JevpSummary

Run #16113002: (running for 591 seconds)

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

```
builder    base: (events 3191, avgtime 0.0000)
builder     bbc: (events 3191, avgtime 0.0001)
builder     daq: (events 3191, avgtime 0.0000)
builder   bemc: (events 2091, avgtime 0.0763)
builder   eemc: (events 3191, avgtime 0.0083)
builder     fpd: (events 3191, avgtime 0.0001)
builder     hlt: (events 3191, avgtime 0.0000)
builder      l3: (events 748, avgtime 0.2135)
builder     tof: (events 3191, avgtime 0.0006)
builder     mtd: (events 3191, avgtime 0.0001)
builder     tpx: (events 3190, avgtime 0.0286)
builder     trg: (events 3191, avgtime 0.0001)
builder     upc: (events 3191, avgtime 0.0000)
builder     fgt: (events 3191, avgtime 0.0087)
builder     vpd: (events 3191, avgtime 0.0001)
builder     fms: (events 3191, avgtime 0.0003)
builder     fps: (events 3191, avgtime 0.0004)
builder     gmt: (events 3191, avgtime 0.0001)
builder     pxl: (events 3191, avgtime 0.0000)
builder     ist: (events 3191, avgtime 0.0097)
builder     ssd: (events 3191, avgtime 0.0000)
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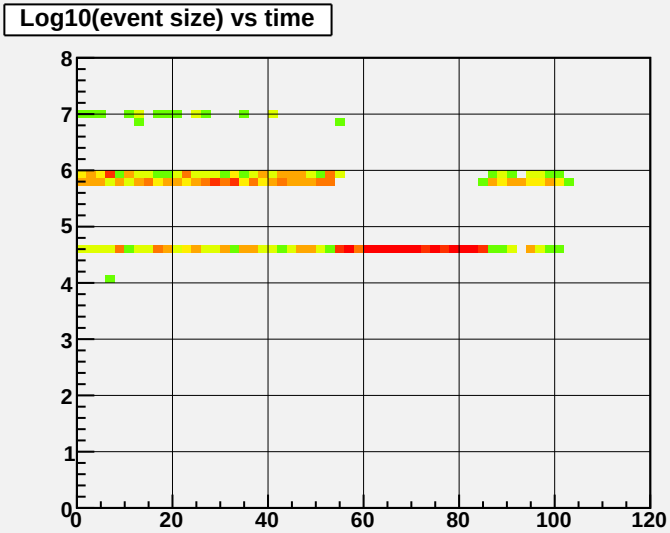
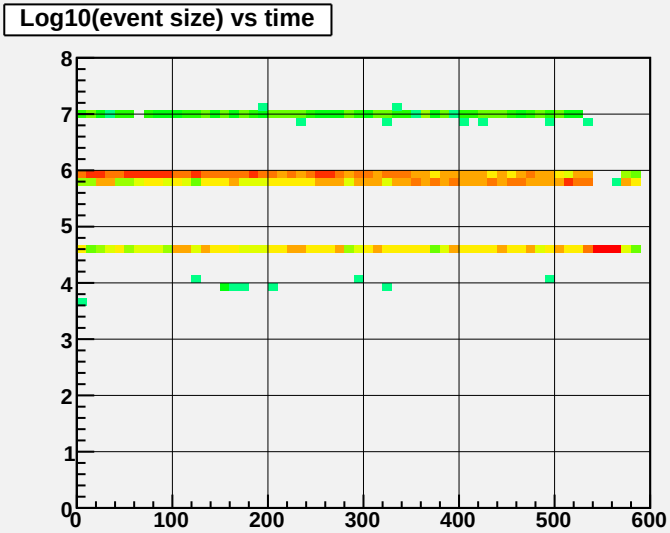
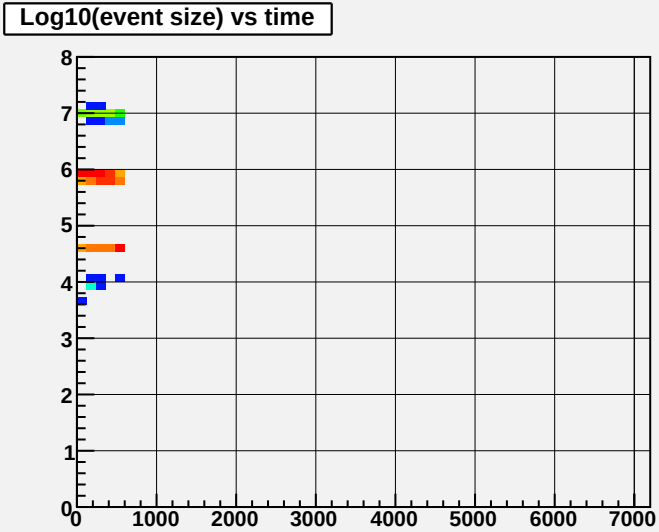
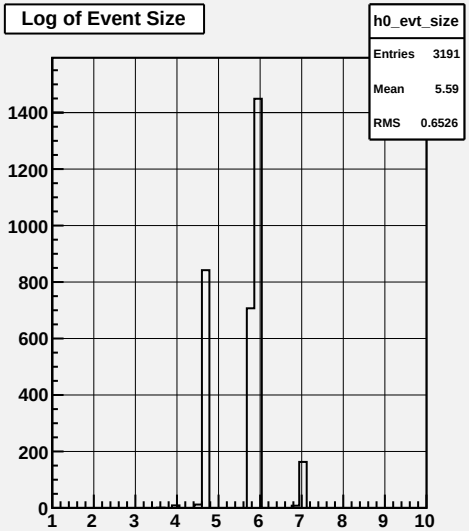
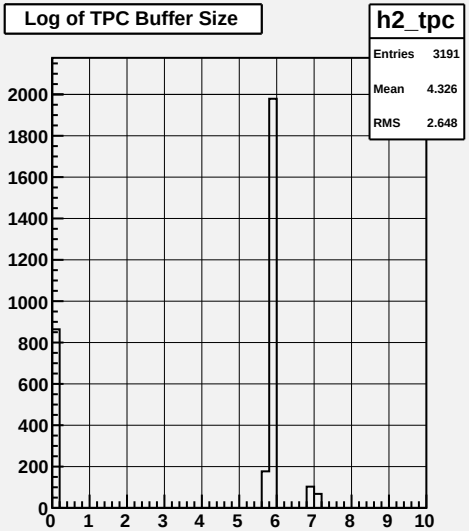

Log10(event size) vs time
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120


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



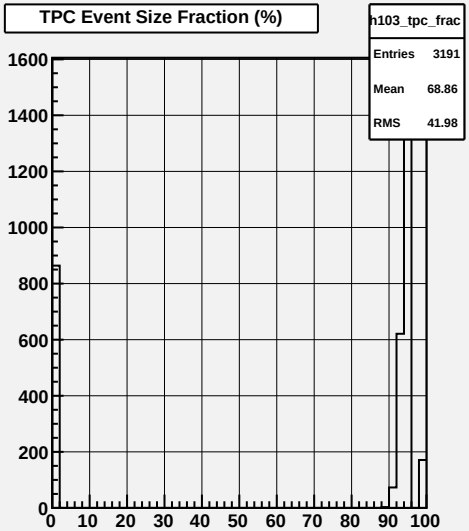


daq_h12_l3_evsize

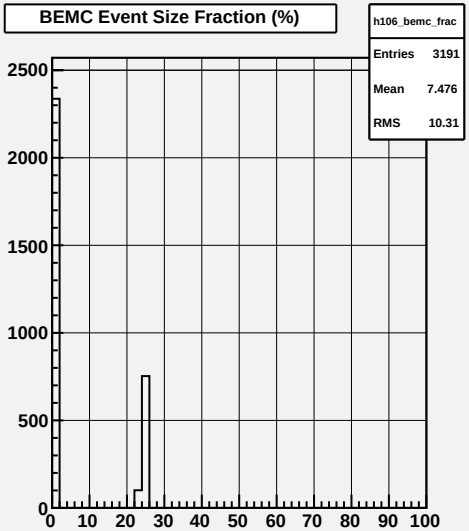
daq_h10_bemc_evsize

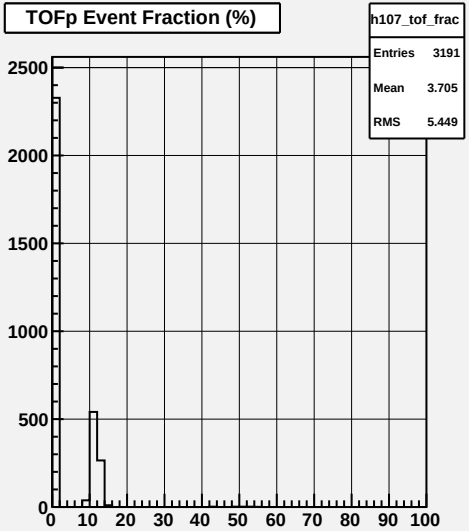
daq_h14_tof_evsize

daq_h11_ftp_evsize

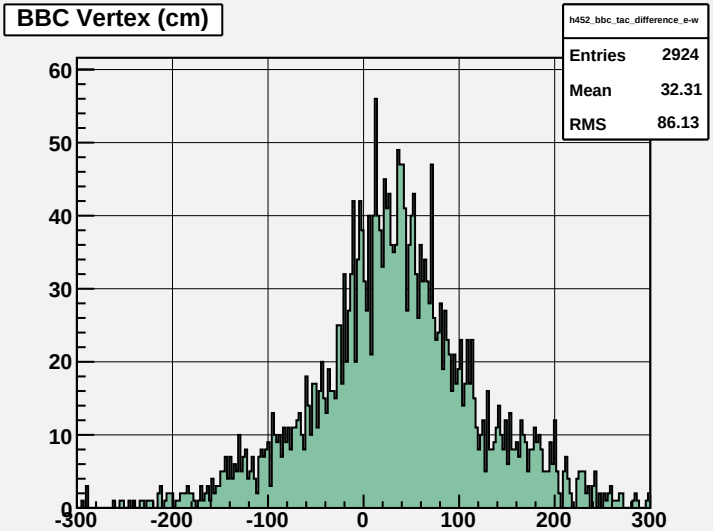


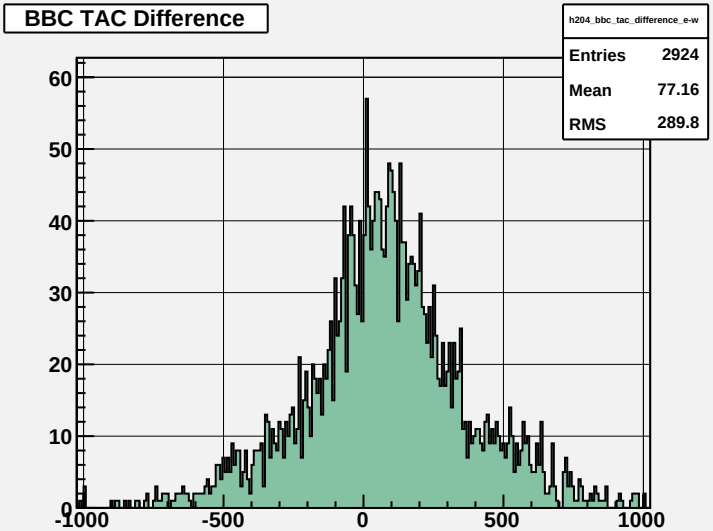
daq_h108_l3_frac

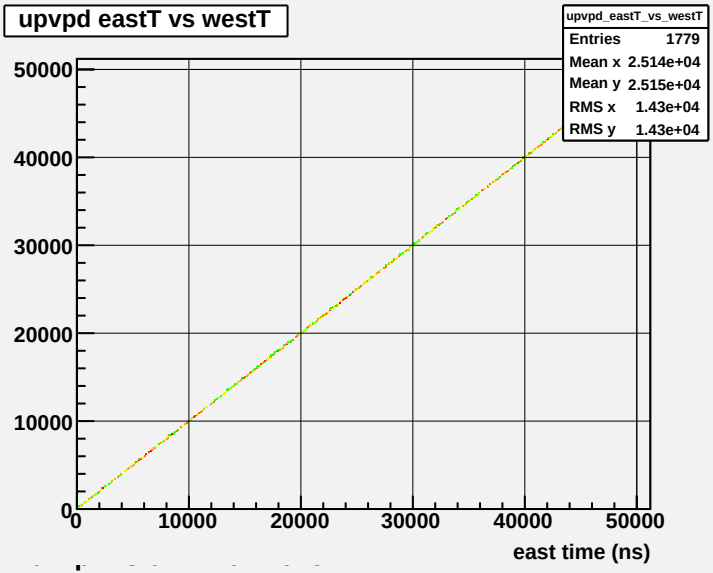


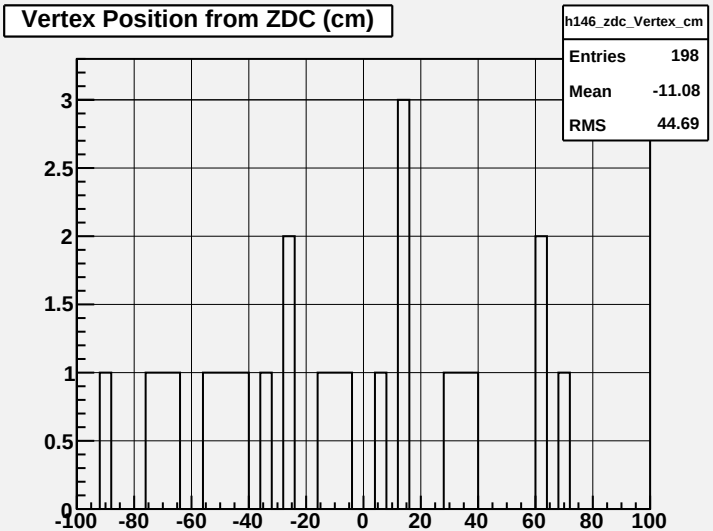


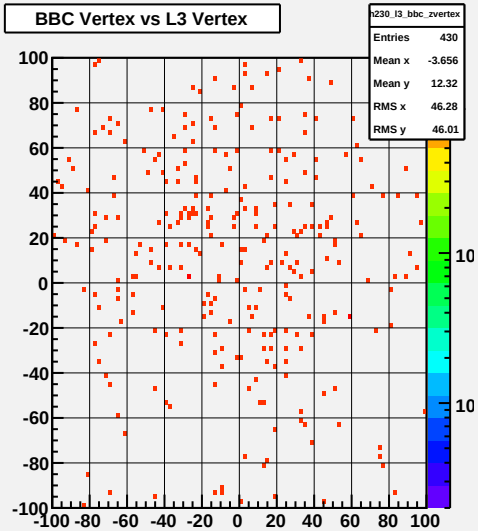
daq_h105_ftp_frac

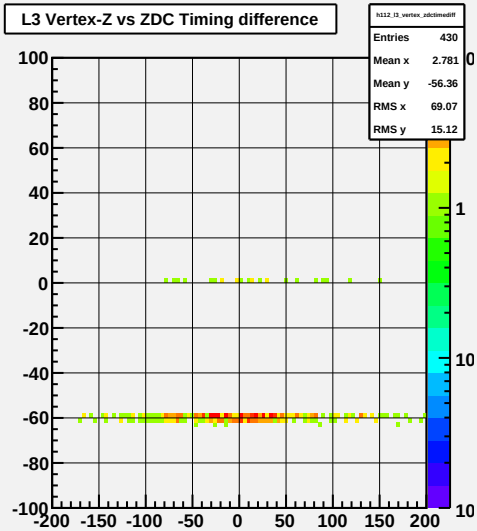

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 2924
Mean 32.31
RMS 86.13
60
50
40
30
20
10
0
-300
-200
-100
0
100
200
300

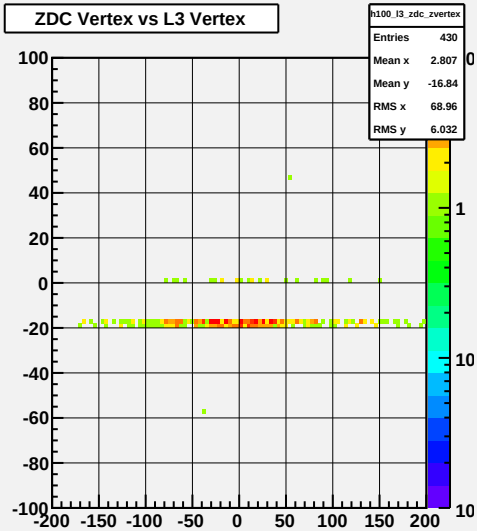

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 2924
Mean 77.16
RMS 289.8
60
50
40
30
20
10
0
-1000
-500
0
500
1000

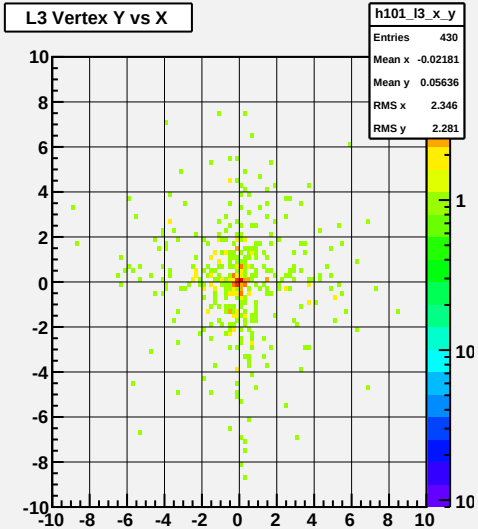

upvpd eastT vs westT
upvpd_eastT_vs_westT
Entries 1779
Mean x 2.514e+04
Mean y 2.515e+04
RMS x 1.43e+04
RMS y 1.43e+04
50000
40000
30000
20000
10000
0
0
10000
20000
30000
40000
50000
east time (ns)

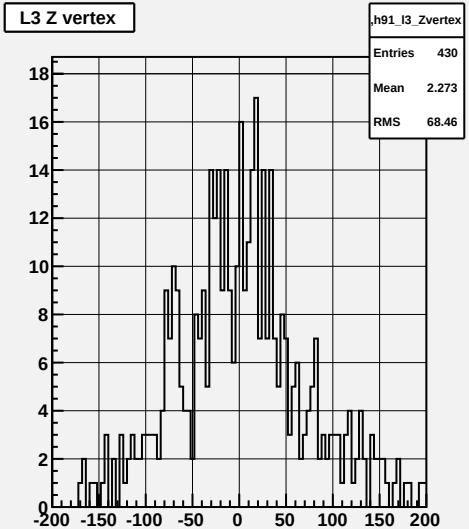

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 198
Mean -11.08
RMS 44.69
3
2.5
2
1.5
1
0.5
0
-100
-80
-60
-40
-20
0
20
40
60
80
100

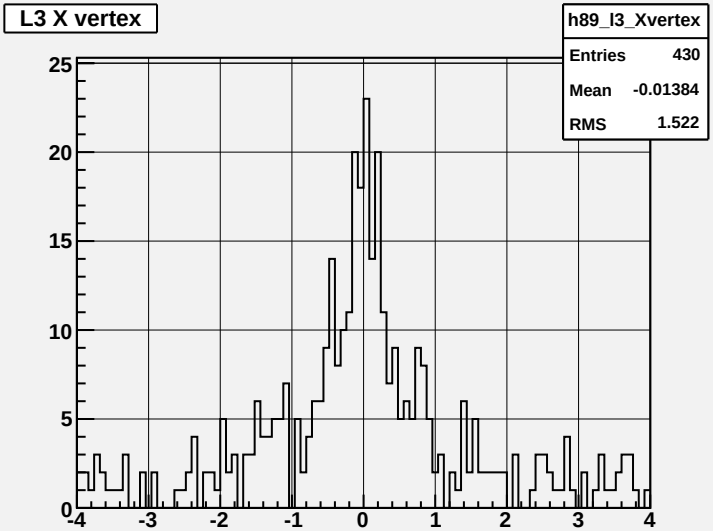

BBC Vertex vs L3 Vertex
h230_l3_bbc_zvertex
Entries 430
Mean x -3.656
Mean y 12.32
RMS x 46.28
RMS y 46.01

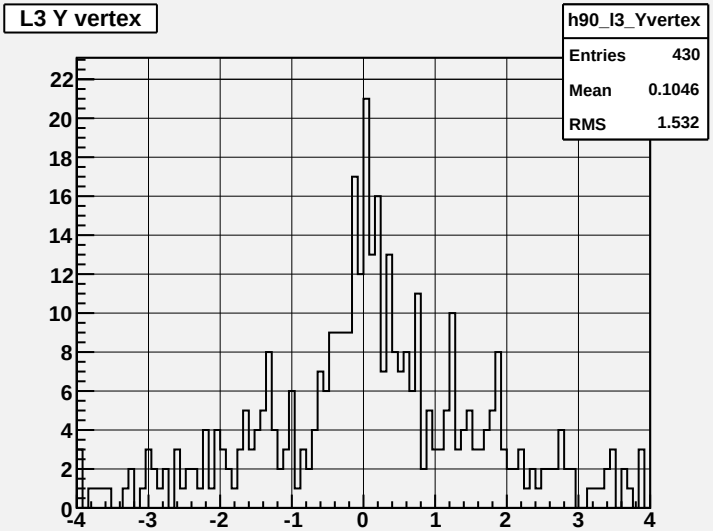

L3 Vertex-Z vs ZDC Timing difference
h112_l3_vertex_zdctimediff
Entries 430
Mean x 2.781
Mean y -56.36
RMS x 69.07
RMS y 15.12

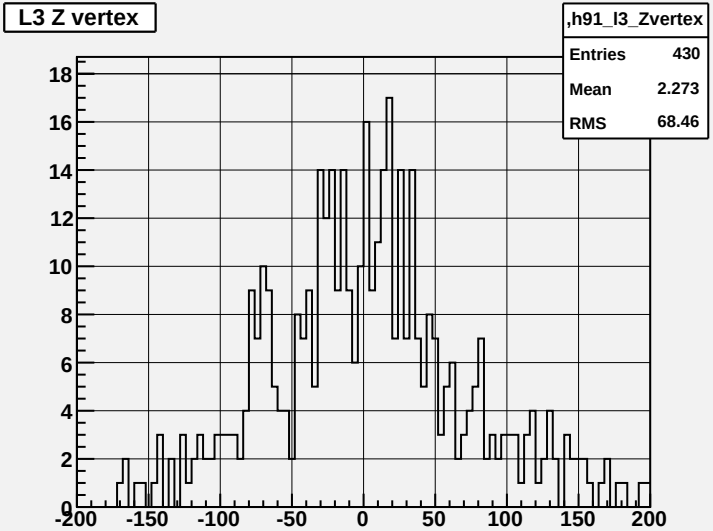

ZDC Vertex vs L3 Vertex
h100_l3_zdc_zvertex
Entries 430
Mean x 2.807
Mean y -16.84
RMS x 68.96
RMS y 6.032

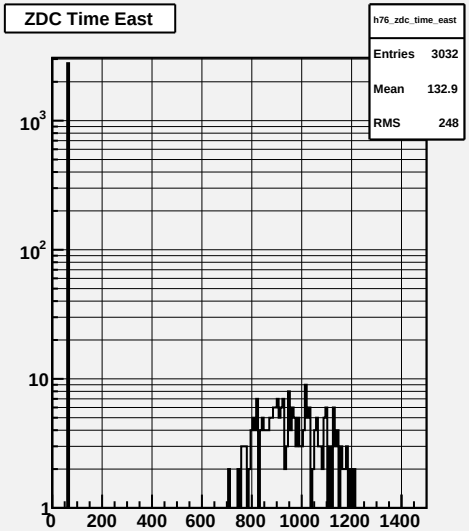

L3 Vertex Y vs X
h101_l3_x_y
Entries 430
Mean x -0.02181
Mean y 0.05636
RMS x 2.346
RMS y 2.281

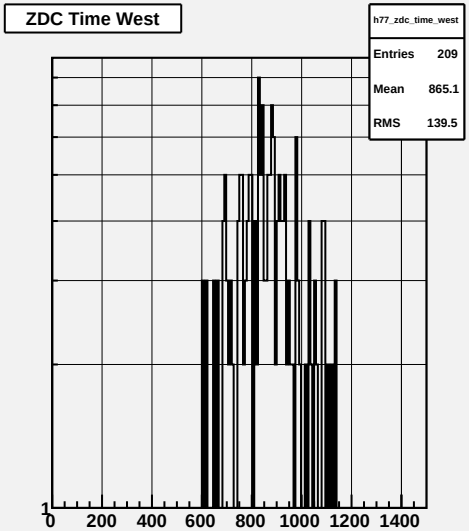

L3 Z vertex
h91_l3_Zvertex
Entries 430
Mean 2.273
RMS 68.46

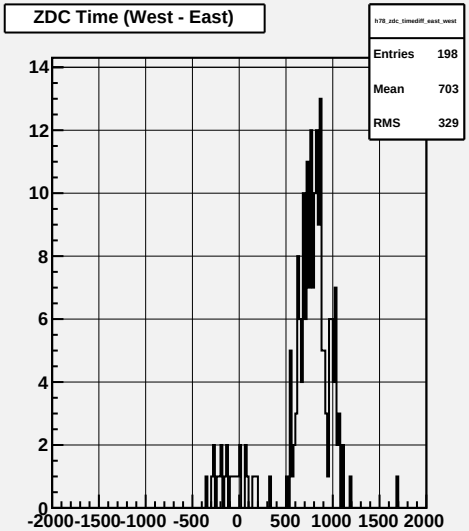

L3 X vertex
h89_l3_Xvertex
Entries 430
Mean -0.01384
RMS 1.522

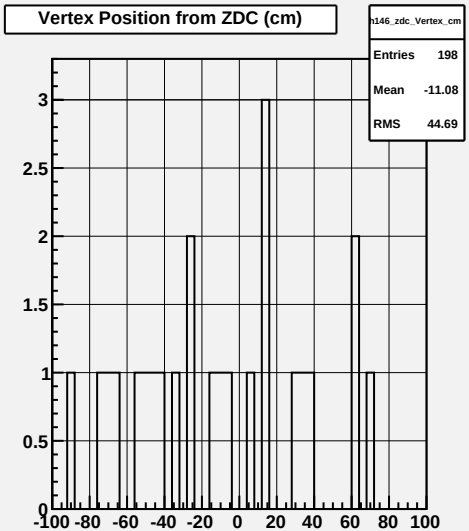

L3 Y vertex
h90_l3_Yvertex
Entries 430
Mean 0.1046
RMS 1.532

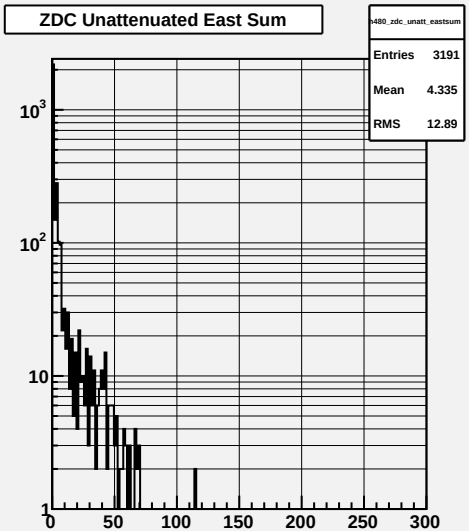

L3 Z vertex
,h91_l3_Zvertex
Entries 430
Mean 2.273
RMS 68.46

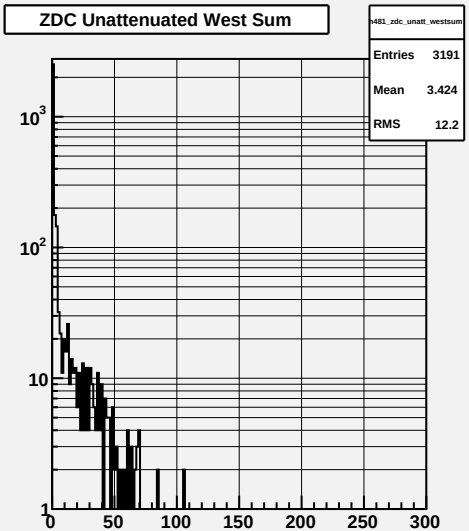

ZDC Time East
h76_zdc_time_east
Entries 3032
Mean 132.9
RMS 248

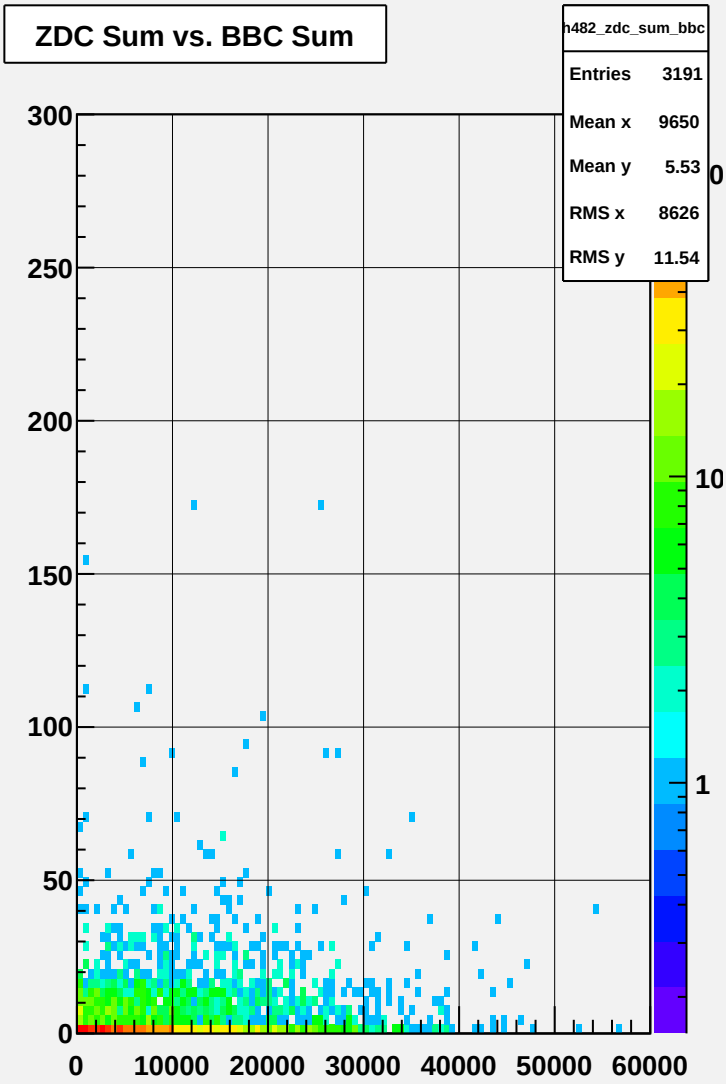

ZDC Time West
h77_zdc_time_west
Entries 209
Mean 865.1
RMS 139.5

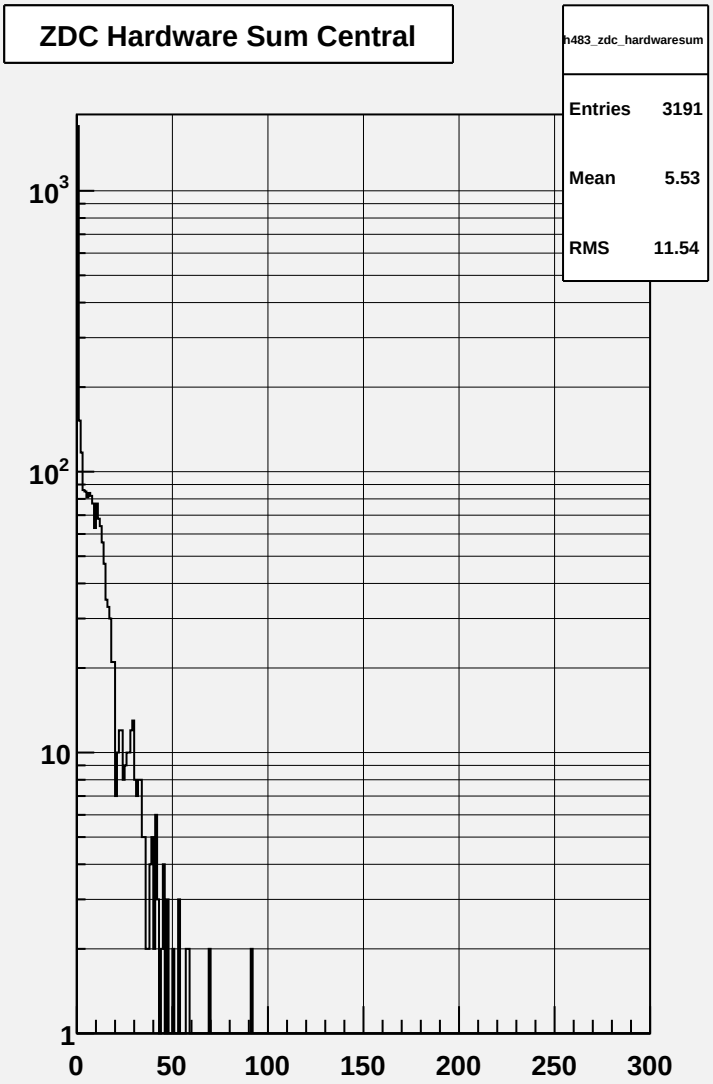

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 198
Mean 703
RMS 329

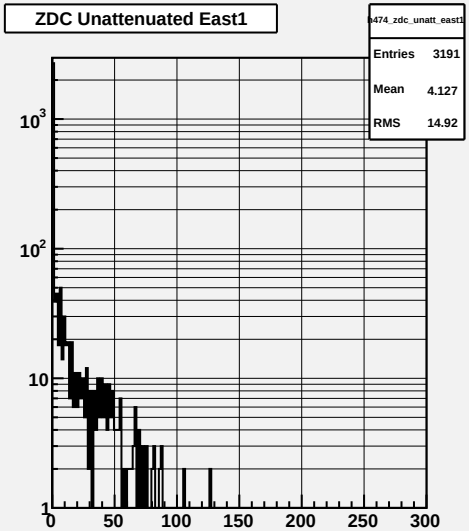

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 198
Mean -11.08
RMS 44.69

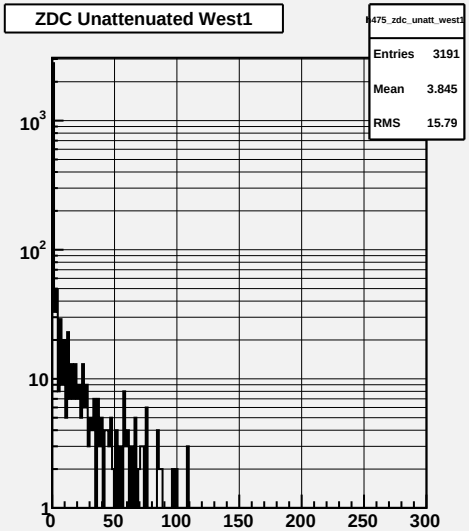

ZDC Unattenuated East Sum
h480_zdc_unatt_eastsum
Entries 3191
Mean 4.335
RMS 12.89

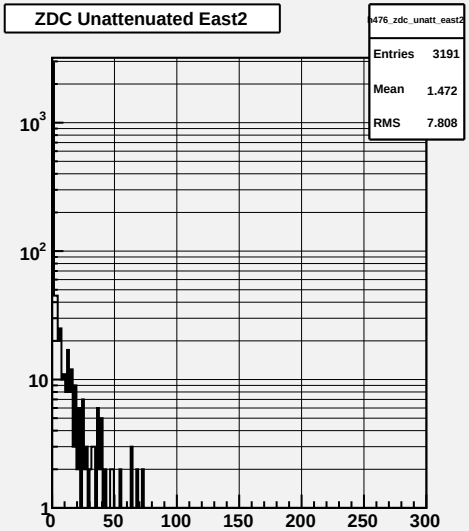

ZDC Unattenuated West Sum
h481_zdc_unatt_westsum
Entries 3191
Mean 3.424
RMS 12.2

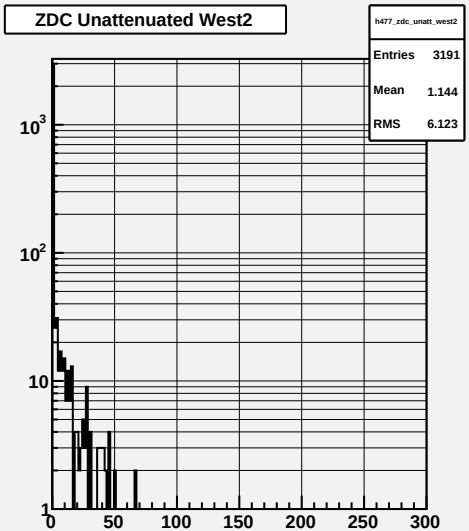

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 3191
Mean x 9650
Mean y 5.53
RMS x 8626
RMS y 11.54
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
1

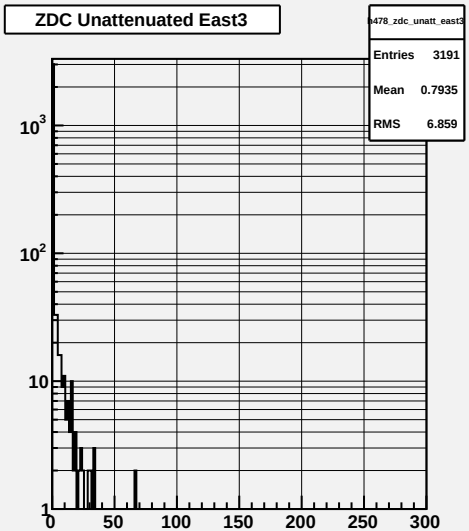

ZDC Hardware Sum Central
h483_zdc_hardwaresum
Entries 3191
Mean 5.53
RMS 11.54
10^3
10^2
10
1
0
50
100
150
200
250
300

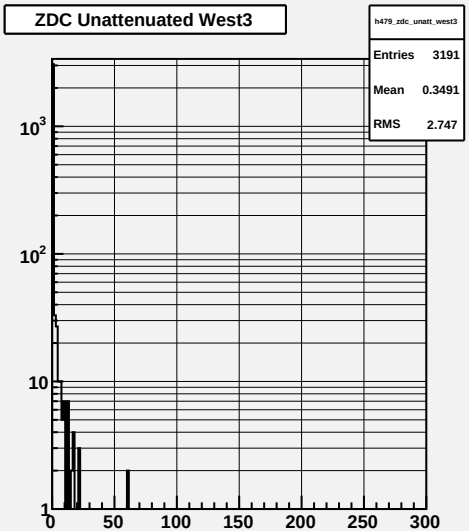

ZDC Unattenuated East1
h474_zdc_unatt_east1
Entries 3191
Mean 4.127
RMS 14.92

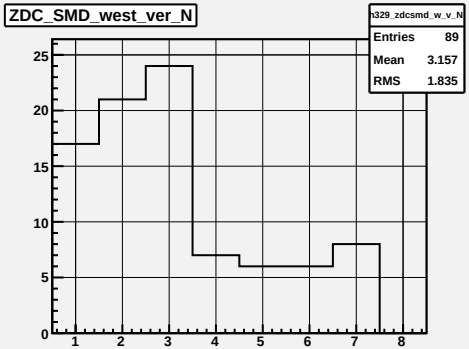

ZDC Unattenuated West1
h475_zdc_unatt_west1
Entries 3191
Mean 3.845
RMS 15.79

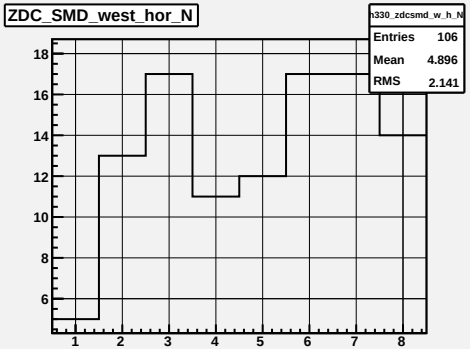

ZDC Unattenuated East2
h476_zdc_unatt_east2
Entries 3191
Mean 1.472
RMS 7.808

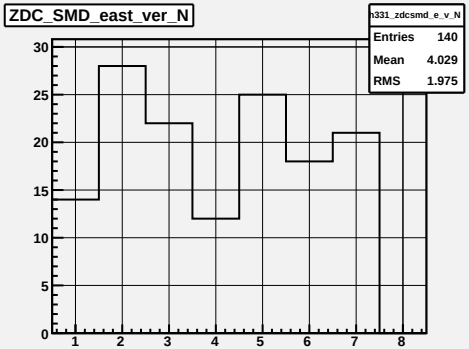

ZDC Unattenuated West2
h477_zdc_unatt_west2
Entries 3191
Mean 1.144
RMS 6.123

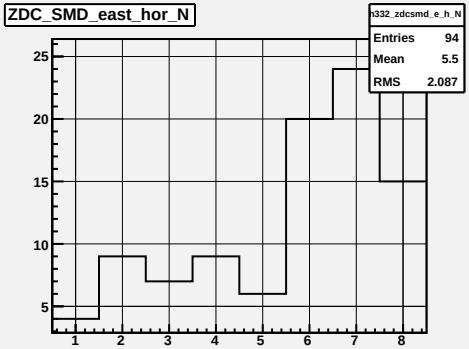

ZDC Unattenuated East3
h478_zdc_unatt_east3
Entries 3191
Mean 0.7935
RMS 6.859

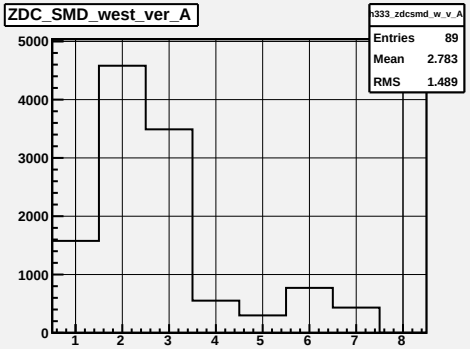

ZDC Unattenuated West3
h479_zdc_unatt_west3
Entries 3191
Mean 0.3491
RMS 2.747

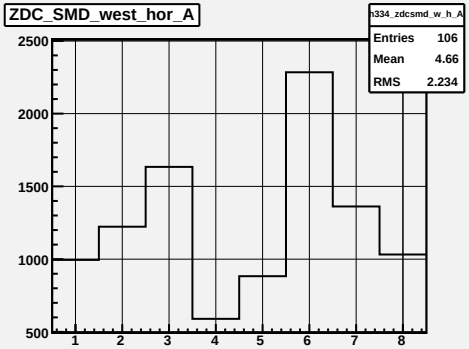

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 89
Mean 3.157
RMS 1.835

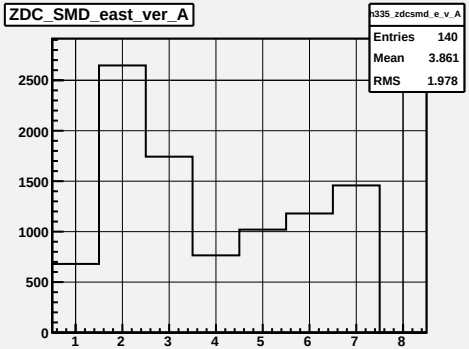

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 106
Mean 4.896
RMS 2.141

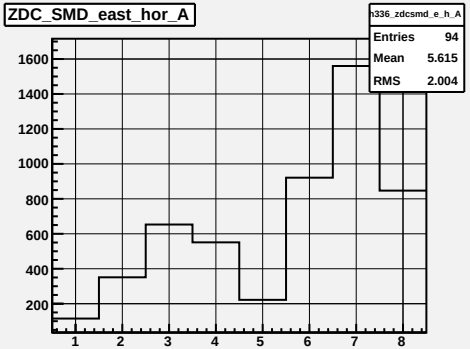

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 140
Mean 4.029
RMS 1.975

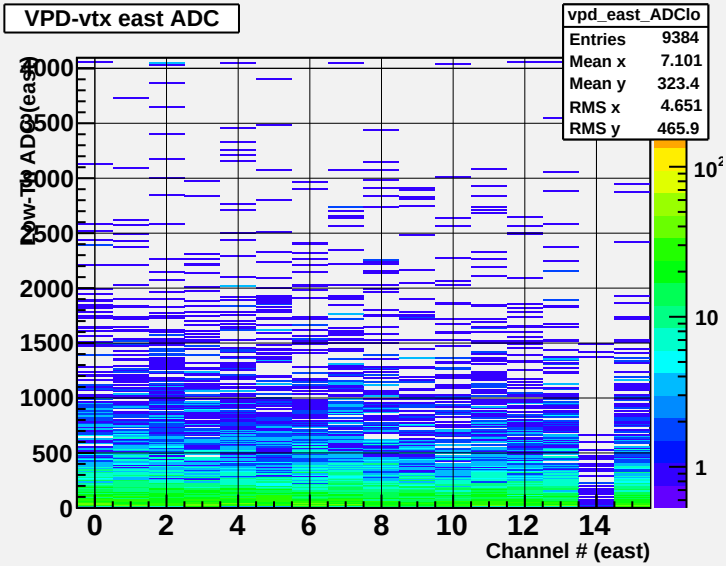

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 94
Mean 5.5
RMS 2.087

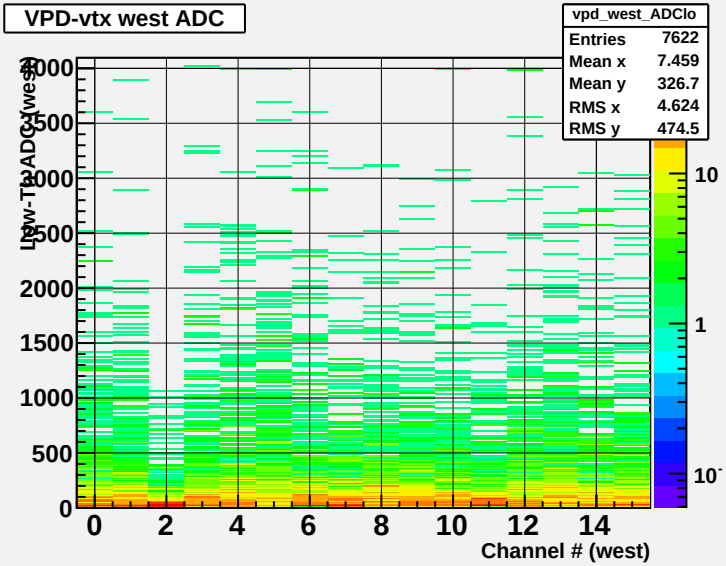

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 89
Mean 2.783
RMS 1.489

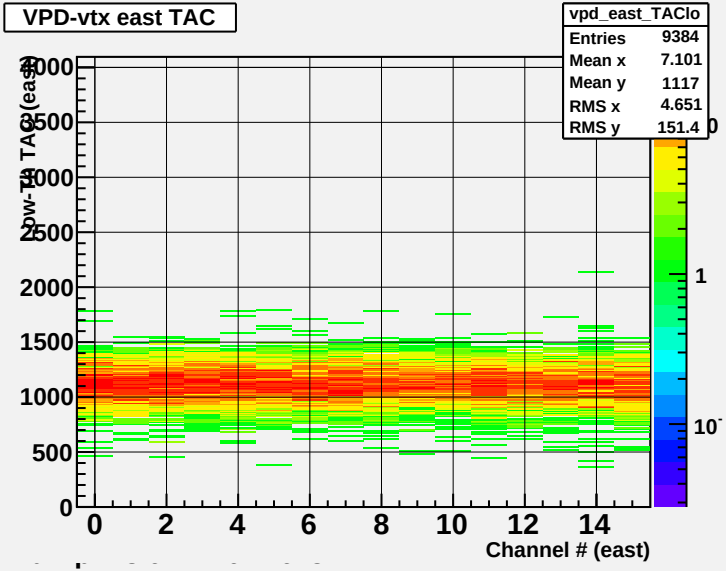

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 106
Mean 4.66
RMS 2.234

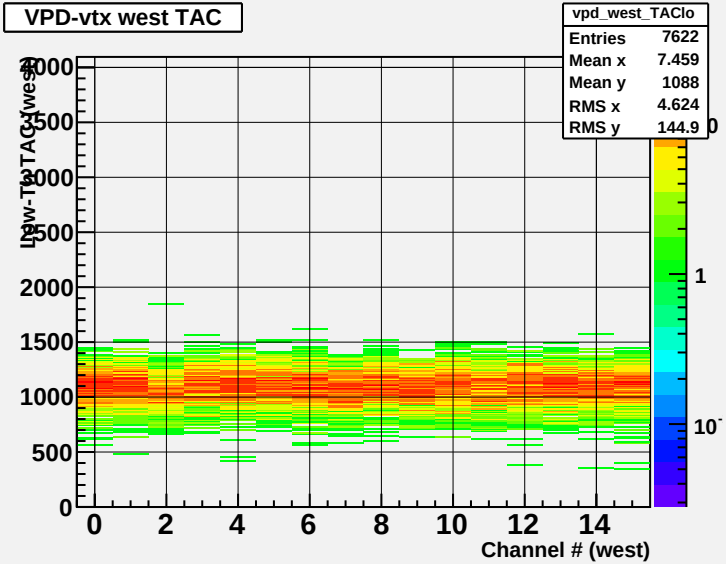

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 140
Mean 3.861
RMS 1.978

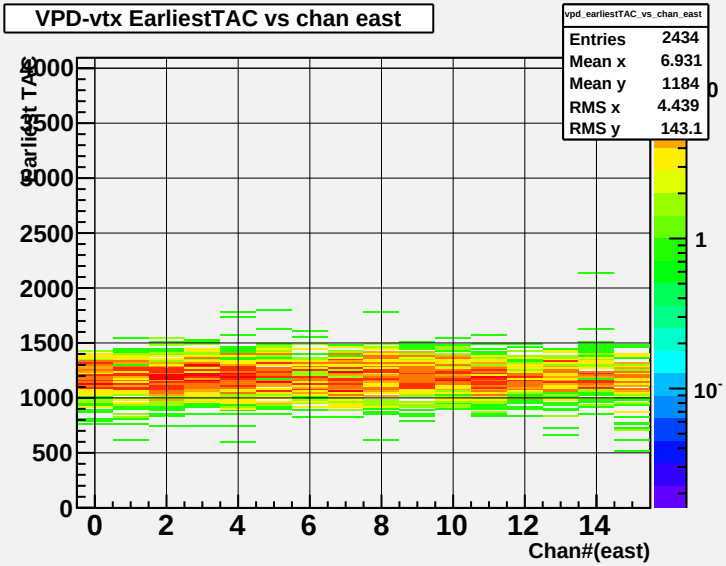

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 94
Mean 5.615
RMS 2.004

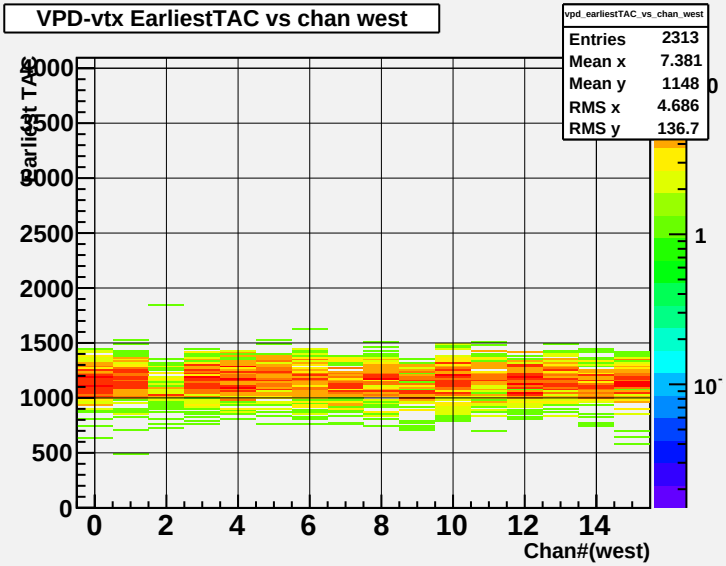

VPD-vtx east ADC
vpd_east_ADClo
Entries 9384
Mean x 7.101
Mean y 323.4
RMS x 4.651
RMS y 465.9
Low-Tw ADC (east)
Channel # (east)

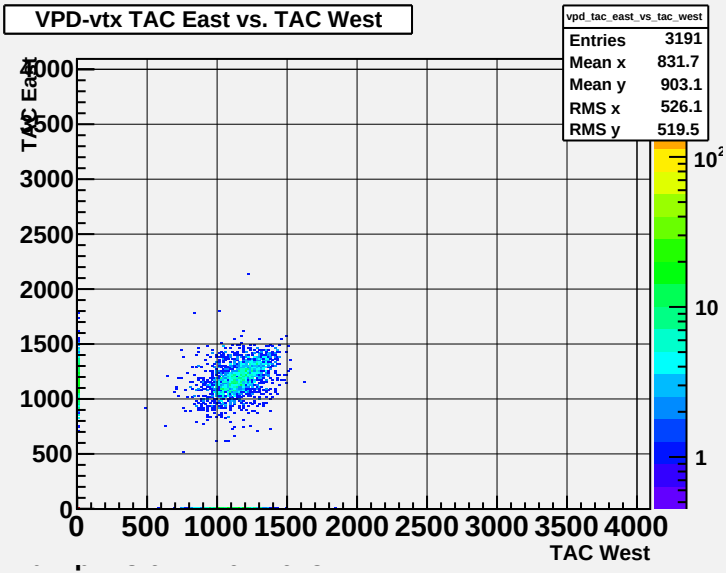

VPD-vtx west ADC
vpd_west_ADClo
Entries 7622
Mean x 7.459
Mean y 326.7
RMS x 4.624
RMS y 474.5
Low-Tw ADC (west)
Channel # (west)

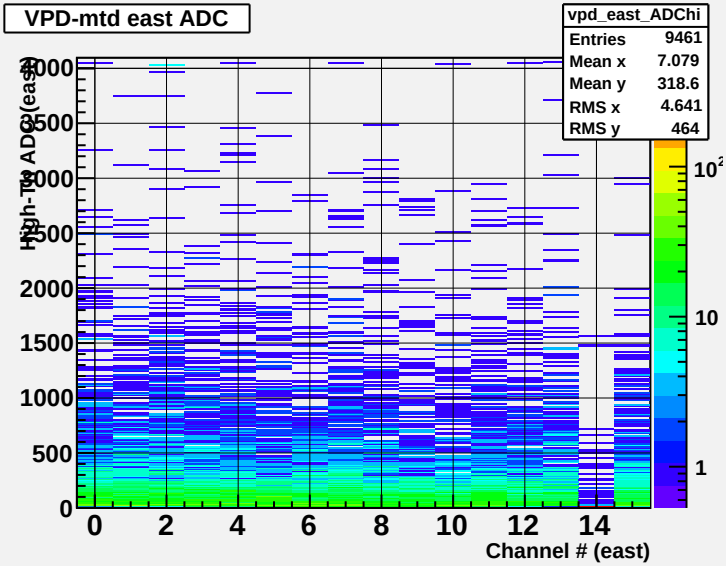

VPD-vtx east TAC
vpd_east_TAClo
Entries 9384
Mean x 7.101
Mean y 1117
RMS x 4.651
RMS y 151.4
Low-Tw TAC (east)
Channel # (east)

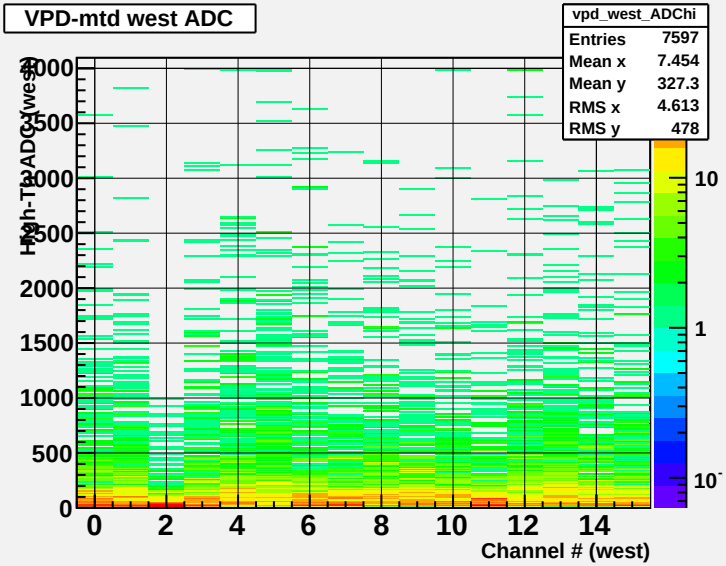

VPD-vtx west TAC
vpd_west_TAClo
Entries 7622
Mean x 7.459
Mean y 1088
RMS x 4.624
RMS y 144.9
Low-Tw TAC (west)
Channel # (west)

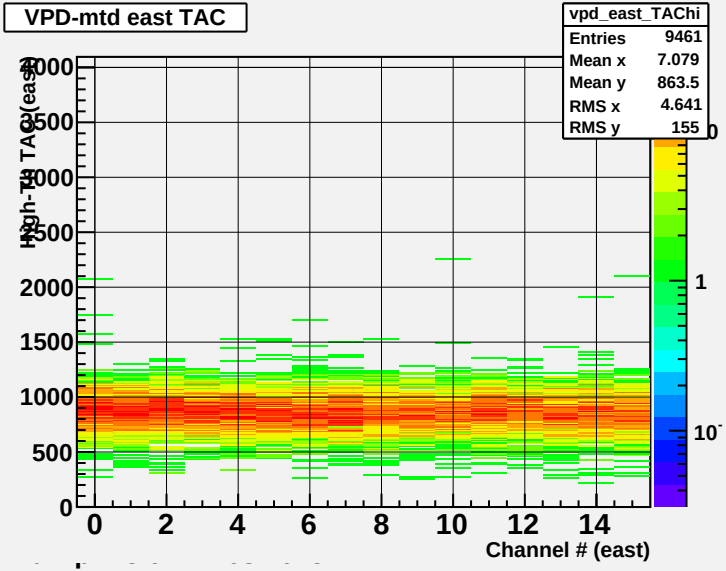

VPD-vtx EarliestTAC vs chan east
vpd_earliestTAC_vs_chan_east
Entries 2434
Mean x 6.931
Mean y 1184
RMS x 4.439
RMS y 143.1
Earliest TAC
Chan#(east)

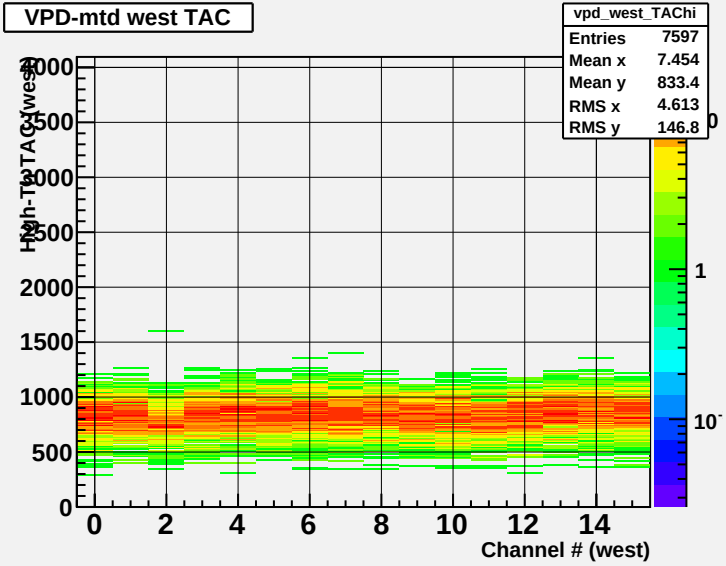

VPD-vtx EarliestTAC vs chan west
vpd_earliestTAC_vs_chan_west
Entries 2313
Mean x 7.381
Mean y 1148
RMS x 4.686
RMS y 136.7
Earliest TAC
Chan#(west)

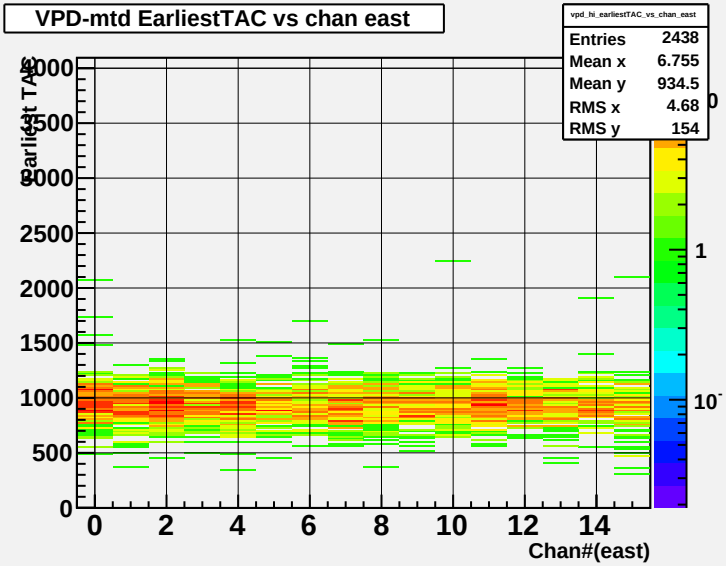

VPD-vtx TAC East vs. TAC West
vpd_tac_east_vs_tac_west
Entries 3191
Mean x 831.7
Mean y 903.1
RMS x 526.1
RMS y 519.5
TAC East
TAC West

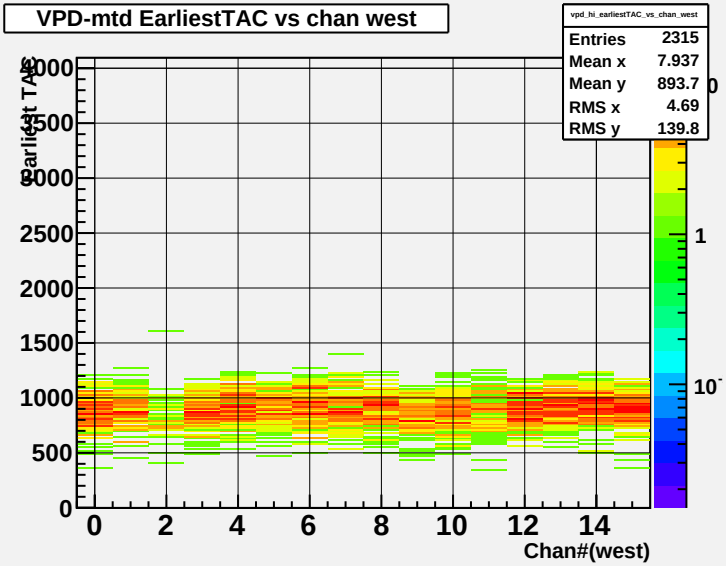

VPD-mtd east ADC
vpd_east_ADChi
Entries 9461
Mean x 7.079
Mean y 318.6
RMS x 4.641
RMS y 464
High-Tu ADC (east)
Channel # (east)

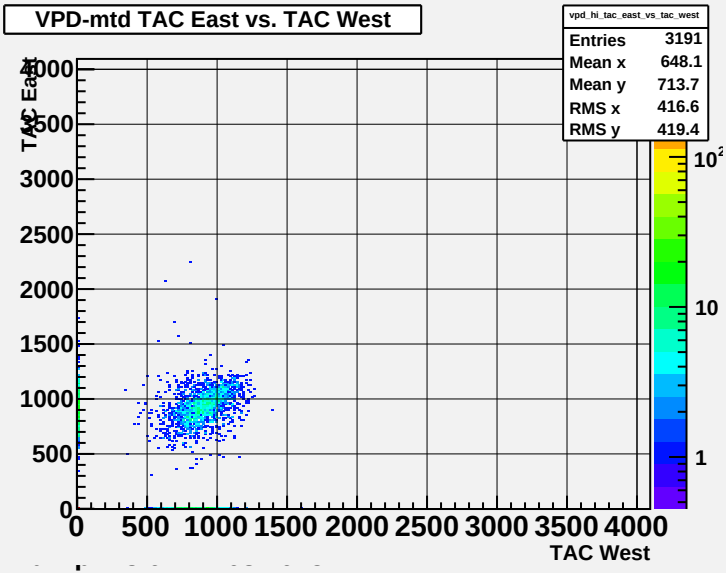

VPD-mtd west ADC
vpd_west_ADChi
Entries 7597
Mean x 7.454
Mean y 327.3
RMS x 4.613
RMS y 478
High-Tu ADC (west)
Channel # (west)

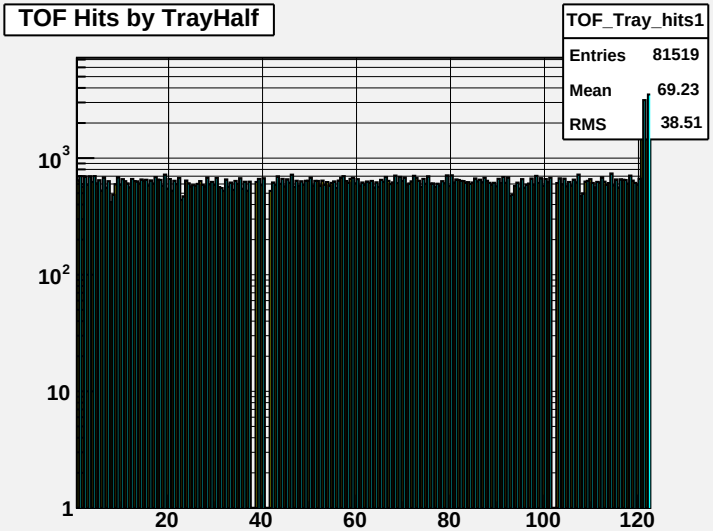

VPD-mtd east TAC
vpd_east_TAChi
Entries 9461
Mean x 7.079
Mean y 863.5
RMS x 4.641
RMS y 155
High-Tu TAC (east)
Channel # (east)

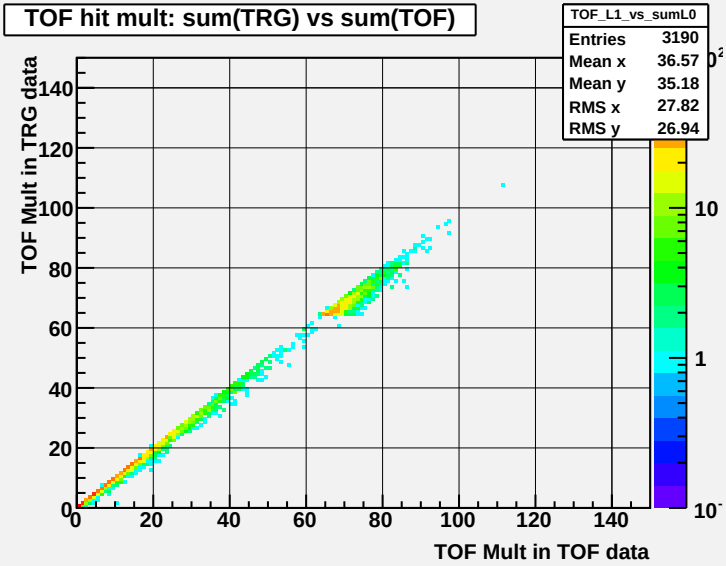

VPD-mtd west TAC
vpd_west_TAChi
Entries 7597
Mean x 7.454
Mean y 833.4
RMS x 4.613
RMS y 146.8
High-Tu TAC (west)
Channel # (west)

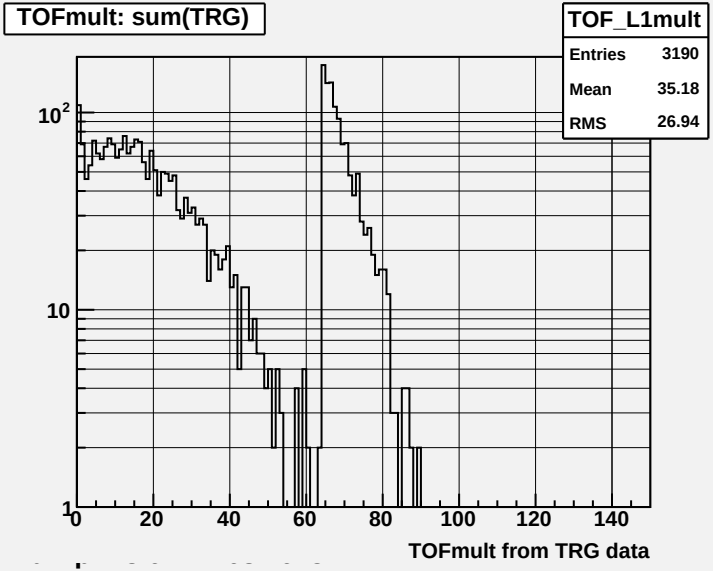

VPD-mtd EarliestTAC vs chan east
vpd_hi_earliestTAC_vs_chan_east
Entries 2438
Mean x 6.755
Mean y 934.5
RMS x 4.68
RMS y 154
Earliest TAC
Chan#(east)

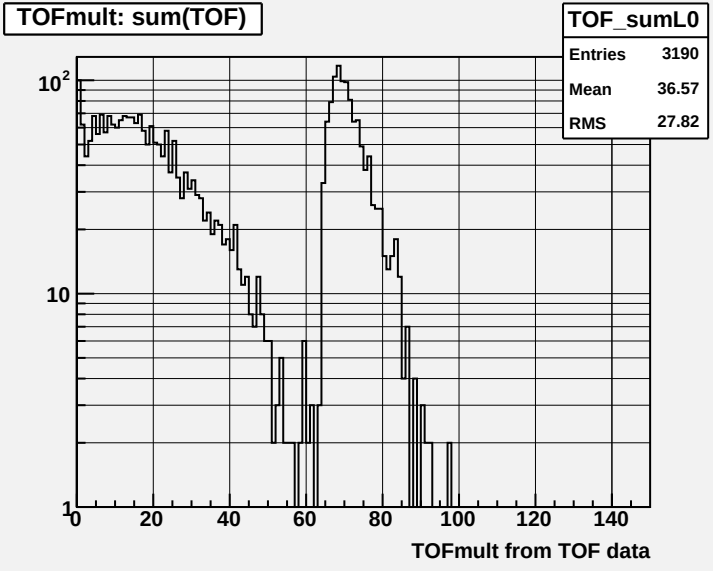

VPD-mtd EarliestTAC vs chan west
vpd_hi_earliestTAC_vs_chan_west
Entries 2315
Mean x 7.937
Mean y 893.7
RMS x 4.69
RMS y 139.8
Earliest TAC
Chan#(west)

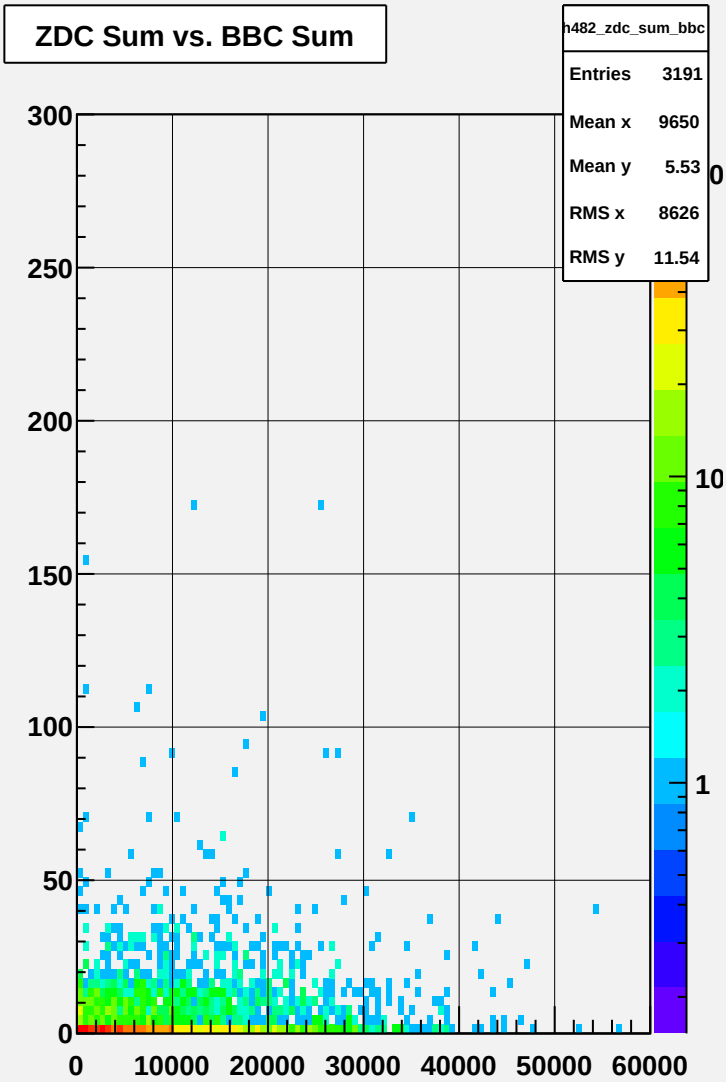

VPD-mtd TAC East vs. TAC West
vpd_hi_tac_east_vs_tac_west
Entries 3191
Mean x 648.1
Mean y 713.7
RMS x 416.6
RMS y 419.4
TAC East
TAC West

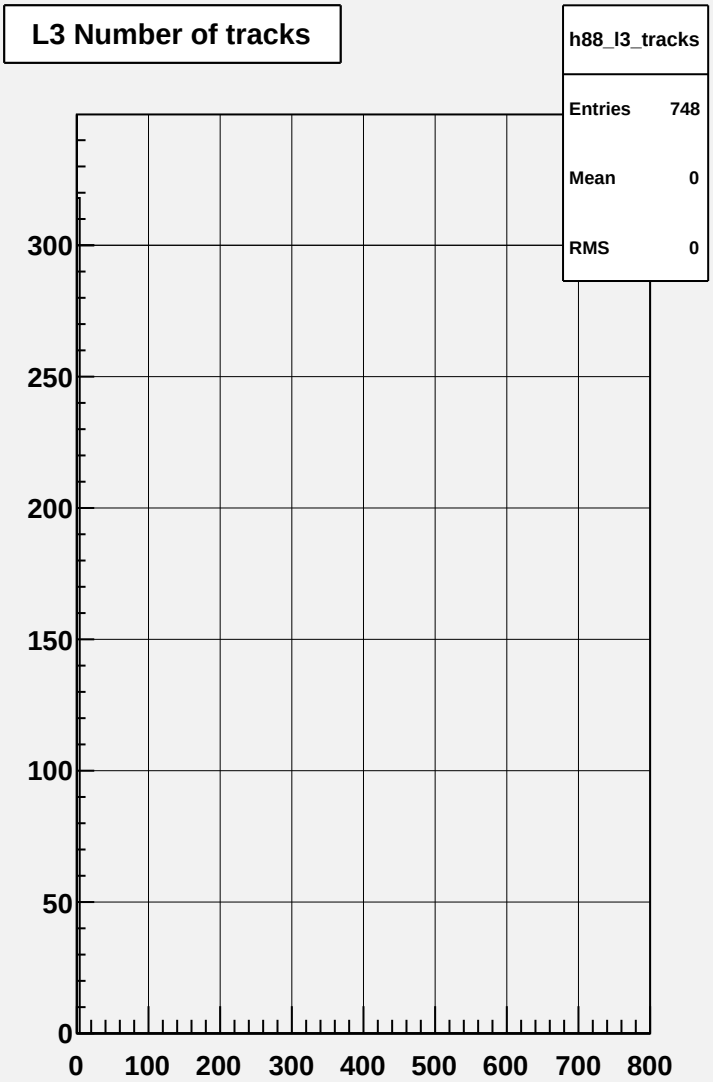

TOF Hits by TrayHalf
TOF_Tray_hits1
Entries 81519
Mean 69.23
RMS 38.51

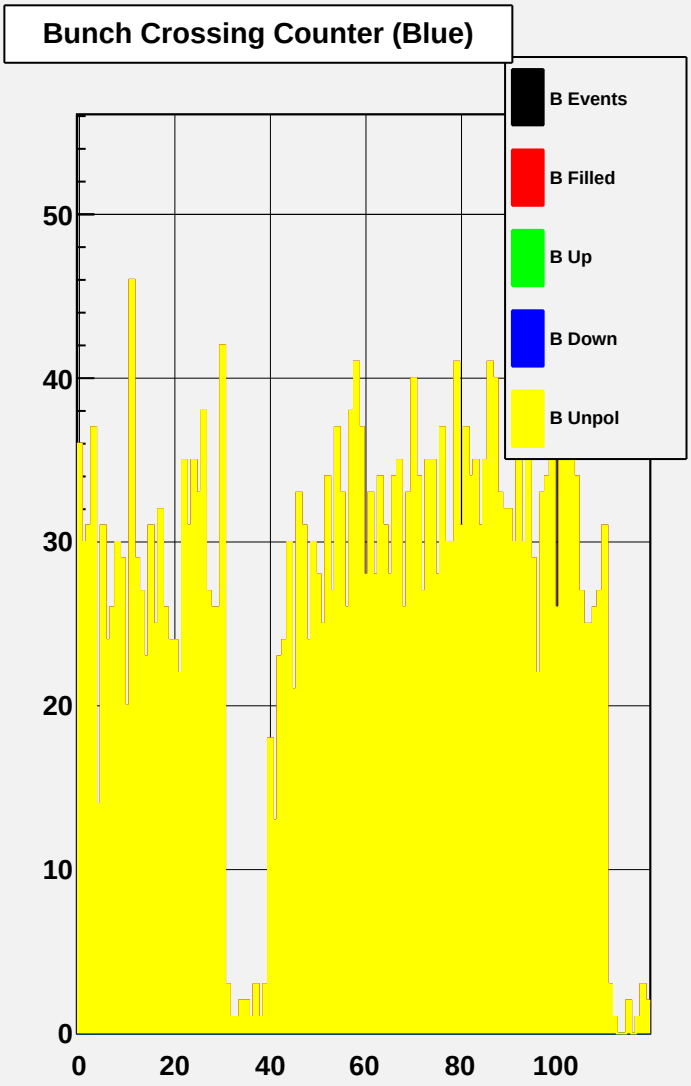

TOF hit mult: sum(TRG) vs sum(TOF)
TOF_L1_vs_sumL0
Entries 3190
Mean x 36.57
Mean y 35.18
RMS x 27.82
RMS y 26.94
TOF Mult in TRG data
TOF Mult in TOF data

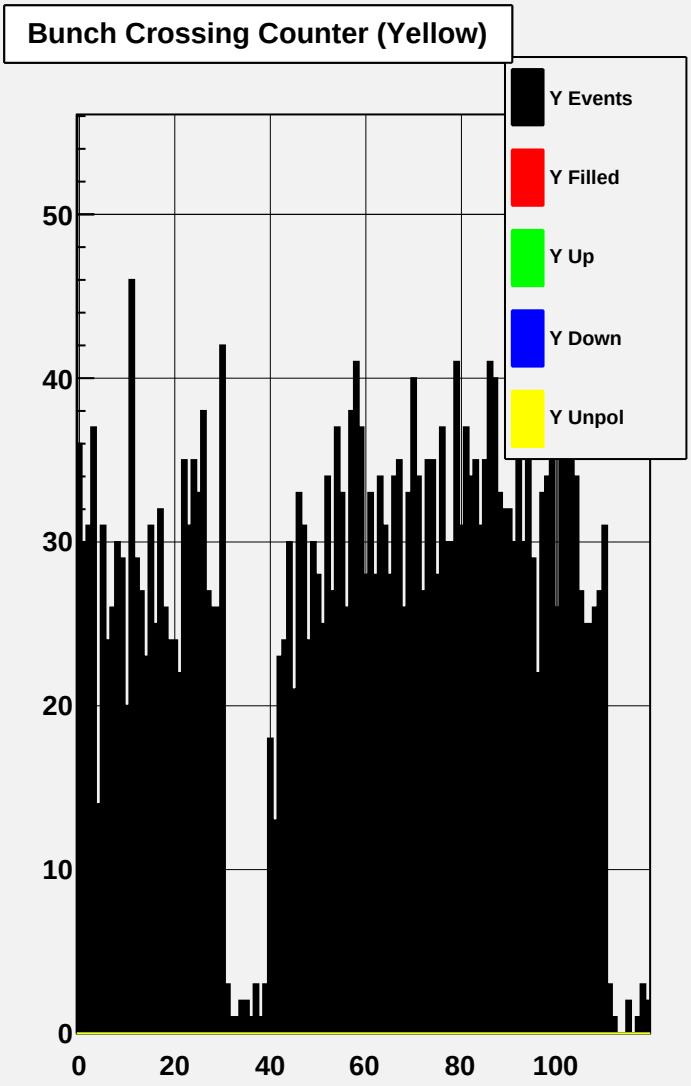

TOFmult: sum(TRG)
TOF_L1mult
Entries 3190
Mean 35.18
RMS 26.94
TOFmult from TRG data

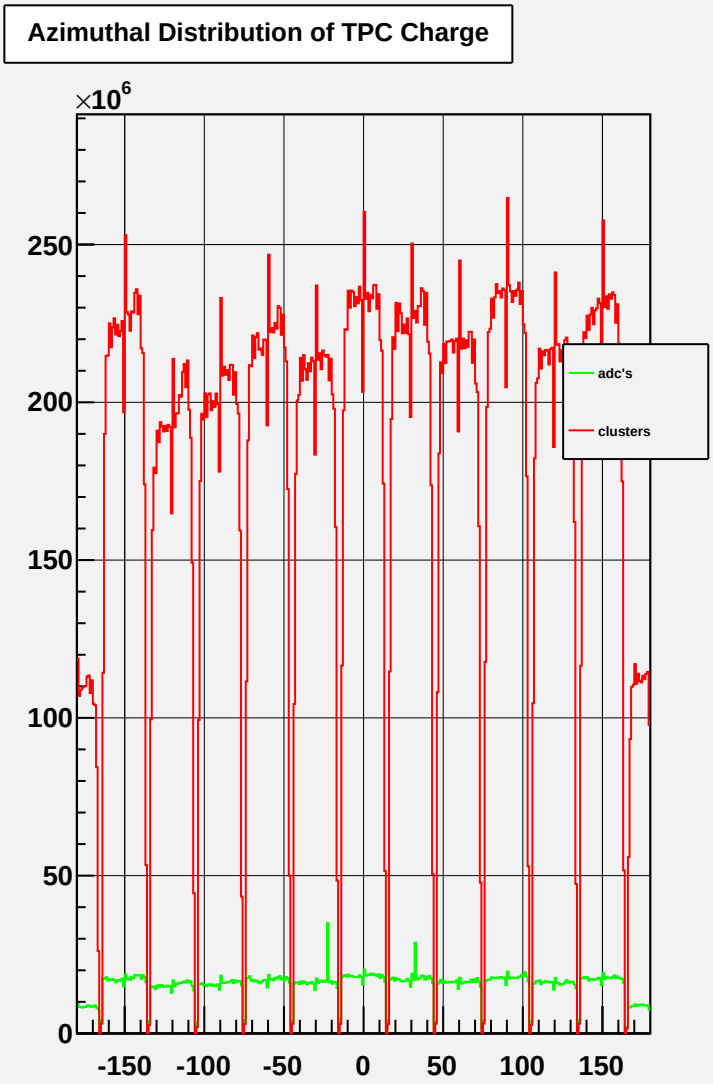

TOFmult: sum(TOF)
TOF_sumL0
Entries 3190
Mean 36.57
RMS 27.82
TOFmult from TOF data

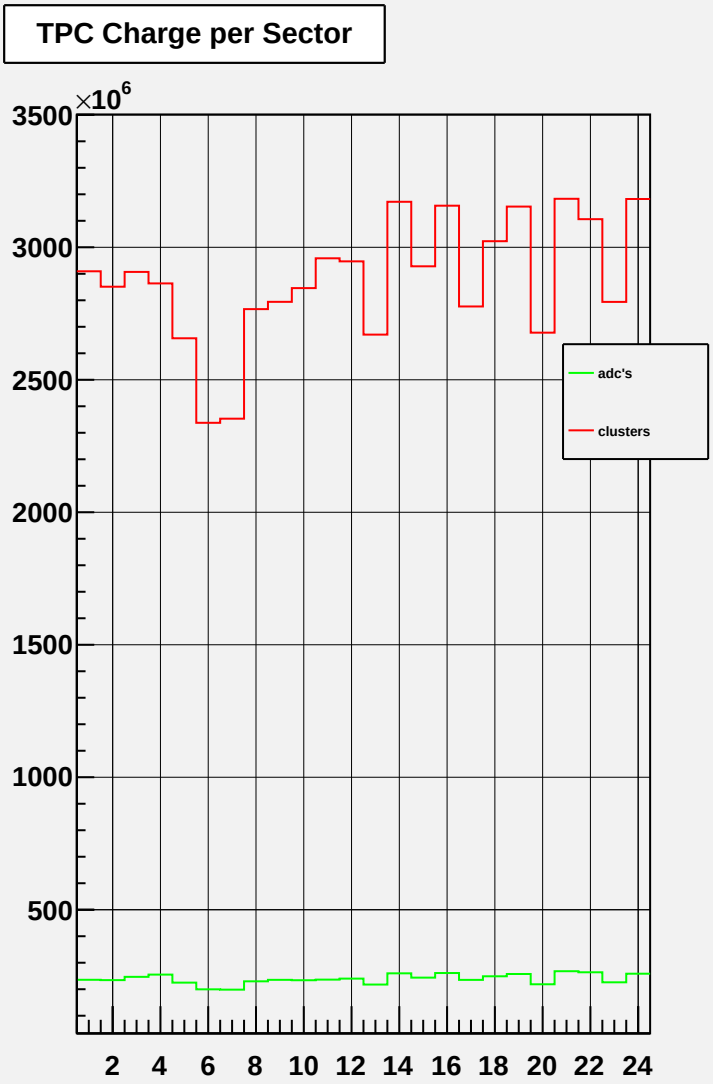

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 3191
Mean x 9650
Mean y 5.53
RMS x 8626
RMS y 11.54
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
1

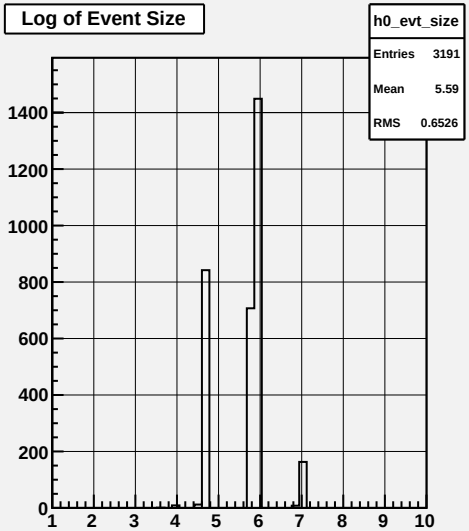

L3 Number of tracks
h88_l3_tracks
Entries 748
Mean 0
RMS 0
300
250
200
150
100
50
0
0
100
200
300
400
500
600
700
800

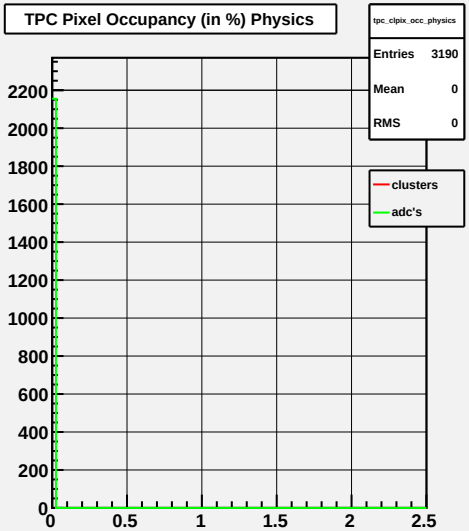

Bunch Crossing Counter (Blue)
B Events
B Filled
B Up
B Down
B Unpol
0
10
20
30
40
50
0
20
40
60
80
100

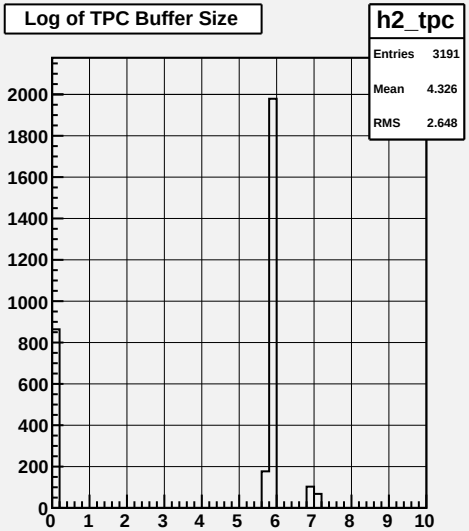

Bunch Crossing Counter (Yellow)
Y Events
Y Filled
Y Up
Y Down
Y Unpol
0
10
20
30
40
50
0
20
40
60
80
100

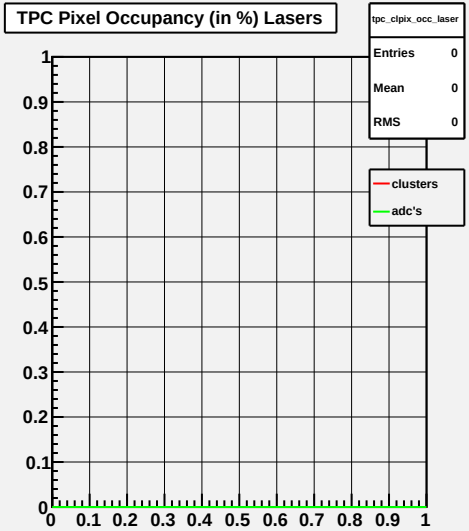

Azimuthal Distribution of TPC Charge
×10^6
250
200
150
100
50
0
-150
-100
-50
0
50
100
150
adc's
clusters

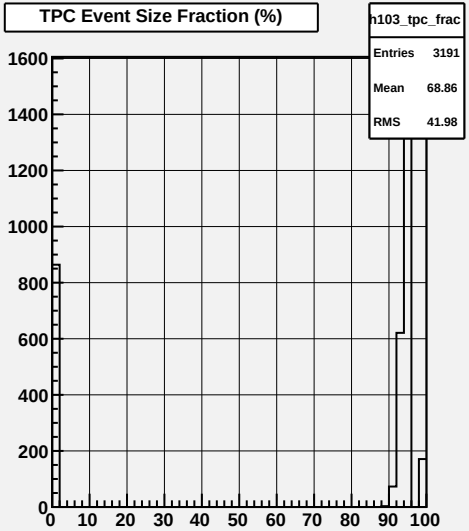

TPC Charge per Sector
×10^6
3500
3000
2500
2000
1500
1000
500
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

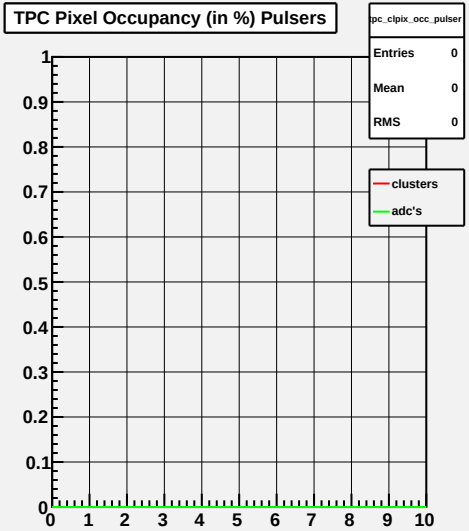

Log of Event Size
h0_evt_size
Entries 3191
Mean 5.59
RMS 0.6526

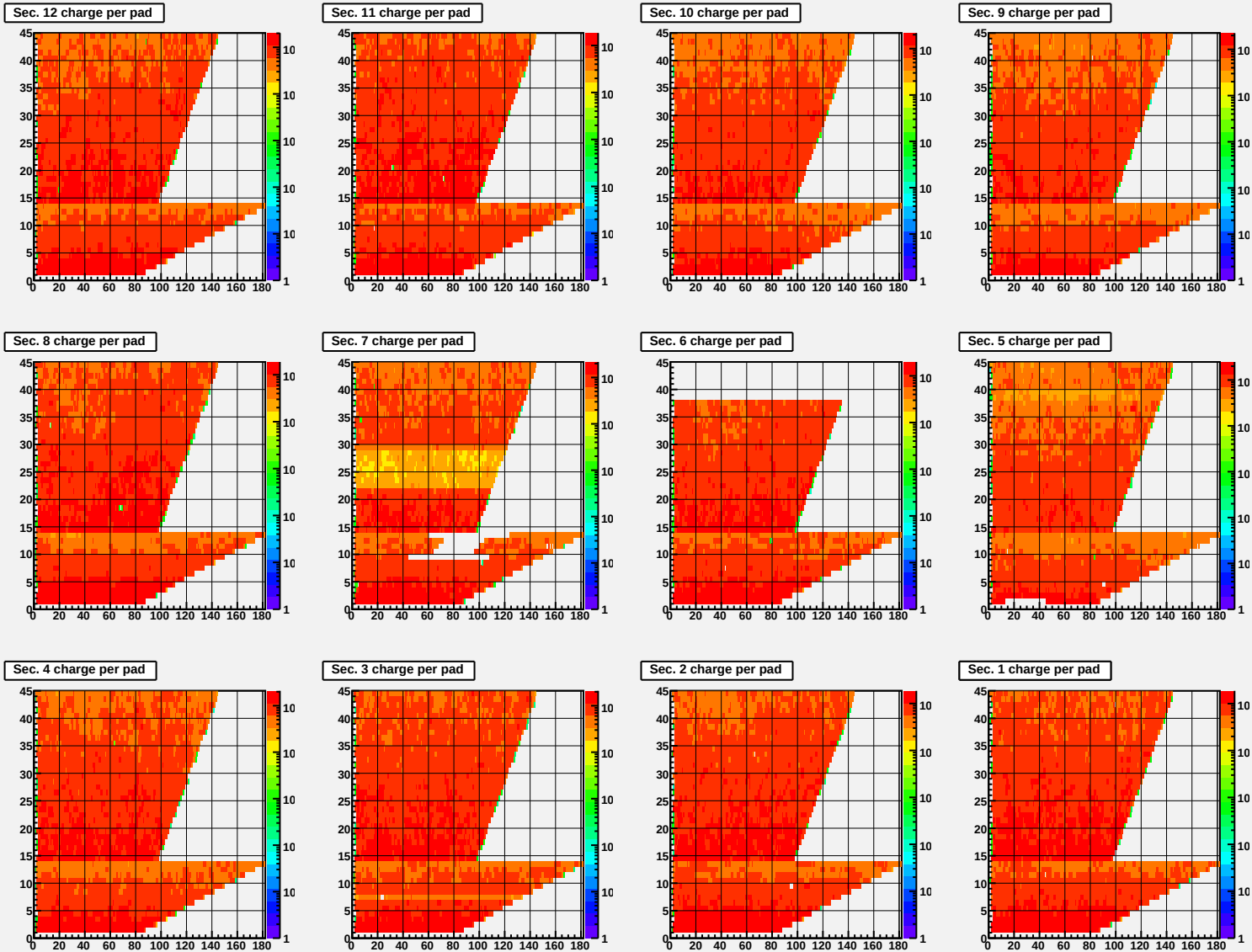

TPC Pixel Occupancy (in %) Physics
tpc_clpix_occ_physics
Entries 3190
Mean 0
RMS 0
clusters
adc's

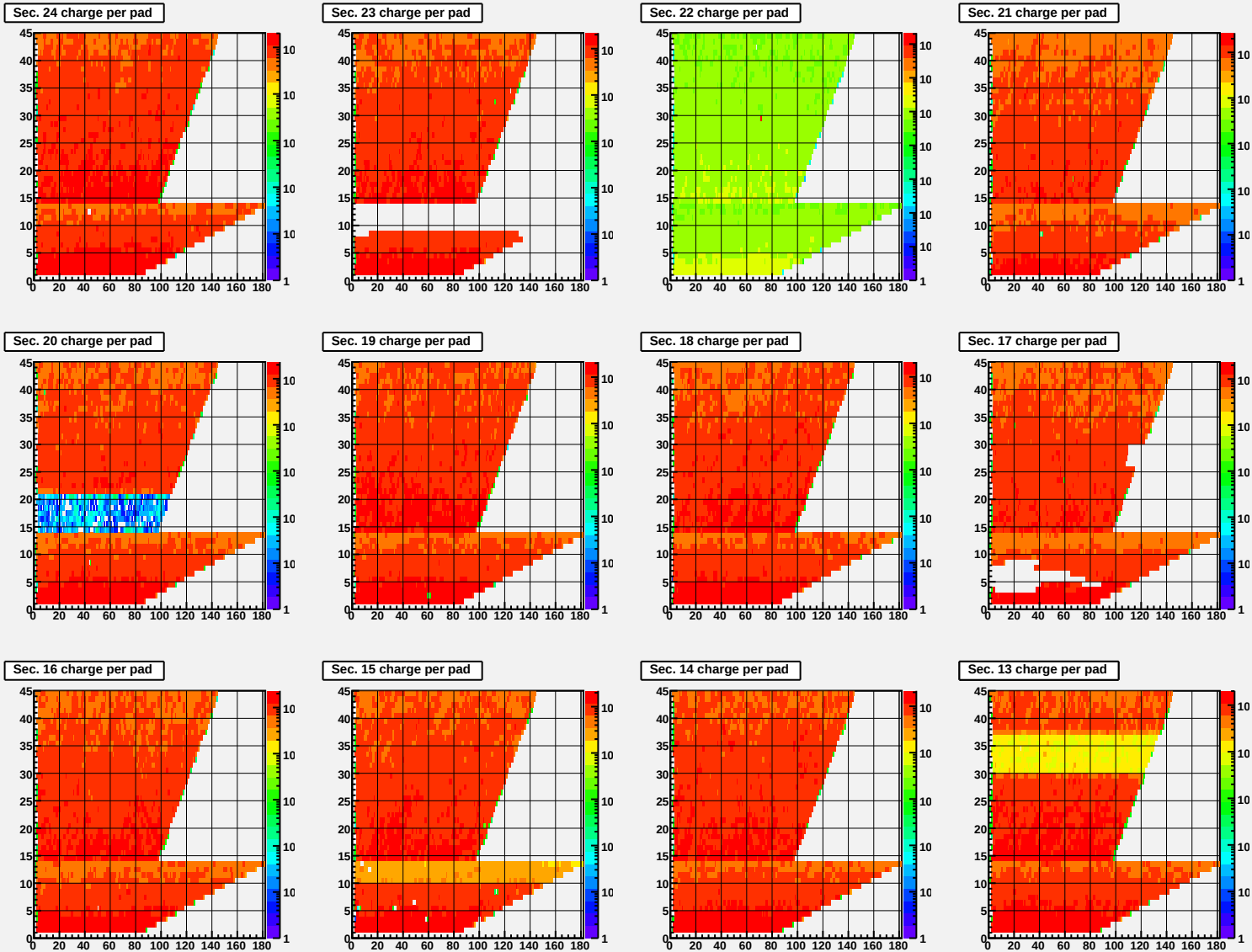

Log of TPC Buffer Size
h2_tpc
Entries 3191
Mean 4.326
RMS 2.648

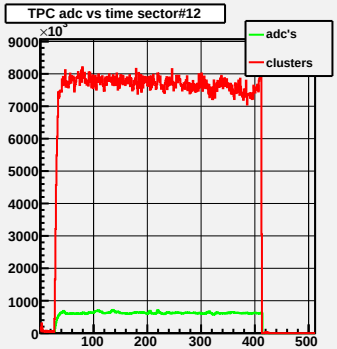

TPC Pixel Occupancy (in %) Lasers
tpc_clpix_occ_laser
Entries 0
Mean 0
RMS 0
clusters
adc's

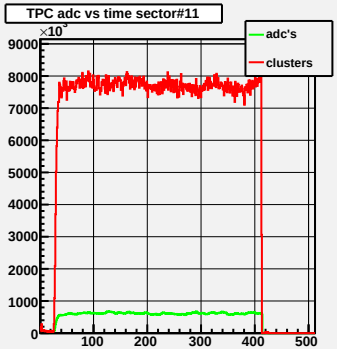

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 3191
Mean 68.86
RMS 41.98

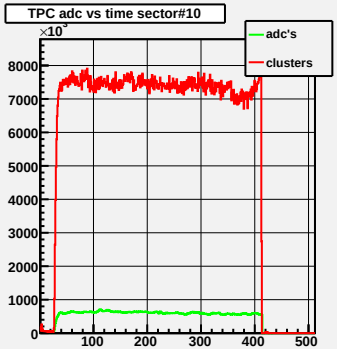

TPC Pixel Occupancy (in %) Pulsers
tpc_clpix_occ_pulser
Entries 0
Mean 0
RMS 0
clusters
adc's

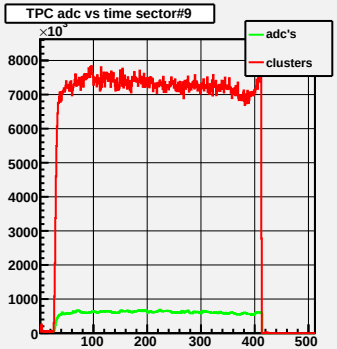

Sec. 12 charge per pad
Sec. 11 charge per pad
Sec. 10 charge per pad
Sec. 9 charge per pad
Sec. 8 charge per pad
Sec. 7 charge per pad
Sec. 6 charge per pad
Sec. 5 charge per pad
Sec. 4 charge per pad
Sec. 3 charge per pad
Sec. 2 charge per pad
Sec. 1 charge per pad

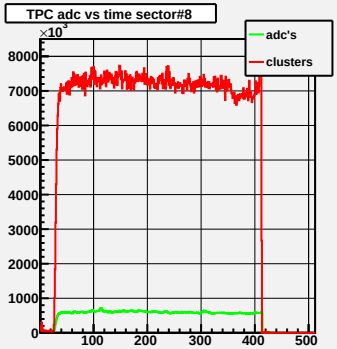

Sec. 24 charge per pad
Sec. 23 charge per pad
Sec. 22 charge per pad
Sec. 21 charge per pad
Sec. 20 charge per pad
Sec. 19 charge per pad
Sec. 18 charge per pad
Sec. 17 charge per pad
Sec. 16 charge per pad
Sec. 15 charge per pad
Sec. 14 charge per pad
Sec. 13 charge per pad

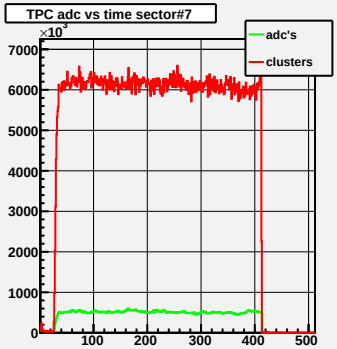

TPC adc vs time sector#12
adc's
clusters

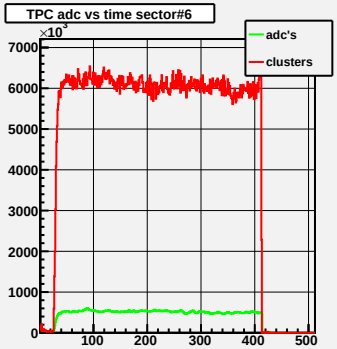

TPC adc vs time sector#11
adc's
clusters

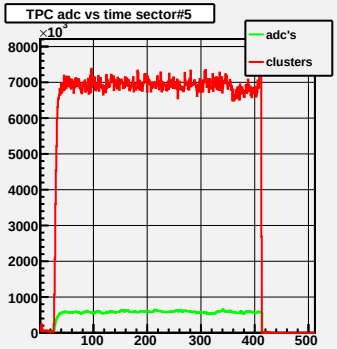

TPC adc vs time sector#10
adc's
clusters

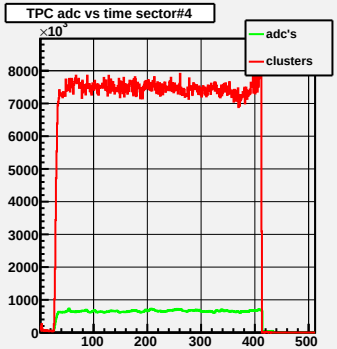

TPC adc vs time sector#9
adc's
clusters

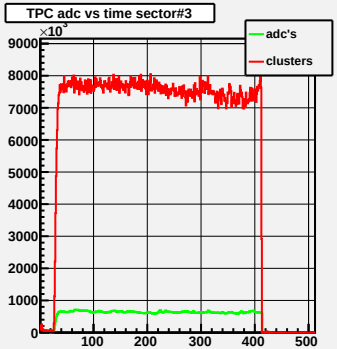

TPC adc vs time sector#8
adc's
clusters

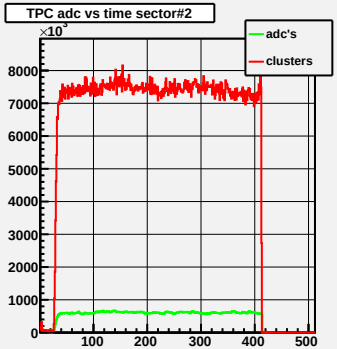

TPC adc vs time sector#7
adc's
clusters

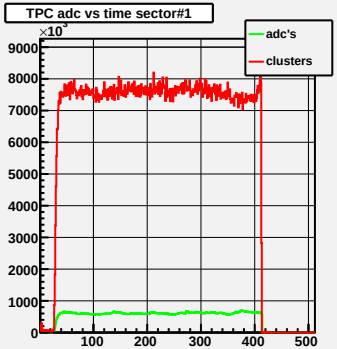

TPC adc vs time sector#6
adc's
clusters

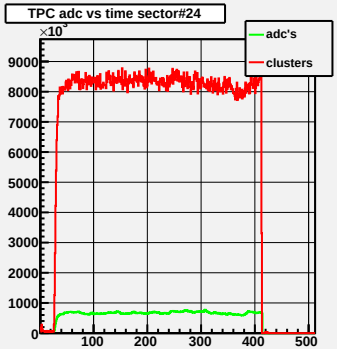

TPC adc vs time sector#5
adc's
clusters

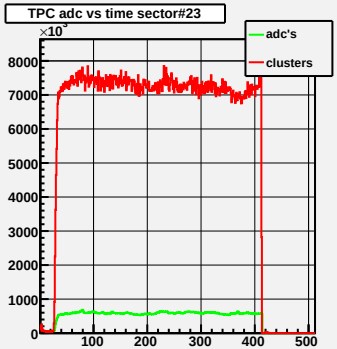

TPC adc vs time sector#4
adc's
clusters

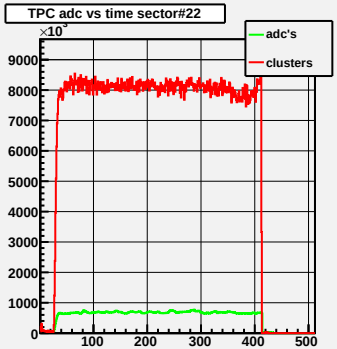

TPC adc vs time sector#3
adc's
clusters

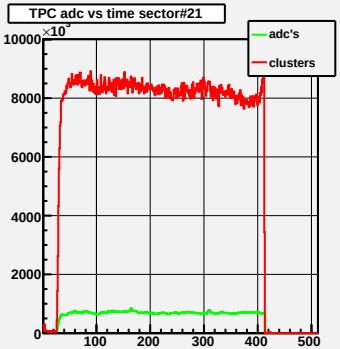

TPC adc vs time sector#2
adc's
clusters

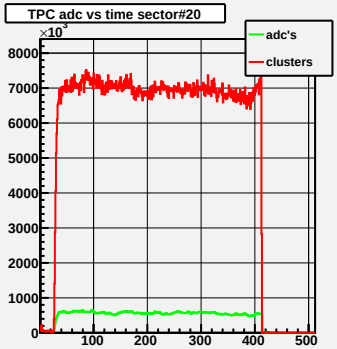

TPC adc vs time sector#1
adc's
clusters

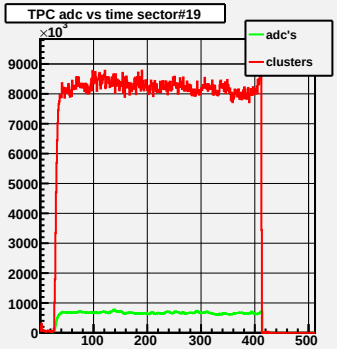

TPC adc vs time sector#24
adc's
clusters

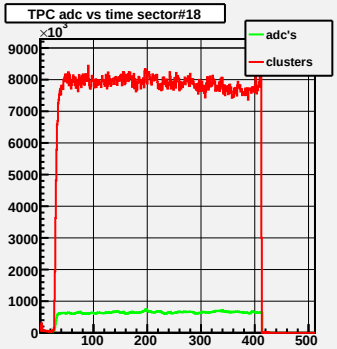

TPC adc vs time sector#23
adc's
clusters

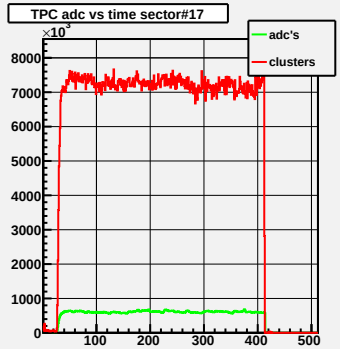

TPC adc vs time sector#22
adc's
clusters

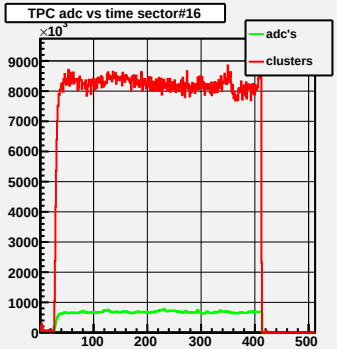

TPC adc vs time sector#21
adc's
clusters

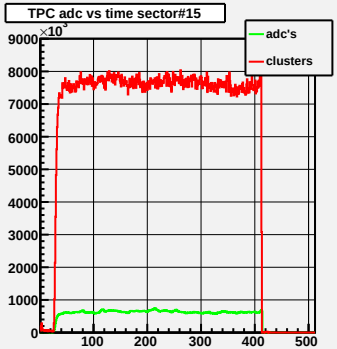

TPC adc vs time sector#20
adc's
clusters

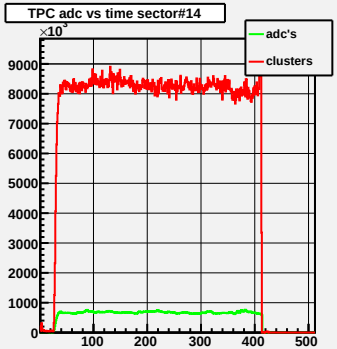

TPC adc vs time sector#19
adc's
clusters

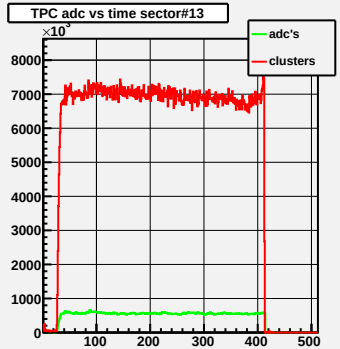

TPC adc vs time sector#18
adc's
clusters

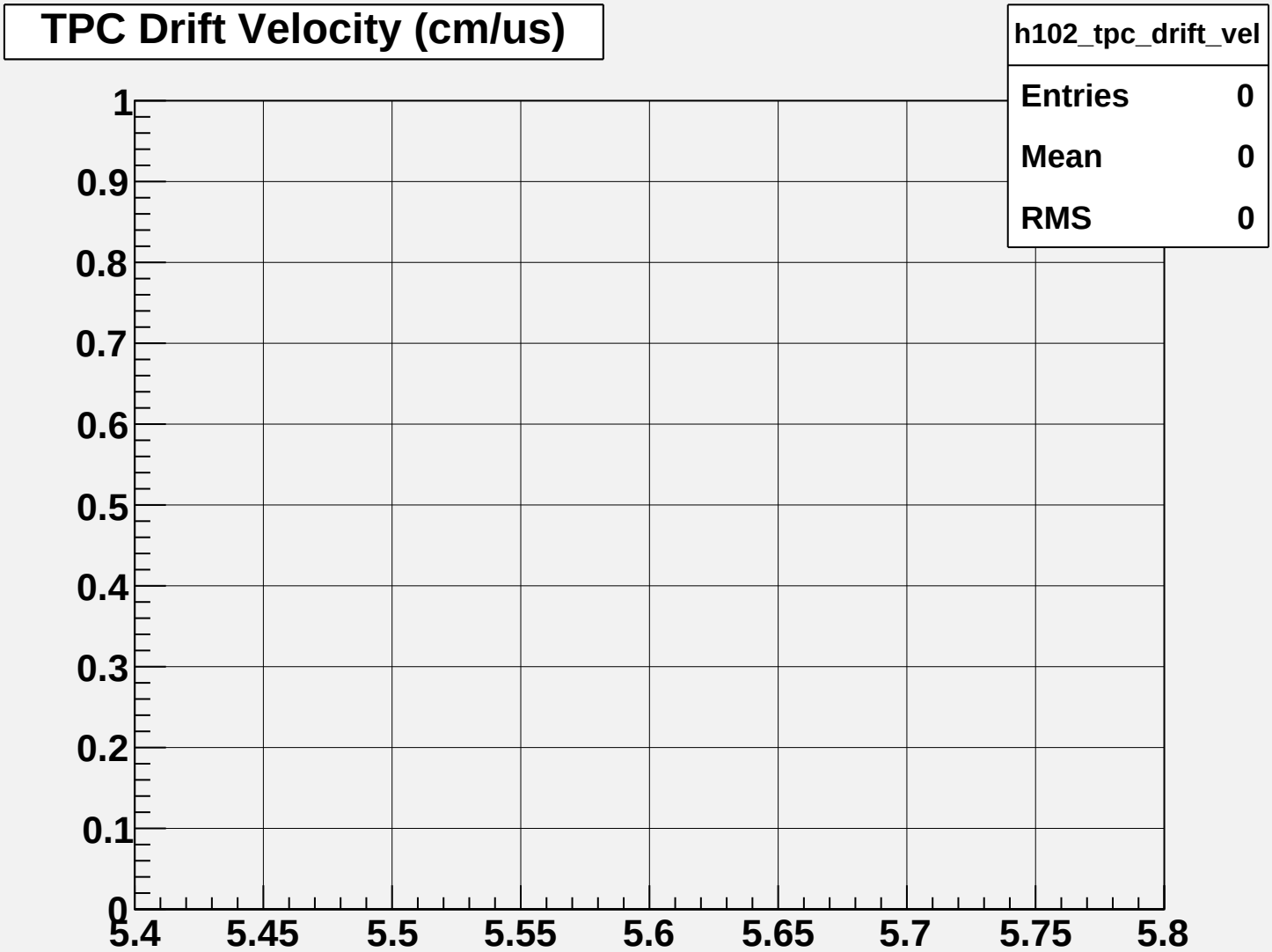

TPC adc vs time sector#17
adc's
clusters

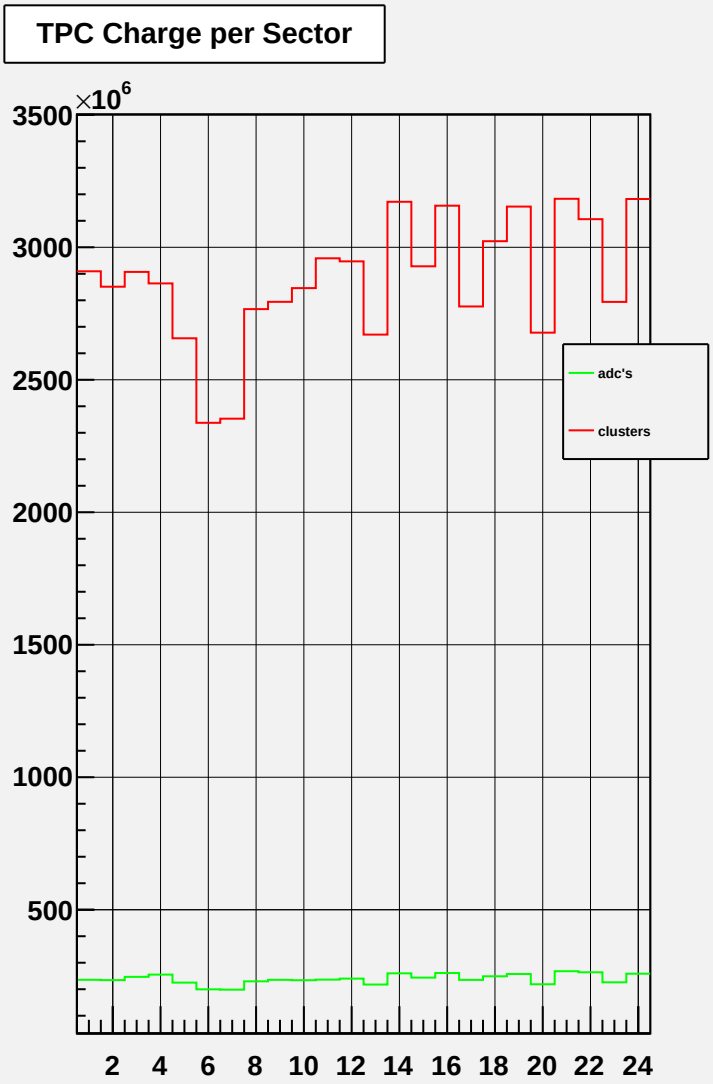

TPC adc vs time sector#16
adc's
clusters

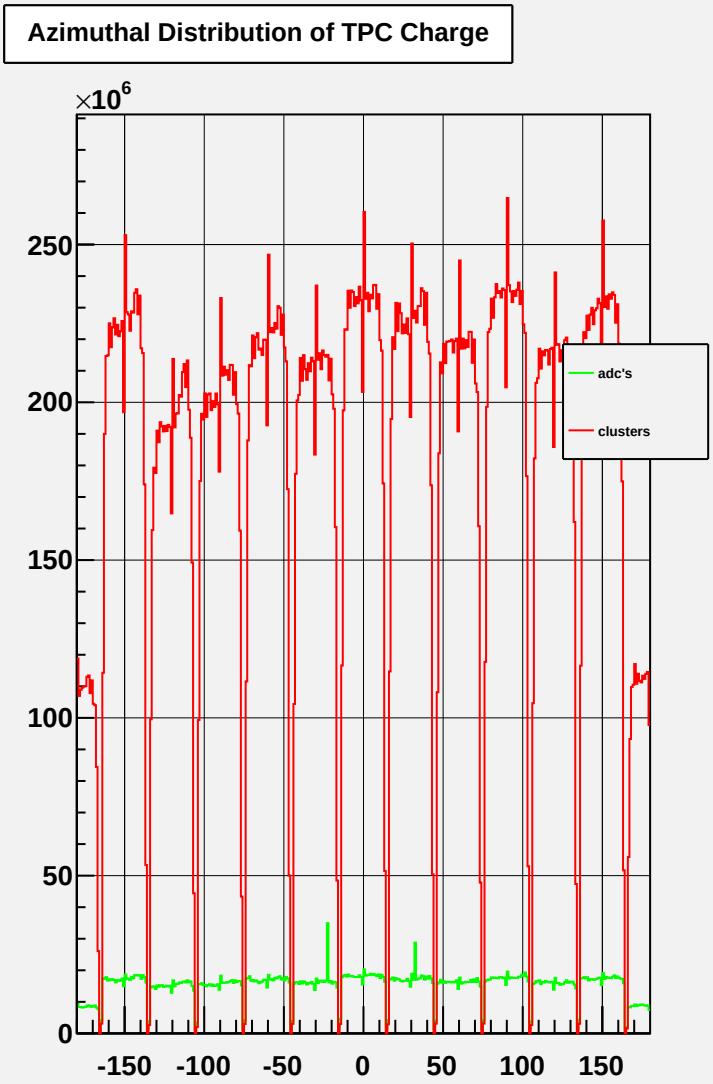

TPC adc vs time sector#15
adc's
clusters

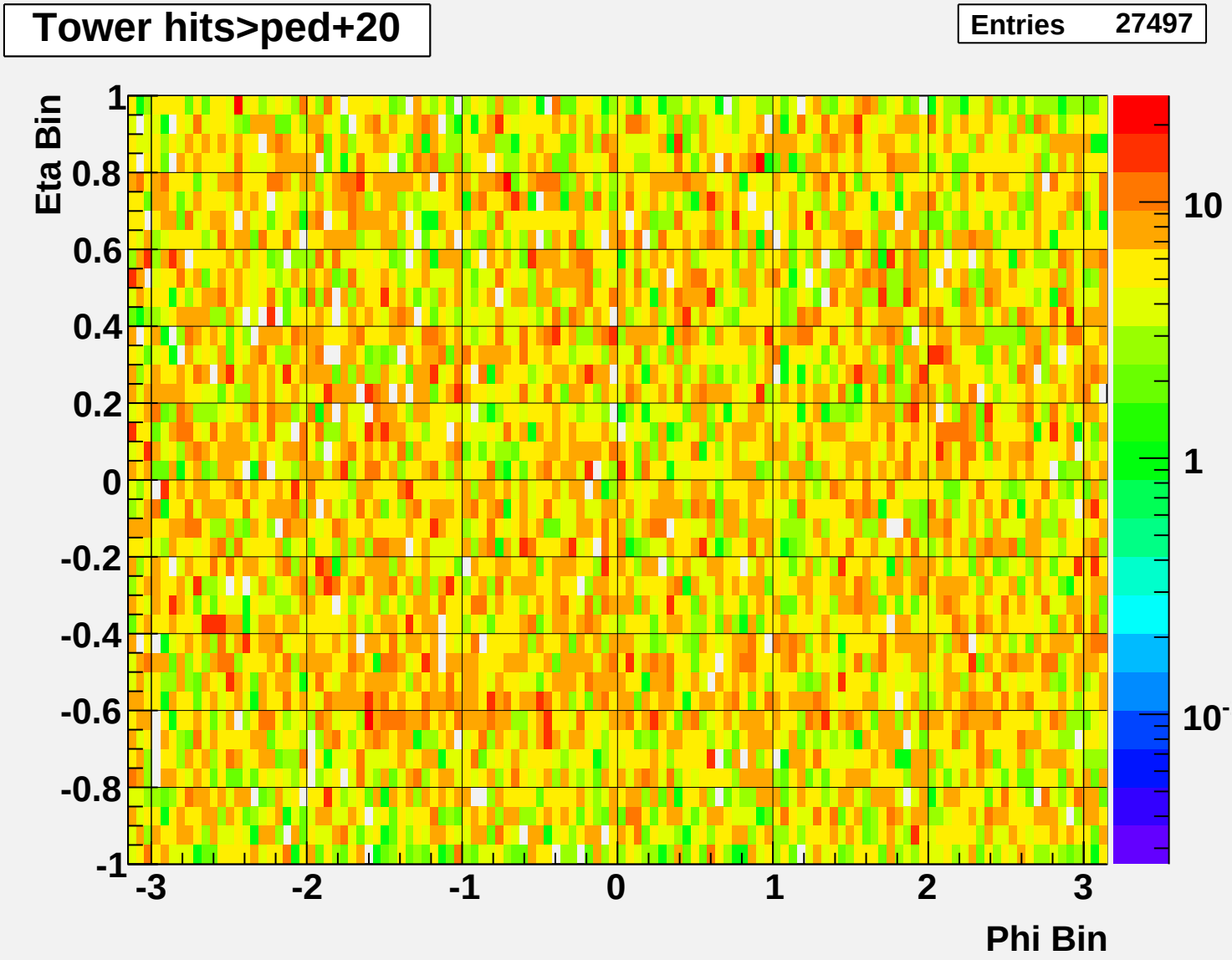

TPC adc vs time sector#14
adc's
clusters

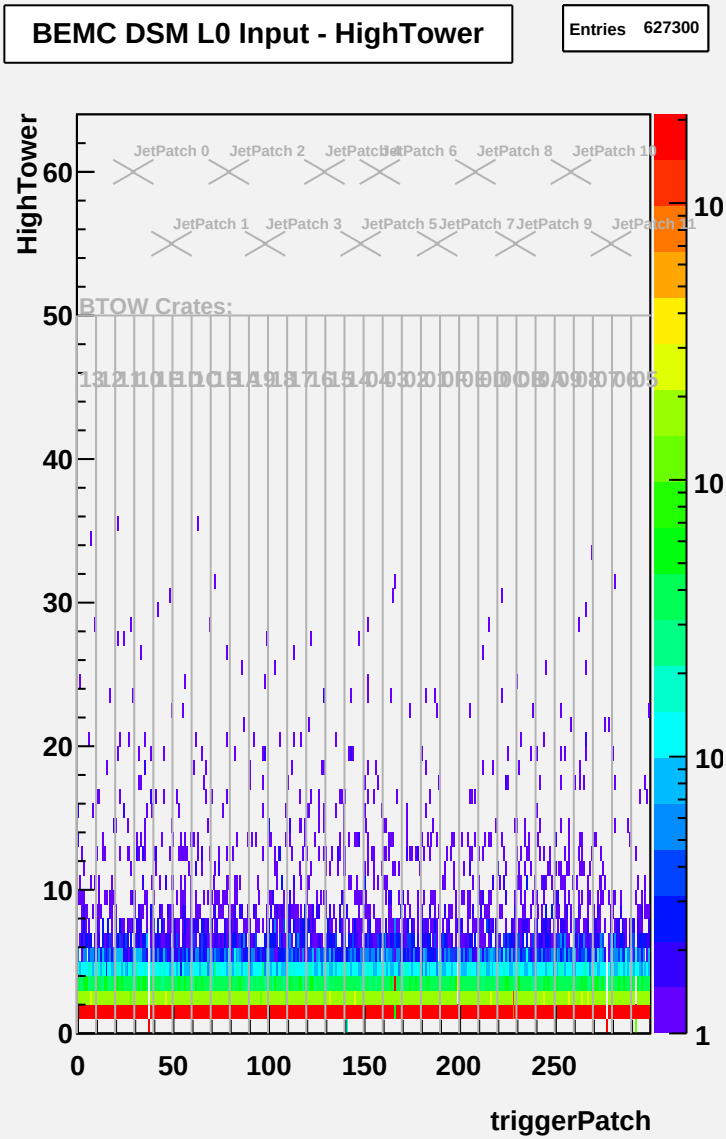

TPC adc vs time sector#13
adc's
clusters

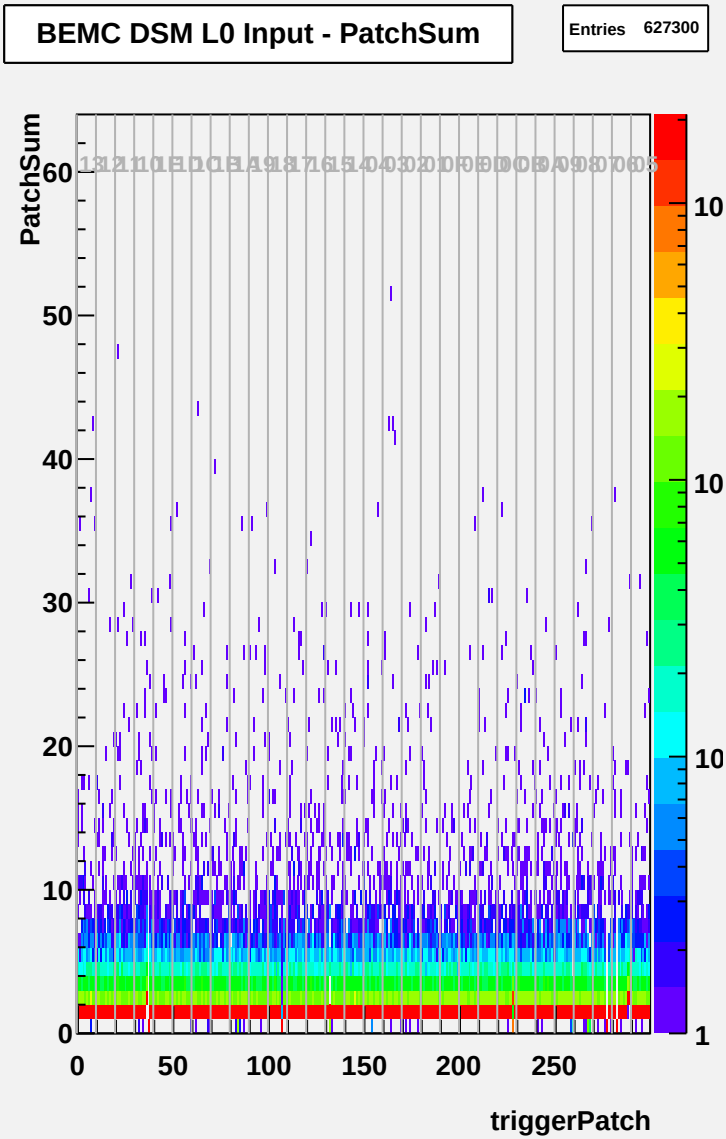

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

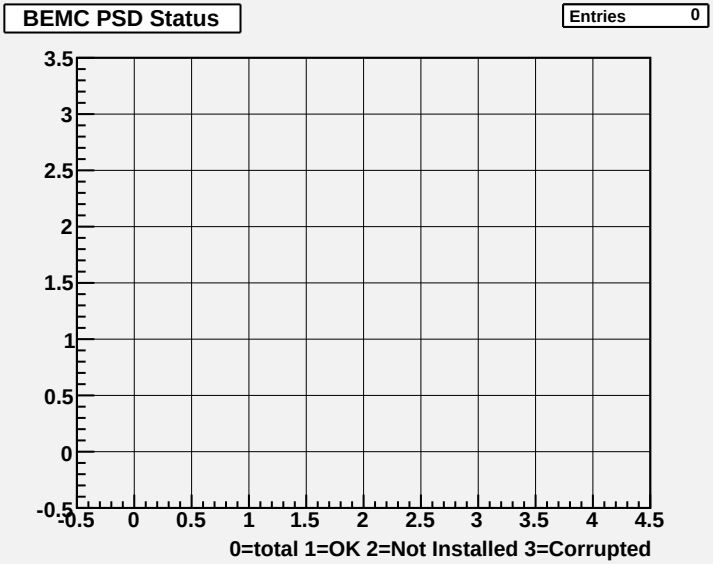

TPC Charge per Sector
×10^6
3500
3000
2500
2000
1500
1000
500
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

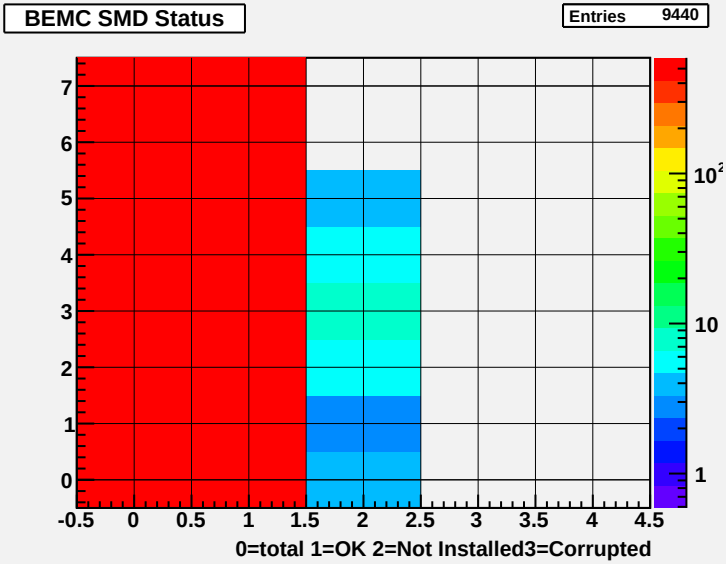

Azimuthal Distribution of TPC Charge
×10^6
250
200
150
100
50
0
-150
-100
-50
0
50
100
150
adc's
clusters

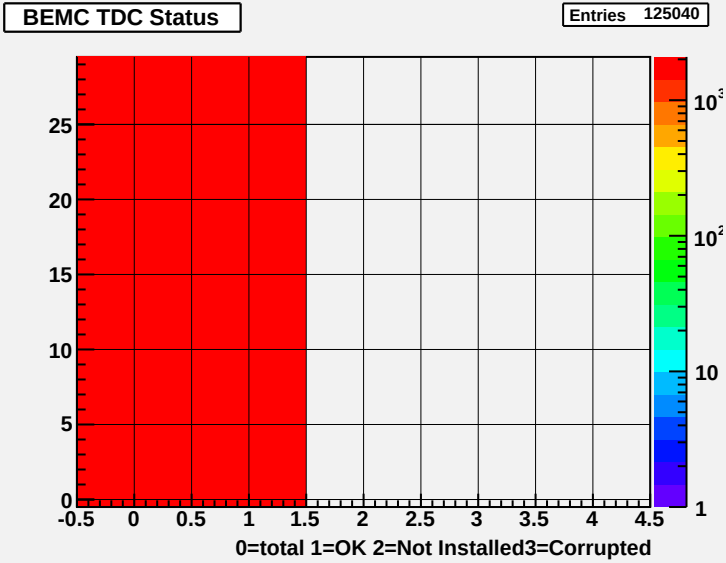

Tower hits>ped+20
Entries 27497
Eta Bin
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-3
-2
-1
0
1
2
3
Phi Bin
10
1
10

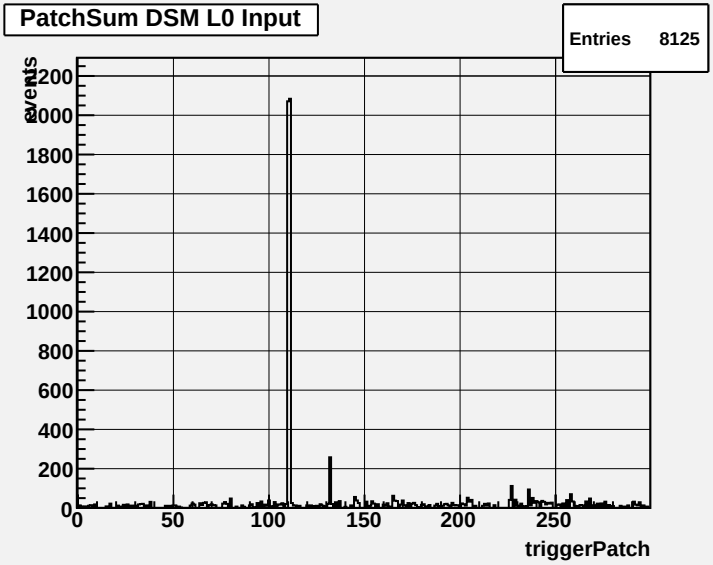

BEMC DSM L0 Input - HighTower
Entries 627300
HighTower
triggerPatch
JetPatch 0
JetPatch 2
JetPatch 4
JetPatch 6
JetPatch 8
JetPatch 10
JetPatch 1
JetPatch 3
JetPatch 5
JetPatch 7
JetPatch 9
JetPatch 11
BTOW Crates:

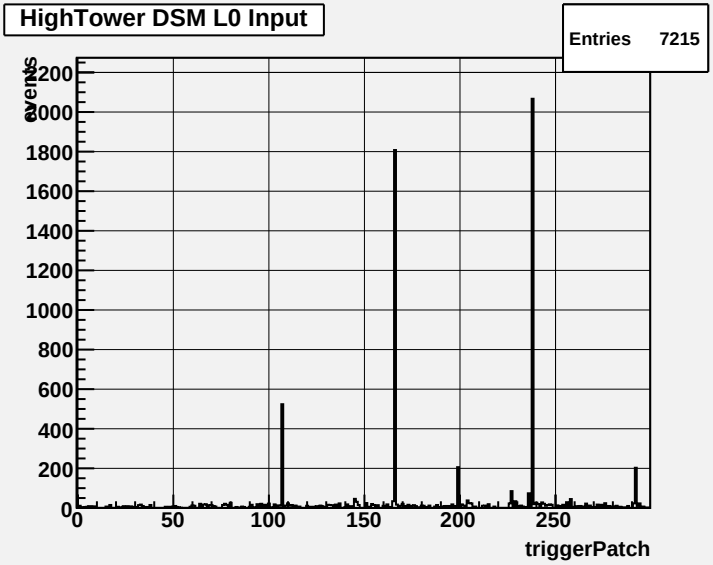

BEMC DSM L0 Input - PatchSum
Entries 627300
PatchSum
triggerPatch

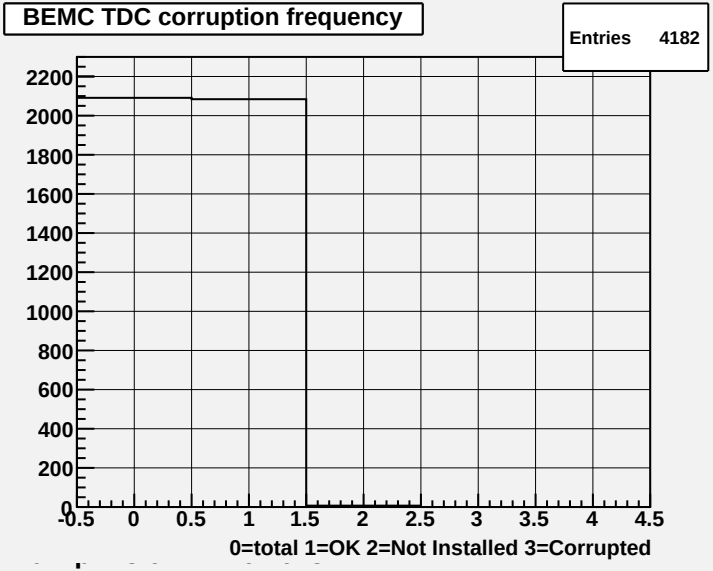

BEMC PSD Status
Entries 0
0=total 1=OK 2=Not Installed 3=Corrupted

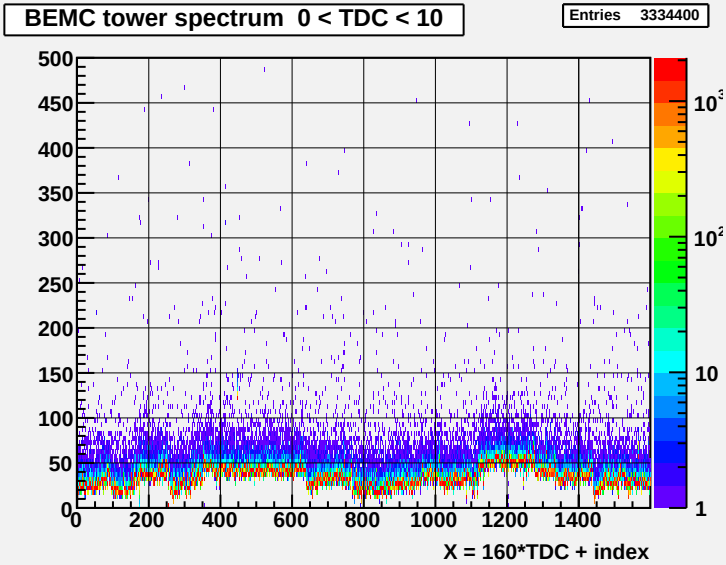

BEMC SMD Status
Entries 9440
0=total 1=OK 2=Not Installed3=Corrupted

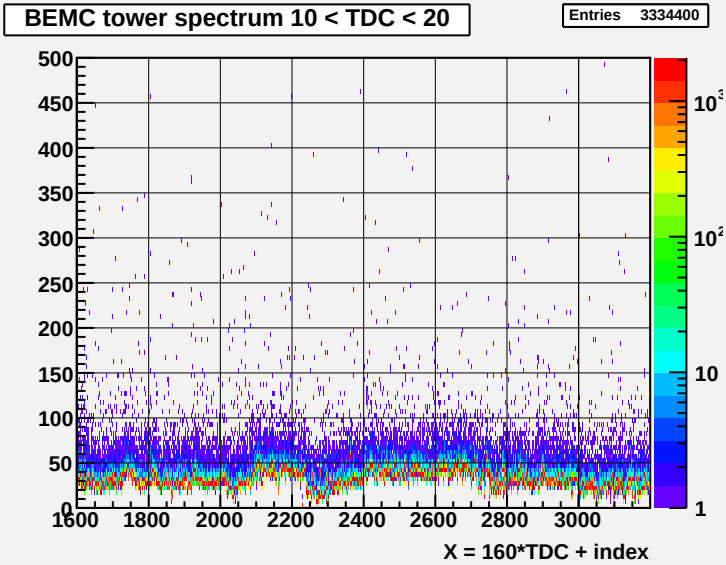

BEMC TDC Status
Entries 125040
0=total 1=OK 2=Not Installed3=Corrupted

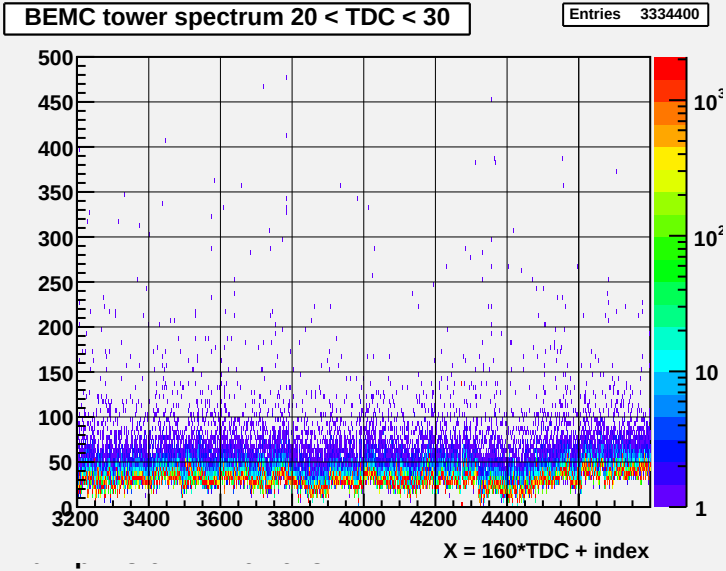

PatchSum DSM L0 Input
Entries 8125
events
triggerPatch

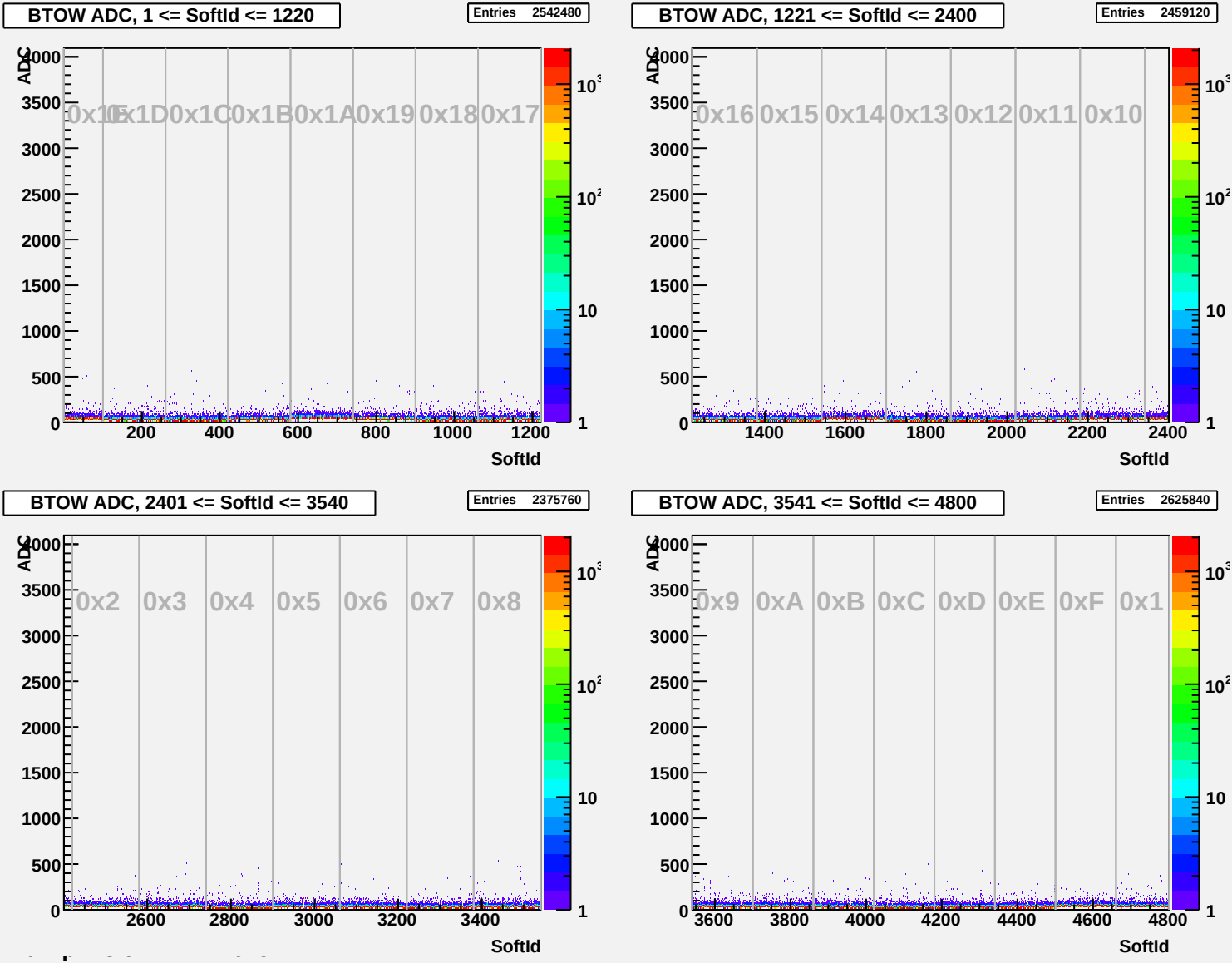

HighTower DSM L0 Input
Entries 7215
events
triggerPatch

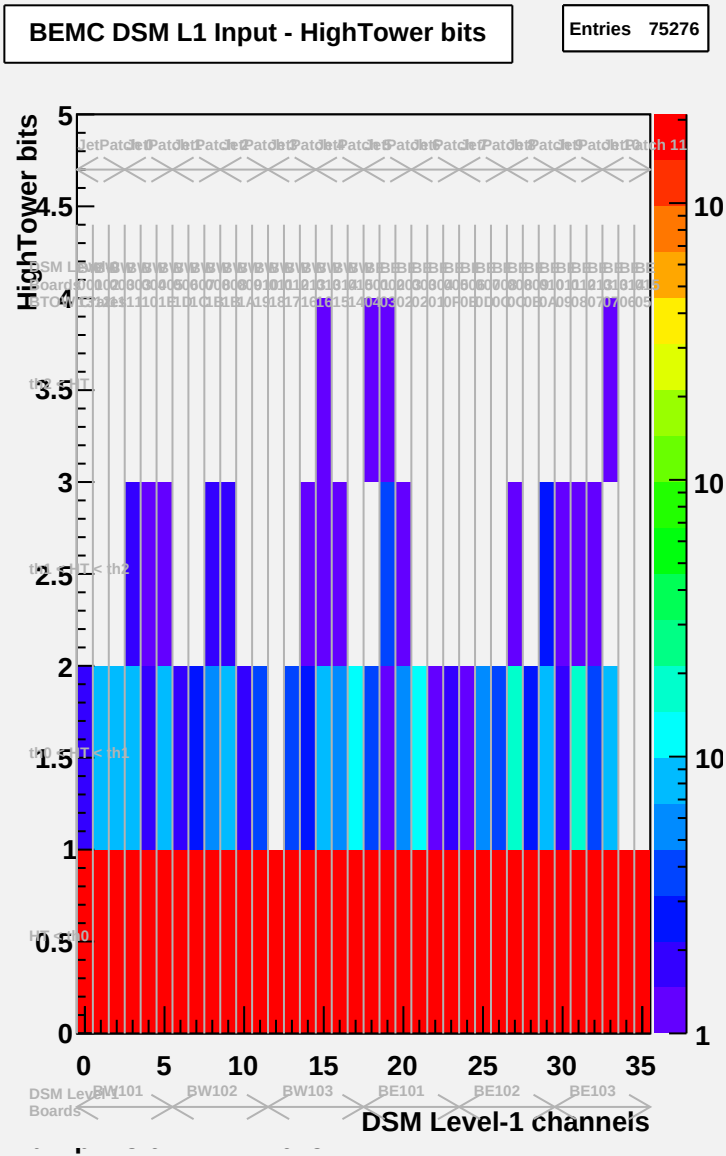

BEMC TDC corruption frequency
Entries 4182
0=total 1=OK 2=Not Installed 3=Corrupted

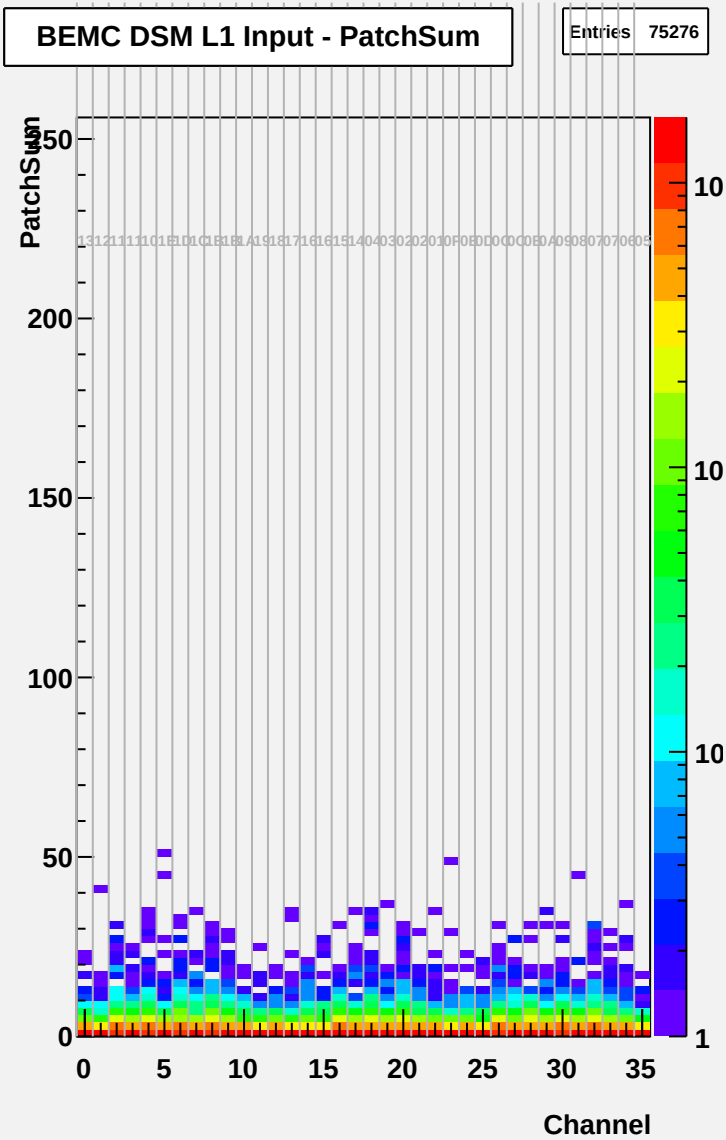

BEMC tower spectrum 0 < TDC < 10
Entries 3334400
X = 160*TDC + index

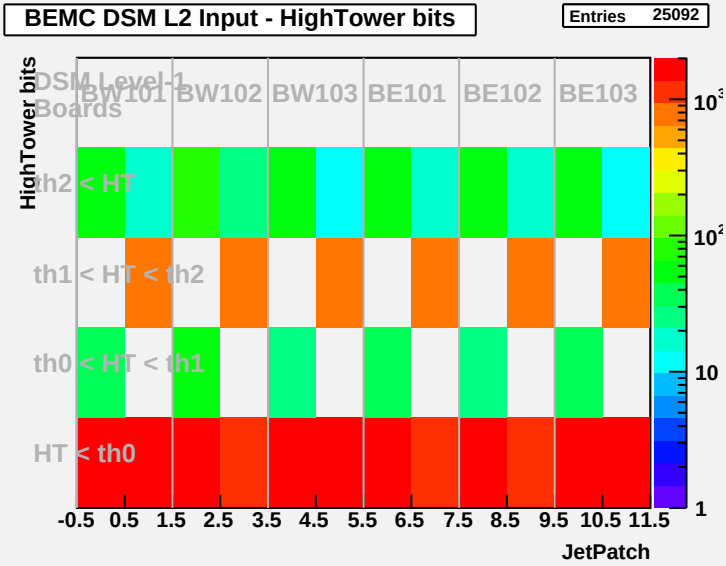

BEMC tower spectrum 10 < TDC < 20
Entries 3334400
X = 160*TDC + index

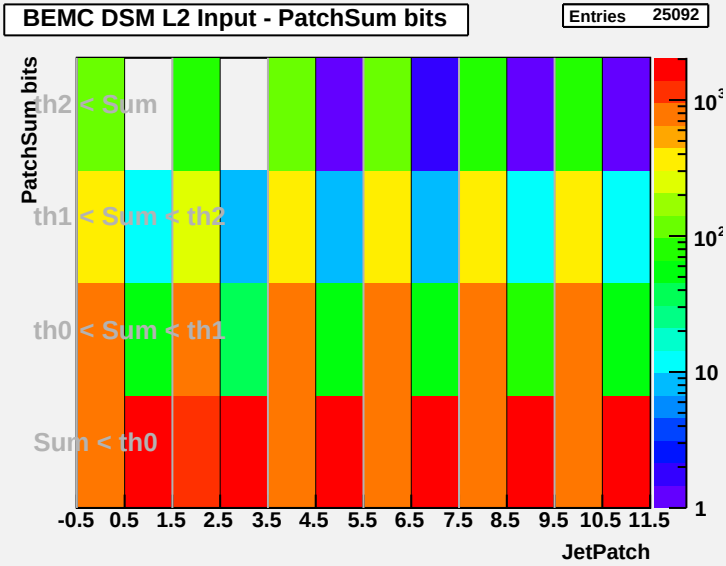

BEMC tower spectrum 20 < TDC < 30
Entries 3334400
X = 160*TDC + index

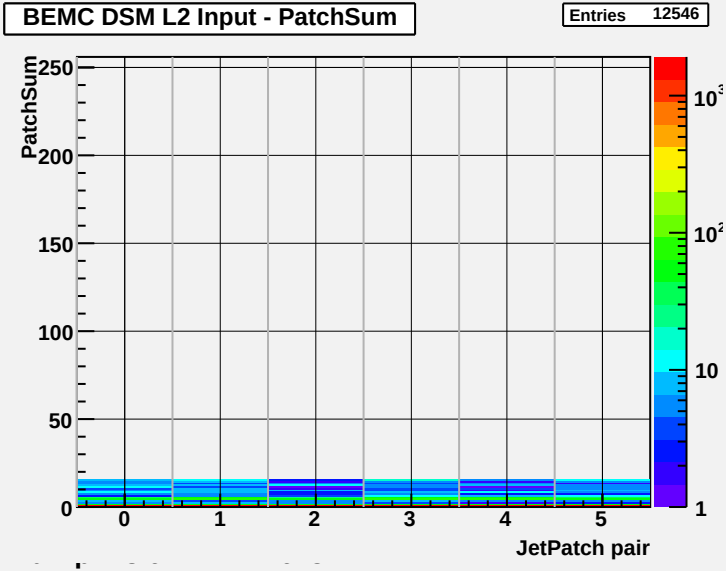

BTOW ADC, 1 <= SoftId <= 1220
Entries 2542480
BTOW ADC, 1221 <= SoftId <= 2400
Entries 2459120
BTOW ADC, 2401 <= SoftId <= 3540
Entries 2375760
BTOW ADC, 3541 <= SoftId <= 4800
Entries 2625840
ADC
SoftId
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
0x16 0x15 0x14 0x13 0x12 0x11 0x10
0x2 0x3 0x4 0x5 0x6 0x7 0x8
0x9 0xA 0xB 0xC 0xD 0xE 0xF 0x1

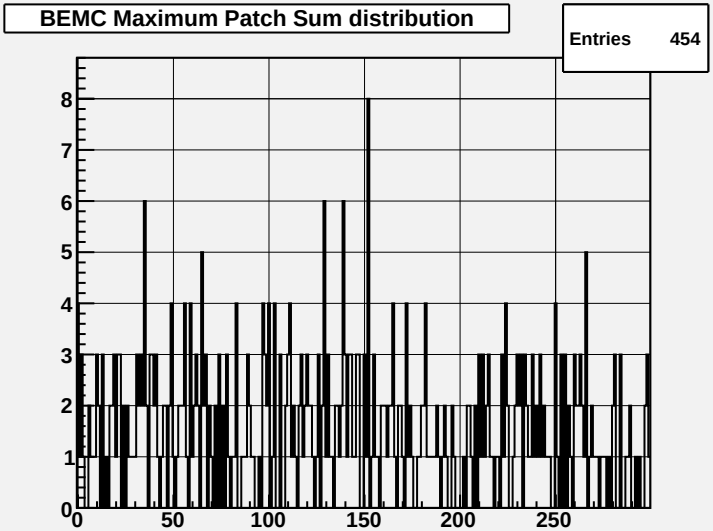

BEMC DSM L1 Input - HighTower bits
Entries 75276
HighTower bits
DSM Level-1 channels
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103

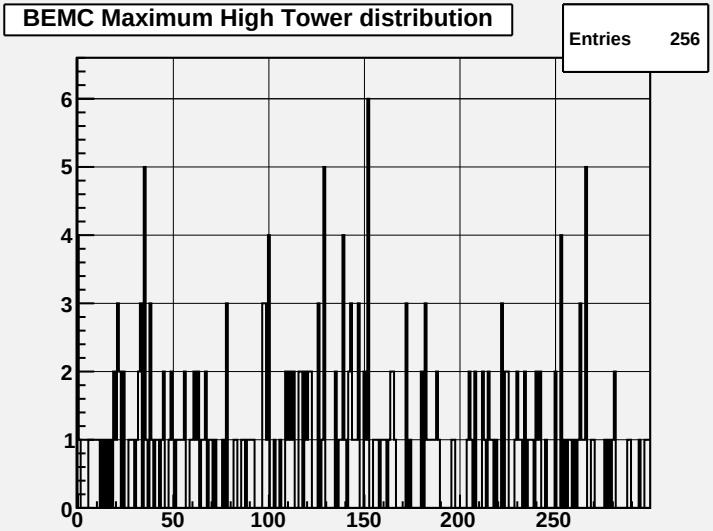

BEMC DSM L1 Input - PatchSum
Entries 75276
PatchSum
Channel

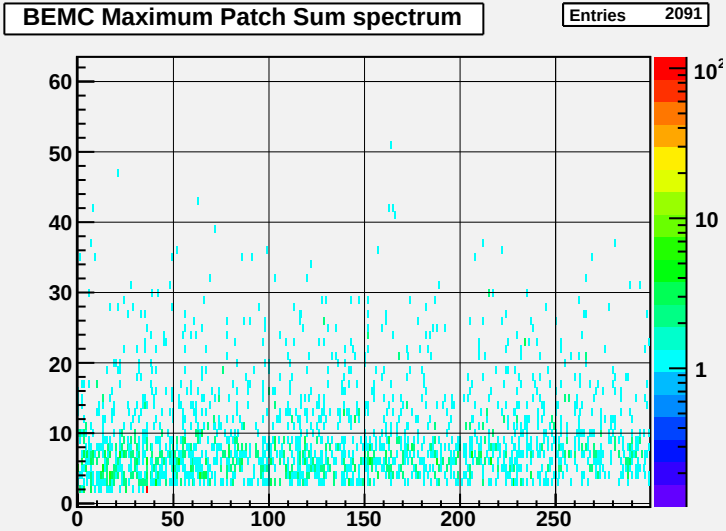

BEMC DSM L2 Input - HighTower bits
Entries 25092
DSM Level-1 Boards
BW101 BW102 BW103 BE101 BE102 BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
HighTower bits
JetPatch
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
1 10 10² 10³

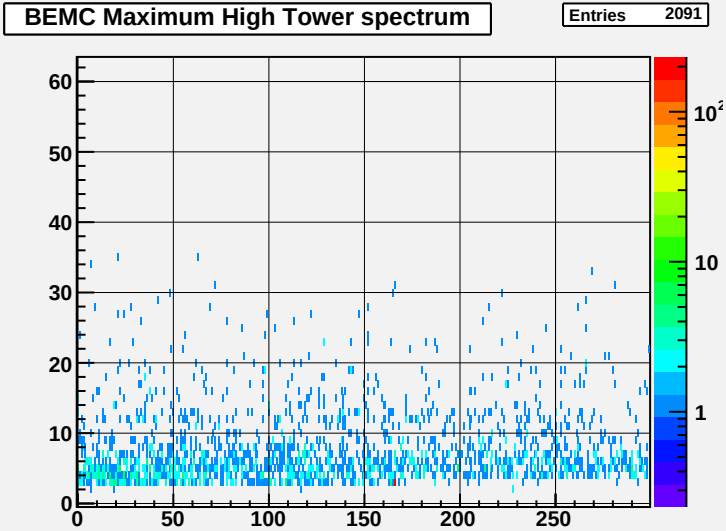

BEMC DSM L2 Input - PatchSum bits
Entries 25092
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
PatchSum bits
JetPatch
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
1 10 10² 10³

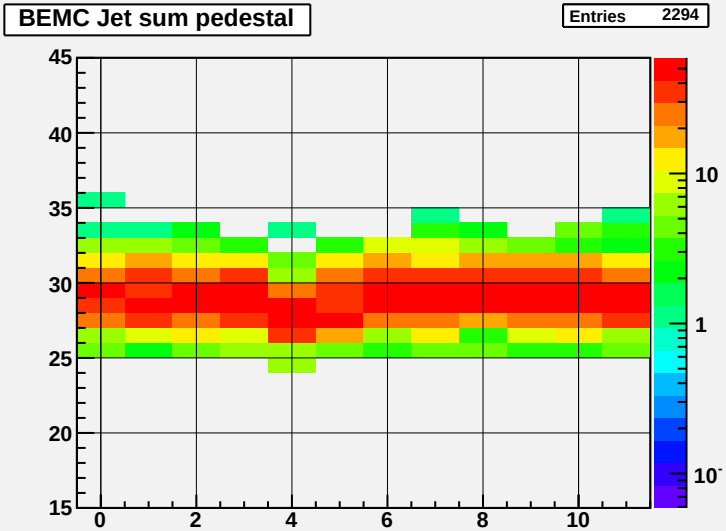

BEMC DSM L2 Input - PatchSum
Entries 12546
PatchSum
0 50 100 150 200 250
JetPatch pair
0 1 2 3 4 5
1 10 10² 10³

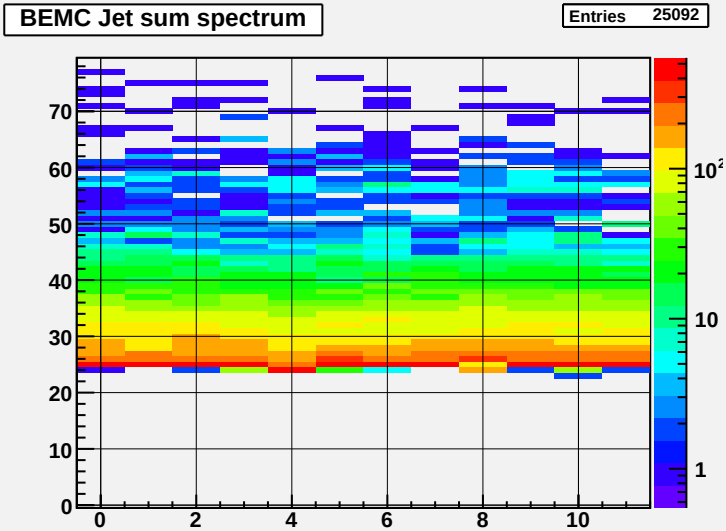

BEMC Maximum Patch Sum distribution
Entries 454
0
1
2
3
4
5
6
7
8
0
50
100
150
200
250

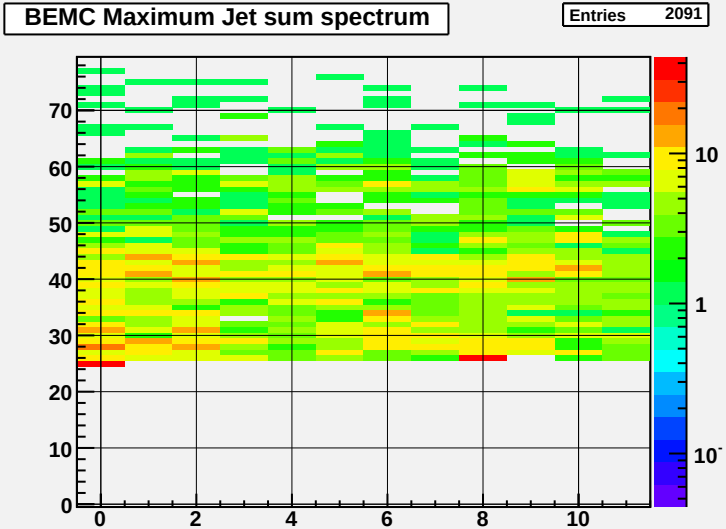

BEMC Maximum High Tower distribution
Entries 256
0
1
2
3
4
5
6
0
50
100
150
200
250

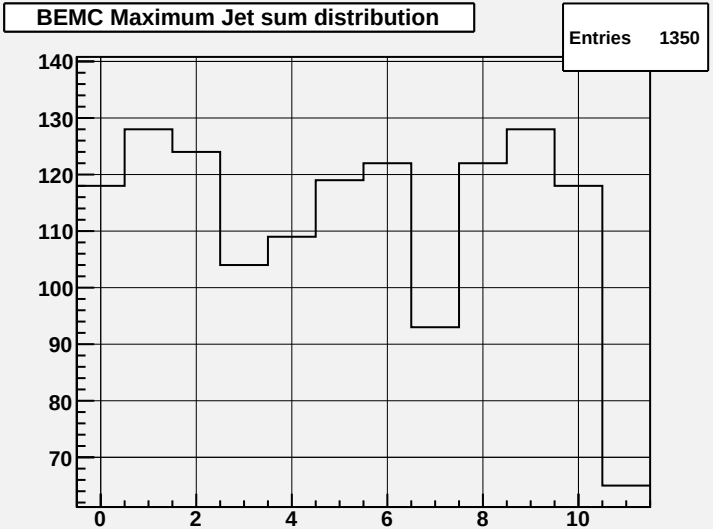

BEMC Maximum Patch Sum spectrum
Entries 2091
0
10
20
30
40
50
60
0
50
100
150
200
250
10^2
10
1

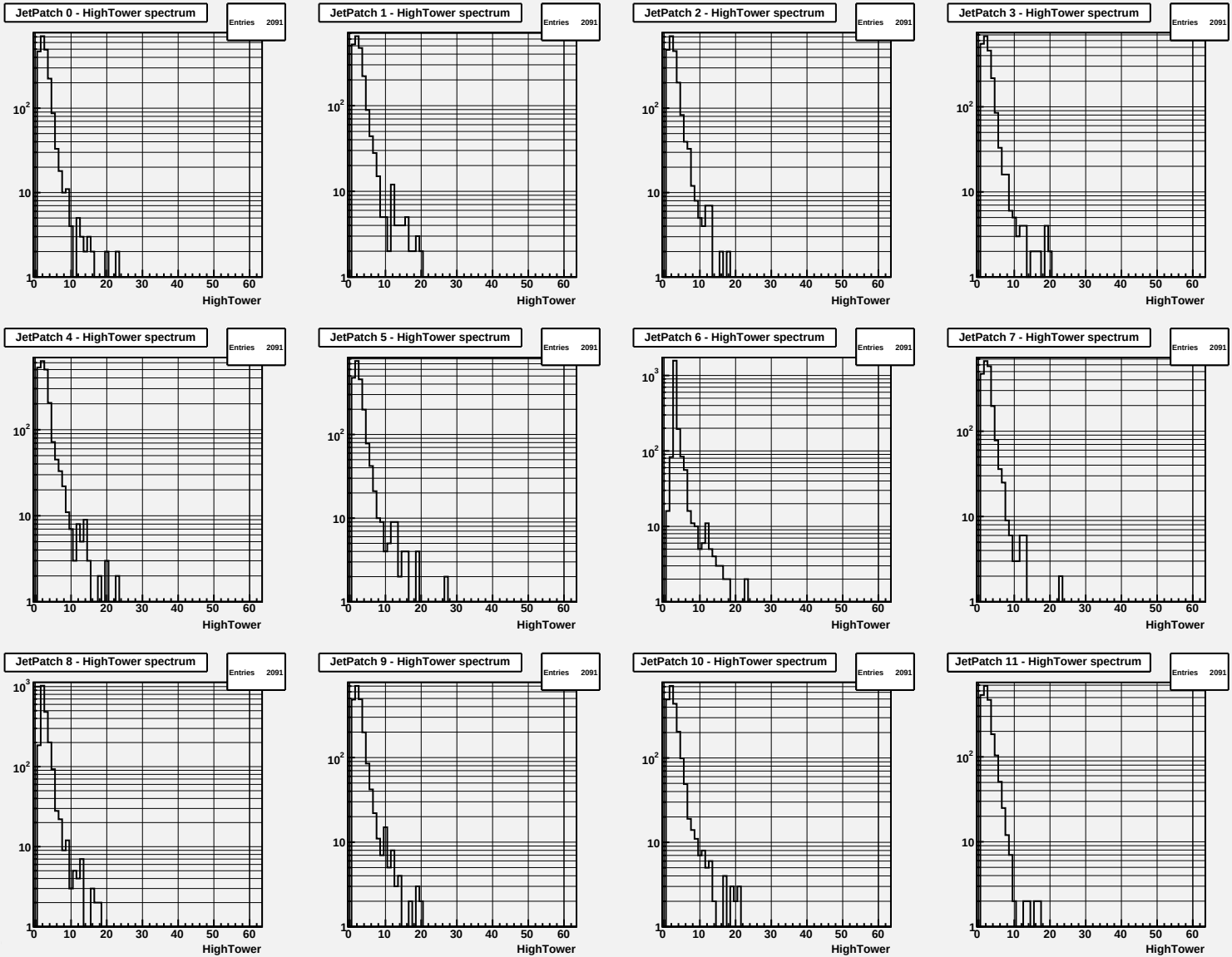

BEMC Maximum High Tower spectrum
Entries 2091
0
10
20
30
40
50
60
0
50
100
150
200
250
10^2
10
1

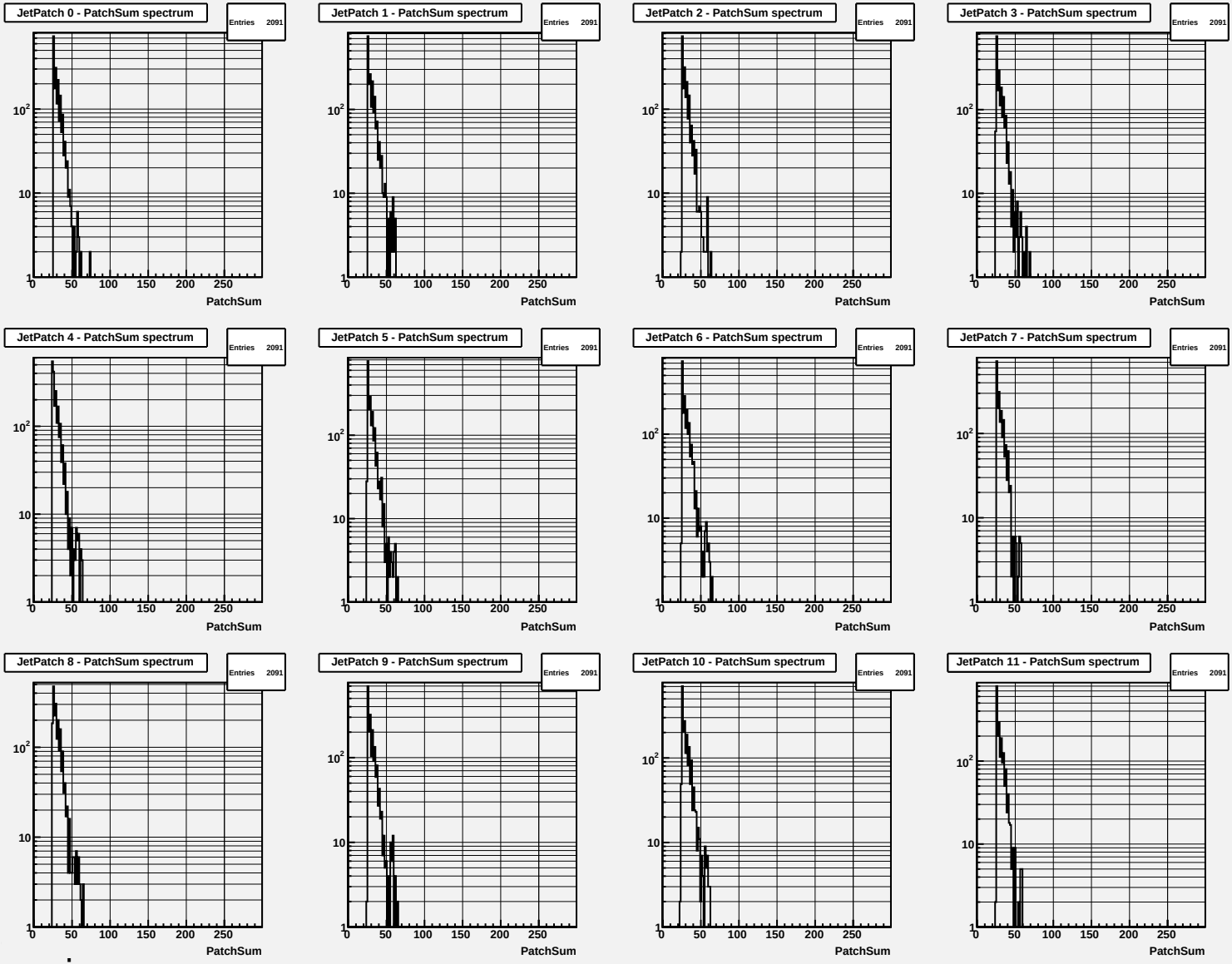

BEMC Jet sum pedestal
Entries 2294

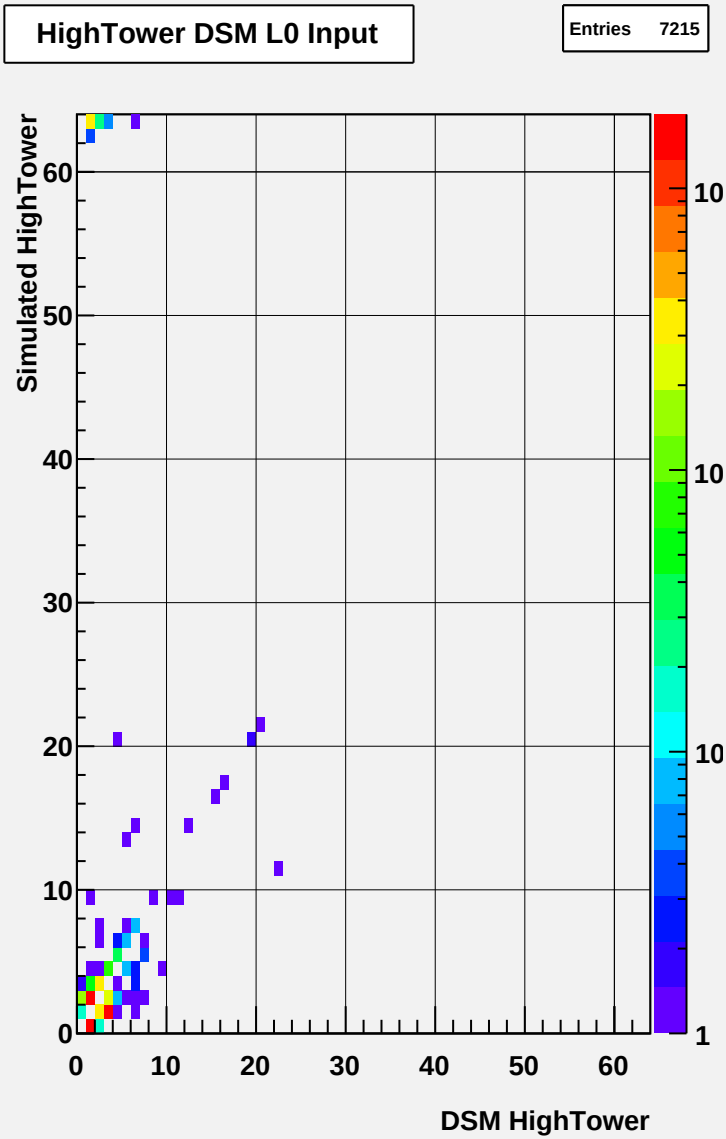

BEMC Jet sum spectrum
Entries 25092

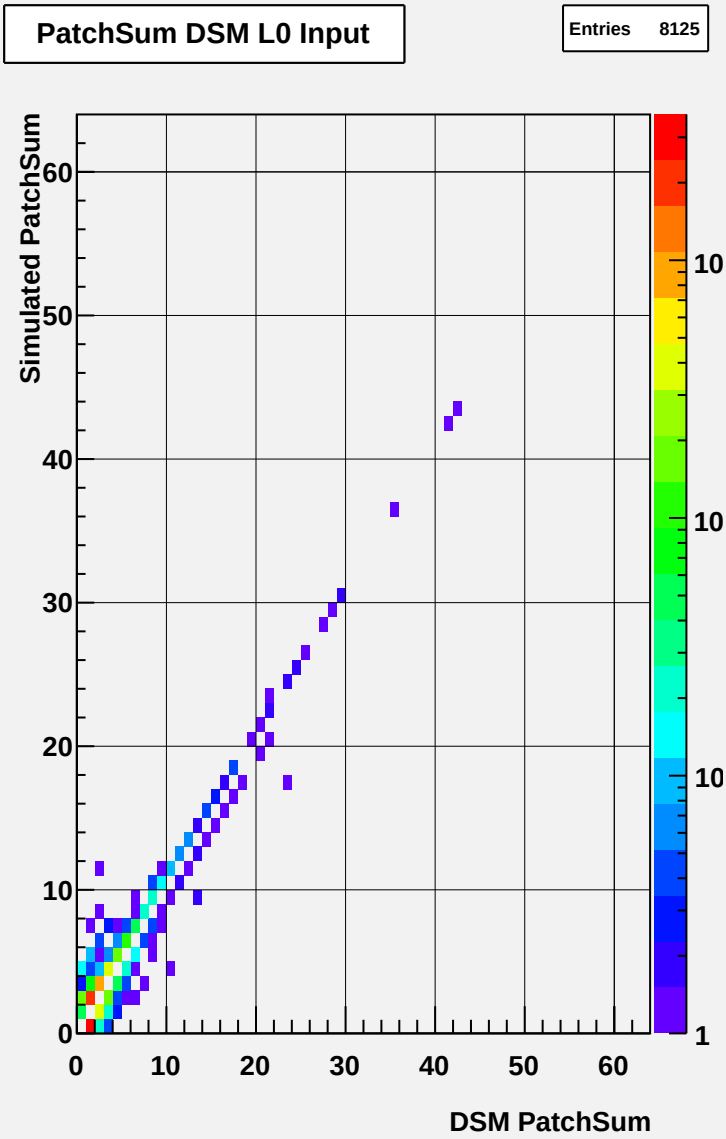

BEMC Maximum Jet sum spectrum
Entries 2091

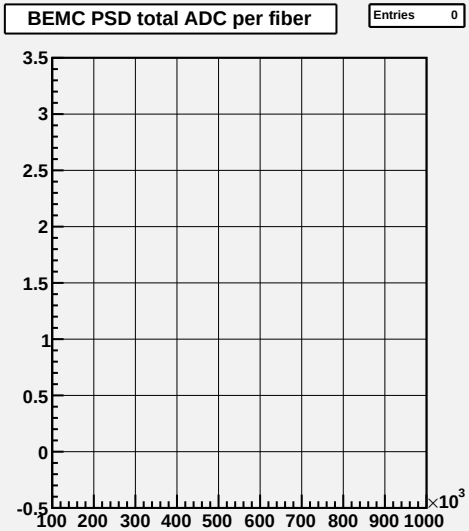

BEMC Maximum Jet sum distribution
Entries 1350

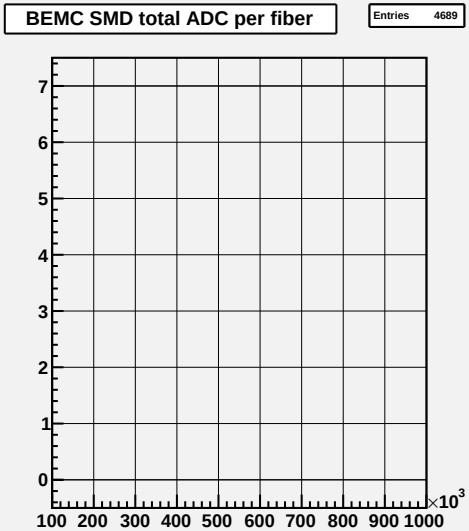

JetPatch 0 - HighTower spectrum
JetPatch 1 - HighTower spectrum
JetPatch 2 - HighTower spectrum
JetPatch 3 - HighTower spectrum
JetPatch 4 - HighTower spectrum
JetPatch 5 - HighTower spectrum
JetPatch 6 - HighTower spectrum
JetPatch 7 - HighTower spectrum
JetPatch 8 - HighTower spectrum
JetPatch 9 - HighTower spectrum
JetPatch 10 - HighTower spectrum
JetPatch 11 - HighTower spectrum
Entries 2091
HighTower

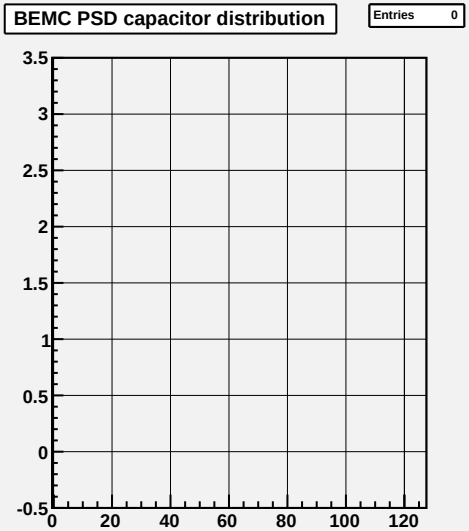

JetPatch 0 - PatchSum spectrum
JetPatch 1 - PatchSum spectrum
JetPatch 2 - PatchSum spectrum
JetPatch 3 - PatchSum spectrum
JetPatch 4 - PatchSum spectrum
JetPatch 5 - PatchSum spectrum
JetPatch 6 - PatchSum spectrum
JetPatch 7 - PatchSum spectrum
JetPatch 8 - PatchSum spectrum
JetPatch 9 - PatchSum spectrum
JetPatch 10 - PatchSum spectrum
JetPatch 11 - PatchSum spectrum
Entries 2091
PatchSum
1
10
10^2
0
50
100
150
200
250

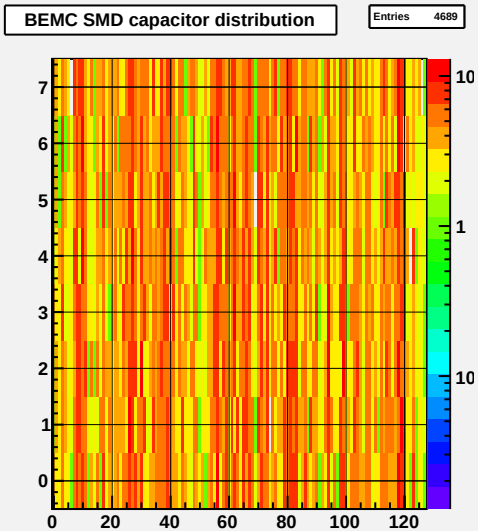

HighTower DSM L0 Input
Entries 7215
Simulated HighTower
DSM HighTower
0
10
20
30
40
50
60
1
10
10
10
10

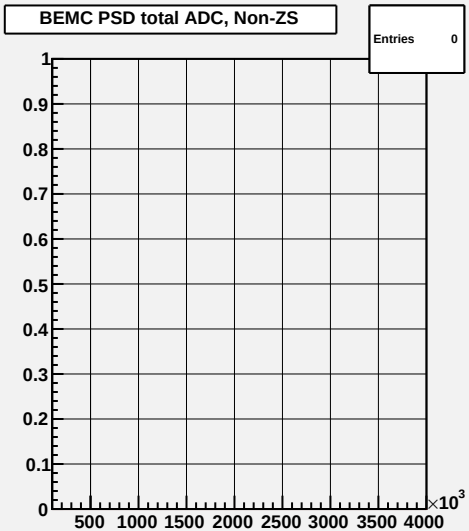

PatchSum DSM L0 Input
Entries 8125
Simulated PatchSum
DSM PatchSum
0
10
20
30
40
50
60
1
10
10
10
10

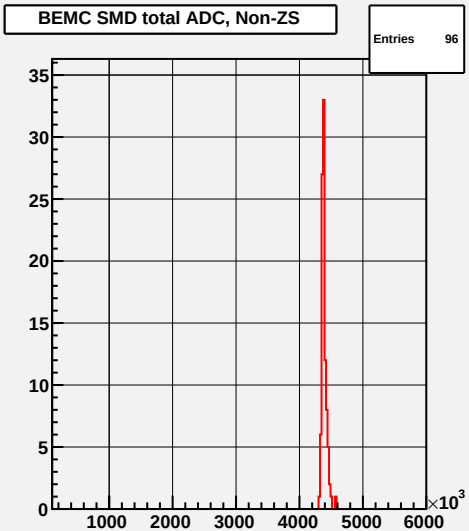

BEMC PSD total ADC per fiber
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
100 200 300 400 500 600 700 800 900 1000
×10^3

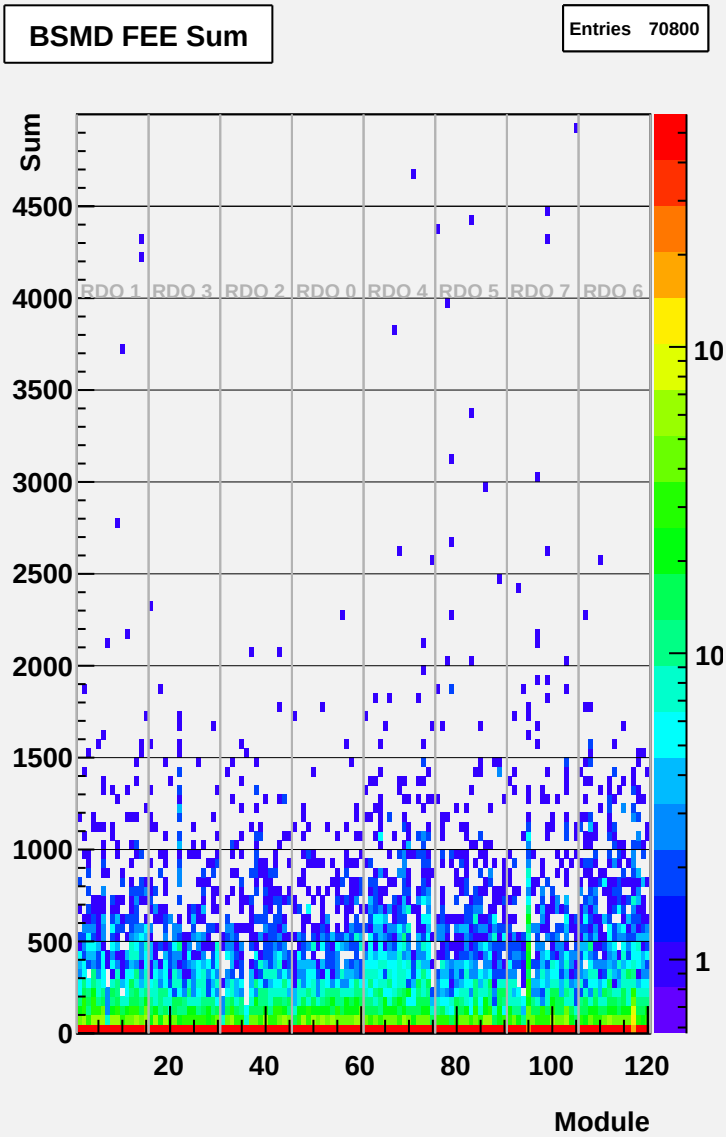

BEMC SMD total ADC per fiber
Entries 4689
7
6
5
4
3
2
1
0
100 200 300 400 500 600 700 800 900 1000
×10^3

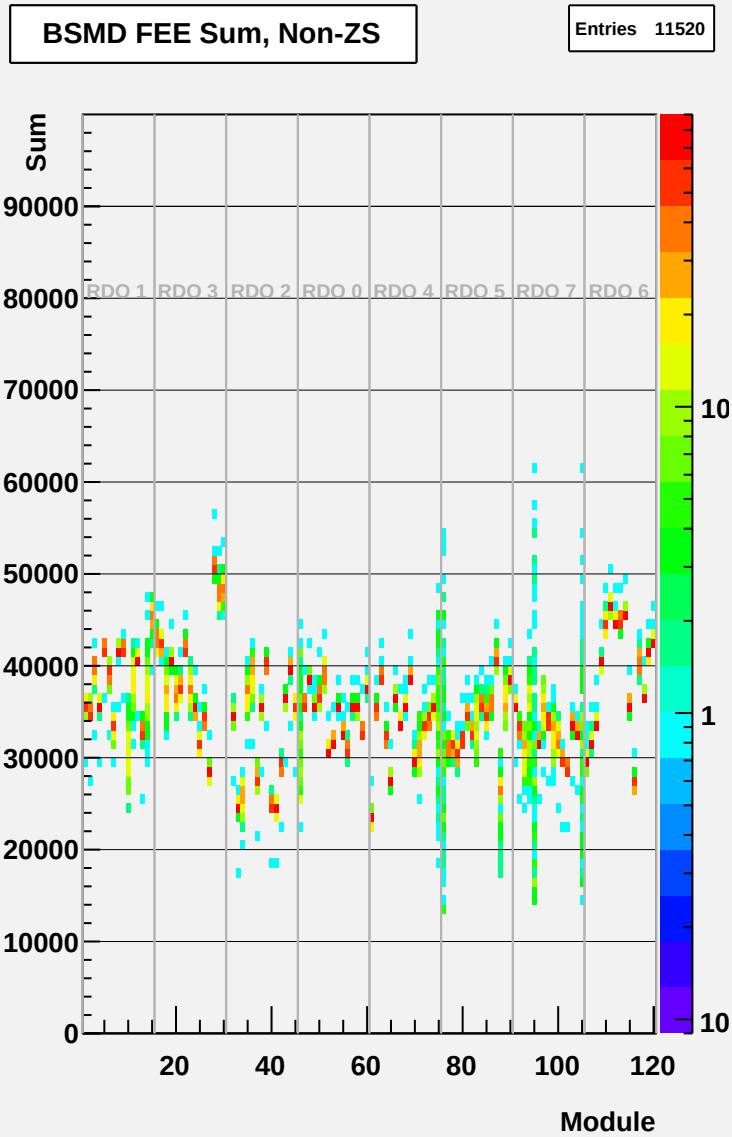

BEMC PSD capacitor distribution
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0 20 40 60 80 100 120


BEMC SMD capacitor distribution
Entries 4689
7
6
5
4
3
2
1
0
0 20 40 60 80 100 120
10
1
10

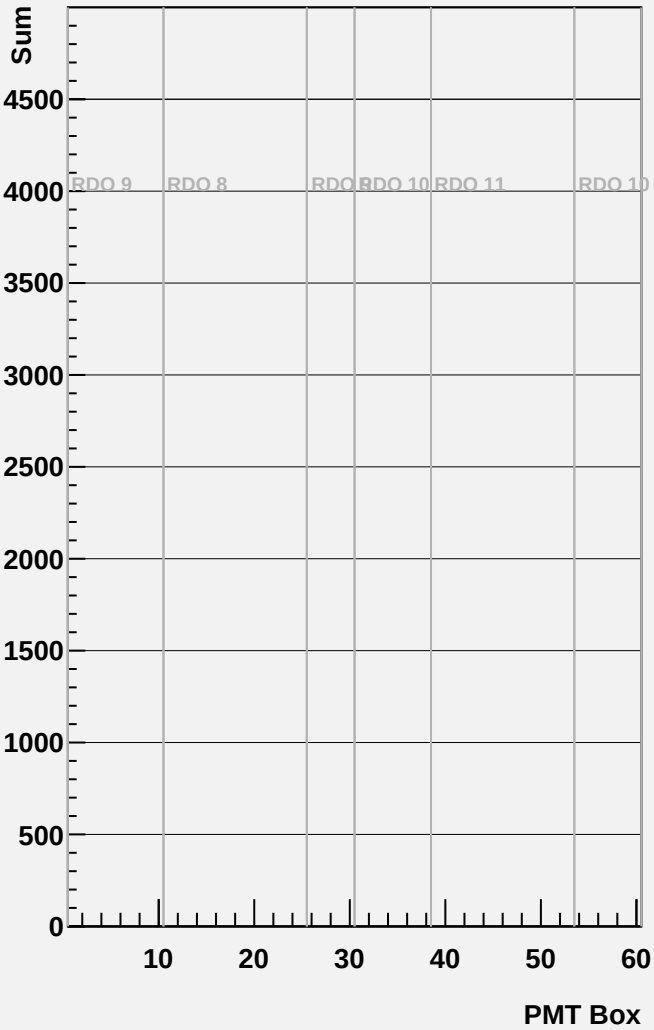

BEMC PSD total ADC, Non-ZS
Entries 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000
×10^3


BEMC SMD total ADC, Non-ZS
Entries 96
35
30
25
20
15
10
5
0
1000 2000 3000 4000 5000 6000
×10^3

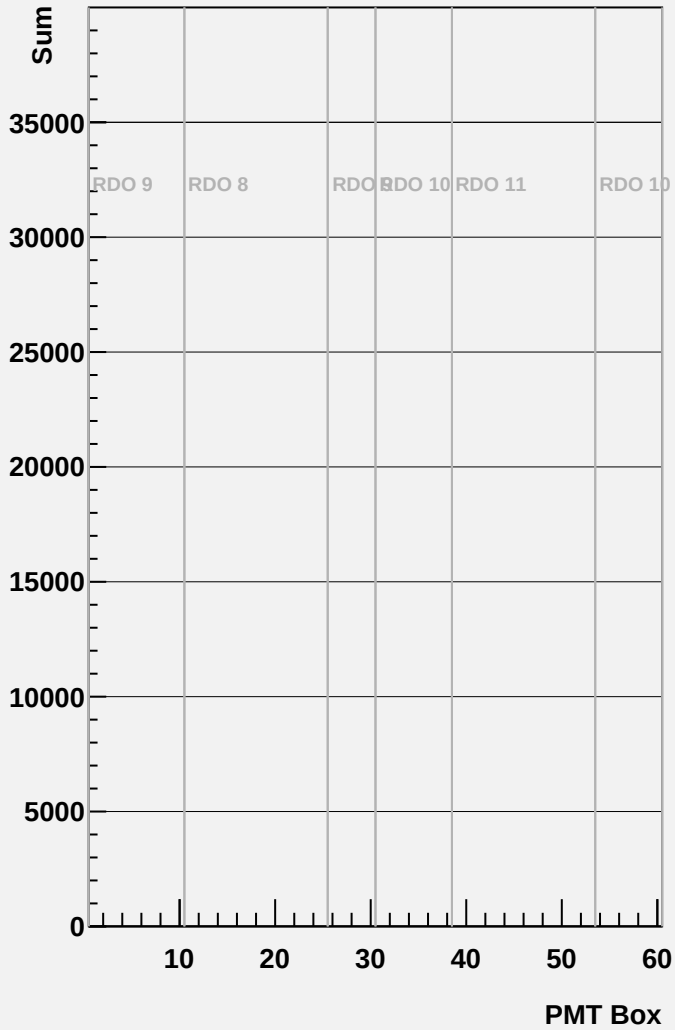

BSMD FEE Sum
Entries 70800
Sum
4500
4000
3500
3000
2500
2000
1500
1000
500
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
1

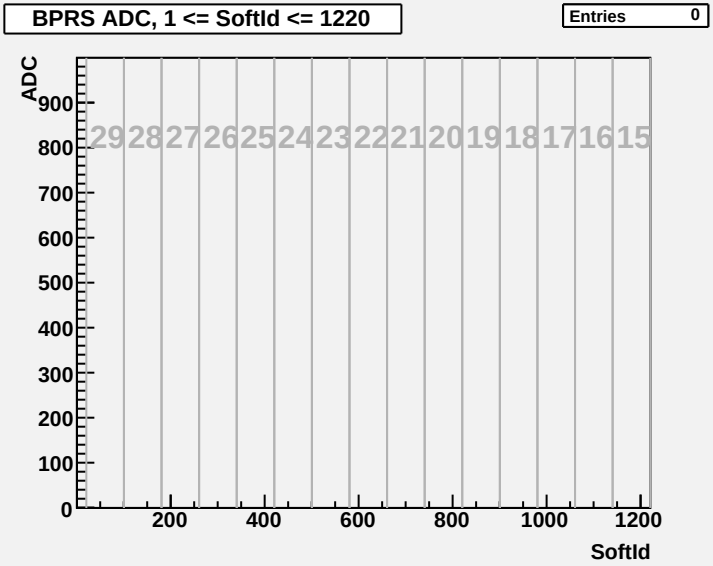

BSMD FEE Sum, Non-ZS
Entries 11520
Sum
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
1
10

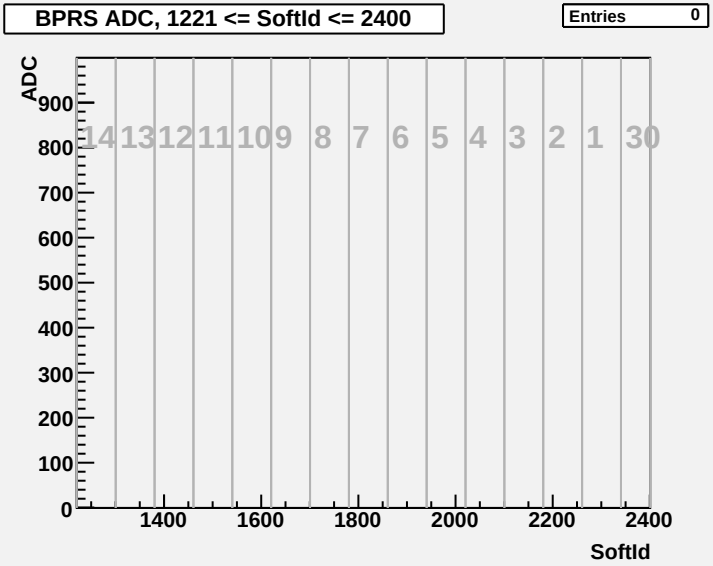
BPRS FEE Sum

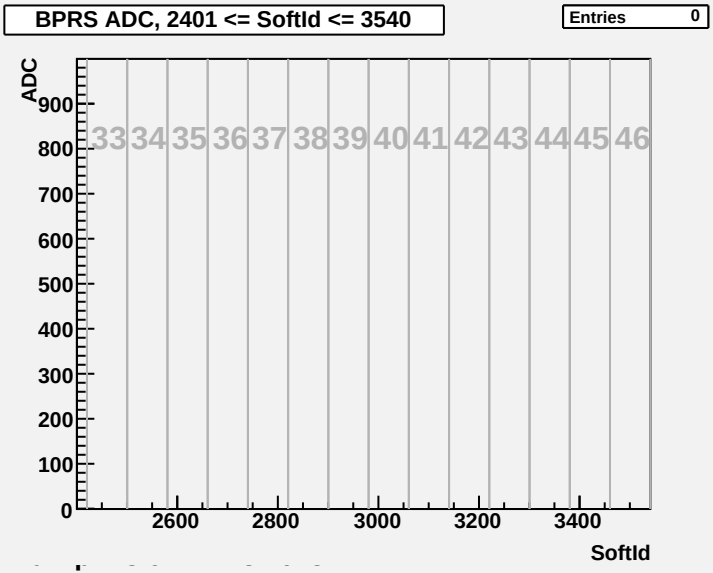


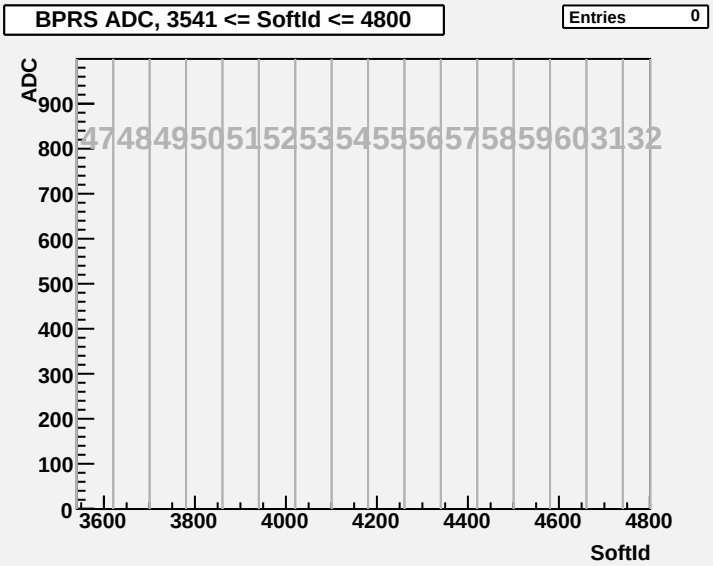
BPRS FEE Sum, Non-ZS

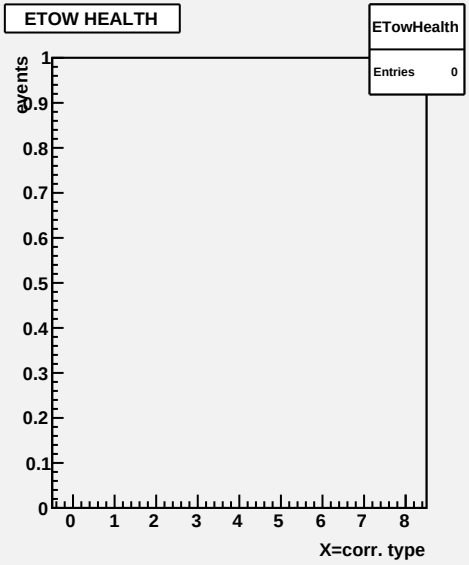


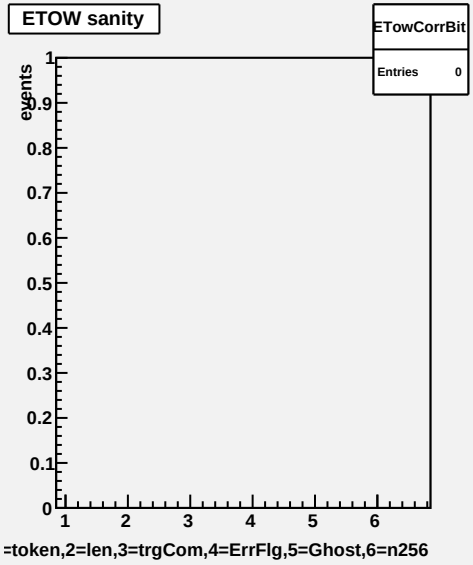

BPRS ADC, 1 <= SoftId <= 1220
Entries 0
ADC
SoftId
29 28 27 26 25 24 23 22 21 20 19 18 17 16 15

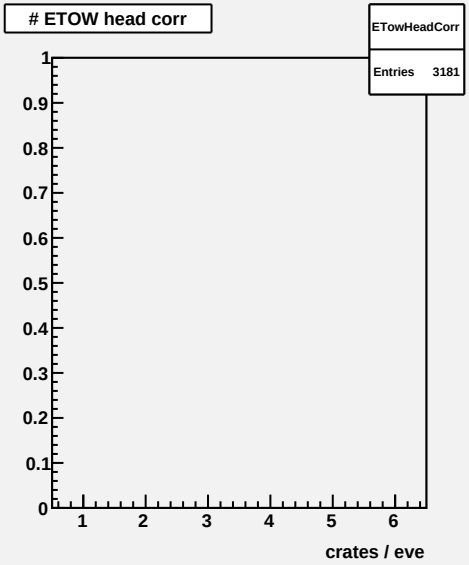

BPRS ADC, 1221 <= SoftId <= 2400
Entries 0
ADC
SoftId
14 13 12 11 10 9 8 7 6 5 4 3 2 1 30

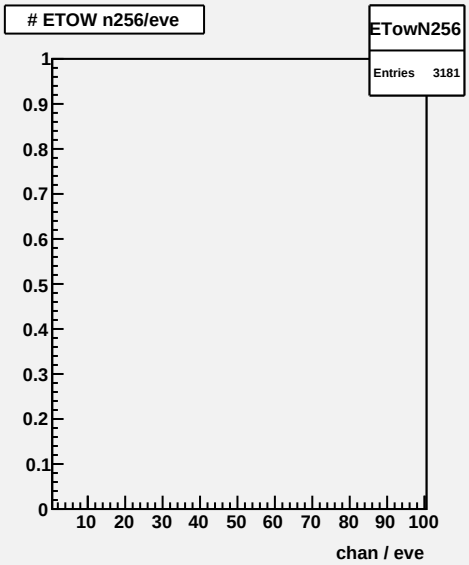

BPRS ADC, 2401 <= SoftId <= 3540
Entries 0
ADC
SoftId
33 34 35 36 37 38 39 40 41 42 43 44 45 46

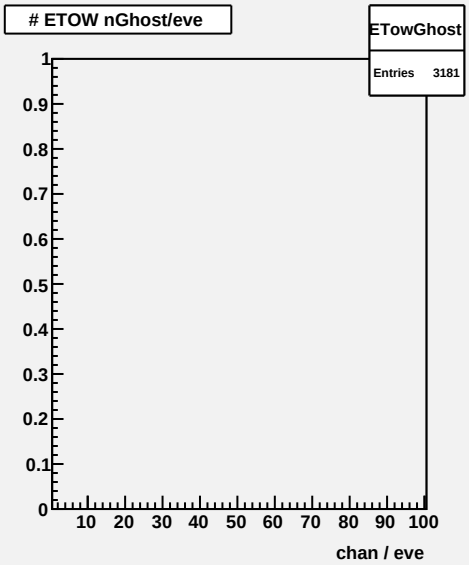

BPRS ADC, 3541 <= SoftId <= 4800
Entries 0
ADC
SoftId
47 48 49 50 51 52 53 54 55 56 57 58 59 60 31 32

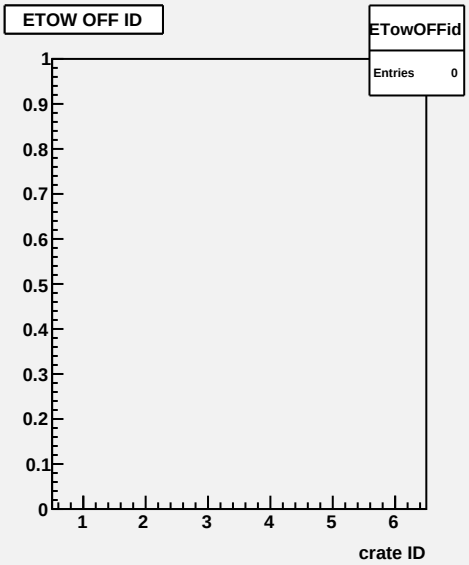

ETOW HEALTH
ETowHealth
Entries 0
events
X=corr. type

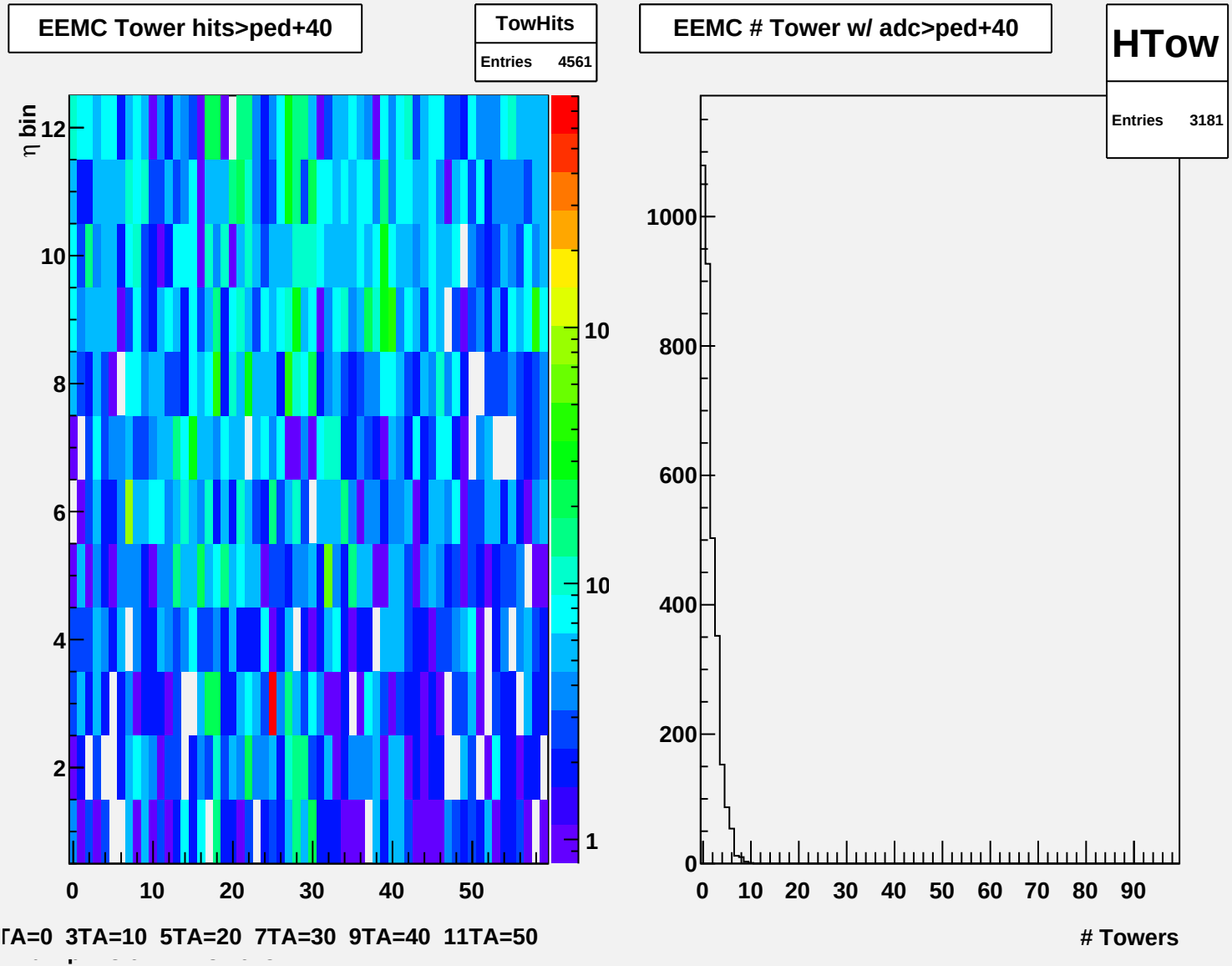

ETOW sanity
ETowCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

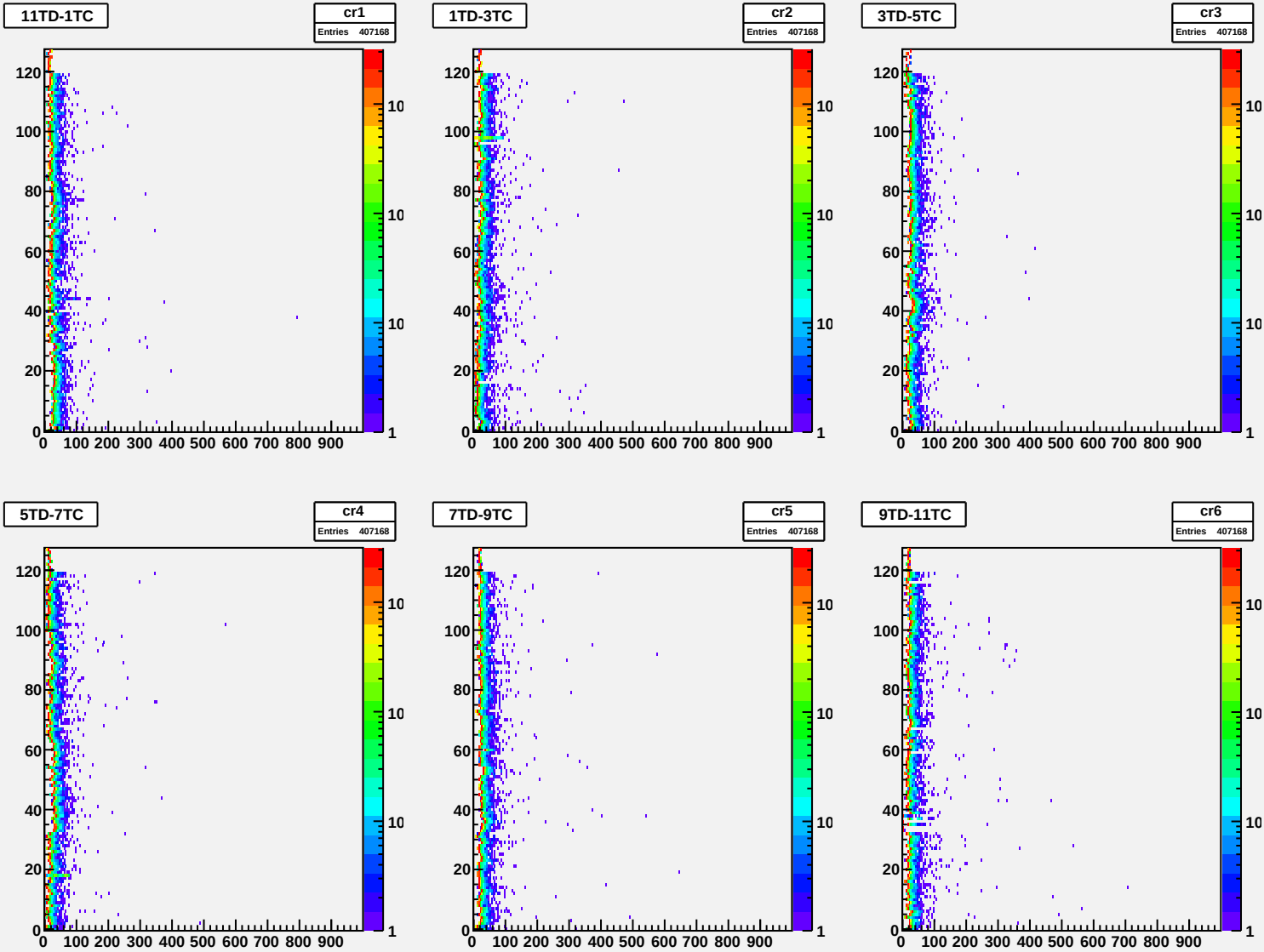

ETOW head corr
ETowHeadCorr
Entries 3181
crates / eve

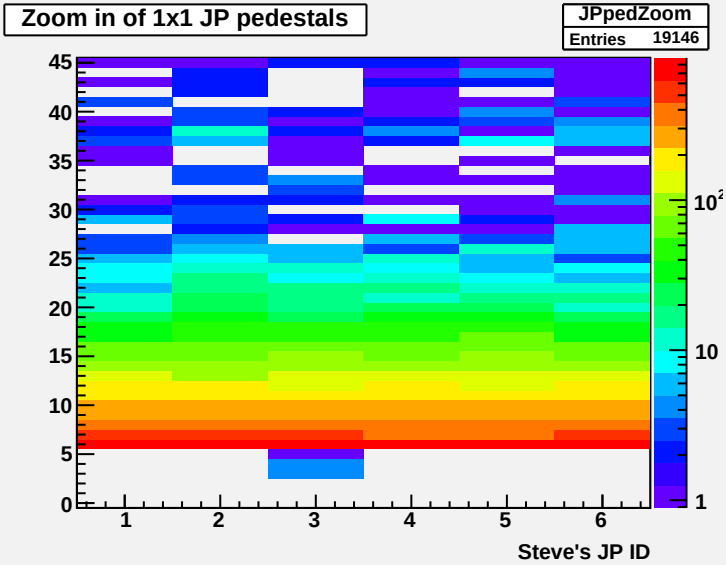

ETOW n256/eve
ETowN256
Entries 3181
chan / eve

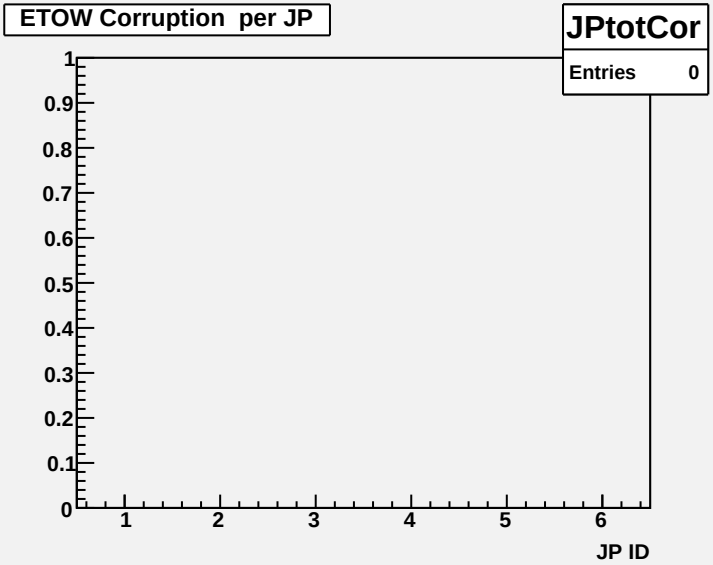

ETOW nGhost/eve
ETowGhost
Entries 3181
chan / eve

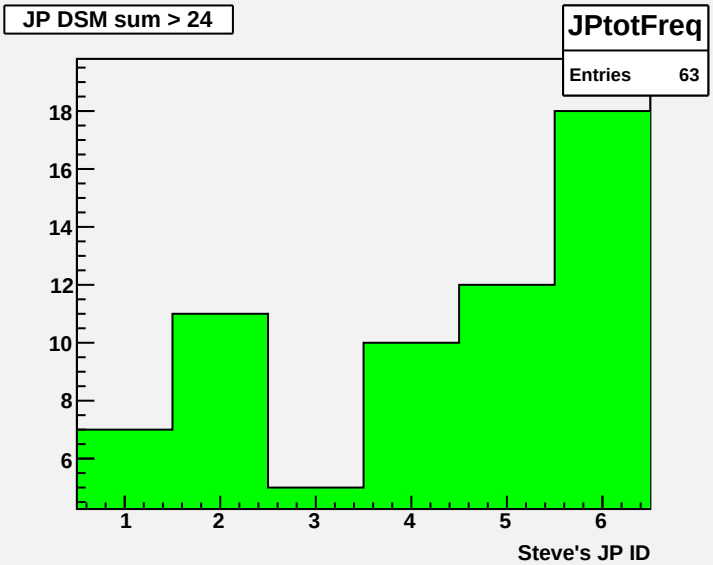

ETOW OFF ID
ETowOFFid
Entries 0
crate ID

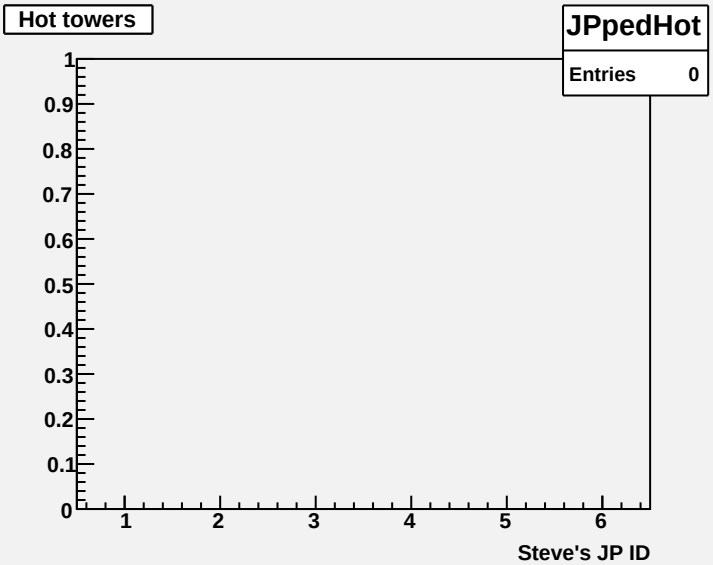

EEMC Tower hits>ped+40
TowHits
Entries 4561
η bin
12
10
8
6
4
2
0
10
20
30
40
50
10
10
1
ΓA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50
EEMC # Tower w/ adc>ped+40
HTow
Entries 3181
1000
800
600
400
200
0
0
10
20
30
40
50
60
70
80
90
Towers

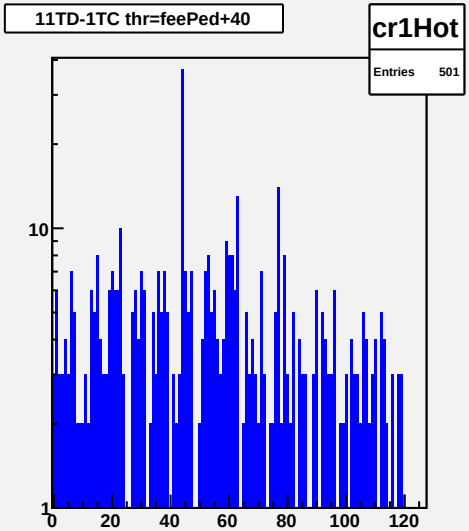

11TD-1TC
cr1
Entries 407168
1TD-3TC
cr2
Entries 407168
3TD-5TC
cr3
Entries 407168
5TD-7TC
cr4
Entries 407168
7TD-9TC
cr5
Entries 407168
9TD-11TC
cr6
Entries 407168
0 100 200 300 400 500 600 700 800 900
0 20 40 60 80 100 120
1 10 10 10 10

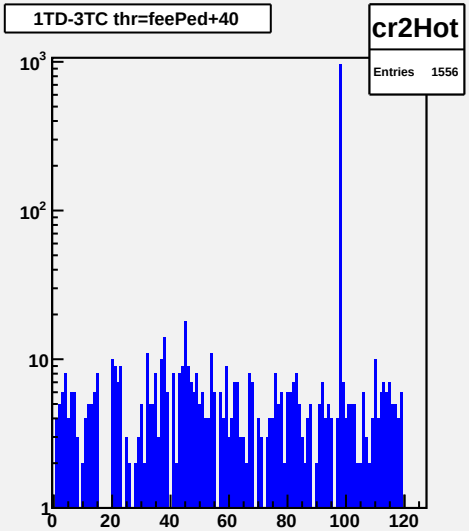

Zoom in of 1x1 JP pedestals
JPpedZoom
Entries 19146
Steve's JP ID

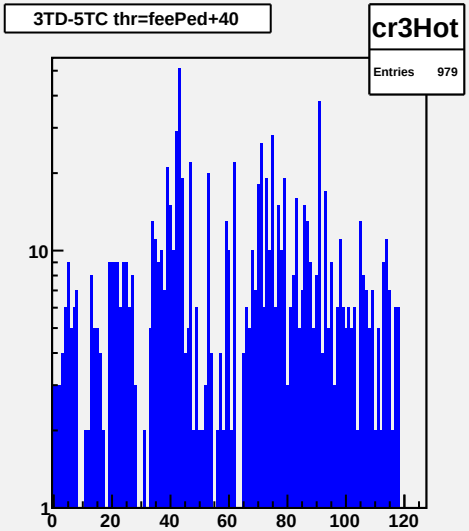

ETOW Corruption per JP
JPtotCor
Entries 0
JP ID

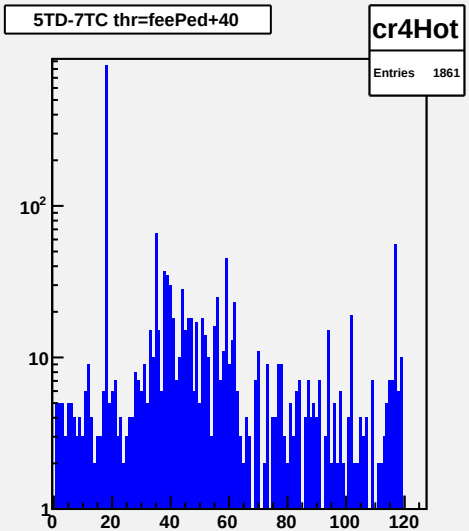

JP DSM sum > 24
JPtotFreq
Entries 63
Steve's JP ID

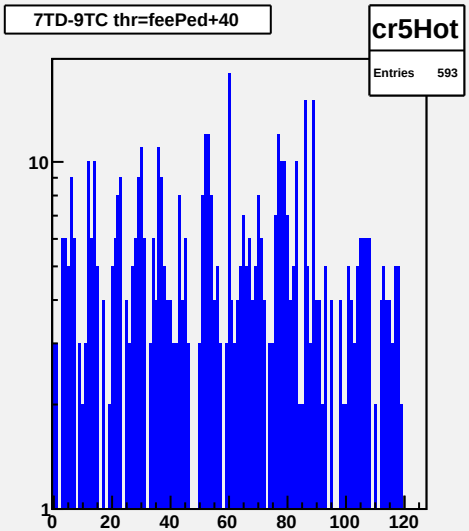

Hot towers
JPpedHot
Entries 0
Steve's JP ID

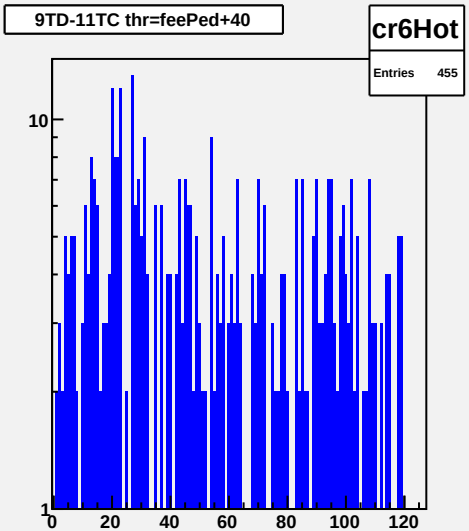

11TD-1TC thr=feePed+40
cr1Hot
Entries 501

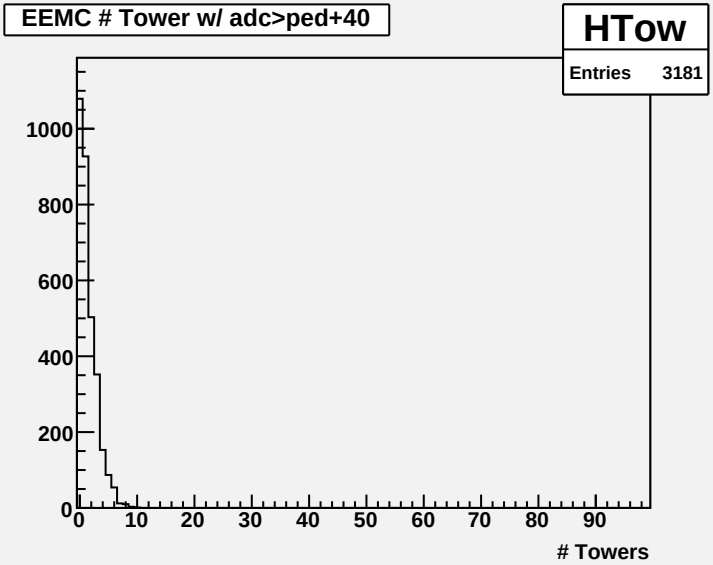

1TD-3TC thr=feePed+40
cr2Hot
Entries 1556

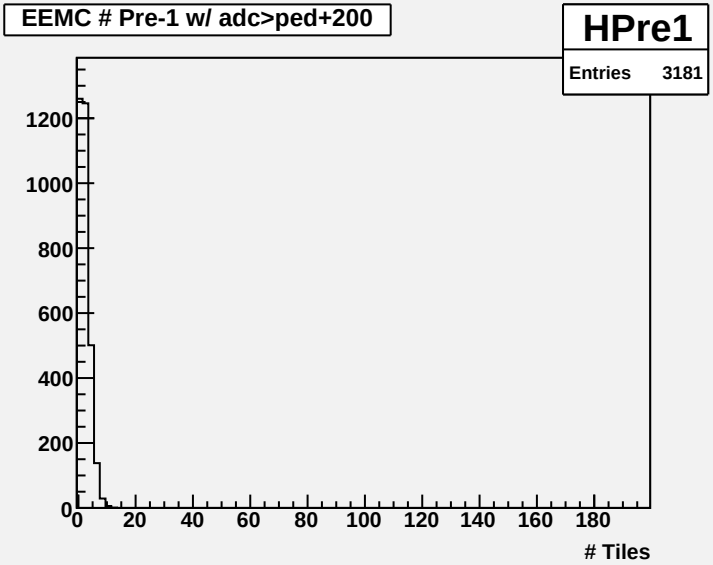

3TD-5TC thr=feePed+40
cr3Hot
Entries 979

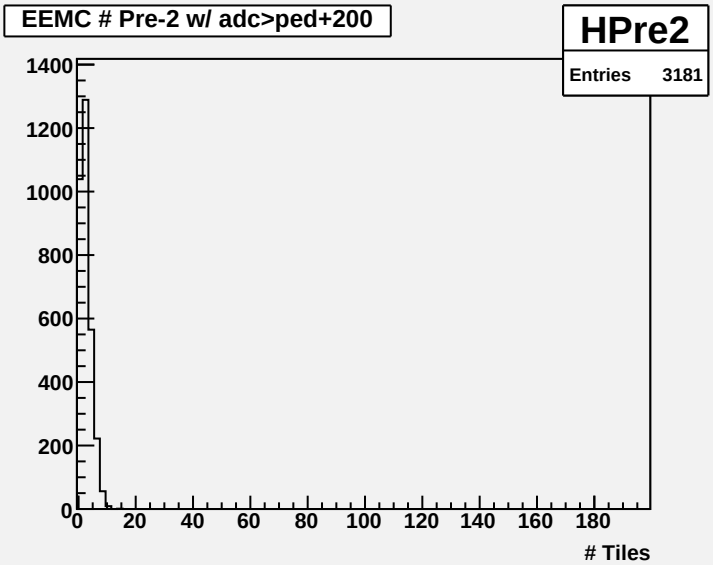

5TD-7TC thr=feePed+40
cr4Hot
Entries 1861

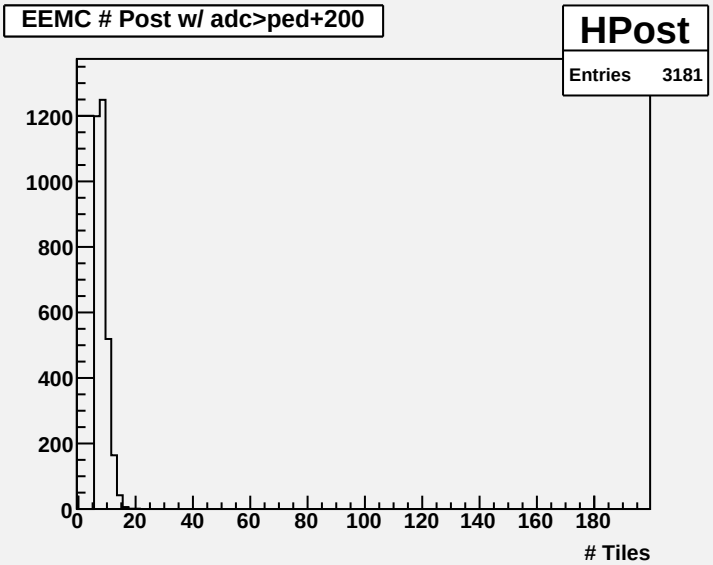

7TD-9TC thr=feePed+40
cr5Hot
Entries 593

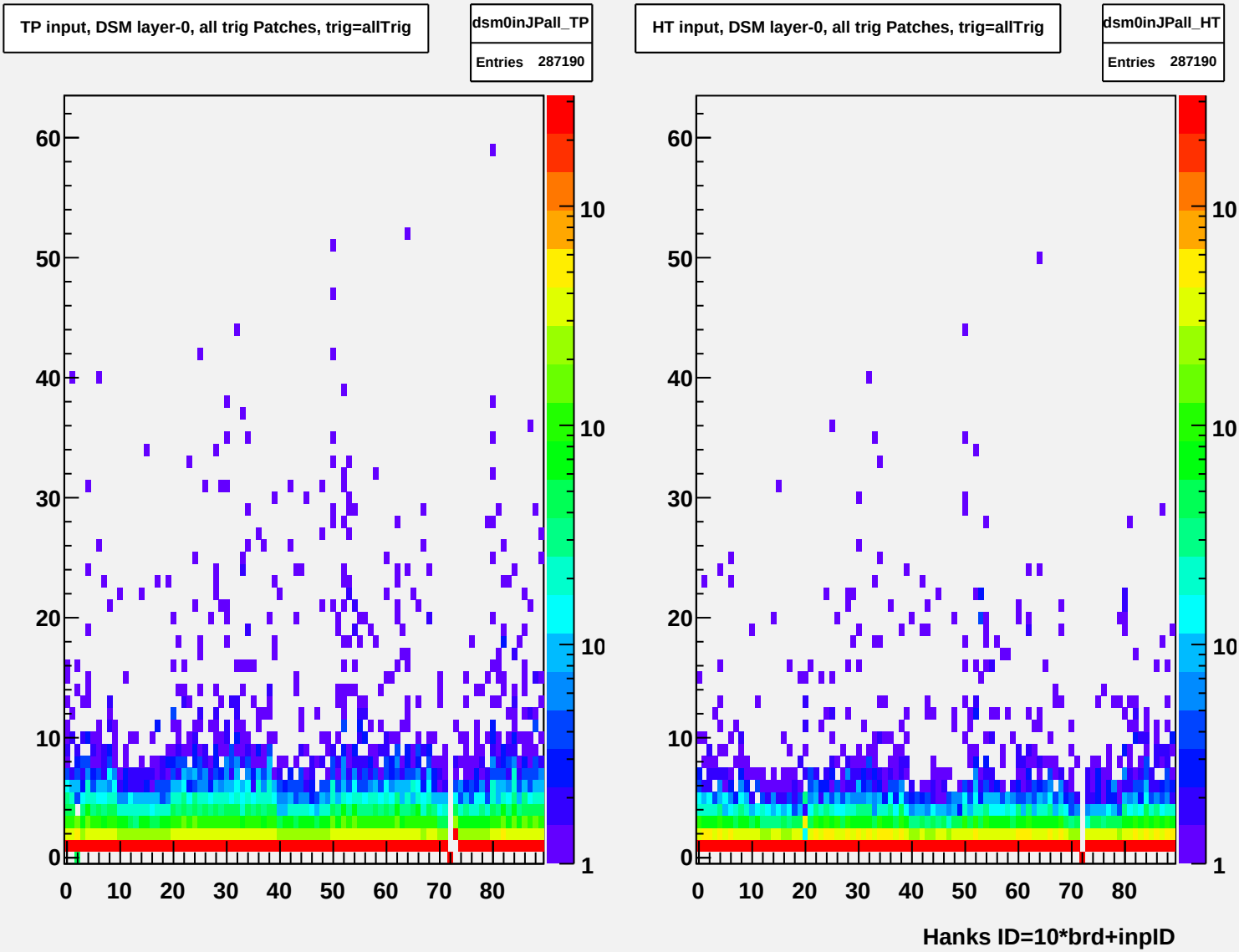

9TD-11TC thr=feePed+40
cr6Hot
Entries 455

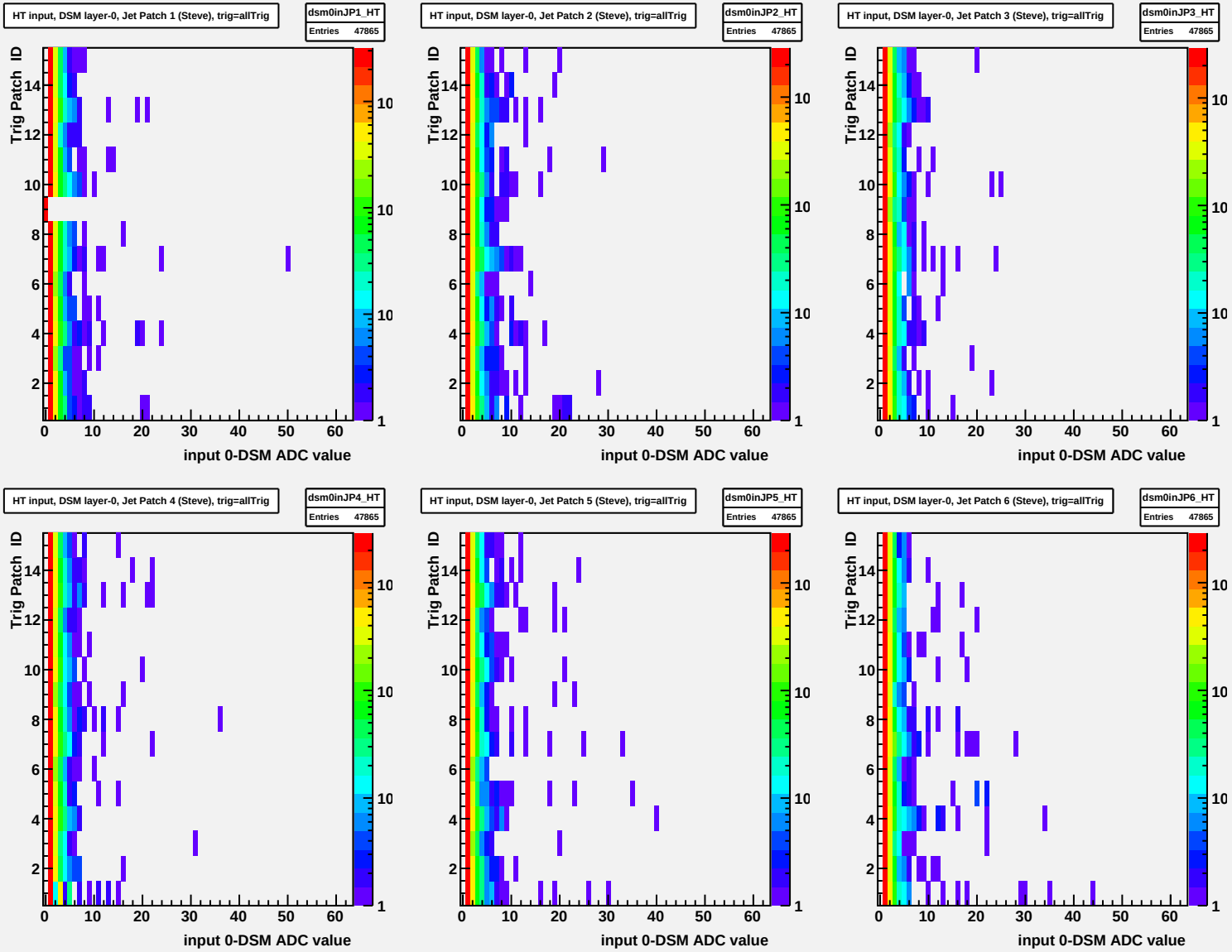

EEMC # Tower w/ adc>ped+40
HTow
Entries 3181
1000
800
600
400
200
0
0 10 20 30 40 50 60 70 80 90
Towers

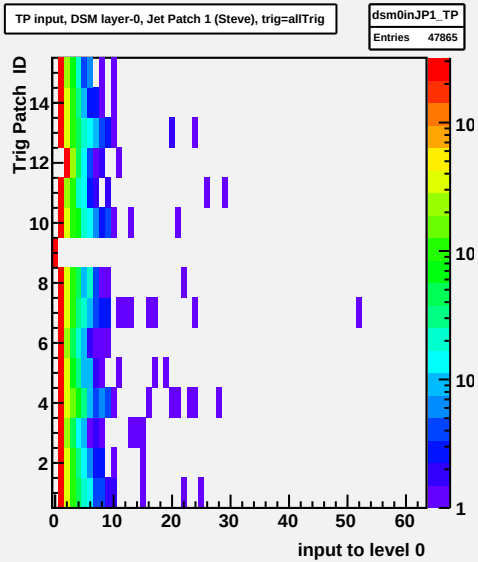

EEMC # Pre-1 w/ adc>ped+200
HPre1
Entries 3181
1200
1000
800
600
400
200
0
0 20 40 60 80 100 120 140 160 180
Tiles

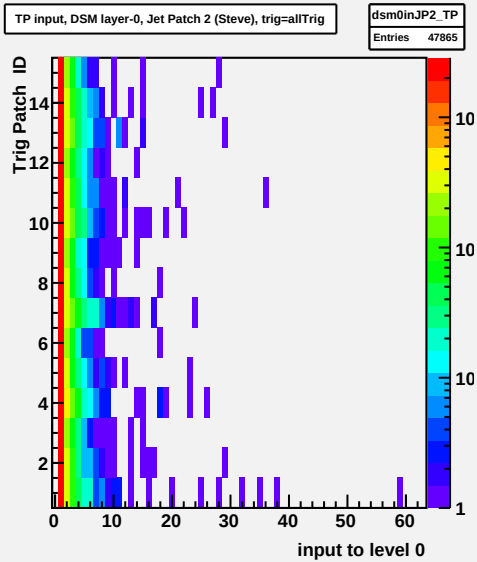

EEMC # Pre-2 w/ adc>ped+200
HPre2
Entries 3181
1400
1200
1000
800
600
400
200
0
0 20 40 60 80 100 120 140 160 180
Tiles

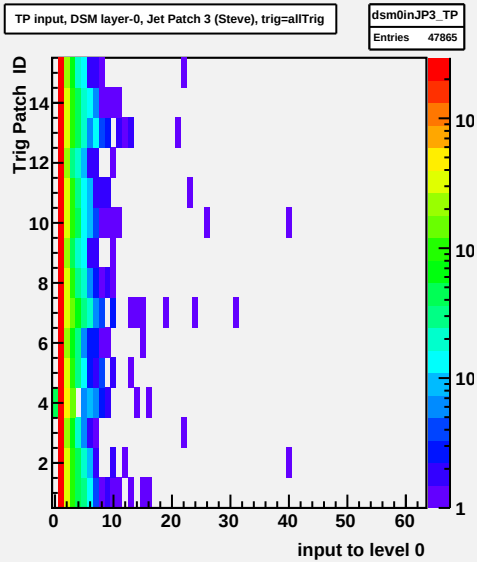

EEMC # Post w/ adc>ped+200
HPost
Entries 3181
1200
1000
800
600
400
200
0
0 20 40 60 80 100 120 140 160 180
Tiles

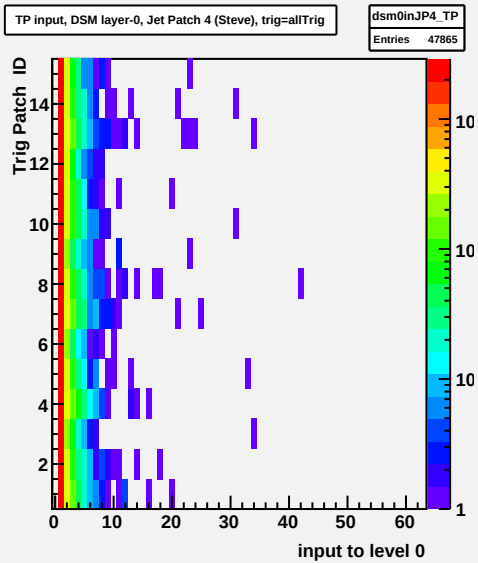

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 287190
HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 287190
0
10
20
30
40
50
60
70
80
1
10
Hanks ID=10*brd+inpID

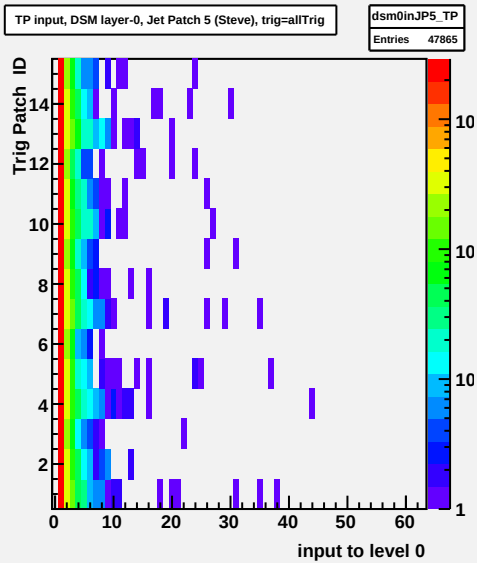

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 47865
HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 47865
HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 47865
HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 47865
HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 47865
HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 47865
Trig Patch ID
input 0-DSM ADC value

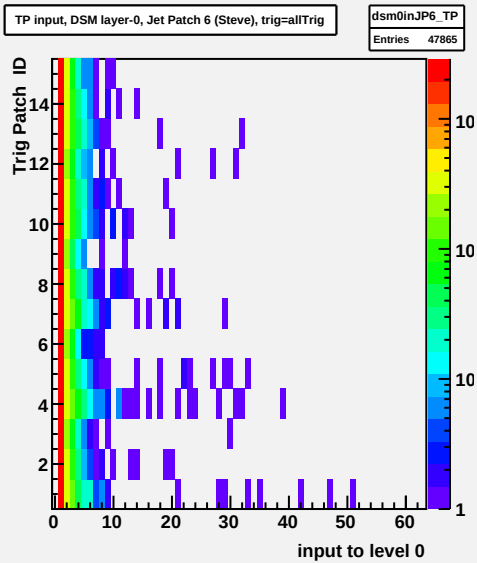

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 47865
Trig Patch ID
input to level 0

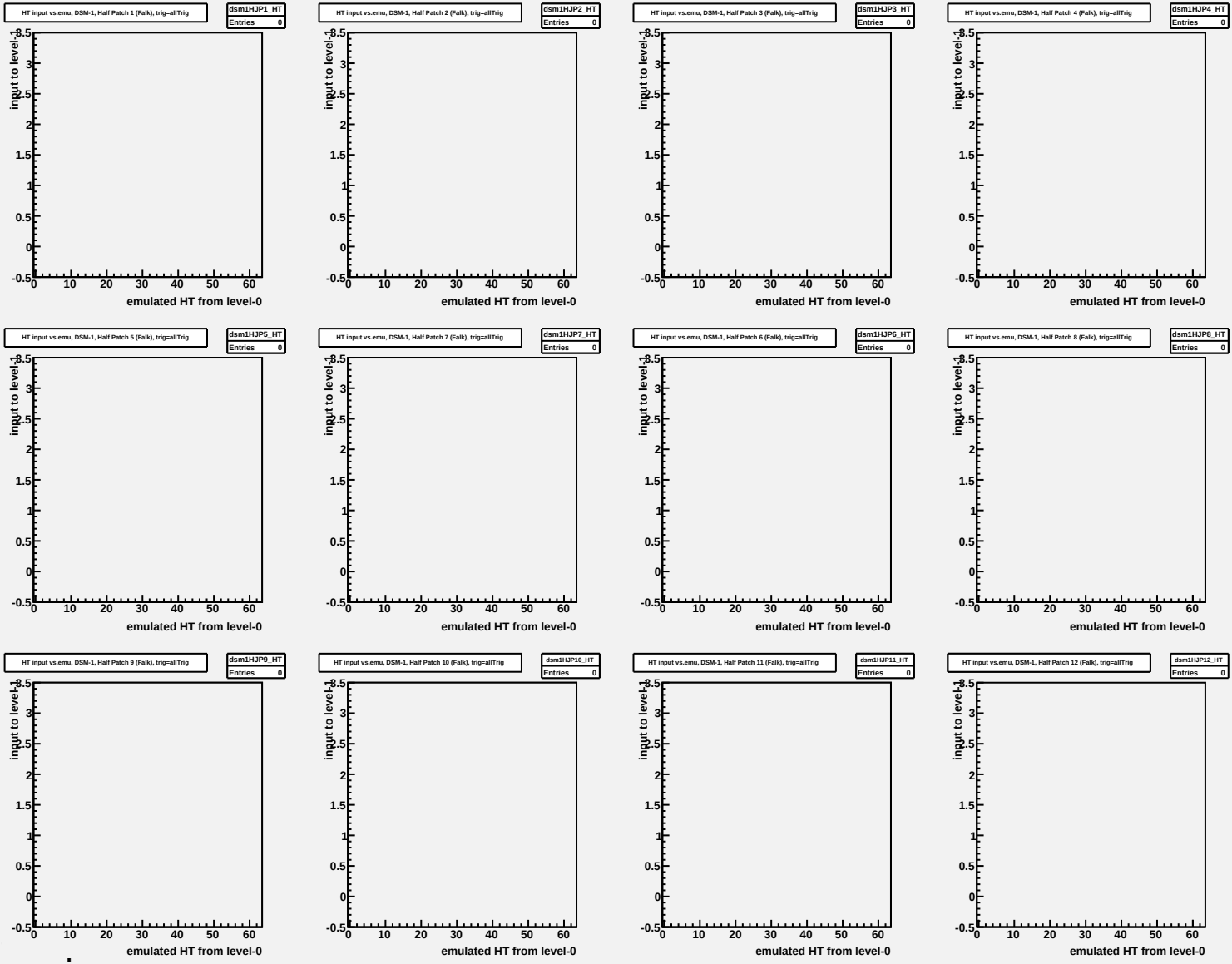

TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 47865
Trig Patch ID
input to level 0


TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 47865
Trig Patch ID
input to level 0

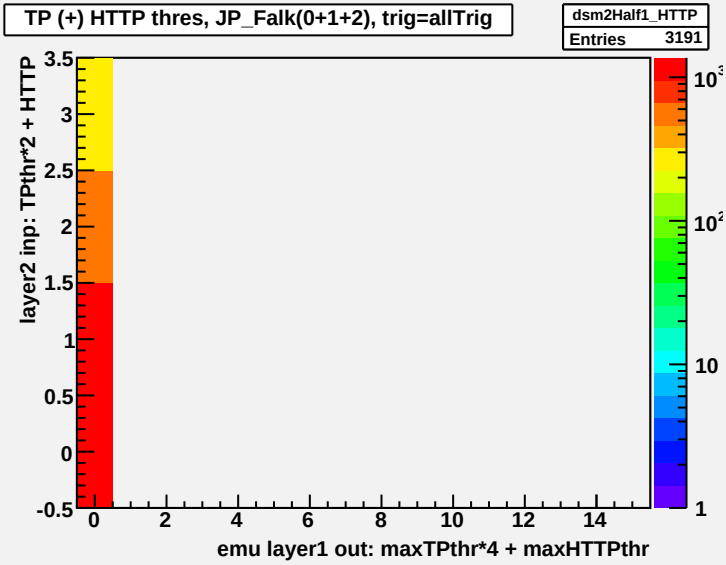

TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 47865
Trig Patch ID
input to level 0

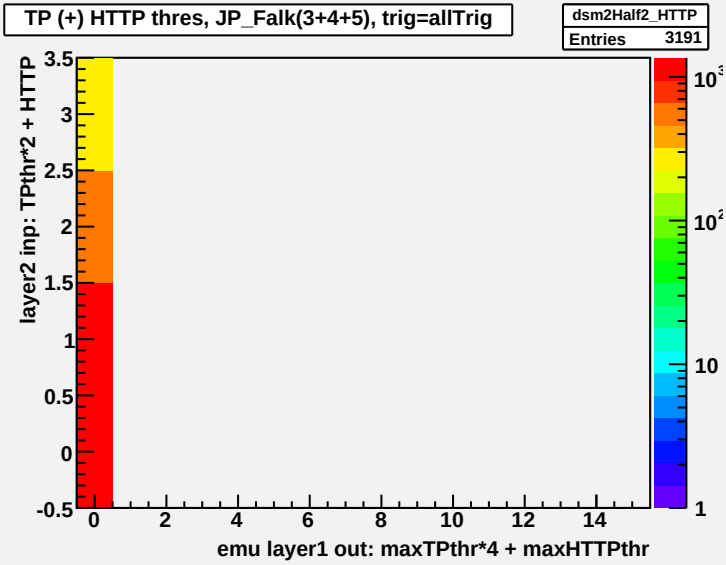

TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 47865
Trig Patch ID
input to level 0

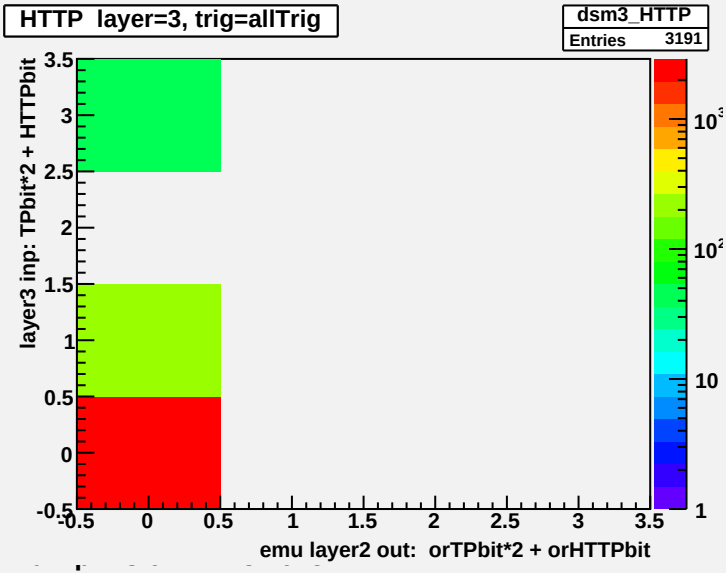

TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 47865
Trig Patch ID
input to level 0

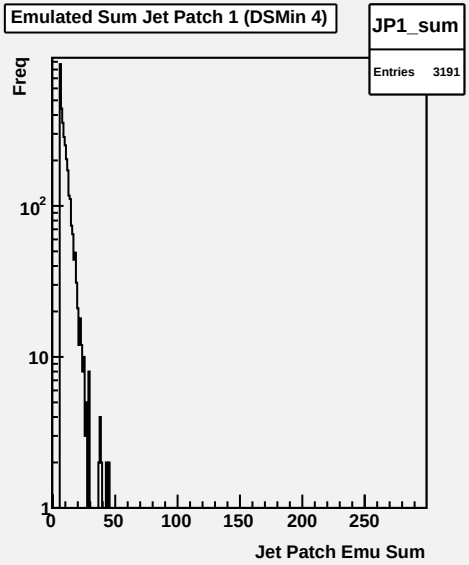

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT
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

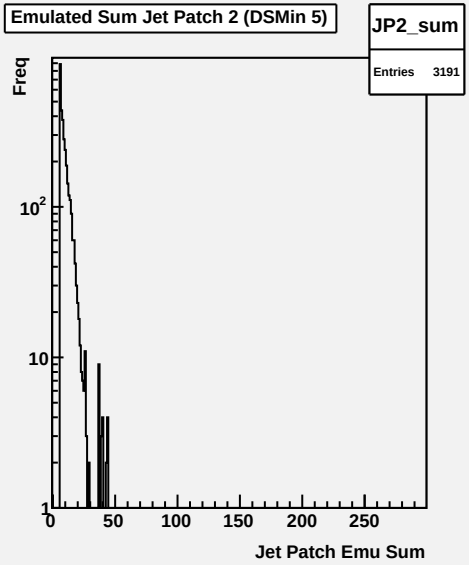
TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig
dsm1HJP4_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=4, trig=allTrig
dsm1HJP5_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=5, trig=allTrig
dsm1HJP6_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=1 ch=0, trig=allTrig
dsm1HJP7_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=1 ch=1, trig=allTrig
dsm1HJP8_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=1 ch=2, trig=allTrig
dsm1HJP9_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=1 ch=3, trig=allTrig
dsm1HJP10_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=1 ch=4, trig=allTrig
dsm1HJP11_TP
Entries 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
0 50 100 150 200 250 300 350 400

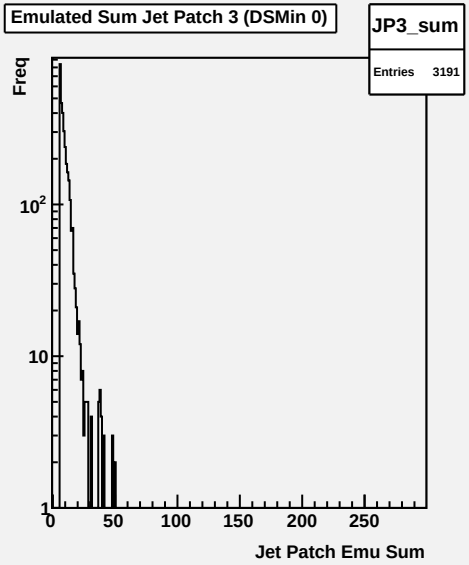

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 3191
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

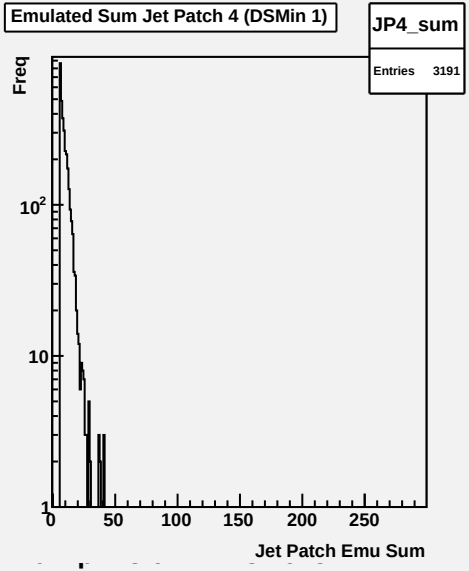

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 3191
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

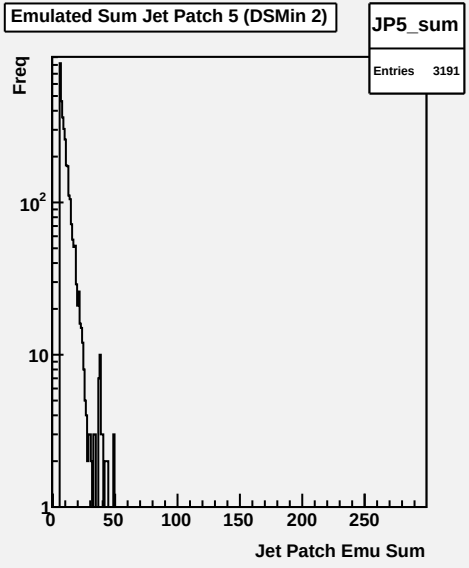

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 3191
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

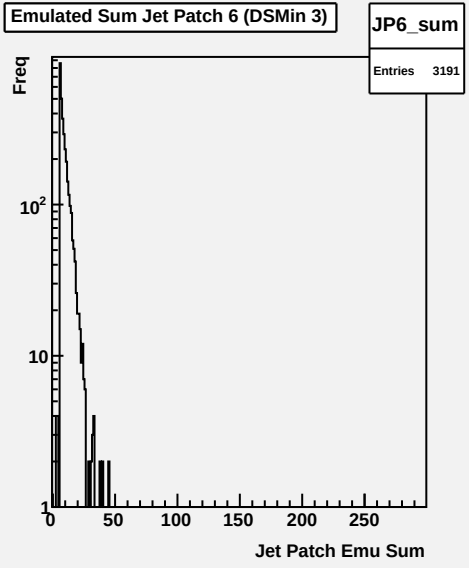

Emulated Sum Jet Patch 1 (DSMin 4)
JP1_sum
Entries 3191
Freq
Jet Patch Emu Sum

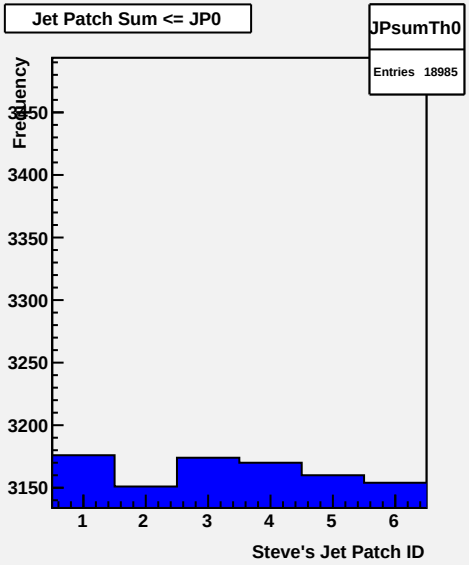

Emulated Sum Jet Patch 2 (DSMin 5)
JP2_sum
Entries 3191
Freq
Jet Patch Emu Sum

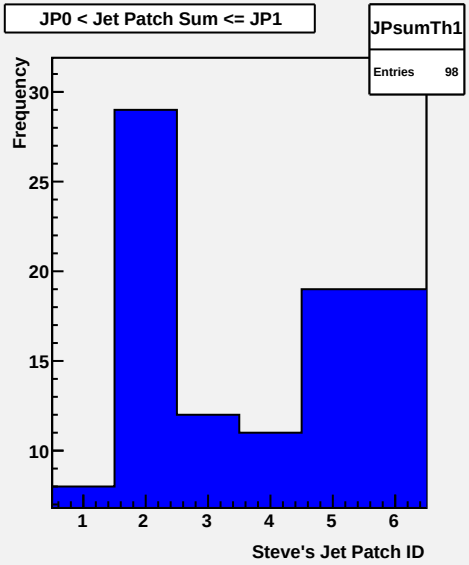

Emulated Sum Jet Patch 3 (DSMin 0)
JP3_sum
Entries 3191
Freq
Jet Patch Emu Sum

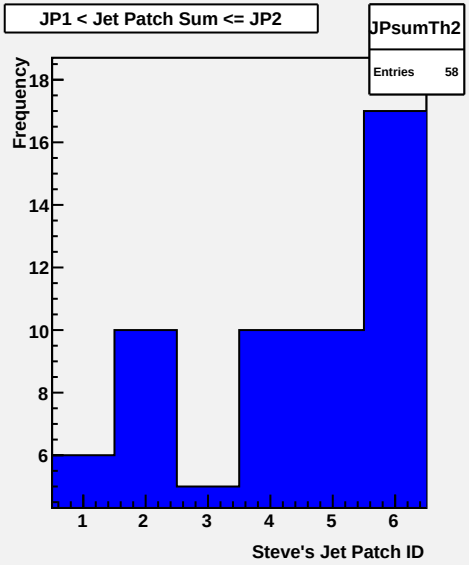

Emulated Sum Jet Patch 4 (DSMin 1)
JP4_sum
Entries 3191
Freq
Jet Patch Emu Sum

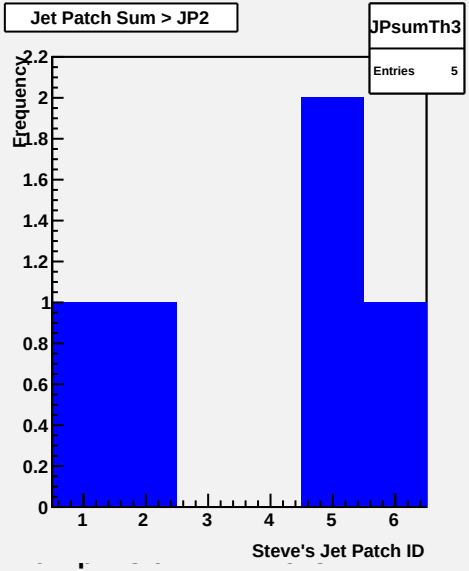

Emulated Sum Jet Patch 5 (DSMin 2)
JP5_sum
Entries 3191
Freq
Jet Patch Emu Sum

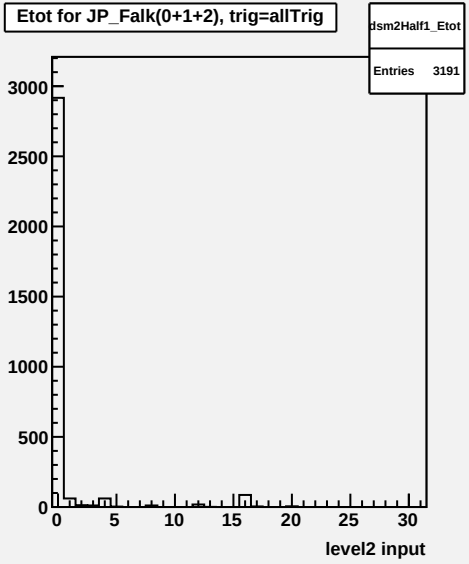

Emulated Sum Jet Patch 6 (DSMin 3)
JP6_sum
Entries 3191
Freq
Jet Patch Emu Sum

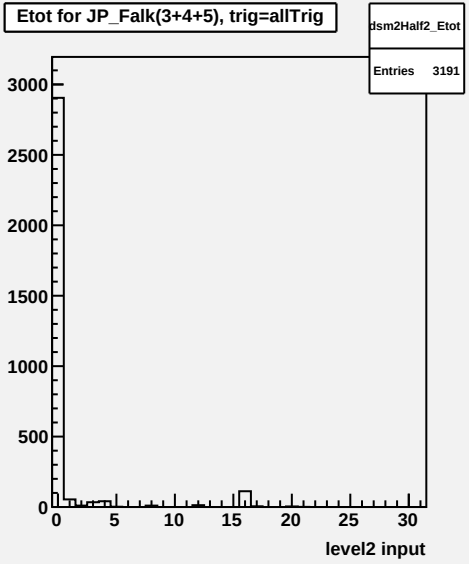

Jet Patch Sum <= JP0
JPsumTh0
Entries 18985
Frequency
Steve's Jet Patch ID

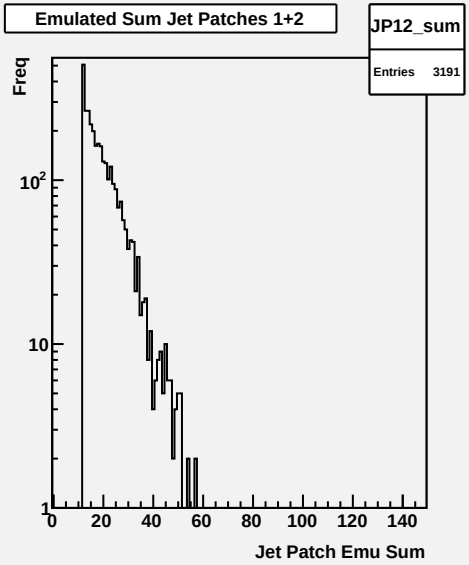

JP0 < Jet Patch Sum <= JP1
JPsumTh1
Entries 98
Frequency
Steve's Jet Patch ID

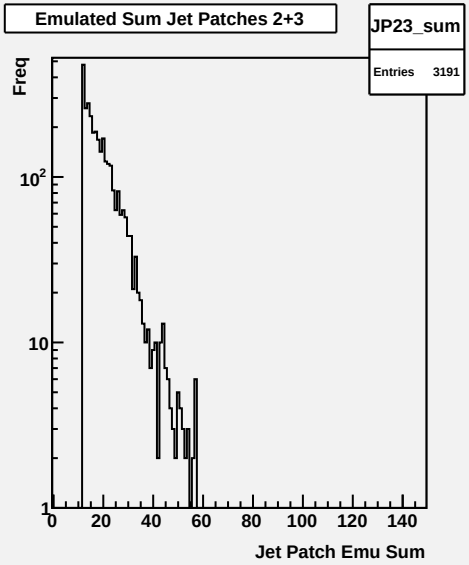

JP1 < Jet Patch Sum <= JP2
JPsumTh2
Entries 58
Frequency
Steve's Jet Patch ID

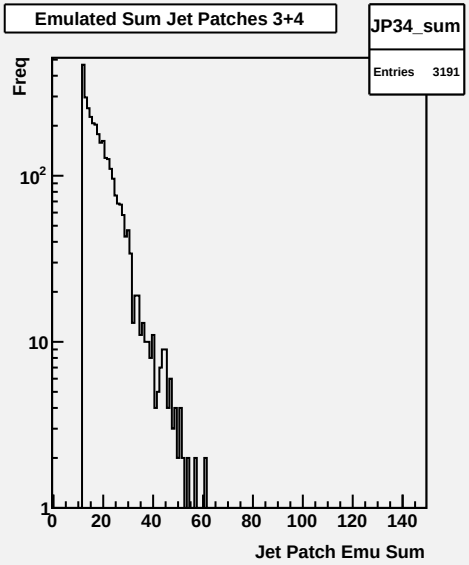

Jet Patch Sum > JP2
JPsumTh3
Entries 5
Frequency
Steve's Jet Patch ID

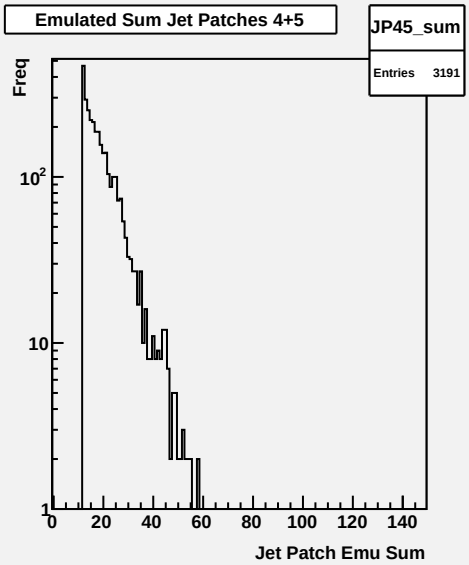

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 3191
level2 input

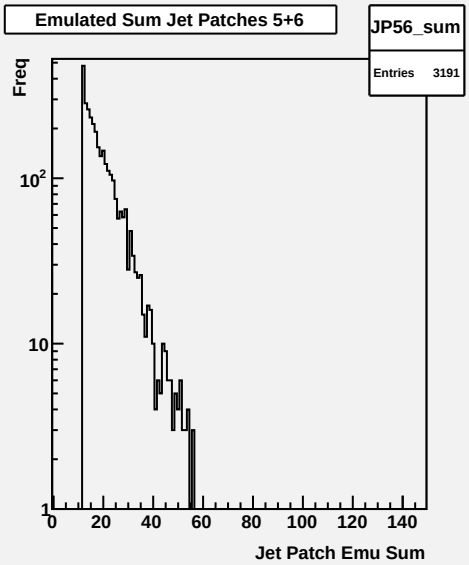

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 3191
level2 input

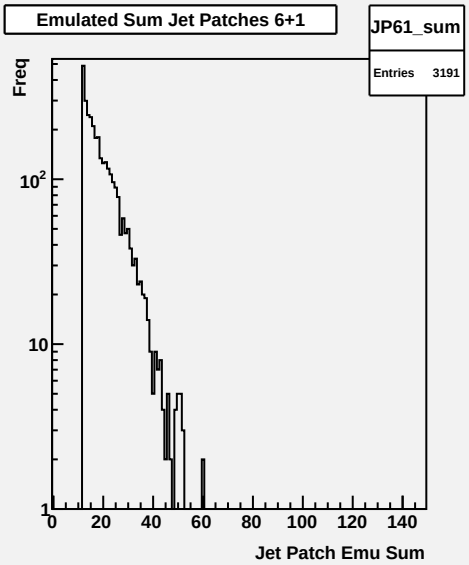

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 3191
Freq
Jet Patch Emu Sum

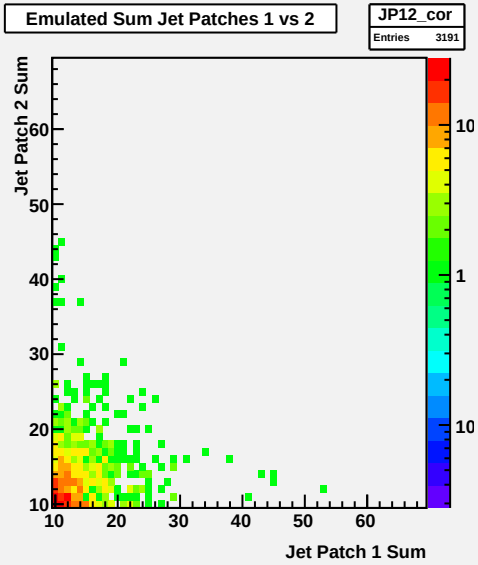

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 3191
Freq
Jet Patch Emu Sum

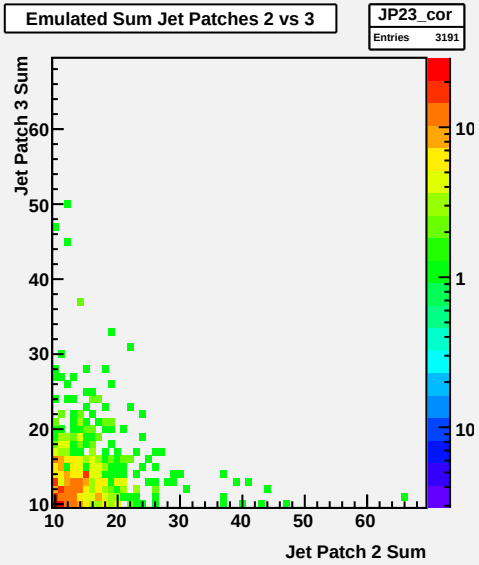

Emulated Sum Jet Patches 3+4
JP34_sum
Entries 3191
Freq
Jet Patch Emu Sum

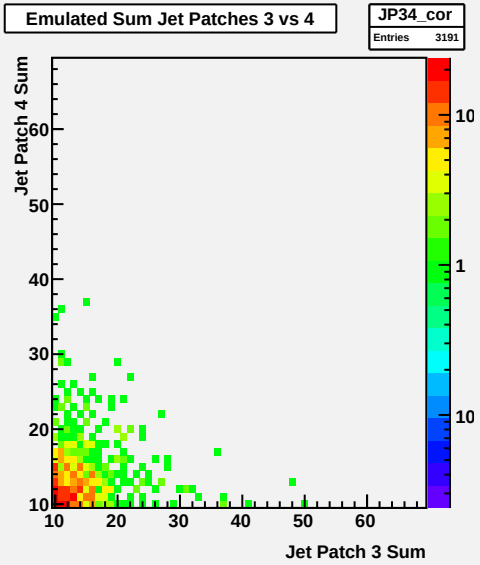

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 3191
Freq
Jet Patch Emu Sum

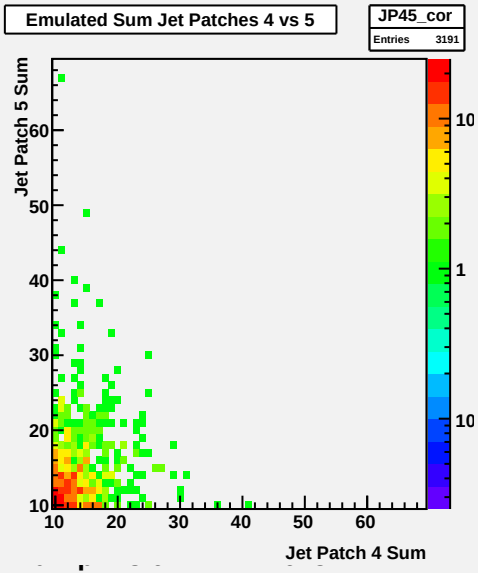

Emulated Sum Jet Patches 5+6
JP56_sum
Entries 3191
Freq
Jet Patch Emu Sum

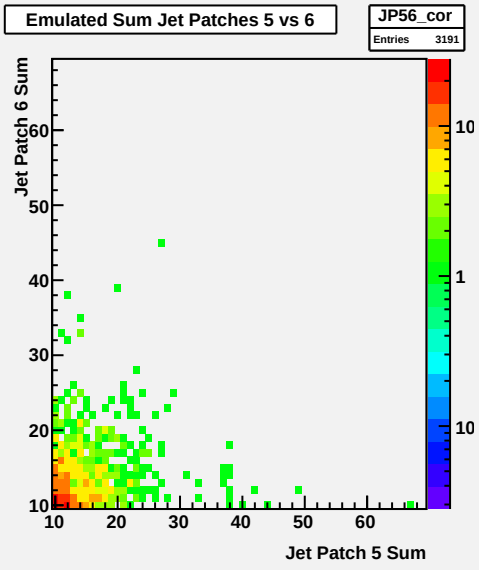

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 3191
Freq
Jet Patch Emu Sum

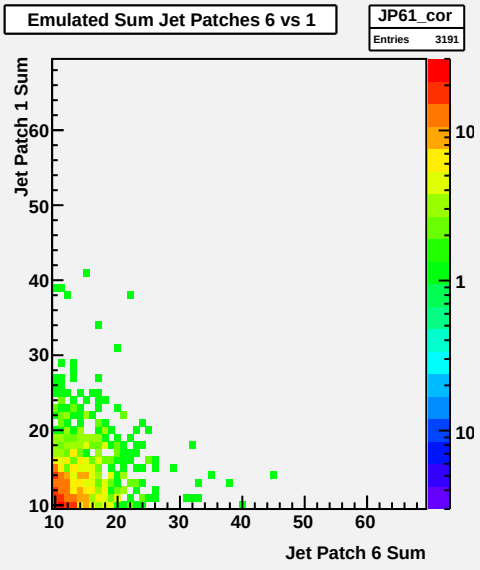

Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 3191
Jet Patch 2 Sum
Jet Patch 1 Sum


Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 3191
Jet Patch 3 Sum
Jet Patch 2 Sum

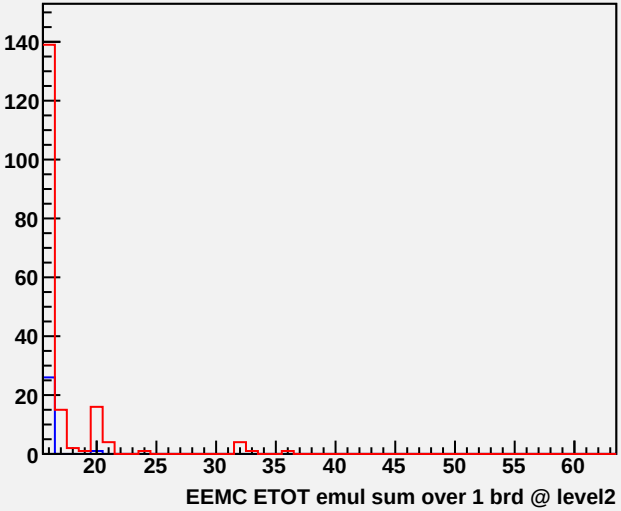

Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 3191
Jet Patch 4 Sum
Jet Patch 3 Sum


Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 3191
Jet Patch 5 Sum
Jet Patch 4 Sum

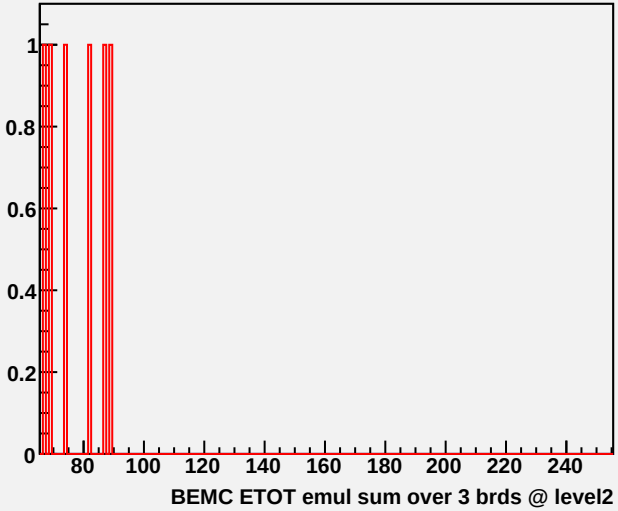

Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 3191
Jet Patch 6 Sum
Jet Patch 5 Sum


Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 3191
Jet Patch 1 Sum
Jet Patch 6 Sum

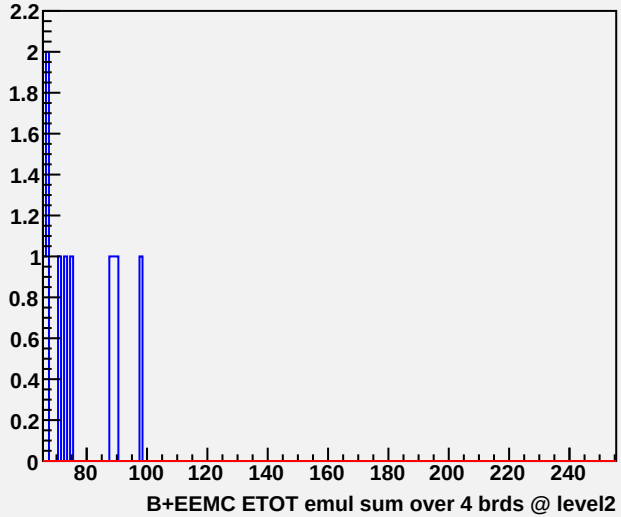
EEMC ETOT BIT=0, trig=allTrig

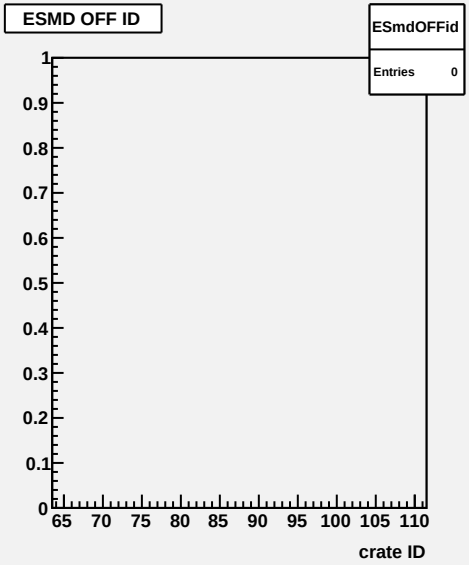


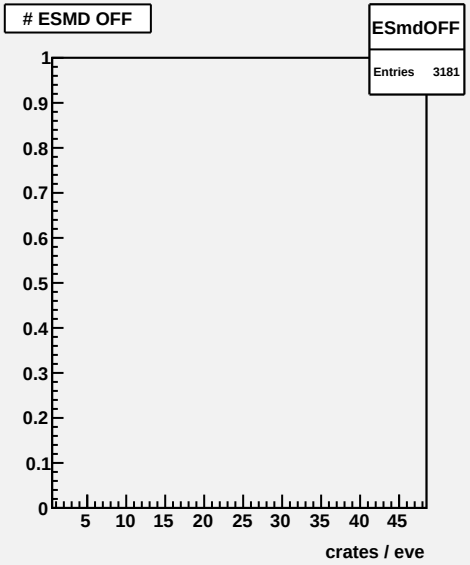
BEMC ETOT BIT=0, trig=allTrig

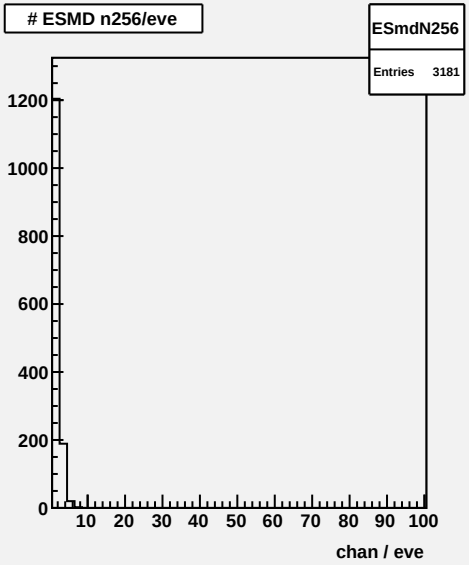


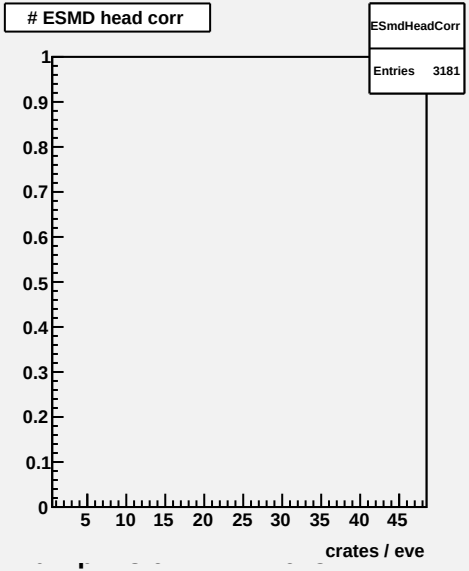
B+EEMC ETOT BIT=0, trig=allTrig

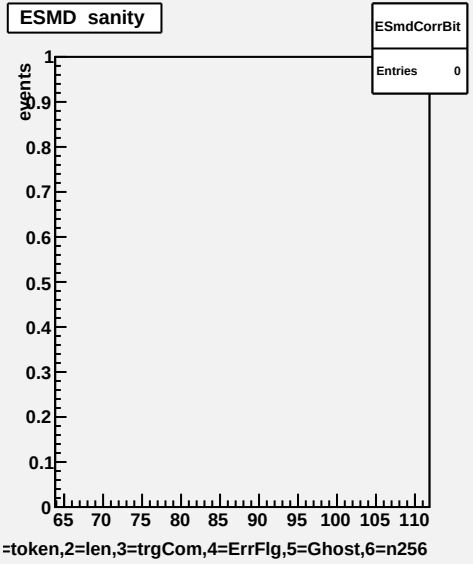


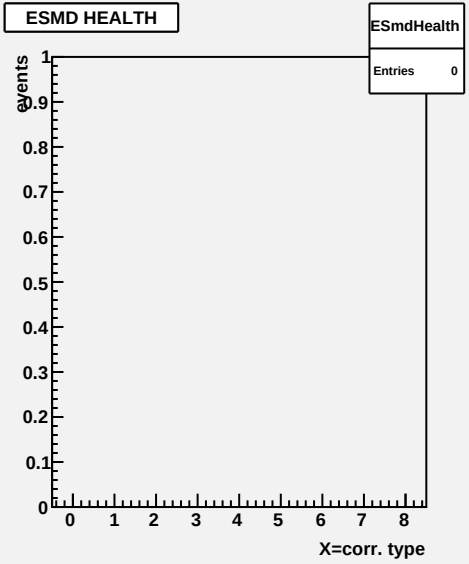

ESMD OFF ID
ESmdOFFid
Entries 0
crate ID

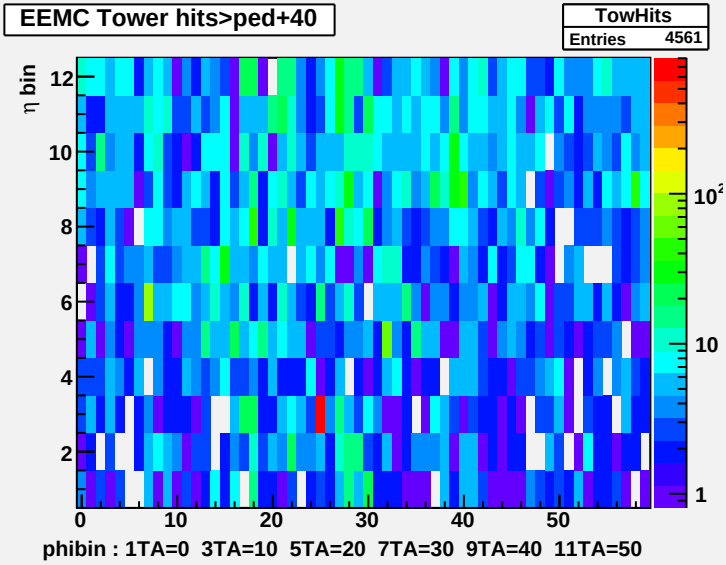

ESMD OFF
ESmdOFF
Entries 3181
crates / eve

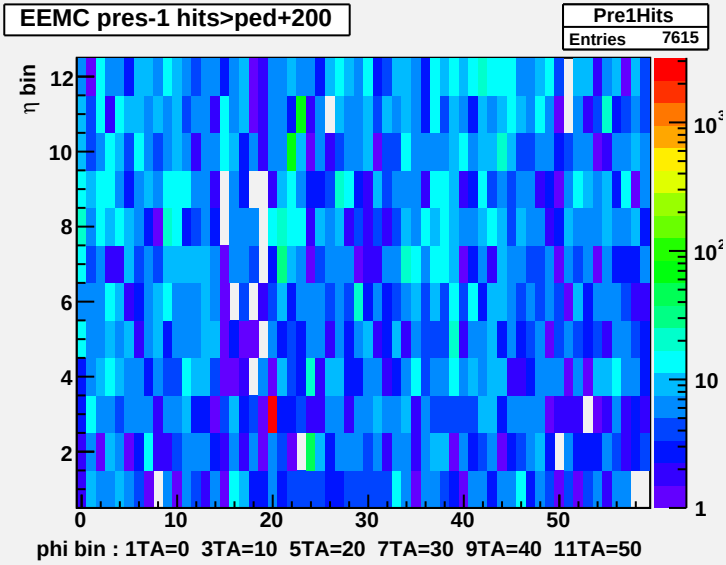

ESMD n256/eve
ESmdN256
Entries 3181
chan / eve

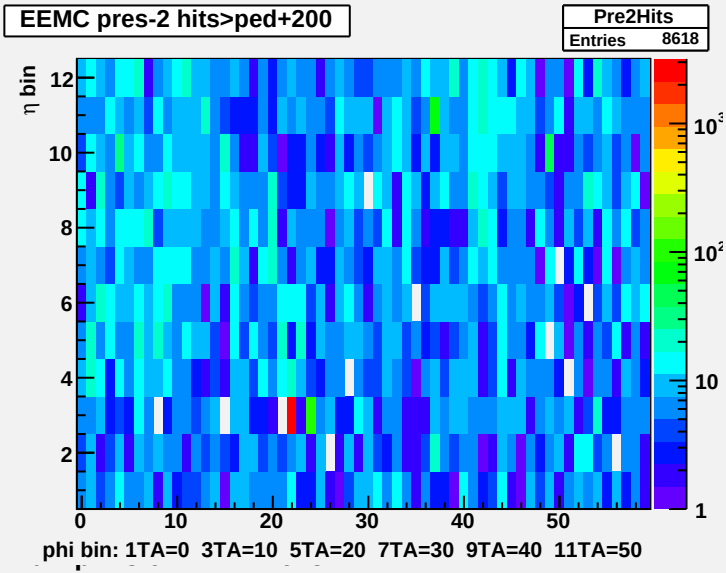

ESMD head corr
ESmdHeadCorr
Entries 3181
crates / eve

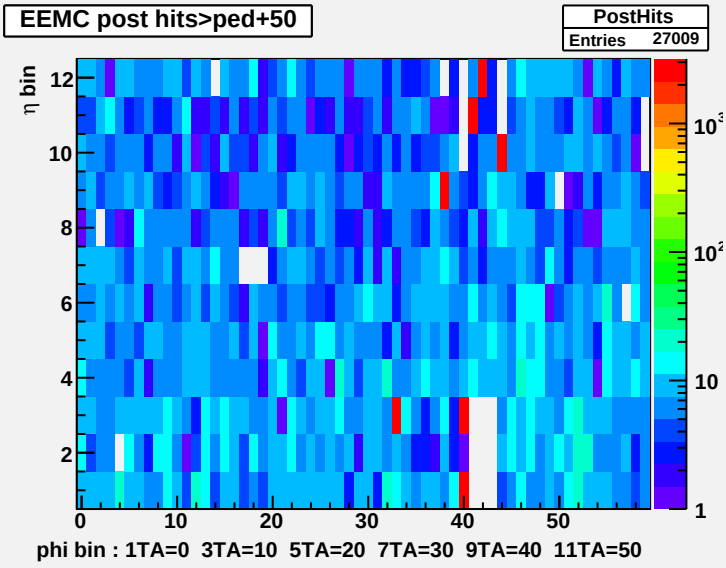

ESMD sanity
ESmdCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

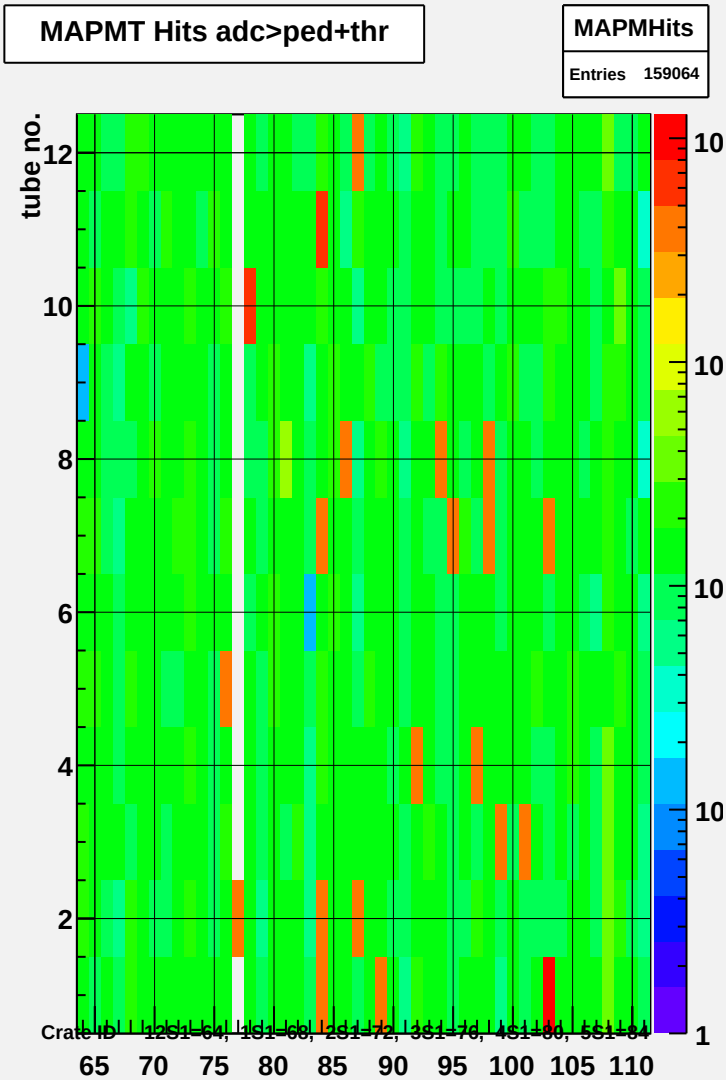

ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

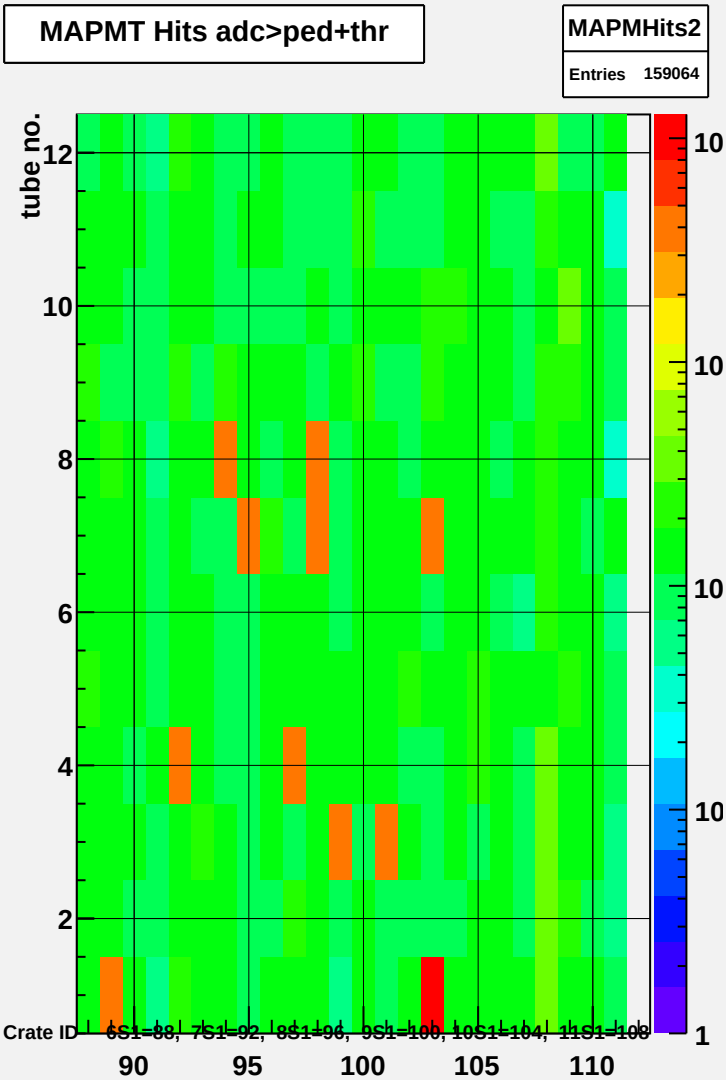

EEMC Tower hits>ped+40
TowHits
Entries 4561
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

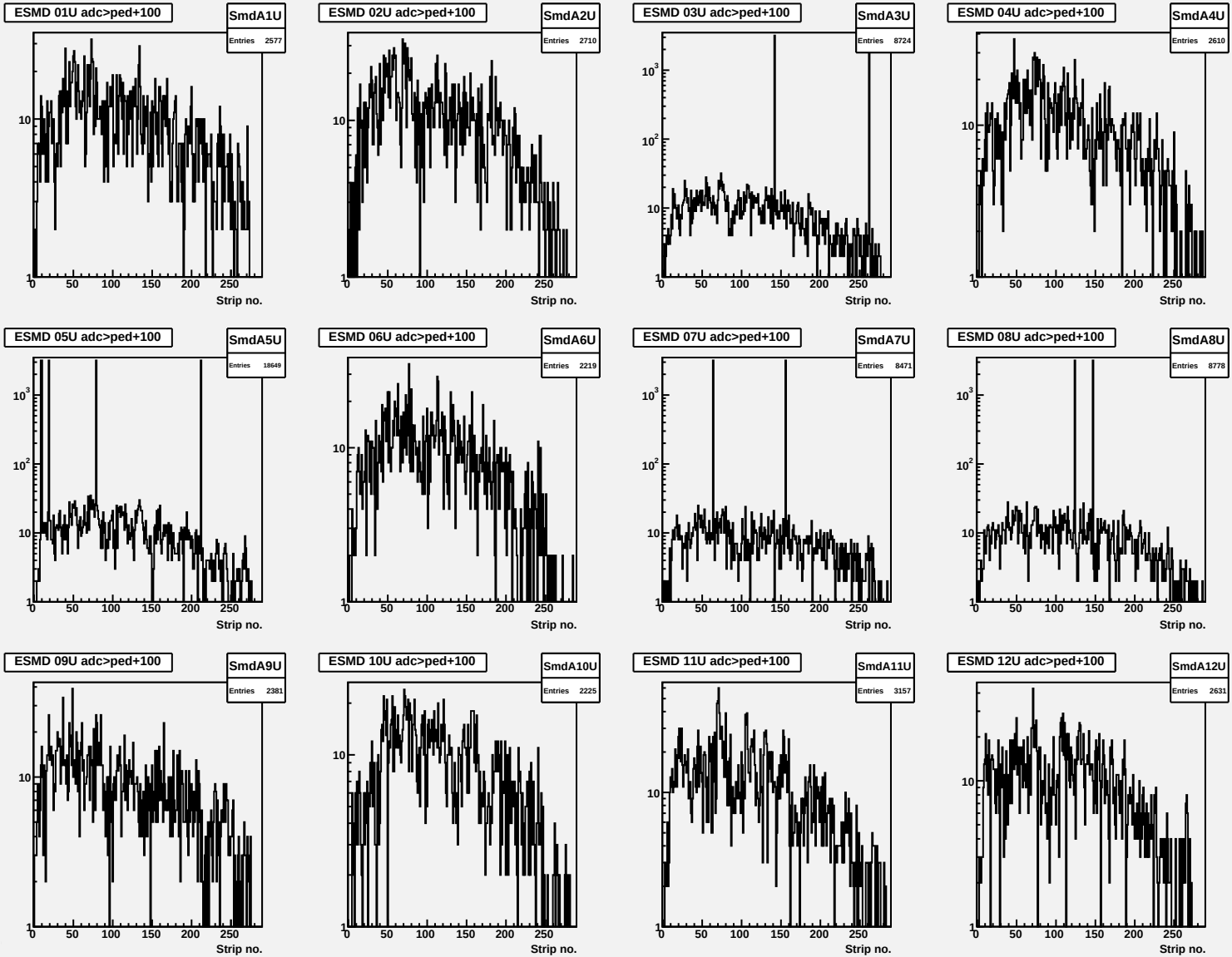

EEMC pres-1 hits>ped+200
Pre1Hits
Entries 7615
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

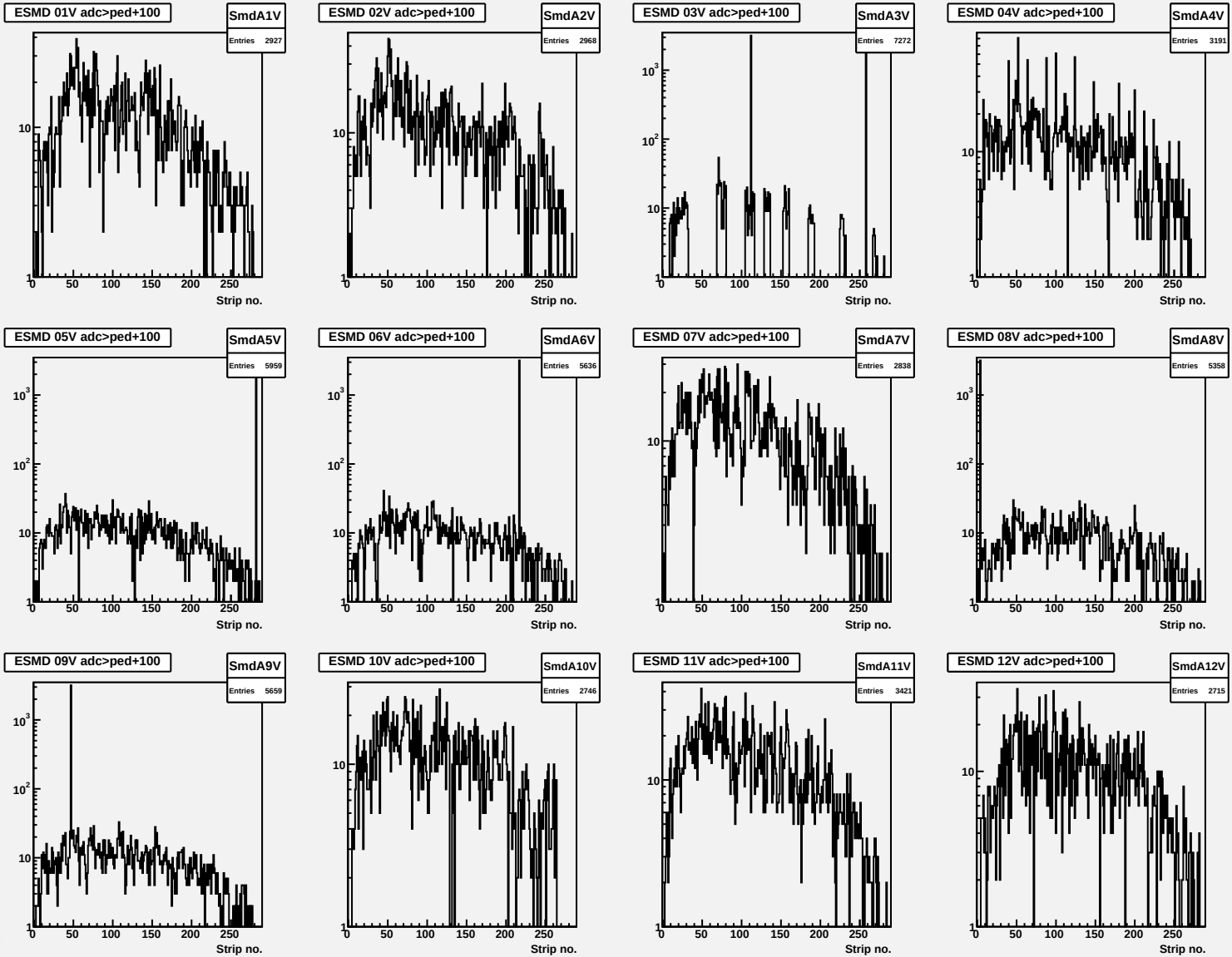

EEMC pres-2 hits>ped+200
Pre2Hits
Entries 8618
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

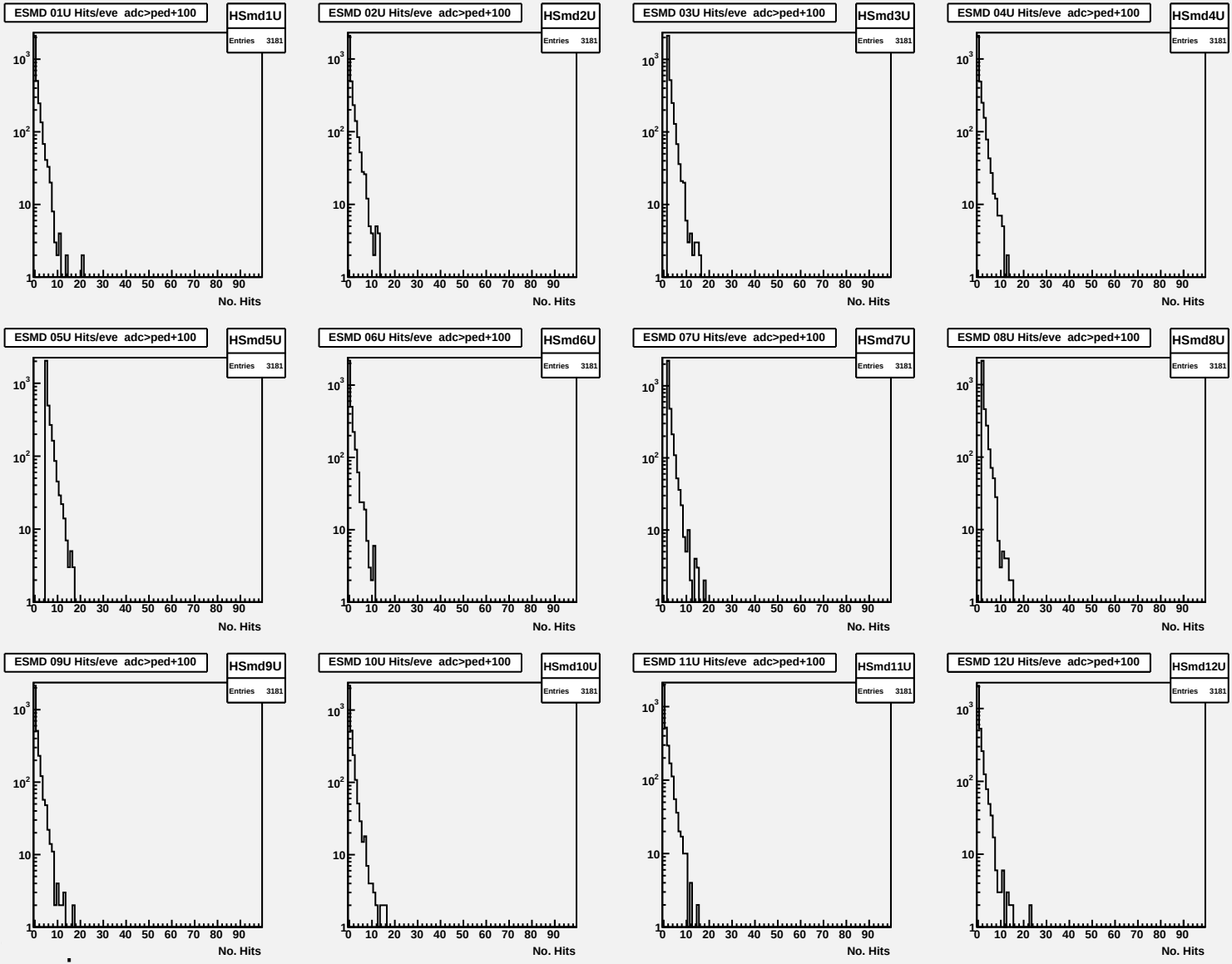

EEMC post hits>ped+50
PostHits
Entries 27009
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

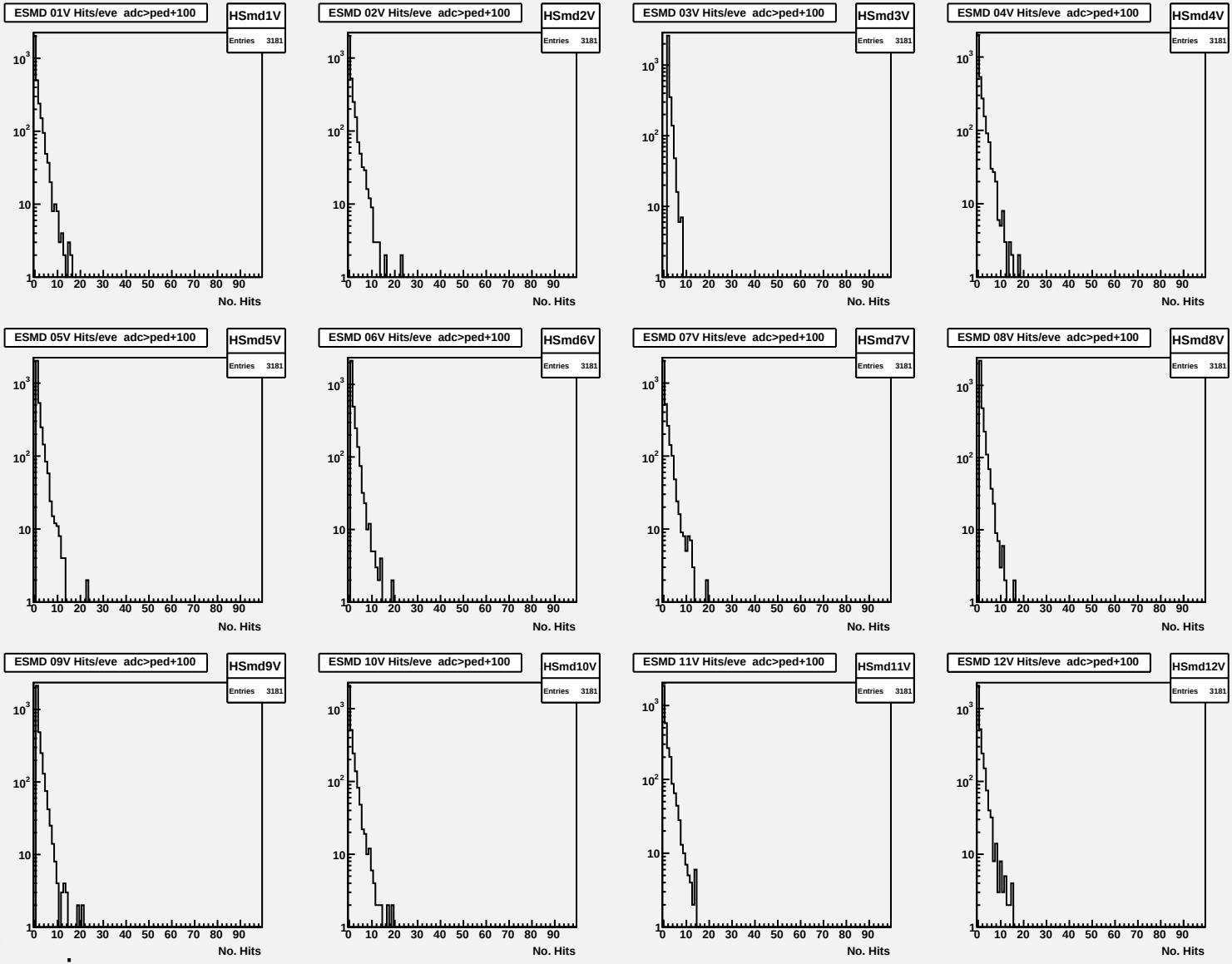

MAPMT Hits adc>ped+thr
MAPMHits
Entries 159064
tube no.
Crate ID
12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
65 70 75 80 85 90 95 100 105 110
1 2 4 6 8 10 12
1 10 10 10 10 10

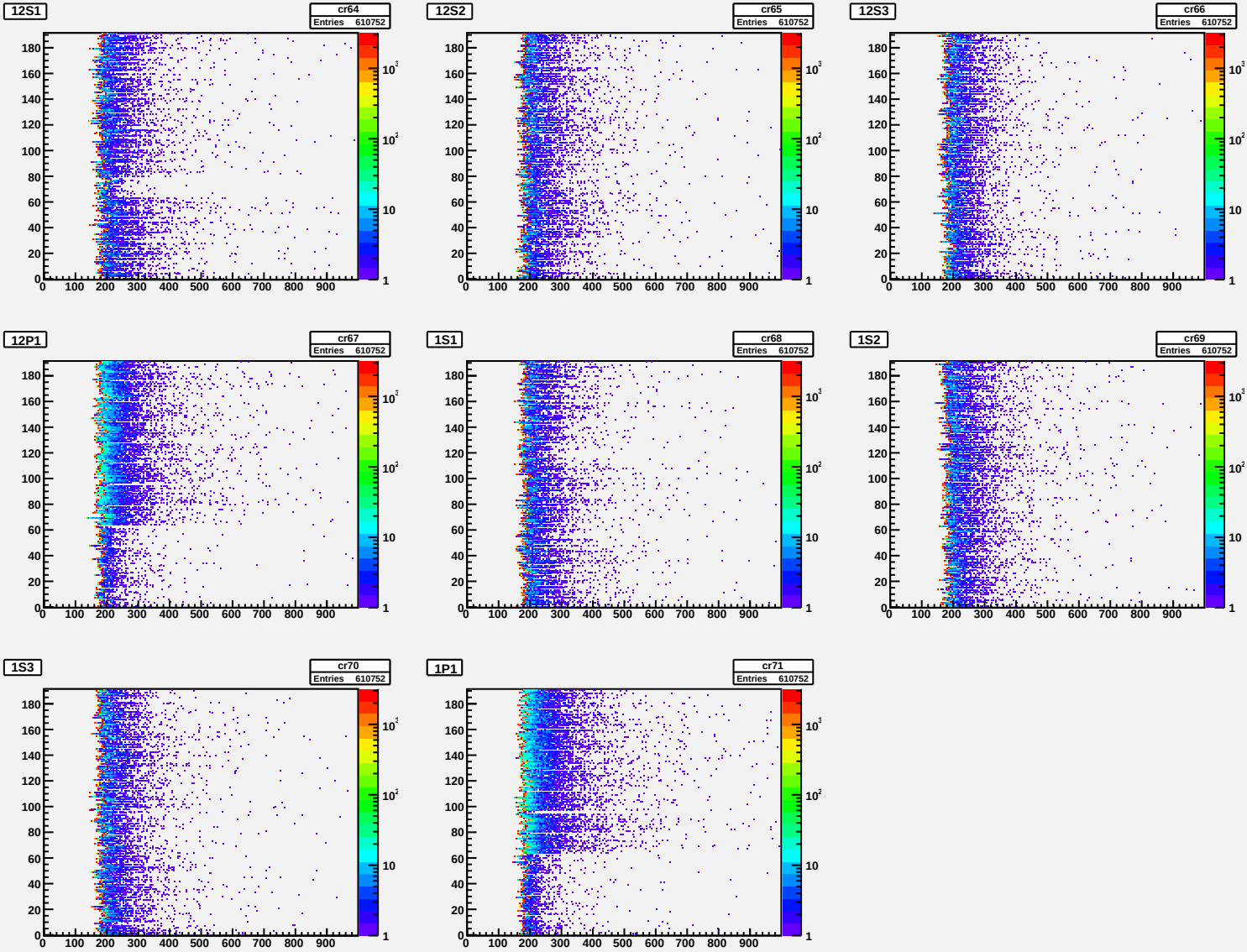

MAPMT Hits adc>ped+thr
MAPMHits2
Entries 159064
tube no.
Crate ID
6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
90 95 100 105 110
1 2 4 6 8 10 12
1 10 10 10 10 10

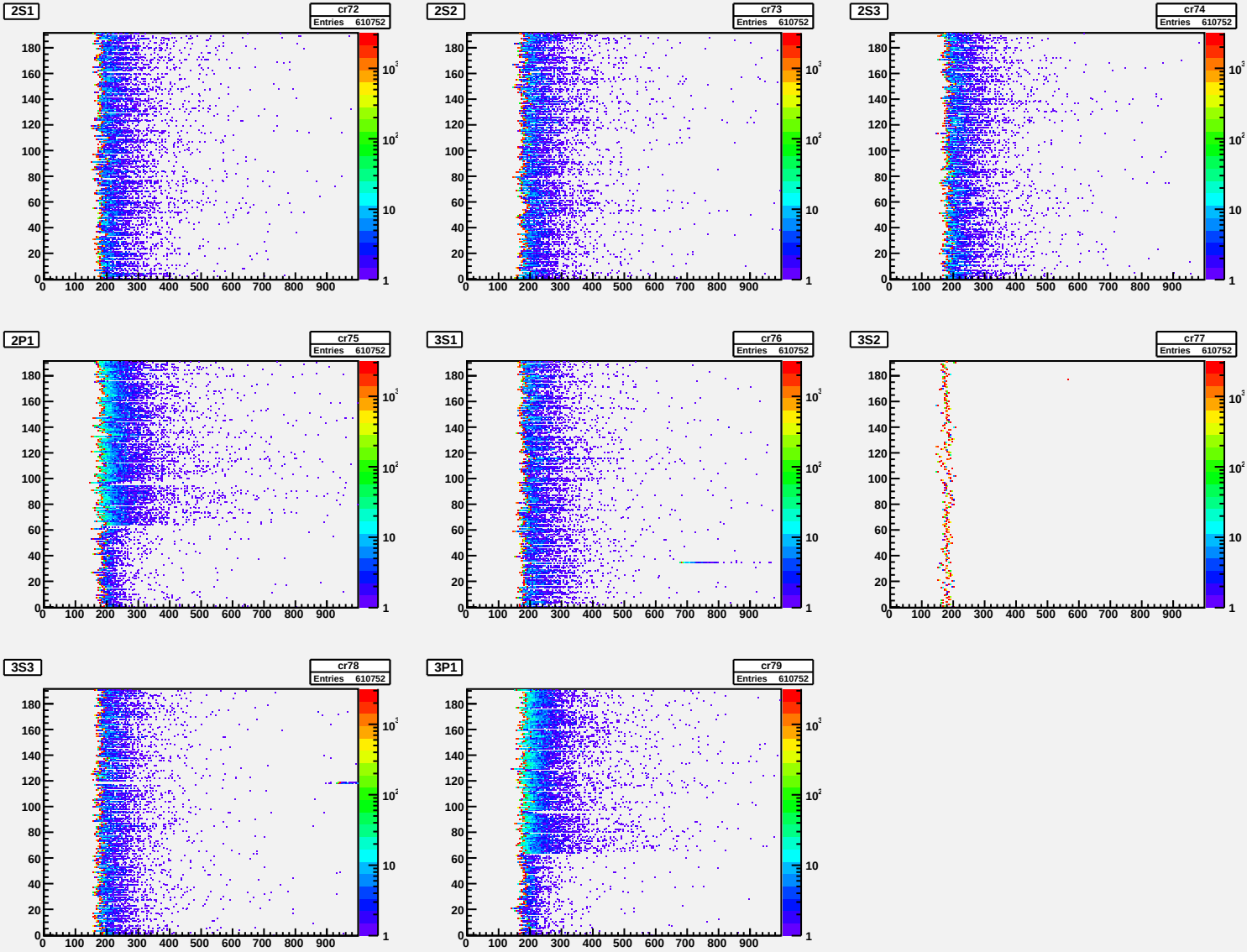

ESMD 01U adc>ped+100
SmdA1U
Entries 2577
ESMD 02U adc>ped+100
SmdA2U
Entries 2710
ESMD 03U adc>ped+100
SmdA3U
Entries 8724
ESMD 04U adc>ped+100
SmdA4U
Entries 2610
ESMD 05U adc>ped+100
SmdA5U
Entries 18649
ESMD 06U adc>ped+100
SmdA6U
Entries 2219
ESMD 07U adc>ped+100
SmdA7U
Entries 8471
ESMD 08U adc>ped+100
SmdA8U
Entries 8778
ESMD 09U adc>ped+100
SmdA9U
Entries 2381
ESMD 10U adc>ped+100
SmdA10U
Entries 2225
ESMD 11U adc>ped+100
SmdA11U
Entries 3157
ESMD 12U adc>ped+100
SmdA12U
Entries 2631
Strip no.

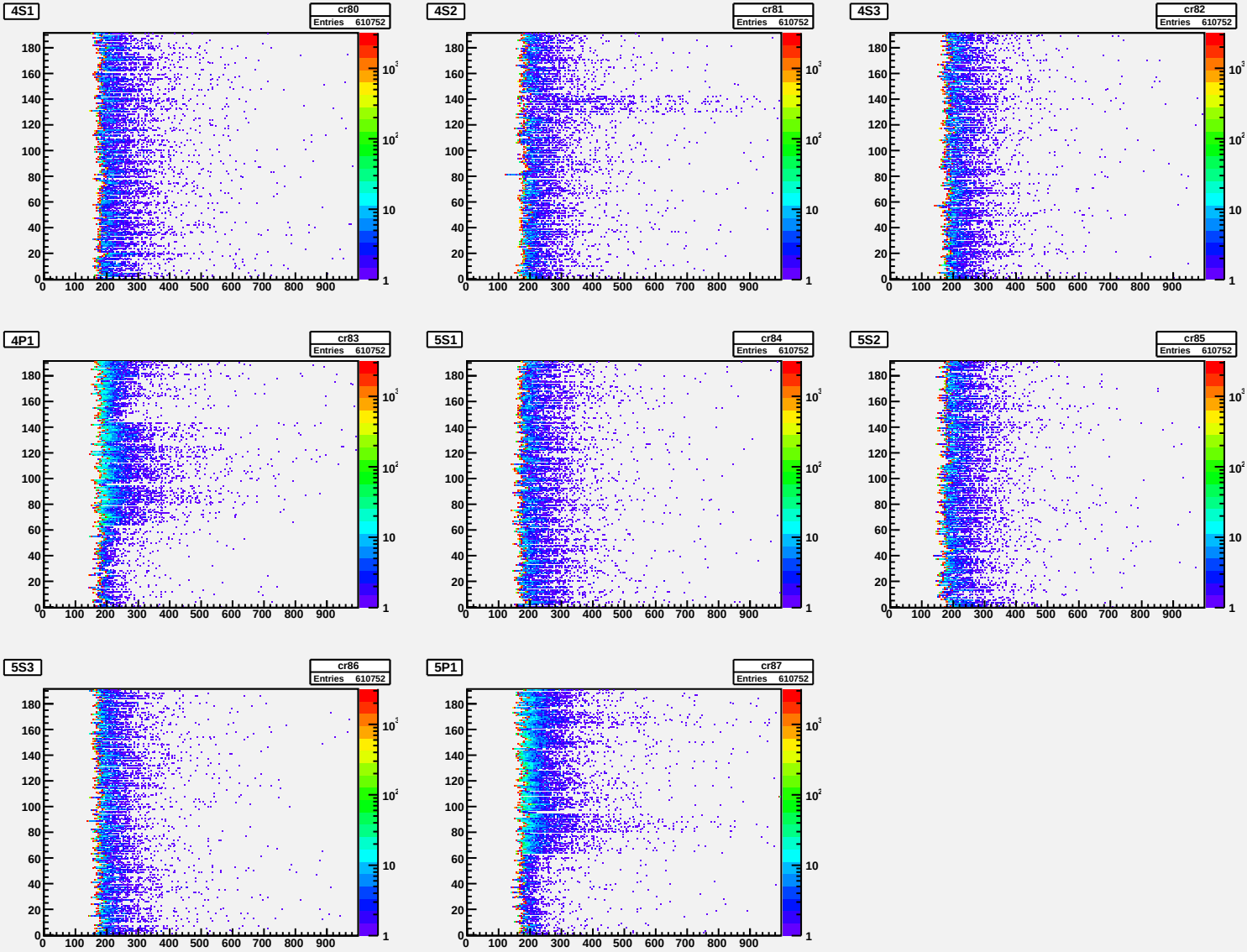

ESMD 01V adc>ped+100
SmdA1V
Entries 2927
ESMD 02V adc>ped+100
SmdA2V
Entries 2968
ESMD 03V adc>ped+100
SmdA3V
Entries 7272
ESMD 04V adc>ped+100
SmdA4V
Entries 3191
ESMD 05V adc>ped+100
SmdA5V
Entries 5959
ESMD 06V adc>ped+100
SmdA6V
Entries 5636
ESMD 07V adc>ped+100
SmdA7V
Entries 2838
ESMD 08V adc>ped+100
SmdA8V
Entries 5358
ESMD 09V adc>ped+100
SmdA9V
Entries 5659
ESMD 10V adc>ped+100
SmdA10V
Entries 2746
ESMD 11V adc>ped+100
SmdA11V
Entries 3421
ESMD 12V adc>ped+100
SmdA12V
Entries 2715
Strip no.

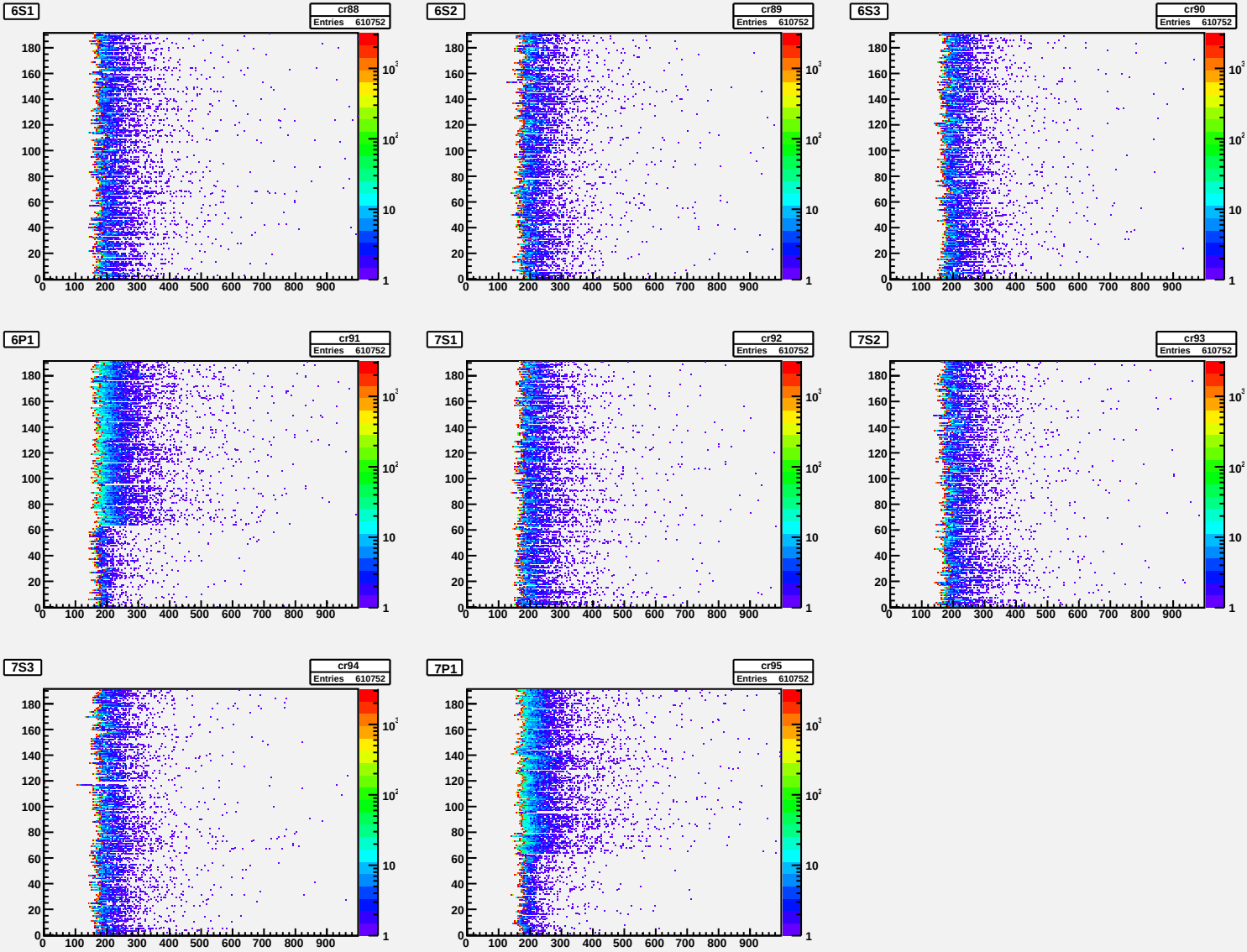

ESMD 01U Hits/eve adc>ped+100
HSmd1U
Entries 3181
ESMD 02U Hits/eve adc>ped+100
HSmd2U
Entries 3181
ESMD 03U Hits/eve adc>ped+100
HSmd3U
Entries 3181
ESMD 04U Hits/eve adc>ped+100
HSmd4U
Entries 3181
ESMD 05U Hits/eve adc>ped+100
HSmd5U
Entries 3181
ESMD 06U Hits/eve adc>ped+100
HSmd6U
Entries 3181
ESMD 07U Hits/eve adc>ped+100
HSmd7U
Entries 3181
ESMD 08U Hits/eve adc>ped+100
HSmd8U
Entries 3181
ESMD 09U Hits/eve adc>ped+100
HSmd9U
Entries 3181
ESMD 10U Hits/eve adc>ped+100
HSmd10U
Entries 3181
ESMD 11U Hits/eve adc>ped+100
HSmd11U
Entries 3181
ESMD 12U Hits/eve adc>ped+100
HSmd12U
Entries 3181
No. Hits

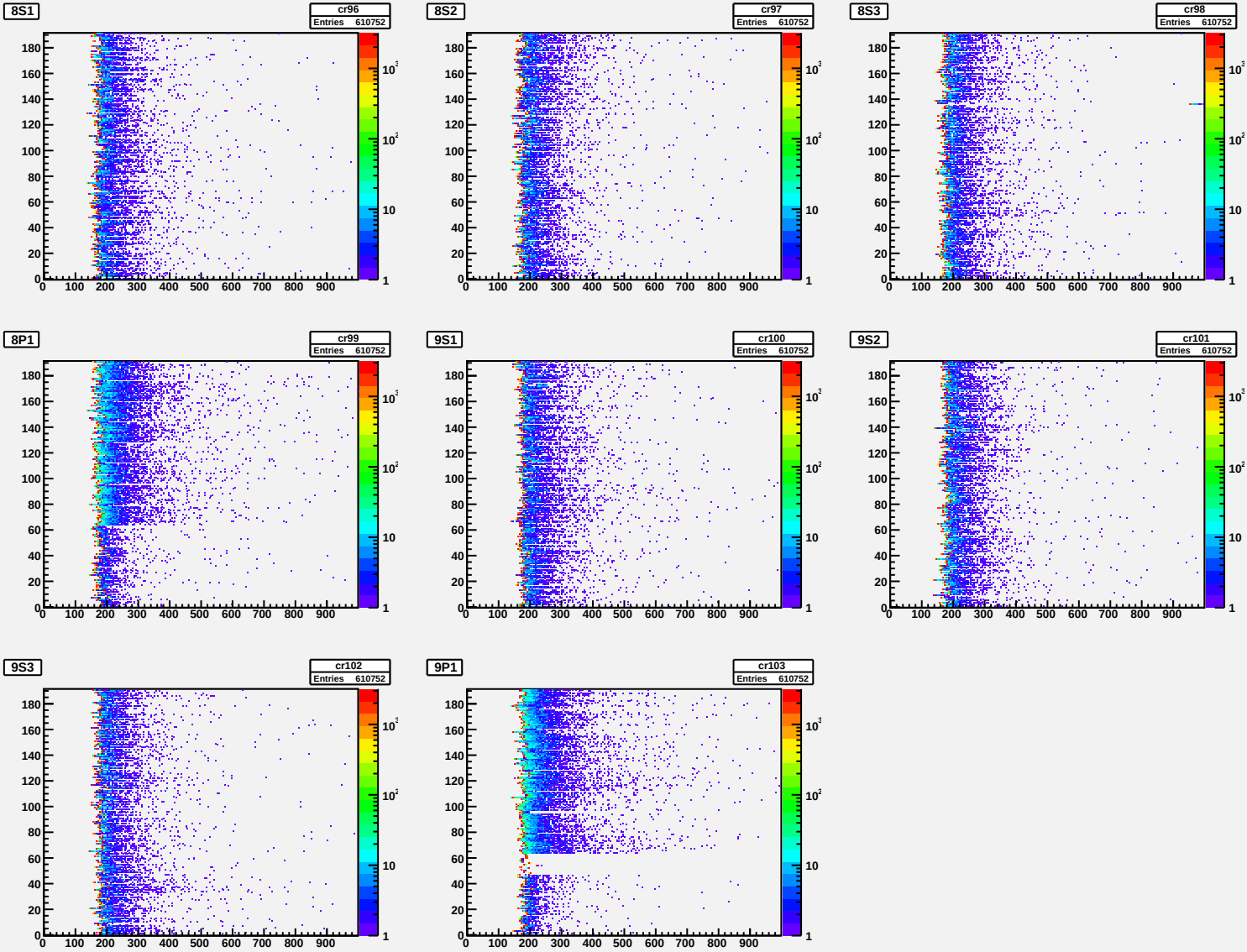

ESMD 01V Hits/eve adc>ped+100
HSmd1V
Entries 3181
ESMD 02V Hits/eve adc>ped+100
HSmd2V
Entries 3181
ESMD 03V Hits/eve adc>ped+100
HSmd3V
Entries 3181
ESMD 04V Hits/eve adc>ped+100
HSmd4V
Entries 3181
ESMD 05V Hits/eve adc>ped+100
HSmd5V
Entries 3181
ESMD 06V Hits/eve adc>ped+100
HSmd6V
Entries 3181
ESMD 07V Hits/eve adc>ped+100
HSmd7V
Entries 3181
ESMD 08V Hits/eve adc>ped+100
HSmd8V
Entries 3181
ESMD 09V Hits/eve adc>ped+100
HSmd9V
Entries 3181
ESMD 10V Hits/eve adc>ped+100
HSmd10V
Entries 3181
ESMD 11V Hits/eve adc>ped+100
HSmd11V
Entries 3181
ESMD 12V Hits/eve adc>ped+100
HSmd12V
Entries 3181
No. Hits

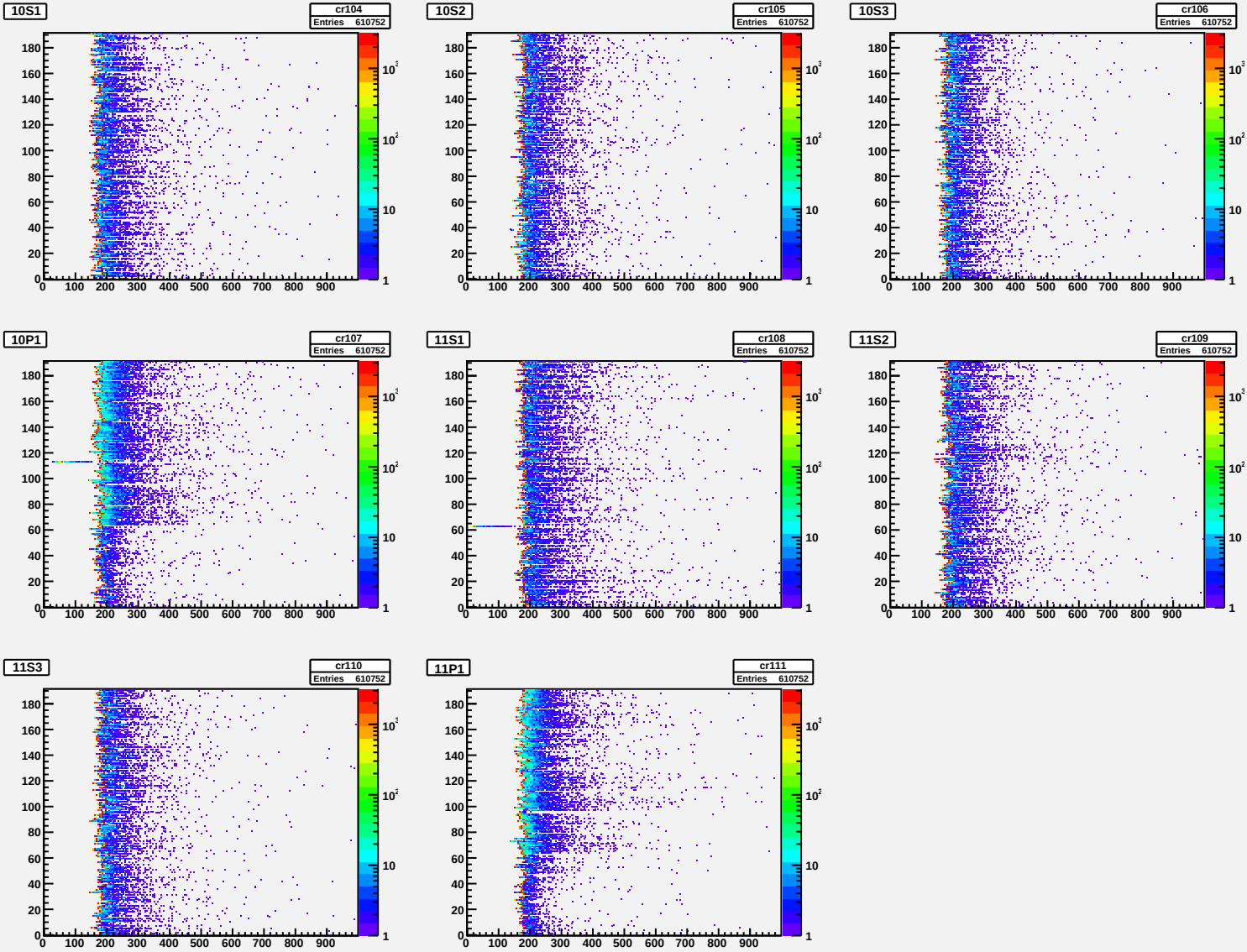

12S1
cr64
Entries 610752
12S2
cr65
Entries 610752
12S3
cr66
Entries 610752
12P1
cr67
Entries 610752
1S1
cr68
Entries 610752
1S2
cr69
Entries 610752
1S3
cr70
Entries 610752
1P1
cr71
Entries 610752


2S1
cr72
Entries 610752
2S2
cr73
Entries 610752
2S3
cr74
Entries 610752
2P1
cr75
Entries 610752
3S1
cr76
Entries 610752
3S2
cr77
Entries 610752
3S3
cr78
Entries 610752
3P1
cr79
Entries 610752

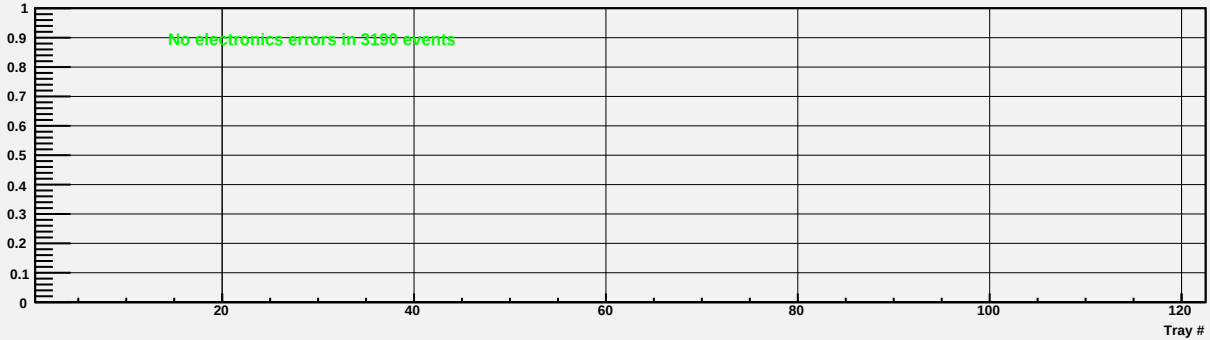

4S1
cr80
Entries 610752
4S2
cr81
Entries 610752
4S3
cr82
Entries 610752
4P1
cr83
Entries 610752
5S1
cr84
Entries 610752
5S2
cr85
Entries 610752
5S3
cr86
Entries 610752
5P1
cr87
Entries 610752


6S1
cr88
Entries 610752
6S2
cr89
Entries 610752
6S3
cr90
Entries 610752
6P1
cr91
Entries 610752
7S1
cr92
Entries 610752
7S2
cr93
Entries 610752
7S3
cr94
Entries 610752
7P1
cr95
Entries 610752

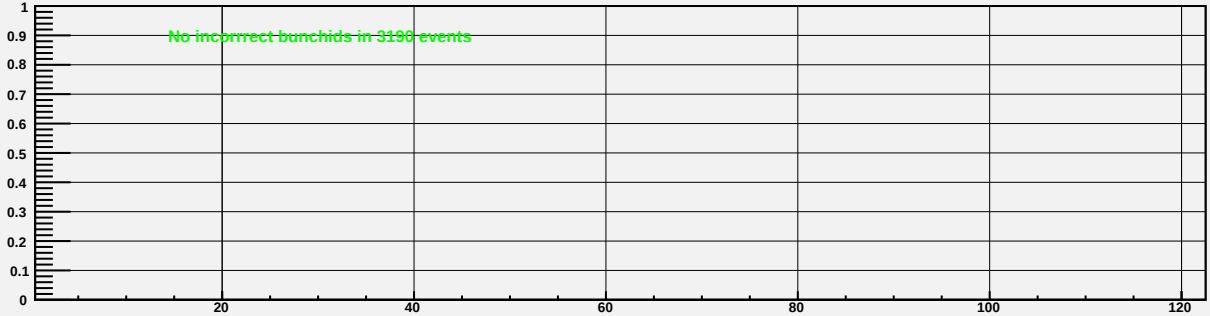

8S1
cr96
Entries 610752
8S2
cr97
Entries 610752
8S3
cr98
Entries 610752
8P1
cr99
Entries 610752
9S1
cr100
Entries 610752
9S2
cr101
Entries 610752
9S3
cr102
Entries 610752
9P1
cr103
Entries 610752


10S1
cr104
Entries 610752
10S2
cr105
Entries 610752
10S3
cr106
Entries 610752
10P1
cr107
Entries 610752
11S1
cr108
Entries 610752
11S2
cr109
Entries 610752
11S3
cr110
Entries 610752
11P1
cr111
Entries 610752

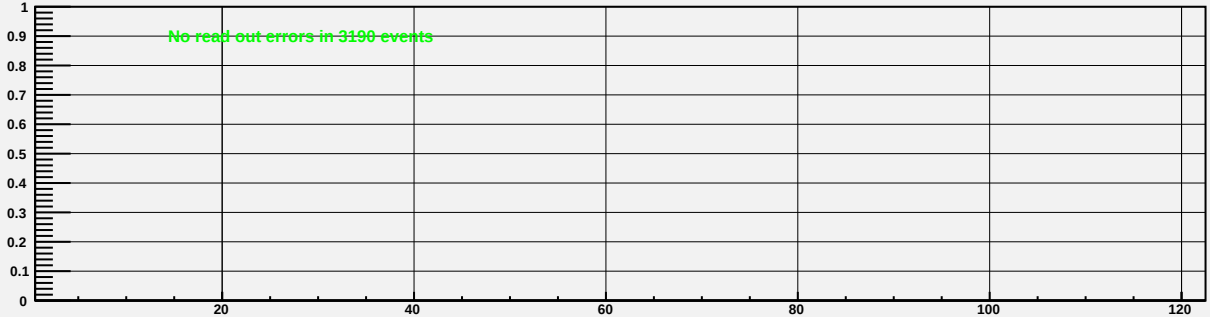
TOF electronics errors

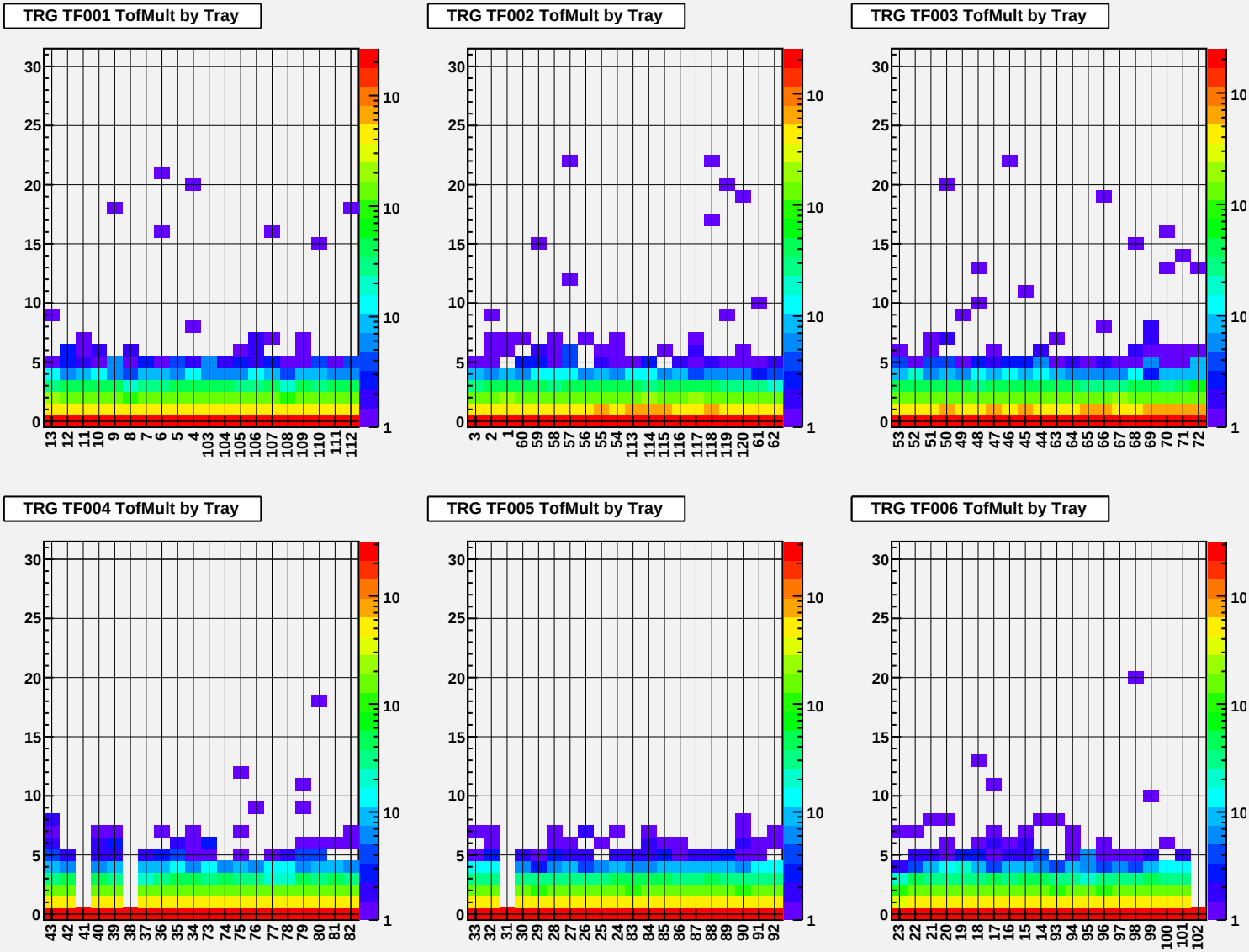


TOF incorrect bunchid errors

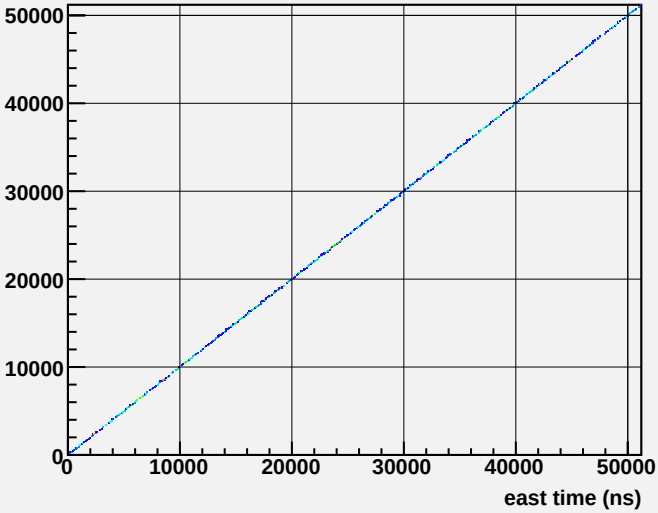


TOF trays not read out (bunchid not found)

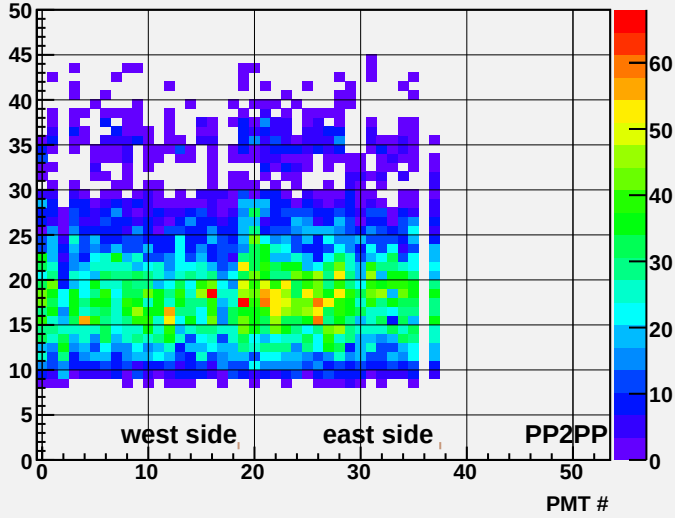



TRG TF001 TofMult by Tray
TRG TF002 TofMult by Tray
TRG TF003 TofMult by Tray
TRG TF004 TofMult by Tray
TRG TF005 TofMult by Tray
TRG TF006 TofMult by Tray

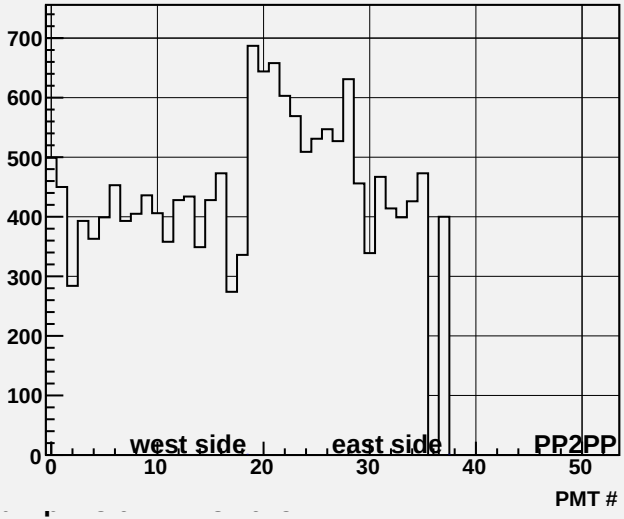
upvpd eastT vs westT



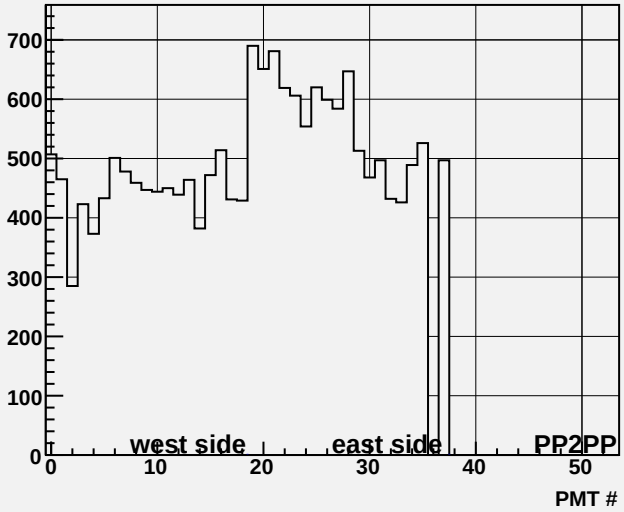
upvpd ToT vs PMT#

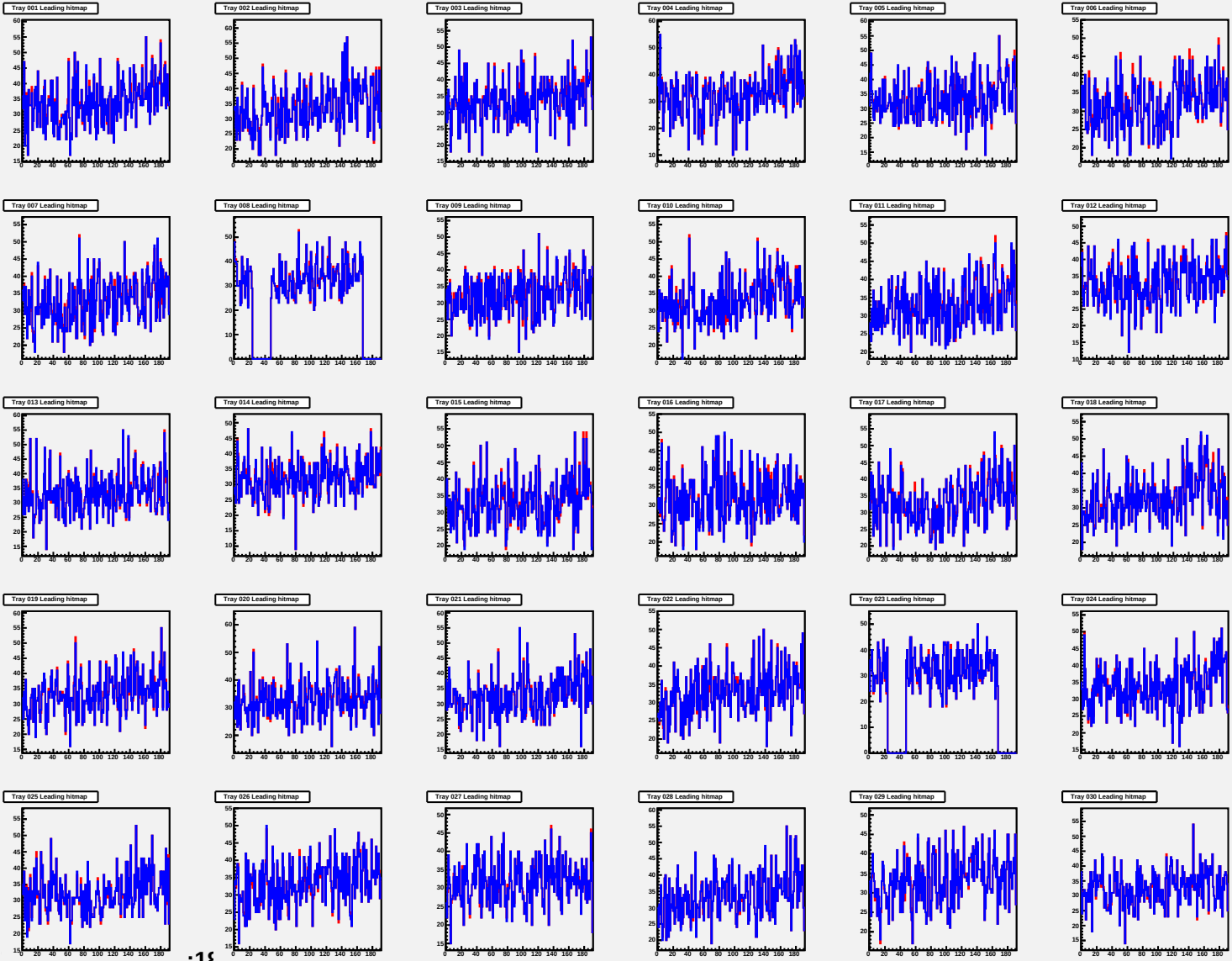


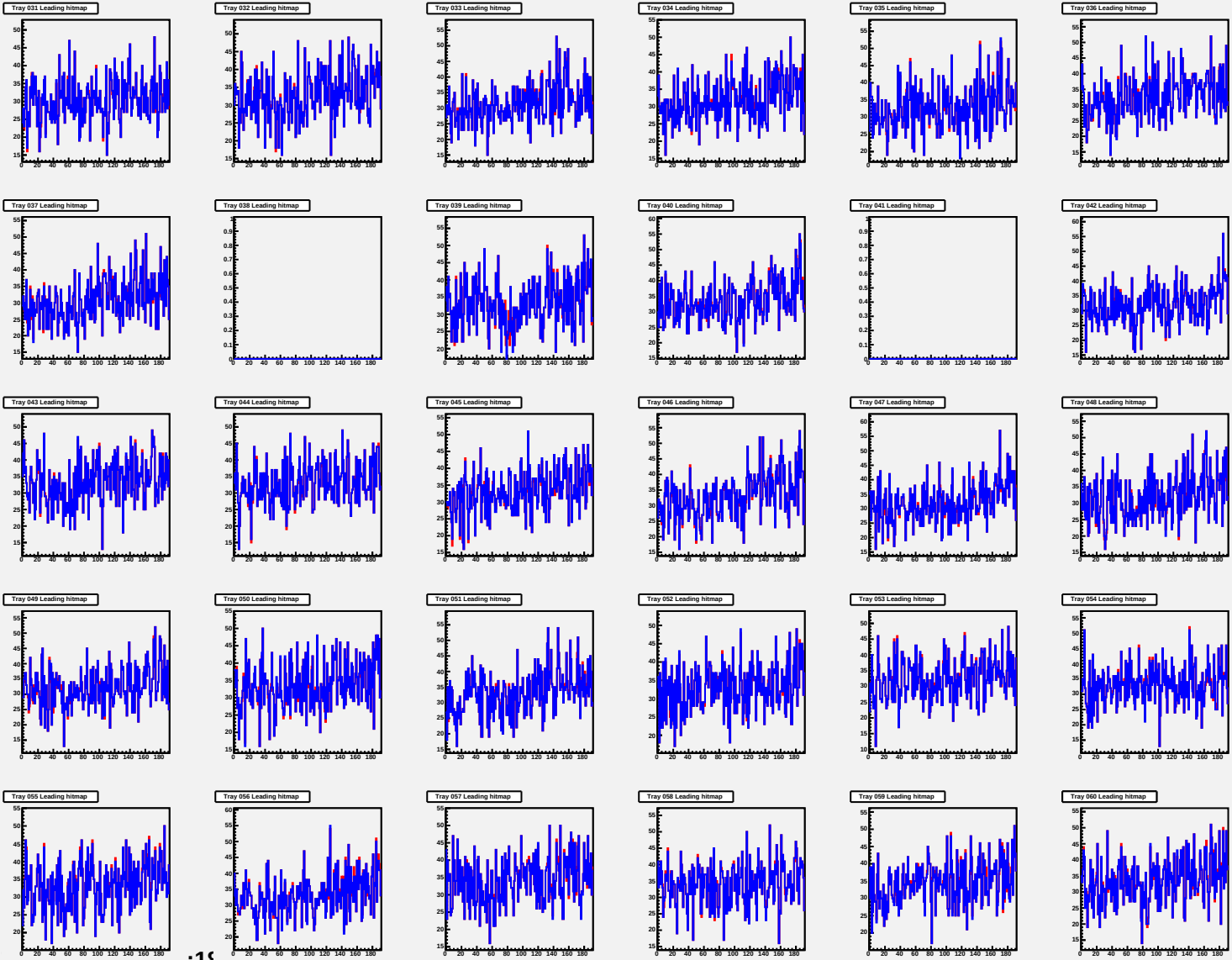
upvpd Trailing edge hitmap



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
Tray 032 Leading hitmap
Tray 033 Leading hitmap
Tray 034 Leading hitmap
Tray 035 Leading hitmap
Tray 036 Leading hitmap
Tray 037 Leading hitmap
Tray 038 Leading hitmap
Tray 039 Leading hitmap
Tray 040 Leading hitmap
Tray 041 Leading hitmap
Tray 042 Leading hitmap
Tray 043 Leading hitmap
Tray 044 Leading hitmap
Tray 045 Leading hitmap
Tray 046 Leading hitmap
Tray 047 Leading hitmap
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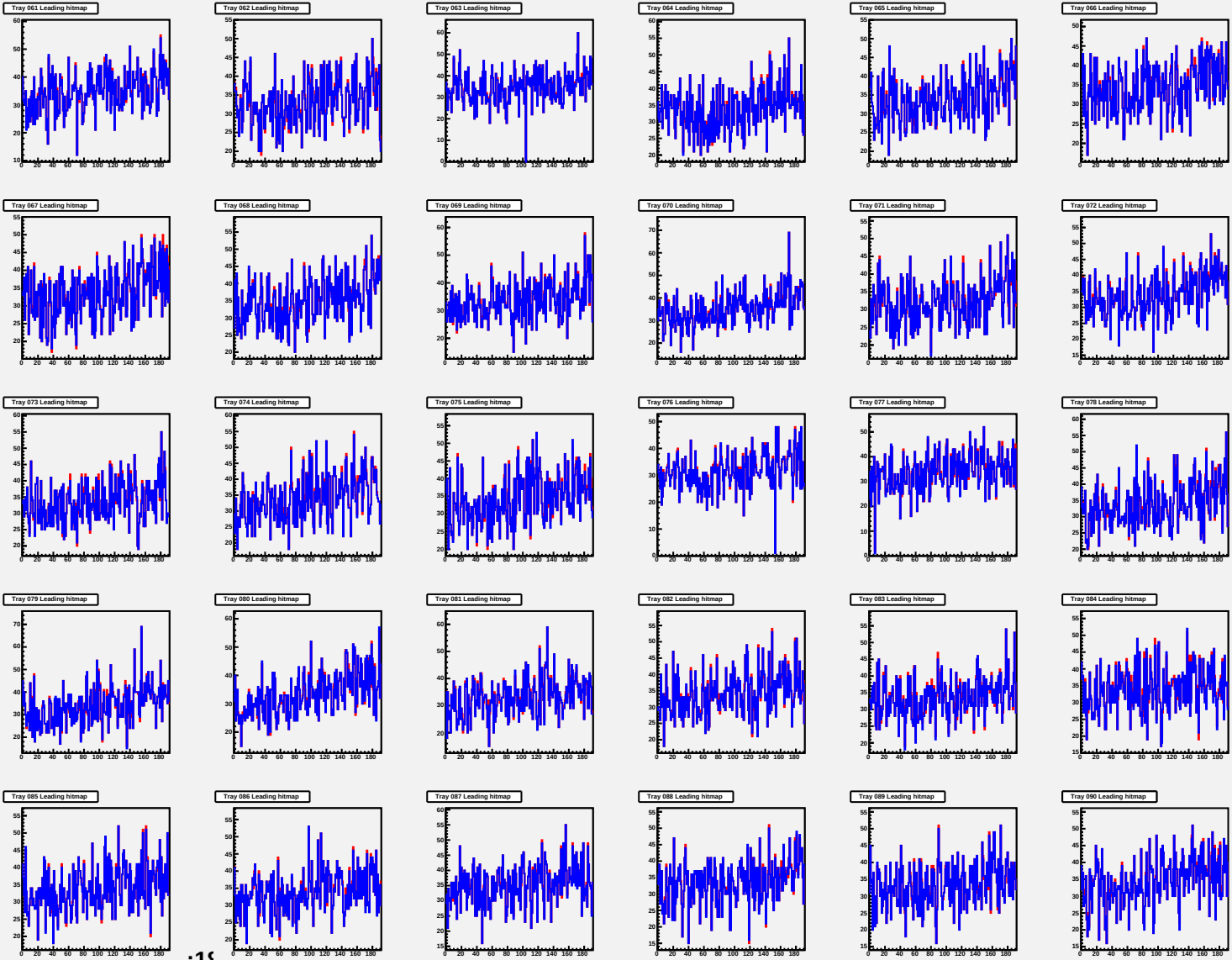
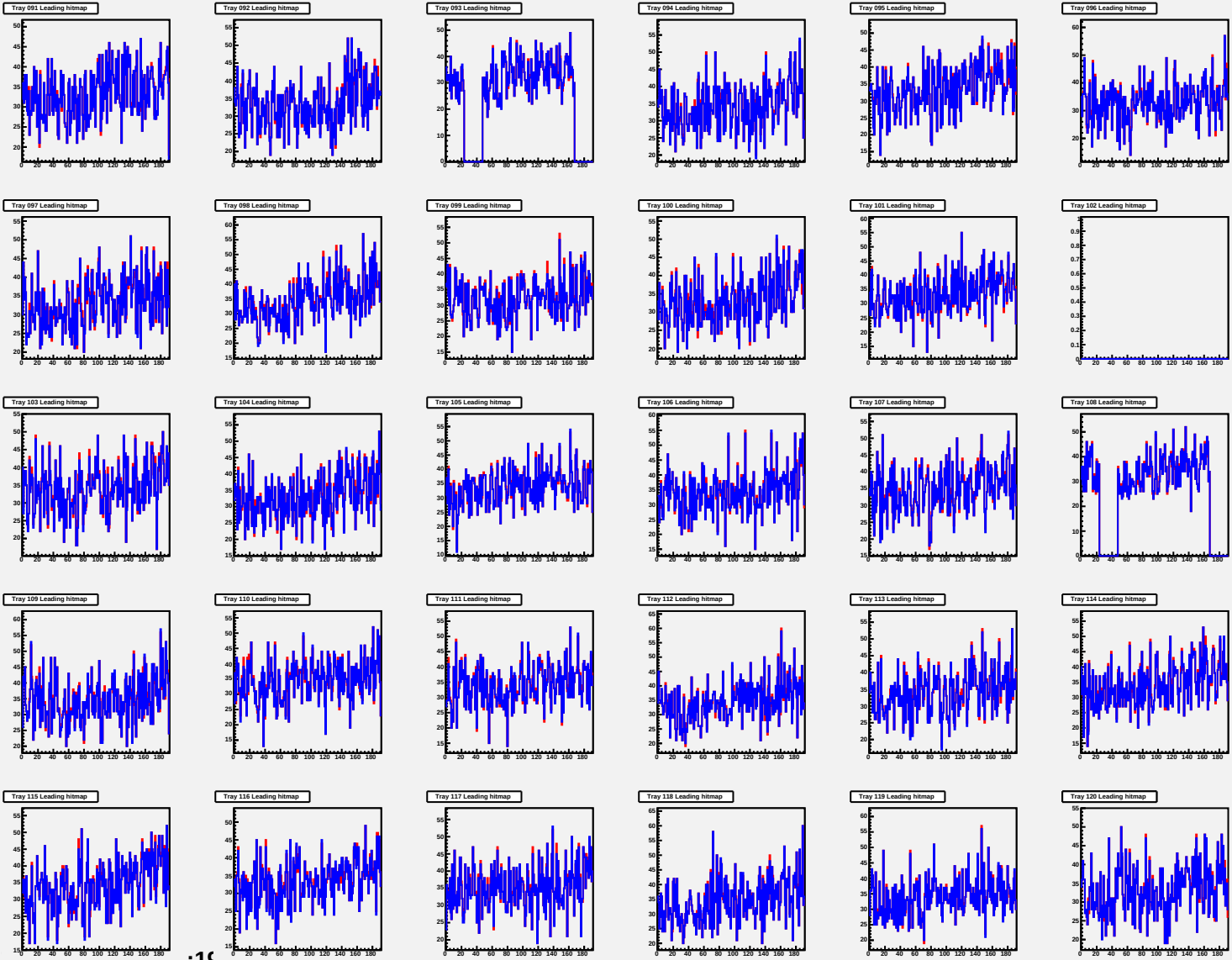
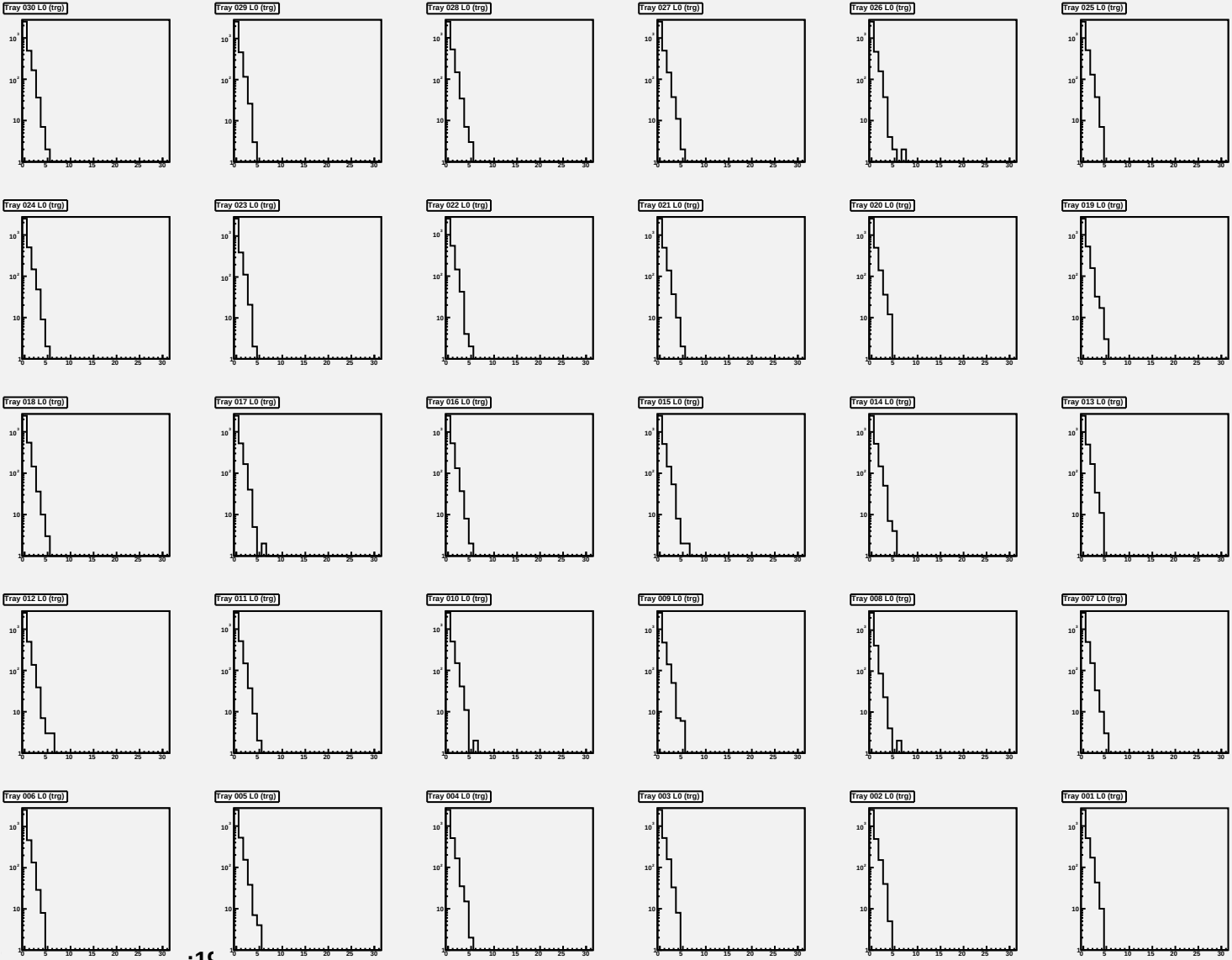
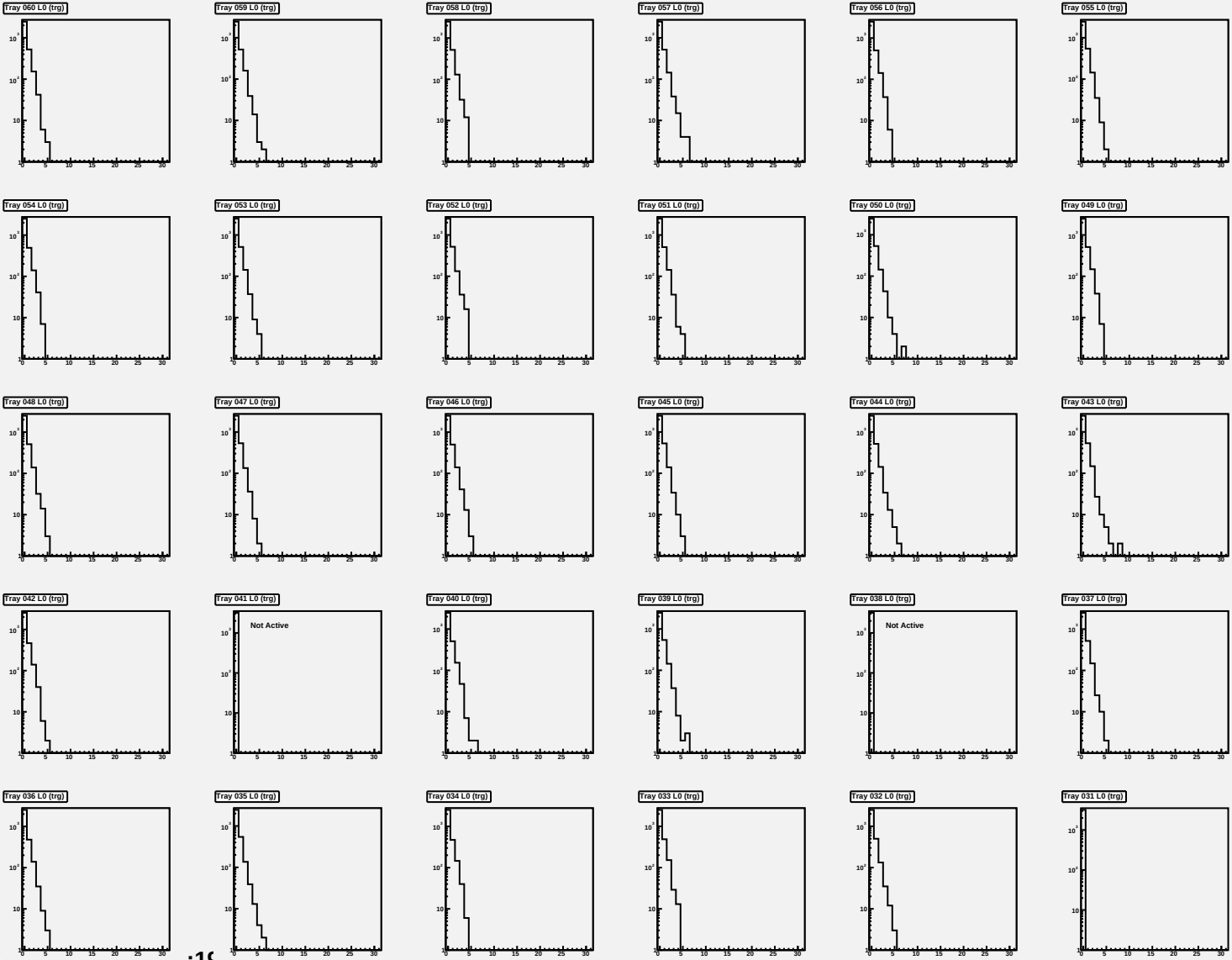
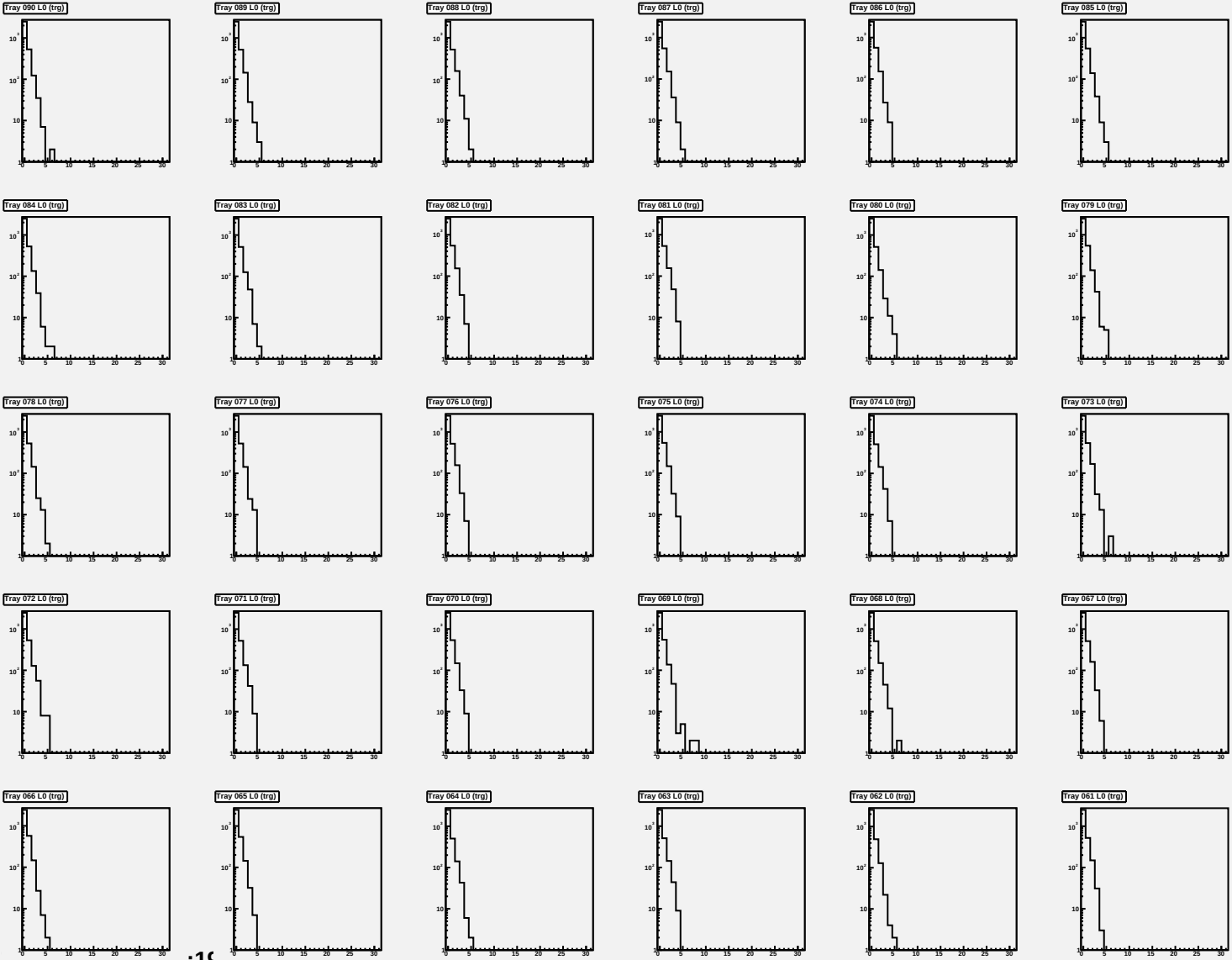
Tray 050 Leading hitmap
Tray 051 Leading hitmap
Tray 052 Leading hitmap
Tray 053 Leading hitmap
Tray 054 Leading hitmap
Tray 055 Leading hitmap
Tray 056 Leading hitmap
Tray 057 Leading hitmap
Tray 058 Leading hitmap
Tray 059 Leading hitmap
Tray 060 Leading hitmap

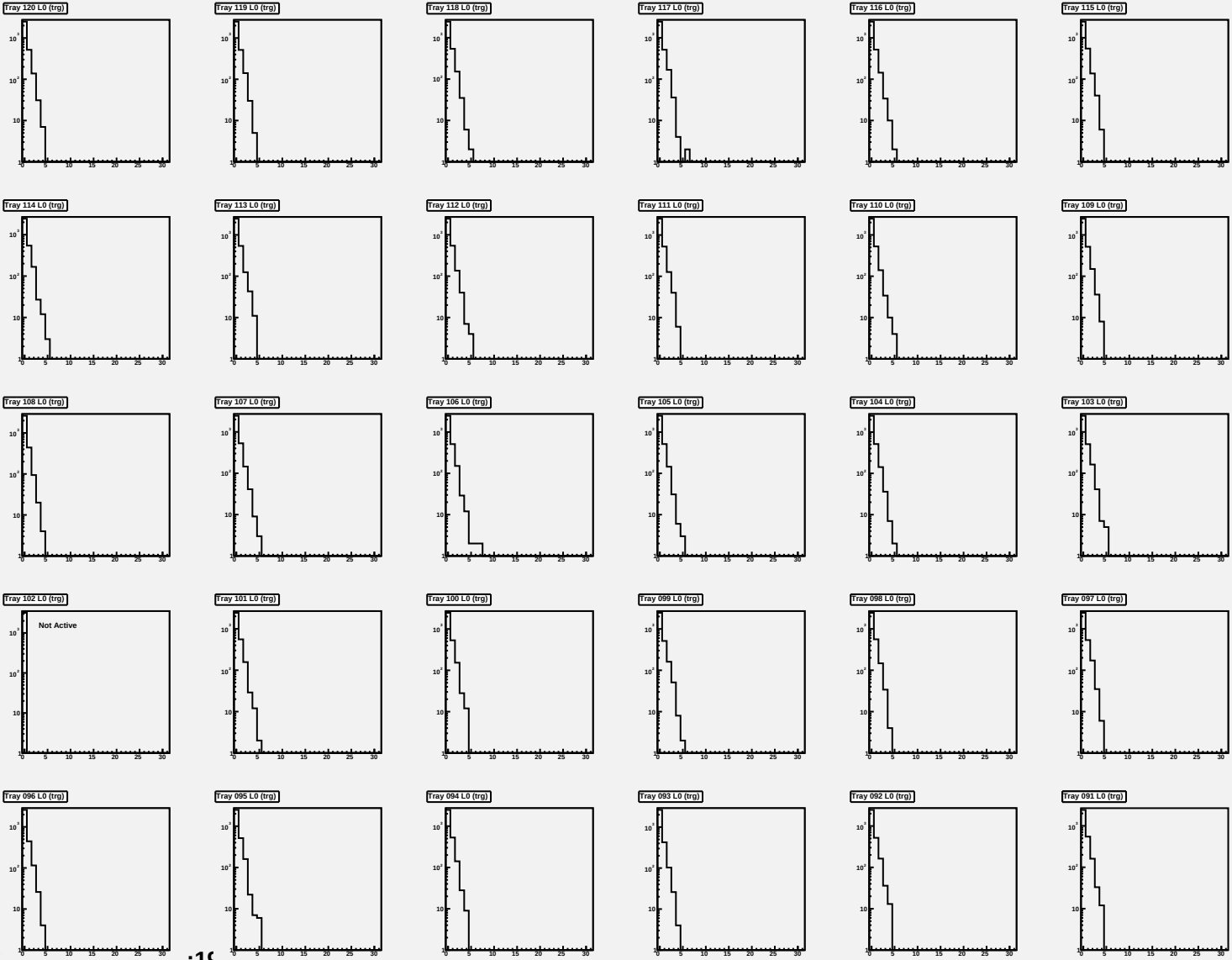

Tray 061 Leading hitmap
Tray 062 Leading hitmap
Tray 063 Leading hitmap
Tray 064 Leading hitmap
Tray 065 Leading hitmap
Tray 066 Leading hitmap
Tray 067 Leading hitmap
Tray 068 Leading hitmap
Tray 069 Leading hitmap
Tray 070 Leading hitmap
Tray 071 Leading hitmap
Tray 072 Leading hitmap
Tray 073 Leading hitmap
Tray 074 Leading hitmap
Tray 075 Leading hitmap
Tray 076 Leading hitmap
Tray 077 Leading hitmap
Tray 078 Leading hitmap
Tray 079 Leading hitmap
Tray 080 Leading hitmap
Tray 081 Leading hitmap
Tray 082 Leading hitmap
Tray 083 Leading hitmap
Tray 084 Leading hitmap
Tray 085 Leading hitmap
Tray 086 Leading hitmap
Tray 087 Leading hitmap
Tray 088 Leading hitmap
Tray 089 Leading hitmap
Tray 090 Leading hitmap

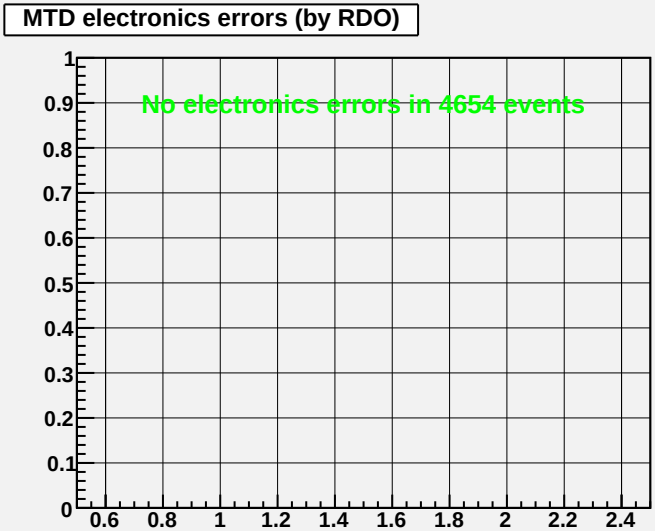

Tray 091 Leading hitmap
Tray 092 Leading hitmap
Tray 093 Leading hitmap
Tray 094 Leading hitmap
Tray 095 Leading hitmap
Tray 096 Leading hitmap
Tray 097 Leading hitmap
Tray 098 Leading hitmap
Tray 099 Leading hitmap
Tray 100 Leading hitmap
Tray 101 Leading hitmap
Tray 102 Leading hitmap
Tray 103 Leading 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
Tray 114 Leading hitmap
Tray 115 Leading hitmap
Tray 116 Leading hitmap
Tray 117 Leading hitmap
Tray 118 Leading hitmap
Tray 119 Leading hitmap
Tray 120 Leading hitmap

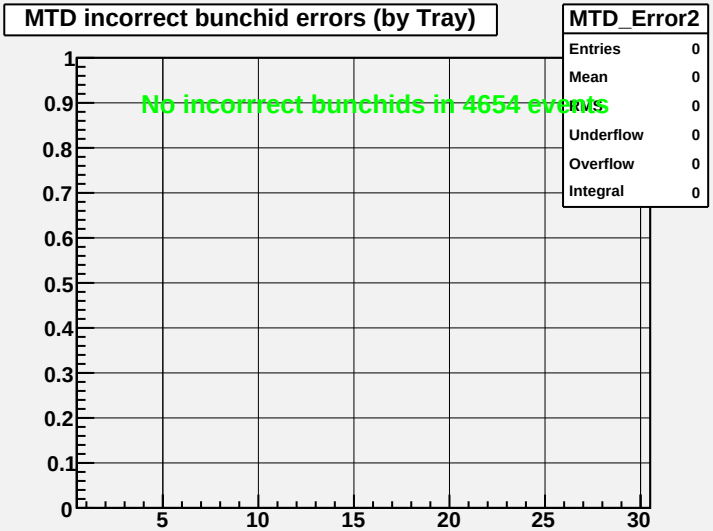

Tray 030 L0 (trg)
Tray 029 L0 (trg)
Tray 028 L0 (trg)
Tray 027 L0 (trg)
Tray 026 L0 (trg)
Tray 025 L0 (trg)
Tray 024 L0 (trg)
Tray 023 L0 (trg)
Tray 022 L0 (trg)
Tray 021 L0 (trg)
Tray 020 L0 (trg)
Tray 019 L0 (trg)
Tray 018 L0 (trg)
Tray 017 L0 (trg)
Tray 016 L0 (trg)
Tray 015 L0 (trg)
Tray 014 L0 (trg)
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)

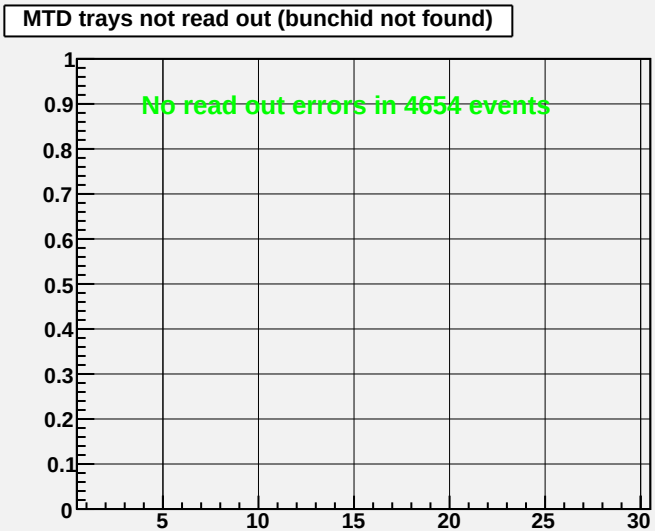

Tray 060 L0 (trg)
Tray 059 L0 (trg)
Tray 058 L0 (trg)
Tray 057 L0 (trg)
Tray 056 L0 (trg)
Tray 055 L0 (trg)
Tray 054 L0 (trg)
Tray 053 L0 (trg)
Tray 052 L0 (trg)
Tray 051 L0 (trg)
Tray 050 L0 (trg)
Tray 049 L0 (trg)
Tray 048 L0 (trg)
Tray 047 L0 (trg)
Tray 046 L0 (trg)
Tray 045 L0 (trg)
Tray 044 L0 (trg)
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)

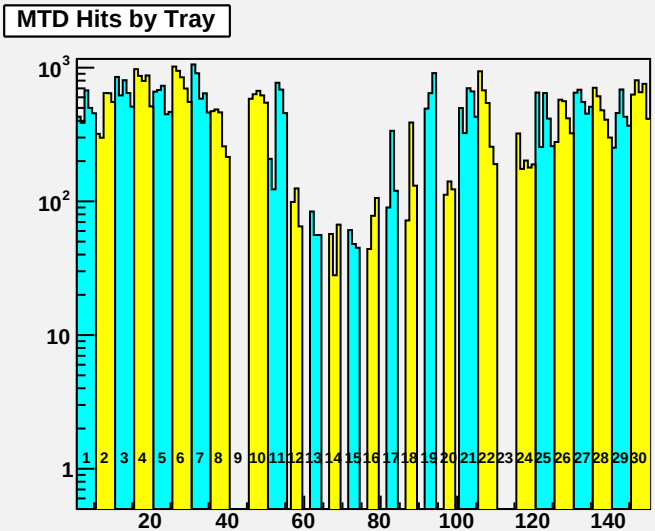

Tray 090 L0 (trg)
Tray 089 L0 (trg)
Tray 088 L0 (trg)
Tray 087 L0 (trg)
Tray 086 L0 (trg)
Tray 085 L0 (trg)
Tray 084 L0 (trg)
Tray 083 L0 (trg)
Tray 082 L0 (trg)
Tray 081 L0 (trg)
Tray 080 L0 (trg)
Tray 079 L0 (trg)
Tray 078 L0 (trg)
Tray 077 L0 (trg)
Tray 076 L0 (trg)
Tray 075 L0 (trg)
Tray 074 L0 (trg)
Tray 073 L0 (trg)
Tray 072 L0 (trg)
Tray 071 L0 (trg)
Tray 070 L0 (trg)
Tray 069 L0 (trg)
Tray 068 L0 (trg)
Tray 067 L0 (trg)
Tray 066 L0 (trg)
Tray 065 L0 (trg)
Tray 064 L0 (trg)
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)
Tray 095 L0 (trg)
Tray 094 L0 (trg)
Tray 093 L0 (trg)
Tray 092 L0 (trg)
Tray 091 L0 (trg)

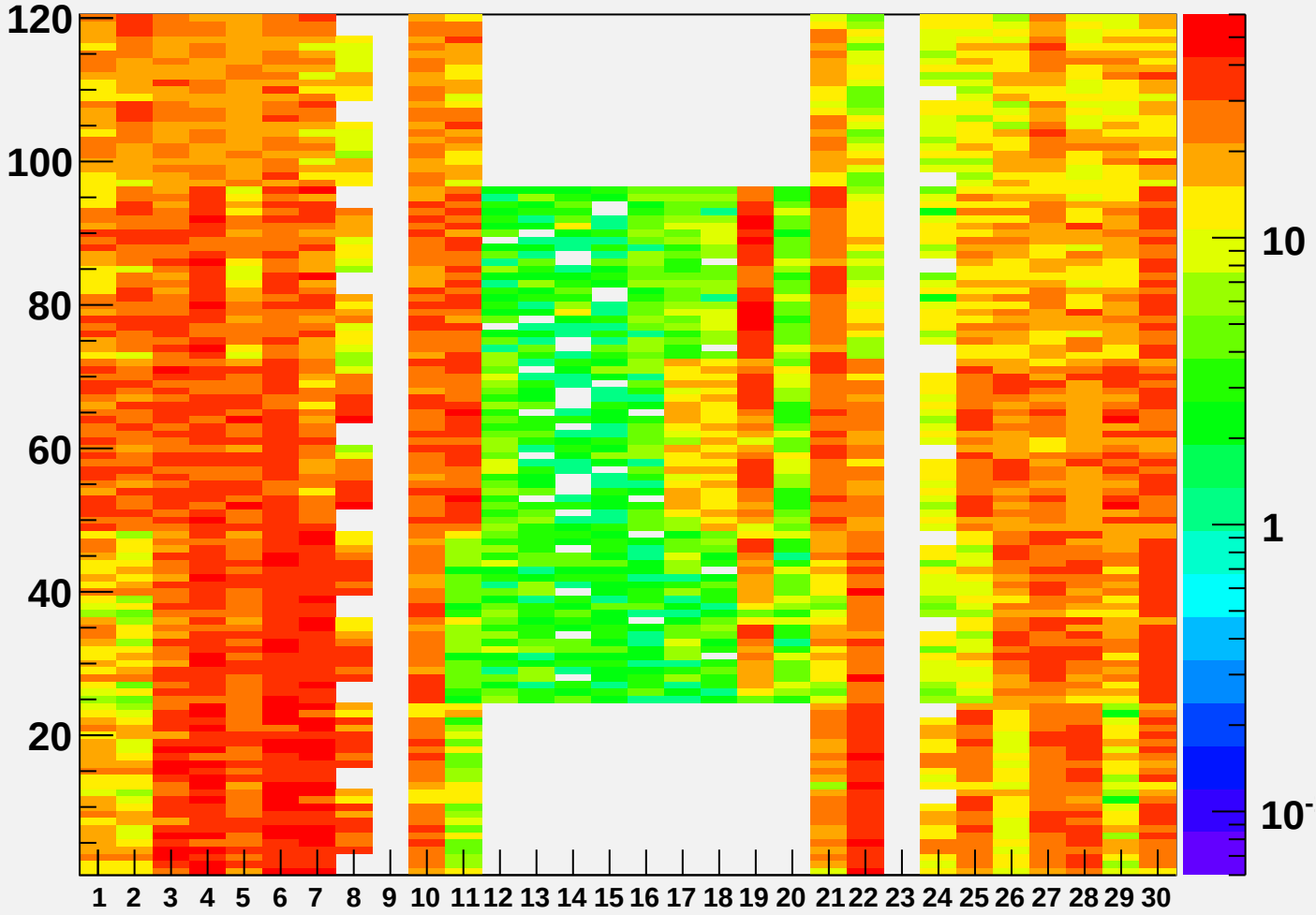

MTD electronics errors (by RDO)
No electronics errors in 4654 events


MTD incorrect bunchid errors (by Tray)
No incorrect bunchids in 4654 events
MTD_Error2
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0

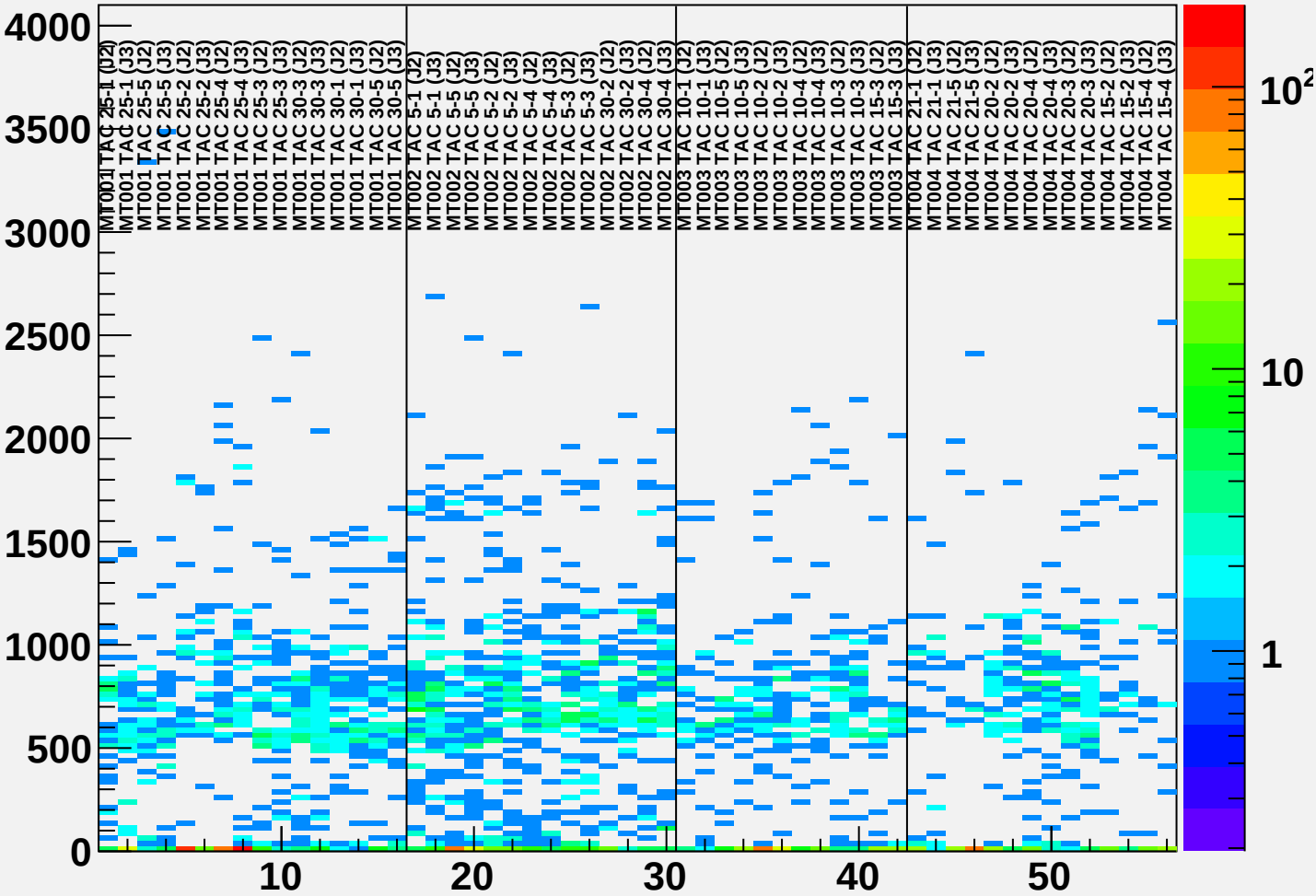

MTD trays not read out (bunchid not found)
No read out errors in 4654 events


MTD Hits by Tray

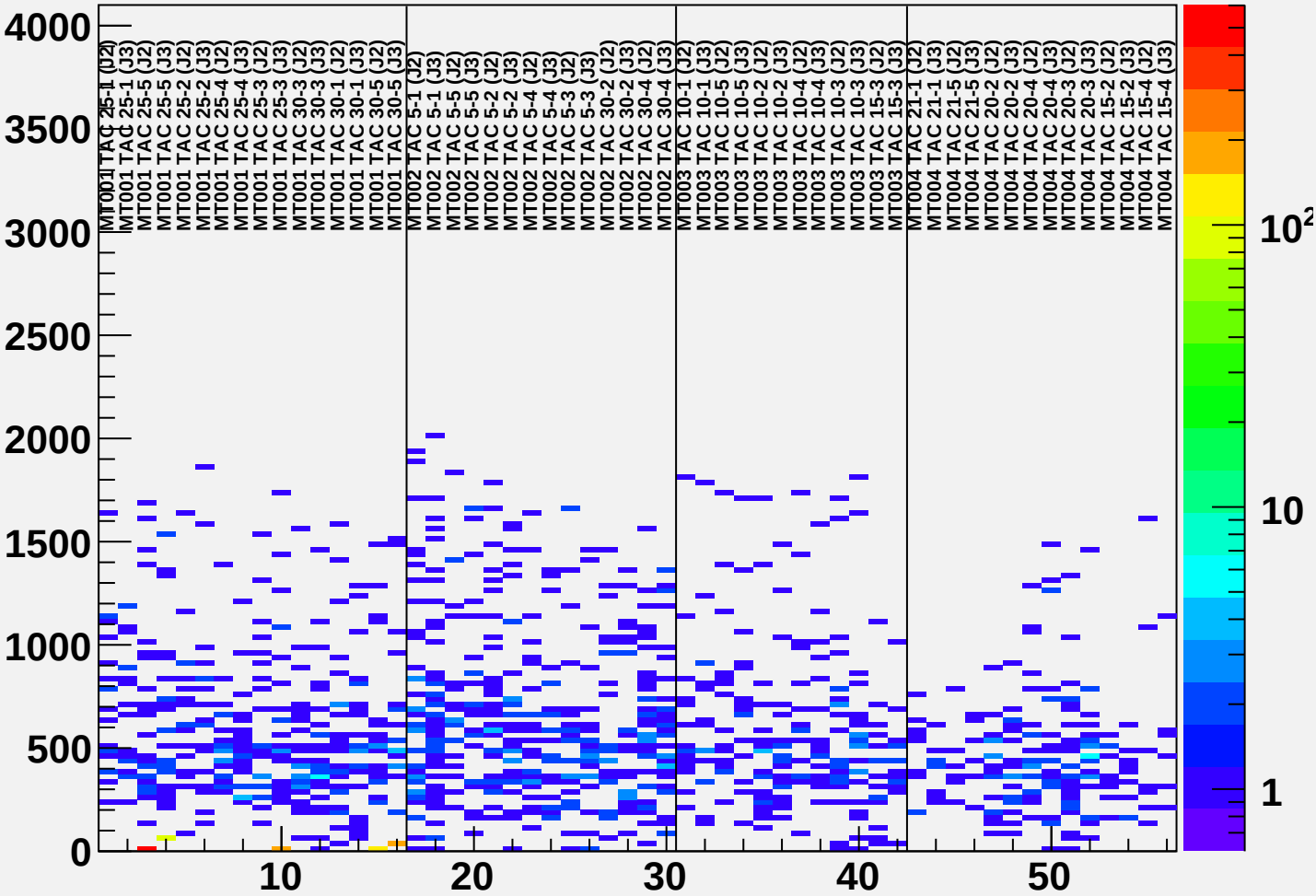
MTD strips vs BL

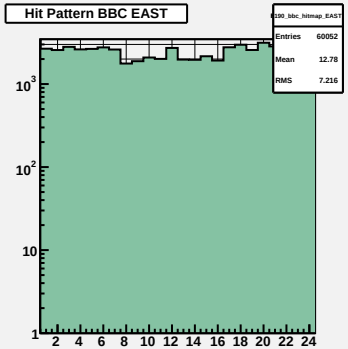


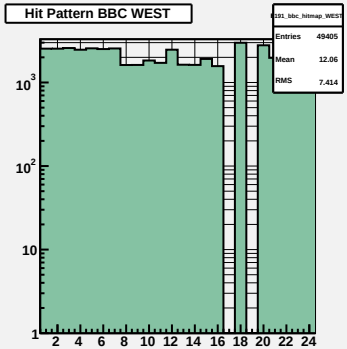
MTD_Trig2D_adc

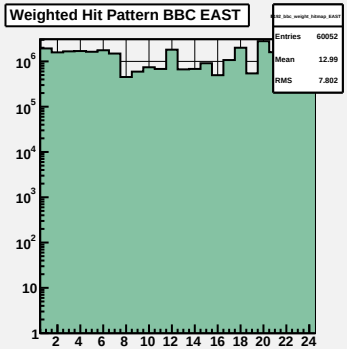


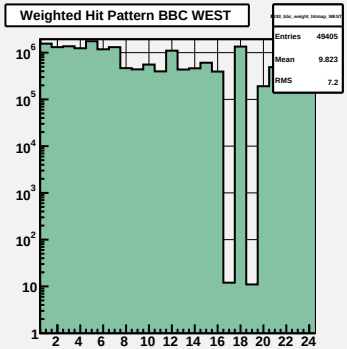
MTD_Trig2D_tac

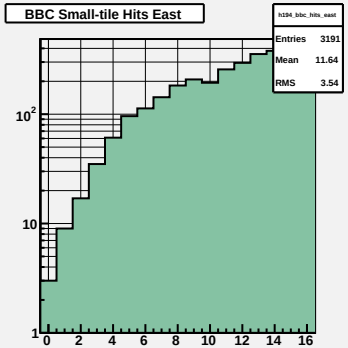


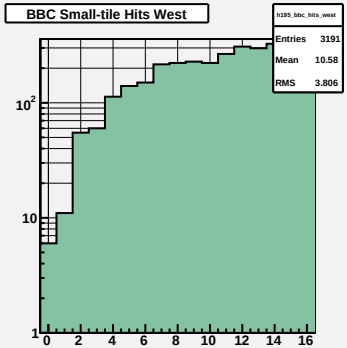

Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 60052
Mean 12.78
RMS 7.216

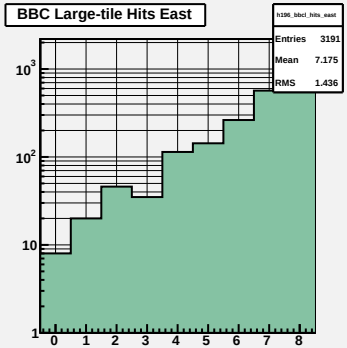

Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 49405
Mean 12.06
RMS 7.414

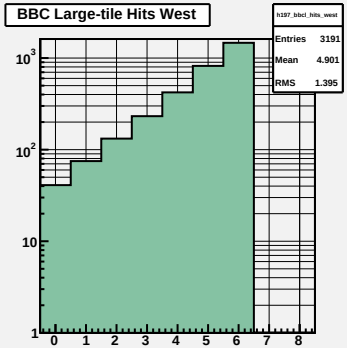

Weighted Hit Pattern BBC EAST
h198_bbc_weight_hitmap_EAST
Entries 60052
Mean 12.99
RMS 7.802

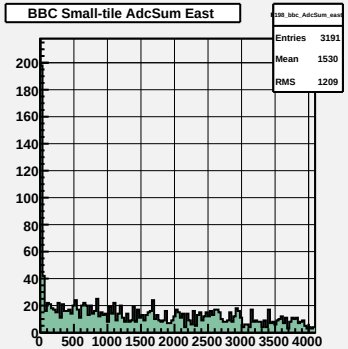

Weighted Hit Pattern BBC WEST
h199_bbc_weight_hitmap_WEST
Entries 49405
Mean 9.823
RMS 7.2

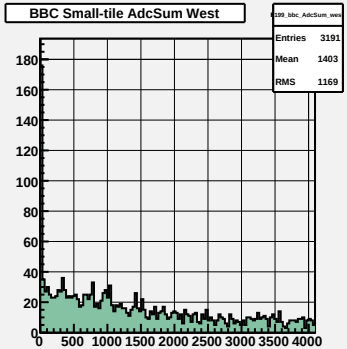

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 3191
Mean 11.64
RMS 3.54

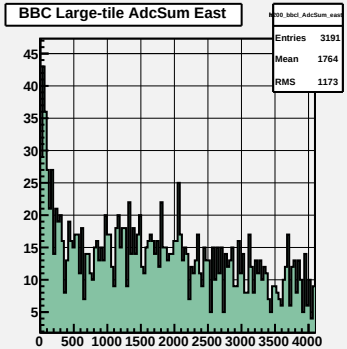

BBC Small-tile Hits West
h195_bbc_hits_west
Entries 3191
Mean 10.58
RMS 3.806

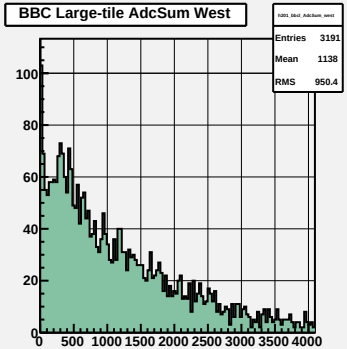

BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 3191
Mean 7.175
RMS 1.436

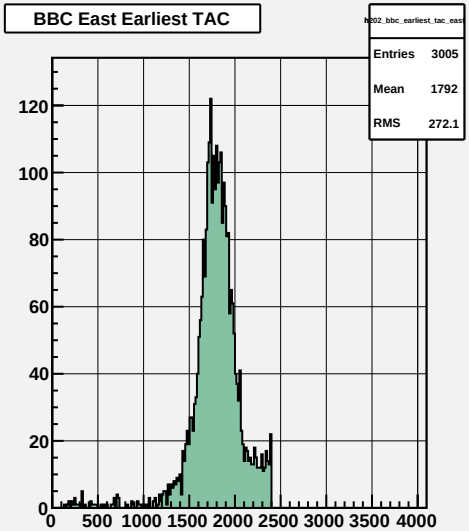

BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 3191
Mean 4.901
RMS 1.395

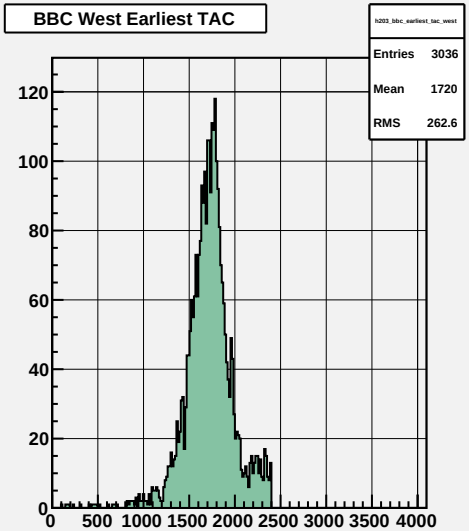

BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 3191
Mean 1530
RMS 1209

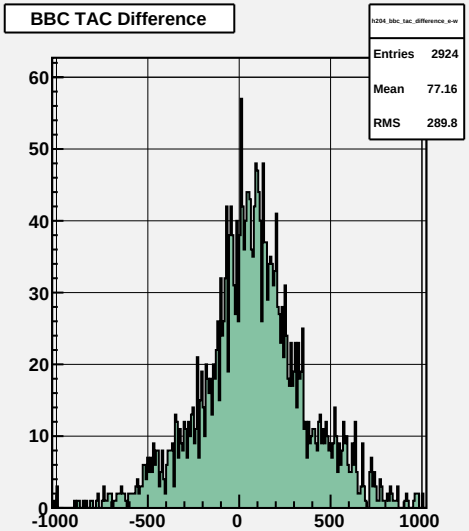

BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 3191
Mean 1403
RMS 1169

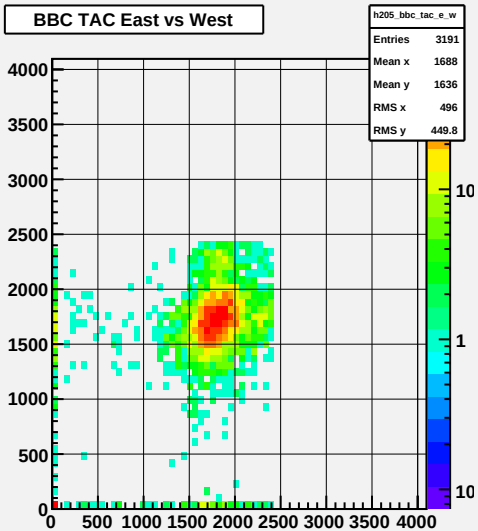

BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 3191
Mean 1764
RMS 1173

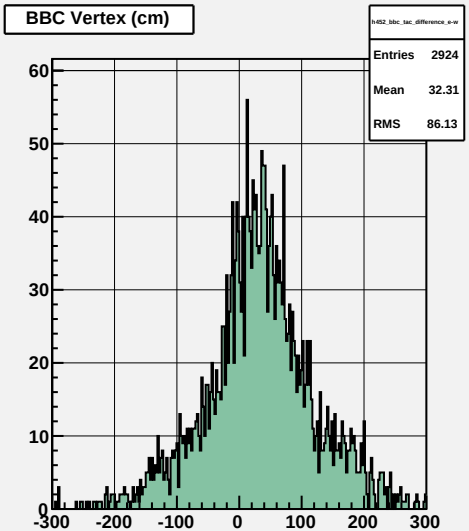

BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 3191
Mean 1138
RMS 950.4

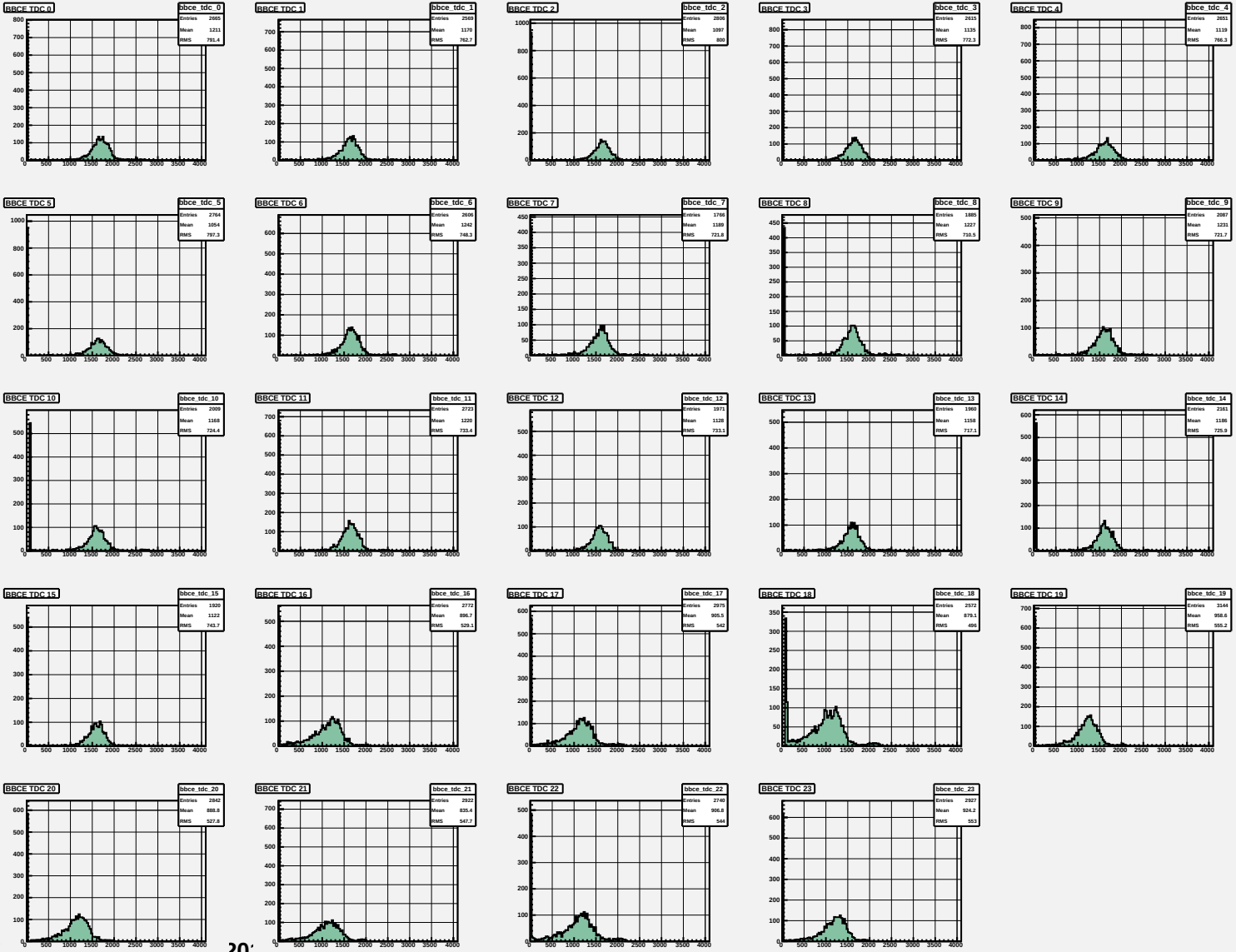

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 3005
Mean 1792
RMS 272.1

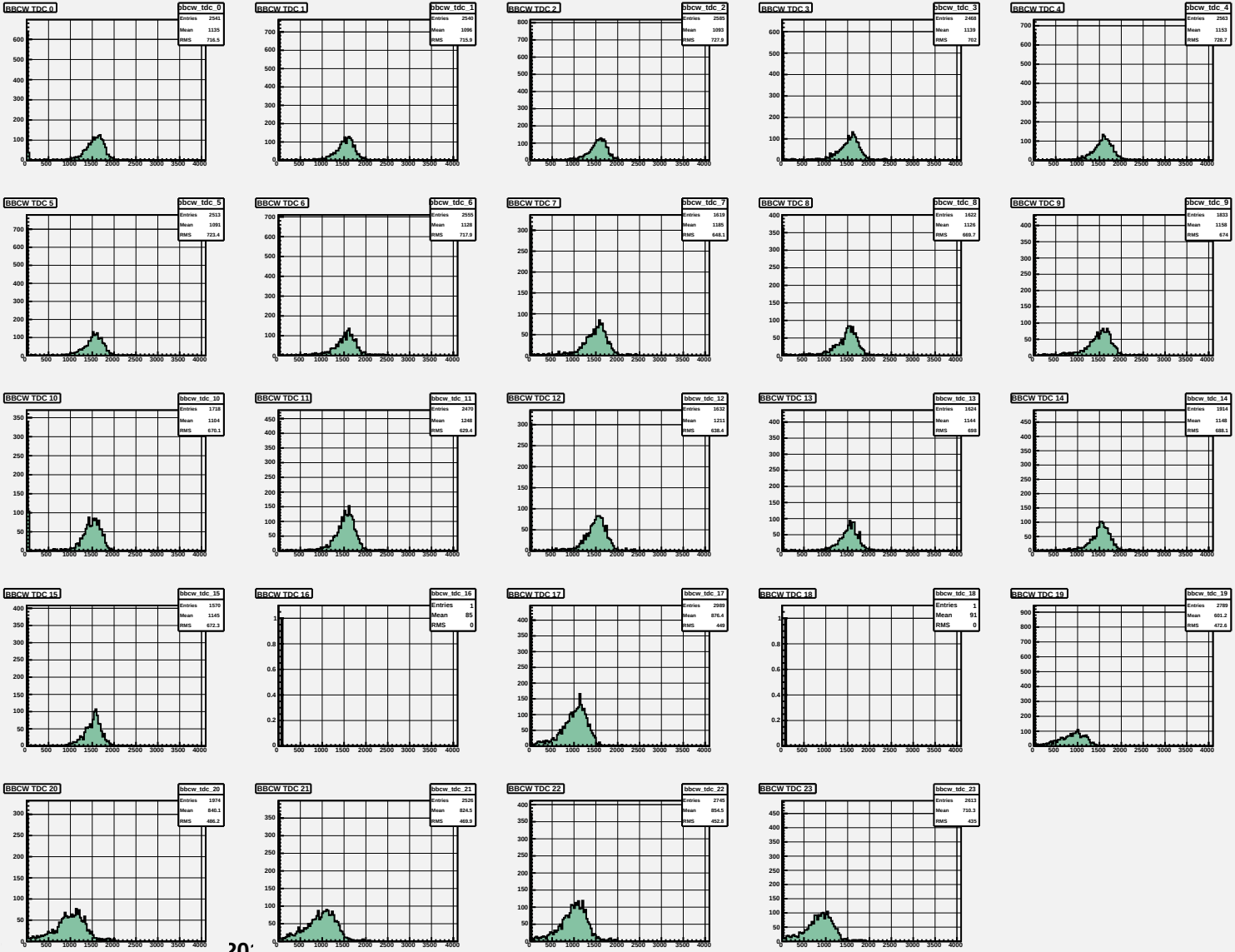

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 3036
Mean 1720
RMS 262.6

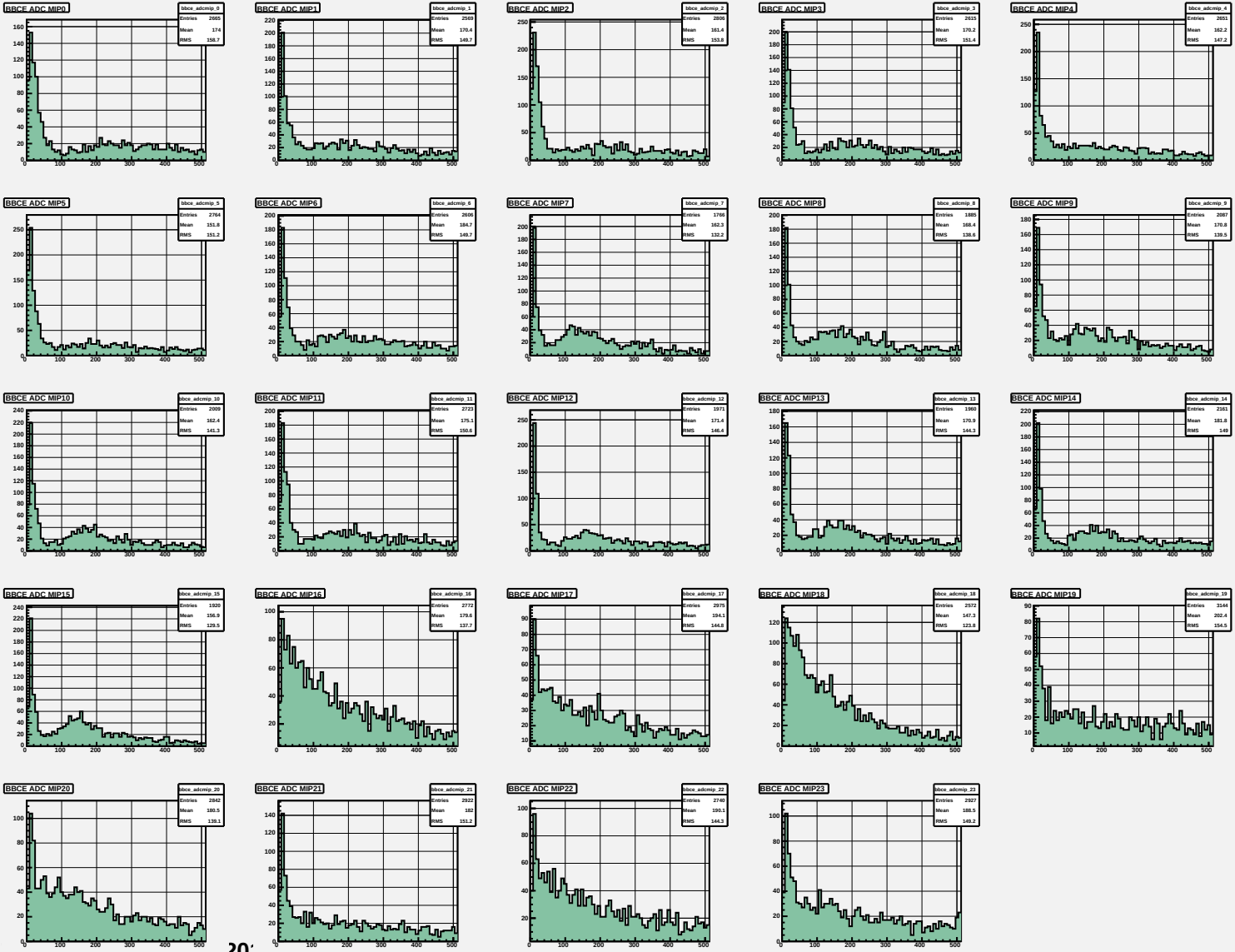

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 2924
Mean 77.16
RMS 289.8

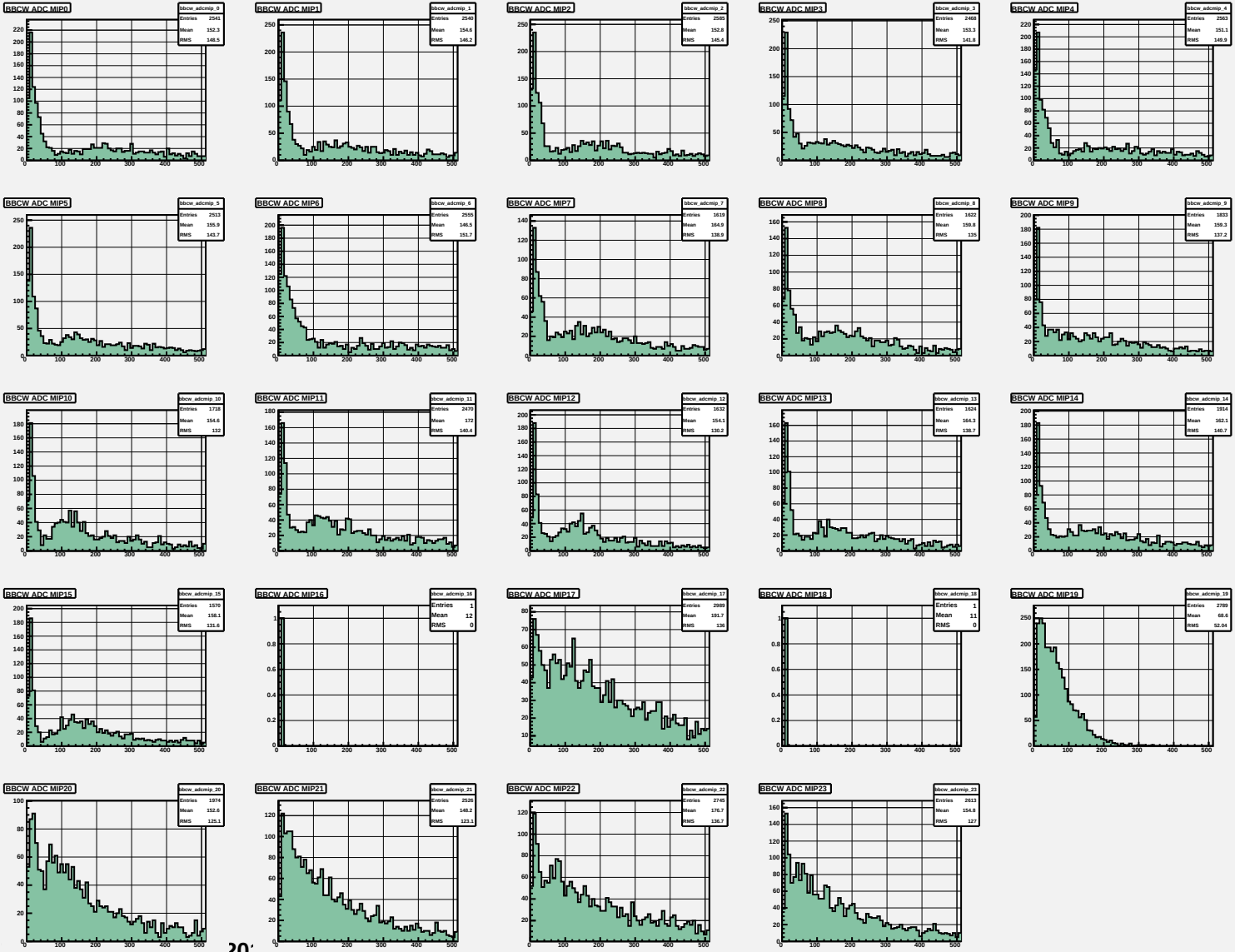

BBC TAC East vs West
h205_bbc_tac_e_w
Entries 3191
Mean x 1688
Mean y 1636
RMS x 496
RMS y 449.8

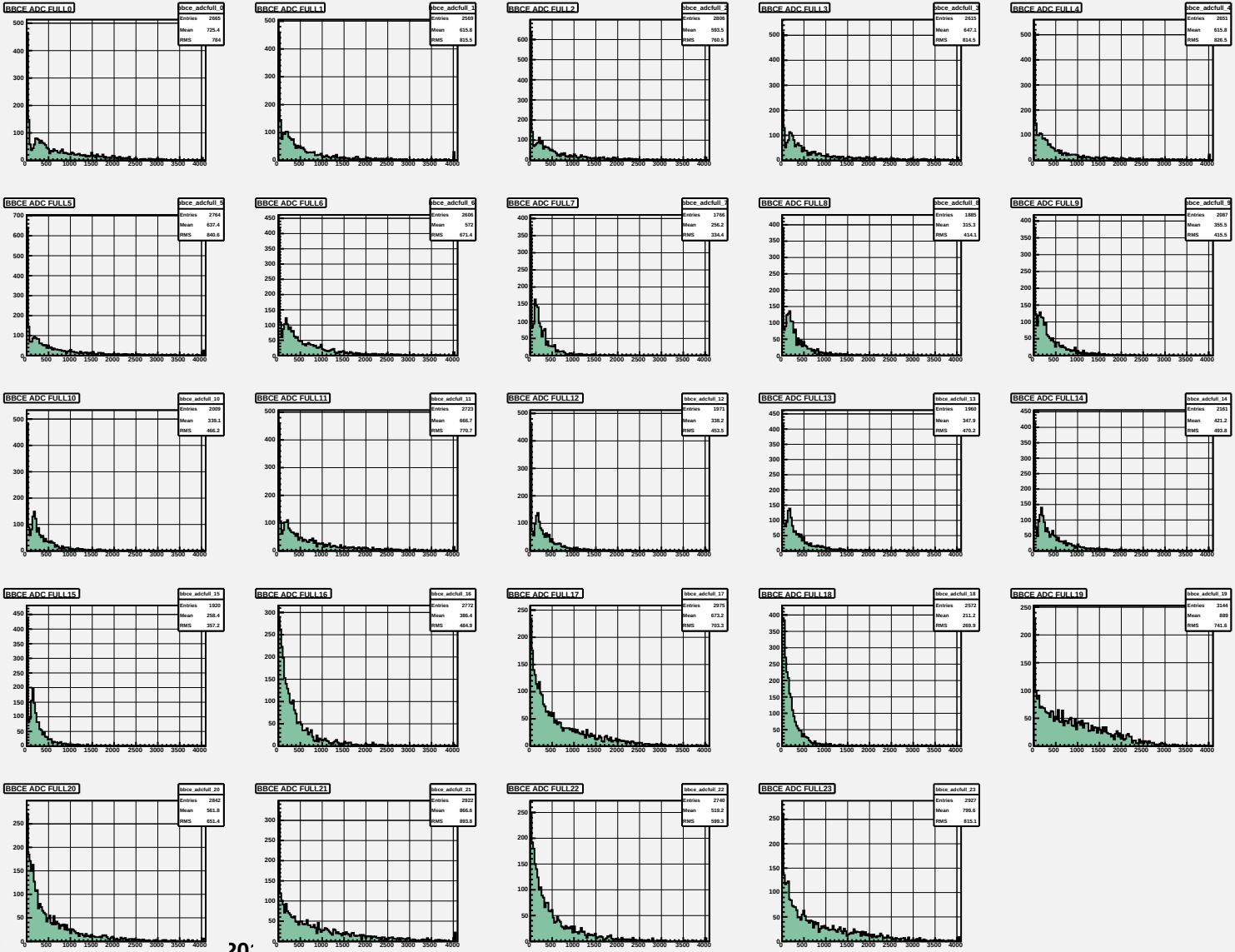

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 2924
Mean 32.31
RMS 86.13

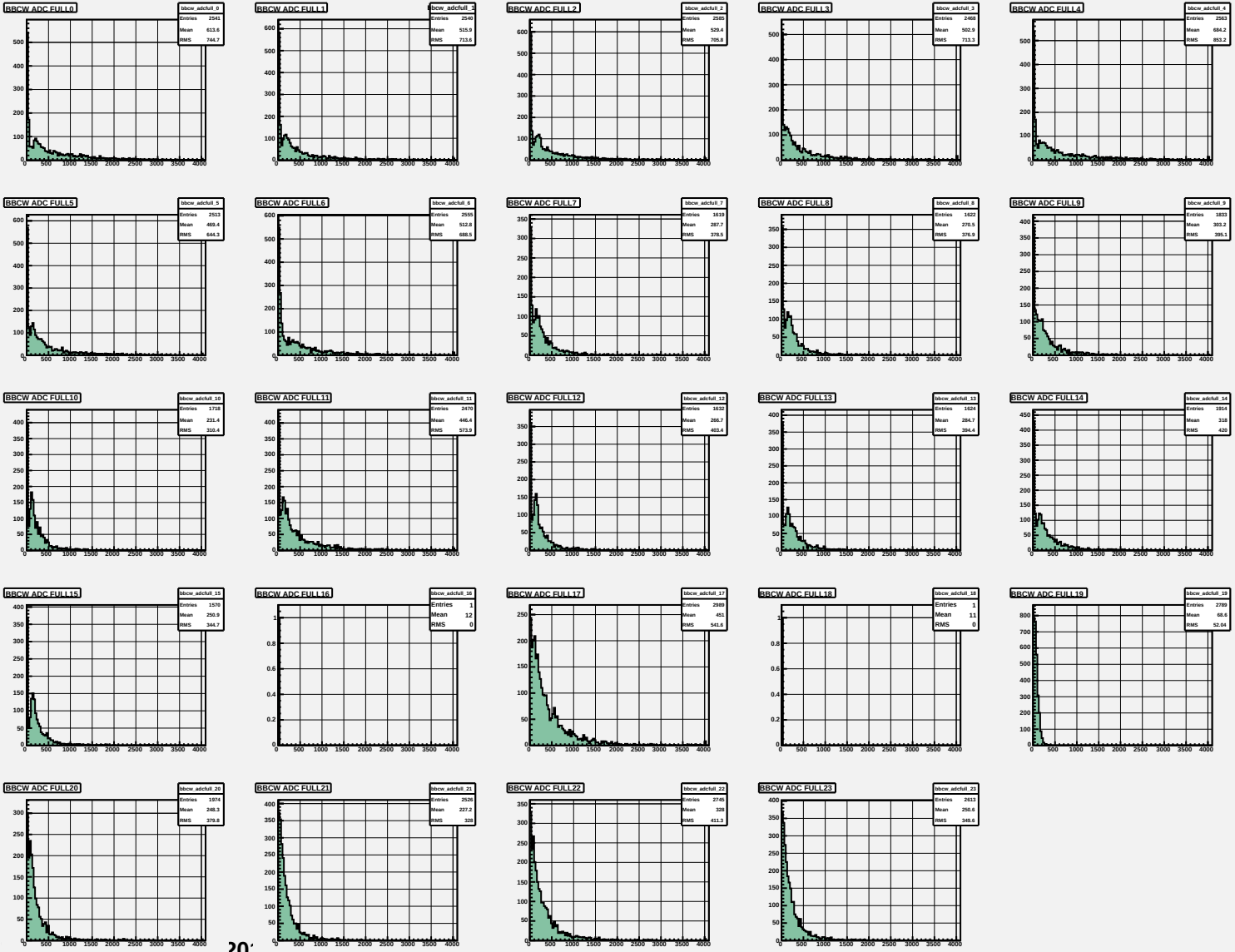

BBCE TDC 0
bbce_tdc_0
Entries 2665
Mean 1211
RMS 791.4
BBCE TDC 1
bbce_tdc_1
Entries 2569
Mean 1170
RMS 752.7
BBCE TDC 2
bbce_tdc_2
Entries 2806
Mean 1097
RMS 800
BBCE TDC 3
bbce_tdc_3
Entries 2615
Mean 1135
RMS 772.5
BBCE TDC 4
bbce_tdc_4
Entries 2651
Mean 1119
RMS 766.2
BBCE TDC 5
bbce_tdc_5
Entries 2764
Mean 1054
RMS 797.3
BBCE TDC 6
bbce_tdc_6
Entries 2608
Mean 1242
RMS 748.3
BBCE TDC 7
bbce_tdc_7
Entries 1766
Mean 1189
RMS 721.8
BBCE TDC 8
bbce_tdc_8
Entries 1885
Mean 1227
RMS 710.5
BBCE TDC 9
bbce_tdc_9
Entries 2087
Mean 1231
RMS 721.7
BBCE TDC 10
bbce_tdc_10
Entries 2009
Mean 1168
RMS 724.4
BBCE TDC 11
bbce_tdc_11
Entries 2723
Mean 1220
RMS 733.4
BBCE TDC 12
bbce_tdc_12
Entries 1971
Mean 1128
RMS 733.1
BBCE TDC 13
bbce_tdc_13
Entries 1960
Mean 1158
RMS 717.1
BBCE TDC 14
bbce_tdc_14
Entries 2161
Mean 1186
RMS 725.9
BBCE TDC 15
bbce_tdc_15
Entries 1920
Mean 1122
RMS 743.7
BBCE TDC 16
bbce_tdc_16
Entries 2772
Mean 896.7
RMS 529.1
BBCE TDC 17
bbce_tdc_17
Entries 2975
Mean 905.5
RMS 542
BBCE TDC 18
bbce_tdc_18
Entries 2572
Mean 879.1
RMS 496
BBCE TDC 19
bbce_tdc_19
Entries 3144
Mean 958.6
RMS 555.2
BBCE TDC 20
bbce_tdc_20
Entries 2842
Mean 888.8
RMS 527.8
BBCE TDC 21
bbce_tdc_21
Entries 2922
Mean 835.4
RMS 547.7
BBCE TDC 22
bbce_tdc_22
Entries 2740
Mean 906.8
RMS 544
BBCE TDC 23
bbce_tdc_23
Entries 2927
Mean 924.2
RMS 553

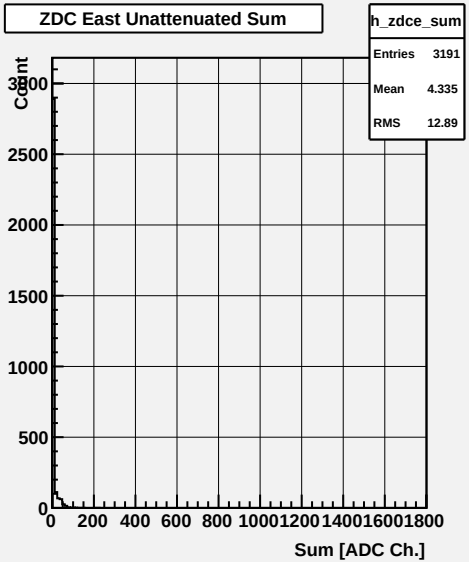

BBCW TDC 0
bbcw_tdc_0
Entries 2541
Mean 1135
RMS 716.5
BBCW TDC 1
bbcw_tdc_1
Entries 2540
Mean 1096
RMS 715.9
BBCW TDC 2
bbcw_tdc_2
Entries 2585
Mean 1093
RMS 727.9
BBCW TDC 3
bbcw_tdc_3
Entries 2468
Mean 1139
RMS 702
BBCW TDC 4
bbcw_tdc_4
Entries 2563
Mean 1153
RMS 728.7
BBCW TDC 5
bbcw_tdc_5
Entries 2513
Mean 1091
RMS 723.4
BBCW TDC 6
bbcw_tdc_6
Entries 2555
Mean 1128
RMS 717.9
BBCW TDC 7
bbcw_tdc_7
Entries 1619
Mean 1185
RMS 648.1
BBCW TDC 8
bbcw_tdc_8
Entries 1622
Mean 1126
RMS 668.7
BBCW TDC 9
bbcw_tdc_9
Entries 1833
Mean 1158
RMS 674
BBCW TDC 10
bbcw_tdc_10
Entries 1718
Mean 1104
RMS 670.1
BBCW TDC 11
bbcw_tdc_11
Entries 2470
Mean 1248
RMS 629.4
BBCW TDC 12
bbcw_tdc_12
Entries 1632
Mean 1211
RMS 638.4
BBCW TDC 13
bbcw_tdc_13
Entries 1624
Mean 1144
RMS 698
BBCW TDC 14
bbcw_tdc_14
Entries 1914
Mean 1148
RMS 688.1
BBCW TDC 15
bbcw_tdc_15
Entries 1570
Mean 1145
RMS 672.3
BBCW TDC 16
bbcw_tdc_16
Entries 1
Mean 85
RMS 0
BBCW TDC 17
bbcw_tdc_17
Entries 2989
Mean 876.4
RMS 449
BBCW TDC 18
bbcw_tdc_18
Entries 1
Mean 91
RMS 0
BBCW TDC 19
bbcw_tdc_19
Entries 2789
Mean 601.2
RMS 472.6
BBCW TDC 20
bbcw_tdc_20
Entries 1974
Mean 840.1
RMS 486.2
BBCW TDC 21
bbcw_tdc_21
Entries 2526
Mean 824.5
RMS 460.9
BBCW TDC 22
bbcw_tdc_22
Entries 2745
Mean 854.5
RMS 452.8
BBCW TDC 23
bbcw_tdc_23
Entries 2613
Mean 710.3
RMS 435

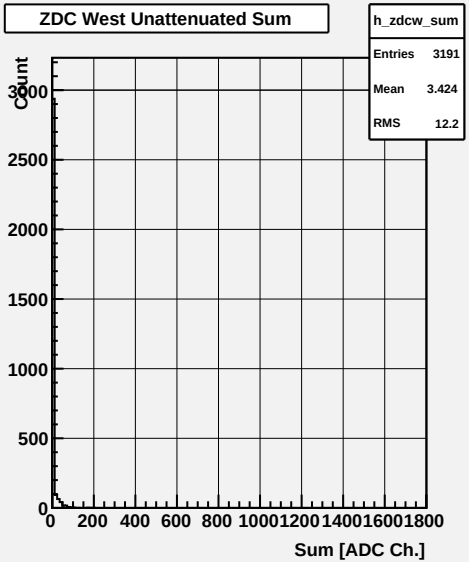

BBCE ADC MIP0
bbce_adcmip_0
Entries 2665
Mean 174
RMS 158.7
BBCE ADC MIP1
bbce_adcmip_1
Entries 2569
Mean 170.4
RMS 149.7
BBCE ADC MIP2
bbce_adcmip_2
Entries 2806
Mean 161.4
RMS 153.8
BBCE ADC MIP3
bbce_adcmip_3
Entries 2615
Mean 170.2
RMS 151.4
BBCE ADC MIP4
bbce_adcmip_4
Entries 2651
Mean 162.2
RMS 147.2
BBCE ADC MIP5
bbce_adcmip_5
Entries 2764
Mean 151.8
RMS 151.2
BBCE ADC MIP6
bbce_adcmip_6
Entries 2636
Mean 184.7
RMS 149.7
BBCE ADC MIP7
bbce_adcmip_7
Entries 1766
Mean 162.3
RMS 132.2
BBCE ADC MIP8
bbce_adcmip_8
Entries 1885
Mean 168.4
RMS 138.6
BBCE ADC MIP9
bbce_adcmip_9
Entries 2087
Mean 170.6
RMS 139.5
BBCE ADC MIP10
bbce_adcmip_10
Entries 2009
Mean 162.4
RMS 141.3
BBCE ADC MIP11
bbce_adcmip_11
Entries 2723
Mean 175.1
RMS 150.6
BBCE ADC MIP12
bbce_adcmip_12
Entries 1971
Mean 171.4
RMS 146.4
BBCE ADC MIP13
bbce_adcmip_13
Entries 1960
Mean 170.9
RMS 144.3
BBCE ADC MIP14
bbce_adcmip_14
Entries 2161
Mean 181.8
RMS 149
BBCE ADC MIP15
bbce_adcmip_15
Entries 1920
Mean 156.9
RMS 129.5
BBCE ADC MIP16
bbce_adcmip_16
Entries 2772
Mean 179.6
RMS 137.7
BBCE ADC MIP17
bbce_adcmip_17
Entries 2975
Mean 194.1
RMS 144.8
BBCE ADC MIP18
bbce_adcmip_18
Entries 2572
Mean 147.3
RMS 123.8
BBCE ADC MIP19
bbce_adcmip_19
Entries 3144
Mean 202.4
RMS 154.5
BBCE ADC MIP20
bbce_adcmip_20
Entries 2842
Mean 180.5
RMS 139.1
BBCE ADC MIP21
bbce_adcmip_21
Entries 2922
Mean 182
RMS 151.2
BBCE ADC MIP22
bbce_adcmip_22
Entries 2740
Mean 190.1
RMS 144.3
BBCE ADC MIP23
bbce_adcmip_23
Entries 2927
Mean 188.5
RMS 149.2

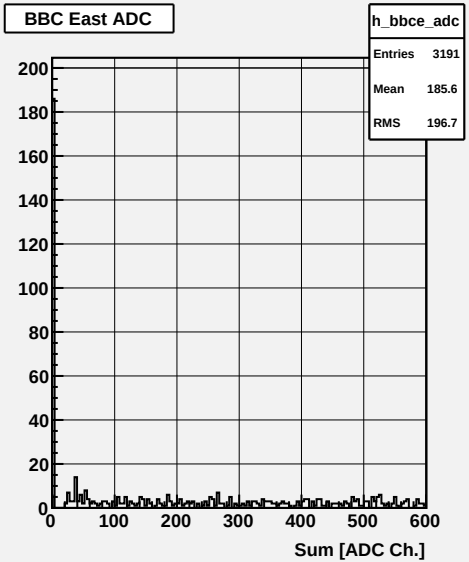

BBCW ADC MIP0
bbcw_adcmip_0
Entries 2541
Mean 152.3
RMS 148.5
BBCW ADC MIP1
bbcw_adcmip_1
Entries 2540
Mean 154.6
RMS 146.2
BBCW ADC MIP2
bbcw_adcmip_2
Entries 2585
Mean 152.8
RMS 145.4
BBCW ADC MIP3
bbcw_adcmip_3
Entries 2468
Mean 153.3
RMS 141.8
BBCW ADC MIP4
bbcw_adcmip_4
Entries 2563
Mean 151.1
RMS 149.3
BBCW ADC MIP5
bbcw_adcmip_5
Entries 2513
Mean 155.9
RMS 143.7
BBCW ADC MIP6
bbcw_adcmip_6
Entries 2555
Mean 146.5
RMS 151.7
BBCW ADC MIP7
bbcw_adcmip_7
Entries 1619
Mean 164.9
RMS 138.9
BBCW ADC MIP8
bbcw_adcmip_8
Entries 1622
Mean 159.8
RMS 135
BBCW ADC MIP9
bbcw_adcmip_9
Entries 1833
Mean 159.3
RMS 137.2
BBCW ADC MIP10
bbcw_adcmip_10
Entries 1718
Mean 154.6
RMS 132
BBCW ADC MIP11
bbcw_adcmip_11
Entries 2470
Mean 172
RMS 146.4
BBCW ADC MIP12
bbcw_adcmip_12
Entries 1632
Mean 154.1
RMS 130.2
BBCW ADC MIP13
bbcw_adcmip_13
Entries 1624
Mean 164.3
RMS 138.7
BBCW ADC MIP14
bbcw_adcmip_14
Entries 1914
Mean 162.1
RMS 140.7
BBCW ADC MIP15
bbcw_adcmip_15
Entries 1570
Mean 158.1
RMS 131.6
BBCW ADC MIP16
bbcw_adcmip_16
Entries 1
Mean 12
RMS 0
BBCW ADC MIP17
bbcw_adcmip_17
Entries 2989
Mean 191.7
RMS 136
BBCW ADC MIP18
bbcw_adcmip_18
Entries 1
Mean 11
RMS 0
BBCW ADC MIP19
bbcw_adcmip_19
Entries 2789
Mean 68.6
RMS 52.04
BBCW ADC MIP20
bbcw_adcmip_20
Entries 1974
Mean 152.6
RMS 125.1
BBCW ADC MIP21
bbcw_adcmip_21
Entries 2526
Mean 148.2
RMS 123.1
BBCW ADC MIP22
bbcw_adcmip_22
Entries 2745
Mean 176.7
RMS 136.7
BBCW ADC MIP23
bbcw_adcmip_23
Entries 2613
Mean 154.8
RMS 127

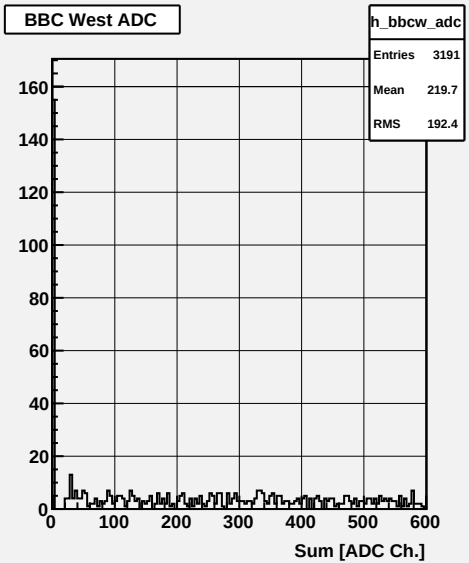

BBCE ADC FULL0
bbce_adcfull_0
Entries 2665
Mean 725.4
RMS 784
BBCE ADC FULL1
bbce_adcfull_1
Entries 2569
Mean 615.8
RMS 815.5
BBCE ADC FULL2
bbce_adcfull_2
Entries 2806
Mean 593.5
RMS 760.5
BBCE ADC FULL3
bbce_adcfull_3
Entries 2615
Mean 647.1
RMS 814.5
BBCE ADC FULL4
bbce_adcfull_4
Entries 2651
Mean 615.8
RMS 826.3
BBCE ADC FULL5
bbce_adcfull_5
Entries 2764
Mean 627.4
RMS 840.6
BBCE ADC FULL6
bbce_adcfull_6
Entries 2606
Mean 572
RMS 671.4
BBCE ADC FULL7
bbce_adcfull_7
Entries 1766
Mean 256.2
RMS 334.4
BBCE ADC FULL8
bbce_adcfull_8
Entries 1885
Mean 315.3
RMS 414.1
BBCE ADC FULL9
bbce_adcfull_9
Entries 2087
Mean 355.5
RMS 415.5
BBCE ADC FULL10
bbce_adcfull_10
Entries 2009
Mean 339.1
RMS 466.2
BBCE ADC FULL11
bbce_adcfull_11
Entries 2723
Mean 666.7
RMS 770.7
BBCE ADC FULL12
bbce_adcfull_12
Entries 1971
Mean 338.2
RMS 453.5
BBCE ADC FULL13
bbce_adcfull_13
Entries 1960
Mean 347.9
RMS 470.2
BBCE ADC FULL14
bbce_adcfull_14
Entries 2161
Mean 421.2
RMS 493.8
BBCE ADC FULL15
bbce_adcfull_15
Entries 1920
Mean 258.4
RMS 357.2
BBCE ADC FULL16
bbce_adcfull_16
Entries 2772
Mean 386.4
RMS 484.9
BBCE ADC FULL17
bbce_adcfull_17
Entries 2975
Mean 673.2
RMS 703.3
BBCE ADC FULL18
bbce_adcfull_18
Entries 2572
Mean 211.2
RMS 269.9
BBCE ADC FULL19
bbce_adcfull_19
Entries 3144
Mean 889
RMS 741.6
BBCE ADC FULL20
bbce_adcfull_20
Entries 2842
Mean 561.8
RMS 651.4
BBCE ADC FULL21
bbce_adcfull_21
Entries 2922
Mean 866.6
RMS 893.8
BBCE ADC FULL22
bbce_adcfull_22
Entries 2740
Mean 519.2
RMS 599.3
BBCE ADC FULL23
bbce_adcfull_23
Entries 2927
Mean 799.6
RMS 815.1

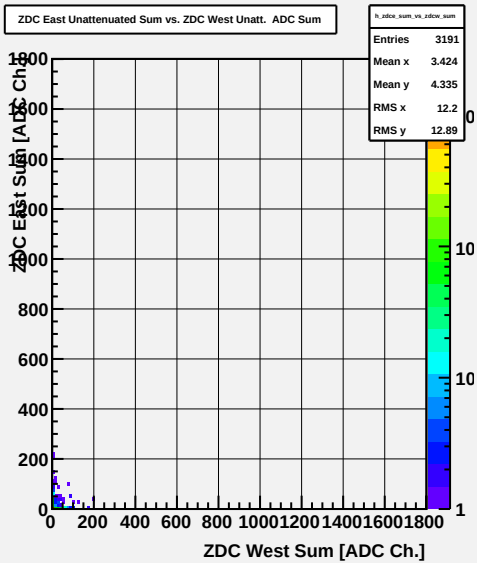

BBCW ADC FULL0
bbcw_adcfull_0
Entries 2541
Mean 613.6
RMS 744.7
BBCW ADC FULL1
bbcw_adcfull_1
Entries 2540
Mean 515.9
RMS 713.6
BBCW ADC FULL2
bbcw_adcfull_2
Entries 2585
Mean 529.4
RMS 705.8
BBCW ADC FULL3
bbcw_adcfull_3
Entries 2468
Mean 502.9
RMS 713.3
BBCW ADC FULL4
bbcw_adcfull_4
Entries 2563
Mean 684.2
RMS 853.2
BBCW ADC FULL5
bbcw_adcfull_5
Entries 2513
Mean 469.4
RMS 644.3
BBCW ADC FULL6
bbcw_adcfull_6
Entries 2555
Mean 512.8
RMS 688.5
BBCW ADC FULL7
bbcw_adcfull_7
Entries 1619
Mean 287.7
RMS 378.5
BBCW ADC FULL8
bbcw_adcfull_8
Entries 1622
Mean 270.5
RMS 376.9
BBCW ADC FULL9
bbcw_adcfull_9
Entries 1833
Mean 303.2
RMS 395.1
BBCW ADC FULL10
bbcw_adcfull_10
Entries 1718
Mean 231.4
RMS 310.4
BBCW ADC FULL11
bbcw_adcfull_11
Entries 2470
Mean 446.4
RMS 573.9
BBCW ADC FULL12
bbcw_adcfull_12
Entries 1632
Mean 266.7
RMS 403.4
BBCW ADC FULL13
bbcw_adcfull_13
Entries 1624
Mean 284.7
RMS 394.4
BBCW ADC FULL14
bbcw_adcfull_14
Entries 1914
Mean 318
RMS 420
BBCW ADC FULL15
bbcw_adcfull_15
Entries 1570
Mean 250.9
RMS 344.7
BBCW ADC FULL16
bbcw_adcfull_16
Entries 1
Mean 12
RMS 0
BBCW ADC FULL17
bbcw_adcfull_17
Entries 2989
Mean 451
RMS 541.6
BBCW ADC FULL18
bbcw_adcfull_18
Entries 1
Mean 11
RMS 0
BBCW ADC FULL19
bbcw_adcfull_19
Entries 2789
Mean 68.6
RMS 52.04
BBCW ADC FULL20
bbcw_adcfull_20
Entries 1974
Mean 248.3
RMS 379.8
BBCW ADC FULL21
bbcw_adcfull_21
Entries 2526
Mean 227.2
RMS 328
BBCW ADC FULL22
bbcw_adcfull_22
Entries 2745
Mean 328
RMS 411.3
BBCW ADC FULL23
bbcw_adcfull_23
Entries 2613
Mean 250.6
RMS 348.6

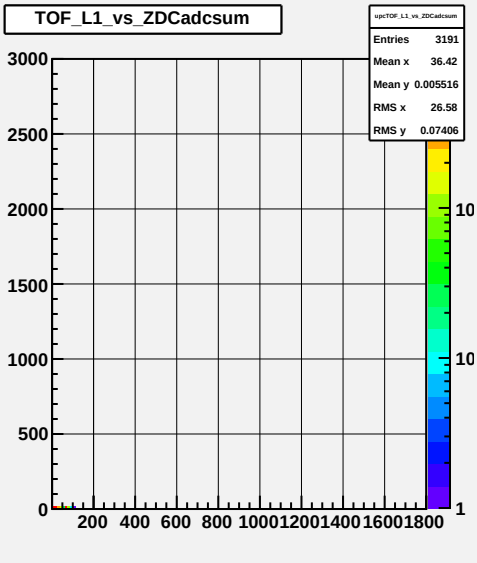

ZDC East Unattenuated Sum
h_zdce_sum
Entries 3191
Mean 4.335
RMS 12.89
Count
Sum [ADC Ch.]

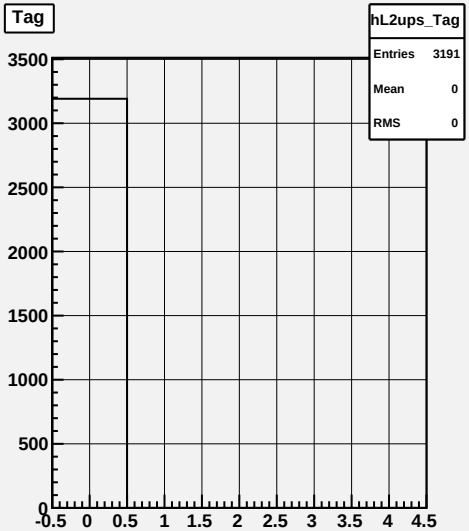

ZDC West Unattenuated Sum
h_zdcw_sum
Entries 3191
Mean 3.424
RMS 12.2
Count
Sum [ADC Ch.]

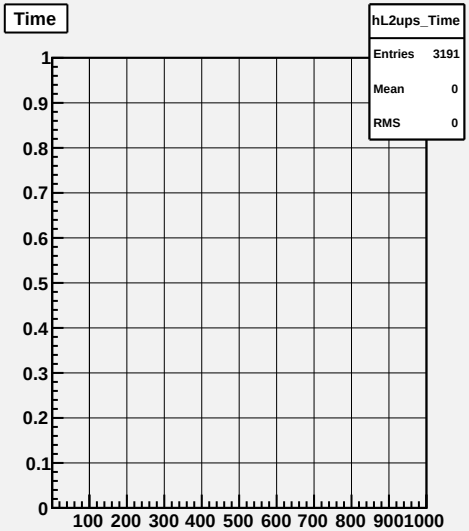

BBC East ADC
h_bbce_adc
Entries 3191
Mean 185.6
RMS 196.7
Sum [ADC Ch.]

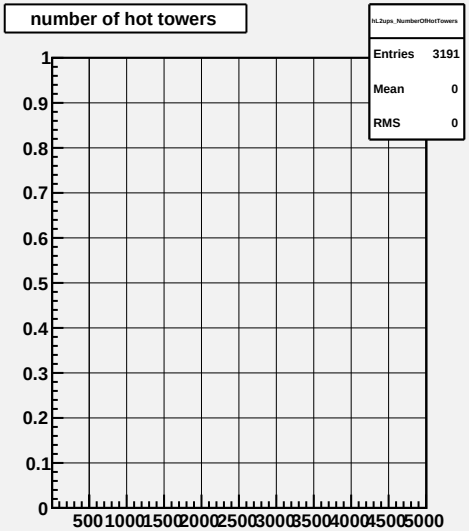

BBC West ADC
h_bbcw_adc
Entries 3191
Mean 219.7
RMS 192.4
Sum [ADC Ch.]

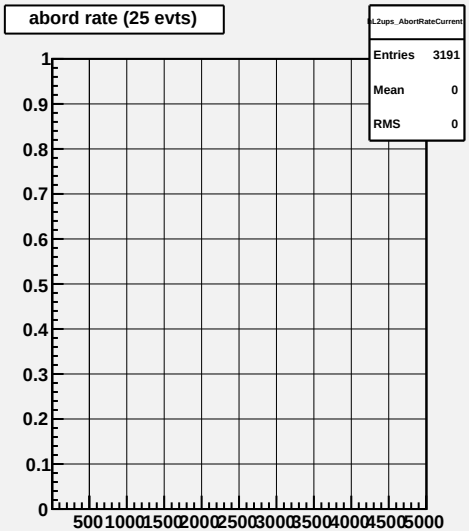

ZDC East Unattenuated Sum vs. ZDC West Unatt. ADC Sum
h_zdce_sum_vs_zdcw_sum
Entries 3191
Mean x 3.424
Mean y 4.335
RMS x 12.2
RMS y 12.89
ZDC East Sum [ADC Ch.]
ZDC West Sum [ADC Ch.]

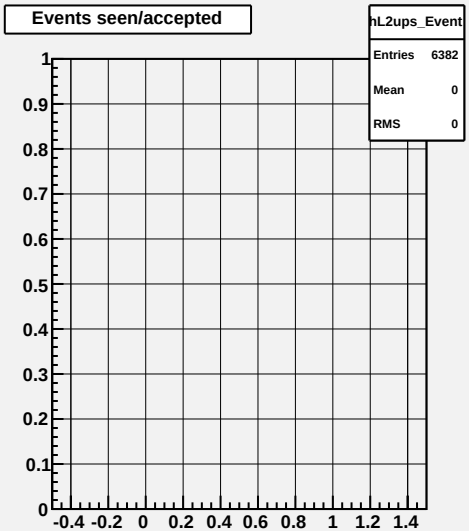

TOF_L1_vs_ZDCadcsum
upcTOF_L1_vs_ZDCadcsum
Entries 3191
Mean x 36.42
Mean y 0.005516
RMS x 26.58
RMS y 0.07406

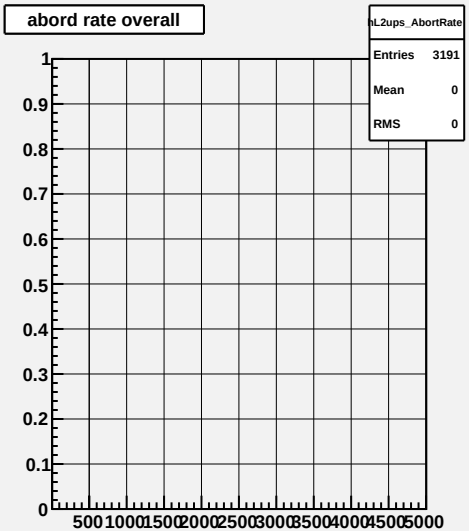

Tag
hL2ups_Tag
Entries 3191
Mean 0
RMS 0
3500
3000
2500
2000
1500
1000
500
0
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5

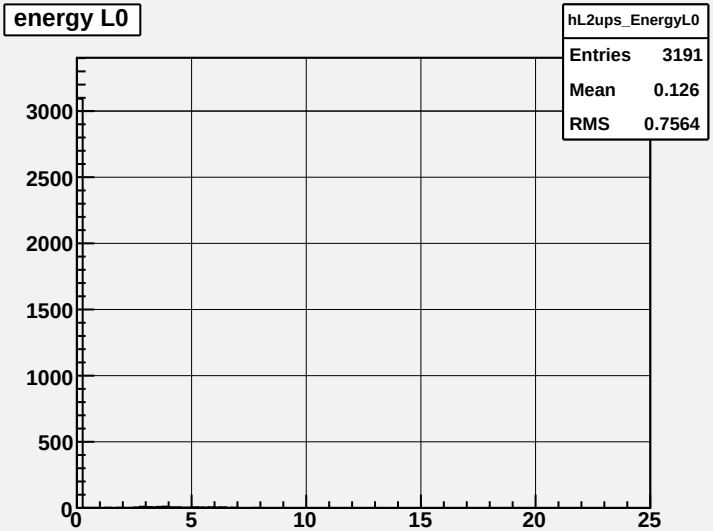

Time
hL2ups_Time
Entries 3191
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100 200 300 400 500 600 700 800 900 1000

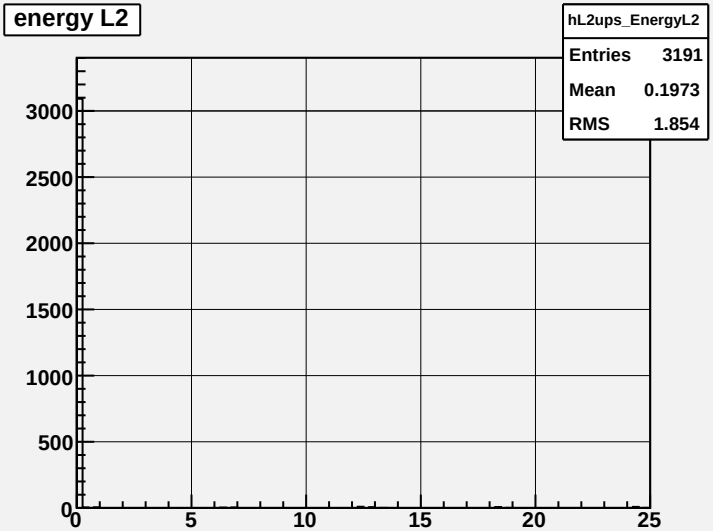

number of hot towers
hL2ups_NumberOfHotTowers
Entries 3191
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

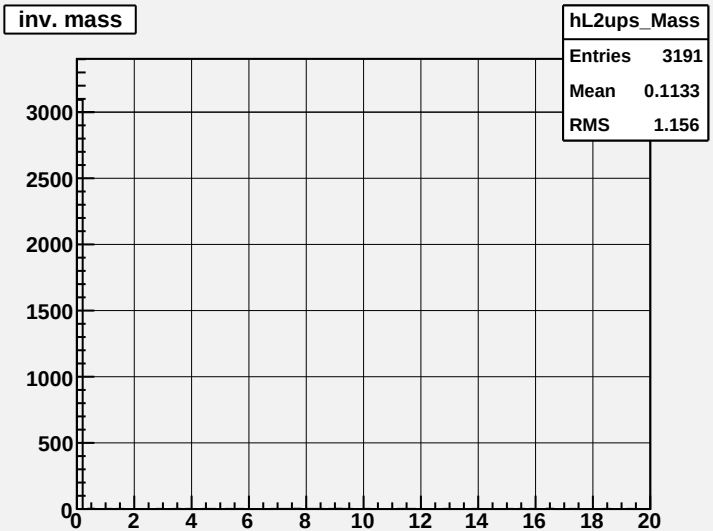

abord rate (25 evts)
hL2ups_AbortRateCurrent
Entries 3191
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

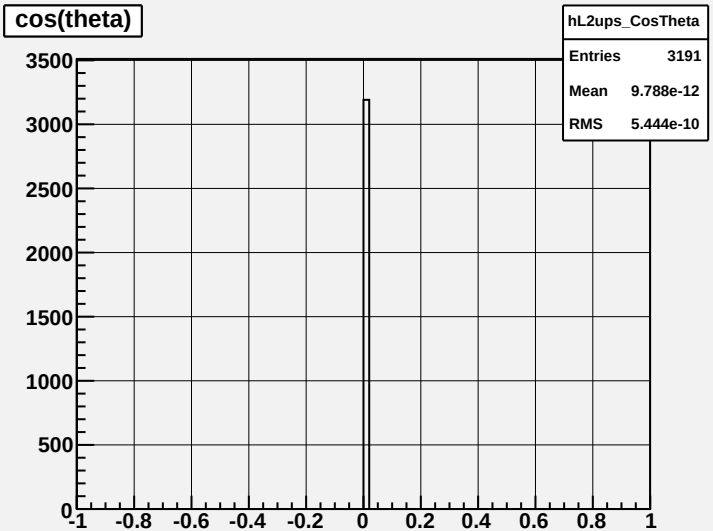

Events seen/accepted
hL2ups_Event
Entries 6382
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.4 -0.2 0 0.2 0.4 0.6 0.8 1 1.2 1.4

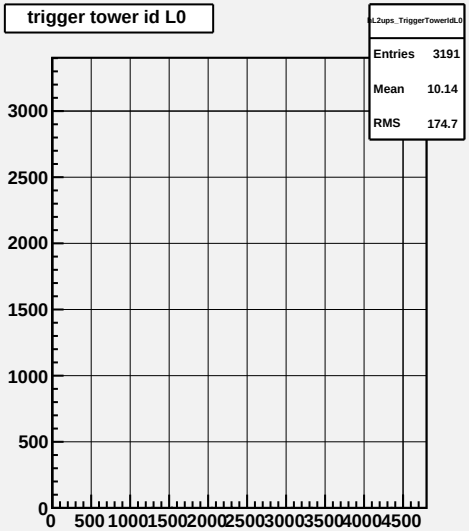

abord rate overall
hL2ups_AbortRate
Entries 3191
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

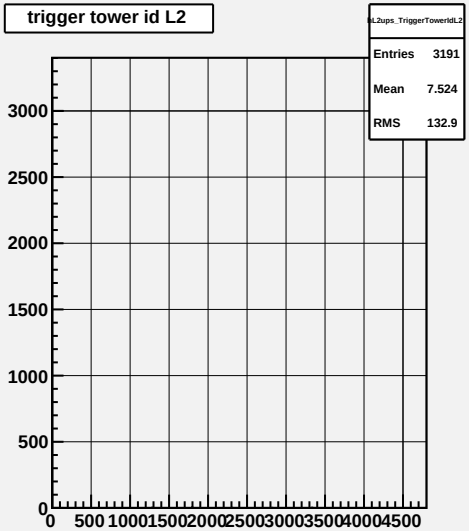

energy L0
hL2ups_EnergyL0
Entries 3191
Mean 0.126
RMS 0.7564
3000
2500
2000
1500
1000
500
0
0
5
10
15
20
25

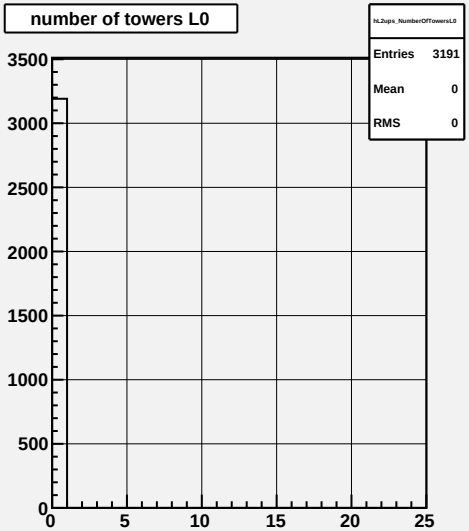

energy L2
hL2ups_EnergyL2
Entries 3191
Mean 0.1973
RMS 1.854
3000
2500
2000
1500
1000
500
0
0
5
10
15
20
25

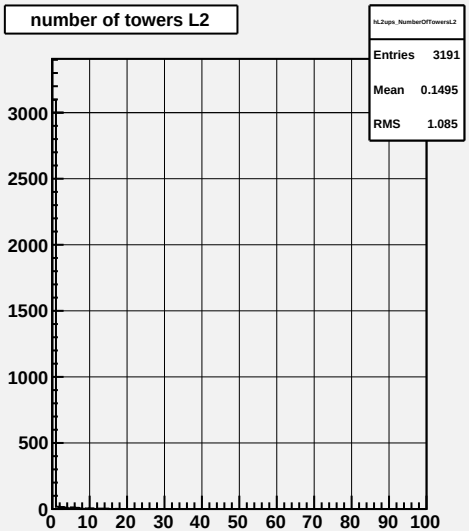

inv. mass
hL2ups_Mass
Entries 3191
Mean 0.1133
RMS 1.156
3000
2500
2000
1500
1000
500
0
0
2
4
6
8
10
12
14
16
18
20

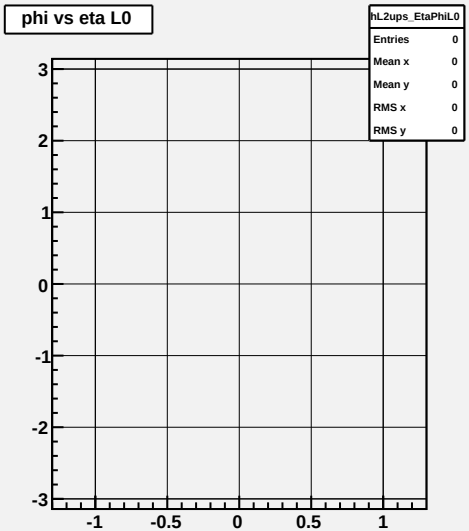

cos(theta)
hL2ups_CosTheta
Entries 3191
Mean 9.788e-12
RMS 5.444e-10
3500
3000
2500
2000
1500
1000
500
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

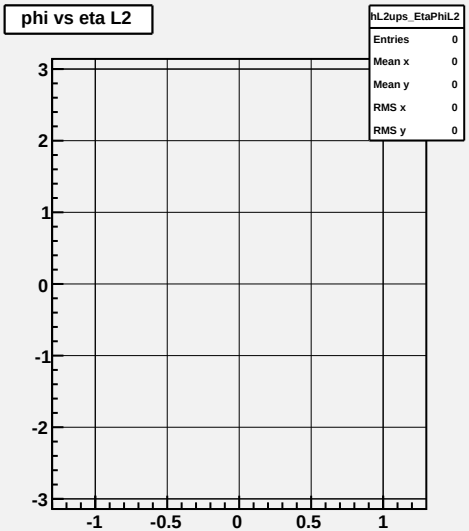

trigger tower id L0
hL2ups_TriggerTowerIdL0
Entries 3191
Mean 10.14
RMS 174.7

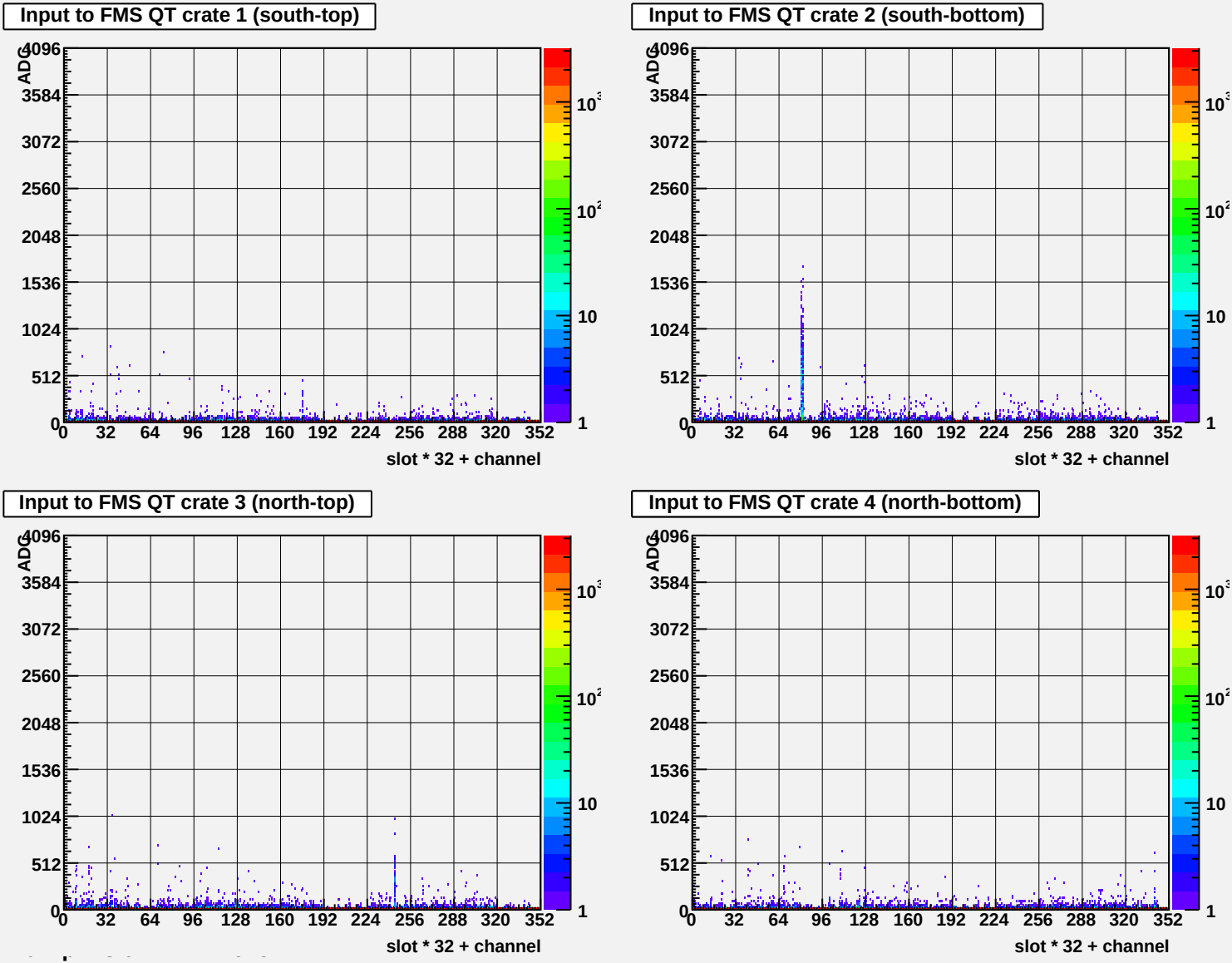

trigger tower id L2
hL2ups_TriggerTowerIdL2
Entries 3191
Mean 7.524
RMS 132.9


number of towers L0
hL2ups_NumberOfTowersL0
Entries 3191
Mean 0
RMS 0

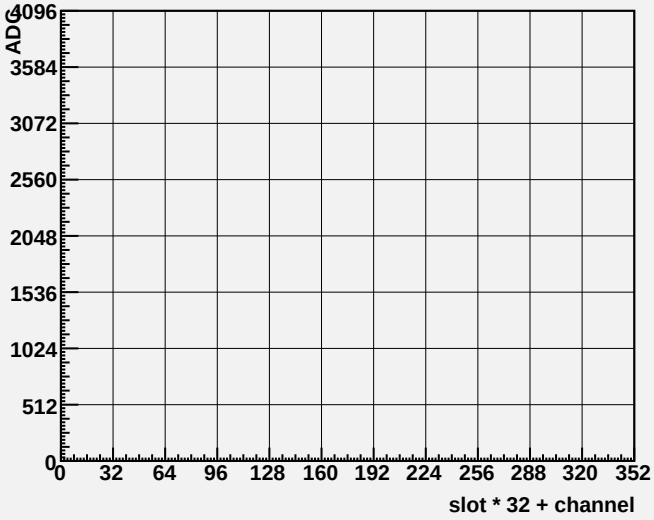

number of towers L2
hL2ups_NumberOfTowersL2
Entries 3191
Mean 0.1495
RMS 1.085


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

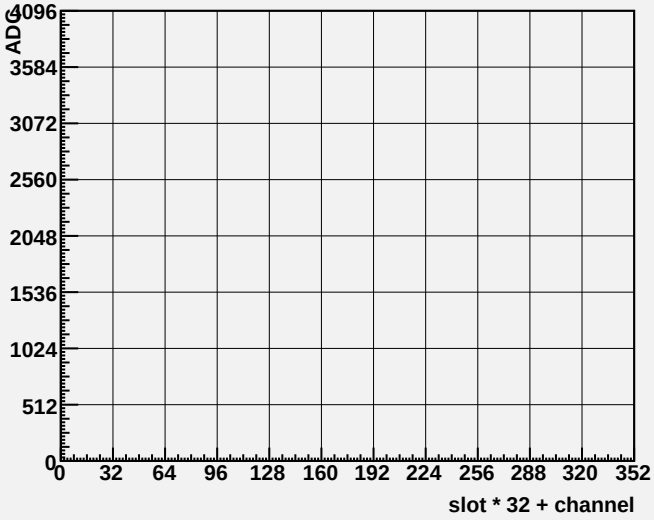

phi vs eta L2
hL2ups_EtaPhiL2
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0


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

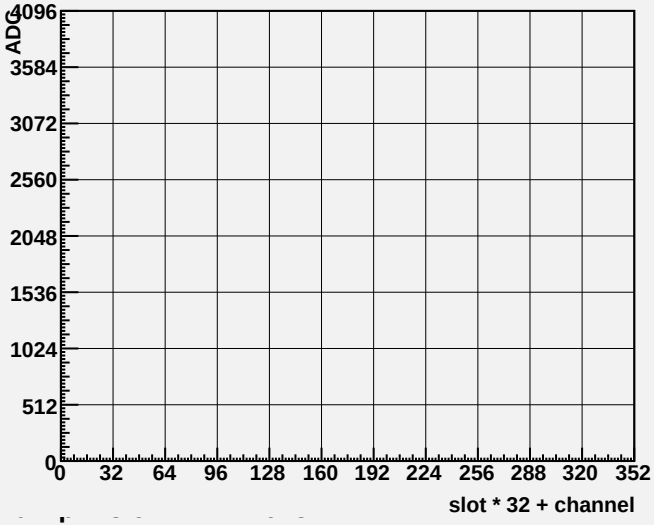
LED Input to FMS QT crate 1 (south-top)



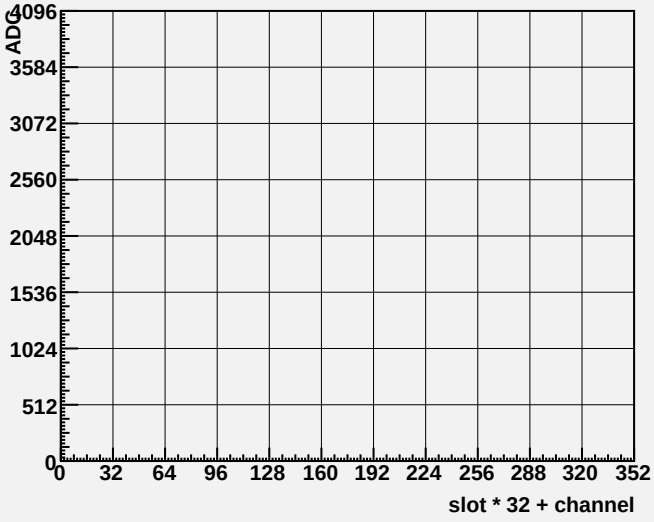
LED Input to FMS QT crate 2 (south-bottom)



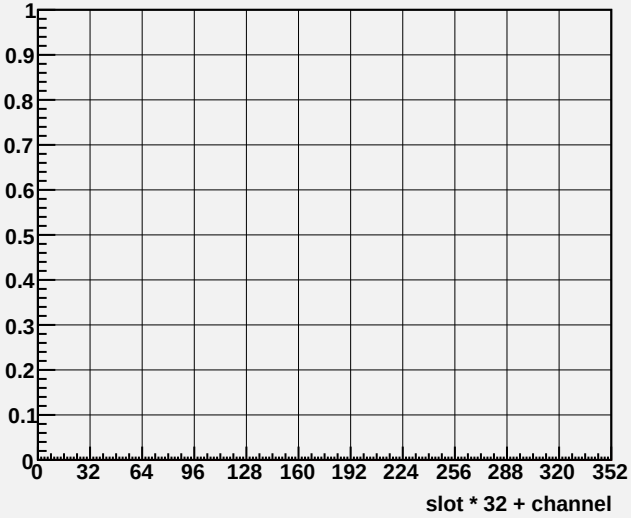
LED Input to FMS QT crate 3 (north-top)



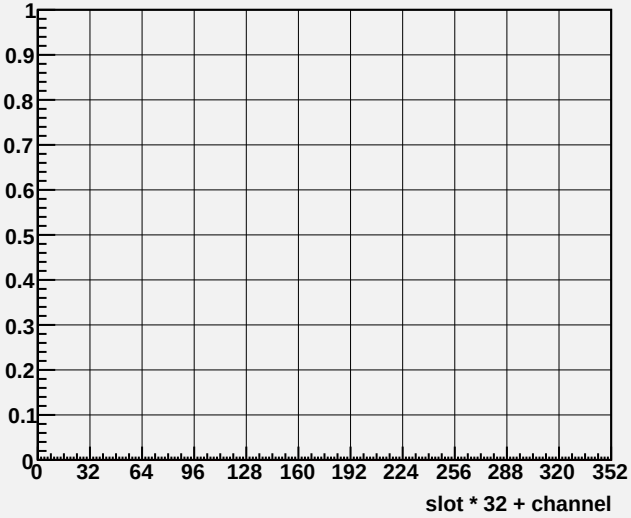
LED Input to FMS QT crate 4 (north-bottom)



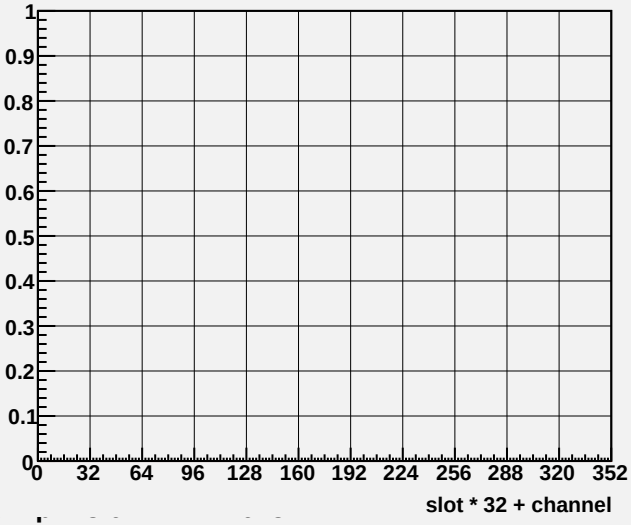
ADC>4094 for QT crate 1 (south-top)



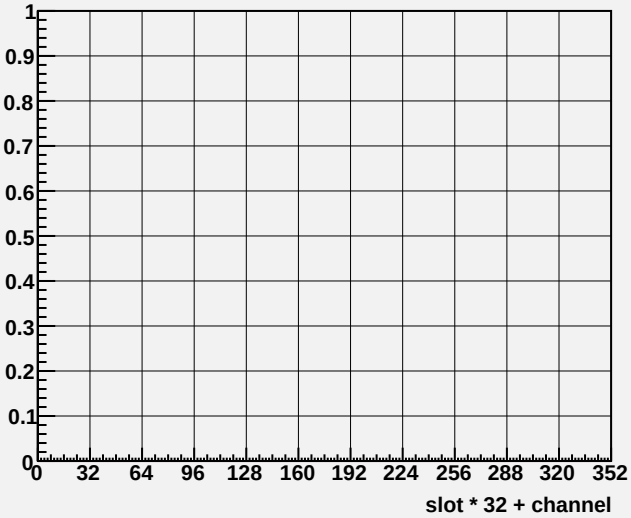
ADC>4094 for QT crate 2 (south-bottom)



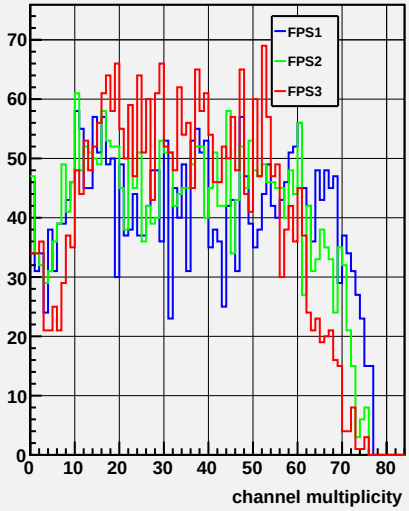
ADC>4094 for QT crate 3 (north-top)



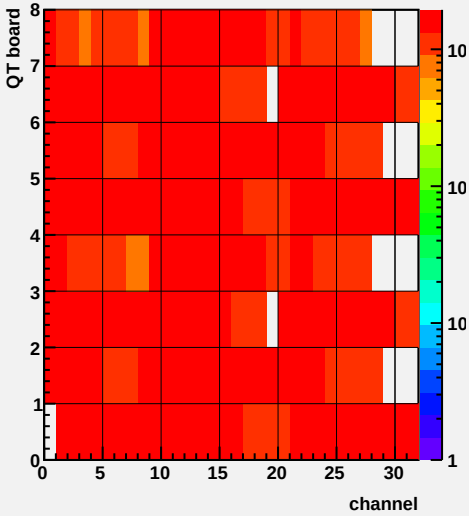
ADC>4094 for QT crate 4 (north-bottom)



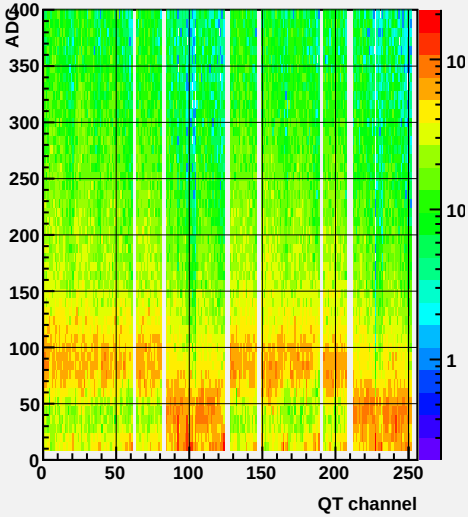
channel multiplicity



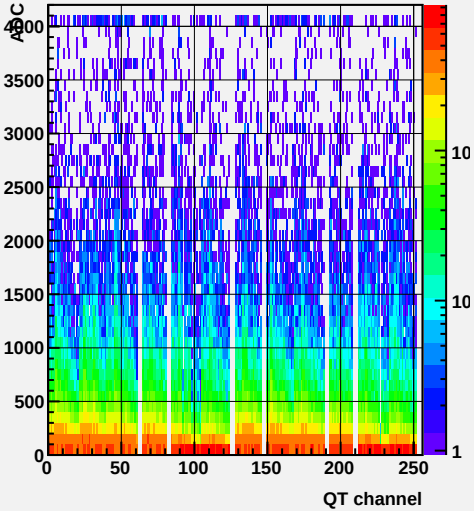
channel vs. rdo



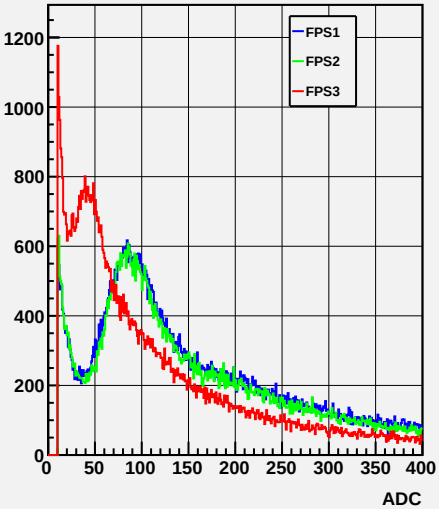
ADC vs. channel



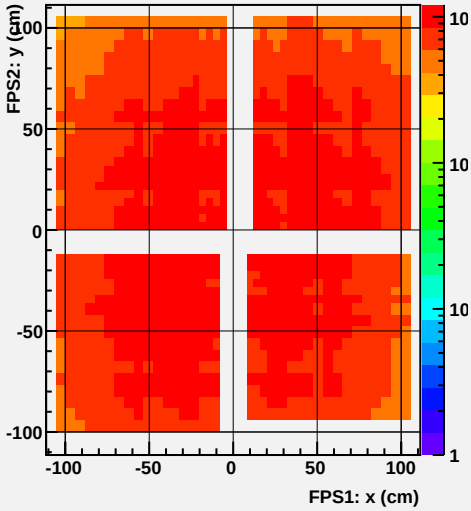
ADC vs. channel

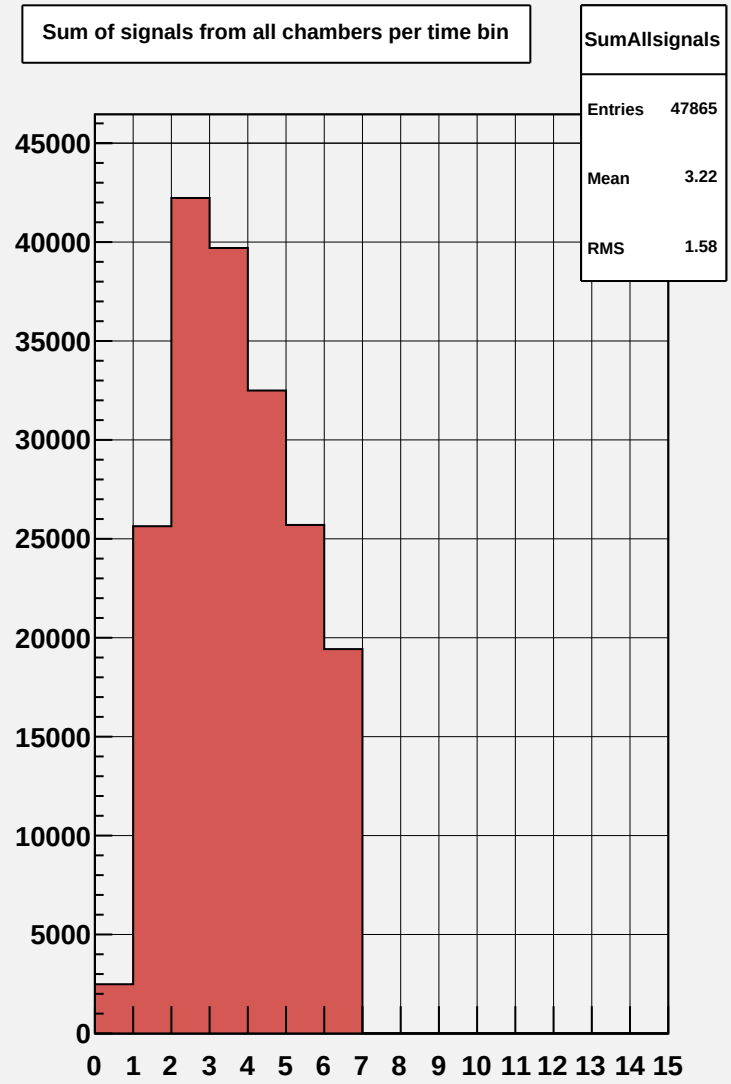


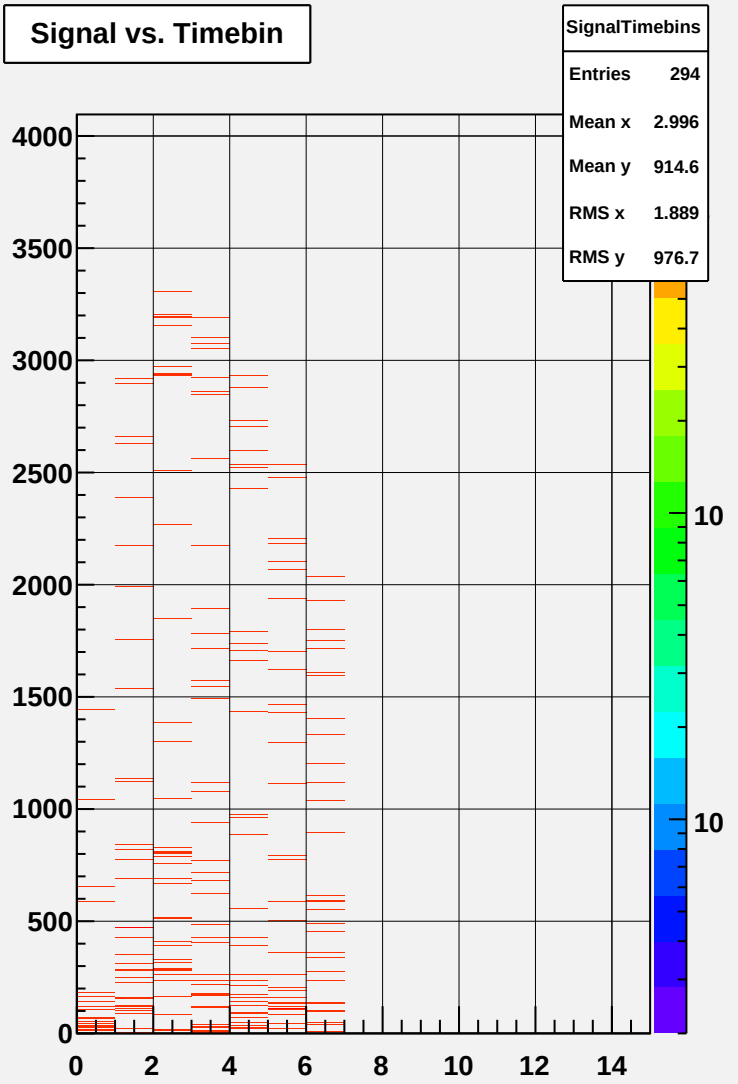
ADC spectra

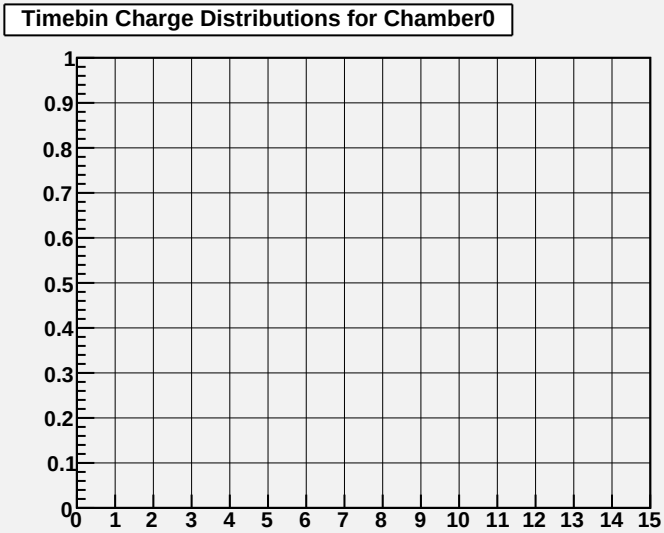


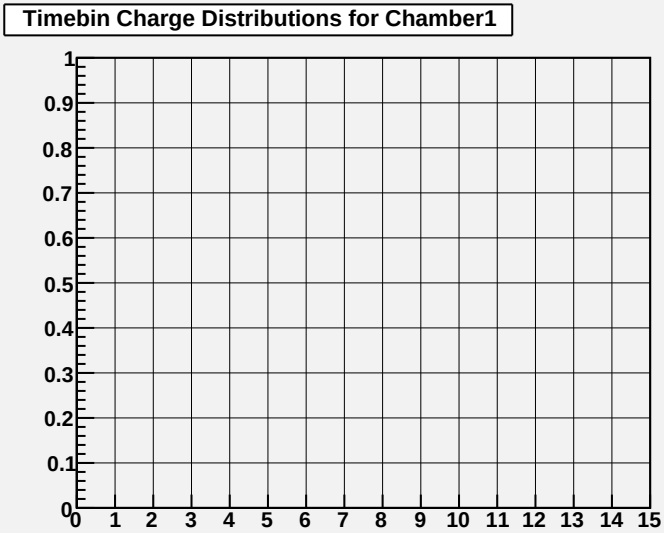
hits in layers 1 & 2

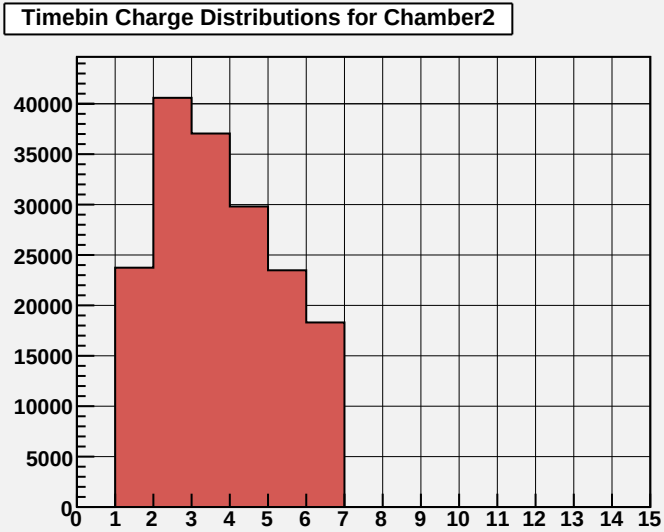


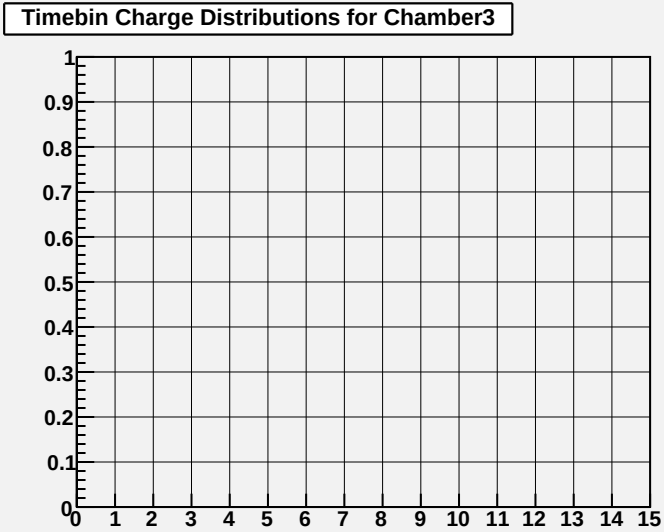

Sum of signals from all chambers per time bin
SumAllsignals
Entries 47865
Mean 3.22
RMS 1.58
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

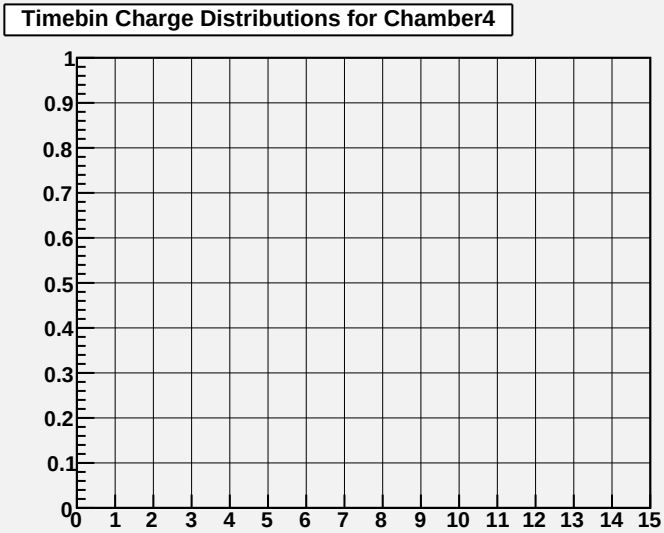

Signal vs. Timebin
SignalTimebins
Entries 294
Mean x 2.996
Mean y 914.6
RMS x 1.889
RMS y 976.7
4000
3500
3000
2500
2000
1500
1000
500
0
0 2 4 6 8 10 12 14
10
10

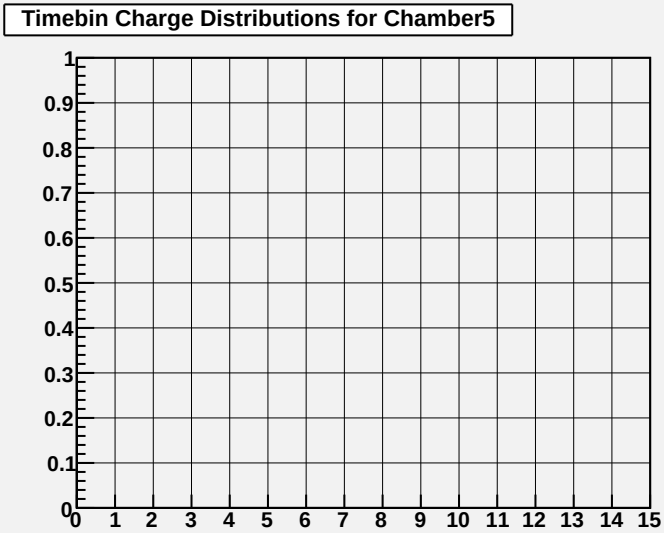

Timebin Charge Distributions for Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

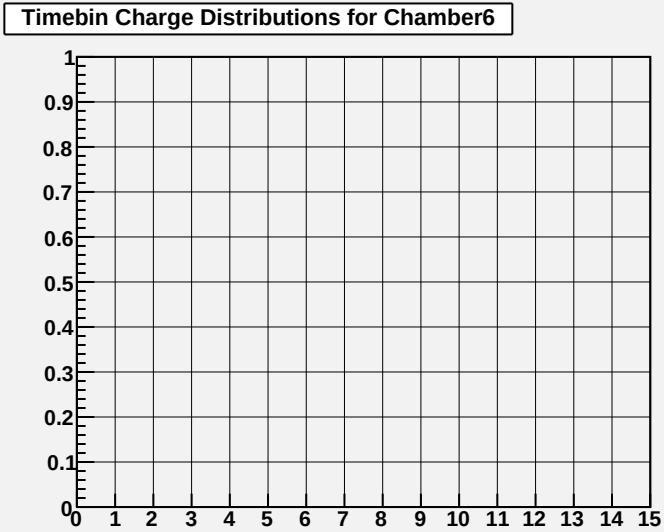

Timebin Charge Distributions for Chamber1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

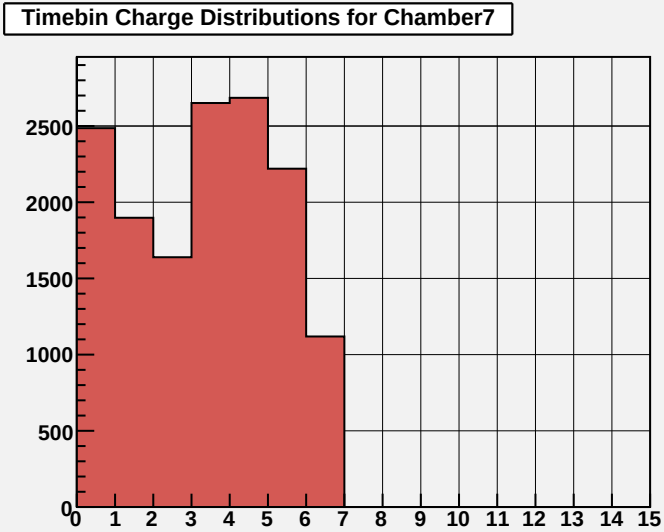

Timebin Charge Distributions for Chamber2
40000
35000
30000
25000
20000
15000
10000
5000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

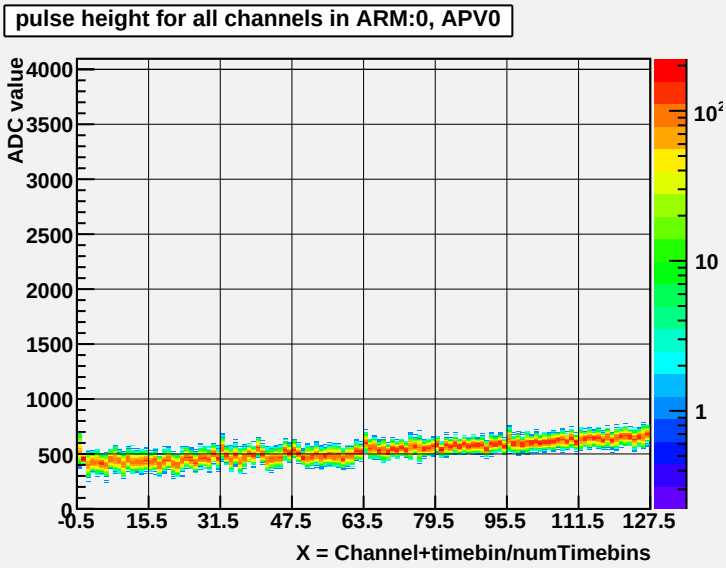

Timebin Charge Distributions for Chamber3
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

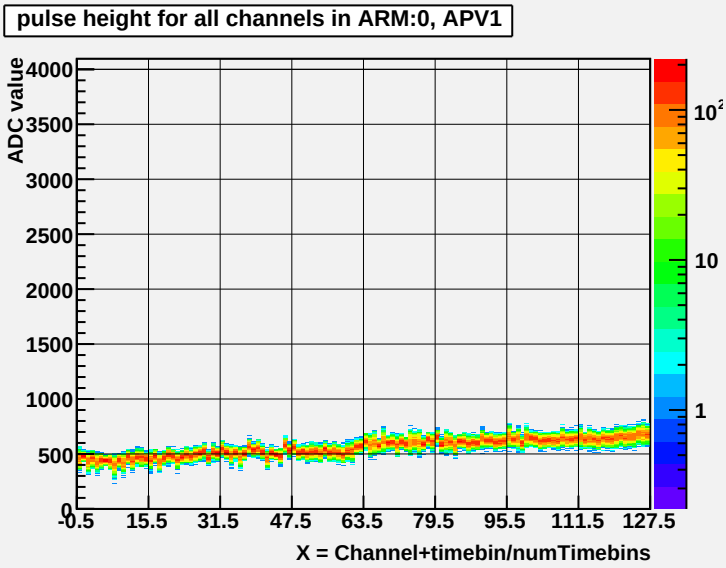

Timebin Charge Distributions for Chamber4
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

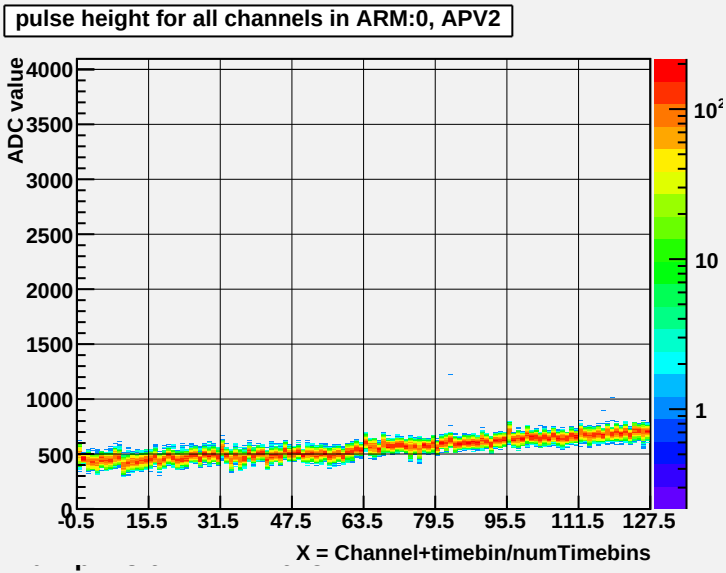

Timebin Charge Distributions for Chamber5
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

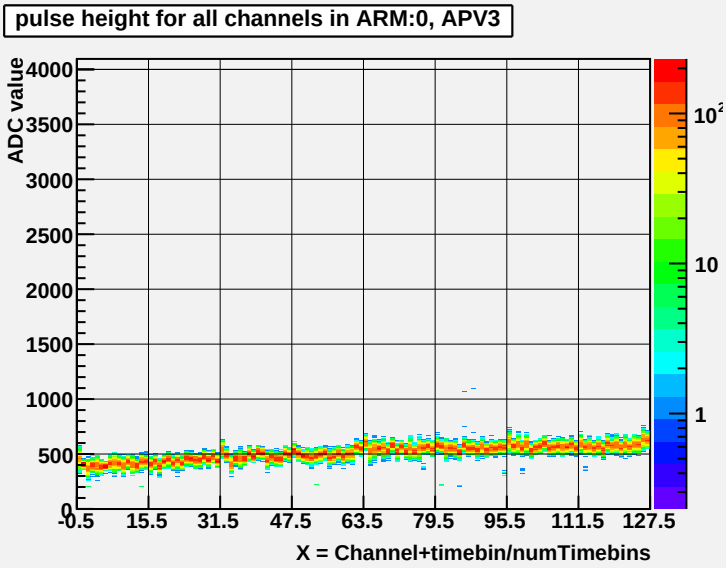

Timebin Charge Distributions for Chamber6
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

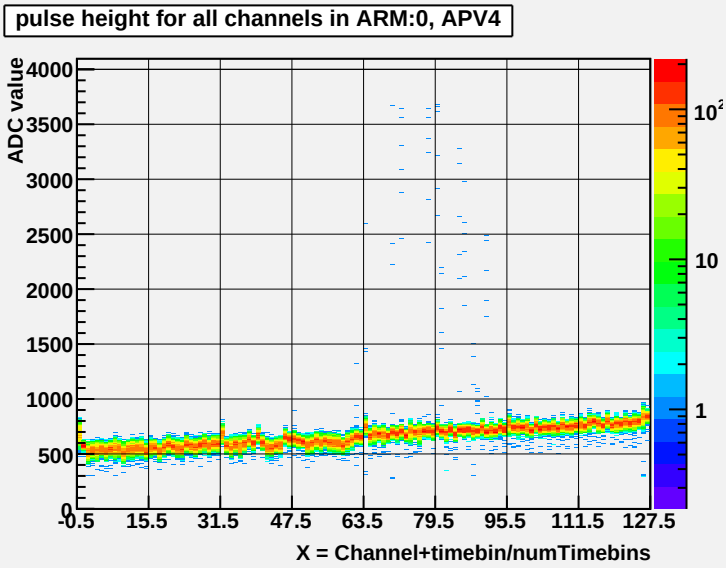

Timebin Charge Distributions for Chamber7
2500
2000
1500
1000
500
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

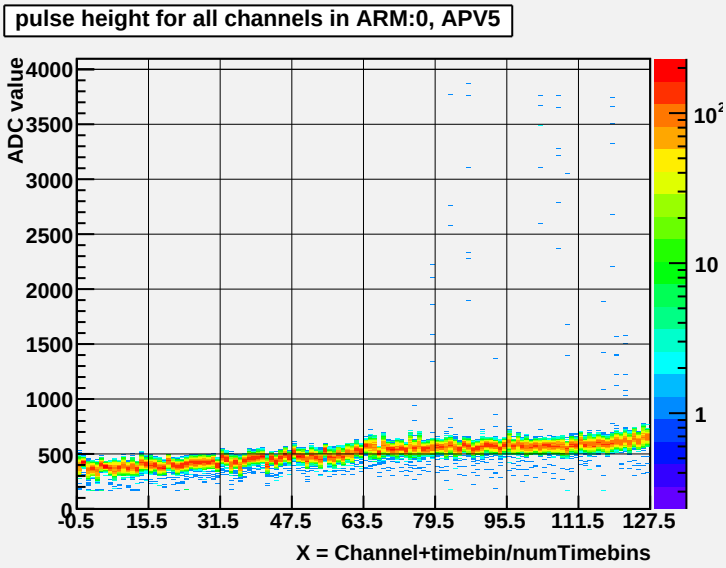

pulse height for all channels in ARM:0, APV0
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

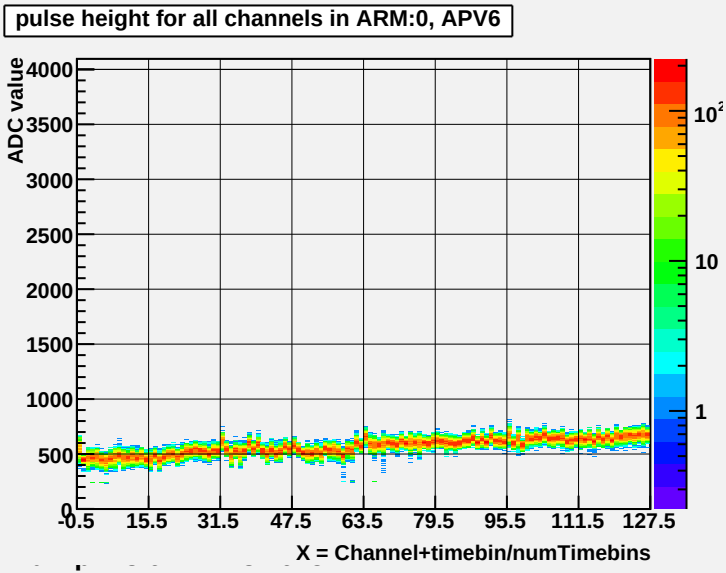

pulse height for all channels in ARM:0, APV1
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

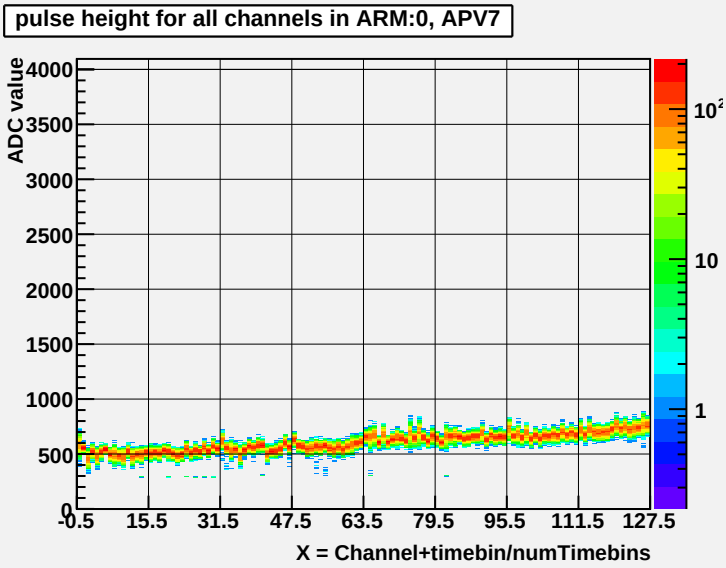

pulse height for all channels in ARM:0, APV2
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

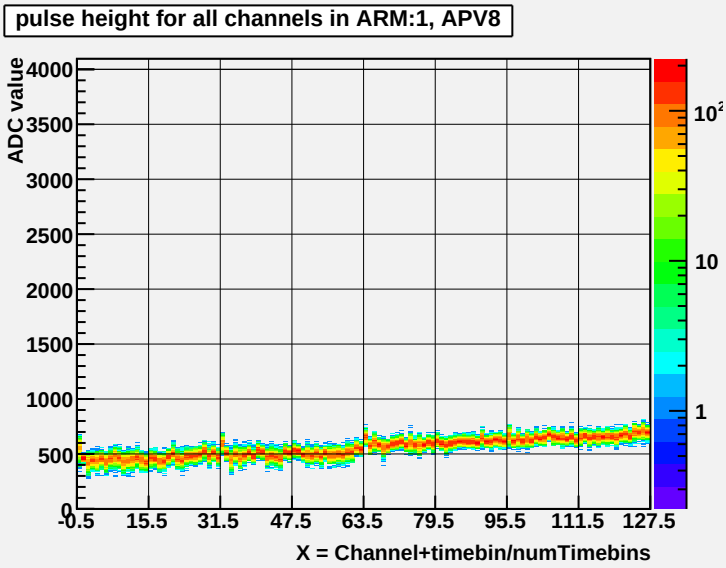

pulse height for all channels in ARM:0, APV3
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

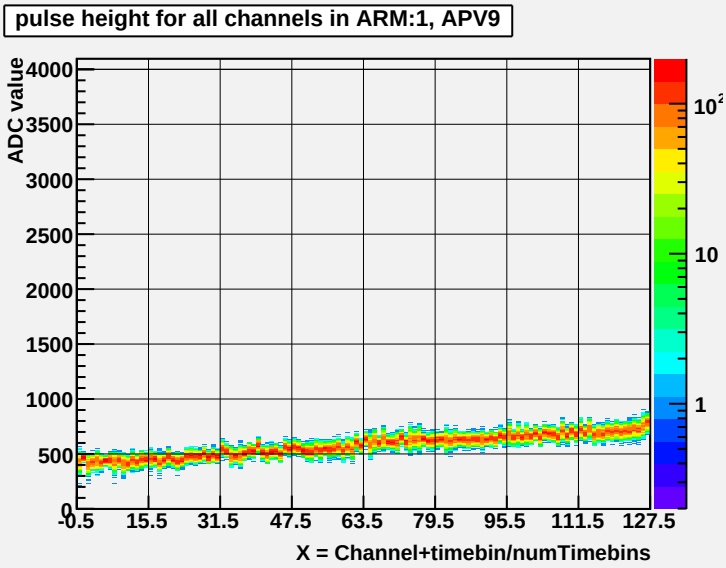

pulse height for all channels in ARM:0, APV4
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

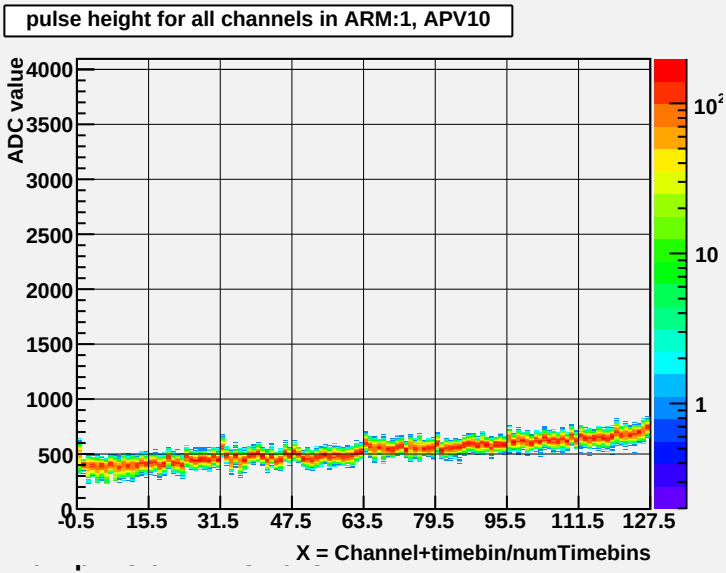

pulse height for all channels in ARM:0, APV5
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

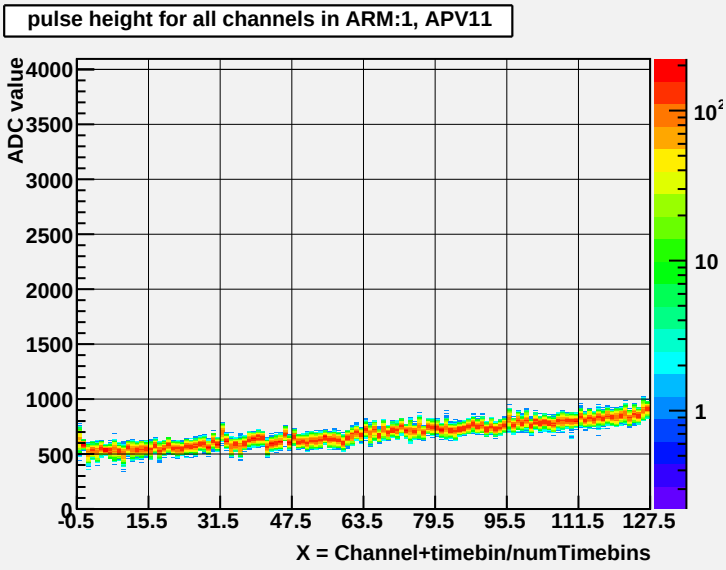

pulse height for all channels in ARM:0, APV6
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

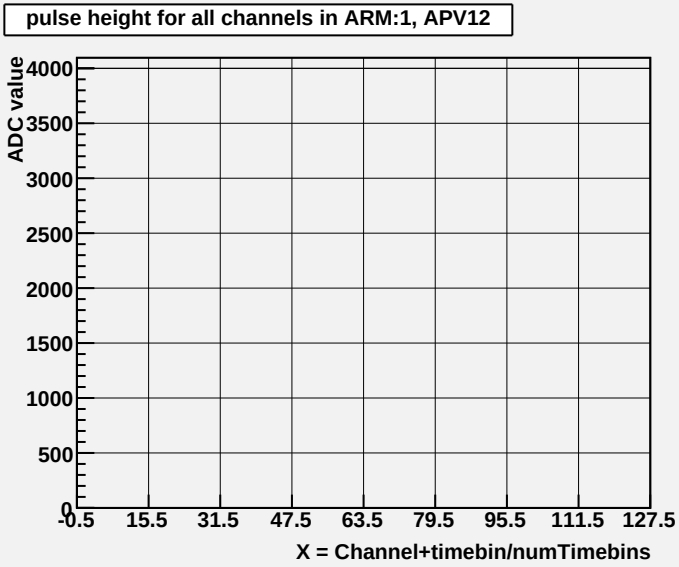

pulse height for all channels in ARM:0, APV7
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

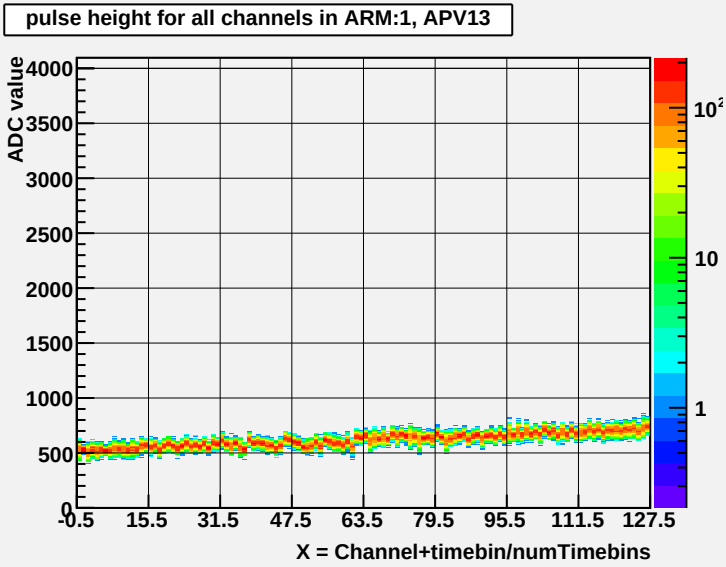

pulse height for all channels in ARM:1, APV8
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

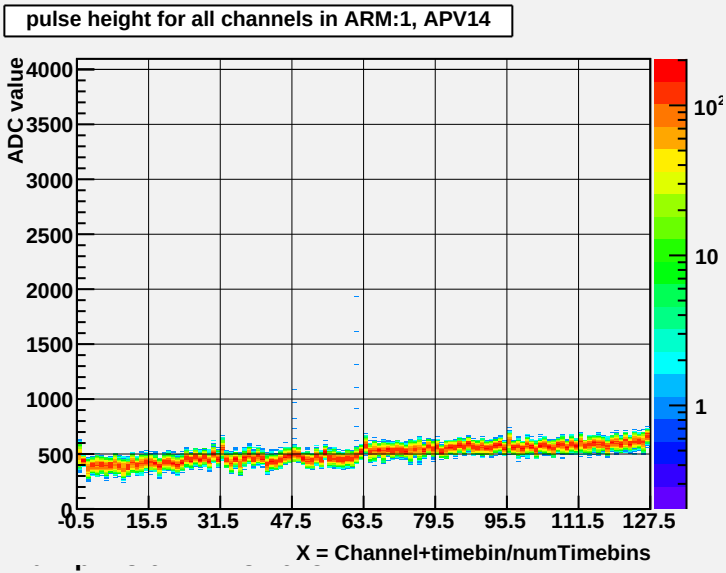

pulse height for all channels in ARM:1, APV9
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

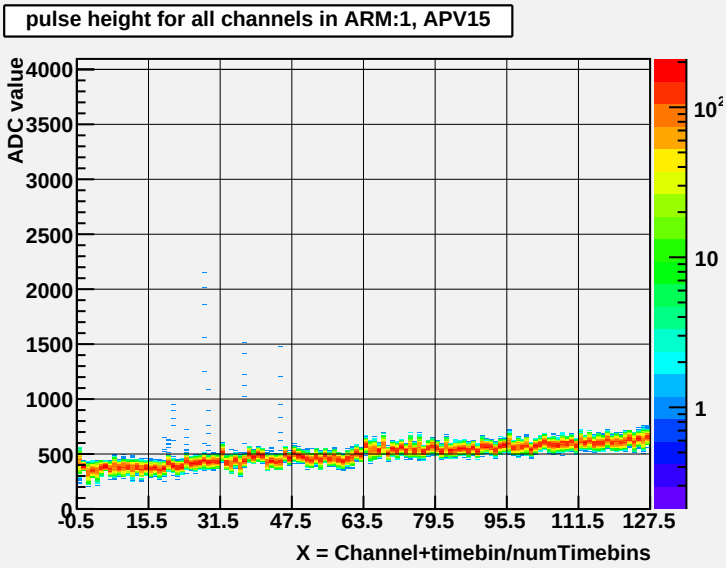

pulse height for all channels in ARM:1, APV10
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

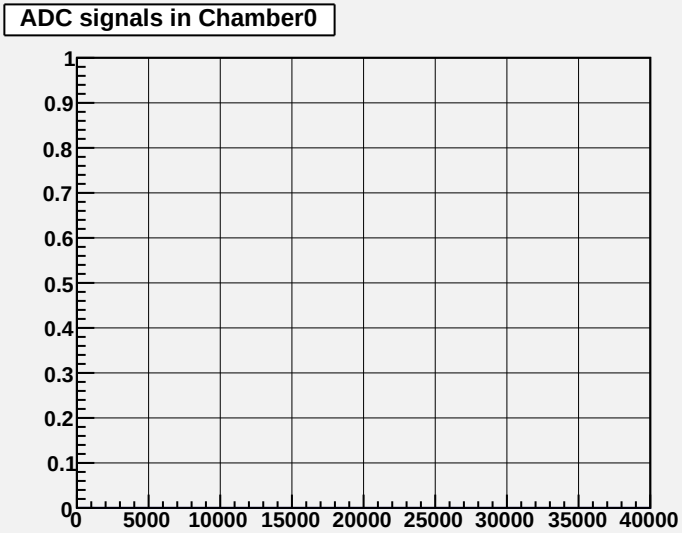

pulse height for all channels in ARM:1, APV11
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

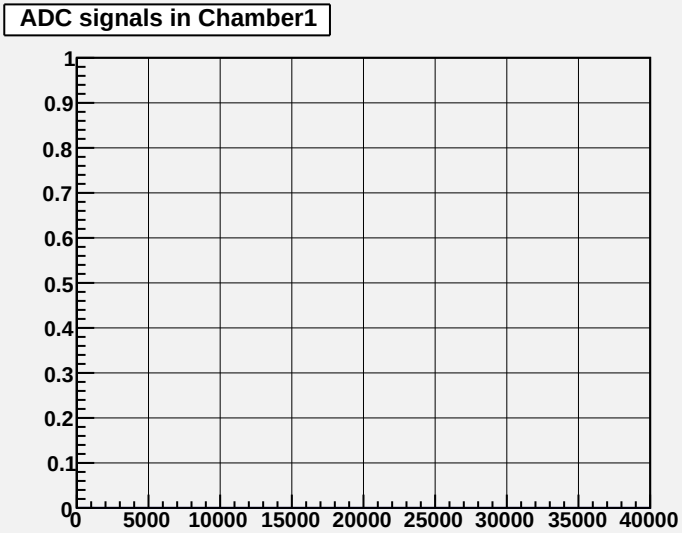

pulse height for all channels in ARM:1, APV12
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins

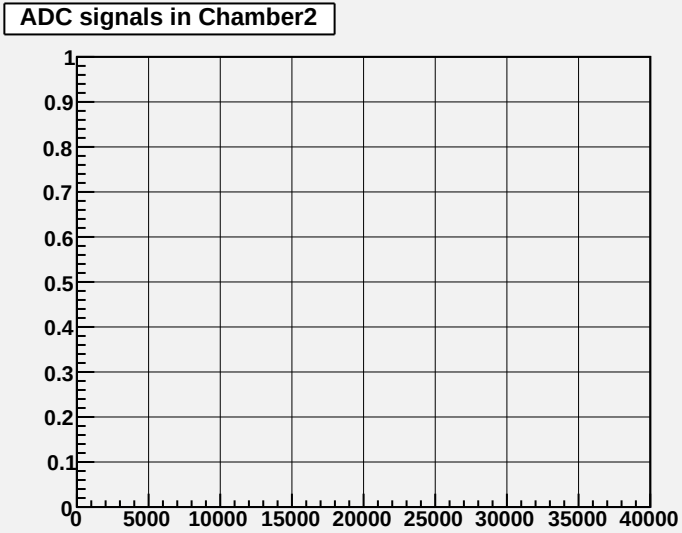

pulse height for all channels in ARM:1, APV13
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

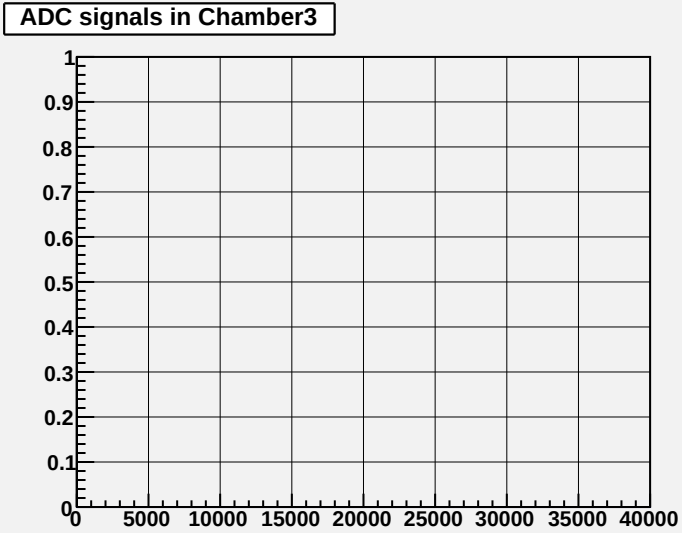

pulse height for all channels in ARM:1, APV14
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

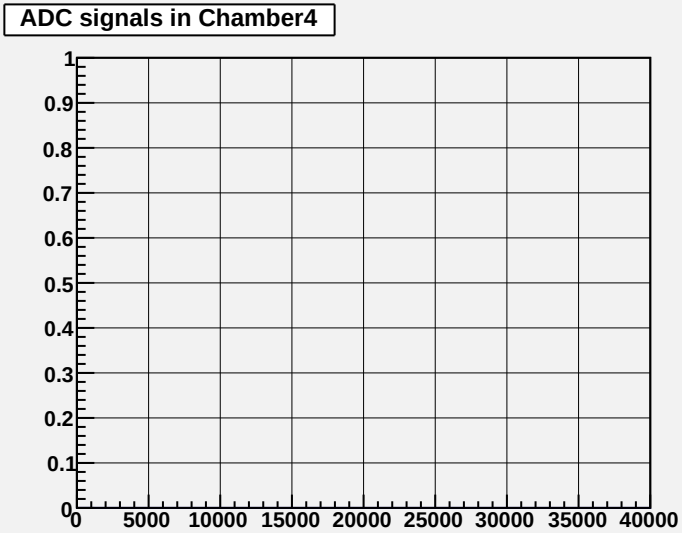

pulse height for all channels in ARM:1, APV15
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

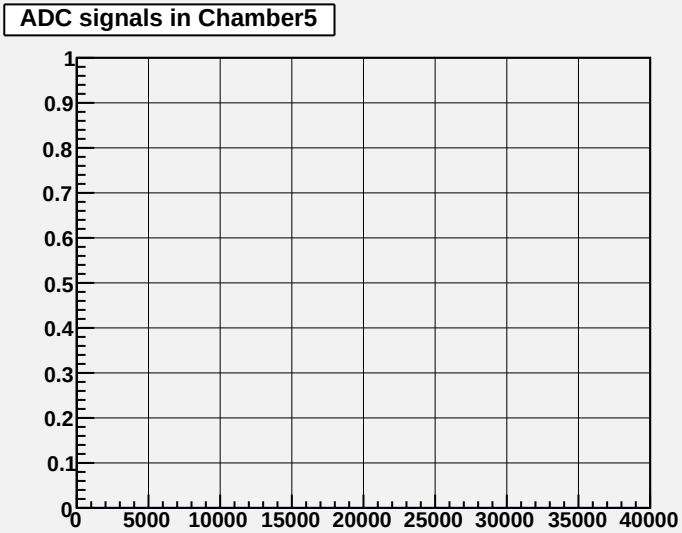

ADC signals in Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

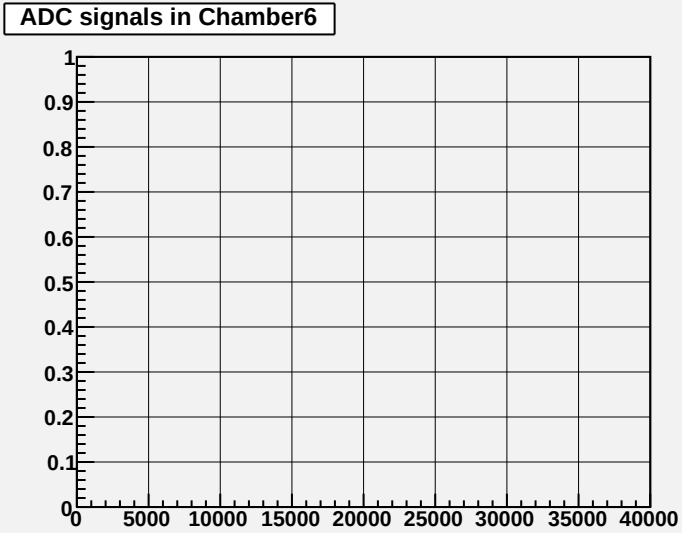

ADC signals in Chamber1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

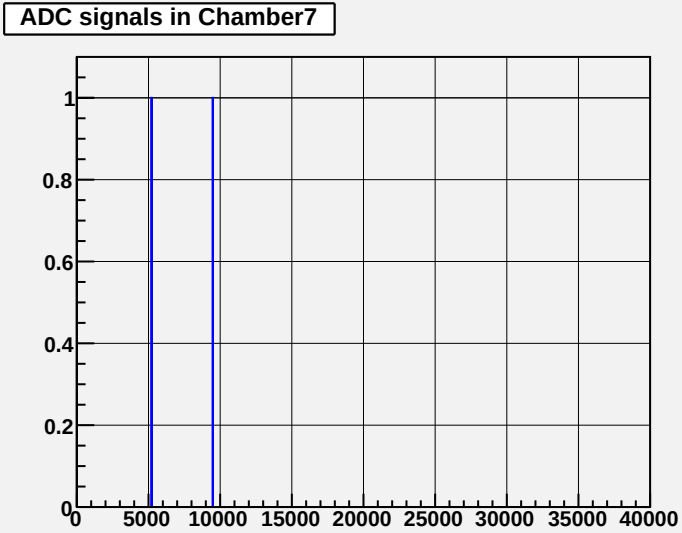

ADC signals in Chamber2
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000


ADC signals in Chamber3
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

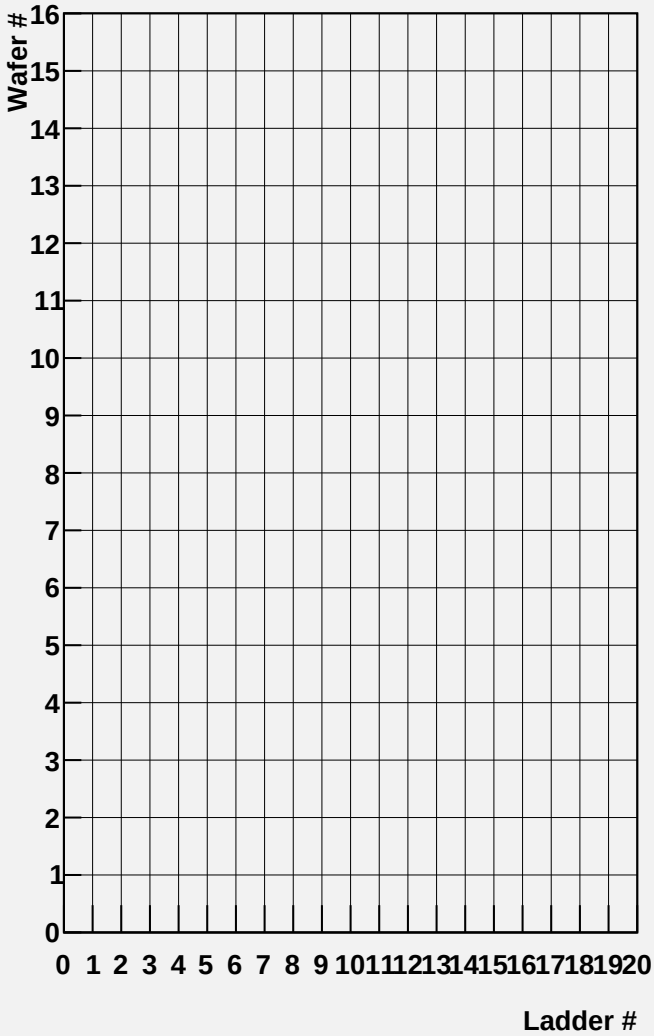

ADC signals in Chamber4
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000


ADC signals in Chamber5
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

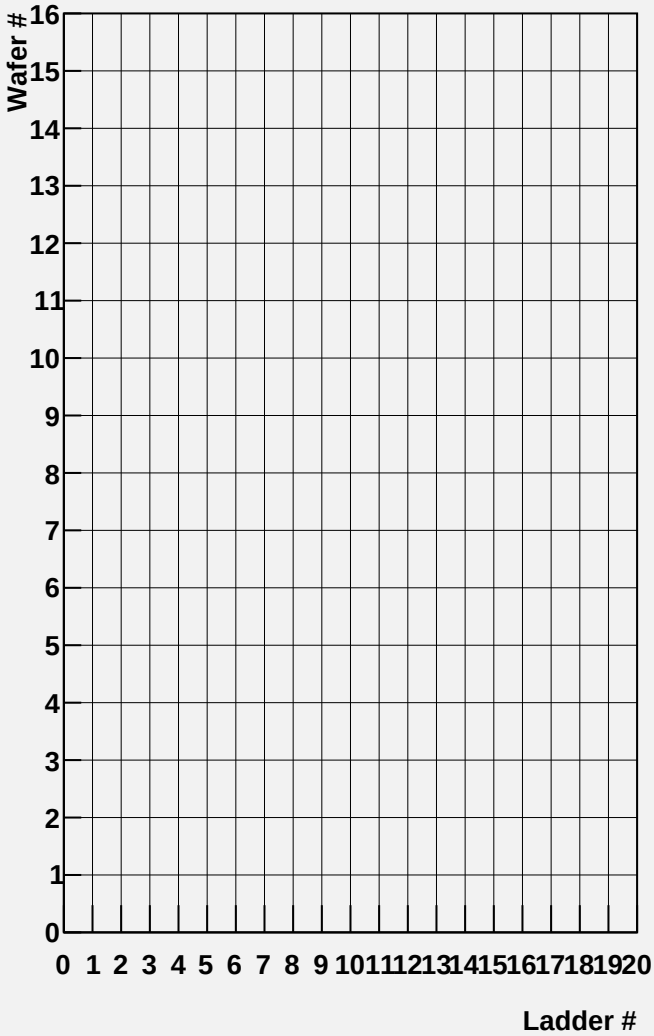

ADC signals in Chamber6
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

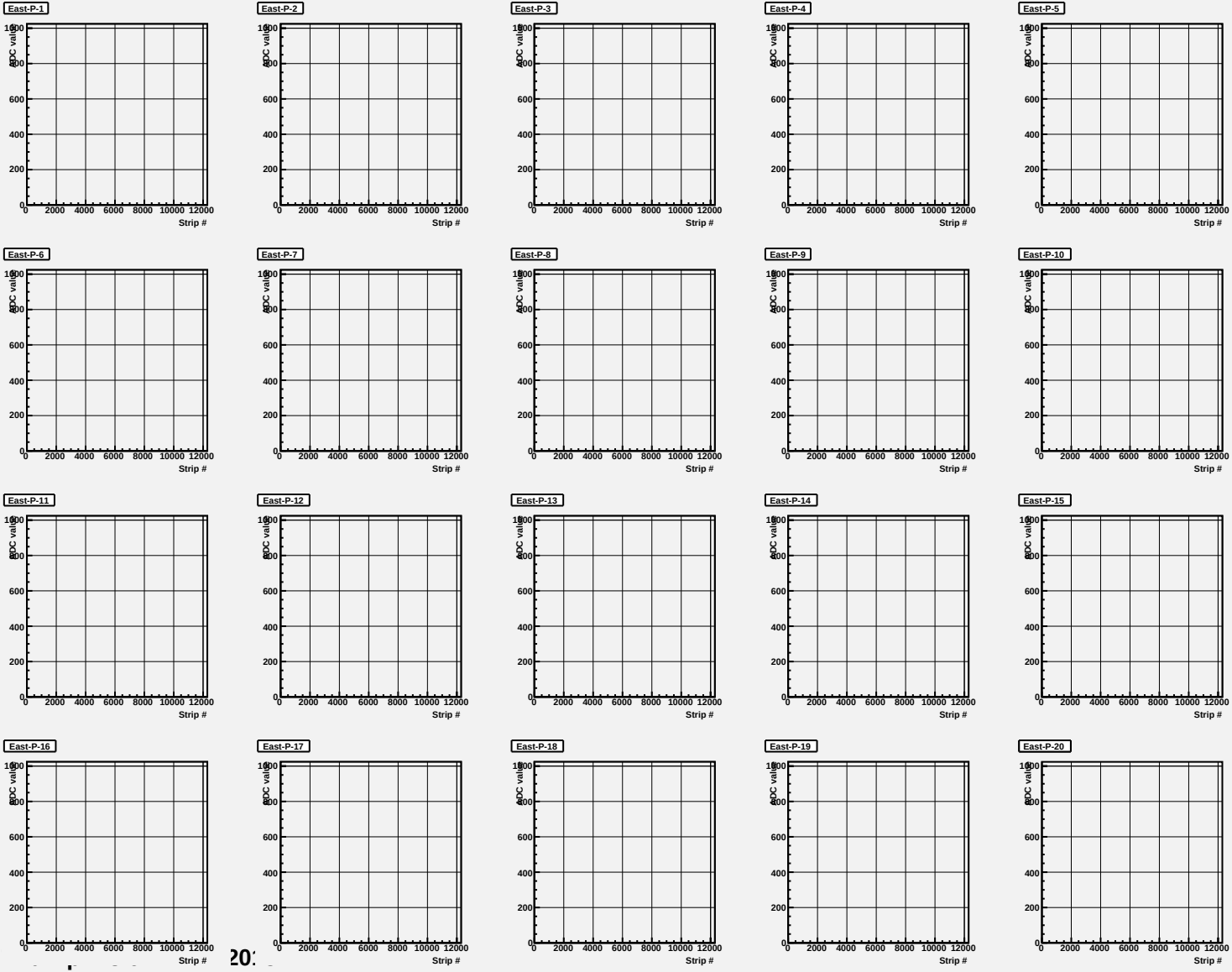

ADC signals in Chamber7
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

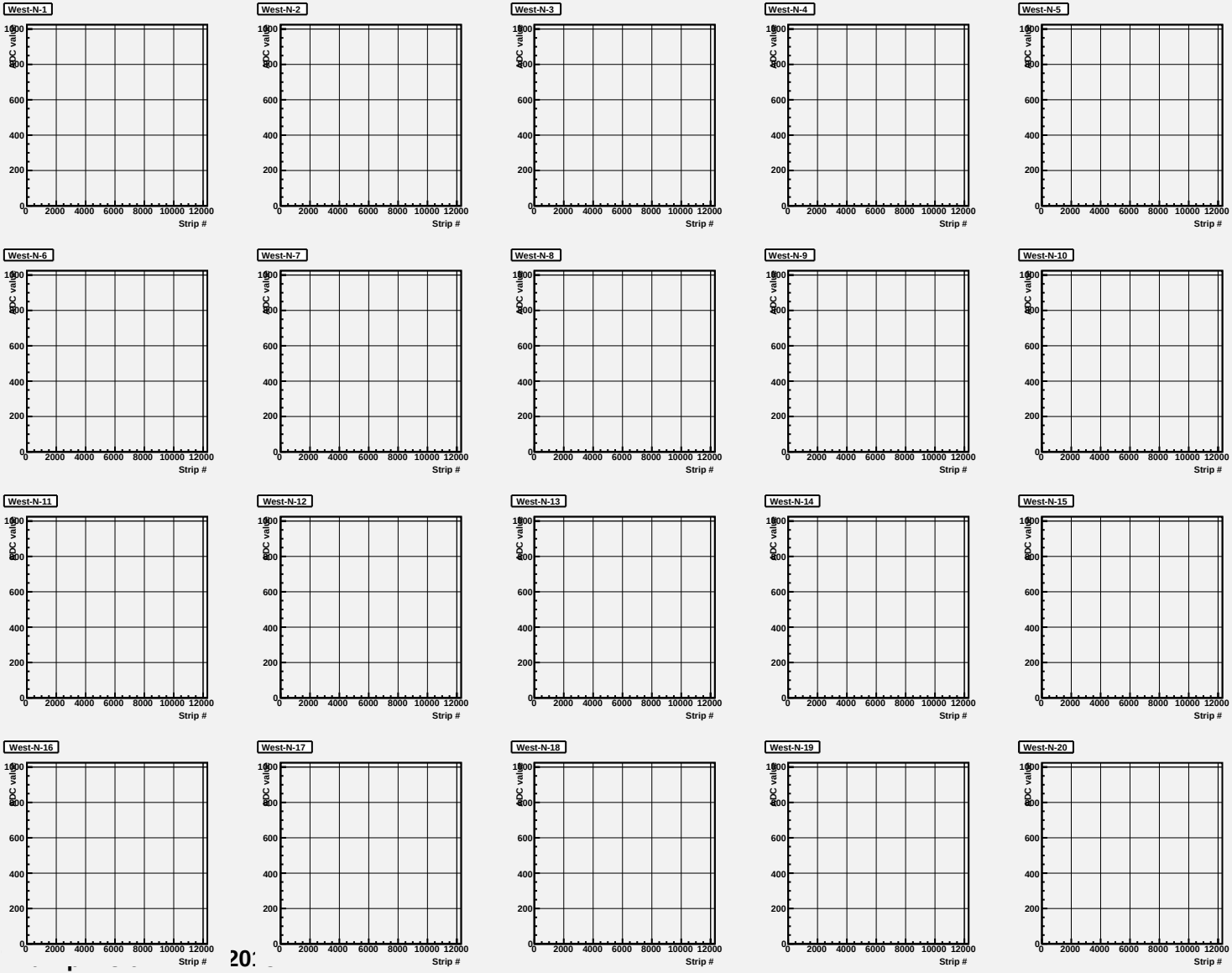
N-side Hit Map

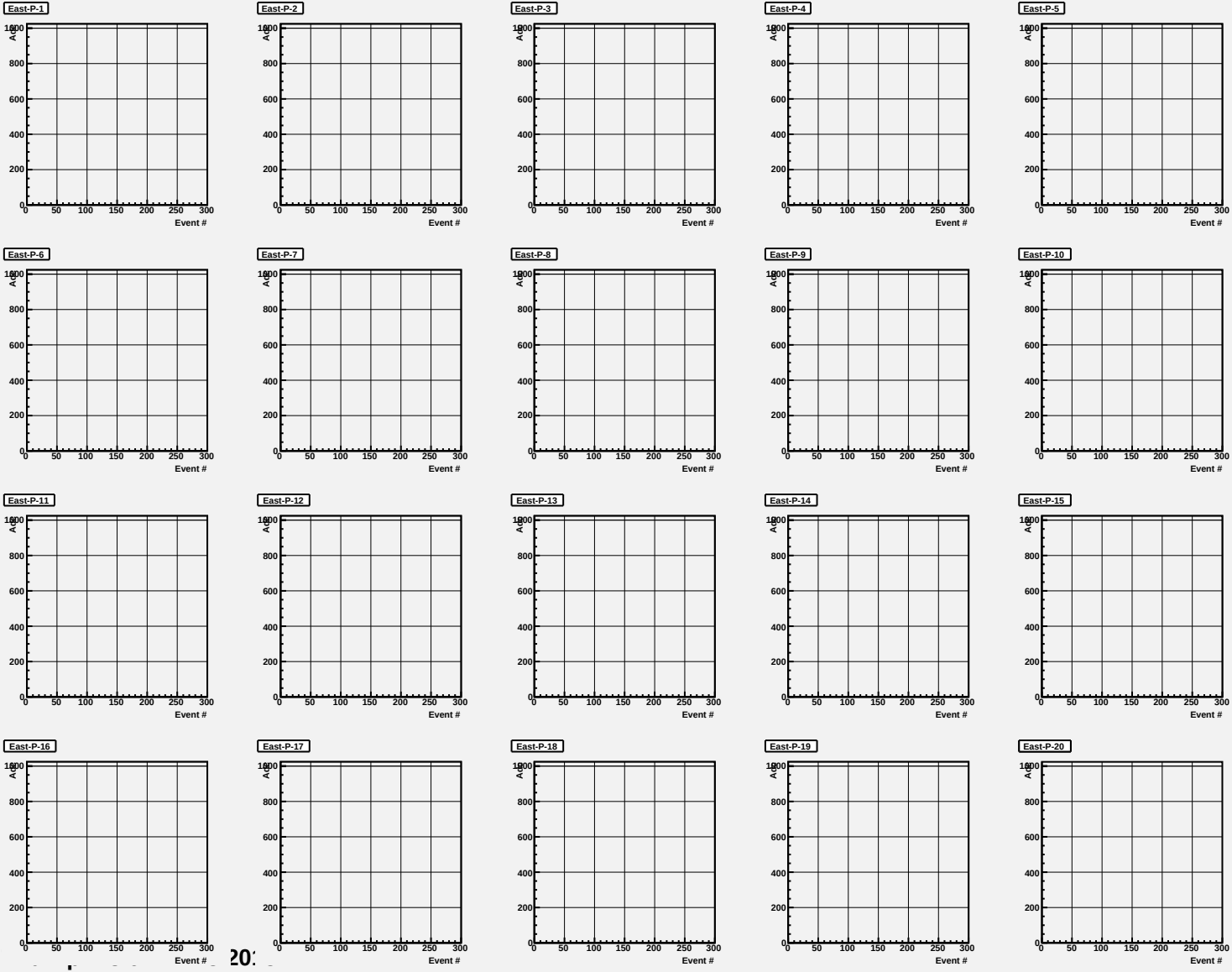


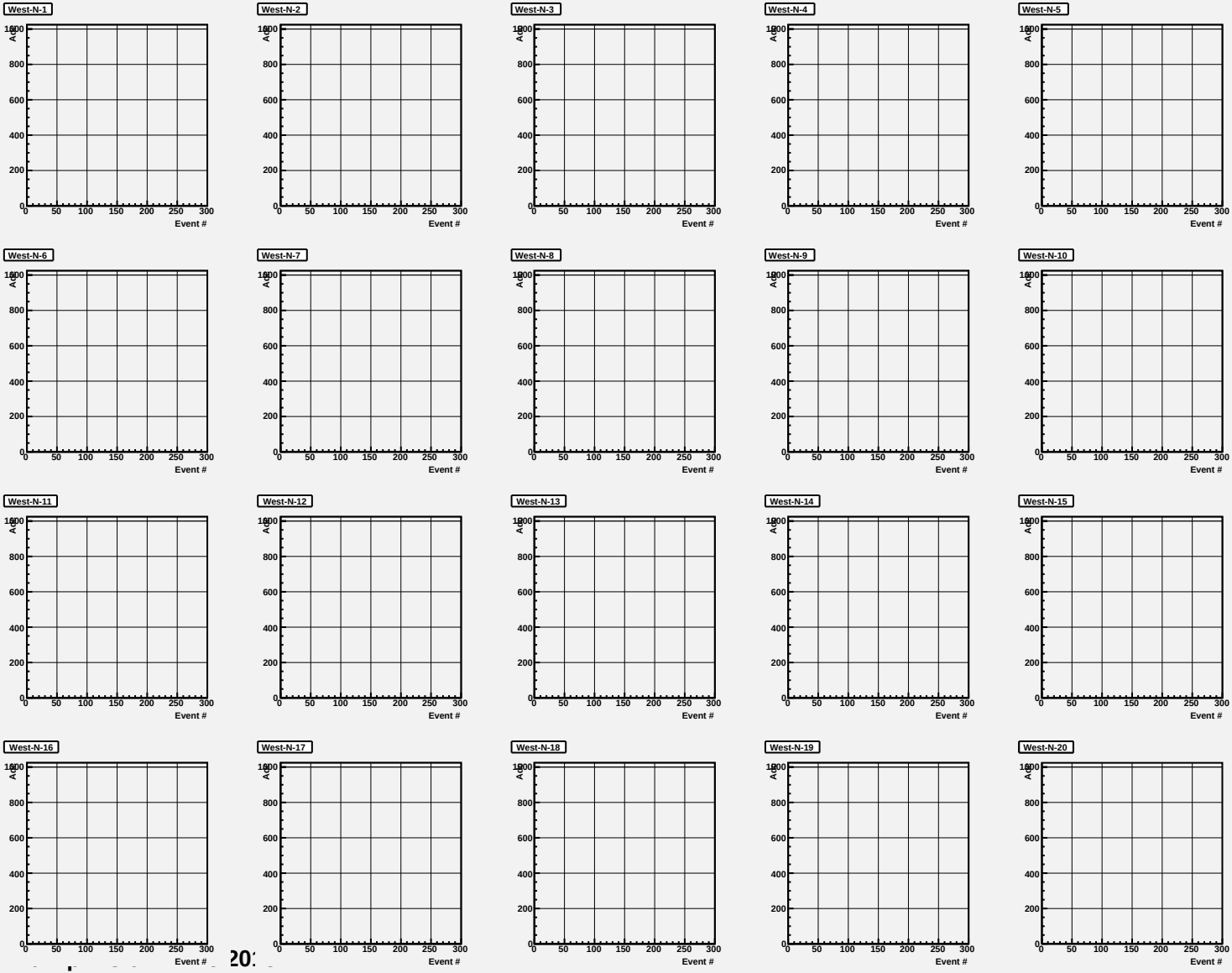
P-side Hit Map

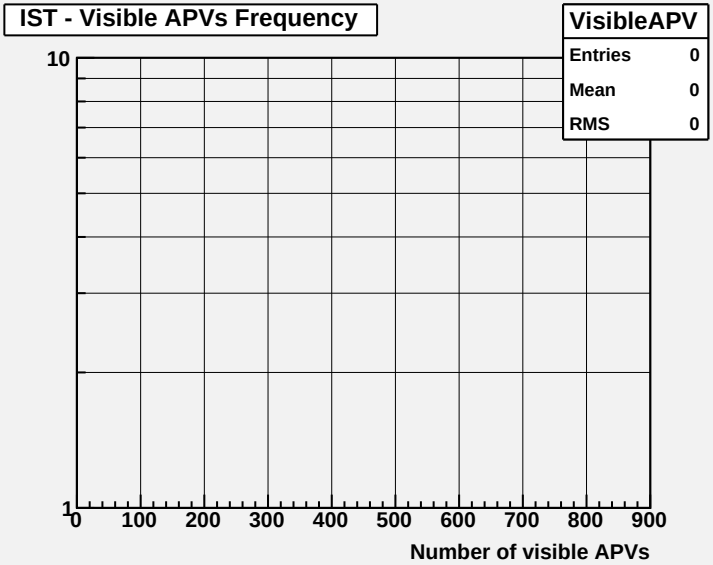


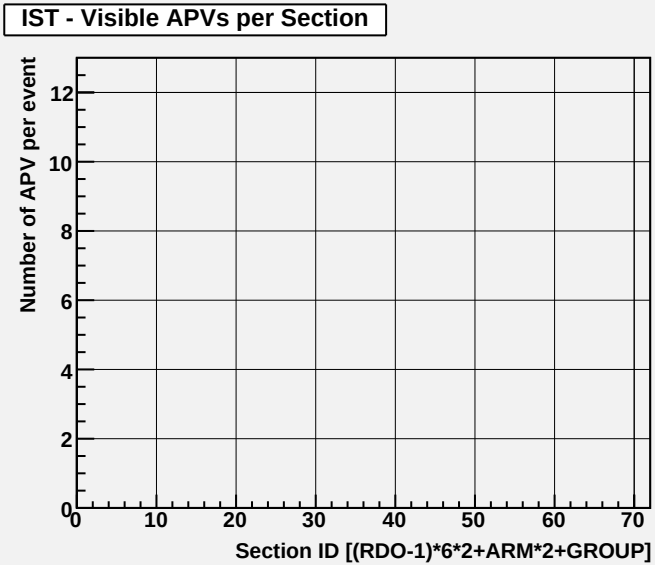

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
ADC value
Strip #
0
200
400
600
800
1000
1200
2000
4000
6000
8000
10000
12000

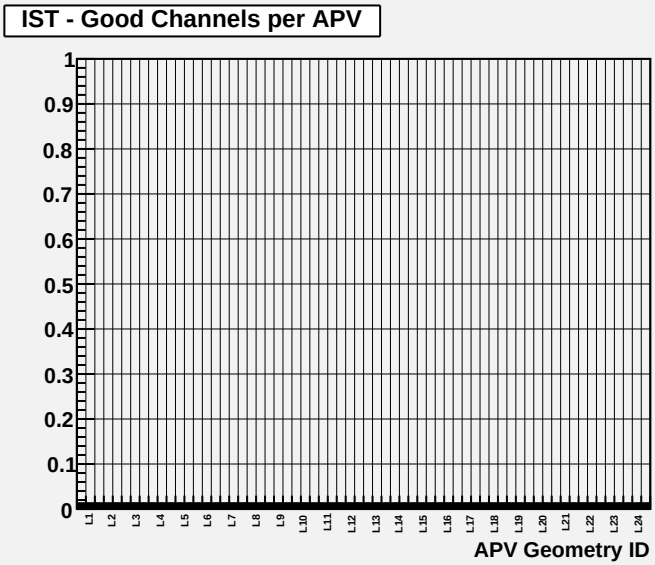

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
ADC value
Strip #
0
200
400
600
800
1000
1200
2000
4000
6000
8000
10000
12000

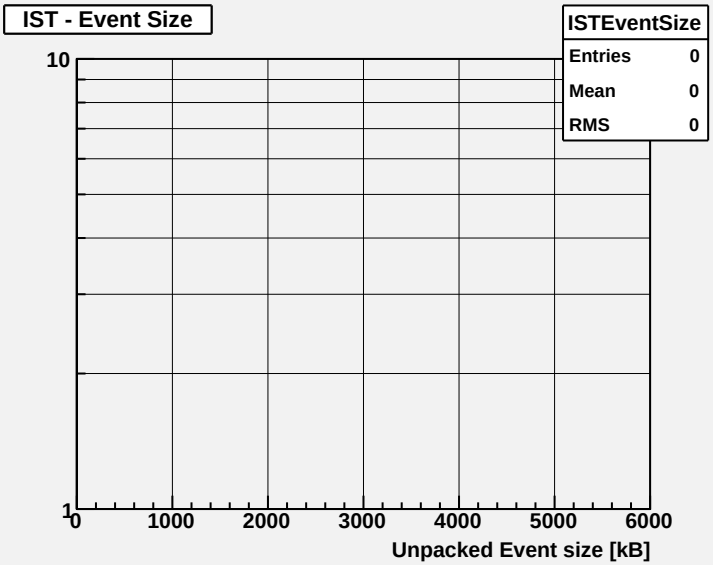

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
Adc
Event #
0
200
400
600
800
1000
0
50
100
150
200
250
300

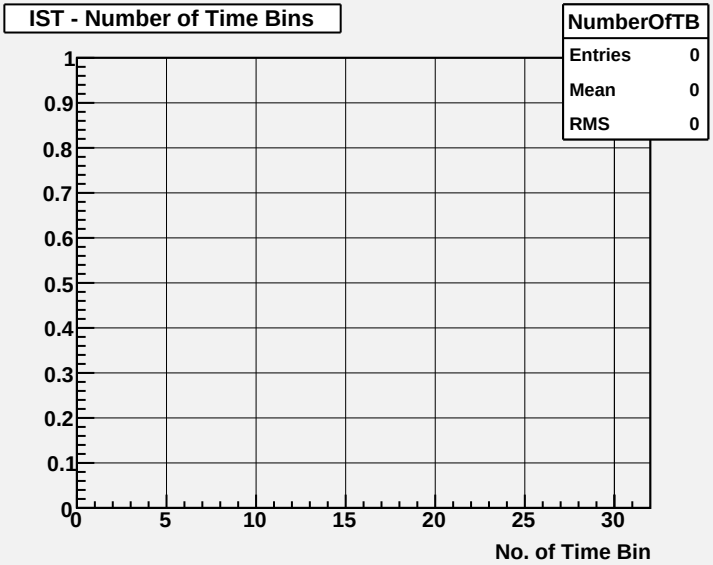

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
Adc
Event #
0
200
400
600
800
1000
50
100
150
200
250
300

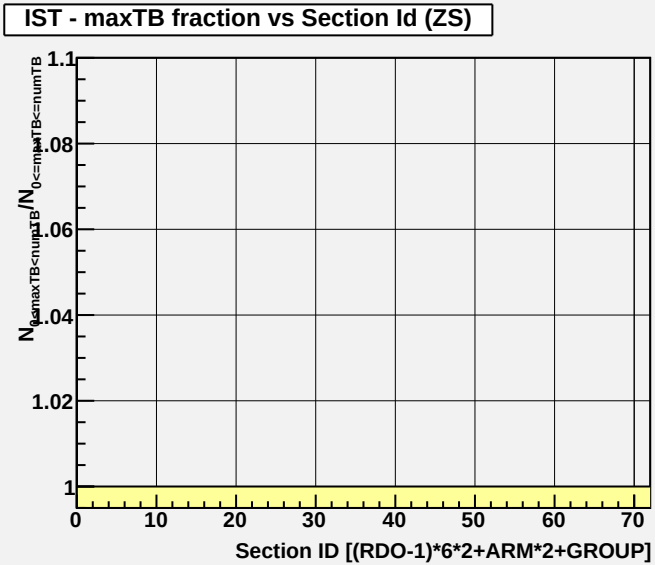

IST - Visible APVs Frequency
VisibleAPV
Entries 0
Mean 0
RMS 0
10
1
0 100 200 300 400 500 600 700 800 900
Number of visible APVs

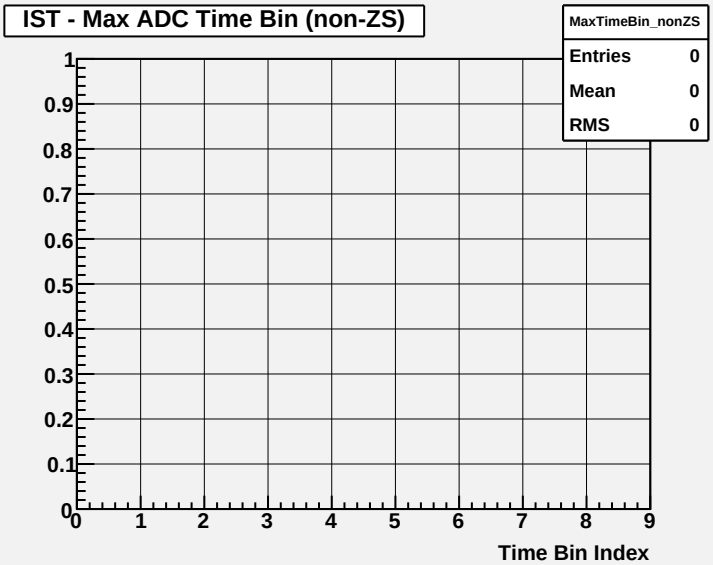

IST - Visible APVs per Section
Number of APV per event
0 2 4 6 8 10 12
0 10 20 30 40 50 60 70
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

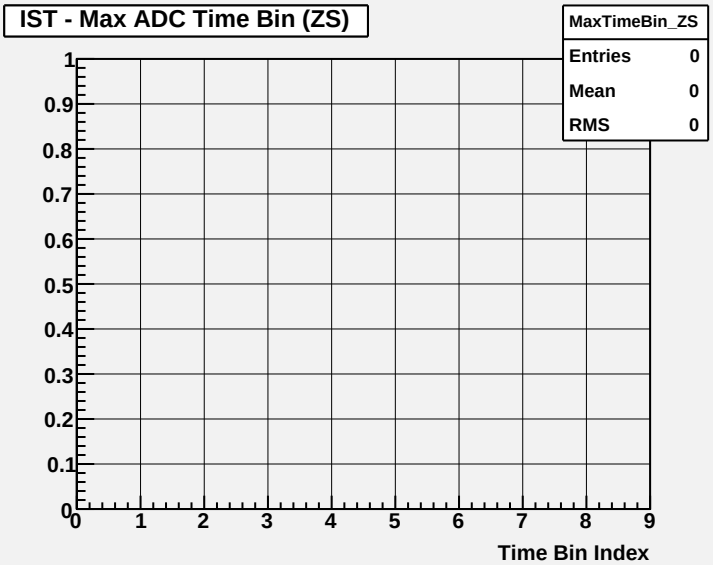

IST - Good Channels per APV
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24
APV Geometry ID


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

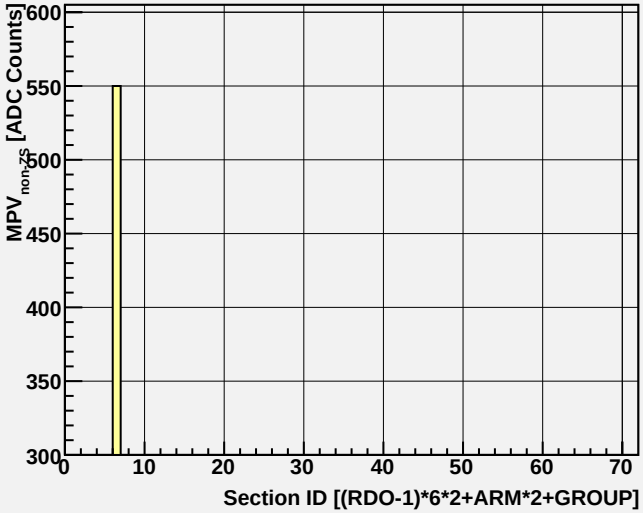

IST - Number of Time Bins
NumberOfTB
Entries 0
Mean 0
RMS 0
No. of Time Bin


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

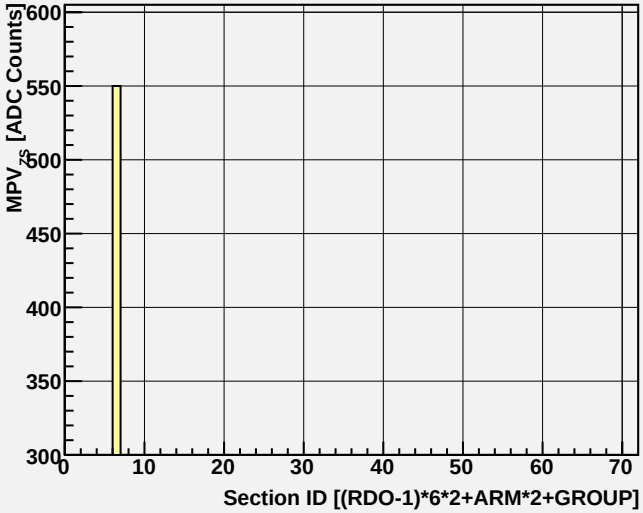

IST - Max ADC Time Bin (non-ZS)
MaxTimeBin_nonZS
Entries 0
Mean 0
RMS 0
Time Bin Index


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

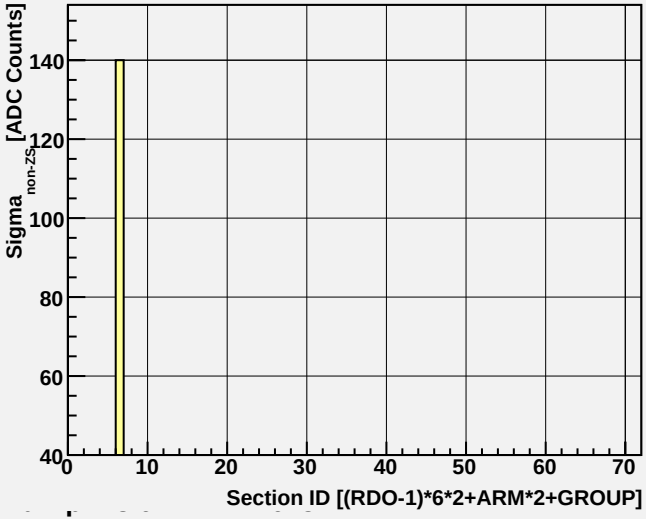
IST - MPV vs Section Id (non-ZS)



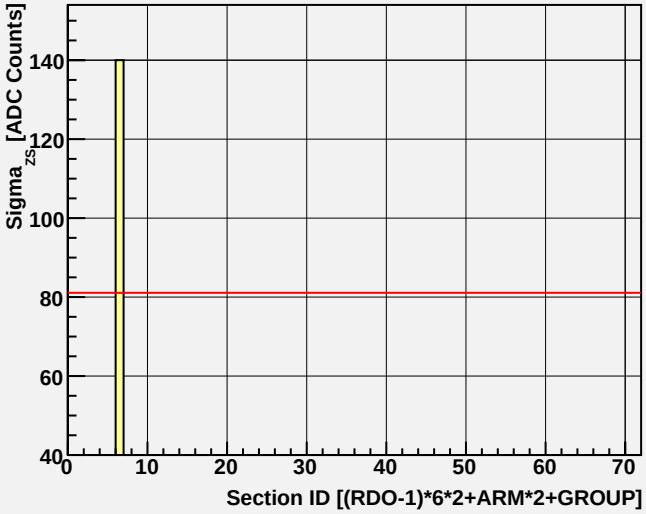
IST - MPV vs Section Id (ZS)

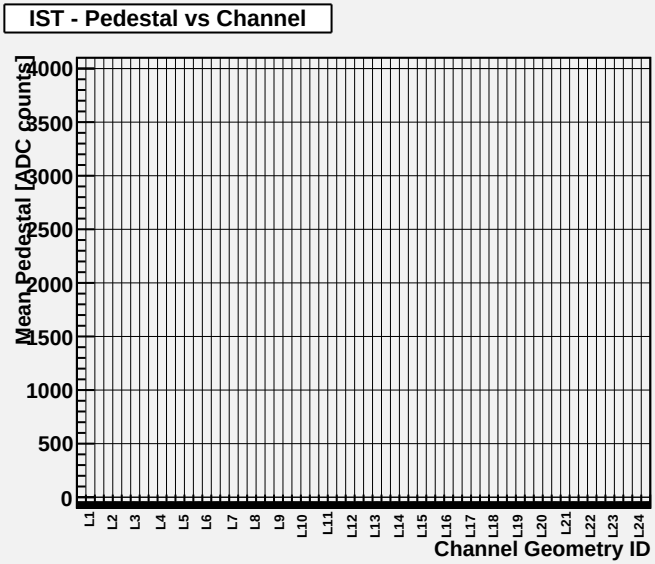


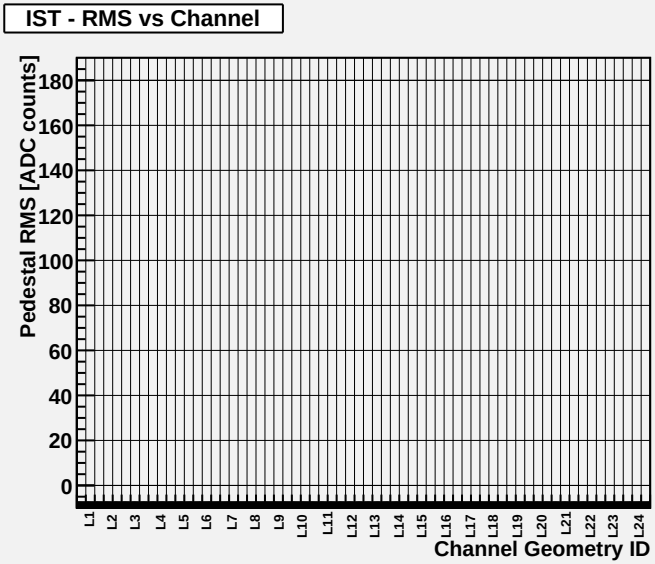
IST - Sigma vs Section Id (non-ZS)

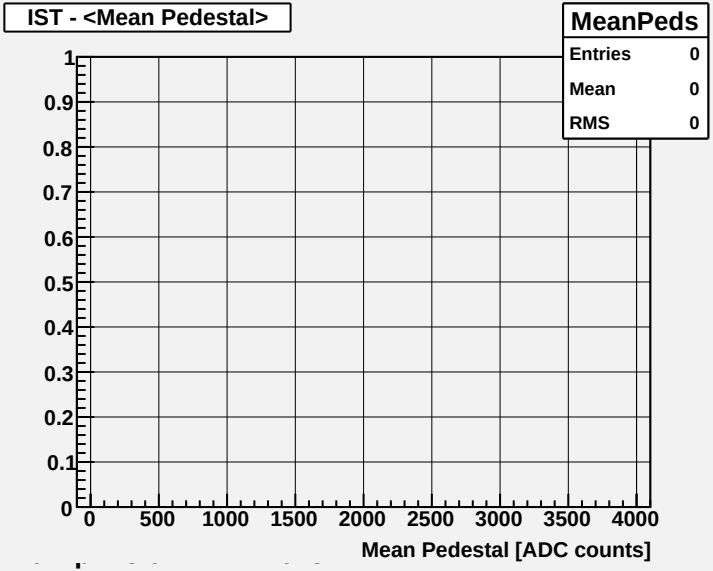


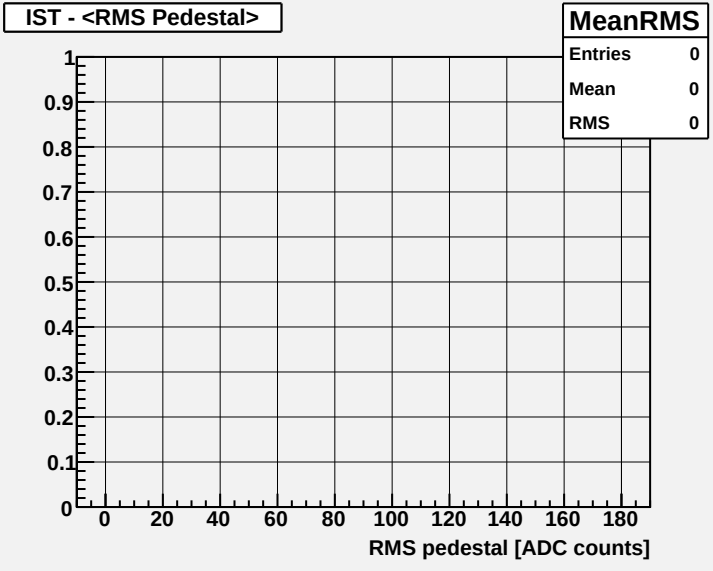
IST - Sigma vs Section Id (ZS)



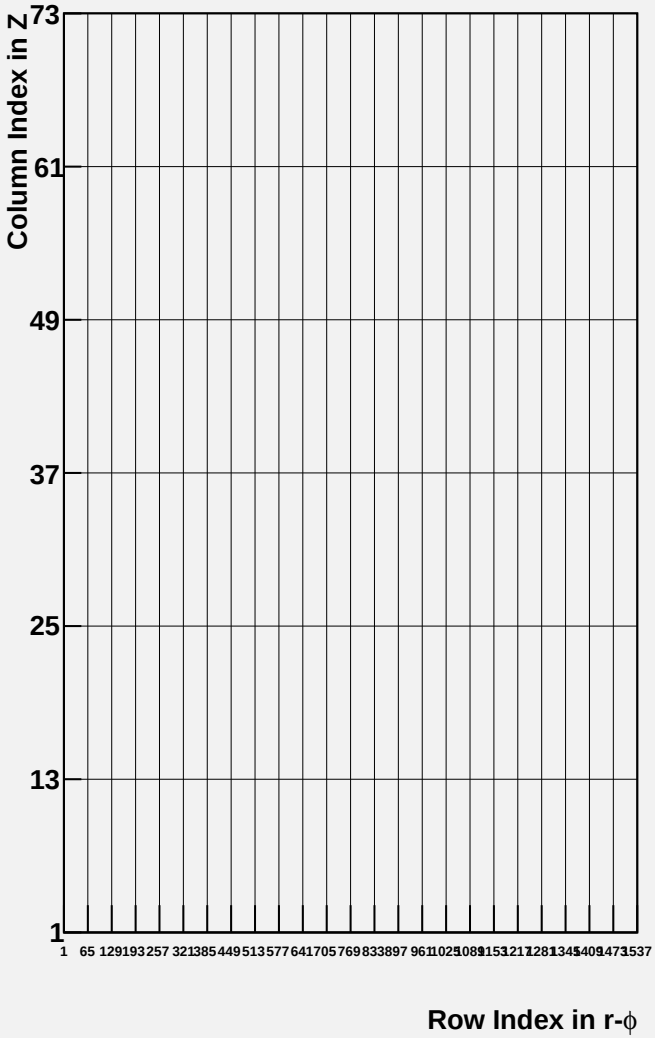

IST - Pedestal vs Channel
Mean Pedestal [ADC counts]
4000
3500
3000
2500
2000
1500
1000
500
0
L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24
Channel Geometry ID


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

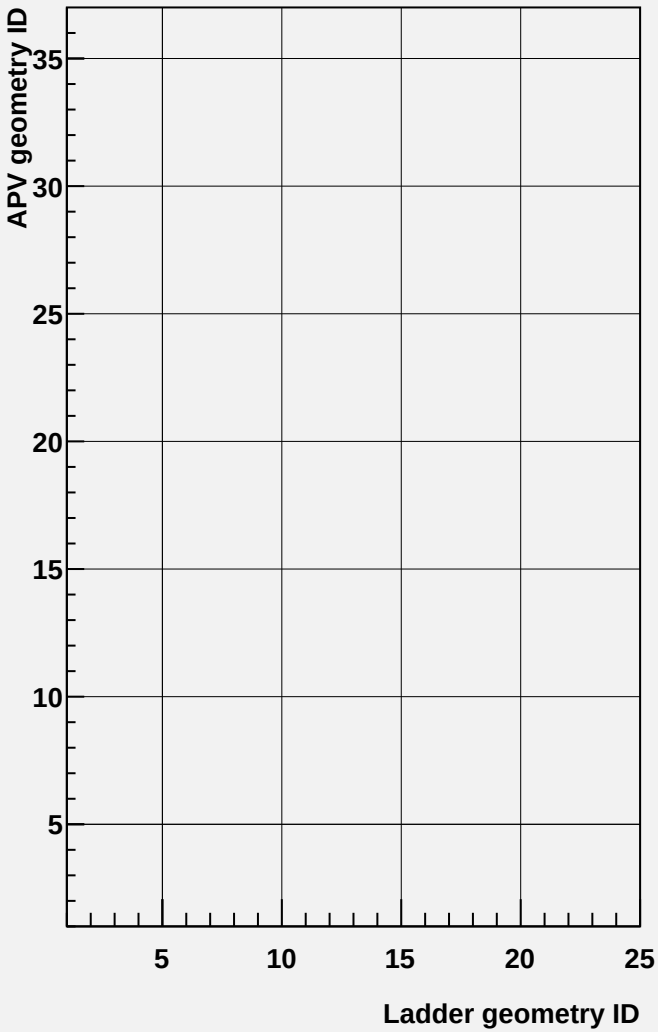

IST - <Mean Pedestal>
MeanPeds
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 500 1000 1500 2000 2500 3000 3500 4000
Mean Pedestal [ADC counts]


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]

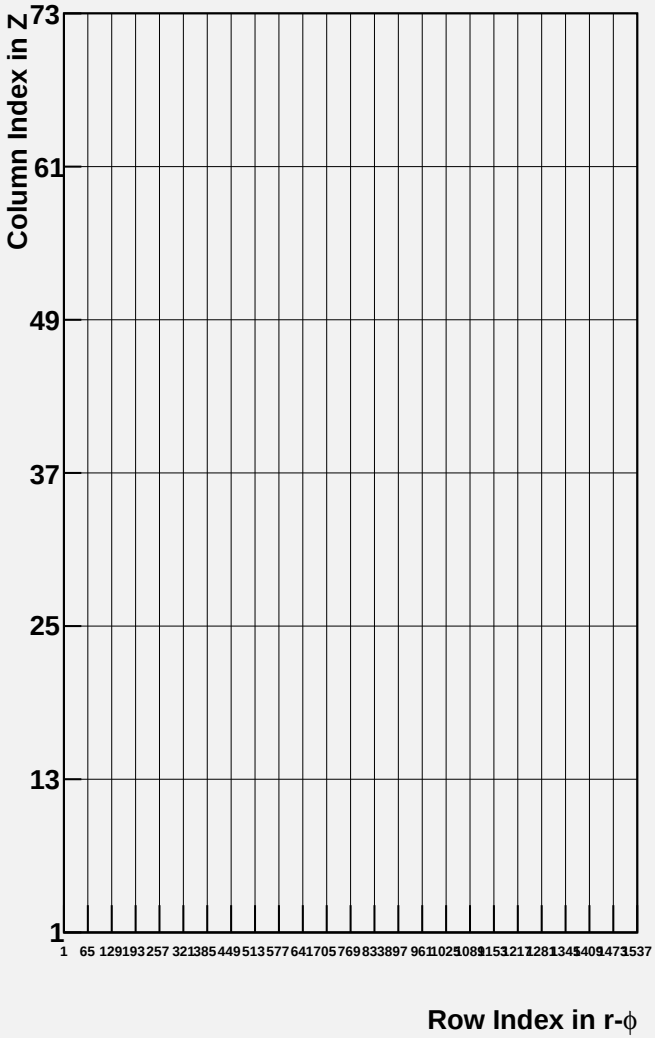
IST - Hit map (non-ZS)



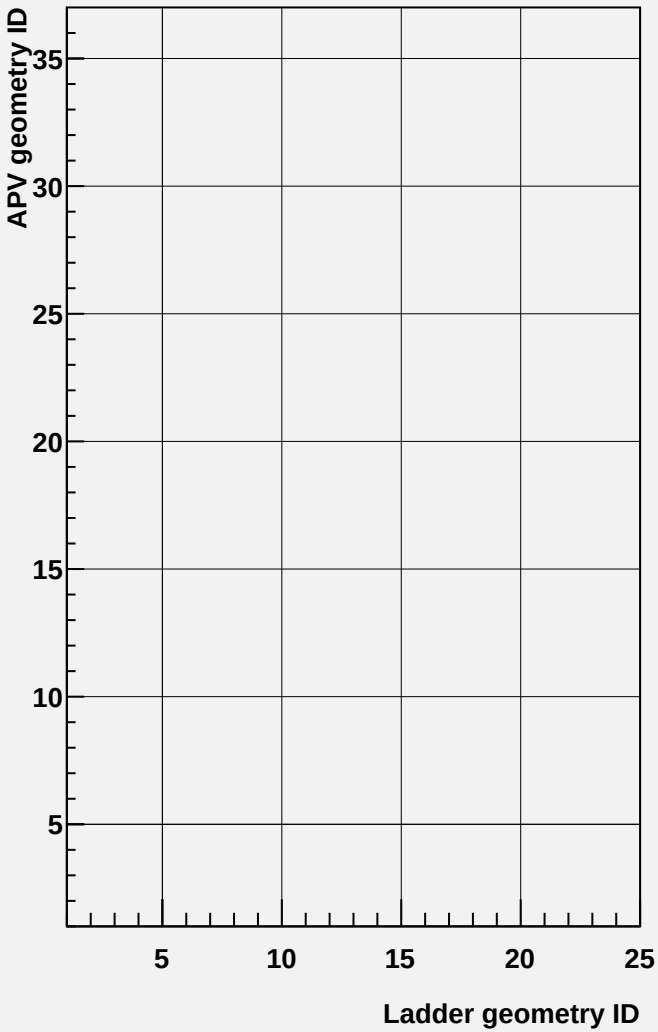
IST - Hit map in Ladder vs APV (non-ZS)



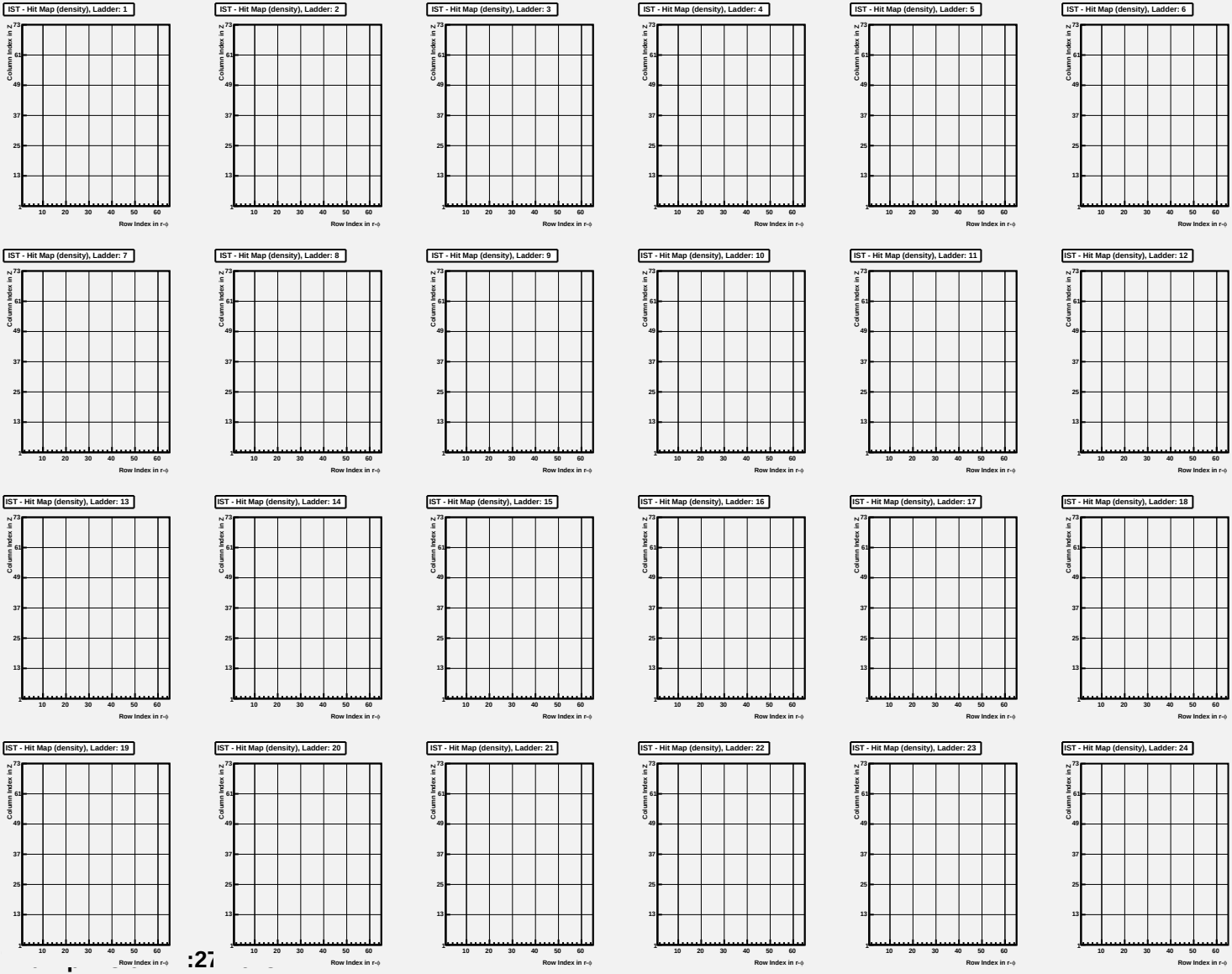
IST - Hit map (ZS)

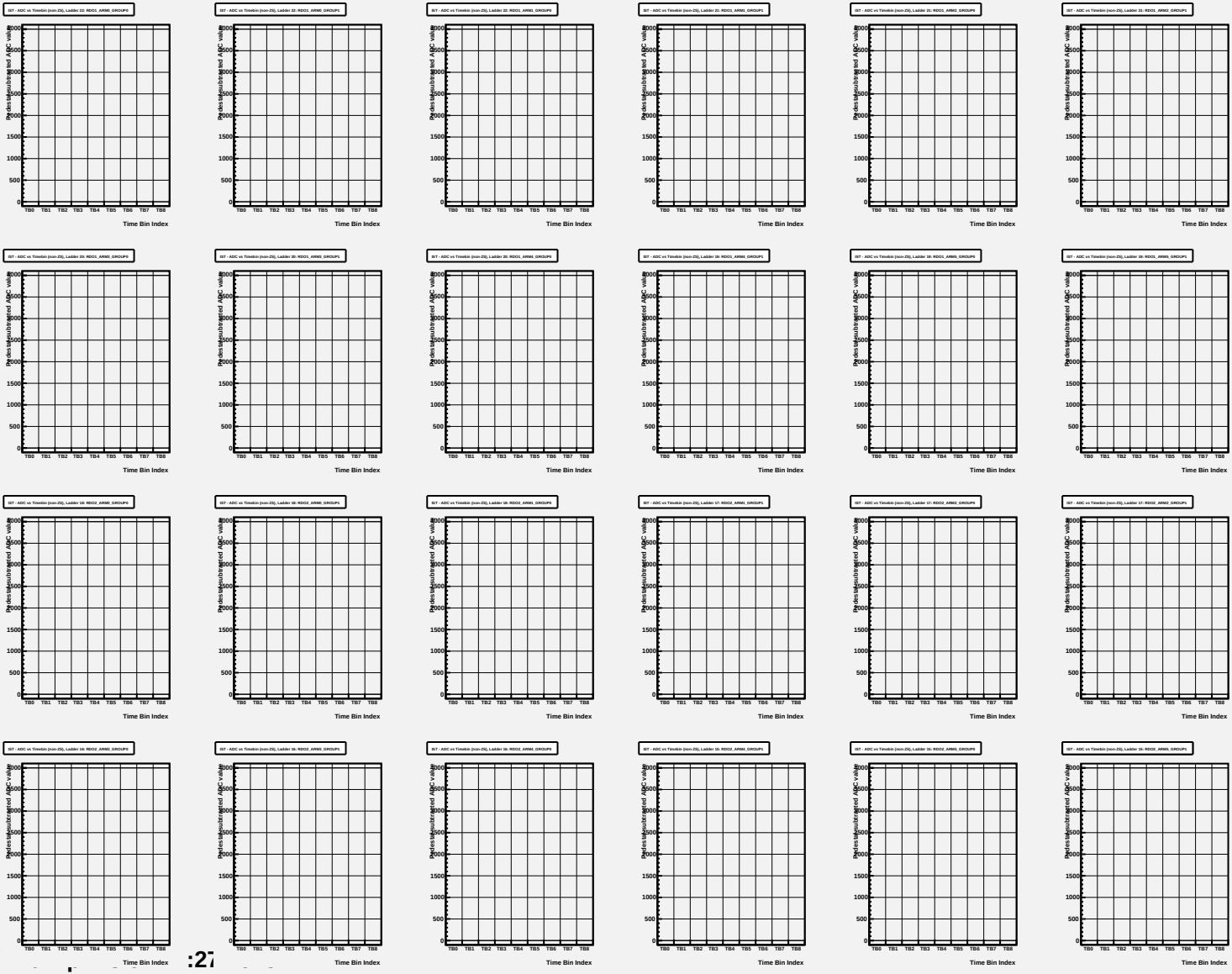


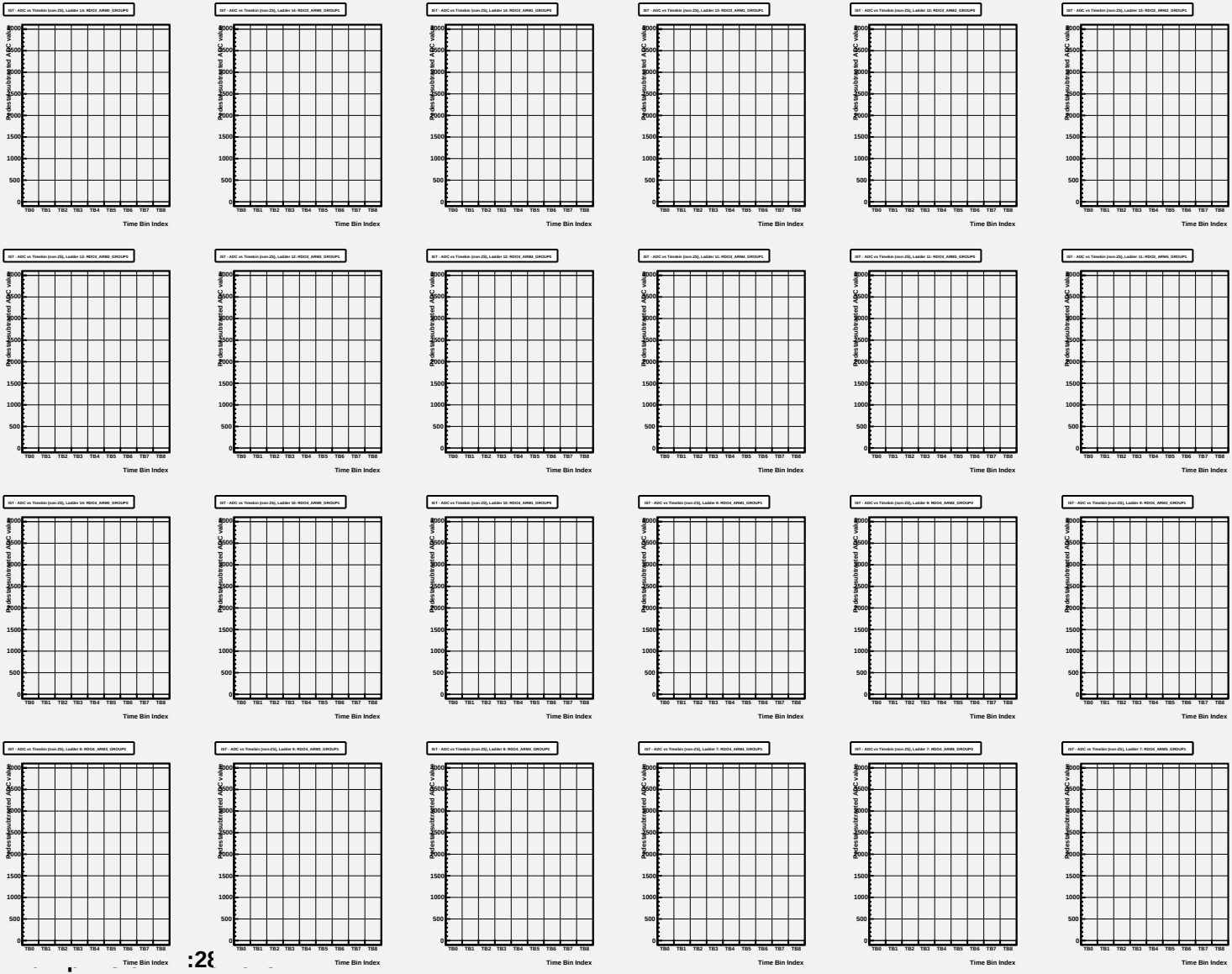
IST - Hit map in Ladder vs APV (ZS)

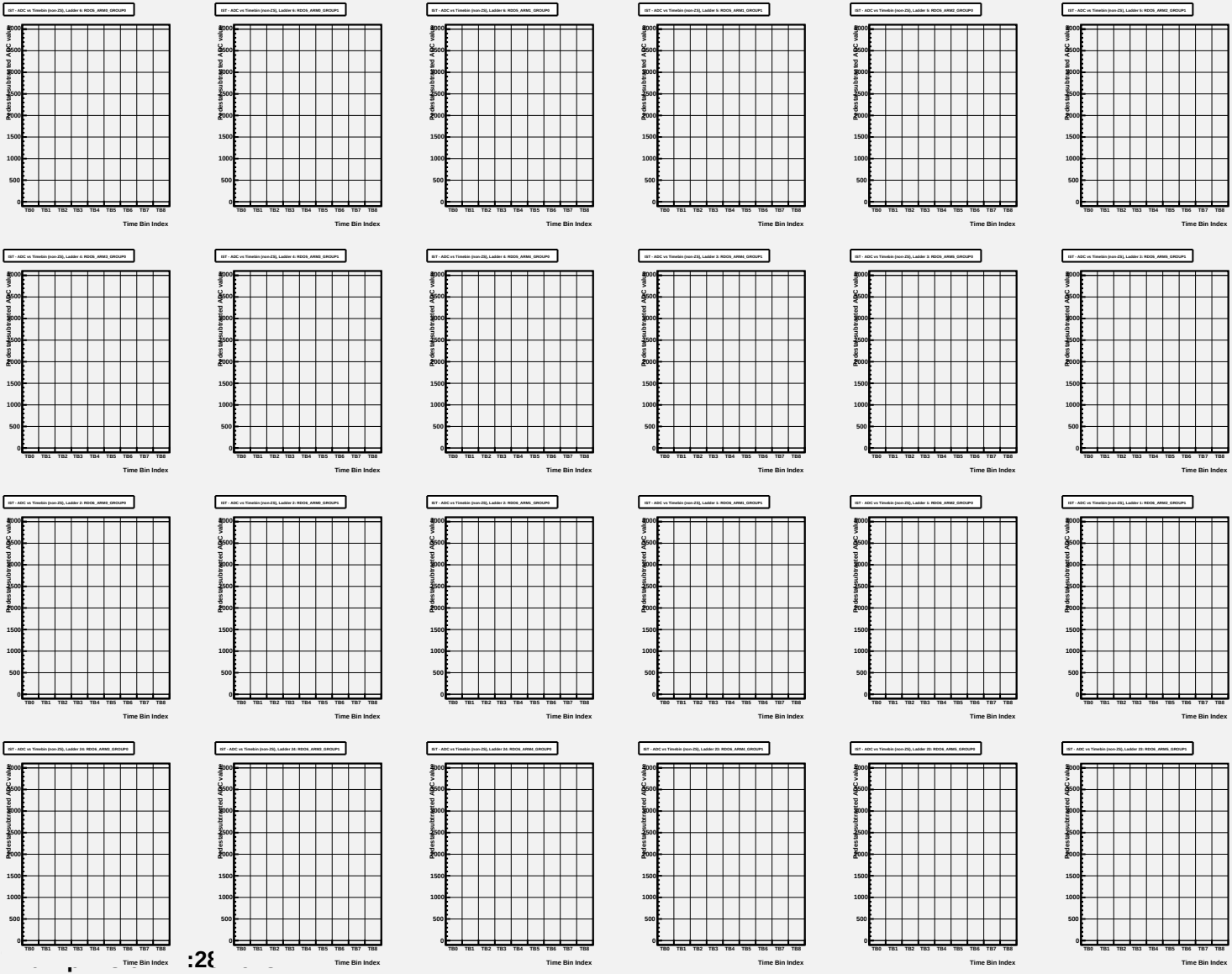


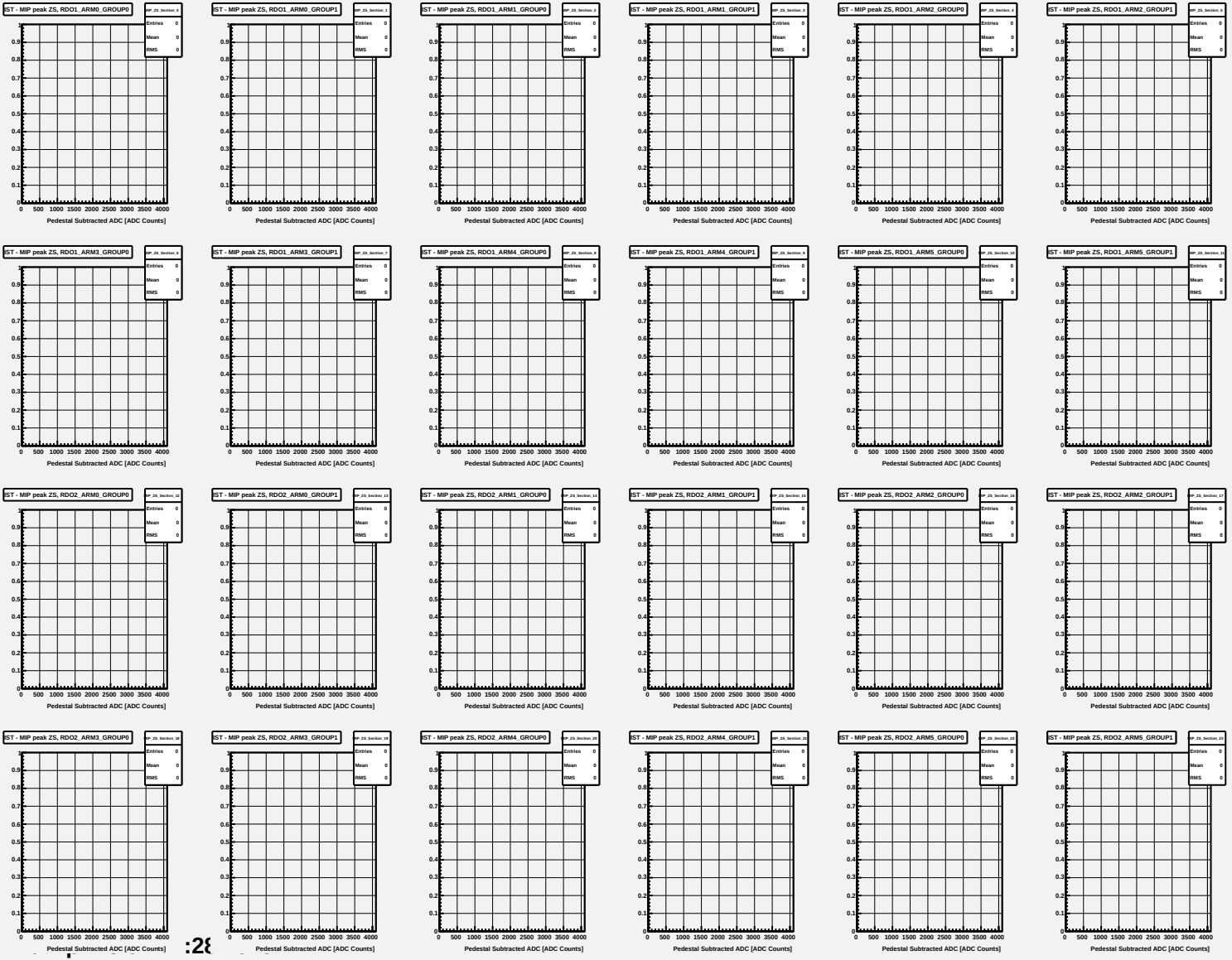
IST - ADC vs Channel Id, Ladder: 1
IST - ADC vs Channel Id, Ladder: 2
IST - ADC vs Channel Id, Ladder: 3
IST - ADC vs Channel Id, Ladder: 4
IST - ADC vs Channel Id, Ladder: 5
IST - ADC vs Channel Id, Ladder: 6
IST - ADC vs Channel Id, Ladder: 7
IST - ADC vs Channel Id, Ladder: 8
IST - ADC vs Channel 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

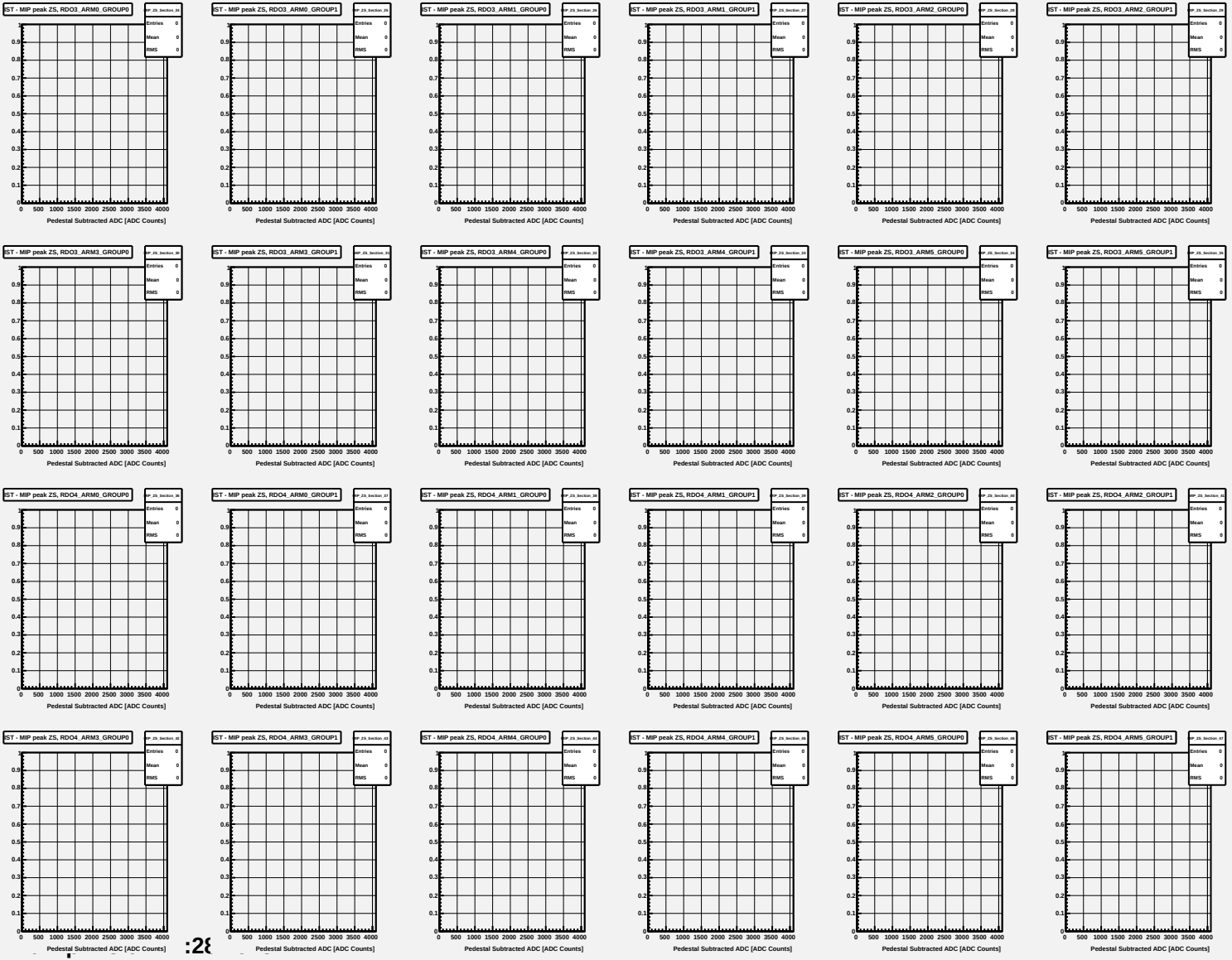

IST - Hit Map (density), Ladder: 1
IST - Hit Map (density), Ladder: 2
IST - Hit Map (density), Ladder: 3
IST - Hit Map (density), Ladder: 4
IST - Hit Map (density), Ladder: 5
IST - Hit Map (density), Ladder: 6
IST - Hit Map (density), Ladder: 7
IST - Hit Map (density), Ladder: 8
IST - Hit Map (density), 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

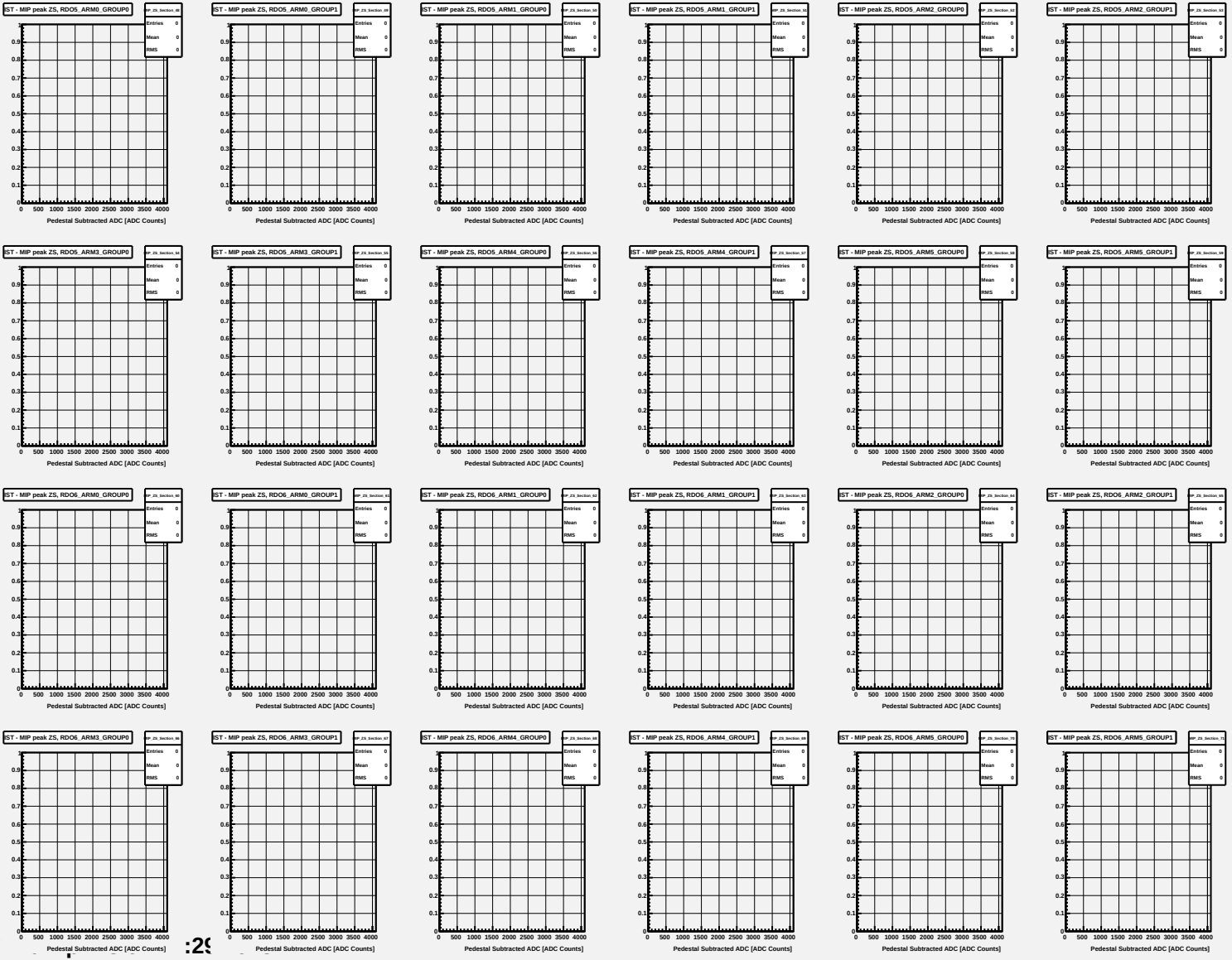

RIT - ADC vs Timestim (non-ZS), Ladder 22: RDO1_ARM0_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 22: RDO1_ARM0_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 22: RDO1_ARM1_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 21: RDO1_ARM1_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 21: RDO1_ARM2_GROUP0
RIT - 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: RDO2_ARM4_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 19: RDO2_ARM4_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 19: RDO2_ARM5_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 19: RDO2_ARM5_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 18: RDO2_ARM6_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 18: RDO2_ARM6_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 18: RDO2_ARM7_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 17: RDO2_ARM7_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 16: RDO2_ARM4_GROUP1
RIT - ADC vs Timestim (non-ZS), Ladder 16: RDO2_ARM5_GROUP0
RIT - ADC vs Timestim (non-ZS), Ladder 16: 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

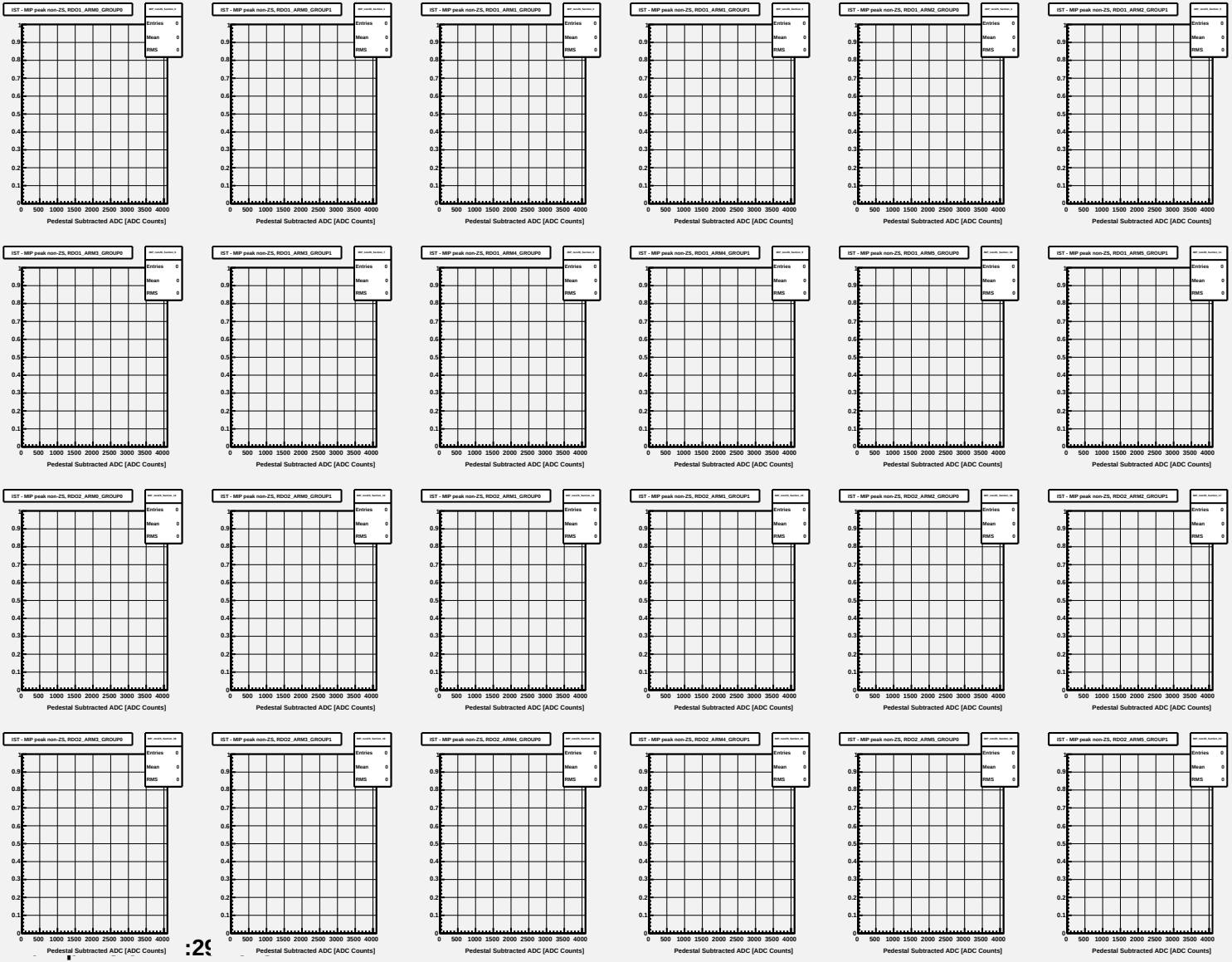

IST - ADC vs Timestim (non-ZS), Ladder 16: RDO3_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM0_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM1_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM2_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM2_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 12: RDO3_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 12: RDO3_ARM0_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 12: RDO3_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO3_ARM1_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO3_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO3_ARM0_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM0_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM1_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM2_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM2_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO4_ARM3_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO4_ARM3_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO4_ARM4_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO4_ARM4_GROUP5
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO4_ARM5_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO4_ARM5_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 4000

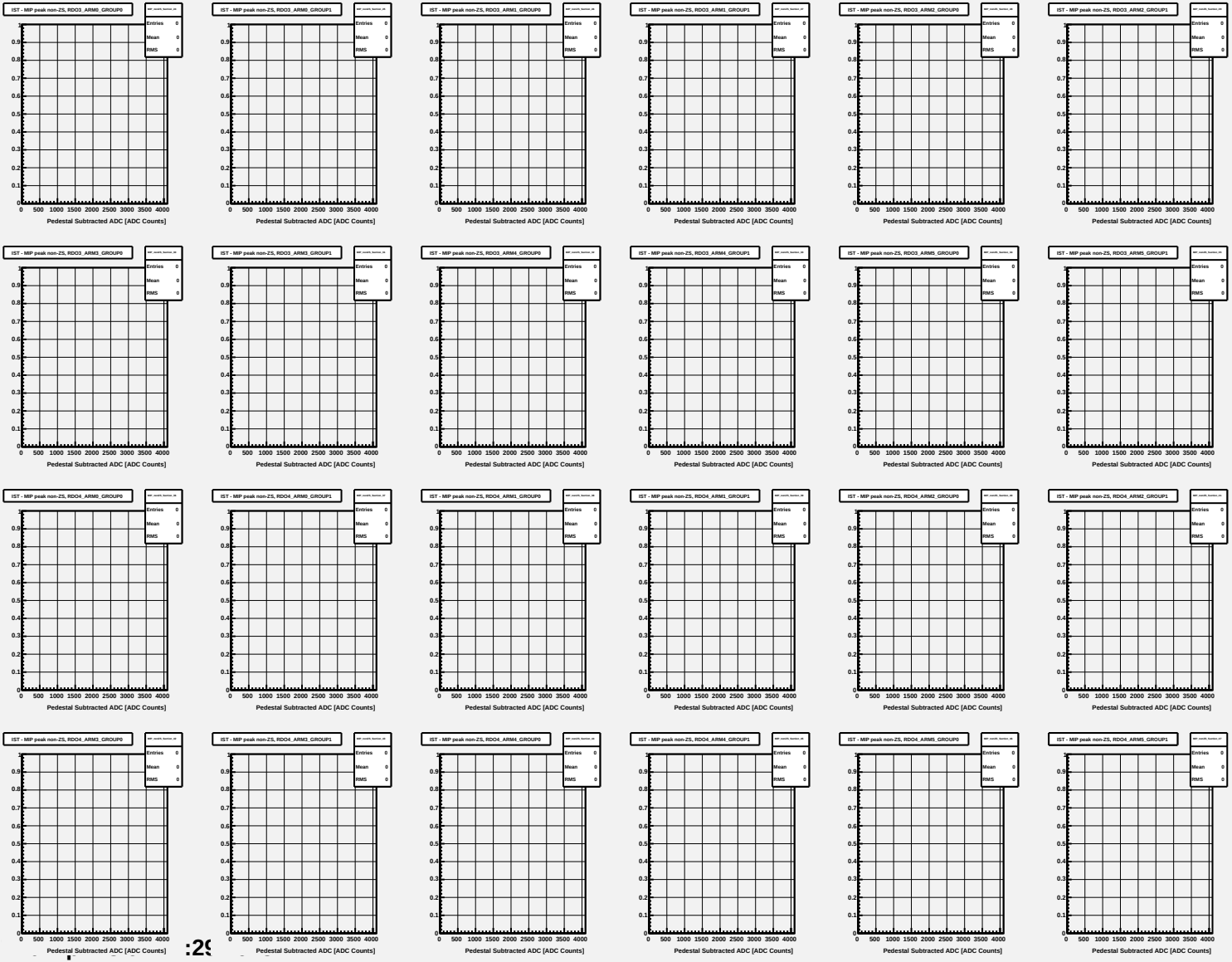

IST : ADC vs Timebin (non-ZS), Ladder 6: RDO6_ARM0_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 6: RDO6_ARM0_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 6: RDO6_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM1_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM2_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM3_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO4_ARM0_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO3_ARM1_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO3_ARM0_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO3_ARM0_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO3_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO3_ARM3_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO3_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO1_ARM1_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO1_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO1_ARM2_GROUP5
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO5_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: RDO5_ARM0_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO5_ARM0_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

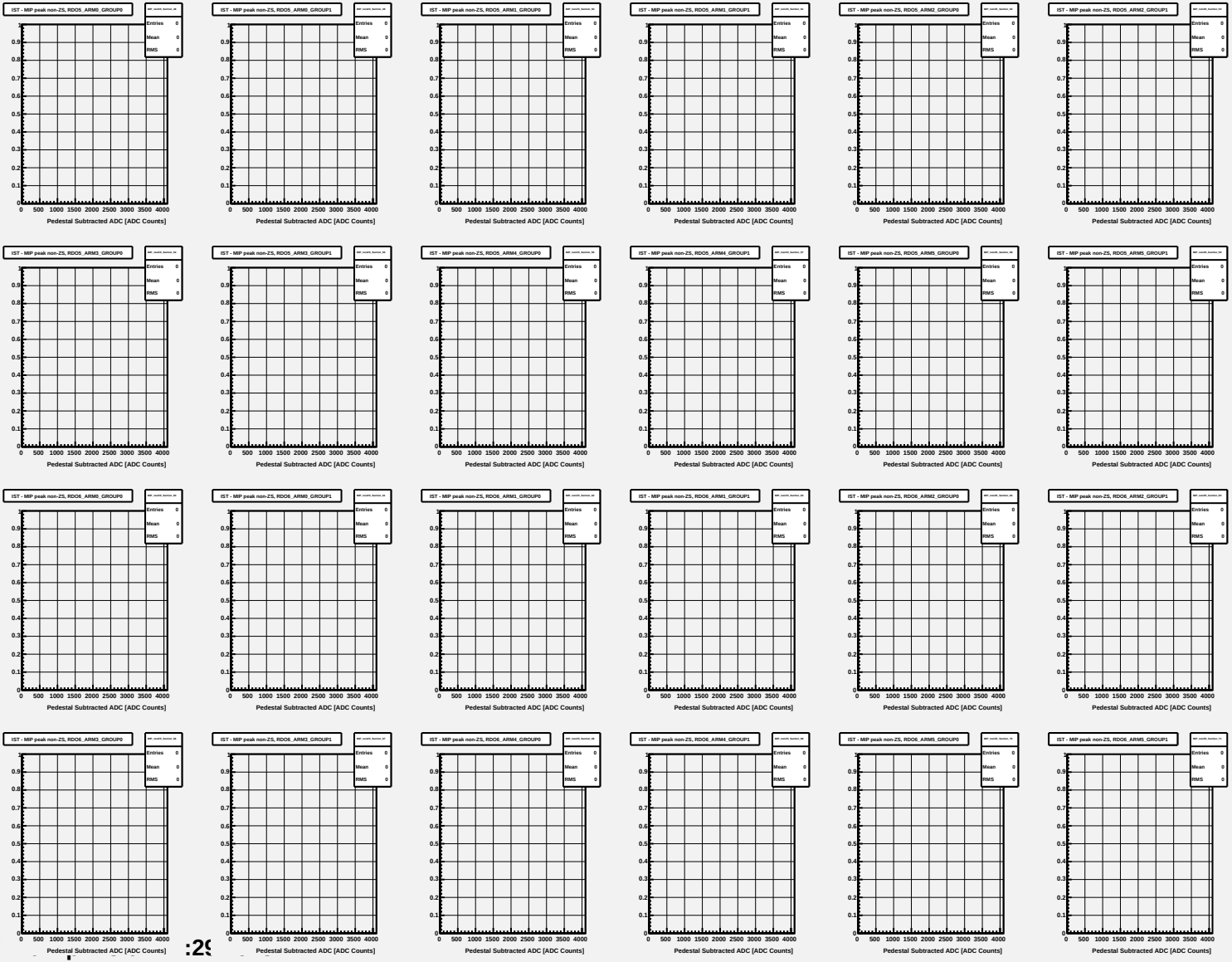

IST - MIP peak ZS, RDO1_ARM0_GROUP0
MIP_ZS_Section_0
IST - MIP peak ZS, RDO1_ARM0_GROUP1
MIP_ZS_Section_1
IST - MIP peak ZS, RDO1_ARM1_GROUP0
MIP_ZS_Section_2
IST - MIP peak ZS, RDO1_ARM1_GROUP1
MIP_ZS_Section_3
IST - MIP peak ZS, RDO1_ARM2_GROUP0
MIP_ZS_Section_4
IST - MIP peak ZS, RDO1_ARM2_GROUP1
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]

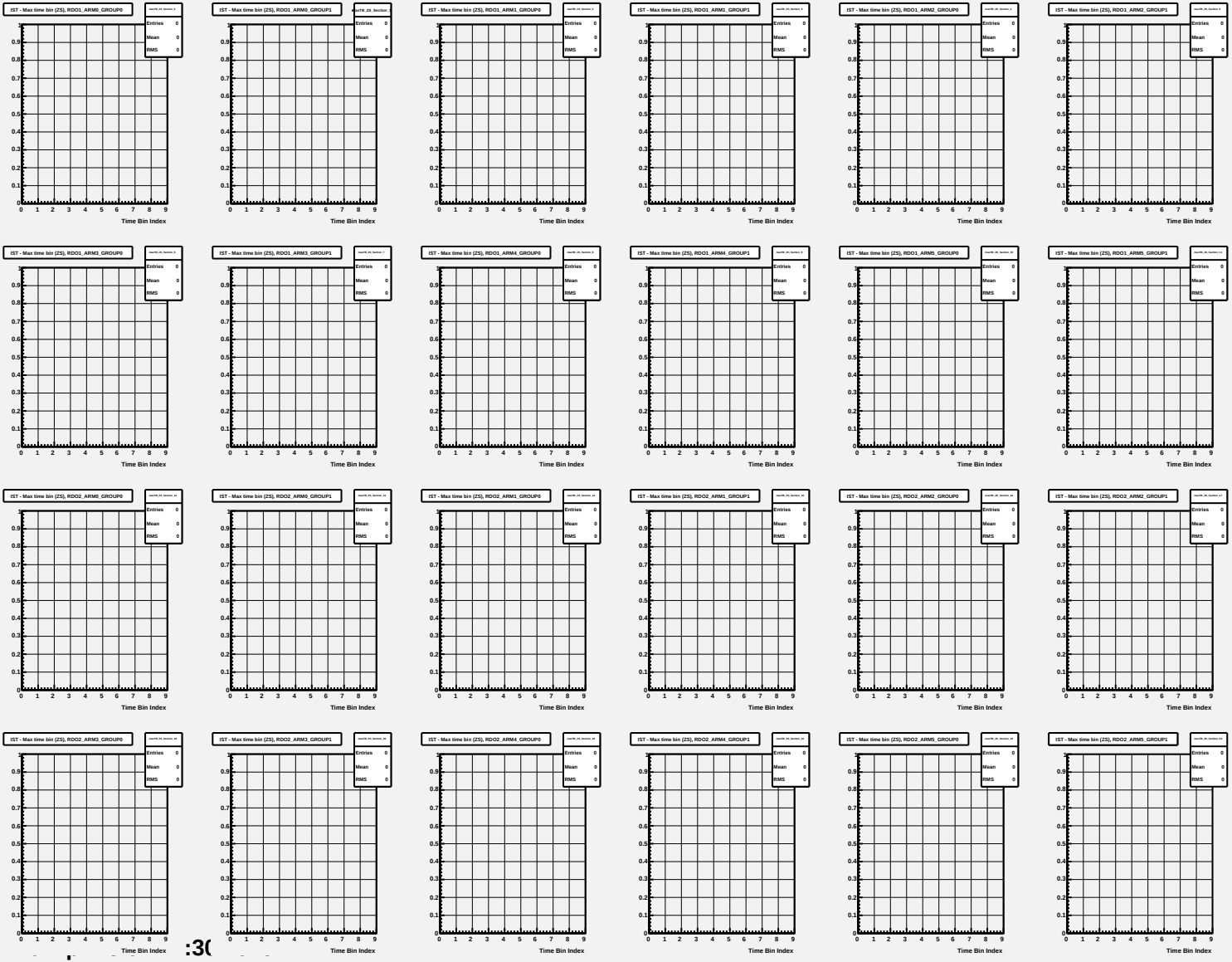

IST - MIP peak ZS, RDO3_ARM0_GROUP0
IST - MIP peak ZS, RDO3_ARM0_GROUP1
IST - MIP peak ZS, RDO3_ARM1_GROUP0
IST - MIP peak ZS, RDO3_ARM1_GROUP1
IST - MIP peak ZS, RDO3_ARM2_GROUP0
IST - MIP peak ZS, RDO3_ARM2_GROUP1
IST - MIP peak ZS, RDO3_ARM3_GROUP0
IST - MIP peak ZS, RDO3_ARM3_GROUP1
IST - MIP peak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

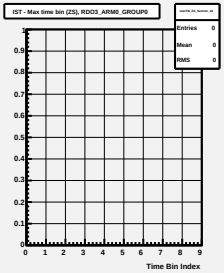

IST - MIP peak ZS, RDO5_ARM0_GROUP0
IST - MIP peak ZS, RDO5_ARM0_GROUP1
IST - MIP peak ZS, RDO5_ARM1_GROUP0
IST - MIP peak ZS, RDO5_ARM1_GROUP1
IST - MIP peak ZS, RDO5_ARM2_GROUP0
IST - MIP peak ZS, RDO5_ARM2_GROUP1
IST - MIP peak ZS, RDO5_ARM3_GROUP0
IST - MIP peak ZS, RDO5_ARM3_GROUP1
IST - MIP peak 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]

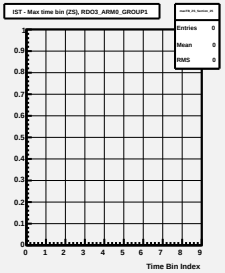

IST - MIP peak non-ZS, RDO1_ARM0_GROUP0
IST - MIP peak non-ZS, RDO1_ARM0_GROUP1
IST - MIP peak non-ZS, RDO1_ARM1_GROUP0
IST - MIP peak non-ZS, RDO1_ARM1_GROUP1
IST - MIP peak non-ZS, RDO1_ARM2_GROUP0
IST - MIP peak non-ZS, RDO1_ARM2_GROUP1
IST - MIP peak non-ZS, RDO1_ARM3_GROUP0
IST - MIP peak non-ZS, 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]

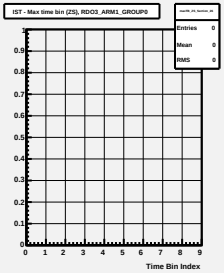

IST - MIP peak non-ZS, RDO3_ARM0_GROUP0
IST - MIP peak non-ZS, RDO3_ARM0_GROUP1
IST - MIP peak non-ZS, RDO3_ARM1_GROUP0
IST - MIP peak non-ZS, RDO3_ARM1_GROUP1
IST - MIP peak non-ZS, RDO3_ARM2_GROUP0
IST - MIP peak non-ZS, RDO3_ARM2_GROUP1
IST - MIP peak non-ZS, RDO3_ARM3_GROUP0
IST - MIP peak non-ZS, 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]

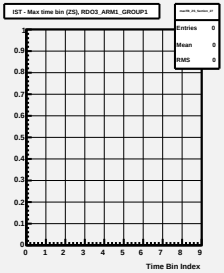

IST - MIP peak non-ZS, RD05_ARM0_GROUP0
IST - MIP peak non-ZS, RD05_ARM0_GROUP1
IST - MIP peak non-ZS, RD05_ARM1_GROUP0
IST - MIP peak non-ZS, RD05_ARM1_GROUP1
IST - MIP peak non-ZS, RD05_ARM2_GROUP0
IST - MIP peak non-ZS, RD05_ARM2_GROUP1
IST - MIP peak non-ZS, RD05_ARM3_GROUP0
IST - MIP peak non-ZS, 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]

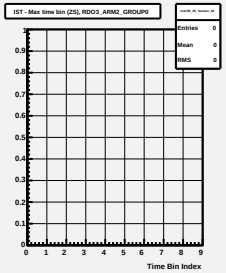

IST - Max time bin (ZS), RDO1_ARM0_GROUP0
IST - Max time bin (ZS), RDO1_ARM0_GROUP1
IST - Max time bin (ZS), RDO1_ARM1_GROUP0
IST - Max time bin (ZS), RDO1_ARM1_GROUP1
IST - Max time bin (ZS), RDO1_ARM2_GROUP0
IST - Max time bin (ZS), RDO1_ARM2_GROUP1
IST - Max time bin (ZS), RDO1_ARM3_GROUP0
IST - Max time bin (ZS), RDO1_ARM3_GROUP1
IST - Max time bin (ZS), RDO1_ARM4_GROUP0
IST - Max time bin (ZS), RDO1_ARM4_GROUP1
IST - Max time bin (ZS), RDO1_ARM5_GROUP0
IST - Max time bin (ZS), RDO1_ARM5_GROUP1
IST - Max time bin (ZS), RDO2_ARM0_GROUP0
IST - Max time bin (ZS), RDO2_ARM0_GROUP1
IST - Max time bin (ZS), RDO2_ARM1_GROUP0
IST - Max time bin (ZS), RDO2_ARM1_GROUP1
IST - Max time bin (ZS), RDO2_ARM2_GROUP0
IST - Max time bin (ZS), RDO2_ARM2_GROUP1
IST - Max time bin (ZS), RDO2_ARM3_GROUP0
IST - Max time bin (ZS), RDO2_ARM3_GROUP1
IST - Max time bin (ZS), RDO2_ARM4_GROUP0
IST - Max time bin (ZS), RDO2_ARM4_GROUP1
IST - Max time bin (ZS), RDO2_ARM5_GROUP0
IST - Max time bin (ZS), RDO2_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

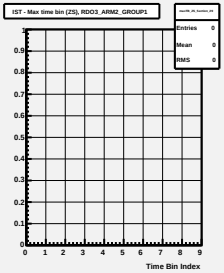

IST - Max time bin (ZS), RDO3_ARM0_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

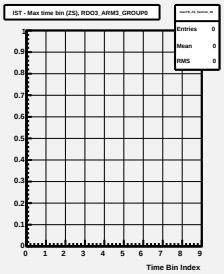

IST - Max time bin (ZS), RDO3_ARM0_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

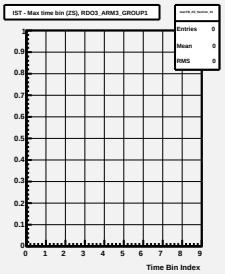

IST - Max time bin (ZS), RDO3_ARM1_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

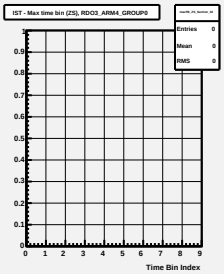

IST - Max time bin (ZS), RDO3_ARM1_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

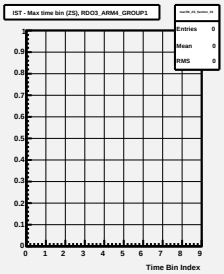

IST - Max time bin (ZS), RDO3_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

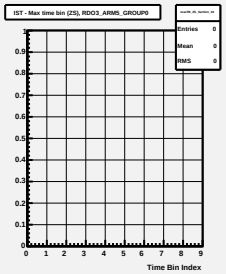

IST - Max time bin (ZS), RDO3_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

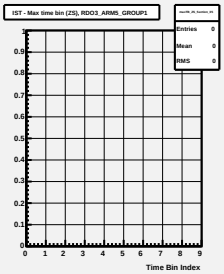

IST - Max time bin (ZS), RDO3_ARM3_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

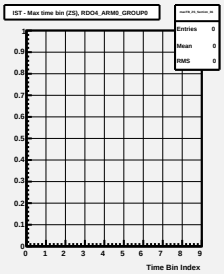

IST - Max time bin (ZS), RDO3_ARM3_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

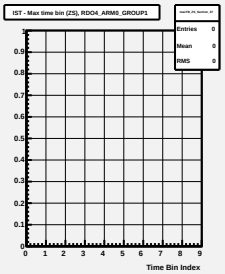

IST - Max time bin (ZS), RDO3_ARM4_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

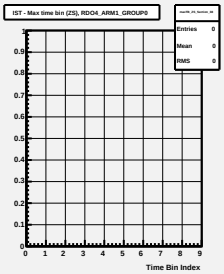

IST - Max time bin (ZS), RDO3_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

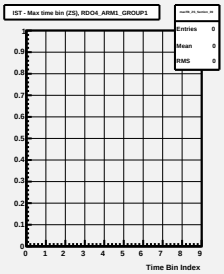

IST - Max time bin (ZS), RDO3_ARM5_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

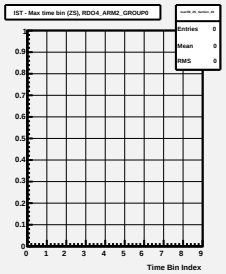

IST - Max time bin (ZS), RDO3_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

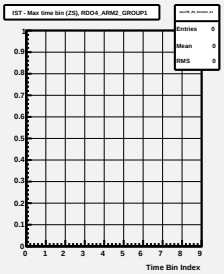

IST - Max time bin (ZS), RDO4_ARM0_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

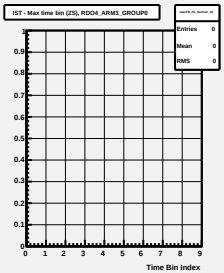

IST - Max time bin (ZS), RDO4_ARM0_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

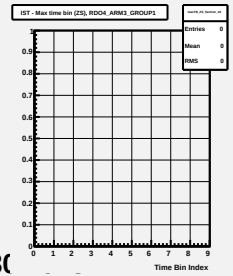

IST - Max time bin (ZS), RDO4_ARM1_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

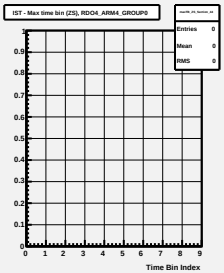

IST - Max time bin (ZS), RDO4_ARM1_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

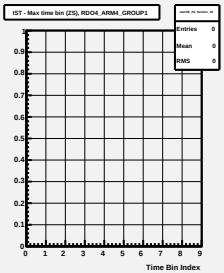

IST - Max time bin (ZS), RDO4_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

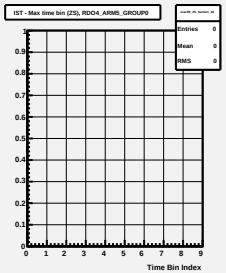

IST - Max time bin (ZS), RDO4_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

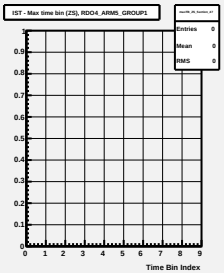

IST - Max time bin (ZS), RDO4_ARM3_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

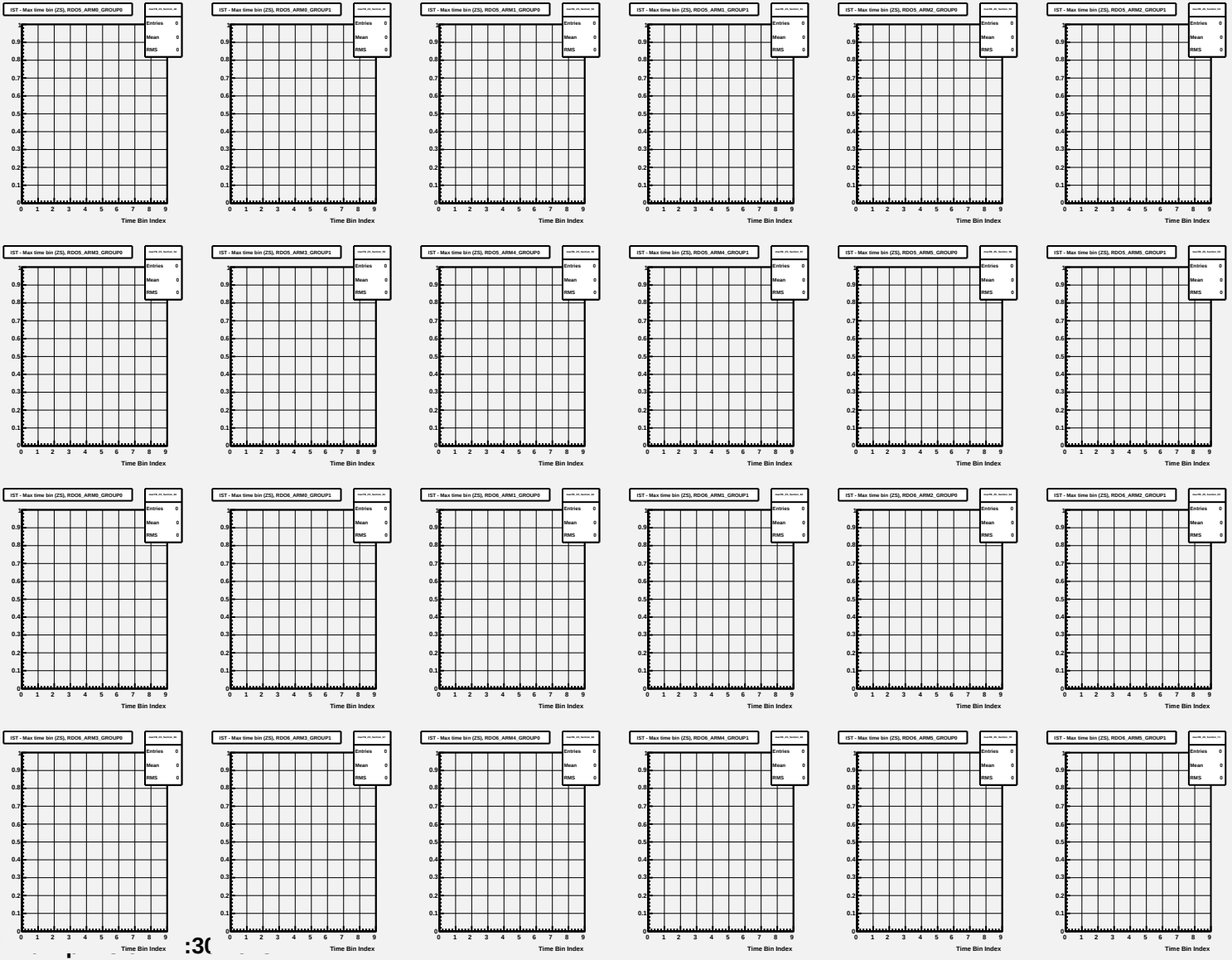

IST - Max time bin (ZS), RDO4_ARM3_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


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

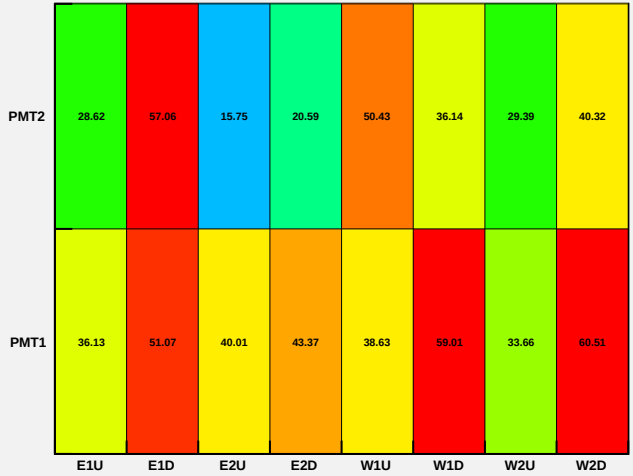

IST - Max time bin (ZS), RDO4_ARM4_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index


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

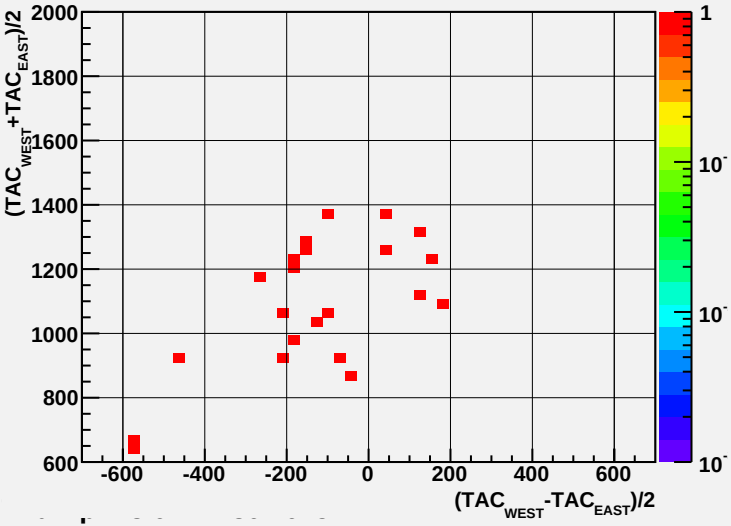

IST - Max time bin (ZS), RDO5_ARM0_GROUP0
IST - Max time bin (ZS), RDO5_ARM0_GROUP1
IST - Max time bin (ZS), RDO5_ARM1_GROUP0
IST - Max time bin (ZS), RDO5_ARM1_GROUP1
IST - Max time bin (ZS), RDO5_ARM2_GROUP0
IST - Max time bin (ZS), RDO5_ARM2_GROUP1
IST - Max time bin (ZS), RDO5_ARM3_GROUP0
IST - Max time bin (ZS), RDO5_ARM3_GROUP1
IST - Max time bin (ZS), RDO5_ARM4_GROUP0
IST - Max time bin (ZS), RDO5_ARM4_GROUP1
IST - Max time bin (ZS), RDO5_ARM5_GROUP0
IST - Max time bin (ZS), RDO5_ARM5_GROUP1
IST - Max time bin (ZS), RDO6_ARM0_GROUP0
IST - Max time bin (ZS), RDO6_ARM0_GROUP1
IST - Max time bin (ZS), RDO6_ARM1_GROUP0
IST - Max time bin (ZS), RDO6_ARM1_GROUP1
IST - Max time bin (ZS), RDO6_ARM2_GROUP0
IST - Max time bin (ZS), RDO6_ARM2_GROUP1
IST - Max time bin (ZS), RDO6_ARM3_GROUP0
IST - Max time bin (ZS), RDO6_ARM3_GROUP1
IST - Max time bin (ZS), RDO6_ARM4_GROUP0
IST - Max time bin (ZS), RDO6_ARM4_GROUP1
IST - Max time bin (ZS), RDO6_ARM5_GROUP0
IST - Max time bin (ZS), RDO6_ARM5_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index

PMT_STATUS <ADC>

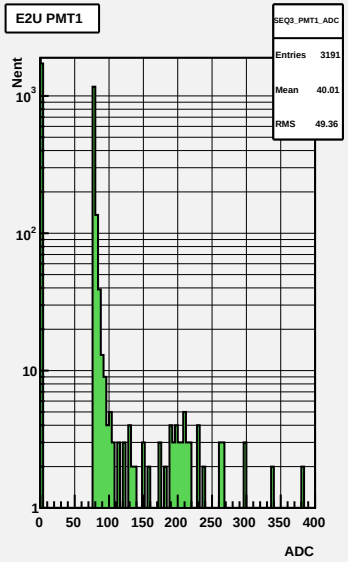


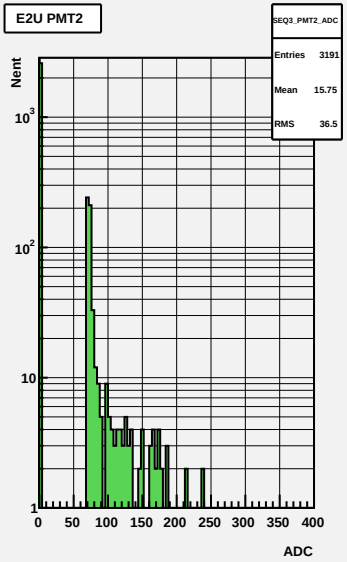
SVX_STATUS <ADC>

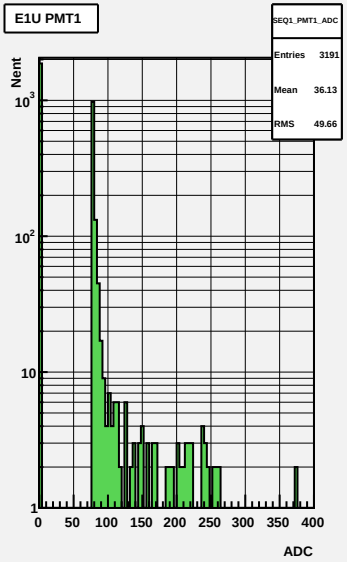
PMT Time vs z-vertex

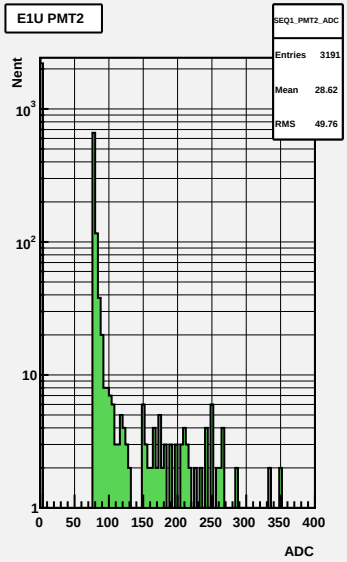


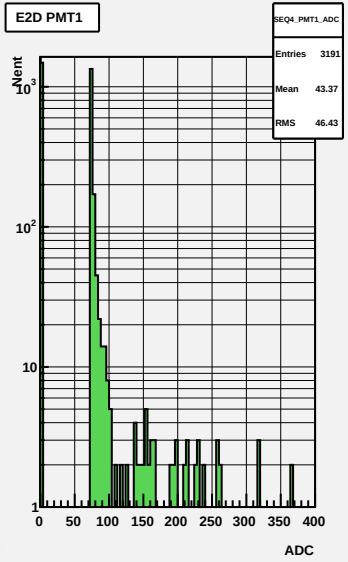
SVX_NCH <average fraction of chnls read>

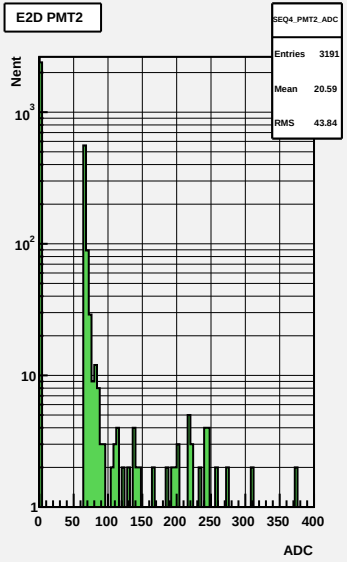

E2U PMT1
SEQ3_PMT1_ADC
Entries 3191
Mean 40.01
RMS 49.36
Nent
ADC

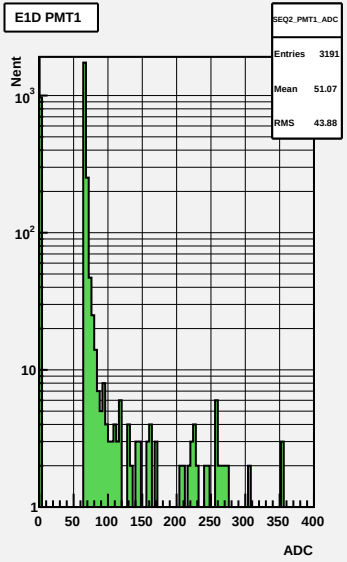

E2U PMT2
SEQ3_PMT2_ADC
Entries 3191
Mean 15.75
RMS 36.5
Nent
ADC

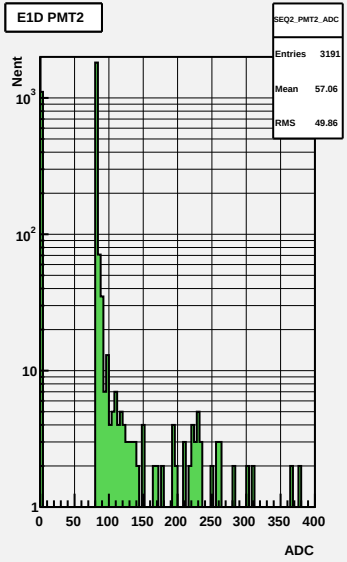

E1U PMT1
SEQ1_PMT1_ADC
Entries 3191
Mean 36.13
RMS 49.66
Nent
ADC

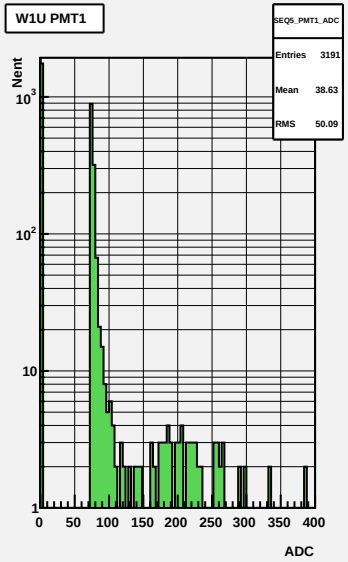

E1U PMT2
SEQ1_PMT2_ADC
Entries 3191
Mean 28.62
RMS 49.76
Nent
ADC

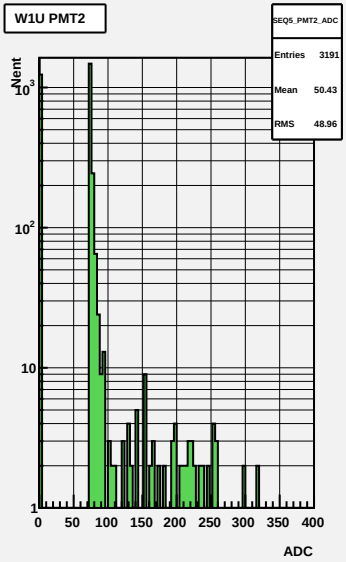

E2D PMT1
SEQ4_PMT1_ADC
Entries 3191
Mean 43.37
RMS 46.43
Nent
ADC

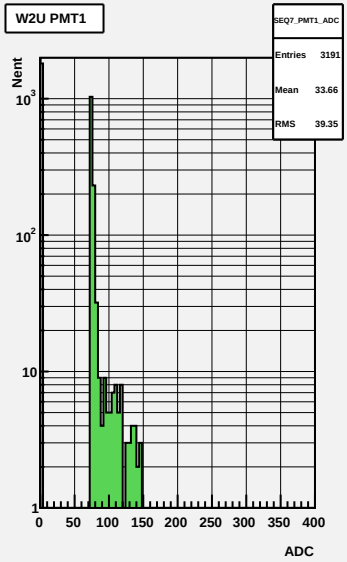

E2D PMT2
SEQ4_PMT2_ADC
Entries 3191
Mean 20.59
RMS 43.84
Nent
ADC

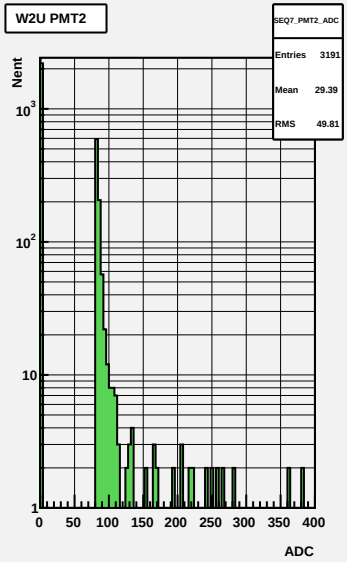

E1D PMT1
SEQ2_PMT1_ADC
Entries 3191
Mean 51.07
RMS 43.88
Nent
ADC

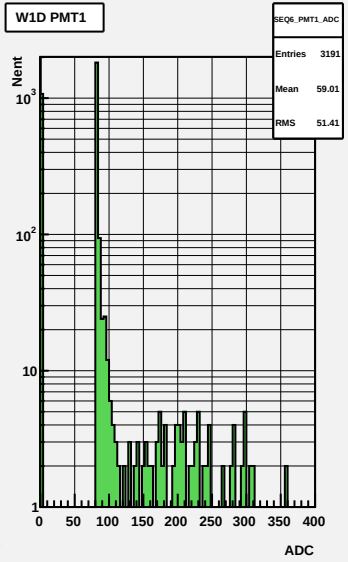

E1D PMT2
SEQ2_PMT2_ADC
Entries 3191
Mean 57.06
RMS 49.86
Nent
ADC


W1U PMT1
SEQ5_PMT1_ADC
Entries 3191
Mean 38.63
RMS 50.09
Nent
ADC


W1U PMT2
SEQ5_PMT2_ADC
Entries 3191
Mean 50.43
RMS 48.96
Nent
ADC


W2U PMT1
SEQ7_PMT1_ADC
Entries 3191
Mean 33.66
RMS 39.35
Nent
ADC


W2U PMT2
SEQ7_PMT2_ADC
Entries 3191
Mean 29.39
RMS 49.81
Nent
ADC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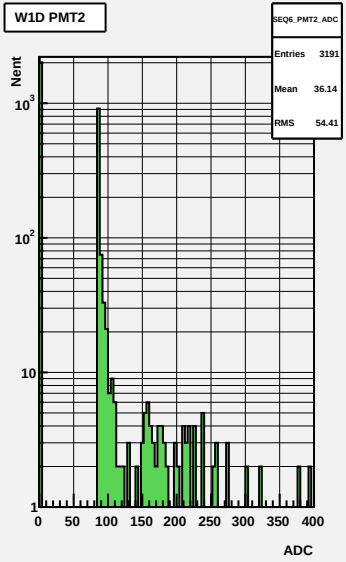
SEQ6_PMT1_ADC
Entries 3191
Mean 59.01
RMS 51.41
Nent
ADC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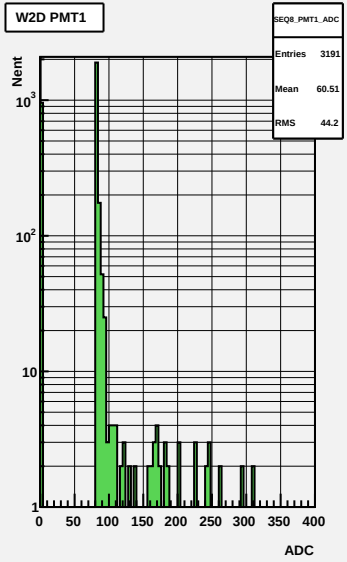
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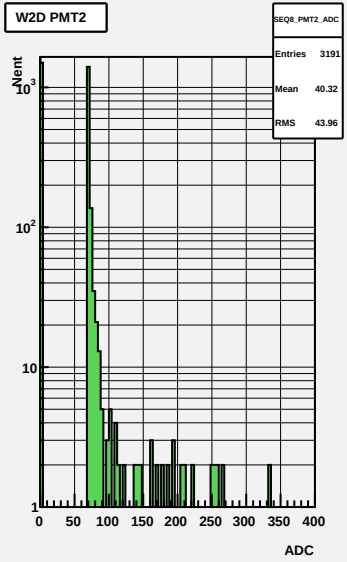
SEQ8_PMT1_ADC
Entries 3191
Mean 60.51
RMS 44.2
Nent
ADC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Mean 40.32
RMS 43.96
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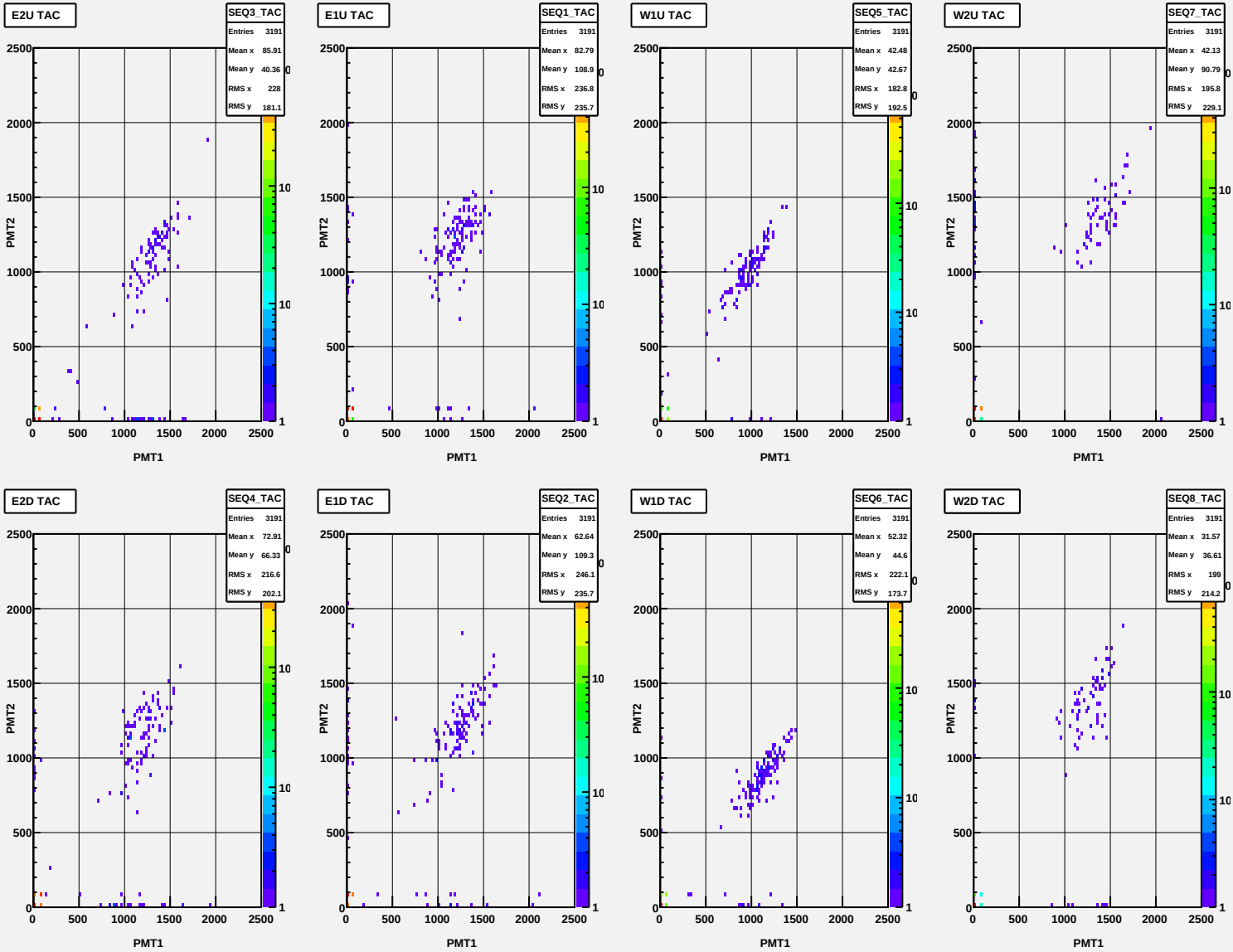
ADC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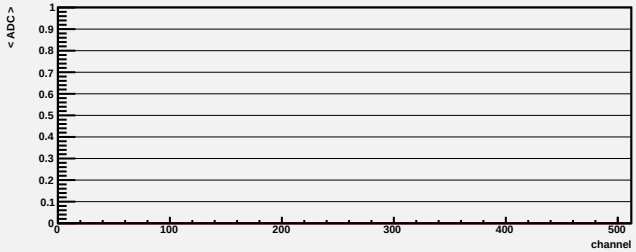
SEQ3_TAC
Entries 3191
Mean x 85.91
Mean y 40.36
RMS x 228
RMS y 181.1
E1U TAC
SEQ1_TAC
Entries 3191
Mean x 82.79
Mean y 108.9
RMS x 236.8
RMS y 235.7
W1U TAC
SEQ5_TAC
Entries 3191
Mean x 42.48
Mean y 42.67
RMS x 182.8
RMS y 192.5
W2U TAC
SEQ7_TAC
Entries 3191
Mean x 42.13
Mean y 90.79
RMS x 195.8
RMS y 229.1
E2D TAC
SEQ4_TAC
Entries 3191
Mean x 72.91
Mean y 66.33
RMS x 216.6
RMS y 202.1
E1D TAC
SEQ2_TAC
Entries 3191
Mean x 62.64
Mean y 109.3
RMS x 246.1
RMS y 235.7
W1D TAC
SEQ6_TAC
Entries 3191
Mean x 52.32
Mean y 44.6
RMS x 222.1
RMS y 173.7
W2D TAC
SEQ8_TAC
Entries 3191
Mean x 31.57
Mean y 36.61
RMS x 199
RMS y 214.2
PMT1
PMT2

E1U_A



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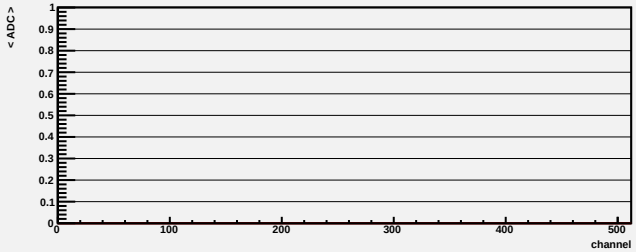
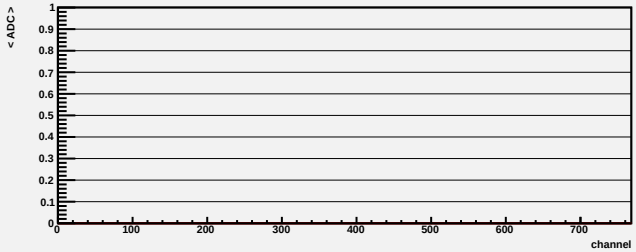
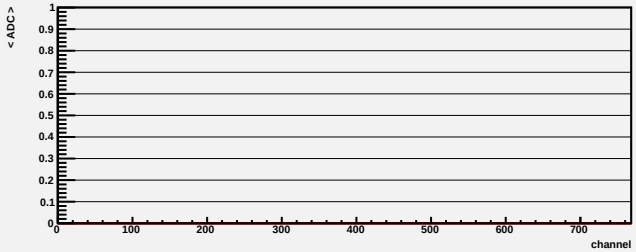


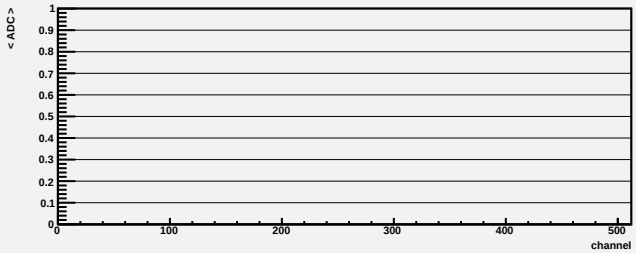
E1U_B



E1D_B



E1U_C



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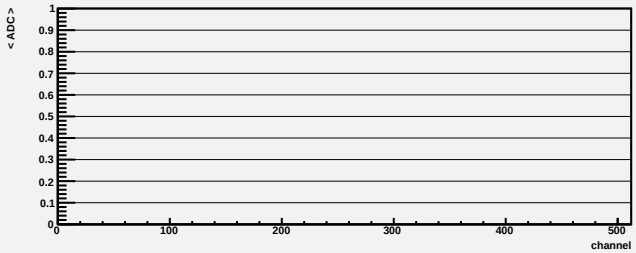

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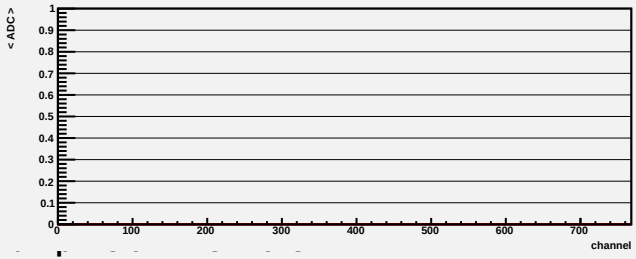
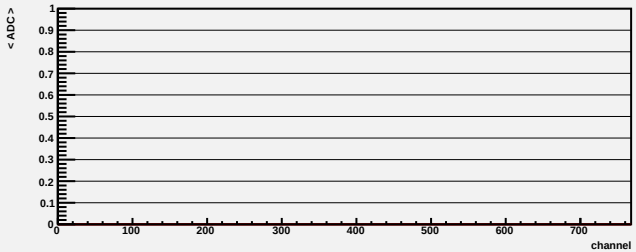


E1D_D



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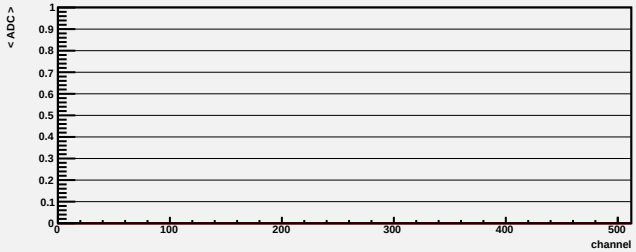
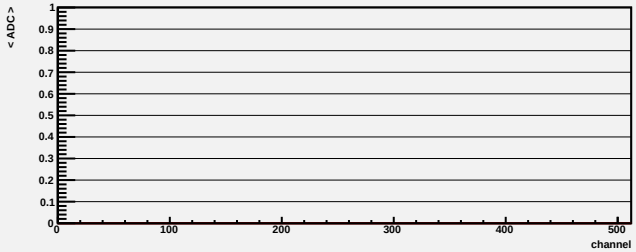
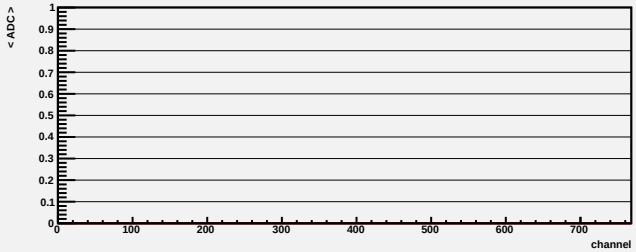


E2D_A



E2U_B



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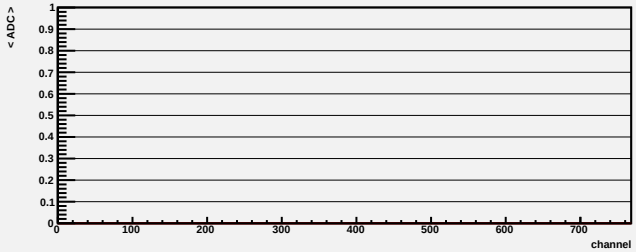

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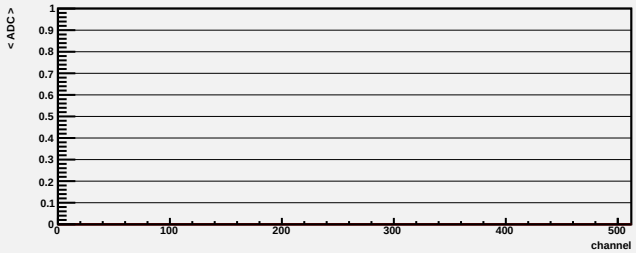

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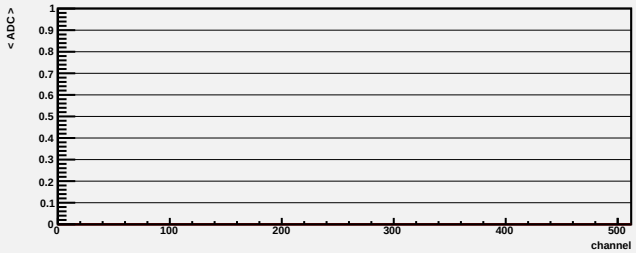

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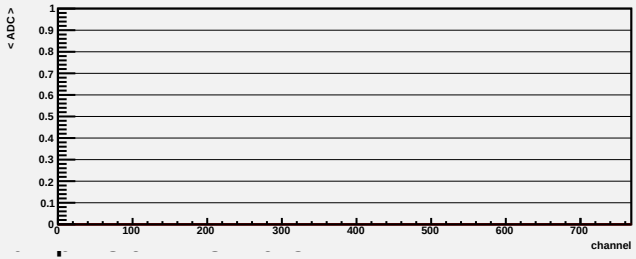
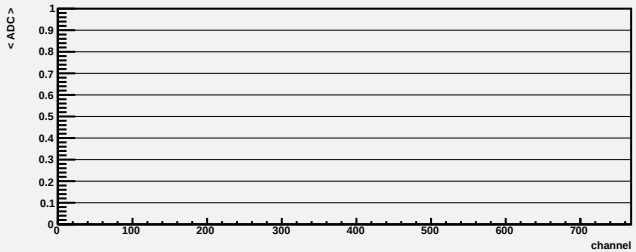


E2D_D



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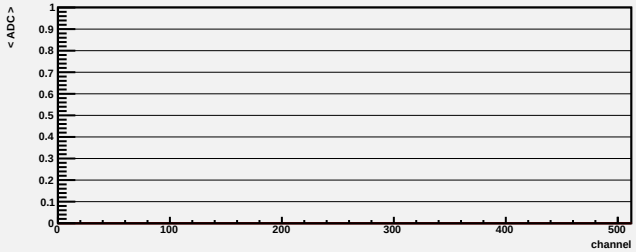

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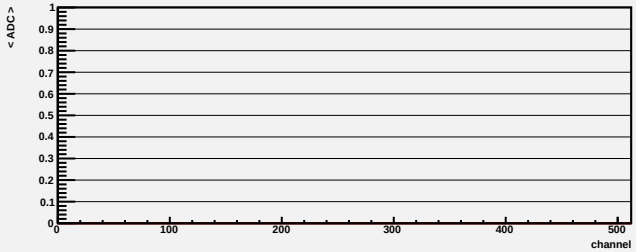
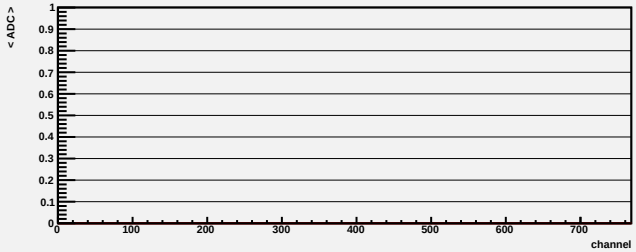


W1U_B



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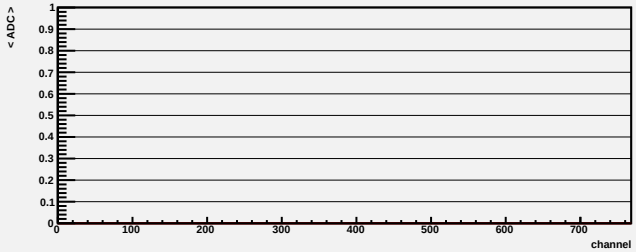

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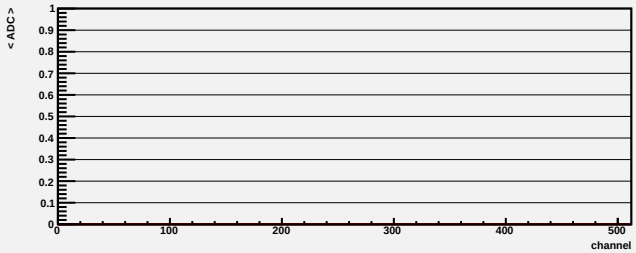

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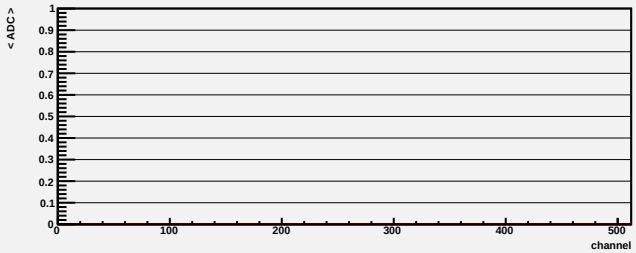

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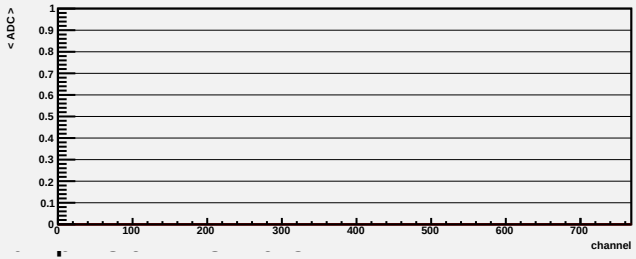

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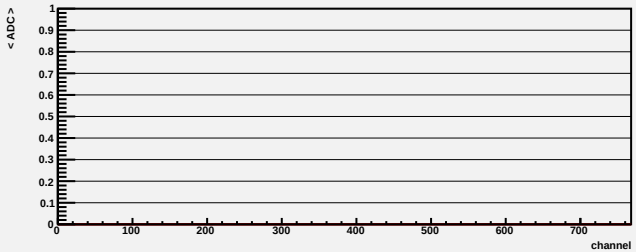

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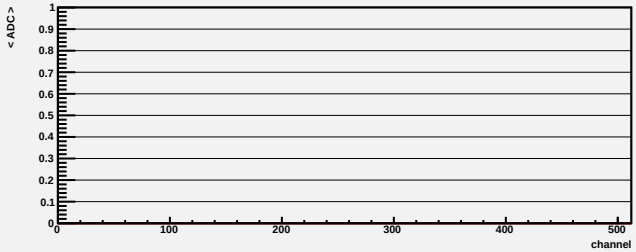

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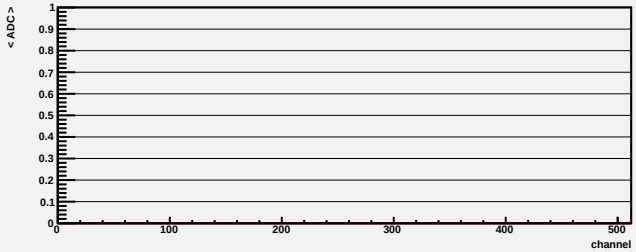

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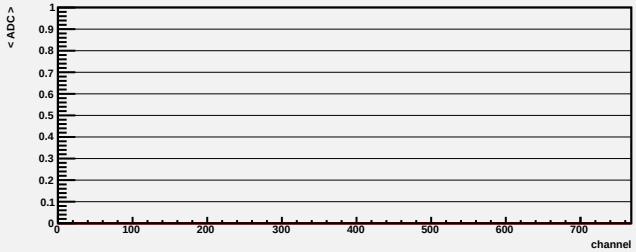

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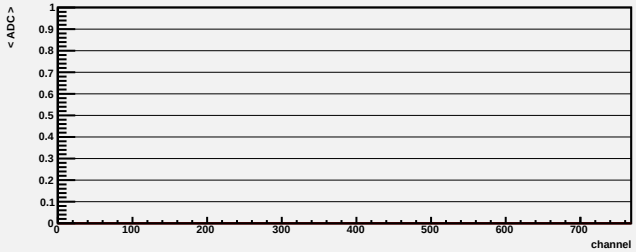

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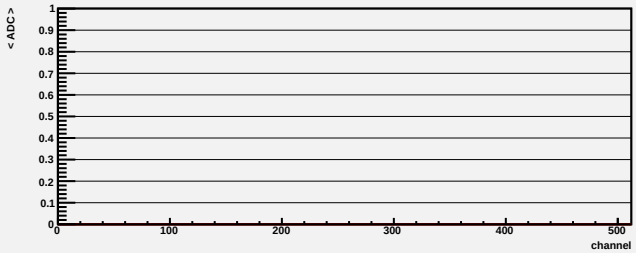

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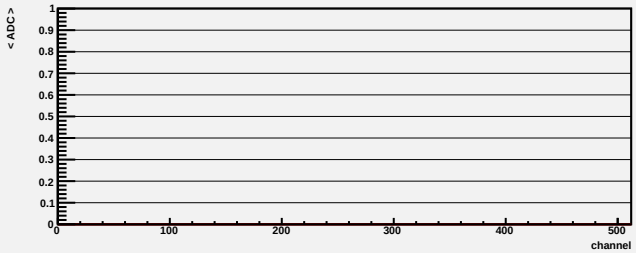

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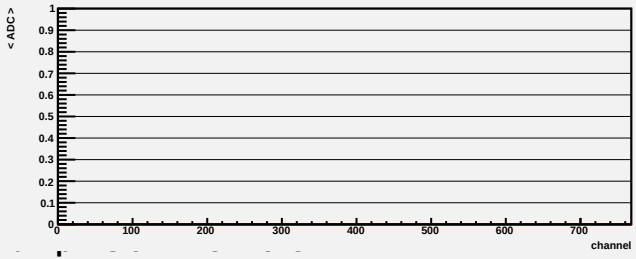

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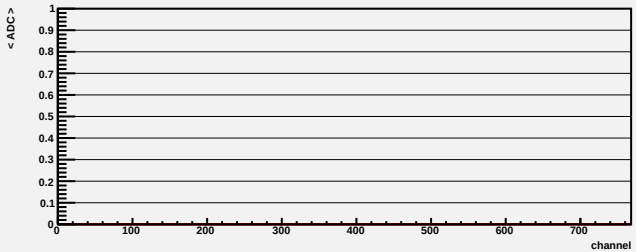
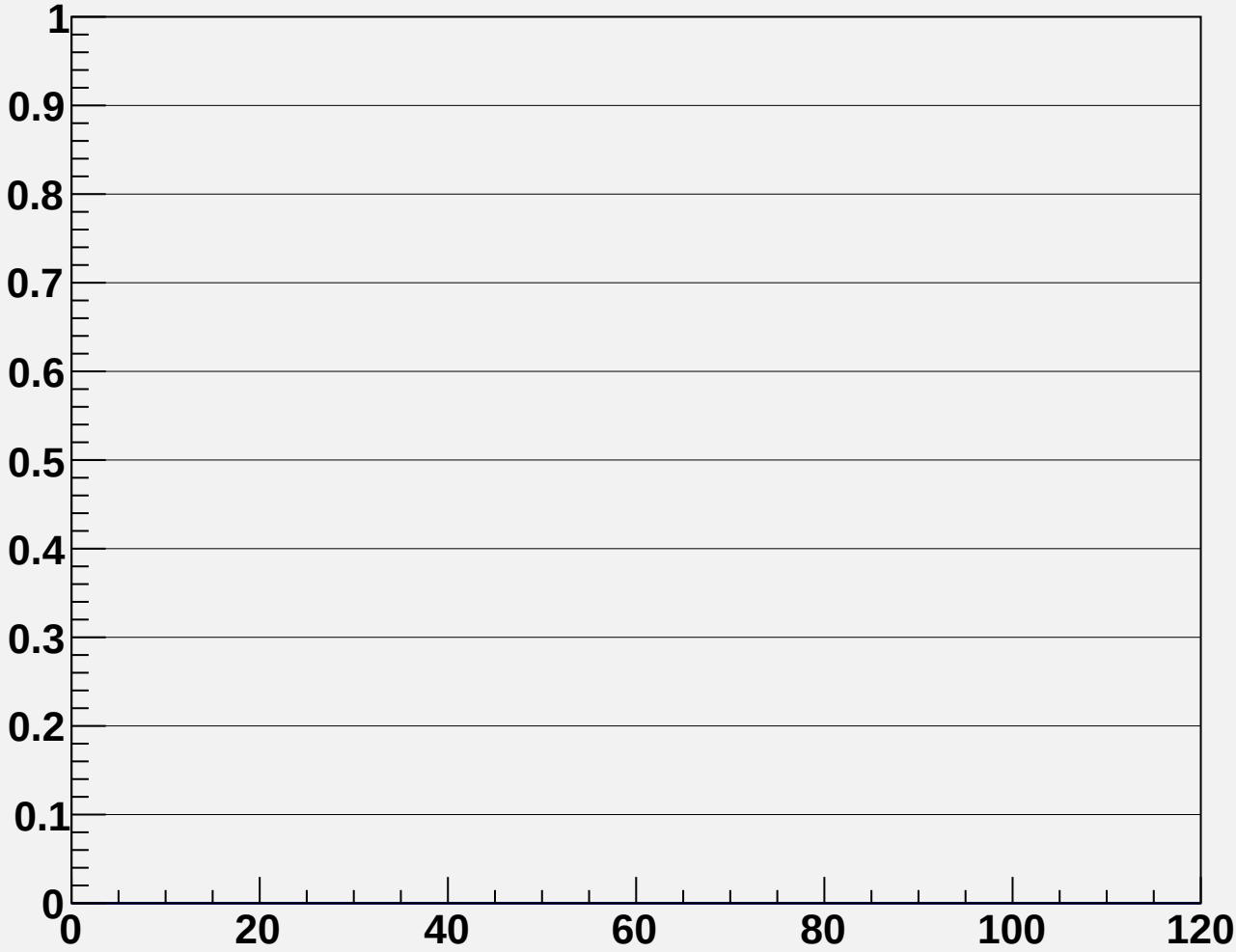


Hits per bunch



Thu Apr 23 01:47:31 2015