JevpSummary

Run #16113053: (running for 1804 seconds)

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

```
builder    base: (events 8440, avgtime 0.0000)
builder     bbc: (events 8440, avgtime 0.0001)
builder     daq: (events 8440, avgtime 0.0000)
builder   bemc: (events 5826, avgtime 0.0724)
builder   eemc: (events 8440, avgtime 0.0087)
builder     fpd: (events 8440, avgtime 0.0000)
builder     hlt: (events 8440, avgtime 0.0000)
builder      l3: (events 3567, avgtime 0.1184)
builder     tof: (events 8440, avgtime 0.0005)
builder     mtd: (events 8440, avgtime 0.0001)
builder     tpx: (events 8440, avgtime 0.0154)
builder     trg: (events 8440, avgtime 0.0001)
builder     upc: (events 8440, avgtime 0.0000)
builder     fgt: (events 8440, avgtime 0.0082)
builder     vpd: (events 8440, avgtime 0.0001)
builder     fms: (events 8440, avgtime 0.0002)
builder     fps: (events 8440, avgtime 0.0003)
builder     gmt: (events 8440, avgtime 0.0001)
builder     pxl: (events 7750, avgtime 0.0545)
builder     ist: (events 8440, avgtime 0.0138)
builder     ssd: (events 8440, avgtime 0.0005)
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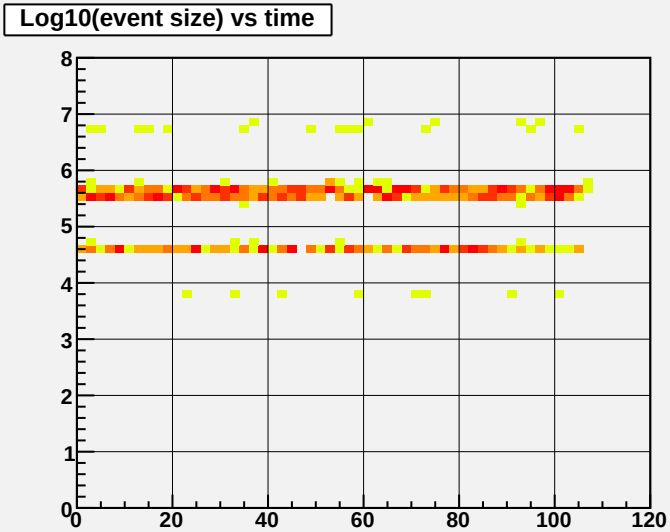
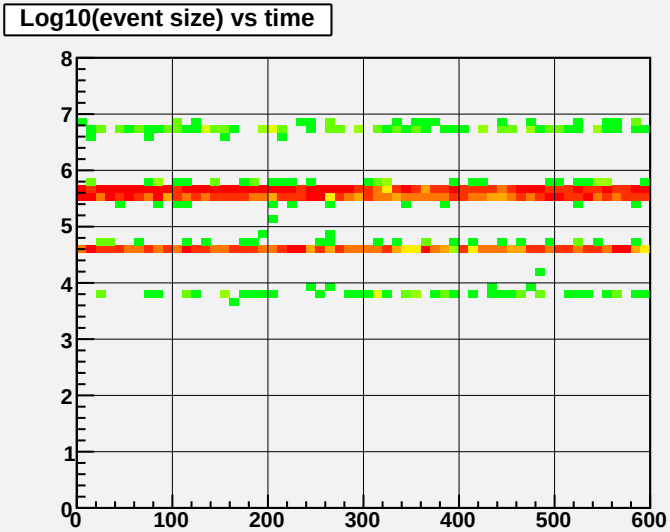
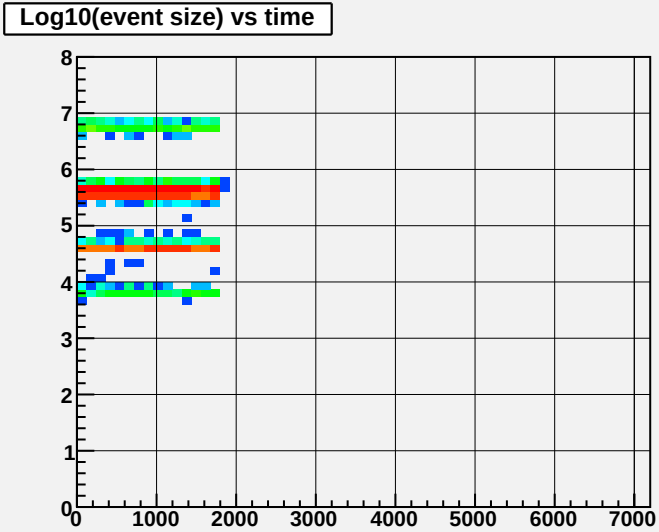
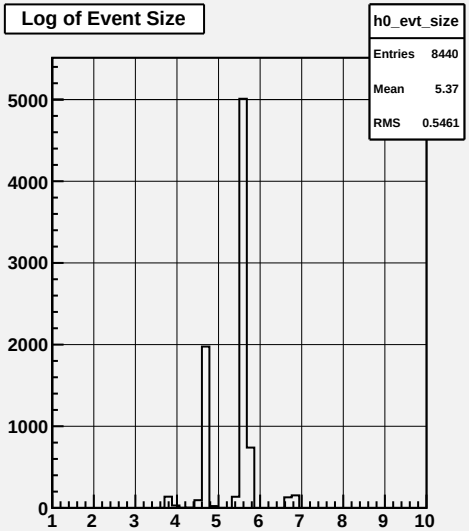
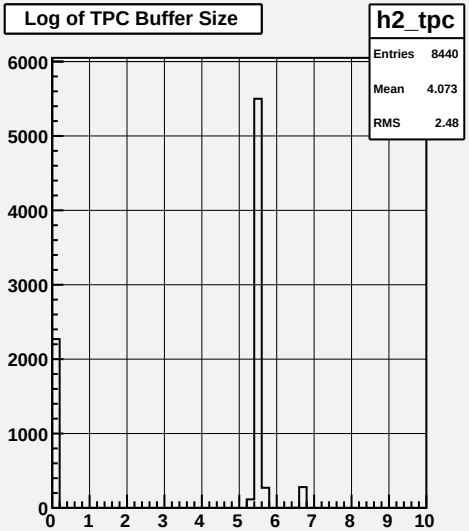

Log10(event size) vs time
0
1
2
3
4
5
6
7
8
0
20
40
60
80
100
120


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


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



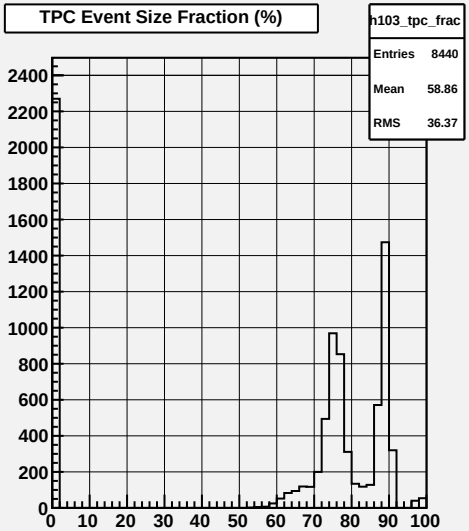


daq_h12_l3_evsize

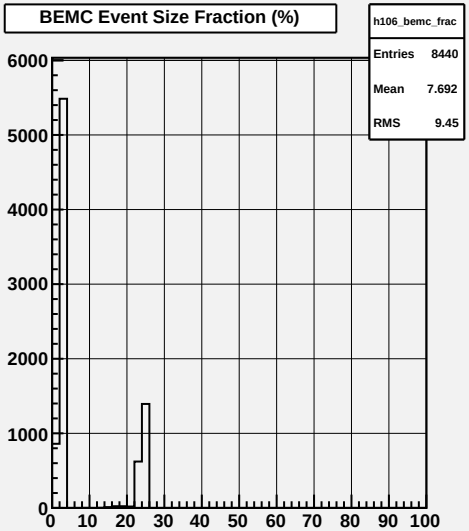
daq_h10_bemc_evsize

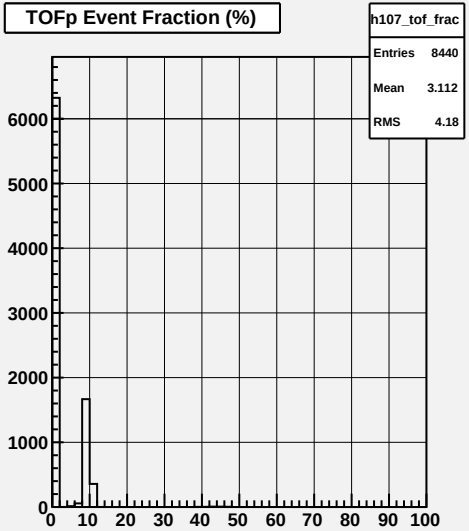
daq_h14_tof_evsize

daq_h11_ftp_evsize

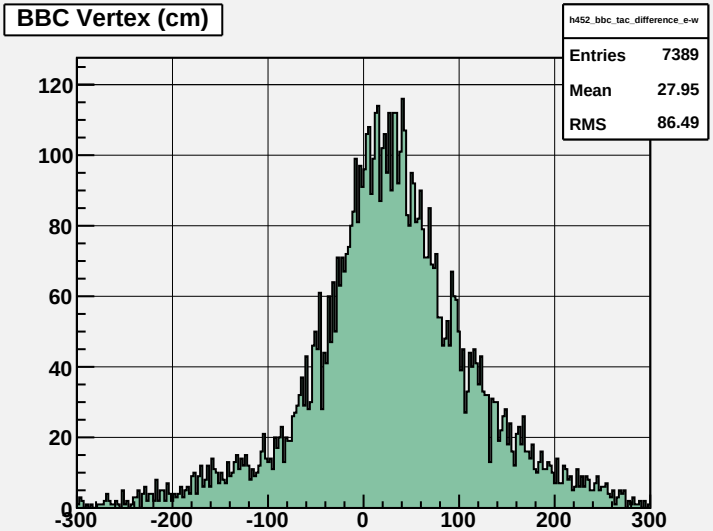


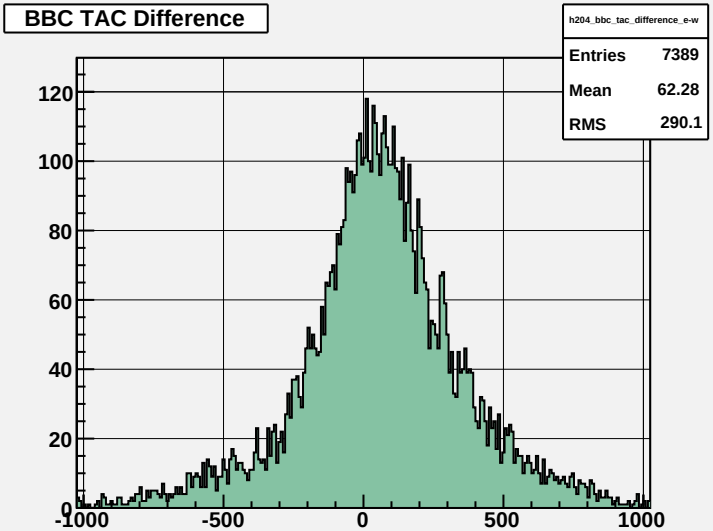
daq_h108_l3_frac

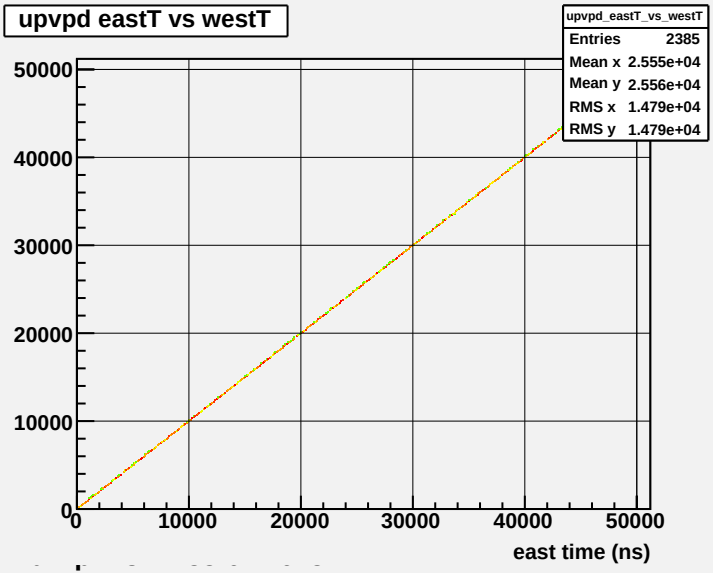


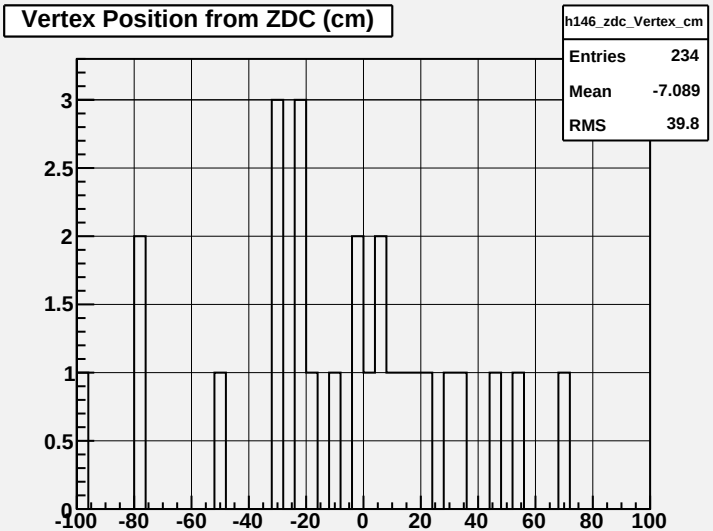


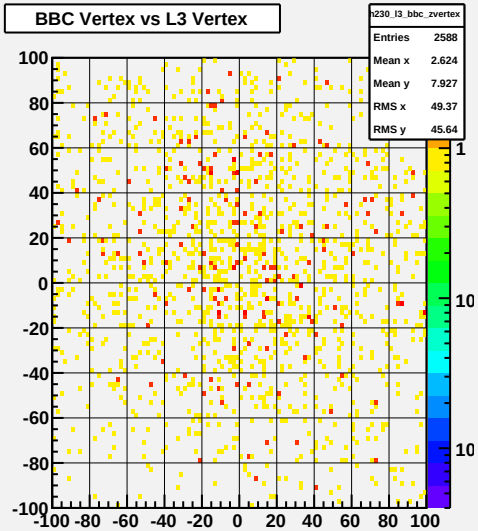
daq_h105_ftp_frac

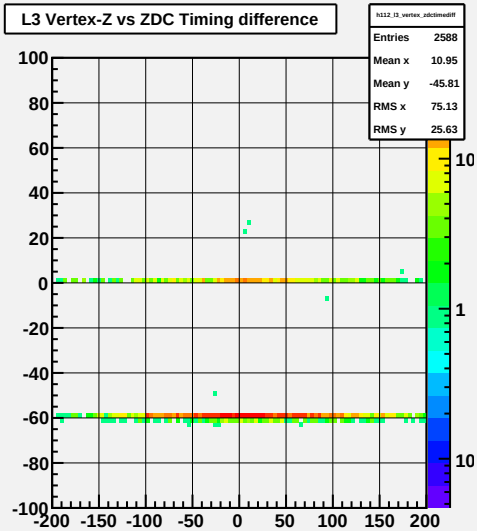

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 7389
Mean 27.95
RMS 86.49
120
100
80
60
40
20
0
-300
-200
-100
0
100
200
300

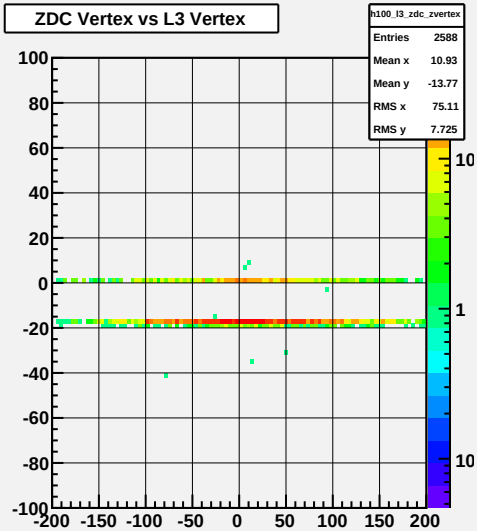

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 7389
Mean 62.28
RMS 290.1
120
100
80
60
40
20
0
-1000
-500
0
500
1000

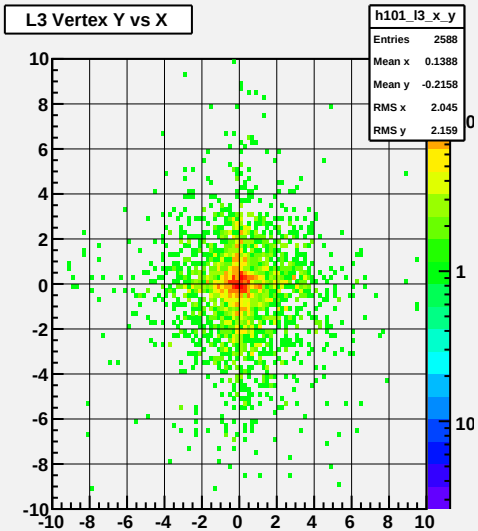

upvpd eastT vs westT
upvpd_eastT_vs_westT
Entries 2385
Mean x 2.555e+04
Mean y 2.556e+04
RMS x 1.479e+04
RMS y 1.479e+04
50000
40000
30000
20000
10000
0
0
10000
20000
30000
40000
50000
east time (ns)

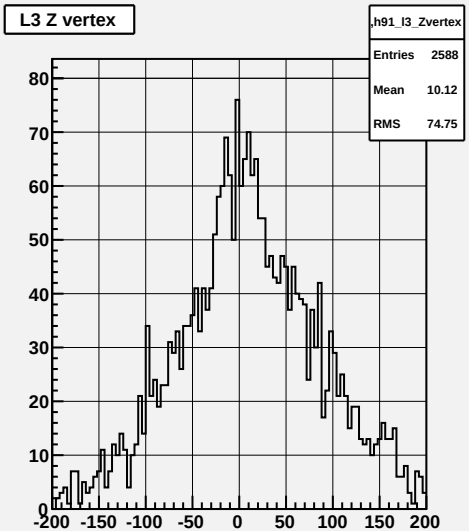

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 234
Mean -7.089
RMS 39.8
3
2.5
2
1.5
1
0.5
0
-100
-80
-60
-40
-20
0
20
40
60
80
100

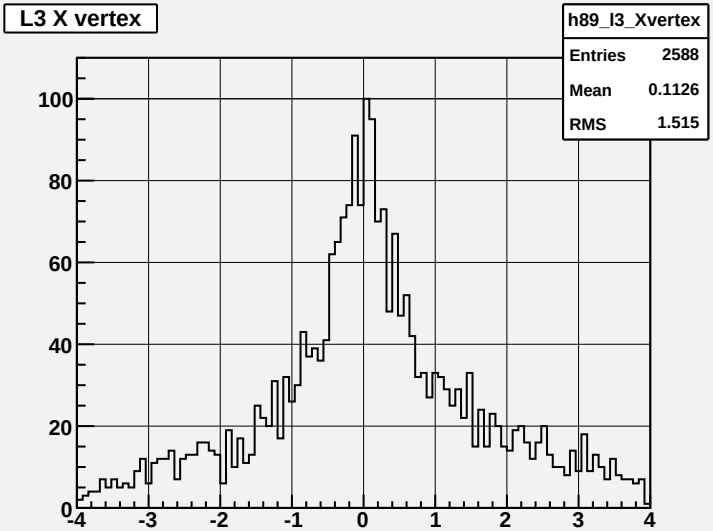

BBC Vertex vs L3 Vertex
h230_l3_bbc_zvertex
Entries 2588
Mean x 2.624
Mean y 7.927
RMS x 49.37
RMS y 45.64

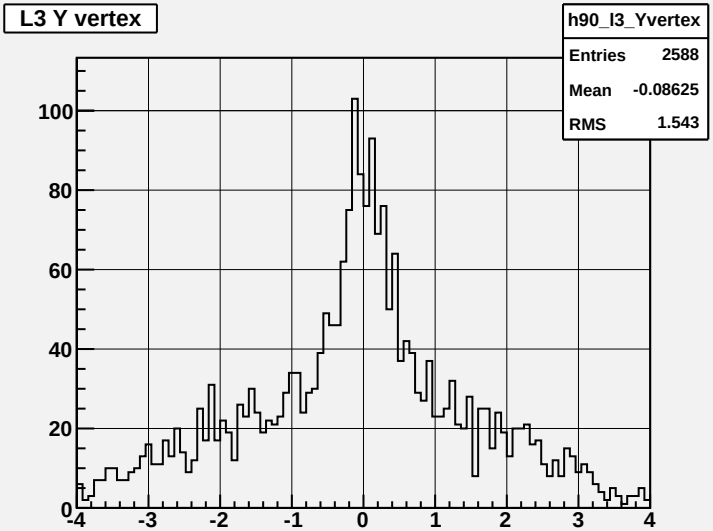

L3 Vertex-Z vs ZDC Timing difference
h112_l3_vertex_zdctimediff
Entries 2588
Mean x 10.95
Mean y -45.81
RMS x 75.13
RMS y 25.63

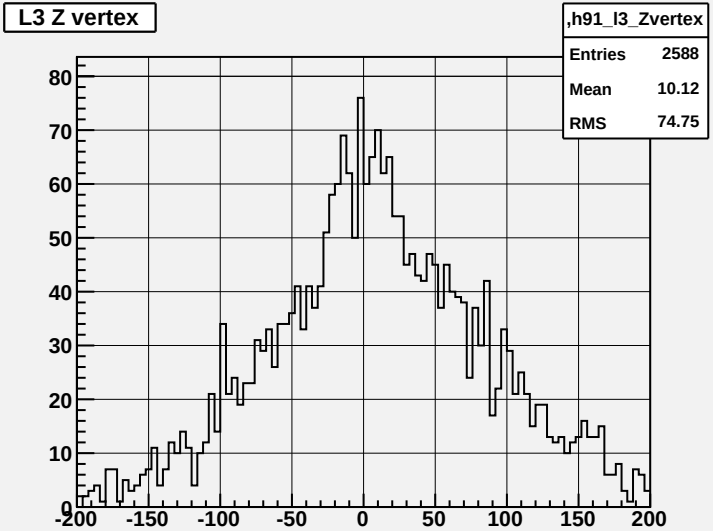

ZDC Vertex vs L3 Vertex
h100_l3_zdc_zvertex
Entries 2588
Mean x 10.93
Mean y -13.77
RMS x 75.11
RMS y 7.725

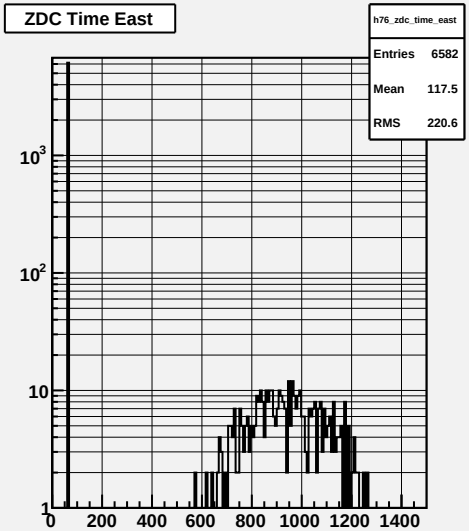

L3 Vertex Y vs X
h101_l3_x_y
Entries 2588
Mean x 0.1388
Mean y -0.2158
RMS x 2.045
RMS y 2.159

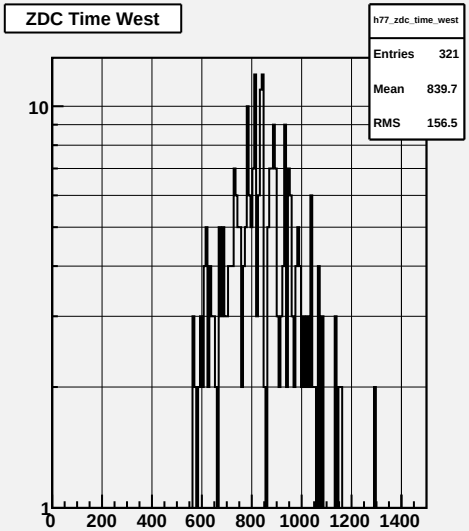

L3 Z vertex
h91_l3_Zvertex
Entries 2588
Mean 10.12
RMS 74.75

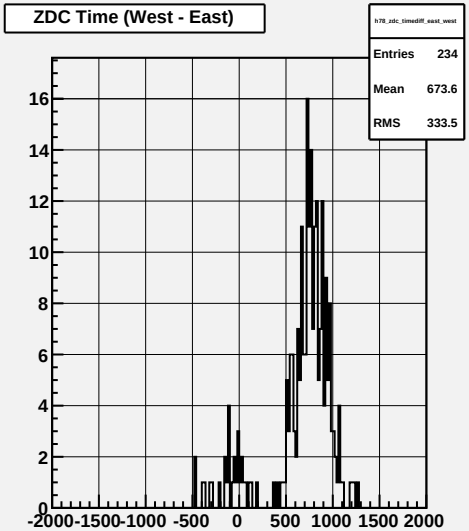

L3 X vertex
h89_l3_Xvertex
Entries 2588
Mean 0.1126
RMS 1.515
100
80
60
40
20
0
-4
-3
-2
-1
0
1
2
3
4

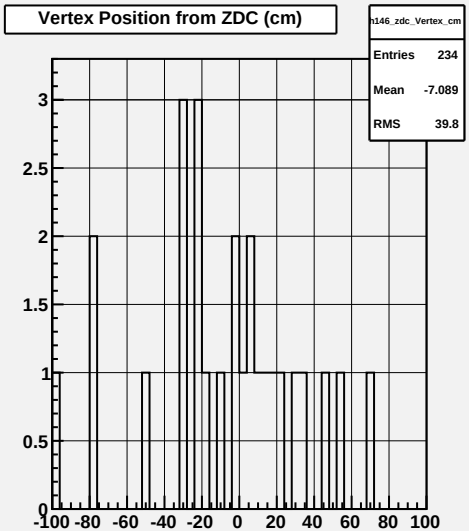

L3 Y vertex
h90_l3_Yvertex
Entries 2588
Mean -0.08625
RMS 1.543
100
80
60
40
20
0
-4
-3
-2
-1
0
1
2
3
4

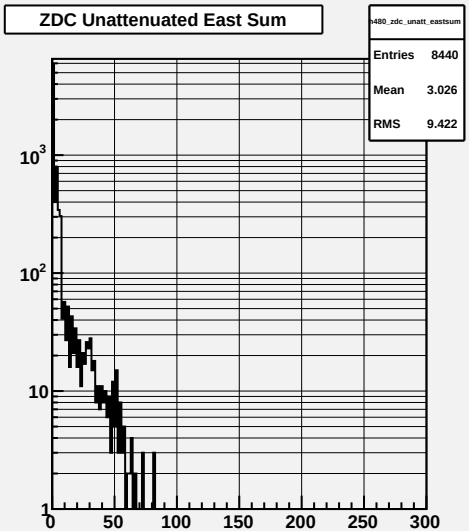

L3 Z vertex
,h91_l3_Zvertex
Entries 2588
Mean 10.12
RMS 74.75
80
70
60
50
40
30
20
10
0
-200
-150
-100
-50
0
50
100
150
200

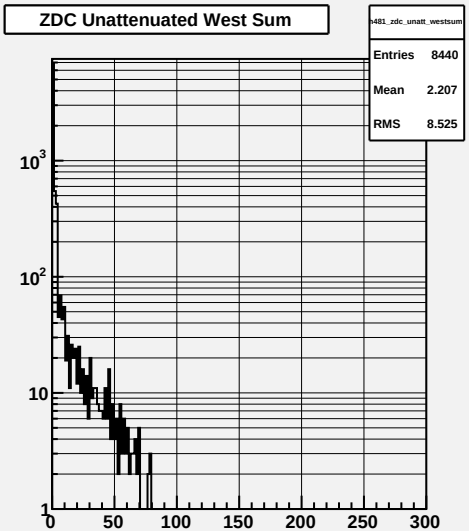

ZDC Time East
h76_zdc_time_east
Entries 6582
Mean 117.5
RMS 220.6

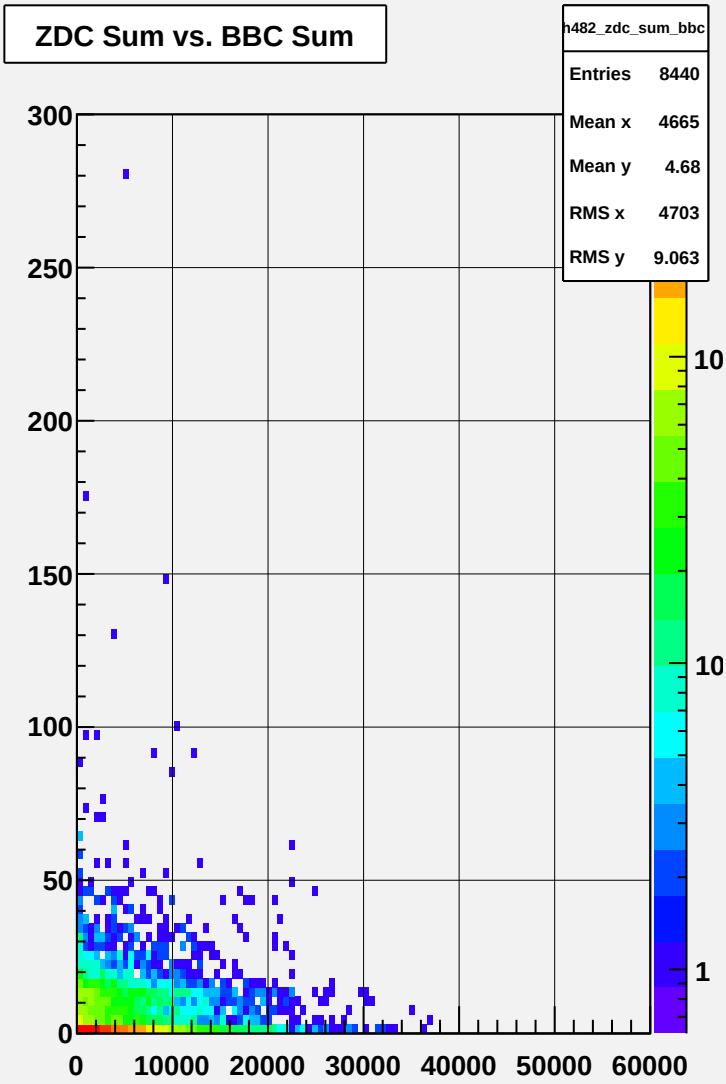

ZDC Time West
h77_zdc_time_west
Entries 321
Mean 839.7
RMS 156.5

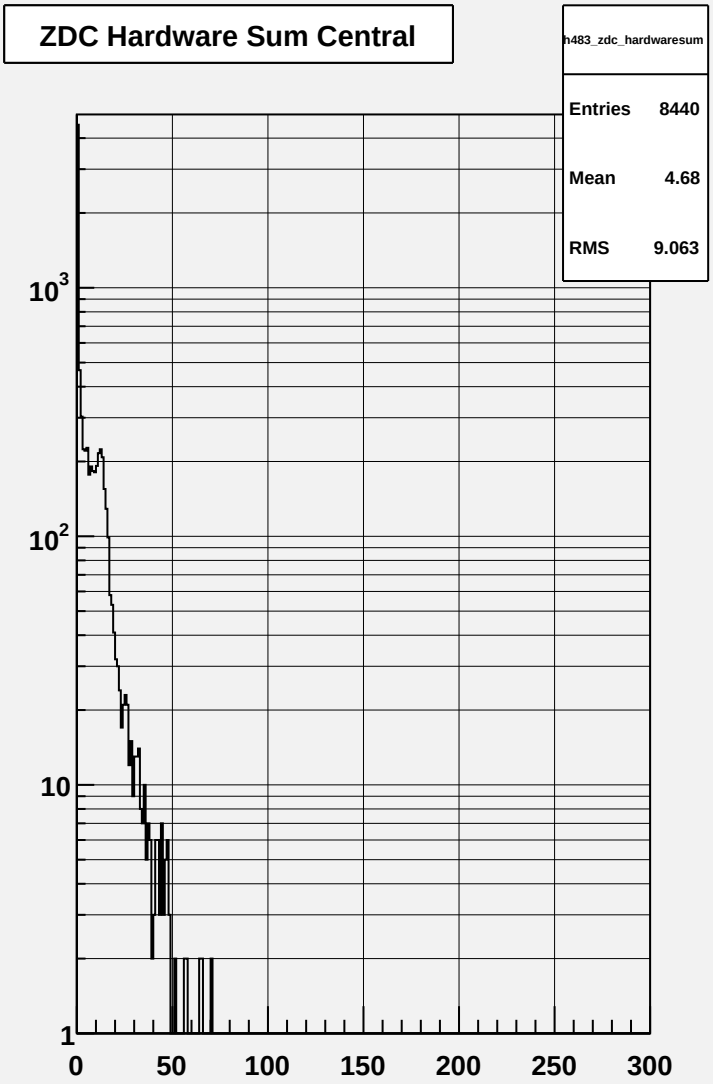

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 234
Mean 673.6
RMS 333.5

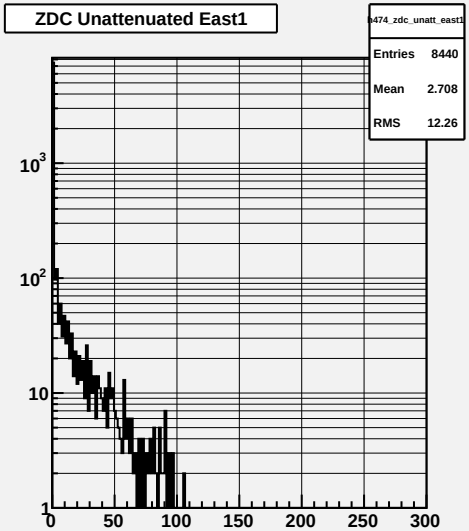

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 234
Mean -7.089
RMS 39.8

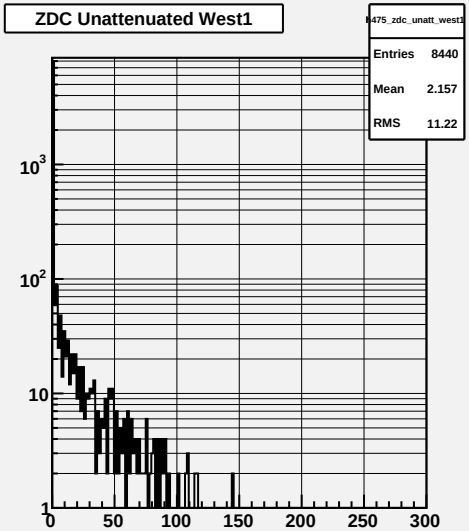

ZDC Unattenuated East Sum
h480_zdc_unatt_eastsum
Entries 8440
Mean 3.026
RMS 9.422

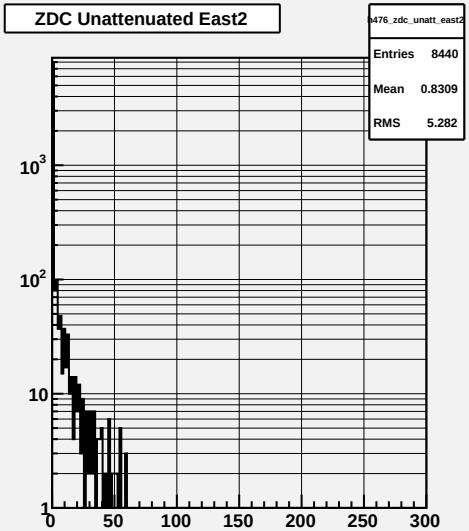

ZDC Unattenuated West Sum
h481_zdc_unatt_westsum
Entries 8440
Mean 2.207
RMS 8.525

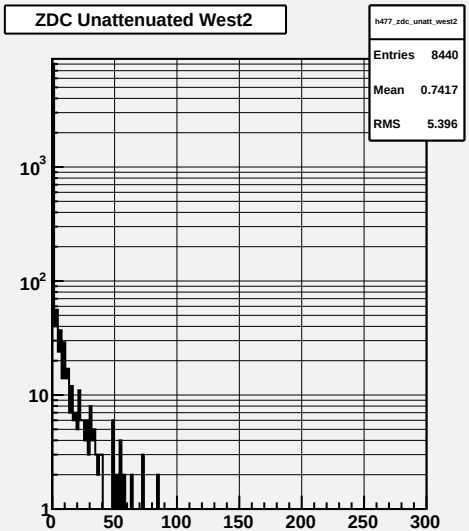

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 8440
Mean x 4665
Mean y 4.68
RMS x 4703
RMS y 9.063
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
10
1

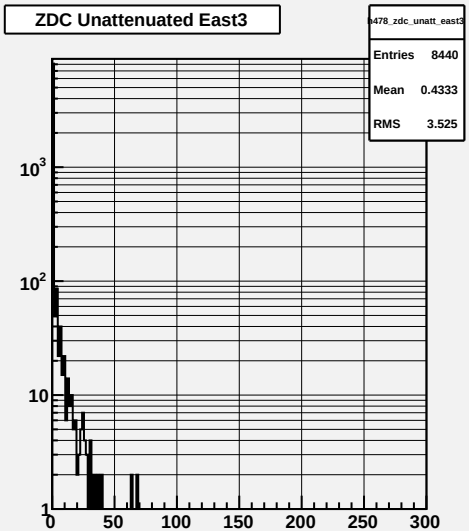

ZDC Hardware Sum Central
h483_zdc_hardwaresum
Entries 8440
Mean 4.68
RMS 9.063
10^3
10^2
10
1
0
50
100
150
200
250
300

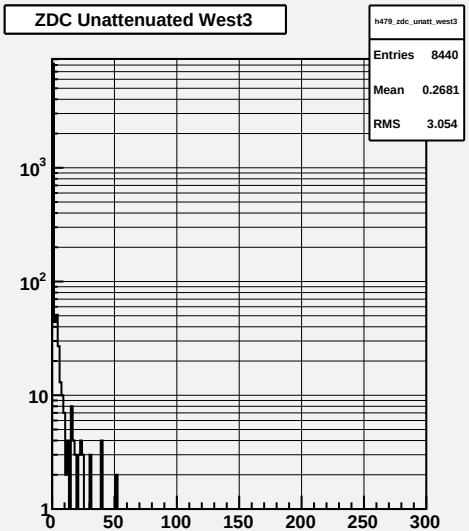

ZDC Unattenuated East1
h474_zdc_unatt_east1
Entries 8440
Mean 2.708
RMS 12.26

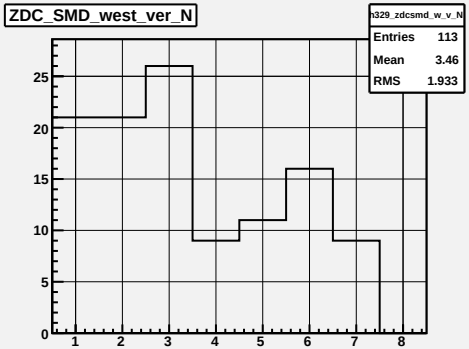

ZDC Unattenuated West1
h475_zdc_unatt_west1
Entries 8440
Mean 2.157
RMS 11.22

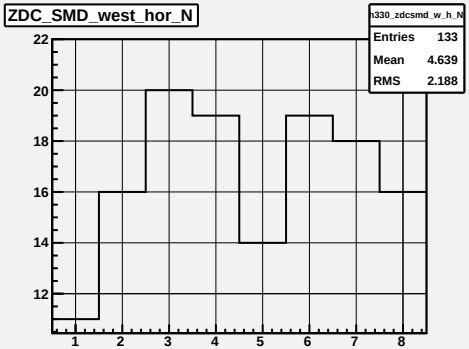

ZDC Unattenuated East2
h476_zdc_unatt_east2
Entries 8440
Mean 0.8309
RMS 5.282

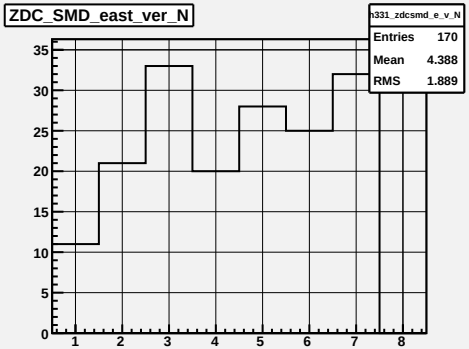

ZDC Unattenuated West2
h477_zdc_unatt_west2
Entries 8440
Mean 0.7417
RMS 5.396

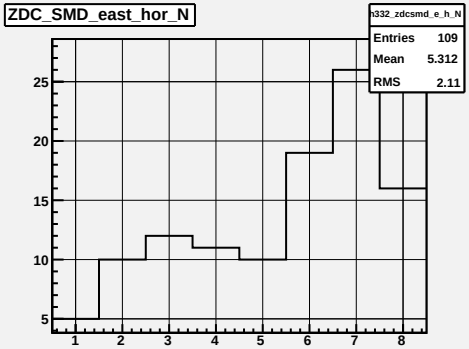

ZDC Unattenuated East3
h478_zdc_unatt_east3
Entries 8440
Mean 0.4333
RMS 3.525

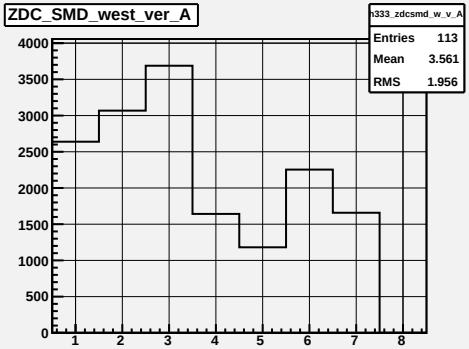

ZDC Unattenuated West3
h479_zdc_unatt_west3
Entries 8440
Mean 0.2681
RMS 3.054

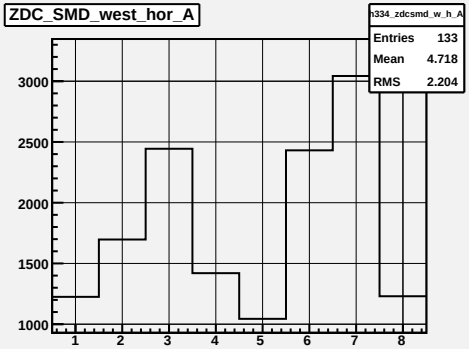

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 113
Mean 3.46
RMS 1.933

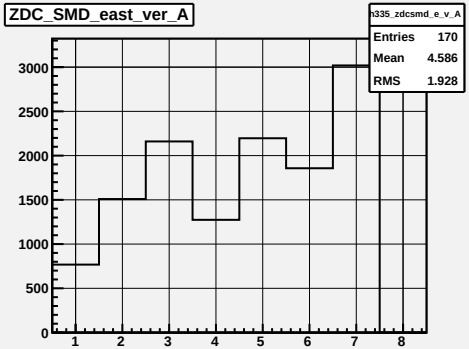

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 133
Mean 4.639
RMS 2.188

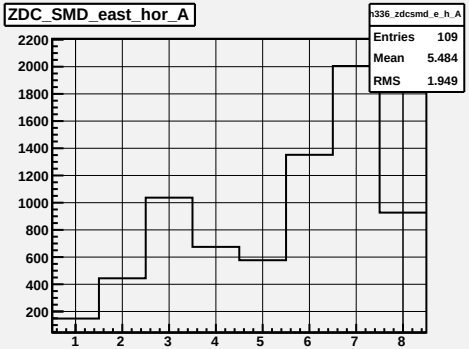

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 170
Mean 4.388
RMS 1.889

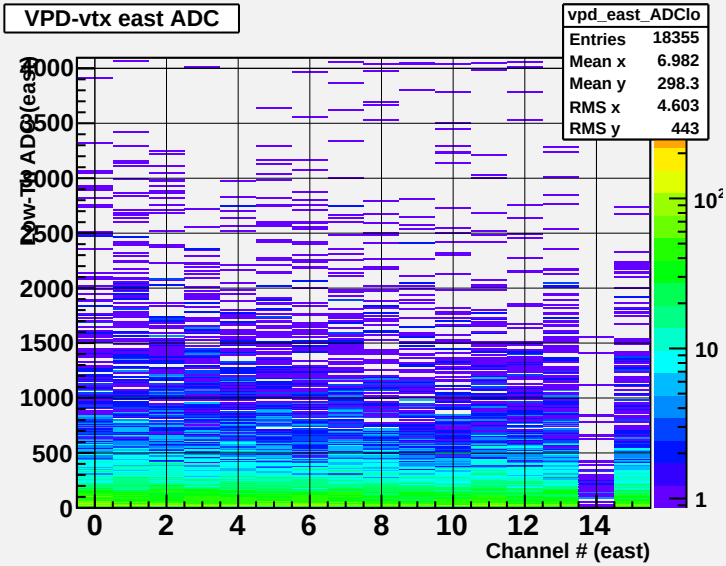

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 109
Mean 5.312
RMS 2.11

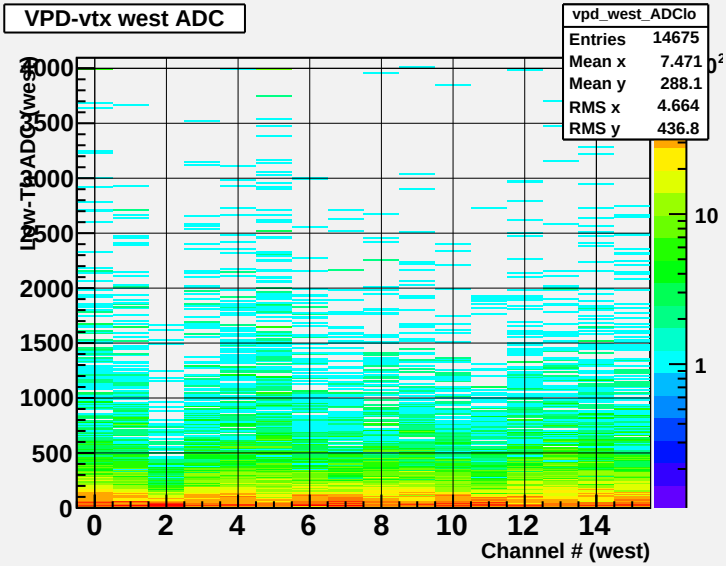

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 113
Mean 3.561
RMS 1.956

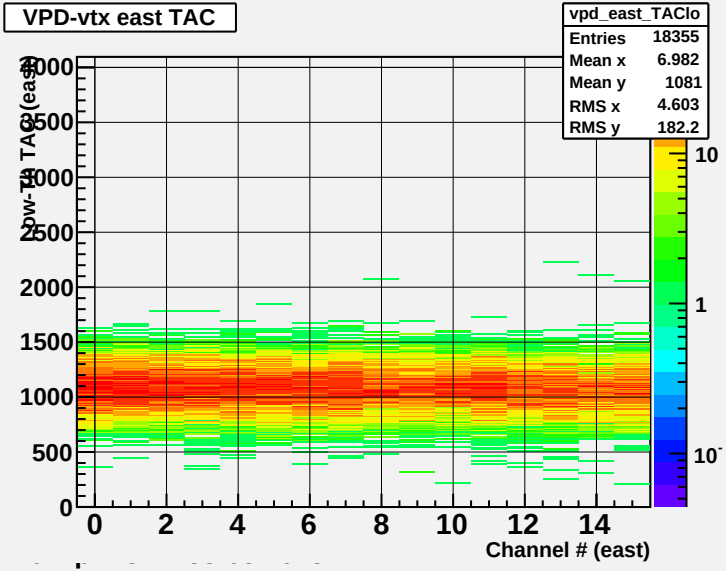

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 133
Mean 4.718
RMS 2.204

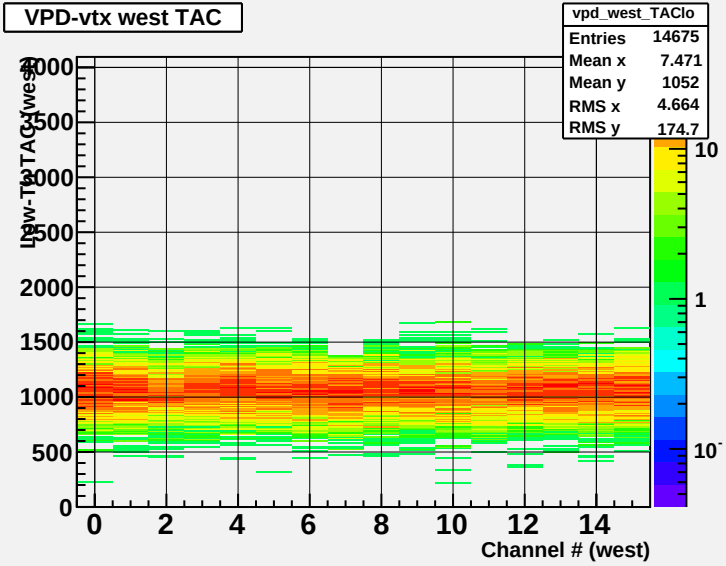

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 170
Mean 4.586
RMS 1.928

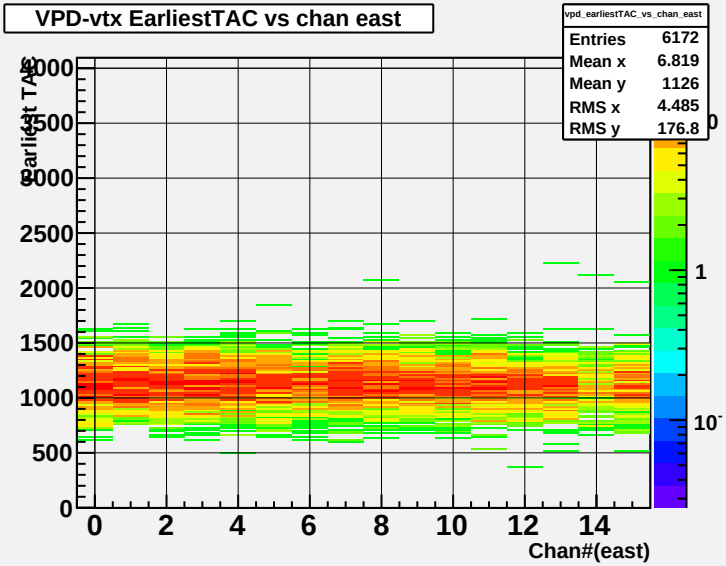

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 109
Mean 5.484
RMS 1.949

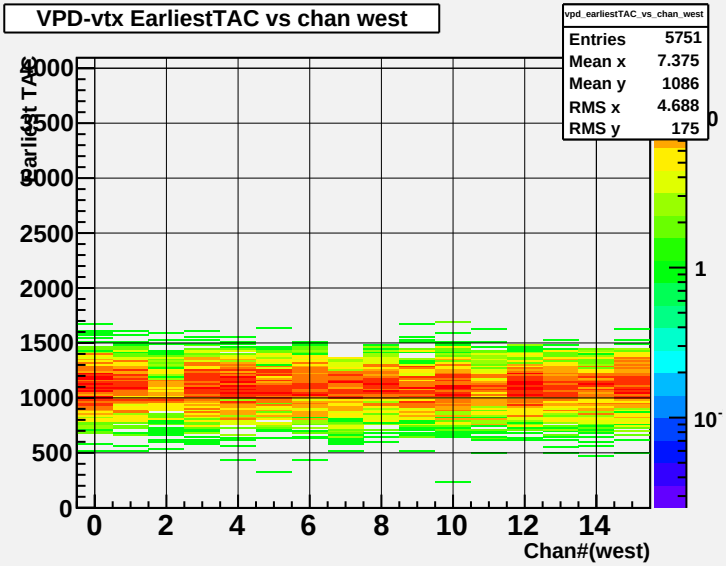

VPD-vtx east ADC
vpd_east_ADClo
Entries 18355
Mean x 6.982
Mean y 298.3
RMS x 4.603
RMS y 443
Low-Tw ADC (east)
Channel # (east)

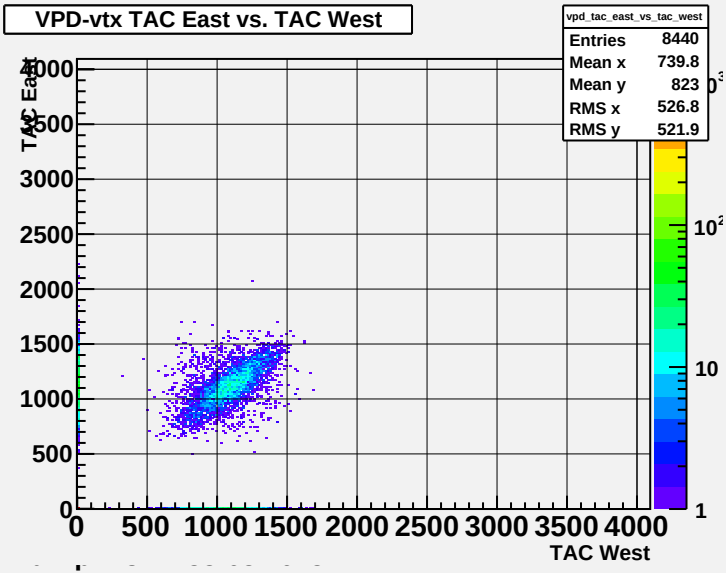

VPD-vtx west ADC
vpd_west_ADClo
Entries 14675
Mean x 7.471
Mean y 288.1
RMS x 4.664
RMS y 436.8
Low-Tw ADC (west)
Channel # (west)

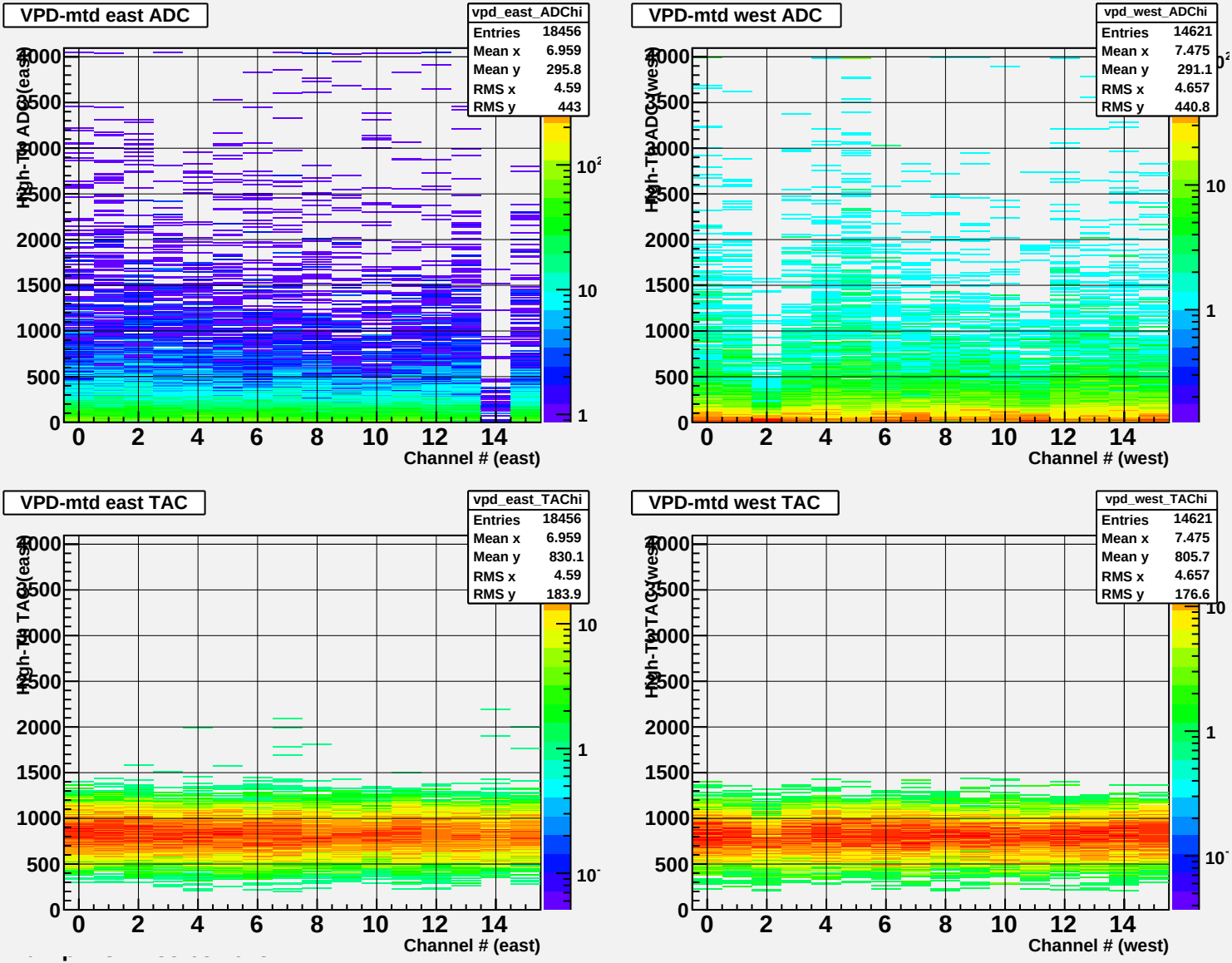

VPD-vtx east TAC
vpd_east_TAClo
Entries 18355
Mean x 6.982
Mean y 1081
RMS x 4.603
RMS y 182.2
Low-Tw TAC (east)
Channel # (east)

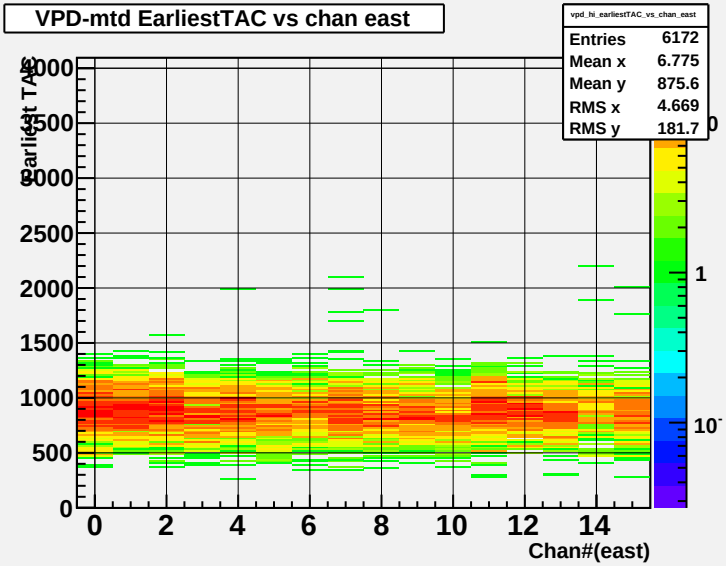

VPD-vtx west TAC
vpd_west_TAClo
Entries 14675
Mean x 7.471
Mean y 1052
RMS x 4.664
RMS y 174.7
Low-Tw TAC (west)
Channel # (west)

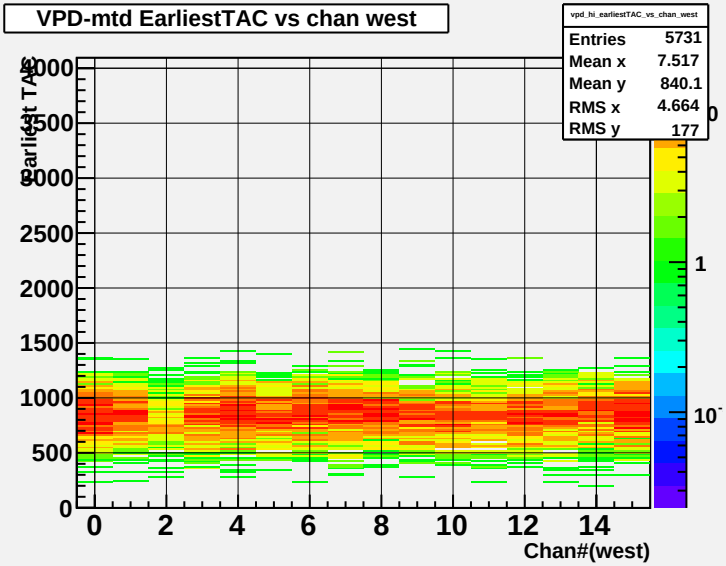

VPD-vtx EarliestTAC vs chan east
vpd_earliestTAC_vs_chan_east
Entries 6172
Mean x 6.819
Mean y 1126
RMS x 4.485
RMS y 176.8
Earliest TAC
Chan#(east)

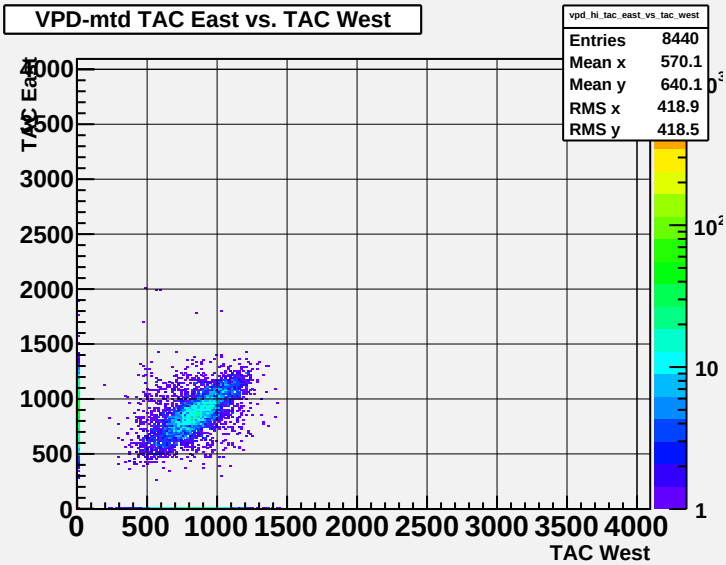

VPD-vtx EarliestTAC vs chan west
vpd_earliestTAC_vs_chan_west
Entries 5751
Mean x 7.375
Mean y 1086
RMS x 4.688
RMS y 175
Earliest TAC
Chan#(west)

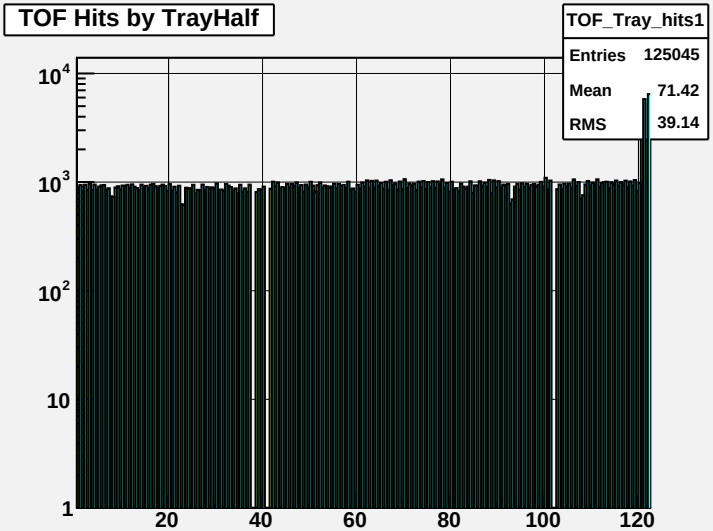

VPD-vtx TAC East vs. TAC West
vpd_tac_east_vs_tac_west
Entries 8440
Mean x 739.8
Mean y 823
RMS x 526.8
RMS y 521.9
TAC East
TAC West

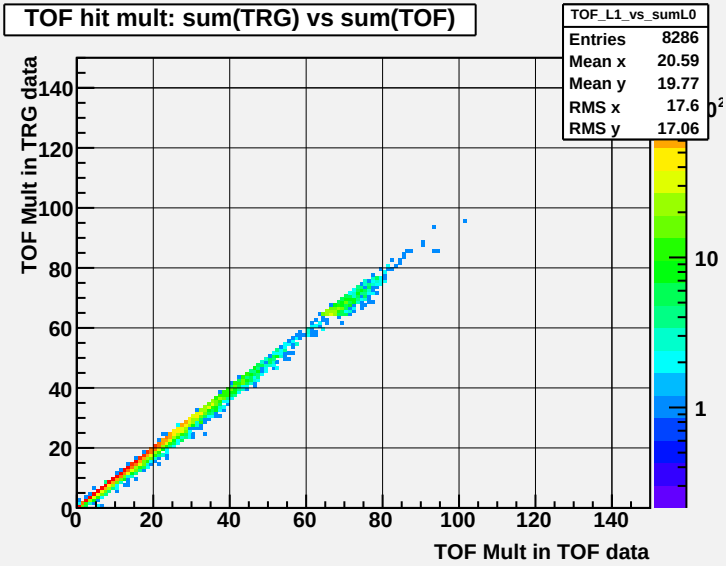

VPD-mtd east ADC
vpd_east_ADChi
Entries 18456
Mean x 6.959
Mean y 295.8
RMS x 4.59
RMS y 443
High-Tu ADC (east)
Channel # (east)
VPD-mtd west ADC
vpd_west_ADChi
Entries 14621
Mean x 7.475
Mean y 291.1
RMS x 4.657
RMS y 440.8
High-Tu ADC (west)
Channel # (west)
VPD-mtd east TAC
vpd_east_TAChi
Entries 18456
Mean x 6.959
Mean y 830.1
RMS x 4.59
RMS y 183.9
High-Tu TAC (east)
Channel # (east)
VPD-mtd west TAC
vpd_west_TAChi
Entries 14621
Mean x 7.475
Mean y 805.7
RMS x 4.657
RMS y 176.6
High-Tu TAC (west)
Channel # (west)

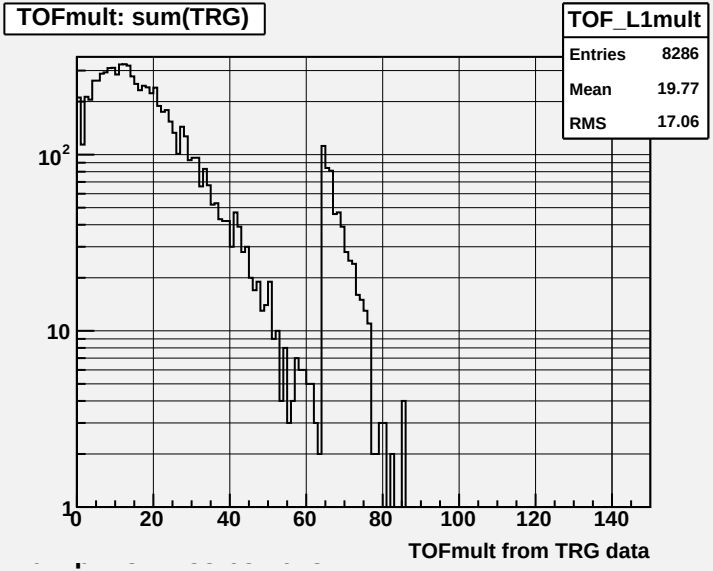

VPD-mtd EarliestTAC vs chan east
vpd_hi_earliestTAC_vs_chan_east
Entries 6172
Mean x 6.775
Mean y 875.6
RMS x 4.669
RMS y 181.7
Earliest TAC
Chan#(east)

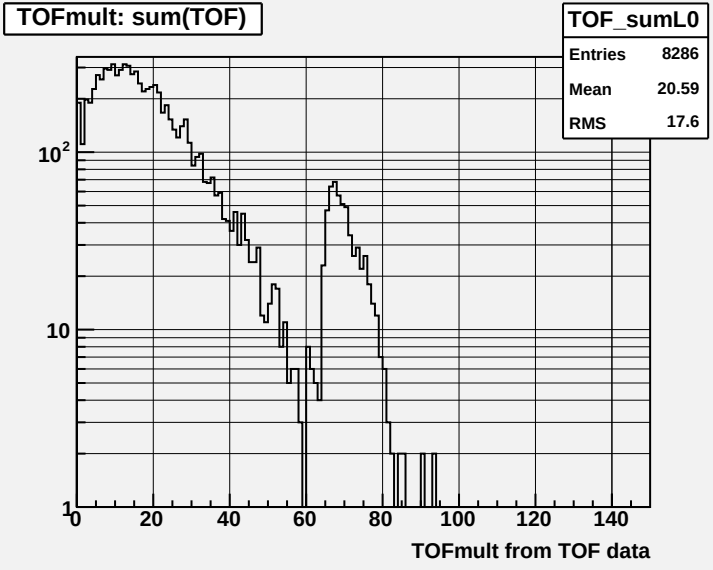

VPD-mtd EarliestTAC vs chan west
vpd_hi_earliestTAC_vs_chan_west
Entries 5731
Mean x 7.517
Mean y 840.1
RMS x 4.664
RMS y 177
Earliest TAC
Chan#(west)

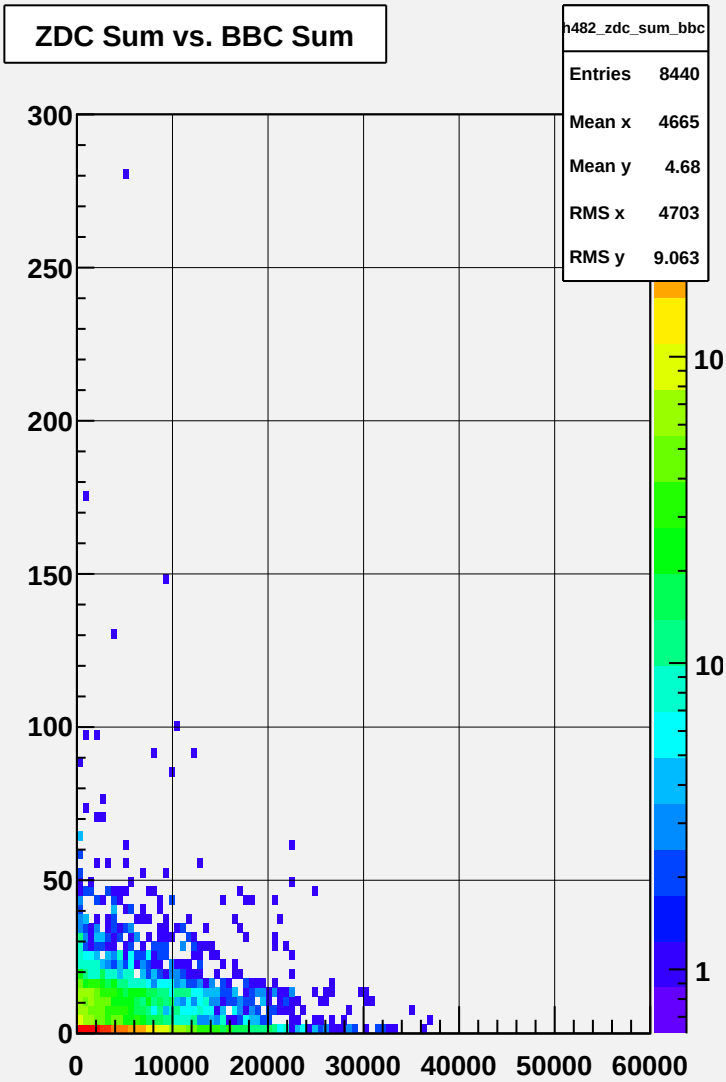

VPD-mtd TAC East vs. TAC West
vpd_hi_tac_east_vs_tac_west
Entries 8440
Mean x 570.1
Mean y 640.1
RMS x 418.9
RMS y 418.5
TAC East
TAC West

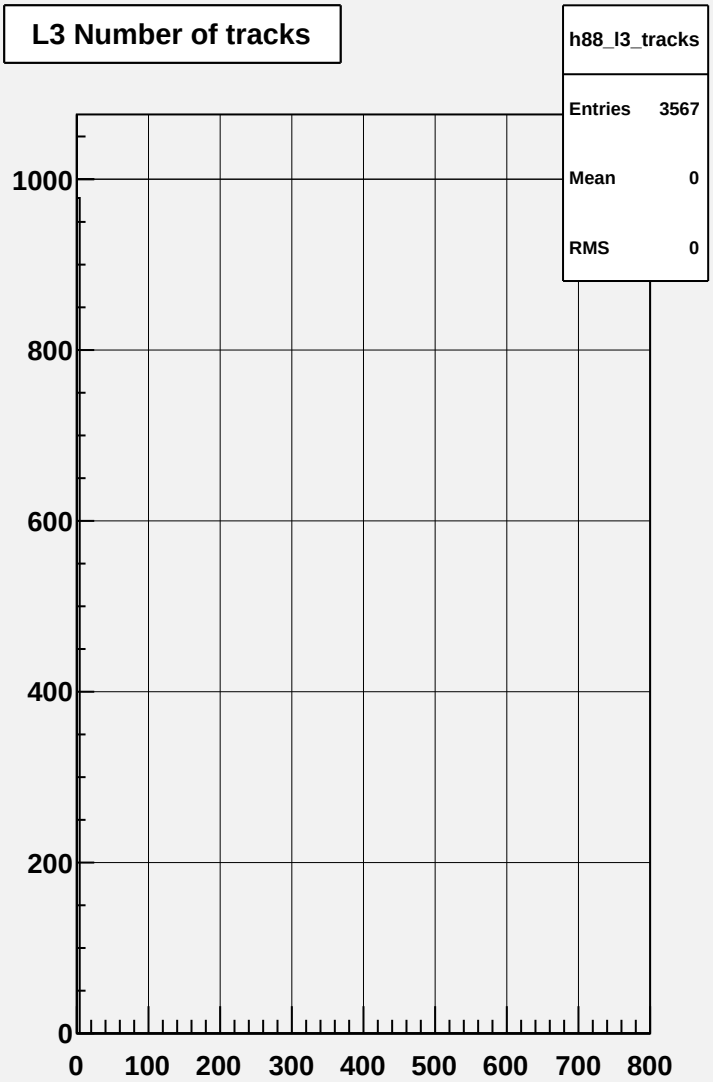

TOF Hits by TrayHalf
TOF_Tray_hits1
Entries 125045
Mean 71.42
RMS 39.14

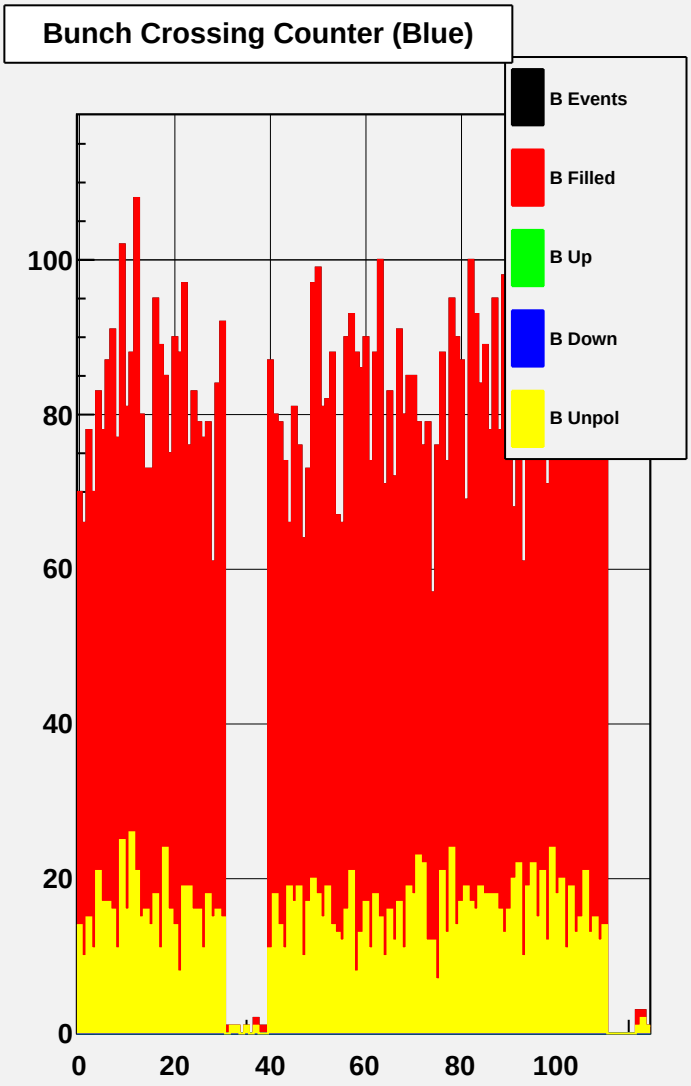

TOF hit mult: sum(TRG) vs sum(TOF)
TOF_L1_vs_sumL0
Entries 8286
Mean x 20.59
Mean y 19.77
RMS x 17.6
RMS y 17.06
TOF Mult in TRG data
TOF Mult in TOF data

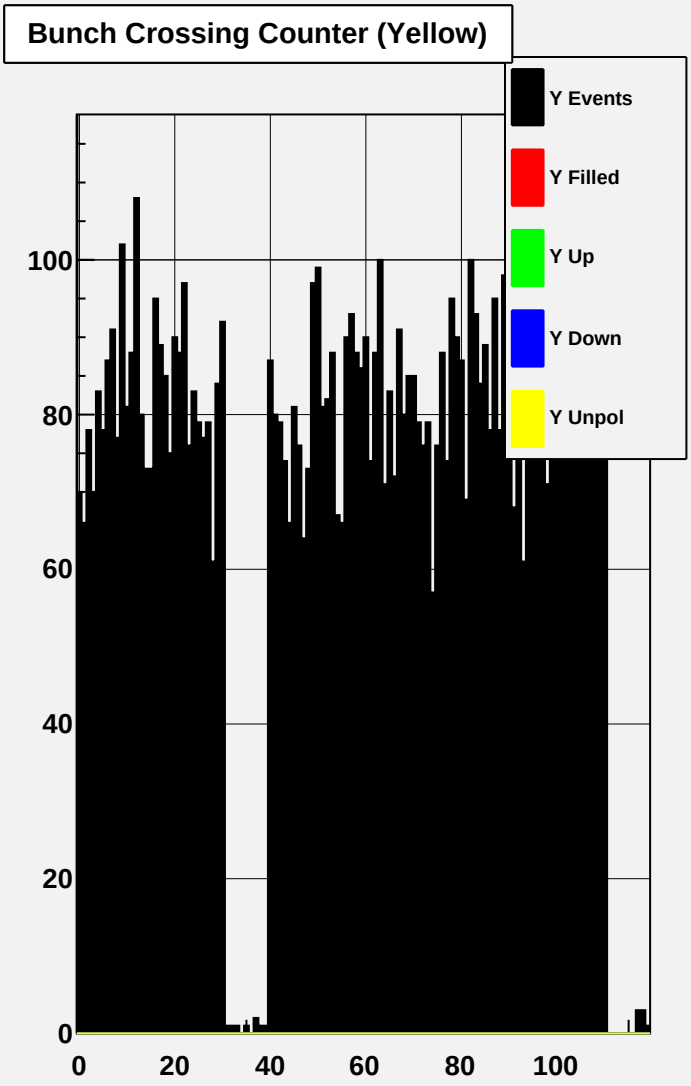

TOFmult: sum(TRG)
TOF_L1mult
Entries 8286
Mean 19.77
RMS 17.06
TOFmult from TRG data

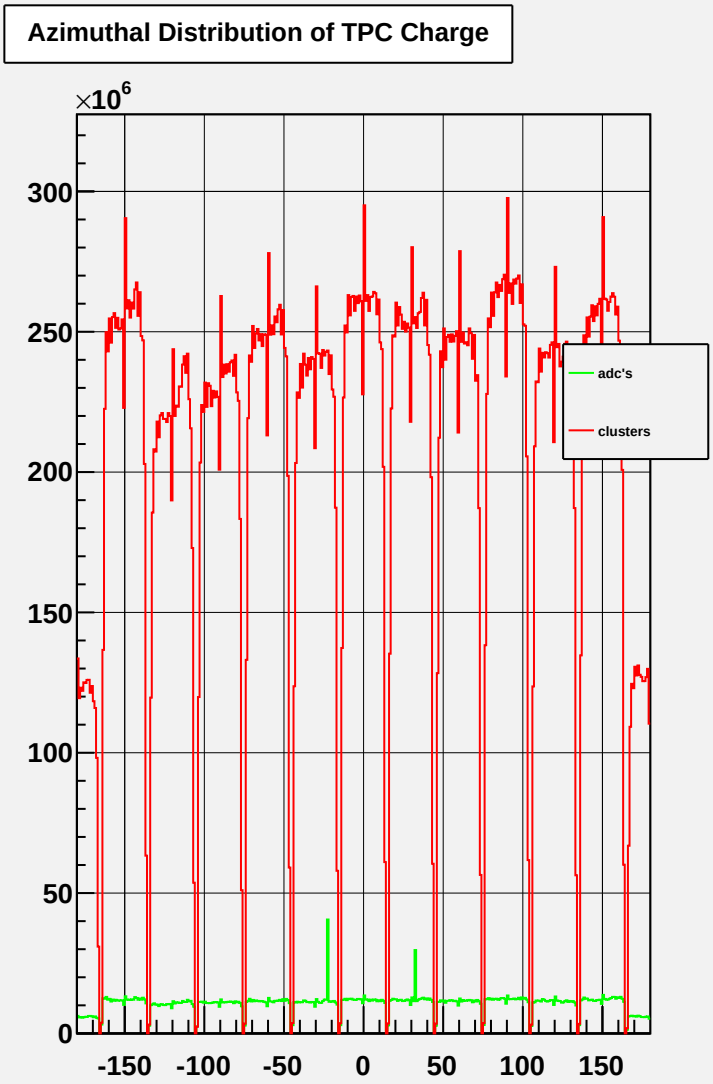

TOFmult: sum(TOF)
TOF_sumL0
Entries 8286
Mean 20.59
RMS 17.6
TOFmult from TOF data

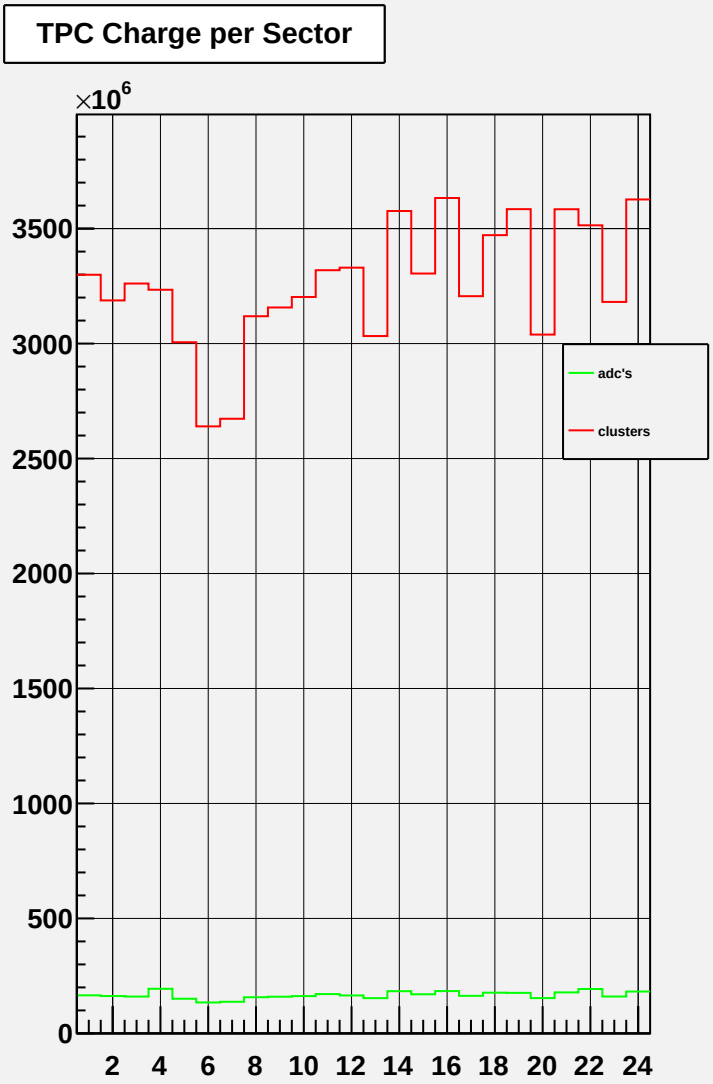

ZDC Sum vs. BBC Sum
h482_zdc_sum_bbc
Entries 8440
Mean x 4665
Mean y 4.68
RMS x 4703
RMS y 9.063
300
250
200
150
100
50
0
0
10000
20000
30000
40000
50000
60000
10
10
1

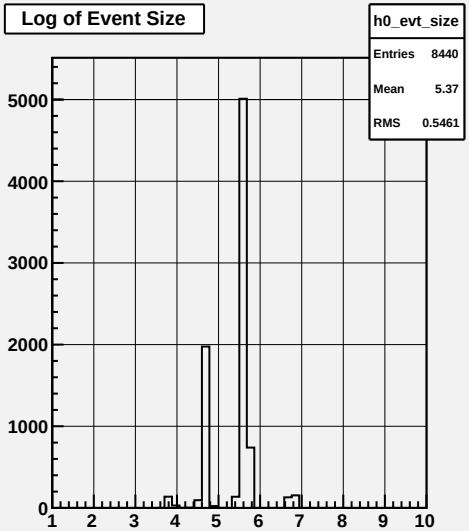

L3 Number of tracks
h88_l3_tracks
Entries 3567
Mean 0
RMS 0
1000
800
600
400
200
0
0
100
200
300
400
500
600
700
800

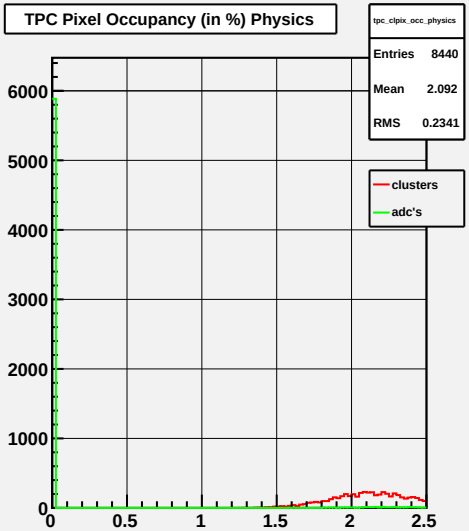

Bunch Crossing Counter (Blue)
B Events
B Filled
B Up
B Down
B Unpol
0
20
40
60
80
100
0
20
40
60
80
100

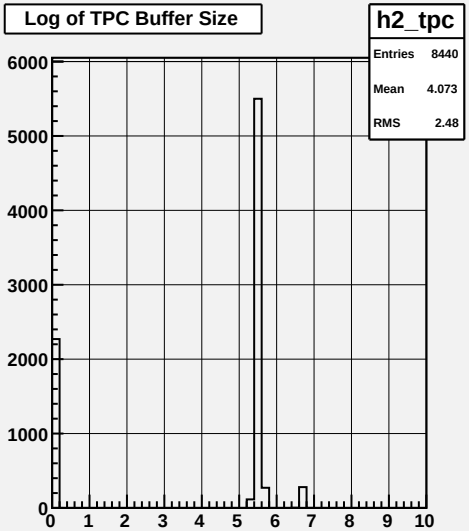

Bunch Crossing Counter (Yellow)
Y Events
Y Filled
Y Up
Y Down
Y Unpol
0
20
40
60
80
100
0
20
40
60
80
100

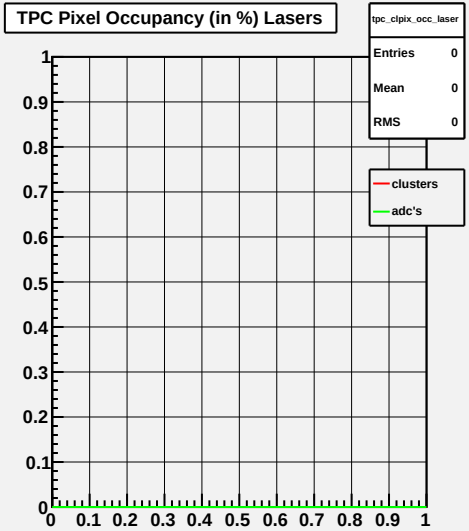

Azimuthal Distribution of TPC Charge
×10^6
300
250
200
150
100
50
0
-150
-100
-50
0
50
100
150
adc's
clusters

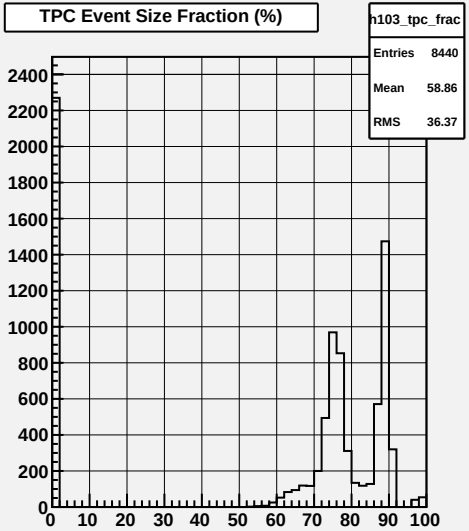

TPC Charge per Sector
×10^6
3500
3000
2500
2000
1500
1000
500
0
2
4
6
8
10
12
14
16
18
20
22
24
adc's
clusters

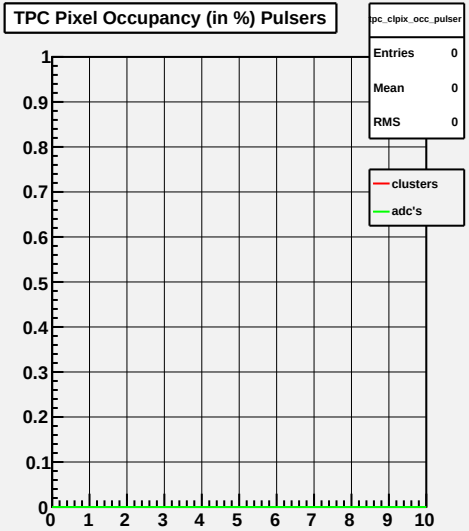

Log of Event Size
h0_evt_size
Entries 8440
Mean 5.37
RMS 0.5461

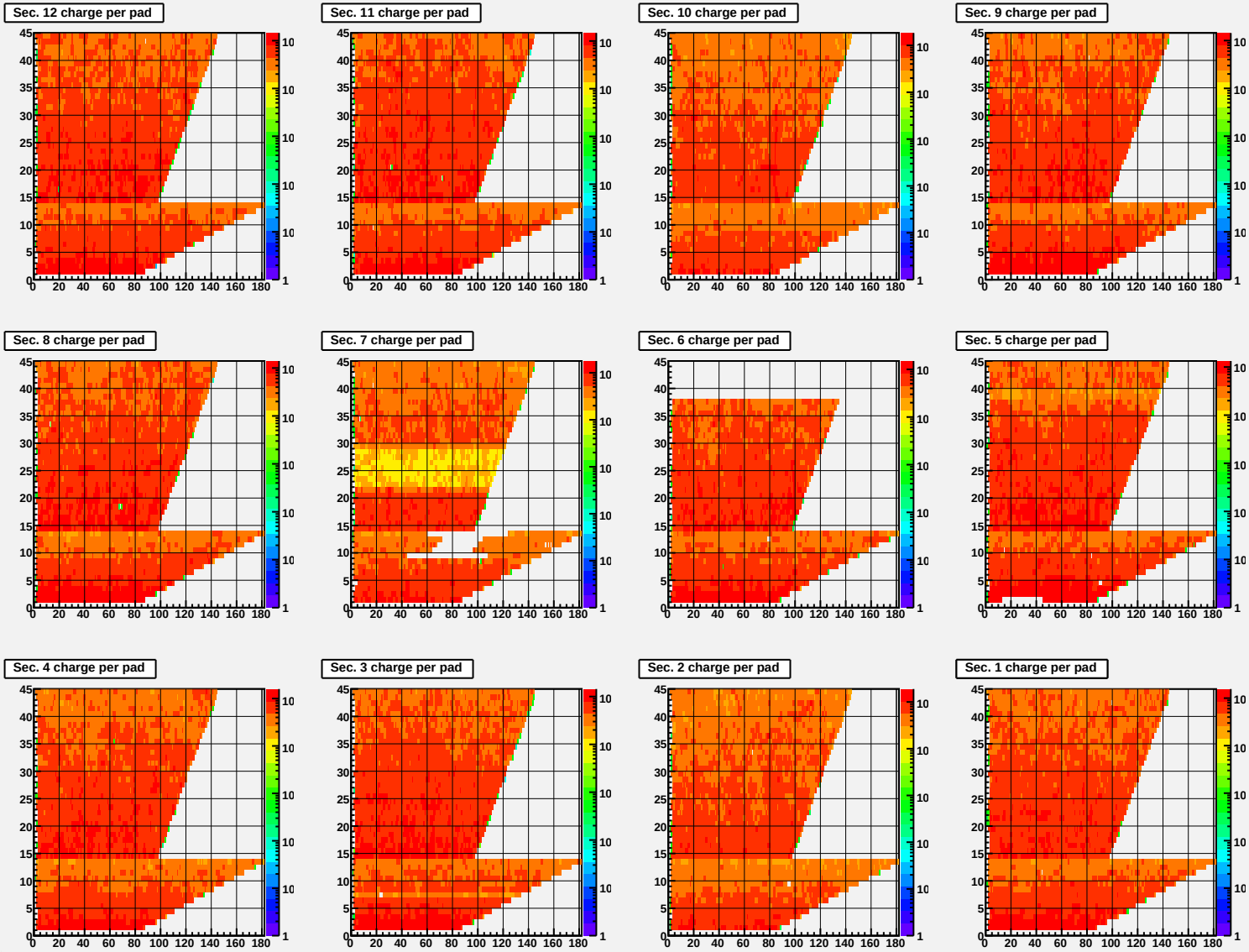

TPC Pixel Occupancy (in %) Physics
tpc_clpix_occ_physics
Entries 8440
Mean 2.092
RMS 0.2341
clusters
adc's

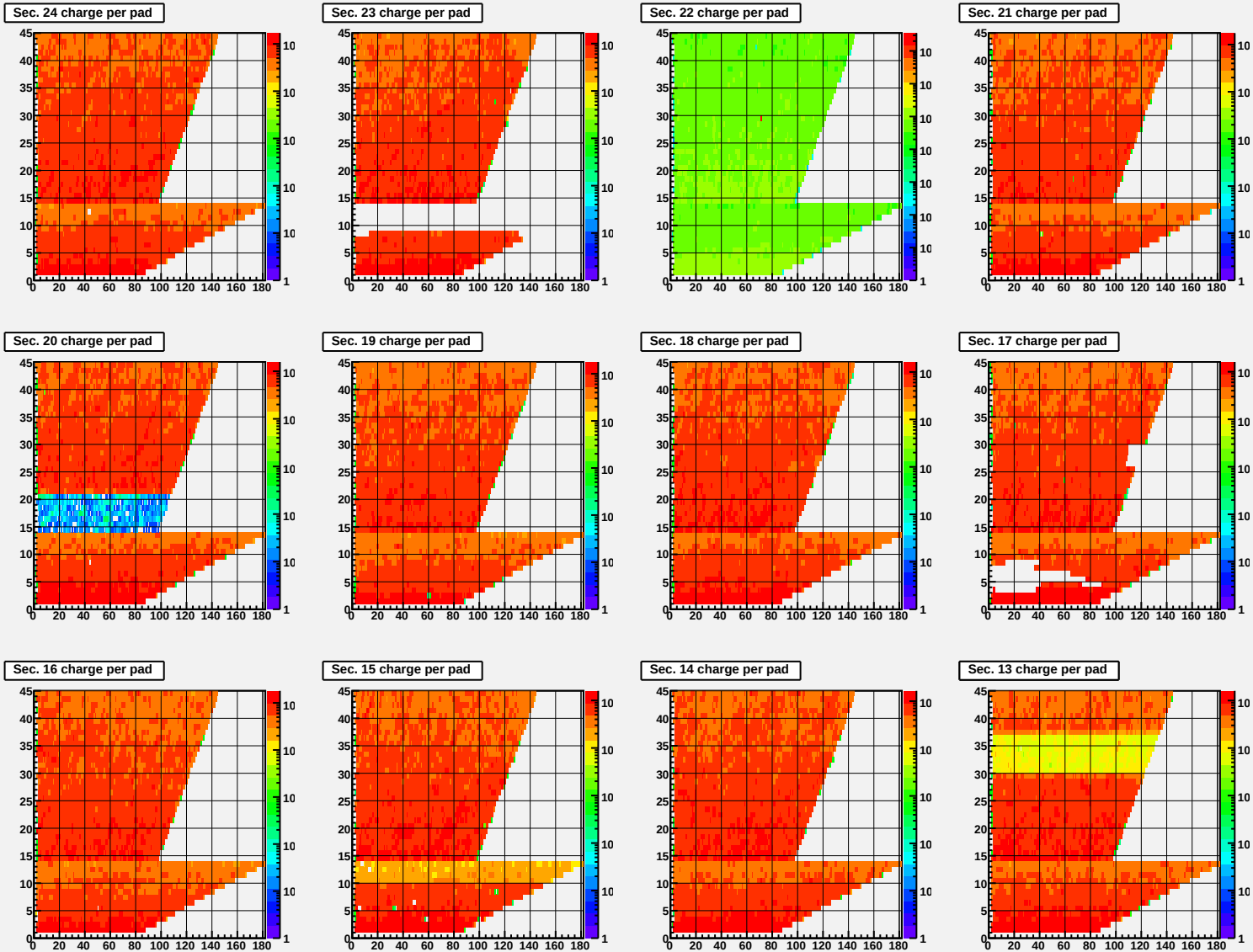

Log of TPC Buffer Size
h2_tpc
Entries 8440
Mean 4.073
RMS 2.48

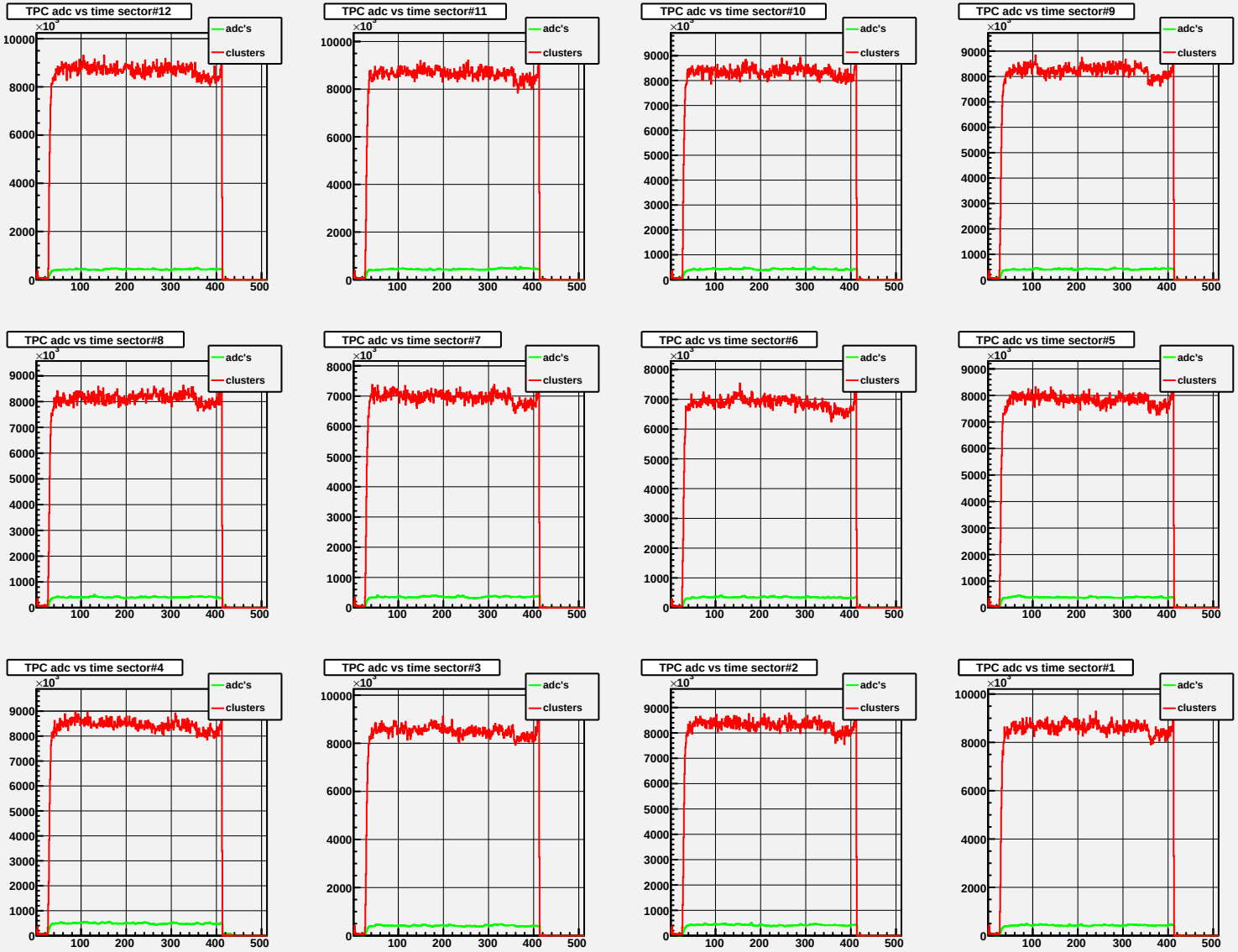

TPC Pixel Occupancy (in %) Lasers
tpc_clpix_occ_laser
Entries 0
Mean 0
RMS 0
clusters
adc's

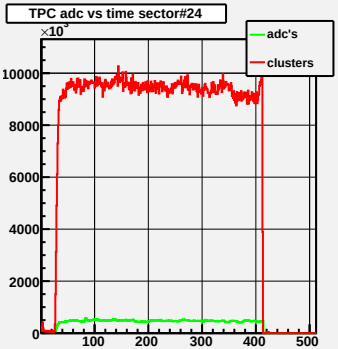

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 8440
Mean 58.86
RMS 36.37

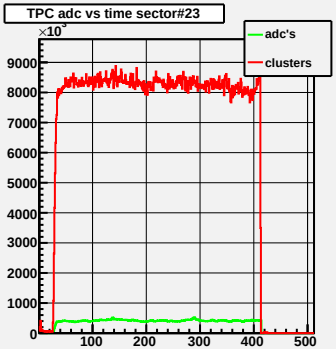

TPC Pixel Occupancy (in %) Pulsers
tpc_clpix_occ_pulser
Entries 0
Mean 0
RMS 0
clusters
adc's

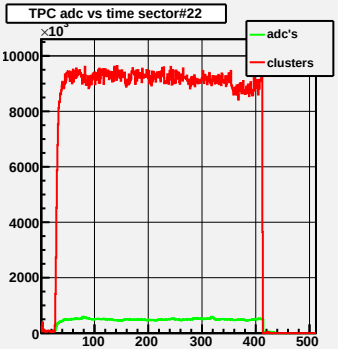

Sec. 12 charge per pad
Sec. 11 charge per pad
Sec. 10 charge per pad
Sec. 9 charge per pad
Sec. 8 charge per pad
Sec. 7 charge per pad
Sec. 6 charge per pad
Sec. 5 charge per pad
Sec. 4 charge per pad
Sec. 3 charge per pad
Sec. 2 charge per pad
Sec. 1 charge per pad

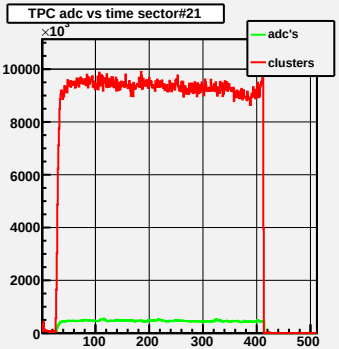

Sec. 24 charge per pad
Sec. 23 charge per pad
Sec. 22 charge per pad
Sec. 21 charge per pad
Sec. 20 charge per pad
Sec. 19 charge per pad
Sec. 18 charge per pad
Sec. 17 charge per pad
Sec. 16 charge per pad
Sec. 15 charge per pad
Sec. 14 charge per pad
Sec. 13 charge per pad

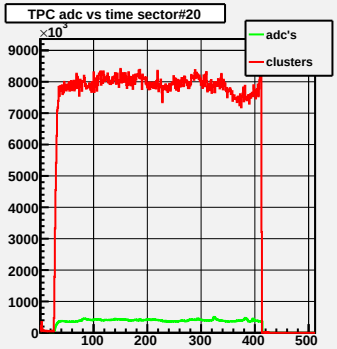

TPC adc vs time sector#12
TPC adc vs time sector#11
TPC adc vs time sector#10
TPC adc vs time sector#9
TPC adc vs time sector#8
TPC adc vs time sector#7
TPC adc vs time sector#6
TPC adc vs time sector#5
TPC adc vs time sector#4
TPC adc vs time sector#3
TPC adc vs time sector#2
TPC adc vs time sector#1
adc's
clusters
×10³

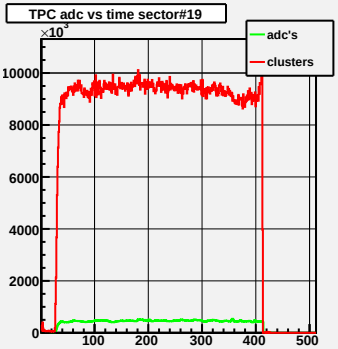

TPC adc vs time sector#24
adc's
clusters

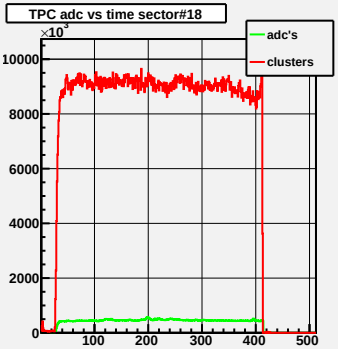

TPC adc vs time sector#23
adc's
clusters

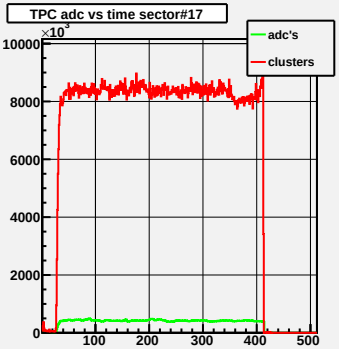

TPC adc vs time sector#22
adc's
clusters

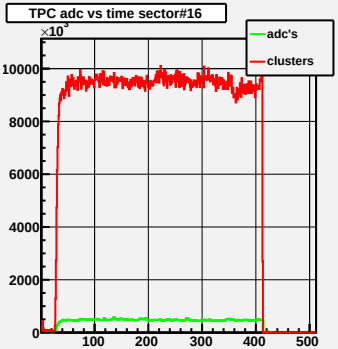

TPC adc vs time sector#21
adc's
clusters

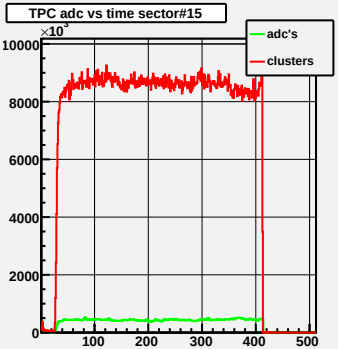

TPC adc vs time sector#20
adc's
clusters

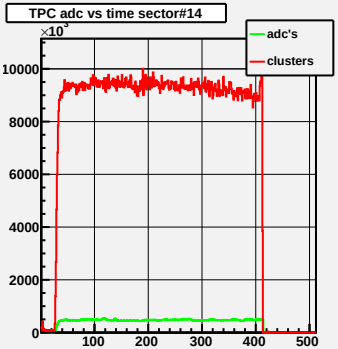

TPC adc vs time sector#19
adc's
clusters

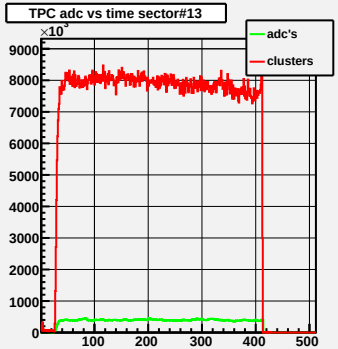

TPC adc vs time sector#18
adc's
clusters

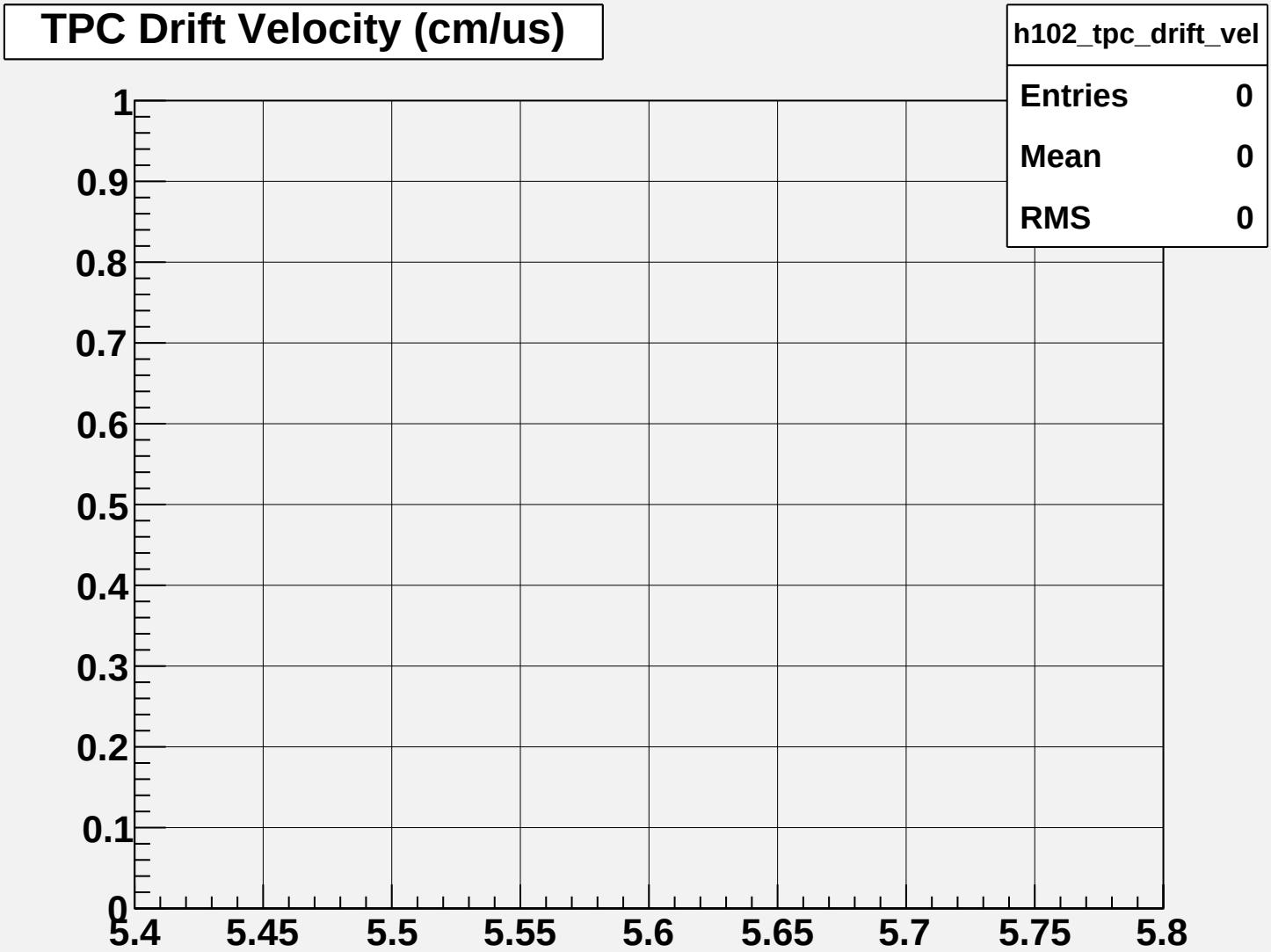

TPC adc vs time sector#17
adc's
clusters

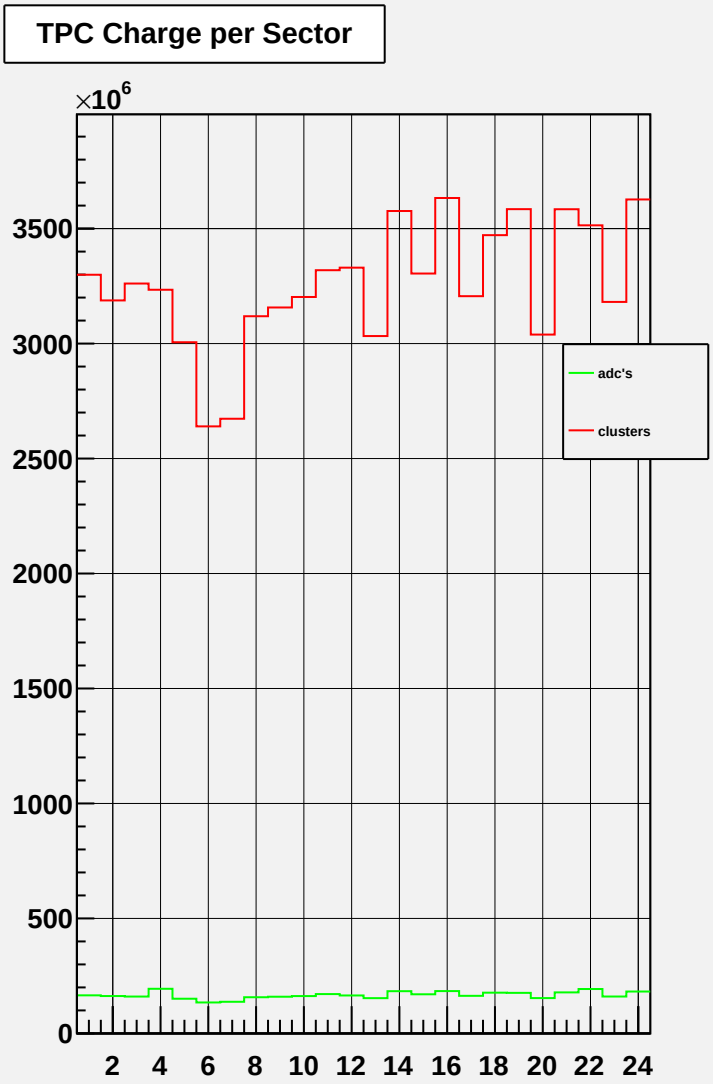

TPC adc vs time sector#16
adc's
clusters

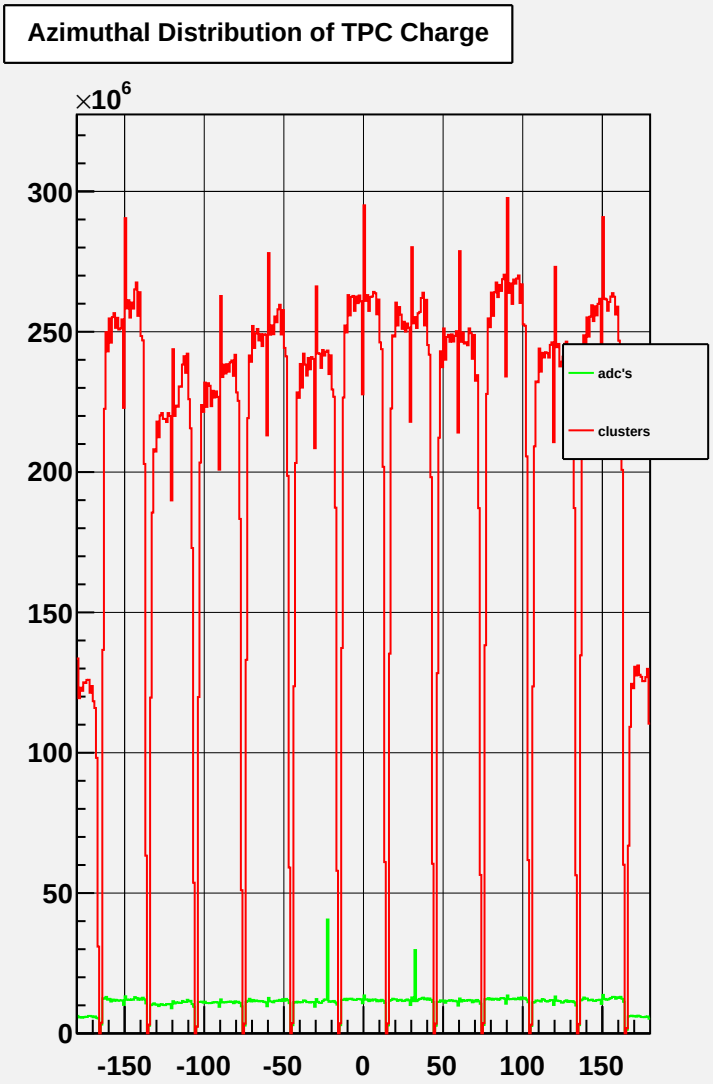

TPC adc vs time sector#15
adc's
clusters

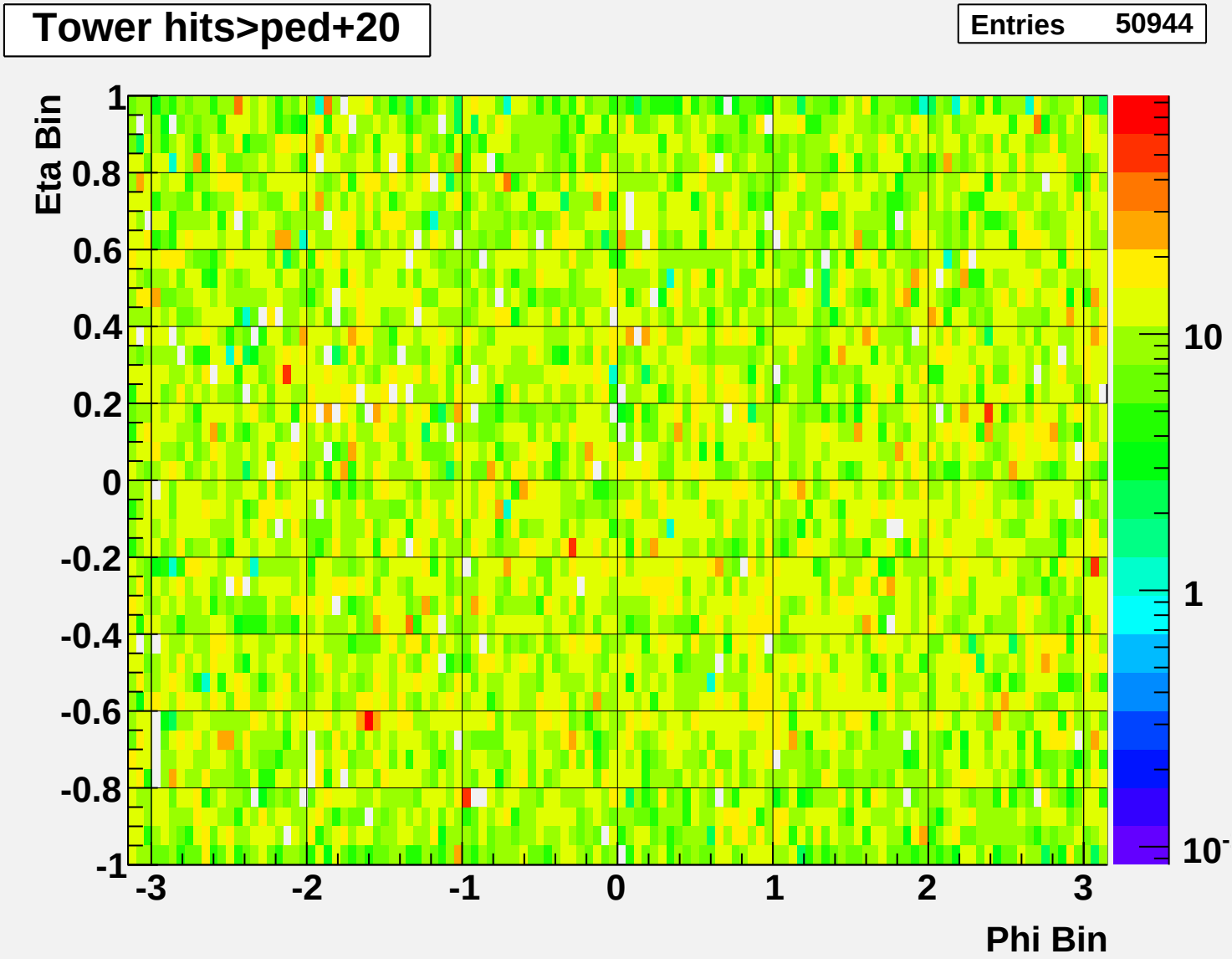

TPC adc vs time sector#14
adc's
clusters

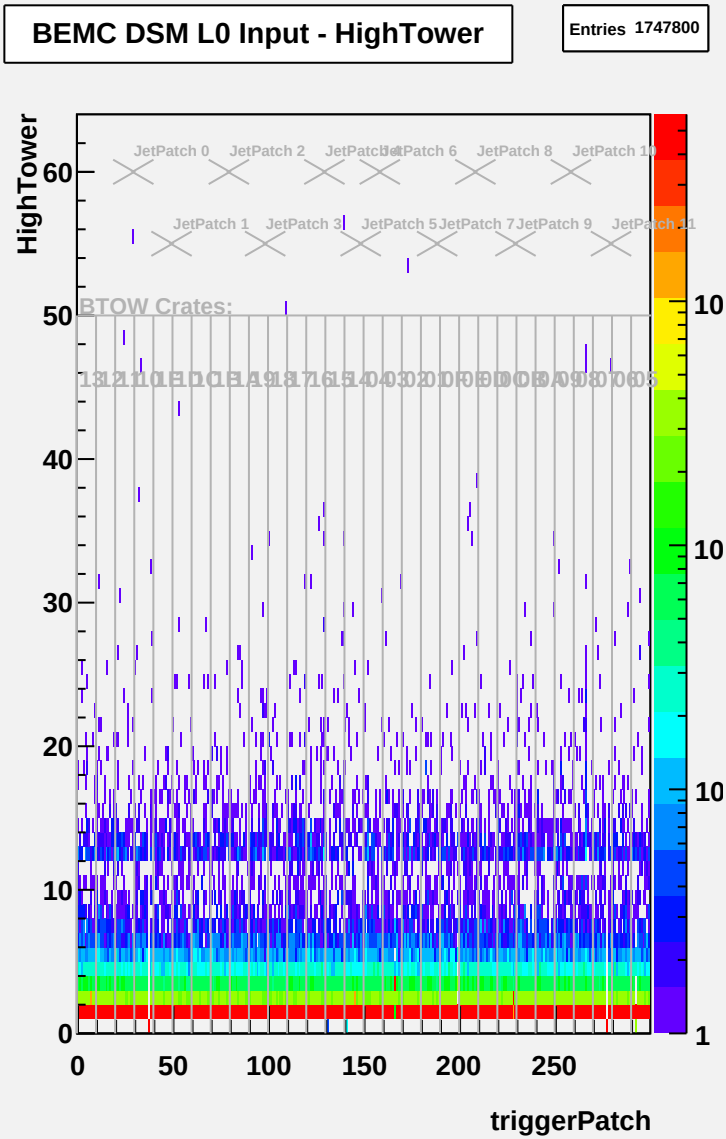

TPC adc vs time sector#13
adc's
clusters

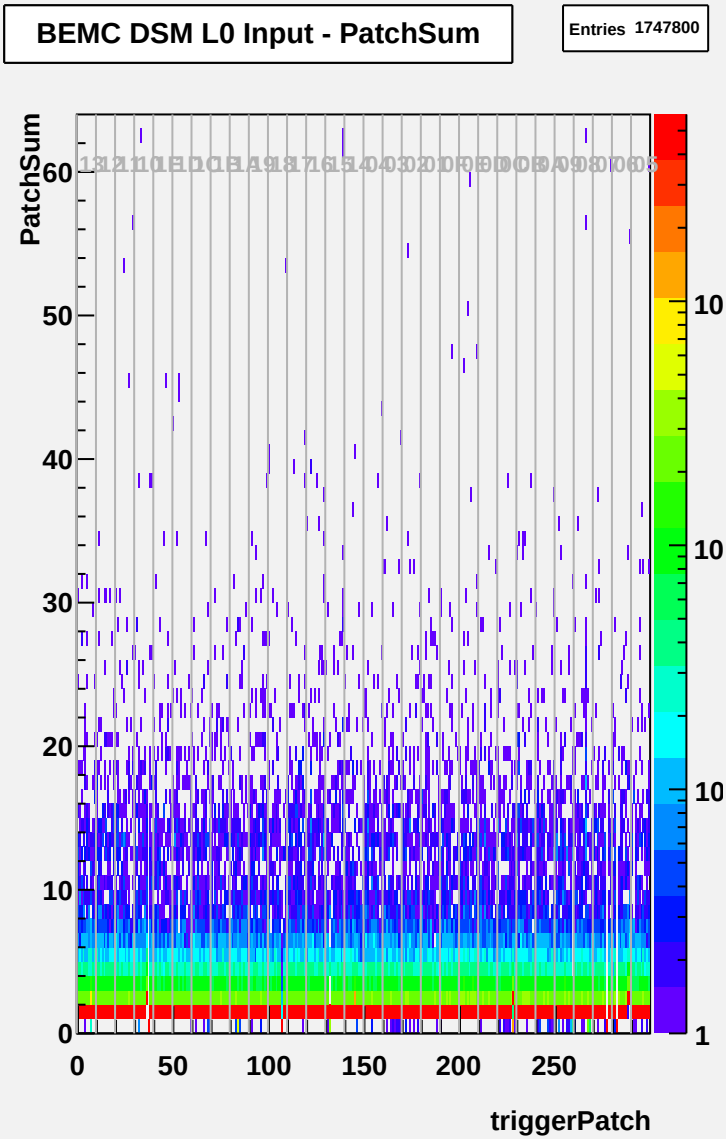

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

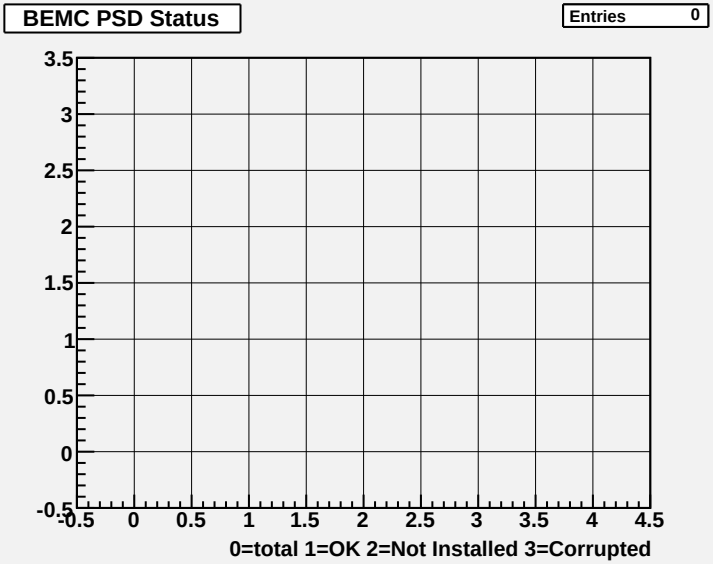

TPC Charge per Sector
×10^6
3500
3000
2500
2000
1500
1000
500
0
2 4 6 8 10 12 14 16 18 20 22 24
adc's
clusters

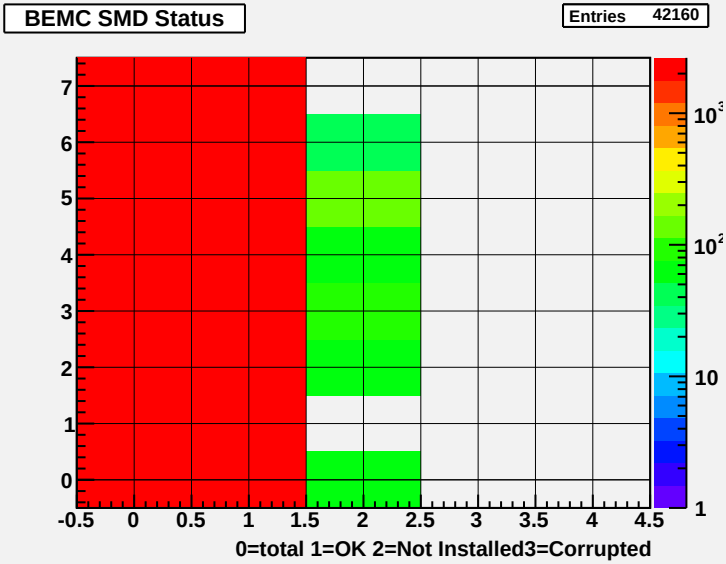

Azimuthal Distribution of TPC Charge
×10^6
300
250
200
150
100
50
0
-150 -100 -50 0 50 100 150
adc's
clusters

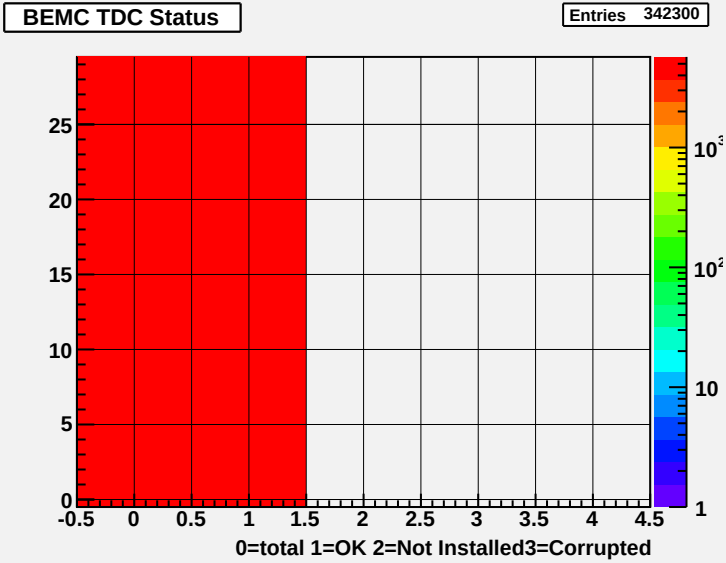

Tower hits>ped+20
Entries 50944
Eta Bin
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
-0.6
-0.8
-1
-3
-2
-1
0
1
2
3
Phi Bin
10
1
10

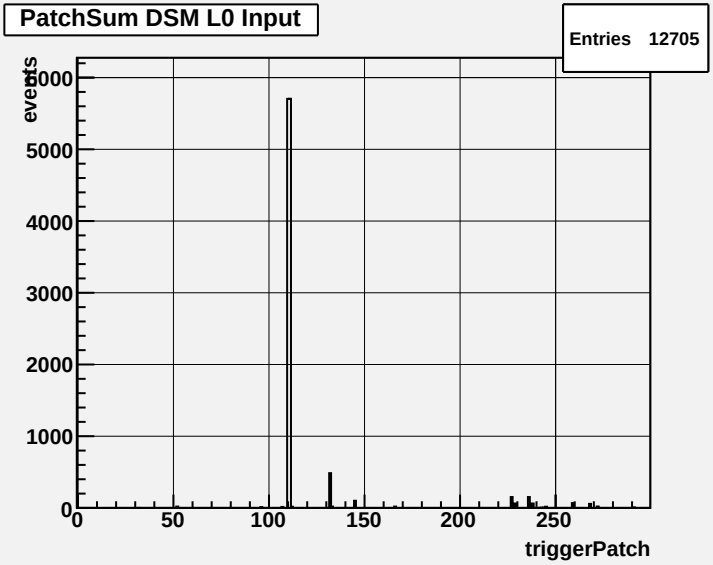

BEMC DSM L0 Input - HighTower
Entries 1747800
HighTower
triggerPatch
JetPatch 0
JetPatch 2
JetPatch 4
JetPatch 6
JetPatch 8
JetPatch 10
JetPatch 1
JetPatch 3
JetPatch 5
JetPatch 7
JetPatch 9
JetPatch 11
BTOW Crates:

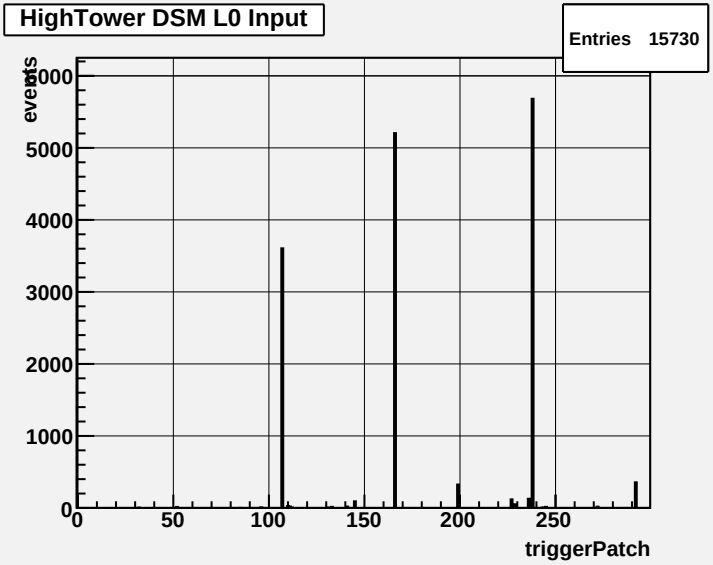

BEMC DSM L0 Input - PatchSum
Entries 1747800
PatchSum
triggerPatch

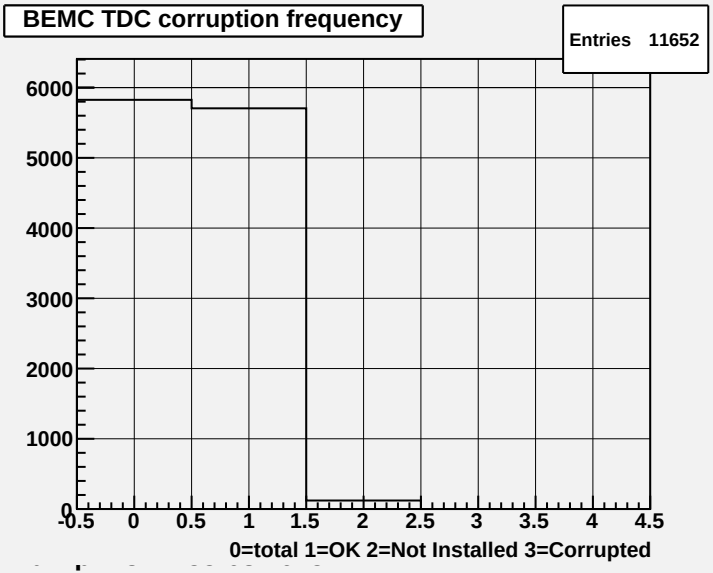

BEMC PSD Status
Entries 0
0=total 1=OK 2=Not Installed 3=Corrupted

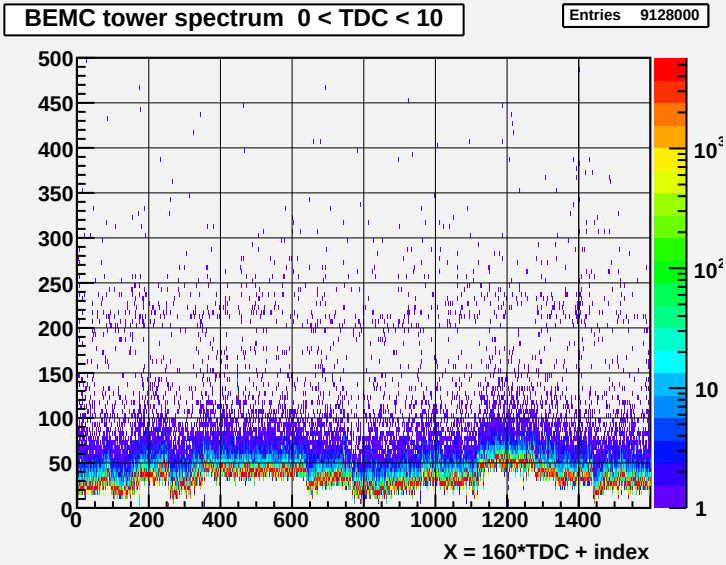

BEMC SMD Status
Entries 42160
0=total 1=OK 2=Not Installed3=Corrupted

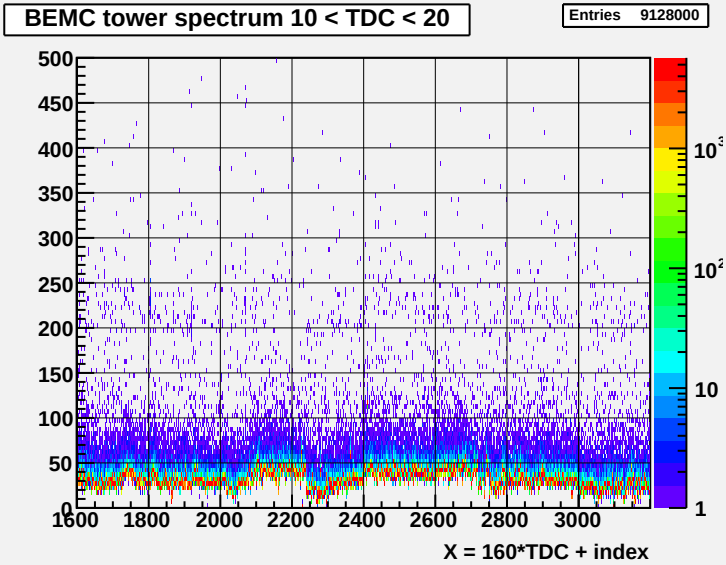

BEMC TDC Status
Entries 342300
0=total 1=OK 2=Not Installed3=Corrupted

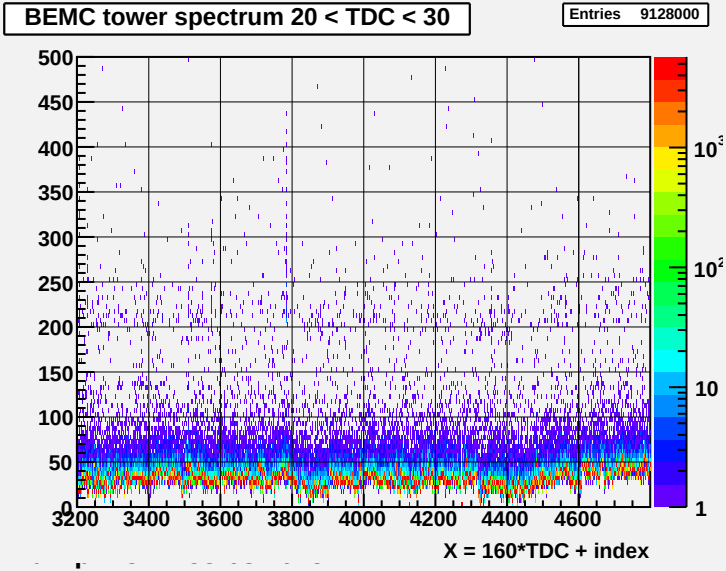

PatchSum DSM L0 Input
Entries 12705
events
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
triggerPatch

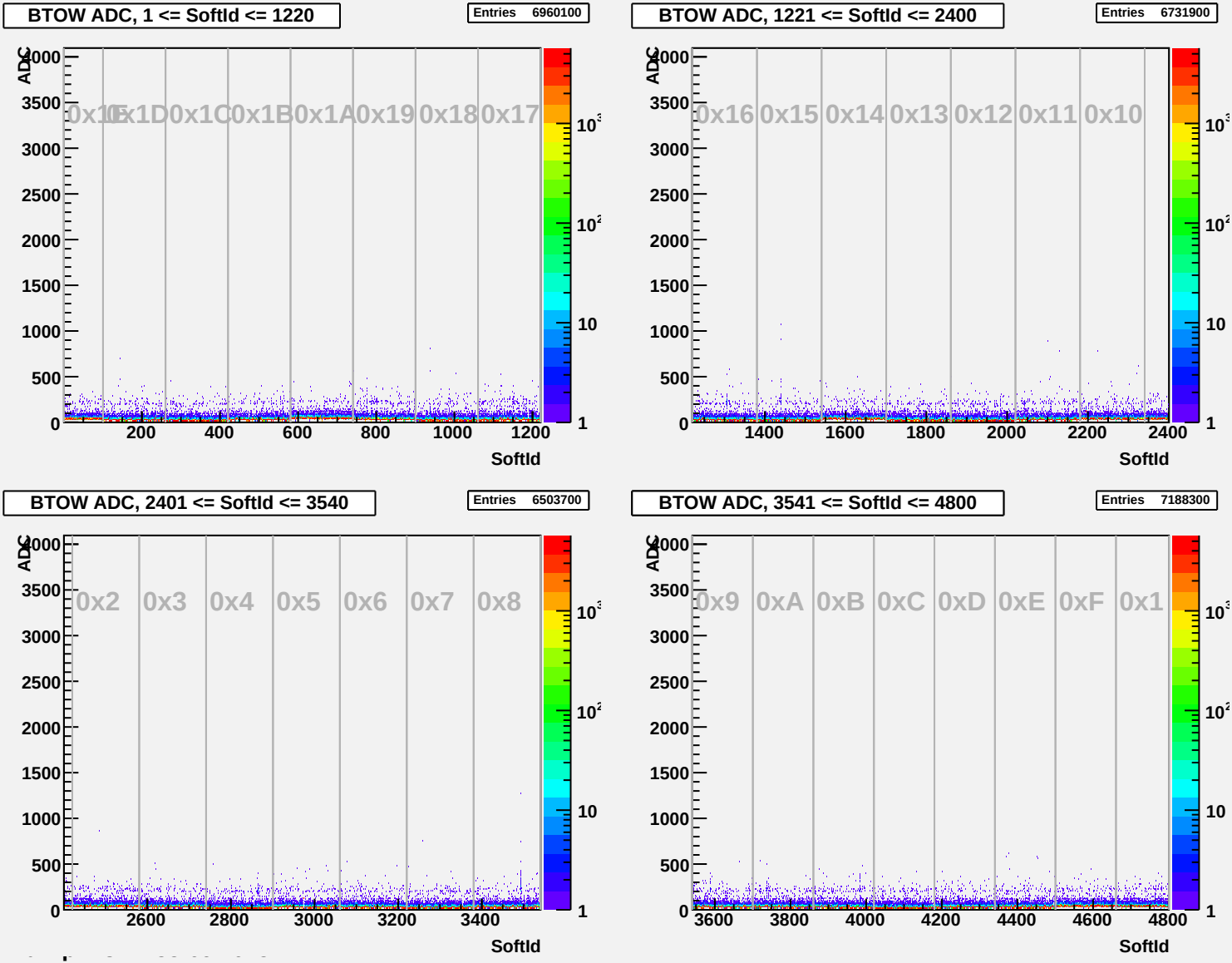

HighTower DSM L0 Input
Entries 15730
events
6000
5000
4000
3000
2000
1000
0
0
50
100
150
200
250
triggerPatch

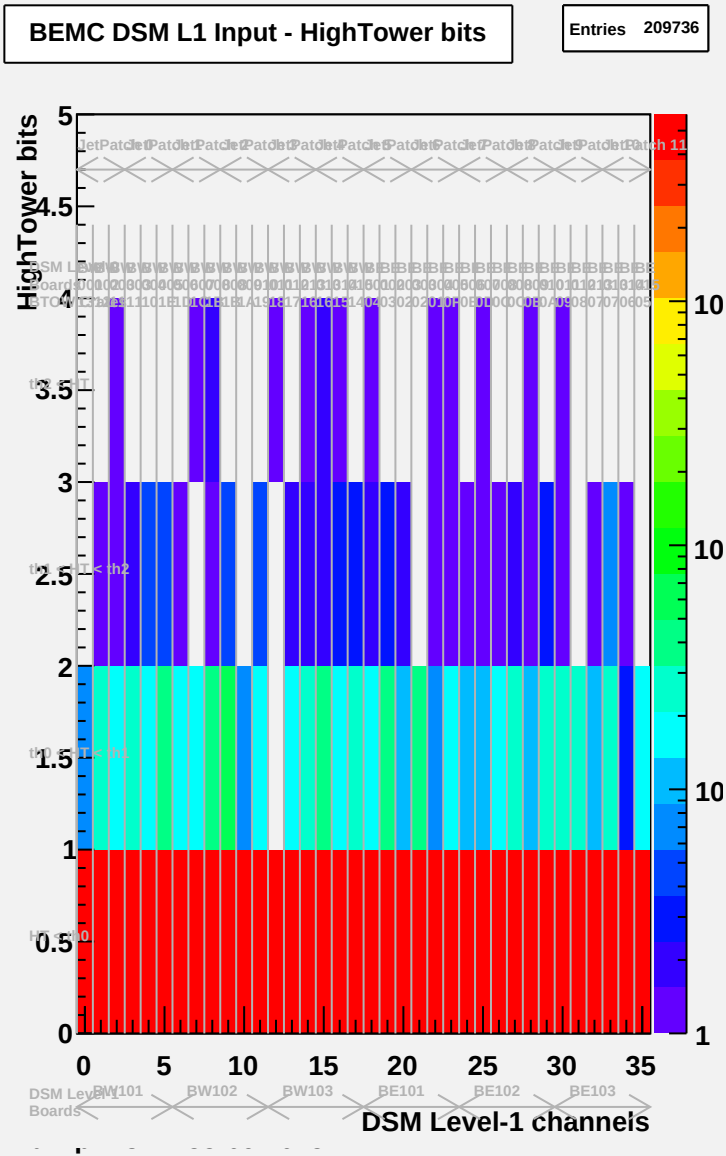

BEMC TDC corruption frequency
Entries 11652
6000
5000
4000
3000
2000
1000
0
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
0=total 1=OK 2=Not Installed 3=Corrupted

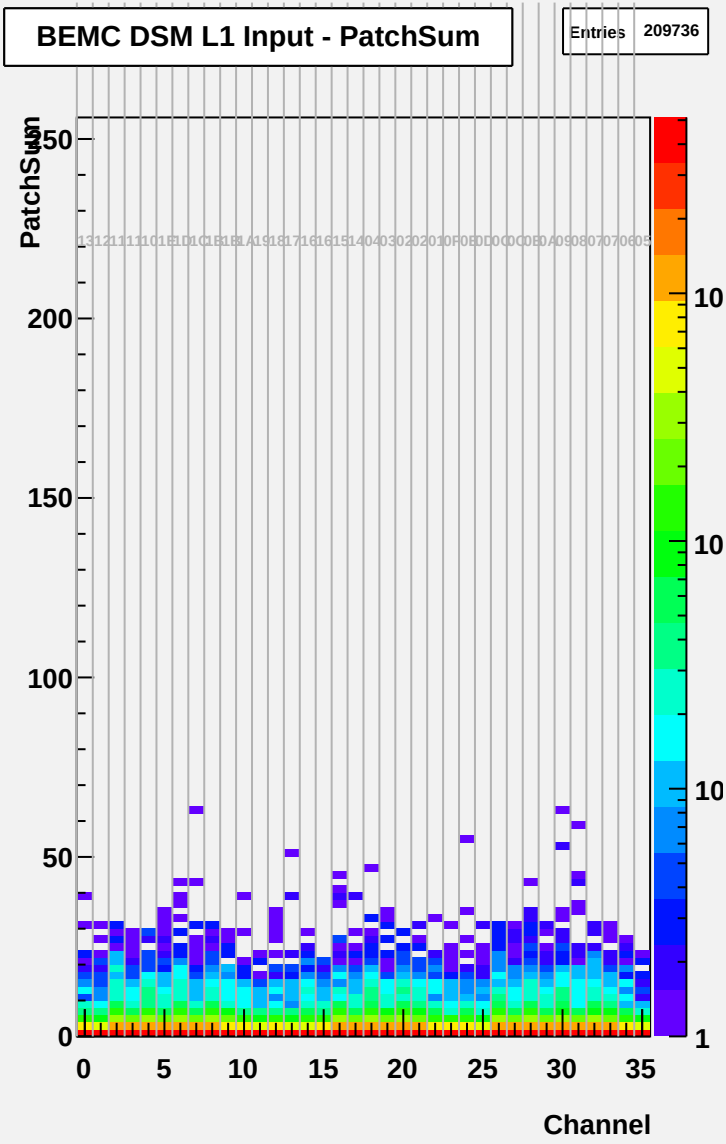

BEMC tower spectrum 0 < TDC < 10
Entries 9128000
X = 160*TDC + index

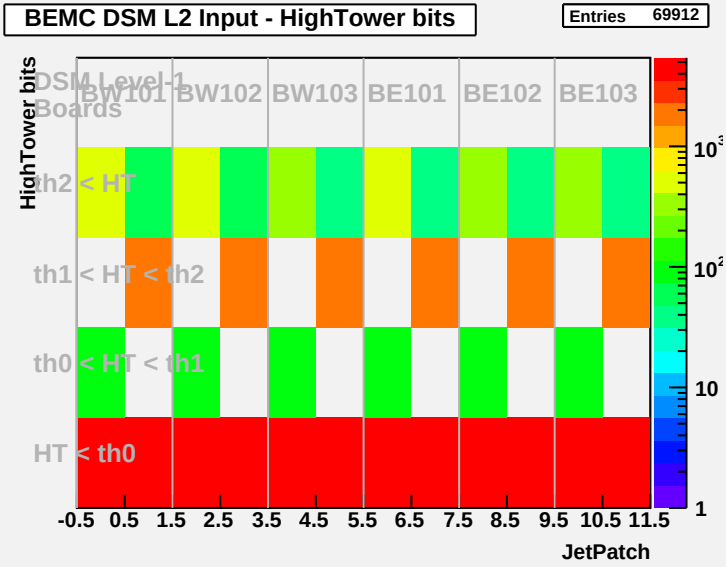

BEMC tower spectrum 10 < TDC < 20
Entries 9128000
X = 160*TDC + index

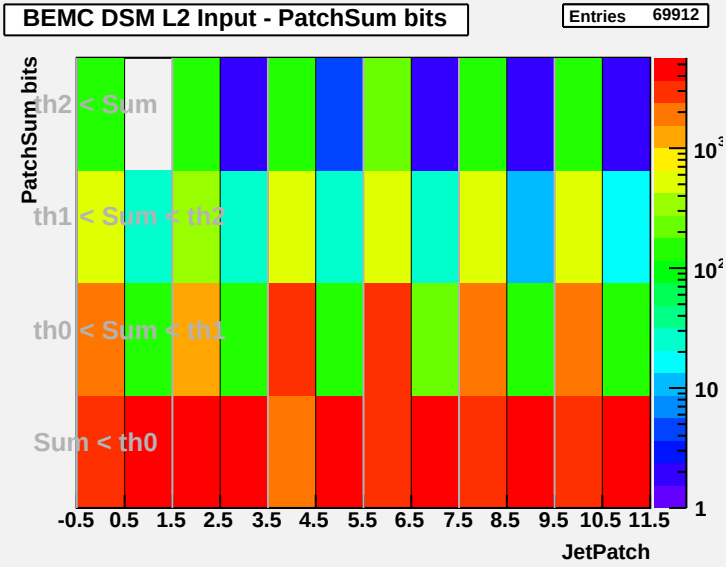

BEMC tower spectrum 20 < TDC < 30
Entries 9128000
X = 160*TDC + index

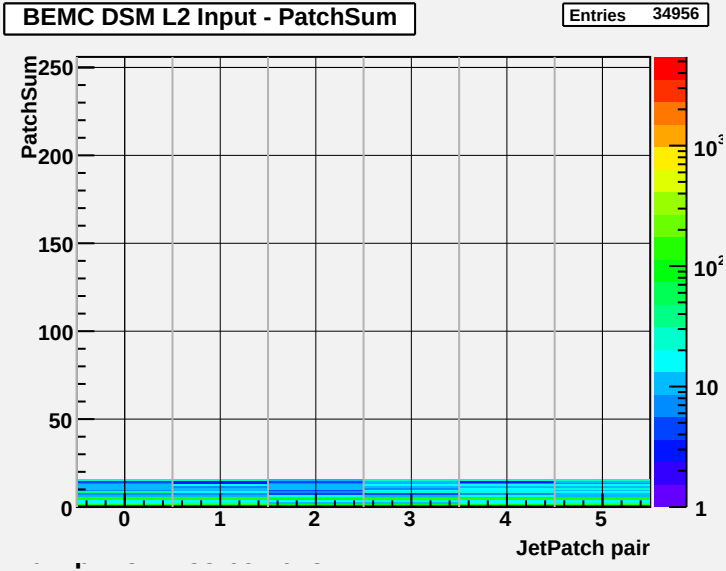

BTOW ADC, 1 <= SoftId <= 1220
Entries 6960100
ADC
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
SoftId
BTOW ADC, 1221 <= SoftId <= 2400
Entries 6731900
ADC
0x16 0x15 0x14 0x13 0x12 0x11 0x10
SoftId
BTOW ADC, 2401 <= SoftId <= 3540
Entries 6503700
ADC
0x2 0x3 0x4 0x5 0x6 0x7 0x8
SoftId
BTOW ADC, 3541 <= SoftId <= 4800
Entries 7188300
ADC
0x9 0xA 0xB 0xC 0xD 0xE 0xF 0x1
SoftId

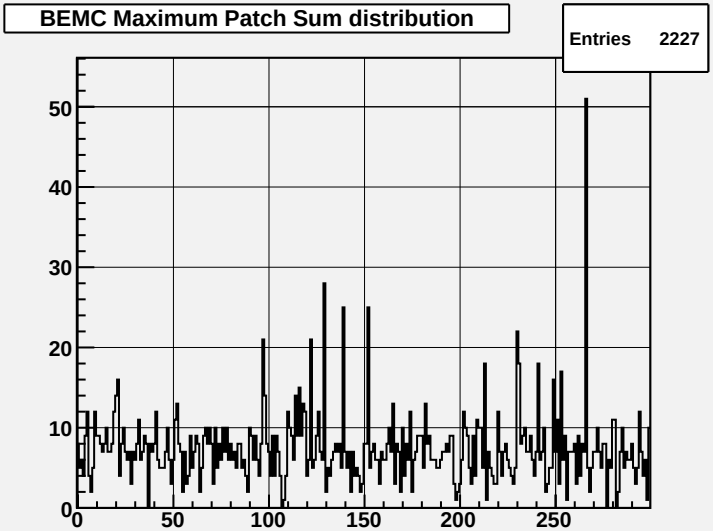

BEMC DSM L1 Input - HighTower bits
Entries 209736
HighTower bits
DSM Level-1 channels
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103

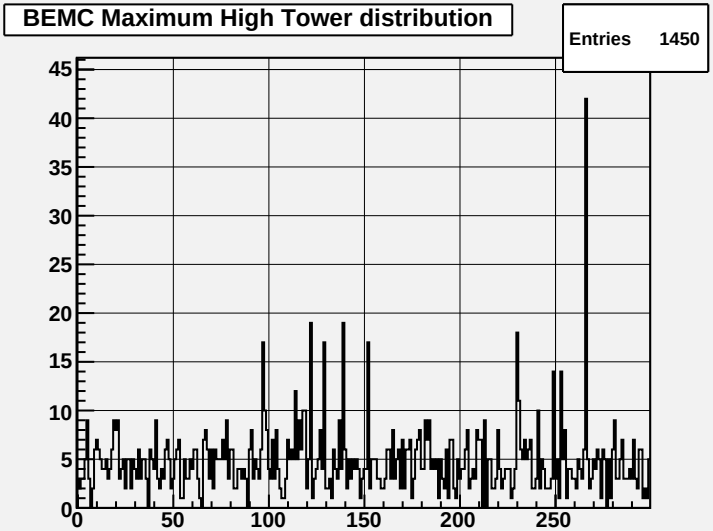

BEMC DSM L1 Input - PatchSum
Entries 209736
PatchSum
Channel

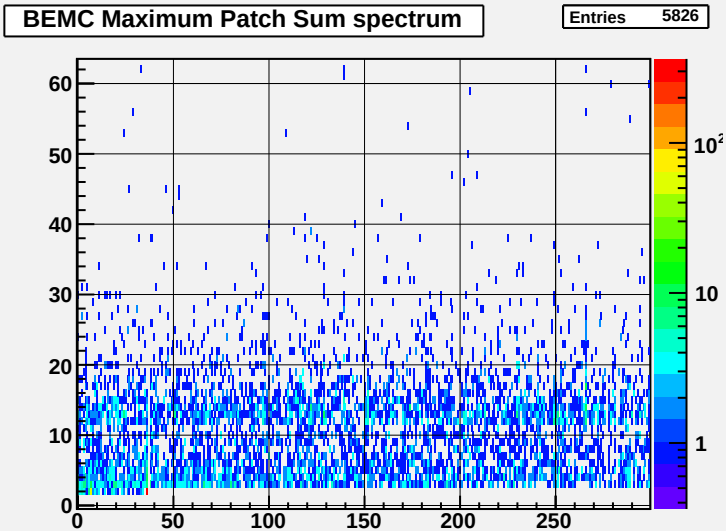

BEMC DSM L2 Input - HighTower bits
Entries 69912
DSM Level-1 Boards
BW101 BW102 BW103 BE101 BE102 BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
HighTower bits
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
1
10
10²
10³

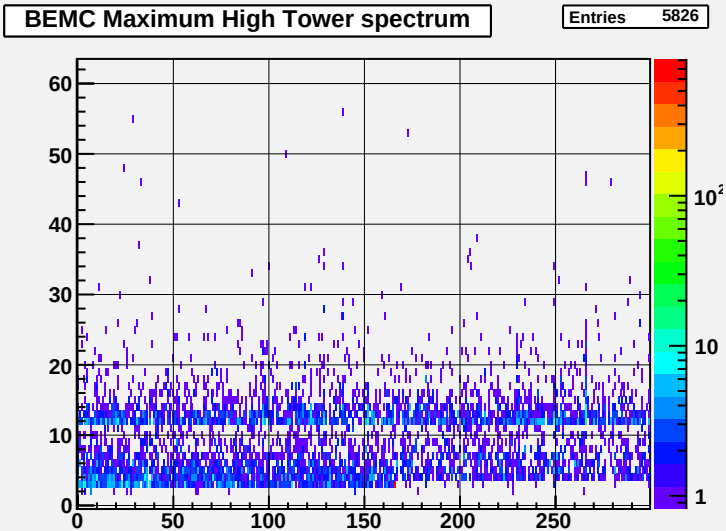

BEMC DSM L2 Input - PatchSum bits
Entries 69912
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
PatchSum bits
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
1
10
10²
10³

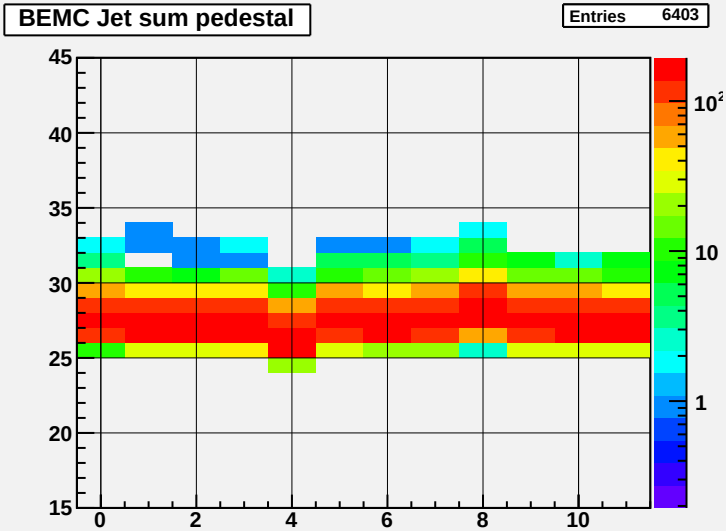

BEMC DSM L2 Input - PatchSum
Entries 34956
PatchSum
0 50 100 150 200 250
0 1 2 3 4 5
JetPatch pair
1
10
10²
10³

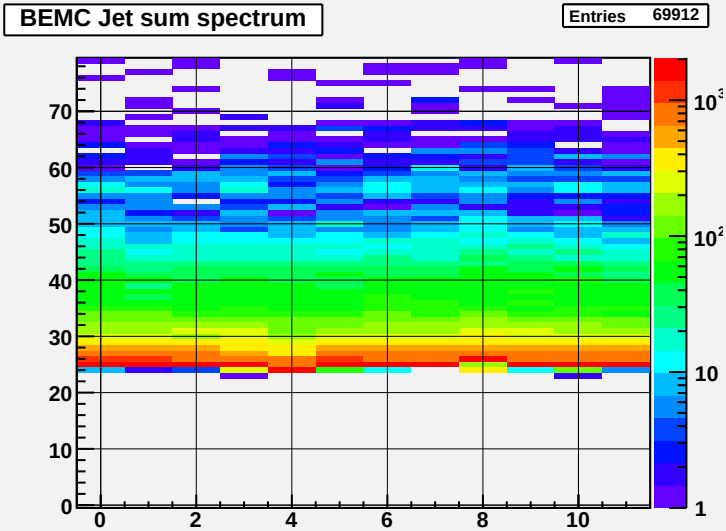

BEMC Maximum Patch Sum distribution
Entries 2227
0
10
20
30
40
50
0
50
100
150
200
250

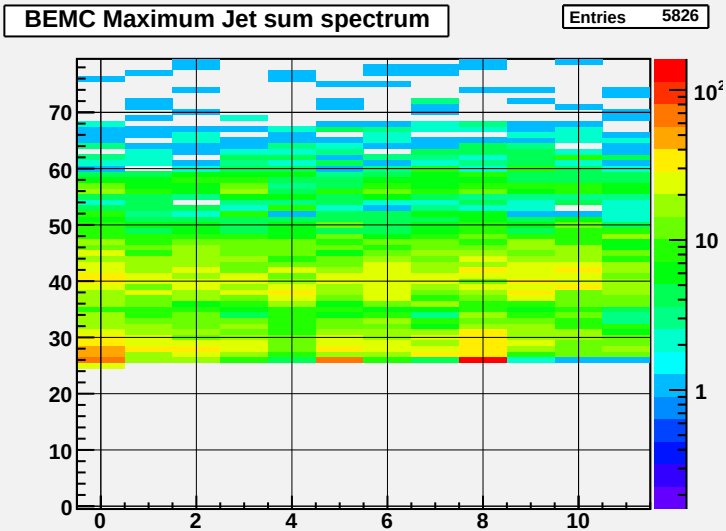

BEMC Maximum High Tower distribution
Entries 1450
0
5
10
15
20
25
30
35
40
45
0
50
100
150
200
250

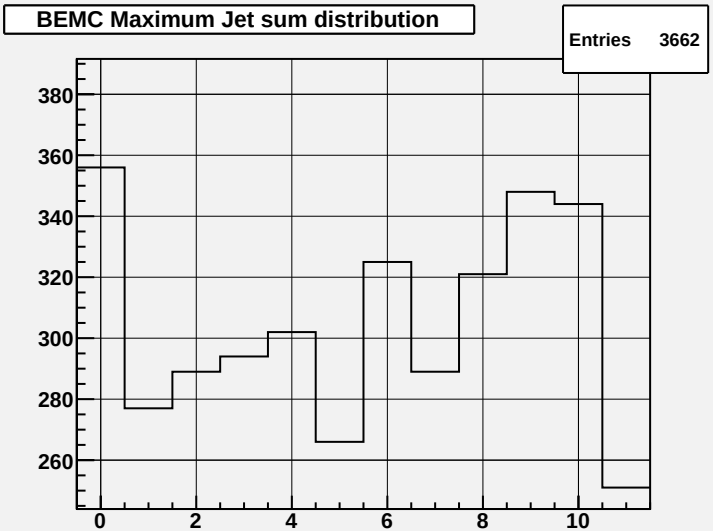

BEMC Maximum Patch Sum spectrum
Entries 5826
0
10
20
30
40
50
60
0
50
100
150
200
250
10^2
10
1

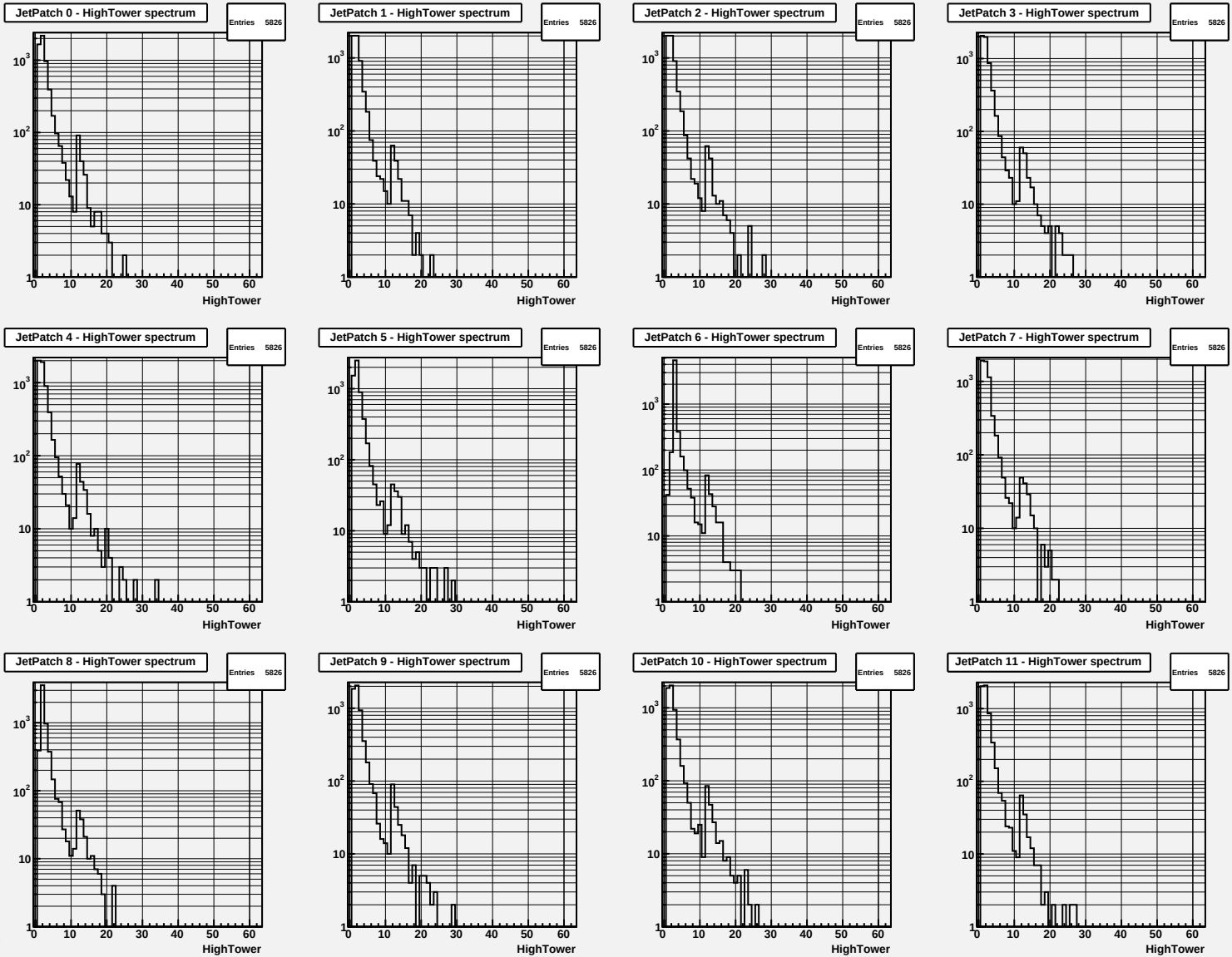

BEMC Maximum High Tower spectrum
Entries 5826
0
10
20
30
40
50
60
0
50
100
150
200
250
10^2
10
1

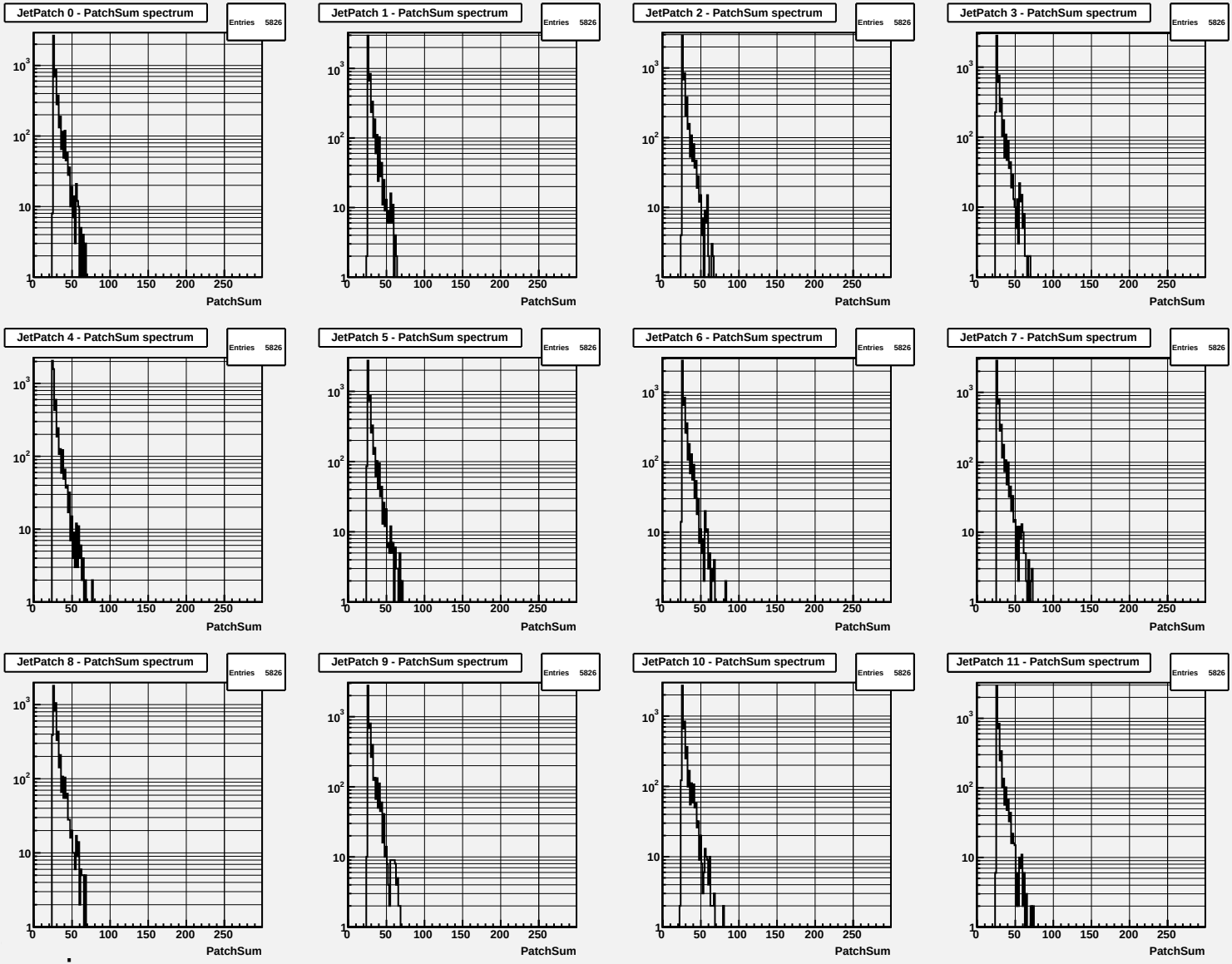

BEMC Jet sum pedestal
Entries 6403
45
40
35
30
25
20
15
0
2
4
6
8
10
10^2
10
1

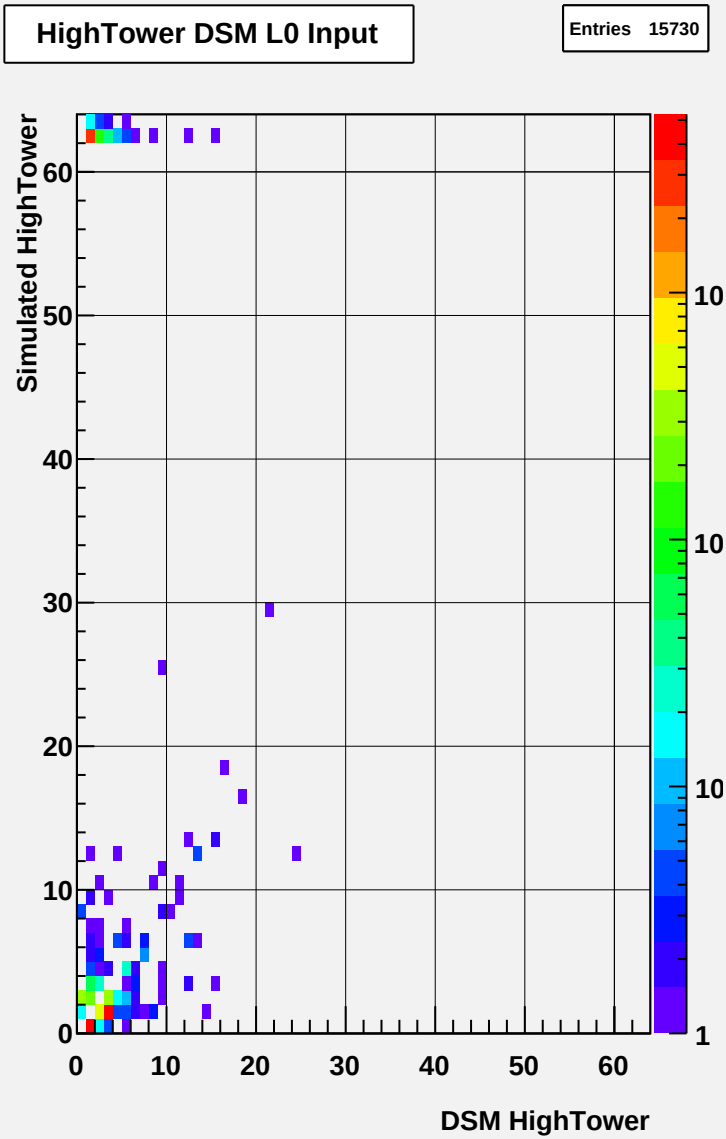

BEMC Jet sum spectrum
Entries 69912
70
60
50
40
30
20
10
0
0
2
4
6
8
10
10^3
10^2
10
1

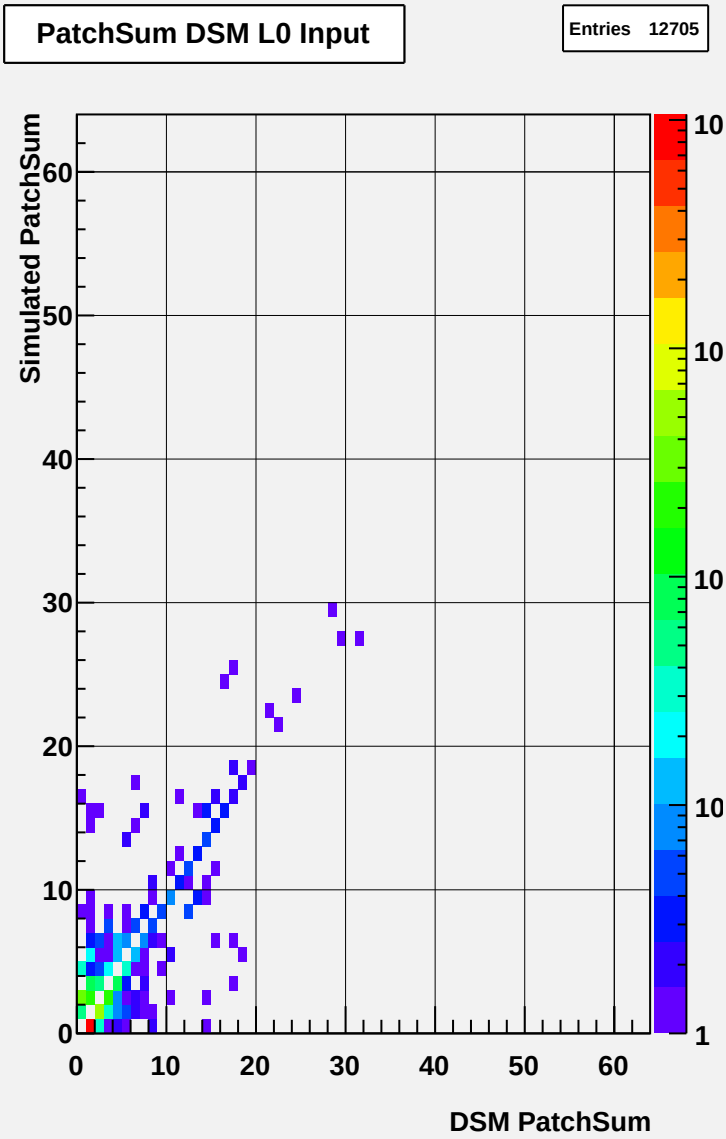

BEMC Maximum Jet sum spectrum
Entries 5826
70
60
50
40
30
20
10
0
0
2
4
6
8
10
10^2
10
1

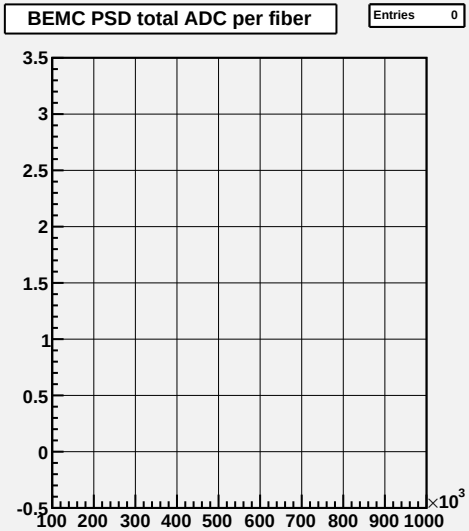

BEMC Maximum Jet sum distribution
Entries 3662
380
360
340
320
300
280
260
0
2
4
6
8
10

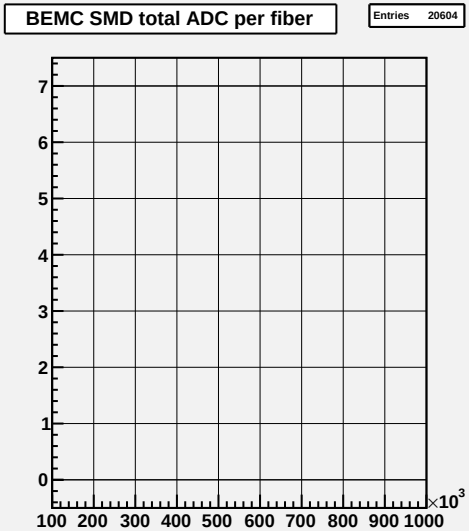

JetPatch 0 - HighTower spectrum
JetPatch 1 - HighTower spectrum
JetPatch 2 - HighTower spectrum
JetPatch 3 - HighTower spectrum
JetPatch 4 - HighTower spectrum
JetPatch 5 - HighTower spectrum
JetPatch 6 - HighTower spectrum
JetPatch 7 - HighTower spectrum
JetPatch 8 - HighTower spectrum
JetPatch 9 - HighTower spectrum
JetPatch 10 - HighTower spectrum
JetPatch 11 - HighTower spectrum
Entries 5826
HighTower

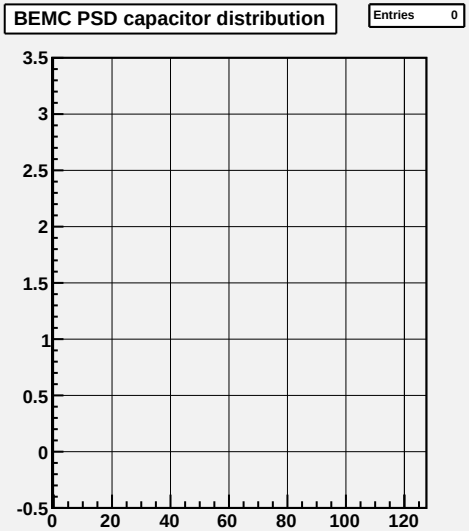

JetPatch 0 - PatchSum spectrum
JetPatch 1 - PatchSum spectrum
JetPatch 2 - PatchSum spectrum
JetPatch 3 - PatchSum spectrum
JetPatch 4 - PatchSum spectrum
JetPatch 5 - PatchSum spectrum
JetPatch 6 - PatchSum spectrum
JetPatch 7 - PatchSum spectrum
JetPatch 8 - PatchSum spectrum
JetPatch 9 - PatchSum spectrum
JetPatch 10 - PatchSum spectrum
JetPatch 11 - PatchSum spectrum
Entries 5826
PatchSum

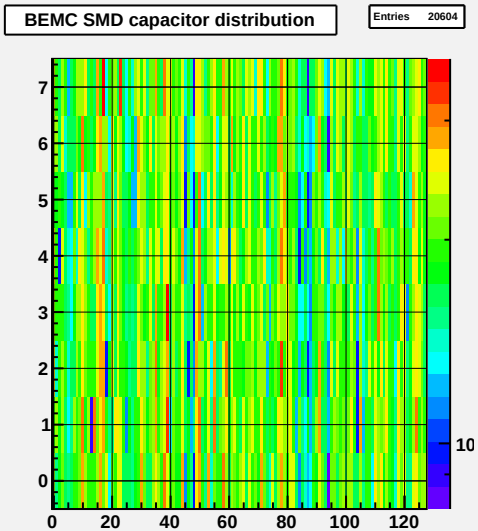

HighTower DSM L0 Input
Entries 15730
Simulated HighTower
DSM HighTower
0
10
20
30
40
50
60
1
10
10
10
10

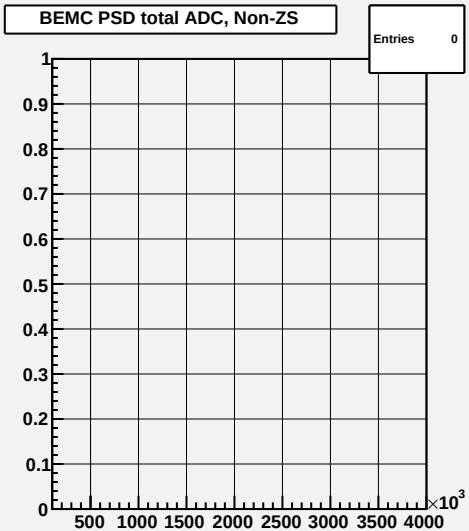

PatchSum DSM L0 Input
Entries 12705
Simulated PatchSum
DSM PatchSum
0
10
20
30
40
50
60
1
10
10
10
10
10

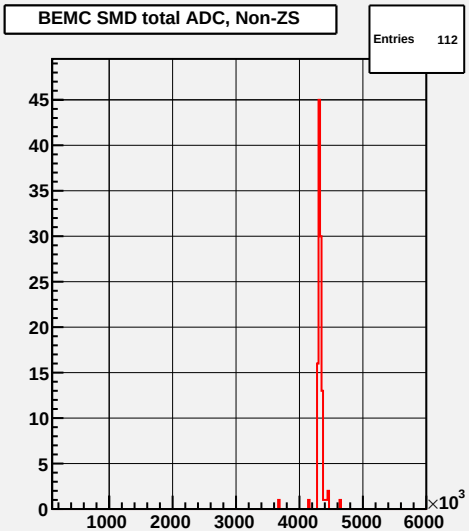

BEMC PSD total ADC per fiber
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
100 200 300 400 500 600 700 800 900 1000
×10^3

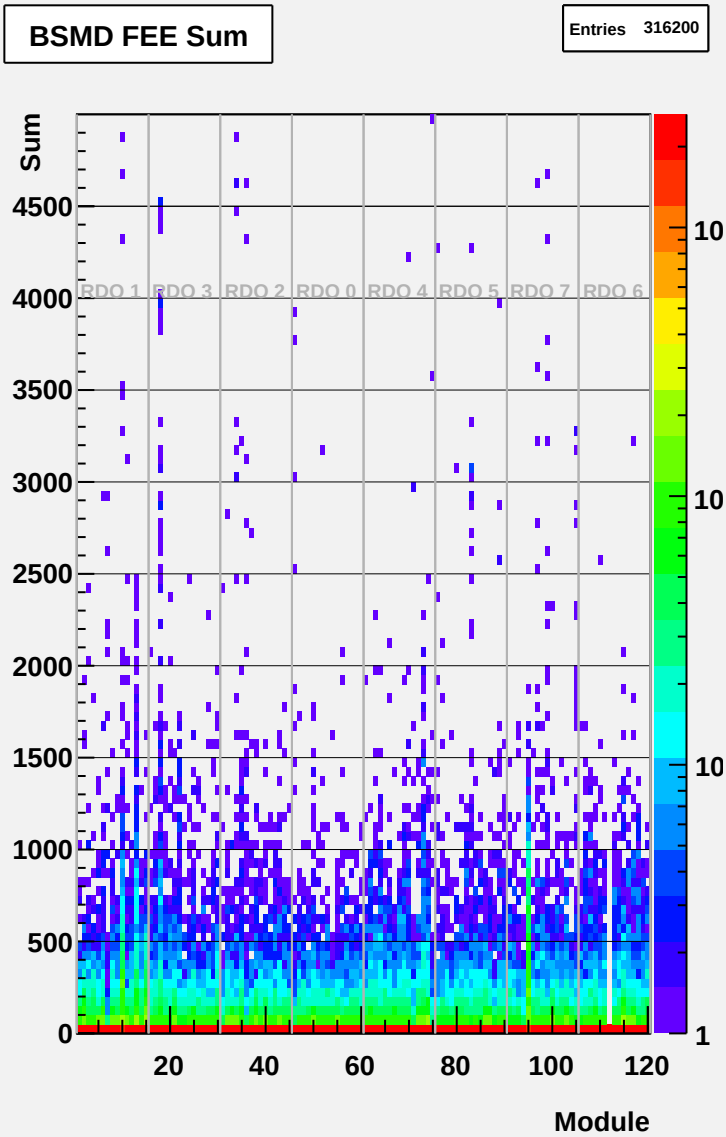

BEMC SMD total ADC per fiber
Entries 20604
7
6
5
4
3
2
1
0
100 200 300 400 500 600 700 800 900 1000
×10^3

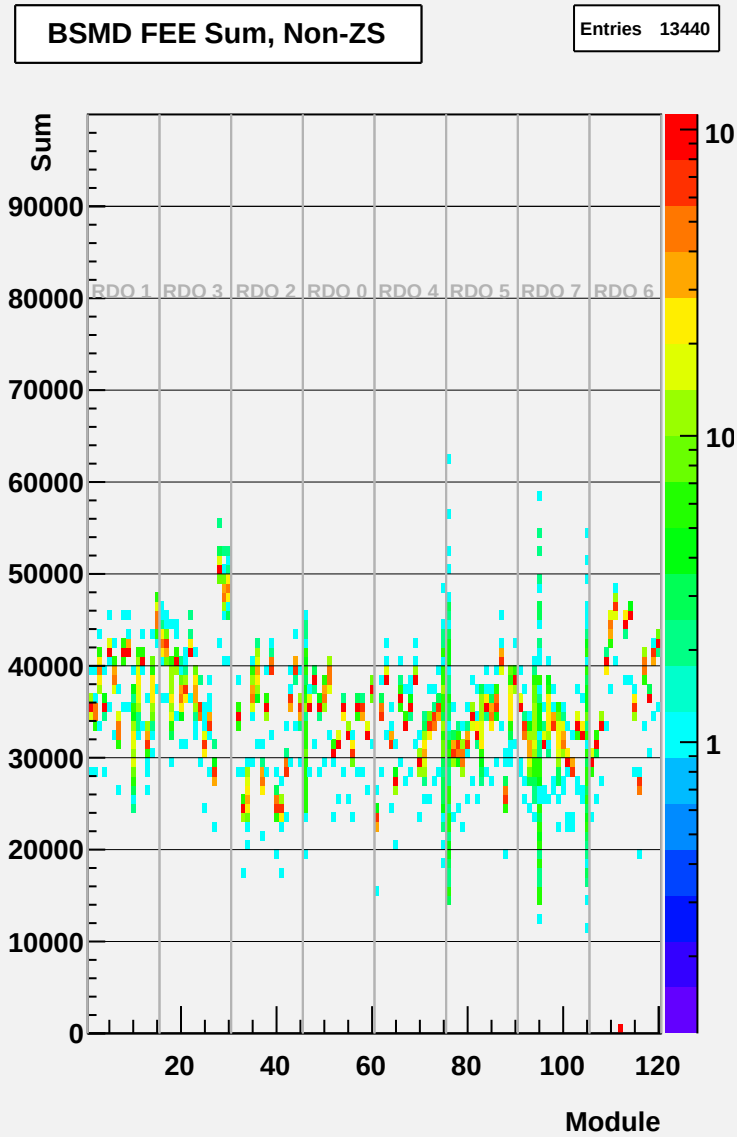

BEMC PSD capacitor distribution
Entries 0
3.5
3
2.5
2
1.5
1
0.5
0
-0.5
0 20 40 60 80 100 120


BEMC SMD capacitor distribution
Entries 20604
7
6
5
4
3
2
1
0
0 20 40 60 80 100 120
10

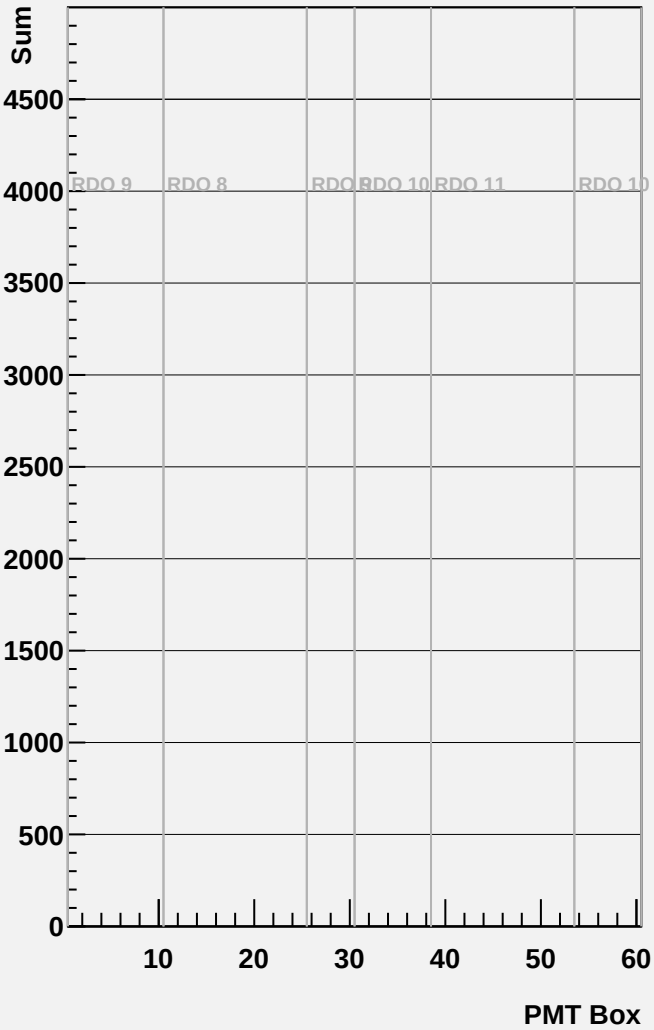

BEMC PSD total ADC, Non-ZS
Entries 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
500 1000 1500 2000 2500 3000 3500 4000
×10^3


BEMC SMD total ADC, Non-ZS
Entries 112
45
40
35
30
25
20
15
10
5
0
1000 2000 3000 4000 5000 6000
×10^3

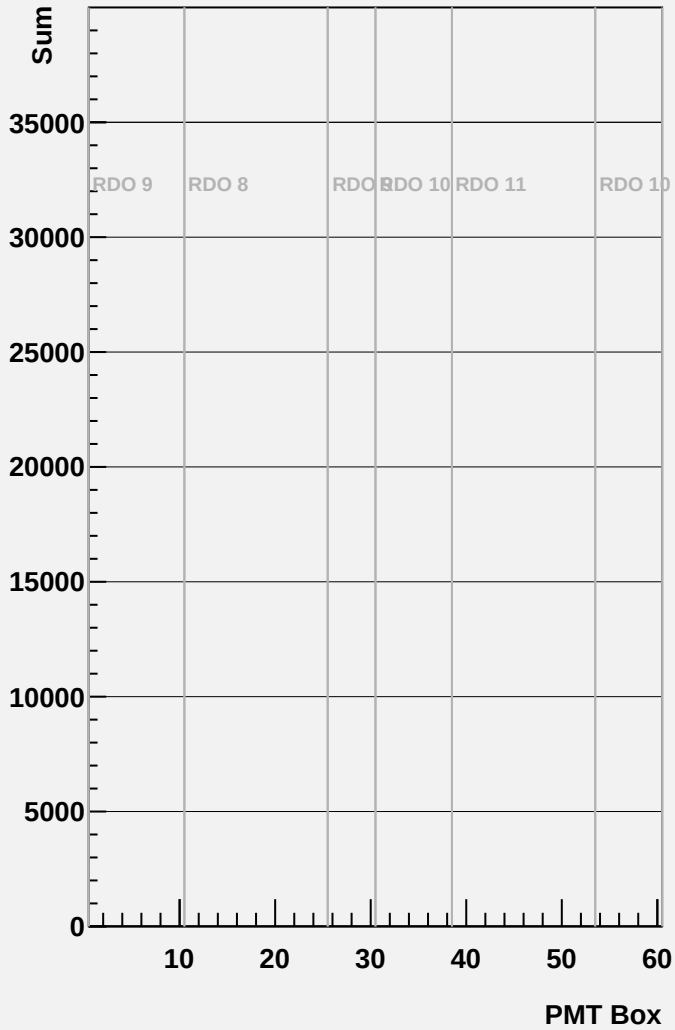

BSMD FEE Sum
Entries 316200
Sum
4500
4000
3500
3000
2500
2000
1500
1000
500
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
10
1

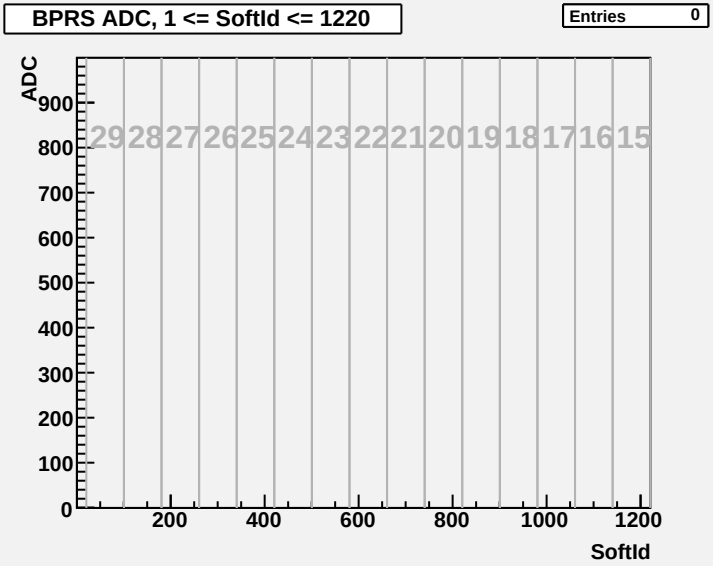

BSMD FEE Sum, Non-ZS
Entries 13440
Sum
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 7
RDO 6
20
40
60
80
100
120
Module
10
10
1

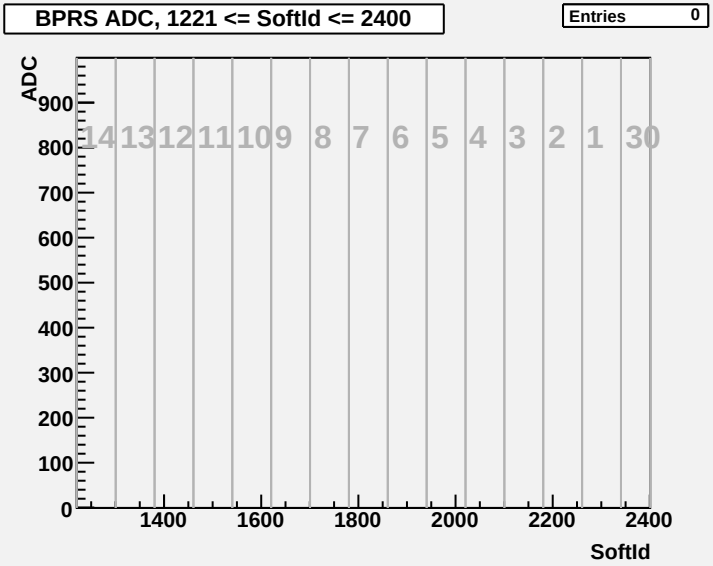
BPRS FEE Sum

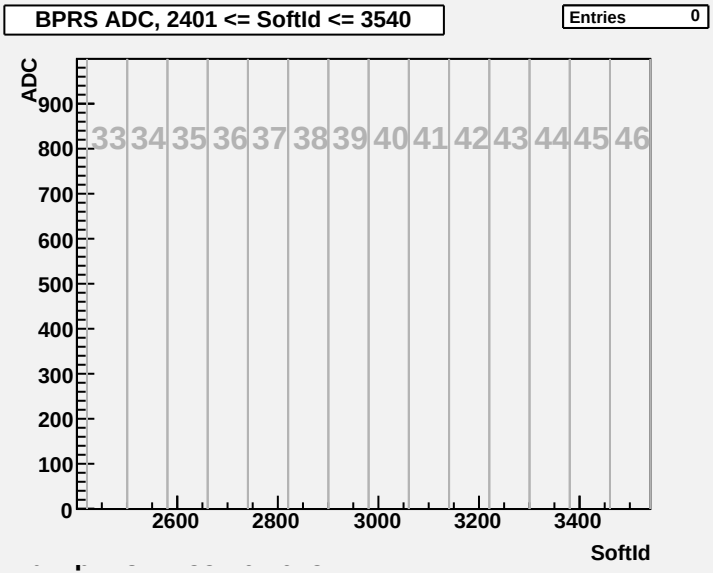


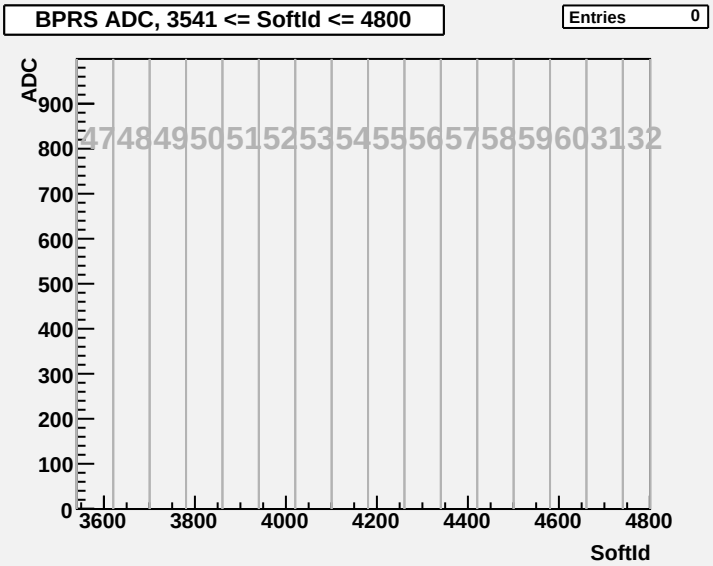
BPRS FEE Sum, Non-ZS

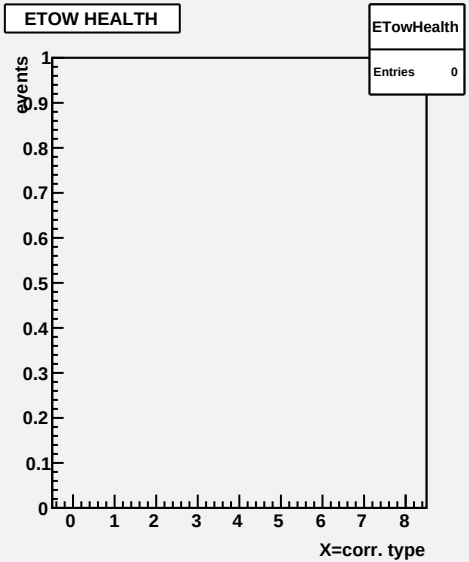


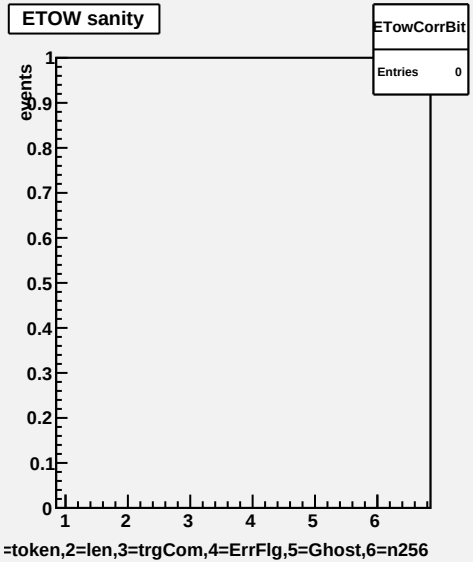

BPRS ADC, 1 <= SoftId <= 1220
Entries 0
ADC
SoftId
29 28 27 26 25 24 23 22 21 20 19 18 17 16 15

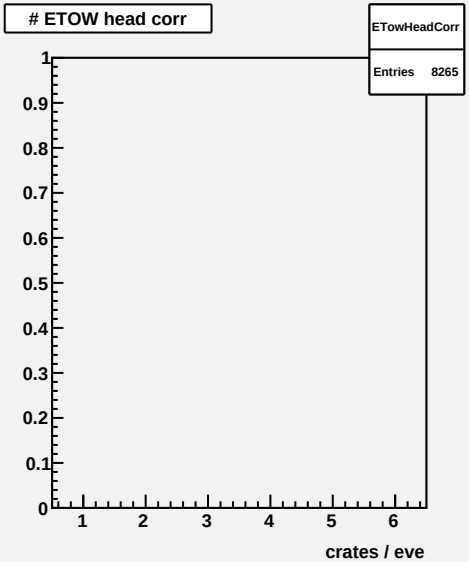

BPRS ADC, 1221 <= SoftId <= 2400
Entries 0
ADC
SoftId
14 13 12 11 10 9 8 7 6 5 4 3 2 1 30

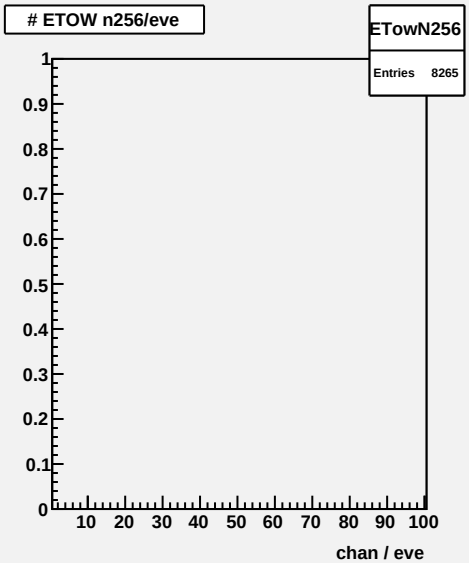

BPRS ADC, 2401 <= SoftId <= 3540
Entries 0
ADC
SoftId
33 34 35 36 37 38 39 40 41 42 43 44 45 46

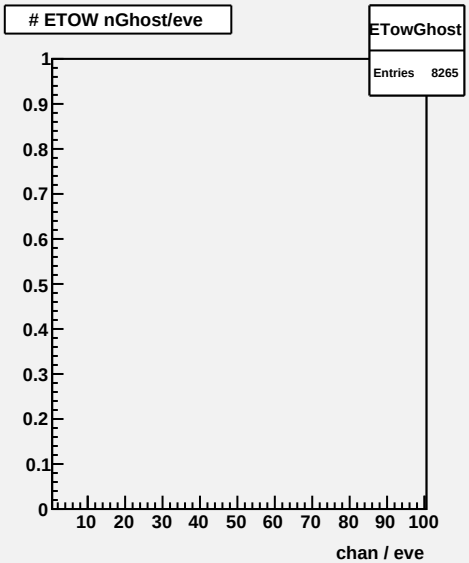

BPRS ADC, 3541 <= SoftId <= 4800
Entries 0
ADC
SoftId
47 48 49 50 51 52 53 54 55 56 57 58 59 60 31 32

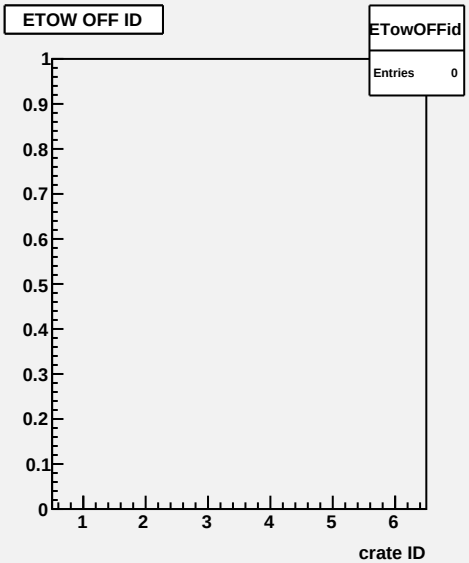

ETOW HEALTH
ETowHealth
Entries 0
events
X=corr. type

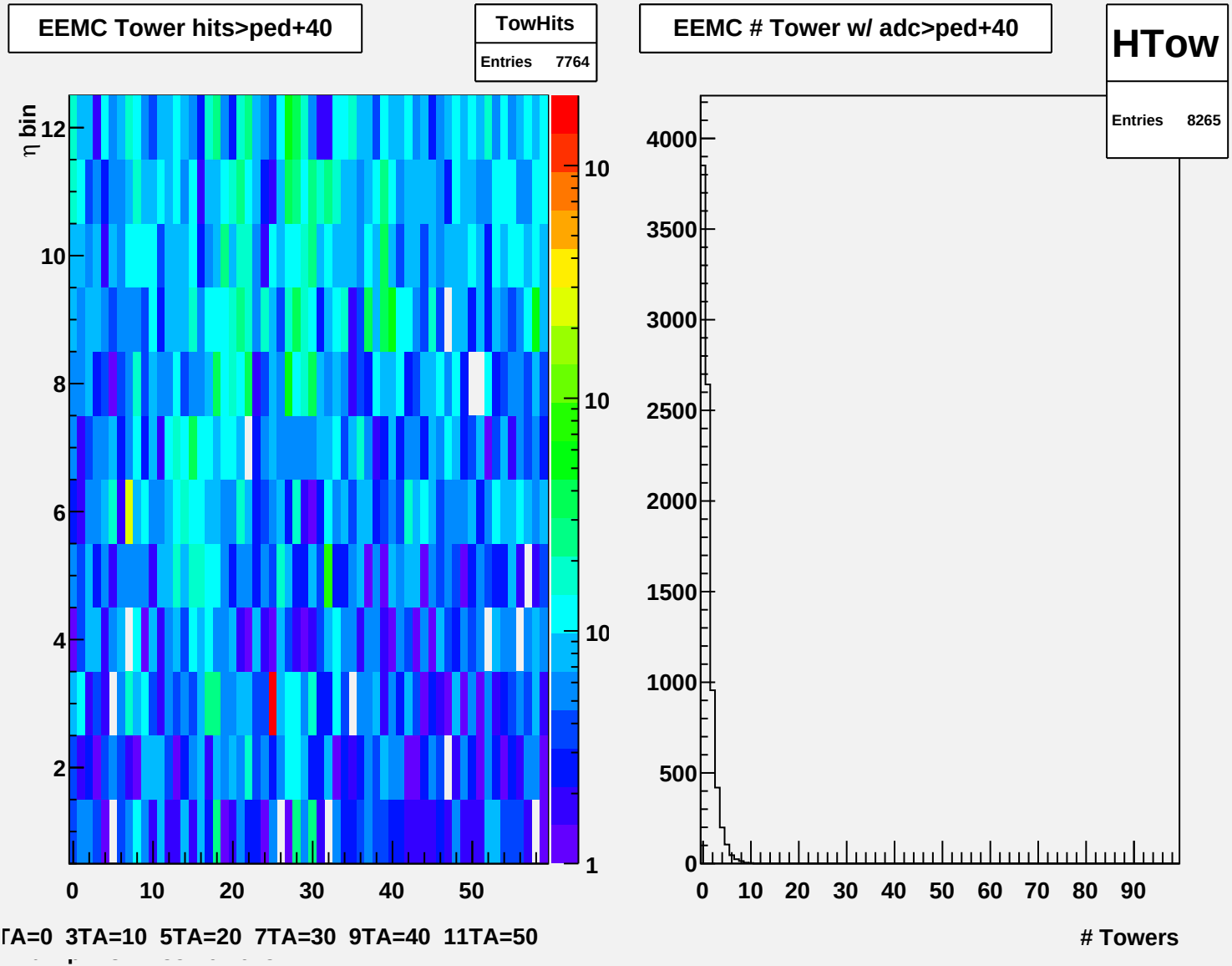

ETOW sanity
ETowCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

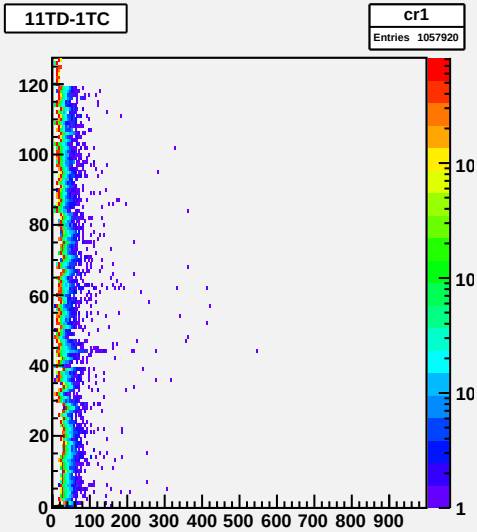

ETOW head corr
ETowHeadCorr
Entries 8265
crates / eve

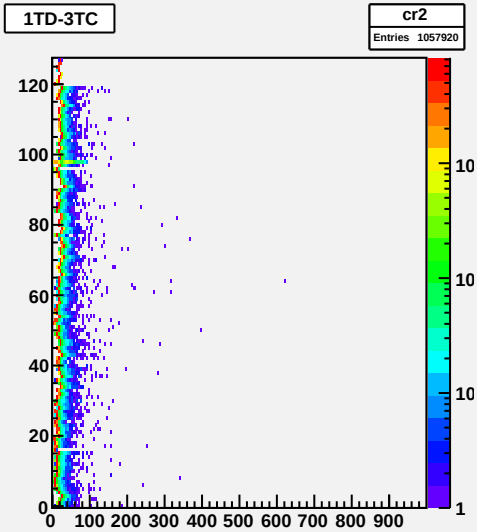

ETOW n256/eve
ETowN256
Entries 8265
chan / eve

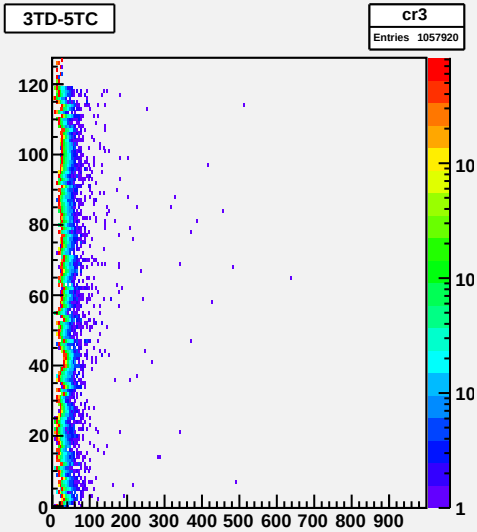

ETOW nGhost/eve
ETowGhost
Entries 8265
chan / eve

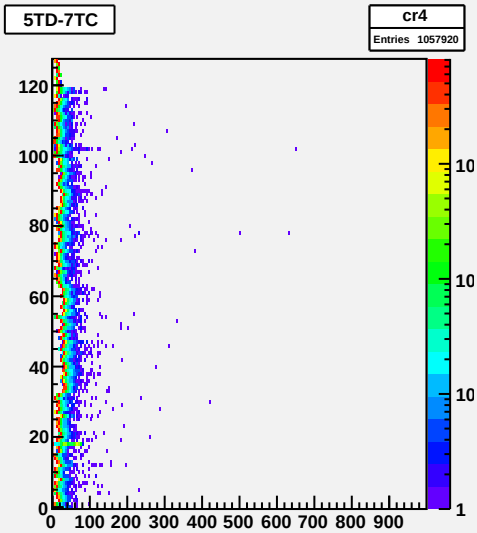

ETOW OFF ID
ETowOFFid
Entries 0
crate ID

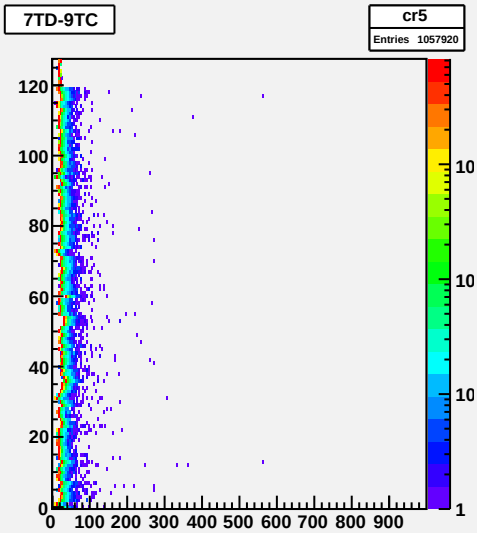

EEMC Tower hits>ped+40
TowHits
Entries 7764
η bin
12
10
8
6
4
2
0
10
20
30
40
50
10
10
10
1
ΓA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50
EEMC # Tower w/ adc>ped+40
HTow
Entries 8265
4000
3500
3000
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
Towers

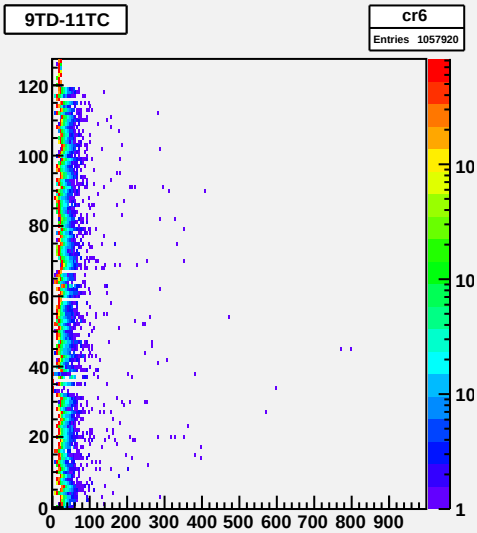

11TD-1TC
cr1
Entries 1057920

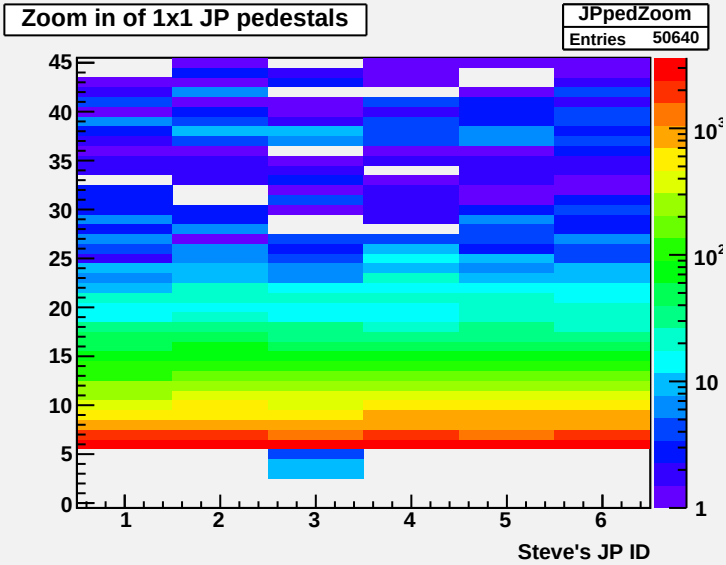

1TD-3TC
cr2
Entries 1057920

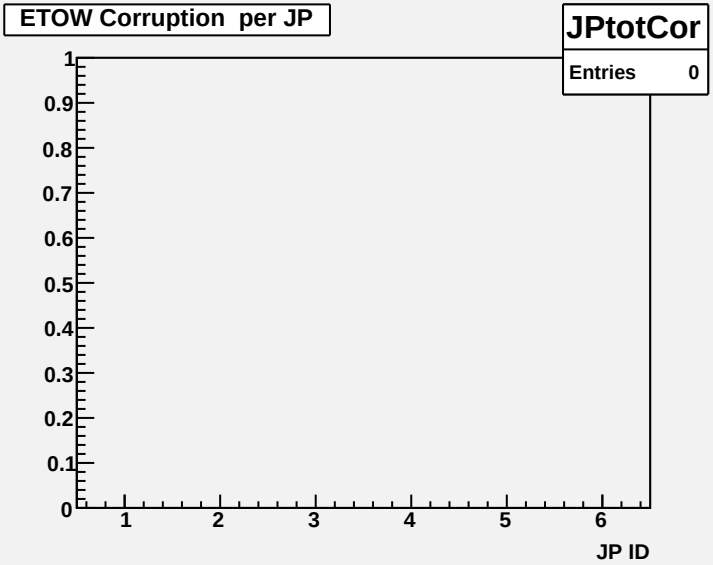

3TD-5TC
cr3
Entries 1057920

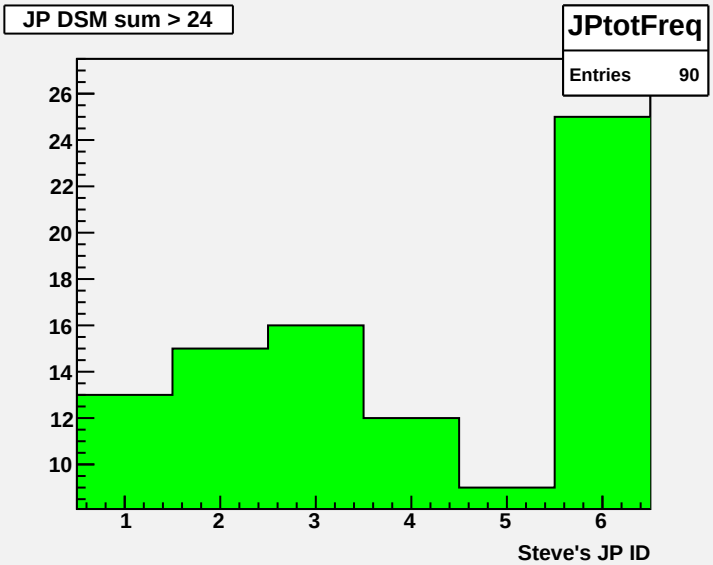

5TD-7TC
cr4
Entries 1057920

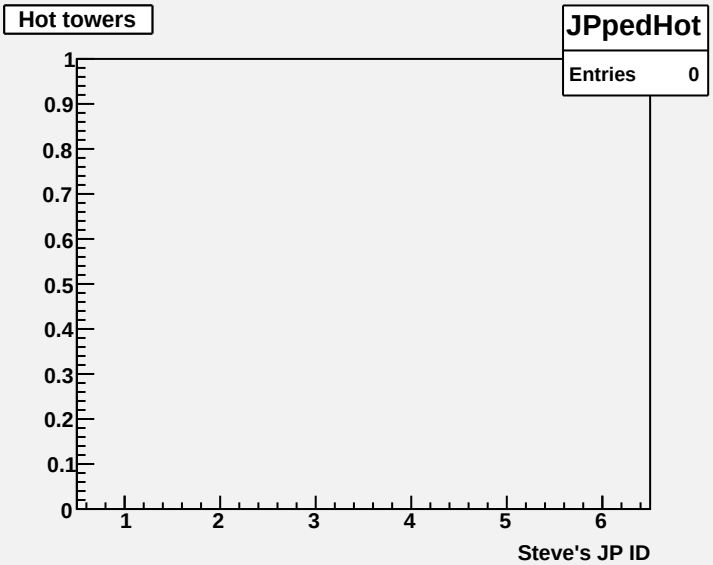

7TD-9TC
cr5
Entries 1057920

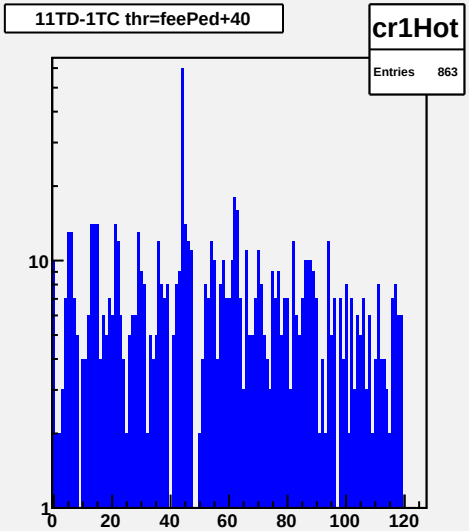

9TD-11TC
cr6
Entries 1057920

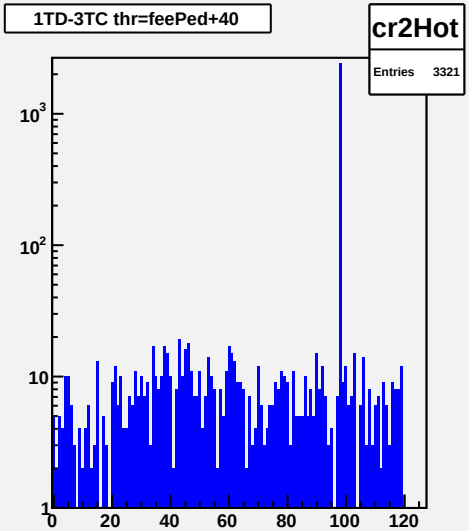

Zoom in of 1x1 JP pedestals
JPpedZoom
Entries 50640
Steve's JP ID

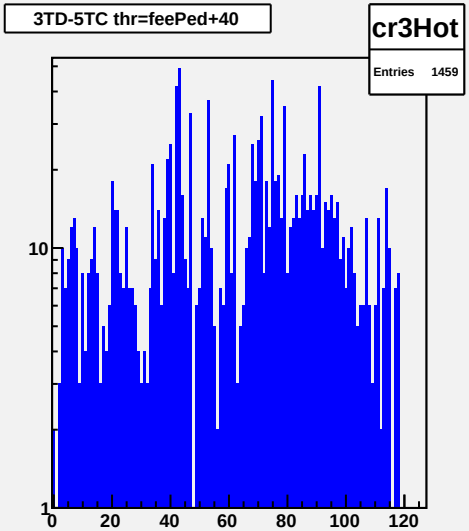

ETOW Corruption per JP
JPtotCor
Entries 0
JP ID

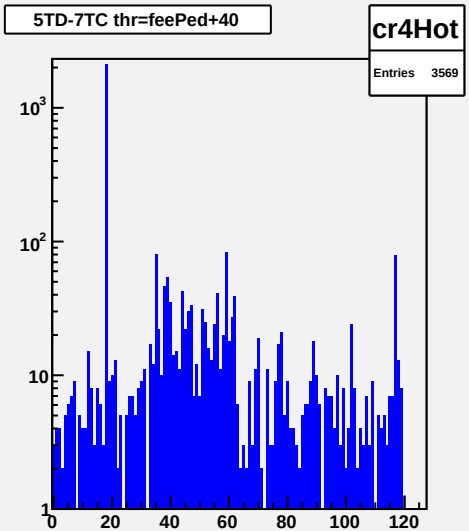

JP DSM sum > 24
JPtotFreq
Entries 90
Steve's JP ID

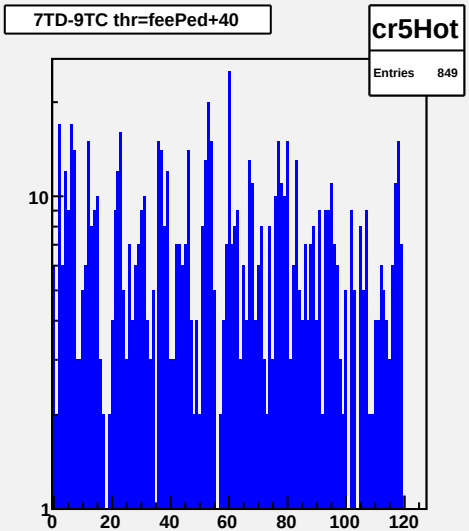

Hot towers
JPpedHot
Entries 0
Steve's JP ID

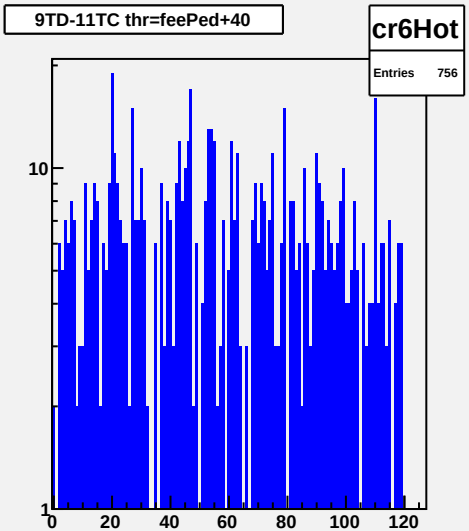

11TD-1TC thr=feePed+40
cr1Hot
Entries 863

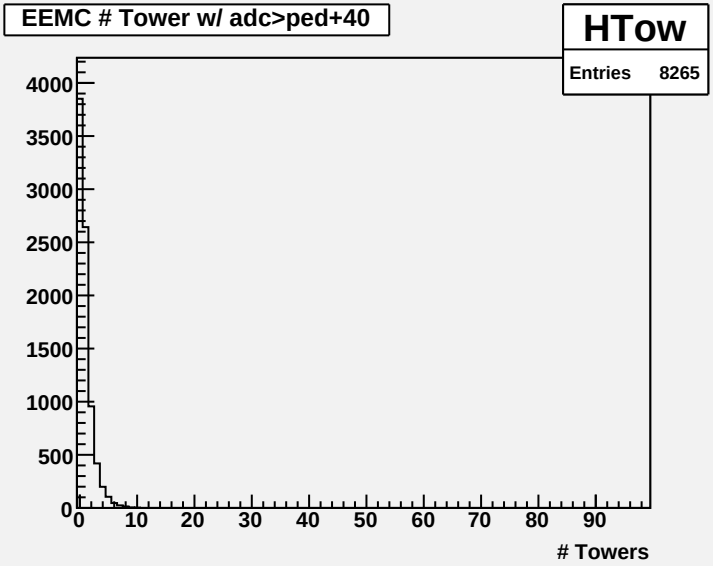

1TD-3TC thr=feePed+40
cr2Hot
Entries 3321

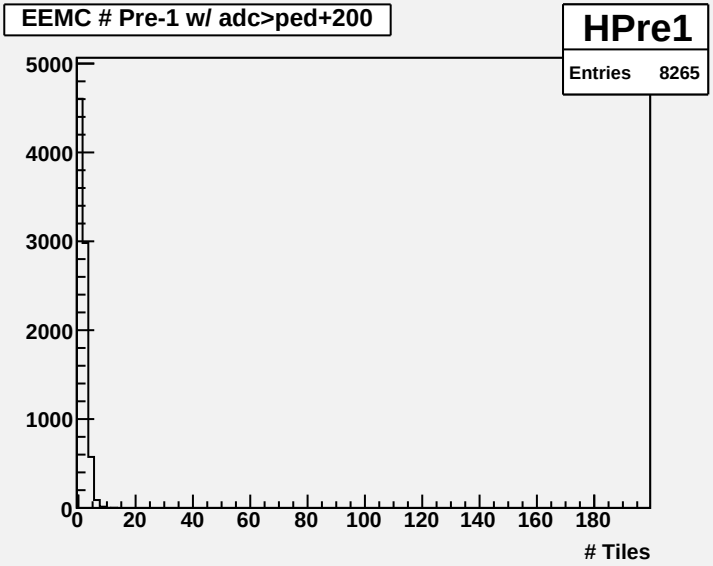

3TD-5TC thr=feePed+40
cr3Hot
Entries 1459

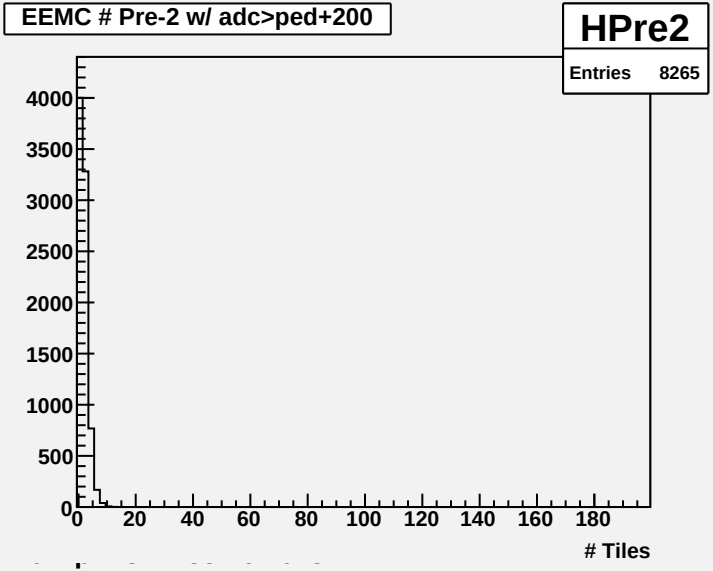

5TD-7TC thr=feePed+40
cr4Hot
Entries 3569

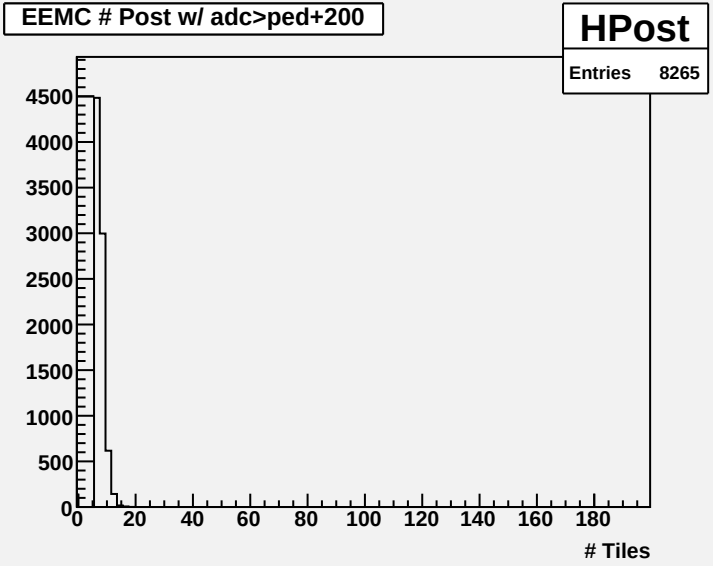

7TD-9TC thr=feePed+40
cr5Hot
Entries 849

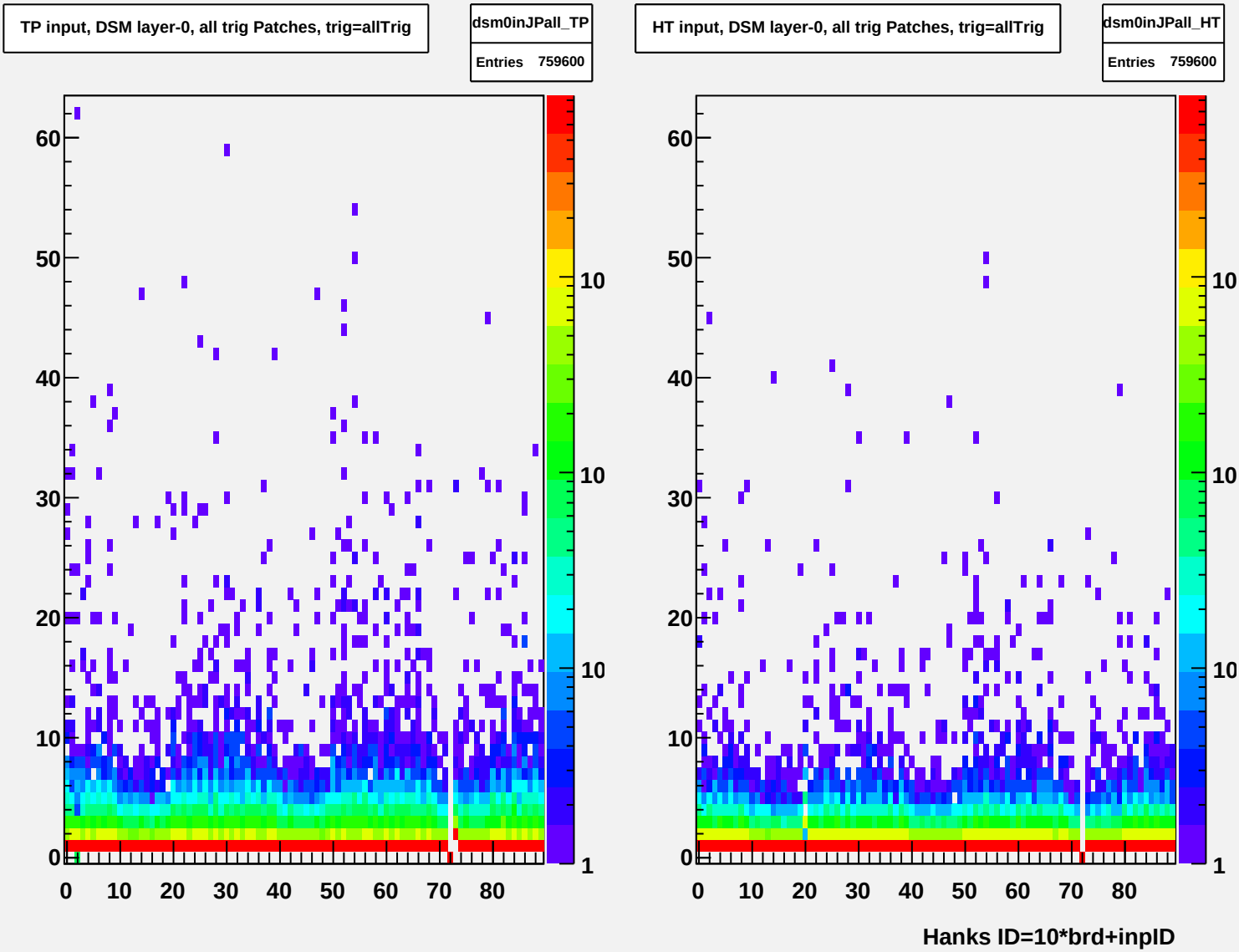

9TD-11TC thr=feePed+40
cr6Hot
Entries 756

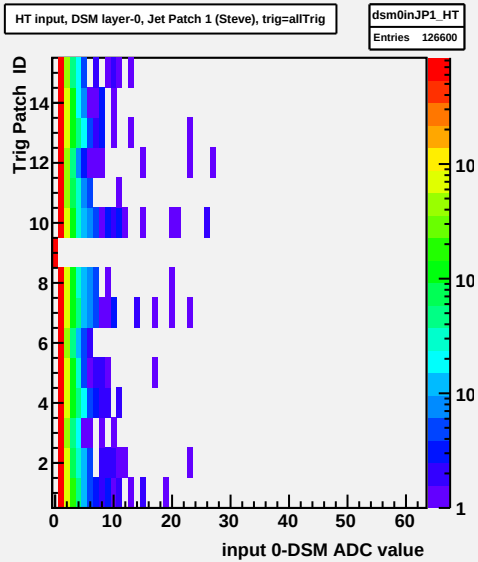

EEMC # Tower w/ adc>ped+40
HTow
Entries 8265
4000
3500
3000
2500
2000
1500
1000
500
0
0 10 20 30 40 50 60 70 80 90
Towers

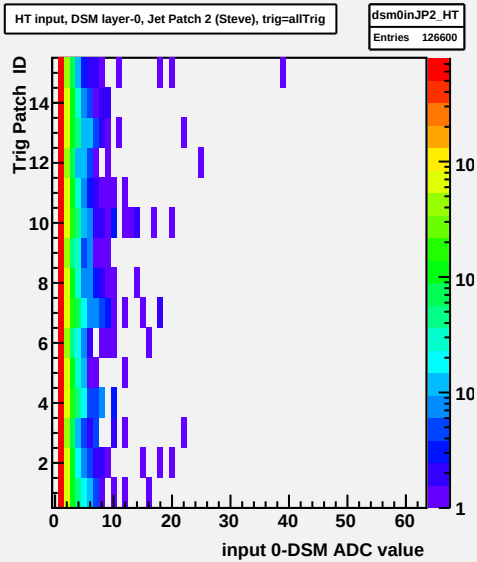

EEMC # Pre-1 w/ adc>ped+200
HPre1
Entries 8265
5000
4000
3000
2000
1000
0
0 20 40 60 80 100 120 140 160 180
Tiles

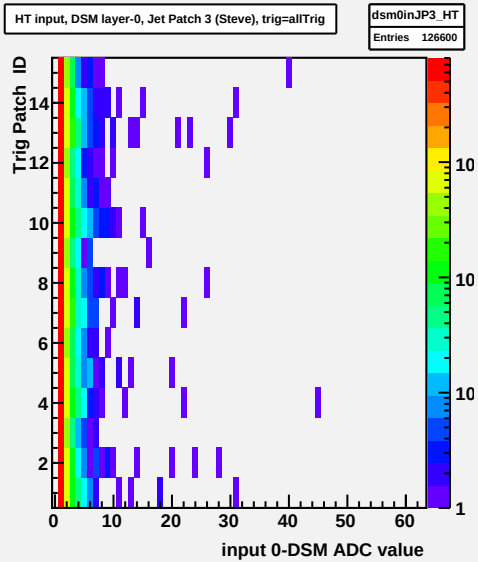

EEMC # Pre-2 w/ adc>ped+200
HPre2
Entries 8265
4000
3500
3000
2500
2000
1500
1000
500
0
0 20 40 60 80 100 120 140 160 180
Tiles

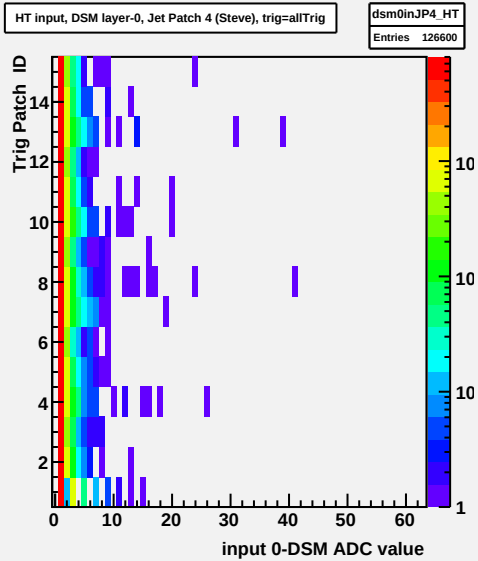

EEMC # Post w/ adc>ped+200
HPost
Entries 8265
4500
4000
3500
3000
2500
2000
1500
1000
500
0
0 20 40 60 80 100 120 140 160 180
Tiles

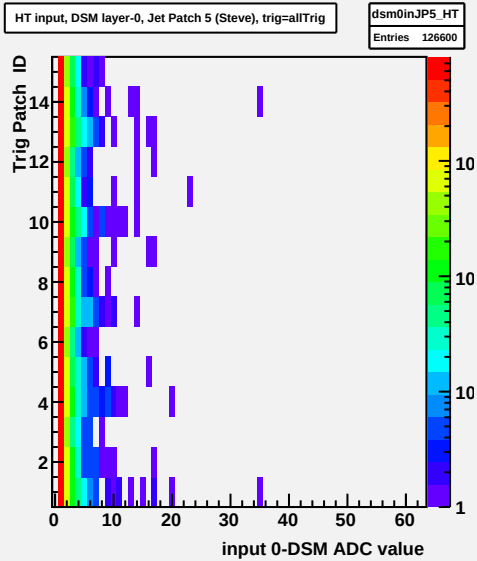

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 759600
HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 759600
0
10
20
30
40
50
60
70
80
1
10
Hanks ID=10*brd+inpID

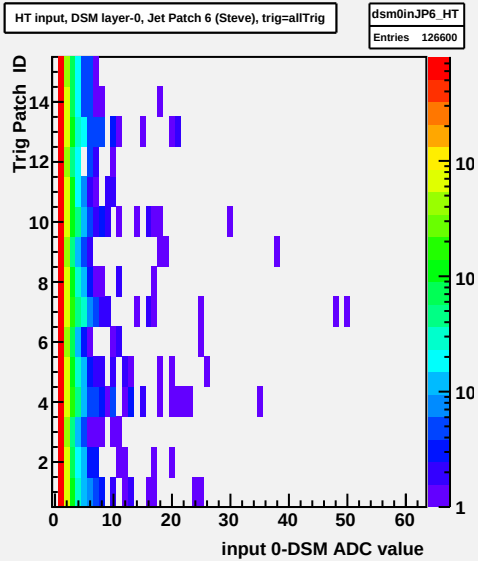

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 126600
Trig Patch ID
input 0-DSM ADC value

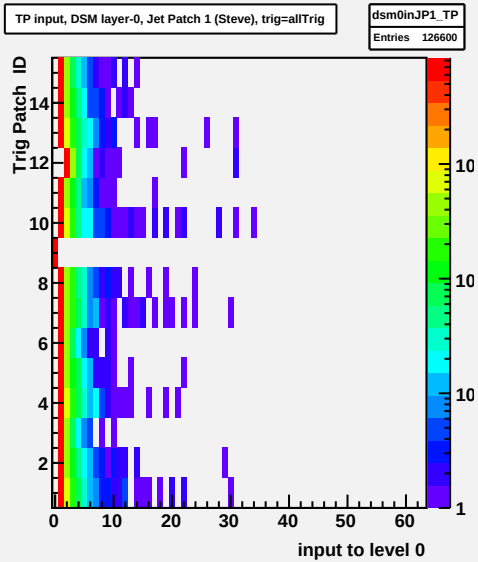

HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 126600
Trig Patch ID
input 0-DSM ADC value

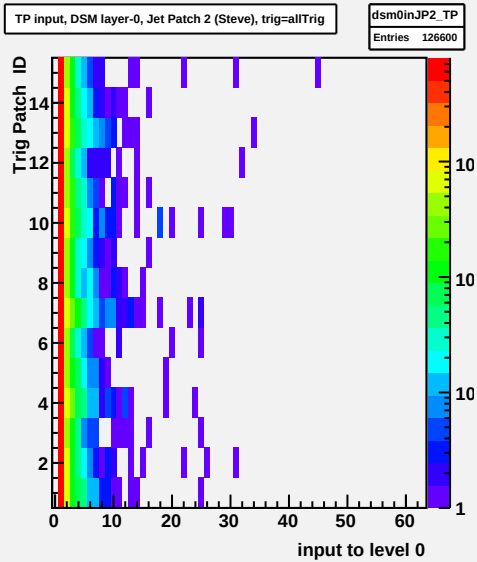

HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 126600
Trig Patch ID
input 0-DSM ADC value

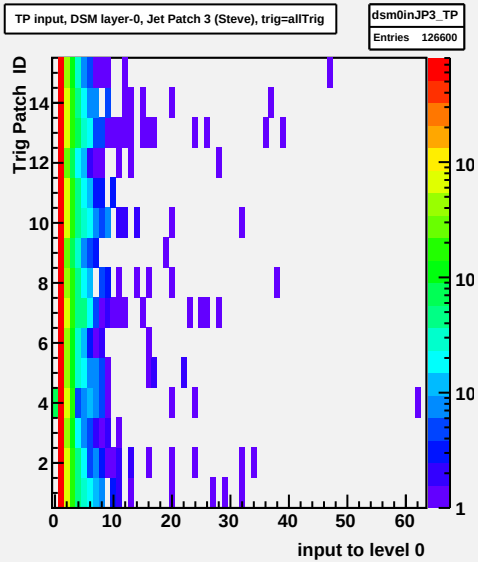

HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 126600
Trig Patch ID
input 0-DSM ADC value

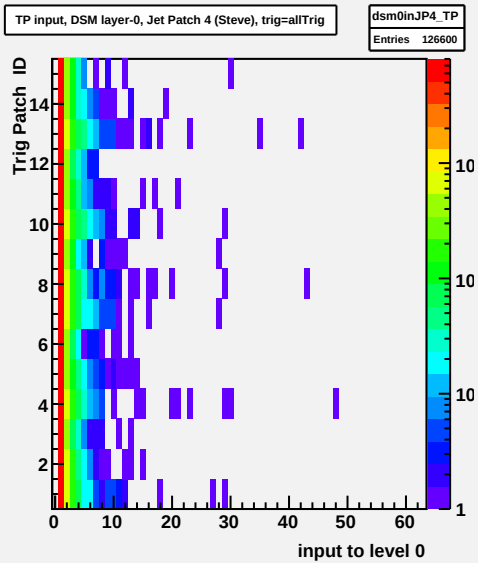

HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 126600
Trig Patch ID
input 0-DSM ADC value

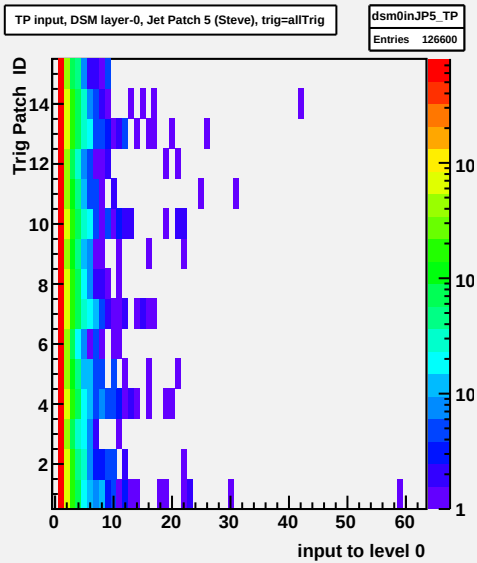

HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 126600
Trig Patch ID
input 0-DSM ADC value

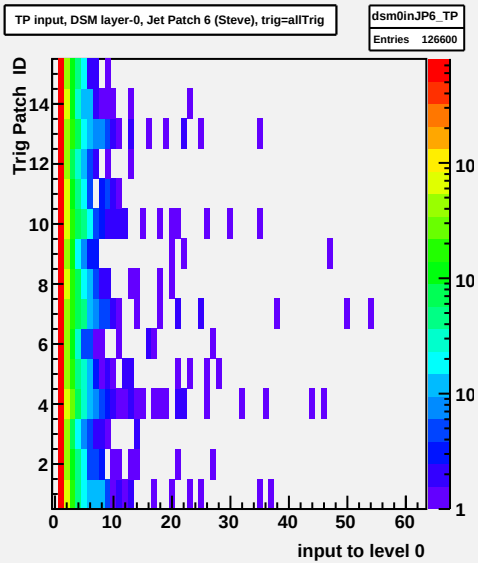

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 126600
Trig Patch ID
input to level 0

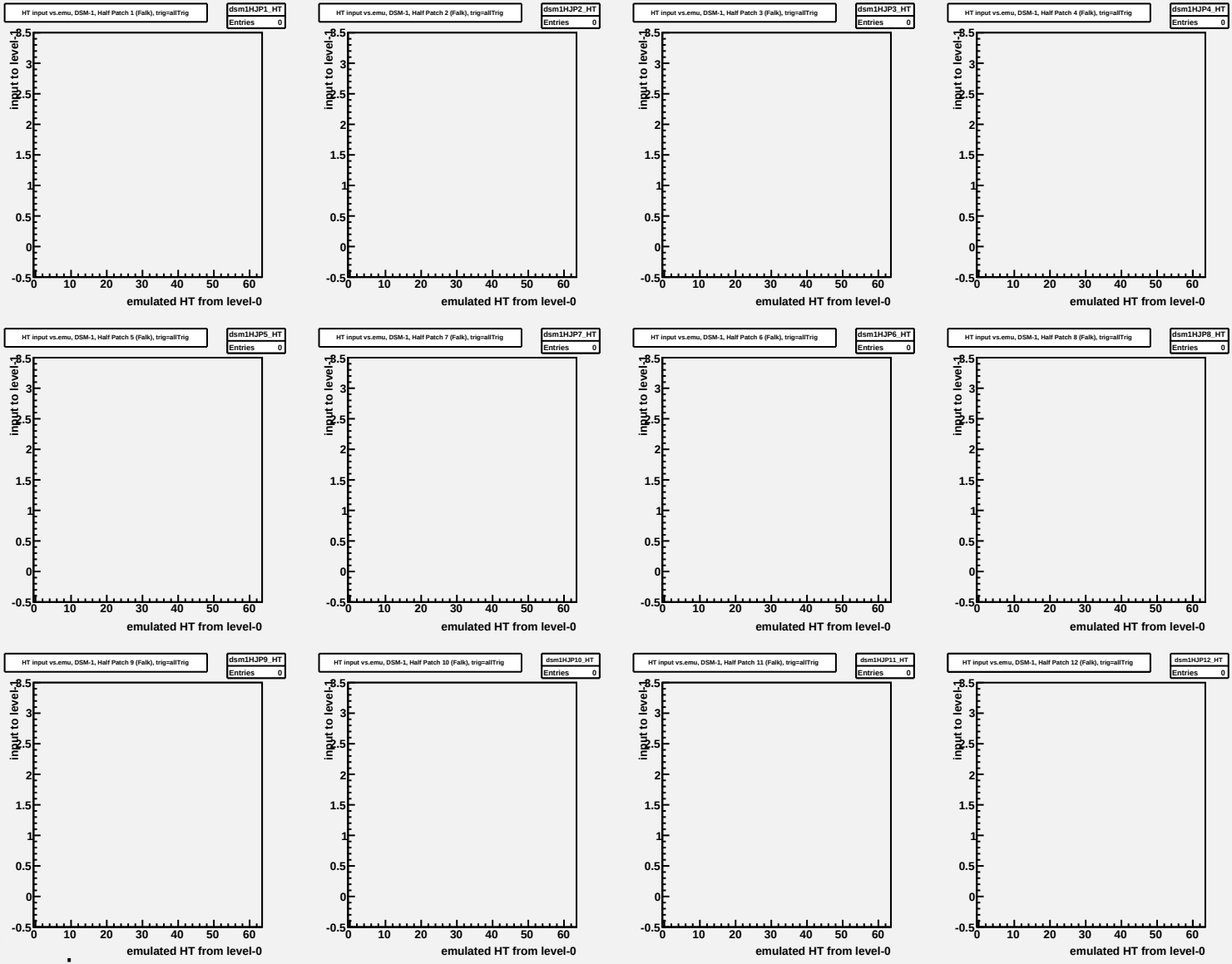

TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 126600
Trig Patch ID
input to level 0


TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 126600
Trig Patch ID
input to level 0

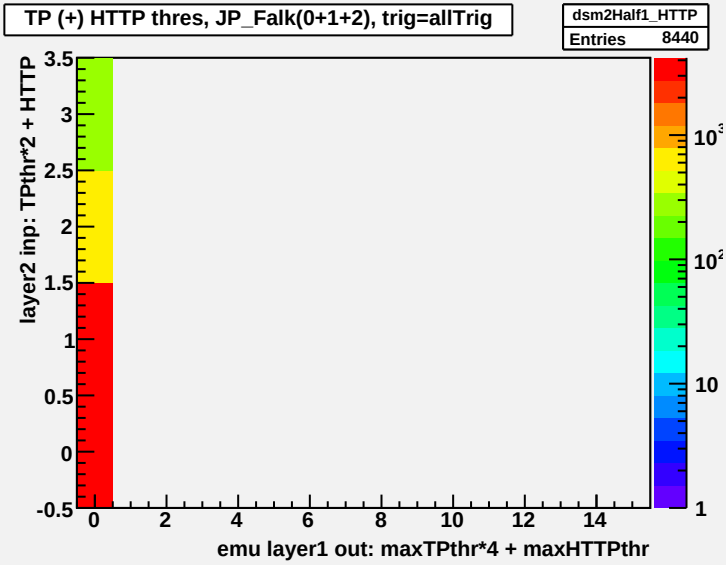

TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 126600
Trig Patch ID
input to level 0

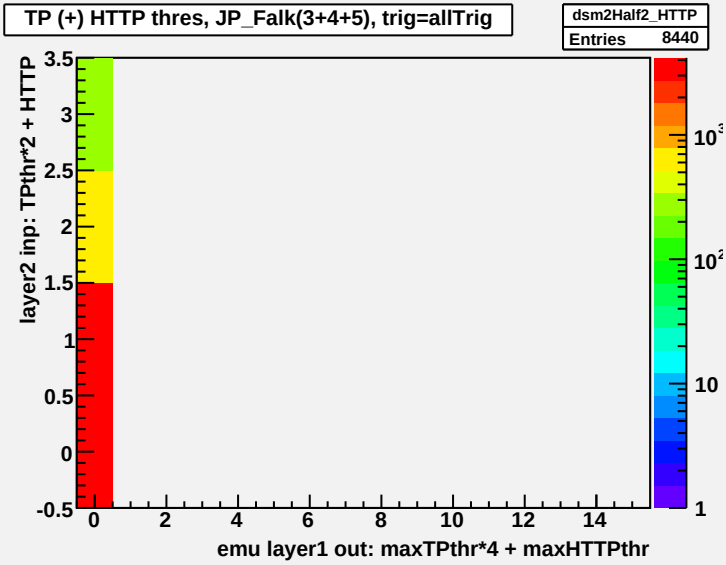

TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 126600
Trig Patch ID
input to level 0

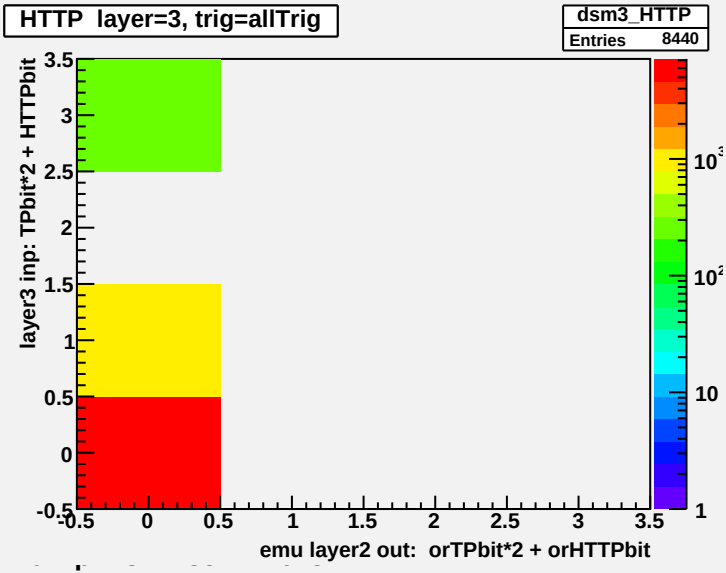

TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 126600
Trig Patch ID
input to level 0

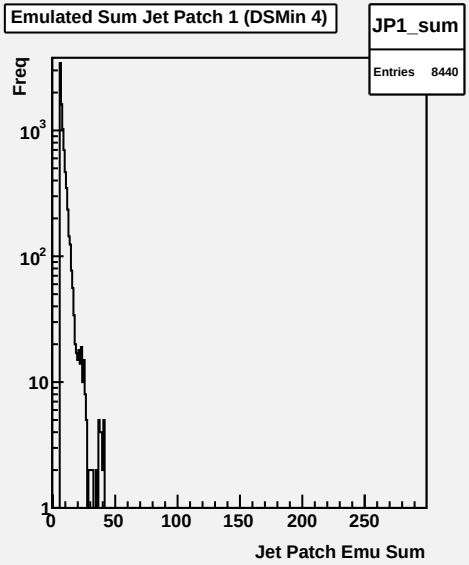

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 0
HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT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

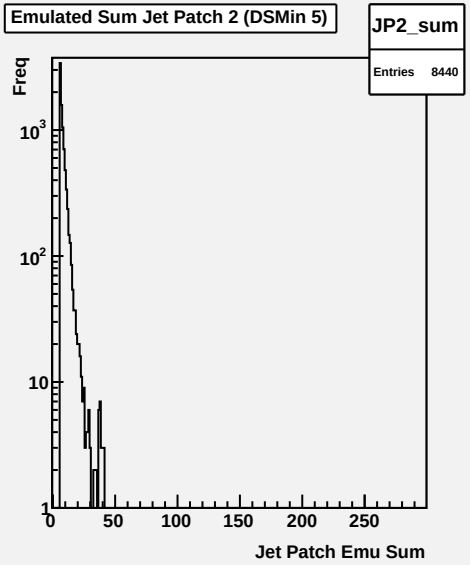
TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries 0
TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig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

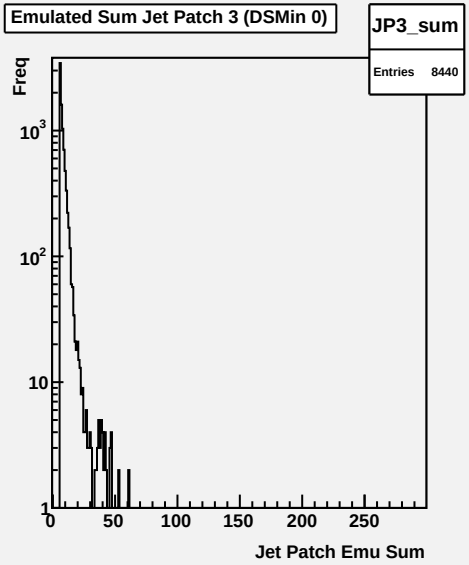

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 8440
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

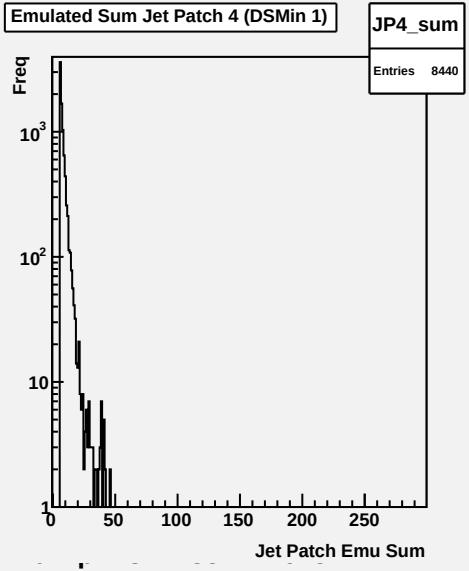

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 8440
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

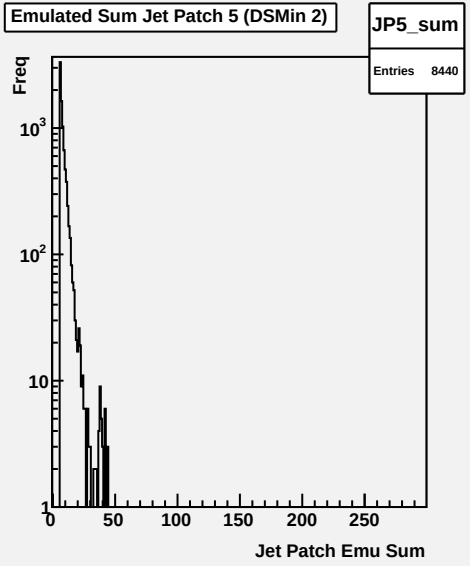

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 8440
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

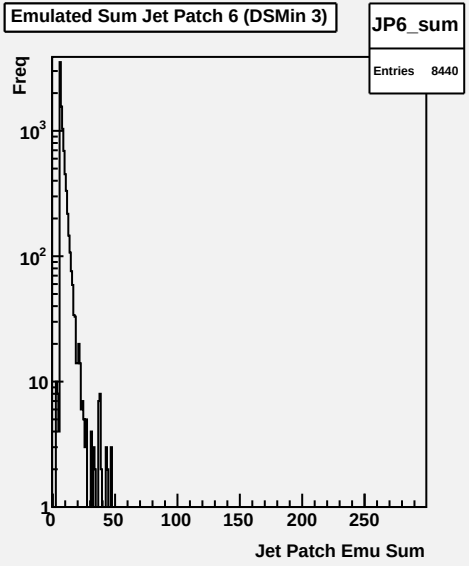

Emulated Sum Jet Patch 1 (DSMin 4)
JP1_sum
Entries 8440
Freq
Jet Patch Emu Sum

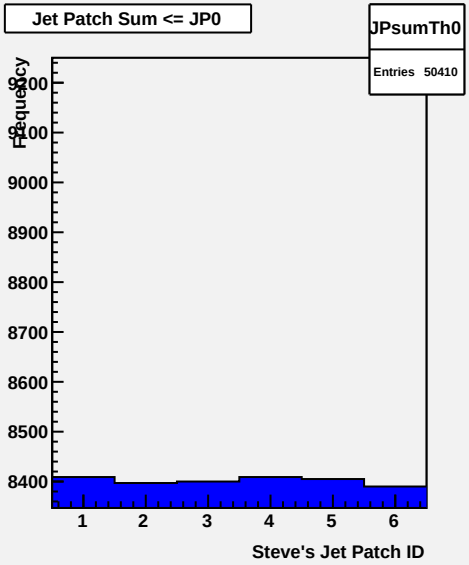

Emulated Sum Jet Patch 2 (DSMin 5)
JP2_sum
Entries 8440
Freq
Jet Patch Emu Sum

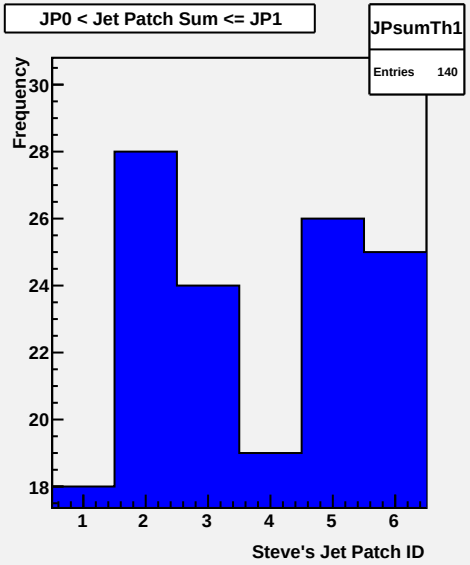

Emulated Sum Jet Patch 3 (DSMin 0)
JP3_sum
Entries 8440
Freq
Jet Patch Emu Sum

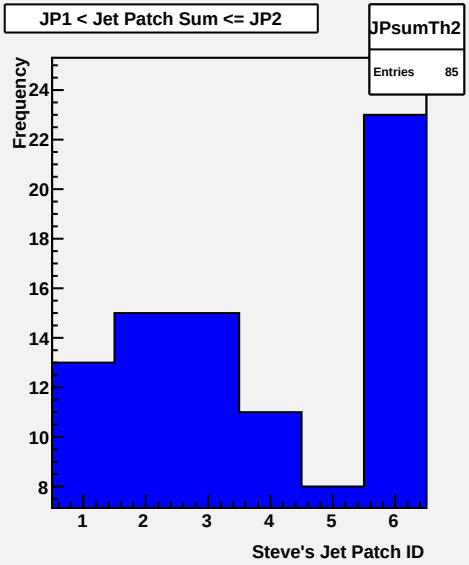

Emulated Sum Jet Patch 4 (DSMin 1)
JP4_sum
Entries 8440
Freq
Jet Patch Emu Sum

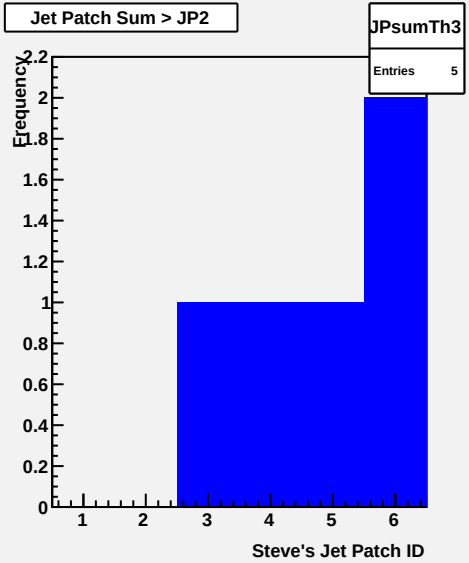

Emulated Sum Jet Patch 5 (DSMin 2)
JP5_sum
Entries 8440
Freq
Jet Patch Emu Sum

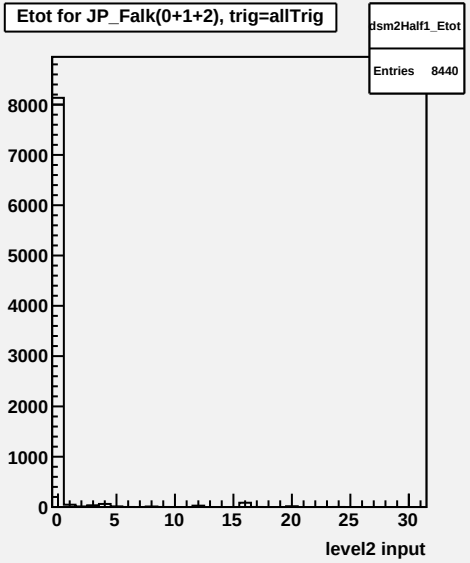

Emulated Sum Jet Patch 6 (DSMin 3)
JP6_sum
Entries 8440
Freq
Jet Patch Emu Sum

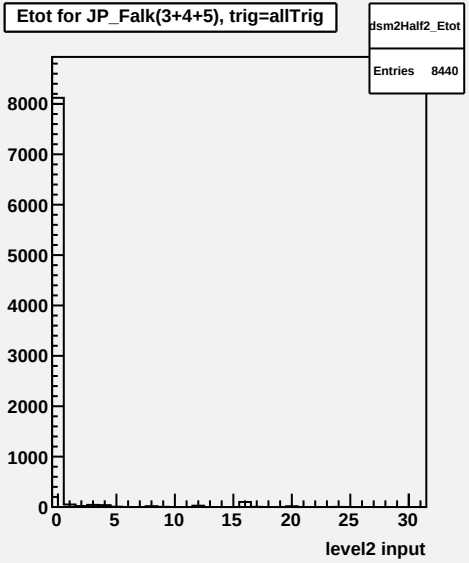

Jet Patch Sum <= JP0
JPsumTh0
Entries 50410
Frequency
Steve's Jet Patch ID

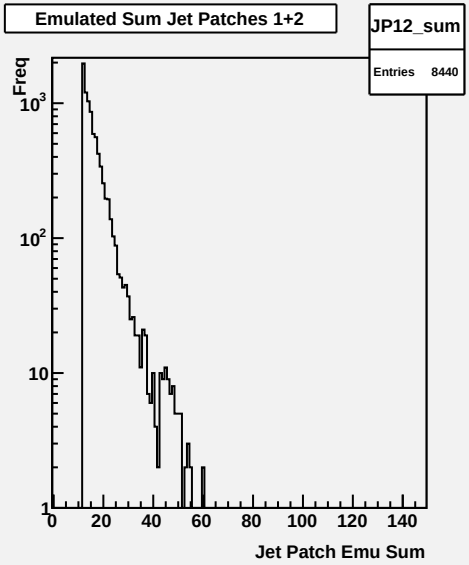

JP0 < Jet Patch Sum <= JP1
JPsumTh1
Entries 140
Frequency
Steve's Jet Patch ID

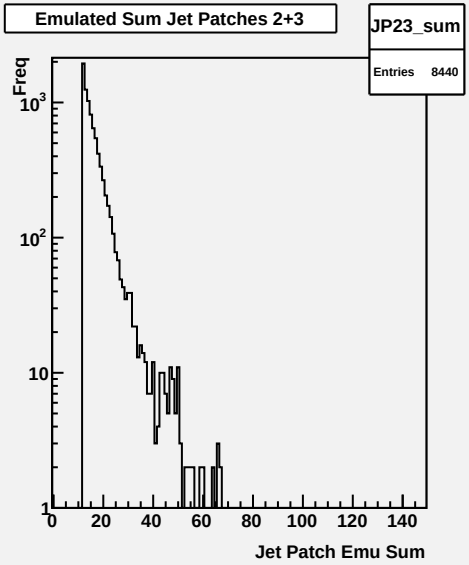

JP1 < Jet Patch Sum <= JP2
JPsumTh2
Entries 85
Frequency
Steve's Jet Patch ID

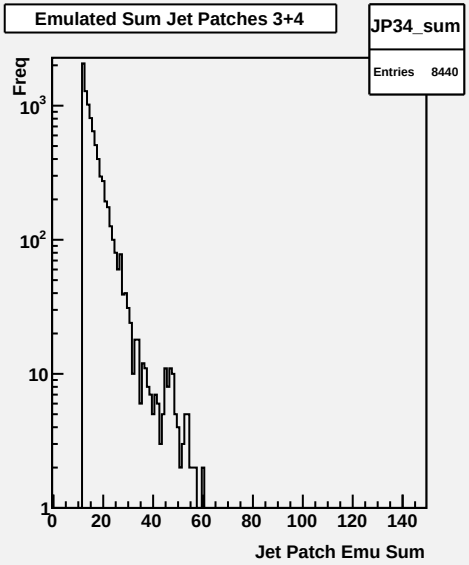

Jet Patch Sum > JP2
JPsumTh3
Entries 5
Frequency
Steve's Jet Patch ID

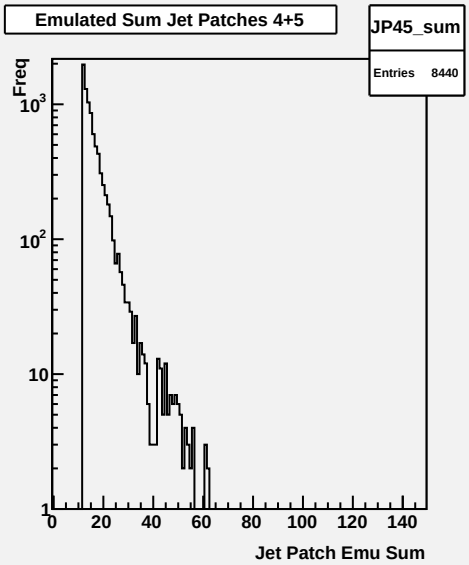

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 8440
level2 input

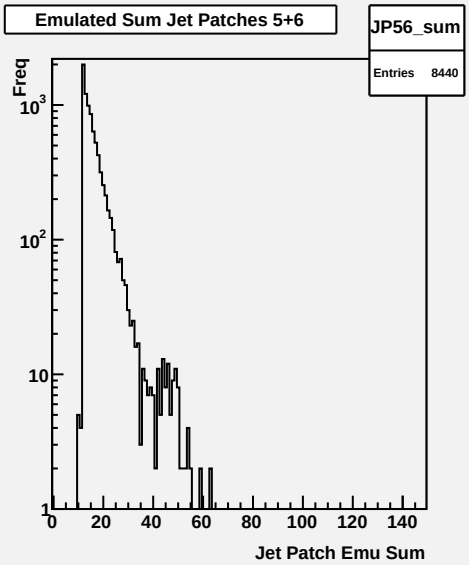

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 8440
level2 input

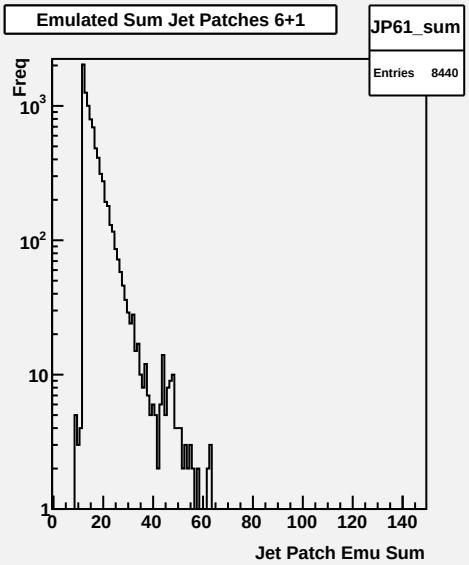

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 8440
Freq
Jet Patch Emu Sum

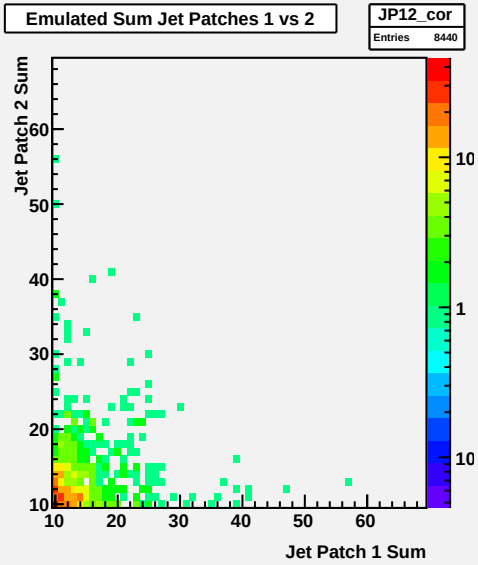

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 8440
Freq
Jet Patch Emu Sum

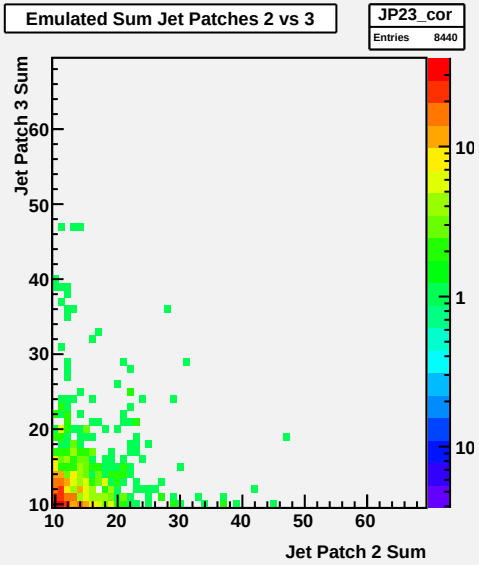

Emulated Sum Jet Patches 3+4
JP34_sum
Entries 8440
Freq
Jet Patch Emu Sum

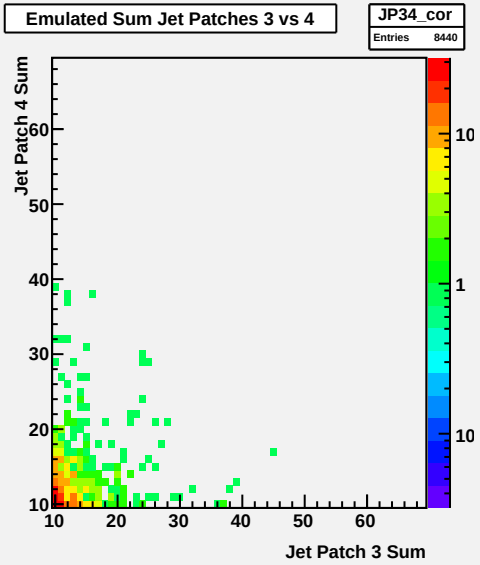

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 8440
Freq
Jet Patch Emu Sum

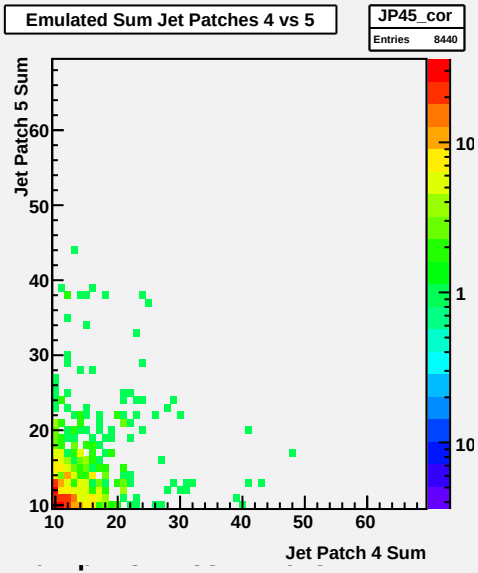

Emulated Sum Jet Patches 5+6
JP56_sum
Entries 8440
Freq
Jet Patch Emu Sum

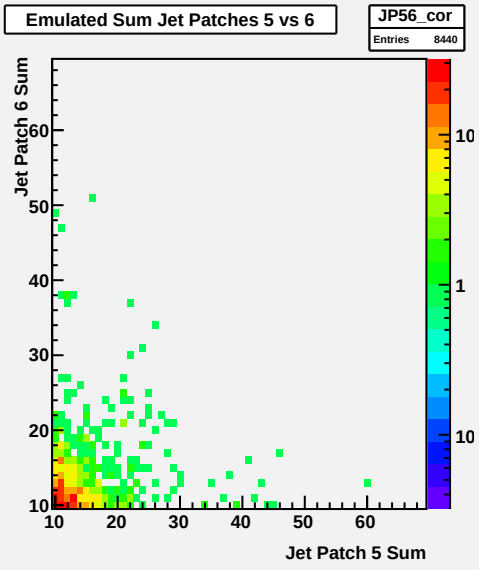

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 8440
Freq
Jet Patch Emu Sum

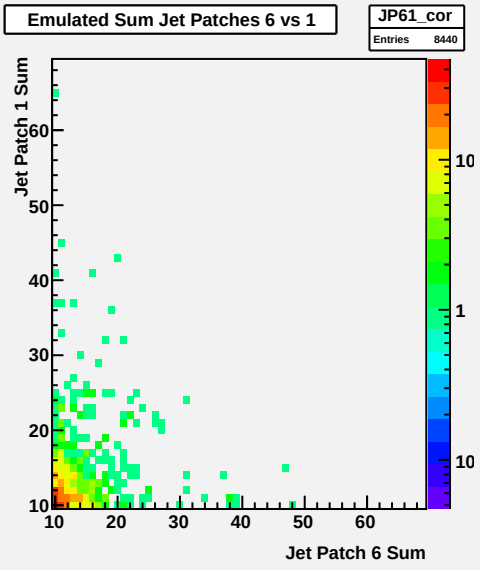

Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 8440
Jet Patch 2 Sum
Jet Patch 1 Sum

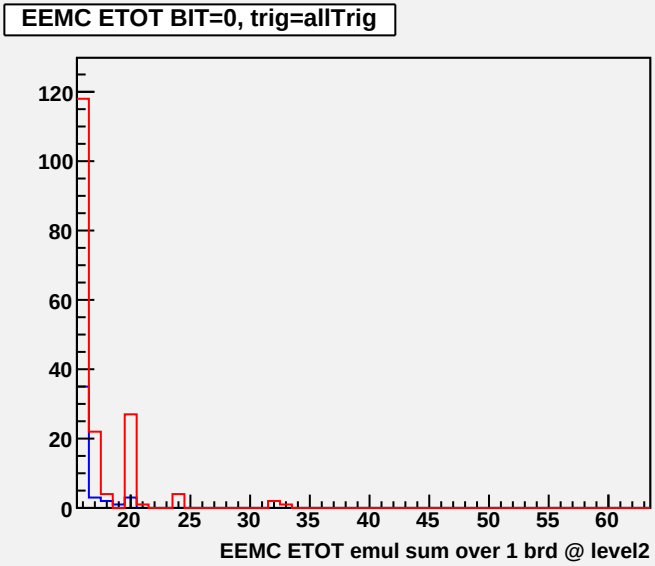

Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 8440
Jet Patch 3 Sum
Jet Patch 2 Sum

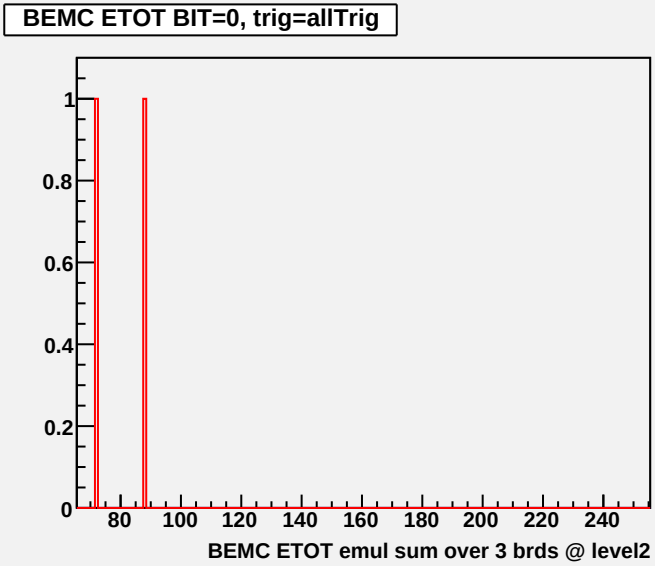

Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 8440
Jet Patch 4 Sum
Jet Patch 3 Sum

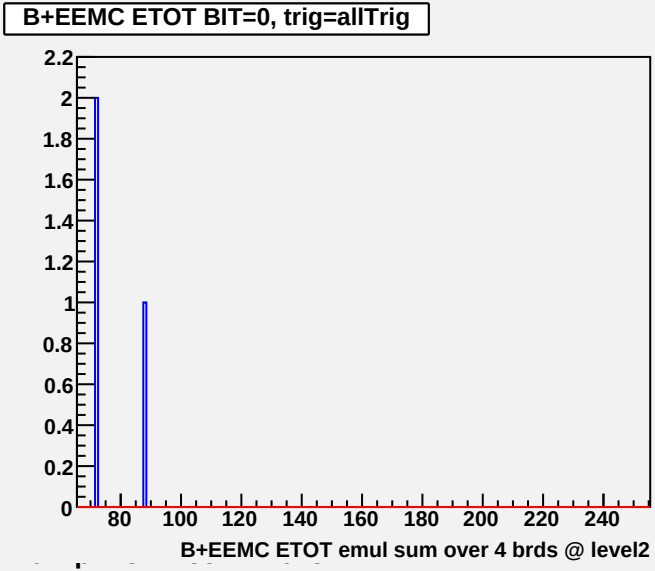

Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 8440
Jet Patch 5 Sum
Jet Patch 4 Sum

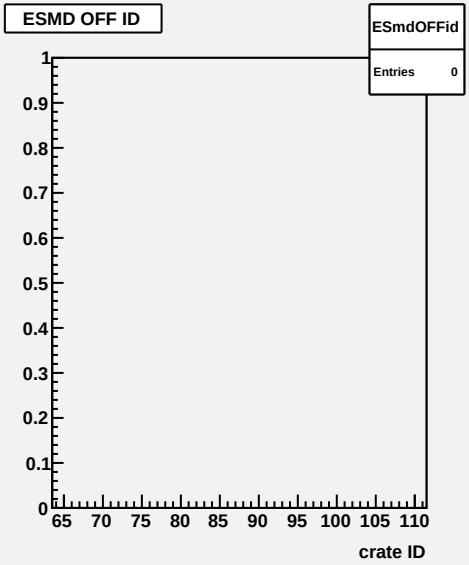

Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 8440
Jet Patch 6 Sum
Jet Patch 5 Sum

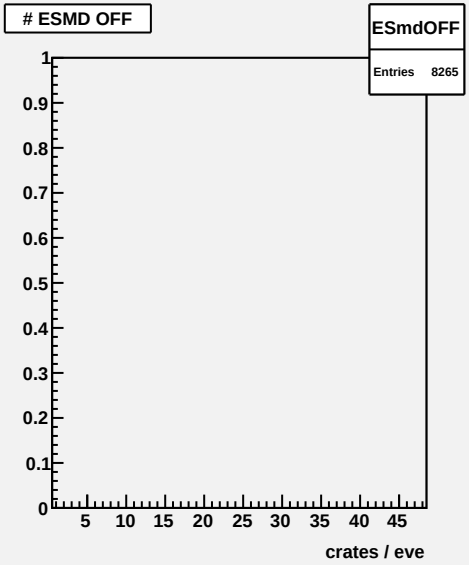

Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 8440
Jet Patch 1 Sum
Jet Patch 6 Sum

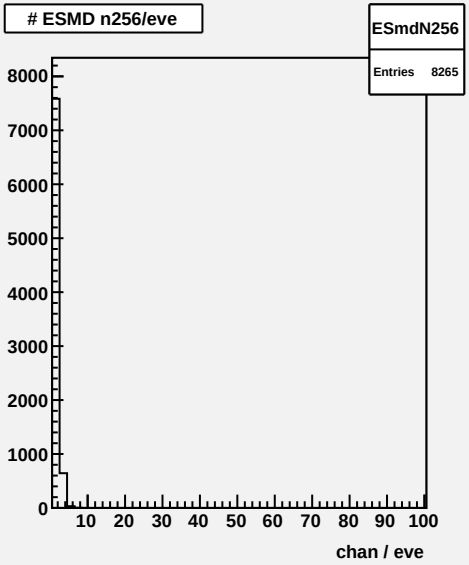

EEMC ETOT BIT=0, trig=allTrig
120
100
80
60
40
20
0
20
25
30
35
40
45
50
55
60
EEMC ETOT emul sum over 1 brd @ level2

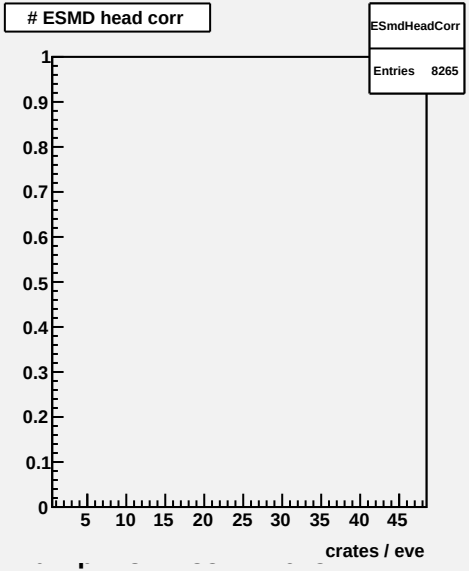

BEMC ETOT BIT=0, trig=allTrig
1
0.8
0.6
0.4
0.2
0
80
100
120
140
160
180
200
220
240
BEMC ETOT emul sum over 3 brds @ level2

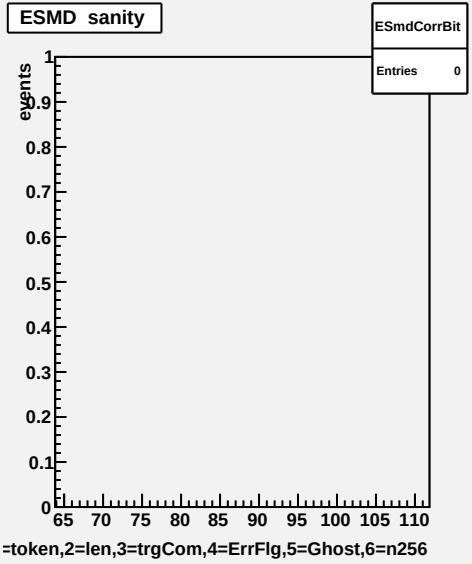

B+EEMC ETOT BIT=0, trig=allTrig
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
80
100
120
140
160
180
200
220
240
B+EEMC ETOT emul sum over 4 brds @ level2

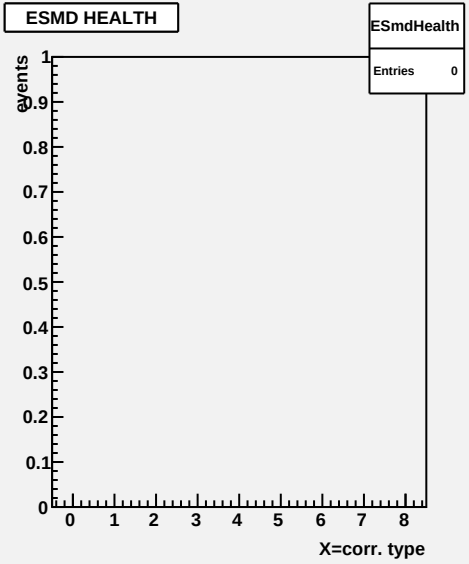

ESMD OFF ID
ESmdOFFid
Entries 0
crate ID

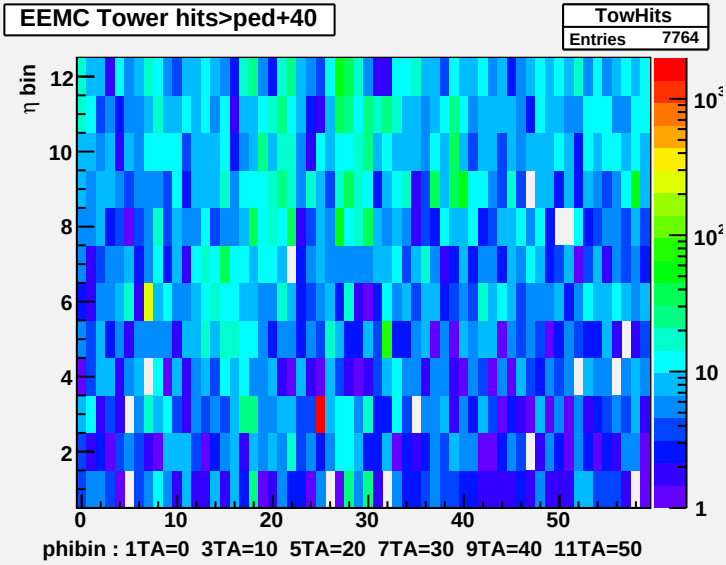

ESMD OFF
ESmdOFF
Entries 8265
crates / eve

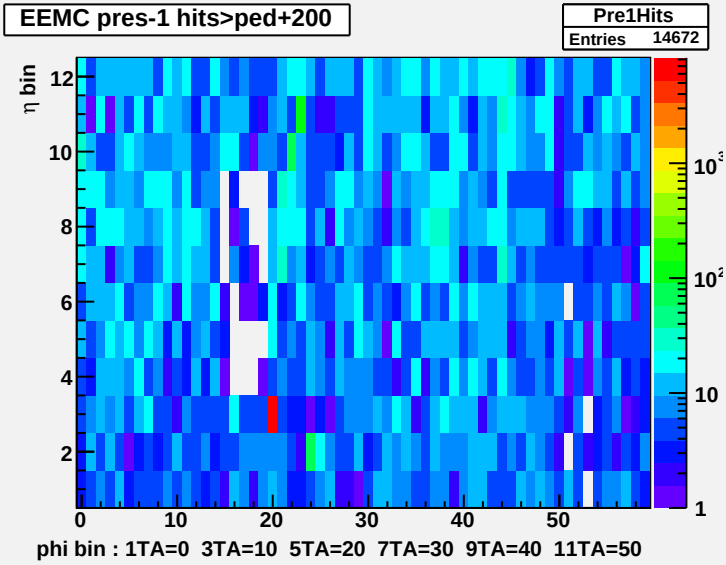

ESMD n256/eve
ESmdN256
Entries 8265
chan / eve

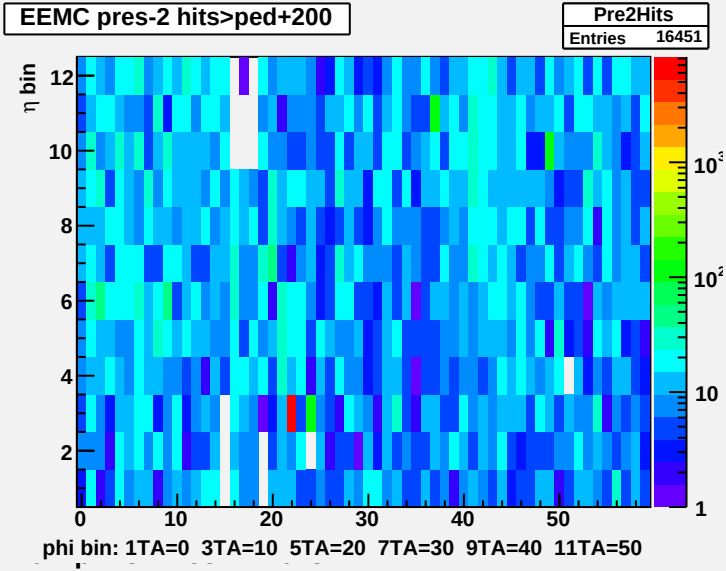

ESMD head corr
ESmdHeadCorr
Entries 8265
crates / eve

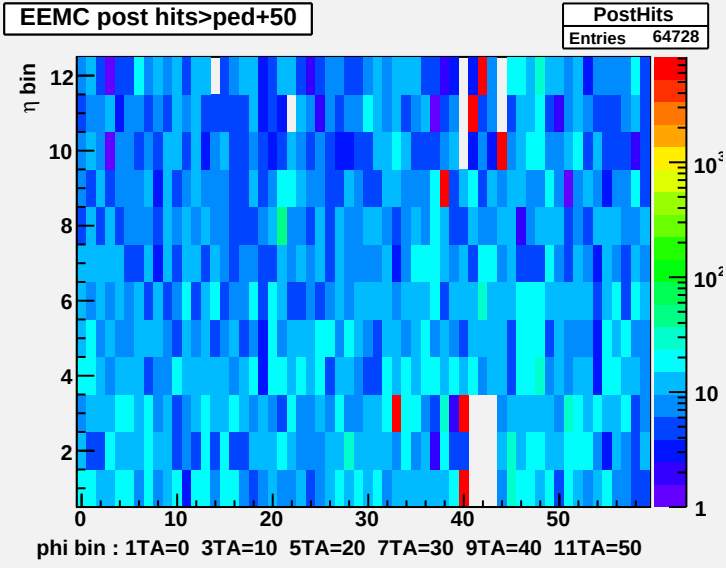

ESMD sanity
ESmdCorrBit
Entries 0
events
=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

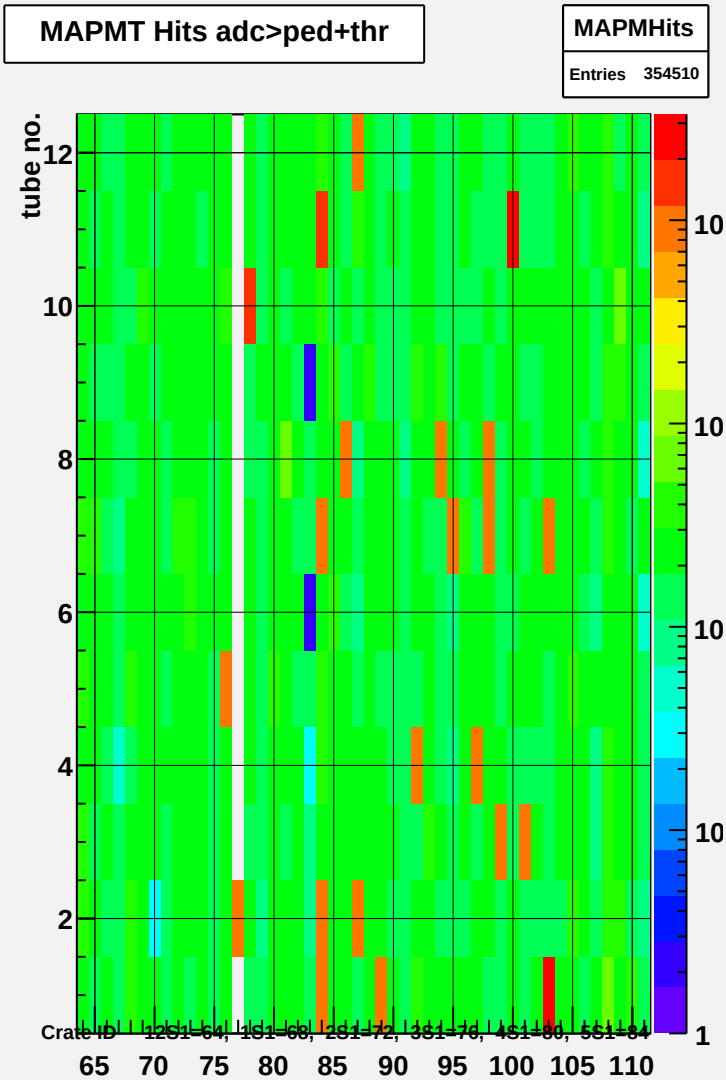

ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

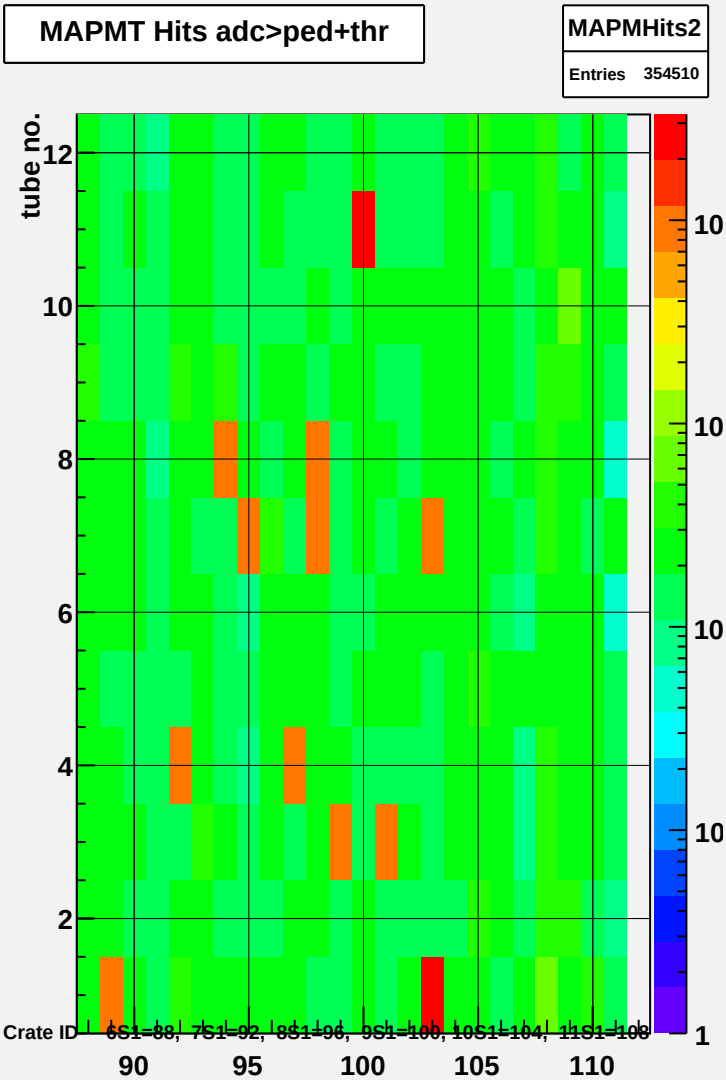

EEMC Tower hits>ped+40
TowHits
Entries 7764
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

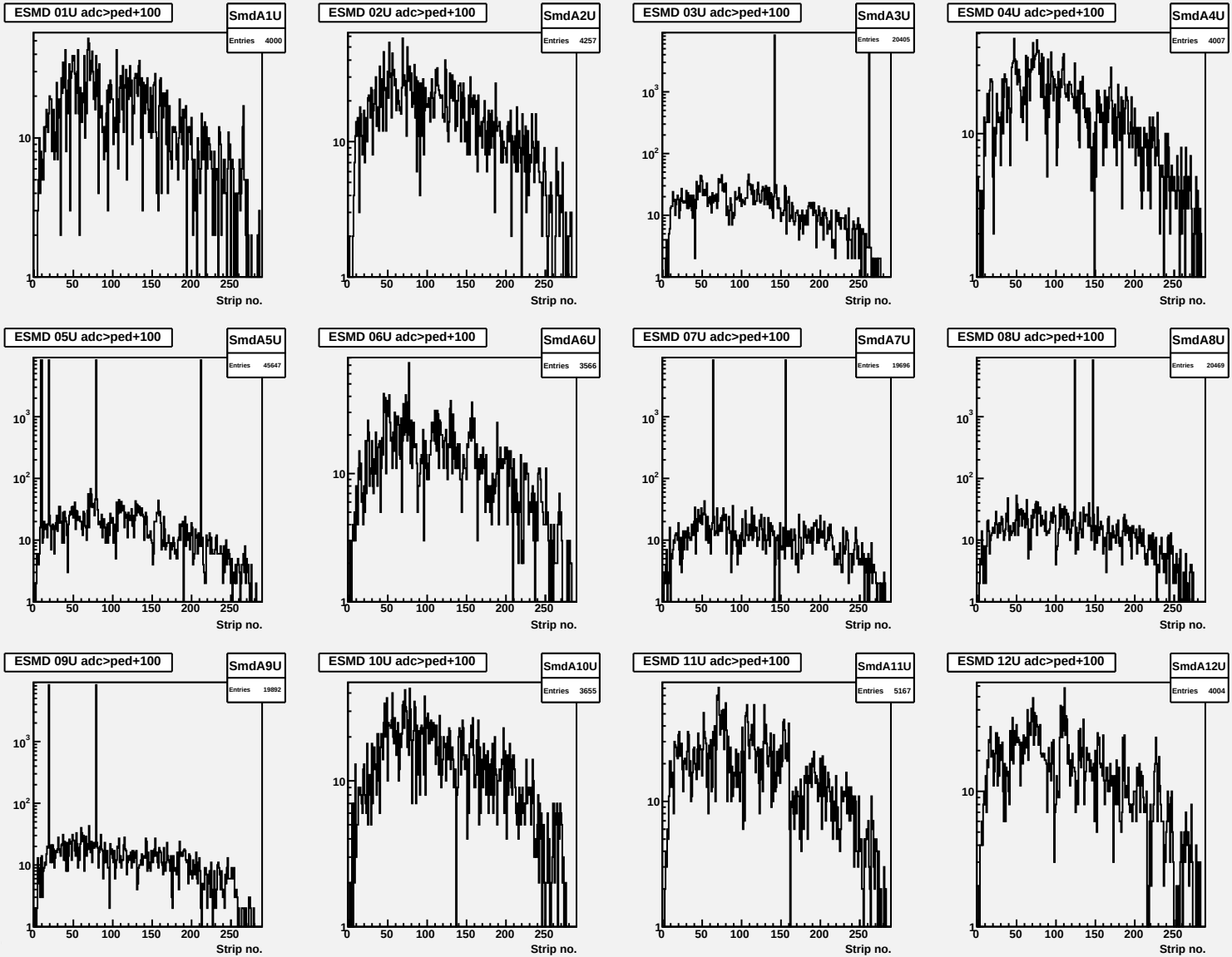

EEMC pres-1 hits>ped+200
Pre1Hits
Entries 14672
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

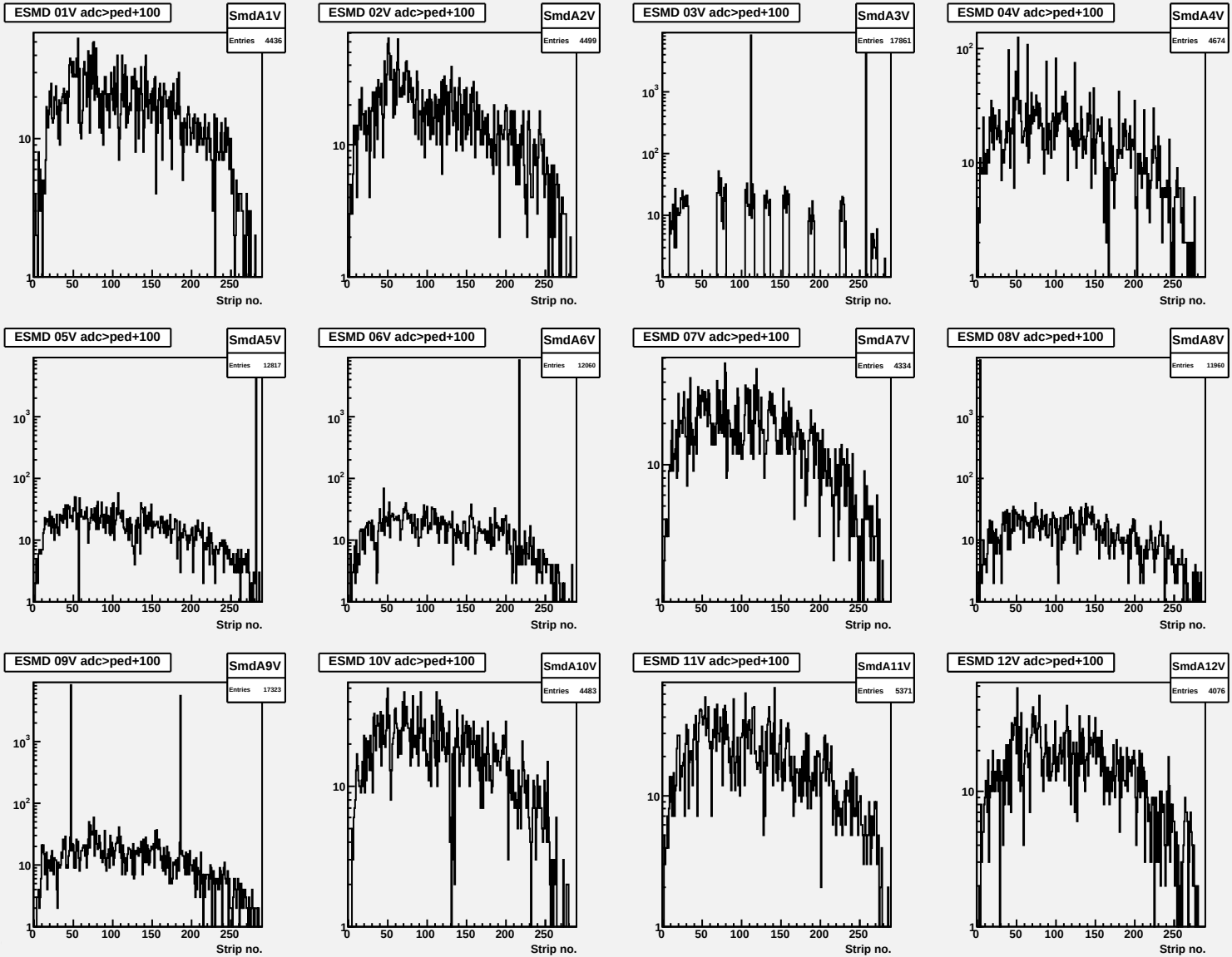

EEMC pres-2 hits>ped+200
Pre2Hits
Entries 16451
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

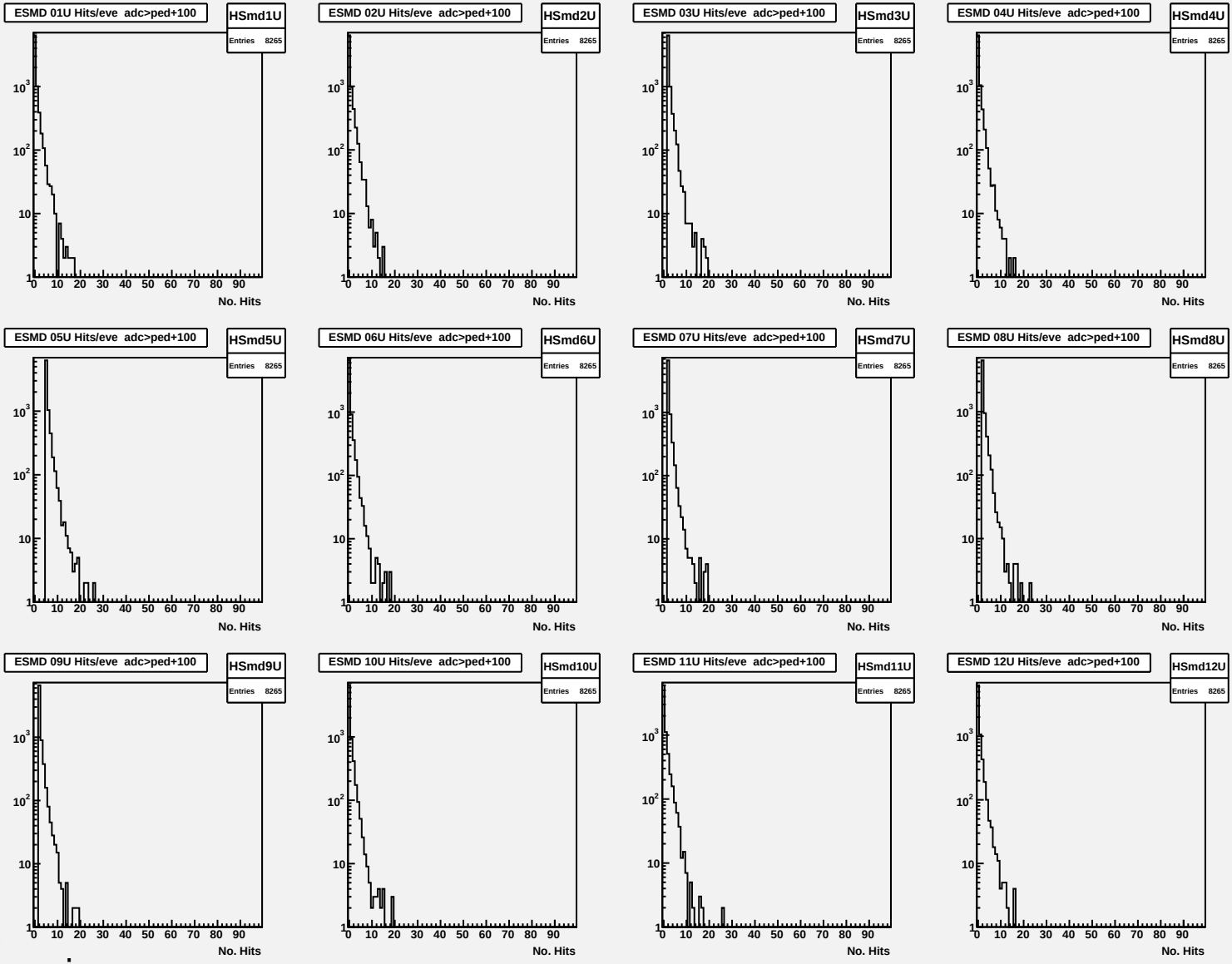

EEMC post hits>ped+50
PostHits
Entries 64728
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

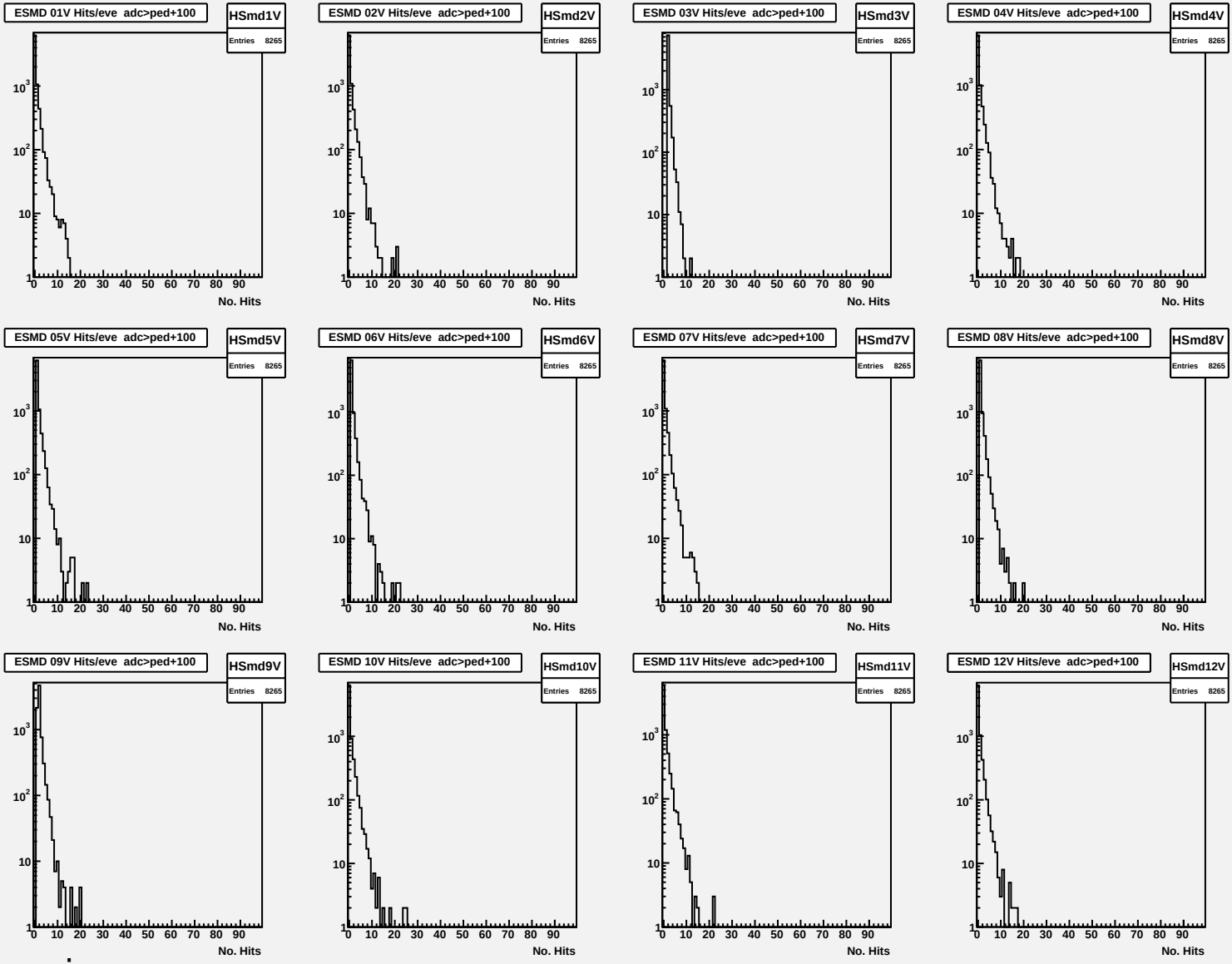

MAPMT Hits adc>ped+thr
MAPMHits
Entries 354510
tube no.
Crate ID
12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
65 70 75 80 85 90 95 100 105 110

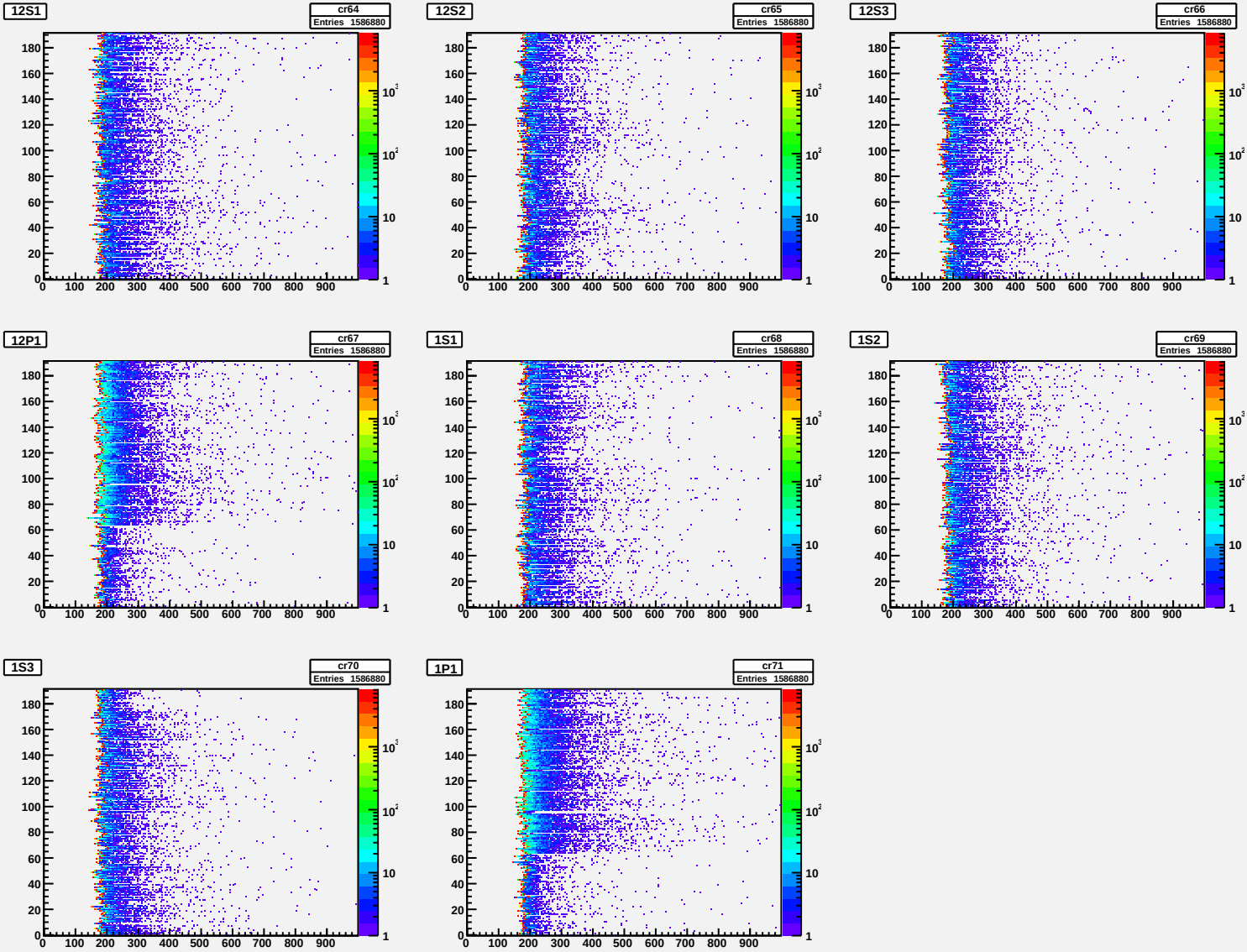

MAPMT Hits adc>ped+thr
MAPMHits2
Entries 354510
tube no.
Crate ID
6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
90 95 100 105 110

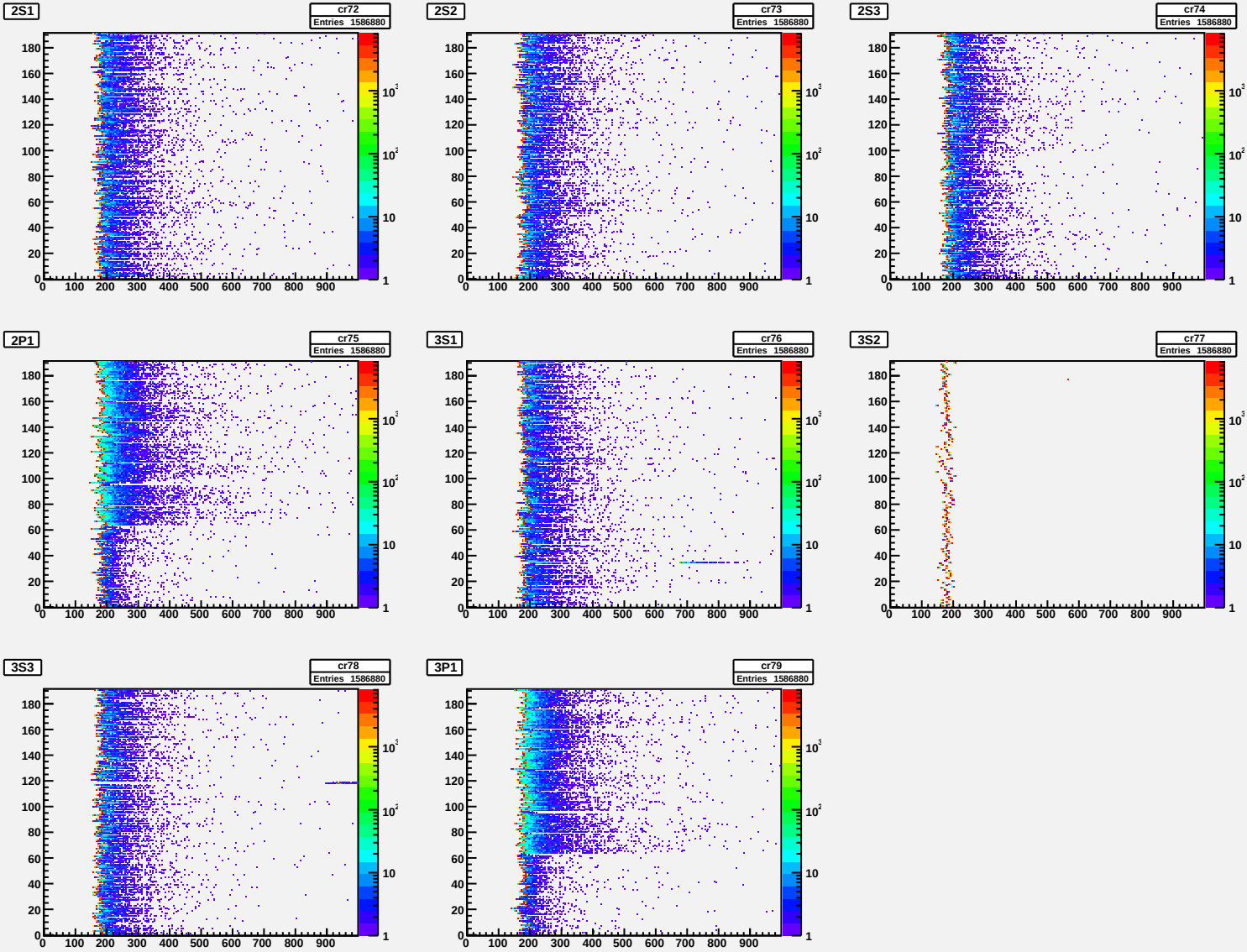

ESMD 01U adc>ped+100
SmdA1U
Entries 4000
ESMD 02U adc>ped+100
SmdA2U
Entries 4257
ESMD 03U adc>ped+100
SmdA3U
Entries 20405
ESMD 04U adc>ped+100
SmdA4U
Entries 4007
ESMD 05U adc>ped+100
SmdA5U
Entries 45647
ESMD 06U adc>ped+100
SmdA6U
Entries 3566
ESMD 07U adc>ped+100
SmdA7U
Entries 19696
ESMD 08U adc>ped+100
SmdA8U
Entries 20469
ESMD 09U adc>ped+100
SmdA9U
Entries 19892
ESMD 10U adc>ped+100
SmdA10U
Entries 3655
ESMD 11U adc>ped+100
SmdA11U
Entries 5167
ESMD 12U adc>ped+100
SmdA12U
Entries 4004
Strip no.

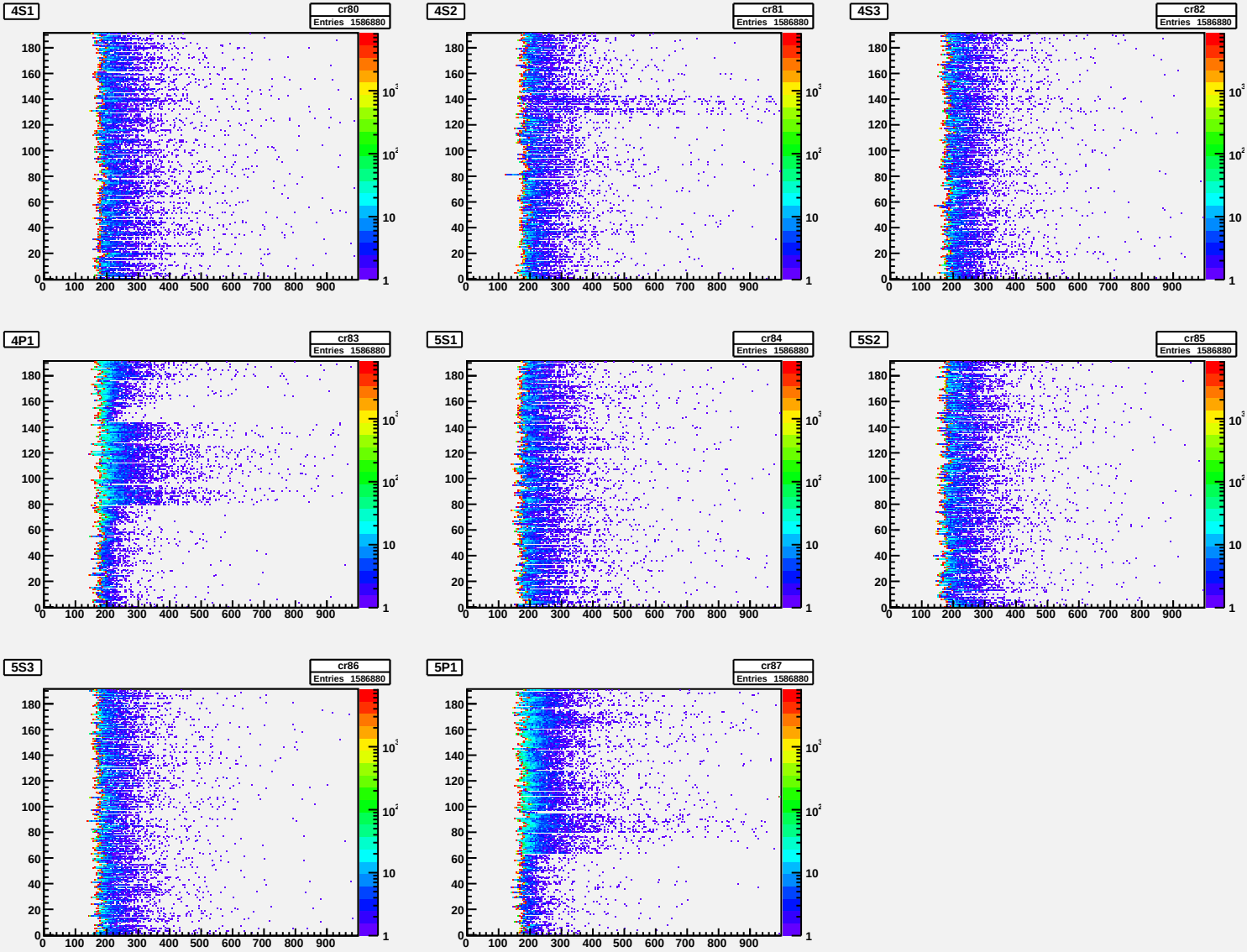

ESMD 01V adc>ped+100
SmdA1V
Entries 4436
ESMD 02V adc>ped+100
SmdA2V
Entries 4499
ESMD 03V adc>ped+100
SmdA3V
Entries 17861
ESMD 04V adc>ped+100
SmdA4V
Entries 4674
ESMD 05V adc>ped+100
SmdA5V
Entries 12817
ESMD 06V adc>ped+100
SmdA6V
Entries 12060
ESMD 07V adc>ped+100
SmdA7V
Entries 4334
ESMD 08V adc>ped+100
SmdA8V
Entries 11960
ESMD 09V adc>ped+100
SmdA9V
Entries 17323
ESMD 10V adc>ped+100
SmdA10V
Entries 4483
ESMD 11V adc>ped+100
SmdA11V
Entries 5371
ESMD 12V adc>ped+100
SmdA12V
Entries 4076
Strip no.

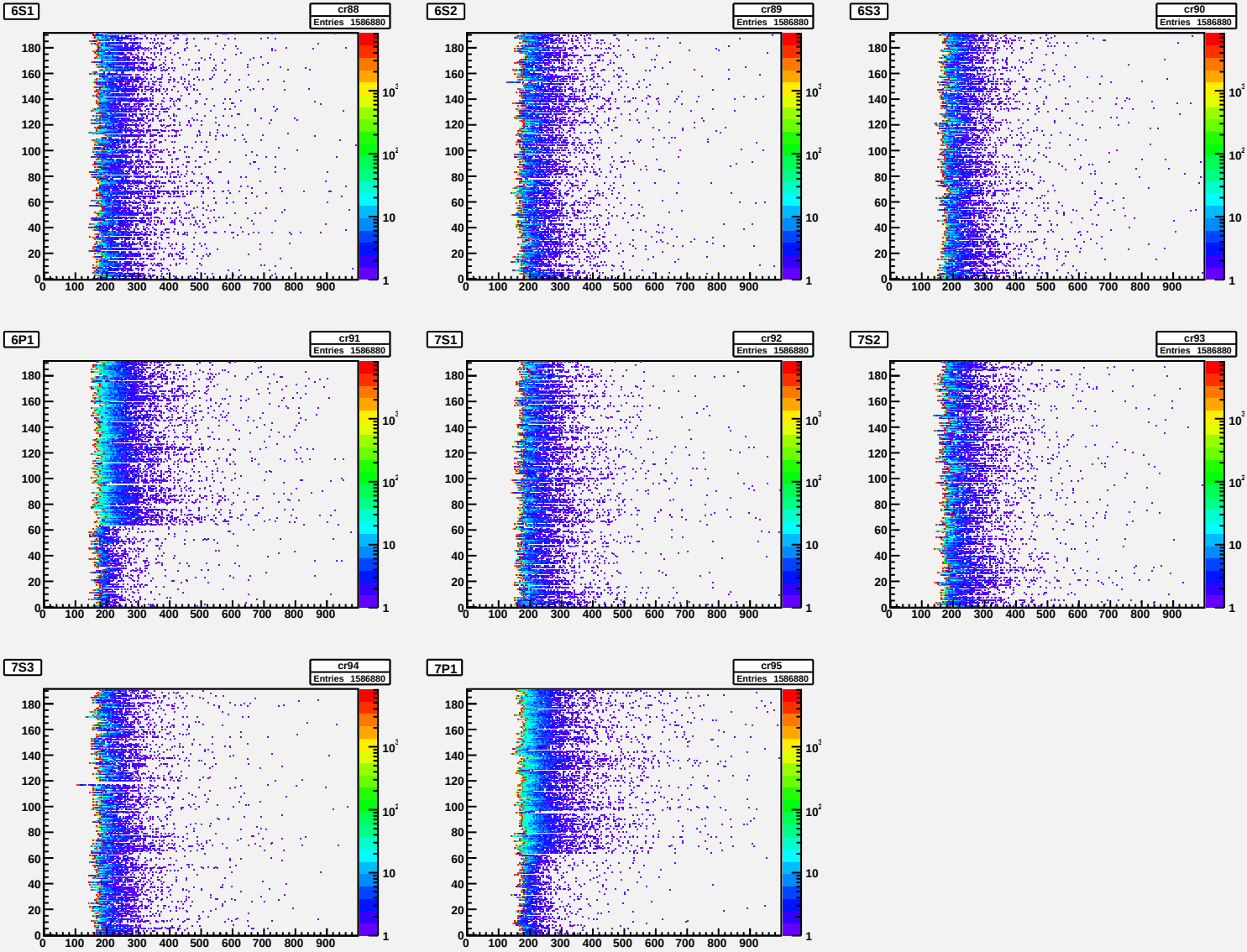

ESMD 01U Hits/eve adc>ped+100
HSmd1U
Entries 8265
ESMD 02U Hits/eve adc>ped+100
HSmd2U
Entries 8265
ESMD 03U Hits/eve adc>ped+100
HSmd3U
Entries 8265
ESMD 04U Hits/eve adc>ped+100
HSmd4U
Entries 8265
ESMD 05U Hits/eve adc>ped+100
HSmd5U
Entries 8265
ESMD 06U Hits/eve adc>ped+100
HSmd6U
Entries 8265
ESMD 07U Hits/eve adc>ped+100
HSmd7U
Entries 8265
ESMD 08U Hits/eve adc>ped+100
HSmd8U
Entries 8265
ESMD 09U Hits/eve adc>ped+100
HSmd9U
Entries 8265
ESMD 10U Hits/eve adc>ped+100
HSmd10U
Entries 8265
ESMD 11U Hits/eve adc>ped+100
HSmd11U
Entries 8265
ESMD 12U Hits/eve adc>ped+100
HSmd12U
Entries 8265
No. Hits

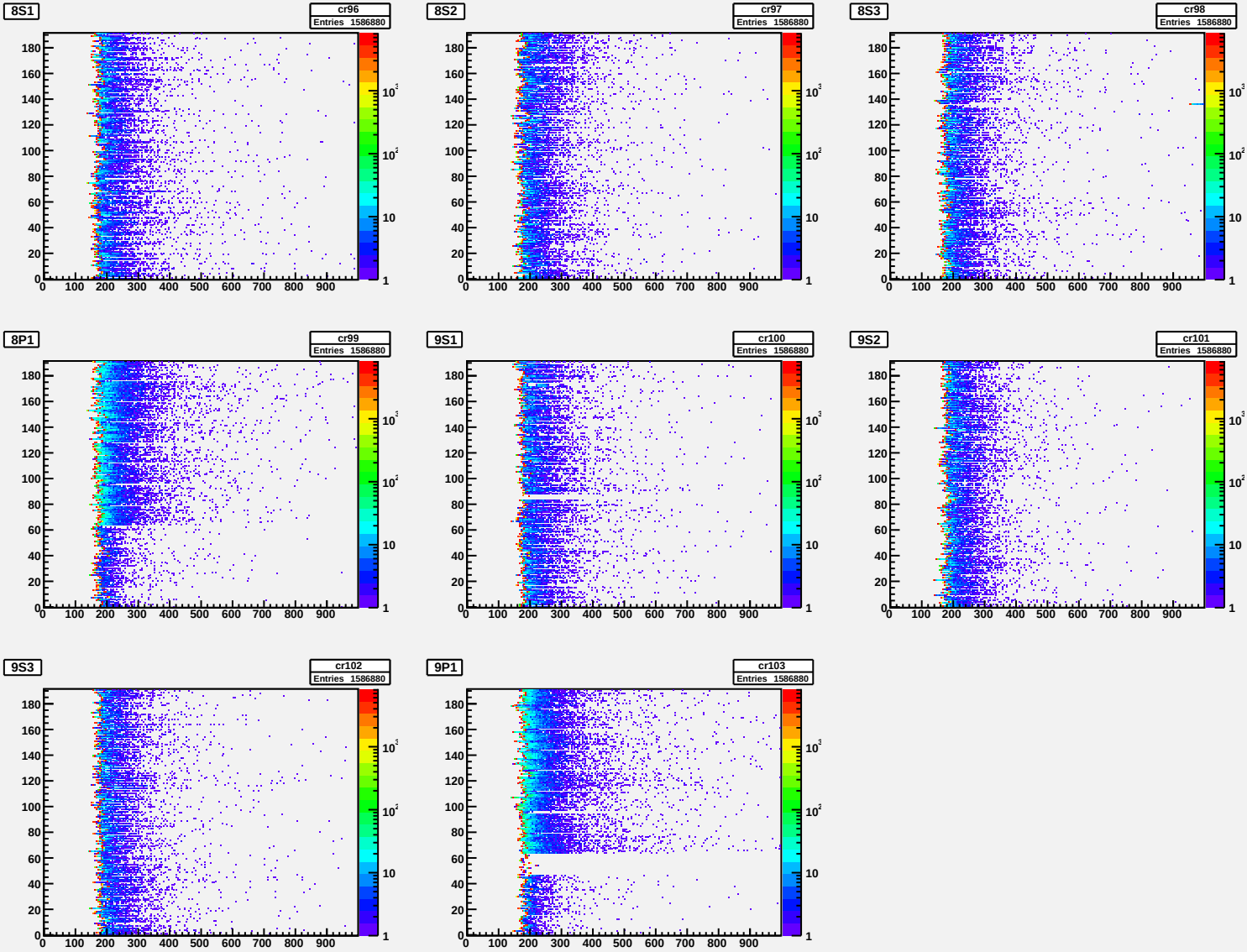

ESMD 01V Hits/eve adc>ped+100
HSmd1V
Entries 8265
ESMD 02V Hits/eve adc>ped+100
HSmd2V
Entries 8265
ESMD 03V Hits/eve adc>ped+100
HSmd3V
Entries 8265
ESMD 04V Hits/eve adc>ped+100
HSmd4V
Entries 8265
ESMD 05V Hits/eve adc>ped+100
HSmd5V
Entries 8265
ESMD 06V Hits/eve adc>ped+100
HSmd6V
Entries 8265
ESMD 07V Hits/eve adc>ped+100
HSmd7V
Entries 8265
ESMD 08V Hits/eve adc>ped+100
HSmd8V
Entries 8265
ESMD 09V Hits/eve adc>ped+100
HSmd9V
Entries 8265
ESMD 10V Hits/eve adc>ped+100
HSmd10V
Entries 8265
ESMD 11V Hits/eve adc>ped+100
HSmd11V
Entries 8265
ESMD 12V Hits/eve adc>ped+100
HSmd12V
Entries 8265
No. Hits

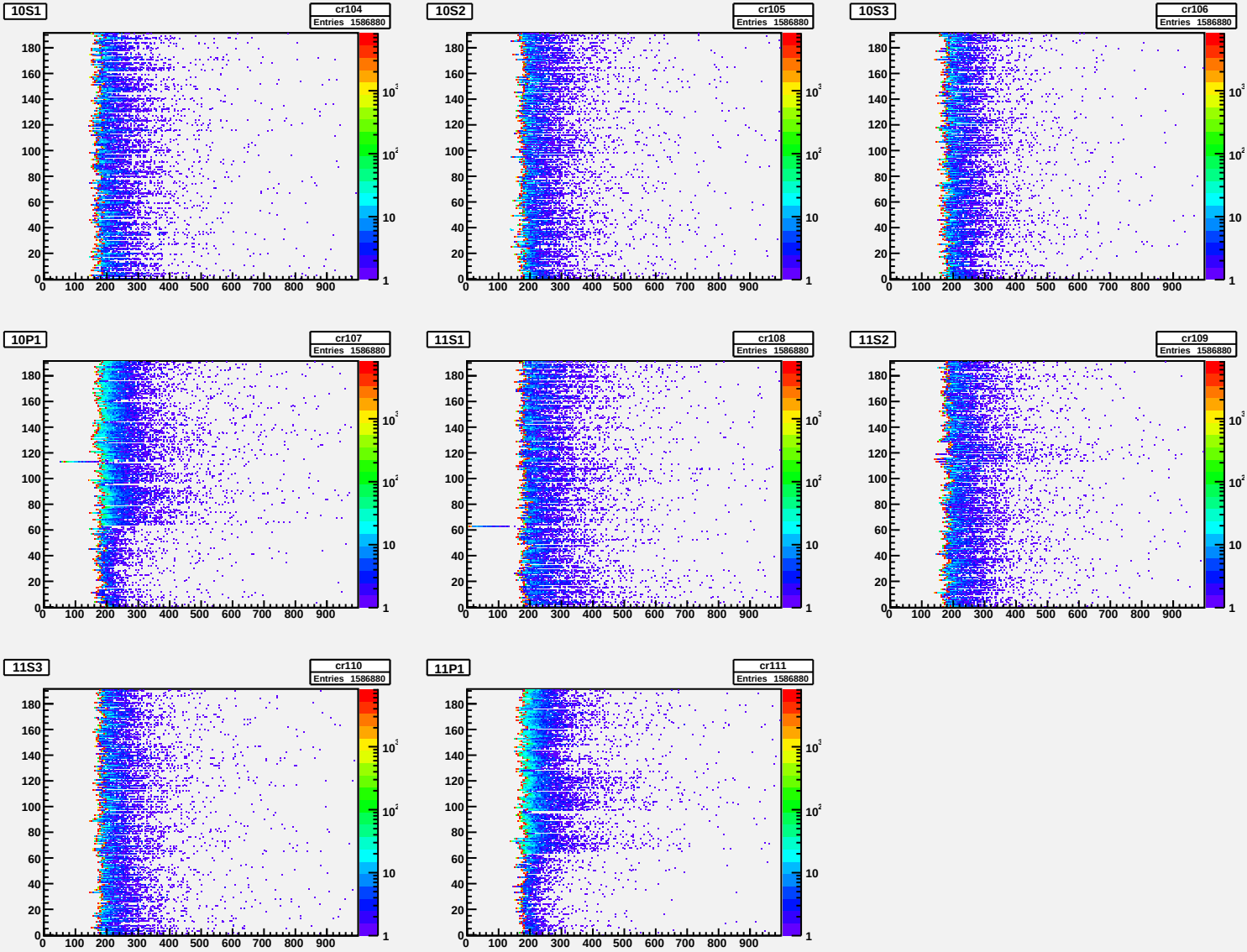

12S1
cr64
Entries 1586880
12S2
cr65
Entries 1586880
12S3
cr66
Entries 1586880
12P1
cr67
Entries 1586880
1S1
cr68
Entries 1586880
1S2
cr69
Entries 1586880
1S3
cr70
Entries 1586880
1P1
cr71
Entries 1586880


2S1
cr72
Entries 1586880
2S2
cr73
Entries 1586880
2S3
cr74
Entries 1586880
2P1
cr75
Entries 1586880
3S1
cr76
Entries 1586880
3S2
cr77
Entries 1586880
3S3
cr78
Entries 1586880
3P1
cr79
Entries 1586880

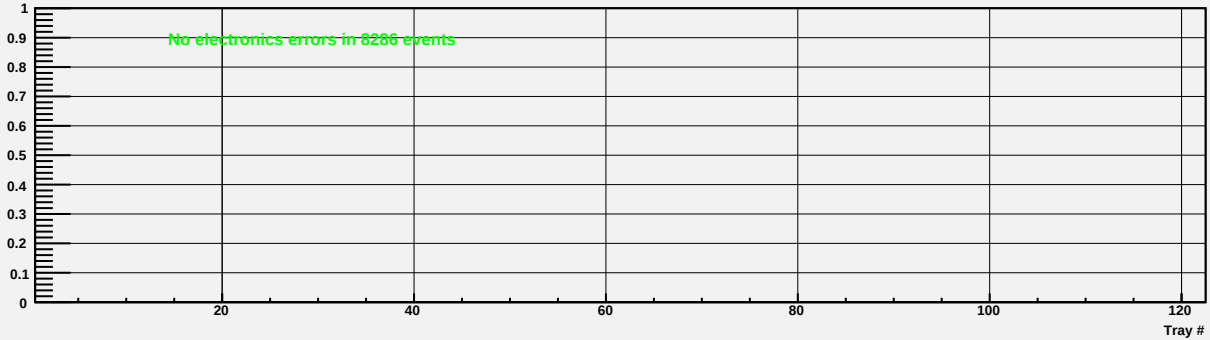

4S1
cr80
Entries 1586880
4S2
cr81
Entries 1586880
4S3
cr82
Entries 1586880
4P1
cr83
Entries 1586880
5S1
cr84
Entries 1586880
5S2
cr85
Entries 1586880
5S3
cr86
Entries 1586880
5P1
cr87
Entries 1586880


6S1
cr88
Entries 1586880
6S2
cr89
Entries 1586880
6S3
cr90
Entries 1586880
6P1
cr91
Entries 1586880
7S1
cr92
Entries 1586880
7S2
cr93
Entries 1586880
7S3
cr94
Entries 1586880
7P1
cr95
Entries 1586880

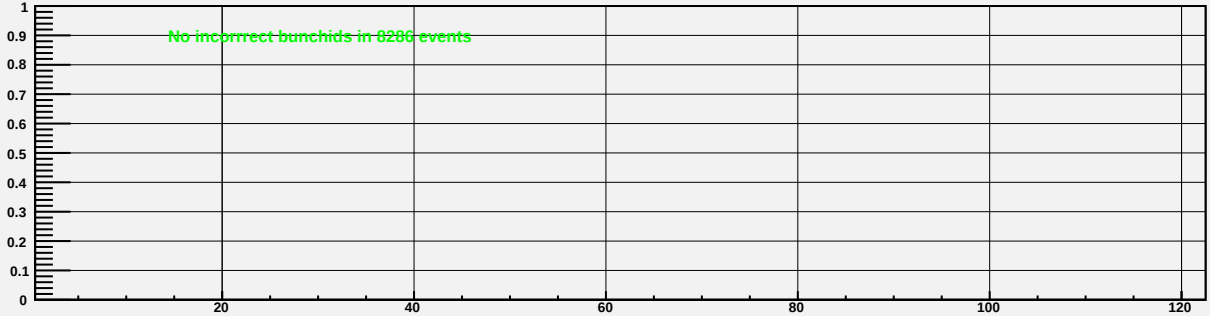

8S1
cr96
Entries 1586880
8S2
cr97
Entries 1586880
8S3
cr98
Entries 1586880
8P1
cr99
Entries 1586880
9S1
cr100
Entries 1586880
9S2
cr101
Entries 1586880
9S3
cr102
Entries 1586880
9P1
cr103
Entries 1586880


10S1
cr104
Entries 1586880
10S2
cr105
Entries 1586880
10S3
cr106
Entries 1586880
10P1
cr107
Entries 1586880
11S1
cr108
Entries 1586880
11S2
cr109
Entries 1586880
11S3
cr110
Entries 1586880
11P1
cr111
Entries 1586880

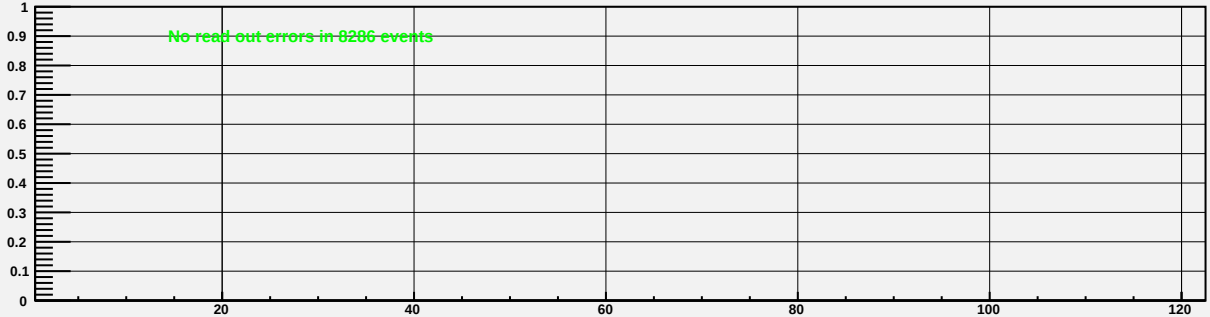
TOF electronics errors

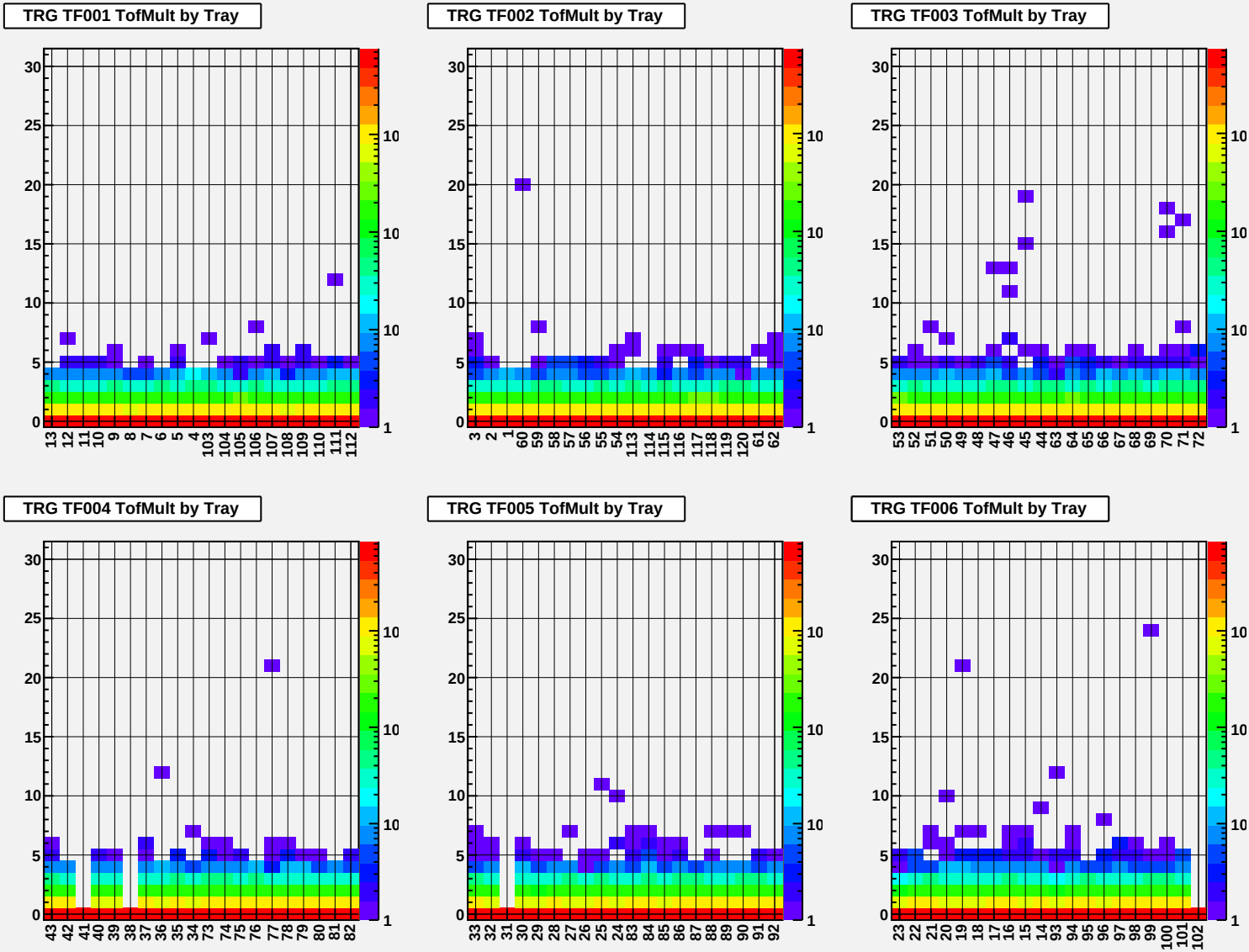


TOF incorrect bunchid errors

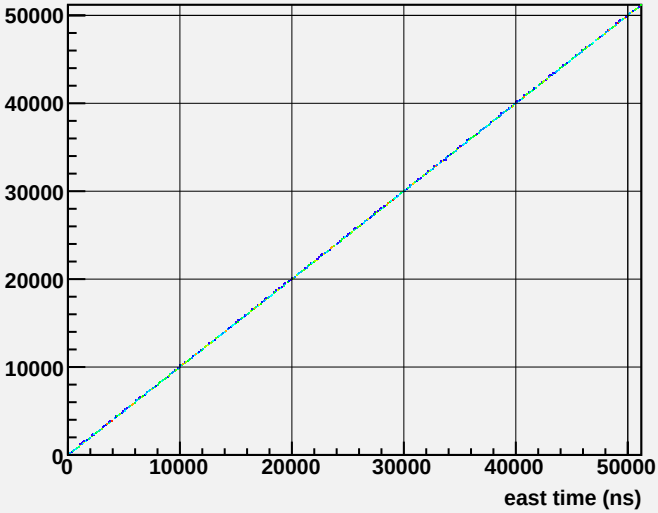


TOF trays not read out (bunchid not found)

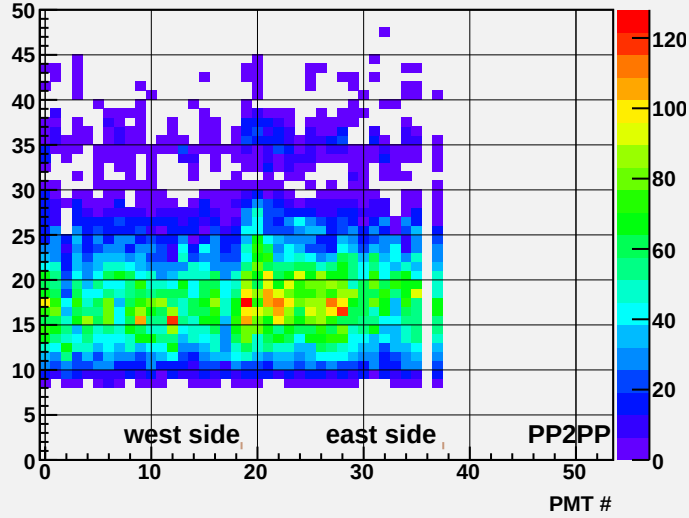



TRG TF001 TofMult by Tray
TRG TF002 TofMult by Tray
TRG TF003 TofMult by Tray
TRG TF004 TofMult by Tray
TRG TF005 TofMult by Tray
TRG TF006 TofMult by Tray

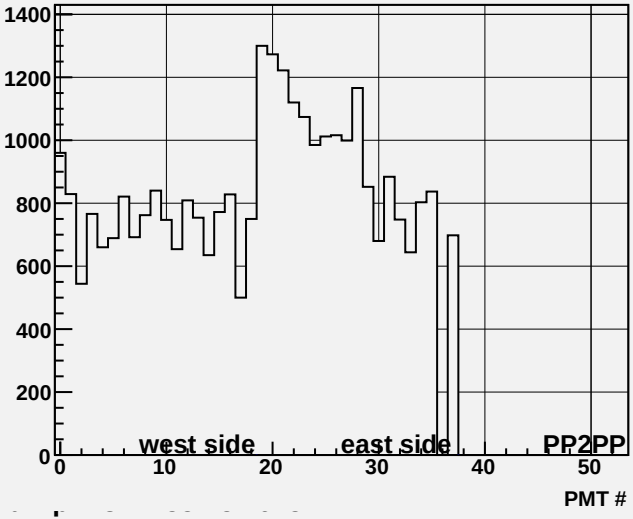
upvpd eastT vs westT



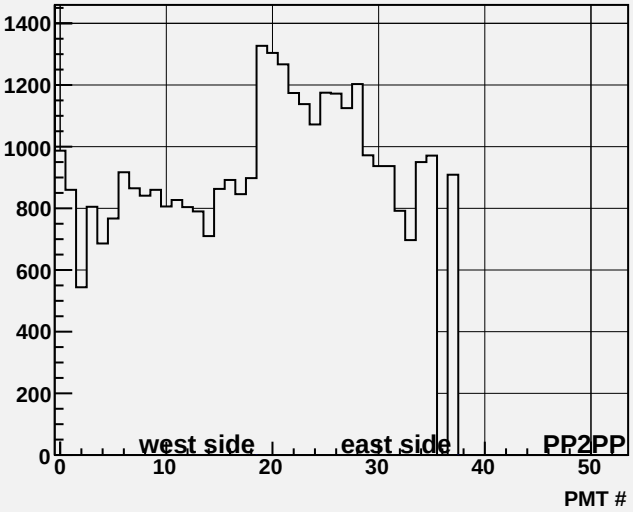
upvpd ToT vs PMT#

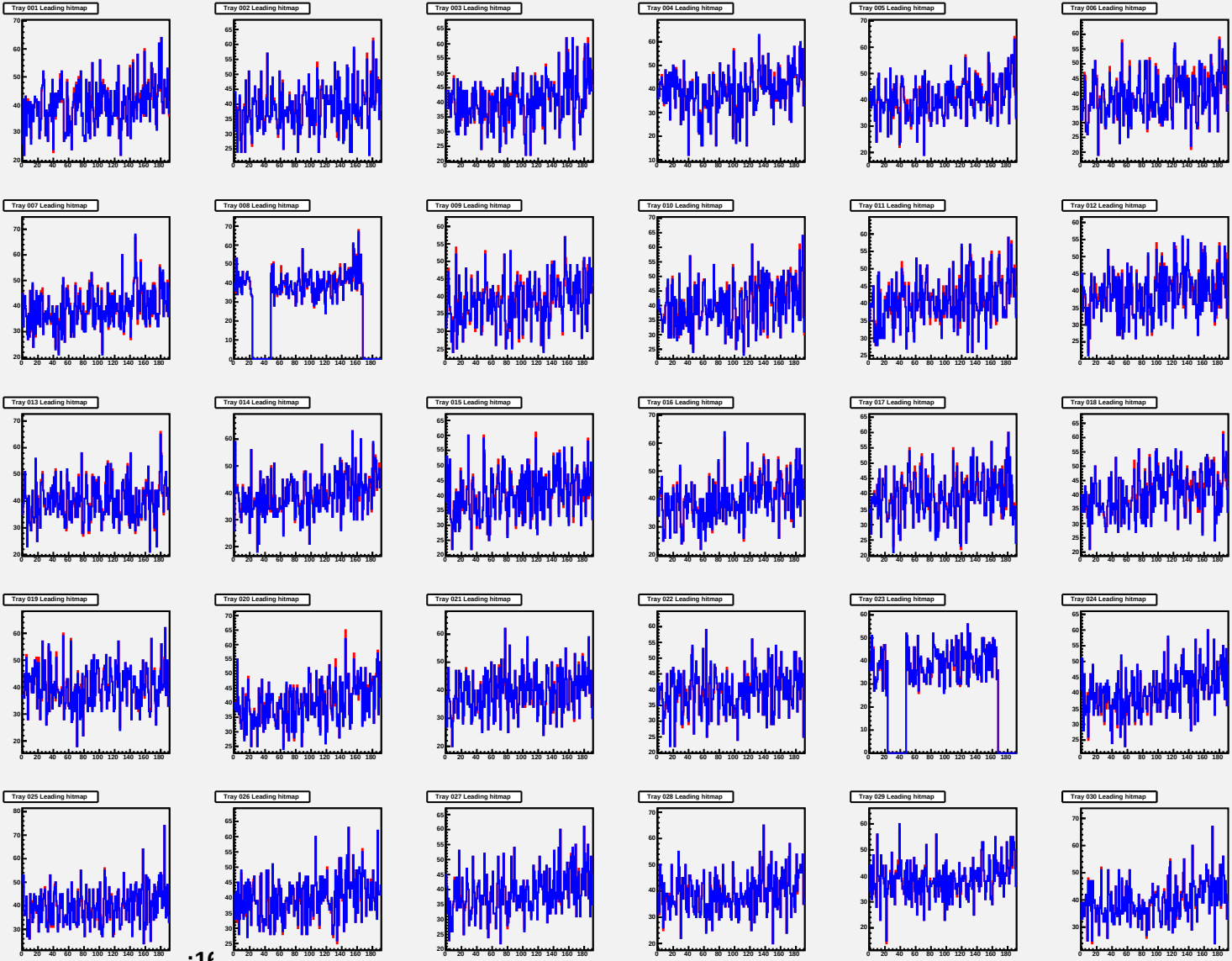


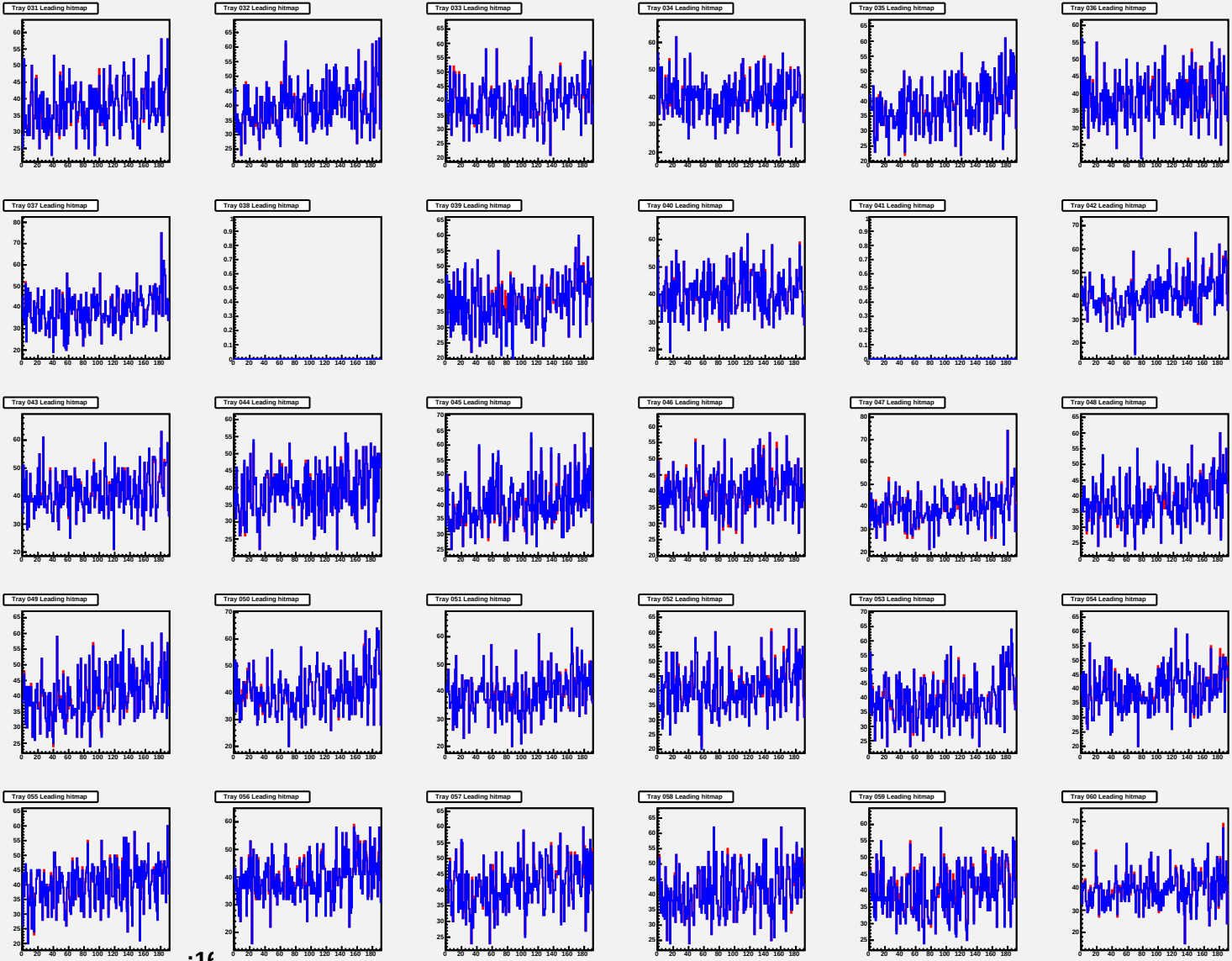
upvpd Trailing edge hitmap

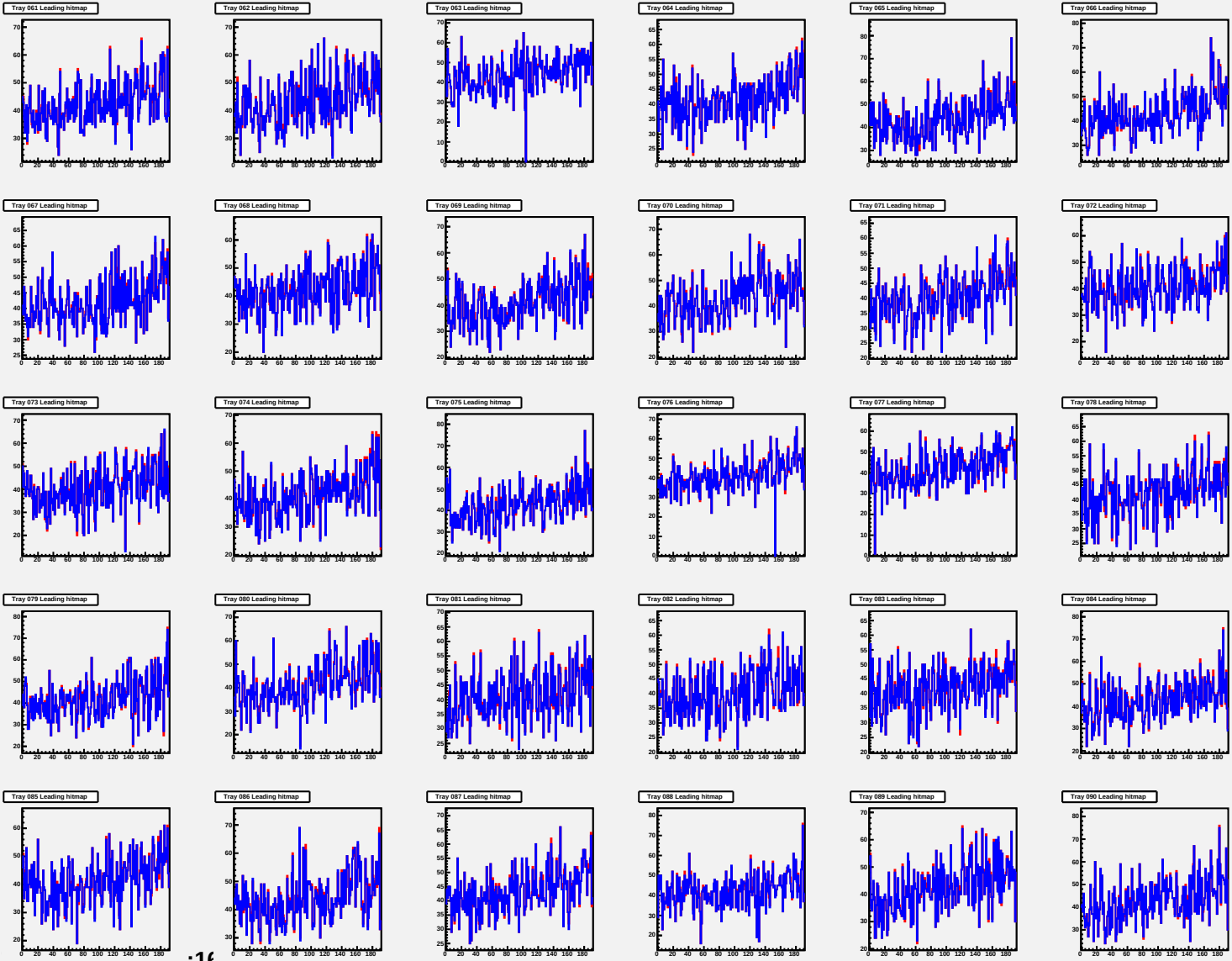


upvpd Leading edge hitmap




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


Tray 031 Leading hitmap
Tray 032 Leading hitmap
Tray 033 Leading hitmap
Tray 034 Leading hitmap
Tray 035 Leading hitmap
Tray 036 Leading hitmap
Tray 037 Leading hitmap
Tray 038 Leading hitmap
Tray 039 Leading hitmap
Tray 040 Leading hitmap
Tray 041 Leading hitmap
Tray 042 Leading hitmap
Tray 043 Leading hitmap
Tray 044 Leading hitmap
Tray 045 Leading hitmap
Tray 046 Leading hitmap
Tray 047 Leading hitmap
Tray 048 Leading hitmap
Tray 049 Leading hitmap
Tray 050 Leading hitmap
Tray 051 Leading hitmap
Tray 052 Leading hitmap
Tray 053 Leading hitmap
Tray 054 Leading hitmap
Tray 055 Leading hitmap
Tray 056 Leading hitmap
Tray 057 Leading hitmap
Tray 058 Leading hitmap
Tray 059 Leading hitmap
Tray 060 Leading hitmap


Tray 061 Leading hitmap
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Tray 066 Leading hitmap
Tray 067 Leading hitmap
Tray 068 Leading hitmap
Tray 069 Leading hitmap
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Tray 080 Leading hitmap
Tray 081 Leading hitmap
Tray 082 Leading hitmap
Tray 083 Leading hitmap
Tray 084 Leading hitmap
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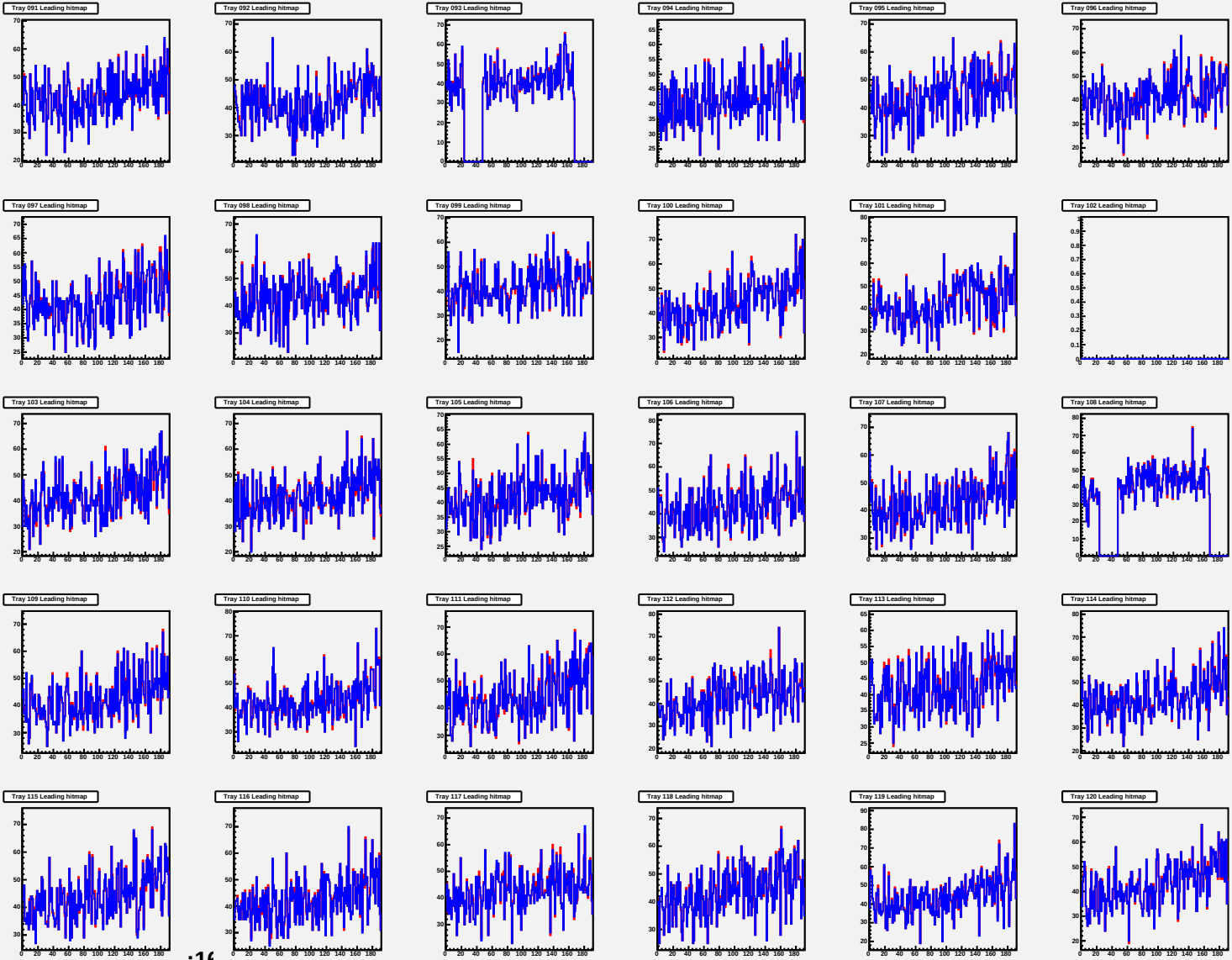
Tray 088 Leading hitmap
Tray 089 Leading hitmap
Tray 090 Leading hitmap


Tray 091 Leading hitmap
Tray 092 Leading hitmap
Tray 093 Leading hitmap
Tray 094 Leading hitmap
Tray 095 Leading hitmap
Tray 096 Leading hitmap
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Tray 098 Leading hitmap
Tray 099 Leading hitmap
Tray 100 Leading hitmap
Tray 101 Leading hitmap
Tray 102 Leading hitmap
Tray 103 Leading hitmap
Tray 104 Leading hitmap
Tray 105 Leading hitmap
Tray 106 Leading hitmap
Tray 107 Leading hitmap
Tray 108 Leading hitmap
Tray 109 Leading hitmap
Tray 110 Leading hitmap
Tray 111 Leading hitmap
Tray 112 Leading hitmap
Tray 113 Leading hitmap
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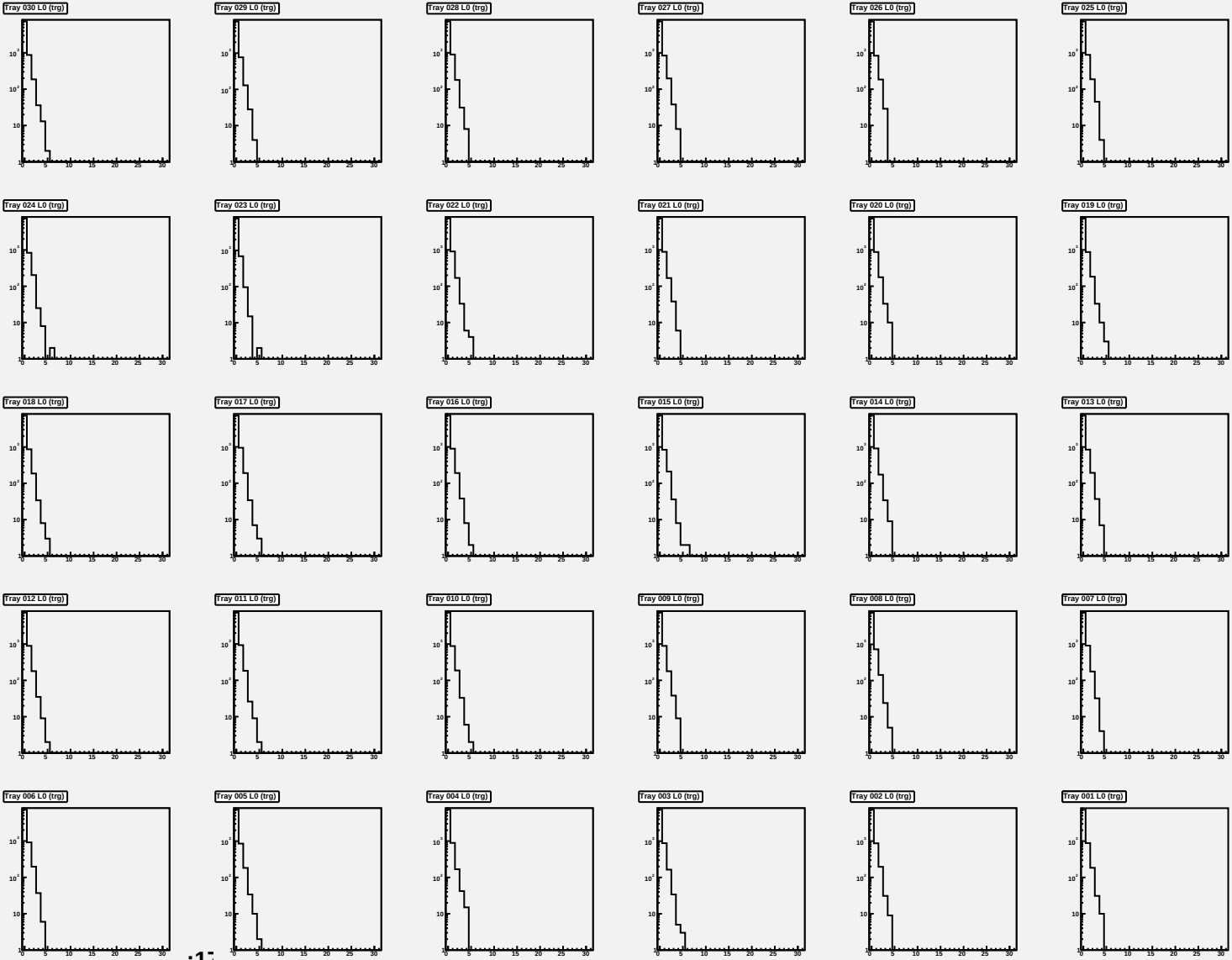
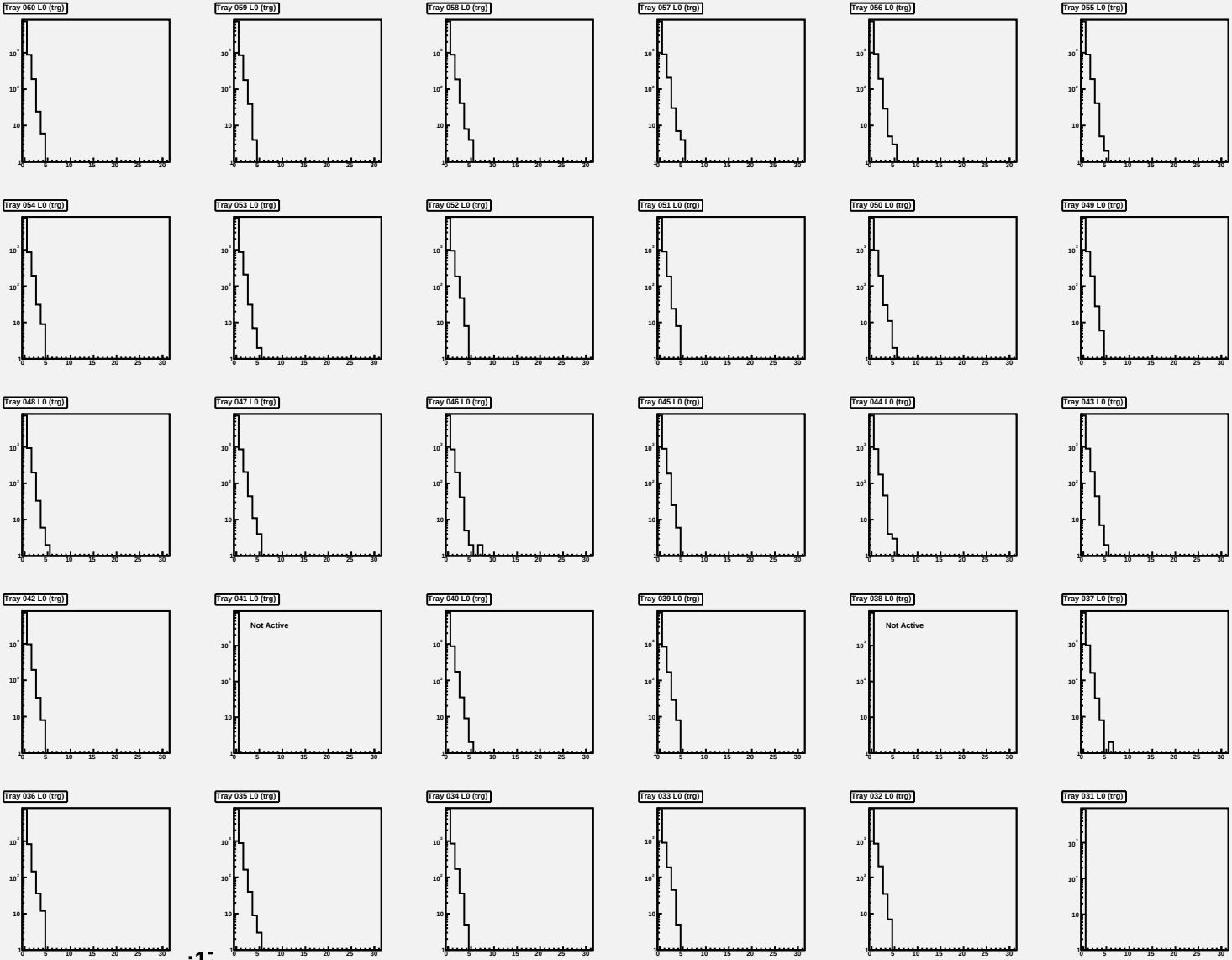
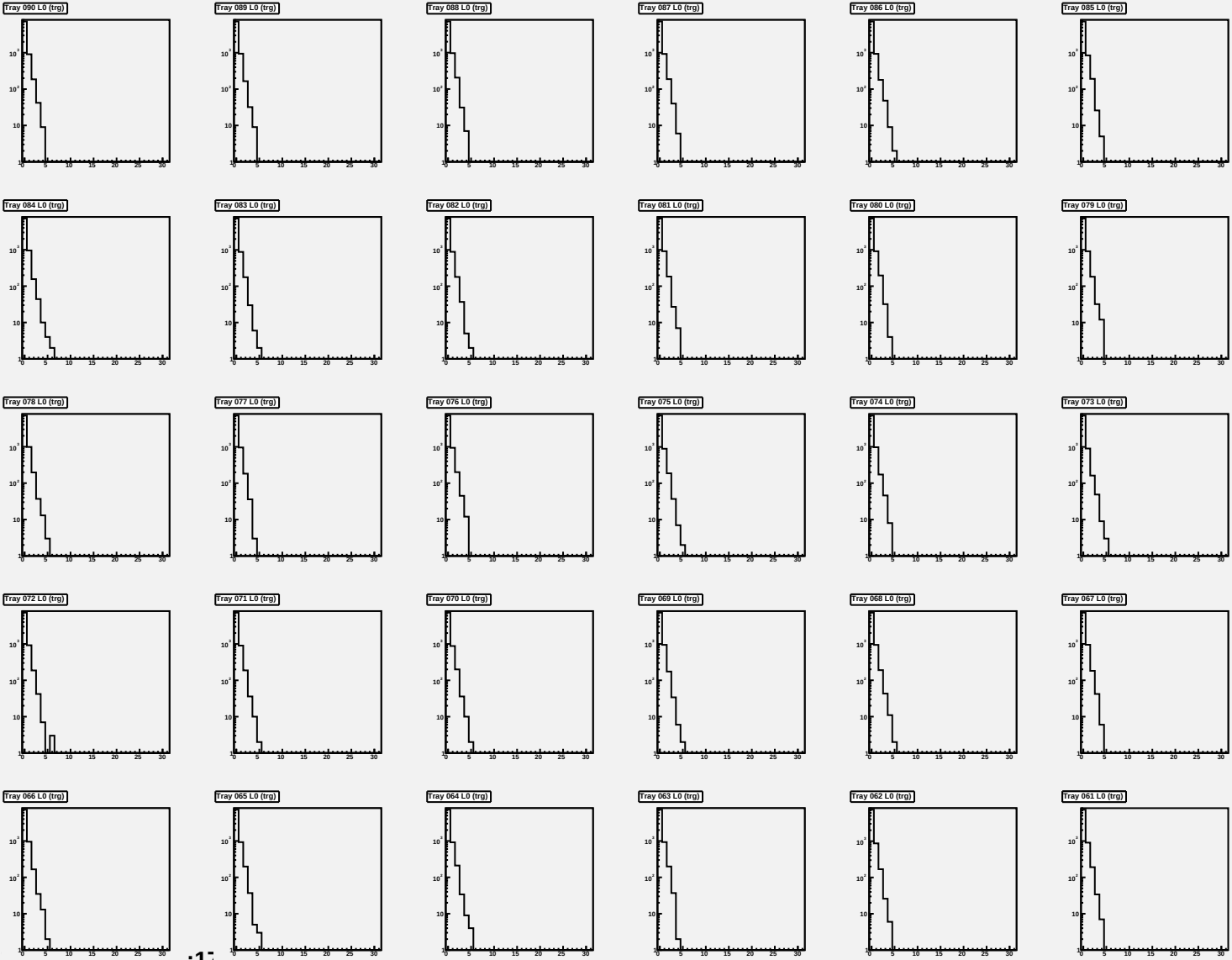
Tray 117 Leading hitmap
Tray 118 Leading hitmap
Tray 119 Leading hitmap
Tray 120 Leading hitmap


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)
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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)
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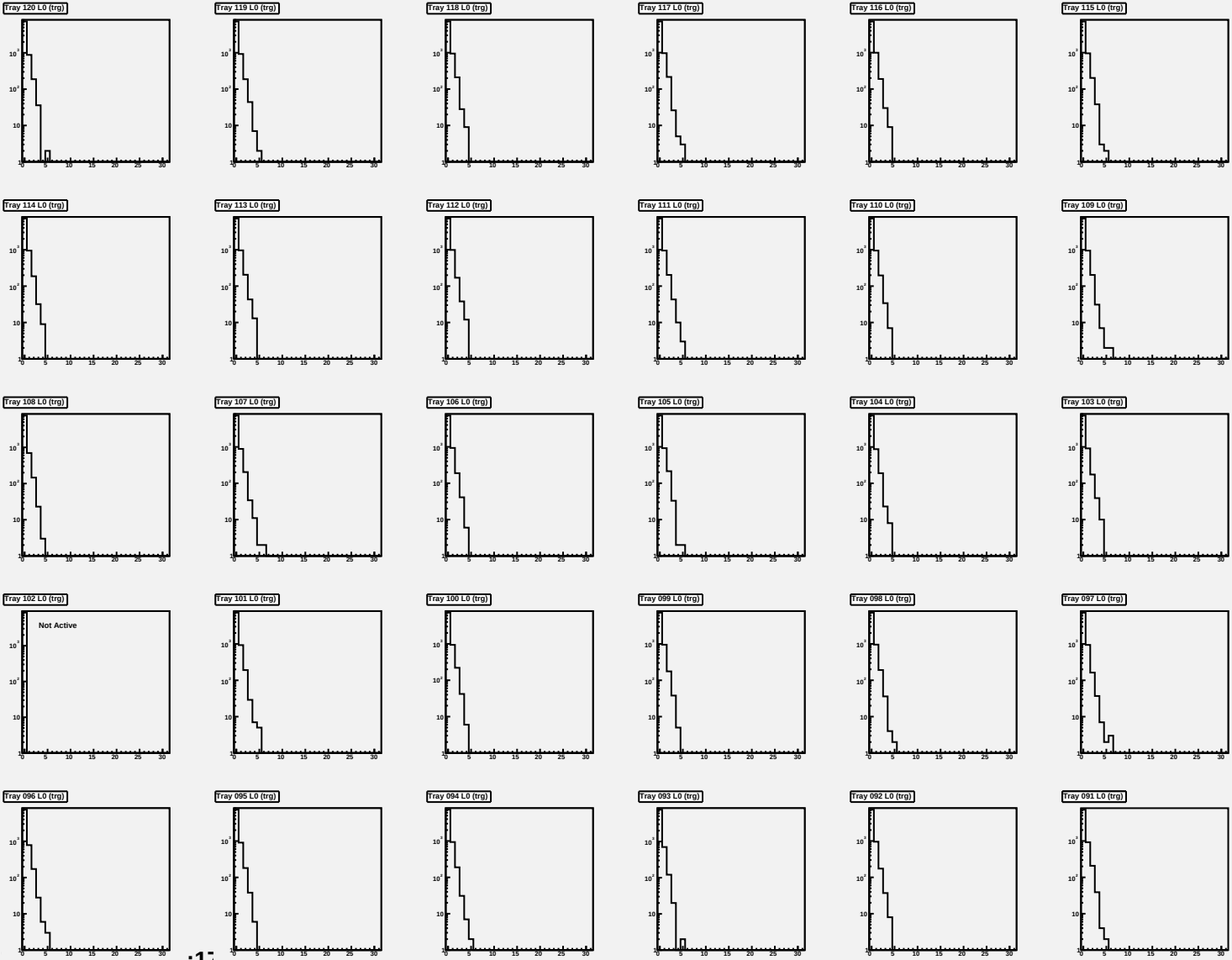
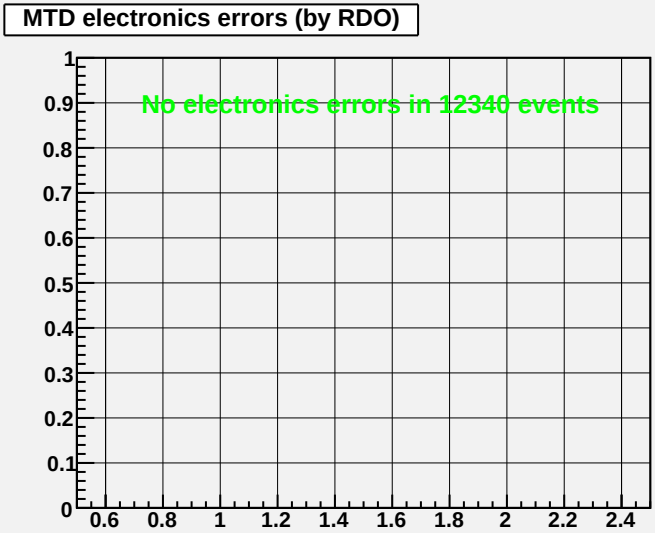
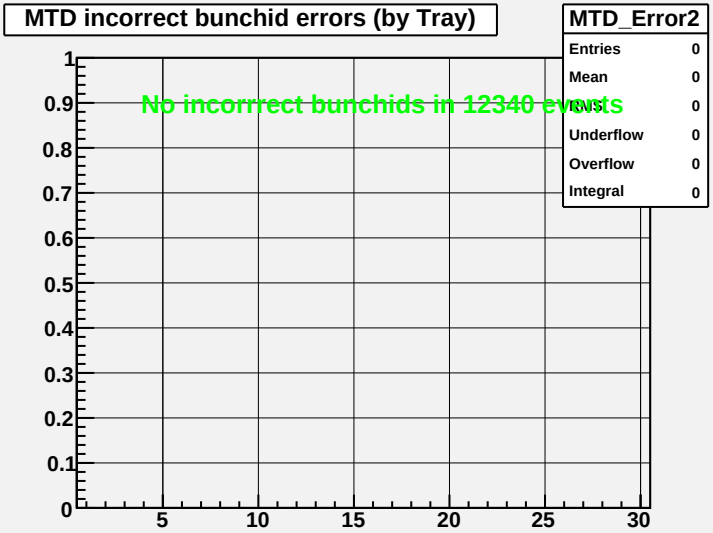
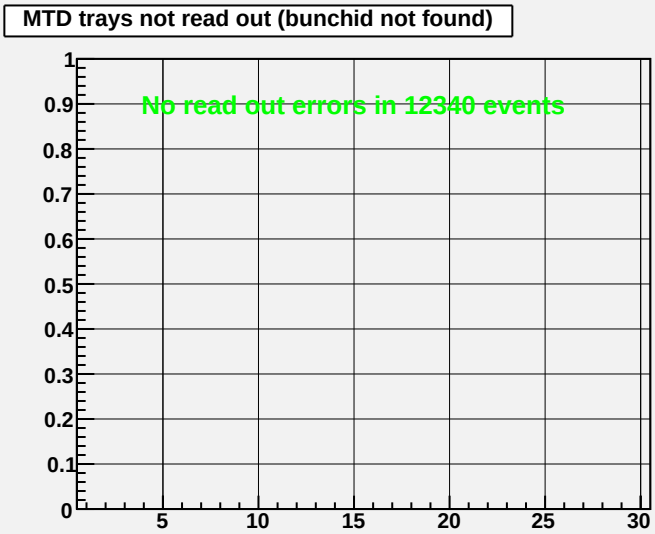
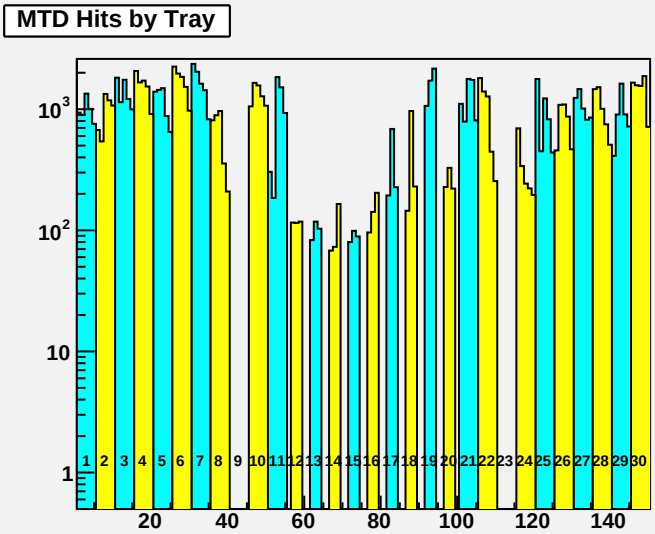
Tray 064 L0 (trg)
Tray 063 L0 (trg)
Tray 062 L0 (trg)
Tray 061 L0 (trg)


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)

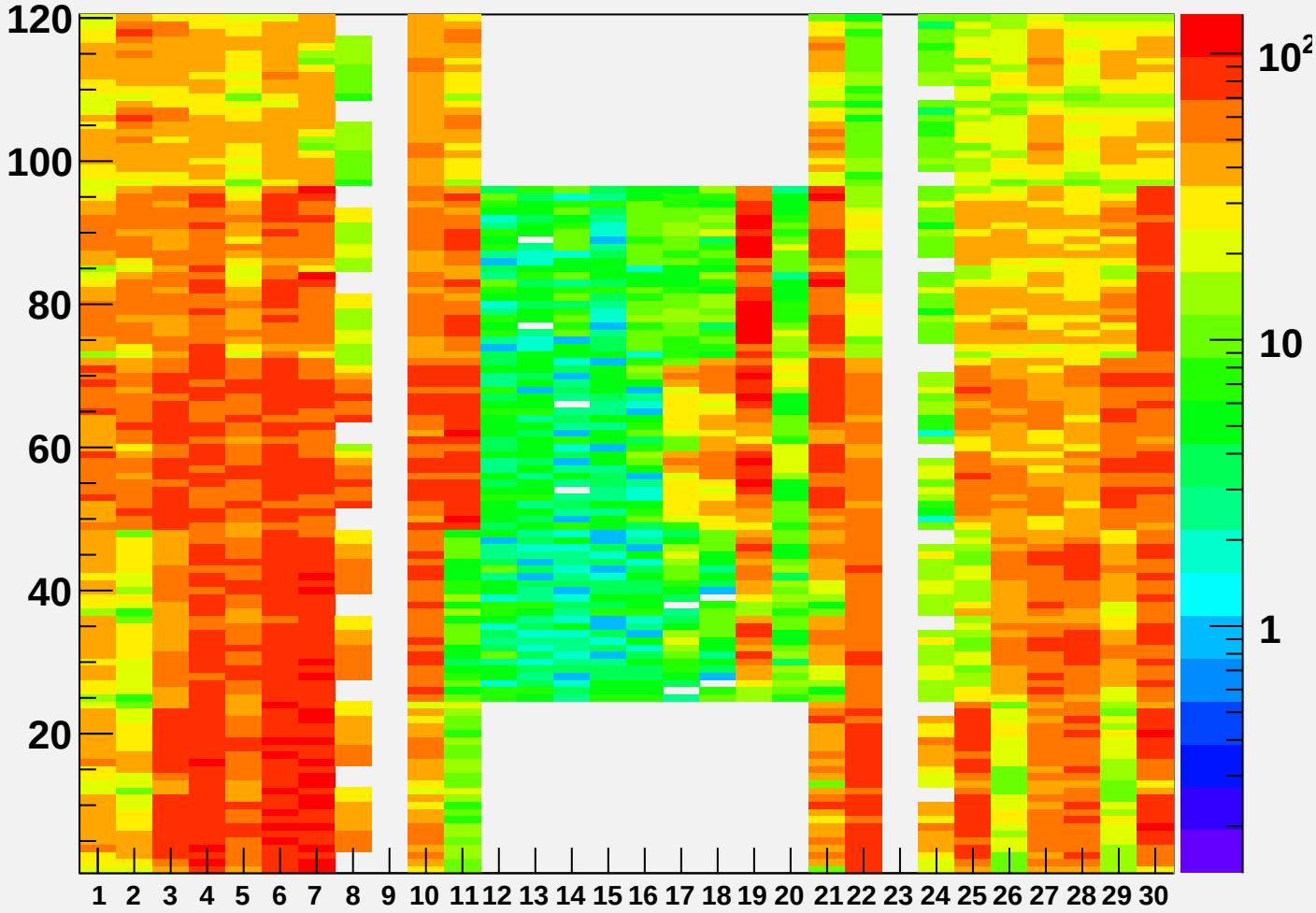

MTD electronics errors (by RDO)
No electronics errors in 12340 events


MTD incorrect bunchid errors (by Tray)
No incorrect bunchids in 12340 events
MTD_Error2
Entries 0
Mean 0
RMS 0
Underflow 0
Overflow 0
Integral 0

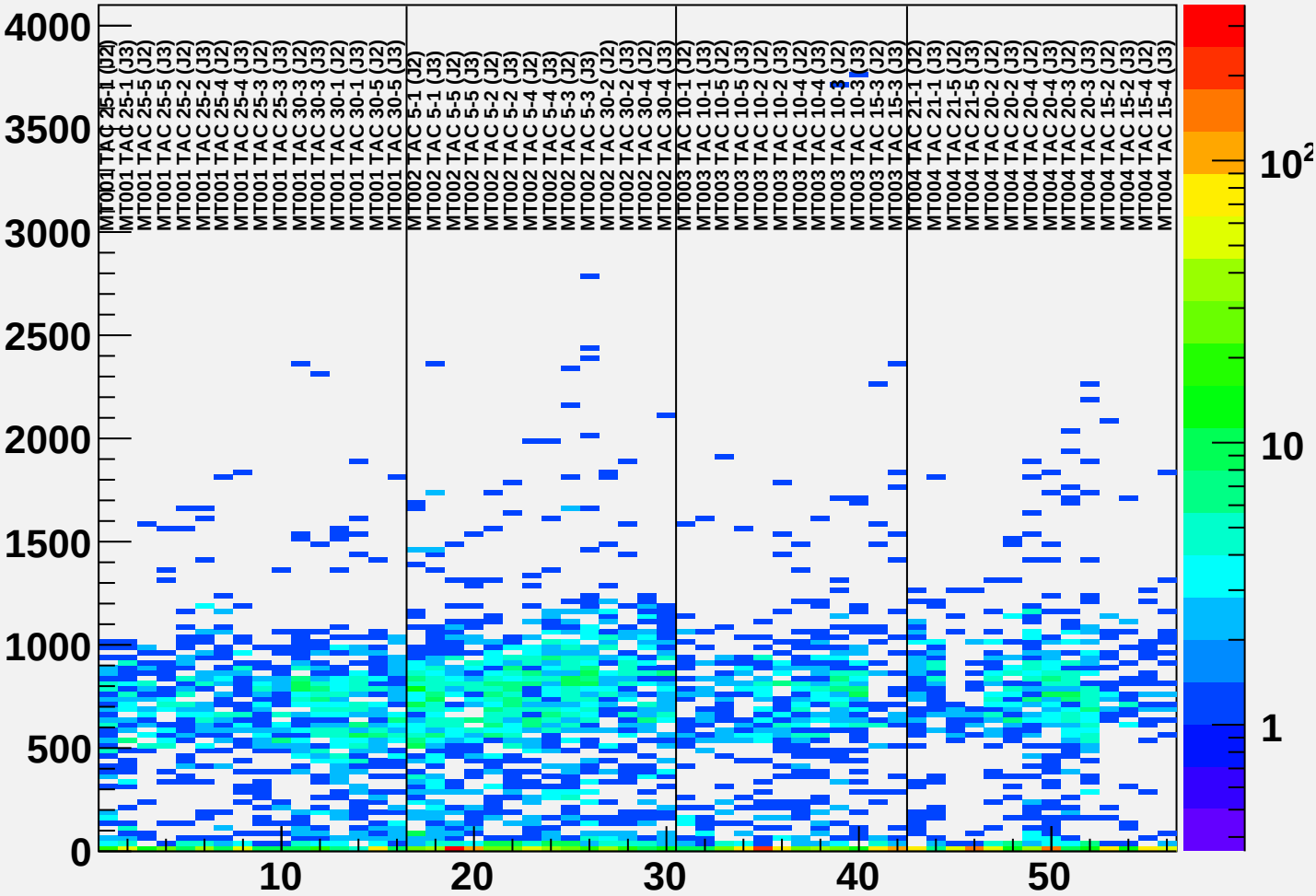

MTD trays not read out (bunchid not found)
No read out errors in 12340 events


MTD Hits by Tray

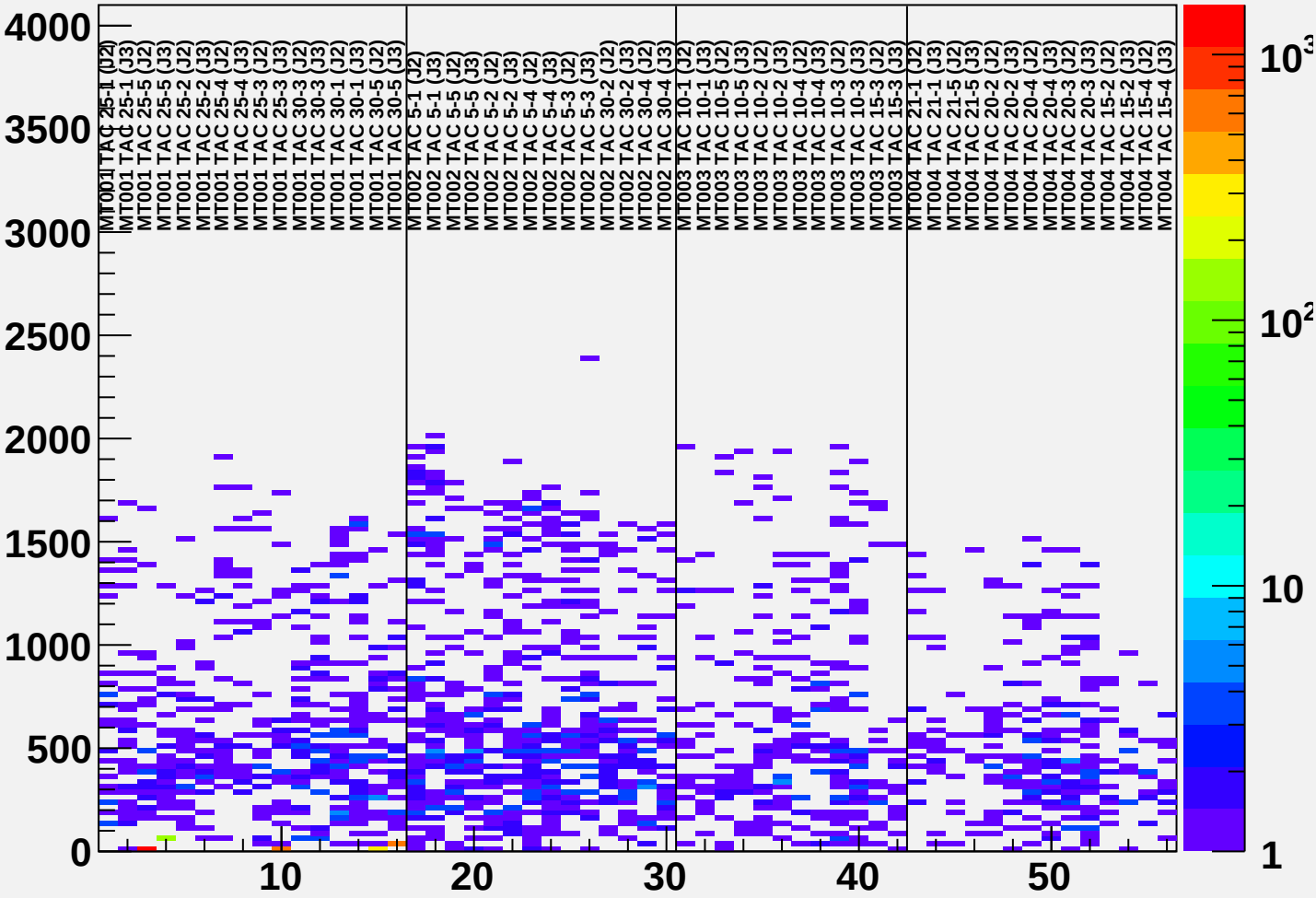
MTD strips vs BL

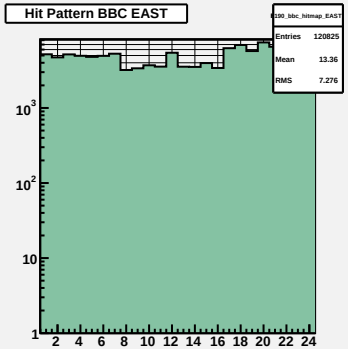


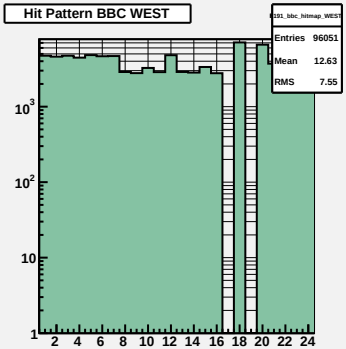
MTD_Trig2D_adc

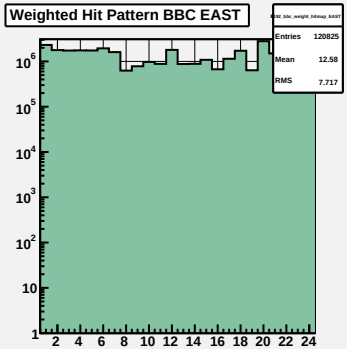


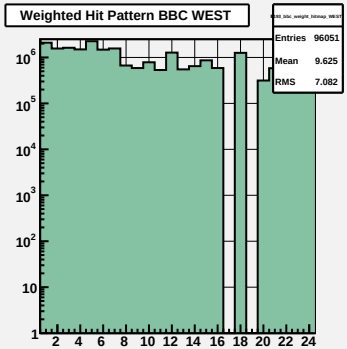
MTD_Trig2D_tac

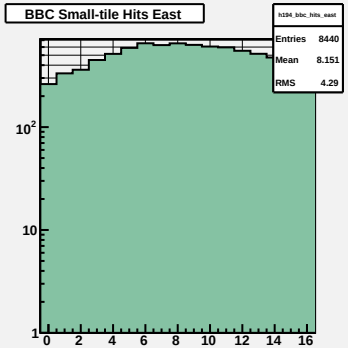


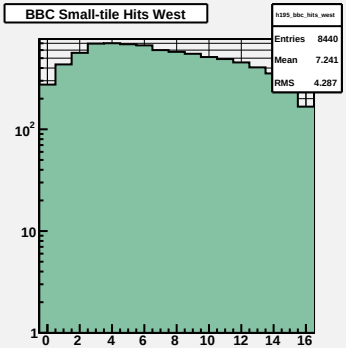

Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 120825
Mean 13.36
RMS 7.276

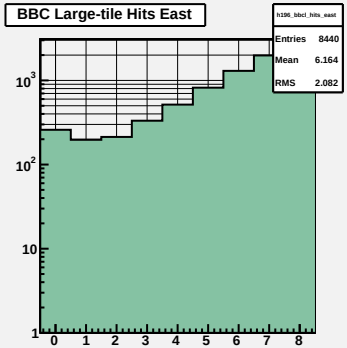

Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 96051
Mean 12.63
RMS 7.55

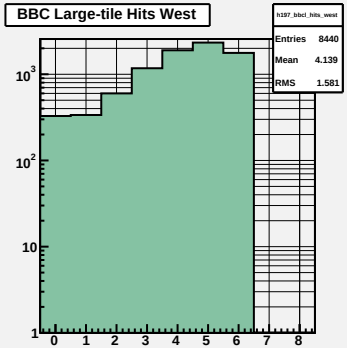

Weighted Hit Pattern BBC EAST
h192_bbc_weight_hitmap_EAST
Entries 120825
Mean 12.58
RMS 7.717

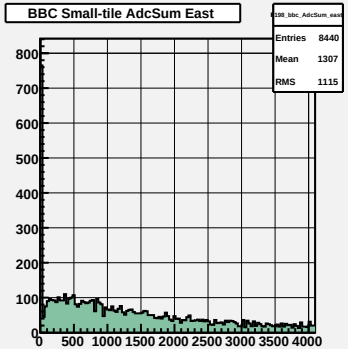

Weighted Hit Pattern BBC WEST
h193_bbc_weight_hitmap_WEST
Entries 96051
Mean 9.625
RMS 7.082

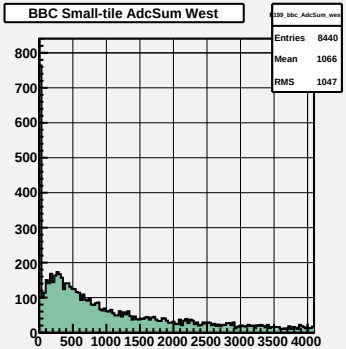

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 8440
Mean 8.151
RMS 4.29

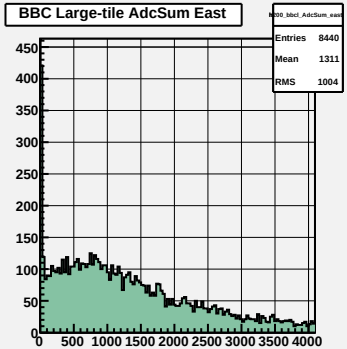

BBC Small-tile Hits West
h195_bbc_hits_west
Entries 8440
Mean 7.241
RMS 4.287

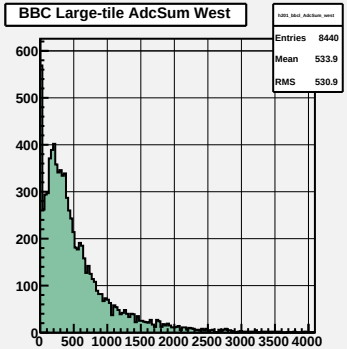

BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 8440
Mean 6.164
RMS 2.082

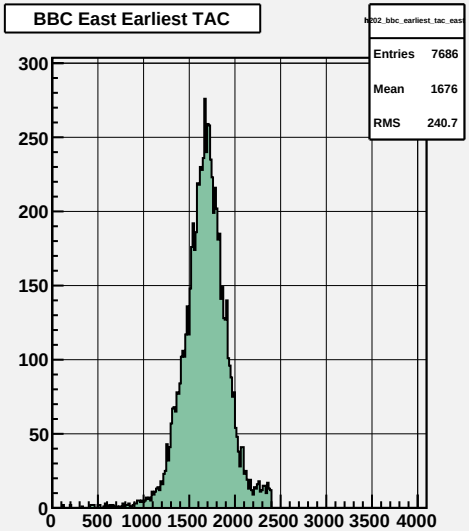

BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 8440
Mean 4.139
RMS 1.581

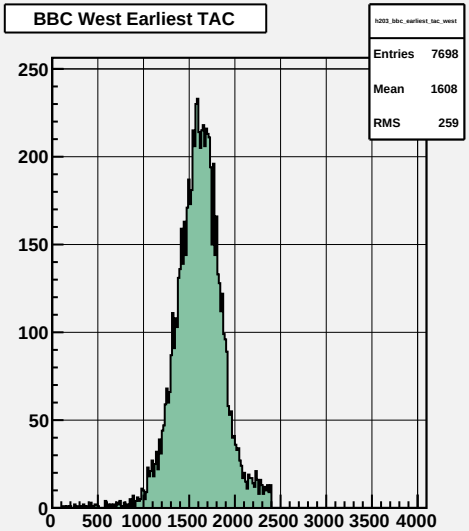

BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 8440
Mean 1307
RMS 1115

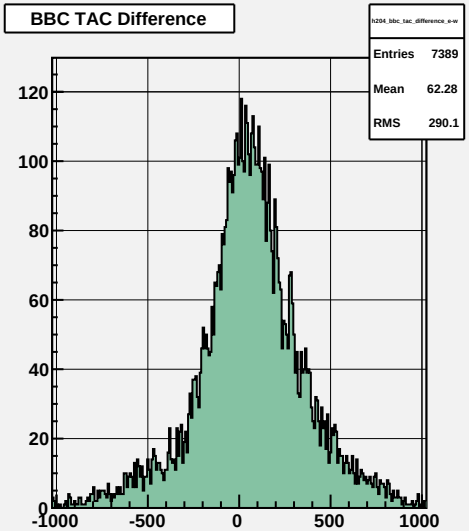

BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 8440
Mean 1066
RMS 1047

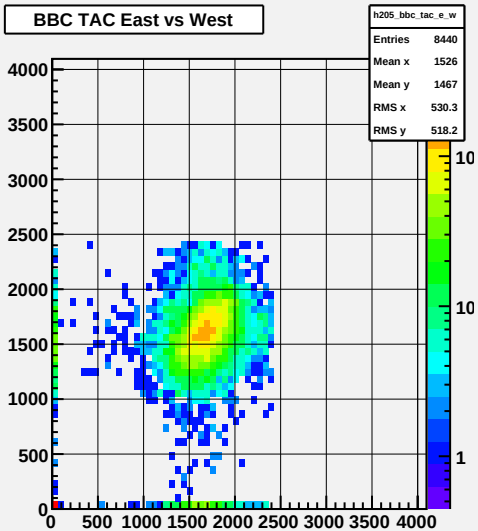

BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 8440
Mean 1311
RMS 1004

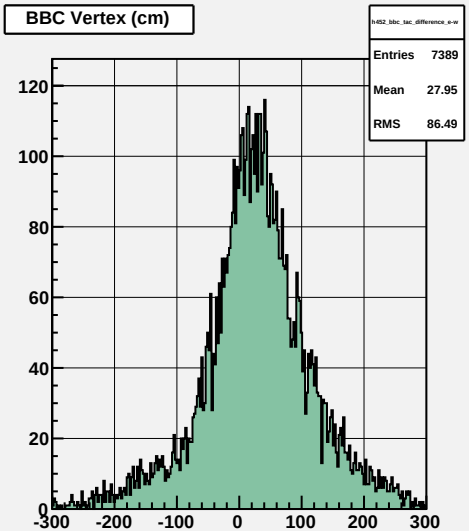

BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 8440
Mean 533.9
RMS 530.9

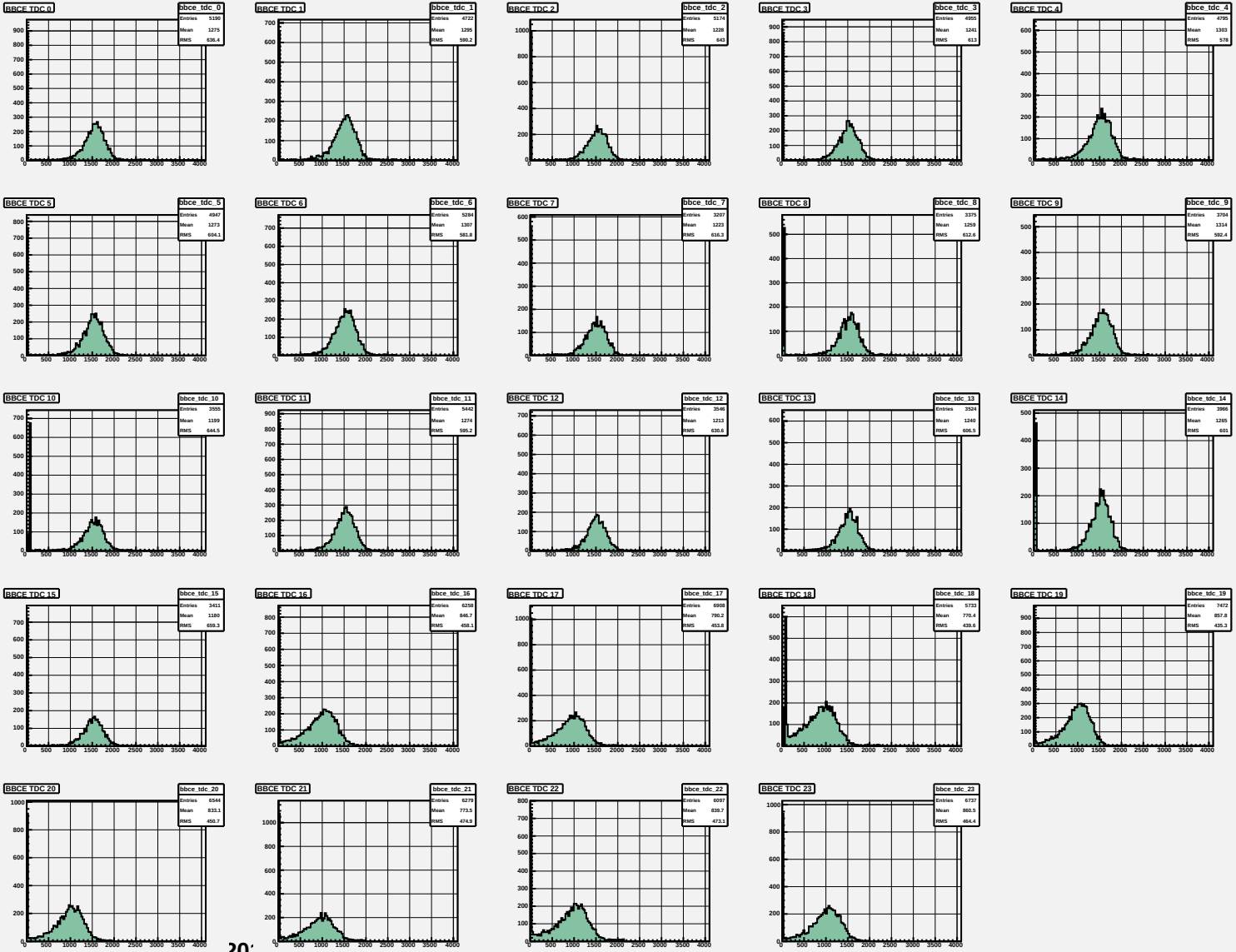

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 7686
Mean 1676
RMS 240.7

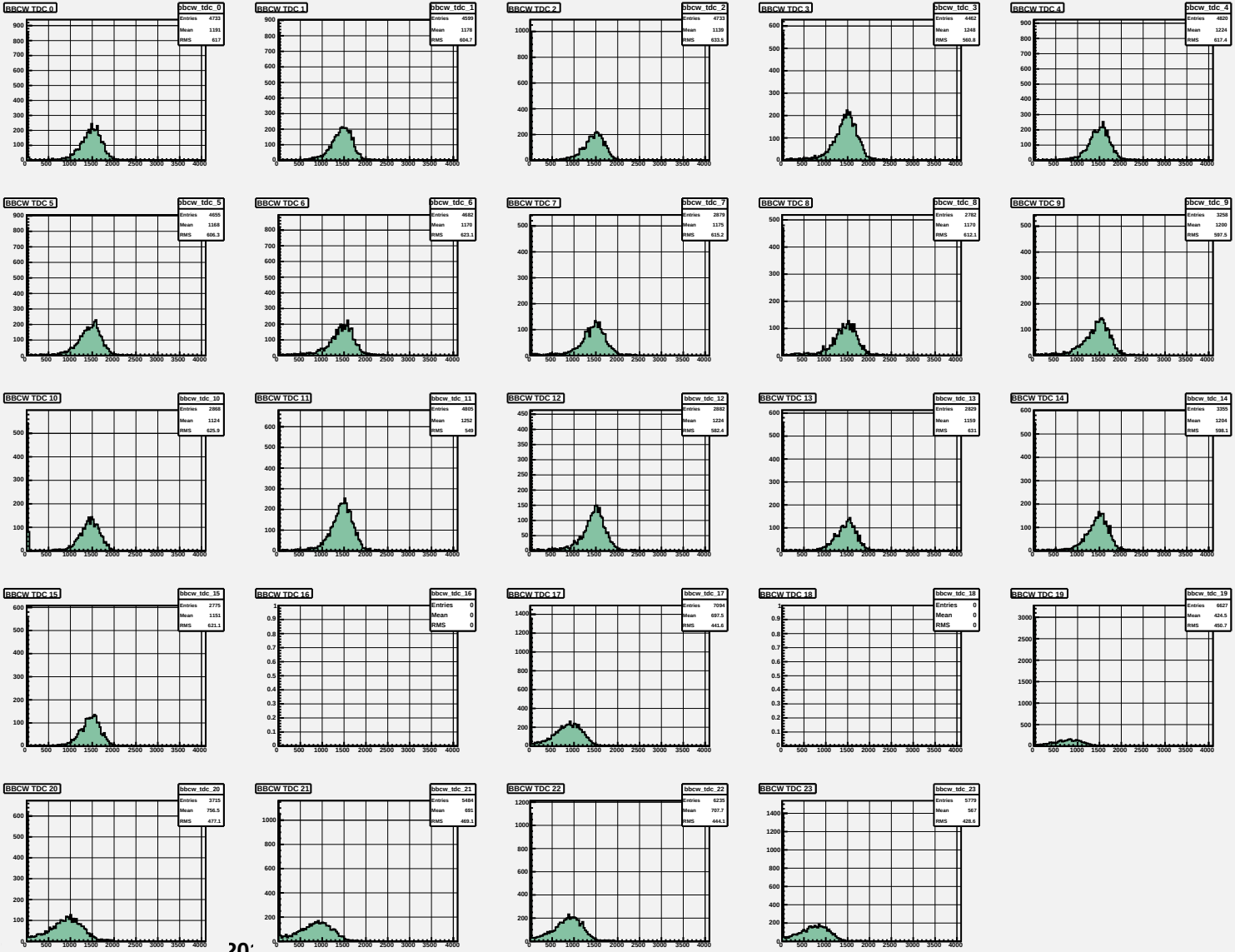

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 7698
Mean 1608
RMS 259

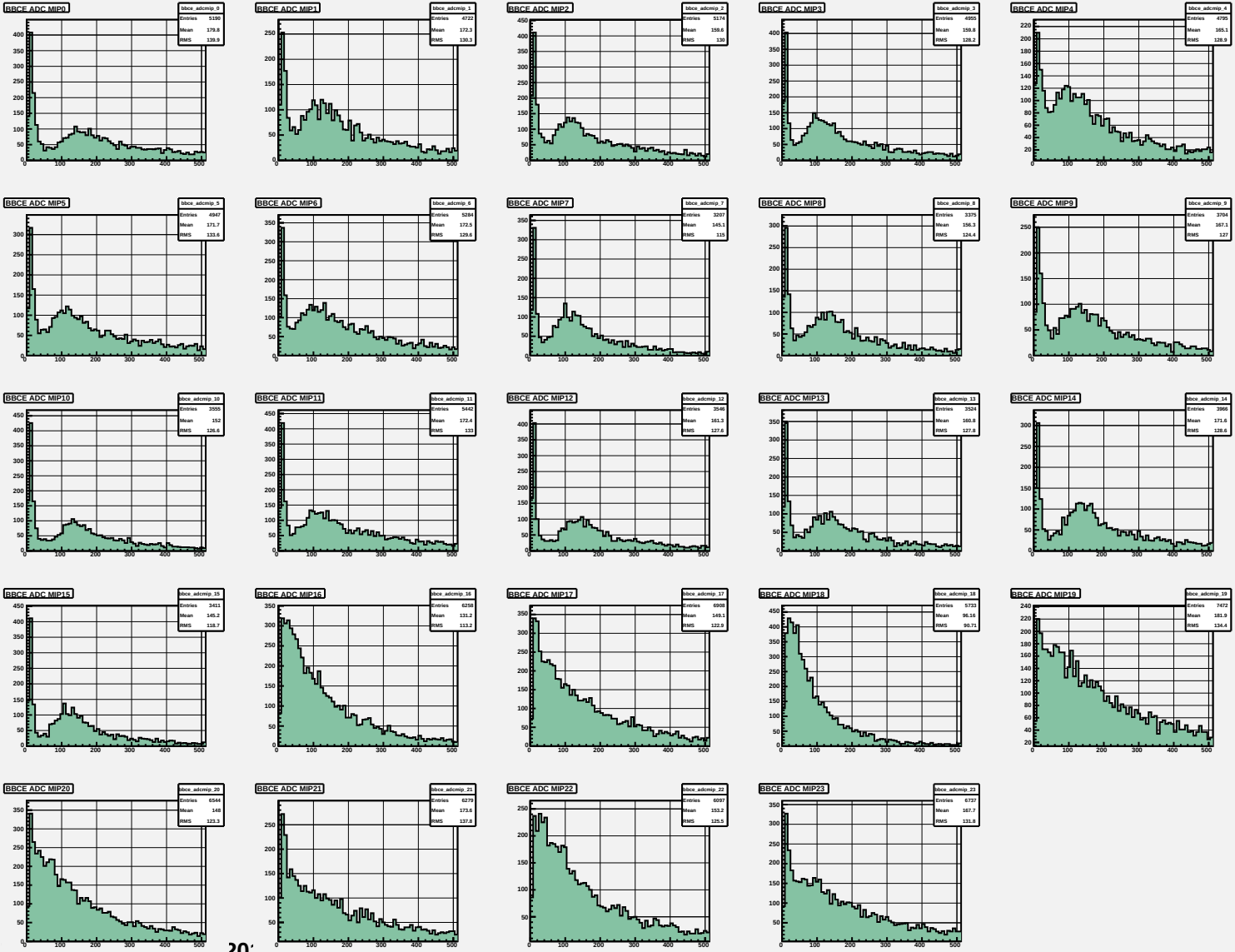

BBC TAC Difference
h204_bbc_tac_difference_e-w
Entries 7389
Mean 62.28
RMS 290.1

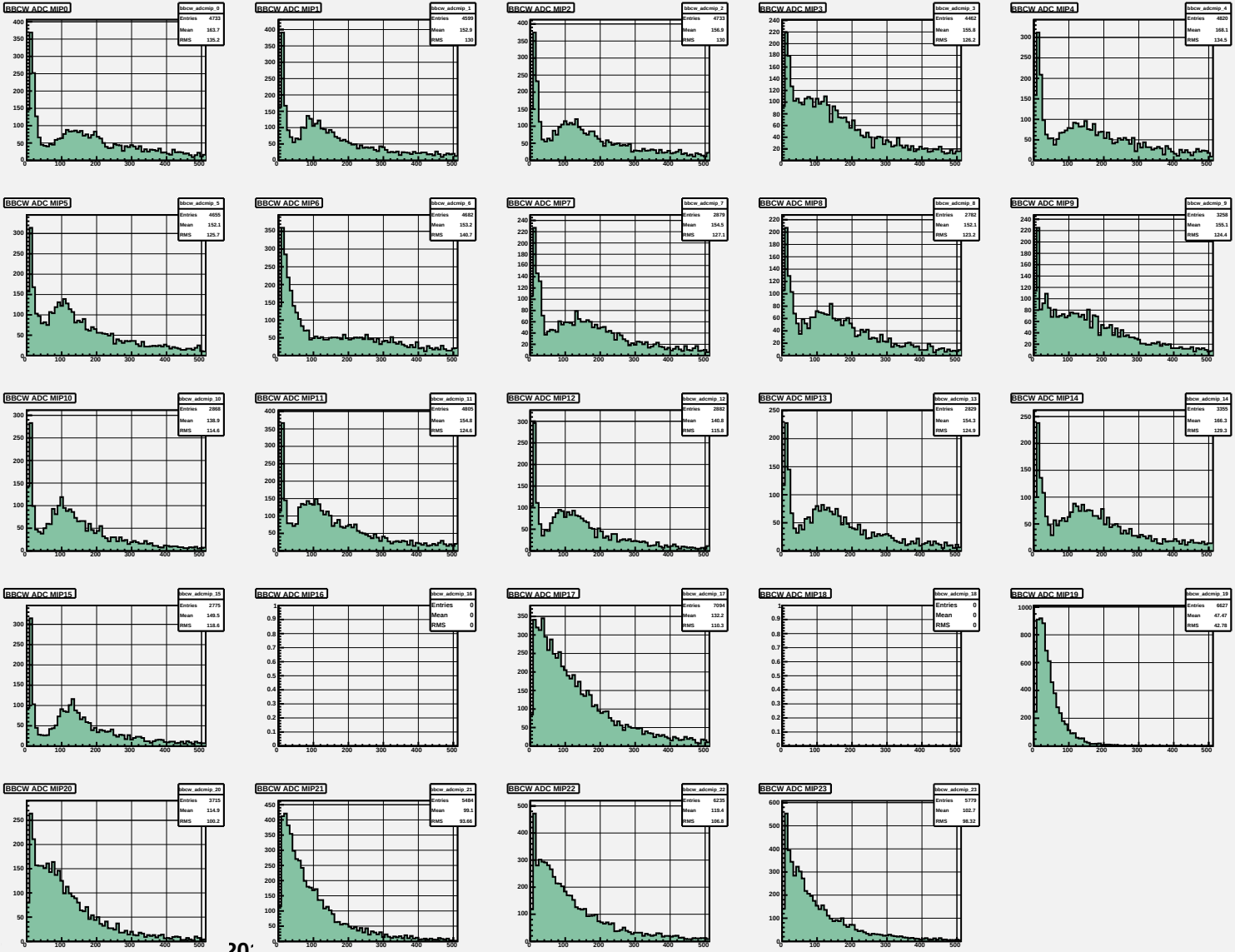

BBC TAC East vs West
h205_bbc_tac_e_w
Entries 8440
Mean x 1526
Mean y 1467
RMS x 530.3
RMS y 518.2

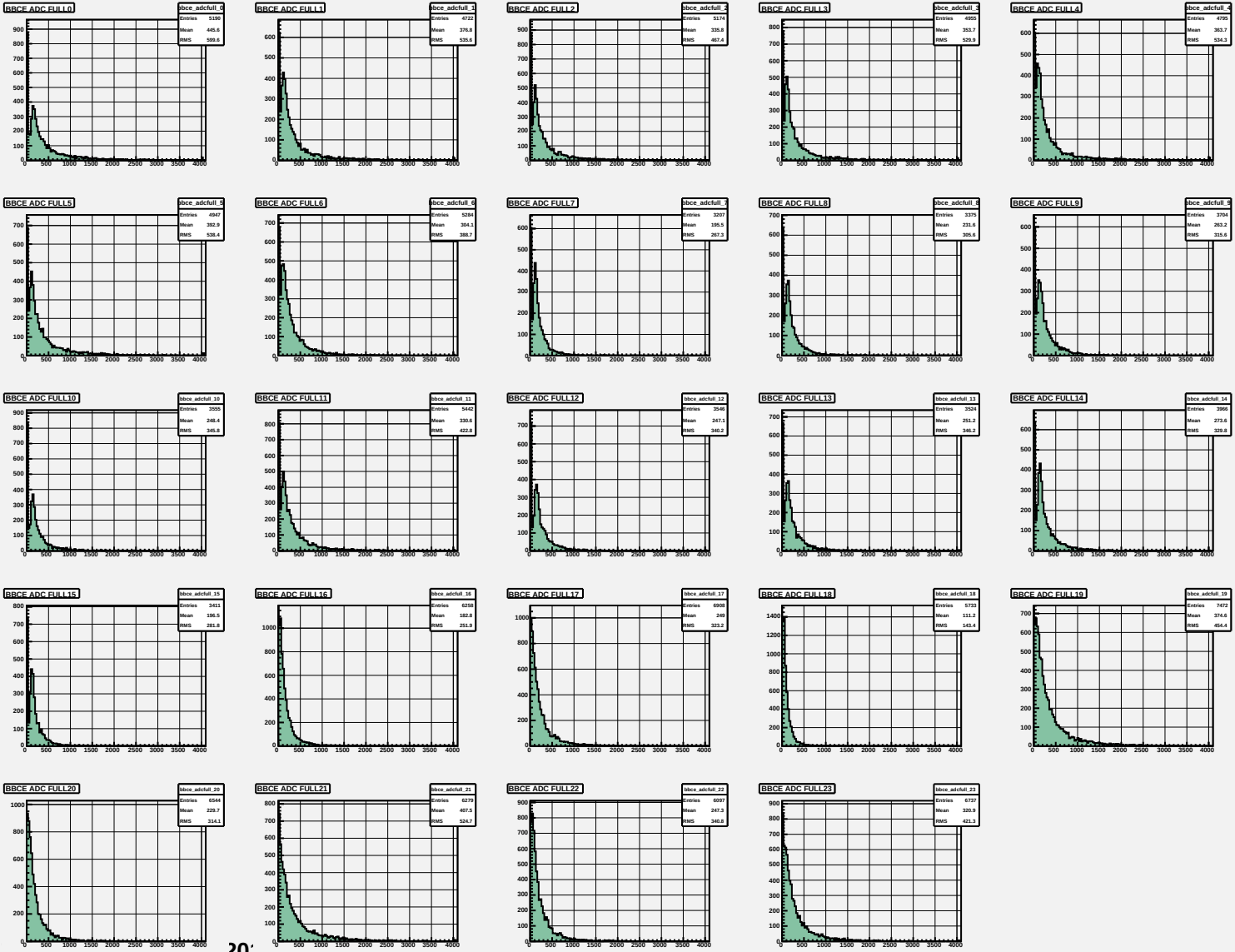

BBC Vertex (cm)
h452_bbc_tac_difference_e-w
Entries 7389
Mean 27.95
RMS 86.49

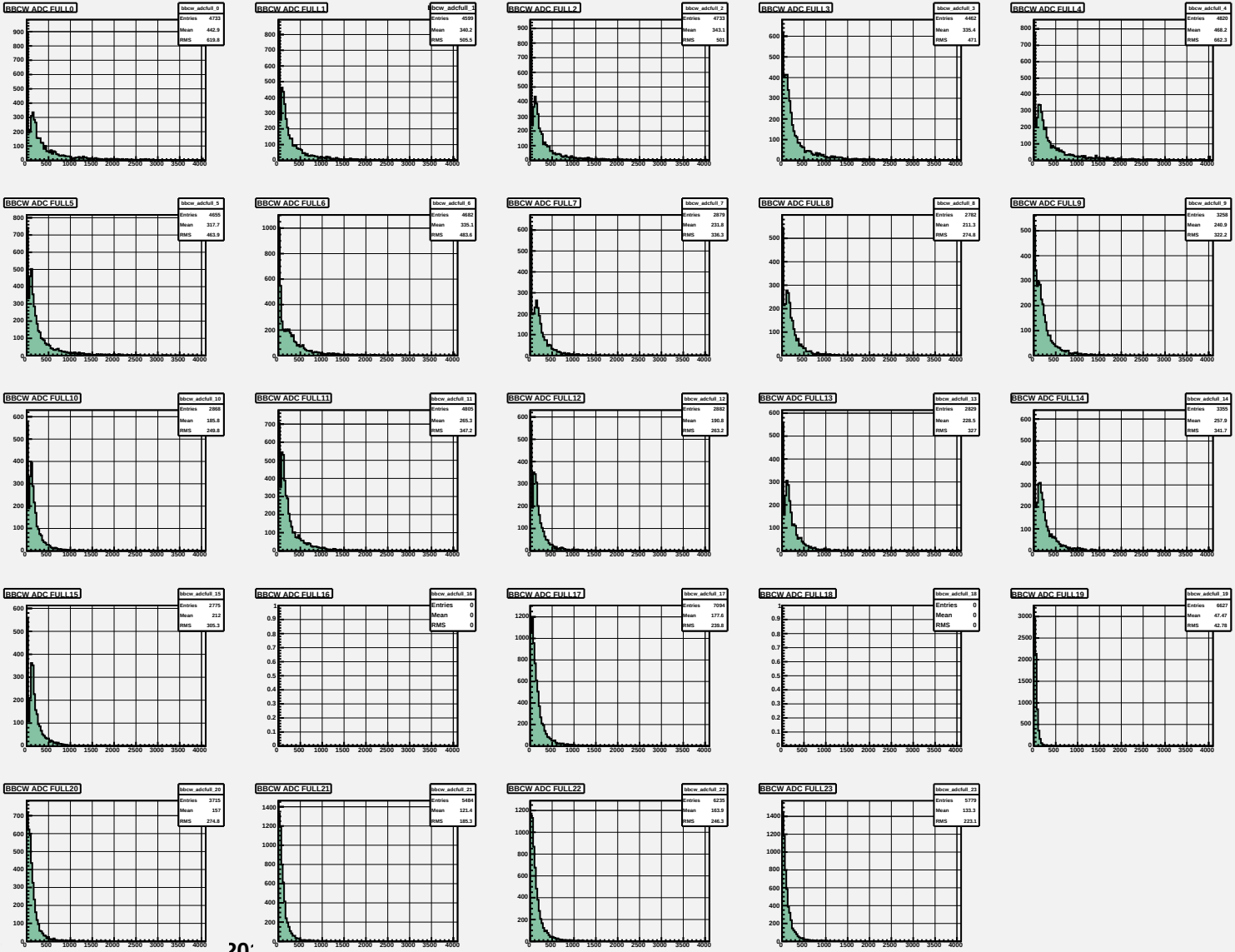

BBCE TDC 0
bbce_tdc_0
Entries 5190
Mean 1275
RMS 636.4
BBCE TDC 1
bbce_tdc_1
Entries 4722
Mean 1295
RMS 590.2
BBCE TDC 2
bbce_tdc_2
Entries 5174
Mean 1228
RMS 643
BBCE TDC 3
bbce_tdc_3
Entries 4955
Mean 1241
RMS 613
BBCE TDC 4
bbce_tdc_4
Entries 4795
Mean 1303
RMS 578
BBCE TDC 5
bbce_tdc_5
Entries 4947
Mean 1273
RMS 604.1
BBCE TDC 6
bbce_tdc_6
Entries 5284
Mean 1307
RMS 581.8
BBCE TDC 7
bbce_tdc_7
Entries 3207
Mean 1223
RMS 616.3
BBCE TDC 8
bbce_tdc_8
Entries 3375
Mean 1259
RMS 612.6
BBCE TDC 9
bbce_tdc_9
Entries 3704
Mean 1314
RMS 592.4
BBCE TDC 10
bbce_tdc_10
Entries 3555
Mean 1199
RMS 644.5
BBCE TDC 11
bbce_tdc_11
Entries 5462
Mean 1274
RMS 595.2
BBCE TDC 12
bbce_tdc_12
Entries 3546
Mean 1213
RMS 630.6
BBCE TDC 13
bbce_tdc_13
Entries 3524
Mean 1240
RMS 606.5
BBCE TDC 14
bbce_tdc_14
Entries 3966
Mean 1265
RMS 601
BBCE TDC 15
bbce_tdc_15
Entries 3411
Mean 1180
RMS 659.3
BBCE TDC 16
bbce_tdc_16
Entries 6258
Mean 846.7
RMS 458.1
BBCE TDC 17
bbce_tdc_17
Entries 6908
Mean 790.2
RMS 453.8
BBCE TDC 18
bbce_tdc_18
Entries 5733
Mean 770.4
RMS 439.6
BBCE TDC 19
bbce_tdc_19
Entries 7472
Mean 857.8
RMS 435.3
BBCE TDC 20
bbce_tdc_20
Entries 6544
Mean 833.1
RMS 450.7
BBCE TDC 21
bbce_tdc_21
Entries 6279
Mean 773.5
RMS 474.9
BBCE TDC 22
bbce_tdc_22
Entries 6097
Mean 839.7
RMS 473.1
BBCE TDC 23
bbce_tdc_23
Entries 6737
Mean 860.5
RMS 464.4

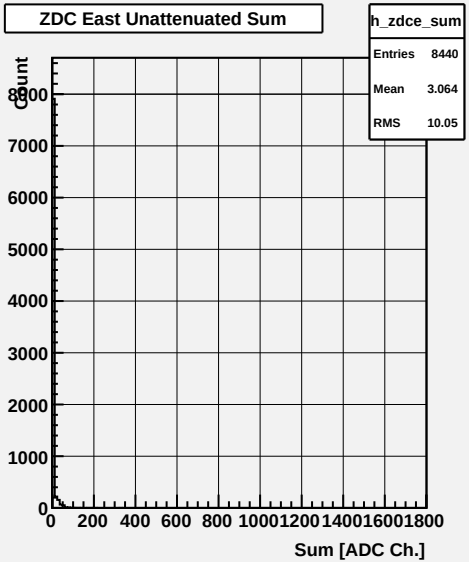

BBCW TDC 0
bbcw_tdc_0
Entries 4733
Mean 1191
RMS 617
BBCW TDC 1
bbcw_tdc_1
Entries 4599
Mean 1178
RMS 604.7
BBCW TDC 2
bbcw_tdc_2
Entries 4733
Mean 1139
RMS 633.5
BBCW TDC 3
bbcw_tdc_3
Entries 4462
Mean 1248
RMS 561.8
BBCW TDC 4
bbcw_tdc_4
Entries 4820
Mean 1224
RMS 617.4
BBCW TDC 5
bbcw_tdc_5
Entries 4655
Mean 1168
RMS 606.3
BBCW TDC 6
bbcw_tdc_6
Entries 4682
Mean 1176
RMS 623.1
BBCW TDC 7
bbcw_tdc_7
Entries 2879
Mean 1175
RMS 615.2
BBCW TDC 8
bbcw_tdc_8
Entries 2782
Mean 1170
RMS 612.1
BBCW TDC 9
bbcw_tdc_9
Entries 3258
Mean 1200
RMS 597.5
BBCW TDC 10
bbcw_tdc_10
Entries 2868
Mean 1124
RMS 625.9
BBCW TDC 11
bbcw_tdc_11
Entries 4805
Mean 1252
RMS 549
BBCW TDC 12
bbcw_tdc_12
Entries 2882
Mean 1224
RMS 582.4
BBCW TDC 13
bbcw_tdc_13
Entries 2829
Mean 1159
RMS 631
BBCW TDC 14
bbcw_tdc_14
Entries 3355
Mean 1204
RMS 598.1
BBCW TDC 15
bbcw_tdc_15
Entries 2775
Mean 1151
RMS 621.1
BBCW TDC 16
bbcw_tdc_16
Entries 0
Mean 0
RMS 0
BBCW TDC 17
bbcw_tdc_17
Entries 7094
Mean 697.5
RMS 441.6
BBCW TDC 18
bbcw_tdc_18
Entries 0
Mean 0
RMS 0
BBCW TDC 19
bbcw_tdc_19
Entries 6627
Mean 424.5
RMS 450.7
BBCW TDC 20
bbcw_tdc_20
Entries 3715
Mean 756.5
RMS 477.1
BBCW TDC 21
bbcw_tdc_21
Entries 5484
Mean 681
RMS 469.1
BBCW TDC 22
bbcw_tdc_22
Entries 6235
Mean 707.7
RMS 444.1
BBCW TDC 23
bbcw_tdc_23
Entries 5779
Mean 567
RMS 426.6

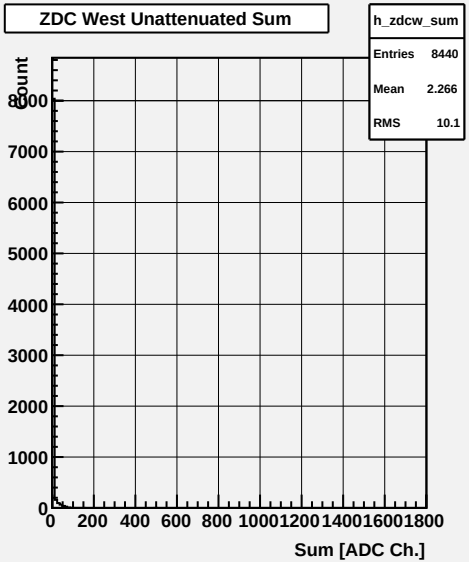

BBCE ADC MIP0
bbce_adcmip_0
Entries 5190
Mean 179.8
RMS 139.9
BBCE ADC MIP1
bbce_adcmip_1
Entries 4722
Mean 172.3
RMS 130.3
BBCE ADC MIP2
bbce_adcmip_2
Entries 5174
Mean 159.6
RMS 130
BBCE ADC MIP3
bbce_adcmip_3
Entries 4955
Mean 159.8
RMS 128.2
BBCE ADC MIP4
bbce_adcmip_4
Entries 4795
Mean 165.1
RMS 128.9
BBCE ADC MIP5
bbce_adcmip_5
Entries 4947
Mean 171.7
RMS 133.6
BBCE ADC MIP6
bbce_adcmip_6
Entries 5284
Mean 172.5
RMS 129.6
BBCE ADC MIP7
bbce_adcmip_7
Entries 3207
Mean 145.1
RMS 115
BBCE ADC MIP8
bbce_adcmip_8
Entries 3375
Mean 156.3
RMS 124.4
BBCE ADC MIP9
bbce_adcmip_9
Entries 3704
Mean 167.1
RMS 127
BBCE ADC MIP10
bbce_adcmip_10
Entries 3555
Mean 152
RMS 126.6
BBCE ADC MIP11
bbce_adcmip_11
Entries 5462
Mean 172.4
RMS 131
BBCE ADC MIP12
bbce_adcmip_12
Entries 3546
Mean 161.3
RMS 127.6
BBCE ADC MIP13
bbce_adcmip_13
Entries 3524
Mean 160.8
RMS 127.8
BBCE ADC MIP14
bbce_adcmip_14
Entries 3966
Mean 171.6
RMS 128.6
BBCE ADC MIP15
bbce_adcmip_15
Entries 3411
Mean 145.2
RMS 118.7
BBCE ADC MIP16
bbce_adcmip_16
Entries 6258
Mean 131.2
RMS 113.2
BBCE ADC MIP17
bbce_adcmip_17
Entries 6908
Mean 149.1
RMS 122.9
BBCE ADC MIP18
bbce_adcmip_18
Entries 5733
Mean 96.16
RMS 90.71
BBCE ADC MIP19
bbce_adcmip_19
Entries 7472
Mean 181.9
RMS 134.4
BBCE ADC MIP20
bbce_adcmip_20
Entries 6544
Mean 148
RMS 123.3
BBCE ADC MIP21
bbce_adcmip_21
Entries 6279
Mean 173.6
RMS 137.8
BBCE ADC MIP22
bbce_adcmip_22
Entries 6097
Mean 153.2
RMS 125.5
BBCE ADC MIP23
bbce_adcmip_23
Entries 6737
Mean 167.7
RMS 131.8

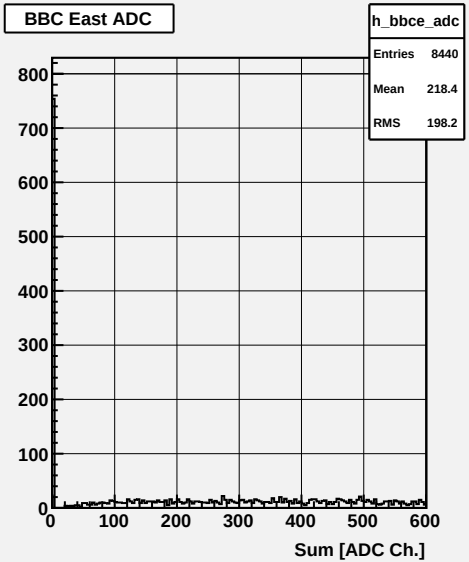

BBCW ADC MIP0
bbcw_adcmip_0
Entries 4733
Mean 163.7
RMS 135.2
BBCW ADC MIP1
bbcw_adcmip_1
Entries 4599
Mean 152.9
RMS 130
BBCW ADC MIP2
bbcw_adcmip_2
Entries 4733
Mean 156.9
RMS 130
BBCW ADC MIP3
bbcw_adcmip_3
Entries 4462
Mean 155.8
RMS 128.2
BBCW ADC MIP4
bbcw_adcmip_4
Entries 4820
Mean 168.1
RMS 134.3
BBCW ADC MIP5
bbcw_adcmip_5
Entries 4655
Mean 152.1
RMS 125.7
BBCW ADC MIP6
bbcw_adcmip_6
Entries 4682
Mean 153.2
RMS 140.7
BBCW ADC MIP7
bbcw_adcmip_7
Entries 2879
Mean 154.5
RMS 127.1
BBCW ADC MIP8
bbcw_adcmip_8
Entries 2782
Mean 152.1
RMS 123.2
BBCW ADC MIP9
bbcw_adcmip_9
Entries 3258
Mean 159.1
RMS 124.4
BBCW ADC MIP10
bbcw_adcmip_10
Entries 2868
Mean 138.9
RMS 114.6
BBCW ADC MIP11
bbcw_adcmip_11
Entries 4805
Mean 154.8
RMS 124.6
BBCW ADC MIP12
bbcw_adcmip_12
Entries 2882
Mean 140.8
RMS 115.8
BBCW ADC MIP13
bbcw_adcmip_13
Entries 2829
Mean 154.3
RMS 124.9
BBCW ADC MIP14
bbcw_adcmip_14
Entries 3355
Mean 166.3
RMS 129.3
BBCW ADC MIP15
bbcw_adcmip_15
Entries 2775
Mean 149.5
RMS 118.6
BBCW ADC MIP16
bbcw_adcmip_16
Entries 0
Mean 0
RMS 0
BBCW ADC MIP17
bbcw_adcmip_17
Entries 7094
Mean 132.2
RMS 110.3
BBCW ADC MIP18
bbcw_adcmip_18
Entries 0
Mean 0
RMS 0
BBCW ADC MIP19
bbcw_adcmip_19
Entries 6627
Mean 47.47
RMS 42.78
BBCW ADC MIP20
bbcw_adcmip_20
Entries 3715
Mean 114.9
RMS 100.2
BBCW ADC MIP21
bbcw_adcmip_21
Entries 5484
Mean 99.1
RMS 93.66
BBCW ADC MIP22
bbcw_adcmip_22
Entries 6235
Mean 119.4
RMS 106.8
BBCW ADC MIP23
bbcw_adcmip_23
Entries 5779
Mean 102.7
RMS 98.32

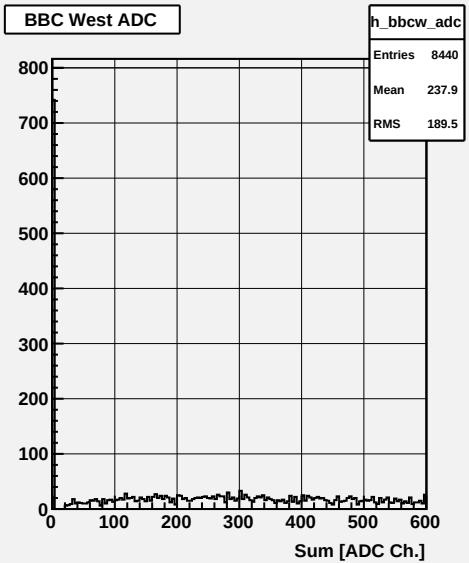

BBCE ADC FULL0
bbce_adcfull_0
Entries 5190
Mean 445.6
RMS 589.6
BBCE ADC FULL1
bbce_adcfull_1
Entries 4722
Mean 376.8
RMS 535.6
BBCE ADC FULL2
bbce_adcfull_2
Entries 5174
Mean 335.8
RMS 467.4
BBCE ADC FULL3
bbce_adcfull_3
Entries 4955
Mean 351.7
RMS 529.9
BBCE ADC FULL4
bbce_adcfull_4
Entries 4795
Mean 363.7
RMS 534.2
BBCE ADC FULL5
bbce_adcfull_5
Entries 4947
Mean 352.9
RMS 538.4
BBCE ADC FULL6
bbce_adcfull_6
Entries 5284
Mean 304.1
RMS 388.7
BBCE ADC FULL7
bbce_adcfull_7
Entries 3207
Mean 195.5
RMS 267.3
BBCE ADC FULL8
bbce_adcfull_8
Entries 3375
Mean 231.6
RMS 305.6
BBCE ADC FULL9
bbce_adcfull_9
Entries 3704
Mean 263.2
RMS 315.6
BBCE ADC FULL10
bbce_adcfull_10
Entries 3555
Mean 248.4
RMS 345.8
BBCE ADC FULL11
bbce_adcfull_11
Entries 5462
Mean 330.6
RMS 422.8
BBCE ADC FULL12
bbce_adcfull_12
Entries 3546
Mean 247.1
RMS 340.2
BBCE ADC FULL13
bbce_adcfull_13
Entries 3524
Mean 251.2
RMS 346.2
BBCE ADC FULL14
bbce_adcfull_14
Entries 3966
Mean 273.6
RMS 329.8
BBCE ADC FULL15
bbce_adcfull_15
Entries 3411
Mean 196.5
RMS 281.8
BBCE ADC FULL16
bbce_adcfull_16
Entries 6258
Mean 182.8
RMS 251.9
BBCE ADC FULL17
bbce_adcfull_17
Entries 6908
Mean 249
RMS 323.2
BBCE ADC FULL18
bbce_adcfull_18
Entries 5733
Mean 111.2
RMS 143.4
BBCE ADC FULL19
bbce_adcfull_19
Entries 7472
Mean 374.6
RMS 454.4
BBCE ADC FULL20
bbce_adcfull_20
Entries 6544
Mean 229.7
RMS 314.1
BBCE ADC FULL21
bbce_adcfull_21
Entries 6279
Mean 407.5
RMS 524.7
BBCE ADC FULL22
bbce_adcfull_22
Entries 6097
Mean 247.3
RMS 340.8
BBCE ADC FULL23
bbce_adcfull_23
Entries 6737
Mean 320.9
RMS 421.3

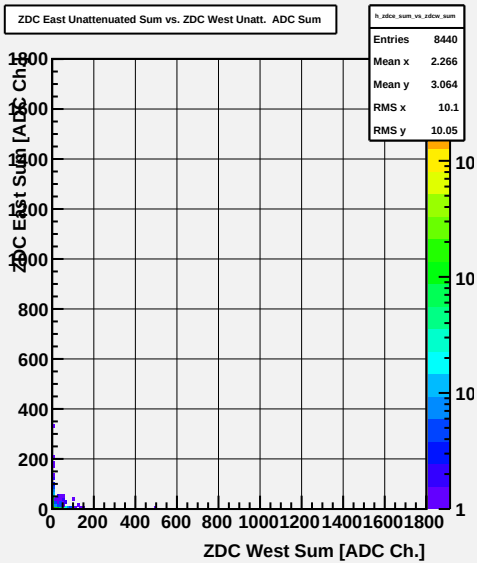

BBCW ADC FULL0
bbcw_adcfull_0
Entries 4733
Mean 442.9
RMS 619.8
BBCW ADC FULL1
bbcw_adcfull_1
Entries 4599
Mean 340.2
RMS 505.5
BBCW ADC FULL2
bbcw_adcfull_2
Entries 4733
Mean 343.1
RMS 501
BBCW ADC FULL3
bbcw_adcfull_3
Entries 4462
Mean 335.4
RMS 471
BBCW ADC FULL4
bbcw_adcfull_4
Entries 4820
Mean 468.2
RMS 662.2
BBCW ADC FULL5
bbcw_adcfull_5
Entries 4655
Mean 317.7
RMS 463.9
BBCW ADC FULL6
bbcw_adcfull_6
Entries 4682
Mean 335.1
RMS 483.6
BBCW ADC FULL7
bbcw_adcfull_7
Entries 2879
Mean 231.8
RMS 336.3
BBCW ADC FULL8
bbcw_adcfull_8
Entries 2782
Mean 211.3
RMS 274.8
BBCW ADC FULL9
bbcw_adcfull_9
Entries 3258
Mean 240.9
RMS 322.2
BBCW ADC FULL10
bbcw_adcfull_10
Entries 2868
Mean 185.8
RMS 249.8
BBCW ADC FULL11
bbcw_adcfull_11
Entries 4805
Mean 265.3
RMS 347.2
BBCW ADC FULL12
bbcw_adcfull_12
Entries 2882
Mean 190.8
RMS 263.2
BBCW ADC FULL13
bbcw_adcfull_13
Entries 2929
Mean 228.5
RMS 327
BBCW ADC FULL14
bbcw_adcfull_14
Entries 3355
Mean 257.9
RMS 341.7
BBCW ADC FULL15
bbcw_adcfull_15
Entries 2775
Mean 212
RMS 305.3
BBCW ADC FULL16
bbcw_adcfull_16
Entries 0
Mean 0
RMS 0
BBCW ADC FULL17
bbcw_adcfull_17
Entries 7094
Mean 177.6
RMS 239.8
BBCW ADC FULL18
bbcw_adcfull_18
Entries 0
Mean 0
RMS 0
BBCW ADC FULL19
bbcw_adcfull_19
Entries 6627
Mean 47.47
RMS 42.78
BBCW ADC FULL20
bbcw_adcfull_20
Entries 3715
Mean 157
RMS 274.8
BBCW ADC FULL21
bbcw_adcfull_21
Entries 5484
Mean 121.4
RMS 185.3
BBCW ADC FULL22
bbcw_adcfull_22
Entries 6235
Mean 163.9
RMS 246.3
BBCW ADC FULL23
bbcw_adcfull_23
Entries 5779
Mean 133.3
RMS 223.1

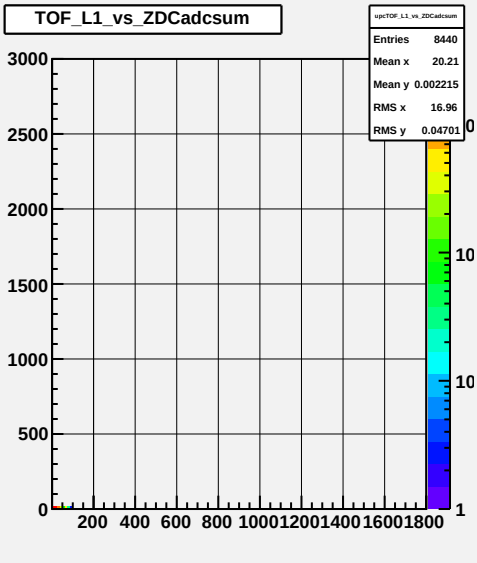

ZDC East Unattenuated Sum
h_zdce_sum
Entries 8440
Mean 3.064
RMS 10.05
Count
Sum [ADC Ch.]

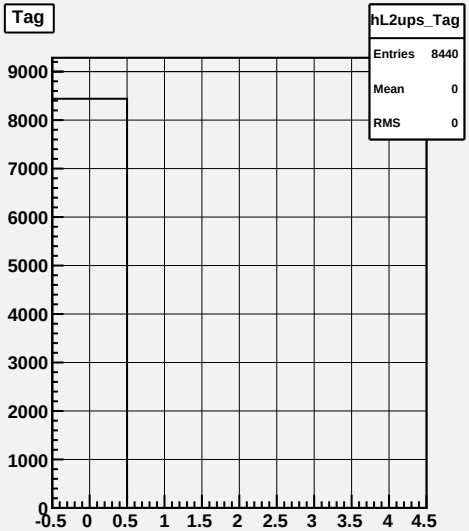

ZDC West Unattenuated Sum
h_zdcw_sum
Entries 8440
Mean 2.266
RMS 10.1
Count
Sum [ADC Ch.]

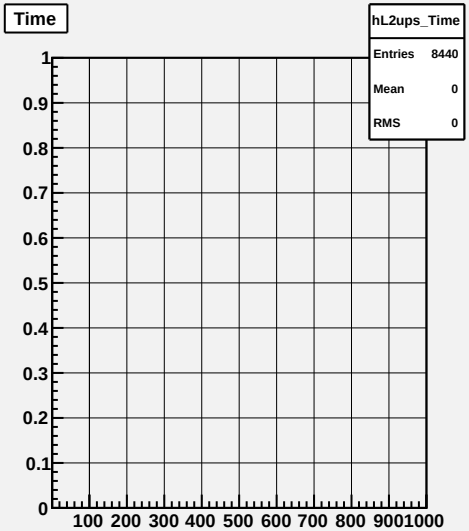

BBC East ADC
h_bbce_adc
Entries 8440
Mean 218.4
RMS 198.2
Sum [ADC Ch.]

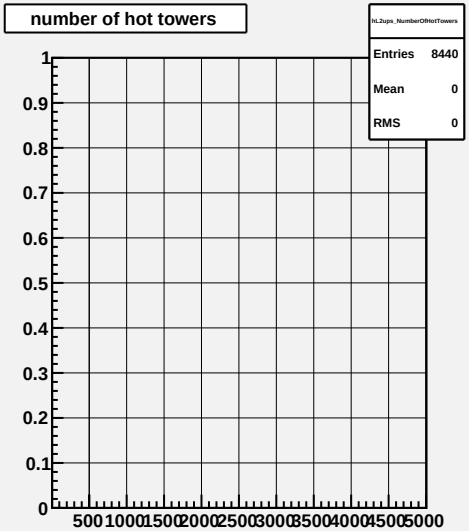

BBC West ADC
h_bbcw_adc
Entries 8440
Mean 237.9
RMS 189.5
Sum [ADC Ch.]

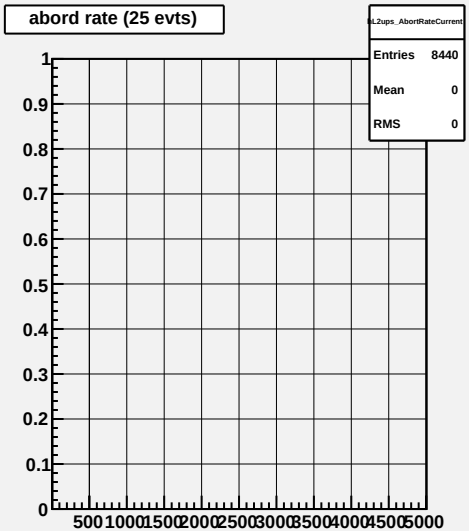

ZDC East Unattenuated Sum vs. ZDC West Unatt. ADC Sum
h_zdce_sum_vs_zdcw_sum
Entries 8440
Mean x 2.266
Mean y 3.064
RMS x 10.1
RMS y 10.05
ZDC East Sum [ADC Ch.]
ZDC West Sum [ADC Ch.]

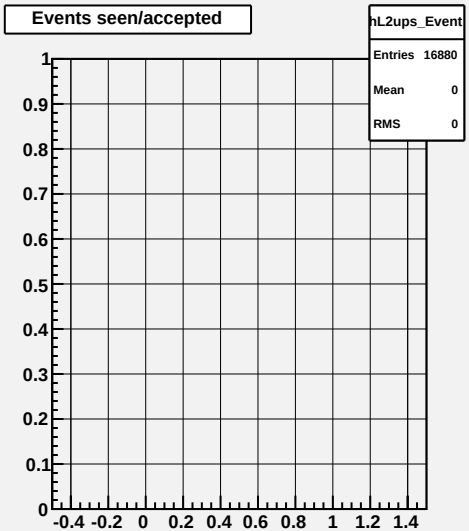

TOF_L1_vs_ZDCadcsum
upcTOF_L1_vs_ZDCadcsum
Entries 8440
Mean x 20.21
Mean y 0.002215
RMS x 16.96
RMS y 0.04701

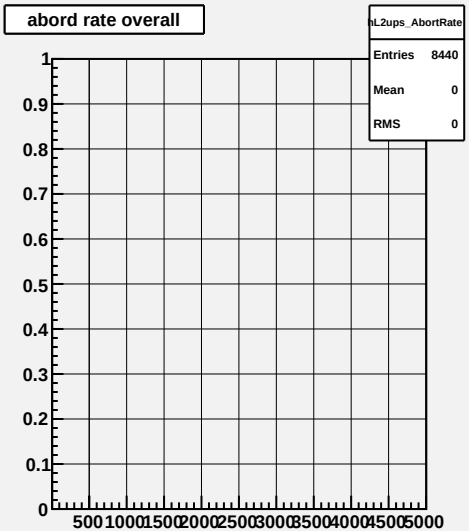

Tag
hL2ups_Tag
Entries 8440
Mean 0
RMS 0

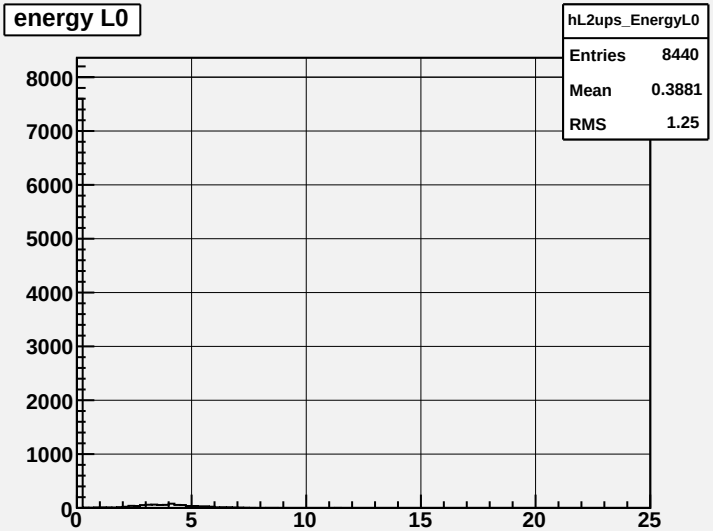

Time
hL2ups_Time
Entries 8440
Mean 0
RMS 0

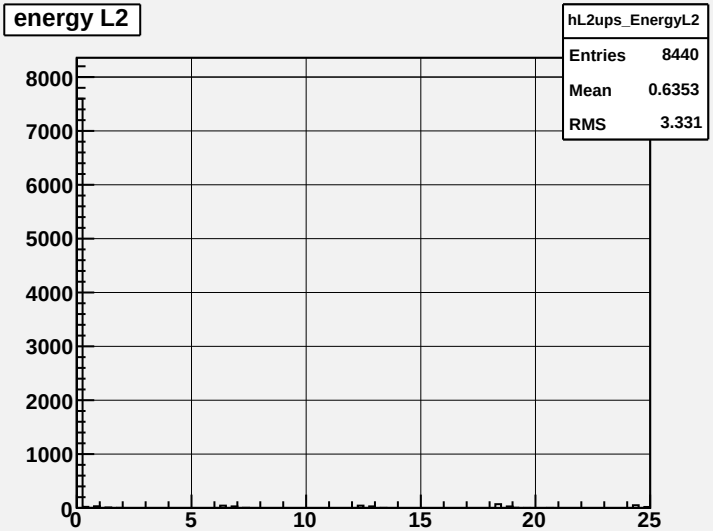

number of hot towers
hL2ups_NumberOfHotTowers
Entries 8440
Mean 0
RMS 0

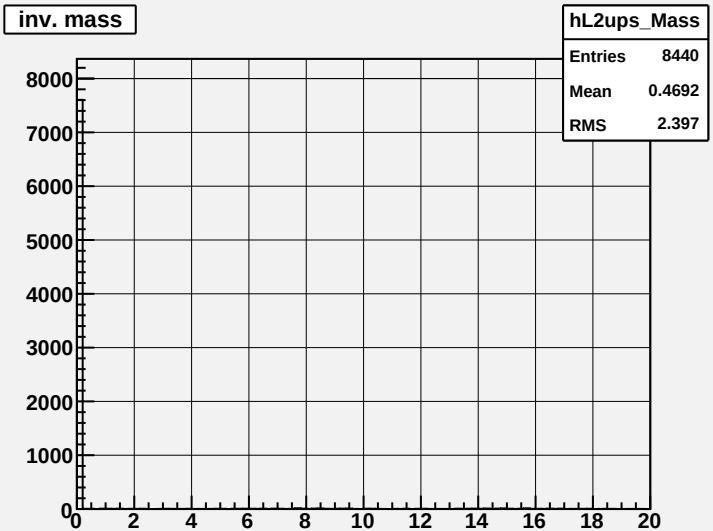

abord rate (25 evts)
hL2ups_AbortRateCurrent
Entries 8440
Mean 0
RMS 0

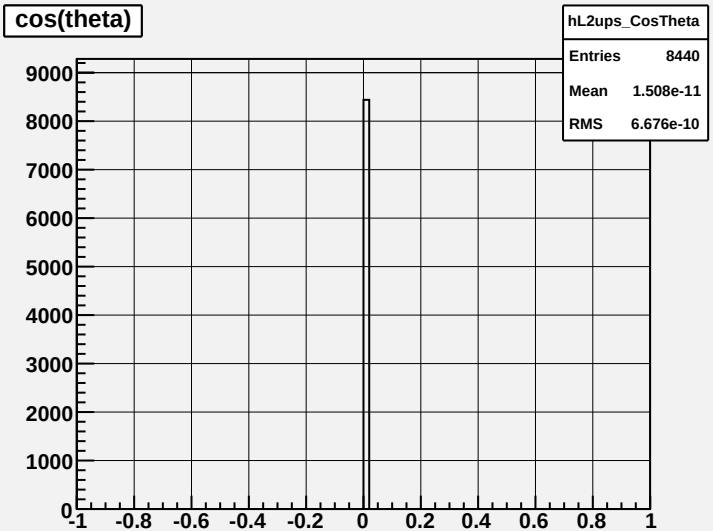

Events seen/accepted
hL2ups_Event
Entries 16880
Mean 0
RMS 0

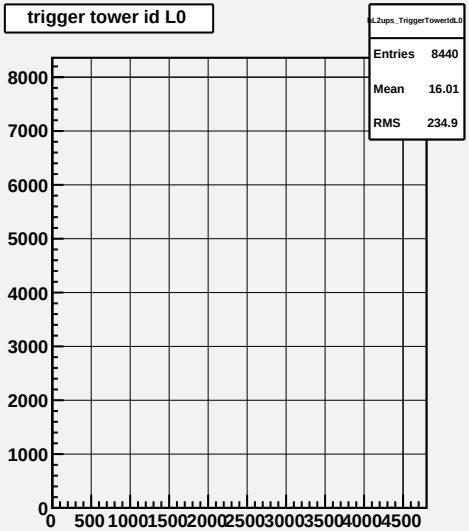

abord rate overall
hL2ups_AbortRate
Entries 8440
Mean 0
RMS 0

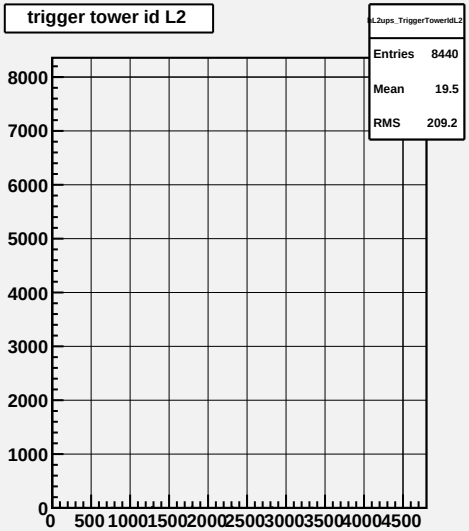

energy L0
hL2ups_EnergyL0
Entries 8440
Mean 0.3881
RMS 1.25
8000
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25

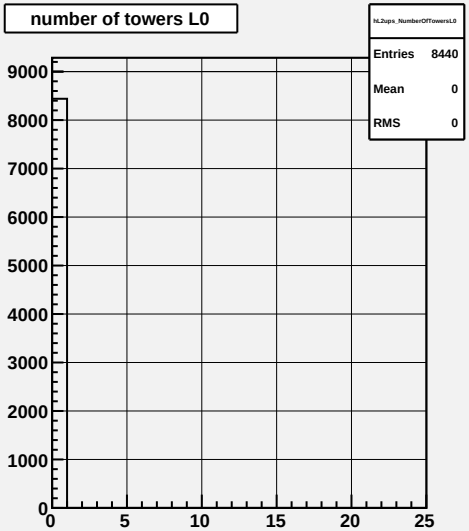

energy L2
hL2ups_EnergyL2
Entries 8440
Mean 0.6353
RMS 3.331
8000
7000
6000
5000
4000
3000
2000
1000
0
0
5
10
15
20
25

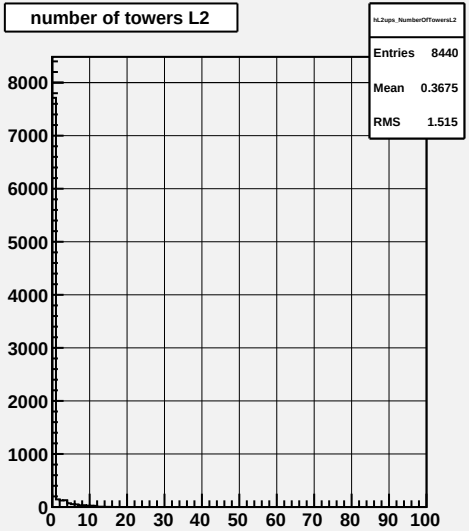

inv. mass
hL2ups_Mass
Entries 8440
Mean 0.4692
RMS 2.397
8000
7000
6000
5000
4000
3000
2000
1000
0
0
2
4
6
8
10
12
14
16
18
20

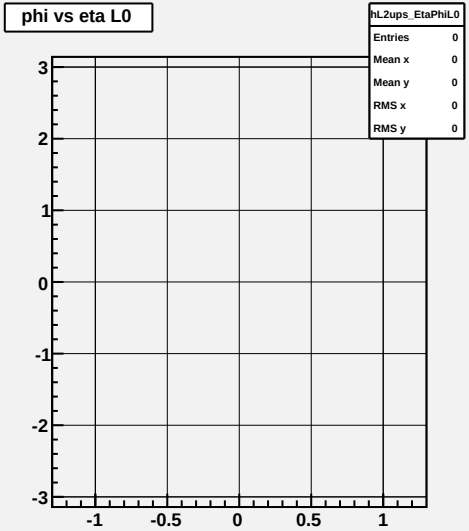

cos(theta)
hL2ups_CosTheta
Entries 8440
Mean 1.508e-11
RMS 6.676e-10
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1

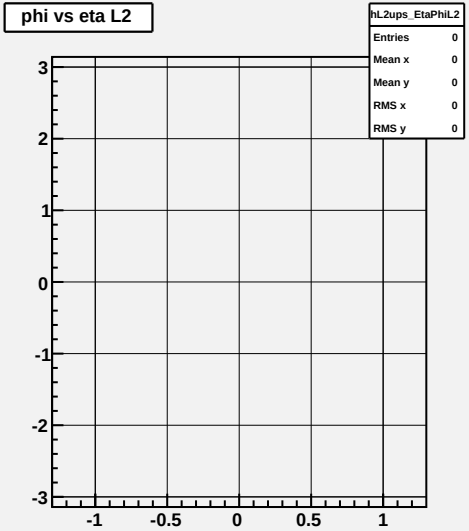

trigger tower id L0
hL2ups_TriggerTowerIdL0
Entries 8440
Mean 16.01
RMS 234.9

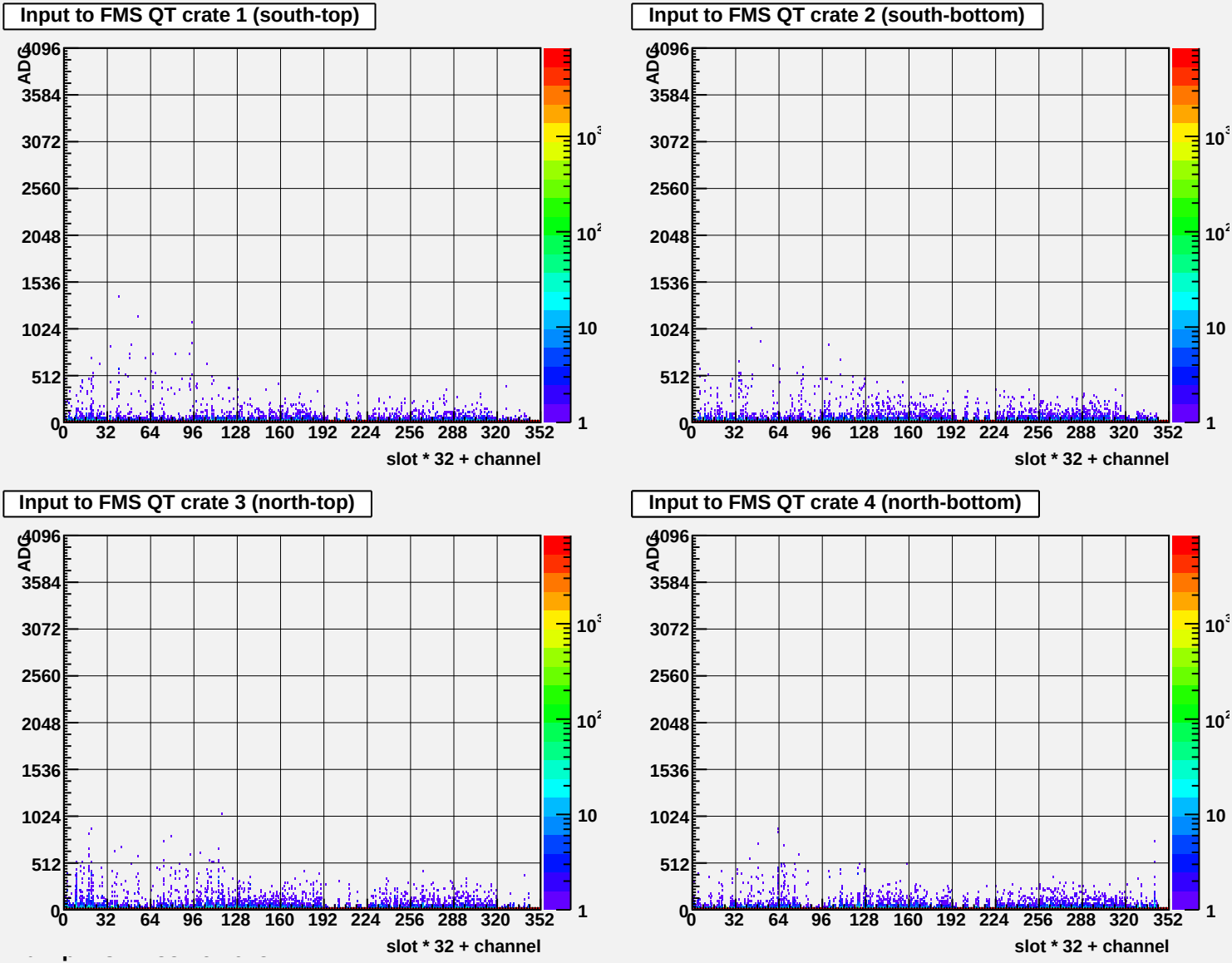

trigger tower id L2
hL2ups_TriggerTowerIdL2
Entries 8440
Mean 19.5
RMS 209.2

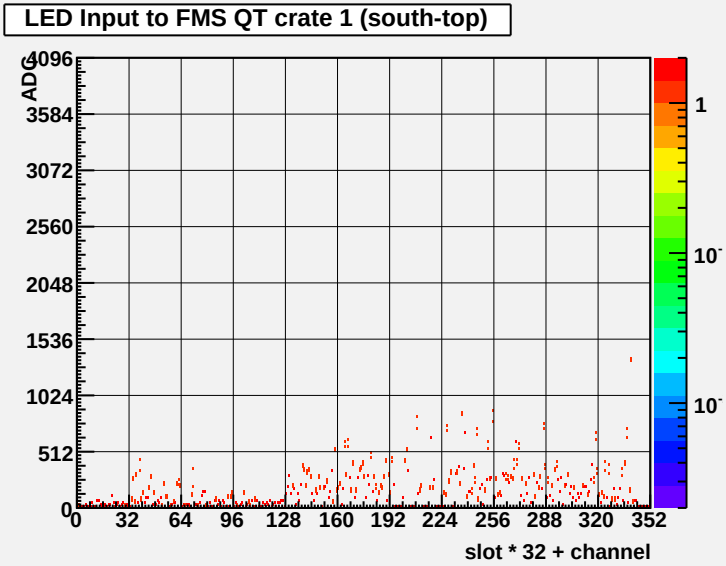

number of towers L0
hL2ups_NumberOfTowersL0
Entries 8440
Mean 0
RMS 0

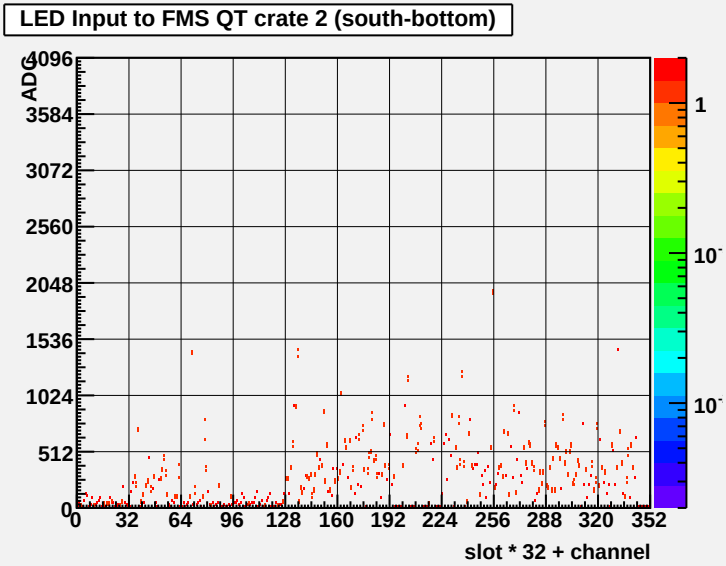

number of towers L2
hL2ups_NumberOfTowersL2
Entries 8440
Mean 0.3675
RMS 1.515

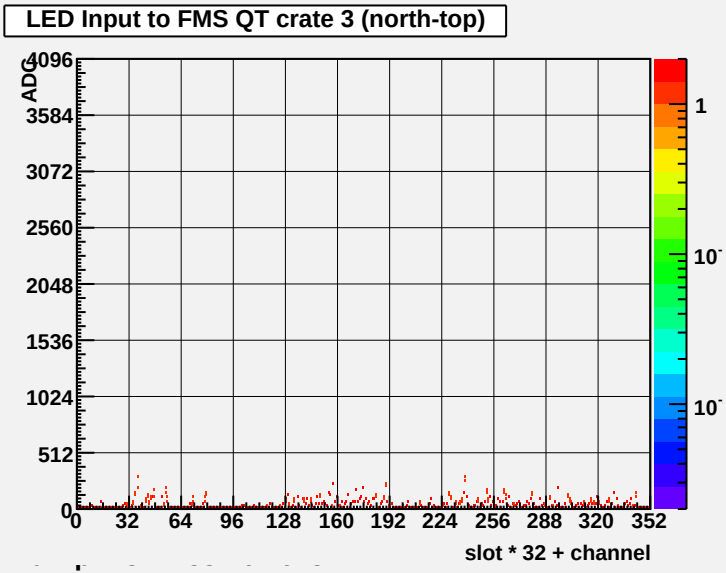

phi vs eta L0
hL2ups_EtaPhiL0
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0

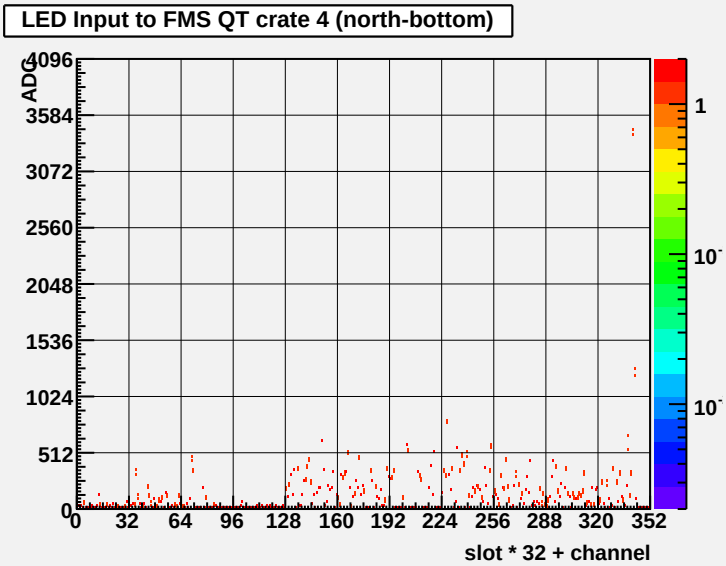

phi vs eta L2
hL2ups_EtaPhiL2
Entries 0
Mean x 0
Mean y 0
RMS x 0
RMS y 0


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

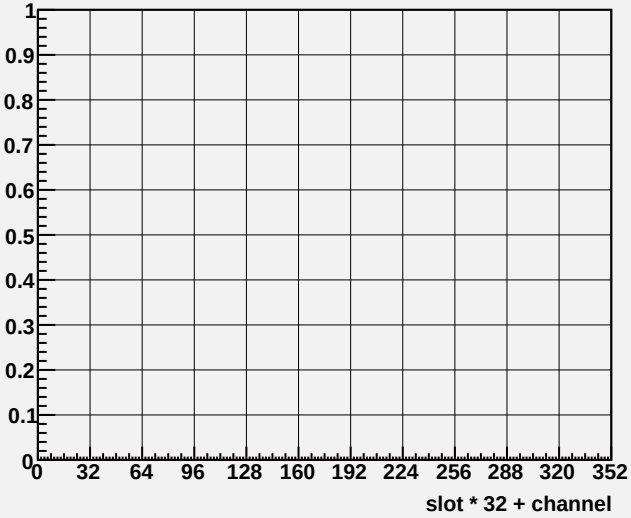

LED Input to FMS QT crate 1 (south-top)
ADC
4096
3584
3072
2560
2048
1536
1024
512
0
0 32 64 96 128 160 192 224 256 288 320 352
slot * 32 + channel
1
10⁻
10⁻


LED 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
1
10⁻
10⁻

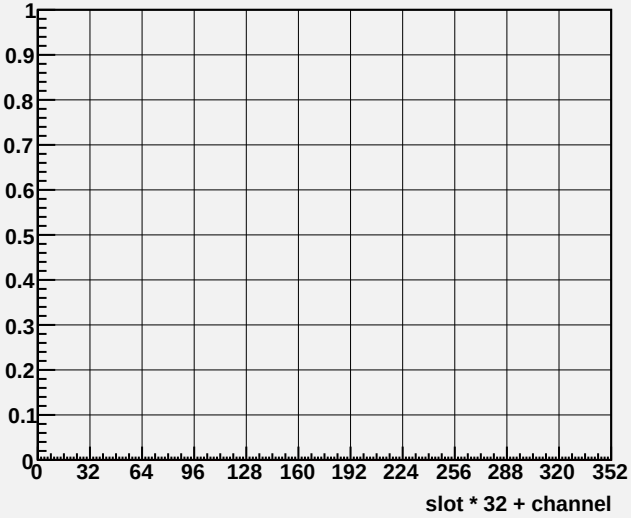

LED Input to FMS QT crate 3 (north-top)
ADC
4096
3584
3072
2560
2048
1536
1024
512
0
0 32 64 96 128 160 192 224 256 288 320 352
slot * 32 + channel
1
10⁻
10⁻


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⁻

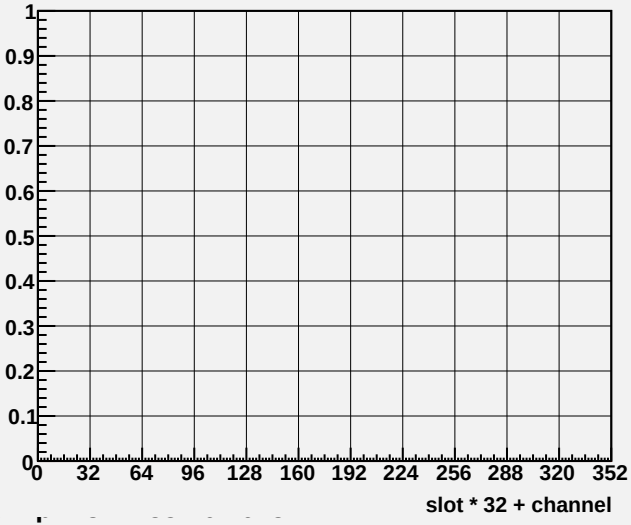
ADC>4094 for QT crate 1 (south-top)



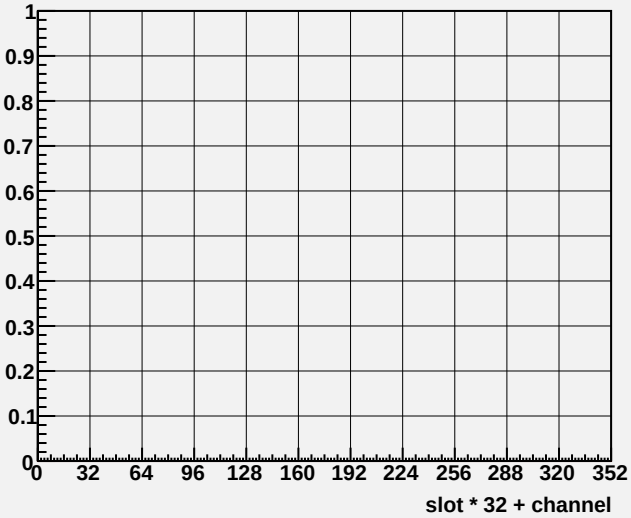
ADC>4094 for QT crate 2 (south-bottom)



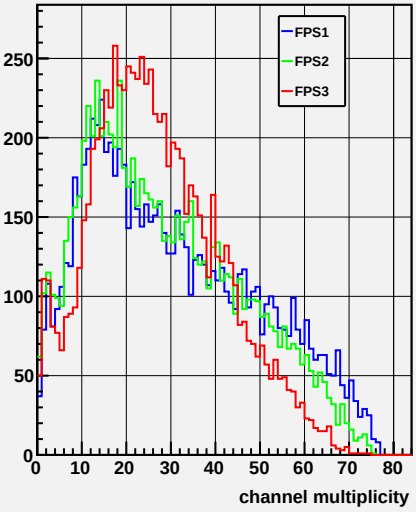
ADC>4094 for QT crate 3 (north-top)



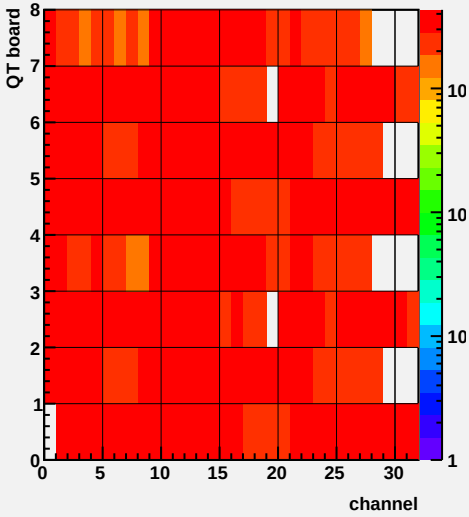
ADC>4094 for QT crate 4 (north-bottom)



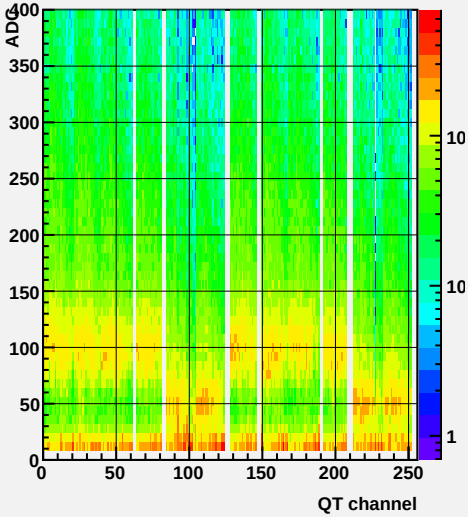
channel multiplicity



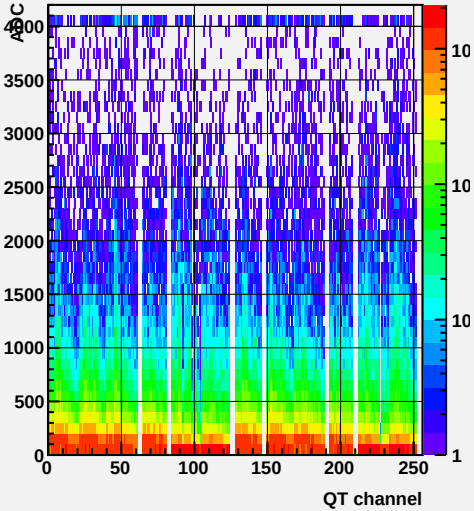
channel vs. rdo



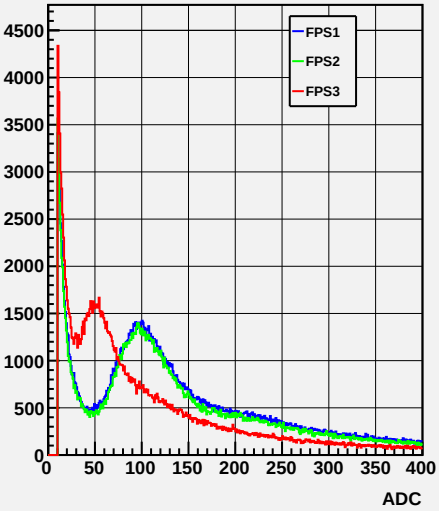
ADC vs. channel



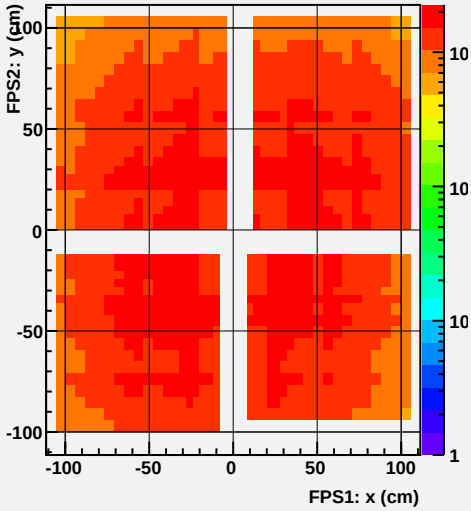
ADC vs. channel

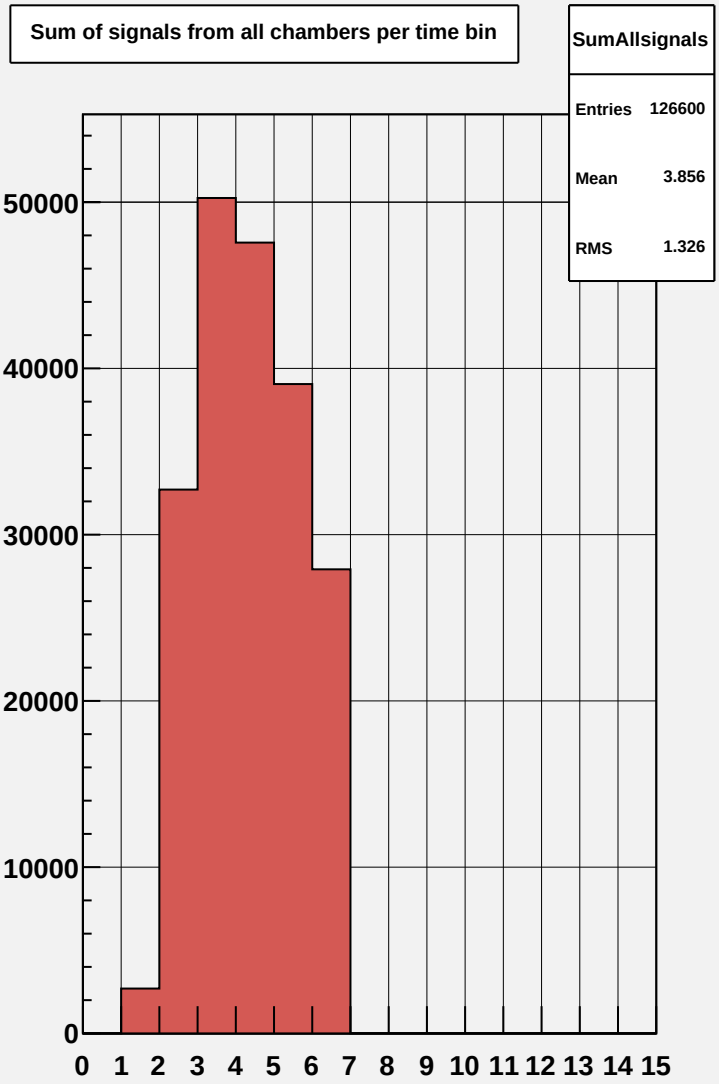


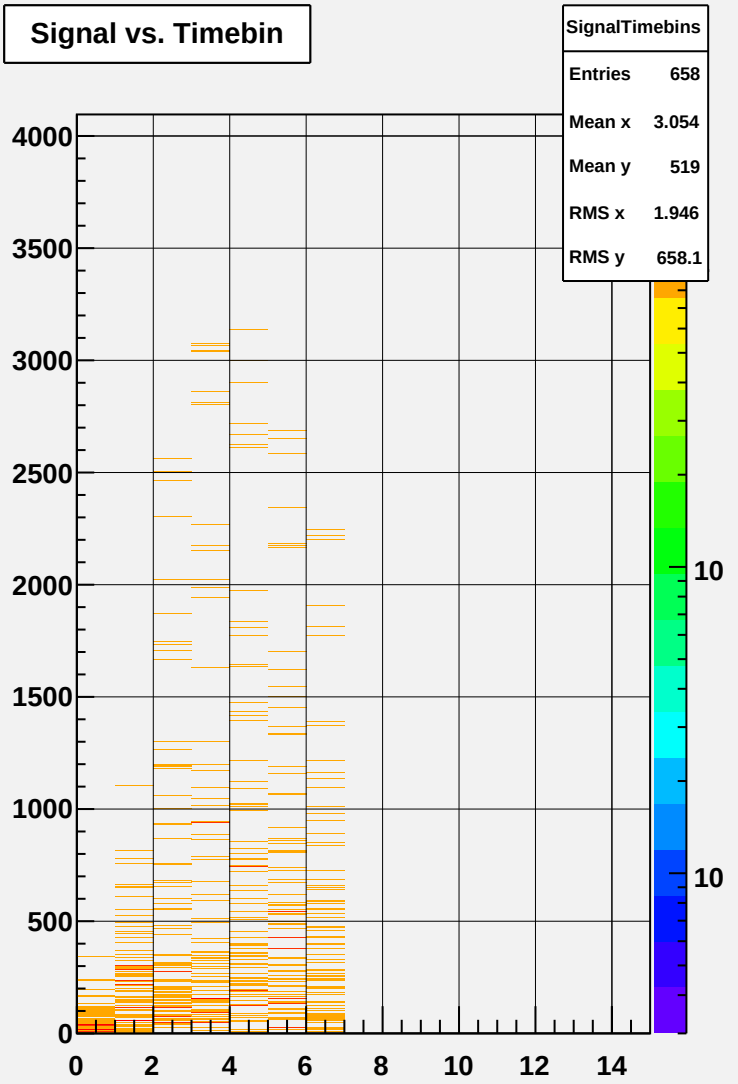
ADC spectra

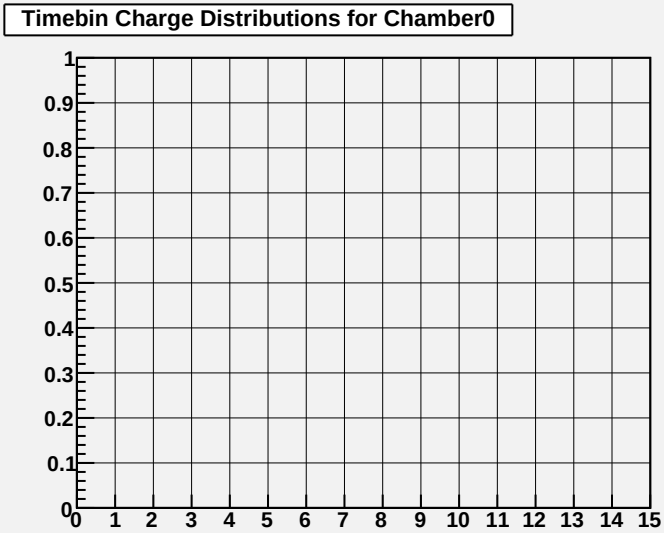


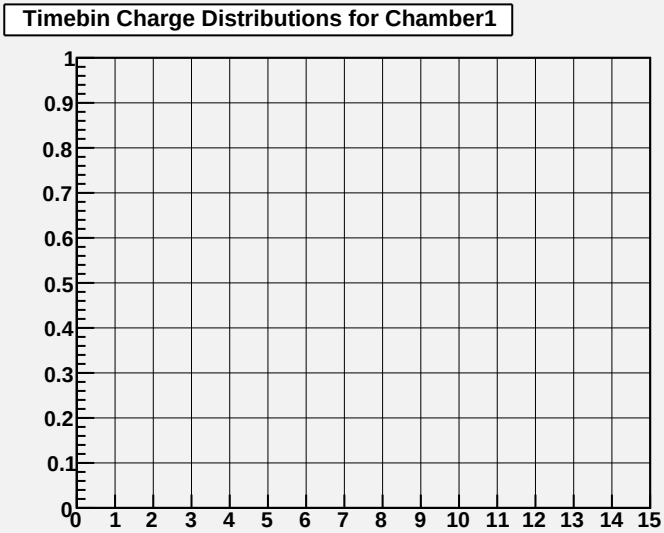
hits in layers 1 & 2

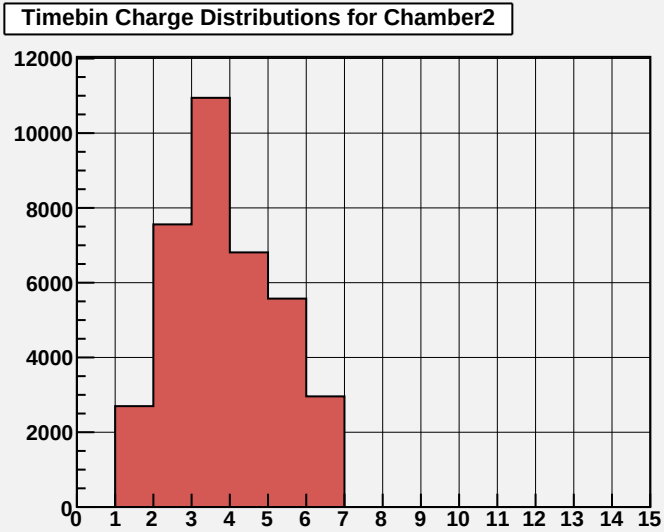


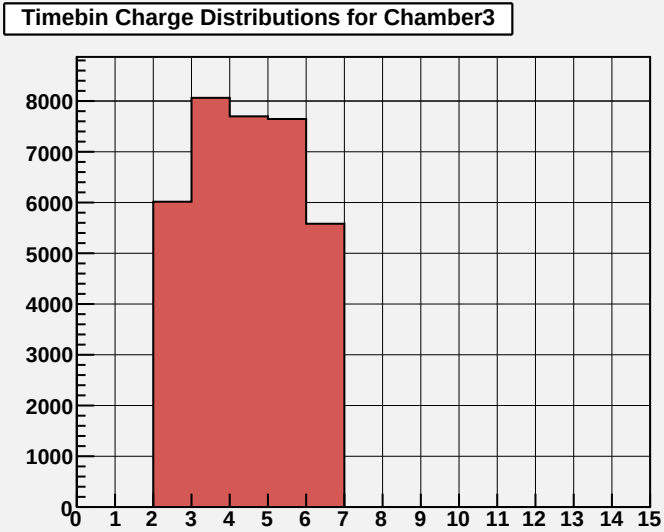

Sum of signals from all chambers per time bin
SumAllsignals
Entries 126600
Mean 3.856
RMS 1.326
50000
40000
30000
20000
10000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

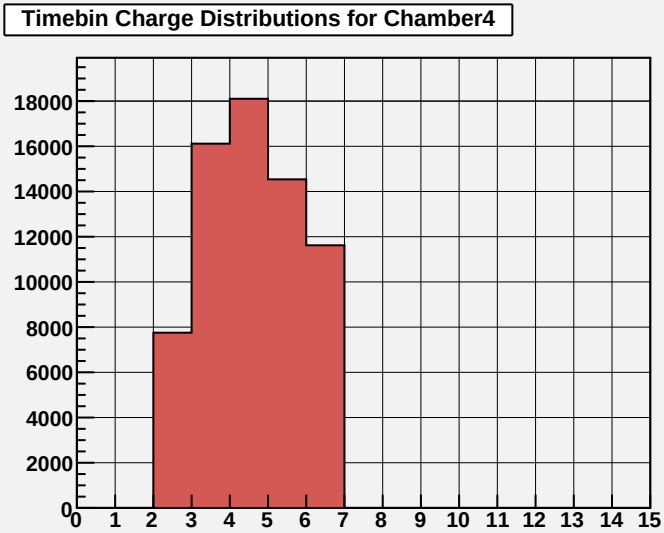

Signal vs. Timebin
SignalTimebins
Entries 658
Mean x 3.054
Mean y 519
RMS x 1.946
RMS y 658.1
4000
3500
3000
2500
2000
1500
1000
500
0
0 2 4 6 8 10 12 14
10
10

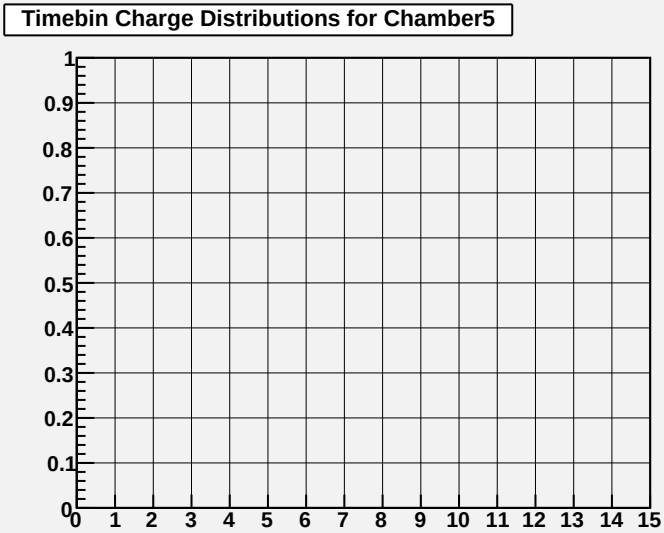

Timebin Charge Distributions for Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

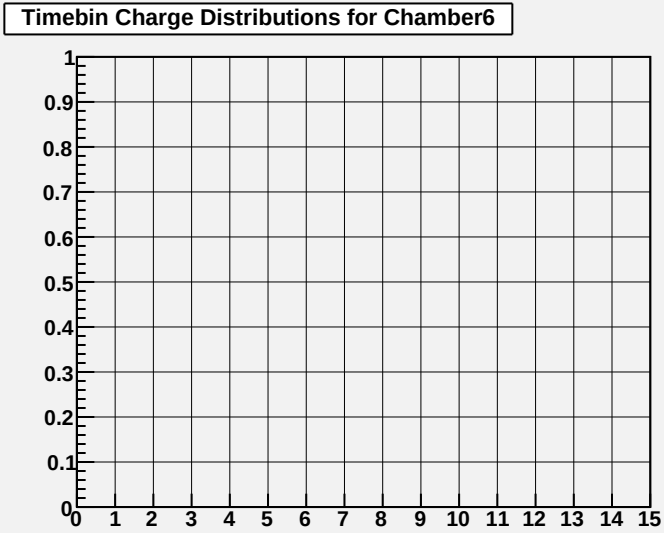

Timebin Charge Distributions for Chamber1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

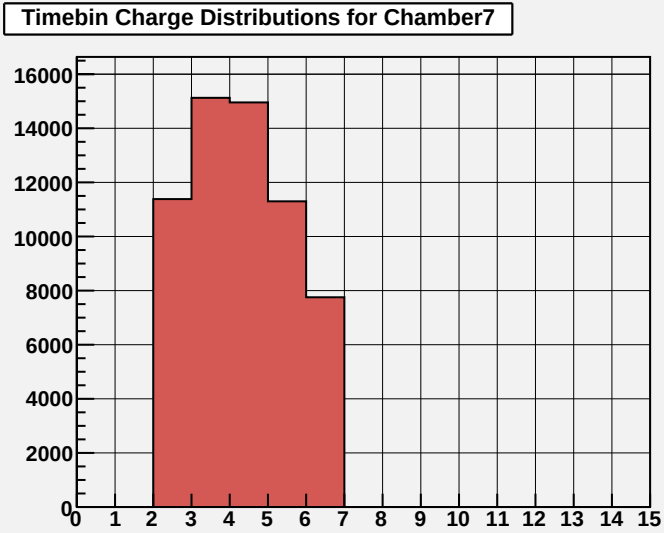

Timebin Charge Distributions for Chamber2
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

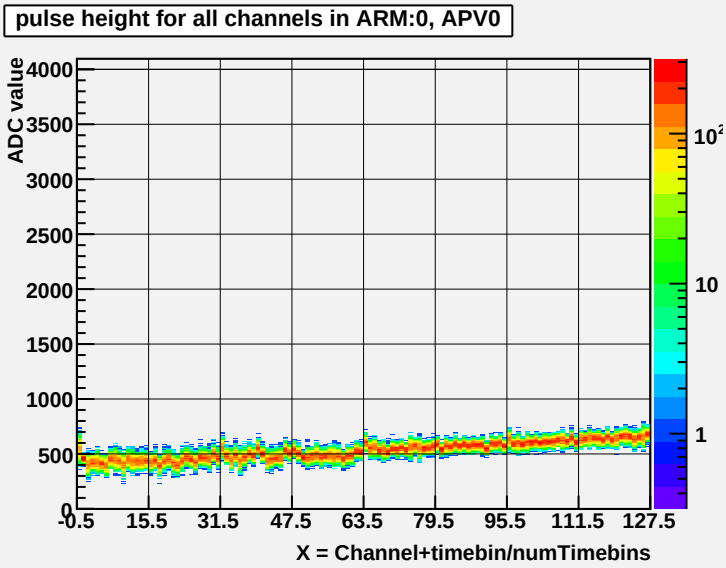

Timebin Charge Distributions for Chamber3
8000
7000
6000
5000
4000
3000
2000
1000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

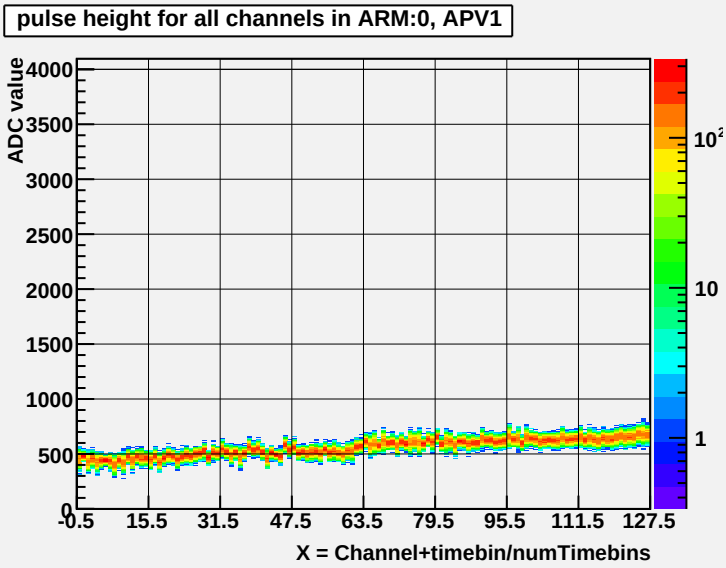

Timebin Charge Distributions for Chamber4
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

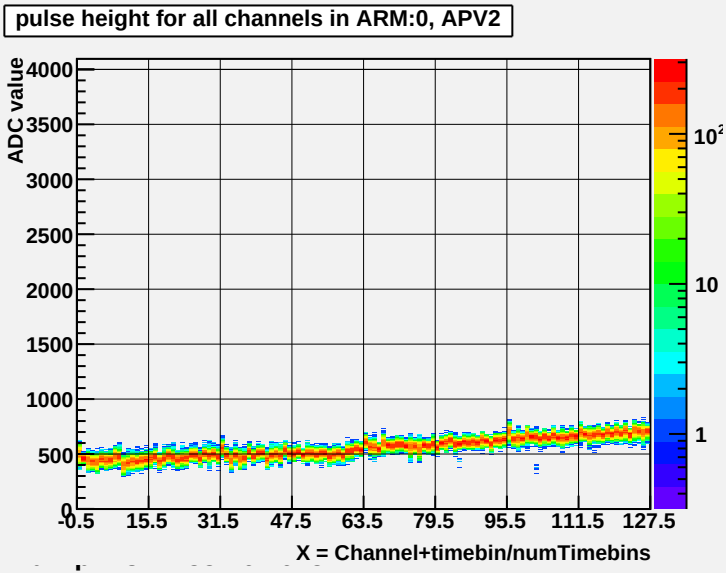

Timebin Charge Distributions for Chamber5
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

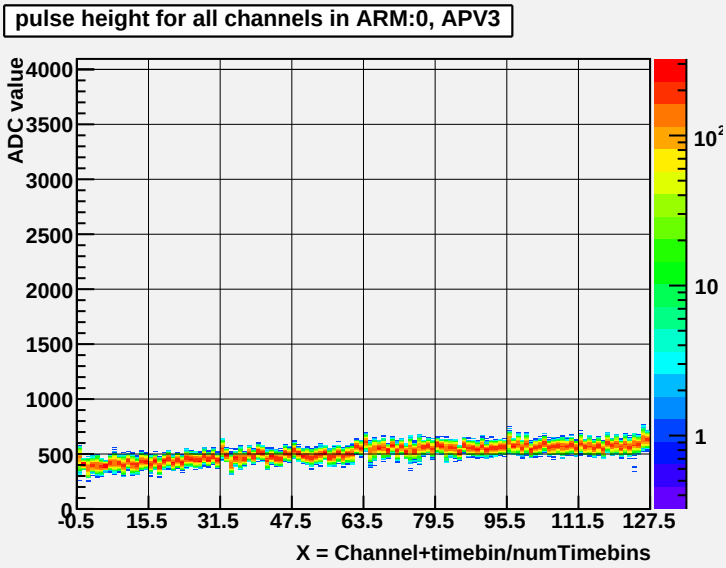

Timebin Charge Distributions for Chamber6
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

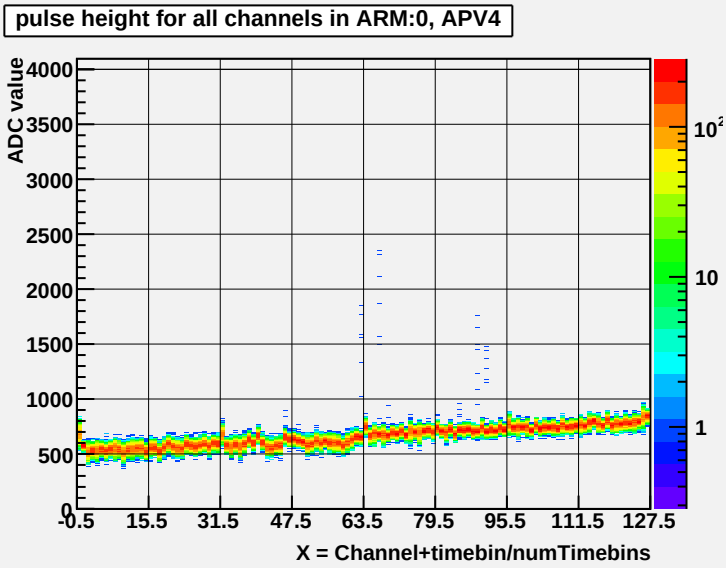

Timebin Charge Distributions for Chamber7
16000
14000
12000
10000
8000
6000
4000
2000
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

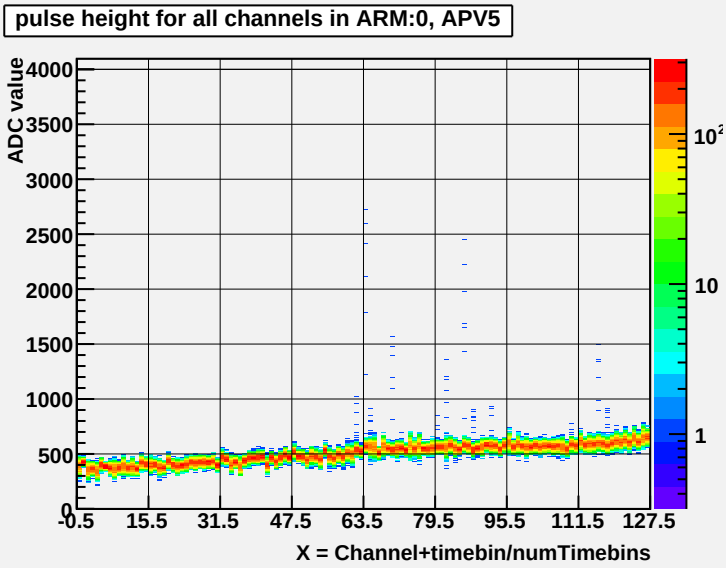

pulse height for all channels in ARM:0, APV0
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

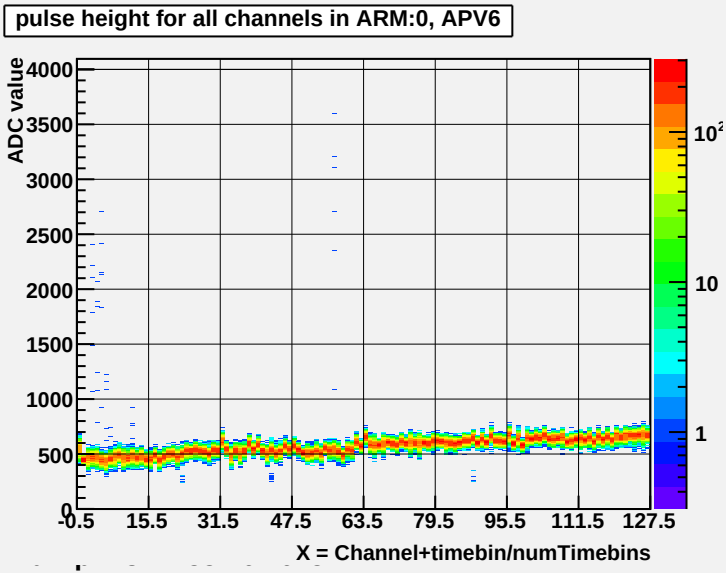

pulse height for all channels in ARM:0, APV1
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

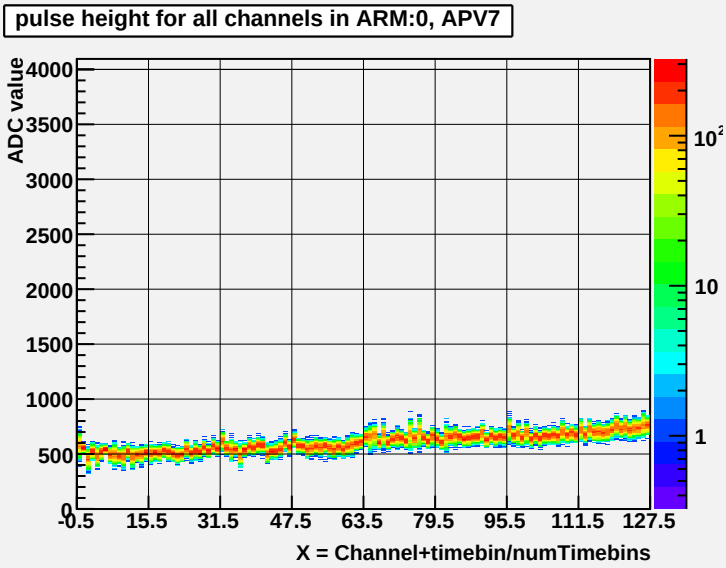

pulse height for all channels in ARM:0, APV2
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

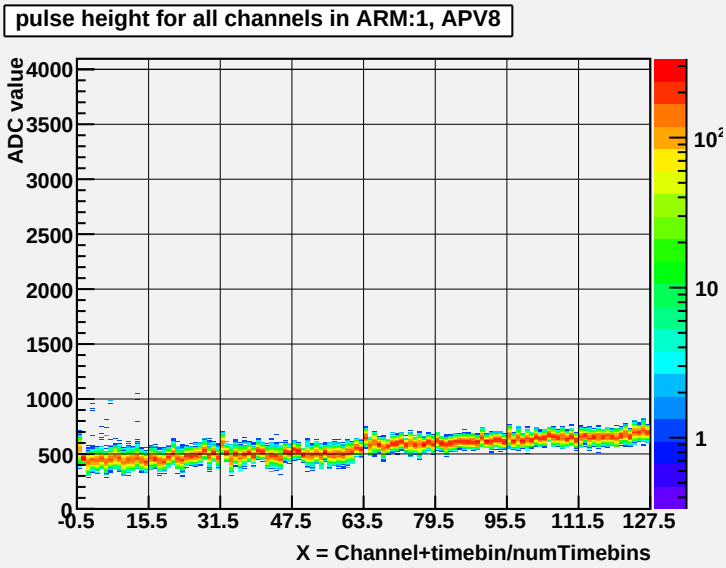

pulse height for all channels in ARM:0, APV3
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

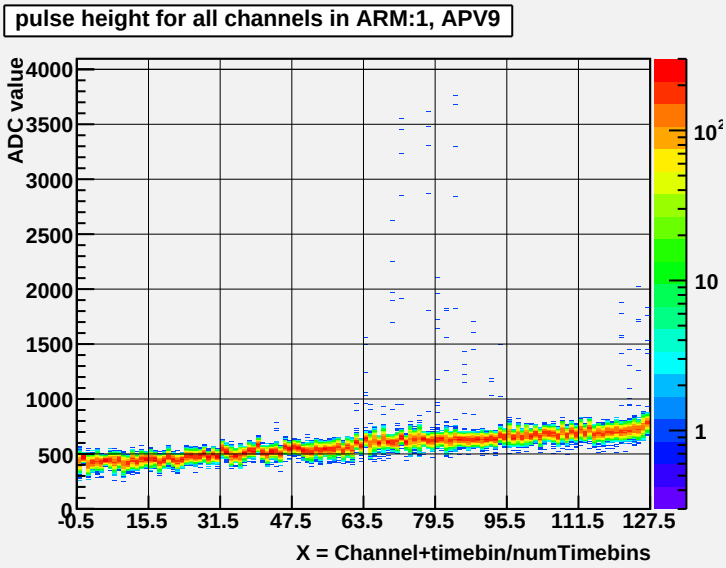

pulse height for all channels in ARM:0, APV4
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

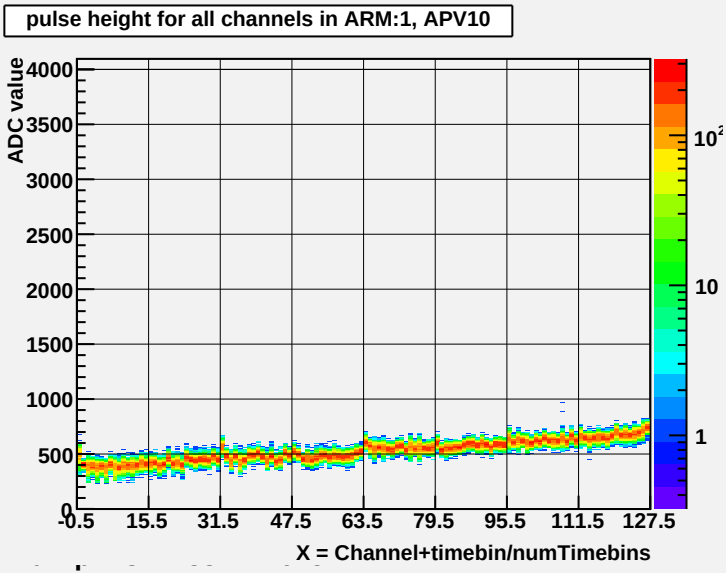

pulse height for all channels in ARM:0, APV5
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

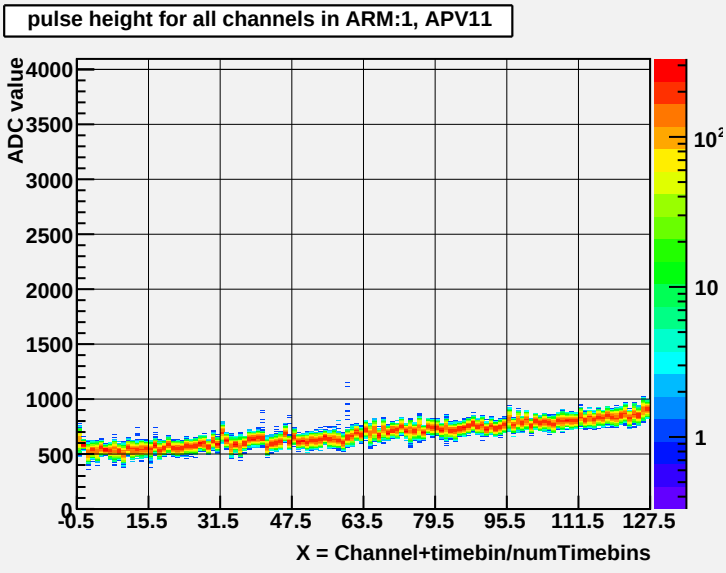

pulse height for all channels in ARM:0, APV6
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

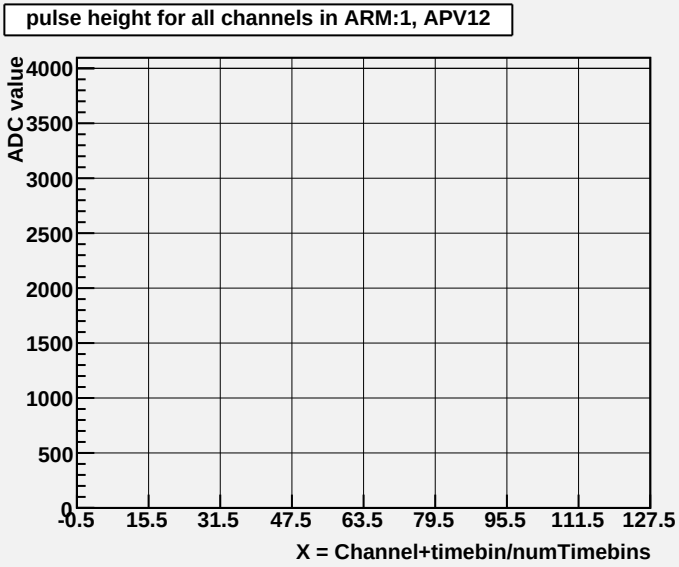

pulse height for all channels in ARM:0, APV7
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

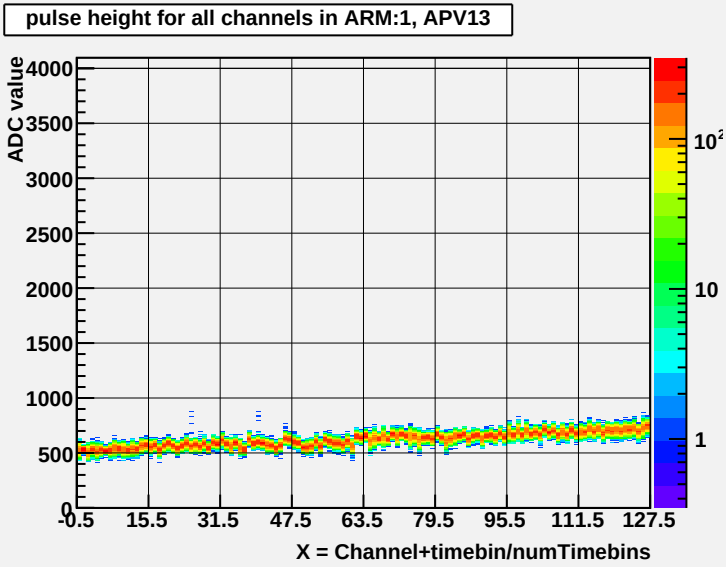

pulse height for all channels in ARM:1, APV8
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

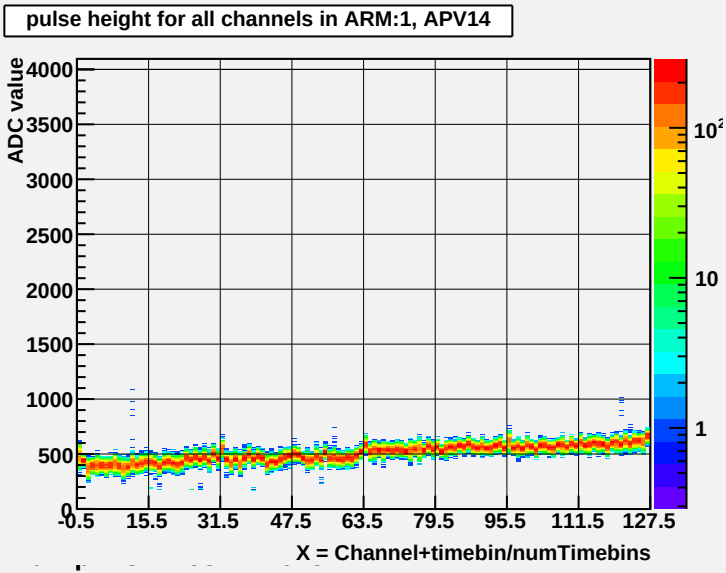

pulse height for all channels in ARM:1, APV9
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

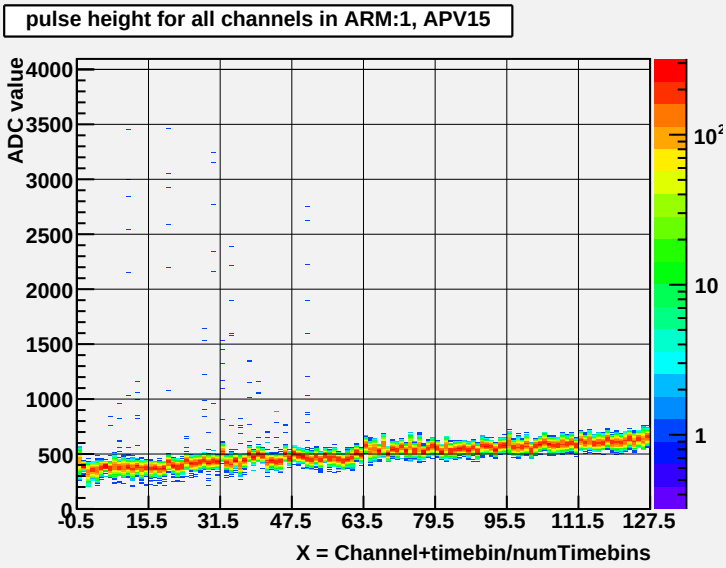

pulse height for all channels in ARM:1, APV10
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

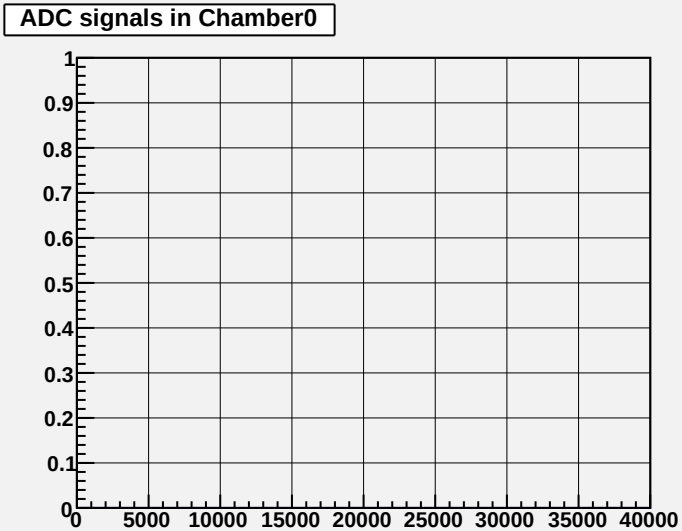

pulse height for all channels in ARM:1, APV11
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

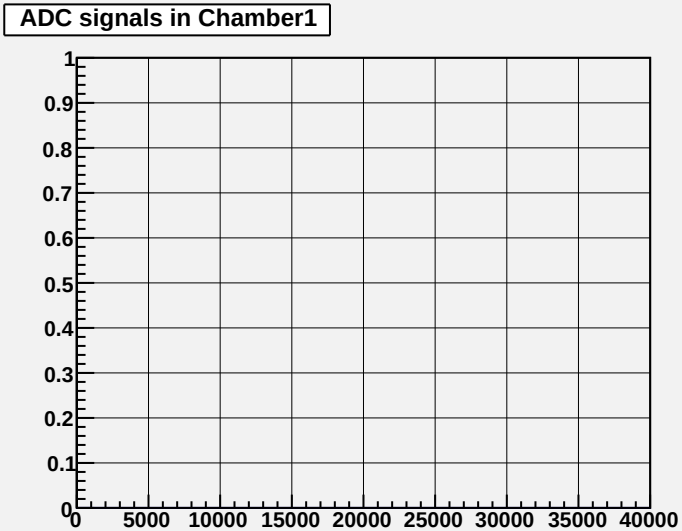

pulse height for all channels in ARM:1, APV12
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins

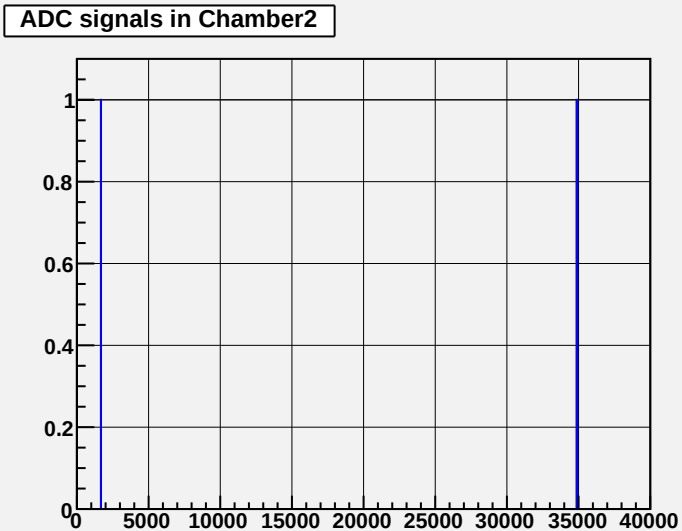

pulse height for all channels in ARM:1, APV13
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1

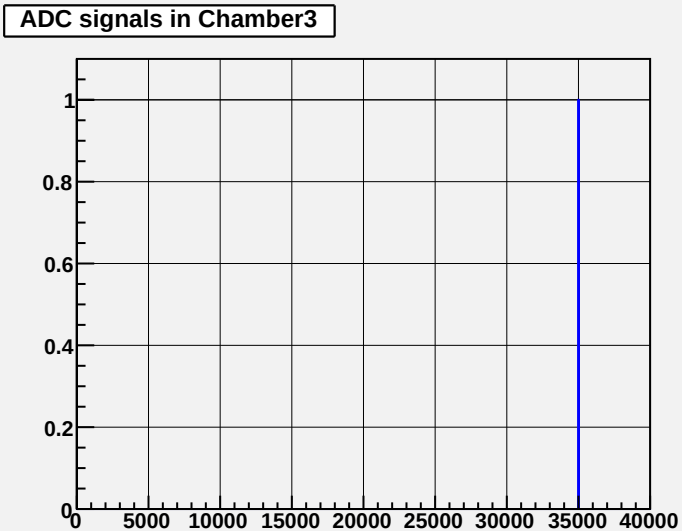

pulse height for all channels in ARM:1, APV14
ADC value
4000
3500
3000
2500
2000
1500
1000
500
0
-0.5
15.5
31.5
47.5
63.5
79.5
95.5
111.5
127.5
X = Channel+timebin/numTimebins
10²
10
1


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

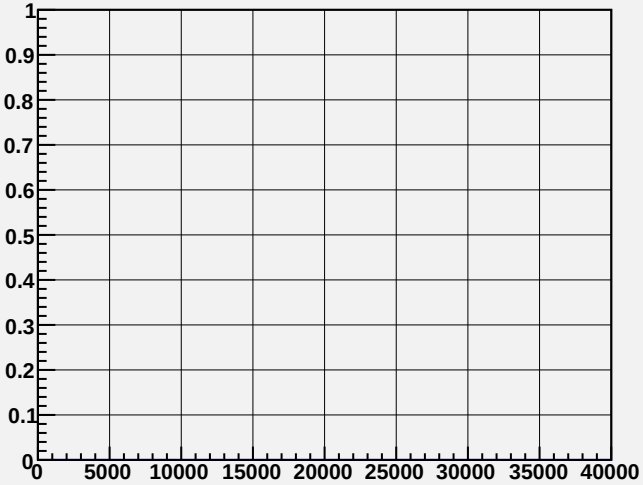

ADC signals in Chamber0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
5000
10000
15000
20000
25000
30000
35000
40000


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

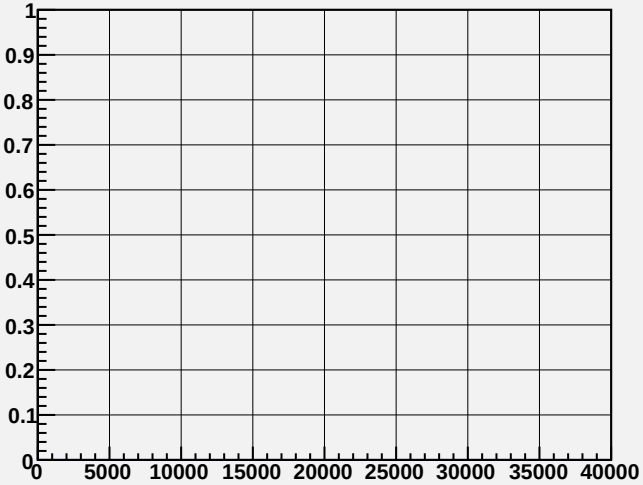

ADC signals in Chamber2
1
0.8
0.6
0.4
0.2
0
0
5000
10000
15000
20000
25000
30000
35000
40000


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

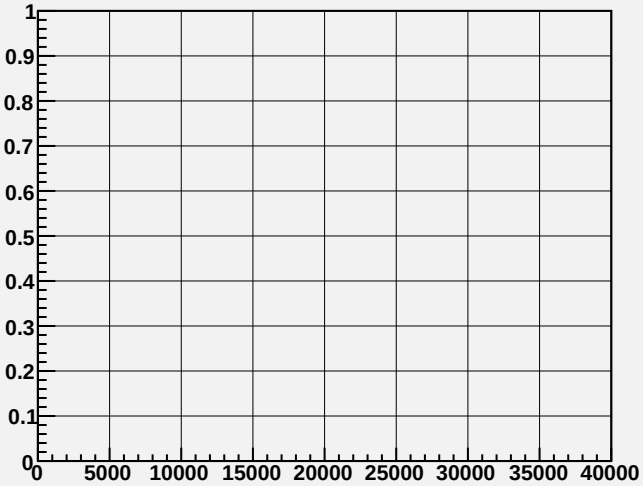
ADC signals in Chamber4



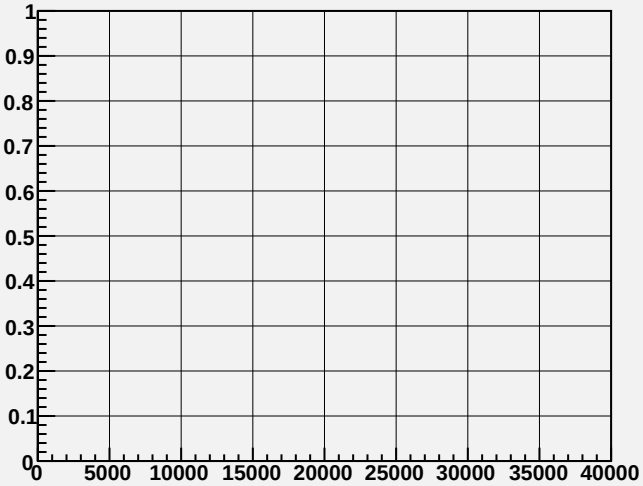
ADC signals in Chamber5

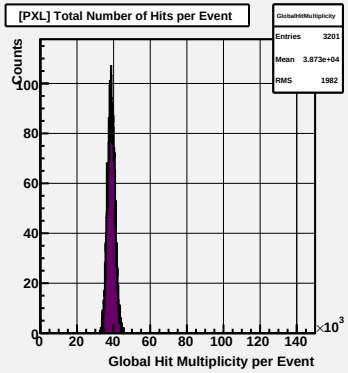


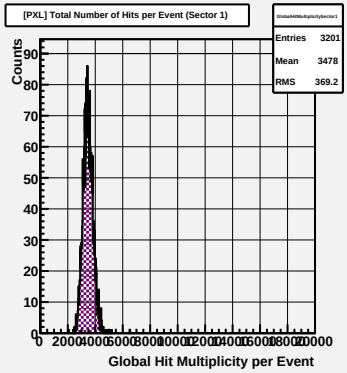
ADC signals in Chamber6

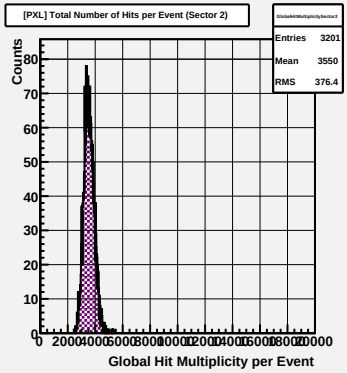


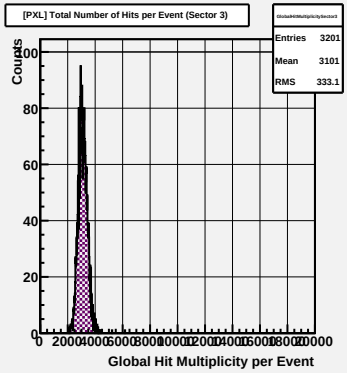
ADC signals in Chamber7

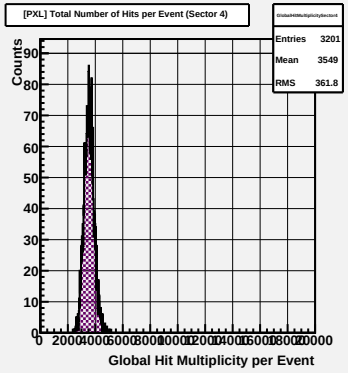


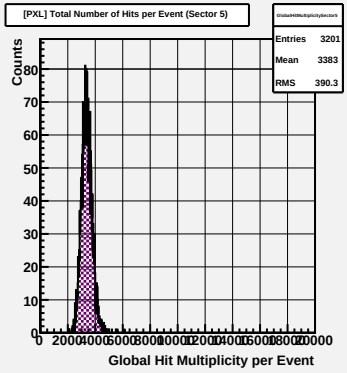

[PXL] Total Number of Hits per Event
GlobalHitMultiplicity
Entries 3201
Mean 3.873e+04
RMS 1982
Counts
Global Hit Multiplicity per Event
×10^3

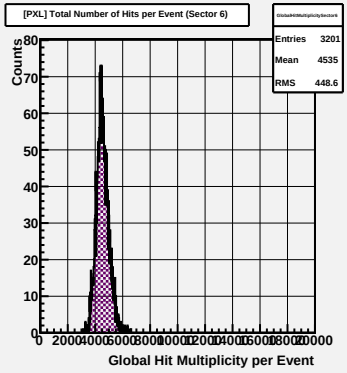

[PXL] Total Number of Hits per Event (Sector 1)
Entries 3201
Mean 3478
RMS 369.2
Counts
Global Hit Multiplicity per Event

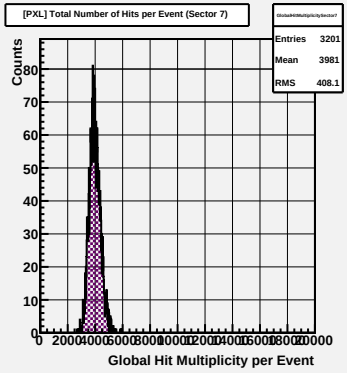

[PXL] Total Number of Hits per Event (Sector 2)
Entries 3201
Mean 3550
RMS 376.4
Counts
Global Hit Multiplicity per Event

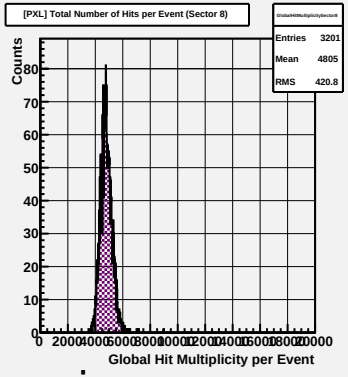

[PXL] Total Number of Hits per Event (Sector 3)
Entries 3201
Mean 3101
RMS 333.1
Counts
Global Hit Multiplicity per Event

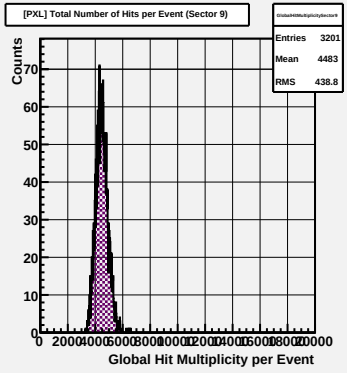

[PXL] Total Number of Hits per Event (Sector 4)
Entries 3201
Mean 3549
RMS 361.8
Counts
Global Hit Multiplicity per Event

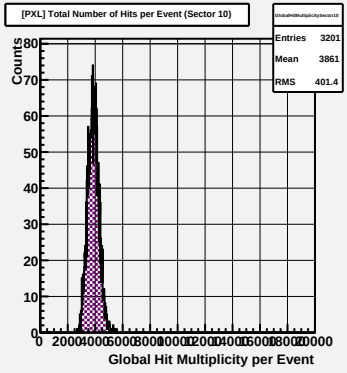

[PXL] Total Number of Hits per Event (Sector 5)
Entries 3201
Mean 3383
RMS 390.3
Counts
Global Hit Multiplicity per Event

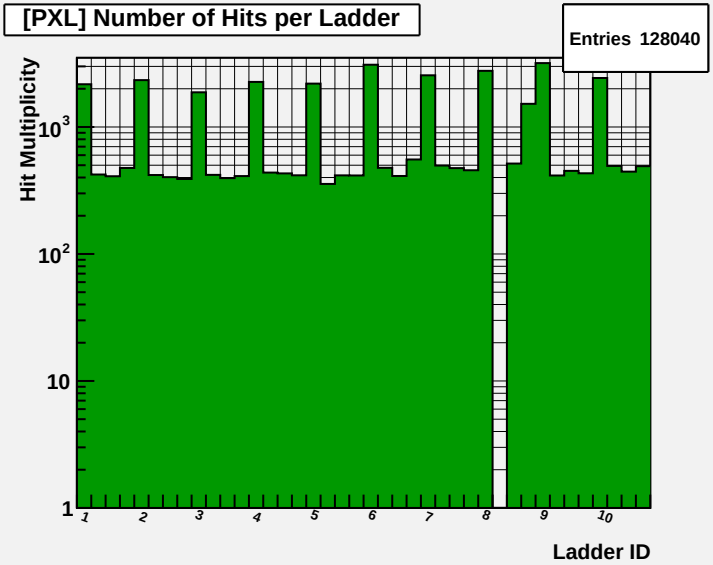

[PXL] Total Number of Hits per Event (Sector 6)
Entries 3201
Mean 4535
RMS 448.6
Counts
Global Hit Multiplicity per Event

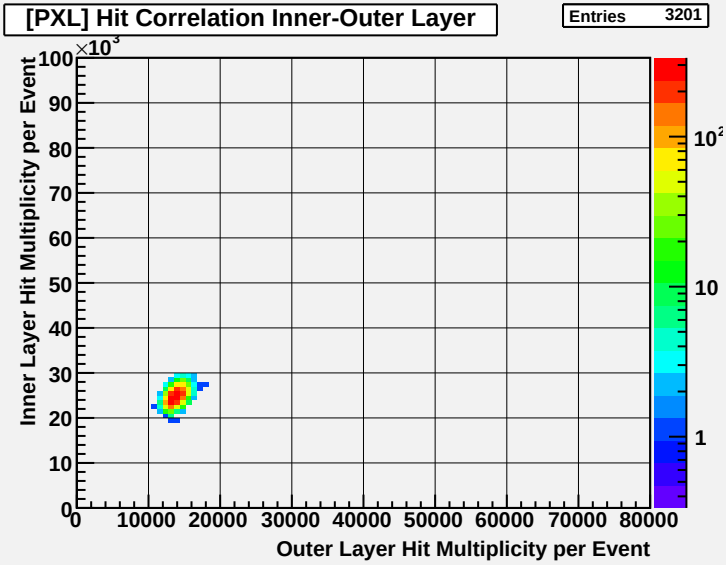

[PXL] Total Number of Hits per Event (Sector 7)
Entries 3201
Mean 3981
RMS 408.1
Counts
Global Hit Multiplicity per Event

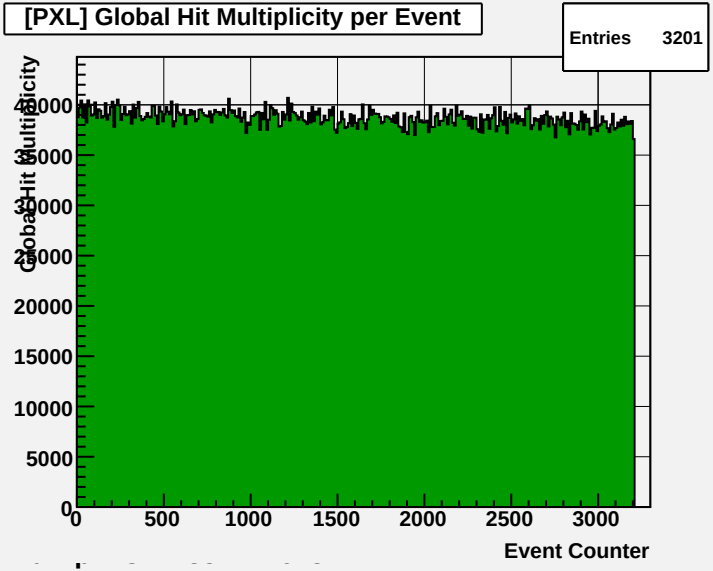

[PXL] Total Number of Hits per Event (Sector 8)
Entries 3201
Mean 4805
RMS 420.8
Counts
Global Hit Multiplicity per Event

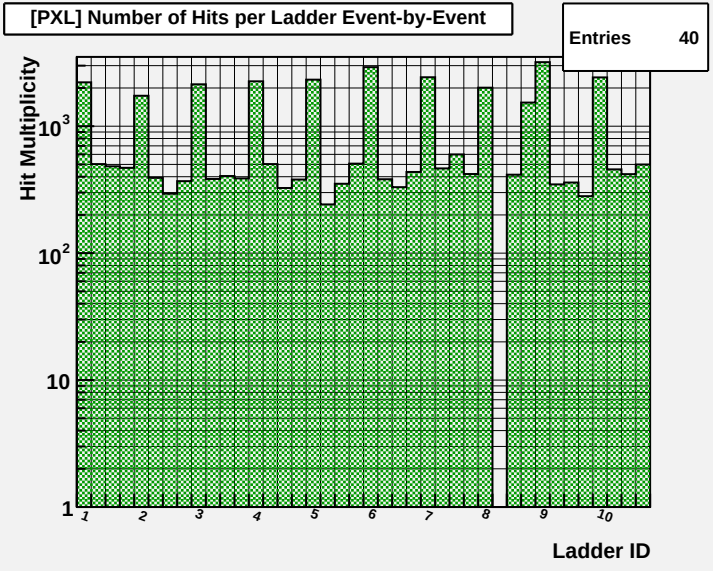

[PXL] Total Number of Hits per Event (Sector 9)
Entries 3201
Mean 4483
RMS 438.8
Counts
Global Hit Multiplicity per Event

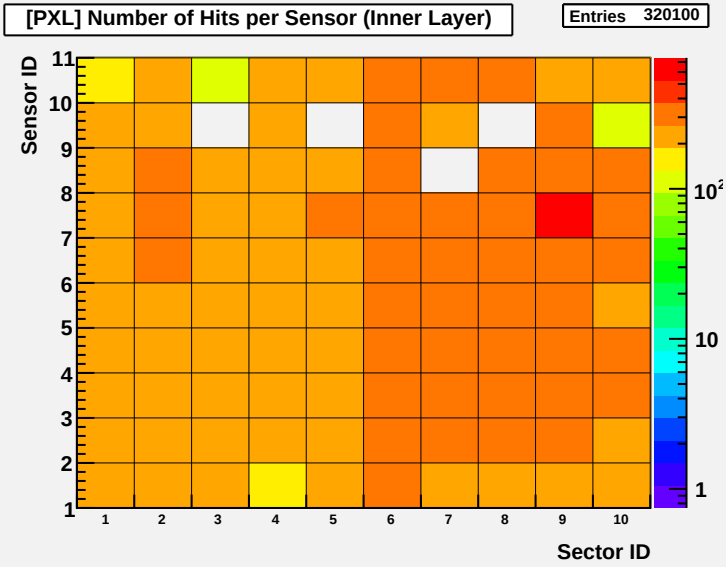

[PXL] Total Number of Hits per Event (Sector 10)
Entries 3201
Mean 3861
RMS 401.4
Counts
Global Hit Multiplicity per Event

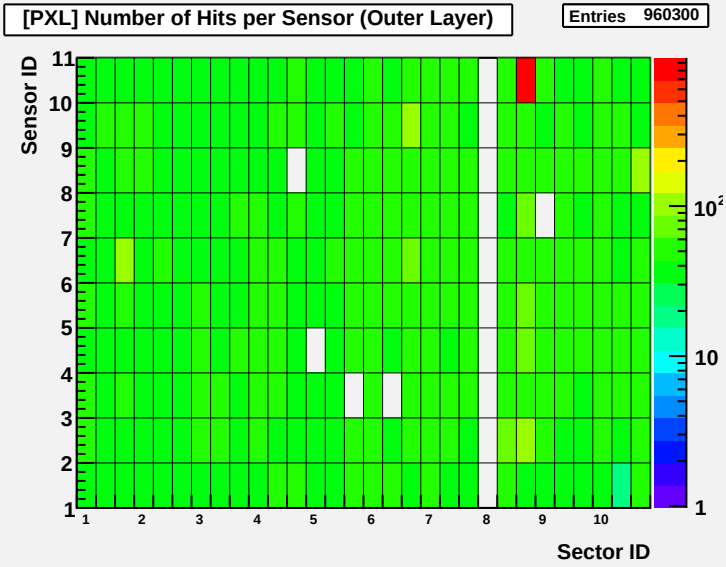

[PXL] Number of Hits per Ladder
Entries 128040
Hit Multiplicity
Ladder ID

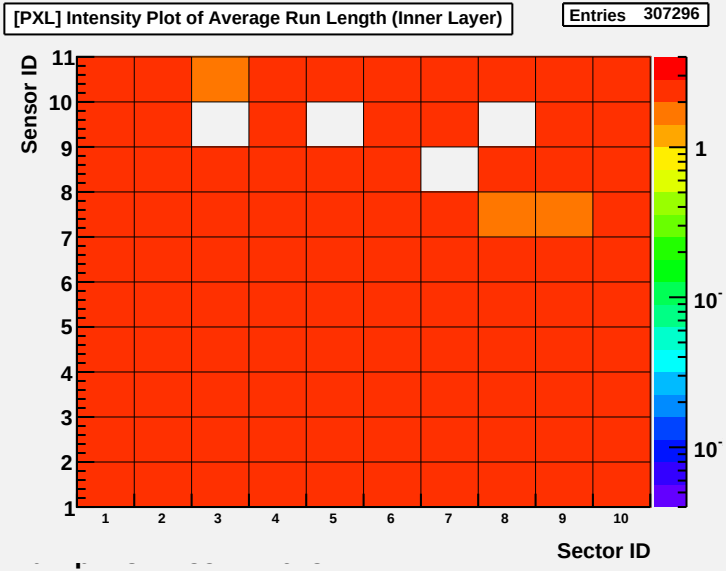

[PXL] Hit Correlation Inner-Outer Layer
Entries 3201
Inner Layer Hit Multiplicity per Event
Outer Layer Hit Multiplicity per Event

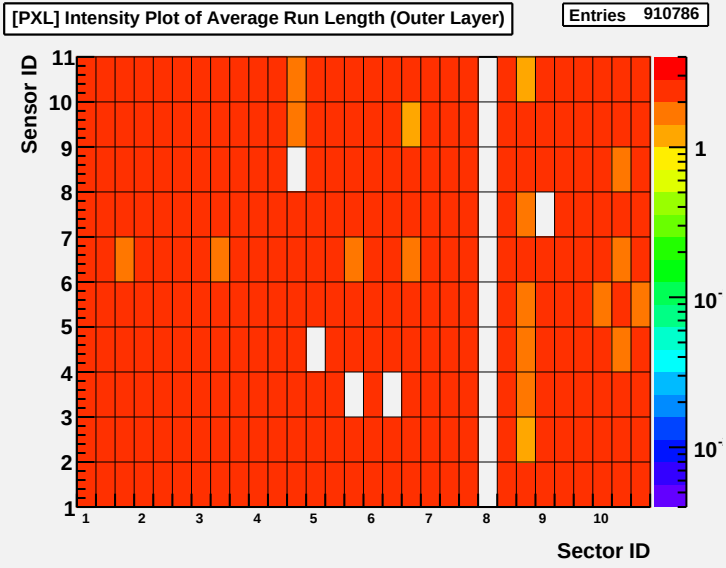

[PXL] Global Hit Multiplicity per Event
Entries 3201
Global Hit Multiplicity
Event Counter

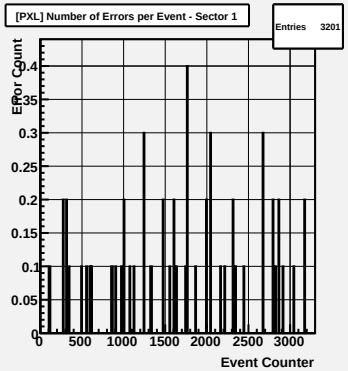

[PXL] Number of Hits per Ladder Event-by-Event
Entries 40
Hit Multiplicity
Ladder ID

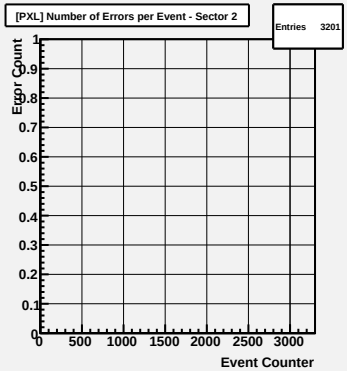

[PXL] Number of Hits per Sensor (Inner Layer)
Entries 320100
Sensor ID
Sector ID

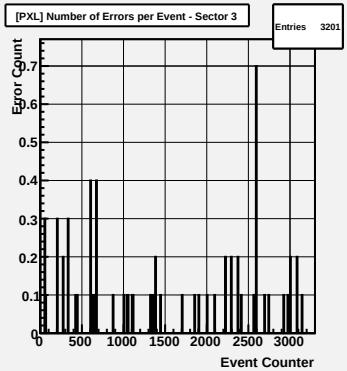

[PXL] Number of Hits per Sensor (Outer Layer)
Entries 960300
Sensor ID
Sector ID

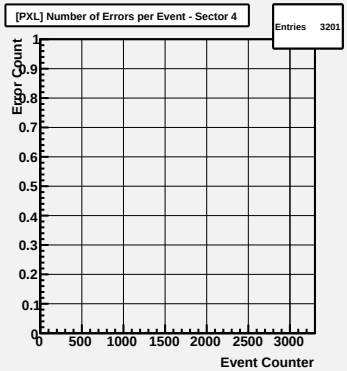

[PXL] Intensity Plot of Average Run Length (Inner Layer)
Entries 307296
Sensor ID
Sector ID

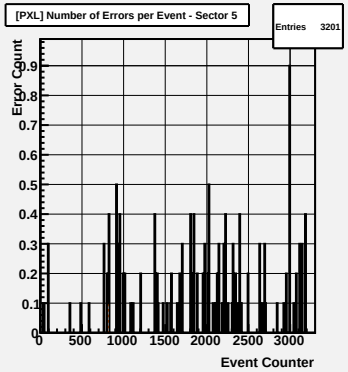

[PXL] Intensity Plot of Average Run Length (Outer Layer)
Entries 910786
Sensor ID
Sector ID

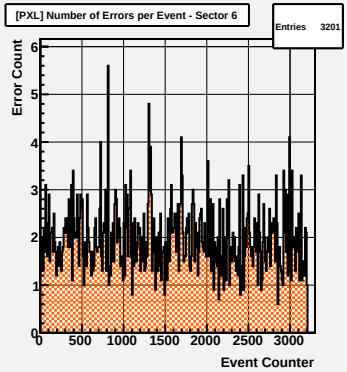

[PXL] Number of Errors per Event - Sector 1
Entries 3201
Error Count
Event Counter

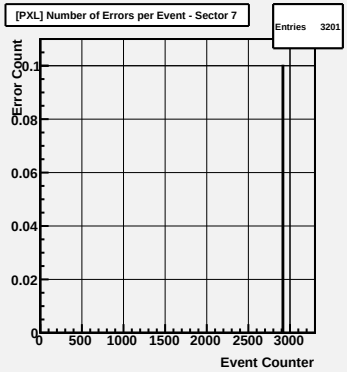

[PXL] Number of Errors per Event - Sector 2
Entries 3201
Error Count
Event Counter

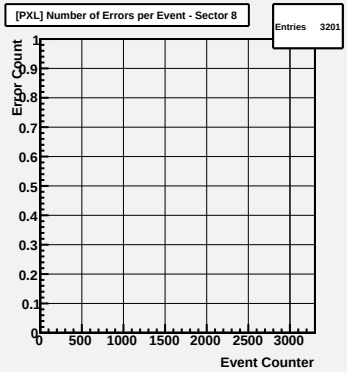

[PXL] Number of Errors per Event - Sector 3
Entries 3201
Error Count
Event Counter

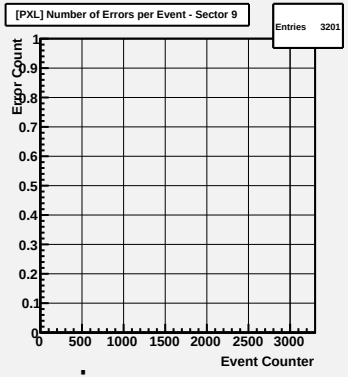

[PXL] Number of Errors per Event - Sector 4
Entries 3201
Error Count
Event Counter

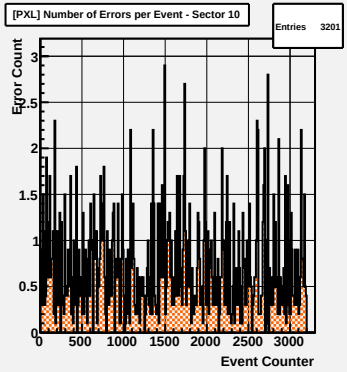

[PXL] Number of Errors per Event - Sector 5
Entries 3201
Error Count
Event Counter

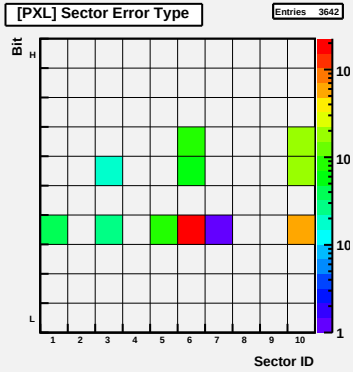

[PXL] Number of Errors per Event - Sector 6
Entries 3201
Error Count
Event Counter

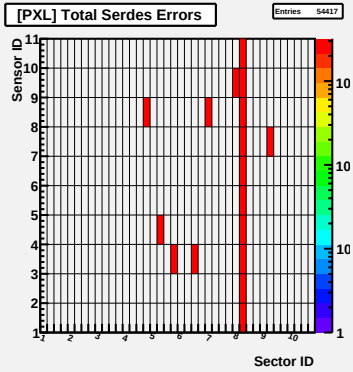

[PXL] Number of Errors per Event - Sector 7
Entries 3201
Error Count
Event Counter

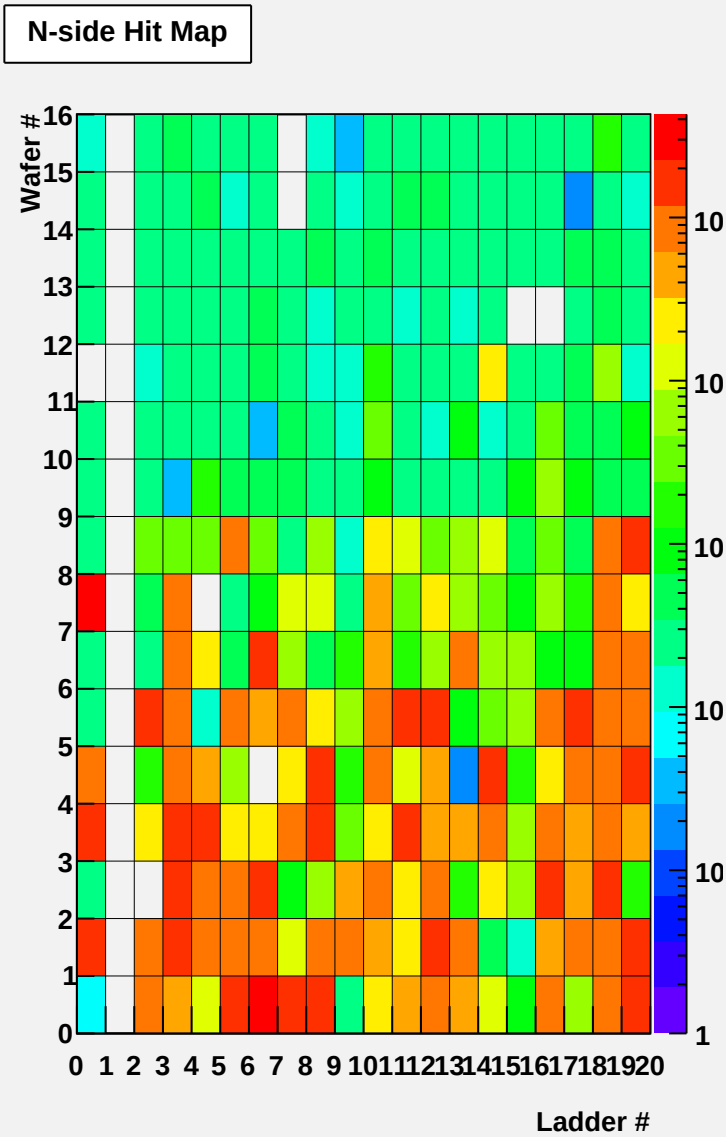

[PXL] Number of Errors per Event - Sector 8
Entries 3201
Error Count
Event Counter

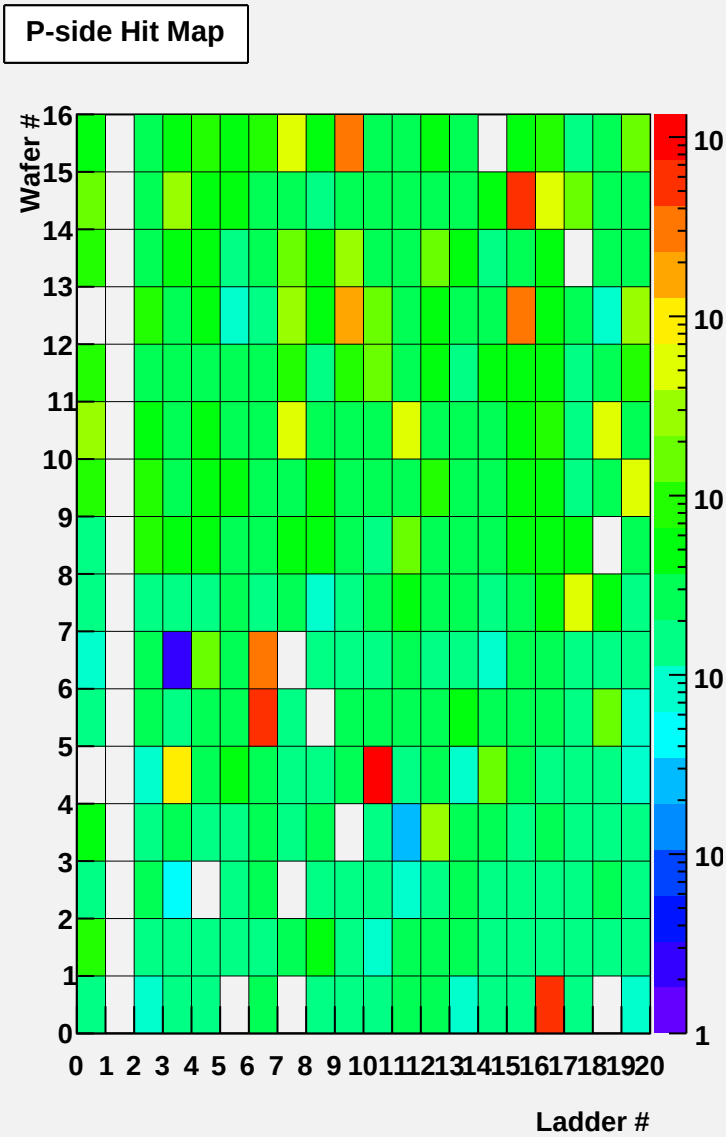

[PXL] Number of Errors per Event - Sector 9
Entries 3201
Error Count
Event Counter

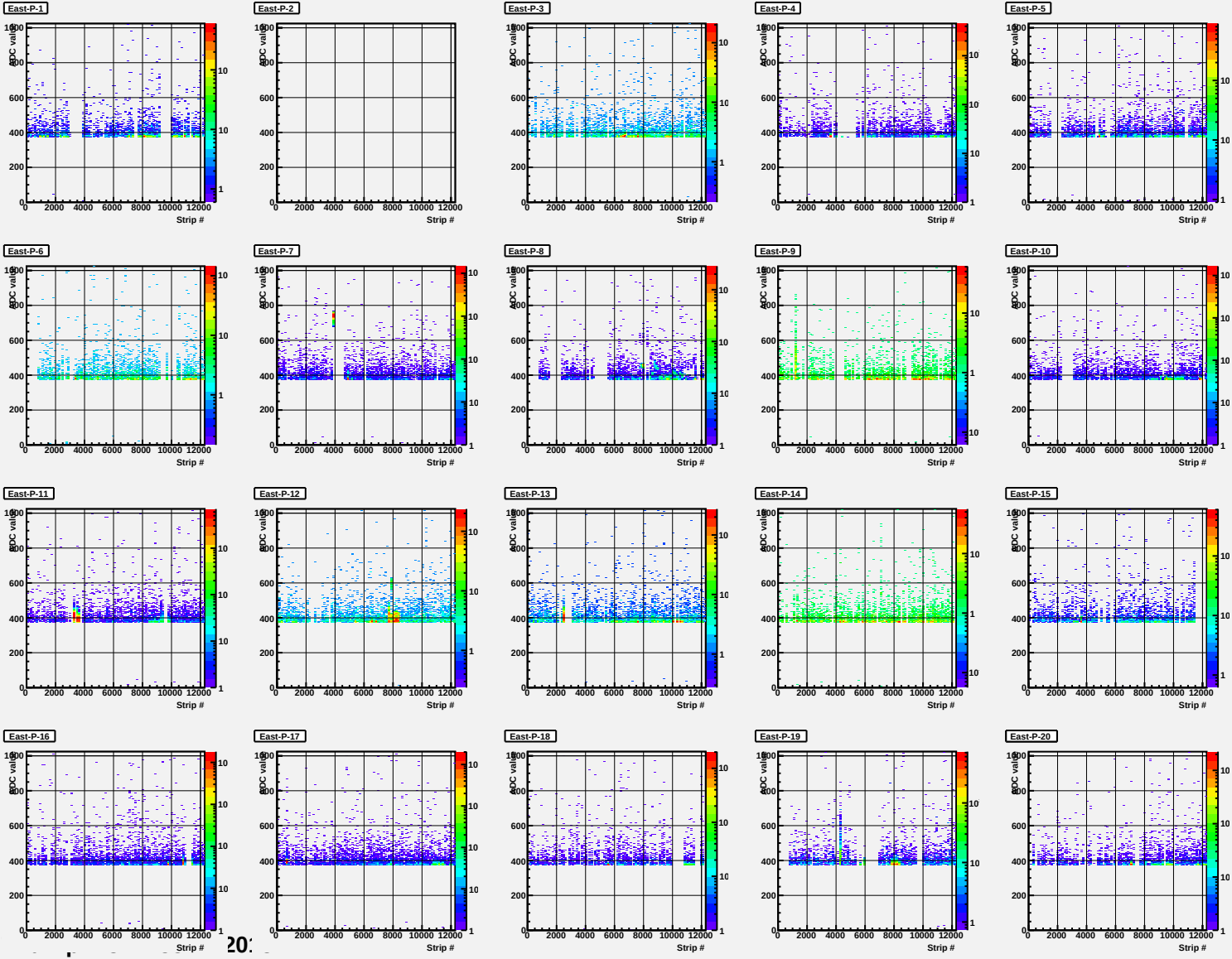

[PXL] Number of Errors per Event - Sector 10
Entries 3201
Error Count
Event Counter


[PXL] Sector Error Type
Entries 3642
Bit
H
L
Sector ID

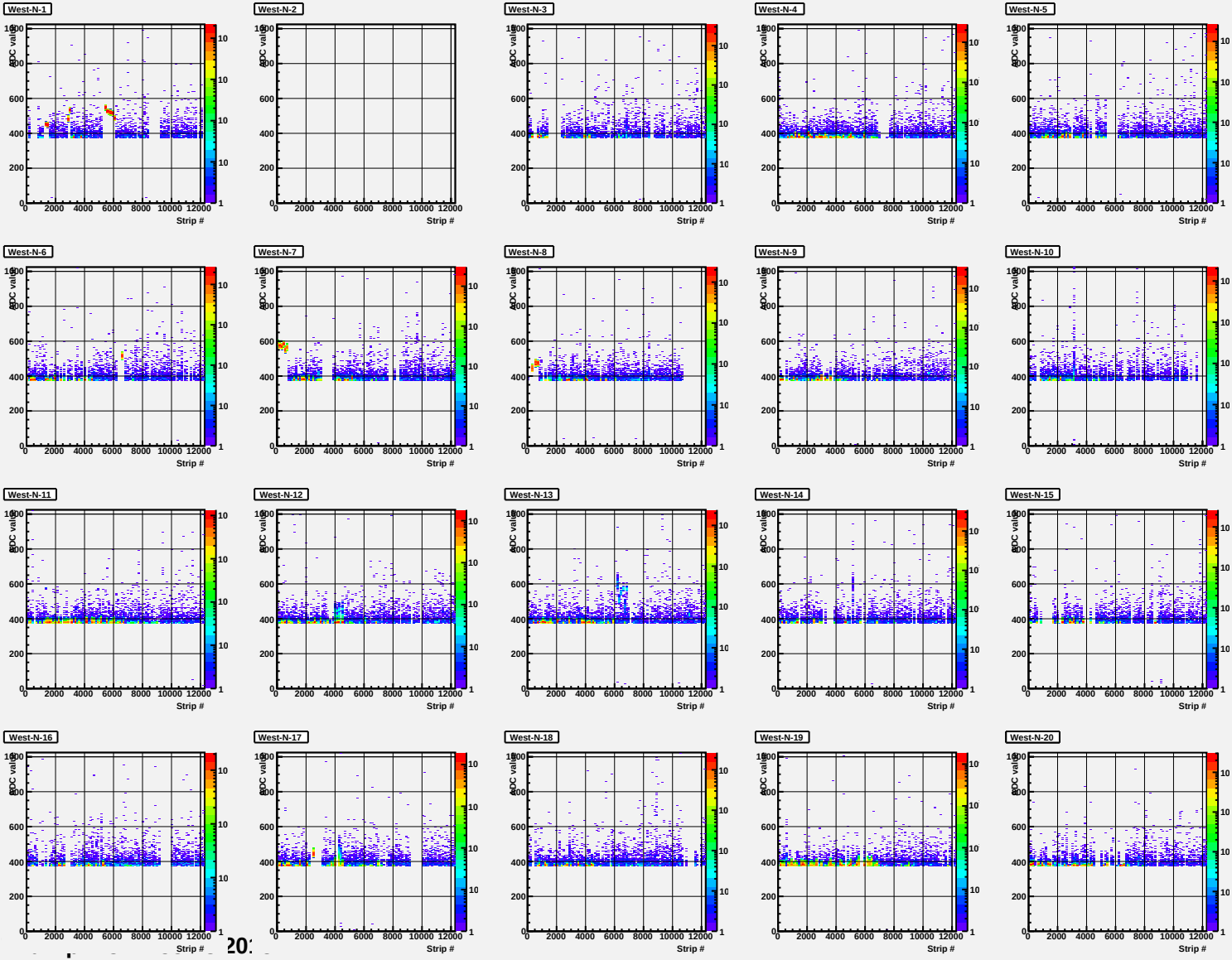

[PXL] Total Serdes Errors
Entries 54417
Sensor ID
Sector ID

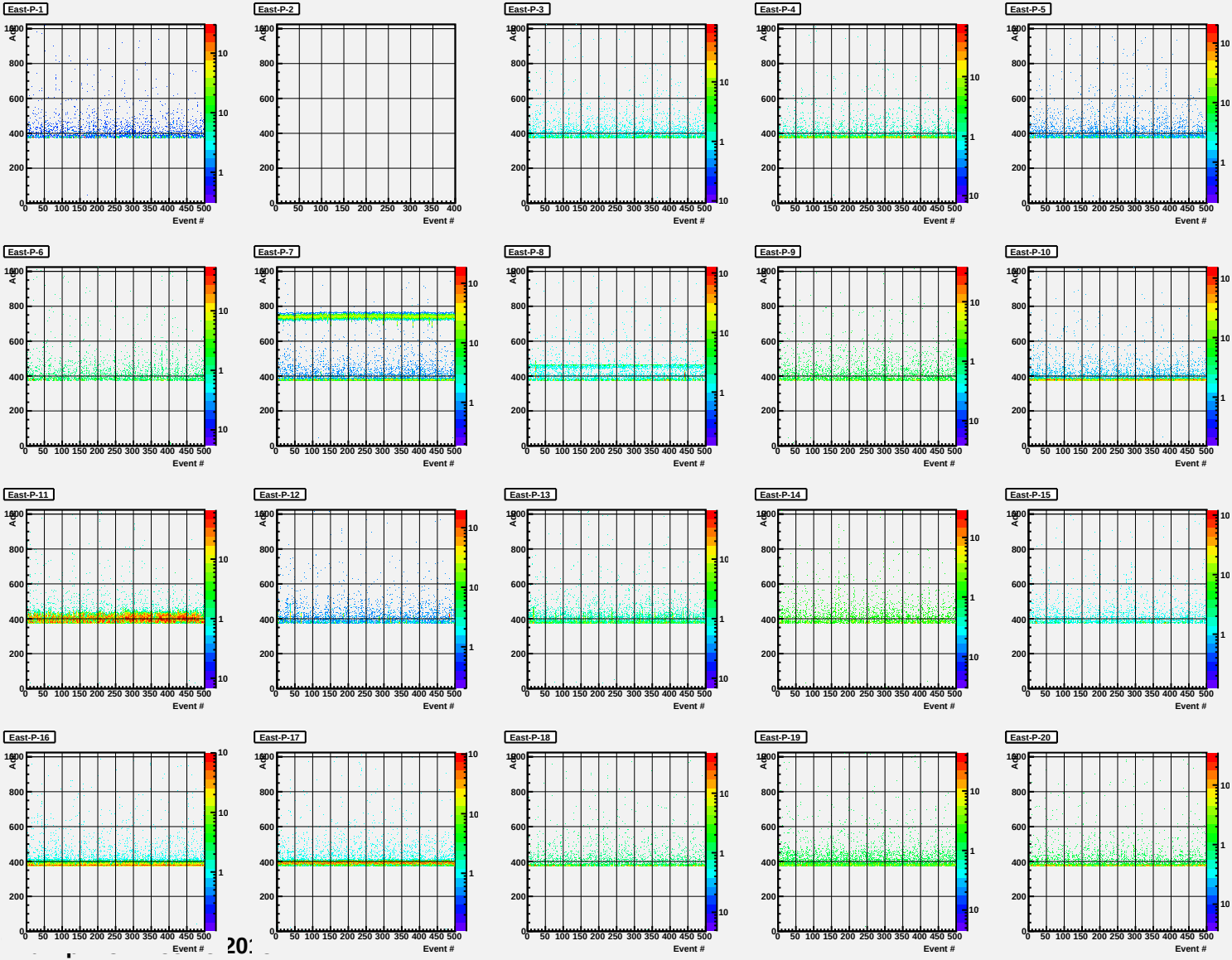

N-side Hit Map
Wafer #
Ladder #
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1
10

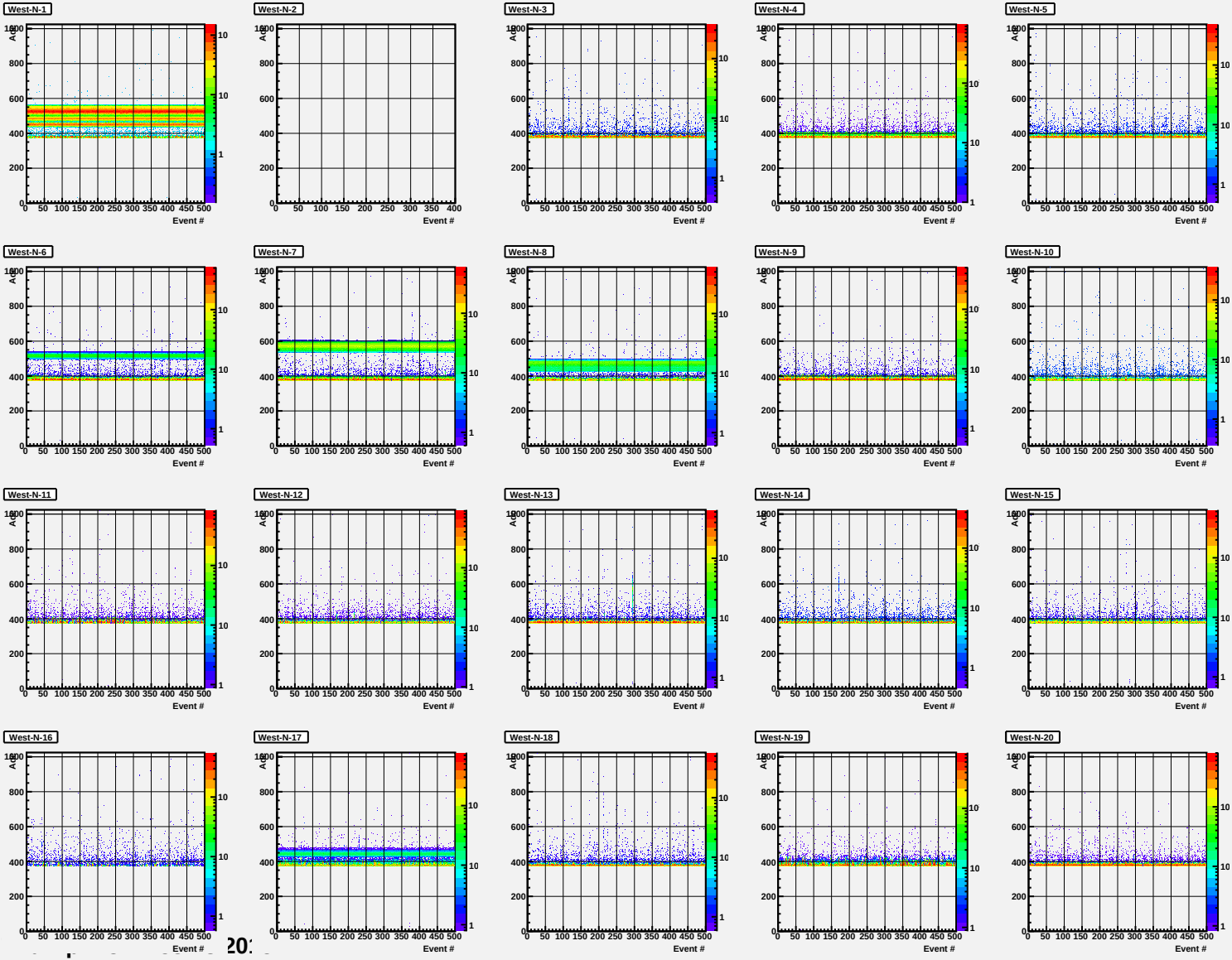

P-side Hit Map
Wafer #
Ladder #
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1
10

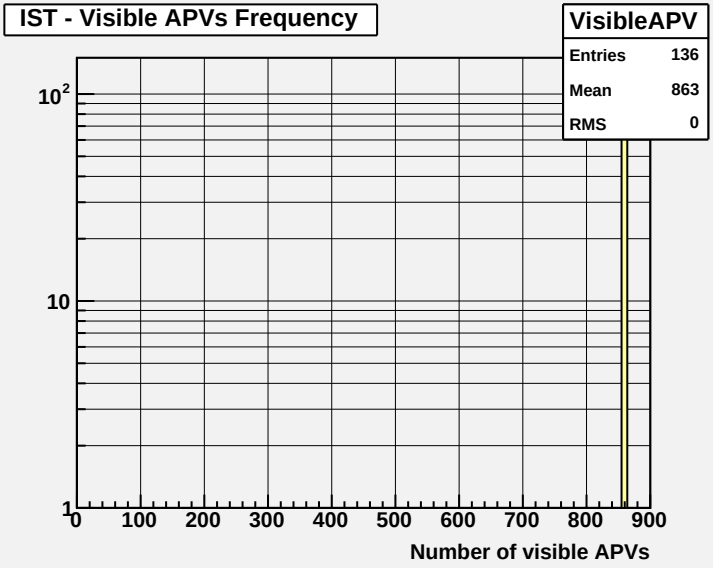

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
ADC value
Strip #

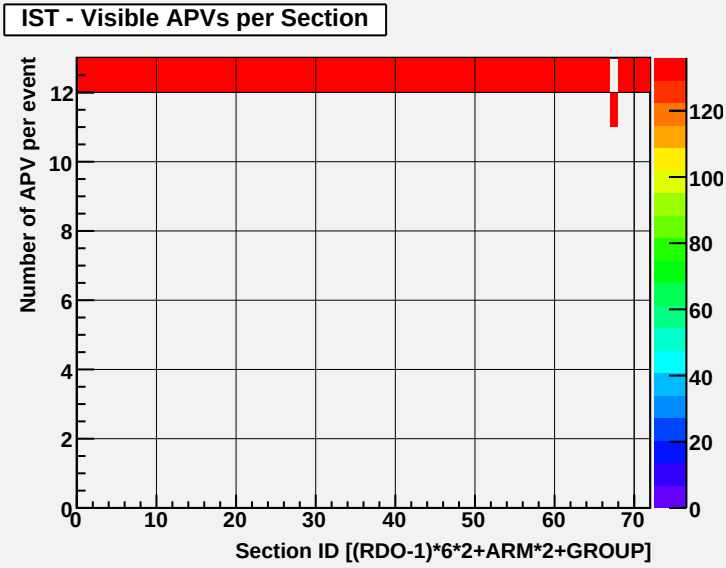
20

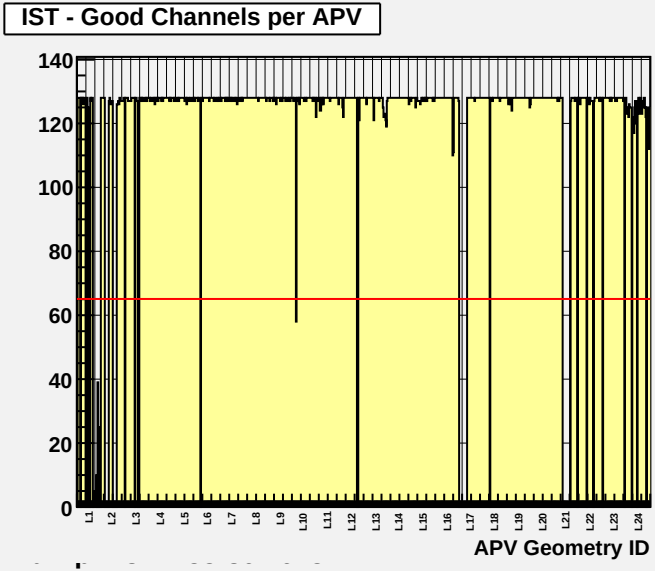

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
ADC value
Strip #

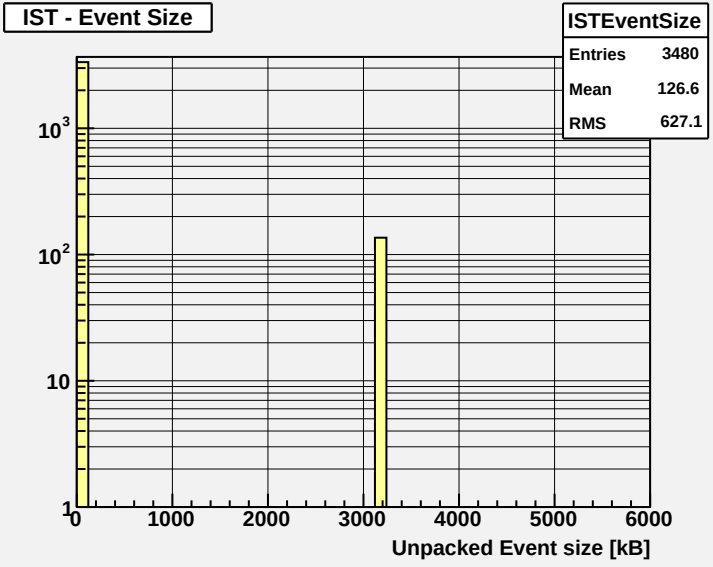

East-P-1
East-P-2
East-P-3
East-P-4
East-P-5
East-P-6
East-P-7
East-P-8
East-P-9
East-P-10
East-P-11
East-P-12
East-P-13
East-P-14
East-P-15
East-P-16
East-P-17
East-P-18
East-P-19
East-P-20
Adc
Event #

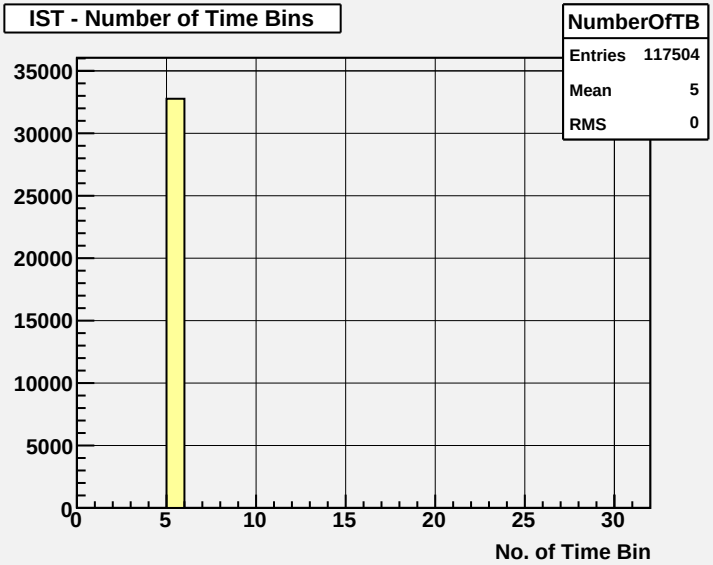

West-N-1
West-N-2
West-N-3
West-N-4
West-N-5
West-N-6
West-N-7
West-N-8
West-N-9
West-N-10
West-N-11
West-N-12
West-N-13
West-N-14
West-N-15
West-N-16
West-N-17
West-N-18
West-N-19
West-N-20
Adc
Event #

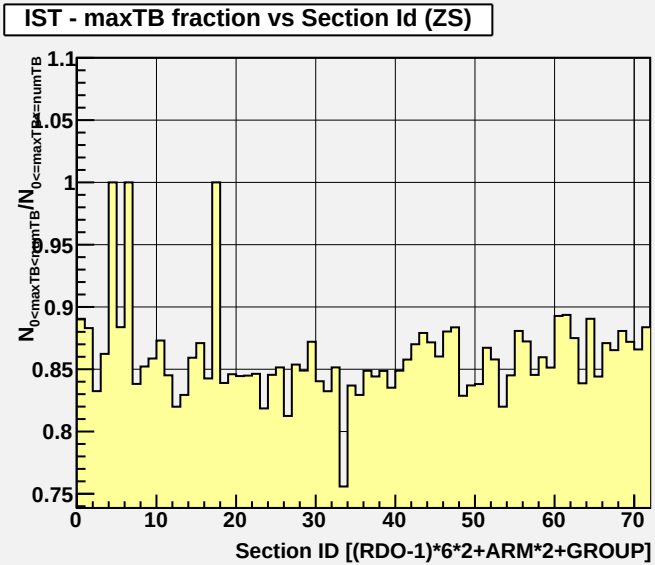

IST - Visible APVs Frequency
VisibleAPV
Entries 136
Mean 863
RMS 0
Number of visible APVs

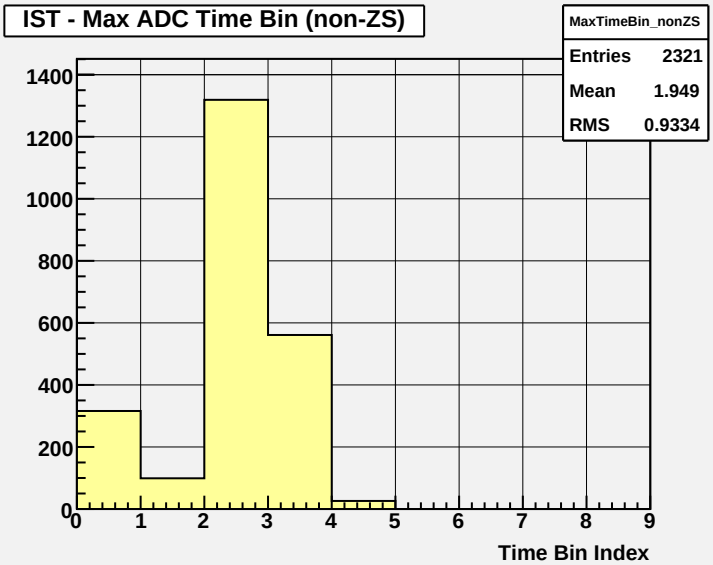

IST - Visible APVs per Section
Number of APV per event
Section ID [(RDO-1)*6*2+ARM*2+GROUP]

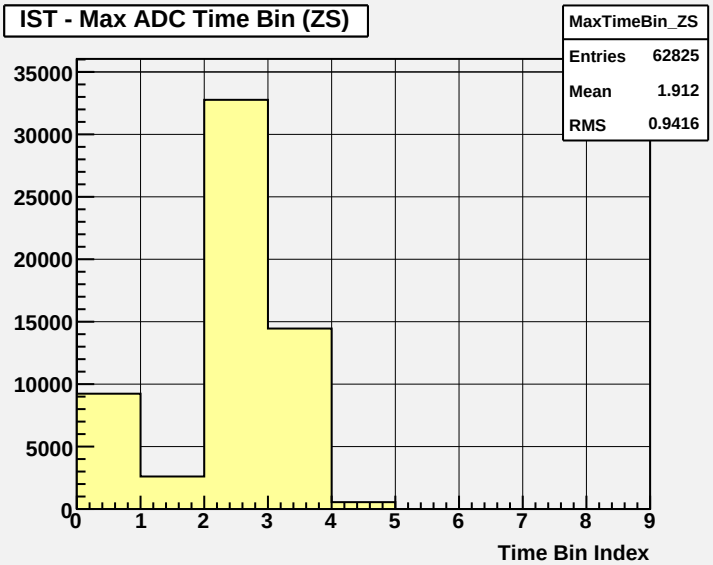

IST - Good Channels per APV
APV Geometry ID


IST - Event Size
ISTEventSize
Entries 3480
Mean 126.6
RMS 627.1
Unpacked Event size [kB]

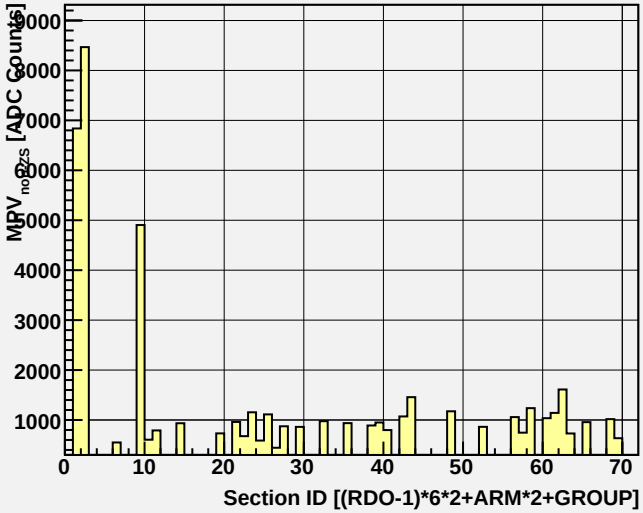

IST - Number of Time Bins
NumberOfTB
Entries 117504
Mean 5
RMS 0
No. of Time Bin


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

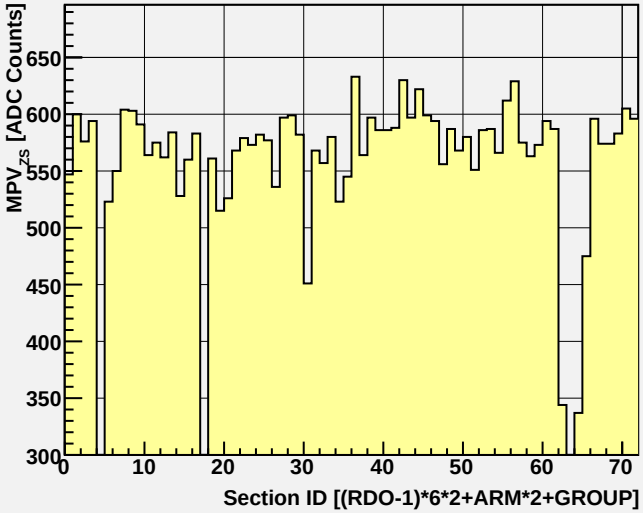

IST - Max ADC Time Bin (non-ZS)
MaxTimeBin_nonZS
Entries 2321
Mean 1.949
RMS 0.9334
Time Bin Index


IST - Max ADC Time Bin (ZS)
MaxTimeBin_ZS
Entries 62825
Mean 1.912
RMS 0.9416
Time Bin Index

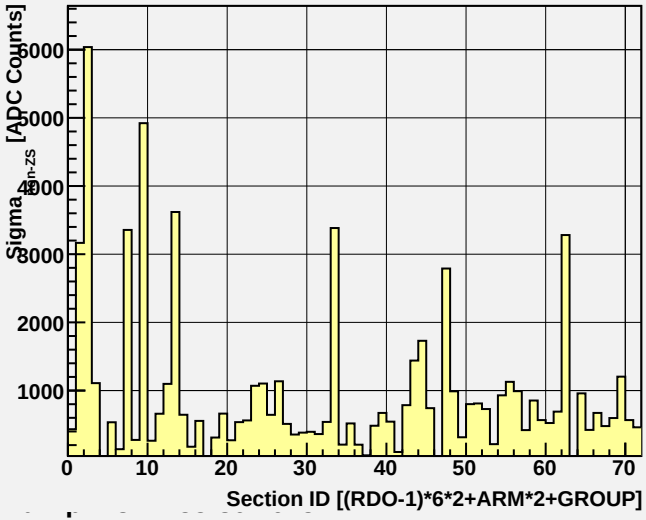
IST - MPV vs Section Id (non-ZS)



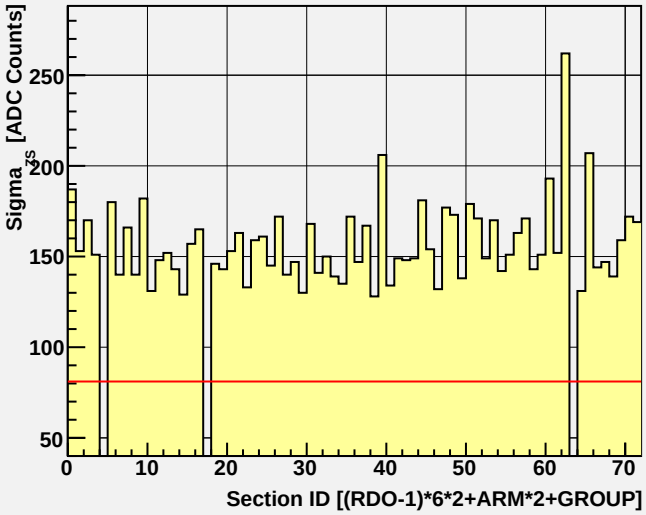
IST - MPV vs Section Id (ZS)

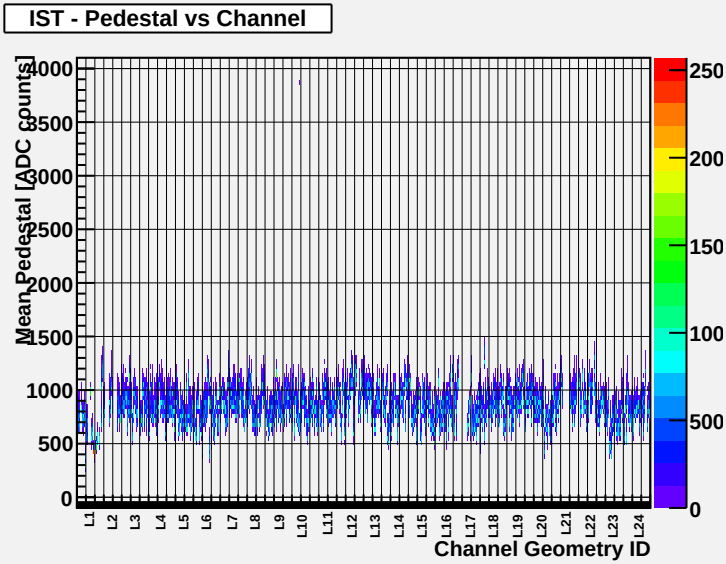


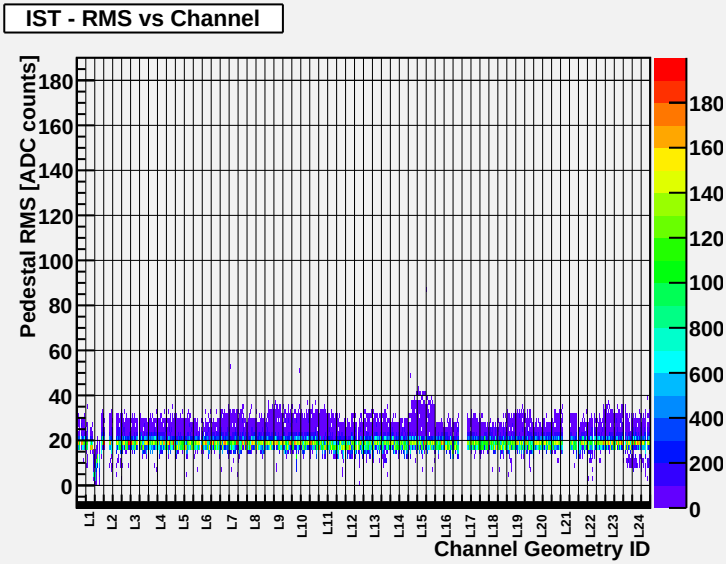
IST - Sigma vs Section Id (non-ZS)

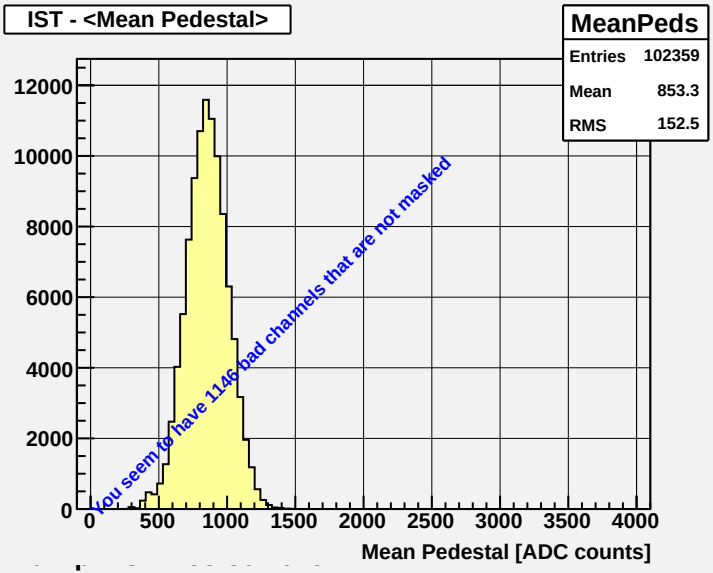


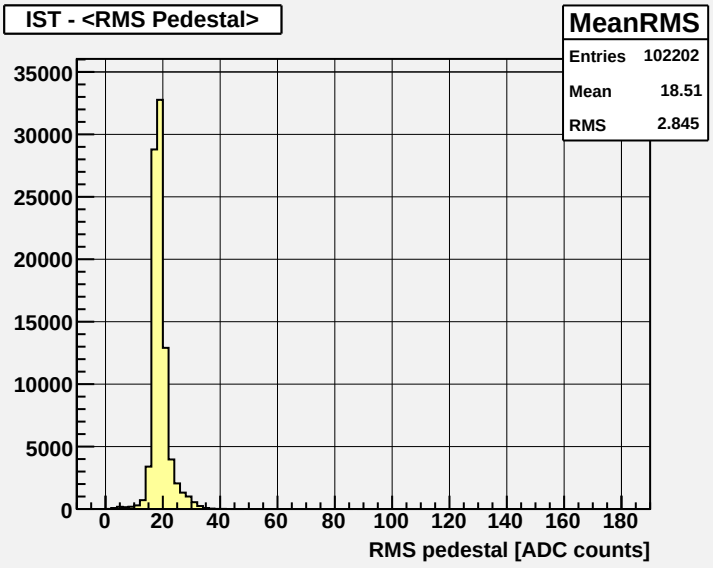
IST - Sigma vs Section Id (ZS)

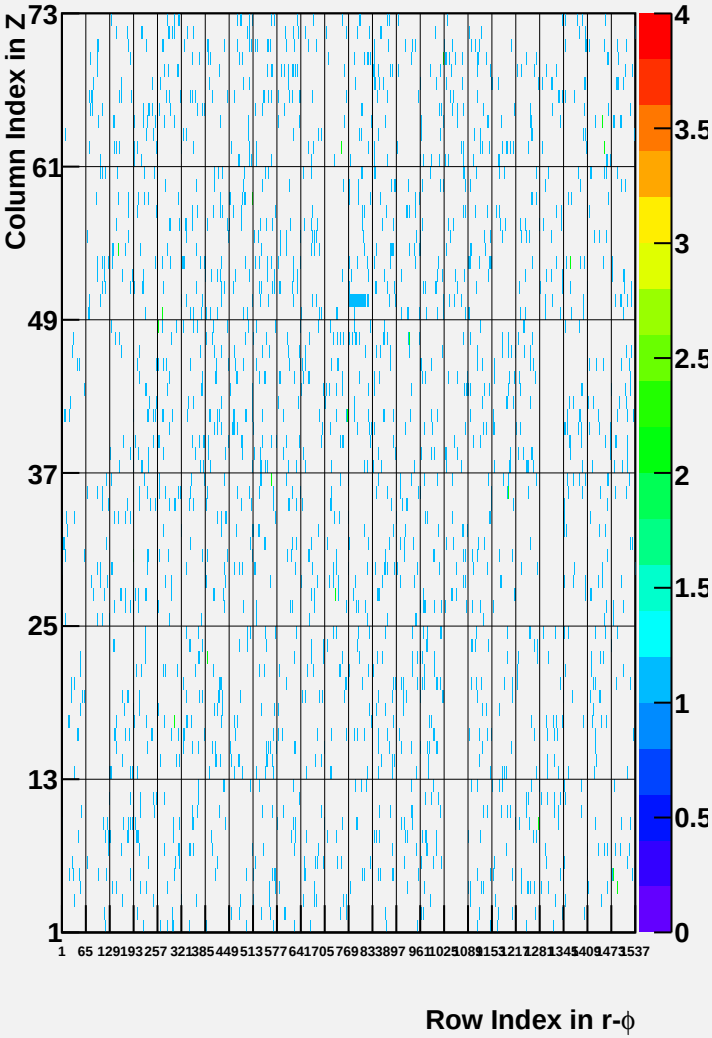


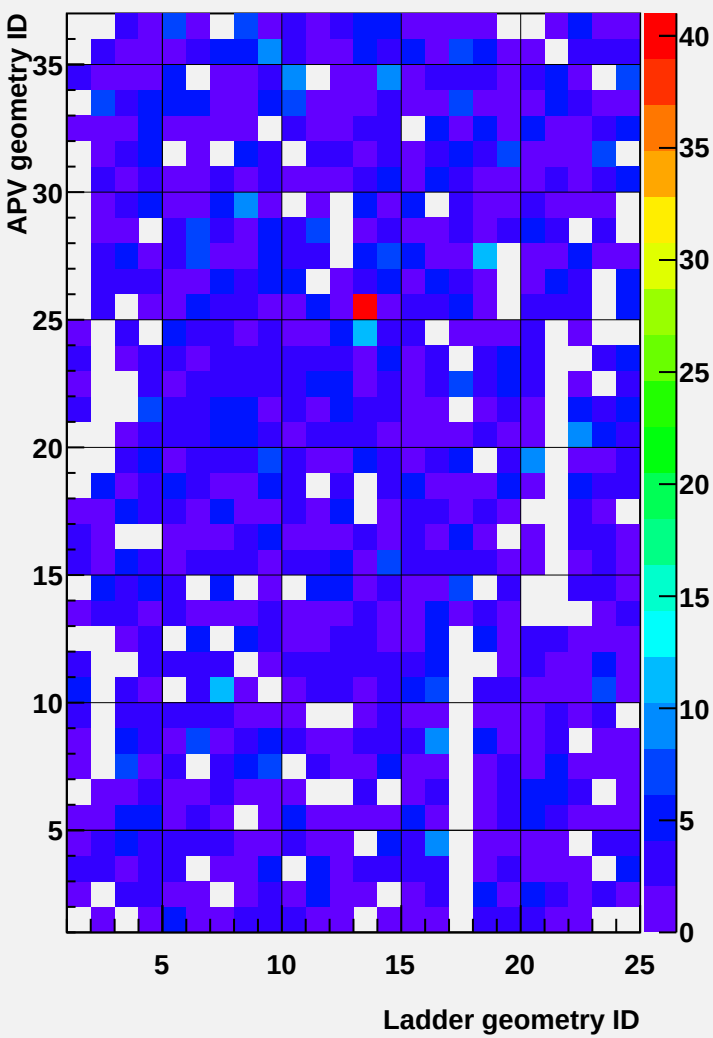

IST - Pedestal vs Channel
Mean Pedestal [ADC counts]
Channel Geometry ID

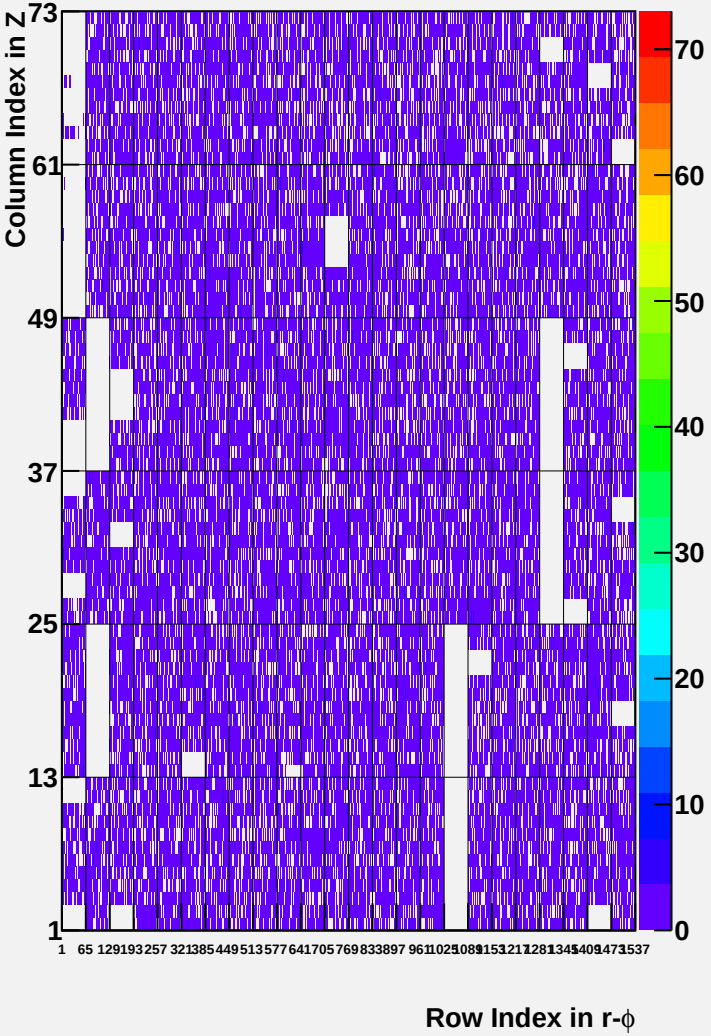

IST - RMS vs Channel
Pedestal RMS [ADC counts]
Channel Geometry ID

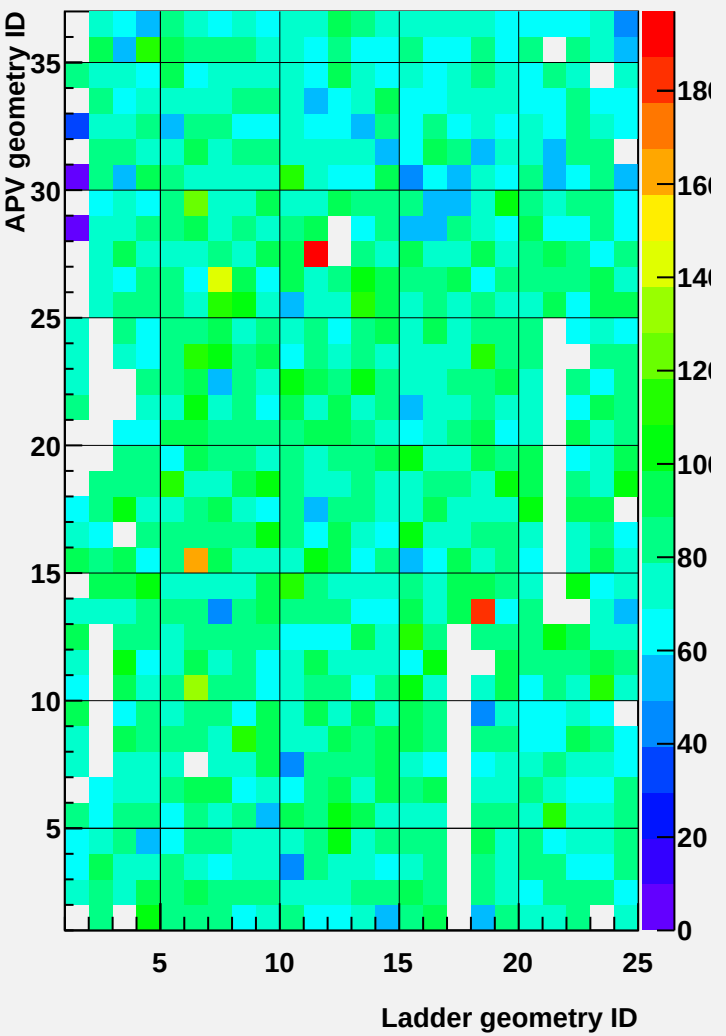

IST - <Mean Pedestal>
MeanPeds
Entries 102359
Mean 853.3
RMS 152.5
You seem to have 1146 bad channels that are not masked
Mean Pedestal [ADC counts]

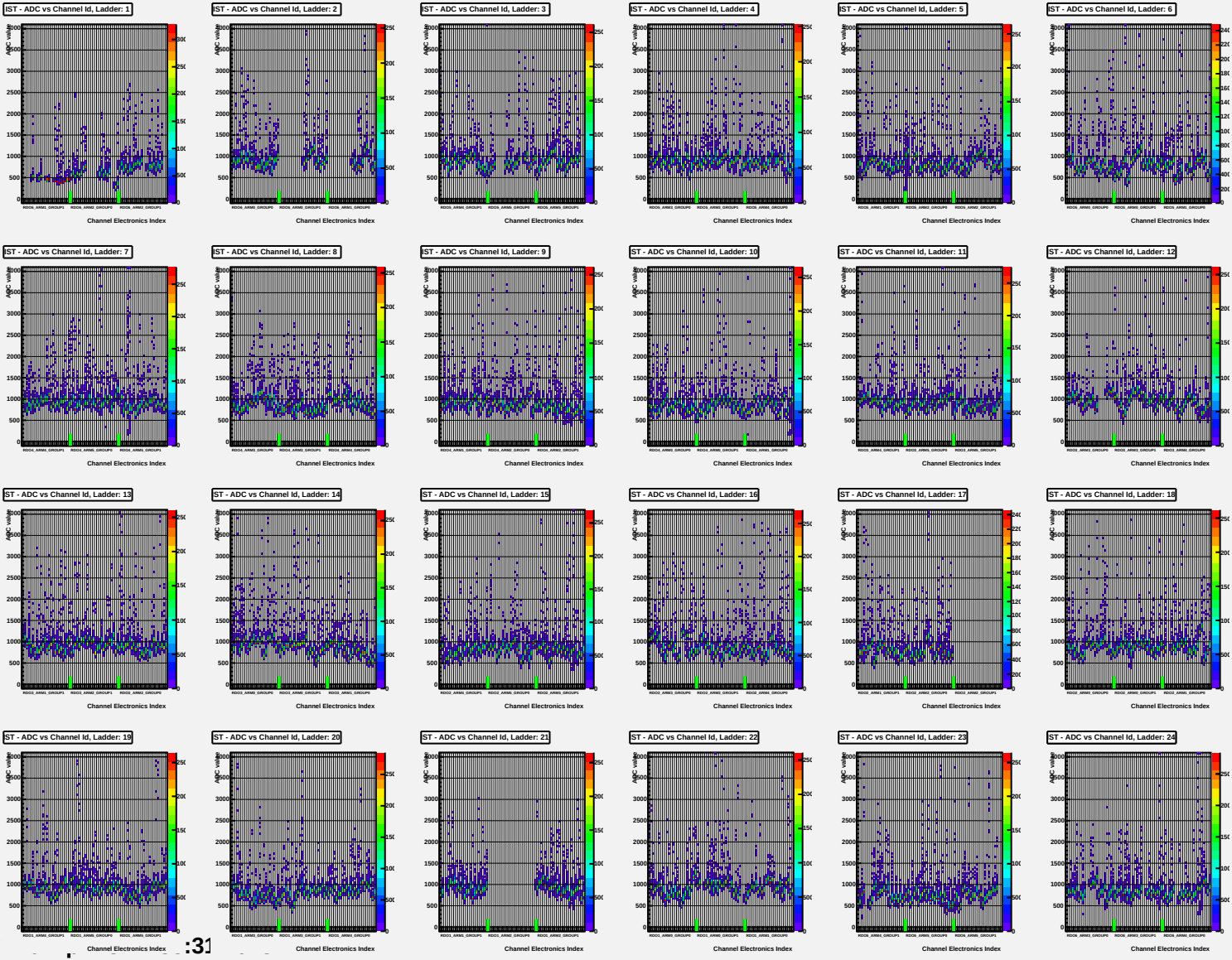

IST - <RMS Pedestal>
MeanRMS
Entries 102202
Mean 18.51
RMS 2.845
RMS pedestal [ADC counts]

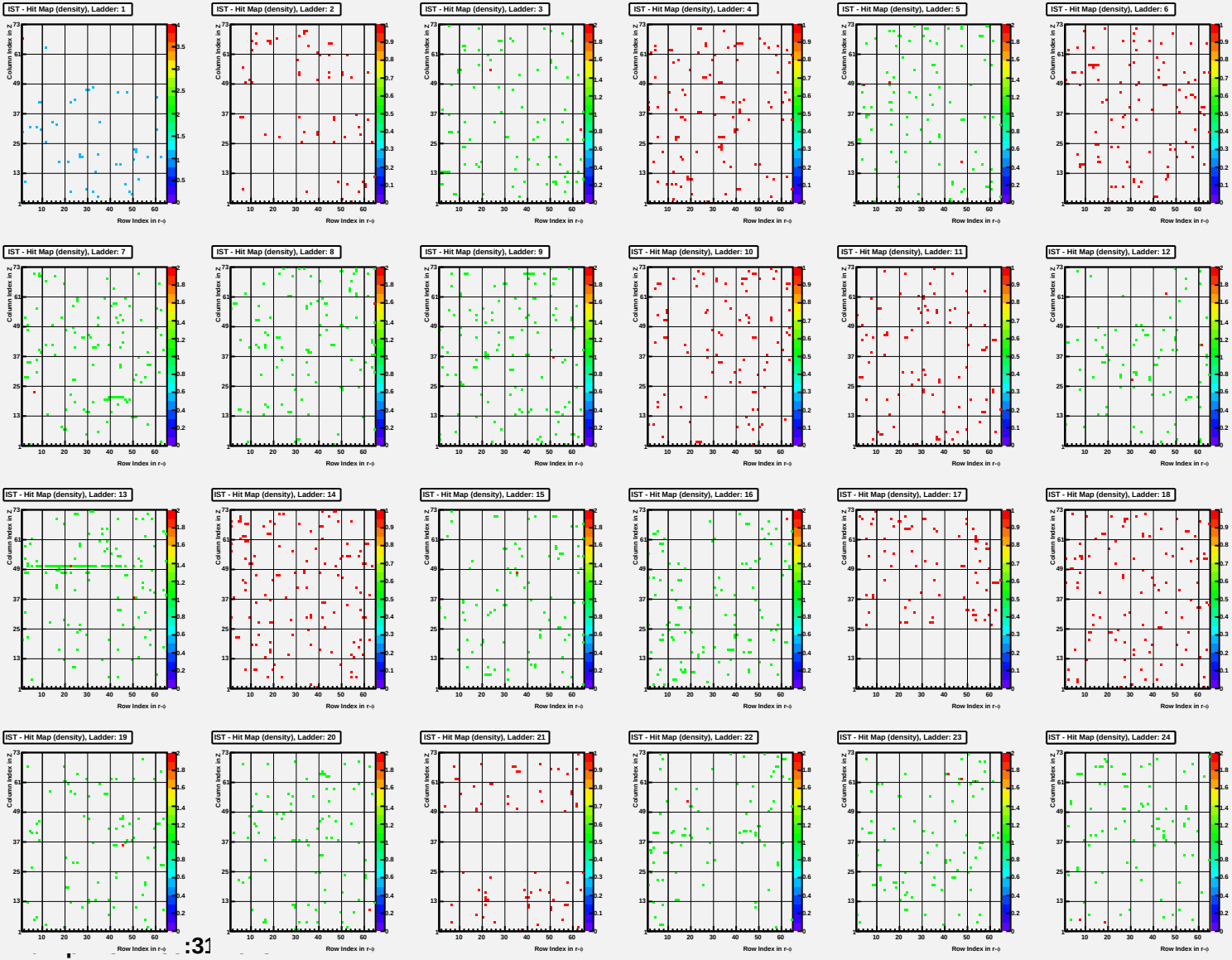

IST - Hit map (non-ZS)
Column Index in Z
Row Index in r-ϕ

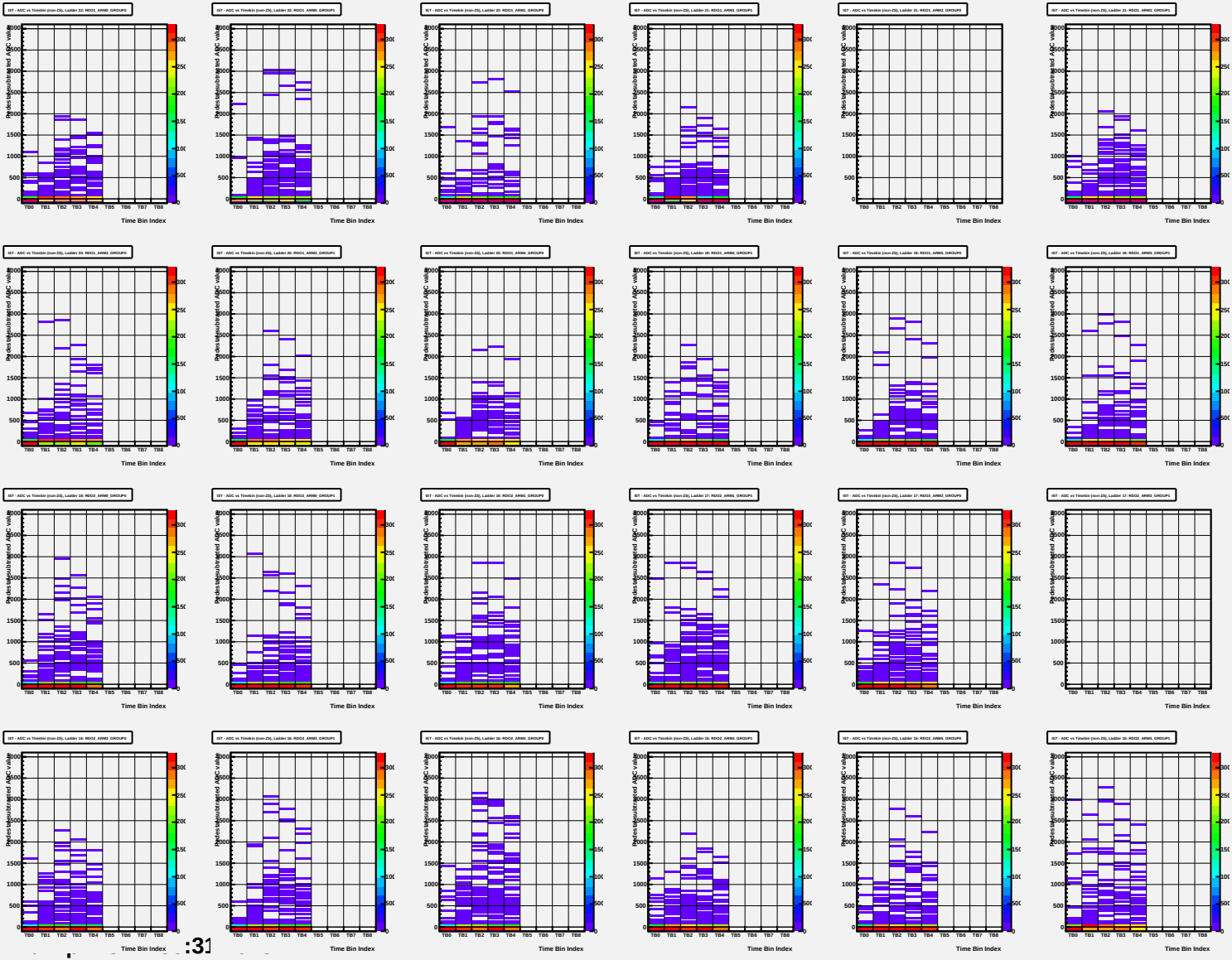

IST - Hit map in Ladder vs APV (non-ZS)
APV geometry ID
Ladder geometry ID

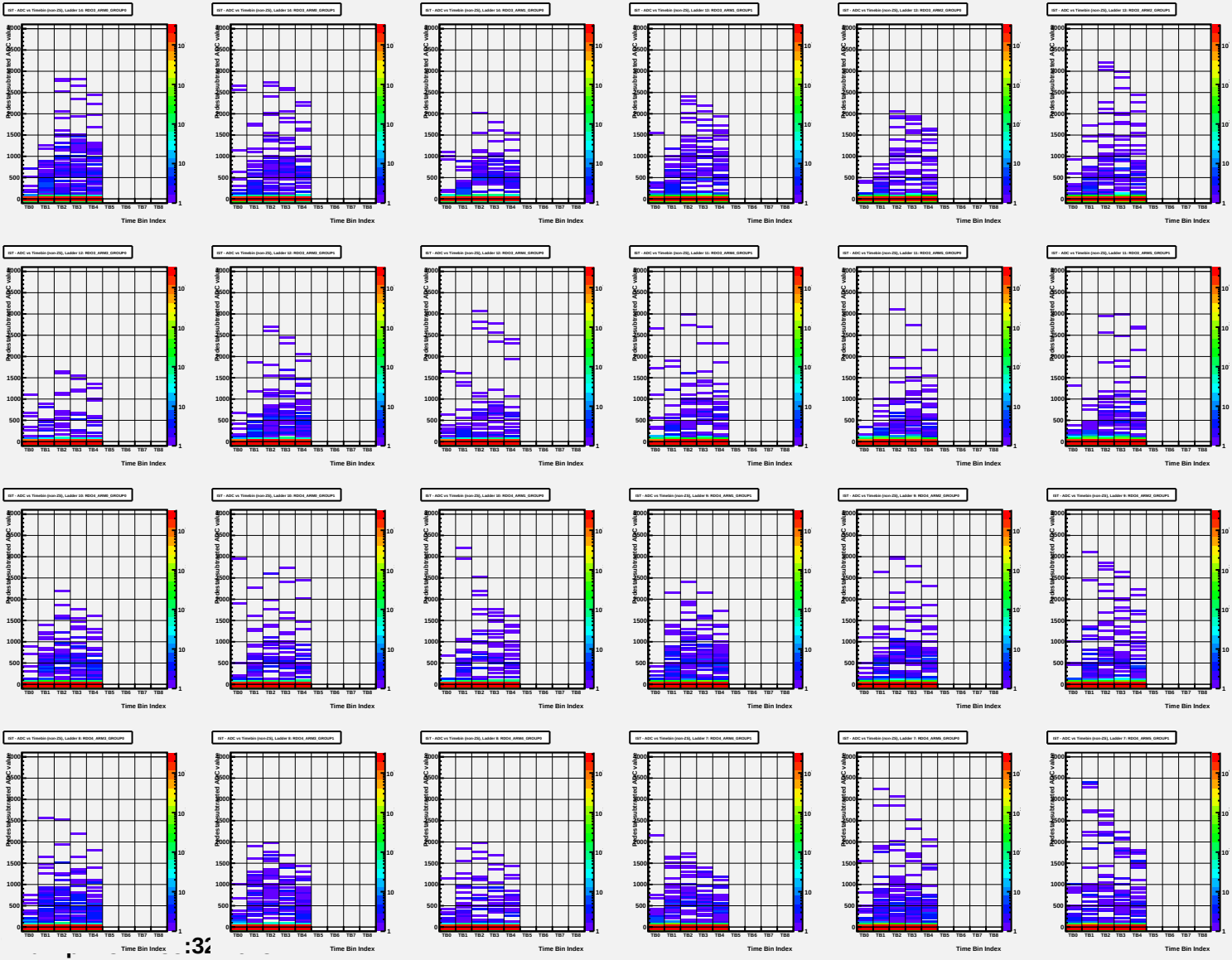

IST - Hit map (ZS)
Column Index in Z
Row Index in r-ϕ

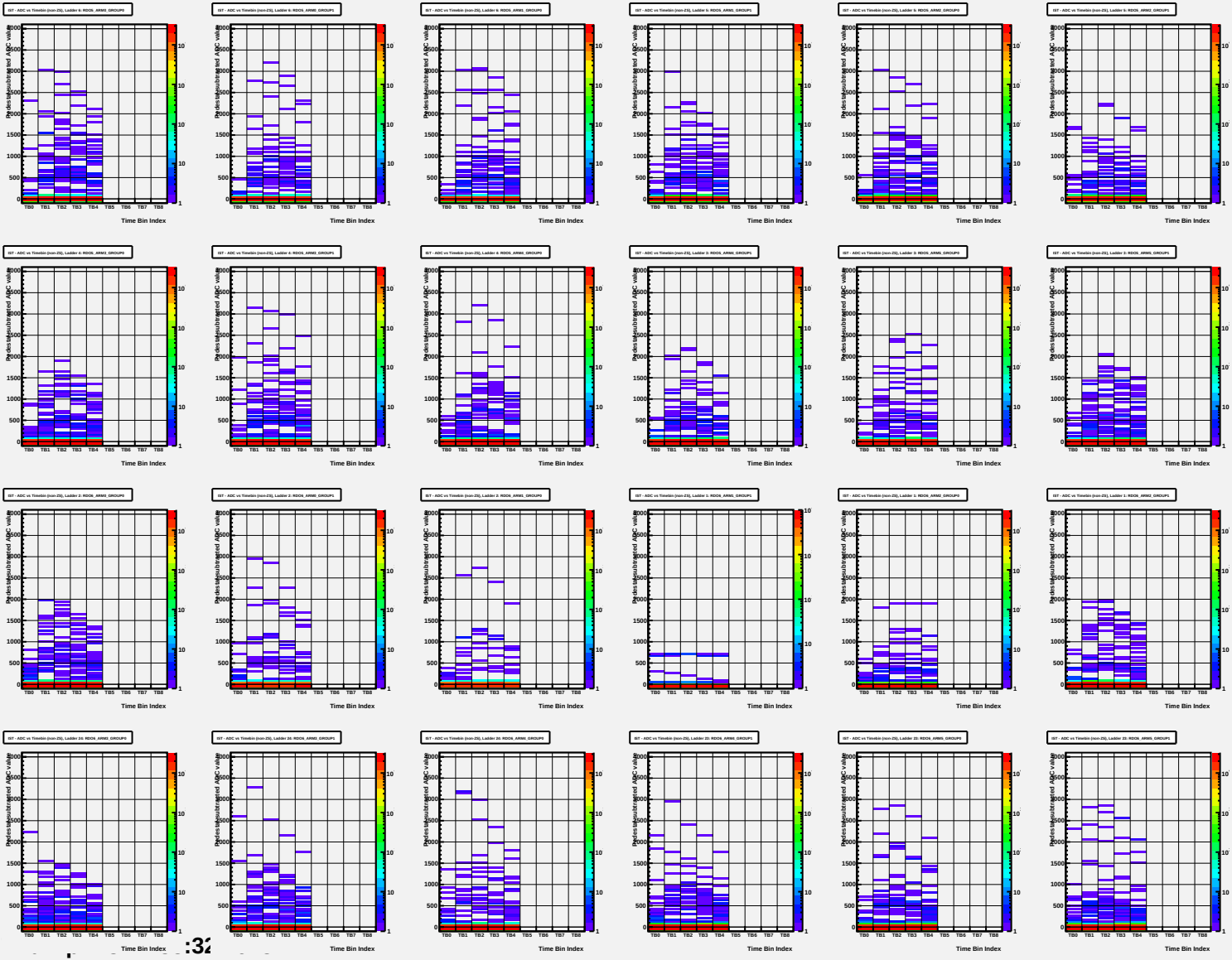

IST - Hit map in Ladder vs APV (ZS)
APV geometry ID
Ladder geometry ID

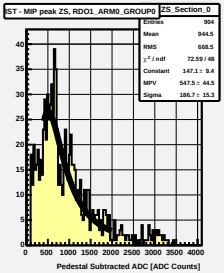

IST - ADC vs Channel Id, Ladder: 1
IST - ADC vs Channel Id, Ladder: 2
IST - ADC vs Channel Id, Ladder: 3
IST - ADC vs Channel Id, Ladder: 4
IST - ADC vs Channel Id, Ladder: 5
IST - ADC vs Channel Id, Ladder: 6
IST - ADC vs Channel Id, Ladder: 7
IST - ADC vs Channel Id, Ladder: 8
IST - ADC vs Channel Id, Ladder: 9
IST - ADC vs Channel Id, Ladder: 10
IST - ADC vs Channel Id, Ladder: 11
IST - 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

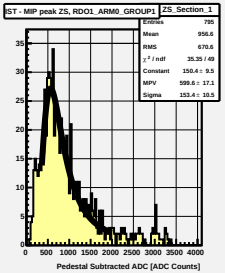

IST - Hit Map (density), Ladder: 1
IST - Hit Map (density), Ladder: 2
IST - Hit Map (density), Ladder: 3
IST - Hit Map (density), Ladder: 4
IST - Hit Map (density), Ladder: 5
IST - Hit Map (density), Ladder: 6
IST - Hit Map (density), Ladder: 7
IST - Hit Map (density), Ladder: 8
IST - Hit Map (density),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

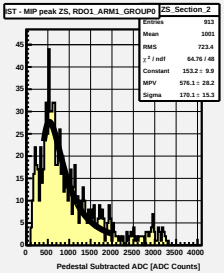

Pedestal/subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8

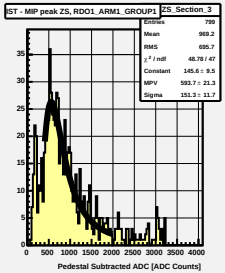

IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM0_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 14: RDO3_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM1_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 13: RDO3_ARM2_GROUP0
IST - 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: RDO3_ARM4_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO3_ARM4_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO3_ARM5_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 11: RDO3_ARM5_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM0_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM0_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 10: RDO4_ARM1_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM1_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM2_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 9: RDO4_ARM2_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO4_ARM3_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO4_ARM3_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 8: RDO4_ARM4_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO4_ARM4_GROUP1
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO4_ARM5_GROUP0
IST - ADC vs Timestim (non-ZS), Ladder 7: RDO4_ARM5_GROUP1
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8

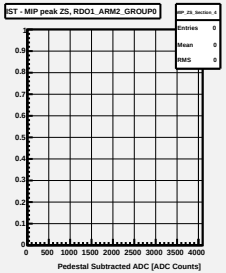

IST : ADC vs Timebin (non-ZS), Ladder 6: RDO6_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 6: RDO5_ARM3_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM1_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 5: RDO5_ARM2_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM3_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 4: RDO5_ARM0_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO5_ARM0_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO5_ARM5_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 3: RDO5_ARM5_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO6_ARM5_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO6_ARM4_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 2: RDO6_ARM1_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO6_ARM1_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO6_ARM2_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 1: RDO6_ARM2_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO6_ARM3_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO6_ARM3_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 24: RDO6_ARM4_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO6_ARM4_GROUP1
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO6_ARM5_GROUP0
IST : ADC vs Timebin (non-ZS), Ladder 23: RDO6_ARM5_GROUP1
Pedestal subtracted ADC value
Time Bin Index
TB0 TB1 TB2 TB3 TB4 TB5 TB6 TB7 TB8

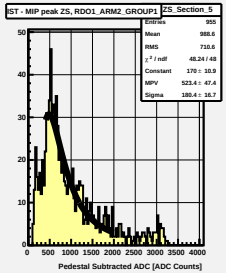

IST - MIP peak ZS, RDO1_ARM0_GROUP0
ZS_Section_0
Entries 904
Mean 944.5
RMS 668.5
χ² / ndf 72.59 / 48
Constant 147.1 ± 9.4
MPV 547.5 ± 44.5
Sigma 186.7 ± 15.3
Pedestal Subtracted ADC [ADC Counts]

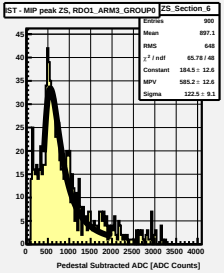

IST - MIP peak ZS, RDO1_ARM0_GROUP1
ZS_Section_1
Entries 795
Mean 956.6
RMS 670.6
χ² / ndf 35.35 / 49
Constant 150.4 ± 9.5
MPV 599.6 ± 17.1
Sigma 153.4 ± 10.5
Pedestal Subtracted ADC [ADC Counts]

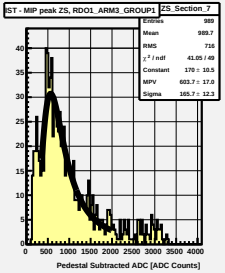

IST - MIP peak ZS, RDO1_ARM1_GROUP0
ZS_Section_2
Entries 913
Mean 1001
RMS 723.4
χ² / ndf 64.76 / 48
Constant 153.2 ± 9.9
MPV 576.1 ± 28.2
Sigma 170.1 ± 15.3
Pedestal Subtracted ADC [ADC Counts]

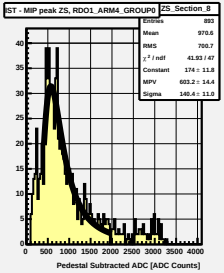

IST - MIP peak ZS, RDO1_ARM1_GROUP1
ZS_Section_3
Entries 799
Mean 969.2
RMS 695.7
χ² / ndf 48.78 / 47
Constant 145.6 ± 9.5
MPV 593.7 ± 21.3
Sigma 151.3 ± 11.7
Pedestal Subtracted ADC [ADC Counts]

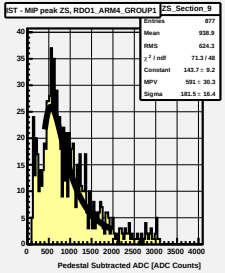

IST - MIP peak ZS, RDO1_ARM2_GROUP0
MP_ZS_Section_4
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]

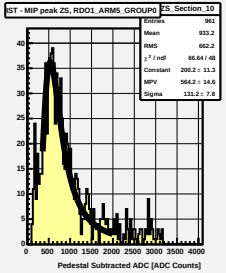

IST - MIP peak ZS, RDO1_ARM2_GROUP1
ZS_Section_5
Entries 955
Mean 988.6
RMS 710.6
χ² / ndf 48.24 / 48
Constant 170 ± 10.9
MPV 523.4 ± 47.4
Sigma 180.4 ± 16.7
Pedestal Subtracted ADC [ADC Counts]

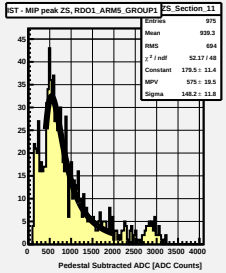

IST - MIP peak ZS, RDO1_ARM3_GROUP0
ZS_Section_6
Entries 900
Mean 897.1
RMS 648
χ² / ndf 65.78 / 48
Constant 184.5 ± 12.6
MPV 585.2 ± 12.6
Sigma 122.5 ± 9.1
Pedestal Subtracted ADC [ADC Counts]

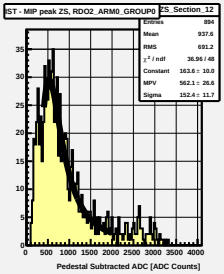

IST - MIP peak ZS, RDO1_ARM3_GROUP1
ZS_Section_7
Entries 989
Mean 989.7
RMS 716
χ² / ndf 41.05 / 49
Constant 170 ± 10.5
MPV 603.7 ± 17.0
Sigma 165.7 ± 12.3
Pedestal Subtracted ADC [ADC Counts]

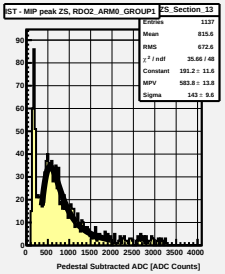

IST - MIP peak ZS, RDO1_ARM4_GROUP0
ZS_Section_8
Entries 893
Mean 970.6
RMS 700.7
χ² / ndf 41.93 / 47
Constant 174 ± 11.8
MPV 603.2 ± 14.4
Sigma 140.4 ± 11.0
Pedestal Subtracted ADC [ADC Counts]

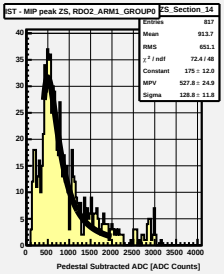

IST - MIP peak ZS, RDO1_ARM4_GROUP1
ZS_Section_9
Entries 877
Mean 938.9
RMS 624.3
χ² / ndf 71.3 / 48
Constant 143.7 ± 9.2
MPV 591 ± 30.3
Sigma 181.5 ± 16.4
Pedestal Subtracted ADC [ADC Counts]

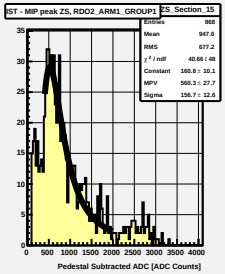

IST - MIP peak ZS, RDO1_ARM5_GROUP0
ZS_Section_10
Entries 961
Mean 933.2
RMS 662.2
χ² / ndf 66.64 / 48
Constant 200.2 ± 11.3
MPV 564.2 ± 14.6
Sigma 131.2 ± 7.6
Pedestal Subtracted ADC [ADC Counts]

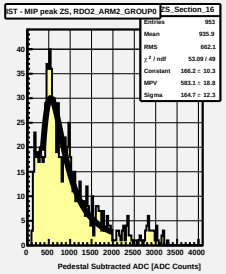

IST - MIP peak ZS, RDO1_ARM5_GROUP1
ZS_Section_11
Entries 975
Mean 939.3
RMS 694
χ² / ndf 52.17 / 48
Constant 179.5 ± 11.4
MPV 575 ± 19.5
Sigma 148.2 ± 11.6
Pedestal Subtracted ADC [ADC Counts]

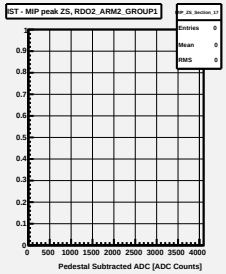

IST - MIP peak ZS, RDO2_ARM0_GROUP0
ZS_Section_12
Entries 894
Mean 937.6
RMS 691.2
χ² / ndf 36.96 / 48
Constant 163.6 ± 10.0
MPV 562.1 ± 26.6
Sigma 152.4 ± 11.7
Pedestal Subtracted ADC [ADC Counts]

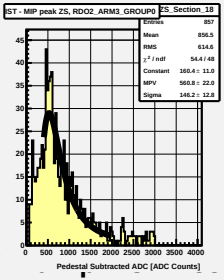

IST - MIP peak ZS, RDO2_ARM0_GROUP1
ZS_Section_13
Entries 1137
Mean 815.6
RMS 672.6
χ² / ndf 35.66 / 48
Constant 191.2 ± 11.6
MPV 583.8 ± 13.8
Sigma 143 ± 9.6
Pedestal Subtracted ADC [ADC Counts]

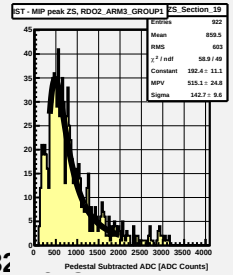

IST - MIP peak ZS, RDO2_ARM1_GROUP0
ZS_Section_14
Entries 817
Mean 913.7
RMS 651.1
χ² / ndf 72.4 / 48
Constant 175 ± 12.0
MPV 527.8 ± 24.9
Sigma 128.8 ± 11.8
Pedestal Subtracted ADC [ADC Counts]

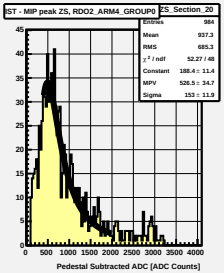

IST - MIP peak ZS, RDO2_ARM1_GROUP1
ZS_Section_15
Entries 868
Mean 947.6
RMS 677.2
χ² / ndf 40.66 / 48
Constant 160.8 ± 10.1
MPV 560.3 ± 27.7
Sigma 156.7 ± 12.6
Pedestal Subtracted ADC [ADC Counts]

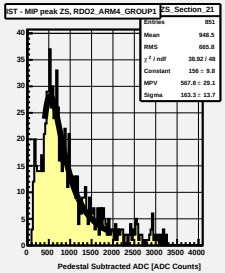

IST - MIP peak ZS, RDO2_ARM2_GROUP0
ZS_Section_16
Entries 953
Mean 935.9
RMS 662.1
χ² / ndf 53.09 / 49
Constant 166.2 ± 10.3
MPV 583.1 ± 18.8
Sigma 164.7 ± 12.3
Pedestal Subtracted ADC [ADC Counts]

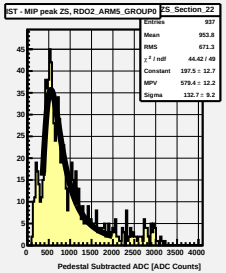

IST - MIP peak ZS, RDO2_ARM2_GROUP1
MP_ZS_Section_17
Entries 0
Mean 0
RMS 0
Pedestal Subtracted ADC [ADC Counts]

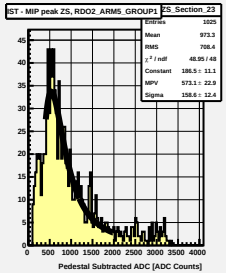

IST - MIP peak ZS, RDO2_ARM3_GROUP0
ZS_Section_18
Entries 857
Mean 856.5
RMS 614.6
χ² / ndf 54.4 / 48
Constant 160.4 ± 11.0
MPV 560.8 ± 22.0
Sigma 146.2 ± 12.8
Pedestal Subtracted ADC [ADC Counts]

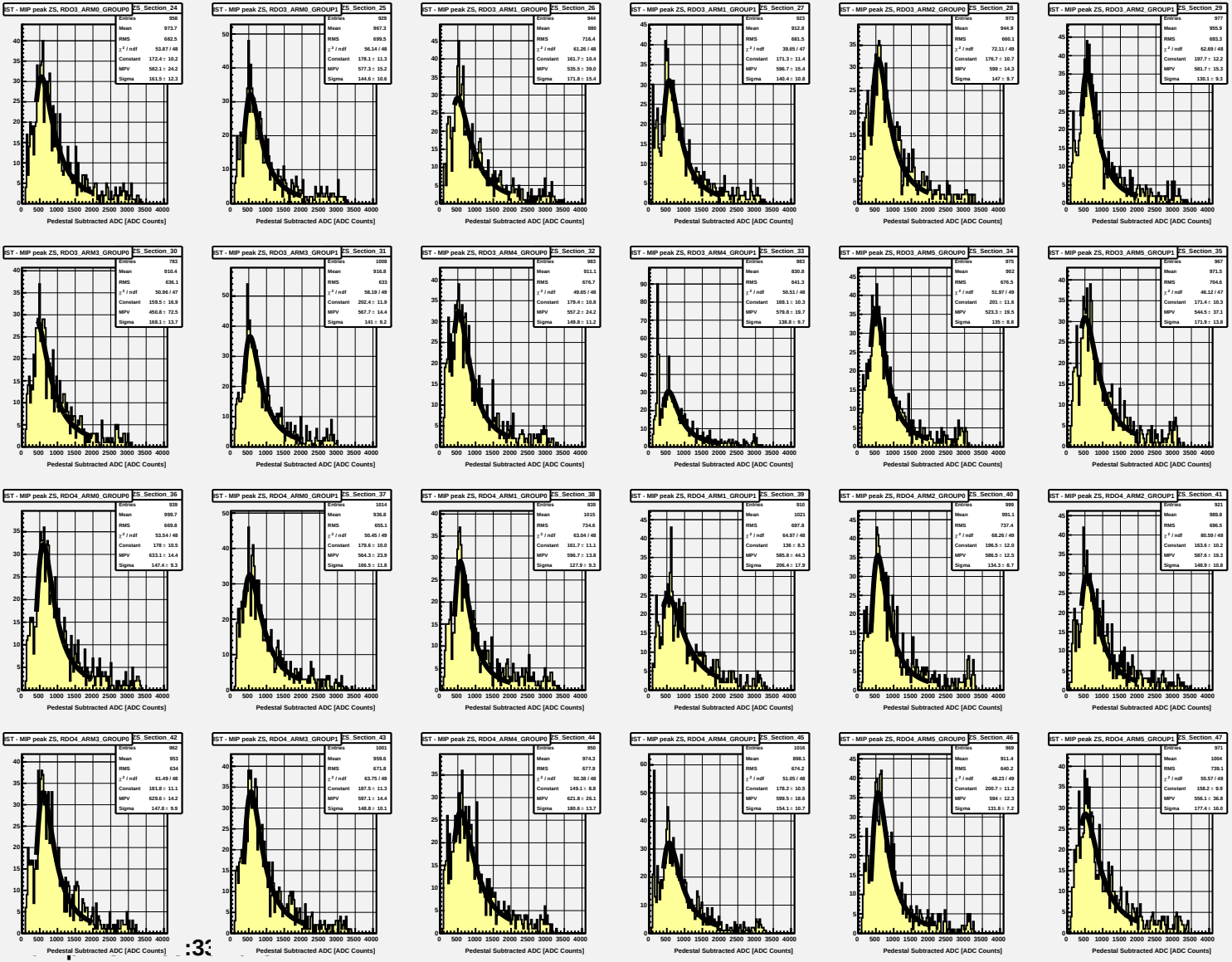

IST - MIP peak ZS, RDO2_ARM3_GROUP1
ZS_Section_19
Entries 922
Mean 859.5
RMS 603
χ² / ndf 58.9 / 49
Constant 192.4 ± 11.1
MPV 515.1 ± 24.8
Sigma 142.7 ± 9.6
Pedestal Subtracted ADC [ADC Counts]

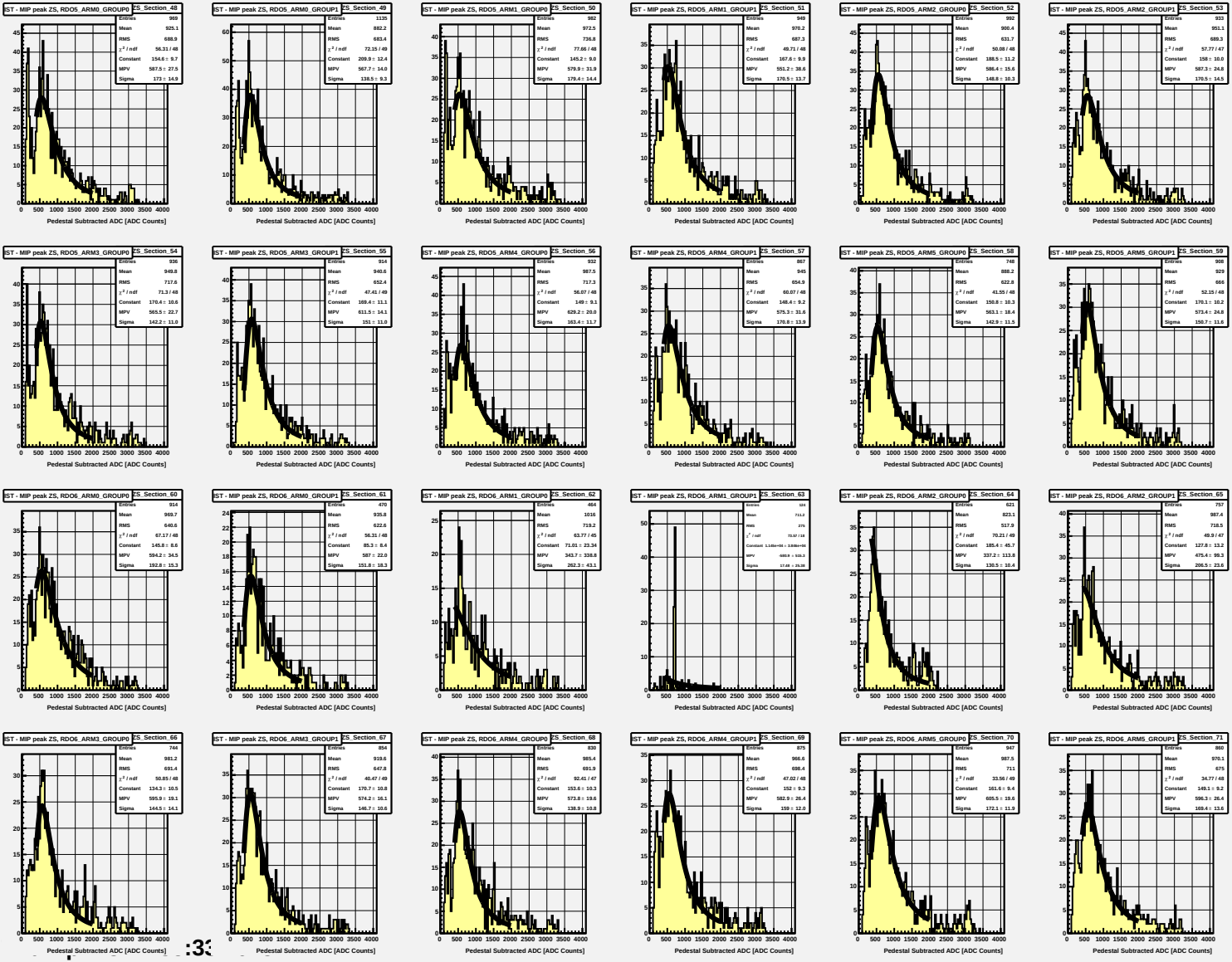

IST - MIP peak ZS, RDO2_ARM4_GROUP0
ZS_Section_20
Entries 984
Mean 937.3
RMS 685.3
χ² / ndf 52.27 / 48
Constant 188.4 ± 11.4
MPV 526.5 ± 34.7
Sigma 153 ± 11.9
Pedestal Subtracted ADC [ADC Counts]

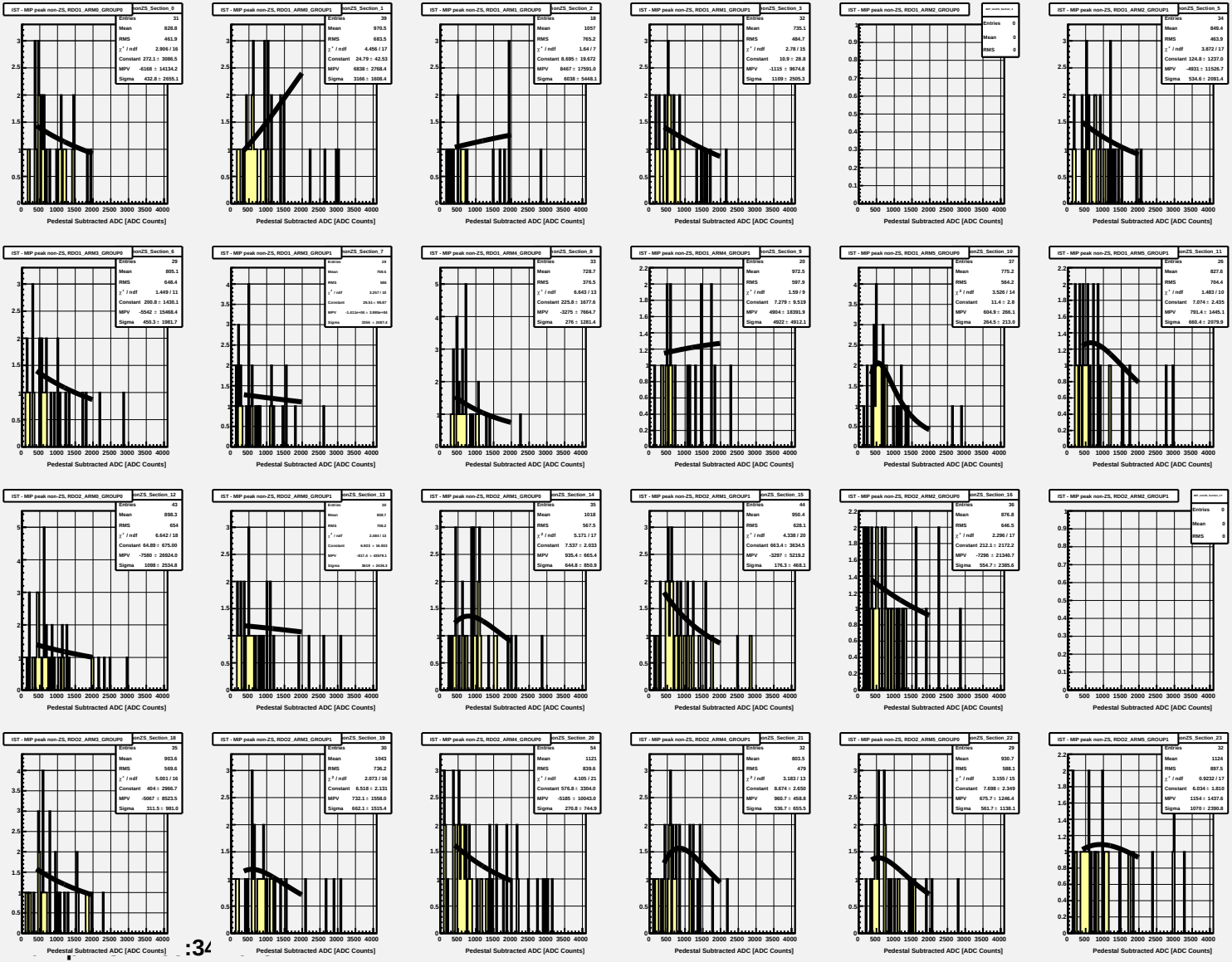

IST - MIP peak ZS, RDO2_ARM4_GROUP1
ZS_Section_21
Entries 851
Mean 948.5
RMS 665.8
χ² / ndf 38.92 / 48
Constant 156 ± 9.8
MPV 567.8 ± 29.1
Sigma 163.3 ± 13.7
Pedestal Subtracted ADC [ADC Counts]

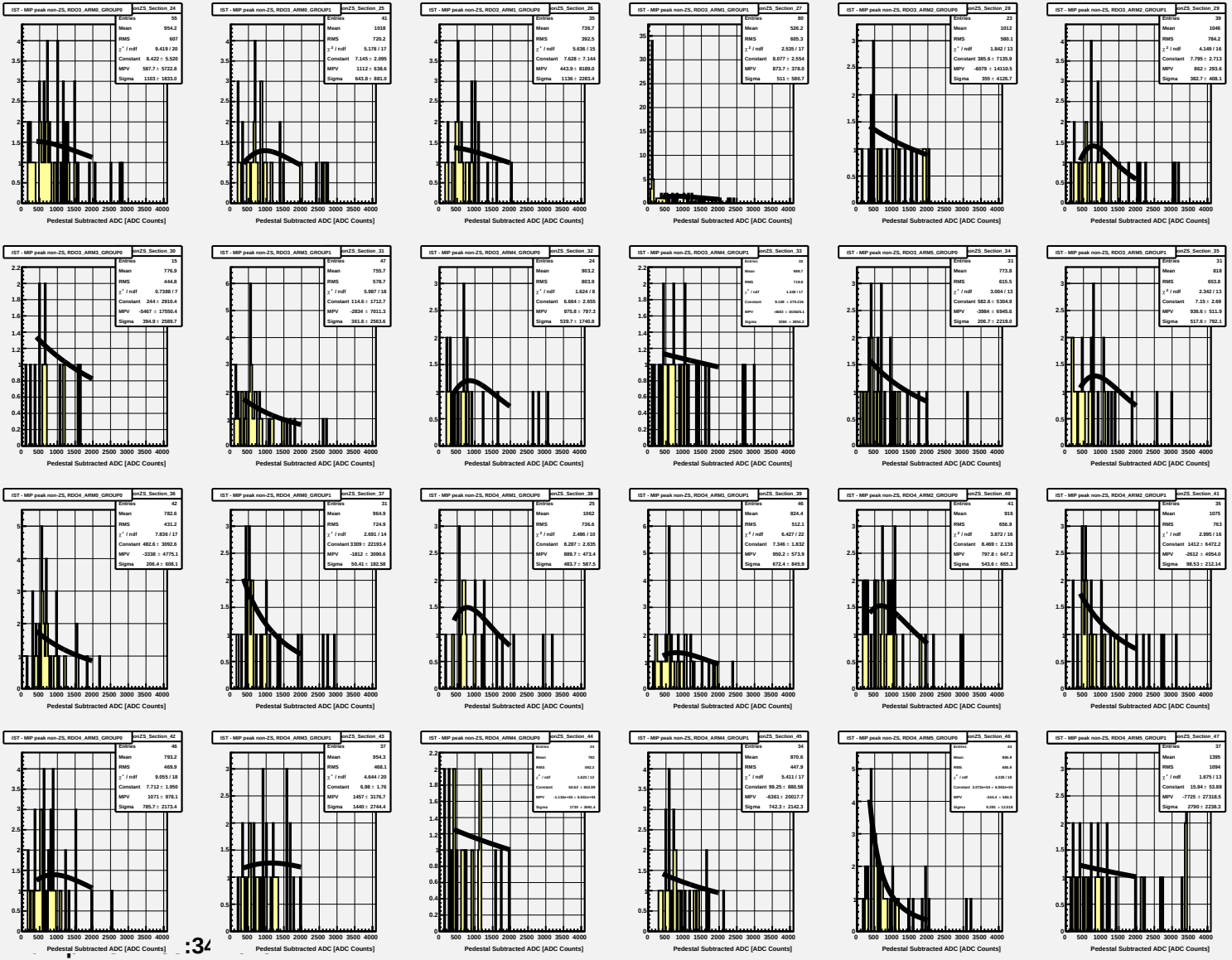

IST - MIP peak ZS, RDO2_ARM5_GROUP0
ZS_Section_22
Entries 937
Mean 953.8
RMS 671.3
χ² / ndf 44.42 / 49
Constant 197.5 ± 12.7
MPV 579.4 ± 12.2
Sigma 132.7 ± 9.2
Pedestal Subtracted ADC [ADC Counts]

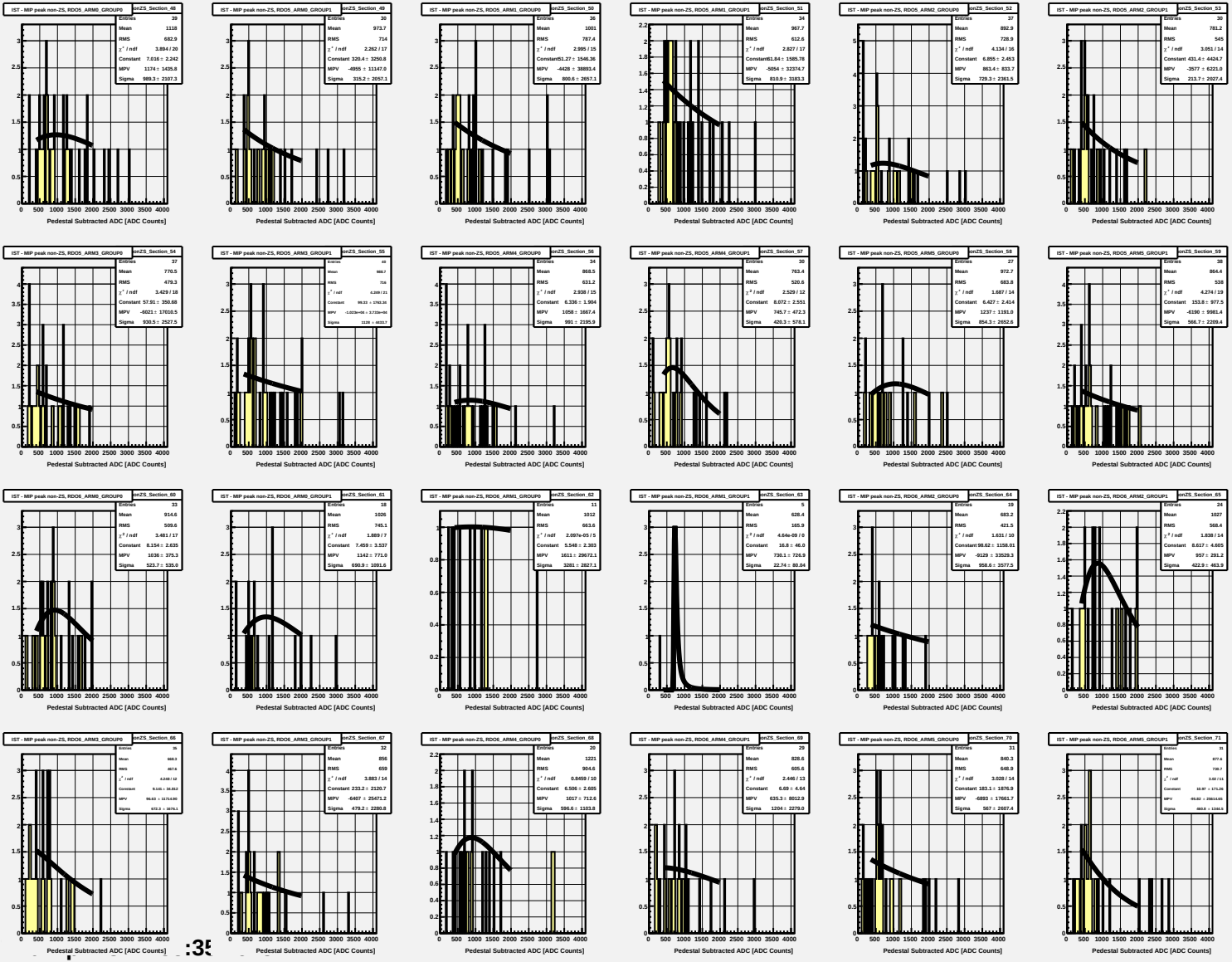

IST - MIP peak ZS, RDO2_ARM5_GROUP1
ZS_Section_23
Entries 1025
Mean 973.3
RMS 708.4
χ² / ndf 48.95 / 48
Constant 186.5 ± 11.1
MPV 573.1 ± 22.9
Sigma 158.6 ± 12.4
Pedestal Subtracted ADC [ADC Counts]

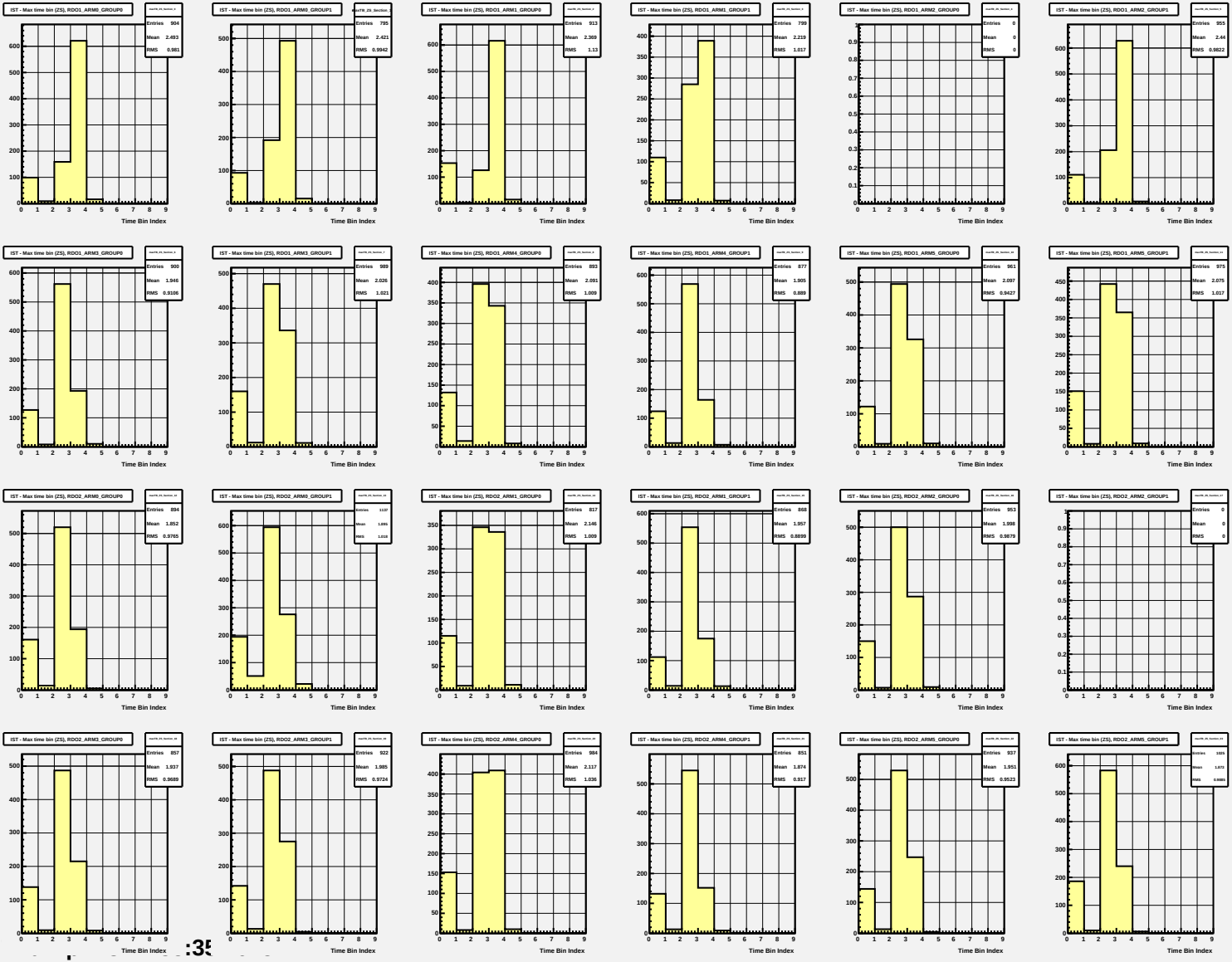

IST - MIP peak ZS, RDO3_ARM0_GROUP0 ZS_Section_24
Entries 958
Mean 973.7
RMS 682.5
χ² / ndf 53.87 / 48
Constant 172.4 ± 10.2
MPV 582.1 ± 24.2
Sigma 161.5 ± 12.3
IST - MIP peak ZS, RDO3_ARM0_GROUP1 ZS_Section_25
Entries 929
Mean 967.3
RMS 699.5
χ² / ndf 56.14 / 48
Constant 178.1 ± 11.3
MPV 577.3 ± 15.2
Sigma 144.6 ± 10.6
IST - MIP peak ZS, RDO3_ARM1_GROUP0 ZS_Section_26
Entries 944
Mean 986
RMS 716.4
χ² / ndf 61.26 / 48
Constant 161.7 ± 10.4
MPV 535.5 ± 39.0
Sigma 171.8 ± 15.4
IST - MIP peak ZS, RDO3_ARM1_GROUP1 ZS_Section_27
Entries 923
Mean 912.8
RMS 681.5
χ² / ndf 39.65 / 47
Constant 171.3 ± 11.4
MPV 596.7 ± 15.4
Sigma 140.4 ± 10.8
IST - MIP peak ZS, RDO3_ARM2_GROUP0 ZS_Section_28
Entries 973
Mean 944.9
RMS 660.1
χ² / ndf 72.11 / 49
Constant 176.7 ± 10.7
MPV 599 ± 14.3
Sigma 147 ± 9.7
IST - MIP peak ZS, RDO3_ARM2_GROUP1 ZS_Section_29
Entries 977
Mean 955.9
RMS 693.3
χ² / ndf 62.69 / 48
Constant 197.7 ± 12.2
MPV 581.7 ± 15.3
Sigma 130.1 ± 9.3
IST - MIP peak ZS, RDO3_ARM3_GROUP0 ZS_Section_30
Entries 783
Mean 910.4
RMS 636.1
χ² / ndf 50.96 / 47
Constant 159.5 ± 16.9
MPV 450.8 ± 72.5
Sigma 168.1 ± 13.7
IST - MIP peak ZS, RDO3_ARM3_GROUP1 ZS_Section_31
Entries 1008
Mean 916.9
RMS 633
χ² / ndf 58.19 / 49
Constant 202.4 ± 11.9
MPV 567.7 ± 14.4
Sigma 141 ± 9.2
IST - MIP peak ZS, RDO3_ARM4_GROUP0 ZS_Section_32
Entries 983
Mean 911.1
RMS 676.7
χ² / ndf 49.65 / 48
Constant 179.4 ± 10.8
MPV 557.2 ± 24.2
Sigma 149.8 ± 11.2
IST - MIP peak ZS, RDO3_ARM4_GROUP1 ZS_Section_33
Entries 983
Mean 830.9
RMS 641.3
χ² / ndf 50.51 / 48
Constant 169.1 ± 10.3
MPV 579.8 ± 19.7
Sigma 138.8 ± 9.7
IST - MIP peak ZS, RDO3_ARM5_GROUP0 ZS_Section_34
Entries 975
Mean 950
RMS 676.5
χ² / ndf 51.97 / 49
Constant 201 ± 11.6
MPV 523.3 ± 19.5
Sigma 135 ± 8.6
IST - MIP peak ZS, RDO3_ARM5_GROUP1 ZS_Section_35
Entries 967
Mean 971.5
RMS 704.6
χ² / ndf 46.12 / 47
Constant 171.4 ± 10.3
MPV 544.5 ± 37.1
Sigma 171.9 ± 13.6
IST - MIP peak ZS, RDO4_ARM0_GROUP0 ZS_Section_36
Entries 939
Mean 999.7
RMS 669.8
χ² / ndf 53.54 / 48
Constant 178 ± 10.5
MPV 633.1 ± 14.4
Sigma 147.4 ± 9.3
IST - MIP peak ZS, RDO4_ARM0_GROUP1 ZS_Section_37
Entries 1014
Mean 936.8
RMS 655.1
χ² / ndf 50.45 / 49
Constant 179.6 ± 10.0
MPV 564.3 ± 23.9
Sigma 166.5 ± 11.8
IST - MIP peak ZS, RDO4_ARM1_GROUP0 ZS_Section_38
Entries 839
Mean 1015
RMS 734.6
χ² / ndf 63.04 / 48
Constant 161.7 ± 11.1
MPV 596.7 ± 13.8
Sigma 127.9 ± 9.3
IST - MIP peak ZS, RDO4_ARM1_GROUP1 ZS_Section_39
Entries 910
Mean 1021
RMS 697.8
χ² / ndf 64.97 / 48
Constant 136 ± 8.3
MPV 585.8 ± 44.3
Sigma 206.4 ± 17.9
IST - MIP peak ZS, RDO4_ARM2_GROUP0 ZS_Section_40
Entries 999
Mean 991.1
RMS 737.4
χ² / ndf 68.26 / 49
Constant 196.5 ± 12.0
MPV 586.5 ± 12.5
Sigma 134.3 ± 8.7
IST - MIP peak ZS, RDO4_ARM2_GROUP1 ZS_Section_41
Entries 921
Mean 989.8
RMS 696.5
χ² / ndf 80.59 / 48
Constant 163.6 ± 10.2
MPV 587.6 ± 19.3
Sigma 148.9 ± 10.8
IST - MIP peak ZS, RDO4_ARM3_GROUP0 ZS_Section_42
Entries 982
Mean 953
RMS 634
χ² / ndf 61.49 / 48
Constant 181.8 ± 11.1
MPV 629.6 ± 14.2
Sigma 147.8 ± 9.9
IST - MIP peak ZS, RDO4_ARM3_GROUP1 ZS_Section_43
Entries 1001
Mean 959.6
RMS 671.8
χ² / ndf 63.75 / 49
Constant 187.5 ± 11.3
MPV 597.1 ± 14.4
Sigma 148.8 ± 10.1
IST - MIP peak ZS, RDO4_ARM4_GROUP0 ZS_Section_44
Entries 950
Mean 974.3
RMS 677.9
χ² / ndf 50.38 / 48
Constant 149.1 ± 8.8
MPV 621.8 ± 26.1
Sigma 180.6 ± 13.7
IST - MIP peak ZS, RDO4_ARM4_GROUP1 ZS_Section_45
Entries 1010
Mean 898.1
RMS 674.2
χ² / ndf 51.05 / 48
Constant 178.2 ± 10.5
MPV 599.5 ± 18.6
Sigma 154.1 ± 10.7
IST - MIP peak ZS, RDO4_ARM5_GROUP0 ZS_Section_46
Entries 969
Mean 911.4
RMS 640.2
χ² / ndf 48.23 / 49
Constant 200.7 ± 11.2
MPV 594 ± 12.3
Sigma 131.8 ± 7.2
IST - MIP peak ZS, RDO4_ARM5_GROUP1 ZS_Section_47
Entries 971
Mean 1004
RMS 739.1
χ² / ndf 55.57 / 48
Constant 158.2 ± 9.9
MPV 556.1 ± 36.8
Sigma 177.4 ± 16.0
Pedestal Subtracted ADC [ADC Counts]

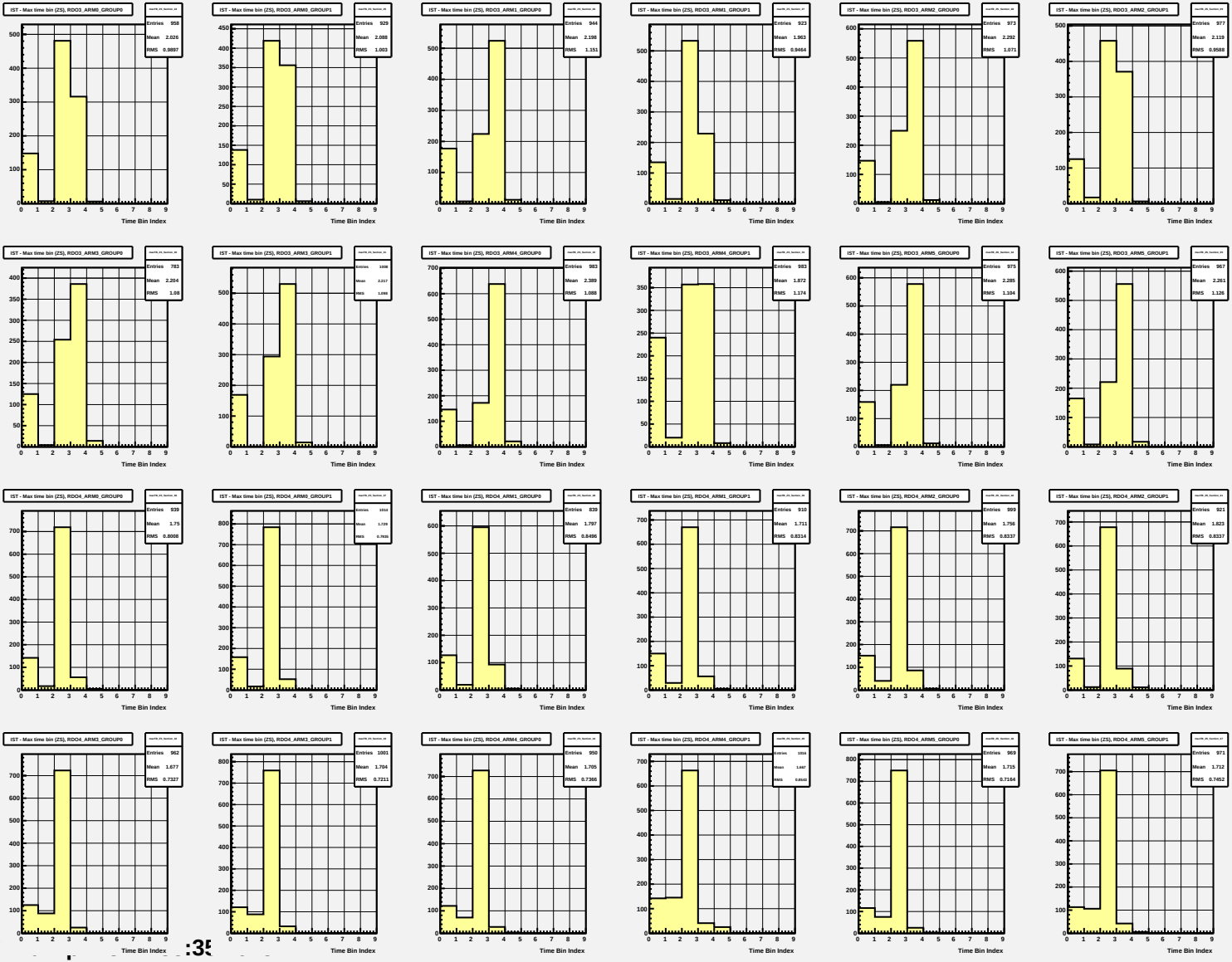

IST - MIP peak ZS, RDO5_ARM0_GROUP0 ZS_Section_48
Entries 969
Mean 925.1
RMS 688.9
χ² / ndf 56.31 / 48
Constant 154.6 ± 9.7
MPV 587.5 ± 27.5
Sigma 173 ± 14.9
IST - MIP peak ZS, RDO5_ARM0_GROUP1 ZS_Section_49
Entries 1135
Mean 882.2
RMS 663.4
χ² / ndf 72.15 / 49
Constant 209.9 ± 12.4
MPV 567.7 ± 14.0
Sigma 138.5 ± 9.3
IST - MIP peak ZS, RDO5_ARM1_GROUP0 ZS_Section_50
Entries 982
Mean 972.5
RMS 736.9
χ² / ndf 77.66 / 48
Constant 145.2 ± 9.0
MPV 579.9 ± 31.9
Sigma 179.4 ± 14.4
IST - MIP peak ZS, RDO5_ARM1_GROUP1 ZS_Section_51
Entries 949
Mean 970.2
RMS 687.3
χ² / ndf 49.71 / 48
Constant 167.6 ± 9.9
MPV 551.2 ± 38.6
Sigma 170.5 ± 13.7
IST - MIP peak ZS, RDO5_ARM2_GROUP0 ZS_Section_52
Entries 992
Mean 900.4
RMS 631.7
χ² / ndf 50.08 / 48
Constant 188.5 ± 11.2
MPV 586.4 ± 15.6
Sigma 148.8 ± 10.3
IST - MIP peak ZS, RDO5_ARM2_GROUP1 ZS_Section_53
Entries 933
Mean 951.1
RMS 689.3
χ² / ndf 57.77 / 47
Constant 158 ± 10.0
MPV 587.3 ± 24.8
Sigma 170.5 ± 14.5
IST - MIP peak ZS, RDO5_ARM3_GROUP0 ZS_Section_54
Entries 936
Mean 949.9
RMS 717.6
χ² / ndf 71.3 / 49
Constant 170.4 ± 10.6
MPV 565.5 ± 22.7
Sigma 142.2 ± 11.0
IST - MIP peak ZS, RDO5_ARM3_GROUP1 ZS_Section_55
Entries 914
Mean 940.6
RMS 652.4
χ² / ndf 47.41 / 49
Constant 169.4 ± 11.1
MPV 611.5 ± 14.1
Sigma 151 ± 11.0
IST - MIP peak ZS, RDO5_ARM4_GROUP0 ZS_Section_56
Entries 932
Mean 987.5
RMS 717.3
χ² / ndf 56.07 / 48
Constant 149 ± 9.1
MPV 629.2 ± 20.0
Sigma 163.4 ± 11.7
IST - MIP peak ZS, RDO5_ARM4_GROUP1 ZS_Section_57
Entries 867
Mean 945
RMS 654.9
χ² / ndf 60.07 / 48
Constant 148.4 ± 9.2
MPV 575.3 ± 31.6
Sigma 170.8 ± 13.9
IST - MIP peak ZS, RDO5_ARM5_GROUP0 ZS_Section_58
Entries 748
Mean 888.2
RMS 622.8
χ² / ndf 41.55 / 48
Constant 150.8 ± 10.3
MPV 563.1 ± 18.4
Sigma 142.9 ± 11.5
IST - MIP peak ZS, RDO5_ARM5_GROUP1 ZS_Section_59
Entries 908
Mean 929
RMS 666
χ² / ndf 52.15 / 48
Constant 170.1 ± 10.2
MPV 573.4 ± 24.8
Sigma 150.7 ± 11.6
IST - MIP peak ZS, RDO6_ARM0_GROUP0 ZS_Section_60
Entries 914
Mean 969.7
RMS 640.6
χ² / ndf 67.17 / 48
Constant 145.8 ± 8.6
MPV 594.2 ± 34.5
Sigma 192.8 ± 15.3
IST - MIP peak ZS, RDO6_ARM0_GROUP1 ZS_Section_61
Entries 479
Mean 935.8
RMS 622.6
χ² / ndf 56.31 / 48
Constant 85.3 ± 8.4
MPV 587 ± 22.0
Sigma 151.8 ± 18.3
IST - MIP peak ZS, RDO6_ARM1_GROUP0 ZS_Section_62
Entries 464
Mean 1016
RMS 719.2
χ² / ndf 63.77 / 45
Constant 71.01 ± 23.34
MPV 343.7 ± 338.8
Sigma 262.3 ± 43.1
IST - MIP peak ZS, RDO6_ARM1_GROUP1 ZS_Section_63
Entries 324
Mean 711.2
RMS 275
χ² / ndf 73.92 / 18
Constant 1.14e+04 ± 2.84e+01
MPV -565.9 ± 515.3
Sigma 17.48 ± 29.38
IST - MIP peak ZS, RDO6_ARM2_GROUP0 ZS_Section_64
Entries 621
Mean 823.1
RMS 517.9
χ² / ndf 70.21 / 49
Constant 185.4 ± 45.7
MPV 337.2 ± 113.8
Sigma 130.5 ± 10.4
IST - MIP peak ZS, RDO6_ARM2_GROUP1 ZS_Section_65
Entries 757
Mean 987.4
RMS 718.5
χ² / ndf 49.9 / 47
Constant 127.8 ± 13.2
MPV 475.4 ± 99.3
Sigma 206.5 ± 23.6
IST - MIP peak ZS, RDO6_ARM3_GROUP0 ZS_Section_66
Entries 744
Mean 981.2
RMS 691.4
χ² / ndf 50.85 / 48
Constant 134.3 ± 10.5
MPV 595.9 ± 19.1
Sigma 144.5 ± 14.1
IST - MIP peak ZS, RDO6_ARM3_GROUP1 ZS_Section_67
Entries 854
Mean 919.6
RMS 647.8
χ² / ndf 40.47 / 49
Constant 170.7 ± 10.8
MPV 574.2 ± 16.1
Sigma 146.7 ± 10.6
IST - MIP peak ZS, RDO6_ARM4_GROUP0 ZS_Section_68
Entries 830
Mean 985.4
RMS 691.9
χ² / ndf 92.41 / 47
Constant 153.6 ± 10.3
MPV 573.8 ± 19.6
Sigma 138.9 ± 10.8
IST - MIP peak ZS, RDO6_ARM4_GROUP1 ZS_Section_69
Entries 875
Mean 966.6
RMS 698.4
χ² / ndf 47.02 / 48
Constant 152 ± 9.3
MPV 582.9 ± 26.4
Sigma 159 ± 12.0
IST - MIP peak ZS, RDO6_ARM5_GROUP0 ZS_Section_70
Entries 847
Mean 987.5
RMS 711
χ² / ndf 33.56 / 49
Constant 161.6 ± 9.4
MPV 605.5 ± 19.6
Sigma 172.1 ± 11.9
IST - MIP peak ZS, RDO6_ARM5_GROUP1 ZS_Section_71
Entries 880
Mean 970.1
RMS 675
χ² / ndf 34.77 / 48
Constant 149.1 ± 9.2
MPV 596.3 ± 26.4
Sigma 169.4 ± 13.6
Pedestal Subtracted ADC [ADC Counts]

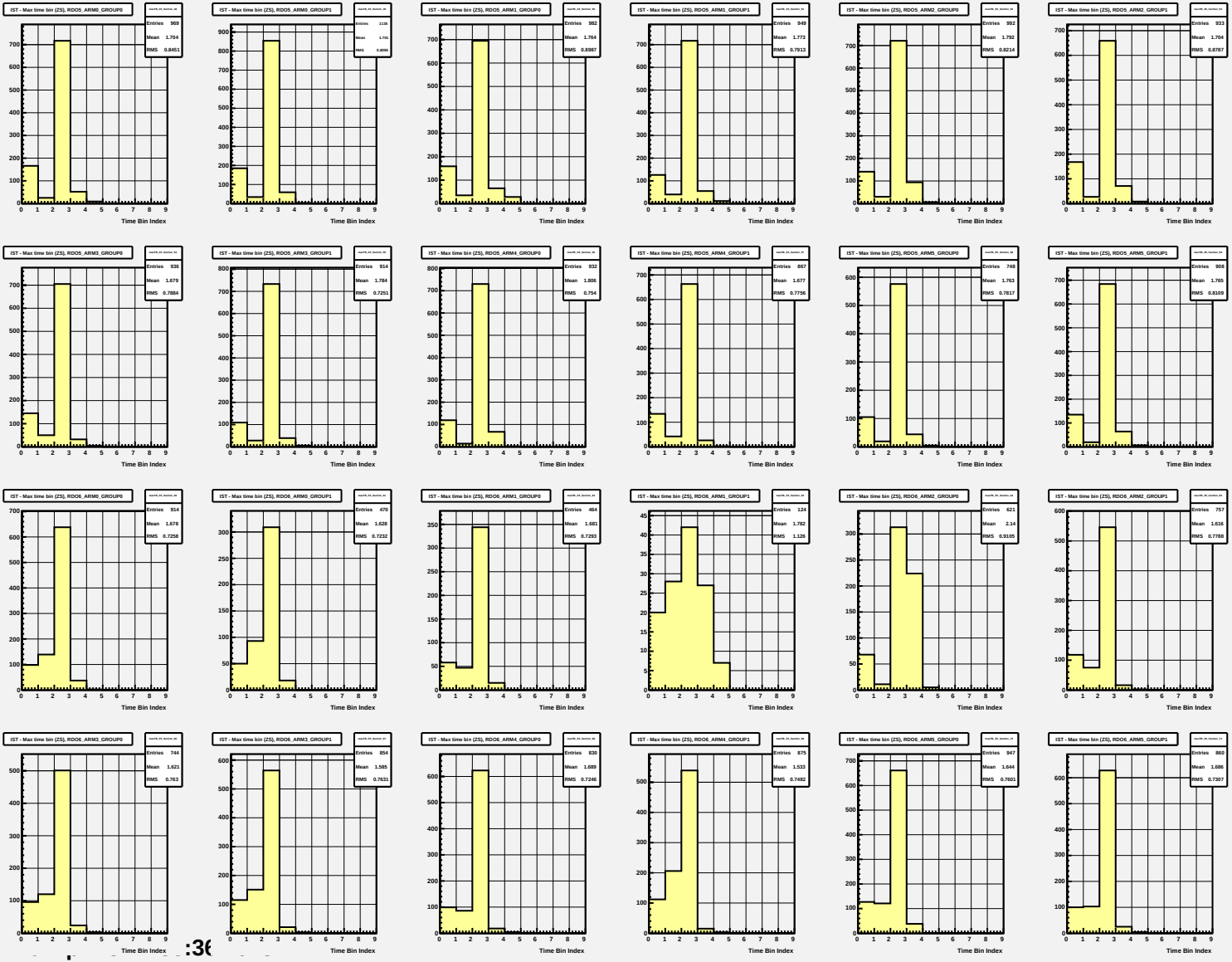

IST - MIP peak non-ZS, RDO1_ARM0_GROUP0 | onZS_Section_0
Entries 31
Mean 828.8
RMS 461.9
χ² / ndf 2.906 / 16
Constant 272.1 ± 3086.5
MPV -6168 ± 14134.2
Sigma 432.8 ± 2035.1
IST - MIP peak non-ZS, RDO1_ARM0_GROUP1 | onZS_Section_1
Entries 39
Mean 970.5
RMS 683.5
χ² / ndf 4.456 / 17
Constant 24.79 ± 42.53
MPV 6838 ± 2768.4
Sigma 3166 ± 1608.4
IST - MIP peak non-ZS, RDO1_ARM1_GROUP0 | onZS_Section_2
Entries 18
Mean 1057
RMS 765.2
χ² / ndf 1.64 / 7
Constant 8.695 ± 19.672
MPV 8467 ± 17591.0
Sigma 6038 ± 5448.1
IST - MIP peak non-ZS, RDO1_ARM1_GROUP1 | onZS_Section_3
Entries 32
Mean 735.1
RMS 484.7
χ² / ndf 2.78 / 15
Constant 10.9 ± 28.8
MPV -1115 ± 9674.8
Sigma 1109 ± 2505.3
IST - MIP peak non-ZS, RDO1_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
IST - MIP peak non-ZS, RDO1_ARM2_GROUP1 | onZS_Section_5
Entries 34
Mean 849.4
RMS 463.9
χ² / ndf 3.872 / 17
Constant 124.8 ± 1237.0
MPV -4931 ± 11526.7
Sigma 534.6 ± 2091.4
IST - MIP peak non-ZS, RDO1_ARM3_GROUP0 | onZS_Section_6
Entries 29
Mean 805.1
RMS 648.4
χ² / ndf 1.449 / 11
Constant 200.8 ± 1430.1
MPV -5542 ± 15468.4
Sigma 450.3 ± 1861.7
IST - MIP peak non-ZS, RDO1_ARM3_GROUP1 | onZS_Section_7
Entries 29
Mean 700.5
RMS 586
χ² / ndf 3.257 / 16
Constant 26.51 ± 99.87
MPV -1.411e+04 ± 3.895e+04
Sigma 3396 ± 2487.4
IST - MIP peak non-ZS, RDO1_ARM4_GROUP0 | onZS_Section_8
Entries 33
Mean 728.7
RMS 376.5
χ² / ndf 6.643 / 13
Constant 225.8 ± 1677.6
MPV -3275 ± 7664.7
Sigma 276 ± 1281.4
IST - MIP peak non-ZS, RDO1_ARM4_GROUP1 | onZS_Section_9
Entries 20
Mean 972.5
RMS 597.9
χ² / ndf 1.59 / 9
Constant 7.279 ± 9.519
MPV 4904 ± 18391.9
Sigma 4922 ± 4012.1
IST - MIP peak non-ZS, RDO1_ARM5_GROUP0 | onZS_Section_10
Entries 37
Mean 775.2
RMS 564.2
χ² / ndf 3.526 / 14
Constant 11.4 ± 2.8
MPV 604.9 ± 266.1
Sigma 264.5 ± 213.0
IST - MIP peak non-ZS, RDO1_ARM5_GROUP1 | onZS_Section_11
Entries 26
Mean 827.6
RMS 704.4
χ² / ndf 1.483 / 10
Constant 7.074 ± 2.435
MPV 791.4 ± 1445.1
Sigma 660.4 ± 2079.9
IST - MIP peak non-ZS, RDO2_ARM0_GROUP0 | onZS_Section_12
Entries 43
Mean 898.3
RMS 654
χ² / ndf 6.642 / 18
Constant 64.89 ± 675.00
MPV -7580 ± 26924.0
Sigma 1098 ± 2534.8
IST - MIP peak non-ZS, RDO2_ARM0_GROUP1 | onZS_Section_13
Entries 39
Mean 839.7
RMS 700.2
χ² / ndf 2.494 / 13
Constant 6.923 ± 16.803
MPV -837.4 ± 43979.1
Sigma 3619 ± 2438.2
IST - MIP peak non-ZS, RDO2_ARM1_GROUP0 | onZS_Section_14
Entries 35
Mean 1018
RMS 567.5
χ² / ndf 5.171 / 17
Constant 7.537 ± 2.033
MPV 935.4 ± 665.4
Sigma 644.8 ± 850.9
IST - MIP peak non-ZS, RDO2_ARM1_GROUP1 | onZS_Section_15
Entries 44
Mean 950.4
RMS 628.1
χ² / ndf 4.338 / 20
Constant 663.4 ± 3634.5
MPV -3297 ± 5219.2
Sigma 176.3 ± 468.1
IST - MIP peak non-ZS, RDO2_ARM2_GROUP0 | onZS_Section_16
Entries 36
Mean 876.6
RMS 646.5
χ² / ndf 2.296 / 17
Constant 212.1 ± 2172.2
MPV -7296 ± 21340.7
Sigma 554.7 ± 2385.6
IST - MIP peak non-ZS, RDO2_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
IST - MIP peak non-ZS, RDO2_ARM3_GROUP0 | onZS_Section_18
Entries 29
Mean 903.6
RMS 569.6
χ² / ndf 5.001 / 16
Constant 404 ± 2966.7
MPV -5067 ± 8523.5
Sigma 311.5 ± 981.0
IST - MIP peak non-ZS, RDO2_ARM3_GROUP1 | onZS_Section_19
Entries 26
Mean 1043
RMS 736.2
χ² / ndf 2.073 / 16
Constant 6.518 ± 2.131
MPV 732.1 ± 1558.0
Sigma 662.1 ± 1515.4
IST - MIP peak non-ZS, RDO2_ARM4_GROUP0 | onZS_Section_20
Entries 54
Mean 1121
RMS 839.6
χ² / ndf 4.105 / 21
Constant 576.8 ± 3304.0
MPV -5185 ± 10043.0
Sigma 270.8 ± 744.9
IST - MIP peak non-ZS, RDO2_ARM4_GROUP1 | onZS_Section_21
Entries 30
Mean 803.5
RMS 479
χ² / ndf 3.183 / 13
Constant 8.674 ± 2.650
MPV 960.7 ± 458.8
Sigma 536.7 ± 655.5
IST - MIP peak non-ZS, RDO2_ARM5_GROUP0 | onZS_Section_22
Entries 29
Mean 930.7
RMS 588.1
χ² / ndf 3.155 / 15
Constant 7.698 ± 2.349
MPV 675.7 ± 1246.4
Sigma 561.7 ± 1138.1
IST - MIP peak non-ZS, RDO2_ARM5_GROUP1 | onZS_Section_23
Entries 32
Mean 1124
RMS 897.5
χ² / ndf 0.9232 / 17
Constant 6.034 ± 1.810
MPV 1154 ± 1437.6
Sigma 1070 ± 2390.8
Pedestal Subtracted ADC [ADC Counts]


IST - MIP peak non-ZS, RDO3_ARM0_GROUP0
nZS_Section_24
Entries 55
Mean 954.2
RMS 607
χ² / ndf 9.419 / 20
Constant 8.422 ± 5.520
MPV 587.7 ± 5722.8
Sigma 1103 ± 1833.0
IST - MIP peak non-ZS, RDO3_ARM0_GROUP1
nZS_Section_25
Entries 41
Mean 1018
RMS 720.2
χ² / ndf 5.178 / 17
Constant 7.145 ± 2.095
MPV 1112 ± 638.6
Sigma 643.8 ± 881.0
IST - MIP peak non-ZS, RDO3_ARM1_GROUP0
nZS_Section_26
Entries 35
Mean 736.7
RMS 392.5
χ² / ndf 5.636 / 15
Constant 7.628 ± 7.144
MPV 443.9 ± 8189.0
Sigma 1136 ± 2283.4
IST - MIP peak non-ZS, RDO3_ARM1_GROUP1
nZS_Section_27
Entries 80
Mean 526.2
RMS 605.3
χ² / ndf 2.525 / 17
Constant 8.077 ± 2.554
MPV 873.7 ± 378.0
Sigma 511 ± 589.7
IST - MIP peak non-ZS, RDO3_ARM2_GROUP0
nZS_Section_28
Entries 23
Mean 1012
RMS 589.1
χ² / ndf 1.842 / 13
Constant 385.6 ± 7135.9
MPV -6079 ± 14110.5
Sigma 355 ± 4126.7
IST - MIP peak non-ZS, RDO3_ARM2_GROUP1
nZS_Section_29
Entries 39
Mean 1046
RMS 784.2
χ² / ndf 4.149 / 16
Constant 7.795 ± 2.713
MPV 862 ± 293.6
Sigma 382.7 ± 408.1
IST - MIP peak non-ZS, RDO3_ARM3_GROUP0
nZS_Section_30
Entries 15
Mean 776.9
RMS 444.8
χ² / ndf 0.7388 / 7
Constant 244 ± 2910.4
MPV -5467 ± 17550.4
Sigma 394.9 ± 2589.7
IST - MIP peak non-ZS, RDO3_ARM3_GROUP1
nZS_Section_31
Entries 47
Mean 755.7
RMS 578.7
χ² / ndf 5.987 / 18
Constant 114.6 ± 1712.7
MPV -2834 ± 7011.3
Sigma 361.6 ± 2563.6
IST - MIP peak non-ZS, RDO3_ARM4_GROUP0
nZS_Section_32
Entries 24
Mean 903.2
RMS 803.9
χ² / ndf 1.624 / 8
Constant 6.664 ± 2.655
MPV 975.8 ± 797.3
Sigma 539.7 ± 1740.8
IST - MIP peak non-ZS, RDO3_ARM4_GROUP1
nZS_Section_33
Entries 39
Mean 889.7
RMS 718.8
χ² / ndf 1.348 / 17
Constant 9.139 ± 275.216
MPV -8883 ± 303635.1
Sigma 3386 ± 2956.2
IST - MIP peak non-ZS, RDO3_ARM5_GROUP0
nZS_Section_34
Entries 31
Mean 773.8
RMS 615.5
χ² / ndf 3.004 / 13
Constant 582.6 ± 5304.9
MPV -3984 ± 6945.6
Sigma 206.7 ± 2219.0
IST - MIP peak non-ZS, RDO3_ARM5_GROUP1
nZS_Section_35
Entries 31
Mean 818
RMS 653.8
χ² / ndf 2.342 / 13
Constant 7.15 ± 2.69
MPV 936.6 ± 511.9
Sigma 517.6 ± 792.1
IST - MIP peak non-ZS, RDO4_ARM0_GROUP0
nZS_Section_36
Entries 42
Mean 782.6
RMS 431.2
χ² / ndf 7.836 / 17
Constant 482.6 ± 3092.6
MPV -3338 ± 4775.1
Sigma 206.4 ± 608.1
IST - MIP peak non-ZS, RDO4_ARM0_GROUP1
nZS_Section_37
Entries 31
Mean 954.9
RMS 724.9
χ² / ndf 2.691 / 14
Constant 3309 ± 22193.4
MPV -1812 ± 3090.6
Sigma 50.41 ± 182.58
IST - MIP peak non-ZS, RDO4_ARM1_GROUP0
nZS_Section_38
Entries 25
Mean 1062
RMS 736.6
χ² / ndf 2.486 / 10
Constant 8.287 ± 2.635
MPV 889.7 ± 473.4
Sigma 483.7 ± 587.5
IST - MIP peak non-ZS, RDO4_ARM1_GROUP1
nZS_Section_39
Entries 46
Mean 824.4
RMS 512.1
χ² / ndf 6.427 / 22
Constant 7.346 ± 1.832
MPV 950.2 ± 573.9
Sigma 672.4 ± 845.9
IST - MIP peak non-ZS, RDO4_ARM2_GROUP0
nZS_Section_40
Entries 41
Mean 916
RMS 656.9
χ² / ndf 3.872 / 16
Constant 8.469 ± 2.136
MPV 797.8 ± 647.2
Sigma 543.6 ± 655.1
IST - MIP peak non-ZS, RDO4_ARM2_GROUP1
nZS_Section_41
Entries 35
Mean 1075
RMS 763
χ² / ndf 2.995 / 16
Constant 1412 ± 6472.2
MPV -2612 ± 4054.0
Sigma 98.53 ± 212.14
IST - MIP peak non-ZS, RDO4_ARM3_GROUP0
nZS_Section_42
Entries 46
Mean 793.2
RMS 469.9
χ² / ndf 9.055 / 18
Constant 7.712 ± 1.950
MPV 1071 ± 978.1
Sigma 785.7 ± 2173.4
IST - MIP peak non-ZS, RDO4_ARM3_GROUP1
nZS_Section_43
Entries 37
Mean 954.3
RMS 468.1
χ² / ndf 4.644 / 20
Constant 6.98 ± 1.76
MPV 1457 ± 3176.7
Sigma 1440 ± 2744.4
IST - MIP peak non-ZS, RDO4_ARM4_GROUP0
nZS_Section_44
Entries 27
Mean 760
RMS 492.3
χ² / ndf 1.423 / 12
Constant 50.63 ± 862.89
MPV -1.138e+06 ± 6.935e+06
Sigma 1739 ± 2695.4
IST - MIP peak non-ZS, RDO4_ARM4_GROUP1
nZS_Section_45
Entries 34
Mean 870.6
RMS 447.9
χ² / ndf 5.411 / 17
Constant 99.25 ± 880.58
MPV -6361 ± 20017.7
Sigma 742.3 ± 2142.3
IST - MIP peak non-ZS, RDO4_ARM5_GROUP0
nZS_Section_46
Entries 44
Mean 896.9
RMS 605.8
χ² / ndf 4.228 / 18
Constant 2.073e+04 ± 6.993e+04
MPV -3664 ± 586.6
Sigma 6.392 ± 13.018
IST - MIP peak non-ZS, RDO4_ARM5_GROUP1
nZS_Section_47
Entries 37
Mean 1395
RMS 1094
χ² / ndf 1.675 / 13
Constant 15.94 ± 53.89
MPV -7725 ± 27318.5
Sigma 2790 ± 2238.3
Pedestal Subtracted ADC [ADC Counts]


IST - MIP peak non-ZS, RDO5_ARM0_GROUP0
nZS_Section_48
Entries 39
Mean 1118
RMS 682.9
χ² / ndf 3.894 / 20
Constant 7.016 ± 2.242
MPV 1174 ± 1435.8
Sigma 989.3 ± 2107.3
IST - MIP peak non-ZS, RDO5_ARM0_GROUP1
nZS_Section_49
Entries 30
Mean 973.7
RMS 714
χ² / ndf 2.262 / 17
Constant 320.4 ± 3250.8
MPV -4955 ± 11147.0
Sigma 315.2 ± 2057.1
IST - MIP peak non-ZS, RDO5_ARM1_GROUP0
nZS_Section_50
Entries 36
Mean 1001
RMS 787.4
χ² / ndf 2.995 / 15
Constant 51.27 ± 1546.36
MPV -4428 ± 38893.4
Sigma 800.6 ± 2057.1
IST - MIP peak non-ZS, RDO5_ARM1_GROUP1
nZS_Section_51
Entries 34
Mean 957.7
RMS 612.6
χ² / ndf 2.827 / 17
Constant 61.84 ± 1585.78
MPV -5054 ± 32374.7
Sigma 810.9 ± 3183.3
IST - MIP peak non-ZS, RDO5_ARM2_GROUP0
nZS_Section_52
Entries 37
Mean 892.9
RMS 728.9
χ² / ndf 4.134 / 16
Constant 6.855 ± 2.453
MPV 863.4 ± 833.7
Sigma 729.3 ± 2361.5
IST - MIP peak non-ZS, RDO5_ARM2_GROUP1
nZS_Section_53
Entries 30
Mean 781.2
RMS 545
χ² / ndf 3.051 / 14
Constant 431.4 ± 4424.7
MPV -3577 ± 6221.0
Sigma 213.7 ± 2027.4
IST - MIP peak non-ZS, RDO5_ARM3_GROUP0
nZS_Section_54
Entries 37
Mean 770.5
RMS 479.3
χ² / ndf 3.429 / 18
Constant 57.91 ± 350.68
MPV -6021 ± 17010.5
Sigma 930.5 ± 2527.5
IST - MIP peak non-ZS, RDO5_ARM3_GROUP1
nZS_Section_55
Entries 49
Mean 889.7
RMS 714
χ² / ndf 4.269 / 21
Constant 99.33 ± 1763.35
MPV -1.023e+04 ± 3.723e+04
Sigma 1128 ± 4433.7
IST - MIP peak non-ZS, RDO5_ARM4_GROUP0
nZS_Section_56
Entries 34
Mean 868.5
RMS 631.2
χ² / ndf 2.938 / 15
Constant 6.336 ± 1.904
MPV 1058 ± 1667.4
Sigma 991 ± 2195.9
IST - MIP peak non-ZS, RDO5_ARM4_GROUP1
nZS_Section_57
Entries 30
Mean 763.4
RMS 520.6
χ² / ndf 2.529 / 12
Constant 8.072 ± 2.551
MPV 745.7 ± 472.3
Sigma 420.3 ± 578.1
IST - MIP peak non-ZS, RDO5_ARM5_GROUP0
nZS_Section_58
Entries 27
Mean 972.7
RMS 683.8
χ² / ndf 1.687 / 14
Constant 6.427 ± 2.414
MPV 1237 ± 1191.0
Sigma 854.3 ± 2652.6
IST - MIP peak non-ZS, RDO5_ARM5_GROUP1
nZS_Section_59
Entries 38
Mean 864.4
RMS 538
χ² / ndf 4.274 / 19
Constant 153.8 ± 977.5
MPV -6190 ± 9981.4
Sigma 566.7 ± 2209.4
IST - MIP peak non-ZS, RDO6_ARM0_GROUP0
nZS_Section_60
Entries 33
Mean 914.6
RMS 509.6
χ² / ndf 3.481 / 17
Constant 8.154 ± 2.635
MPV 1036 ± 375.3
Sigma 523.7 ± 535.0
IST - MIP peak non-ZS, RDO6_ARM0_GROUP1
nZS_Section_61
Entries 18
Mean 1026
RMS 745.1
χ² / ndf 1.889 / 7
Constant 7.459 ± 3.537
MPV 1142 ± 771.0
Sigma 690.9 ± 1091.6
IST - MIP peak non-ZS, RDO6_ARM1_GROUP0
nZS_Section_62
Entries 11
Mean 1012
RMS 663.6
χ² / ndf 2.097e-05 / 5
Constant 5.548 ± 2.303
MPV 1611 ± 29672.1
Sigma 3281 ± 2827.1
IST - MIP peak non-ZS, RDO6_ARM1_GROUP1
nZS_Section_63
Entries 5
Mean 628.4
RMS 165.9
χ² / ndf 4.64e-09 / 0
Constant 16.8 ± 46.0
MPV 730.1 ± 726.9
Sigma 22.74 ± 80.04
IST - MIP peak non-ZS, RDO6_ARM2_GROUP0
nZS_Section_64
Entries 19
Mean 683.2
RMS 421.5
χ² / ndf 1.631 / 10
Constant 98.62 ± 1158.01
MPV -9129 ± 33529.3
Sigma 958.6 ± 3577.5
IST - MIP peak non-ZS, RDO6_ARM2_GROUP1
nZS_Section_65
Entries 24
Mean 1027
RMS 568.4
χ² / ndf 1.838 / 14
Constant 8.617 ± 4.605
MPV 957 ± 291.2
Sigma 422.9 ± 463.9
IST - MIP peak non-ZS, RDO6_ARM3_GROUP0
nZS_Section_66
Entries 49
Mean 688.7
RMS 497.4
χ² / ndf 4.208 / 12
Constant 9.145 ± 34.812
MPV 96.63 ± 1171.690
Sigma 672.3 ± 1879.1
IST - MIP peak non-ZS, RDO6_ARM3_GROUP1
nZS_Section_67
Entries 32
Mean 856
RMS 659
χ² / ndf 3.883 / 14
Constant 233.2 ± 2120.7
MPV -6407 ± 25471.2
Sigma 479.2 ± 2280.8
IST - MIP peak non-ZS, RDO6_ARM4_GROUP0
nZS_Section_68
Entries 28
Mean 1221
RMS 904.6
χ² / ndf 0.8459 / 10
Constant 6.506 ± 2.605
MPV 1017 ± 712.6
Sigma 596.6 ± 1103.8
IST - MIP peak non-ZS, RDO6_ARM4_GROUP1
nZS_Section_69
Entries 29
Mean 828.6
RMS 605.6
χ² / ndf 2.446 / 13
Constant 6.69 ± 4.64
MPV 635.3 ± 8012.9
Sigma 1204 ± 2279.0
IST - MIP peak non-ZS, RDO6_ARM5_GROUP0
nZS_Section_70
Entries 31
Mean 840.3
RMS 648.9
χ² / ndf 3.028 / 14
Constant 183.1 ± 1876.9
MPV -6893 ± 17661.7
Sigma 567 ± 2607.4
IST - MIP peak non-ZS, RDO6_ARM5_GROUP1
nZS_Section_71
Entries 34
Mean 877.4
RMS 738.7
χ² / ndf 3.02 / 11
Constant 18.97 ± 171.29
MPV -69.82 ± 2963.649
Sigma 863.8 ± 1348.9
Pedestal Subtracted ADC [ADC Counts]


IST - Max time bin (ZS), RDO1_ARM0_GROUP0
Entries 904
Mean 2.493
RMS 0.981
IST - Max time bin (ZS), RDO1_ARM0_GROUP1
Entries 795
Mean 2.421
RMS 0.9942
IST - Max time bin (ZS), RDO1_ARM1_GROUP0
Entries 913
Mean 2.369
RMS 1.13
IST - Max time bin (ZS), RDO1_ARM1_GROUP1
Entries 799
Mean 2.219
RMS 1.017
IST - Max time bin (ZS), RDO1_ARM2_GROUP0
Entries 0
Mean 0
RMS 0
IST - Max time bin (ZS), RDO1_ARM2_GROUP1
Entries 955
Mean 2.44
RMS 0.9822
IST - Max time bin (ZS), RDO1_ARM3_GROUP0
Entries 900
Mean 1.946
RMS 0.9106
IST - Max time bin (ZS), RDO1_ARM3_GROUP1
Entries 989
Mean 2.026
RMS 1.021
IST - Max time bin (ZS), RDO1_ARM4_GROUP0
Entries 893
Mean 2.091
RMS 1.009
IST - Max time bin (ZS), RDO1_ARM4_GROUP1
Entries 877
Mean 1.905
RMS 0.889
IST - Max time bin (ZS), RDO1_ARM5_GROUP0
Entries 961
Mean 2.097
RMS 0.9427
IST - Max time bin (ZS), RDO1_ARM5_GROUP1
Entries 975
Mean 2.075
RMS 1.017
IST - Max time bin (ZS), RDO2_ARM0_GROUP0
Entries 894
Mean 1.852
RMS 0.9765
IST - Max time bin (ZS), RDO2_ARM0_GROUP1
IST - Max time bin (ZS), RDO2_ARM1_GROUP0
Entries 817
Mean 2.146
RMS 1.009
IST - Max time bin (ZS), RDO2_ARM1_GROUP1
Entries 868
Mean 1.957
RMS 0.8890
IST - Max time bin (ZS), RDO2_ARM2_GROUP0
Entries 953
Mean 1.998
RMS 0.9879
IST - Max time bin (ZS), RDO2_ARM2_GROUP1
Entries 0
Mean 0
RMS 0
IST - Max time bin (ZS), RDO2_ARM3_GROUP0
Entries 857
Mean 1.937
RMS 0.9689
IST - Max time bin (ZS), RDO2_ARM3_GROUP1
Entries 922
Mean 1.985
RMS 0.9724
IST - Max time bin (ZS), RDO2_ARM4_GROUP0
Entries 984
Mean 2.117
RMS 1.036
IST - Max time bin (ZS), RDO2_ARM4_GROUP1
Entries 851
Mean 1.874
RMS 0.917
IST - Max time bin (ZS), RDO2_ARM5_GROUP0
Entries 937
Mean 1.951
RMS 0.9523
IST - Max time bin (ZS), RDO2_ARM5_GROUP1
Time Bin Index


IST - Max time bin (ZS), RDO3_ARM0_GROUP0
Entries 958
Mean 2.626
RMS 0.9897
IST - Max time bin (ZS), RDO3_ARM0_GROUP1
Entries 929
Mean 2.088
RMS 1.003
IST - Max time bin (ZS), RDO3_ARM1_GROUP0
Entries 944
Mean 2.198
RMS 1.151
IST - Max time bin (ZS), RDO3_ARM1_GROUP1
Entries 923
Mean 1.963
RMS 0.9464
IST - Max time bin (ZS), RDO3_ARM2_GROUP0
Entries 973
Mean 2.292
RMS 1.071
IST - Max time bin (ZS), RDO3_ARM2_GROUP1
Entries 977
Mean 2.119
RMS 0.9588
IST - Max time bin (ZS), RDO3_ARM3_GROUP0
Entries 783
Mean 2.204
RMS 1.08
IST - Max time bin (ZS), RDO3_ARM3_GROUP1
Entries 1008
Mean 2.237
RMS 1.086
IST - Max time bin (ZS), RDO3_ARM4_GROUP0
Entries 983
Mean 2.389
RMS 1.088
IST - Max time bin (ZS), RDO3_ARM4_GROUP1
Entries 983
Mean 1.872
RMS 1.174
IST - Max time bin (ZS), RDO3_ARM5_GROUP0
Entries 975
Mean 2.285
RMS 1.104
IST - Max time bin (ZS), RDO3_ARM5_GROUP1
Entries 967
Mean 2.261
RMS 1.126
IST - Max time bin (ZS), RDO4_ARM0_GROUP0
Entries 939
Mean 1.75
RMS 0.8008
IST - Max time bin (ZS), RDO4_ARM0_GROUP1
Entries 1014
Mean 1.728
RMS 0.7935
IST - Max time bin (ZS), RDO4_ARM1_GROUP0
Entries 839
Mean 1.797
RMS 0.8496
IST - Max time bin (ZS), RDO4_ARM1_GROUP1
Entries 910
Mean 1.711
RMS 0.8314
IST - Max time bin (ZS), RDO4_ARM2_GROUP0
Entries 999
Mean 1.756
RMS 0.8337
IST - Max time bin (ZS), RDO4_ARM2_GROUP1
Entries 921
Mean 1.823
RMS 0.8337
IST - Max time bin (ZS), RDO4_ARM3_GROUP0
Entries 962
Mean 1.677
RMS 0.7327
IST - Max time bin (ZS), RDO4_ARM3_GROUP1
Entries 1001
Mean 1.704
RMS 0.7211
IST - Max time bin (ZS), RDO4_ARM4_GROUP0
Entries 950
Mean 1.705
RMS 0.7366
IST - Max time bin (ZS), RDO4_ARM4_GROUP1
Entries 1014
Mean 1.687
RMS 0.8452
IST - Max time bin (ZS), RDO4_ARM5_GROUP0
Entries 969
Mean 1.715
RMS 0.7164
IST - Max time bin (ZS), RDO4_ARM5_GROUP1
Entries 971
Mean 1.712
RMS 0.7452
Time Bin Index


IST - Max time bin (ZS), RD05_ARM0_GROUP0
Entries 969
Mean 1.704
RMS 0.8451
IST - Max time bin (ZS), RD05_ARM0_GROUP1
Entries 1135
Mean 1.701
RMS 0.8096
IST - Max time bin (ZS), RD05_ARM1_GROUP0
Entries 982
Mean 1.764
RMS 0.8987
IST - Max time bin (ZS), RD05_ARM1_GROUP1
Entries 949
Mean 1.773
RMS 0.7913
IST - Max time bin (ZS), RD05_ARM2_GROUP0
Entries 992
Mean 1.792
RMS 0.8214
IST - Max time bin (ZS), RD05_ARM2_GROUP1
Entries 933
Mean 1.704
RMS 0.8787
IST - Max time bin (ZS), RD05_ARM3_GROUP0
Entries 938
Mean 1.679
RMS 0.7884
IST - Max time bin (ZS), RD05_ARM3_GROUP1
Entries 914
Mean 1.784
RMS 0.7251
IST - Max time bin (ZS), RD05_ARM4_GROUP0
Entries 932
Mean 1.806
RMS 0.754
IST - Max time bin (ZS), RD05_ARM4_GROUP1
Entries 867
Mean 1.677
RMS 0.7756
IST - Max time bin (ZS), RD05_ARM5_GROUP0
Entries 748
Mean 1.763
RMS 0.7817
IST - Max time bin (ZS), RD05_ARM5_GROUP1
Entries 908
Mean 1.765
RMS 0.8109
IST - Max time bin (ZS), RD06_ARM0_GROUP0
Entries 914
Mean 1.678
RMS 0.7258
IST - Max time bin (ZS), RD06_ARM0_GROUP1
Entries 470
Mean 1.628
RMS 0.7232
IST - Max time bin (ZS), RD06_ARM1_GROUP0
Entries 464
Mean 1.681
RMS 0.7293
IST - Max time bin (ZS), RD06_ARM1_GROUP1
Entries 124
Mean 1.782
RMS 1.126
IST - Max time bin (ZS), RD06_ARM2_GROUP0
Entries 621
Mean 2.14
RMS 0.9105
IST - Max time bin (ZS), RD06_ARM2_GROUP1
Entries 757
Mean 1.616
RMS 0.7788
IST - Max time bin (ZS), RD06_ARM3_GROUP0
Entries 744
Mean 1.621
RMS 0.763
IST - Max time bin (ZS), RD06_ARM3_GROUP1
Entries 854
Mean 1.585
RMS 0.7631
IST - Max time bin (ZS), RD06_ARM4_GROUP0
Entries 830
Mean 1.689
RMS 0.7246
IST - Max time bin (ZS), RD06_ARM4_GROUP1
Entries 875
Mean 1.533
RMS 0.7482
IST - Max time bin (ZS), RD06_ARM5_GROUP0
Entries 947
Mean 1.644
RMS 0.7601
IST - Max time bin (ZS), RD06_ARM5_GROUP1
Entries 860
Mean 1.686
RMS 0.7307
Time Bin Index

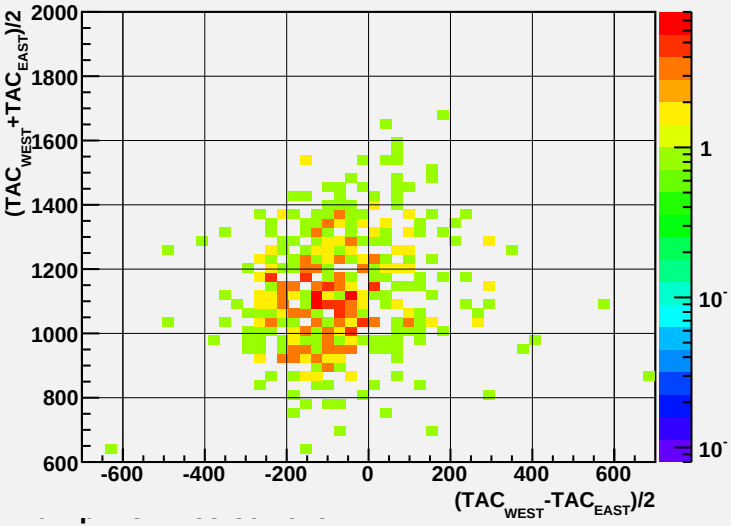
PMT_STATUS <ADC>

	E1U	E1D	E2U	E2D	W1U	W1D	W2U	W2D
PMT2	34.55	57.31	34.58	31.67	50.85	35.47	44.41	47.89
PMT1	39.20	52.69	51.68	51.84	39.18	62.26	36.12	37.66

SVX_STATUS <ADC>

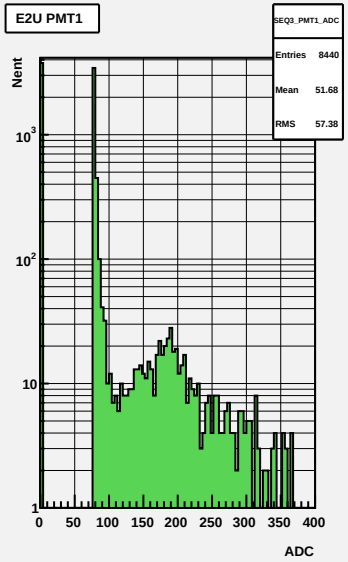
	SVX0	SVX1	SVX2	SVX3	SVX4	SVX5
W2D_D	0.04	0.04	0.06	0.05	0.04	0.04
W2D_C	0.05	0.05	0.06	0.06		
W2D_B	0.05	0.07	0.06	0.05	0.06	0.03
W2D_A	0.07	0.06	0.05	0.04		
W2U_D	0.06	0.06	0.06	0.07	0.06	0.05
W2U_C	0.05	0.05	0.05	0.04		
W2U_B	0.06	0.08	0.06	0.07	0.06	0.05
W2U_A	0.05	0.05	0.05	0.05		
W1D_D	0.05	0.06	0.06	0.07	0.06	0.04
W1D_C	0.08	0.06	0.06	0.04		
W1D_B	0.05	0.07	0.06	0.06	0.07	0.04
W1D_A	0.05	0.04	0.06	0.05		
W1U_D	0.05	0.10	0.07	0.08	0.11	0.05
W1U_C	0.08	0.06	0.06	0.05		
W1U_B	0.06	0.18	0.11	0.10	0.11	0.04
W1U_A	0.08	0.07	0.06	0.05		
E2D_D	0.03	0.04	0.05	0.05	0.07	0.05
E2D_C	0.08	0.08	0.06	0.05		
E2D_B	0.06	0.09	0.08	0.07	0.08	0.06
E2D_A	0.07	0.08	0.07	0.05		
E2U_D	0.01	0.02	0.02	0.02	0.01	0.01
E2U_C	0.08	0.05	0.05	0.05		
E2U_B	0.05	0.05	0.06	0.05	0.06	0.05
E2U_A	0.06	0.07	0.05			
E1D_D	0.06	0.08	0.07	0.07	0.09	0.06
E1D_C	0.06	0.07	0.05	0.05		
E1D_B	0.06	0.07	0.07	0.07	0.07	0.05
E1D_A	0.07	0.07	0.05	0.04		
E1U_D	0.05	0.05	0.06	0.05	0.05	0.04
E1U_C	0.07	0.06	0.04	0.04		
E1U_B	0.06	0.06	0.06	0.07	0.08	0.04
E1U_A	0.08	0.06	0.06	0.05		

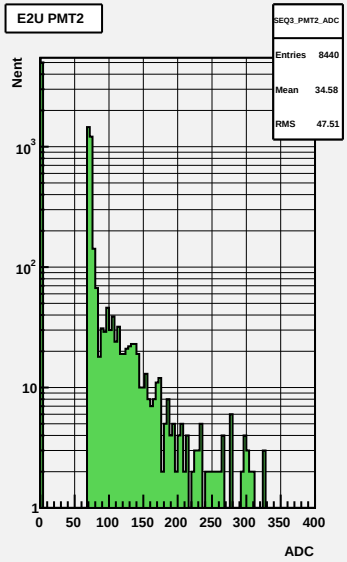
PMT Time vs z-vertex

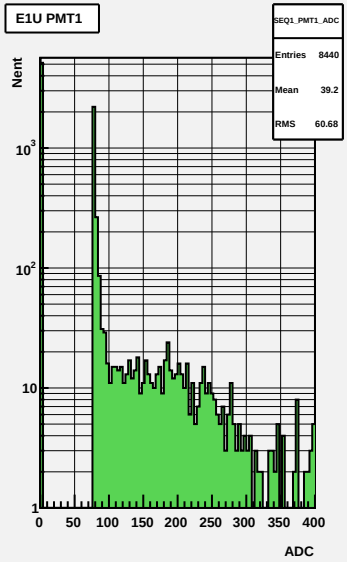


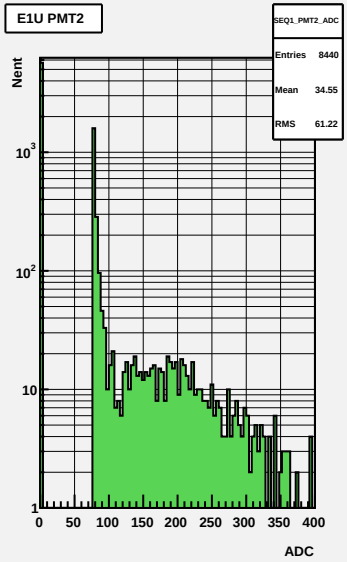
SVX_NCH <average fraction of chnls read>

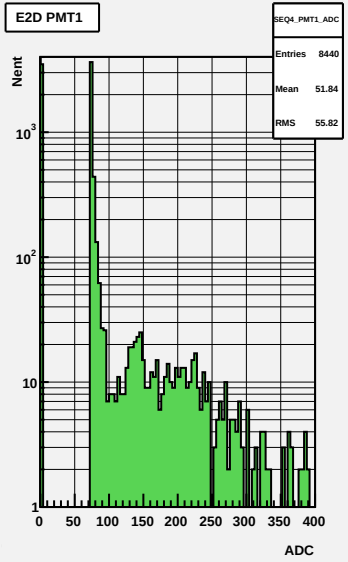
	SVX0	SVX1	SVX2	SVX3	SVX4	SVX5
W2D_D	0.00	0.00	0.00	0.00	0.00	0.00
W2D_C	0.00	0.00	0.00	0.00		
W2D_B	0.00	0.00	0.00	0.00	0.00	0.00
W2D_A	0.00	0.00	0.00	0.00		
W2U_D	0.00	0.00	0.00	0.00	0.00	0.00
W2U_C	0.00	0.00	0.00	0.00		
W2U_B	0.00	0.00	0.00	0.00	0.00	0.00
W2U_A	0.00	0.00	0.00	0.00		
W1D_D	0.00	0.00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

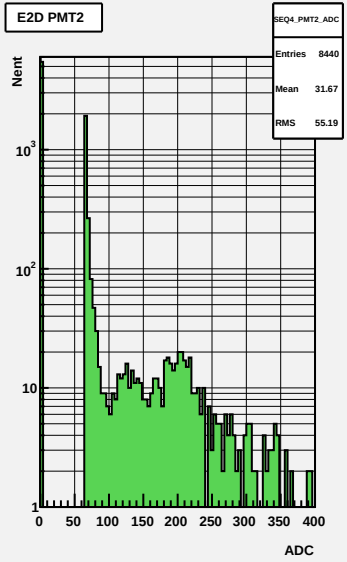

E2U PMT1
SEQ3_PMT1_ADC
Entries 8440
Mean 51.68
RMS 57.38
Nent
ADC

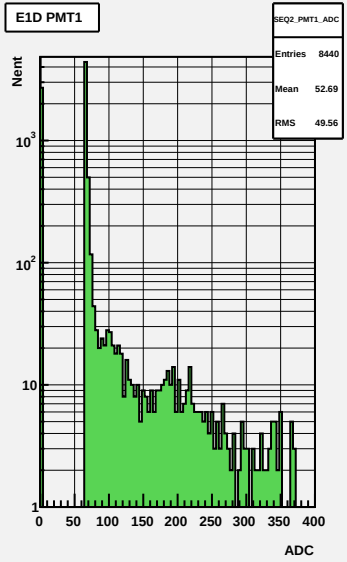

E2U PMT2
SEQ3_PMT2_ADC
Entries 8440
Mean 34.58
RMS 47.51
Nent
ADC

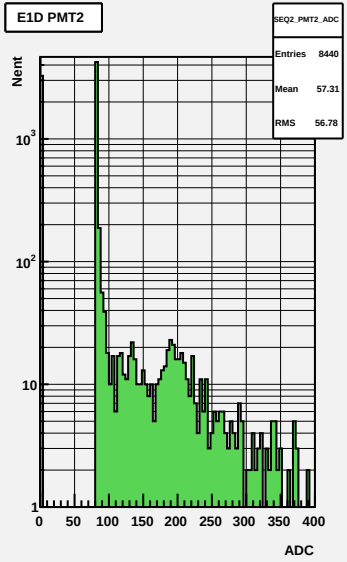

E1U PMT1
SEQ1_PMT1_ADC
Entries 8440
Mean 39.2
RMS 60.68
Nent
ADC

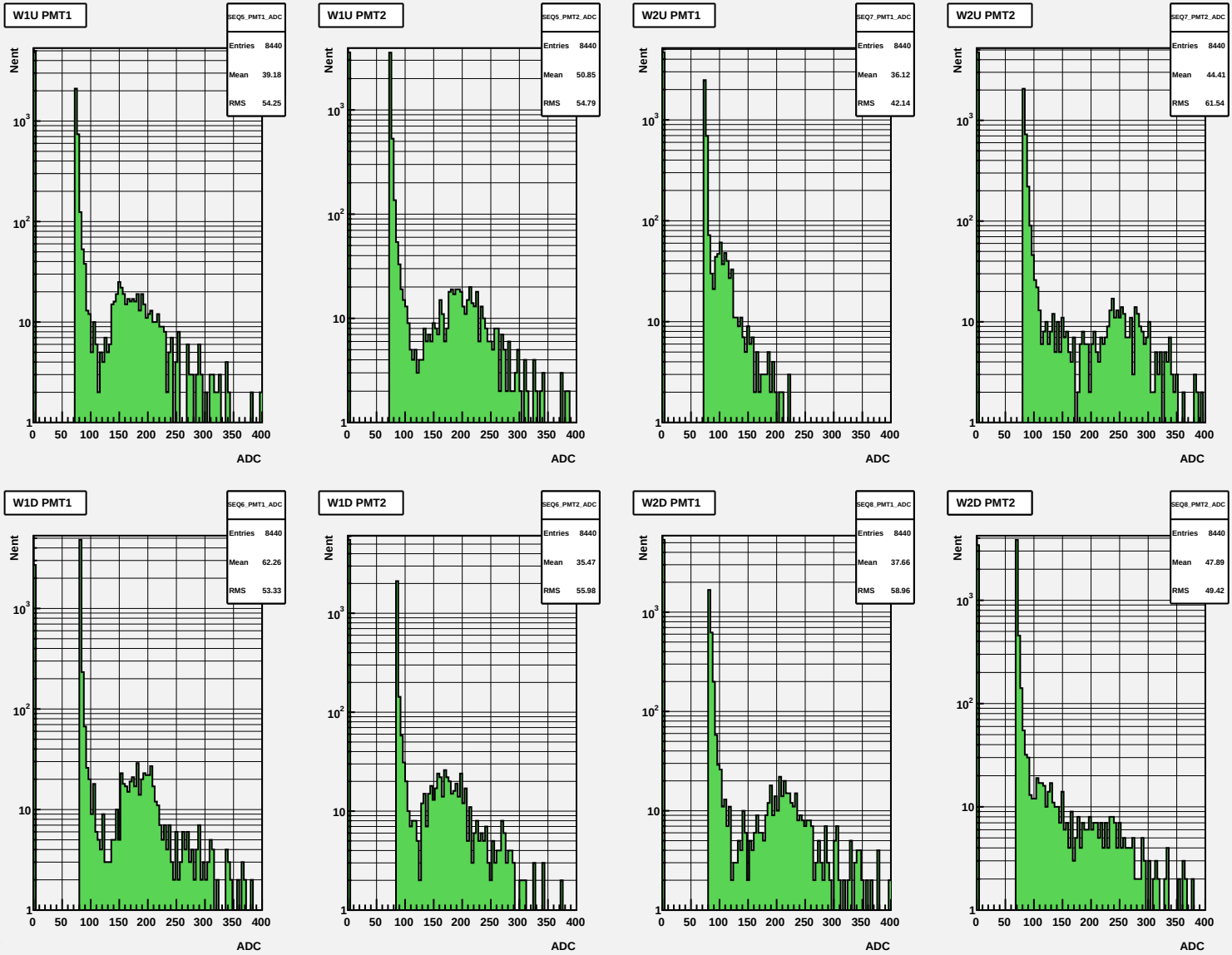

E1U PMT2
SEQ1_PMT2_ADC
Entries 8440
Mean 34.55
RMS 61.22
Nent
ADC


E2D PMT1
SEQ4_PMT1_ADC
Entries 8440
Mean 51.84
RMS 55.82
Nent
ADC


E2D PMT2
SEQ4_PMT2_ADC
Entries 8440
Mean 31.67
RMS 55.19
Nent
ADC


E1D PMT1
SEQ2_PMT1_ADC
Entries 8440
Mean 52.69
RMS 49.56
Nent
ADC


E1D PMT2
SEQ2_PMT2_ADC
Entries 8440
Mean 57.31
RMS 56.78
Nent
ADC


W1U PMT1
SEQ5_PMT1_ADC
Entries 8440
Mean 39.18
RMS 54.25
W1U PMT2
SEQ5_PMT2_ADC
Entries 8440
Mean 50.85
RMS 54.79
W2U PMT1
SEQ7_PMT1_ADC
Entries 8440
Mean 36.12
RMS 42.14
W2U PMT2
SEQ7_PMT2_ADC
Entries 8440
Mean 44.41
RMS 61.54
W1D PMT1
SEQ6_PMT1_ADC
Entries 8440
Mean 62.26
RMS 53.33
W1D PMT2
SEQ6_PMT2_ADC
Entries 8440
Mean 35.47
RMS 55.98
W2D PMT1
SEQ8_PMT1_ADC
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RMS 58.96
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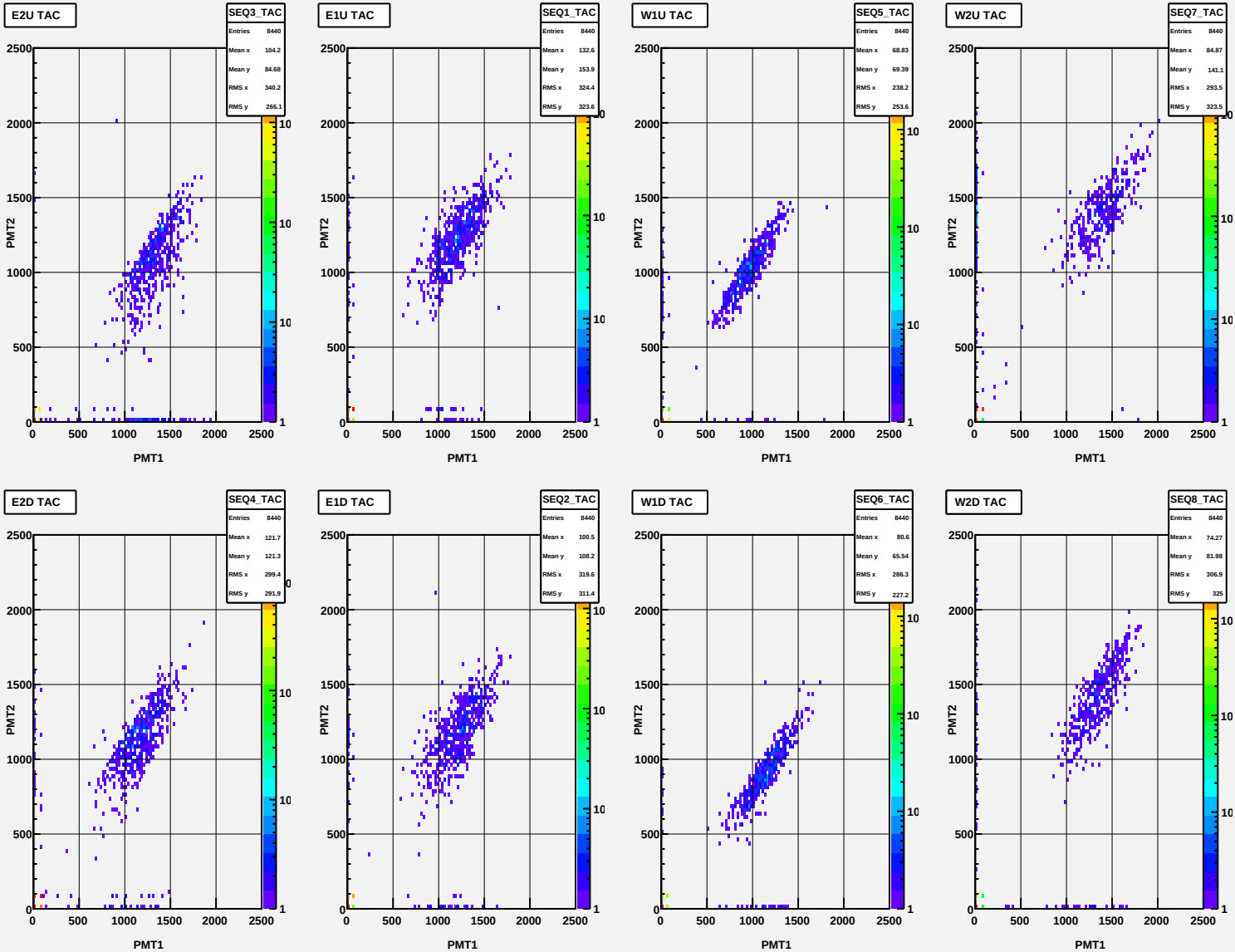
SEQ8_PMT2_ADC
Entries 8440
Mean 47.89
RMS 49.42
Nent
ADC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Mean y 84.68
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E1U TAC
SEQ1_TAC
Entries 8440
Mean x 132.6
Mean y 153.9
RMS x 324.4
RMS y 323.6
W1U TAC
SEQ5_TAC
Entries 8440
Mean x 68.83
Mean y 69.39
RMS x 238.2
RMS y 253.6
W2U TAC
SEQ7_TAC
Entries 8440
Mean x 84.87
Mean y 141.1
RMS x 293.5
RMS y 323.5
E2D TAC
SEQ4_TAC
Entries 8440
Mean x 121.7
Mean y 121.3
RMS x 299.4
RMS y 291.9
E1D TAC
SEQ2_TAC
Entries 8440
Mean x 100.5
Mean y 108.2
RMS x 319.6
RMS y 311.4
W1D TAC
SEQ6_TAC
Entries 8440
Mean x 80.6
Mean y 65.54
RMS x 286.3
RMS y 227.2
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Mean x 74.27
Mean y 81.98
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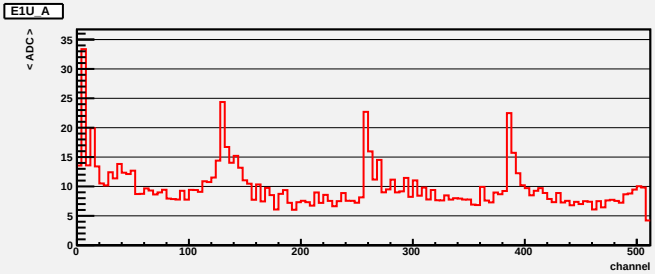
RMS y 325
PMT1
PMT2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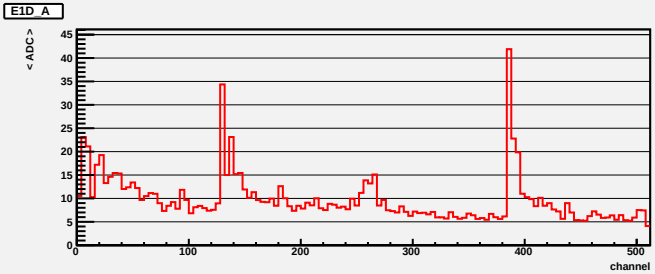
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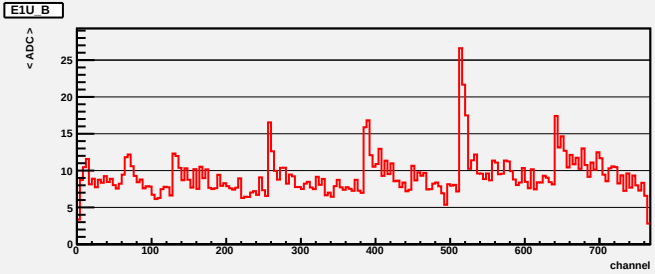
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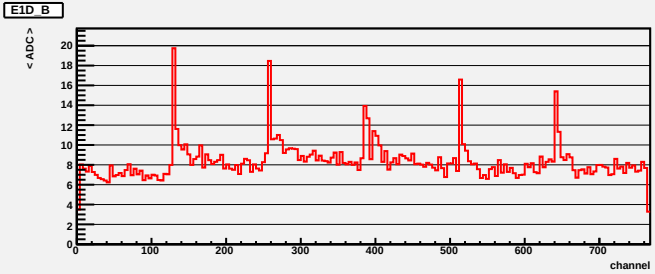
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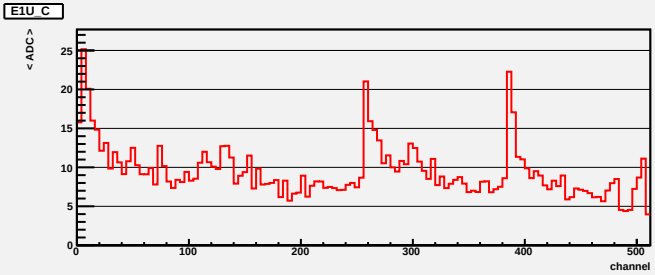
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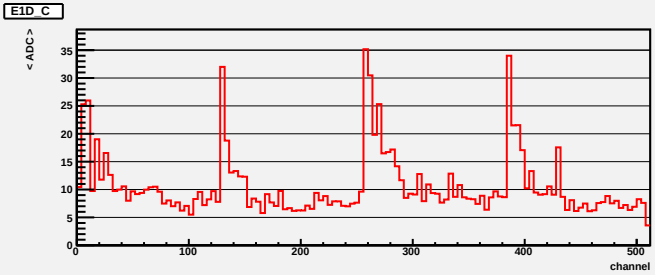
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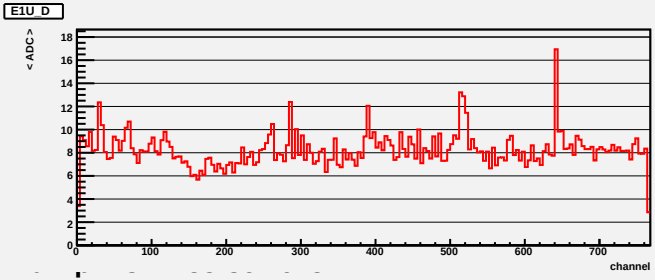
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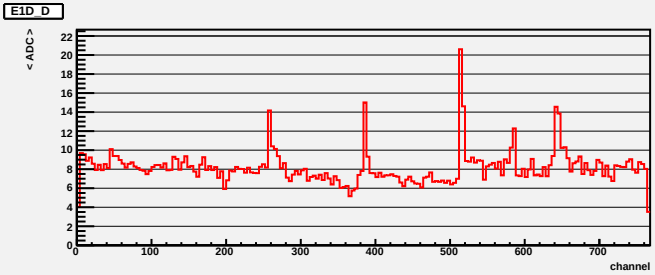
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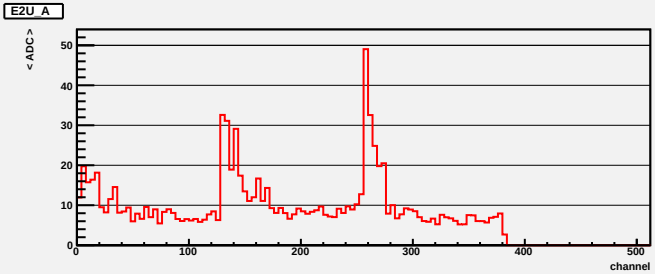
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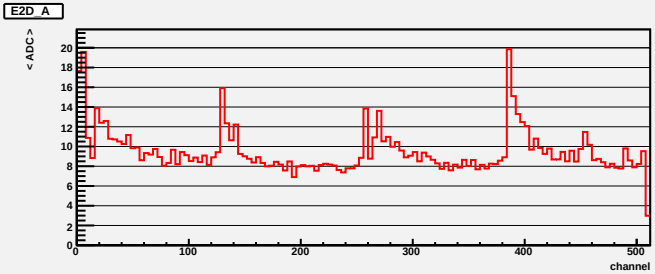
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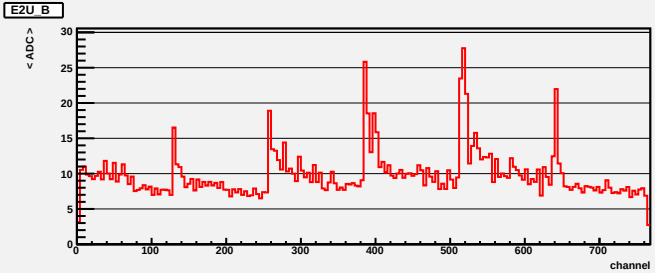
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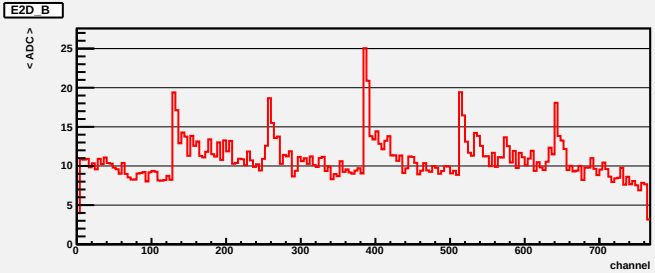
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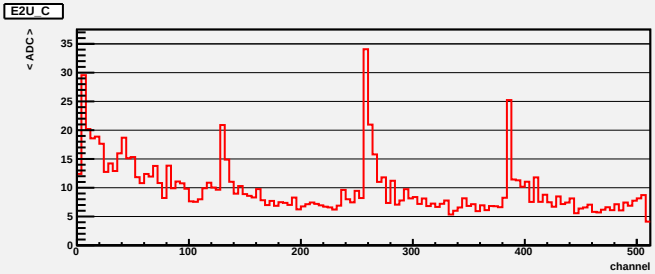
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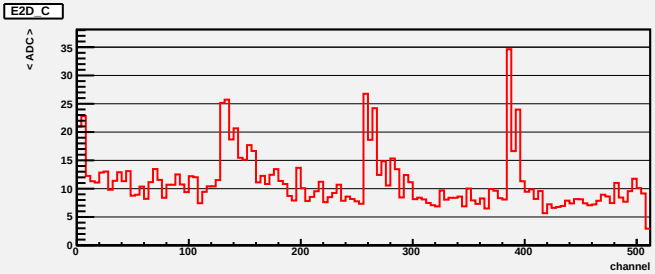
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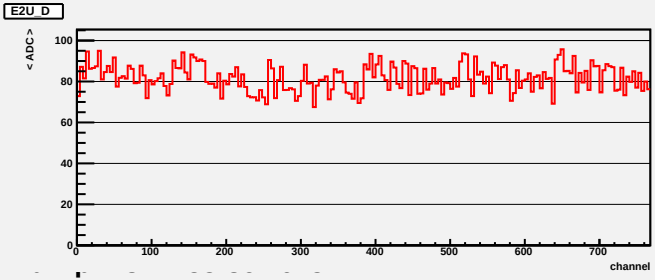
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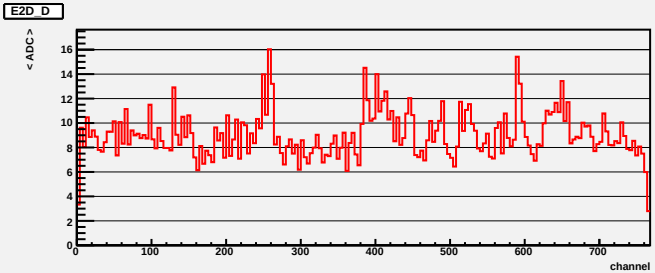
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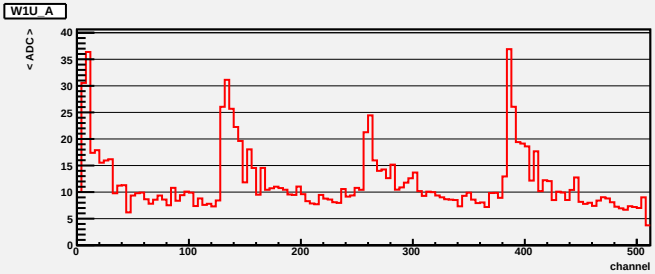
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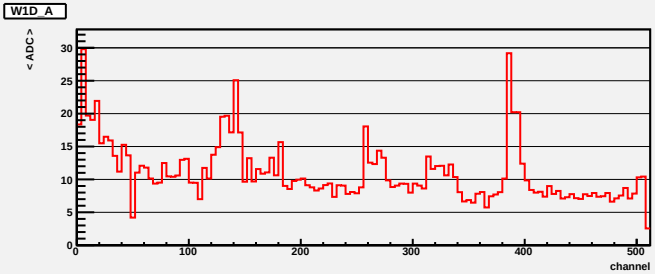
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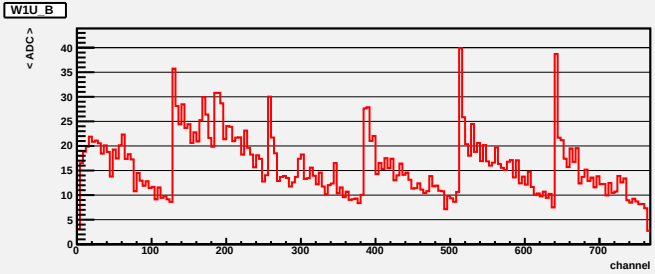
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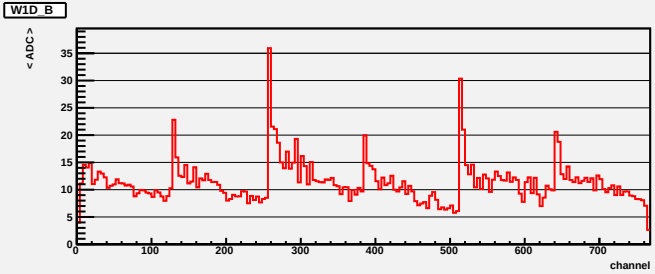
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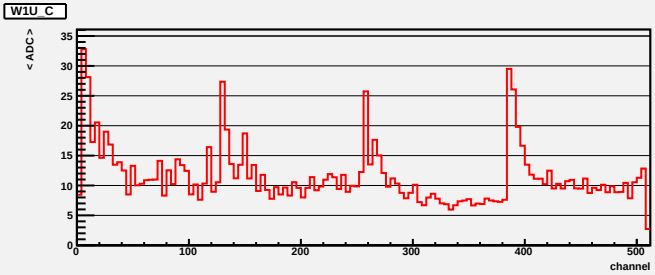
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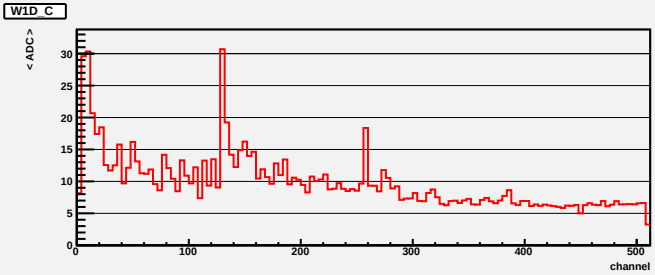
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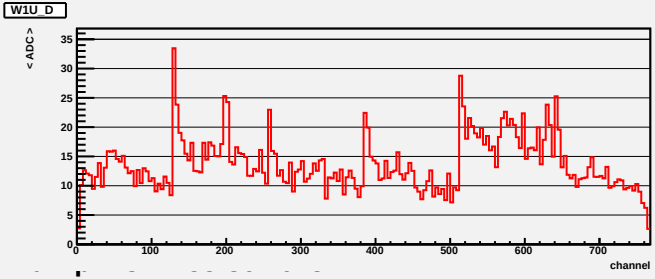
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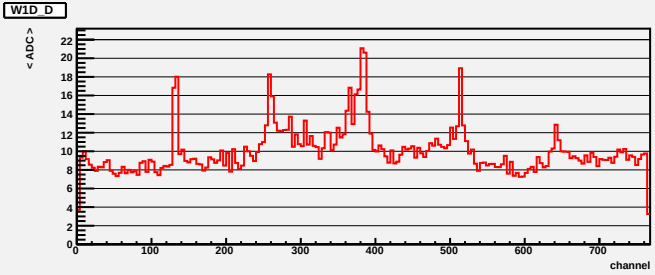
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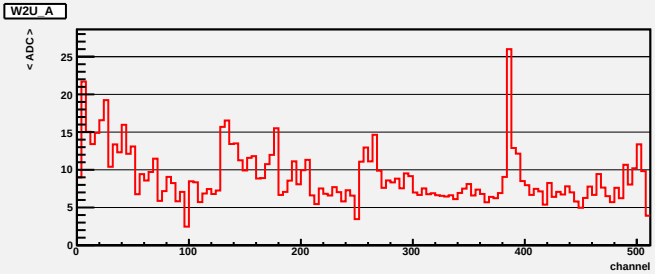
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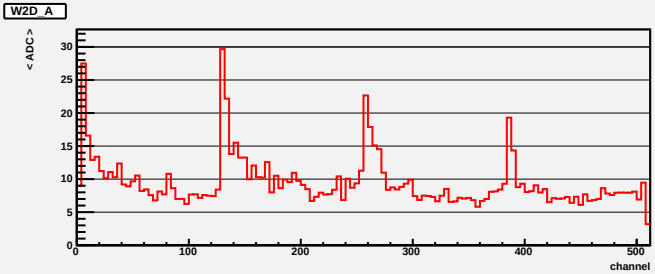
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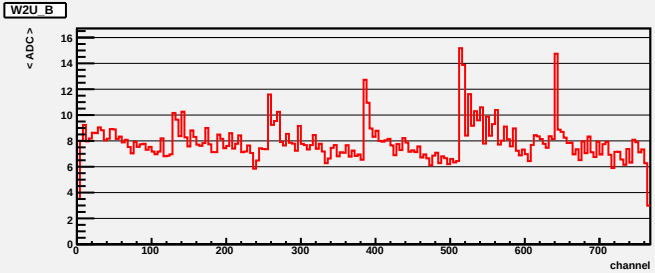
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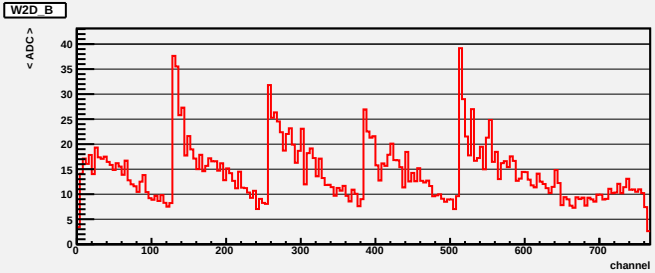
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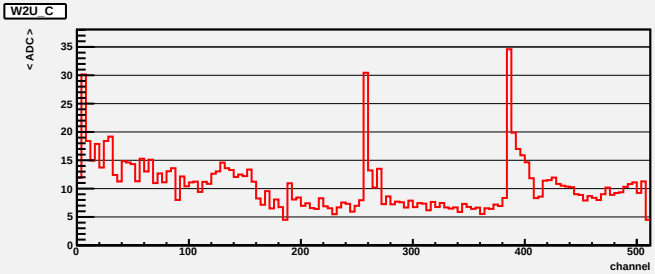
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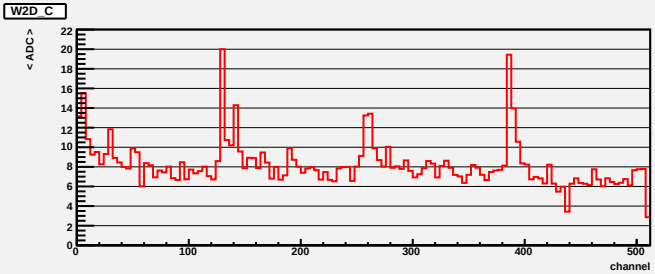
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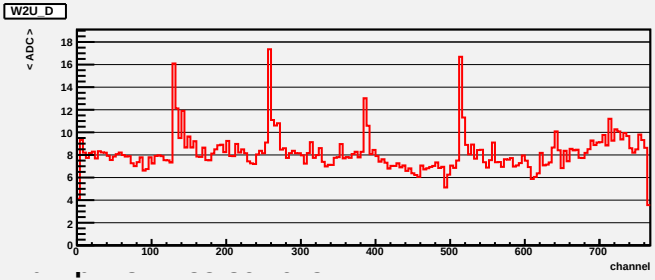
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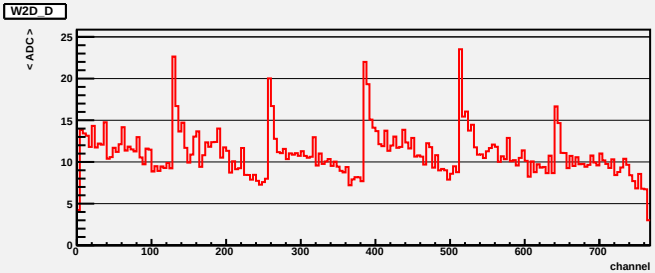
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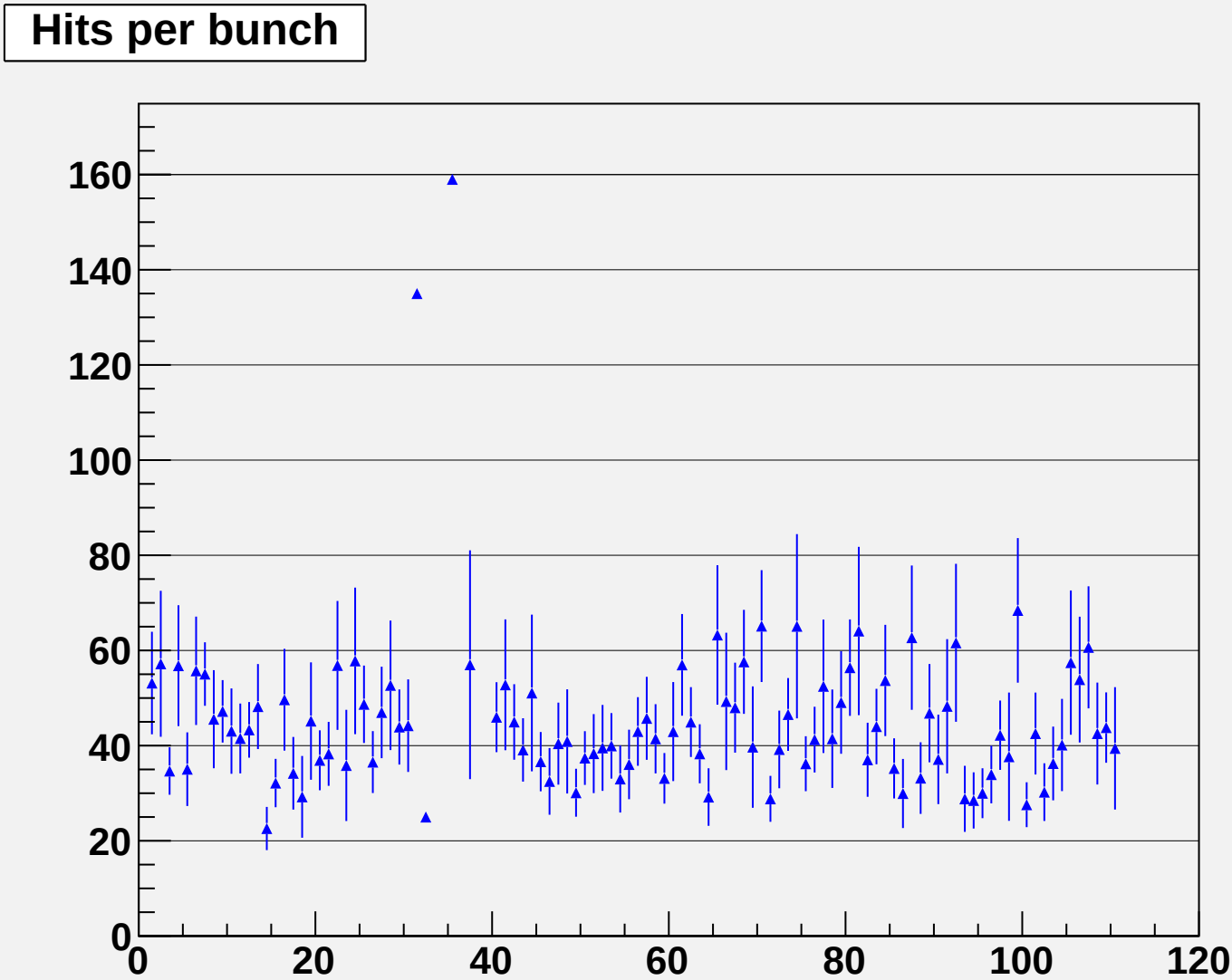
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Thu Apr 23 22:55:36 2015