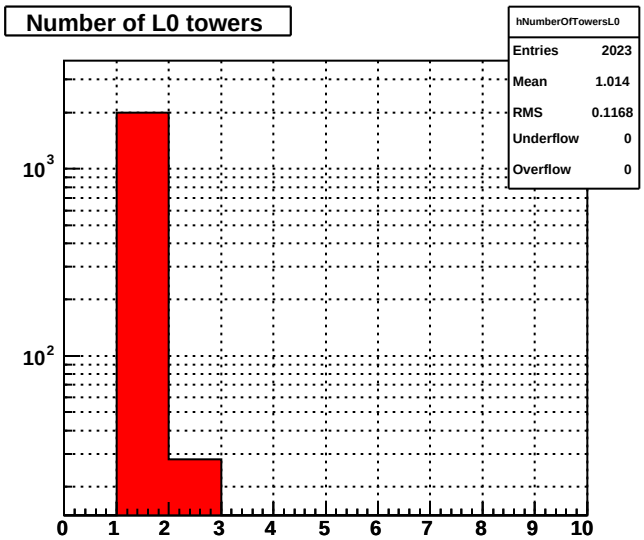
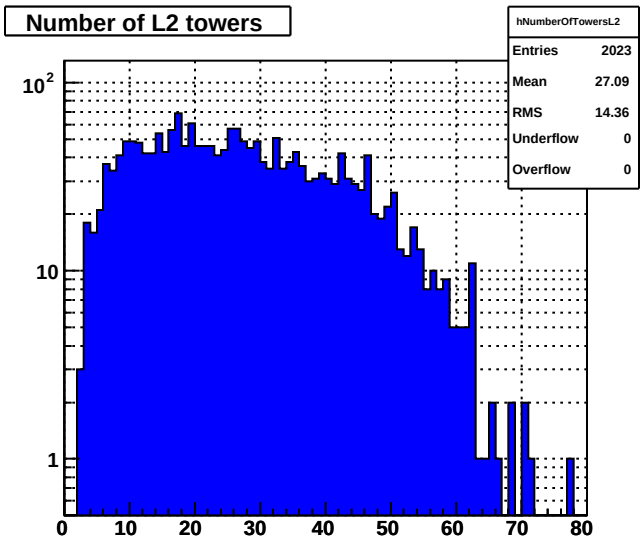
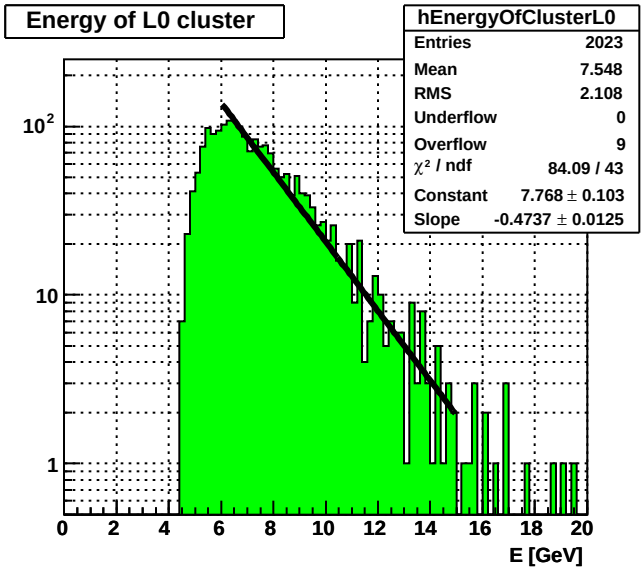
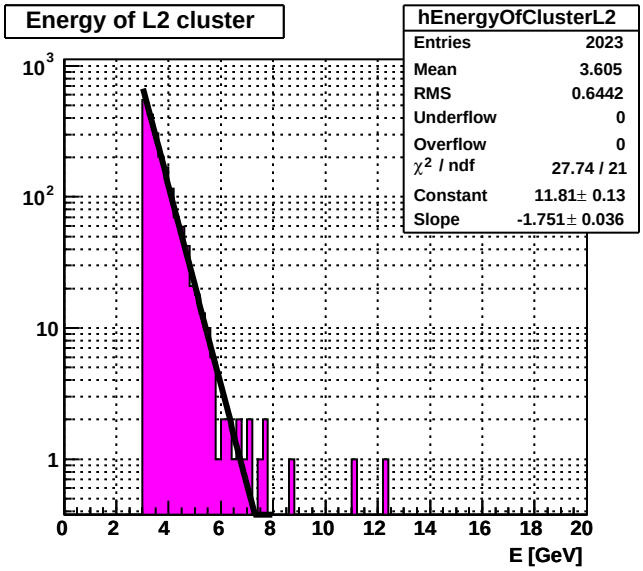

L0 tower
hEtaPhiL0
Entries 2023
Mean x 0.02361
Mean y 0.04959
RMS x 0.5704
RMS y 1.764
φ [radians]
η

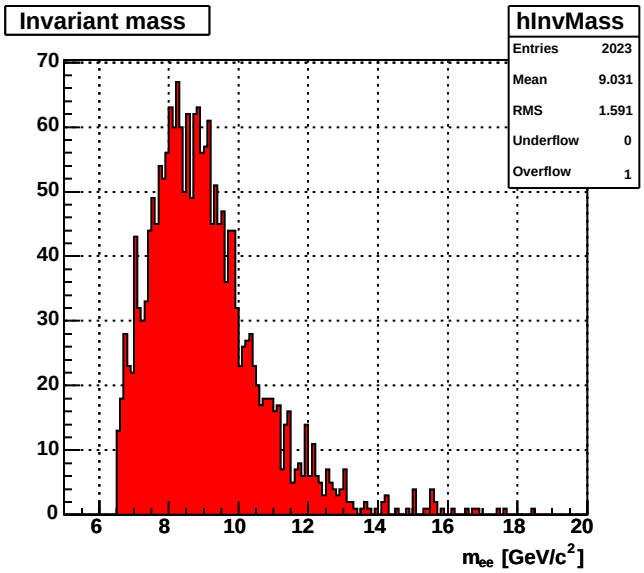

L2 tower
hEtaPhiL2
Entries 2023
Mean x -0.02091
Mean y 0.03102
RMS x 0.472
RMS y 1.799
φ [radians]
η

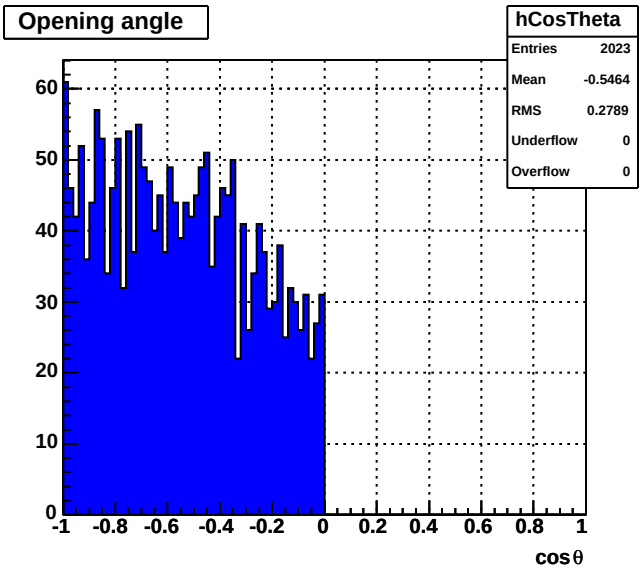

Number of L0 towers
hNumberOfTowersL0
Entries 2023
Mean 1.014
RMS 0.1168
Underflow 0
Overflow 0

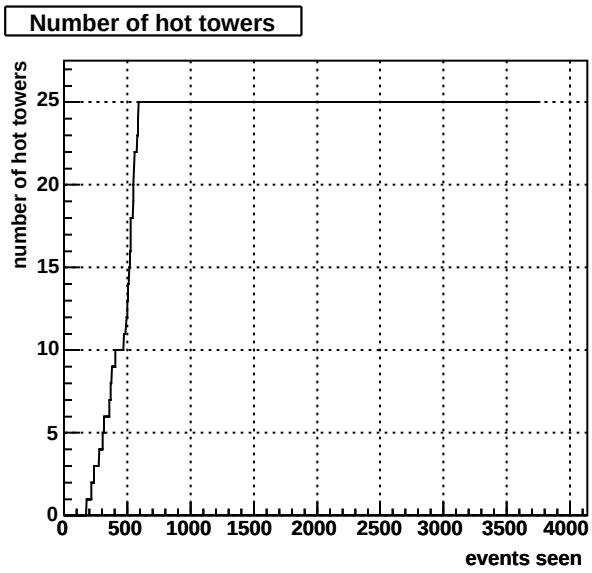

Number of L2 towers
hNumberOfTowersL2
Entries 2023
Mean 27.09
RMS 14.36
Underflow 0
Overflow 0

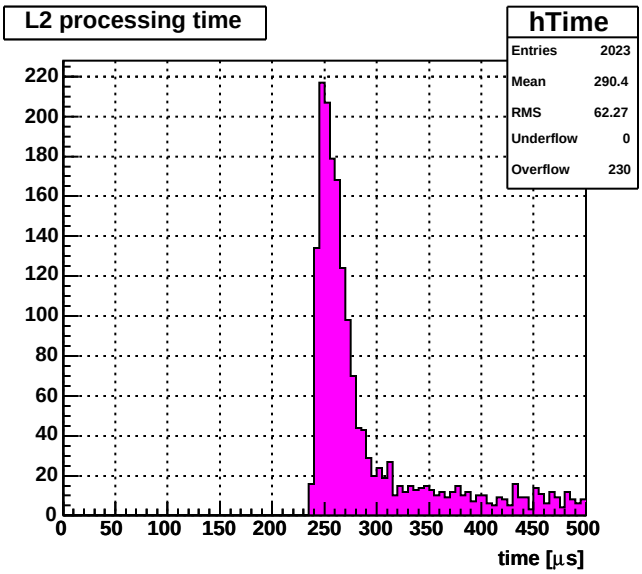

Energy of L0 cluster
hEnergyOfClusterL0
Entries 2023
Mean 7.548
RMS 2.108
Underflow 0
Overflow 9
χ² / ndf 84.09 / 43
Constant 7.768 ± 0.103
Slope -0.4737 ± 0.0125
E [GeV]

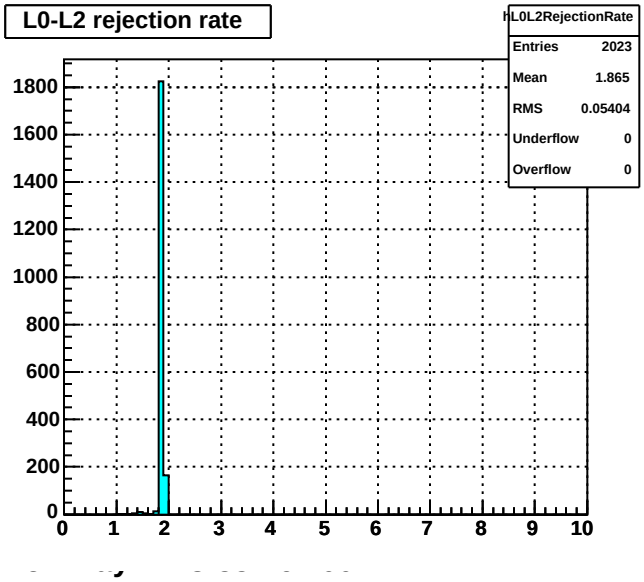

Energy of L2 cluster
hEnergyOfClusterL2
Entries 2023
Mean 3.605
RMS 0.6442
Underflow 0
Overflow 0
χ² / ndf 27.74 / 21
Constant 11.81± 0.13
Slope -1.751± 0.036
E [GeV]

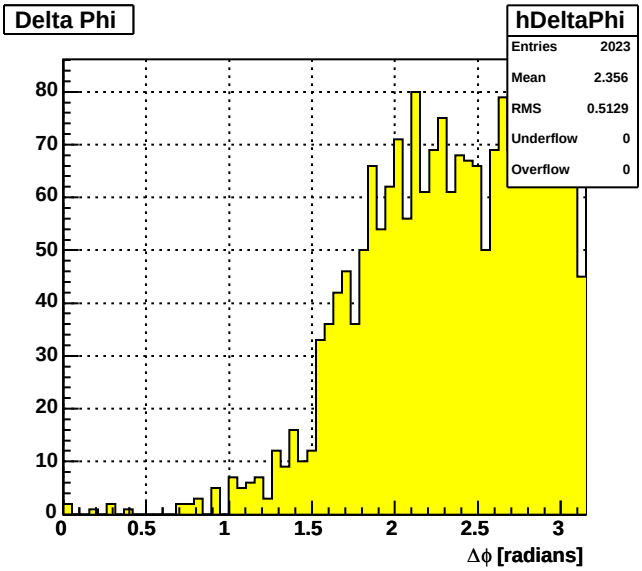

Invariant mass
hInvMass
Entries 2023
Mean 9.031
RMS 1.591
Underflow 0
Overflow 1
m_{ee} [GeV/c^2]

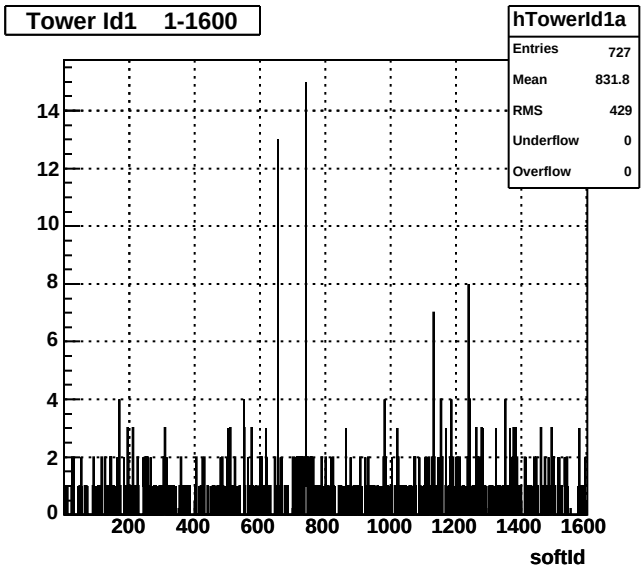

Opening angle
hCosTheta
Entries 2023
Mean -0.5464
RMS 0.2789
Underflow 0
Overflow 0
cos θ

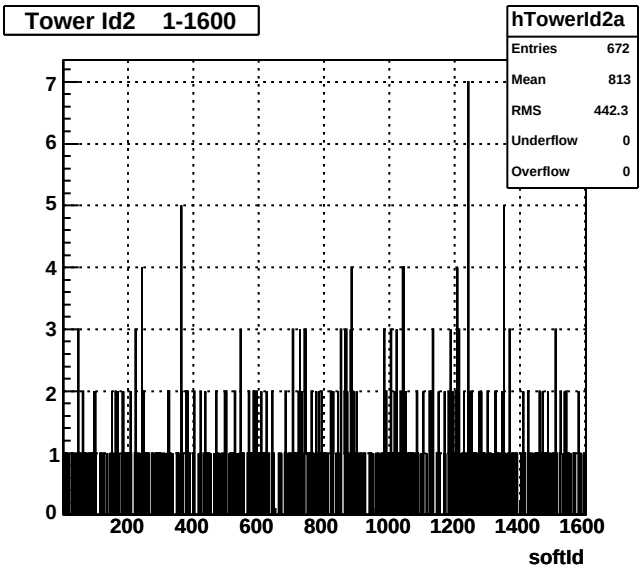

Number of hot towers
number of hot towers
events seen

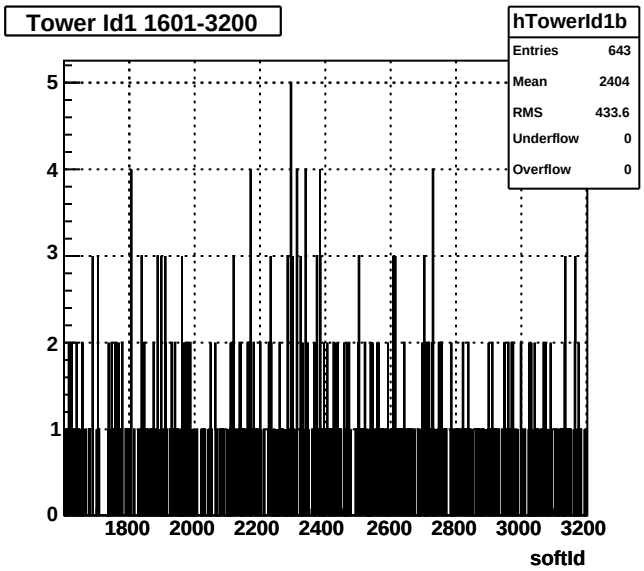

L2 processing time
hTime
Entries 2023
Mean 290.4
RMS 62.27
Underflow 0
Overflow 230
time [μs]

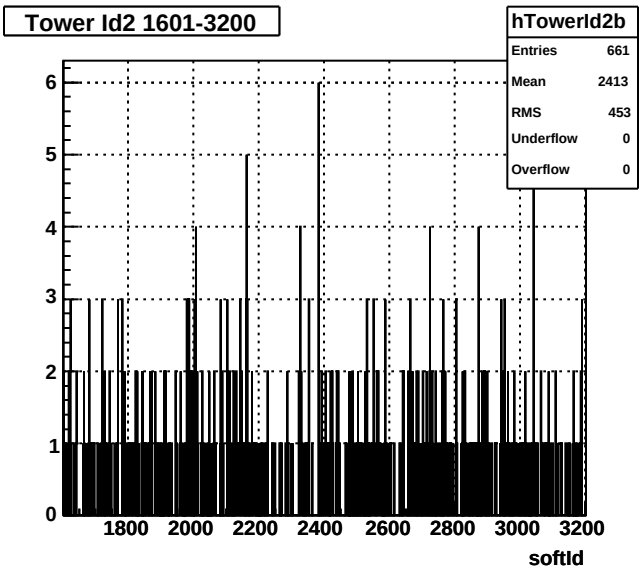

L0-L2 rejection rate
hL0L2RejectionRate
Entries 2023
Mean 1.865
RMS 0.05404
Underflow 0
Overflow 0

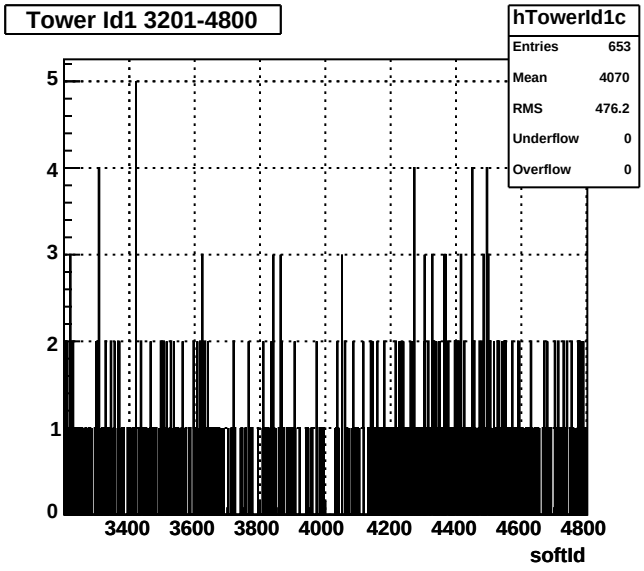

Delta Phi
hDeltaPhi
Entries 2023
Mean 2.356
RMS 0.5129
Underflow 0
Overflow 0
Δφ [radians]

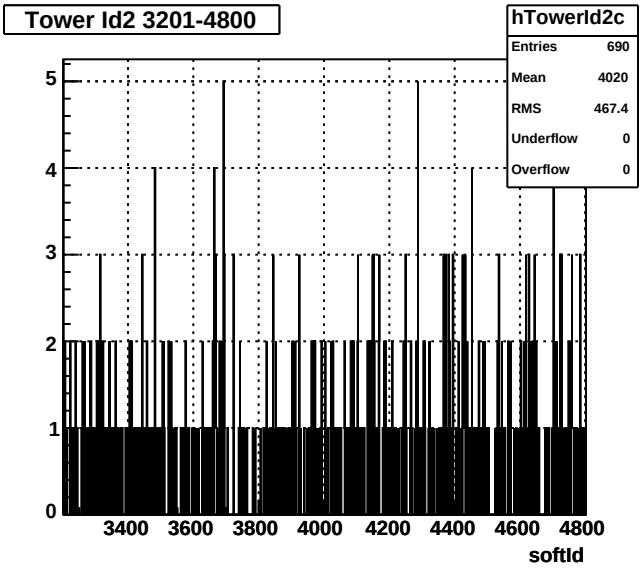

Tower Id1 1-1600
hTowerId1a
Entries 727
Mean 831.8
RMS 429
Underflow 0
Overflow 0
softId

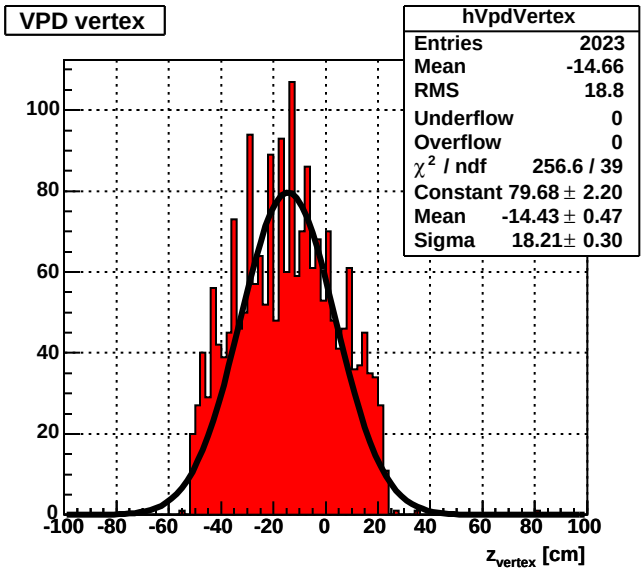

Tower Id2 1-1600
hTowerId2a
Entries 672
Mean 813
RMS 442.3
Underflow 0
Overflow 0
softId

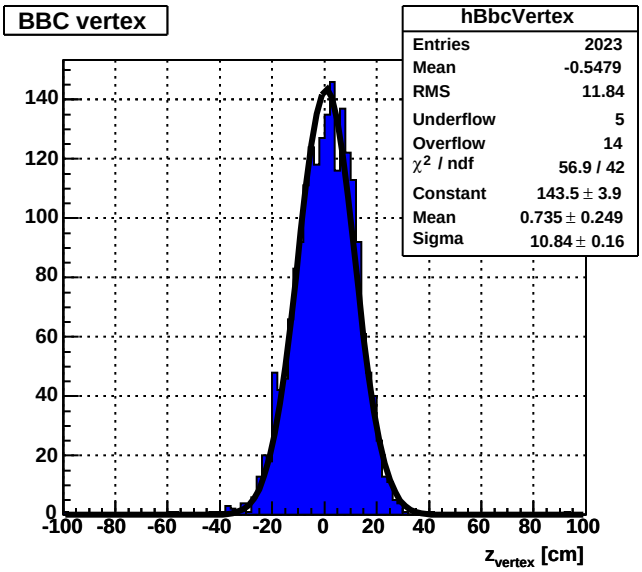

Tower Id1 1601-3200
hTowerId1b
Entries 643
Mean 2404
RMS 433.6
Underflow 0
Overflow 0
softId

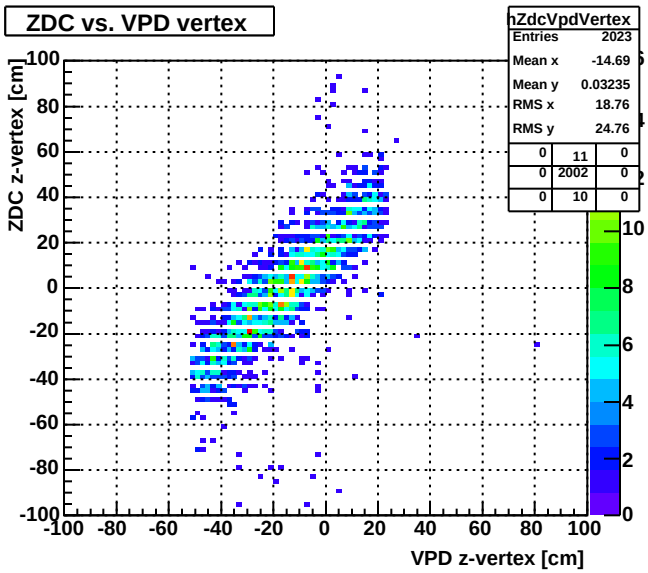

Tower Id2 1601-3200
hTowerId2b
Entries 661
Mean 2413
RMS 453
Underflow 0
Overflow 0
softId

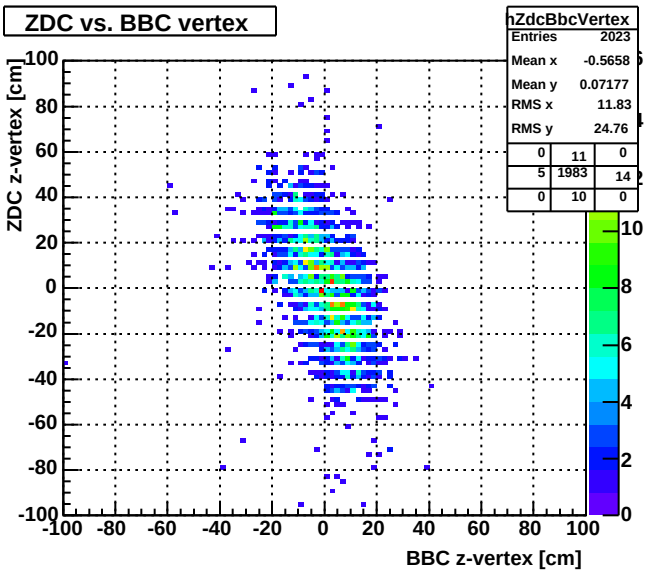

Tower Id1 3201-4800
hTowerId1c
Entries 653
Mean 4070
RMS 476.2
Underflow 0
Overflow 0
softId

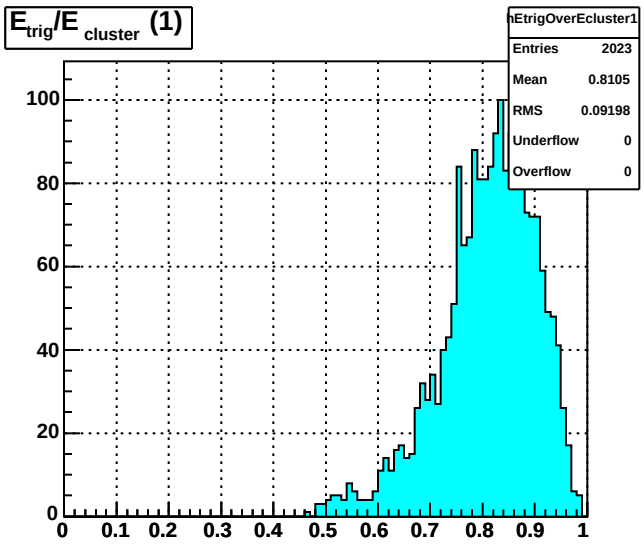

Tower Id2 3201-4800
hTowerId2c
Entries 690
Mean 4020
RMS 467.4
Underflow 0
Overflow 0
softId

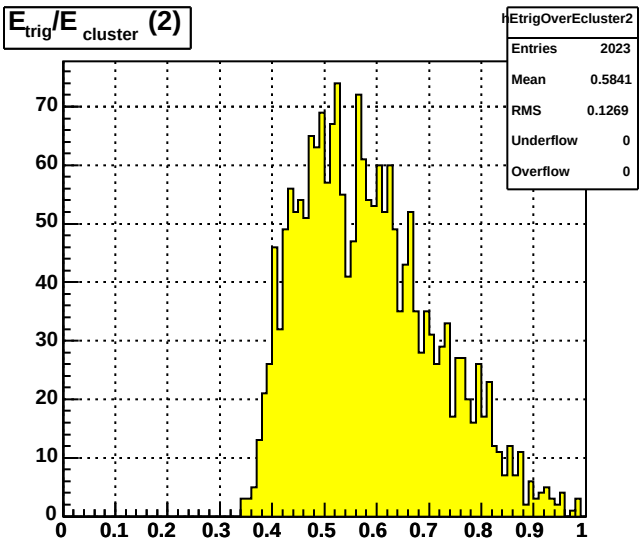

VPD vertex
hVpdVertex
Entries 2023
Mean -14.66
RMS 18.8
Underflow 0
Overflow 0
χ² / ndf 256.6 / 39
Constant 79.68 ± 2.20
Mean -14.43 ± 0.47
Sigma 18.21 ± 0.30
z_vertex [cm]


BBC vertex
hBbcVertex
Entries 2023
Mean -0.5479
RMS 11.84
Underflow 5
Overflow 14
χ² / ndf 56.9 / 42
Constant 143.5 ± 3.9
Mean 0.735 ± 0.249
Sigma 10.84 ± 0.16
z_vertex [cm]


ZDC vs. VPD vertex
hZdcVpdVertex
Entries 2023
Mean x -14.69
Mean y 0.03235
RMS x 18.76
RMS y 24.76
ZDC z-vertex [cm]
VPD z-vertex [cm]


ZDC vs. BBC vertex
hZdcBbcVertex
Entries 2023
Mean x -0.5658
Mean y 0.07177
RMS x 11.83
RMS y 24.76
ZDC z-vertex [cm]
BBC z-vertex [cm]


E_trig/E_cluster (1)
hEtrigOverEcluster1
Entries 2023
Mean 0.8105
RMS 0.09198
Underflow 0
Overflow 0


E_trig/E_cluster (2)
hEtrigOverEcluster2
Entries 2023
Mean 0.5841
RMS 0.1269
Underflow 0
Overflow 0