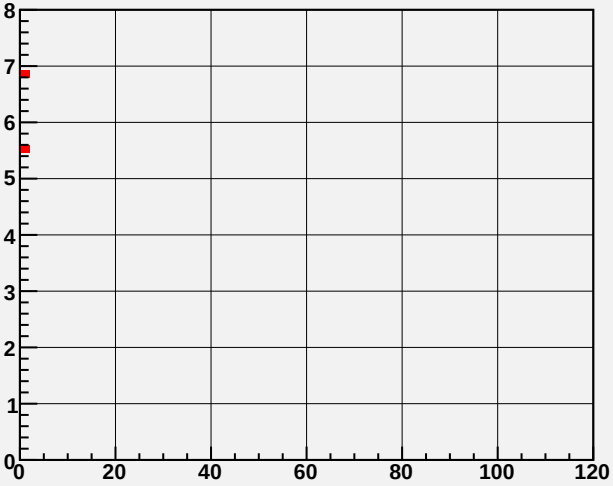
JevpSummary

Run #16072001: (running for 1819 seconds)

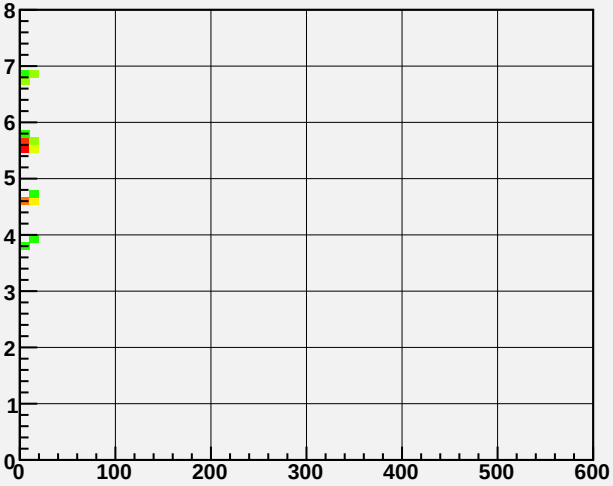
Tags: |tof|btow|trg|etow|daq|pp2pp|bsmd|esmd|tpx|pxl|mtd|ist|sst|gmt

```
builder    base: (events 8339, avgtime 0.0000)
builder     bbc: (events 8339, avgtime 0.0001)
builder     daq: (events 8339, avgtime 0.0000)
builder   bemc: (events 5555, avgtime 0.0751)
builder   eemc: (events 8339, avgtime 0.0095)
builder     fpd: (events 8339, avgtime 0.0001)
builder     hlt: (events 8339, avgtime 0.0000)
builder      l3: (events 3927, avgtime 0.1062)
builder     tof: (events 8339, avgtime 0.0005)
builder     mtd: (events 8339, avgtime 0.0001)
builder     tpx: (events 8339, avgtime 0.0194)
builder     trg: (events 8339, avgtime 0.0001)
builder     upc: (events 8339, avgtime 0.0000)
builder     fgt: (events 8339, avgtime 0.0088)
builder     vpd: (events 8339, avgtime 0.0001)
builder     fms: (events 8339, avgtime 0.0003)
builder     fps: (events 8339, avgtime 0.0002)
builder     gmt: (events 8339, avgtime 0.0001)
builder     pxl: (events 8339, avgtime 0.0348)
builder     ist: (events 8339, avgtime 0.0148)
builder     ssd: (events 8339, avgtime 0.0005)
```

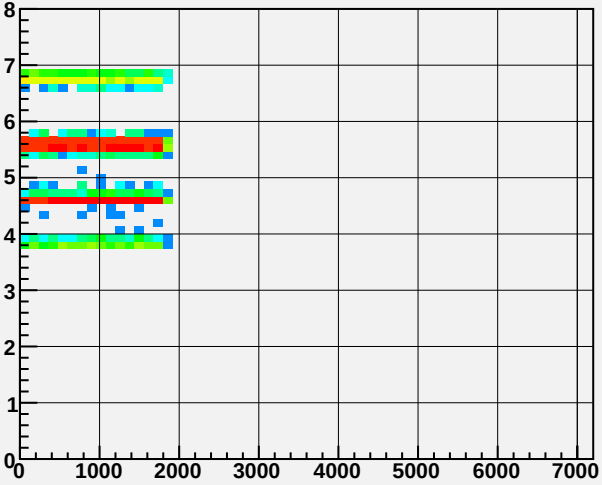
Log10(event size) vs time

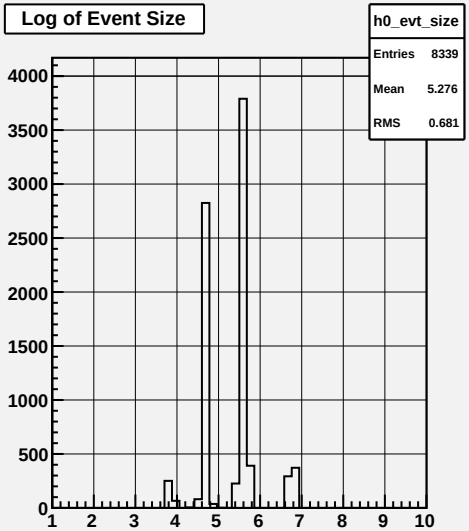


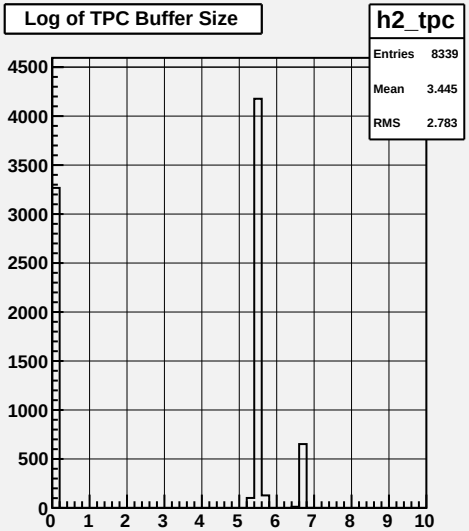
Log10(event size) vs time



Log10(event size) vs time





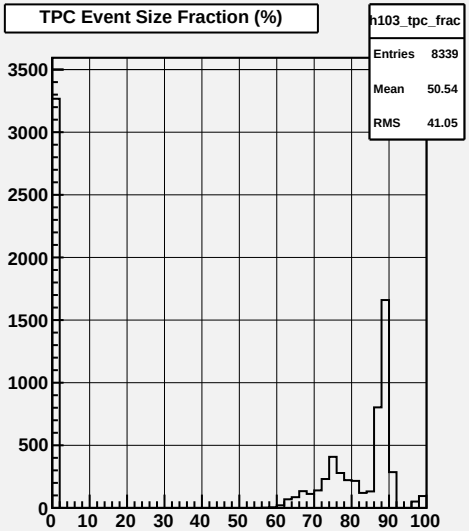


daq_h12_l3_evsize

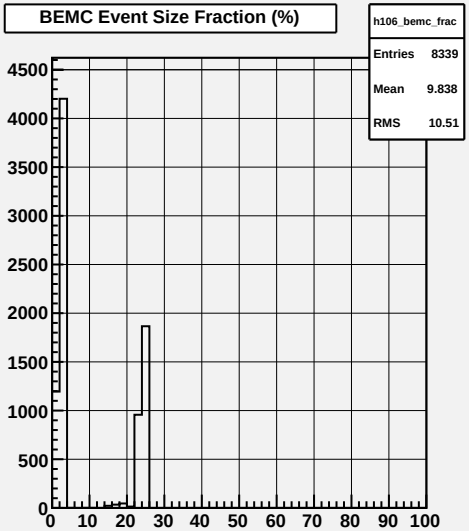
daq_h10_bemc_evsize

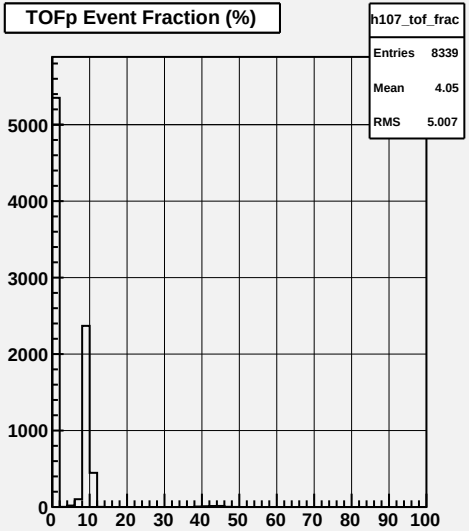
daq_h14_tof_evsize

daq_h11_ftp_evsize

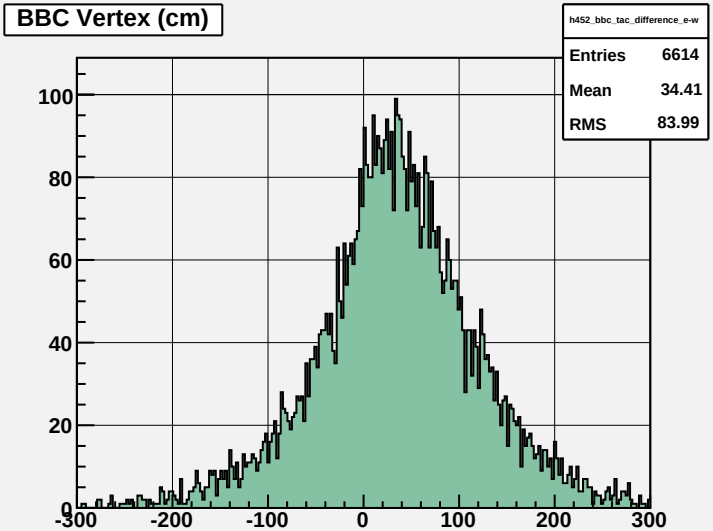


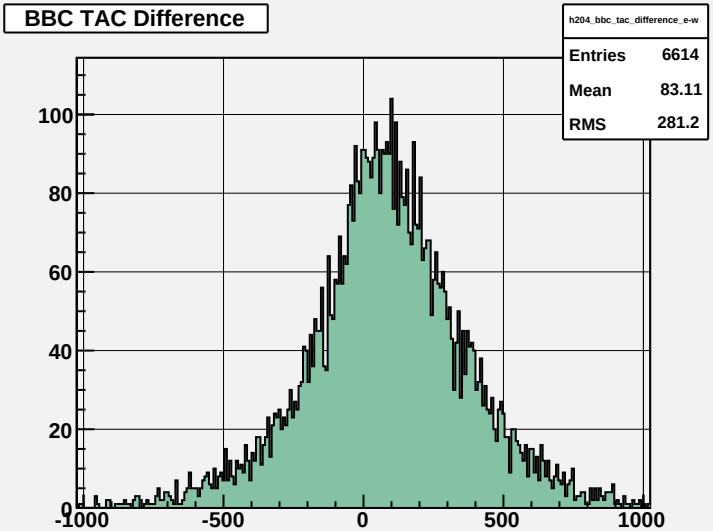
daq_h108_l3_frac

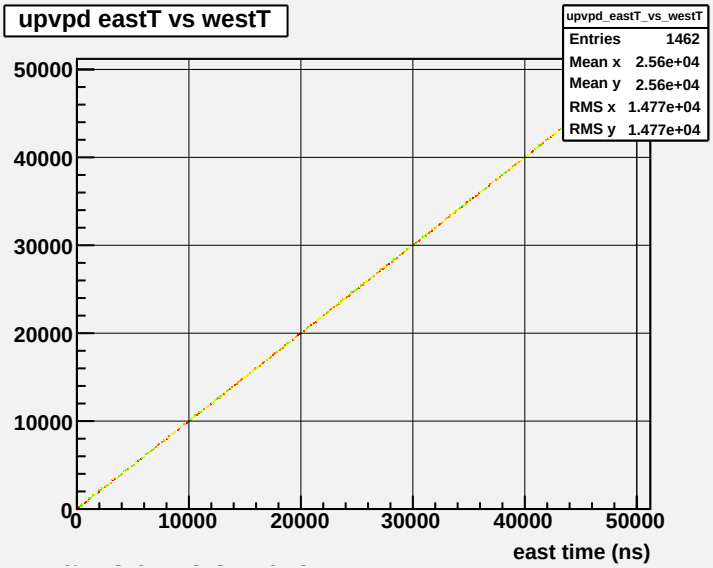


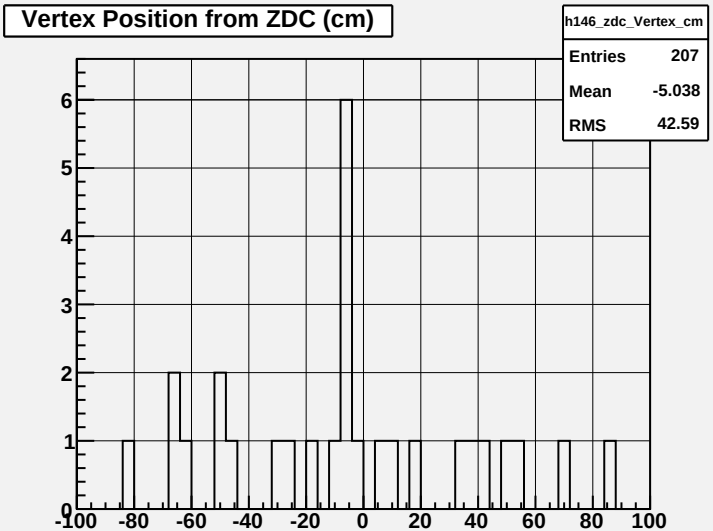


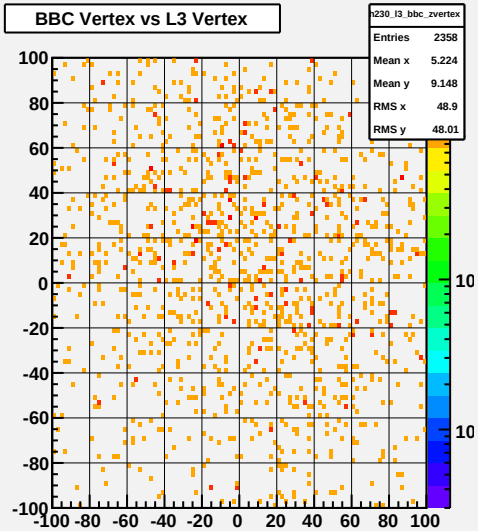
daq_h105_ftp_frac

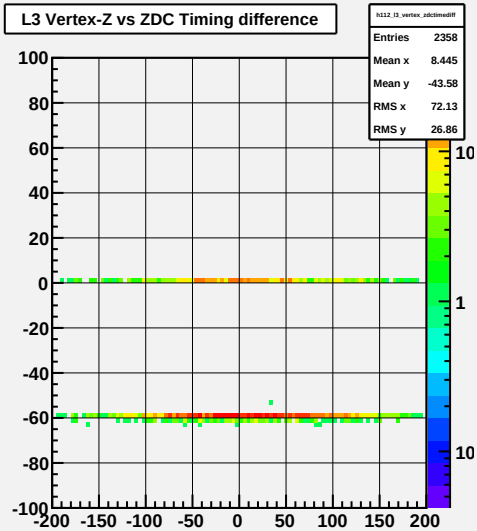

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 6614
Mean 34.41
RMS 83.99
100
80
60
40
20
0
-300
-200
-100
0
100
200
300

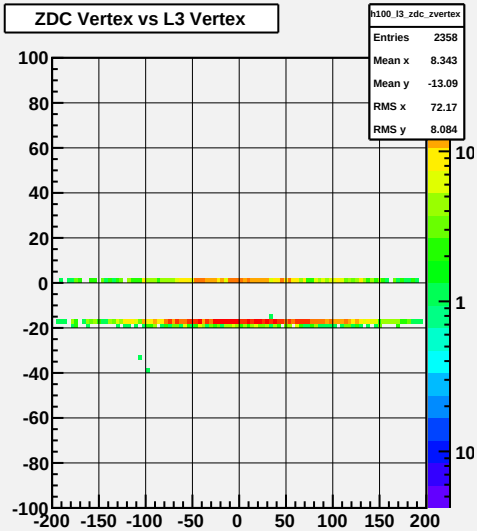

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 6614
Mean 83.11
RMS 281.2
100
80
60
40
20
0
-1000
-500
0
500
1000

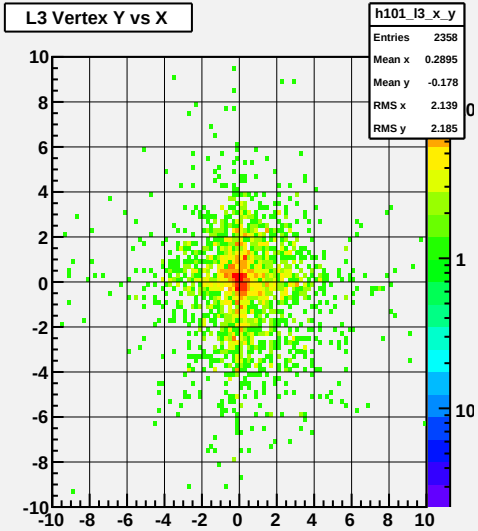

upvpd eastT vs westT
upvpd_eastT_vs_westT
Entries 1462
Mean x 2.56e+04
Mean y 2.56e+04
RMS x 1.477e+04
RMS y 1.477e+04
50000
40000
30000
20000
10000
0
0
10000
20000
30000
40000
50000
east time (ns)

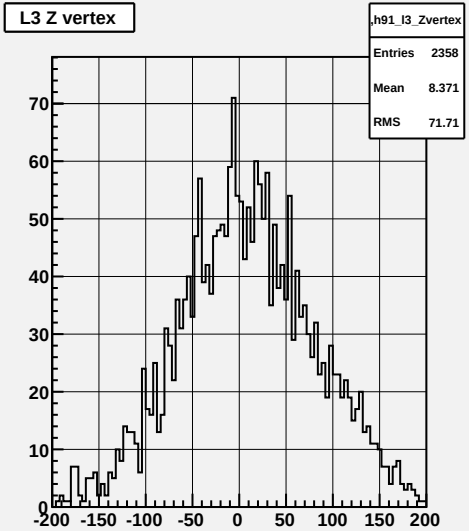

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 207
Mean -5.038
RMS 42.59
6
5
4
3
2
1
0
-100
-80
-60
-40
-20
0
20
40
60
80
100

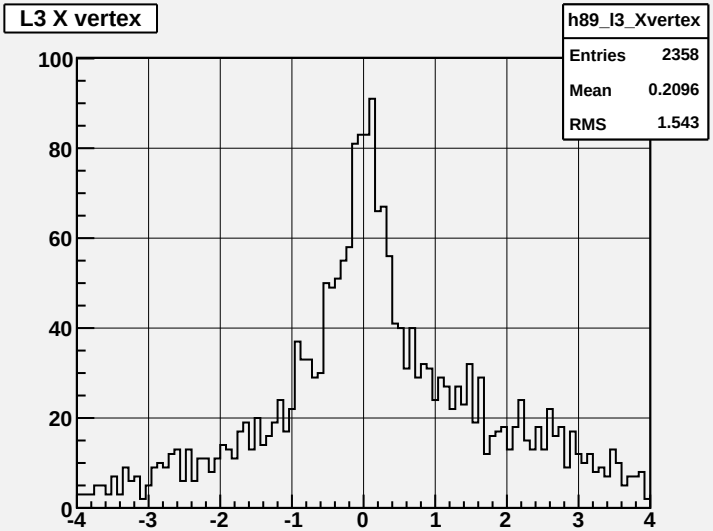

BBC Vertex vs L3 Vertex
h230_l3_bbc_zvertex
Entries 2358
Mean x 5.224
Mean y 9.148
RMS x 48.9
RMS y 48.01

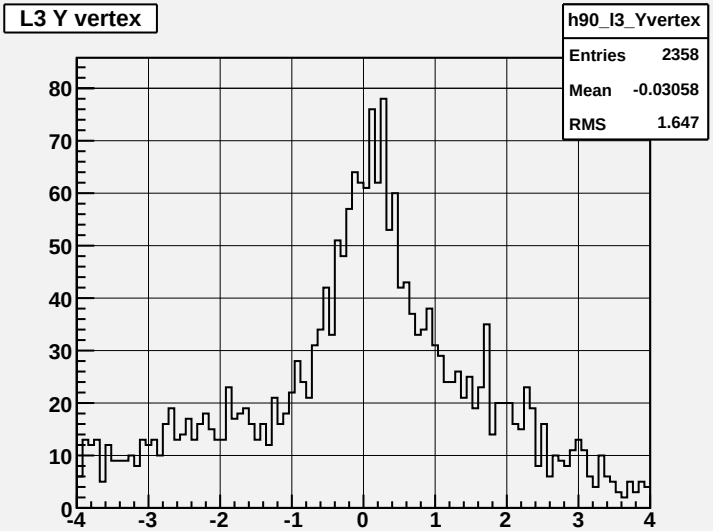

L3 Vertex-Z vs ZDC Timing difference
h112_l3_vertex_zdctimediff
Entries 2358
Mean x 8.445
Mean y -43.58
RMS x 72.13
RMS y 26.86

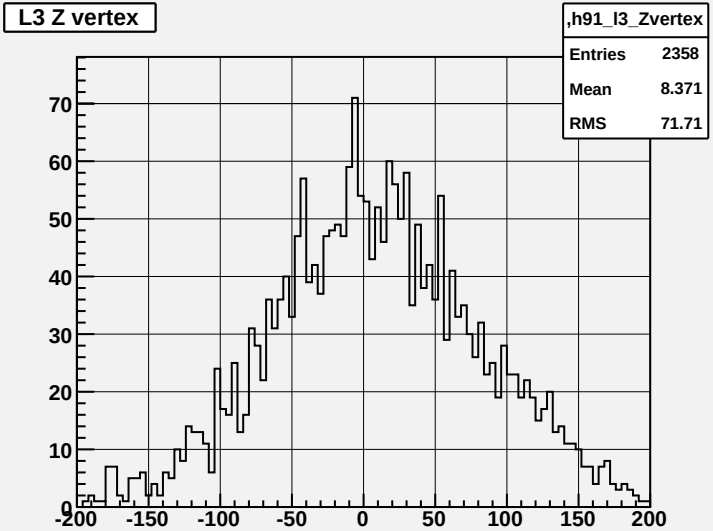

ZDC Vertex vs L3 Vertex
h100_l3_zdc_zvertex
Entries 2358
Mean x 8.343
Mean y -13.09
RMS x 72.17
RMS y 8.084

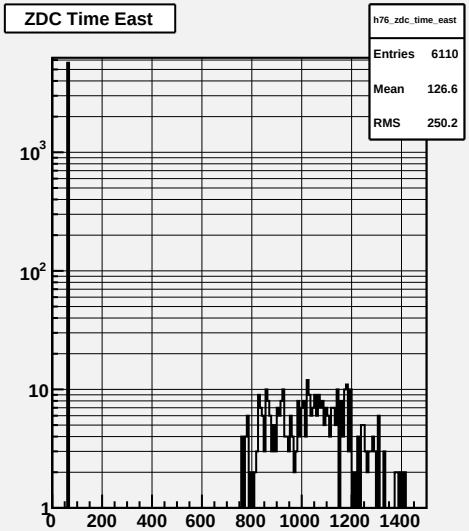

L3 Vertex Y vs X
h101_l3_x_y
Entries 2358
Mean x 0.2895
Mean y -0.178
RMS x 2.139
RMS y 2.185

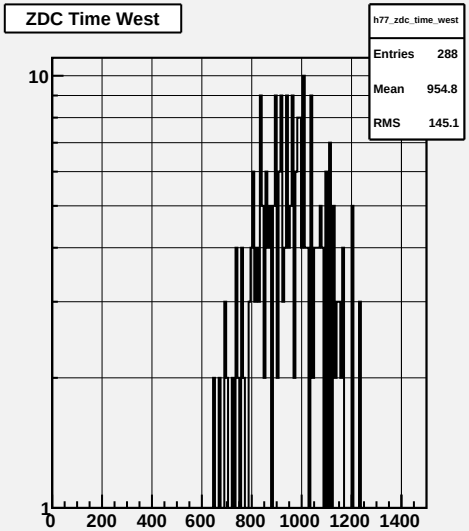

L3 Z vertex
h91_l3_Zvertex
Entries 2358
Mean 8.371
RMS 71.71

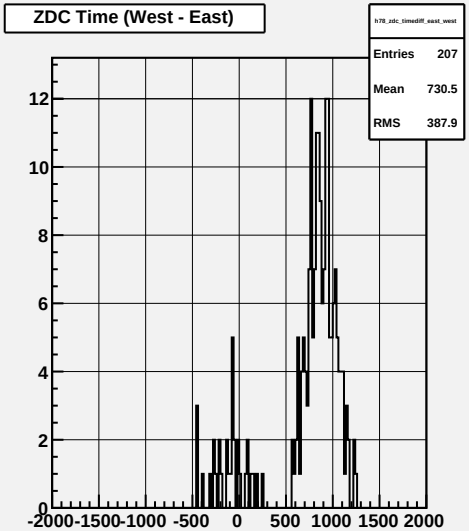

L3 X vertex
h89_l3_Xvertex
Entries 2358
Mean 0.2096
RMS 1.543

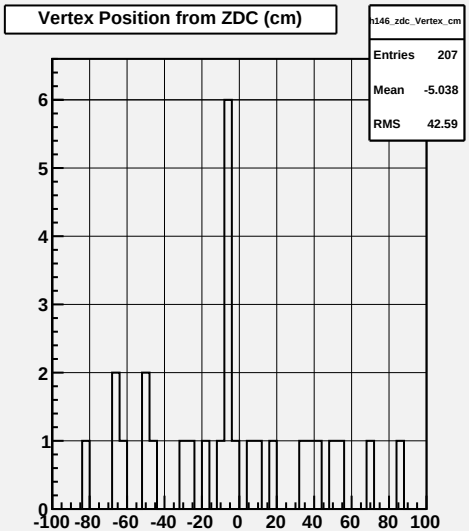

L3 Y vertex
h90_l3_Yvertex
Entries 2358
Mean -0.03058
RMS 1.647

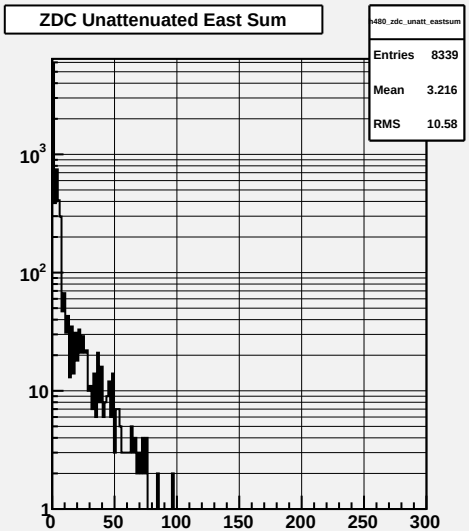

L3 Z vertex
,h91_l3_Zvertex
Entries 2358
Mean 8.371
RMS 71.71

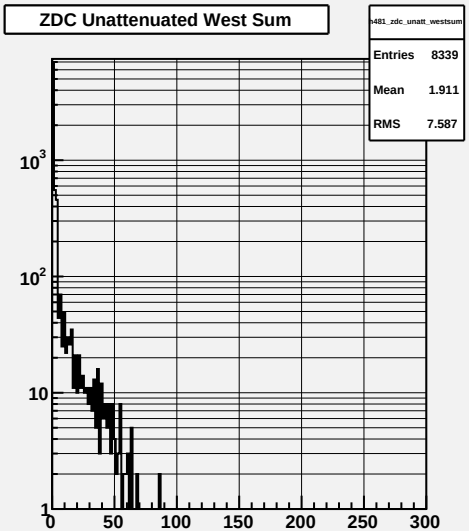

ZDC Time East
h76_zdc_time_east
Entries 6110
Mean 126.6
RMS 250.2

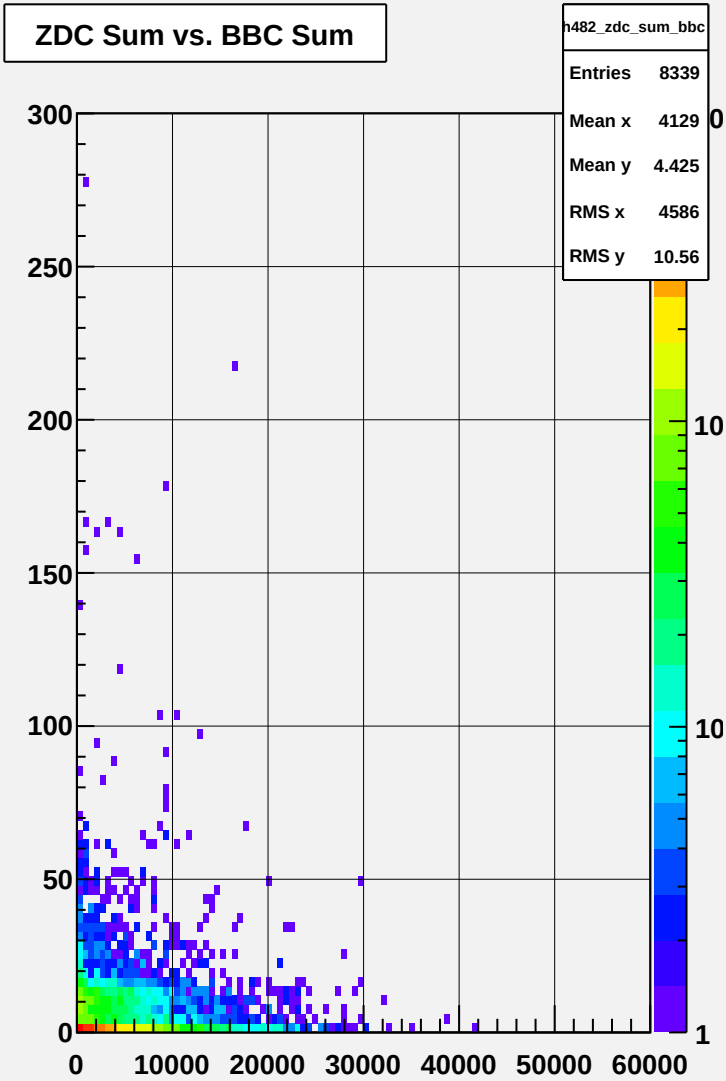

ZDC Time West
h77_zdc_time_west
Entries 288
Mean 954.8
RMS 145.1

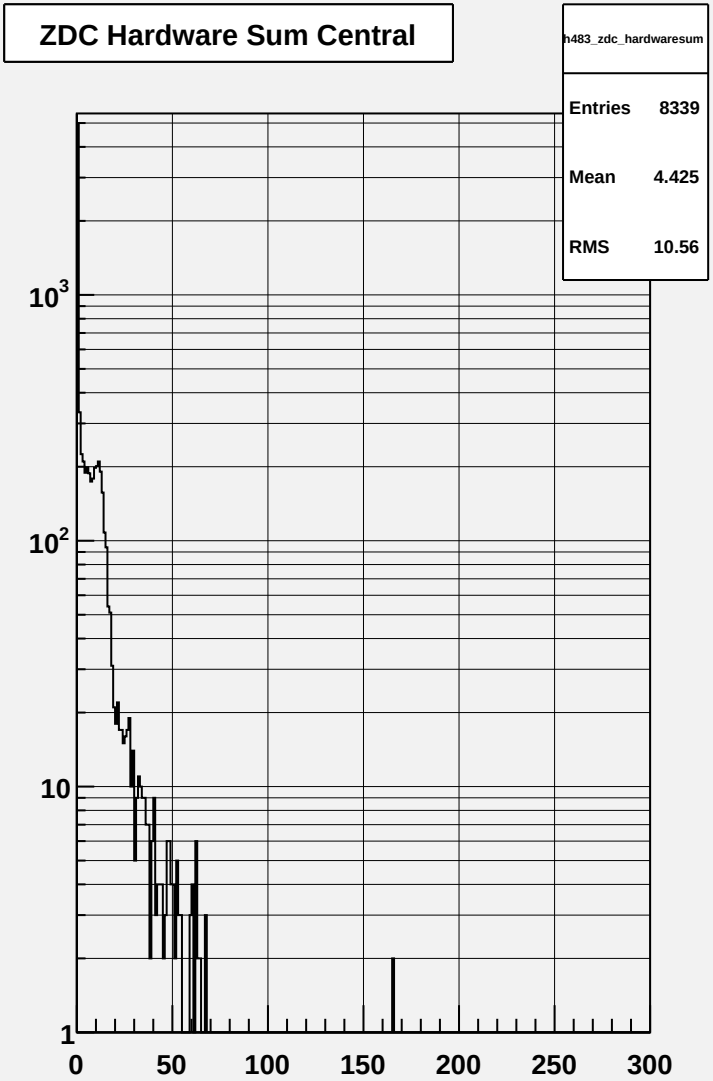

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 207
Mean 730.5
RMS 387.9

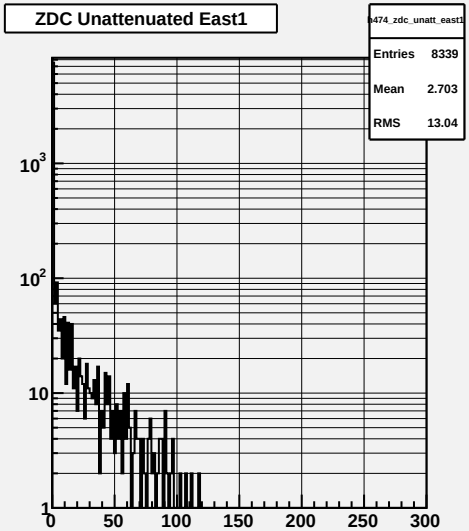

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 207
Mean -5.038
RMS 42.59

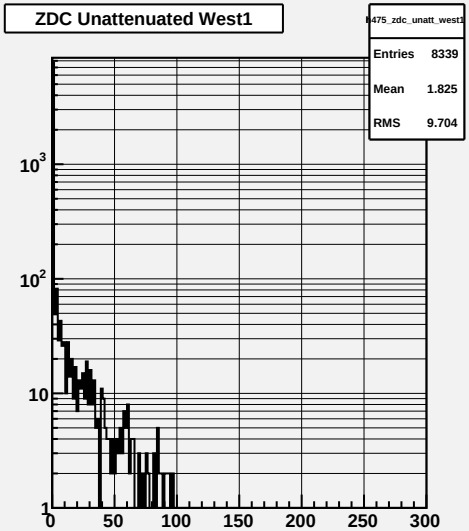

ZDC Unattenuated East Sum
h480_zdc_unatt_eastsum
Entries 8339
Mean 3.216
RMS 10.58

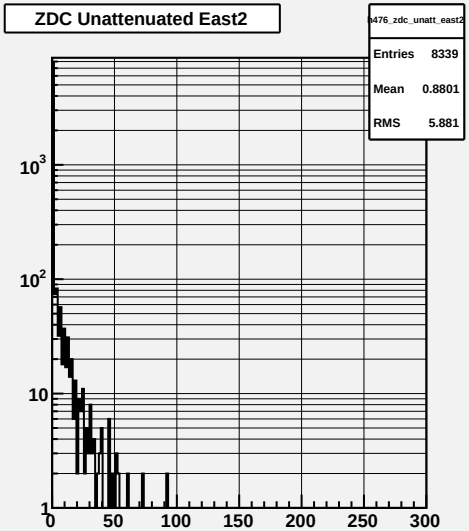

ZDC Unattenuated West Sum
h481_zdc_unatt_westsum
Entries 8339
Mean 1.911
RMS 7.587

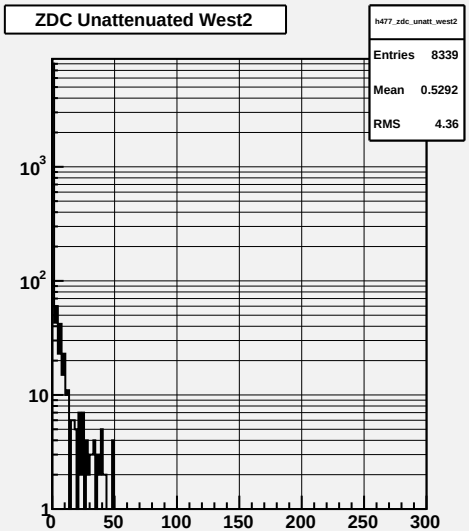

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 8339
Mean x 4129
Mean y 4.425
RMS x 4586
RMS y 10.56
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
10
1

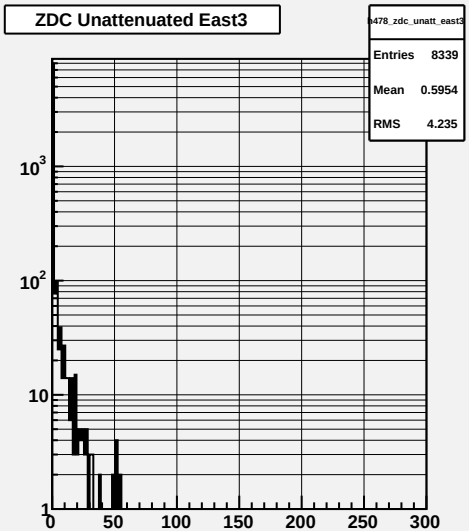

ZDC Hardware Sum Central
h483_zdc_hardwaresum
Entries 8339
Mean 4.425
RMS 10.56
10^3
10^2
10
1
0
50
100
150
200
250
300

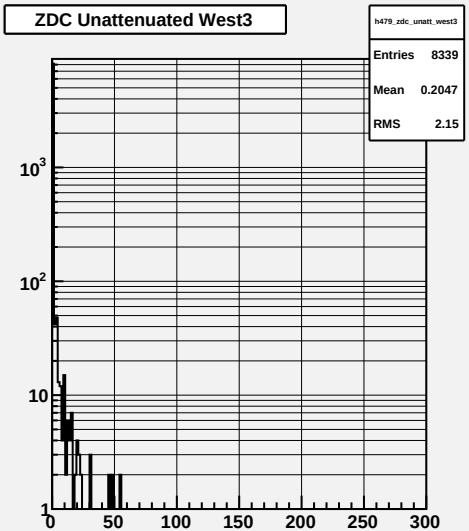

ZDC Unattenuated East1
h474_zdc_unatt_east1
Entries 8339
Mean 2.703
RMS 13.04
10^3
10^2
10
1
0 50 100 150 200 250 300

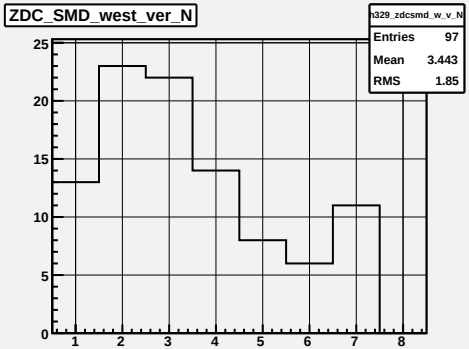

ZDC Unattenuated West1
h475_zdc_unatt_west1
Entries 8339
Mean 1.825
RMS 9.704
10^3
10^2
10
1
0 50 100 150 200 250 300

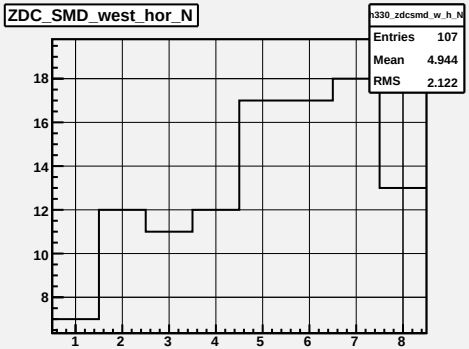

ZDC Unattenuated East2
h476_zdc_unatt_east2
Entries 8339
Mean 0.8801
RMS 5.881
10^3
10^2
10
1
0 50 100 150 200 250 300

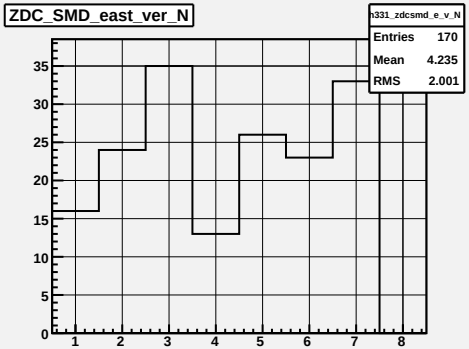

ZDC Unattenuated West2
h477_zdc_unatt_west2
Entries 8339
Mean 0.5292
RMS 4.36
10^3
10^2
10
1
0 50 100 150 200 250 300

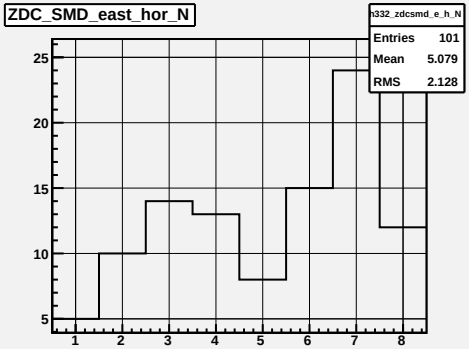

ZDC Unattenuated East3
h478_zdc_unatt_east3
Entries 8339
Mean 0.5954
RMS 4.235
10^3
10^2
10
1
0 50 100 150 200 250 300

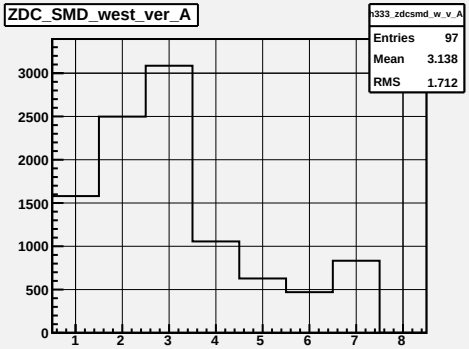

ZDC Unattenuated West3
h479_zdc_unatt_west3
Entries 8339
Mean 0.2047
RMS 2.15
10^3
10^2
10
1
0 50 100 150 200 250 300

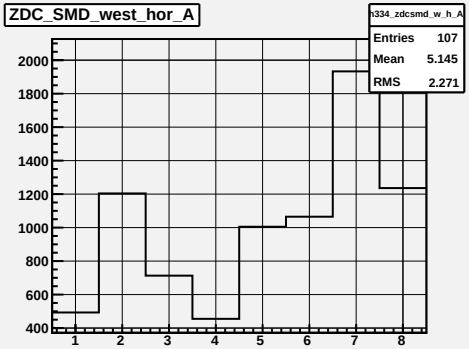

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 97
Mean 3.443
RMS 1.85

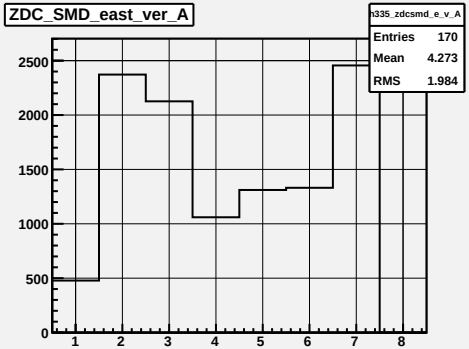

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 107
Mean 4.944
RMS 2.122

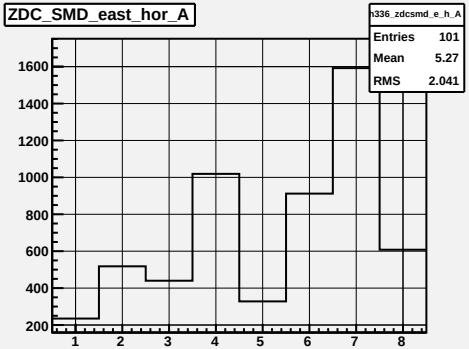

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 170
Mean 4.235
RMS 2.001

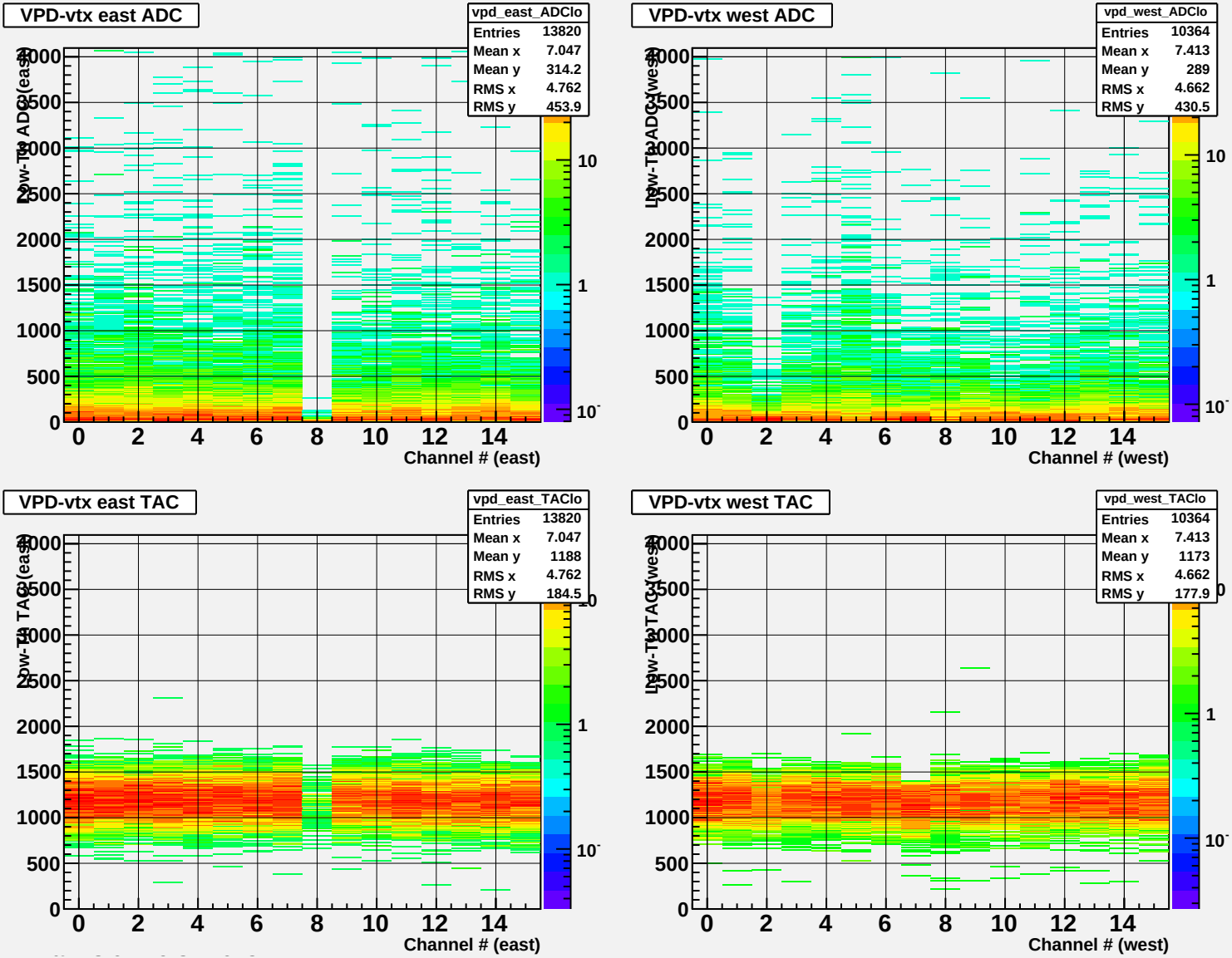

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 101
Mean 5.079
RMS 2.128

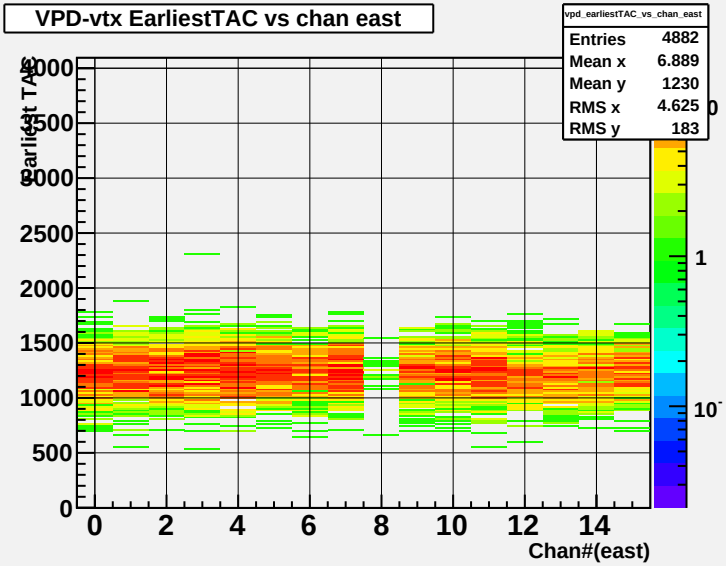

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 97
Mean 3.138
RMS 1.712

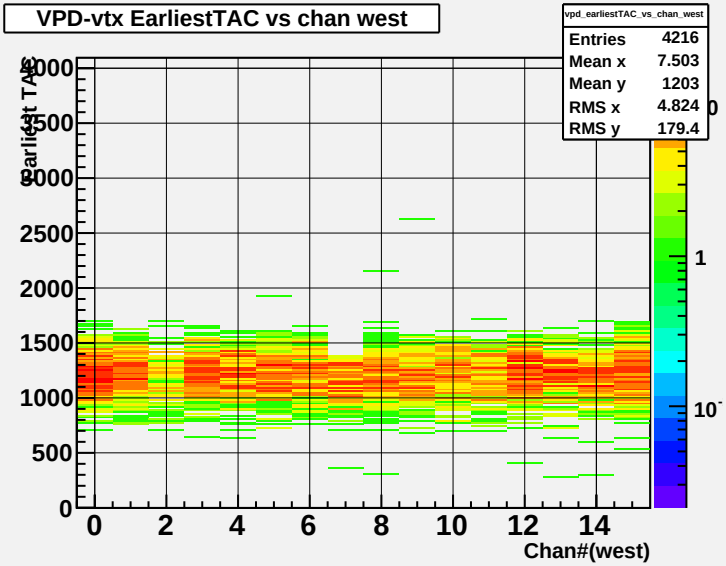

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 107
Mean 5.145
RMS 2.271

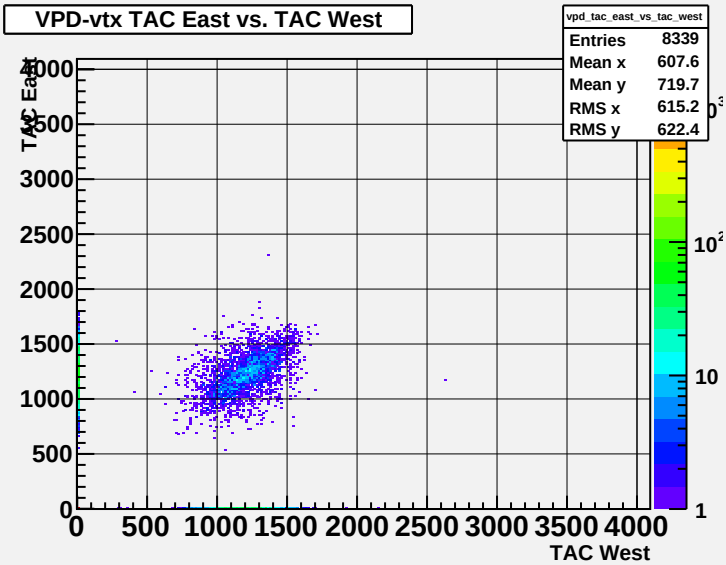

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 170
Mean 4.273
RMS 1.984

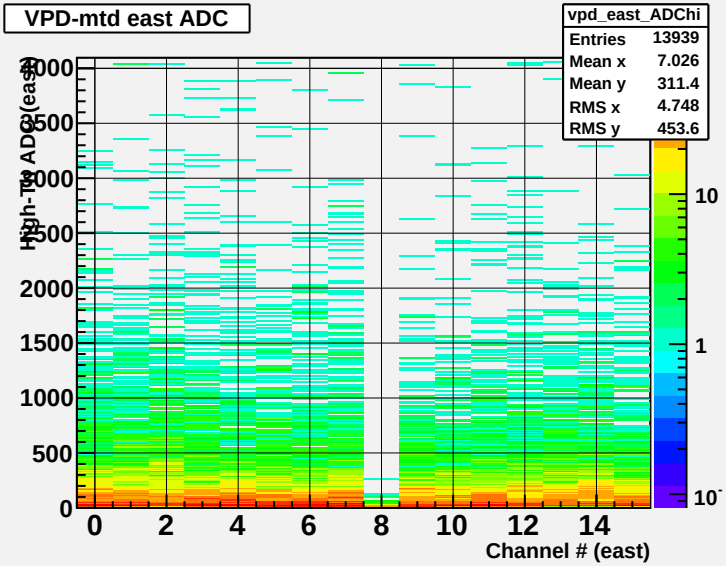

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 101
Mean 5.27
RMS 2.041

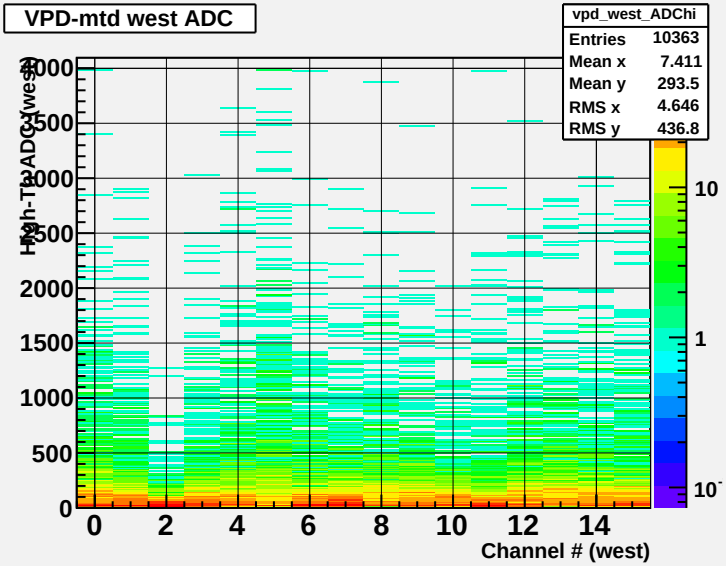

VPD-vtx east ADC
vpd_east_ADClo
Entries 13820
Mean x 7.047
Mean y 314.2
RMS x 4.762
RMS y 453.9
Low-Th ADC (east)
Channel # (east)
VPD-vtx west ADC
vpd_west_ADClo
Entries 10364
Mean x 7.413
Mean y 289
RMS x 4.662
RMS y 430.5
Low-Th ADC (west)
Channel # (west)
VPD-vtx east TAC
vpd_east_TAClo
Entries 13820
Mean x 7.047
Mean y 1188
RMS x 4.762
RMS y 184.5
Low-Th TAC (east)
Channel # (east)
VPD-vtx west TAC
vpd_west_TAClo
Entries 10364
Mean x 7.413
Mean y 1173
RMS x 4.662
RMS y 177.9
Low-Th TAC (west)
Channel # (west)

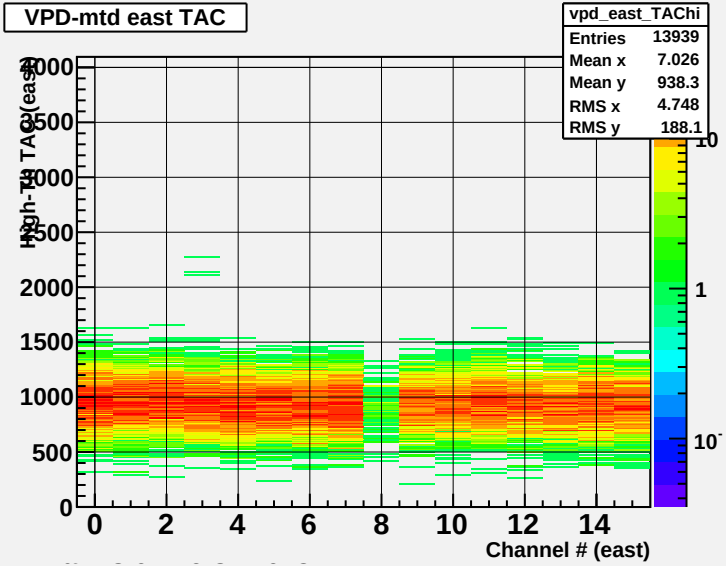

VPD-vtx EarliestTAC vs chan east
vpd_earliestTAC_vs_chan_east
Entries 4882
Mean x 6.889
Mean y 1230
RMS x 4.625
RMS y 183
Earliest TAC
Chan#(east)

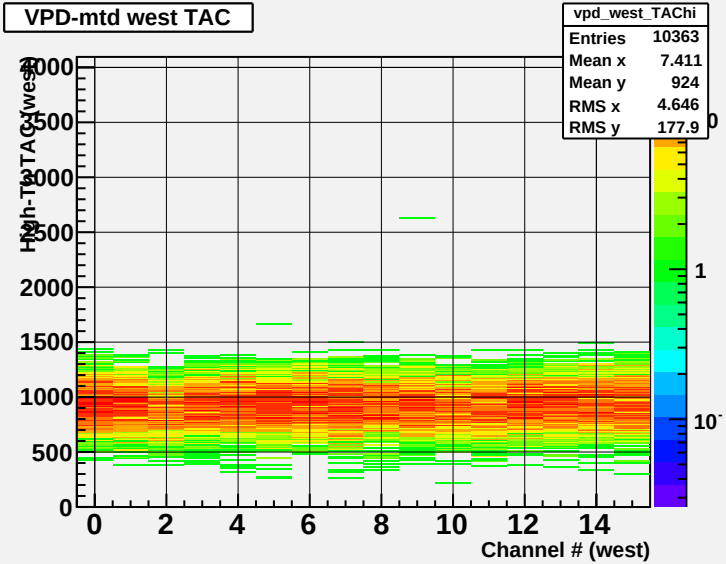

VPD-vtx EarliestTAC vs chan west
vpd_earliestTAC_vs_chan_west
Entries 4216
Mean x 7.503
Mean y 1203
RMS x 4.824
RMS y 179.4
Earliest TAC
Chan#(west)

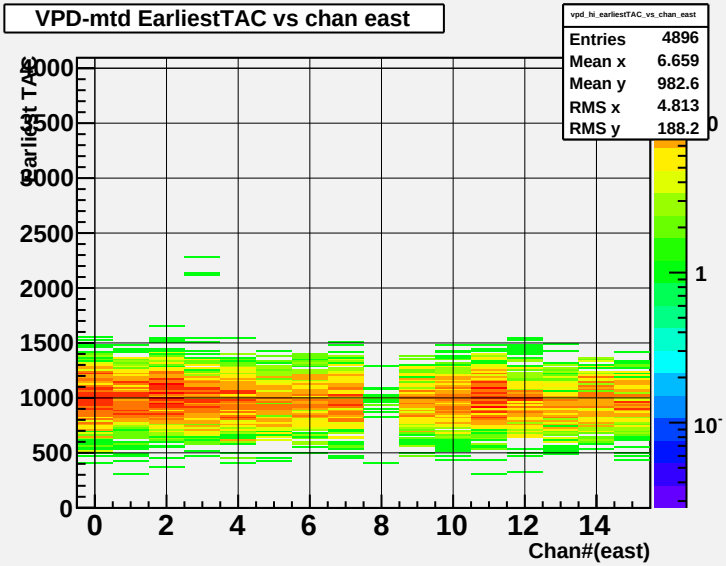

VPD-vtx TAC East vs. TAC West
vpd_tac_east_vs_tac_west
Entries 8339
Mean x 607.6
Mean y 719.7
RMS x 615.2
RMS y 622.4
TAC East
TAC West

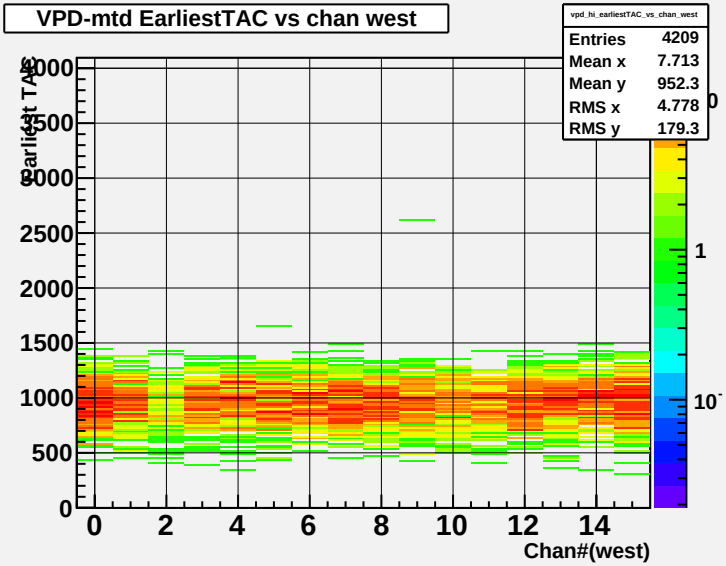

VPD-mtd east ADC
vpd_east_ADChi
Entries 13939
Mean x 7.026
Mean y 311.4
RMS x 4.748
RMS y 453.6
High-Tu ADC (east)
Channel # (east)

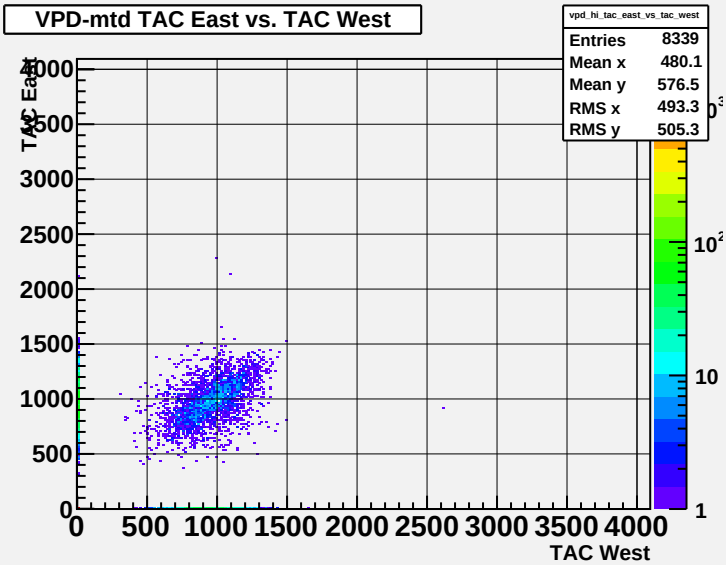

VPD-mtd west ADC
vpd_west_ADChi
Entries 10363
Mean x 7.411
Mean y 293.5
RMS x 4.646
RMS y 436.8
High-Tu ADC (west)
Channel # (west)

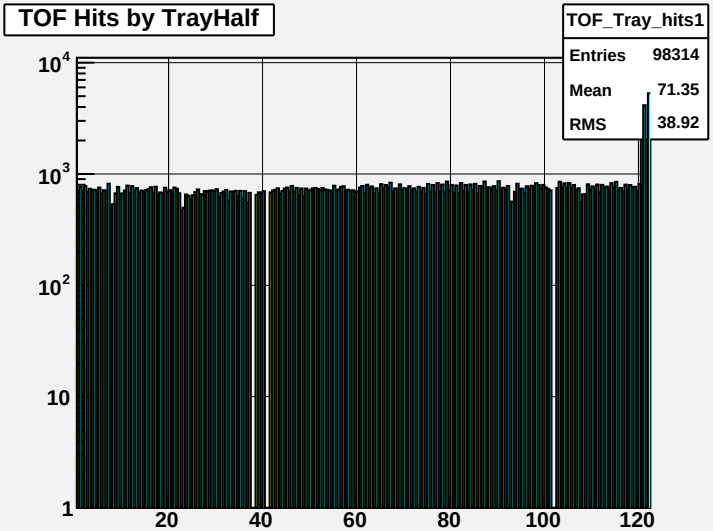

VPD-mtd east TAC
vpd_east_TAChi
Entries 13939
Mean x 7.026
Mean y 938.3
RMS x 4.748
RMS y 188.1
High-Tu TAC (east)
Channel # (east)

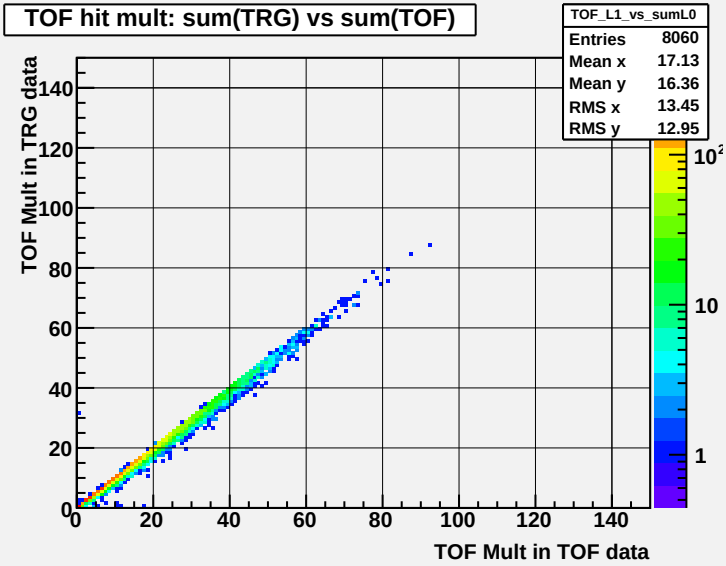

VPD-mtd west TAC
vpd_west_TAChi
Entries 10363
Mean x 7.411
Mean y 924
RMS x 4.646
RMS y 177.9
High-Tu TAC (west)
Channel # (west)

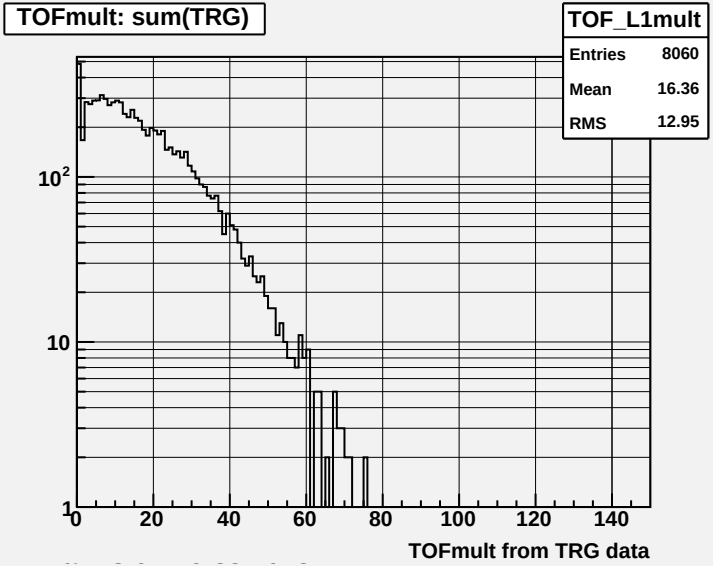

VPD-mtd EarliestTAC vs chan east
vpd_hi_earliestTAC_vs_chan_east
Entries 4896
Mean x 6.659
Mean y 982.6
RMS x 4.813
RMS y 188.2
Earliest TAC
Chan#(east)

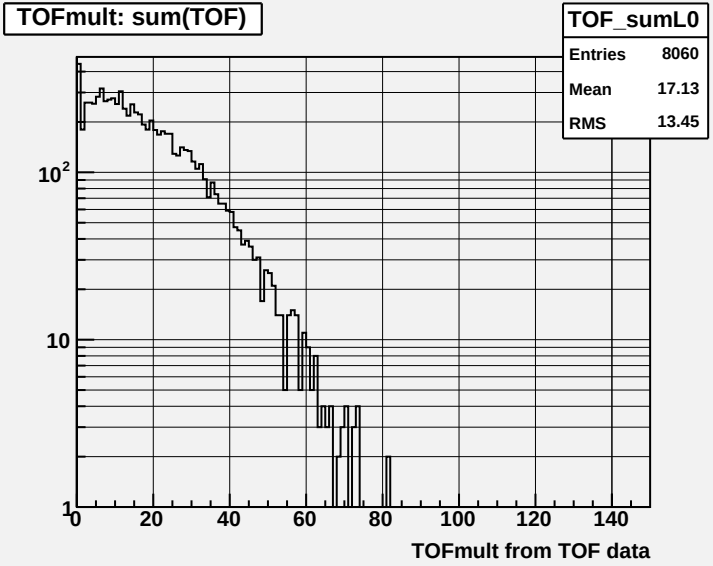

VPD-mtd EarliestTAC vs chan west
vpd_hi_earliestTAC_vs_chan_west
Entries 4209
Mean x 7.713
Mean y 952.3
RMS x 4.778
RMS y 179.3
Earliest TAC
Chan#(west)

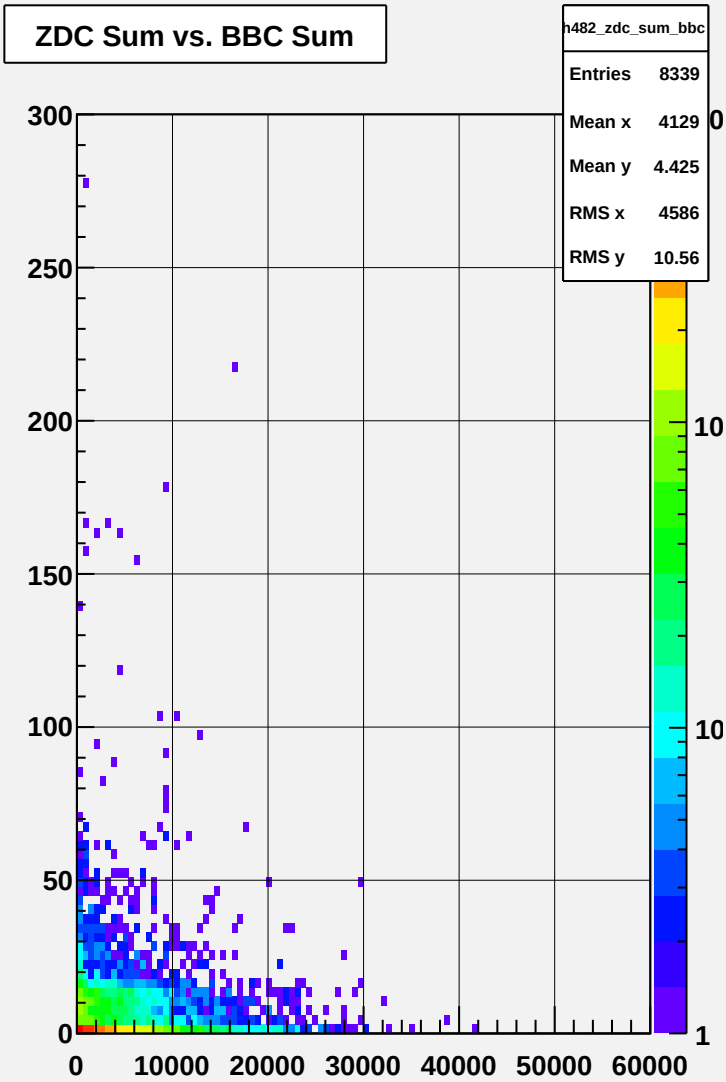

VPD-mtd TAC East vs. TAC West
vpd_hi_tac_east_vs_tac_west
Entries 8339
Mean x 480.1
Mean y 576.5
RMS x 493.3
RMS y 505.3
TAC East
TAC West

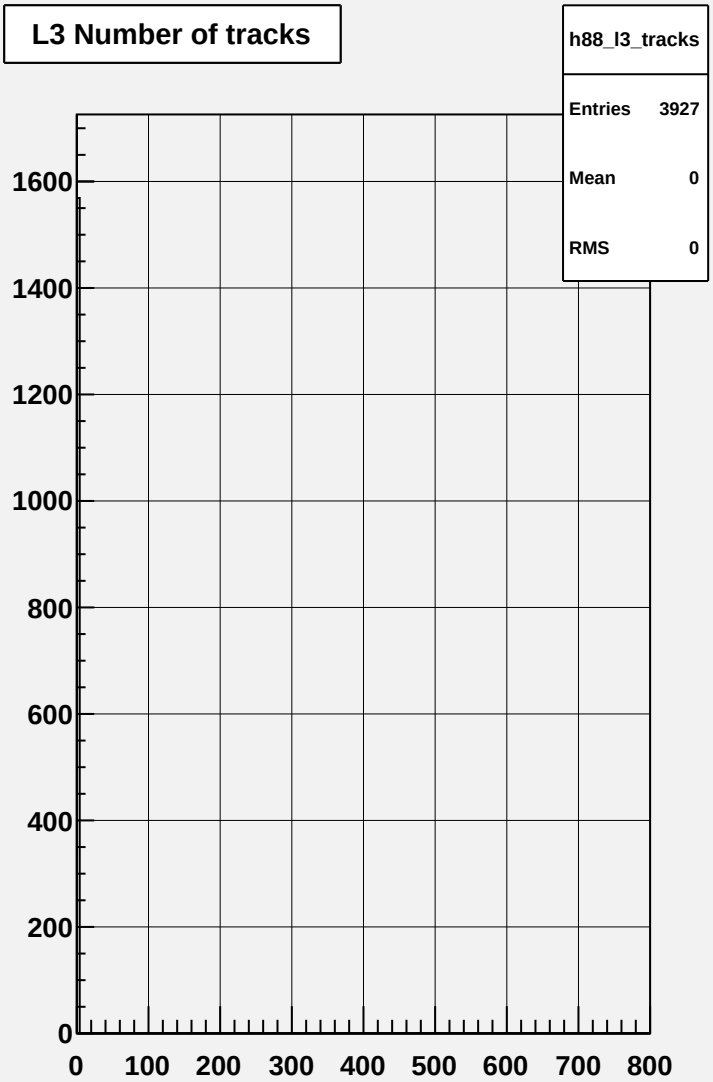

TOF Hits by TrayHalf
TOF_Tray_hits1
Entries 98314
Mean 71.35
RMS 38.92

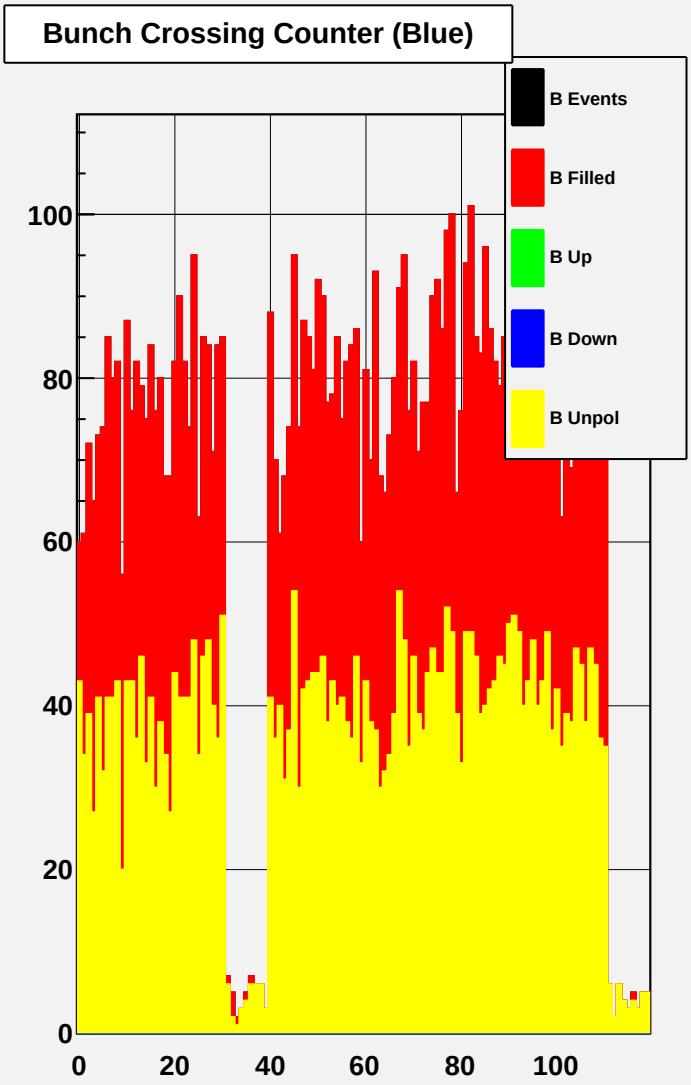

TOF hit mult: sum(TRG) vs sum(TOF)
TOF_L1_vs_sumL0
Entries 8060
Mean x 17.13
Mean y 16.36
RMS x 13.45
RMS y 12.95
TOF Mult in TRG data
TOF Mult in TOF data

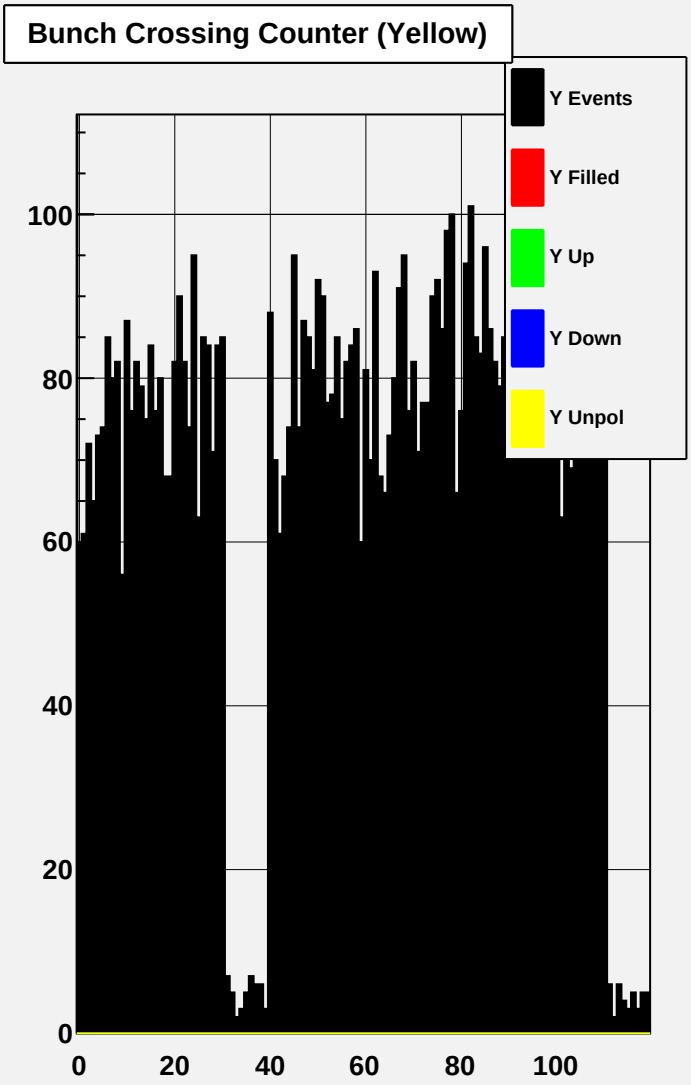

TOFmult: sum(TRG)
TOF_L1mult
Entries 8060
Mean 16.36
RMS 12.95
TOFmult from TRG data

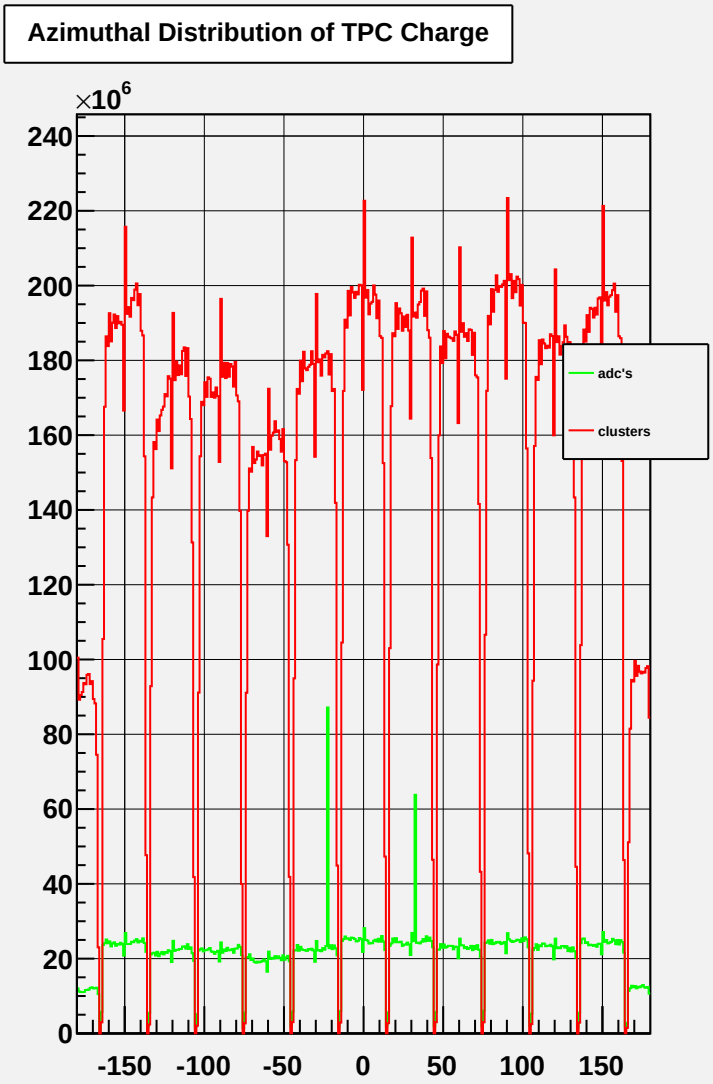

TOFmult: sum(TOF)
TOF_sumL0
Entries 8060
Mean 17.13
RMS 13.45
TOFmult from TOF data

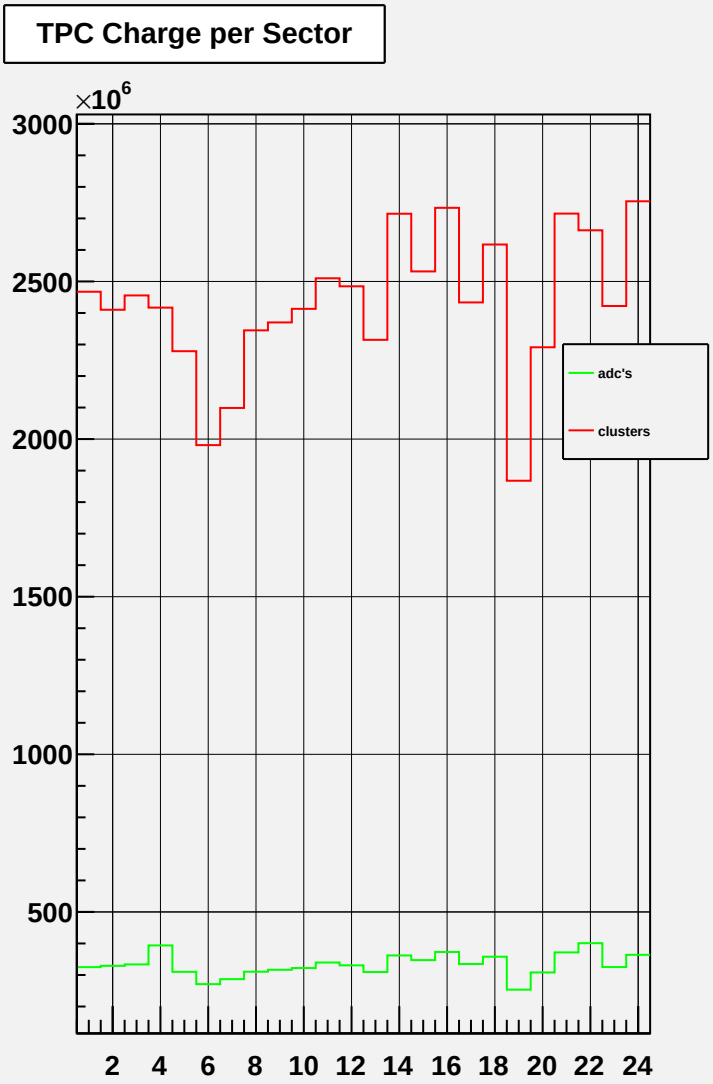

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 8339
Mean x 4129
Mean y 4.425
RMS x 4586
RMS y 10.56
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
1

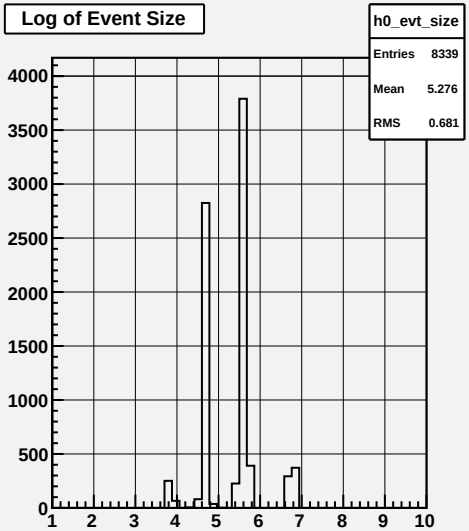

L3 Number of tracks
h88_l3_tracks
Entries 3927
Mean 0
RMS 0
1600
1400
1200
1000
800
600
400
200
0
0
100
200
300
400
500
600
700
800

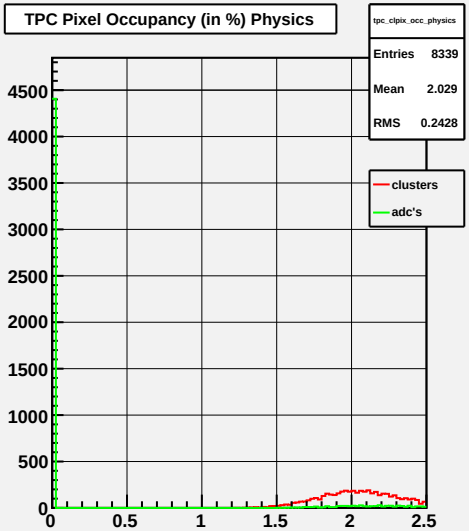

Bunch Crossing Counter (Blue)
B Events
B Filled
B Up
B Down
B Unpol
0
20
40
60
80
100
0
20
40
60
80
100

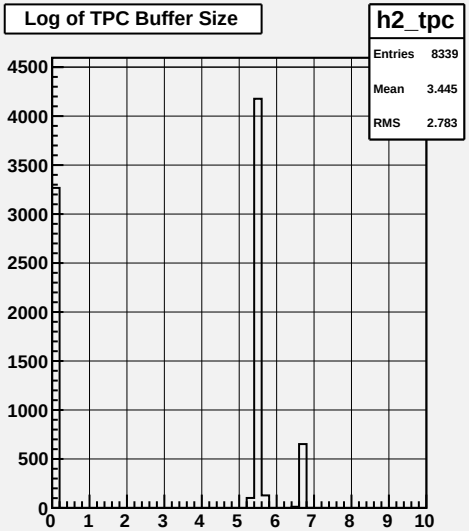

Bunch Crossing Counter (Yellow)
Y Events
Y Filled
Y Up
Y Down
Y Unpol
0
20
40
60
80
100
0
20
40
60
80
100

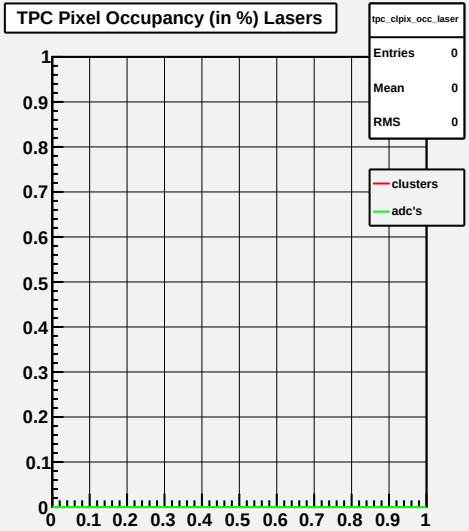

Azimuthal Distribution of TPC Charge
×10^6
240
220
200
180
160
140
120
100
80
60
40
20
0
-150
-100
-50
0
50
100
150
adc's
clusters

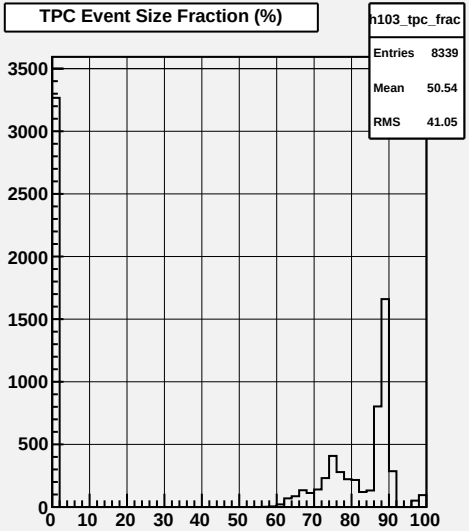

TPC Charge per Sector
×10^6
3000
2500
2000
1500
1000
500
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

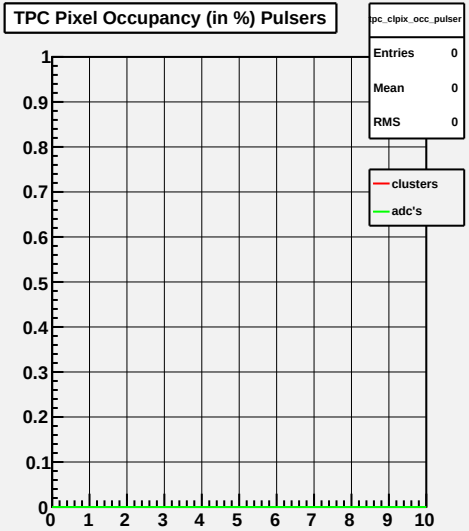

Log of Event Size
h0_evt_size
Entries 8339
Mean 5.276
RMS 0.681

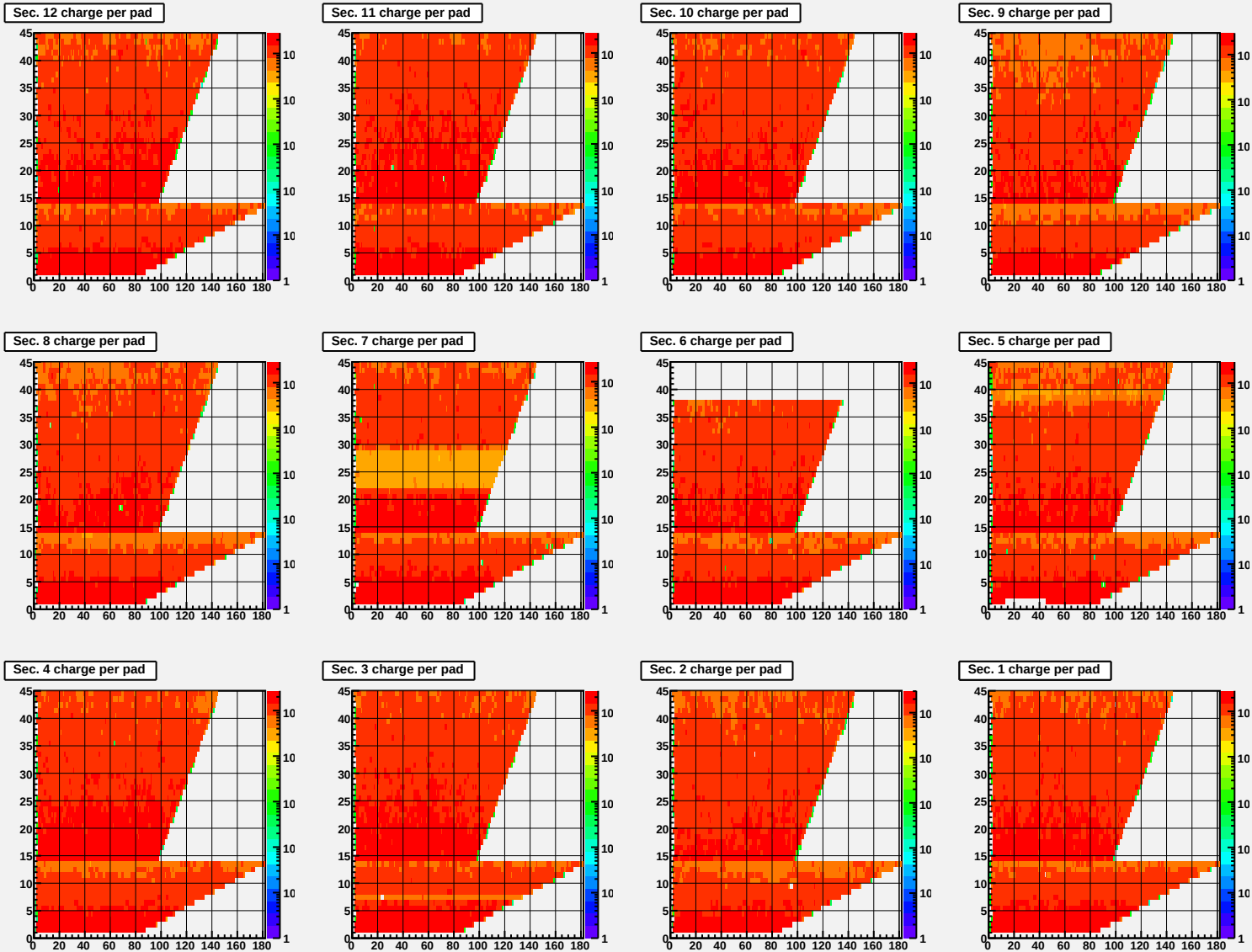

TPC Pixel Occupancy (in %) Physics
tpc_clpix_occ_physics
Entries 8339
Mean 2.029
RMS 0.2428
clusters
adc's

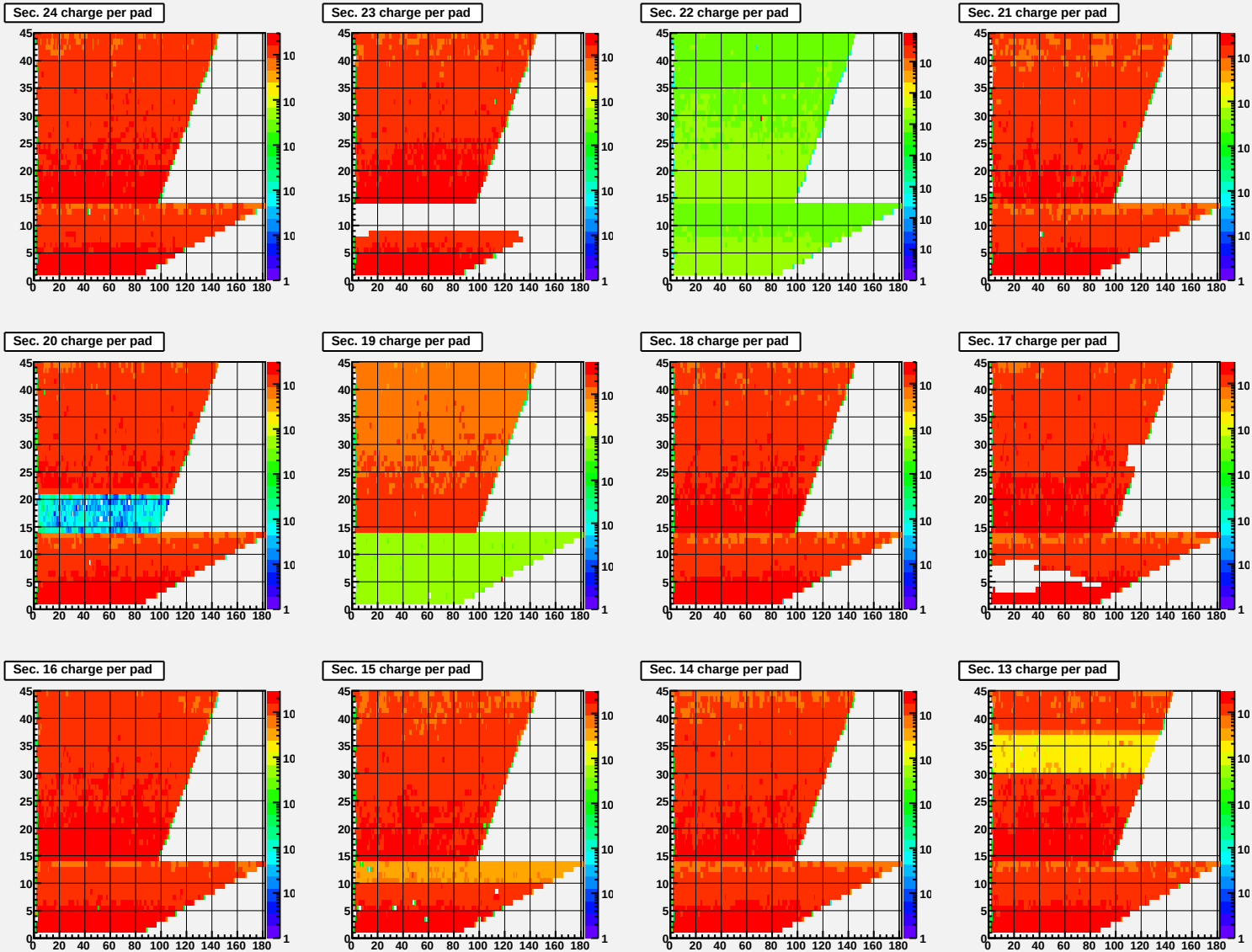

Log of TPC Buffer Size
h2_tpc
Entries 8339
Mean 3.445
RMS 2.783

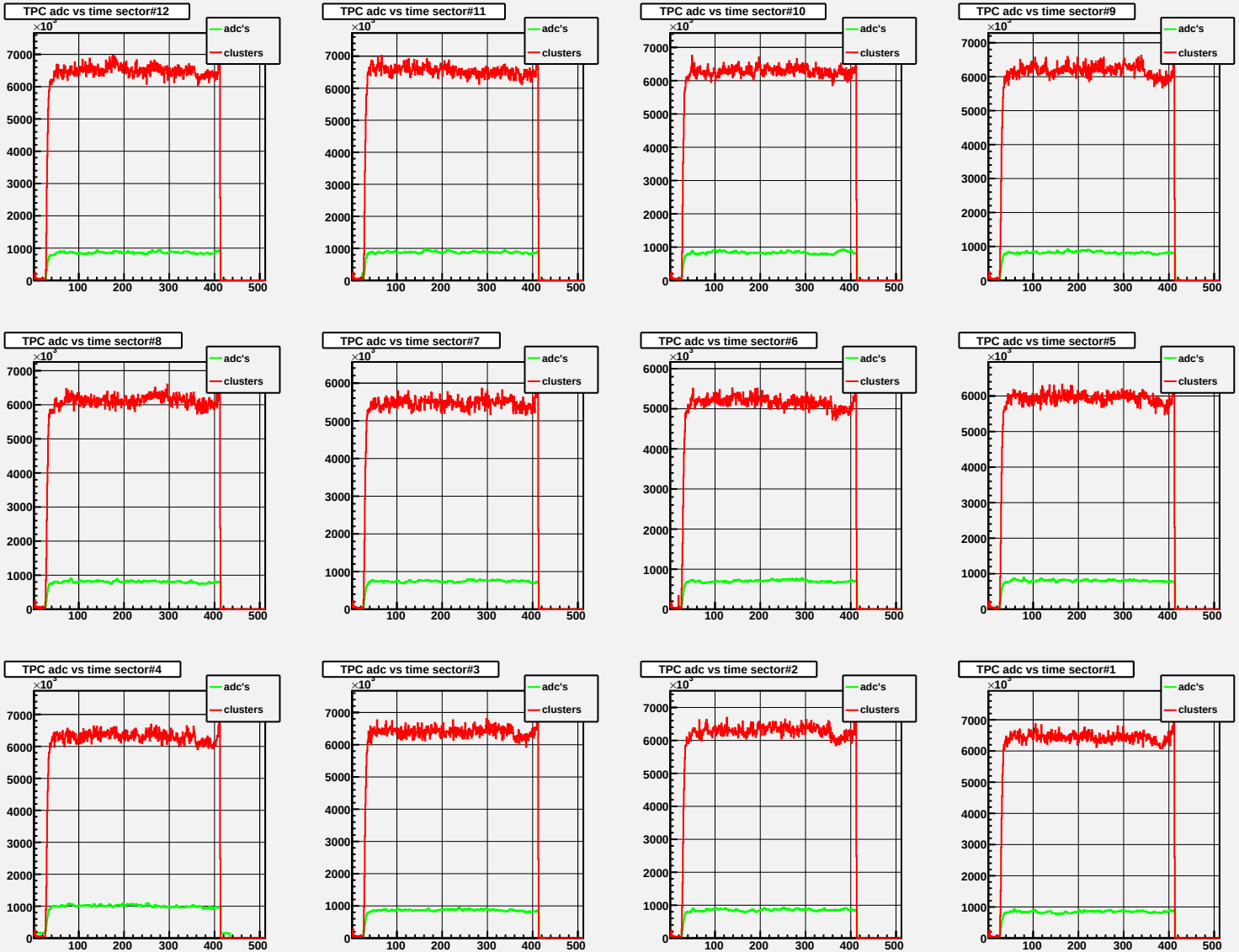

TPC Pixel Occupancy (in %) Lasers
tpc_clpix_occ_laser
Entries 0
Mean 0
RMS 0
clusters
adc's

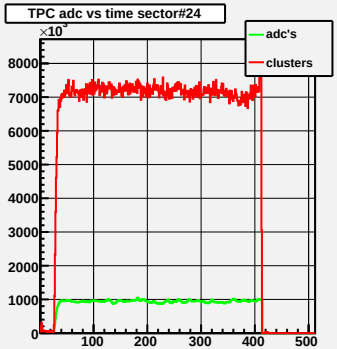

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 8339
Mean 50.54
RMS 41.05

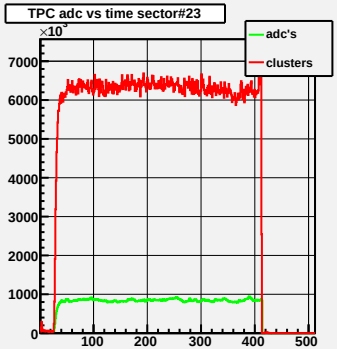

TPC Pixel Occupancy (in %) Pulsers
tpc_clpix_occ_pulser
Entries 0
Mean 0
RMS 0
clusters
adc's

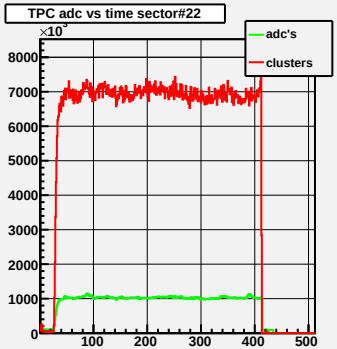

Sec. 12 charge per pad
Sec. 11 charge per pad
Sec. 10 charge per pad
Sec. 9 charge per pad
Sec. 8 charge per pad
Sec. 7 charge per pad
Sec. 6 charge per pad
Sec. 5 charge per pad
Sec. 4 charge per pad
Sec. 3 charge per pad
Sec. 2 charge per pad
Sec. 1 charge per pad

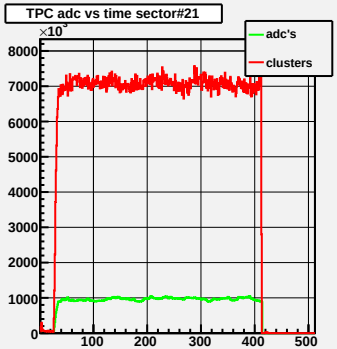

Sec. 24 charge per pad
Sec. 23 charge per pad
Sec. 22 charge per pad
Sec. 21 charge per pad
Sec. 20 charge per pad
Sec. 19 charge per pad
Sec. 18 charge per pad
Sec. 17 charge per pad
Sec. 16 charge per pad
Sec. 15 charge per pad
Sec. 14 charge per pad
Sec. 13 charge per pad

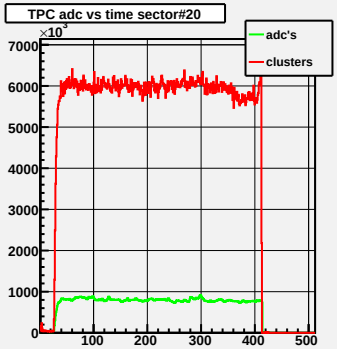

TPC adc vs time sector#12
TPC adc vs time sector#11
TPC adc vs time sector#10
TPC adc vs time sector#9
TPC adc vs time sector#8
TPC adc vs time sector#7
TPC adc vs time sector#6
TPC adc vs time sector#5
TPC adc vs time sector#4
TPC adc vs time sector#3
TPC adc vs time sector#2
TPC adc vs time sector#1
adc's
clusters
×10³
0
1000
2000
3000
4000
5000
6000
7000
100
200
300
400
500

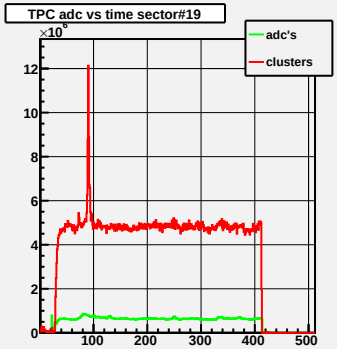

TPC adc vs time sector#24
adc's
clusters

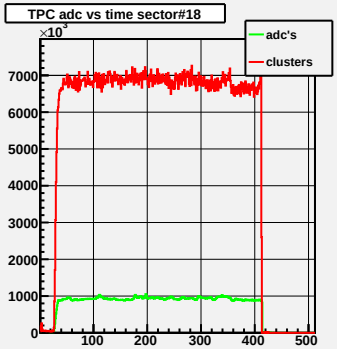

TPC adc vs time sector#23
adc's
clusters

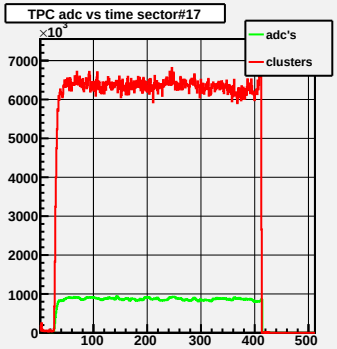

TPC adc vs time sector#22
adc's
clusters

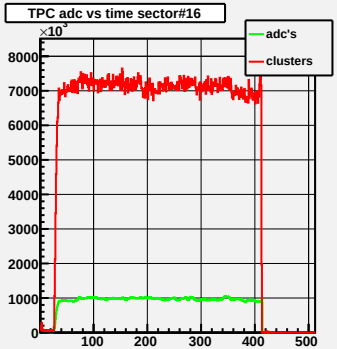

TPC adc vs time sector#21
adc's
clusters

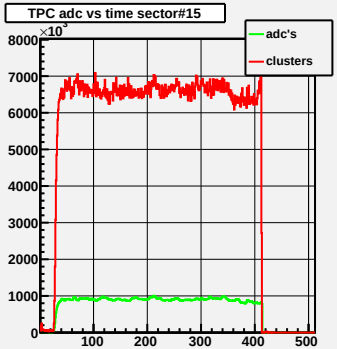

TPC adc vs time sector#20
adc's
clusters

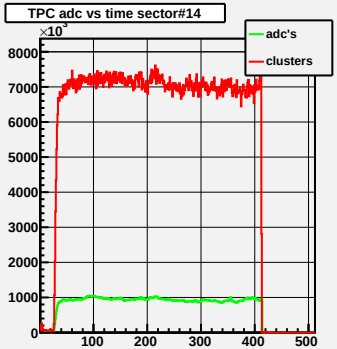

TPC adc vs time sector#19
adc's
clusters

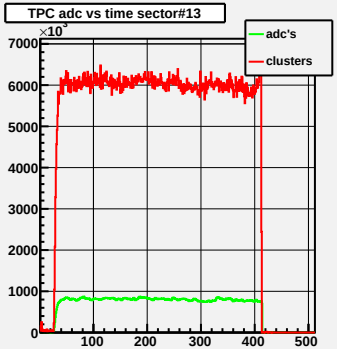

TPC adc vs time sector#18
adc's
clusters

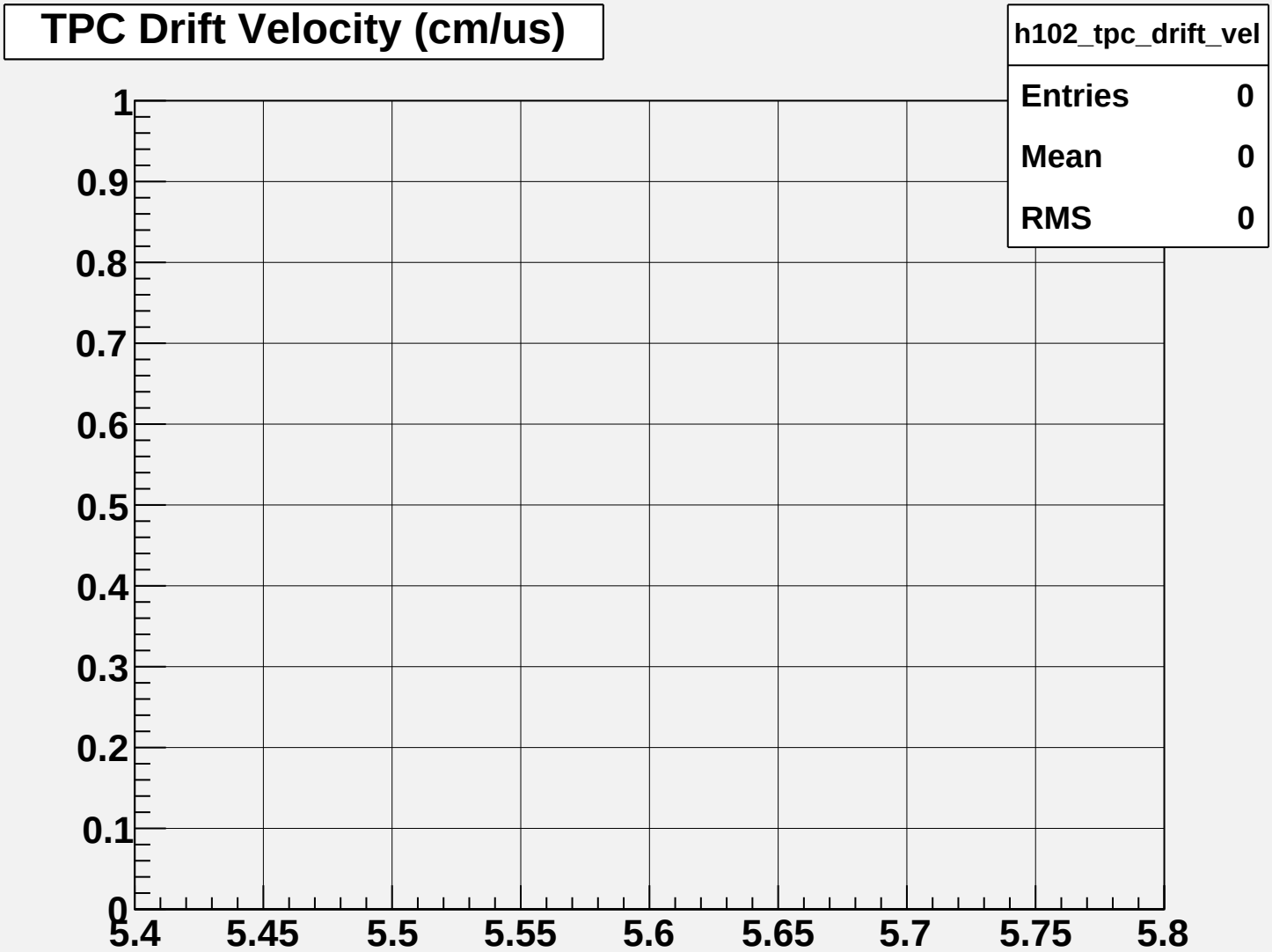

TPC adc vs time sector#17
adc's
clusters

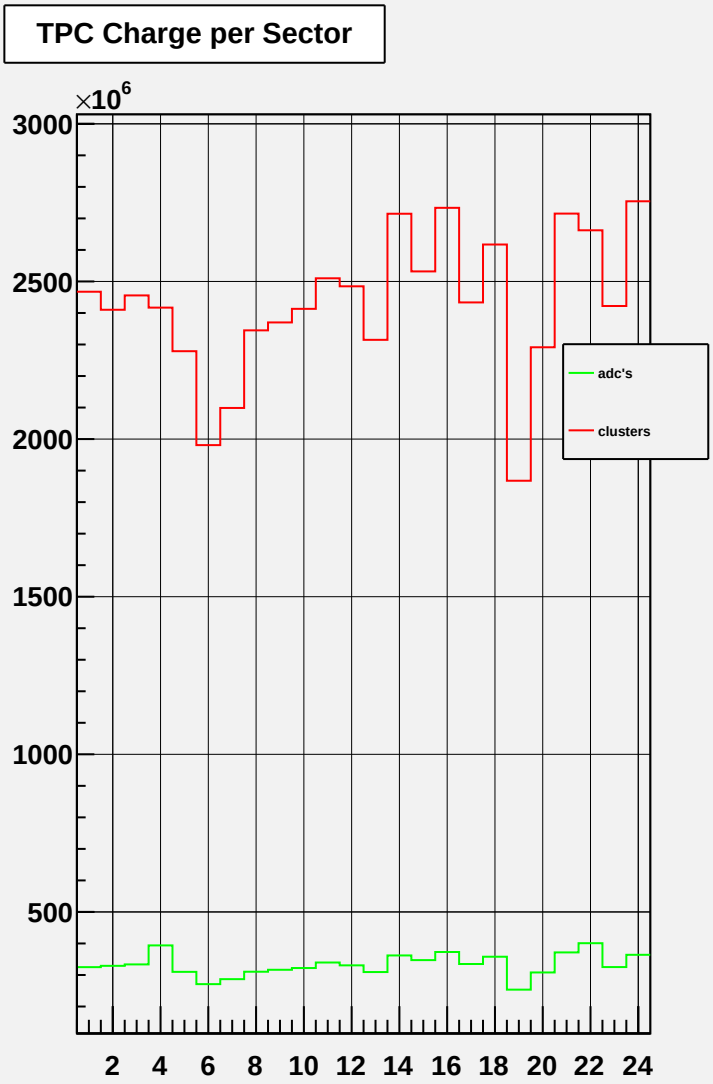

TPC adc vs time sector#16
adc's
clusters

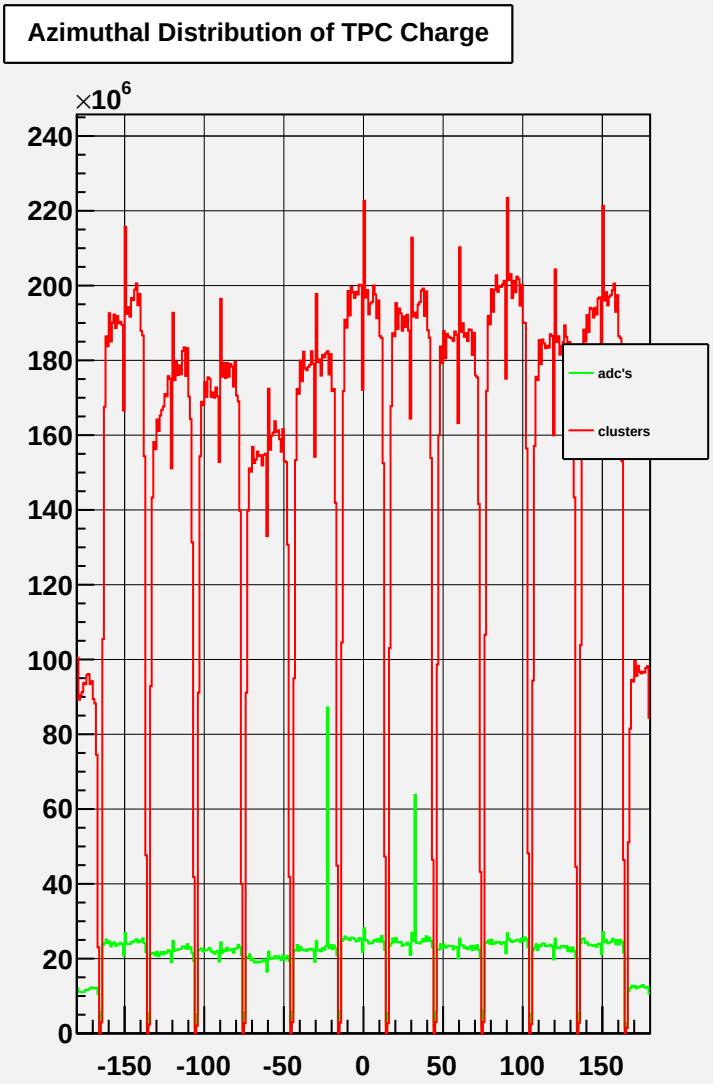

TPC adc vs time sector#15
adc's
clusters

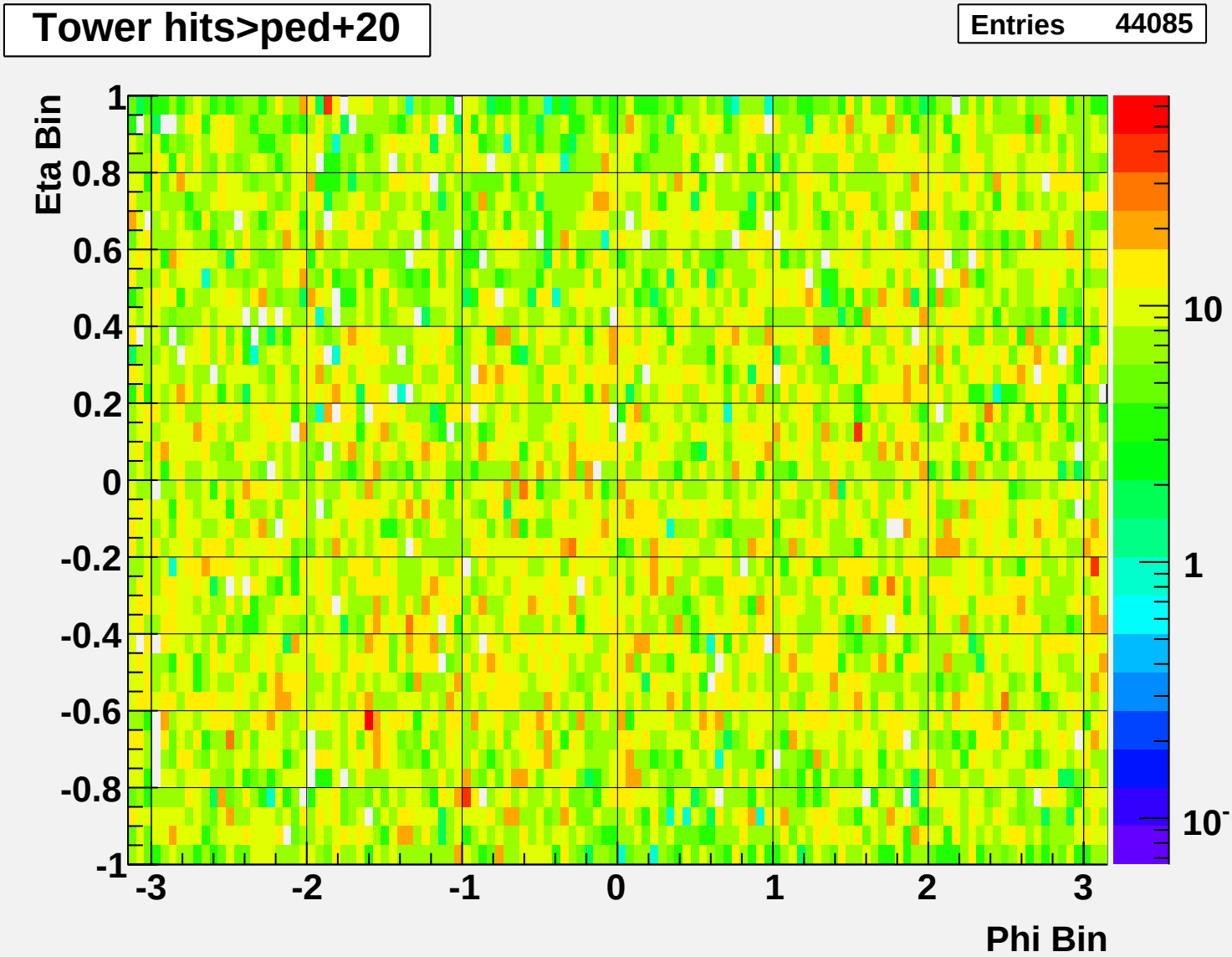

TPC adc vs time sector#14
adc's
clusters

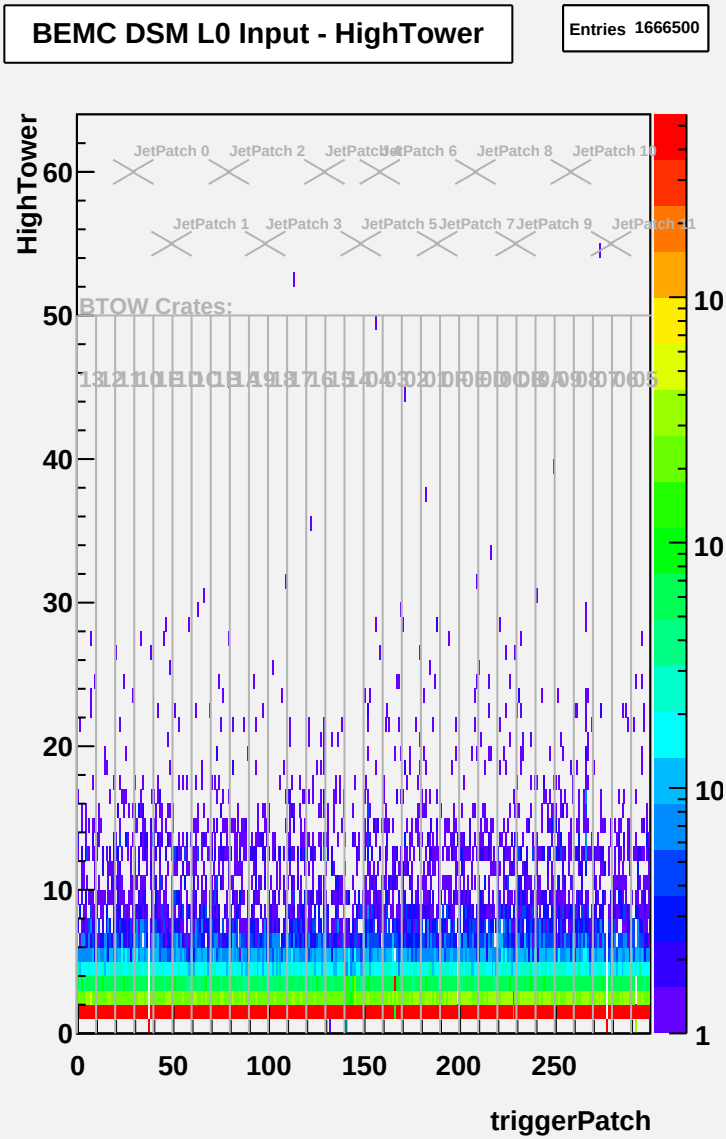

TPC adc vs time sector#13
adc's
clusters

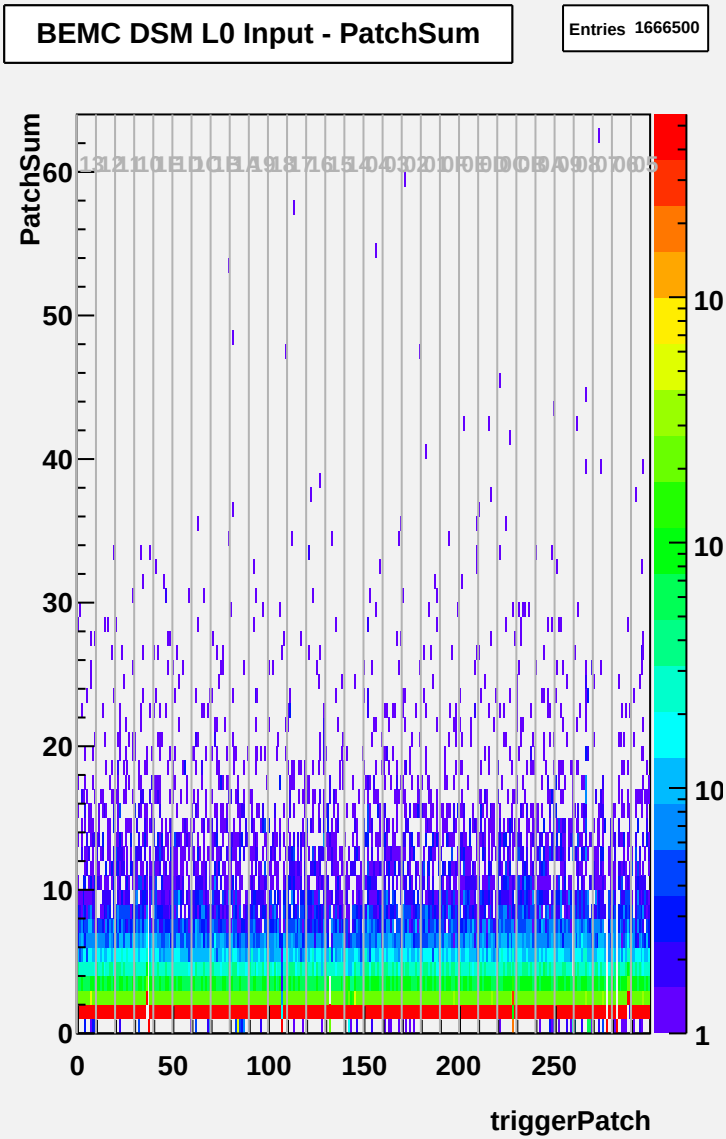

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

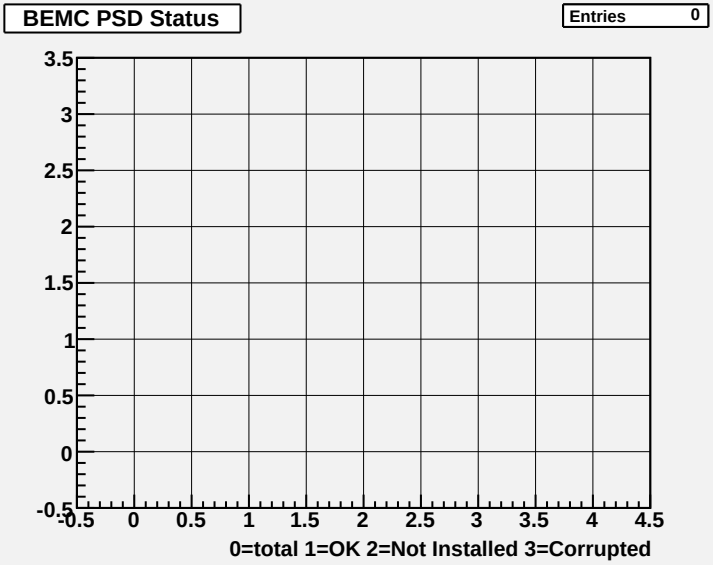

TPC Charge per Sector
×10^6
3000
2500
2000
1500
1000
500
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

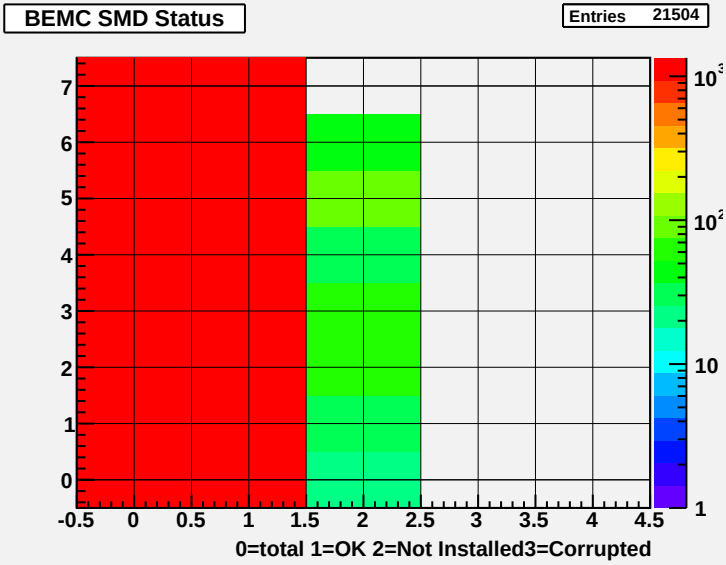

Azimuthal Distribution of TPC Charge
×10^6
240
220
200
180
160
140
120
100
80
60
40
20
0
-150
-100
-50
0
50
100
150
adc's
clusters

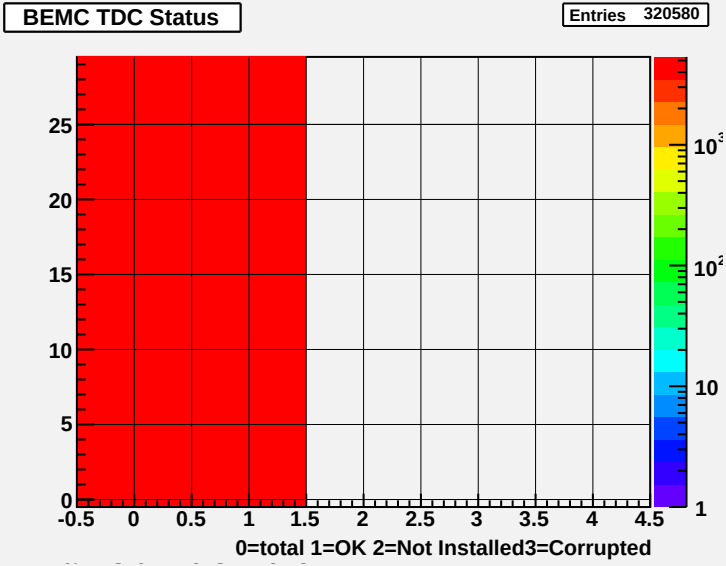

Tower hits>ped+20
Entries 44085
Eta Bin
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-3
-2
-1
0
1
2
3
Phi Bin
10
1
10

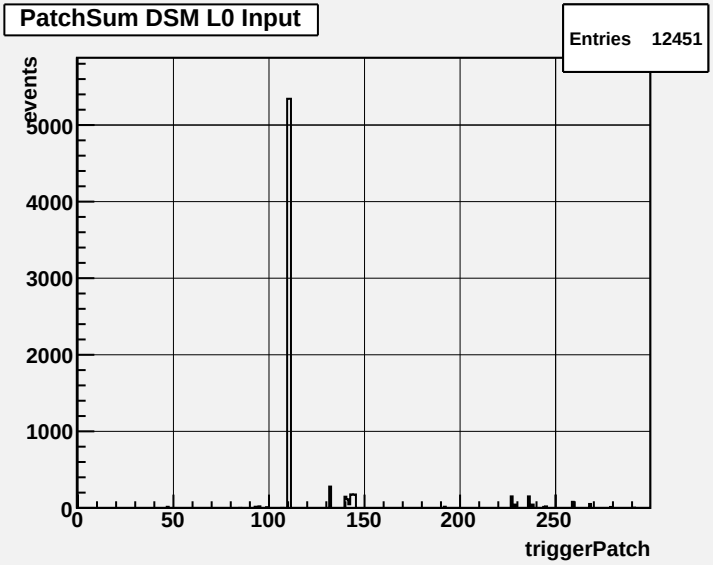

BEMC DSM L0 Input - HighTower
Entries 1666500
HighTower
triggerPatch
JetPatch 0
JetPatch 2
JetPatch 4
JetPatch 6
JetPatch 8
JetPatch 10
JetPatch 1
JetPatch 3
JetPatch 5
JetPatch 7
JetPatch 9
JetPatch 11
BTOW Crates:

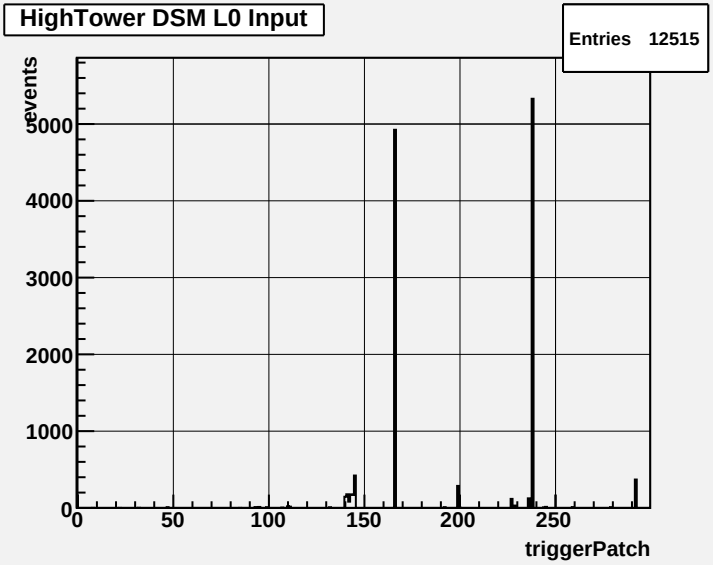

BEMC DSM L0 Input - PatchSum
Entries 1666500
PatchSum
triggerPatch

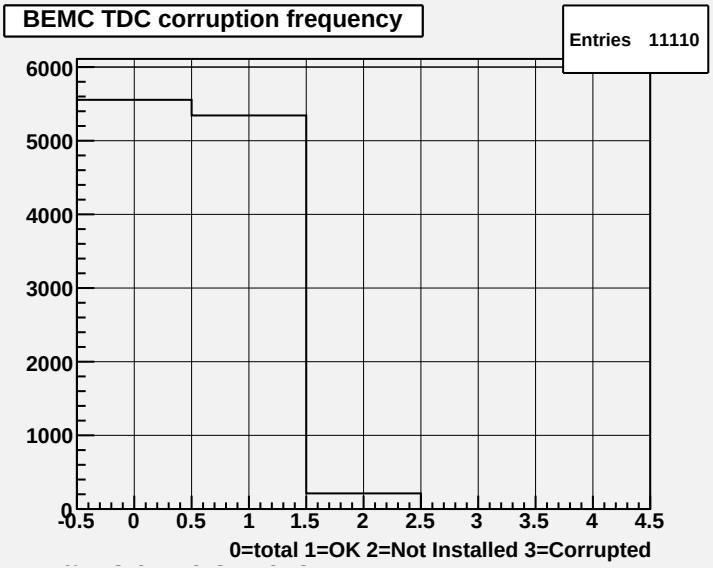

BEMC PSD Status
Entries 0
0=total 1=OK 2=Not Installed 3=Corrupted

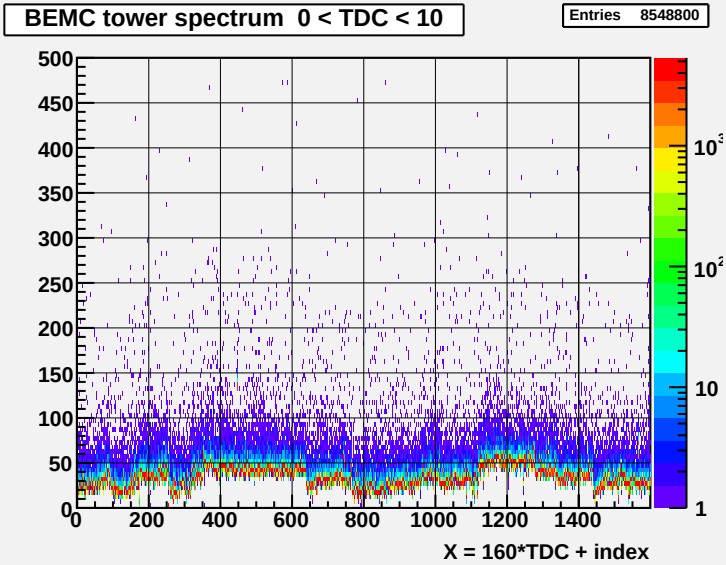

BEMC SMD Status
Entries 21504
0=total 1=OK 2=Not Installed3=Corrupted

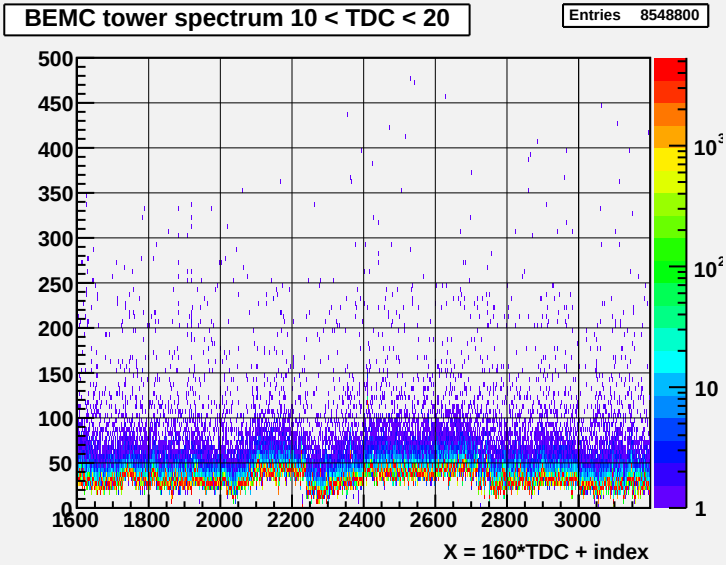

BEMC TDC Status
Entries 320580
0=total 1=OK 2=Not Installed3=Corrupted

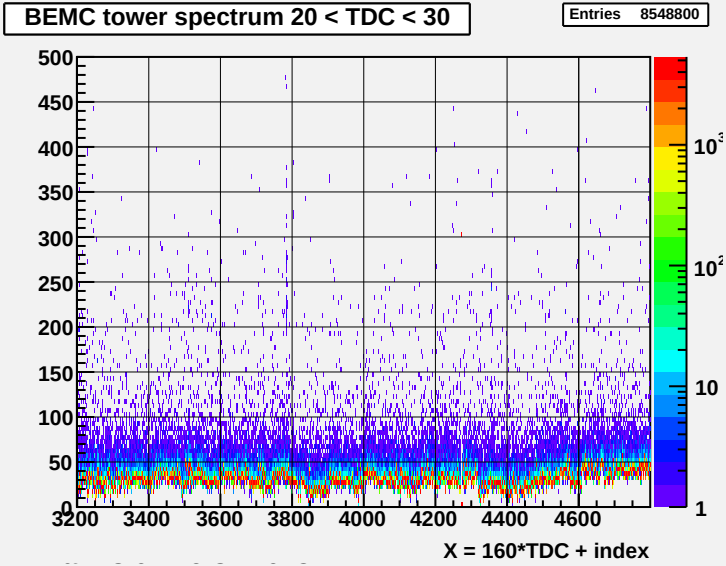

PatchSum DSM L0 Input
Entries 12451
events
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
triggerPatch

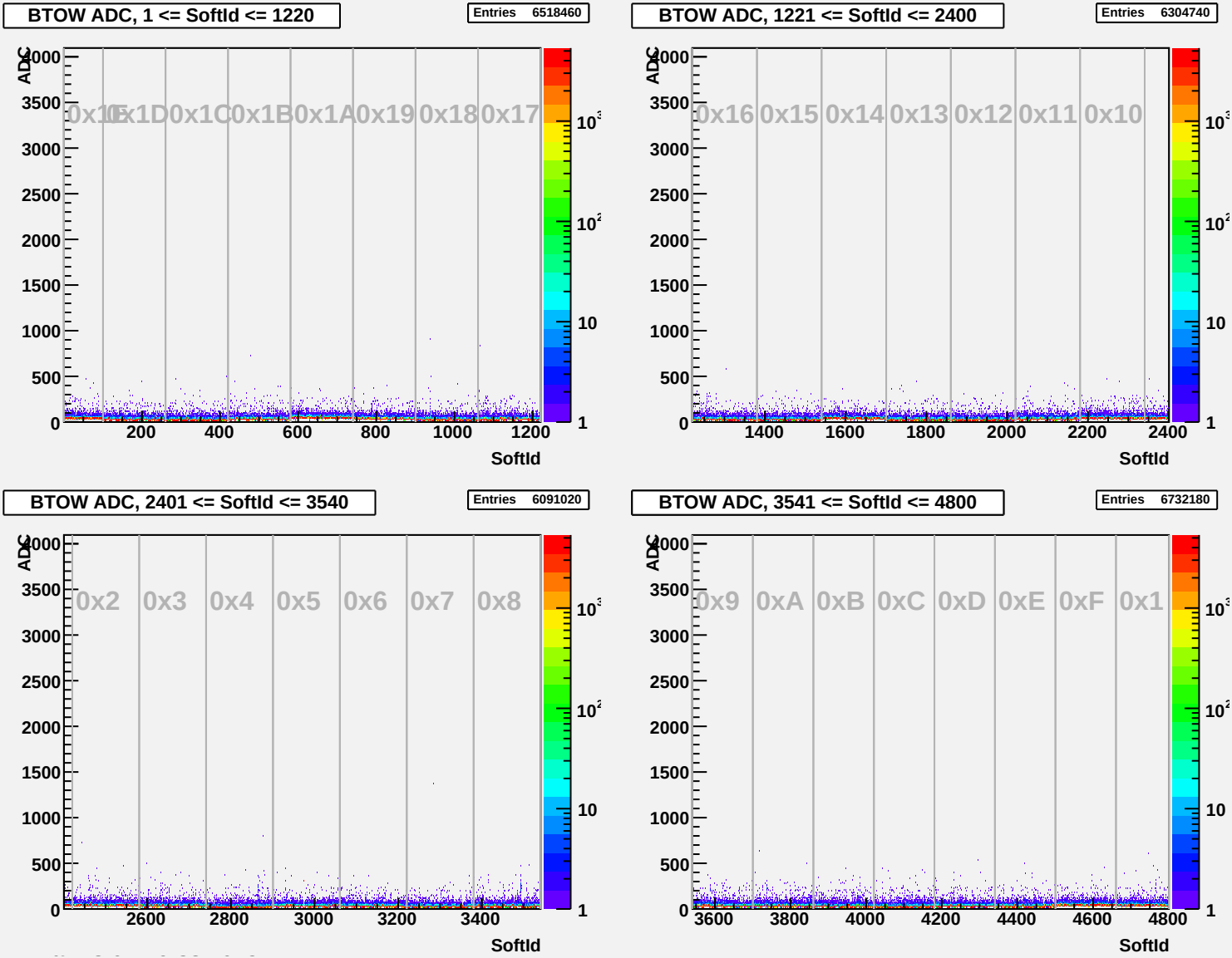

HighTower DSM L0 Input
Entries 12515
events
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
triggerPatch

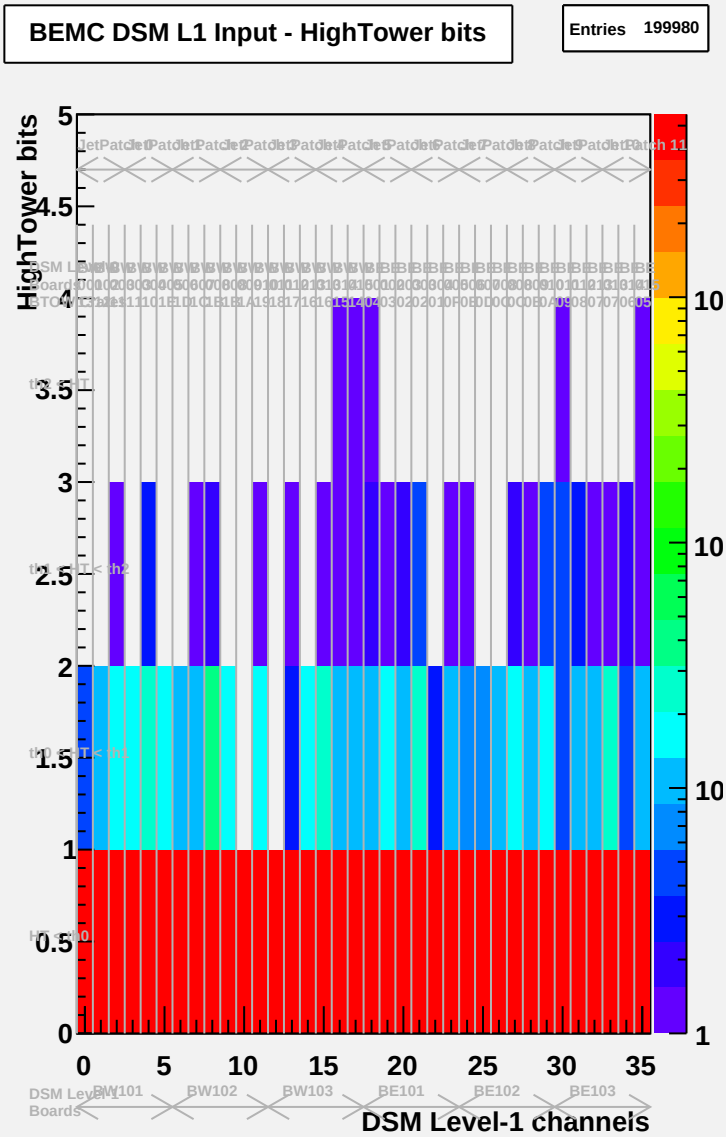

BEMC TDC corruption frequency
Entries 11110
6000
5000
4000
3000
2000
1000
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0=total 1=OK 2=Not Installed 3=Corrupted

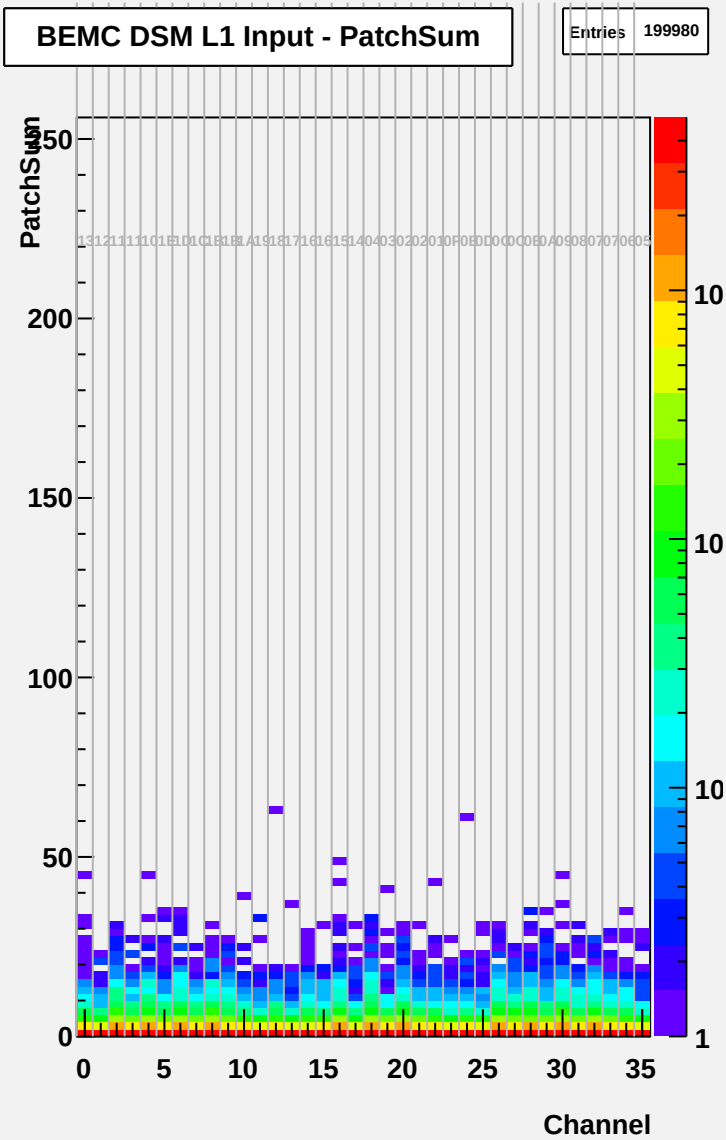

BEMC tower spectrum 0 < TDC < 10
Entries 8548800
X = 160*TDC + index

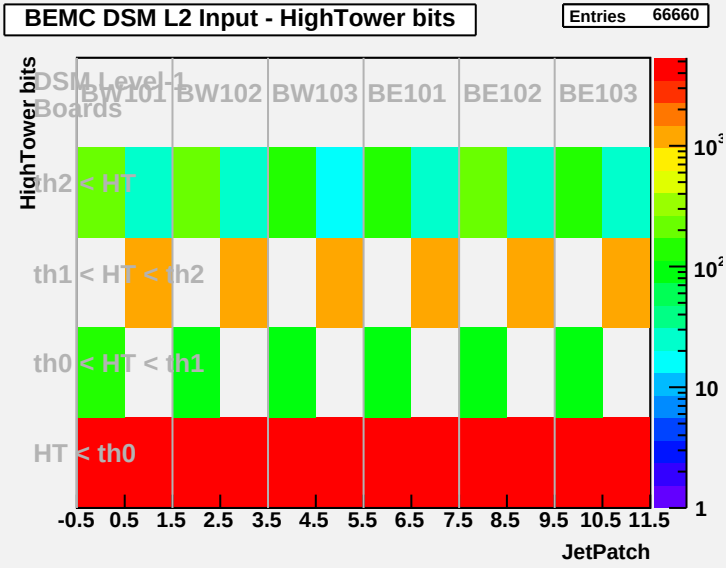

BEMC tower spectrum 10 < TDC < 20
Entries 8548800
X = 160*TDC + index

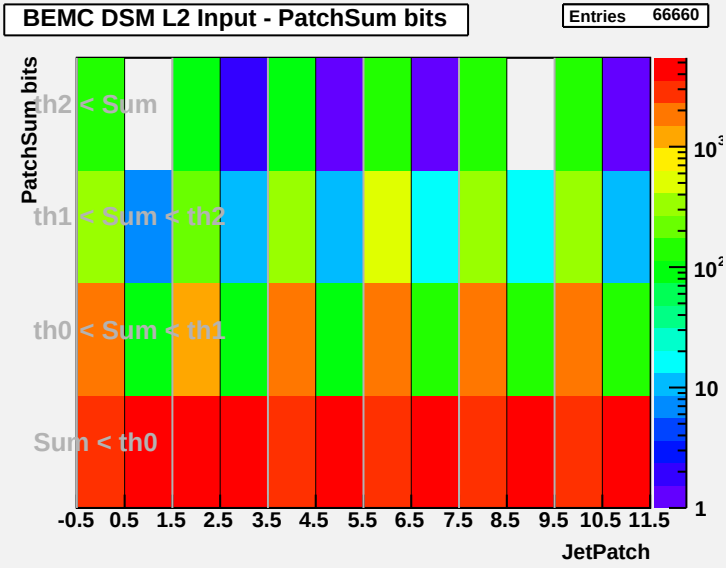

BEMC tower spectrum 20 < TDC < 30
Entries 8548800
X = 160*TDC + index

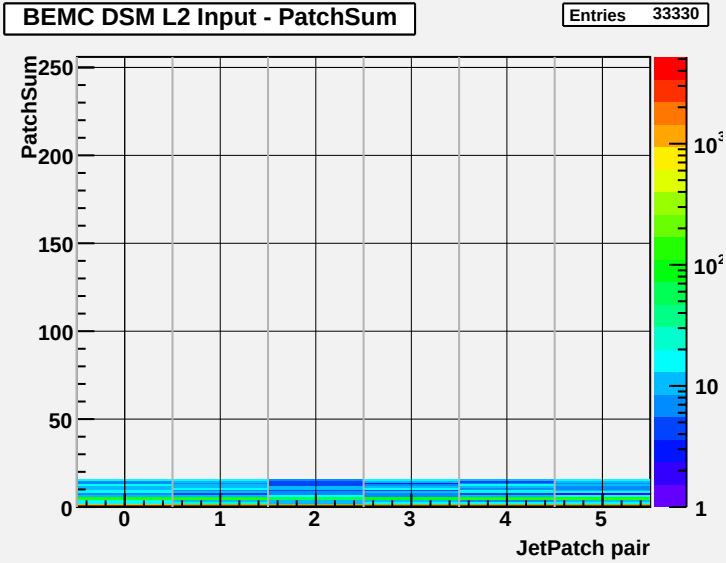

BTOW ADC, 1 <= SoftId <= 1220
Entries 6518460
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
ADC
SoftId
BTOW ADC, 1221 <= SoftId <= 2400
Entries 6304740
0x16 0x15 0x14 0x13 0x12 0x11 0x10
ADC
SoftId
BTOW ADC, 2401 <= SoftId <= 3540
Entries 6091020
0x2 0x3 0x4 0x5 0x6 0x7 0x8
ADC
SoftId
BTOW ADC, 3541 <= SoftId <= 4800
Entries 6732180
0x9 0xA 0xB 0xC 0xD 0xE 0xF 0x1
ADC
SoftId

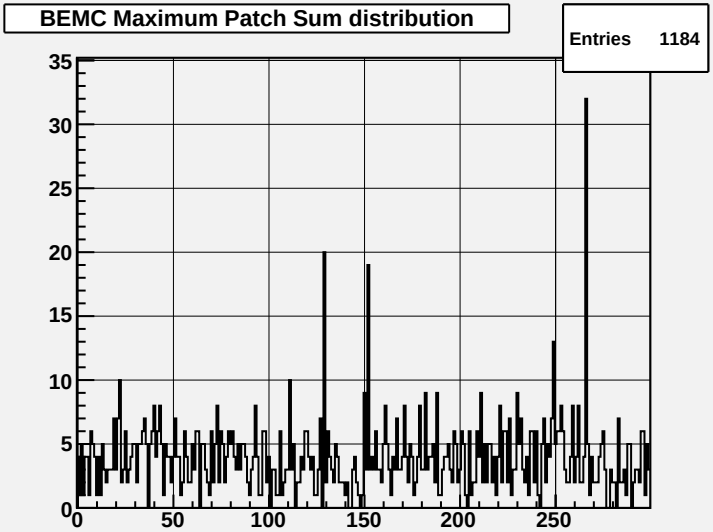

BEMC DSM L1 Input - HighTower bits
Entries 199980
HighTower bits
DSM Level-1 channels
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103

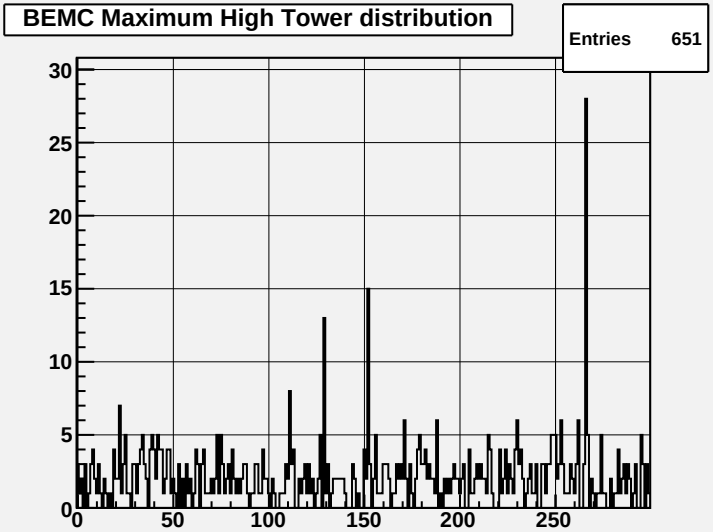

BEMC DSM L1 Input - PatchSum
Entries 199980
PatchSum
Channel

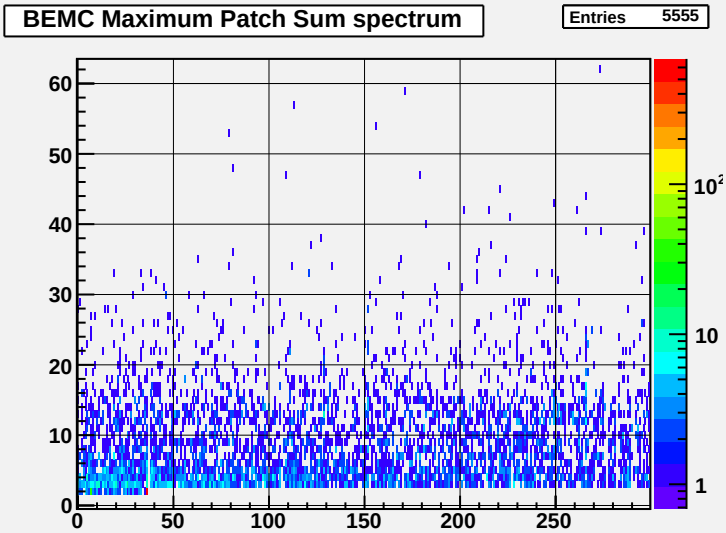

BEMC DSM L2 Input - HighTower bits
Entries 66660
DSM Level-1 Boards
BW101 BW102 BW103 BE101 BE102 BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
HighTower bits
JetPatch
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
1 10 10² 10³

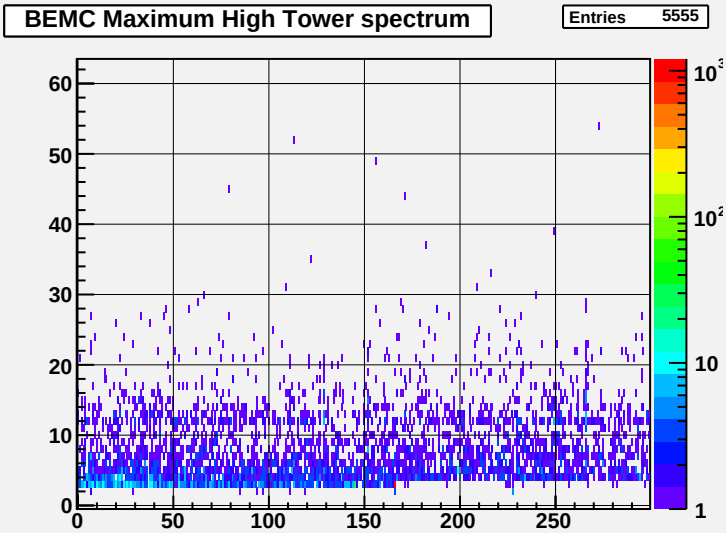

BEMC DSM L2 Input - PatchSum bits
Entries 66660
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
PatchSum bits
JetPatch
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
1 10 10² 10³

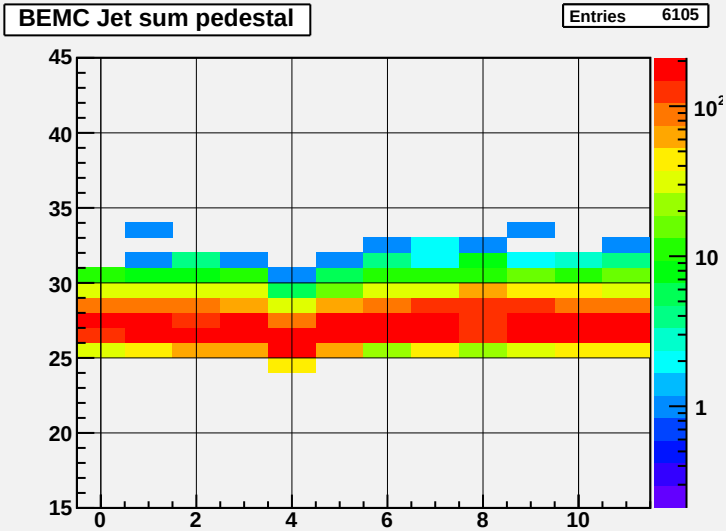

BEMC DSM L2 Input - PatchSum
Entries 33330
PatchSum
0 50 100 150 200 250
JetPatch pair
0 1 2 3 4 5
1 10 10² 10³

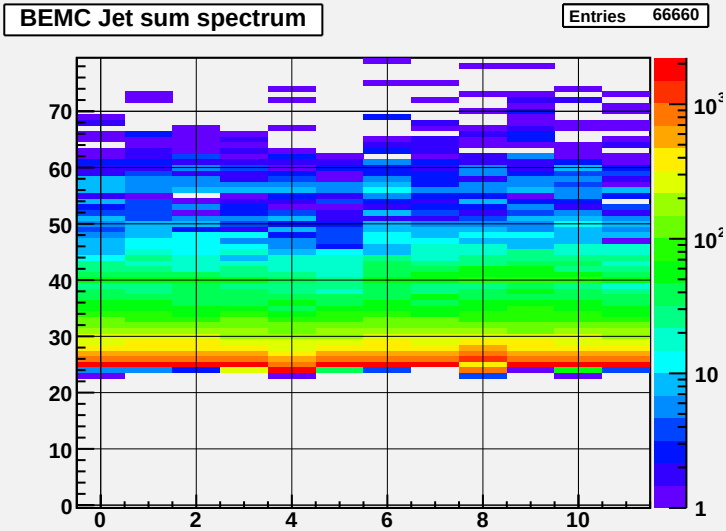

BEMC Maximum Patch Sum distribution
Entries 1184
0
5
10
15
20
25
30
35
0
50
100
150
200
250

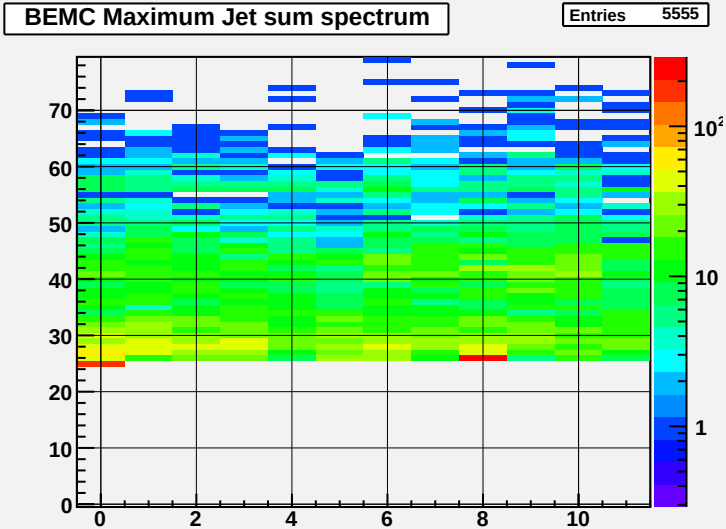

BEMC Maximum High Tower distribution
Entries 651
0
5
10
15
20
25
30
0
50
100
150
200
250

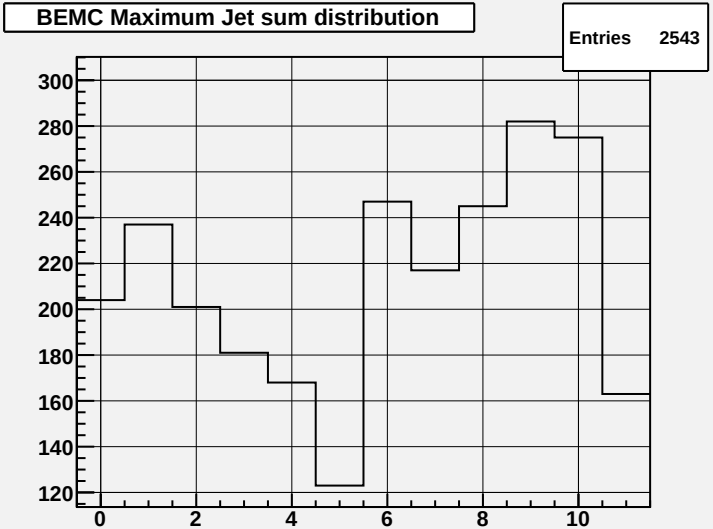

BEMC Maximum Patch Sum spectrum
Entries 5555
0
10
20
30
40
50
60
0
50
100
150
200
250
10^2
10
1

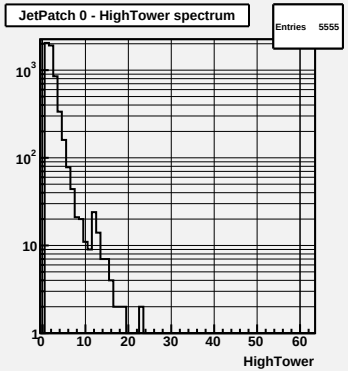

BEMC Maximum High Tower spectrum
Entries 5555
0
10
20
30
40
50
60
0
50
100
150
200
250
10^3
10^2
10
1

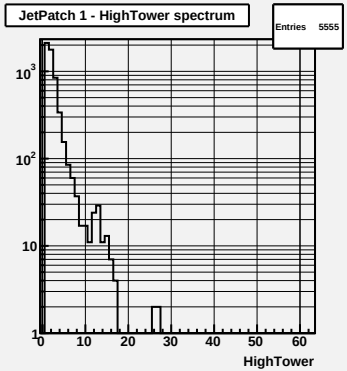

BEMC Jet sum pedestal
Entries 6105

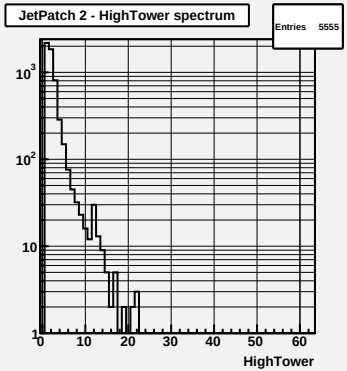

BEMC Jet sum spectrum
Entries 66660

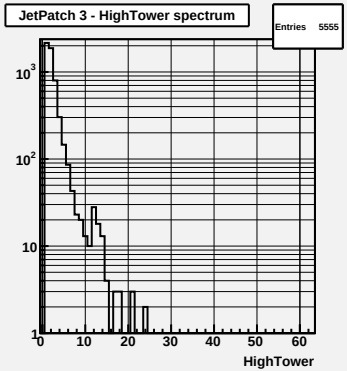

BEMC Maximum Jet sum spectrum
Entries 5555

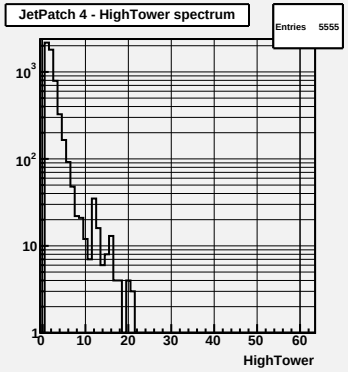

BEMC Maximum Jet sum distribution
Entries 2543

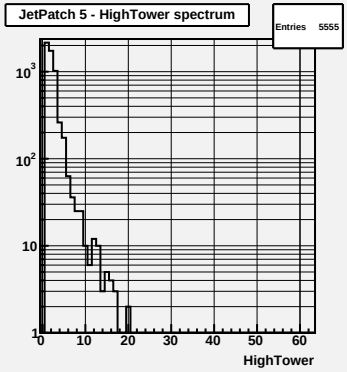

JetPatch 0 - HighTower spectrum
Entries 5555
HighTower

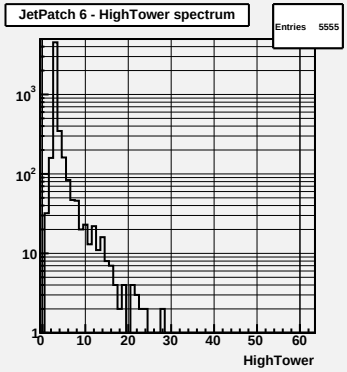

JetPatch 1 - HighTower spectrum
Entries 5555
HighTower

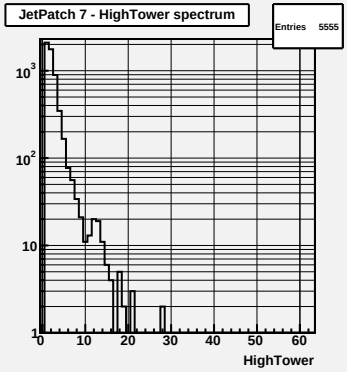

JetPatch 2 - HighTower spectrum
Entries 5555
HighTower

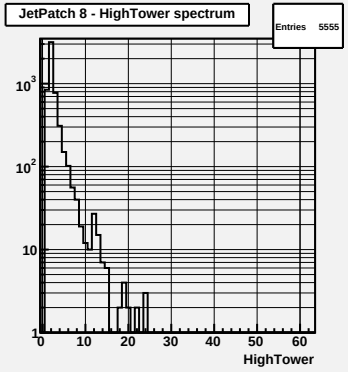

JetPatch 3 - HighTower spectrum
Entries 5555
HighTower

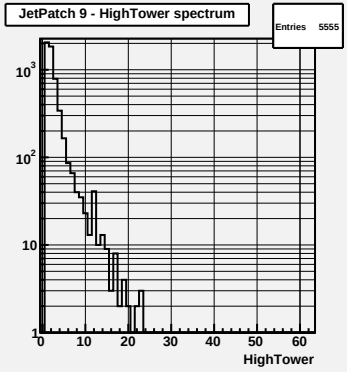

JetPatch 4 - HighTower spectrum
Entries 5555
HighTower

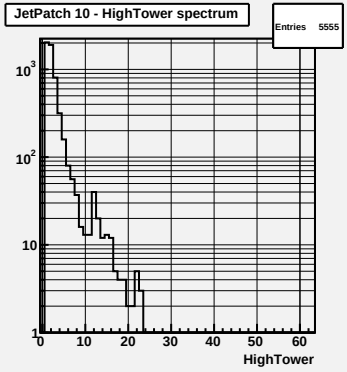

JetPatch 5 - HighTower spectrum
Entries 5555
HighTower

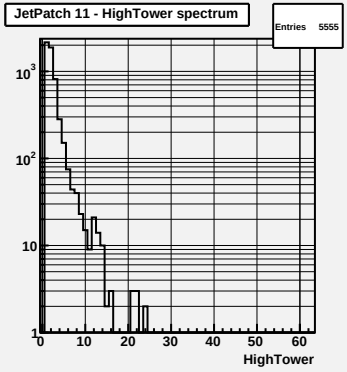

JetPatch 6 - HighTower spectrum
Entries 5555
HighTower

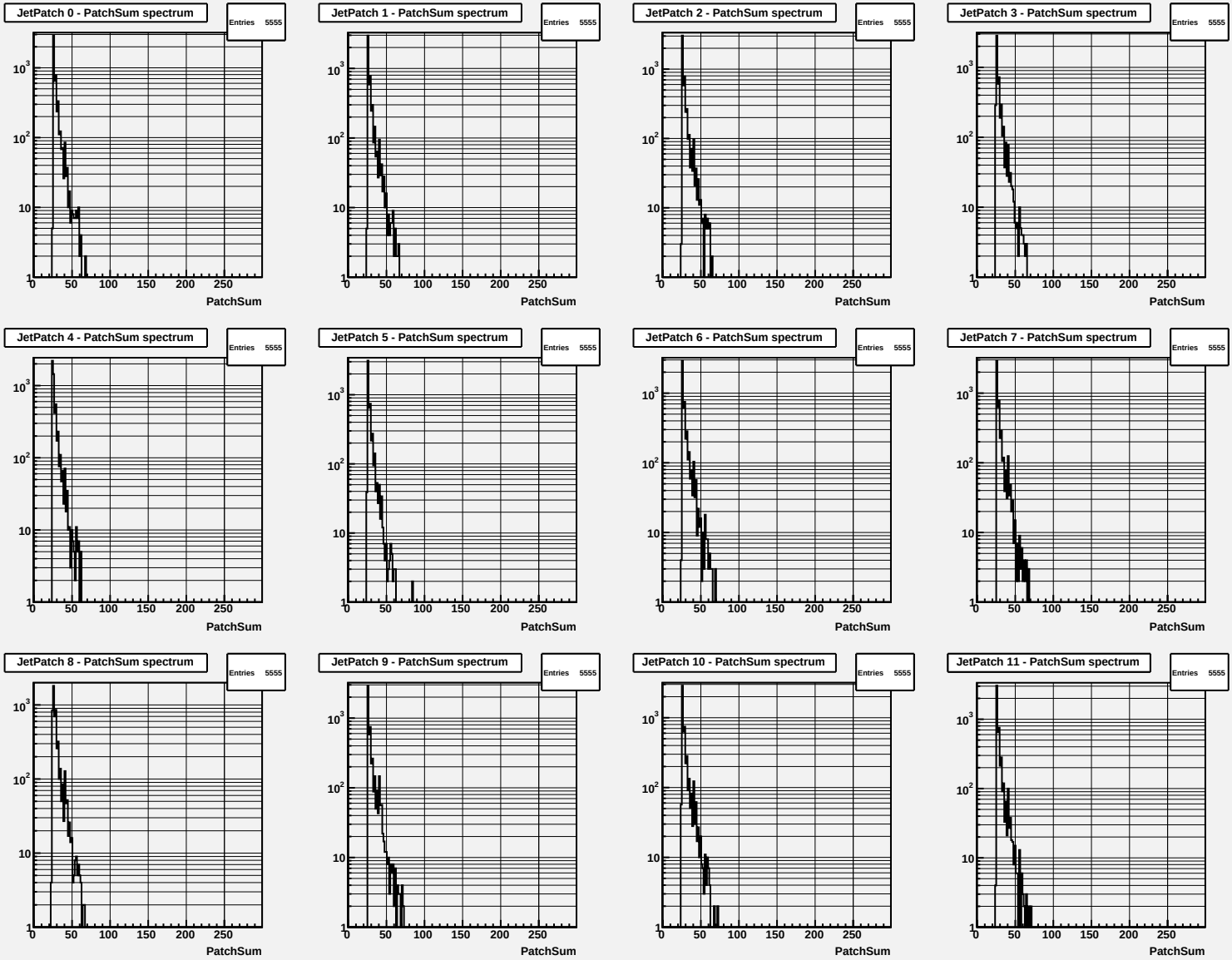

JetPatch 7 - HighTower spectrum
Entries 5555
HighTower

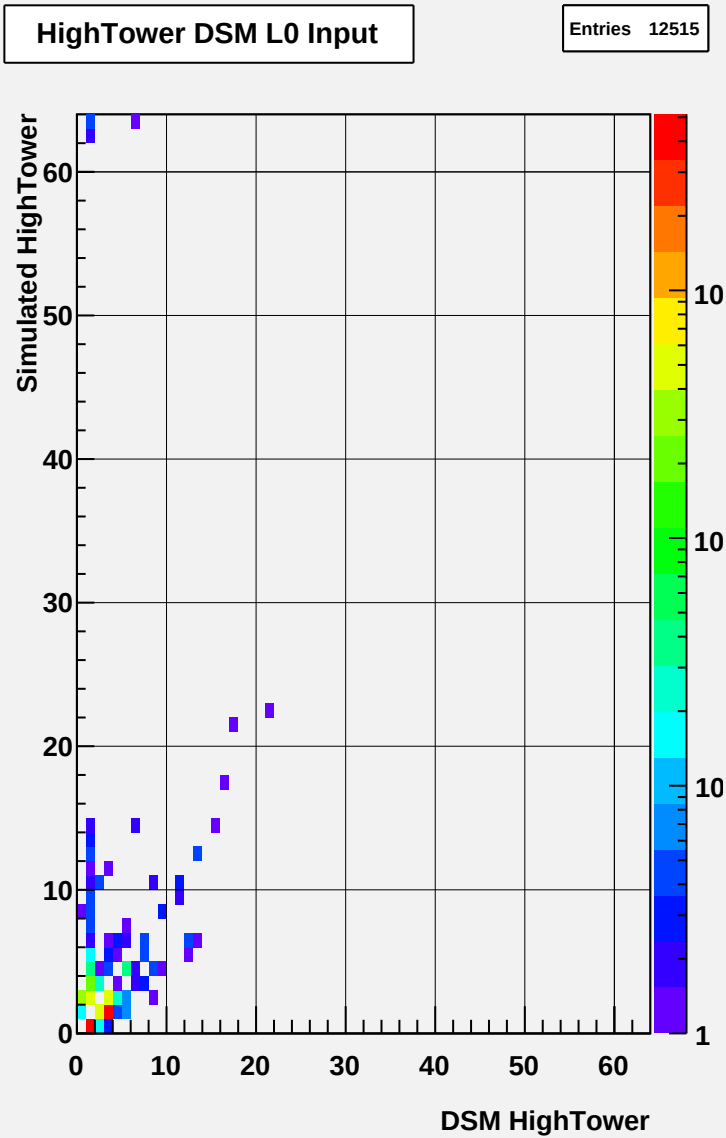

JetPatch 8 - HighTower spectrum
Entries 5555
HighTower

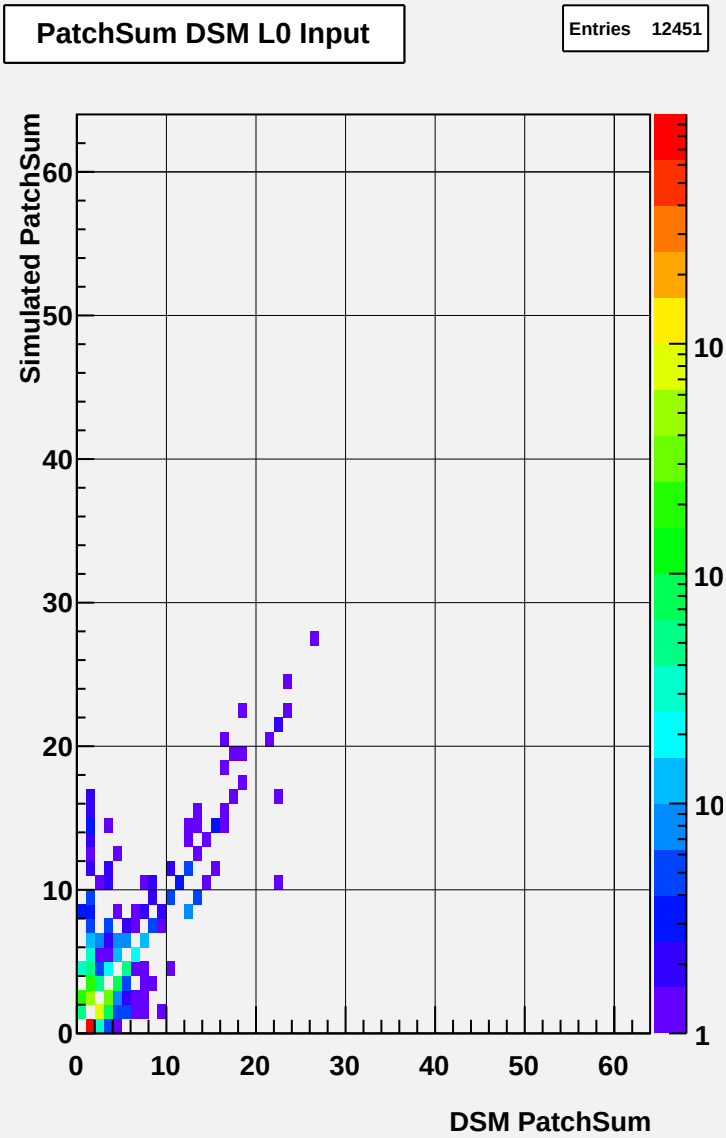

JetPatch 9 - HighTower spectrum
Entries 5555
HighTower

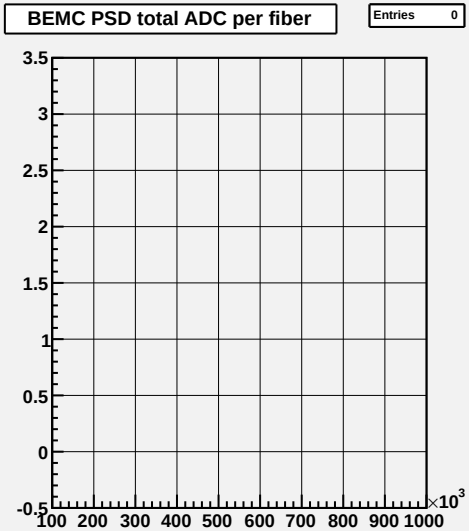

JetPatch 10 - HighTower spectrum
Entries 5555
HighTower

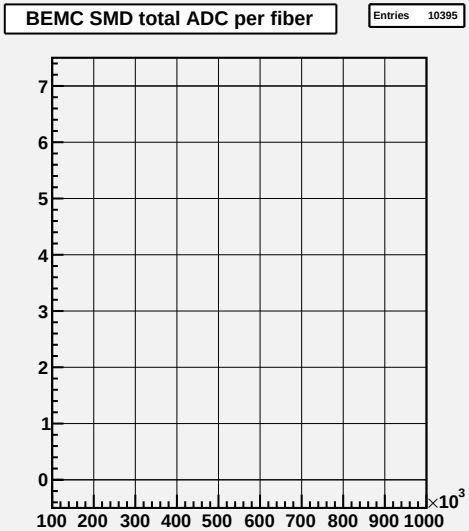

JetPatch 11 - HighTower spectrum
Entries 5555
HighTower

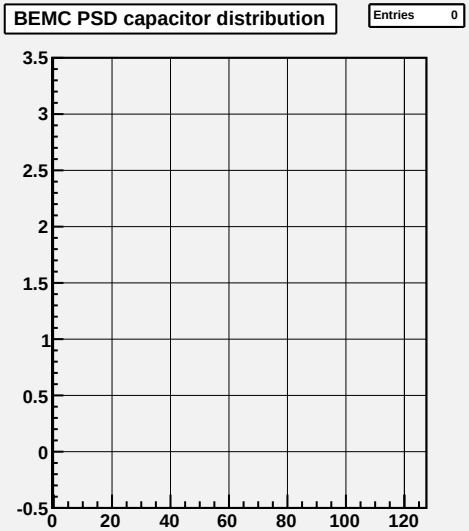

JetPatch 0 - PatchSum spectrum
JetPatch 1 - PatchSum spectrum
JetPatch 2 - PatchSum spectrum
JetPatch 3 - PatchSum spectrum
JetPatch 4 - PatchSum spectrum
JetPatch 5 - PatchSum spectrum
JetPatch 6 - PatchSum spectrum
JetPatch 7 - PatchSum spectrum
JetPatch 8 - PatchSum spectrum
JetPatch 9 - PatchSum spectrum
JetPatch 10 - PatchSum spectrum
JetPatch 11 - PatchSum spectrum
Entries 5555
PatchSum

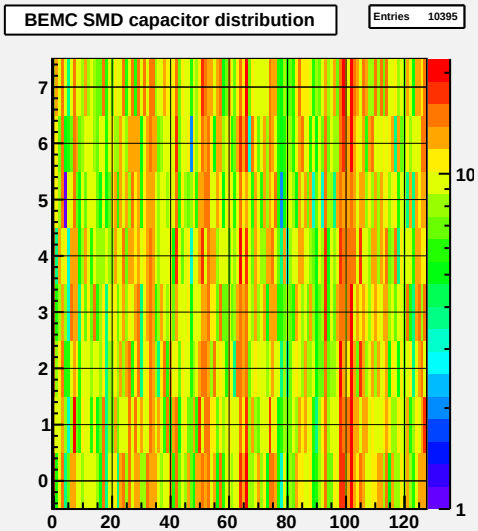

HighTower DSM L0 Input
Entries 12515
Simulated HighTower
DSM HighTower
0
10
20
30
40
50
60
1
10
10
10
10

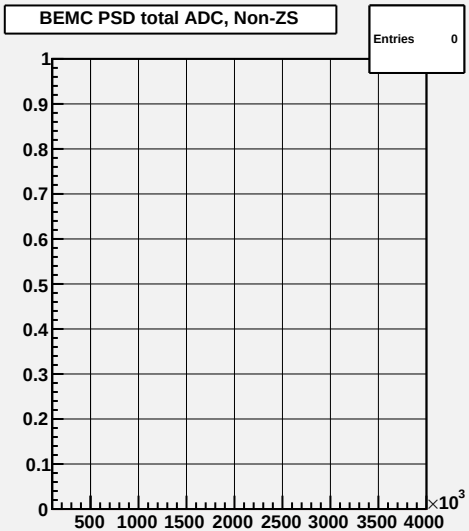

PatchSum DSM L0 Input
Entries 12451
Simulated PatchSum
DSM PatchSum
0
10
20
30
40
50
60
1
10
10
10
10

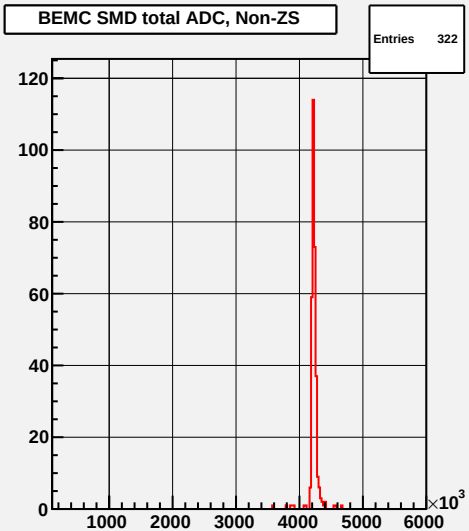

BEMC PSD total ADC per fiber
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
100 200 300 400 500 600 700 800 900 1000
×10^3

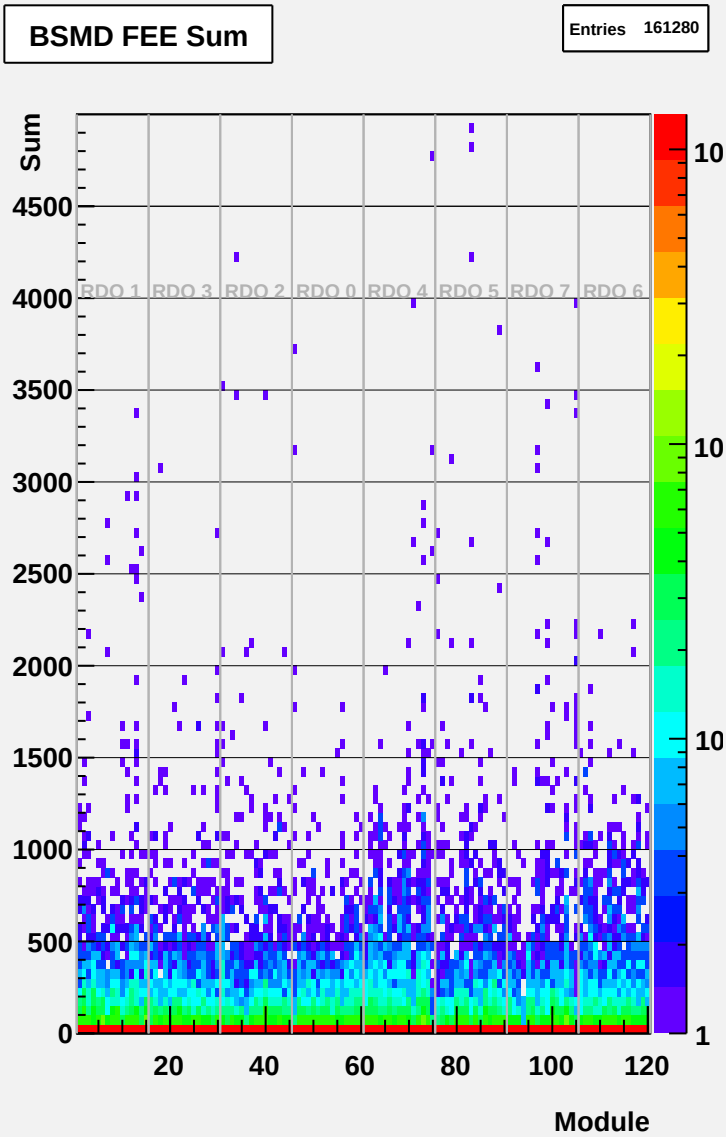

BEMC SMD total ADC per fiber
Entries 10395
7
6
5
4
3
2
1
0
100 200 300 400 500 600 700 800 900 1000
×10^3

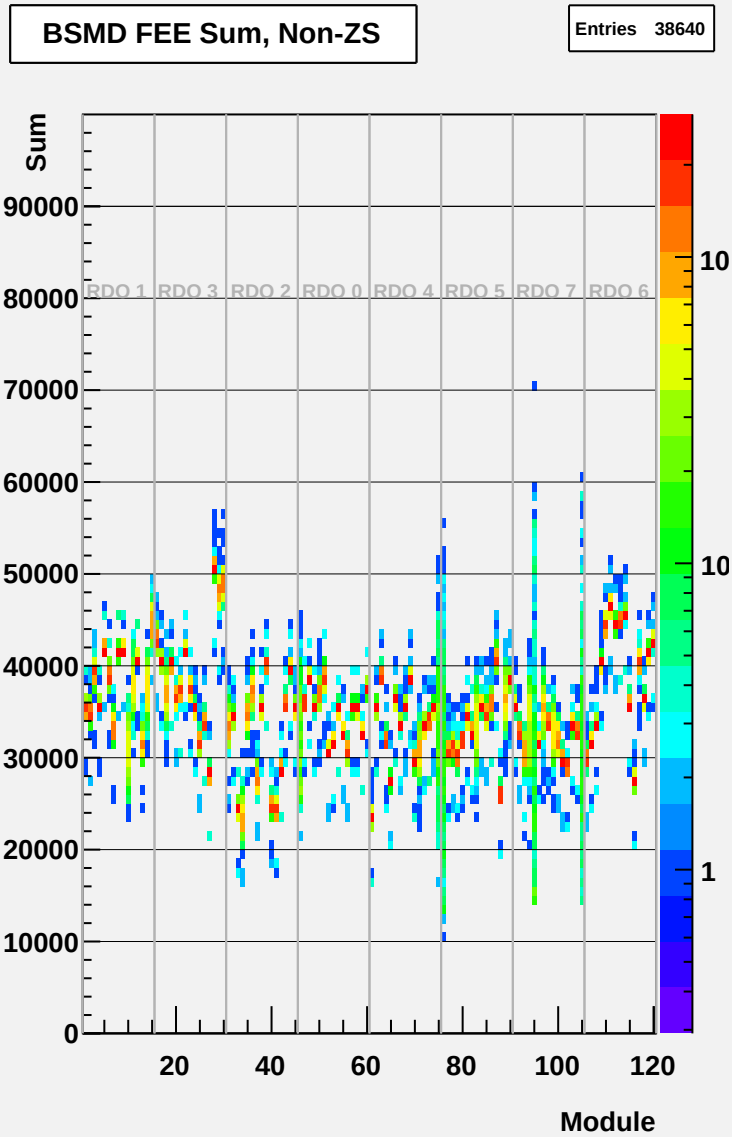

BEMC PSD capacitor distribution
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0 20 40 60 80 100 120


BEMC SMD capacitor distribution
Entries 10395
7
6
5
4
3
2
1
0
0 20 40 60 80 100 120
10
1

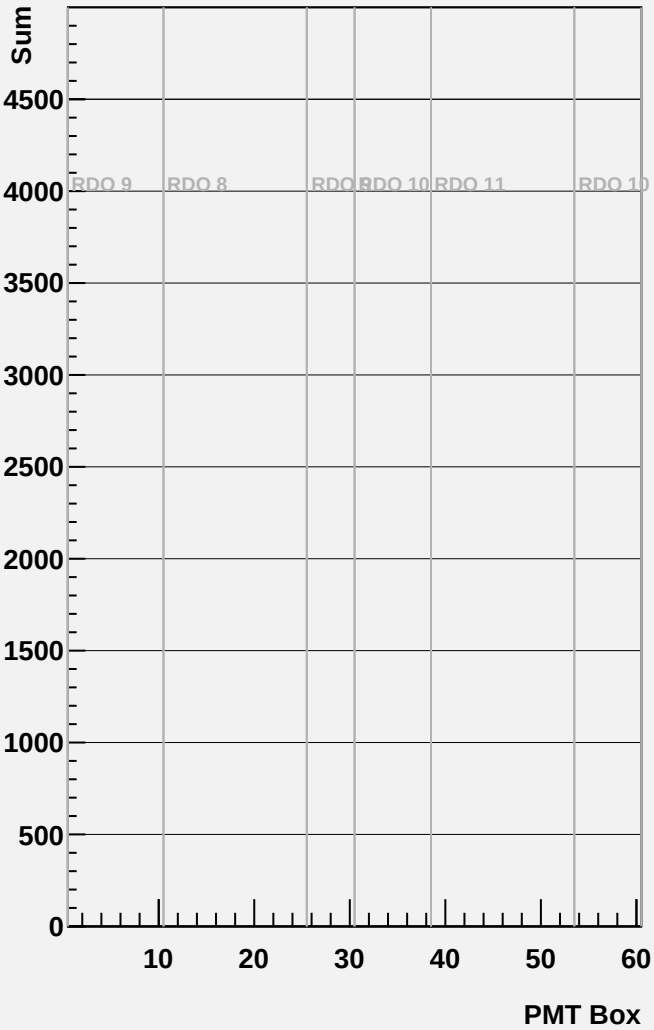

BEMC PSD total ADC, Non-ZS
Entries 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000
×10^3


BEMC SMD total ADC, Non-ZS
Entries 322
120
100
80
60
40
20
0
1000 2000 3000 4000 5000 6000
×10^3

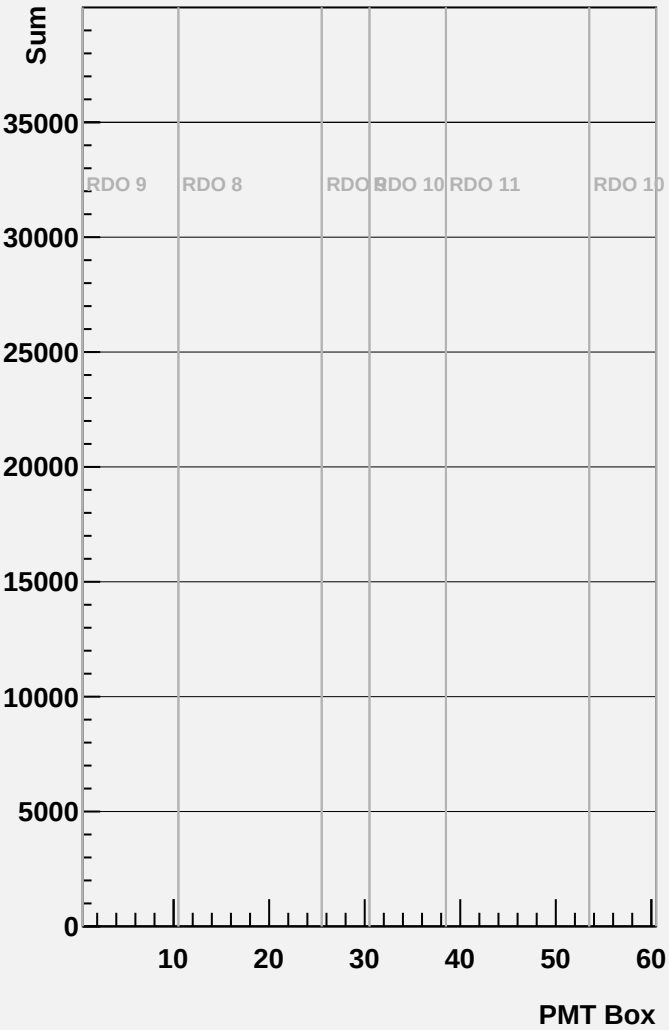

BSMD FEE Sum
Entries 161280
Sum
4500
4000
3500
3000
2500
2000
1500
1000
500
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
10
1

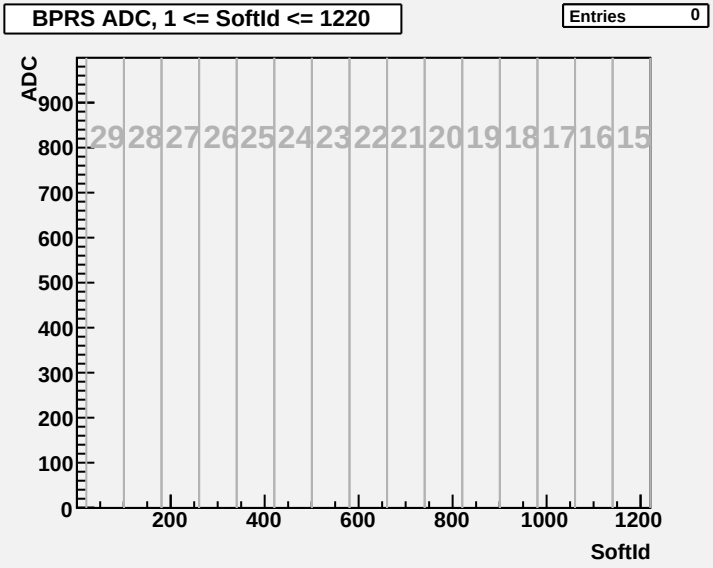

BSMD FEE Sum, Non-ZS
Entries 38640
Sum
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
1

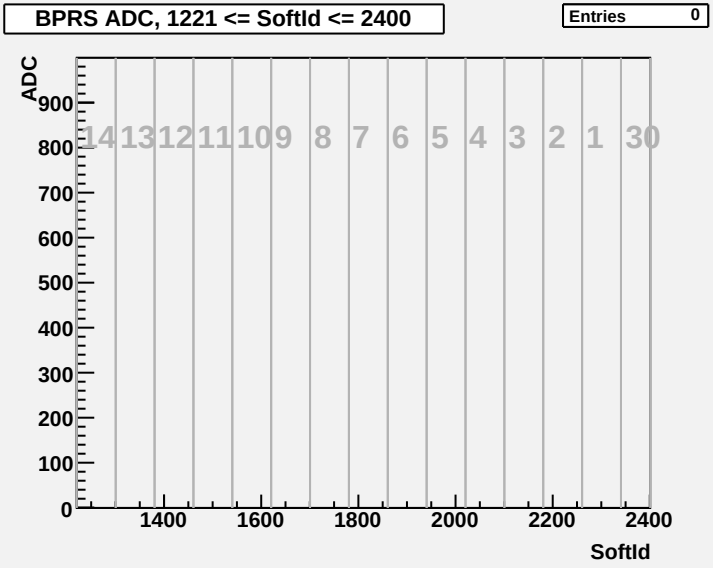
BPRS FEE Sum

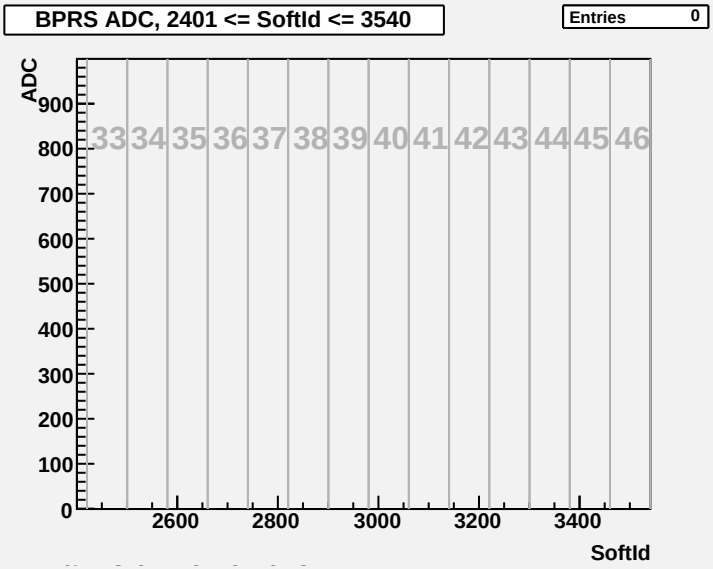


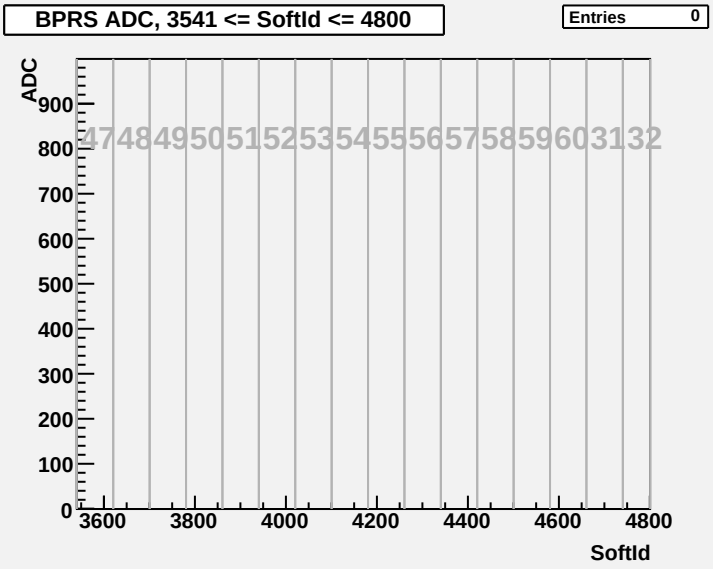
BPRS FEE Sum, Non-ZS

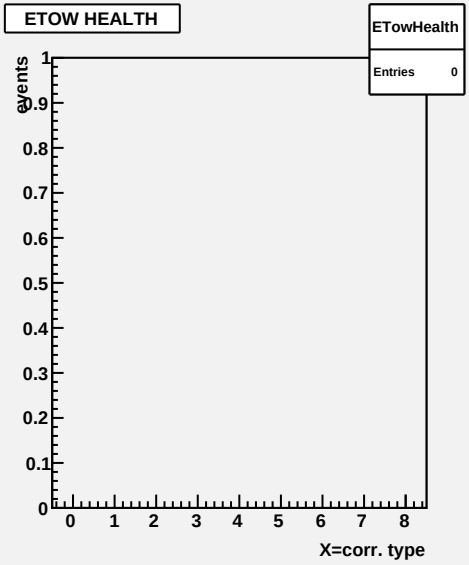


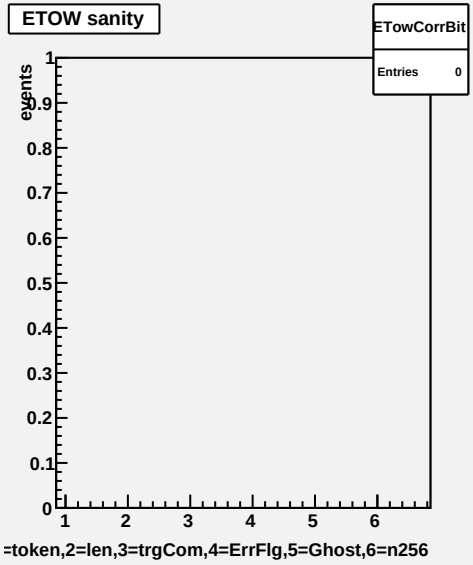

BPRS ADC, 1 <= SoftId <= 1220
Entries 0
ADC
SoftId
29 28 27 26 25 24 23 22 21 20 19 18 17 16 15

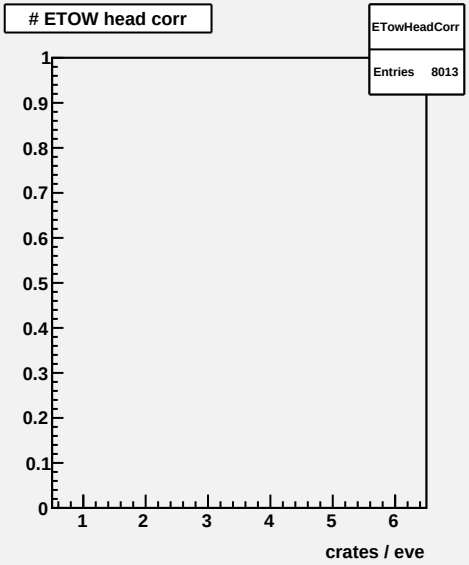

BPRS ADC, 1221 <= SoftId <= 2400
Entries 0
ADC
SoftId
14 13 12 11 10 9 8 7 6 5 4 3 2 1 30

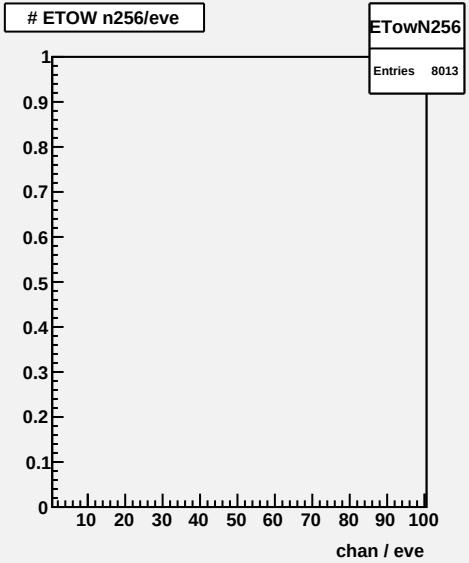

BPRS ADC, 2401 <= SoftId <= 3540
Entries 0
ADC
SoftId
33 34 35 36 37 38 39 40 41 42 43 44 45 46

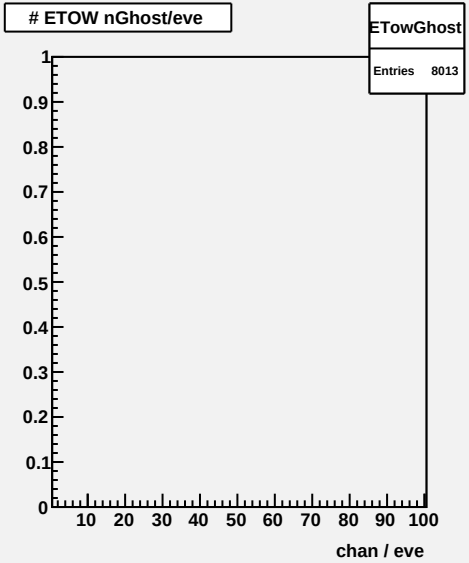

BPRS ADC, 3541 <= SoftId <= 4800
Entries 0
ADC
SoftId
47 48 49 50 51 52 53 54 55 56 57 58 59 60 31 32

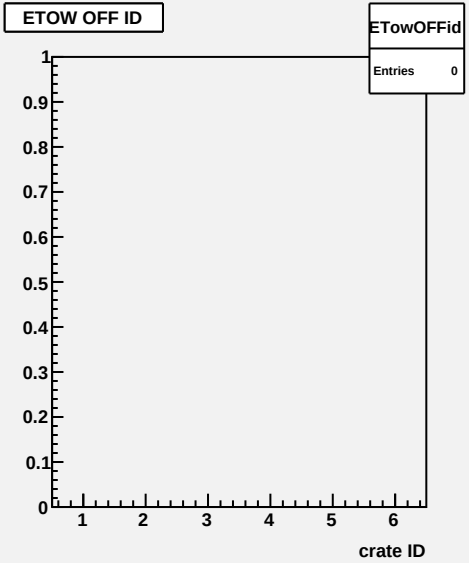

ETOW HEALTH
ETowHealth
Entries 0
events
X=corr. type

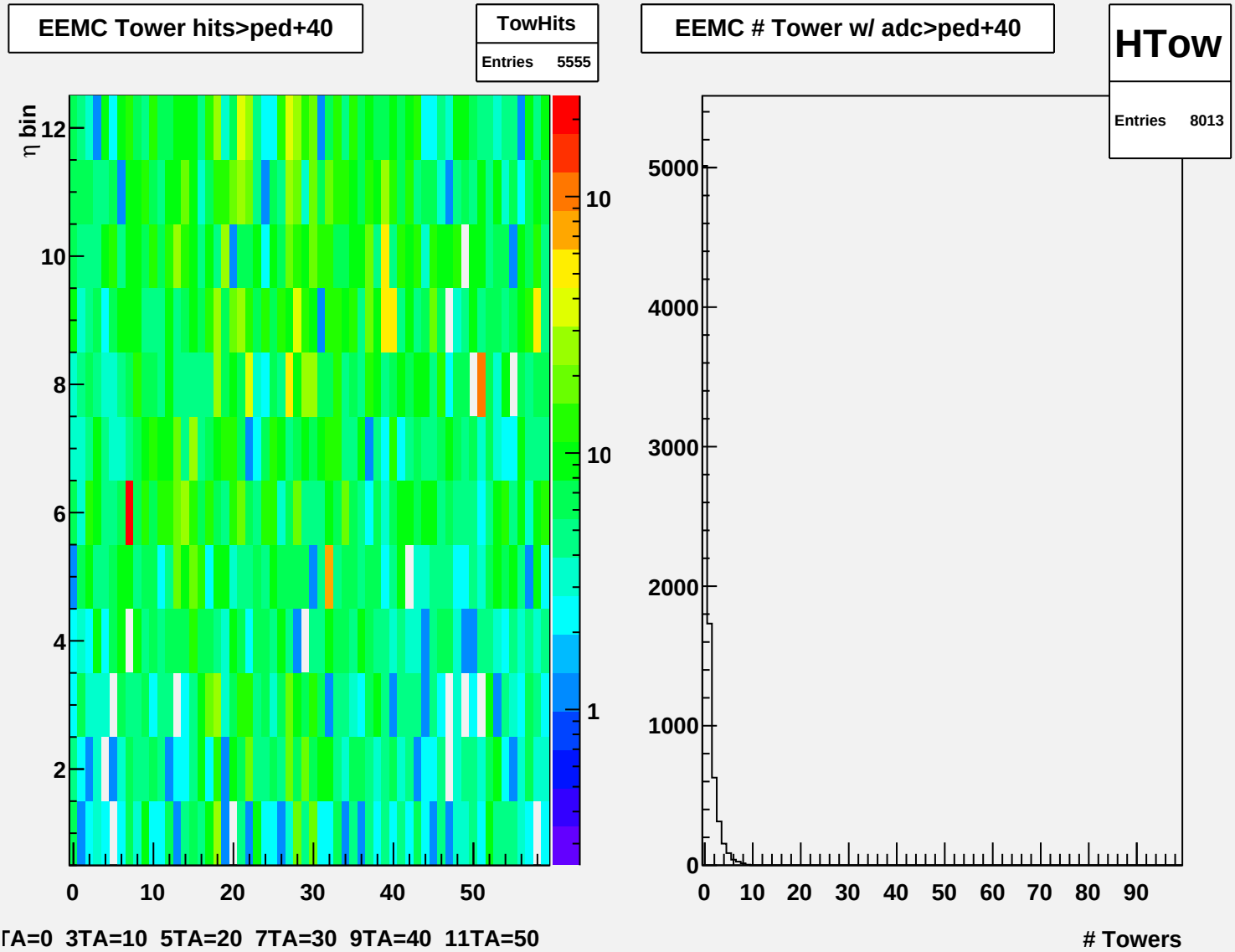

ETOW sanity
ETowCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

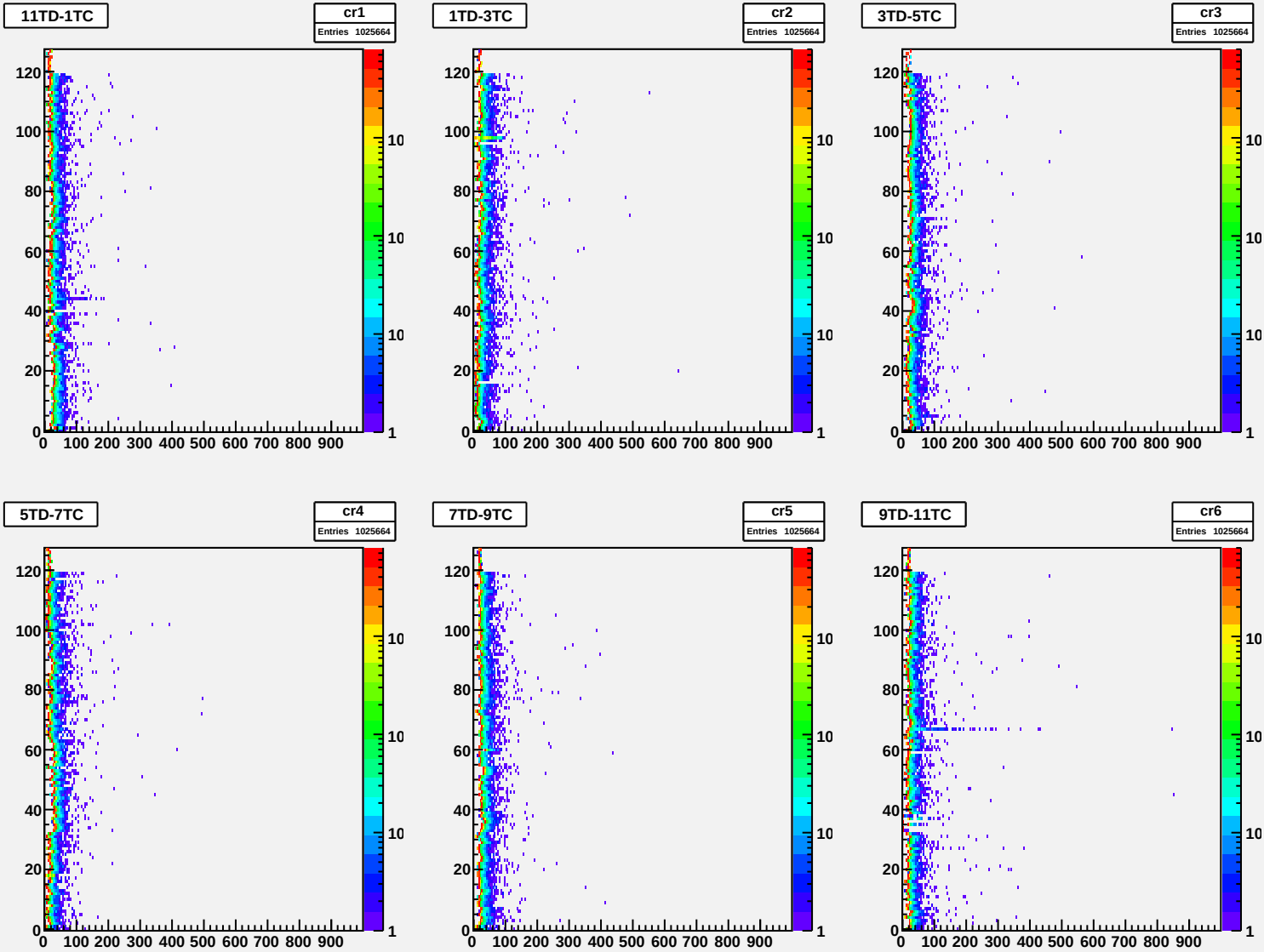

ETOW head corr
ETowHeadCorr
Entries 8013
crates / eve

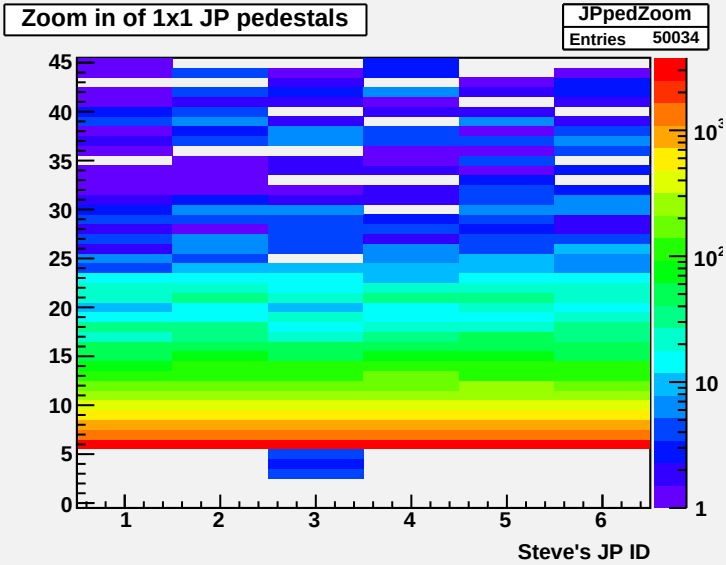

ETOW n256/eve
ETowN256
Entries 8013
chan / eve

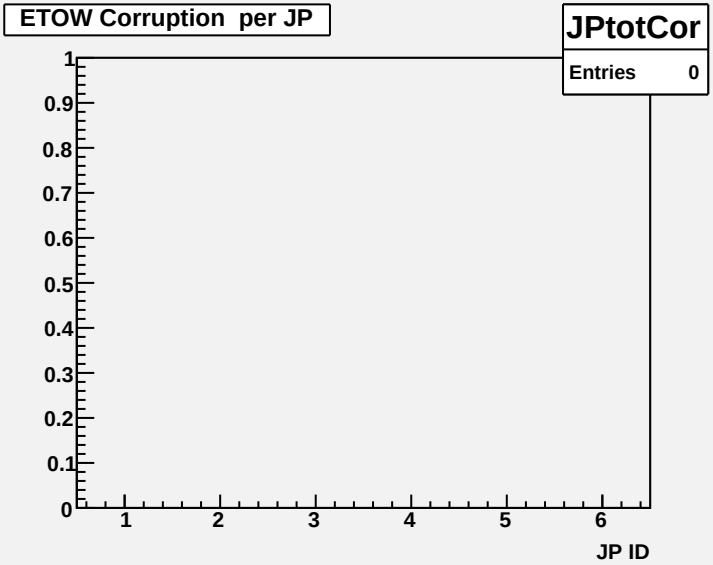

ETOW nGhost/eve
ETowGhost
Entries 8013
chan / eve

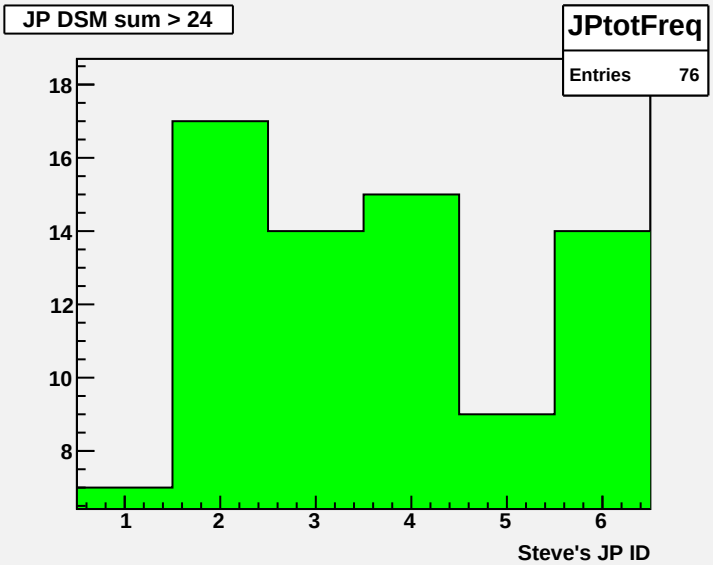

ETOW OFF ID
ETowOFFid
Entries 0
crate ID

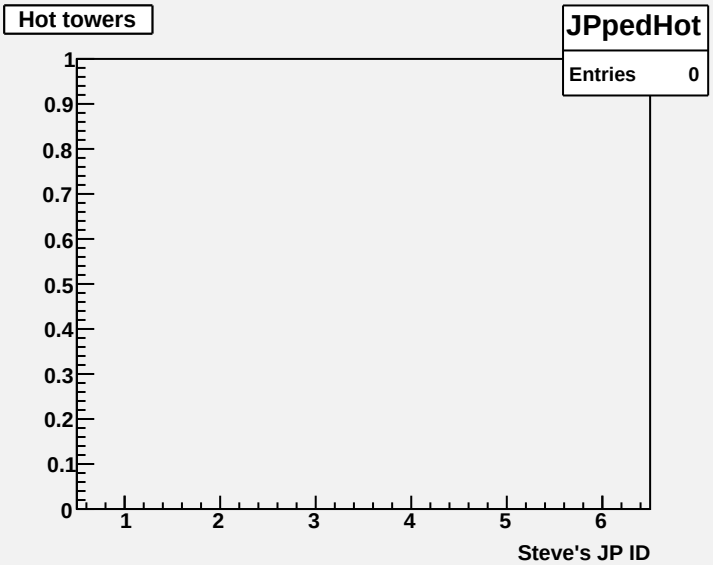

EEMC Tower hits>ped+40
TowHits
Entries 5555
η bin
12
10
8
6
4
2
0
10
20
30
40
50
10
10
1
ΓA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50
EEMC # Tower w/ adc>ped+40
HTow
Entries 8013
5000
4000
3000
2000
1000
0
0
10
20
30
40
50
60
70
80
90
Towers

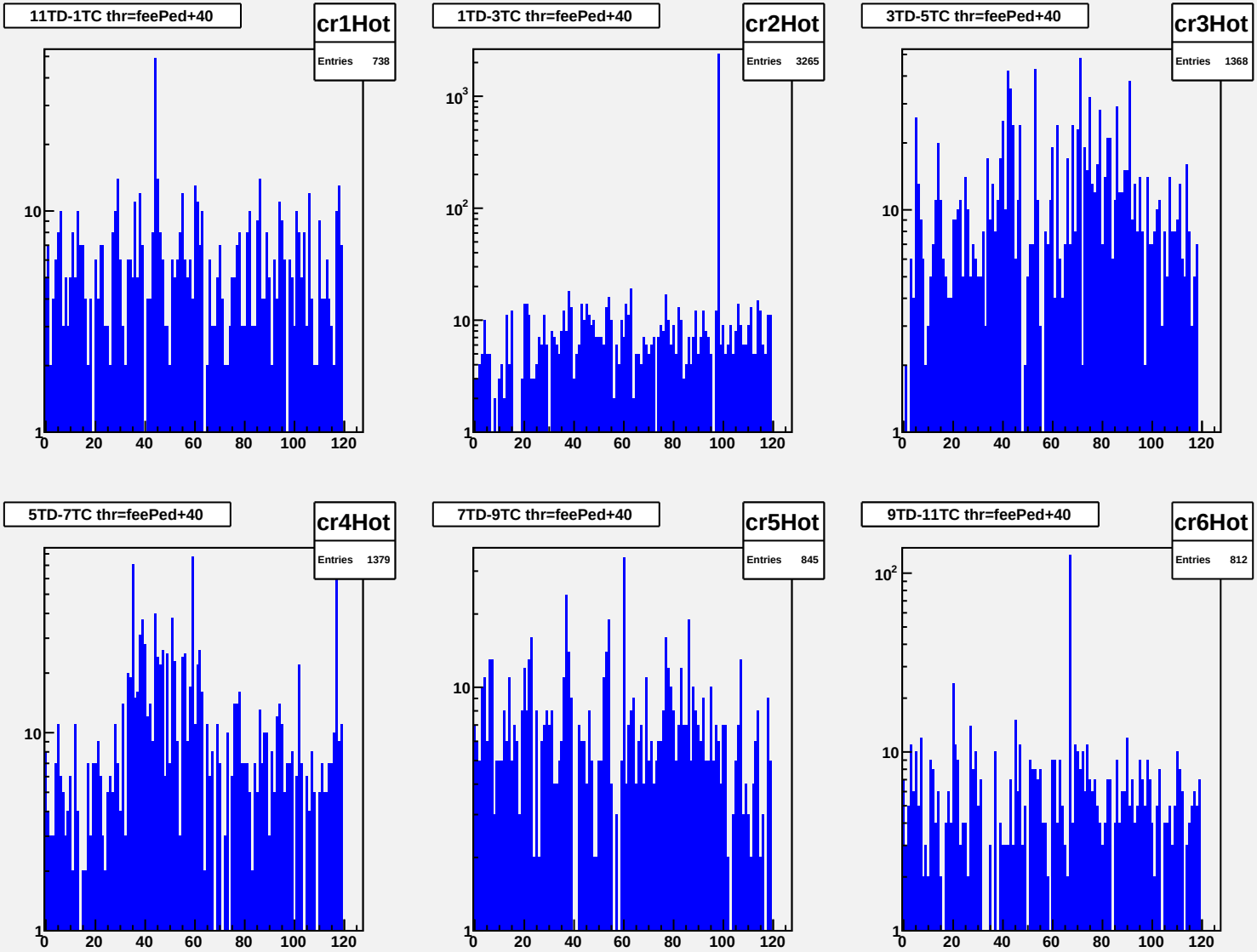

11TD-1TC
cr1
Entries 1025664
1TD-3TC
cr2
Entries 1025664
3TD-5TC
cr3
Entries 1025664
5TD-7TC
cr4
Entries 1025664
7TD-9TC
cr5
Entries 1025664
9TD-11TC
cr6
Entries 1025664
0 100 200 300 400 500 600 700 800 900
0 20 40 60 80 100 120
1 10 10 10 10

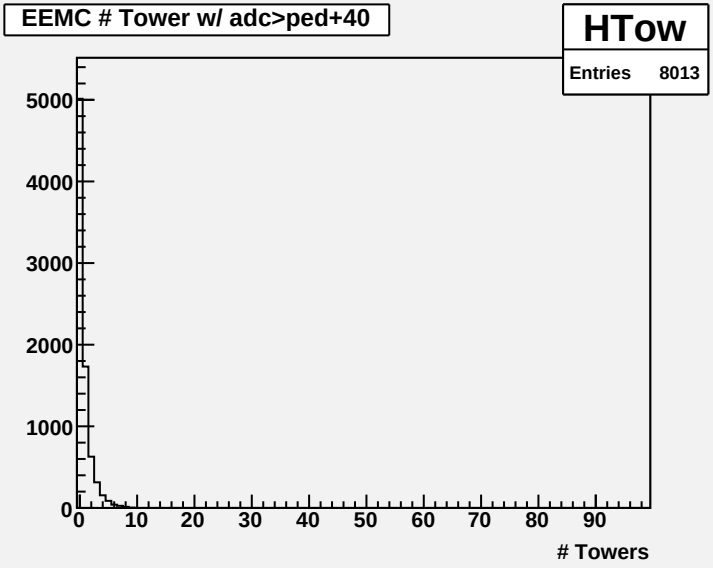

Zoom in of 1x1 JP pedestals
JPpedZoom
Entries 50034
Steve's JP ID

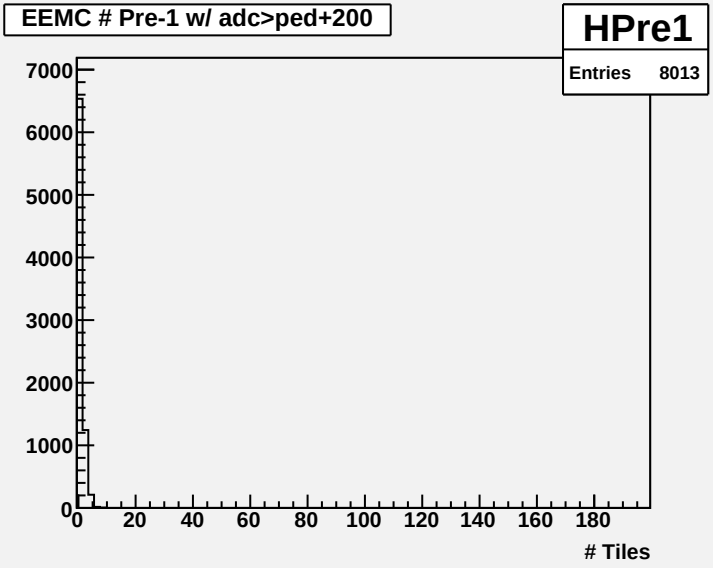

ETOW Corruption per JP
JPtotCor
Entries 0
JP ID

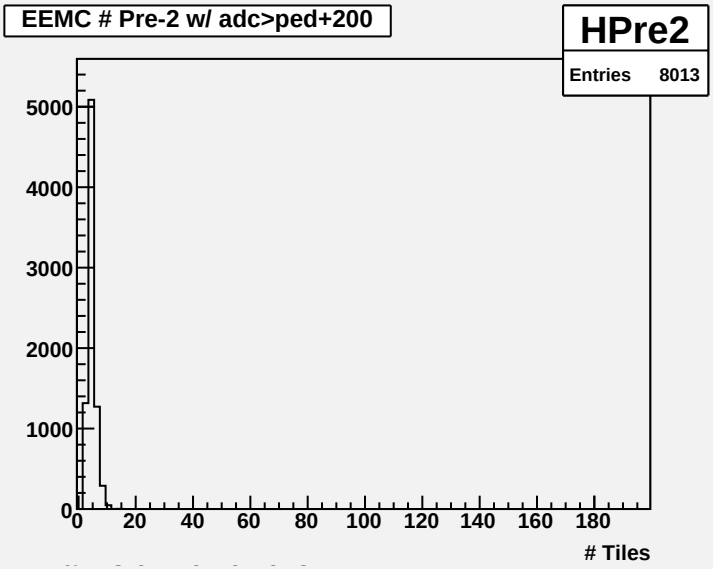

JP DSM sum > 24
JPtotFreq
Entries 76
Steve's JP ID

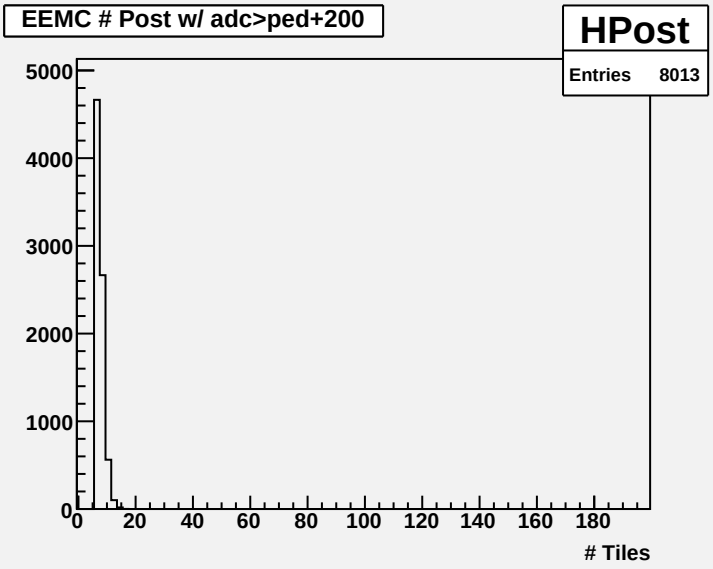

Hot towers
JPpedHot
Entries 0
Steve's JP ID

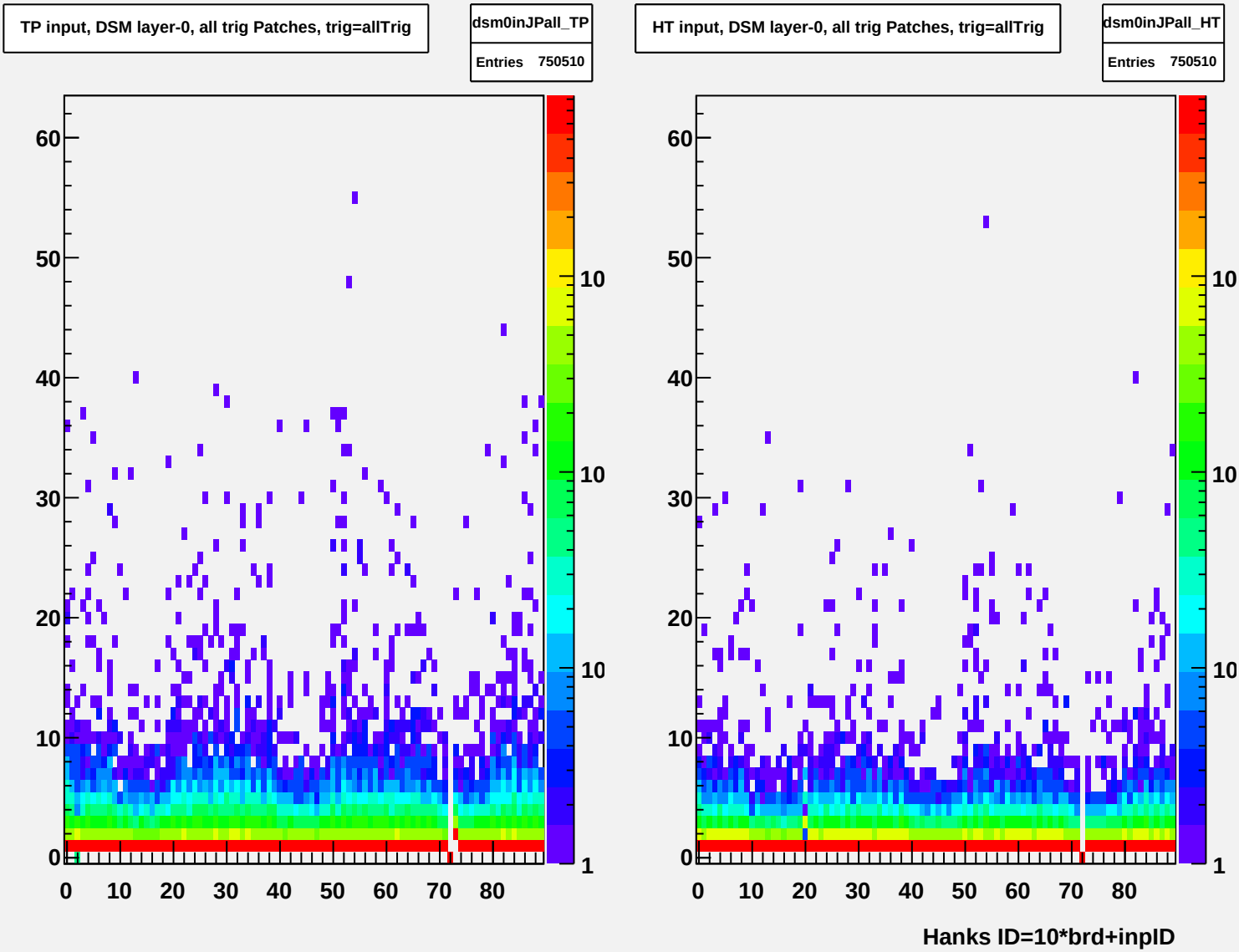

11TD-1TC thr=feePed+40
cr1Hot
Entries 738
1TD-3TC thr=feePed+40
cr2Hot
Entries 3265
3TD-5TC thr=feePed+40
cr3Hot
Entries 1368
5TD-7TC thr=feePed+40
cr4Hot
Entries 1379
7TD-9TC thr=feePed+40
cr5Hot
Entries 845
9TD-11TC thr=feePed+40
cr6Hot
Entries 812

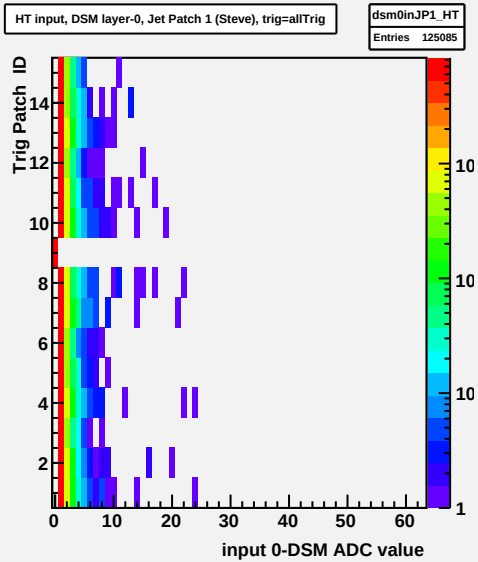

EEMC # Tower w/ adc>ped+40
HTow
Entries 8013
5000
4000
3000
2000
1000
0
0 10 20 30 40 50 60 70 80 90
Towers

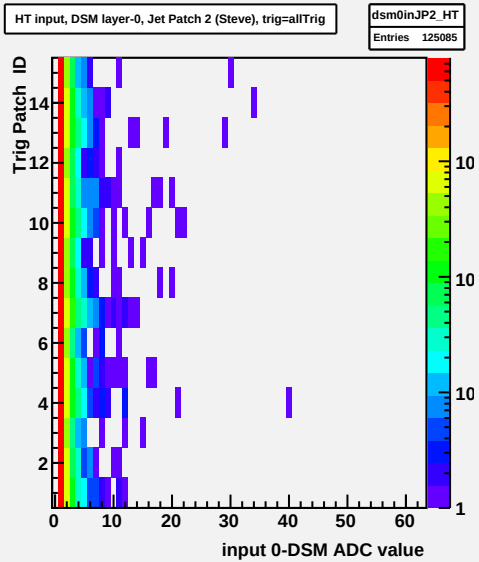

EEMC # Pre-1 w/ adc>ped+200
HPre1
Entries 8013
7000
6000
5000
4000
3000
2000
1000
0
0 20 40 60 80 100 120 140 160 180
Tiles

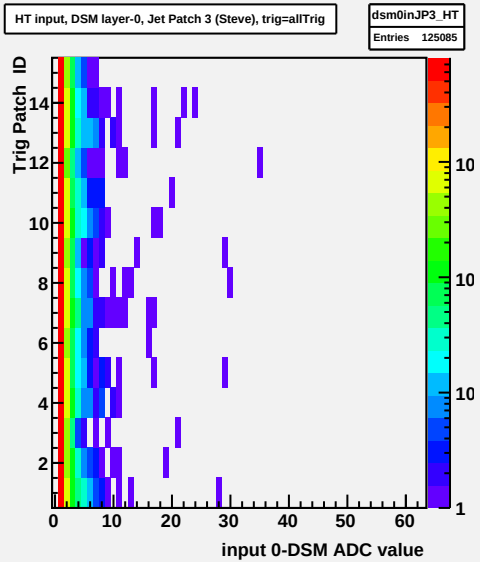

EEMC # Pre-2 w/ adc>ped+200
HPre2
Entries 8013
5000
4000
3000
2000
1000
0
0 20 40 60 80 100 120 140 160 180
Tiles

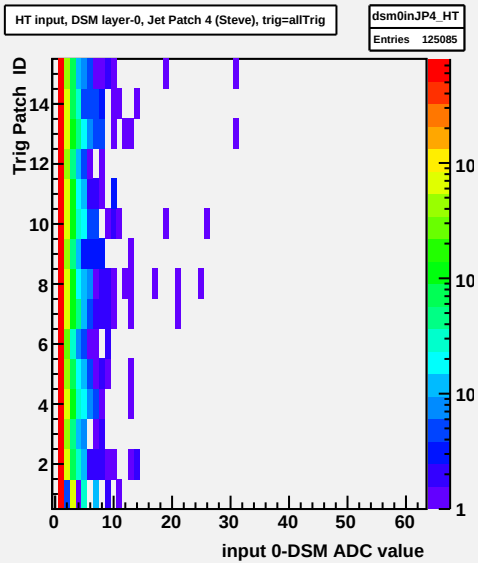

EEMC # Post w/ adc>ped+200
HPost
Entries 8013
5000
4000
3000
2000
1000
0
0 20 40 60 80 100 120 140 160 180
Tiles

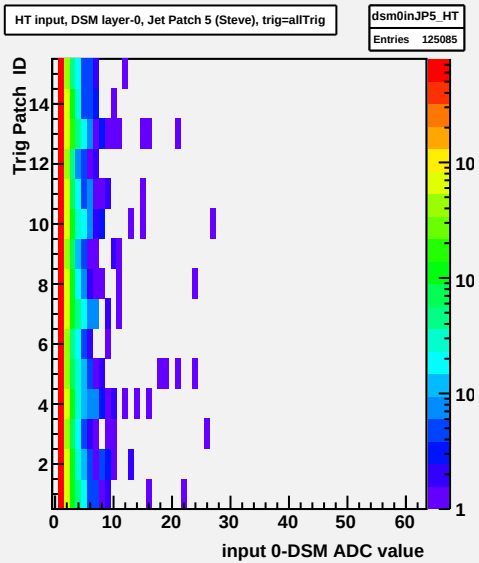

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 750510
HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 750510
0
10
20
30
40
50
60
70
80
1
10
Hanks ID=10*brd+inpID

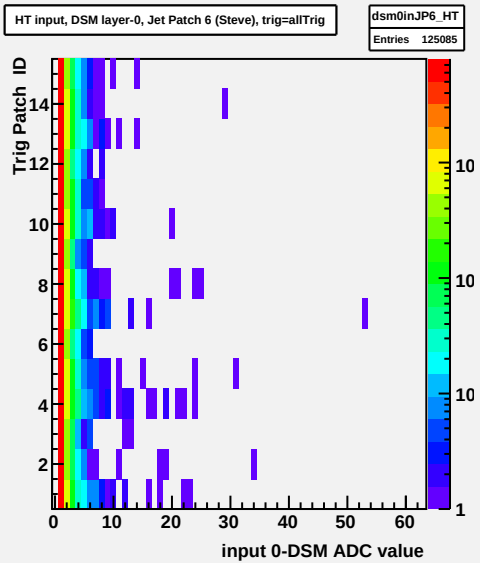

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 125085
Trig Patch ID
input 0-DSM ADC value

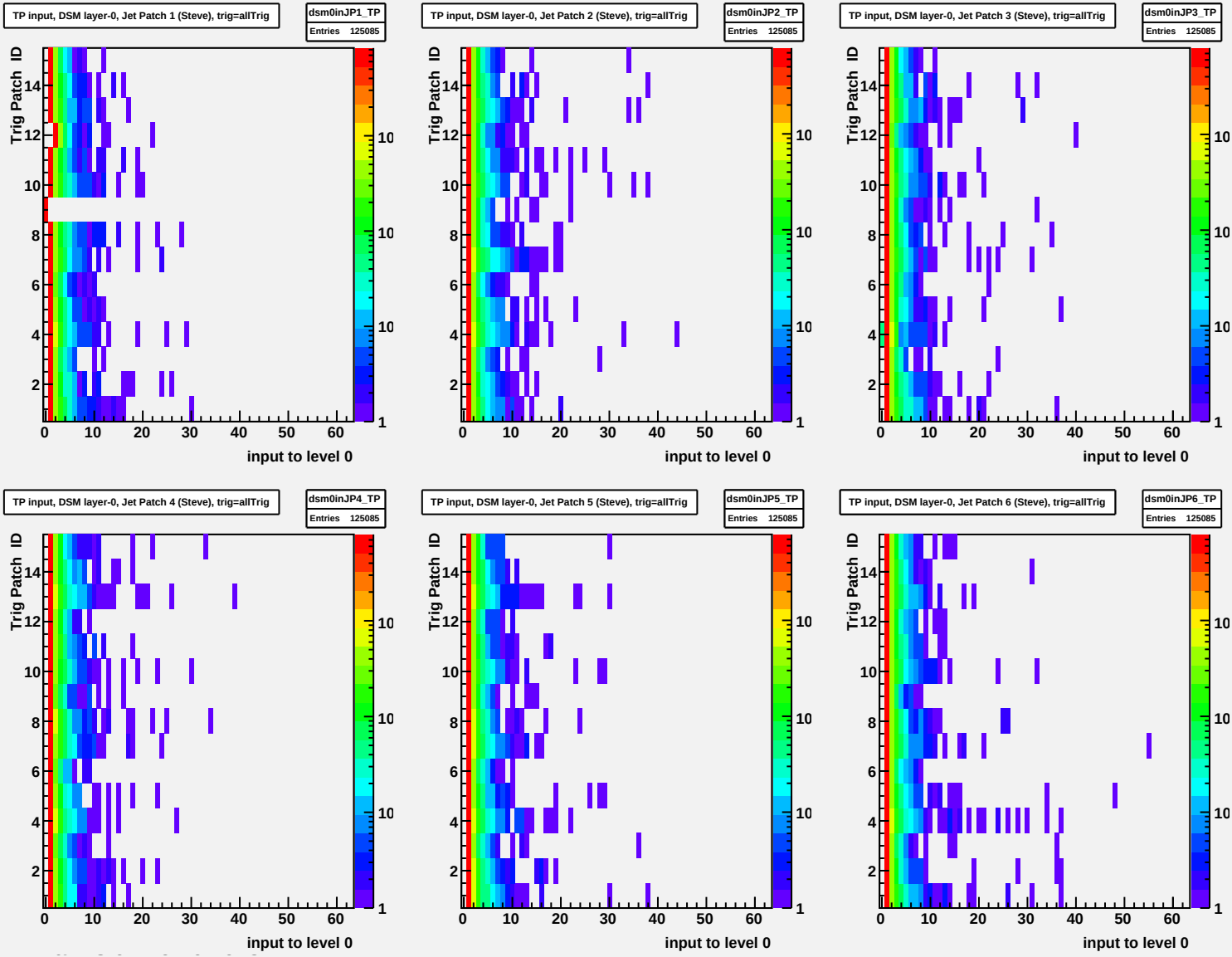

HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 125085
Trig Patch ID
input 0-DSM ADC value

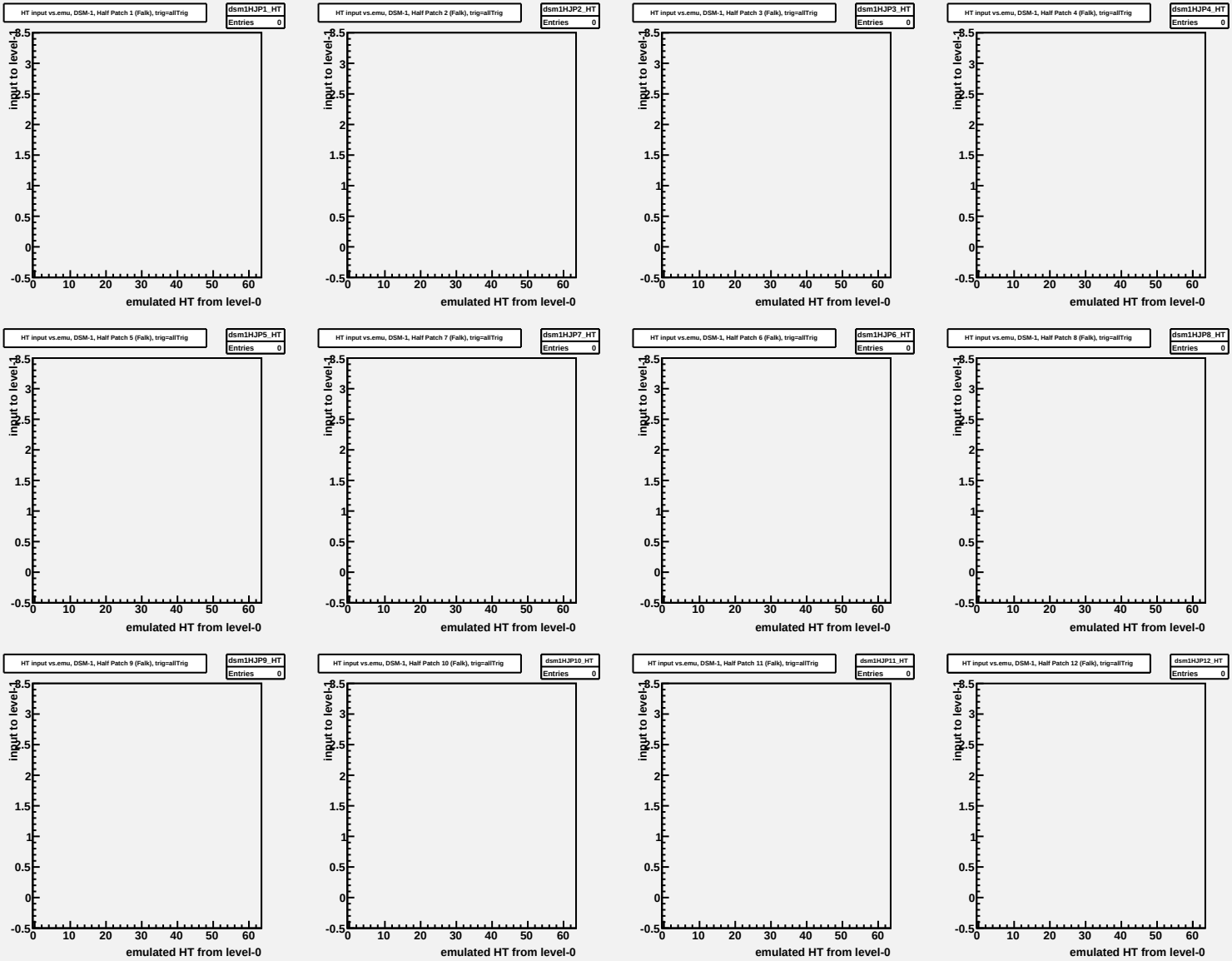

HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 125085
Trig Patch ID
input 0-DSM ADC value

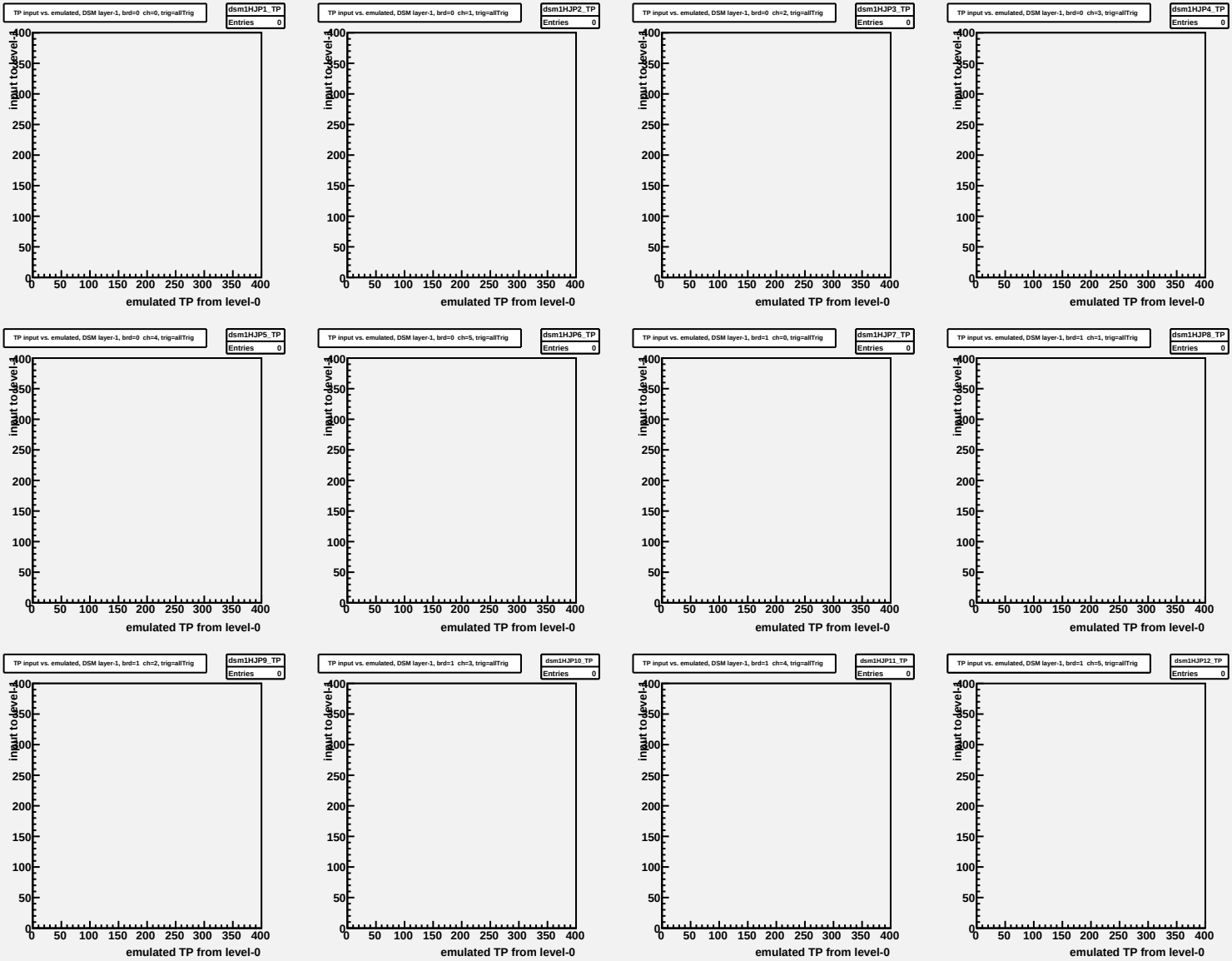

HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 125085
Trig Patch ID
input 0-DSM ADC value

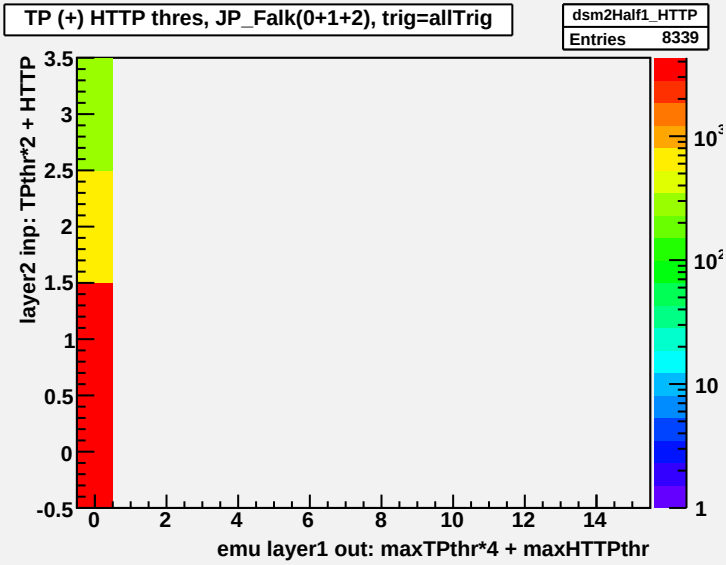

HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 125085
Trig Patch ID
input 0-DSM ADC value

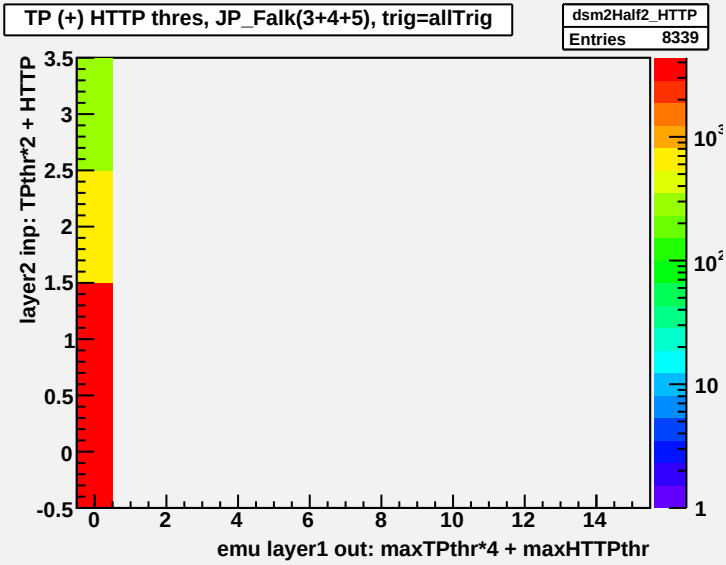

HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 125085
Trig Patch ID
input 0-DSM ADC value

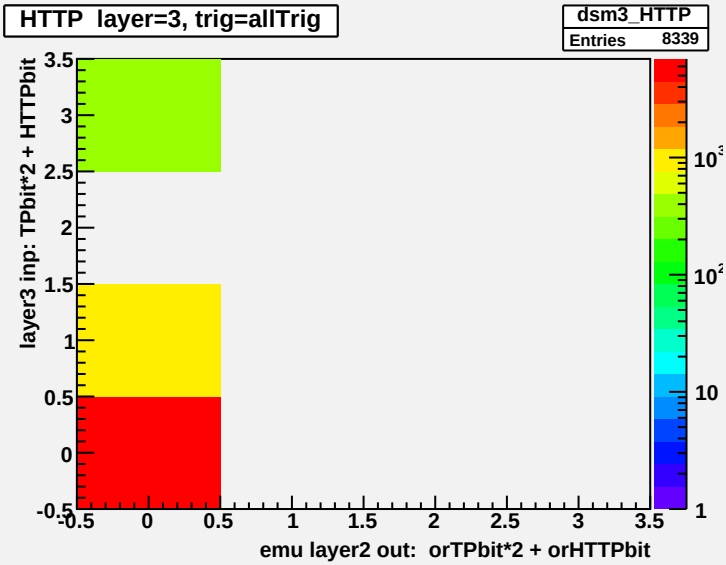

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 125085
TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 125085
TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 125085
TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 125085
TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 125085
TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 125085
Trig Patch ID
input to level 0

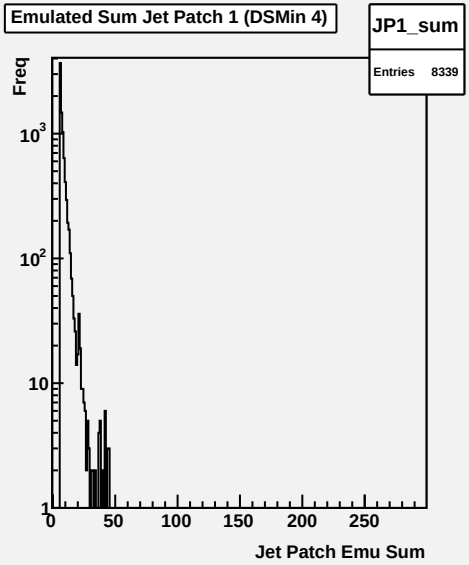

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT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

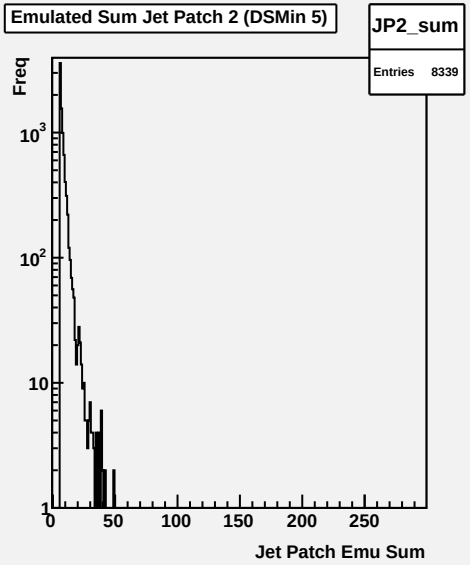

TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig
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

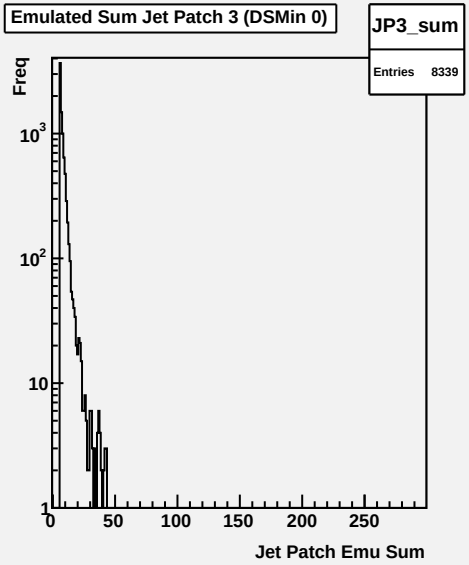

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 8339
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

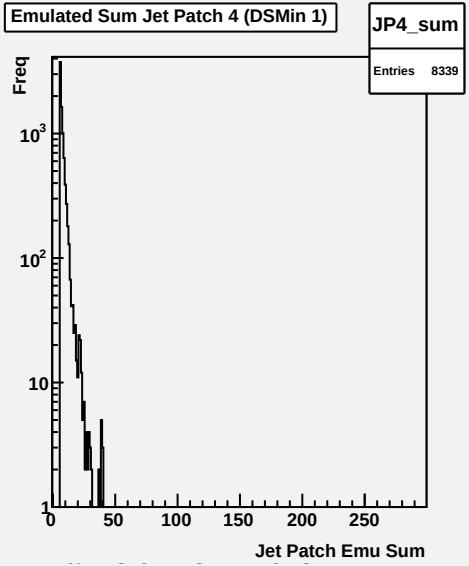

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 8339
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

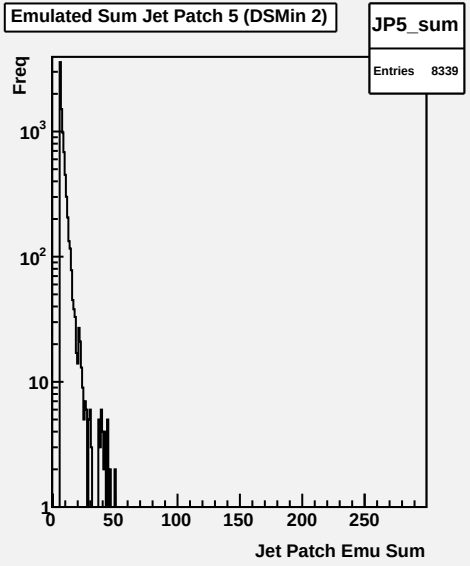

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 8339
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

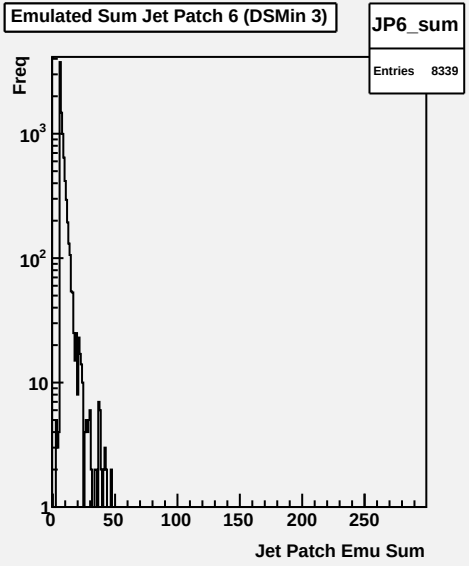

Emulated Sum Jet Patch 1 (DSMin 4)
JP1_sum
Entries 8339
Freq
Jet Patch Emu Sum

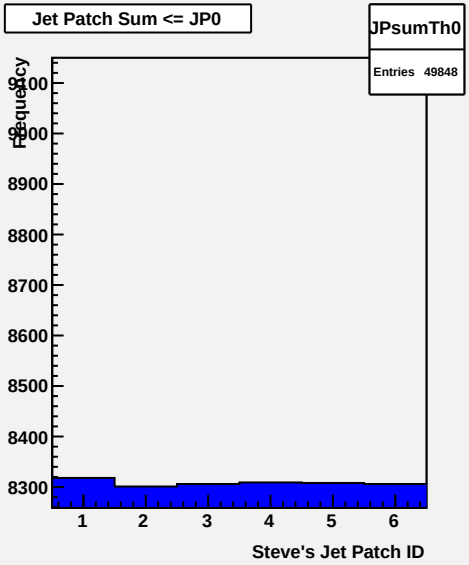

Emulated Sum Jet Patch 2 (DSMin 5)
JP2_sum
Entries 8339
Freq
Jet Patch Emu Sum

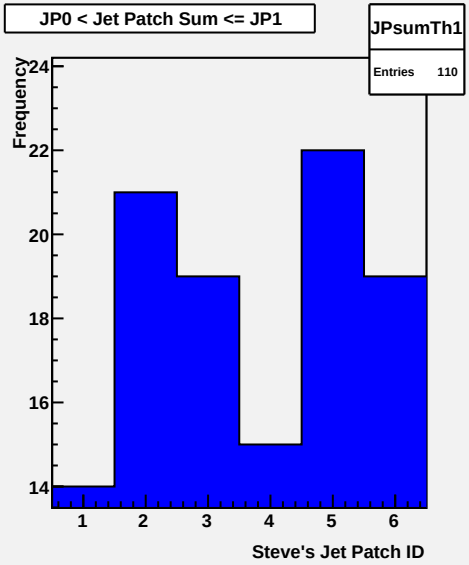

Emulated Sum Jet Patch 3 (DSMin 0)
JP3_sum
Entries 8339
Freq
Jet Patch Emu Sum

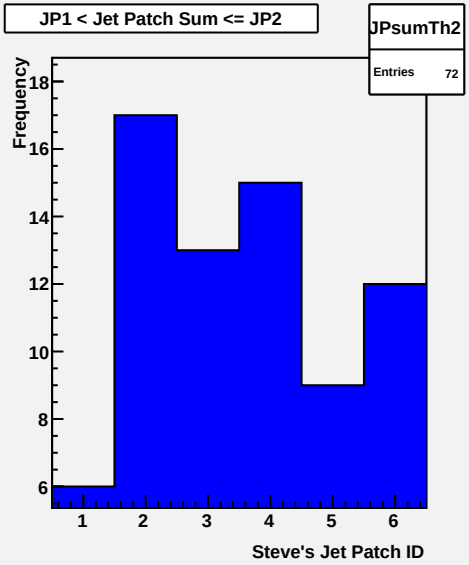

Emulated Sum Jet Patch 4 (DSMin 1)
JP4_sum
Entries 8339
Freq
Jet Patch Emu Sum

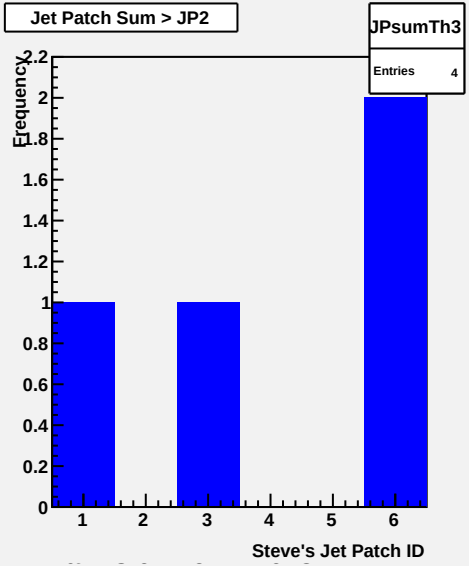

Emulated Sum Jet Patch 5 (DSMin 2)
JP5_sum
Entries 8339
Freq
Jet Patch Emu Sum

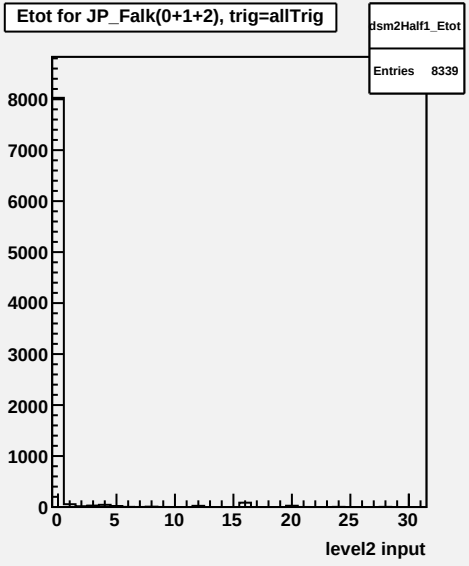

Emulated Sum Jet Patch 6 (DSMin 3)
JP6_sum
Entries 8339
Freq
Jet Patch Emu Sum

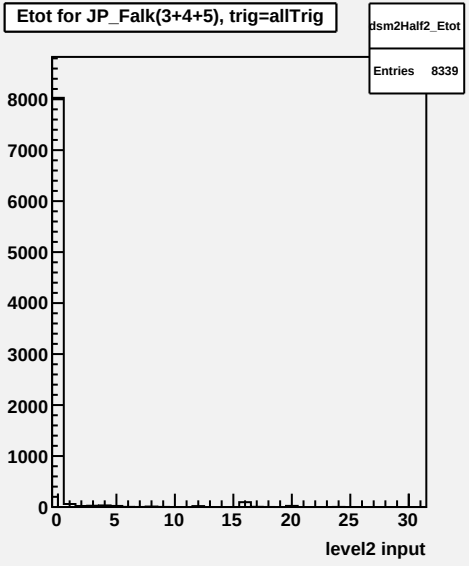

Jet Patch Sum <= JP0
JPsumTh0
Entries 49848
Frequency
Steve's Jet Patch ID

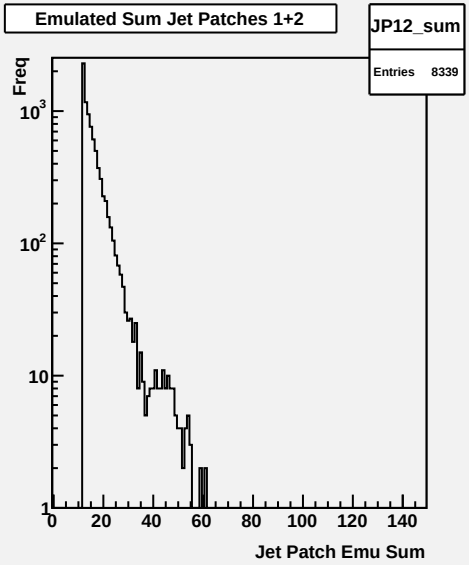

JP0 < Jet Patch Sum <= JP1
JPsumTh1
Entries 110
Frequency
Steve's Jet Patch ID

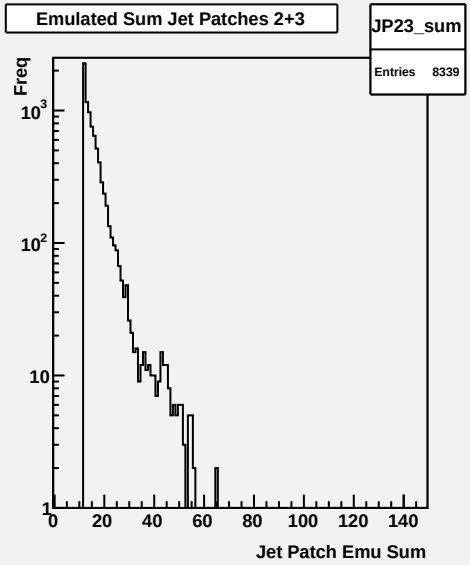

JP1 < Jet Patch Sum <= JP2
JPsumTh2
Entries 72
Frequency
Steve's Jet Patch ID

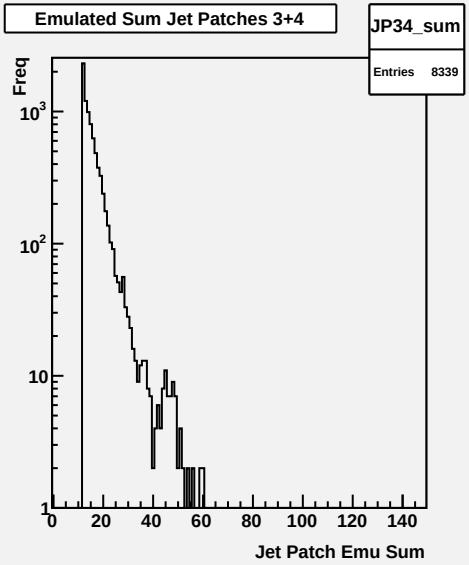

Jet Patch Sum > JP2
JPsumTh3
Entries 4
Frequency
Steve's Jet Patch ID

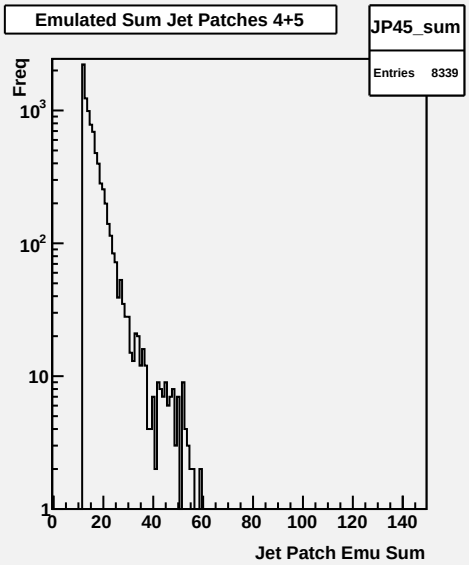

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 8339
level2 input

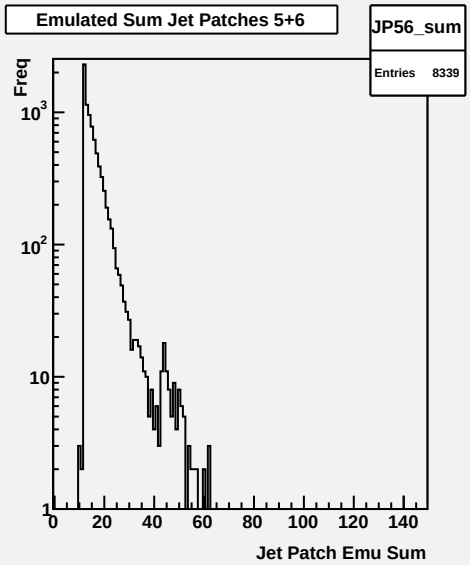

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 8339
level2 input

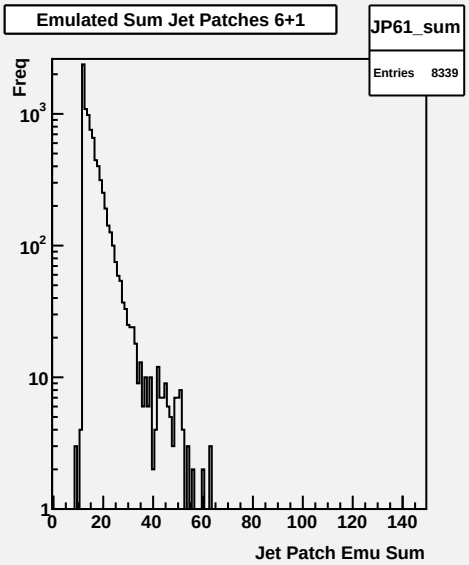

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 8339
Freq
Jet Patch Emu Sum

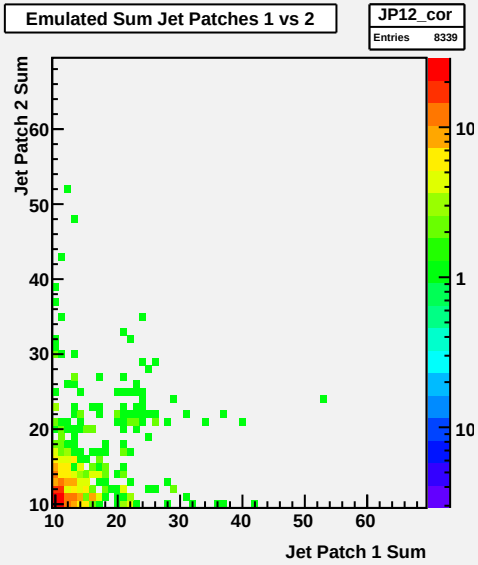

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 8339
Freq
Jet Patch Emu Sum

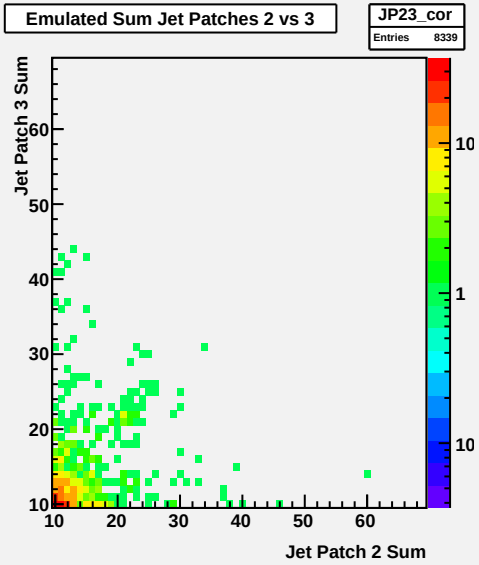

Emulated Sum Jet Patches 3+4
JP34_sum
Entries 8339
Freq
Jet Patch Emu Sum

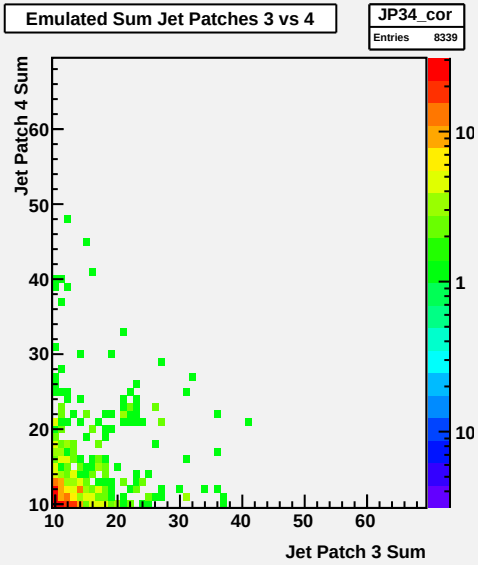

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 8339
Freq
Jet Patch Emu Sum

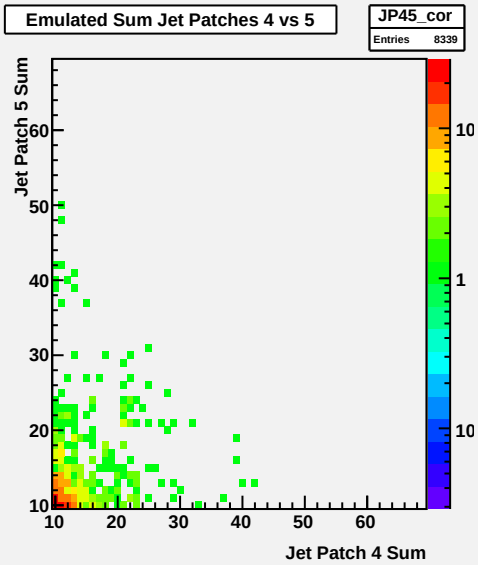

Emulated Sum Jet Patches 5+6
JP56_sum
Entries 8339
Freq
Jet Patch Emu Sum

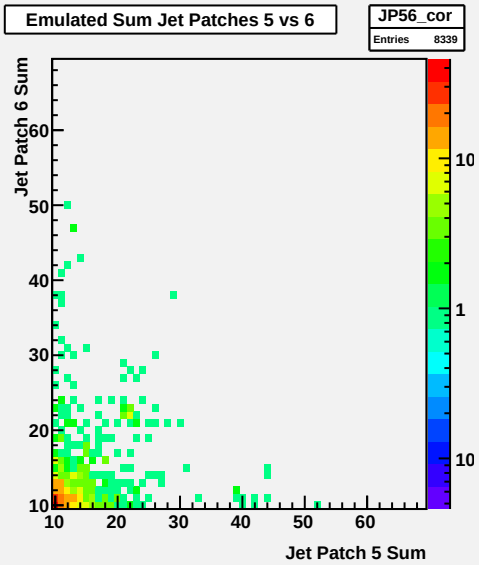

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 8339
Freq
Jet Patch Emu Sum

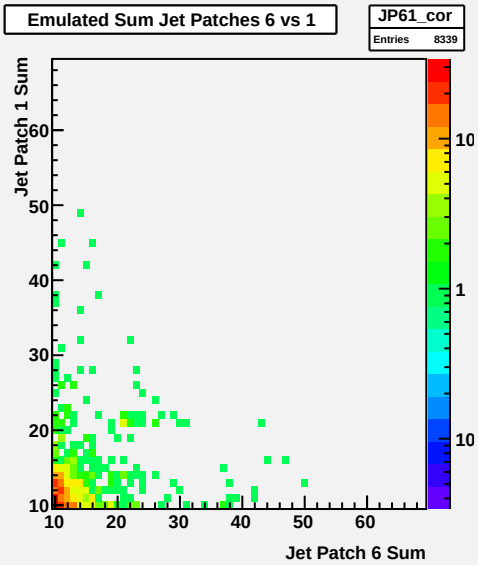

Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 8339
Jet Patch 2 Sum
Jet Patch 1 Sum


Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 8339
Jet Patch 3 Sum
Jet Patch 2 Sum

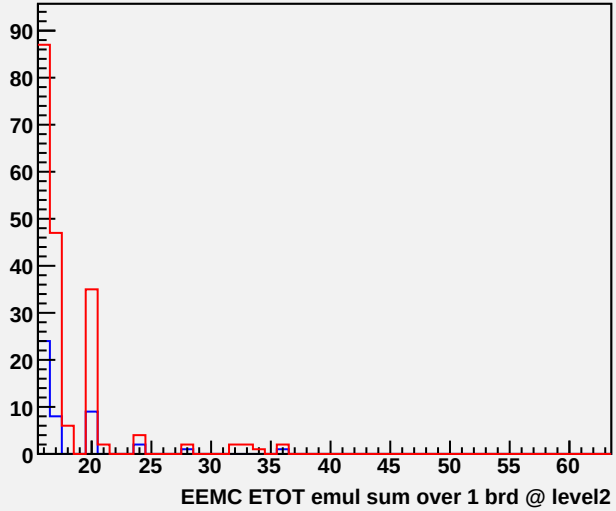

Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 8339
Jet Patch 4 Sum
Jet Patch 3 Sum


Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 8339
Jet Patch 5 Sum
Jet Patch 4 Sum

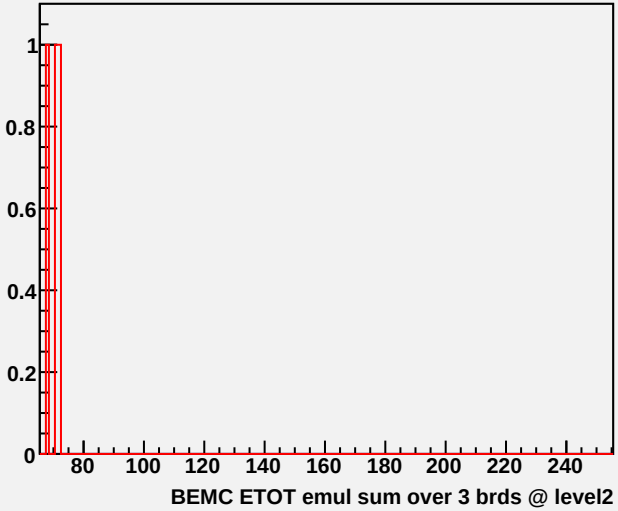

Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 8339
Jet Patch 6 Sum
Jet Patch 5 Sum


Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 8339
Jet Patch 1 Sum
Jet Patch 6 Sum

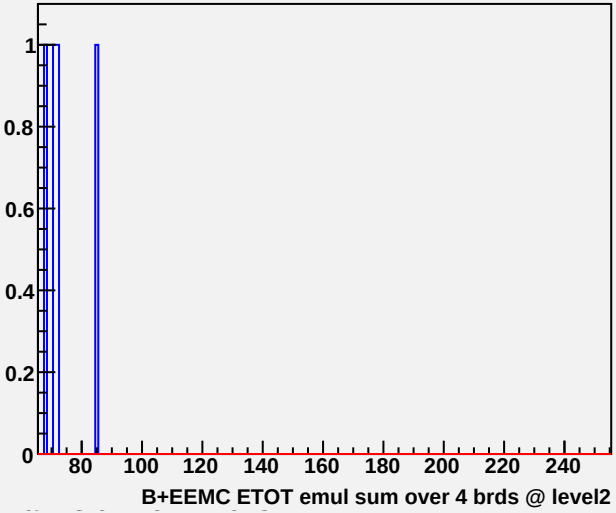
EEMC ETOT BIT=0, trig=allTrig

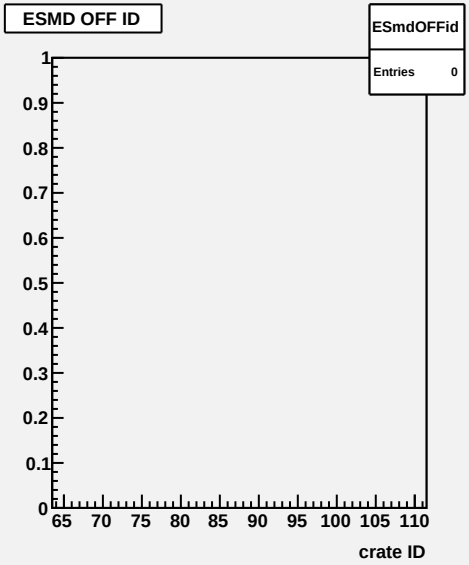


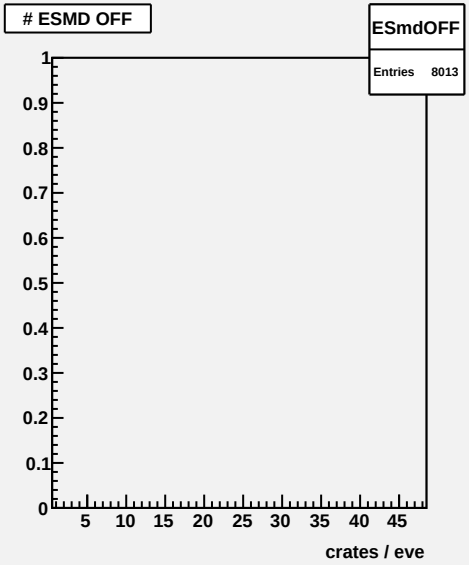
BEMC ETOT BIT=0, trig=allTrig

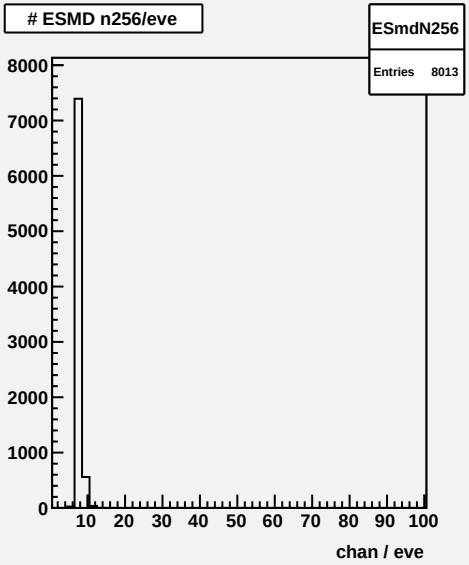


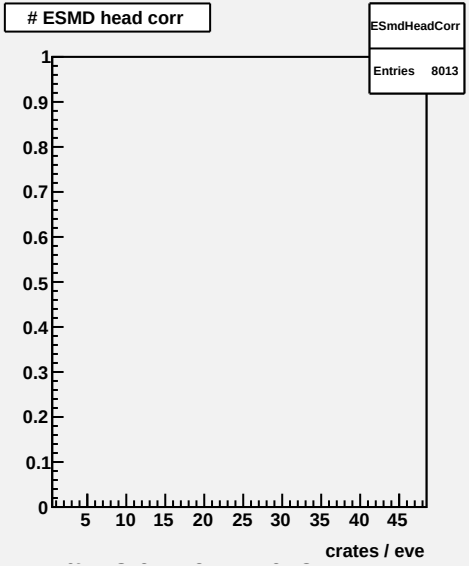
B+EEMC ETOT BIT=0, trig=allTrig

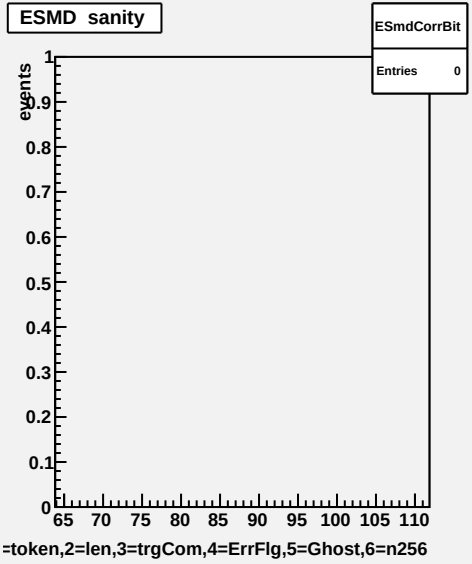


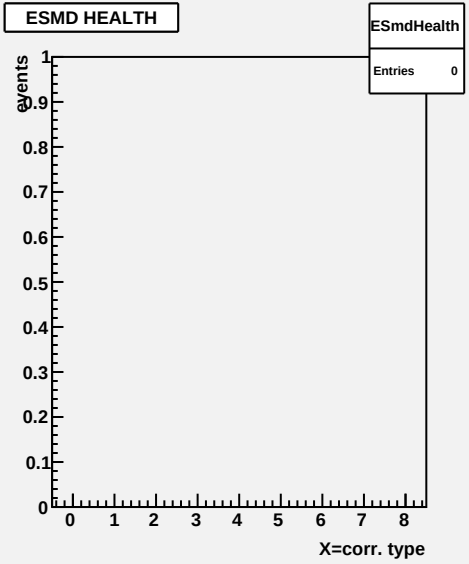

ESMD OFF ID
ESmdOFFid
Entries 0
crate ID

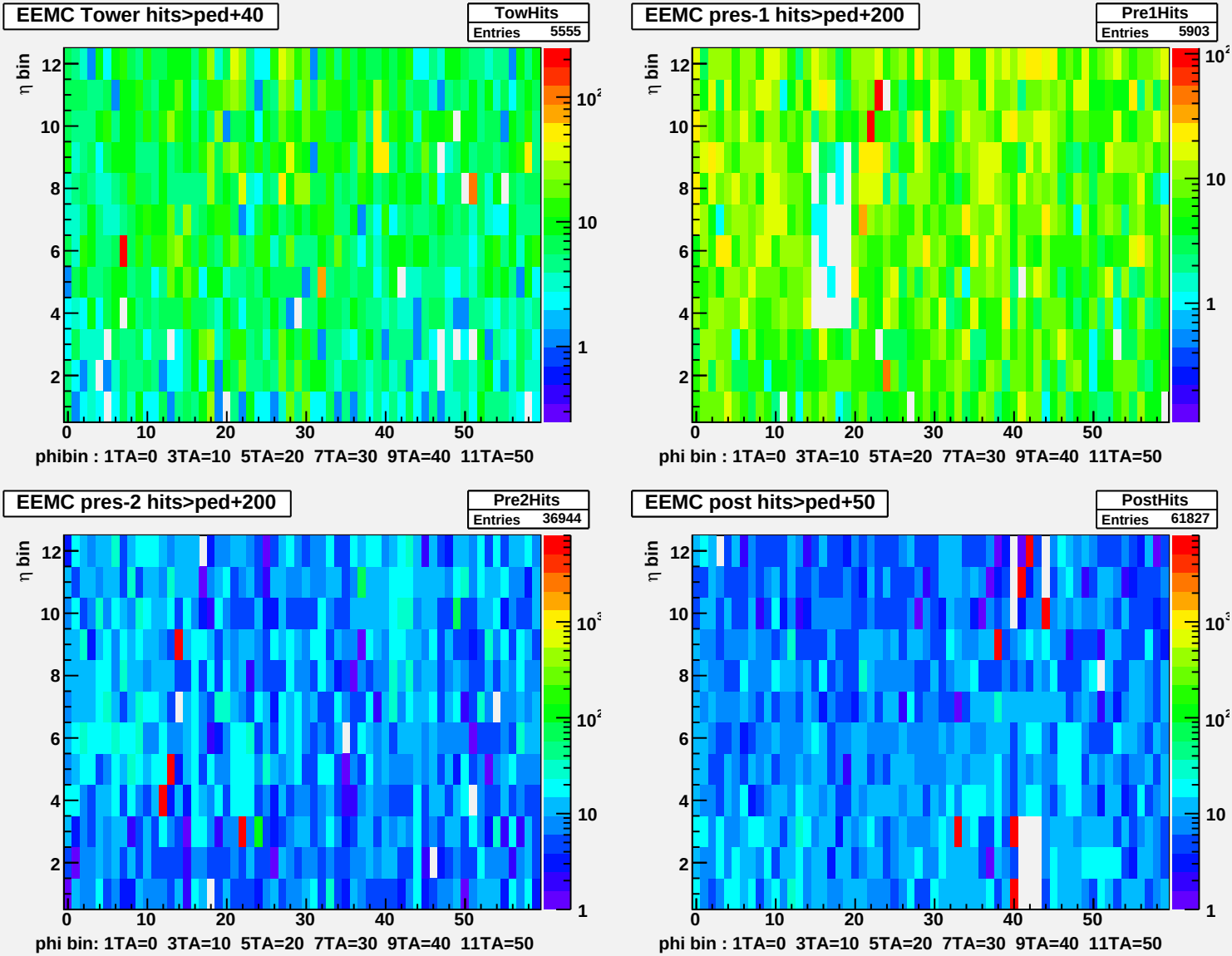

ESMD OFF
ESmdOFF
Entries 8013
crates / eve

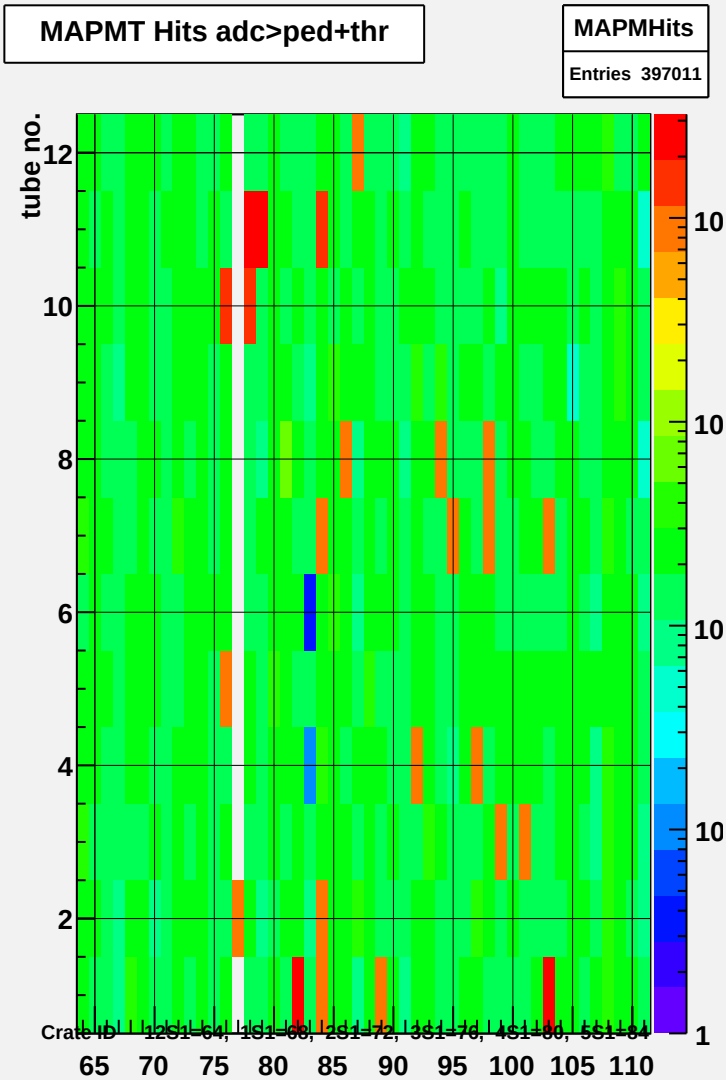

ESMD n256/eve
ESmdN256
Entries 8013
chan / eve

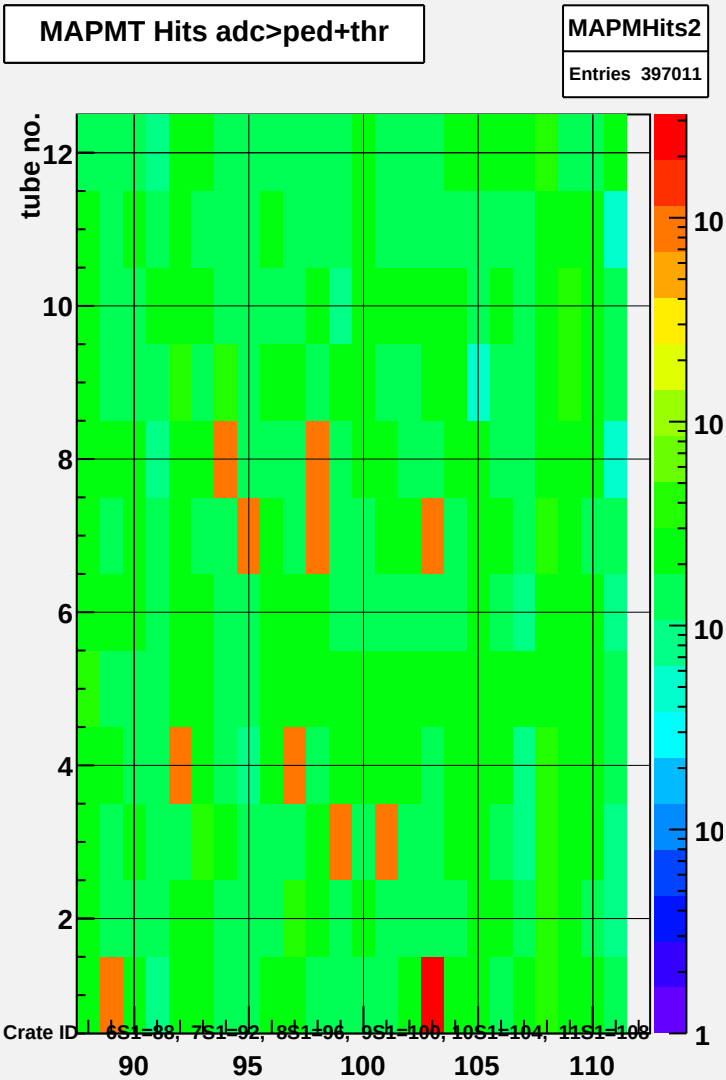

ESMD head corr
ESmdHeadCorr
Entries 8013
crates / eve

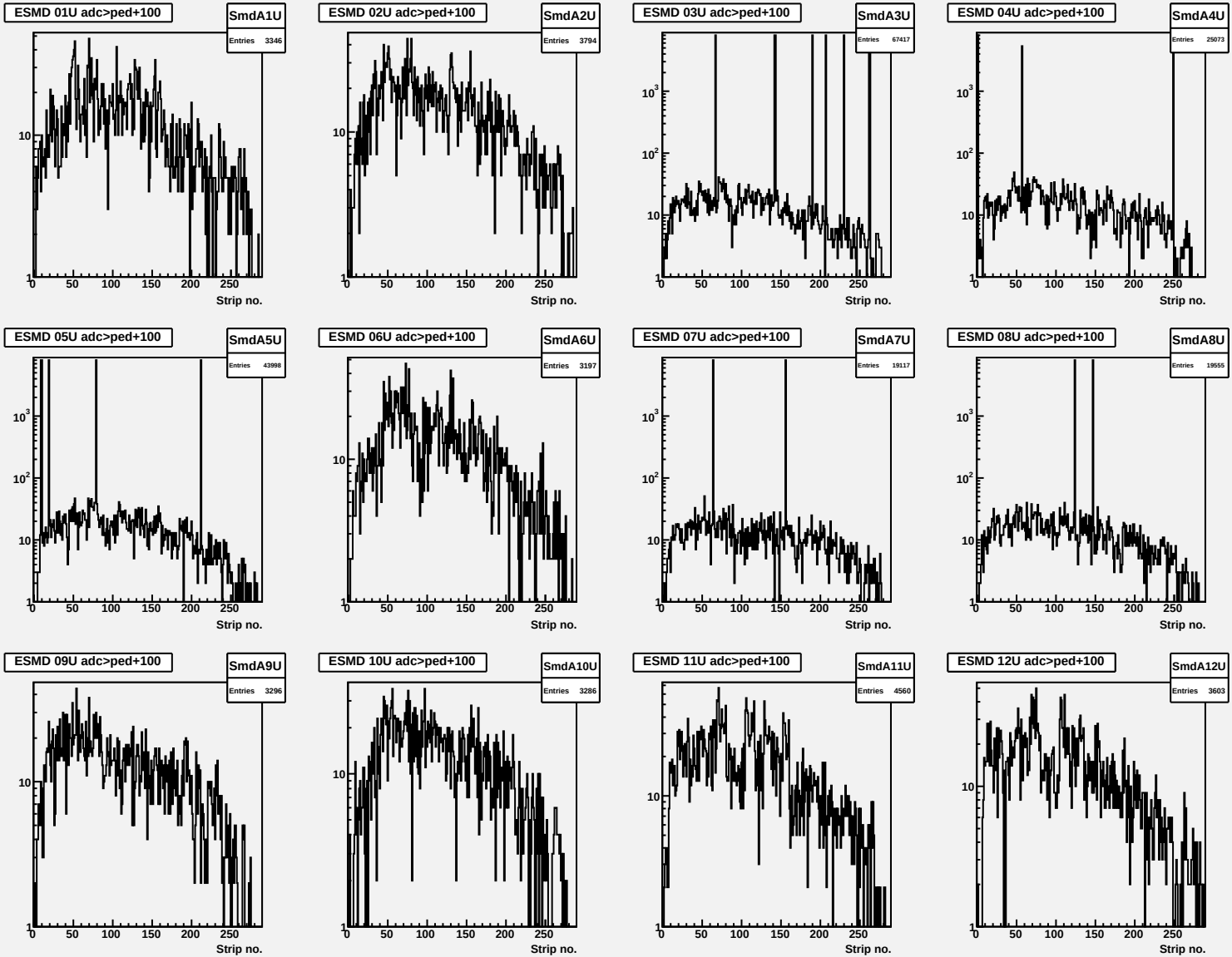

ESMD sanity
ESmdCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

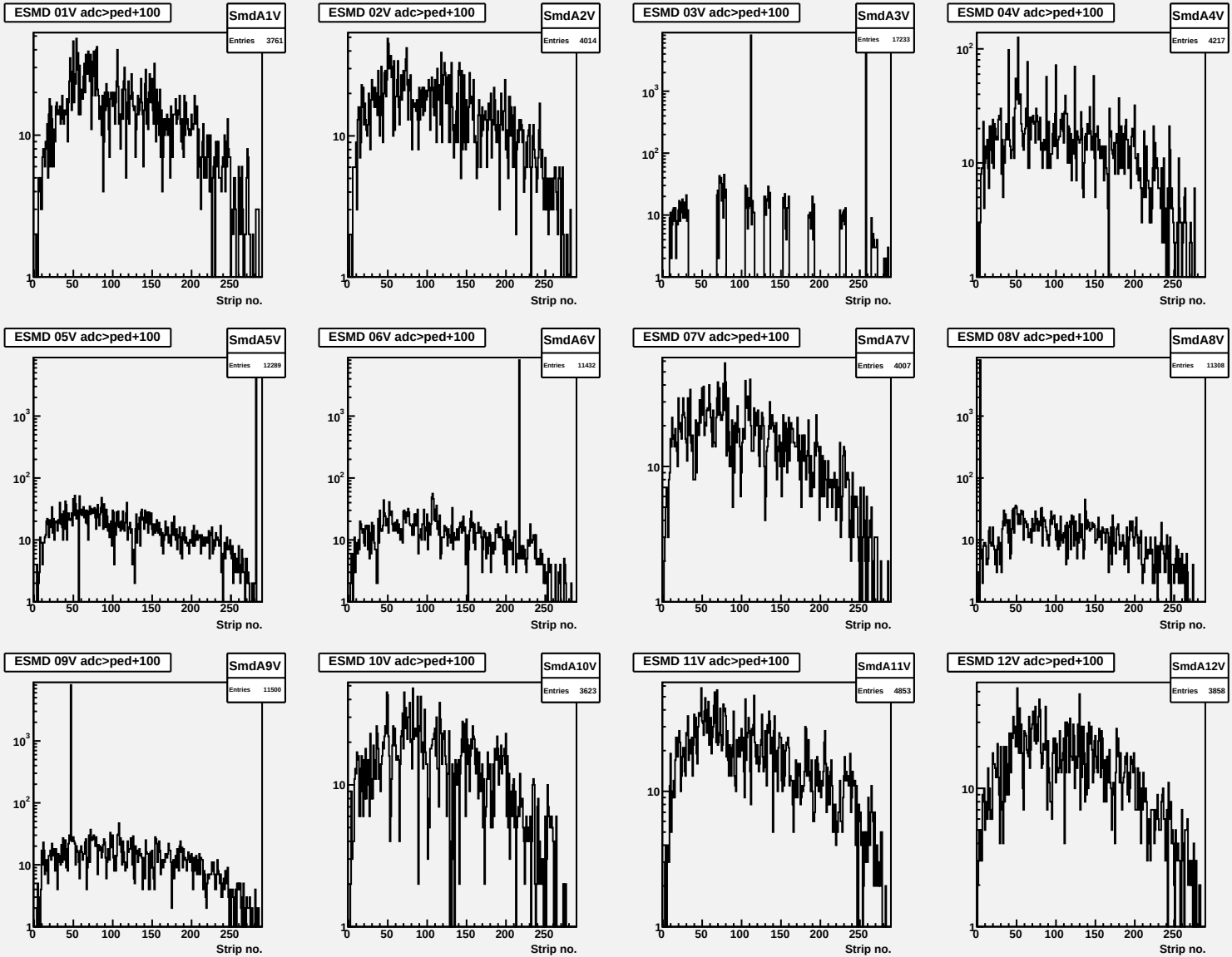

ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

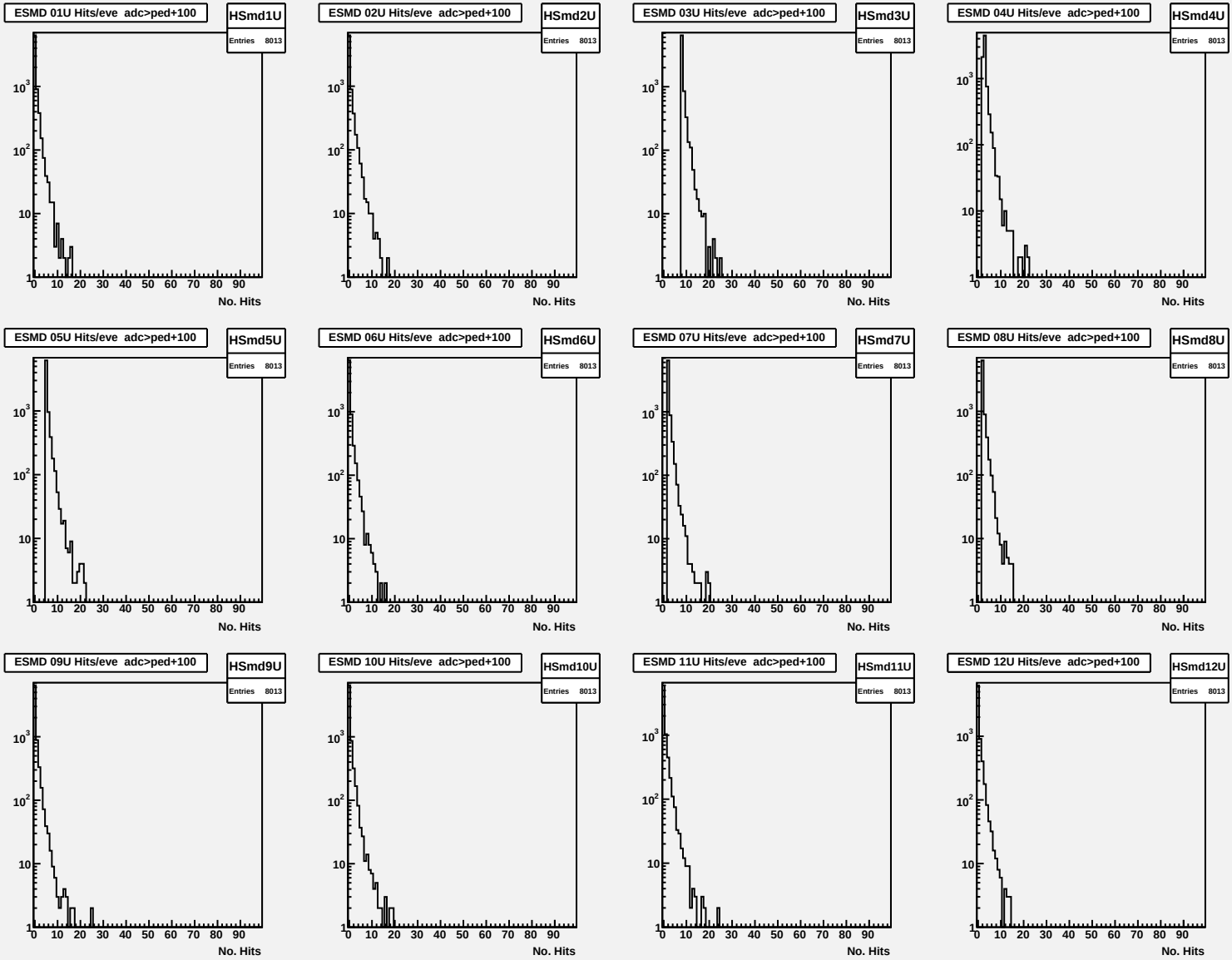

EEMC Tower hits>ped+40
TowHits
Entries 5555
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50
EEMC pres-1 hits>ped+200
Pre1Hits
Entries 5903
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50
EEMC pres-2 hits>ped+200
Pre2Hits
Entries 36944
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50
EEMC post hits>ped+50
PostHits
Entries 61827
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

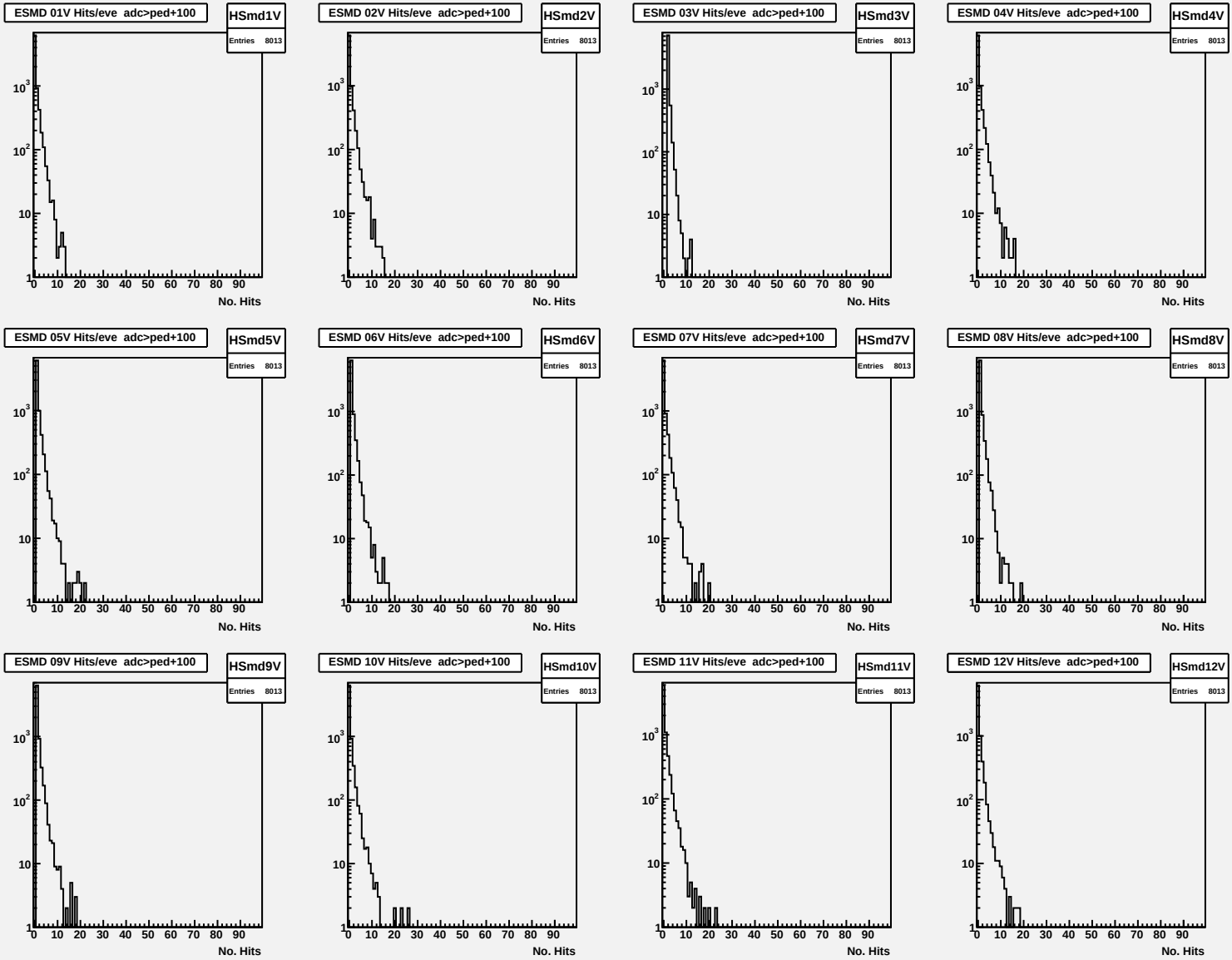

MAPMT Hits adc>ped+thr
MAPMHits
Entries 397011
tube no.
Crate ID
12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
65 70 75 80 85 90 95 100 105 110
2 4 6 8 10 12
1 10 10 10 10 10


MAPMT Hits adc>ped+thr
MAPMHits2
Entries 397011
tube no.
Crate ID
6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
90 95 100 105 110
2 4 6 8 10 12
1 10 10 10 10 10


ESMD 01U adc>ped+100
SmdA1U
Entries 3346
ESMD 02U adc>ped+100
SmdA2U
Entries 3794
ESMD 03U adc>ped+100
SmdA3U
Entries 67417
ESMD 04U adc>ped+100
SmdA4U
Entries 25073
ESMD 05U adc>ped+100
SmdA5U
Entries 43998
ESMD 06U adc>ped+100
SmdA6U
Entries 3197
ESMD 07U adc>ped+100
SmdA7U
Entries 19117
ESMD 08U adc>ped+100
SmdA8U
Entries 19555
ESMD 09U adc>ped+100
SmdA9U
Entries 3296
ESMD 10U adc>ped+100
SmdA10U
Entries 3286
ESMD 11U adc>ped+100
SmdA11U
Entries 4560
ESMD 12U adc>ped+100
SmdA12U
Entries 3603
Strip no.


ESMD 01V adc>ped+100
SmdA1V
Entries 3761
ESMD 02V adc>ped+100
SmdA2V
Entries 4014
ESMD 03V adc>ped+100
SmdA3V
Entries 17233
ESMD 04V adc>ped+100
SmdA4V
Entries 4217
ESMD 05V adc>ped+100
SmdA5V
Entries 12289
ESMD 06V adc>ped+100
SmdA6V
Entries 11432
ESMD 07V adc>ped+100
SmdA7V
Entries 4007
ESMD 08V adc>ped+100
SmdA8V
Entries 11308
ESMD 09V adc>ped+100
SmdA9V
Entries 11500
ESMD 10V adc>ped+100
SmdA10V
Entries 3623
ESMD 11V adc>ped+100
SmdA11V
Entries 4853
ESMD 12V adc>ped+100
SmdA12V
Entries 3858
Strip no.


ESMD 01U Hits/eve adc>ped+100
HSmd1U
Entries 8013
ESMD 02U Hits/eve adc>ped+100
HSmd2U
Entries 8013
ESMD 03U Hits/eve adc>ped+100
HSmd3U
Entries 8013
ESMD 04U Hits/eve adc>ped+100
HSmd4U
Entries 8013
ESMD 05U Hits/eve adc>ped+100
HSmd5U
Entries 8013
ESMD 06U Hits/eve adc>ped+100
HSmd6U
Entries 8013
ESMD 07U Hits/eve adc>ped+100
HSmd7U
Entries 8013
ESMD 08U Hits/eve adc>ped+100
HSmd8U
Entries 8013
ESMD 09U Hits/eve adc>ped+100
HSmd9U
Entries 8013
ESMD 10U Hits/eve adc>ped+100
HSmd10U
Entries 8013
ESMD 11U Hits/eve adc>ped+100
HSmd11U
Entries 8013
ESMD 12U Hits/eve adc>ped+100
HSmd12U
Entries 8013
No. Hits


ESMD 01V Hits/eve adc>ped+100
HSmd1V
Entries 8013
ESMD 02V Hits/eve adc>ped+100
HSmd2V
Entries 8013
ESMD 03V Hits/eve adc>ped+100
HSmd3V
Entries 8013
ESMD 04V Hits/eve adc>ped+100
HSmd4V
Entries 8013
ESMD 05V Hits/eve adc>ped+100
HSmd5V
Entries 8013
ESMD 06V Hits/eve adc>ped+100
HSmd6V
Entries 8013
ESMD 07V Hits/eve adc>ped+100
HSmd7V
Entries 8013
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HSmd8V
Entries 8013
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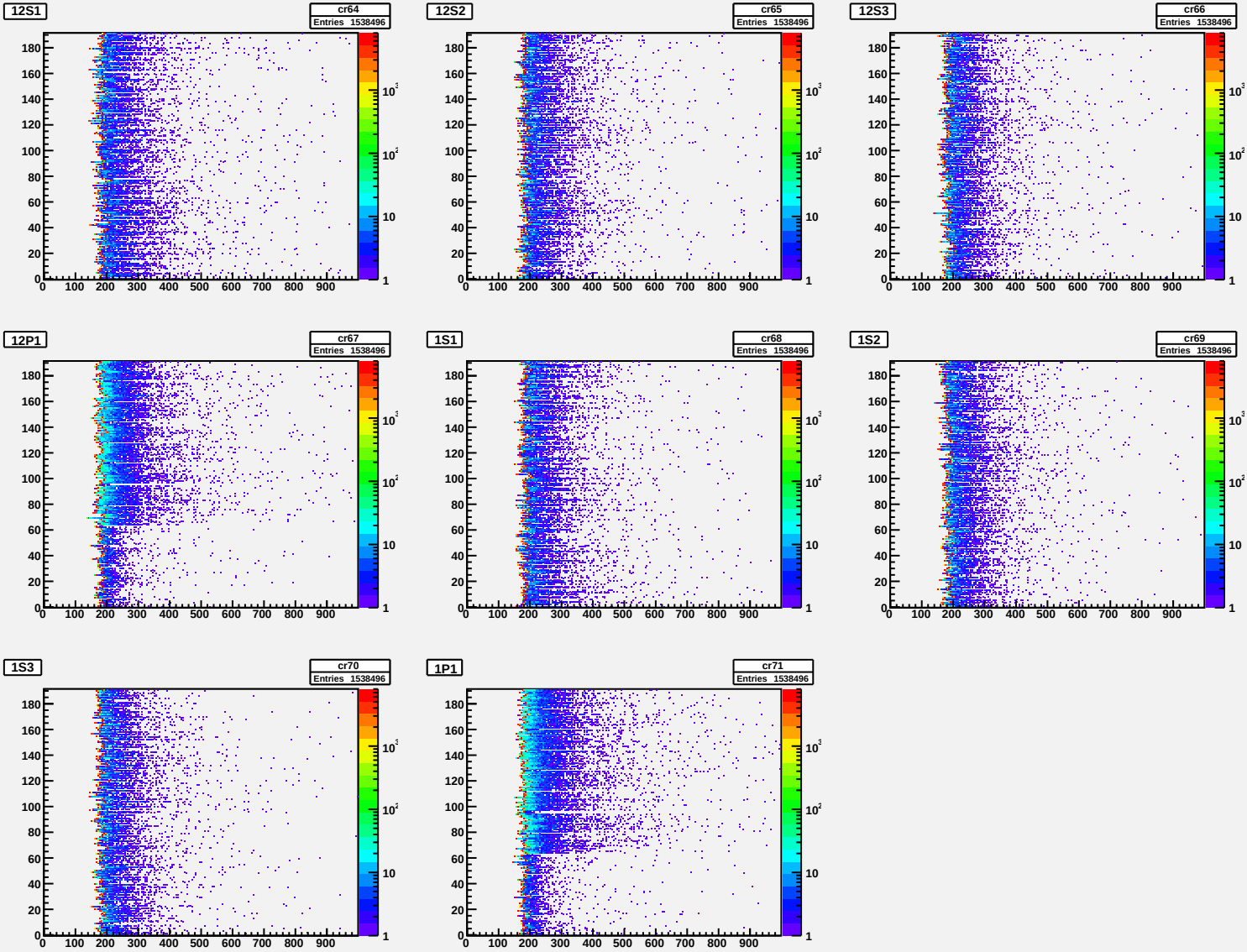
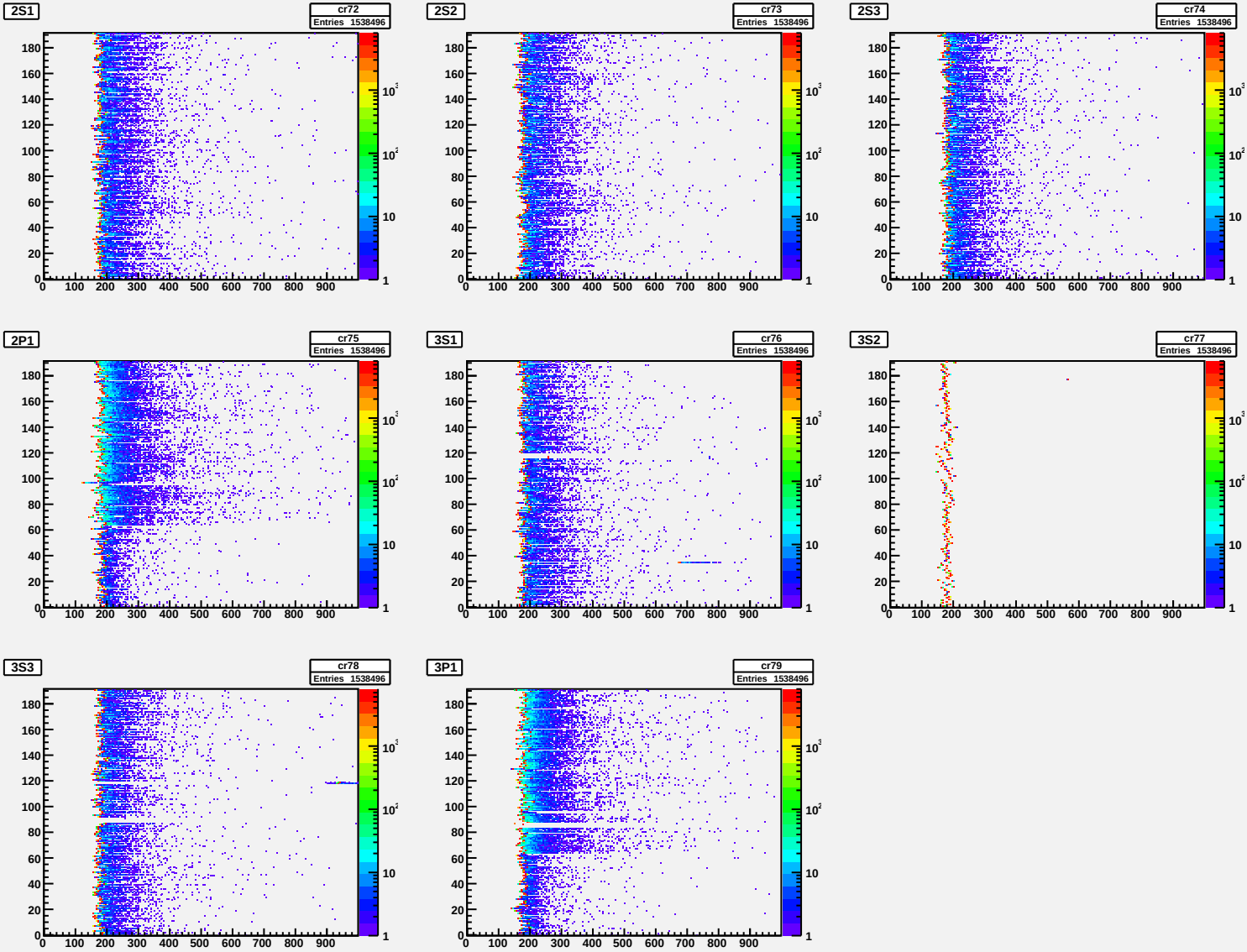
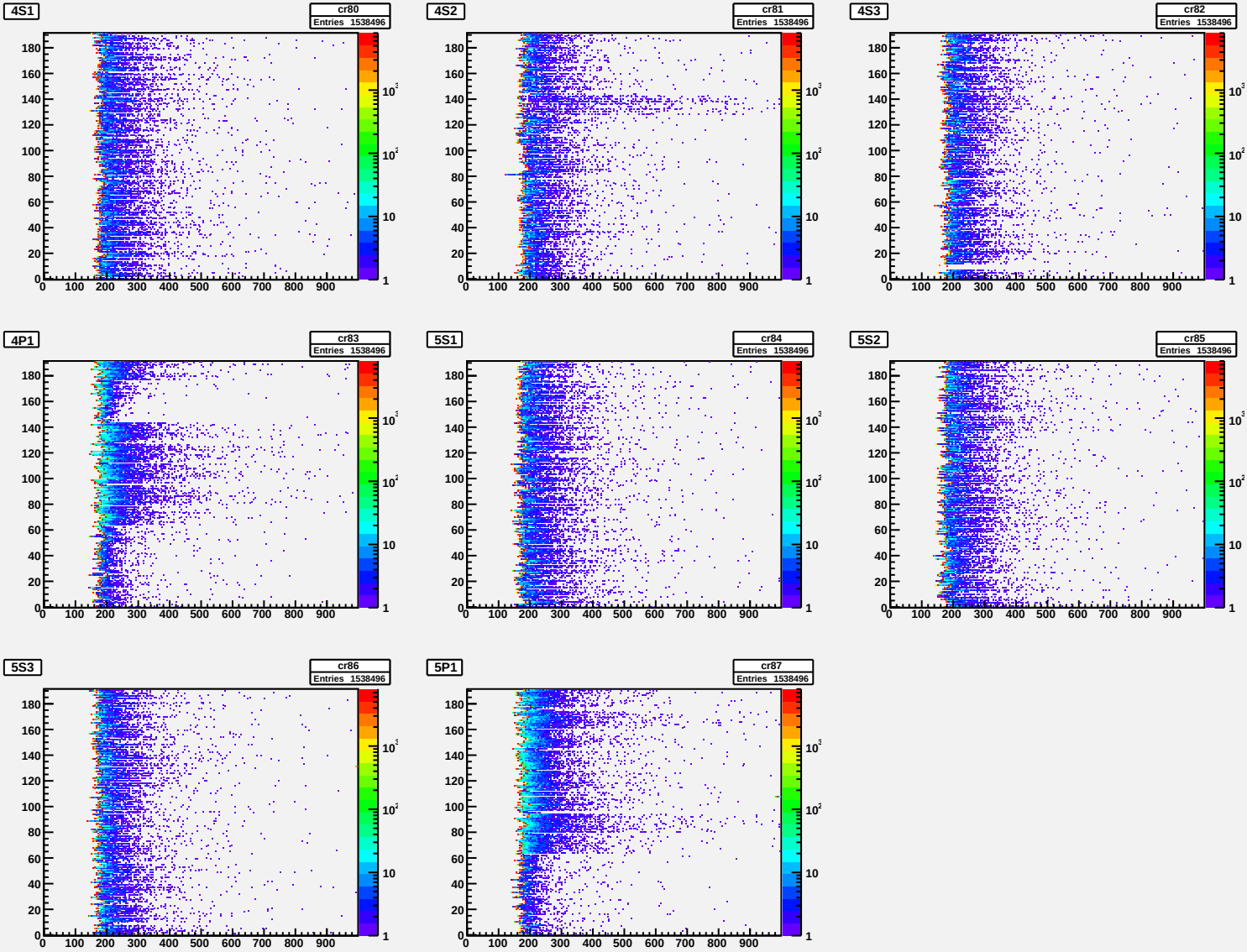
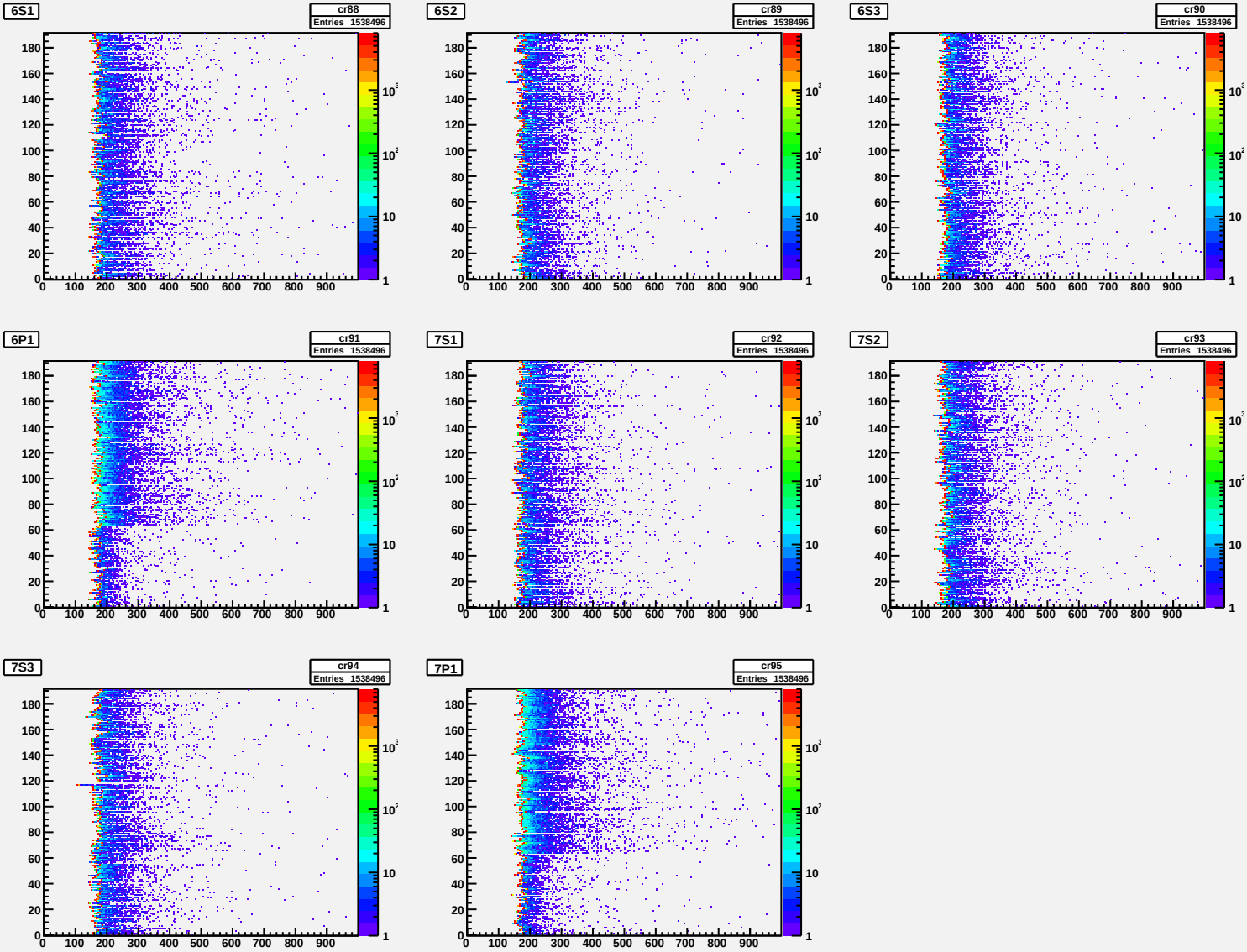
HSmd9V
Entries 8013
ESMD 10V Hits/eve adc>ped+100
HSmd10V
Entries 8013
ESMD 11V Hits/eve adc>ped+100
HSmd11V
Entries 8013
ESMD 12V Hits/eve adc>ped+100
HSmd12V
Entries 8013
1
10
10^2
10^3
0 10 20 30 40 50 60 70 80 90
No. Hits


12S1
cr64
Entries 1538496
12S2
cr65
Entries 1538496
12S3
cr66
Entries 1538496
12P1
cr67
Entries 1538496
1S1
cr68
Entries 1538496
1S2
cr69
Entries 1538496
1S3
cr70
Entries 1538496
1P1
cr71
Entries 1538496


2S1
cr72
Entries 1538496
2S2
cr73
Entries 1538496
2S3
cr74
Entries 1538496
2P1
cr75
Entries 1538496
3S1
cr76
Entries 1538496
3S2
cr77
Entries 1538496
3S3
cr78
Entries 1538496
3P1
cr79
Entries 1538496


4S1
cr80
Entries 1538496
4S2
cr81
Entries 1538496
4S3
cr82
Entries 1538496
4P1
cr83
Entries 1538496
5S1
cr84
Entries 1538496
5S2
cr85
Entries 1538496
5S3
cr86
Entries 1538496
5P1
cr87
Entries 1538496


6S1
cr88
Entries 1538496
6S2
cr89
Entries 1538496
6S3
cr90
Entries 1538496
6P1
cr91
Entries 1538496
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cr92
Entries 1538496
7S2
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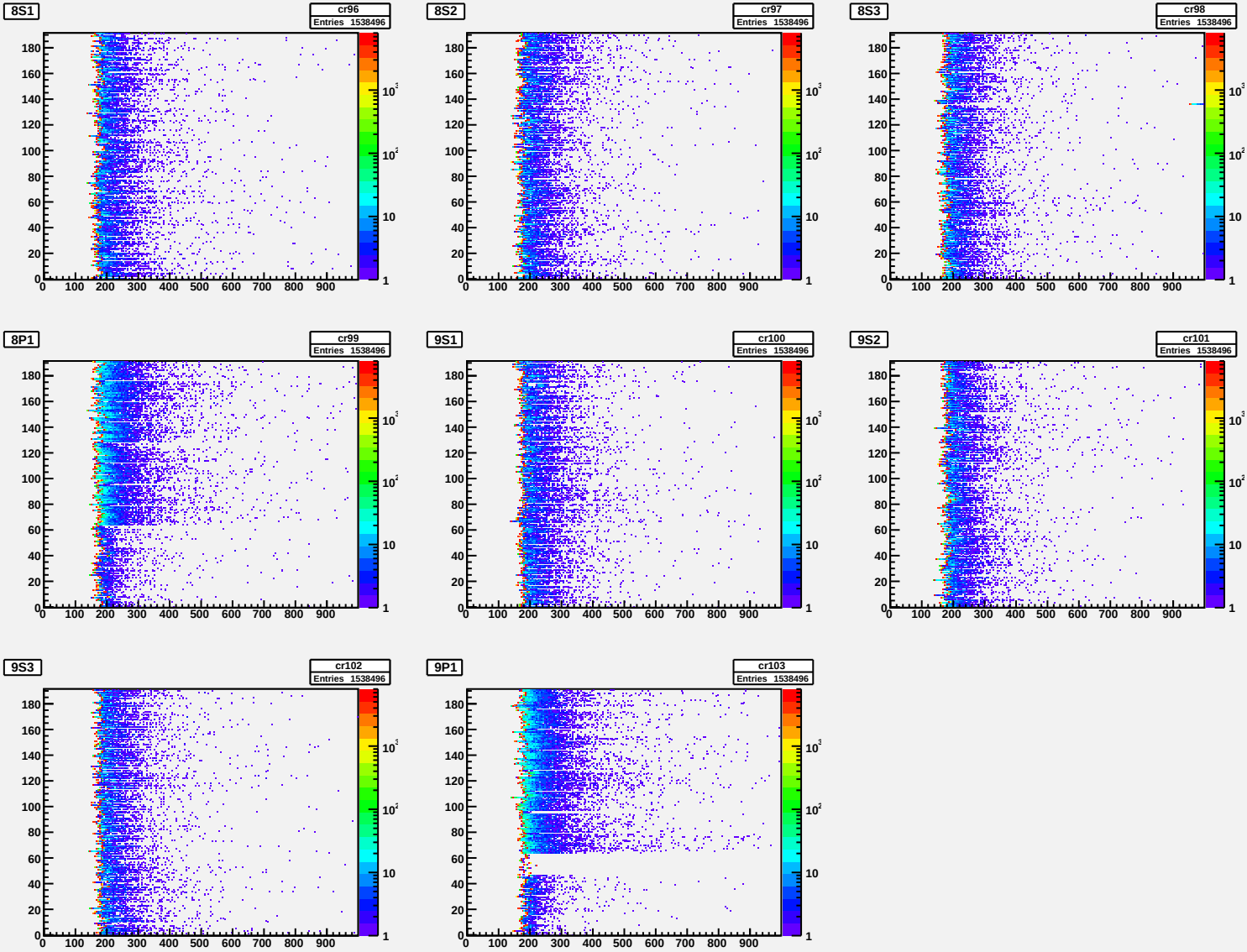
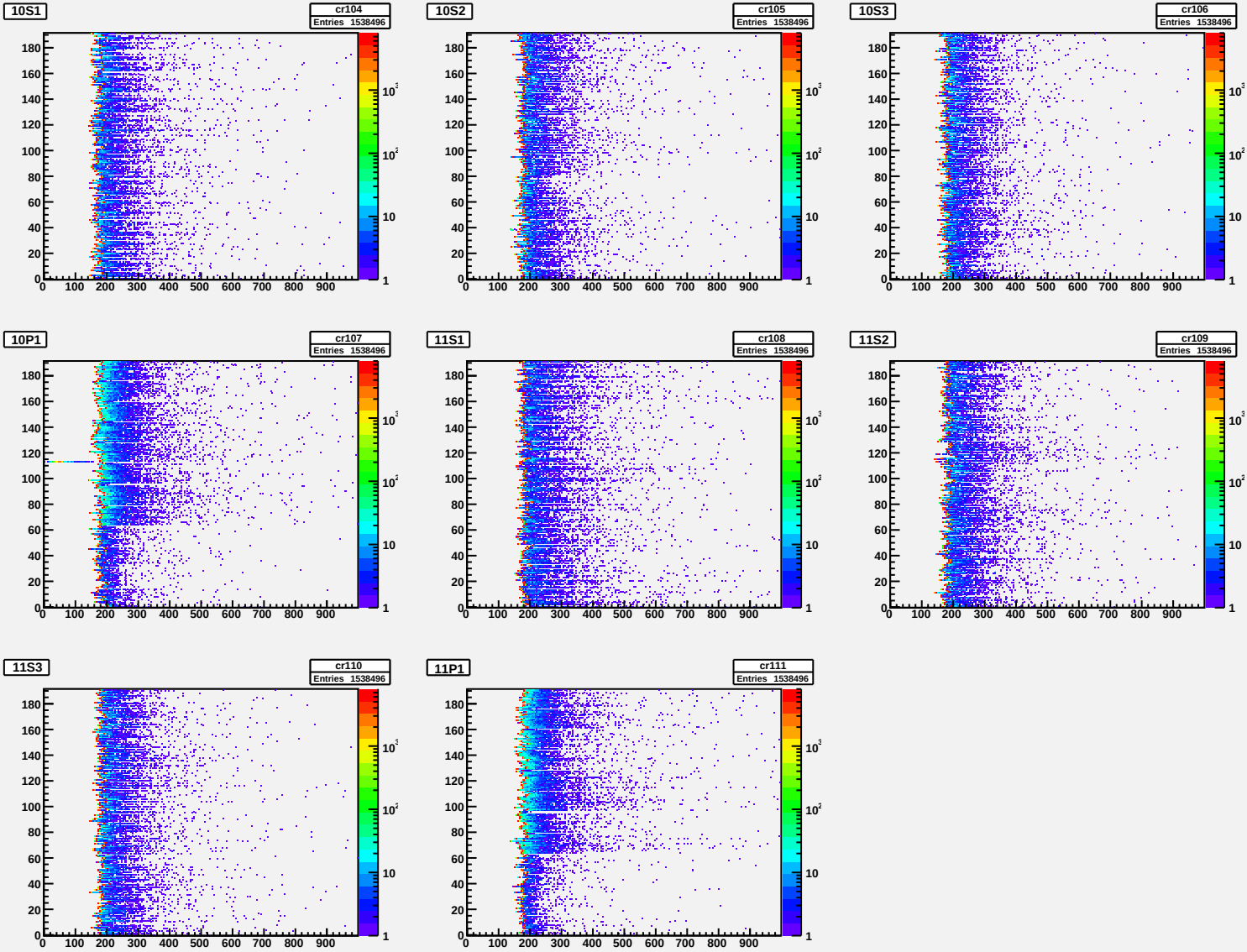
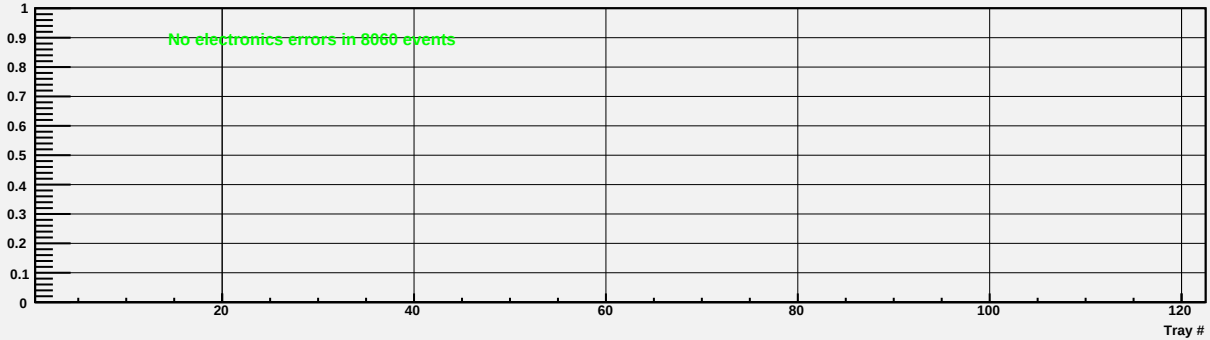
cr94
Entries 1538496
7P1
cr95
Entries 1538496

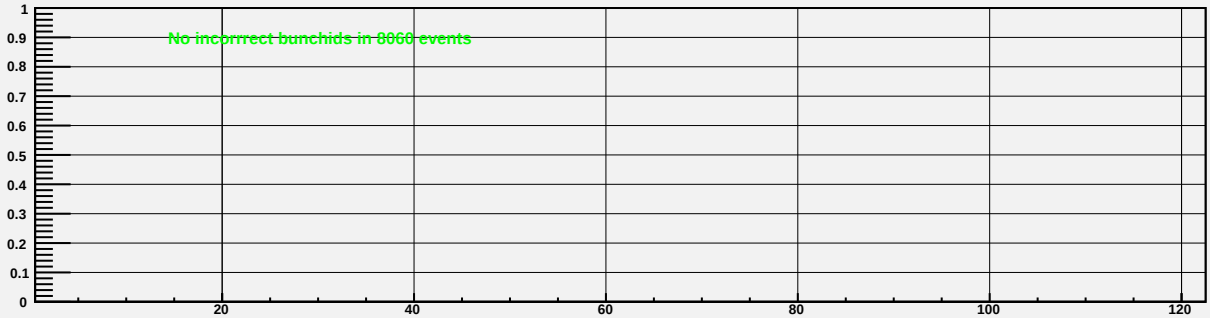

8S1
cr96
Entries 1538496
8S2
cr97
Entries 1538496
8S3
cr98
Entries 1538496
8P1
cr99
Entries 1538496
9S1
cr100
Entries 1538496
9S2
cr101
Entries 1538496
9S3
cr102
Entries 1538496
9P1
cr103
Entries 1538496


10S1
cr104
Entries 1538496
10S2
cr105
Entries 1538496
10S3
cr106
Entries 1538496
10P1
cr107
Entries 1538496
11S1
cr108
Entries 1538496
11S2
cr109
Entries 1538496
11S3
cr110
Entries 1538496
11P1
cr111
Entries 1538496

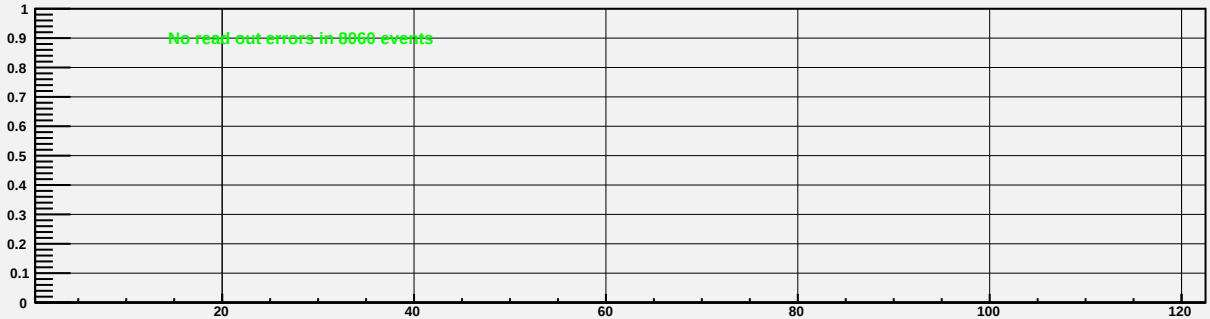
TOF electronics errors



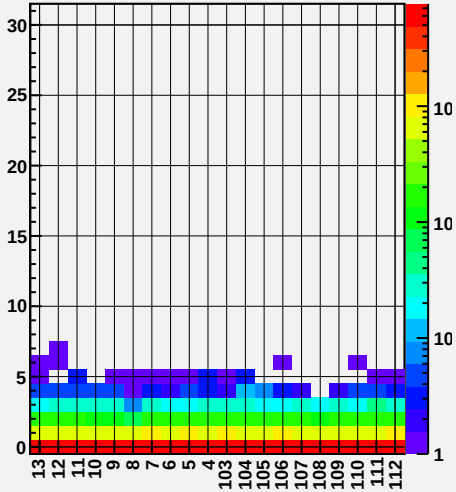
TOF incorrect bunchid errors



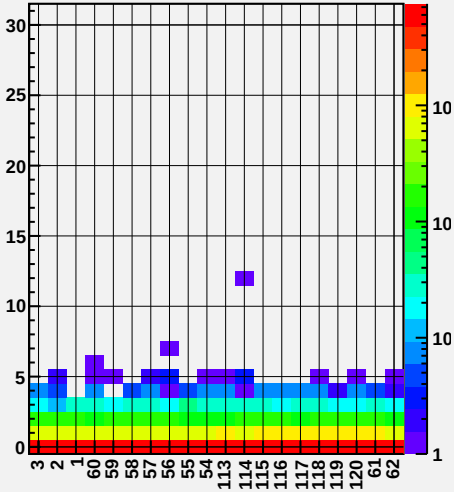
TOF trays not read out (bunchid not found)



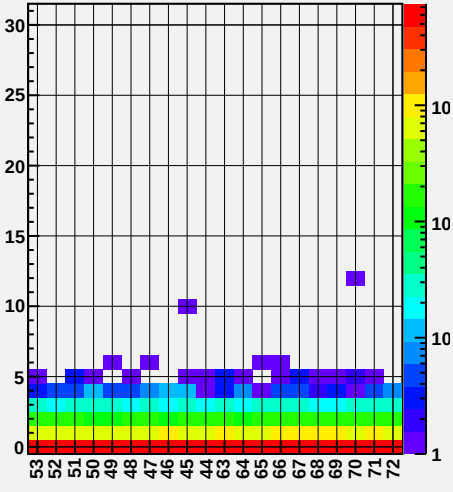
TRG TF001 TofMult by Tray



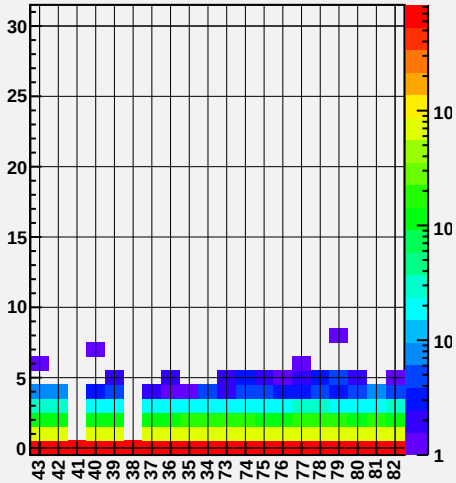
TRG TF002 TofMult by Tray



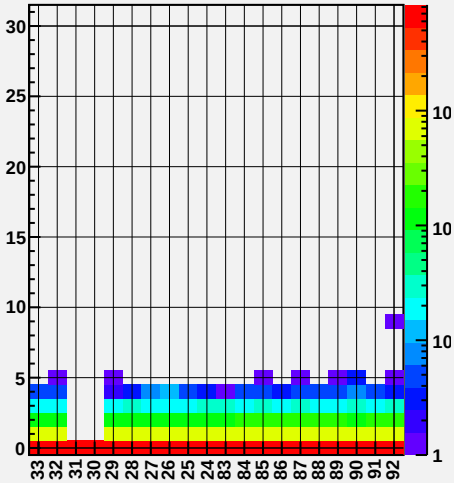
TRG TF003 TofMult by Tray



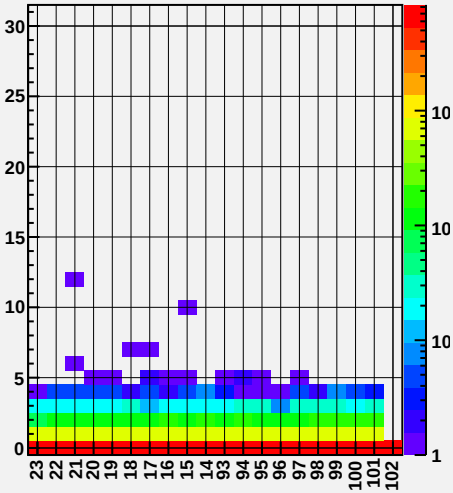
TRG TF004 TofMult by Tray



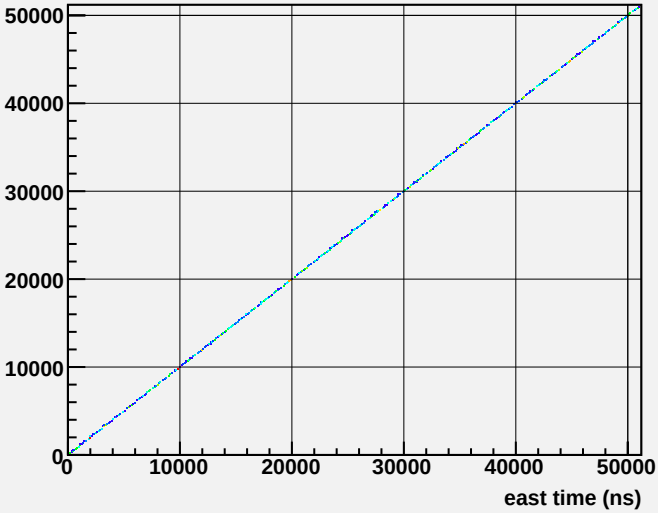
TRG TF005 TofMult by Tray



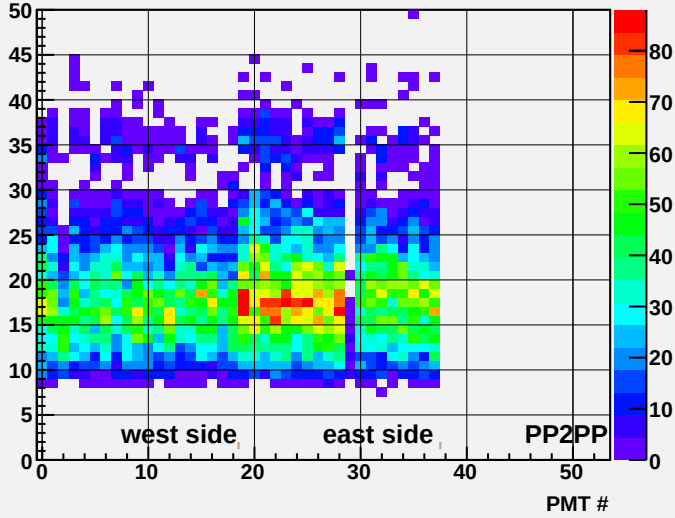
TRG TF006 TofMult by Tray



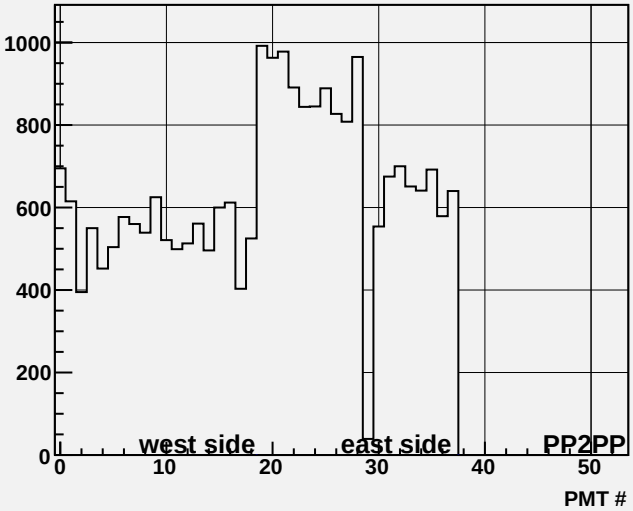
upvpd eastT vs westT



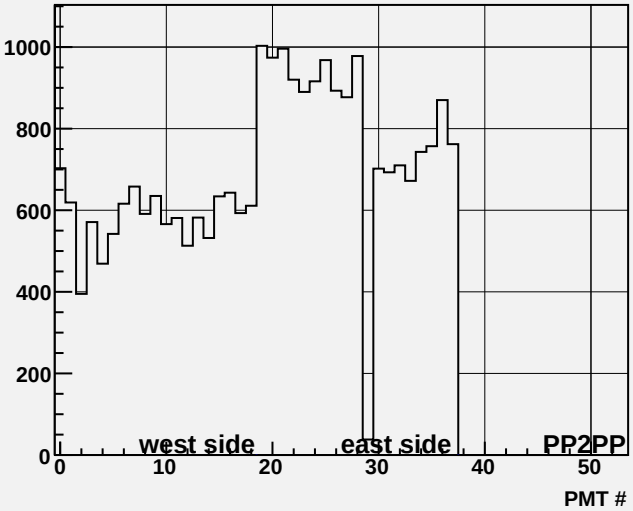
upvpd ToT vs PMT#

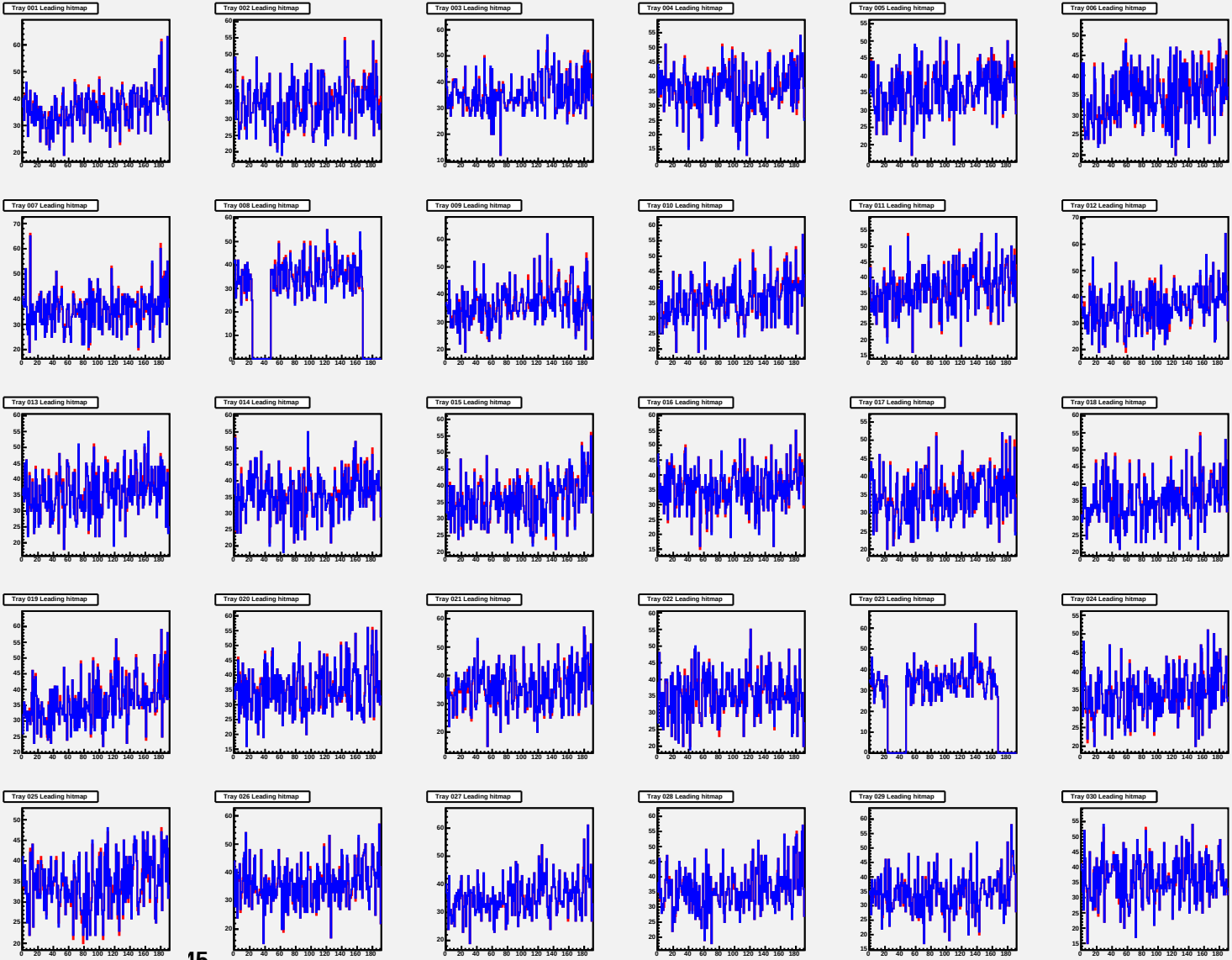


upvpd Trailing edge hitmap



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
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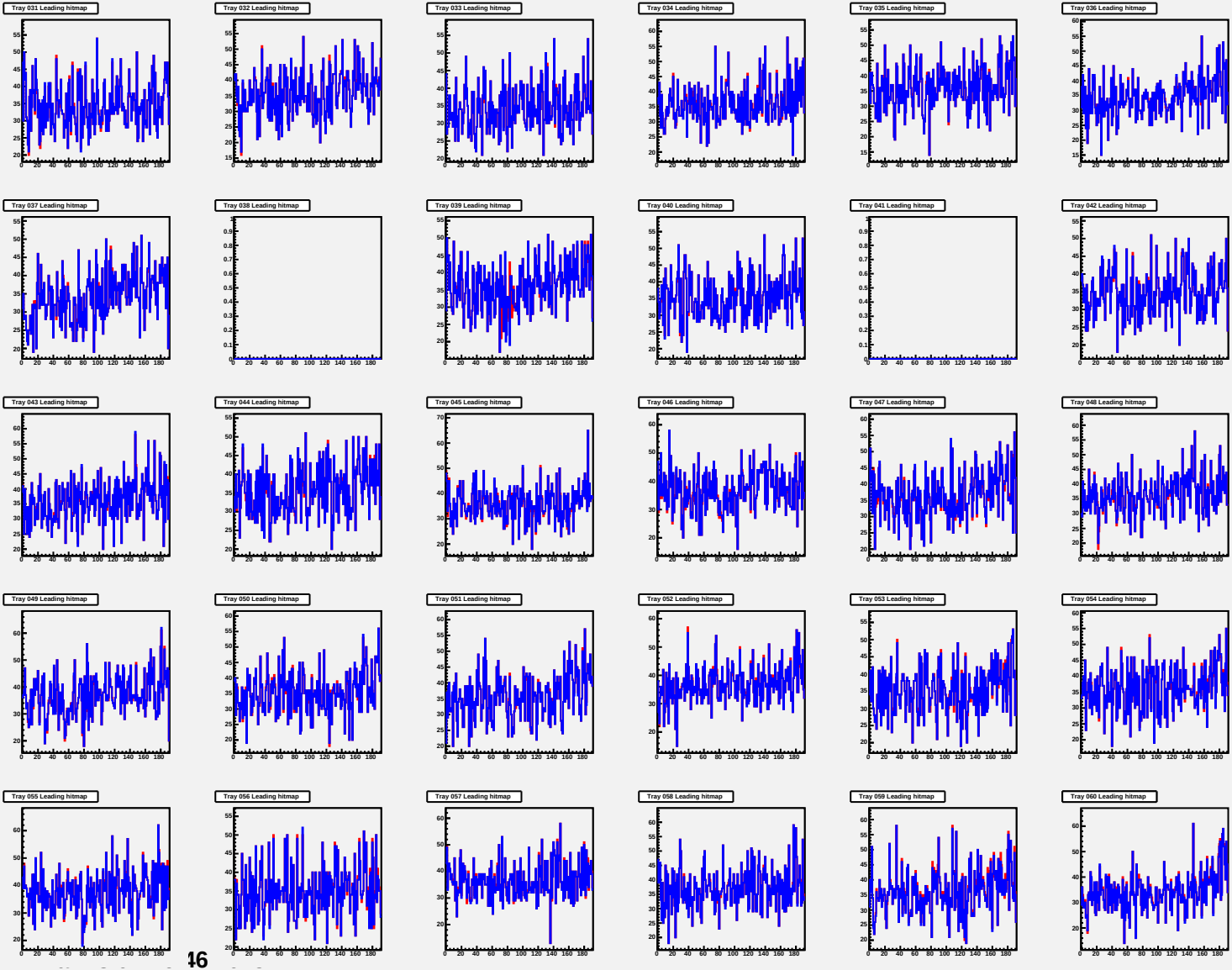
Tray 029 Leading hitmap
Tray 030 Leading hitmap


Tray 031 Leading hitmap
Tray 032 Leading hitmap
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Tray 037 Leading hitmap
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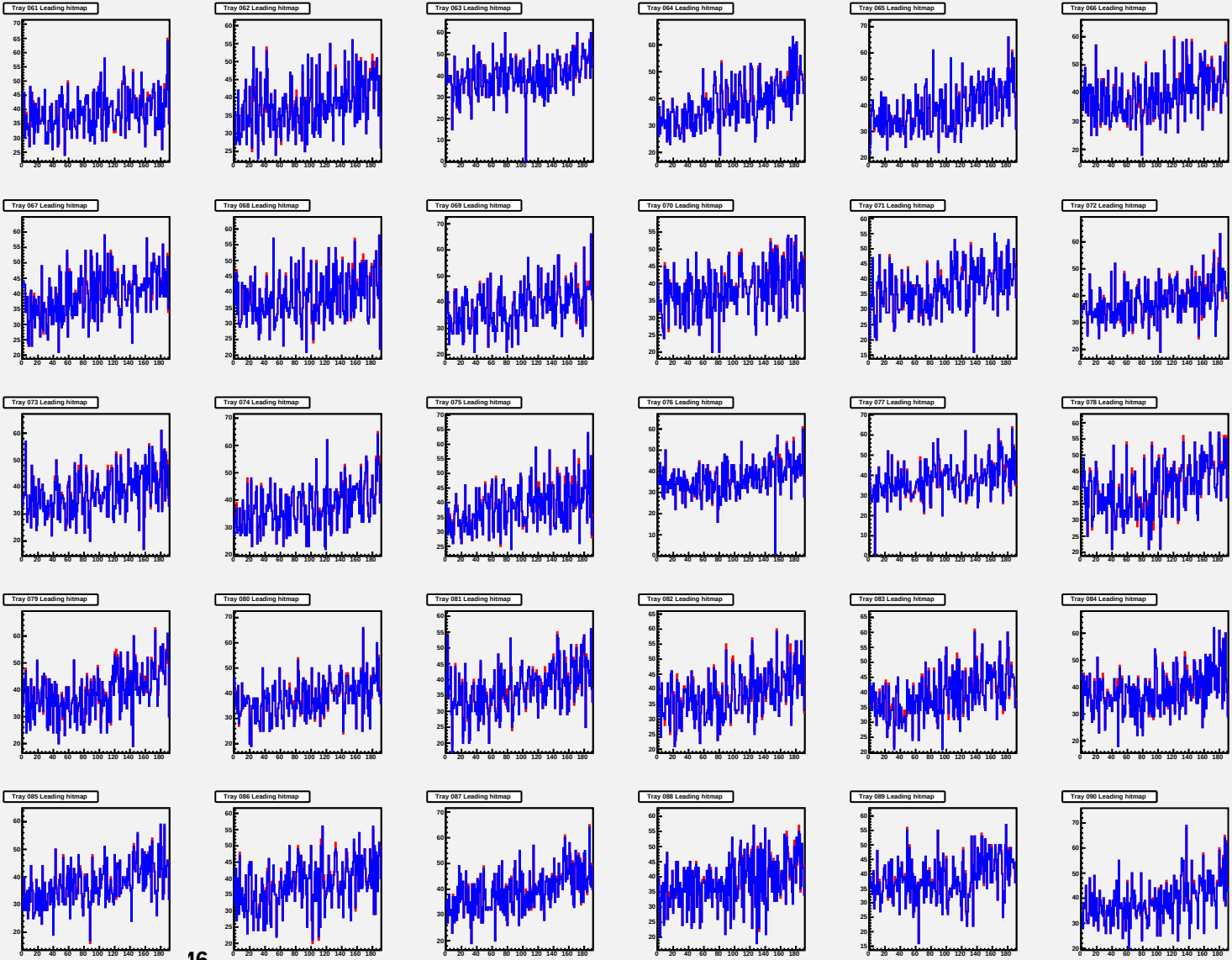
Tray 060 Leading hitmap


Tray 061 Leading hitmap
Tray 062 Leading hitmap
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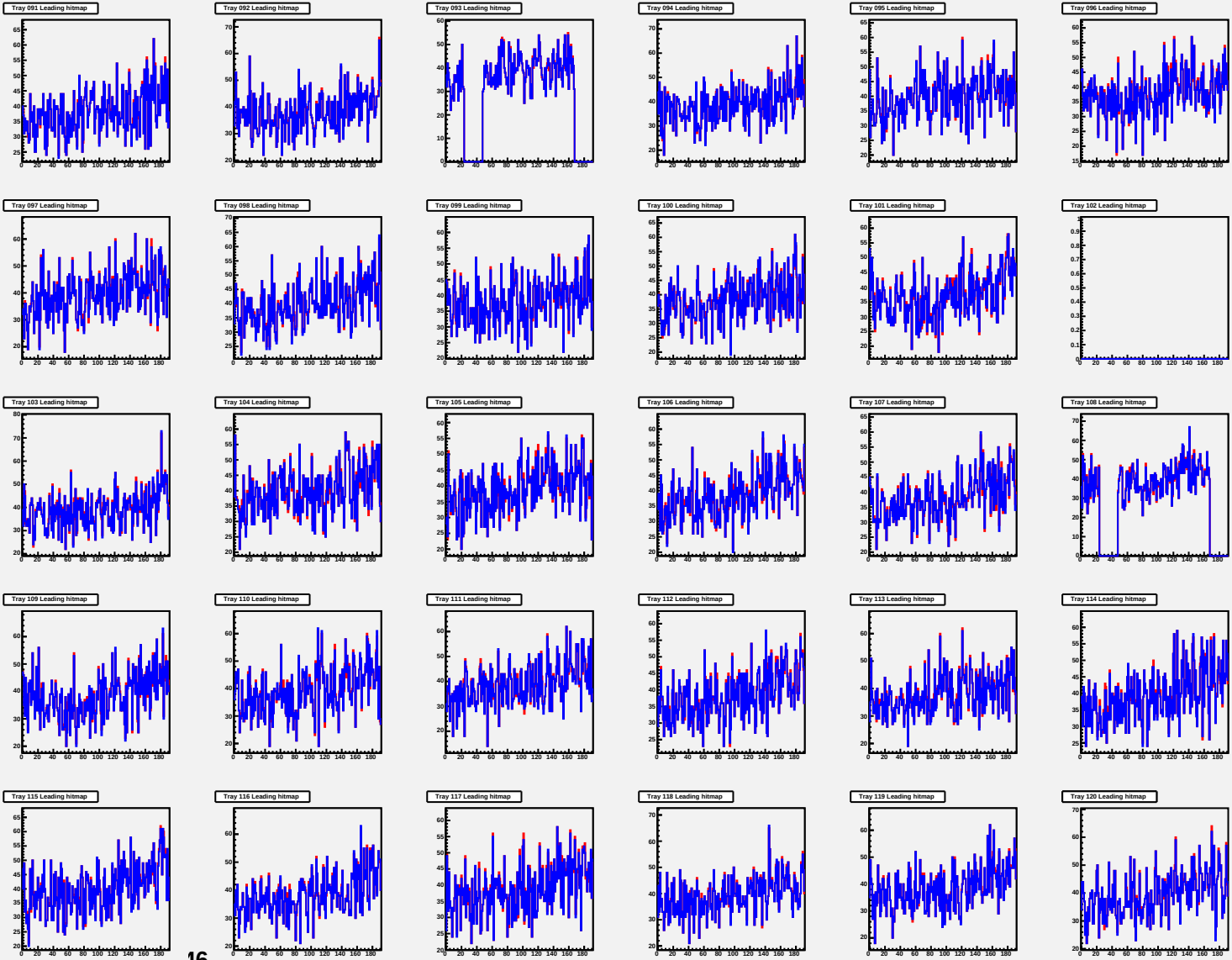
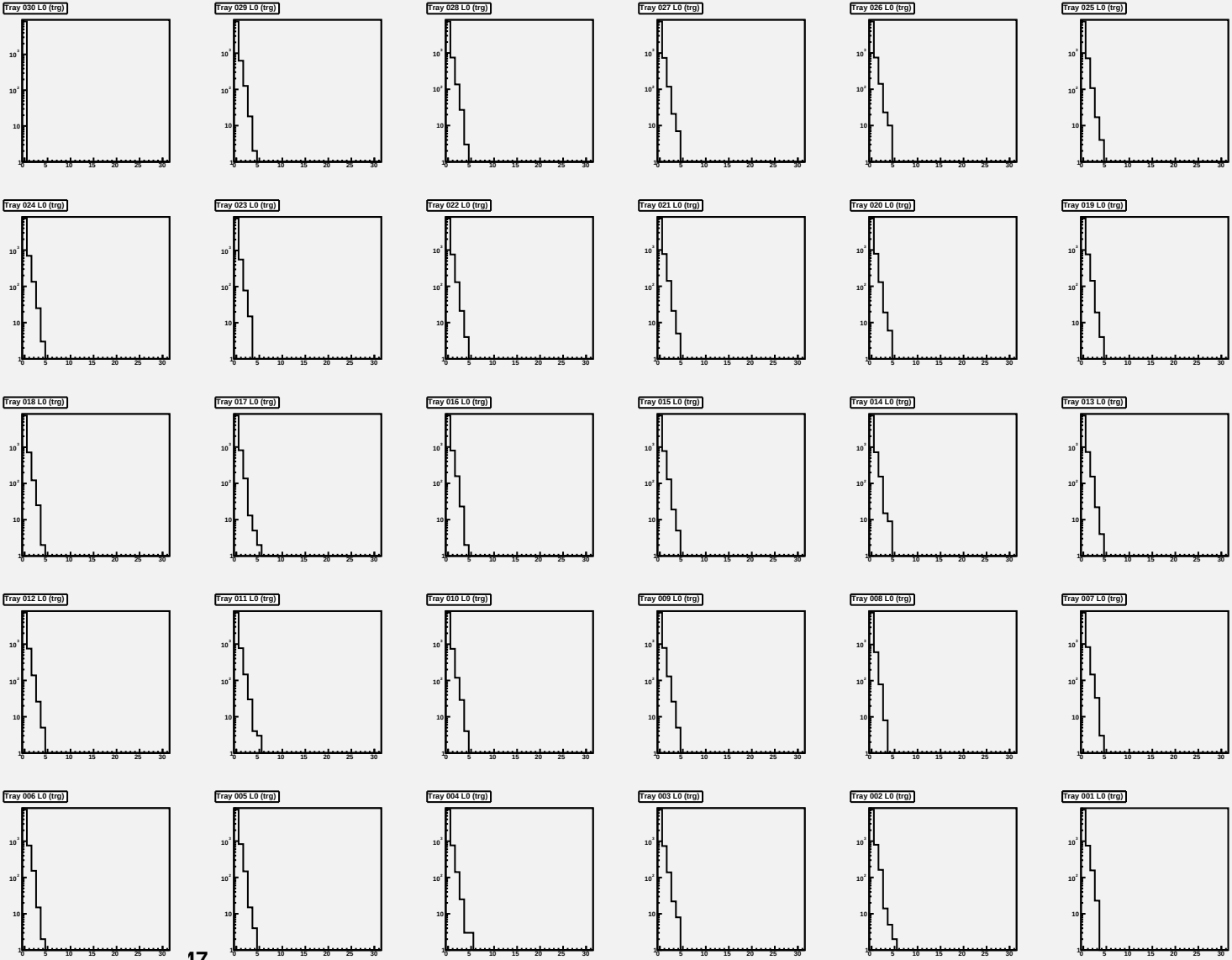
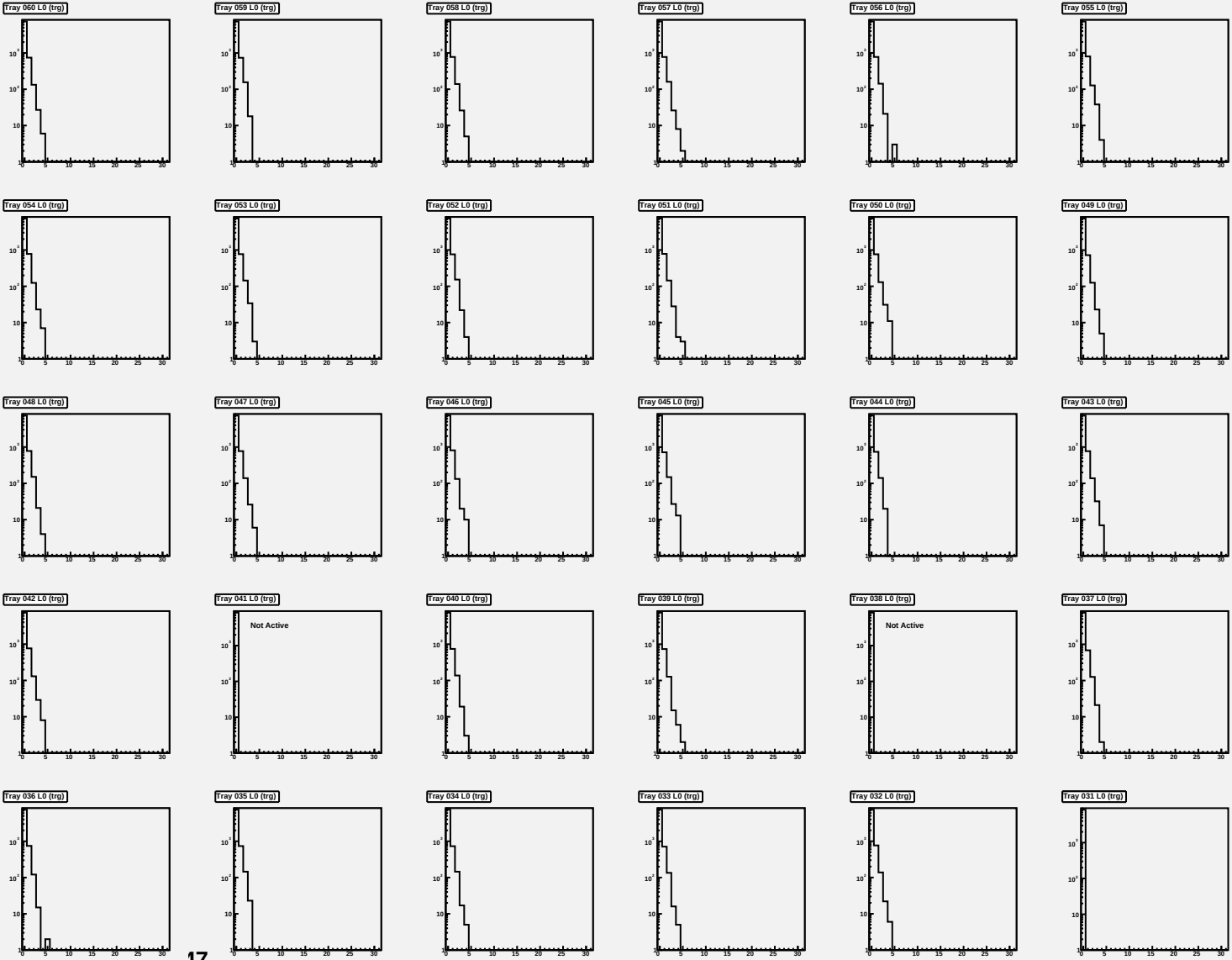
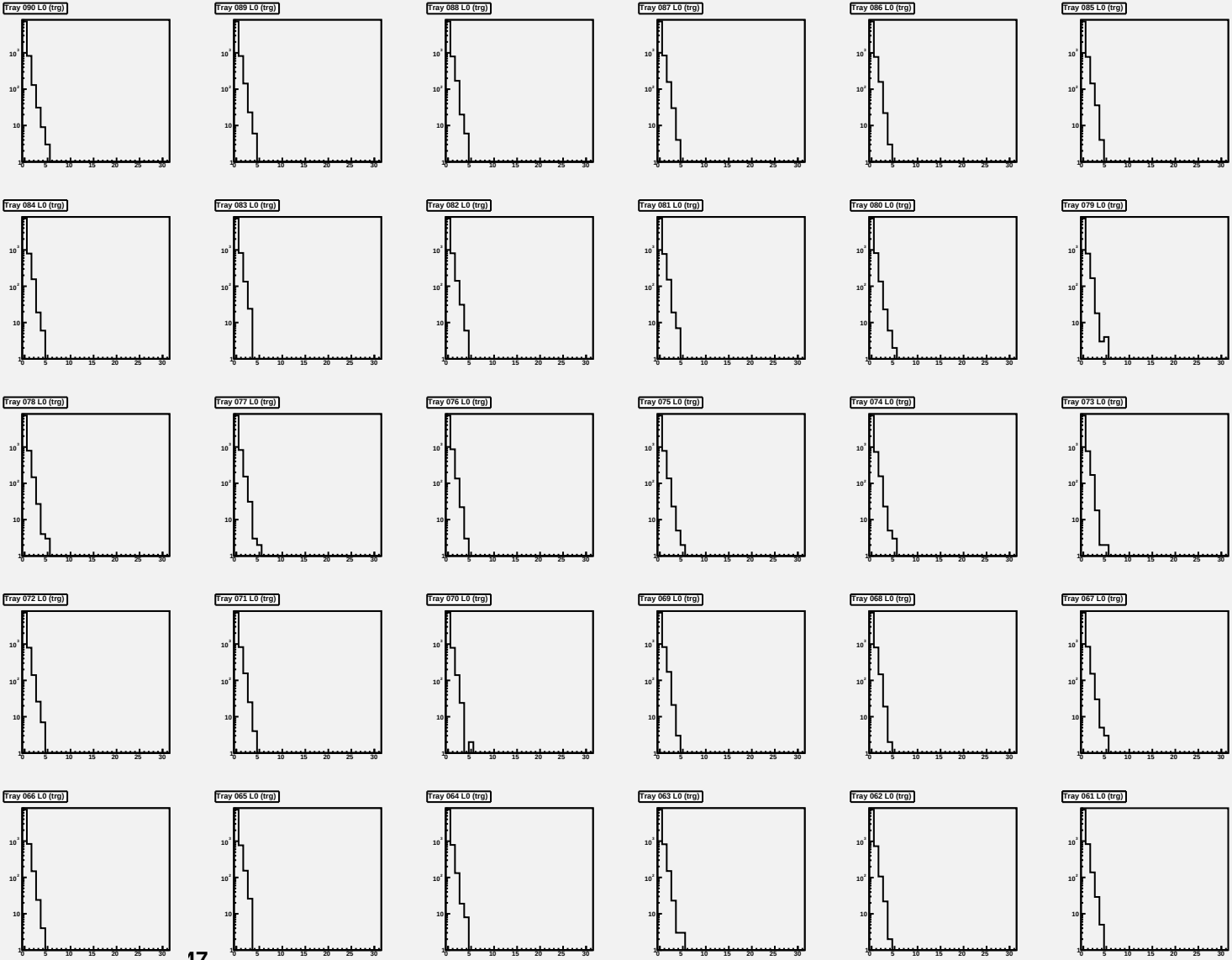
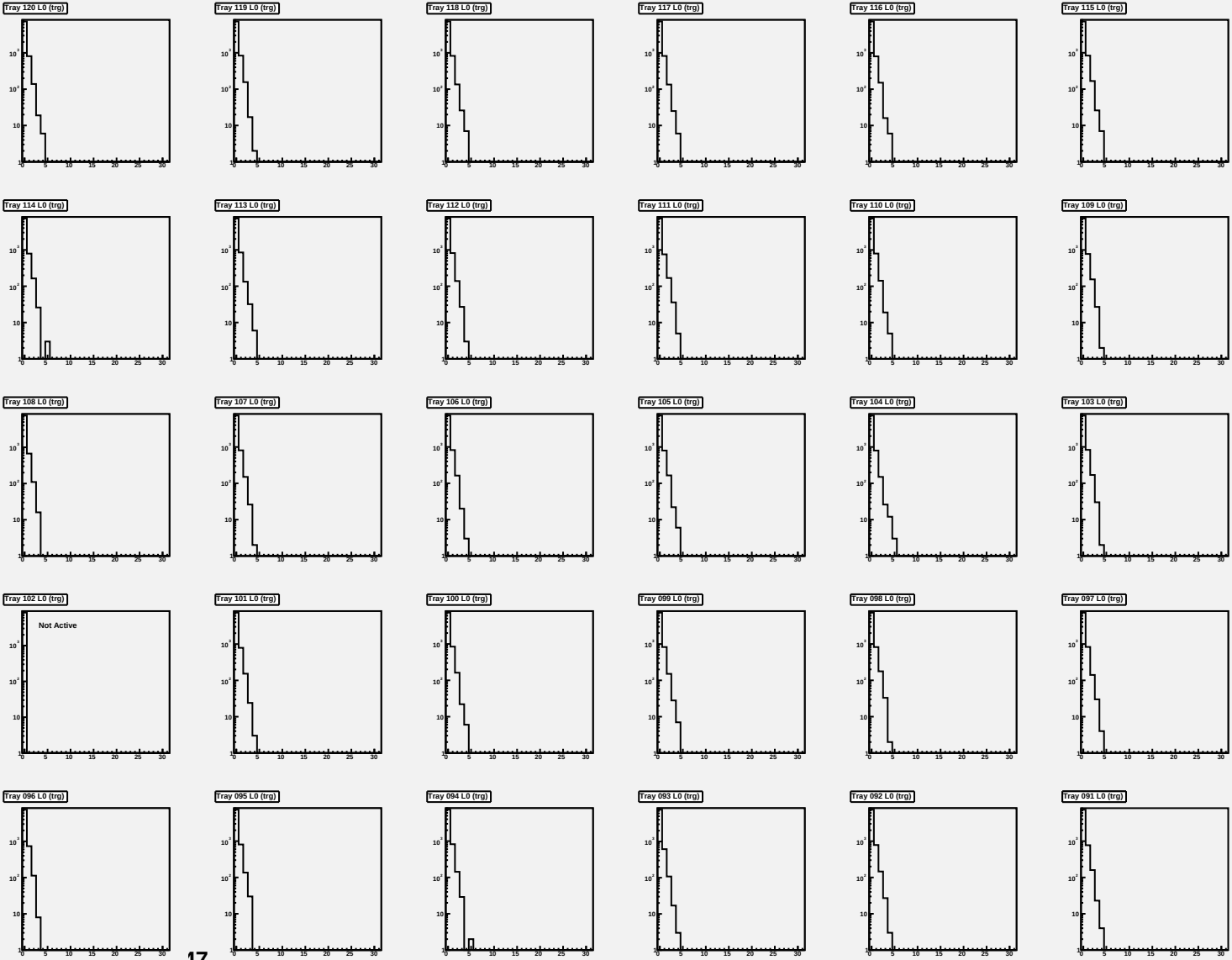
Tray 089 Leading hitmap
Tray 090 Leading hitmap

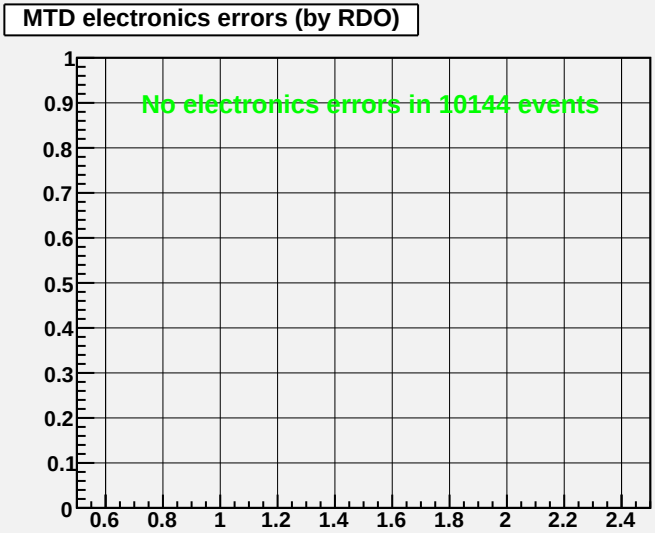

Tray 091 Leading hitmap
Tray 092 Leading hitmap
Tray 093 Leading hitmap
Tray 094 Leading hitmap
Tray 095 Leading hitmap
Tray 096 Leading hitmap
Tray 097 Leading hitmap
Tray 098 Leading hitmap
Tray 099 Leading hitmap
Tray 100 Leading hitmap
Tray 101 Leading hitmap
Tray 102 Leading hitmap
Tray 103 Leading 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

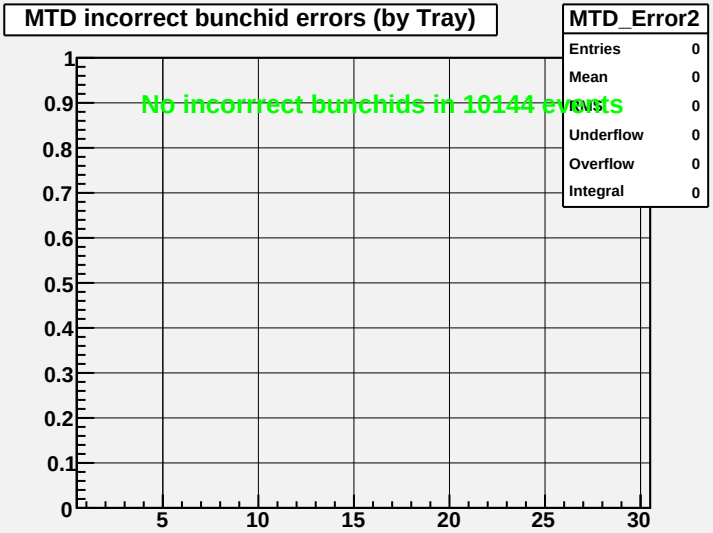

Tray 030 L0 (trg)
Tray 029 L0 (trg)
Tray 028 L0 (trg)
Tray 027 L0 (trg)
Tray 026 L0 (trg)
Tray 025 L0 (trg)
Tray 024 L0 (trg)
Tray 023 L0 (trg)
Tray 022 L0 (trg)
Tray 021 L0 (trg)
Tray 020 L0 (trg)
Tray 019 L0 (trg)
Tray 018 L0 (trg)
Tray 017 L0 (trg)
Tray 016 L0 (trg)
Tray 015 L0 (trg)
Tray 014 L0 (trg)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

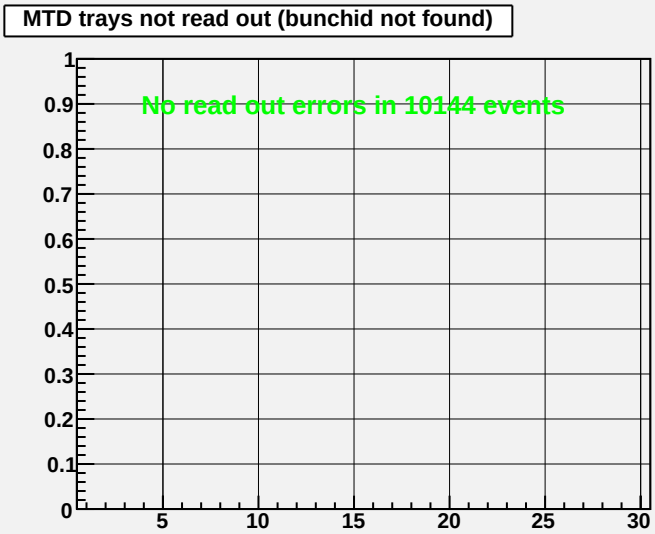

Tray 060 L0 (trg)
Tray 059 L0 (trg)
Tray 058 L0 (trg)
Tray 057 L0 (trg)
Tray 056 L0 (trg)
Tray 055 L0 (trg)
Tray 054 L0 (trg)
Tray 053 L0 (trg)
Tray 052 L0 (trg)
Tray 051 L0 (trg)
Tray 050 L0 (trg)
Tray 049 L0 (trg)
Tray 048 L0 (trg)
Tray 047 L0 (trg)
Tray 046 L0 (trg)
Tray 045 L0 (trg)
Tray 044 L0 (trg)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

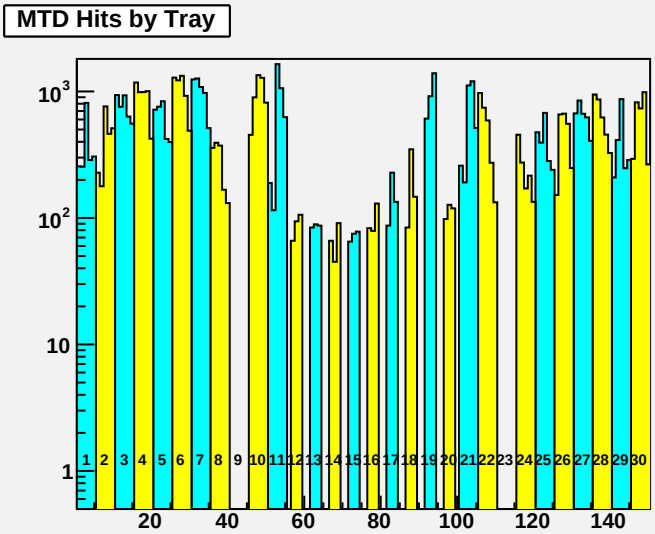

Tray 090 L0 (trg)
Tray 089 L0 (trg)
Tray 088 L0 (trg)
Tray 087 L0 (trg)
Tray 086 L0 (trg)
Tray 085 L0 (trg)
Tray 084 L0 (trg)
Tray 083 L0 (trg)
Tray 082 L0 (trg)
Tray 081 L0 (trg)
Tray 080 L0 (trg)
Tray 079 L0 (trg)
Tray 078 L0 (trg)
Tray 077 L0 (trg)
Tray 076 L0 (trg)
Tray 075 L0 (trg)
Tray 074 L0 (trg)
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)

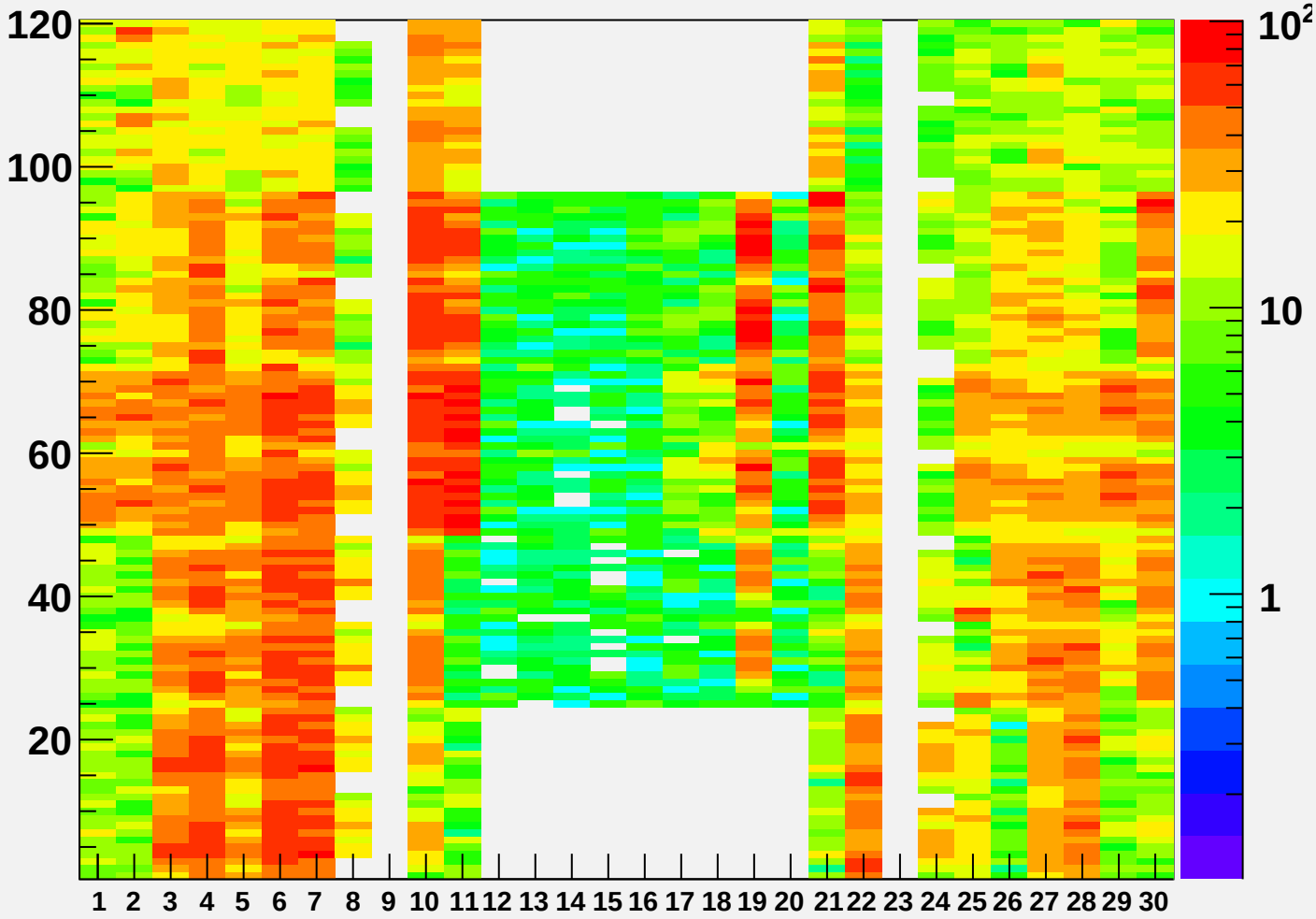

MTD electronics errors (by RDO)
No electronics errors in 10144 events


MTD incorrect bunchid errors (by Tray)
No incorrect bunchids in 10144 events
MTD_Error2
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0

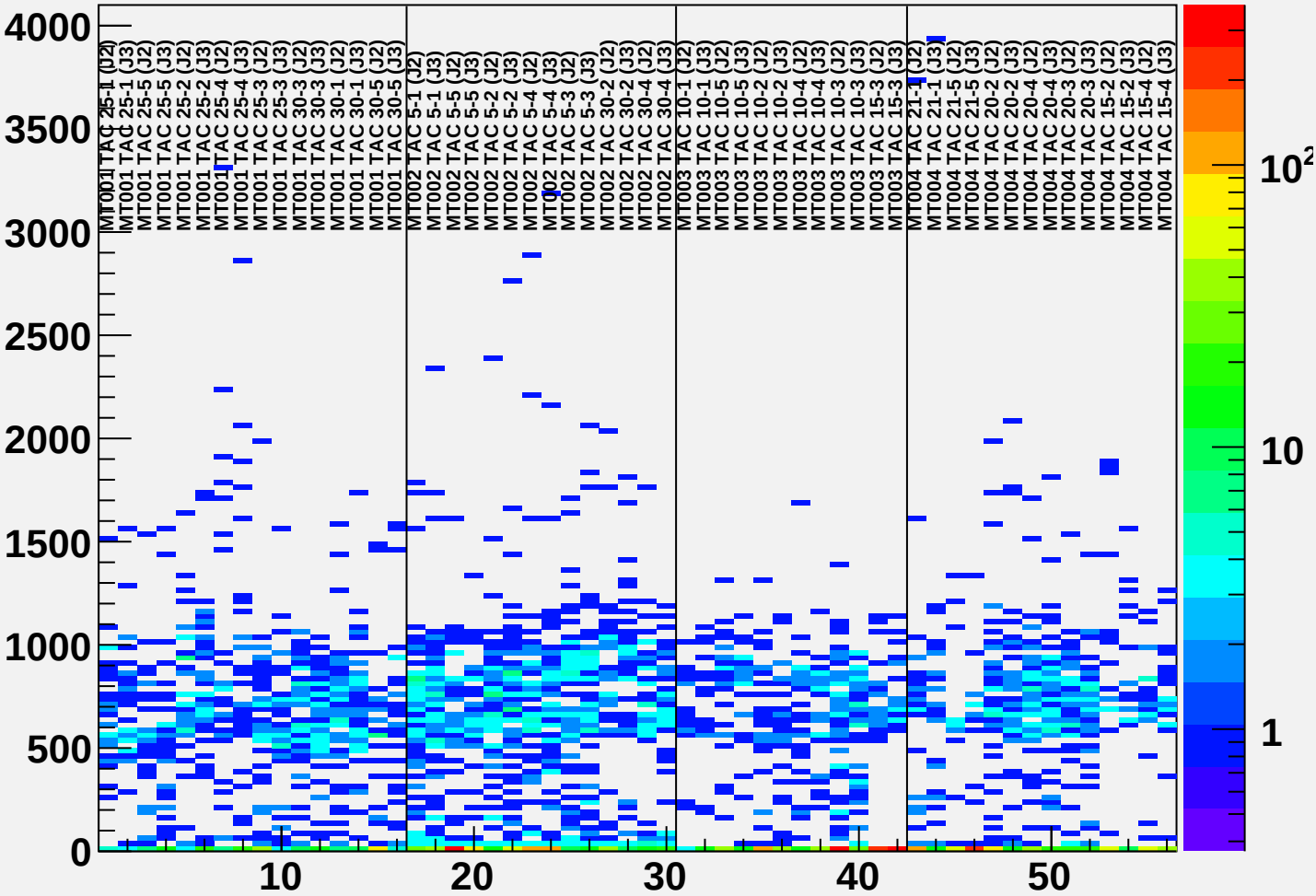

MTD trays not read out (bunchid not found)
No read out errors in 10144 events


MTD Hits by Tray

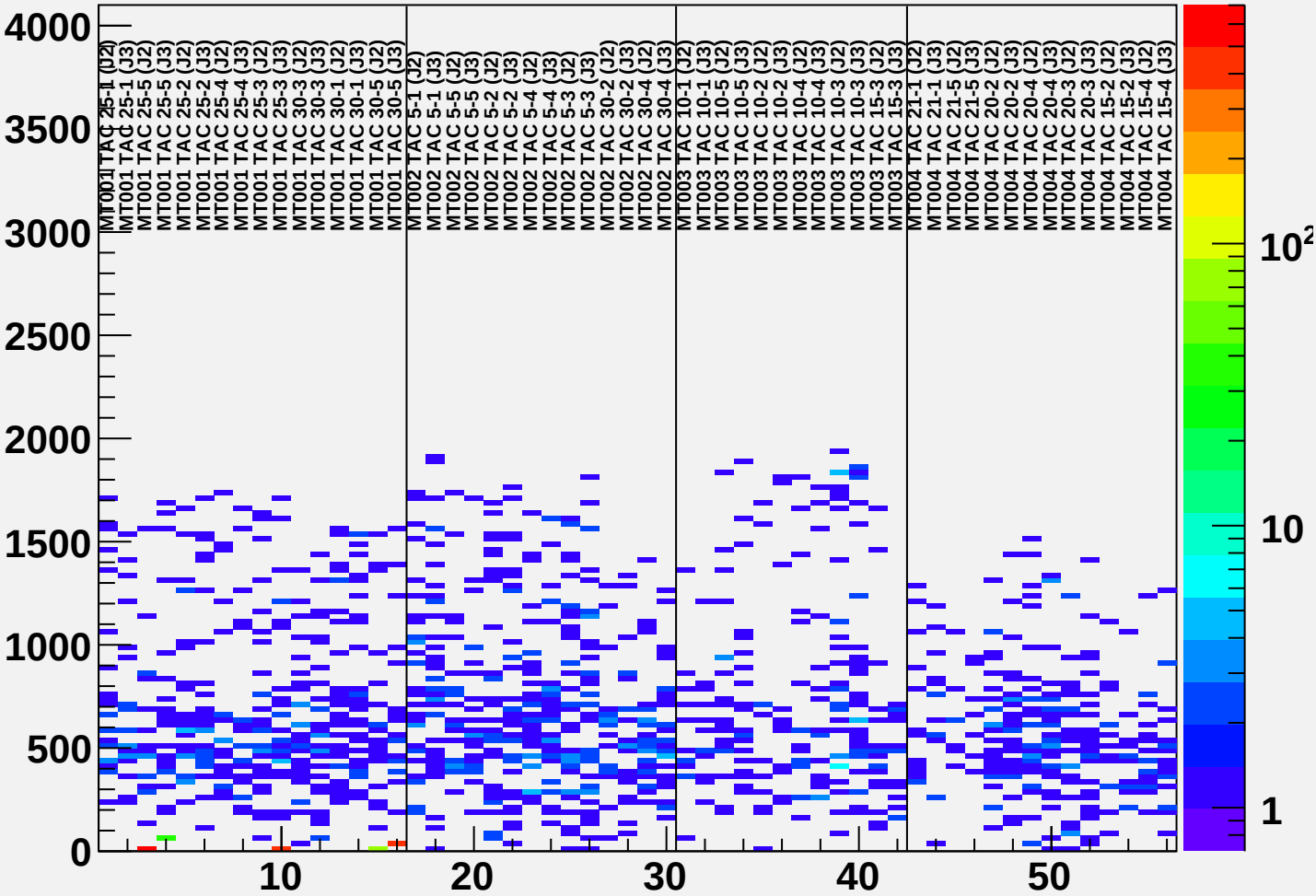
MTD strips vs BL

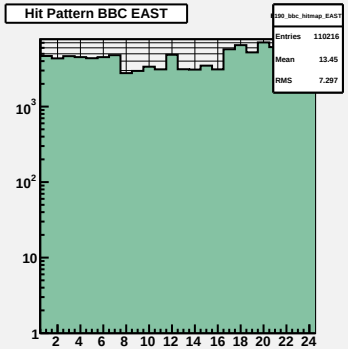


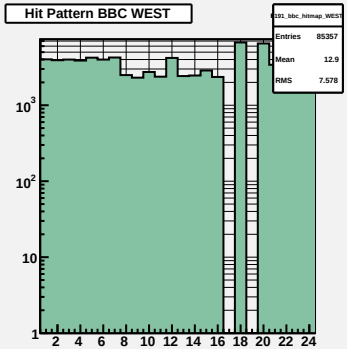
MTD_Trig2D_adc

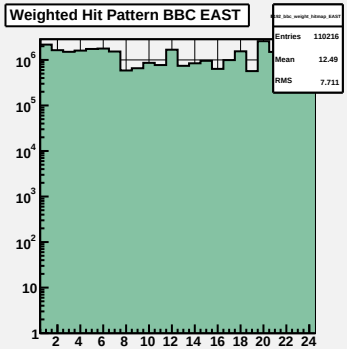


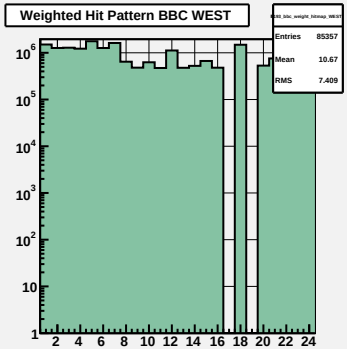
MTD_Trig2D_tac

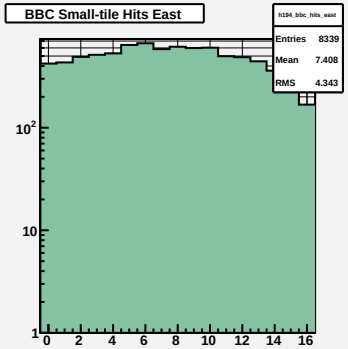


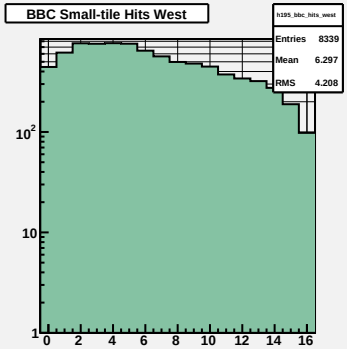

Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 110216
Mean 13.45
RMS 7.297

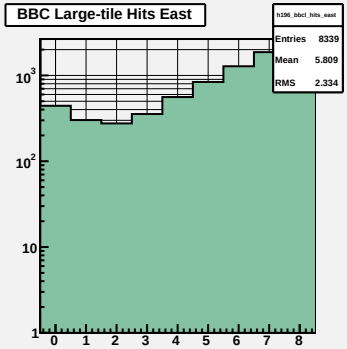

Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 85357
Mean 12.9
RMS 7.578

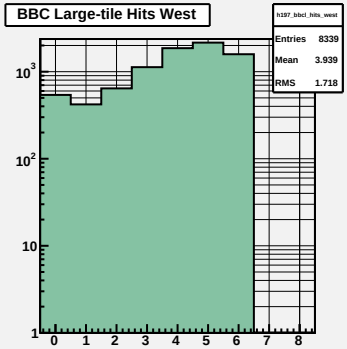

Weighted Hit Pattern BBC EAST
h192_bbc_weight_hitmap_EAST
Entries 110216
Mean 12.49
RMS 7.711

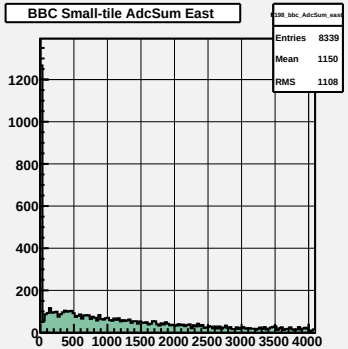

Weighted Hit Pattern BBC WEST
h193_bbc_weight_hitmap_WEST
Entries 85357
Mean 10.67
RMS 7.409

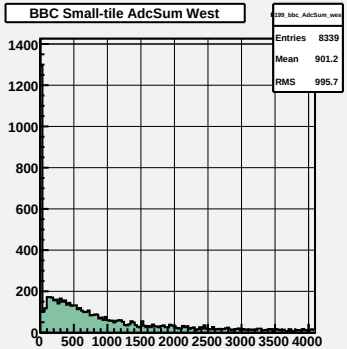

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 8339
Mean 7.408
RMS 4.343

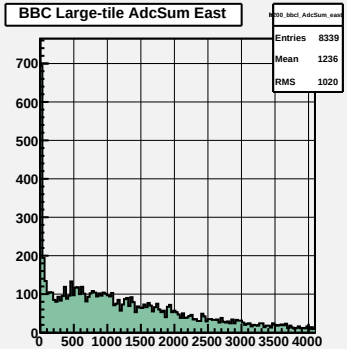

BBC Small-tile Hits West
h195_bbc_hits_west
Entries 8339
Mean 6.297
RMS 4.208

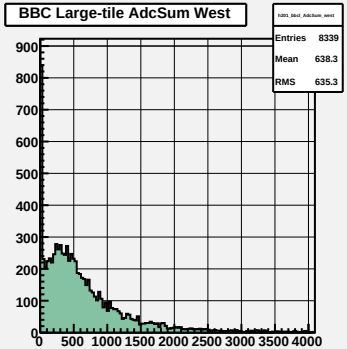

BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 8339
Mean 5.809
RMS 2.334

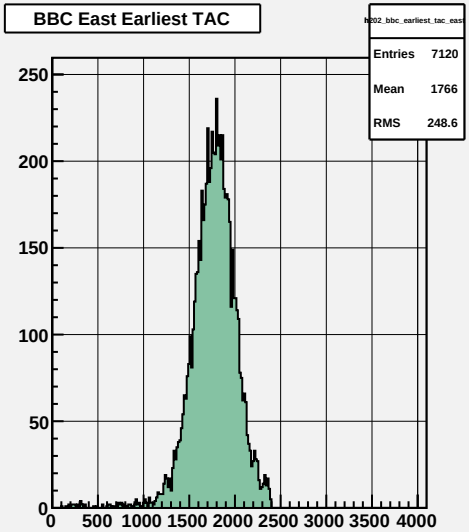

BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 8339
Mean 3.939
RMS 1.718

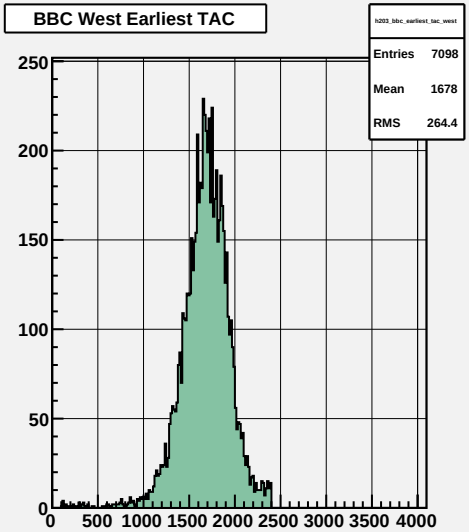

BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 8339
Mean 1150
RMS 1108

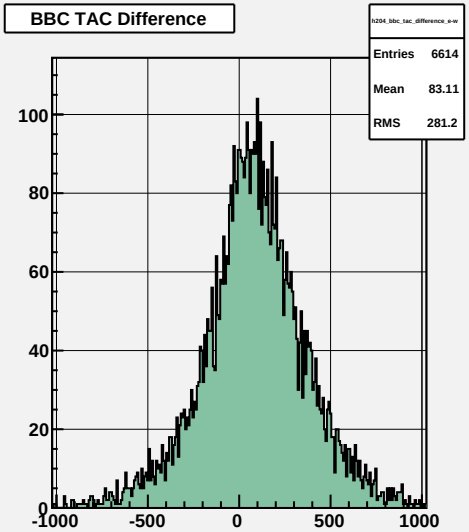

BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 8339
Mean 901.2
RMS 995.7

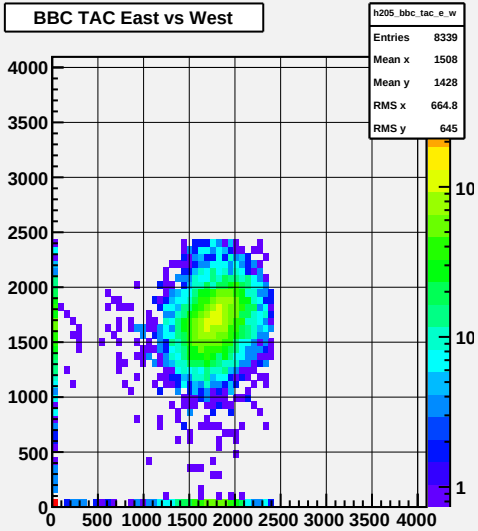

BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 8339
Mean 1236
RMS 1020

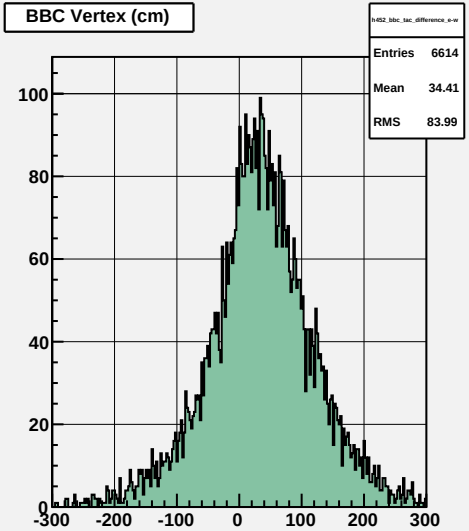

BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 8339
Mean 638.3
RMS 635.3

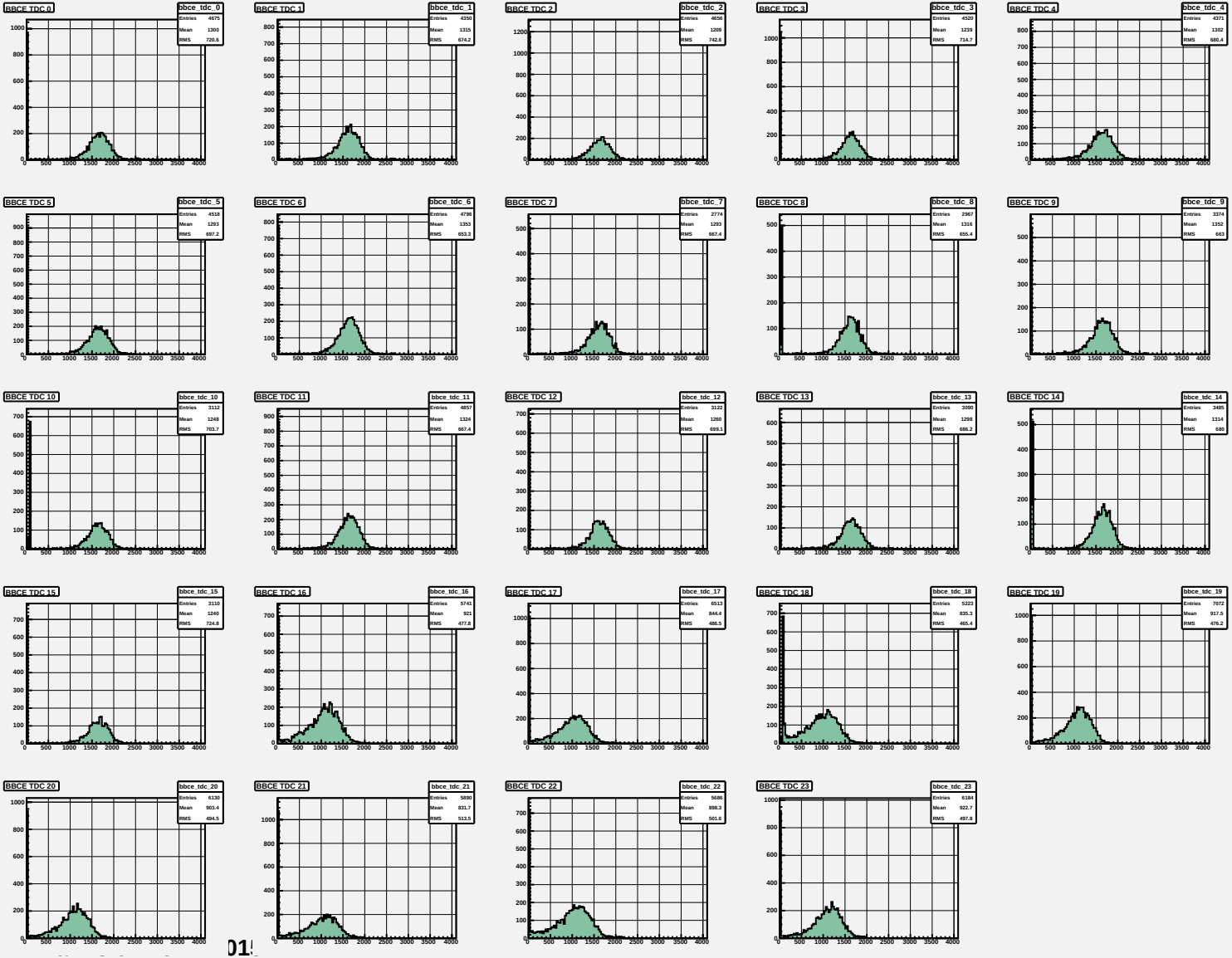

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 7120
Mean 1766
RMS 248.6

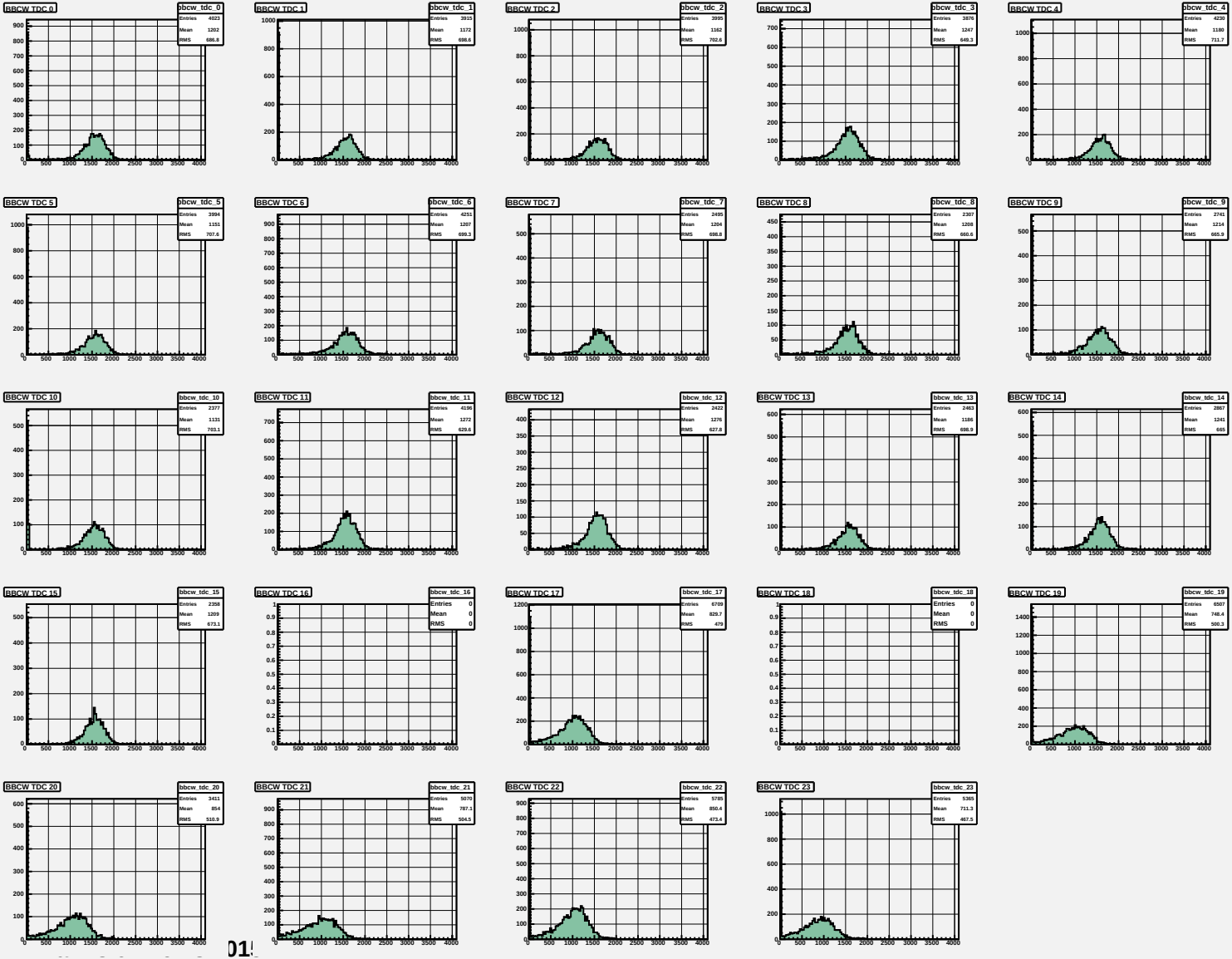

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 7098
Mean 1678
RMS 264.4

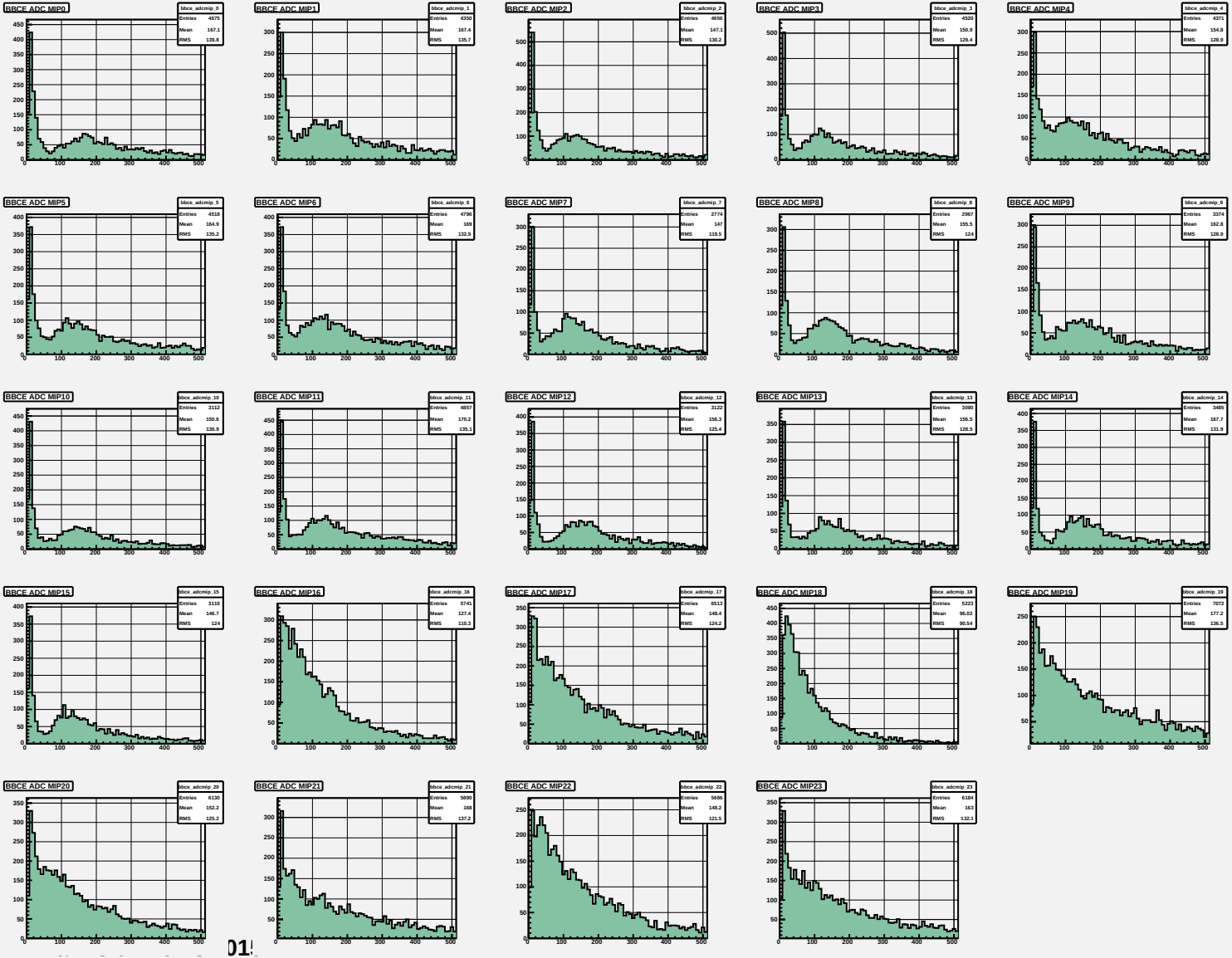

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 6614
Mean 83.11
RMS 281.2

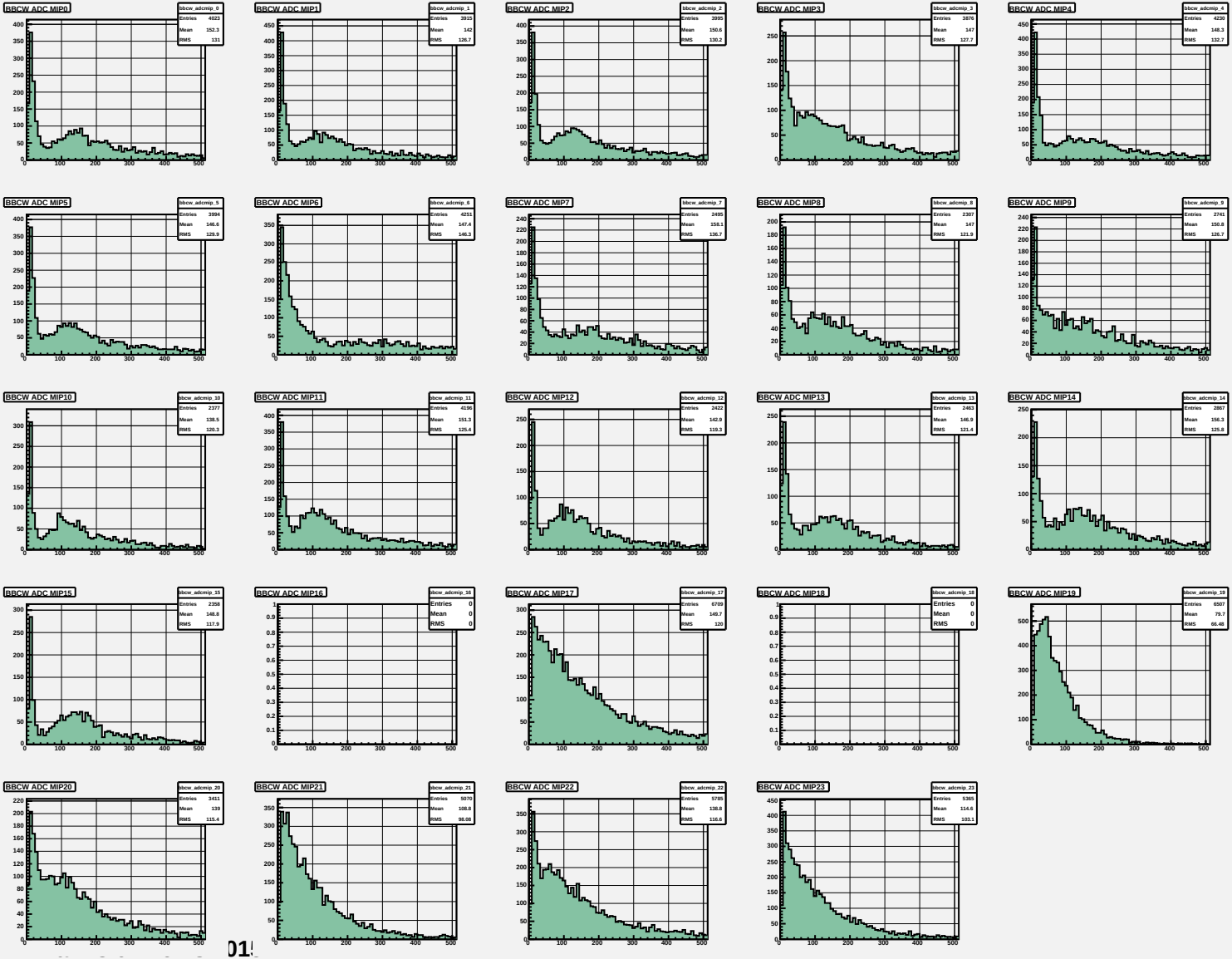

BBC TAC East vs West
h205_bbc_tac_e_w
Entries 8339
Mean x 1508
Mean y 1428
RMS x 664.8
RMS y 645

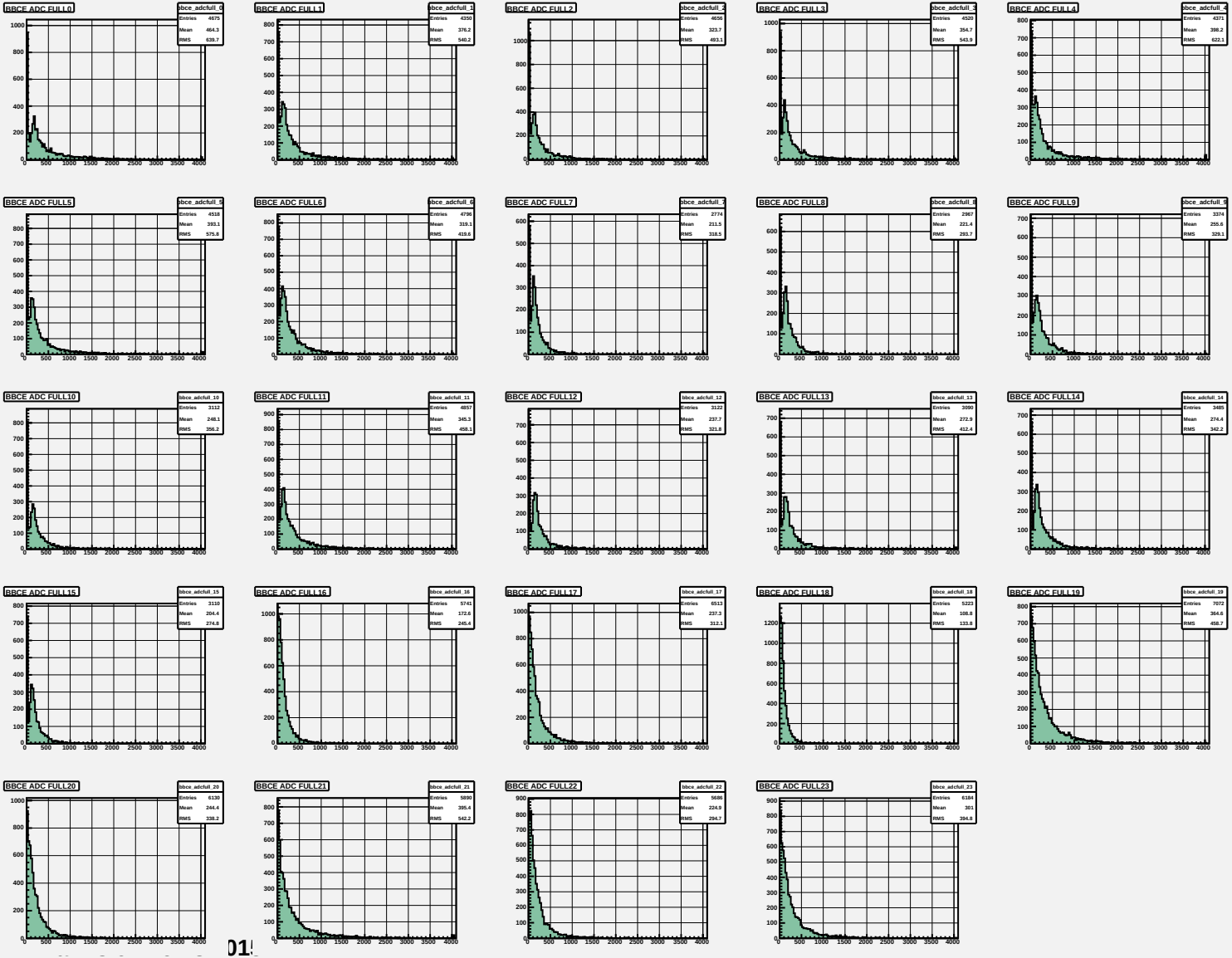

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 6614
Mean 34.41
RMS 83.99

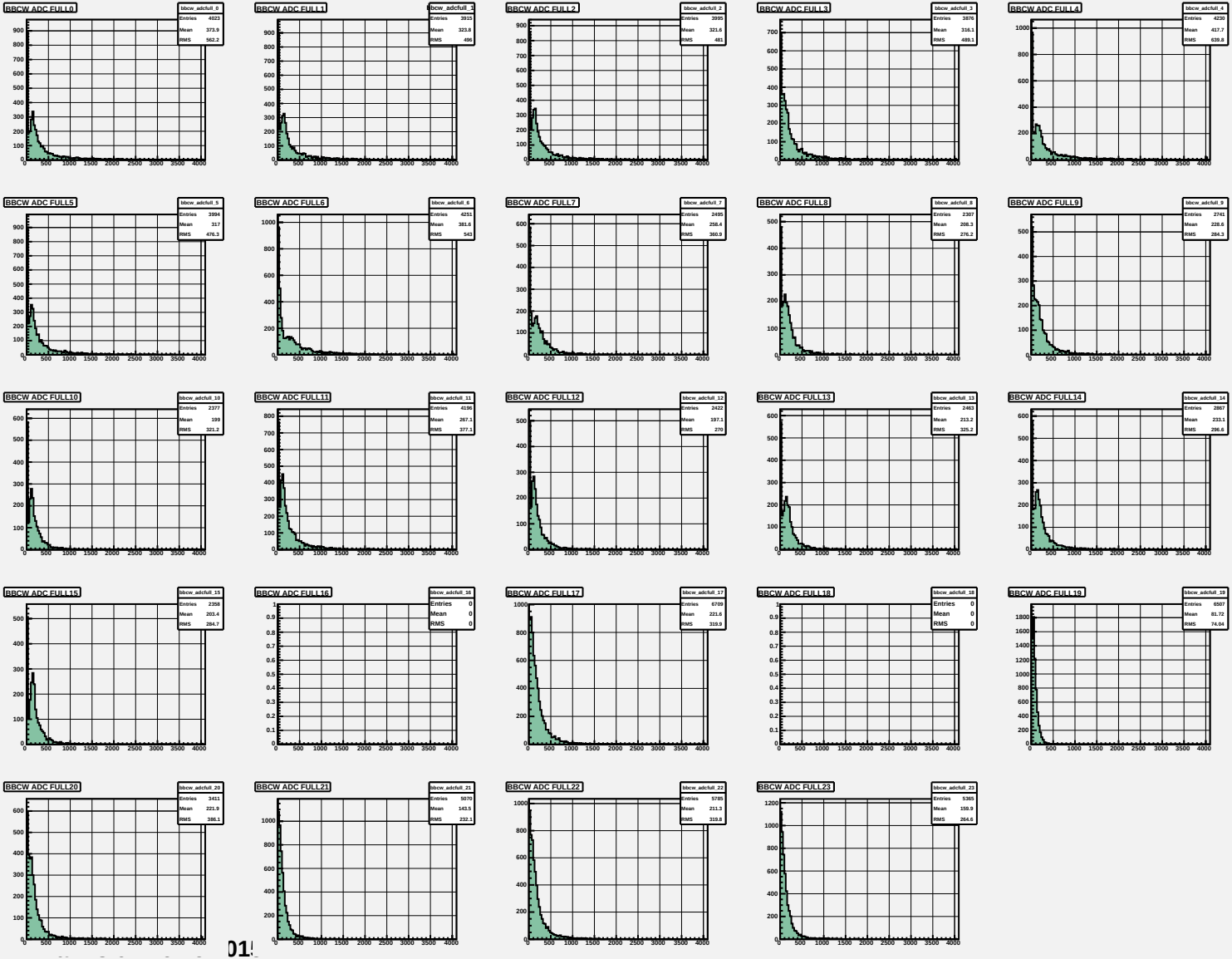

BBCE TDC 0
bbce_tdc_0
Entries 4675
Mean 1300
RMS 720.6
BBCE TDC 1
bbce_tdc_1
Entries 4350
Mean 1315
RMS 674.2
BBCE TDC 2
bbce_tdc_2
Entries 4656
Mean 1209
RMS 742.6
BBCE TDC 3
bbce_tdc_3
Entries 4520
Mean 1239
RMS 714.7
BBCE TDC 4
bbce_tdc_4
Entries 4371
Mean 1302
RMS 680.4
BBCE TDC 5
bbce_tdc_5
Entries 4518
Mean 1293
RMS 697.2
BBCE TDC 6
bbce_tdc_6
Entries 4796
Mean 1353
RMS 653.3
BBCE TDC 7
bbce_tdc_7
Entries 2774
Mean 1293
RMS 667.4
BBCE TDC 8
bbce_tdc_8
Entries 2967
Mean 1316
RMS 655.4
BBCE TDC 9
bbce_tdc_9
Entries 3374
Mean 1352
RMS 663
BBCE TDC 10
bbce_tdc_10
Entries 3112
Mean 1248
RMS 703.7
BBCE TDC 11
bbce_tdc_11
Entries 4857
Mean 1324
RMS 667.4
BBCE TDC 12
bbce_tdc_12
Entries 3122
Mean 1260
RMS 699.1
BBCE TDC 13
bbce_tdc_13
Entries 3090
Mean 1298
RMS 686.2
BBCE TDC 14
bbce_tdc_14
Entries 3485
Mean 1314
RMS 680
BBCE TDC 15
bbce_tdc_15
Entries 3110
Mean 1240
RMS 724.8
BBCE TDC 16
bbce_tdc_16
Entries 5741
Mean 921
RMS 477.8
BBCE TDC 17
bbce_tdc_17
Entries 6513
Mean 844.4
RMS 486.5
BBCE TDC 18
bbce_tdc_18
Entries 5223
Mean 835.3
RMS 465.4
BBCE TDC 19
bbce_tdc_19
Entries 7072
Mean 917.5
RMS 476.2
BBCE TDC 20
bbce_tdc_20
Entries 6130
Mean 903.4
RMS 494.5
BBCE TDC 21
bbce_tdc_21
Entries 5890
Mean 831.7
RMS 513.5
BBCE TDC 22
bbce_tdc_22
Entries 5686
Mean 898.3
RMS 501.6
BBCE TDC 23
bbce_tdc_23
Entries 6184
Mean 922.7
RMS 497.8

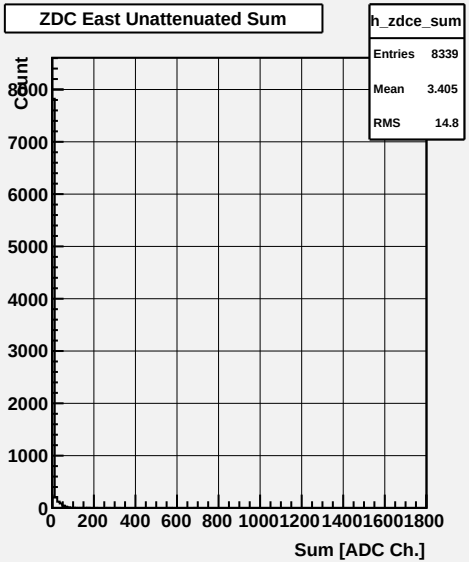

BBCW TDC 0
bbcw_tdc_0
Entries 4023
Mean 1202
RMS 686.8
BBCW TDC 1
bbcw_tdc_1
Entries 3915
Mean 1172
RMS 698.6
BBCW TDC 2
bbcw_tdc_2
Entries 3995
Mean 1162
RMS 702.6
BBCW TDC 3
bbcw_tdc_3
Entries 3876
Mean 1247
RMS 649.3
BBCW TDC 4
bbcw_tdc_4
Entries 4230
Mean 1180
RMS 711.7
BBCW TDC 5
bbcw_tdc_5
Entries 3994
Mean 1151
RMS 707.6
BBCW TDC 6
bbcw_tdc_6
Entries 4251
Mean 1207
RMS 699.3
BBCW TDC 7
bbcw_tdc_7
Entries 2495
Mean 1204
RMS 698.8
BBCW TDC 8
bbcw_tdc_8
Entries 2307
Mean 1208
RMS 660.6
BBCW TDC 9
bbcw_tdc_9
Entries 2741
Mean 1214
RMS 665.9
BBCW TDC 10
bbcw_tdc_10
Entries 2377
Mean 1131
RMS 703.1
BBCW TDC 11
bbcw_tdc_11
Entries 4196
Mean 1272
RMS 629.6
BBCW TDC 12
bbcw_tdc_12
Entries 2422
Mean 1276
RMS 627.8
BBCW TDC 13
bbcw_tdc_13
Entries 2463
Mean 1186
RMS 696.9
BBCW TDC 14
bbcw_tdc_14
Entries 2867
Mean 1241
RMS 665
BBCW TDC 15
bbcw_tdc_15
Entries 2358
Mean 1209
RMS 673.1
BBCW TDC 16
bbcw_tdc_16
Entries 0
Mean 0
RMS 0
BBCW TDC 17
bbcw_tdc_17
Entries 6709
Mean 829.7
RMS 479
BBCW TDC 18
bbcw_tdc_18
Entries 0
Mean 0
RMS 0
BBCW TDC 19
bbcw_tdc_19
Entries 6507
Mean 748.4
RMS 500.3
BBCW TDC 20
bbcw_tdc_20
Entries 3411
Mean 854
RMS 510.9
BBCW TDC 21
bbcw_tdc_21
Entries 5070
Mean 787.1
RMS 504.5
BBCW TDC 22
bbcw_tdc_22
Entries 5785
Mean 850.4
RMS 473.4
BBCW TDC 23
bbcw_tdc_23
Entries 5365
Mean 711.3
RMS 467.5

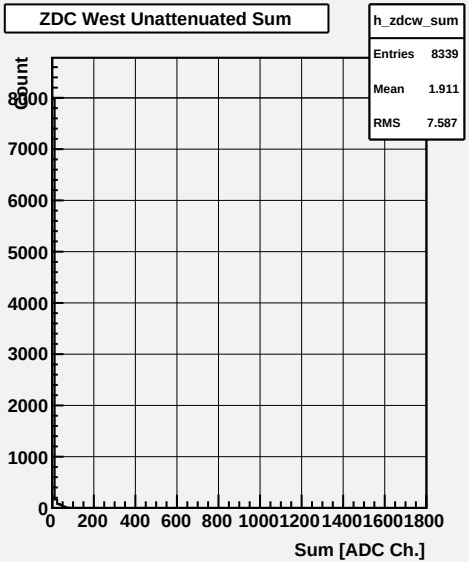

BBCE ADC MIP0
bbce_adcmip_0
Entries 4675
Mean 167.1
RMS 139.8
BBCE ADC MIP1
bbce_adcmip_1
Entries 4350
Mean 167.4
RMS 135.7
BBCE ADC MIP2
bbce_adcmip_2
Entries 4656
Mean 147.1
RMS 130.2
BBCE ADC MIP3
bbce_adcmip_3
Entries 4520
Mean 150.9
RMS 129.4
BBCE ADC MIP4
bbce_adcmip_4
Entries 4371
Mean 154.8
RMS 128.9
BBCE ADC MIP5
bbce_adcmip_5
Entries 4518
Mean 164.9
RMS 135.2
BBCE ADC MIP6
bbce_adcmip_6
Entries 4796
Mean 169
RMS 132.9
BBCE ADC MIP7
bbce_adcmip_7
Entries 2774
Mean 147
RMS 119.5
BBCE ADC MIP8
bbce_adcmip_8
Entries 2967
Mean 155.5
RMS 124
BBCE ADC MIP9
bbce_adcmip_9
Entries 3374
Mean 162.6
RMS 128.9
BBCE ADC MIP10
bbce_adcmip_10
Entries 3112
Mean 150.6
RMS 130.9
BBCE ADC MIP11
bbce_adcmip_11
Entries 4857
Mean 170.2
RMS 135.1
BBCE ADC MIP12
bbce_adcmip_12
Entries 3122
Mean 156.3
RMS 125.4
BBCE ADC MIP13
bbce_adcmip_13
Entries 3090
Mean 156.5
RMS 128.5
BBCE ADC MIP14
bbce_adcmip_14
Entries 3485
Mean 167.7
RMS 131.9
BBCE ADC MIP15
bbce_adcmip_15
Entries 3110
Mean 146.7
RMS 124
BBCE ADC MIP16
bbce_adcmip_16
Entries 5741
Mean 127.4
RMS 110.3
BBCE ADC MIP17
bbce_adcmip_17
Entries 6513
Mean 148.4
RMS 124.2
BBCE ADC MIP18
bbce_adcmip_18
Entries 5223
Mean 96.02
RMS 90.54
BBCE ADC MIP19
bbce_adcmip_19
Entries 7072
Mean 177.2
RMS 136.5
BBCE ADC MIP20
bbce_adcmip_20
Entries 6130
Mean 152.2
RMS 125.2
BBCE ADC MIP21
bbce_adcmip_21
Entries 5890
Mean 168
RMS 137.2
BBCE ADC MIP22
bbce_adcmip_22
Entries 5686
Mean 148.2
RMS 121.5
BBCE ADC MIP23
bbce_adcmip_23
Entries 6184
Mean 163
RMS 132.1

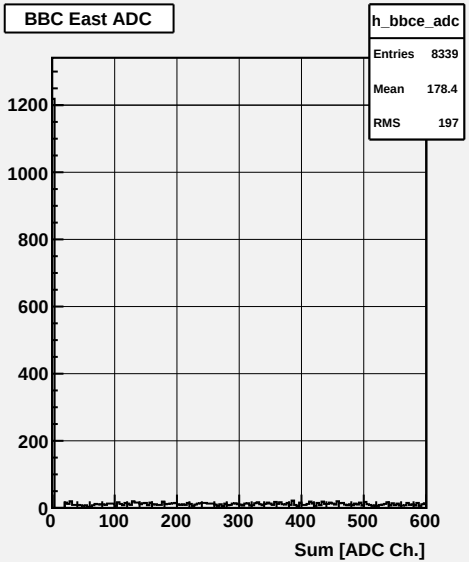

BBCW ADC MIP0
bbcw_adcmip_0
Entries 4023
Mean 152.3
RMS 131
BBCW ADC MIP1
bbcw_adcmip_1
Entries 3915
Mean 142
RMS 126.7
BBCW ADC MIP2
bbcw_adcmip_2
Entries 3995
Mean 150.6
RMS 130.2
BBCW ADC MIP3
bbcw_adcmip_3
Entries 3876
Mean 147
RMS 127.7
BBCW ADC MIP4
bbcw_adcmip_4
Entries 4230
Mean 148.3
RMS 132.7
BBCW ADC MIP5
bbcw_adcmip_5
Entries 3994
Mean 146.6
RMS 129.9
BBCW ADC MIP6
bbcw_adcmip_6
Entries 4251
Mean 147.4
RMS 146.3
BBCW ADC MIP7
bbcw_adcmip_7
Entries 2495
Mean 158.1
RMS 136.7
BBCW ADC MIP8
bbcw_adcmip_8
Entries 2307
Mean 147
RMS 121.9
BBCW ADC MIP9
bbcw_adcmip_9
Entries 2741
Mean 150.6
RMS 126.7
BBCW ADC MIP10
bbcw_adcmip_10
Entries 2377
Mean 138.5
RMS 120.3
BBCW ADC MIP11
bbcw_adcmip_11
Entries 4196
Mean 151.3
RMS 125.4
BBCW ADC MIP12
bbcw_adcmip_12
Entries 2422
Mean 142.9
RMS 119.3
BBCW ADC MIP13
bbcw_adcmip_13
Entries 2463
Mean 146.9
RMS 121.4
BBCW ADC MIP14
bbcw_adcmip_14
Entries 2867
Mean 156.3
RMS 125.8
BBCW ADC MIP15
bbcw_adcmip_15
Entries 2358
Mean 148.8
RMS 117.9
BBCW ADC MIP16
bbcw_adcmip_16
Entries 0
Mean 0
RMS 0
BBCW ADC MIP17
bbcw_adcmip_17
Entries 6709
Mean 149.7
RMS 120
BBCW ADC MIP18
bbcw_adcmip_18
Entries 0
Mean 0
RMS 0
BBCW ADC MIP19
bbcw_adcmip_19
Entries 6507
Mean 79.7
RMS 66.48
BBCW ADC MIP20
bbcw_adcmip_20
Entries 3411
Mean 139
RMS 115.4
BBCW ADC MIP21
bbcw_adcmip_21
Entries 5070
Mean 108.8
RMS 98.08
BBCW ADC MIP22
bbcw_adcmip_22
Entries 5785
Mean 138.8
RMS 116.6
BBCW ADC MIP23
bbcw_adcmip_23
Entries 5365
Mean 114.6
RMS 103.1

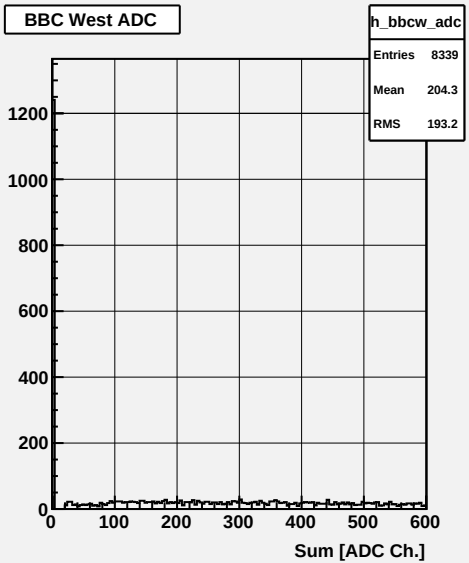

BBCE ADC FULL0
bbce_adcfull_0
Entries 4675
Mean 464.3
RMS 639.7
BBCE ADC FULL1
bbce_adcfull_1
Entries 4350
Mean 376.2
RMS 540.2
BBCE ADC FULL2
bbce_adcfull_2
Entries 4656
Mean 323.7
RMS 493.1
BBCE ADC FULL3
bbce_adcfull_3
Entries 4520
Mean 354.7
RMS 543.9
BBCE ADC FULL4
bbce_adcfull_4
Entries 4371
Mean 398.2
RMS 622.1
BBCE ADC FULL5
bbce_adcfull_5
Entries 4518
Mean 393.1
RMS 575.8
BBCE ADC FULL6
bbce_adcfull_6
Entries 4796
Mean 319.1
RMS 419.6
BBCE ADC FULL7
bbce_adcfull_7
Entries 2774
Mean 211.5
RMS 318.5
BBCE ADC FULL8
bbce_adcfull_8
Entries 2967
Mean 221.4
RMS 293.7
BBCE ADC FULL9
bbce_adcfull_9
Entries 3374
Mean 255.6
RMS 329.1
BBCE ADC FULL10
bbce_adcfull_10
Entries 3112
Mean 248.1
RMS 356.2
BBCE ADC FULL11
bbce_adcfull_11
Entries 4857
Mean 345.3
RMS 458.1
BBCE ADC FULL12
bbce_adcfull_12
Entries 3122
Mean 237.7
RMS 321.8
BBCE ADC FULL13
bbce_adcfull_13
Entries 3090
Mean 272.9
RMS 412.4
BBCE ADC FULL14
bbce_adcfull_14
Entries 3485
Mean 274.4
RMS 342.2
BBCE ADC FULL15
bbce_adcfull_15
Entries 3110
Mean 204.4
RMS 274.8
BBCE ADC FULL16
bbce_adcfull_16
Entries 5741
Mean 172.6
RMS 245.4
BBCE ADC FULL17
bbce_adcfull_17
Entries 6513
Mean 237.3
RMS 312.1
BBCE ADC FULL18
bbce_adcfull_18
Entries 5223
Mean 108.8
RMS 133.8
BBCE ADC FULL19
bbce_adcfull_19
Entries 7072
Mean 364.6
RMS 458.7
BBCE ADC FULL20
bbce_adcfull_20
Entries 6130
Mean 244.4
RMS 338.2
BBCE ADC FULL21
bbce_adcfull_21
Entries 5890
Mean 395.4
RMS 542.2
BBCE ADC FULL22
bbce_adcfull_22
Entries 5686
Mean 224.9
RMS 294.7
BBCE ADC FULL23
bbce_adcfull_23
Entries 6184
Mean 301
RMS 394.8

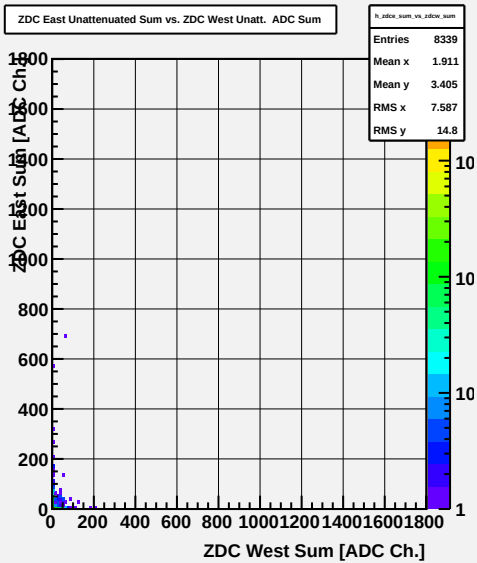

BBCW ADC FULL0
bbcw_adcfull_0
Entries 4023
Mean 373.9
RMS 562.2
BBCW ADC FULL1
bbcw_adcfull_1
Entries 3915
Mean 323.8
RMS 496
BBCW ADC FULL2
bbcw_adcfull_2
Entries 3995
Mean 321.6
RMS 481
BBCW ADC FULL3
bbcw_adcfull_3
Entries 3876
Mean 316.1
RMS 489.1
BBCW ADC FULL4
bbcw_adcfull_4
Entries 4230
Mean 417.7
RMS 639.2
BBCW ADC FULL5
bbcw_adcfull_5
Entries 3994
Mean 317
RMS 476.3
BBCW ADC FULL6
bbcw_adcfull_6
Entries 4251
Mean 381.6
RMS 543
BBCW ADC FULL7
bbcw_adcfull_7
Entries 2495
Mean 258.4
RMS 360.9
BBCW ADC FULL8
bbcw_adcfull_8
Entries 2307
Mean 208.3
RMS 276.2
BBCW ADC FULL9
bbcw_adcfull_9
Entries 2741
Mean 228.6
RMS 284.3
BBCW ADC FULL10
bbcw_adcfull_10
Entries 2377
Mean 199
RMS 321.2
BBCW ADC FULL11
bbcw_adcfull_11
Entries 4196
Mean 267.1
RMS 377.1
BBCW ADC FULL12
bbcw_adcfull_12
Entries 2422
Mean 197.1
RMS 270
BBCW ADC FULL13
bbcw_adcfull_13
Entries 2463
Mean 213.2
RMS 325.2
BBCW ADC FULL14
bbcw_adcfull_14
Entries 2867
Mean 233.1
RMS 296.6
BBCW ADC FULL15
bbcw_adcfull_15
Entries 2358
Mean 203.4
RMS 284.7
BBCW ADC FULL16
bbcw_adcfull_16
Entries 0
Mean 0
RMS 0
BBCW ADC FULL17
bbcw_adcfull_17
Entries 6709
Mean 221.6
RMS 319.9
BBCW ADC FULL18
bbcw_adcfull_18
Entries 0
Mean 0
RMS 0
BBCW ADC FULL19
bbcw_adcfull_19
Entries 6507
Mean 81.72
RMS 74.04
BBCW ADC FULL20
bbcw_adcfull_20
Entries 3411
Mean 221.9
RMS 386.1
BBCW ADC FULL21
bbcw_adcfull_21
Entries 5070
Mean 143.5
RMS 232.1
BBCW ADC FULL22
bbcw_adcfull_22
Entries 5785
Mean 211.3
RMS 319.8
BBCW ADC FULL23
bbcw_adcfull_23
Entries 5365
Mean 159.9
RMS 264.6

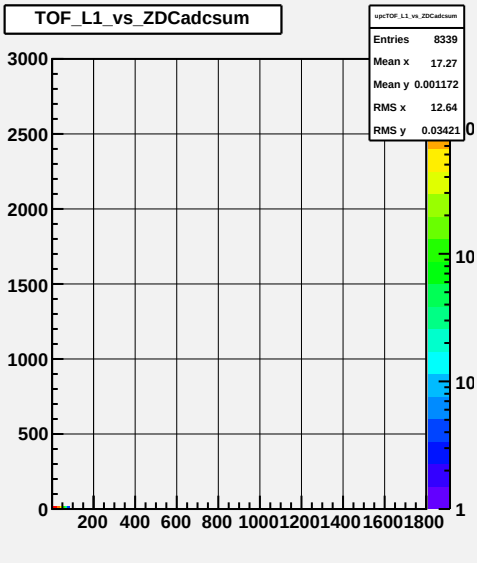

ZDC East Unattenuated Sum
h_zdce_sum
Entries 8339
Mean 3.405
RMS 14.8
Count
Sum [ADC Ch.]

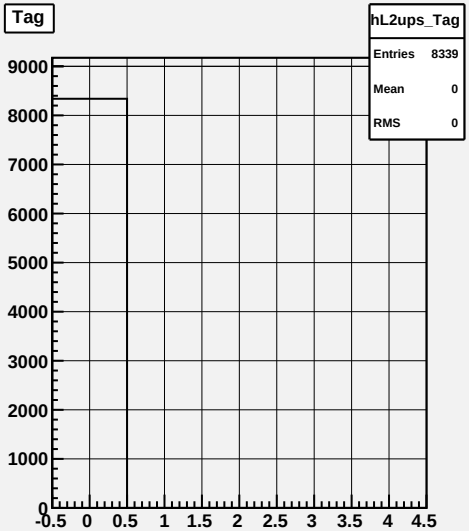

ZDC West Unattenuated Sum
h_zdcw_sum
Entries 8339
Mean 1.911
RMS 7.587
Count
Sum [ADC Ch.]

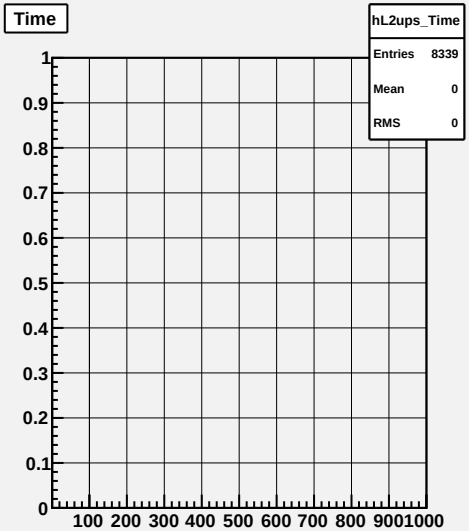

BBC East ADC
h_bbce_adc
Entries 8339
Mean 178.4
RMS 197
Sum [ADC Ch.]

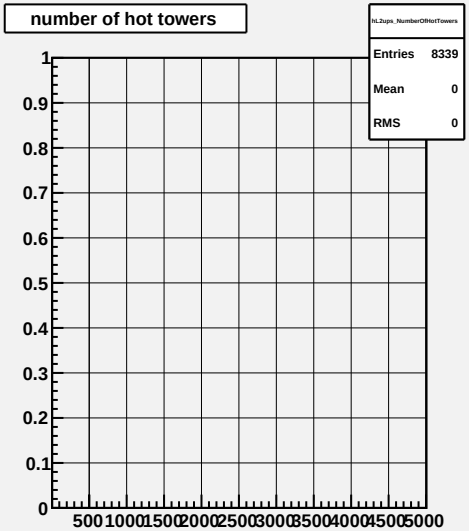

BBC West ADC
h_bbcw_adc
Entries 8339
Mean 204.3
RMS 193.2
Sum [ADC Ch.]

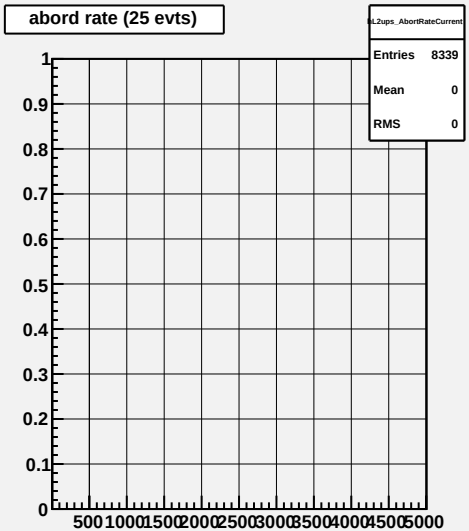

ZDC East Unattenuated Sum vs. ZDC West Unatt. ADC Sum
h_zdce_sum_vs_zdcw_sum
Entries 8339
Mean x 1.911
Mean y 3.405
RMS x 7.587
RMS y 14.8
ZDC East Sum [ADC Ch.]
ZDC West Sum [ADC Ch.]

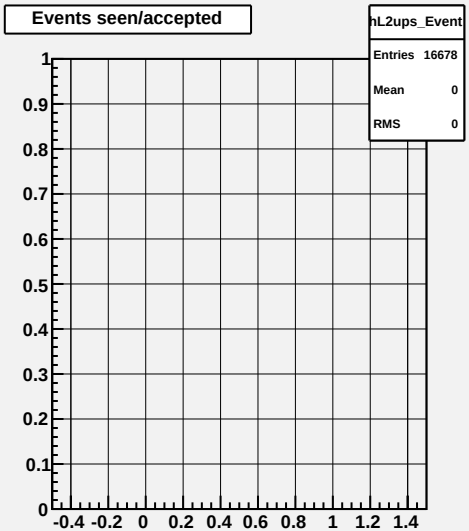

TOF_L1_vs_ZDCadcsum
upcTOF_L1_vs_ZDCadcsum
Entries 8339
Mean x 17.27
Mean y 0.001172
RMS x 12.64
RMS y 0.03421

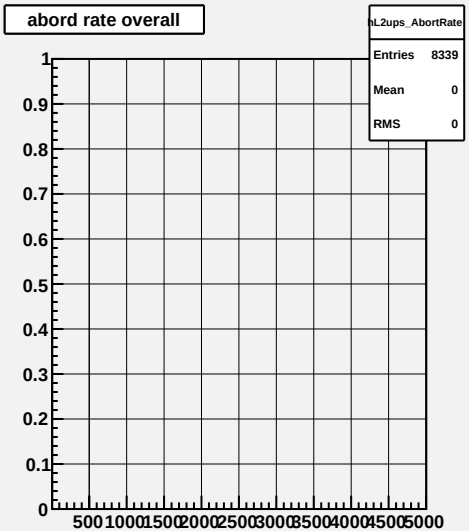

Tag
hL2ups_Tag
Entries 8339
Mean 0
RMS 0
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5

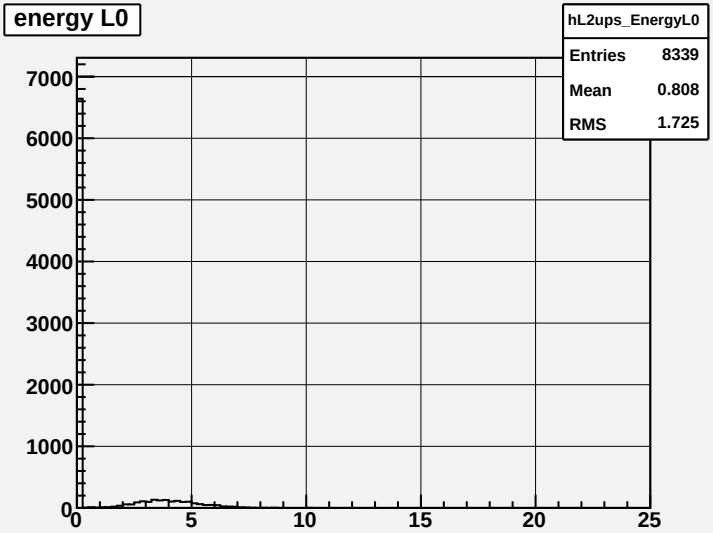

Time
hL2ups_Time
Entries 8339
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100 200 300 400 500 600 700 800 900 1000

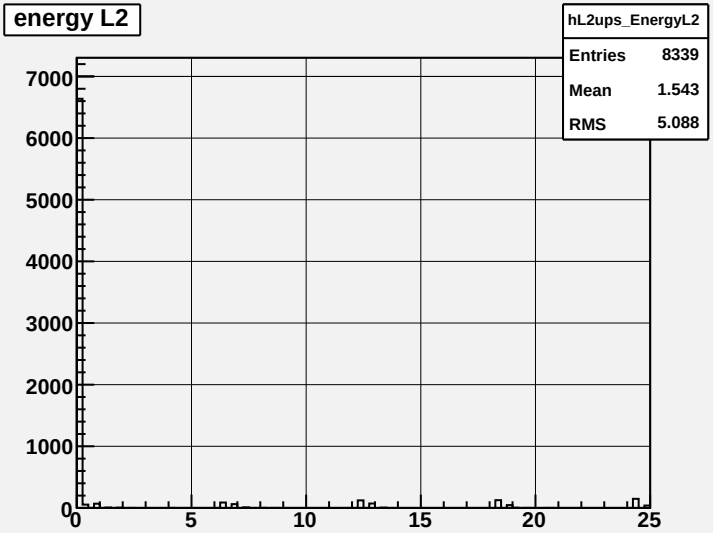

number of hot towers
hL2ups_NumberOfHotTowers
Entries 8339
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

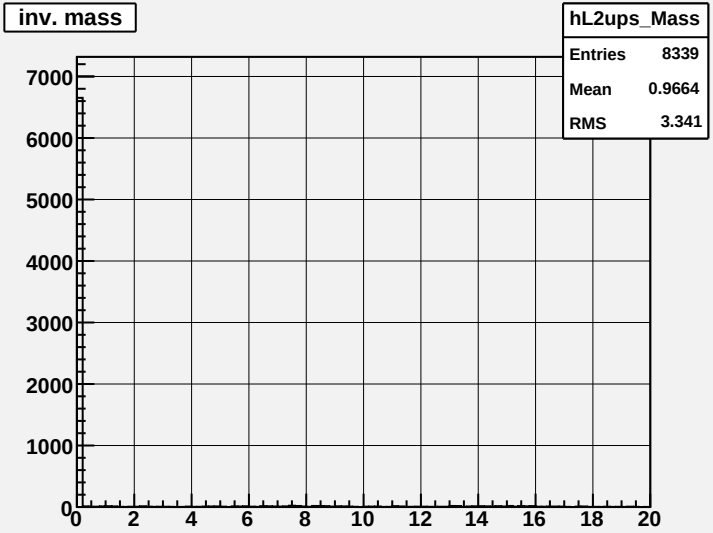

abord rate (25 evts)
hL2ups_AbortRateCurrent
Entries 8339
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

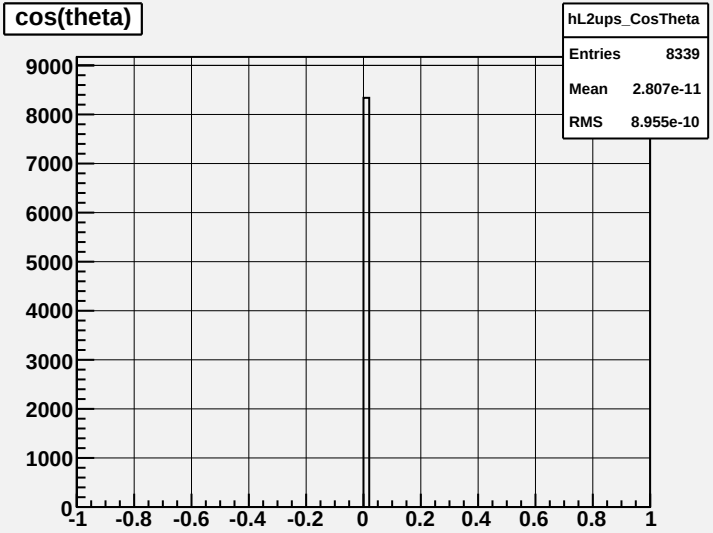

Events seen/accepted
hL2ups_Event
Entries 16678
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-0.4 -0.2 0 0.2 0.4 0.6 0.8 1 1.2 1.4

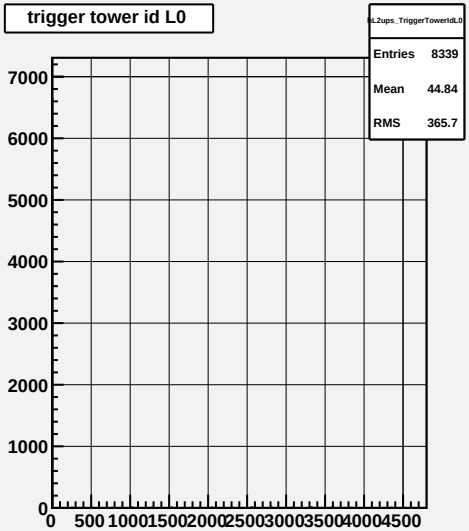

abord rate overall
hL2ups_AbortRate
Entries 8339
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000 4500 5000

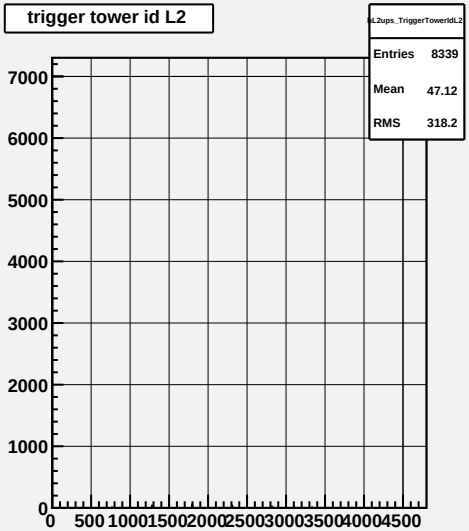

energy L0
hL2ups_EnergyL0
Entries 8339
Mean 0.808
RMS 1.725
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25

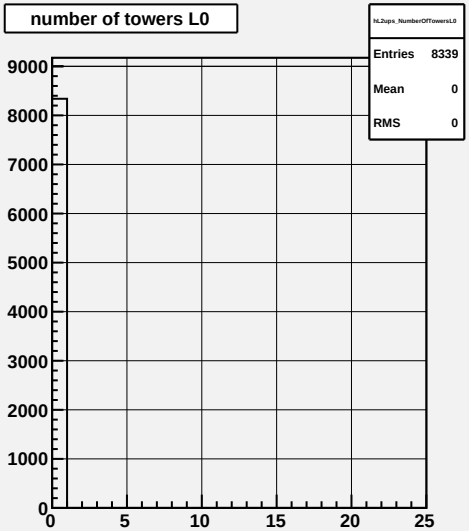

energy L2
hL2ups_EnergyL2
Entries 8339
Mean 1.543
RMS 5.088
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25

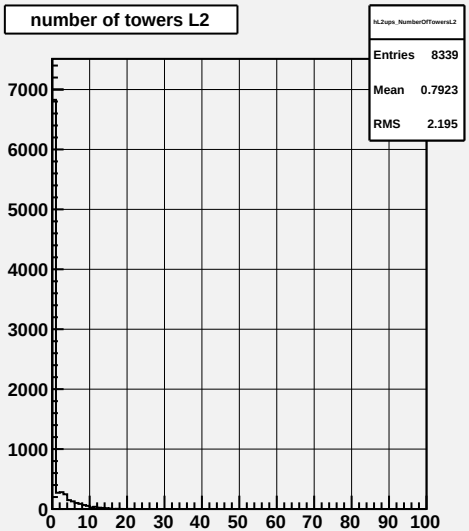

inv. mass
hL2ups_Mass
Entries 8339
Mean 0.9664
RMS 3.341
7000
6000
5000
4000
3000
2000
1000
0
0
2
4
6
8
10
12
14
16
18
20

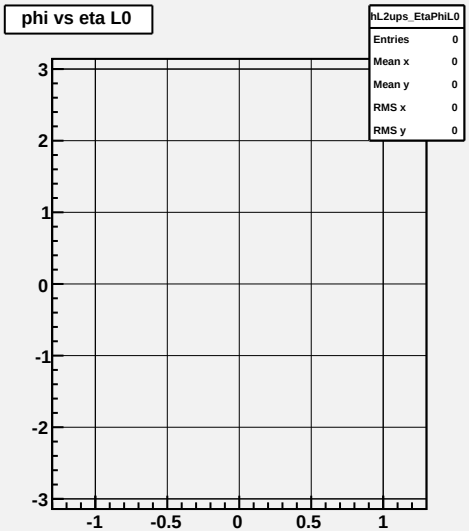

cos(theta)
hL2ups_CosTheta
Entries 8339
Mean 2.807e-11
RMS 8.955e-10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

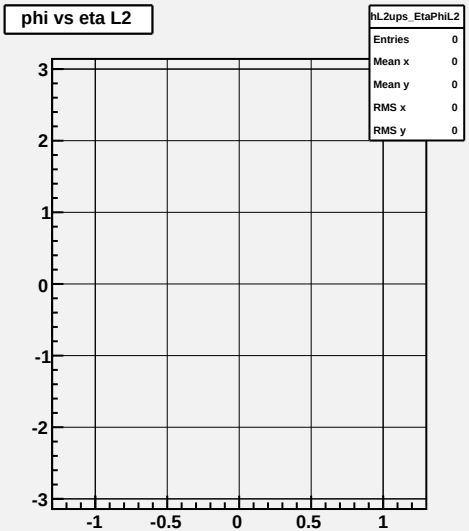

trigger tower id L0
hL2ups_TriggerTowerIdL0
Entries 8339
Mean 44.84
RMS 365.7

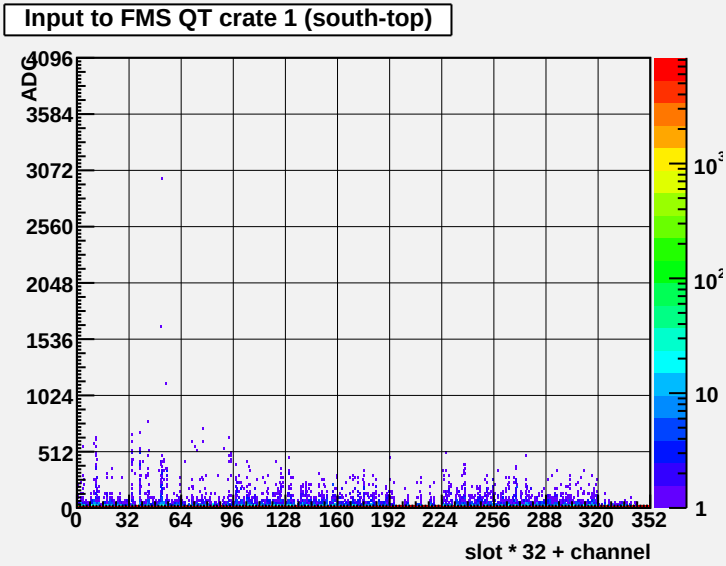

trigger tower id L2
hL2ups_TriggerTowerIdL2
Entries 8339
Mean 47.12
RMS 318.2

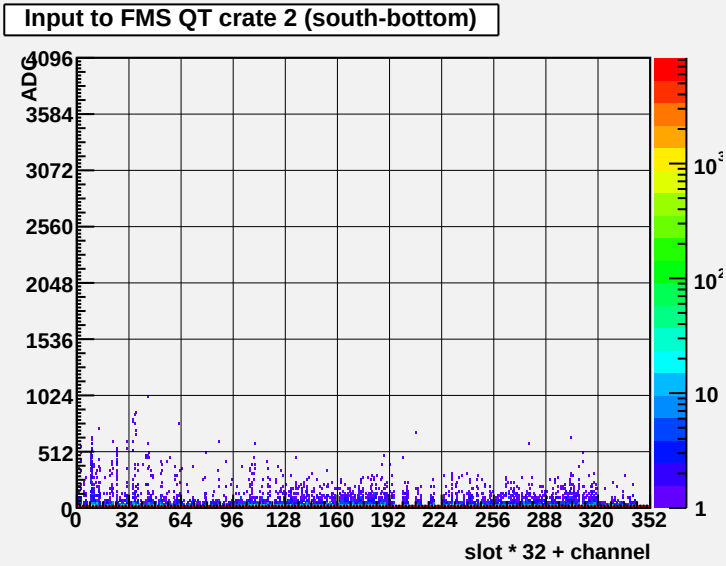

number of towers L0
hL2ups_NumberOfTowersL0
Entries 8339
Mean 0
RMS 0

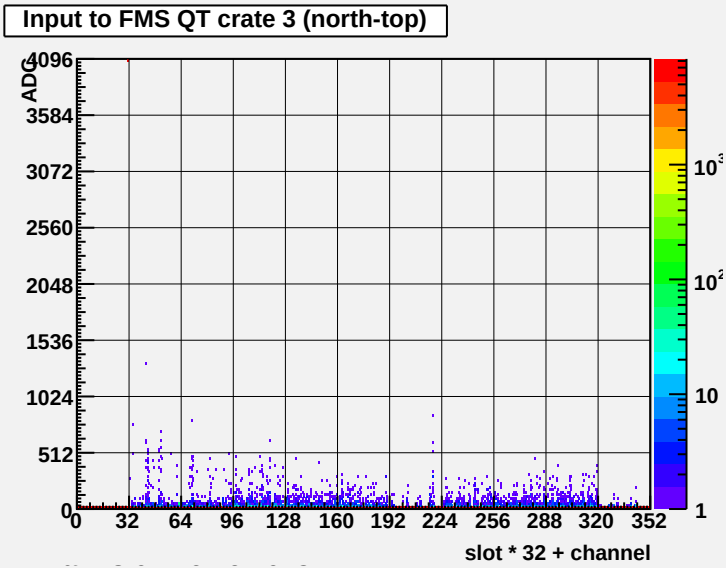

number of towers L2
hL2ups_NumberOfTowersL2
Entries 8339
Mean 0.7923
RMS 2.195

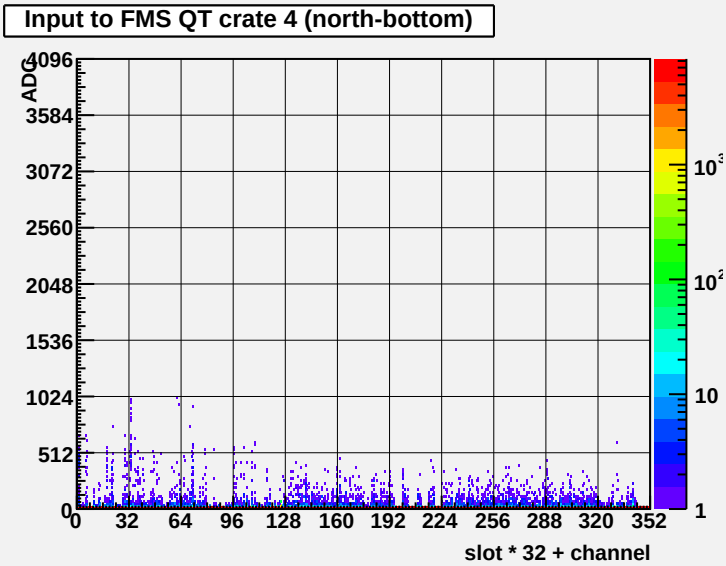

phi vs eta L0
hL2ups_EtaPhiL0
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0

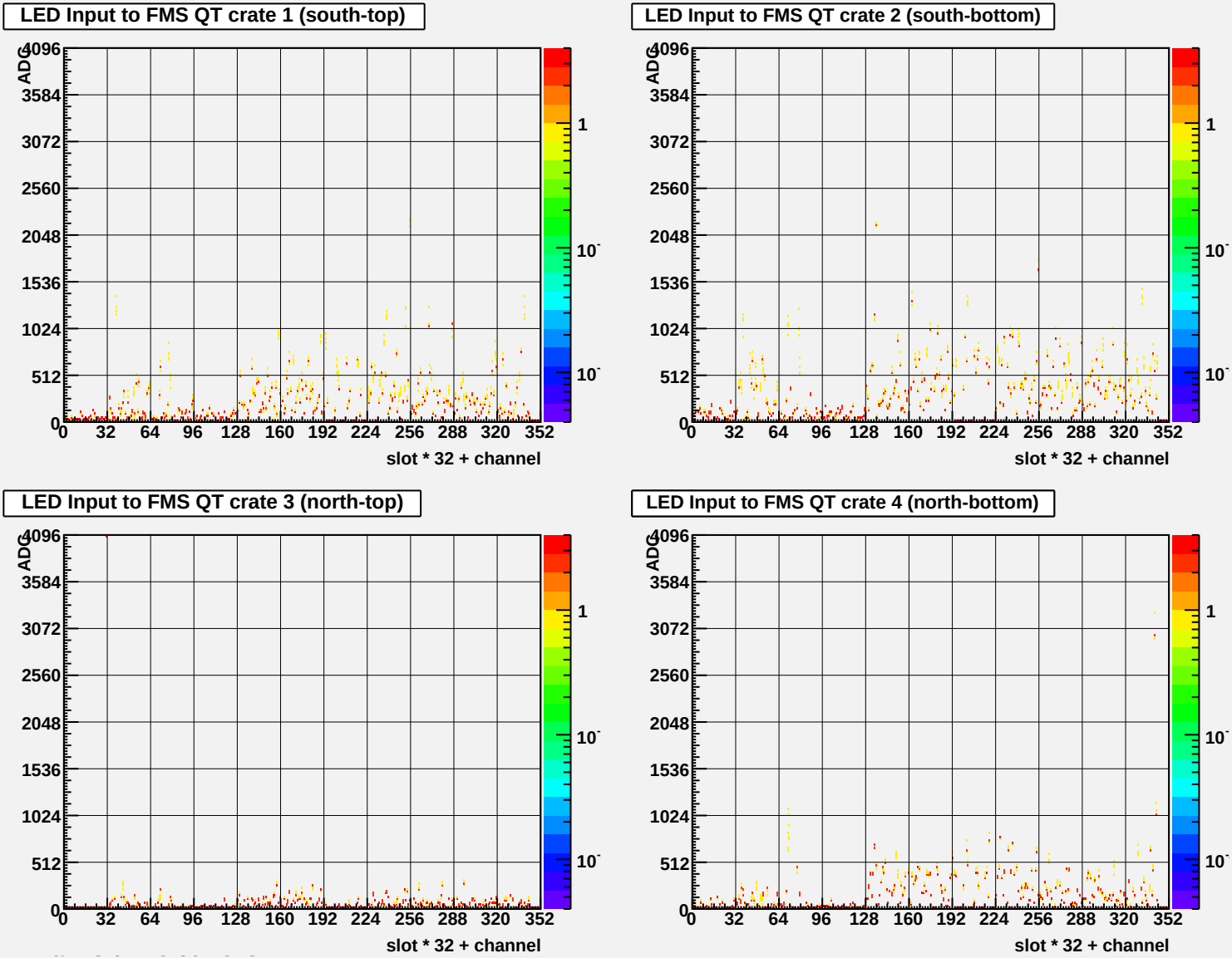

phi vs eta L2
hL2ups_EtaPhiL2
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0


Input to FMS QT crate 1 (south-top)
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

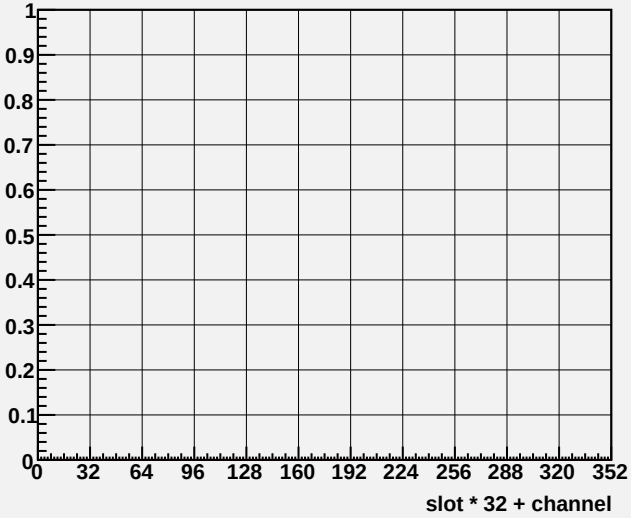

Input to FMS QT crate 2 (south-bottom)
ADC
4096
3584
3072
2560
2048
1536
1024
512
0
0 32 64 96 128 160 192 224 256 288 320 352
slot * 32 + channel
10^3
10^2
10
1


Input to FMS QT crate 3 (north-top)
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

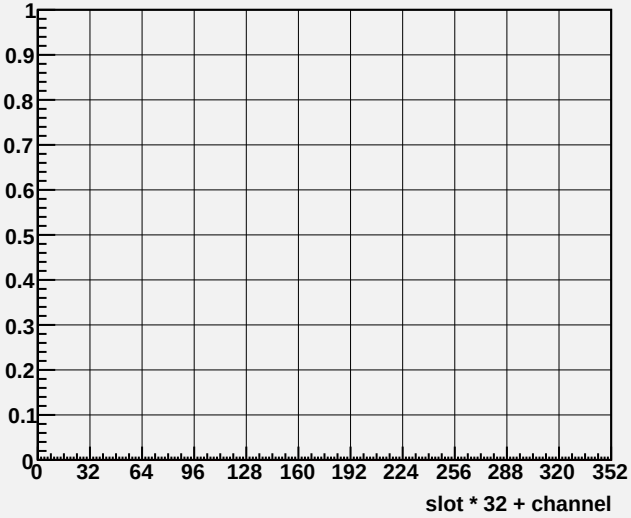

Input to FMS QT crate 4 (north-bottom)
ADC
4096
3584
3072
2560
2048
1536
1024
512
0
0 32 64 96 128 160 192 224 256 288 320 352
slot * 32 + channel
10^3
10^2
10
1


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

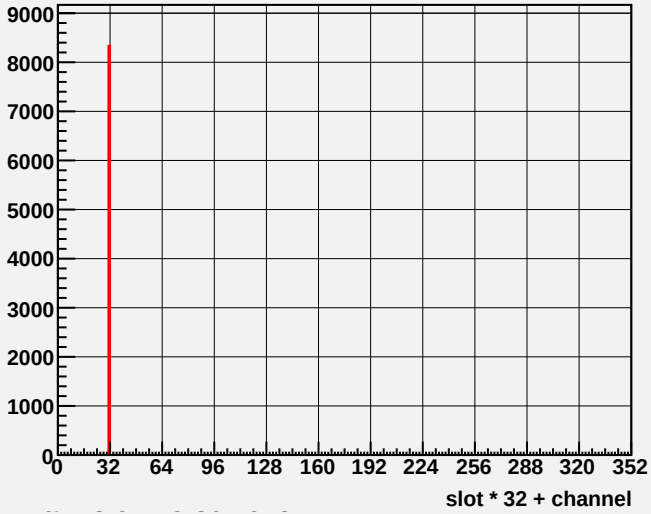
ADC>4094 for QT crate 1 (south-top)



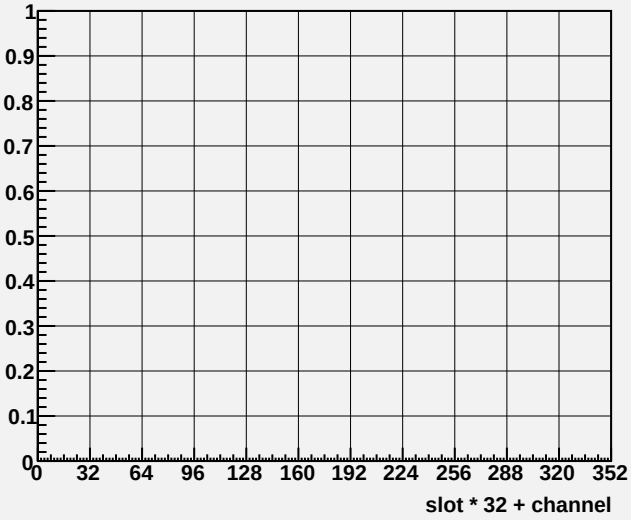
ADC>4094 for QT crate 2 (south-bottom)



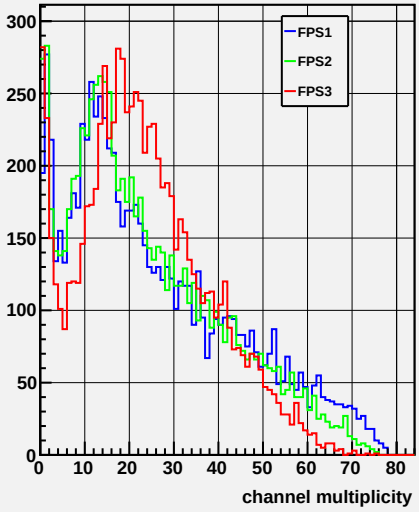
ADC>4094 for QT crate 3 (north-top)



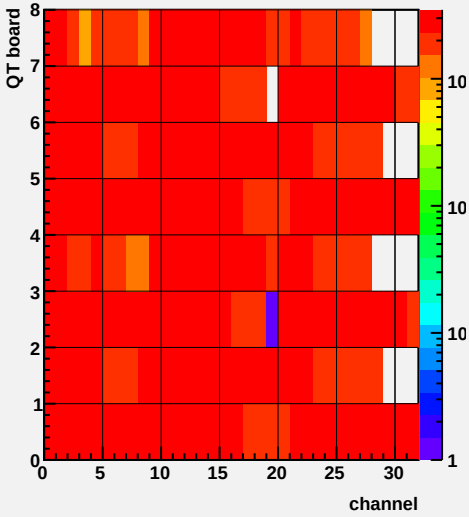
ADC>4094 for QT crate 4 (north-bottom)



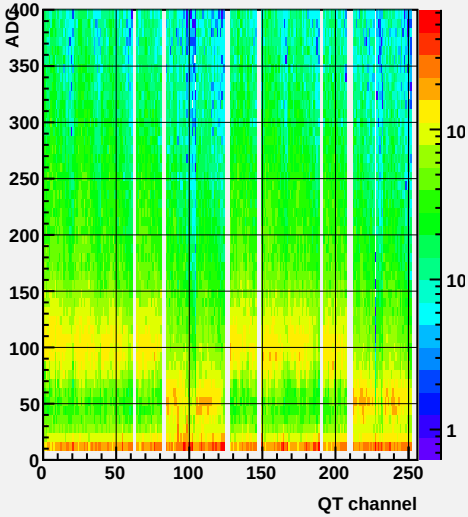
channel multiplicity



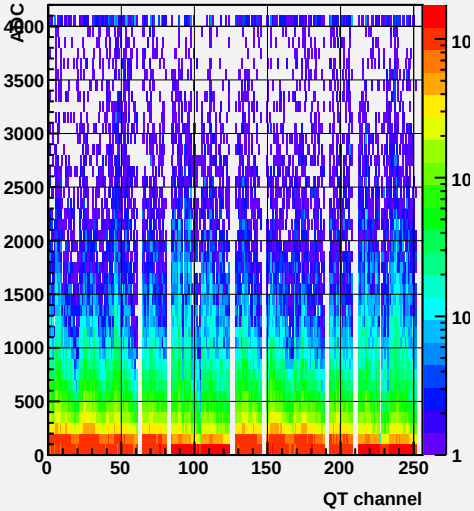
channel vs. rdo



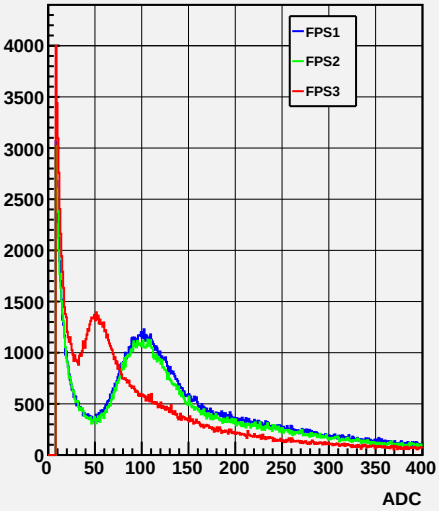
ADC vs. channel



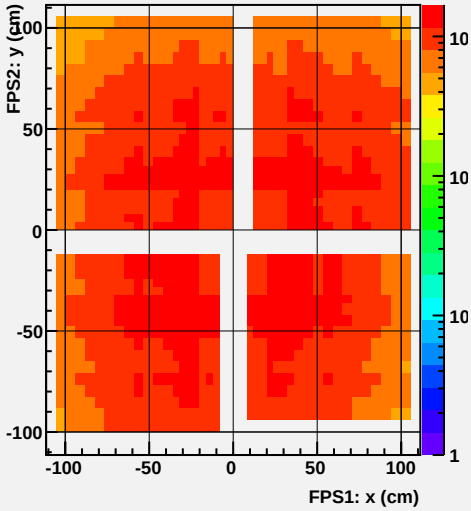
ADC vs. channel

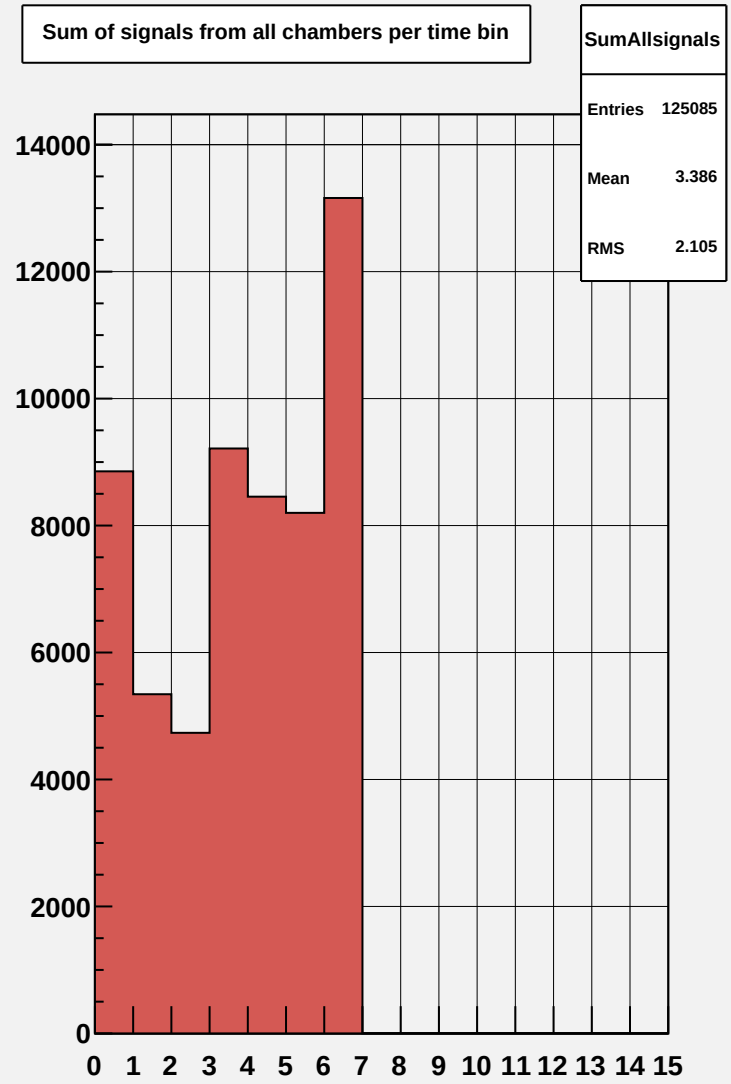


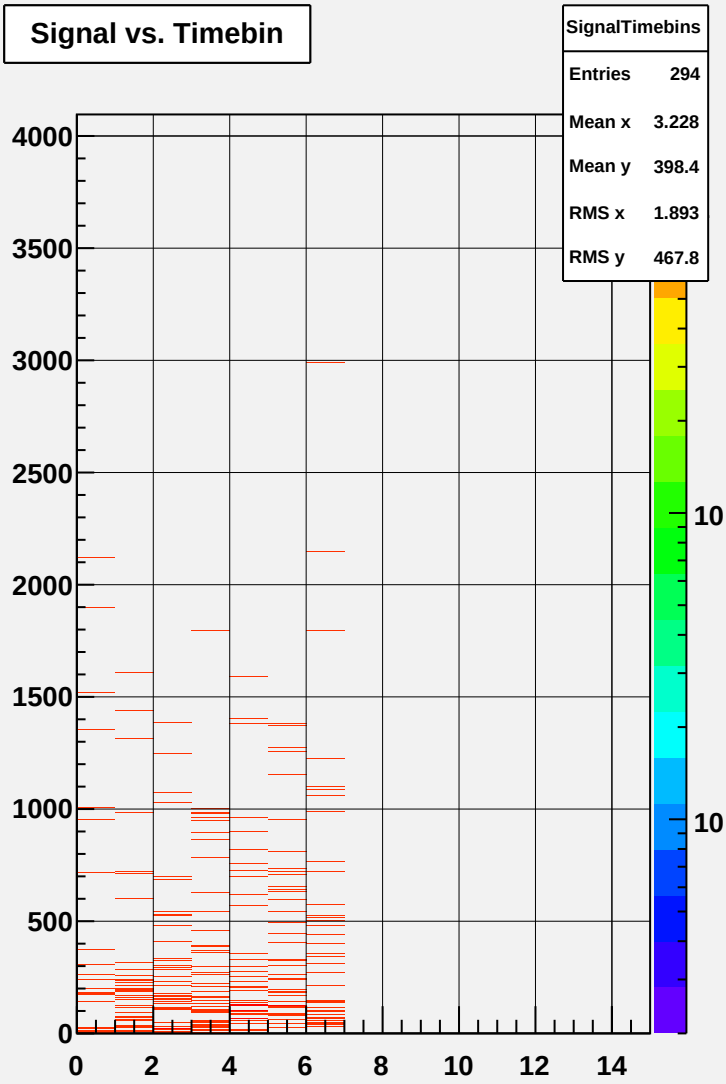
ADC spectra

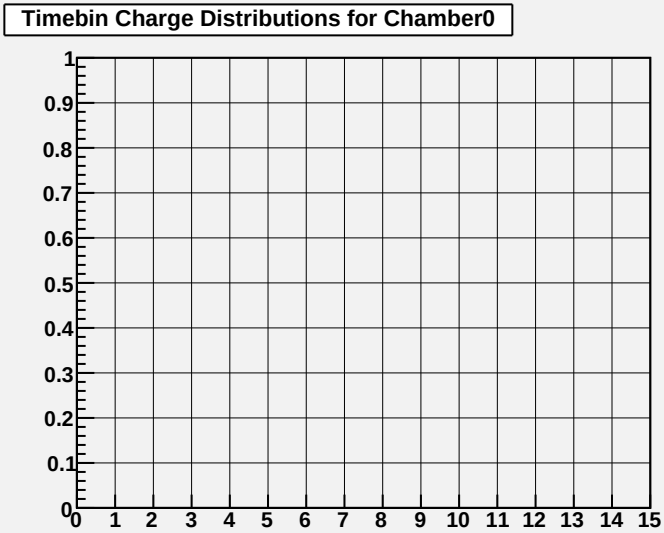


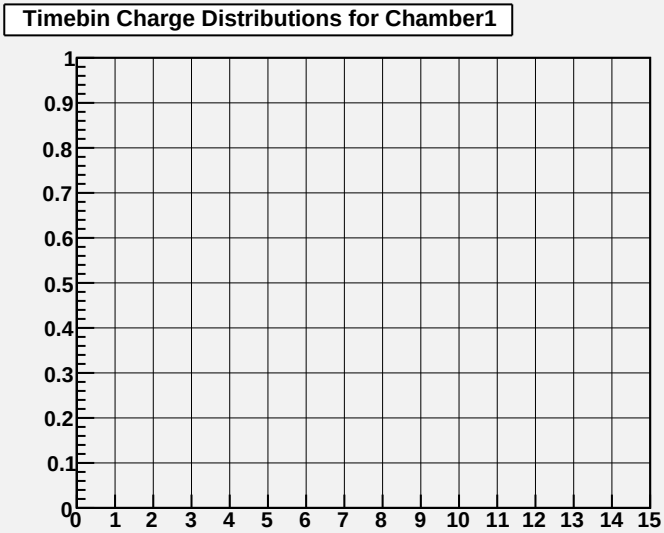
hits in layers 1 & 2

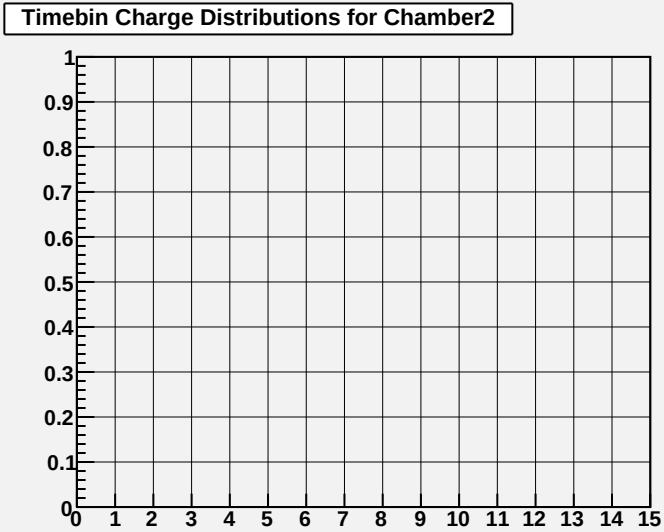


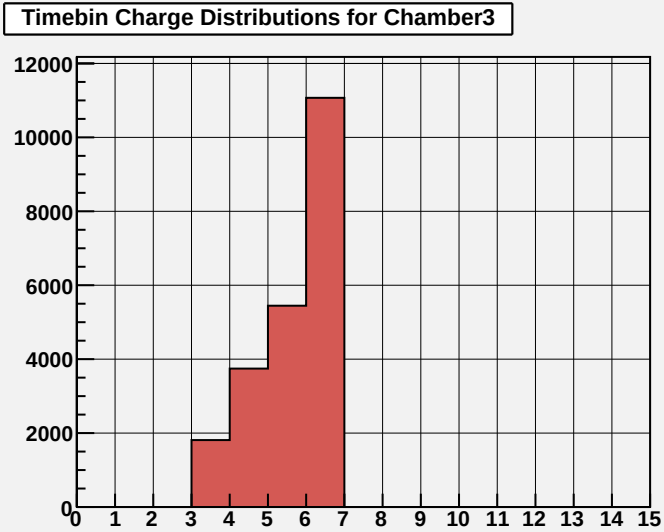

Sum of signals from all chambers per time bin
SumAllsignals
Entries 125085
Mean 3.386
RMS 2.105
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


Signal vs. Timebin
SignalTimebins
Entries 294
Mean x 3.228
Mean y 398.4
RMS x 1.893
RMS y 467.8
4000
3500
3000
2500
2000
1500
1000
500
0
0 2 4 6 8 10 12 14
10
10

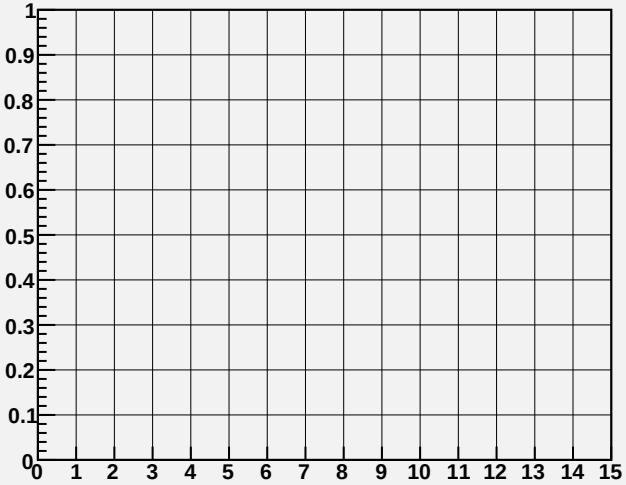

Timebin Charge Distributions for Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


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

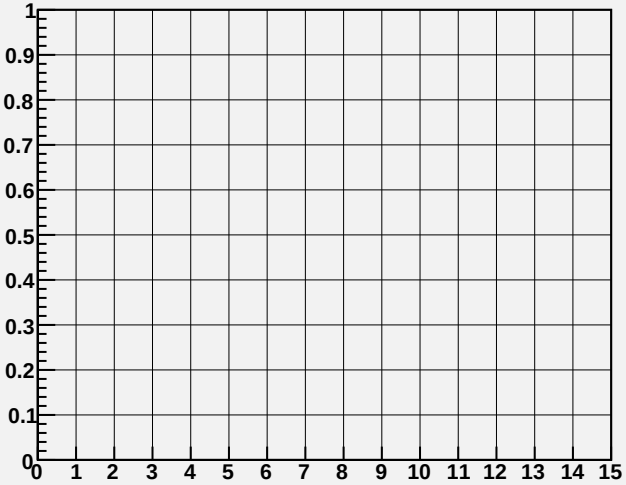

Timebin Charge Distributions for Chamber2
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


Timebin Charge Distributions for Chamber3
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

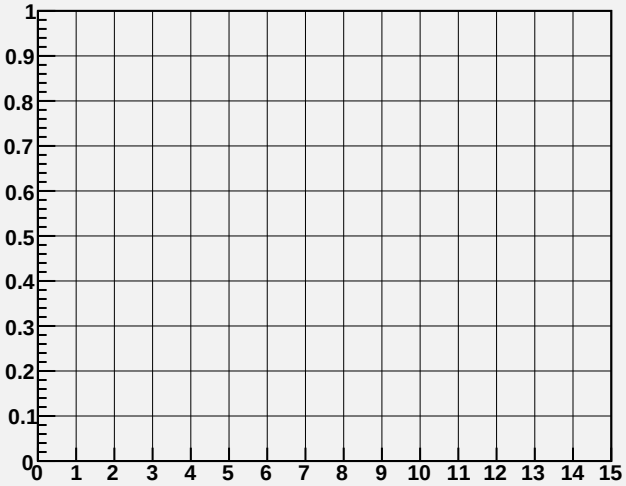
Timebin Charge Distributions for Chamber4



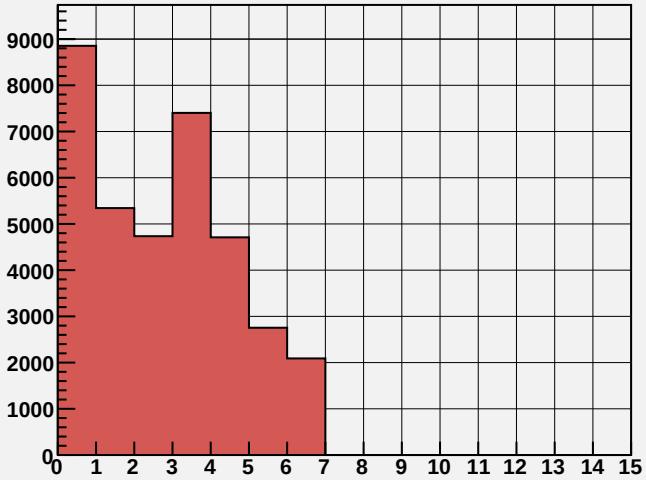
Timebin Charge Distributions for Chamber5

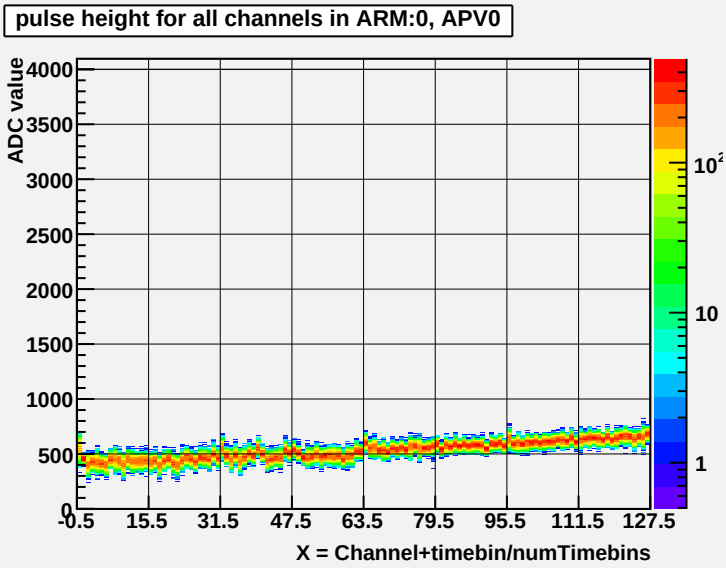


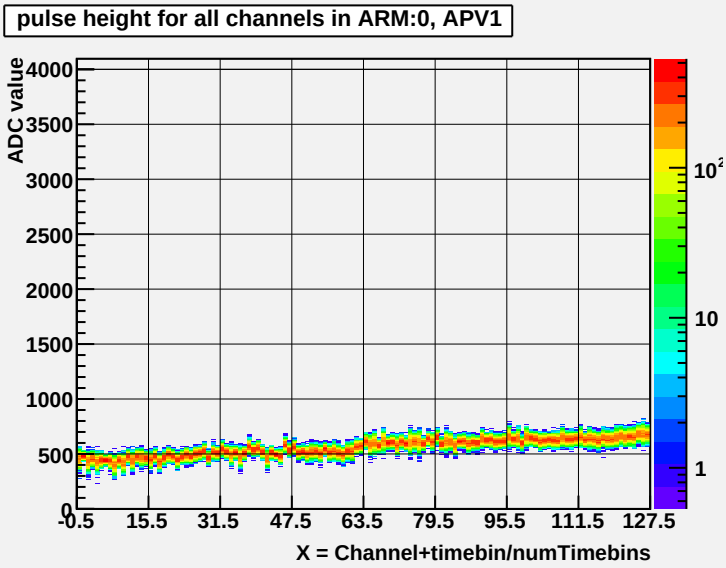
Timebin Charge Distributions for Chamber6

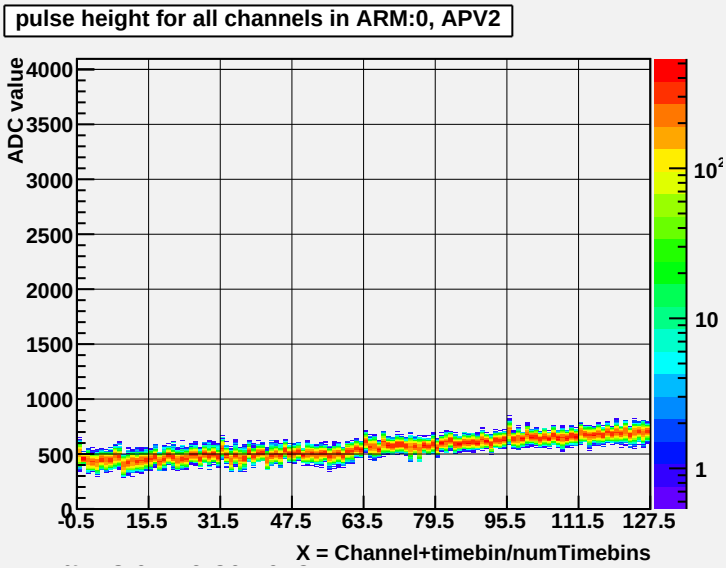


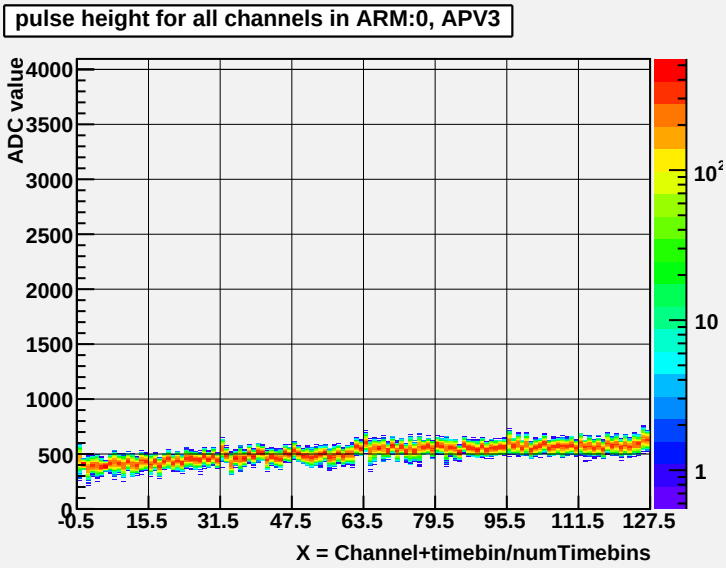
Timebin Charge Distributions for Chamber7

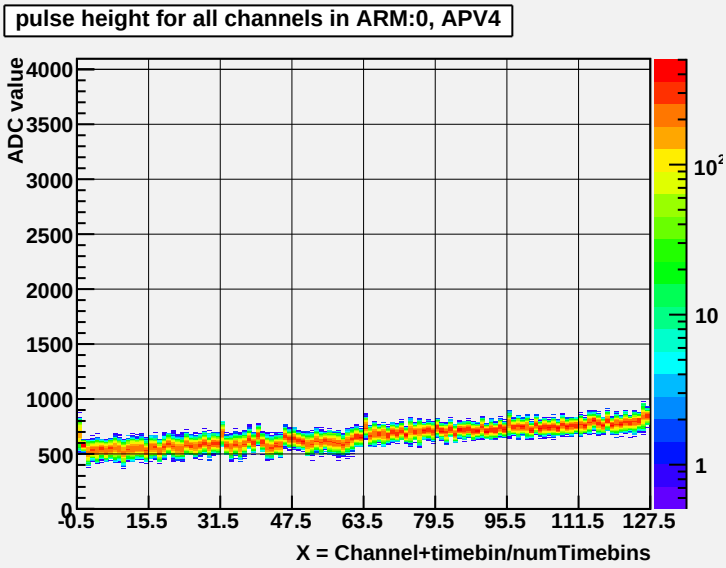


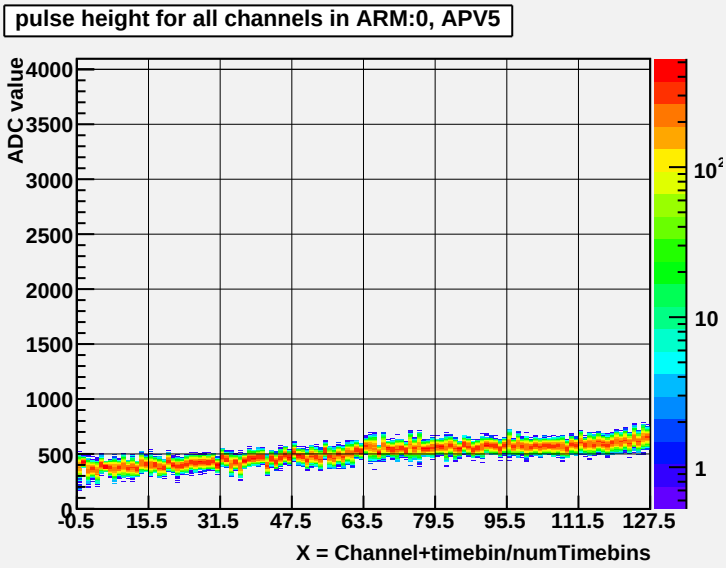

pulse height for all channels in ARM:0, APV0
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

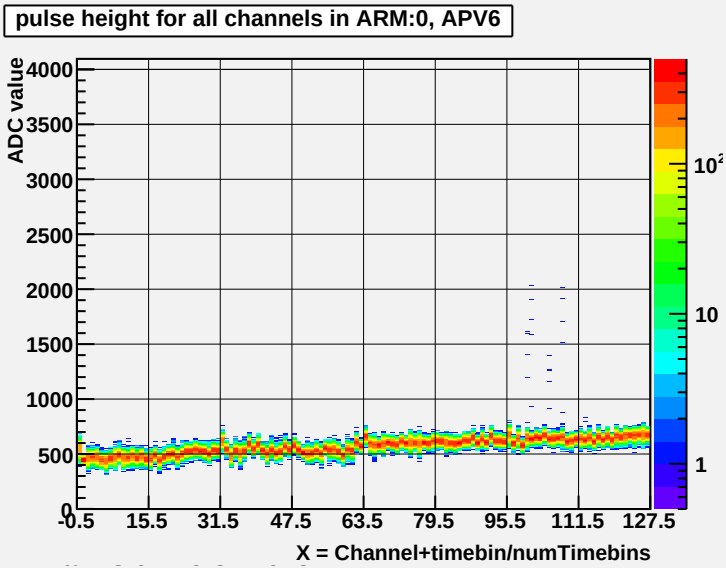

pulse height for all channels in ARM:0, APV1
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

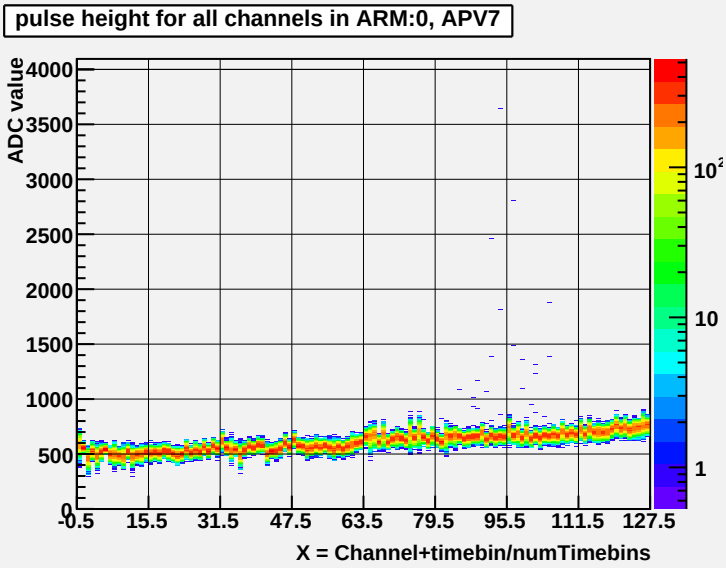

pulse height for all channels in ARM:0, APV2
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

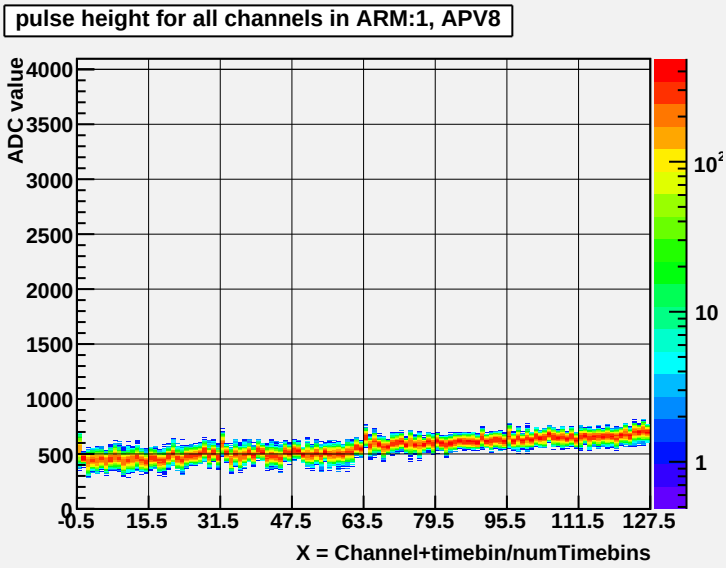

pulse height for all channels in ARM:0, APV3
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

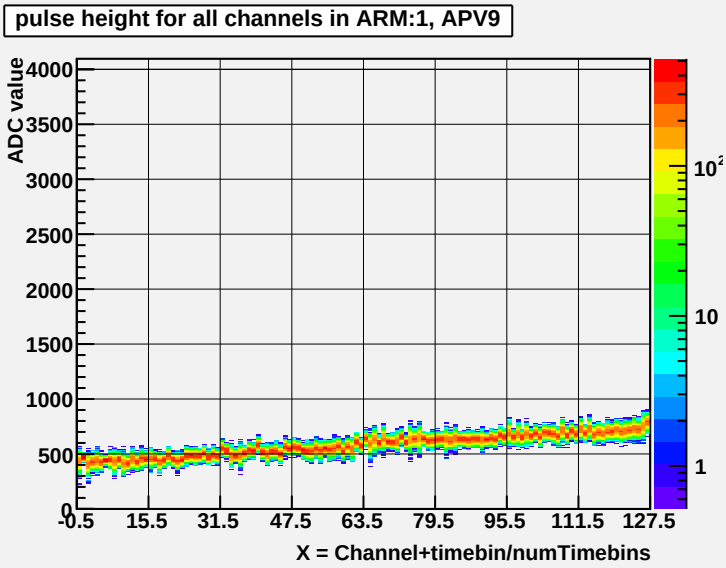

pulse height for all channels in ARM:0, APV4
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

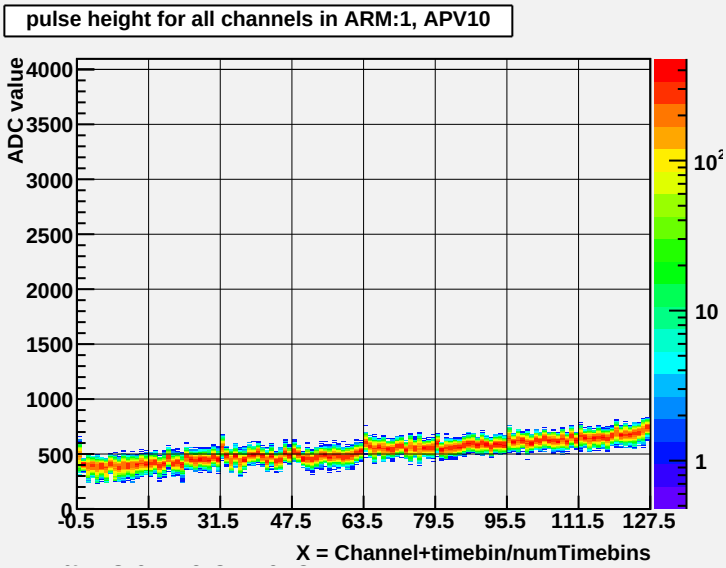

pulse height for all channels in ARM:0, APV5
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

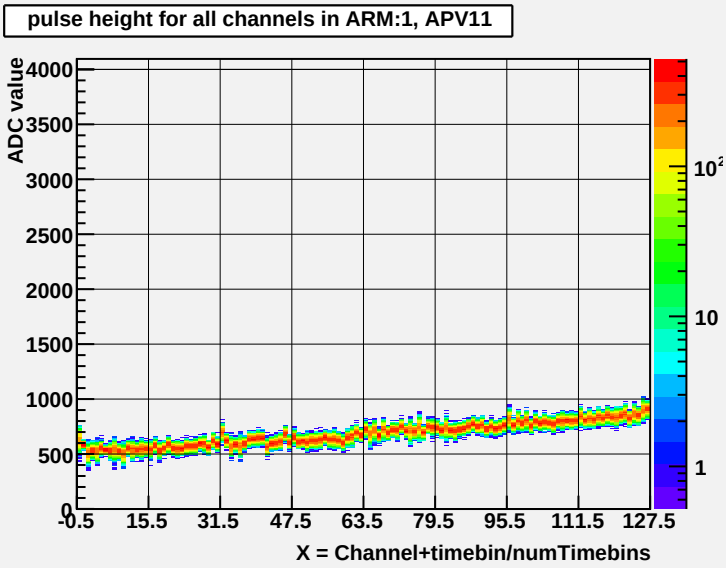

pulse height for all channels in ARM:0, APV6
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

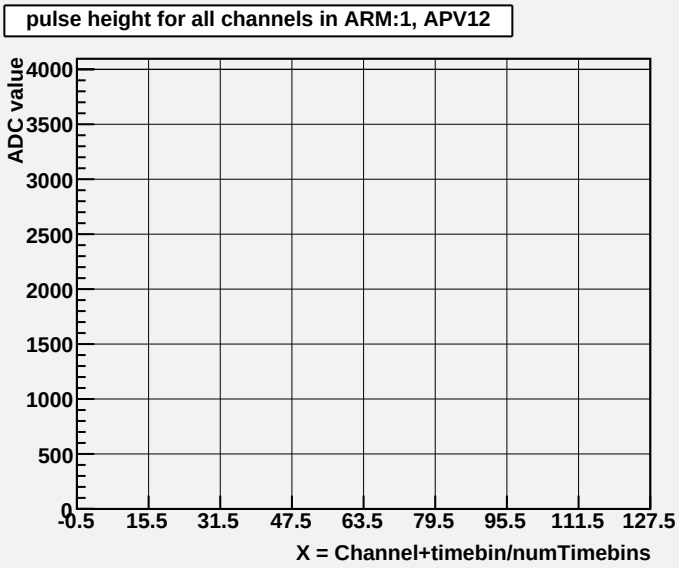

pulse height for all channels in ARM:0, APV7
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

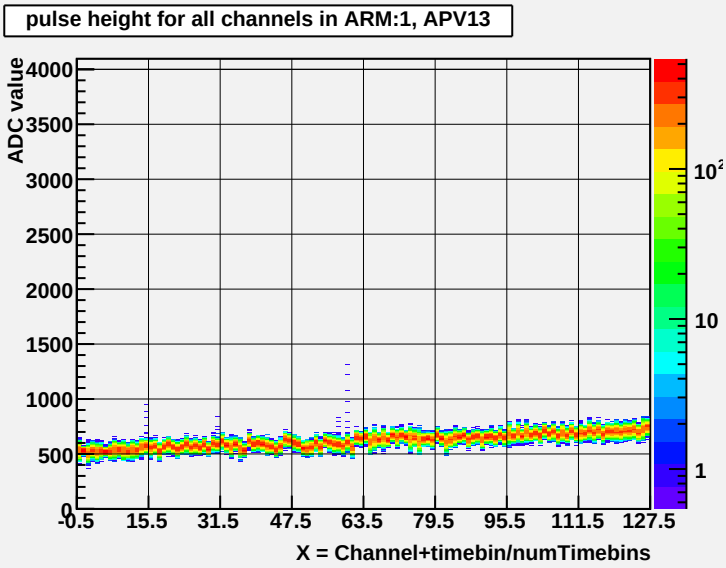

pulse height for all channels in ARM:1, APV8
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

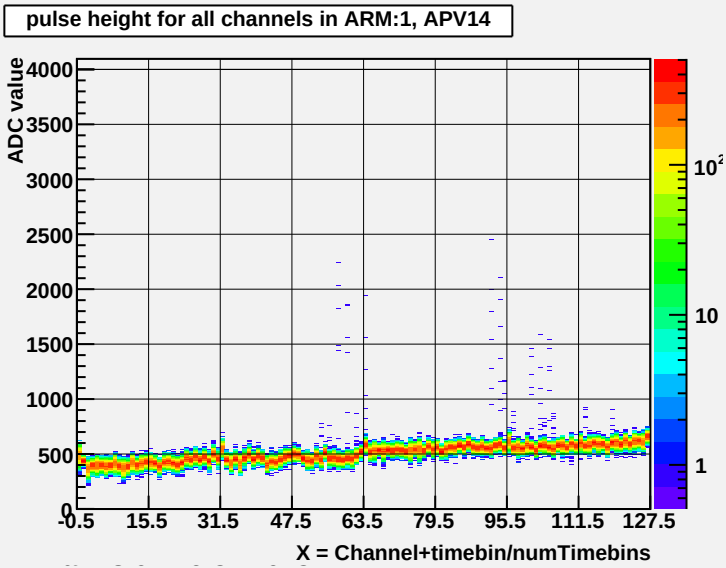

pulse height for all channels in ARM:1, APV9
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

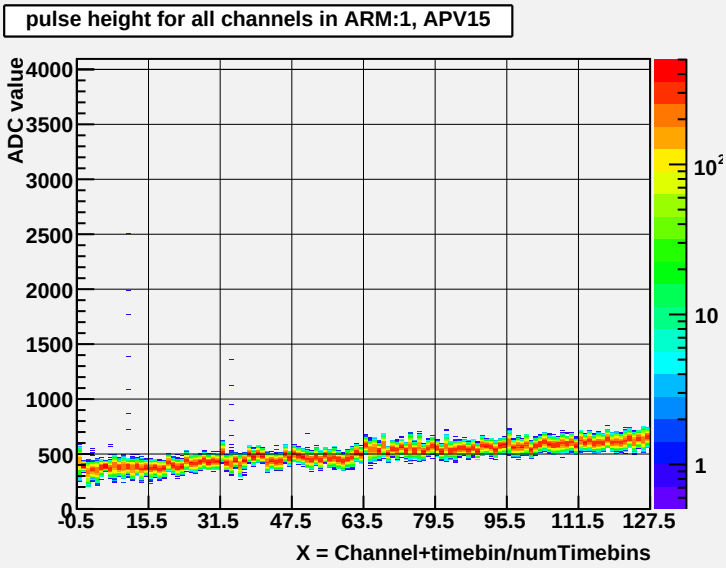

pulse height for all channels in ARM:1, APV10
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

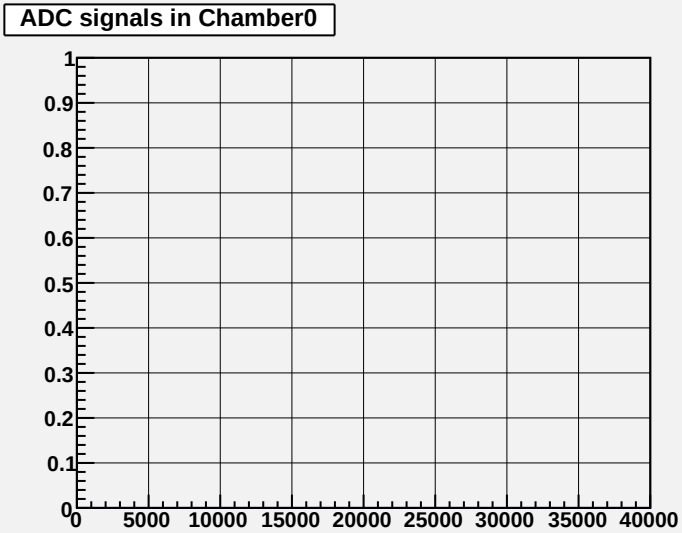

pulse height for all channels in ARM:1, APV11
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10^2
10
1

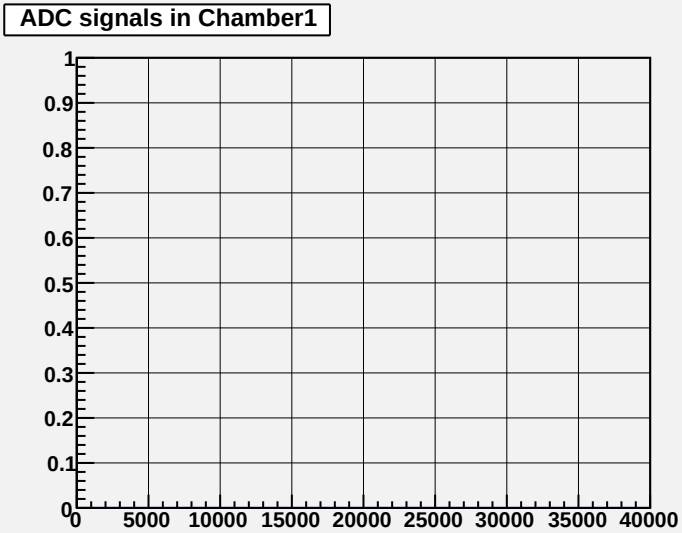

pulse height for all channels in ARM:1, APV12
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins

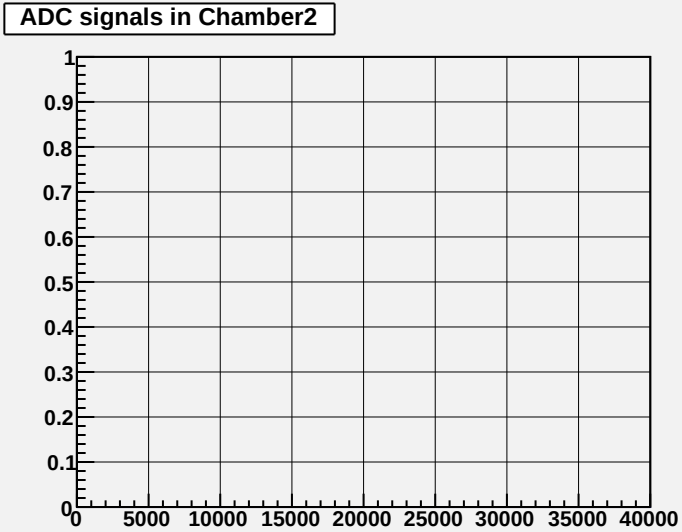

pulse height for all channels in ARM:1, APV13
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

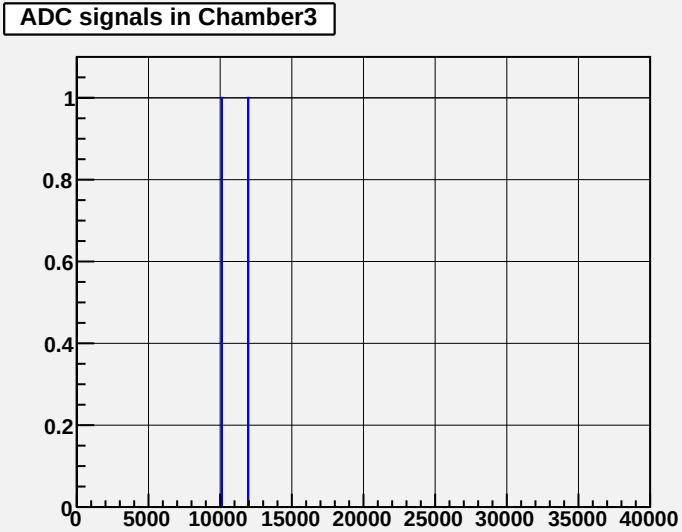

pulse height for all channels in ARM:1, APV14
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

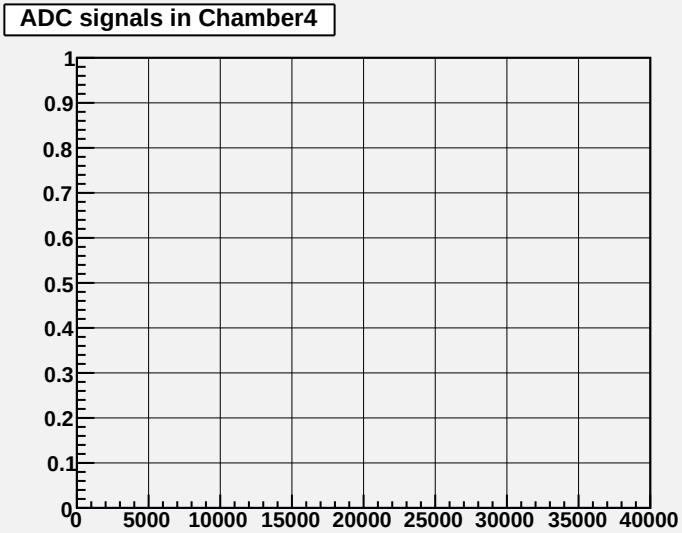

pulse height for all channels in ARM:1, APV15
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

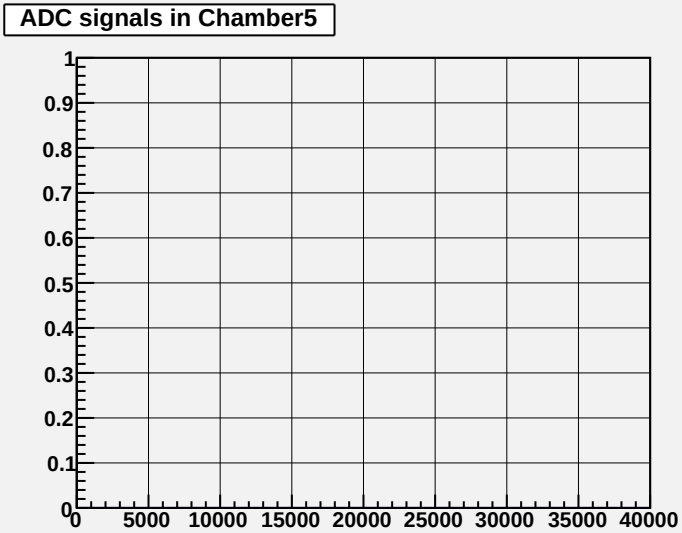

ADC signals in Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

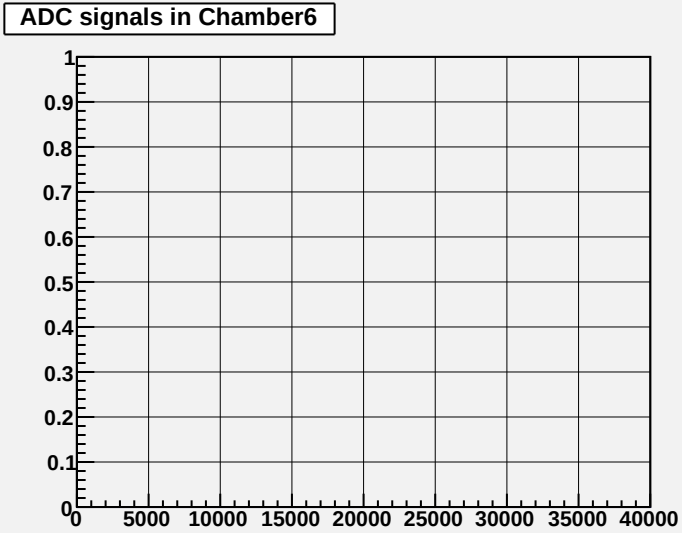

ADC signals in Chamber1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

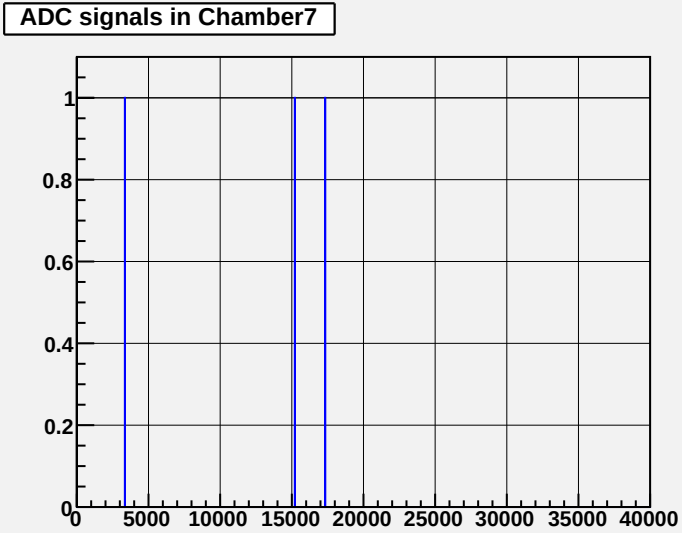

ADC signals in Chamber2
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

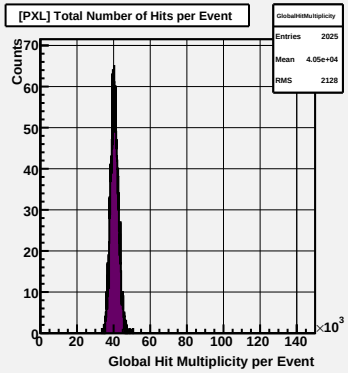

ADC signals in Chamber3
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

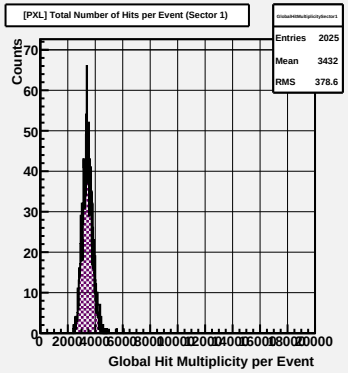

ADC signals in Chamber4
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

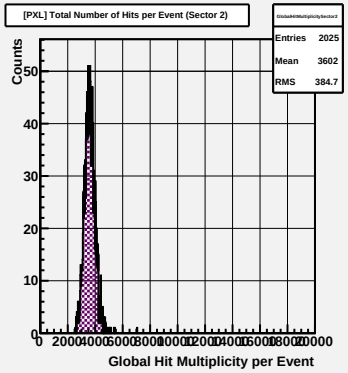

ADC signals in Chamber5
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

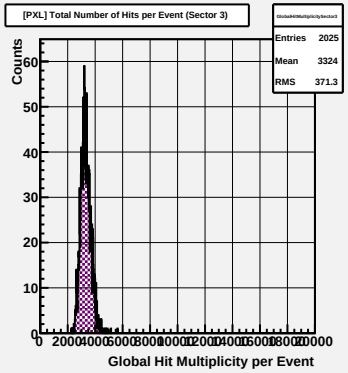

ADC signals in Chamber6
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000

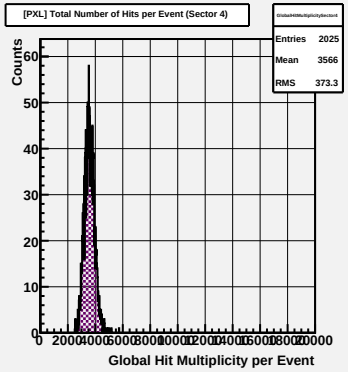

ADC signals in Chamber7
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000

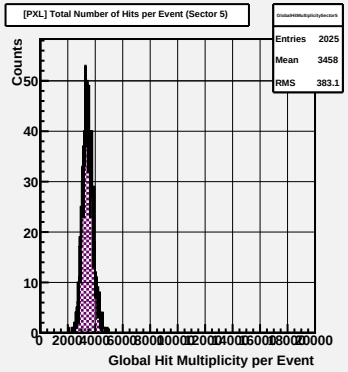

[PXL] Total Number of Hits per Event
GlobalHitMultiplicity
Entries 2025
Mean 4.05e+04
RMS 2128
Counts
Global Hit Multiplicity per Event
×10^3

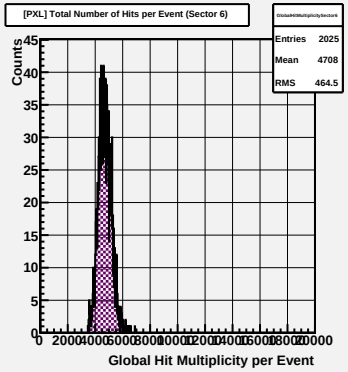

[PXL] Total Number of Hits per Event (Sector 1)
Entries 2025
Mean 3432
RMS 378.6
Counts
Global Hit Multiplicity per Event

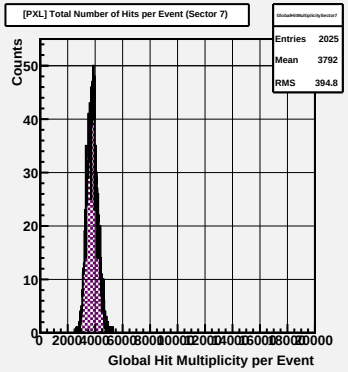

[PXL] Total Number of Hits per Event (Sector 2)
Entries 2025
Mean 3602
RMS 384.7
Counts
Global Hit Multiplicity per Event

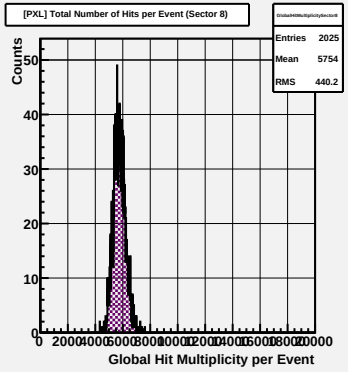

[PXL] Total Number of Hits per Event (Sector 3)
Entries 2025
Mean 3324
RMS 371.3
Counts
Global Hit Multiplicity per Event

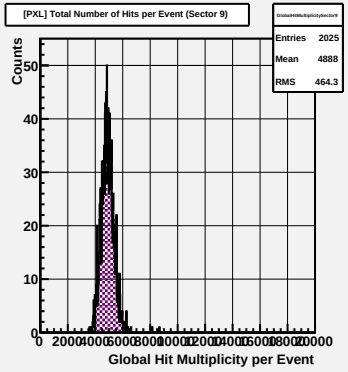

[PXL] Total Number of Hits per Event (Sector 4)
Entries 2025
Mean 3566
RMS 373.3
Counts
Global Hit Multiplicity per Event

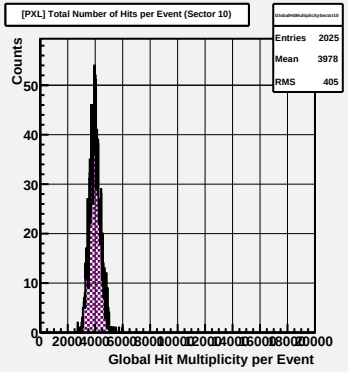

[PXL] Total Number of Hits per Event (Sector 5)
Entries 2025
Mean 3458
RMS 383.1
Counts
Global Hit Multiplicity per Event

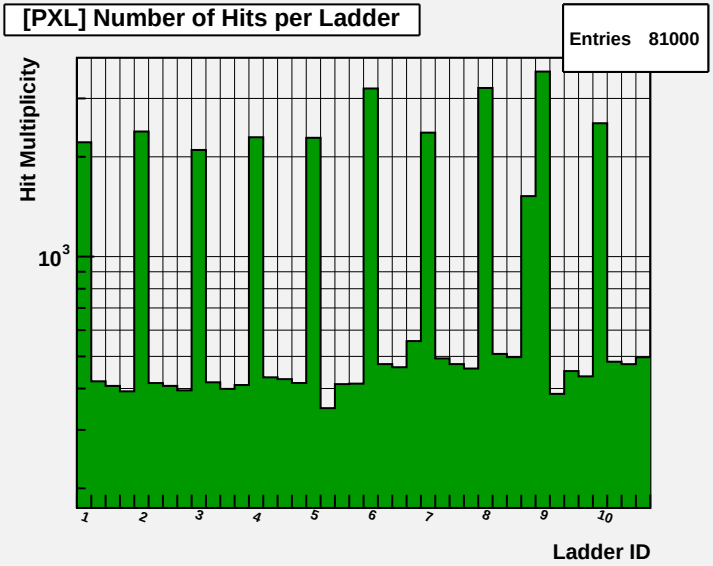

[PXL] Total Number of Hits per Event (Sector 6)
Entries 2025
Mean 4708
RMS 464.5
Counts
Global Hit Multiplicity per Event

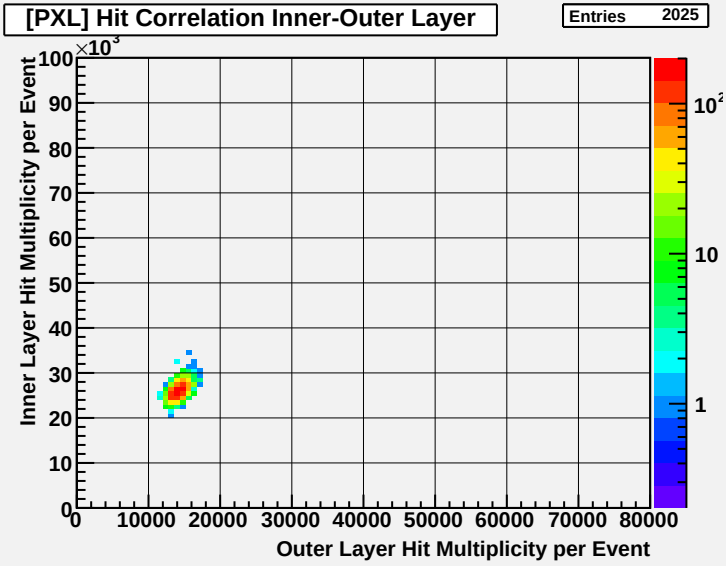

[PXL] Total Number of Hits per Event (Sector 7)
Entries 2025
Mean 3792
RMS 394.8
Counts
Global Hit Multiplicity per Event

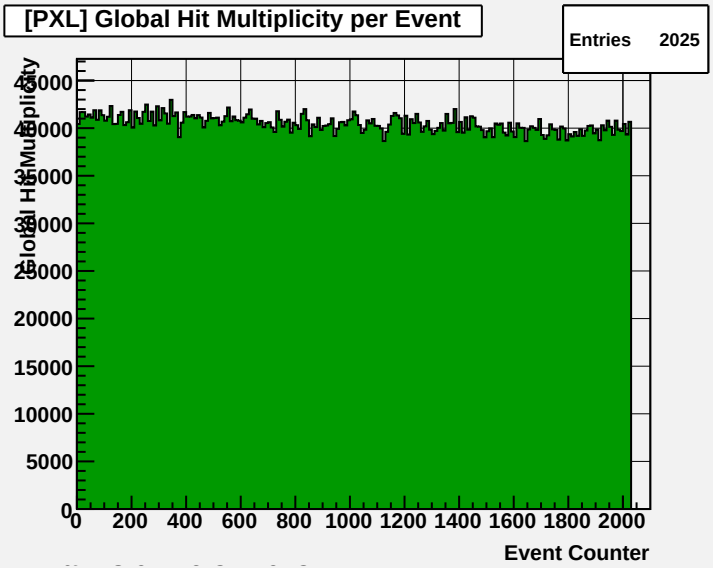

[PXL] Total Number of Hits per Event (Sector 8)
Entries 2025
Mean 5754
RMS 440.2
Counts
Global Hit Multiplicity per Event

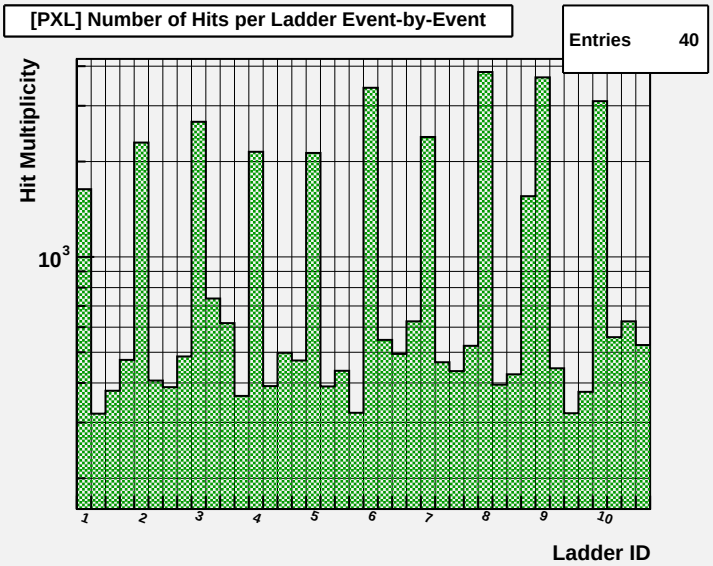

[PXL] Total Number of Hits per Event (Sector 9)
Entries 2025
Mean 4888
RMS 464.3
Counts
Global Hit Multiplicity per Event

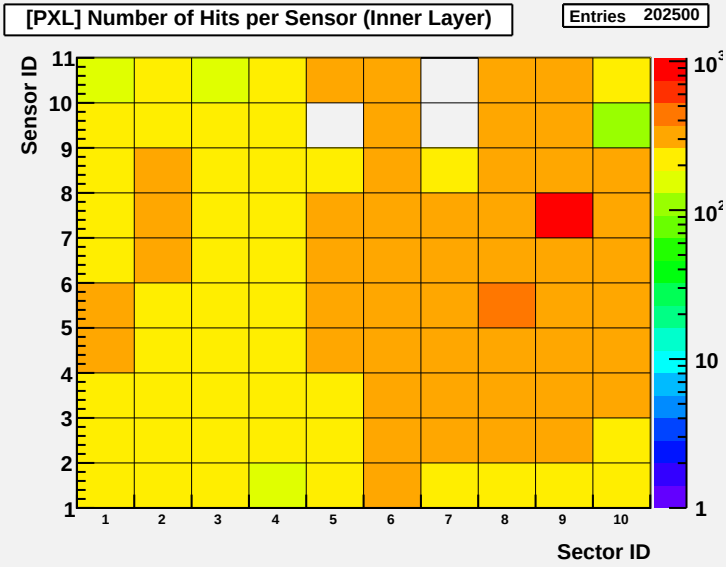

[PXL] Total Number of Hits per Event (Sector 10)
Entries 2025
Mean 3978
RMS 405
Counts
Global Hit Multiplicity per Event

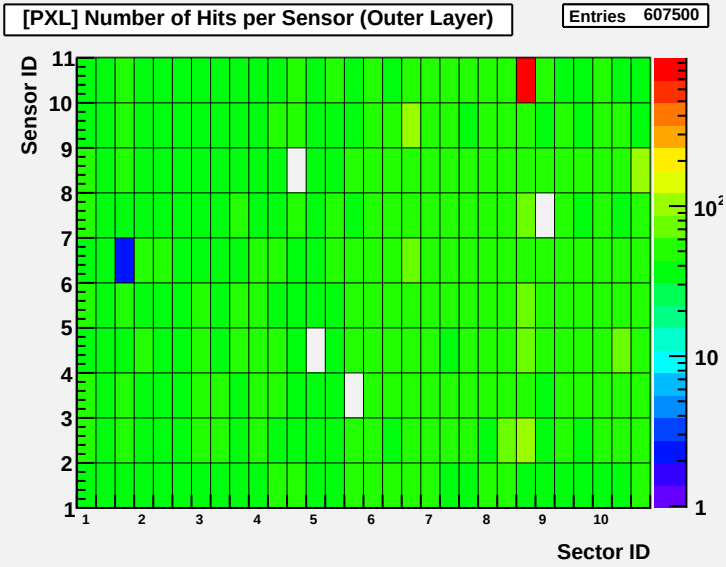

[PXL] Number of Hits per Ladder
Entries 81000
Hit Multiplicity
10^3
1 2 3 4 5 6 7 8 9 10
Ladder ID

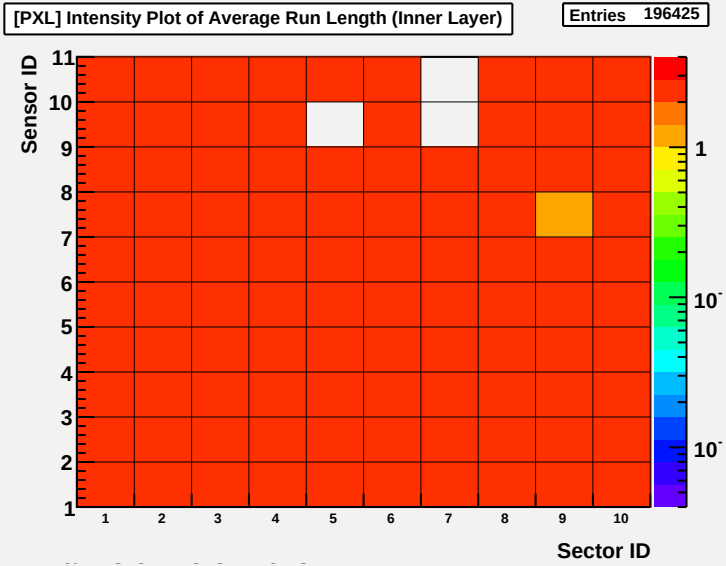

[PXL] Hit Correlation Inner-Outer Layer
Entries 2025
$\times 10^3$
Inner Layer Hit Multiplicity per Event
0 10 20 30 40 50 60 70 80 90 100
0 10000 20000 30000 40000 50000 60000 70000 80000
Outer Layer Hit Multiplicity per Event
10^2
10
1

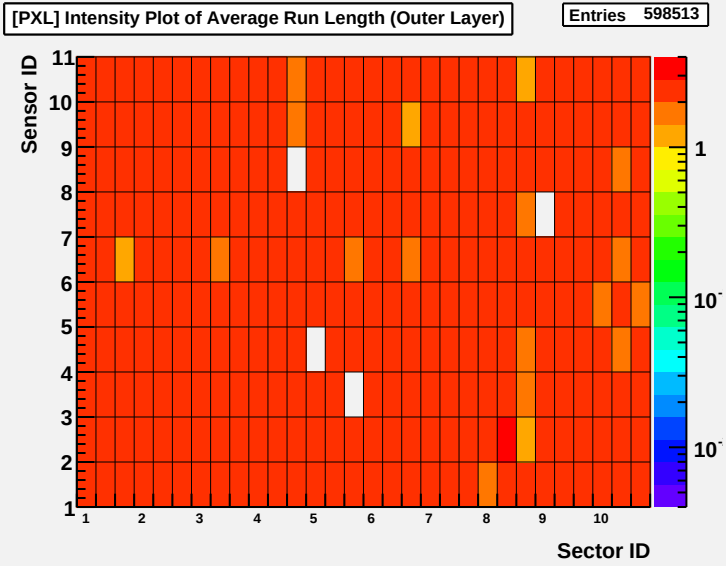

[PXL] Global Hit Multiplicity per Event
Entries 2025
Global Hit Multiplicity
0 5000 10000 15000 20000 25000 30000 35000 40000 45000
0 200 400 600 800 1000 1200 1400 1600 1800 2000
Event Counter

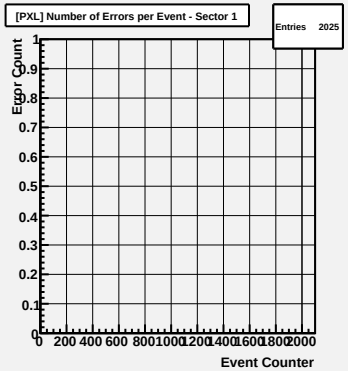

[PXL] Number of Hits per Ladder Event-by-Event
Entries 40
Hit Multiplicity
10^3
1 2 3 4 5 6 7 8 9 10
Ladder ID

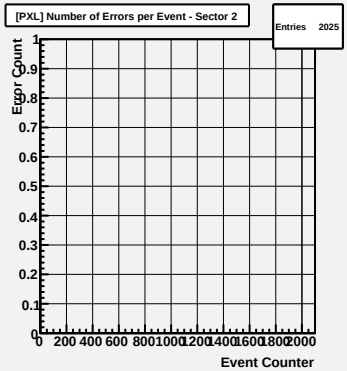

[PXL] Number of Hits per Sensor (Inner Layer)
Entries 202500
Sensor ID
Sector ID

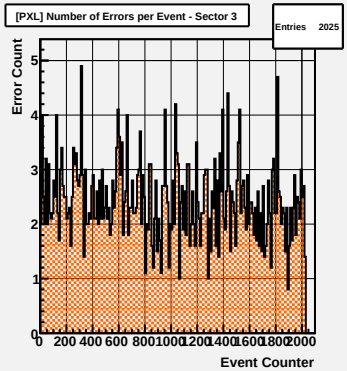

[PXL] Number of Hits per Sensor (Outer Layer)
Entries 607500
Sensor ID
Sector ID

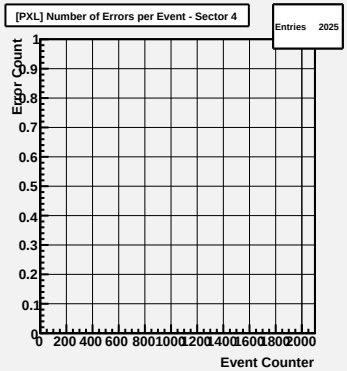

[PXL] Intensity Plot of Average Run Length (Inner Layer)
Entries 196425
Sensor ID
Sector ID

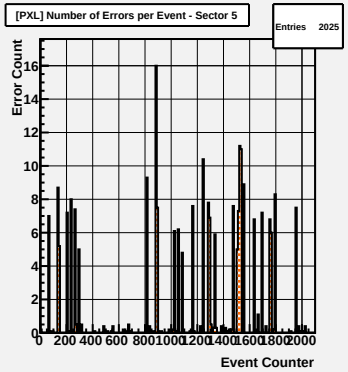

[PXL] Intensity Plot of Average Run Length (Outer Layer)
Entries 598513
Sensor ID
Sector ID

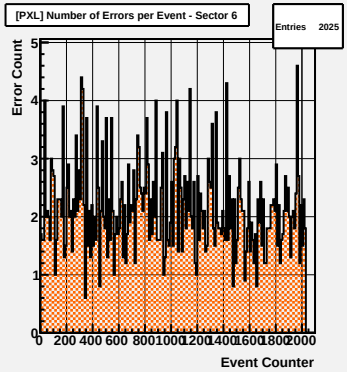

[PXL] Number of Errors per Event - Sector 1
Entries 2025
Error Count
Event Counter

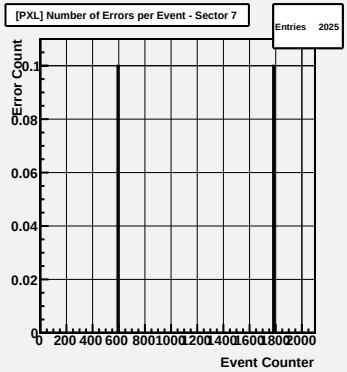

[PXL] Number of Errors per Event - Sector 2
Entries 2025
Error Count
Event Counter

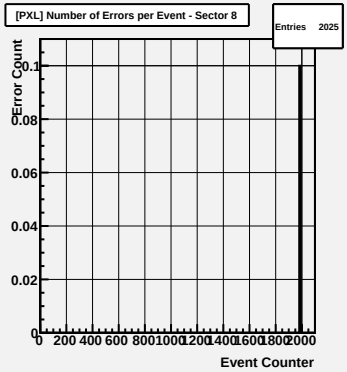

[PXL] Number of Errors per Event - Sector 3
Entries 2025
Error Count
Event Counter

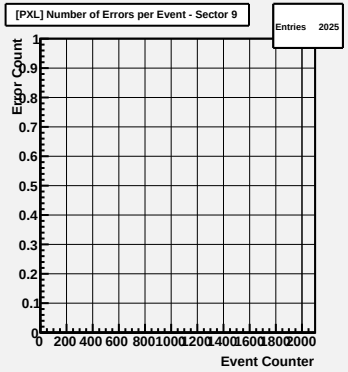

[PXL] Number of Errors per Event - Sector 4
Entries 2025
Error Count
Event Counter

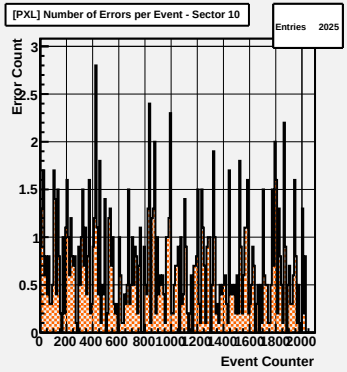

[PXL] Number of Errors per Event - Sector 5
Entries 2025
Error Count
Event Counter

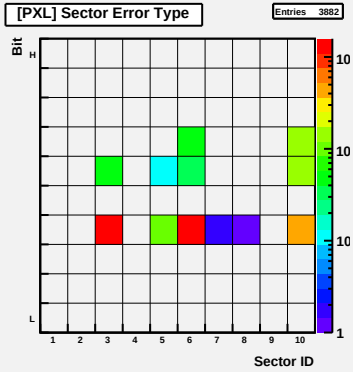

[PXL] Number of Errors per Event - Sector 6
Entries 2025
Error Count
Event Counter

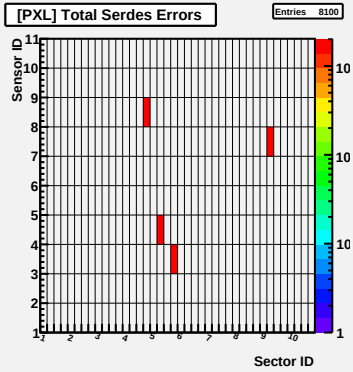

[PXL] Number of Errors per Event - Sector 7
Entries 2025
Error Count
Event Counter

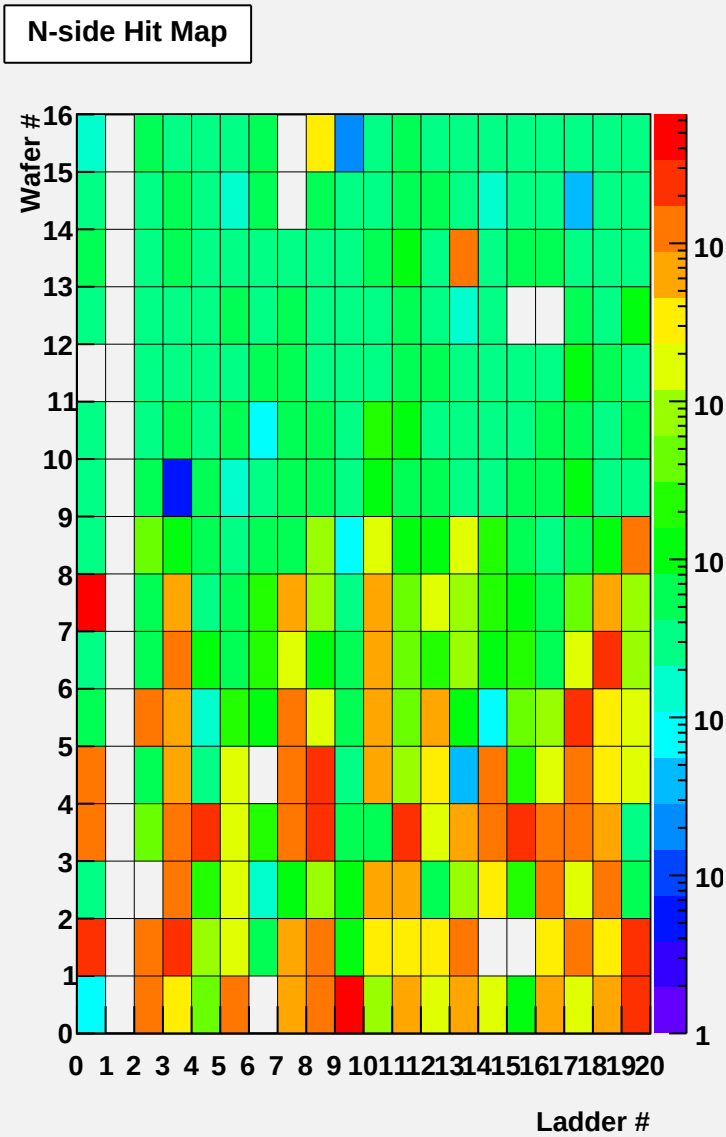

[PXL] Number of Errors per Event - Sector 8
Entries 2025
Error Count
Event Counter

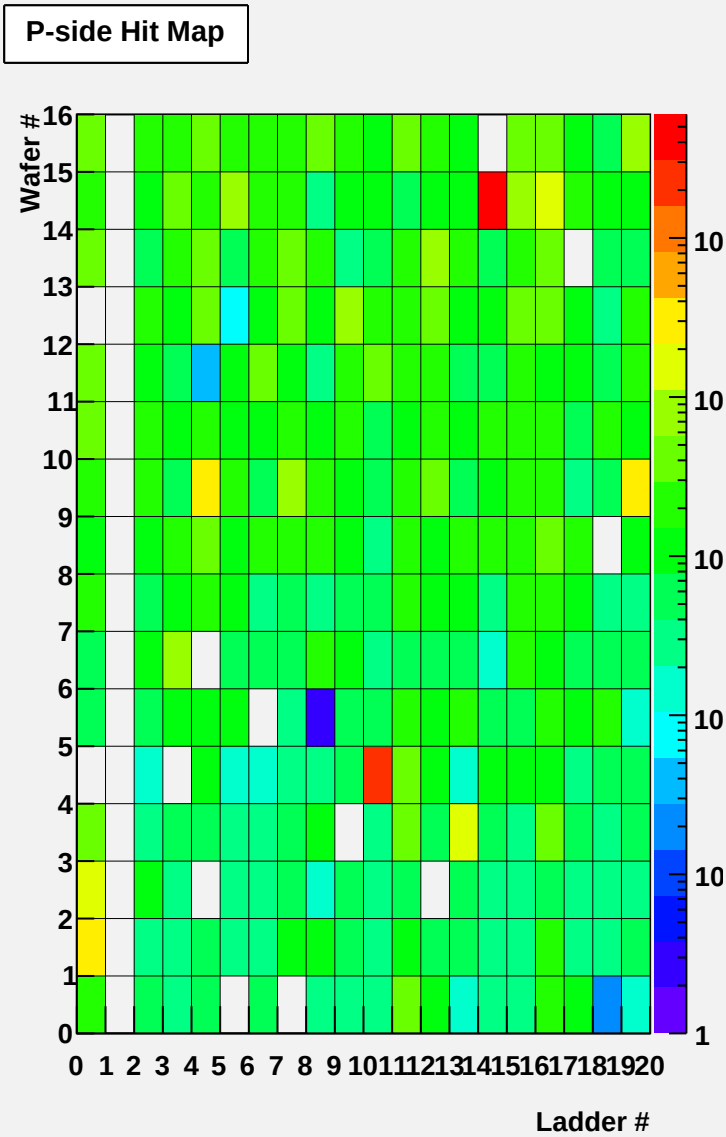

[PXL] Number of Errors per Event - Sector 9
Entries 2025
Error Count
Event Counter

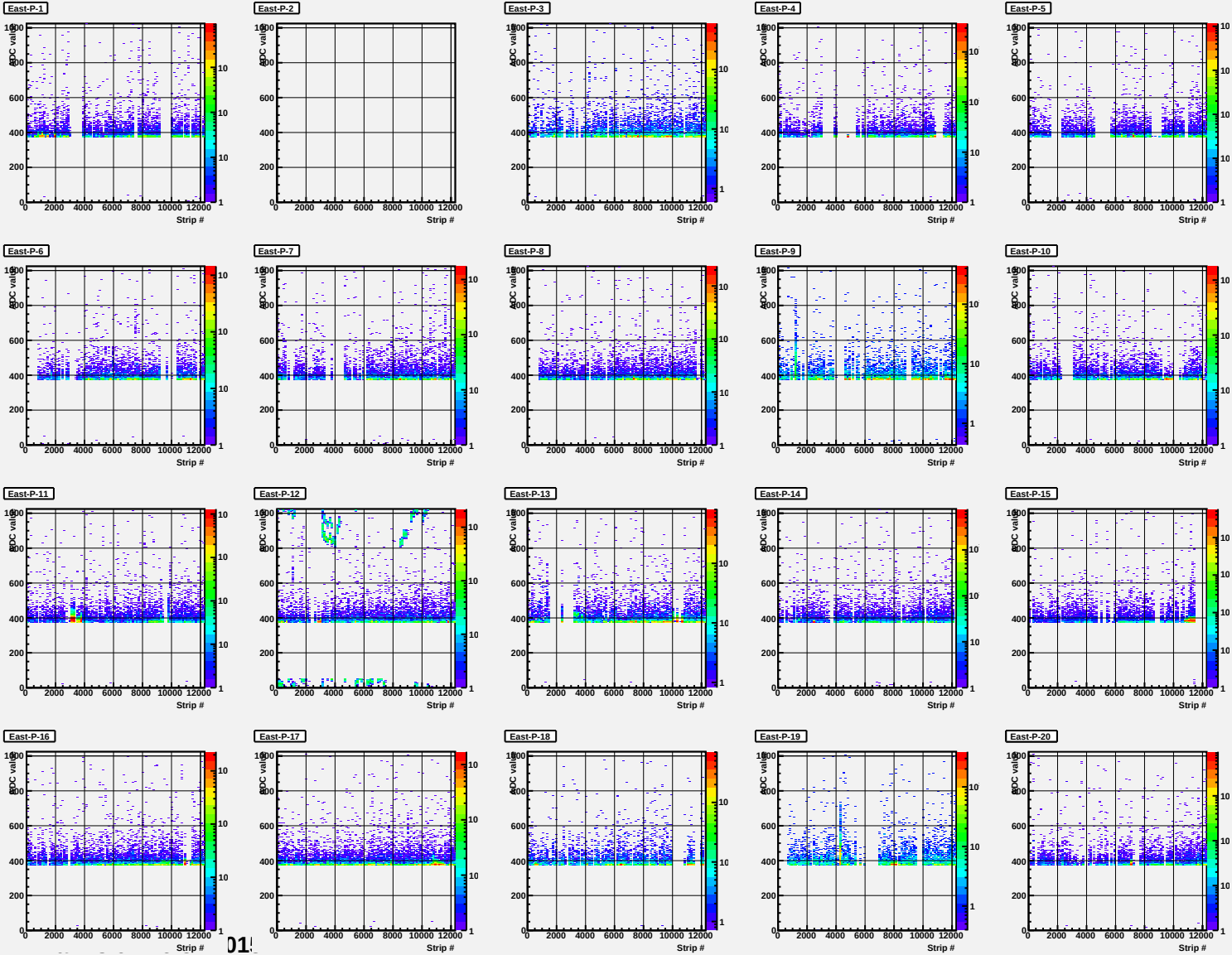

[PXL] Number of Errors per Event - Sector 10
Entries 2025
Error Count
Event Counter

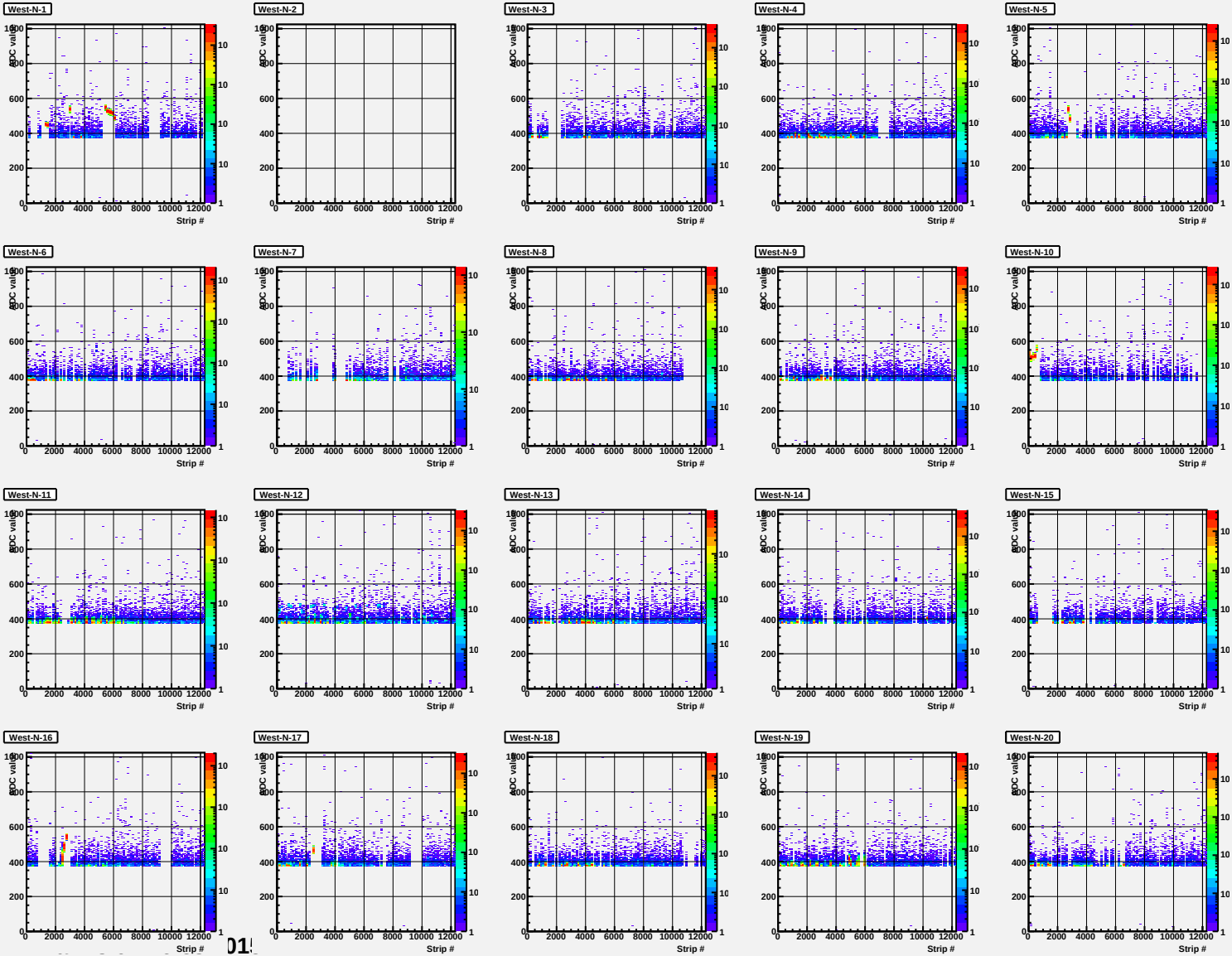

[PXL] Sector Error Type
Entries 3882
Bit
H
L
Sector ID

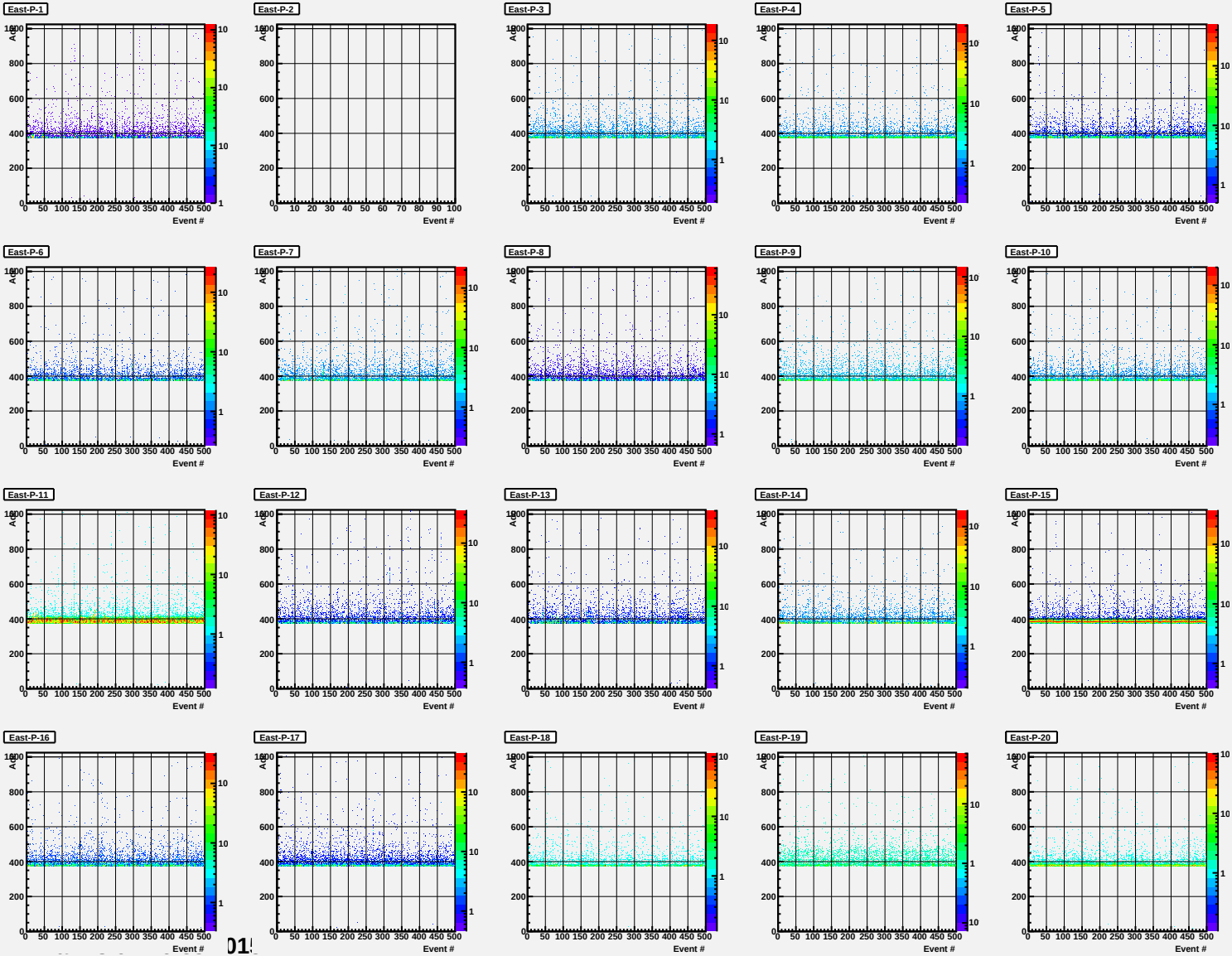

[PXL] Total Serdes Errors
Entries 8100
Sensor ID
Sector ID

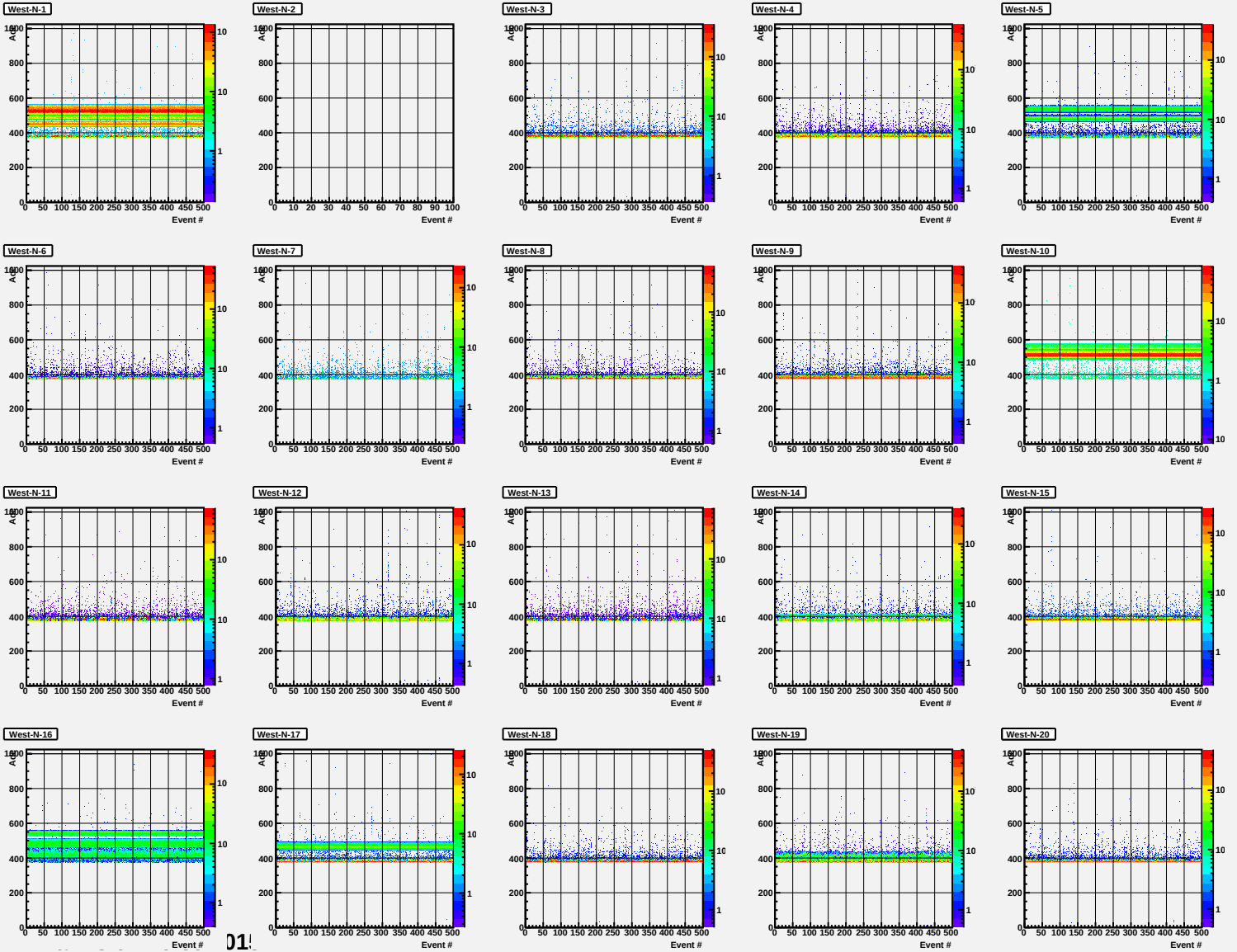

N-side Hit Map
Wafer #
Ladder #
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1
10
10
10
10
10

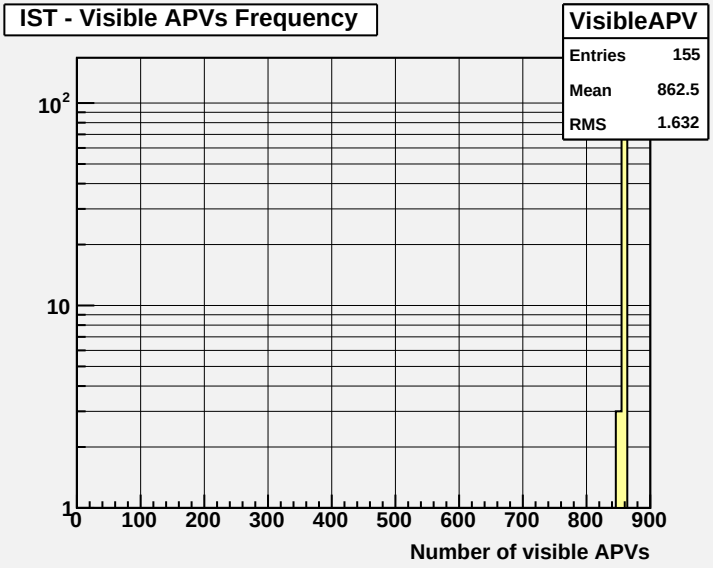

P-side Hit Map
Wafer #
Ladder #
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1
10
10
10
10
10

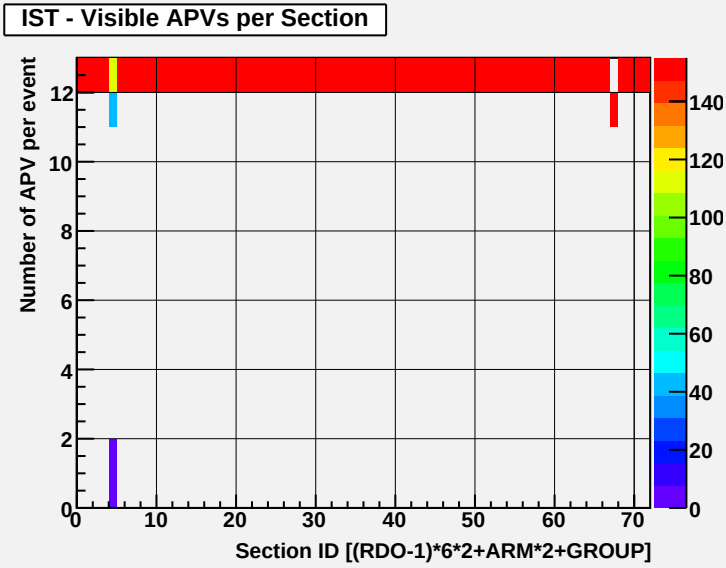

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
ADC value
Strip #

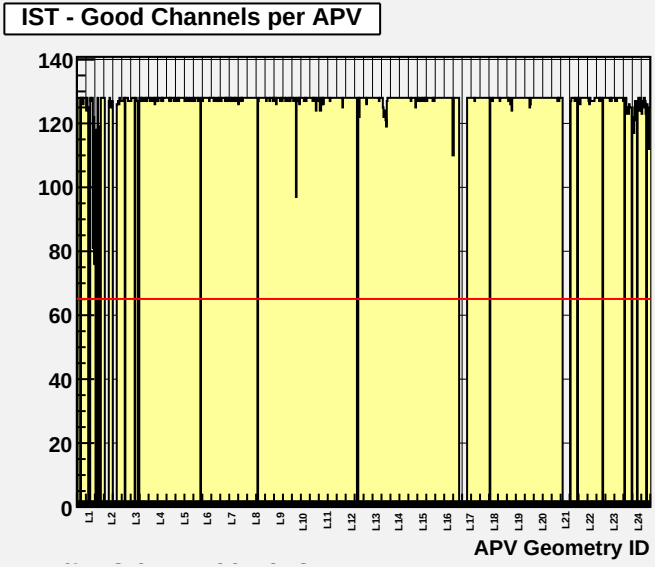

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
ADC value
Strip #

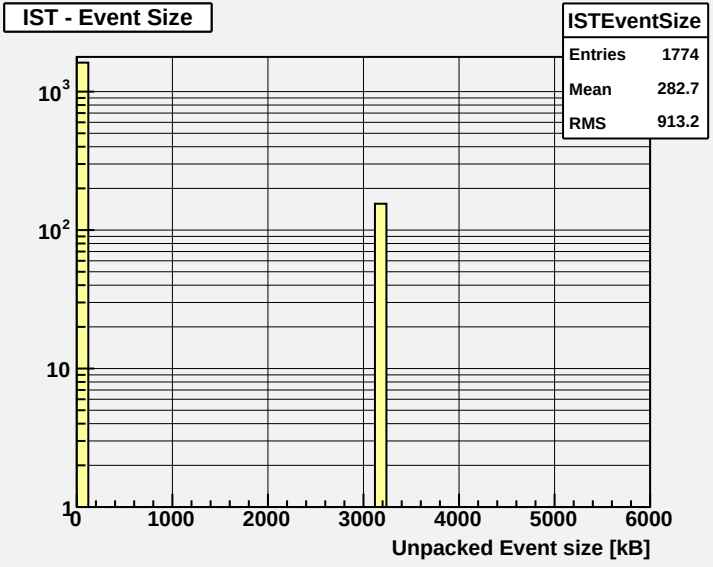

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
Adc
Event #

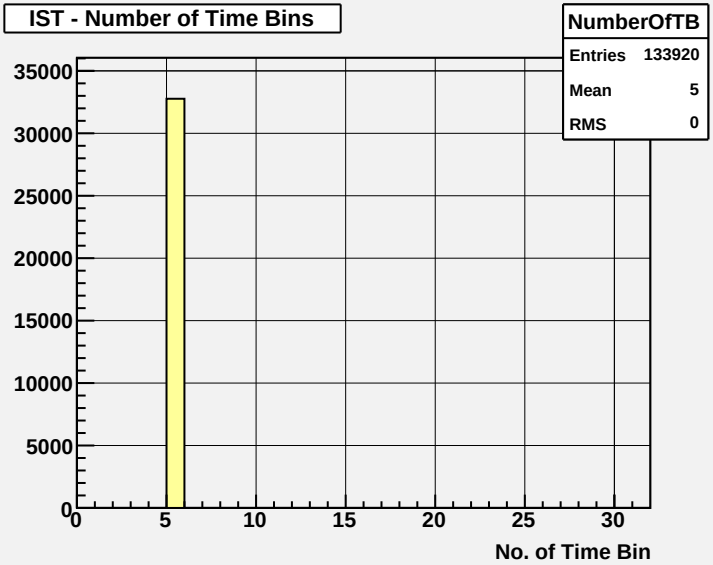

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
Adc
Event #

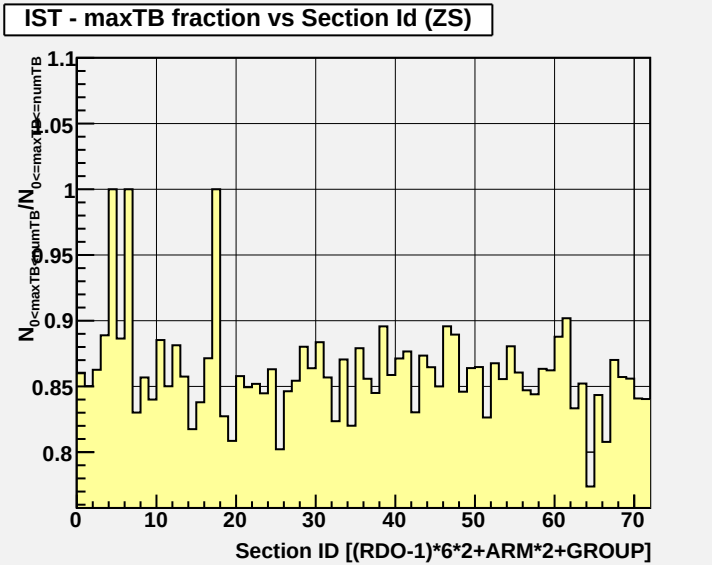

IST - Visible APVs Frequency
VisibleAPV
Entries 155
Mean 862.5
RMS 1.632
Number of visible APVs

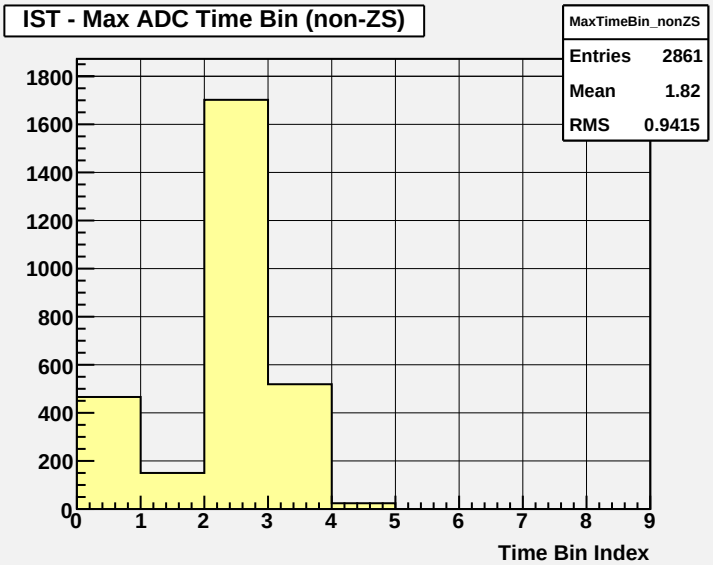

IST - Visible APVs per Section
Number of APV per event
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

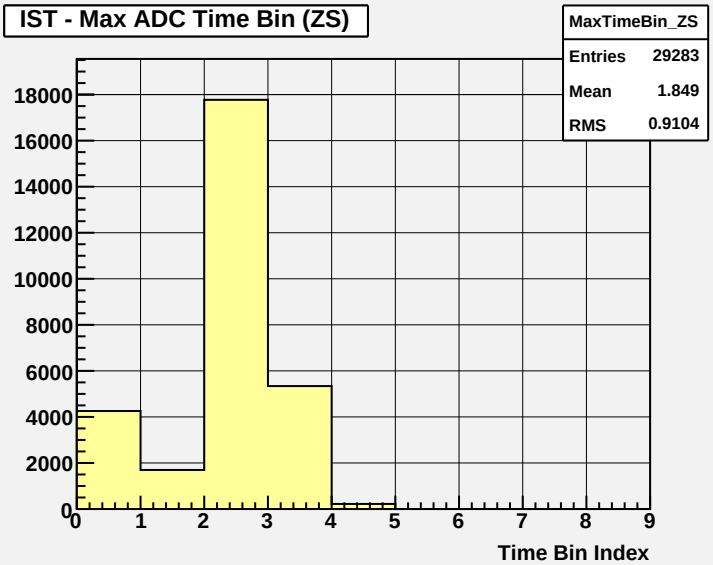

IST - Good Channels per APV
APV Geometry ID

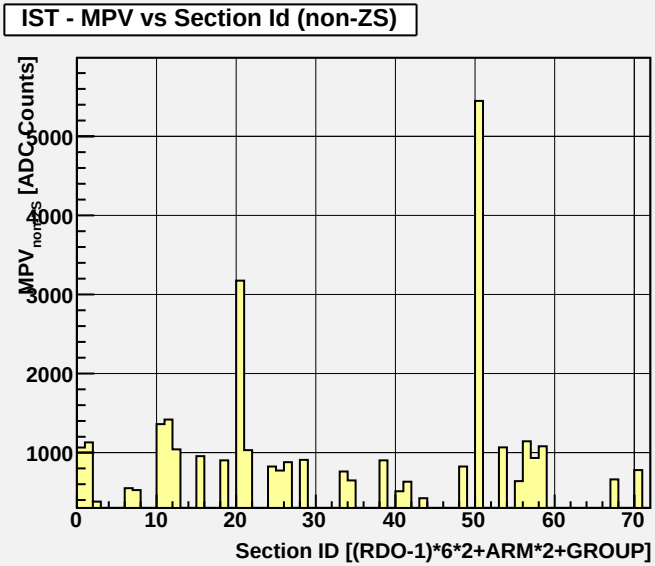

IST - Event Size
ISTEventSize
Entries 1774
Mean 282.7
RMS 913.2
Unpacked Event size [kB]

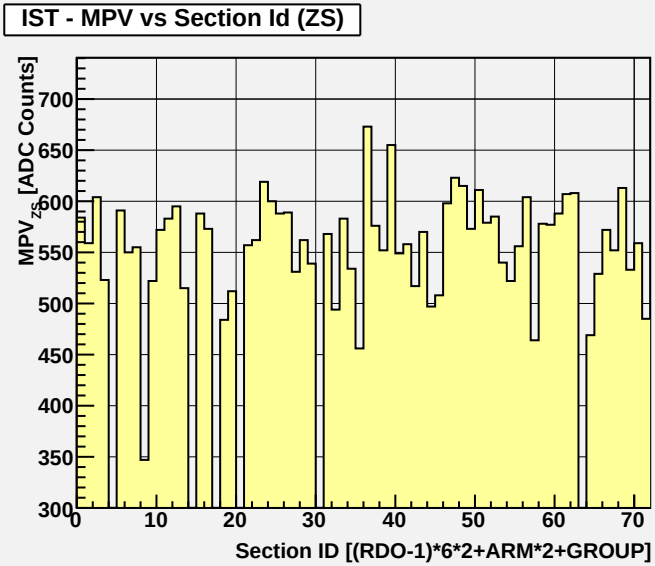

IST - Number of Time Bins
NumberOfTB
Entries 133920
Mean 5
RMS 0
No. of Time Bin

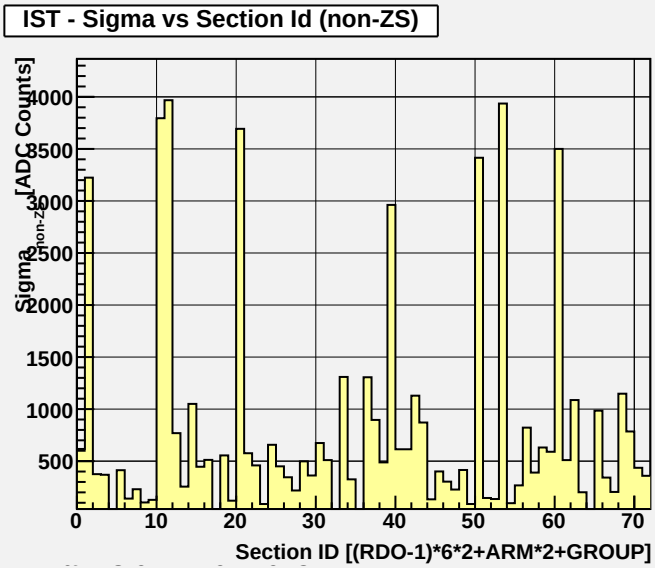

IST - maxTB fraction vs Section Id (ZS)
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

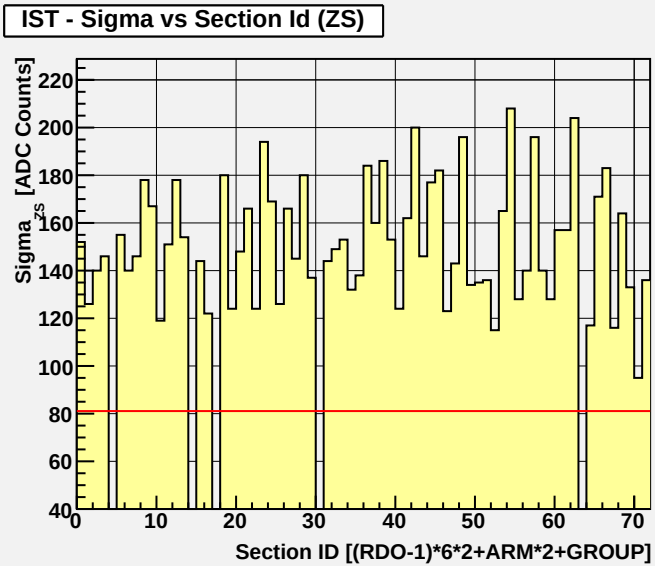

IST - Max ADC Time Bin (non-ZS)
MaxTimeBin_nonZS
Entries 2861
Mean 1.82
RMS 0.9415
Time Bin Index

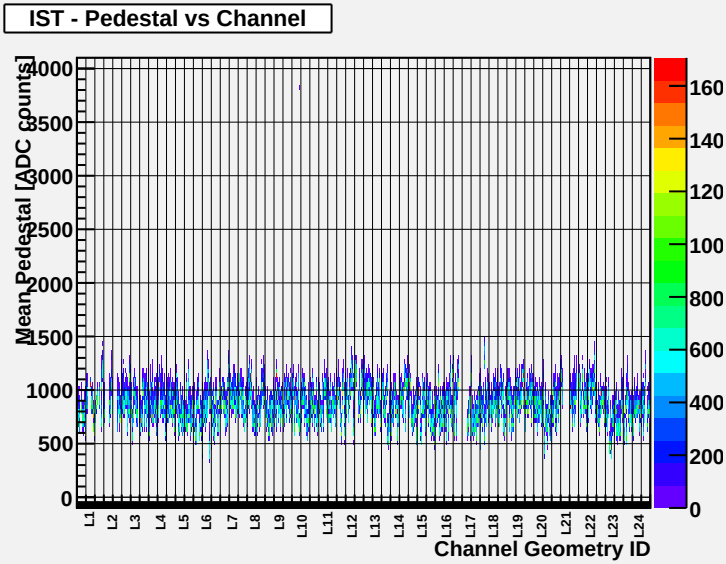

IST - Max ADC Time Bin (ZS)
MaxTimeBin_ZS
Entries 29283
Mean 1.849
RMS 0.9104
Time Bin Index

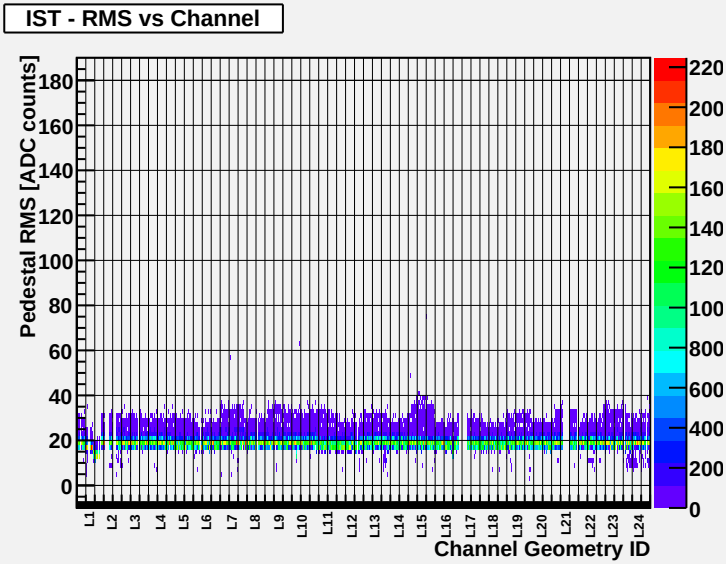

IST - MPV vs Section Id (non-ZS)
MPV_non-ZS [ADC Counts]
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

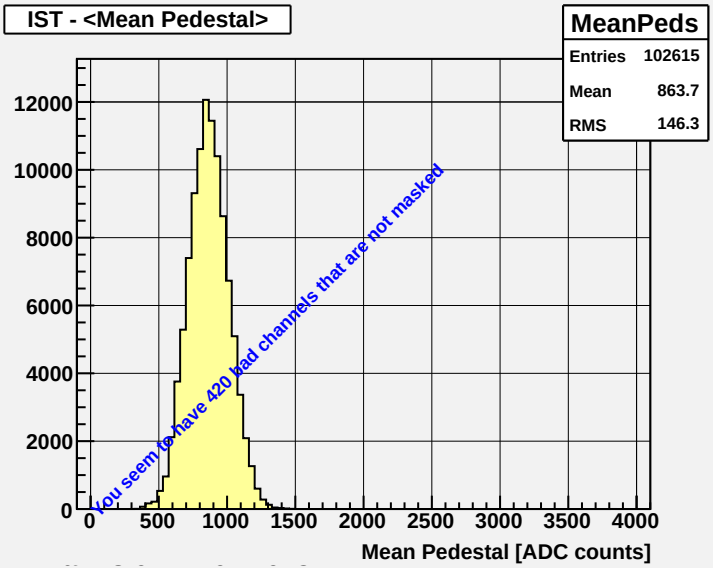

IST - MPV vs Section Id (ZS)
MPV_ZS [ADC Counts]
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

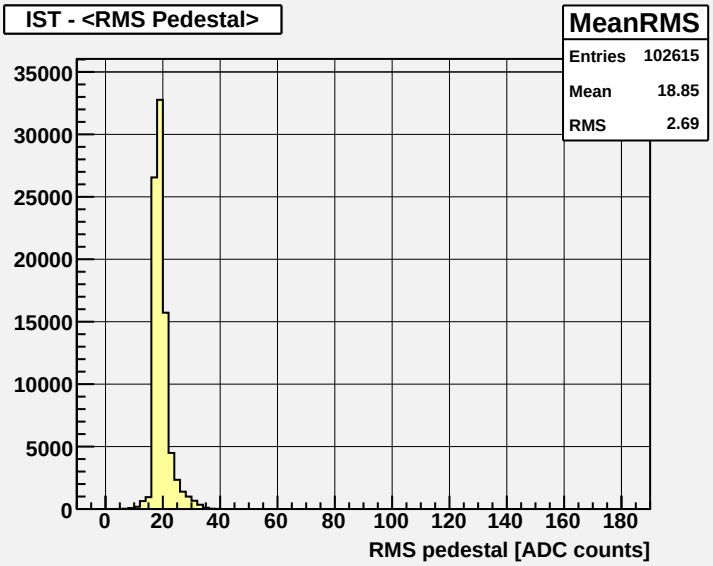

IST - Sigma vs Section Id (non-ZS)
Sigma_non-ZS [ADC Counts]
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

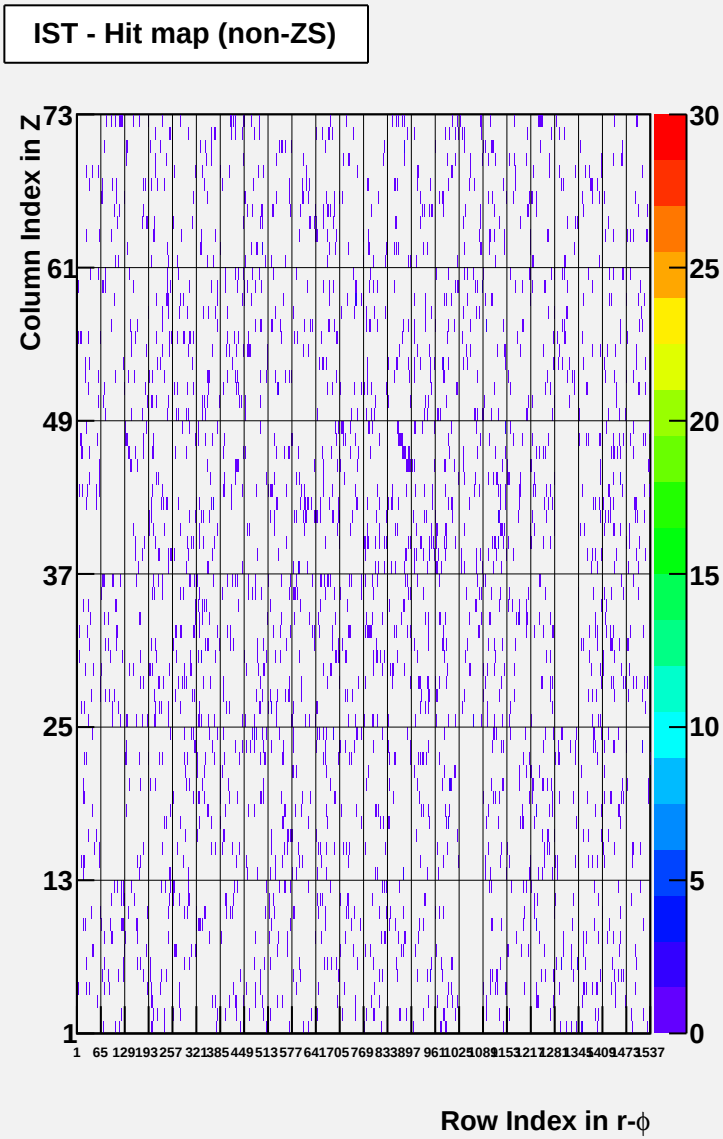

IST - Sigma vs Section Id (ZS)
Sigma_ZS [ADC Counts]
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

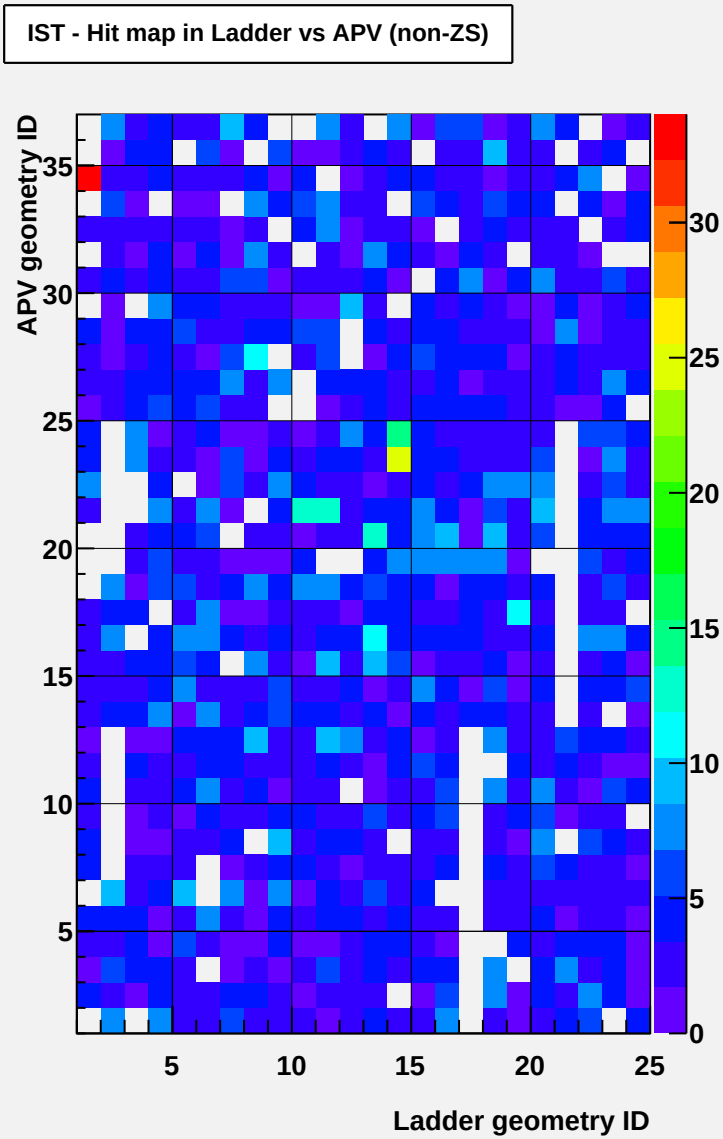

IST - Pedestal vs Channel
Mean Pedestal [ADC counts]
Channel Geometry ID

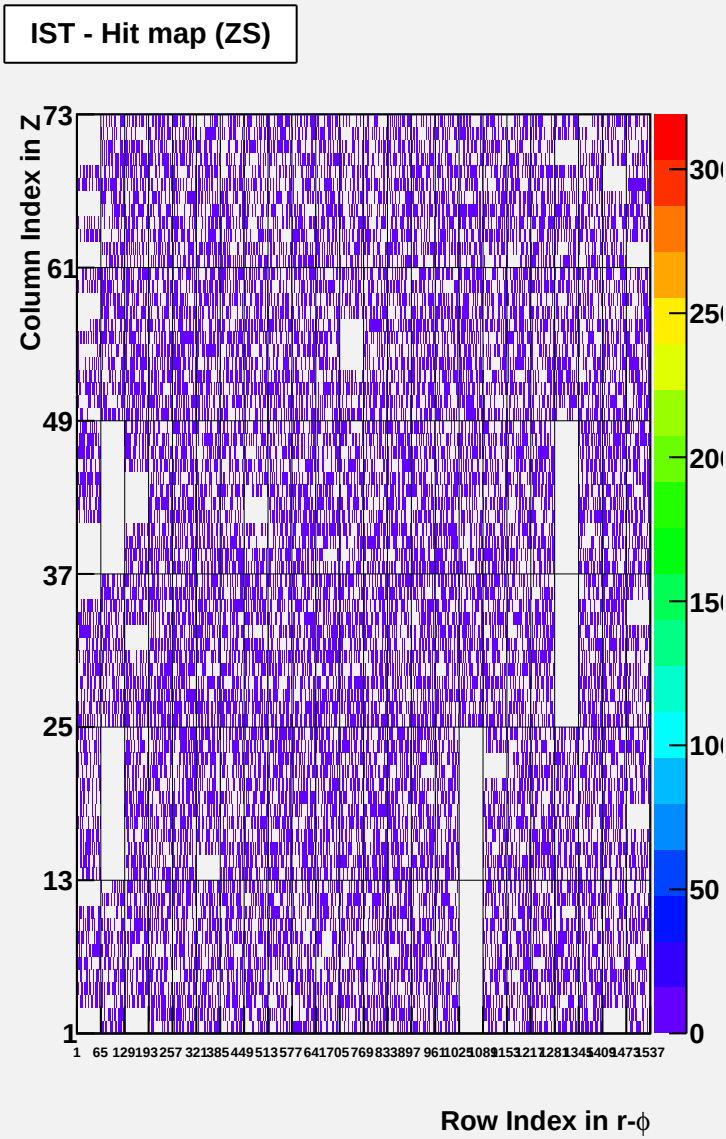

IST - RMS vs Channel
Pedestal RMS [ADC counts]
Channel Geometry ID

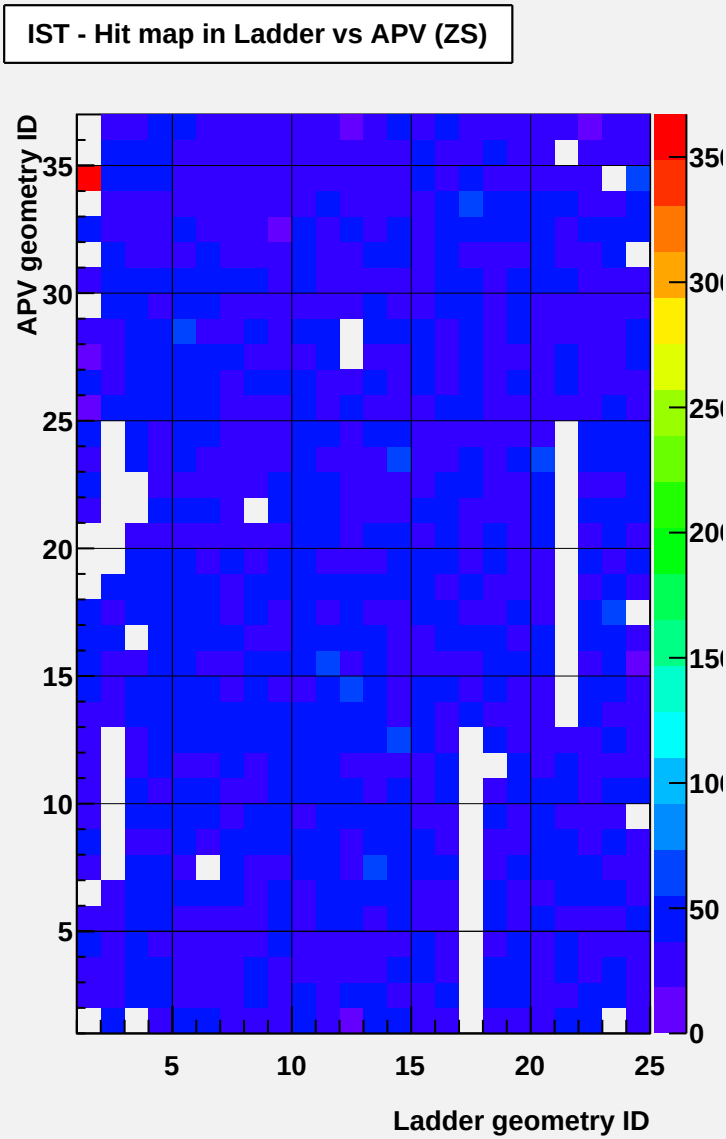

IST - <Mean Pedestal>
MeanPeds
Entries 102615
Mean 863.7
RMS 146.3
You seem to have 420 bad channels that are not masked
Mean Pedestal [ADC counts]

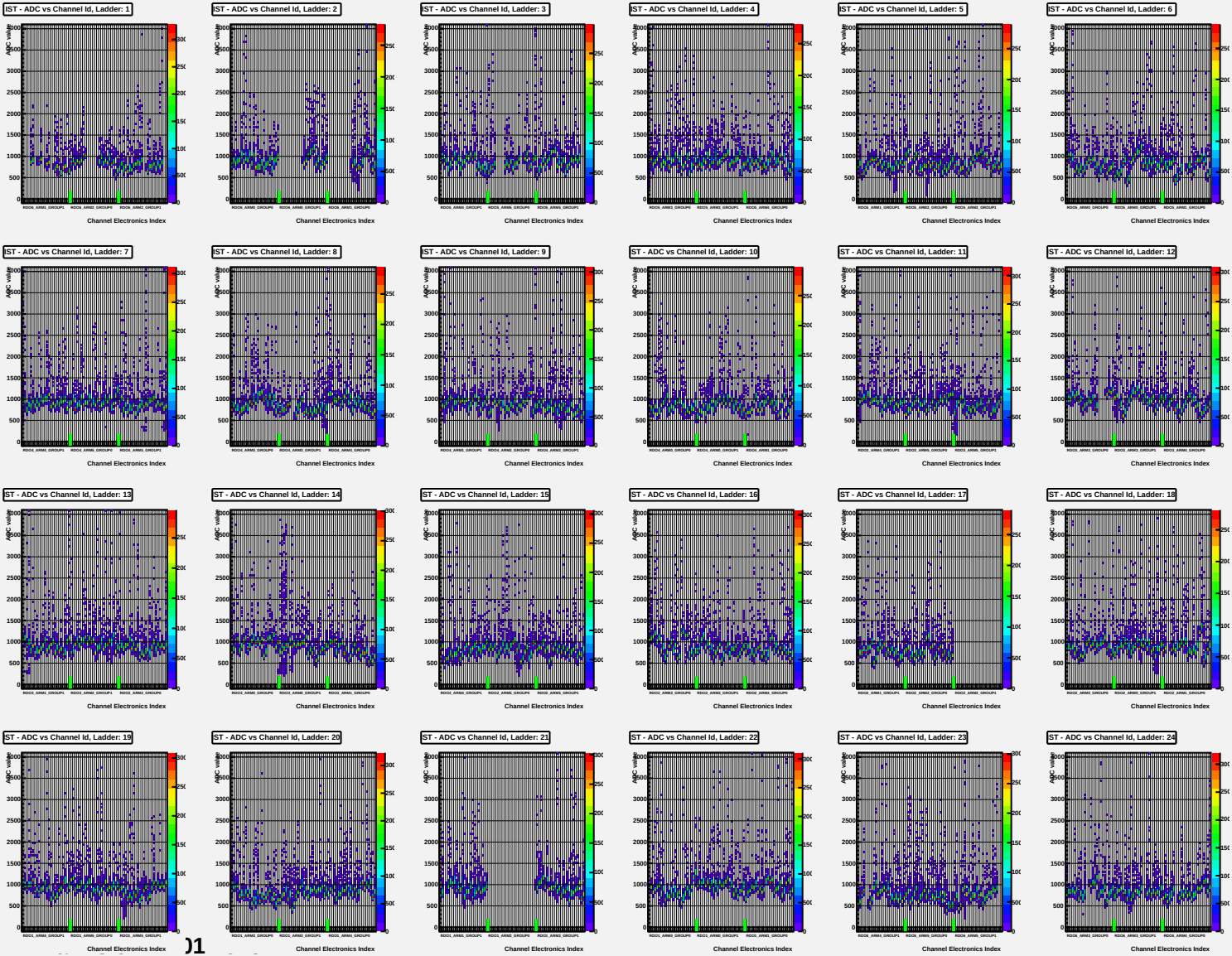

IST - <RMS Pedestal>
MeanRMS
Entries 102615
Mean 18.85
RMS 2.69
RMS pedestal [ADC counts]

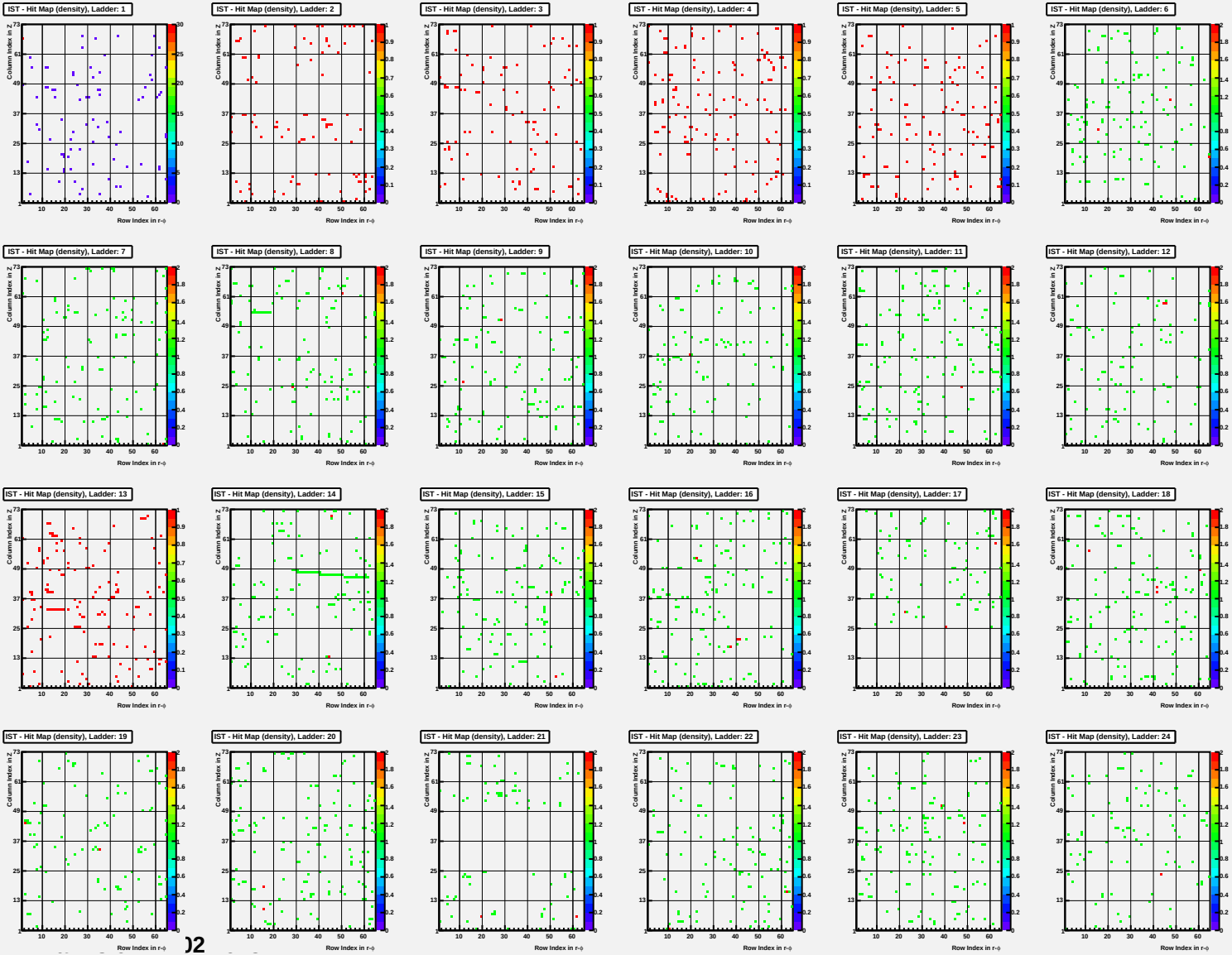

IST - Hit map (non-ZS)
Column Index in Z
Row Index in r-ϕ
1
13
25
37
49
61
73
1 65 129 193 257 321 385 449 513 577 641 705 769 833 897 961 1025 1089 1153 1217 1281 1345 1409 1473 1537
0
5
10
15
20
25
30

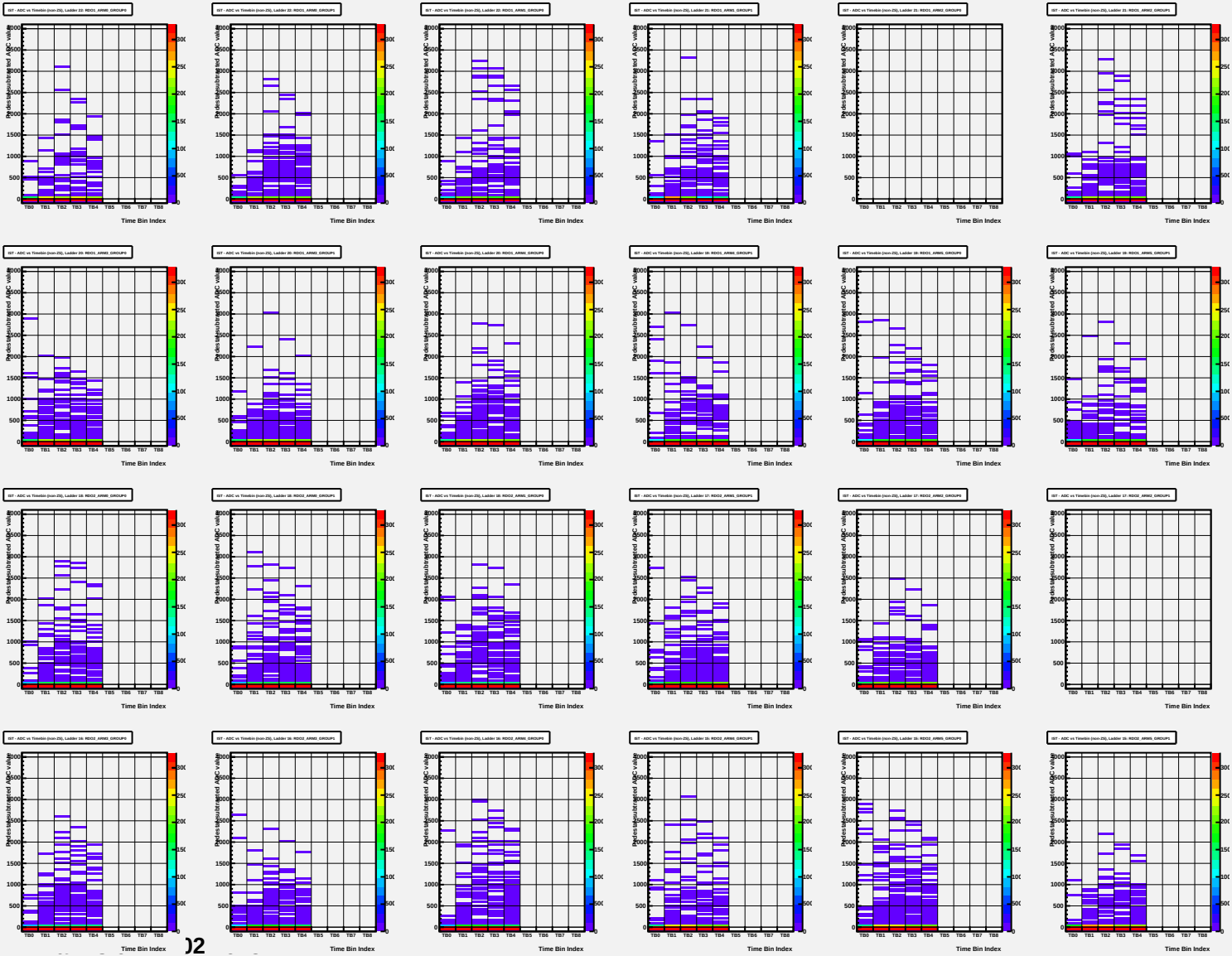

IST - Hit map in Ladder vs APV (non-ZS)
APV geometry ID
Ladder geometry ID
5
10
15
20
25
30
35
0
5
10
15
20
25
30

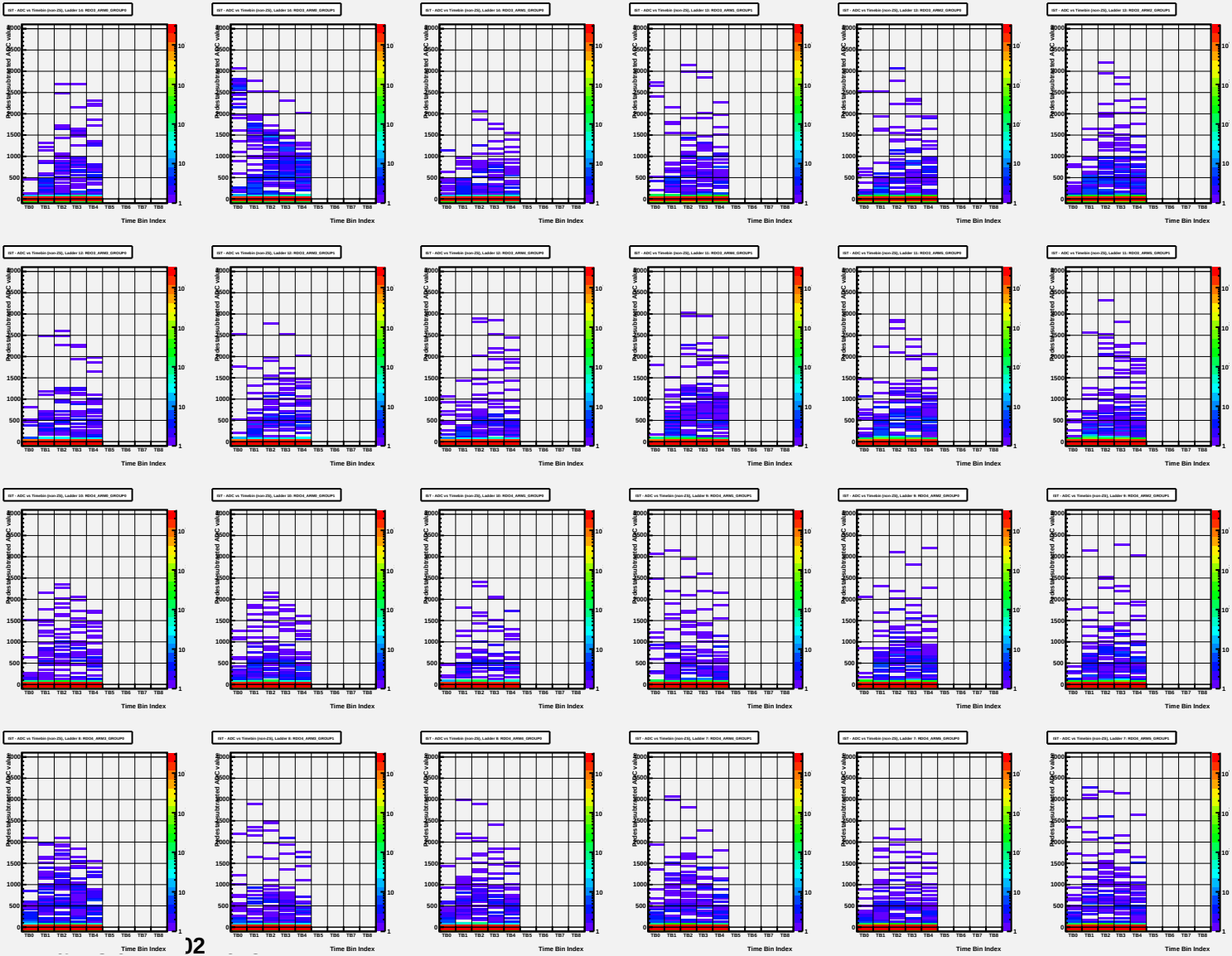

IST - Hit map (ZS)
Column Index in Z
Row Index in r-ϕ

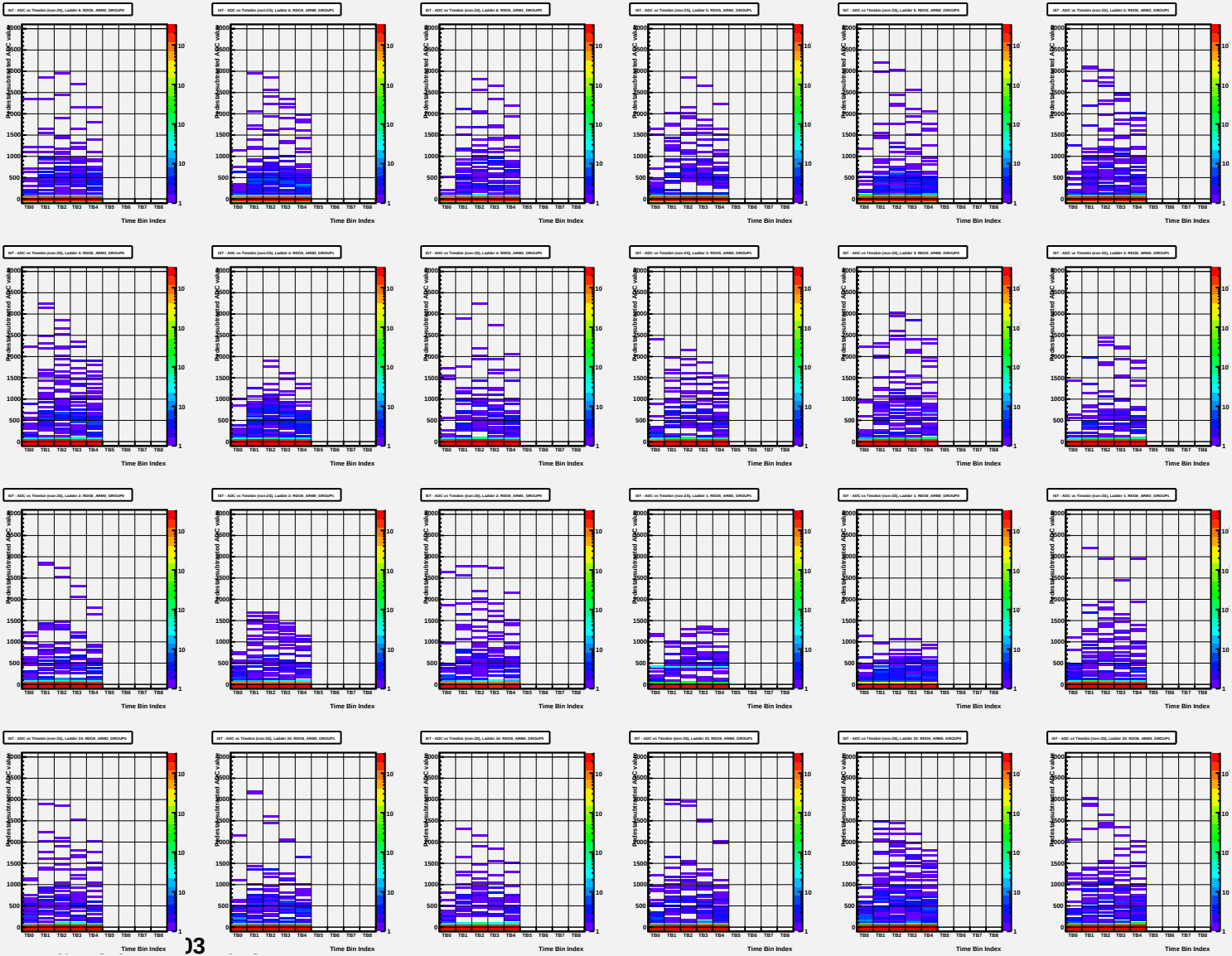

IST - Hit map in Ladder vs APV (ZS)
APV geometry ID
Ladder geometry ID

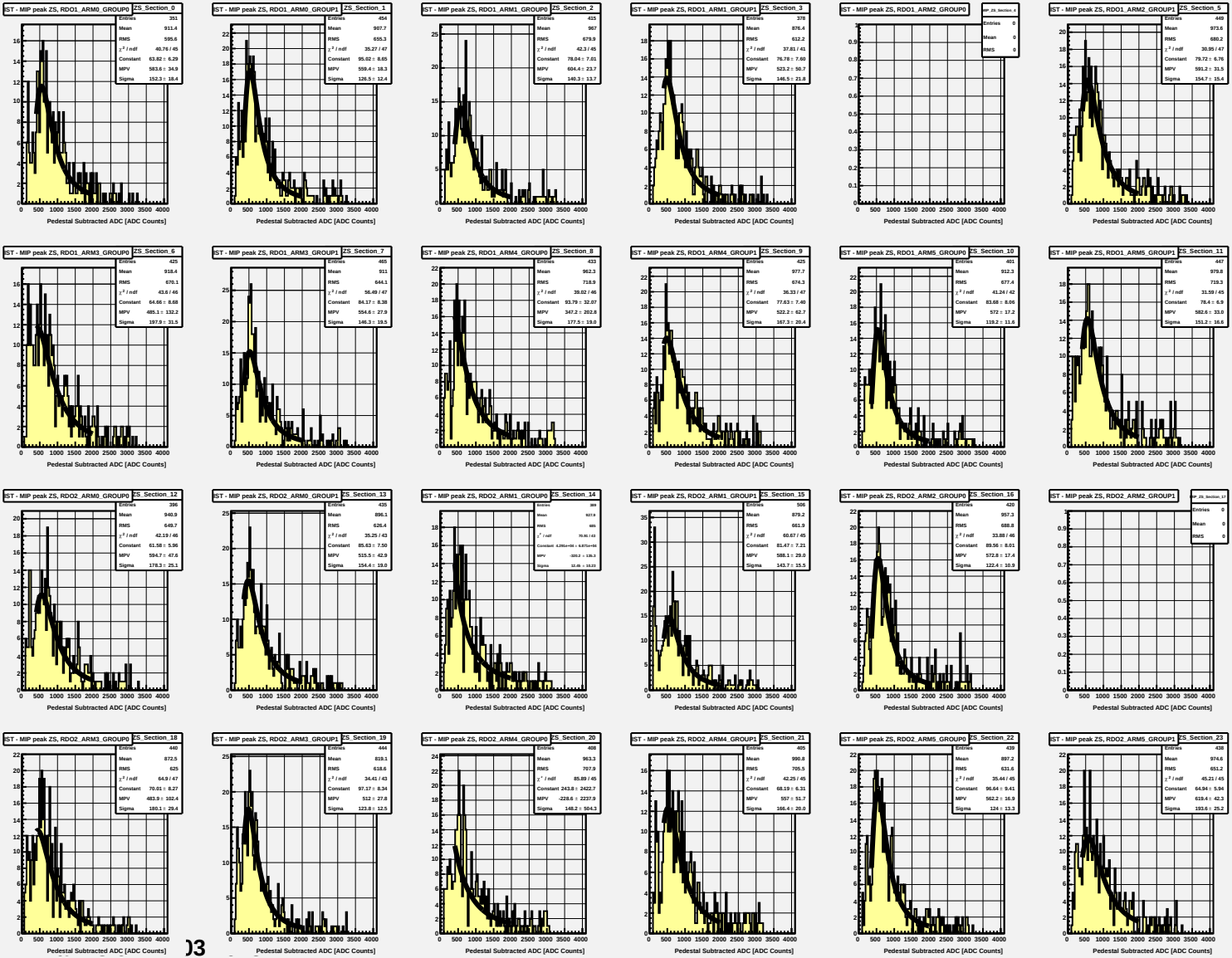

IST - ADC vs Channel Id, Ladder: 1
IST - ADC vs Channel Id, Ladder: 2
IST - ADC vs Channel Id, Ladder: 3
IST - ADC vs Channel Id, Ladder: 4
IST - ADC vs Channel Id, Ladder: 5
IST - ADC vs Channel Id, Ladder: 6
IST - ADC vs Channel Id, Ladder: 7
IST - ADC vs Channel Id, Ladder: 8
IST - ADC vs Channel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

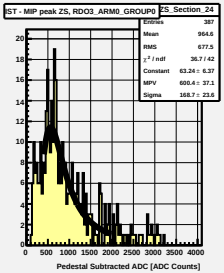

IST - Hit Map (density), Ladder: 1
IST - Hit Map (density), Ladder: 2
IST - Hit Map (density), Ladder: 3
IST - Hit Map (density), Ladder: 4
IST - Hit Map (density), Ladder: 5
IST - Hit Map (density), Ladder: 6
IST - Hit Map (density), Ladder: 7
IST - Hit Map (density), Ladder: 8
IST - Hit Map (density),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

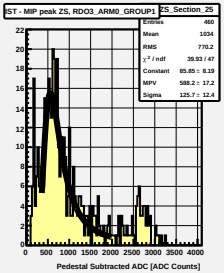

Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8

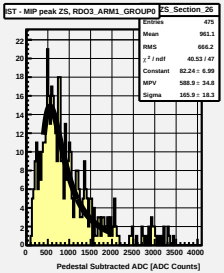

IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM0_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM1_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM2_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM2_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 12: RDO3_ARM3_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 12: RDO3_ARM3_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 12: RDO4_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO4_ARM0_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO4_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO4_ARM1_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM2_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM2_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM3_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM3_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO5_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO5_ARM0_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO5_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO5_ARM1_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO5_ARM2_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO5_ARM2_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO5_ARM3_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO5_ARM3_GROUP1
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8

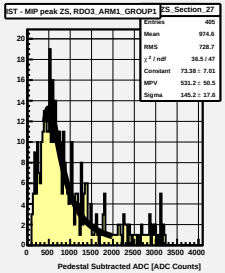

IST : ADC vs Timebin (non-ZS), Ladder 6: RD09_ARM9_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 6: RD09_ARM9_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 6: RD09_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RD09_ARM1_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 5: RD09_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RD09_ARM2_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 4: RD09_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 4: RD09_ARM3_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 4: RD09_ARM4_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RD09_ARM4_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 3: RD09_ARM5_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RD09_ARM5_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 2: RD09_ARM6_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 2: RD09_ARM6_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 2: RD09_ARM7_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RD09_ARM7_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 1: RD09_ARM8_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RD09_ARM8_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 24: RD09_ARM9_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 24: RD09_ARM9_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 24: RD09_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RD09_ARM1_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 23: RD09_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RD09_ARM2_GROUP1
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8

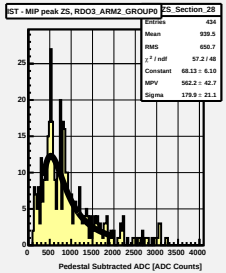

IST - MIP peak ZS, RDO1_ARM0_GROUP0
ZS_Section_0
Entries 351
Mean 911.4
RMS 595.6
χ² / ndf 40.76 / 45
Constant 63.82 ± 6.29
MPV 583.6 ± 34.9
Sigma 152.3 ± 18.4
IST - MIP peak ZS, RDO1_ARM0_GROUP1
ZS_Section_1
Entries 454
Mean 907.7
RMS 655.3
χ² / ndf 35.27 / 47
Constant 95.02 ± 8.65
MPV 559.4 ± 18.3
Sigma 126.5 ± 12.4
IST - MIP peak ZS, RDO1_ARM1_GROUP0
ZS_Section_2
Entries 415
Mean 967
RMS 679.9
χ² / ndf 42.3 / 45
Constant 78.04 ± 7.01
MPV 604.4 ± 23.7
Sigma 140.3 ± 13.7
IST - MIP peak ZS, RDO1_ARM1_GROUP1
ZS_Section_3
Entries 378
Mean 876.4
RMS 612.2
χ² / ndf 37.81 / 41
Constant 76.78 ± 7.60
MPV 523.2 ± 50.7
Sigma 146.5 ± 21.8
IST - MIP peak ZS, RDO1_ARM2_GROUP0
MIP_ZS_Section_4
Entries 0
Mean 0
RMS 0
IST - MIP peak ZS, RDO1_ARM2_GROUP1
ZS_Section_5
Entries 449
Mean 973.6
RMS 680.2
χ² / ndf 30.95 / 47
Constant 79.72 ± 6.76
MPV 591.2 ± 31.5
Sigma 154.7 ± 15.4
IST - MIP peak ZS, RDO1_ARM3_GROUP0
ZS_Section_6
Entries 425
Mean 918.4
RMS 670.1
χ² / ndf 43.6 / 46
Constant 64.66 ± 8.68
MPV 485.1 ± 132.2
Sigma 197.9 ± 31.5
IST - MIP peak ZS, RDO1_ARM3_GROUP1
ZS_Section_7
Entries 465
Mean 911
RMS 644.1
χ² / ndf 56.49 / 47
Constant 84.17 ± 8.38
MPV 554.6 ± 27.9
Sigma 146.3 ± 19.5
IST - MIP peak ZS, RDO1_ARM4_GROUP0
ZS_Section_8
Entries 433
Mean 962.3
RMS 718.9
χ² / ndf 39.02 / 46
Constant 93.79 ± 32.07
MPV 347.2 ± 202.8
Sigma 177.5 ± 19.0
IST - MIP peak ZS, RDO1_ARM4_GROUP1
ZS_Section_9
Entries 425
Mean 977.7
RMS 674.3
χ² / ndf 36.33 / 47
Constant 77.63 ± 7.40
MPV 522.2 ± 62.7
Sigma 167.3 ± 20.4
IST - MIP peak ZS, RDO1_ARM5_GROUP0
ZS_Section_10
Entries 401
Mean 912.3
RMS 677.4
χ² / ndf 41.24 / 42
Constant 83.68 ± 8.06
MPV 572 ± 17.2
Sigma 119.2 ± 11.6
IST - MIP peak ZS, RDO1_ARM5_GROUP1
ZS_Section_11
Entries 447
Mean 979.8
RMS 719.3
χ² / ndf 31.59 / 45
Constant 78.4 ± 6.9
MPV 582.6 ± 33.0
Sigma 151.2 ± 16.6
IST - MIP peak ZS, RDO2_ARM0_GROUP0
ZS_Section_12
Entries 396
Mean 940.9
RMS 649.7
χ² / ndf 42.19 / 46
Constant 61.58 ± 5.96
MPV 594.7 ± 47.6
Sigma 178.3 ± 25.1
IST - MIP peak ZS, RDO2_ARM0_GROUP1
ZS_Section_13
Entries 435
Mean 896.1
RMS 626.4
χ² / ndf 35.25 / 43
Constant 85.63 ± 7.50
MPV 515.5 ± 42.9
Sigma 154.4 ± 19.0
IST - MIP peak ZS, RDO2_ARM1_GROUP0
ZS_Section_14
Entries 369
Mean 927.7
RMS 685
χ² / ndf 70.90 / 43
Constant 4.295e+06 ± 6.875e+06
MPV -3202.2 ± 139.3
Sigma 12.06 ± 10.22
IST - MIP peak ZS, RDO2_ARM1_GROUP1
ZS_Section_15
Entries 506
Mean 979.2
RMS 661.9
χ² / ndf 60.67 / 45
Constant 81.47 ± 7.21
MPV 588.1 ± 29.0
Sigma 143.7 ± 15.5
IST - MIP peak ZS, RDO2_ARM2_GROUP0
ZS_Section_16
Entries 429
Mean 957.3
RMS 688.8
χ² / ndf 33.88 / 46
Constant 89.56 ± 8.01
MPV 572.8 ± 17.4
Sigma 122.4 ± 10.9
IST - MIP peak ZS, RDO2_ARM2_GROUP1
MIP_ZS_Section_17
Entries 0
Mean 0
RMS 0
IST - MIP peak ZS, RDO2_ARM3_GROUP0
ZS_Section_18
Entries 440
Mean 872.5
RMS 625
χ² / ndf 64.9 / 47
Constant 70.01 ± 8.27
MPV 483.9 ± 102.4
Sigma 180.1 ± 29.4
IST - MIP peak ZS, RDO2_ARM3_GROUP1
ZS_Section_19
Entries 444
Mean 819.1
RMS 618.6
χ² / ndf 34.41 / 43
Constant 97.17 ± 8.34
MPV 512 ± 27.8
Sigma 123.8 ± 12.5
IST - MIP peak ZS, RDO2_ARM4_GROUP0
ZS_Section_20
Entries 409
Mean 963.3
RMS 707.9
χ² / ndf 85.89 / 45
Constant 243.8 ± 2422.7
MPV -228.6 ± 2237.9
Sigma 148.2 ± 504.3
IST - MIP peak ZS, RDO2_ARM4_GROUP1
ZS_Section_21
Entries 405
Mean 990.8
RMS 705.5
χ² / ndf 42.25 / 45
Constant 68.19 ± 6.31
MPV 557 ± 51.7
Sigma 166.4 ± 20.0
IST - MIP peak ZS, RDO2_ARM5_GROUP0
ZS_Section_22
Entries 439
Mean 897.2
RMS 631.6
χ² / ndf 35.44 / 45
Constant 96.64 ± 9.41
MPV 562.2 ± 16.9
Sigma 124 ± 13.3
IST - MIP peak ZS, RDO2_ARM5_GROUP1
ZS_Section_23
Entries 438
Mean 974.6
RMS 651.2
χ² / ndf 45.21 / 45
Constant 64.94 ± 5.94
MPV 619.4 ± 42.3
Sigma 193.6 ± 25.2
Pedestal Subtracted ADC [ADC Counts]

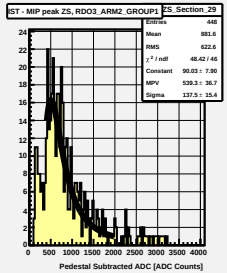

IST - MIP peak ZS, RDO3_ARM0_GROUP0
ZS_Section_24
Entries 387
Mean 954.6
RMS 677.5
χ² / ndf 36.7 / 42
Constant 63.24 ± 6.37
MPV 600.4 ± 37.1
Sigma 168.7 ± 23.6
Pedestal Subtracted ADC [ADC Counts]

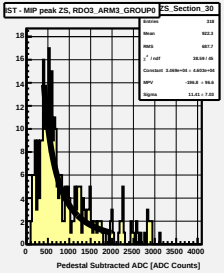

IST - MIP peak ZS, RDO3_ARM0_GROUP1
ZS_Section_25
Entries 460
Mean 1034
RMS 770.2
χ² / ndf 39.93 / 47
Constant 85.85 ± 8.19
MPV 588.2 ± 17.2
Sigma 125.7 ± 12.4
Pedestal Subtracted ADC [ADC Counts]

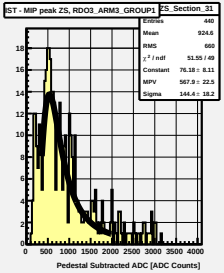

IST - MIP peak ZS, RDO3_ARM1_GROUP0
ZS_Section_26
Entries 475
Mean 961.1
RMS 664.2
χ² / ndf 40.53 / 47
Constant 82.24 ± 6.99
MPV 588.9 ± 34.8
Sigma 165.9 ± 18.3
Pedestal Subtracted ADC [ADC Counts]

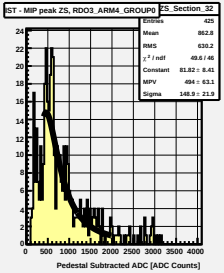

IST - MIP peak ZS, RDO3_ARM1_GROUP1
ZS_Section_27
Entries 405
Mean 974.6
RMS 728.7
χ² / ndf 36.5 / 47
Constant 73.38 ± 7.01
MPV 531.2 ± 50.5
Sigma 145.2 ± 17.6
Pedestal Subtracted ADC [ADC Counts]

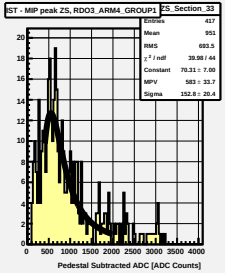

IST - MIP peak ZS, RDO3_ARM2_GROUP0
ZS_Section_28
Entries 434
Mean 939.5
RMS 650.7
χ² / ndf 57.2 / 48
Constant 68.13 ± 6.10
MPV 562.2 ± 42.7
Sigma 179.9 ± 21.1
Pedestal Subtracted ADC [ADC Counts]

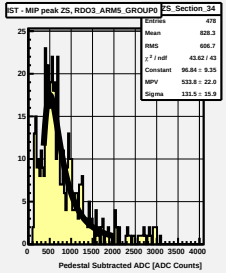

IST - MIP peak ZS, RDO3_ARM2_GROUP1
ZS_Section_29
Entries 448
Mean 881.6
RMS 622.6
χ² / ndf 48.42 / 46
Constant 90.03 ± 7.90
MPV 539.3 ± 36.7
Sigma 137.5 ± 15.4
Pedestal Subtracted ADC [ADC Counts]

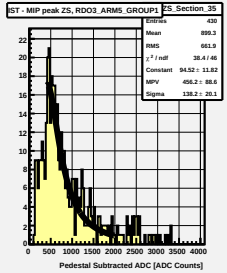

IST - MIP peak ZS, RDO3_ARM3_GROUP0
ZS_Section_30
Entries 318
Mean 821.1
RMS 627.7
χ² / ndf 18.50 / 45
Constant 3.069e+04 ± 4.603e+04
MPV -196.8 ± 99.8
Sigma 11.41 ± 7.43
Pedestal Subtracted ADC [ADC Counts]

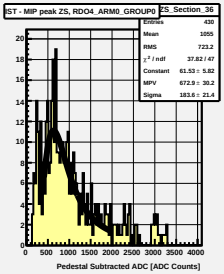

IST - MIP peak ZS, RDO3_ARM3_GROUP1
ZS_Section_31
Entries 440
Mean 924.6
RMS 660
χ² / ndf 51.55 / 49
Constant 76.18 ± 8.11
MPV 567.9 ± 22.5
Sigma 144.4 ± 18.2
Pedestal Subtracted ADC [ADC Counts]

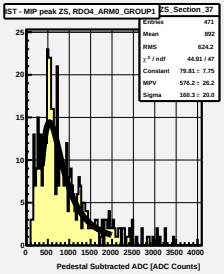

IST - MIP peak ZS, RDO3_ARM4_GROUP0
ZS_Section_32
Entries 425
Mean 862.8
RMS 630.2
χ² / ndf 49.6 / 46
Constant 81.82 ± 8.41
MPV 494 ± 63.1
Sigma 148.9 ± 21.9
Pedestal Subtracted ADC [ADC Counts]

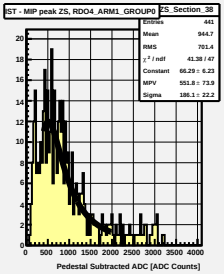

IST - MIP peak ZS, RDO3_ARM4_GROUP1
ZS_Section_33
Entries 417
Mean 951
RMS 693.5
χ² / ndf 39.98 / 44
Constant 70.31 ± 7.00
MPV 583 ± 33.7
Sigma 152.8 ± 20.4
Pedestal Subtracted ADC [ADC Counts]

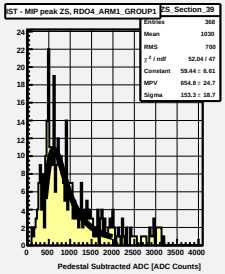

IST - MIP peak ZS, RDO3_ARM5_GROUP0
ZS_Section_34
Entries 478
Mean 828.3
RMS 606.7
χ² / ndf 43.62 / 43
Constant 96.84 ± 9.35
MPV 533.8 ± 22.0
Sigma 131.5 ± 15.9
Pedestal Subtracted ADC [ADC Counts]

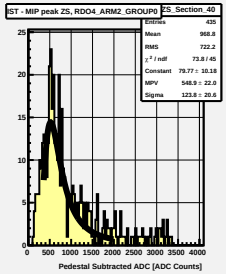

IST - MIP peak ZS, RDO3_ARM5_GROUP1
ZS_Section_35
Entries 430
Mean 899.3
RMS 661.9
χ² / ndf 38.4 / 46
Constant 94.52 ± 11.82
MPV 456.2 ± 88.6
Sigma 138.2 ± 20.1
Pedestal Subtracted ADC [ADC Counts]

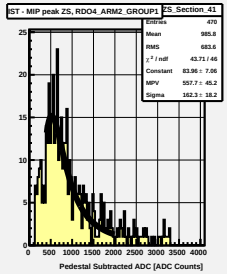

IST - MIP peak ZS, RDO4_ARM0_GROUP0
ZS_Section_36
Entries 439
Mean 1055
RMS 723.2
χ² / ndf 37.82 / 47
Constant 61.53 ± 5.82
MPV 672.9 ± 30.2
Sigma 183.6 ± 21.4
Pedestal Subtracted ADC [ADC Counts]

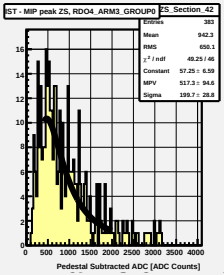

IST - MIP peak ZS, RDO4_ARM0_GROUP1
ZS_Section_37
Entries 471
Mean 892
RMS 624.2
χ² / ndf 44.91 / 47
Constant 79.81 ± 7.75
MPV 576.2 ± 26.2
Sigma 160.3 ± 20.0
Pedestal Subtracted ADC [ADC Counts]

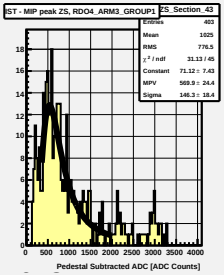

IST - MIP peak ZS, RDO4_ARM1_GROUP0
ZS_Section_38
Entries 441
Mean 944.7
RMS 701.4
χ² / ndf 41.38 / 47
Constant 66.29 ± 6.23
MPV 551.8 ± 73.9
Sigma 186.1 ± 22.2
Pedestal Subtracted ADC [ADC Counts]

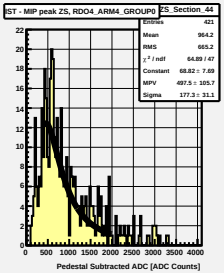

IST - MIP peak ZS, RDO4_ARM1_GROUP1
ZS_Section_39
Entries 368
Mean 1030
RMS 700
χ² / ndf 52.04 / 47
Constant 59.44 ± 6.61
MPV 654.8 ± 24.7
Sigma 153.3 ± 18.7
Pedestal Subtracted ADC [ADC Counts]

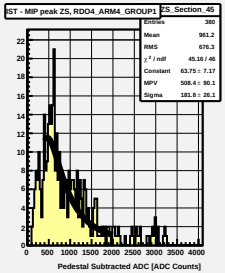

IST - MIP peak ZS, RDO4_ARM2_GROUP0
ZS_Section_40
Entries 435
Mean 968.8
RMS 722.2
χ² / ndf 73.8 / 45
Constant 79.77 ± 10.18
MPV 548.9 ± 22.0
Sigma 123.8 ± 20.6
Pedestal Subtracted ADC [ADC Counts]

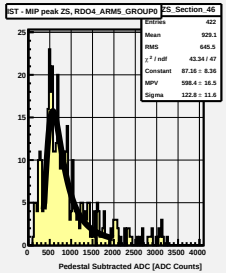

IST - MIP peak ZS, RDO4_ARM2_GROUP1
ZS_Section_41
Entries 479
Mean 985.8
RMS 683.6
χ² / ndf 43.71 / 46
Constant 83.96 ± 7.06
MPV 557.7 ± 45.2
Sigma 162.3 ± 18.2
Pedestal Subtracted ADC [ADC Counts]

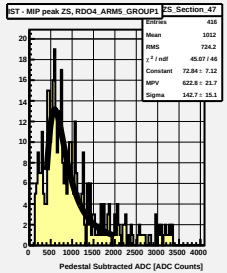

IST - MIP peak ZS, RDO4_ARM3_GROUP0
ZS_Section_42
Entries 385
Mean 942.3
RMS 650.1
χ² / ndf 49.25 / 46
Constant 57.25 ± 6.59
MPV 517.3 ± 94.6
Sigma 199.7 ± 29.8
Pedestal Subtracted ADC [ADC Counts]

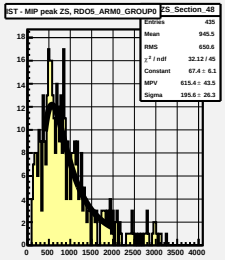

IST - MIP peak ZS, RDO4_ARM3_GROUP1
ZS_Section_43
Entries 460
Mean 1025
RMS 776.5
χ² / ndf 31.13 / 45
Constant 71.12 ± 7.43
MPV 569.9 ± 24.4
Sigma 146.3 ± 18.4
Pedestal Subtracted ADC [ADC Counts]

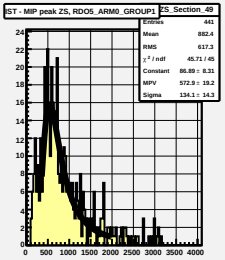

IST - MIP peak ZS, RDO4_ARM4_GROUP0
ZS_Section_44
Entries 447
Mean 964.2
RMS 665.2
χ² / ndf 64.89 / 47
Constant 68.82 ± 7.69
MPV 497.5 ± 105.7
Sigma 177.3 ± 31.1
Pedestal Subtracted ADC [ADC Counts]

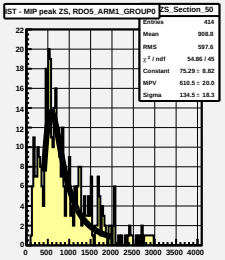

IST - MIP peak ZS, RDO4_ARM4_GROUP1
ZS_Section_45
Entries 380
Mean 961.2
RMS 676.3
χ² / ndf 45.16 / 46
Constant 63.75 ± 7.17
MPV 508.4 ± 90.1
Sigma 181.8 ± 26.1
Pedestal Subtracted ADC [ADC Counts]

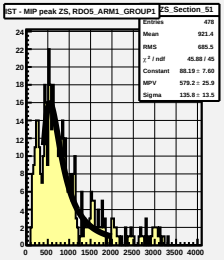

IST - MIP peak ZS, RDO4_ARM5_GROUP0
ZS_Section_46
Entries 422
Mean 929.1
RMS 645.5
χ² / ndf 43.34 / 47
Constant 87.16 ± 8.36
MPV 598.4 ± 16.5
Sigma 122.8 ± 11.6
Pedestal Subtracted ADC [ADC Counts]

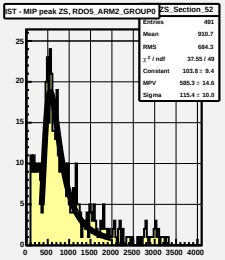

IST - MIP peak ZS, RDO4_ARM5_GROUP1
ZS_Section_47
Entries 434
Mean 1012
RMS 724.2
χ² / ndf 45.07 / 46
Constant 72.84 ± 7.12
MPV 622.8 ± 21.7
Sigma 142.7 ± 15.1
Pedestal Subtracted ADC [ADC Counts]

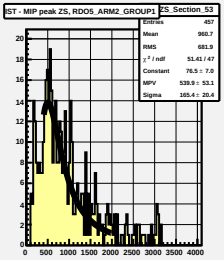

IST - MIP peak ZS, RDO5_ARM0_GROUP0
ZS_Section_48
Entries 435
Mean 945.5
RMS 655.6
χ² / ndf 32.12 / 45
Constant 67.4 ± 6.1
MPV 615.4 ± 43.5
Sigma 195.6 ± 26.3
Pedestal Subtracted ADC [ADC Counts]

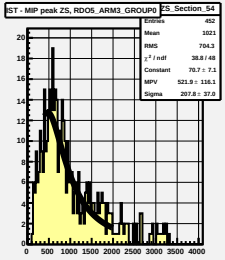

IST - MIP peak ZS, RDO5_ARM0_GROUP1
ZS_Section_49
Entries 441
Mean 882.4
RMS 617.3
χ² / ndf 45.71 / 45
Constant 86.89 ± 8.31
MPV 572.9 ± 19.2
Sigma 134.1 ± 14.3
Pedestal Subtracted ADC [ADC Counts]

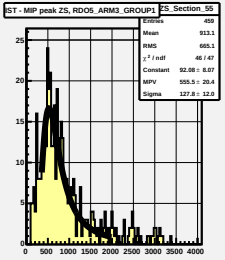

IST - MIP peak ZS, RDO5_ARM1_GROUP0
ZS_Section_50
Entries 414
Mean 908.8
RMS 597.6
χ² / ndf 54.86 / 45
Constant 75.29 ± 8.82
MPV 610.5 ± 20.0
Sigma 134.5 ± 18.3
Pedestal Subtracted ADC [ADC Counts]

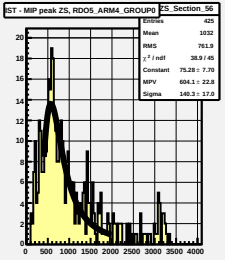

IST - MIP peak ZS, RDO5_ARM1_GROUP1
ZS_Section_51
Entries 478
Mean 921.4
RMS 685.5
χ² / ndf 45.88 / 45
Constant 88.19 ± 7.60
MPV 579.2 ± 25.9
Sigma 135.8 ± 13.5
Pedestal Subtracted ADC [ADC Counts]

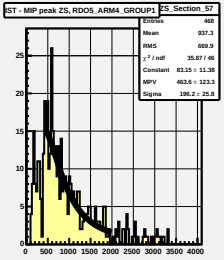

IST - MIP peak ZS, RDO5_ARM2_GROUP0
ZS_Section_52
Entries 491
Mean 910.7
RMS 684.3
χ² / ndf 37.55 / 49
Constant 103.8 ± 9.4
MPV 585.3 ± 14.6
Sigma 115.4 ± 10.0
Pedestal Subtracted ADC [ADC Counts]

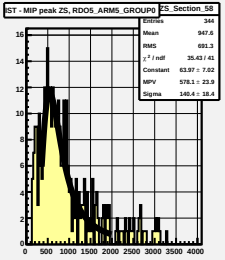

IST - MIP peak ZS, RDO5_ARM2_GROUP1
ZS_Section_53
Entries 457
Mean 960.7
RMS 683.9
χ² / ndf 51.41 / 47
Constant 76.5 ± 7.0
MPV 539.9 ± 53.1
Sigma 165.4 ± 20.4
Pedestal Subtracted ADC [ADC Counts]

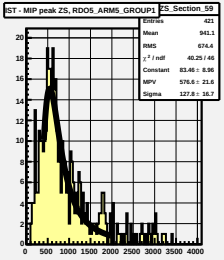

IST - MIP peak ZS, RDO5_ARM3_GROUP0
ZS_Section_54
Entries 452
Mean 1021
RMS 704.3
χ² / ndf 38.8 / 48
Constant 70.7 ± 7.1
MPV 521.9 ± 116.1
Sigma 207.8 ± 37.0
Pedestal Subtracted ADC [ADC Counts]

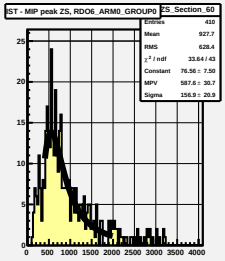

IST - MIP peak ZS, RDO5_ARM3_GROUP1
ZS_Section_55
Entries 459
Mean 913.1
RMS 665.1
χ² / ndf 46 / 47
Constant 92.08 ± 8.07
MPV 555.5 ± 20.4
Sigma 127.8 ± 12.0
Pedestal Subtracted ADC [ADC Counts]

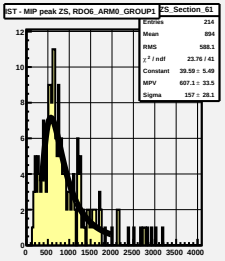

IST - MIP peak ZS, RDO5_ARM4_GROUP0
ZS_Section_56
Entries 425
Mean 1032
RMS 761.9
χ² / ndf 38.9 / 45
Constant 75.28 ± 7.70
MPV 604.1 ± 22.8
Sigma 140.3 ± 17.0
Pedestal Subtracted ADC [ADC Counts]

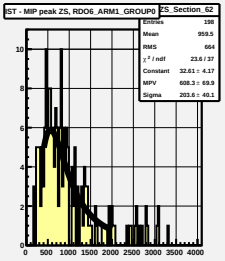

IST - MIP peak ZS, RDO5_ARM4_GROUP1
ZS_Section_57
Entries 468
Mean 937.3
RMS 669.9
χ² / ndf 35.87 / 46
Constant 83.15 ± 11.38
MPV 463.6 ± 123.3
Sigma 196.2 ± 25.8
Pedestal Subtracted ADC [ADC Counts]

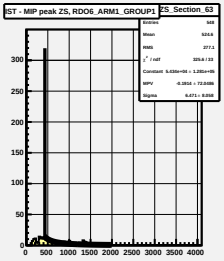

IST - MIP peak ZS, RDO5_ARM5_GROUP0
ZS_Section_58
Entries 344
Mean 947.6
RMS 691.3
χ² / ndf 35.43 / 41
Constant 63.97 ± 7.02
MPV 578.1 ± 23.9
Sigma 140.4 ± 18.4
Pedestal Subtracted ADC [ADC Counts]

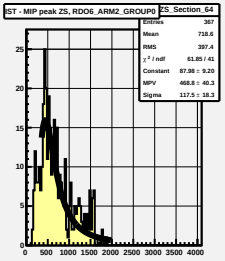

IST - MIP peak ZS, RDO5_ARM5_GROUP1
ZS_Section_59
Entries 421
Mean 941.1
RMS 674.4
χ² / ndf 40.25 / 46
Constant 83.46 ± 8.96
MPV 576.6 ± 21.6
Sigma 127.8 ± 16.7
Pedestal Subtracted ADC [ADC Counts]

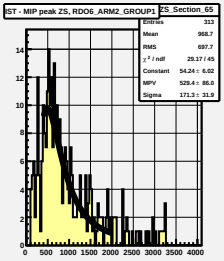

IST - MIP peak ZS, RDO6_ARM0_GROUP0
ZS_Section_60
Entries 419
Mean 927.7
RMS 628.4
χ² / ndf 33.64 / 43
Constant 76.56 ± 7.50
MPV 587.6 ± 30.7
Sigma 156.9 ± 20.9
Pedestal Subtracted ADC [ADC Counts]

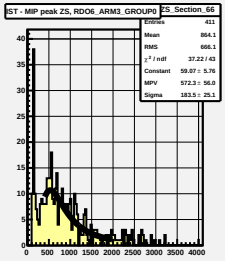

IST - MIP peak ZS, RDO6_ARM0_GROUP1
ZS_Section_61
Entries 214
Mean 894
RMS 588.1
χ² / ndf 23.76 / 41
Constant 39.59 ± 5.49
MPV 607.1 ± 33.5
Sigma 157 ± 28.1
Pedestal Subtracted ADC [ADC Counts]

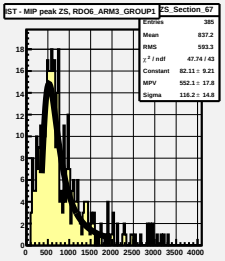

IST - MIP peak ZS, RDO6_ARM1_GROUP0
ZS_Section_62
Entries 198
Mean 959.5
RMS 664
χ² / ndf 23.6 / 37
Constant 32.61 ± 4.17
MPV 608.3 ± 69.9
Sigma 203.6 ± 40.1
Pedestal Subtracted ADC [ADC Counts]

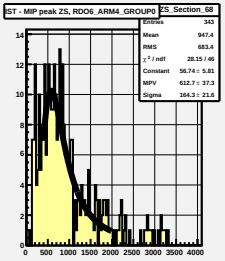

IST - MIP peak ZS, RDO6_ARM1_GROUP1
ZS_Section_63
Entries 348
Mean 524.4
RMS 277.1
χ² / ndf 329.6 / 33
Constant 5.4336e+06 ± 1.285e+05
MPV -0.1816 ± 72.0486
Sigma 6.471 ± 0.058
Pedestal Subtracted ADC [ADC Counts]

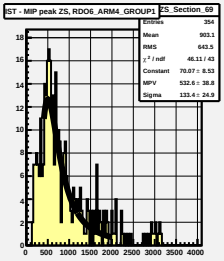

IST - MIP peak ZS, RDO6_ARM2_GROUP0
ZS_Section_64
Entries 367
Mean 718.6
RMS 397.4
χ² / ndf 61.85 / 41
Constant 87.98 ± 9.20
MPV 468.8 ± 40.3
Sigma 117.5 ± 18.3
Pedestal Subtracted ADC [ADC Counts]

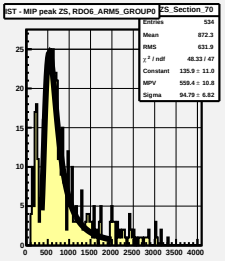

IST - MIP peak ZS, RDO6_ARM2_GROUP1
ZS_Section_65
Entries 313
Mean 968.7
RMS 697.7
χ² / ndf 29.17 / 45
Constant 54.24 ± 6.02
MPV 529.4 ± 86.0
Sigma 171.3 ± 31.9
Pedestal Subtracted ADC [ADC Counts]

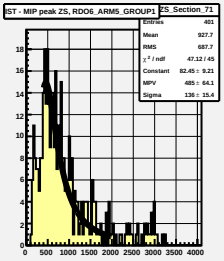

IST - MIP peak ZS, RDO6_ARM3_GROUP0
ZS_Section_66
Entries 417
Mean 864.1
RMS 666.1
χ² / ndf 37.22 / 43
Constant 59.07 ± 5.76
MPV 572.3 ± 56.0
Sigma 183.5 ± 25.1
Pedestal Subtracted ADC [ADC Counts]

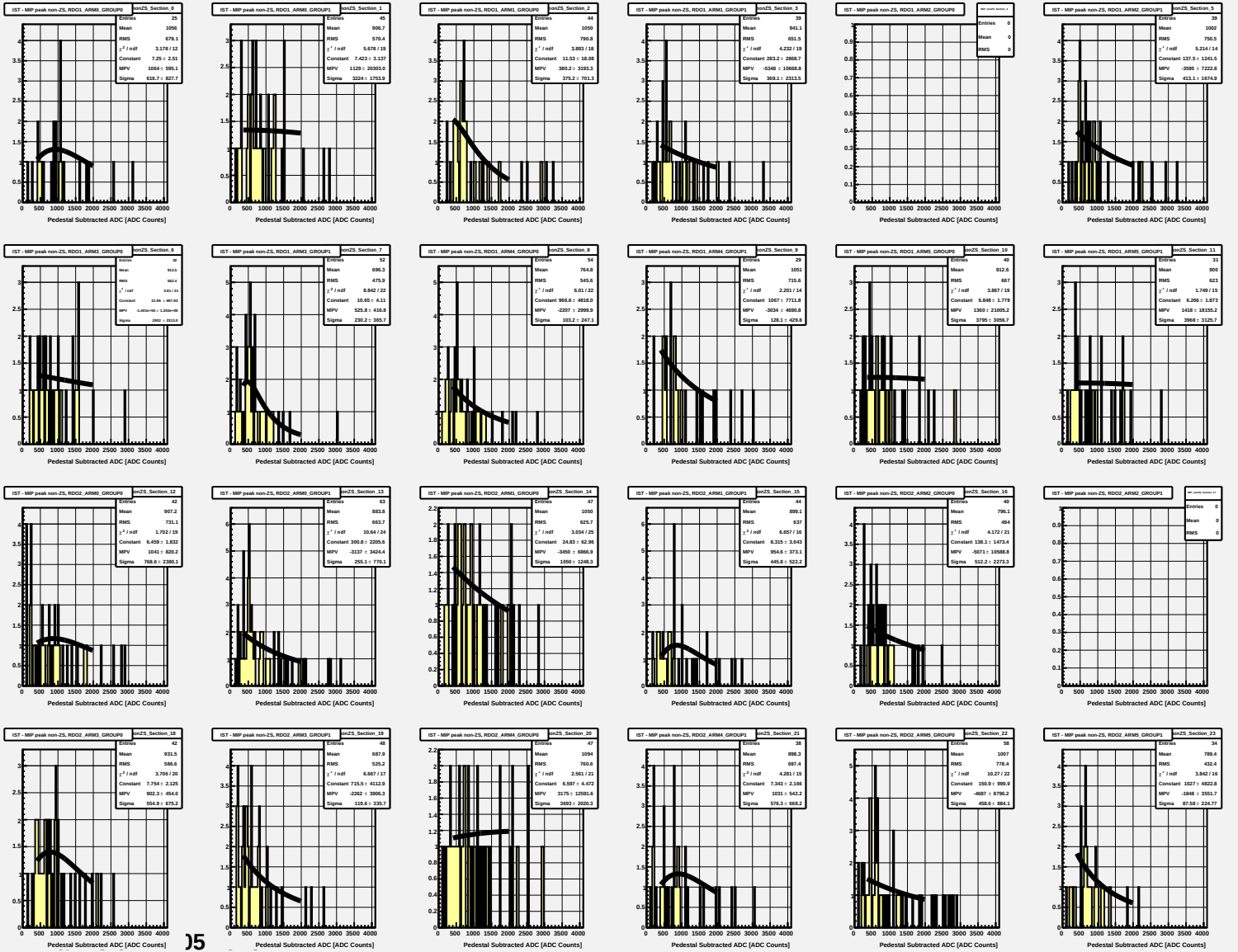

IST - MIP peak ZS, RDO6_ARM3_GROUP1
ZS_Section_67
Entries 386
Mean 837.2
RMS 593.3
χ² / ndf 47.74 / 43
Constant 82.11 ± 9.21
MPV 552.1 ± 17.8
Sigma 116.2 ± 14.8
Pedestal Subtracted ADC [ADC Counts]

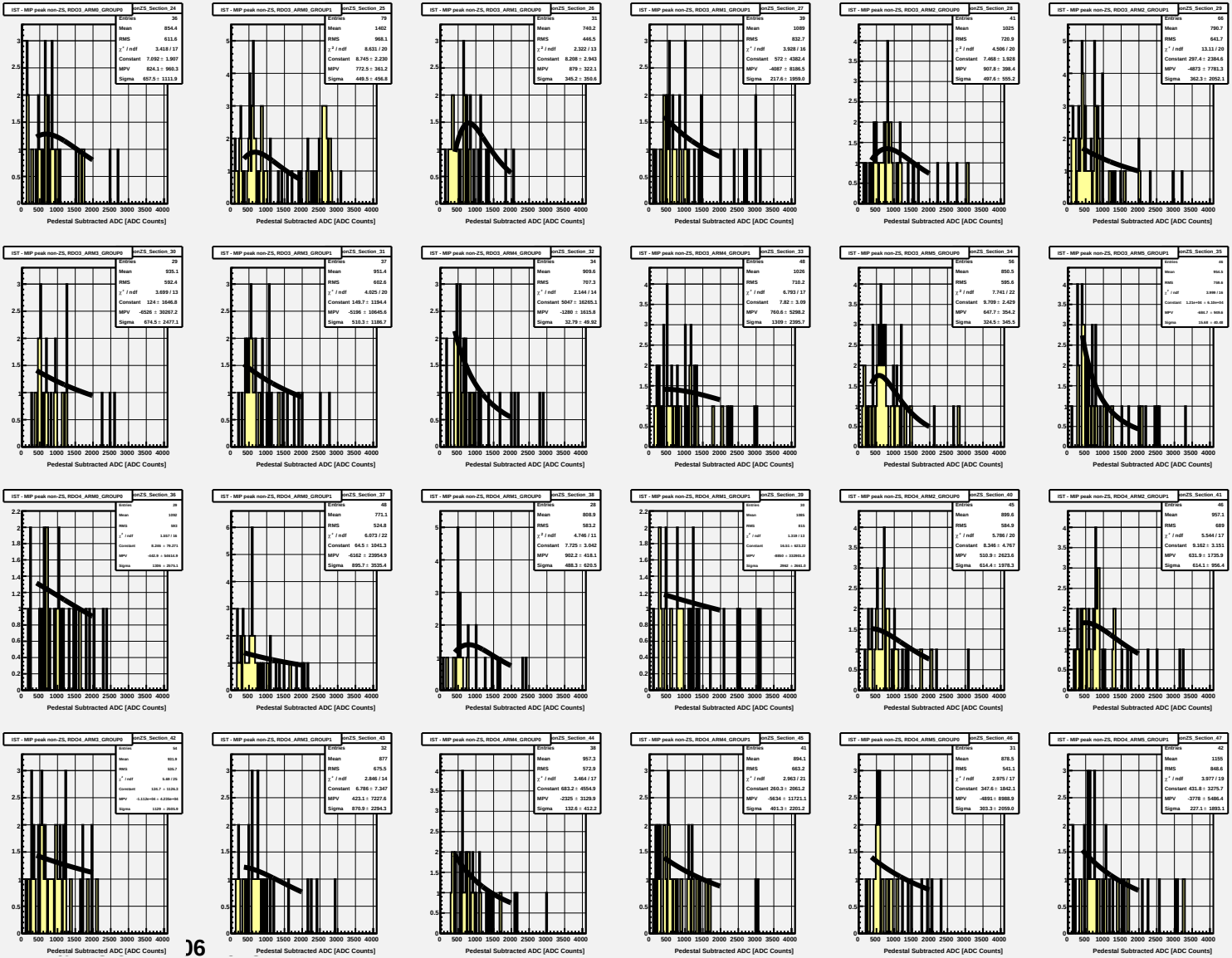

IST - MIP peak ZS, RDO6_ARM4_GROUP0
ZS_Section_68
Entries 340
Mean 947.4
RMS 683.4
χ² / ndf 28.15 / 46
Constant 56.74 ± 5.81
MPV 612.7 ± 37.3
Sigma 164.3 ± 21.6
Pedestal Subtracted ADC [ADC Counts]

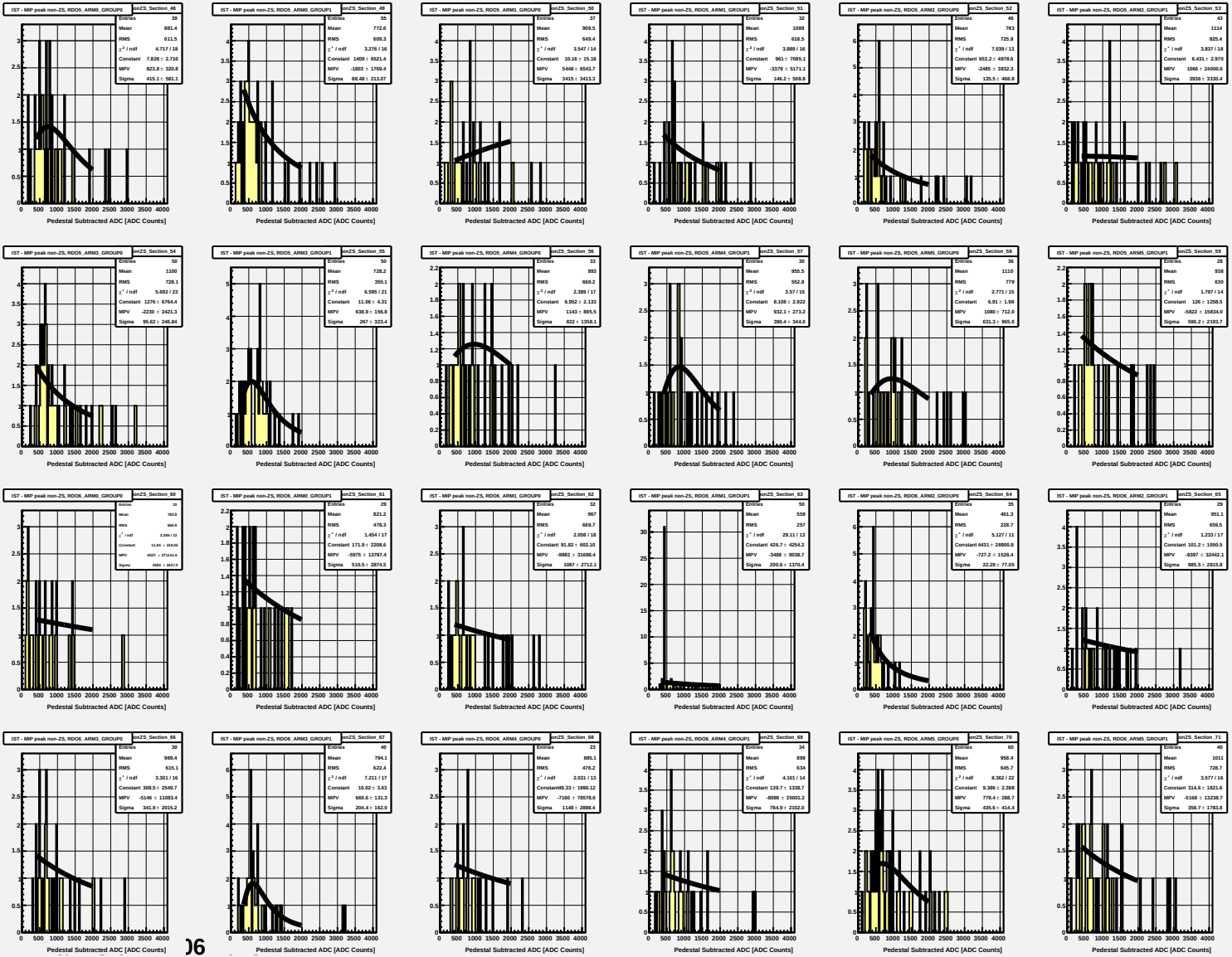

IST - MIP peak ZS, RDO6_ARM4_GROUP1
ZS_Section_69
Entries 354
Mean 903.1
RMS 643.5
χ² / ndf 46.11 / 43
Constant 70.07 ± 8.53
MPV 532.6 ± 38.8
Sigma 133.4 ± 24.9
Pedestal Subtracted ADC [ADC Counts]

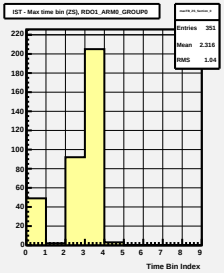

IST - MIP peak ZS, RDO6_ARM5_GROUP0
ZS_Section_70
Entries 534
Mean 872.3
RMS 631.9
χ² / ndf 48.33 / 47
Constant 135.9 ± 11.0
MPV 559.4 ± 10.8
Sigma 94.79 ± 6.82
Pedestal Subtracted ADC [ADC Counts]

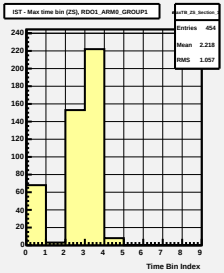

IST - MIP peak ZS, RDO6_ARM5_GROUP1
ZS_Section_71
Entries 485
Mean 927.7
RMS 687.7
χ² / ndf 47.12 / 45
Constant 82.45 ± 9.21
MPV 485 ± 64.1
Sigma 136 ± 15.4
Pedestal Subtracted ADC [ADC Counts]

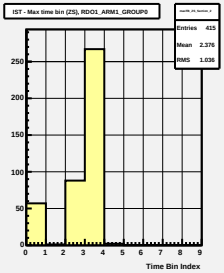

IST - MIP peak non-ZS, RDO1_ARM0_GROUP0
Entries 25
Mean 1056
RMS 679.1
χ² / ndf 3.178 / 12
Constant 7.25 ± 2.51
MPV 1064 ± 595.1
Sigma 616.7 ± 827.7
IST - MIP peak non-ZS, RDO1_ARM0_GROUP1
Entries 45
Mean 906.7
RMS 570.4
χ² / ndf 5.678 / 19
Constant 7.423 ± 3.137
MPV 1129 ± 20303.0
Sigma 3224 ± 1753.9
IST - MIP peak non-ZS, RDO1_ARM1_GROUP0
Entries 44
Mean 1059
RMS 790.8
χ² / ndf 3.893 / 18
Constant 11.53 ± 18.08
MPV 380.2 ± 3193.3
Sigma 375.2 ± 701.3
IST - MIP peak non-ZS, RDO1_ARM1_GROUP1
Entries 39
Mean 941.1
RMS 651.5
χ² / ndf 4.232 / 19
Constant 283.2 ± 2868.7
MPV -5348 ± 18668.8
Sigma 369.1 ± 2313.5
IST - MIP peak non-ZS, RDO1_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
IST - MIP peak non-ZS, RDO1_ARM2_GROUP1
Entries 39
Mean 1002
RMS 750.5
χ² / ndf 5.214 / 14
Constant 137.5 ± 1241.5
MPV -3595 ± 7222.8
Sigma 413.1 ± 1674.9
IST - MIP peak non-ZS, RDO1_ARM3_GROUP0
Entries 49
Mean 913.1
RMS 562.4
χ² / ndf 3.91 / 21
Constant 31.96 ± 697.80
MPV -1.401e+04 ± 1.359e+05
Sigma 2932 ± 2313.0
IST - MIP peak non-ZS, RDO1_ARM3_GROUP1
Entries 52
Mean 696.3
RMS 475.9
χ² / ndf 8.842 / 22
Constant 10.65 ± 4.11
MPV 525.8 ± 416.8
Sigma 230.2 ± 365.7
IST - MIP peak non-ZS, RDO1_ARM4_GROUP0
Entries 54
Mean 764.6
RMS 545.6
χ² / ndf 6.01 / 22
Constant 966.6 ± 4818.0
MPV -2207 ± 2999.9
Sigma 103.2 ± 247.1
IST - MIP peak non-ZS, RDO1_ARM4_GROUP1
Entries 29
Mean 1051
RMS 715.6
χ² / ndf 2.201 / 14
Constant 1067 ± 7711.8
MPV -3034 ± 4690.8
Sigma 128.1 ± 429.8
IST - MIP peak non-ZS, RDO1_ARM5_GROUP0
Entries 40
Mean 912.6
RMS 667
χ² / ndf 3.867 / 19
Constant 6.848 ± 1.779
MPV 1360 ± 21005.2
Sigma 3795 ± 3056.7
IST - MIP peak non-ZS, RDO1_ARM5_GROUP1
Entries 31
Mean 900
RMS 623
χ² / ndf 1.749 / 15
Constant 6.266 ± 1.873
MPV 1418 ± 18155.2
Sigma 3968 ± 3125.7
IST - MIP peak non-ZS, RDO2_ARM0_GROUP0
Entries 42
Mean 907.2
RMS 731.1
χ² / ndf 1.702 / 19
Constant 6.459 ± 1.832
MPV 1041 ± 820.2
Sigma 768.6 ± 2380.1
IST - MIP peak non-ZS, RDO2_ARM0_GROUP1
Entries 63
Mean 883.8
RMS 663.7
χ² / ndf 10.64 / 24
Constant 300.8 ± 2205.6
MPV -3137 ± 3424.4
Sigma 255.1 ± 770.1
IST - MIP peak non-ZS, RDO2_ARM1_GROUP0
Entries 47
Mean 1050
RMS 625.7
χ² / ndf 3.034 / 25
Constant 24.83 ± 62.96
MPV -3450 ± 6866.9
Sigma 1059 ± 1248.3
IST - MIP peak non-ZS, RDO2_ARM1_GROUP1
Entries 44
Mean 899.1
RMS 637
χ² / ndf 6.657 / 16
Constant 8.315 ± 3.043
MPV 954.6 ± 373.1
Sigma 445.8 ± 522.2
IST - MIP peak non-ZS, RDO2_ARM2_GROUP0
Entries 49
Mean 796.1
RMS 494
χ² / ndf 4.172 / 21
Constant 138.1 ± 1473.4
MPV -5071 ± 10588.8
Sigma 512.2 ± 2273.3
IST - MIP peak non-ZS, RDO2_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
IST - MIP peak non-ZS, RDO2_ARM3_GROUP0
Entries 42
Mean 931.5
RMS 586.6
χ² / ndf 3.706 / 20
Constant 7.754 ± 2.125
MPV 902.3 ± 454.0
Sigma 554.9 ± 675.2
IST - MIP peak non-ZS, RDO2_ARM3_GROUP1
Entries 48
Mean 687.9
RMS 525.2
χ² / ndf 6.667 / 17
Constant 715.5 ± 4112.9
MPV -2262 ± 3906.3
Sigma 119.6 ± 335.7
IST - MIP peak non-ZS, RDO2_ARM4_GROUP0
Entries 47
Mean 1094
RMS 760.6
χ² / ndf 2.561 / 21
Constant 6.597 ± 4.472
MPV 3175 ± 12591.6
Sigma 3693 ± 2020.3
IST - MIP peak non-ZS, RDO2_ARM4_GROUP1
Entries 38
Mean 898.3
RMS 697.4
χ² / ndf 4.281 / 15
Constant 7.343 ± 2.166
MPV 1031 ± 542.2
Sigma 576.3 ± 668.2
IST - MIP peak non-ZS, RDO2_ARM5_GROUP0
Entries 36
Mean 1007
RMS 778.4
χ² / ndf 10.27 / 22
Constant 150.9 ± 999.9
MPV -4687 ± 8796.2
Sigma 458.6 ± 884.1
IST - MIP peak non-ZS, RDO2_ARM5_GROUP1
Entries 34
Mean 789.4
RMS 432.4
χ² / ndf 3.842 / 16
Constant 1027 ± 4822.8
MPV -1848 ± 3551.7
Sigma 87.58 ± 224.77
Pedestal Subtracted ADC [ADC Counts]

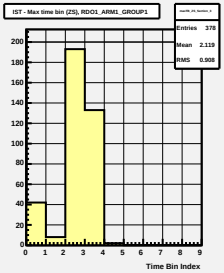

IST - MIP peak non-ZS, RDO3_ARM0_GROUP0
nZS_Section_24
Entries 36
Mean 854.4
RMS 611.6
χ² / ndf 3.418 / 17
Constant 7.092 ± 1.907
MPV 824.1 ± 960.3
Sigma 657.5 ± 1111.9
IST - MIP peak non-ZS, RDO3_ARM0_GROUP1
nZS_Section_25
Entries 79
Mean 1402
RMS 968.1
χ² / ndf 8.631 / 20
Constant 8.745 ± 2.230
MPV 772.5 ± 361.2
Sigma 449.5 ± 456.8
IST - MIP peak non-ZS, RDO3_ARM1_GROUP0
nZS_Section_26
Entries 31
Mean 740.2
RMS 446.5
χ² / ndf 2.322 / 13
Constant 8.208 ± 2.943
MPV 879 ± 322.1
Sigma 345.2 ± 350.6
IST - MIP peak non-ZS, RDO3_ARM1_GROUP1
nZS_Section_27
Entries 39
Mean 1089
RMS 832.7
χ² / ndf 3.928 / 16
Constant 572 ± 4382.4
MPV -4087 ± 8186.5
Sigma 217.6 ± 1959.0
IST - MIP peak non-ZS, RDO3_ARM2_GROUP0
nZS_Section_28
Entries 41
Mean 1025
RMS 720.9
χ² / ndf 4.506 / 20
Constant 7.468 ± 1.928
MPV 907.8 ± 398.4
Sigma 497.6 ± 555.2
IST - MIP peak non-ZS, RDO3_ARM2_GROUP1
nZS_Section_29
Entries 66
Mean 790.7
RMS 641.7
χ² / ndf 13.11 / 20
Constant 297.4 ± 2384.6
MPV -4873 ± 7781.3
Sigma 362.3 ± 2052.1
IST - MIP peak non-ZS, RDO3_ARM3_GROUP0
nZS_Section_30
Entries 29
Mean 935.1
RMS 592.4
χ² / ndf 3.699 / 13
Constant 124 ± 1646.8
MPV -6526 ± 30267.2
Sigma 674.5 ± 2477.1
IST - MIP peak non-ZS, RDO3_ARM3_GROUP1
nZS_Section_31
Entries 37
Mean 951.4
RMS 602.6
χ² / ndf 4.025 / 20
Constant 149.7 ± 1194.4
MPV -5196 ± 10645.6
Sigma 510.3 ± 1186.7
IST - MIP peak non-ZS, RDO3_ARM4_GROUP0
nZS_Section_32
Entries 34
Mean 909.6
RMS 707.3
χ² / ndf 2.144 / 14
Constant 5047 ± 16265.1
MPV -1280 ± 1615.8
Sigma 32.79 ± 49.92
IST - MIP peak non-ZS, RDO3_ARM4_GROUP1
nZS_Section_33
Entries 48
Mean 1026
RMS 710.2
χ² / ndf 6.793 / 17
Constant 7.82 ± 3.09
MPV 760.6 ± 5298.2
Sigma 1309 ± 2395.7
IST - MIP peak non-ZS, RDO3_ARM5_GROUP0
nZS_Section_34
Entries 56
Mean 850.5
RMS 595.6
χ² / ndf 7.741 / 22
Constant 9.709 ± 2.429
MPV 647.7 ± 354.2
Sigma 324.5 ± 345.5
IST - MIP peak non-ZS, RDO3_ARM5_GROUP1
nZS_Section_35
Entries 49
Mean 954.1
RMS 738.8
χ² / ndf 3.899 / 14
Constant 1.21e+06 ± 6.19e+06
MPV -681.7 ± 989.6
Sigma 19.68 ± 45.49
IST - MIP peak non-ZS, RDO4_ARM0_GROUP0
nZS_Section_36
Entries 29
Mean 1390
RMS 993
χ² / ndf 1.657 / 16
Constant 9.268 ± 79.271
MPV -642.9 ± 54614.9
Sigma 1399 ± 2575.1
IST - MIP peak non-ZS, RDO4_ARM0_GROUP1
nZS_Section_37
Entries 46
Mean 771.1
RMS 524.8
χ² / ndf 6.073 / 22
Constant 64.5 ± 1041.3
MPV -6162 ± 23954.9
Sigma 895.7 ± 2535.4
IST - MIP peak non-ZS, RDO4_ARM1_GROUP0
nZS_Segment_38
Entries 28
Mean 808.9
RMS 583.2
χ² / ndf 4.746 / 11
Constant 7.725 ± 3.042
MPV 902.2 ± 418.1
Sigma 488.3 ± 620.5
IST - MIP peak non-ZS, RDO4_ARM1_GROUP1
nZS_Section_39
Entries 39
Mean 1395
RMS 815
χ² / ndf 1.319 / 13
Constant 19.51 ± 623.22
MPV -8950 ± 332901.6
Sigma 2942 ± 2661.0
IST - MIP peak non-ZS, RDO4_ARM2_GROUP0
nZS_Section_40
Entries 45
Mean 899.6
RMS 584.9
χ² / ndf 5.786 / 20
Constant 8.346 ± 4.767
MPV 510.9 ± 2623.6
Sigma 614.4 ± 1978.3
IST - MIP peak non-ZS, RDO4_ARM2_GROUP1
nZS_Section_41
Entries 46
Mean 957.1
RMS 689
χ² / ndf 5.544 / 17
Constant 9.162 ± 3.151
MPV 631.9 ± 1735.9
Sigma 614.1 ± 956.4
IST - MIP peak non-ZS, RDO4_ARM3_GROUP0
nZS_Section_42
Entries 40
Mean 921.9
RMS 535.7
χ² / ndf 5.69 / 25
Constant 135.7 ± 1126.3
MPV -1.113e+06 ± 4.229e+06
Sigma 1129 ± 2559.9
IST - MIP peak non-ZS, RDO4_ARM3_GROUP1
nZS_Section_43
Entries 32
Mean 877
RMS 675.5
χ² / ndf 2.846 / 14
Constant 6.786 ± 7.347
MPV 423.1 ± 7227.6
Sigma 870.9 ± 2294.3
IST - MIP peak non-ZS, RDO4_ARM4_GROUP0
nZS_Section_44
Entries 38
Mean 957.3
RMS 572.9
χ² / ndf 3.464 / 17
Constant 683.2 ± 4554.9
MPV -2325 ± 3129.9
Sigma 132.6 ± 412.2
IST - MIP peak non-ZS, RDO4_ARM4_GROUP1
nZS_Section_45
Entries 41
Mean 894.1
RMS 663.2
χ² / ndf 2.963 / 21
Constant 260.3 ± 2061.2
MPV -5634 ± 11721.1
Sigma 401.3 ± 2201.2
IST - MIP peak non-ZS, RDO4_ARM5_GROUP0
nZS_Section_46
Entries 31
Mean 878.5
RMS 541.1
χ² / ndf 2.975 / 17
Constant 347.6 ± 1842.1
MPV -4891 ± 8988.9
Sigma 303.3 ± 2059.0
IST - MIP peak non-ZS, RDO4_ARM5_GROUP1
nZS_Section_47
Entries 42
Mean 1155
RMS 848.6
χ² / ndf 3.977 / 19
Constant 431.8 ± 3275.7
MPV -3778 ± 5486.4
Sigma 227.1 ± 1693.1
Pedestal Subtracted ADC [ADC Counts]

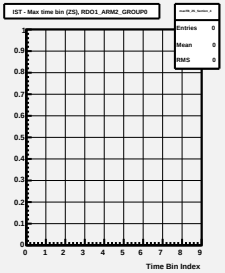

IST - MIP peak non-ZS, RDO5_ARM0_GROUP0
nZS_Section_48
Entries 39
Mean 881.4
RMS 611.5
χ² / ndf 4.717 / 18
Constant 7.828 ± 2.710
MPV 823.8 ± 320.8
Sigma 415.1 ± 581.1
IST - MIP peak non-ZS, RDO5_ARM0_GROUP1
nZS_Section_49
Entries 55
Mean 772.6
RMS 609.3
χ² / ndf 3.276 / 16
Constant 1409 ± 6521.4
MPV -1803 ± 1769.4
Sigma 88.48 ± 213.07
IST - MIP peak non-ZS, RDO5_ARM1_GROUP0
nZS_Section_50
Entries 37
Mean 909.5
RMS 649.4
χ² / ndf 3.547 / 14
Constant 10.16 ± 15.16
MPV 5448 ± 6543.7
Sigma 3415 ± 3413.3
IST - MIP peak non-ZS, RDO5_ARM1_GROUP1
nZS_Section_51
Entries 32
Mean 1089
RMS 618.5
χ² / ndf 3.889 / 16
Constant 961 ± 7085.1
MPV -3379 ± 5171.1
Sigma 146.2 ± 508.8
IST - MIP peak non-ZS, RDO5_ARM2_GROUP0
nZS_Section_52
Entries 46
Mean 783
RMS 725.4
χ² / ndf 7.029 / 13
Constant 653.2 ± 4978.6
MPV -2485 ± 3832.3
Sigma 135.5 ± 468.8
IST - MIP peak non-ZS, RDO5_ARM2_GROUP1
nZS_Section_53
Entries 43
Mean 1114
RMS 825.4
χ² / ndf 3.837 / 18
Constant 6.431 ± 2.970
MPV 1066 ± 24000.6
Sigma 3936 ± 3330.4
IST - MIP peak non-ZS, RDO5_ARM3_GROUP0
nZS_Section_54
Entries 50
Mean 1100
RMS 728.1
χ² / ndf 5.692 / 23
Constant 1276 ± 6764.4
MPV -2230 ± 2421.3
Sigma 95.62 ± 246.84
IST - MIP peak non-ZS, RDO5_ARM3_GROUP1
nZS_Section_55
Entries 50
Mean 728.2
RMS 355.1
χ² / ndf 6.505 / 21
Constant 11.06 ± 4.31
MPV 638.9 ± 156.8
Sigma 267 ± 323.4
IST - MIP peak non-ZS, RDO5_ARM4_GROUP0
nZS_Section_56
Entries 33
Mean 993
RMS 668.2
χ² / ndf 2.389 / 17
Constant 6.952 ± 2.133
MPV 1143 ± 895.5
Sigma 822 ± 1358.1
IST - MIP peak non-ZS, RDO5_ARM4_GROUP1
nZS_Section_57
Entries 30
Mean 955.5
RMS 552.8
χ² / ndf 3.57 / 15
Constant 8.108 ± 2.922
MPV 932.1 ± 273.2
Sigma 390.4 ± 344.0
IST - MIP peak non-ZS, RDO5_ARM5_GROUP0
nZS_Section_58
Entries 36
Mean 1110
RMS 779
χ² / ndf 2.771 / 15
Constant 6.91 ± 1.98
MPV 1080 ± 712.0
Sigma 631.3 ± 965.0
IST - MIP peak non-ZS, RDO5_ARM5_GROUP1
nZS_Section_59
Entries 28
Mean 936
RMS 630
χ² / ndf 1.797 / 14
Constant 126 ± 1258.5
MPV -5822 ± 15834.0
Sigma 590.2 ± 2193.7
IST - MIP peak non-ZS, RDO6_ARM0_GROUP0
nZS_Section_60
Entries 39
Mean 782.9
RMS 660.9
χ² / ndf 2.289 / 12
Constant 11.96 ± 318.05
MPV -6327 ± 27131.6
Sigma 3989 ± 3427.0
IST - MIP peak non-ZS, RDO6_ARM0_GROUP1
nZS_Section_61
Entries 29
Mean 821.2
RMS 478.3
χ² / ndf 1.454 / 17
Constant 171.9 ± 2208.6
MPV -5975 ± 13787.4
Sigma 510.5 ± 2874.5
IST - MIP peak non-ZS, RDO6_ARM1_GROUP0
nZS_Section_62
Entries 32
Mean 967
RMS 669.7
χ² / ndf 2.058 / 18
Constant 91.82 ± 602.10
MPV -9983 ± 31698.4
Sigma 1087 ± 2712.1
IST - MIP peak non-ZS, RDO6_ARM1_GROUP1
nZS_Section_63
Entries 59
Mean 559
RMS 257
χ² / ndf 29.11 / 13
Constant 426.7 ± 4254.2
MPV -3488 ± 9038.7
Sigma 200.6 ± 1370.4
IST - MIP peak non-ZS, RDO6_ARM2_GROUP0
nZS_Section_64
Entries 35
Mean 461.3
RMS 228.7
χ² / ndf 5.127 / 11
Constant 4431 ± 28900.8
MPV -727.2 ± 1528.4
Sigma 22.29 ± 77.05
IST - MIP peak non-ZS, RDO6_ARM2_GROUP1
nZS_Section_65
Entries 29
Mean 951.1
RMS 659.5
χ² / ndf 1.233 / 17
Constant 101.2 ± 1050.5
MPV -9397 ± 32442.1
Sigma 985.5 ± 2815.8
IST - MIP peak non-ZS, RDO6_ARM3_GROUP0
nZS_Section_66
Entries 39
Mean 989.4
RMS 615.1
χ² / ndf 3.301 / 16
Constant 308.5 ± 2549.7
MPV -5146 ± 11083.4
Sigma 341.9 ± 2015.2
IST - MIP peak non-ZS, RDO6_ARM3_GROUP1
nZS_Section_67
Entries 46
Mean 794.1
RMS 622.4
χ² / ndf 7.211 / 17
Constant 10.02 ± 3.63
MPV 660.6 ± 131.3
Sigma 204.4 ± 162.0
IST - MIP peak non-ZS, RDO6_ARM4_GROUP0
nZS_Section_68
Entries 22
Mean 885.1
RMS 476.2
χ² / ndf 2.031 / 13
Constant 49.33 ± 1990.12
MPV -7160 ± 78578.6
Sigma 1148 ± 2898.4
IST - MIP peak non-ZS, RDO6_ARM4_GROUP1
nZS_Section_69
Entries 34
Mean 898
RMS 634
χ² / ndf 4.101 / 14
Constant 139.7 ± 1338.7
MPV -8098 ± 35001.2
Sigma 784.9 ± 2102.0
IST - MIP peak non-ZS, RDO6_ARM5_GROUP0
nZS_Section_70
Entries 46
Mean 958.4
RMS 645.7
χ² / ndf 8.362 / 22
Constant 9.386 ± 2.399
MPV 779.4 ± 288.7
Sigma 435.6 ± 414.4
IST - MIP peak non-ZS, RDO6_ARM5_GROUP1
nZS_Section_71
Entries 46
Mean 1011
RMS 728.7
χ² / ndf 3.577 / 16
Constant 314.6 ± 1821.6
MPV -5168 ± 13238.7
Sigma 358.7 ± 1783.8
Pedestal Subtracted ADC [ADC Counts]

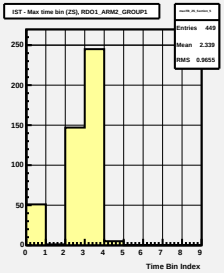

IST - Max time bin (ZS), RDO1_ARM0_GROUP0
Entries 351
Mean 2.316
RMS 1.04
Time Bin Index

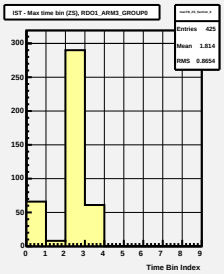

IST - Max time bin (ZS), RDO1_ARM0_GROUP1
Entries 454
Mean 2.218
RMS 1.057
Time Bin Index

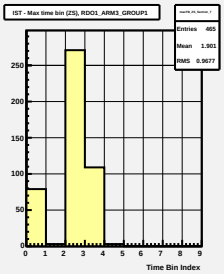

IST - Max time bin (ZS), RDO1_ARM1_GROUP0
Entries 415
Mean 2.376
RMS 1.036
Time Bin Index

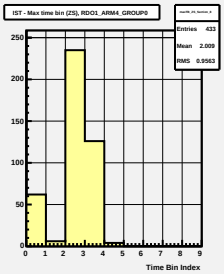

IST - Max time bin (ZS), RDO1_ARM1_GROUP1
Entries 378
Mean 2.119
RMS 0.908
Time Bin Index

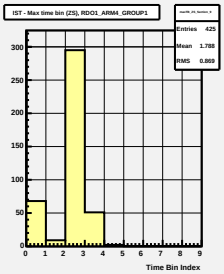

IST - Max time bin (ZS), RDO1_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
Time Bin Index

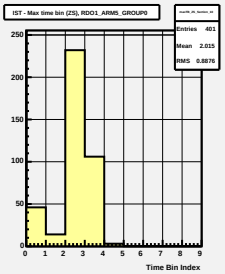

IST - Max time bin (ZS), RDO1_ARM2_GROUP1
Entries 449
Mean 2.339
RMS 0.9655
Time Bin Index

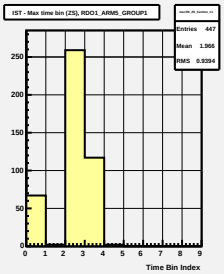

IST - Max time bin (ZS), RDO1_ARM3_GROUP0
Entries 425
Mean 1.814
RMS 0.8654
Time Bin Index

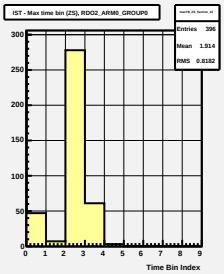

IST - Max time bin (ZS), RDO1_ARM3_GROUP1
Entries 465
Mean 1.901
RMS 0.9677
Time Bin Index

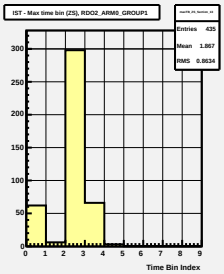

IST - Max time bin (ZS), RDO1_ARM4_GROUP0
Entries 433
Mean 2.009
RMS 0.9563
Time Bin Index

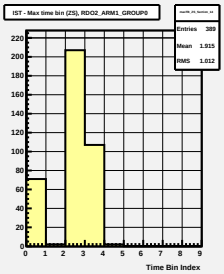

IST - Max time bin (ZS), RDO1_ARM4_GROUP1
Entries 425
Mean 1.788
RMS 0.869
Time Bin Index

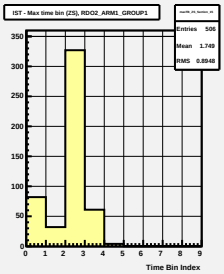

IST - Max time bin (ZS), RDO1_ARM5_GROUP0
Entries 461
Mean 2.015
RMS 0.8876
Time Bin Index

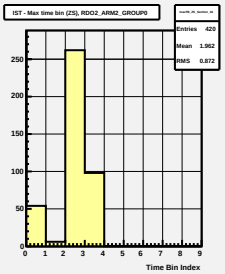

IST - Max time bin (ZS), RDO1_ARM5_GROUP1
Entries 447
Mean 1.966
RMS 0.9394
Time Bin Index

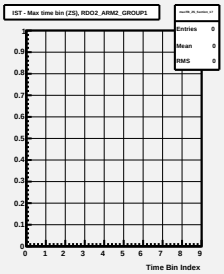

IST - Max time bin (ZS), RDO2_ARM0_GROUP0
Entries 396
Mean 1.914
RMS 0.8182
Time Bin Index

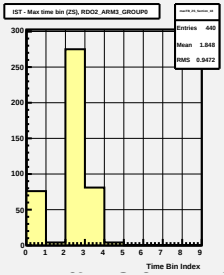

IST - Max time bin (ZS), RDO2_ARM0_GROUP1
Entries 435
Mean 1.867
RMS 0.8634
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM1_GROUP0
Entries 389
Mean 1.915
RMS 1.012
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM1_GROUP1
Entries 506
Mean 1.749
RMS 0.8948
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM2_GROUP0
Entries 429
Mean 1.962
RMS 0.872
Time Bin Index


IST - Max time bin (ZS), RDO2_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
Time Bin Index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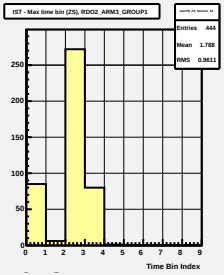
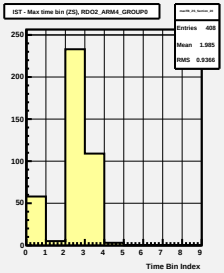
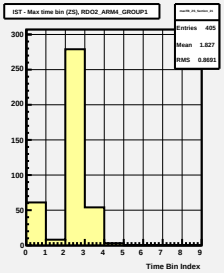
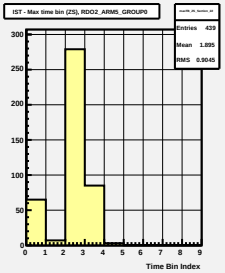
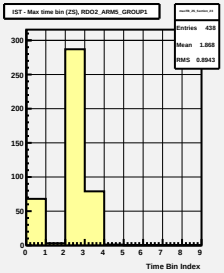
Entries 440
Mean 1.848
RMS 0.9472
Time Bin Index

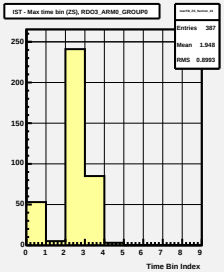

IST - Max time bin (ZS), RDO2_ARM3_GROUP1
Entries 444
Mean 1.788
RMS 0.9611
Time Bin Index

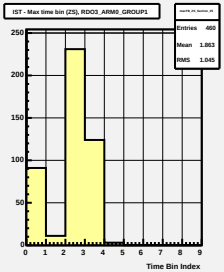

IST - Max time bin (ZS), RDO2_ARM4_GROUP0
Entries 408
Mean 1.985
RMS 0.9366
Time Bin Index

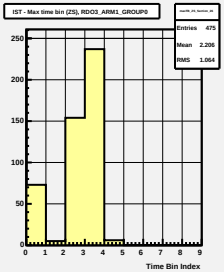

IST - Max time bin (ZS), RDO2_ARM4_GROUP1
Entries 405
Mean 1.827
RMS 0.8691
Time Bin Index

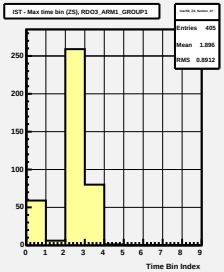

IST - Max time bin (ZS), RDO2_ARM5_GROUP0
Entries 439
Mean 1.895
RMS 0.9045
Time Bin Index

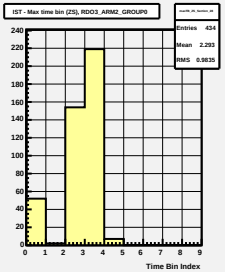

IST - Max time bin (ZS), RDO2_ARM5_GROUP1
Entries 438
Mean 1.868
RMS 0.8943
Time Bin Index

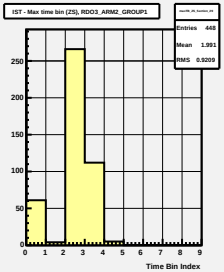

IST - Max time bin (ZS), RDO3_ARM0_GROUP0
Entries 387
Mean 1.948
RMS 0.8993
Time Bin Index

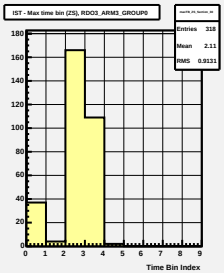

IST - Max time bin (ZS), RDO3_ARM0_GROUP1
Entries 460
Mean 1.863
RMS 1.045
Time Bin Index

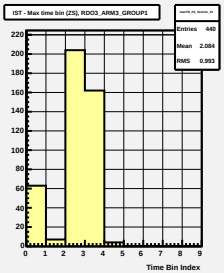

IST - Max time bin (ZS), RDO3_ARM1_GROUP0
Entries 475
Mean 2.206
RMS 1.064
Time Bin Index

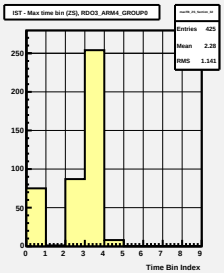

IST - Max time bin (ZS), RDO3_ARM1_GROUP1
Entries 405
Mean 1.896
RMS 0.8912
Time Bin Index

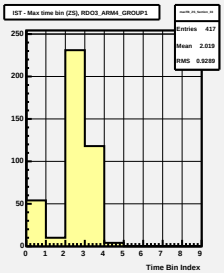

IST - Max time bin (ZS), RDO3_ARM2_GROUP0
Entries 434
Mean 2.293
RMS 0.9835
Time Bin Index

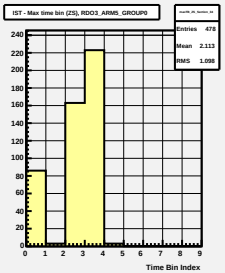

IST - Max time bin (ZS), RDO3_ARM2_GROUP1
Entries 448
Mean 1.991
RMS 0.9209
Time Bin Index

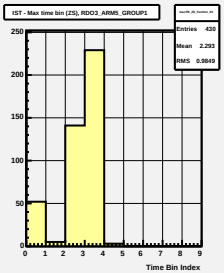

IST - Max time bin (ZS), RDO3_ARM3_GROUP0
Entries 318
Mean 2.11
RMS 0.9131
Time Bin Index

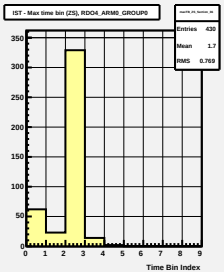

IST - Max time bin (ZS), RDO3_ARM3_GROUP1
Entries 440
Mean 2.084
RMS 0.993
Time Bin Index

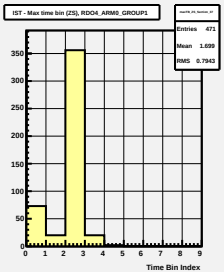

IST - Max time bin (ZS), RDO3_ARM4_GROUP0
Entries 425
Mean 2.28
RMS 1.141
Time Bin Index

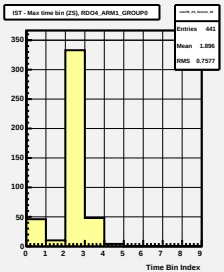

IST - Max time bin (ZS), RDO3_ARM4_GROUP1
Entries 417
Mean 2.019
RMS 0.9289
Time Bin Index

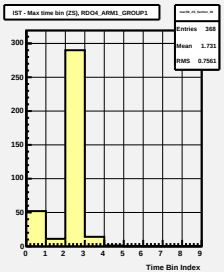

IST - Max time bin (ZS), RDO3_ARM5_GROUP0
Entries 478
Mean 2.113
RMS 1.098
Time Bin Index

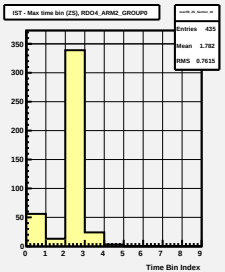

IST - Max time bin (ZS), RDO3_ARM5_GROUP1
Entries 430
Mean 2.293
RMS 0.9849
Time Bin Index

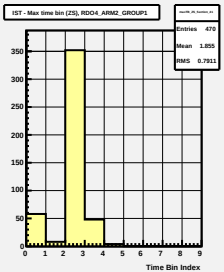

IST - Max time bin (ZS), RDO4_ARM0_GROUP0
Entries 430
Mean 1.7
RMS 0.769
Time Bin Index

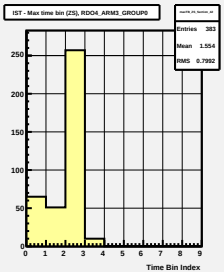

IST - Max time bin (ZS), RDO4_ARM0_GROUP1
Entries 471
Mean 1.699
RMS 0.7943
Time Bin Index

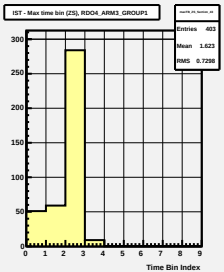

IST - Max time bin (ZS), RDO4_ARM1_GROUP0
Entries 441
Mean 1.896
RMS 0.7577
Time Bin Index

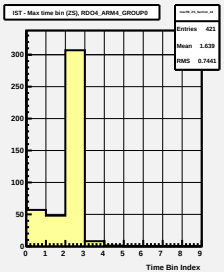

IST - Max time bin (ZS), RDO4_ARM1_GROUP1
Entries 368
Mean 1.731
RMS 0.7561
Time Bin Index

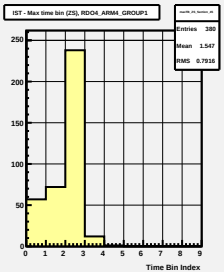

IST - Max time bin (ZS), RDO4_ARM2_GROUP0
Entries 435
Mean 1.782
RMS 0.7615
Time Bin Index

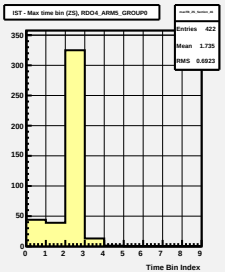

IST - Max time bin (ZS), RDO4_ARM2_GROUP1
Entries 479
Mean 1.855
RMS 0.7911
Time Bin Index

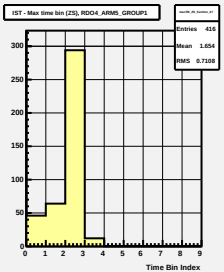

IST - Max time bin (ZS), RDO4_ARM3_GROUP0
Entries 383
Mean 1.554
RMS 0.7992
Time Bin Index

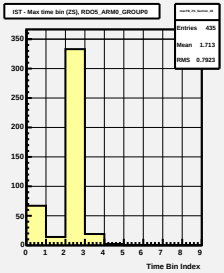

IST - Max time bin (ZS), RDO4_ARM3_GROUP1
Entries 403
Mean 1.623
RMS 0.7298
Time Bin Index

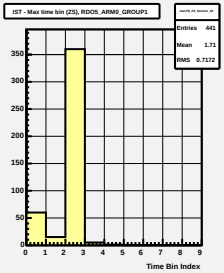

IST - Max time bin (ZS), RDO4_ARM4_GROUP0
Entries 421
Mean 1.639
RMS 0.7441
Time Bin Index

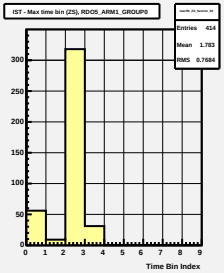

IST - Max time bin (ZS), RDO4_ARM4_GROUP1
Entries 380
Mean 1.547
RMS 0.7916
Time Bin Index

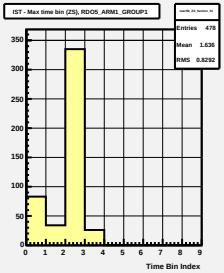

IST - Max time bin (ZS), RDO4_ARM5_GROUP0
Entries 422
Mean 1.735
RMS 0.6923
Time Bin Index

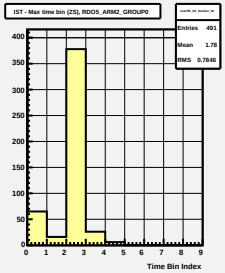

IST - Max time bin (ZS), RDO4_ARM5_GROUP1
Entries 416
Mean 1.654
RMS 0.7108
Time Bin Index

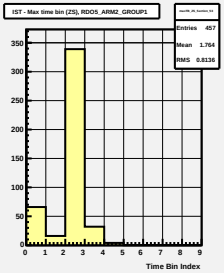

IST - Max time bin (ZS), RDO5_ARM0_GROUP0
Entries 435
Mean 1.713
RMS 0.7923
Time Bin Index

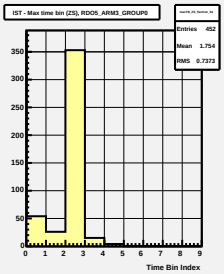

IST - Max time bin (ZS), RDO5_ARM0_GROUP1
Entries 441
Mean 1.71
RMS 0.7172
Time Bin Index

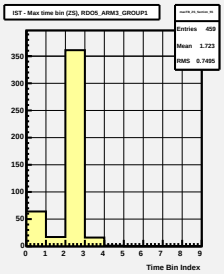

IST - Max time bin (ZS), RDO5_ARM1_GROUP0
Entries 414
Mean 1.783
RMS 0.7684
Time Bin Index

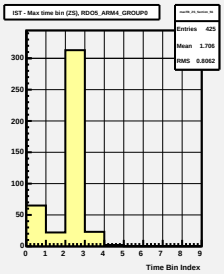

IST - Max time bin (ZS), RDO5_ARM1_GROUP1
Entries 478
Mean 1.636
RMS 0.8292
Time Bin Index

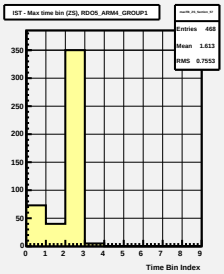

IST - Max time bin (ZS), RDO5_ARM2_GROUP0
Entries 491
Mean 1.78
RMS 0.7846
Time Bin Index

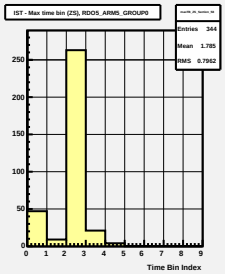

IST - Max time bin (ZS), RDO5_ARM2_GROUP1
Entries 457
Mean 1.764
RMS 0.8136
Time Bin Index

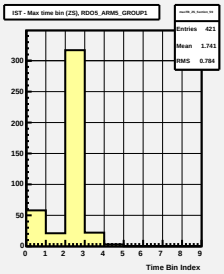

IST - Max time bin (ZS), RDO5_ARM3_GROUP0
Entries 452
Mean 1.754
RMS 0.7373
Time Bin Index

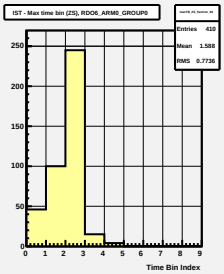

IST - Max time bin (ZS), RDO5_ARM3_GROUP1
Entries 459
Mean 1.723
RMS 0.7495
Time Bin Index

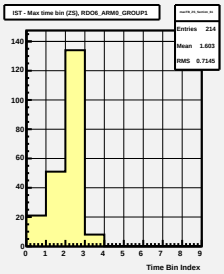

IST - Max time bin (ZS), RDO5_ARM4_GROUP0
Entries 425
Mean 1.706
RMS 0.8062
Time Bin Index

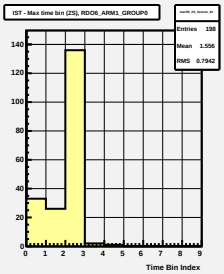

IST - Max time bin (ZS), RDO5_ARM4_GROUP1
Entries 468
Mean 1.613
RMS 0.7553
Time Bin Index

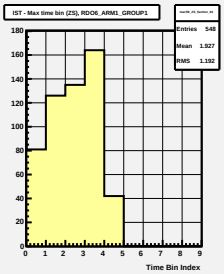

IST - Max time bin (ZS), RDO5_ARM5_GROUP0
Entries 344
Mean 1.785
RMS 0.7962
Time Bin Index

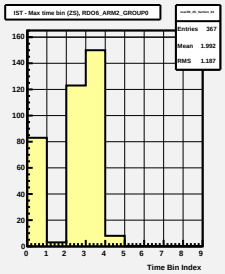

IST - Max time bin (ZS), RDO5_ARM5_GROUP1
Entries 421
Mean 1.741
RMS 0.784
Time Bin Index

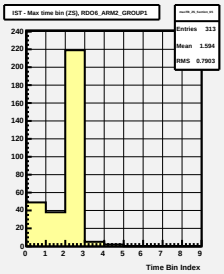

IST - Max time bin (ZS), RDO6_ARM0_GROUP0
Entries 410
Mean 1.588
RMS 0.7736
Time Bin Index

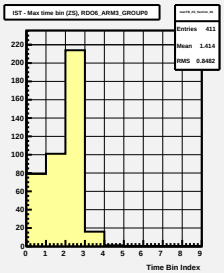

IST - Max time bin (ZS), RDO6_ARM0_GROUP1
Entries 214
Mean 1.603
RMS 0.7145
Time Bin Index

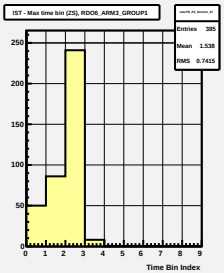

IST - Max time bin (ZS), RDO6_ARM1_GROUP0
Entries 198
Mean 1.556
RMS 0.7942
Time Bin Index

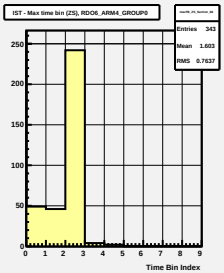

IST - Max time bin (ZS), RDO6_ARM1_GROUP1
Entries 548
Mean 1.927
RMS 1.192
Time Bin Index

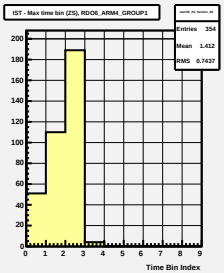

IST - Max time bin (ZS), RDO6_ARM2_GROUP0
Entries 367
Mean 1.992
RMS 1.187
Time Bin Index

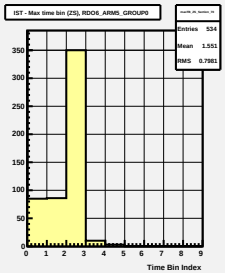

IST - Max time bin (ZS), RDO6_ARM2_GROUP1
Entries 313
Mean 1.594
RMS 0.7903
Time Bin Index

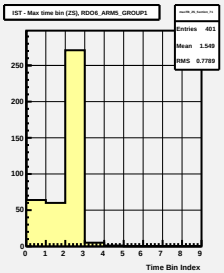

IST - Max time bin (ZS), RDO6_ARM3_GROUP0
Entries 411
Mean 1.414
RMS 0.8482
Time Bin Index

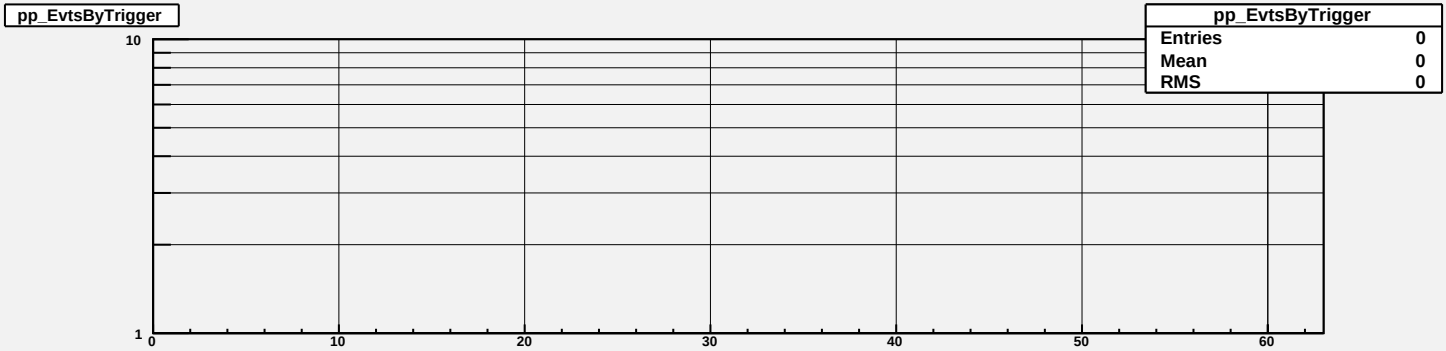

IST - Max time bin (ZS), RDO6_ARM3_GROUP1
Entries 385
Mean 1.538
RMS 0.7415
Time Bin Index

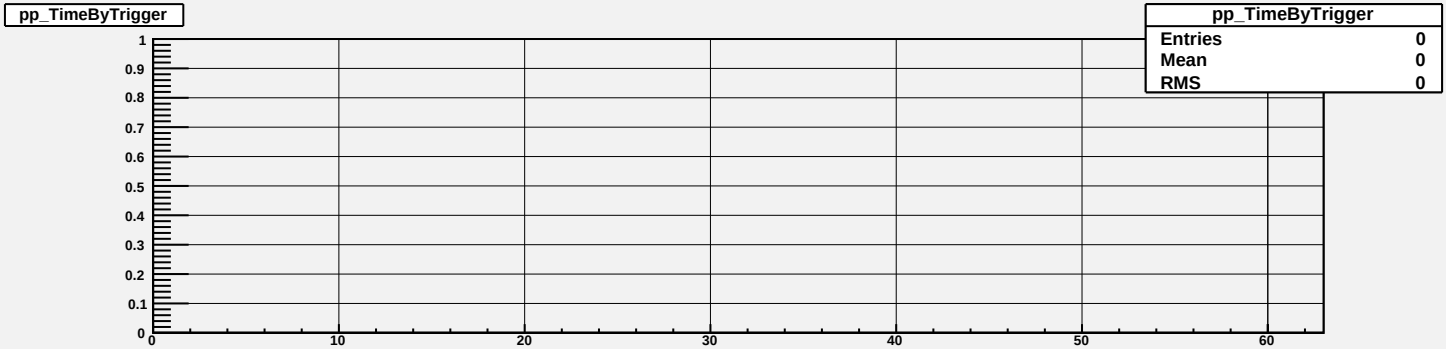

IST - Max time bin (ZS), RDO6_ARM4_GROUP0
Entries 343
Mean 1.603
RMS 0.7637
Time Bin Index

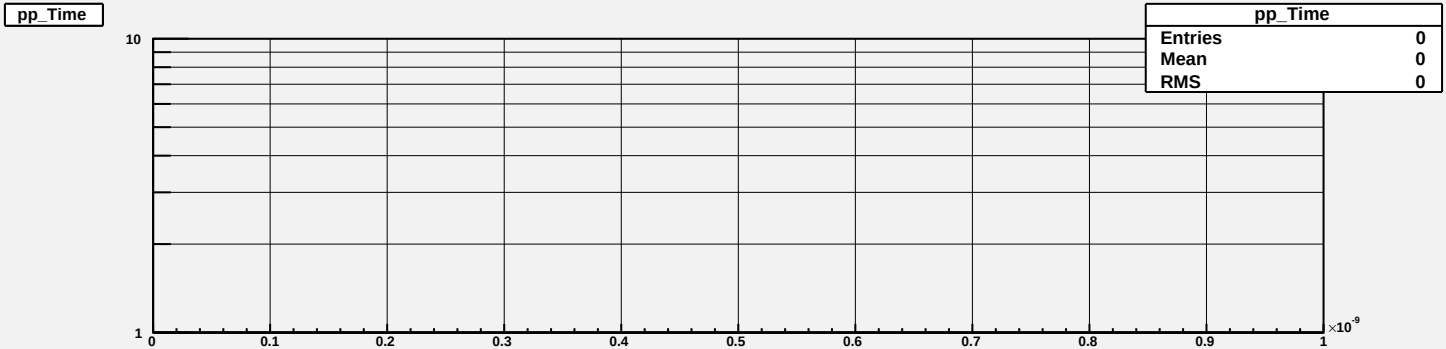

IST - Max time bin (ZS), RDO6_ARM4_GROUP1
Entries 354
Mean 1.412
RMS 0.7437
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM5_GROUP0
Entries 534
Mean 1.551
RMS 0.7981
Time Bin Index


IST - Max time bin (ZS), RDO6_ARM5_GROUP1
Entries 401
Mean 1.549
RMS 0.7789
Time Bin Index


pp_EvtsByTrigger
pp_EvtsByTrigger
Entries 0
Mean 0
RMS 0
10
1
0
10
20
30
40
50
60


pp_TimeByTrigger
pp_TimeByTrigger
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
10
20
30
40
50
60


pp_Time
pp_Time
Entries 0
Mean 0
RMS 0
10
1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
×10^-9

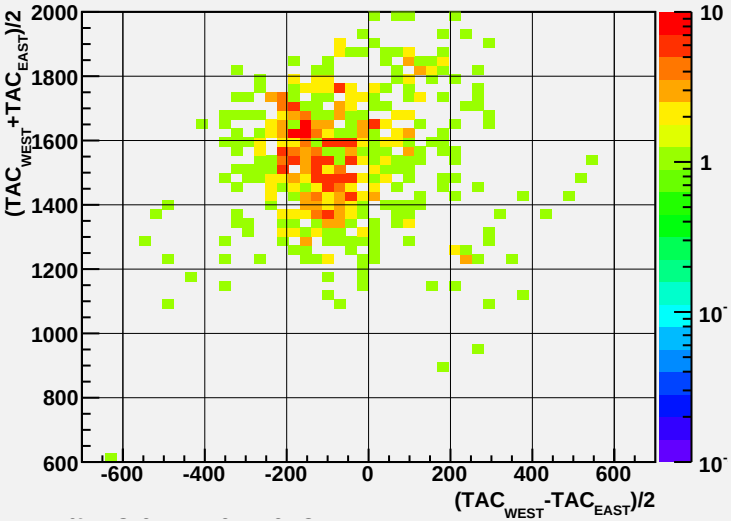
PMT_STATUS <ADC>

	E1U	E1D	E2U	E2D	W1U	W1D	W2U	W2D
PMT2	29.73	50.27	46.36	56.61	49.46	39.82	67.67	38.12
PMT1	32.64	44.67	72.62	39.08	38.22	33.40	28.66	54.90

SVX_STATUS <ADC>

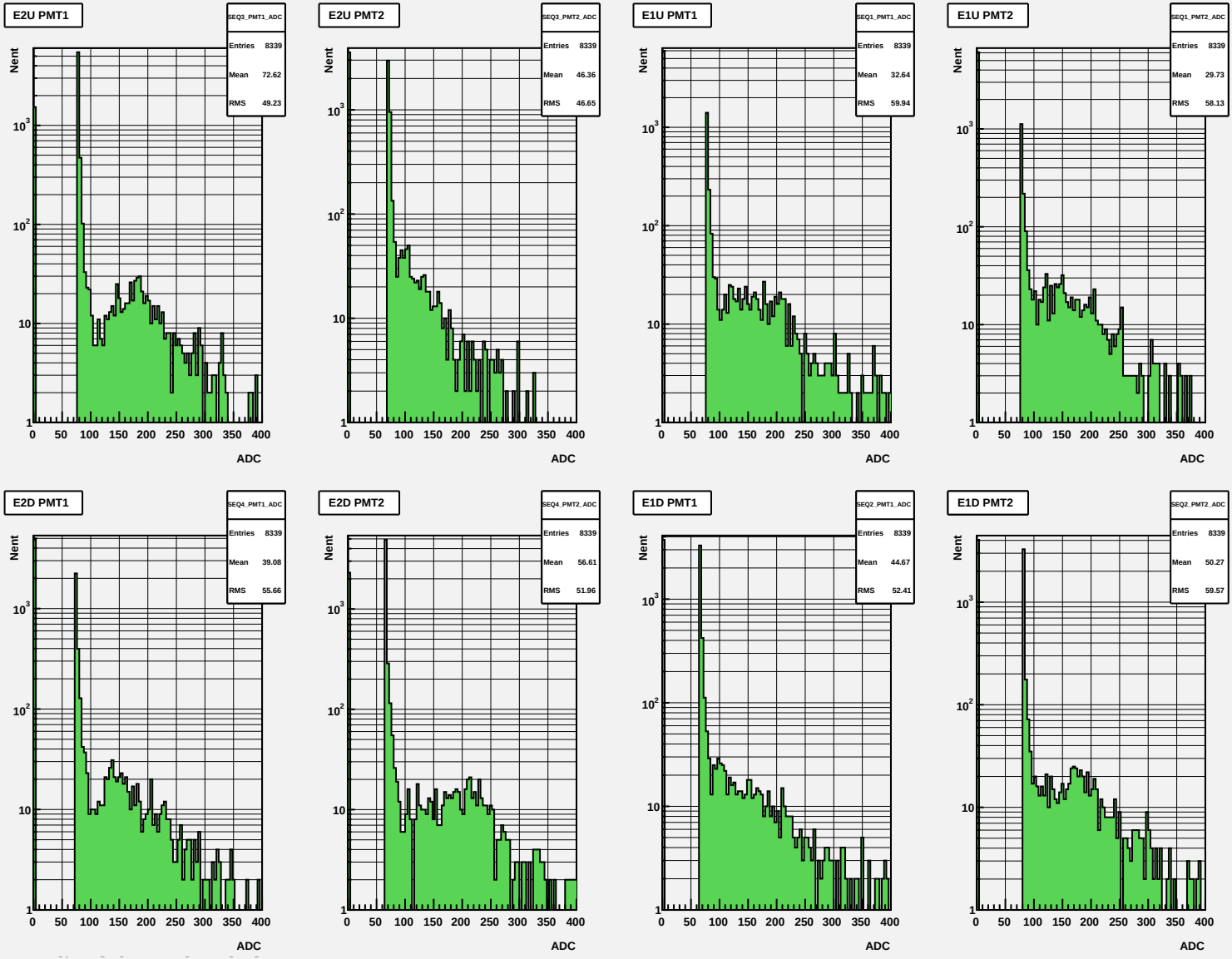
	SVX0	SVX1	SVX2	SVX3	SVX4	SVX5
W2D_D	1.07	1.17	1.07	1.16	1.15	0.81
W2D_C	0.96	1.01	0.92	0.58		
W2D_B	0.75	1.28	1.74	1.58	2.22	0.91
W2D_A	1.10	1.16	0.92	0.79		
W2U_D	0.35	0.45	0.47	0.51	0.42	0.41
W2U_C	1.08	0.94	1.33	0.89		
W2U_B	0.41	0.55	0.64	0.45	0.78	0.39
W2U_A	0.75	0.76	0.71	0.58		
W1D_D	0.66	1.09	1.85	0.95	1.11	0.84
W1D_C	1.24	0.83	0.74	0.50		
W1D_B	0.94	1.13	1.11	1.84	2.76	0.78
W1D_A	0.73	0.71	0.90	0.74		
W1U_D	1.17	1.54	1.22	1.21	2.14	0.87
W1U_C	1.28	0.90	1.02	0.74		
W1U_B	1.17	2.63	1.26	1.58	3.28	0.75
W1U_A	0.88	1.00	1.15	0.95		
E2D_D	0.94	1.24	1.09	1.37	1.35	0.72
E2D_C	1.19	1.27	0.82	0.71		
E2D_B	0.71	0.86	0.73	0.90	0.92	0.60
E2D_A	1.11	0.81	1.11	0.76		
E2U_D	0.79	1.20	1.27	0.96	0.81	0.75
E2U_C	0.87	0.77	0.69	0.60		
E2U_B	0.82	0.82	1.05	0.83	1.23	0.74
E2U_A	1.04	1.41	0.73			
E1D_D	0.87	1.23	1.23	0.79	1.13	0.70
E1D_C	1.05	1.07	0.73	0.84		
E1D_B	0.75	0.95	0.77	1.01	0.89	0.76
E1D_A	1.14	0.82	0.63	0.65		
E1U_D	0.42	0.64	0.78	1.14	0.97	0.46
E1U_C	1.33	0.98	1.15	0.58		
E1U_B	0.44	0.54	0.58	0.59	0.74	0.48
E1U_A	0.97	0.80	0.94	0.70		

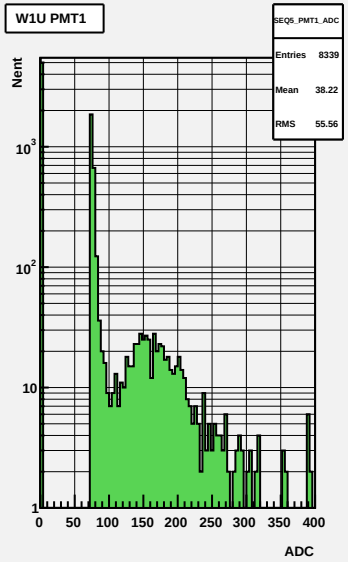
PMT Time vs z-vertex

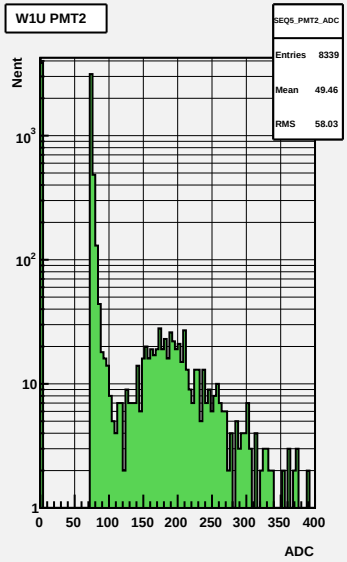


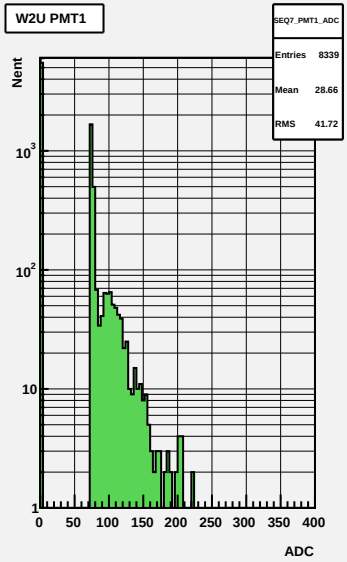
SVX_NCH <average fraction of chnls read>

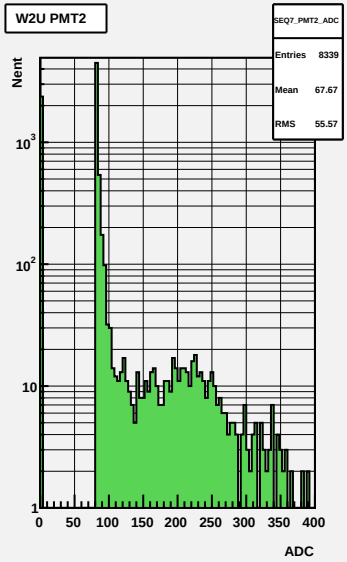
	SVX0	SVX1	SVX2	SVX3	SVX4	SVX5
W2D_D	0.01	0.01	0.01	0.01	0.01	0.00
W2D_C	0.00	0.00	0.00	0.00		
W2D_B	0.00	0.00	0.00	0.00	0.01	0.00
W2D_A	0.00	0.00	0.00	0.00		
W2U_D	0.00	0.00	0.00	0.00	0.00	0.00
W2U_C	0.00	0.00	0.01	0.00		
W2U_B	0.00	0.00	0.00	0.00	0.00	0.00
W2U_A	0.00	0.00	0.00	0.00		
W1D_D	0.00	0.01	0.01	0.01	0.01	0.01
W1D_C	0.00	0.00	0.00	0.00		
W1D_B	0.01	0.01	0.01	0.00	0.00	0.00
W1D_A	0.00	0.00	0.00	0.00		
W1U_D	0.01	0.01	0.01	0.01	0.01	0.00
W1U_C	0.00	0.00	0.00	0.00		
W1U_B	0.00	0.00	0.00	0.00	0.00	0.00
W1U_A	0.00	0.00	0.00	0.00		
E2D_D	0.00	0.01	0.01	0.01	0.00	0.00
E2D_C	0.00	0.00	0.00	0.00		
E2D_B	0.00	0.01	0.01	0.01	0.01	0.00
E2D_A	0.00	0.00	0.00	0.00		
E2U_D	0.01	0.01	0.01	0.01	0.01	0.00
E2U_C	0.00	0.00	0.00	0.00		
E2U_B	0.00	0.01	0.01	0.01	0.01	0.00
E2U_A	0.00	0.00	0.00			
E1D_D	0.01	0.01	0.01	0.01	0.01	0.00
E1D_C	0.00	0.00	0.00	0.00		
E1D_B	0.01	0.01	0.01	0.01	0.01	0.00
E1D_A	0.00	0.00	0.00	0.00		
E1U_D	0.00	0.00	0.00	0.00	0.00	0.00
E1U_C	0.00	0.00	0.01	0.00		
E1U_B	0.00	0.00	0.00	0.00	0.00	0.00
E1U_A	0.00	0.00	0.00	0.00		

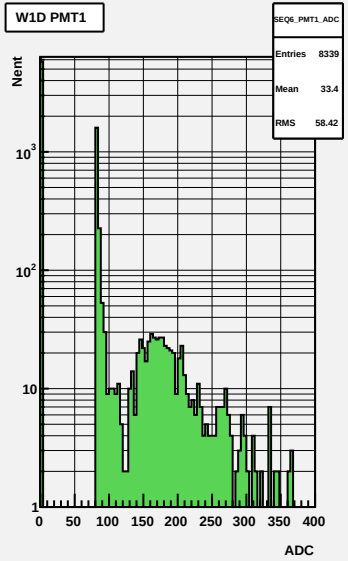

E2U PMT1
SEQ3_PMT1_ADC
Entries 8339
Mean 72.62
RMS 49.23
E2U PMT2
SEQ3_PMT2_ADC
Entries 8339
Mean 46.36
RMS 46.65
E1U PMT1
SEQ1_PMT1_ADC
Entries 8339
Mean 32.64
RMS 59.94
E1U PMT2
SEQ1_PMT2_ADC
Entries 8339
Mean 29.73
RMS 58.13
E2D PMT1
SEQ4_PMT1_ADC
Entries 8339
Mean 39.08
RMS 55.66
E2D PMT2
SEQ4_PMT2_ADC
Entries 8339
Mean 56.61
RMS 51.96
E1D PMT1
SEQ2_PMT1_ADC
Entries 8339
Mean 44.67
RMS 52.41
E1D PMT2
SEQ2_PMT2_ADC
Entries 8339
Mean 50.27
RMS 59.57
Nent
ADC

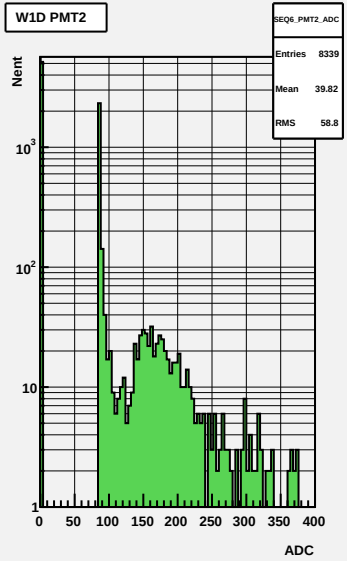

W1U PMT1
SEQ5_PMT1_ADC
Entries 8339
Mean 38.22
RMS 55.56
Nent
ADC

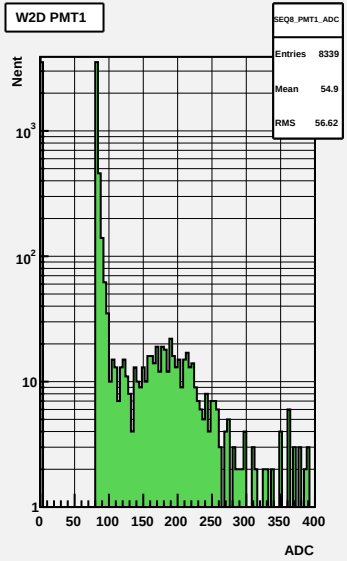

W1U PMT2
SEQ5_PMT2_ADC
Entries 8339
Mean 49.46
RMS 58.03
Nent
ADC

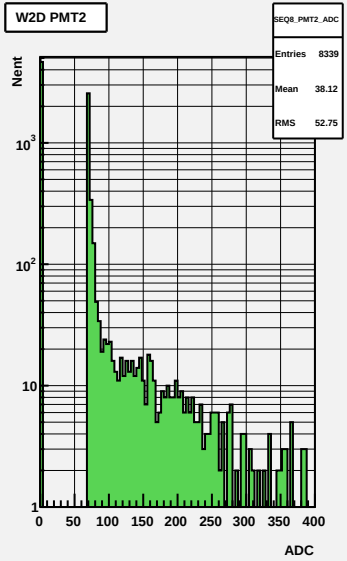

W2U PMT1
SEQ7_PMT1_ADC
Entries 8339
Mean 28.66
RMS 41.72
Nent
ADC

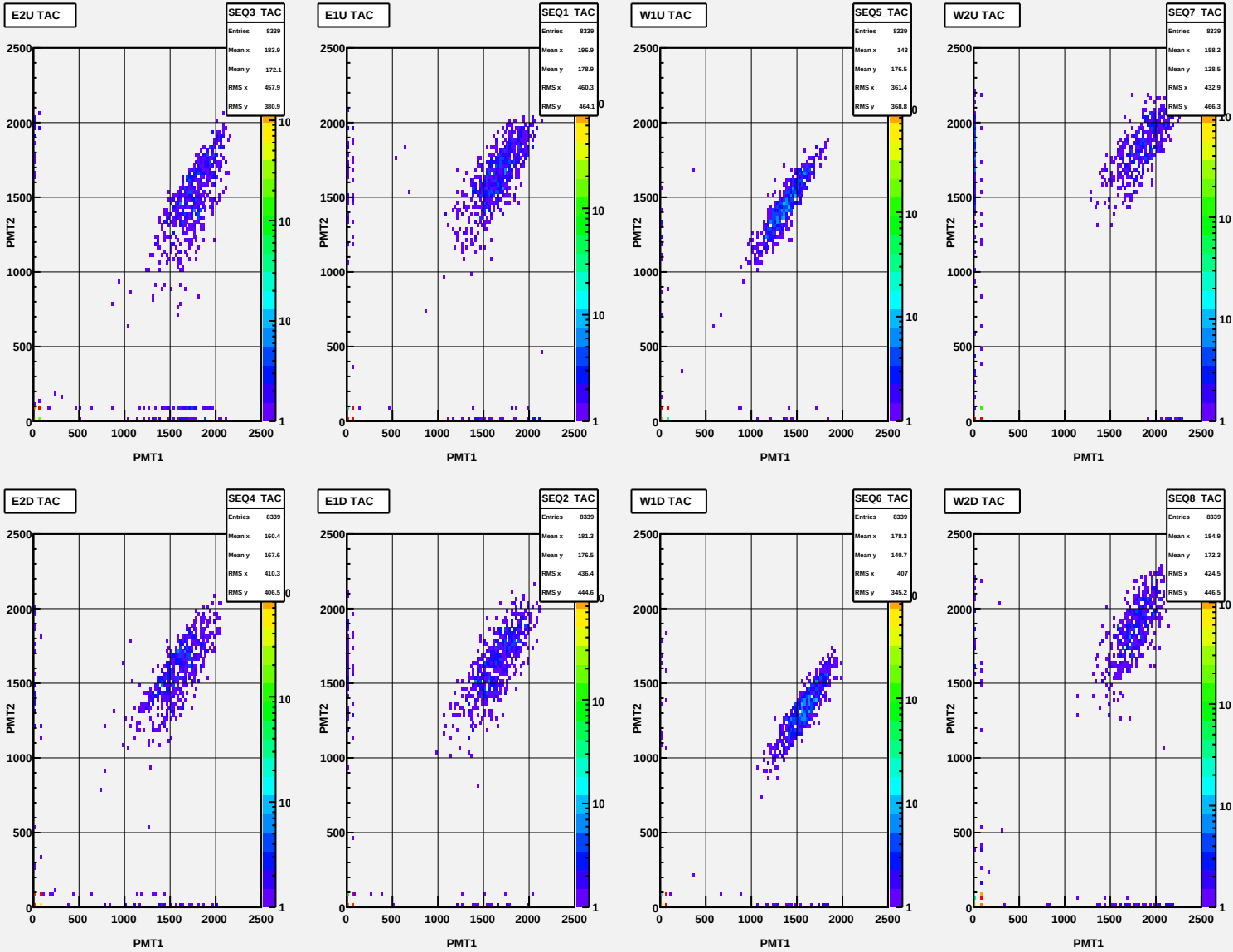

W2U PMT2
SEQ7_PMT2_ADC
Entries 8339
Mean 67.67
RMS 55.57
Nent
ADC

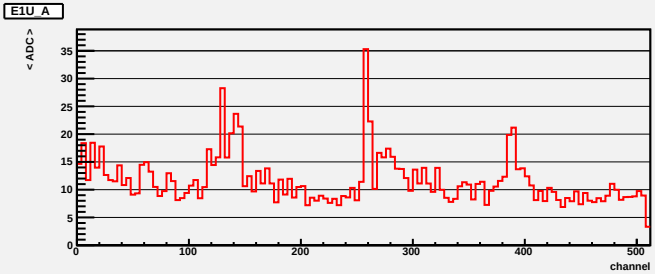

W1D PMT1
SEQ6_PMT1_ADC
Entries 8339
Mean 33.4
RMS 58.42
Nent
ADC

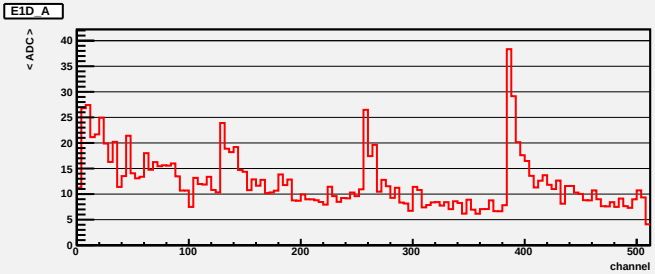

W1D PMT2
SEQ6_PMT2_ADC
Entries 8339
Mean 39.82
RMS 58.8
Nent
ADC

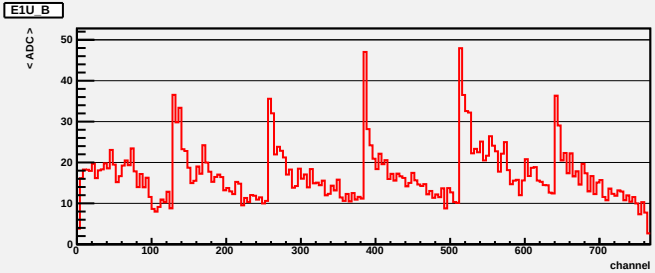

W2D PMT1
SEQ8_PMT1_ADC
Entries 8339
Mean 54.9
RMS 56.62
Nent
ADC


W2D PMT2
SEQ8_PMT2_ADC
Entries 8339
Mean 38.12
RMS 52.75
Nent
ADC


E2U TAC
SEQ3_TAC
Entries 8339
Mean x 183.9
Mean y 172.1
RMS x 457.9
RMS y 380.9
E1U TAC
SEQ1_TAC
Entries 8339
Mean x 196.9
Mean y 178.9
RMS x 460.3
RMS y 464.1
W1U TAC
SEQ5_TAC
Entries 8339
Mean x 143
Mean y 176.5
RMS x 361.4
RMS y 368.8
W2U TAC
SEQ7_TAC
Entries 8339
Mean x 158.2
Mean y 128.5
RMS x 432.9
RMS y 466.3
E2D TAC
SEQ4_TAC
Entries 8339
Mean x 160.4
Mean y 167.6
RMS x 410.3
RMS y 406.5
E1D TAC
SEQ2_TAC
Entries 8339
Mean x 181.3
Mean y 176.5
RMS x 436.4
RMS y 444.6
W1D TAC
SEQ6_TAC
Entries 8339
Mean x 178.3
Mean y 140.7
RMS x 407
RMS y 345.2
W2D TAC
SEQ8_TAC
Entries 8339
Mean x 184.9
Mean y 172.3
RMS x 424.5
RMS y 446.5
PMT1
PMT2
0
500
1000
1500
2000
2500
1
10


E1U_A
< ADC >
channel


E1D_A
< ADC >
channel


E1U_B
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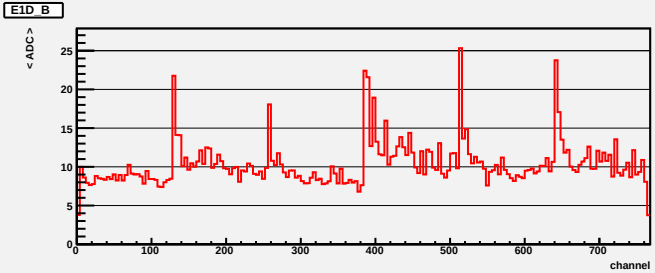
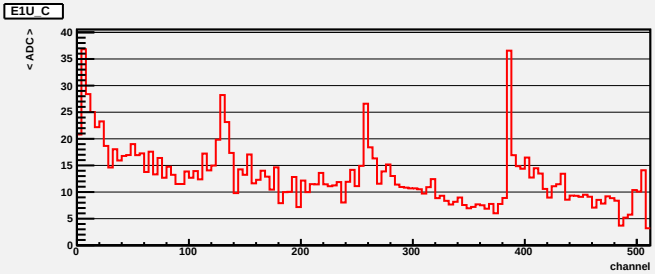
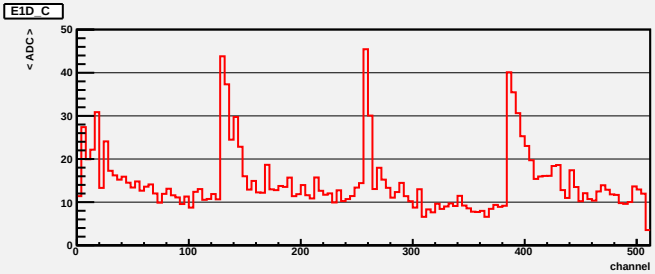
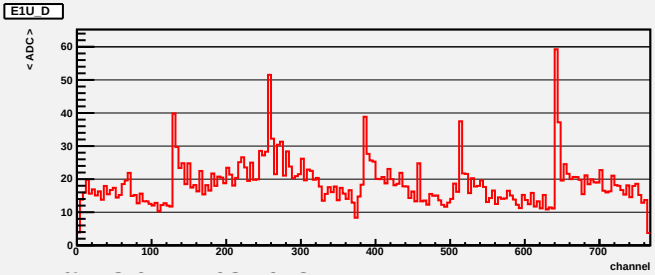
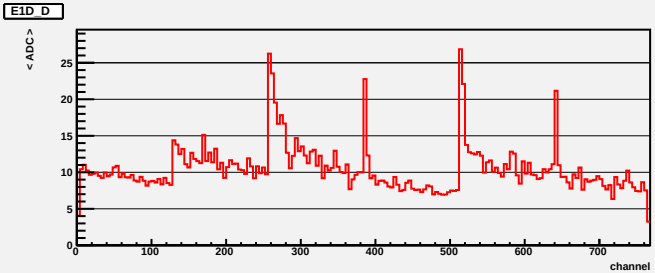
channel

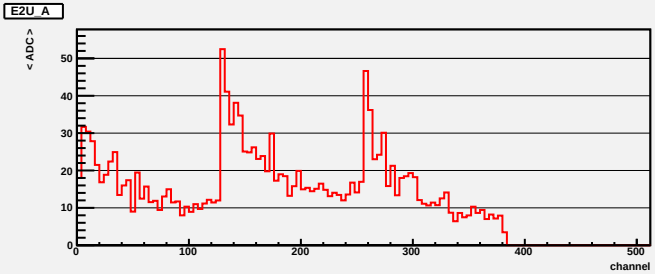

E1D_B
< ADC >
channel


E1U_C
< ADC >
channel


E1D_C
< ADC >
channel


E1U_D
< ADC >
channel


E1D_D
< ADC >
channel


E2U_A
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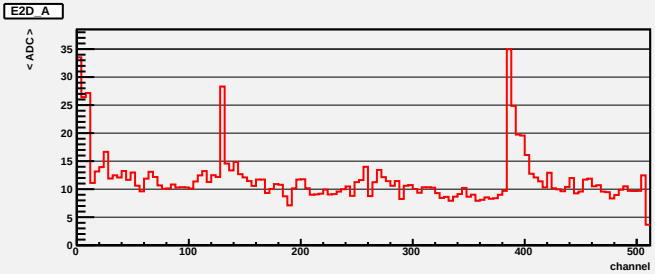
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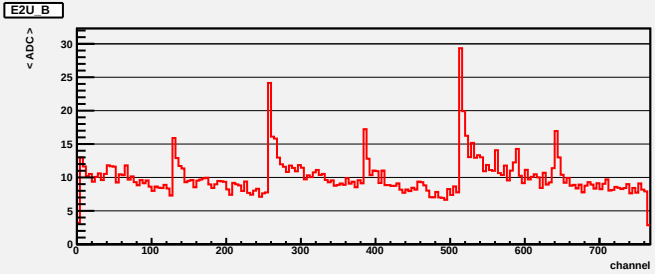
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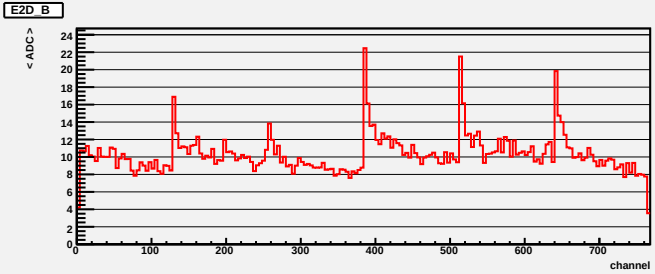
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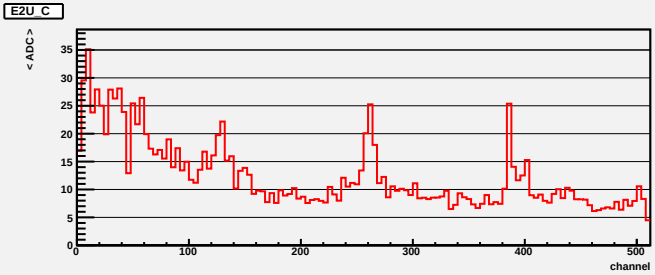
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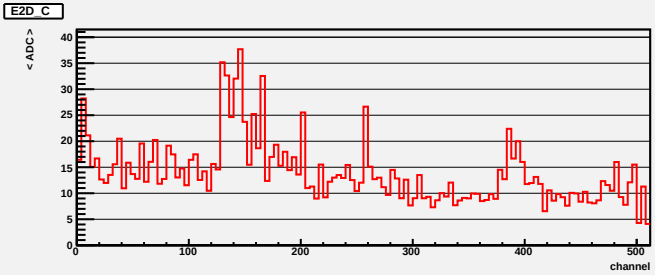
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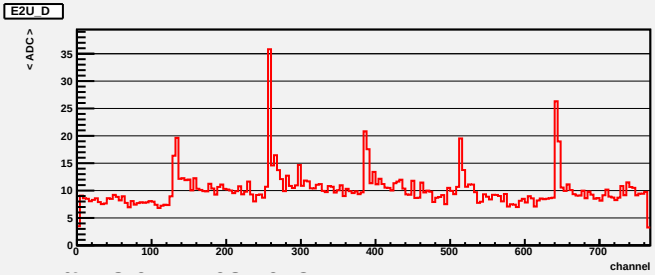
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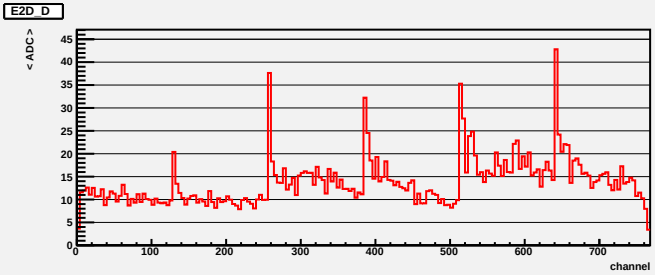
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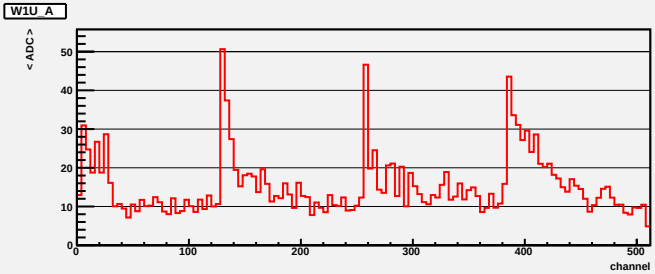
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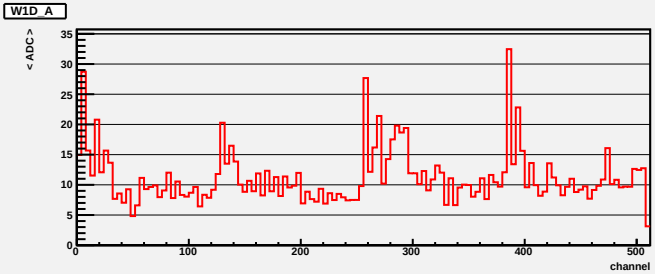
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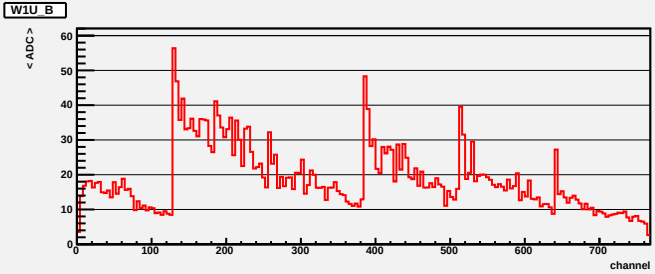
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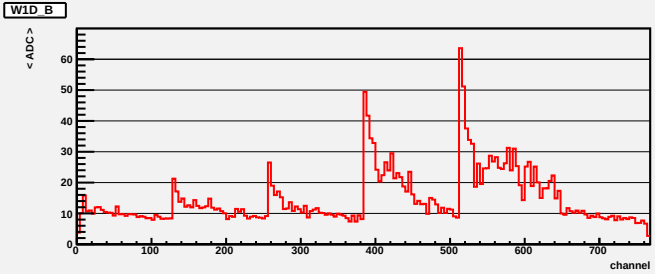
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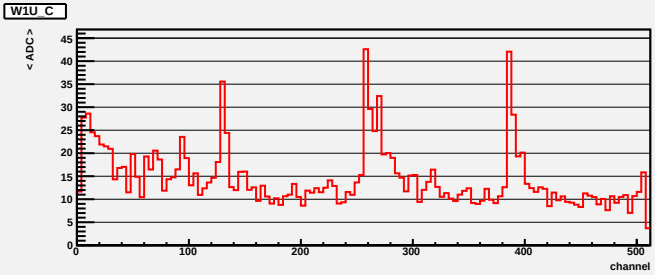
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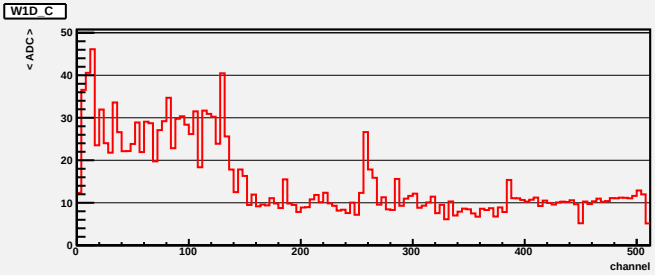
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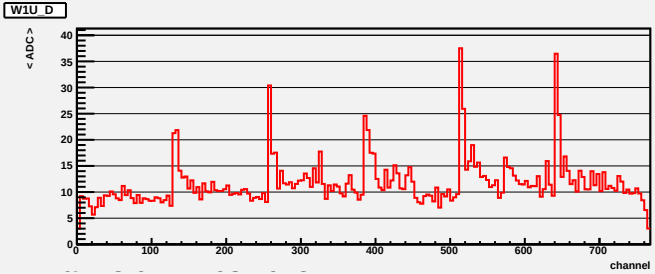
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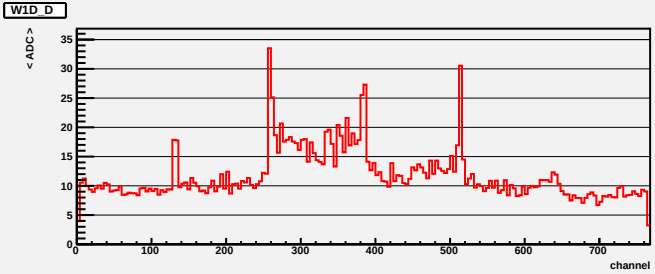
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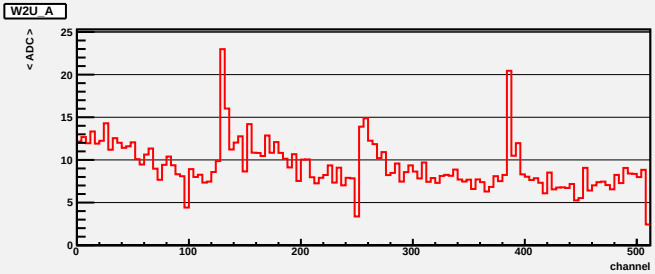
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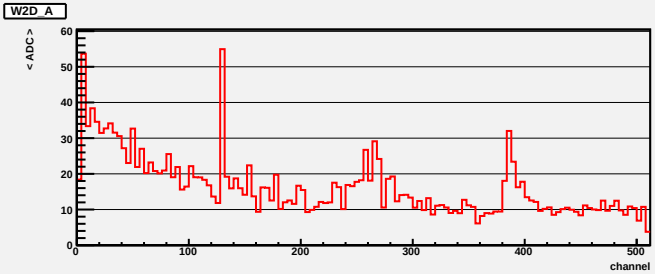
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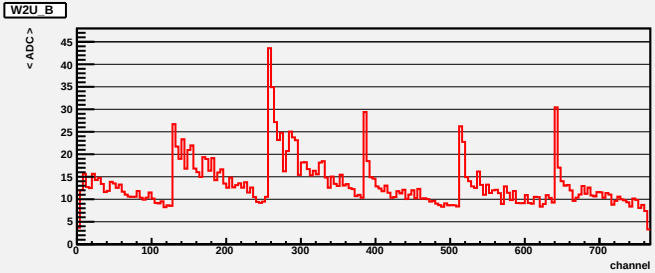
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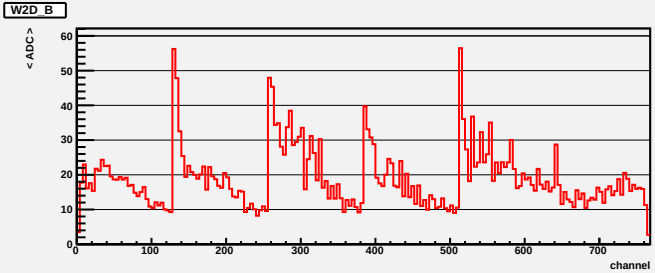
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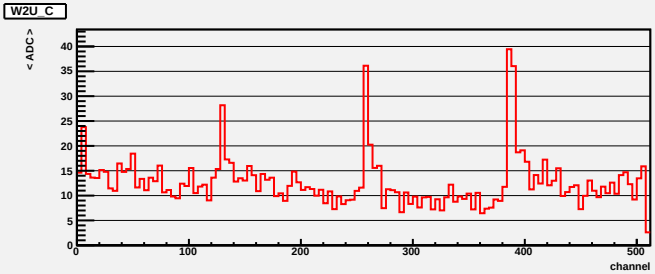
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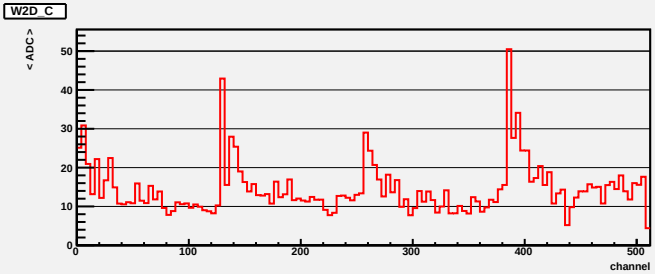
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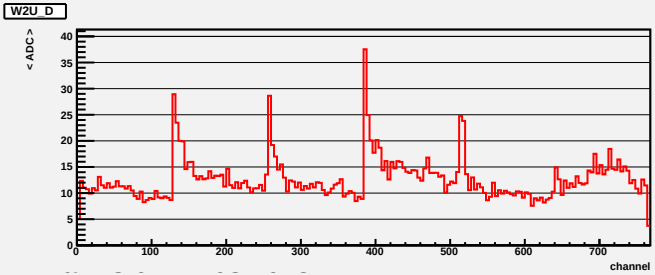
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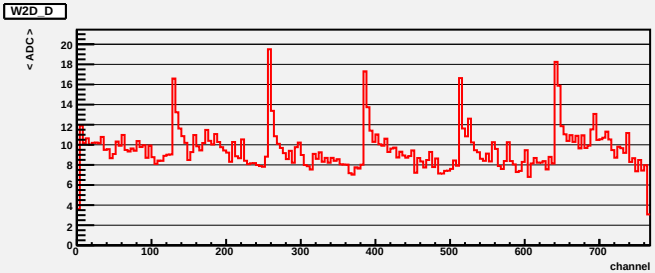
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Fri Mar 13 01:47:08 2015