JevpSummary

Run #16116053: (running for 1796 seconds)

Tags: |tof|btow|trg|etow|daq|pp2pp|bsmd|esmd|tpx|mtd|gmt|fps|

```
builder        base: (events 9910, avgtime 0.0000)
builder         bbc: (events 9910, avgtime 0.0001)
builder         daq: (events 9910, avgtime 0.0000)
builder        bemc: (events 6967, avgtime 0.0711)
builder        eemc: (events 9910, avgtime 0.0090)
builder         fpd: (events 9910, avgtime 0.0000)
builder         hlt: (events 9910, avgtime 0.0000)
builder          l3: (events 2516, avgtime 0.1970)
builder         tof: (events 9910, avgtime 0.0005)
builder         mtd: (events 9910, avgtime 0.0001)
builder         tpx: (events 9910, avgtime 0.0274)
builder         trg: (events 9910, avgtime 0.0001)
builder         upc: (events 9910, avgtime 0.0000)
builder         fgt: (events 9910, avgtime 0.0084)
builder         vpd: (events 9910, avgtime 0.0001)
builder         fms: (events 9910, avgtime 0.0003)
builder         fps: (events 9910, avgtime 0.0003)
builder         gmt: (events 9910, avgtime 0.0004)
builder         pxl: (events 9910, avgtime 0.0000)
builder         ist: (events 9910, avgtime 0.0095)
builder         ssd: (events 9910, avgtime 0.0000)
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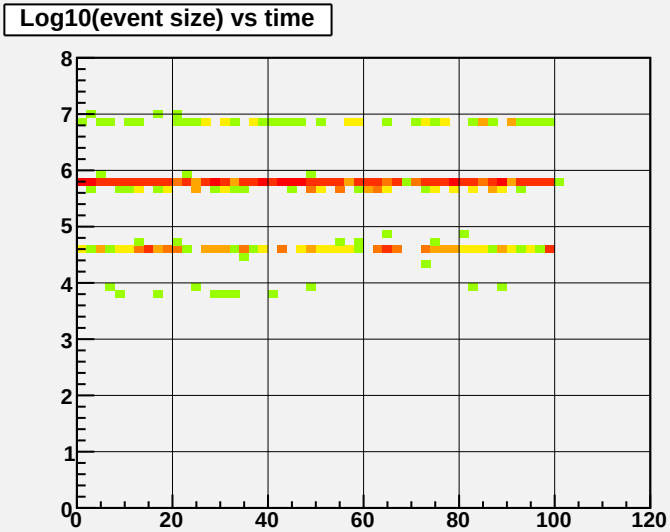
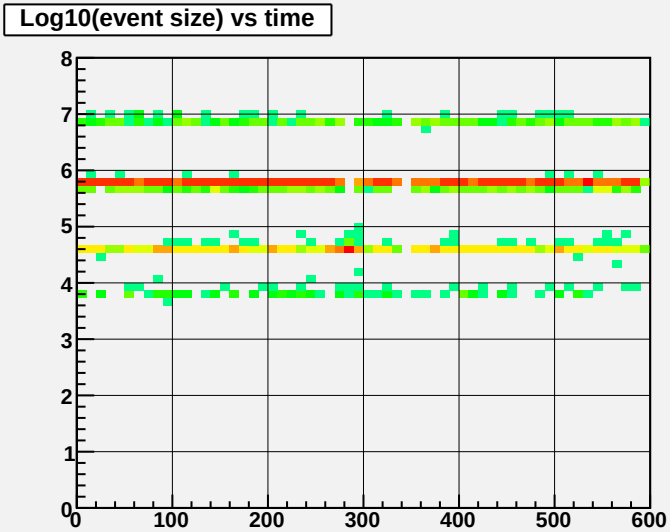
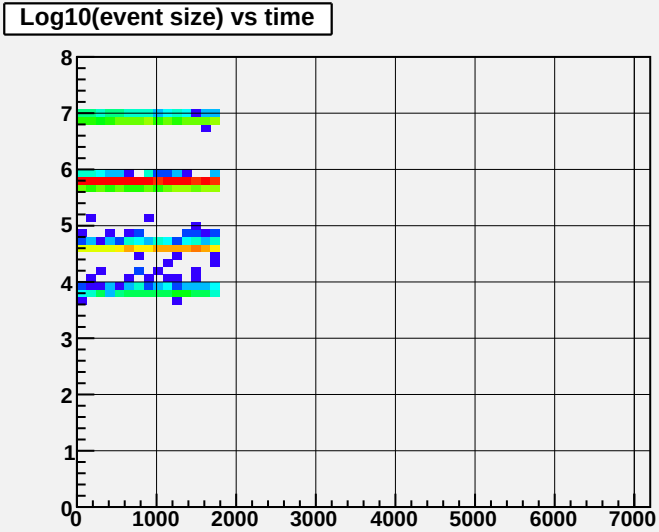
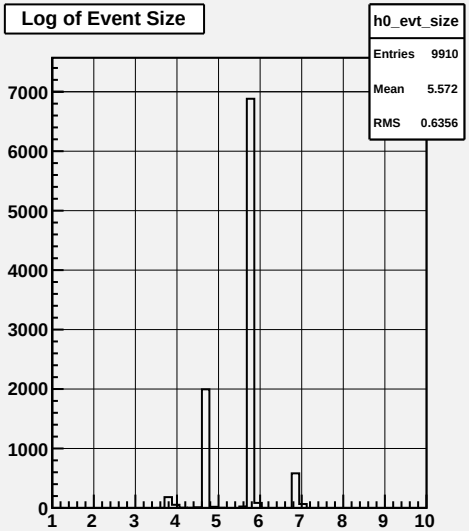
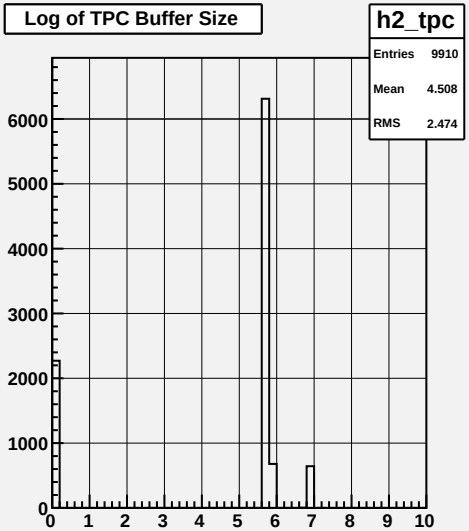

Log10(event size) vs time
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120


Log10(event size) vs time
0
1
2
3
4
5
6
7
8
0
100
200
300
400
500
600


Log10(event size) vs time
0
1
2
3
4
5
6
7
8
0
1000
2000
3000
4000
5000
6000
7000



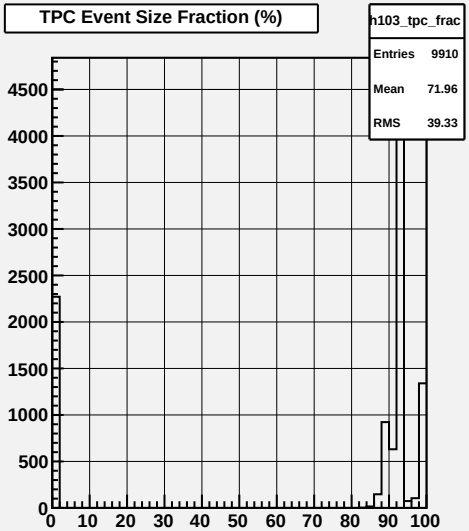


daq_h12_l3_evsize

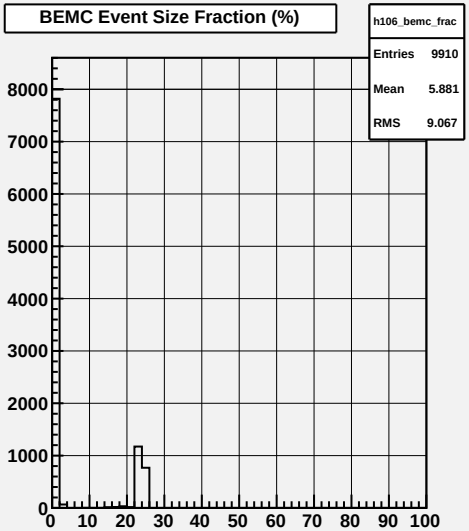
daq_h10_bemc_evsize

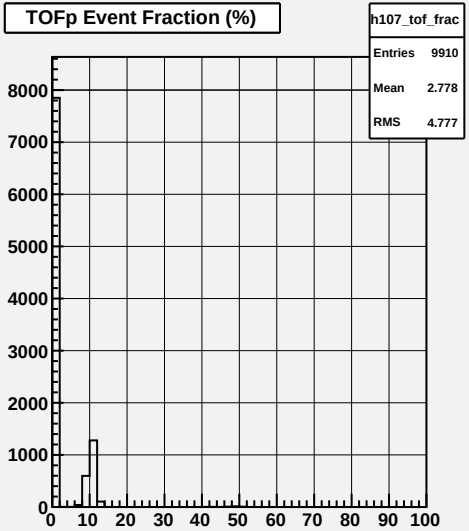
daq_h14_tof_evsize

daq_h11_ftp_evsize

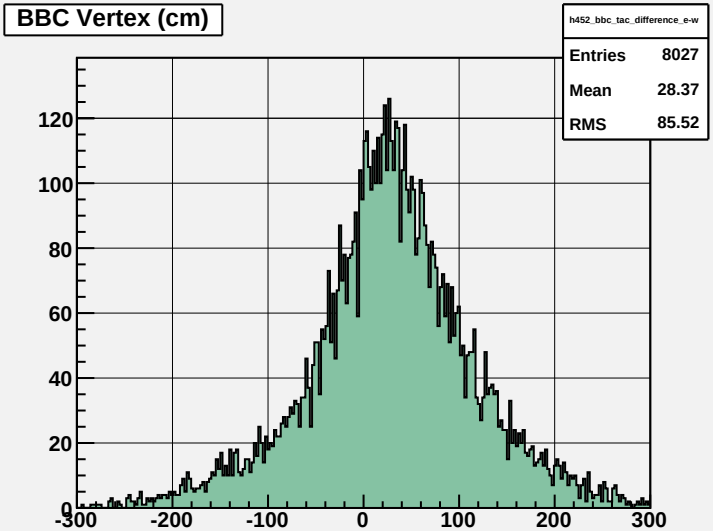


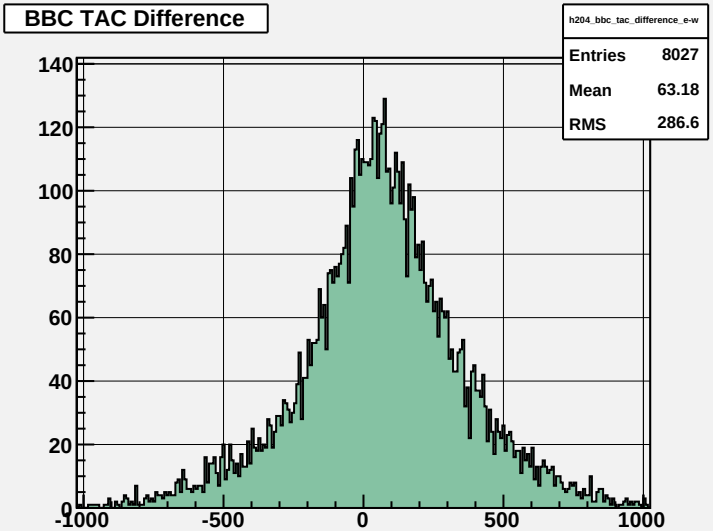
daq_h108_l3_frac

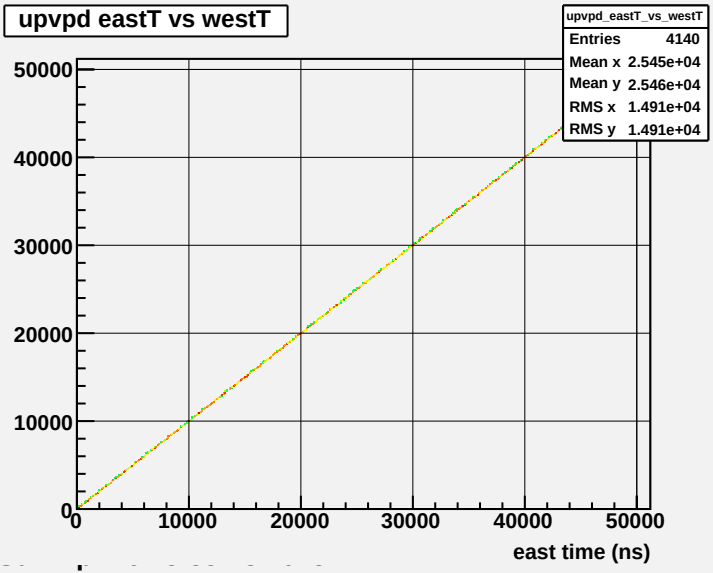


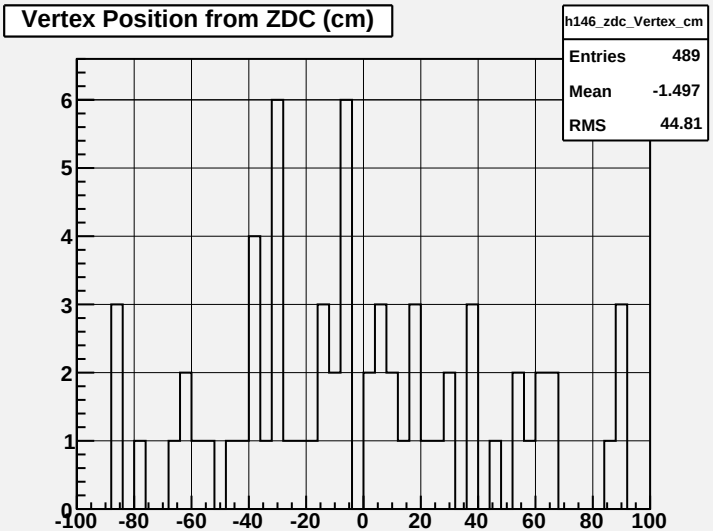


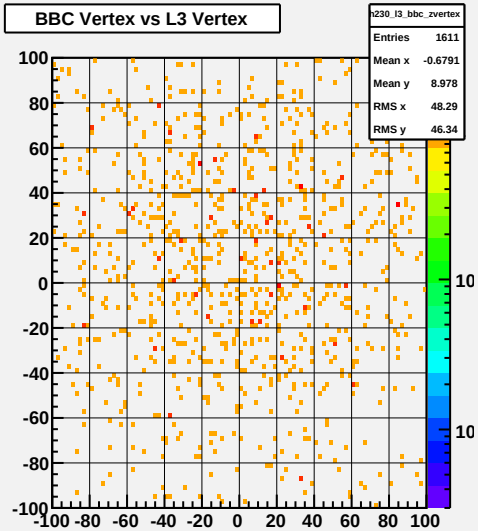
daq_h109_ftp_frac

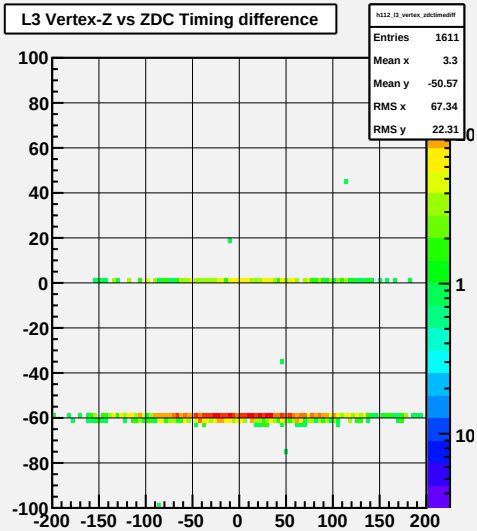

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 8027
Mean 28.37
RMS 85.52
0
20
40
60
80
100
120
-300
-200
-100
0
100
200
300

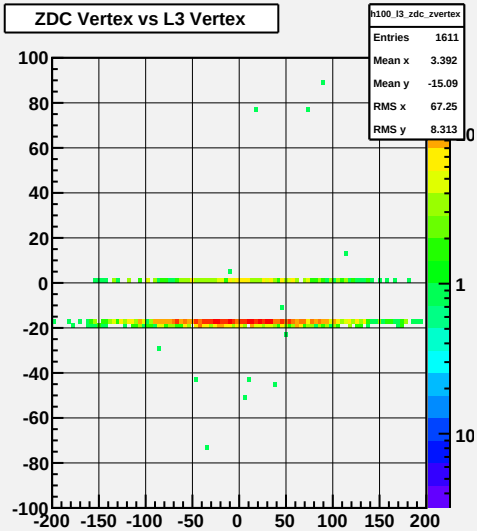

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 8027
Mean 63.18
RMS 286.6
0
20
40
60
80
100
120
140
-1000
-500
0
500
1000

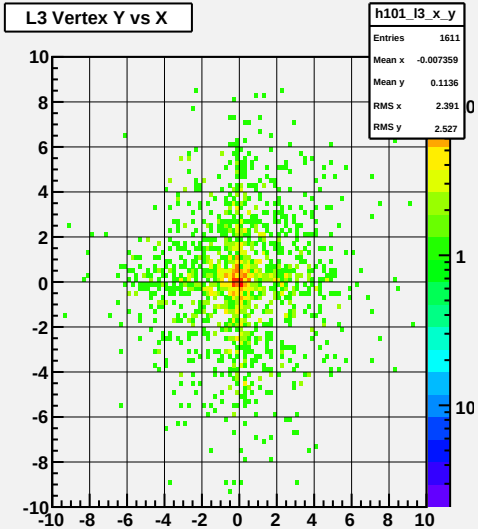

upvpd eastT vs westT
upvpd_eastT_vs_westT
Entries 4140
Mean x 2.545e+04
Mean y 2.546e+04
RMS x 1.491e+04
RMS y 1.491e+04
0
10000
20000
30000
40000
50000
east time (ns)

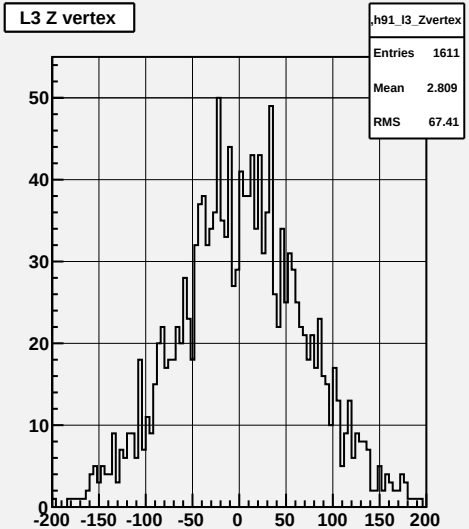

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 489
Mean -1.497
RMS 44.81
0
1
2
3
4
5
6
-100
-80
-60
-40
-20
0
20
40
60
80
100

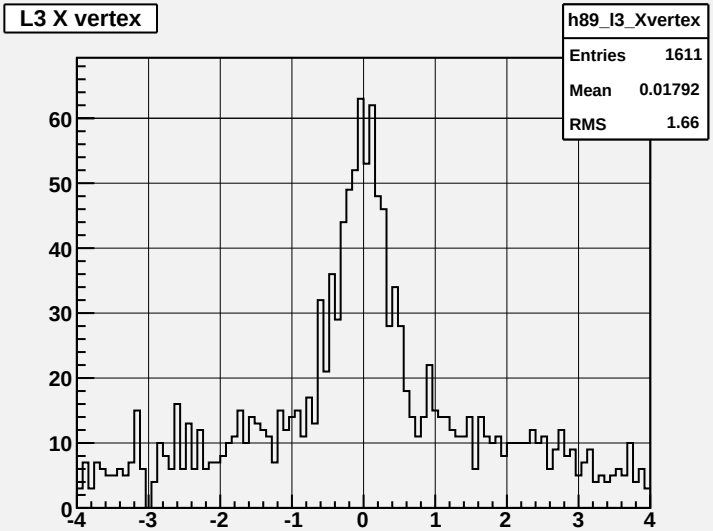

BBC Vertex vs L3 Vertex
h230_l3_bbc_zvertex
Entries 1611
Mean x -0.6791
Mean y 8.978
RMS x 48.29
RMS y 46.34

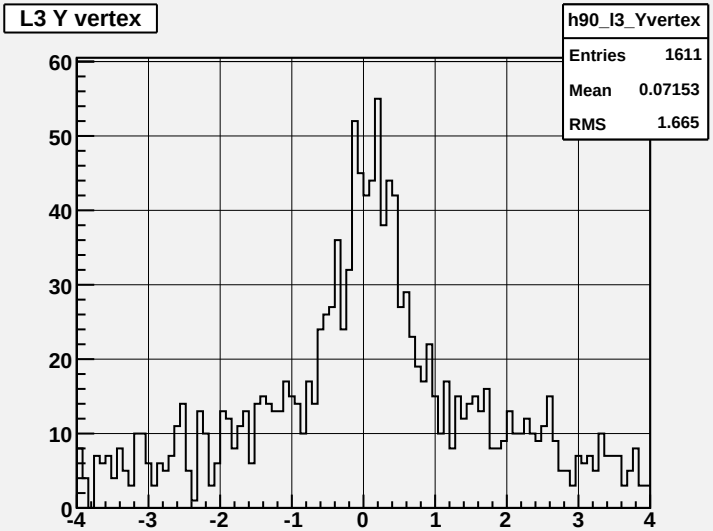

L3 Vertex-Z vs ZDC Timing difference
h112_l3_vertex_zdctimediff
Entries 1611
Mean x 3.3
Mean y -50.57
RMS x 67.34
RMS y 22.31

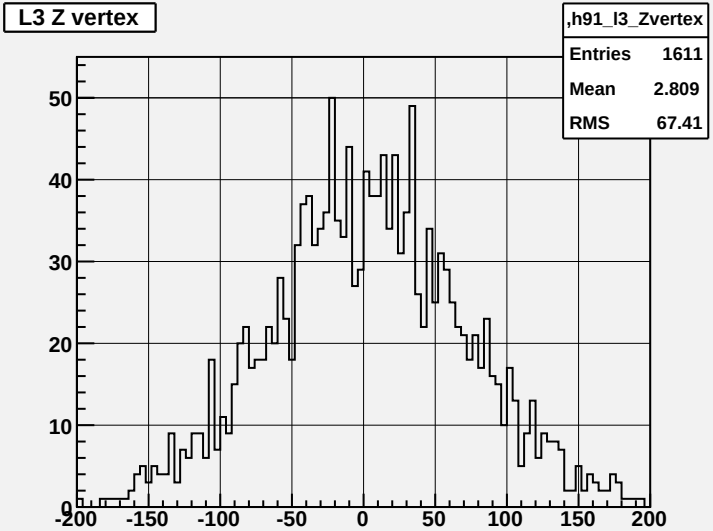

ZDC Vertex vs L3 Vertex
h100_l3_zdc_zvertex
Entries 1611
Mean x 3.392
Mean y -15.09
RMS x 67.25
RMS y 8.313

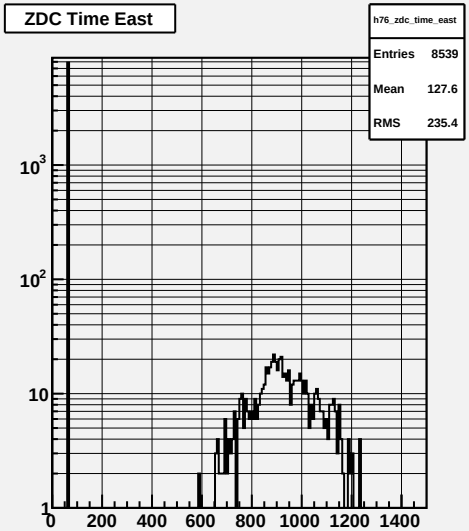

L3 Vertex Y vs X
h101_l3_x_y
Entries 1611
Mean x -0.007359
Mean y 0.1136
RMS x 2.391
RMS y 2.527

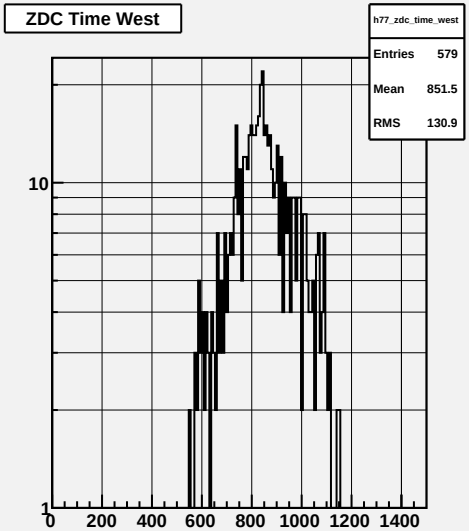

L3 Z vertex
h91_l3_Zvertex
Entries 1611
Mean 2.809
RMS 67.41

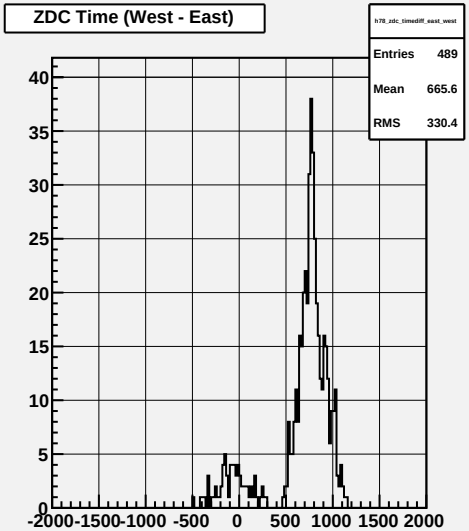

L3 X vertex
h89_l3_Xvertex
Entries 1611
Mean 0.01792
RMS 1.66
60
50
40
30
20
10
0
-4
-3
-2
-1
0
1
2
3
4

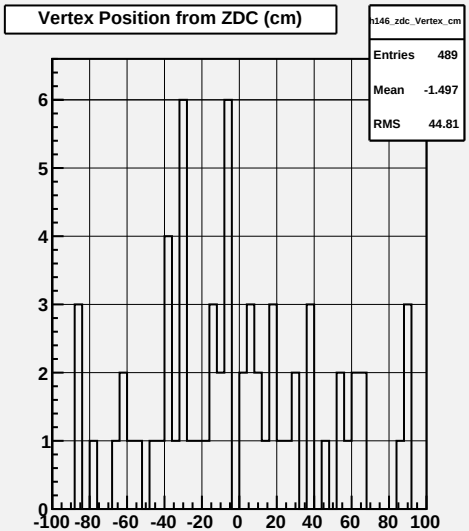

L3 Y vertex
h90_l3_Yvertex
Entries 1611
Mean 0.07153
RMS 1.665
60
50
40
30
20
10
0
-4
-3
-2
-1
0
1
2
3
4

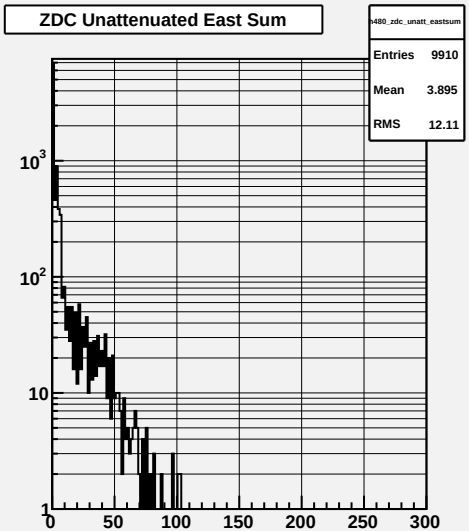

L3 Z vertex
,h91_l3_Zvertex
Entries 1611
Mean 2.809
RMS 67.41
50
40
30
20
10
0
-200
-150
-100
-50
0
50
100
150
200

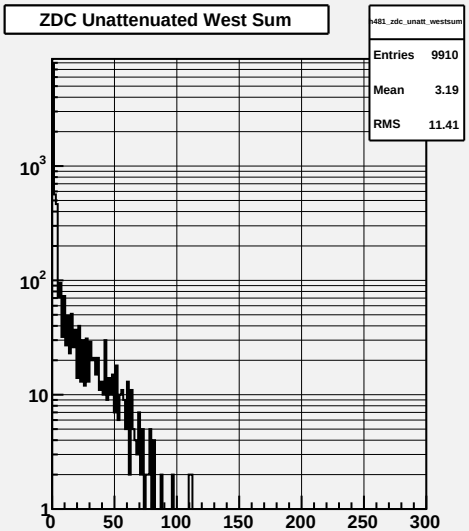

ZDC Time East
h76_zdc_time_east
Entries 8539
Mean 127.6
RMS 235.4

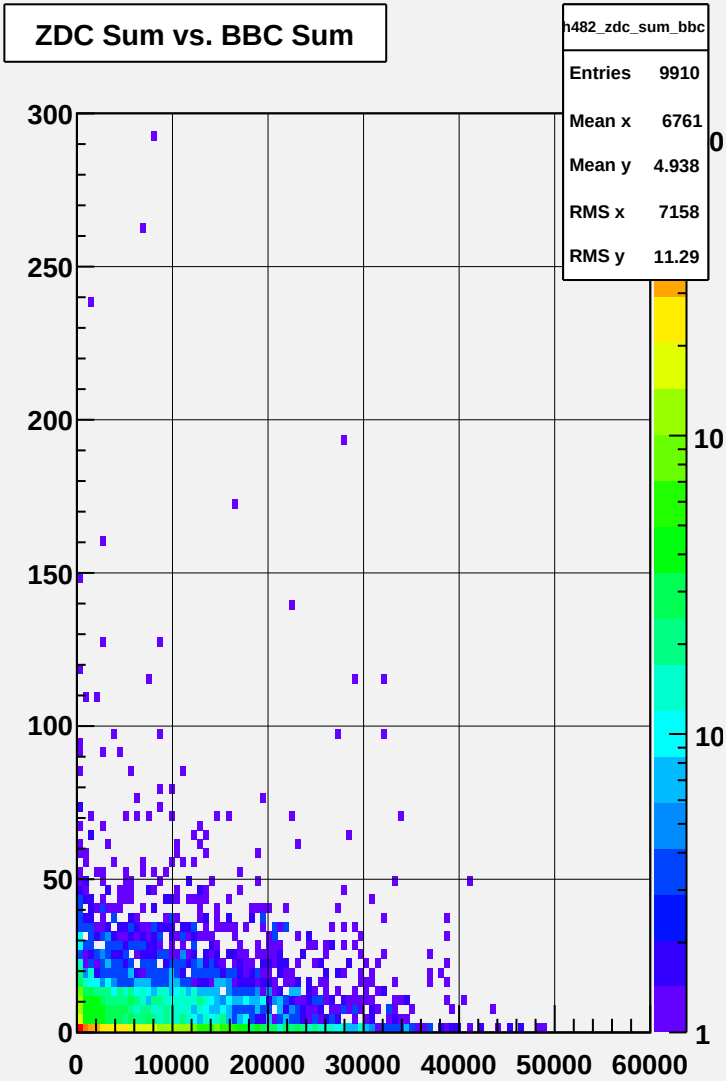

ZDC Time West
h77_zdc_time_west
Entries 579
Mean 851.5
RMS 130.9

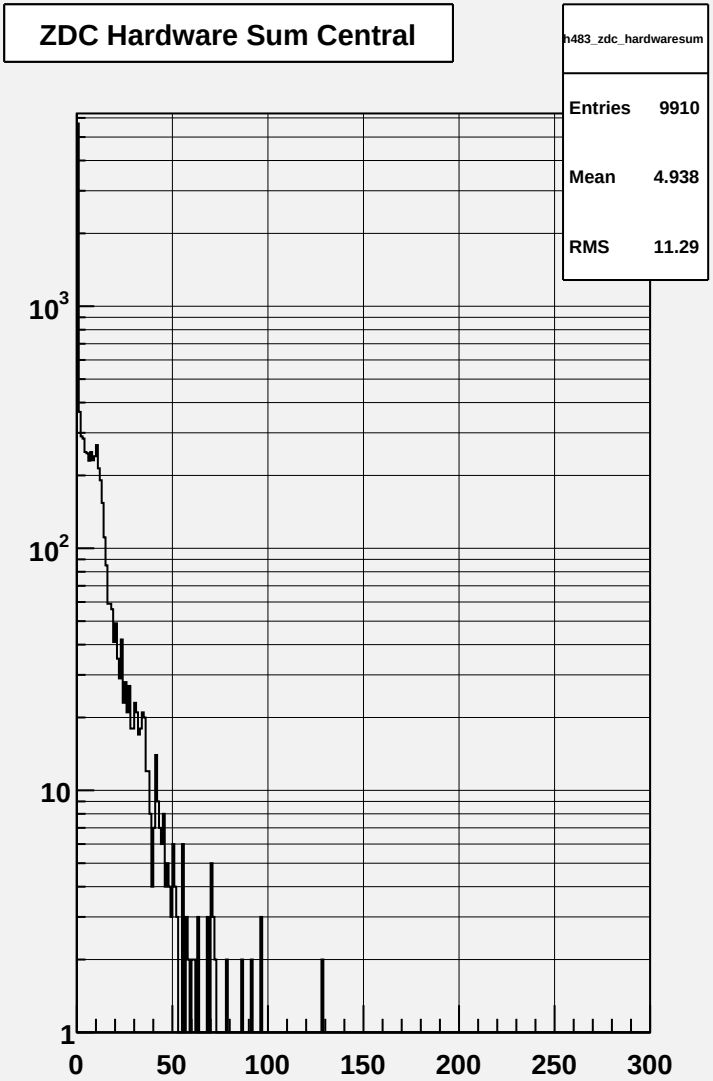

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 489
Mean 665.6
RMS 330.4

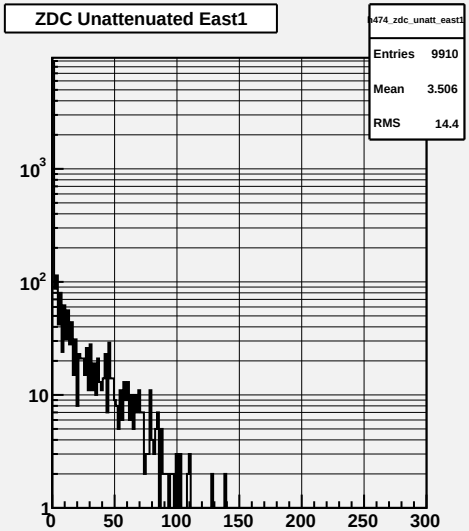

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 489
Mean -1.497
RMS 44.81

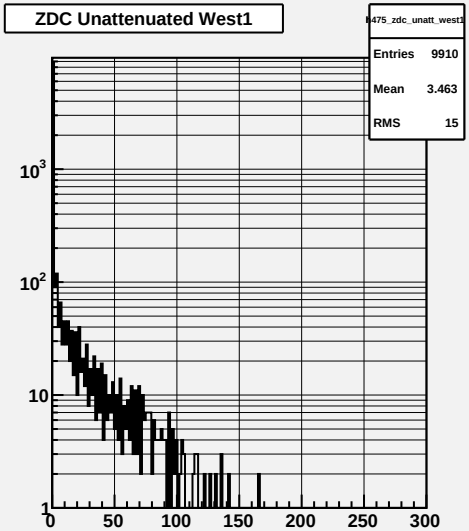

ZDC Unattenuated East Sum
h480_zdc_unatt_eastsum
Entries 9910
Mean 3.895
RMS 12.11

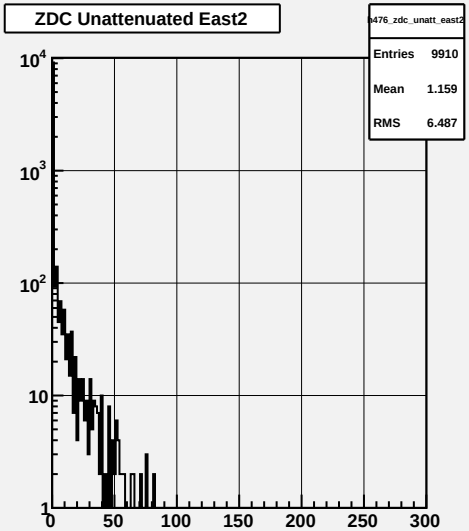

ZDC Unattenuated West Sum
h481_zdc_unatt_westsum
Entries 9910
Mean 3.19
RMS 11.41

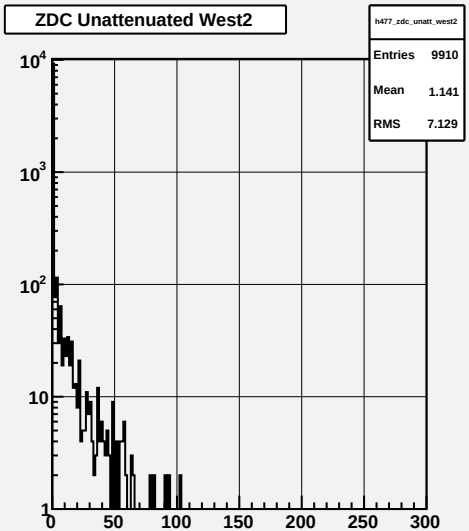

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 9910
Mean x 6761
Mean y 4.938
RMS x 7158
RMS y 11.29
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
1

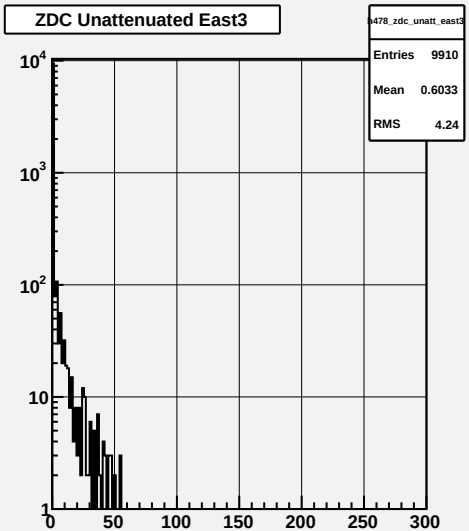

ZDC Hardware Sum Central
h483_zdc_hardwaresum
Entries 9910
Mean 4.938
RMS 11.29
10^3
10^2
10
1
0
50
100
150
200
250
300

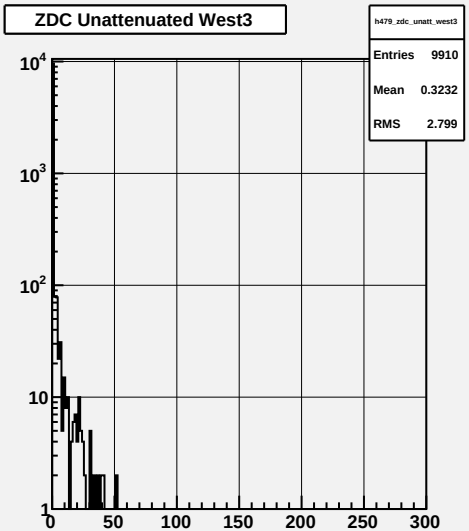

ZDC Unattenuated East1
h474_zdc_unatt_east1
Entries 9910
Mean 3.506
RMS 14.4

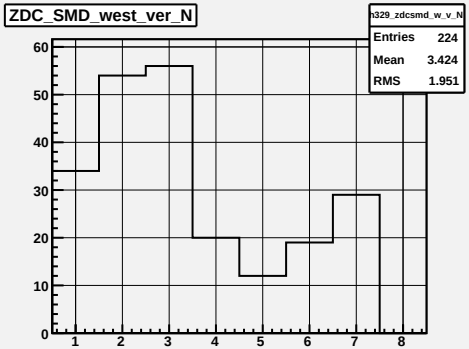

ZDC Unattenuated West1
h475_zdc_unatt_west1
Entries 9910
Mean 3.463
RMS 15

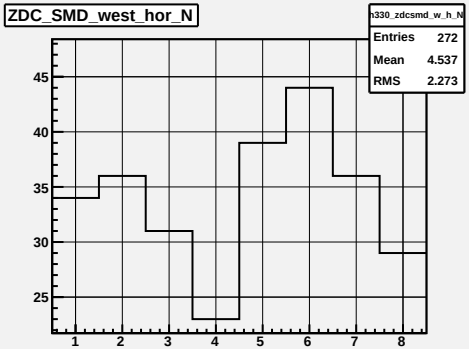

ZDC Unattenuated East2
h476_zdc_unatt_east2
Entries 9910
Mean 1.159
RMS 6.487

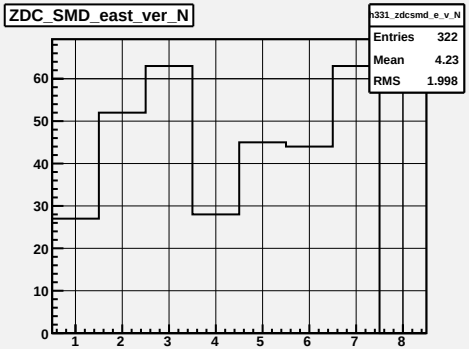

ZDC Unattenuated West2
h477_zdc_unatt_west2
Entries 9910
Mean 1.141
RMS 7.129

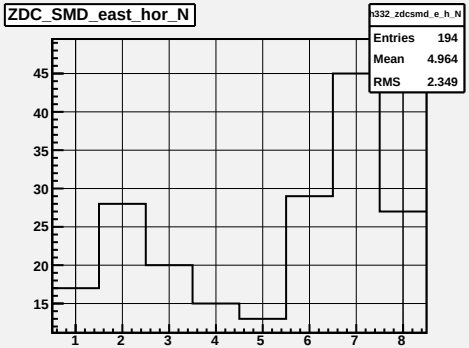

ZDC Unattenuated East3
h478_zdc_unatt_east3
Entries 9910
Mean 0.6033
RMS 4.24

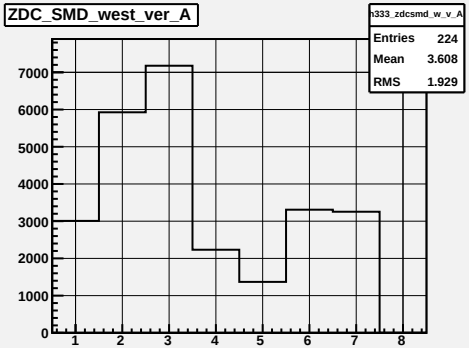

ZDC Unattenuated West3
h479_zdc_unatt_west3
Entries 9910
Mean 0.3232
RMS 2.799

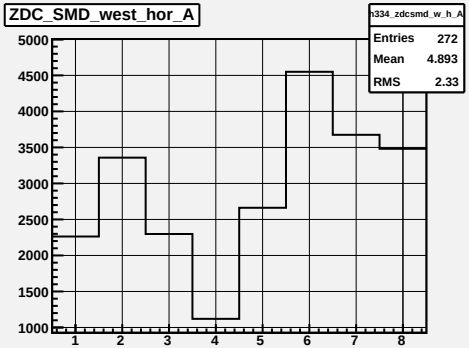

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 224
Mean 3.424
RMS 1.951

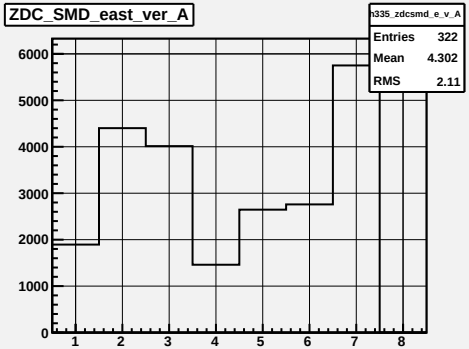

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 272
Mean 4.537
RMS 2.273

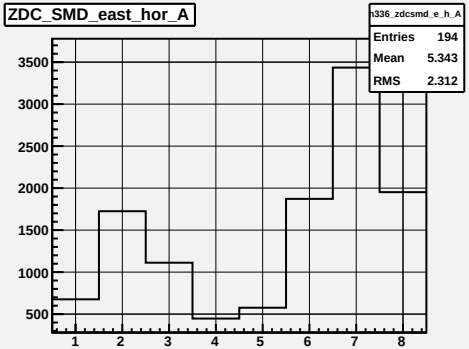

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 322
Mean 4.23
RMS 1.998

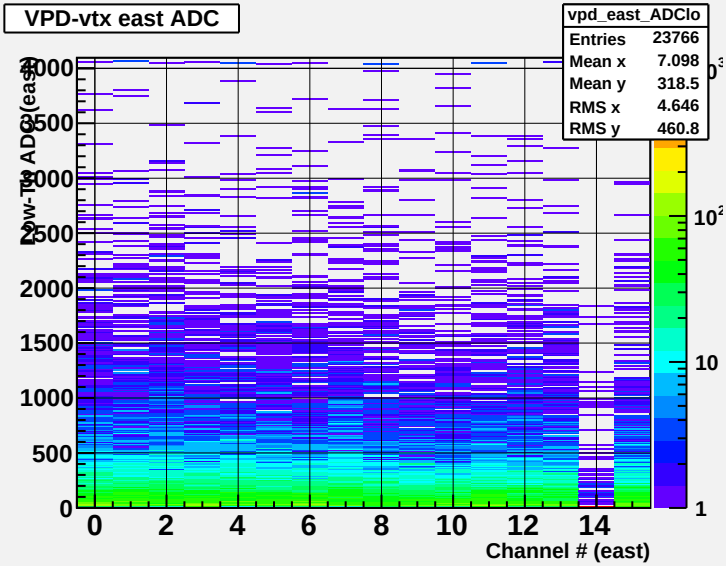

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 194
Mean 4.964
RMS 2.349

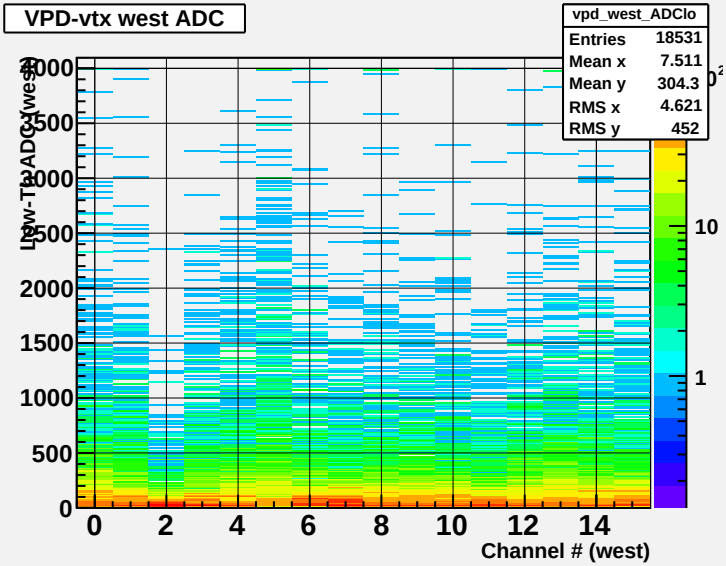

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 224
Mean 3.608
RMS 1.929

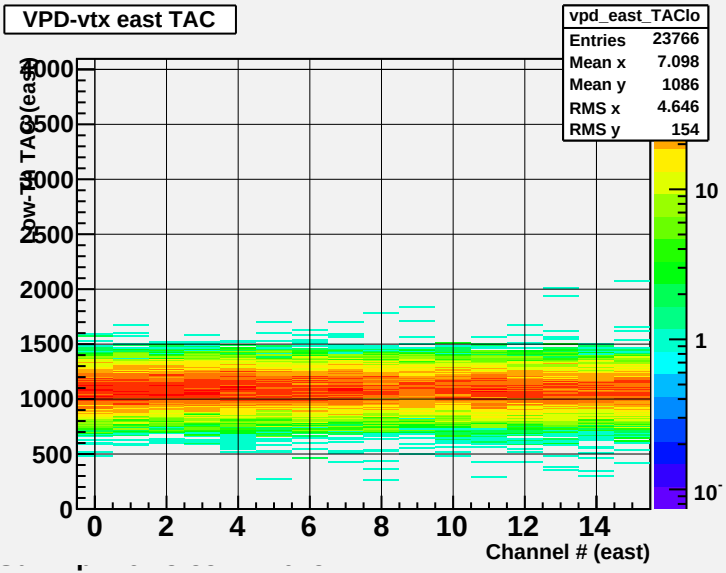

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 272
Mean 4.893
RMS 2.33

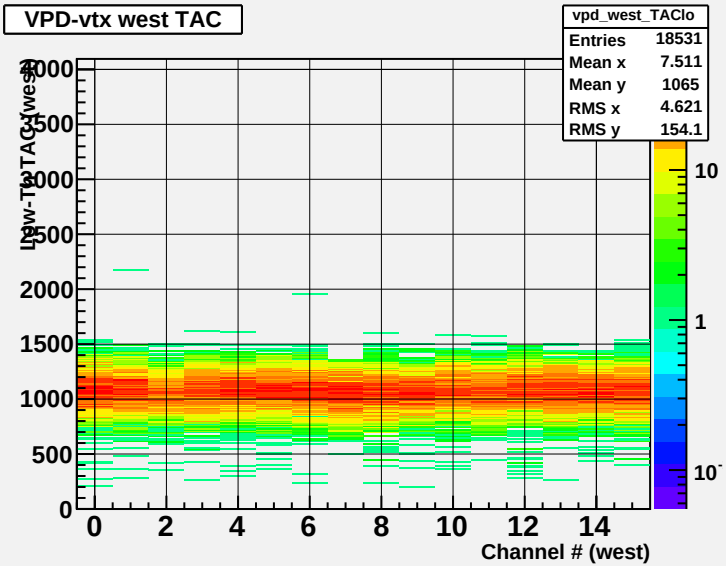

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 322
Mean 4.302
RMS 2.11

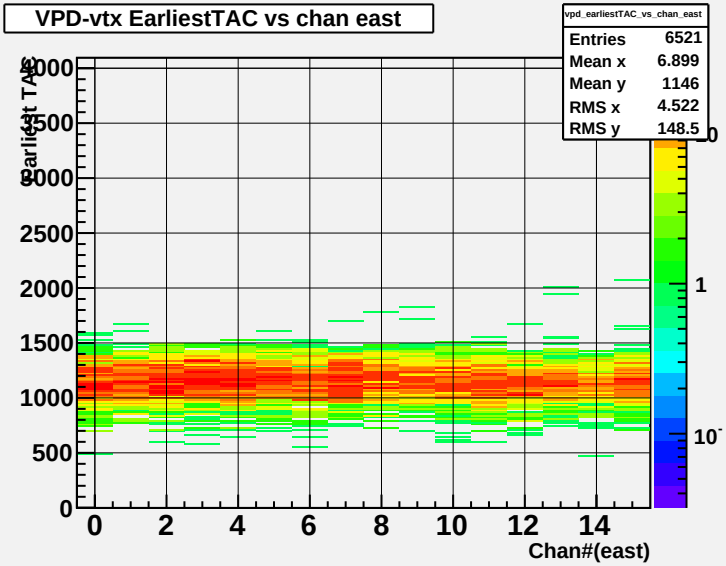

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 194
Mean 5.343
RMS 2.312

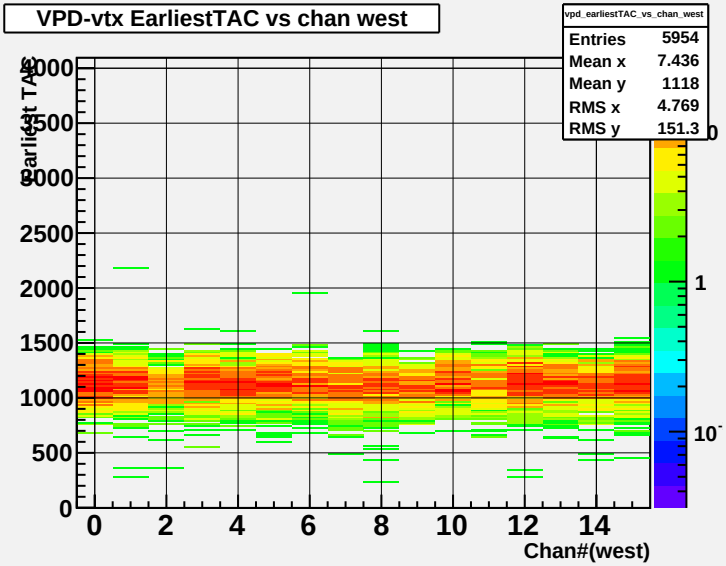

VPD-vtx east ADC
vpd_east_ADClo
Entries 23766
Mean x 7.098
Mean y 318.5
RMS x 4.646
RMS y 460.8
Low-Tw ADC (east)
Channel # (east)

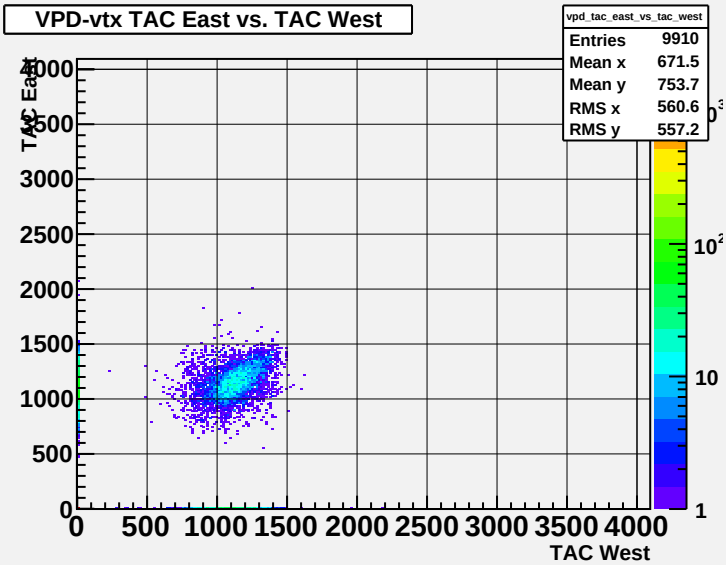

VPD-vtx west ADC
vpd_west_ADClo
Entries 18531
Mean x 7.511
Mean y 304.3
RMS x 4.621
RMS y 452
Low-Tw ADC (west)
Channel # (west)

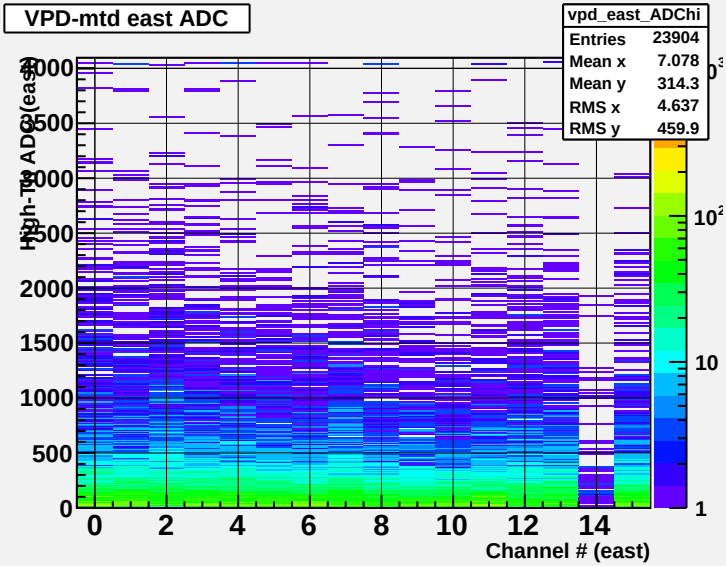

VPD-vtx east TAC
vpd_east_TAClo
Entries 23766
Mean x 7.098
Mean y 1086
RMS x 4.646
RMS y 154
Low-Tw TAC (east)
Channel # (east)

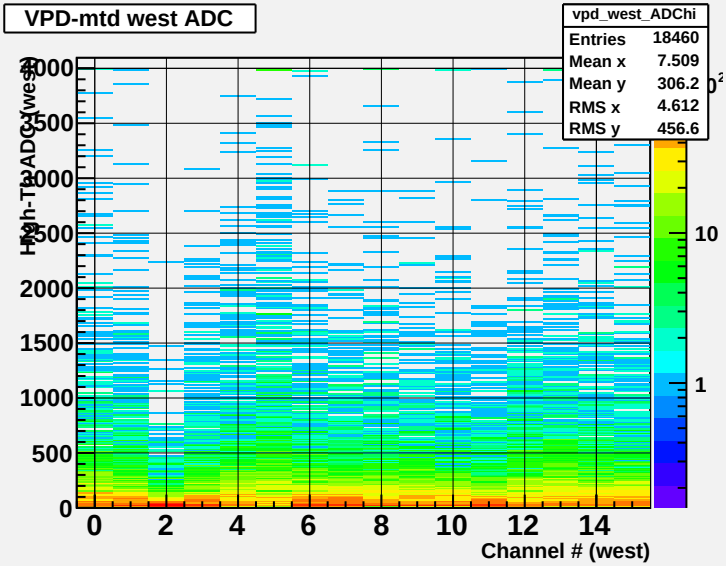

VPD-vtx west TAC
vpd_west_TAClo
Entries 18531
Mean x 7.511
Mean y 1065
RMS x 4.621
RMS y 154.1
Low-Tw TAC (west)
Channel # (west)

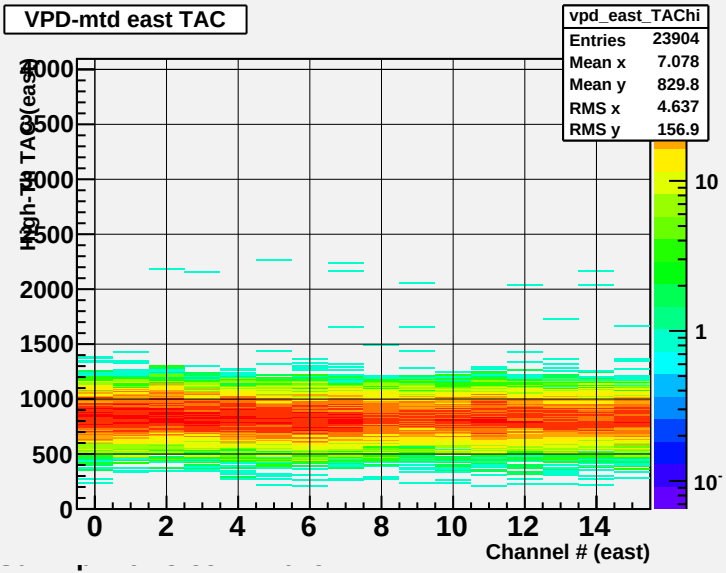

VPD-vtx EarliestTAC vs chan east
vpd_earliestTAC_vs_chan_east
Entries 6521
Mean x 6.899
Mean y 1146
RMS x 4.522
RMS y 148.5
Earliest TAC
Chan#(east)

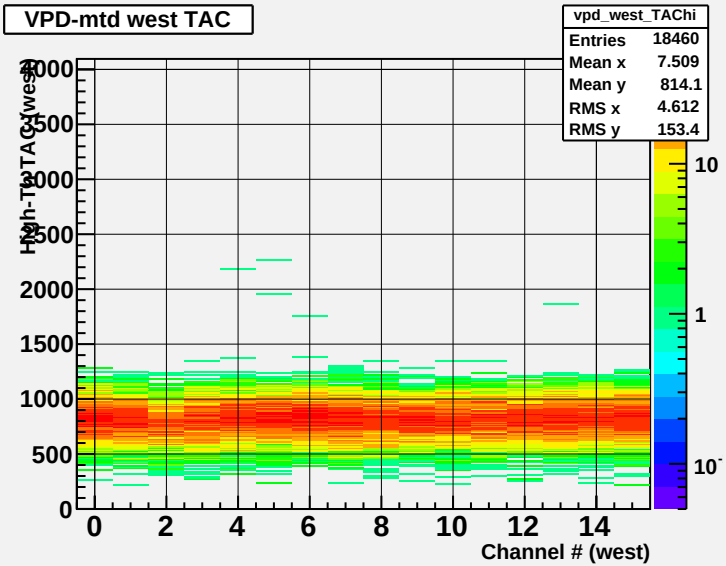

VPD-vtx EarliestTAC vs chan west
vpd_earliestTAC_vs_chan_west
Entries 5954
Mean x 7.436
Mean y 1118
RMS x 4.769
RMS y 151.3
Earliest TAC
Chan#(west)

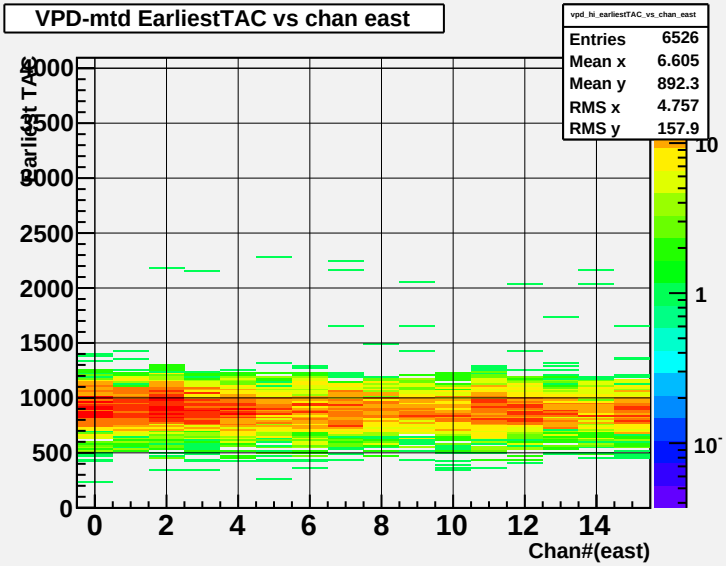

VPD-vtx TAC East vs. TAC West
vpd_tac_east_vs_tac_west
Entries 9910
Mean x 671.5
Mean y 753.7
RMS x 560.6
RMS y 557.2
TAC East
TAC West

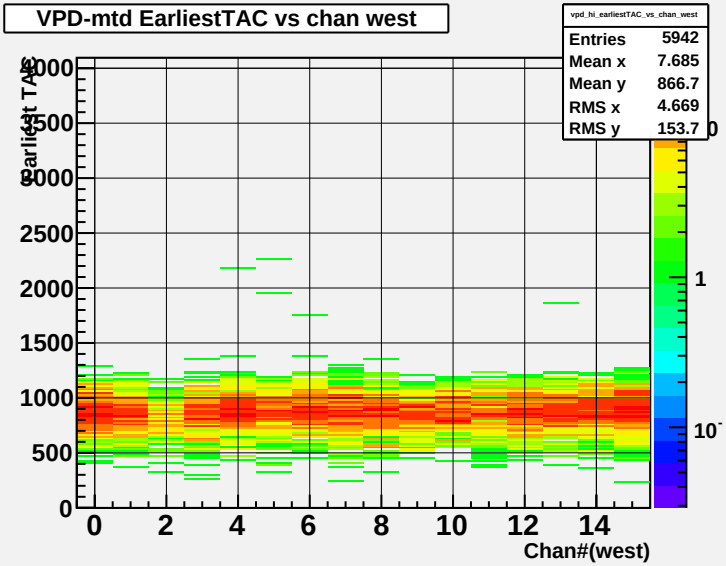

VPD-mtd east ADC
vpd_east_ADChi
Entries 23904
Mean x 7.078
Mean y 314.3
RMS x 4.637
RMS y 459.9
High-Tu ADC (east)
Channel # (east)

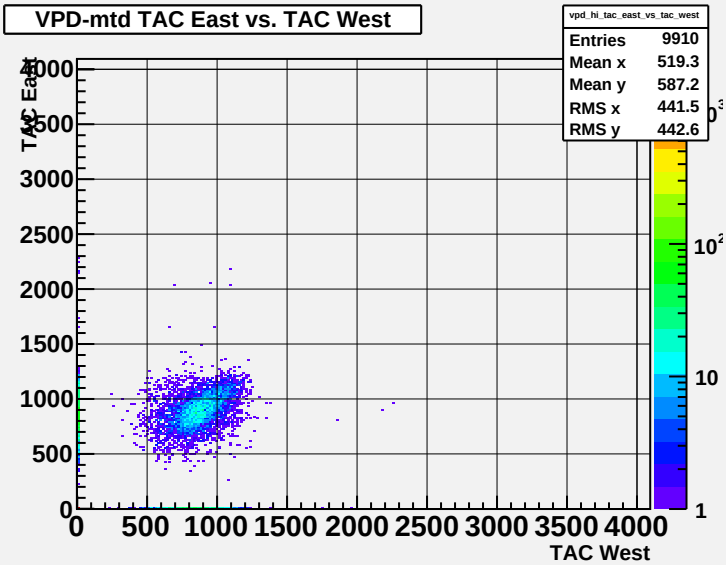

VPD-mtd west ADC
vpd_west_ADChi
Entries 18460
Mean x 7.509
Mean y 306.2
RMS x 4.612
RMS y 456.6
High-Tu ADC (west)
Channel # (west)

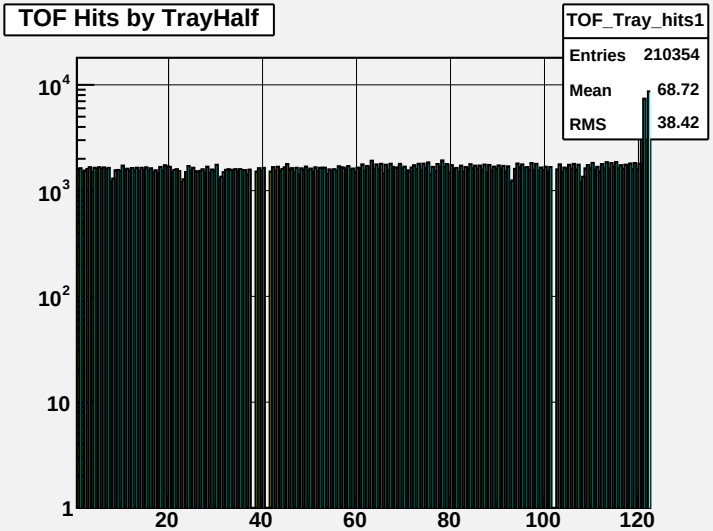

VPD-mtd east TAC
vpd_east_TAChi
Entries 23904
Mean x 7.078
Mean y 829.8
RMS x 4.637
RMS y 156.9
High-Tu TAC (east)
Channel # (east)

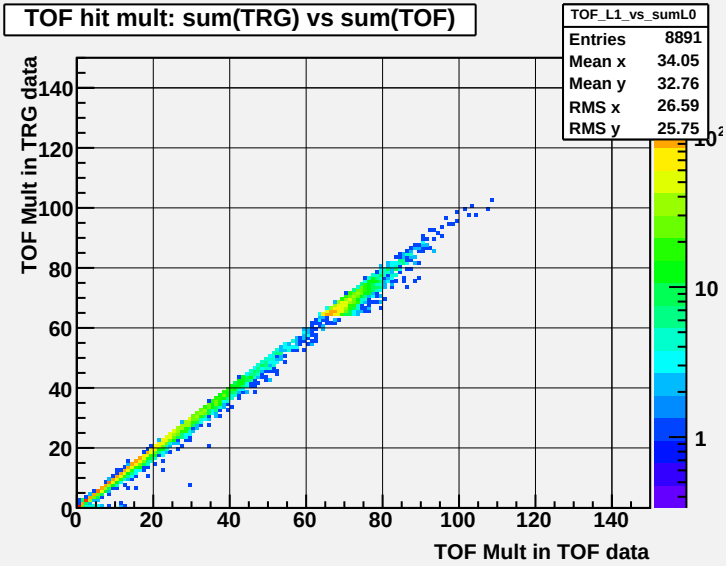

VPD-mtd west TAC
vpd_west_TAChi
Entries 18460
Mean x 7.509
Mean y 814.1
RMS x 4.612
RMS y 153.4
High-Tu TAC (west)
Channel # (west)

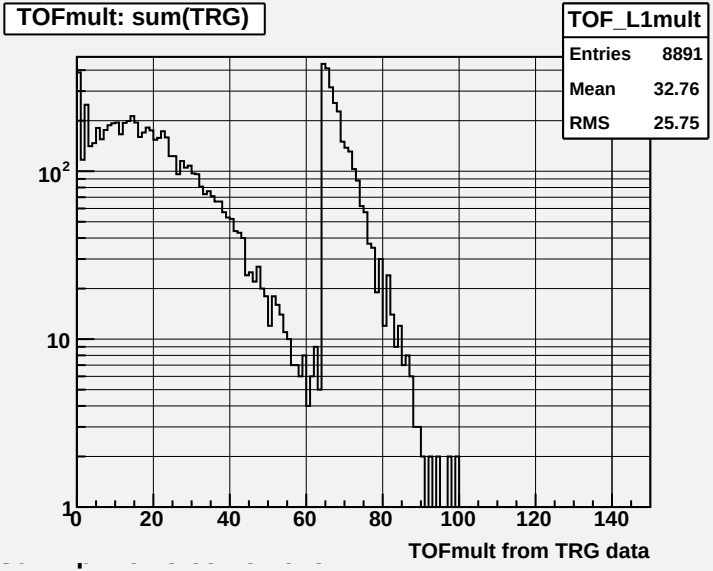

VPD-mtd EarliestTAC vs chan east
vpd_hi_earliestTAC_vs_chan_east
Entries 6526
Mean x 6.605
Mean y 892.3
RMS x 4.757
RMS y 157.9
Earliest TAC
Chan#(east)

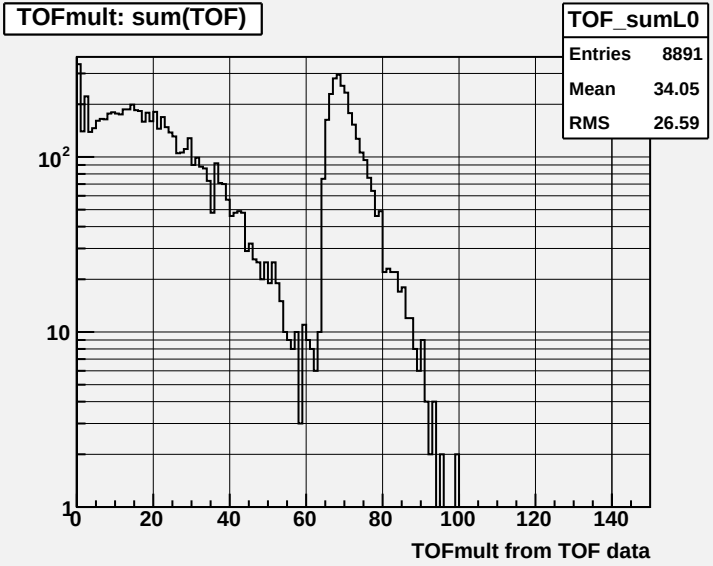

VPD-mtd EarliestTAC vs chan west
vpd_hi_earliestTAC_vs_chan_west
Entries 5942
Mean x 7.685
Mean y 866.7
RMS x 4.669
RMS y 153.7
Earliest TAC
Chan#(west)

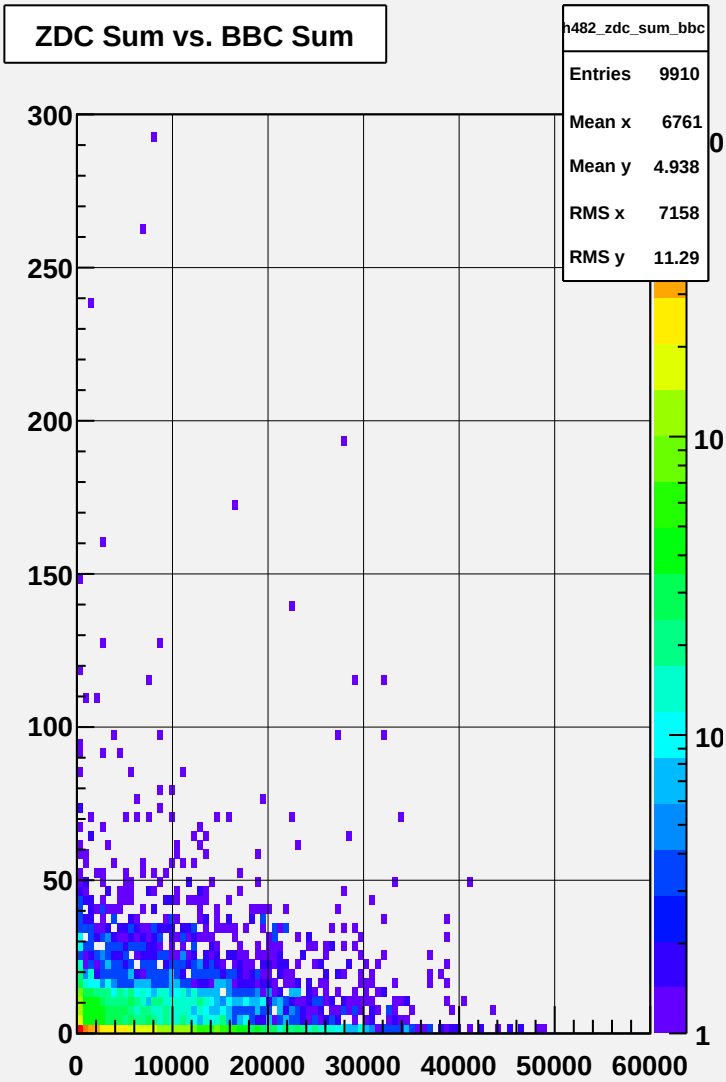

VPD-mtd TAC East vs. TAC West
vpd_hi_tac_east_vs_tac_west
Entries 9910
Mean x 519.3
Mean y 587.2
RMS x 441.5
RMS y 442.6
TAC East
TAC West

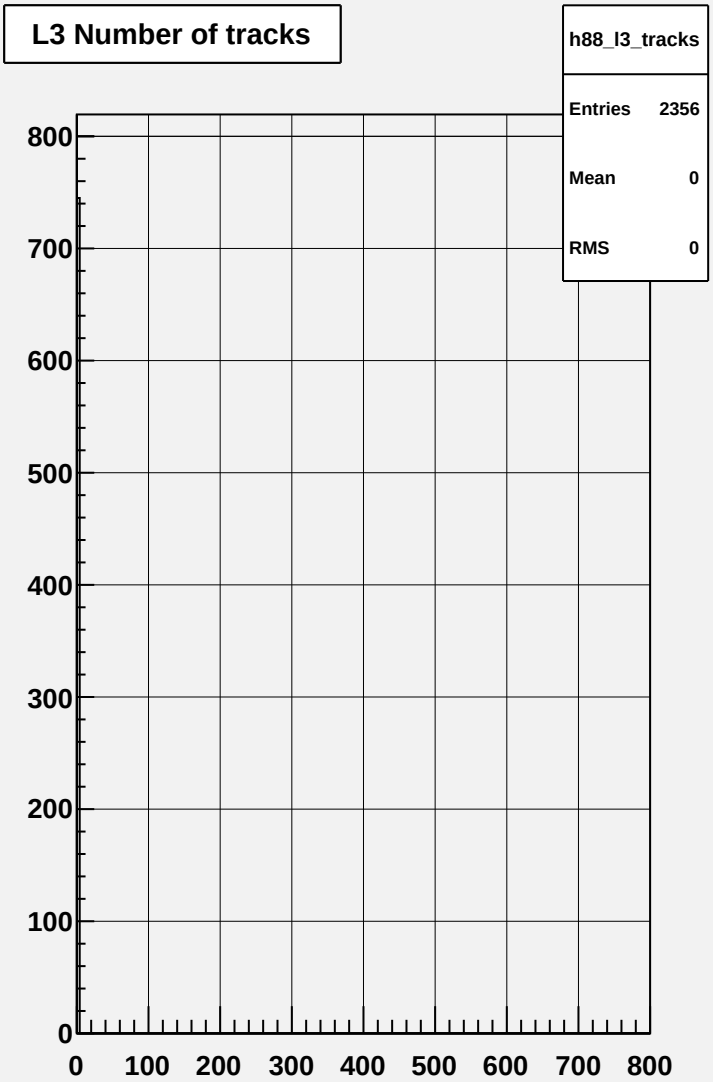

TOF Hits by TrayHalf
TOF_Tray_hits1
Entries 210354
Mean 68.72
RMS 38.42

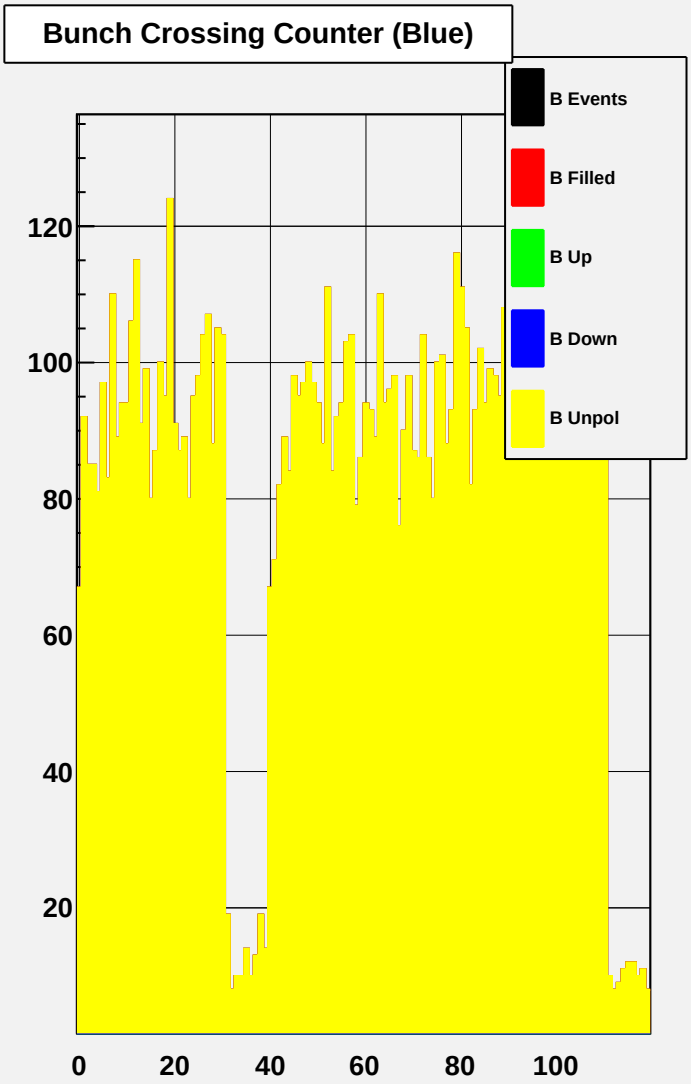

TOF hit mult: sum(TRG) vs sum(TOF)
TOF_L1_vs_sumL0
Entries 8891
Mean x 34.05
Mean y 32.76
RMS x 26.59
RMS y 25.75
TOF Mult in TRG data
TOF Mult in TOF data

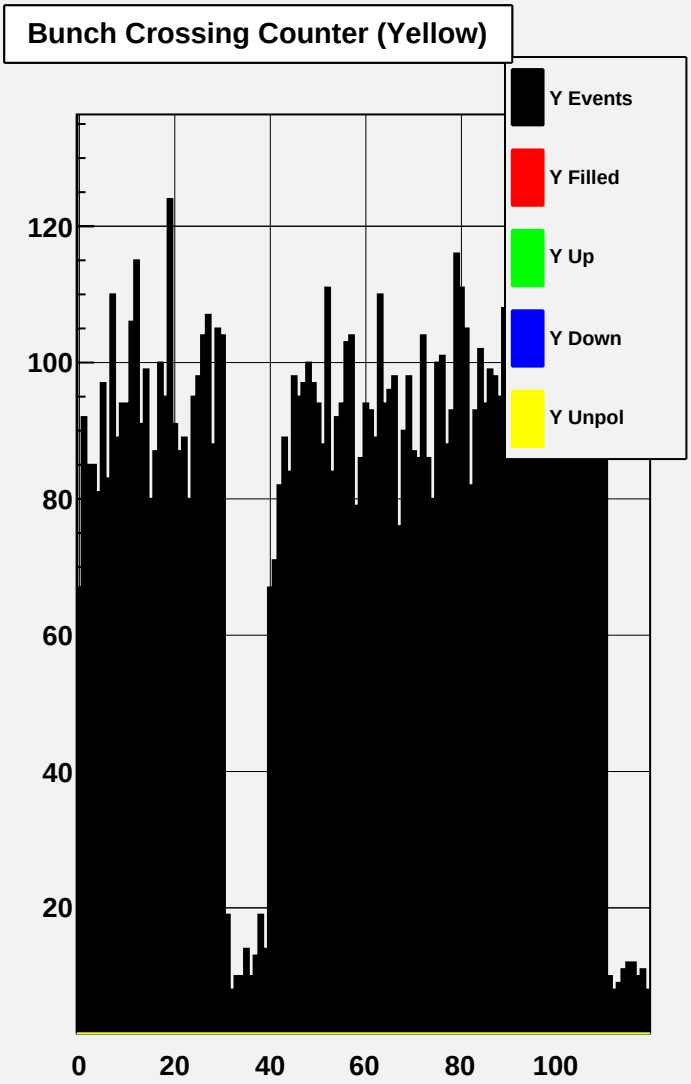

TOFmult: sum(TRG)
TOF_L1mult
Entries 8891
Mean 32.76
RMS 25.75
TOFmult from TRG data

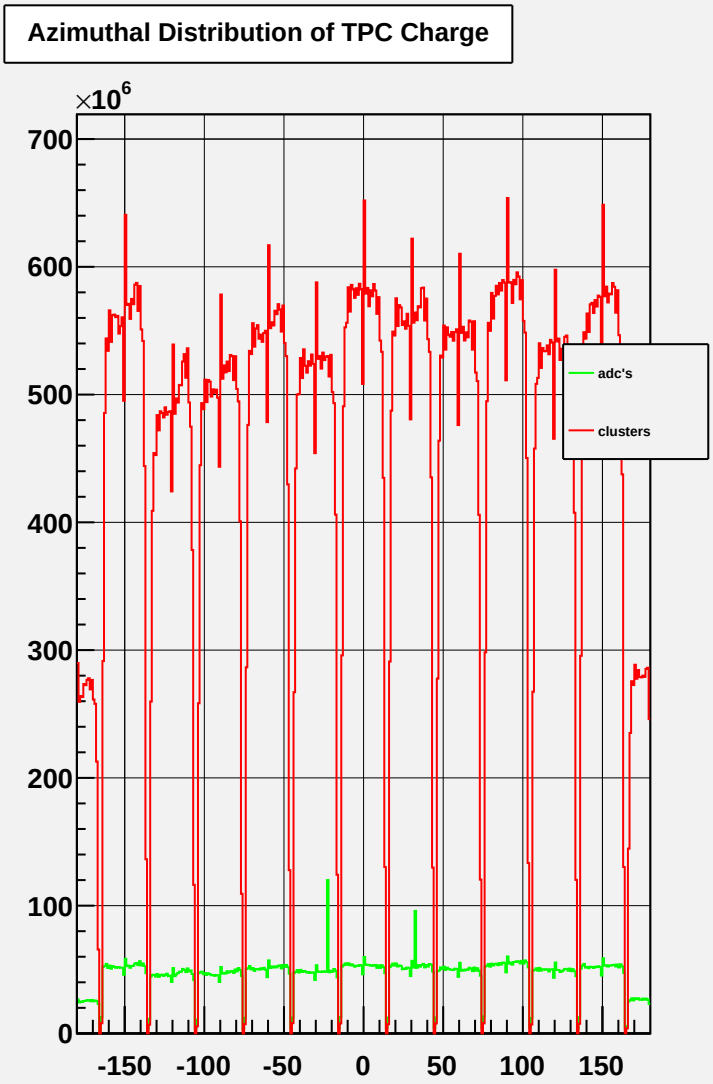

TOFmult: sum(TOF)
TOF_sumL0
Entries 8891
Mean 34.05
RMS 26.59
TOFmult from TOF data

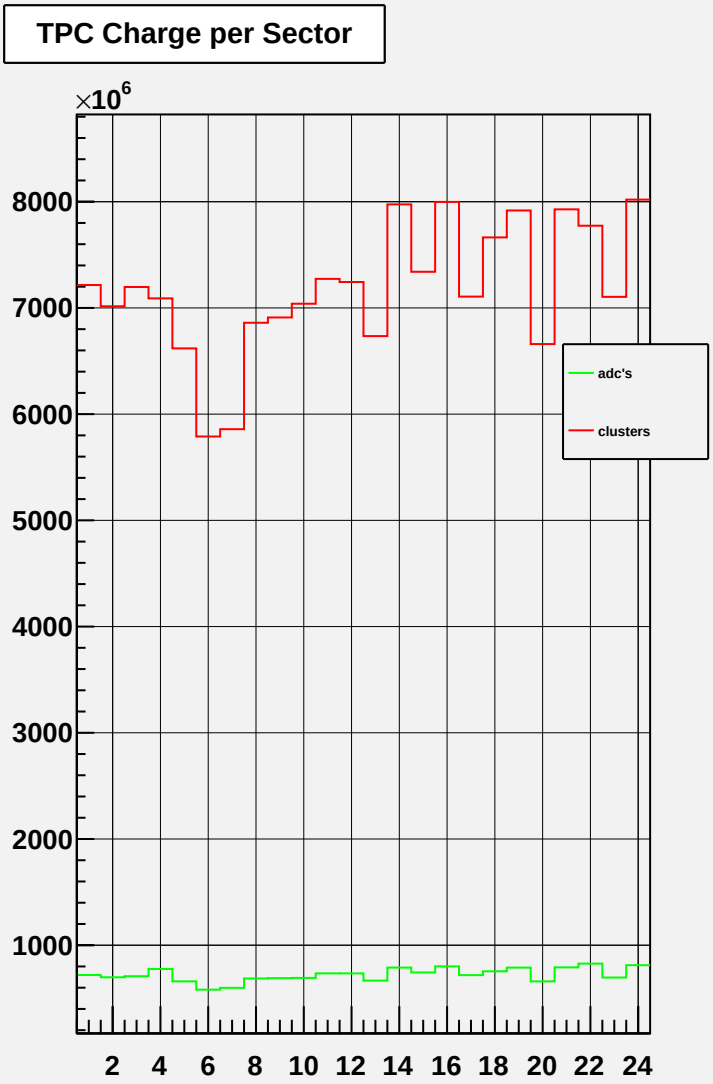

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 9910
Mean x 6761
Mean y 4.938
RMS x 7158
RMS y 11.29
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
1

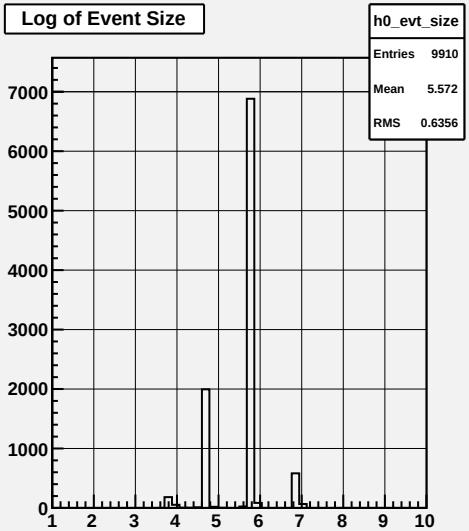

L3 Number of tracks
h88_l3_tracks
Entries 2356
Mean 0
RMS 0
800
700
600
500
400
300
200
100
0
0
100
200
300
400
500
600
700
800

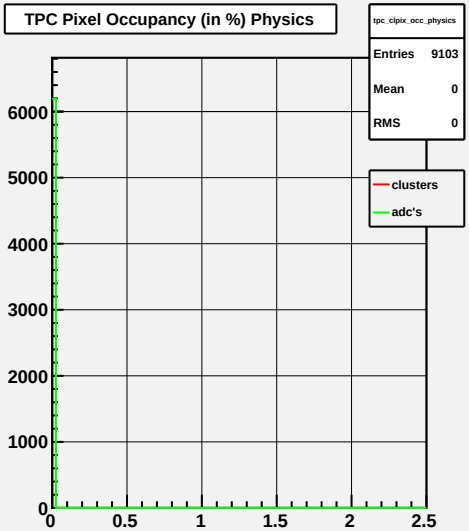

Bunch Crossing Counter (Blue)
B Events
B Filled
B Up
B Down
B Unpol
120
100
80
60
40
20
0
20
40
60
80
100

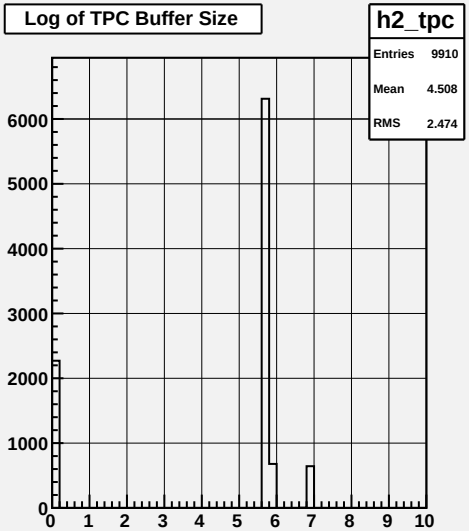

Bunch Crossing Counter (Yellow)
Y Events
Y Filled
Y Up
Y Down
Y Unpol
120
100
80
60
40
20
0
20
40
60
80
100

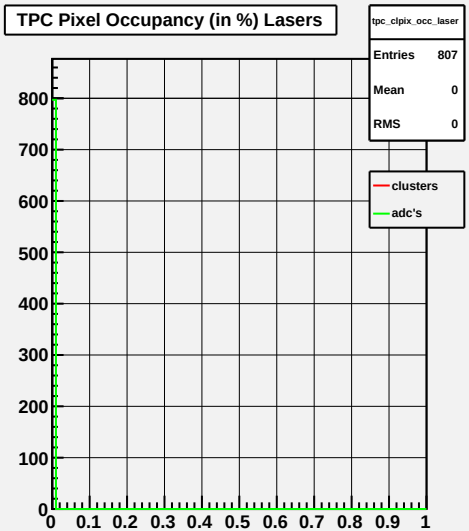

Azimuthal Distribution of TPC Charge
×10^6
700
600
500
400
300
200
100
0
-150
-100
-50
0
50
100
150
adc's
clusters

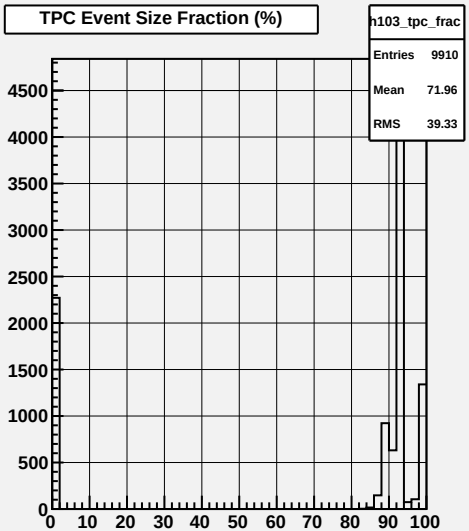

TPC Charge per Sector
×10^6
8000
7000
6000
5000
4000
3000
2000
1000
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

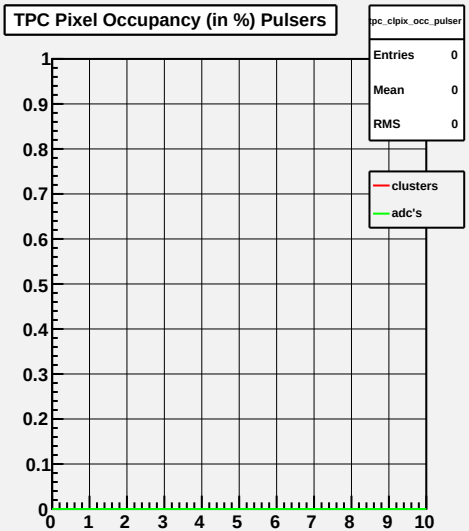

Log of Event Size
h0_evt_size
Entries 9910
Mean 5.572
RMS 0.6356

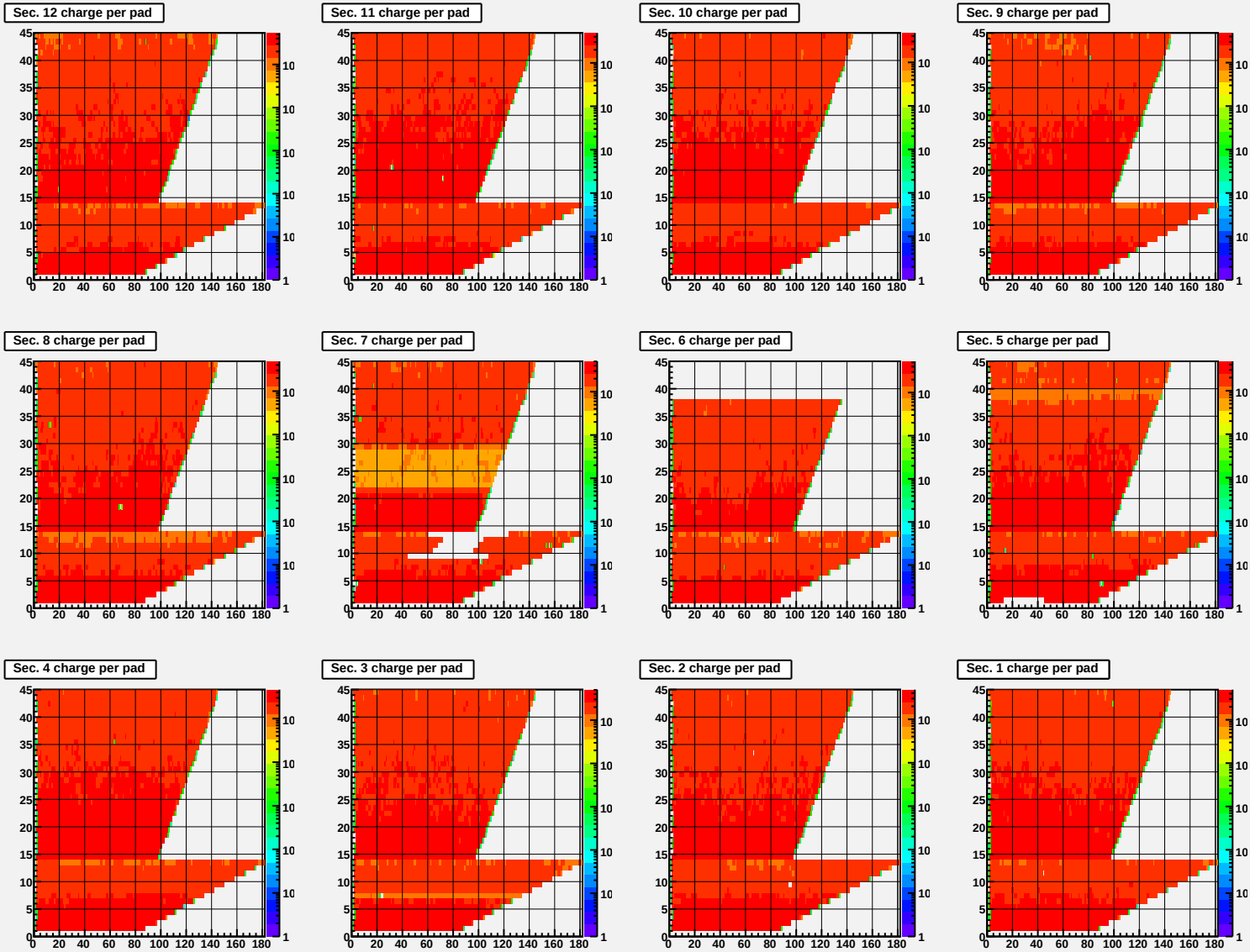

TPC Pixel Occupancy (in %) Physics
tpc_clpix_occ_physics
Entries 9103
Mean 0
RMS 0
clusters
adc's

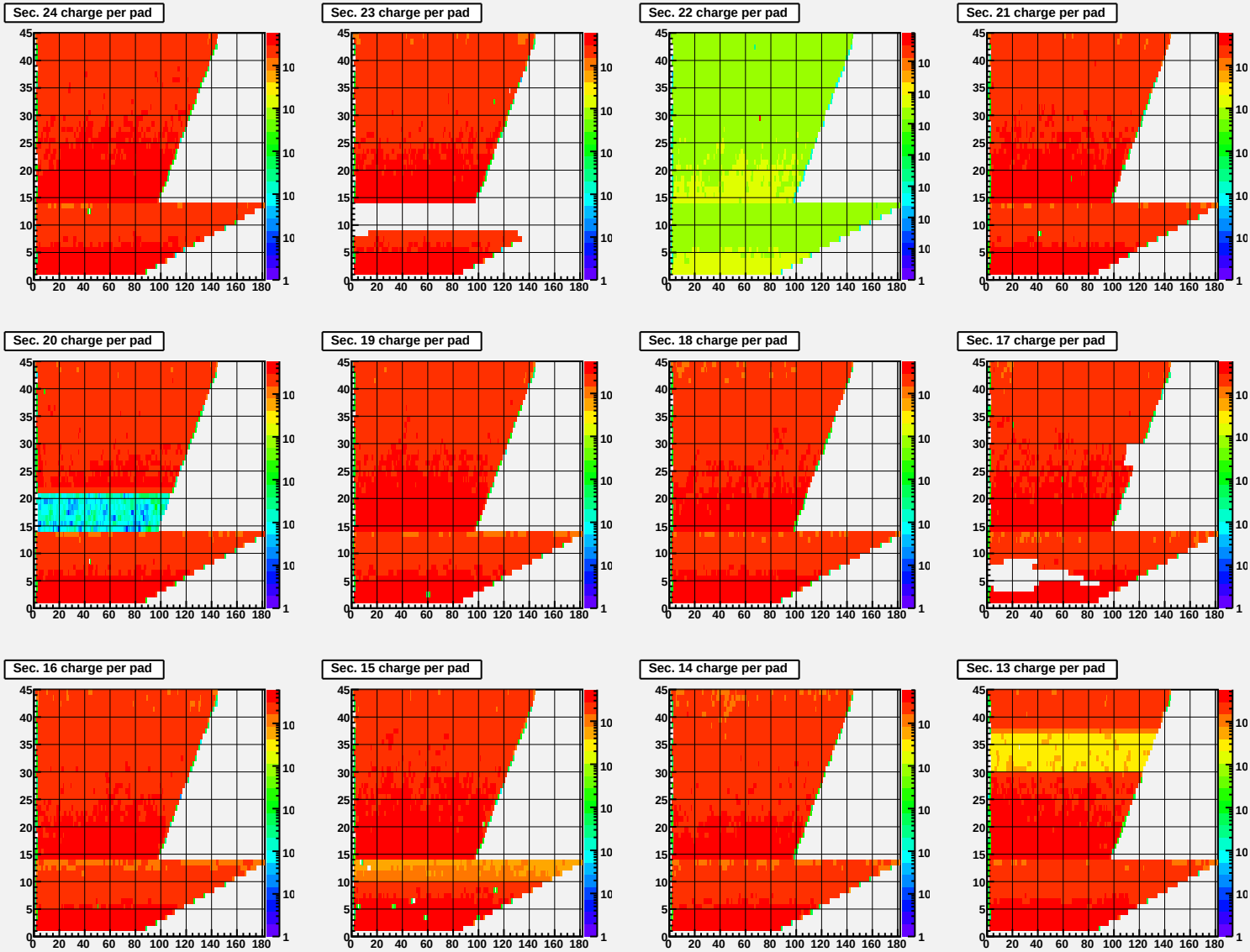

Log of TPC Buffer Size
h2_tpc
Entries 9910
Mean 4.508
RMS 2.474

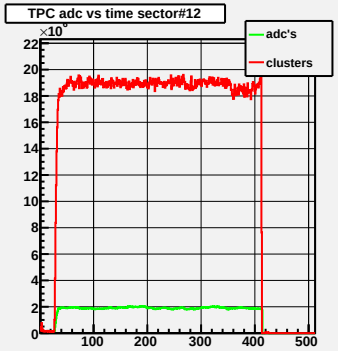

TPC Pixel Occupancy (in %) Lasers
tpc_clpix_occ_laser
Entries 807
Mean 0
RMS 0
clusters
adc's

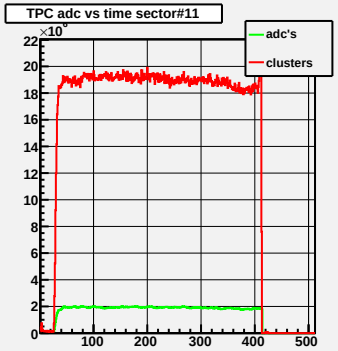

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 9910
Mean 71.96
RMS 39.33

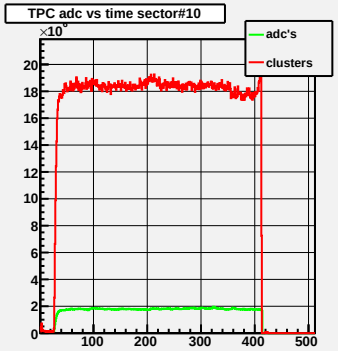

TPC Pixel Occupancy (in %) Pulsers
tpc_clpix_occ_pulser
Entries 0
Mean 0
RMS 0
clusters
adc's

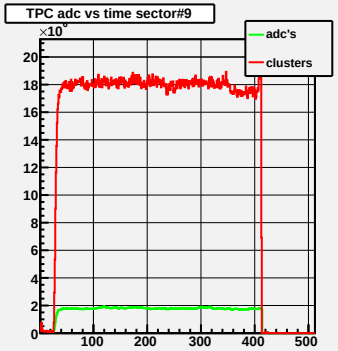

Sec. 12 charge per pad
Sec. 11 charge per pad
Sec. 10 charge per pad
Sec. 9 charge per pad
Sec. 8 charge per pad
Sec. 7 charge per pad
Sec. 6 charge per pad
Sec. 5 charge per pad
Sec. 4 charge per pad
Sec. 3 charge per pad
Sec. 2 charge per pad
Sec. 1 charge per pad

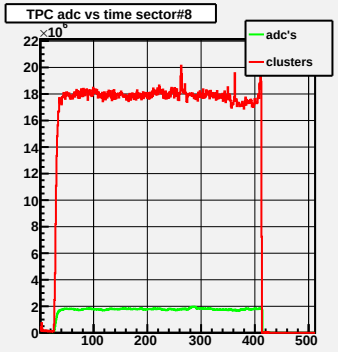

Sec. 24 charge per pad
Sec. 23 charge per pad
Sec. 22 charge per pad
Sec. 21 charge per pad
Sec. 20 charge per pad
Sec. 19 charge per pad
Sec. 18 charge per pad
Sec. 17 charge per pad
Sec. 16 charge per pad
Sec. 15 charge per pad
Sec. 14 charge per pad
Sec. 13 charge per pad

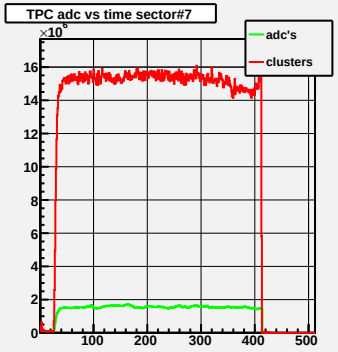

TPC adc vs time sector#12
adc's
clusters

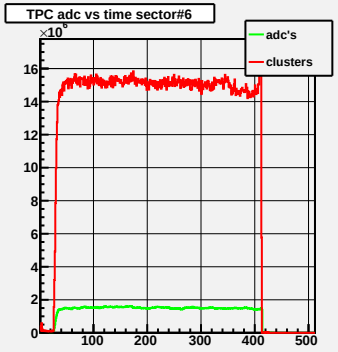

TPC adc vs time sector#11
adc's
clusters

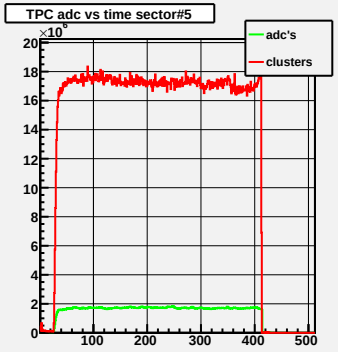

TPC adc vs time sector#10
adc's
clusters

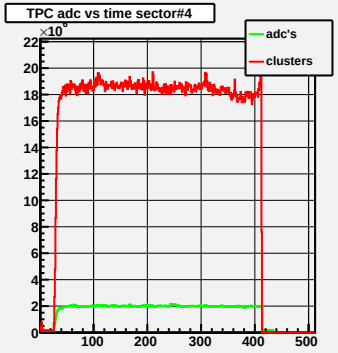

TPC adc vs time sector#9
adc's
clusters

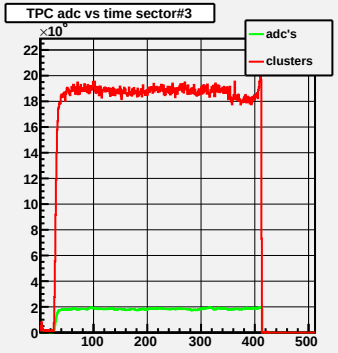

TPC adc vs time sector#8
adc's
clusters

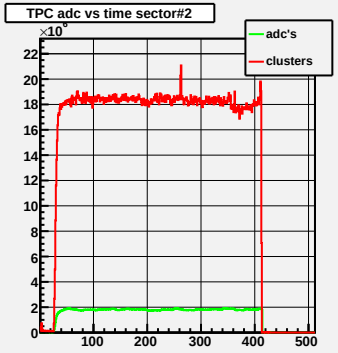

TPC adc vs time sector#7
adc's
clusters

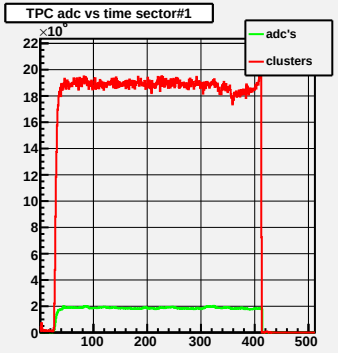

TPC adc vs time sector#6
adc's
clusters

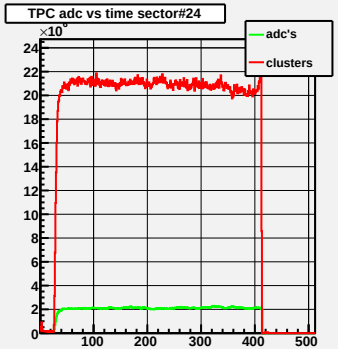

TPC adc vs time sector#5
adc's
clusters

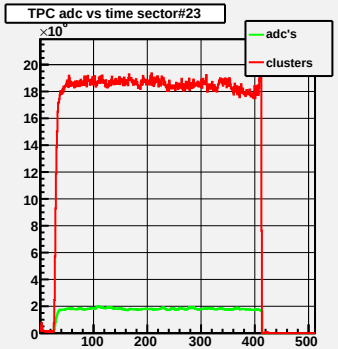

TPC adc vs time sector#4
adc's
clusters

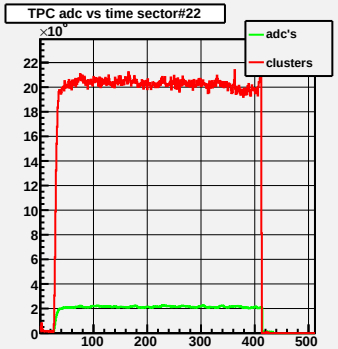

TPC adc vs time sector#3
adc's
clusters

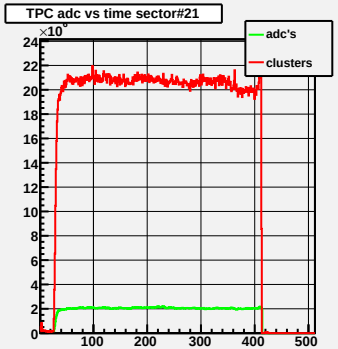

TPC adc vs time sector#2
adc's
clusters

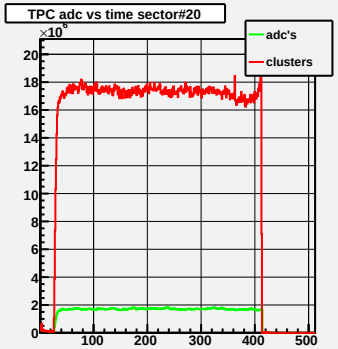

TPC adc vs time sector#1
adc's
clusters

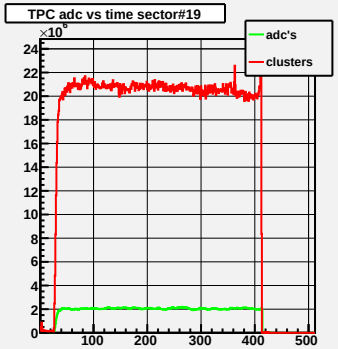

TPC adc vs time sector#24
adc's
clusters

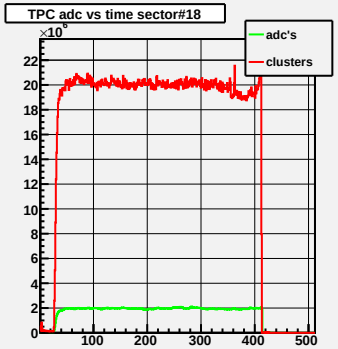

TPC adc vs time sector#23
adc's
clusters

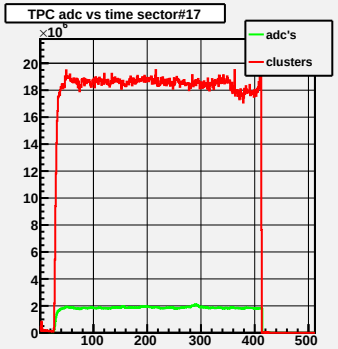

TPC adc vs time sector#22
adc's
clusters

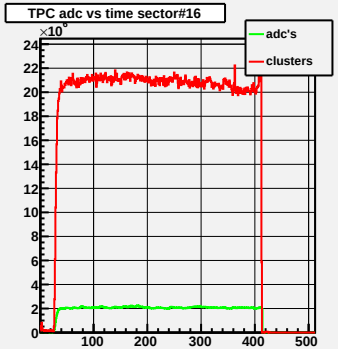

TPC adc vs time sector#21
adc's
clusters

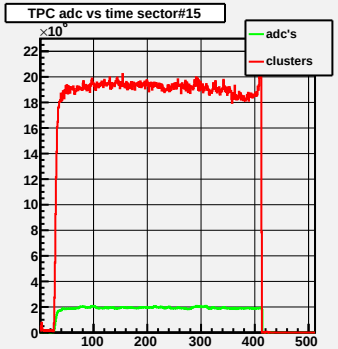

TPC adc vs time sector#20
adc's
clusters

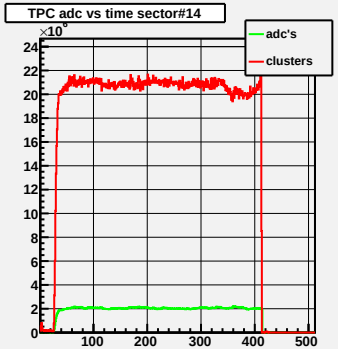

TPC adc vs time sector#19
adc's
clusters

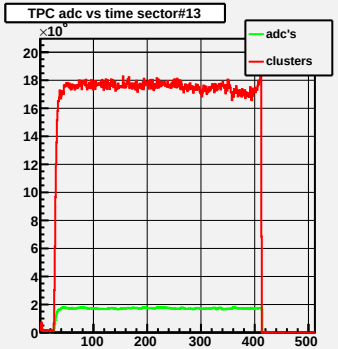

TPC adc vs time sector#18
adc's
clusters

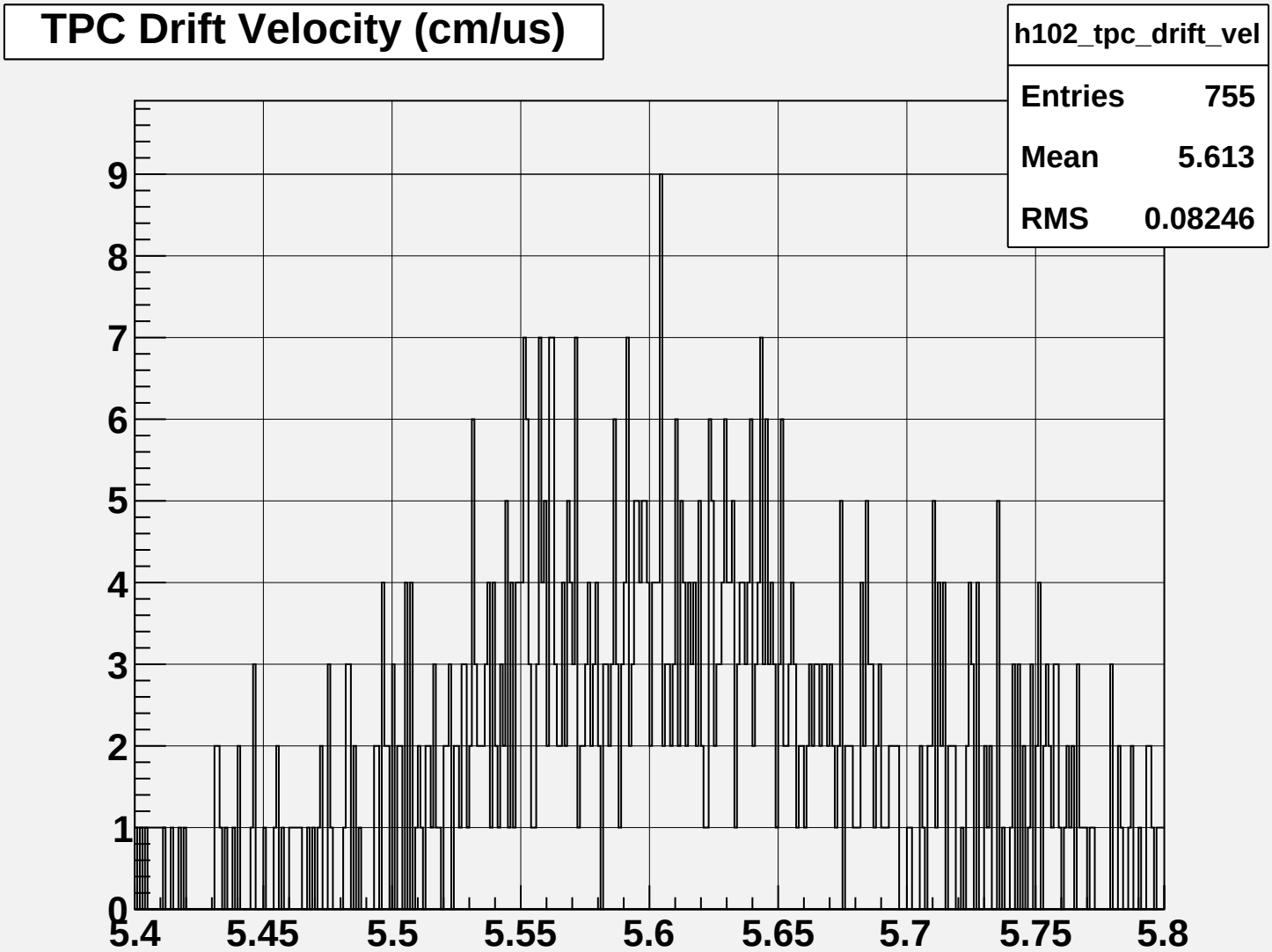

TPC adc vs time sector#17
adc's
clusters

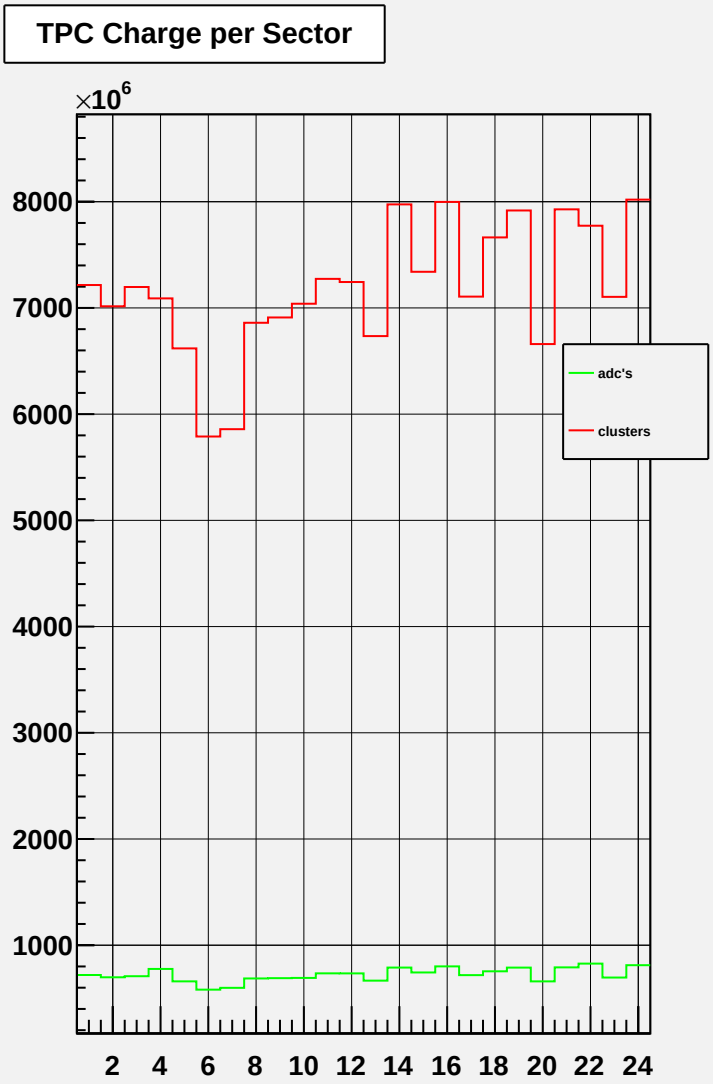

TPC adc vs time sector#16
adc's
clusters

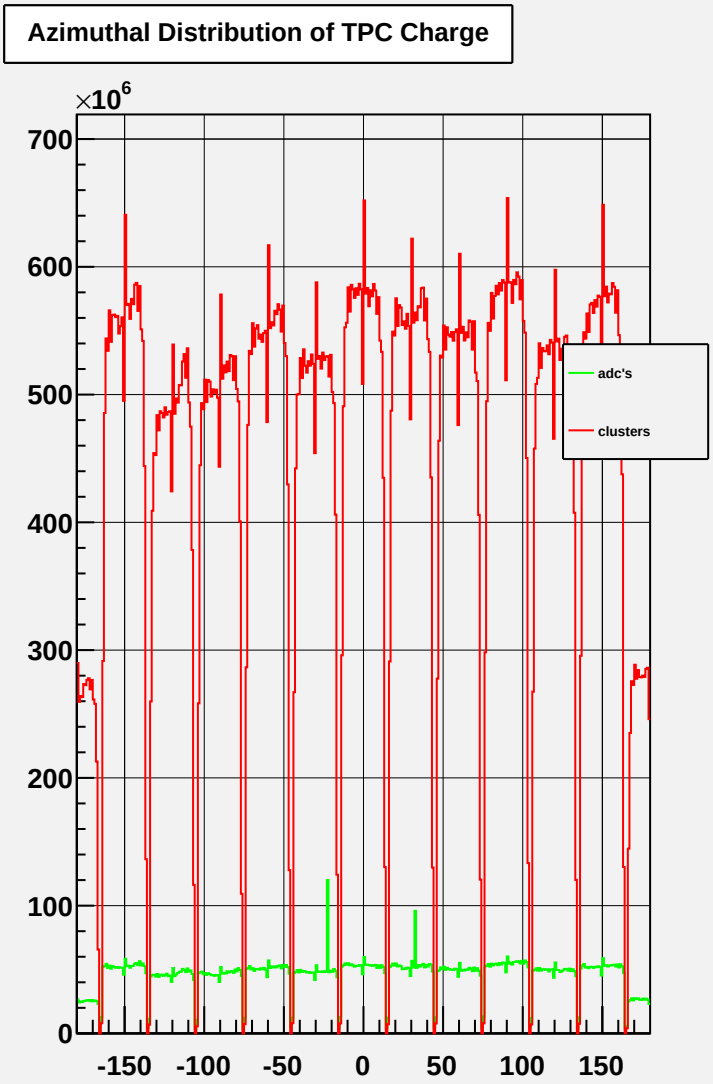

TPC adc vs time sector#15
adc's
clusters

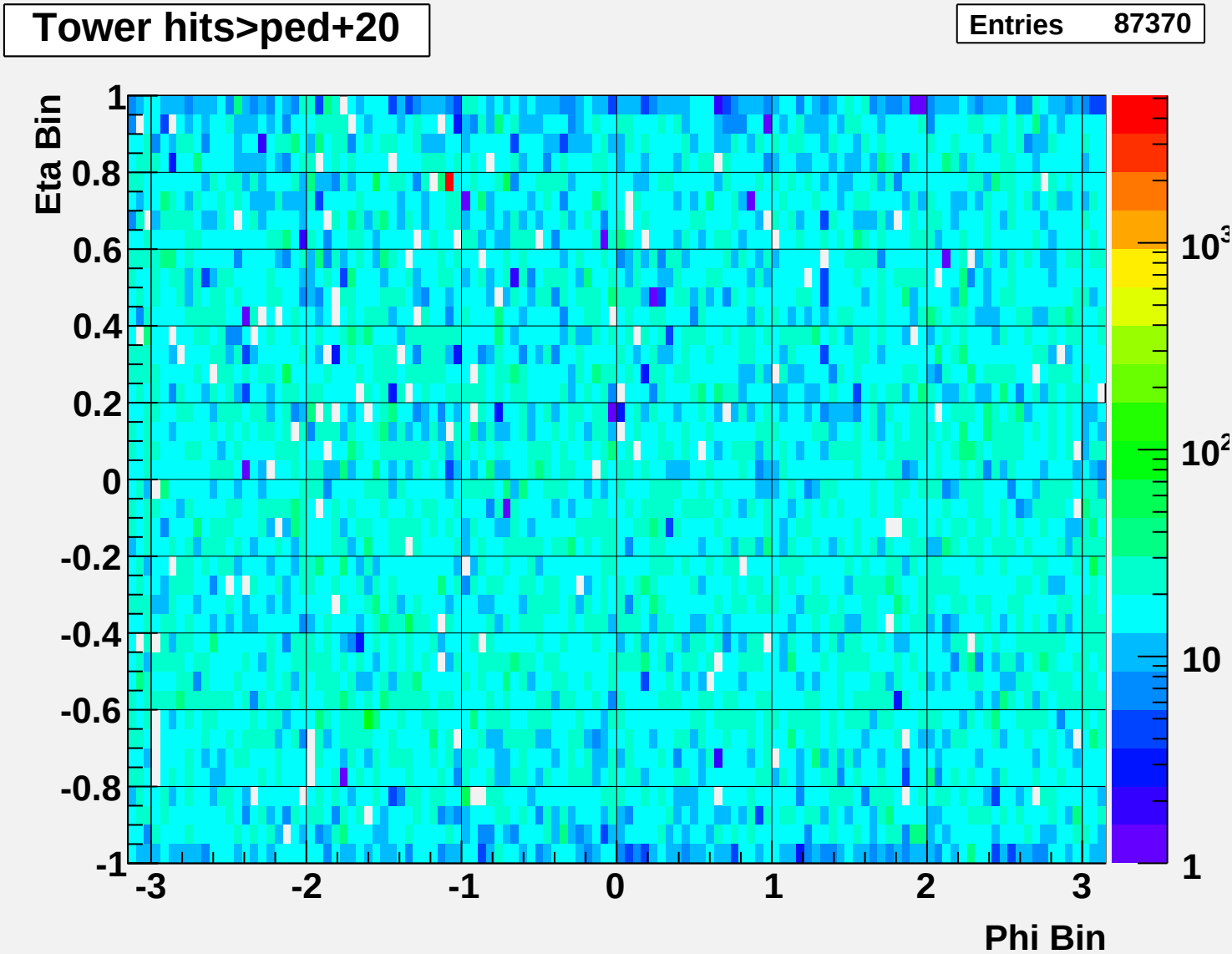

TPC adc vs time sector#14
adc's
clusters

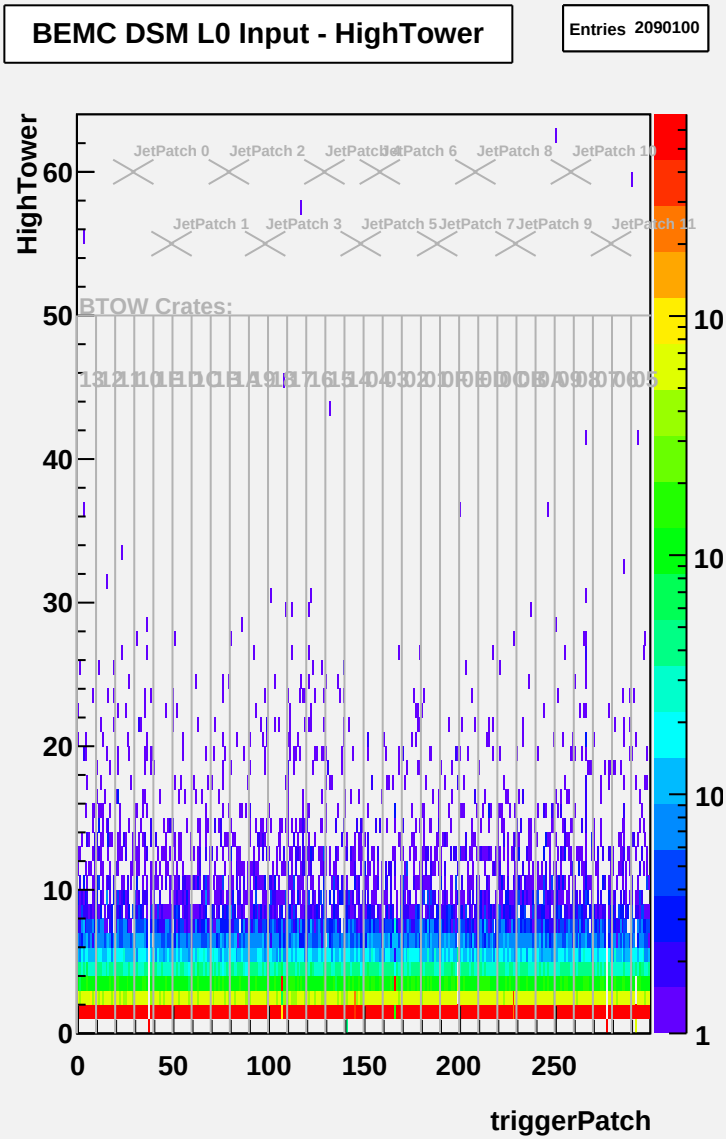

TPC adc vs time sector#13
adc's
clusters

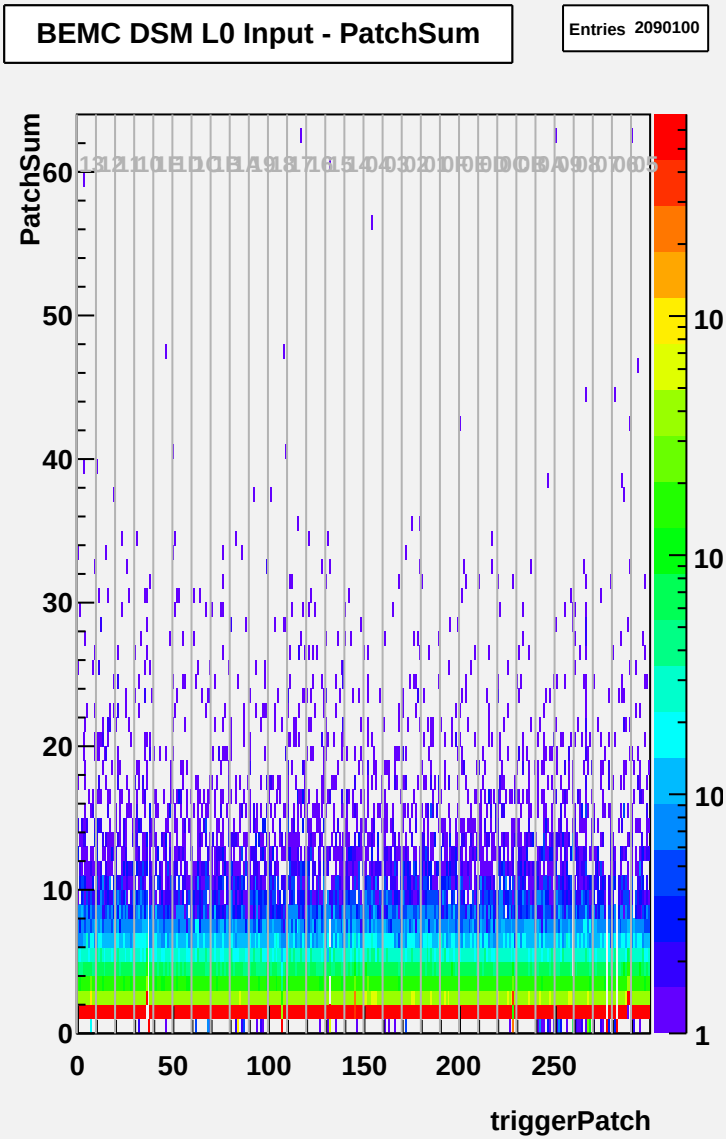

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 755
Mean 5.613
RMS 0.08246
0
1
2
3
4
5
6
7
8
9
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

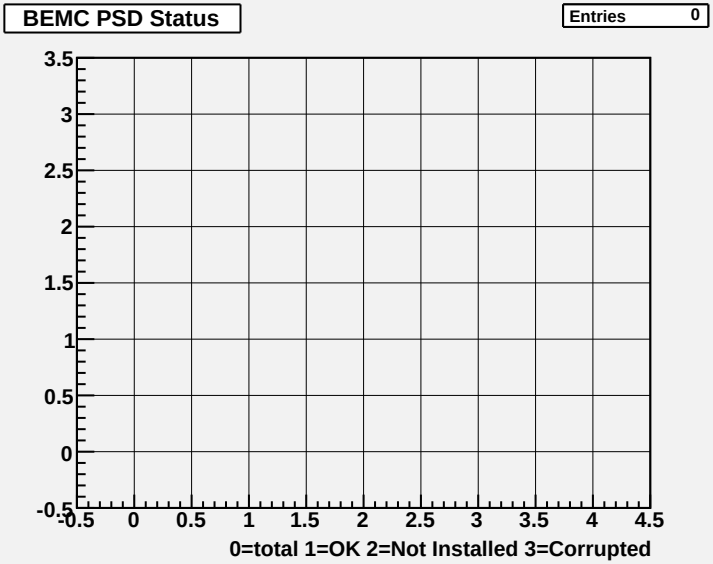

TPC Charge per Sector
×10^6
8000
7000
6000
5000
4000
3000
2000
1000
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

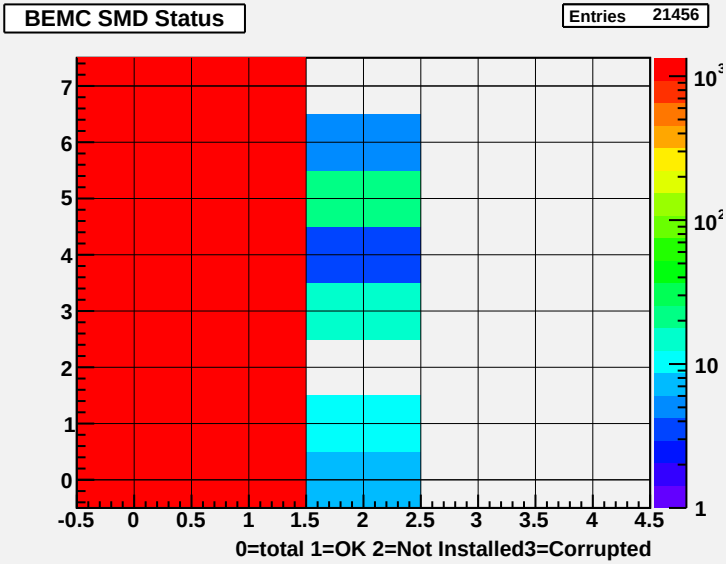

Azimuthal Distribution of TPC Charge
×10^6
700
600
500
400
300
200
100
0
-150
-100
-50
0
50
100
150
adc's
clusters

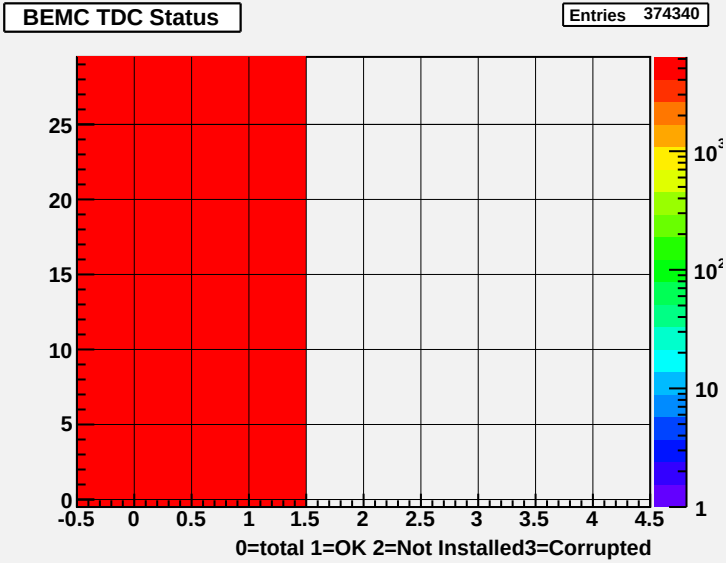

Tower hits>ped+20
Entries 87370
Eta Bin
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-3
-2
-1
0
1
2
3
Phi Bin
10^3
10^2
10
1

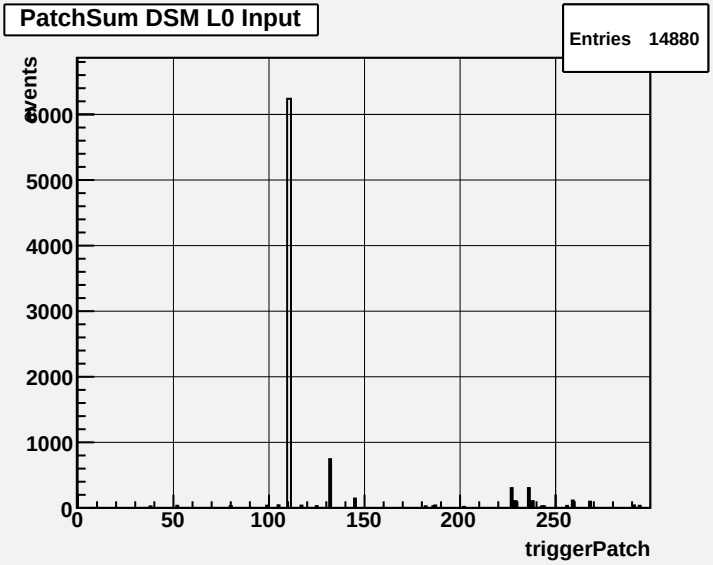

BEMC DSM L0 Input - HighTower
Entries 2090100
HighTower
triggerPatch
JetPatch 0
JetPatch 1
JetPatch 2
JetPatch 3
JetPatch 5
JetPatch 6
JetPatch 7
JetPatch 8
JetPatch 9
JetPatch 10
JetPatch 11
BTOW Crates:

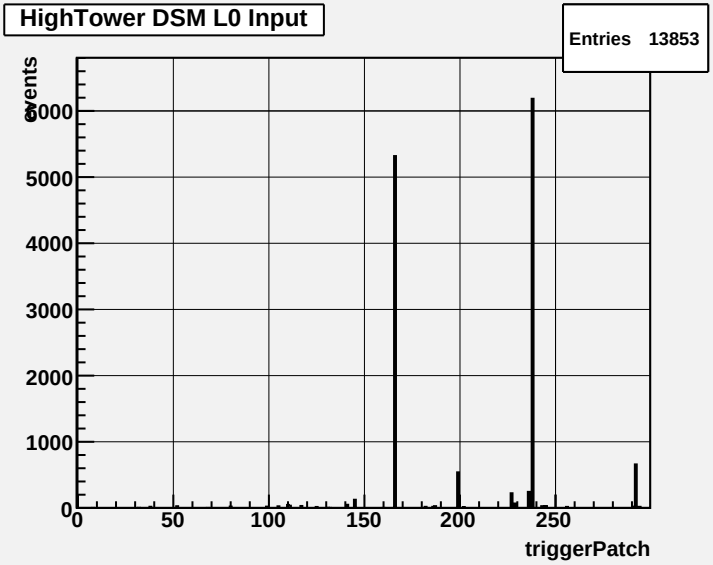

BEMC DSM L0 Input - PatchSum
Entries 2090100
PatchSum
triggerPatch

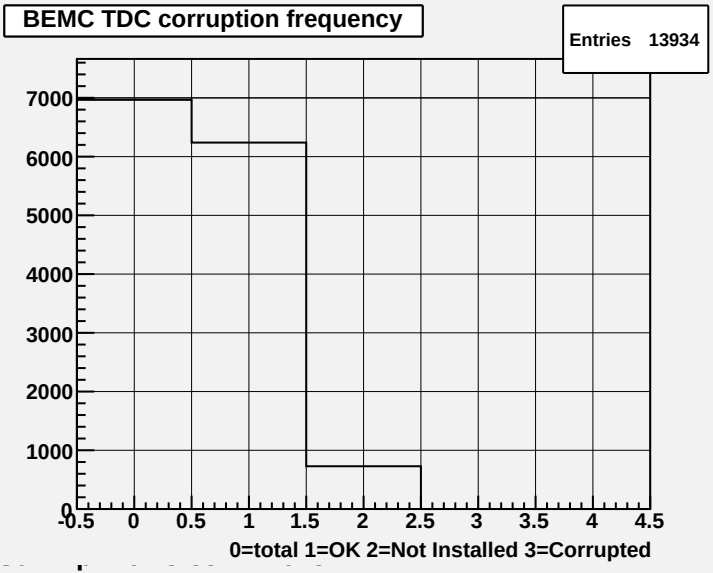

BEMC PSD Status
Entries 0
0=total 1=OK 2=Not Installed 3=Corrupted

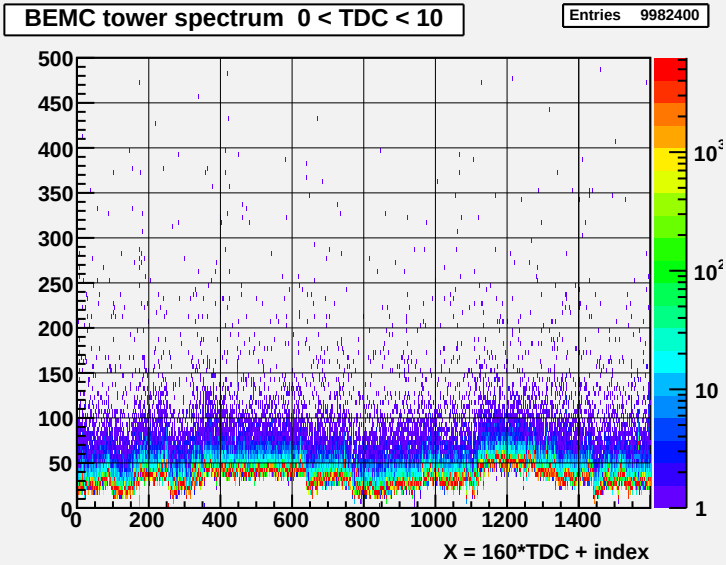

BEMC SMD Status
Entries 21456
0=total 1=OK 2=Not Installed3=Corrupted

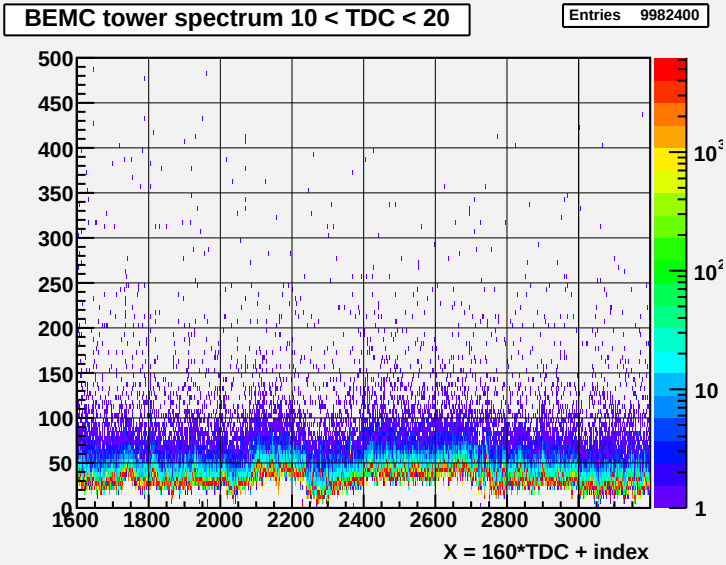

BEMC TDC Status
Entries 374340
0=total 1=OK 2=Not Installed3=Corrupted

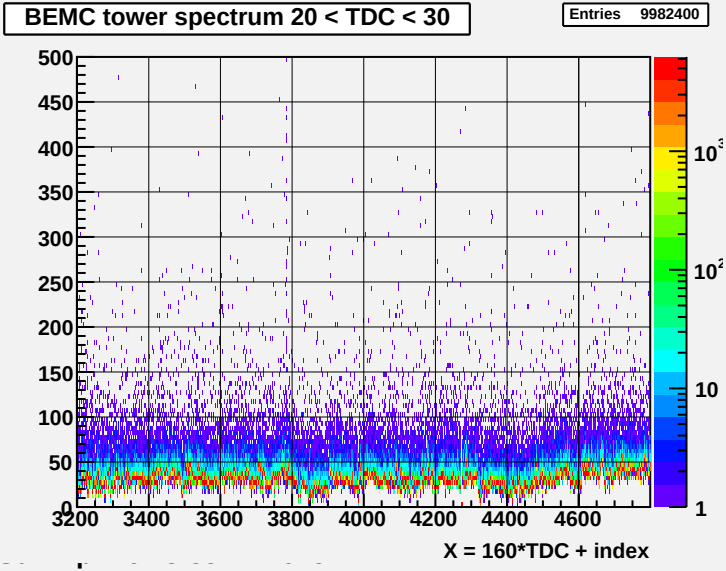

PatchSum DSM L0 Input
Entries 14880
events
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
triggerPatch

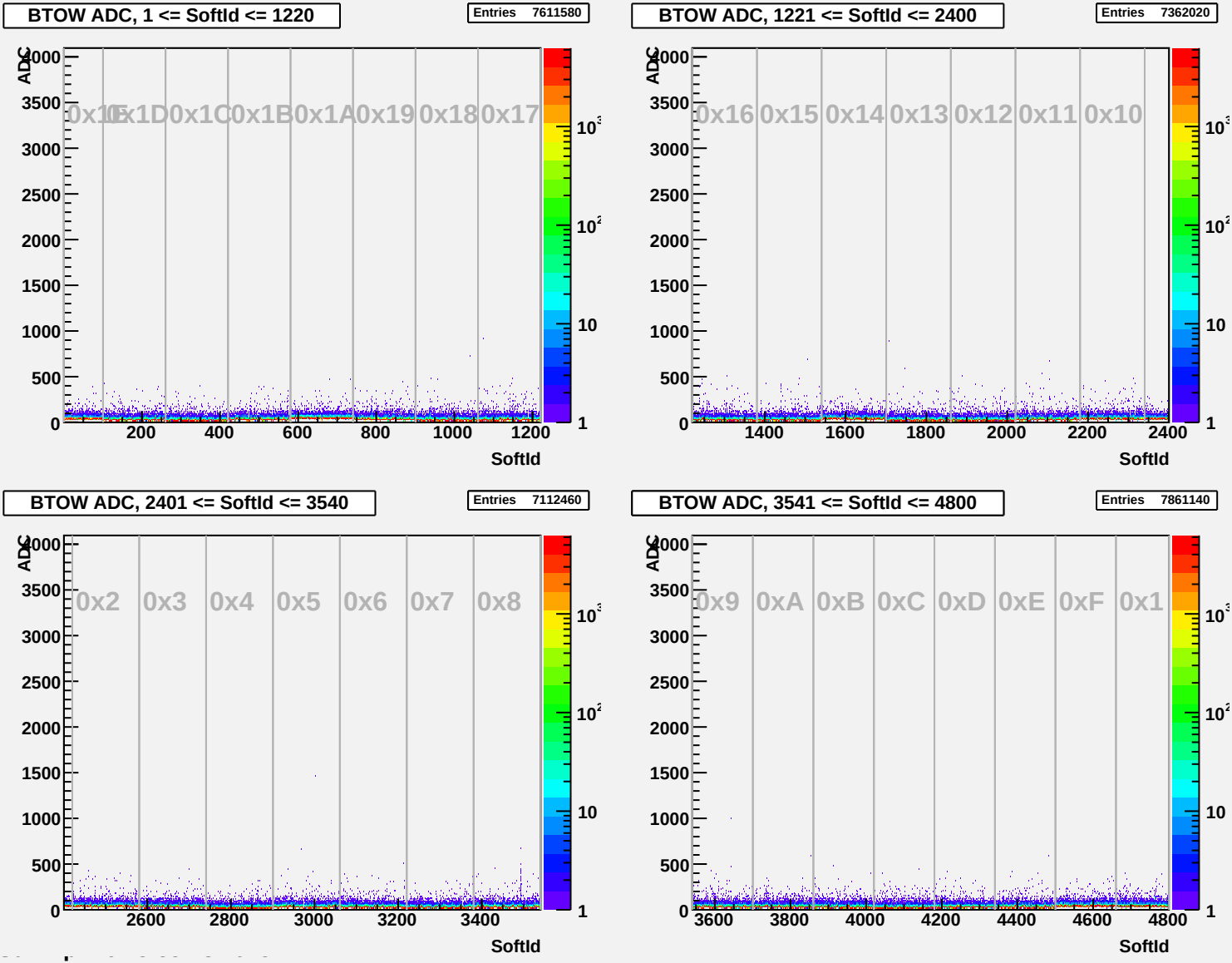

HighTower DSM L0 Input
Entries 13853
events
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
triggerPatch

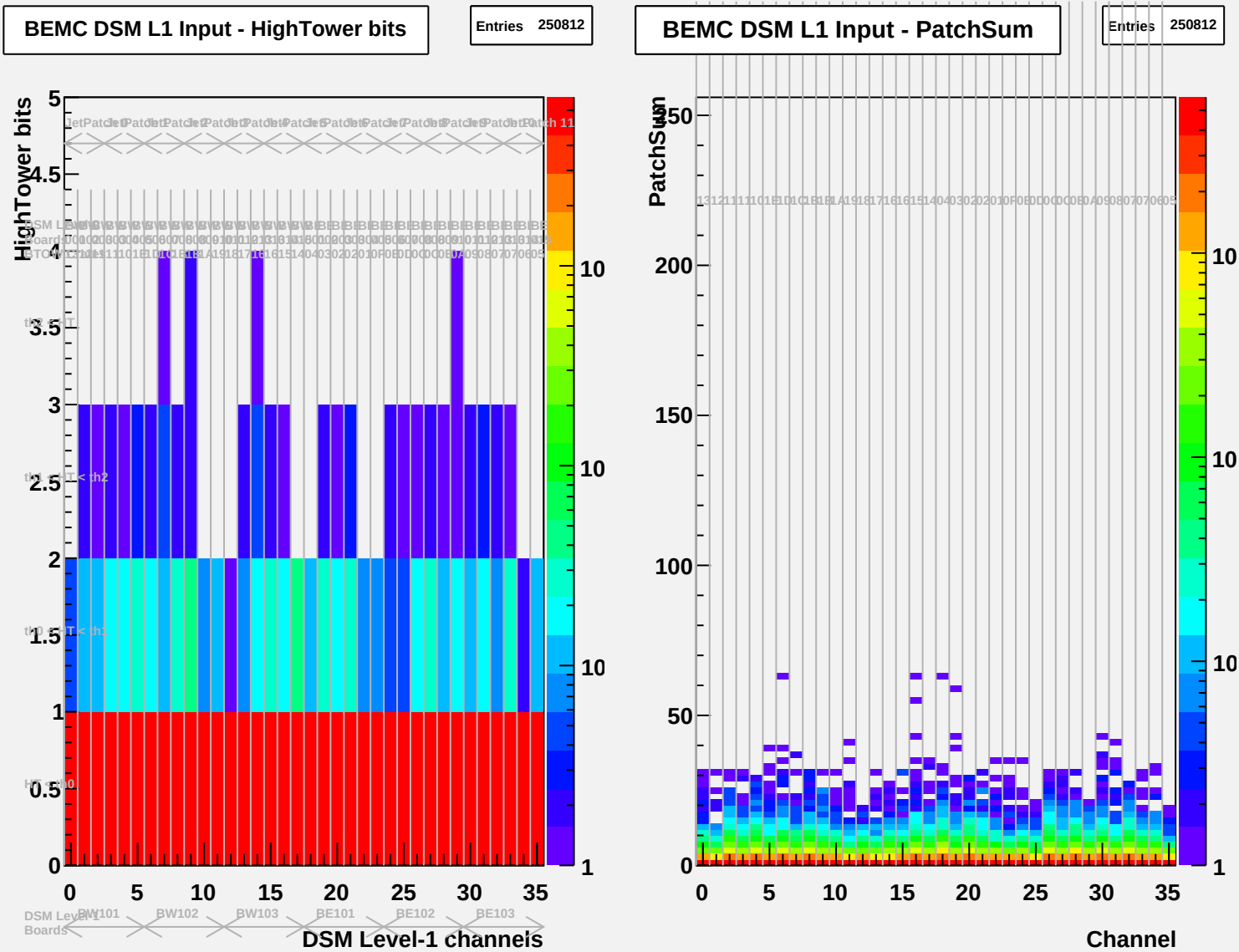

BEMC TDC corruption frequency
Entries 13934
7000
6000
5000
4000
3000
2000
1000
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0=total 1=OK 2=Not Installed 3=Corrupted

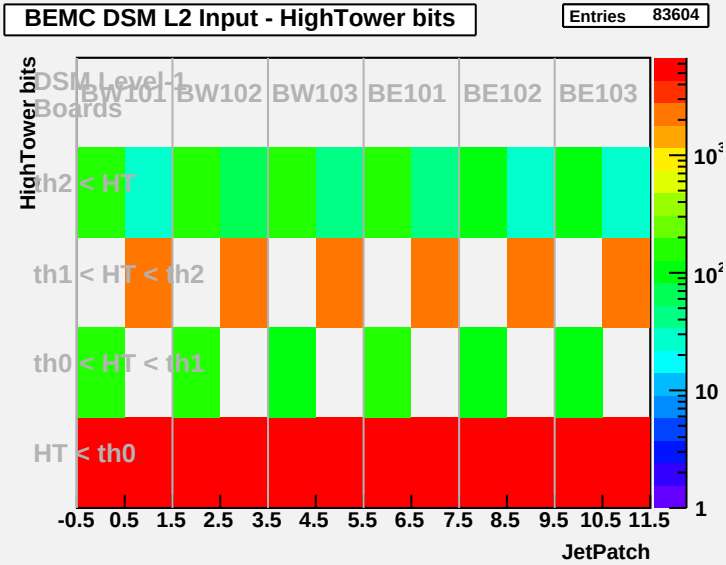

BEMC tower spectrum 0 < TDC < 10
Entries 9982400
X = 160*TDC + index

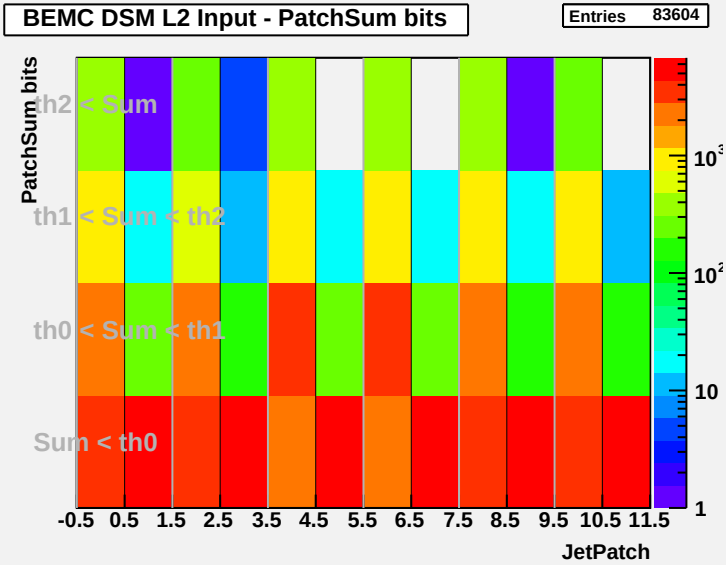

BEMC tower spectrum 10 < TDC < 20
Entries 9982400
X = 160*TDC + index

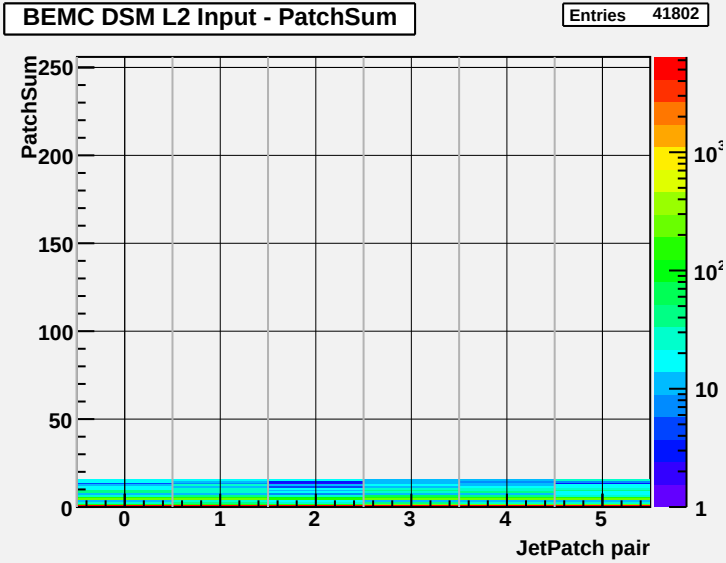

BEMC tower spectrum 20 < TDC < 30
Entries 9982400
X = 160*TDC + index

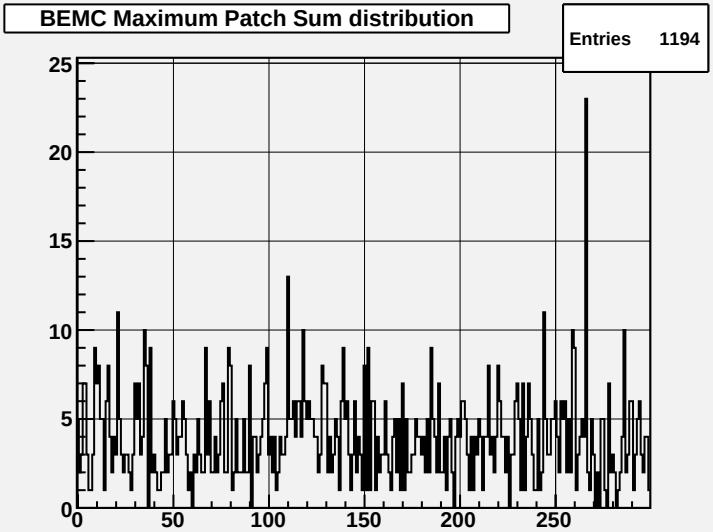

BTOW ADC, 1 <= SoftId <= 1220
Entries 7611580
ADC
SoftId
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
BTOW ADC, 1221 <= SoftId <= 2400
Entries 7362020
ADC
SoftId
0x16 0x15 0x14 0x13 0x12 0x11 0x10
BTOW ADC, 2401 <= SoftId <= 3540
Entries 7112460
ADC
SoftId
0x2 0x3 0x4 0x5 0x6 0x7 0x8
BTOW ADC, 3541 <= SoftId <= 4800
Entries 7861140
ADC
SoftId
0x9 0xA 0xB 0xC 0xD 0xE 0xF 0x1

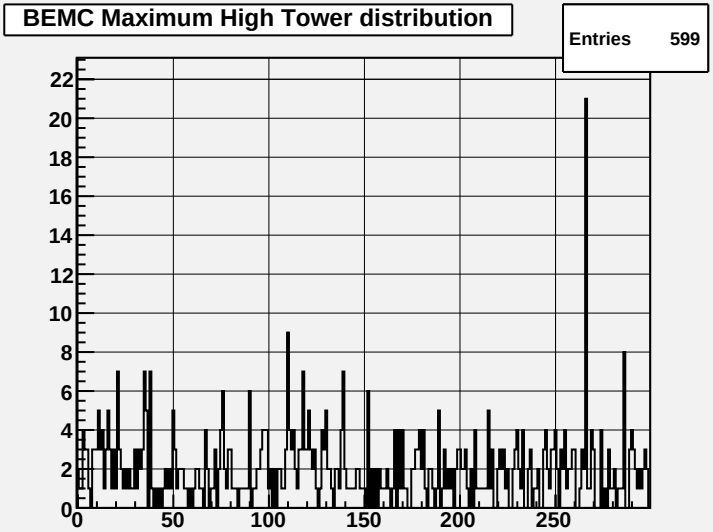

BEMC DSM L1 Input - HighTower bits
Entries 250812
HighTower bits
DSM Level-1 channels
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103
BEMC DSM L1 Input - PatchSum
Entries 250812
PatchSum
Channel

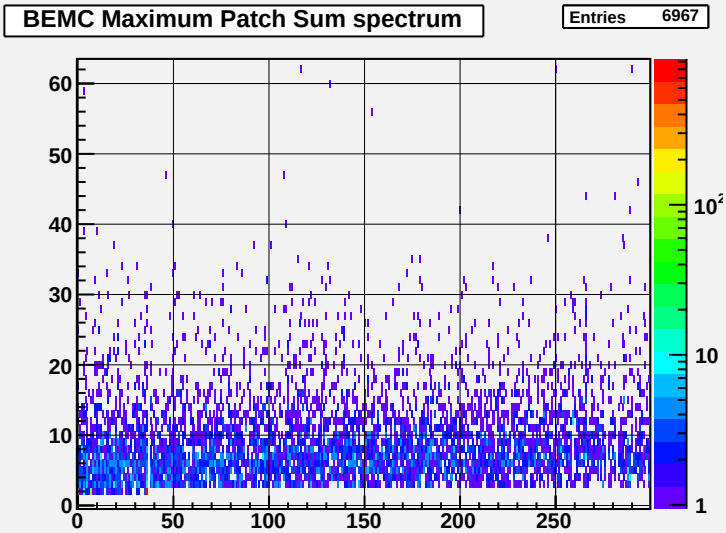

BEMC DSM L2 Input - HighTower bits
Entries 83604
DSM Level-1 Boards
BW101 BW102 BW103 BE101 BE102 BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
HighTower bits
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
1
10
10²
10³

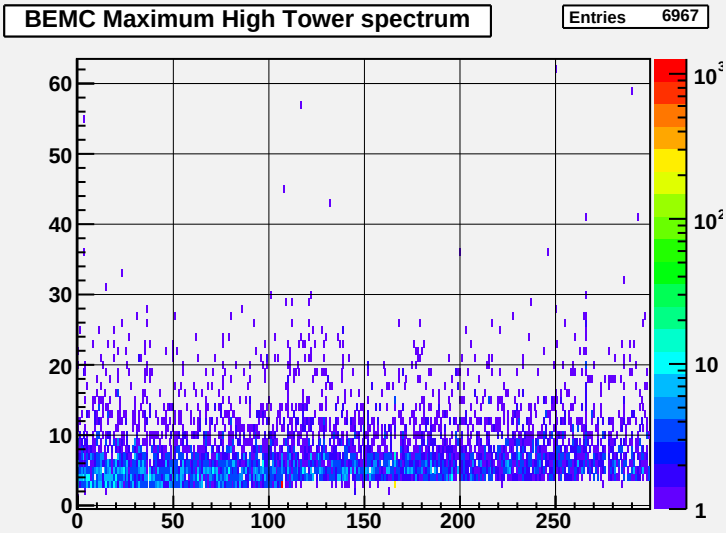

BEMC DSM L2 Input - PatchSum bits
Entries 83604
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
PatchSum bits
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
1
10
10²
10³

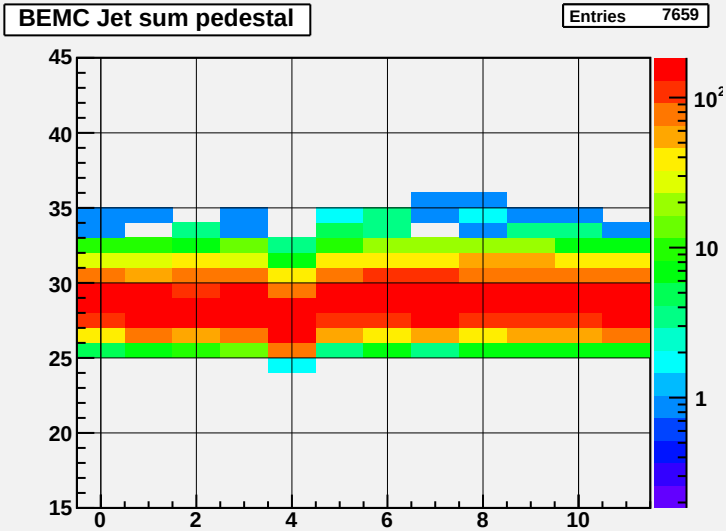

BEMC DSM L2 Input - PatchSum
Entries 41802
PatchSum
0 50 100 150 200 250
0 1 2 3 4 5
JetPatch pair
1
10
10²
10³

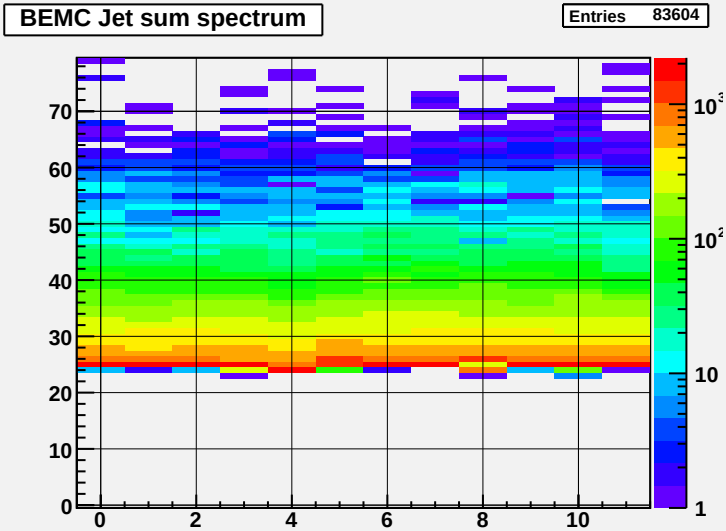

BEMC Maximum Patch Sum distribution
Entries 1194
0
5
10
15
20
25
0
50
100
150
200
250

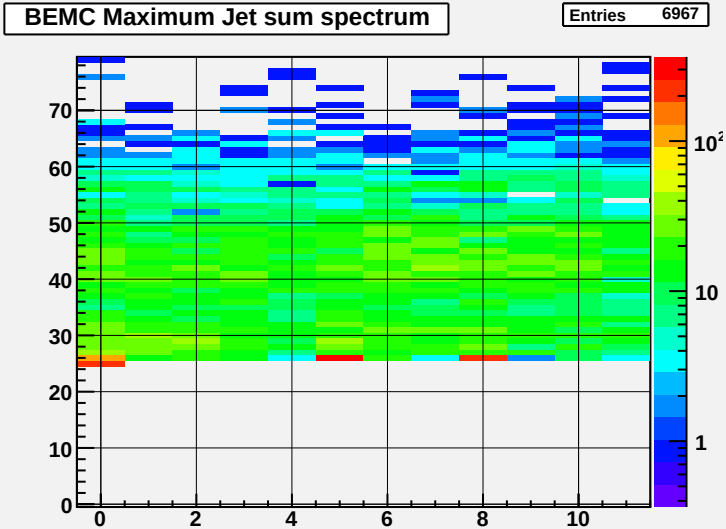

BEMC Maximum High Tower distribution
Entries 599
0
2
4
6
8
10
12
14
16
18
20
22
0
50
100
150
200
250

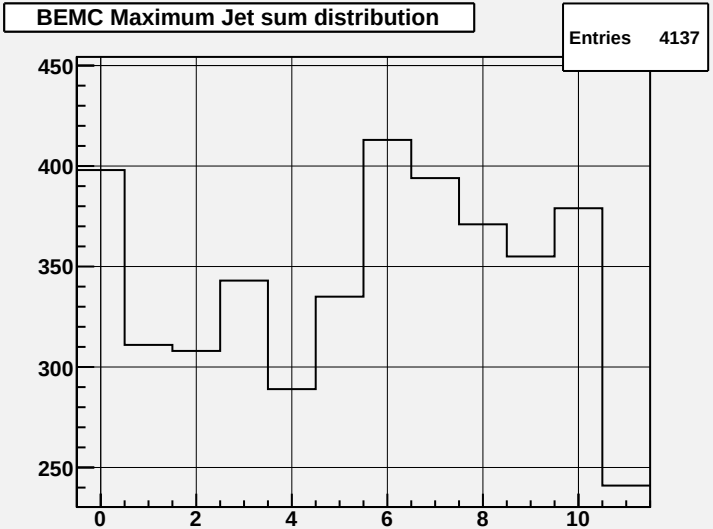

BEMC Maximum Patch Sum spectrum
Entries 6967
0
10
20
30
40
50
60
0
50
100
150
200
250
1
10
10²

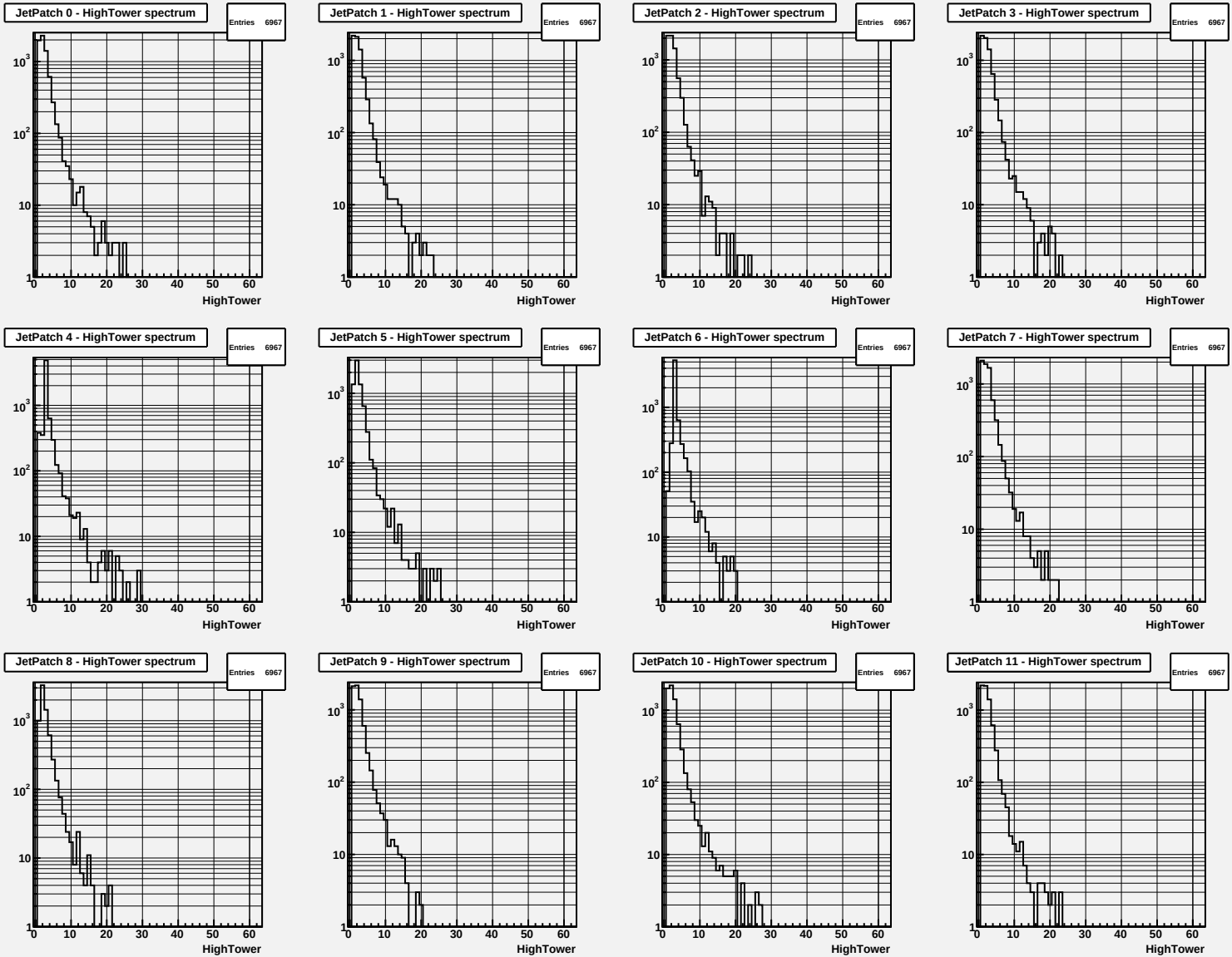

BEMC Maximum High Tower spectrum
Entries 6967
0
10
20
30
40
50
60
0
50
100
150
200
250
1
10
10²
10³

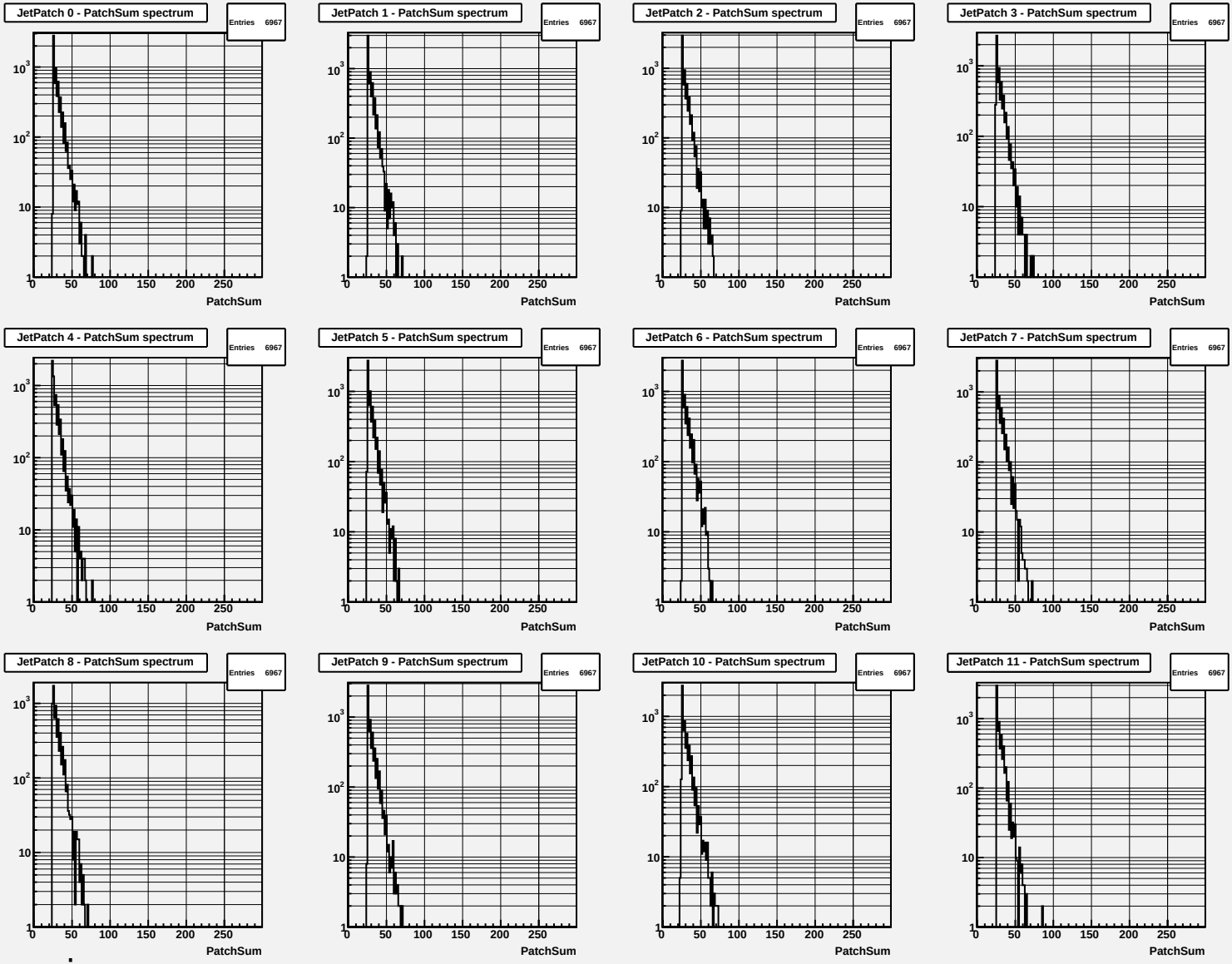

BEMC Jet sum pedestal
Entries 7659

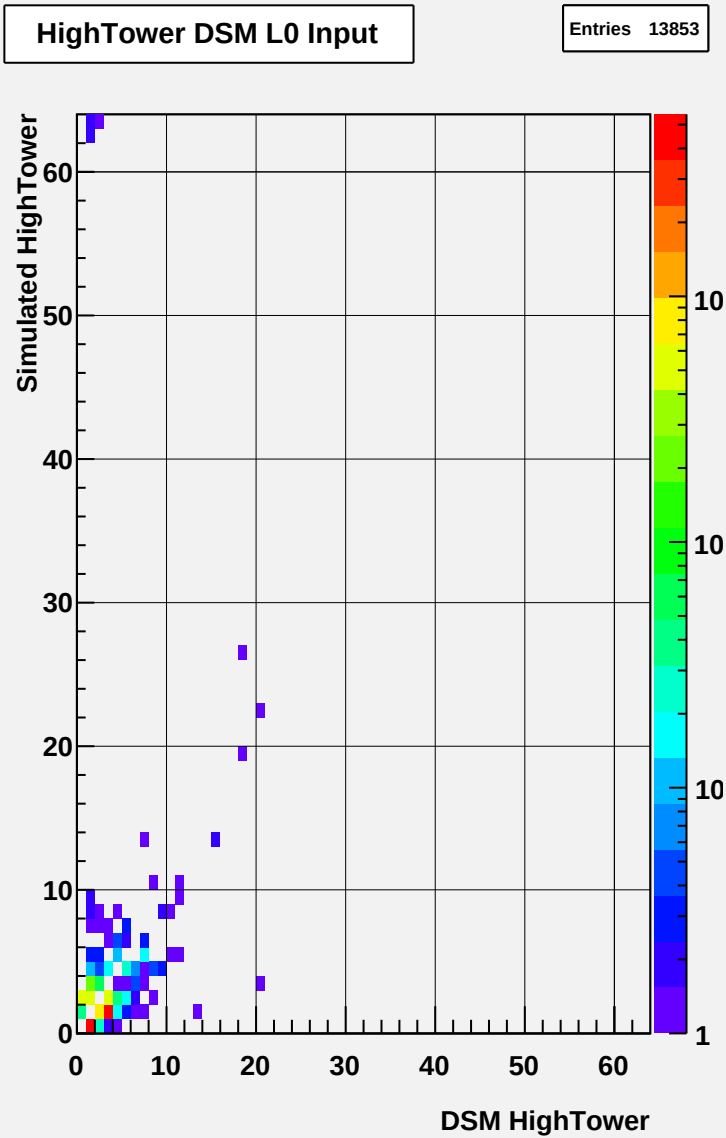

BEMC Jet sum spectrum
Entries 83604

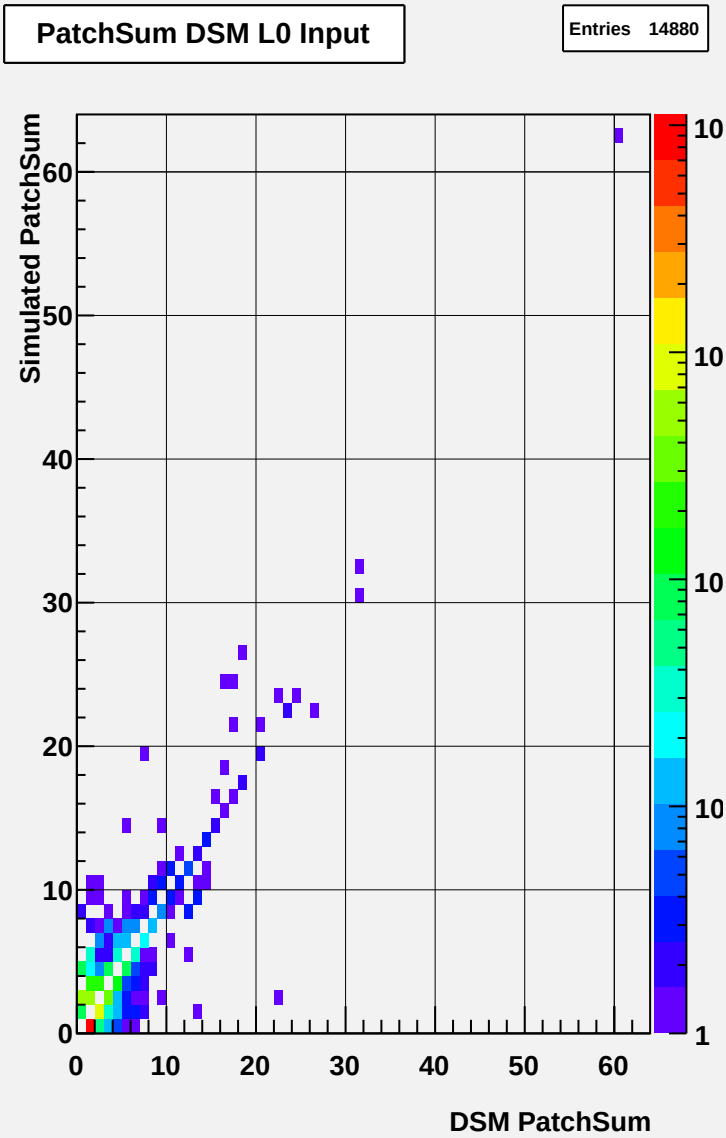

BEMC Maximum Jet sum spectrum
Entries 6967

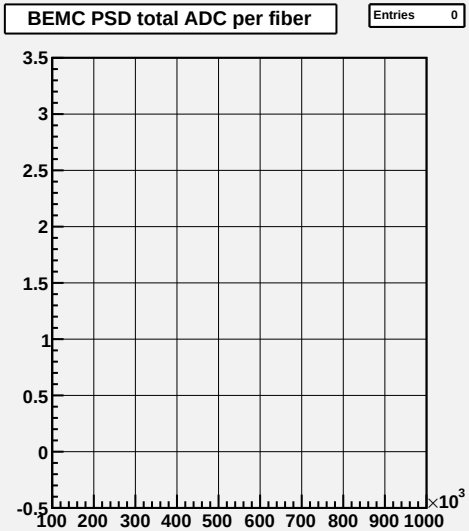

BEMC Maximum Jet sum distribution
Entries 4137

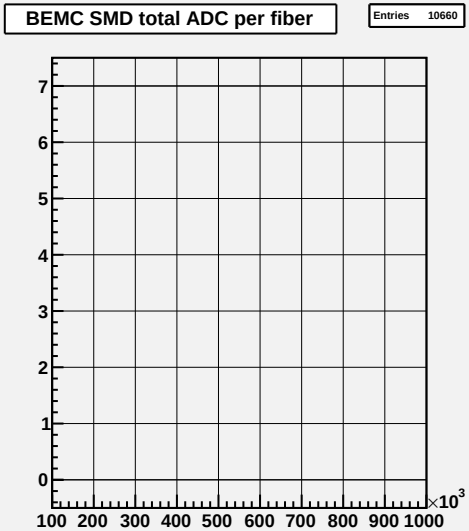

JetPatch 0 - HighTower spectrum
JetPatch 1 - HighTower spectrum
JetPatch 2 - HighTower spectrum
JetPatch 3 - HighTower spectrum
JetPatch 4 - HighTower spectrum
JetPatch 5 - HighTower spectrum
JetPatch 6 - HighTower spectrum
JetPatch 7 - HighTower spectrum
JetPatch 8 - HighTower spectrum
JetPatch 9 - HighTower spectrum
JetPatch 10 - HighTower spectrum
JetPatch 11 - HighTower spectrum
Entries 6967
HighTower

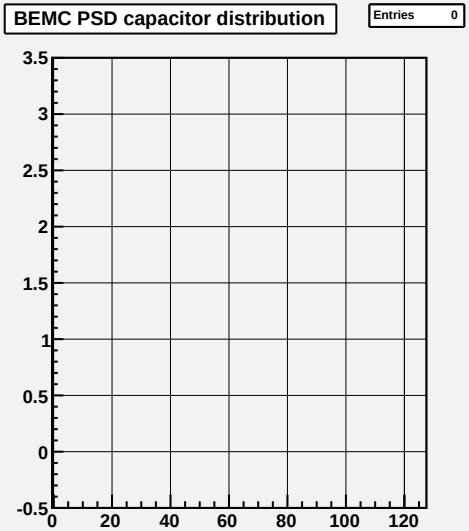

JetPatch 0 - PatchSum spectrum
JetPatch 1 - PatchSum spectrum
JetPatch 2 - PatchSum spectrum
JetPatch 3 - PatchSum spectrum
JetPatch 4 - PatchSum spectrum
JetPatch 5 - PatchSum spectrum
JetPatch 6 - PatchSum spectrum
JetPatch 7 - PatchSum spectrum
JetPatch 8 - PatchSum spectrum
JetPatch 9 - PatchSum spectrum
JetPatch 10 - PatchSum spectrum
JetPatch 11 - PatchSum spectrum
Entries 6967
PatchSum

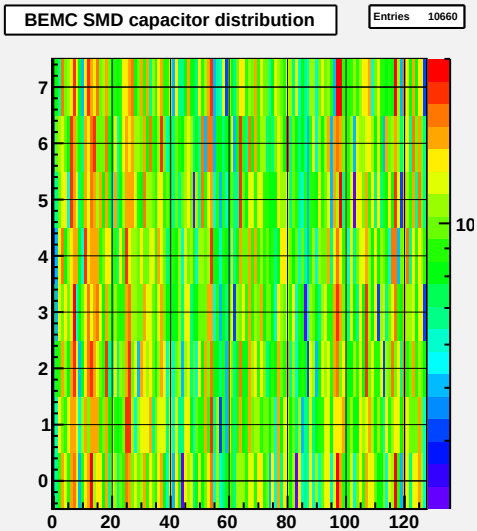

HighTower DSM L0 Input
Entries 13853
Simulated HighTower
DSM HighTower
0
10
20
30
40
50
60
1
10
10
10

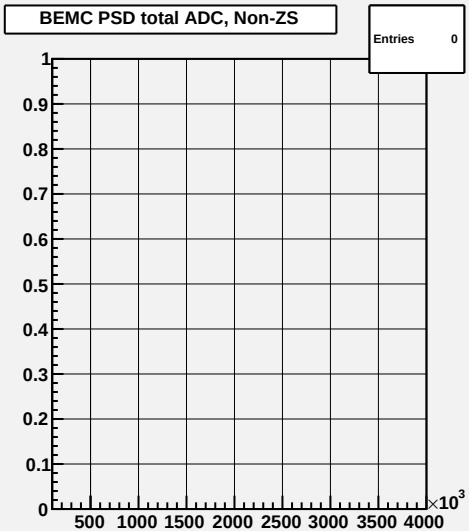

PatchSum DSM L0 Input
Entries 14880
Simulated PatchSum
DSM PatchSum
0
10
20
30
40
50
60
1
10
10
10
10

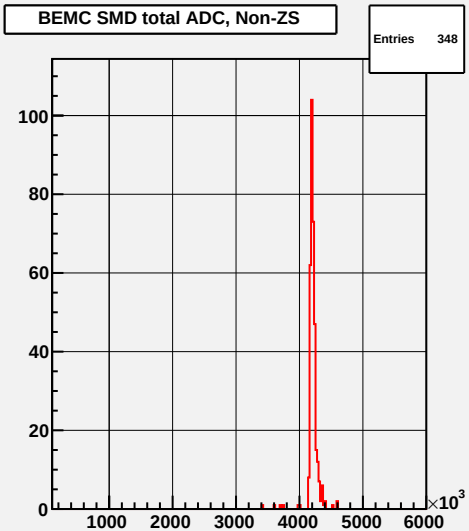

BEMC PSD total ADC per fiber
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
100 200 300 400 500 600 700 800 900 1000
×10^3

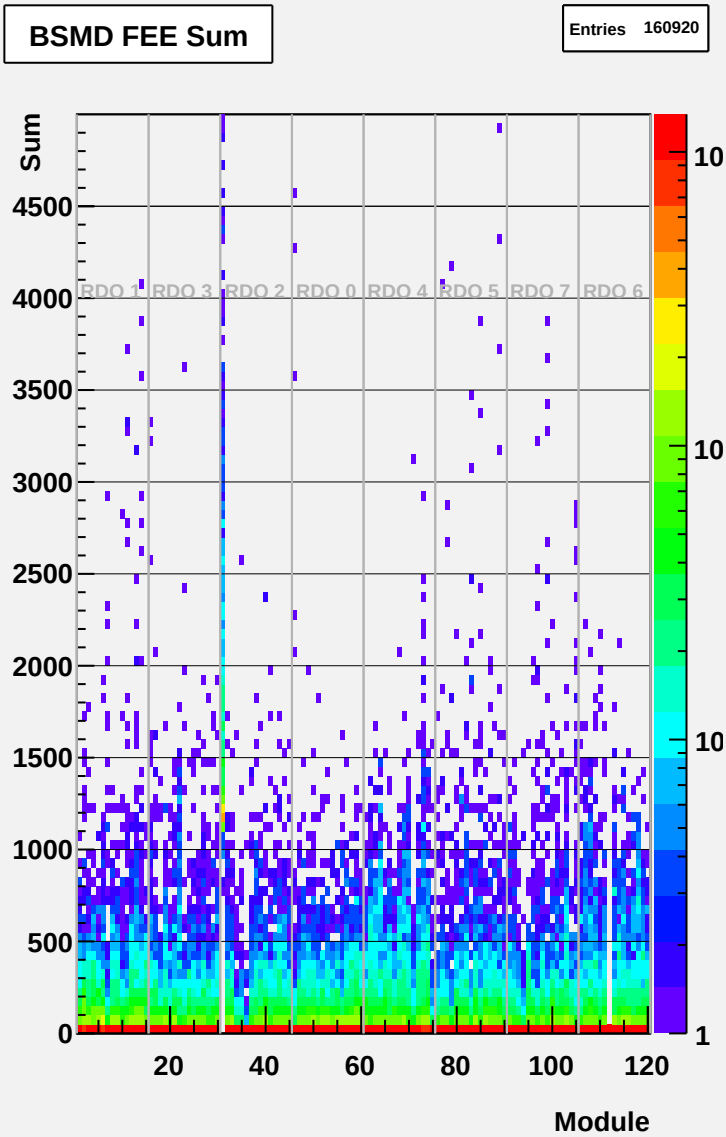

BEMC SMD total ADC per fiber
Entries 10660
7
6
5
4
3
2
1
0
100 200 300 400 500 600 700 800 900 1000
×10^3

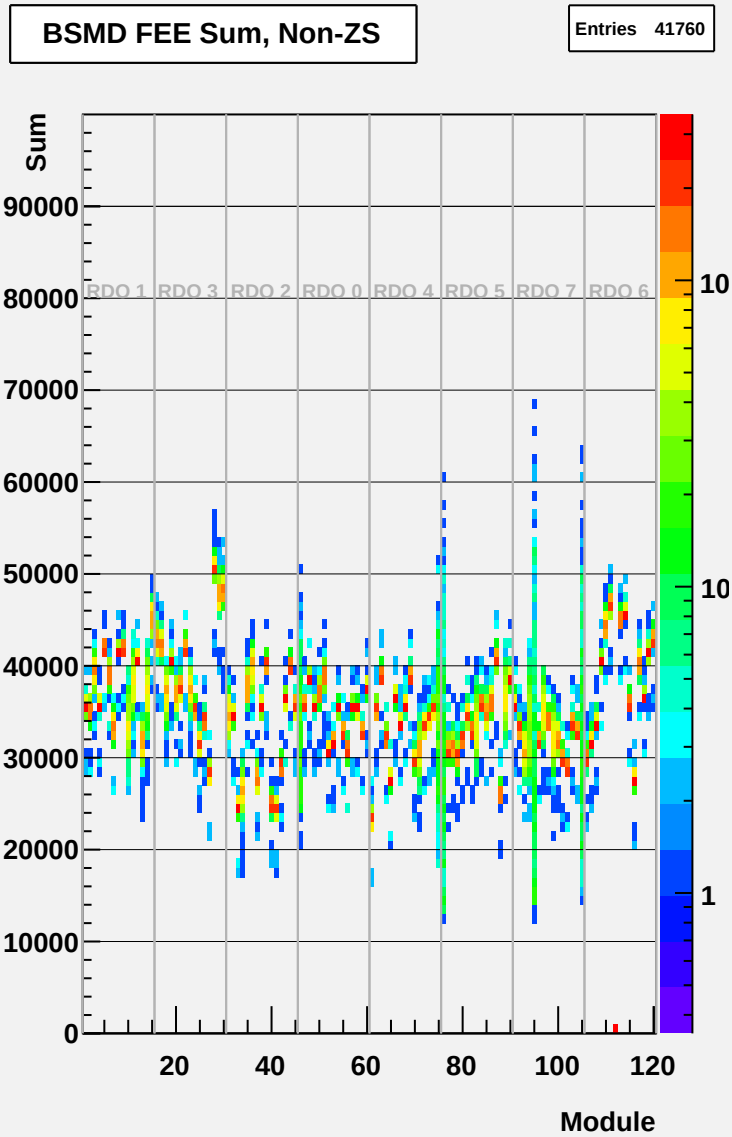

BEMC PSD capacitor distribution
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0 20 40 60 80 100 120

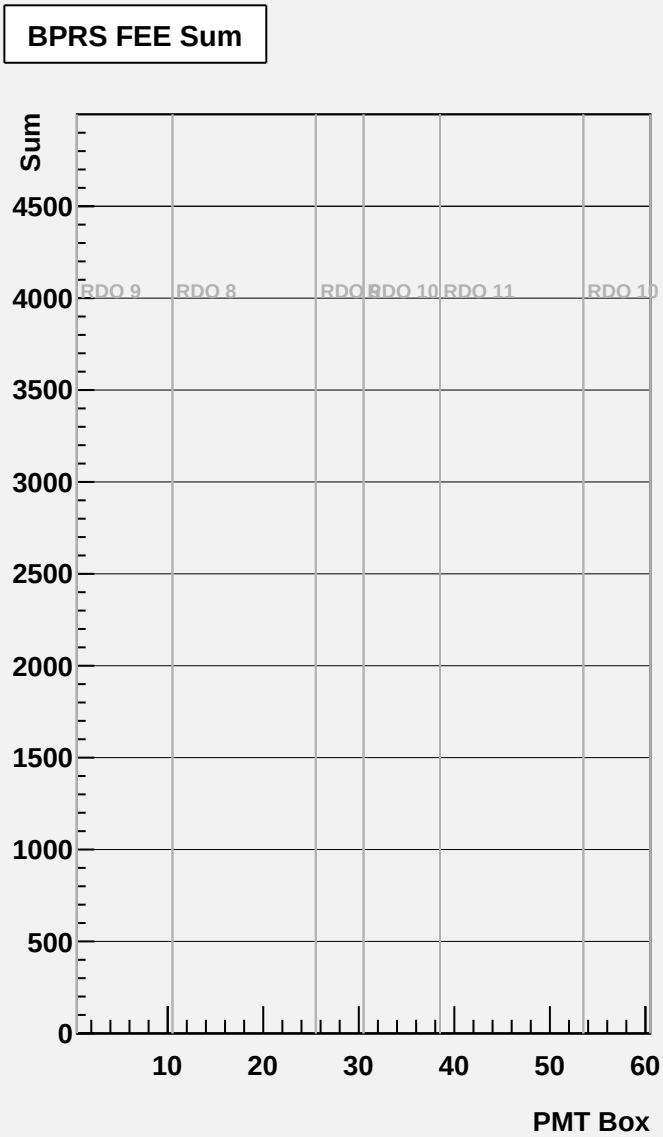

BEMC SMD capacitor distribution
Entries 10660
7
6
5
4
3
2
1
0
0 20 40 60 80 100 120
10

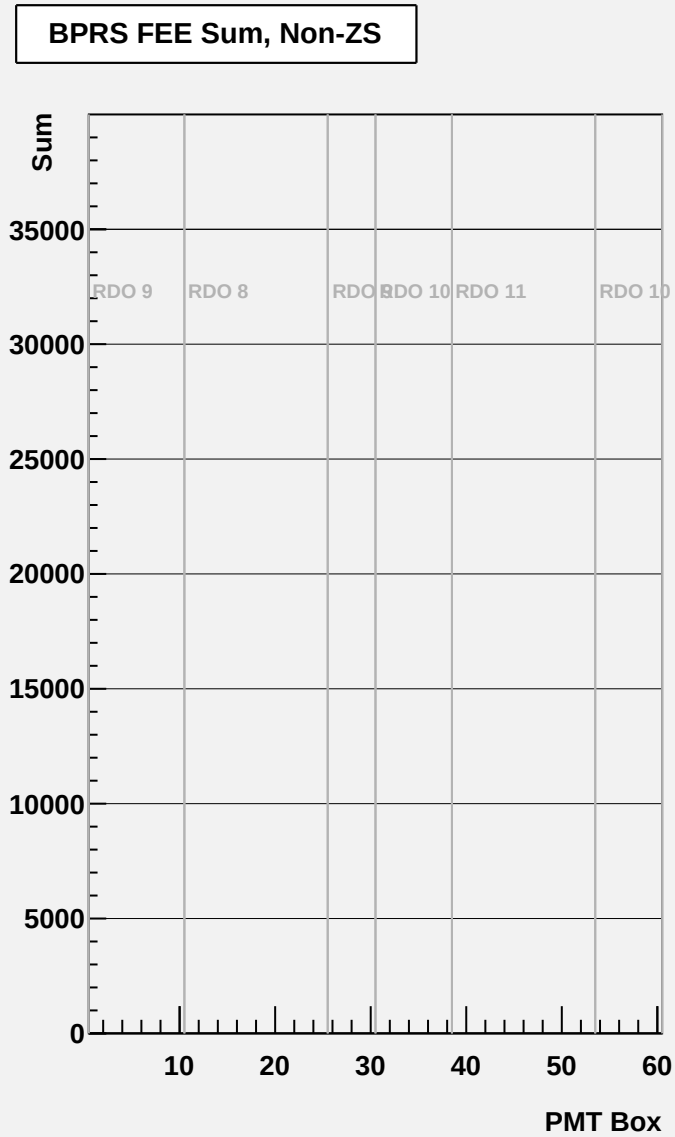

BEMC PSD total ADC, Non-ZS
Entries 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000
×10^3

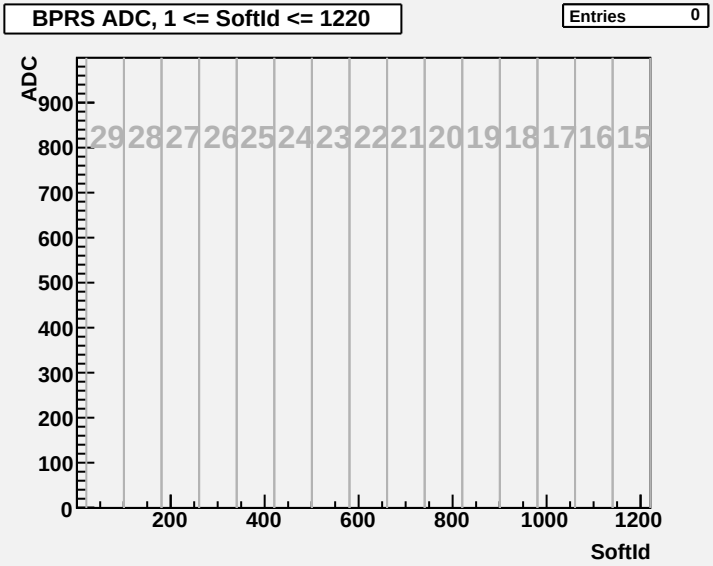

BEMC SMD total ADC, Non-ZS
Entries 348
100
80
60
40
20
0
1000 2000 3000 4000 5000 6000
×10^3

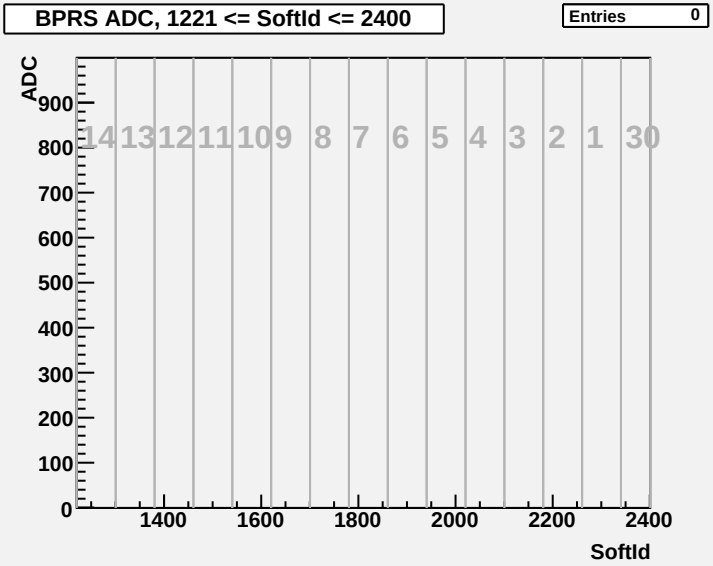

BSMD FEE Sum
Entries 160920
Sum
4500
4000
3500
3000
2500
2000
1500
1000
500
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
10
1

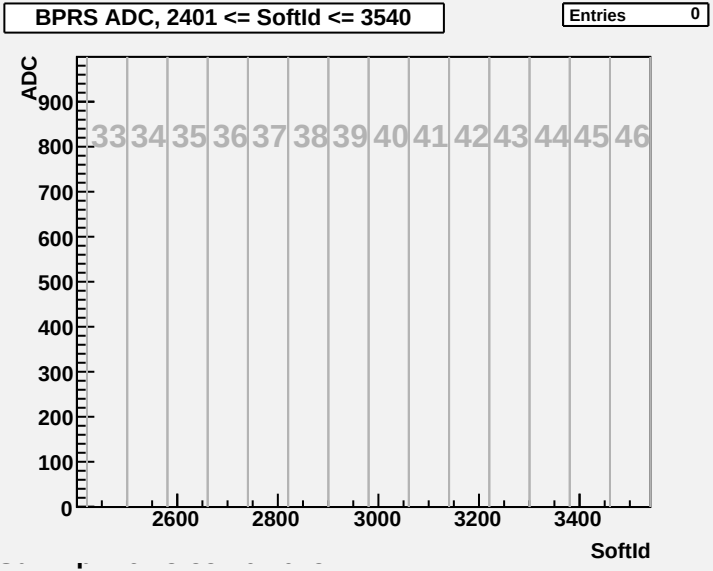

BSMD FEE Sum, Non-ZS
Entries 41760
Sum
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
1

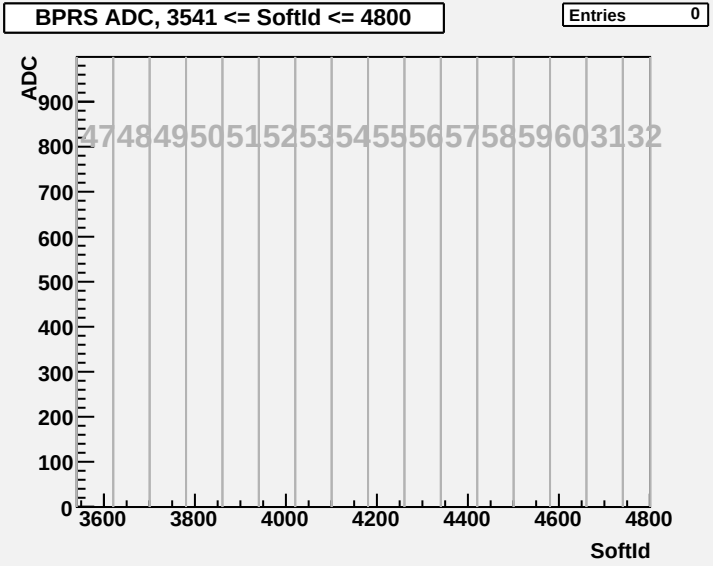

BPRS FEE Sum
Sum
4500
4000
3500
3000
2500
2000
1500
1000
500
0
RDO 9
RDO 8
RDO 10
RDO 11
10
20
30
40
50
60
PMT Box

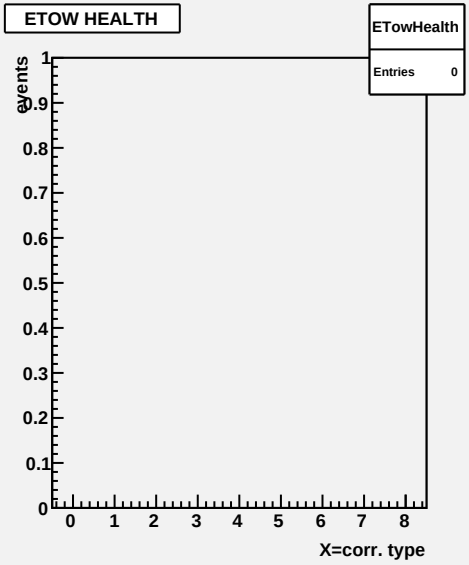

BPRS FEE Sum, Non-ZS
Sum
35000
30000
25000
20000
15000
10000
5000
0
RDO 9
RDO 8
RDO 10
RDO 11
10
20
30
40
50
60
PMT Box

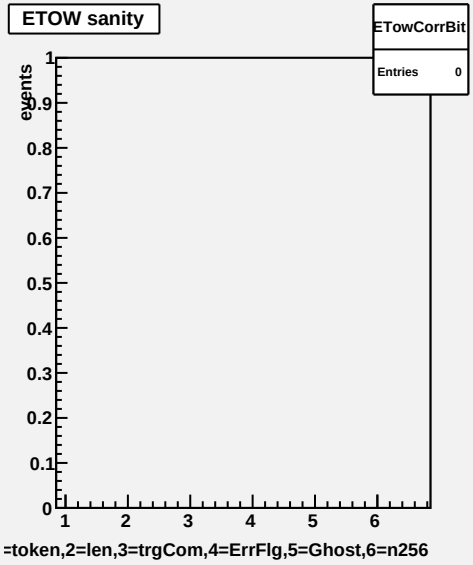

BPRS ADC, 1 <= SoftId <= 1220
Entries 0
ADC
SoftId
29 28 27 26 25 24 23 22 21 20 19 18 17 16 15

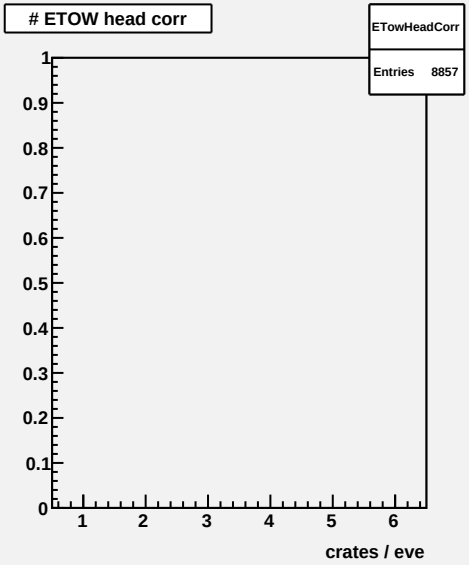

BPRS ADC, 1221 <= SoftId <= 2400
Entries 0
ADC
SoftId
14 13 12 11 10 9 8 7 6 5 4 3 2 1 30

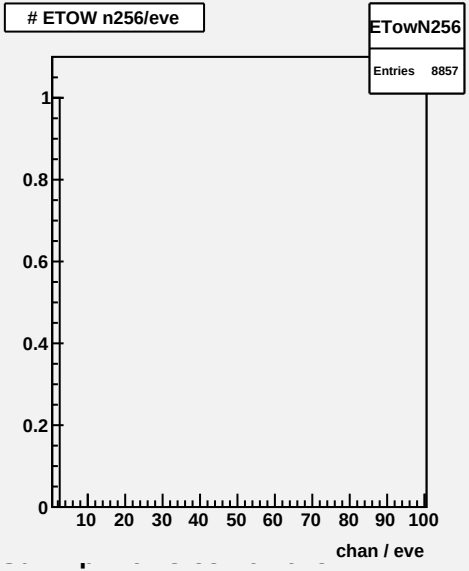

BPRS ADC, 2401 <= SoftId <= 3540
Entries 0
ADC
SoftId
33 34 35 36 37 38 39 40 41 42 43 44 45 46

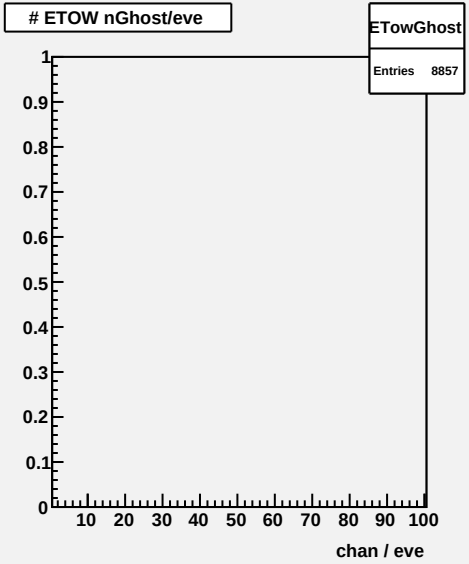

BPRS ADC, 3541 <= SoftId <= 4800
Entries 0
ADC
SoftId
47 48 49 50 51 52 53 54 55 56 57 58 59 60 31 32

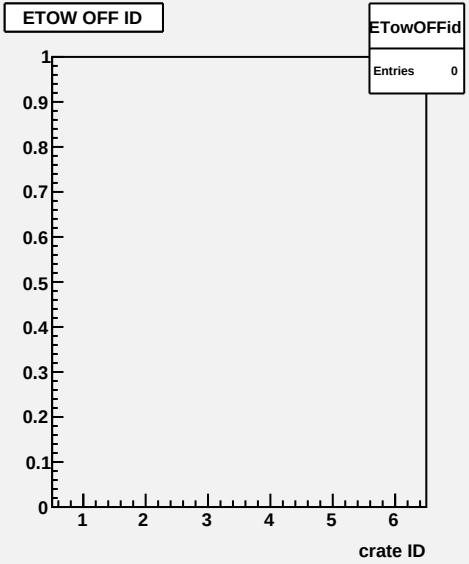

ETOW HEALTH
ETowHealth
Entries 0
events
X=corr. type

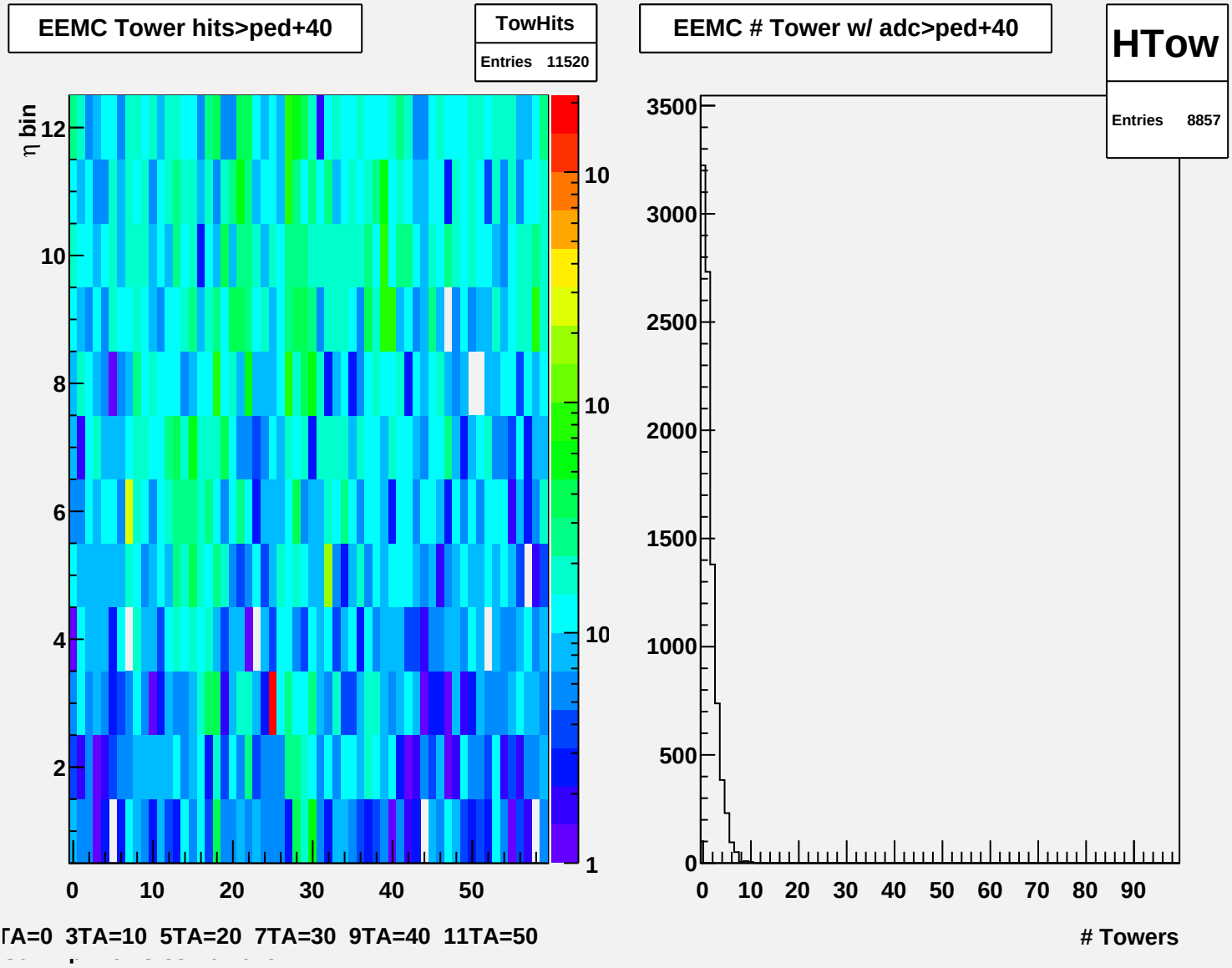

ETOW sanity
ETowCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

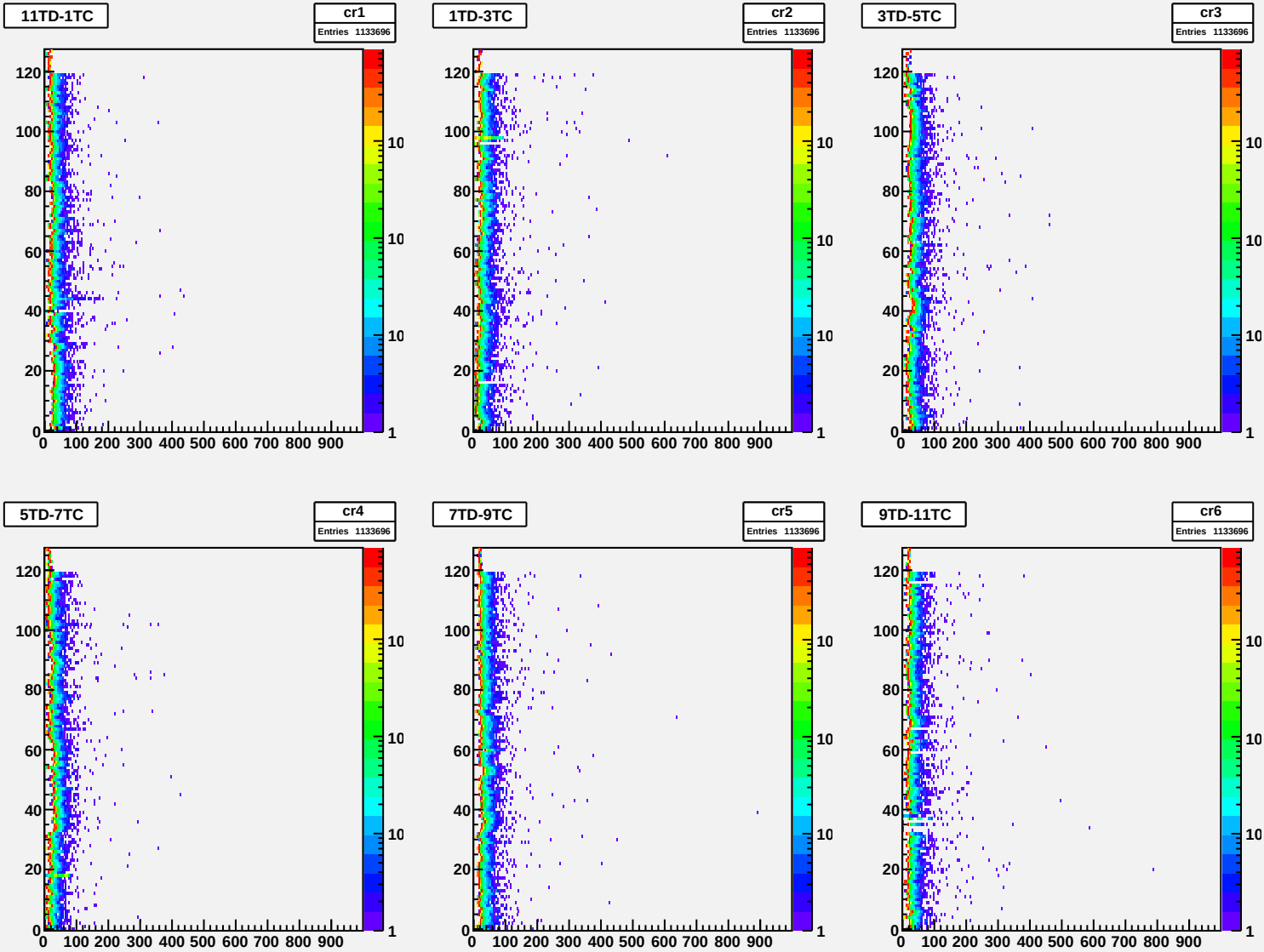

ETOW head corr
ETowHeadCorr
Entries 8857
crates / eve

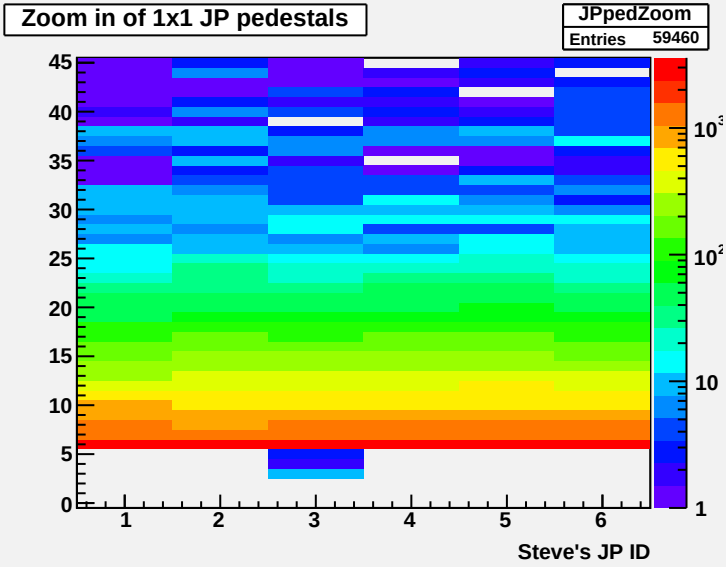

ETOW n256/eve
ETowN256
Entries 8857
chan / eve

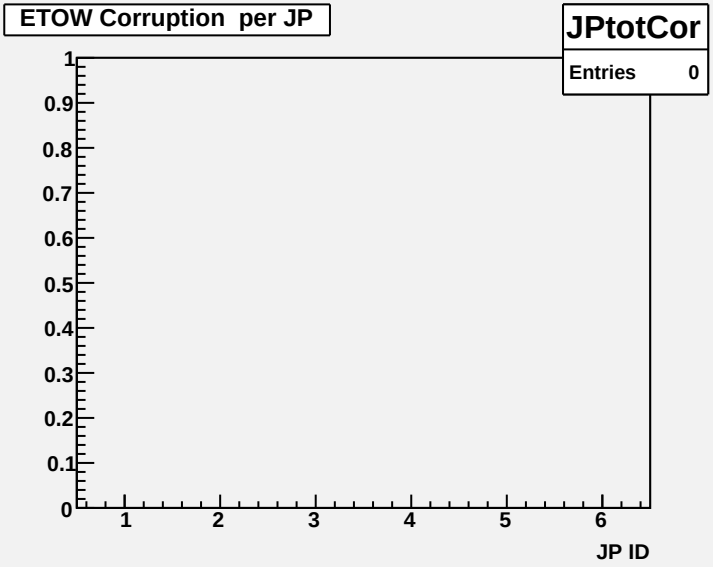

ETOW nGhost/eve
ETowGhost
Entries 8857
chan / eve

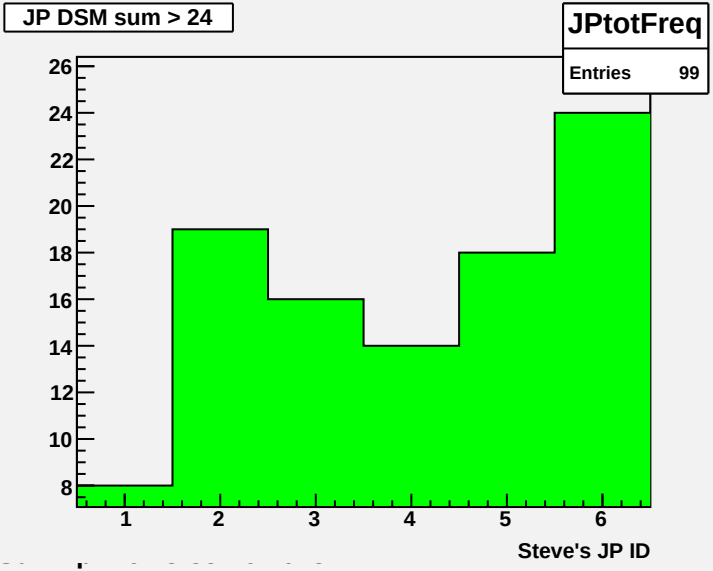

ETOW OFF ID
ETowOFFid
Entries 0
crate ID

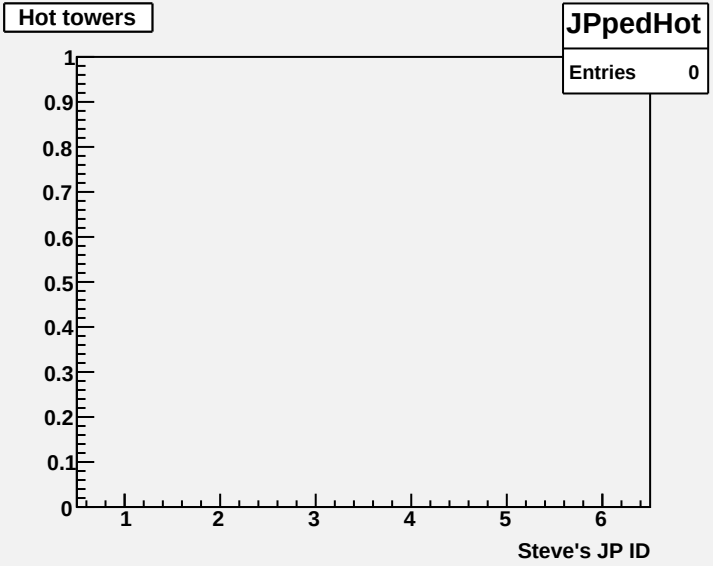

EEMC Tower hits>ped+40
TowHits
Entries 11520
η bin
12
10
8
6
4
2
0
10
20
30
40
50
10
10
10
1
EEMC # Tower w/ adc>ped+40
HTow
Entries 8857
3500
3000
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
Towers
ΓA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

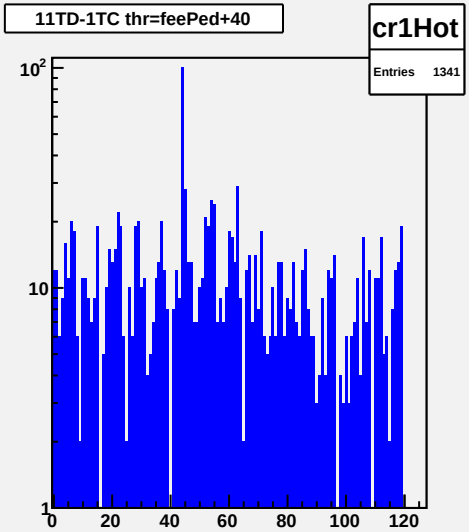

11TD-1TC
cr1
Entries 1133696
1TD-3TC
cr2
Entries 1133696
3TD-5TC
cr3
Entries 1133696
5TD-7TC
cr4
Entries 1133696
7TD-9TC
cr5
Entries 1133696
9TD-11TC
cr6
Entries 1133696
0 100 200 300 400 500 600 700 800 900
0 20 40 60 80 100 120
1 10 10 10 10

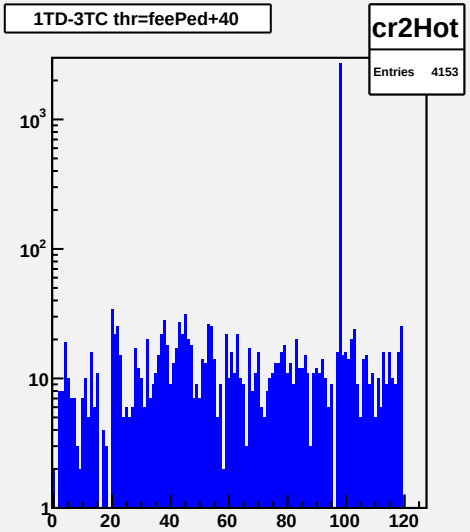

Zoom in of 1x1 JP pedestals
JPpedZoom
Entries 59460
Steve's JP ID

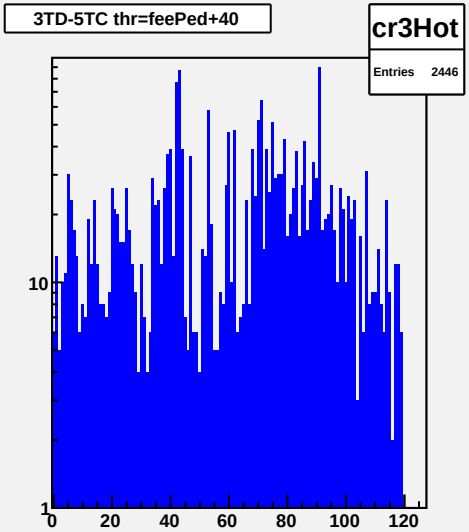

ETOW Corruption per JP
JPtotCor
Entries 0
JP ID

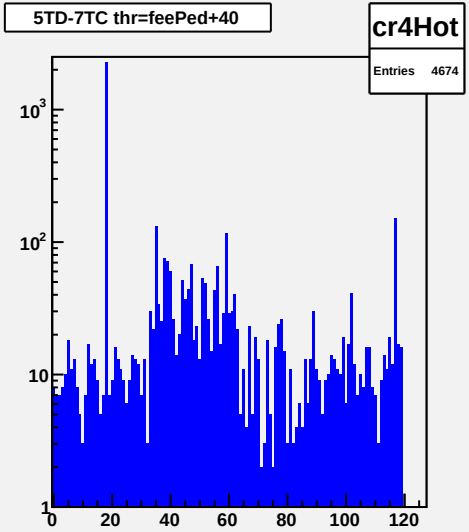

JP DSM sum > 24
JPtotFreq
Entries 99
Steve's JP ID

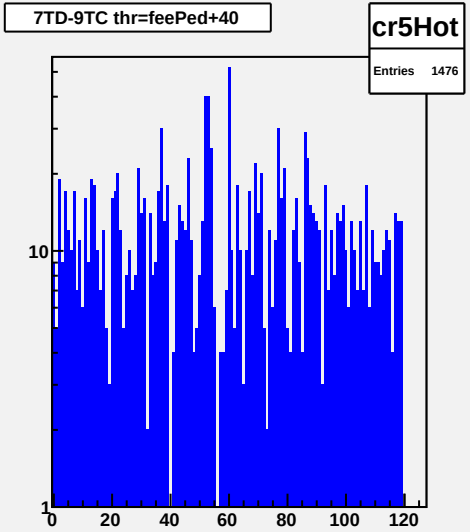

Hot towers
JPpedHot
Entries 0
Steve's JP ID

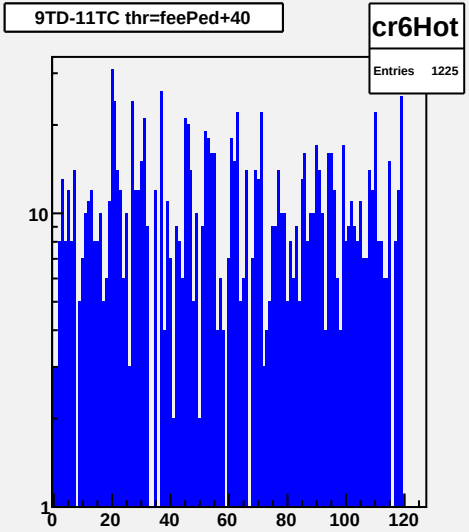

11TD-1TC thr=feePed+40
cr1Hot
Entries 1341

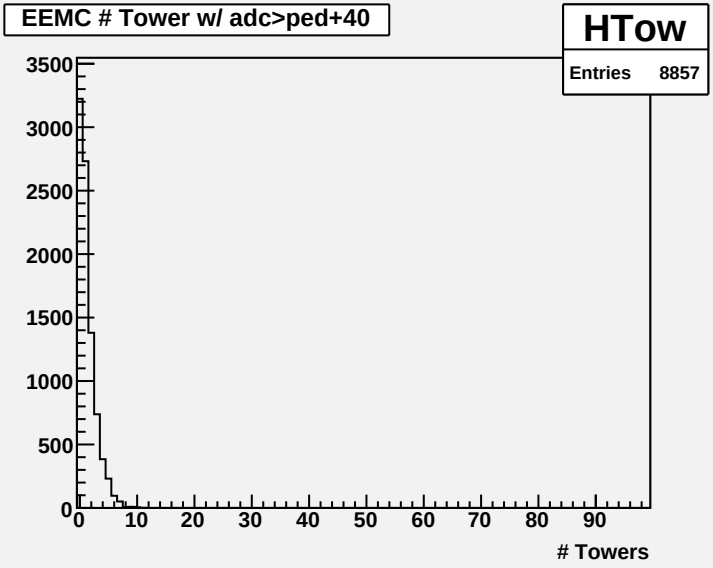

1TD-3TC thr=feePed+40
cr2Hot
Entries 4153

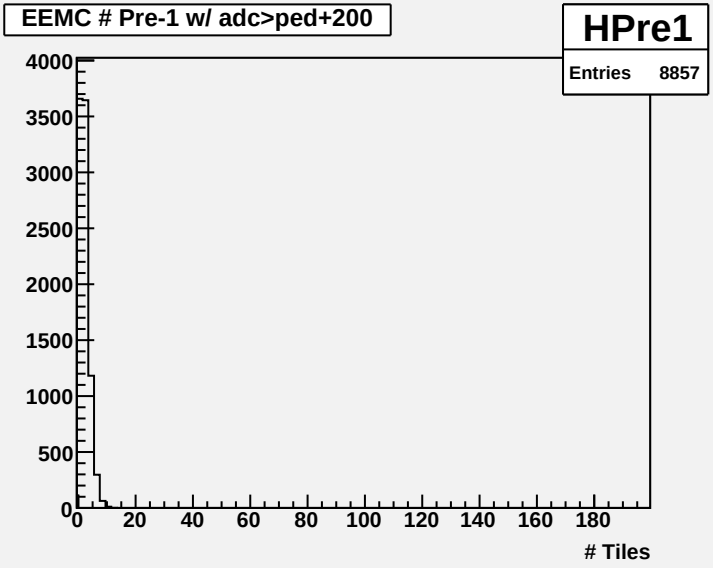

3TD-5TC thr=feePed+40
cr3Hot
Entries 2446

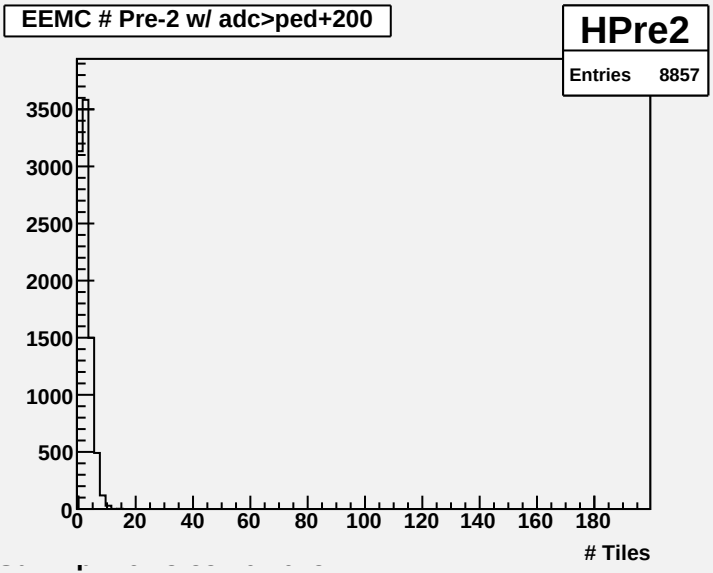

5TD-7TC thr=feePed+40
cr4Hot
Entries 4674

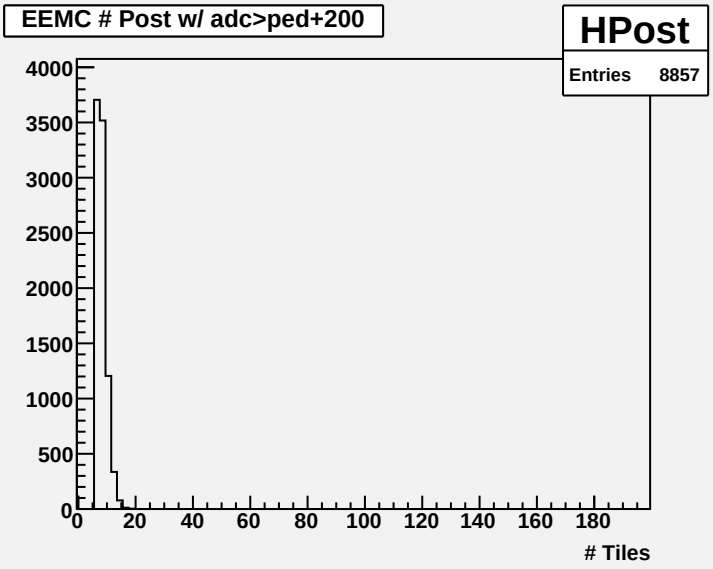

7TD-9TC thr=feePed+40
cr5Hot
Entries 1476

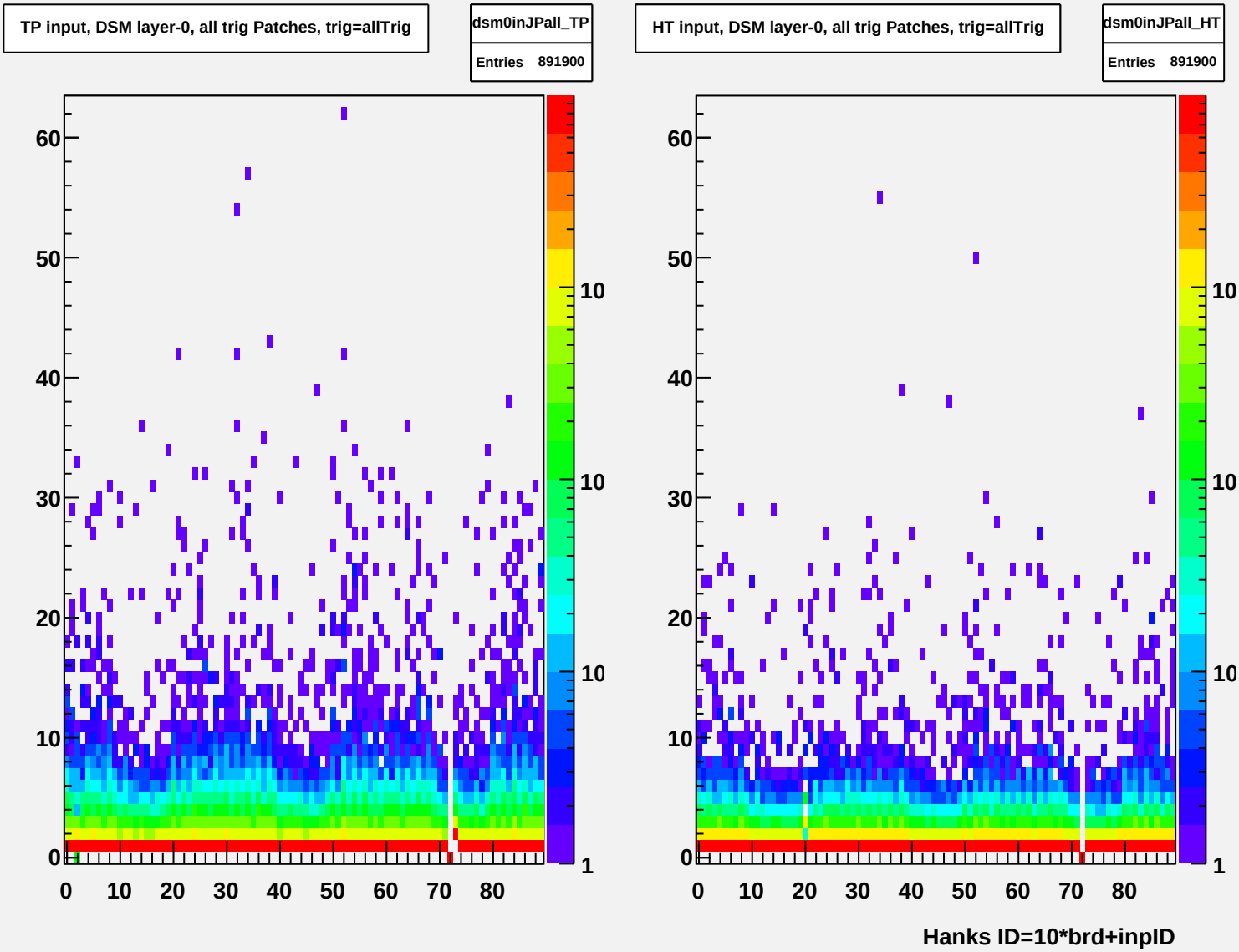

9TD-11TC thr=feePed+40
cr6Hot
Entries 1225

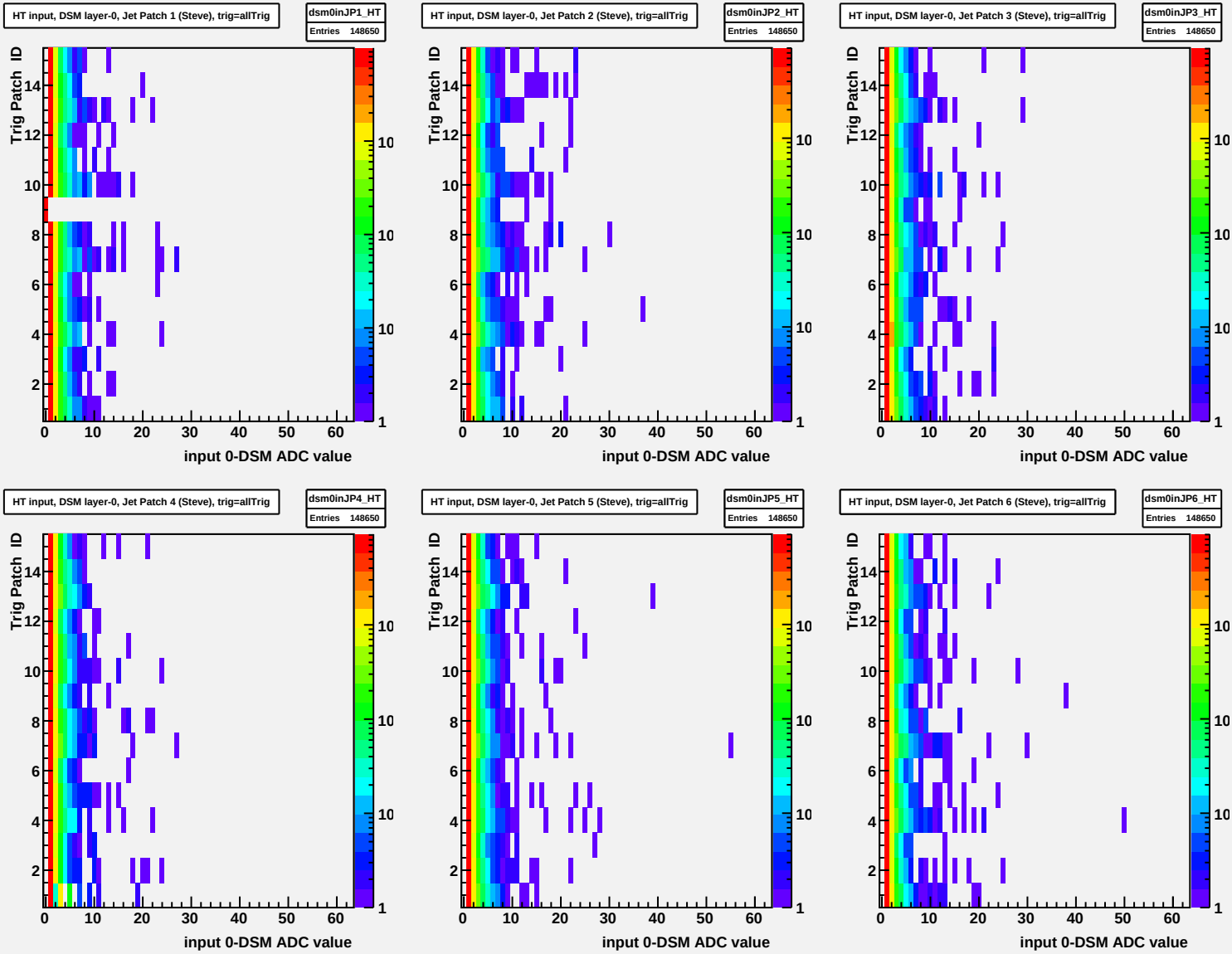

EEMC # Tower w/ adc>ped+40
HTow
Entries 8857
Towers

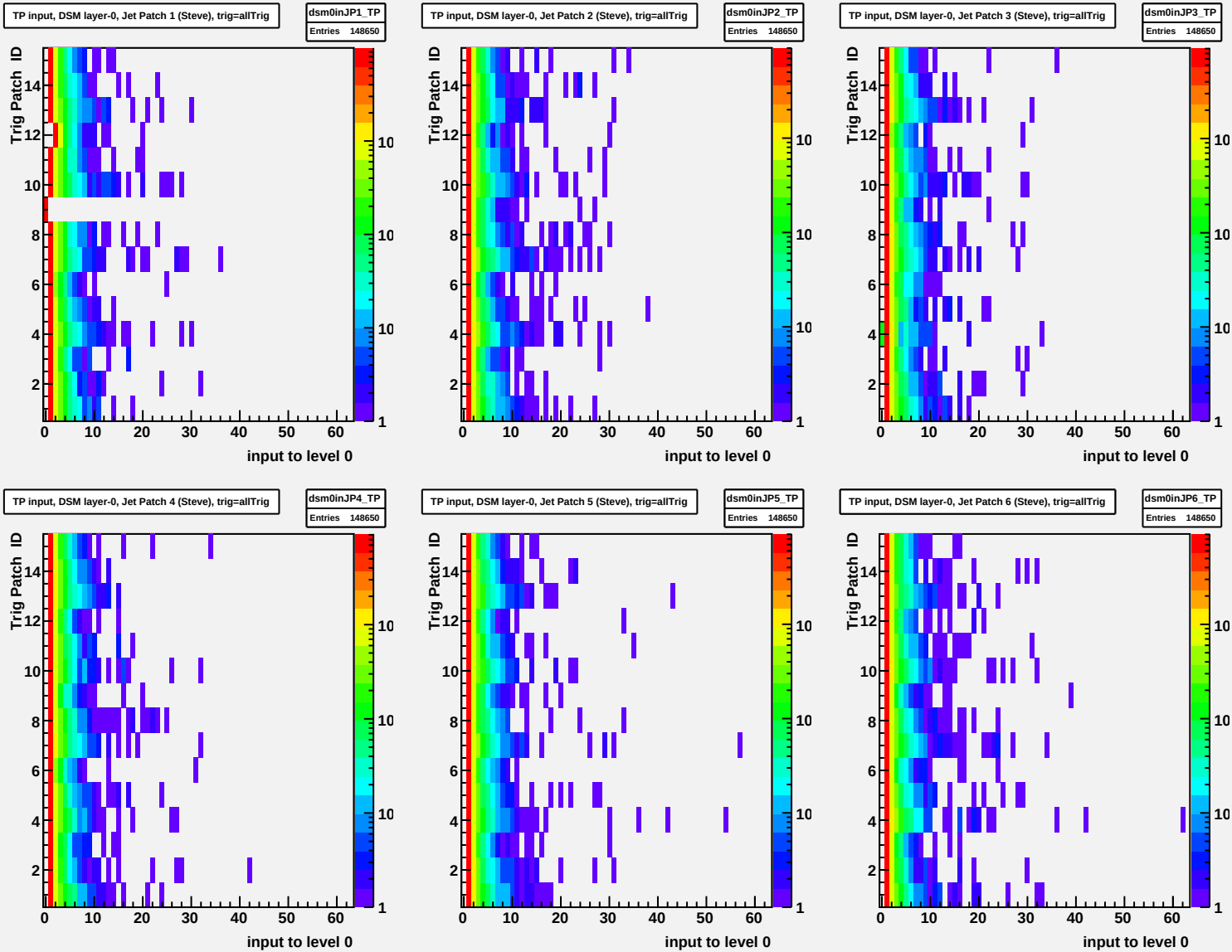

EEMC # Pre-1 w/ adc>ped+200
HPre1
Entries 8857
Tiles

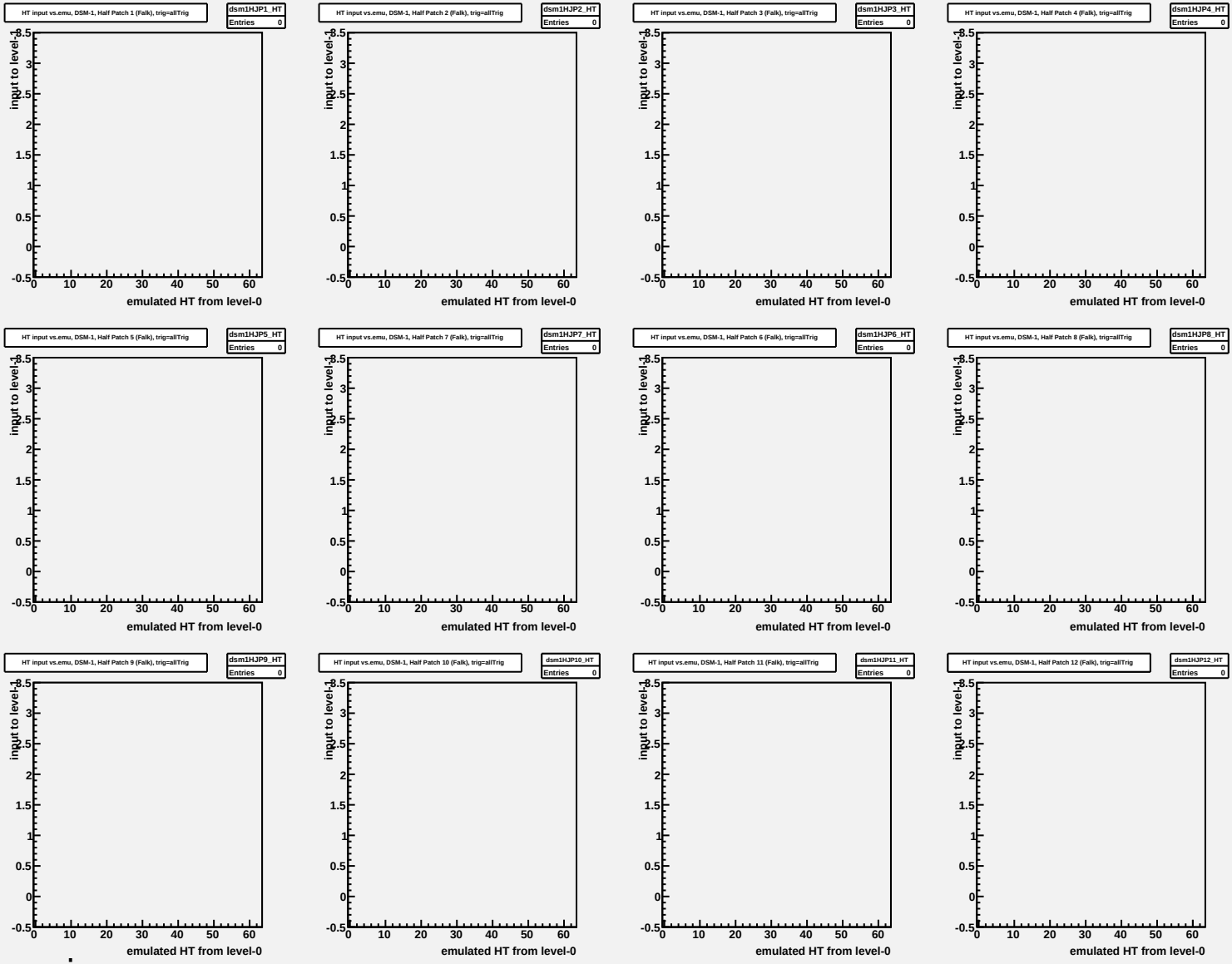

EEMC # Pre-2 w/ adc>ped+200
HPre2
Entries 8857
Tiles

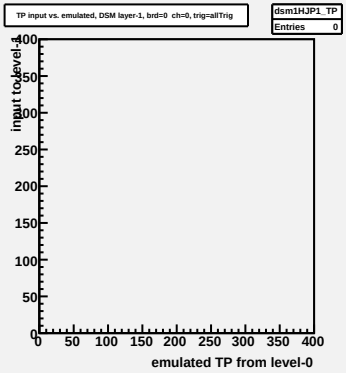

EEMC # Post w/ adc>ped+200
HPost
Entries 8857
Tiles

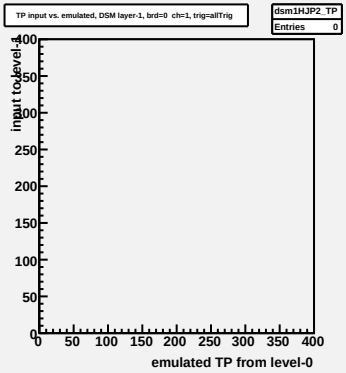

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 891900
HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 891900
0
10
20
30
40
50
60
70
80
1
10
Hanks ID=10*brd+inpID

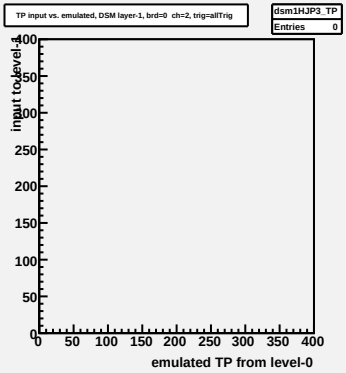

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 148650
HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 148650
HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 148650
HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 148650
HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 148650
HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 148650
Trig Patch ID
input 0-DSM ADC value

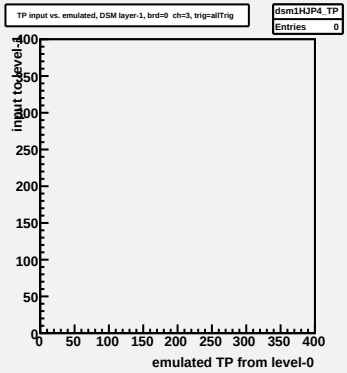

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 148650
TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 148650
TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 148650
TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 148650
TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 148650
TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 148650
Trig Patch ID
input to level 0

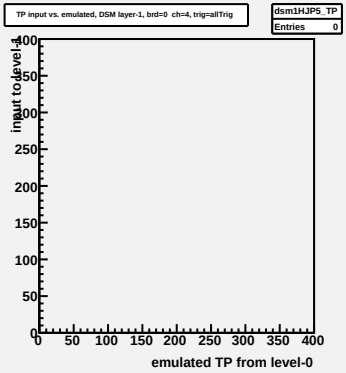

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 5 (Falk), trig=allTrig
dsm1HJP5_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 7 (Falk), trig=allTrig
dsm1HJP7_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 6 (Falk), trig=allTrig
dsm1HJP6_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 8 (Falk), trig=allTrig
dsm1HJP8_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 9 (Falk), trig=allTrig
dsm1HJP9_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 10 (Falk), trig=allTrig
dsm1HJP10_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 11 (Falk), trig=allTrig
dsm1HJP11_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 12 (Falk), trig=allTrig
dsm1HJP12_HT
Entries 0
input to level-1
emulated HT from level-0

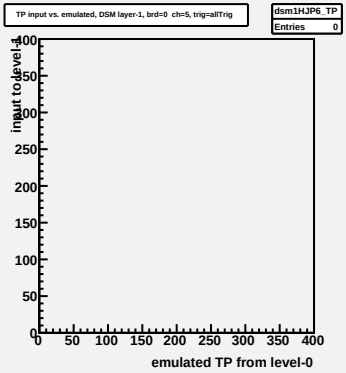

TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries 0
input to level-1
emulated TP from level-0

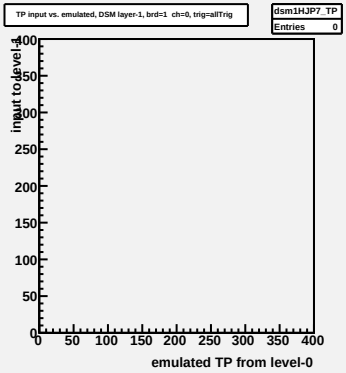

TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries 0
input to level-1
emulated TP from level-0

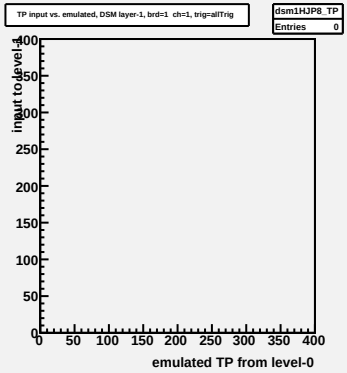

TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries 0
input to level-1
emulated TP from level-0

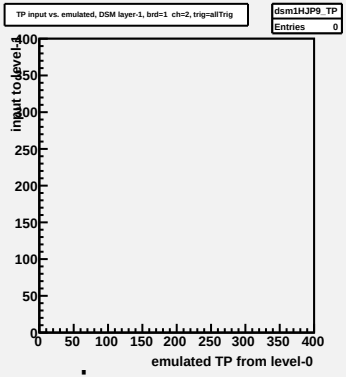

TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig
dsm1HJP4_TP
Entries 0
input to level-1
emulated TP from level-0

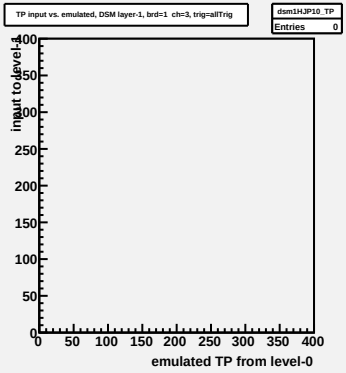

TP input vs. emulated, DSM layer-1, brd=0 ch=4, trig=allTrig
dsm1HJP5_TP
Entries 0
input to level-1
emulated TP from level-0

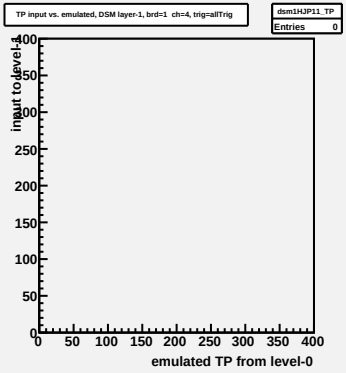

TP input vs. emulated, DSM layer-1, brd=0 ch=5, trig=allTrig
dsm1HJP6_TP
Entries 0
input to level-1
emulated TP from level-0

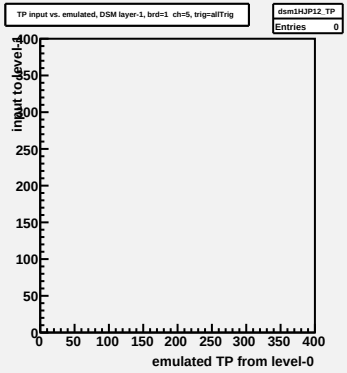

TP input vs. emulated, DSM layer-1, brd=1 ch=0, trig=allTrig
dsm1HJP7_TP
Entries 0
input to level-1
emulated TP from level-0

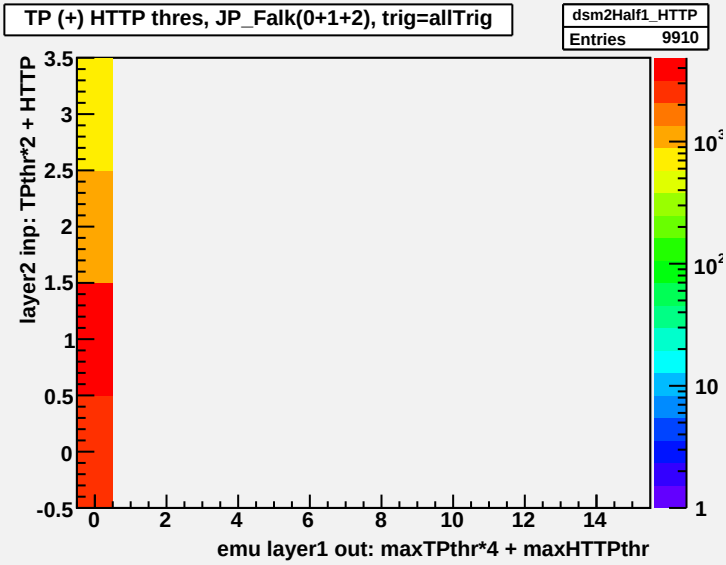

TP input vs. emulated, DSM layer-1, brd=1 ch=1, trig=allTrig
dsm1HJP8_TP
Entries 0
input to level-1
emulated TP from level-0

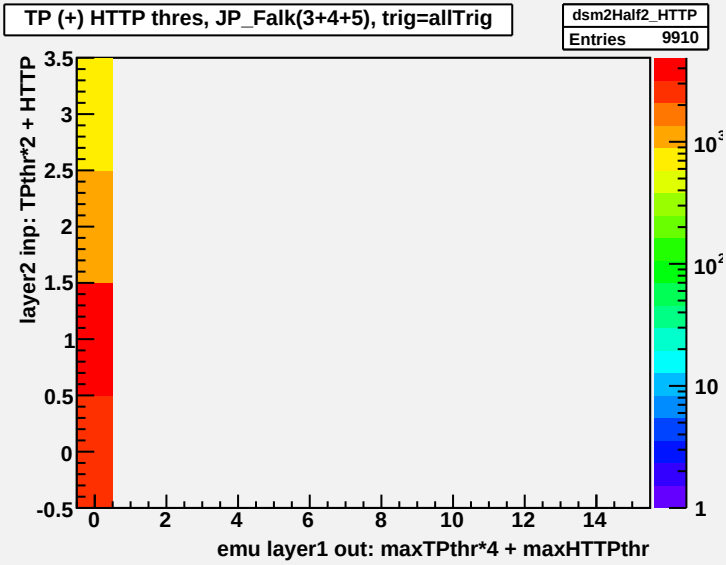

TP input vs. emulated, DSM layer-1, brd=1 ch=2, trig=allTrig
dsm1HJP9_TP
Entries 0
input to level-1
emulated TP from level-0

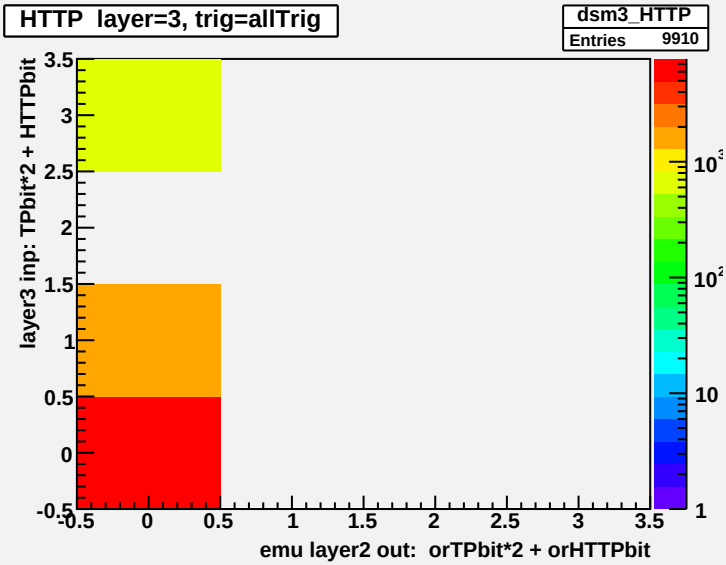

TP input vs. emulated, DSM layer-1, brd=1 ch=3, trig=allTrig
dsm1HJP10_TP
Entries 0
input to level-1
emulated TP from level-0

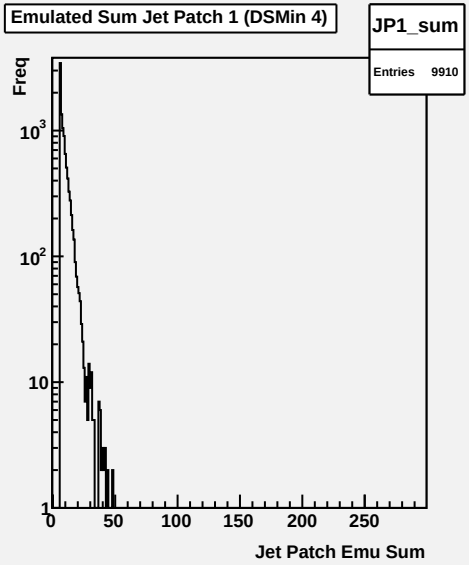

TP input vs. emulated, DSM layer-1, brd=1 ch=4, trig=allTrig
dsm1HJP11_TP
Entries 0
input to level-1
emulated TP from level-0

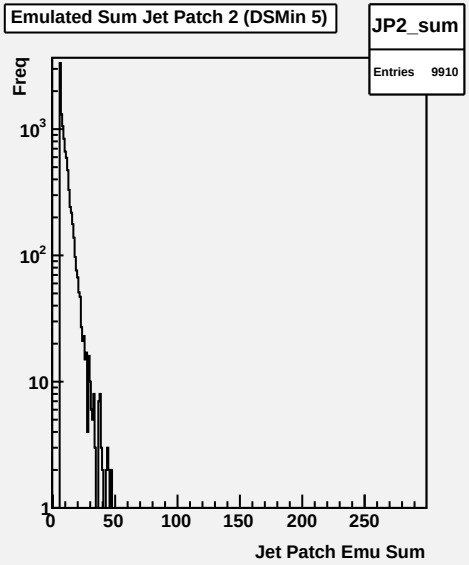

TP input vs. emulated, DSM layer-1, brd=1 ch=5, trig=allTrig
dsm1HJP12_TP
Entries 0
input to level-1
emulated TP from level-0

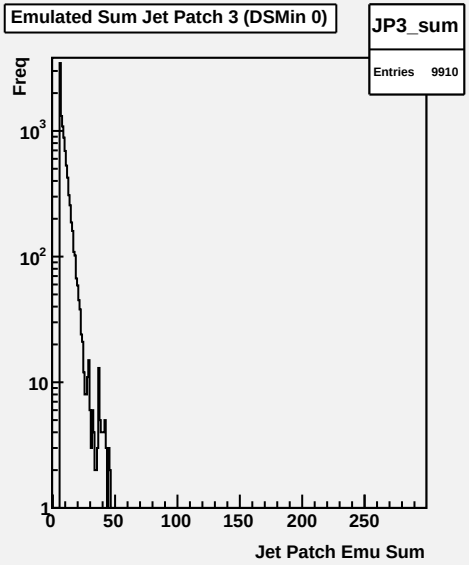

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 9910
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

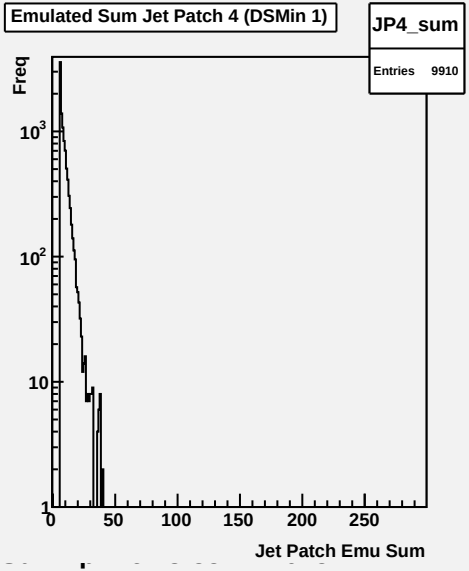

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 9910
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

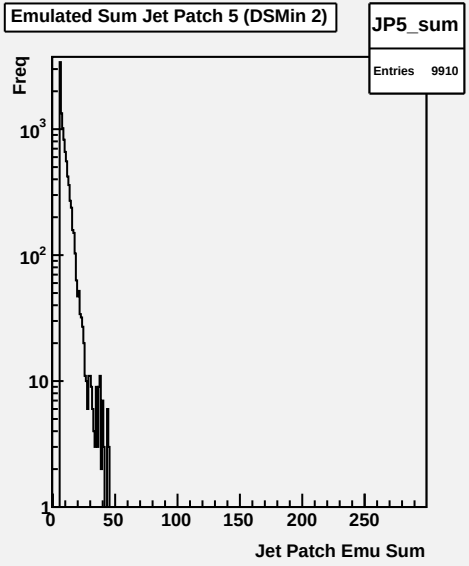

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 9910
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

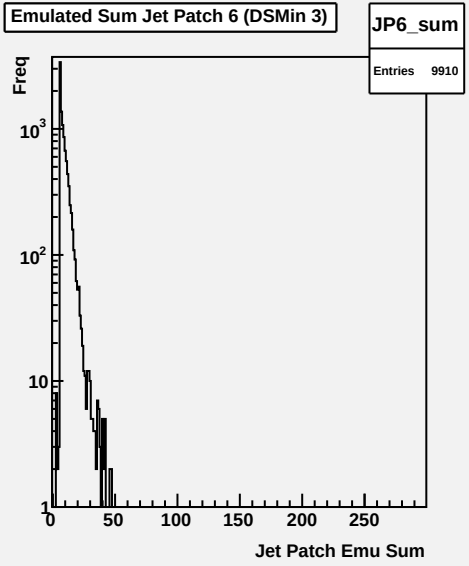

Emulated Sum Jet Patch 1 (DSMin 4)
JP1_sum
Entries 9910
Freq
Jet Patch Emu Sum

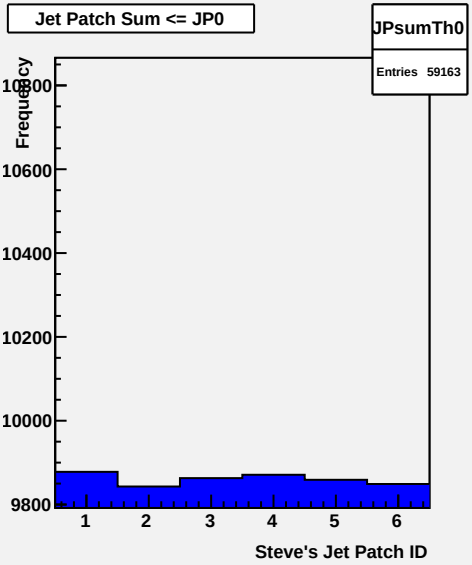

Emulated Sum Jet Patch 2 (DSMin 5)
JP2_sum
Entries 9910
Freq
Jet Patch Emu Sum

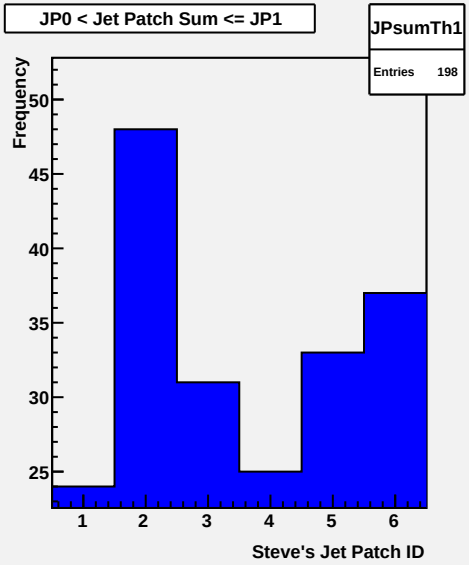

Emulated Sum Jet Patch 3 (DSMin 0)
JP3_sum
Entries 9910
Freq
Jet Patch Emu Sum

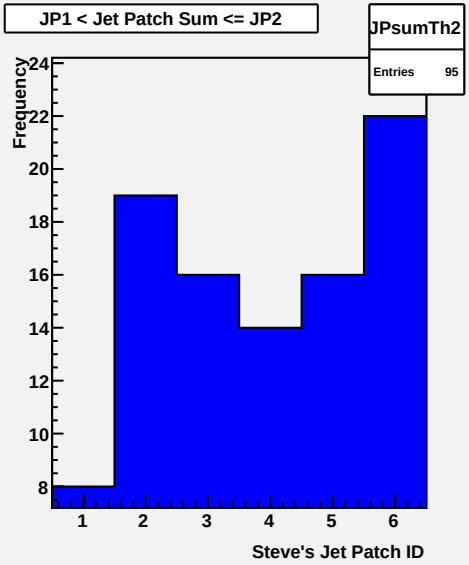

Emulated Sum Jet Patch 4 (DSMin 1)
JP4_sum
Entries 9910
Freq
Jet Patch Emu Sum

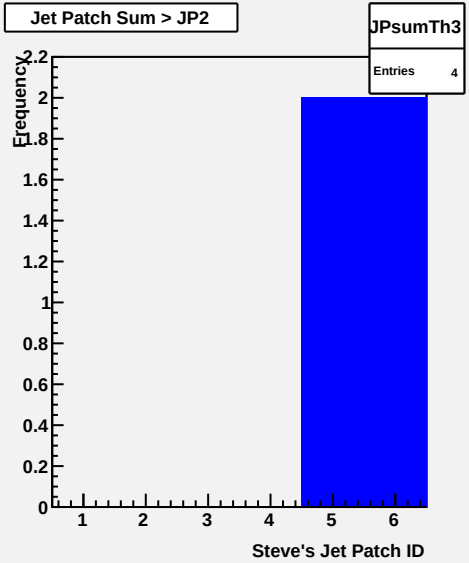

Emulated Sum Jet Patch 5 (DSMin 2)
JP5_sum
Entries 9910
Freq
Jet Patch Emu Sum

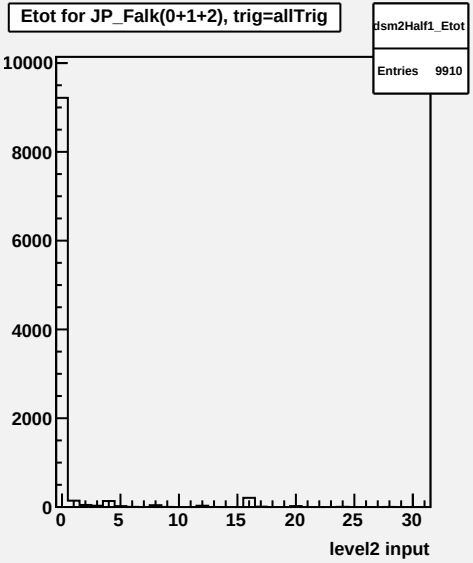

Emulated Sum Jet Patch 6 (DSMin 3)
JP6_sum
Entries 9910
Freq
Jet Patch Emu Sum

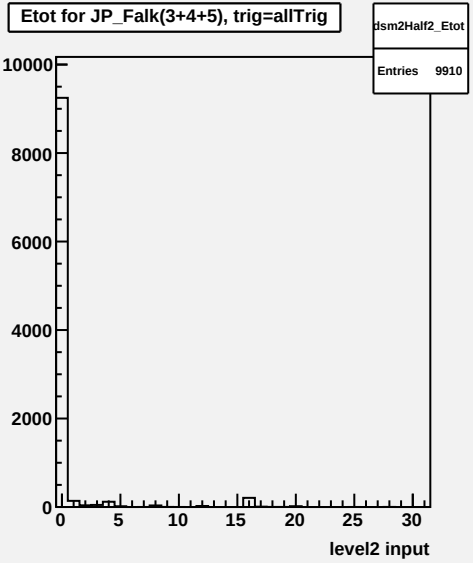

Jet Patch Sum <= JP0
JPsumTh0
Entries 59163
Frequency
Steve's Jet Patch ID

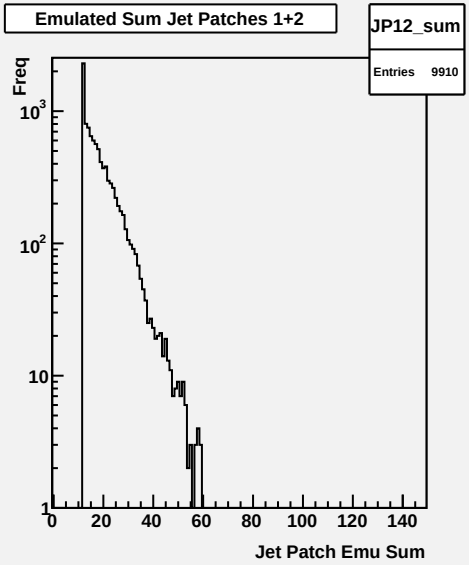

JP0 < Jet Patch Sum <= JP1
JPsumTh1
Entries 198
Frequency
Steve's Jet Patch ID

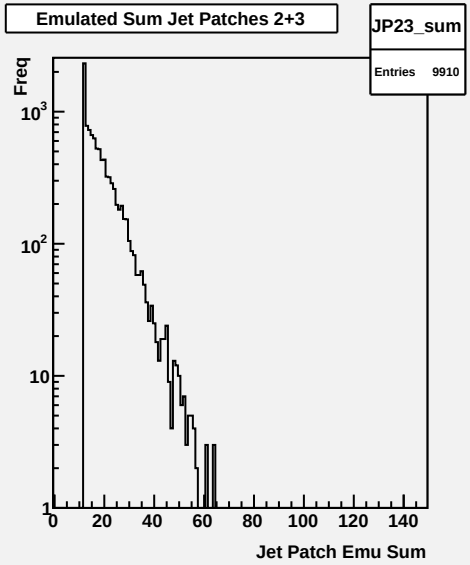

JP1 < Jet Patch Sum <= JP2
JPsumTh2
Entries 95
Frequency
Steve's Jet Patch ID

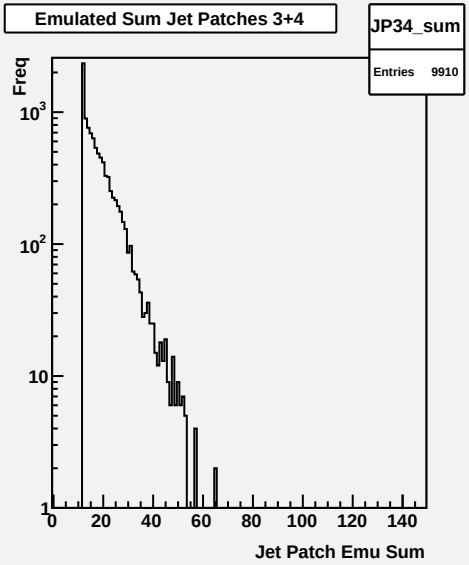

Jet Patch Sum > JP2
JPsumTh3
Entries 4
Frequency
Steve's Jet Patch ID

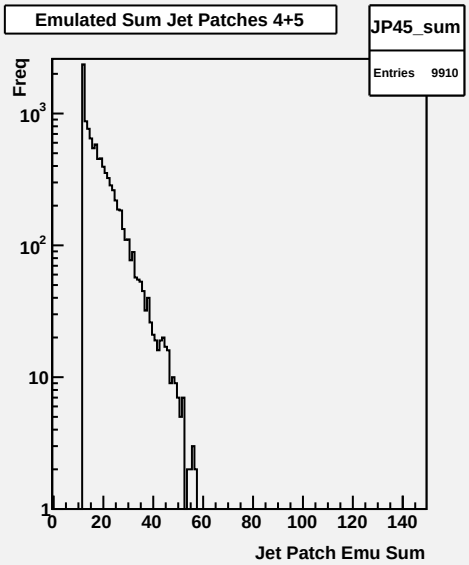

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 9910
level2 input

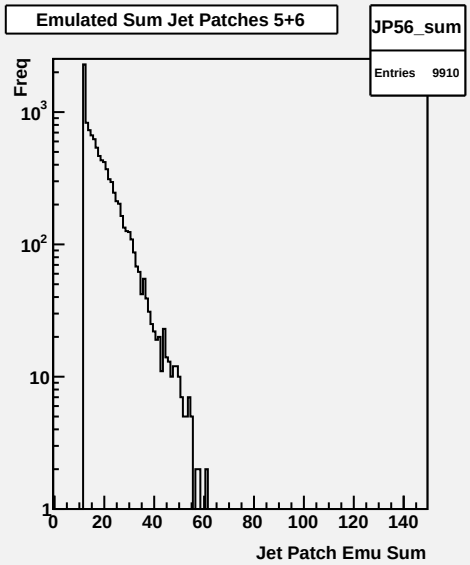

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 9910
level2 input

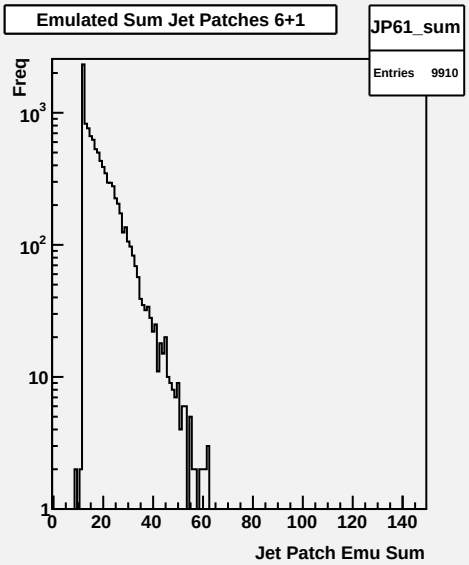

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 9910
Freq
Jet Patch Emu Sum

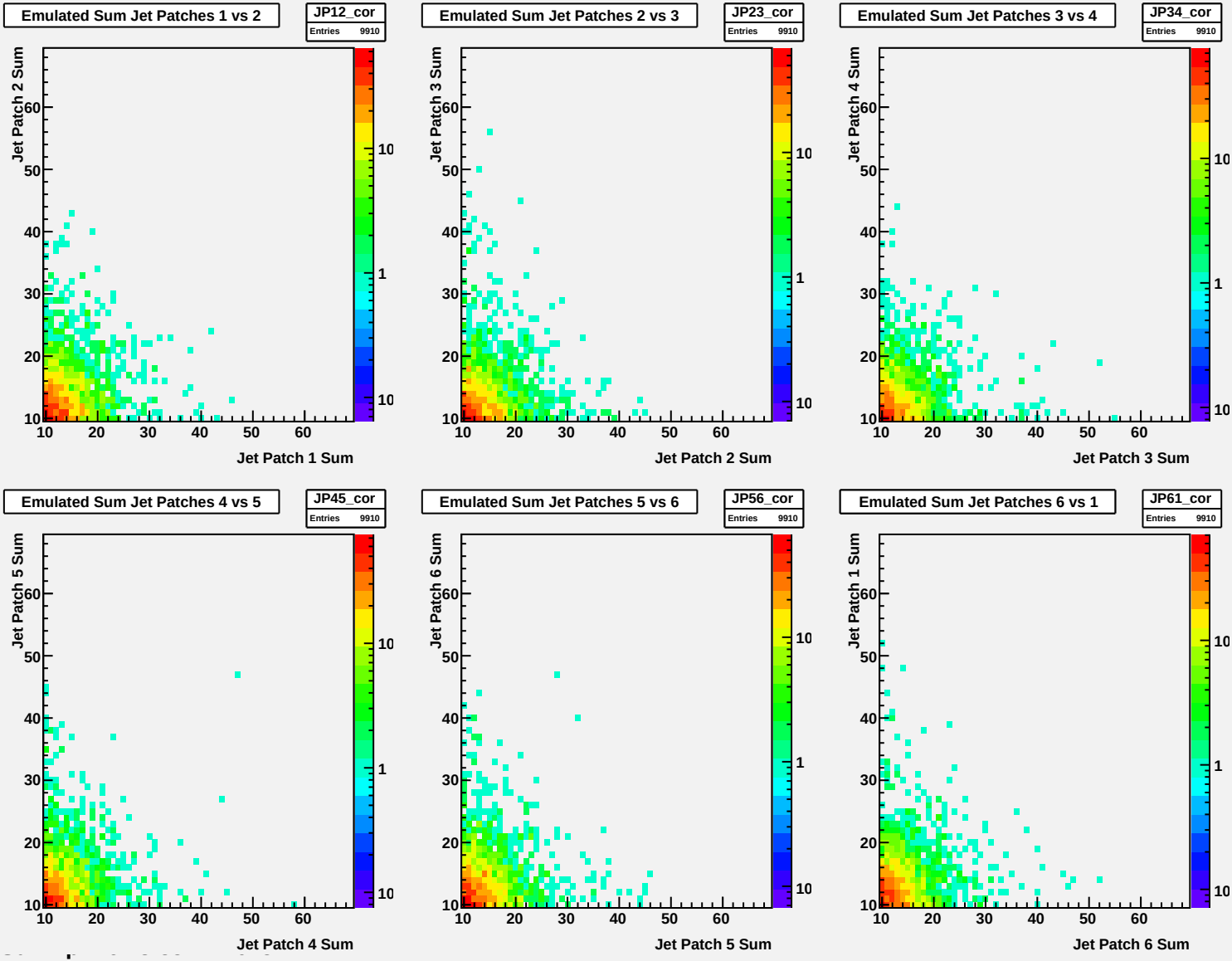

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 9910
Freq
Jet Patch Emu Sum


Emulated Sum Jet Patches 3+4
JP34_sum
Entries 9910
Freq
Jet Patch Emu Sum

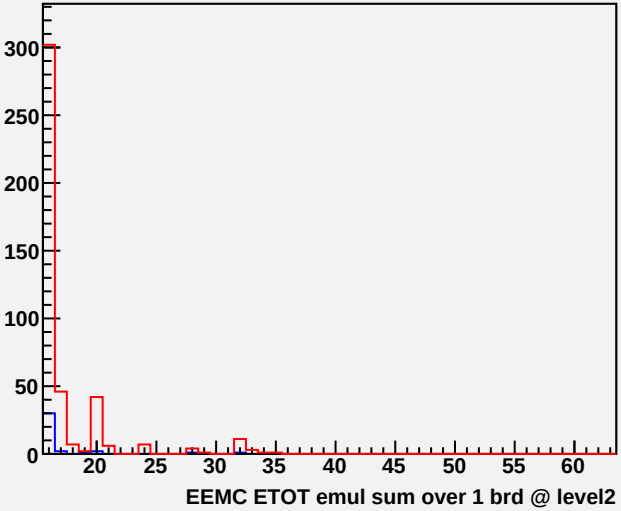

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 9910
Freq
Jet Patch Emu Sum


Emulated Sum Jet Patches 5+6
JP56_sum
Entries 9910
Freq
Jet Patch Emu Sum

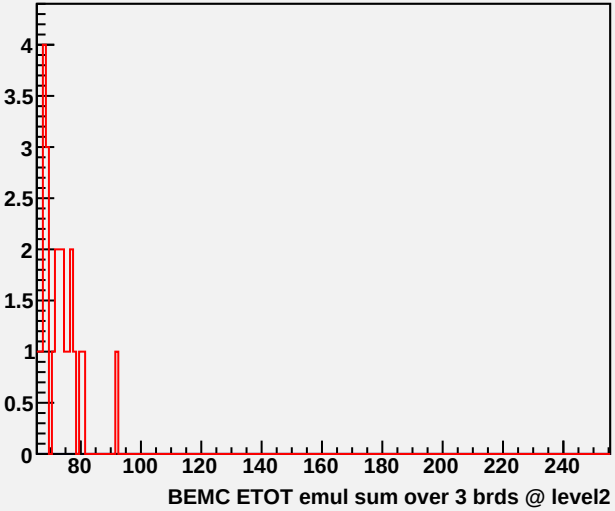

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 9910
Freq
Jet Patch Emu Sum


Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 9910
Jet Patch 2 Sum
Jet Patch 1 Sum
Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 9910
Jet Patch 3 Sum
Jet Patch 2 Sum
Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 9910
Jet Patch 4 Sum
Jet Patch 3 Sum
Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 9910
Jet Patch 5 Sum
Jet Patch 4 Sum
Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 9910
Jet Patch 6 Sum
Jet Patch 5 Sum
Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 9910
Jet Patch 1 Sum
Jet Patch 6 Sum

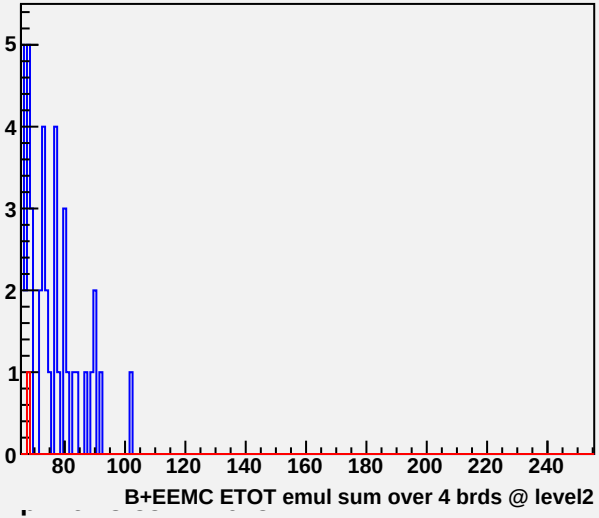
EEMC ETOT BIT=0, trig=allTrig

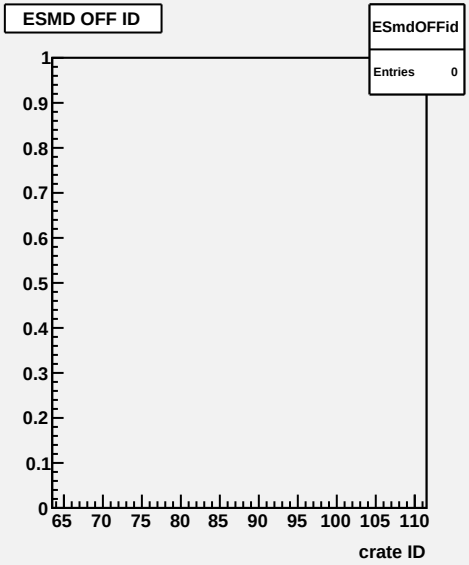


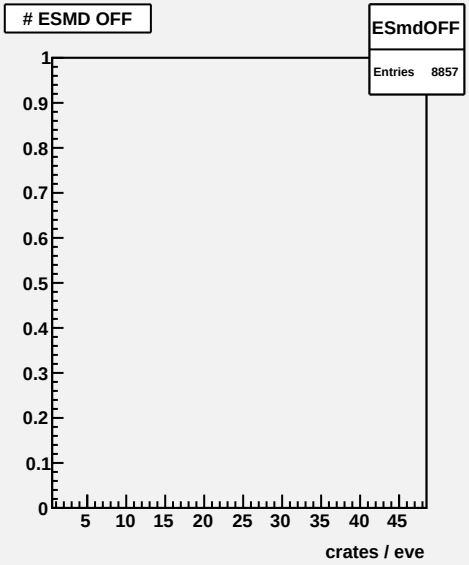
BEMC ETOT BIT=0, trig=allTrig

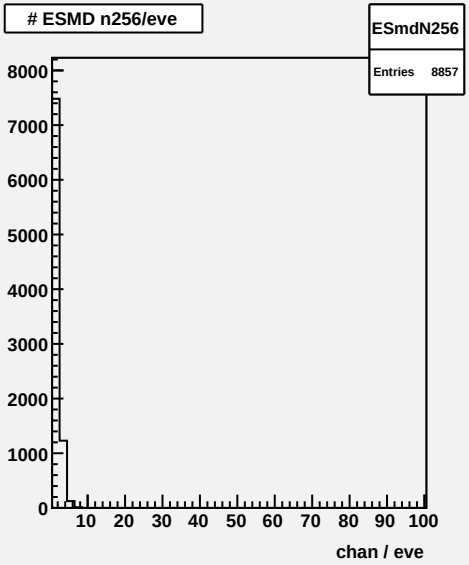


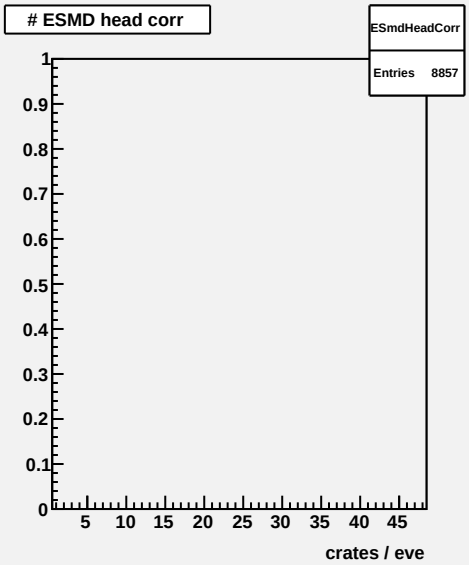
B+EEMC ETOT BIT=0, trig=allTrig

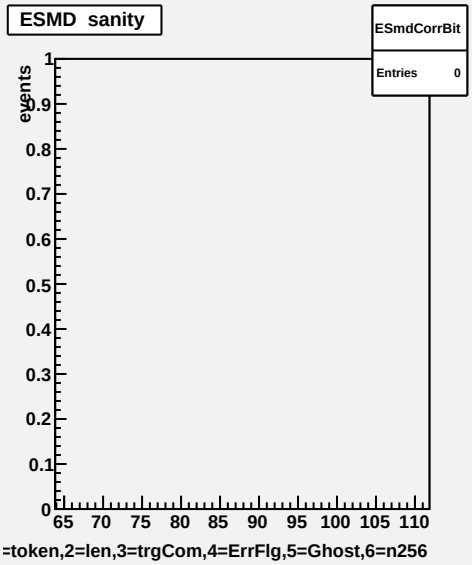


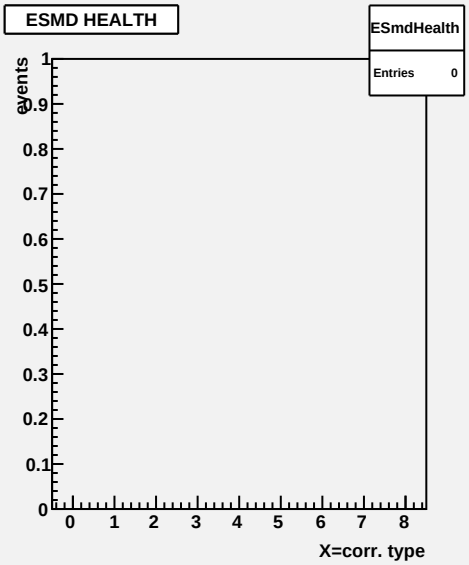

ESMD OFF ID
ESmdOFFid
Entries 0
crate ID

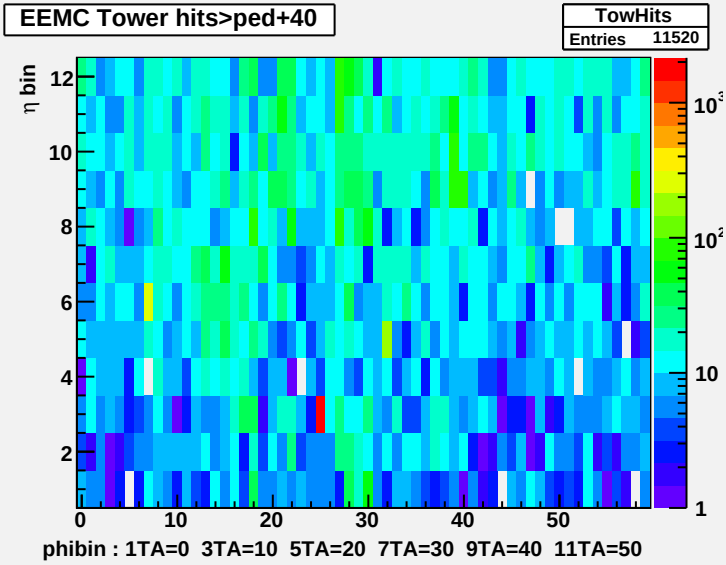

ESMD OFF
ESmdOFF
Entries 8857
crates / eve

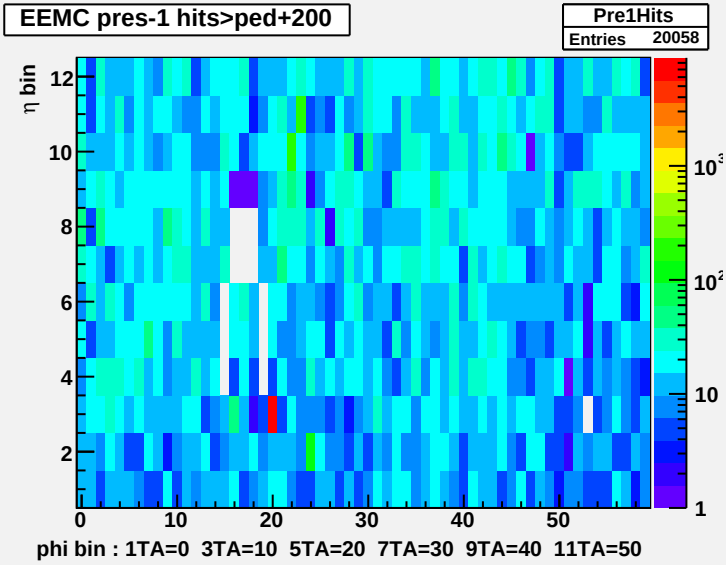

ESMD n256/eve
ESmdN256
Entries 8857
chan / eve

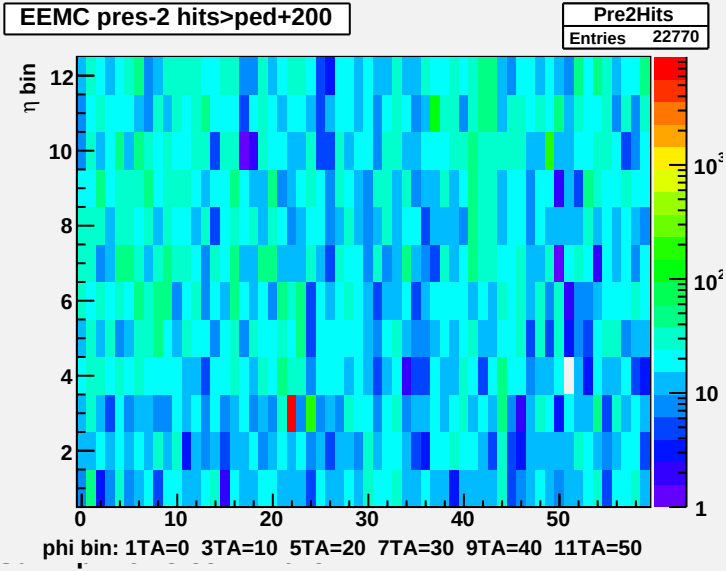

ESMD head corr
ESmdHeadCorr
Entries 8857
crates / eve

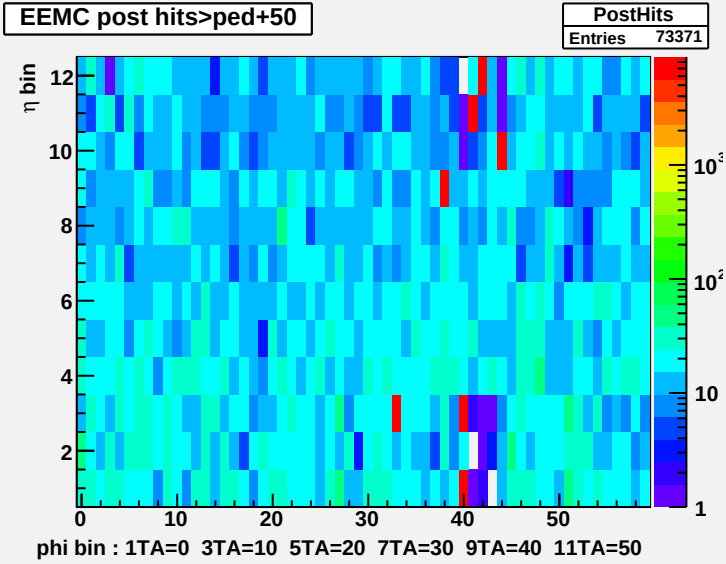

ESMD sanity
ESmdCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

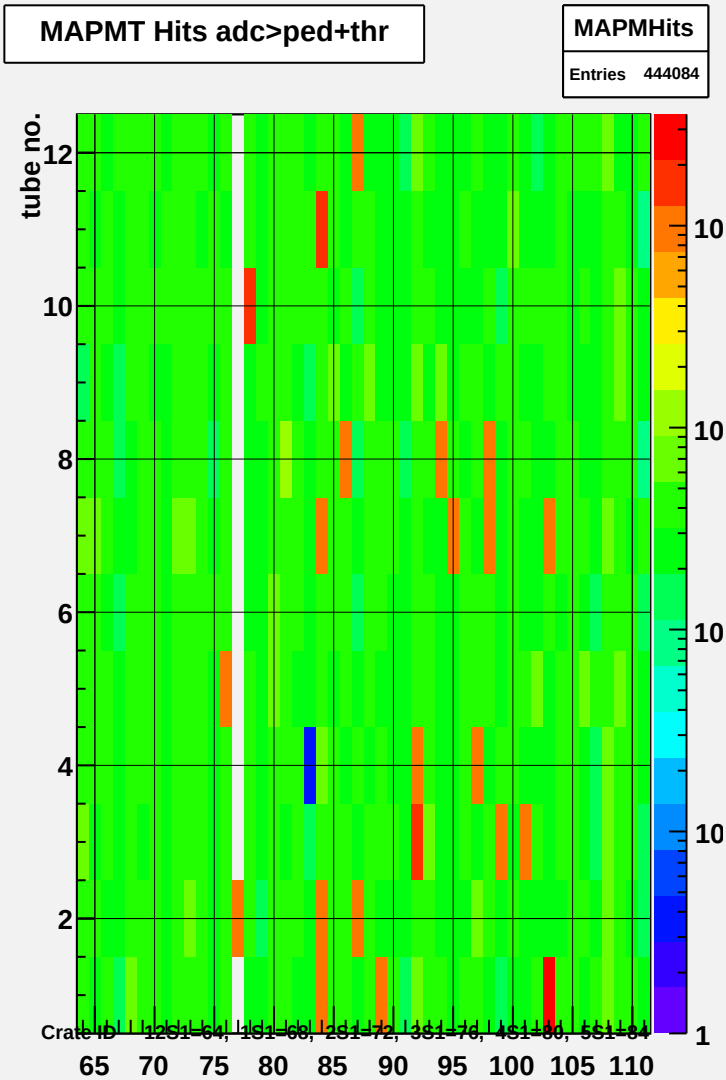

ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

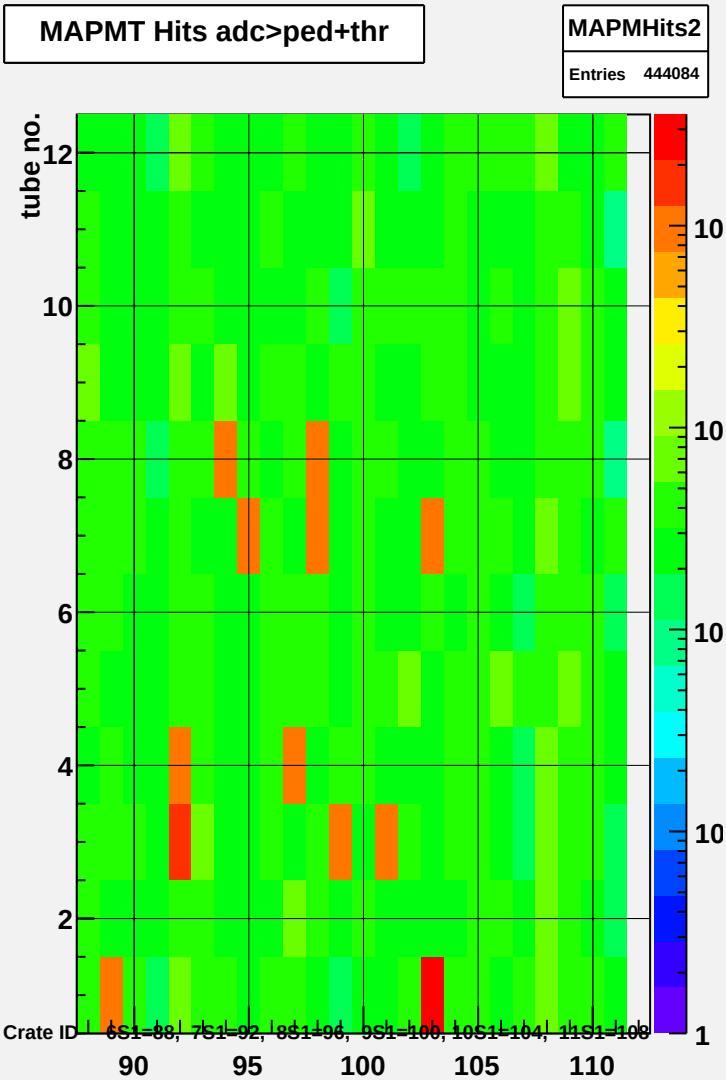

EEMC Tower hits>ped+40
TowHits
Entries 11520
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

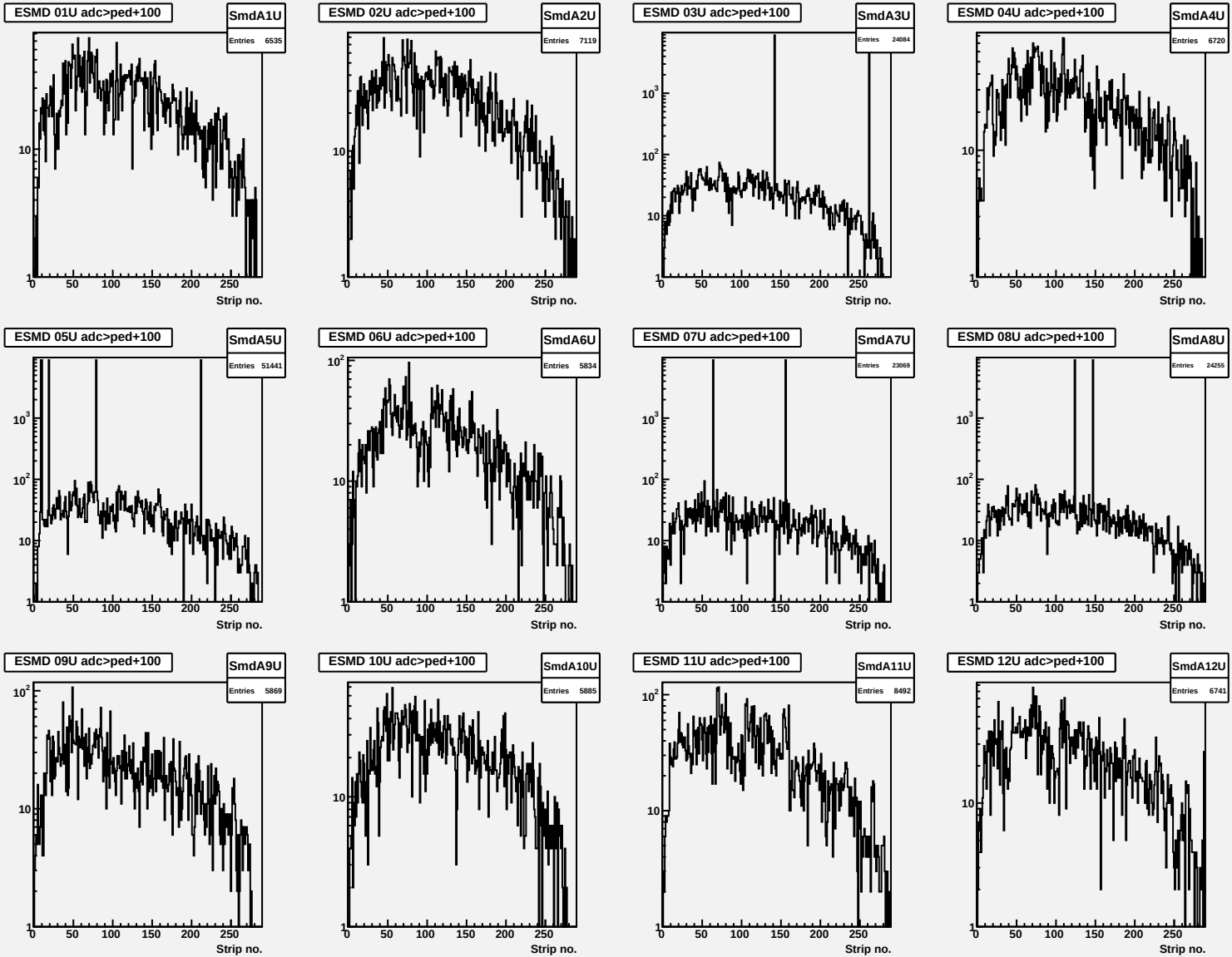

EEMC pres-1 hits>ped+200
Pre1Hits
Entries 20058
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

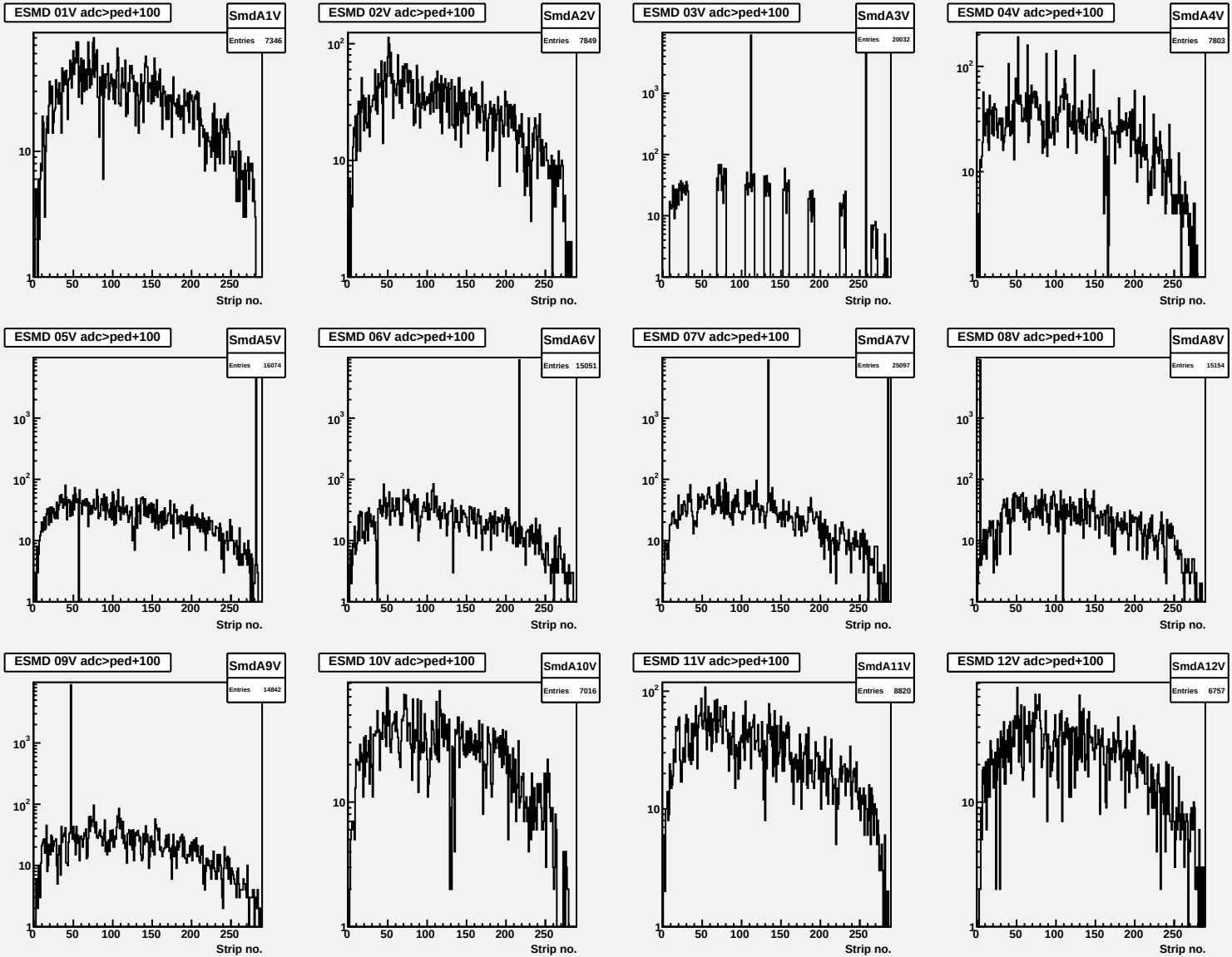

EEMC pres-2 hits>ped+200
Pre2Hits
Entries 22770
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

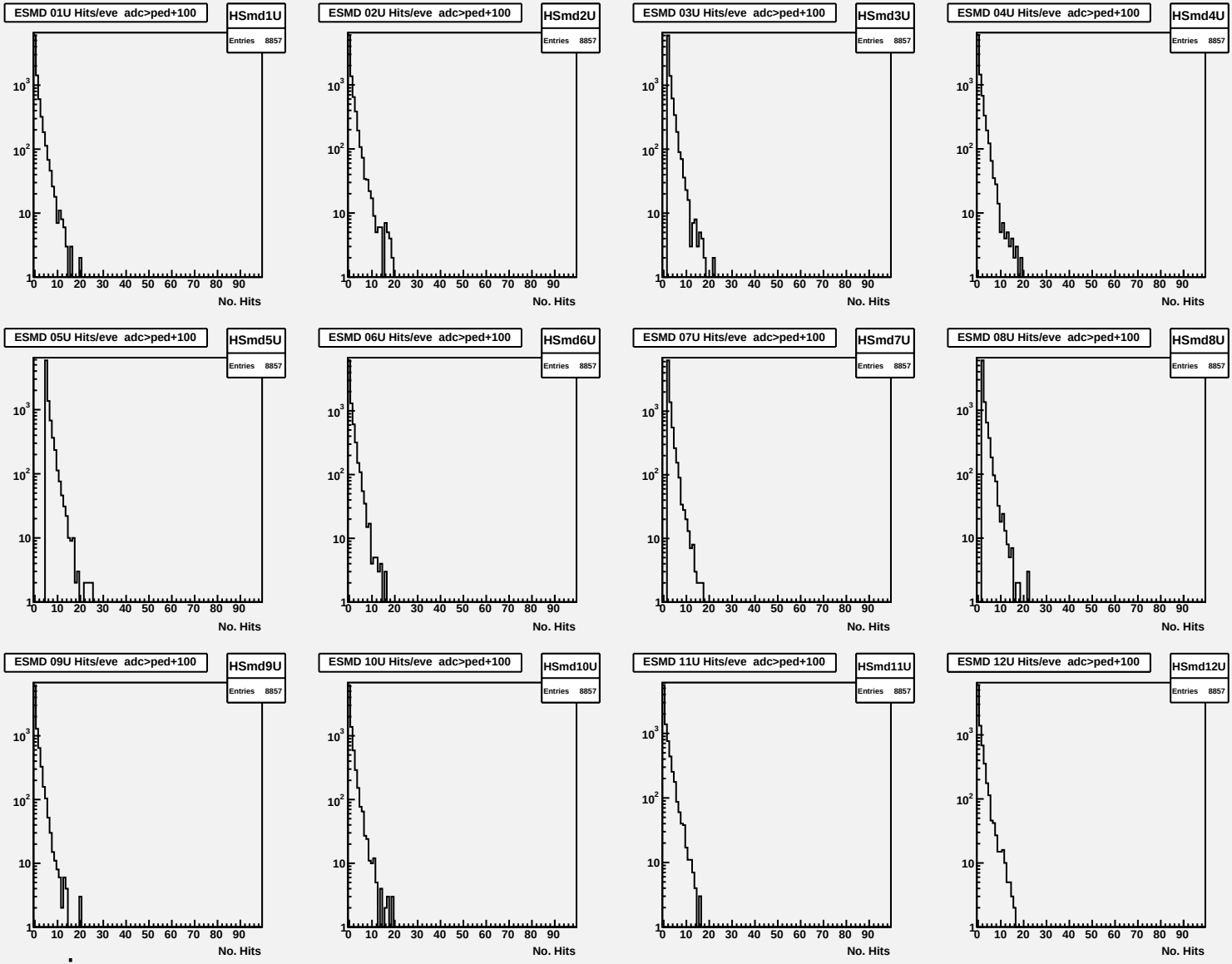

EEMC post hits>ped+50
PostHits
Entries 73371
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

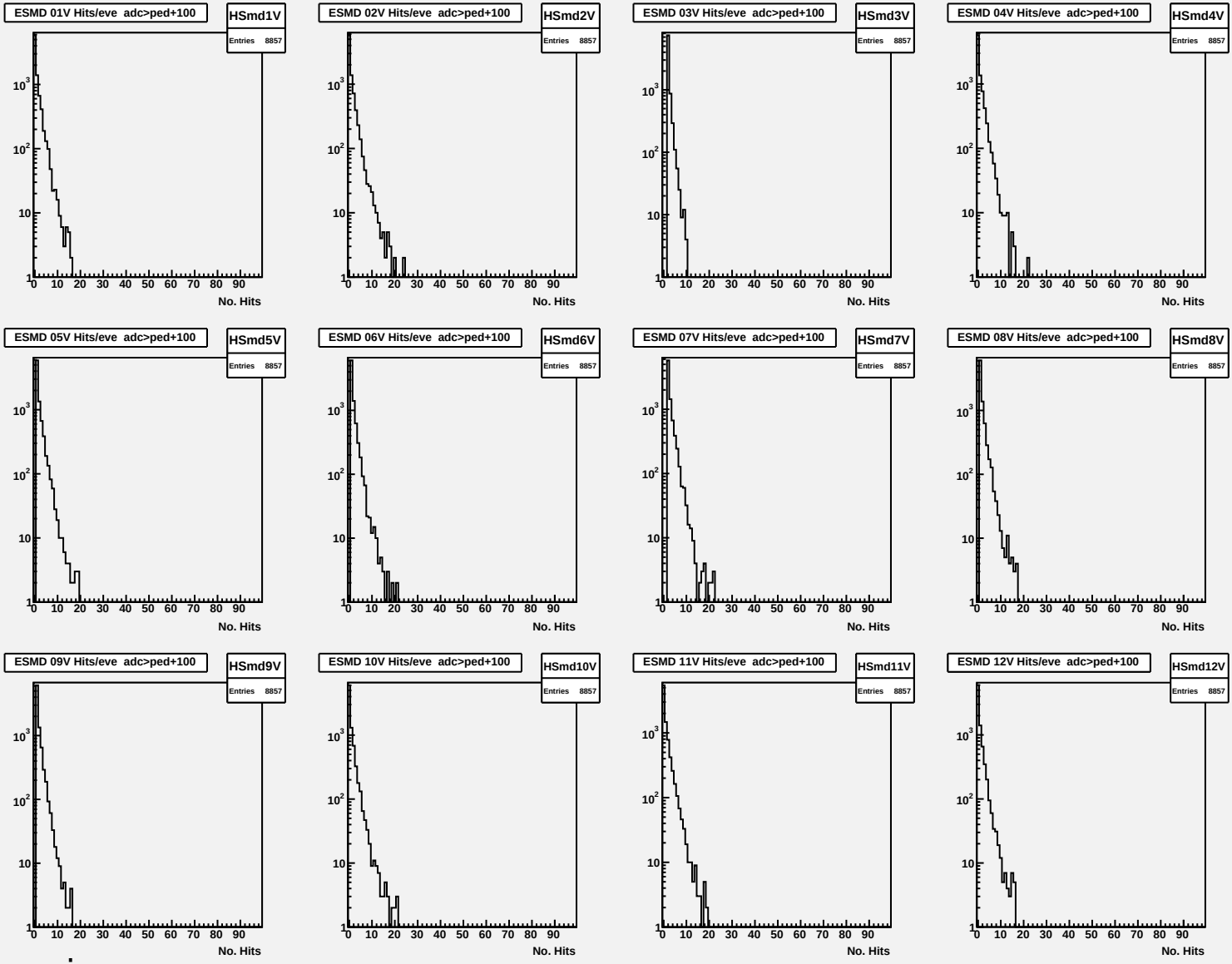

MAPMT Hits adc>ped+thr
MAPMHits
Entries 444084
tube no.
Crate ID 12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
65 70 75 80 85 90 95 100 105 110
12 10 8 6 4 2
10 10 10 10 1

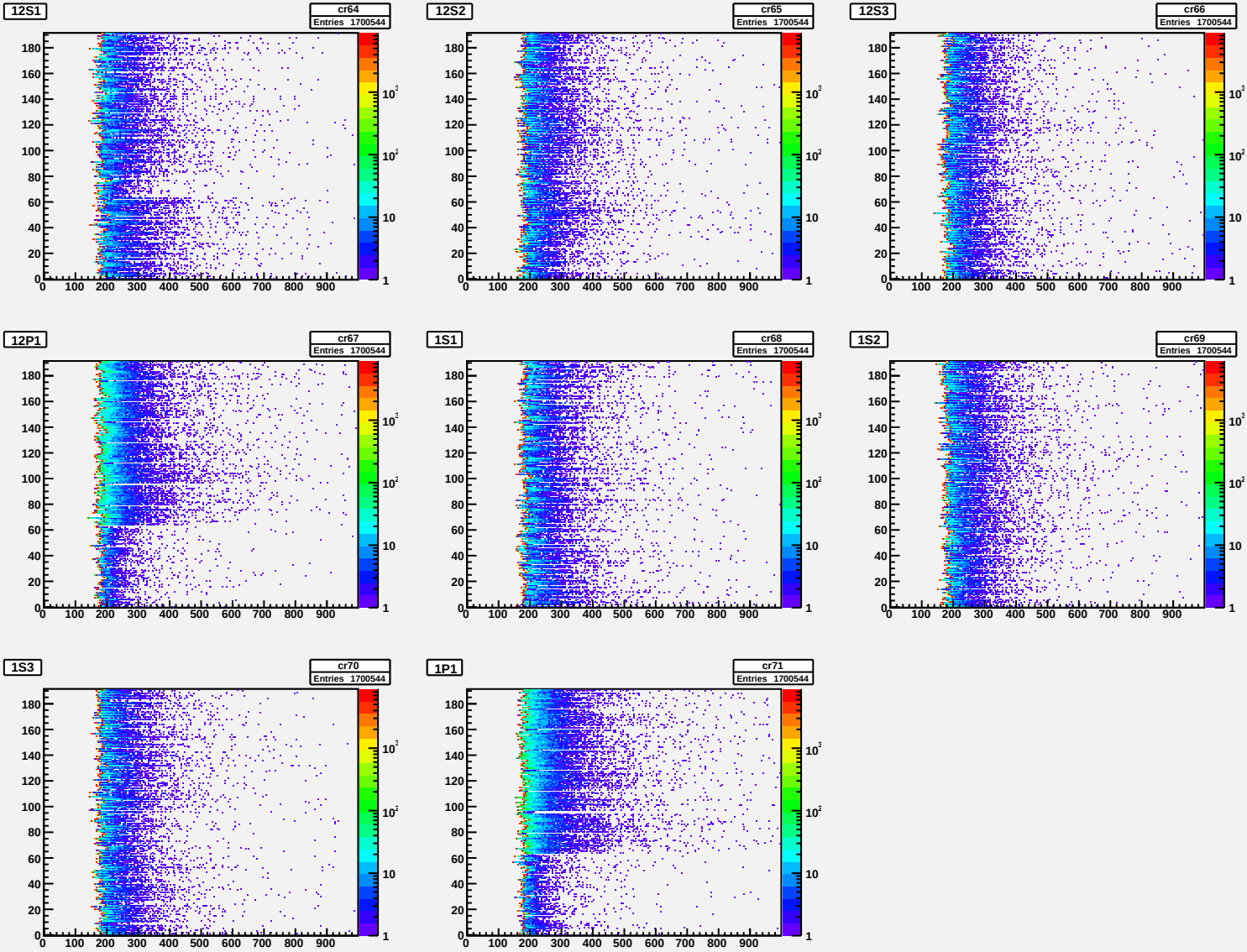

MAPMT Hits adc>ped+thr
MAPMHits2
Entries 444084
tube no.
Crate ID 6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
90 95 100 105 110
12 10 8 6 4 2
10 10 10 10 1

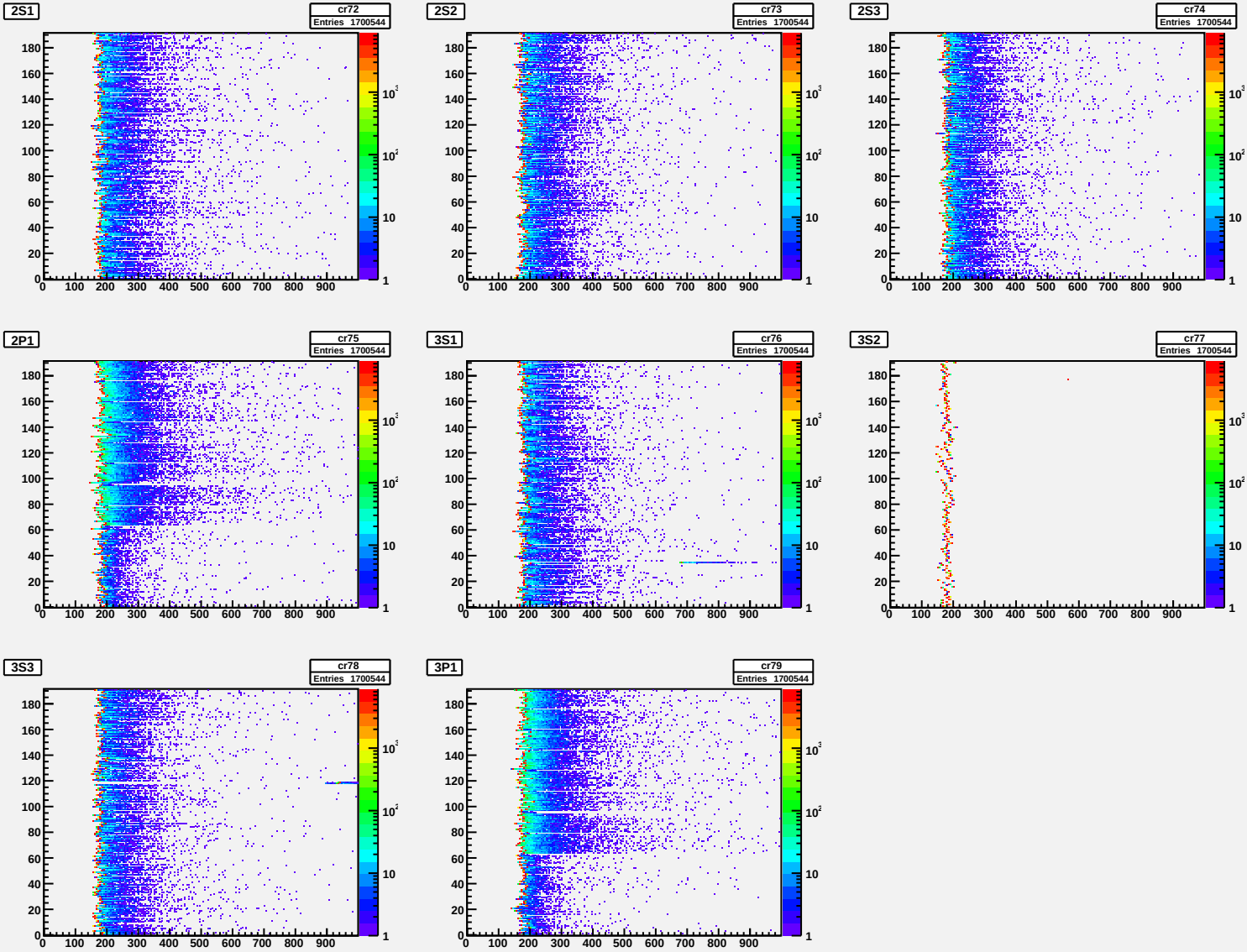

ESMD 01U adc>ped+100
SmdA1U
Entries 6535
ESMD 02U adc>ped+100
SmdA2U
Entries 7119
ESMD 03U adc>ped+100
SmdA3U
Entries 24084
ESMD 04U adc>ped+100
SmdA4U
Entries 6720
ESMD 05U adc>ped+100
SmdA5U
Entries 51441
ESMD 06U adc>ped+100
SmdA6U
Entries 5834
ESMD 07U adc>ped+100
SmdA7U
Entries 23069
ESMD 08U adc>ped+100
SmdA8U
Entries 24255
ESMD 09U adc>ped+100
SmdA9U
Entries 5869
ESMD 10U adc>ped+100
SmdA10U
Entries 5885
ESMD 11U adc>ped+100
SmdA11U
Entries 8492
ESMD 12U adc>ped+100
SmdA12U
Entries 6741
Strip no.

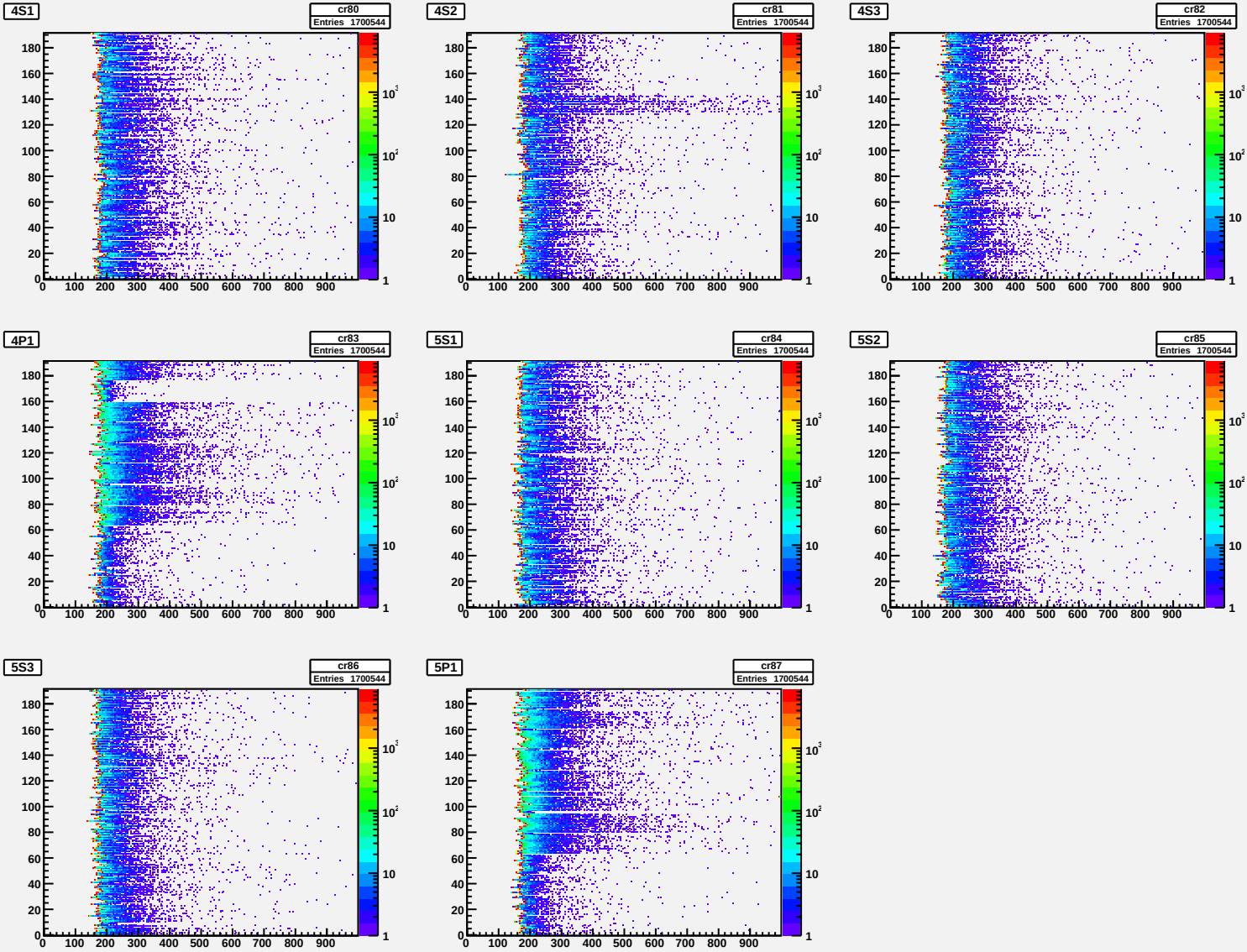

ESMD 01V adc>ped+100
SmdA1V
Entries 7346
ESMD 02V adc>ped+100
SmdA2V
Entries 7849
ESMD 03V adc>ped+100
SmdA3V
Entries 20032
ESMD 04V adc>ped+100
SmdA4V
Entries 7803
ESMD 05V adc>ped+100
SmdA5V
Entries 16074
ESMD 06V adc>ped+100
SmdA6V
Entries 15051
ESMD 07V adc>ped+100
SmdA7V
Entries 25097
ESMD 08V adc>ped+100
SmdA8V
Entries 15154
ESMD 09V adc>ped+100
SmdA9V
Entries 14842
ESMD 10V adc>ped+100
SmdA10V
Entries 7016
ESMD 11V adc>ped+100
SmdA11V
Entries 8820
ESMD 12V adc>ped+100
SmdA12V
Entries 6757
Strip no.

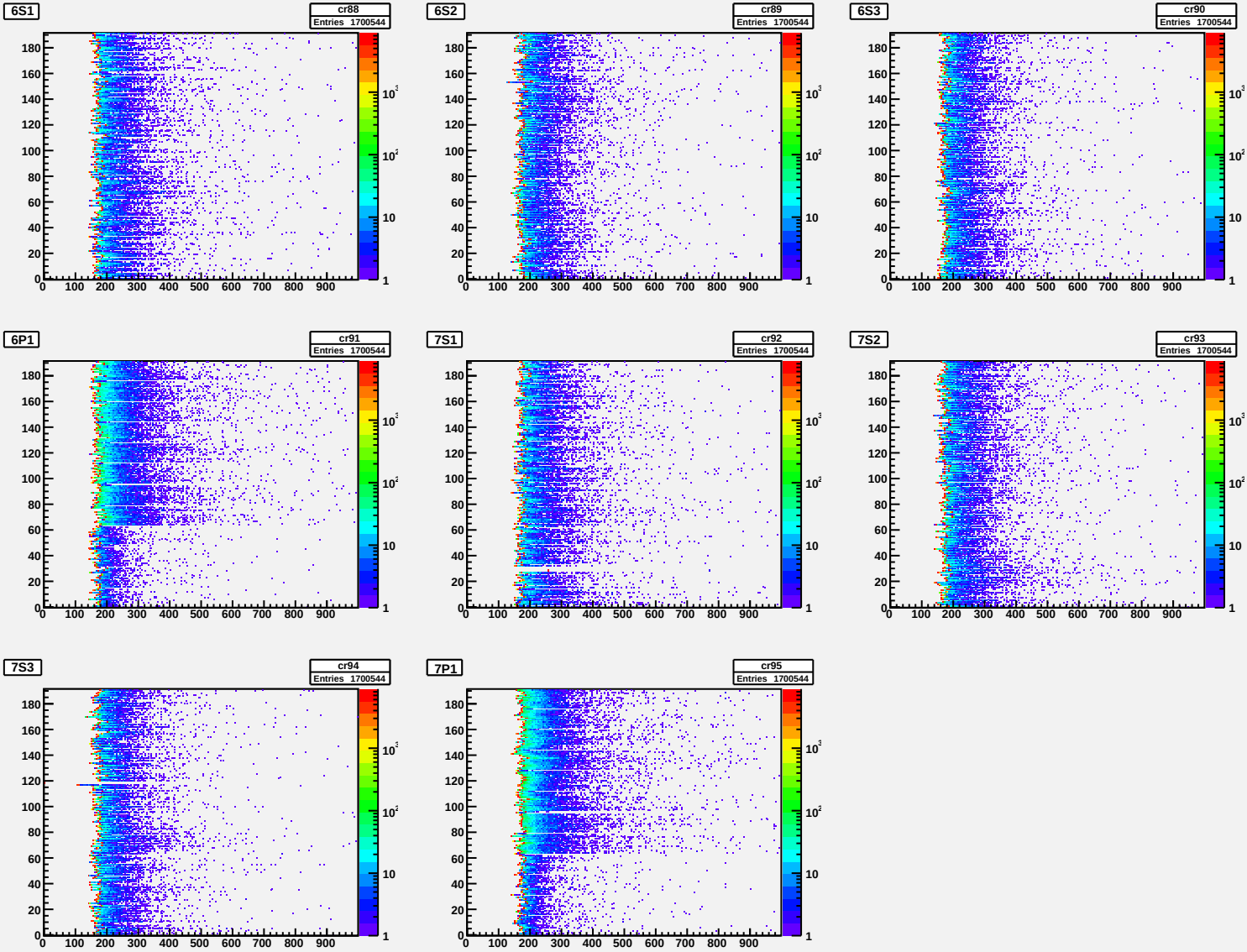

ESMD 01U Hits/eve adc>ped+100
HSmd1U
Entries 8857
ESMD 02U Hits/eve adc>ped+100
HSmd2U
Entries 8857
ESMD 03U Hits/eve adc>ped+100
HSmd3U
Entries 8857
ESMD 04U Hits/eve adc>ped+100
HSmd4U
Entries 8857
ESMD 05U Hits/eve adc>ped+100
HSmd5U
Entries 8857
ESMD 06U Hits/eve adc>ped+100
HSmd6U
Entries 8857
ESMD 07U Hits/eve adc>ped+100
HSmd7U
Entries 8857
ESMD 08U Hits/eve adc>ped+100
HSmd8U
Entries 8857
ESMD 09U Hits/eve adc>ped+100
HSmd9U
Entries 8857
ESMD 10U Hits/eve adc>ped+100
HSmd10U
Entries 8857
ESMD 11U Hits/eve adc>ped+100
HSmd11U
Entries 8857
ESMD 12U Hits/eve adc>ped+100
HSmd12U
Entries 8857
No. Hits

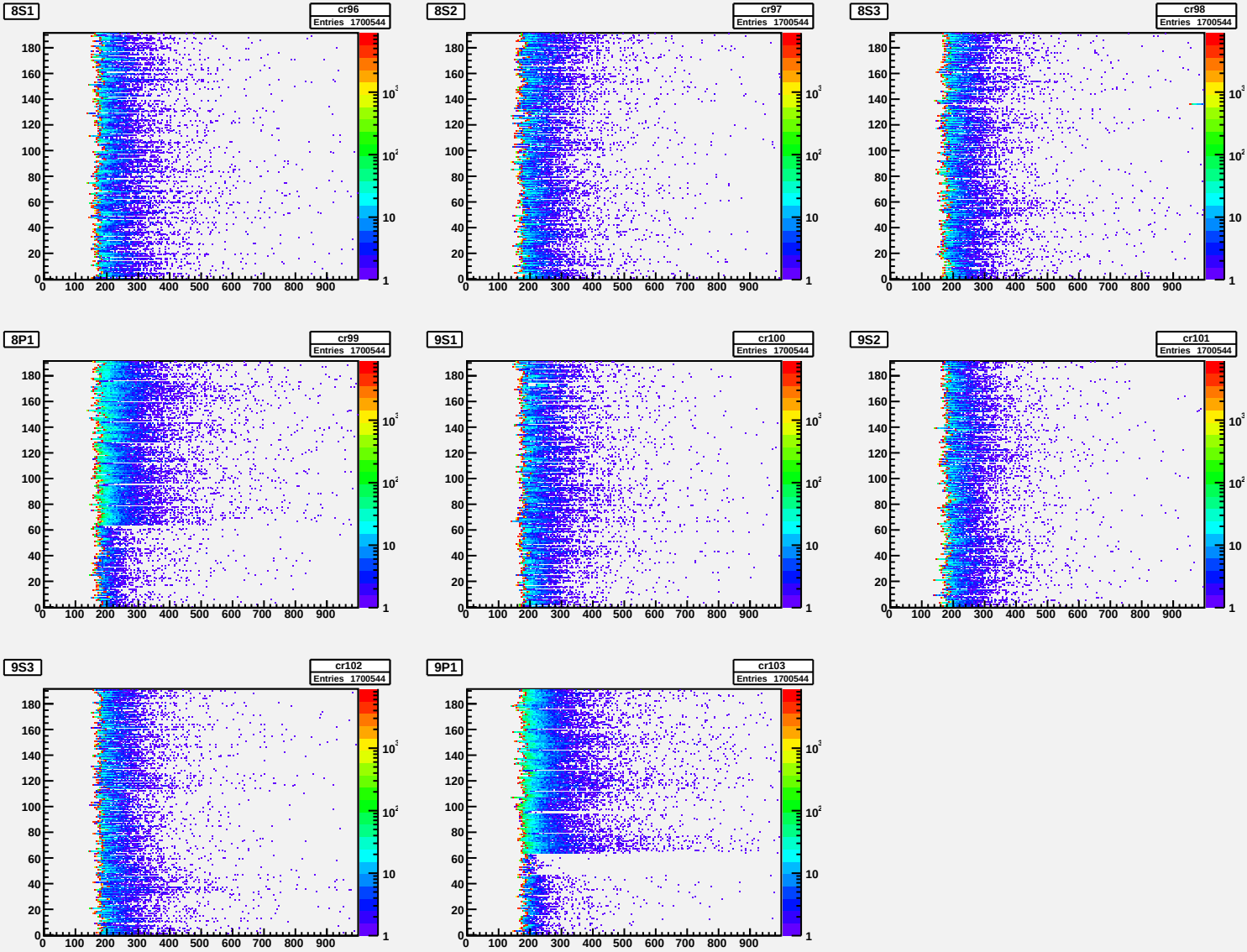

ESMD 01V Hits/eve adc>ped+100
HSmd1V
Entries 8857
ESMD 02V Hits/eve adc>ped+100
HSmd2V
Entries 8857
ESMD 03V Hits/eve adc>ped+100
HSmd3V
Entries 8857
ESMD 04V Hits/eve adc>ped+100
HSmd4V
Entries 8857
ESMD 05V Hits/eve adc>ped+100
HSmd5V
Entries 8857
ESMD 06V Hits/eve adc>ped+100
HSmd6V
Entries 8857
ESMD 07V Hits/eve adc>ped+100
HSmd7V
Entries 8857
ESMD 08V Hits/eve adc>ped+100
HSmd8V
Entries 8857
ESMD 09V Hits/eve adc>ped+100
HSmd9V
Entries 8857
ESMD 10V Hits/eve adc>ped+100
HSmd10V
Entries 8857
ESMD 11V Hits/eve adc>ped+100
HSmd11V
Entries 8857
ESMD 12V Hits/eve adc>ped+100
HSmd12V
Entries 8857
No. Hits

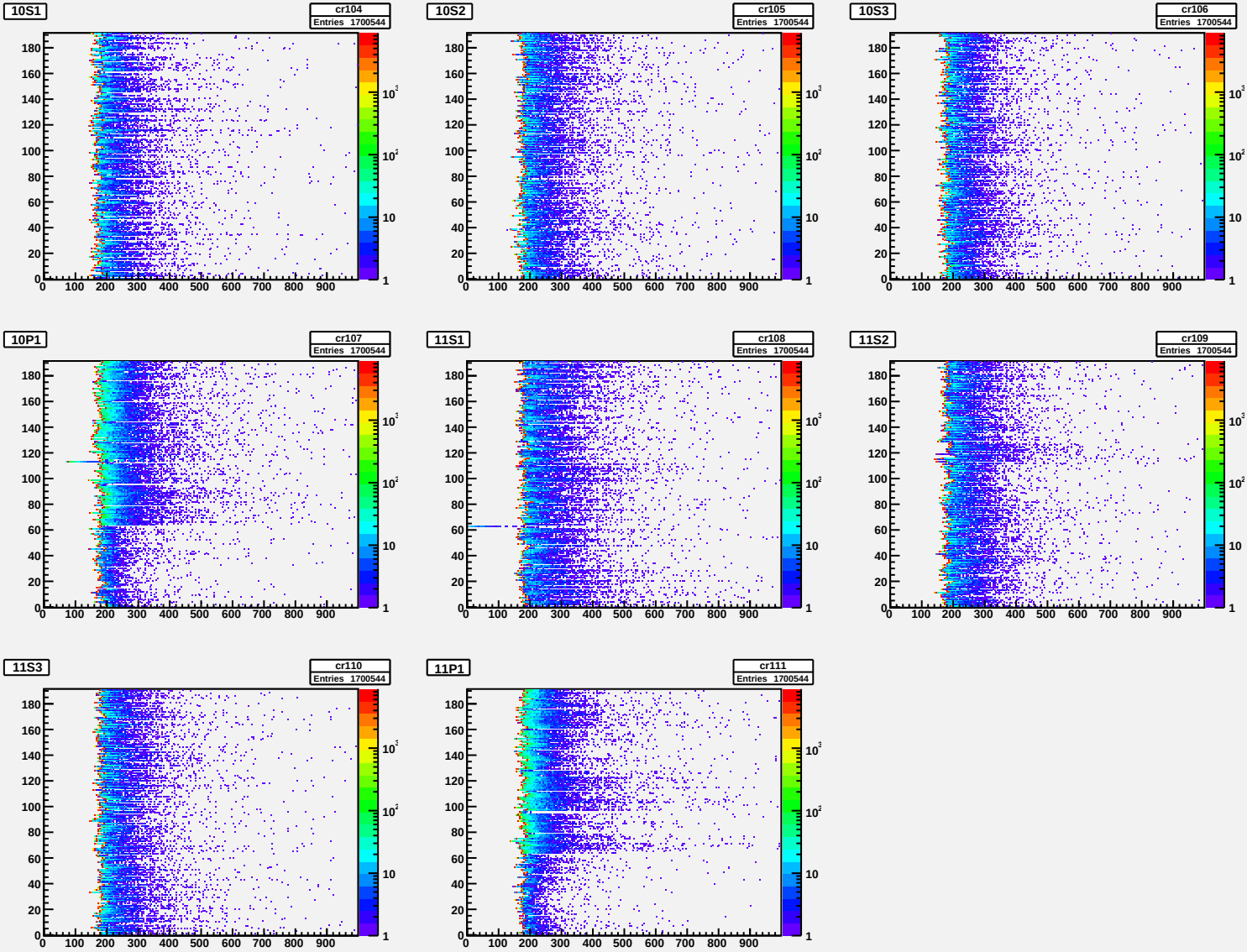

12S1
cr64
Entries 1700544
12S2
cr65
Entries 1700544
12S3
cr66
Entries 1700544
12P1
cr67
Entries 1700544
1S1
cr68
Entries 1700544
1S2
cr69
Entries 1700544
1S3
cr70
Entries 1700544
1P1
cr71
Entries 1700544


2S1
cr72
Entries 1700544
2S2
cr73
Entries 1700544
2S3
cr74
Entries 1700544
2P1
cr75
Entries 1700544
3S1
cr76
Entries 1700544
3S2
cr77
Entries 1700544
3S3
cr78
Entries 1700544
3P1
cr79
Entries 1700544

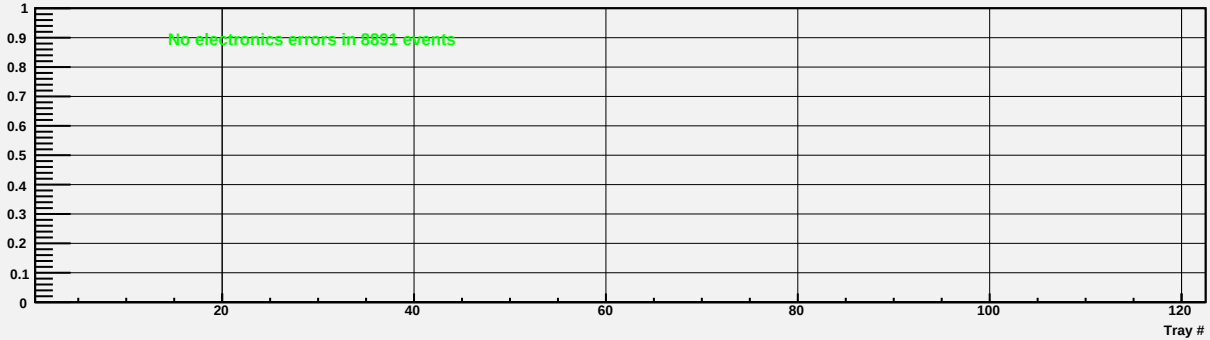

4S1
cr80
Entries 1700544
4S2
cr81
Entries 1700544
4S3
cr82
Entries 1700544
4P1
cr83
Entries 1700544
5S1
cr84
Entries 1700544
5S2
cr85
Entries 1700544
5S3
cr86
Entries 1700544
5P1
cr87
Entries 1700544


6S1
cr88
Entries 1700544
6S2
cr89
Entries 1700544
6S3
cr90
Entries 1700544
6P1
cr91
Entries 1700544
7S1
cr92
Entries 1700544
7S2
cr93
Entries 1700544
7S3
cr94
Entries 1700544
7P1
cr95
Entries 1700544

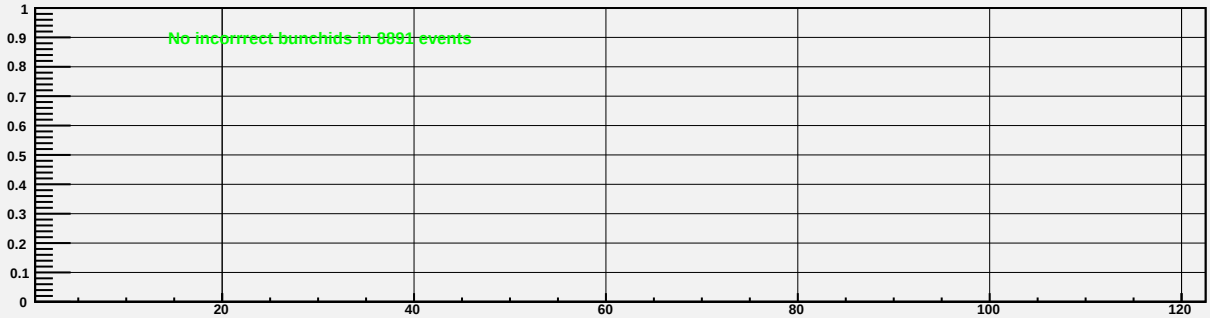

8S1
cr96
Entries 1700544
8S2
cr97
Entries 1700544
8S3
cr98
Entries 1700544
8P1
cr99
Entries 1700544
9S1
cr100
Entries 1700544
9S2
cr101
Entries 1700544
9S3
cr102
Entries 1700544
9P1
cr103
Entries 1700544


10S1
cr104
Entries 1700544
10S2
cr105
Entries 1700544
10S3
cr106
Entries 1700544
10P1
cr107
Entries 1700544
11S1
cr108
Entries 1700544
11S2
cr109
Entries 1700544
11S3
cr110
Entries 1700544
11P1
cr111
Entries 1700544

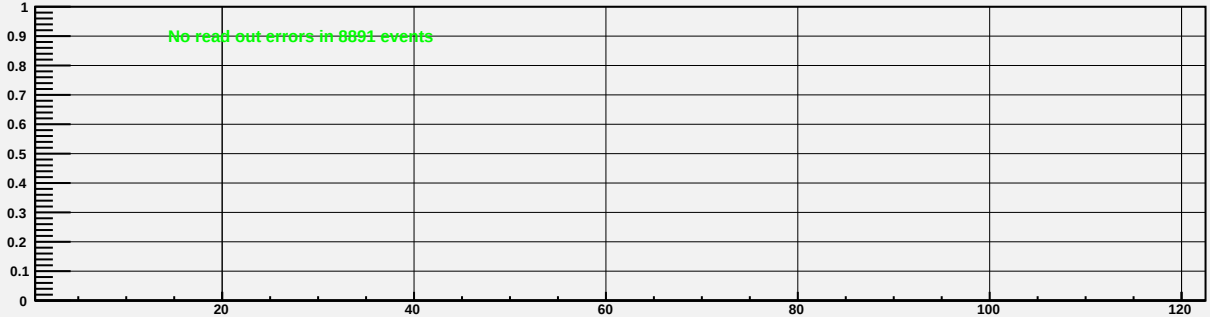
TOF electronics errors

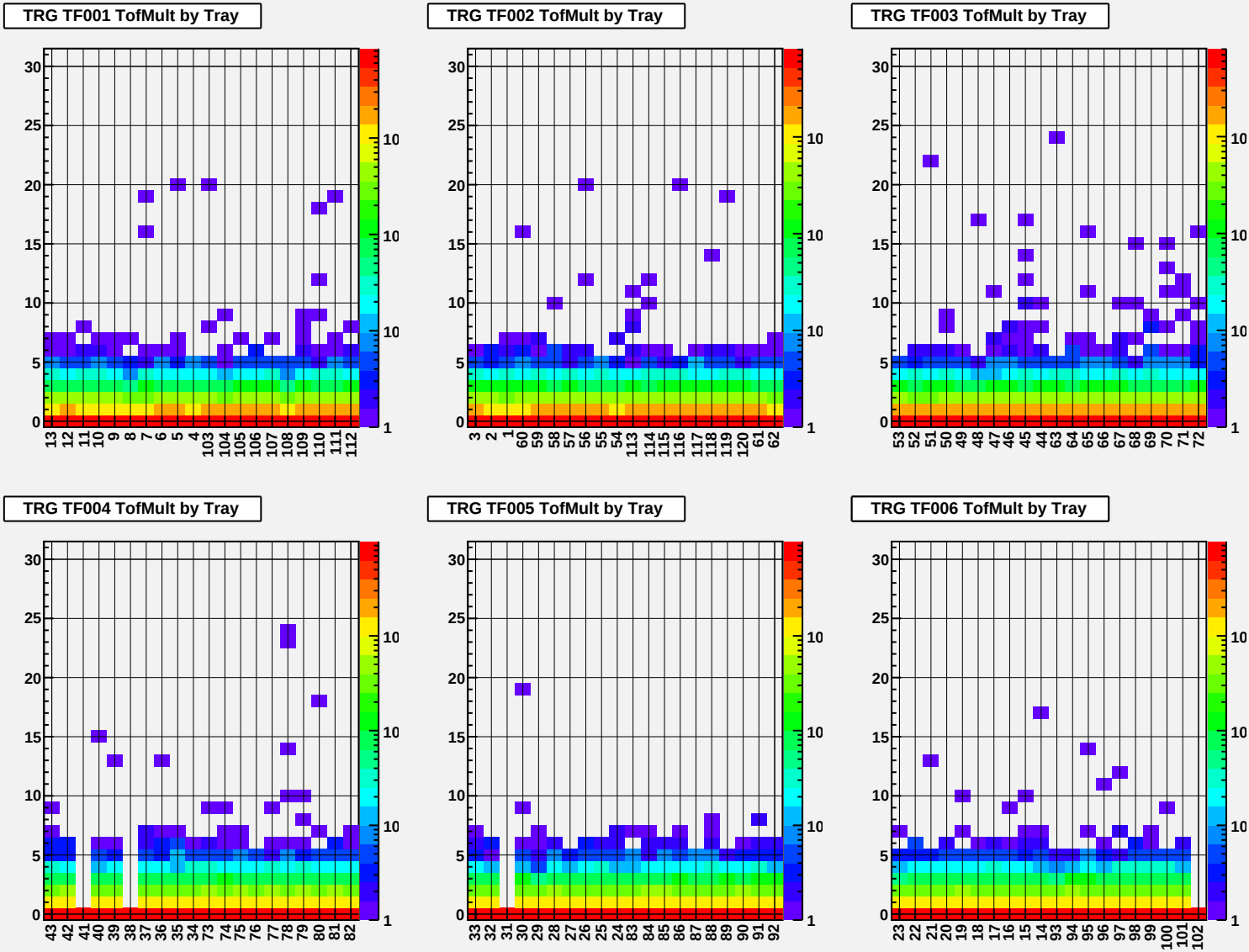


TOF incorrect bunchid errors

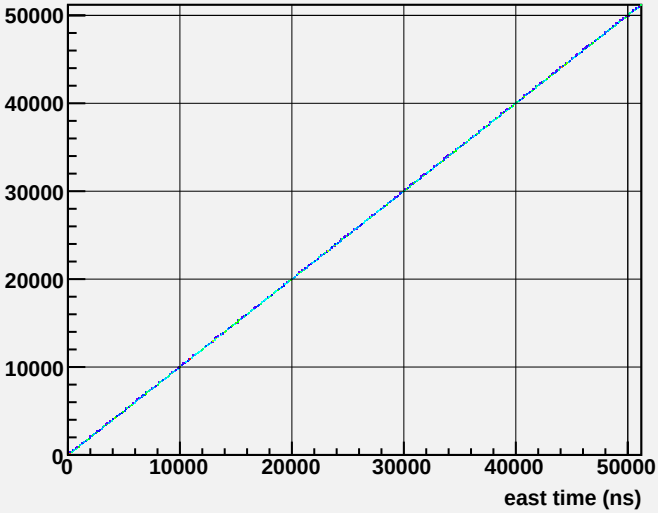


TOF trays not read out (bunchid not found)

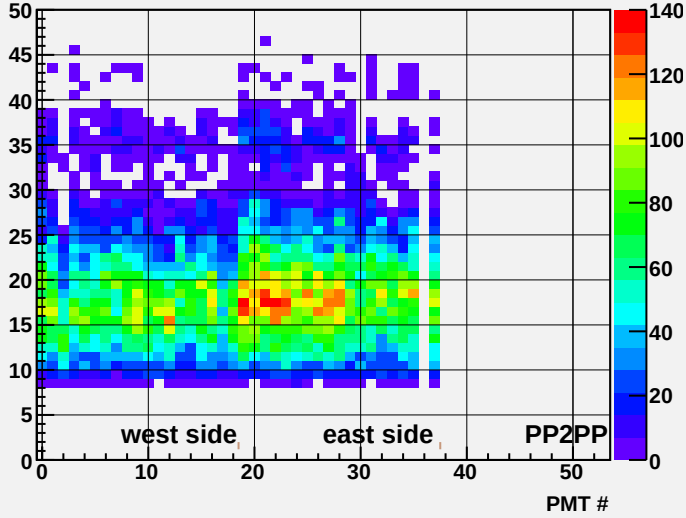



TRG TF001 TofMult by Tray
TRG TF002 TofMult by Tray
TRG TF003 TofMult by Tray
TRG TF004 TofMult by Tray
TRG TF005 TofMult by Tray
TRG TF006 TofMult by Tray

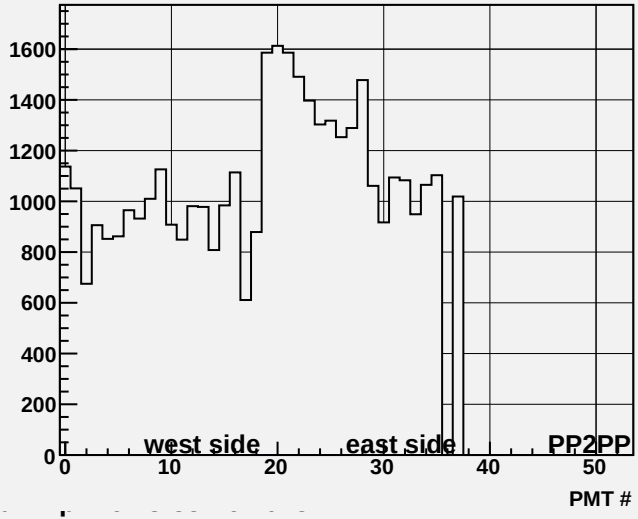
upvpd eastT vs westT



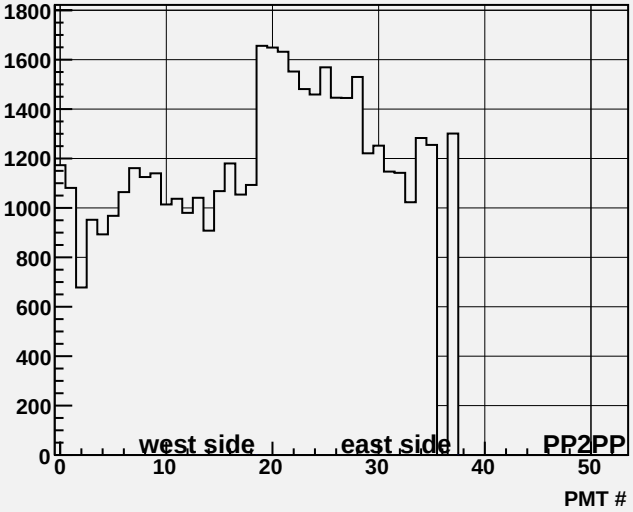
upvpd ToT vs PMT#

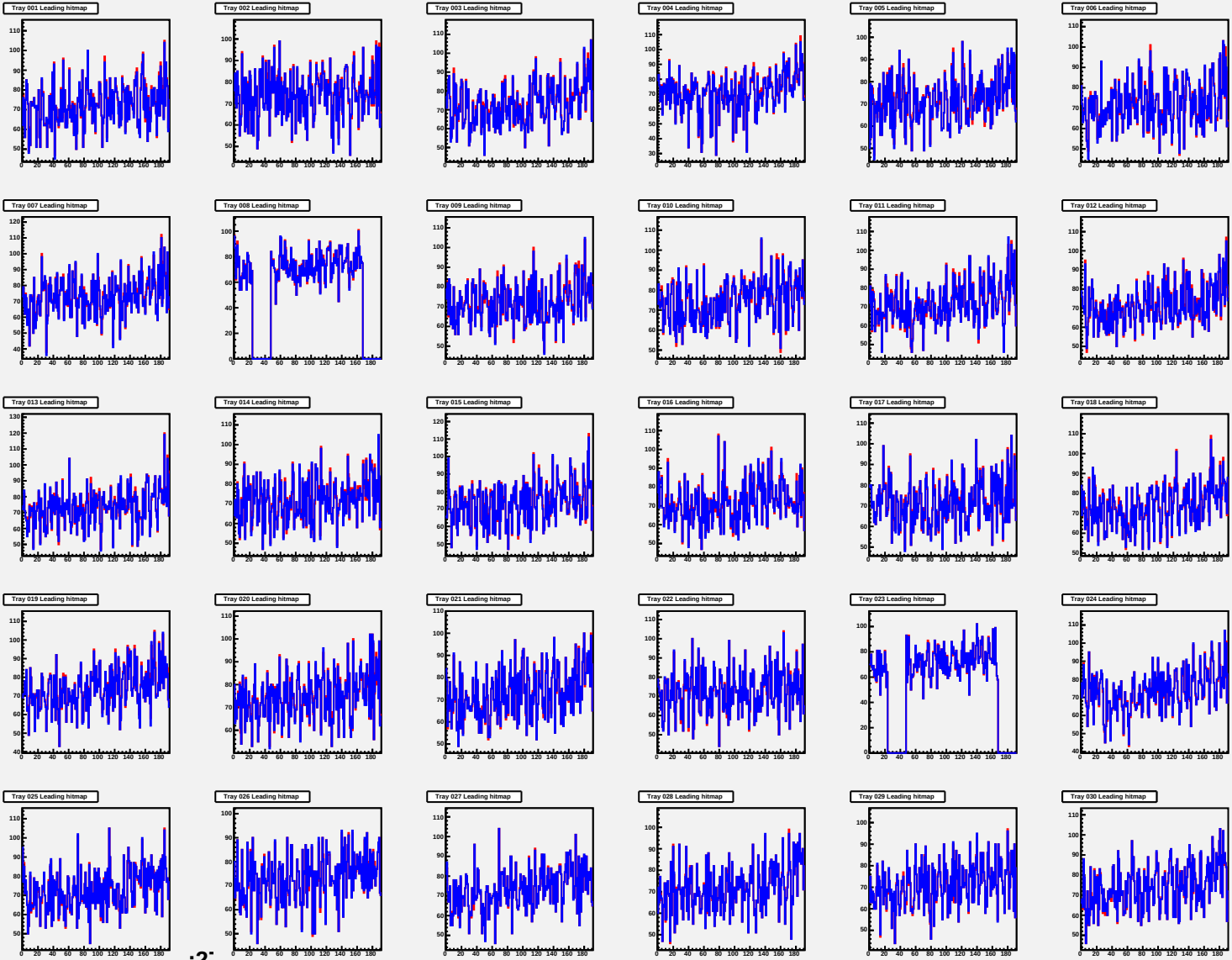


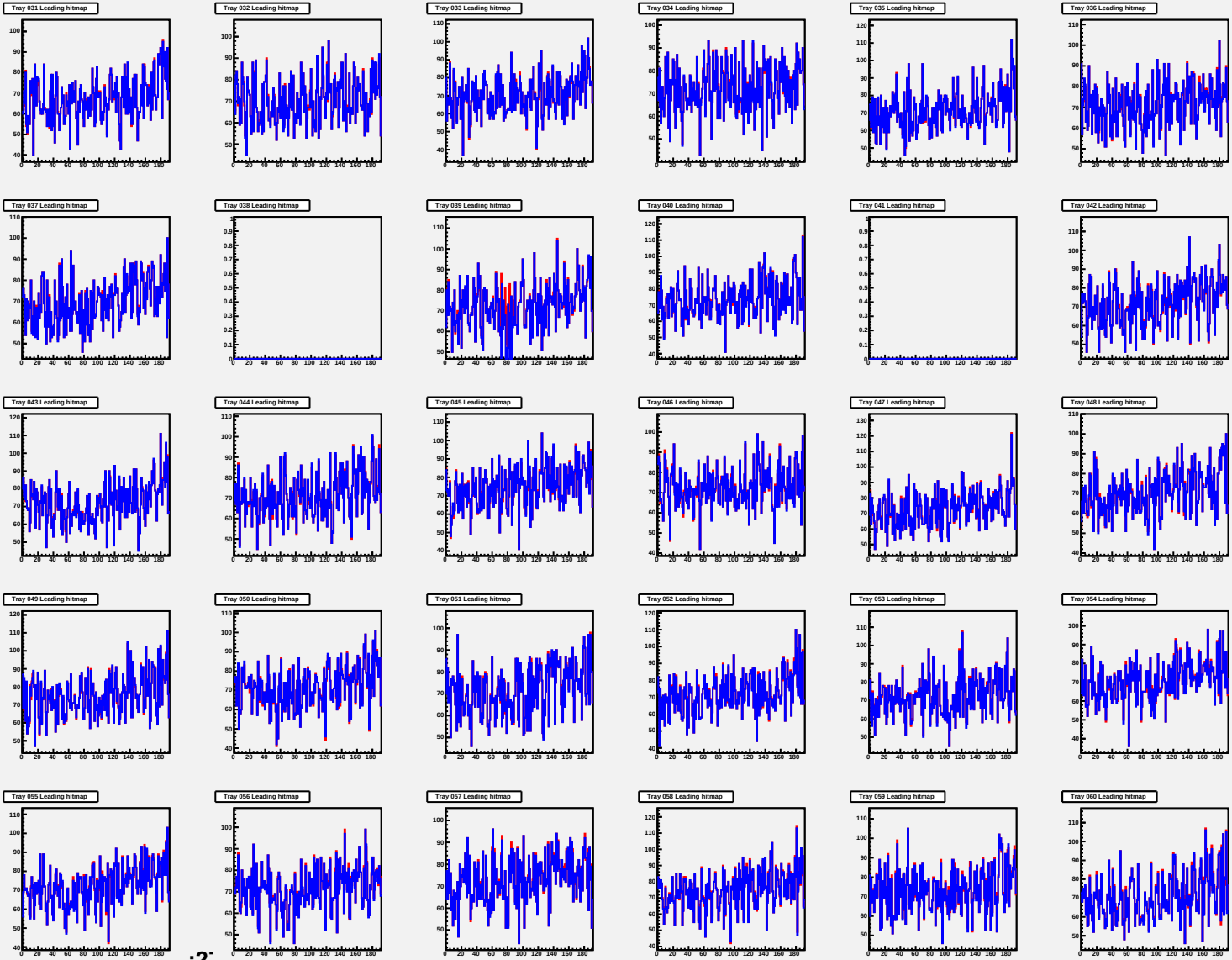
upvpd Trailing edge hitmap



upvpd Leading edge hitmap




Tray 001 Leading hitmap
Tray 002 Leading hitmap
Tray 003 Leading hitmap
Tray 004 Leading hitmap
Tray 005 Leading hitmap
Tray 006 Leading hitmap
Tray 007 Leading hitmap
Tray 008 Leading hitmap
Tray 009 Leading hitmap
Tray 010 Leading hitmap
Tray 011 Leading hitmap
Tray 012 Leading hitmap
Tray 013 Leading hitmap
Tray 014 Leading hitmap
Tray 015 Leading hitmap
Tray 016 Leading hitmap
Tray 017 Leading hitmap
Tray 018 Leading hitmap
Tray 019 Leading hitmap
Tray 020 Leading hitmap
Tray 021 Leading hitmap
Tray 022 Leading hitmap
Tray 023 Leading hitmap
Tray 024 Leading hitmap
Tray 025 Leading hitmap
Tray 026 Leading hitmap
Tray 027 Leading hitmap
Tray 028 Leading hitmap
Tray 029 Leading hitmap
Tray 030 Leading hitmap


Tray 031 Leading hitmap
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Tray 046 Leading hitmap
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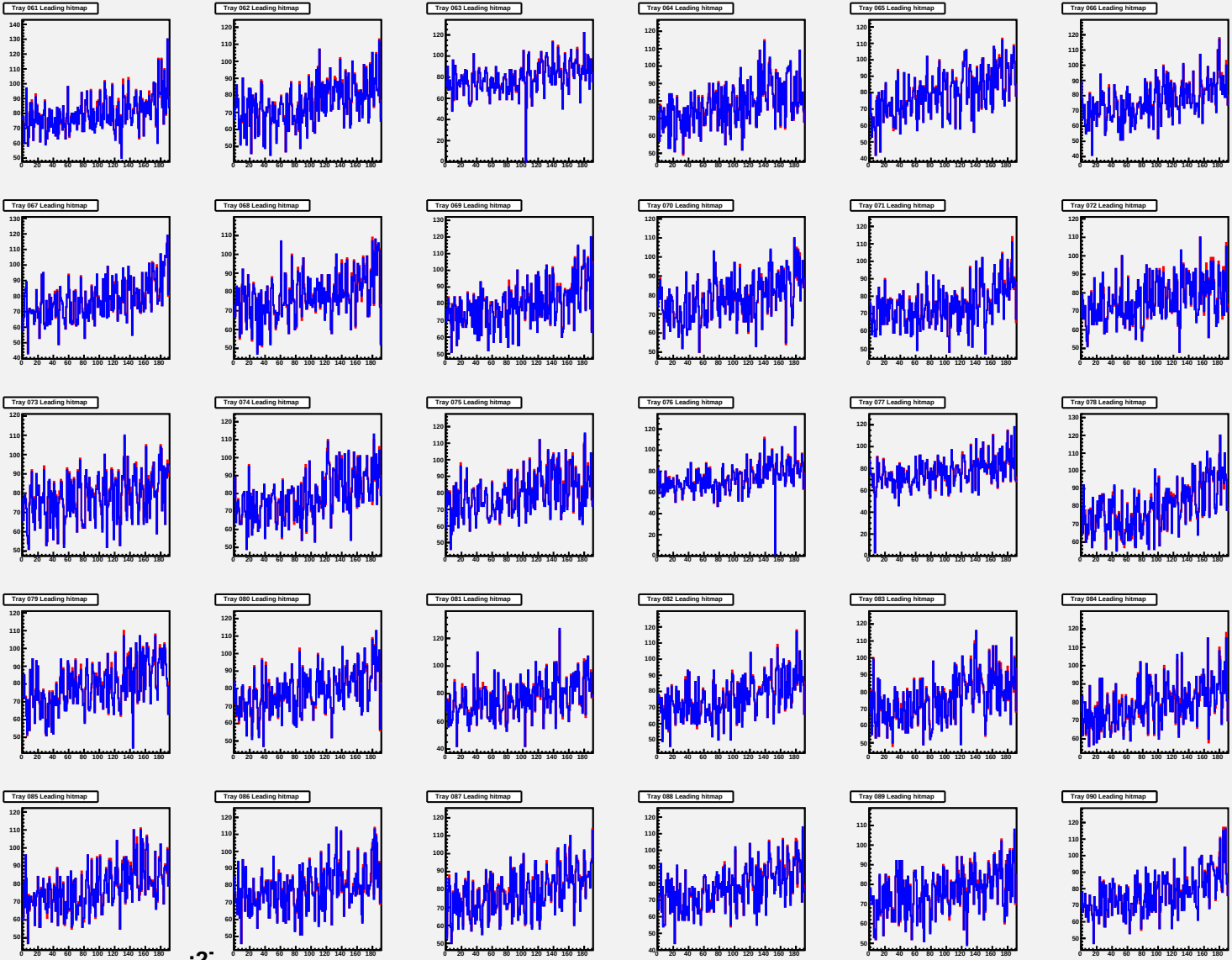
Tray 060 Leading hitmap


Tray 061 Leading hitmap
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Tray 089 Leading hitmap
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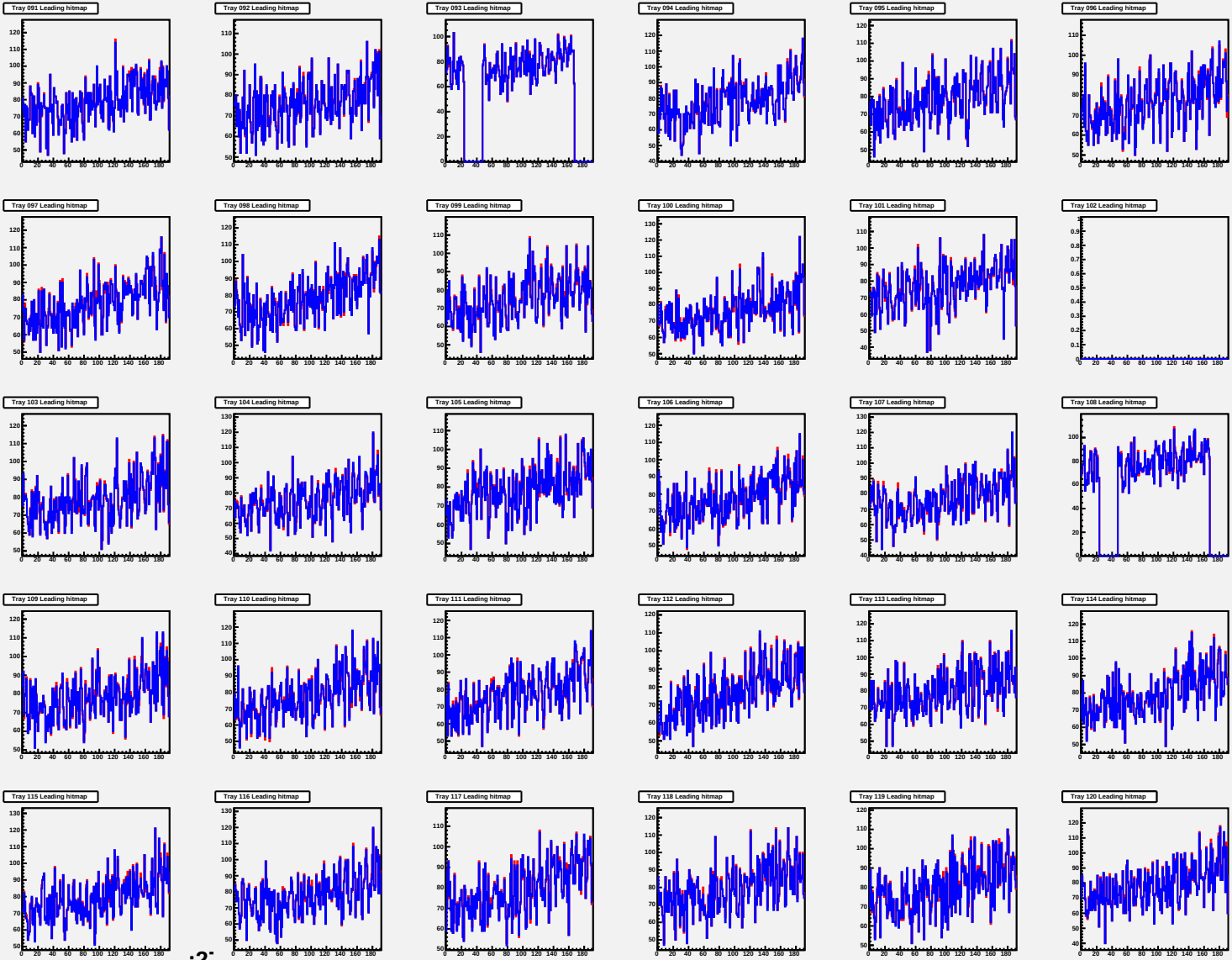
Tray 091 Leading hitmap
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Tray 097 Leading hitmap
Tray 098 Leading hitmap
Tray 099 Leading hitmap
Tray 100 Leading hitmap
Tray 101 Leading hitmap
Tray 102 Leading hitmap
Tray 103 Leading hitmap
Tray 104 Leading hitmap
Tray 105 Leading hitmap
Tray 106 Leading hitmap
Tray 107 Leading hitmap
Tray 108 Leading hitmap
Tray 109 Leading hitmap
Tray 110 Leading hitmap
Tray 111 Leading hitmap
Tray 112 Leading hitmap
Tray 113 Leading hitmap
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Tray 116 Leading hitmap
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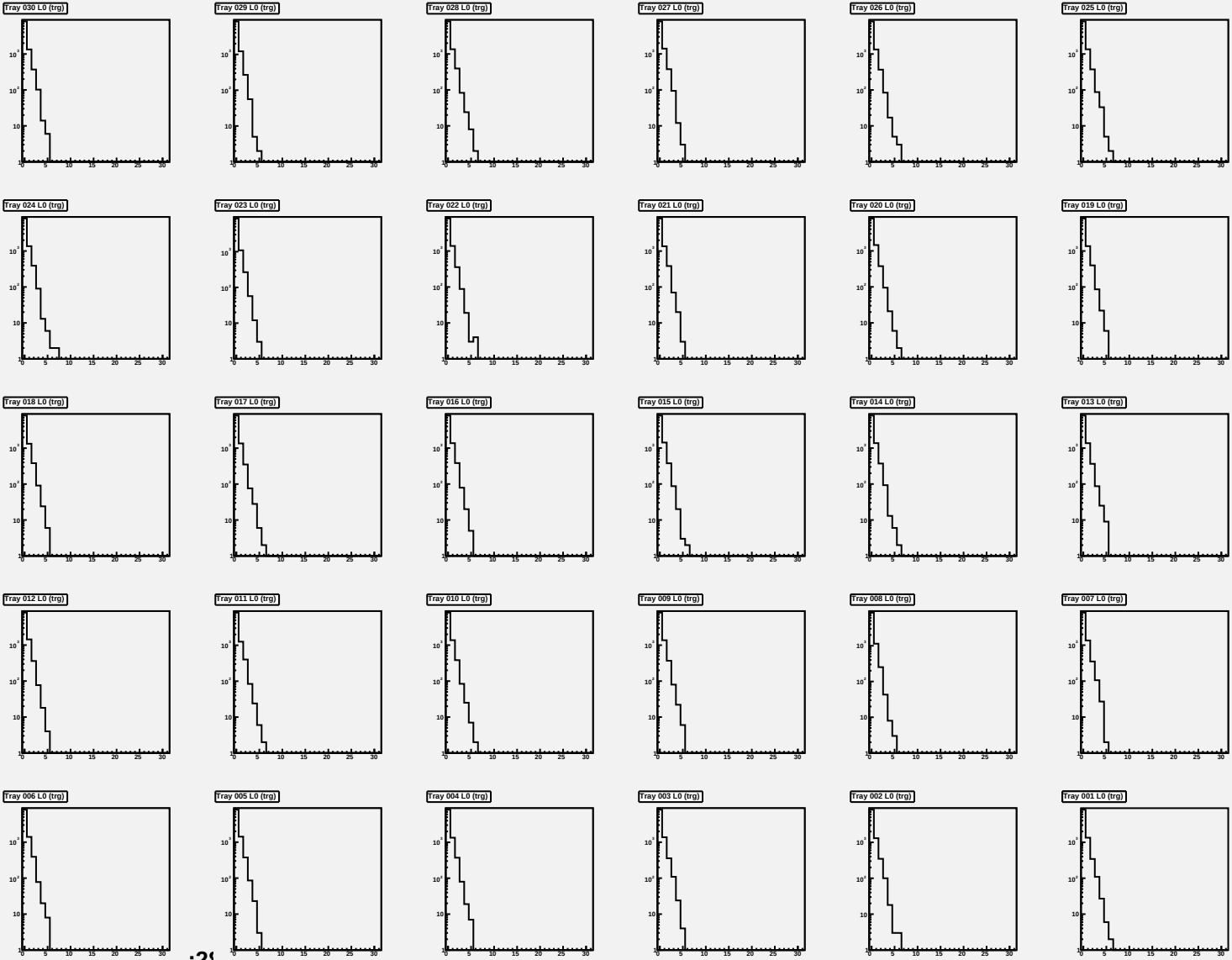
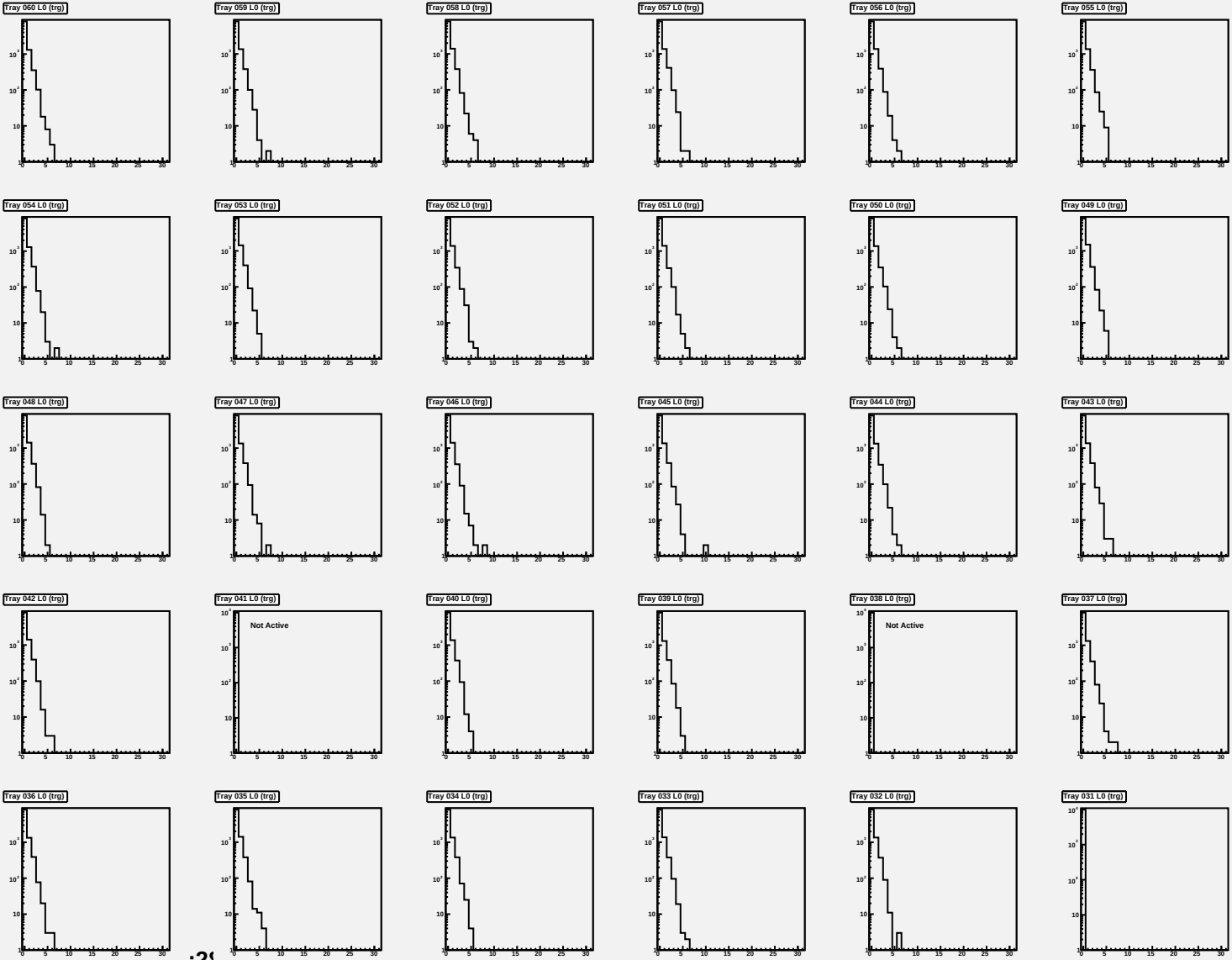
Tray 118 Leading hitmap
Tray 119 Leading hitmap
Tray 120 Leading hitmap


Tray 030 L0 (trg)
Tray 029 L0 (trg)
Tray 028 L0 (trg)
Tray 027 L0 (trg)
Tray 026 L0 (trg)
Tray 025 L0 (trg)
Tray 024 L0 (trg)
Tray 023 L0 (trg)
Tray 022 L0 (trg)
Tray 021 L0 (trg)
Tray 020 L0 (trg)
Tray 019 L0 (trg)
Tray 018 L0 (trg)
Tray 017 L0 (trg)
Tray 016 L0 (trg)
Tray 015 L0 (trg)
Tray 014 L0 (trg)
Tray 013 L0 (trg)
Tray 012 L0 (trg)
Tray 011 L0 (trg)
Tray 010 L0 (trg)
Tray 009 L0 (trg)
Tray 008 L0 (trg)
Tray 007 L0 (trg)
Tray 006 L0 (trg)
Tray 005 L0 (trg)
Tray 004 L0 (trg)
Tray 003 L0 (trg)
Tray 002 L0 (trg)
Tray 001 L0 (trg)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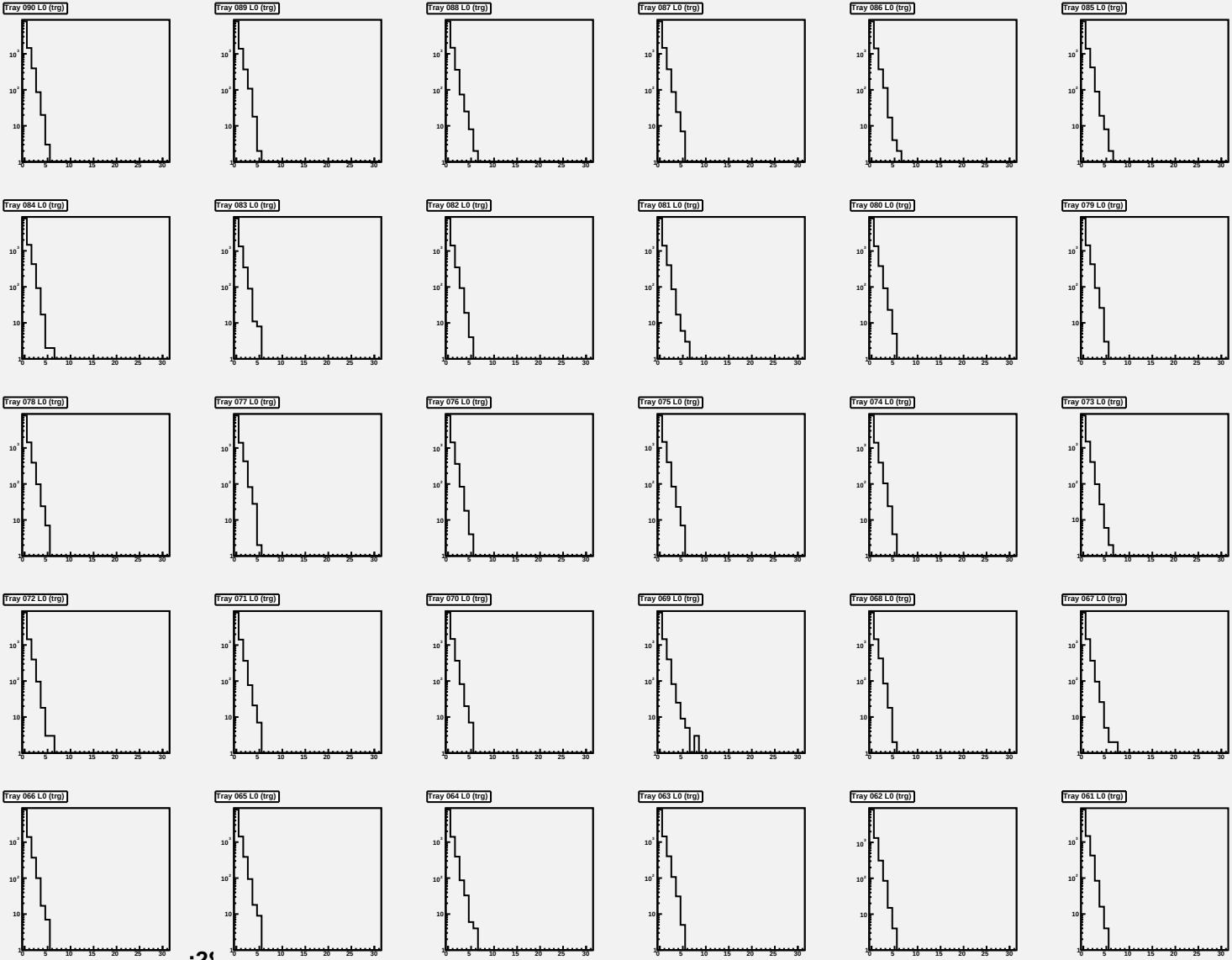
Tray 048 L0 (trg)
Tray 047 L0 (trg)
Tray 046 L0 (trg)
Tray 045 L0 (trg)
Tray 044 L0 (trg)
Tray 043 L0 (trg)
Tray 042 L0 (trg)
Tray 041 L0 (trg)
Not Active
Tray 040 L0 (trg)
Tray 039 L0 (trg)
Tray 038 L0 (trg)
Not Active
Tray 037 L0 (trg)
Tray 036 L0 (trg)
Tray 035 L0 (trg)
Tray 034 L0 (trg)
Tray 033 L0 (trg)
Tray 032 L0 (trg)
Tray 031 L0 (trg)


Tray 090 L0 (trg)
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Tray 077 L0 (trg)
Tray 076 L0 (trg)
Tray 075 L0 (trg)
Tray 074 L0 (trg)
Tray 073 L0 (trg)
Tray 072 L0 (trg)
Tray 071 L0 (trg)
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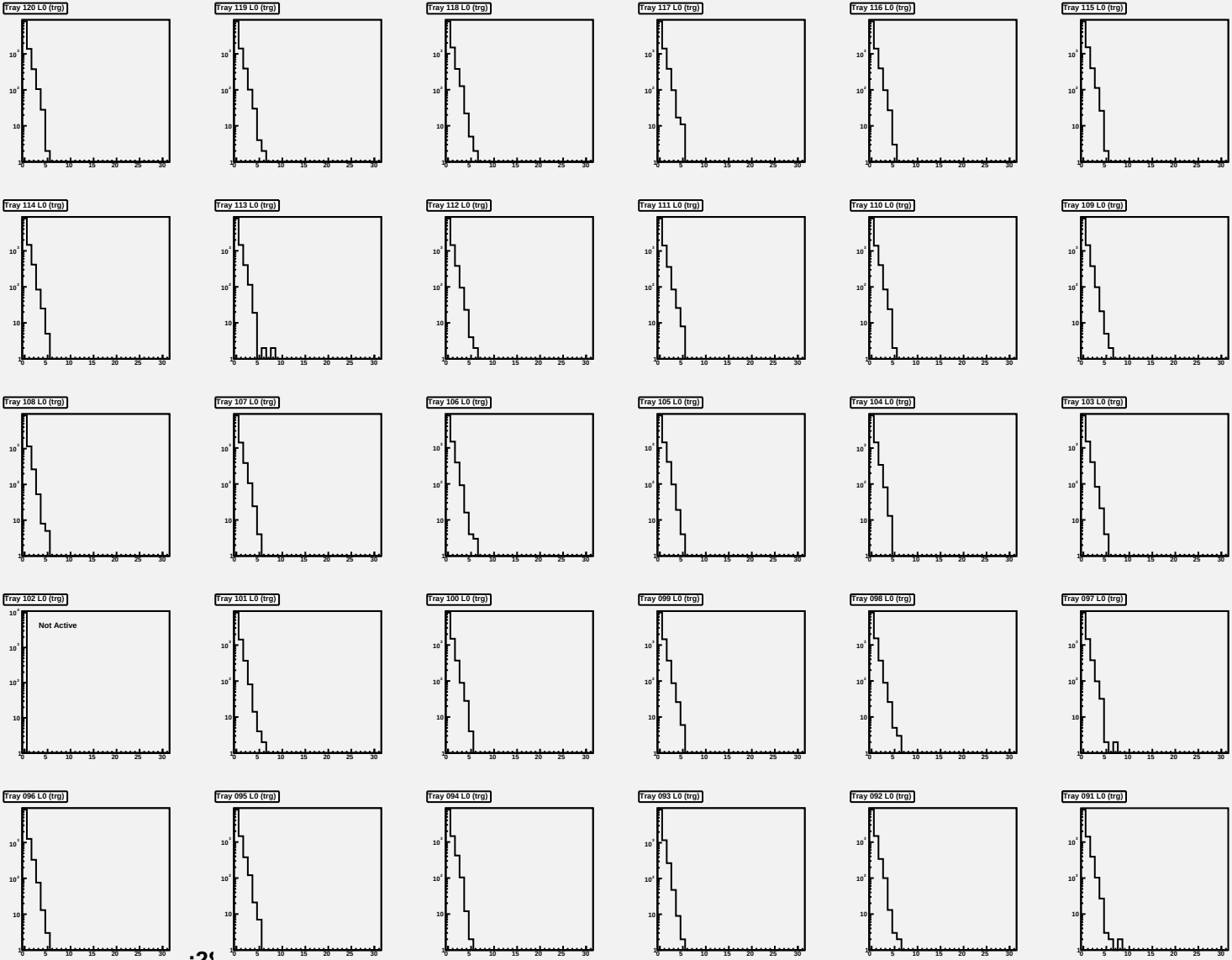
Tray 063 L0 (trg)
Tray 062 L0 (trg)
Tray 061 L0 (trg)


Tray 120 L0 (trg)
Tray 119 L0 (trg)
Tray 118 L0 (trg)
Tray 117 L0 (trg)
Tray 116 L0 (trg)
Tray 115 L0 (trg)
Tray 114 L0 (trg)
Tray 113 L0 (trg)
Tray 112 L0 (trg)
Tray 111 L0 (trg)
Tray 110 L0 (trg)
Tray 109 L0 (trg)
Tray 108 L0 (trg)
Tray 107 L0 (trg)
Tray 106 L0 (trg)
Tray 105 L0 (trg)
Tray 104 L0 (trg)
Tray 103 L0 (trg)
Tray 102 L0 (trg)
Not Active
Tray 101 L0 (trg)
Tray 100 L0 (trg)
Tray 099 L0 (trg)
Tray 098 L0 (trg)
Tray 097 L0 (trg)
Tray 096 L0 (trg)
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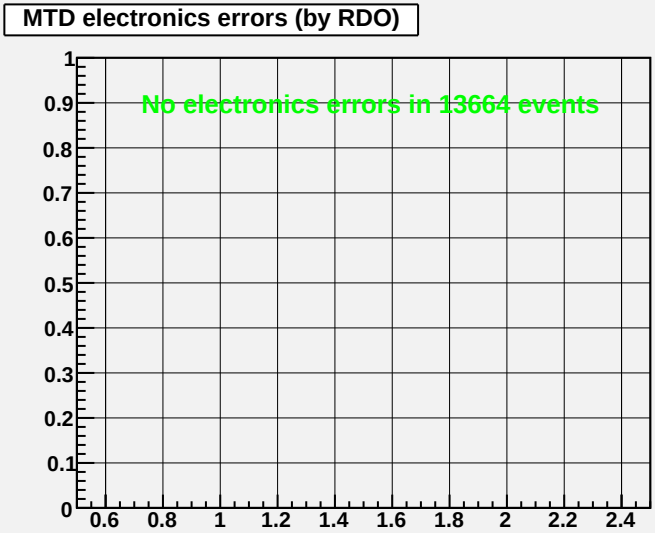
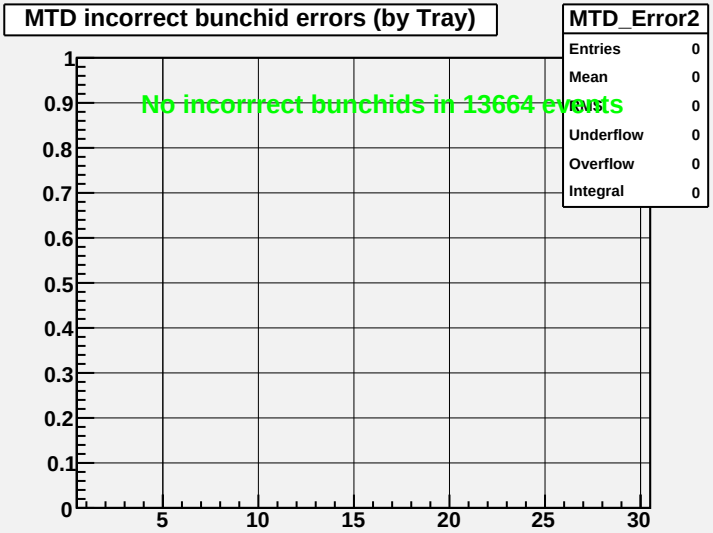
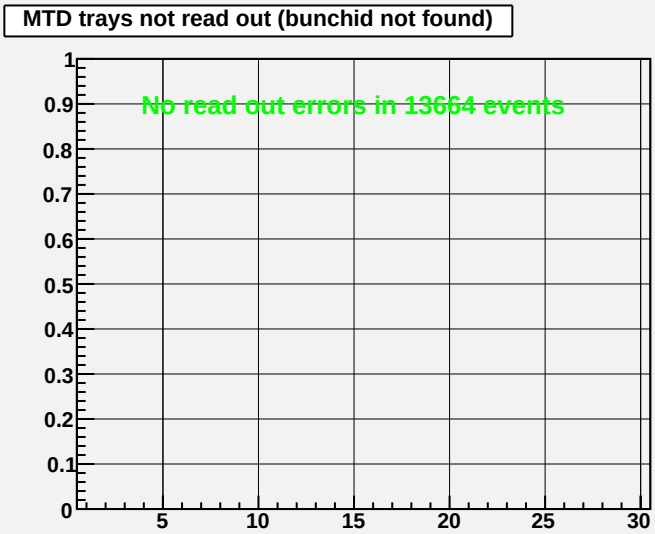
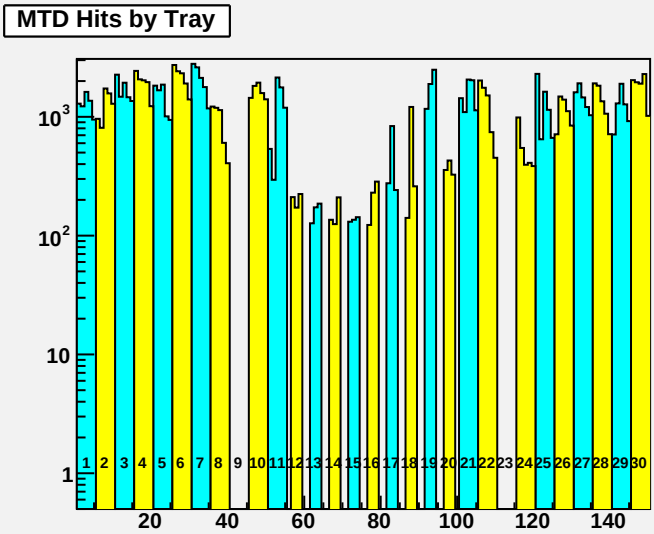
Tray 093 L0 (trg)
Tray 092 L0 (trg)
Tray 091 L0 (trg)

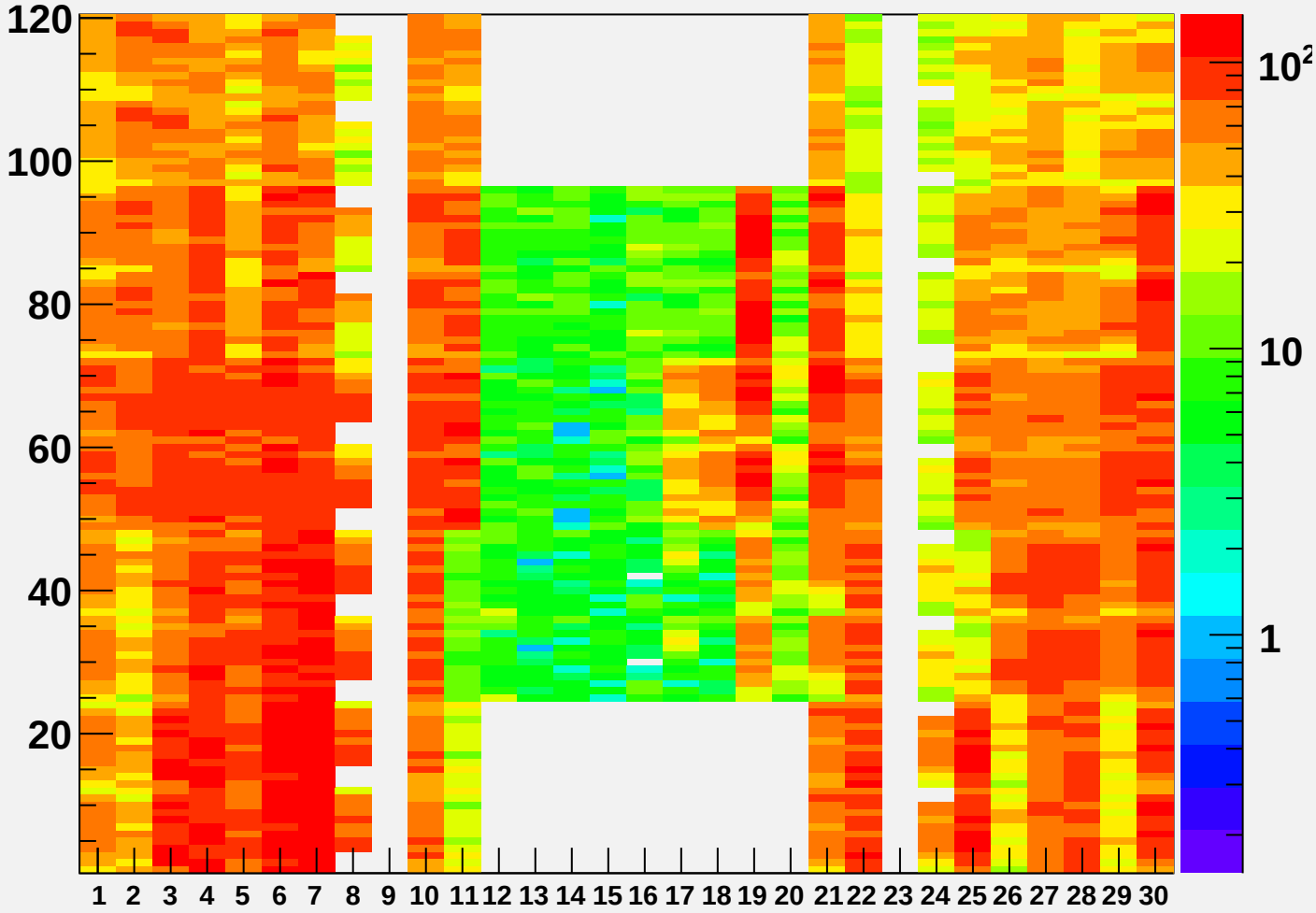

MTD electronics errors (by RDO)
No electronics errors in 13664 events


MTD incorrect bunchid errors (by Tray)
No incorrect bunchids in 13664 events
MTD_Error2
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0

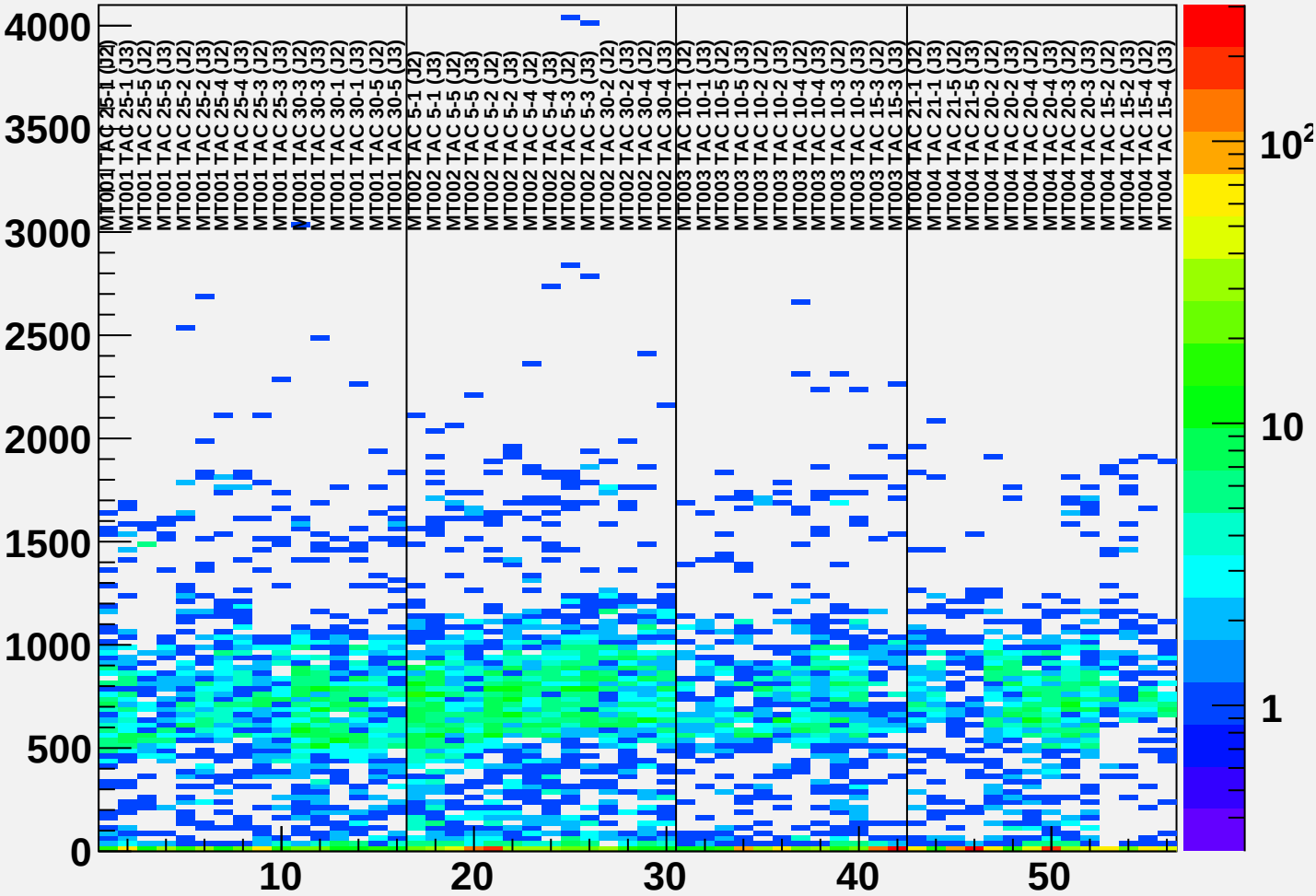

MTD trays not read out (bunchid not found)
No read out errors in 13664 events


MTD Hits by Tray

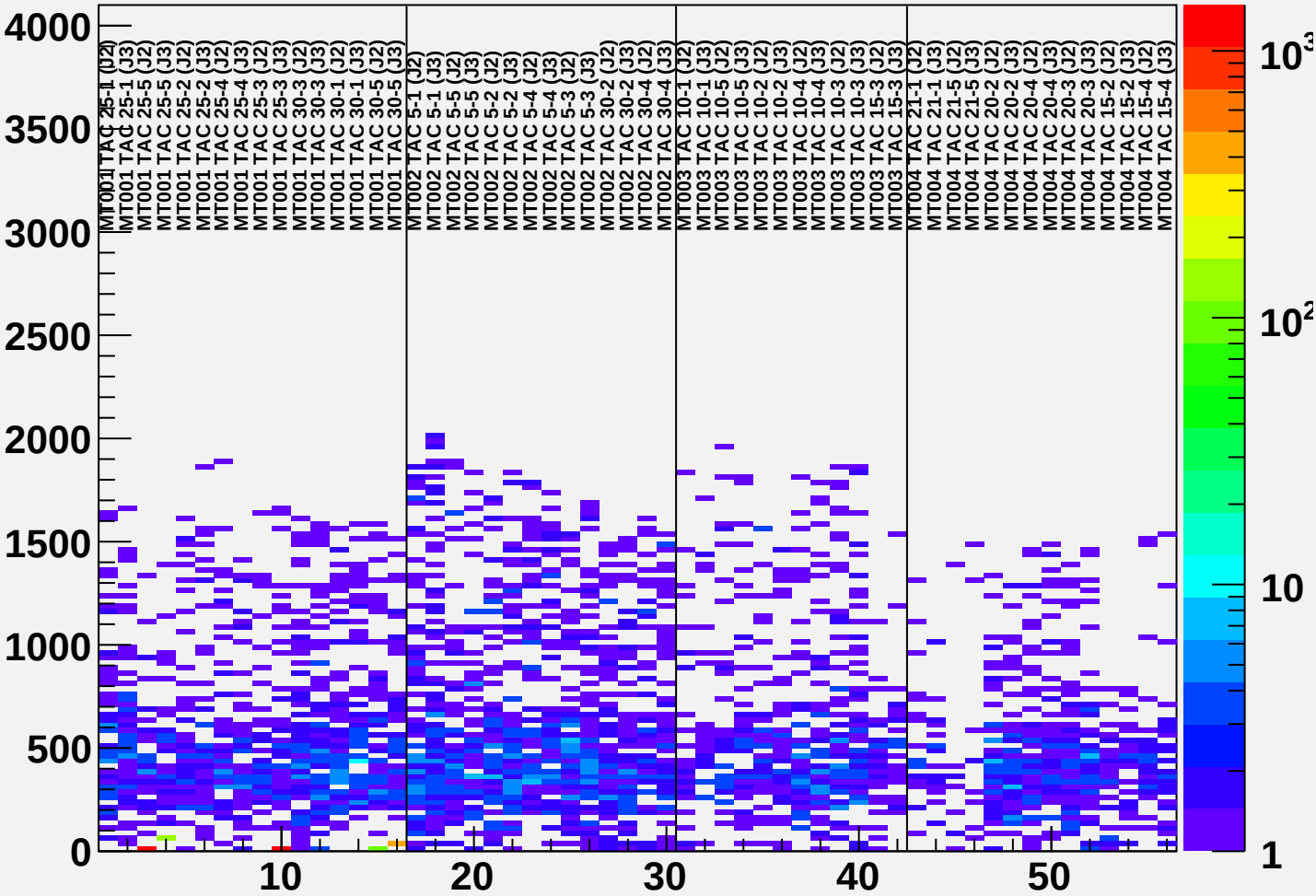
MTD strips vs BL

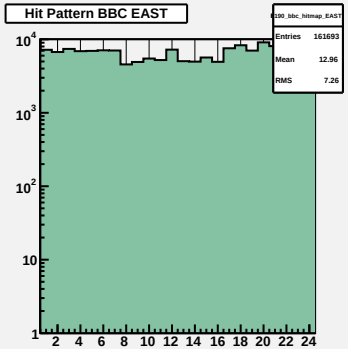


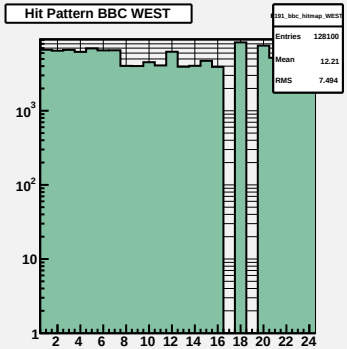
MTD_Trig2D_adc

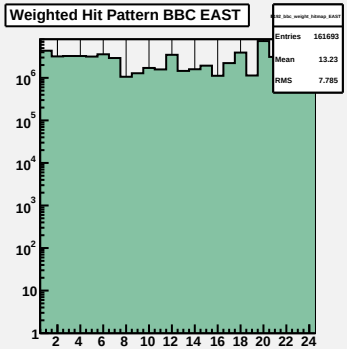


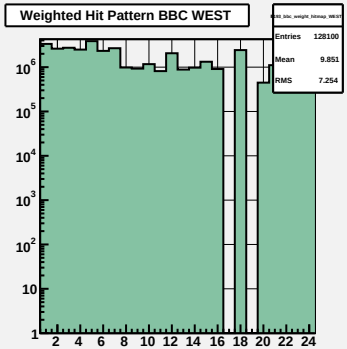
MTD_Trig2D_tac

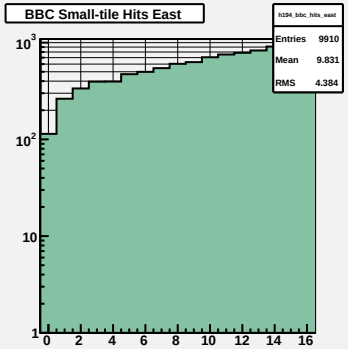


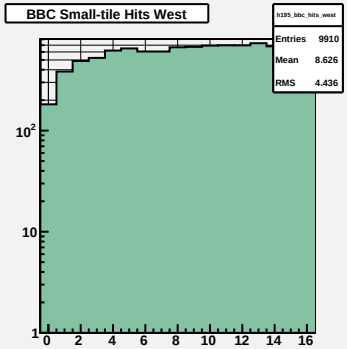

Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 161693
Mean 12.96
RMS 7.26

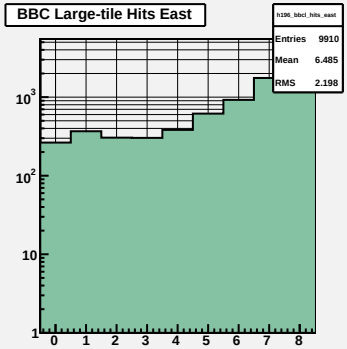

Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 128100
Mean 12.21
RMS 7.494

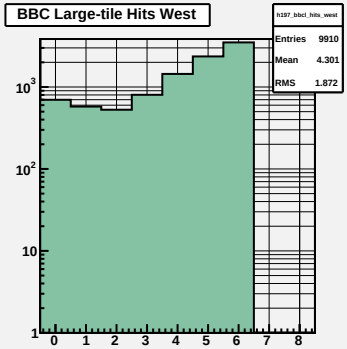

Weighted Hit Pattern BBC EAST
h192_bbc_weight_hitmap_EAST
Entries 161693
Mean 13.23
RMS 7.785

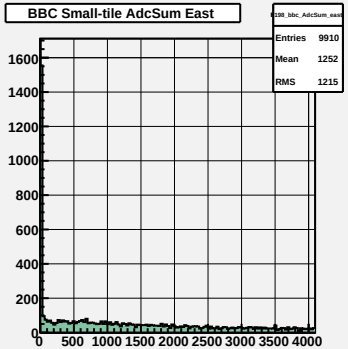

Weighted Hit Pattern BBC WEST
h193_bbc_weight_hitmap_WEST
Entries 128100
Mean 9.851
RMS 7.254

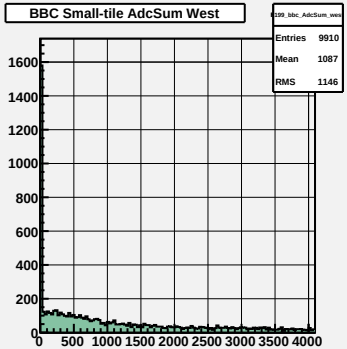

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 9910
Mean 9.831
RMS 4.384

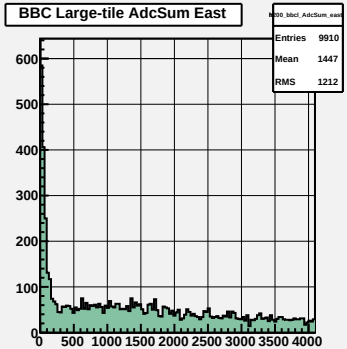

BBC Small-tile Hits West
h195_bbc_hits_west
Entries 9910
Mean 8.626
RMS 4.436

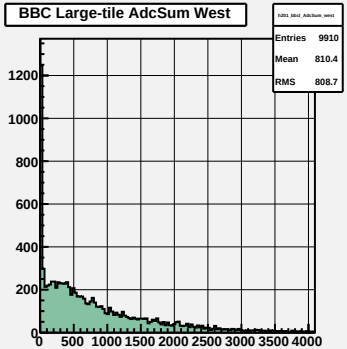

BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 9910
Mean 6.485
RMS 2.198

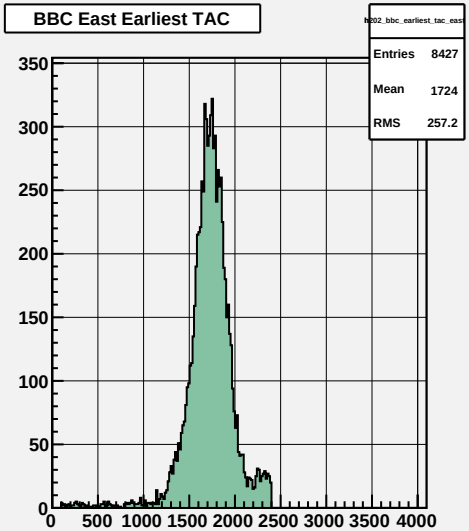

BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 9910
Mean 4.301
RMS 1.872

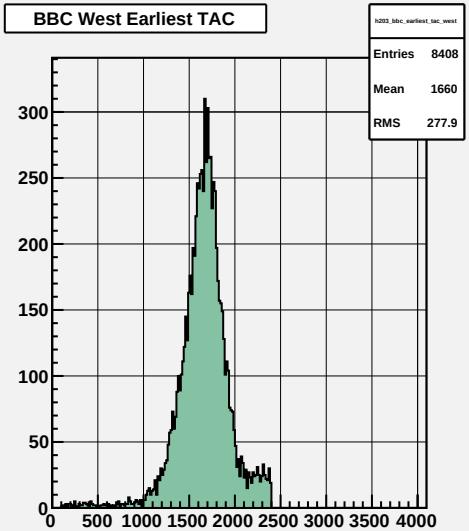

BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 9910
Mean 1252
RMS 1215

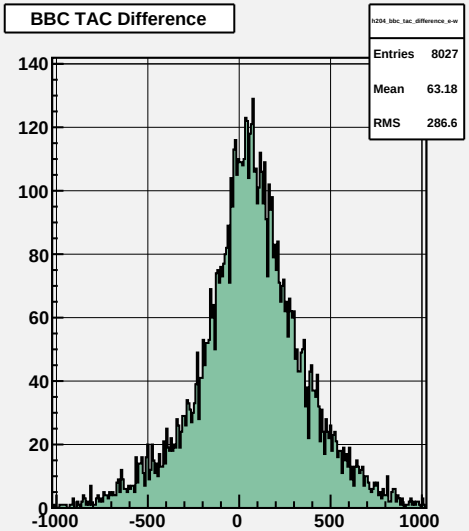

BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 9910
Mean 1087
RMS 1146

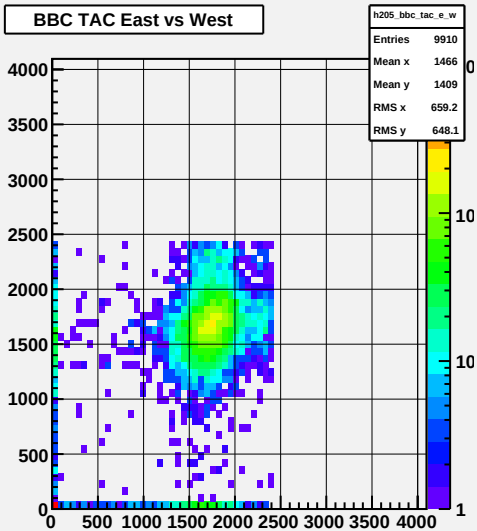

BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 9910
Mean 1447
RMS 1212

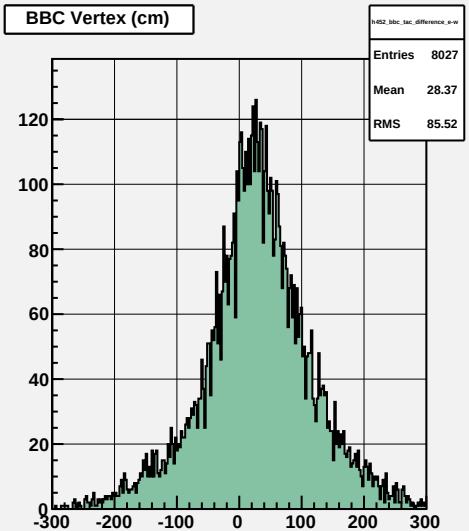

BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 9910
Mean 810.4
RMS 808.7

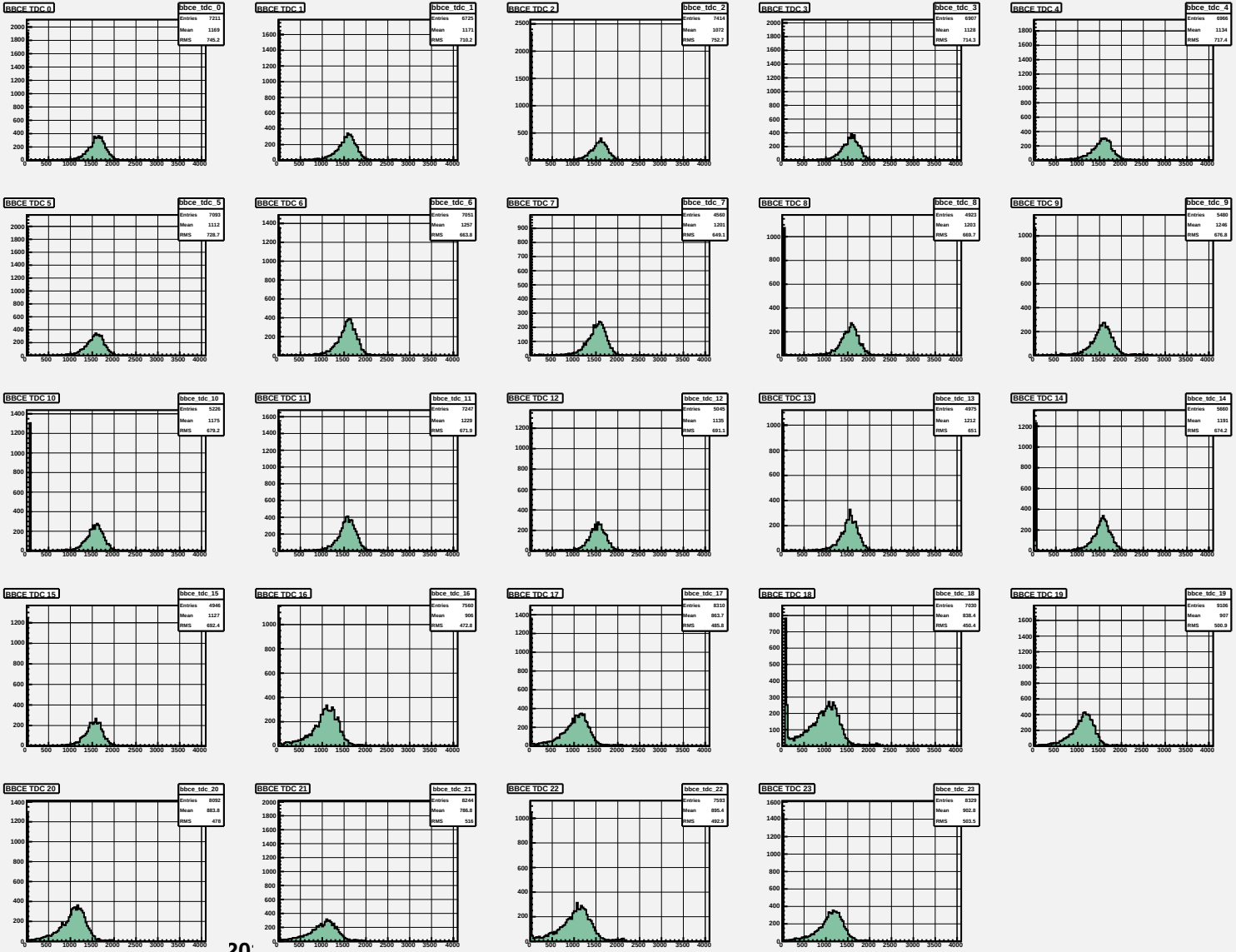

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 8427
Mean 1724
RMS 257.2

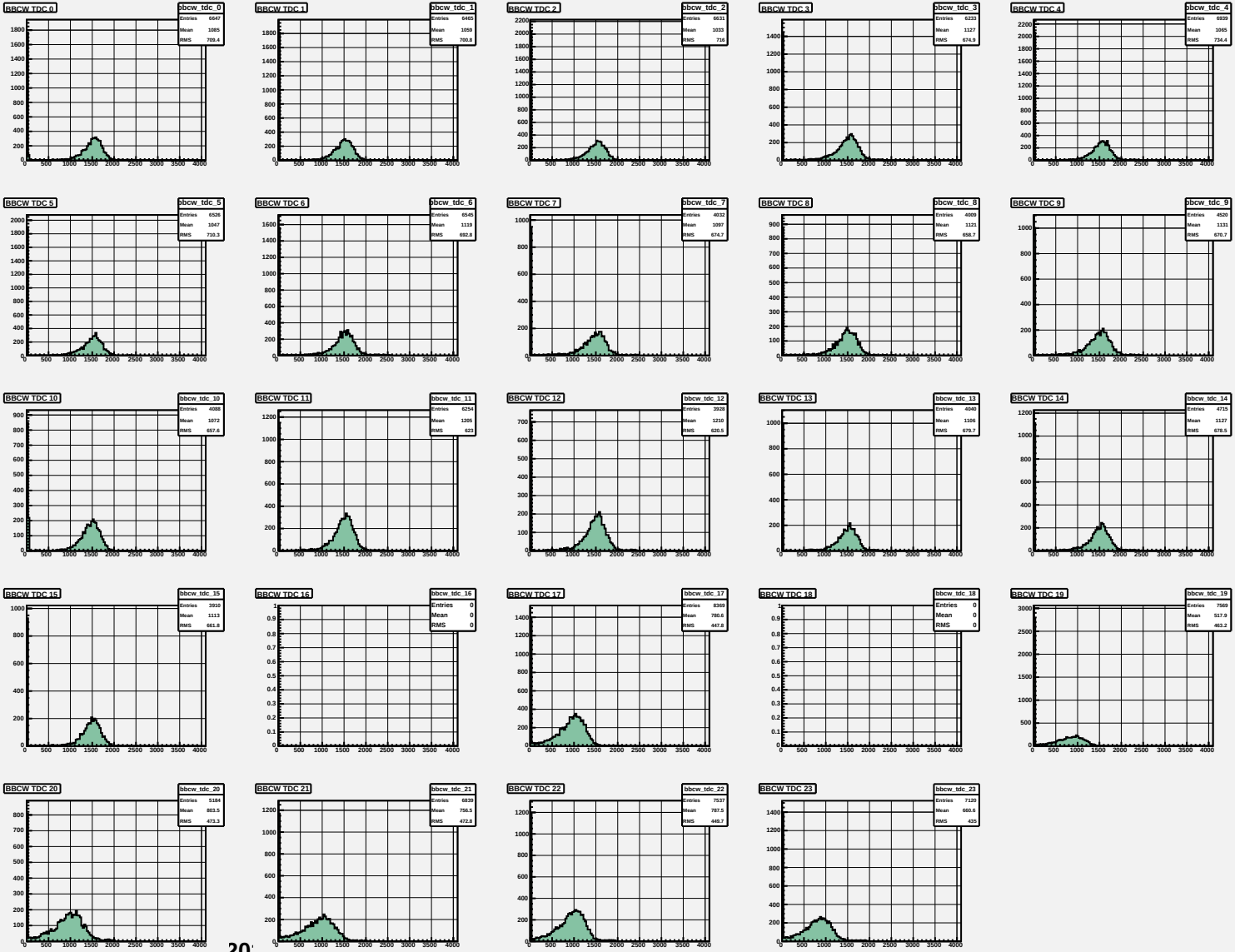

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 8408
Mean 1660
RMS 277.9

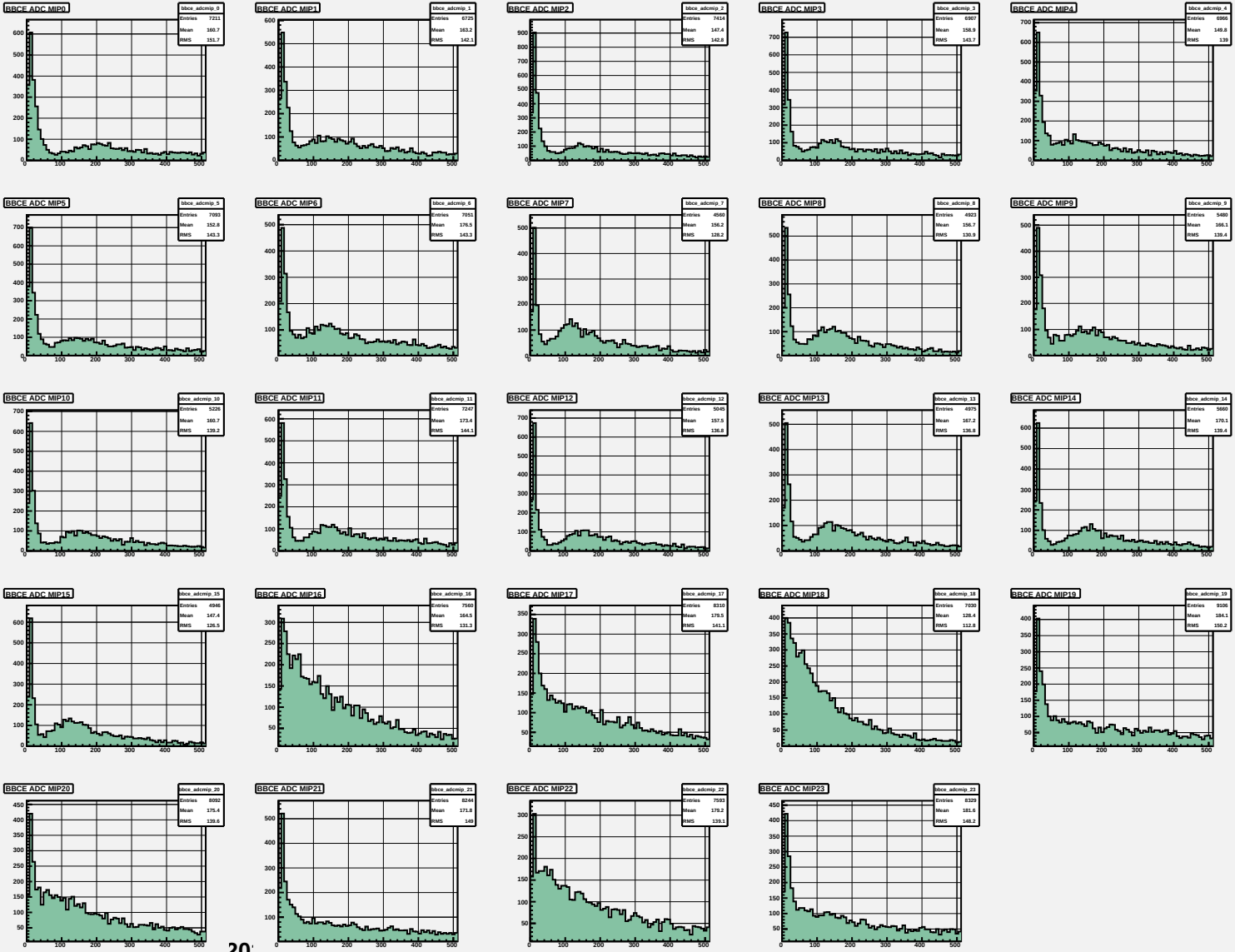

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 8027
Mean 63.18
RMS 286.6

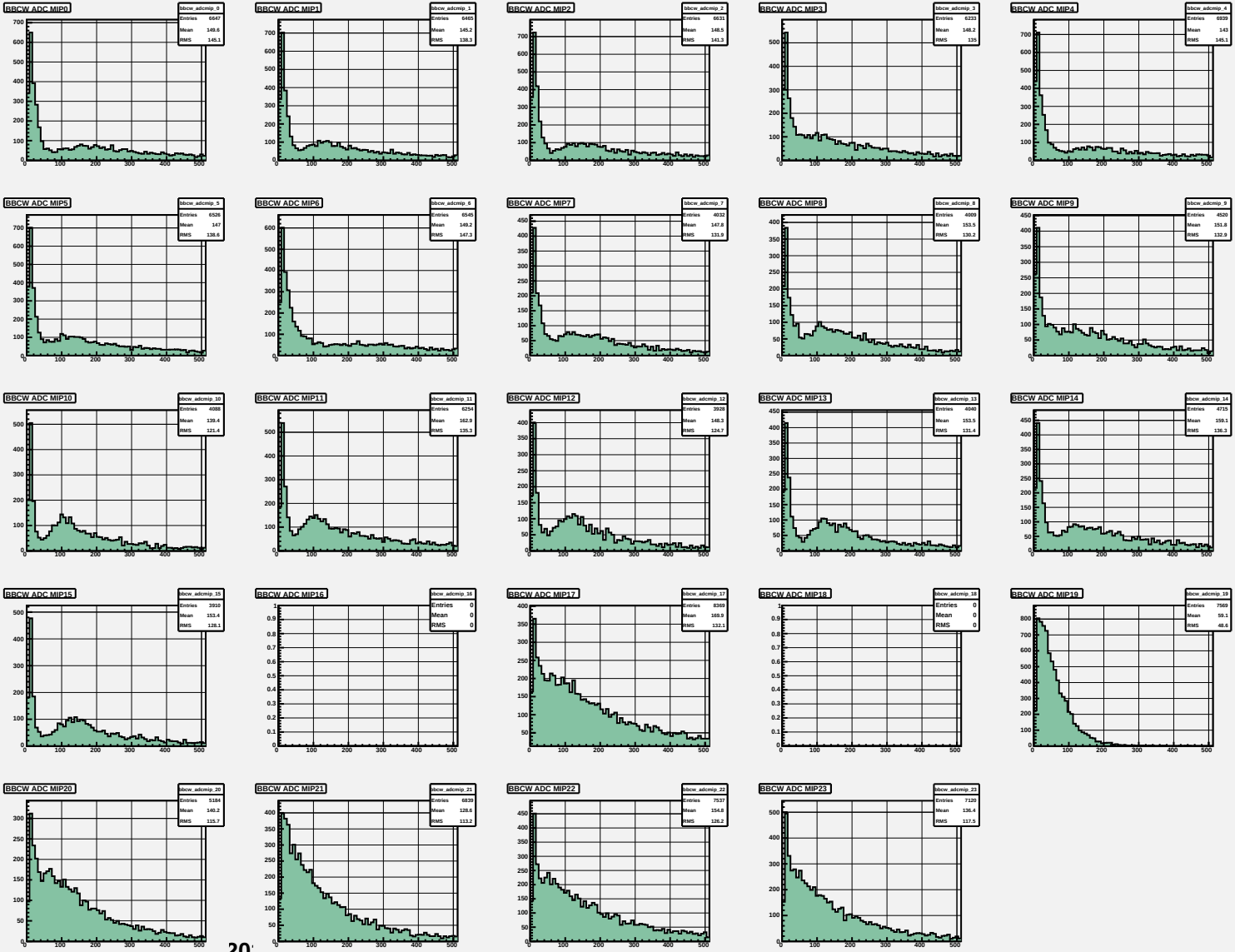

BBC TAC East vs West
h205_bbc_tac_e_w
Entries 9910
Mean x 1466
Mean y 1409
RMS x 659.2
RMS y 648.1

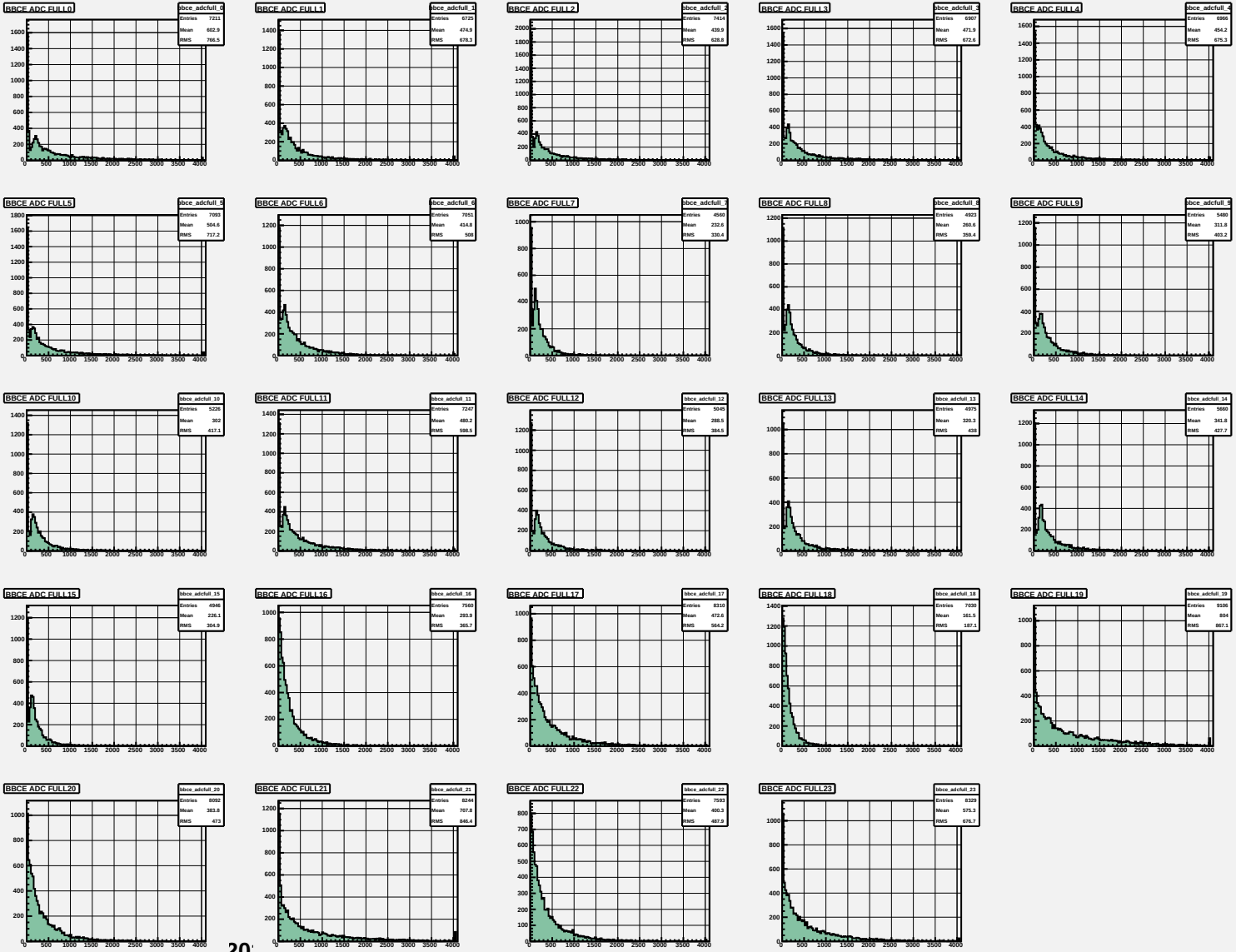

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 8027
Mean 28.37
RMS 85.52


BBCE TDC 0
bbce_tdc_0
Entries 7211
Mean 1169
RMS 745.2
BBCE TDC 1
bbce_tdc_1
Entries 6725
Mean 1171
RMS 710.2
BBCE TDC 2
bbce_tdc_2
Entries 7414
Mean 1072
RMS 752.7
BBCE TDC 3
bbce_tdc_3
Entries 6907
Mean 1128
RMS 714.3
BBCE TDC 4
bbce_tdc_4
Entries 6966
Mean 1134
RMS 717.4
BBCE TDC 5
bbce_tdc_5
Entries 7093
Mean 1112
RMS 728.7
BBCE TDC 6
bbce_tdc_6
Entries 7051
Mean 1257
RMS 663.8
BBCE TDC 7
bbce_tdc_7
Entries 4560
Mean 1201
RMS 649.1
BBCE TDC 8
bbce_tdc_8
Entries 4923
Mean 1263
RMS 669.7
BBCE TDC 9
bbce_tdc_9
Entries 5480
Mean 1246
RMS 676.8
BBCE TDC 10
bbce_tdc_10
Entries 5226
Mean 1175
RMS 679.2
BBCE TDC 11
bbce_tdc_11
Entries 7247
Mean 1229
RMS 671.9
BBCE TDC 12
bbce_tdc_12
Entries 5045
Mean 1135
RMS 691.1
BBCE TDC 13
bbce_tdc_13
Entries 4975
Mean 1212
RMS 651
BBCE TDC 14
bbce_tdc_14
Entries 5660
Mean 1191
RMS 674.2
BBCE TDC 15
bbce_tdc_15
Entries 4946
Mean 1127
RMS 692.4
BBCE TDC 16
bbce_tdc_16
Entries 7560
Mean 906
RMS 472.8
BBCE TDC 17
bbce_tdc_17
Entries 8310
Mean 863.7
RMS 485.8
BBCE TDC 18
bbce_tdc_18
Entries 7039
Mean 838.4
RMS 456.4
BBCE TDC 19
bbce_tdc_19
Entries 9106
Mean 907
RMS 500.9
BBCE TDC 20
bbce_tdc_20
Entries 8092
Mean 883.8
RMS 478
BBCE TDC 21
bbce_tdc_21
Entries 8244
Mean 786.8
RMS 516
BBCE TDC 22
bbce_tdc_22
Entries 7593
Mean 895.4
RMS 492.9
BBCE TDC 23
bbce_tdc_23
Entries 8329
Mean 902.8
RMS 503.5


BBCW TDC 0
bbcw_tdc_0
Entries 6647
Mean 1085
RMS 709.4
BBCW TDC 1
bbcw_tdc_1
Entries 6465
Mean 1059
RMS 700.8
BBCW TDC 2
bbcw_tdc_2
Entries 6631
Mean 1033
RMS 716
BBCW TDC 3
bbcw_tdc_3
Entries 6233
Mean 1127
RMS 674.9
BBCW TDC 4
bbcw_tdc_4
Entries 6939
Mean 1065
RMS 734.4
BBCW TDC 5
bbcw_tdc_5
Entries 6526
Mean 1047
RMS 710.3
BBCW TDC 6
bbcw_tdc_6
Entries 6545
Mean 1119
RMS 692.8
BBCW TDC 7
bbcw_tdc_7
Entries 4032
Mean 1097
RMS 674.7
BBCW TDC 8
bbcw_tdc_8
Entries 4009
Mean 1121
RMS 658.7
BBCW TDC 9
bbcw_tdc_9
Entries 4529
Mean 1131
RMS 670.7
BBCW TDC 10
bbcw_tdc_10
Entries 4088
Mean 1072
RMS 657.6
BBCW TDC 11
bbcw_tdc_11
Entries 6254
Mean 1265
RMS 623
BBCW TDC 12
bbcw_tdc_12
Entries 3928
Mean 1210
RMS 620.5
BBCW TDC 13
bbcw_tdc_13
Entries 4040
Mean 1106
RMS 679.7
BBCW TDC 14
bbcw_tdc_14
Entries 4715
Mean 1127
RMS 678.5
BBCW TDC 15
bbcw_tdc_15
Entries 3910
Mean 1113
RMS 661.8
BBCW TDC 16
bbcw_tdc_16
Entries 0
Mean 0
RMS 0
BBCW TDC 17
bbcw_tdc_17
Entries 8369
Mean 780.6
RMS 447.8
BBCW TDC 18
bbcw_tdc_18
Entries 0
Mean 0
RMS 0
BBCW TDC 19
bbcw_tdc_19
Entries 7569
Mean 517.9
RMS 463.2
BBCW TDC 20
bbcw_tdc_20
Entries 5184
Mean 803.5
RMS 473.1
BBCW TDC 21
bbcw_tdc_21
Entries 6839
Mean 756.5
RMS 472.8
BBCW TDC 22
bbcw_tdc_22
Entries 7537
Mean 787.5
RMS 449.7
BBCW TDC 23
bbcw_tdc_23
Entries 7120
Mean 660.6
RMS 435


BBCE ADC MIP0
bbce_adcmip_0
Entries 7211
Mean 160.7
RMS 151.7
BBCE ADC MIP1
bbce_adcmip_1
Entries 6725
Mean 163.2
RMS 142.1
BBCE ADC MIP2
bbce_adcmip_2
Entries 7414
Mean 147.4
RMS 142.8
BBCE ADC MIP3
bbce_adcmip_3
Entries 6907
Mean 158.9
RMS 143.7
BBCE ADC MIP4
bbce_adcmip_4
Entries 6966
Mean 149.8
RMS 139
BBCE ADC MIP5
bbce_adcmip_5
Entries 7093
Mean 152.8
RMS 143.3
BBCE ADC MIP6
bbce_adcmip_6
Entries 7051
Mean 176.5
RMS 143.3
BBCE ADC MIP7
bbce_adcmip_7
Entries 4560
Mean 156.2
RMS 128.2
BBCE ADC MIP8
bbce_adcmip_8
Entries 4923
Mean 156.7
RMS 130.9
BBCE ADC MIP9
bbce_adcmip_9
Entries 5460
Mean 166.1
RMS 139.4
BBCE ADC MIP10
bbce_adcmip_10
Entries 5226
Mean 160.7
RMS 139.2
BBCE ADC MIP11
bbce_adcmip_11
Entries 7247
Mean 173.6
RMS 144.1
BBCE ADC MIP12
bbce_adcmip_12
Entries 5045
Mean 157.5
RMS 136.8
BBCE ADC MIP13
bbce_adcmip_13
Entries 4975
Mean 167.2
RMS 136.8
BBCE ADC MIP14
bbce_adcmip_14
Entries 5660
Mean 170.1
RMS 139.4
BBCE ADC MIP15
bbce_adcmip_15
Entries 4946
Mean 147.4
RMS 126.5
BBCE ADC MIP16
bbce_adcmip_16
Entries 7560
Mean 164.5
RMS 131.3
BBCE ADC MIP17
bbce_adcmip_17
Entries 8310
Mean 179.5
RMS 141.1
BBCE ADC MIP18
bbce_adcmip_18
Entries 7030
Mean 128.4
RMS 112.8
BBCE ADC MIP19
bbce_adcmip_19
Entries 9106
Mean 184.1
RMS 150.2
BBCE ADC MIP20
bbce_adcmip_20
Entries 8092
Mean 175.4
RMS 139.6
BBCE ADC MIP21
bbce_adcmip_21
Entries 8244
Mean 171.8
RMS 149
BBCE ADC MIP22
bbce_adcmip_22
Entries 7593
Mean 179.2
RMS 139.1
BBCE ADC MIP23
bbce_adcmip_23
Entries 8329
Mean 181.6
RMS 148.2


BBCW ADC MIP0
bbcw_adcmip_0
Entries 6647
Mean 149.6
RMS 145.1
BBCW ADC MIP1
bbcw_adcmip_1
Entries 6465
Mean 145.2
RMS 138.3
BBCW ADC MIP2
bbcw_adcmip_2
Entries 6631
Mean 148.5
RMS 141.3
BBCW ADC MIP3
bbcw_adcmip_3
Entries 6233
Mean 148.2
RMS 135
BBCW ADC MIP4
bbcw_adcmip_4
Entries 6939
Mean 143
RMS 145.1
BBCW ADC MIP5
bbcw_adcmip_5
Entries 6526
Mean 147
RMS 138.6
BBCW ADC MIP6
bbcw_adcmip_6
Entries 6545
Mean 149.2
RMS 147.3
BBCW ADC MIP7
bbcw_adcmip_7
Entries 4032
Mean 147.8
RMS 131.9
BBCW ADC MIP8
bbcw_adcmip_8
Entries 4009
Mean 153.5
RMS 130.2
BBCW ADC MIP9
bbcw_adcmip_9
Entries 4520
Mean 151.6
RMS 132.9
BBCW ADC MIP10
bbcw_adcmip_10
Entries 4088
Mean 139.4
RMS 121.4
BBCW ADC MIP11
bbcw_adcmip_11
Entries 6254
Mean 162.9
RMS 135.3
BBCW ADC MIP12
bbcw_adcmip_12
Entries 3928
Mean 148.3
RMS 124.7
BBCW ADC MIP13
bbcw_adcmip_13
Entries 4040
Mean 153.5
RMS 131.4
BBCW ADC MIP14
bbcw_adcmip_14
Entries 4715
Mean 159.1
RMS 136.3
BBCW ADC MIP15
bbcw_adcmip_15
Entries 3910
Mean 153.4
RMS 128.1
BBCW ADC MIP16
bbcw_adcmip_16
Entries 0
Mean 0
RMS 0
BBCW ADC MIP17
bbcw_adcmip_17
Entries 8369
Mean 169.9
RMS 132.1
BBCW ADC MIP18
bbcw_adcmip_18
Entries 0
Mean 0
RMS 0
BBCW ADC MIP19
bbcw_adcmip_19
Entries 7569
Mean 59.1
RMS 48.6
BBCW ADC MIP20
bbcw_adcmip_20
Entries 5184
Mean 140.2
RMS 115.7
BBCW ADC MIP21
bbcw_adcmip_21
Entries 6839
Mean 128.6
RMS 113.2
BBCW ADC MIP22
bbcw_adcmip_22
Entries 7537
Mean 154.8
RMS 126.2
BBCW ADC MIP23
bbcw_adcmip_23
Entries 7120
Mean 136.4
RMS 117.5


BBCE ADC FULL0
bbce_adcfull_0
Entries 7211
Mean 602.9
RMS 766.5
BBCE ADC FULL1
bbce_adcfull_1
Entries 6725
Mean 474.8
RMS 678.3
BBCE ADC FULL2
bbce_adcfull_2
Entries 7414
Mean 439.9
RMS 628.8
BBCE ADC FULL3
bbce_adcfull_3
Entries 6907
Mean 471.9
RMS 672.6
BBCE ADC FULL4
bbce_adcfull_4
Entries 6966
Mean 454.2
RMS 675.2
BBCE ADC FULL5
bbce_adcfull_5
Entries 7093
Mean 504.6
RMS 717.2
BBCE ADC FULL6
bbce_adcfull_6
Entries 7051
Mean 414.8
RMS 508
BBCE ADC FULL7
bbce_adcfull_7
Entries 4560
Mean 232.4
RMS 330.4
BBCE ADC FULL8
bbce_adcfull_8
Entries 4923
Mean 260.6
RMS 359.4
BBCE ADC FULL9
bbce_adcfull_9
Entries 5480
Mean 311.4
RMS 403.2
BBCE ADC FULL10
bbce_adcfull_10
Entries 5226
Mean 302
RMS 417.1
BBCE ADC FULL11
bbce_adcfull_11
Entries 7247
Mean 480.2
RMS 598.5
BBCE ADC FULL12
bbce_adcfull_12
Entries 5045
Mean 288.5
RMS 384.5
BBCE ADC FULL13
bbce_adcfull_13
Entries 4975
Mean 320.3
RMS 438
BBCE ADC FULL14
bbce_adcfull_14
Entries 5660
Mean 341.8
RMS 427.7
BBCE ADC FULL15
bbce_adcfull_15
Entries 4946
Mean 226.1
RMS 304.9
BBCE ADC FULL16
bbce_adcfull_16
Entries 7560
Mean 293.9
RMS 365.7
BBCE ADC FULL17
bbce_adcfull_17
Entries 8310
Mean 472.6
RMS 564.2
BBCE ADC FULL18
bbce_adcfull_18
Entries 7030
Mean 161.5
RMS 187.1
BBCE ADC FULL19
bbce_adcfull_19
Entries 9106
Mean 804
RMS 867.1
BBCE ADC FULL20
bbce_adcfull_20
Entries 8092
Mean 383.8
RMS 473
BBCE ADC FULL21
bbce_adcfull_21
Entries 8244
Mean 707.8
RMS 846.4
BBCE ADC FULL22
bbce_adcfull_22
Entries 7593
Mean 400.3
RMS 487.9
BBCE ADC FULL23
bbce_adcfull_23
Entries 8329
Mean 575.3
RMS 676.7

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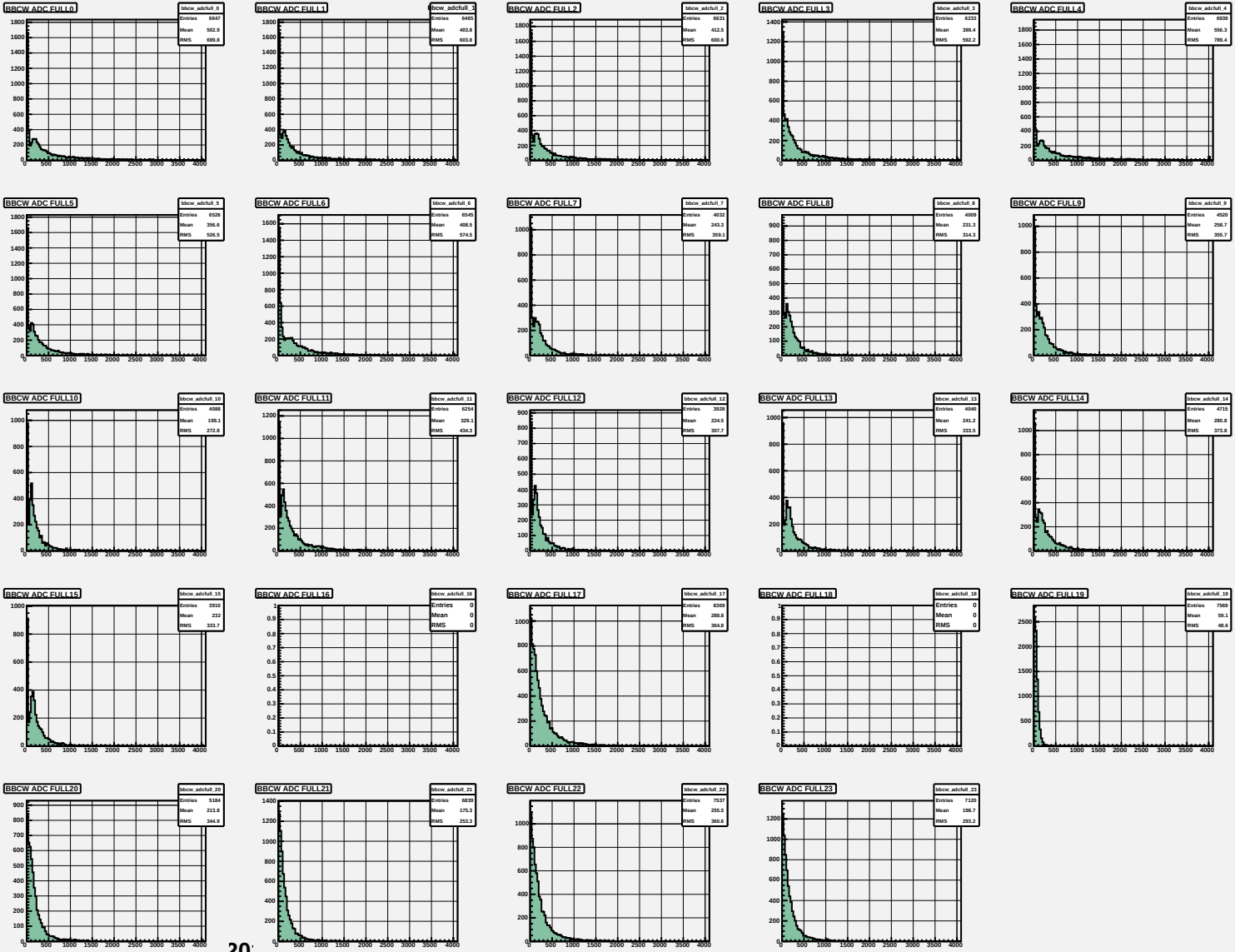
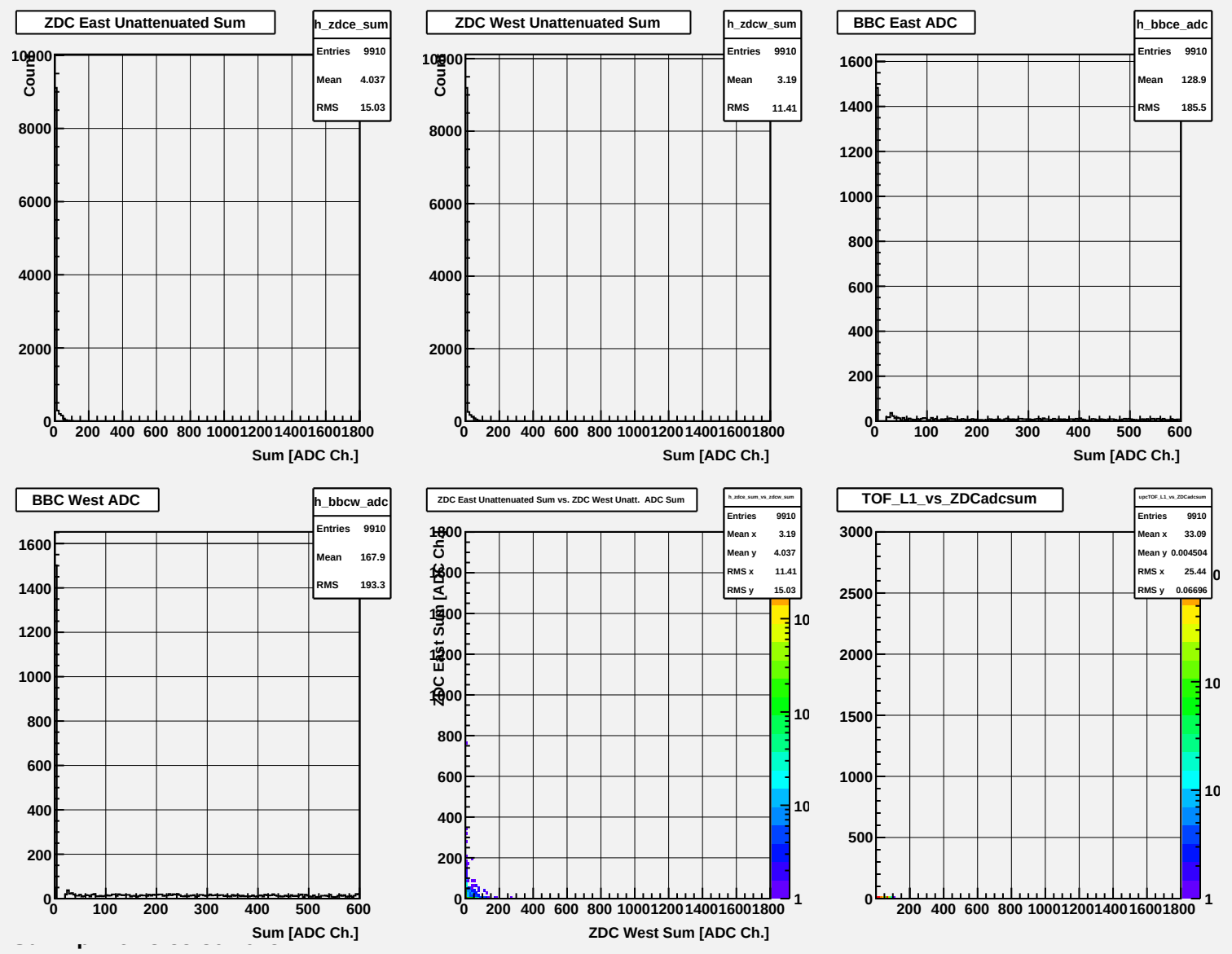
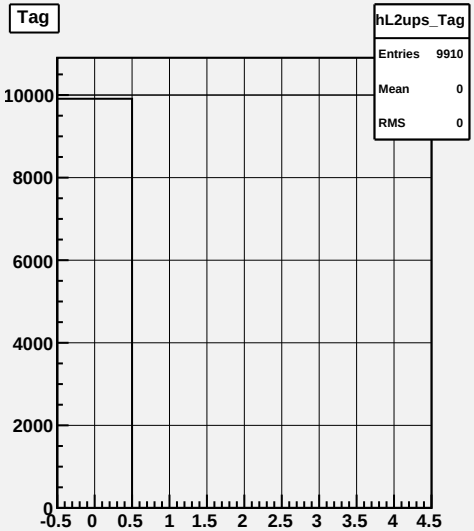
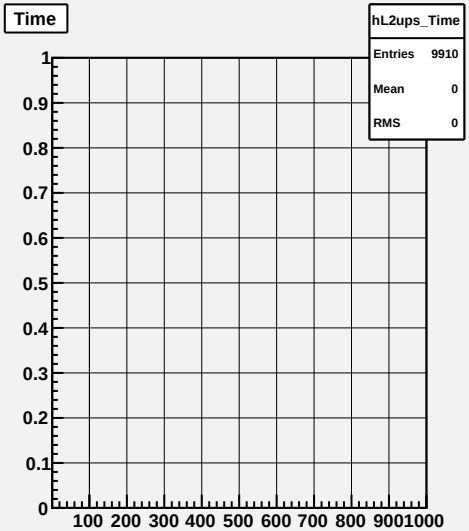
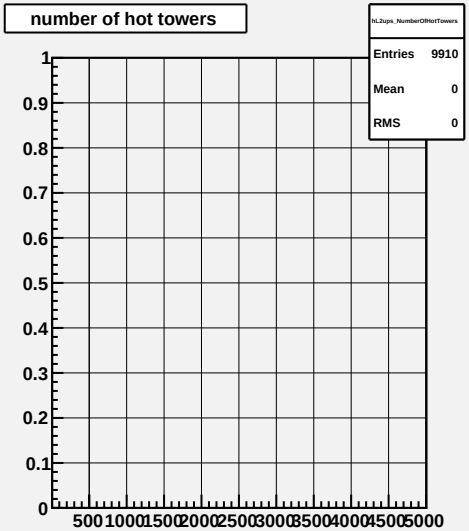
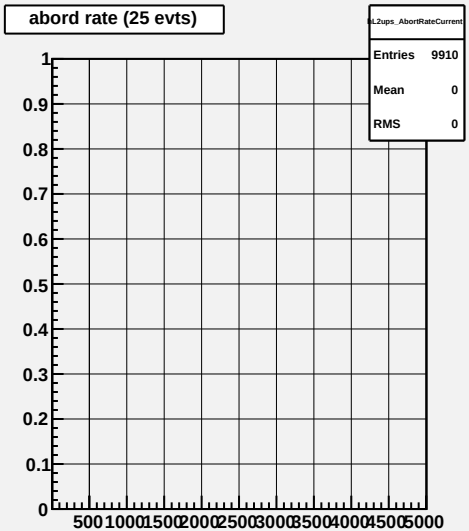

BBCW ADC FULL0
bbcw_adcfull_0
Entries 6647
Mean 502.9
RMS 699.8
BBCW ADC FULL1
bbcw_adcfull_1
Entries 6465
Mean 403.8
RMS 603.8
BBCW ADC FULL2
bbcw_adcfull_2
Entries 6631
Mean 412.5
RMS 600.6
BBCW ADC FULL3
bbcw_adcfull_3
Entries 6233
Mean 399.4
RMS 592.2
BBCW ADC FULL4
bbcw_adcfull_4
Entries 6939
Mean 556.3
RMS 789.4
BBCW ADC FULL5
bbcw_adcfull_5
Entries 6526
Mean 356.6
RMS 526.5
BBCW ADC FULL6
bbcw_adcfull_6
Entries 6545
Mean 408.5
RMS 574.5
BBCW ADC FULL7
bbcw_adcfull_7
Entries 4032
Mean 243.3
RMS 359.1
BBCW ADC FULL8
bbcw_adcfull_8
Entries 4009
Mean 231.5
RMS 314.3
BBCW ADC FULL9
bbcw_adcfull_9
Entries 4520
Mean 258.7
RMS 355.7
BBCW ADC FULL10
bbcw_adcfull_10
Entries 4088
Mean 199.1
RMS 272.8
BBCW ADC FULL11
bbcw_adcfull_11
Entries 6254
Mean 329.1
RMS 434.3
BBCW ADC FULL12
bbcw_adcfull_12
Entries 3928
Mean 224.5
RMS 307.7
BBCW ADC FULL13
bbcw_adcfull_13
Entries 4040
Mean 241.2
RMS 333.5
BBCW ADC FULL14
bbcw_adcfull_14
Entries 4715
Mean 280.8
RMS 373.8
BBCW ADC FULL15
bbcw_adcfull_15
Entries 3910
Mean 232
RMS 333.7
BBCW ADC FULL16
bbcw_adcfull_16
Entries 0
Mean 0
RMS 0
BBCW ADC FULL17
bbcw_adcfull_17
Entries 8369
Mean 289.8
RMS 364.8
BBCW ADC FULL18
bbcw_adcfull_18
Entries 0
Mean 0
RMS 0
BBCW ADC FULL19
bbcw_adcfull_19
Entries 7569
Mean 59.1
RMS 48.6
BBCW ADC FULL20
bbcw_adcfull_20
Entries 5184
Mean 213.8
RMS 344.9
BBCW ADC FULL21
bbcw_adcfull_21
Entries 6839
Mean 175.3
RMS 253.3
BBCW ADC FULL22
bbcw_adcfull_22
Entries 7537
Mean 255.5
RMS 360.6
BBCW ADC FULL23
bbcw_adcfull_23
Entries 7120
Mean 198.7
RMS 293.2

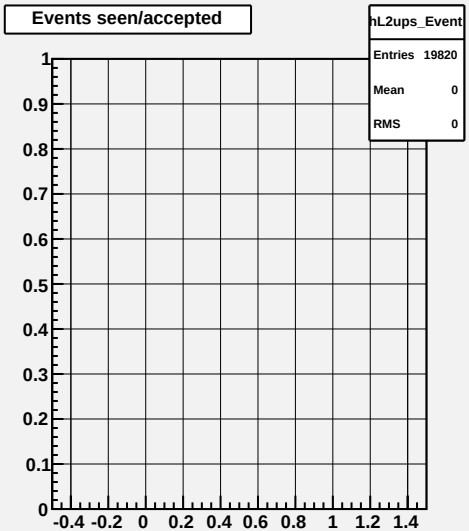

ZDC East Unattenuated Sum
h_zdce_sum
Entries 9910
Mean 4.037
RMS 15.03
Count
Sum [ADC Ch.]
ZDC West Unattenuated Sum
h_zdcw_sum
Entries 9910
Mean 3.19
RMS 11.41
Count
Sum [ADC Ch.]
BBC East ADC
h_bbce_adc
Entries 9910
Mean 128.9
RMS 185.5
Sum [ADC Ch.]
BBC West ADC
h_bbcw_adc
Entries 9910
Mean 167.9
RMS 193.3
Sum [ADC Ch.]
ZDC East Unattenuated Sum vs. ZDC West Unatt. ADC Sum
h_zdce_sum_vs_zdcw_sum
Entries 9910
Mean x 3.19
Mean y 4.037
RMS x 11.41
RMS y 15.03
ZDC East Sum [ADC Ch.]
ZDC West Sum [ADC Ch.]
TOF_L1_vs_ZDCadcsum
upcTOF_L1_vs_ZDCadcsum
Entries 9910
Mean x 33.09
Mean y 0.004504
RMS x 25.44
RMS y 0.06696

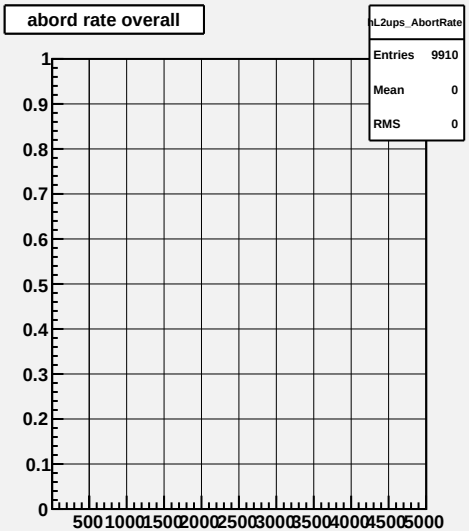

Tag
hL2ups_Tag
Entries 9910
Mean 0
RMS 0
10000
8000
6000
4000
2000
0
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5

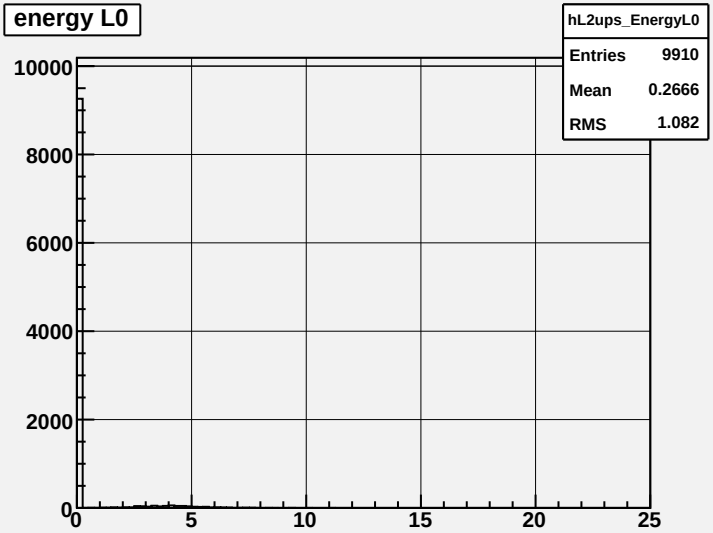

Time
hL2ups_Time
Entries 9910
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100 200 300 400 500 600 700 800 900 1000

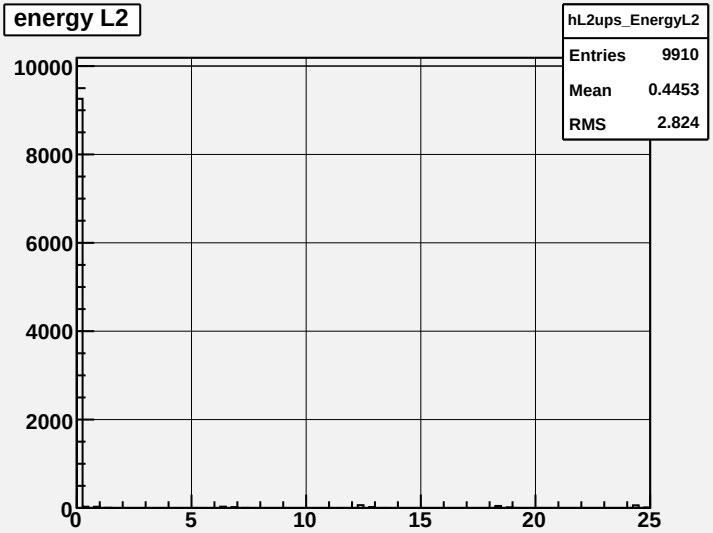

number of hot towers
hL2ups_NumberOfHotTowers
Entries 9910
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

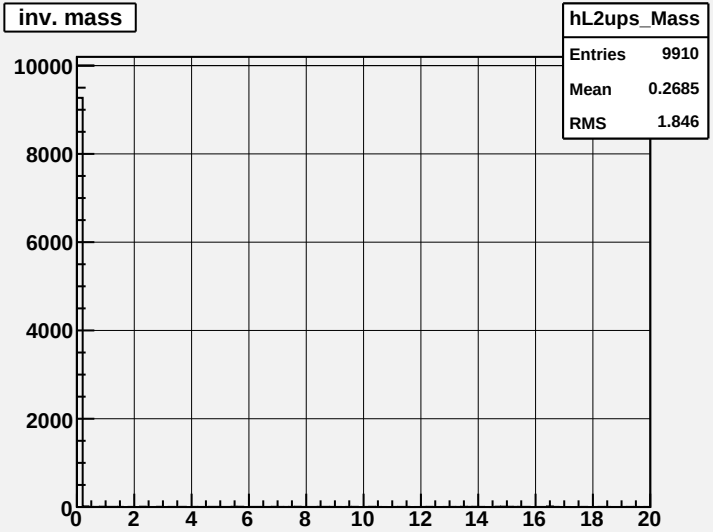

abord rate (25 evts)
hL2ups_AbortRateCurrent
Entries 9910
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

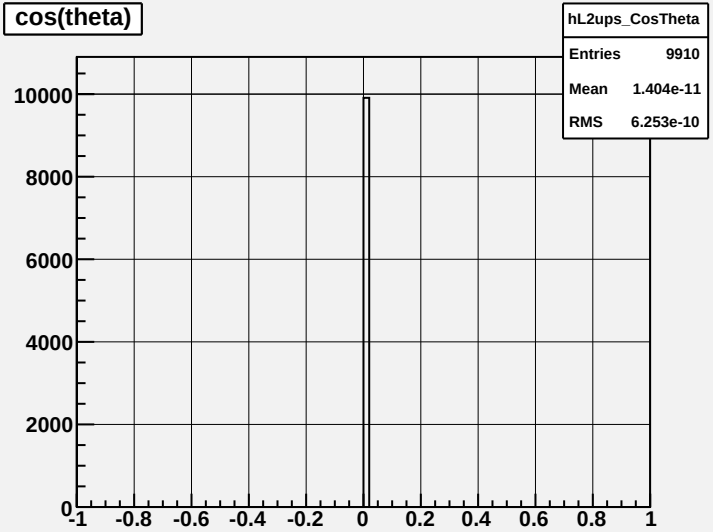

Events seen/accepted
hL2ups_Event
Entries 19820
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.4 -0.2 0 0.2 0.4 0.6 0.8 1 1.2 1.4

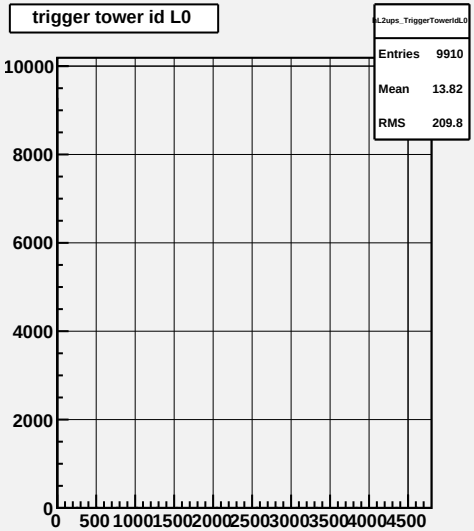

abord rate overall
hL2ups_AbortRate
Entries 9910
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

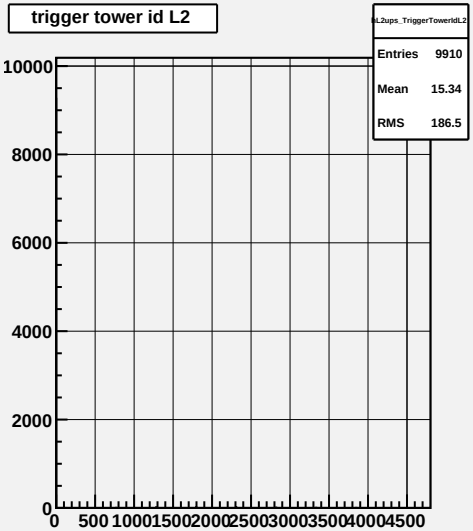

energy L0
hL2ups_EnergyL0
Entries 9910
Mean 0.2666
RMS 1.082
10000
8000
6000
4000
2000
0
0
5
10
15
20
25

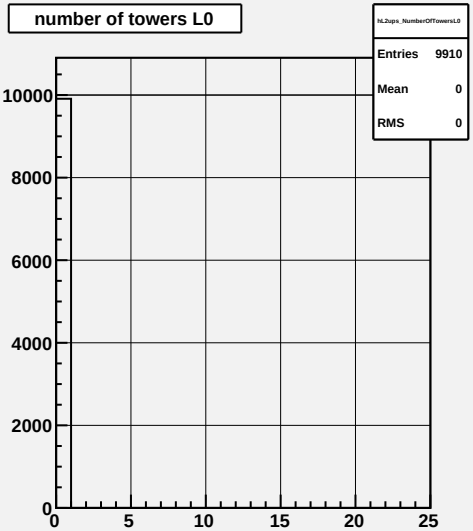

energy L2
hL2ups_EnergyL2
Entries 9910
Mean 0.4453
RMS 2.824
10000
8000
6000
4000
2000
0
0
5
10
15
20
25

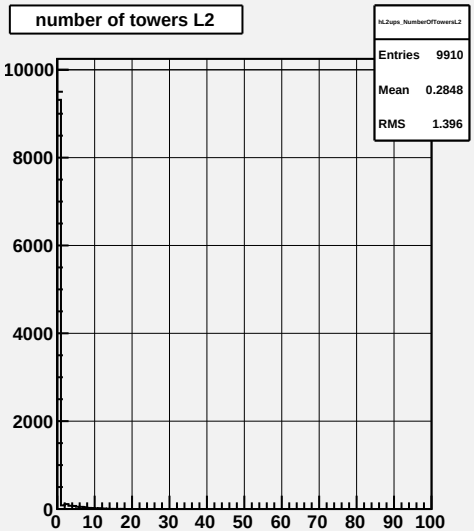

inv. mass
hL2ups_Mass
Entries 9910
Mean 0.2685
RMS 1.846
10000
8000
6000
4000
2000
0
0
2
4
6
8
10
12
14
16
18
20

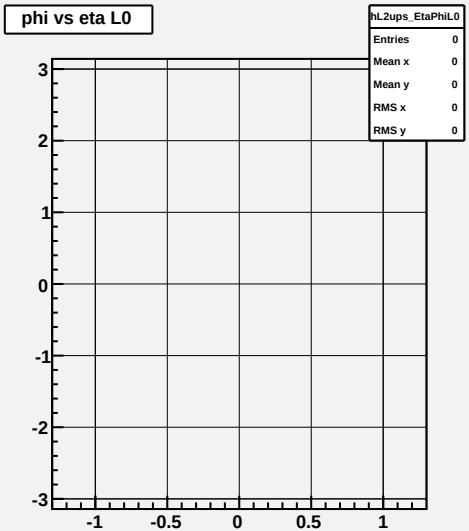

cos(theta)
hL2ups_CosTheta
Entries 9910
Mean 1.404e-11
RMS 6.253e-10
10000
8000
6000
4000
2000
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

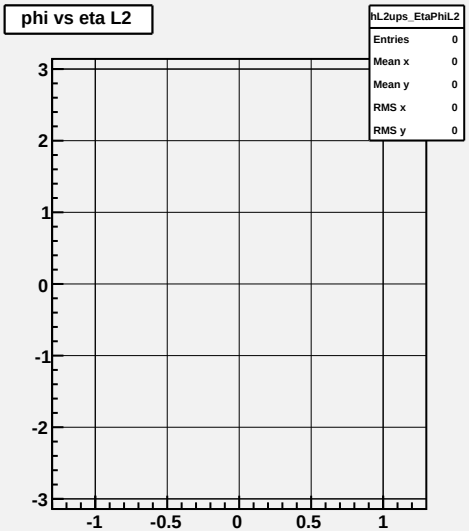

trigger tower id L0
hL2ups_TriggerTowerIdL0
Entries 9910
Mean 13.82
RMS 209.8

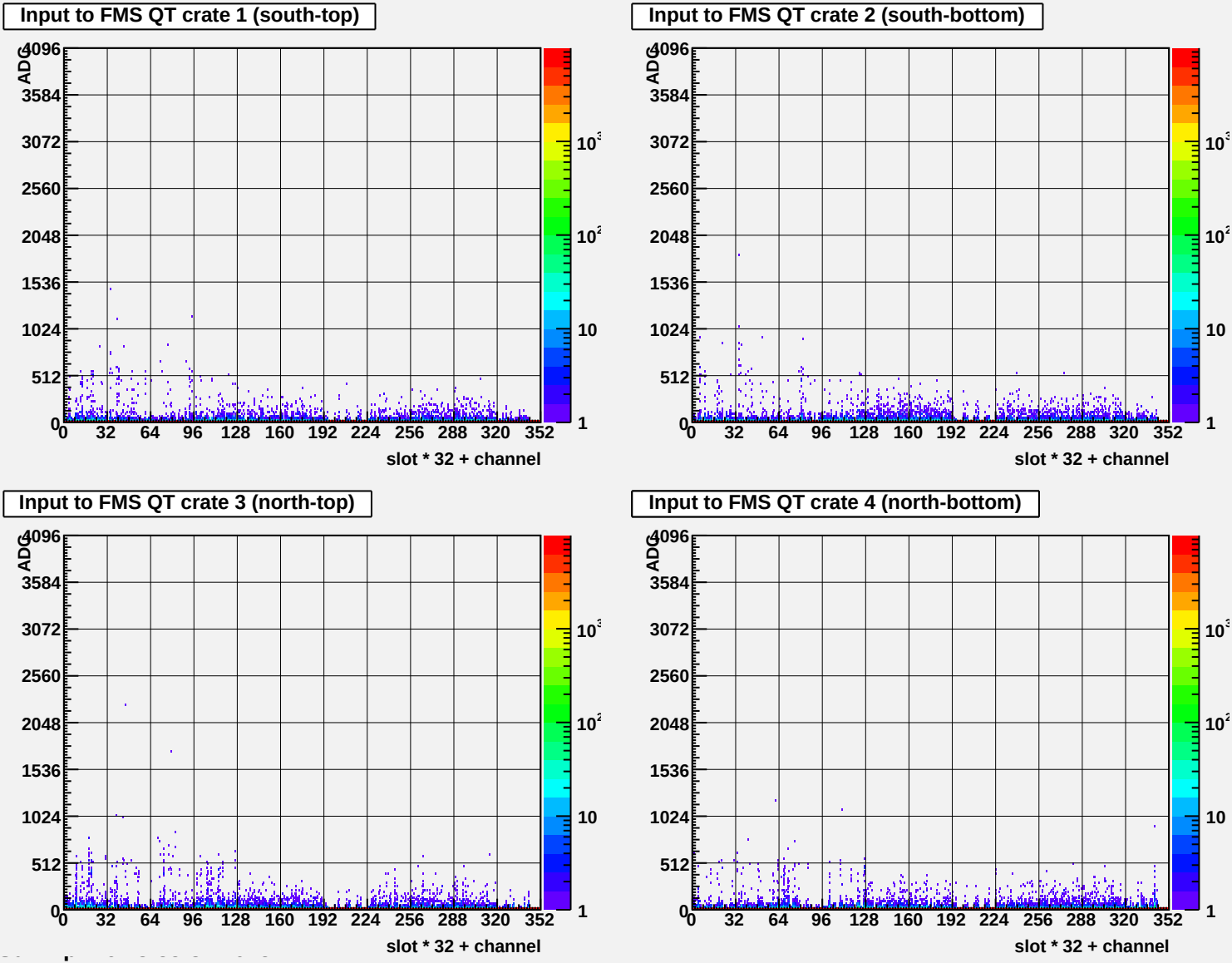

trigger tower id L2
hL2ups_TriggerTowerIdL2
Entries 9910
Mean 15.34
RMS 186.5

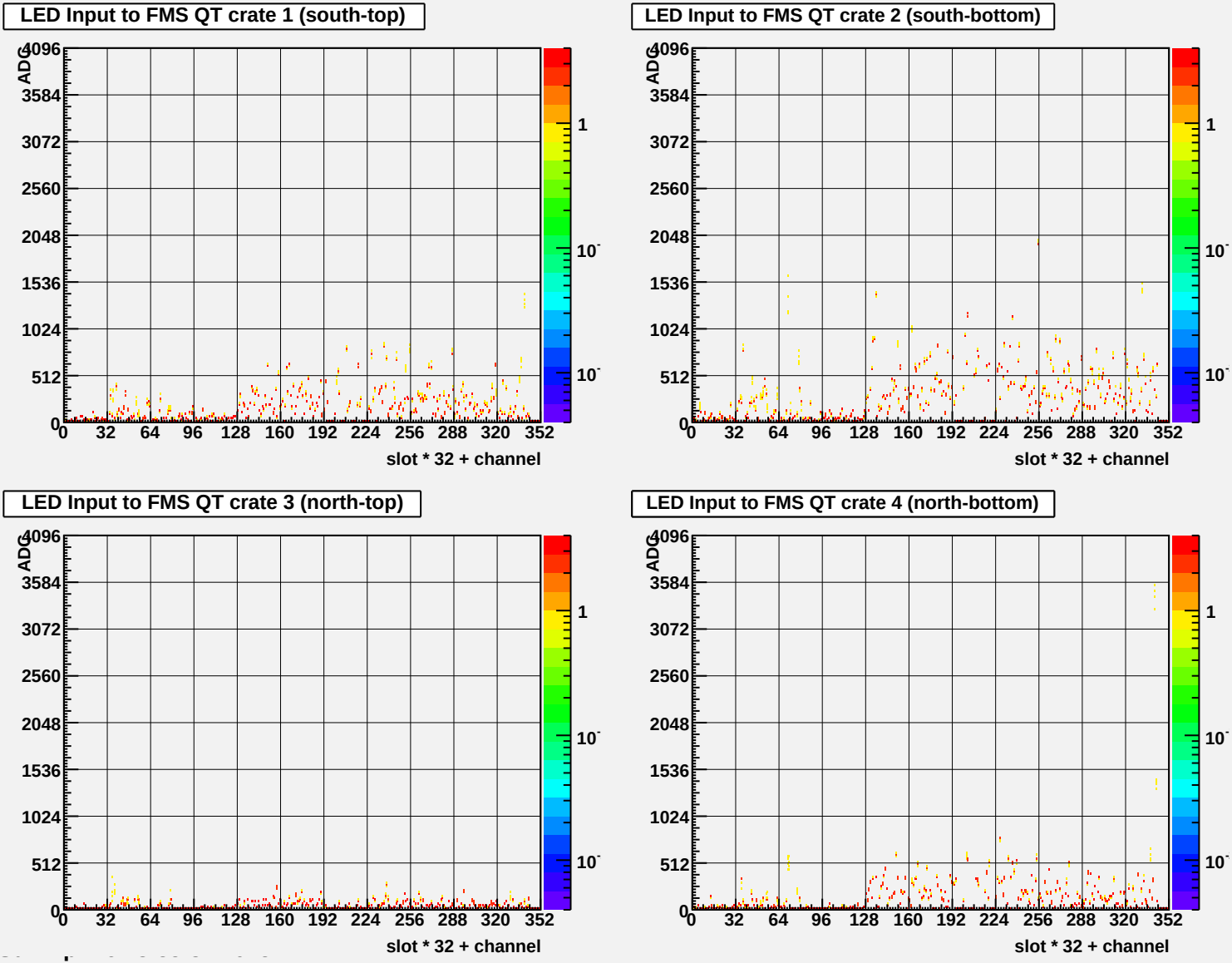

number of towers L0
hL2ups_NumberOfTowersL0
Entries 9910
Mean 0
RMS 0


number of towers L2
hL2ups_NumberOfTowersL2
Entries 9910
Mean 0.2848
RMS 1.396

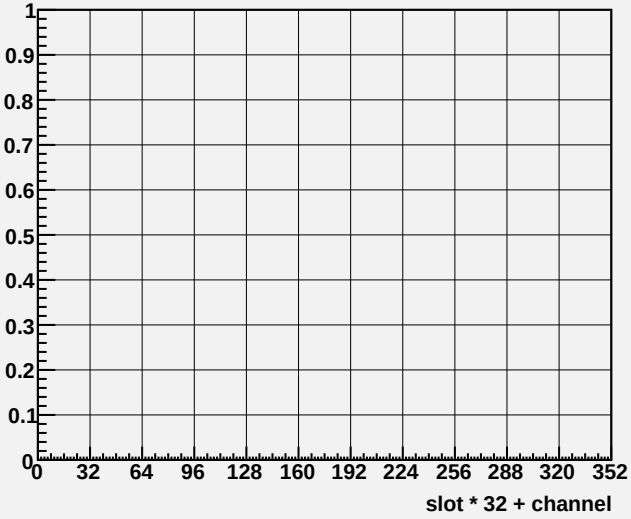

phi vs eta L0
hL2ups_EtaPhiL0
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0


phi vs eta L2
hL2ups_EtaPhiL2
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0

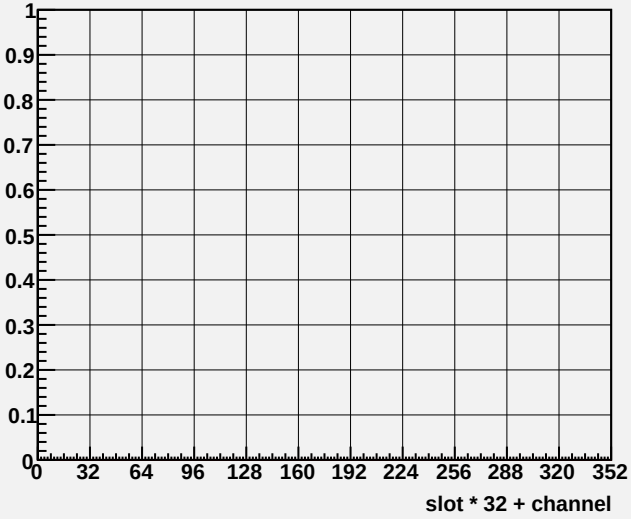

Input to FMS QT crate 1 (south-top)
Input to FMS QT crate 2 (south-bottom)
Input to FMS QT crate 3 (north-top)
Input to FMS QT crate 4 (north-bottom)
ADC
4096
3584
3072
2560
2048
1536
1024
512
0
0 32 64 96 128 160 192 224 256 288 320 352
slot * 32 + channel
10^3
10^2
10
1


LED Input to FMS QT crate 1 (south-top)
LED Input to FMS QT crate 2 (south-bottom)
LED Input to FMS QT crate 3 (north-top)
LED Input to FMS QT crate 4 (north-bottom)
ADC
4096
3584
3072
2560
2048
1536
1024
512
0
0 32 64 96 128 160 192 224 256 288 320 352
slot * 32 + channel
1
10⁻
10⁻

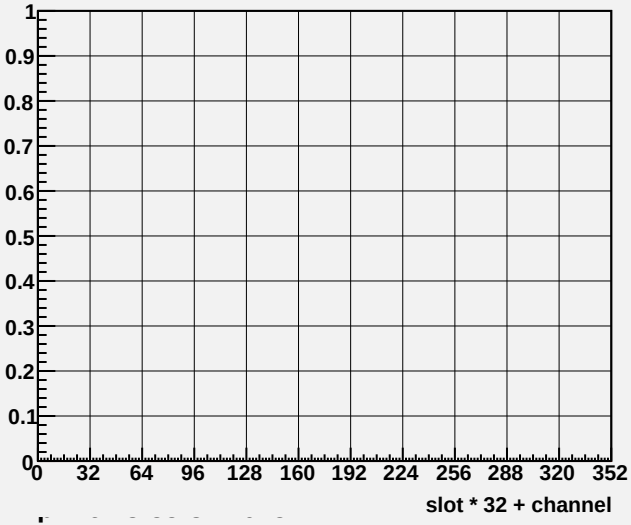
ADC>4094 for QT crate 1 (south-top)



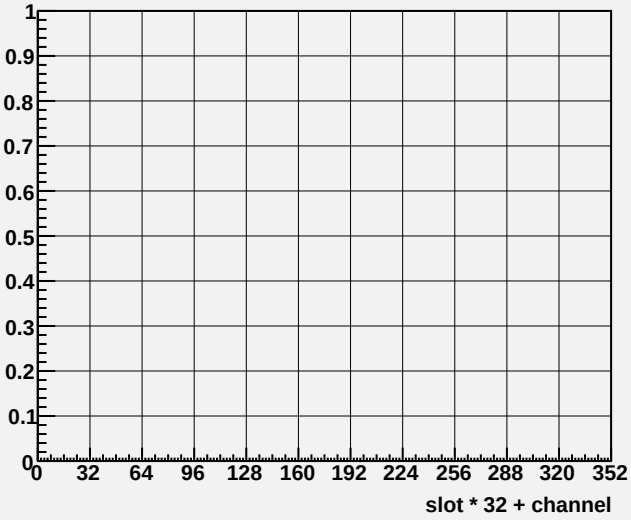
ADC>4094 for QT crate 2 (south-bottom)



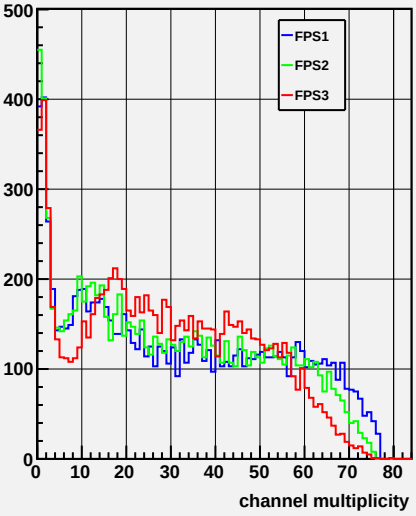
ADC>4094 for QT crate 3 (north-top)



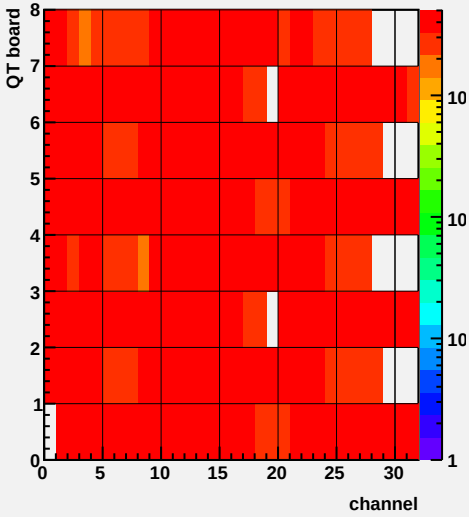
ADC>4094 for QT crate 4 (north-bottom)



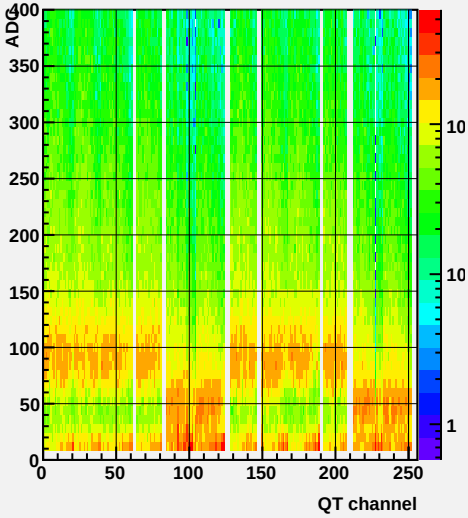
channel multiplicity



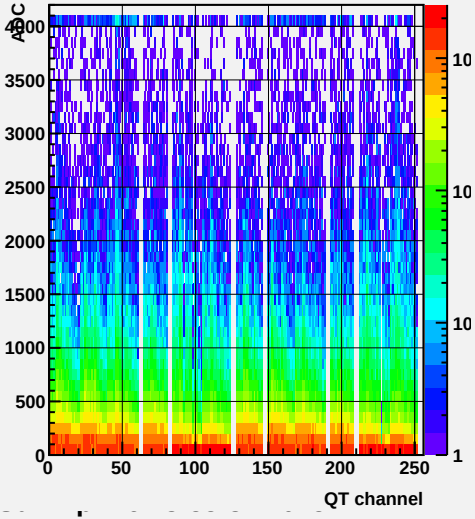
channel vs. rdo



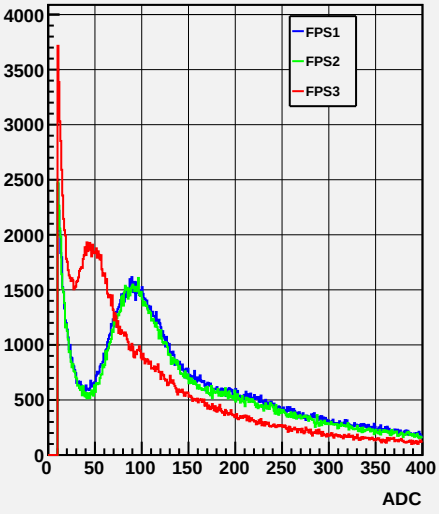
ADC vs. channel



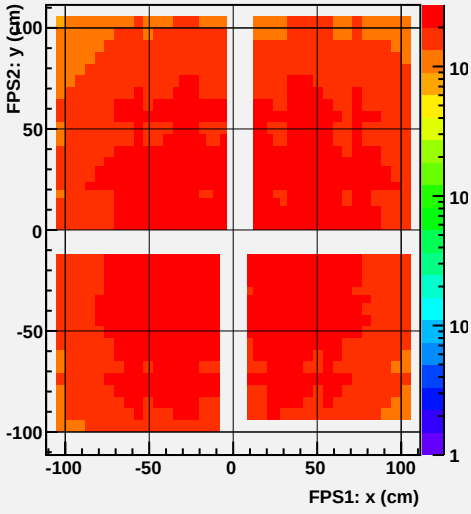
ADC vs. channel

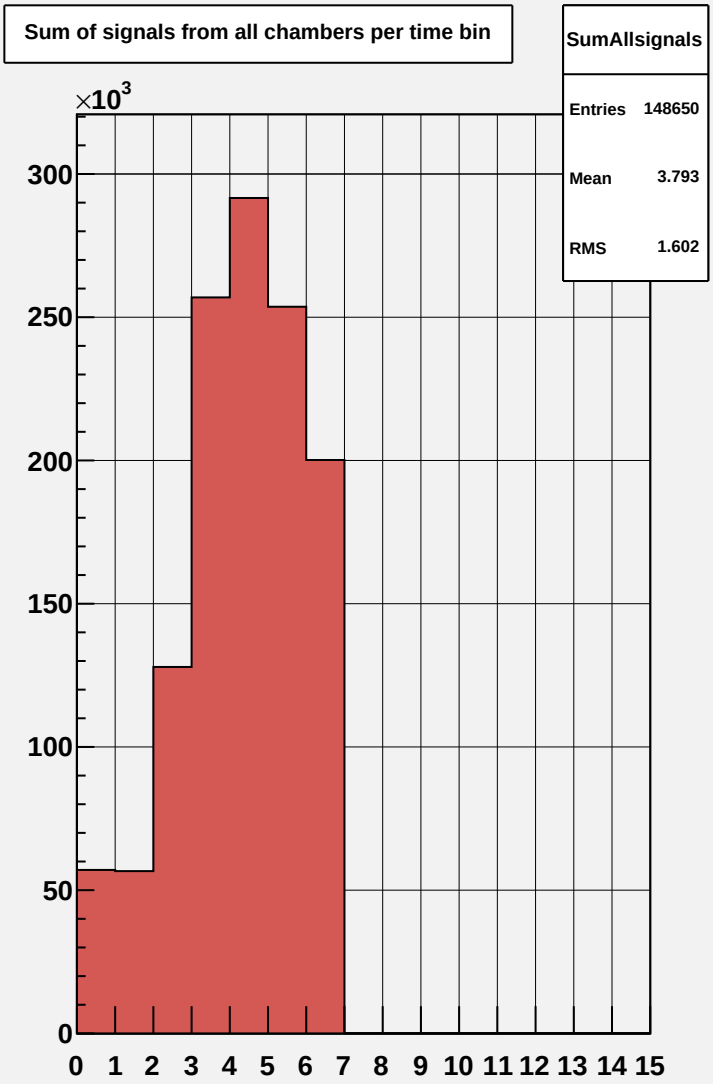


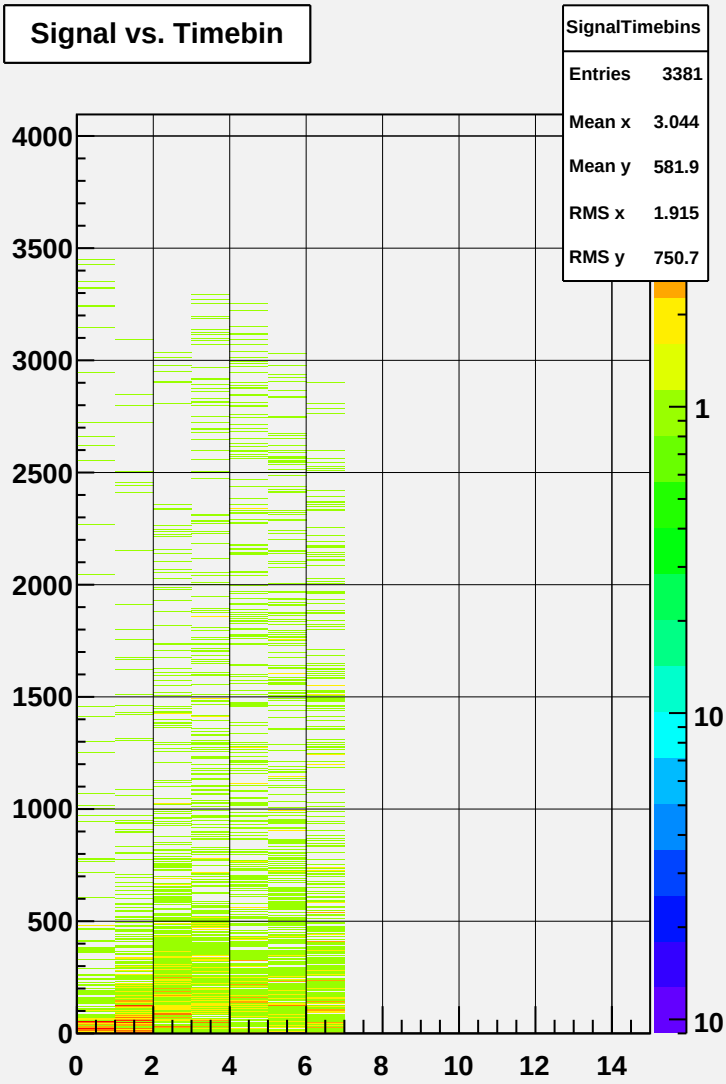
ADC spectra

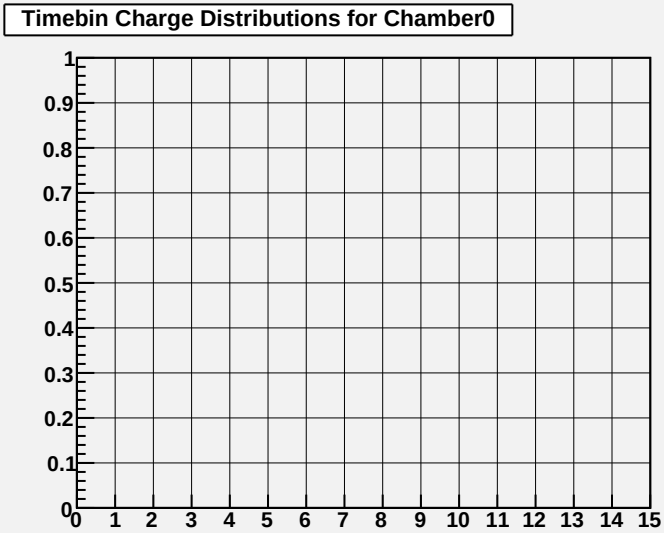


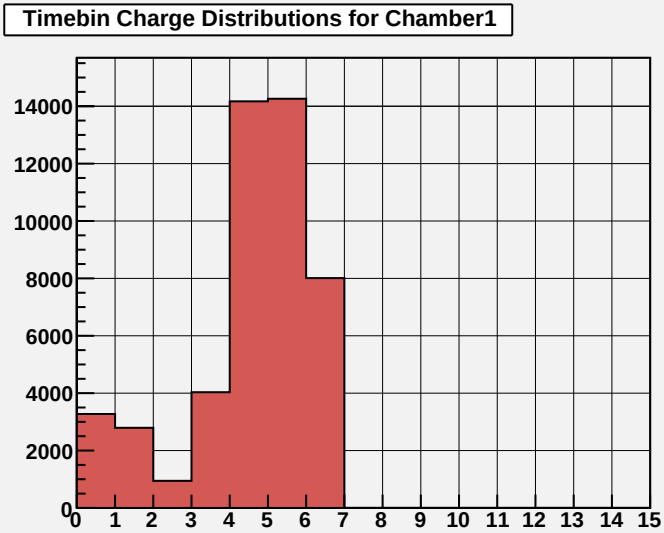
hits in layers 1 & 2

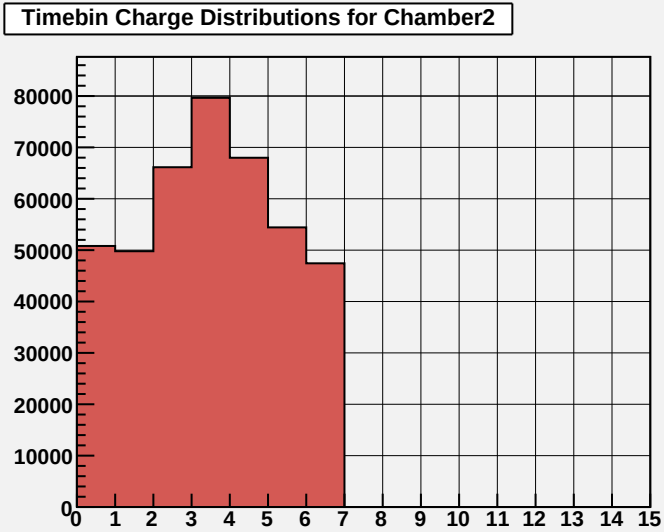


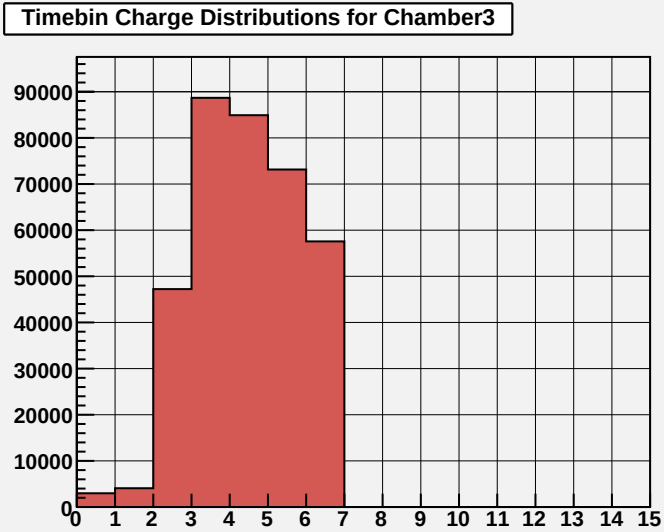

Sum of signals from all chambers per time bin
SumAllsignals
Entries 148650
Mean 3.793
RMS 1.602
×10^3
300
250
200
150
100
50
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

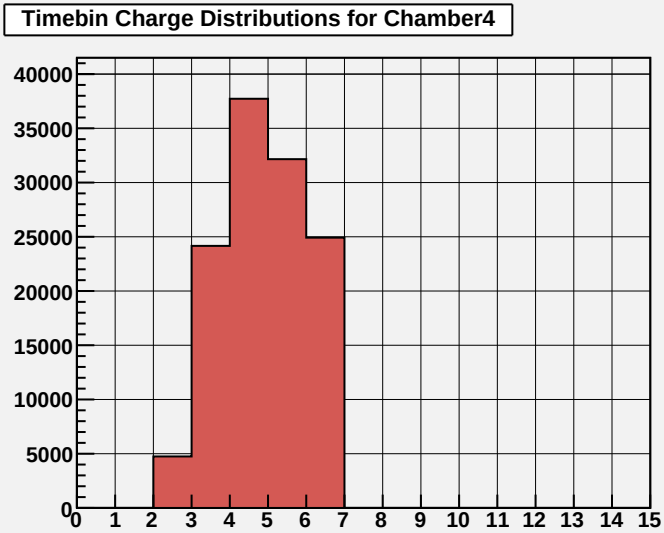

Signal vs. Timebin
SignalTimebins
Entries 3381
Mean x 3.044
Mean y 581.9
RMS x 1.915
RMS y 750.7
4000
3500
3000
2500
2000
1500
1000
500
0
0 2 4 6 8 10 12 14
1
10
10

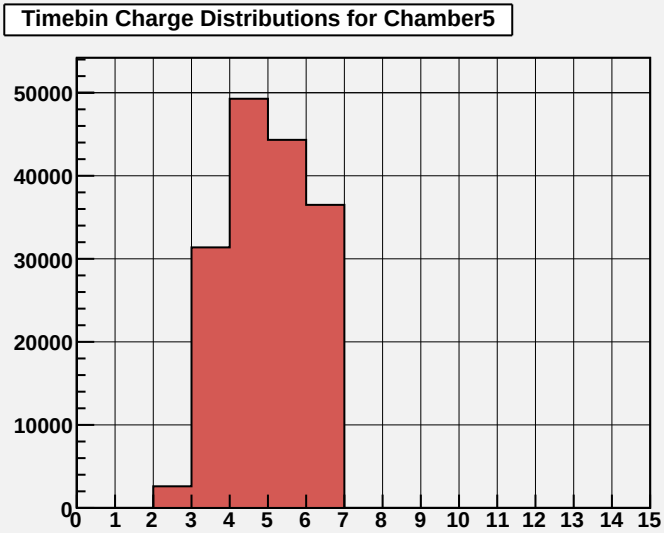

Timebin Charge Distributions for Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

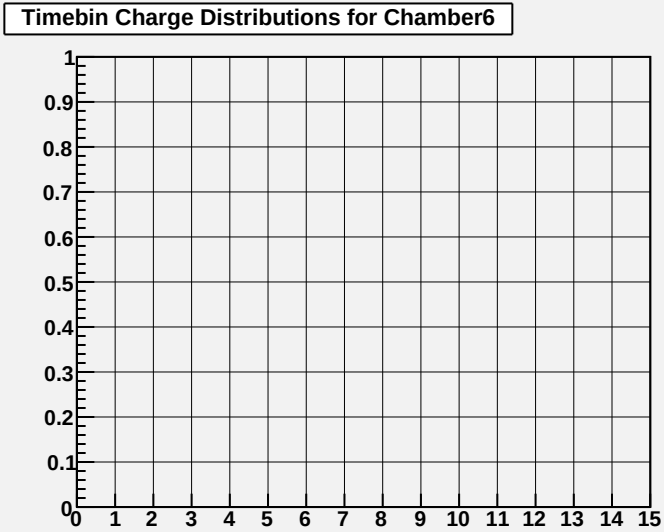

Timebin Charge Distributions for Chamber1
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

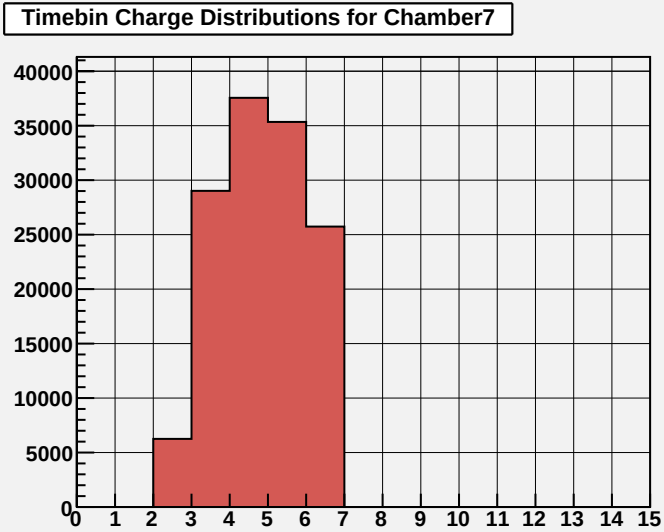

Timebin Charge Distributions for Chamber2
80000
70000
60000
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

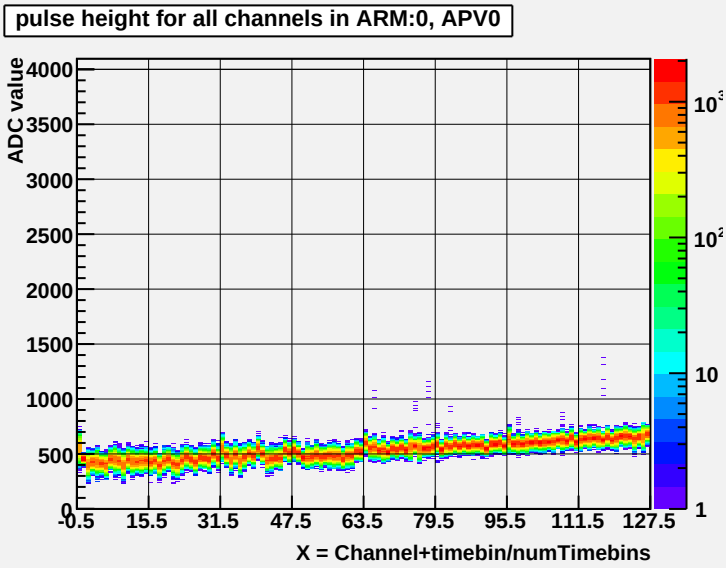

Timebin Charge Distributions for Chamber3
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

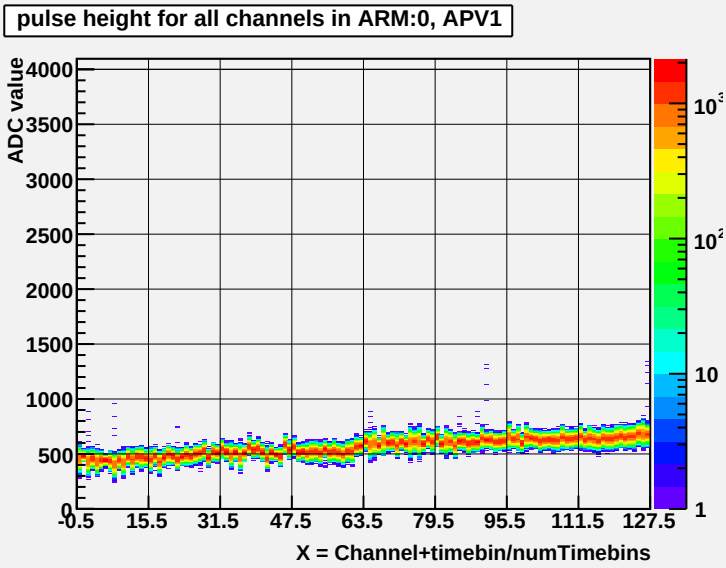

Timebin Charge Distributions for Chamber4
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

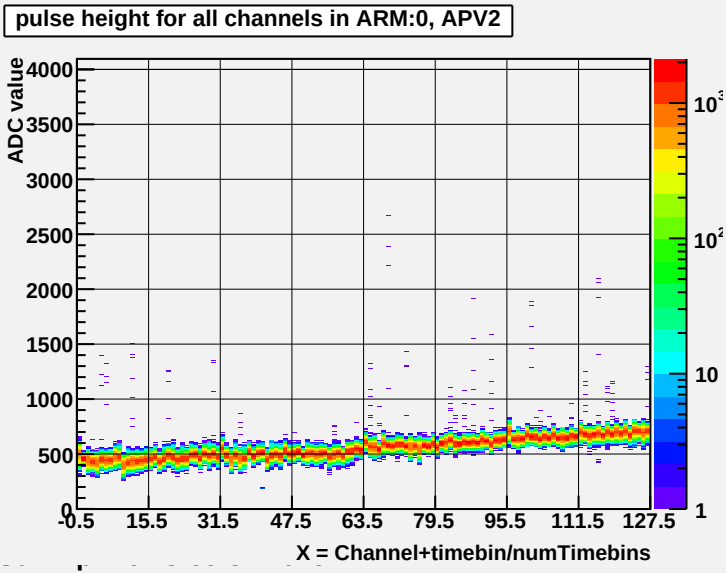

Timebin Charge Distributions for Chamber5
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

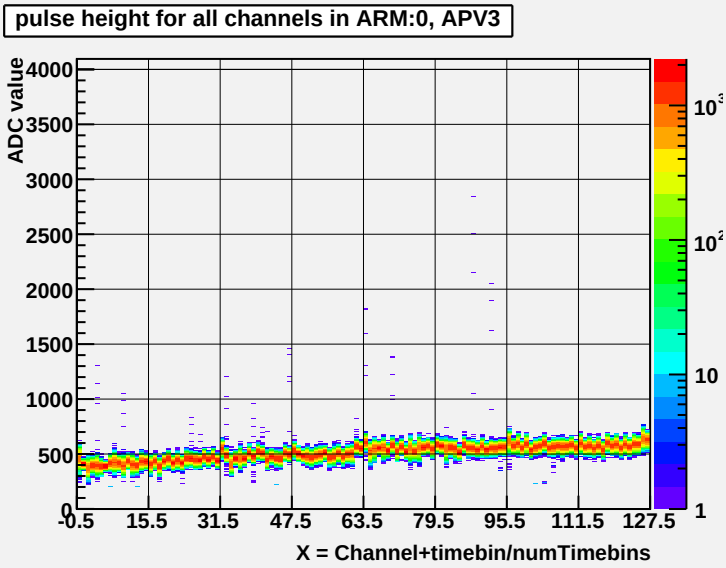

Timebin Charge Distributions for Chamber6
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

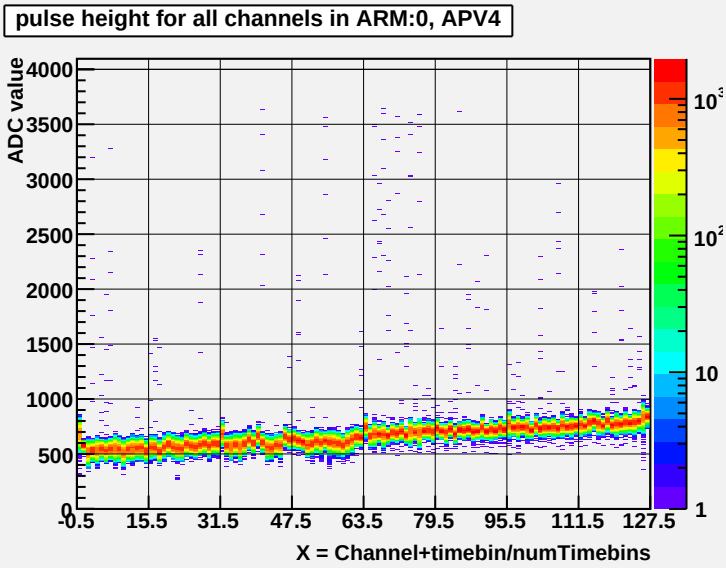

Timebin Charge Distributions for Chamber7
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

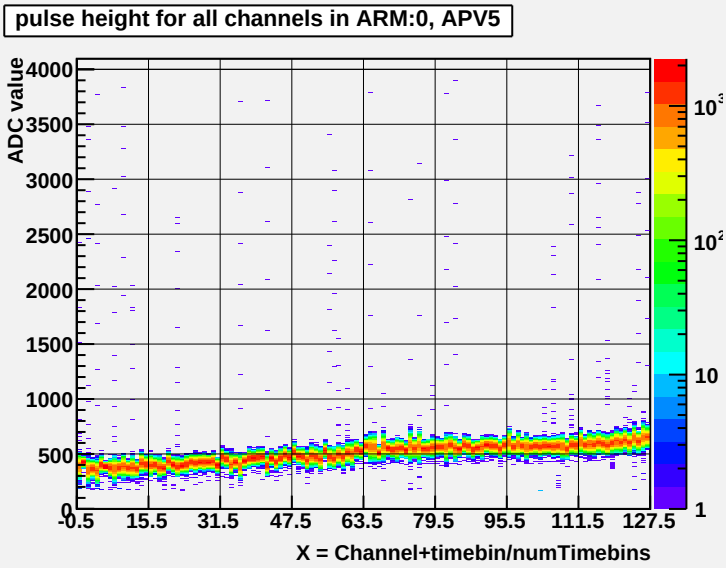

pulse height for all channels in ARM:0, APV0
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

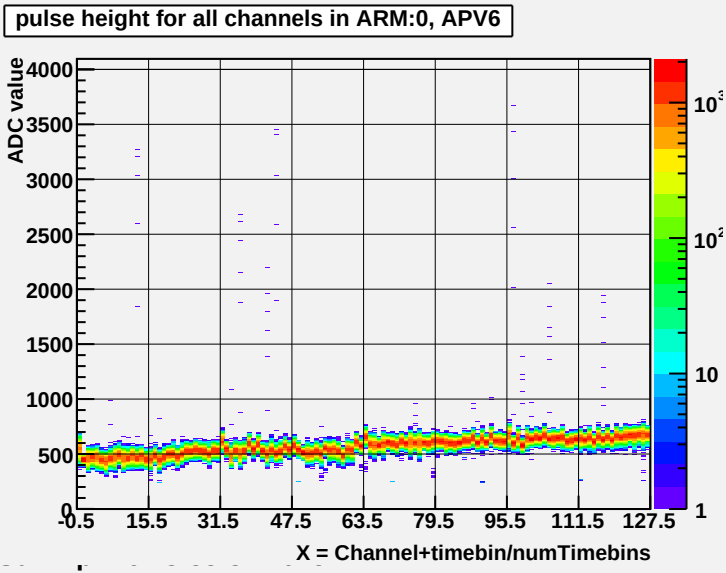

pulse height for all channels in ARM:0, APV1
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

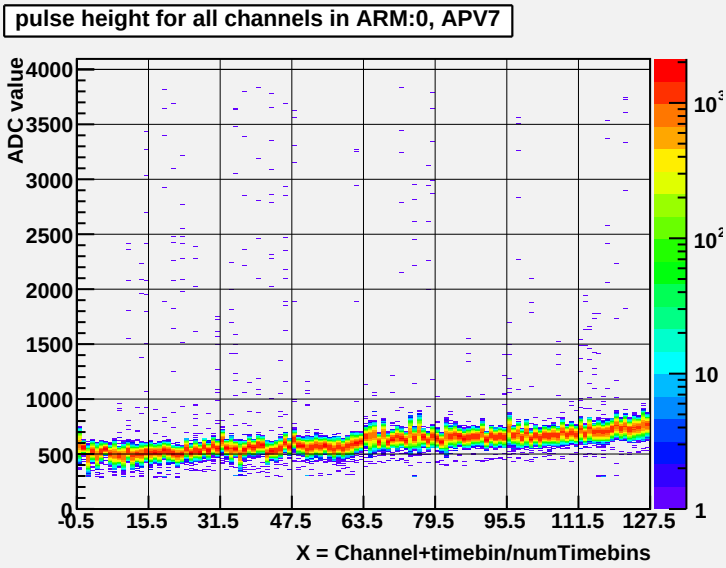

pulse height for all channels in ARM:0, APV2
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

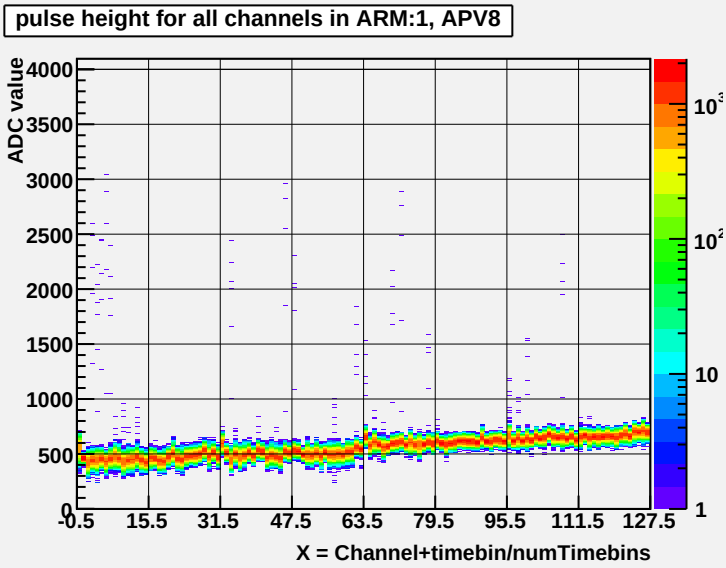

pulse height for all channels in ARM:0, APV3
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

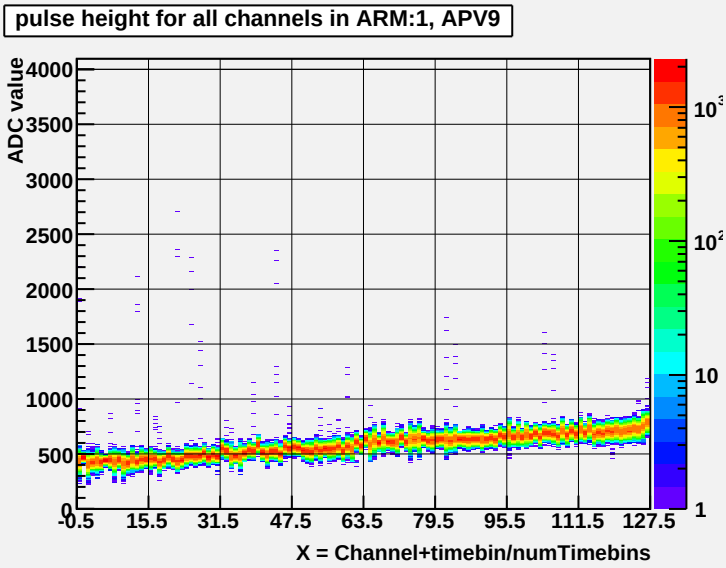

pulse height for all channels in ARM:0, APV4
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

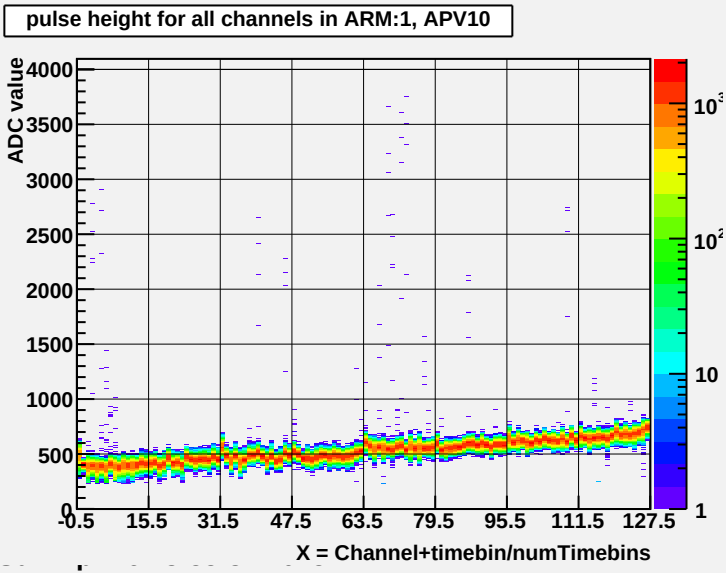

pulse height for all channels in ARM:0, APV5
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

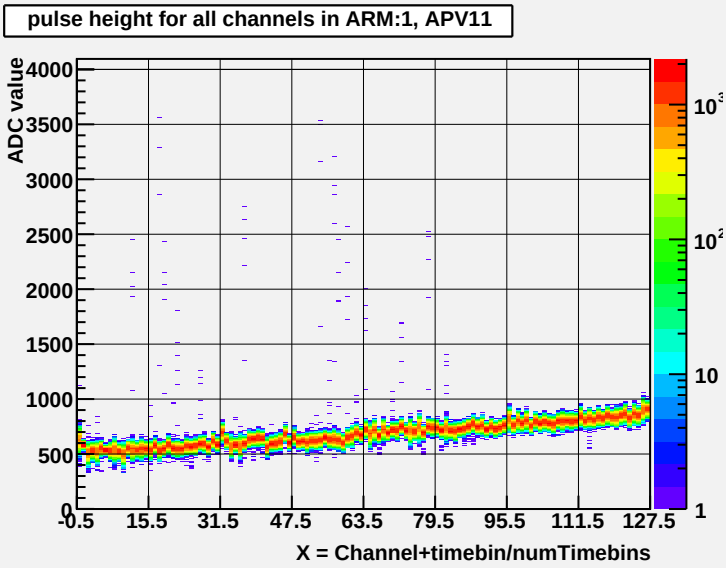

pulse height for all channels in ARM:0, APV6
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

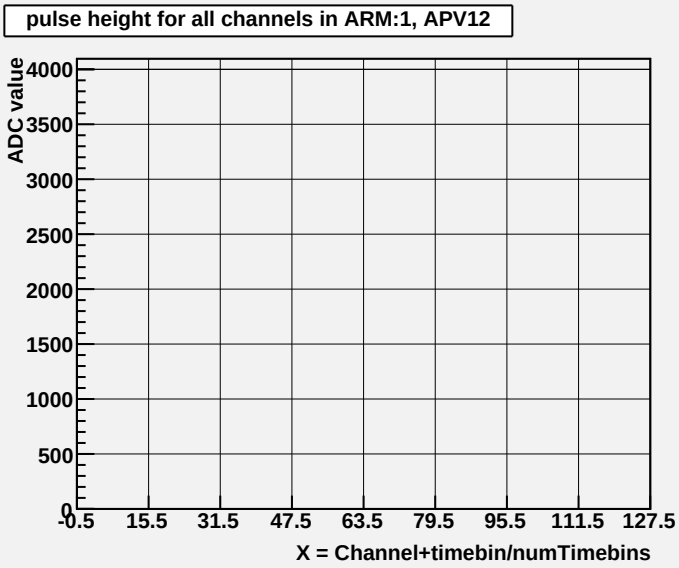

pulse height for all channels in ARM:0, APV7
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

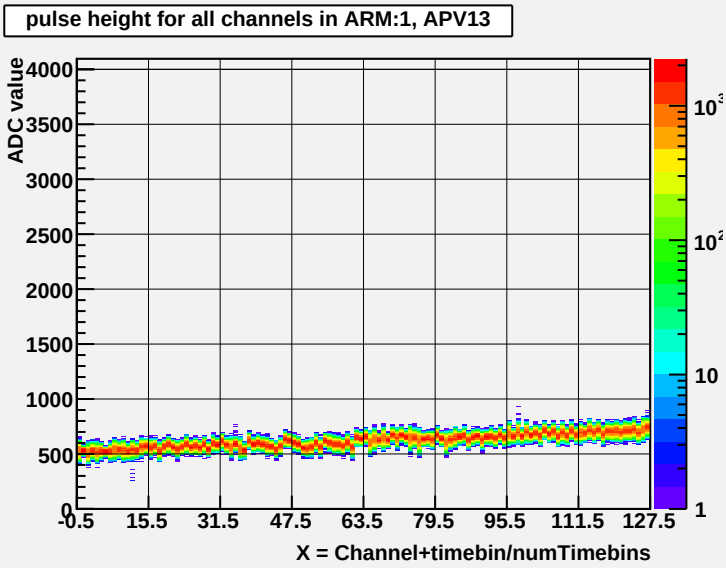

pulse height for all channels in ARM:1, APV8
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

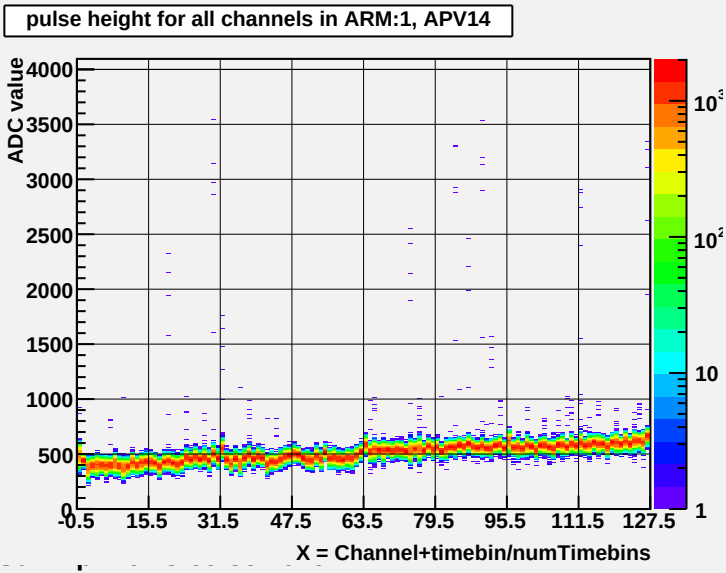

pulse height for all channels in ARM:1, APV9
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

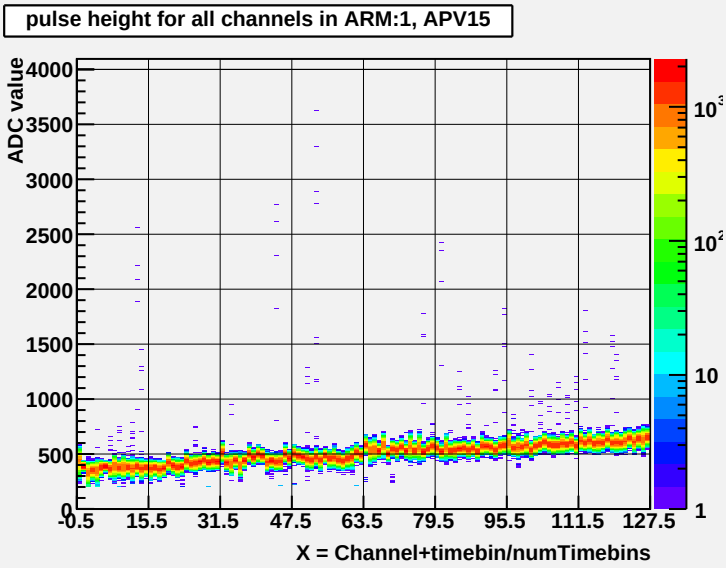

pulse height for all channels in ARM:1, APV10
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

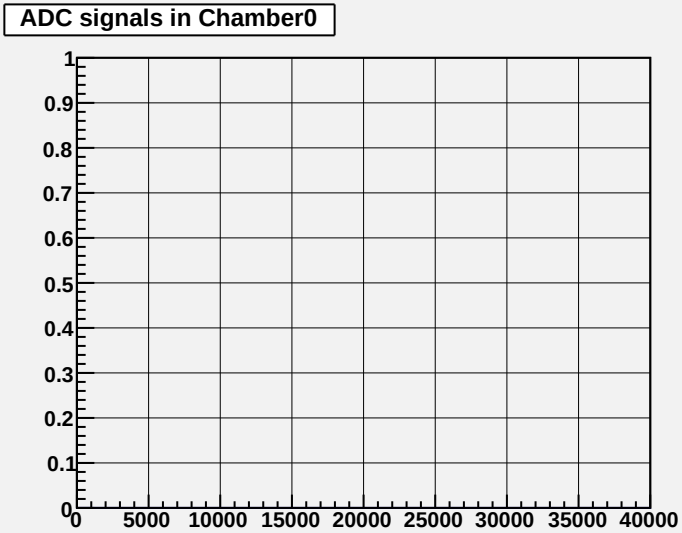

pulse height for all channels in ARM:1, APV11
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^3
10^2
10
1

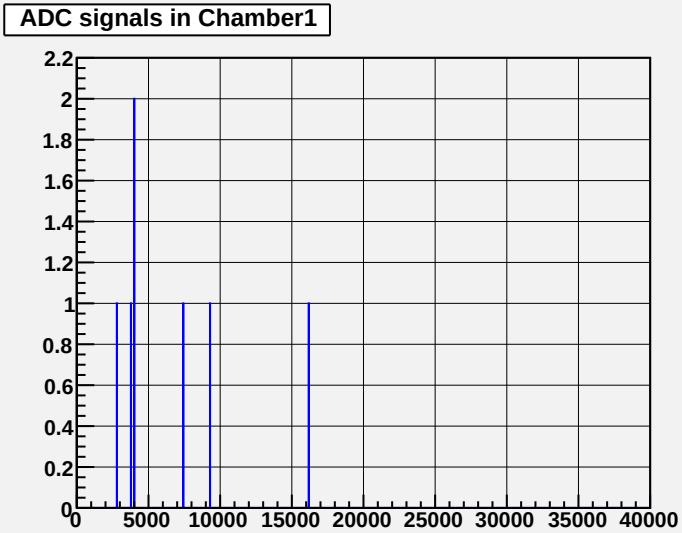

pulse height for all channels in ARM:1, APV12
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins

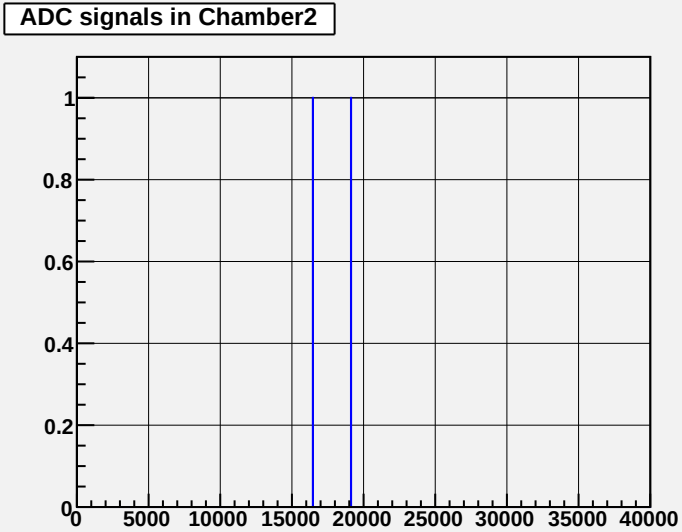

pulse height for all channels in ARM:1, APV13
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10³
10²
10
1

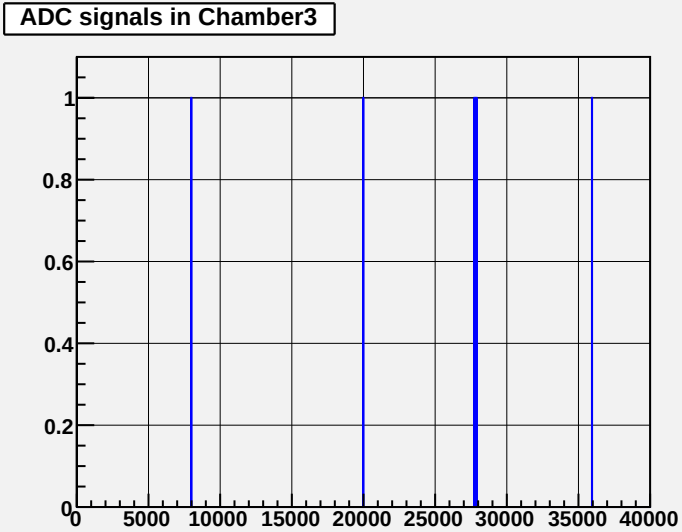

pulse height for all channels in ARM:1, APV14
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10³
10²
10
1

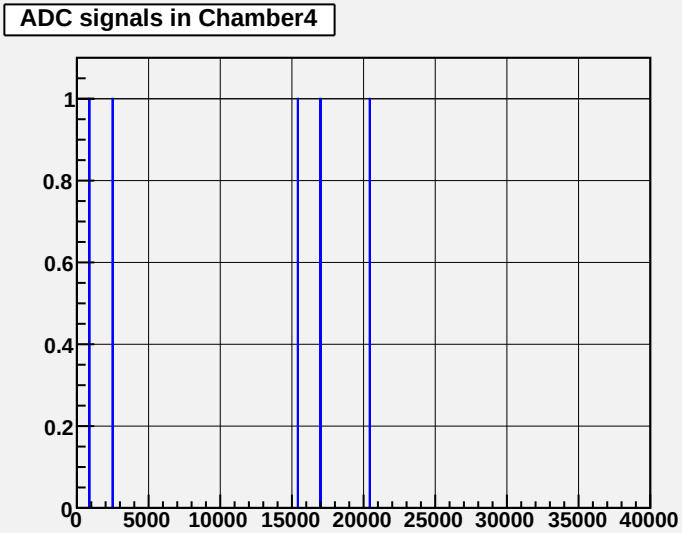

pulse height for all channels in ARM:1, APV15
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10³
10²
10
1

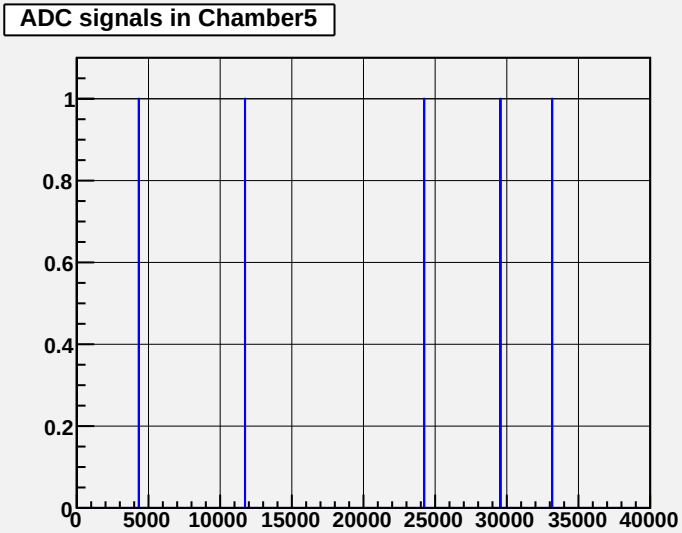

ADC signals in Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

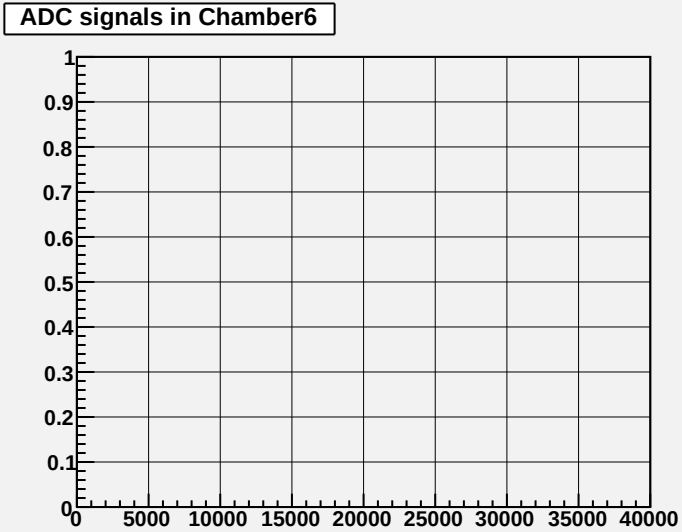

ADC signals in Chamber1
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

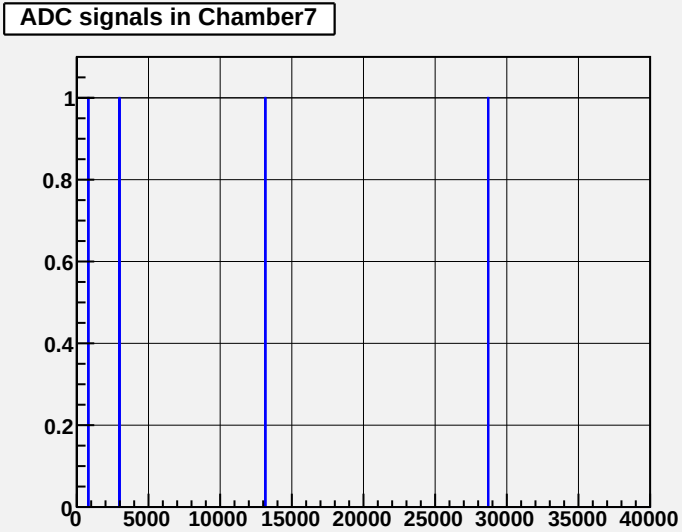

ADC signals in Chamber2
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000


ADC signals in Chamber3
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

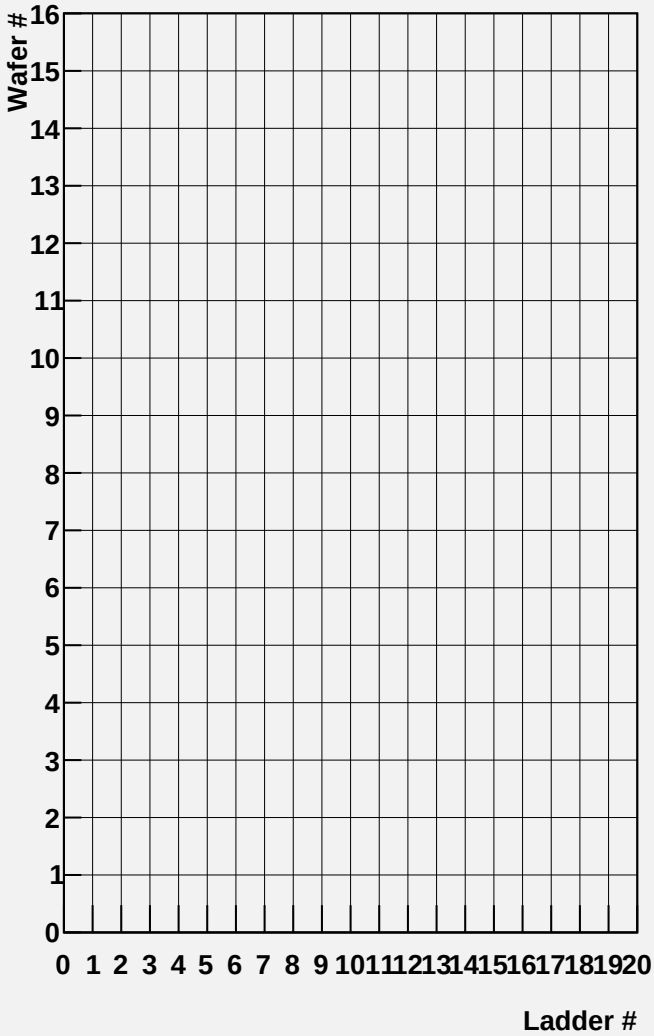

ADC signals in Chamber4
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000


ADC signals in Chamber5
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

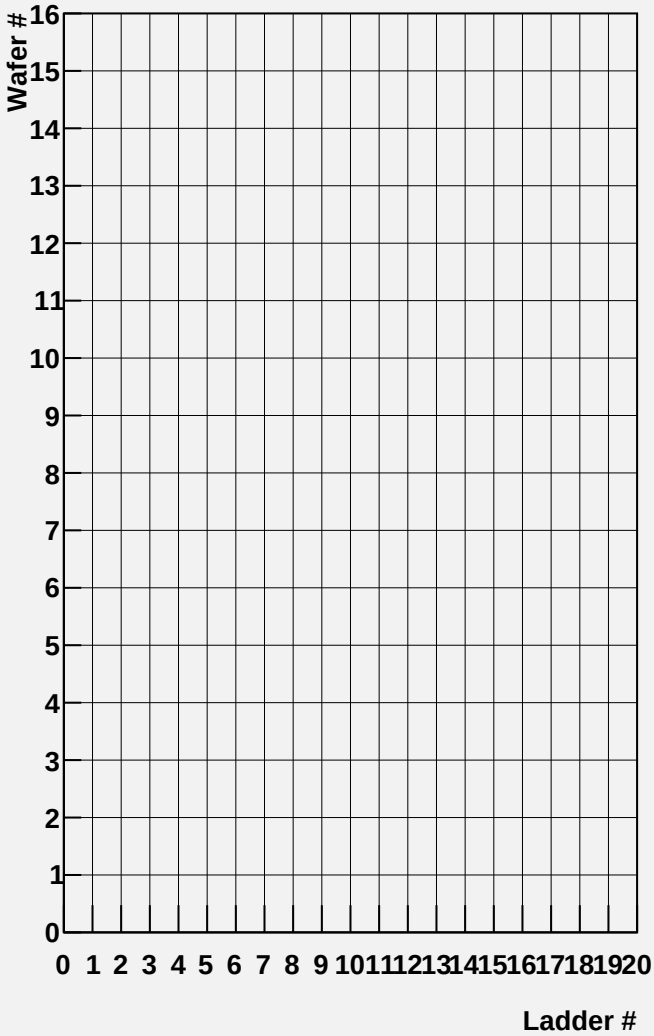

ADC signals in Chamber6
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

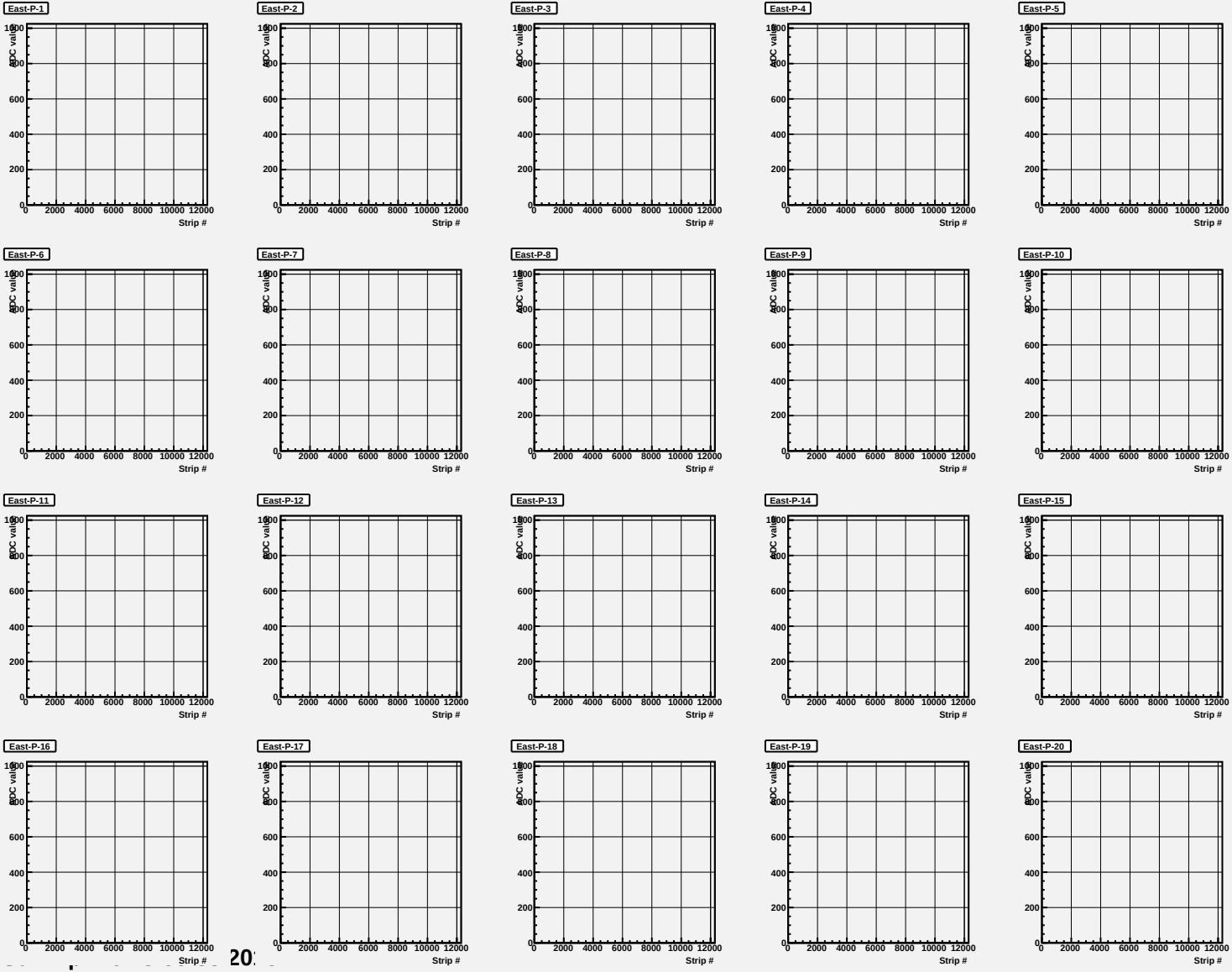

ADC signals in Chamber7
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

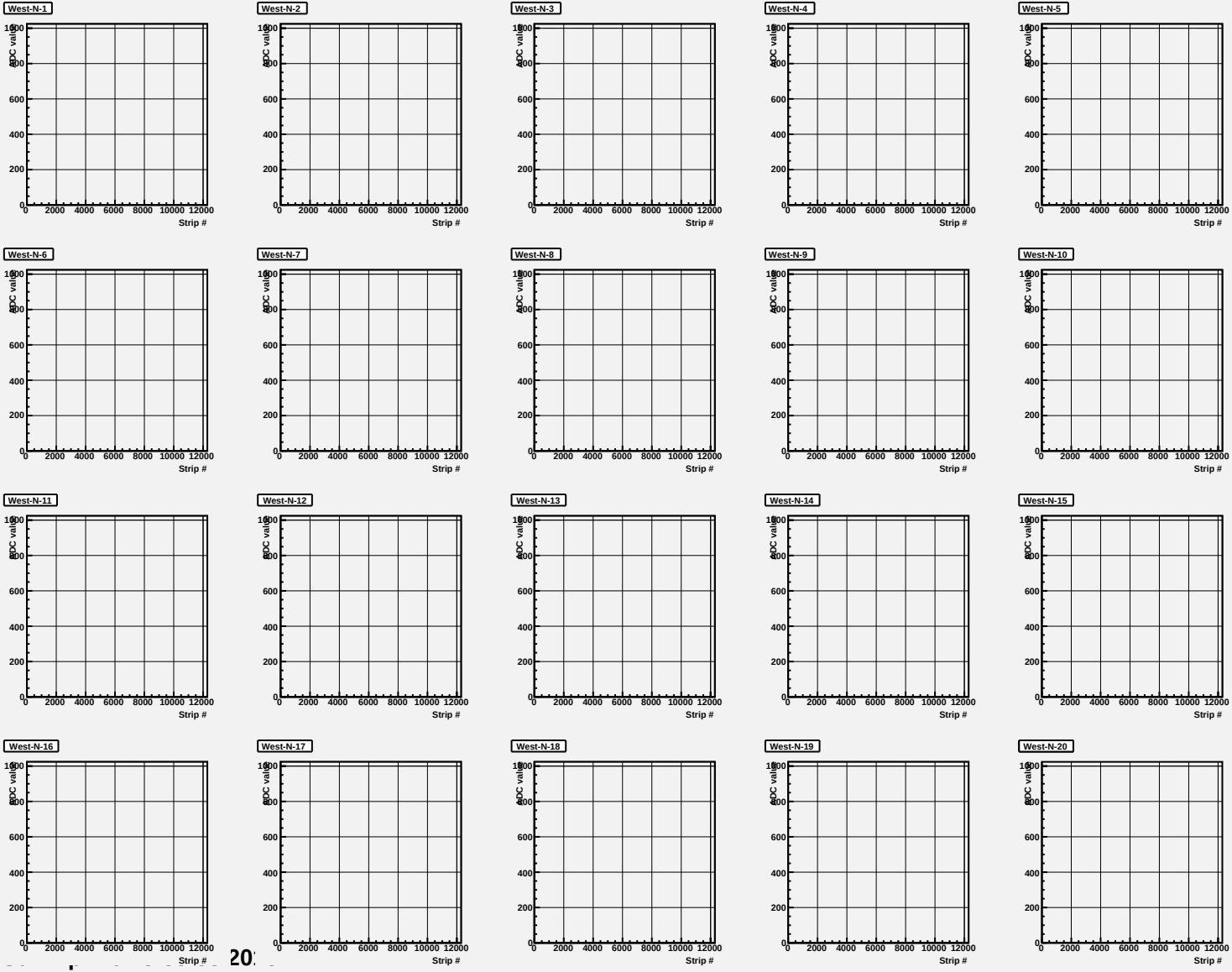
N-side Hit Map

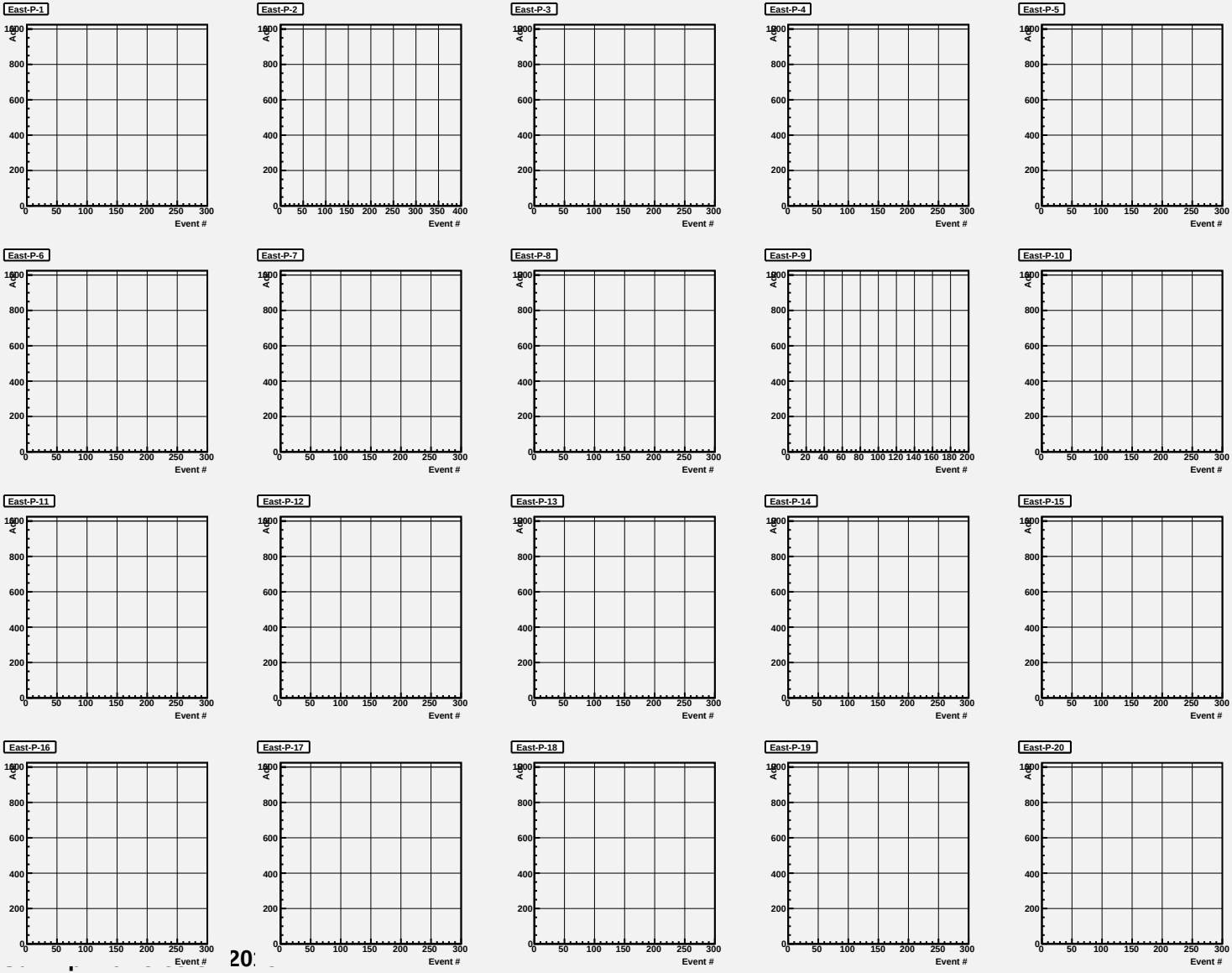


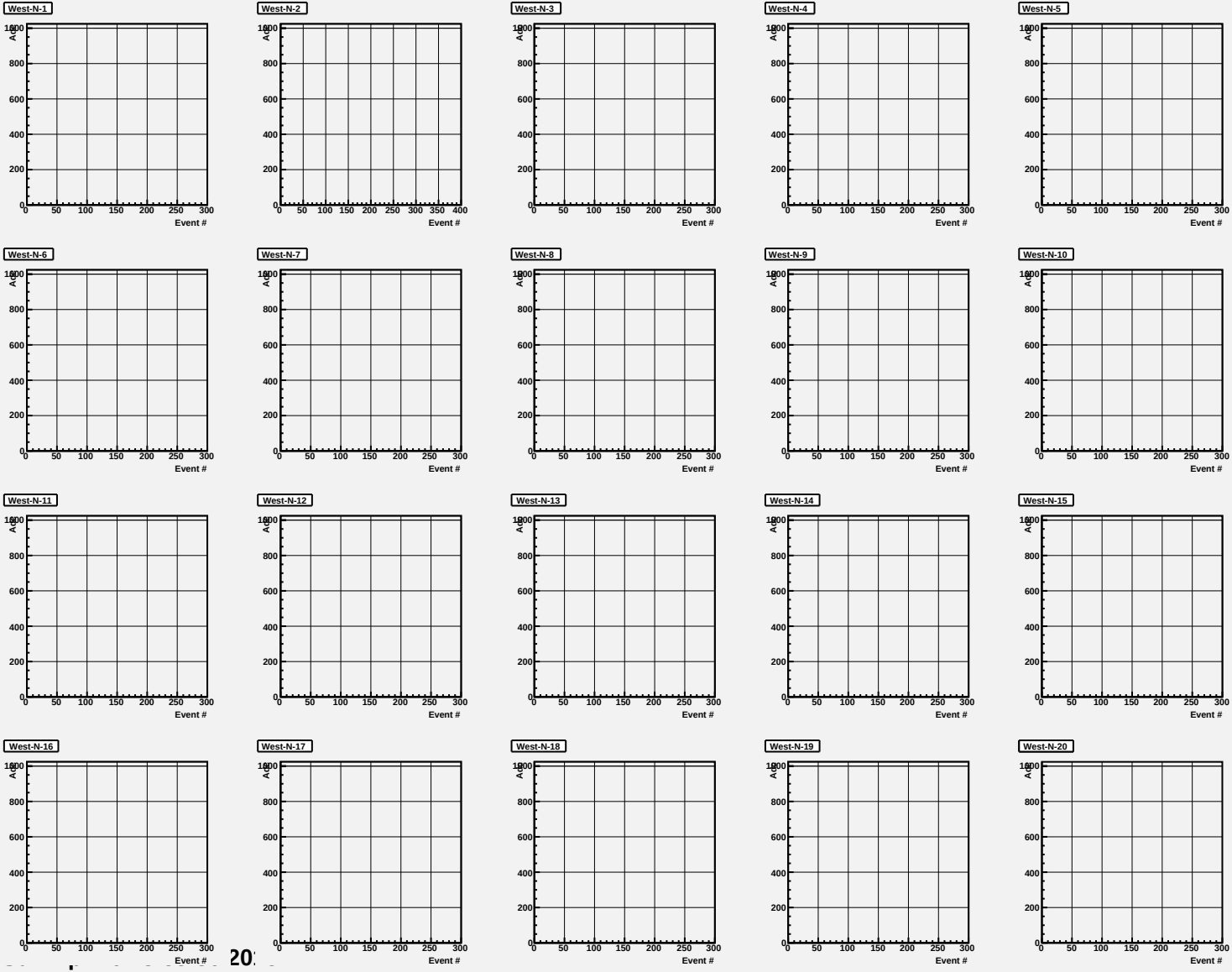
P-side Hit Map

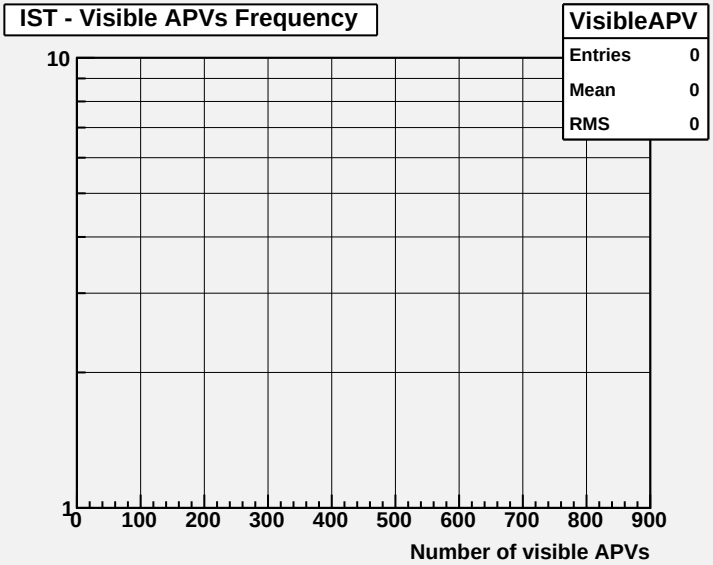


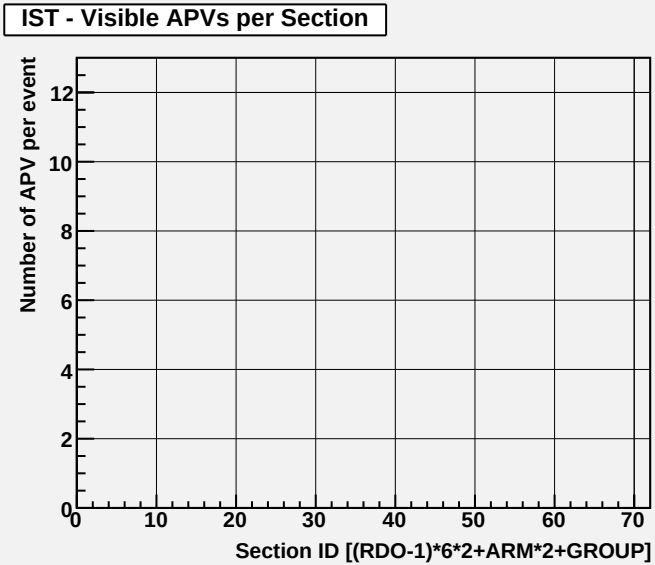

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
ADC value
Strip #
0
200
400
600
800
1000
1200
2000
4000
6000
8000
10000
12000

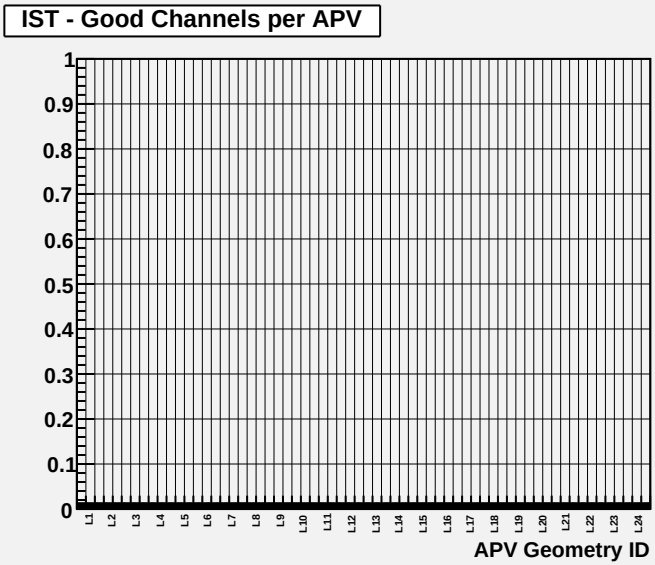

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
ADC value
Strip #
0
200
400
600
800
1000
1200
0
2000
4000
6000
8000
10000
12000

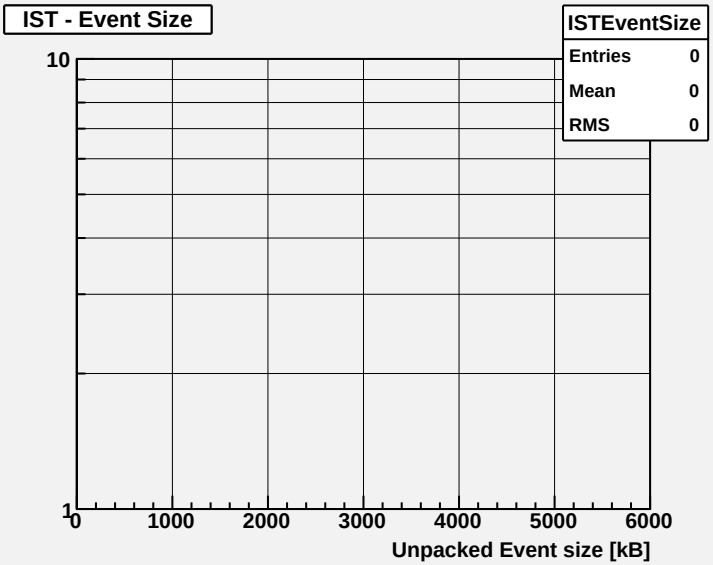

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
Adc
Event #

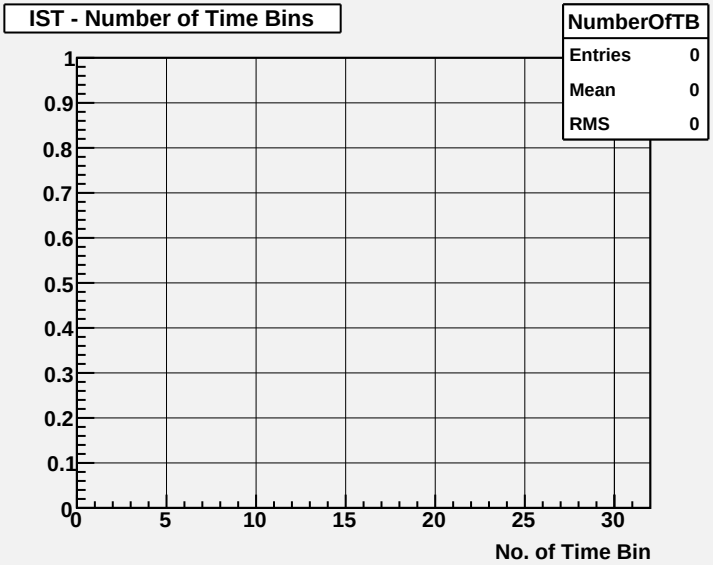

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
Adc
Event #

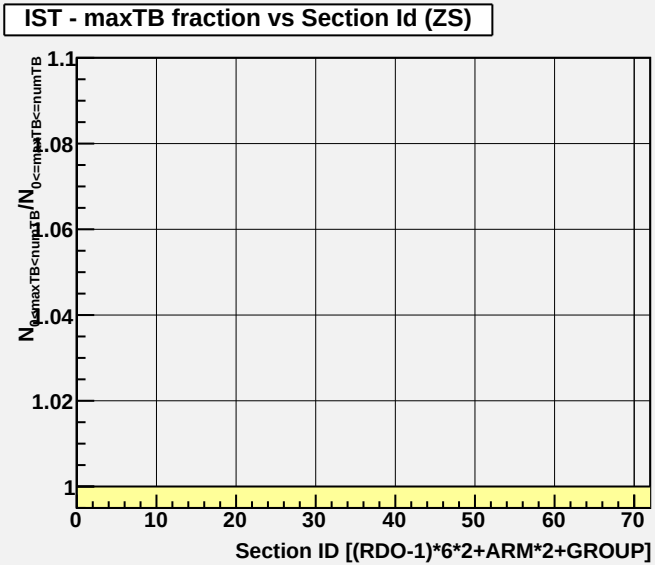

IST - Visible APVs Frequency
VisibleAPV
Entries 0
Mean 0
RMS 0
10
1
0 100 200 300 400 500 600 700 800 900
Number of visible APVs

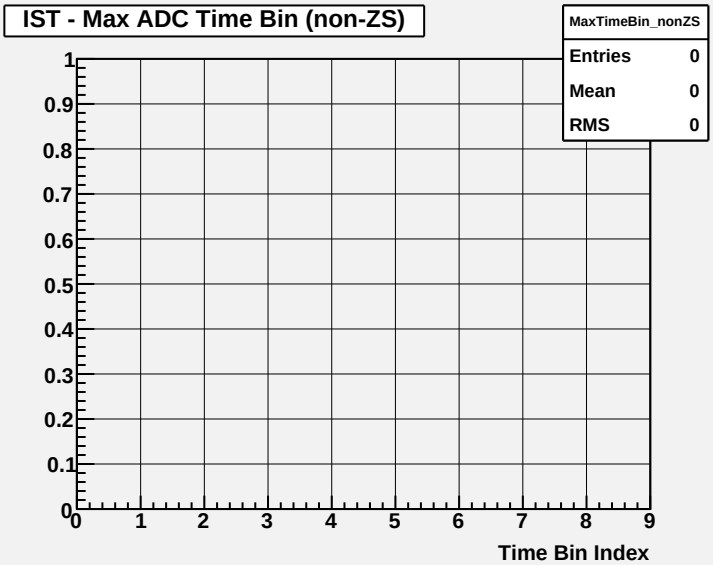

IST - Visible APVs per Section
Number of APV per event
0 2 4 6 8 10 12
0 10 20 30 40 50 60 70
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

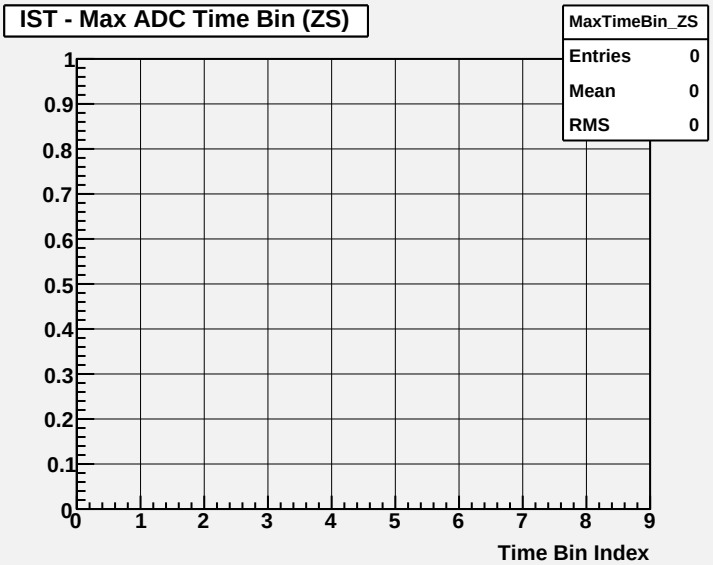

IST - Good Channels per APV
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24
APV Geometry ID

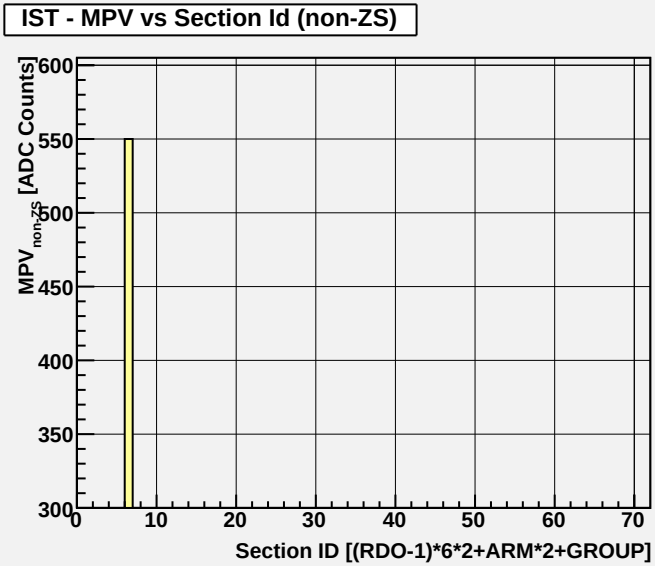

IST - Event Size
ISTEventSize
Entries 0
Mean 0
RMS 0
10
1
0 1000 2000 3000 4000 5000 6000
Unpacked Event size [kB]

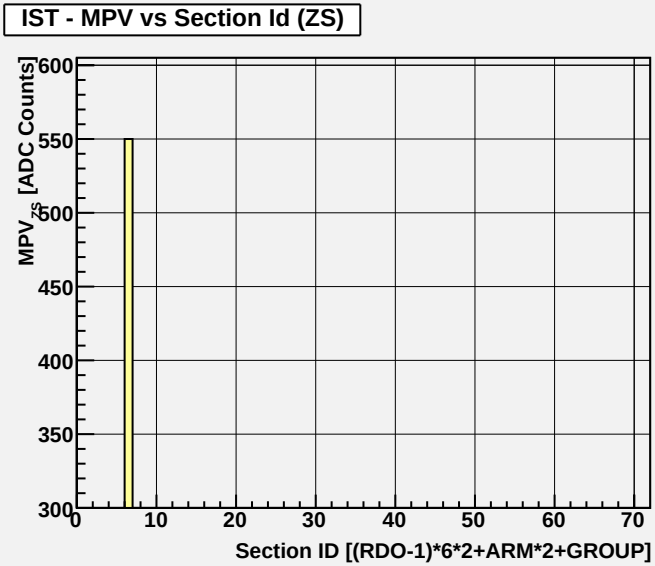

IST - Number of Time Bins
NumberOfTB
Entries 0
Mean 0
RMS 0
No. of Time Bin

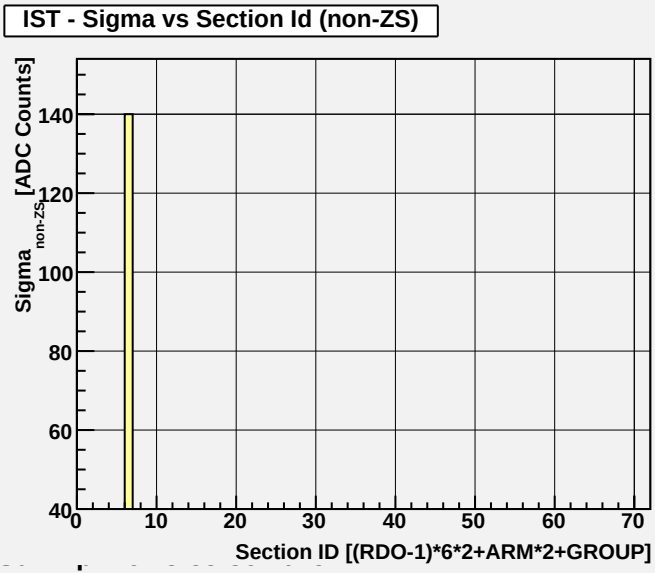

IST - maxTB fraction vs Section Id (ZS)
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

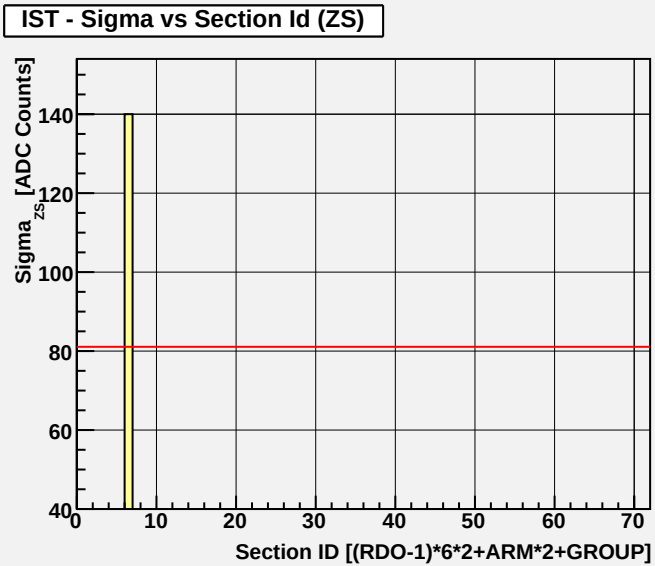

IST - Max ADC Time Bin (non-ZS)
MaxTimeBin_nonZS
Entries 0
Mean 0
RMS 0
Time Bin Index

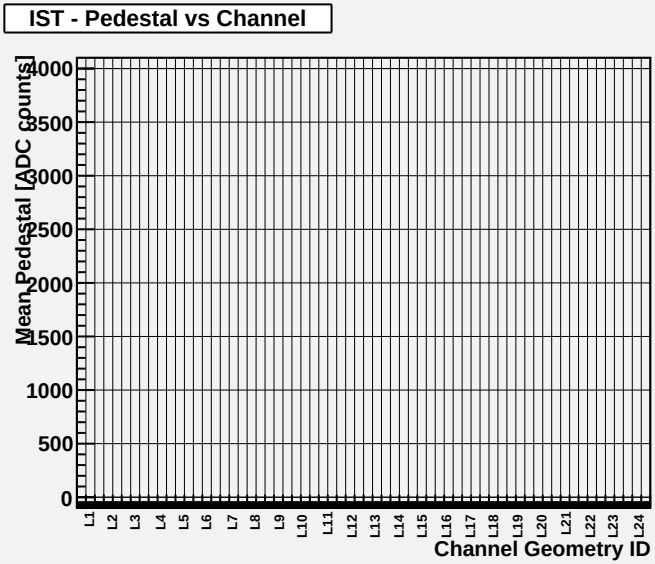

IST - Max ADC Time Bin (ZS)
MaxTimeBin_ZS
Entries 0
Mean 0
RMS 0
Time Bin Index

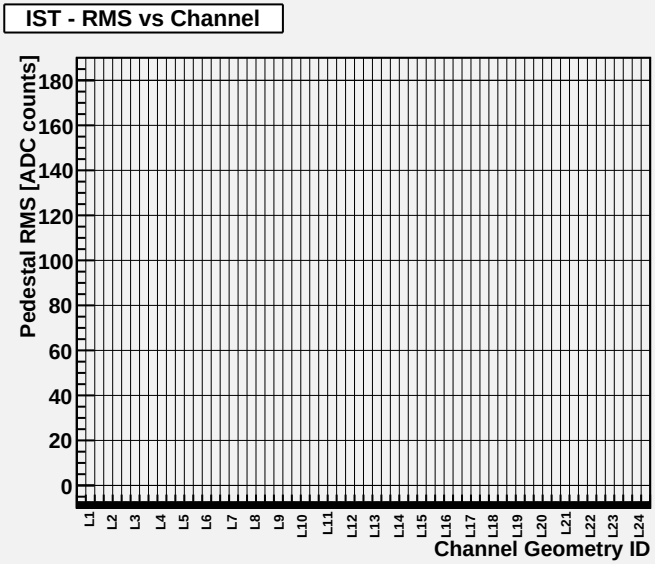

IST - MPV vs Section Id (non-ZS)
MPV non-ZS [ADC Counts]
600
550
500
450
400
350
300
0
10
20
30
40
50
60
70
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

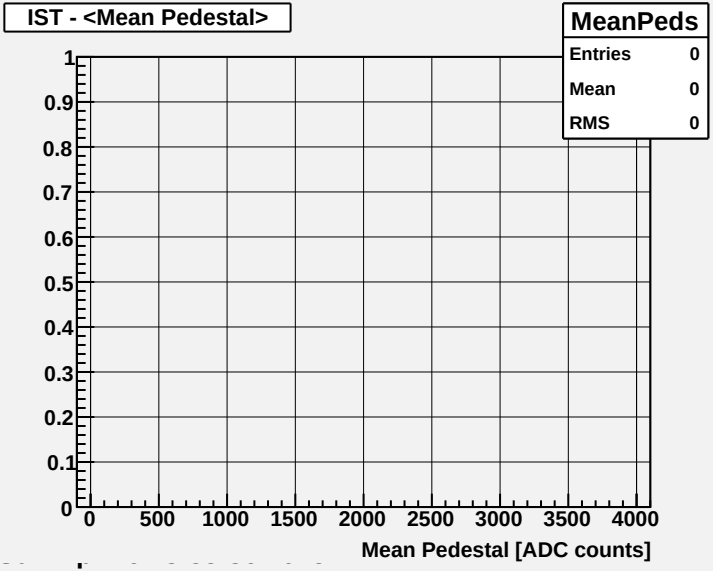

IST - MPV vs Section Id (ZS)
MPV ZS [ADC Counts]
600
550
500
450
400
350
300
0
10
20
30
40
50
60
70
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

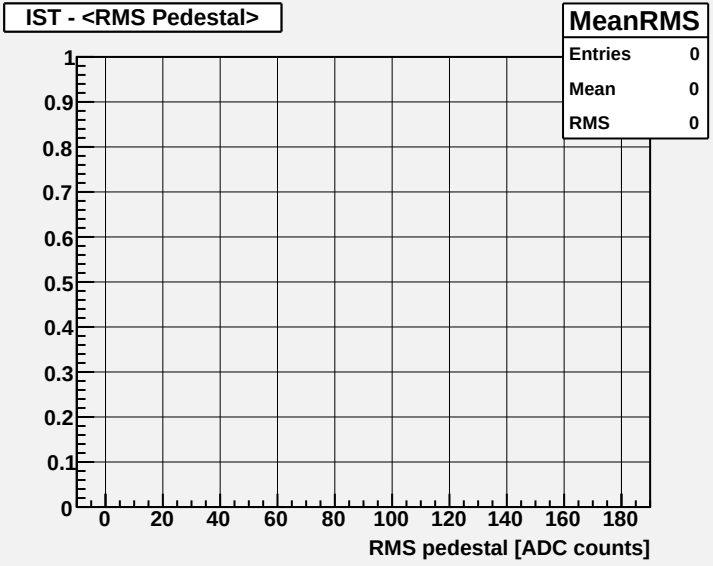

IST - Sigma vs Section Id (non-ZS)
Sigma non-ZS [ADC Counts]
140
120
100
80
60
40
0
10
20
30
40
50
60
70
Section ID [(RDO-1)*6*2+ARM*2+GROUP]


IST - Sigma vs Section Id (ZS)
Sigma ZS [ADC Counts]
140
120
100
80
60
40
0
10
20
30
40
50
60
70
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

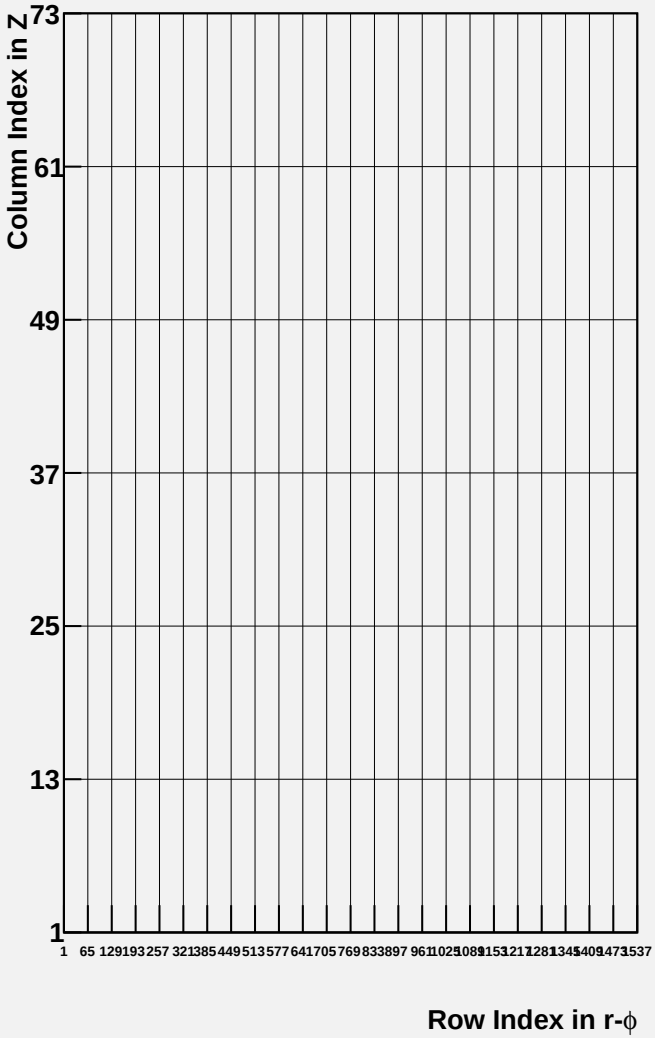

IST - Pedestal vs Channel
Mean Pedestal [ADC counts]
4000
3500
3000
2500
2000
1500
1000
500
0
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24
Channel Geometry ID


IST - RMS vs Channel
Pedestal RMS [ADC counts]
180
160
140
120
100
80
60
40
20
0
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24
Channel Geometry ID

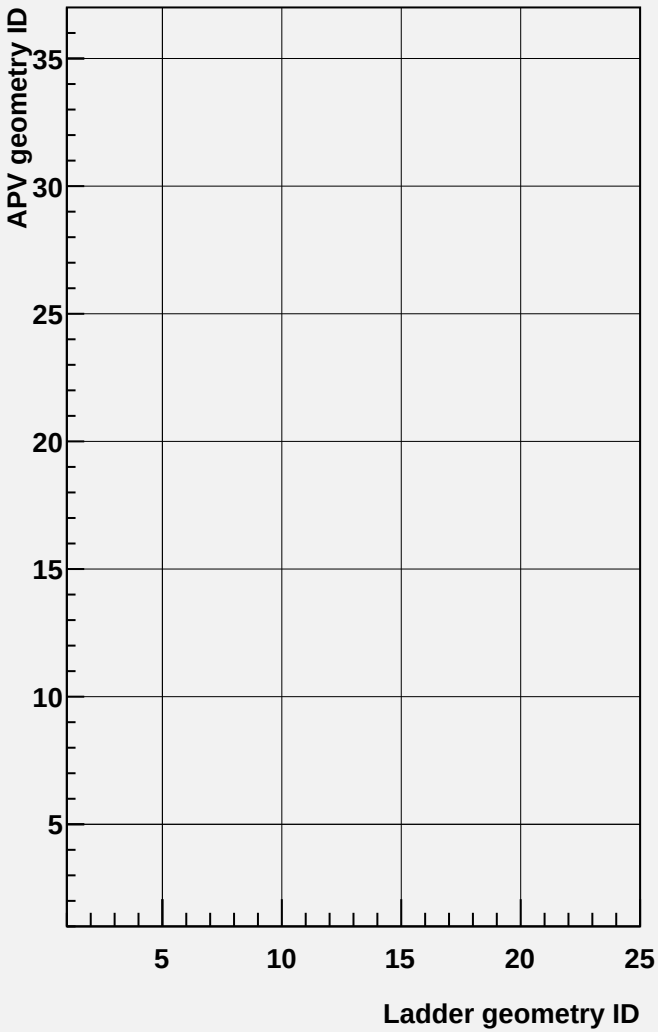

IST - <Mean Pedestal>
MeanPeds
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 500 1000 1500 2000 2500 3000 3500 4000
Mean Pedestal [ADC counts]


IST - <RMS Pedestal>
MeanRMS
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180
RMS pedestal [ADC counts]

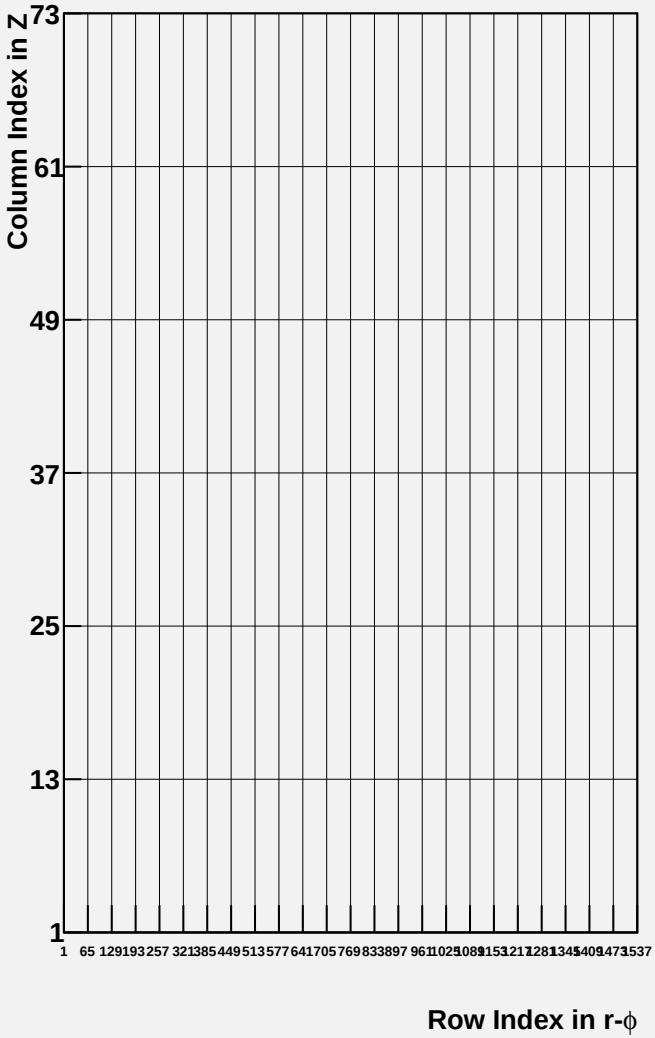
IST - Hit map (non-ZS)



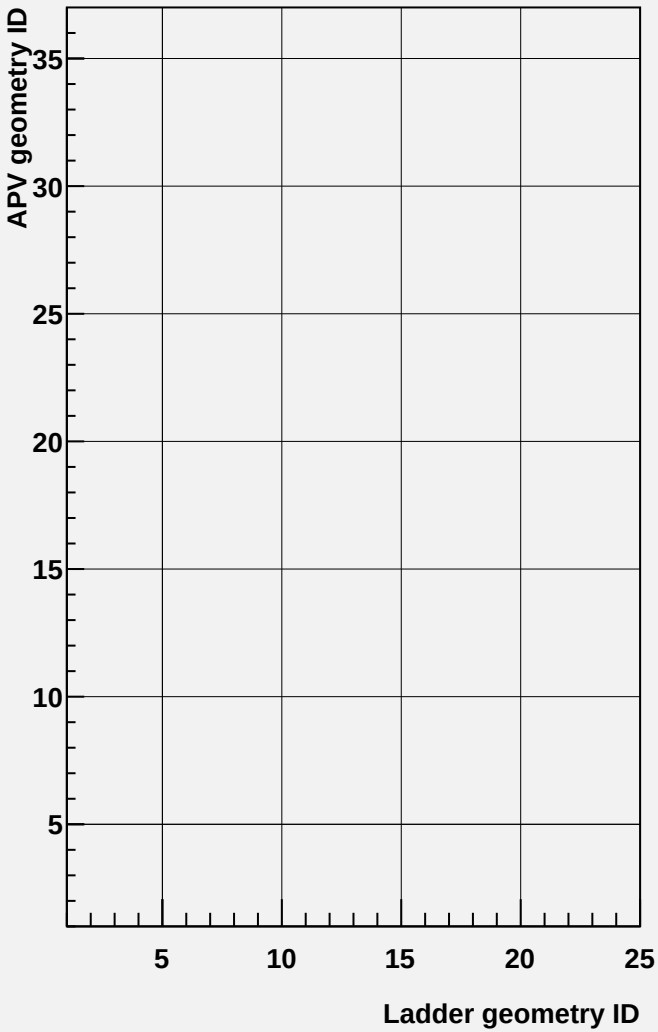
IST - Hit map in Ladder vs APV (non-ZS)



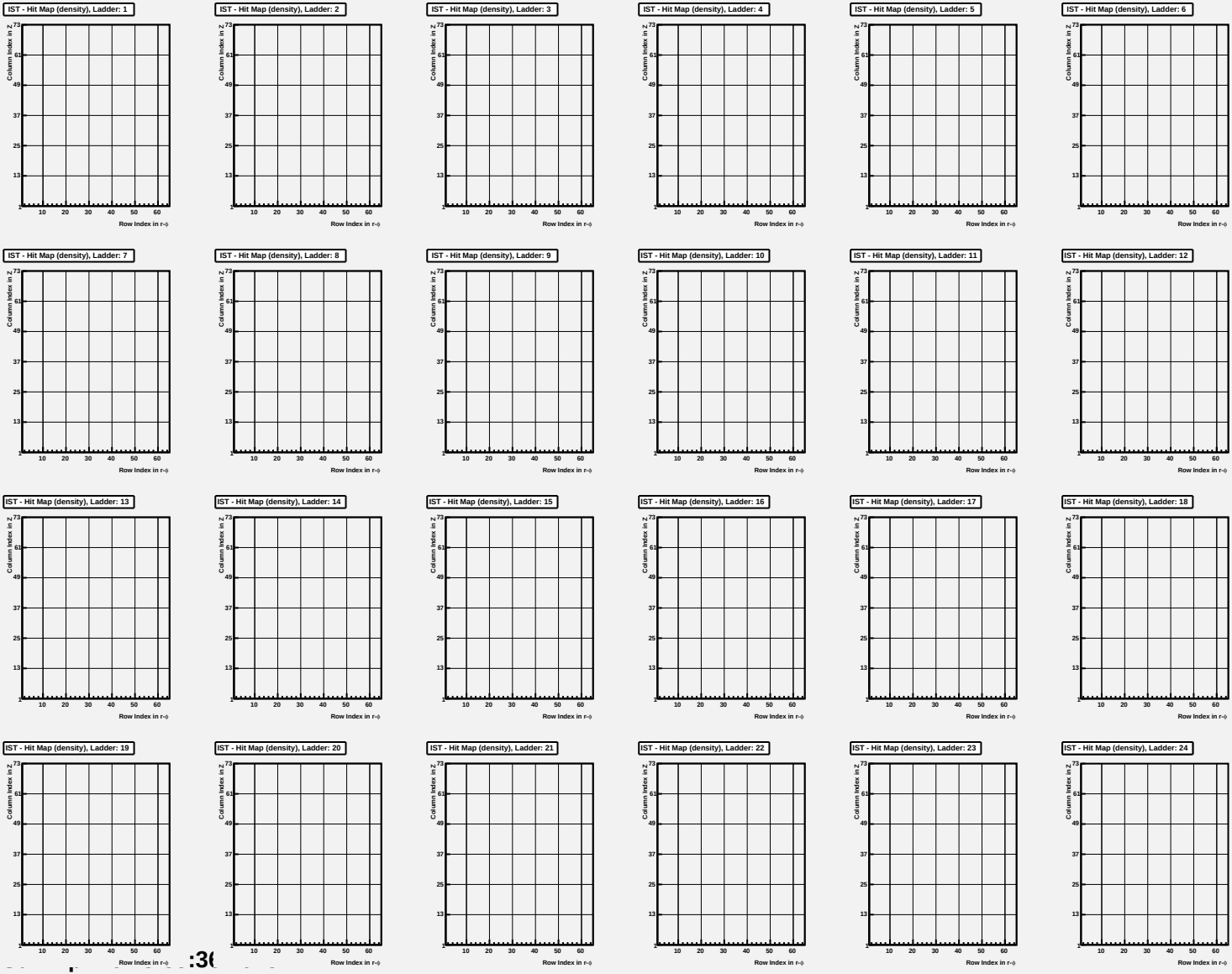
IST - Hit map (ZS)

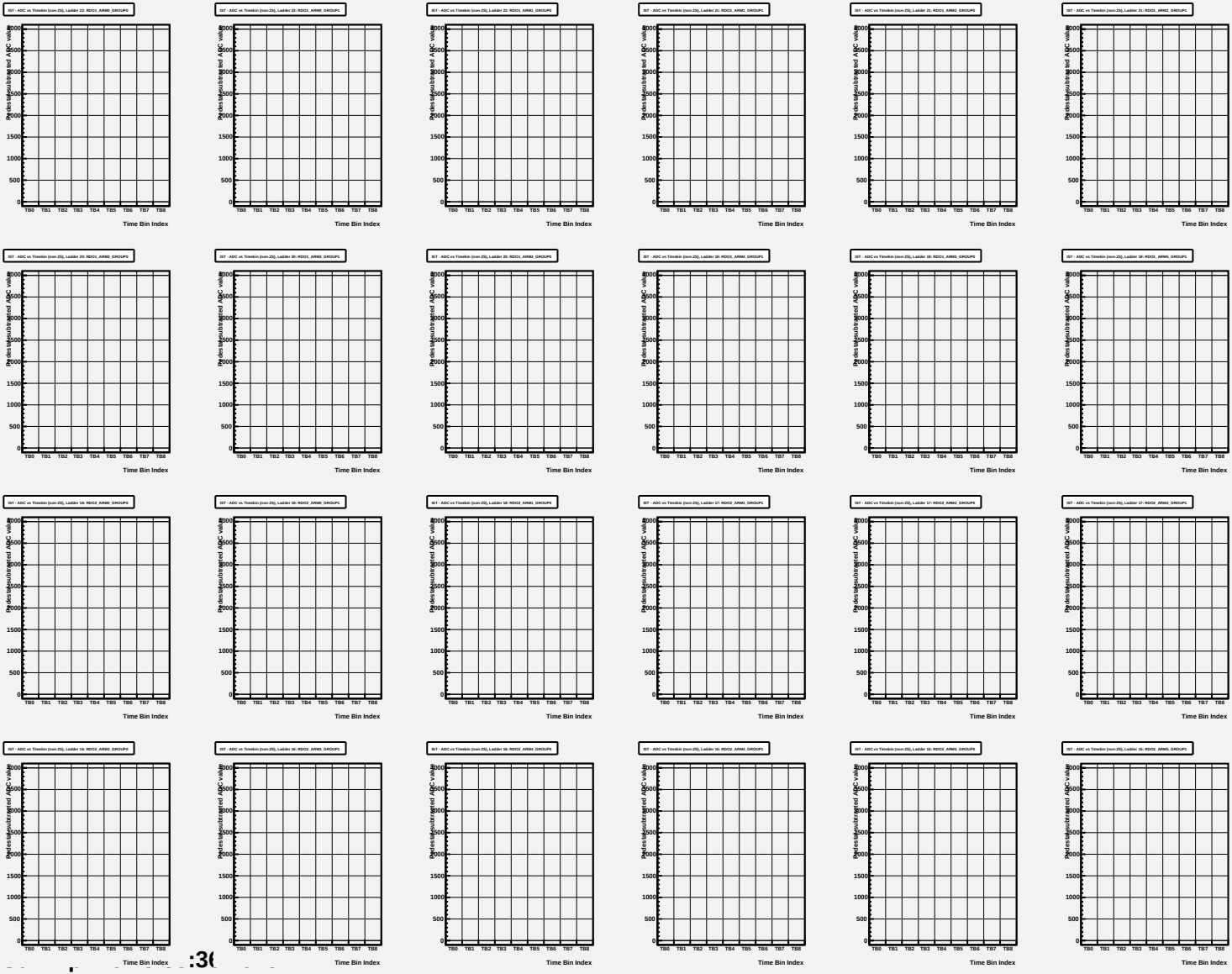


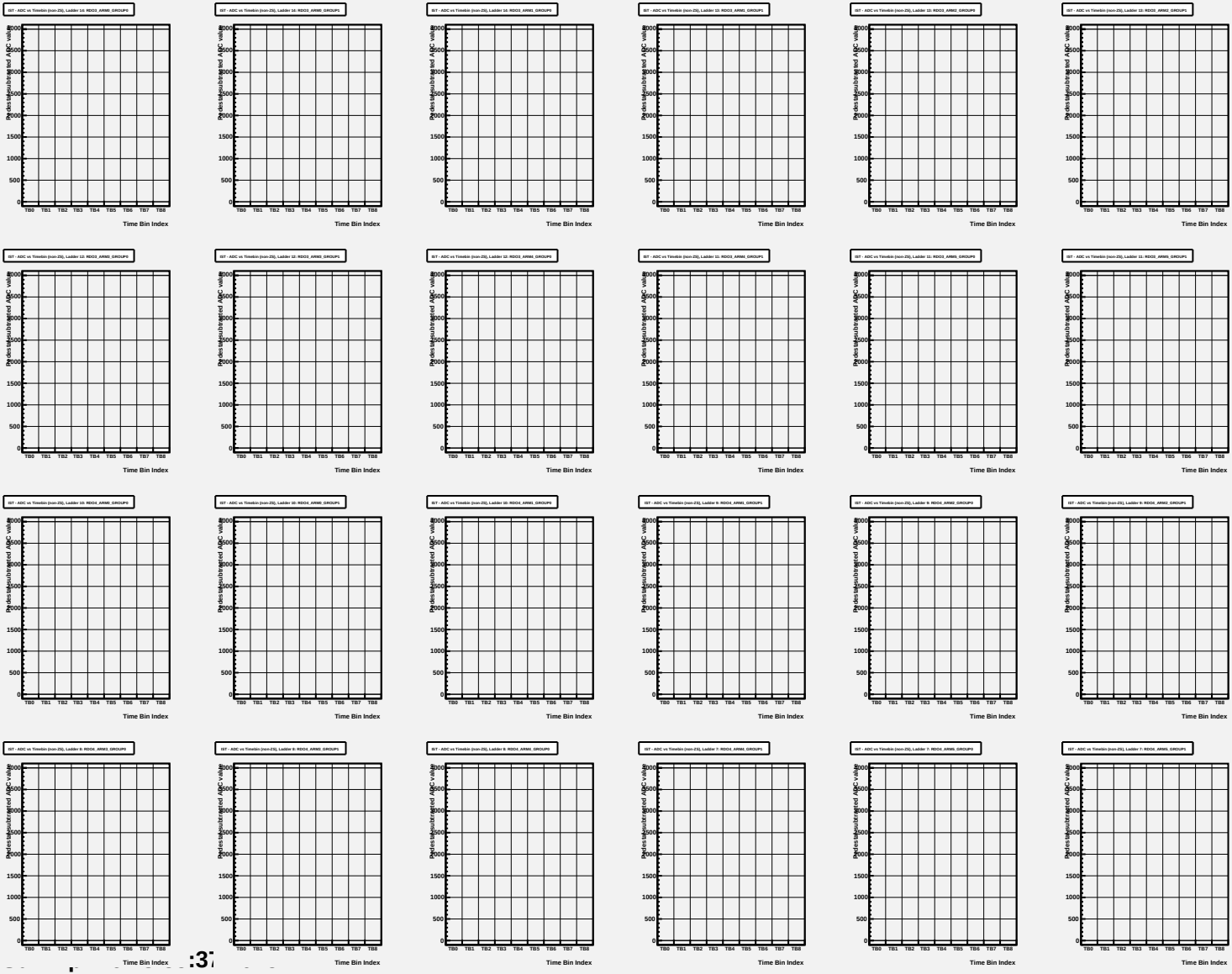
IST - Hit map in Ladder vs APV (ZS)

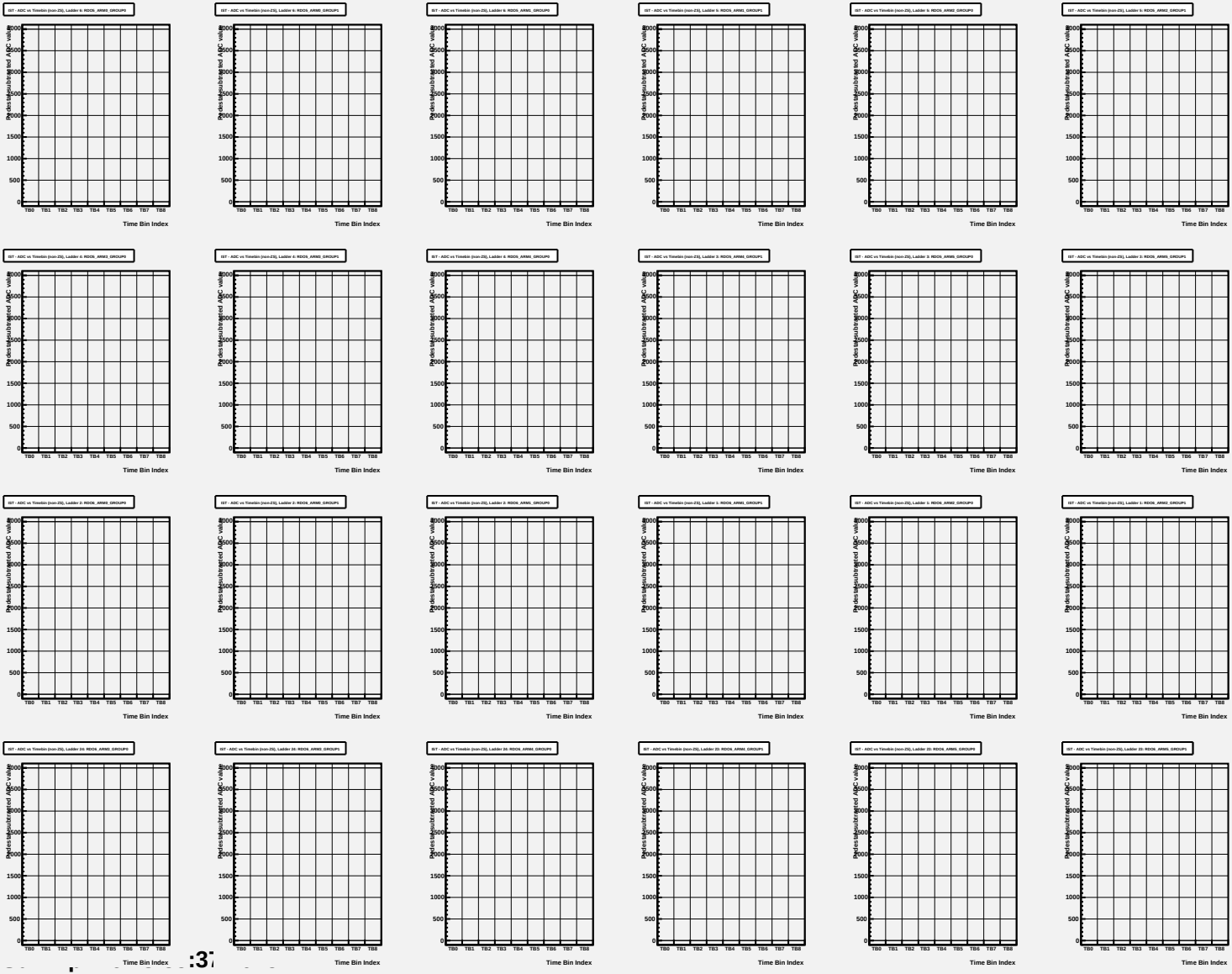


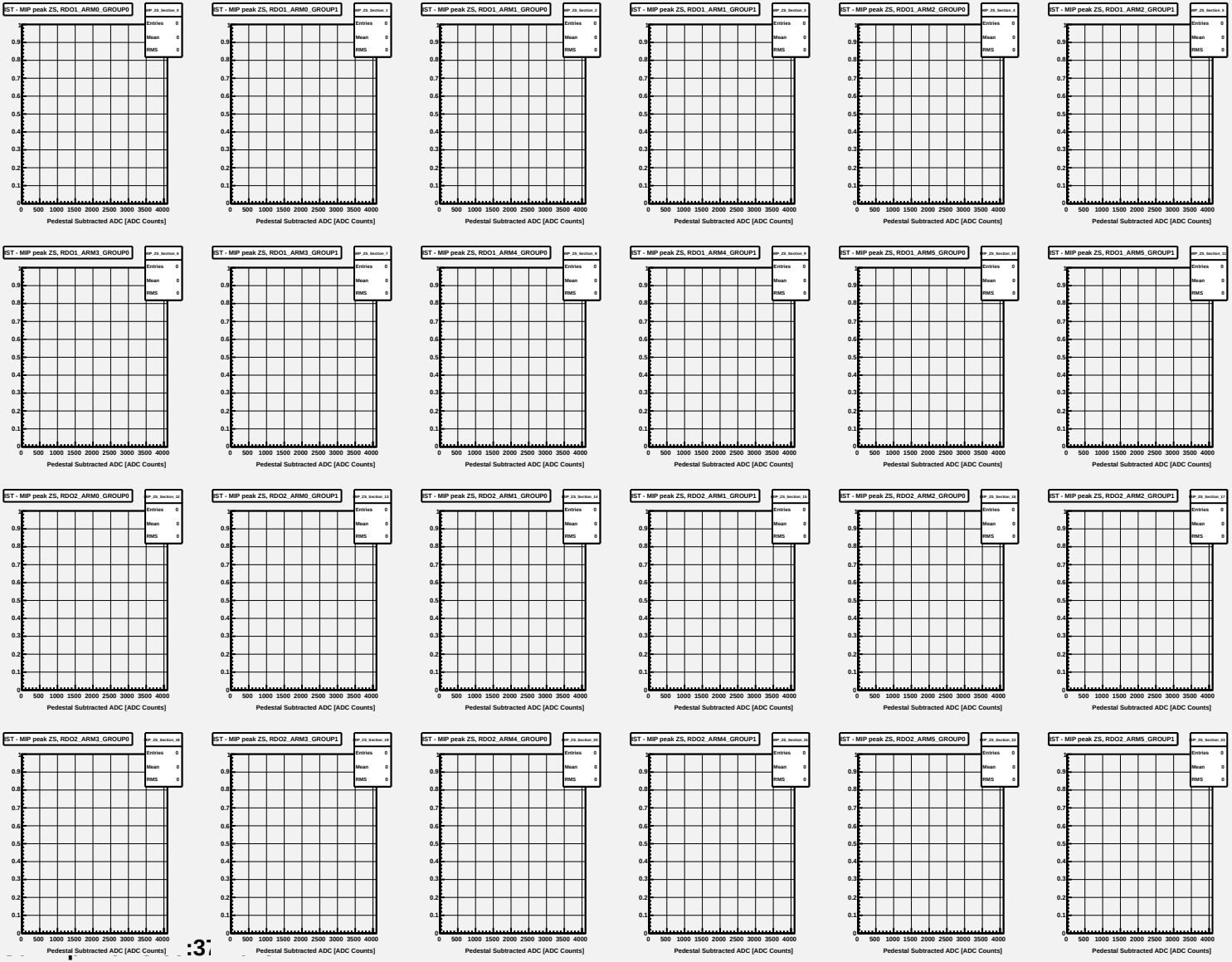
IST - ADC vs Channel Id, Ladder: 1
IST - ADC vs Channel Id, Ladder: 2
IST - ADC vs Channel Id, Ladder: 3
IST - ADC vs Channel Id, Ladder: 4
IST - ADC vs Channel Id, Ladder: 5
IST - ADC vs Channel Id, Ladder: 6
IST - ADC vs Channel Id, Ladder: 7
IST - ADC vs Channel Id, Ladder: 8
IST - ADC vs Channel Id, Ladder: 9
ST - ADC vs Channel Id, Ladder: 10
ST - ADC vs Channel Id, Ladder: 11
ST - ADC vs Channel Id, Ladder: 12
ST - ADC vs Channel Id, Ladder: 13
ST - ADC vs Channel Id, Ladder: 14
ST - ADC vs Channel Id, Ladder: 15
ST - ADC vs Channel Id, Ladder: 16
ST - ADC vs Channel Id, Ladder: 17
ST - ADC vs Channel Id, Ladder: 18
ST - ADC vs Channel Id, Ladder: 19
ST - ADC vs Channel Id, Ladder: 20
ST - ADC vs Channel Id, Ladder: 21
ST - ADC vs Channel Id, Ladder: 22
ST - ADC vs Channel Id, Ladder: 23
ST - ADC vs Channel Id, Ladder: 24
ADC value
Channel Electronics Index

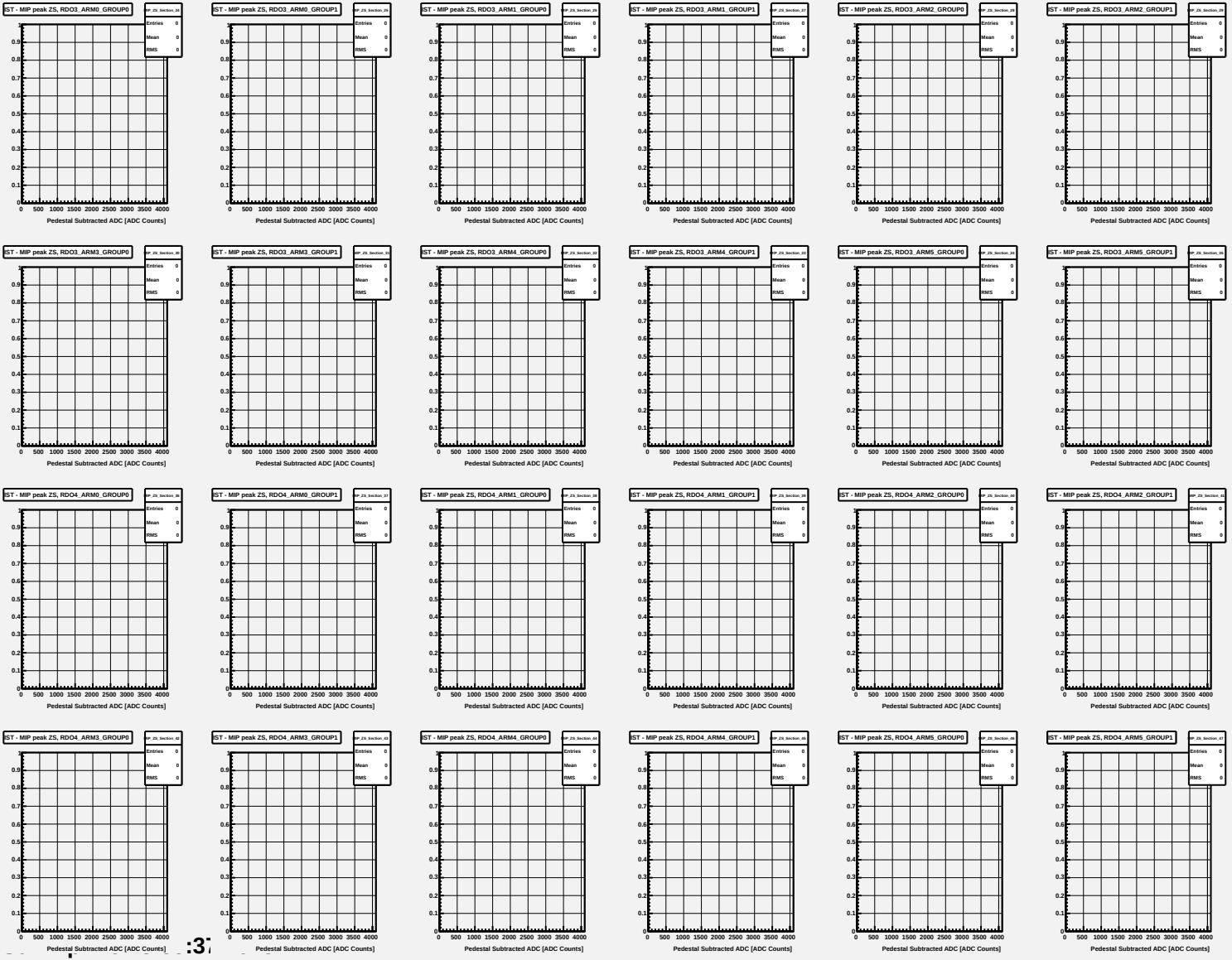

IST - Hit Map (density), Ladder: 1
IST - Hit Map (density), Ladder: 2
IST - Hit Map (density), Ladder: 3
IST - Hit Map (density), Ladder: 4
IST - Hit Map (density), Ladder: 5
IST - Hit Map (density), Ladder: 6
IST - Hit Map (density), Ladder: 7
IST - Hit Map (density), Ladder: 8
IST - Hit Map (density), Ladder: 9
IST - Hit Map (density), Ladder: 10
IST - Hit Map (density), Ladder: 11
IST - Hit Map (density), Ladder: 12
IST - Hit Map (density), Ladder: 13
IST - Hit Map (density), Ladder: 14
IST - Hit Map (density), Ladder: 15
IST - Hit Map (density), Ladder: 16
IST - Hit Map (density), Ladder: 17
IST - Hit Map (density), Ladder: 18
IST - Hit Map (density), Ladder: 19
IST - Hit Map (density), Ladder: 20
IST - Hit Map (density), Ladder: 21
IST - Hit Map (density), Ladder: 22
IST - Hit Map (density), Ladder: 23
IST - Hit Map (density), Ladder: 24
Column Index in Z
Row Index in r-ϕ
1
13
25
37
49
61
73
10
20
30
40
50
60

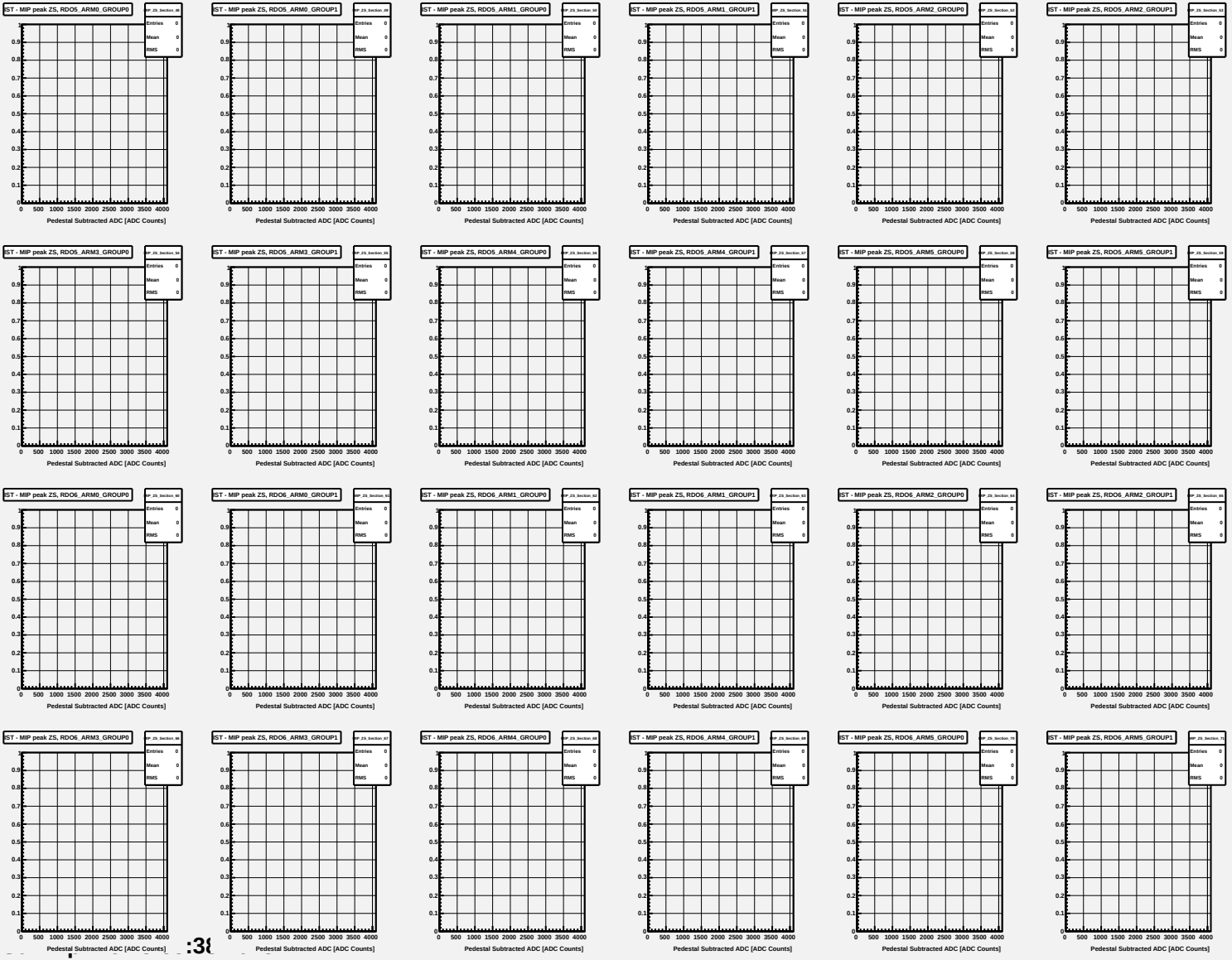

RIT - ADC vs Timestim (non-ZS), Ladder 22: RDO1_ARM0_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 22: RDO1_ARM0_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 22: RDO1_ARM1_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 21: RDO1_ARM1_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 21: RDO1_ARM2_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 21: RDO1_ARM2_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 20: RDO1_ARM3_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 20: RDO1_ARM3_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 20: RDO1_ARM4_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 19: RDO1_ARM4_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 19: RDO1_ARM5_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 19: RDO1_ARM5_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 18: RDO2_ARM0_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 18: RDO2_ARM0_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 18: RDO2_ARM1_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 17: RDO2_ARM1_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 17: RDO2_ARM2_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 17: RDO2_ARM2_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 16: RDO2_ARM3_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 16: RDO2_ARM3_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 16: RDO2_ARM4_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 15: RDO2_ARM4_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 15: RDO2_ARM5_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 15: RDO2_ARM5_GROUP1
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8
0 500 1000 1500 2000 2500 3000 3500

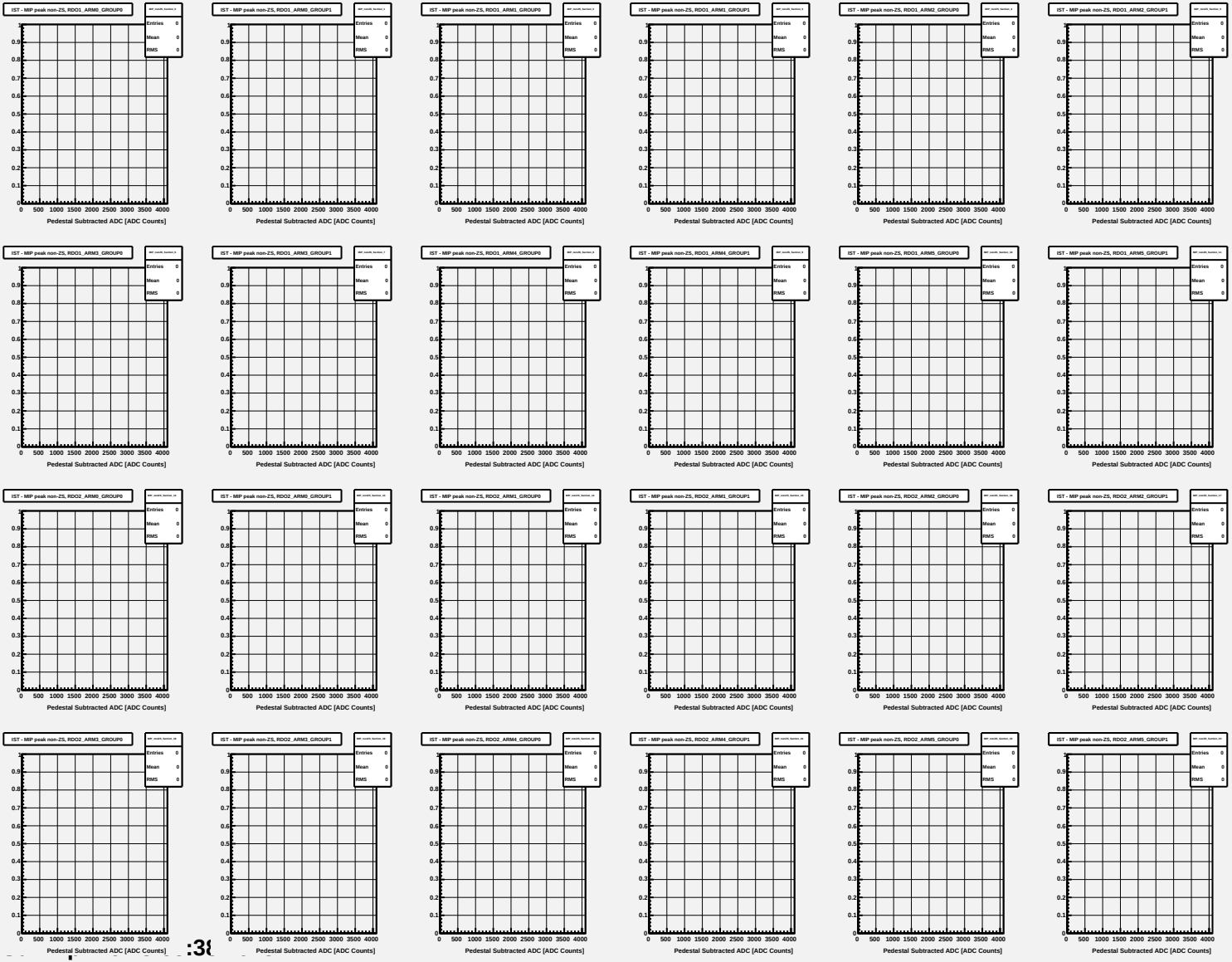

IST - ADC vs Timeslice (non-ZS), Ladder 16: RDO3_ARM0_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 14: RDO3_ARM0_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 14: RDO3_ARM1_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 13: RDO3_ARM1_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 13: RDO3_ARM2_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 13: RDO3_ARM2_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 12: RDO3_ARM0_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 12: RDO3_ARM0_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 12: RDO3_ARM1_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 11: RDO3_ARM1_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 11: RDO3_ARM0_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 11: RDO3_ARM0_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 10: RDO4_ARM0_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 10: RDO4_ARM0_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 10: RDO4_ARM1_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 9: RDO4_ARM1_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 9: RDO4_ARM2_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 9: RDO4_ARM2_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 8: RDO4_ARM3_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 8: RDO4_ARM3_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 8: RDO4_ARM4_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 7: RDO4_ARM4_GROUP1
IST - ADC vs Timeslice (non-ZS), Ladder 7: RDO4_ARM5_GROUP0
IST - ADC vs Timeslice (non-ZS), Ladder 7: RDO4_ARM5_GROUP1
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8
0 500 1000 1500 2000 2500 3000 3500

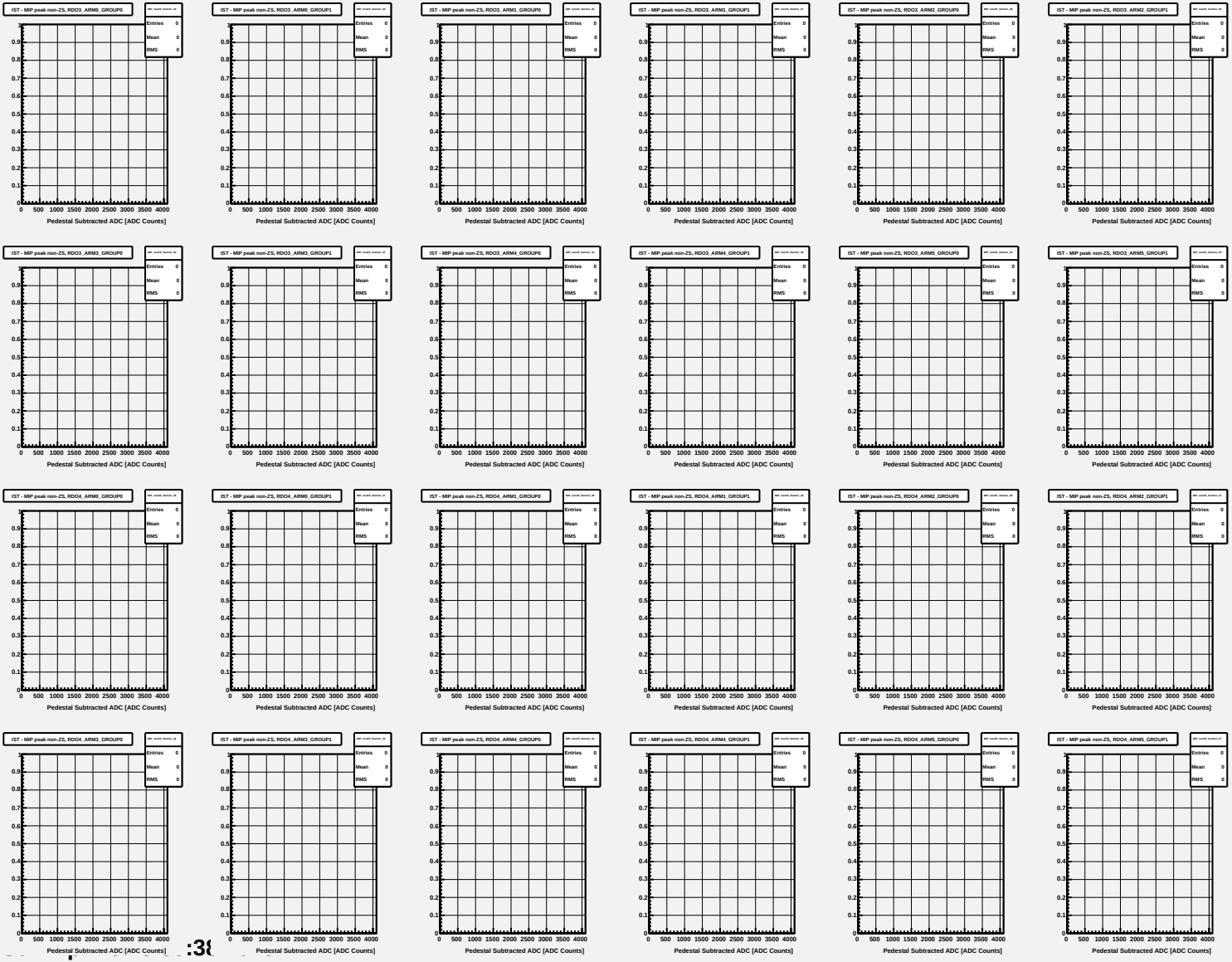

IST : ADC vs Timebin (non-ZS), Ladder 6: RDO6_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 6: RDO5_ARM3_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 6: RDO5_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM1_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO6_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM2_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO6_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM3_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO5_ARM1_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO6_ARM6_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO5_ARM6_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO6_ARM6_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO5_ARM6_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO5_ARM4_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO5_ARM4_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO6_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO5_ARM2_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO6_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO5_ARM3_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO5_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO5_ARM1_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO6_ARM6_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO5_ARM6_GROUP5
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8
0 500 1000 1500 2000 2500 3000 3500

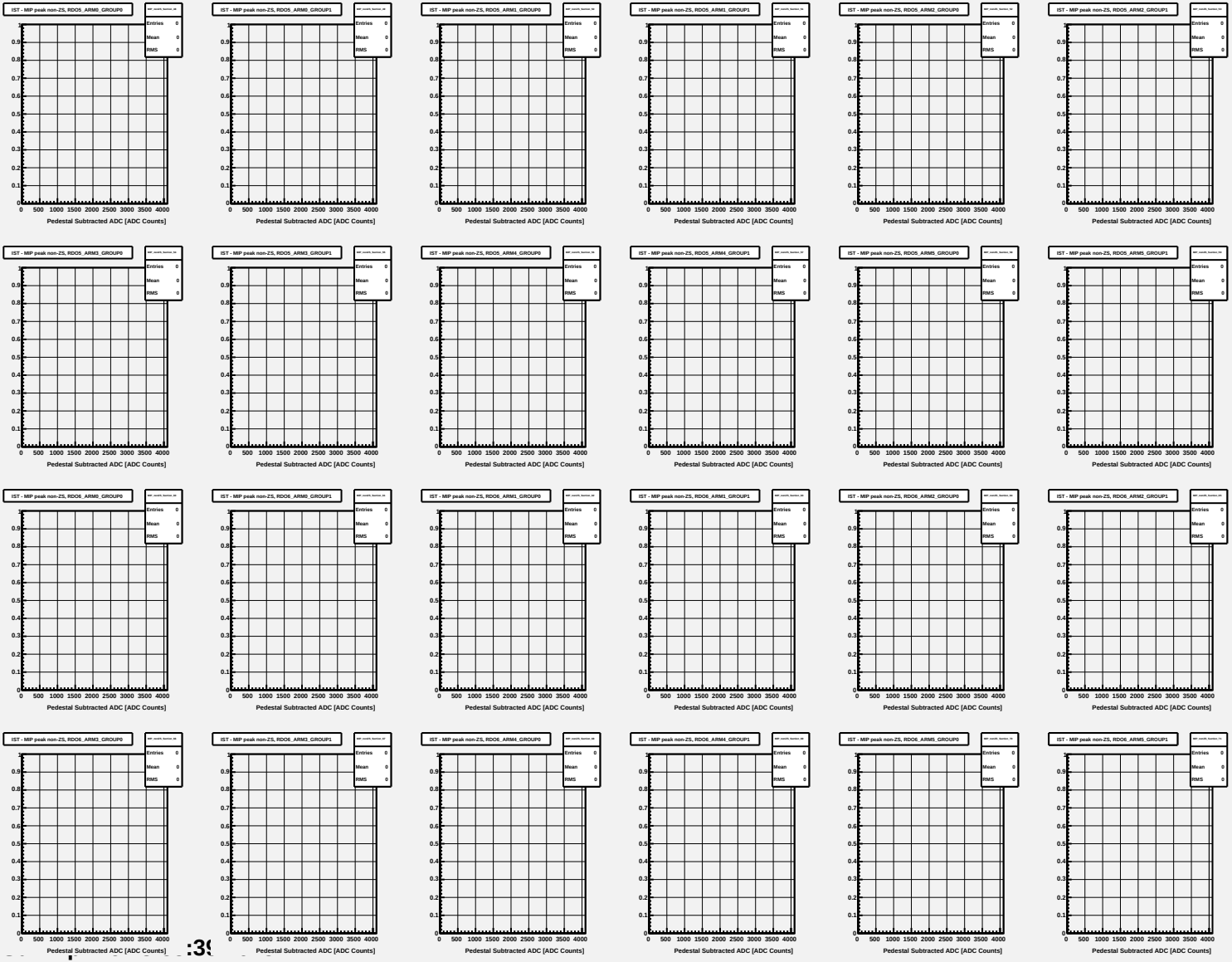

IST - MIP peak ZS, RDO1_ARM0_GROUP0
MIP_ZS_Section_0
IST - MIP peak ZS, RDO1_ARM0_GROUP1
MIP_ZS_Section_1
IST - MIP peak ZS, RDO1_ARM1_GROUP0
MIP_ZS_Section_2
IST - MIP peak ZS, RDO1_ARM1_GROUP1
MIP_ZS_Section_3
IST - MIP peak ZS, RDO1_ARM2_GROUP0
MIP_ZS_Section_4
IST - MIP peak ZS, RDO1_ARM2_GROUP1
MIP_ZS_Section_5
IST - MIP peak ZS, RDO1_ARM3_GROUP0
MIP_ZS_Section_6
IST - MIP peak ZS, RDO1_ARM3_GROUP1
MIP_ZS_Section_7
IST - MIP peak ZS, RDO1_ARM4_GROUP0
MIP_ZS_Section_8
IST - MIP peak ZS, RDO1_ARM4_GROUP1
MIP_ZS_Section_9
IST - MIP peak ZS, RDO1_ARM5_GROUP0
MIP_ZS_Section_10
IST - MIP peak ZS, RDO1_ARM5_GROUP1
MIP_ZS_Section_11
IST - MIP peak ZS, RDO2_ARM0_GROUP0
MIP_ZS_Section_12
IST - MIP peak ZS, RDO2_ARM0_GROUP1
MIP_ZS_Section_13
IST - MIP peak ZS, RDO2_ARM1_GROUP0
MIP_ZS_Section_14
IST - MIP peak ZS, RDO2_ARM1_GROUP1
MIP_ZS_Section_15
IST - MIP peak ZS, RDO2_ARM2_GROUP0
MIP_ZS_Section_16
IST - MIP peak ZS, RDO2_ARM2_GROUP1
MIP_ZS_Section_17
IST - MIP peak ZS, RDO2_ARM3_GROUP0
MIP_ZS_Section_18
IST - MIP peak ZS, RDO2_ARM3_GROUP1
MIP_ZS_Section_19
IST - MIP peak ZS, RDO2_ARM4_GROUP0
MIP_ZS_Section_20
IST - MIP peak ZS, RDO2_ARM4_GROUP1
MIP_ZS_Section_21
IST - MIP peak ZS, RDO2_ARM5_GROUP0
MIP_ZS_Section_22
IST - MIP peak ZS, RDO2_ARM5_GROUP1
MIP_ZS_Section_23
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]

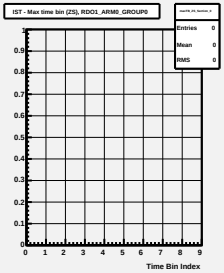

IST - MIP peak ZS, RDO3_ARM0_GROUP0
MIP_ZS_Section_24
IST - MIP peak ZS, RDO3_ARM0_GROUP1
MIP_ZS_Section_25
IST - MIP peak ZS, RDO3_ARM1_GROUP0
MIP_ZS_Section_26
IST - MIP peak ZS, RDO3_ARM1_GROUP1
MIP_ZS_Section_27
IST - MIP peak ZS, RDO3_ARM2_GROUP0
MIP_ZS_Section_28
IST - MIP peak ZS, RDO3_ARM2_GROUP1
MIP_ZS_Section_29
IST - MIP peak ZS, RDO3_ARM3_GROUP0
MIP_ZS_Section_30
IST - MIP peak ZS, RDO3_ARM3_GROUP1
MIP_ZS_Section_31
IST - MIP peak ZS, RDO3_ARM4_GROUP0
MIP_ZS_Section_32
IST - MIP peak ZS, RDO3_ARM4_GROUP1
MIP_ZS_Section_33
IST - MIP peak ZS, RDO3_ARM5_GROUP0
MIP_ZS_Section_34
IST - MIP peak ZS, RDO3_ARM5_GROUP1
MIP_ZS_Section_35
IST - MIP peak ZS, RDO4_ARM0_GROUP0
MIP_ZS_Section_36
IST - MIP peak ZS, RDO4_ARM0_GROUP1
MIP_ZS_Section_37
IST - MIP peak ZS, RDO4_ARM1_GROUP0
MIP_ZS_Section_38
IST - MIP peak ZS, RDO4_ARM1_GROUP1
MIP_ZS_Section_39
IST - MIP peak ZS, RDO4_ARM2_GROUP0
MIP_ZS_Section_40
IST - MIP peak ZS, RDO4_ARM2_GROUP1
MIP_ZS_Section_41
IST - MIP peak ZS, RDO4_ARM3_GROUP0
MIP_ZS_Section_42
IST - MIP peak ZS, RDO4_ARM3_GROUP1
MIP_ZS_Section_43
IST - MIP peak ZS, RDO4_ARM4_GROUP0
MIP_ZS_Section_44
IST - MIP peak ZS, RDO4_ARM4_GROUP1
MIP_ZS_Section_45
IST - MIP peak ZS, RDO4_ARM5_GROUP0
MIP_ZS_Section_46
IST - MIP peak ZS, RDO4_ARM5_GROUP1
MIP_ZS_Section_47
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]

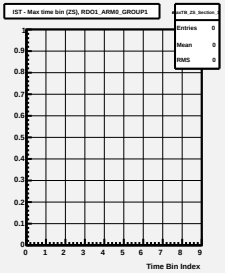

IST - MIP peak ZS, RDO5_ARM0_GROUP0
IST - MIP peak ZS, RDO5_ARM0_GROUP1
IST - MIP peak ZS, RDO5_ARM1_GROUP0
IST - MIP peak ZS, RDO5_ARM1_GROUP1
IST - MIP peak ZS, RDO5_ARM2_GROUP0
IST - MIP peak ZS, RDO5_ARM2_GROUP1
IST - MIP peak ZS, RDO5_ARM3_GROUP0
IST - MIP peak ZS, RDO5_ARM3_GROUP1
IST - MIP peak ZS, RDO5_ARM4_GROUP0
IST - MIP peak ZS, RDO5_ARM4_GROUP1
IST - MIP peak ZS, RDO5_ARM5_GROUP0
IST - MIP peak ZS, RDO5_ARM5_GROUP1
IST - MIP peak ZS, RDO6_ARM0_GROUP0
IST - MIP peak ZS, RDO6_ARM0_GROUP1
IST - MIP peak ZS, RDO6_ARM1_GROUP0
IST - MIP peak ZS, RDO6_ARM1_GROUP1
IST - MIP peak ZS, RDO6_ARM2_GROUP0
IST - MIP peak ZS, RDO6_ARM2_GROUP1
IST - MIP peak ZS, RDO6_ARM3_GROUP0
IST - MIP peak ZS, RDO6_ARM3_GROUP1
IST - MIP peak ZS, RDO6_ARM4_GROUP0
IST - MIP peak ZS, RDO6_ARM4_GROUP1
IST - MIP peak ZS, RDO6_ARM5_GROUP0
IST - MIP peak ZS, RDO6_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]


IST - MIP peak non-ZS, RDO1_ARM0_GROUP0
IST - MIP peak non-ZS, RDO1_ARM0_GROUP1
IST - MIP peak non-ZS, RDO1_ARM1_GROUP0
IST - MIP peak non-ZS, RDO1_ARM1_GROUP1
IST - MIP peak non-ZS, RDO1_ARM2_GROUP0
IST - MIP peak non-ZS, RDO1_ARM2_GROUP1
IST - MIP peak non-ZS, RDO1_ARM3_GROUP0
IST - MIP peak non-ZS, RDO1_ARM3_GROUP1
IST - MIP peak non-ZS, RDO1_ARM4_GROUP0
IST - MIP peak non-ZS, RDO1_ARM4_GROUP1
IST - MIP peak non-ZS, RDO1_ARM5_GROUP0
IST - MIP peak non-ZS, RDO1_ARM5_GROUP1
IST - MIP peak non-ZS, RDO2_ARM0_GROUP0
IST - MIP peak non-ZS, RDO2_ARM0_GROUP1
IST - MIP peak non-ZS, RDO2_ARM1_GROUP0
IST - MIP peak non-ZS, RDO2_ARM1_GROUP1
IST - MIP peak non-ZS, RDO2_ARM2_GROUP0
IST - MIP peak non-ZS, RDO2_ARM2_GROUP1
IST - MIP peak non-ZS, RDO2_ARM3_GROUP0
IST - MIP peak non-ZS, RDO2_ARM3_GROUP1
IST - MIP peak non-ZS, RDO2_ARM4_GROUP0
IST - MIP peak non-ZS, RDO2_ARM4_GROUP1
IST - MIP peak non-ZS, RDO2_ARM5_GROUP0
IST - MIP peak non-ZS, RDO2_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]


IST - MIP peak non-ZS, RDO3_ARM0_GROUP0
IST - MIP peak non-ZS, RDO3_ARM0_GROUP1
IST - MIP peak non-ZS, RDO3_ARM1_GROUP0
IST - MIP peak non-ZS, RDO3_ARM1_GROUP1
IST - MIP peak non-ZS, RDO3_ARM2_GROUP0
IST - MIP peak non-ZS, RDO3_ARM2_GROUP1
IST - MIP peak non-ZS, RDO3_ARM3_GROUP0
IST - MIP peak non-ZS, RDO3_ARM3_GROUP1
IST - MIP peak non-ZS, RDO3_ARM4_GROUP0
IST - MIP peak non-ZS, RDO3_ARM4_GROUP1
IST - MIP peak non-ZS, RDO3_ARM5_GROUP0
IST - MIP peak non-ZS, RDO3_ARM5_GROUP1
IST - MIP peak non-ZS, RDO4_ARM0_GROUP0
IST - MIP peak non-ZS, RDO4_ARM0_GROUP1
IST - MIP peak non-ZS, RDO4_ARM1_GROUP0
IST - MIP peak non-ZS, RDO4_ARM1_GROUP1
IST - MIP peak non-ZS, RDO4_ARM2_GROUP0
IST - MIP peak non-ZS, RDO4_ARM2_GROUP1
IST - MIP peak non-ZS, RDO4_ARM3_GROUP0
IST - MIP peak non-ZS, RDO4_ARM3_GROUP1
IST - MIP peak non-ZS, RDO4_ARM4_GROUP0
IST - MIP peak non-ZS, RDO4_ARM4_GROUP1
IST - MIP peak non-ZS, RDO4_ARM5_GROUP0
IST - MIP peak non-ZS, RDO4_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]


IST - MIP peak non-ZS, RD05_ARM0_GROUP0
IST - MIP peak non-ZS, RD05_ARM0_GROUP1
IST - MIP peak non-ZS, RD05_ARM1_GROUP0
IST - MIP peak non-ZS, RD05_ARM1_GROUP1
IST - MIP peak non-ZS, RD05_ARM2_GROUP0
IST - MIP peak non-ZS, RD05_ARM2_GROUP1
IST - MIP peak non-ZS, RD05_ARM3_GROUP0
IST - MIP peak non-ZS, RD05_ARM3_GROUP1
IST - MIP peak non-ZS, RD05_ARM4_GROUP0
IST - MIP peak non-ZS, RD05_ARM4_GROUP1
IST - MIP peak non-ZS, RD05_ARM5_GROUP0
IST - MIP peak non-ZS, RD05_ARM5_GROUP1
IST - MIP peak non-ZS, RD06_ARM0_GROUP0
IST - MIP peak non-ZS, RD06_ARM0_GROUP1
IST - MIP peak non-ZS, RD06_ARM1_GROUP0
IST - MIP peak non-ZS, RD06_ARM1_GROUP1
IST - MIP peak non-ZS, RD06_ARM2_GROUP0
IST - MIP peak non-ZS, RD06_ARM2_GROUP1
IST - MIP peak non-ZS, RD06_ARM3_GROUP0
IST - MIP peak non-ZS, RD06_ARM3_GROUP1
IST - MIP peak non-ZS, RD06_ARM4_GROUP0
IST - MIP peak non-ZS, RD06_ARM4_GROUP1
IST - MIP peak non-ZS, RD06_ARM5_GROUP0
IST - MIP peak non-ZS, RD06_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]


IST - Max time bin (ZS), RDO1_ARM0_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index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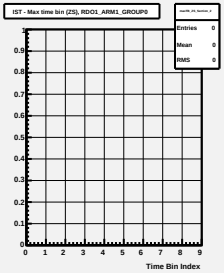
Mean 0
RMS 0
Time Bin Index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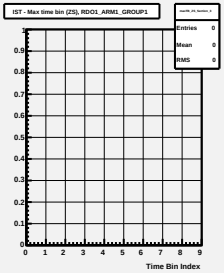
Mean 0
RMS 0
Time Bin Index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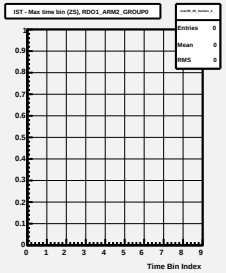
Entries 0
Mean 0
RMS 0
Time Bin Index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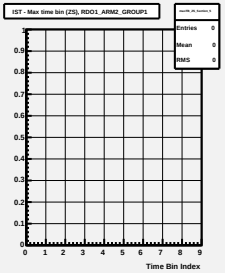
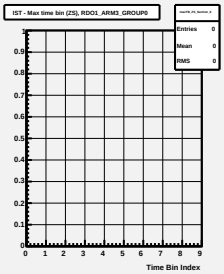
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO1_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index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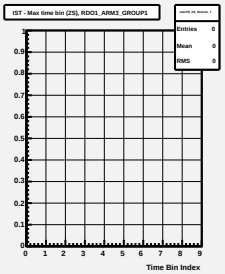
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO1_ARM3_GROUP1
Entries 0
Mean 0
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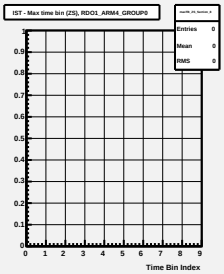
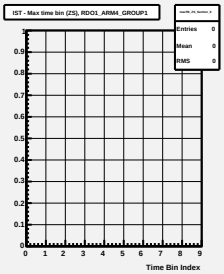
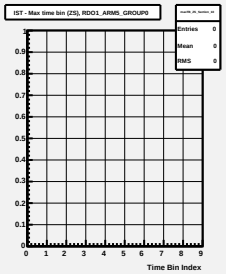
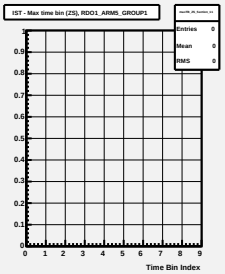
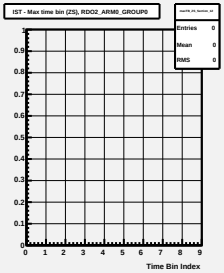
Time Bin Index

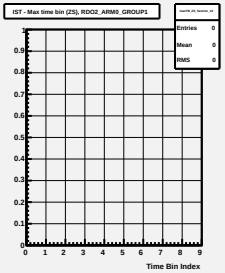

IST - Max time bin (ZS), RDO1_ARM4_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

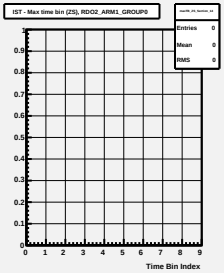

IST - Max time bin (ZS), RDO1_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

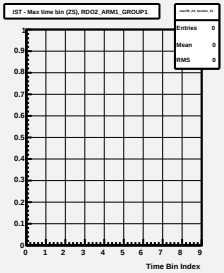

IST - Max time bin (ZS), RDO1_ARM5_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

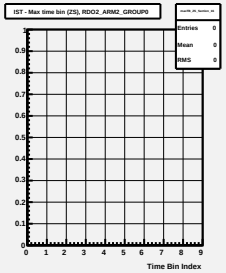

IST - Max time bin (ZS), RDO1_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM0_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM0_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM1_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM1_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index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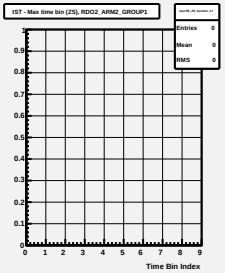
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM2_GROUP1
Entries 0
Mean 0
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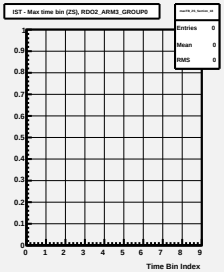
Time Bin Index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Mean 0
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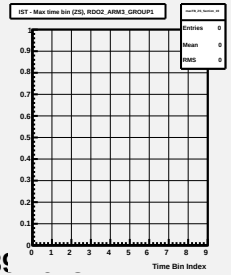
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM3_GROUP1
Entries 0
Mean 0
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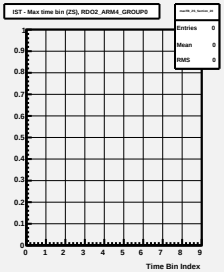
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM4_GROUP0
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Mean 0
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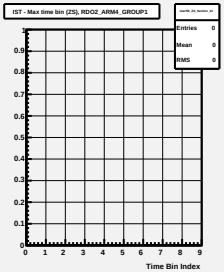
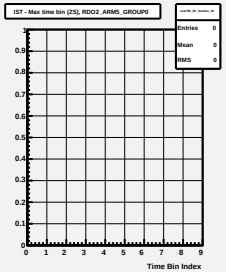
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM5_GROUP0
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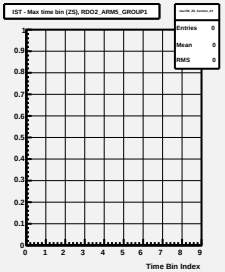
Mean 0
RMS 0
Time Bin Index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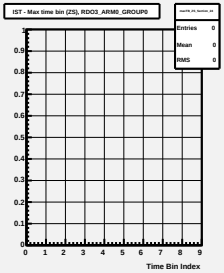
Mean 0
RMS 0
Time Bin Index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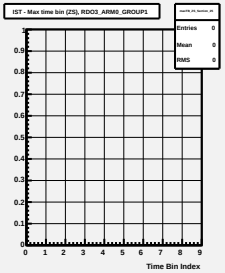
Mean 0
RMS 0
Time Bin Index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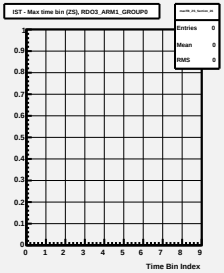
Entries 0
Mean 0
RMS 0
Time Bin Index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Entries 0
Mean 0
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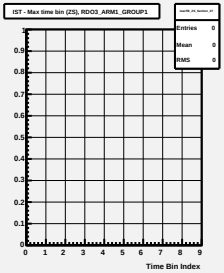
Time Bin Index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Entries 0
Mean 0
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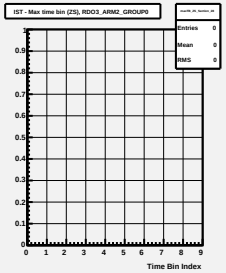
Time Bin Index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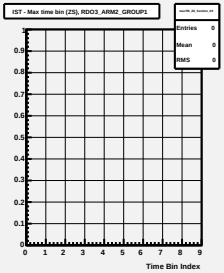
Entries 0
Mean 0
RMS 0
Time Bin Index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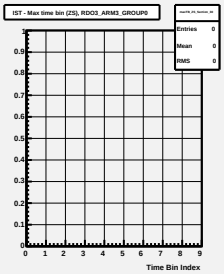
Time Bin Index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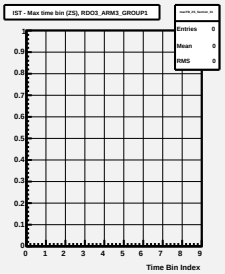
Time Bin Index


IST - Max time bin (ZS), RDO3_ARM3_GROUP1
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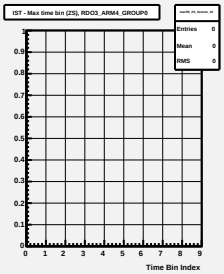
Time Bin Index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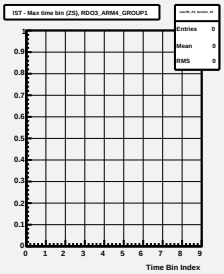
Time Bin Index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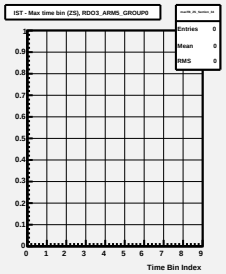
Time Bin Index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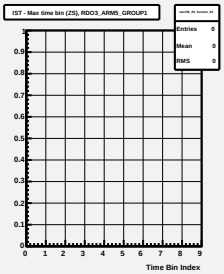
Time Bin Index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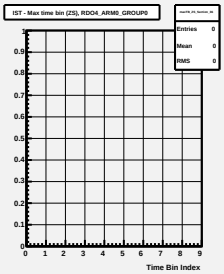
Time Bin Index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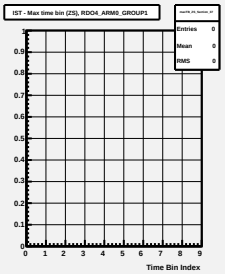
Mean 0
RMS 0
Time Bin Index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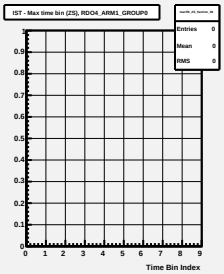
Time Bin Index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Entries 0
Mean 0
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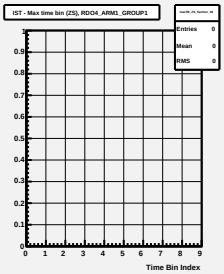
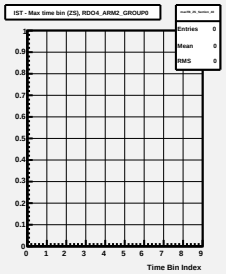
Time Bin Index


IST - Max time bin (ZS), RDO4_ARM1_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index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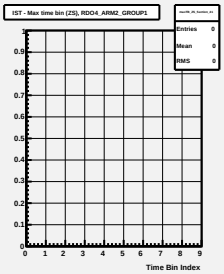
Entries 0
Mean 0
RMS 0
Time Bin Index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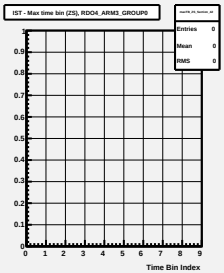
Time Bin Index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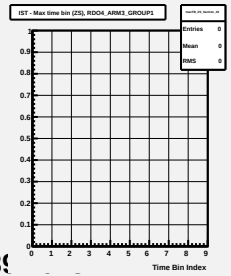
RMS 0
Time Bin Index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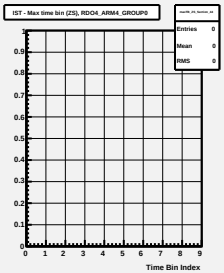
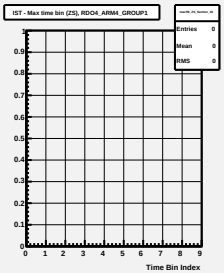
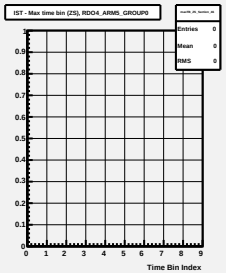
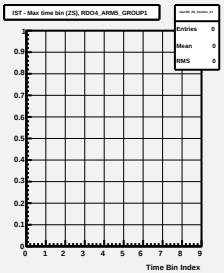
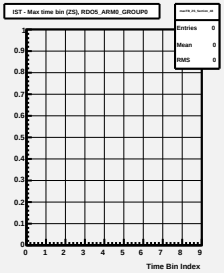
Mean 0
RMS 0
Time Bin Index

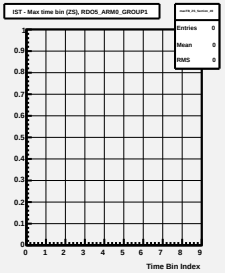

IST - Max time bin (ZS), RDO4_ARM4_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

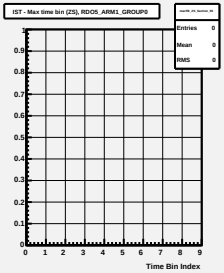

IST - Max time bin (ZS), RDO4_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

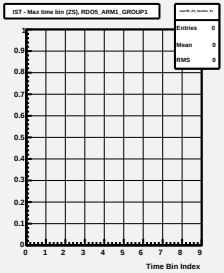

IST - Max time bin (ZS), RDO4_ARM5_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

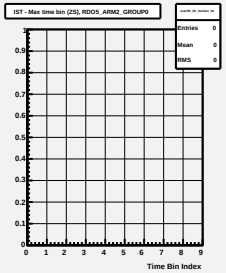

IST - Max time bin (ZS), RDO4_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

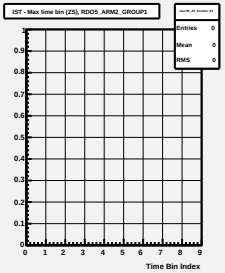

IST - Max time bin (ZS), RDO5_ARM0_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

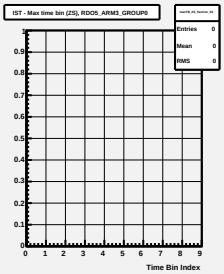

IST - Max time bin (ZS), RDO5_ARM0_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

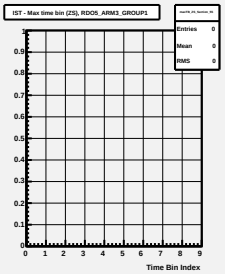

IST - Max time bin (ZS), RDO5_ARM1_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

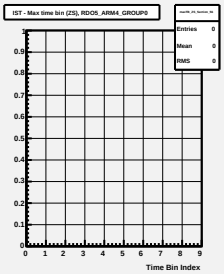

IST - Max time bin (ZS), RDO5_ARM1_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

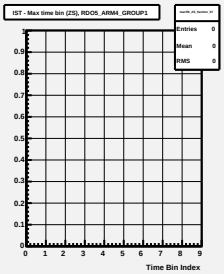

IST - Max time bin (ZS), RDO5_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

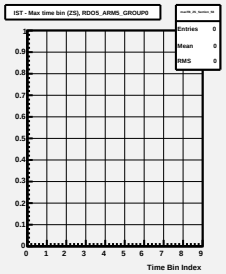

IST - Max time bin (ZS), RDO5_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

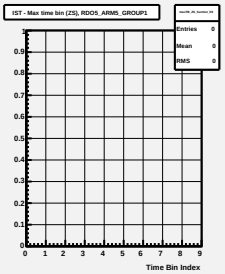

IST - Max time bin (ZS), RDO5_ARM3_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

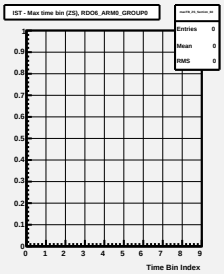

IST - Max time bin (ZS), RDO5_ARM3_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

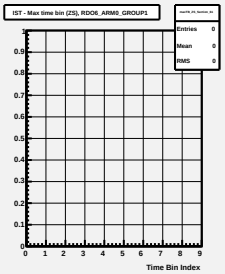

IST - Max time bin (ZS), RDO5_ARM4_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

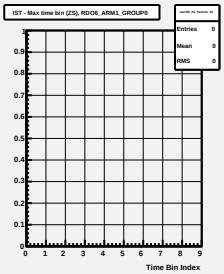

IST - Max time bin (ZS), RDO5_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

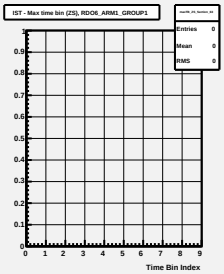

IST - Max time bin (ZS), RDO5_ARM5_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

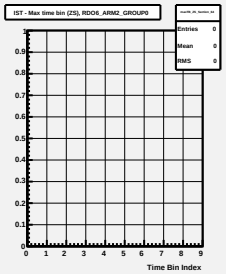

IST - Max time bin (ZS), RDO5_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

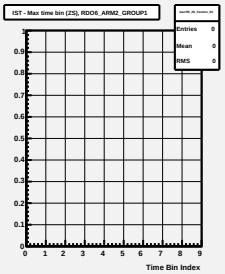

IST - Max time bin (ZS), RDO6_ARM0_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

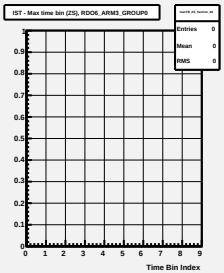

IST - Max time bin (ZS), RDO6_ARM0_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

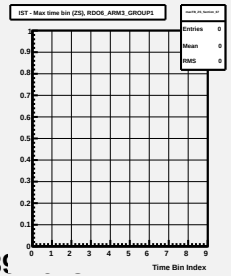

IST - Max time bin (ZS), RDO6_ARM1_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

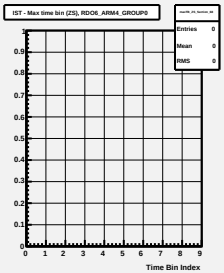

IST - Max time bin (ZS), RDO6_ARM1_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

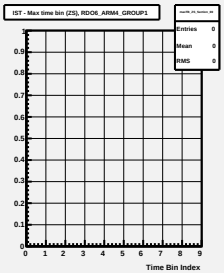

IST - Max time bin (ZS), RDO6_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

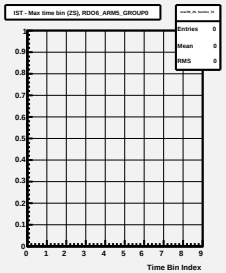

IST - Max time bin (ZS), RDO6_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

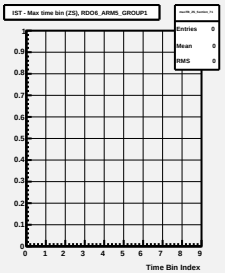

IST - Max time bin (ZS), RDO6_ARM3_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM3_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM4_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM5_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

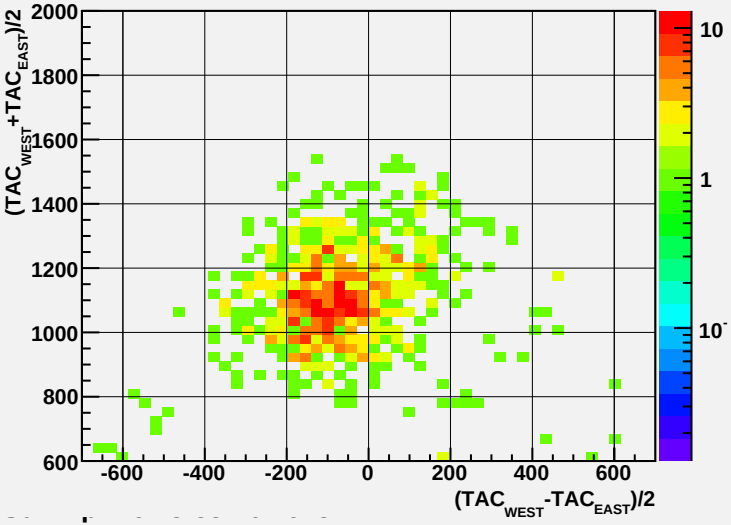
PMT_STATUS <ADC>

	E1U	E1D	E2U	E2D	W1U	W1D	W2U	W2D
PMT2	49.41	67.90	55.35	49.47	62.97	53.62	58.28	55.70
PMT1	53.93	38.83	64.93	67.86	54.51	77.30	46.88	52.34

SVX_STATUS <ADC>

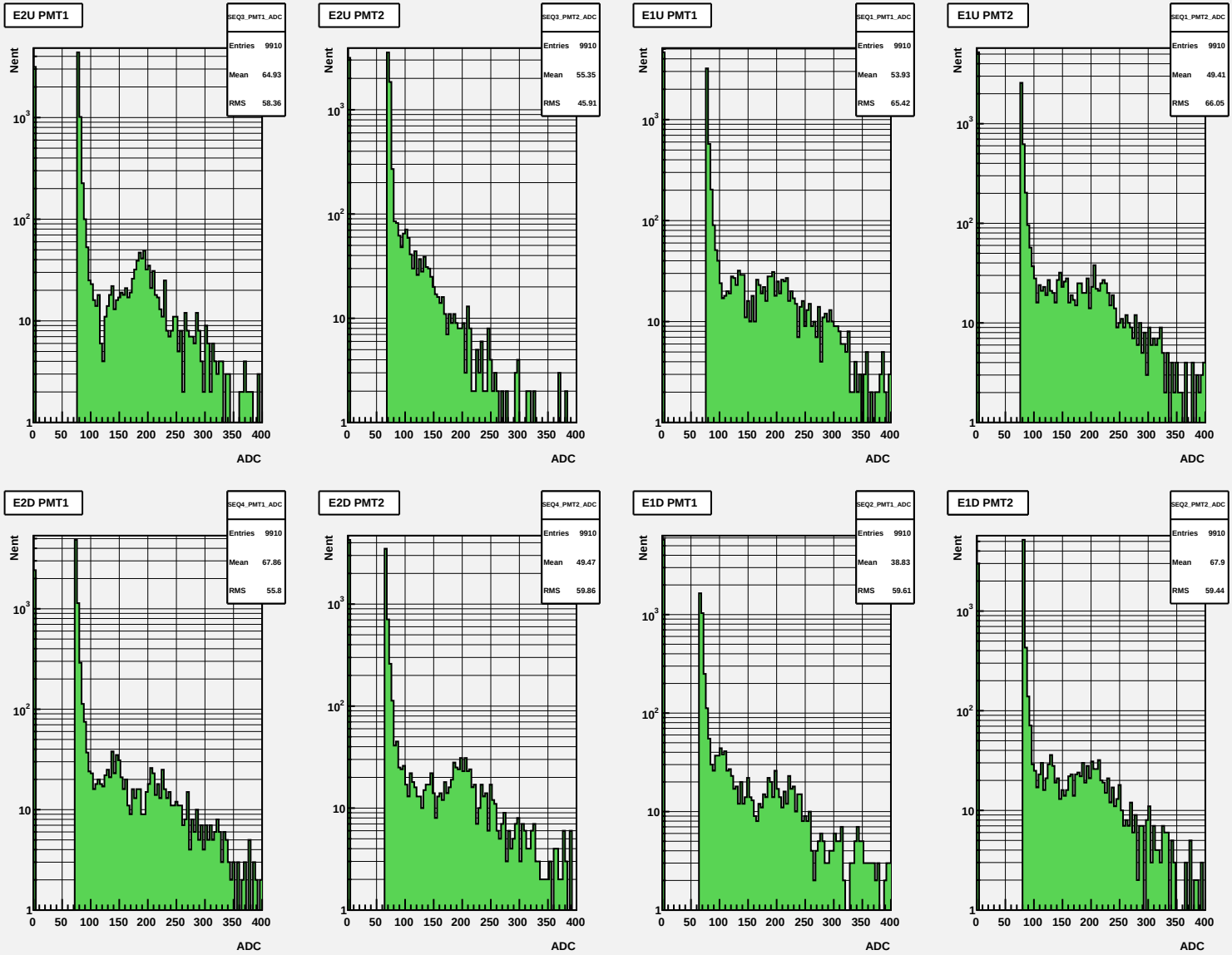
	SVX0	SVX1	SVX2	SVX3	SVX4	SVX5
W2D_D	0.07	0.07	0.06	0.05	0.07	0.05
W2D_C	0.07	0.07	0.07	0.05		
W2D_B	0.06	0.08	0.09	0.05	0.11	0.04
W2D_A	0.10	0.09	0.07	0.06		
W2U_D	0.06	0.07	0.07	0.08	0.06	0.07
W2U_C	0.08	0.07	0.06	0.05		
W2U_B	0.08	0.14	0.10	0.07	0.09	0.05
W2U_A	0.05	0.05	0.05	0.04		
W1D_D	0.07	0.09	0.08	0.09	0.08	0.04
W1D_C	0.11	0.08	0.06	0.05		
W1D_B	0.08	0.07	0.09	0.07	0.13	0.06
W1D_A	0.08	0.05	0.07	0.05		
W1U_D	0.12	0.18	0.11	0.11	0.18	0.06
W1U_C	0.10	0.07	0.07	0.07		
W1U_B	0.08	0.21	0.13	0.13	0.12	0.07
W1U_A	0.07	0.08	0.09	0.06		
E2D_D	0.04	0.06	0.06	0.06	0.07	0.03
E2D_C	0.10	0.11	0.07	0.07		
E2D_B	0.04	0.06	0.05	0.07	0.08	0.04
E2D_A	0.06	0.04	0.06	0.05		
E2U_D	0.00	0.00	0.00	0.00	0.00	0.00
E2U_C	0.11	0.07	0.06	0.05		
E2U_B	0.04	0.04	0.05	0.07	0.06	0.04
E2U_A	0.08	0.10	0.06			
E1D_D	0.04	0.05	0.05	0.04	0.06	0.05
E1D_C	0.08	0.08	0.08	0.06		
E1D_B	0.03	0.06	0.05	0.06	0.05	0.04
E1D_A	0.09	0.07	0.04	0.04		
E1U_D	0.17	0.14	0.12	0.10	0.09	0.08
E1U_C	0.09	0.07	0.05	0.04		
E1U_B	0.08	0.11	0.07	0.10	0.11	0.06
E1U_A	0.09	0.07	0.08	0.06		

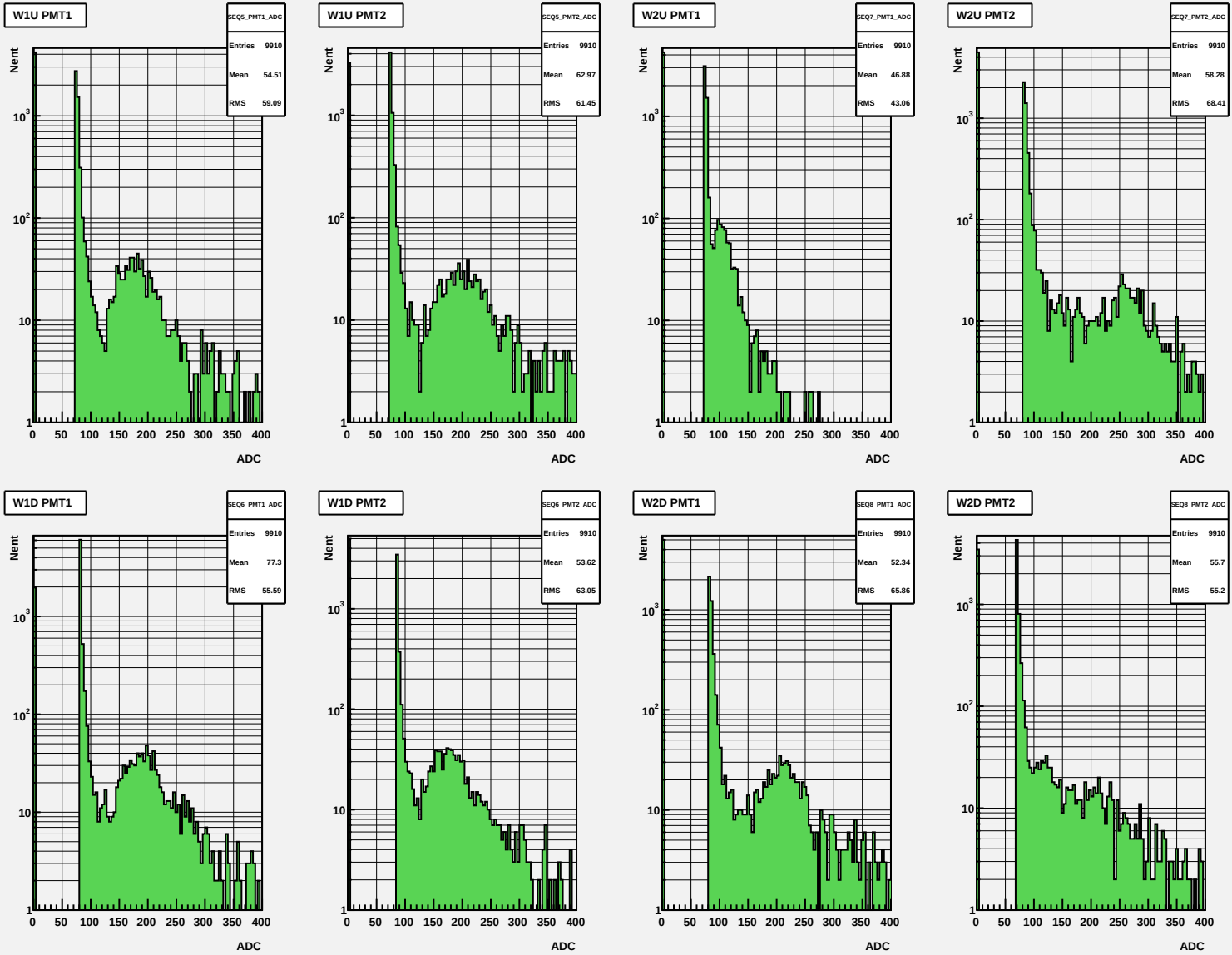
PMT Time vs z-vertex

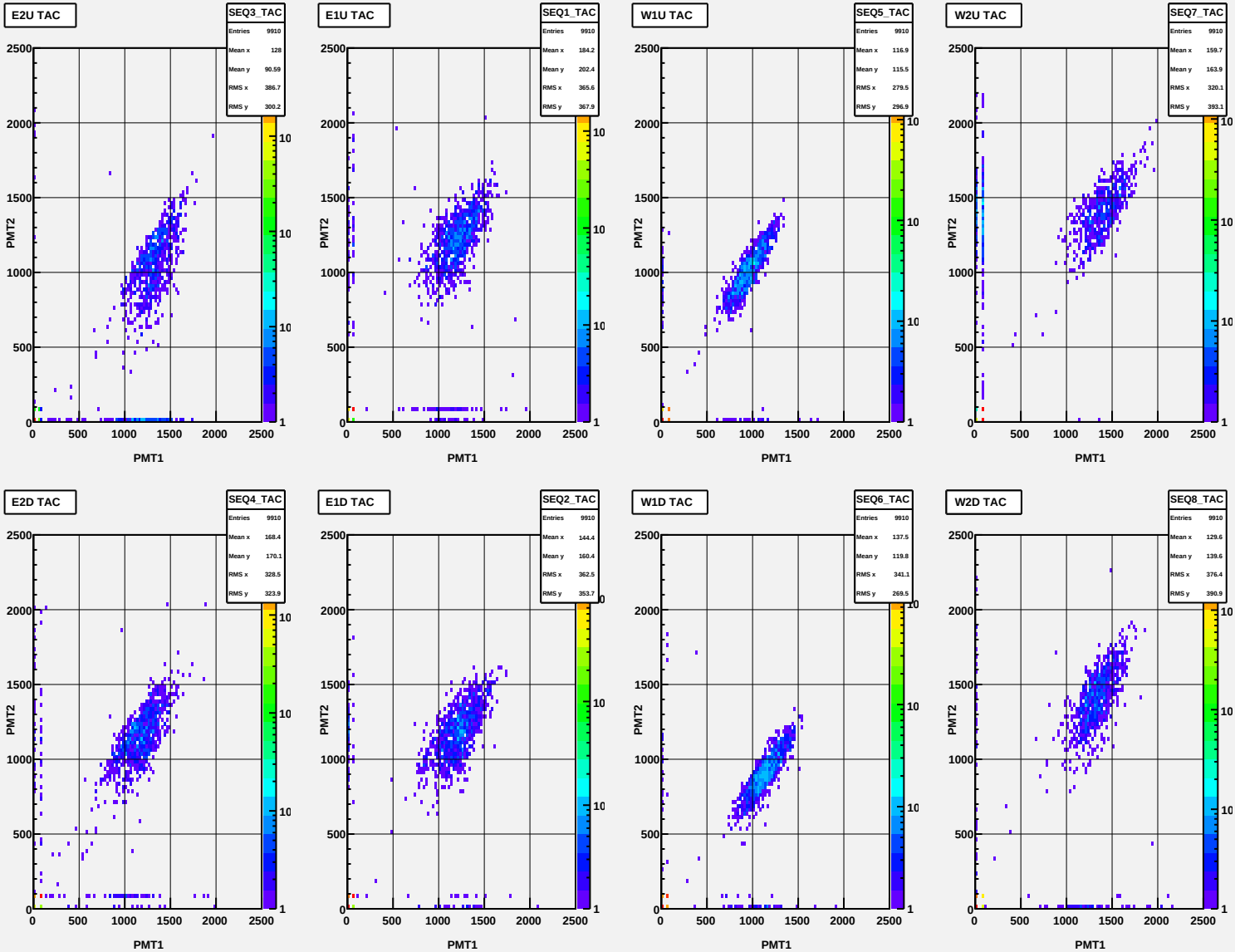


SVX_NCH <average fraction of chnls read>

	SVX0	SVX1	SVX2	SVX3	SVX4	SVX5
W2D_D	0.00	0.00	0.00	0.00	0.00	0.00
W2D_C	0.00	0.00	0.00	0.00		
W2D_B	0.00	0.00	0.00	0.00	0.00	0.00
W2D_A	0.00	0.00	0.00	0.00		
W2U_D	0.00	0.00	0.00	0.00	0.00	0.00
W2U_C	0.00	0.00	0.00	0.00		
W2U_B	0.00	0.00	0.00	0.00	0.00	0.00
W2U_A	0.00	0.00	0.00	0.00		
W1D_D	0.00	0.00	0.00	0.00	0.00	0.00
W1D_C	0.00	0.00	0.00	0.00		
W1D_B	0.00	0.00	0.00	0.00	0.00	0.00
W1D_A	0.00	0.00	0.00	0.00		
W1U_D	0.00	0.00	0.00	0.00	0.00	0.00
W1U_C	0.00	0.00	0.00	0.00		
W1U_B	0.00	0.00	0.00	0.00	0.00	0.00
W1U_A	0.00	0.00	0.00	0.00		
E2D_D	0.00	0.00	0.00	0.00	0.00	0.00
E2D_C	0.00	0.00	0.00	0.00		
E2D_B	0.00	0.00	0.00	0.00	0.00	0.00
E2D_A	0.00	0.00	0.00	0.00		
E2U_D	0.00	0.00	0.00	0.00	0.00	0.00
E2U_C	0.00	0.00	0.00	0.00		
E2U_B	0.00	0.00	0.00	0.00	0.00	0.00
E2U_A	0.00	0.00	0.00			
E1D_D	0.00	0.00	0.00	0.00	0.00	0.00
E1D_C	0.00	0.00	0.00	0.00		
E1D_B	0.00	0.00	0.00	0.00	0.00	0.00
E1D_A	0.00	0.00	0.00	0.00		
E1U_D	0.00	0.00	0.00	0.00	0.00	0.00
E1U_C	0.00	0.00	0.00	0.00		
E1U_B	0.00	0.00	0.00	0.00	0.00	0.00
E1U_A	0.00	0.00	0.00	0.00		


E2U PMT1
SEQ3_PMT1_ADC
Entries 9910
Mean 64.93
RMS 58.36
E2U PMT2
SEQ3_PMT2_ADC
Entries 9910
Mean 55.35
RMS 45.91
E1U PMT1
SEQ1_PMT1_ADC
Entries 9910
Mean 53.93
RMS 65.42
E1U PMT2
SEQ1_PMT2_ADC
Entries 9910
Mean 49.41
RMS 66.05
E2D PMT1
SEQ4_PMT1_ADC
Entries 9910
Mean 67.86
RMS 55.8
E2D PMT2
SEQ4_PMT2_ADC
Entries 9910
Mean 49.47
RMS 59.86
E1D PMT1
SEQ2_PMT1_ADC
Entries 9910
Mean 38.83
RMS 59.61
E1D PMT2
SEQ2_PMT2_ADC
Entries 9910
Mean 67.9
RMS 59.44
Nent
ADC


W1U PMT1
SEQ5_PMT1_ADC
Entries 9910
Mean 54.51
RMS 59.09
W1U PMT2
SEQ5_PMT2_ADC
Entries 9910
Mean 62.97
RMS 61.45
W2U PMT1
SEQ7_PMT1_ADC
Entries 9910
Mean 46.88
RMS 43.06
W2U PMT2
SEQ7_PMT2_ADC
Entries 9910
Mean 58.28
RMS 68.41
W1D PMT1
SEQ6_PMT1_ADC
Entries 9910
Mean 77.3
RMS 55.59
W1D PMT2
SEQ6_PMT2_ADC
Entries 9910
Mean 53.62
RMS 63.05
W2D PMT1
SEQ8_PMT1_ADC
Entries 9910
Mean 52.34
RMS 65.86
W2D PMT2
SEQ8_PMT2_ADC
Entries 9910
Mean 55.7
RMS 55.2
Nent
ADC


E2U TAC
SEQ3_TAC
Entries 9910
Mean x 128
Mean y 90.59
RMS x 386.7
RMS y 300.2
E1U TAC
SEQ1_TAC
Entries 9910
Mean x 184.2
Mean y 202.4
RMS x 365.6
RMS y 367.9
W1U TAC
SEQ5_TAC
Entries 9910
Mean x 116.9
Mean y 115.5
RMS x 279.5
RMS y 296.9
W2U TAC
SEQ7_TAC
Entries 9910
Mean x 159.7
Mean y 163.9
RMS x 320.1
RMS y 393.1
E2D TAC
SEQ4_TAC
Entries 9910
Mean x 168.4
Mean y 170.1
RMS x 328.5
RMS y 323.9
E1D TAC
SEQ2_TAC
Entries 9910
Mean x 144.4
Mean y 160.4
RMS x 362.5
RMS y 353.7
W1D TAC
SEQ6_TAC
Entries 9910
Mean x 137.5
Mean y 119.8
RMS x 341.1
RMS y 269.5
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Entries 9910
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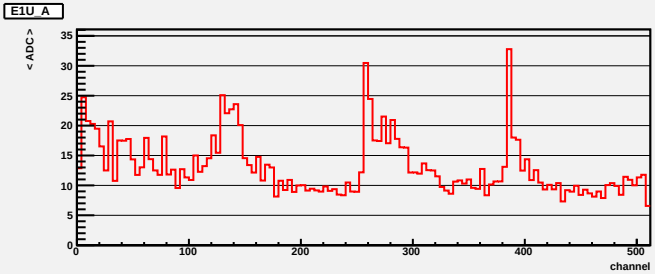
Mean y 139.6
RMS x 376.4
RMS y 390.9
PMT1
PMT2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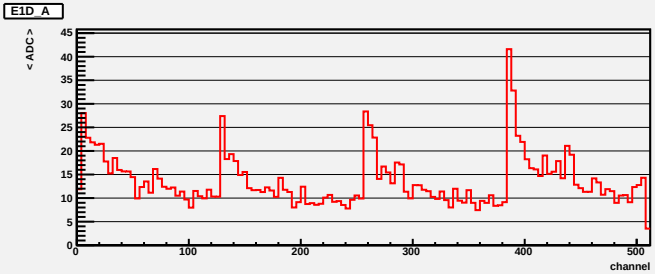
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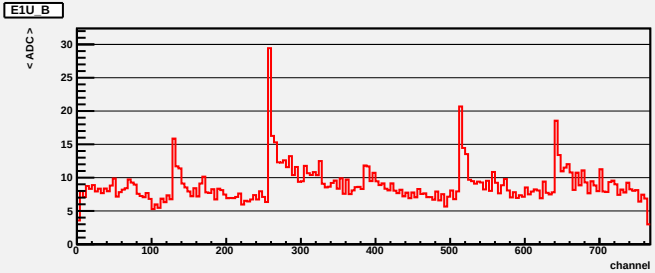
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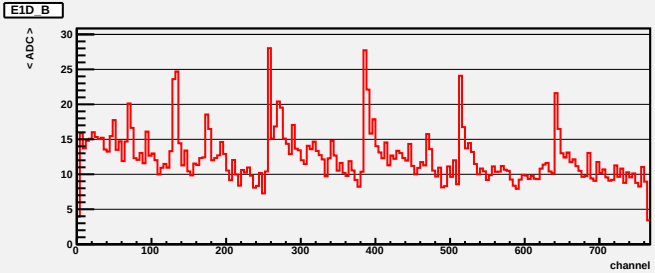
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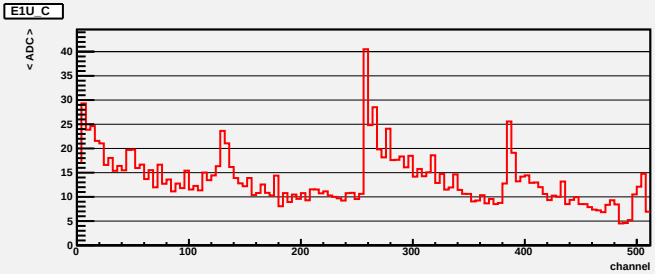
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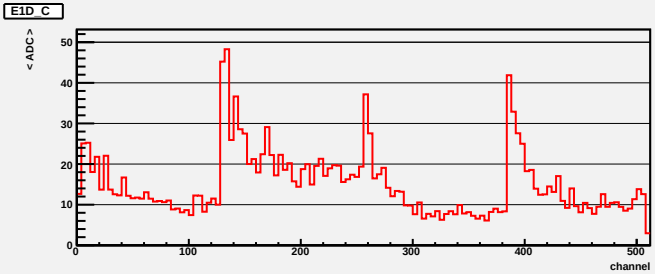
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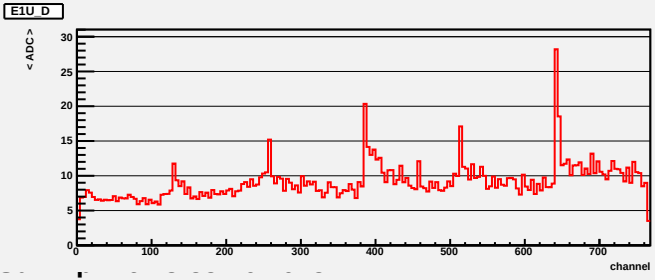
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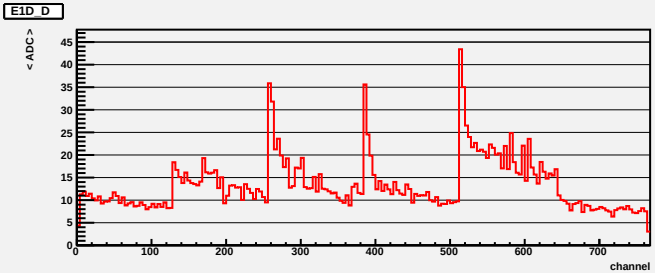
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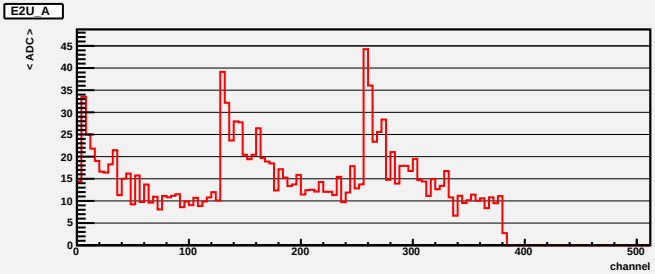
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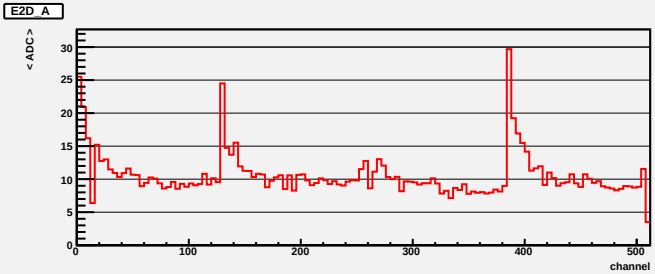
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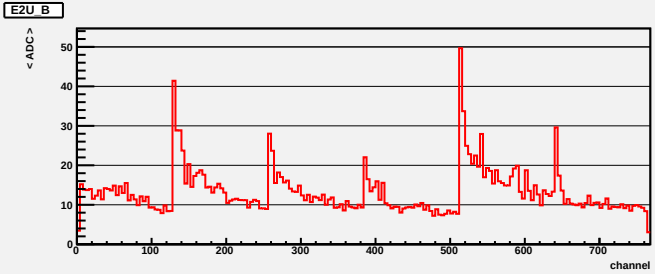
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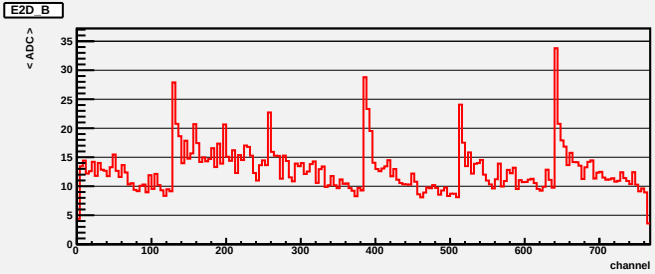
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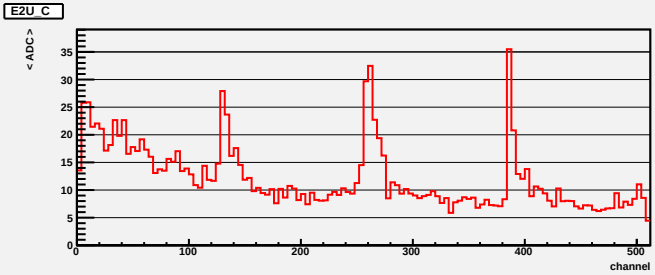
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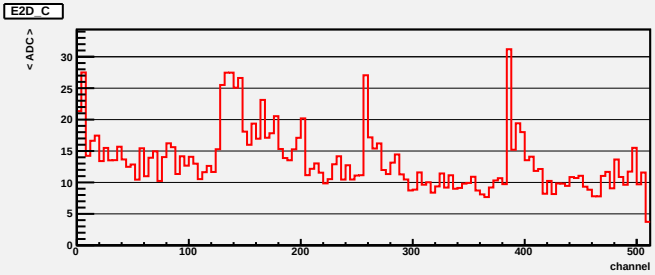
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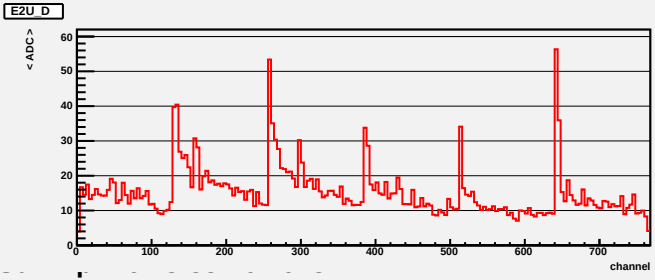
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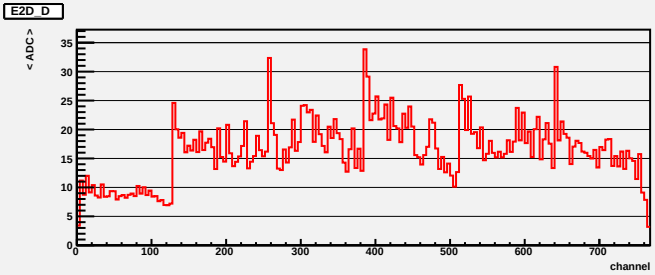
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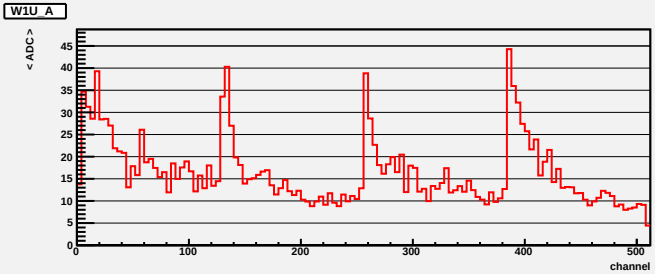
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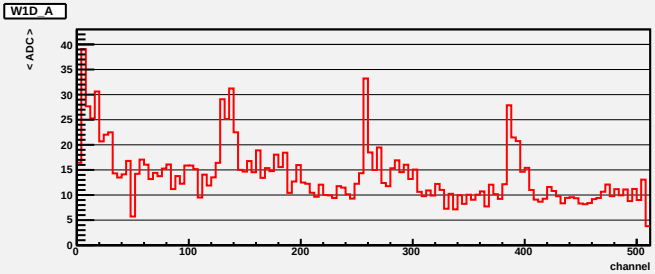
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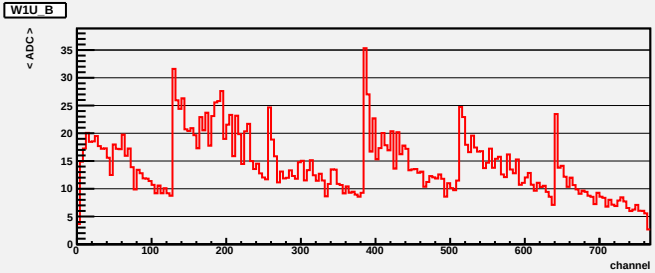
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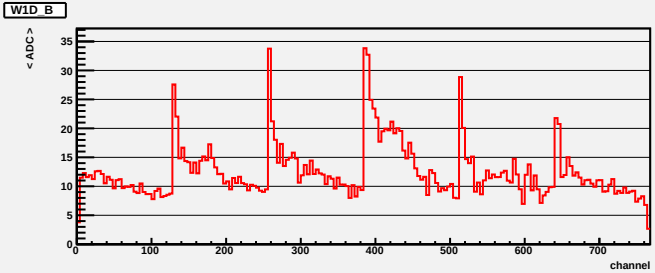
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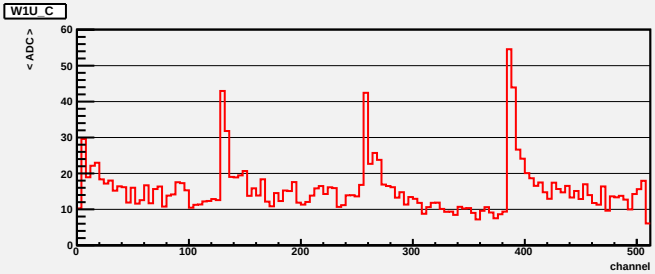
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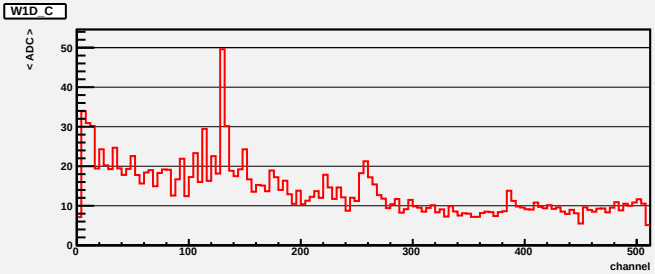
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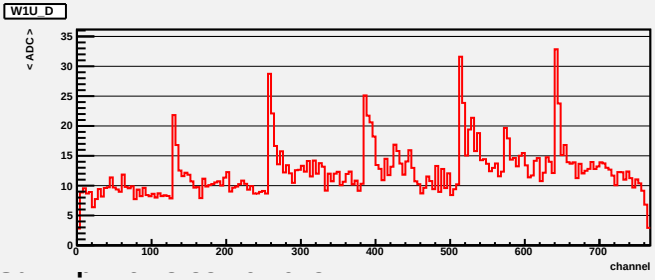
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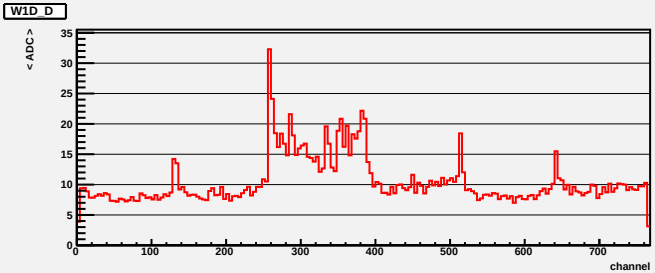
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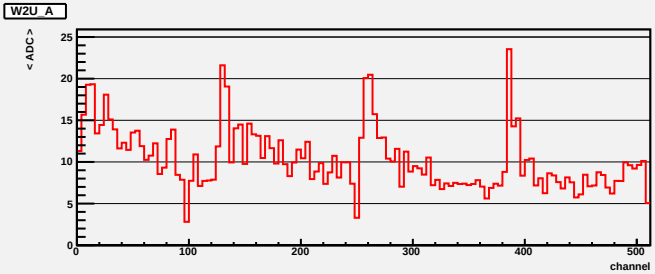
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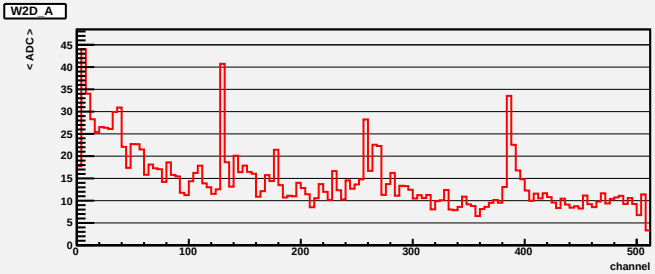
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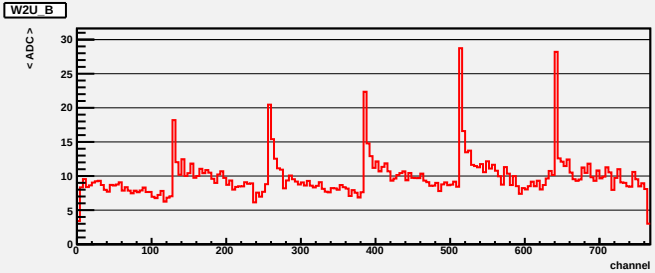
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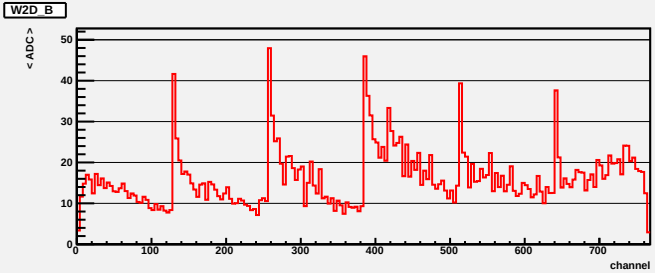
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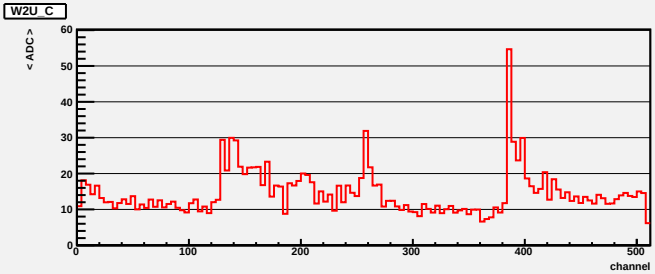
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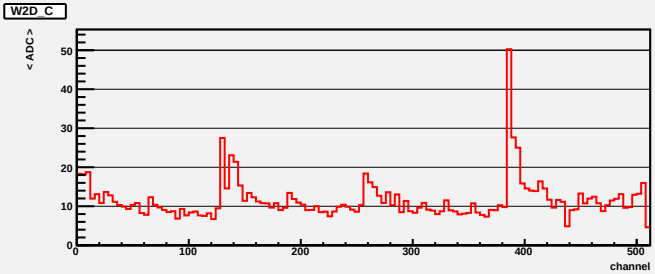
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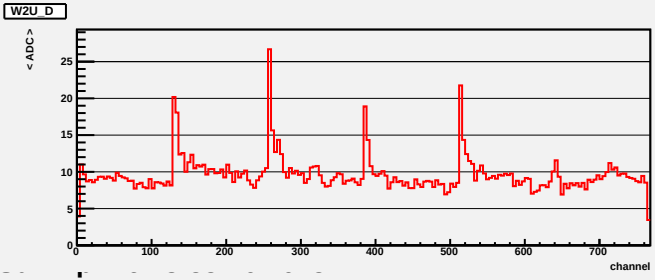
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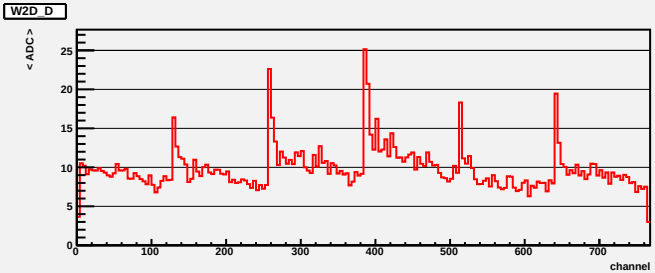
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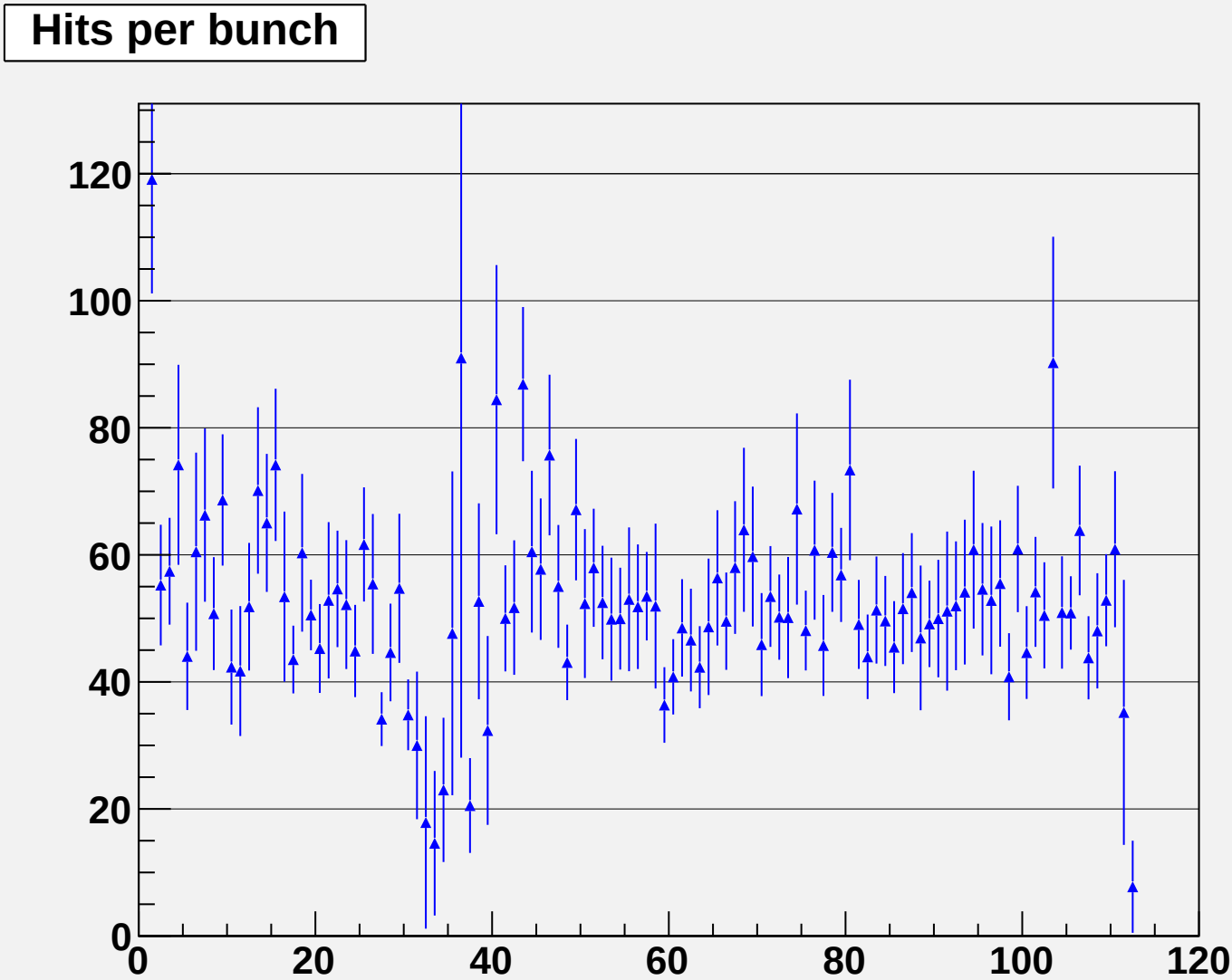
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Sun Apr 26 23:55:40 2015