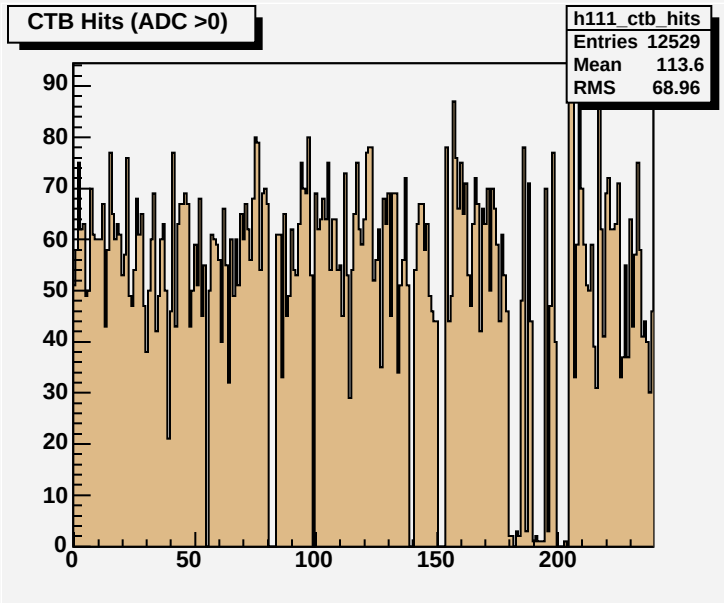
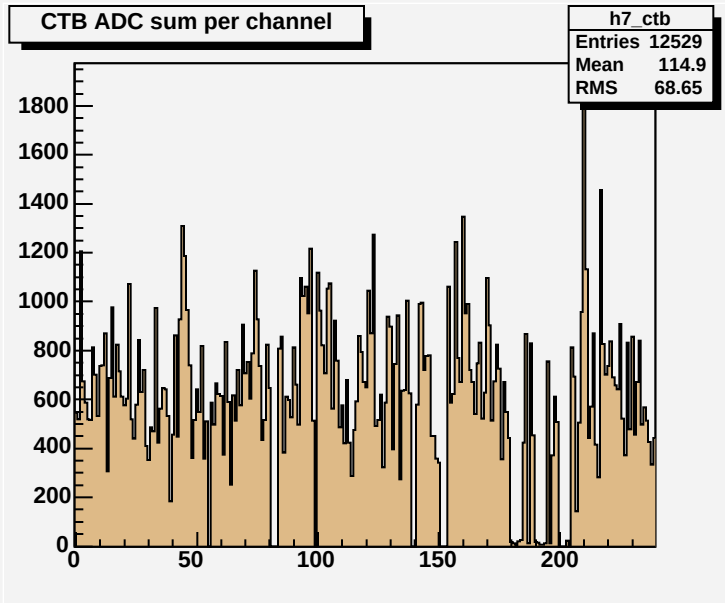
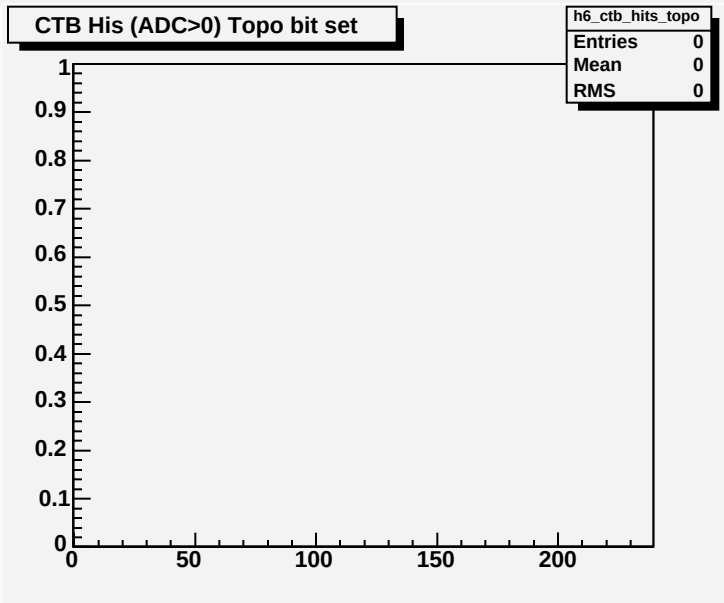
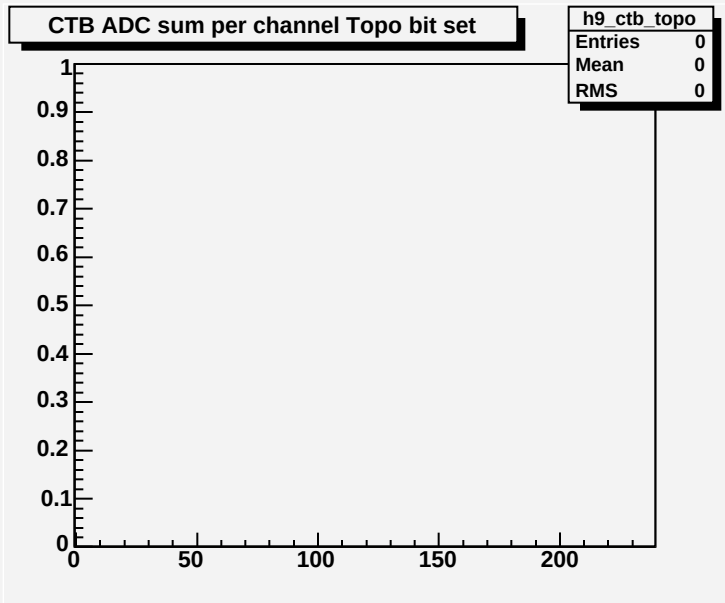
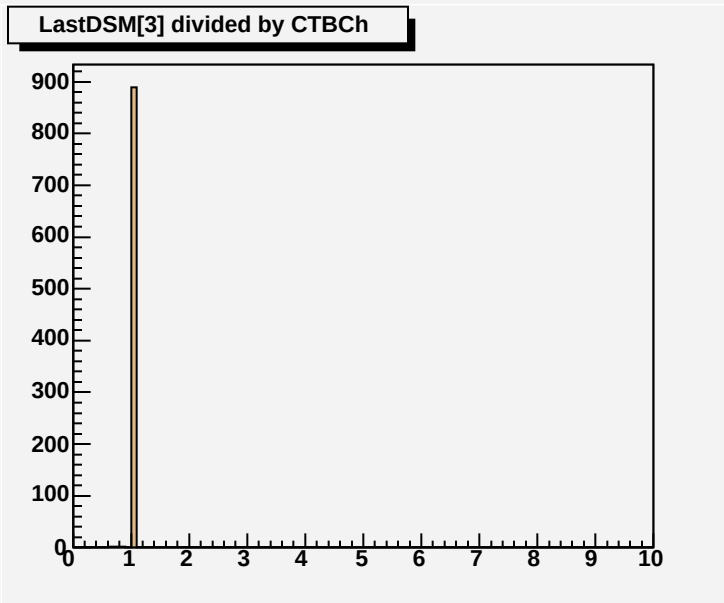
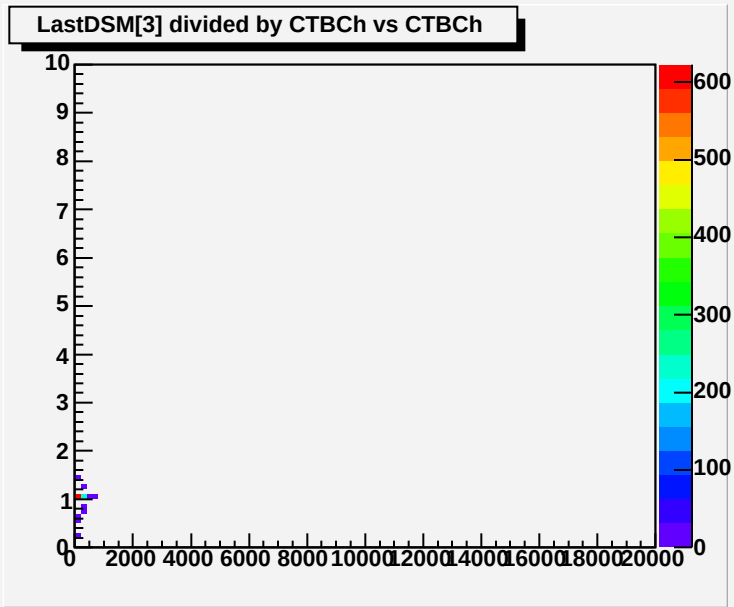

CTB Hits (ADC >0)
h111_ctb_hits
Entries 12529
Mean 113.6
RMS 68.96

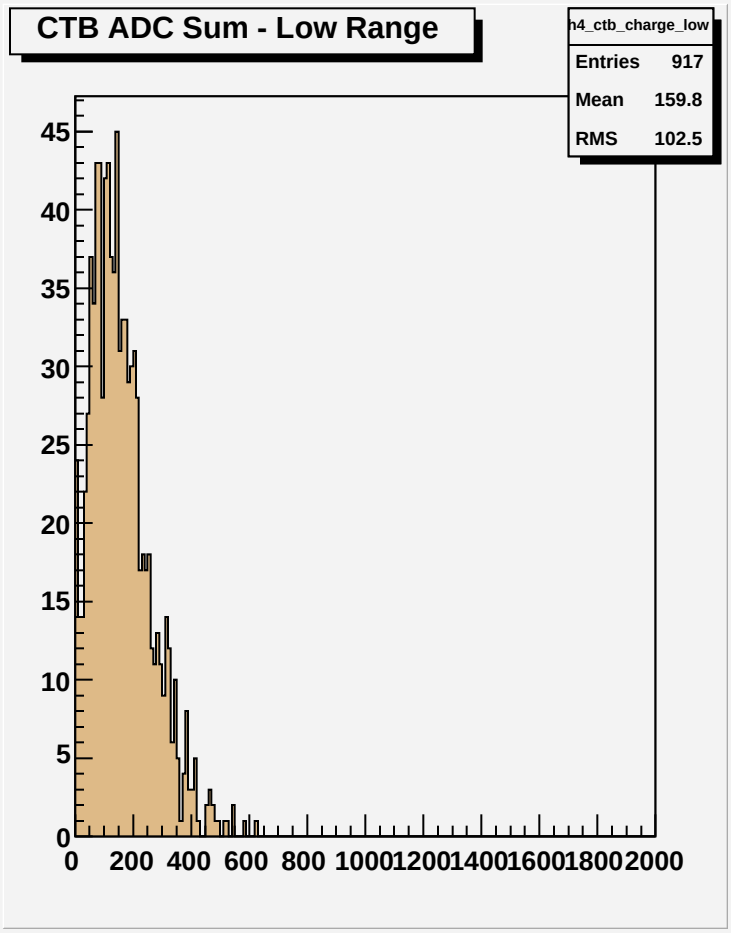

CTB ADC sum per channel
h7_ctb
Entries 12529
Mean 114.9
RMS 68.65

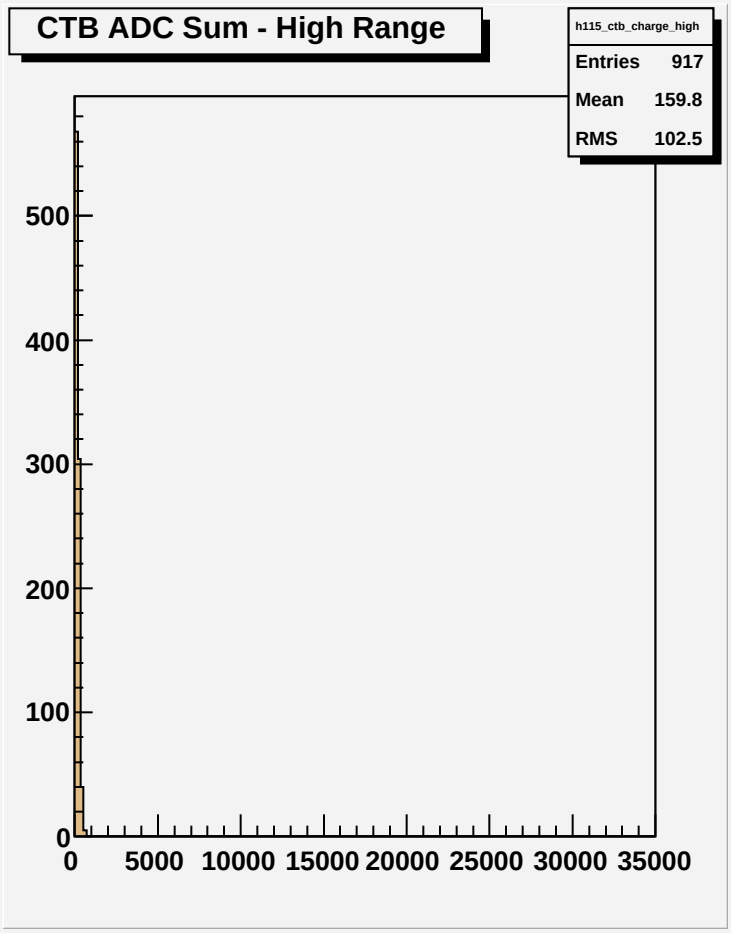

CTB His (ADC>0) Topo bit set
h6_ctb_hits_topo
Entries 0
Mean 0
RMS 0

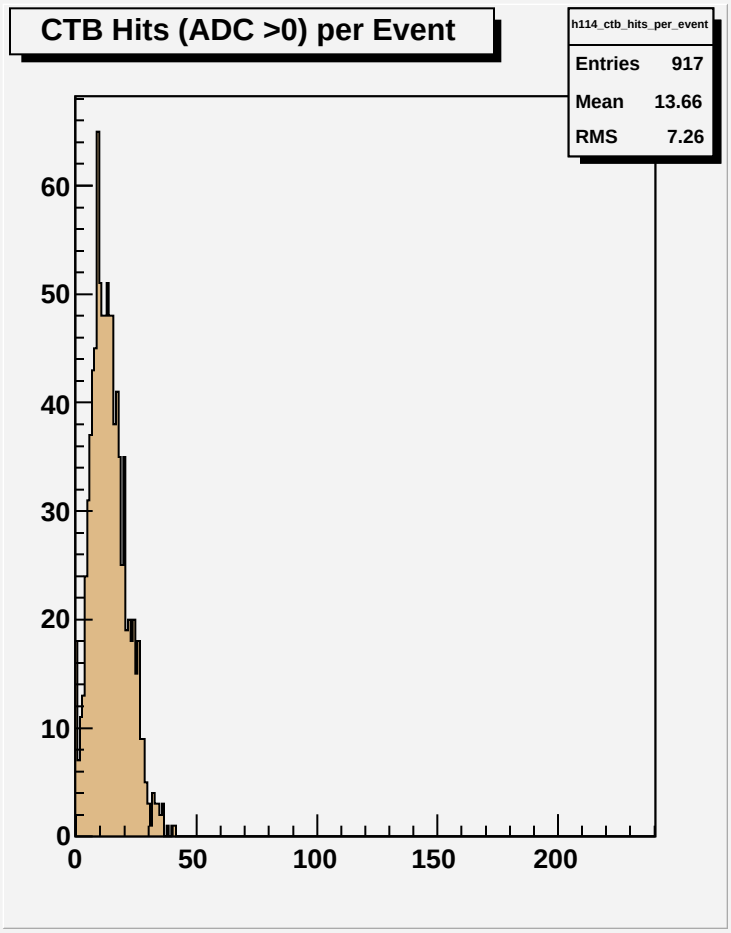

CTB ADC sum per channel Topo bit set
h9_ctb_topo
Entries 0
Mean 0
RMS 0

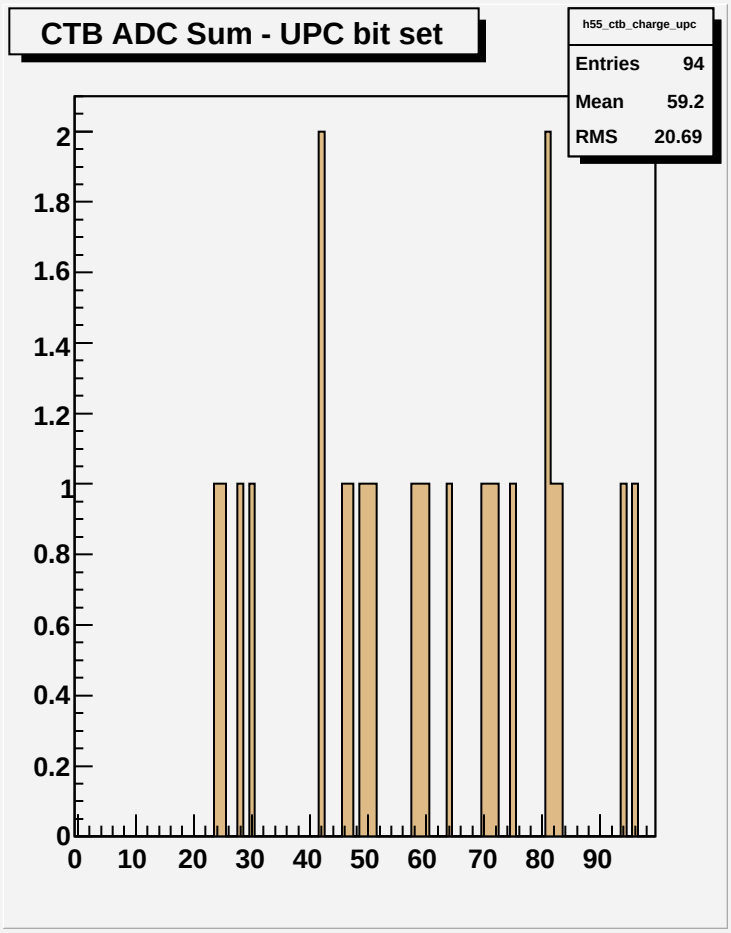

LastDSM[3] divided by CTBCh

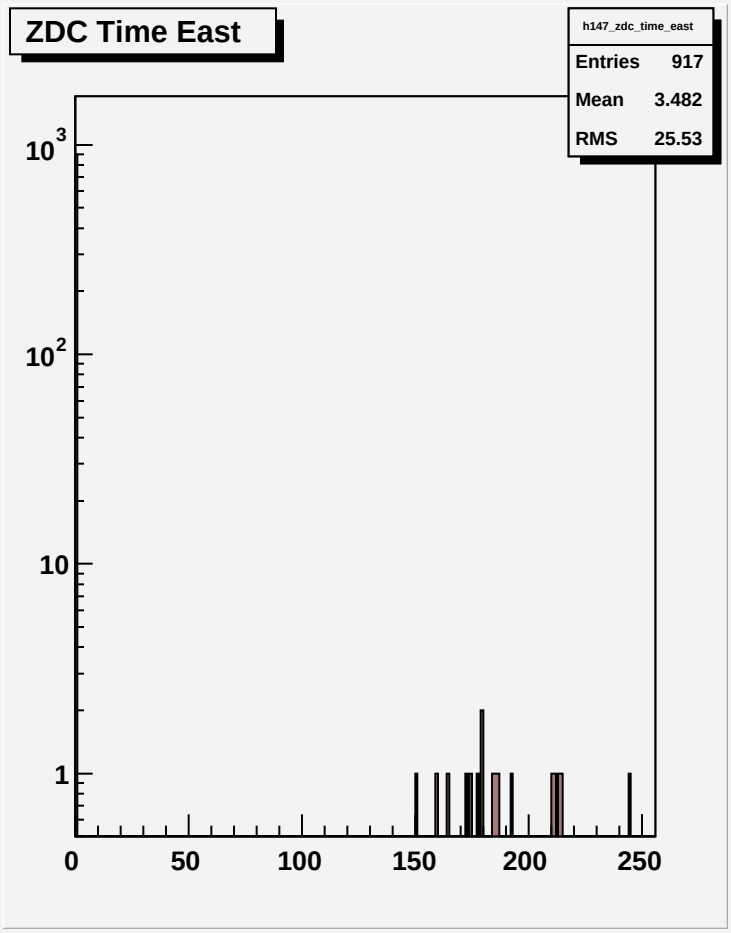

LastDSM[3] divided by CTBCh vs CTBCh

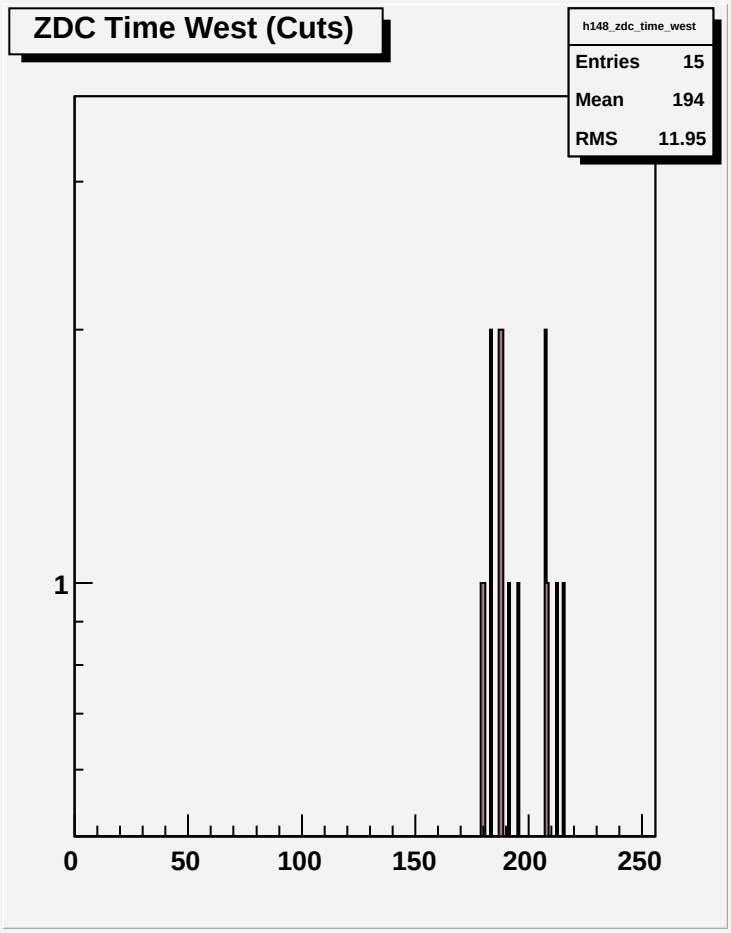

CTB ADC Sum - Low Range
h4_ctb_charge_low
Entries 917
Mean 159.8
RMS 102.5
0 5 10 15 20 25 30 35 40 45
0 200 400 600 800 1000 1200 1400 1600 1800 2000

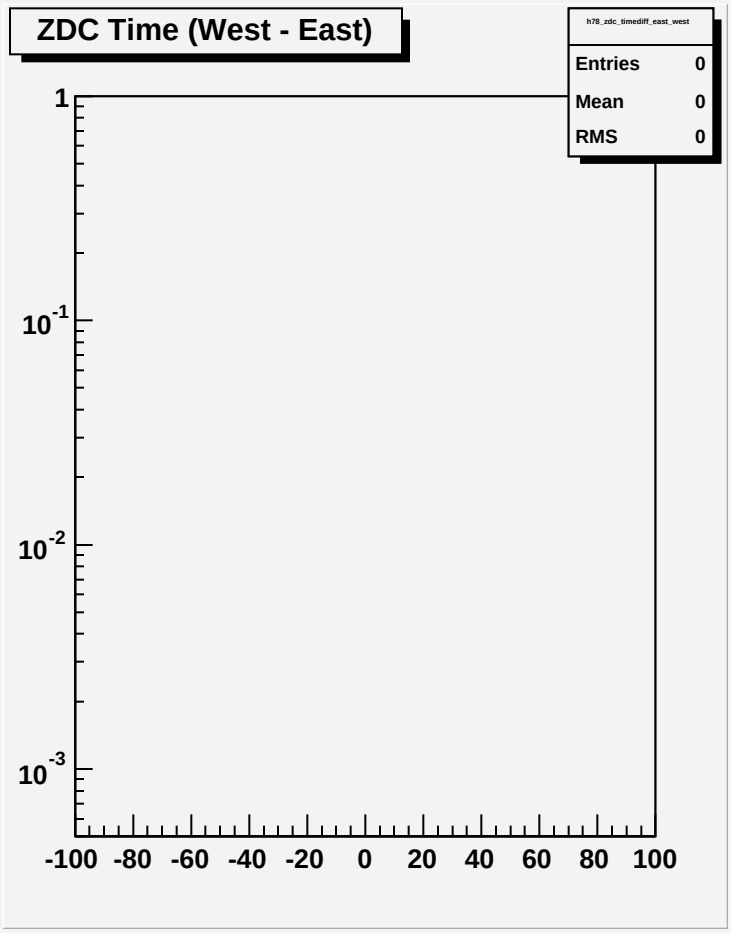

CTB ADC Sum - High Range
h115_ctb_charge_high
Entries 917
Mean 159.8
RMS 102.5
0 100 200 300 400 500
0 5000 10000 15000 20000 25000 30000 35000

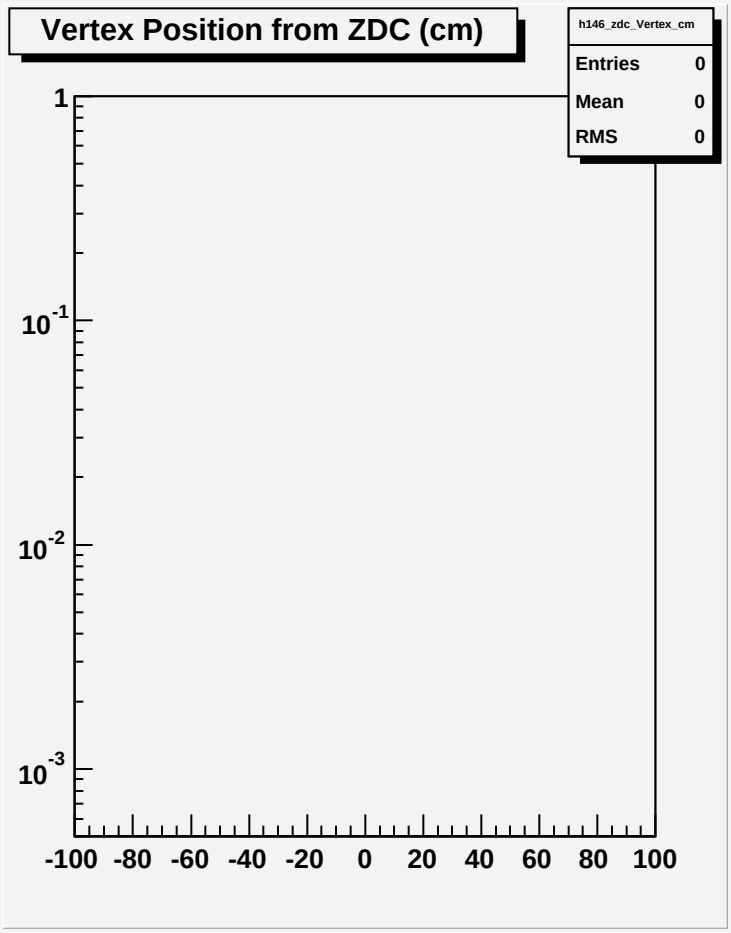

CTB Hits (ADC >0) per Event
h114_ctb_hits_per_event
Entries 917
Mean 13.66
RMS 7.26
0 10 20 30 40 50 60
0 50 100 150 200

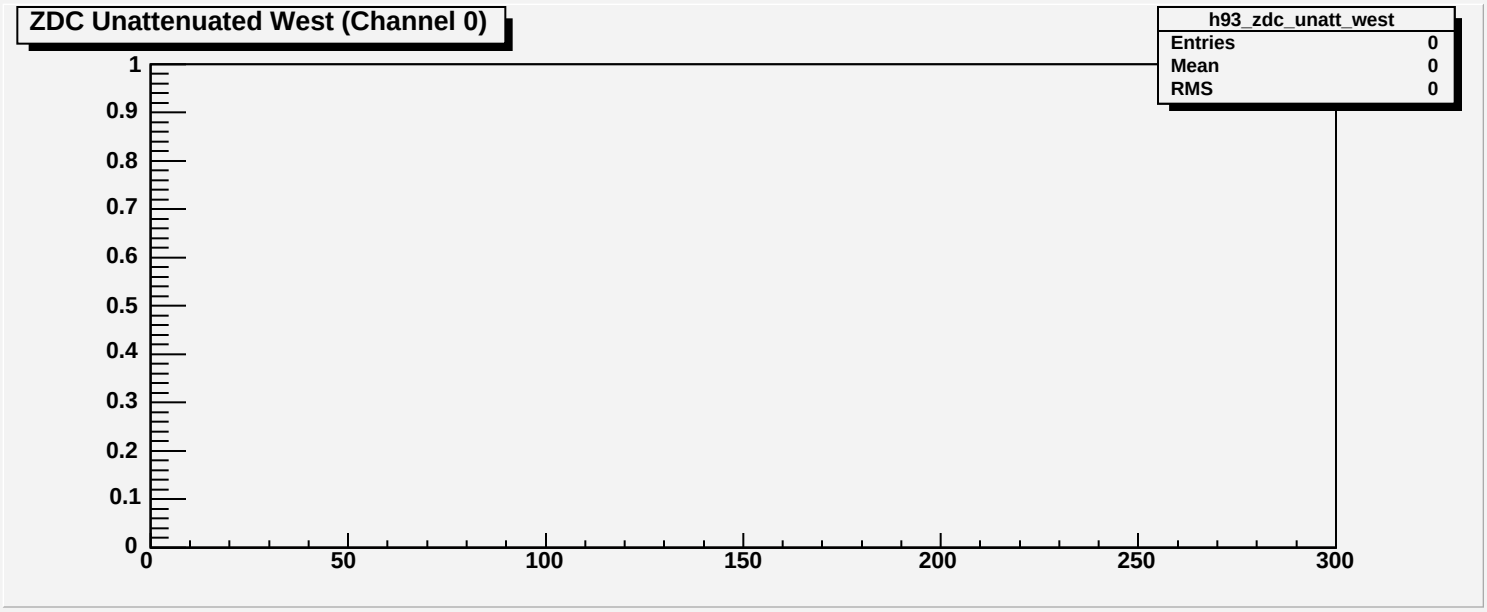

CTB ADC Sum - UPC bit set
h55_ctb_charge_upc
Entries 94
Mean 59.2
RMS 20.69
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 10 20 30 40 50 60 70 80 90

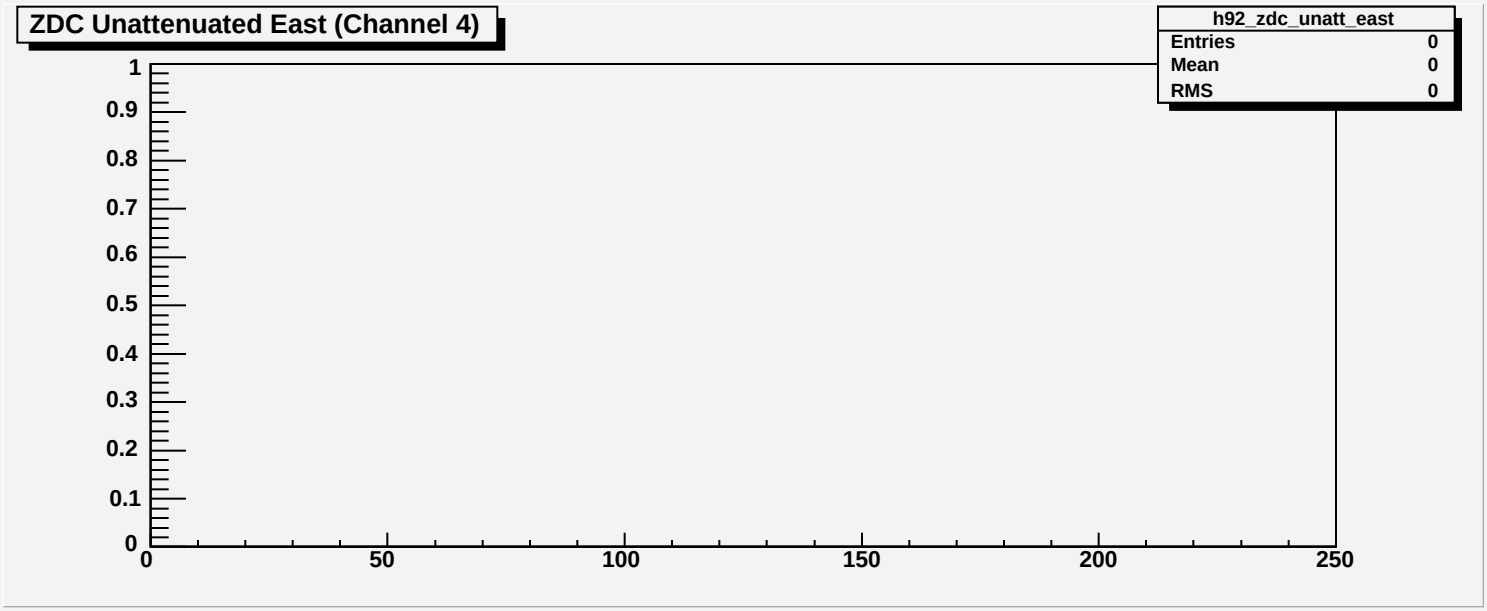

ZDC Time East
h147_zdc_time_east
Entries 917
Mean 3.482
RMS 25.53
10^3
10^2
10
1
0
50
100
150
200
250

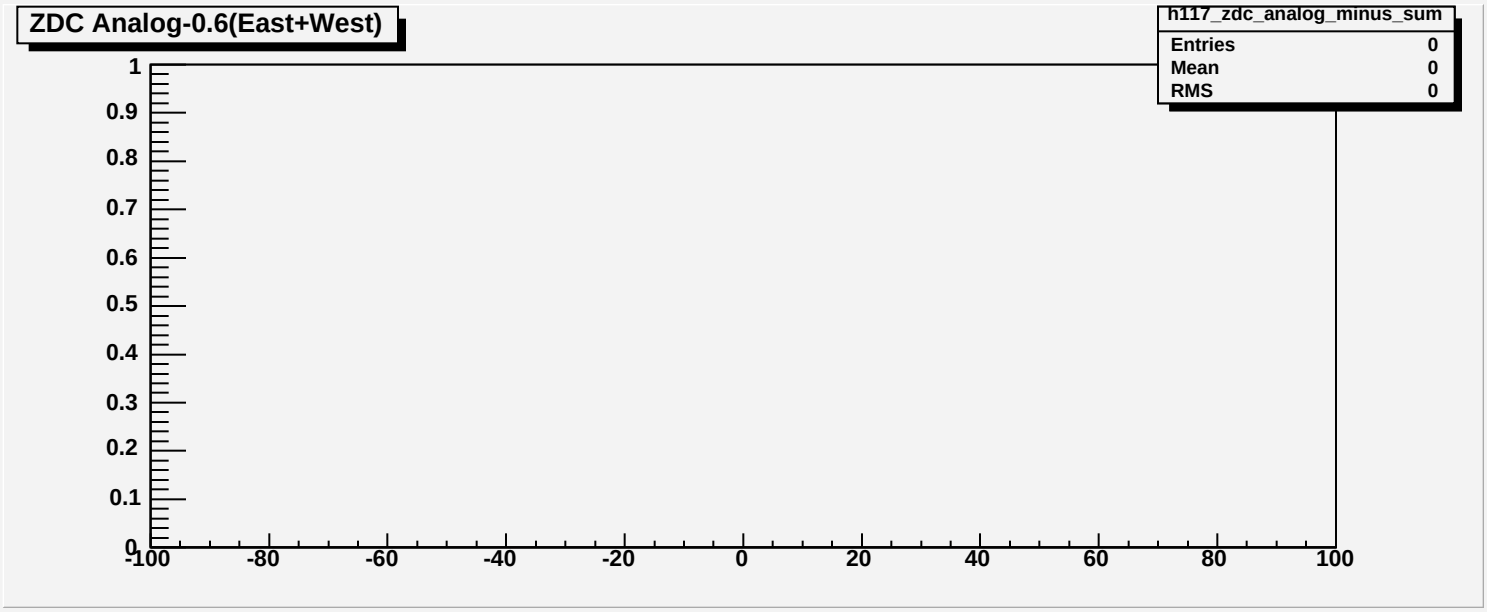

ZDC Time West (Cuts)
h148_zdc_time_west
Entries 15
Mean 194
RMS 11.95
1
0
50
100
150
200
250

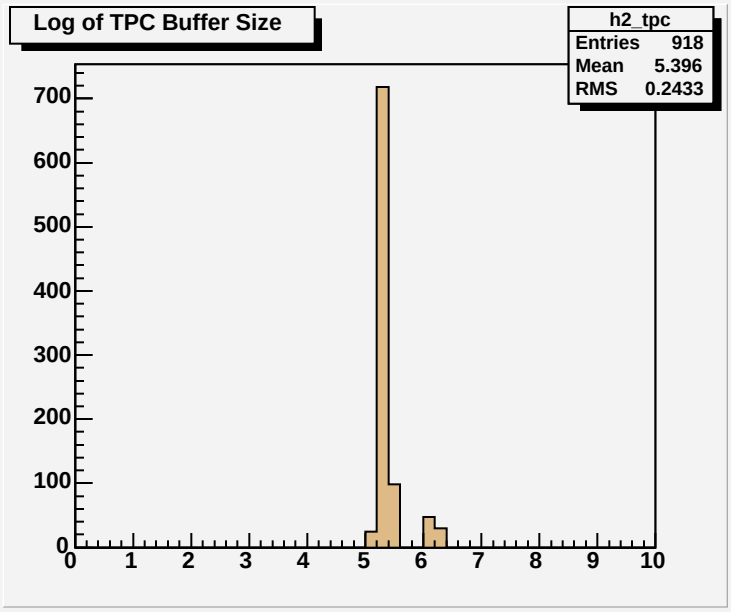

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 0
Mean 0
RMS 0
1
10^-1
10^-2
10^-3
-100
-80
-60
-40
-20
0
20
40
60
80
100

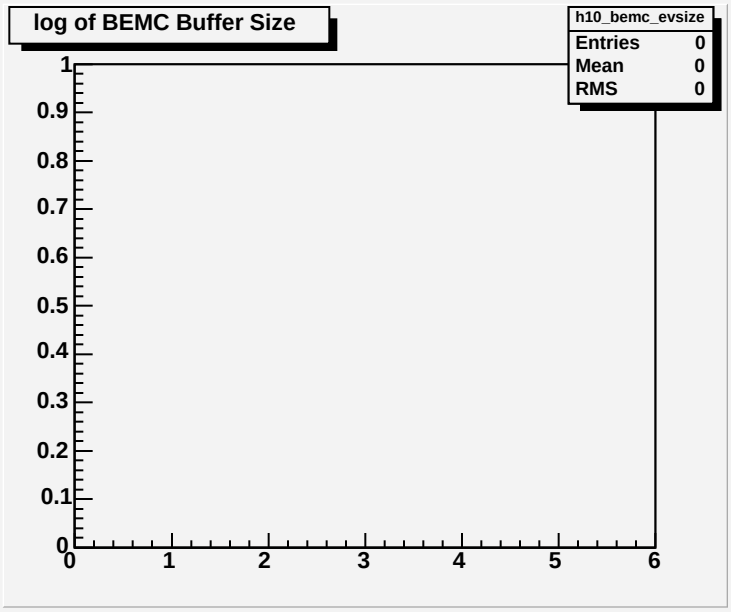

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 0
Mean 0
RMS 0
1
10^-1
10^-2
10^-3
-100
-80
-60
-40
-20
0
20
40
60
80
100

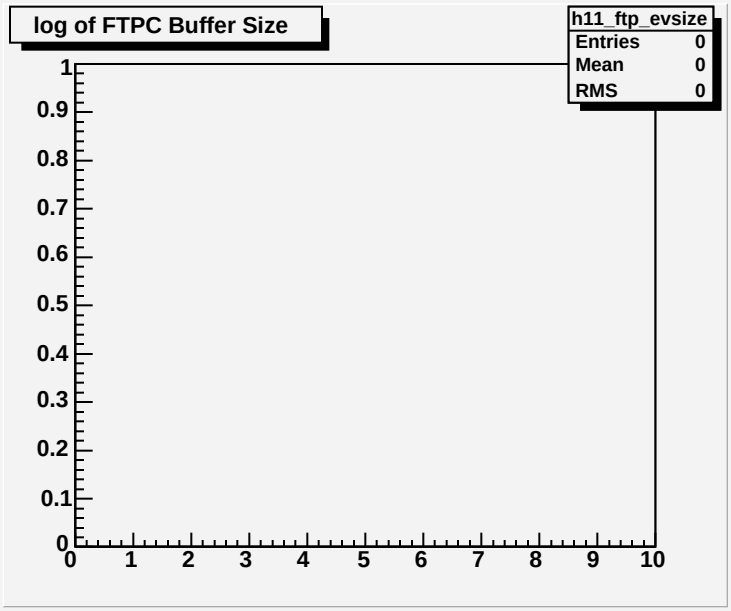

ZDC Unattenuated West (Channel 0)
h93_zdc_unatt_west
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
50
100
150
200
250
300

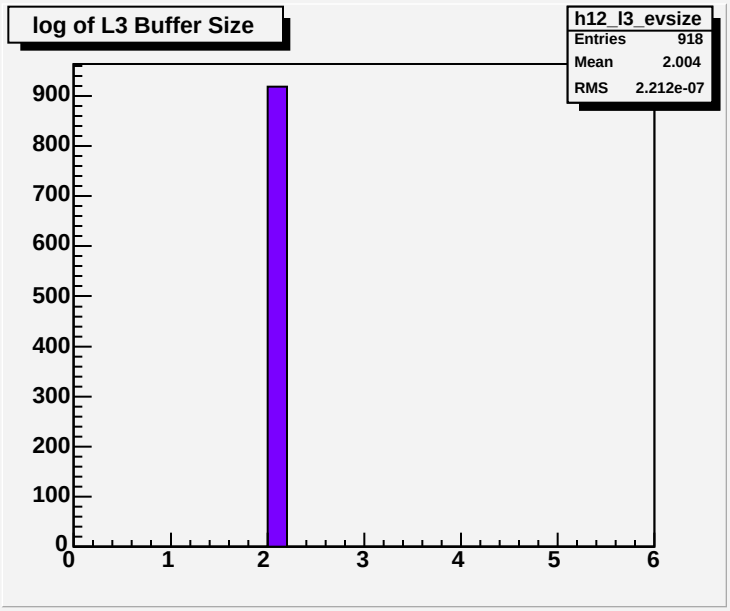

ZDC Unattenuated East (Channel 4)
h92_zdc_unatt_east
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0
50
100
150
200
250

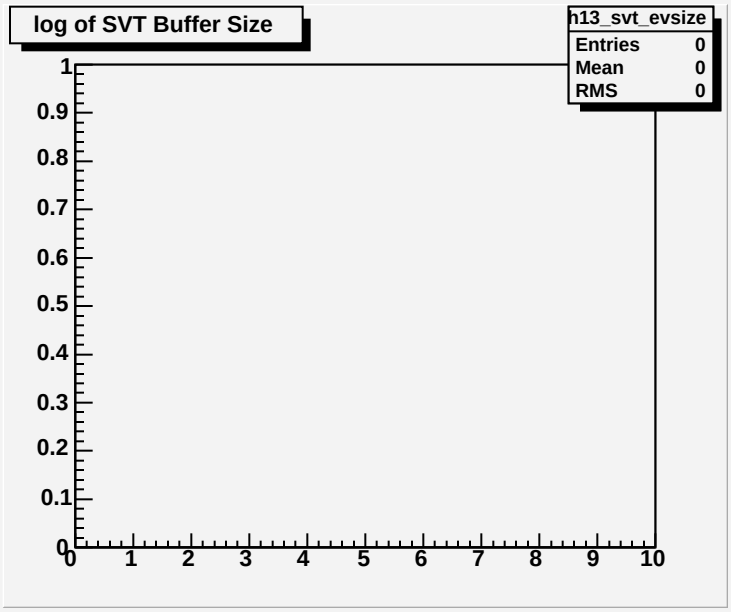

ZDC Analog-0.6(East+West)
h117_zdc_analog_minus_sum
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-100
-80
-60
-40
-20
0
20
40
60
80
100

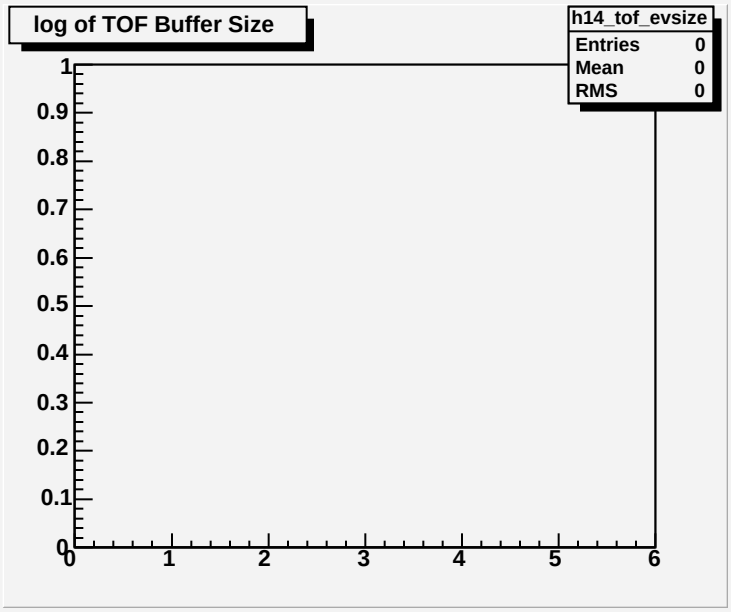

Log of TPC Buffer Size
h2_tpc
Entries 918
Mean 5.396
RMS 0.2433

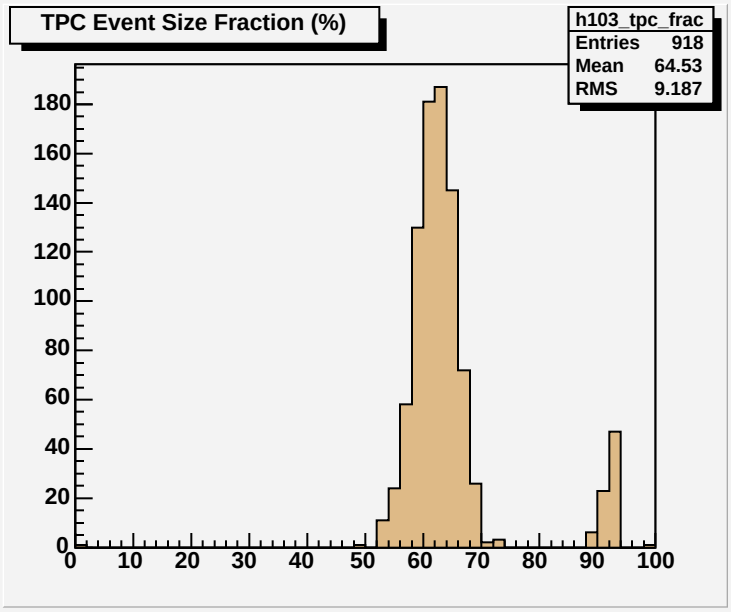

log of BEMC Buffer Size
h10_bemc_evsize
Entries 0
Mean 0
RMS 0

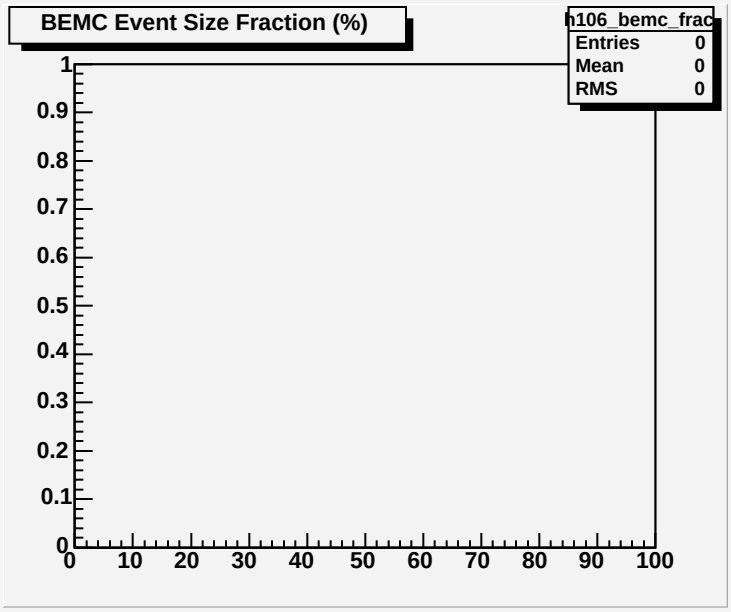

log of FTPC Buffer Size
h11_ftp_evsize
Entries 0
Mean 0
RMS 0

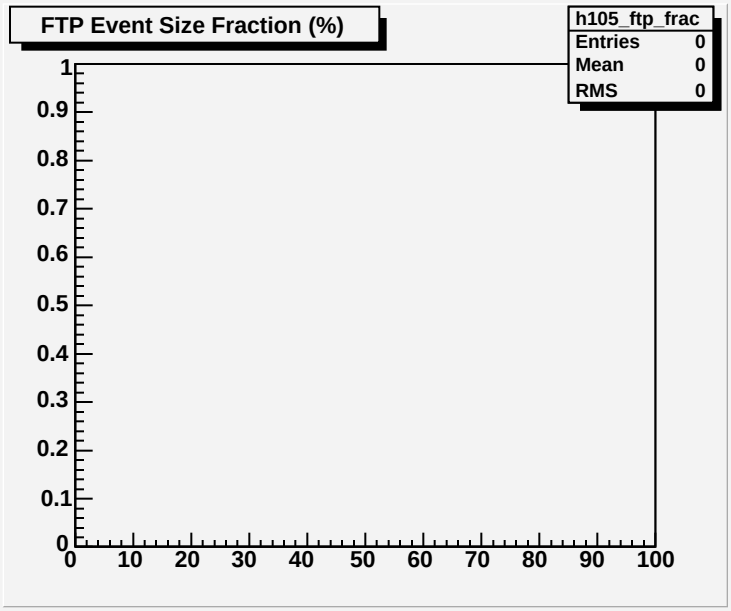

log of L3 Buffer Size
h12_l3_evsize
Entries 918
Mean 2.004
RMS 2.212e-07

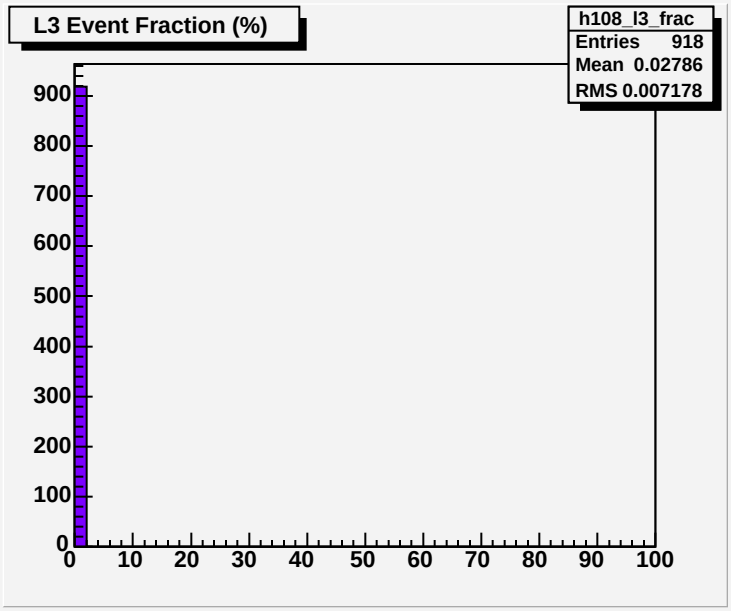

log of SVT Buffer Size
h13_svt_evsize
Entries 0
Mean 0
RMS 0

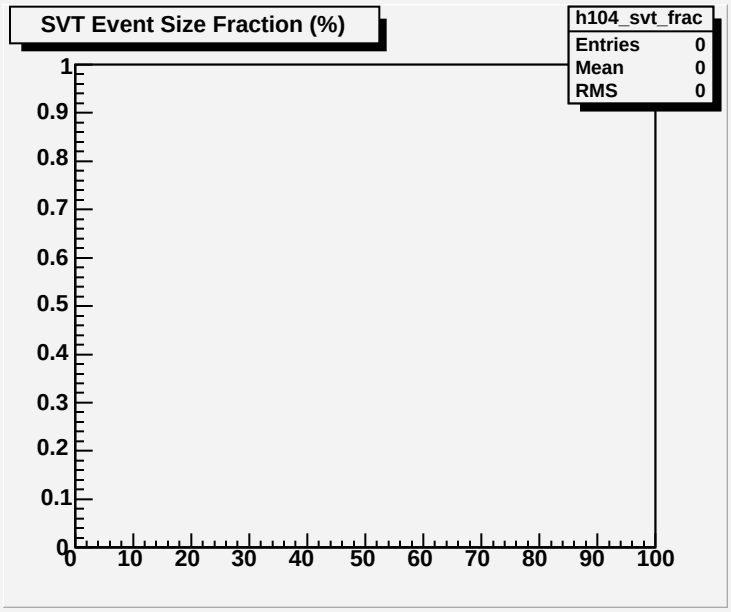

log of TOF Buffer Size
h14_tof_evsize
Entries 0
Mean 0
RMS 0

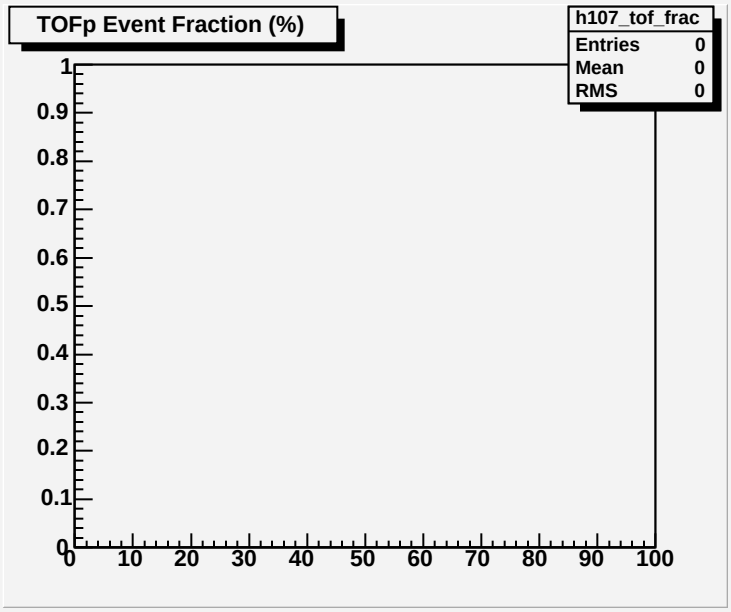

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 918
Mean 64.53
RMS 9.187

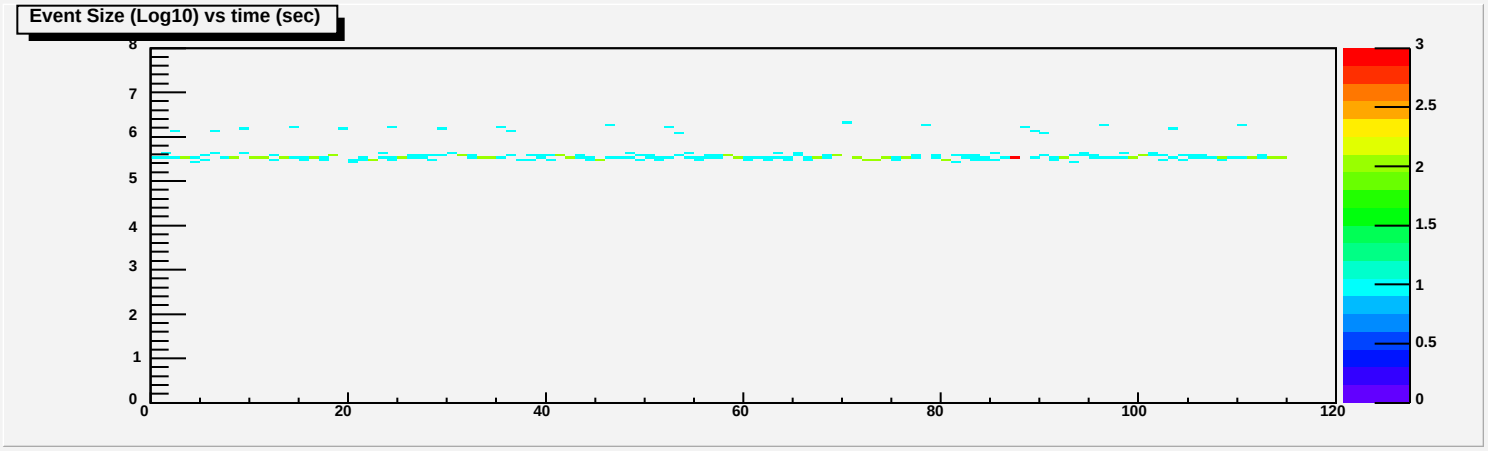

BEMC Event Size Fraction (%)
h106_bemc_frac
Entries 0
Mean 0
RMS 0

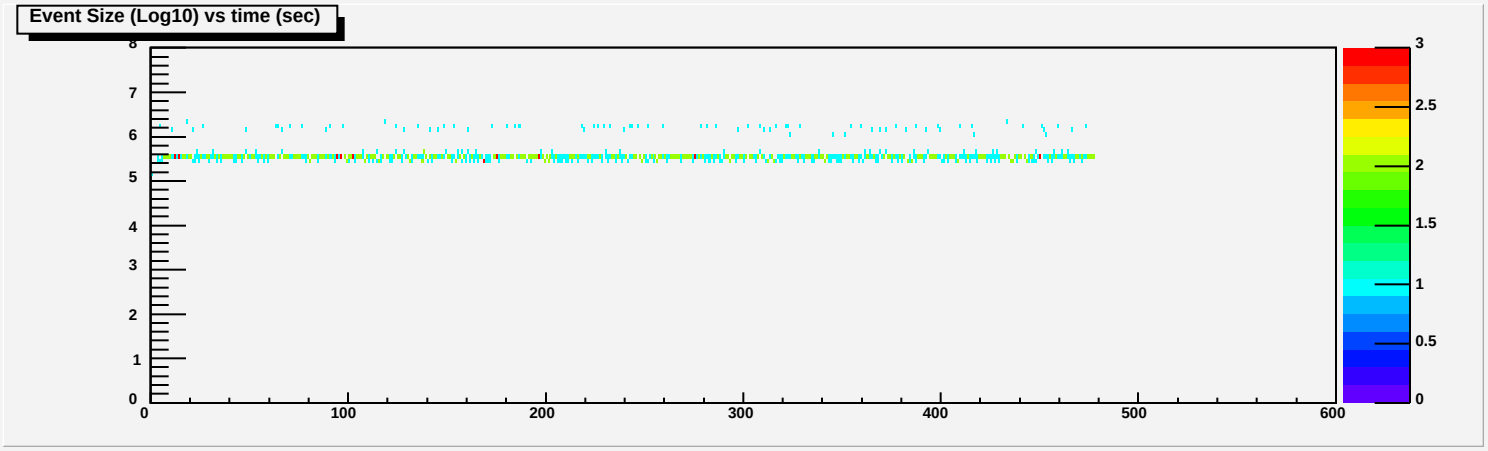

FTP Event Size Fraction (%)
h105_ftp_frac
Entries 0
Mean 0
RMS 0

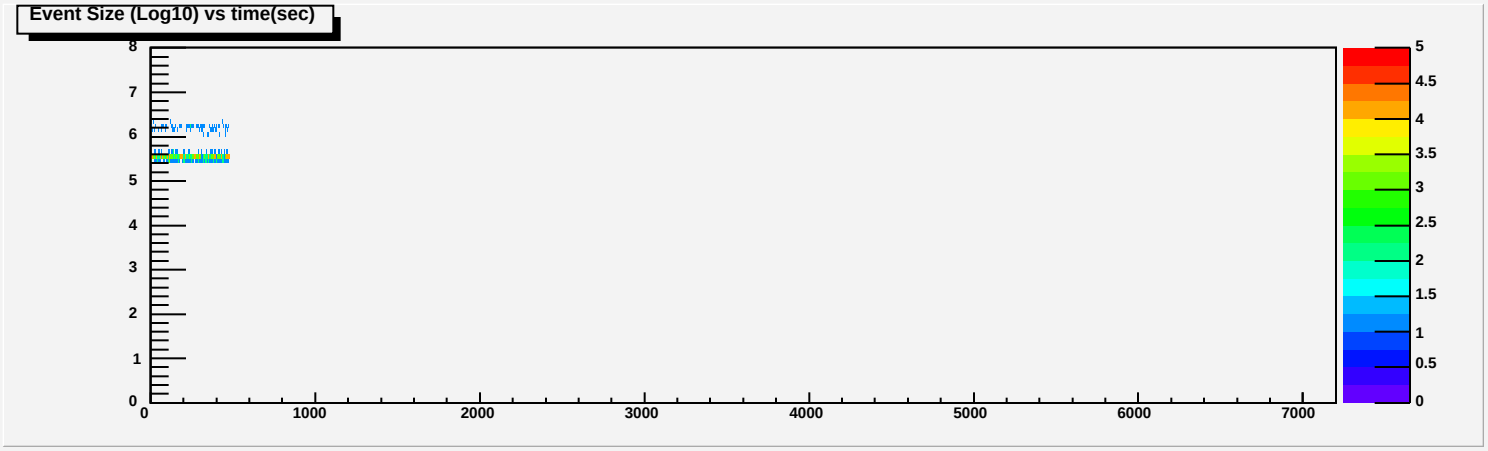

L3 Event Fraction (%)
h108_l3_frac
Entries 918
Mean 0.02786
RMS 0.007178

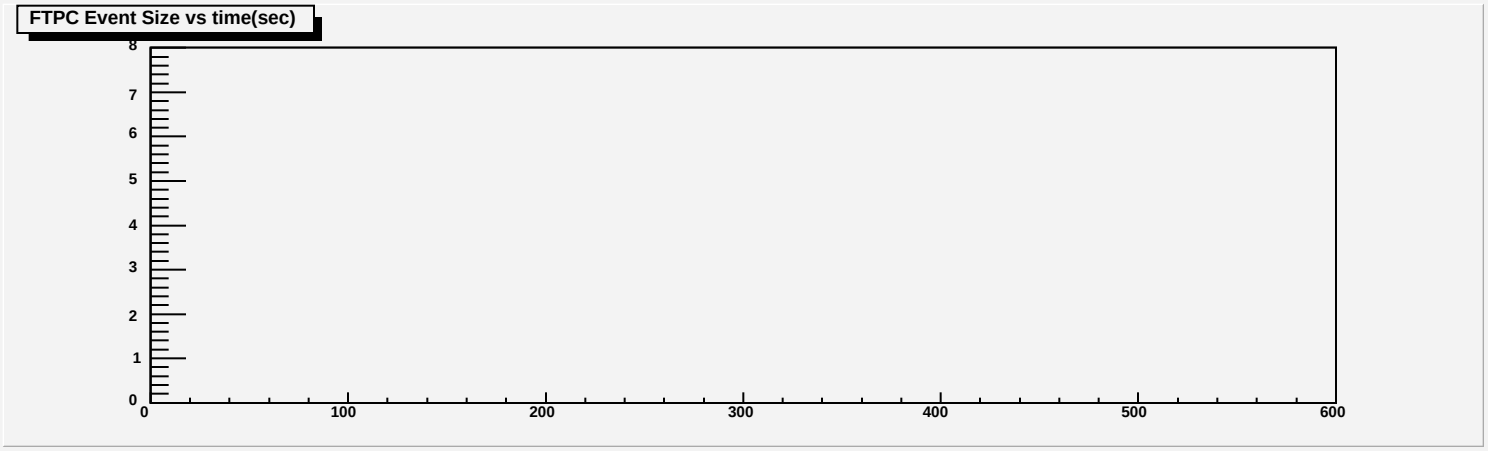

SVT Event Size Fraction (%)
h104_svt_frac
Entries 0
Mean 0
RMS 0

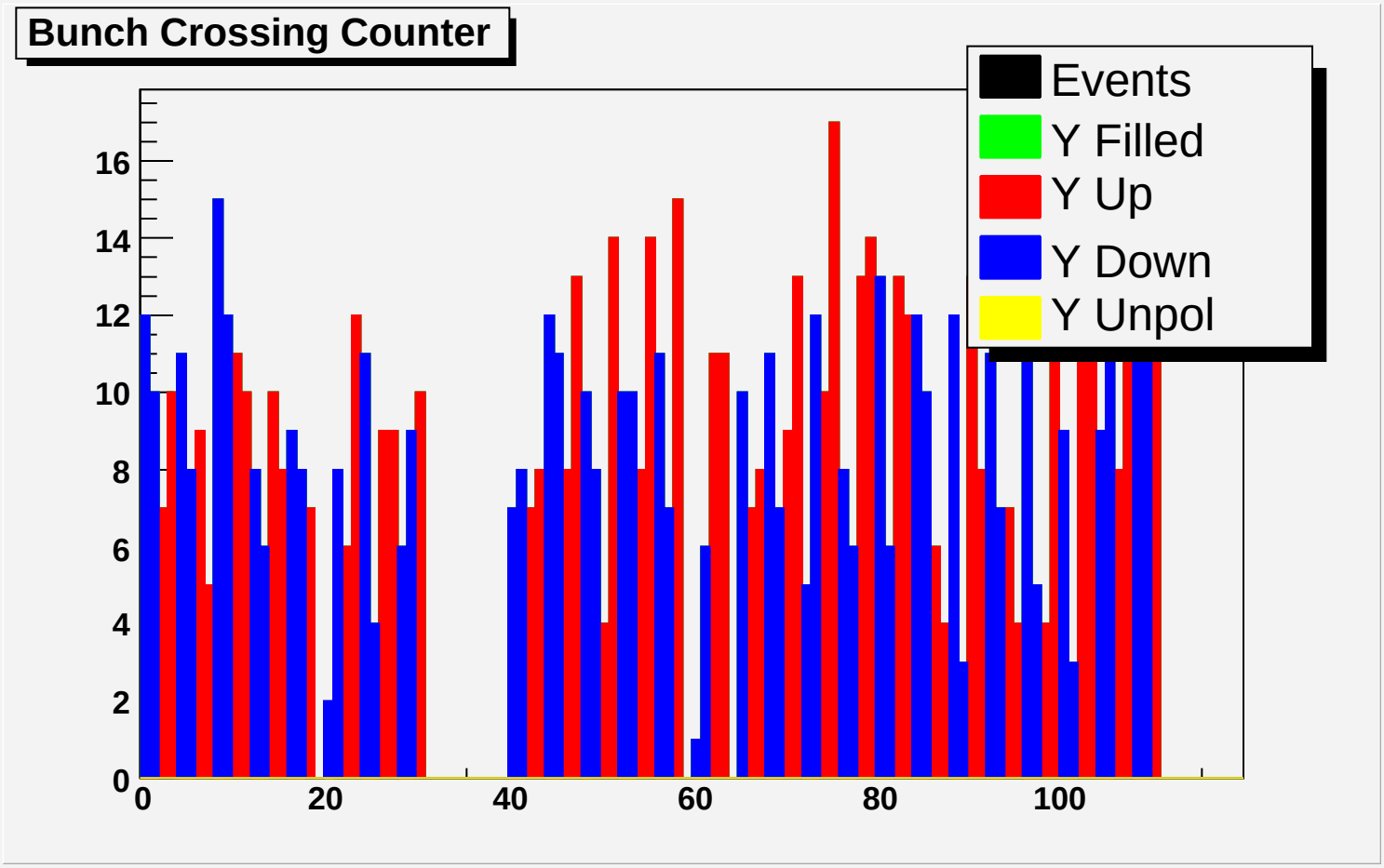

TOFp Event Fraction (%)
h107_tof_frac
Entries 0
Mean 0
RMS 0

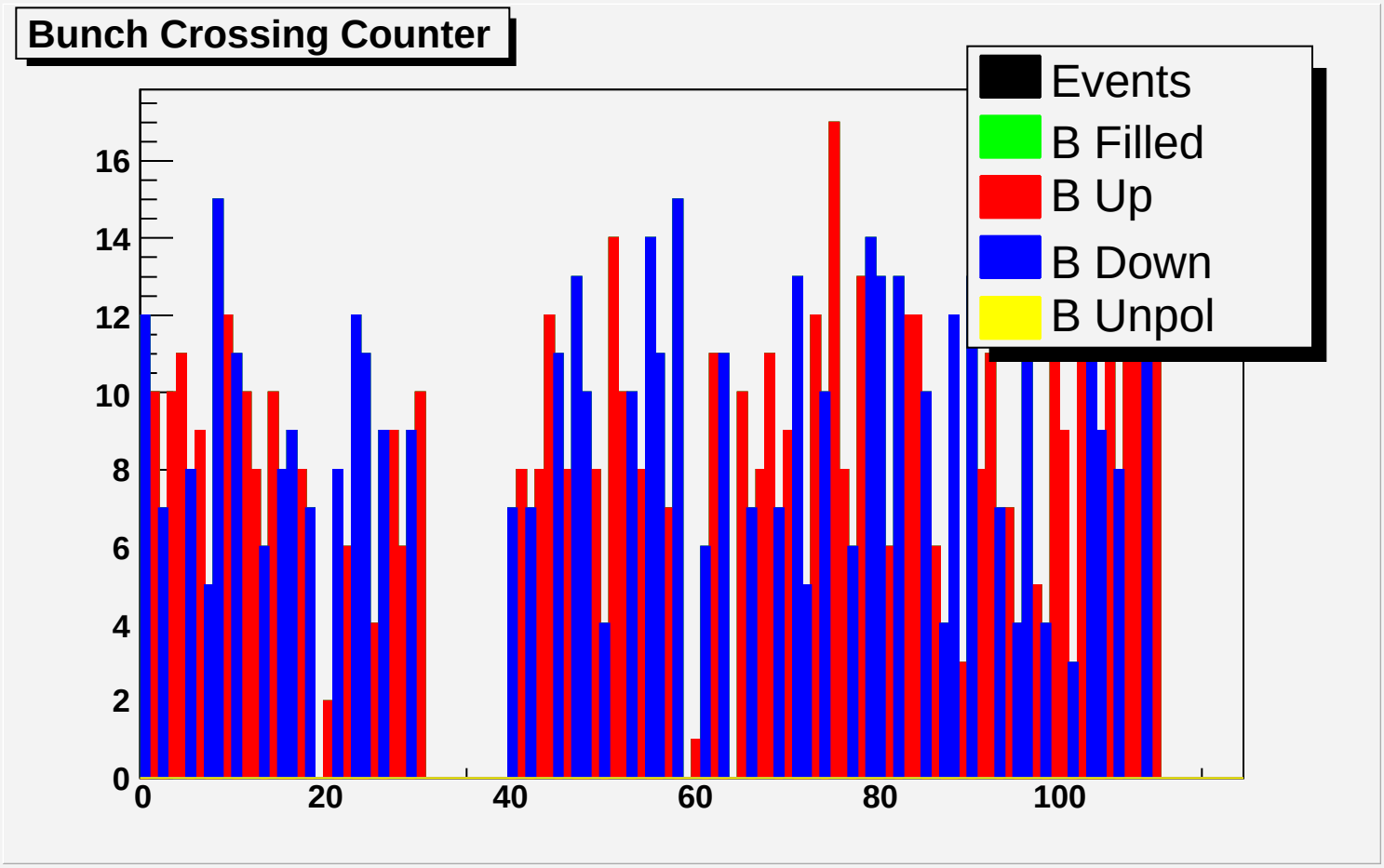

Event Size (Log10) vs time (sec)

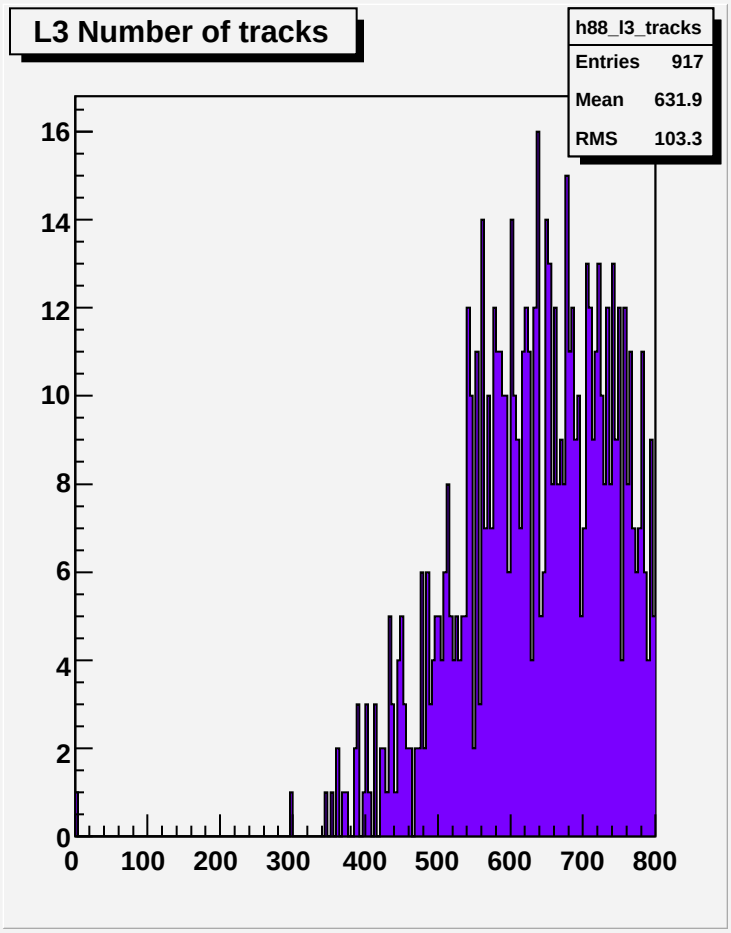

Event Size (Log10) vs time (sec)

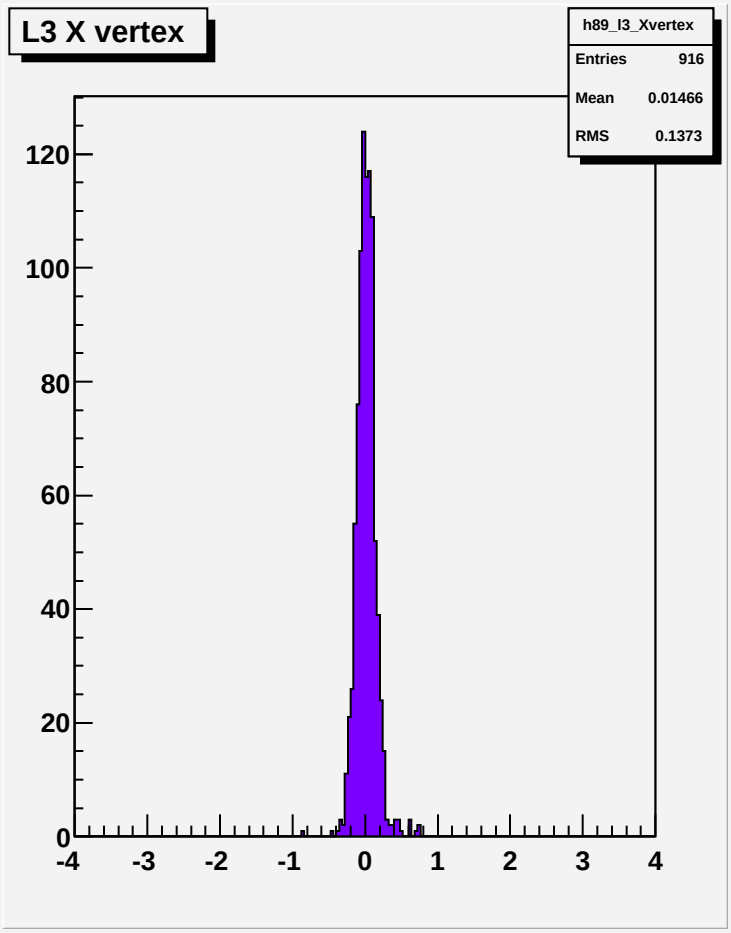

Event Size (Log10) vs time(sec)

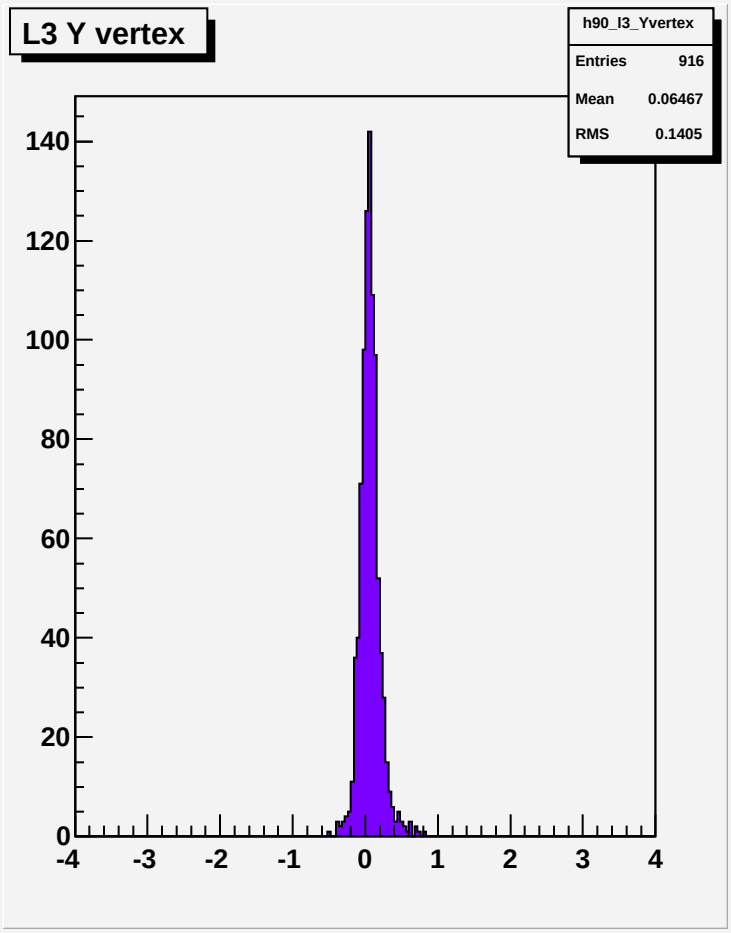

FTPC Event Size vs time(sec)

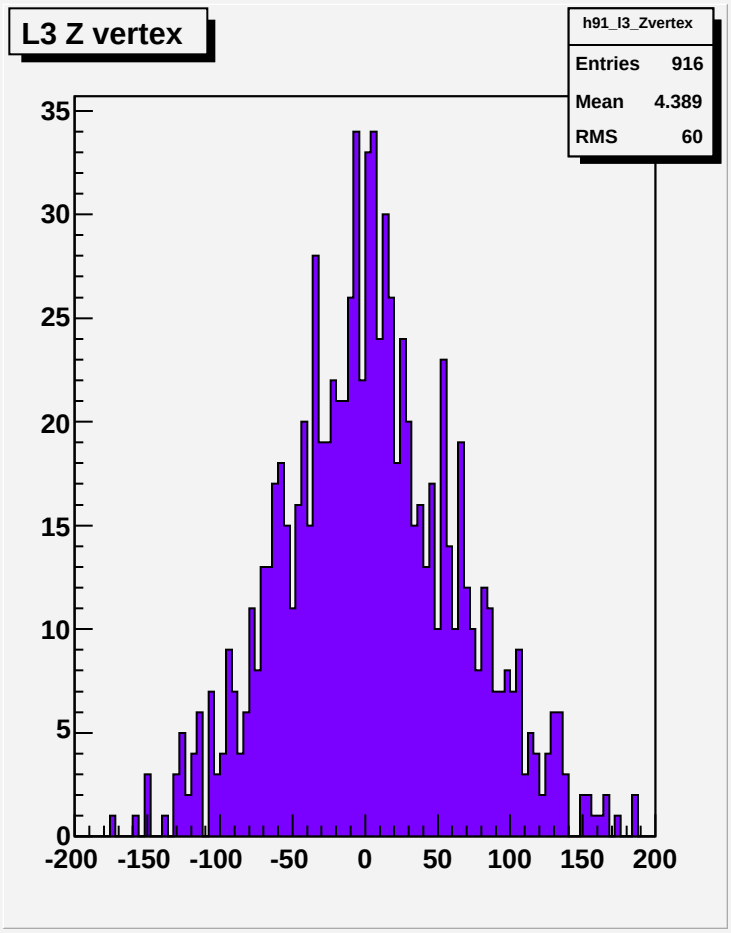

Bunch Crossing Counter
Events
Y Filled
Y Up
Y Down
Y Unpol
0
2
4
6
8
10
12
14
16
0
20
40
60
80
100

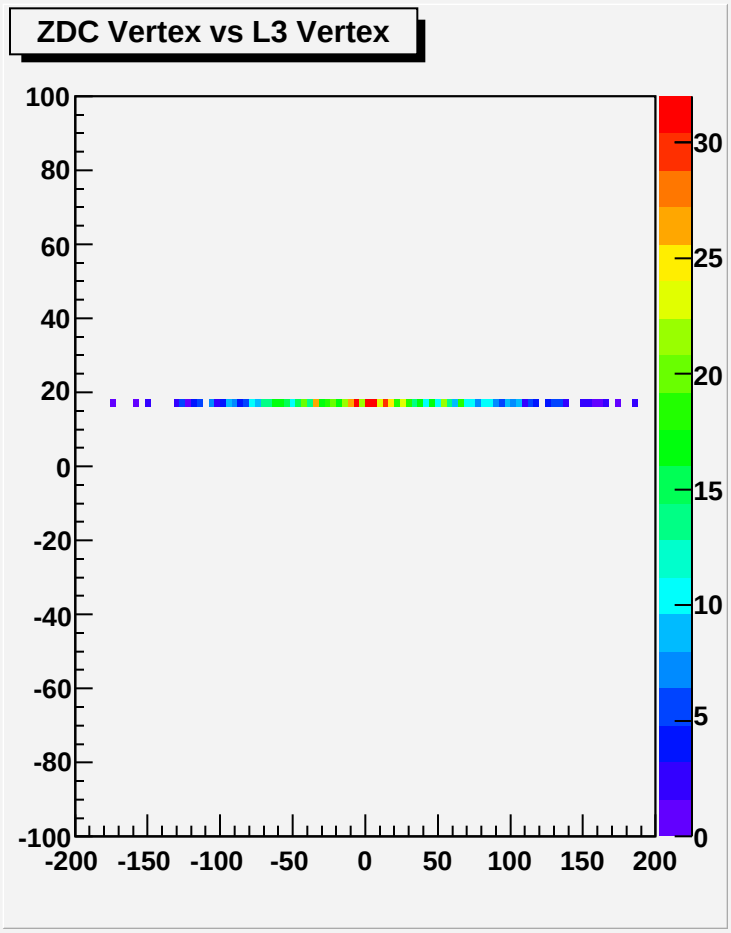

Bunch Crossing Counter
Events
B Filled
B Up
B Down
B Unpol
0
2
4
6
8
10
12
14
16
0
20
40
60
80
100

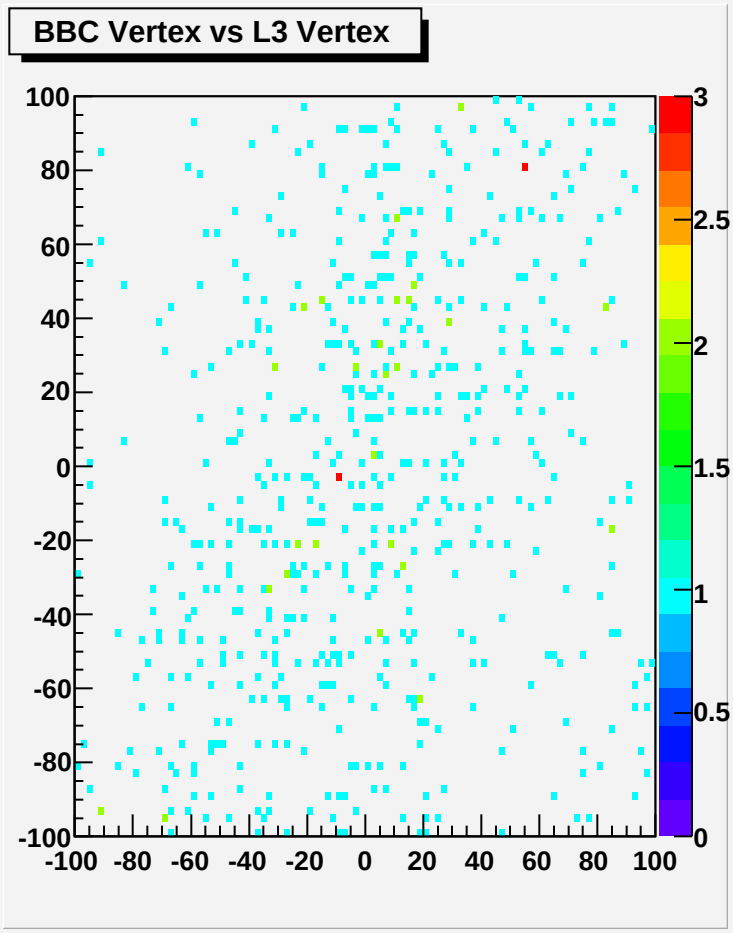

L3 Number of tracks
h88_l3_tracks
Entries 917
Mean 631.9
RMS 103.3
0 2 4 6 8 10 12 14 16
0 100 200 300 400 500 600 700 800

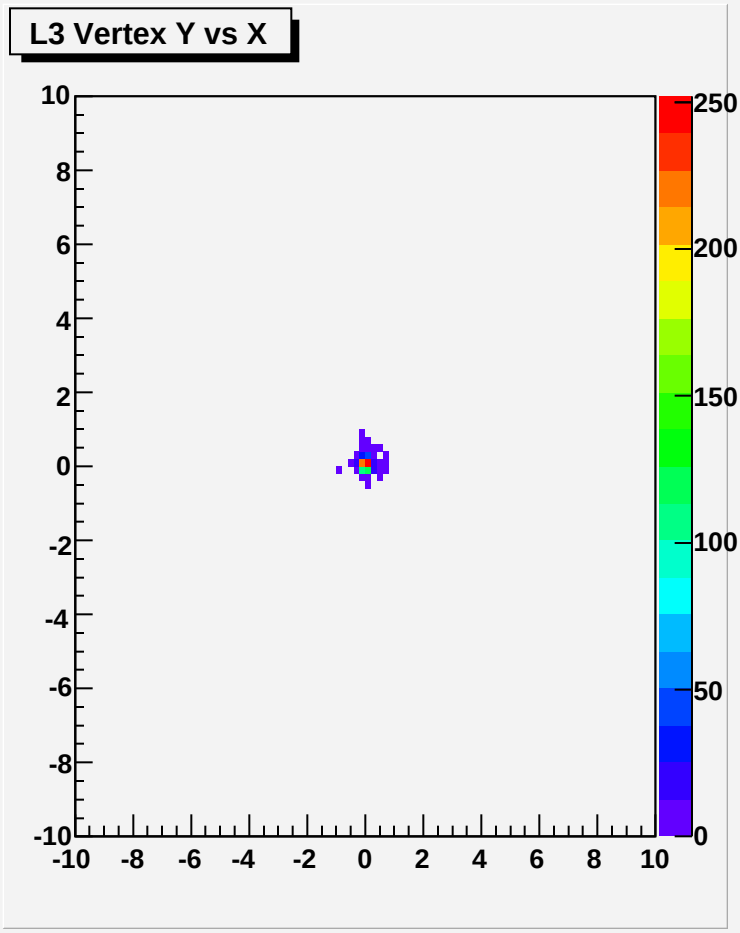

L3 X vertex
h89_l3_Xvertex
Entries 916
Mean 0.01466
RMS 0.1373
0 20 40 60 80 100 120
-4 -3 -2 -1 0 1 2 3 4

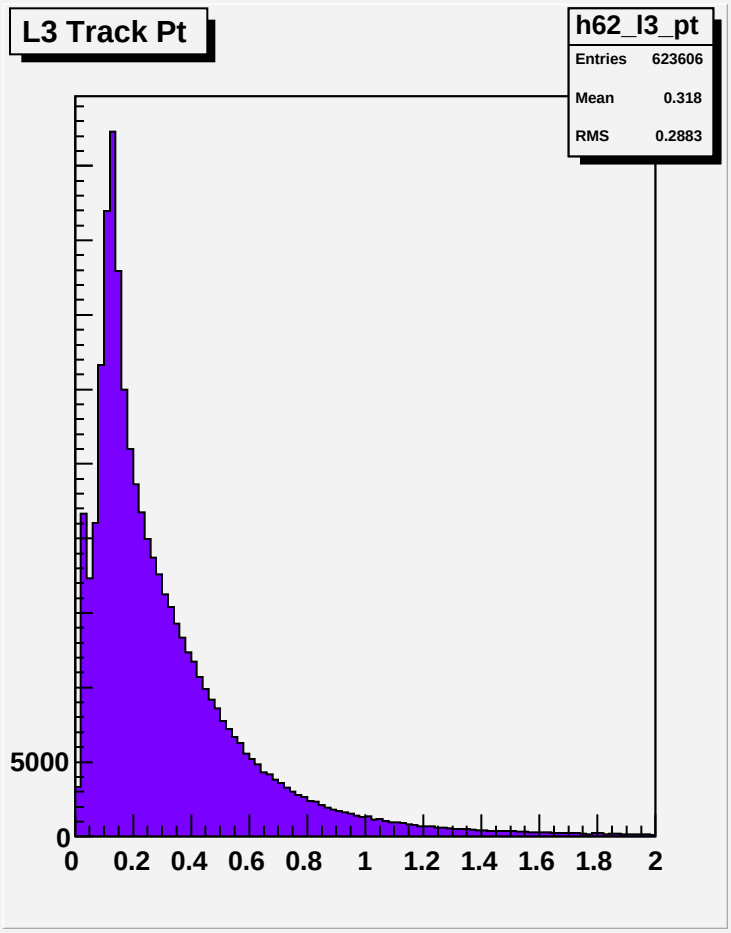

L3 Y vertex
h90_l3_Yvertex
Entries 916
Mean 0.06467
RMS 0.1405
0 20 40 60 80 100 120 140
-4 -3 -2 -1 0 1 2 3 4

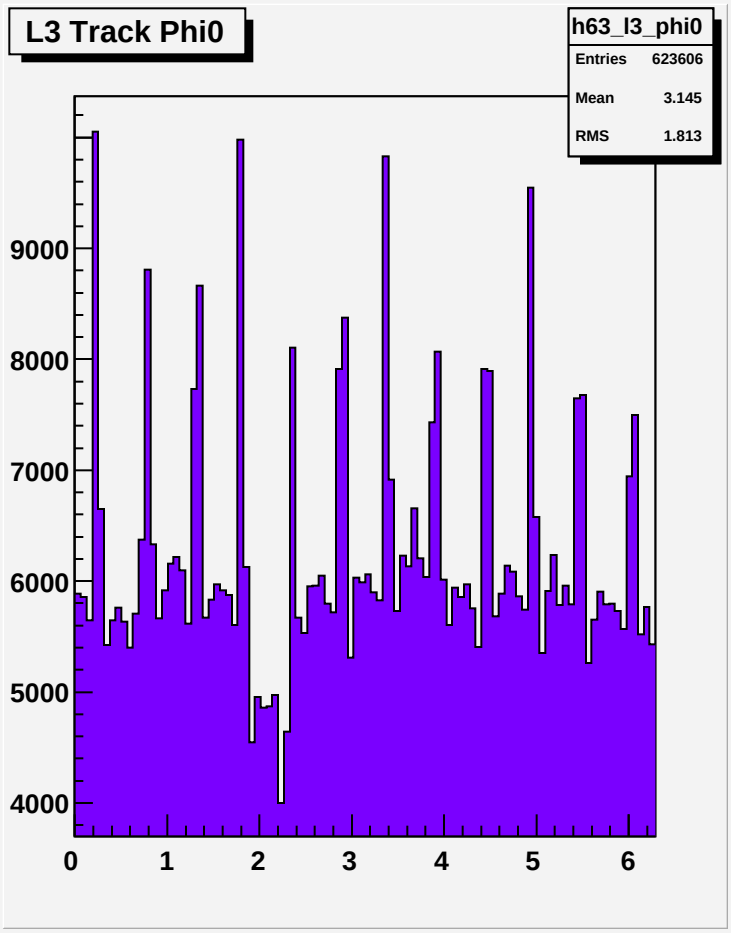

L3 Z vertex
h91_l3_Zvertex
Entries 916
Mean 4.389
RMS 60
0 5 10 15 20 25 30 35
-200 -150 -100 -50 0 50 100 150 200

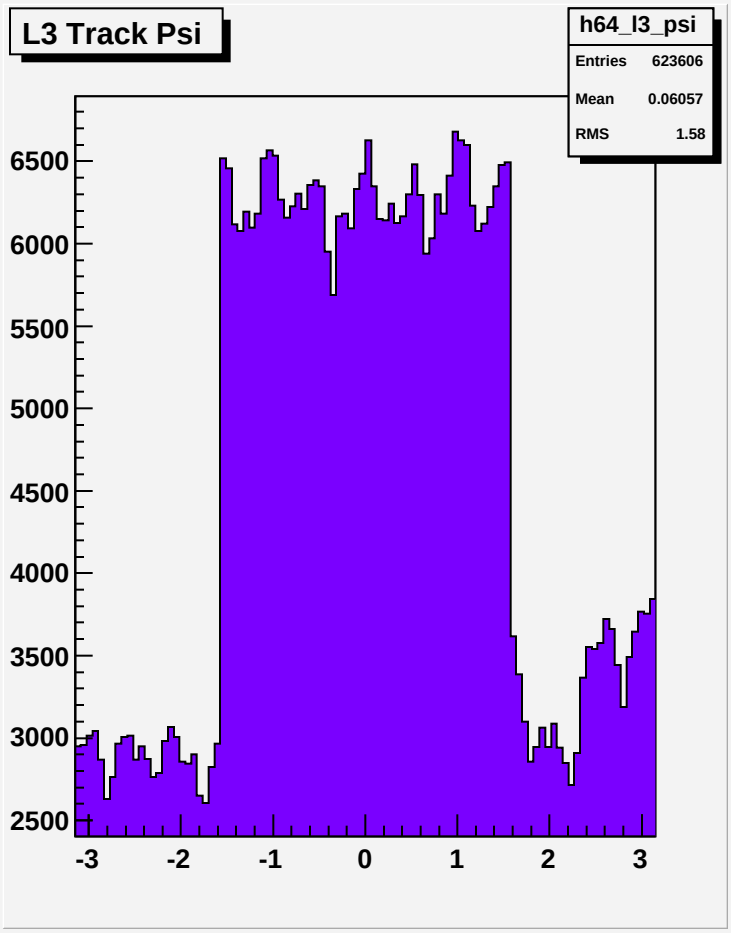

ZDC Vertex vs L3 Vertex
100
80
60
40
20
0
-20
-40
-60
-80
-100
-200 -150 -100 -50 0 50 100 150 200
30
25
20
15
10
5
0

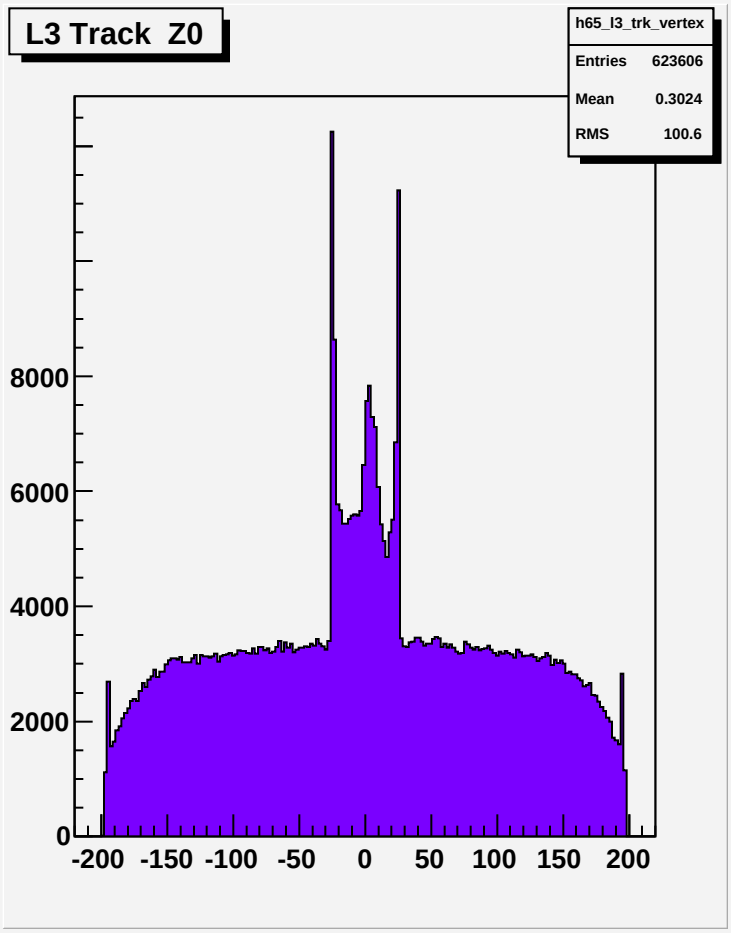

BBC Vertex vs L3 Vertex
100
80
60
40
20
0
-20
-40
-60
-80
-100
-100 -80 -60 -40 -20 0 20 40 60 80 100
3
2.5
2
1.5
1
0.5
0

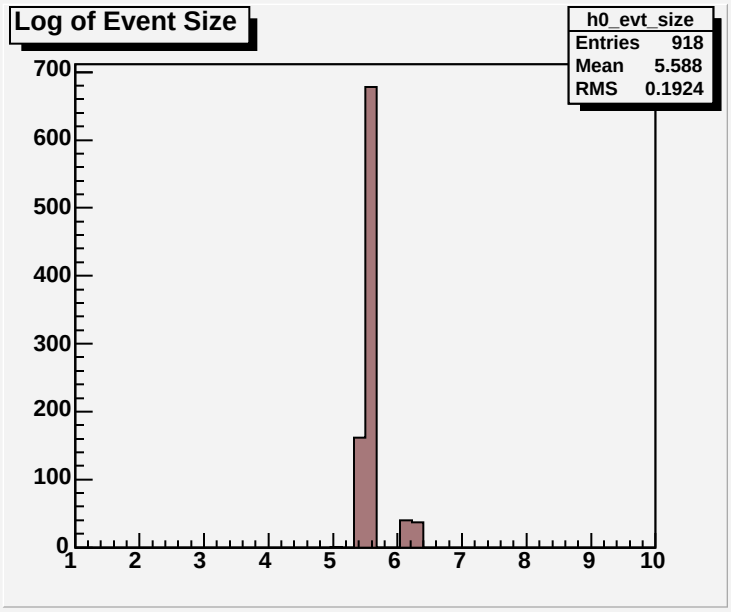

L3 Vertex Y vs X
10
8
6
4
2
0
-2
-4
-6
-8
-10
-10 -8 -6 -4 -2 0 2 4 6 8 10
250
200
150
100
50
0

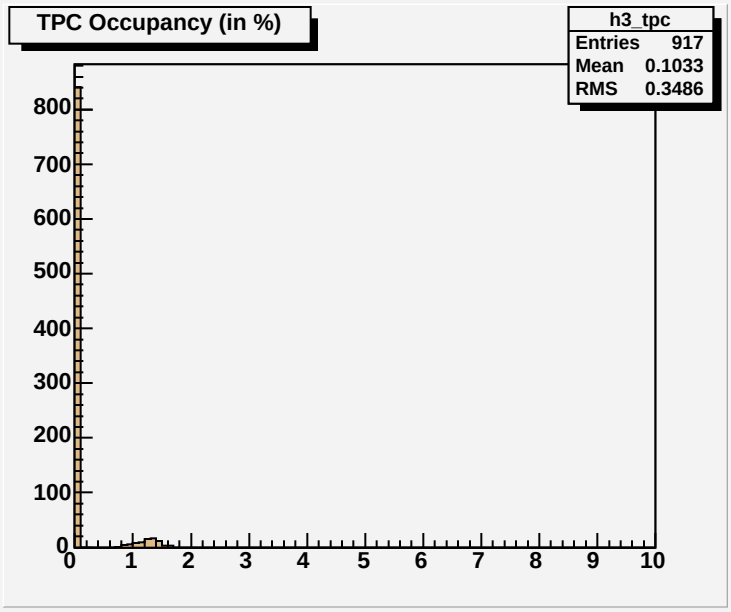

L3 Track Pt
h62_l3_pt
Entries 623606
Mean 0.318
RMS 0.2883
5000
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2

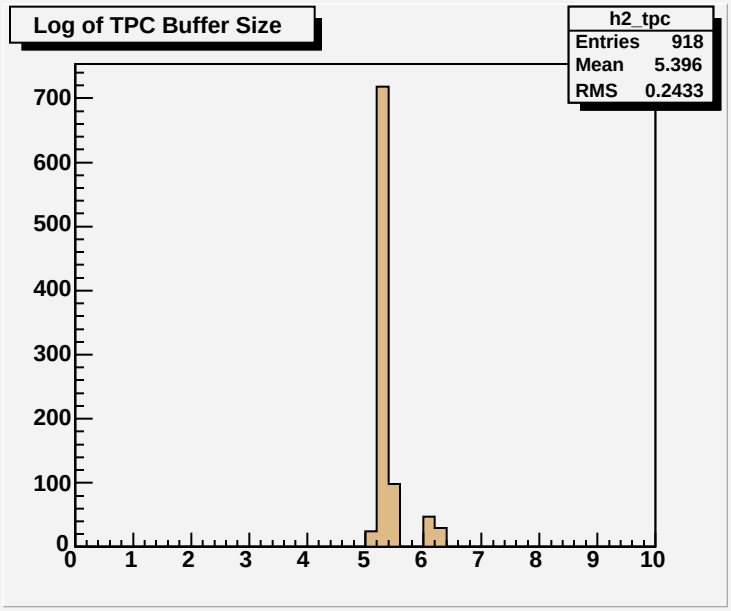

L3 Track Phi0
h63_l3_phi0
Entries 623606
Mean 3.145
RMS 1.813
9000
8000
7000
6000
5000
4000
0 1 2 3 4 5 6

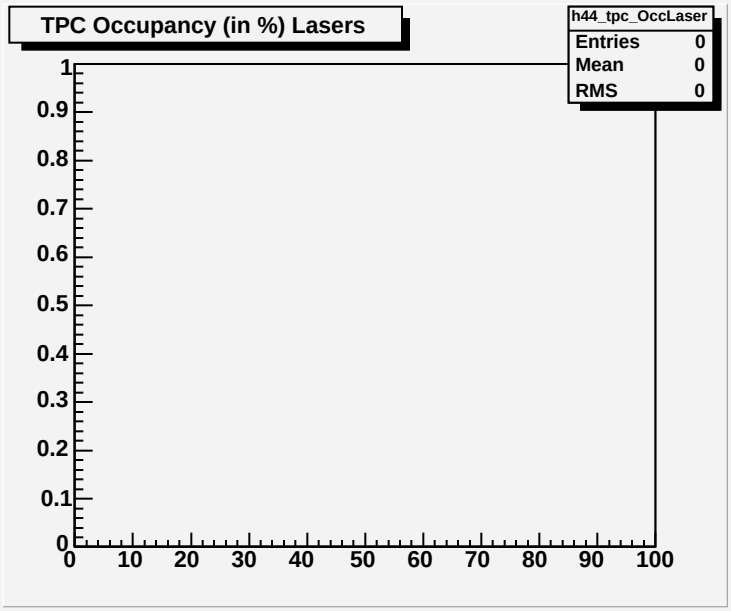

L3 Track Psi
h64_l3_psi
Entries 623606
Mean 0.06057
RMS 1.58
6500
6000
5500
5000
4500
4000
3500
3000
2500
-3 -2 -1 0 1 2 3

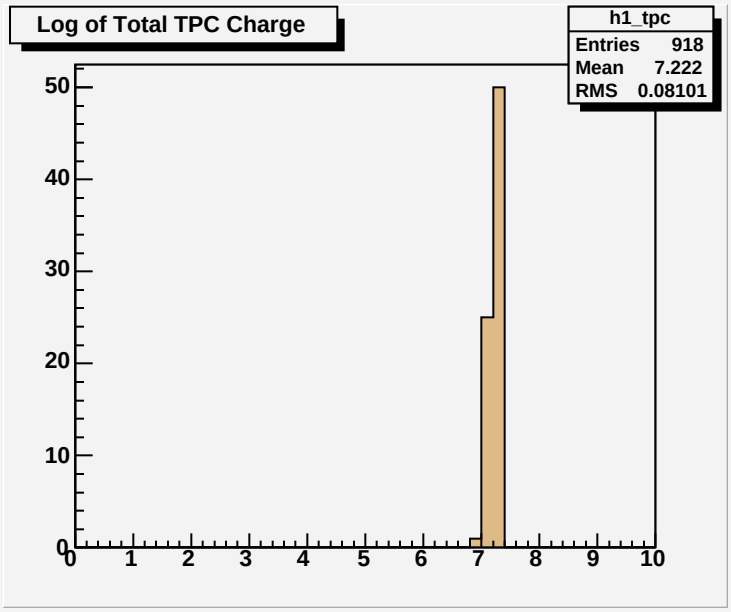

L3 Track Z0
h65_l3_trk_vertex
Entries 623606
Mean 0.3024
RMS 100.6
8000
6000
4000
2000
0
-200 -150 -100 -50 0 50 100 150 200

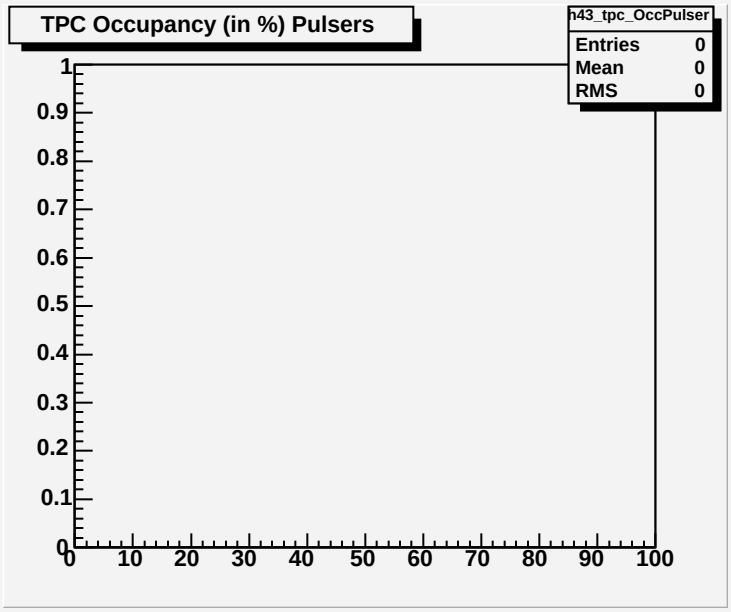

Log of Event Size
h0_evt_size
Entries 918
Mean 5.588
RMS 0.1924

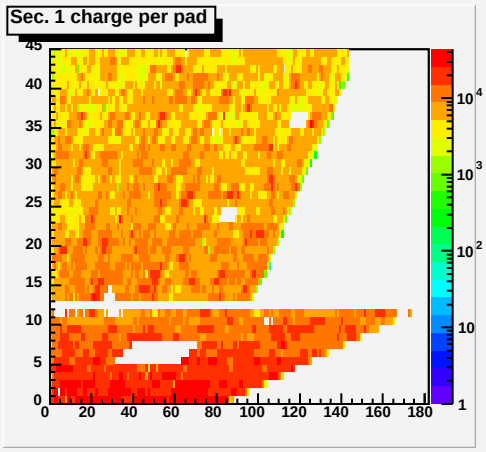

TPC Occupancy (in %)
h3_tpc
Entries 917
Mean 0.1033
RMS 0.3486

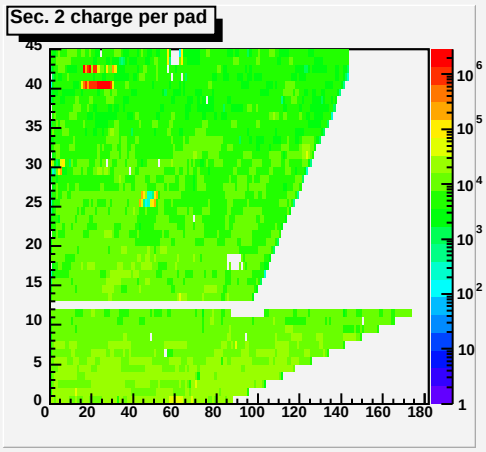

Log of TPC Buffer Size
h2_tpc
Entries 918
Mean 5.396
RMS 0.2433

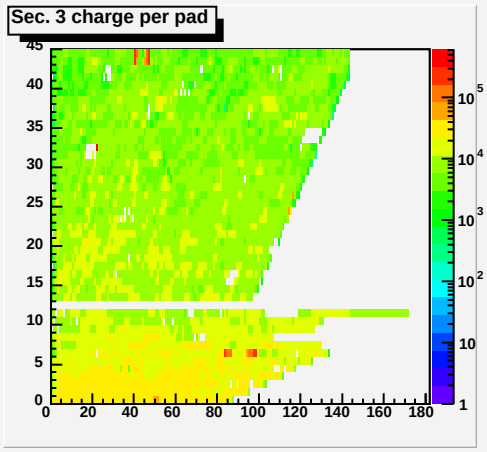

TPC Occupancy (in %) Lasers
h44_tpc_OccLaser
Entries 0
Mean 0
RMS 0

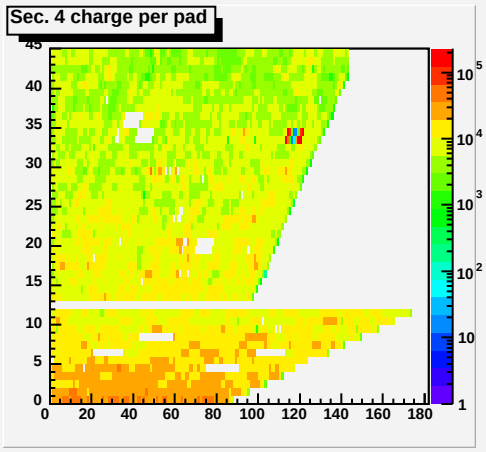

Log of Total TPC Charge
h1_tpc
Entries 918
Mean 7.222
RMS 0.08101

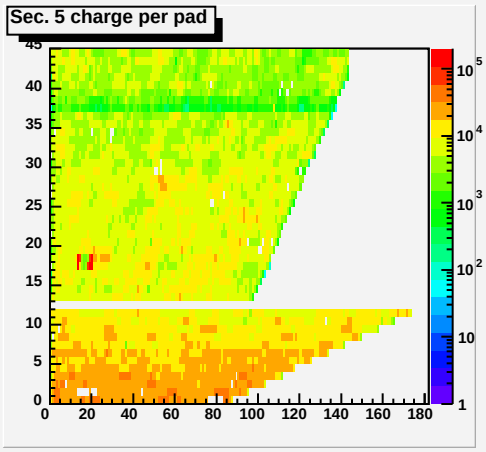

TPC Occupancy (in %) Pulsers
h43_tpc_OccPulser
Entries 0
Mean 0
RMS 0

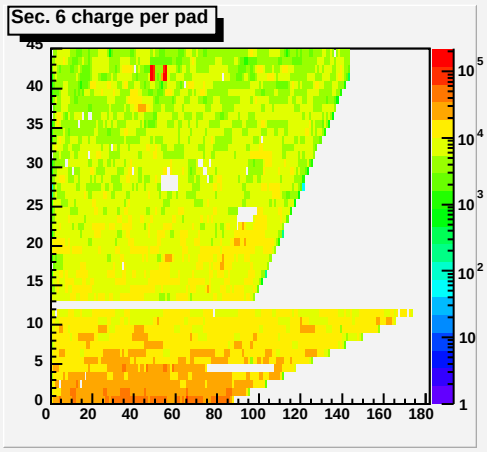

Sec. 1 charge per pad

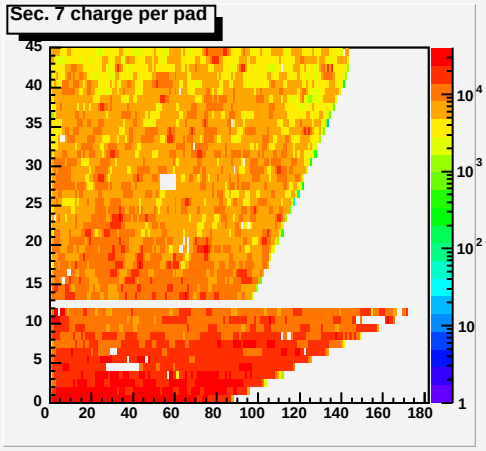

Sec. 2 charge per pad

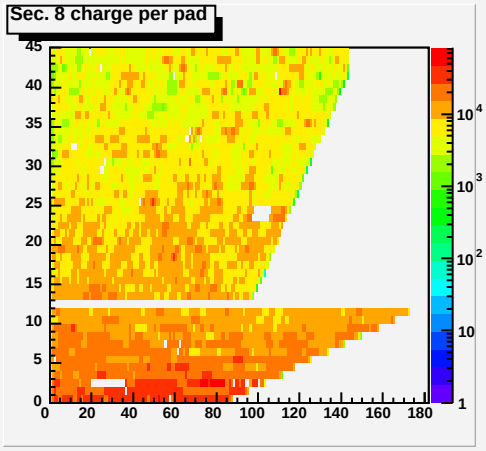

Sec. 3 charge per pad

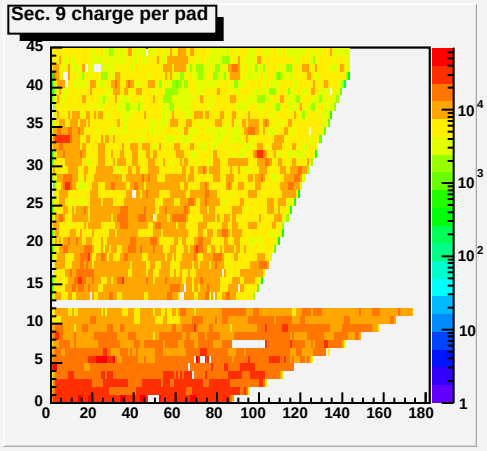

Sec. 4 charge per pad

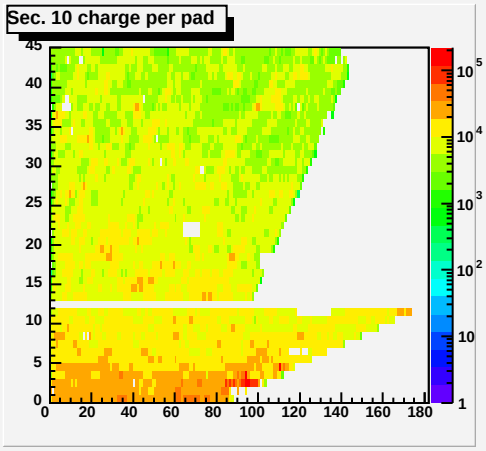

Sec. 5 charge per pad

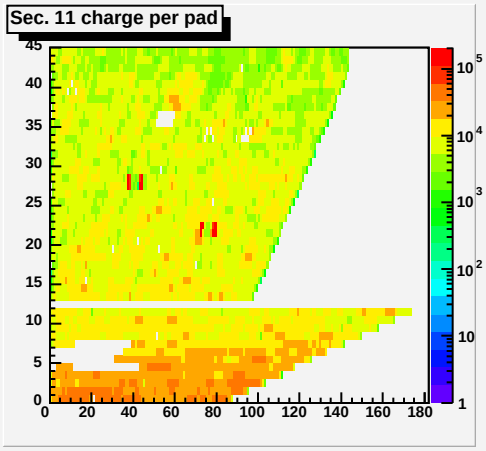

Sec. 6 charge per pad

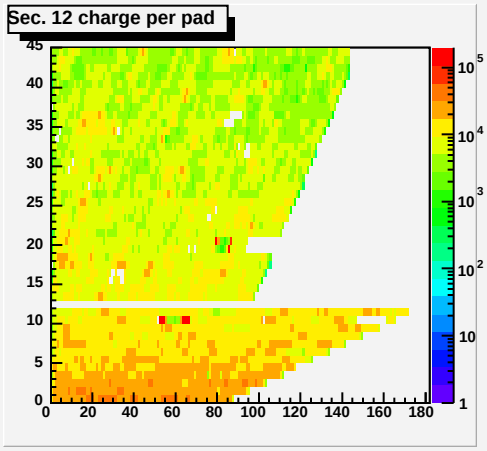

Sec. 7 charge per pad

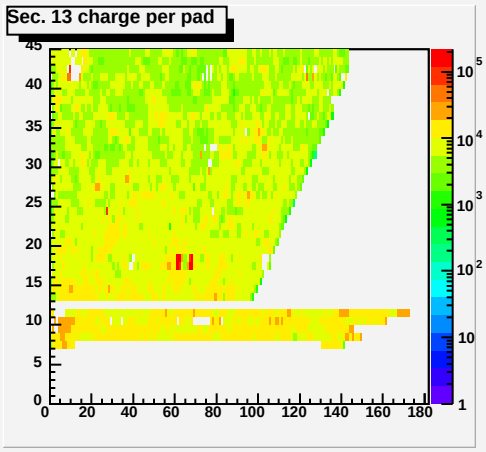

Sec. 8 charge per pad

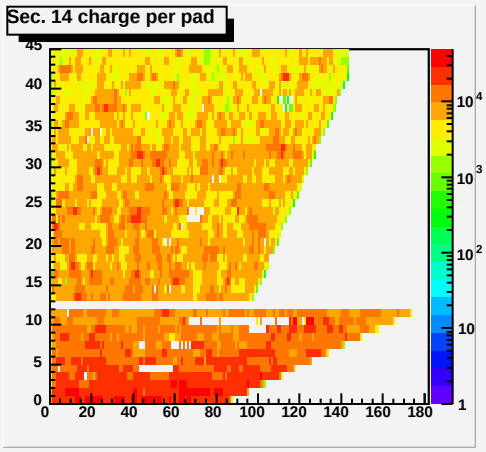

Sec. 9 charge per pad

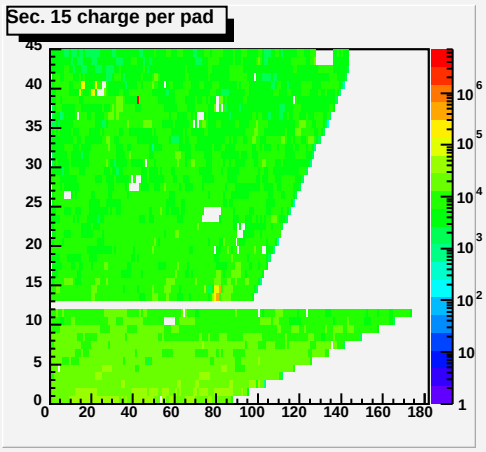

Sec. 10 charge per pad

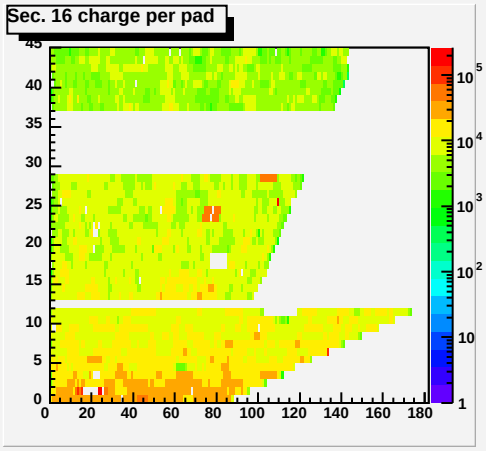

Sec. 11 charge per pad

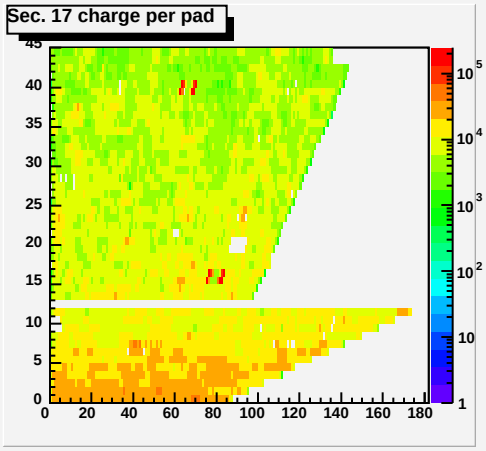

Sec. 12 charge per pad

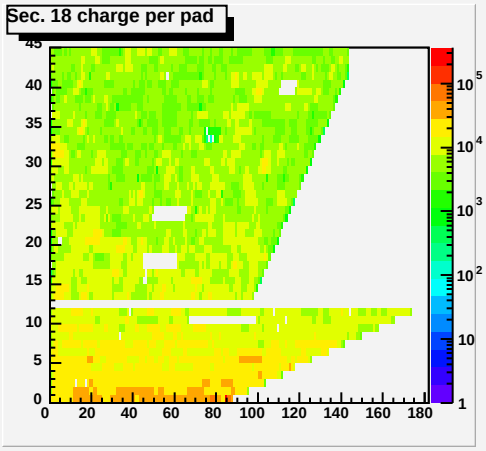

Sec. 13 charge per pad

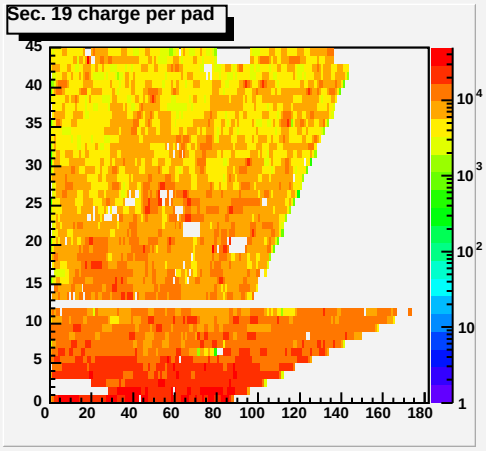

Sec. 14 charge per pad

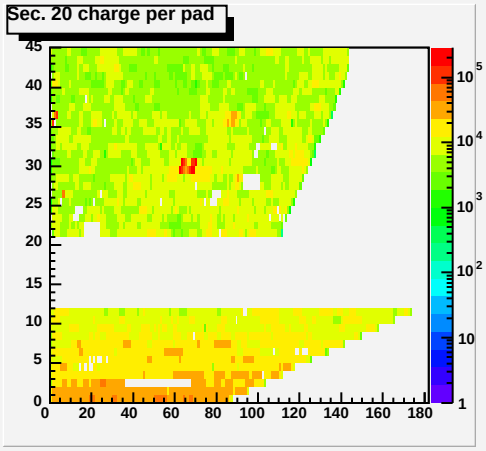

Sec. 15 charge per pad

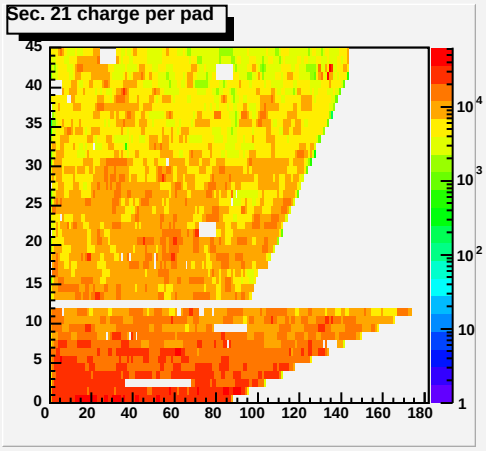

Sec. 16 charge per pad

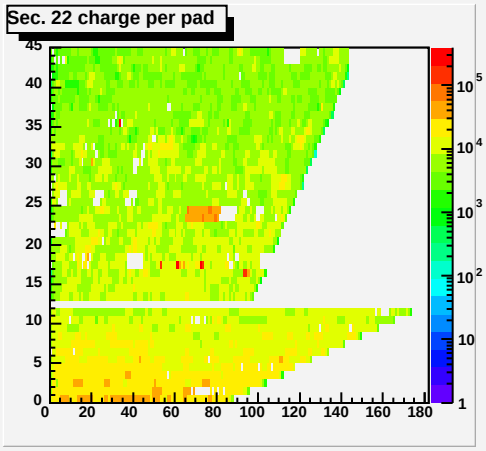

Sec. 17 charge per pad

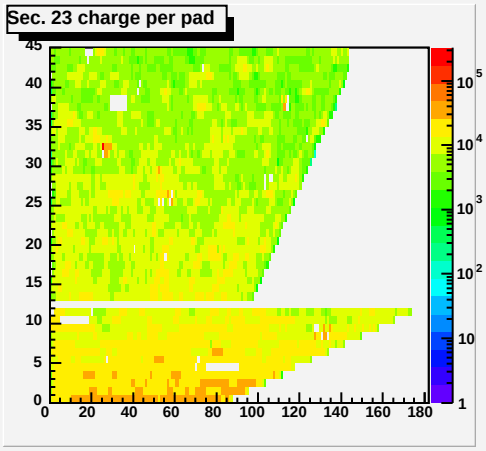

Sec. 18 charge per pad

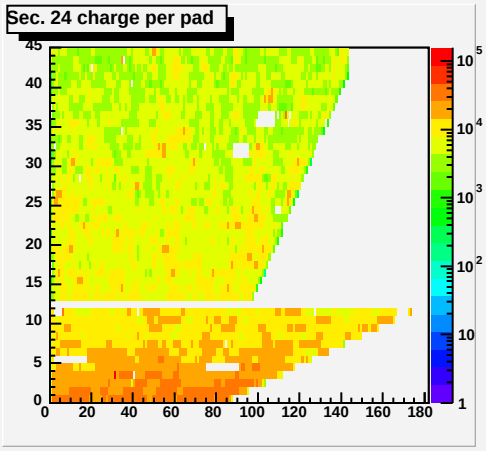

Sec. 19 charge per pad

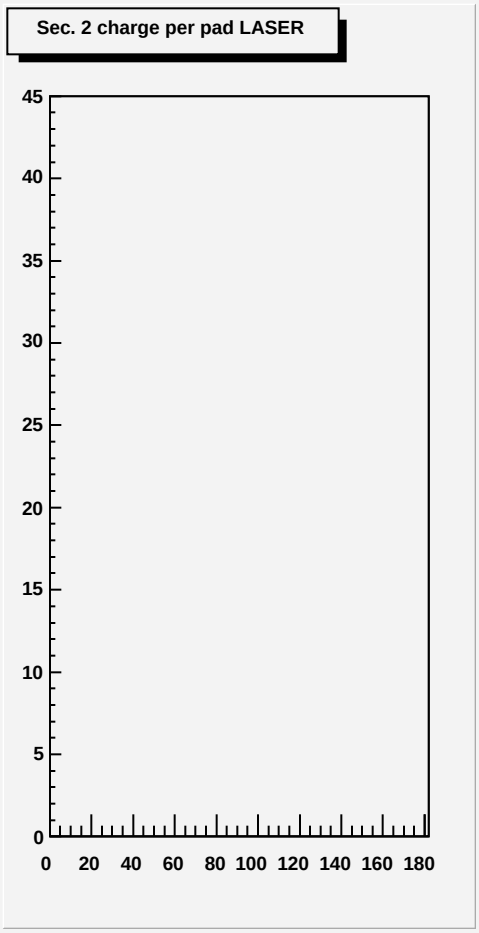

Sec. 20 charge per pad

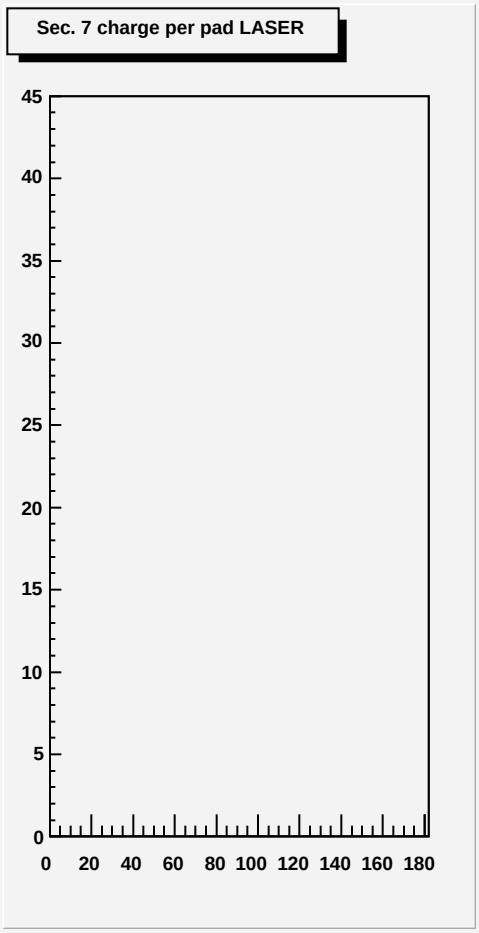

Sec. 21 charge per pad


Sec. 22 charge per pad


Sec. 23 charge per pad


Sec. 24 charge per pad


Sec. 2 charge per pad LASER
45
40
35
30
25
20
15
10
5
0
0 20 40 60 80 100 120 140 160 180


Sec. 7 charge per pad LASER
45
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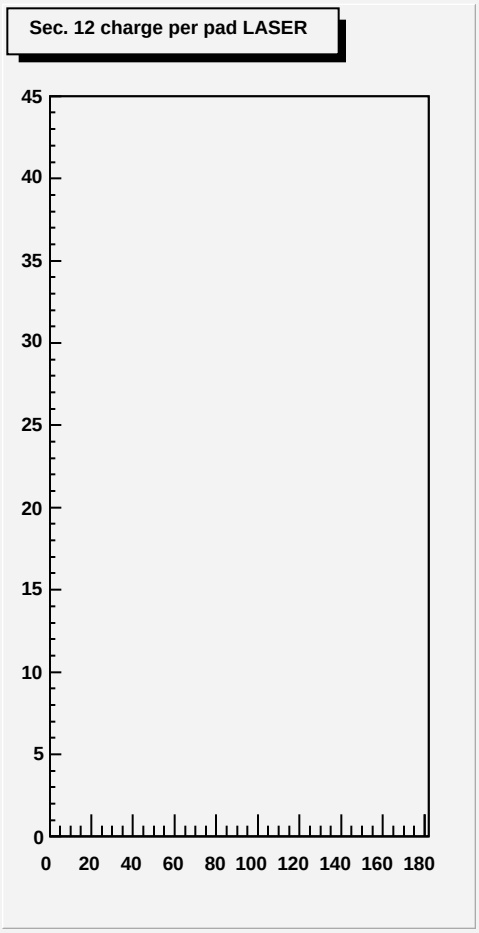
0 20 40 60 80 100 120 140 160 180


Sec. 12 charge per pad LASER
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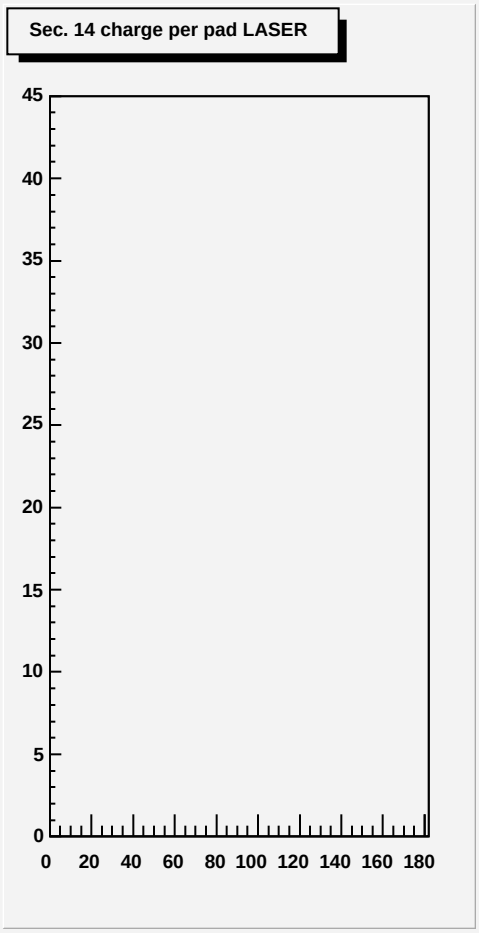
Sec. 14 charge per pad LASER
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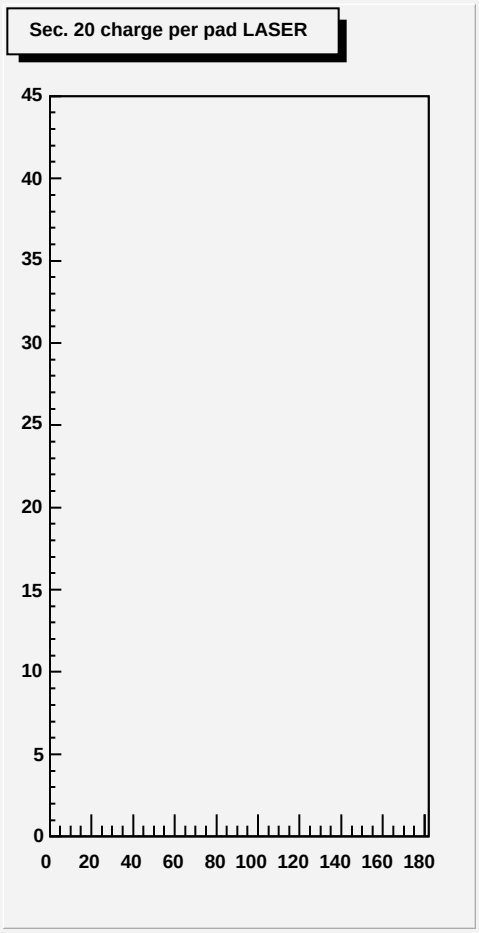
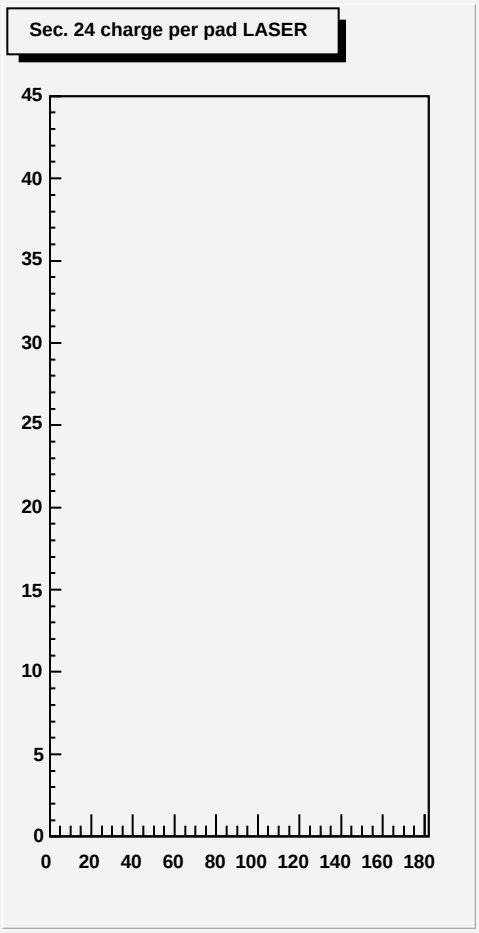
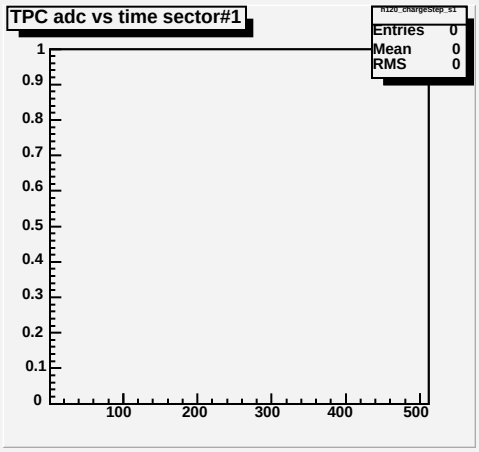
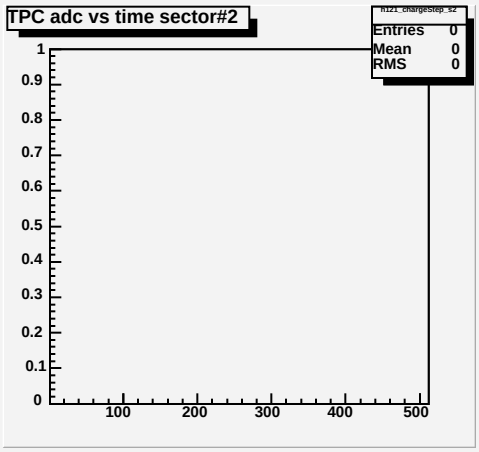
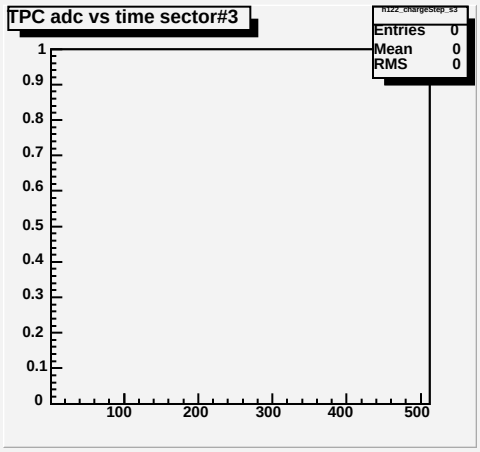
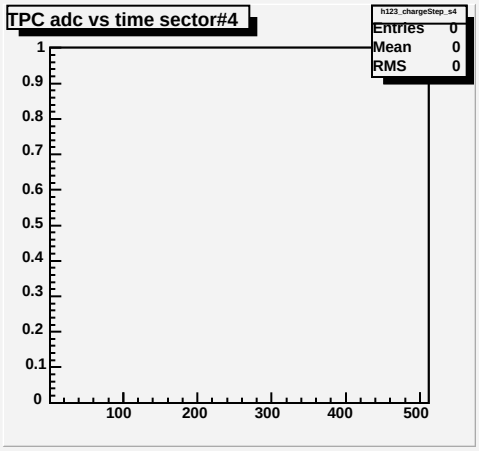

Sec. 20 charge per pad LASER
45
40
35
30
25
20
15
10
5
0
0 20 40 60 80 100 120 140 160 180

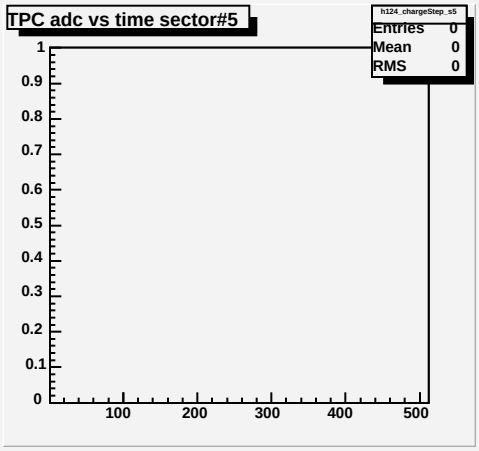

Sec. 24 charge per pad LASER
45
40
35
30
25
20
15
10
5
0
0 20 40 60 80 100 120 140 160 180

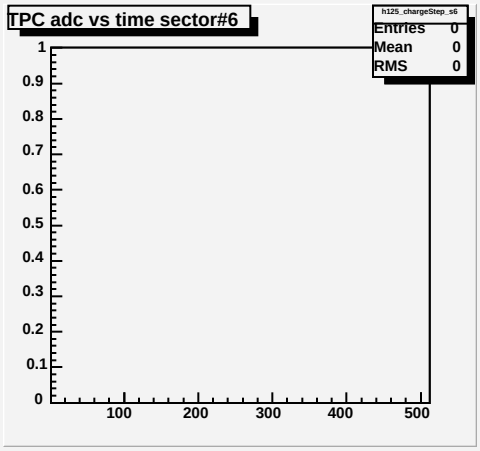

TPC adc vs time sector#1
h120_chargeStep_s1
Entries 0
Mean 0
RMS 0

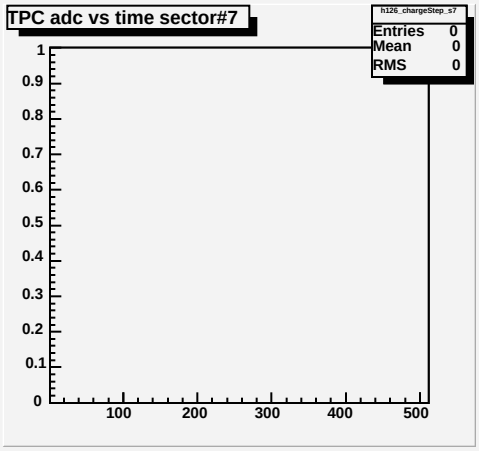

TPC adc vs time sector#2
h121_chargeStep_s2
Entries 0
Mean 0
RMS 0

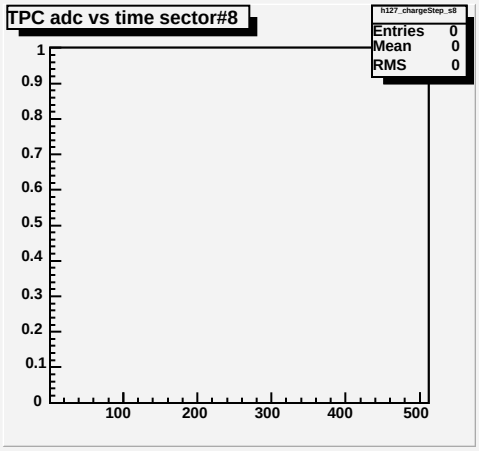

TPC adc vs time sector#3
h122_chargeStep_s3
Entries 0
Mean 0
RMS 0

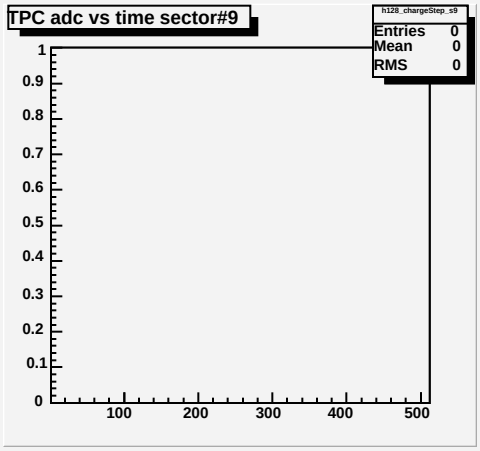

TPC adc vs time sector#4
h123_chargeStep_s4
Entries 0
Mean 0
RMS 0

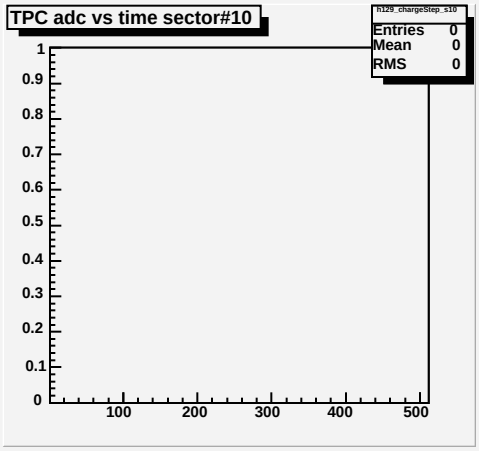

TPC adc vs time sector#5
h124_chargeStep_s5
Entries 0
Mean 0
RMS 0

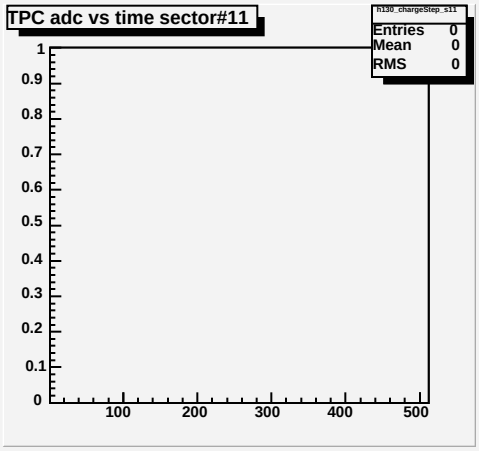

TPC adc vs time sector#6
h125_chargeStep_s6
Entries 0
Mean 0
RMS 0

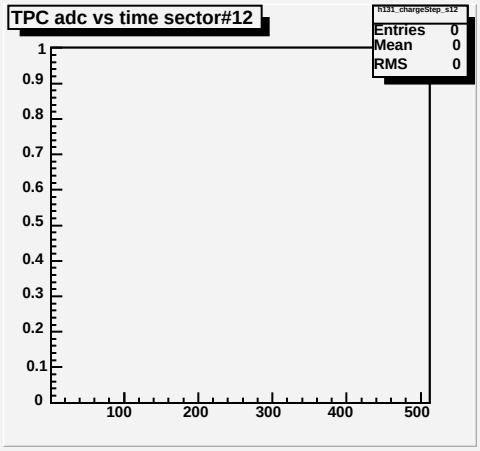

TPC adc vs time sector#7
h126_chargeStep_s7
Entries 0
Mean 0
RMS 0

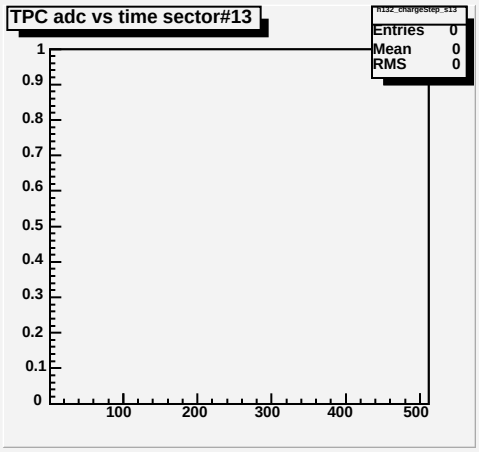

TPC adc vs time sector#8
h127_chargeStep_s8
Entries 0
Mean 0
RMS 0

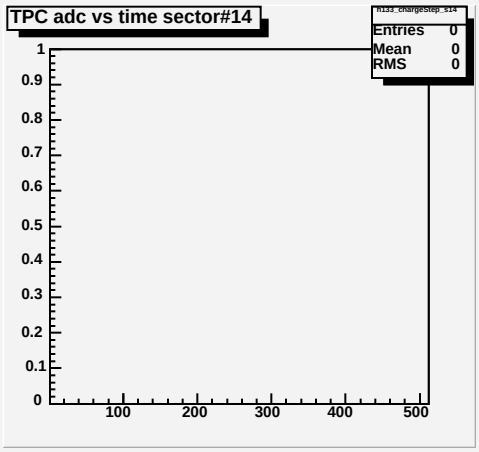

TPC adc vs time sector#9
h128_chargeStep_s9
Entries 0
Mean 0
RMS 0

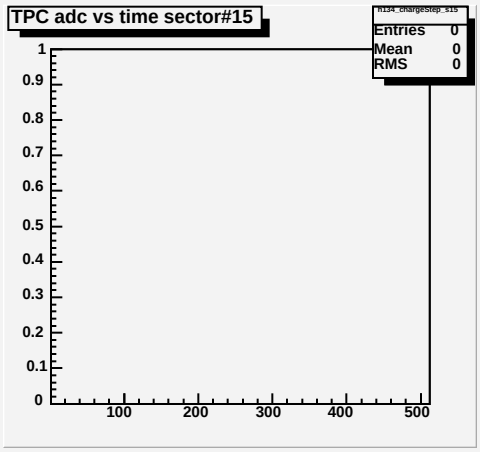

TPC adc vs time sector#10
h129_chargeStep_s10
Entries 0
Mean 0
RMS 0

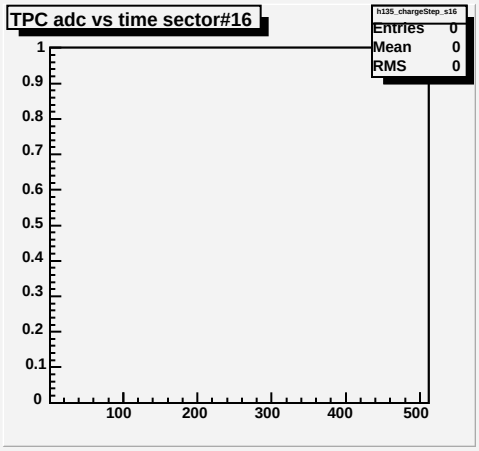

TPC adc vs time sector#11
h130_chargeStep_s11
Entries 0
Mean 0
RMS 0

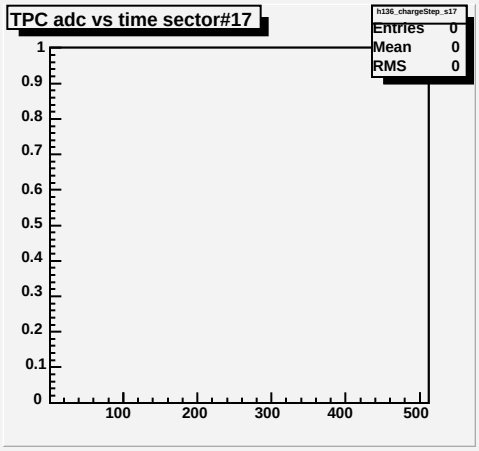

TPC adc vs time sector#12
h131_chargeStep_s12
Entries 0
Mean 0
RMS 0

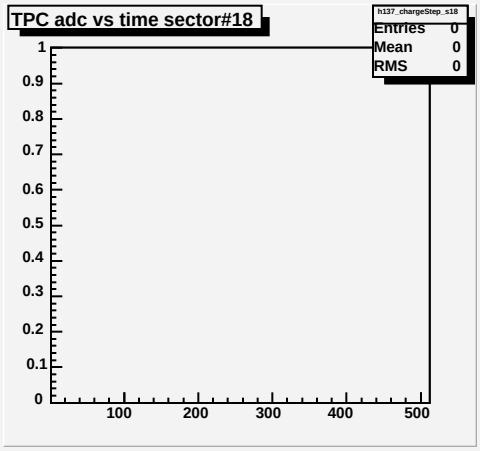

TPC adc vs time sector#13
h132_chargeStep_s13
Entries 0
Mean 0
RMS 0

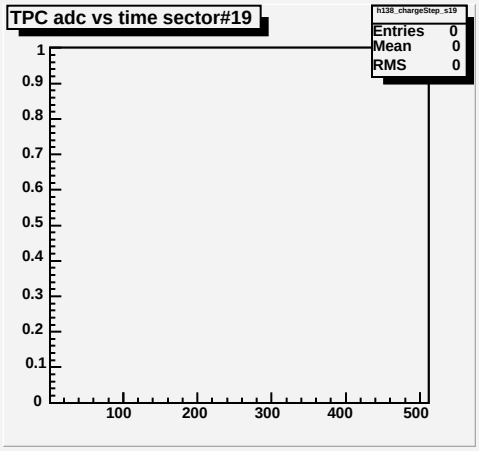

TPC adc vs time sector#14
h133_chargeStep_s14
Entries 0
Mean 0
RMS 0

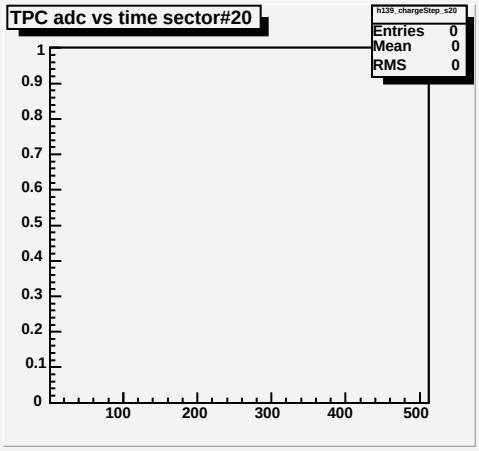

TPC adc vs time sector#15
h134_chargeStep_s15
Entries 0
Mean 0
RMS 0

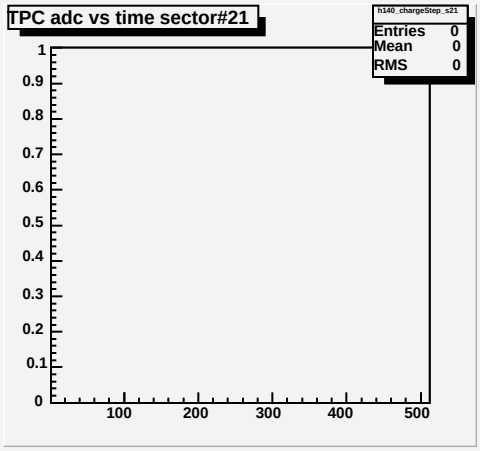

TPC adc vs time sector#16
h135_chargeStep_s16
Entries 0
Mean 0
RMS 0

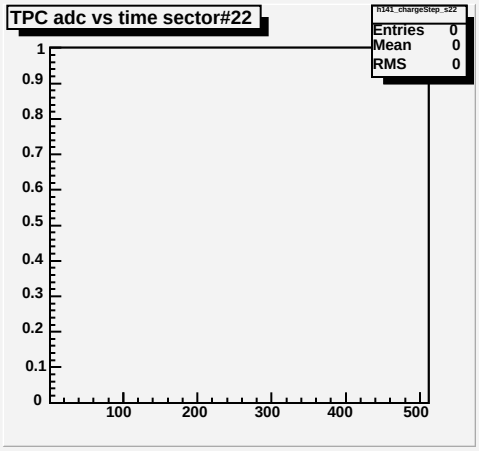

TPC adc vs time sector#17
h136_chargeStep_s17
Entries 0
Mean 0
RMS 0

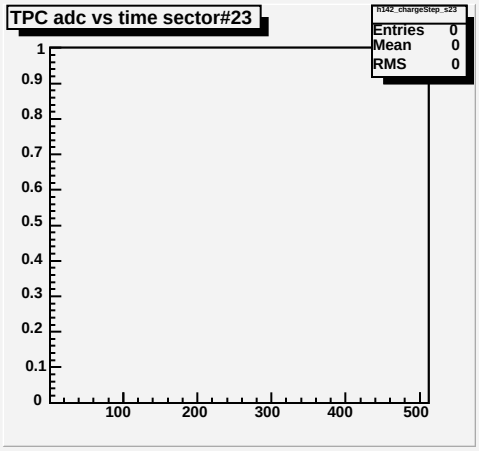

TPC adc vs time sector#18
h137_chargeStep_s18
Entries 0
Mean 0
RMS 0

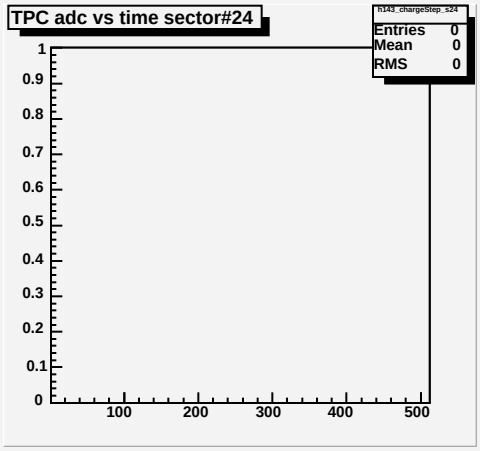

TPC adc vs time sector#19
h138_chargeStep_s19
Entries 0
Mean 0
RMS 0

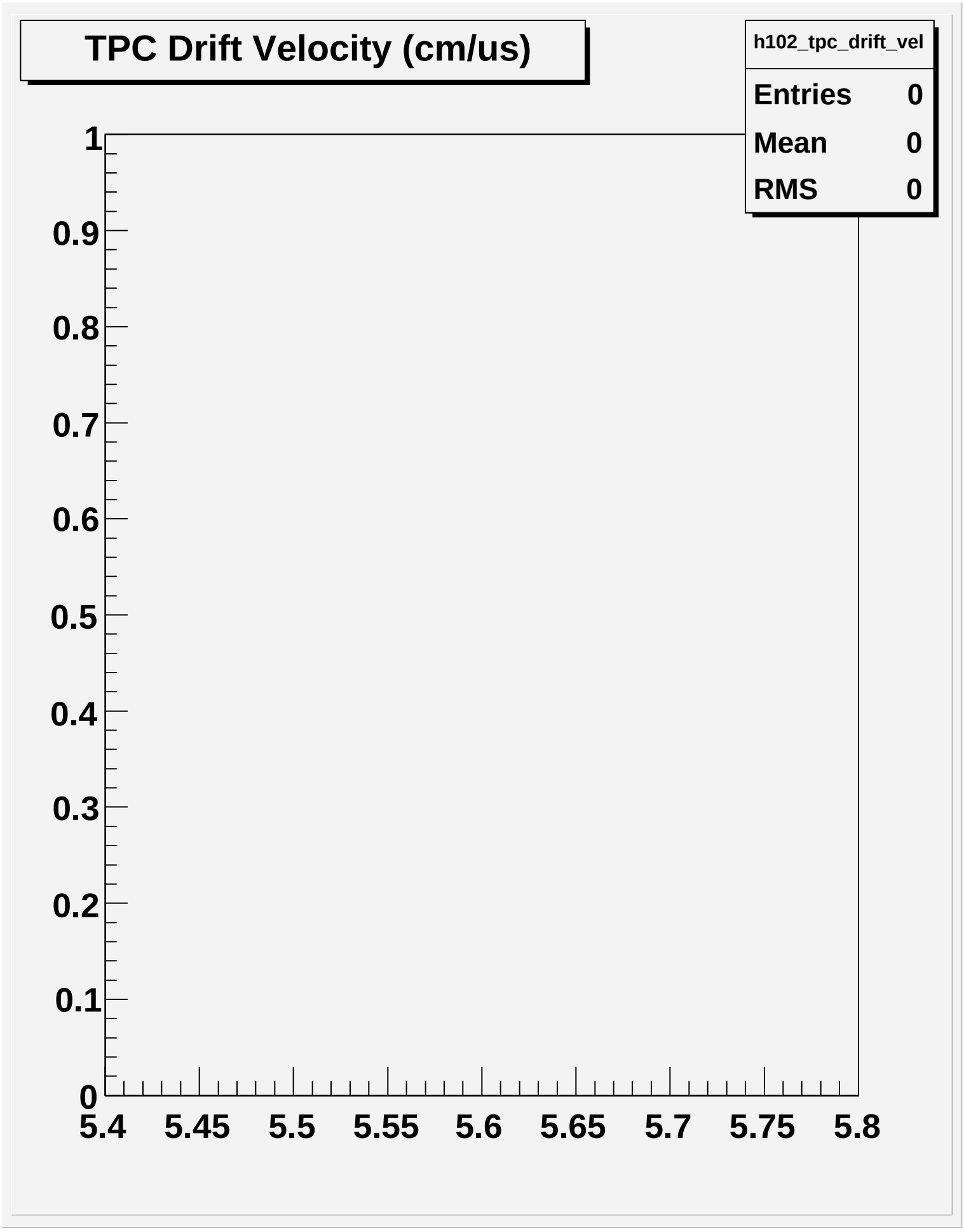

TPC adc vs time sector#20
h139_chargeStep_s20
Entries 0
Mean 0
RMS 0

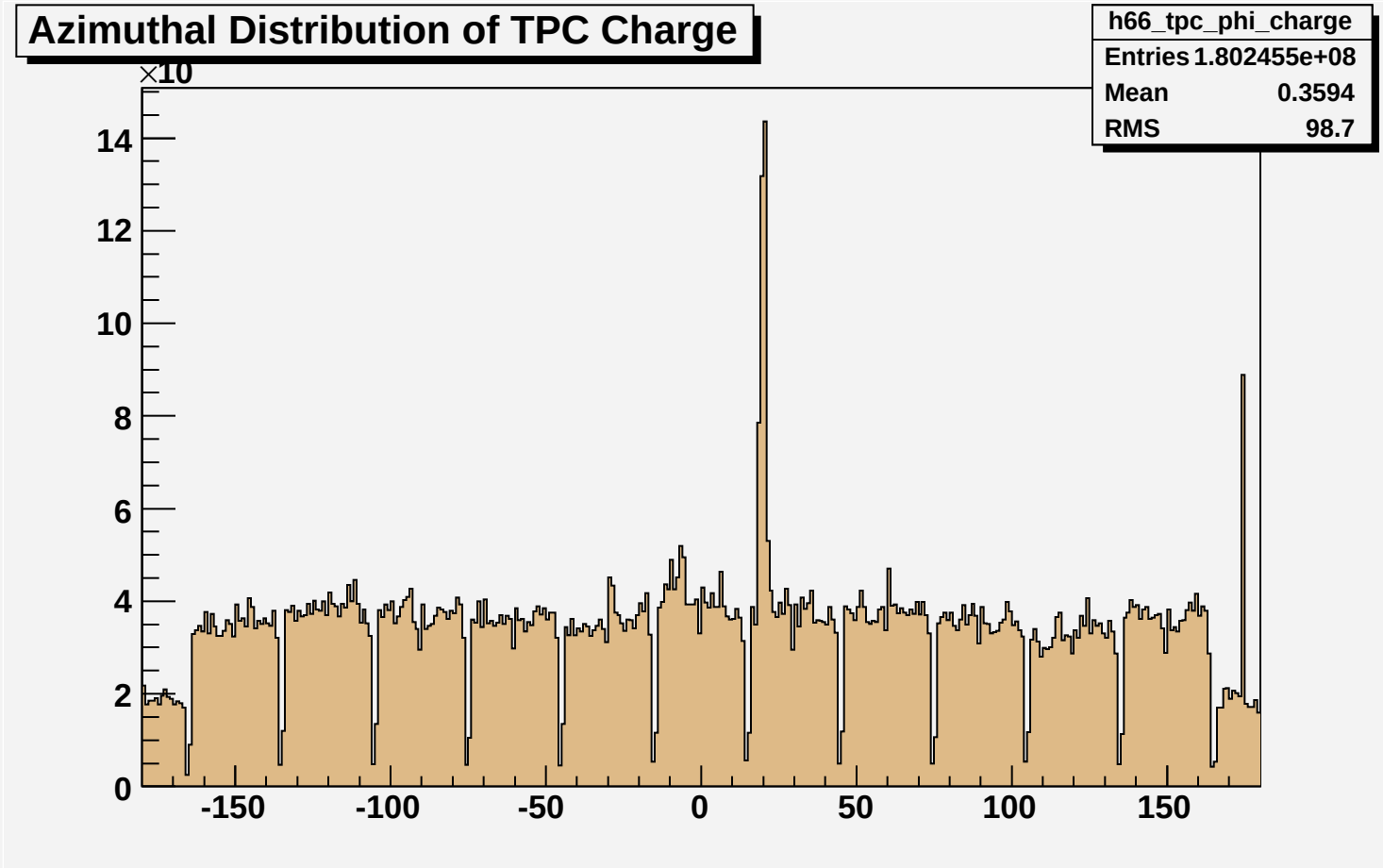

TPC adc vs time sector#21
h140_chargeStep_s21
Entries 0
Mean 0
RMS 0

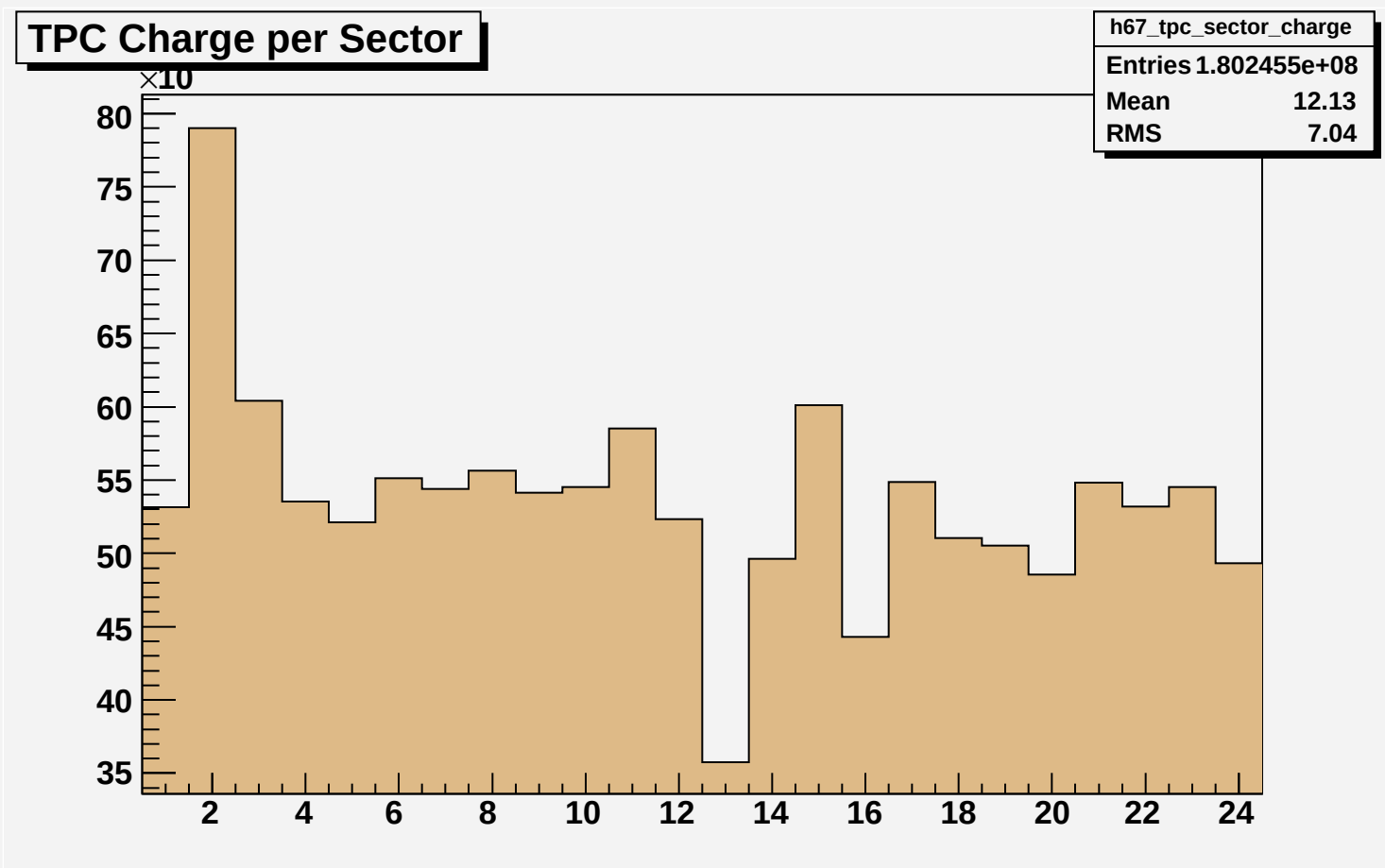

TPC adc vs time sector#22
h141_chargeStep_s22
Entries 0
Mean 0
RMS 0

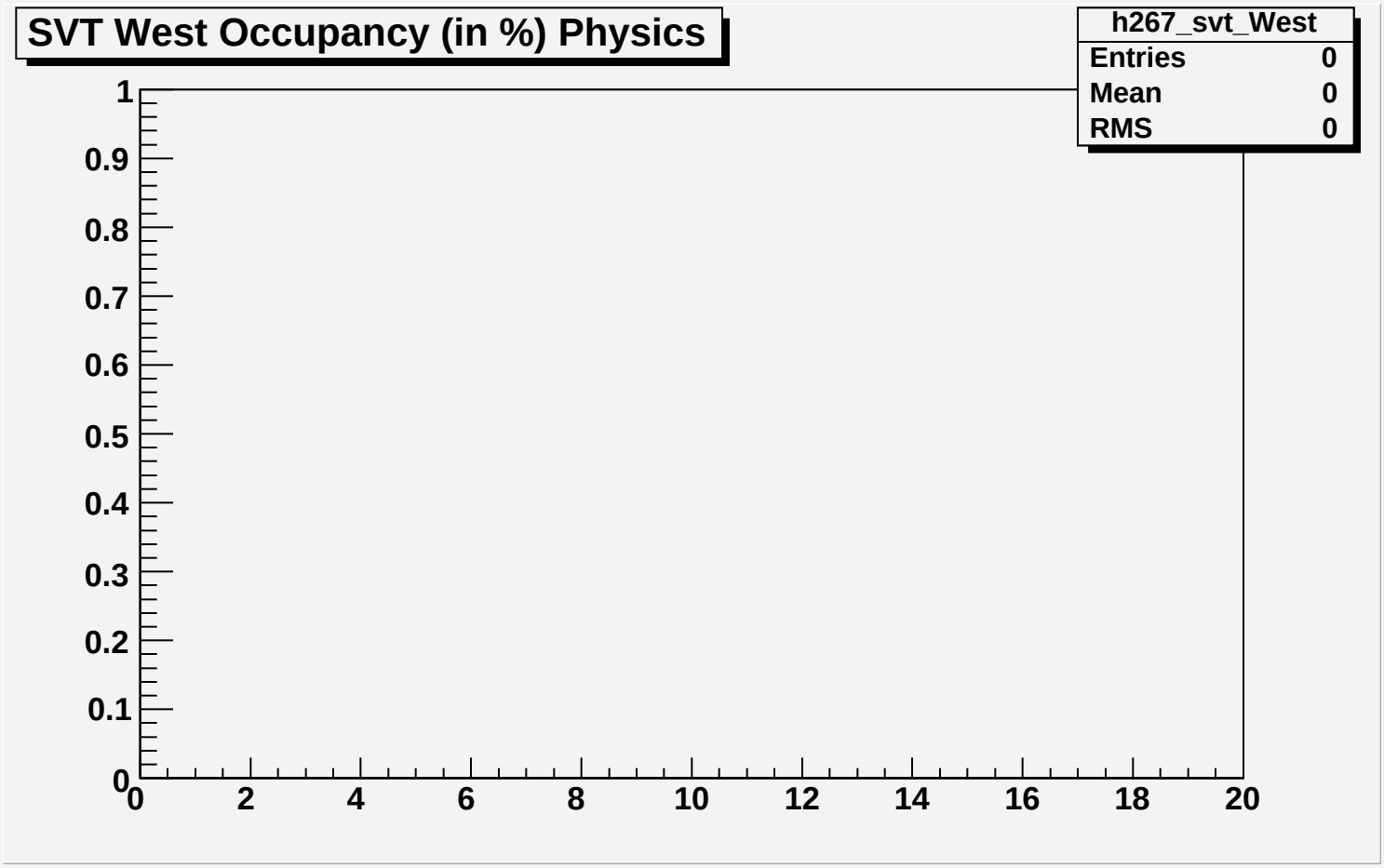

TPC adc vs time sector#23
h142_chargeStep_s23
Entries 0
Mean 0
RMS 0

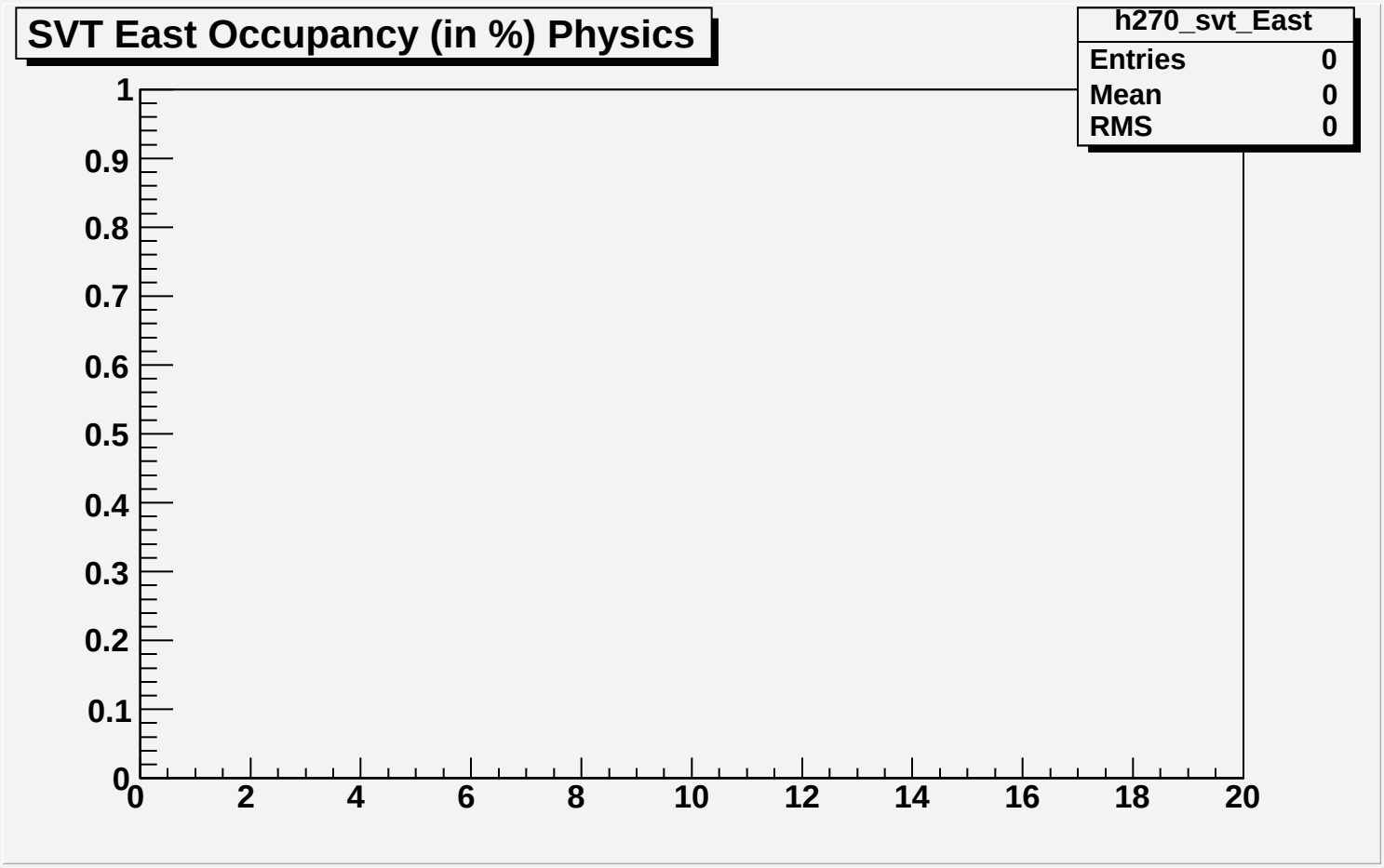

TPC adc vs time sector#24
h143_chargeStep_s24
Entries 0
Mean 0
RMS 0

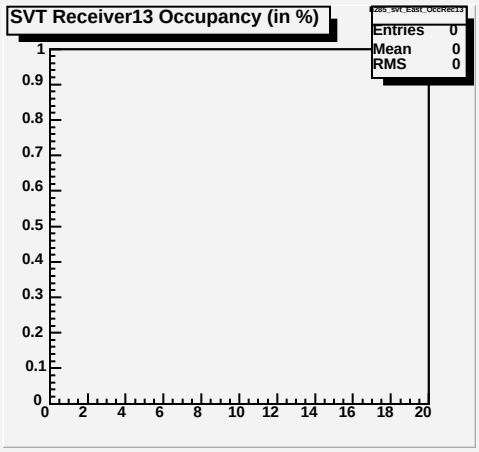

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

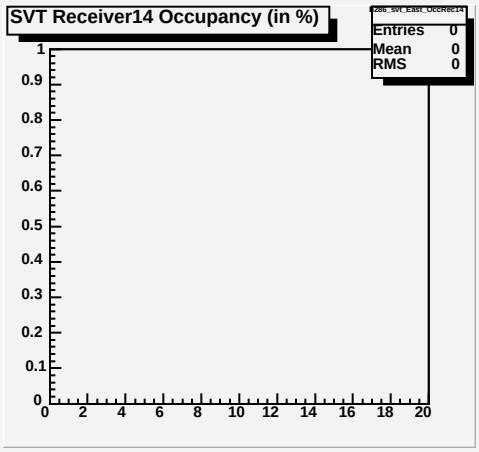

Azimuthal Distribution of TPC Charge
h66_tpc_phi_charge
Entries 1.802455e+08
Mean 0.3594
RMS 98.7
×10
14
12
10
8
6
4
2
0
-150
-100
-50
0
50
100
150

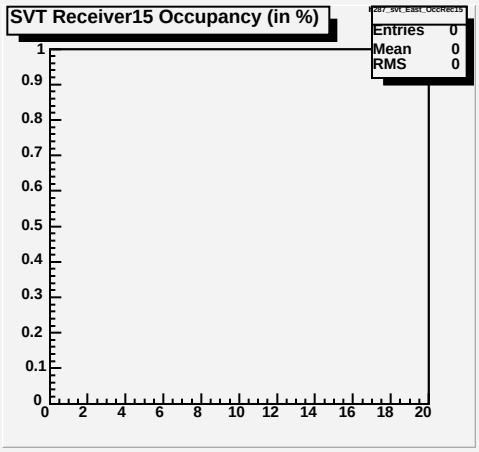

TPC Charge per Sector
h67_tpc_sector_charge
Entries 1.802455e+08
Mean 12.13
RMS 7.04
×10
80
75
70
65
60
55
50
45
40
35
2
4
6
8
10
12
14
16
18
20
22
24

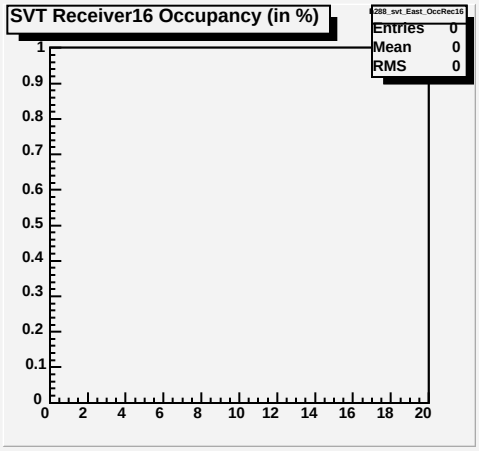

SVT West Occupancy (in %) Physics
h267_svt_West
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20

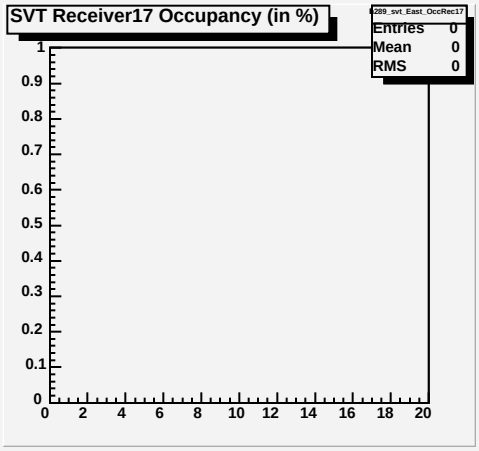

SVT East Occupancy (in %) Physics
h270_svt_East
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20

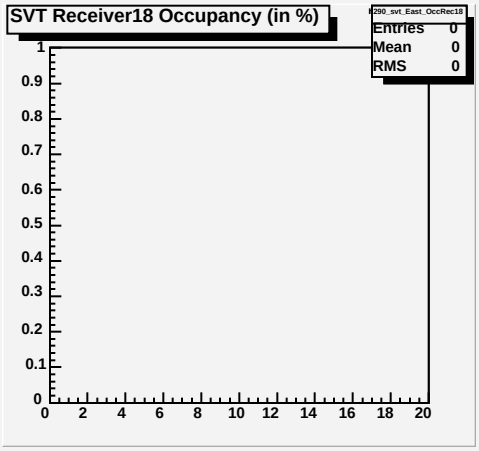

SVT Receiver13 Occupancy (in %)
h285_svt_East_OccRec13
Entries 0
Mean 0
RMS 0

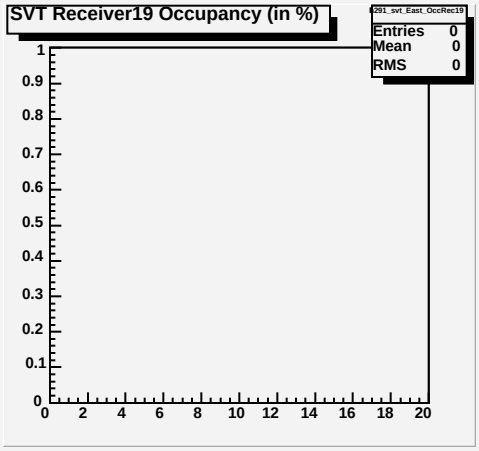

SVT Receiver14 Occupancy (in %)
h286_svt_East_OccRec14
Entries 0
Mean 0
RMS 0

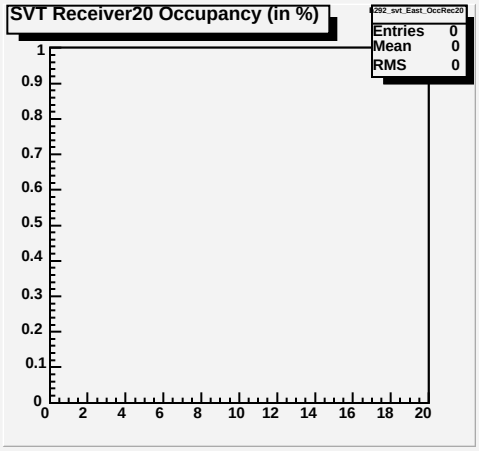

SVT Receiver15 Occupancy (in %)
h287_svt_East_OccRec15
Entries 0
Mean 0
RMS 0

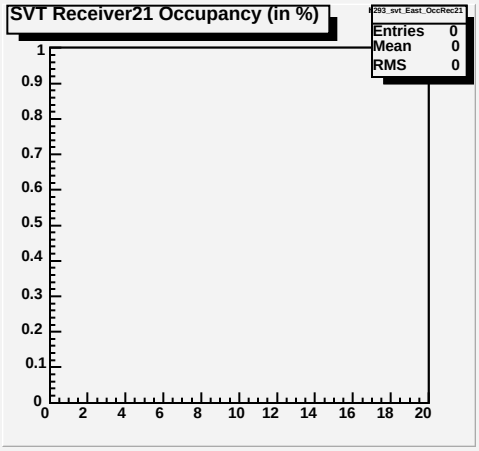

SVT Receiver16 Occupancy (in %)
h288_svt_East_OccRec16
Entries 0
Mean 0
RMS 0

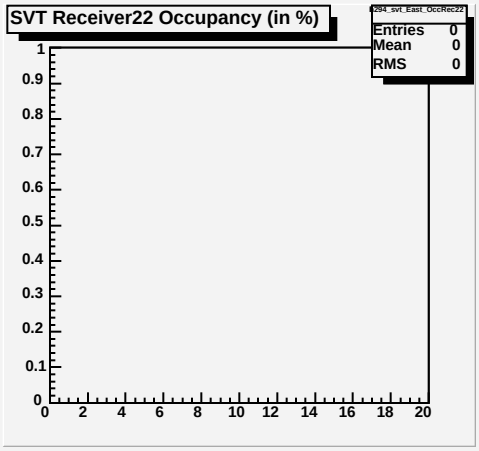

SVT Receiver17 Occupancy (in %)
h289_svt_East_OccRec17
Entries 0
Mean 0
RMS 0

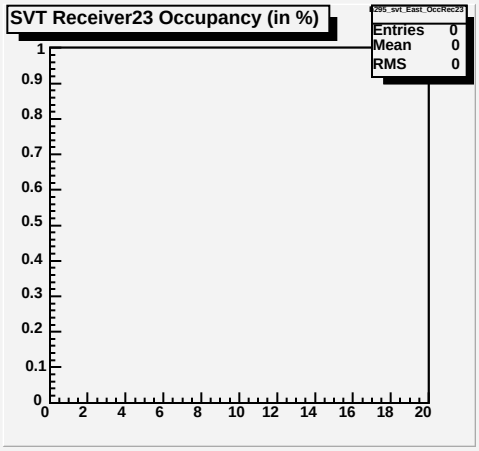

SVT Receiver18 Occupancy (in %)
h290_svt_East_OccRec18
Entries 0
Mean 0
RMS 0

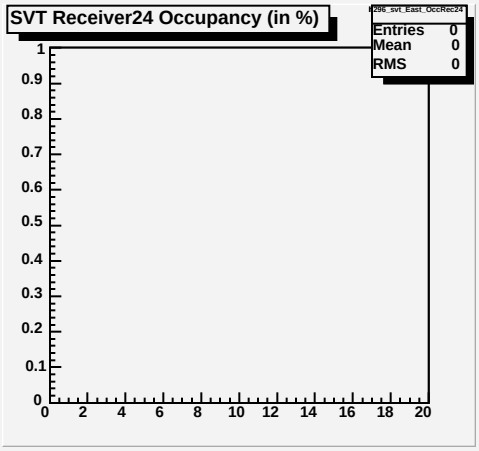

SVT Receiver19 Occupancy (in %)
h291_svt_East_OccRec19
Entries 0
Mean 0
RMS 0

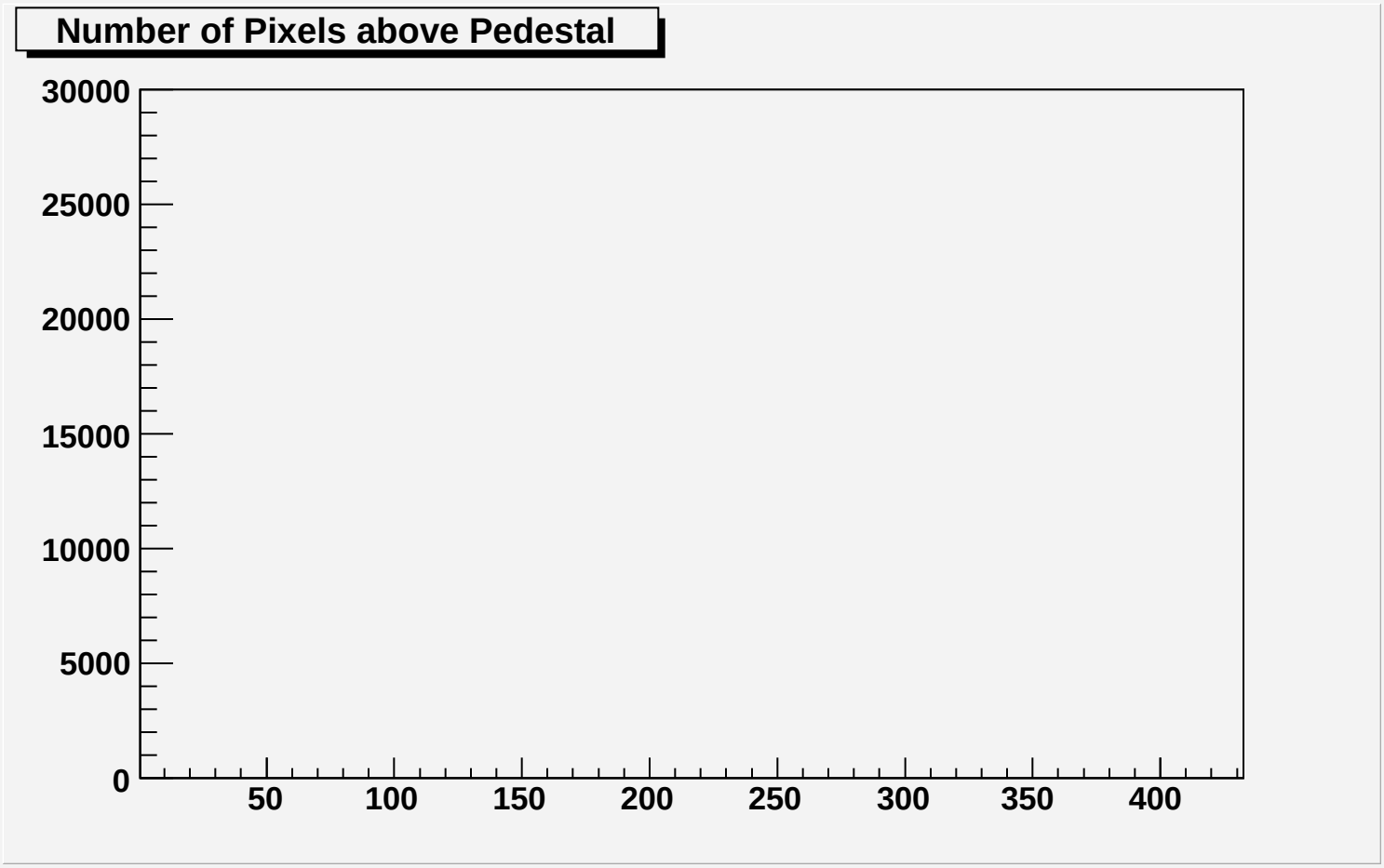

SVT Receiver20 Occupancy (in %)
h292_svt_East_OccRec20
Entries 0
Mean 0
RMS 0

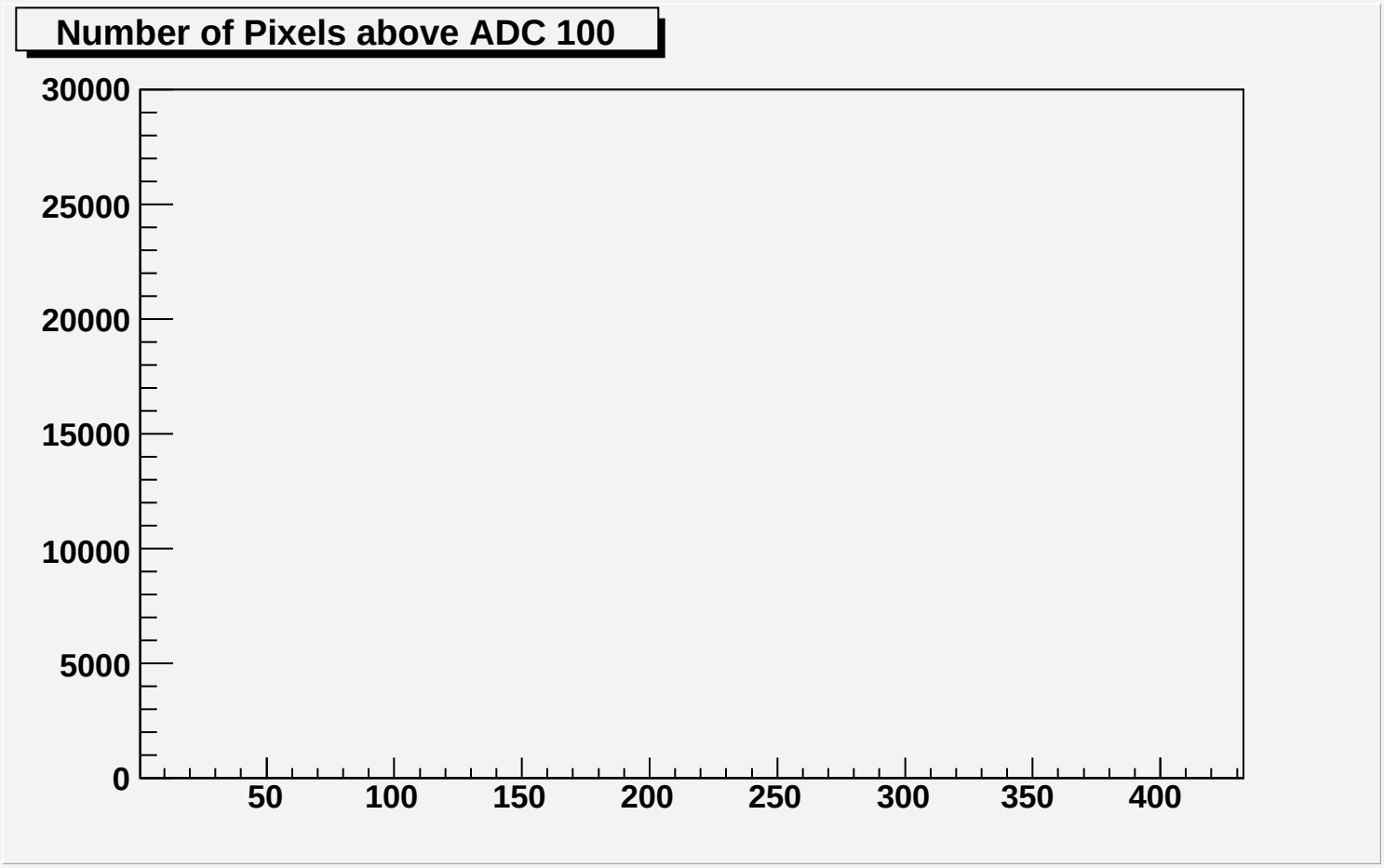

SVT Receiver21 Occupancy (in %)
h293_svt_East_OccRec21
Entries 0
Mean 0
RMS 0

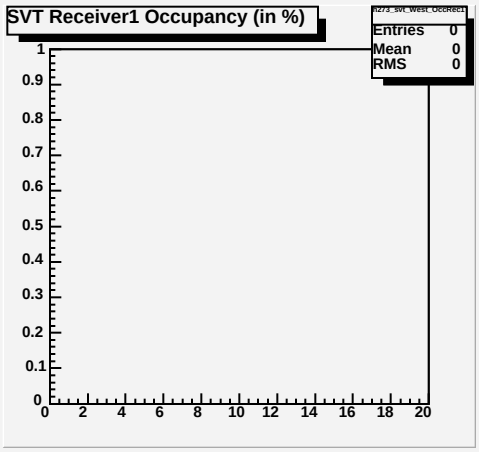

SVT Receiver22 Occupancy (in %)
h294_svt_East_OccRec22
Entries 0
Mean 0
RMS 0

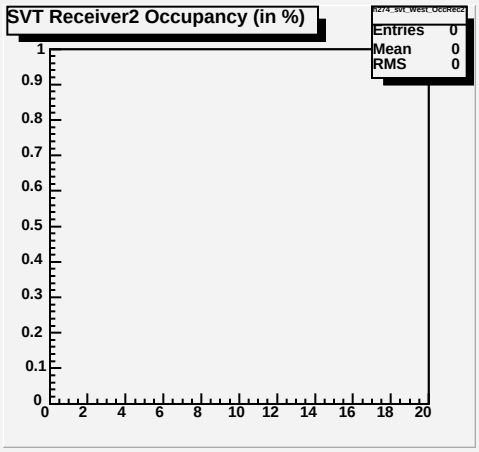

SVT Receiver23 Occupancy (in %)
h295_svt_East_OccRec23
Entries 0
Mean 0
RMS 0

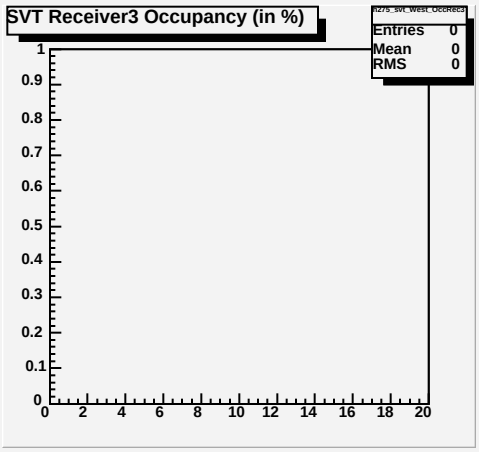

SVT Receiver24 Occupancy (in %)
h296_svt_East_OccRec24
Entries 0
Mean 0
RMS 0

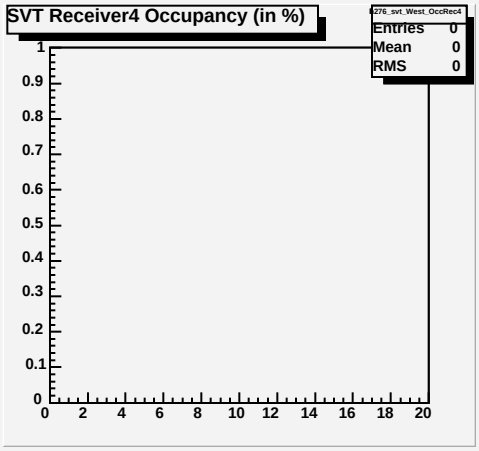

Number of Pixels above Pedestal
30000
25000
20000
15000
10000
5000
0
50
100
150
200
250
300
350
400

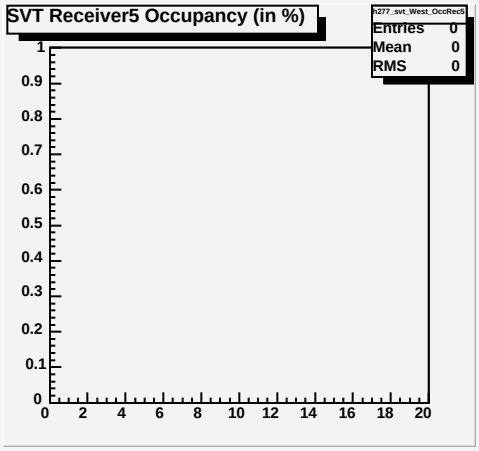

Number of Pixels above ADC 100
30000
25000
20000
15000
10000
5000
0
50
100
150
200
250
300
350
400

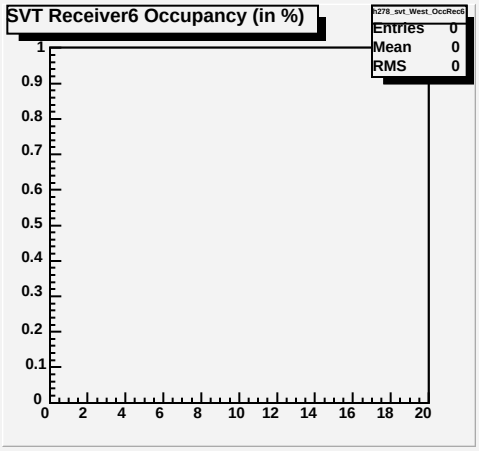

SVT Receiver1 Occupancy (in %)
h273_svt_West_OccRec1
Entries 0
Mean 0
RMS 0

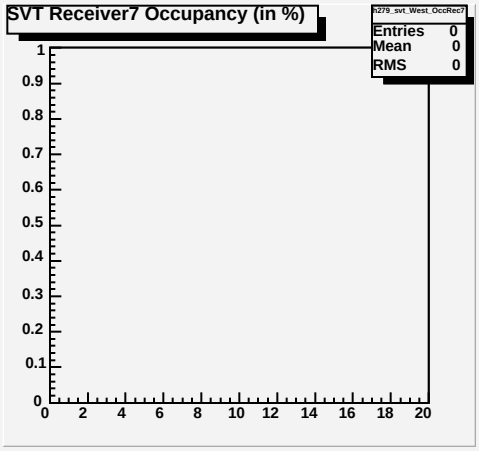

SVT Receiver2 Occupancy (in %)
h274_svt_West_OccRec2
Entries 0
Mean 0
RMS 0

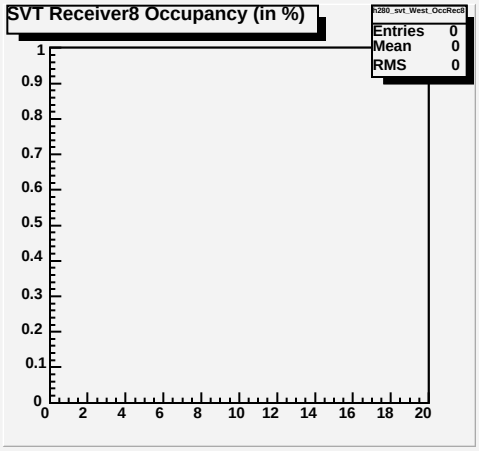

SVT Receiver3 Occupancy (in %)
h275_svt_West_OccRec3
Entries 0
Mean 0
RMS 0

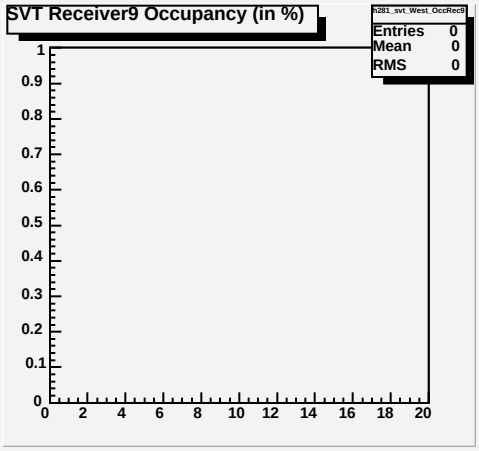

SVT Receiver4 Occupancy (in %)
h276_svt_West_OccRec4
Entries 0
Mean 0
RMS 0

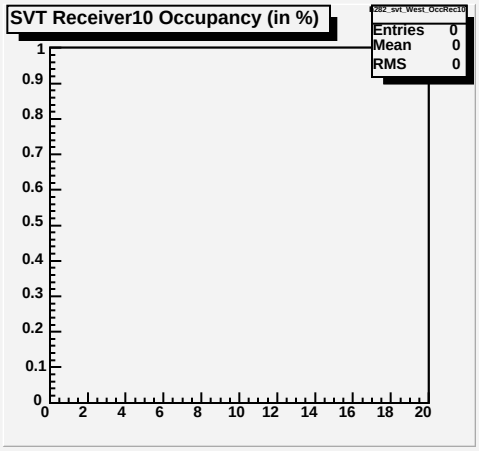

SVT Receiver5 Occupancy (in %)
h277_svt_West_OccRec5
Entries 0
Mean 0
RMS 0

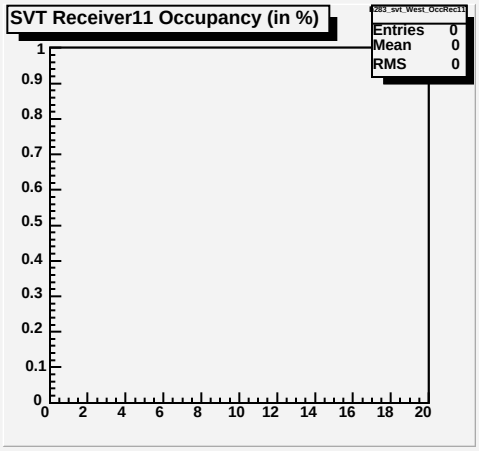

SVT Receiver6 Occupancy (in %)
h278_svt_West_OccRec6
Entries 0
Mean 0
RMS 0

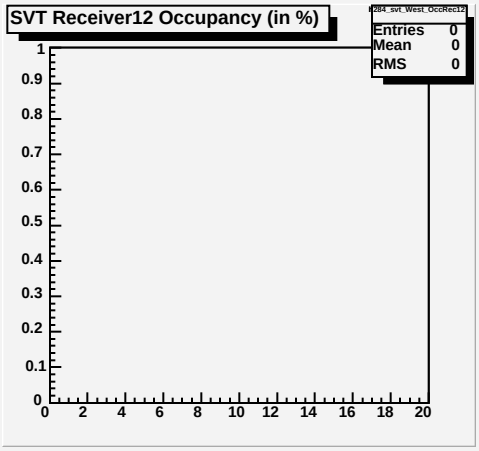

SVT Receiver7 Occupancy (in %)
h279_svt_West_OccRec7
Entries 0
Mean 0
RMS 0

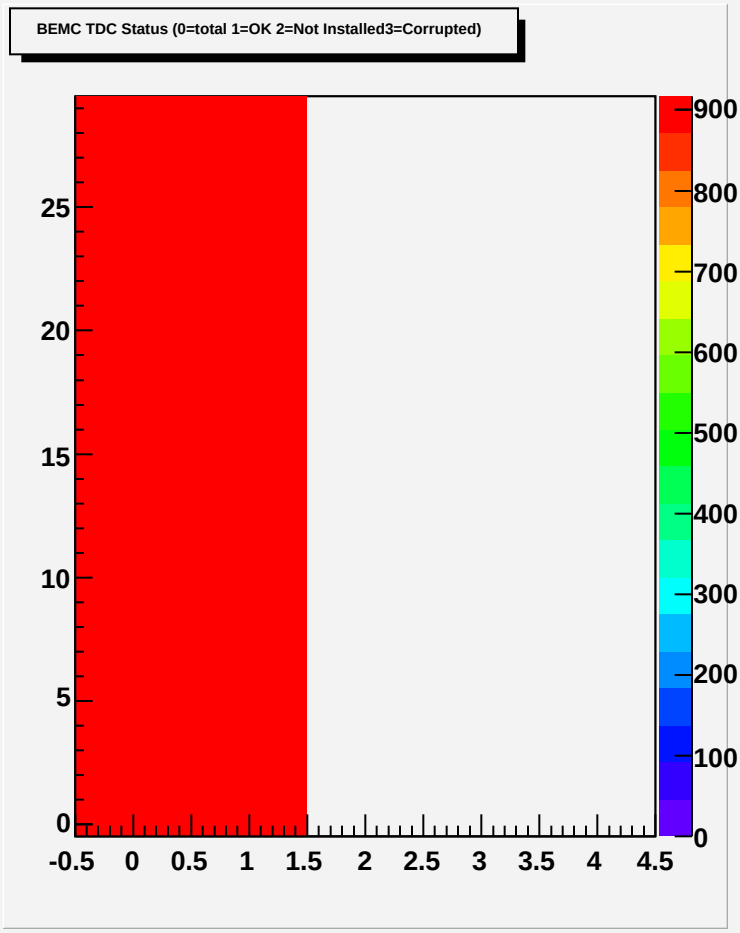

SVT Receiver8 Occupancy (in %)
h280_svt_West_OccRec8
Entries 0
Mean 0
RMS 0

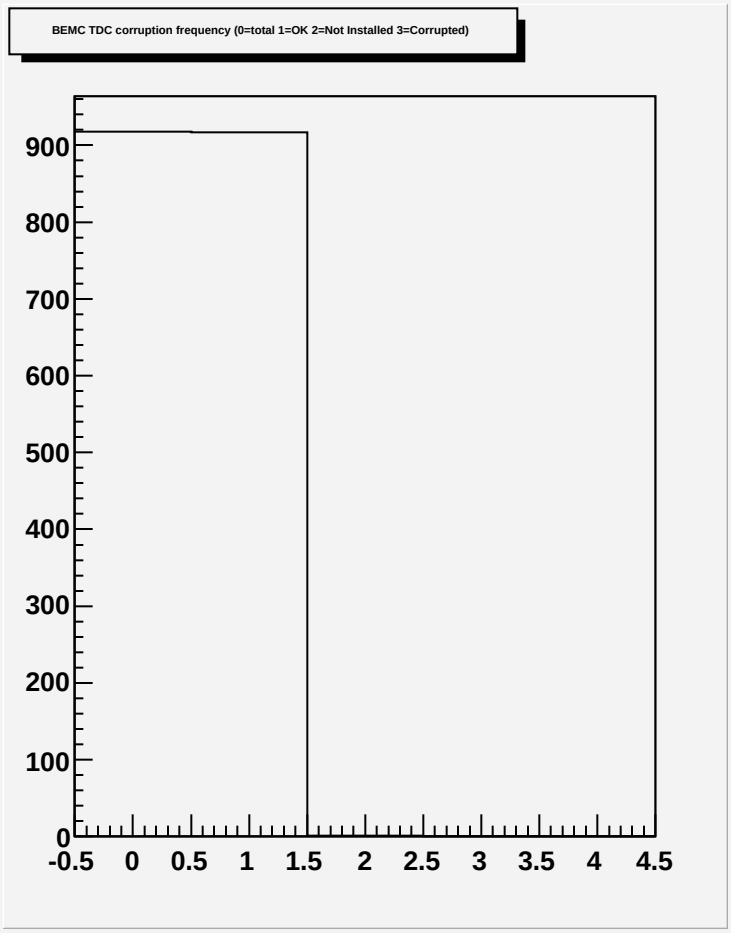

SVT Receiver9 Occupancy (in %)
h281_svt_West_OccRec9
Entries 0
Mean 0
RMS 0

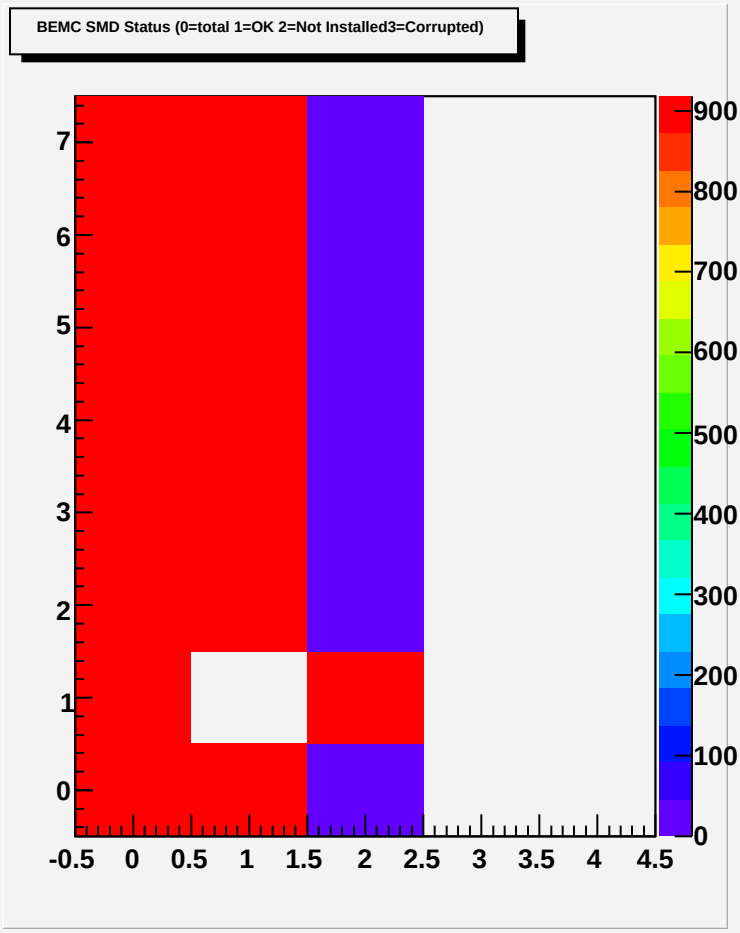

SVT Receiver10 Occupancy (in %)
h282_svt_West_OccRec10
Entries 0
Mean 0
RMS 0

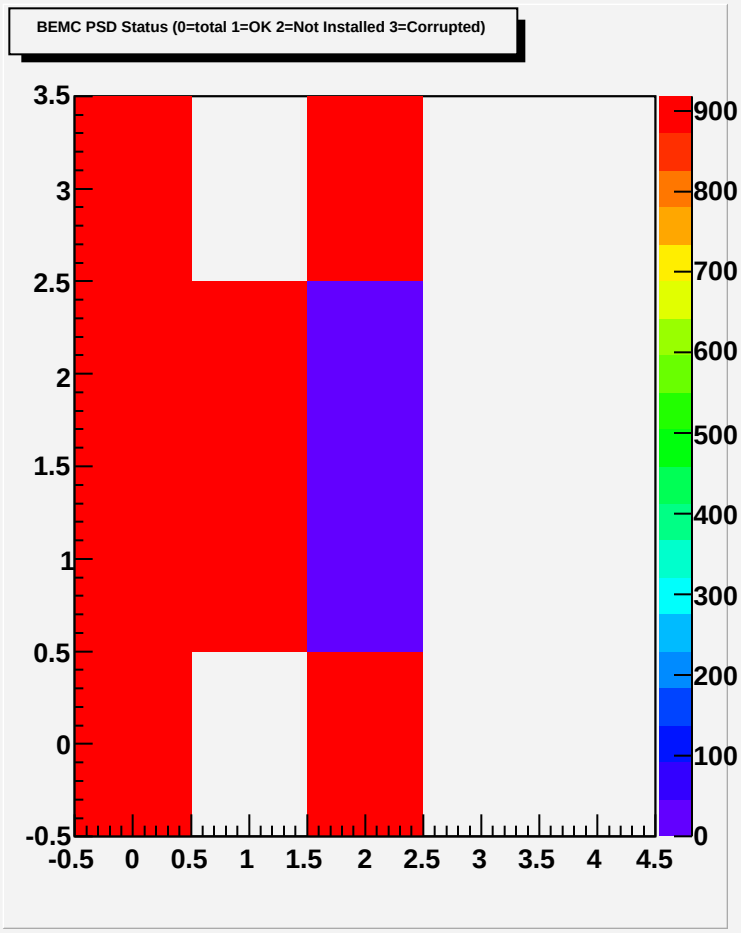

SVT Receiver11 Occupancy (in %)
h283_svt_West_OccRec11
Entries 0
Mean 0
RMS 0

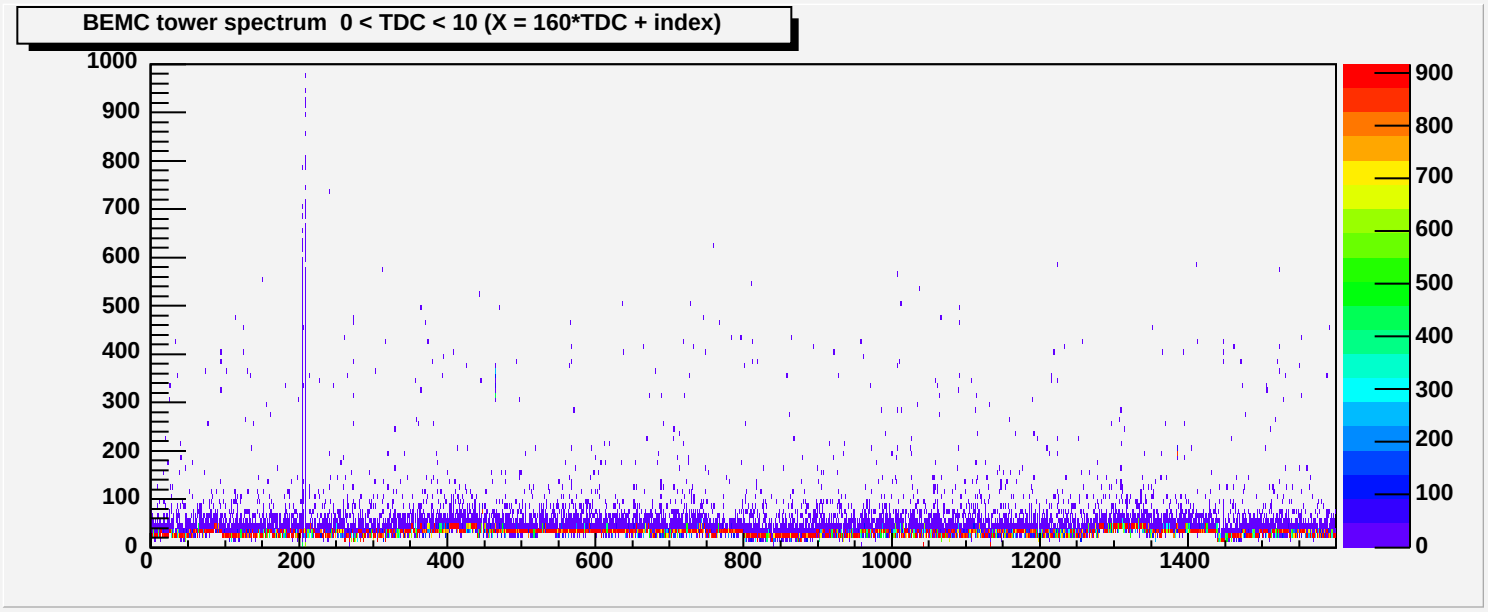

SVT Receiver12 Occupancy (in %)
h284_svt_West_OccRec12
Entries 0
Mean 0
RMS 0

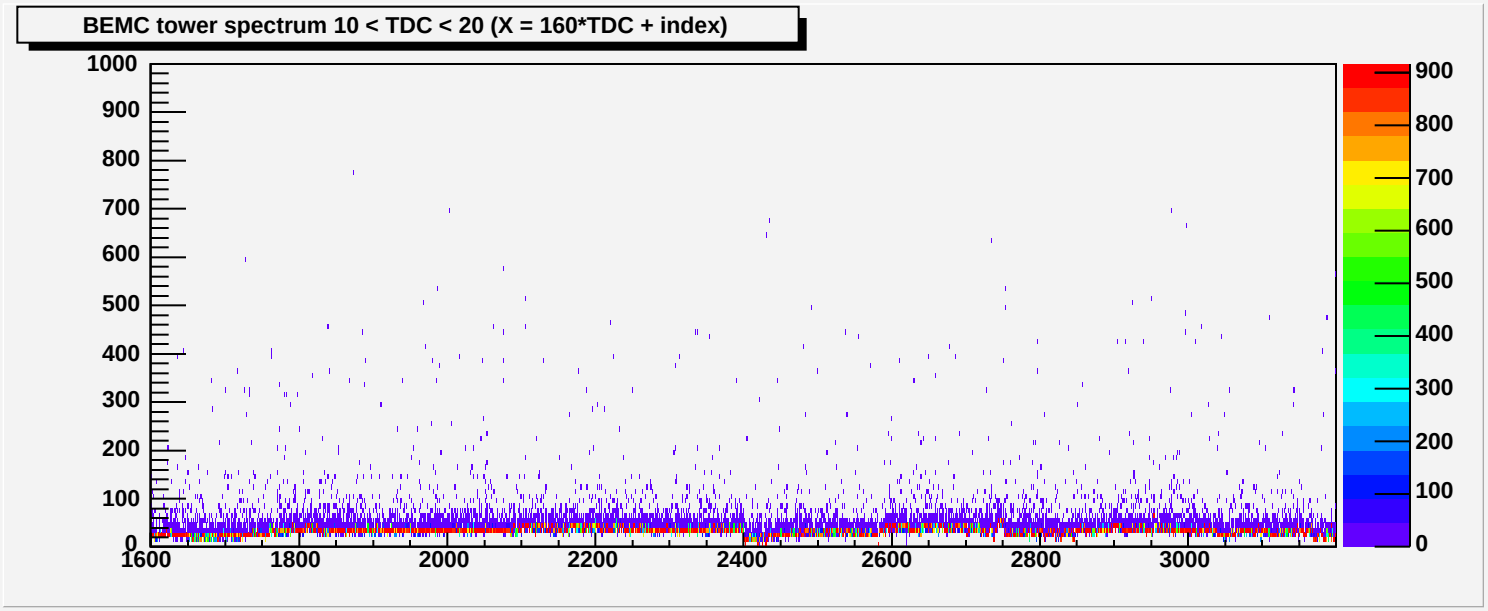

BEMC TDC Status (0=total 1=OK 2=Not Installed3=Corrupted)

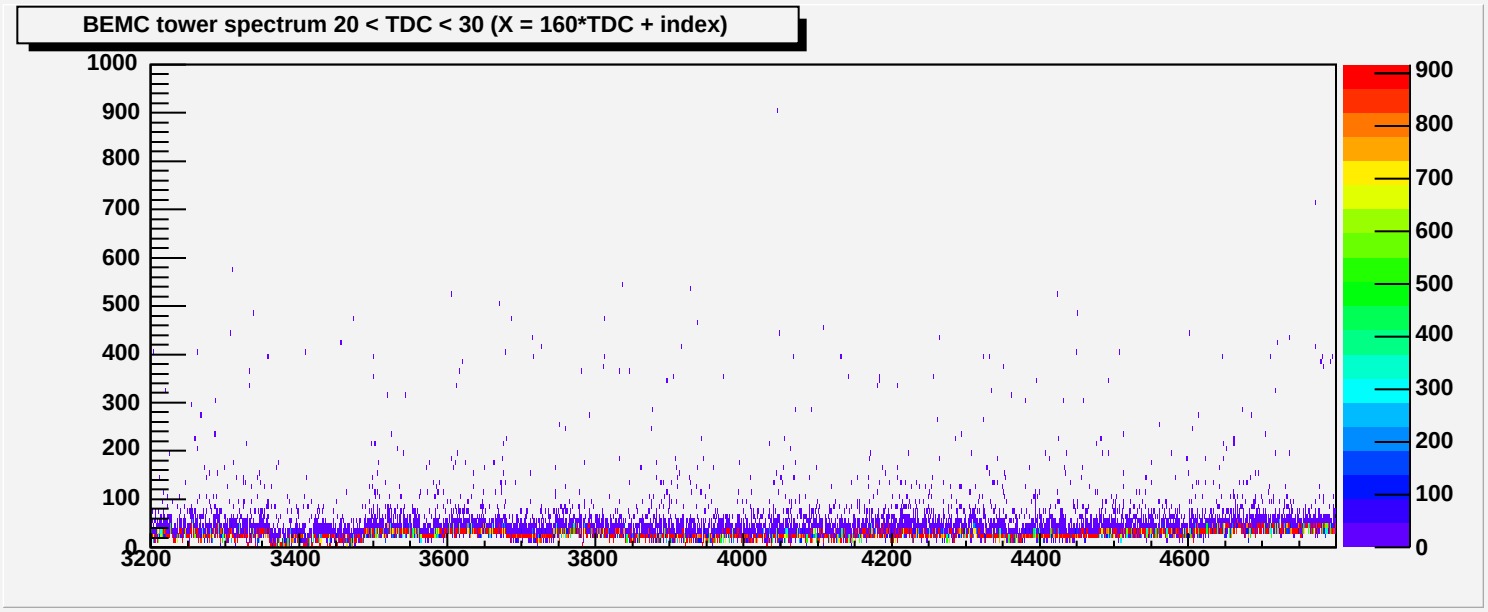

BEMC TDC corruption frequency (0=total 1=OK 2=Not Installed 3=Corrupted)

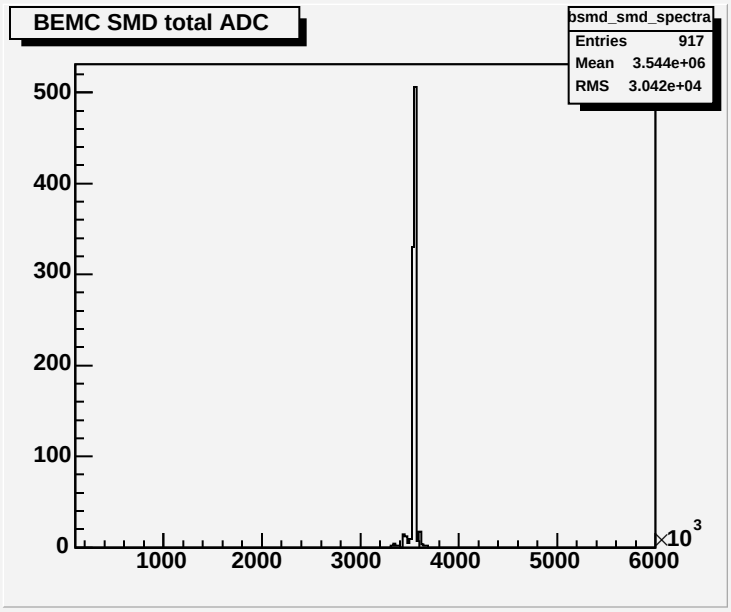

BEMC SMD Status (0=total 1=OK 2=Not Installed3=Corrupted)

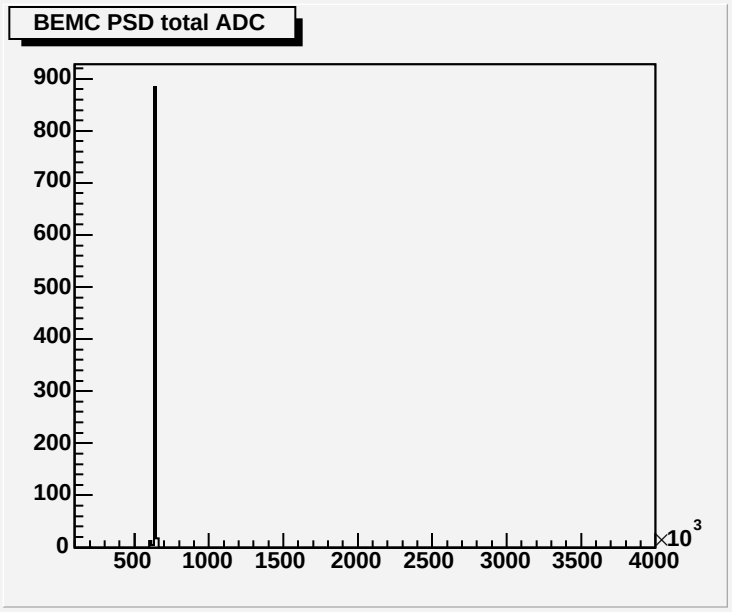

BEMC PSD Status (0=total 1=OK 2=Not Installed 3=Corrupted)

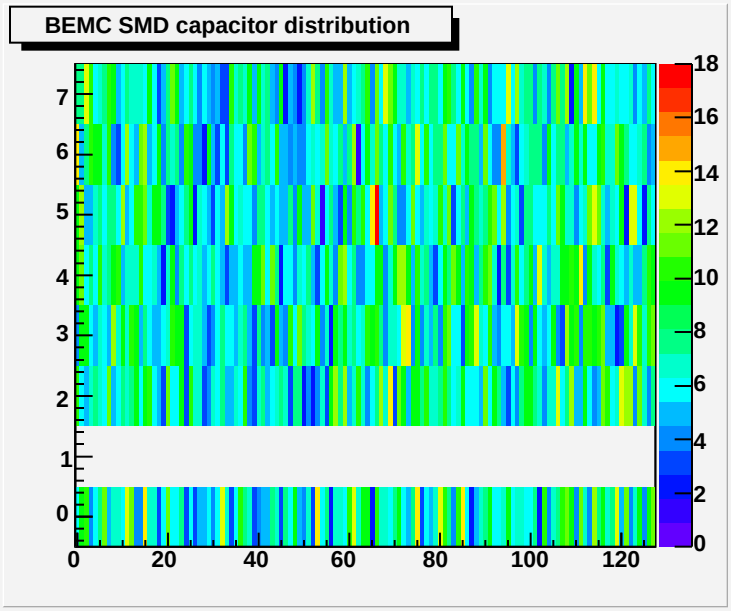

BEMC tower spectrum 0 < TDC < 10 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
0
200
400
600
800
1000
1200
1400
900
800
700
600
500
400
300
200
100
0

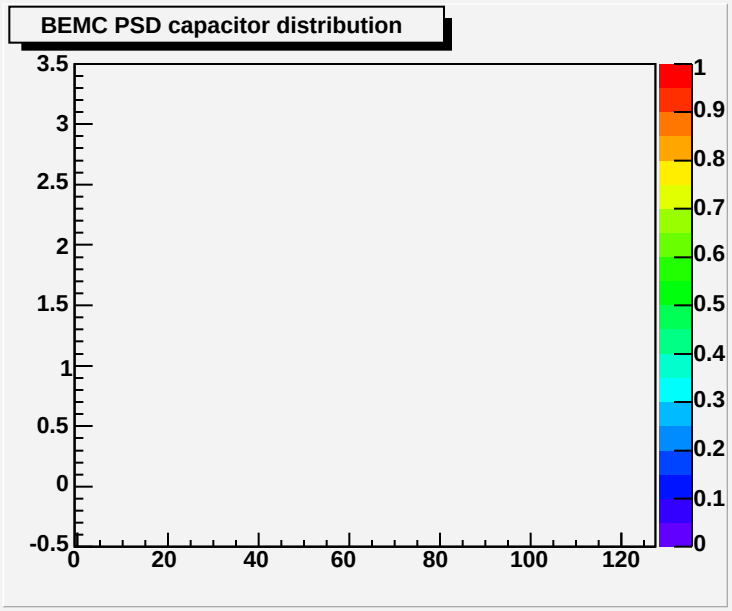

BEMC tower spectrum 10 < TDC < 20 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
1600
1800
2000
2200
2400
2600
2800
3000
900
800
700
600
500
400
300
200
100
0

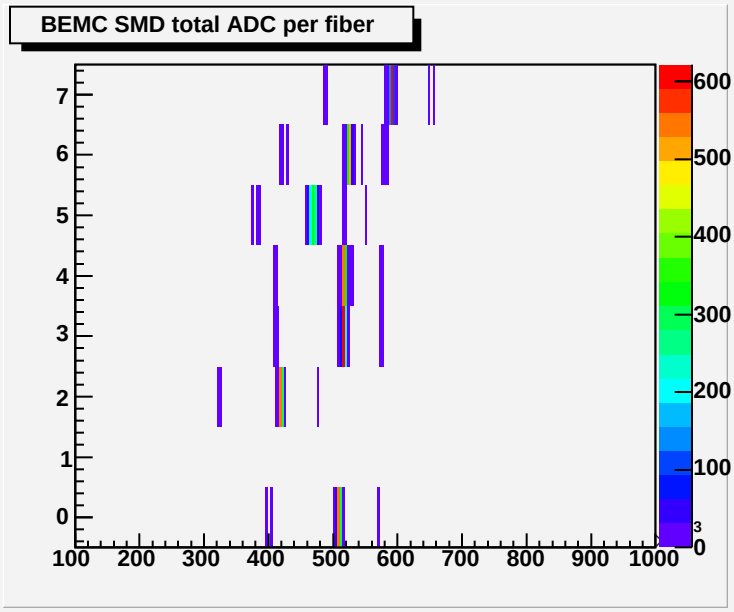

BEMC tower spectrum 20 < TDC < 30 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
3200
3400
3600
3800
4000
4200
4400
4600
900
800
700
600
500
400
300
200
100
0

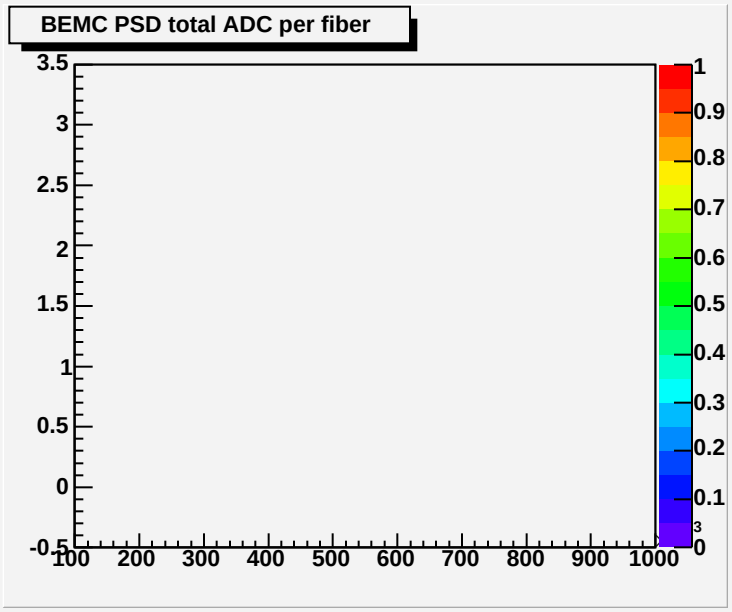

BEMC SMD total ADC
bsmd_smd_spectra
Entries 917
Mean 3.544e+06
RMS 3.042e+04
×10^3

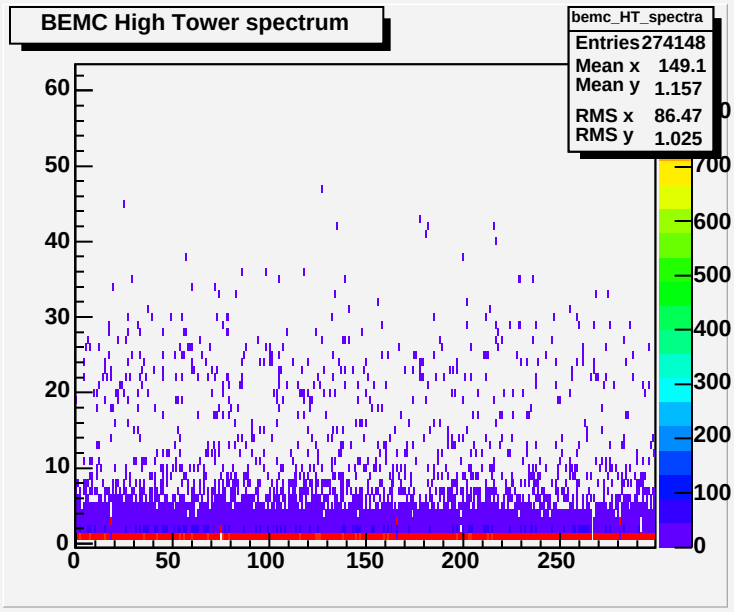

BEMC PSD total ADC
×10^3

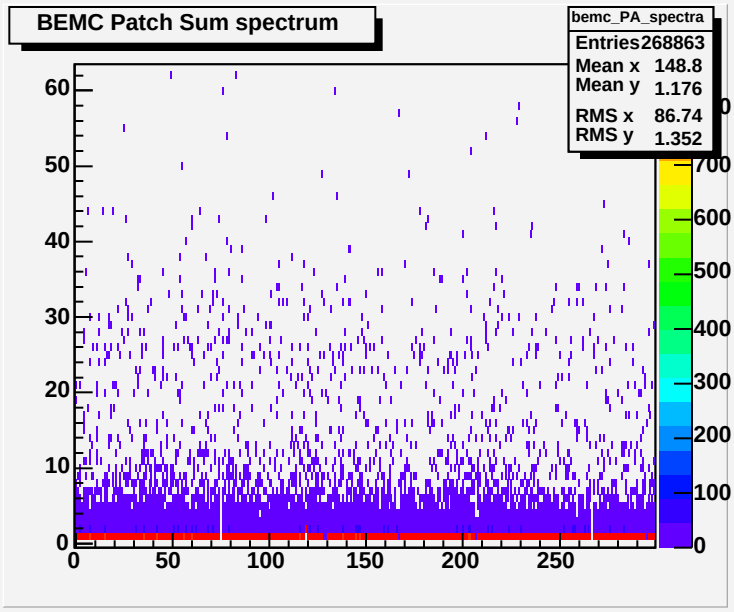

BEMC SMD capacitor distribution

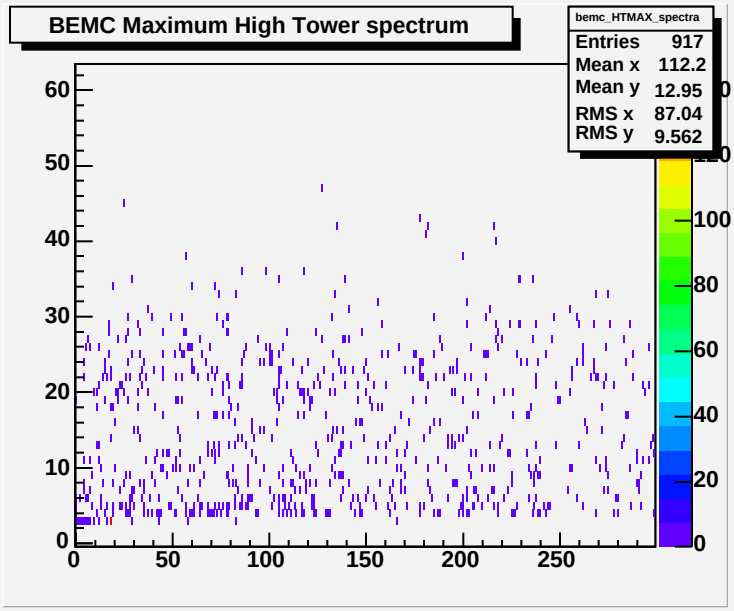

BEMC PSD capacitor distribution

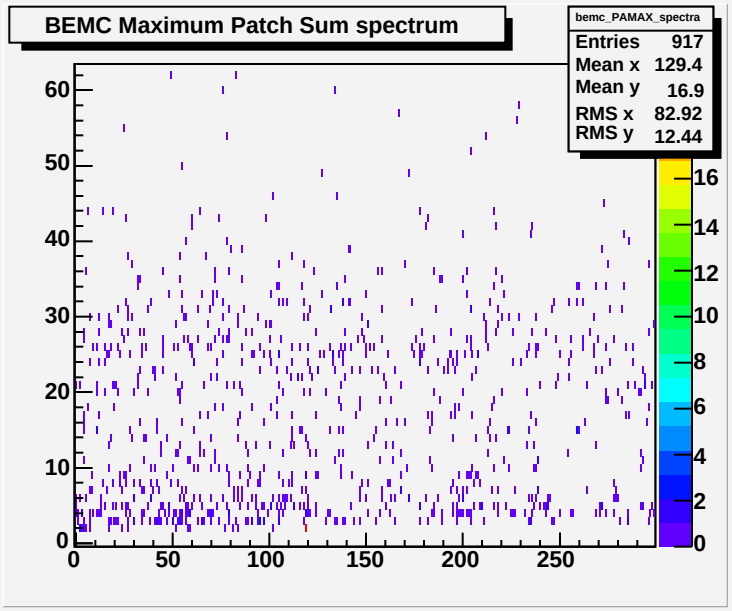

BEMC SMD total ADC per fiber

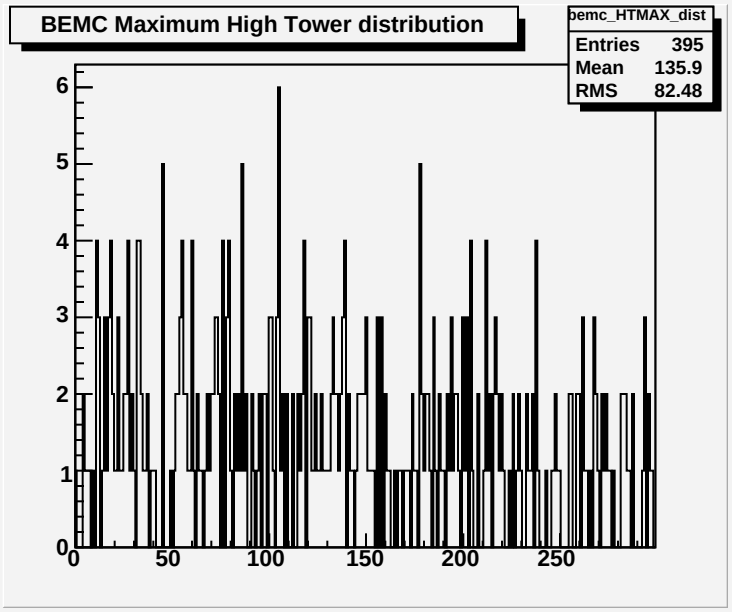

BEMC PSD total ADC per fiber

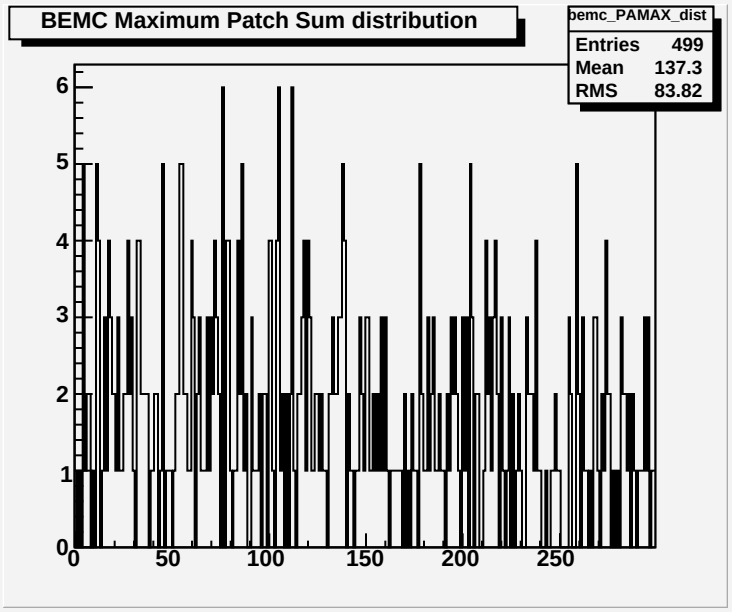

BEMC High Tower spectrum
bemc_HT_spectra
Entries 274148
Mean x 149.1
Mean y 1.157
RMS x 86.47
RMS y 1.025

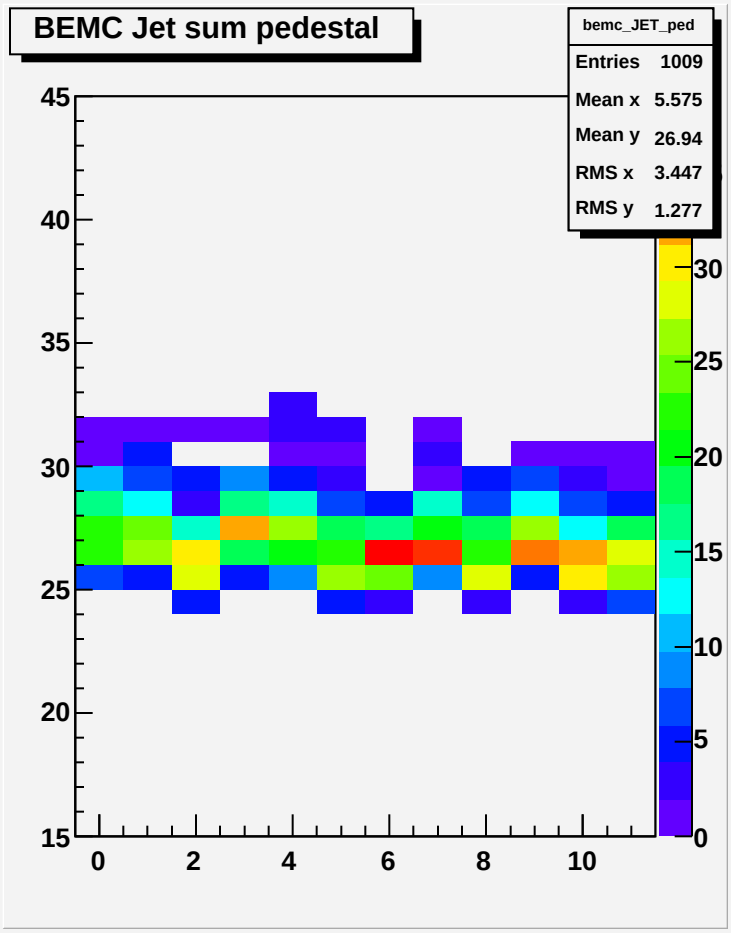

BEMC Patch Sum spectrum
bemc_PA_spectra
Entries 268863
Mean x 148.8
Mean y 1.176
RMS x 86.74
RMS y 1.352

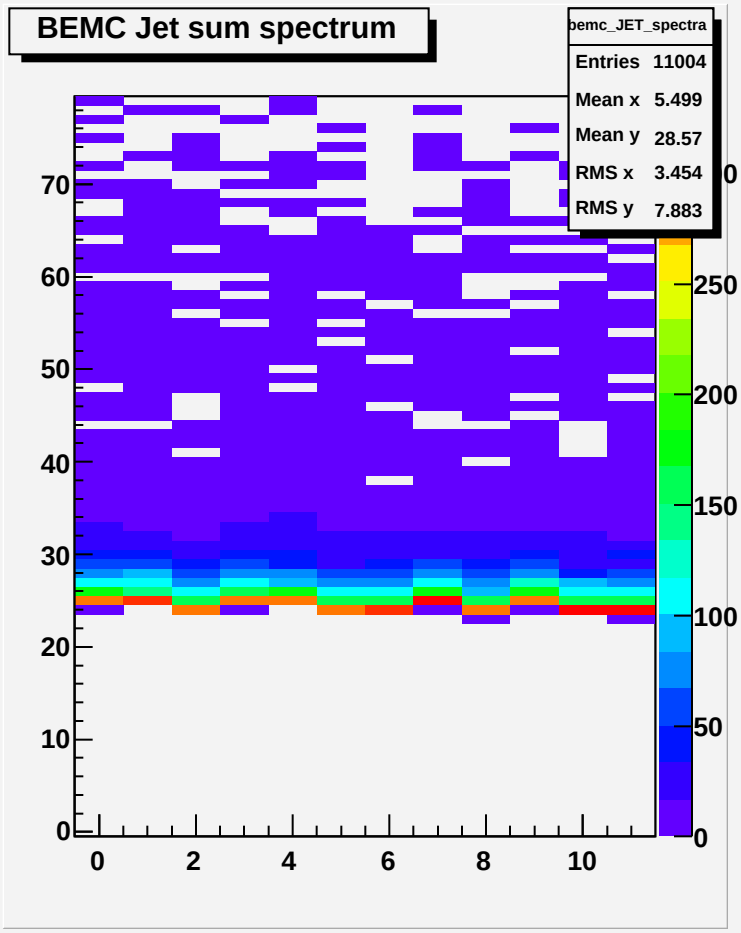

BEMC Maximum High Tower spectrum
bemc_HTMAX_spectra
Entries 917
Mean x 112.2
Mean y 12.95
RMS x 87.04
RMS y 9.562

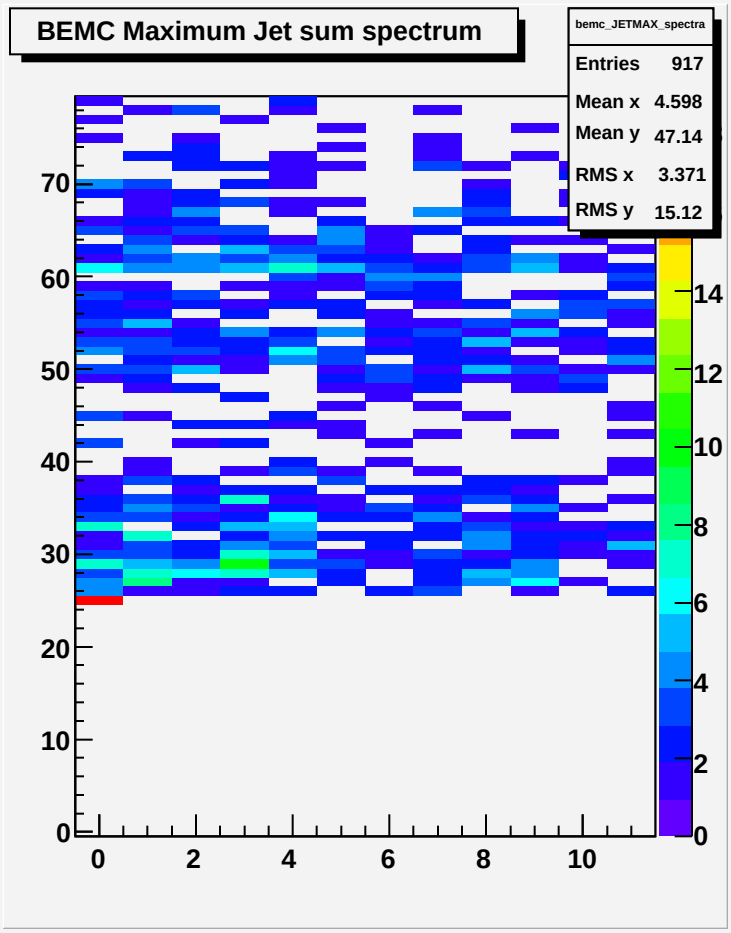

BEMC Maximum Patch Sum spectrum
bemc_PAMAX_spectra
Entries 917
Mean x 129.4
Mean y 16.9
RMS x 82.92
RMS y 12.44

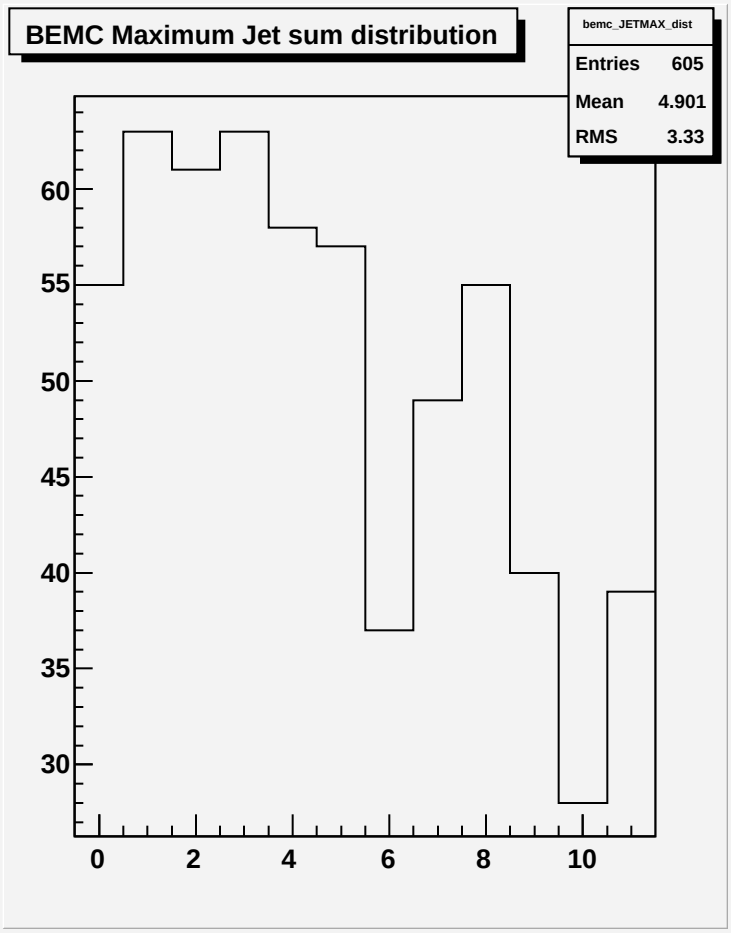

BEMC Maximum High Tower distribution
bemc_HTMAX_dist
Entries 395
Mean 135.9
RMS 82.48

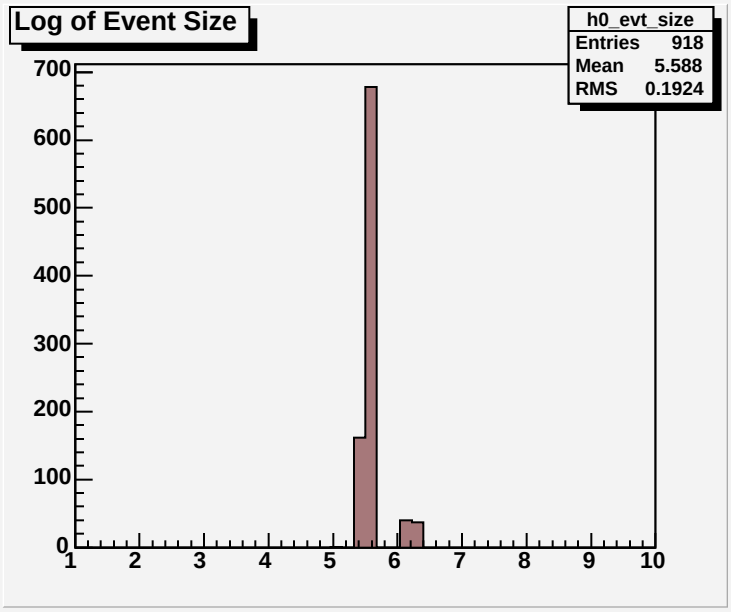

BEMC Maximum Patch Sum distribution
bemc_PAMAX_dist
Entries 499
Mean 137.3
RMS 83.82

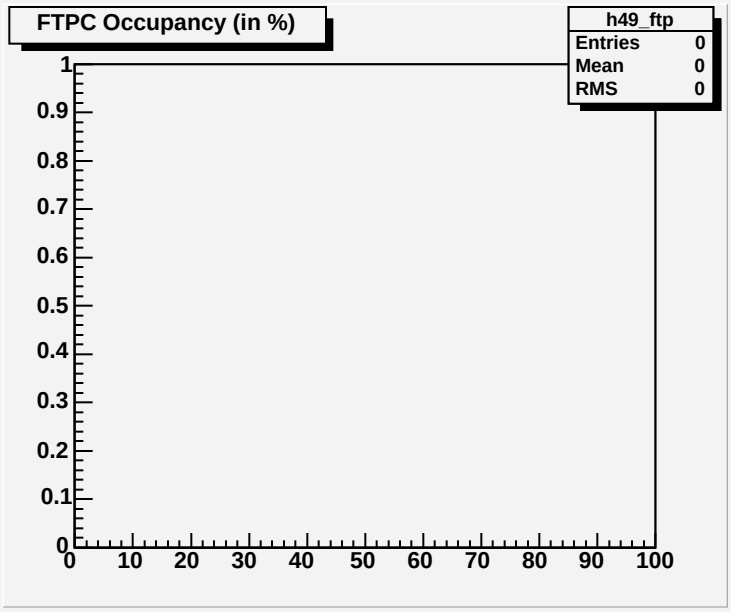

BEMC Jet sum pedestal
bemc_JET_ped
Entries 1009
Mean x 5.575
Mean y 26.94
RMS x 3.447
RMS y 1.277

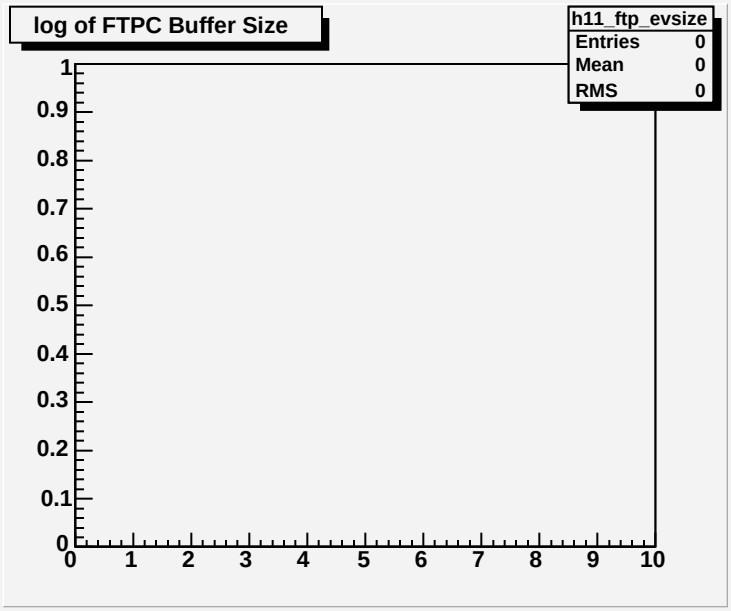

BEMC Jet sum spectrum
bemc_JET_spectra
Entries 11004
Mean x 5.499
Mean y 28.57
RMS x 3.454
RMS y 7.883

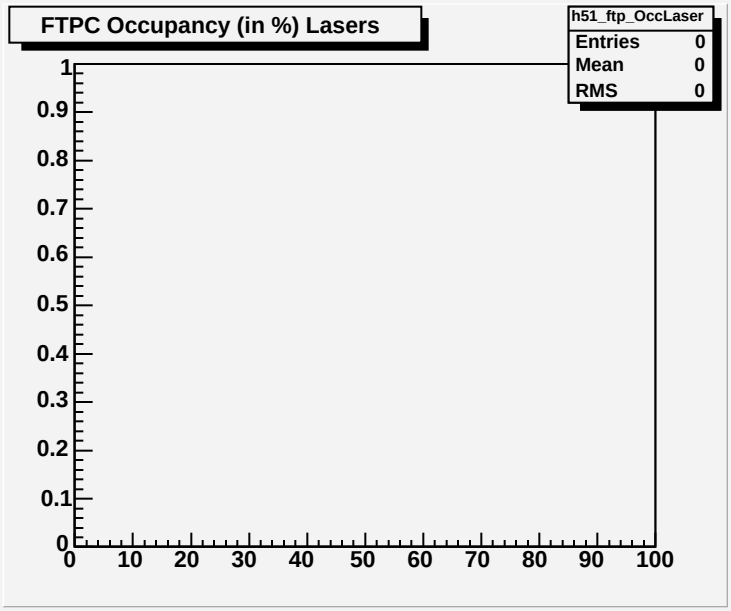

BEMC Maximum Jet sum spectrum
bemc_JETMAX_spectra
Entries 917
Mean x 4.598
Mean y 47.14
RMS x 3.371
RMS y 15.12

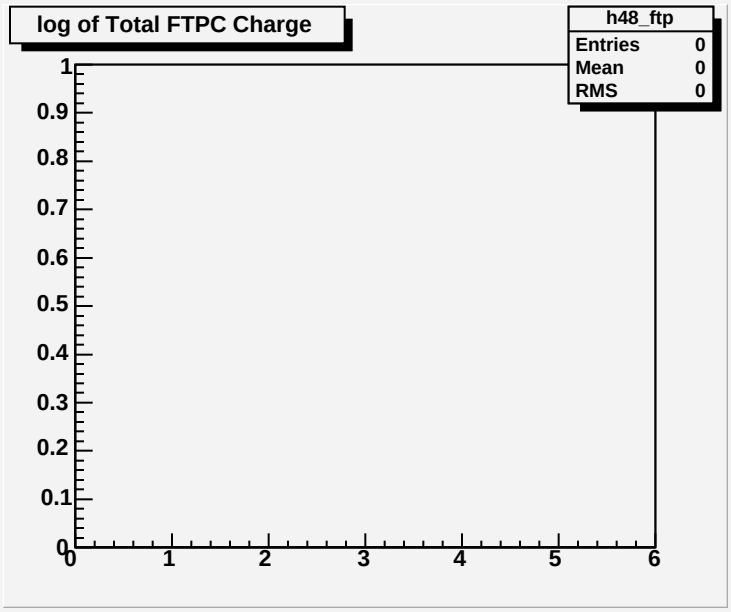

BEMC Maximum Jet sum distribution
bemc_JETMAX_dist
Entries 605
Mean 4.901
RMS 3.33

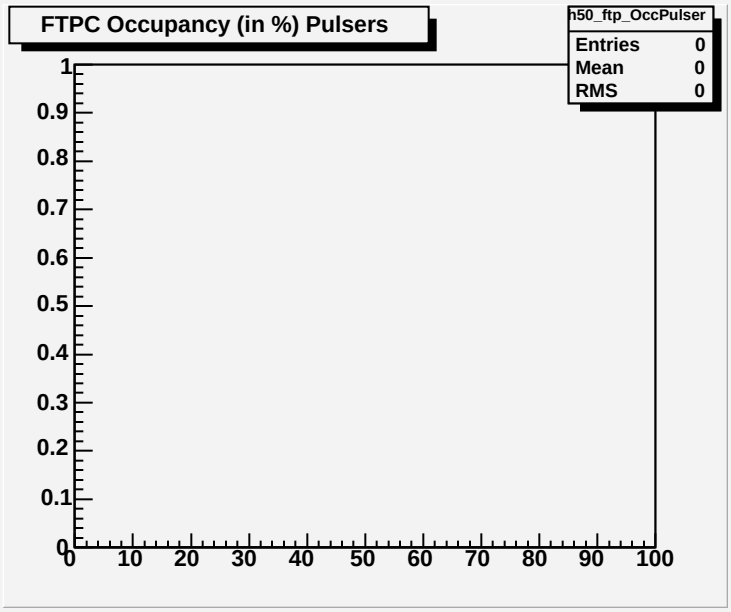

Log of Event Size
h0_evt_size
Entries 918
Mean 5.588
RMS 0.1924

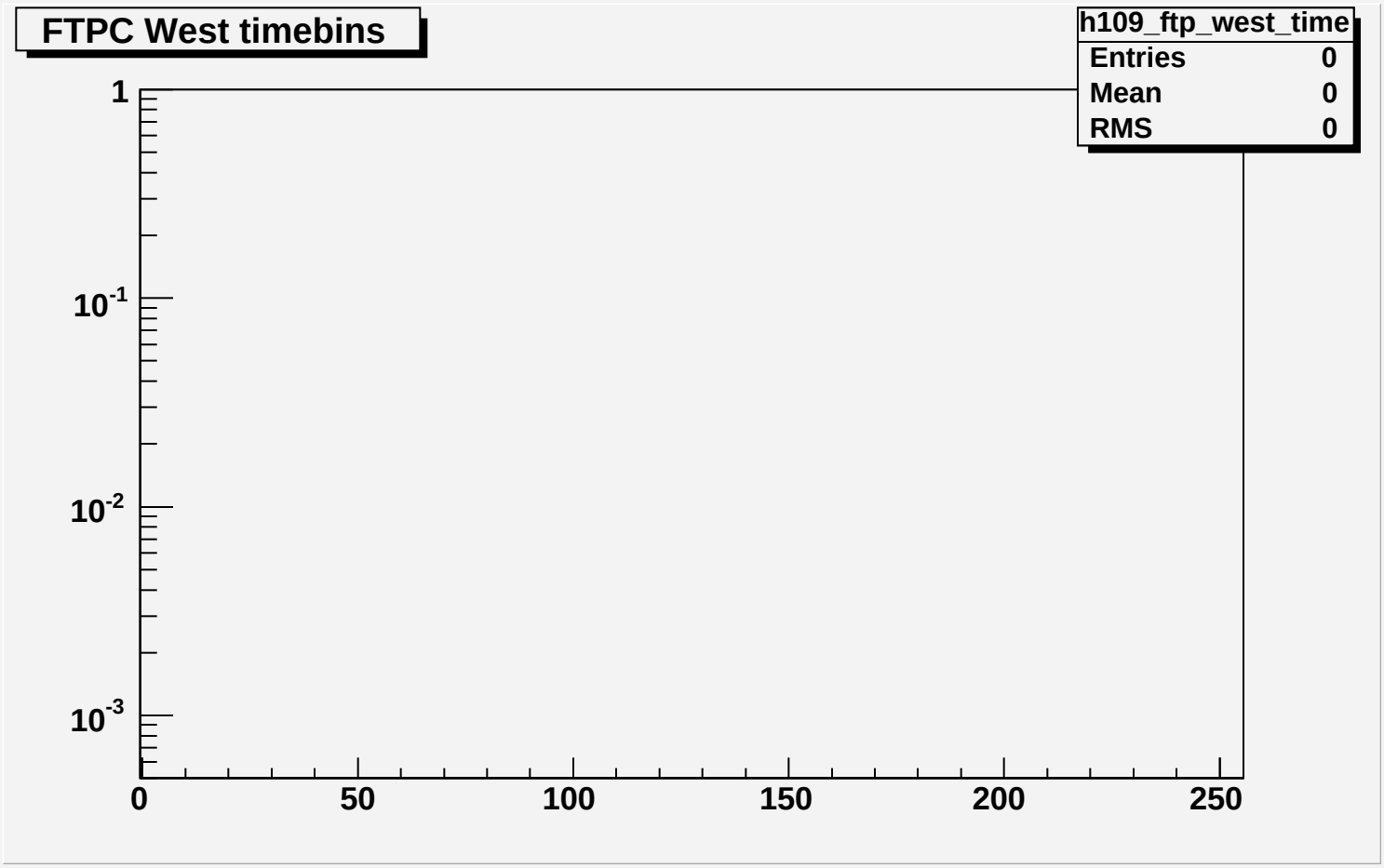

FTPC Occupancy (in %)
h49_ftp
Entries 0
Mean 0
RMS 0

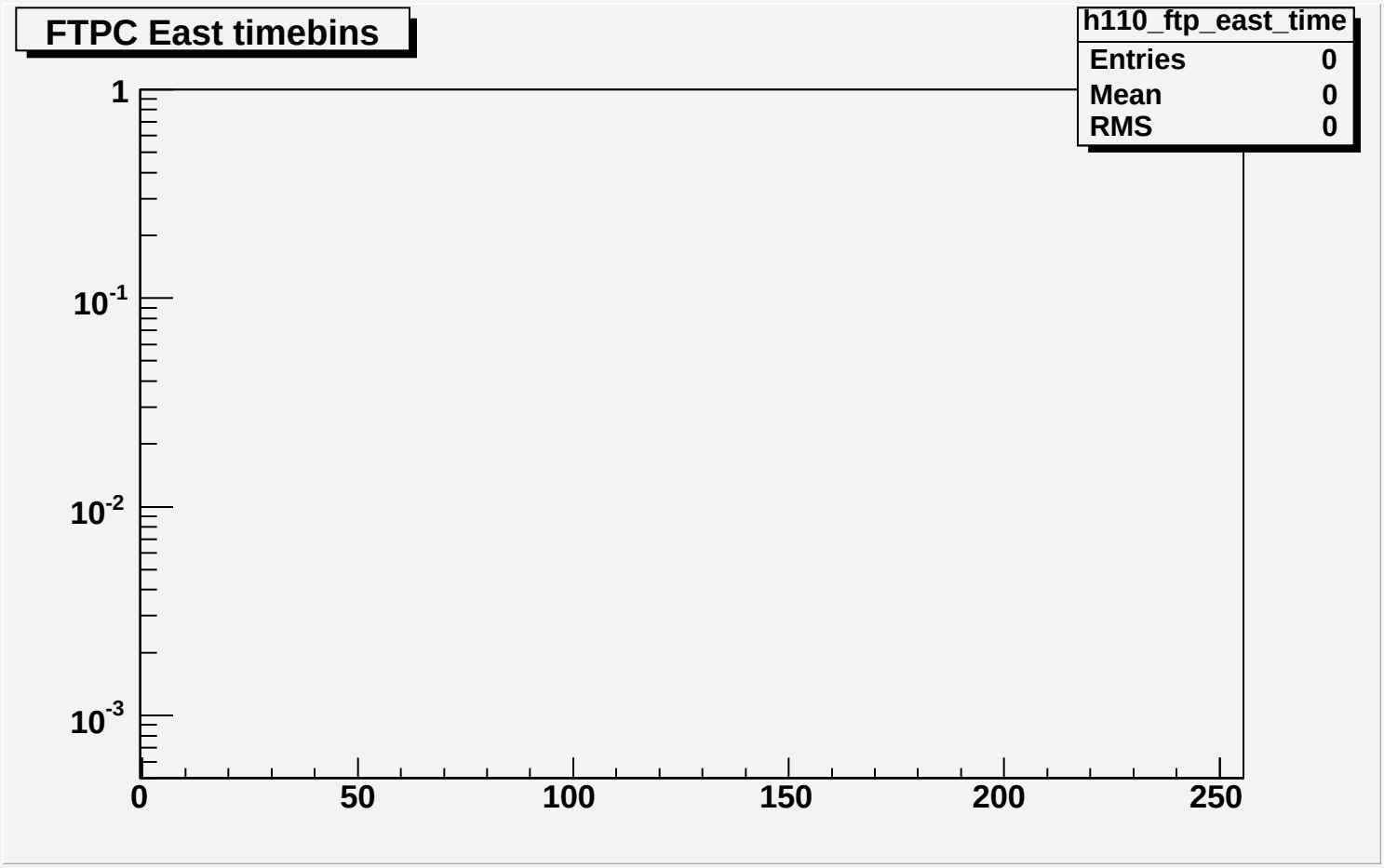

log of FTPC Buffer Size
h11_ftp_evsize
Entries 0
Mean 0
RMS 0


FTPC Occupancy (in %) Lasers
h51_ftp_OccLaser
Entries 0
Mean 0
RMS 0

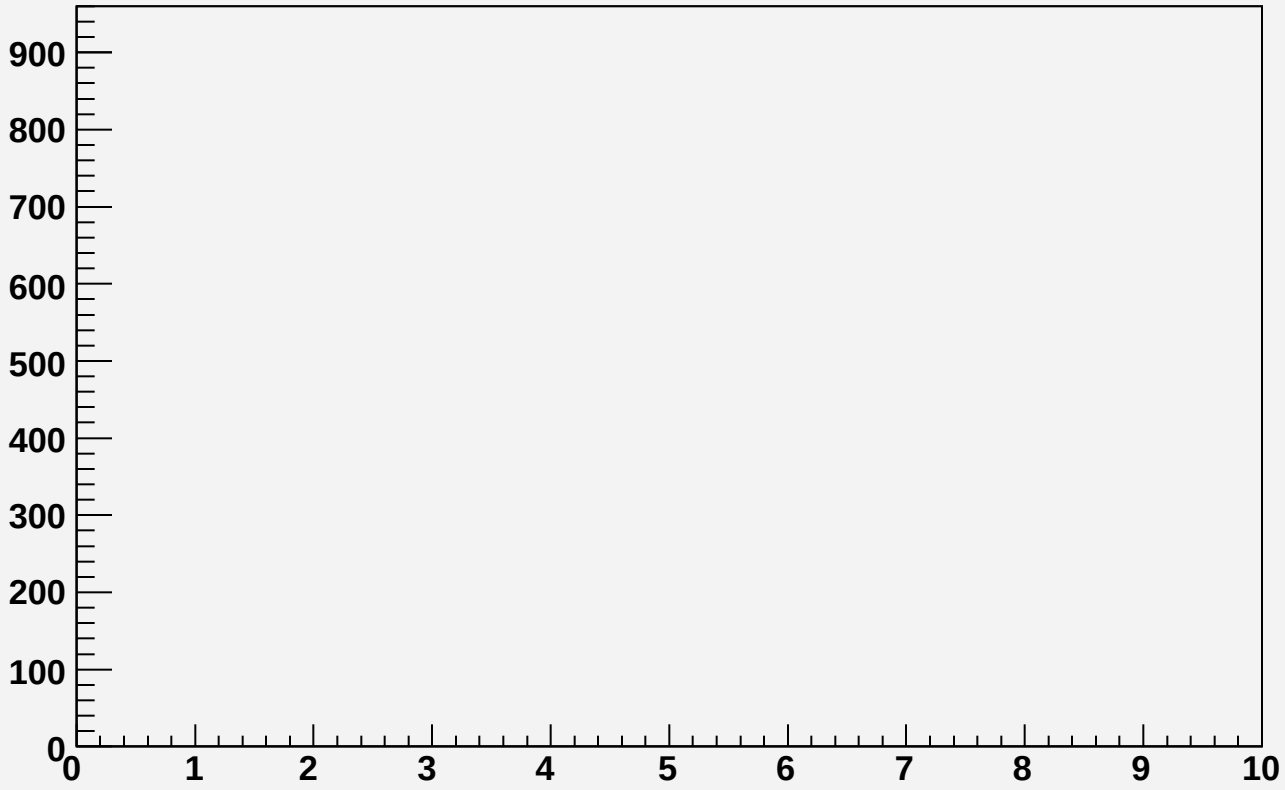

log of Total FTPC Charge
h48_ftp
Entries 0
Mean 0
RMS 0


FTPC Occupancy (in %) Pulsers
h50_ftp_OccPulser
Entries 0
Mean 0
RMS 0

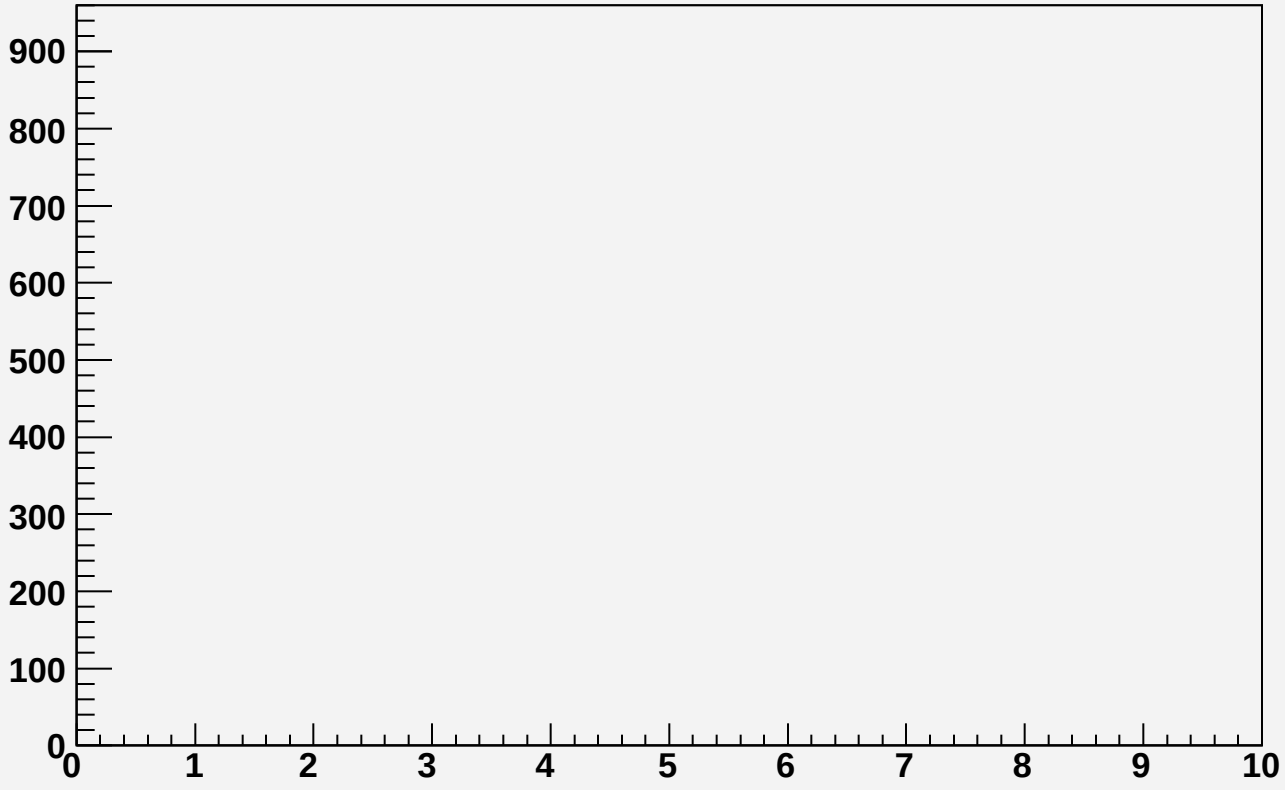

FTPC West timebins
h109_ftp_west_time
Entries 0
Mean 0
RMS 0
1
10-1
10-2
10-3
0
50
100
150
200
250

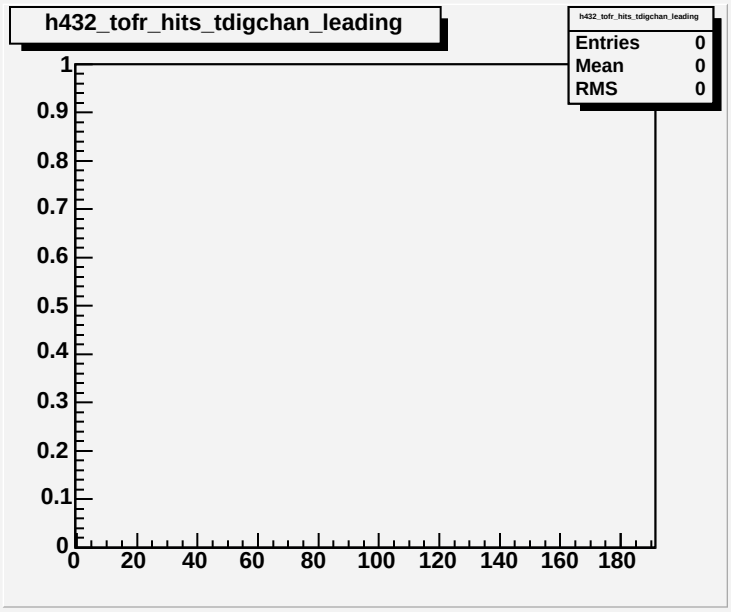

FTPC East timebins
h110_ftp_east_time
Entries 0
Mean 0
RMS 0
1
10-1
10-2
10-3
0
50
100
150
200
250

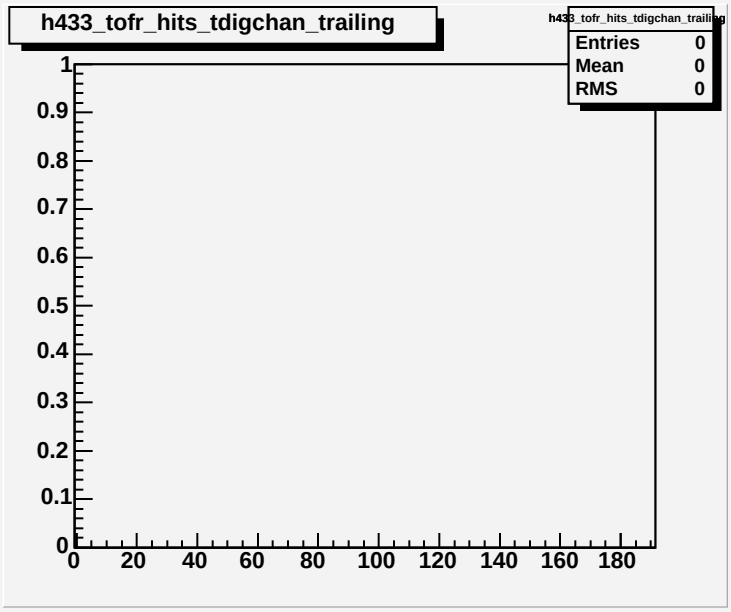
FTPC West pad charge: pad vs row

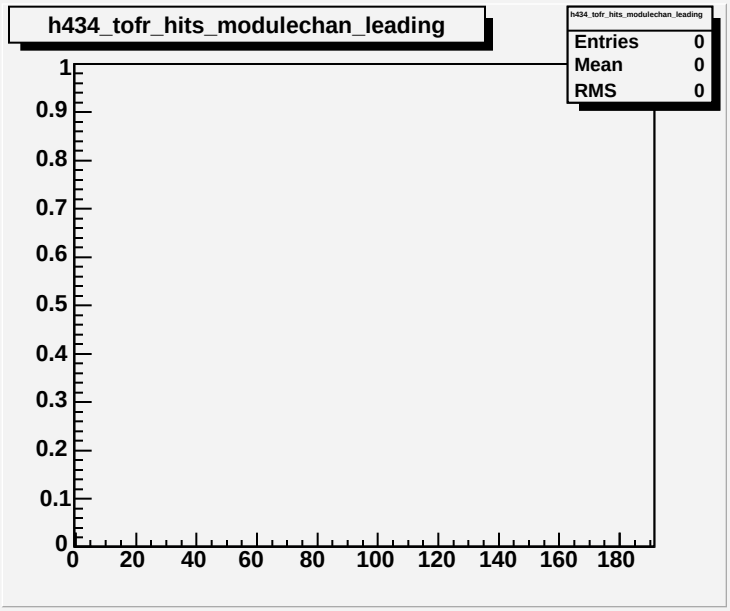


FTPC East pad charge: pad vs row




h432_tofr_hits_tdigchan_leading
h432_tofr_hits_tdigchan_leading
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180


h433_tofr_hits_tdigchan_trailing
h433_tofr_hits_tdigchan_trailing
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180


h434_tofr_hits_modulechan_leading
h434_tofr_hits_modulechan_leading
Entries 0
Mean 0
RMS 0
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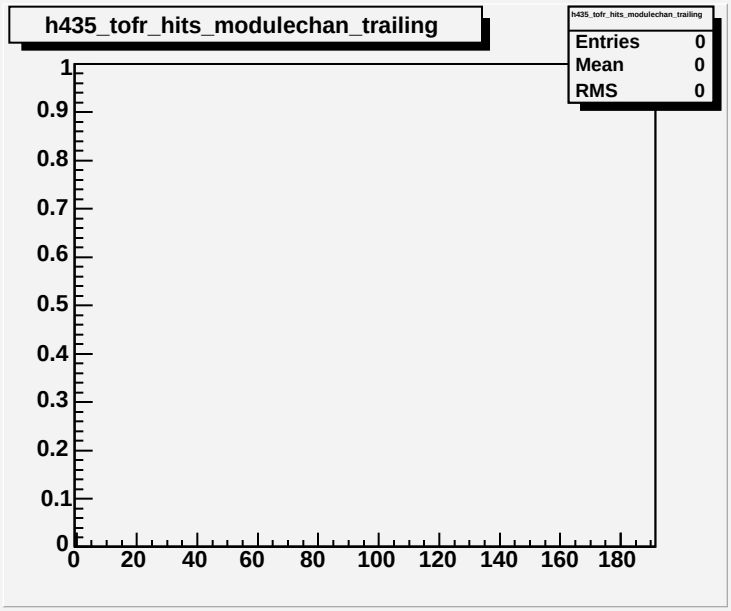
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180


h435_tofr_hits_modulechan_trailing
h435_tofr_hits_modulechan_trailing
Entries 0
Mean 0
RMS 0
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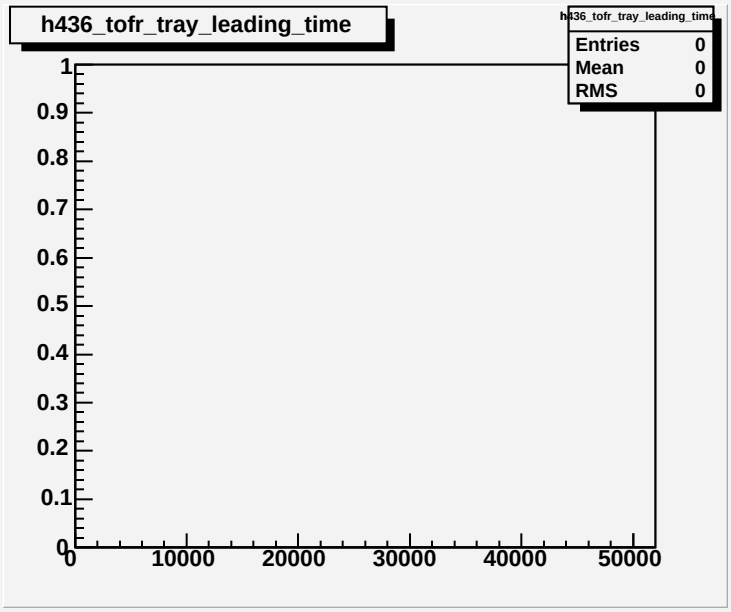
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180


h436_tofr_tray_leading_time
h436_tofr_tray_leading_time
Entries 0
Mean 0
RMS 0
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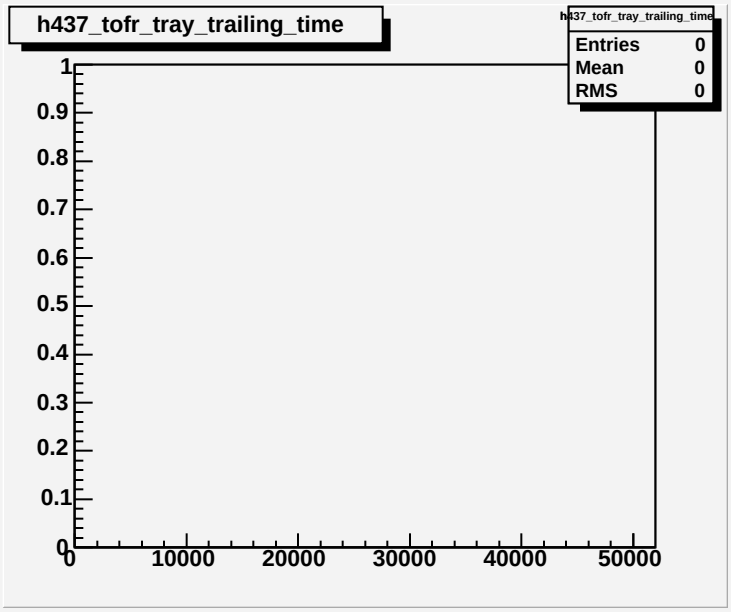
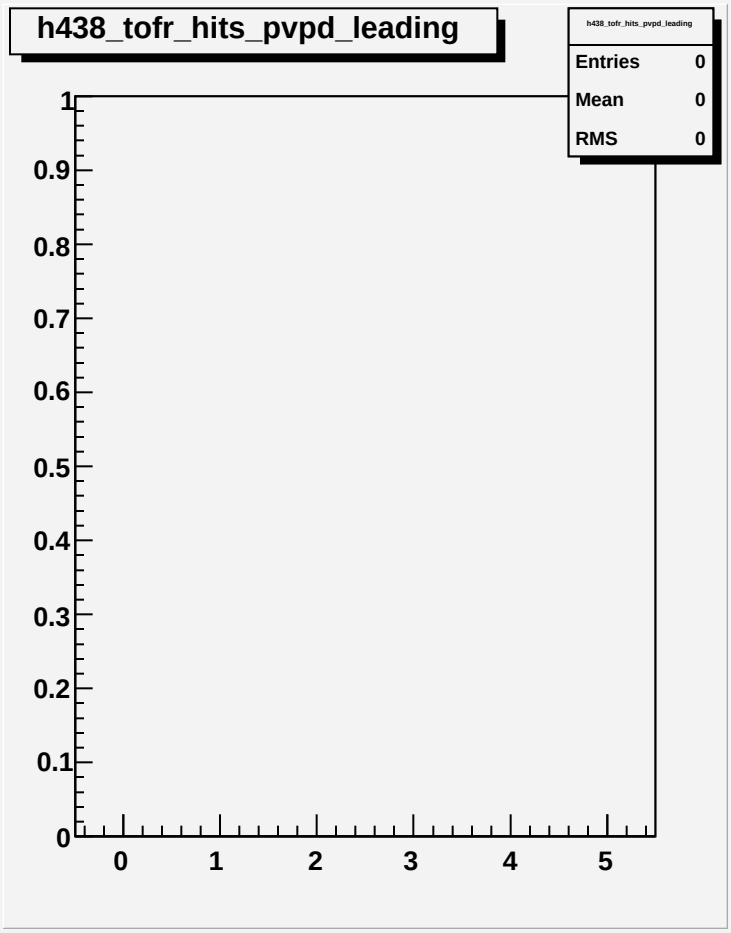
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000


h437_tofr_tray_trailing_time
h437_tofr_tray_trailing_time
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000


h438_tofr_hits_pvpd_leading
h438_tofr_hits_pvpd_leading
Entries 0
Mean 0
RMS 0
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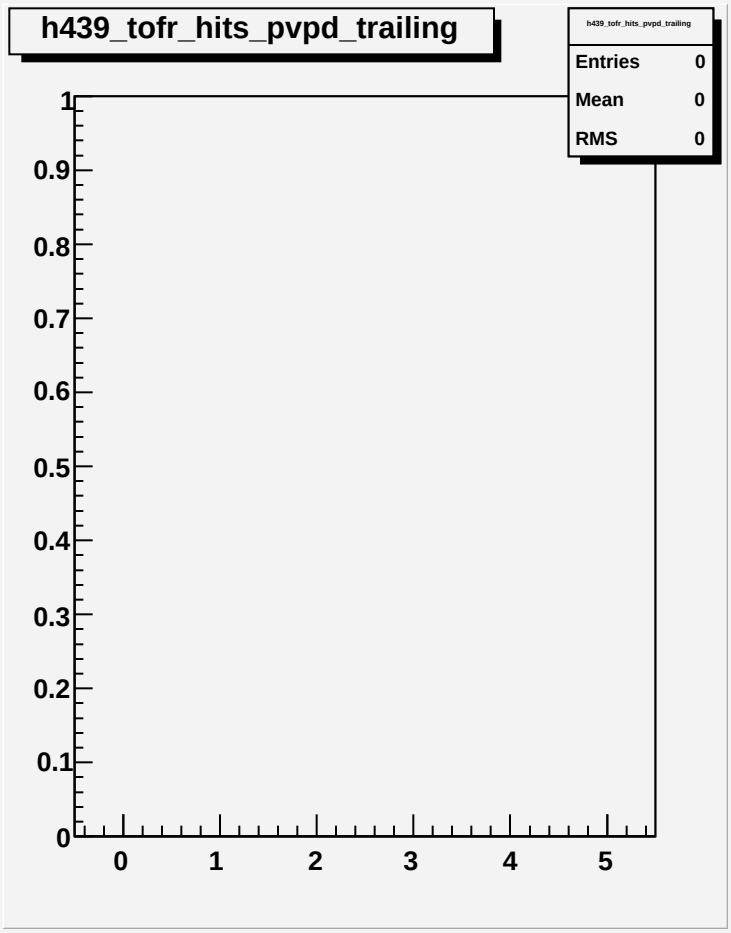
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5


h439_tofr_hits_pvpd_trailing
h439_tofr_hits_pvpd_trailing
Entries 0
Mean 0
RMS 0
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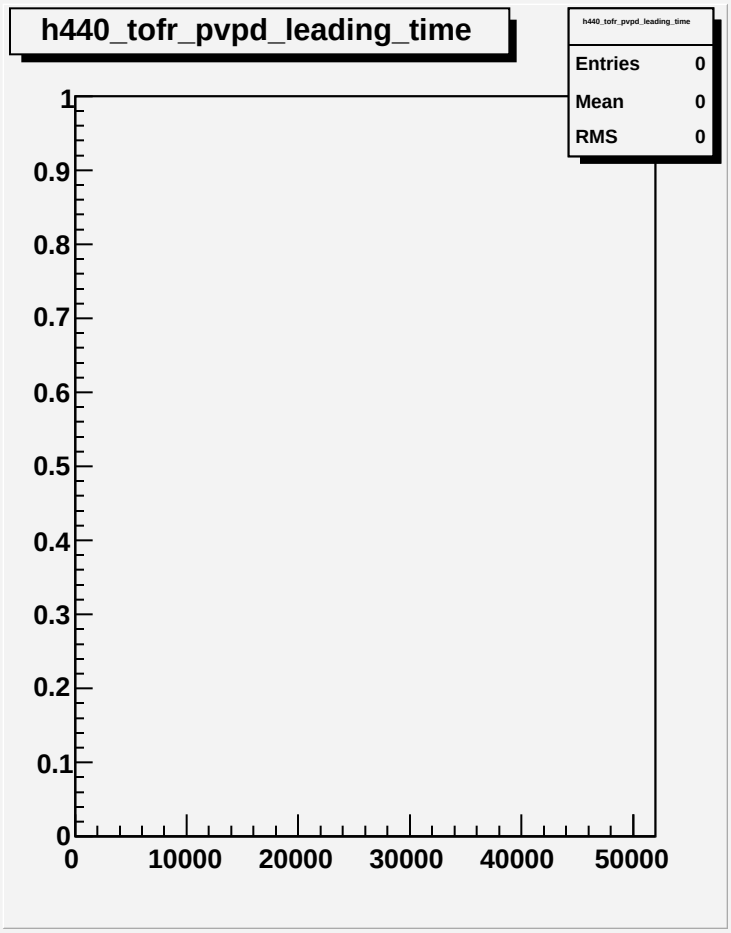
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5


h440_tofr_pvpd_leading_time
h440_tofr_pvpd_leading_time
Entries 0
Mean 0
RMS 0
1
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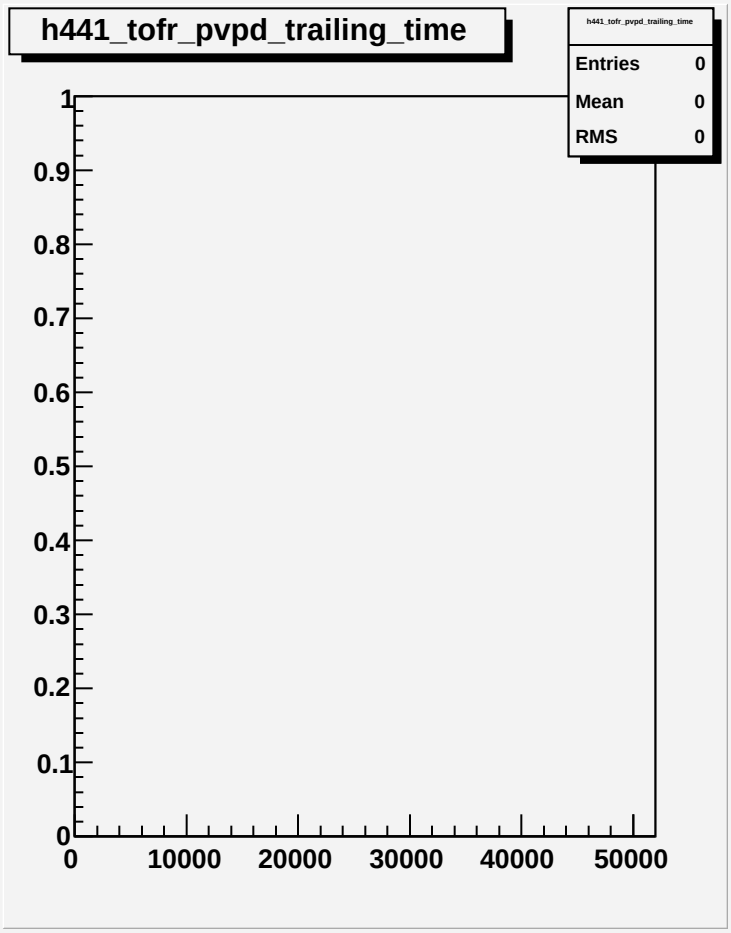
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000


h441_tofr_pvpd_trailing_time
h441_tofr_pvpd_trailing_time
Entries 0
Mean 0
RMS 0
1
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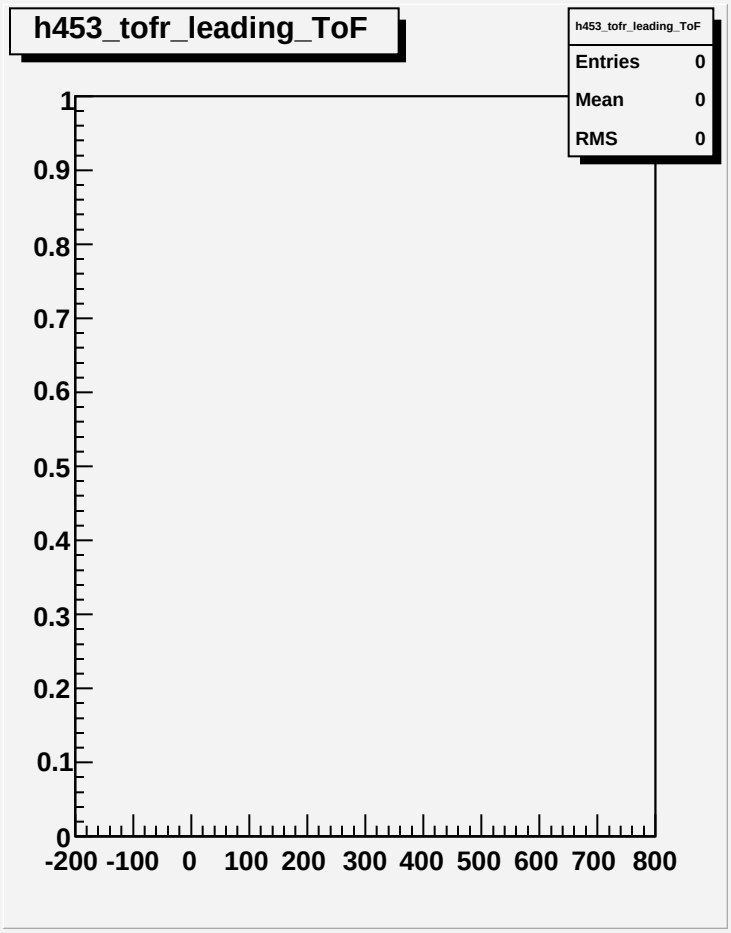
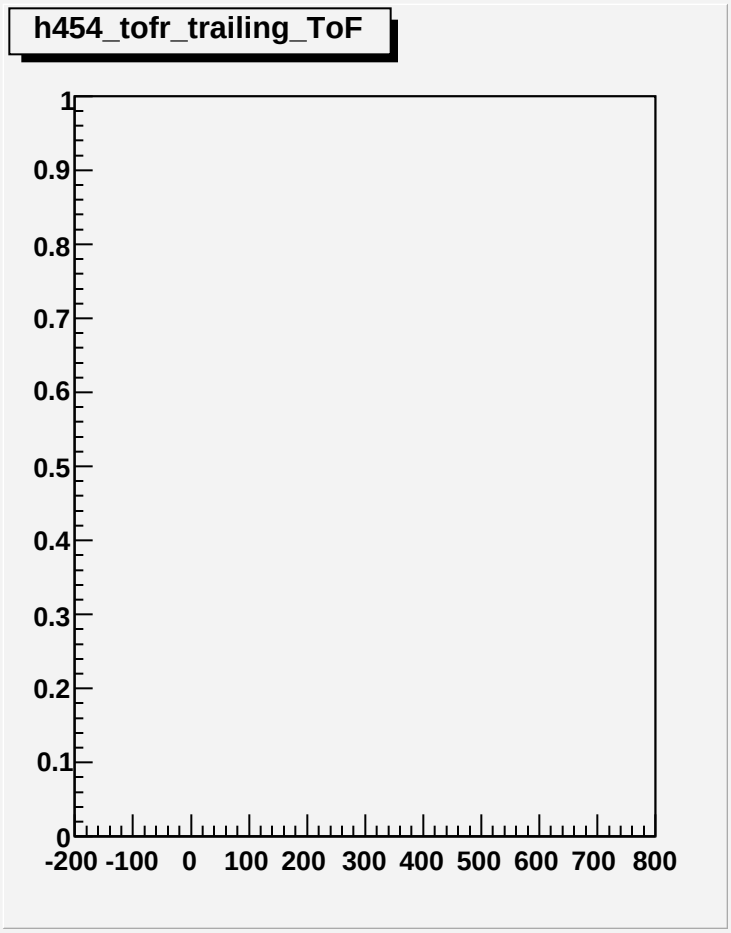
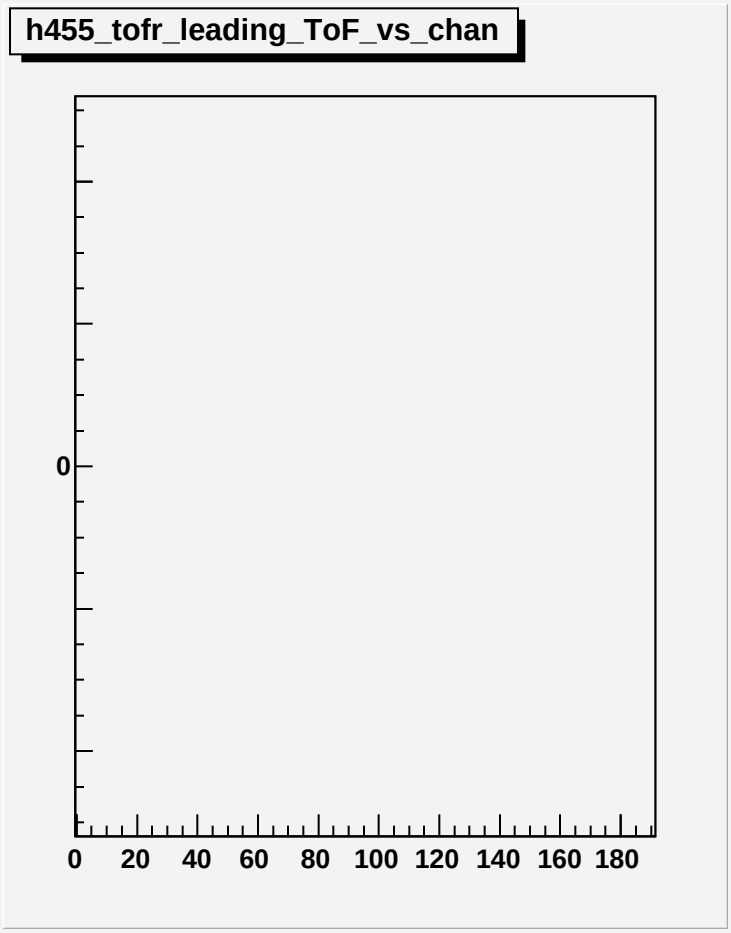
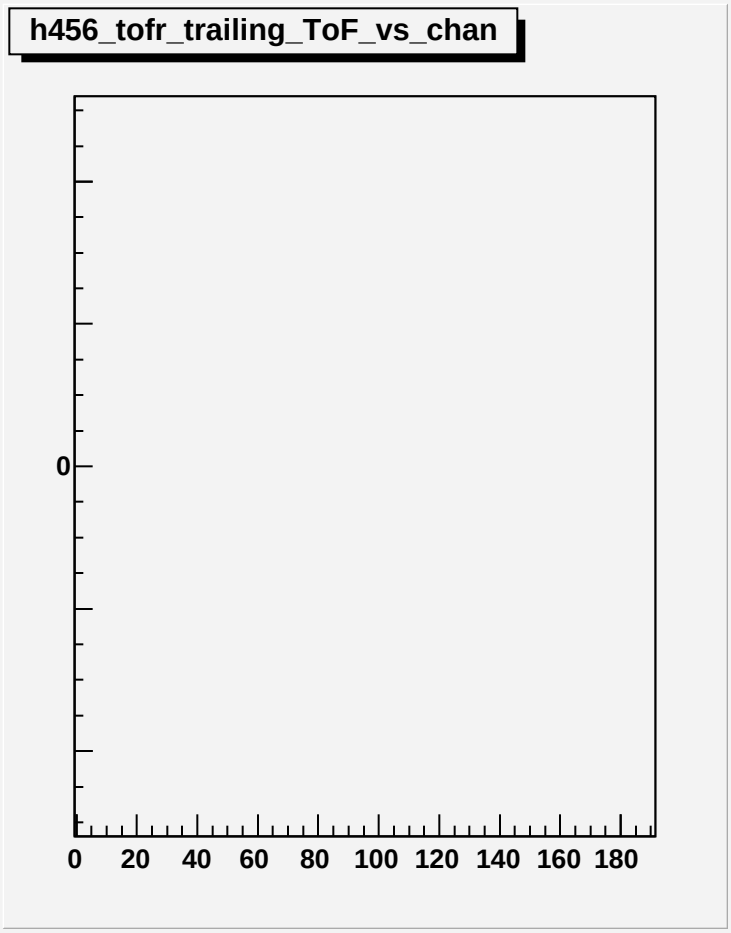
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000

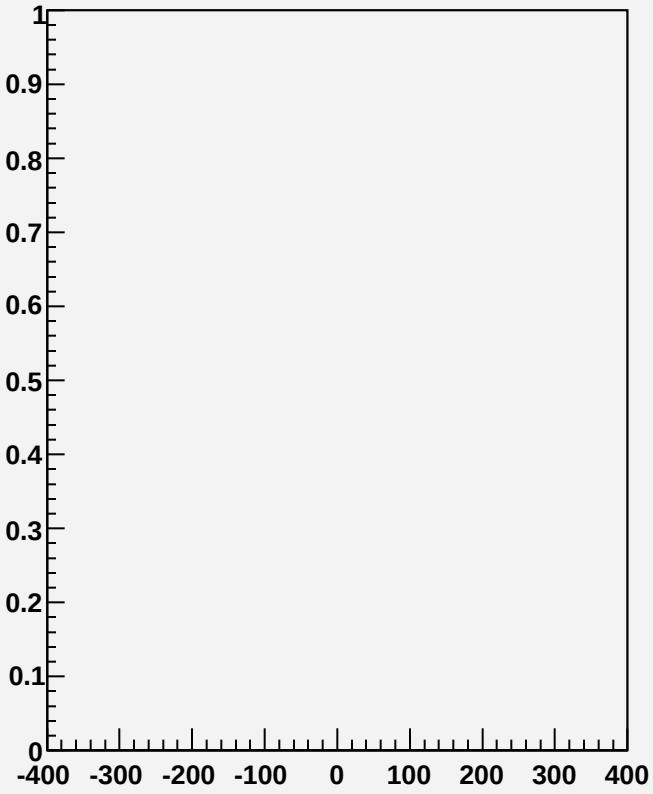

h453_tofr_leading_ToF
h453_tofr_leading_ToF
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-200 -100 0 100 200 300 400 500 600 700 800


h454_tofr_trailing_ToF
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-200 -100 0 100 200 300 400 500 600 700 800

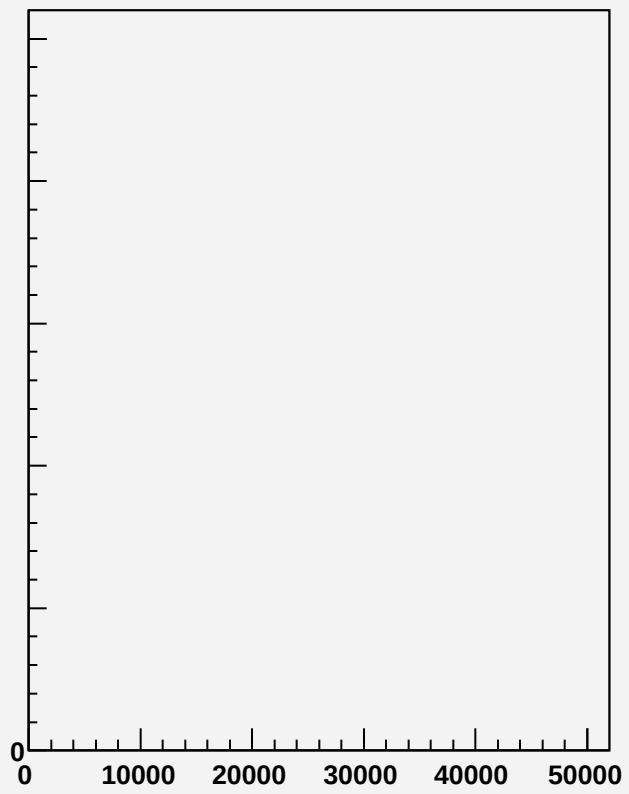

h455_tofr_leading_ToF_vs_chan
0
0 20 40 60 80 100 120 140 160 180


h456_tofr_trailing_ToF_vs_chan
0
0 20 40 60 80 100 120 140 160 180

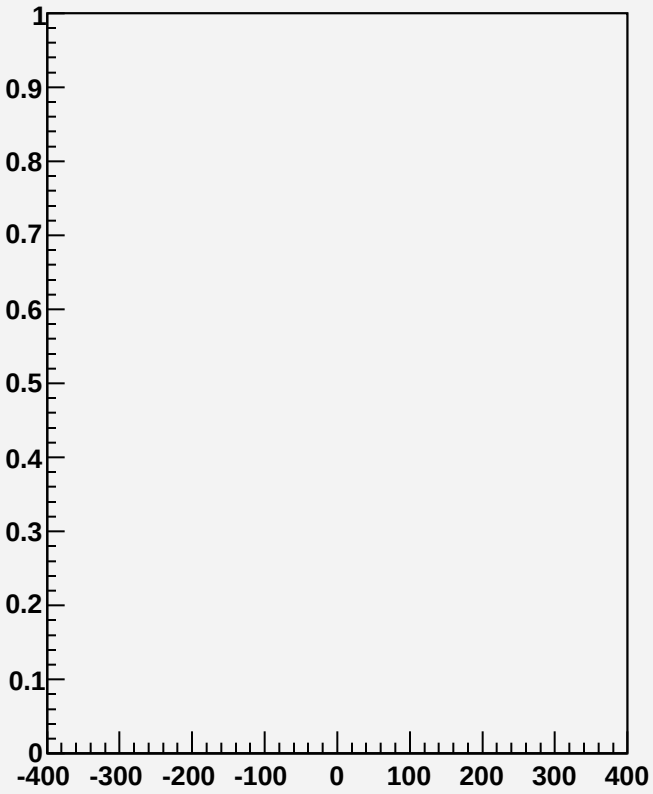
h457_tofr_pvpd_le_t0west_t0east



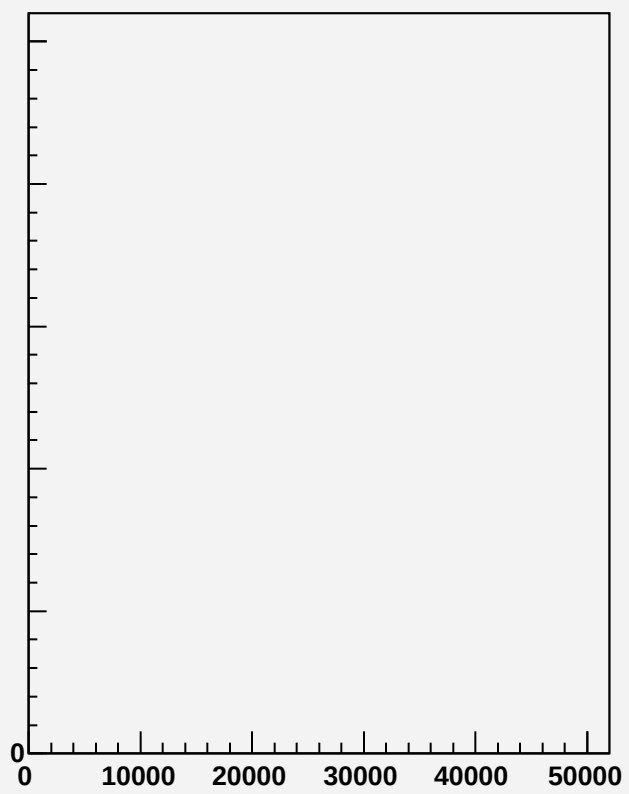
h458_tofr_pvpd_le_t0west_vs_t0east



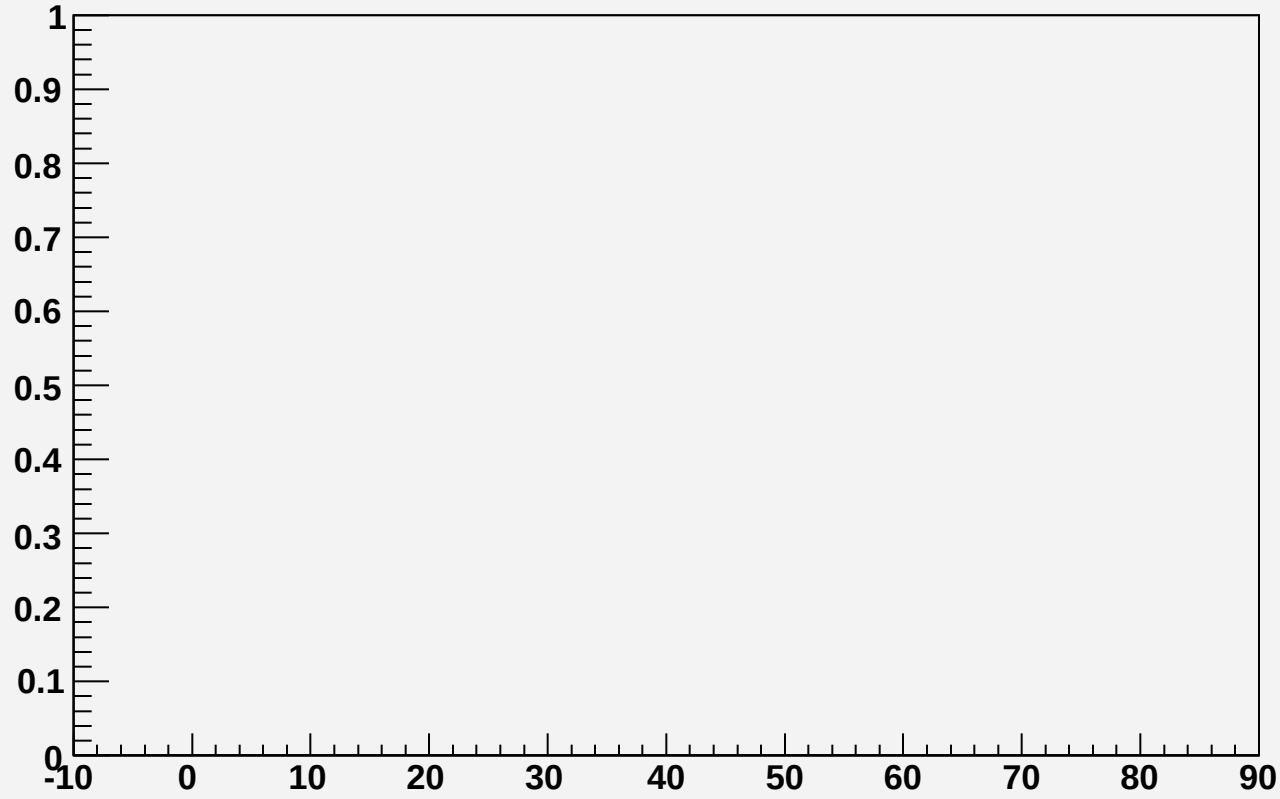
h459_tofr_pvpd_te_t0west_t0east



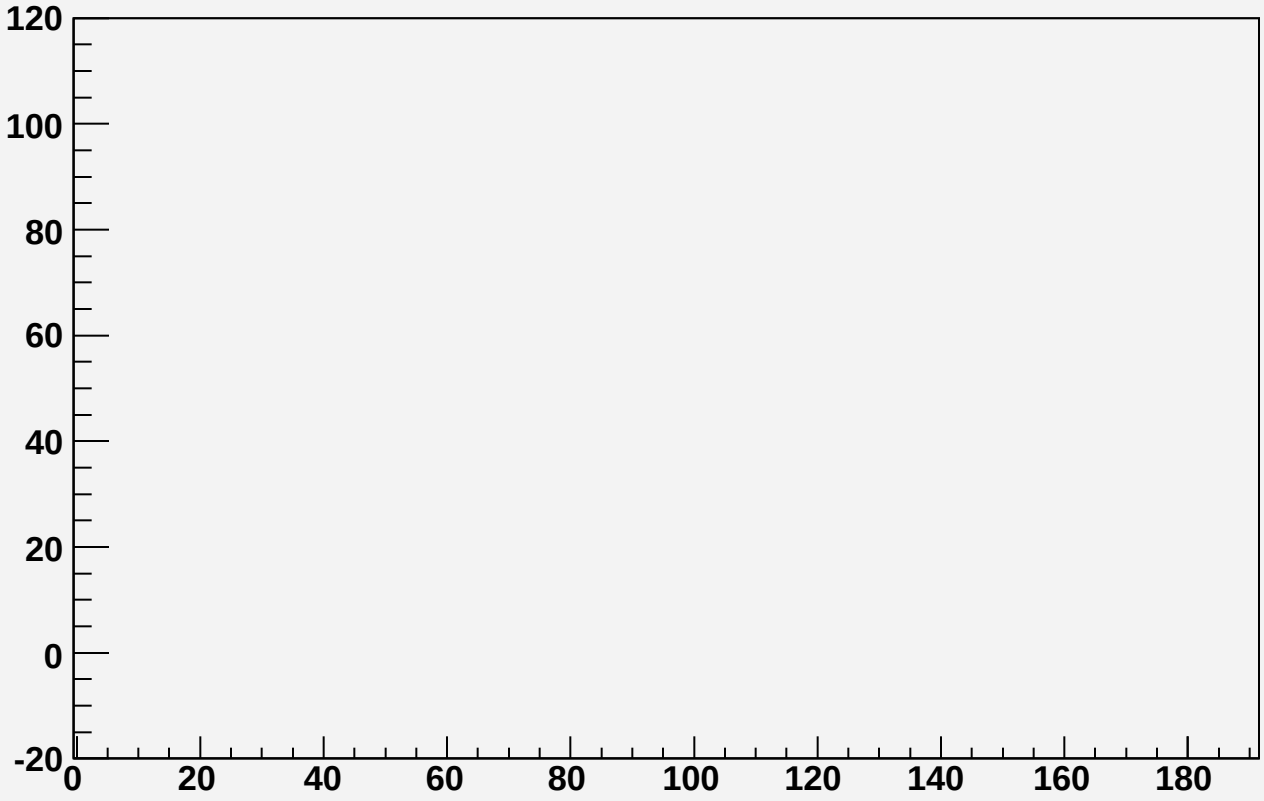
h460_tofr_pvpd_te_t0west_vs_t0east

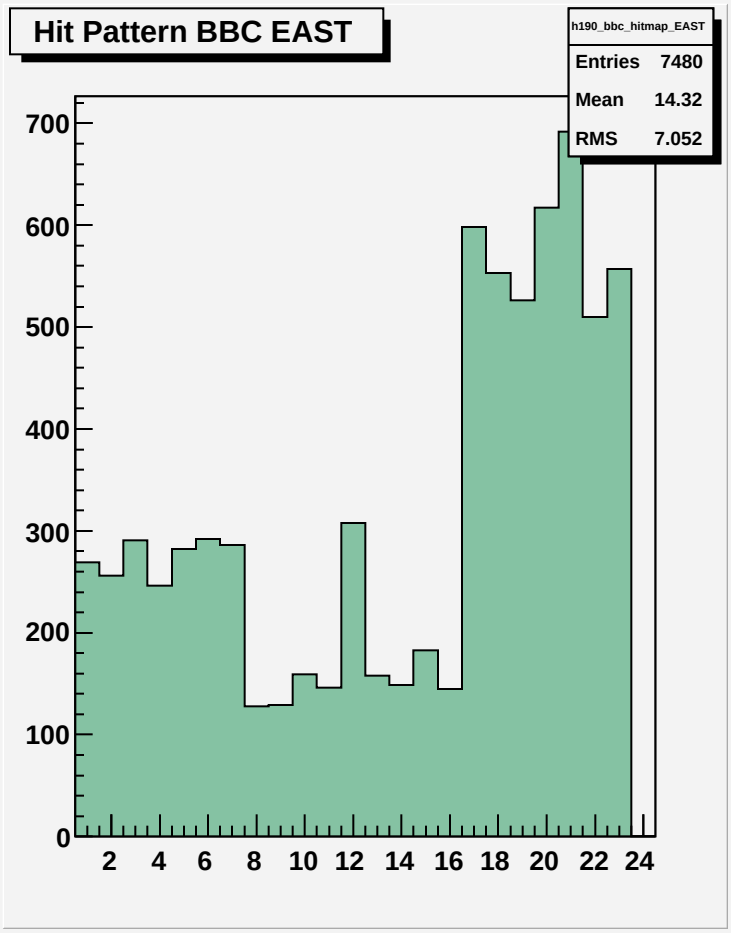


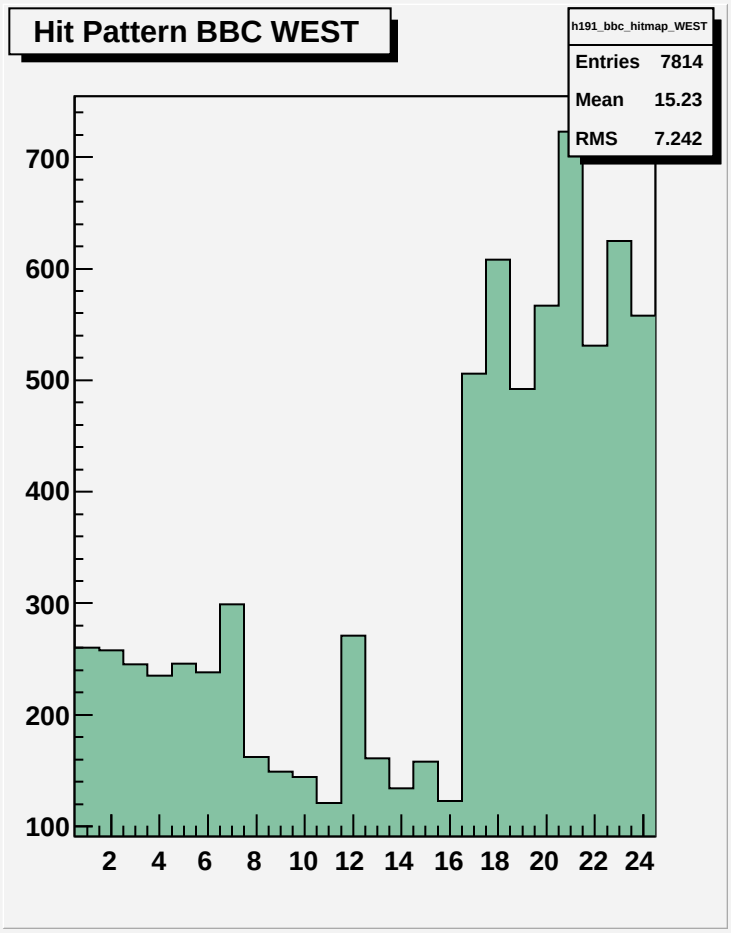
h461_tofr_ToT



h462_tofr_ToT_vs_chan




Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 7480
Mean 14.32
RMS 7.052
0
100
200
300
400
500
600
700
2 4 6 8 10 12 14 16 18 20 22 24


Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 7814
Mean 15.23
RMS 7.242
100
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400
500
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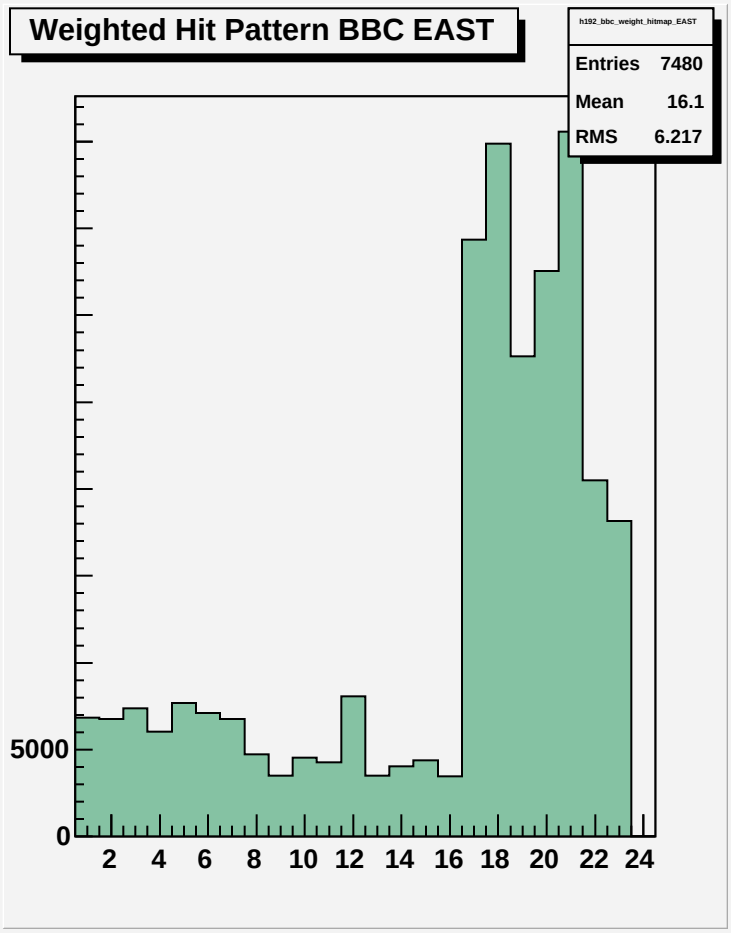
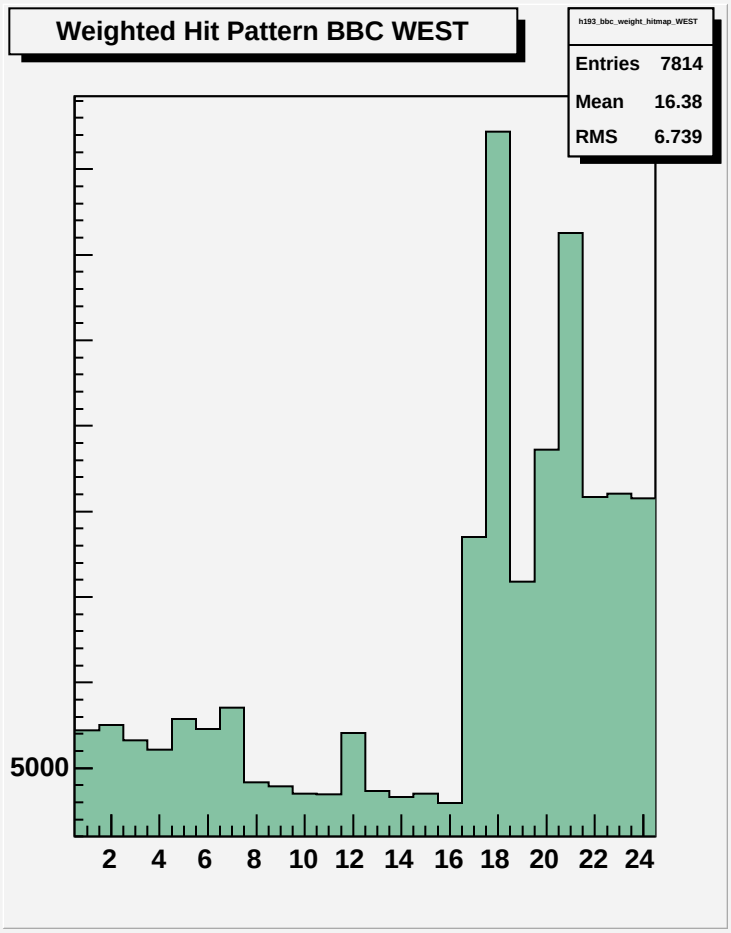

Weighted Hit Pattern BBC EAST
h192_bbc_weight_hitmap_EAST
Entries 7480
Mean 16.1
RMS 6.217
0
5000
2 4 6 8 10 12 14 16 18 20 22 24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Entries 7814
Mean 16.38
RMS 6.739
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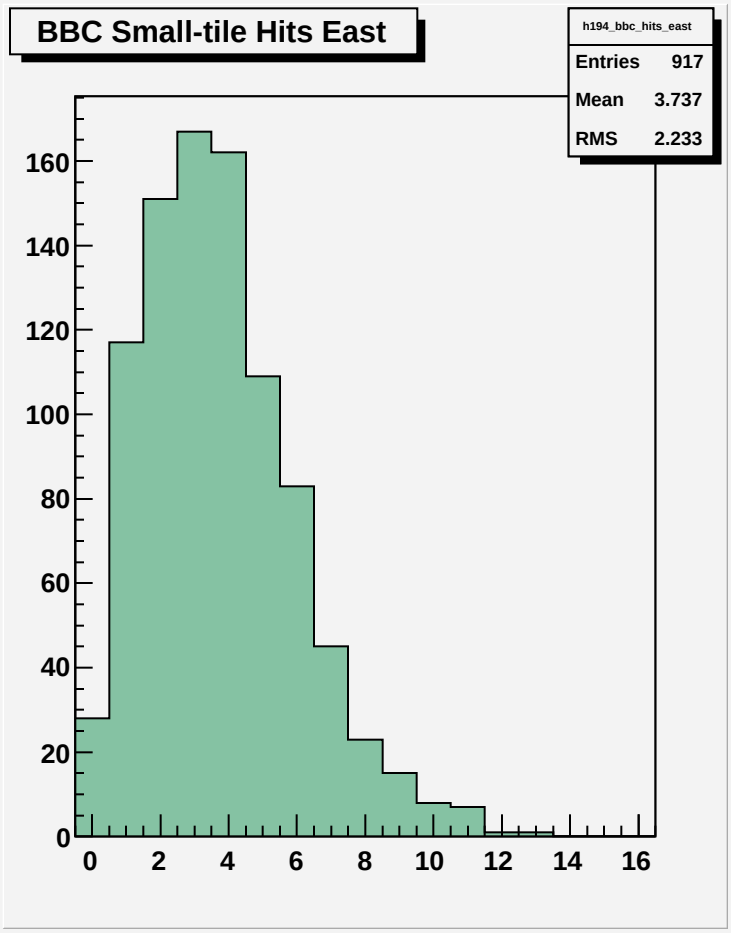
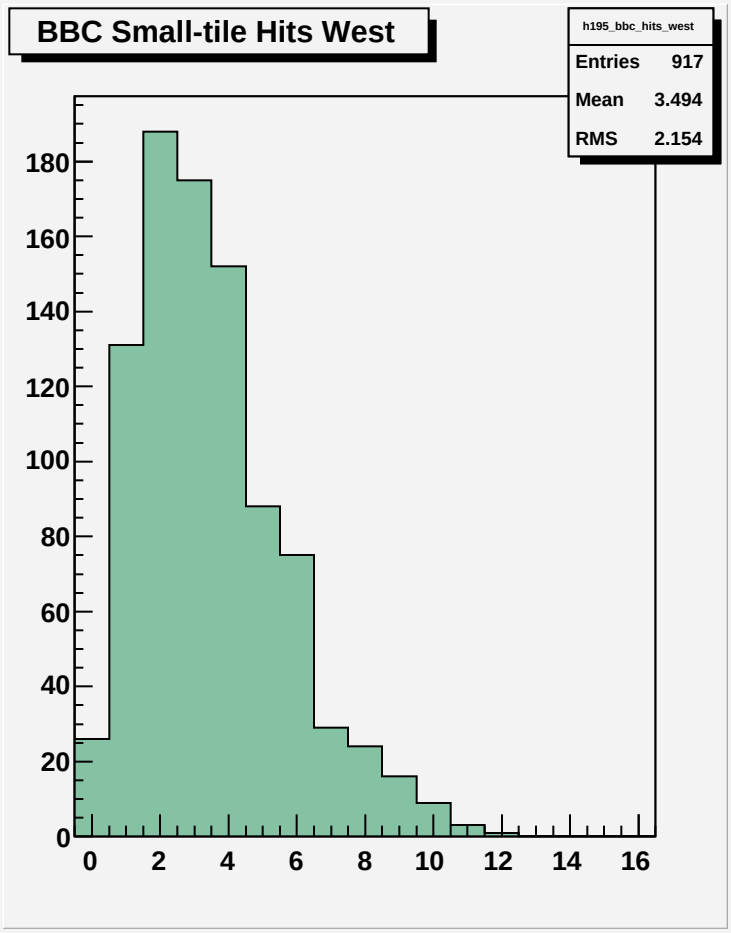

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 917
Mean 3.737
RMS 2.233
0 20 40 60 80 100 120 140 160
0 2 4 6 8 10 12 14 16


BBC Small-tile Hits West
h195_bbc_hits_west
Entries 917
Mean 3.494
RMS 2.154
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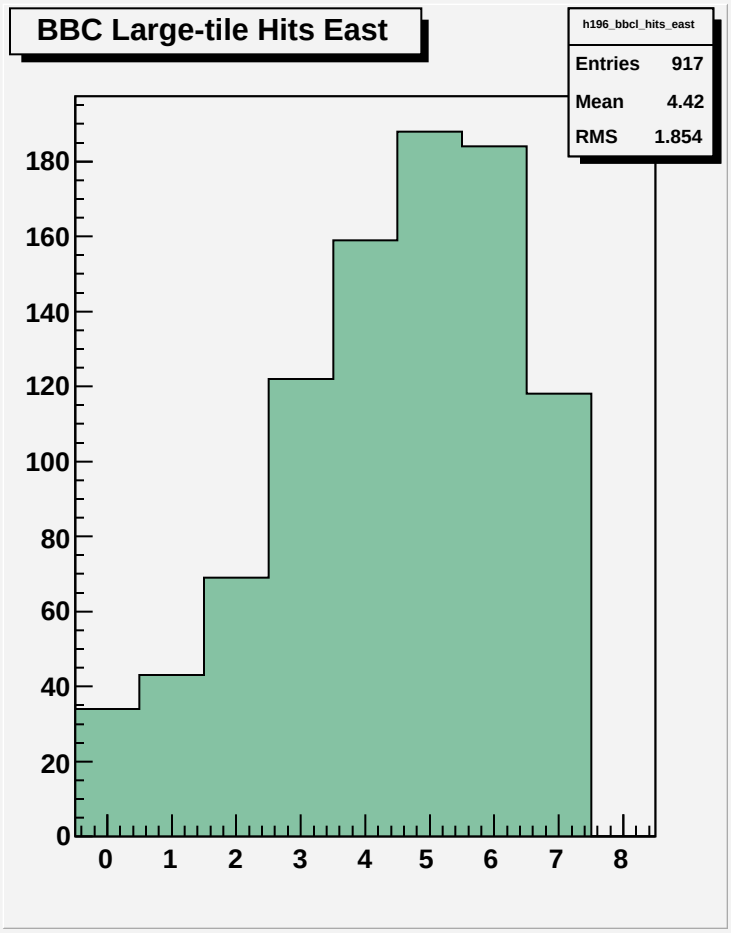
0 2 4 6 8 10 12 14 16


BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 917
Mean 4.42
RMS 1.854
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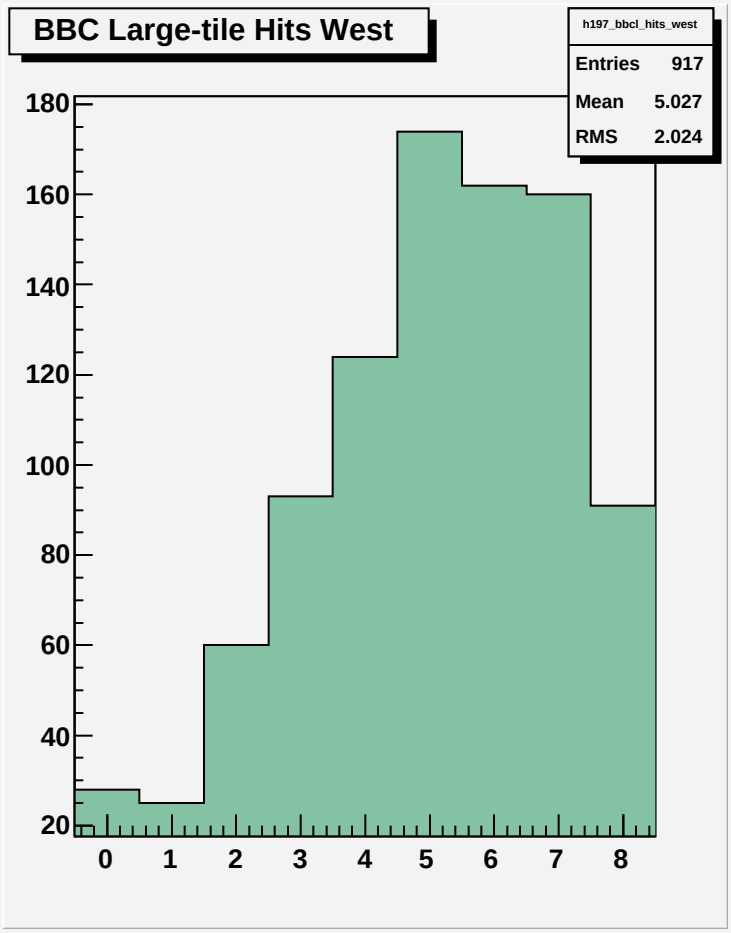
BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 917
Mean 5.027
RMS 2.024
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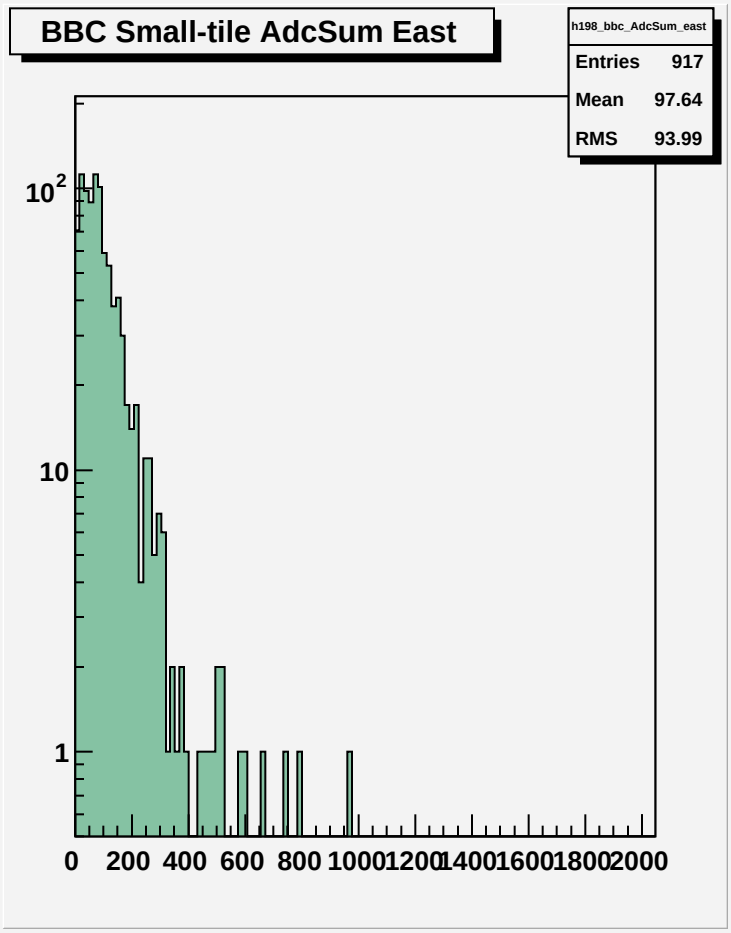
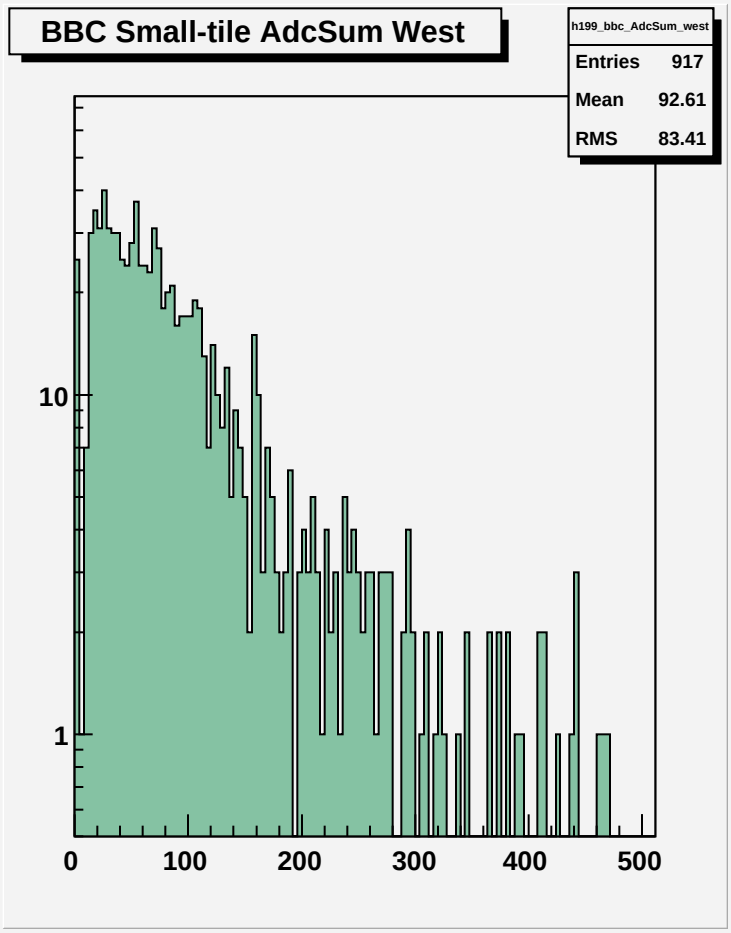
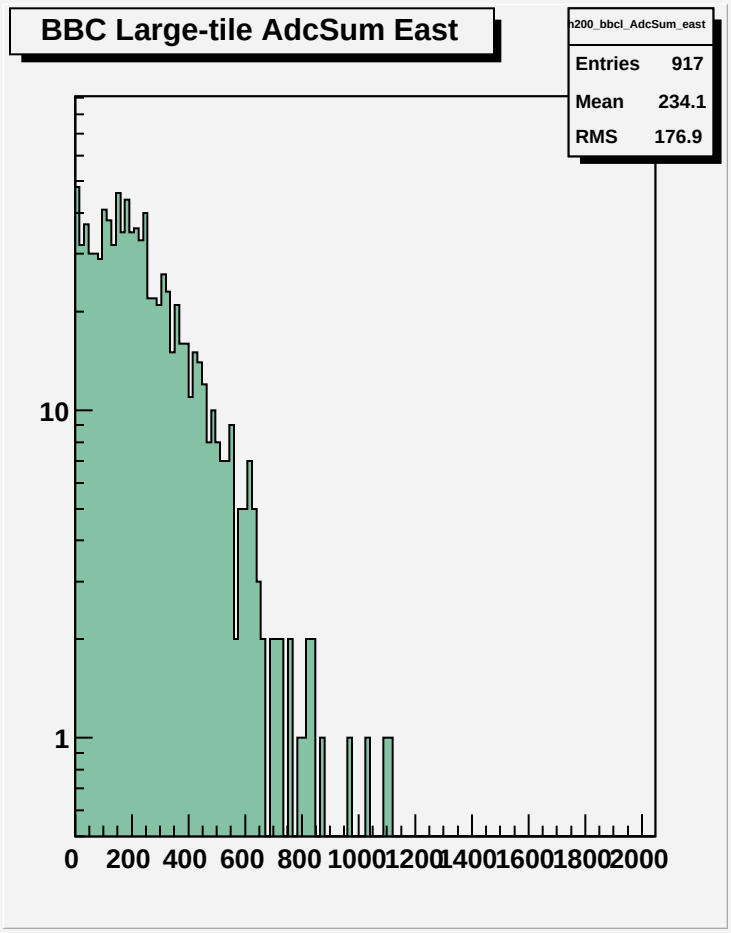
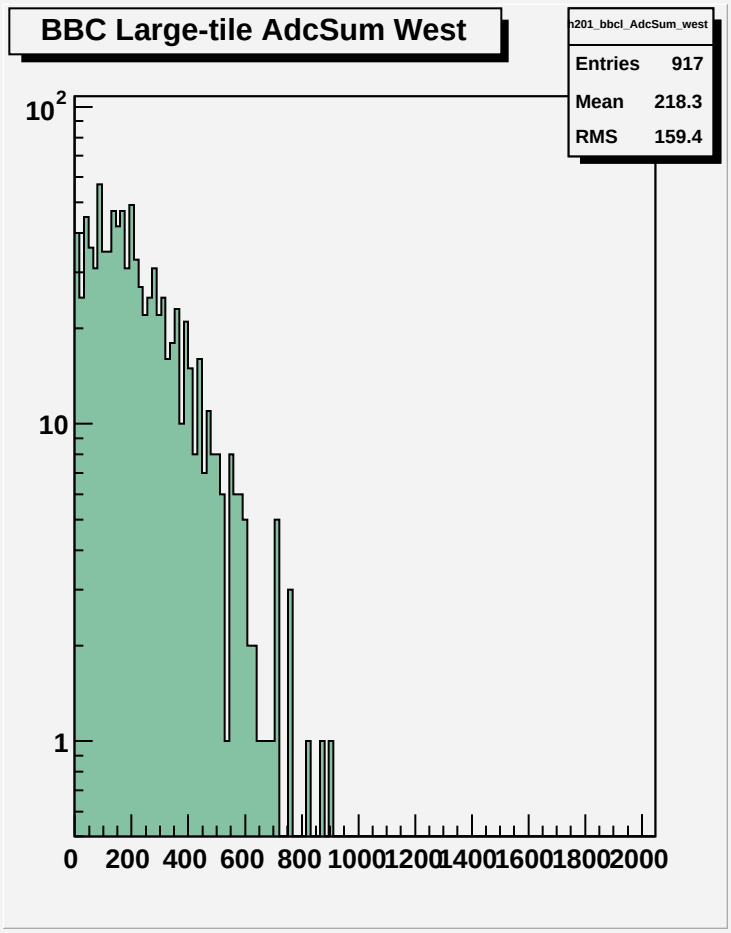
0 1 2 3 4 5 6 7 8


BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 917
Mean 97.64
RMS 93.99
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000


BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 917
Mean 92.61
RMS 83.41
10
1
0 100 200 300 400 500


BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 917
Mean 234.1
RMS 176.9
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000


BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 917
Mean 218.3
RMS 159.4
10^2
10
1
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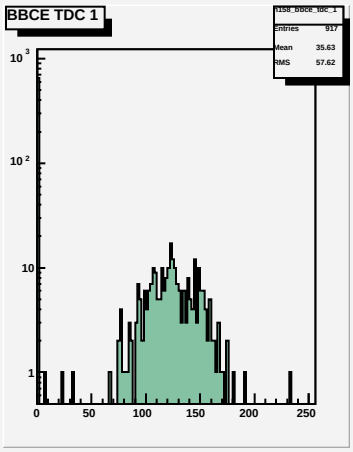
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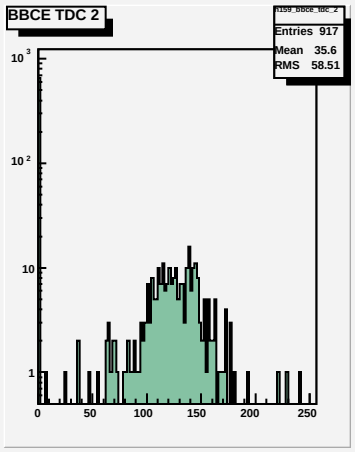
Entries 917
Mean 35.63
RMS 57.62


BBCE TDC 2
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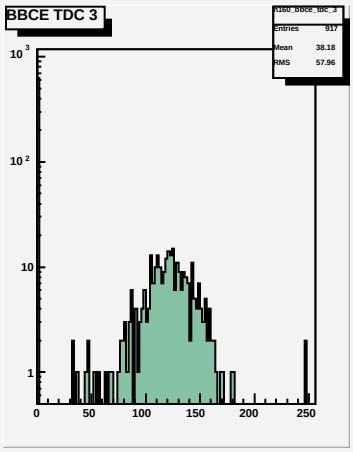
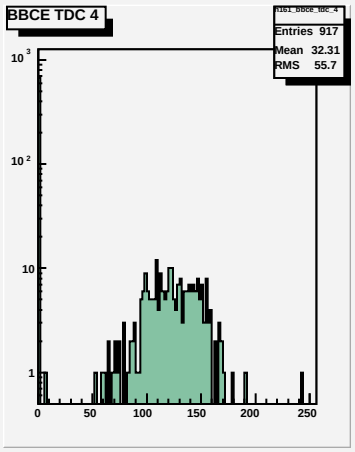
Entries 917
Mean 35.6
RMS 58.51


BBCE TDC 3
h160_bbce_tdc_3
Entries 917
Mean 38.18
RMS 57.96


BBCE TDC 4
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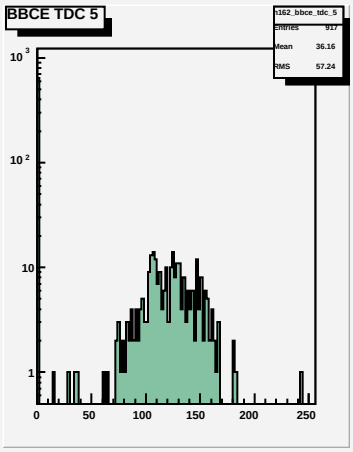
Entries 917
Mean 32.31
RMS 55.7


BBCE TDC 5
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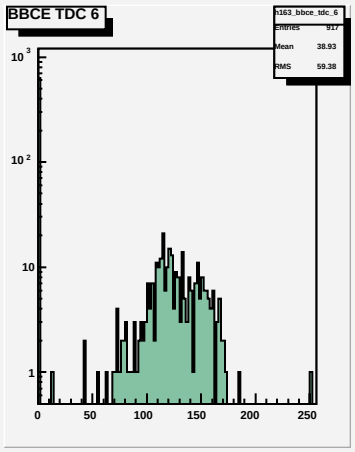
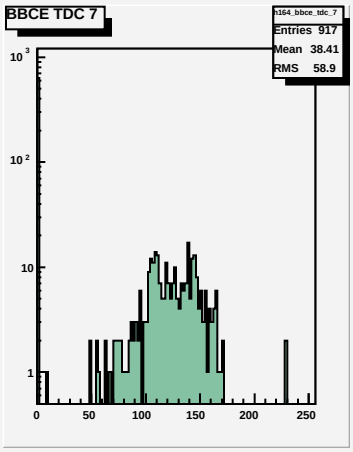
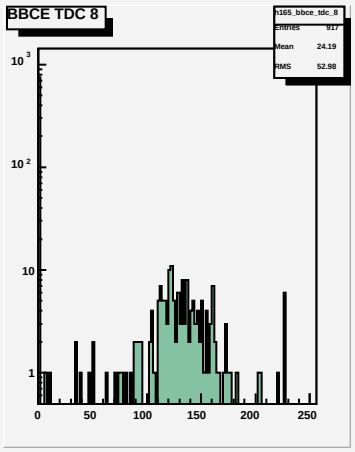
Entries 917
Mean 36.16
RMS 57.24


BBCE TDC 6
h163_bbce_tdc_6
Entries 917
Mean 38.93
RMS 59.38


BBCE TDC 7
h164_bbce_tdc_7
Entries 917
Mean 38.41
RMS 58.9


BBCE TDC 8
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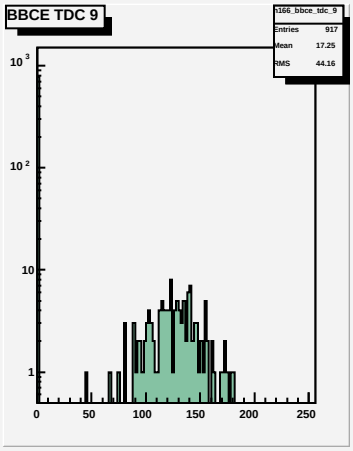
Entries 917
Mean 24.19
RMS 52.98


BBCE TDC 9
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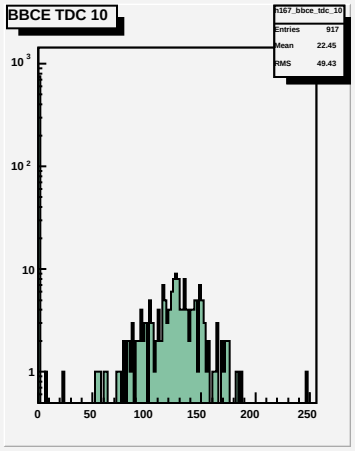
Entries 917
Mean 17.25
RMS 44.16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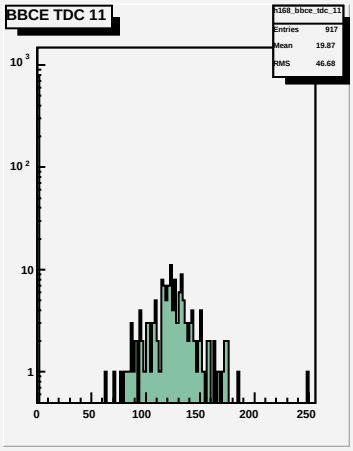
Entries 917
Mean 22.45
RMS 49.43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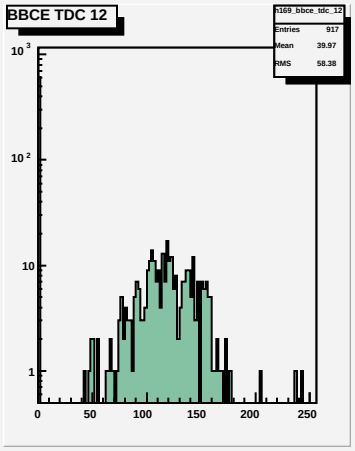
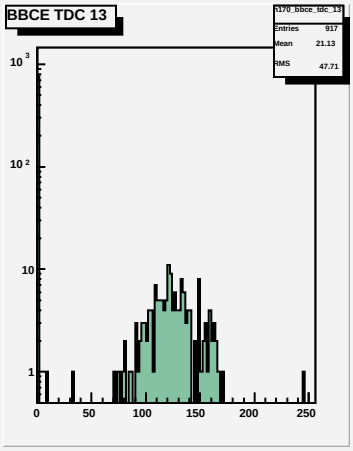
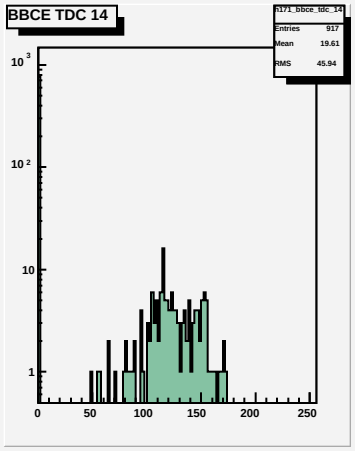
Mean 19.87
RMS 46.68


BBCE TDC 12
h169_bbce_tdc_12
Entries 917
Mean 39.97
RMS 58.38


BBCE TDC 13
h170_bbce_tdc_13
Entries 917
Mean 21.13
RMS 47.71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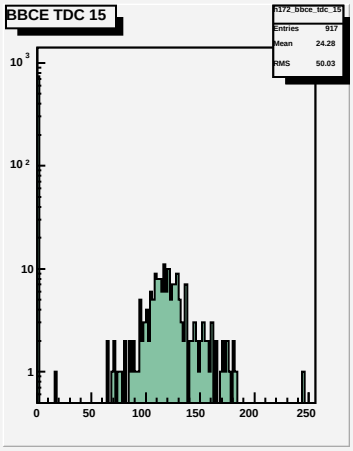
Entries 917
Mean 19.61
RMS 45.94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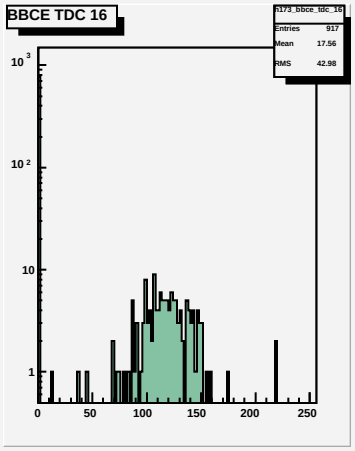
Entries 917
Mean 24.28
RMS 50.03


BBCE TDC 16
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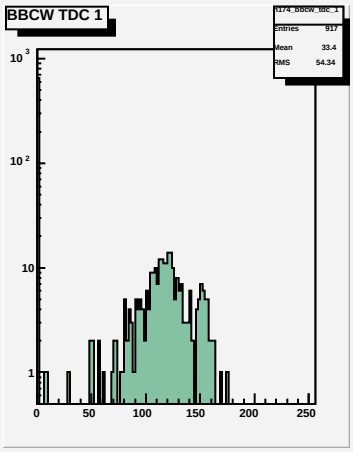
Entries 917
Mean 17.56
RMS 42.98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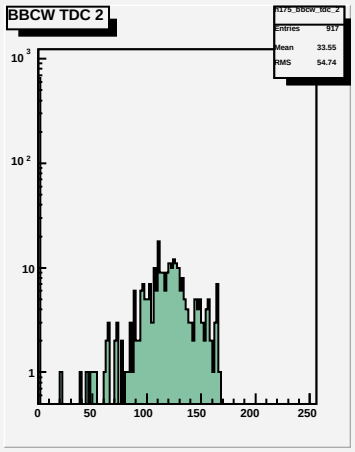
Entries 917
Mean 33.4
RMS 54.34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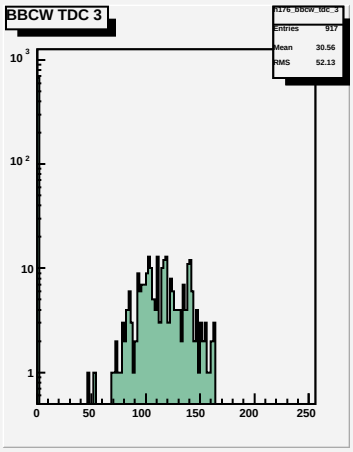
Entries 917
Mean 33.55
RMS 54.74


BBCW TDC 3
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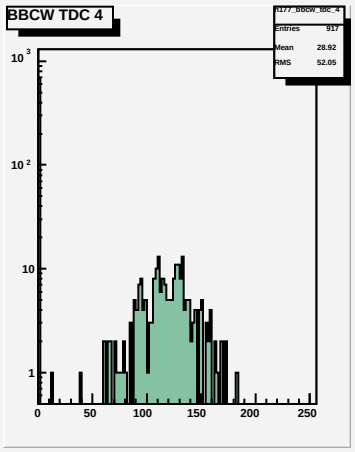
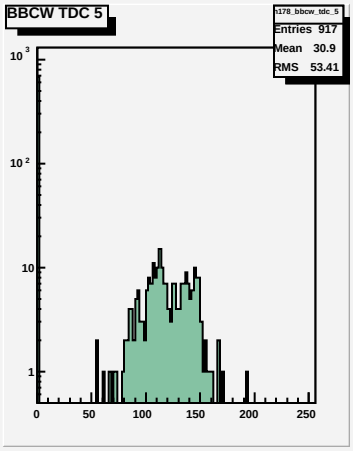
Entries 917
Mean 30.56
RMS 52.13


BBCW TDC 4
h177_bbcw_tdc_4
Entries 917
Mean 28.92
RMS 52.05


BBCW TDC 5
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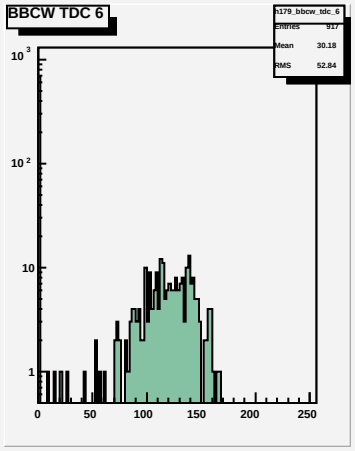
Entries 917
Mean 30.9
RMS 53.41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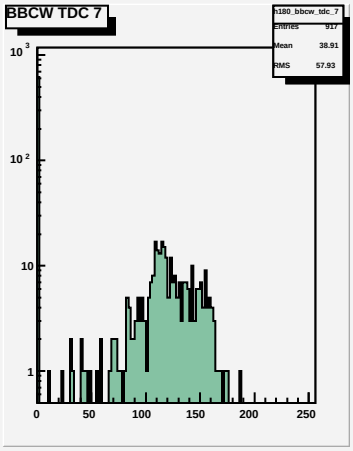
RMS 52.84


BBCW TDC 7
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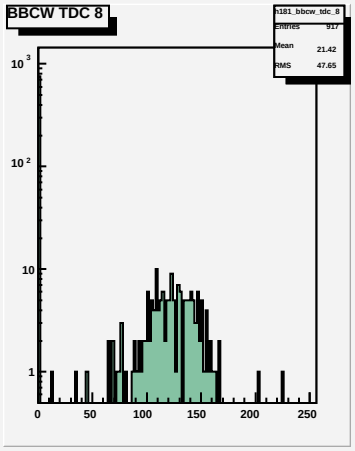
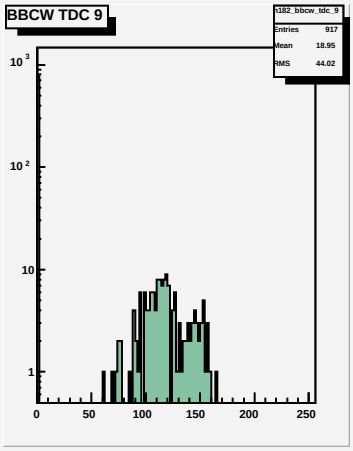
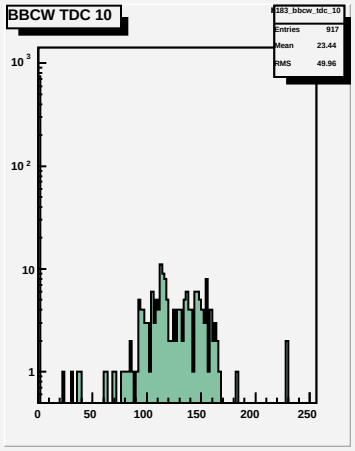
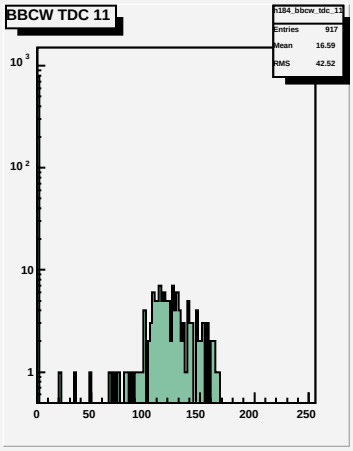
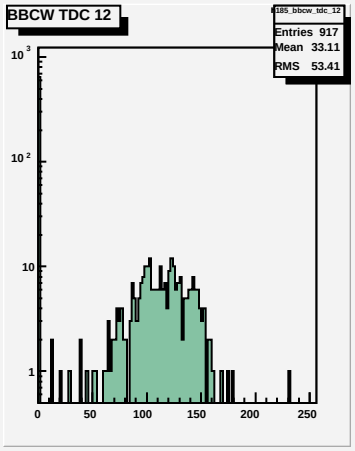
Entries 917
Mean 38.91
RMS 57.93


BBCW TDC 8
h181_bbcw_tdc_8
Entries 917
Mean 21.42
RMS 47.65


BBCW TDC 9
h182_bbcw_tdc_9
Entries 917
Mean 18.95
RMS 44.02


BBCW TDC 10
h183_bbcw_tdc_10
Entries 917
Mean 23.44
RMS 49.96


BBCW TDC 11
h184_bbcw_tdc_11
Entries 917
Mean 16.59
RMS 42.52


BBCW TDC 12
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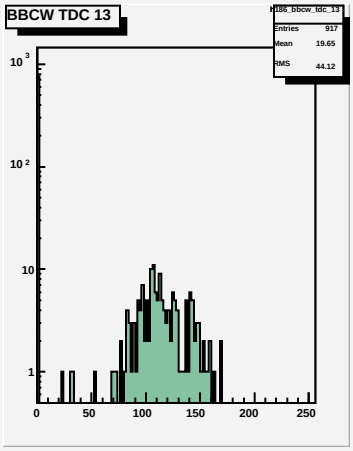
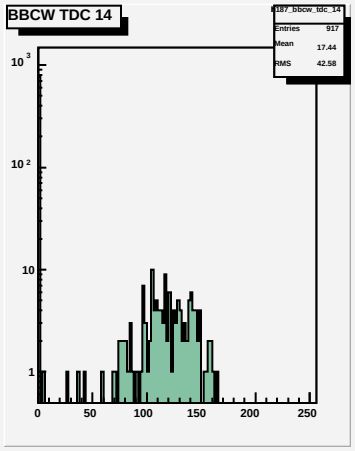
Entries 917
Mean 33.11
RMS 53.41


BBCW TDC 13
h186_bbcw_tdc_13
Entries 917
Mean 19.65
RMS 44.12


BBCW TDC 14
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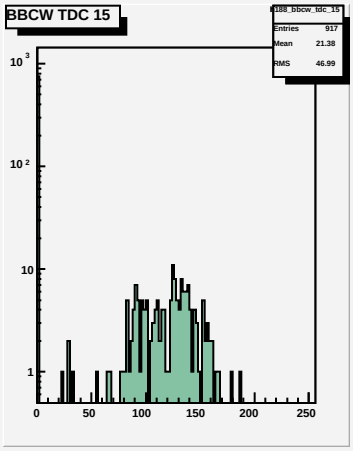
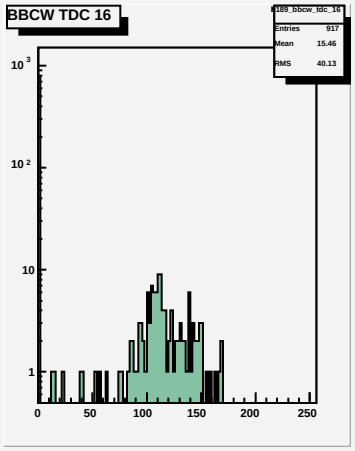
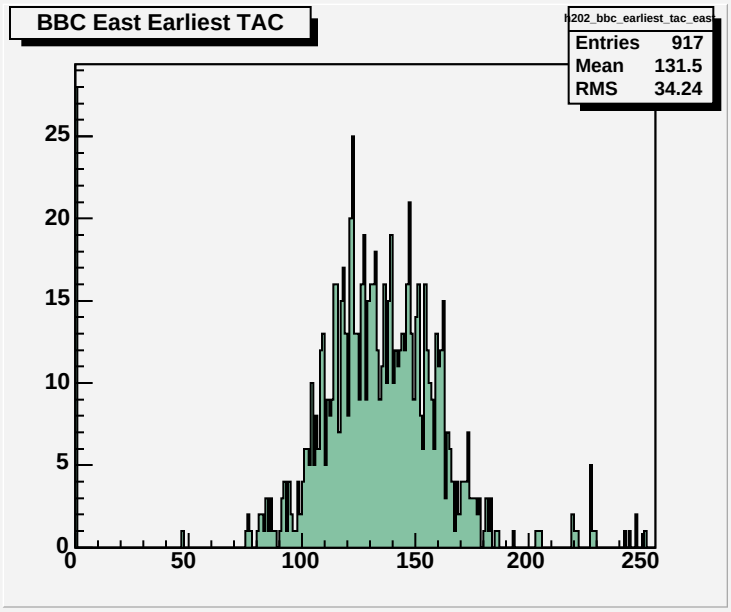
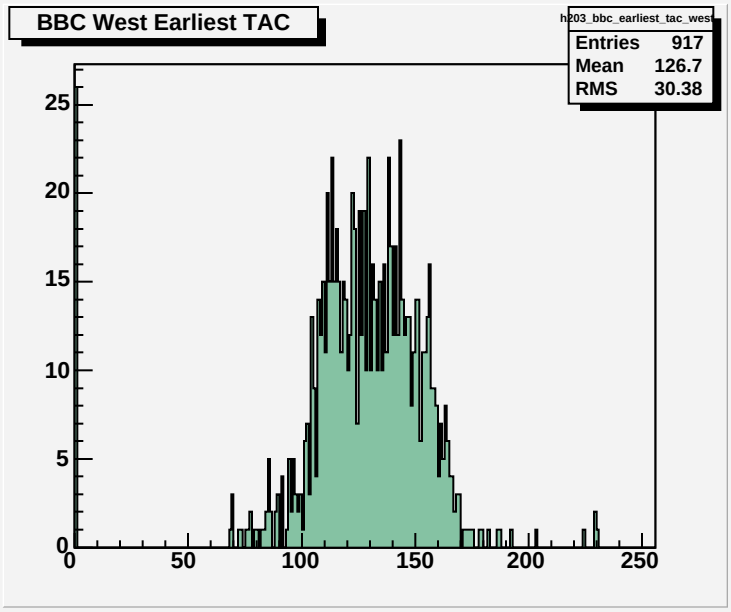
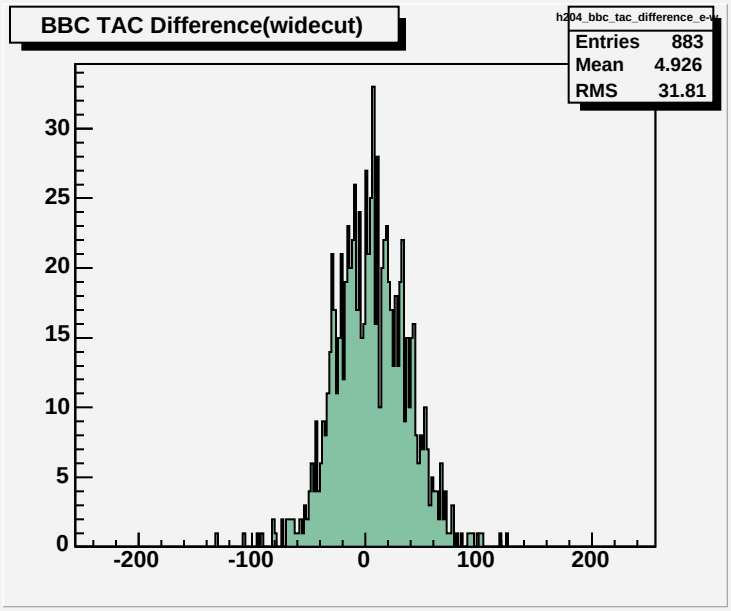
Entries 917
Mean 17.44
RMS 42.58

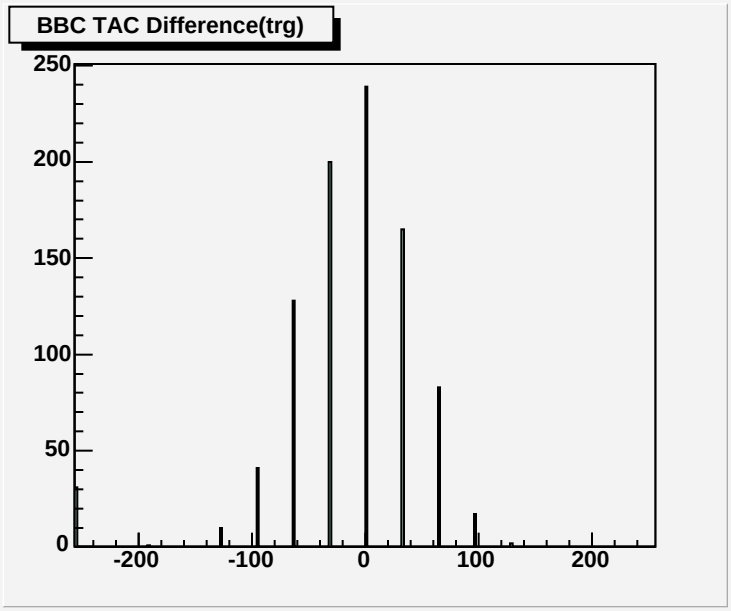

BBCW TDC 15
h188_bbcw_tdc_15
Entries 917
Mean 21.38
RMS 46.99

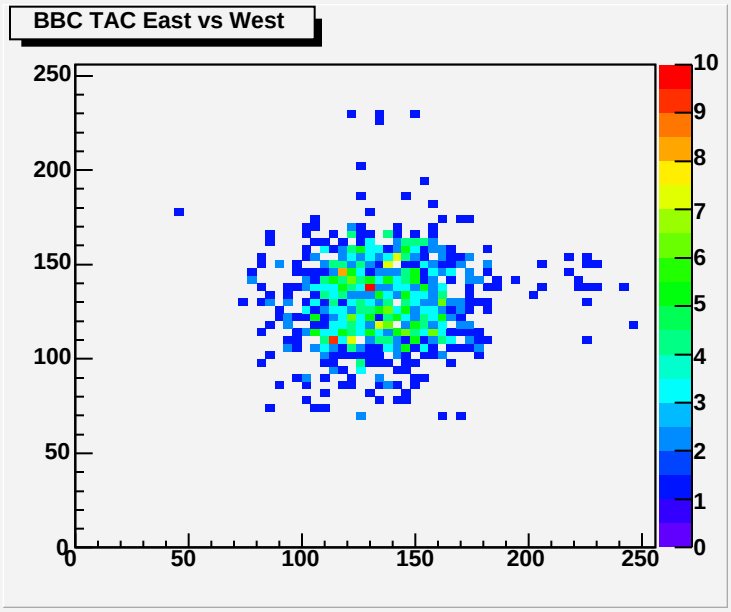

BBCW TDC 16
h189_bbcw_tdc_16
Entries 917
Mean 15.46
RMS 40.13

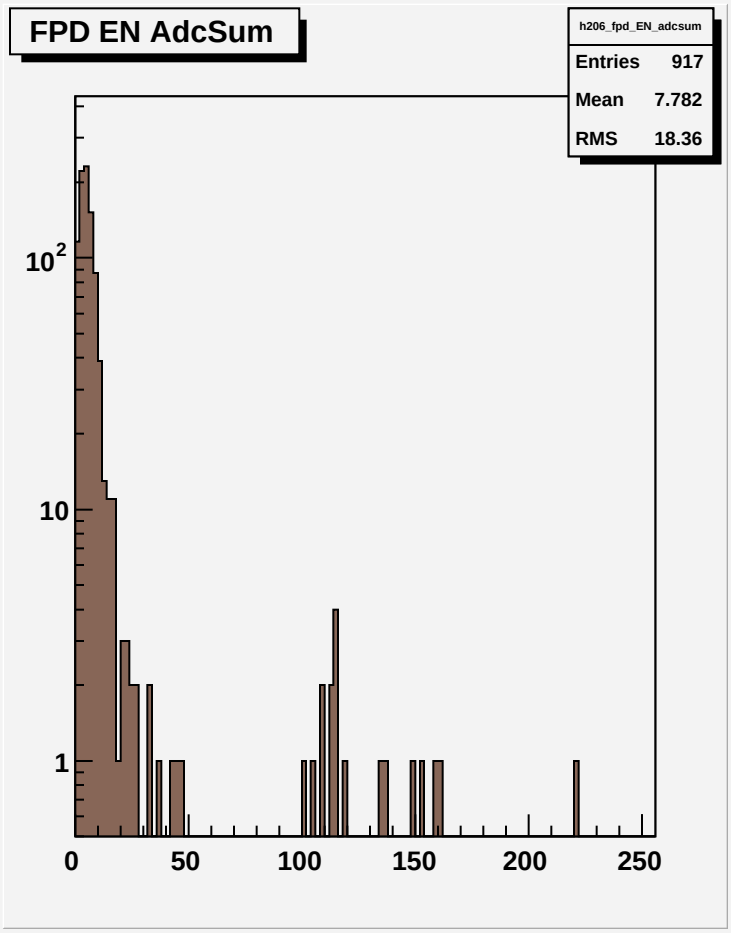

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 917
Mean 131.5
RMS 34.24

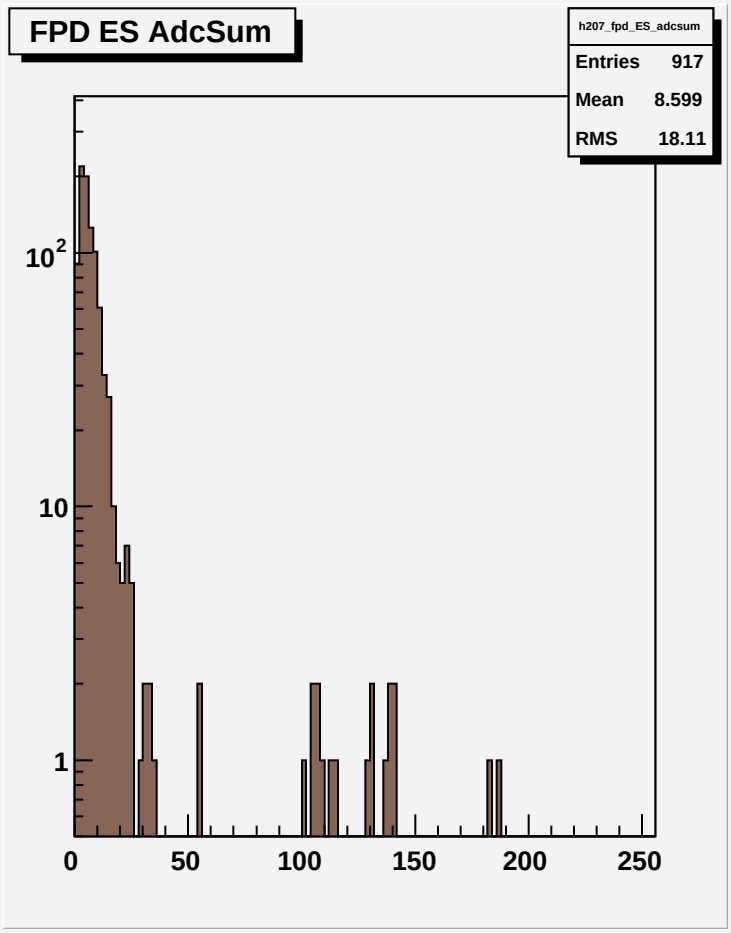

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 917
Mean 126.7
RMS 30.38


BBC TAC Difference(widecut)
h204_bbc_tac_difference_e-w
Entries 883
Mean 4.926
RMS 31.81


BBC TAC Difference(trg)


BBC TAC East vs West


FPD EN AdcSum
h206_fpd_EN_adcsum
Entries 917
Mean 7.782
RMS 18.36
10^2
10
1
0
50
100
150
200
250


FPD ES AdcSum
h207_fpd_ES_adcsum
Entries 917
Mean 8.599
RMS 18.11
10^2
10
1
0
50
100
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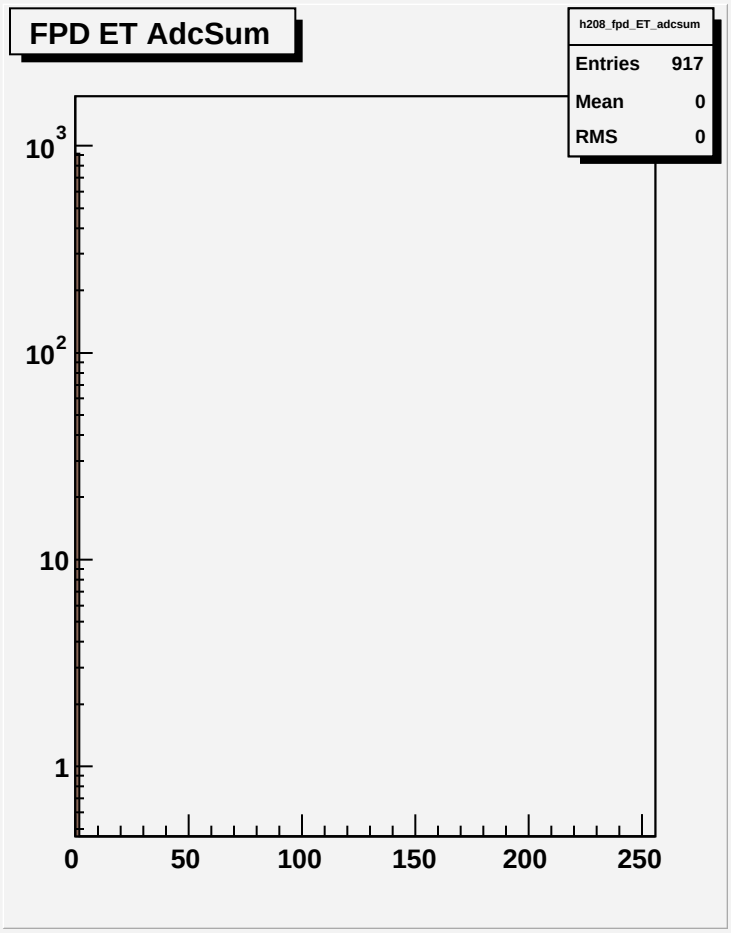
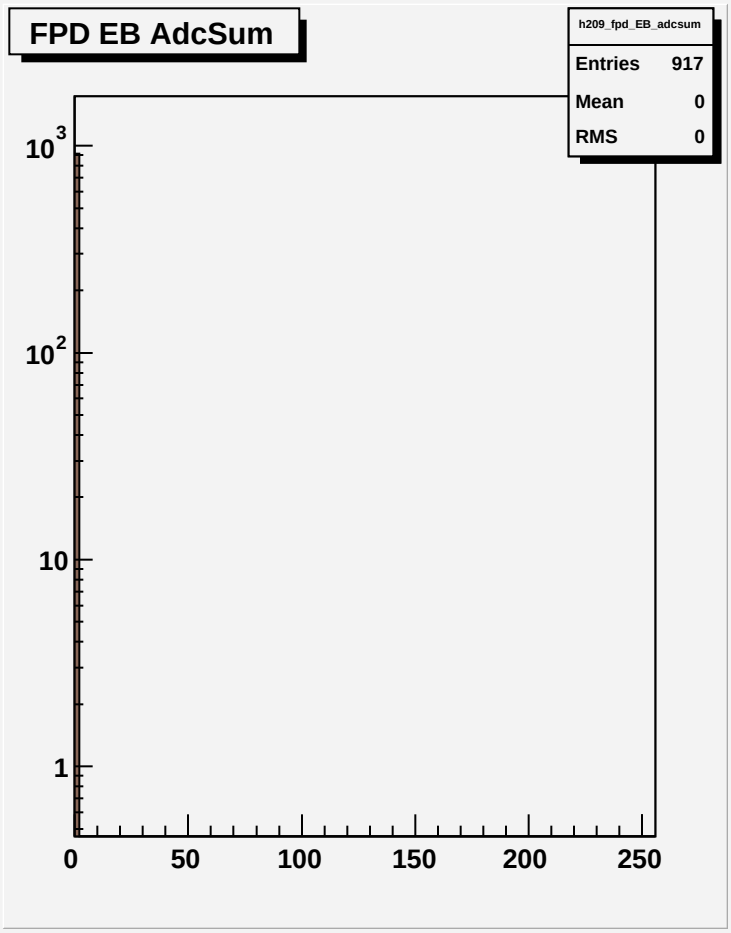
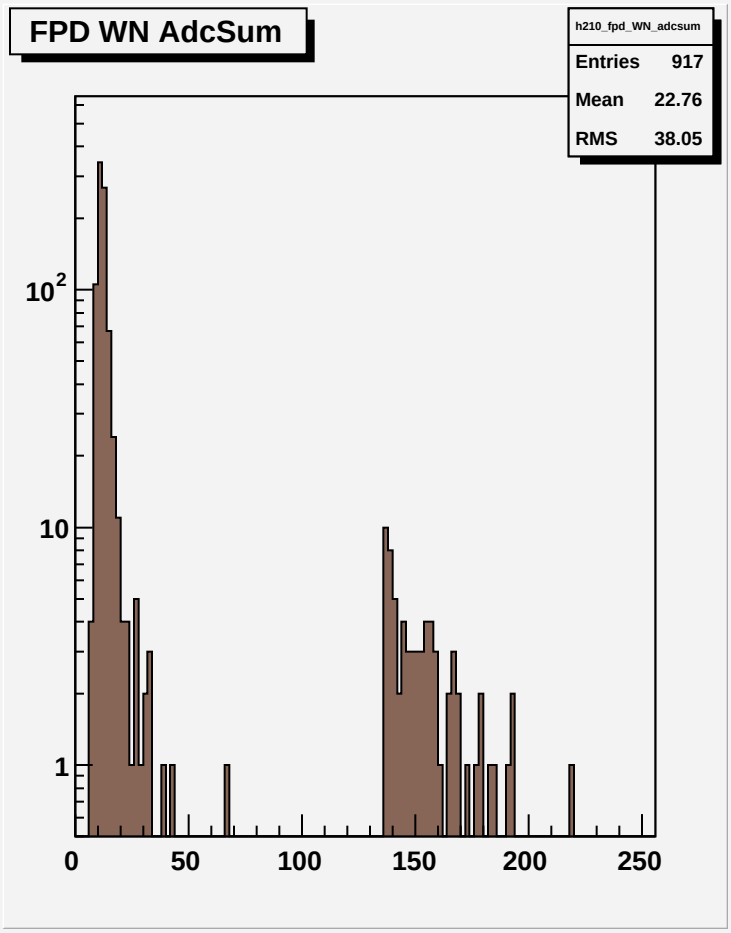
200
250


FPD ET AdcSum
h208_fpd_ET_adcsum
Entries 917
Mean 0
RMS 0
10^3
10^2
10
1
0
50
100
150
200
250


FPD EB AdcSum
h209_fpd_EB_adcsum
Entries 917
Mean 0
RMS 0
10^3
10^2
10
1
0
50
100
150
200
250


FPD WN AdcSum
h210_fpd_WN_adcsum
Entries 917
Mean 22.76
RMS 38.05
10^2
10
1
0
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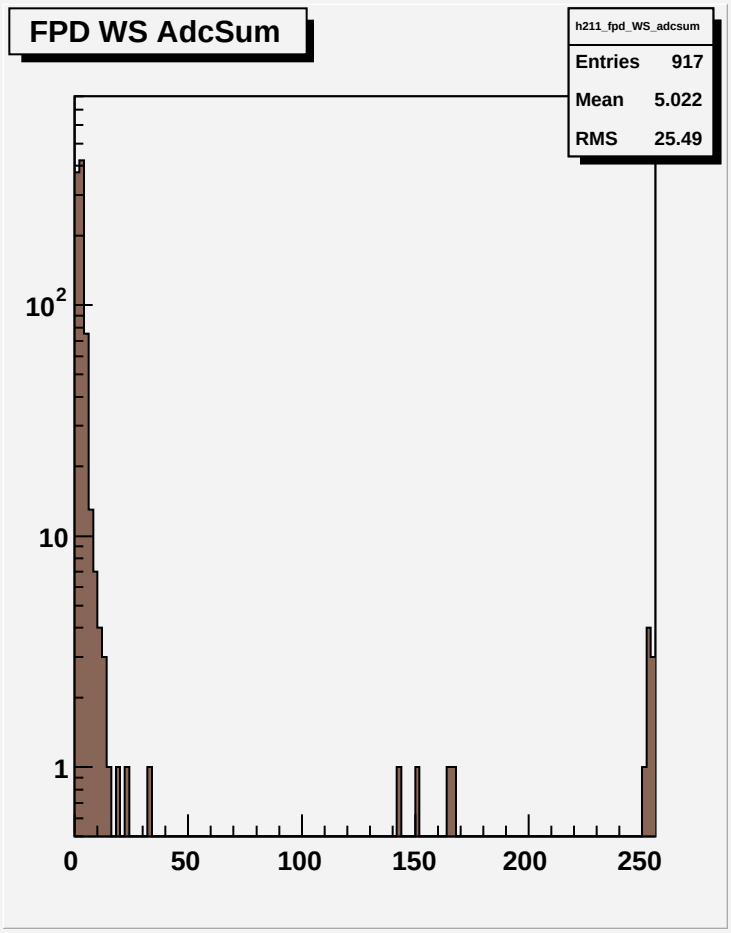
100
150
200
250


FPD WS AdcSum
h211_fpd_WS_adcsum
Entries 917
Mean 5.022
RMS 25.49
10^2
10
1
0
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100
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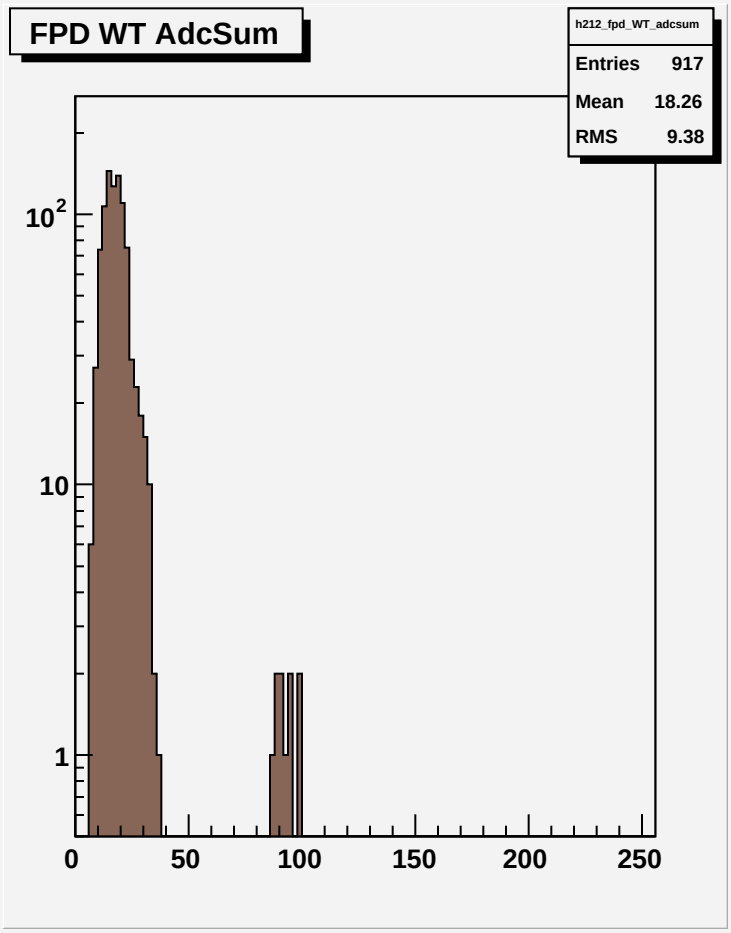
200
250


FPD WT AdcSum
h212_fpd_WT_adcsum
Entries 917
Mean 18.26
RMS 9.38
10^2
10
1
0
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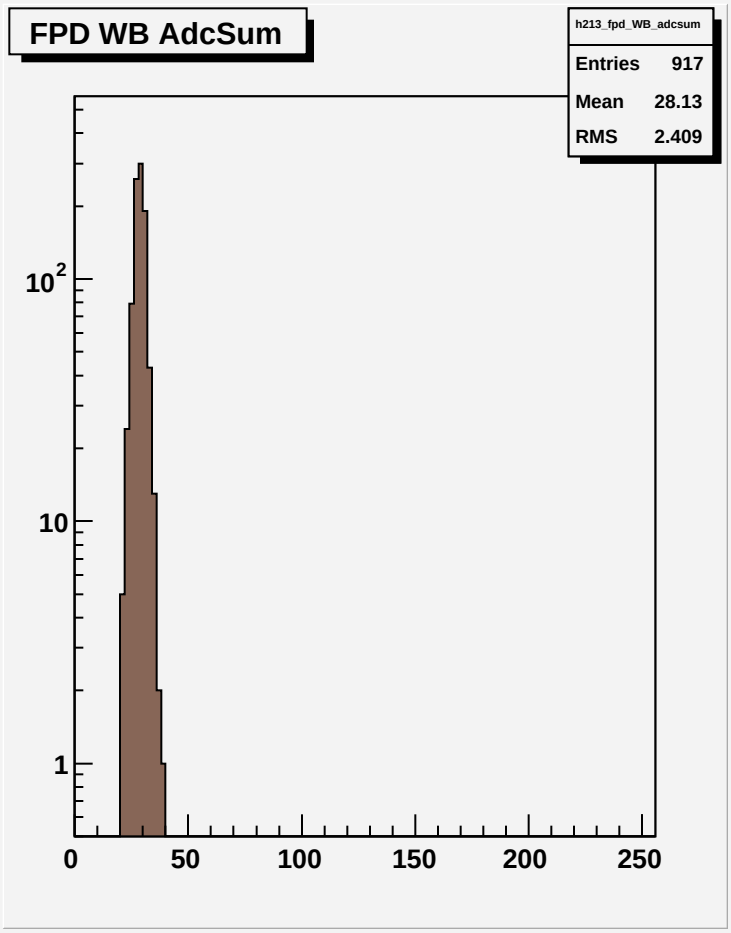
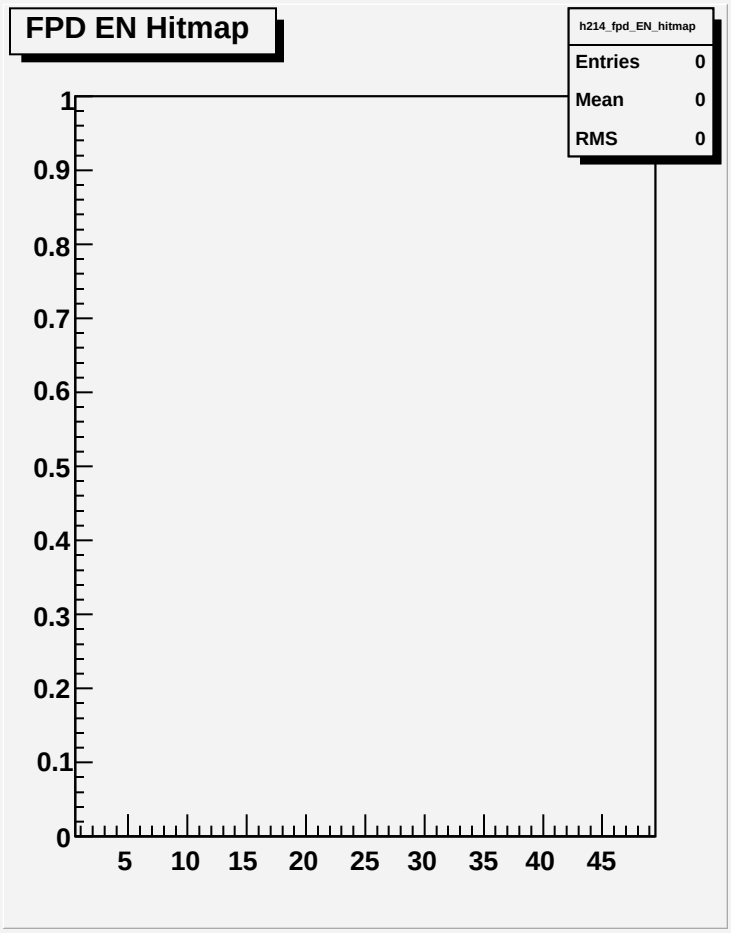
100
150
200
250


FPD WB AdcSum
h213_fpd_WB_adcsum
Entries 917
Mean 28.13
RMS 2.409
10^2
10
1
0
50
100
150
200
250


FPD EN Hitmap
h214_fpd_EN_hitmap
Entries 0
Mean 0
RMS 0
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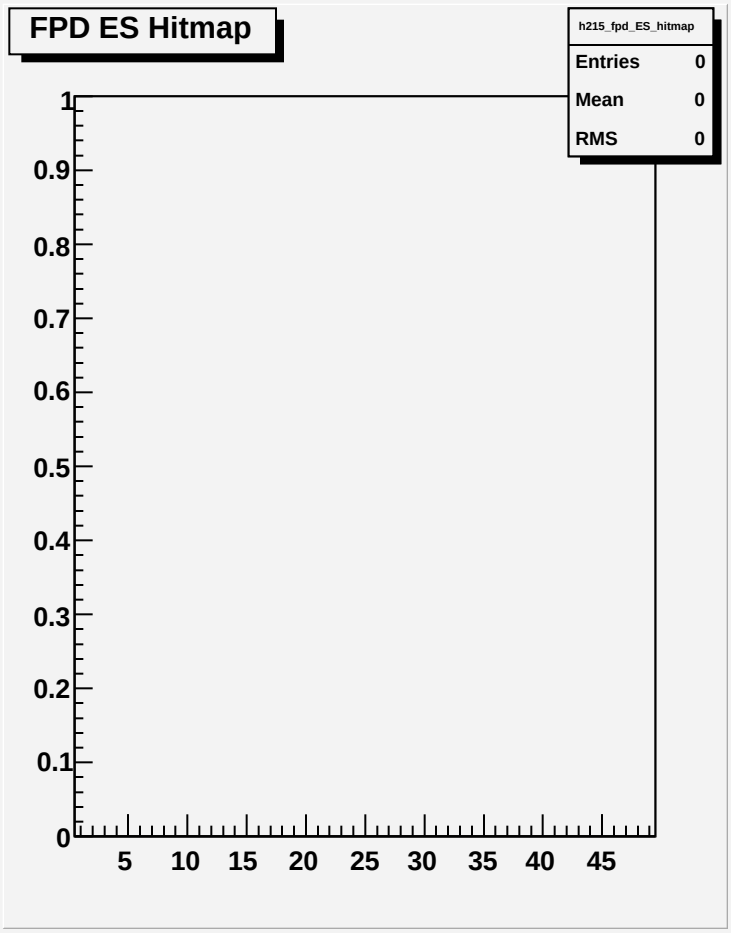
0.2
0.1
0
5 10 15 20 25 30 35 40 45


FPD ES Hitmap
h215_fpd_ES_hitmap
Entries 0
Mean 0
RMS 0
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0.1
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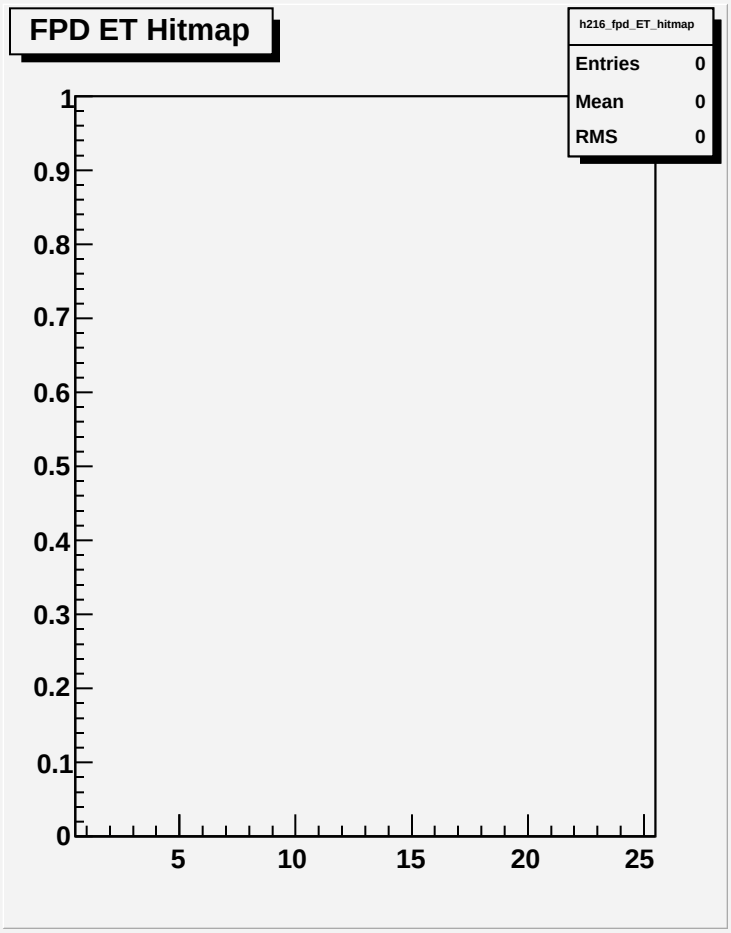
FPD ET Hitmap
h216_fpd_ET_hitmap
Entries 0
Mean 0
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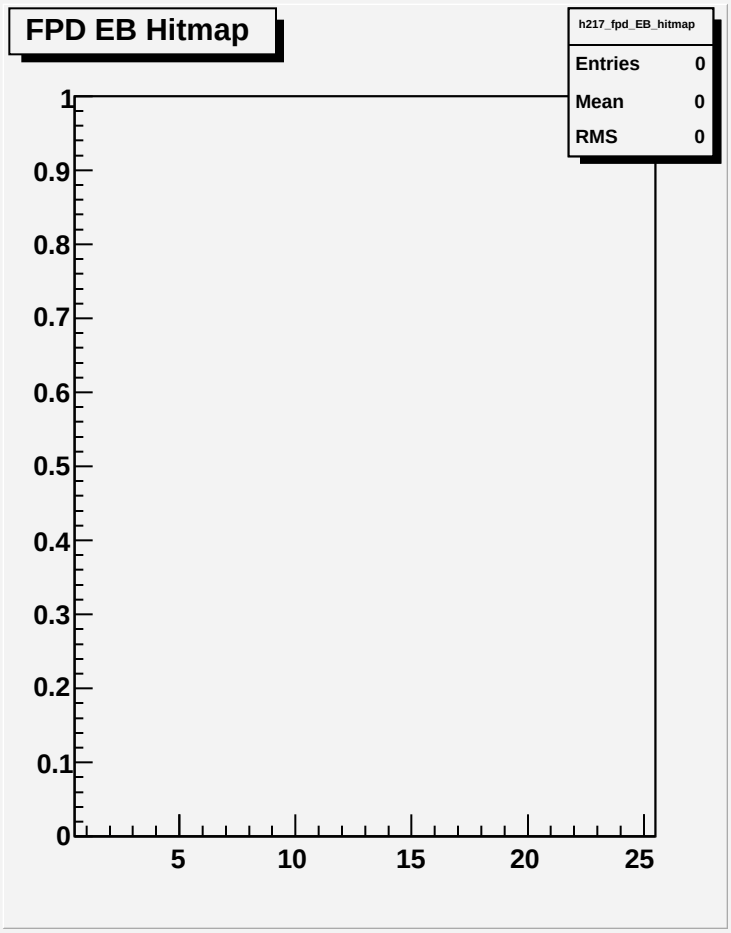
0
5 10 15 20 25


FPD EB Hitmap
h217_fpd_EB_hitmap
Entries 0
Mean 0
RMS 0
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0.5
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0.3
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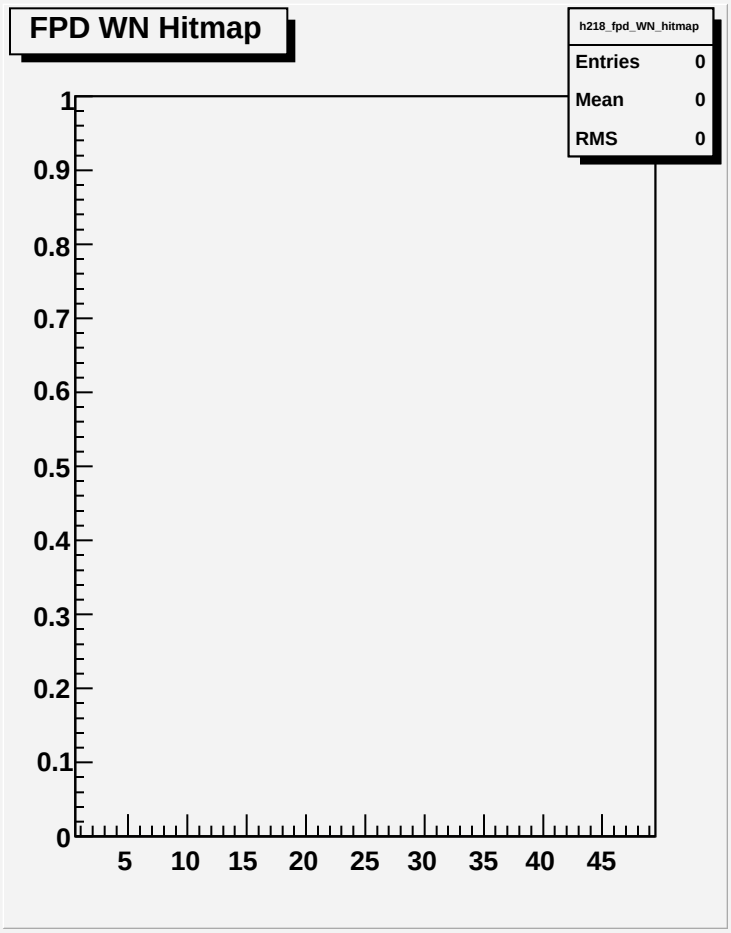
0.1
0
5 10 15 20 25


FPD WN Hitmap
h218_fpd_WN_hitmap
Entries 0
Mean 0
RMS 0
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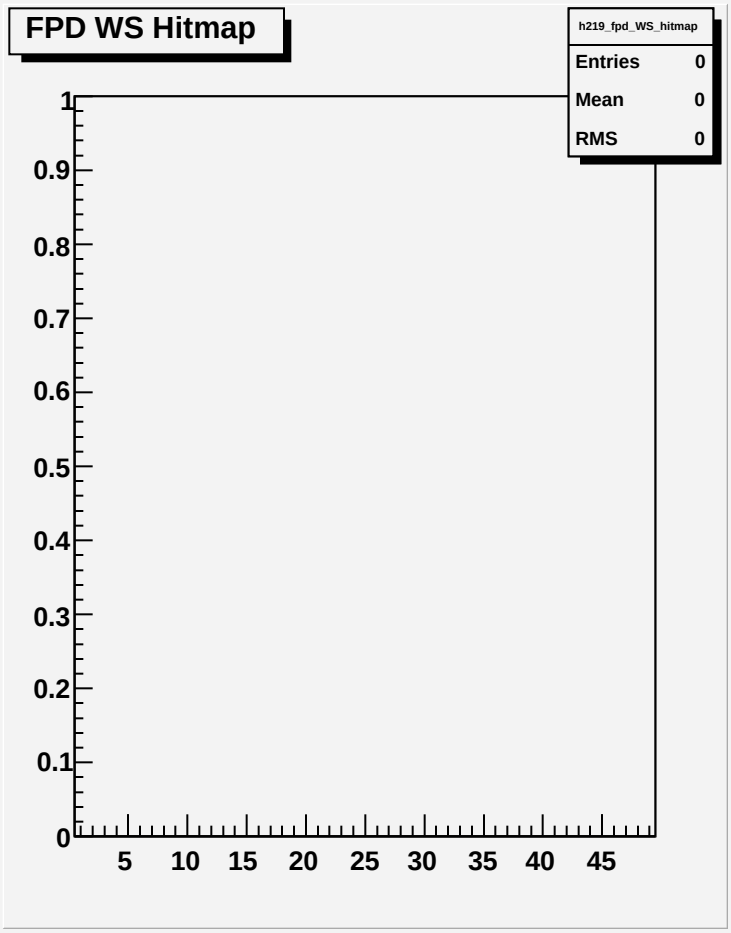
0.2
0.1
0
5 10 15 20 25 30 35 40 45


FPD WS Hitmap
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RMS 0
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0.1
0
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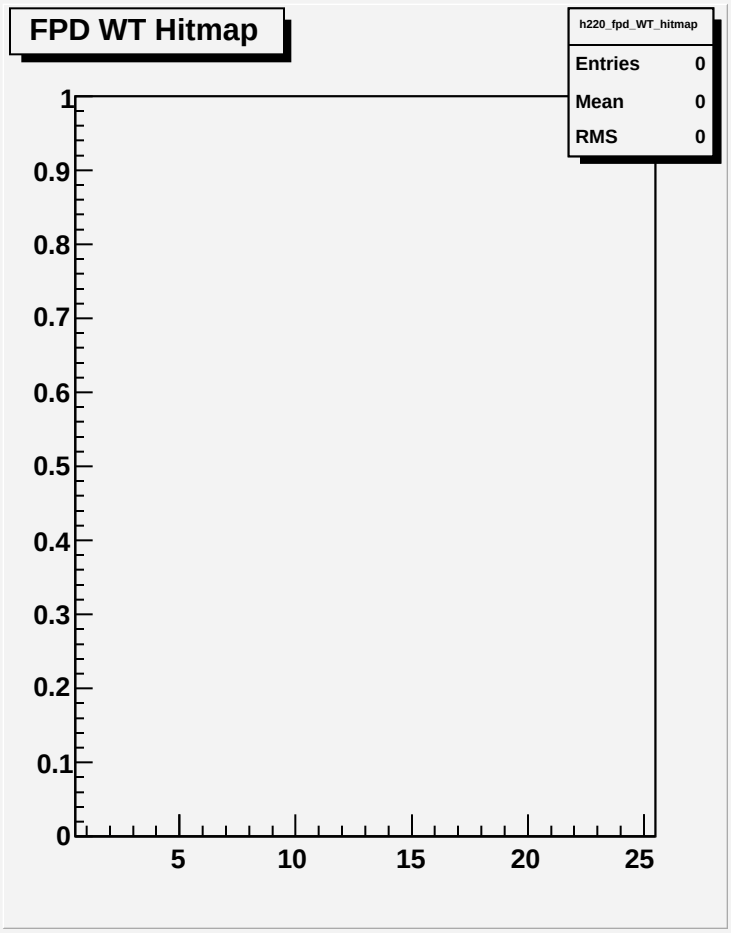
FPD WT Hitmap
h220_fpd_WT_hitmap
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Mean 0
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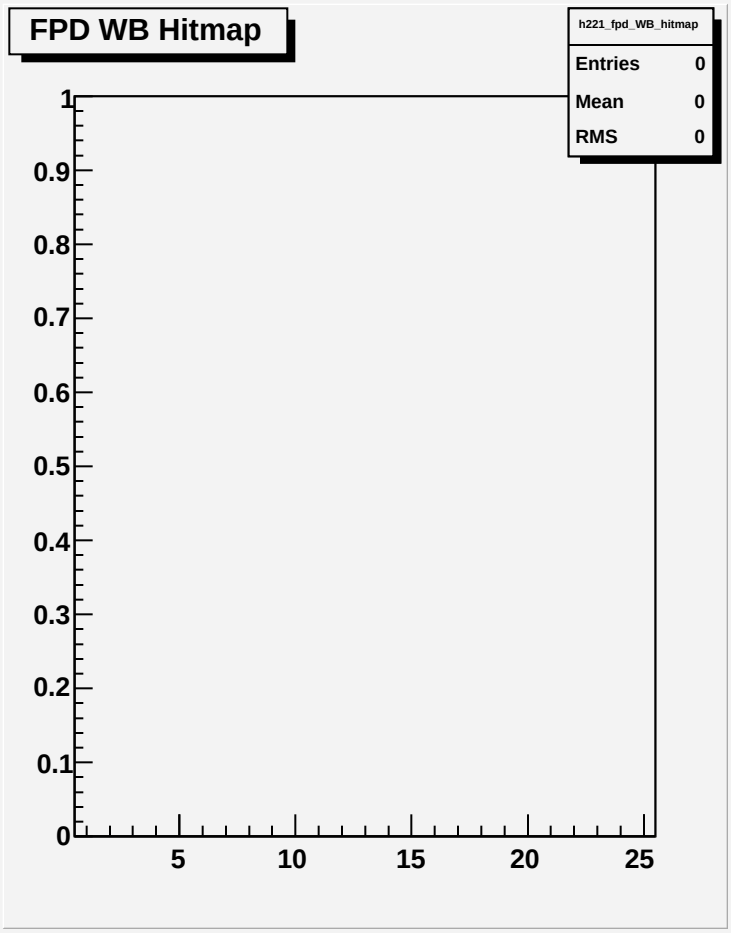
0.3
0.2
0.1
0
5 10 15 20 25


FPD WB Hitmap
h221_fpd_WB_hitmap
Entries 0
Mean 0
RMS 0
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0.7
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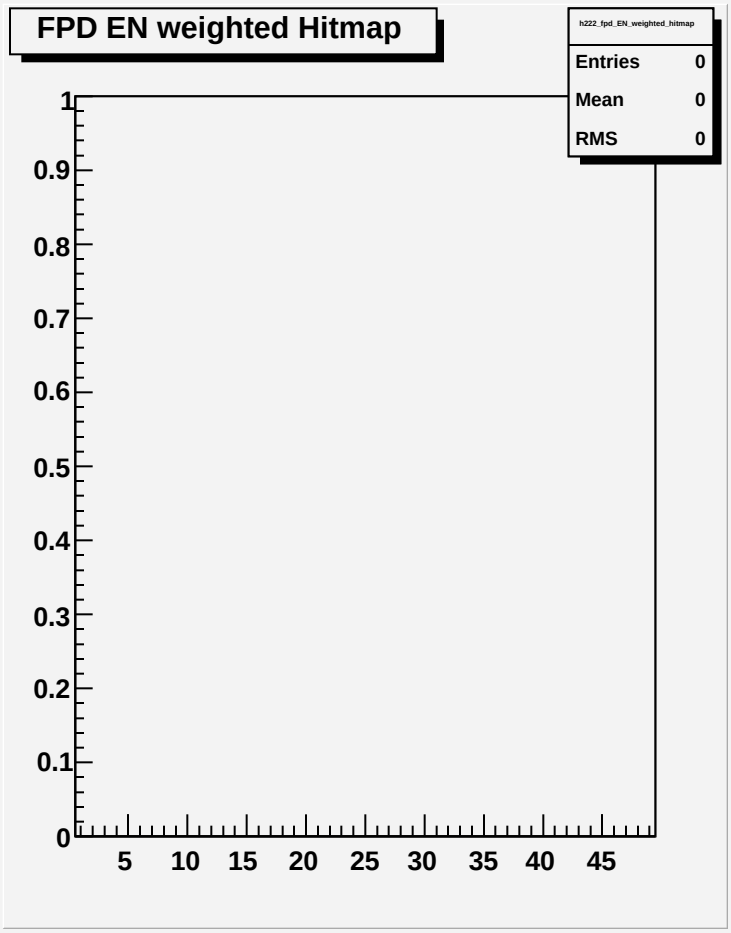
0.2
0.1
0
5 10 15 20 25


FPD EN weighted Hitmap
h222_fpd_EN_weighted_hitmap
Entries 0
Mean 0
RMS 0
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0.6
0.5
0.4
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0.2
0.1
0
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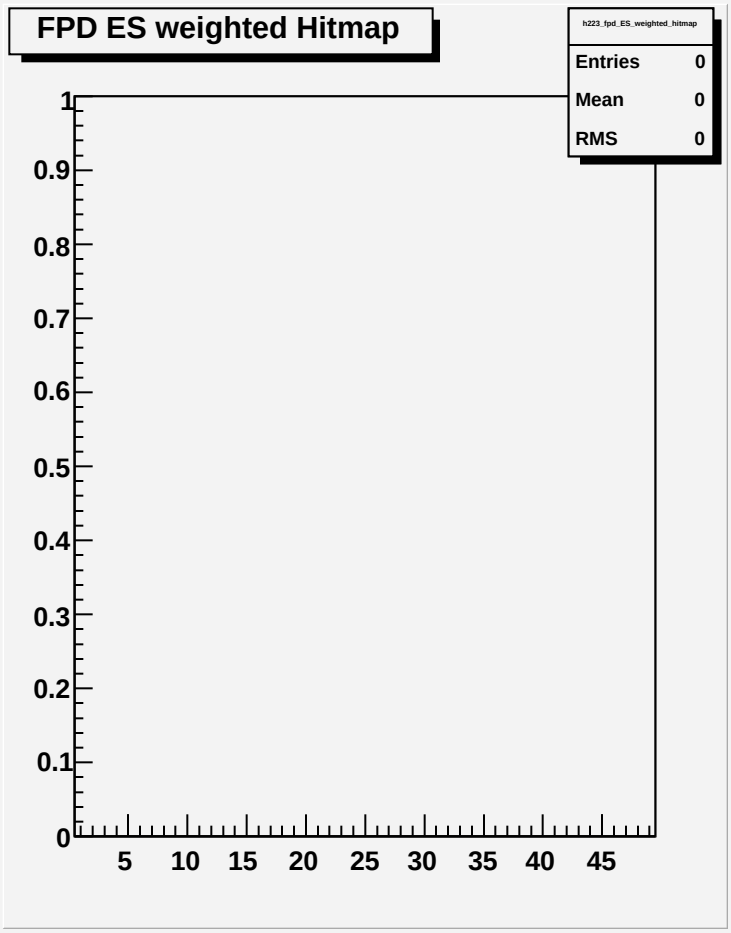
FPD ES weighted Hitmap
h223_fpd_ES_weighted_hitmap
Entries 0
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RMS 0
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0.6
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0.4
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0.2
0.1
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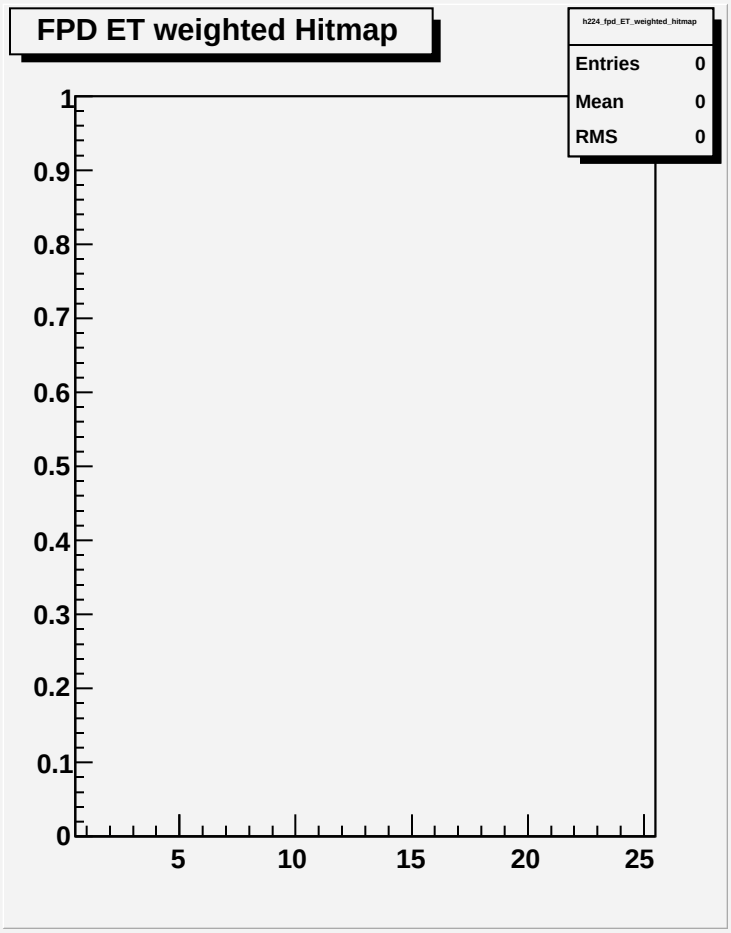
FPD ET weighted Hitmap
h224_fpd_ET_weighted_hitmap
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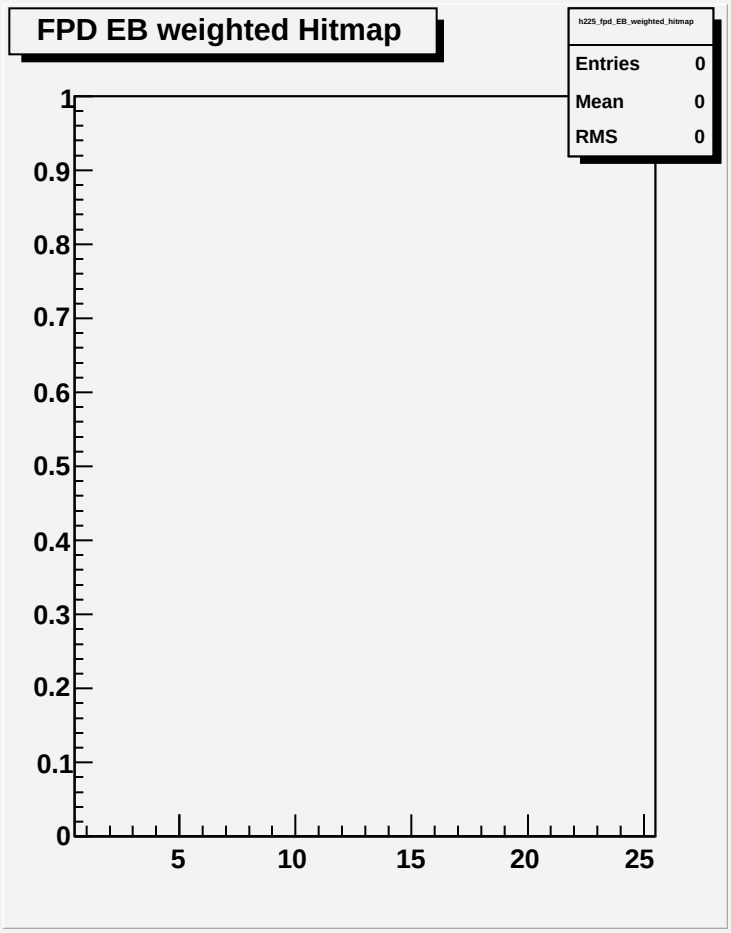
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25


FPD EB weighted Hitmap
h225_fpd_EB_weighted_hitmap
Entries 0
Mean 0
RMS 0
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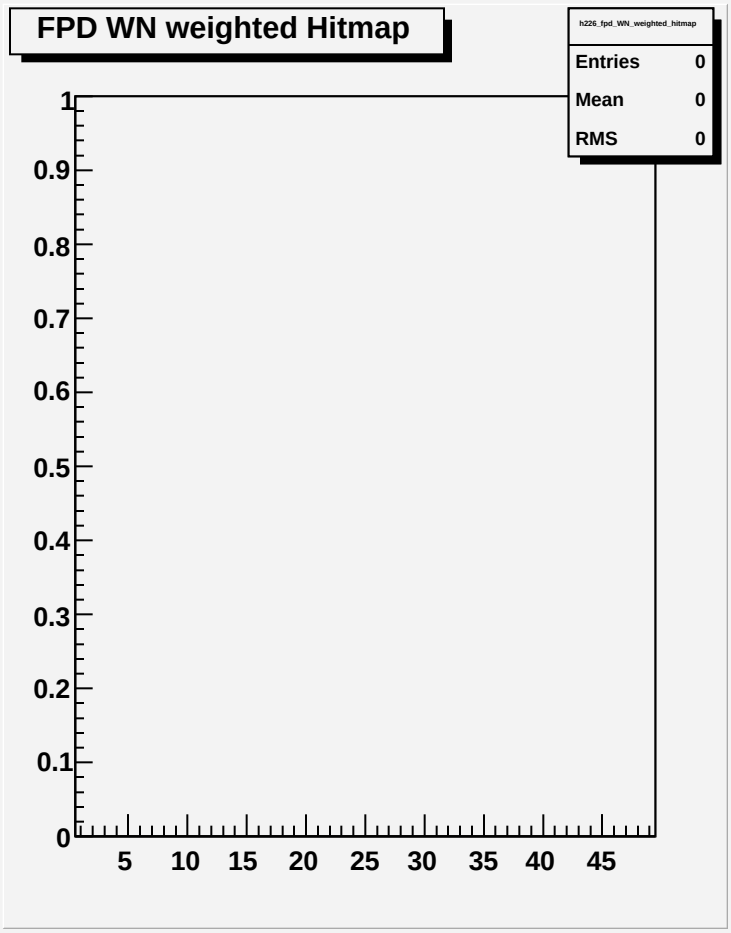
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25


FPD WN weighted Hitmap
h226_fpd_WN_weighted_hitmap
Entries 0
Mean 0
RMS 0
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0.6
0.5
0.4
0.3
0.2
0.1
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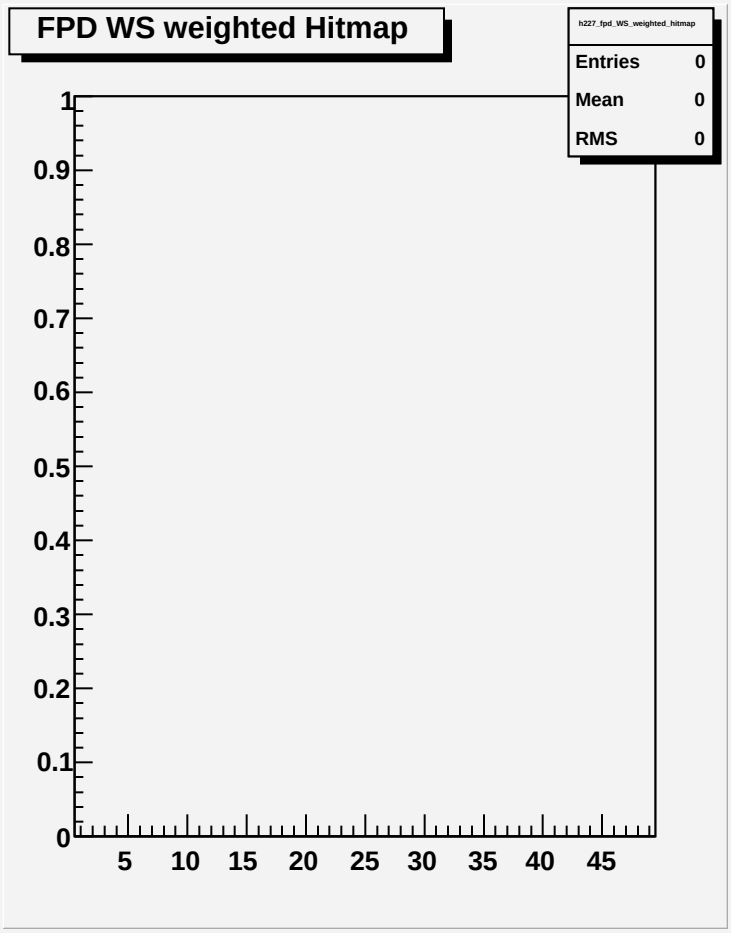
5 10 15 20 25 30 35 40 45


FPD WS weighted Hitmap
h227_fpd_WS_weighted_hitmap
Entries 0
Mean 0
RMS 0
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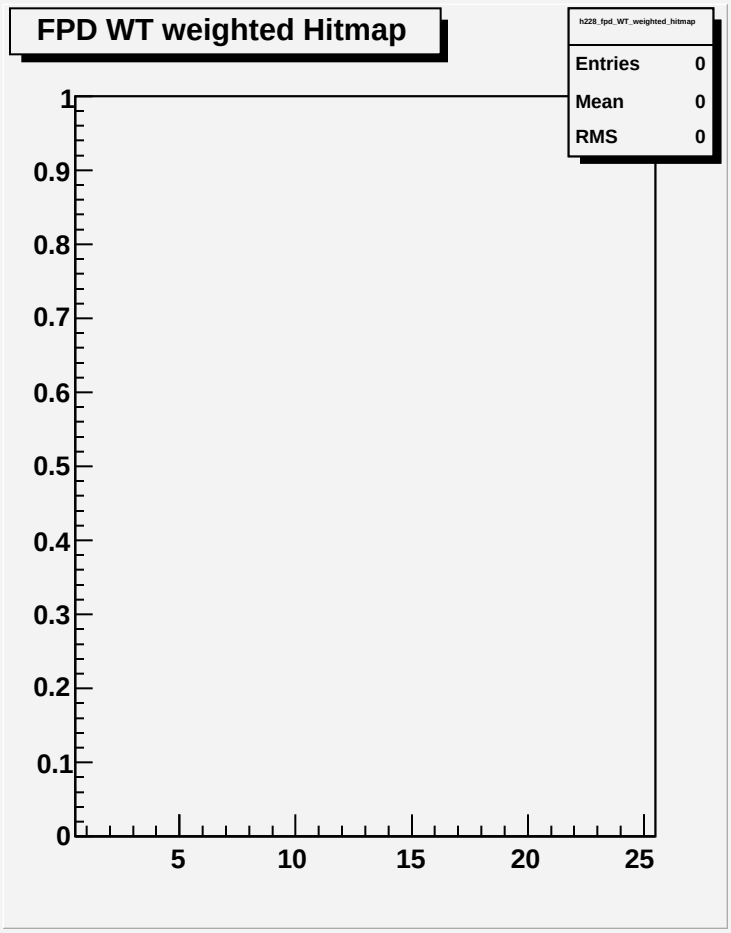
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25 30 35 40 45


FPD WT weighted Hitmap
h228_fpd_WT_weighted_hitmap
Entries 0
Mean 0
RMS 0
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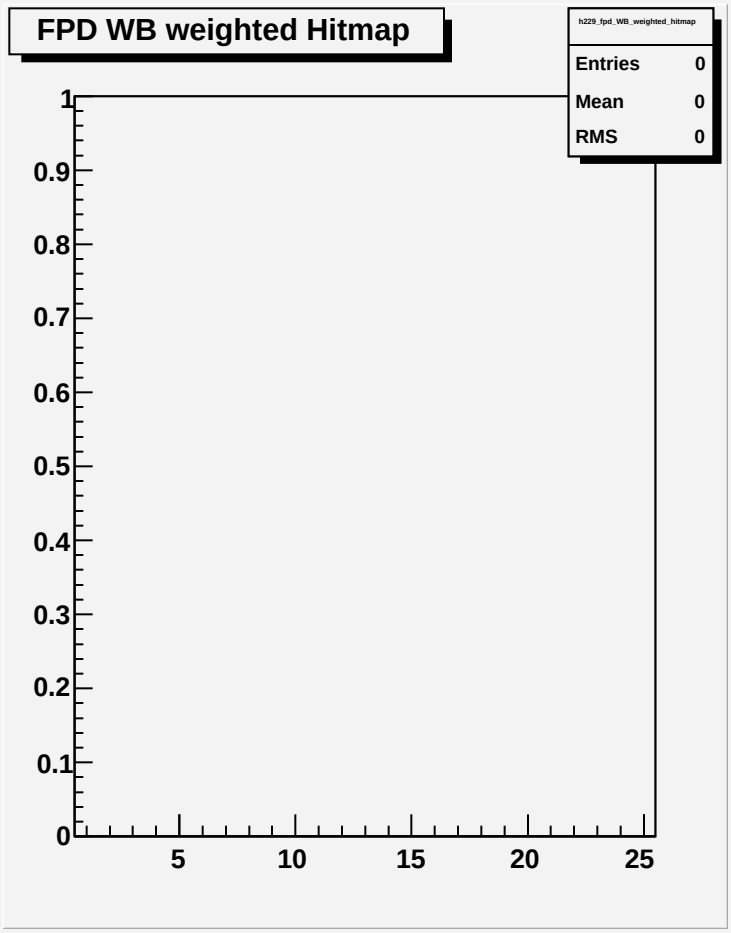
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25


FPD WB weighted Hitmap
h229_fpd_WB_weighted_hitmap
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Mean 0
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0.7
0.6
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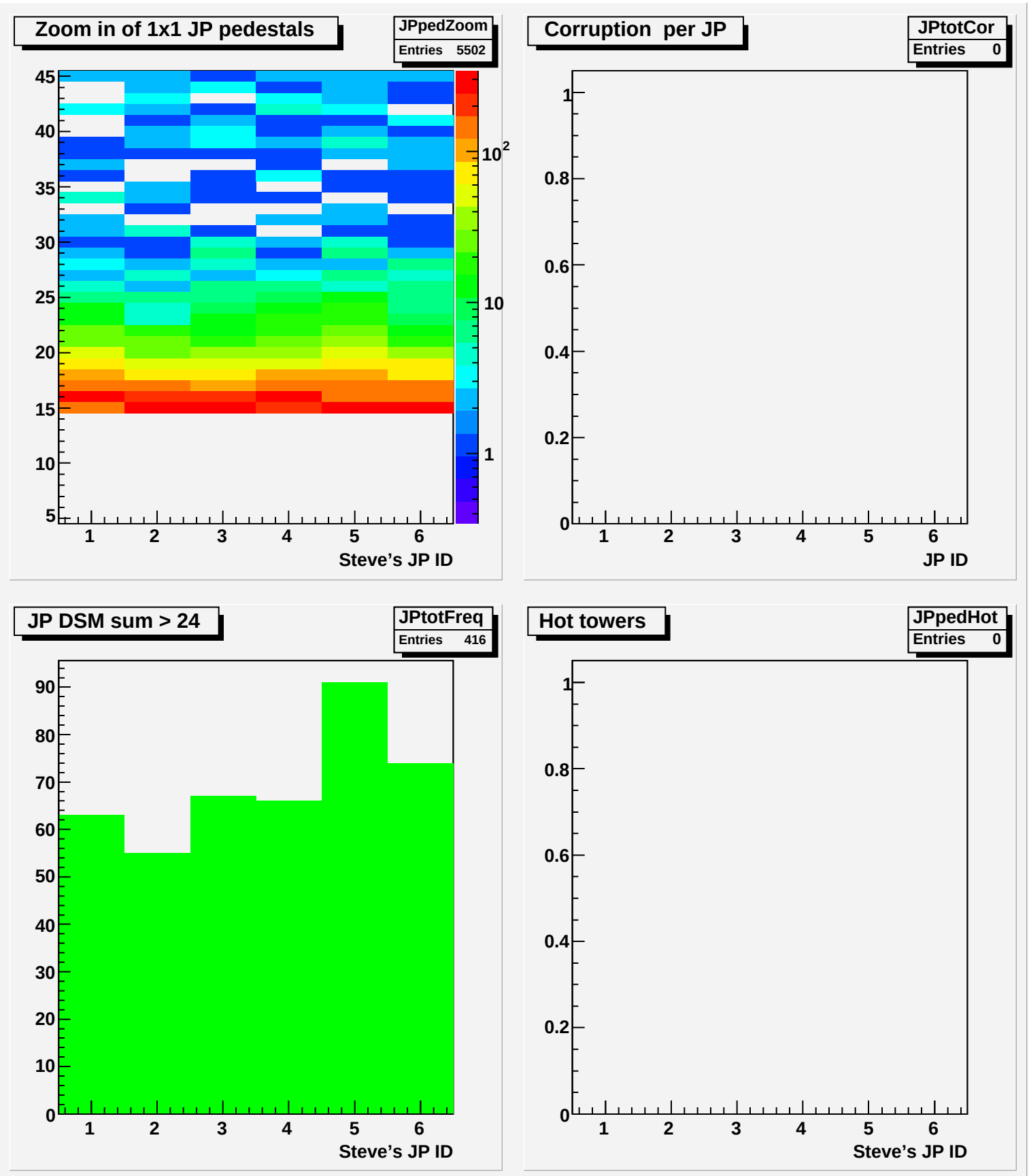
0.1
0
5 10 15 20 25



ETOW masked (cr-ch-name): 1-97-12TC05, 4-117-07TC05, 4-18-06TA03, 1-40-12TD01,

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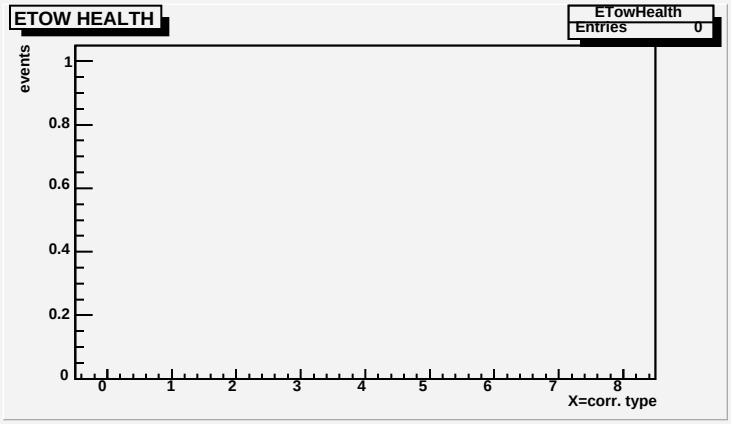
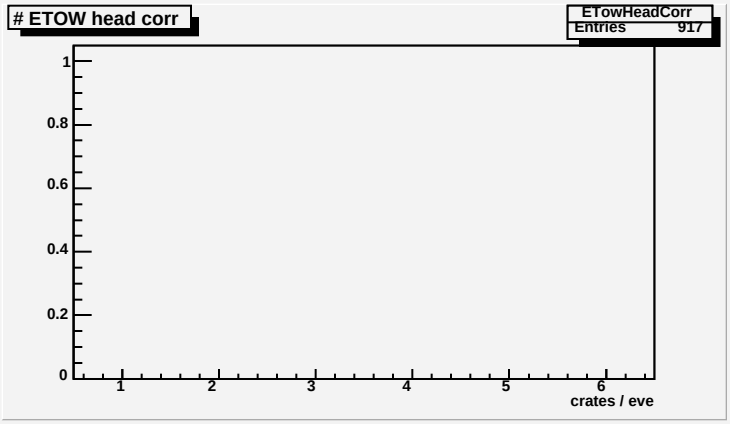
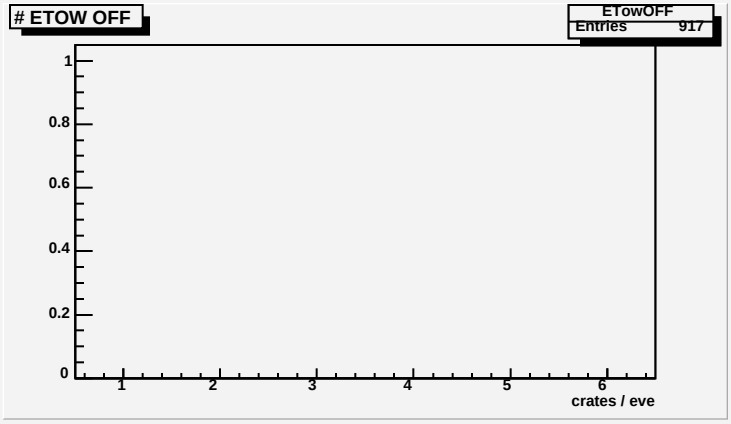

ETOW HEALTH
ETowHealth
Entries 0
events
X=corr. type


ETOW head corr
ETowHeadCorr
Entries 917
crates / eve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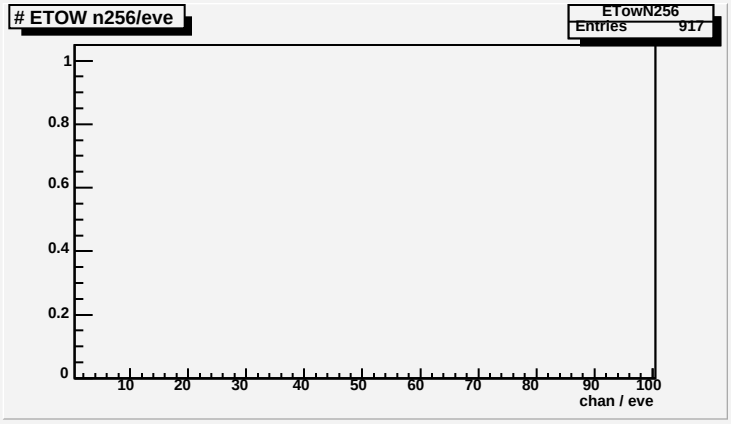
ETowOFF
Entries 917
crates / eve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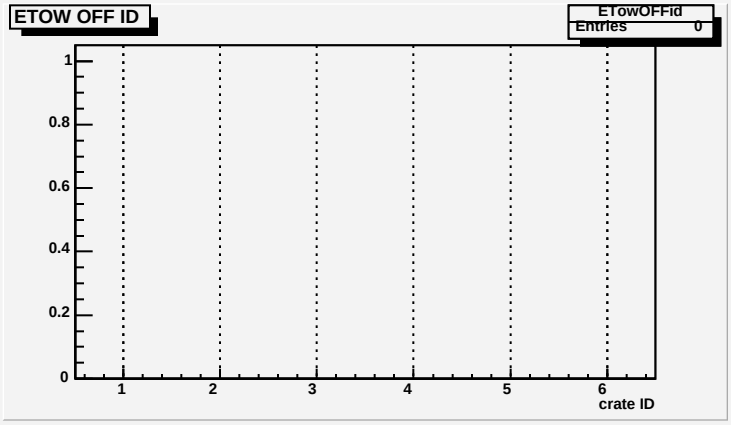
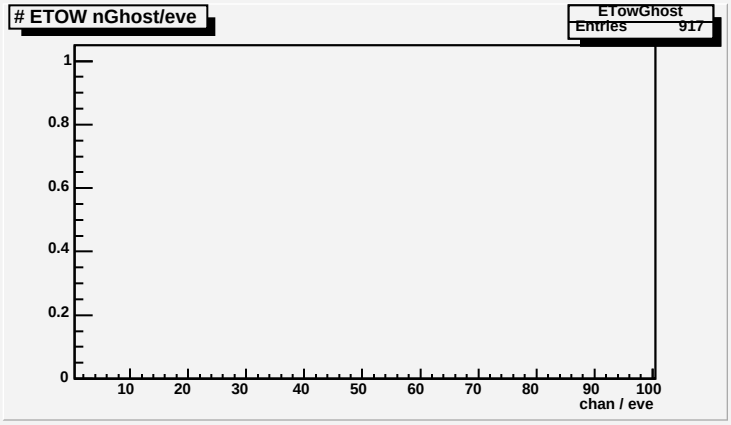
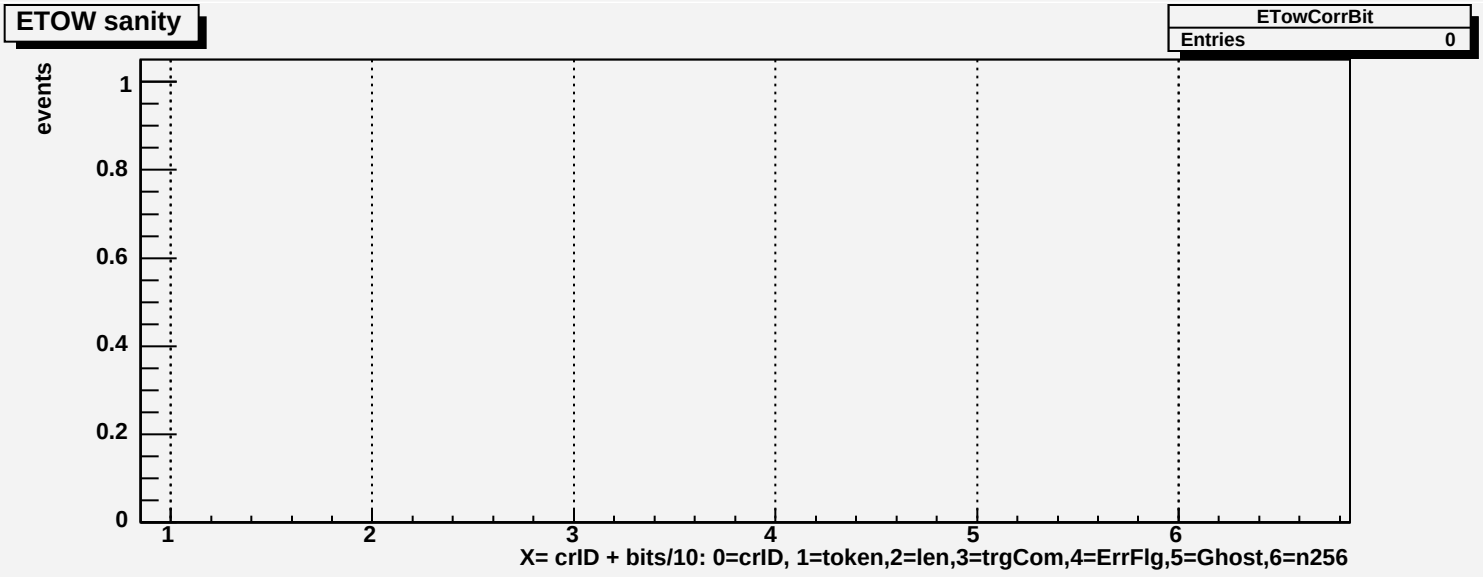
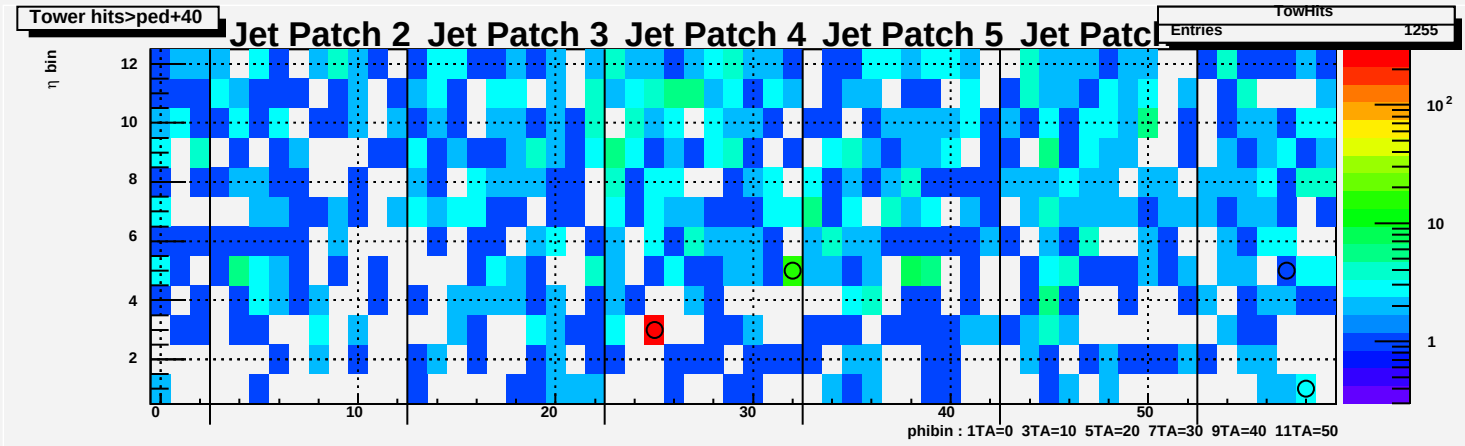
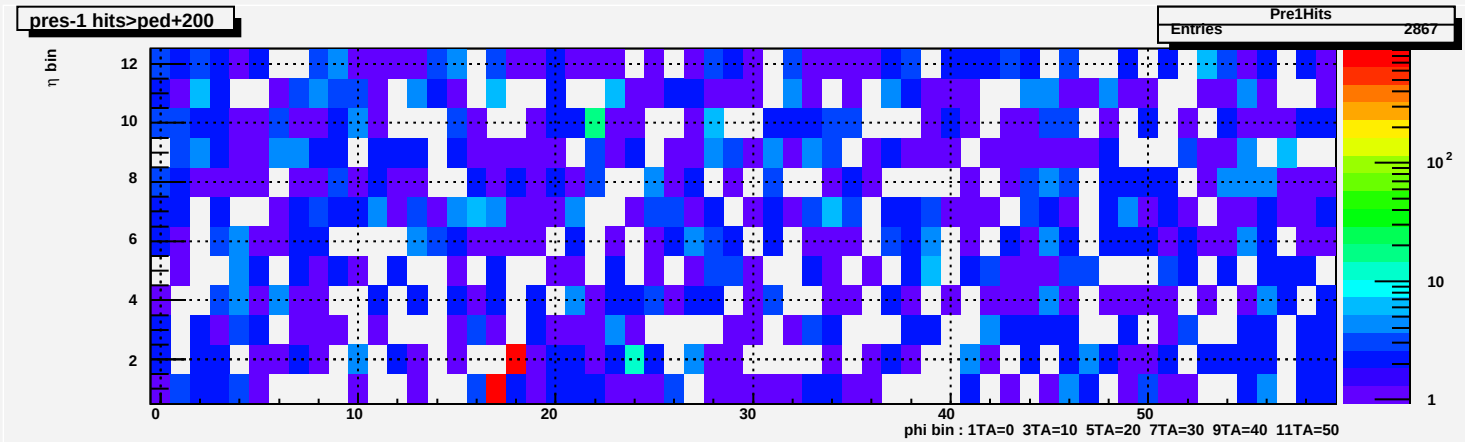
ETowN256
Entries 917
chan / eve

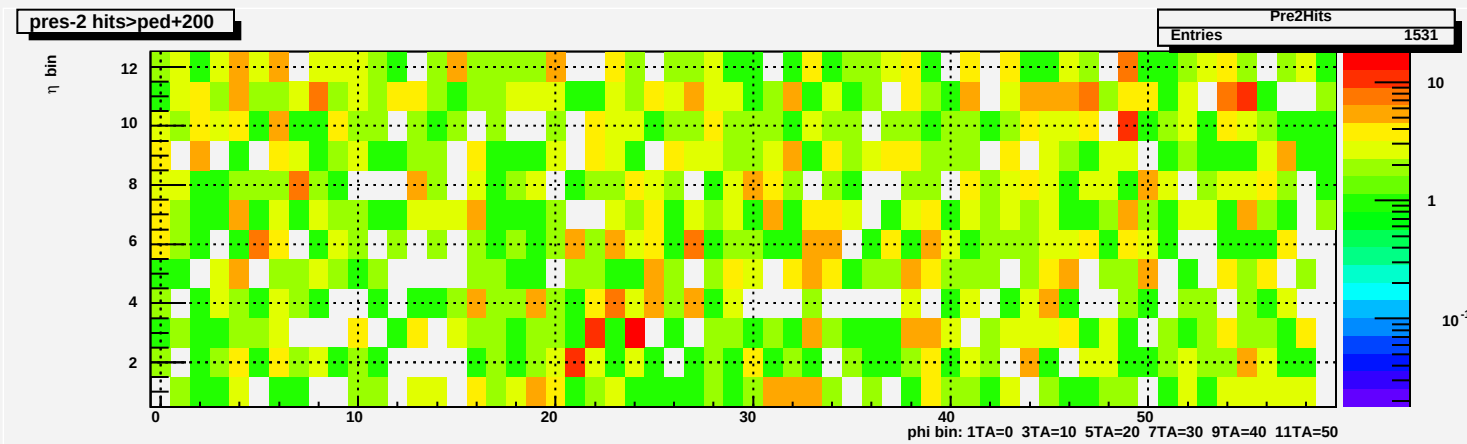

ETOW OFF ID
ETowOFFid
Entries 0
crate ID

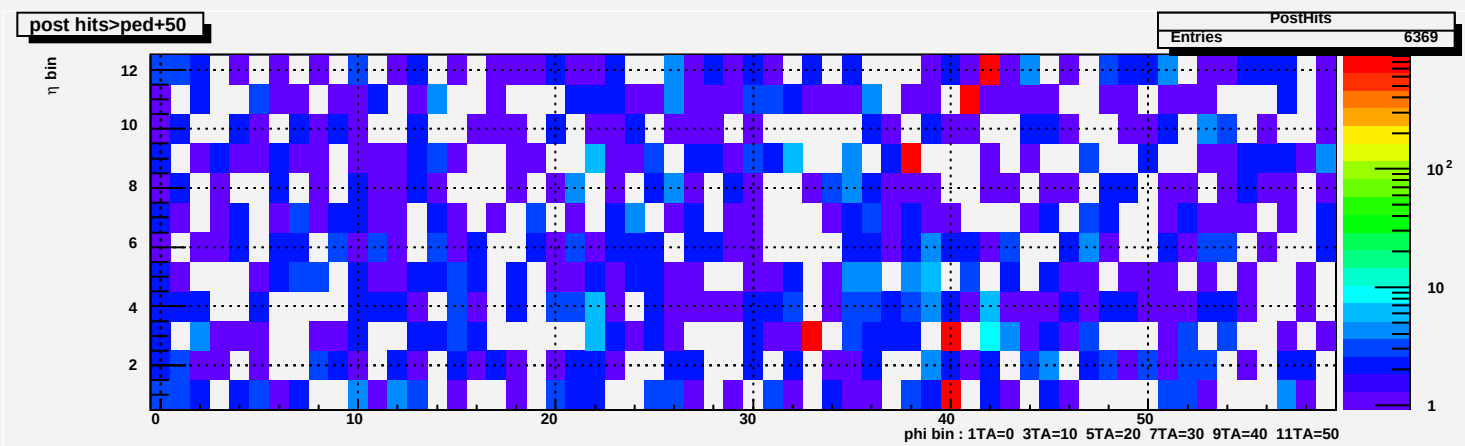

ETOW nGhost/eve
ETowGhost
Entries 917
chan / eve

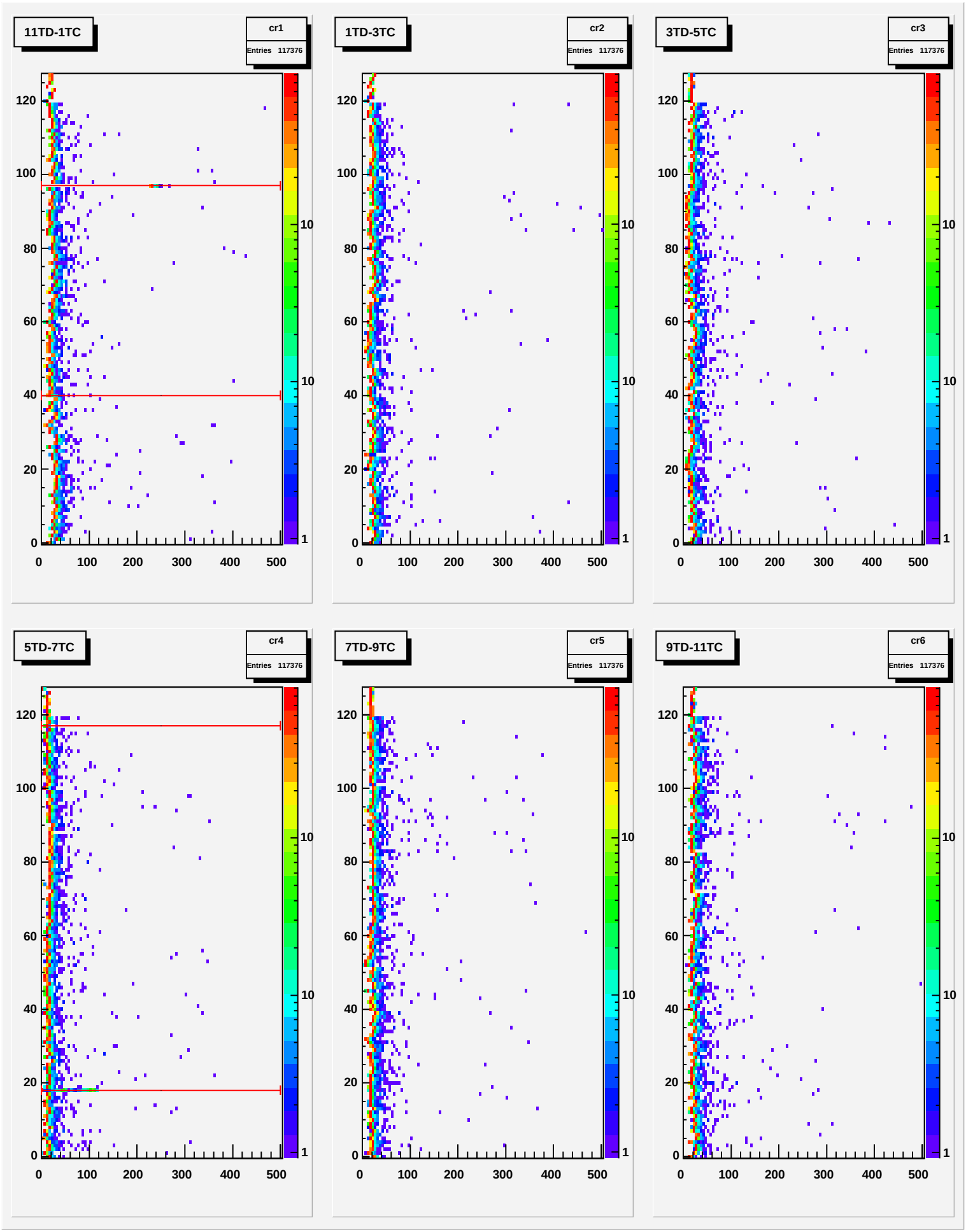

ETOW sanity
ETowCorrBit
Entries 0
events
X= crID + bits/10: 0=crID, 1=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

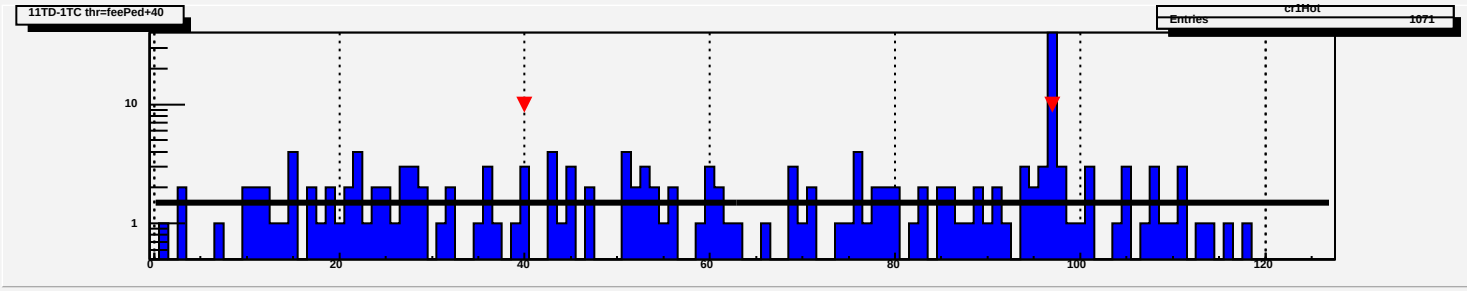

Tower hits>ped+40
Jet Patch 2 Jet Patch 3 Jet Patch 4 Jet Patch 5 Jet Patc
TowHits
Entries 1255
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

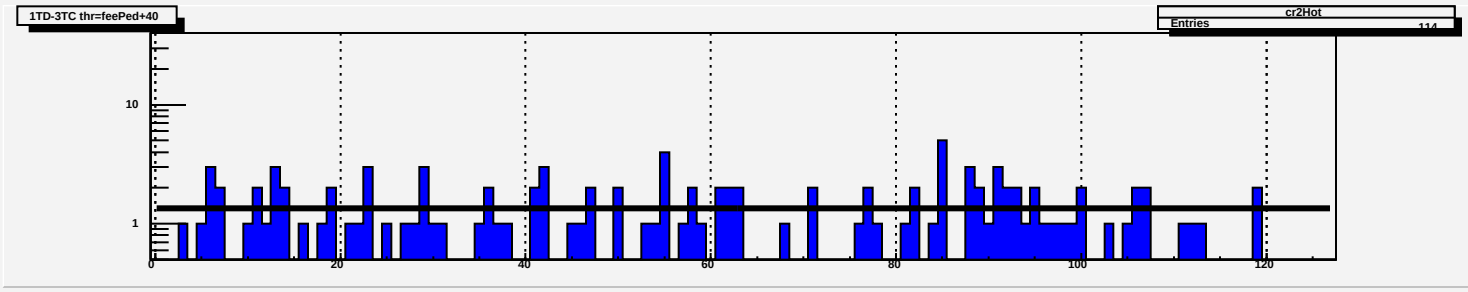

pres-1 hits>ped+200
Pre1Hits
Entries 2867
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

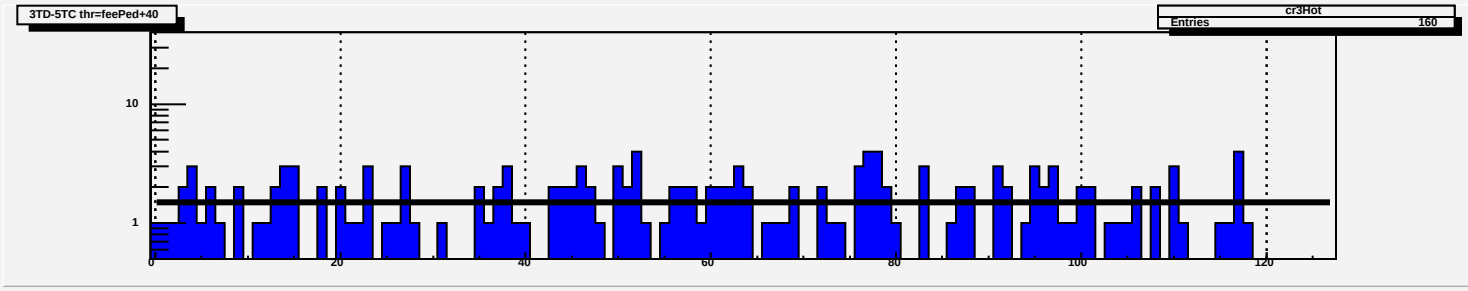

pres-2 hits>ped+200
Pre2Hits
Entries 1531
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

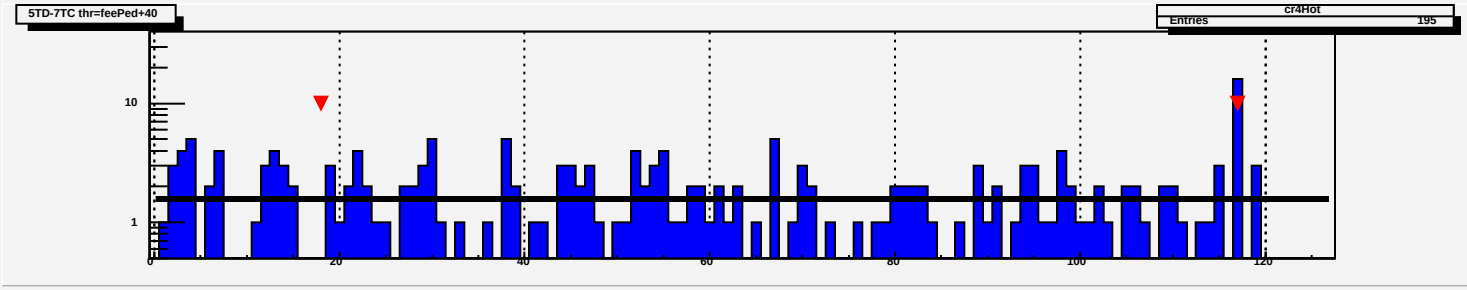

post hits>ped+50
PostHits
Entries 6369
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

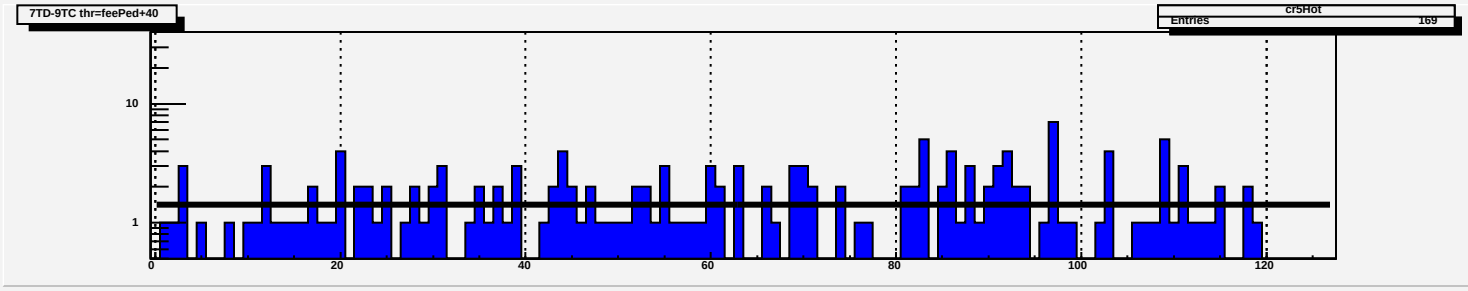

11TD-1TC
cr1
Entries 117376
1TD-3TC
cr2
Entries 117376
3TD-5TC
cr3
Entries 117376
5TD-7TC
cr4
Entries 117376
7TD-9TC
cr5
Entries 117376
9TD-11TC
cr6
Entries 117376
0
20
40
60
80
100
120
0
100
200
300
400
500
1
10
10

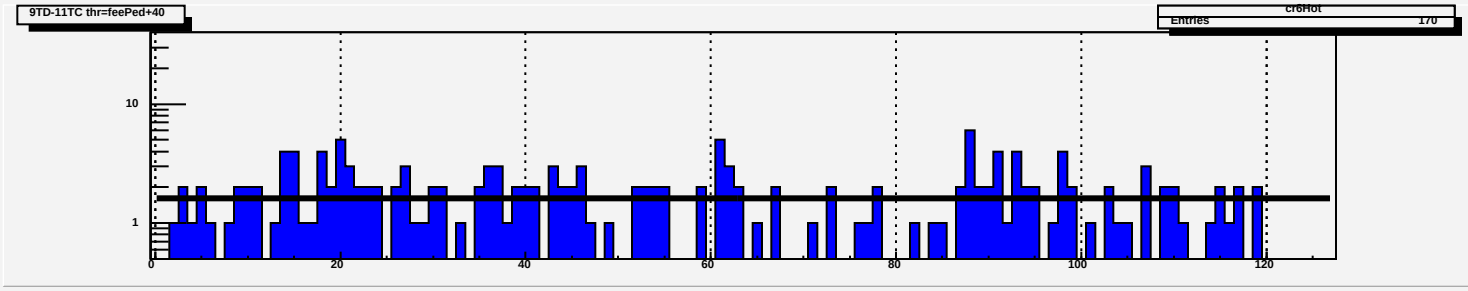

11TD-1TC thr=feePed+40
cr1Hot
Entries 1071
10
1
0
20
40
60
80
100
120

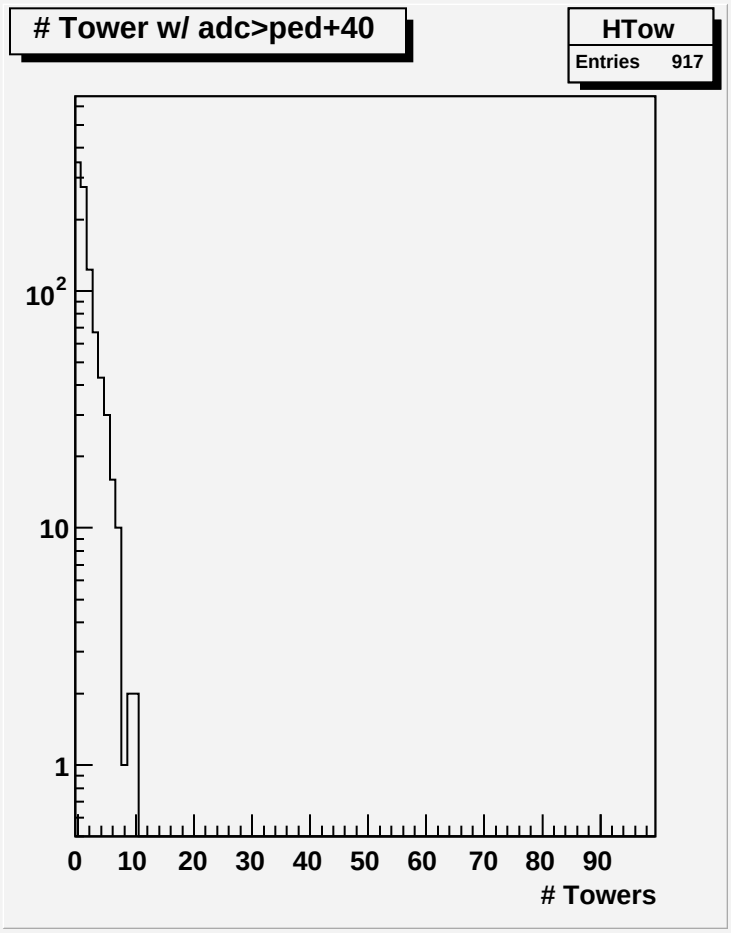

1TD-3TC thr=feePed+40
cr2Hot
Entries 114
10
1
0
20
40
60
80
100
120

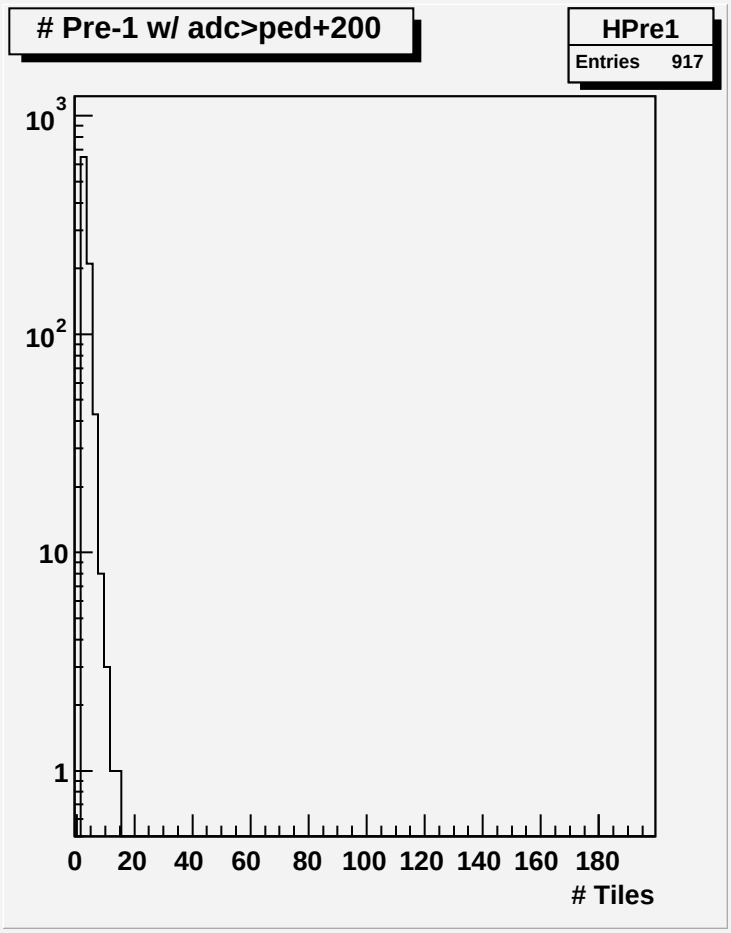

3TD-5TC thr=feePed+40
cr3Hot
Entries 160
10
1
0
20
40
60
80
100
120

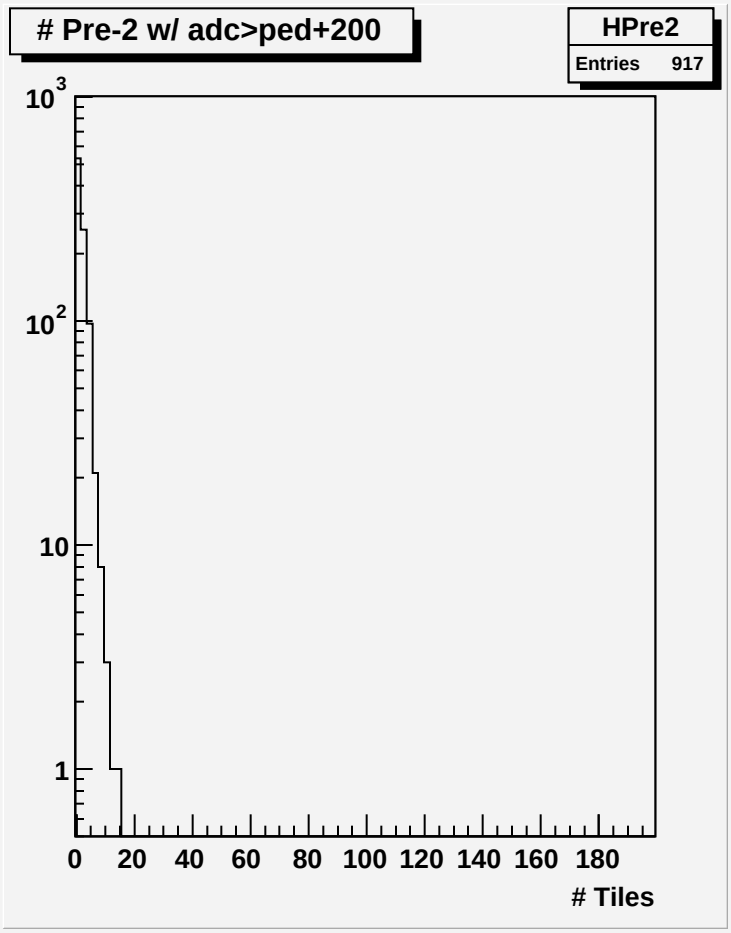

5TD-7TC thr=feePed+40
cr4Hot
Entries 195
10
1
0
20
40
60
80
100
120

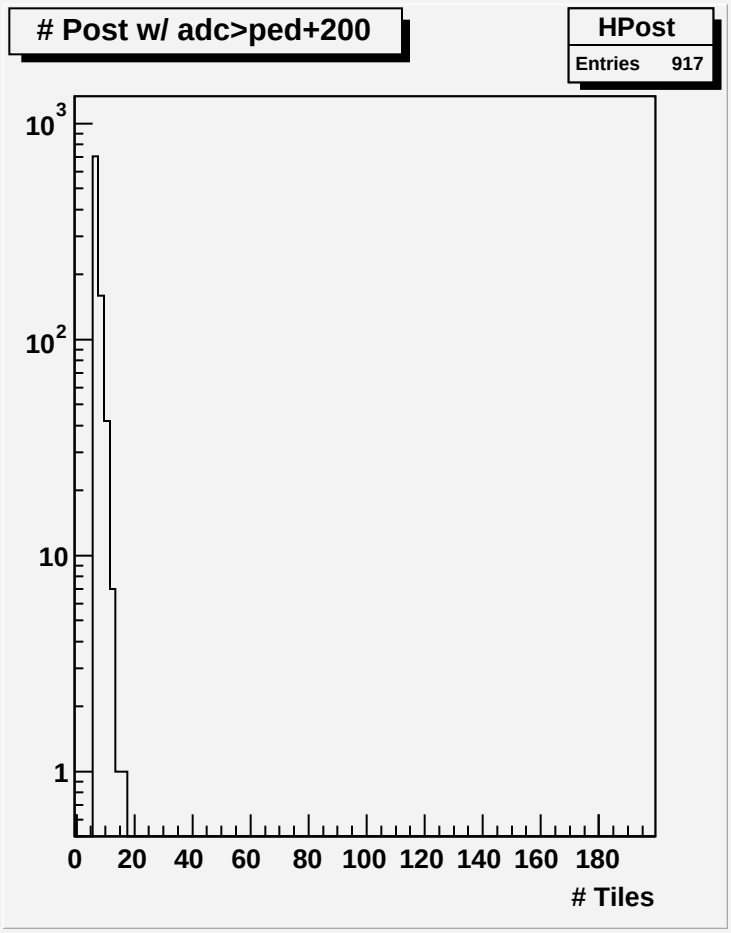

7TD-9TC thr=feePed+40
cr5Hot
Entries 169
10
1
0
20
40
60
80
100
120


9TD-11TC thr=feePed+40
cr6Hot
Entries 170
10
1
0
20
40
60
80
100
120

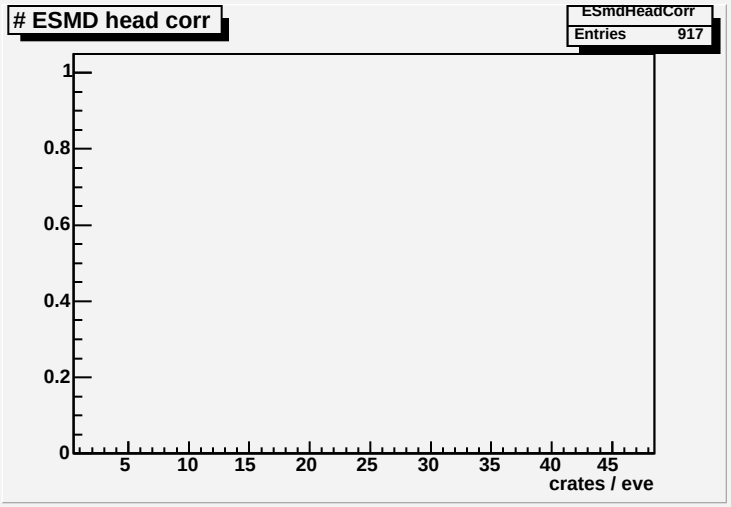

Tower w/ adc>ped+40
HTow
Entries 917
10^2
10
1
0 10 20 30 40 50 60 70 80 90
Towers

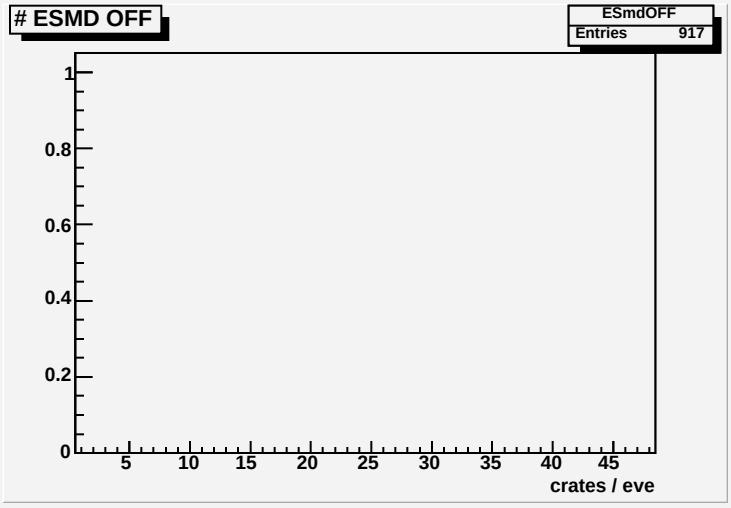

Pre-1 w/ adc>ped+200
HPre1
Entries 917
10^3
10^2
10
1
0 20 40 60 80 100 120 140 160 180
Tiles

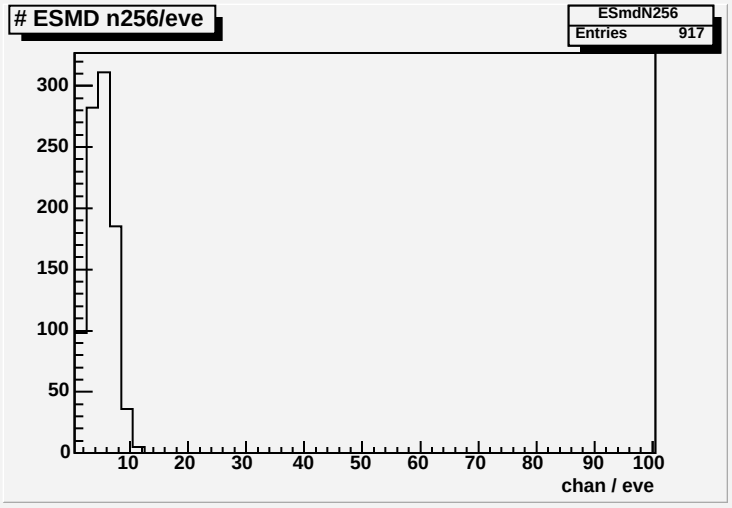

Pre-2 w/ adc>ped+200
HPre2
Entries 917
10^3
10^2
10
1
0 20 40 60 80 100 120 140 160 180
Tiles

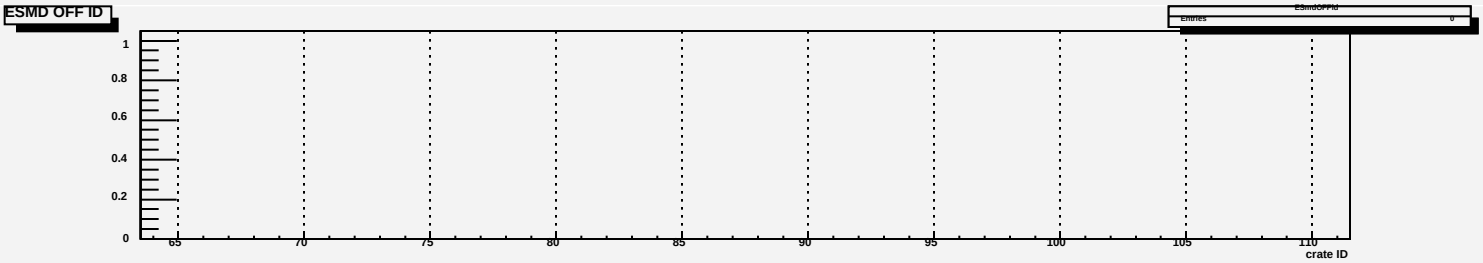

Post w/ adc>ped+200
HPost
Entries 917
10^3
10^2
10
1
0 20 40 60 80 100 120 140 160 180
Tiles

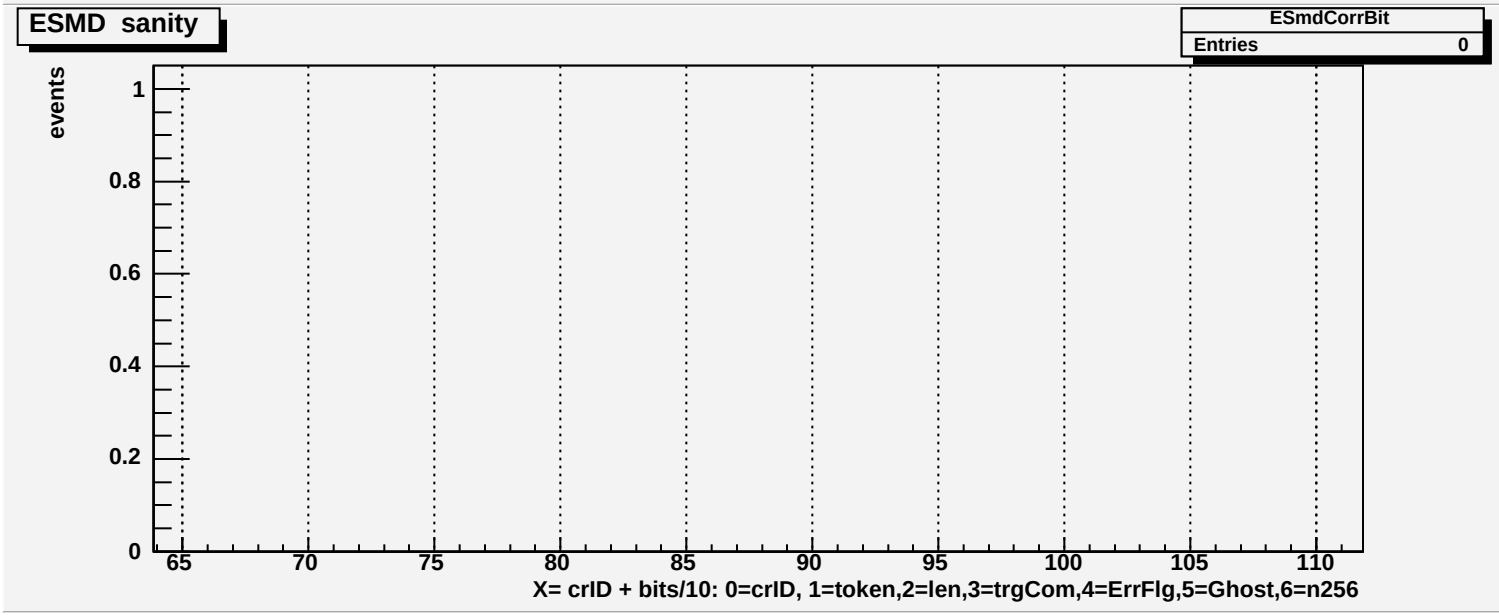
ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

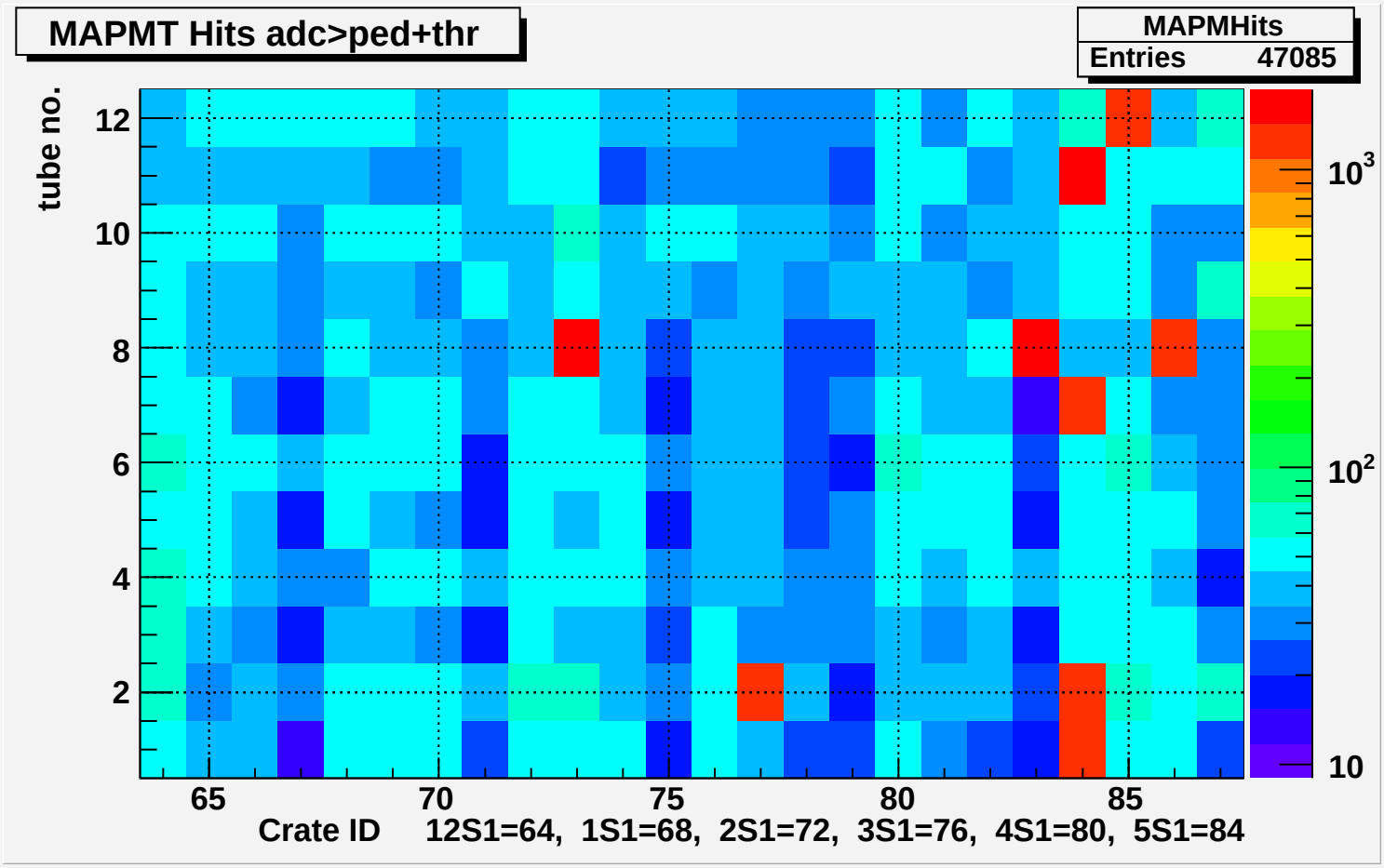

ESMD head corr
ESmdHeadCorr
Entries 917
crates / eve

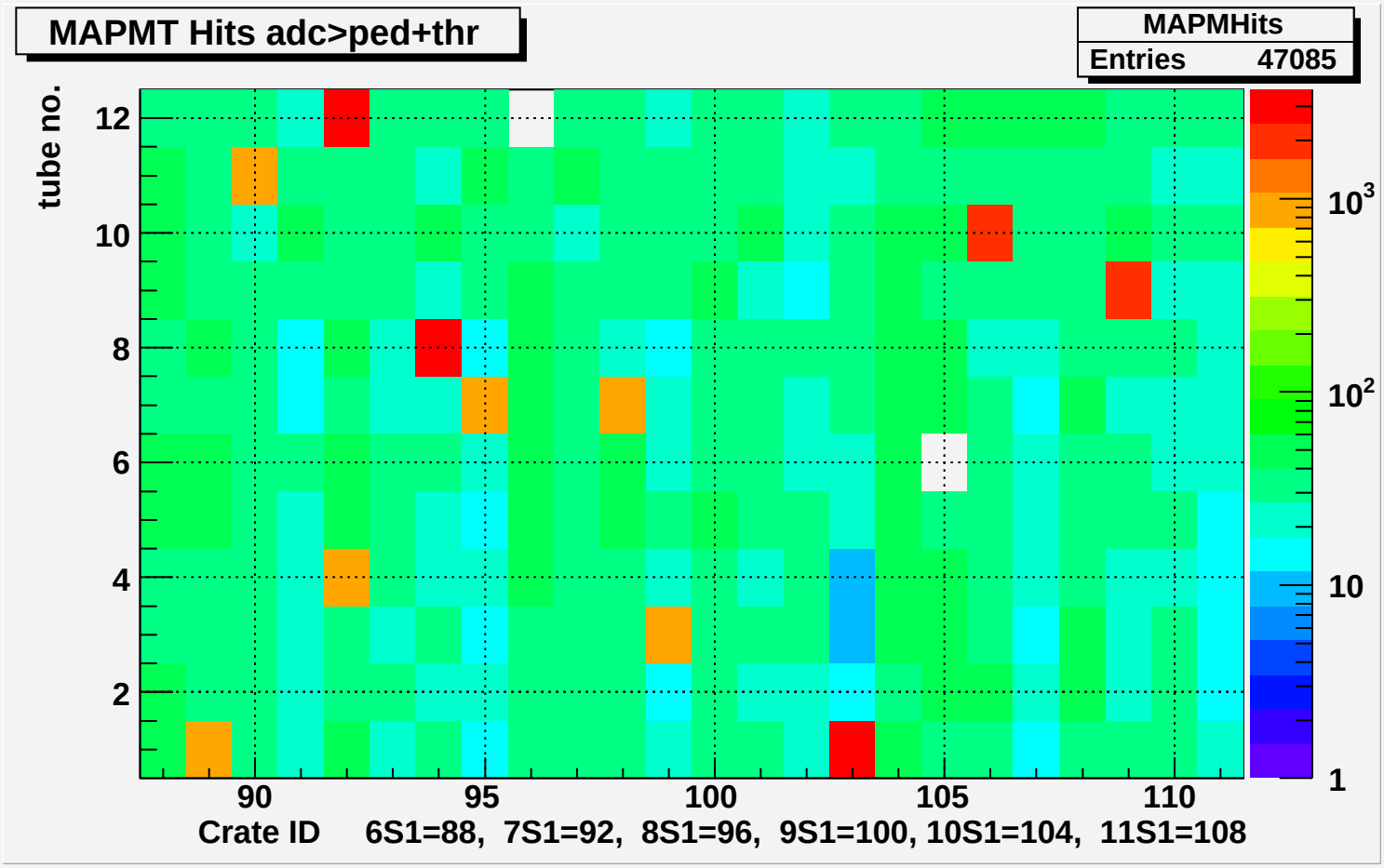

ESMD OFF
ESmdOFF
Entries 917
crates / eve

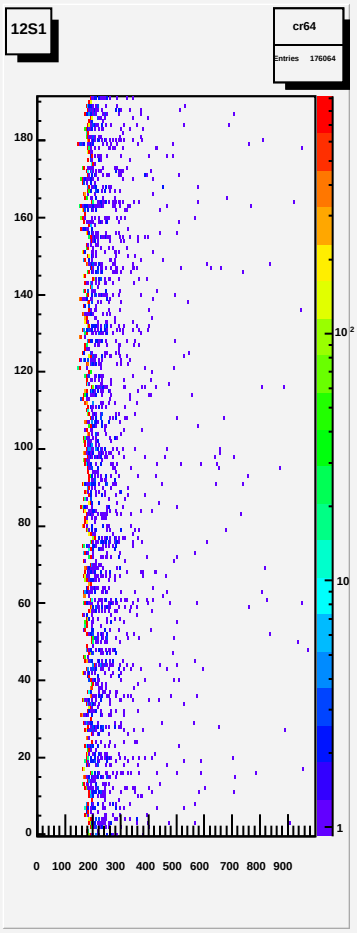

ESMD n256/eve
ESmdN256
Entries 917
chan / eve

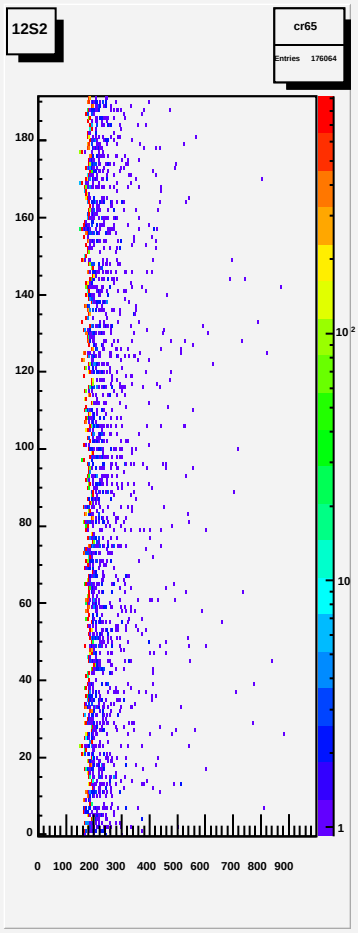

ESMD OFF ID
crate ID

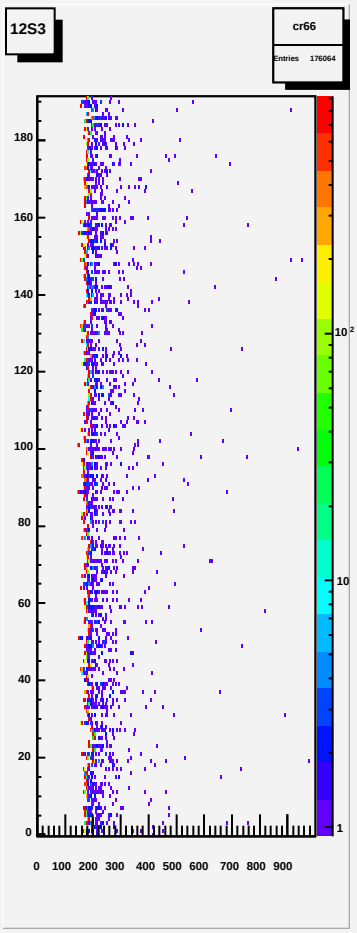

ESMD sanity
ESmdCorrBit
Entries 0
events
X= crID + bits/10: 0=crID, 1=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

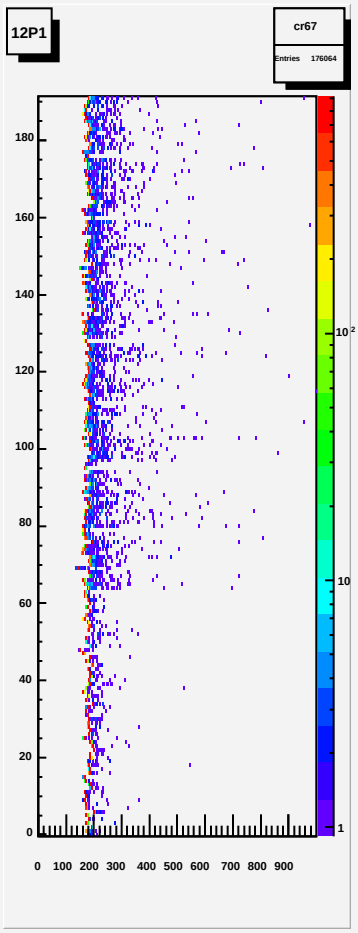

MAPMT Hits adc>ped+thr
MAPMHits
Entries 47085
tube no.
12
10
8
6
4
2
65
70
75
80
85
Crate ID 12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
10^3
10^2
10

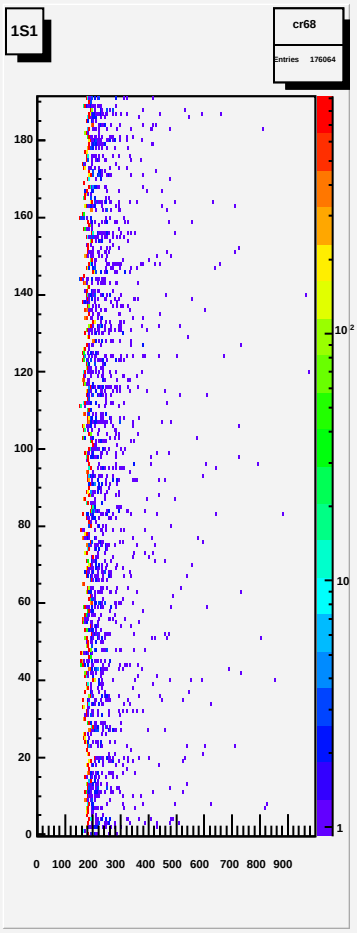

MAPMT Hits adc>ped+thr
MAPMHits
Entries 47085
tube no.
12
10
8
6
4
2
90
95
100
105
110
Crate ID 6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
10^3
10^2
10
1

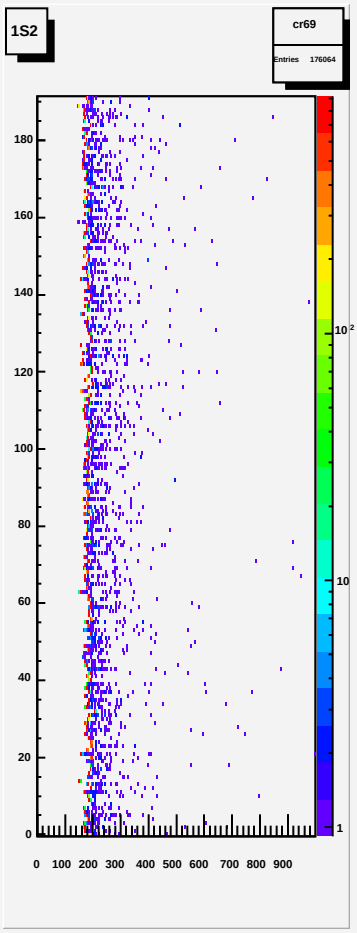

12S1
cr64
Entries 176064

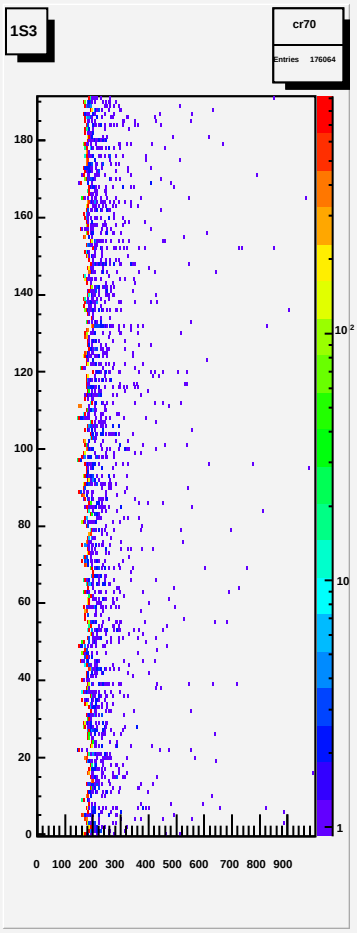

12S2
cr65
Entries 176064

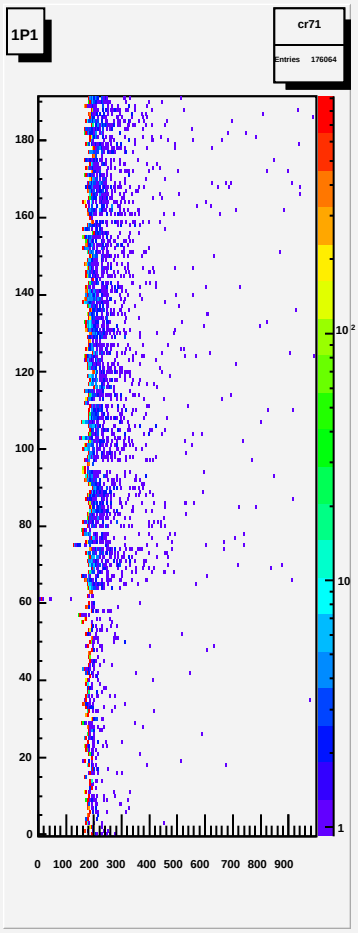

12S3
cr66
Entries 176064

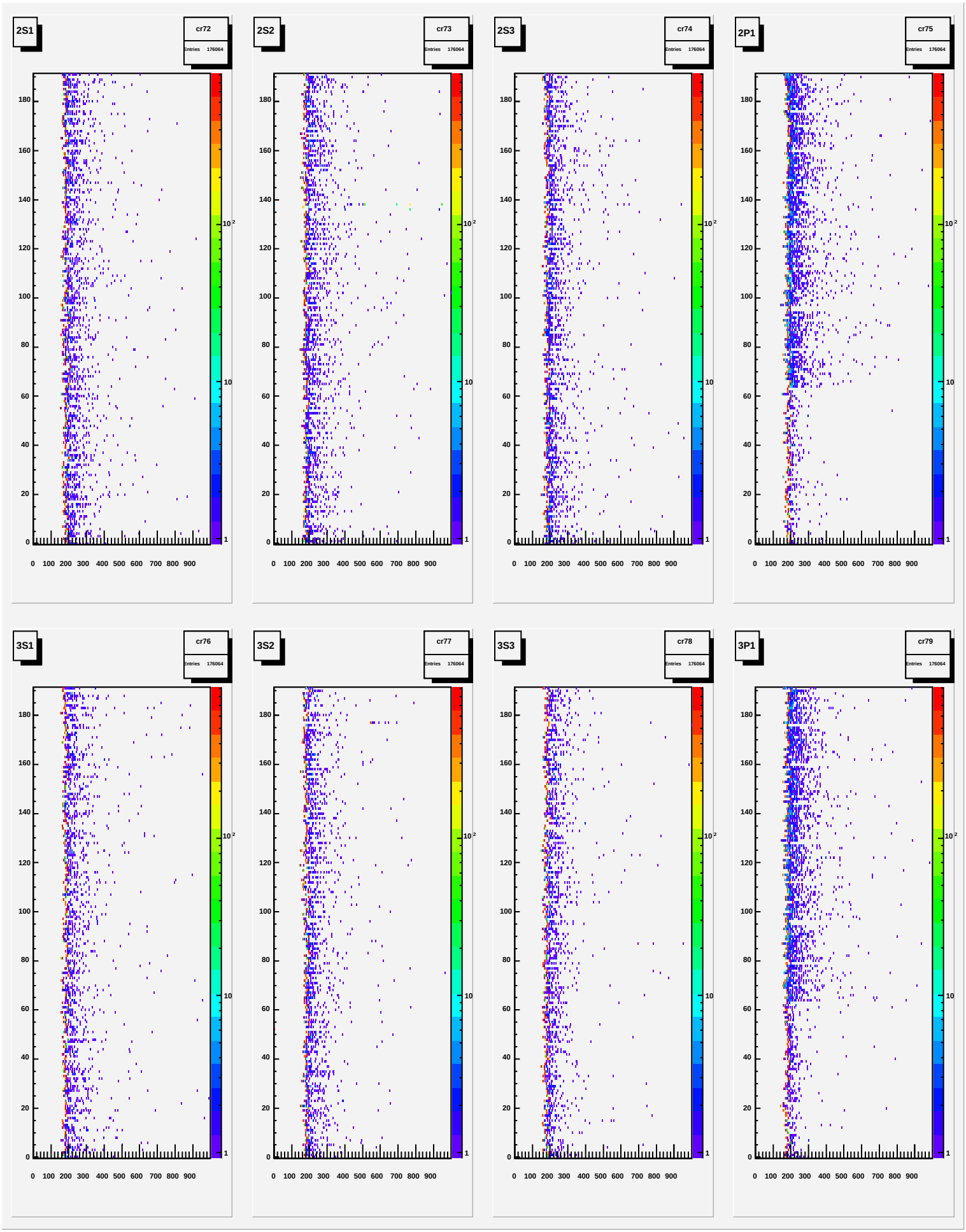

12P1
cr67
Entries 176064

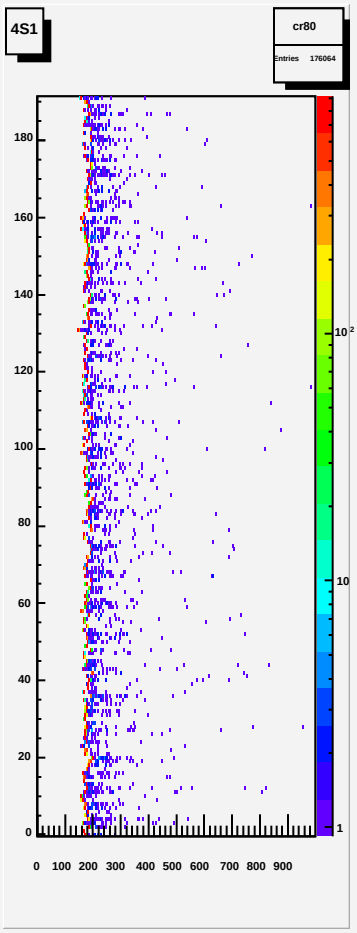

1S1
cr68
Entries 176064

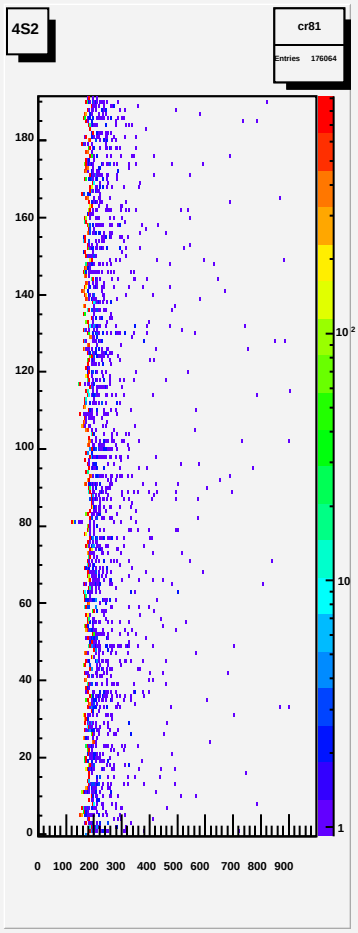

1S2
cr69
Entries 176064

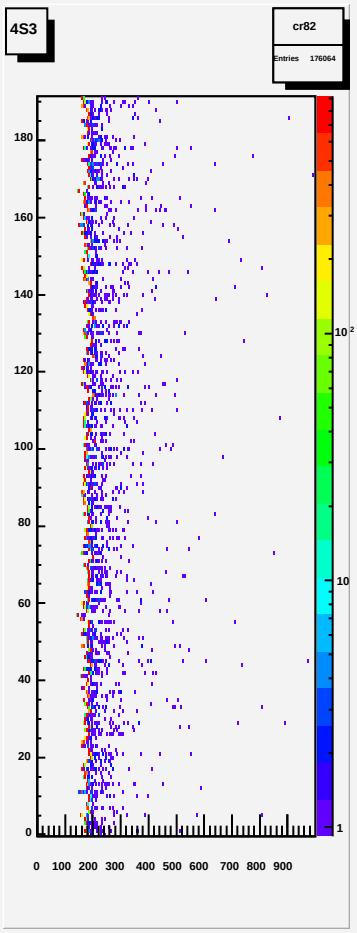

1S3
cr70
Entries 176064

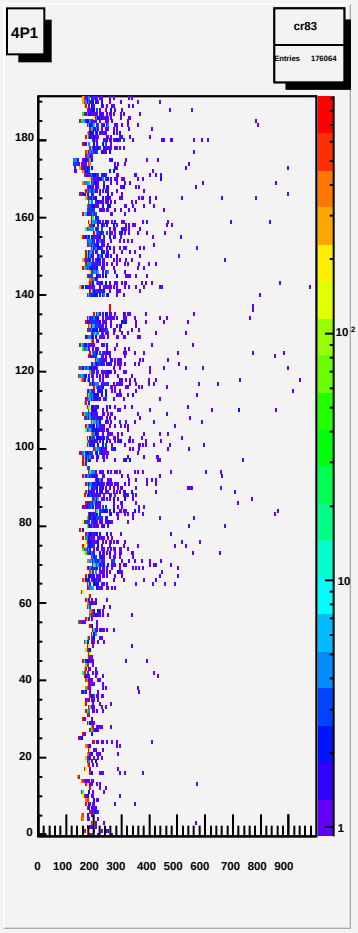

1P1
cr71
Entries 176064

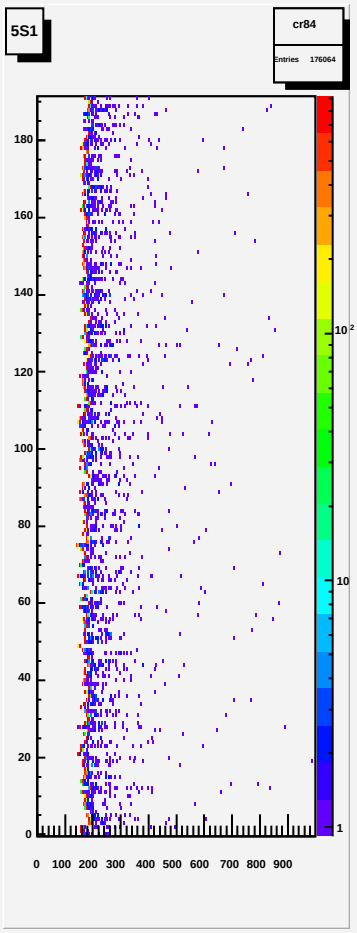

2S1
cr72
Entries 176064
2S2
cr73
Entries 176064
2S3
cr74
Entries 176064
2P1
cr75
Entries 176064
3S1
cr76
Entries 176064
3S2
cr77
Entries 176064
3S3
cr78
Entries 176064
3P1
cr79
Entries 176064
0 100 200 300 400 500 600 700 800 900
0 20 40 60 80 100 120 140 160 180
1
10
10 2

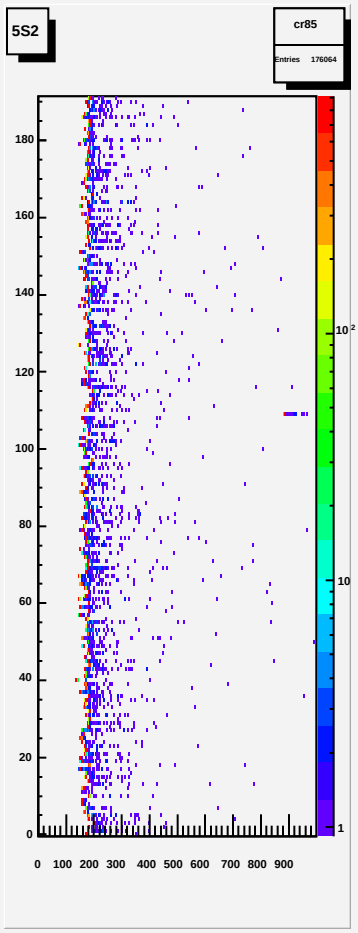

4S1
cr80
Entries 176064

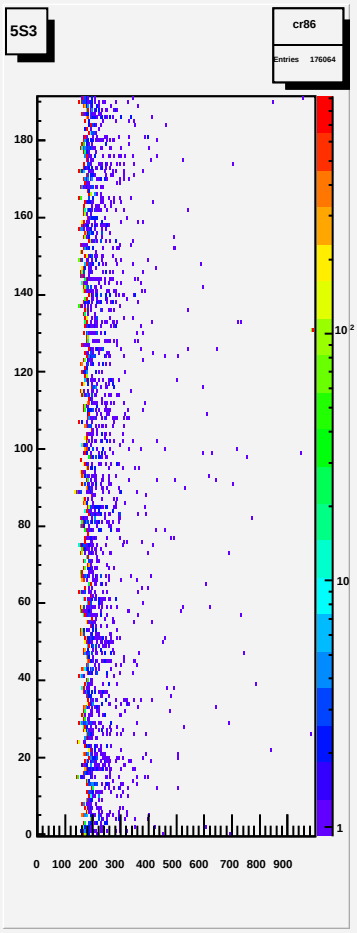

4S2
cr81
Entries 176064

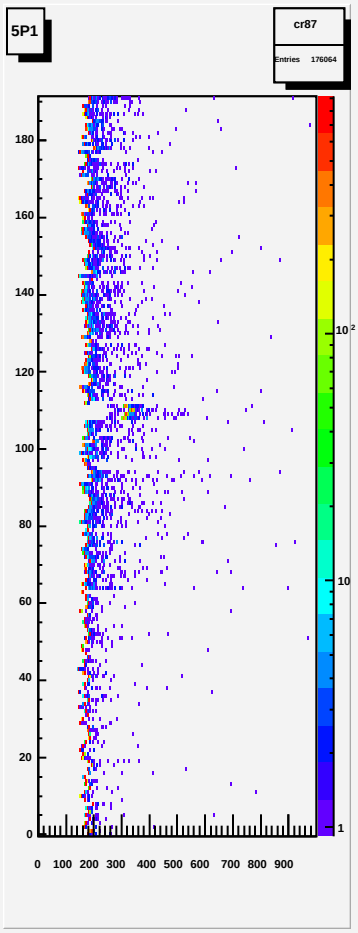

4S3
cr82
Entries 176064

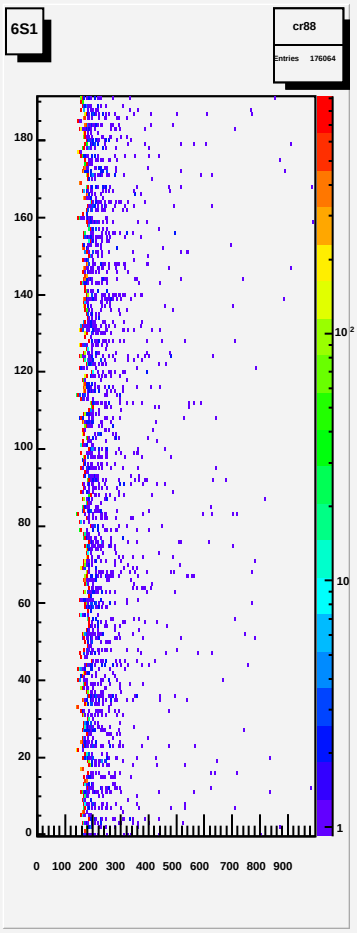

4P1
cr83
Entries 176064

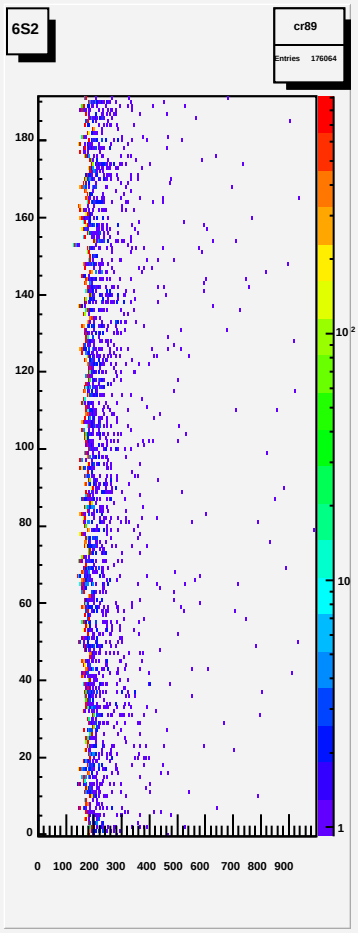

5S1
cr84
Entries 176064

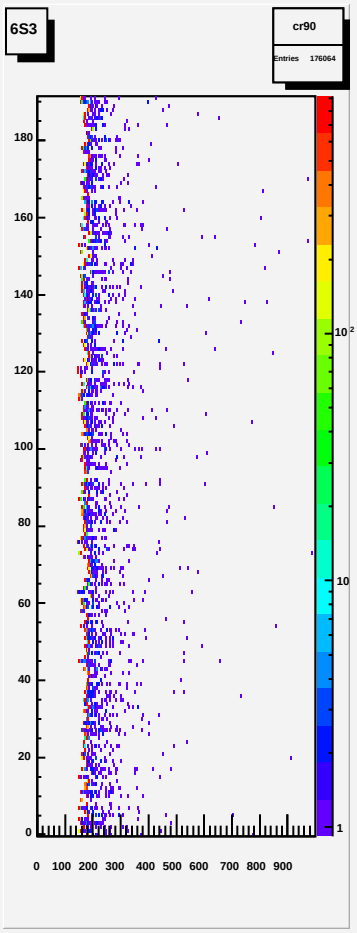

5S2
cr85
Entries 176064

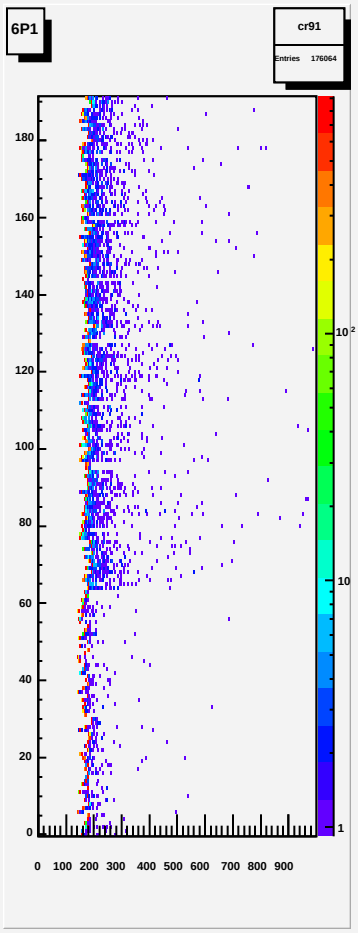

5S3
cr86
Entries 176064

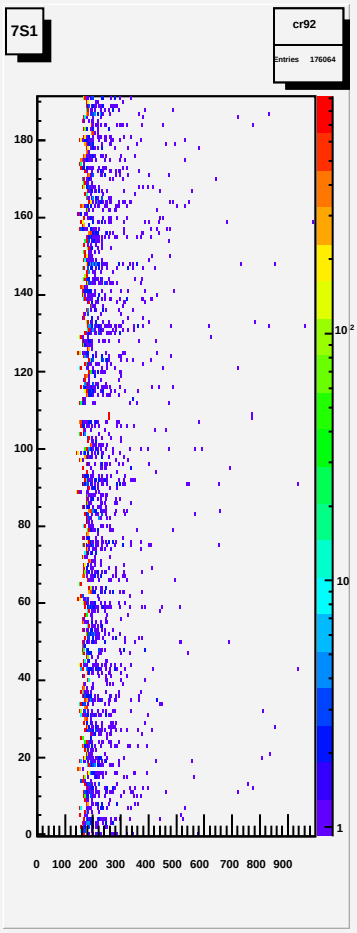

5P1
cr87
Entries 176064

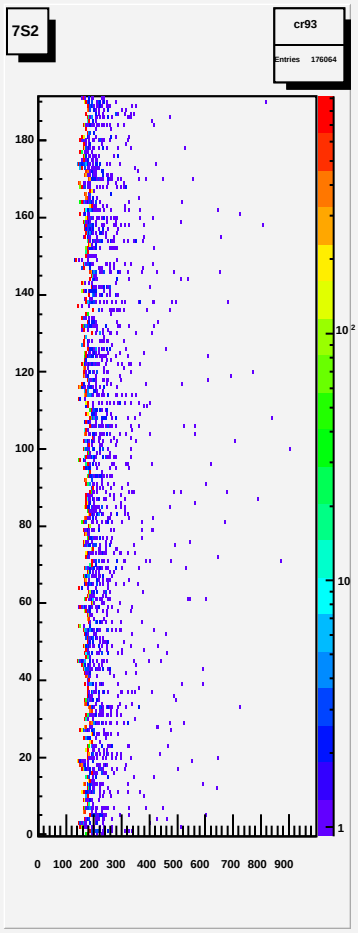

6S1
cr88
Entries 176064

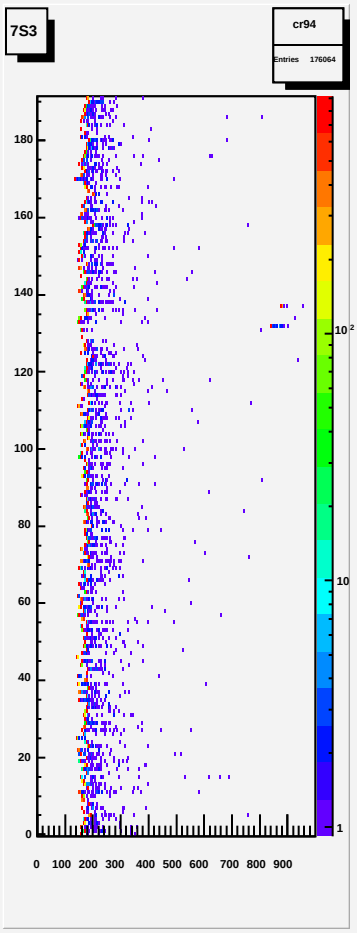

6S2
cr89
Entries 176064

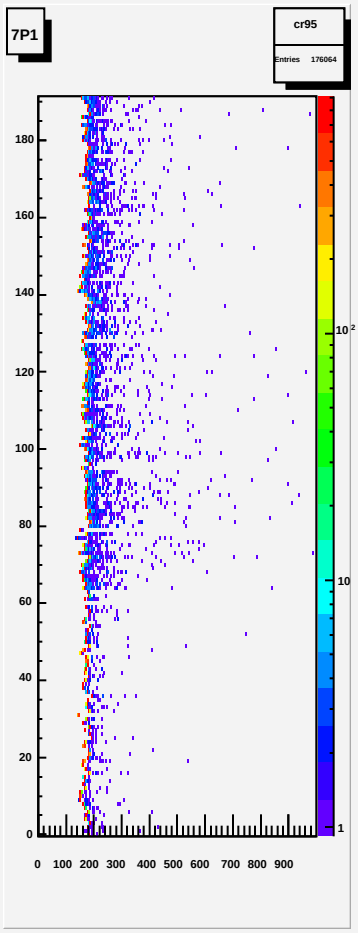

6S3
cr90
Entries 176064

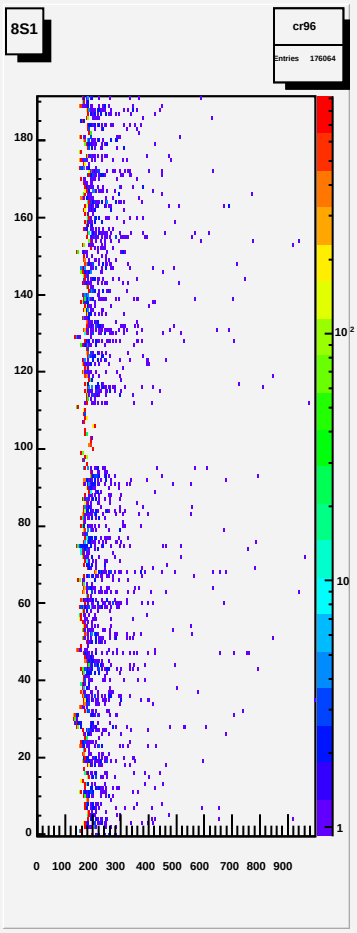

6P1
cr91
Entries 176064

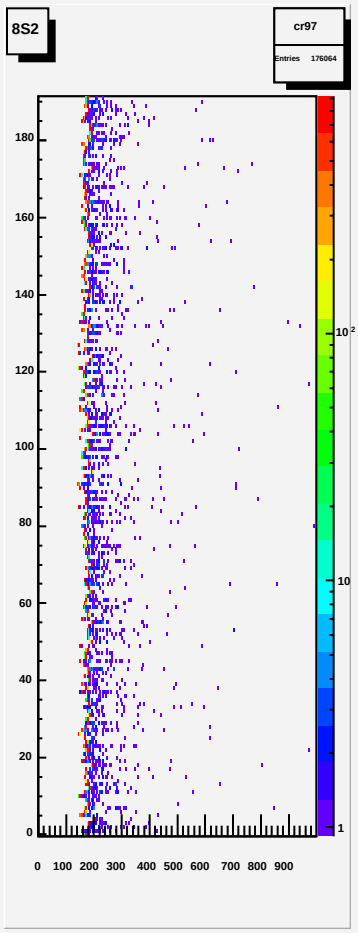

7S1
cr92
Entries 176064

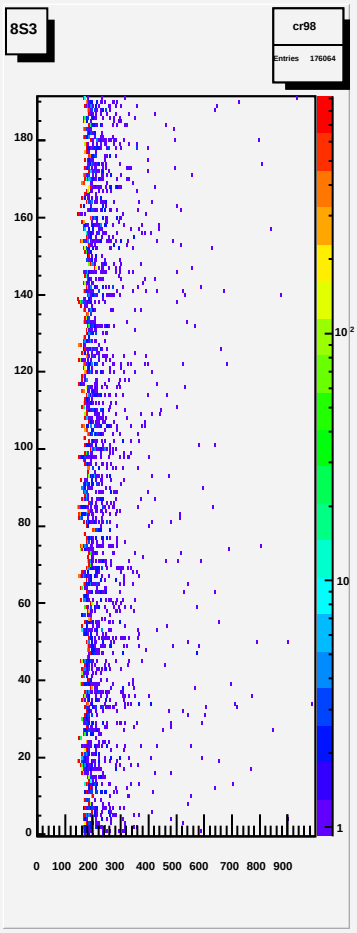

7S2
cr93
Entries 176064

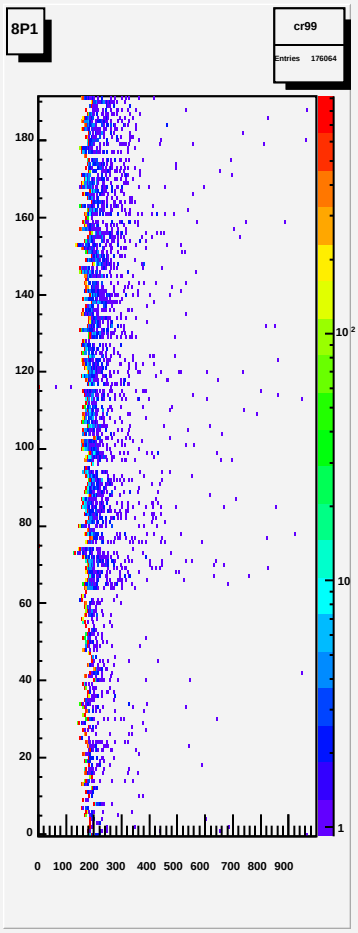

7S3
cr94
Entries 176064

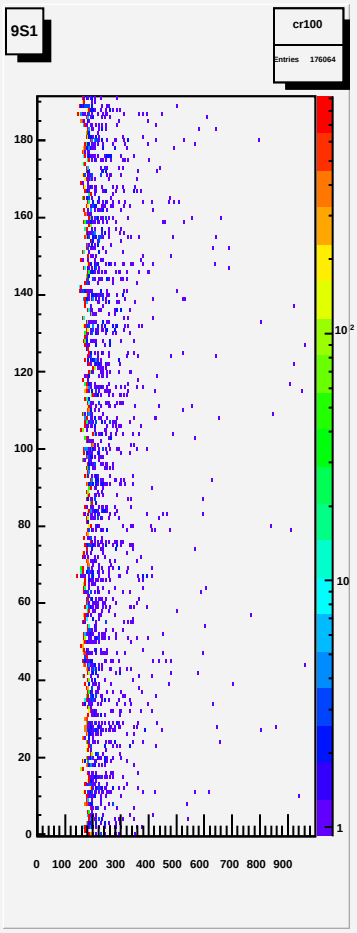

7P1
cr95
Entries 176064

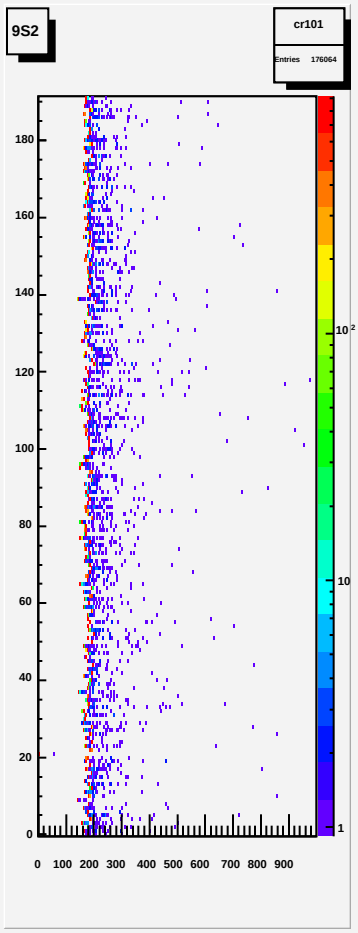

8S1
cr96
Entries 176064

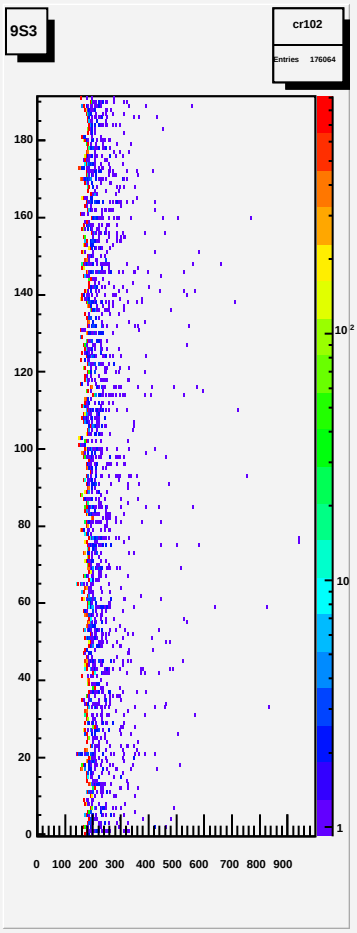

8S2
cr97
Entries 176064

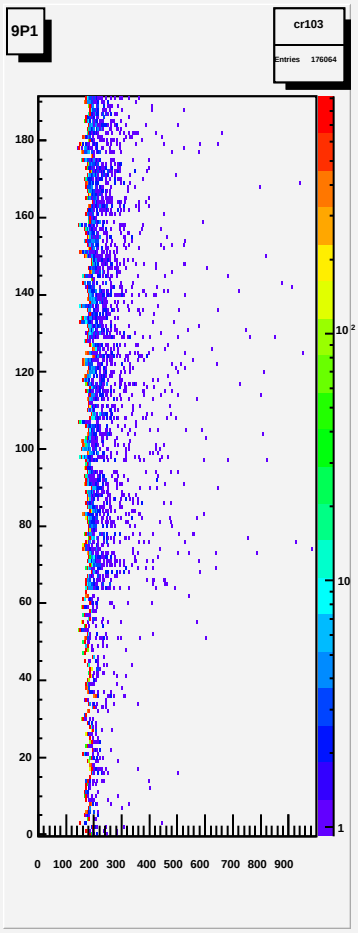

8S3
cr98
Entries 176064

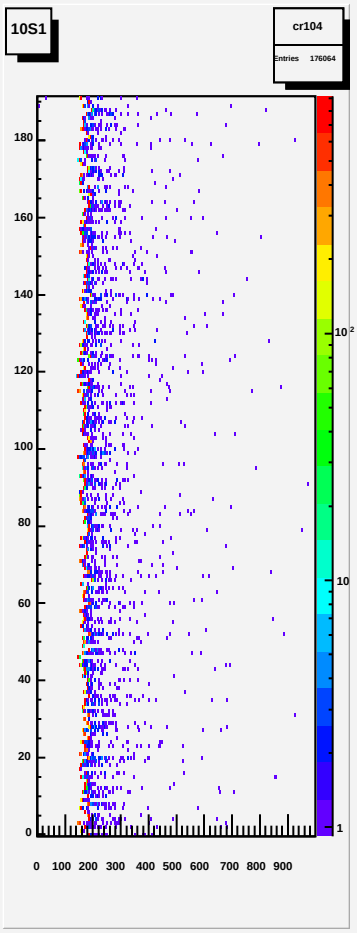

8P1
cr99
Entries 176064

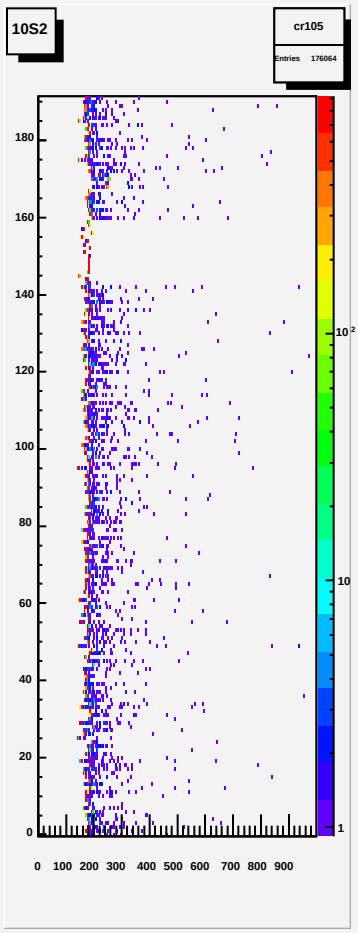

9S1
cr100
Entries 176064


9S2
cr101
Entries 176064


9S3
cr102
Entries 176064


9P1
cr103
Entries 176064


10S1
cr104
Entries 176064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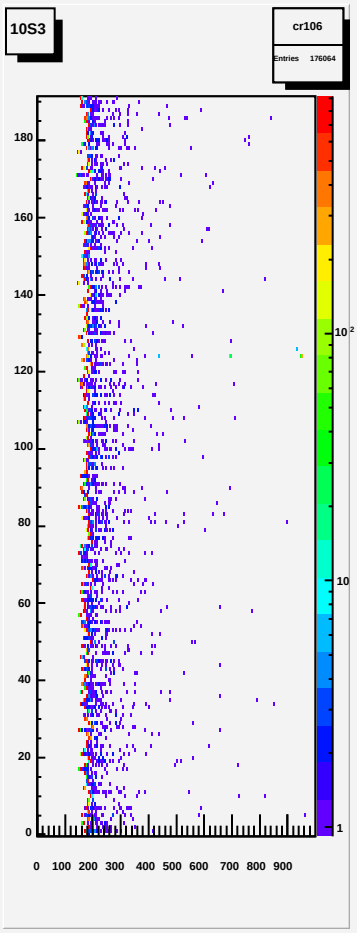
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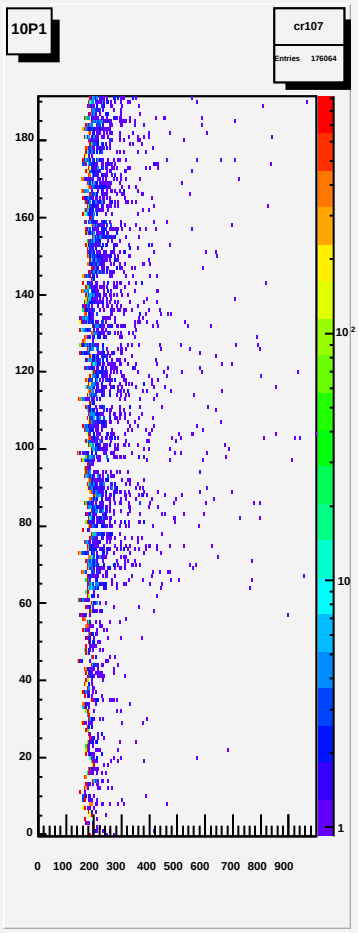
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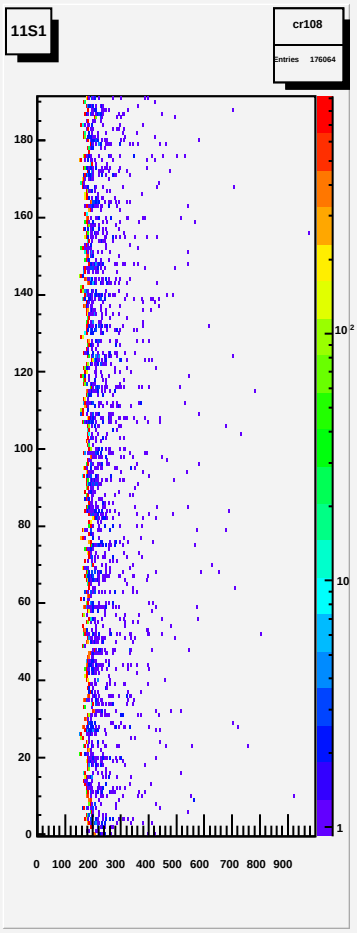
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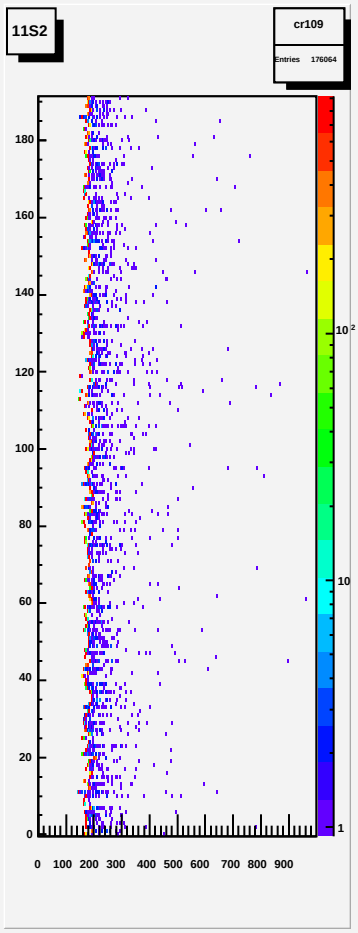
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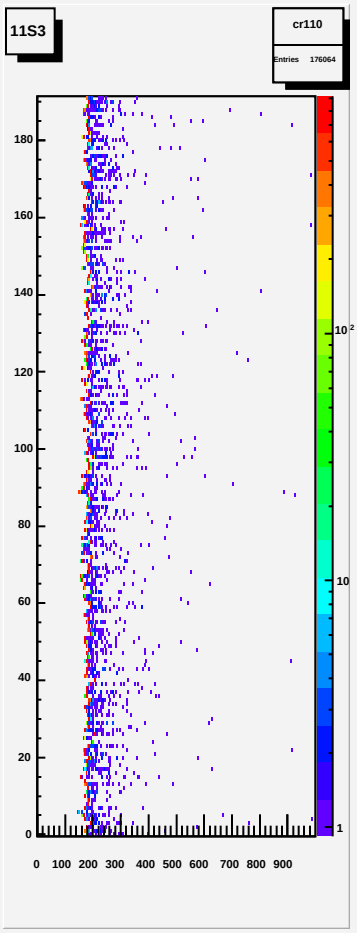
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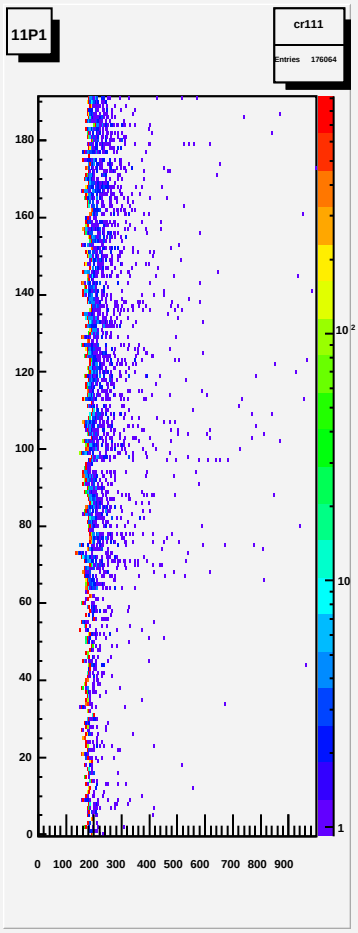
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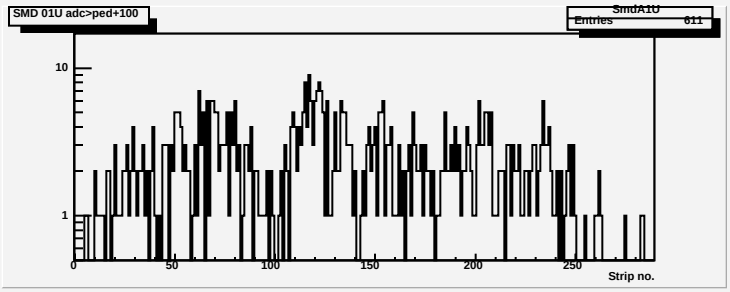
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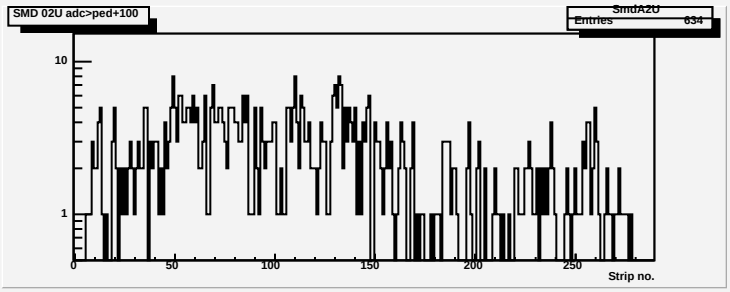
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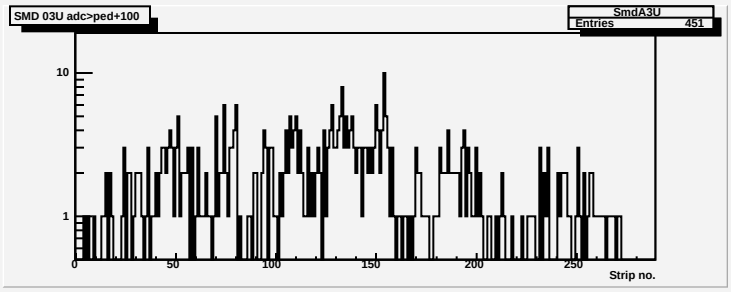
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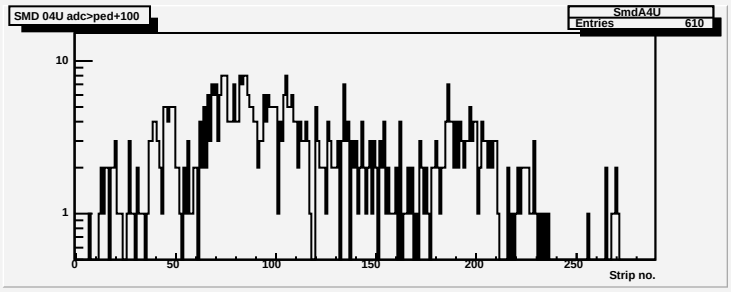
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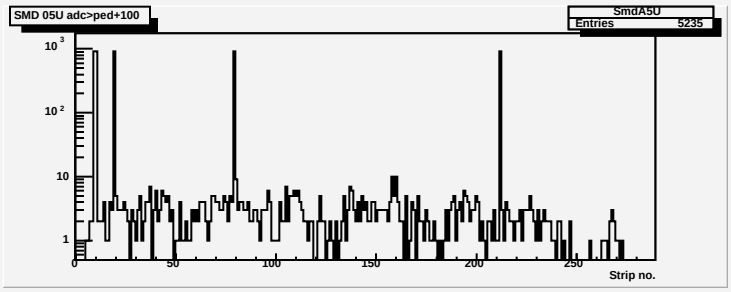
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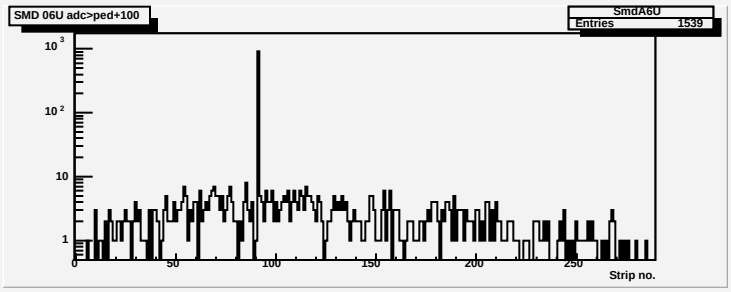
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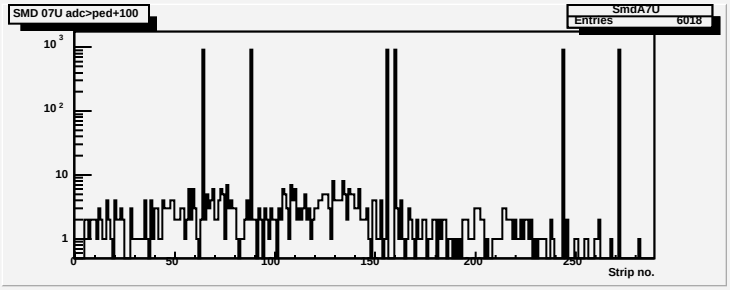
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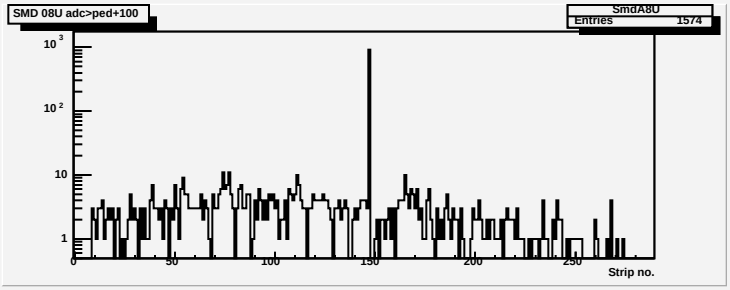
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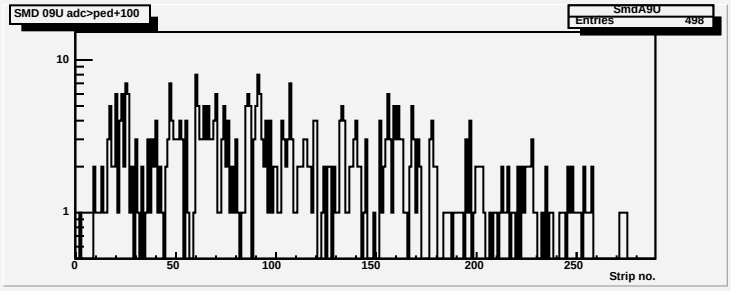
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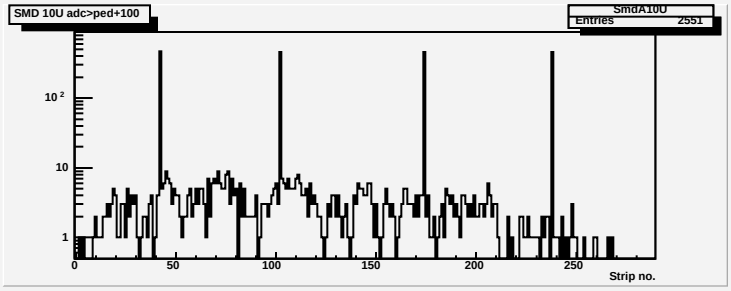
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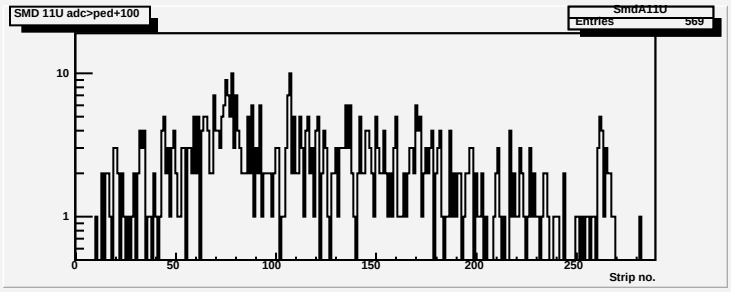
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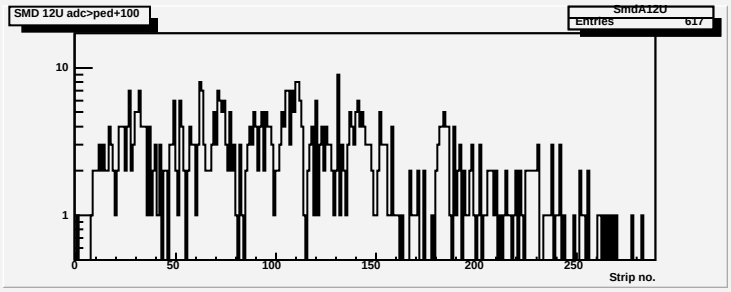
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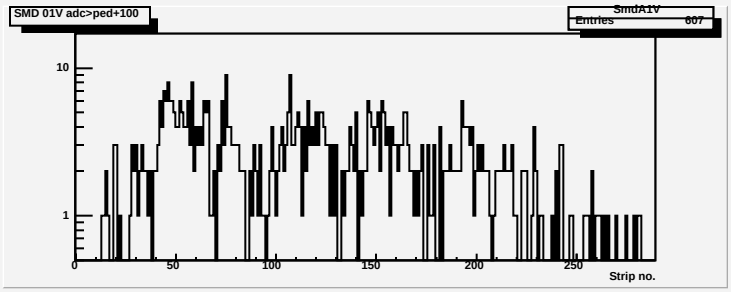
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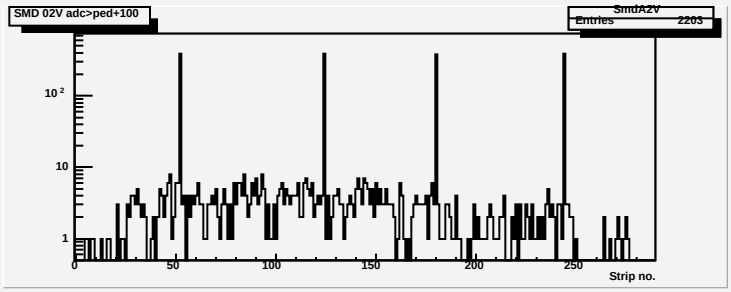
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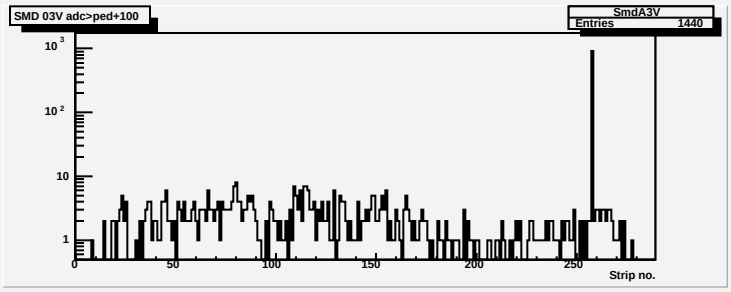
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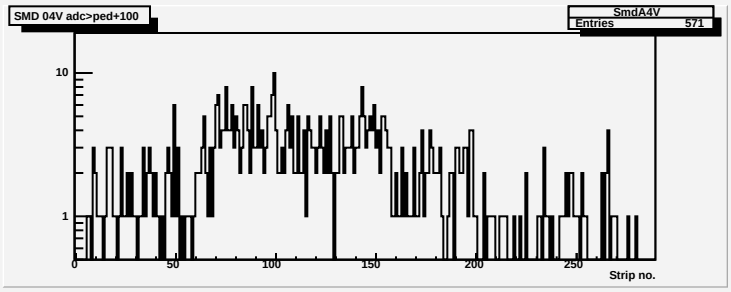
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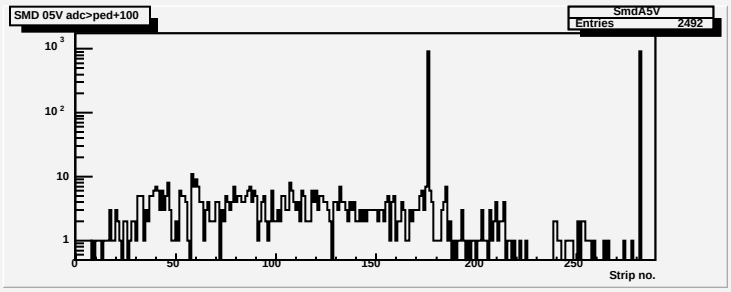
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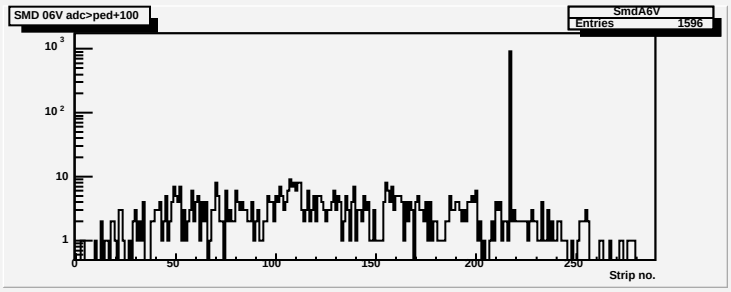
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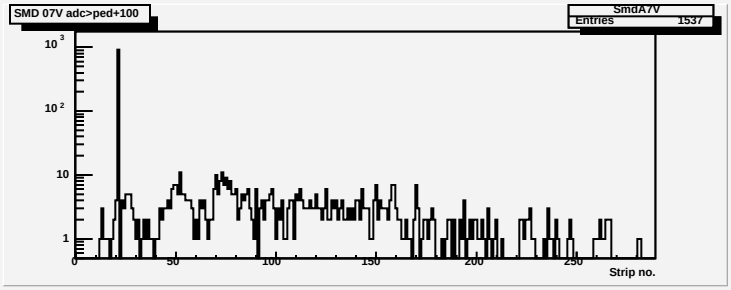
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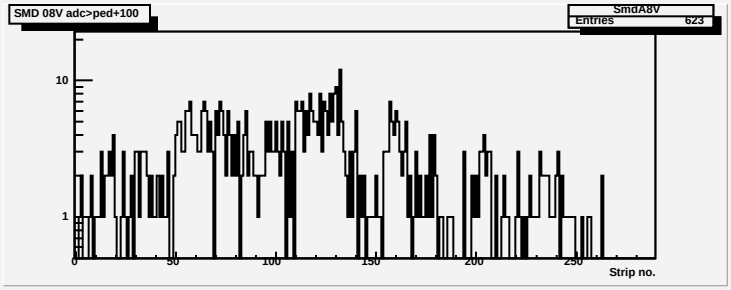
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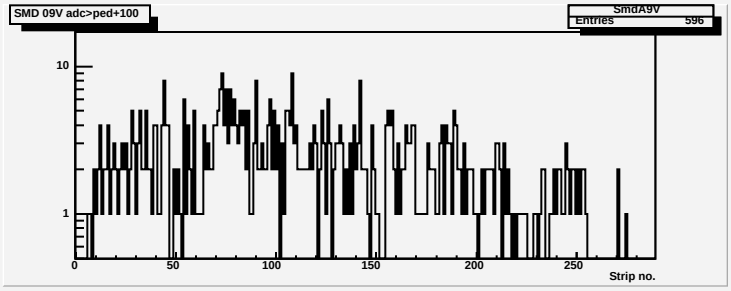
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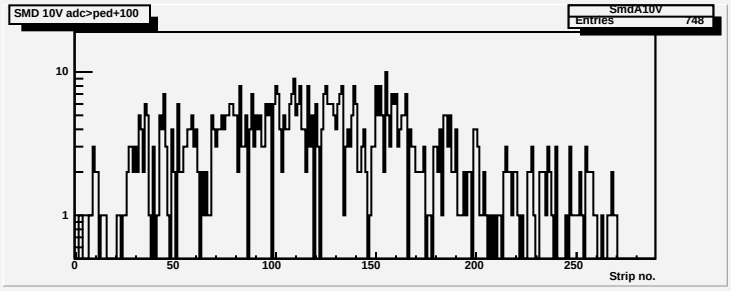
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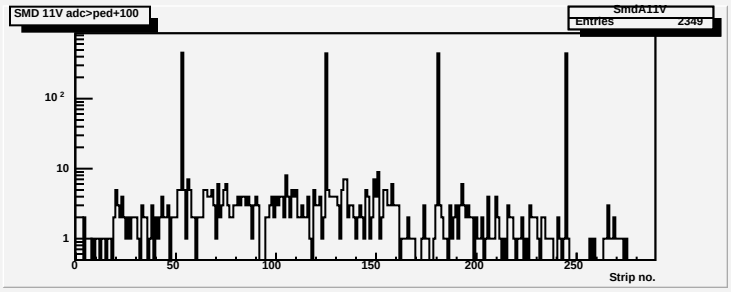
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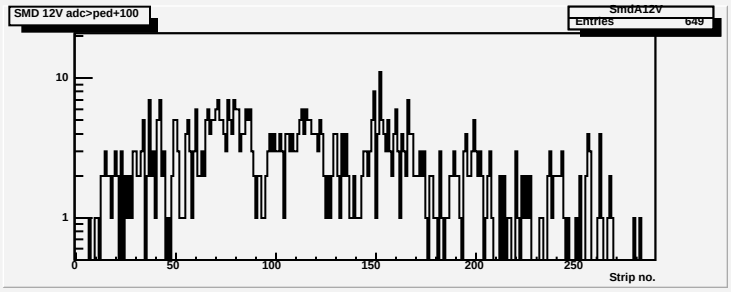
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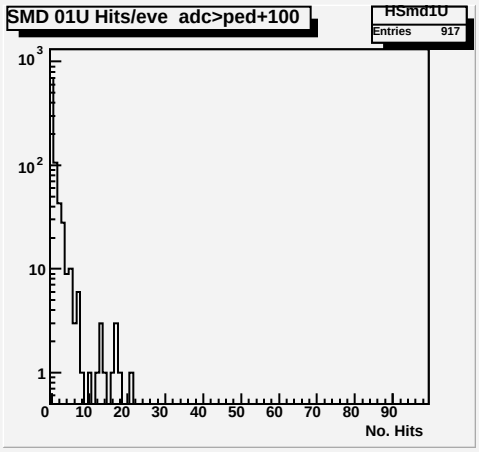
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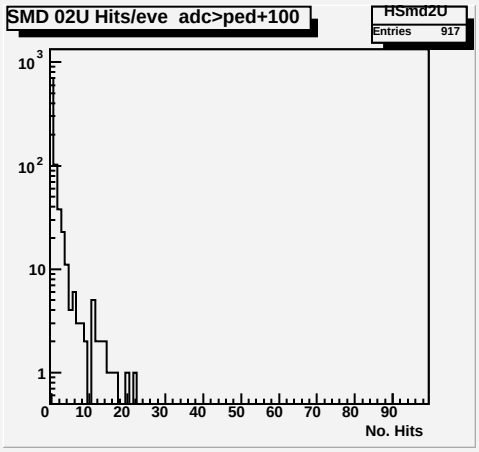
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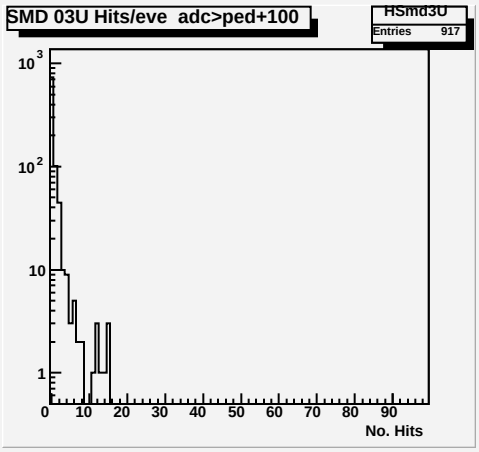
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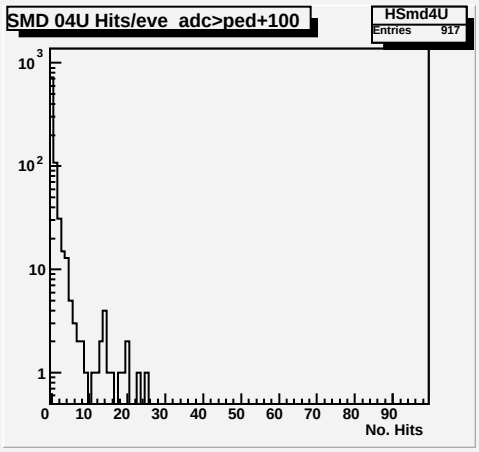
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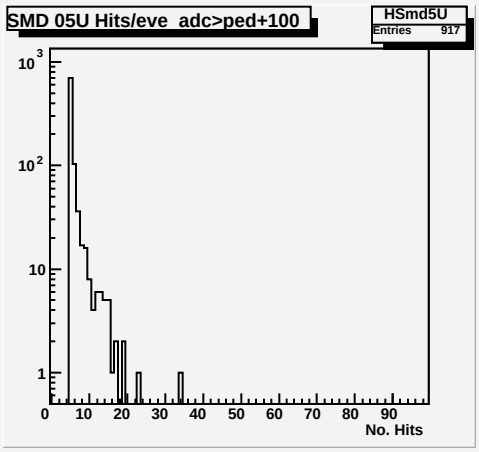
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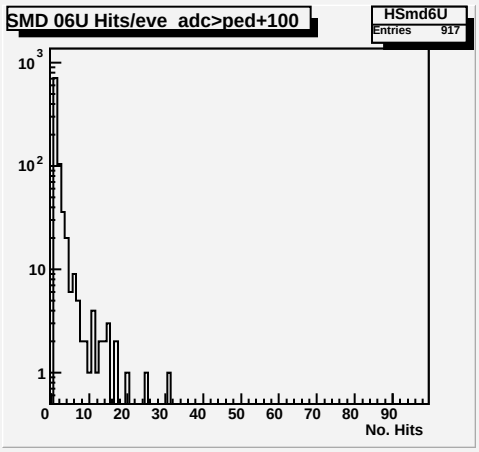
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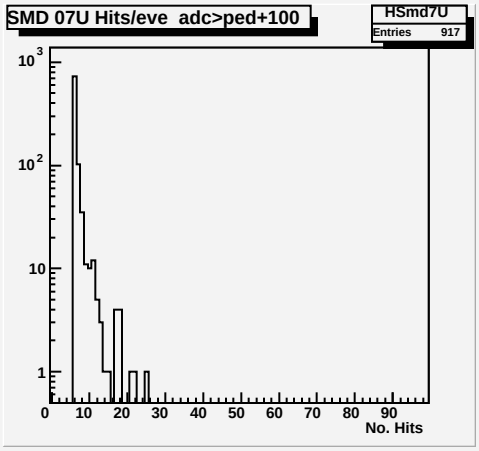
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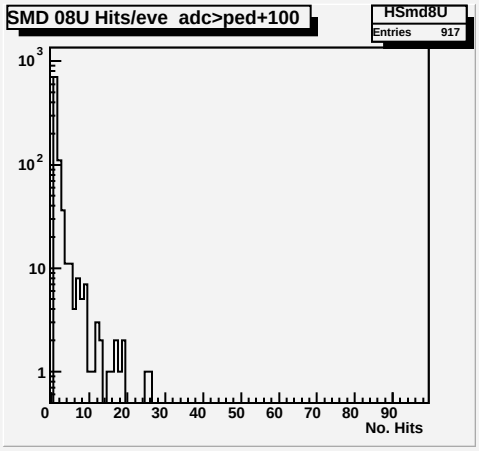
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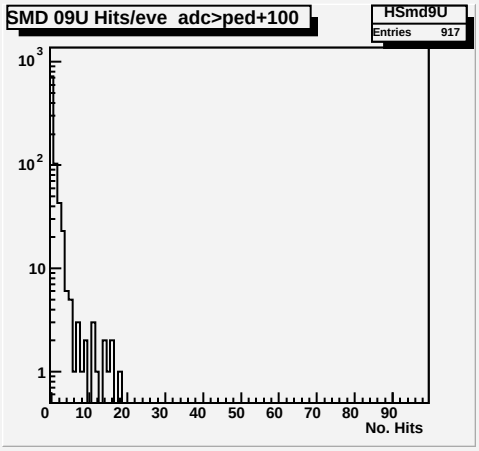
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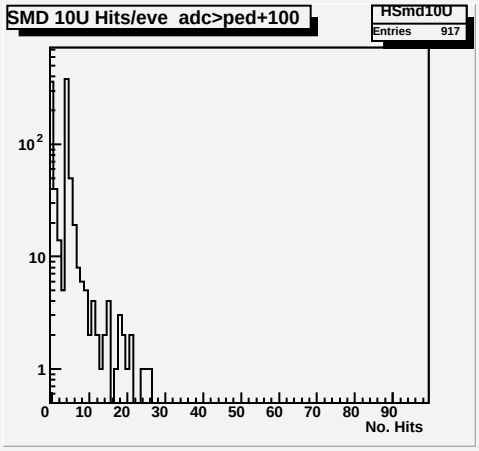
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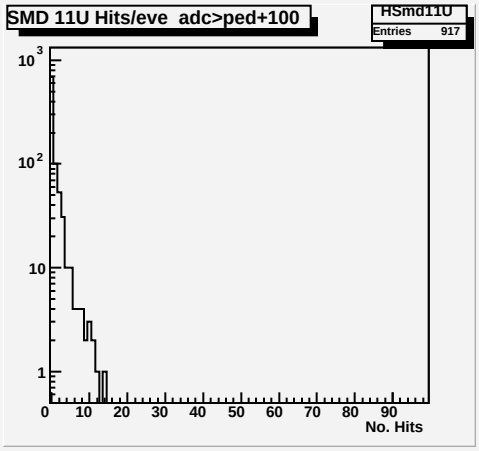
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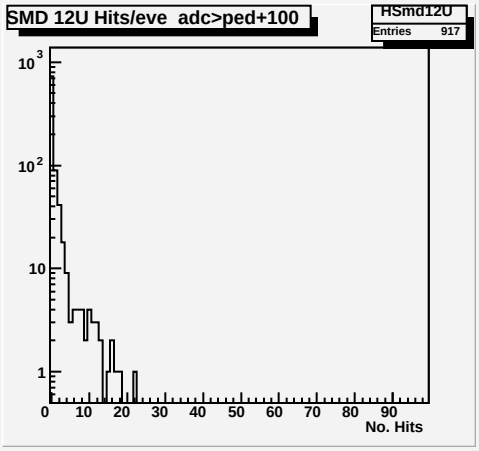
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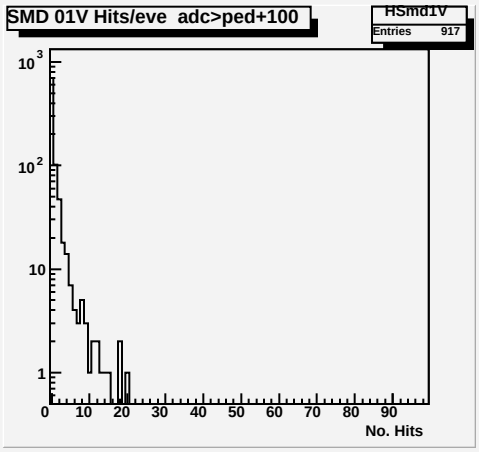
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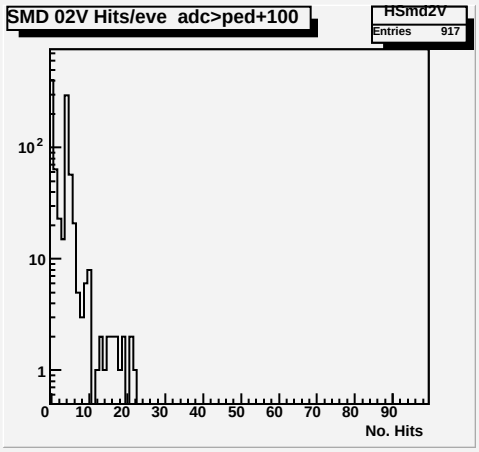
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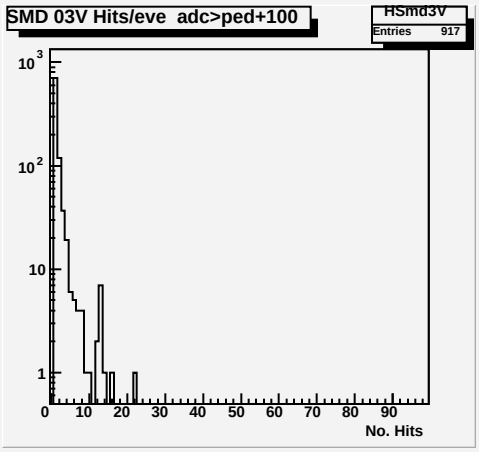
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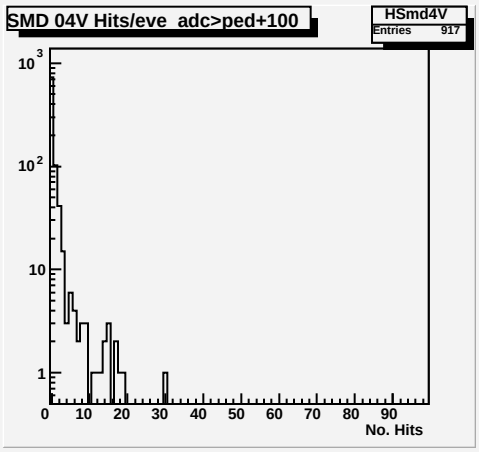
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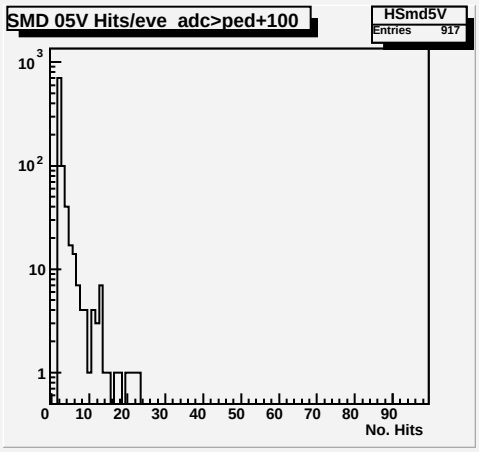
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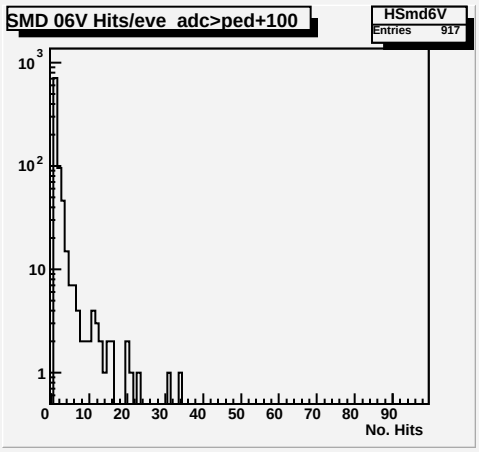
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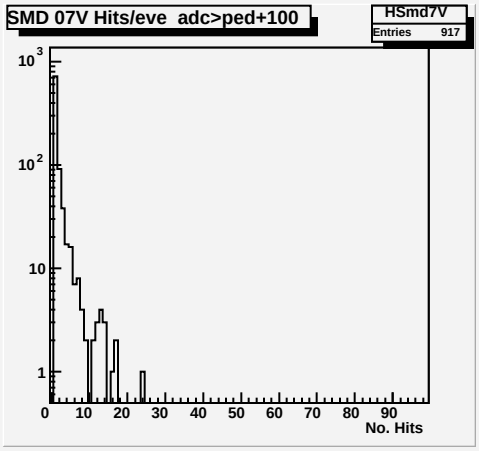
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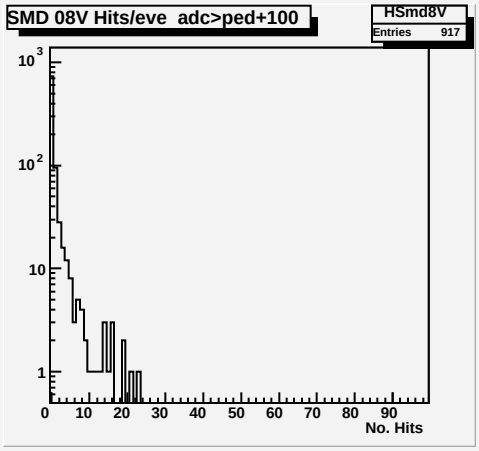
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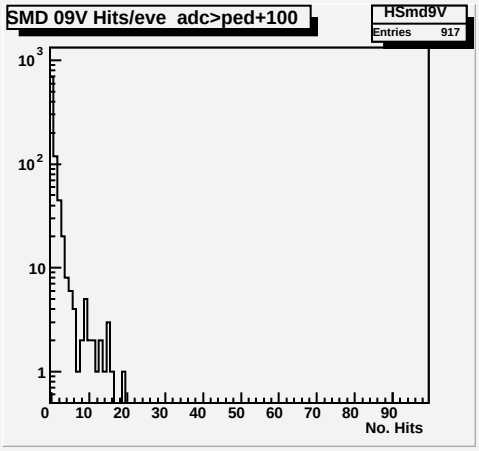
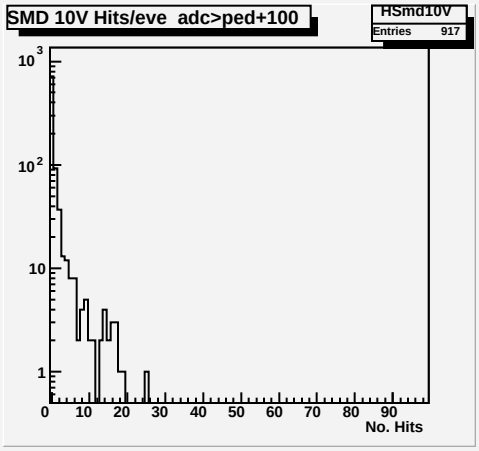
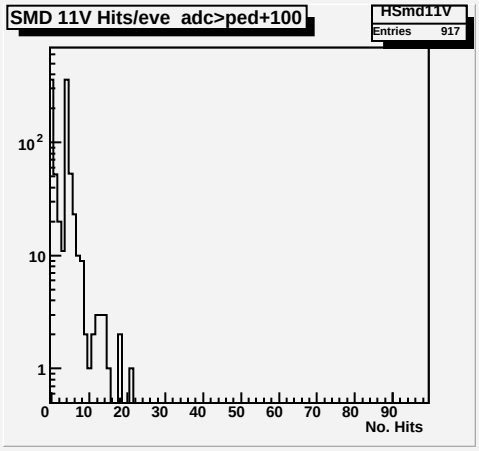
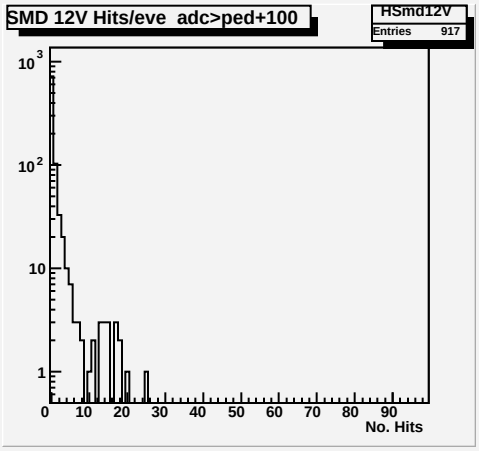
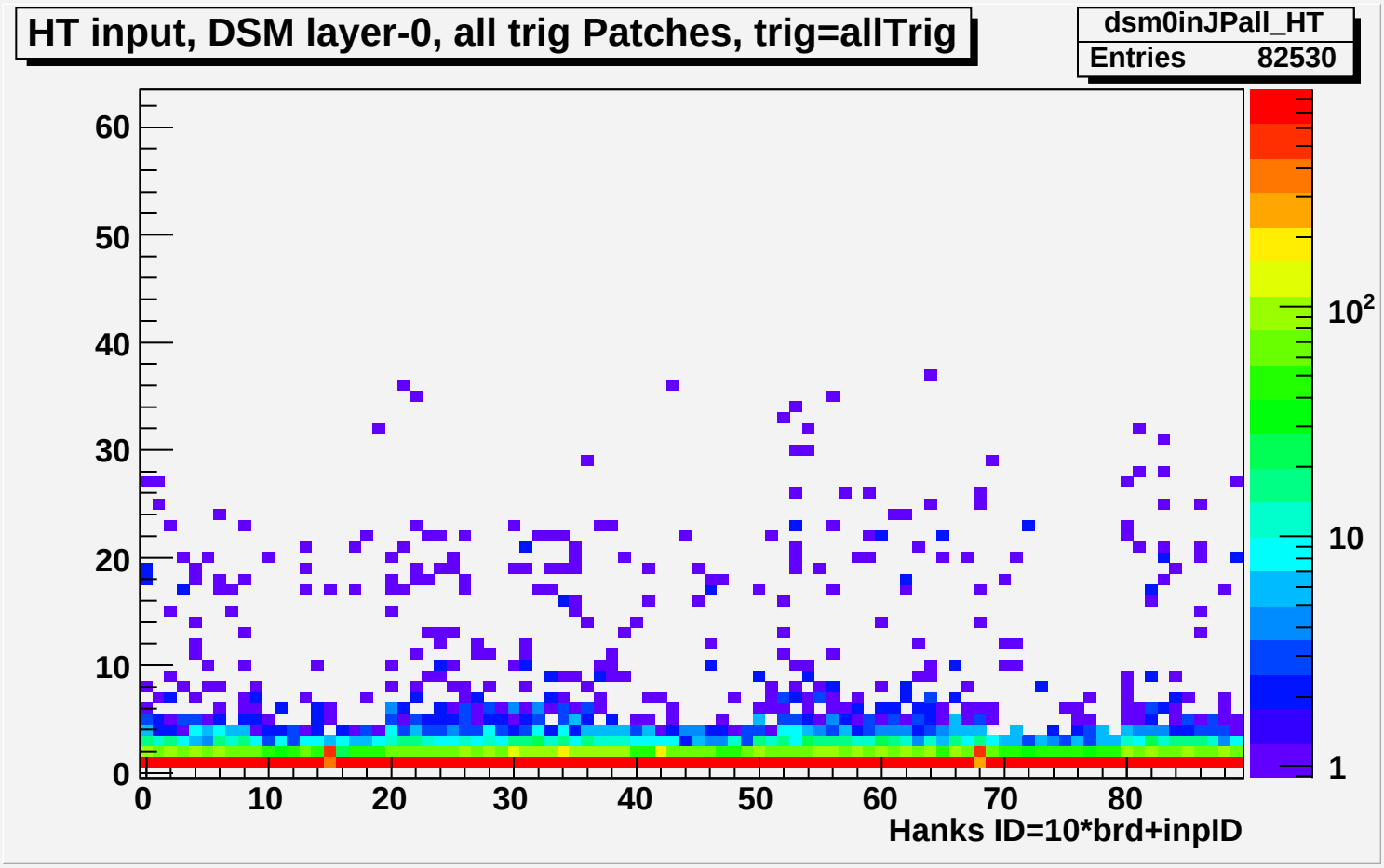
No. Hits

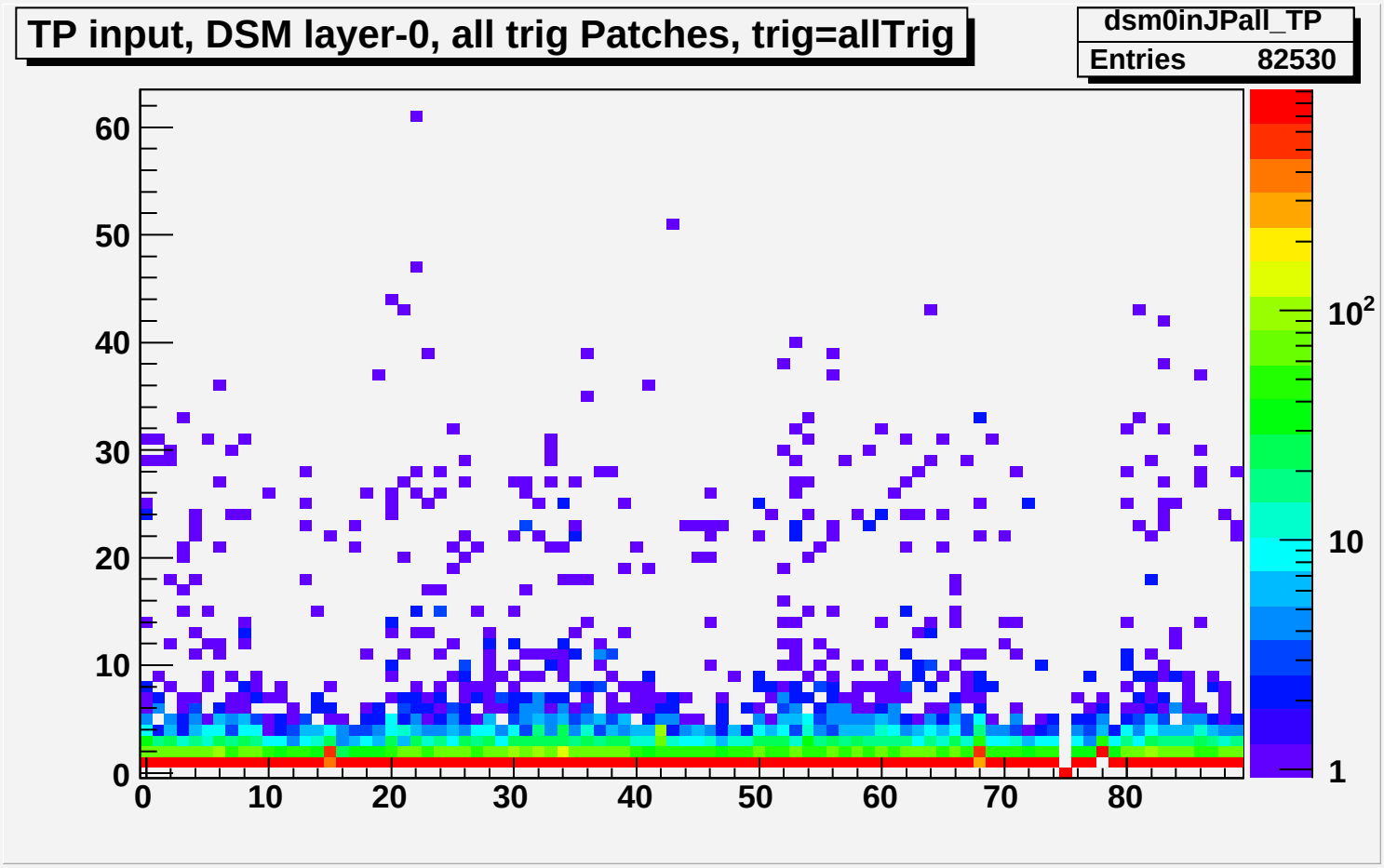

SMD 09V Hits/eve adc>ped+100
HSmd9V
Entries 917
No. Hits

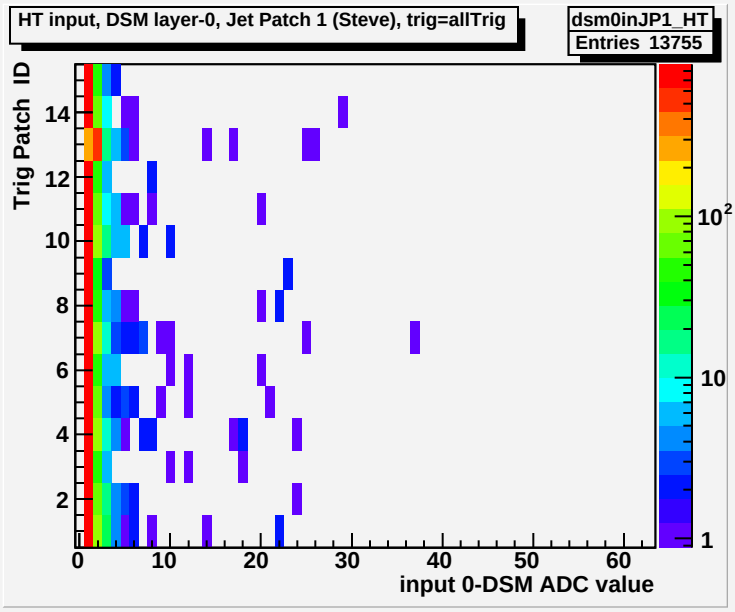

SMD 10V Hits/eve adc>ped+100
HSmd10V
Entries 917
No. Hits

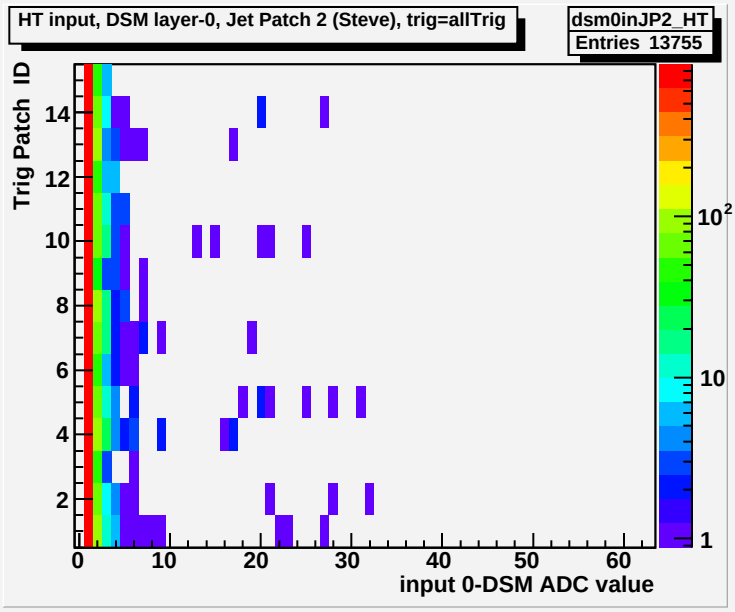

SMD 11V Hits/eve adc>ped+100
HSmd11V
Entries 917
No. Hits

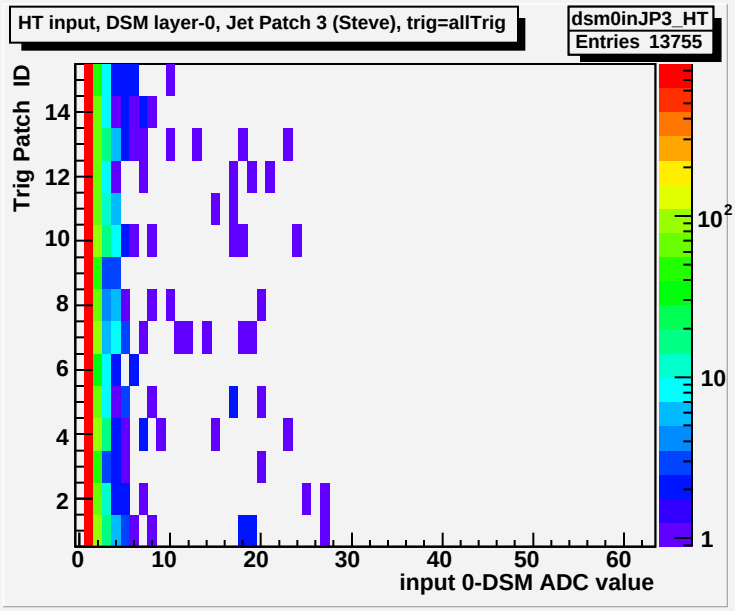

SMD 12V Hits/eve adc>ped+100
HSmd12V
Entries 917
No. Hits

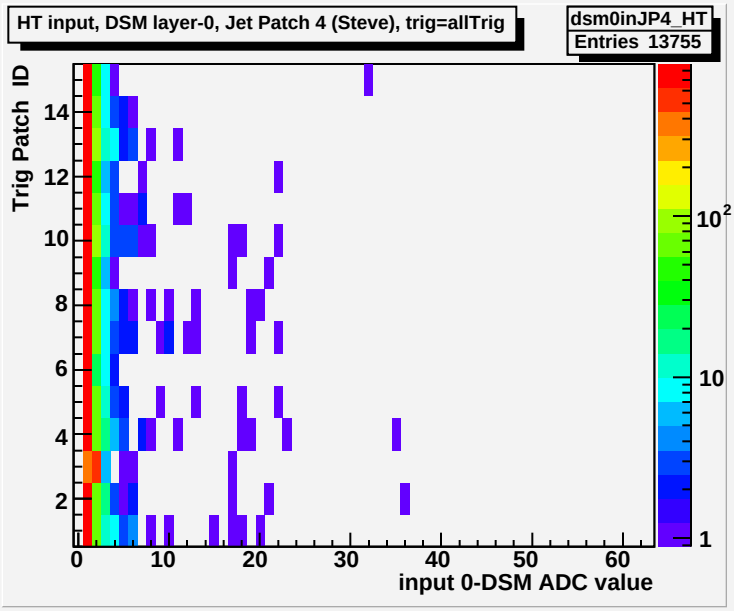

HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 82530
Hanks ID=10*brd+inpID

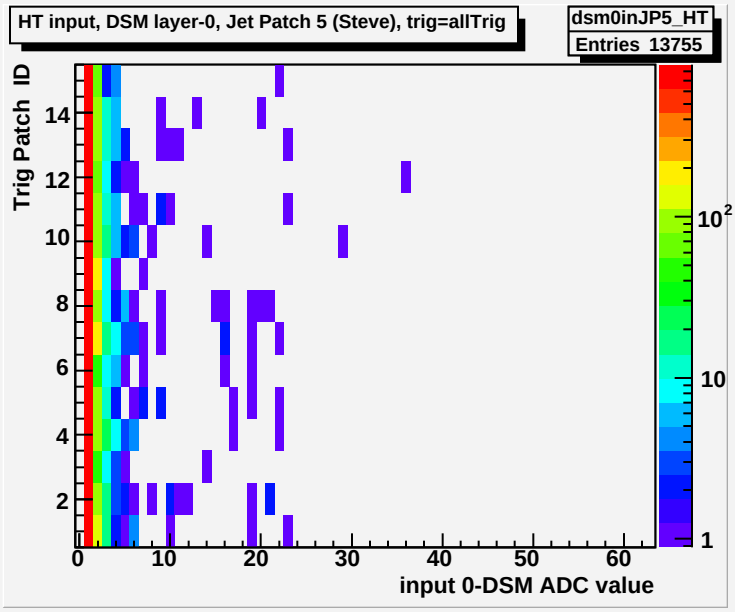

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 82530

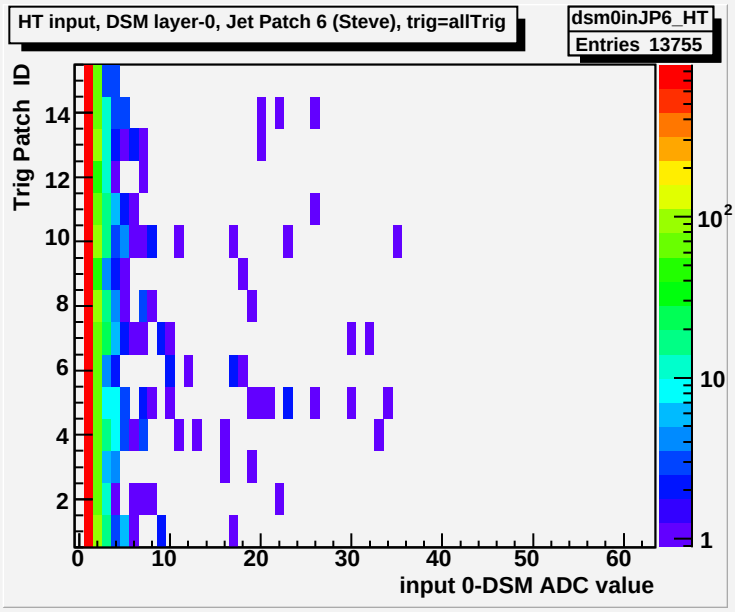

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 13755
Trig Patch ID
input 0-DSM ADC value

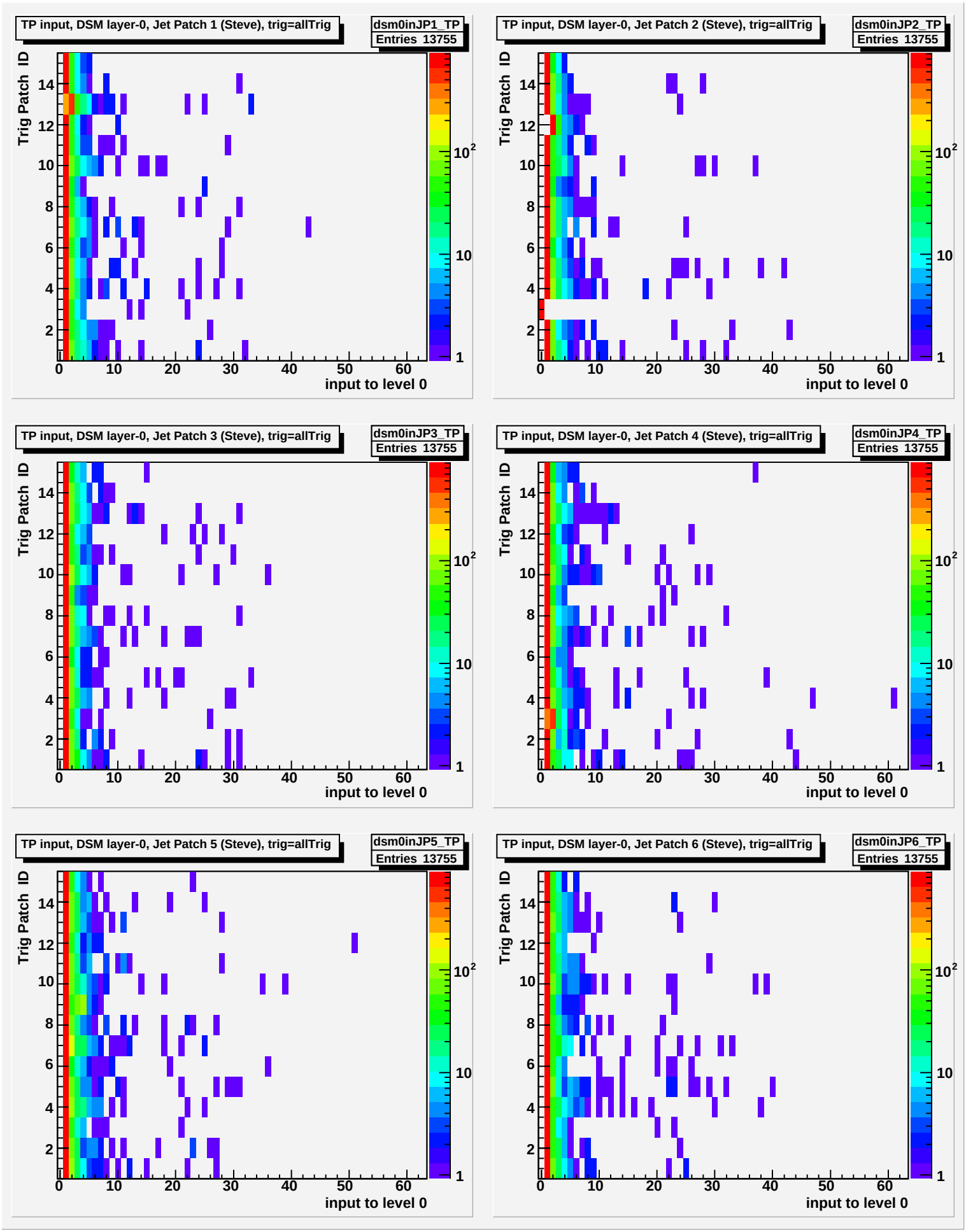

HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 13755
Trig Patch ID
input 0-DSM ADC value

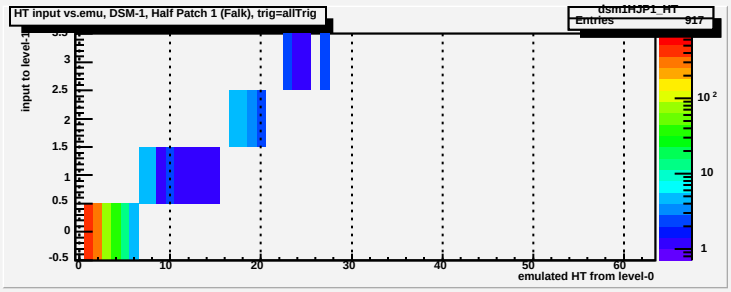

HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 13755
Trig Patch ID
input 0-DSM ADC value

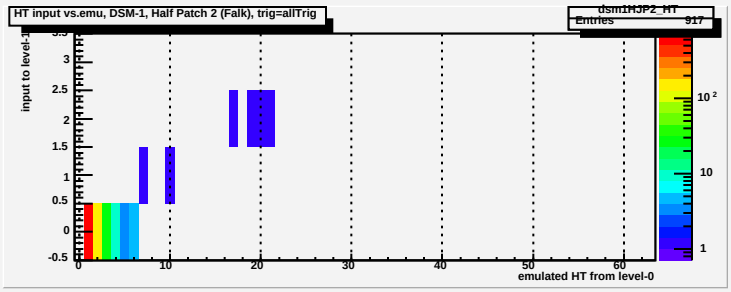

HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 13755
Trig Patch ID
input 0-DSM ADC value

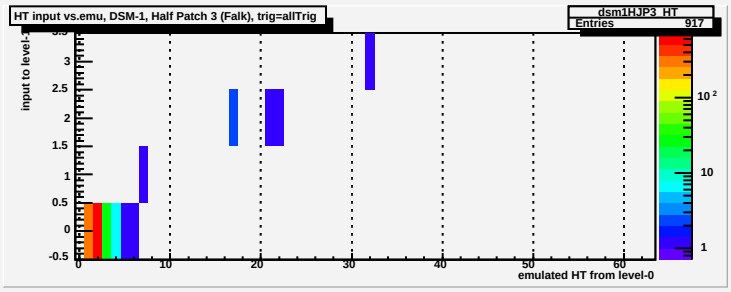

HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 13755
Trig Patch ID
input 0-DSM ADC value

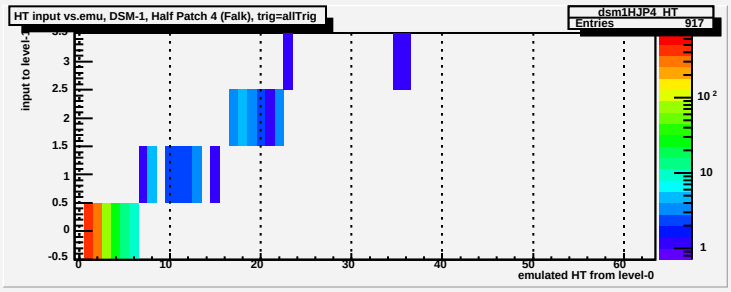

HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 13755
Trig Patch ID
input 0-DSM ADC value

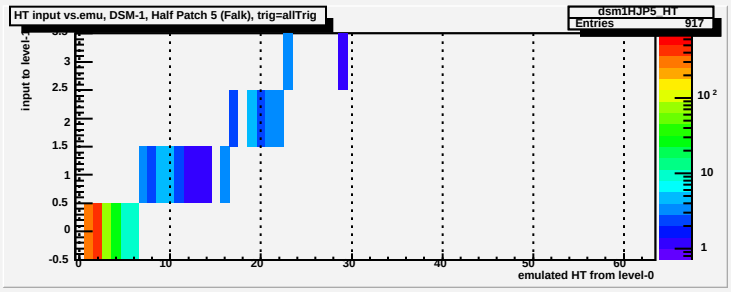

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 13755
TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 13755
TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 13755
TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 13755
TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 13755
TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 13755
Trig Patch ID
input to level 0

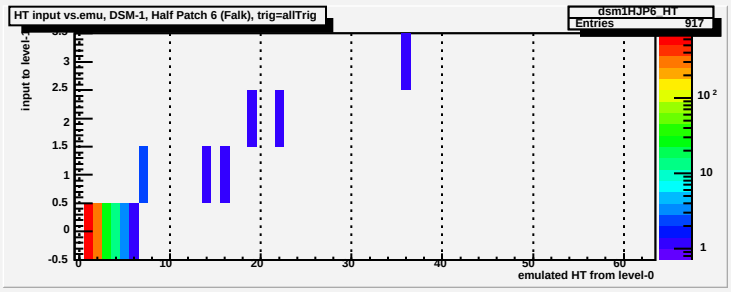

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 917
input to level-1
emulated HT from level-0

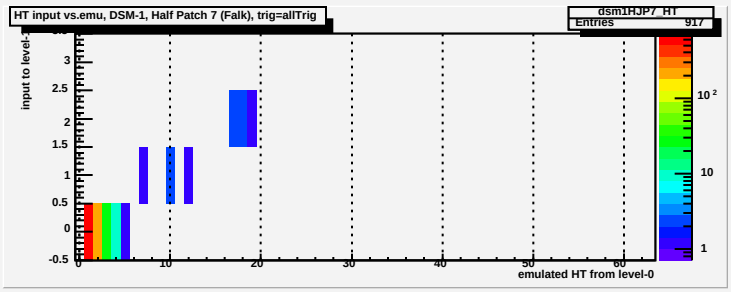

HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 917
input to level-1
emulated HT from level-0

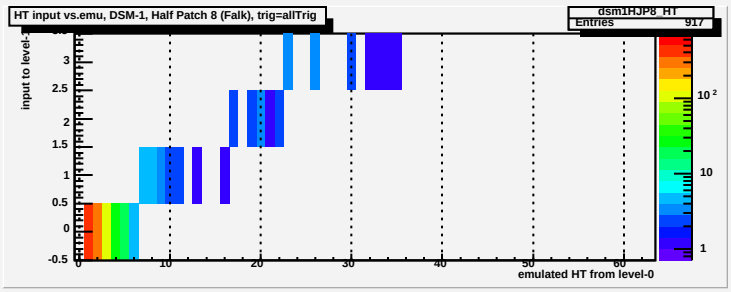

HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 917
input to level-1
emulated HT from level-0

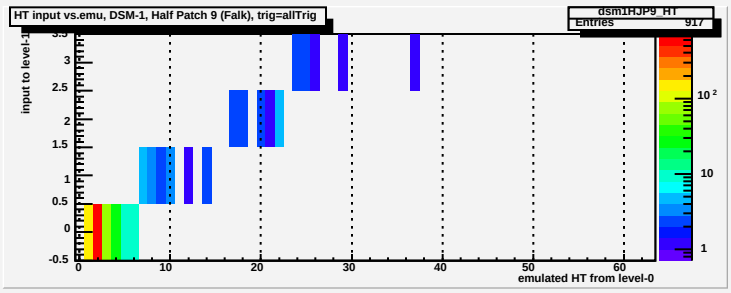

HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT
Entries 917
input to level-1
emulated HT from level-0

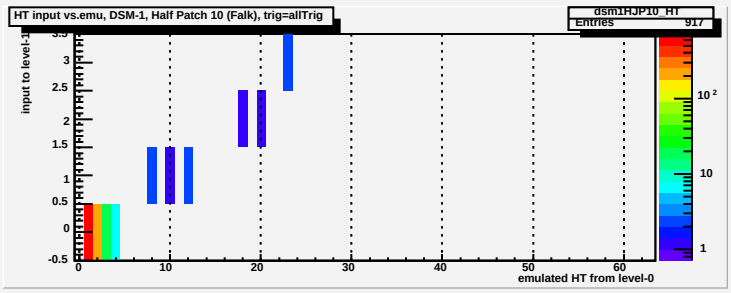

HT input vs.emu, DSM-1, Half Patch 5 (Falk), trig=allTrig
dsm1HJP5_HT
Entries 917
input to level-1
emulated HT from level-0

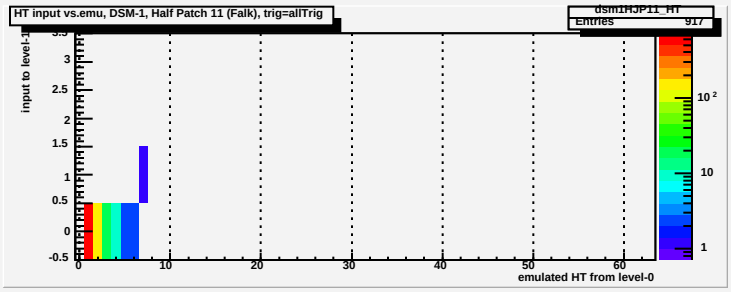

HT input vs.emu, DSM-1, Half Patch 6 (Falk), trig=allTrig
dsm1HJP6_HT
Entries 917
input to level-1
emulated HT from level-0

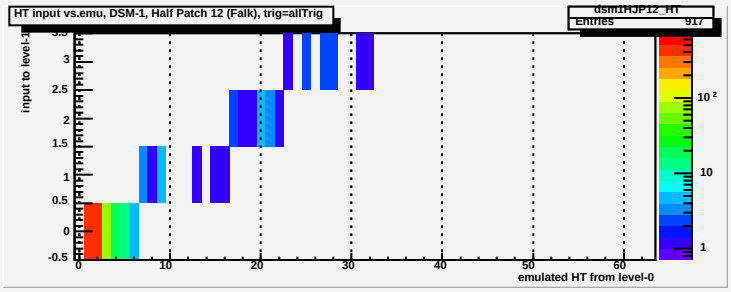

HT input vs.emu, DSM-1, Half Patch 7 (Falk), trig=allTrig
dsm1HJP7_HT
Entries 917
input to level-1
emulated HT from level-0

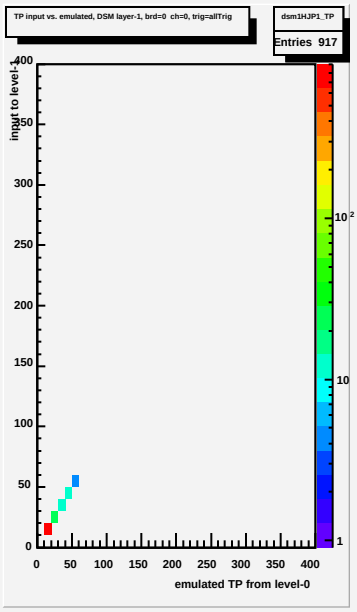

HT input vs.emu, DSM-1, Half Patch 8 (Falk), trig=allTrig
dsm1HJP8_HT
Entries 917
input to level-1
emulated HT from level-0

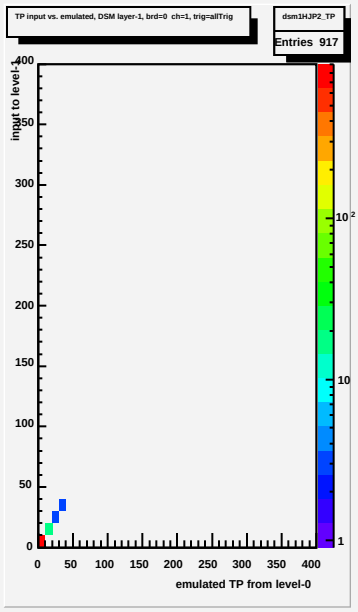

HT input vs.emu, DSM-1, Half Patch 9 (Falk), trig=allTrig
dsm1HJP9_HT
Entries 917
input to level-1
emulated HT from level-0

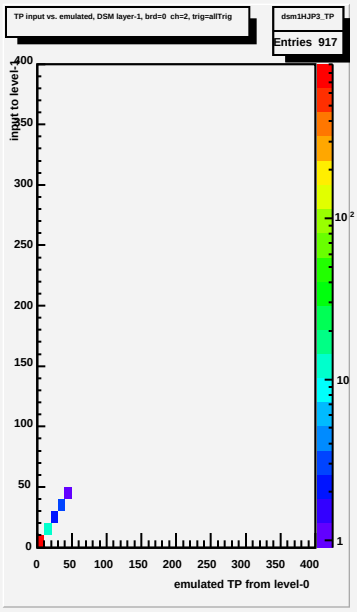

HT input vs.emu, DSM-1, Half Patch 10 (Falk), trig=allTrig
dsm1HJP10_HT
Entries 917
input to level-1
emulated HT from level-0

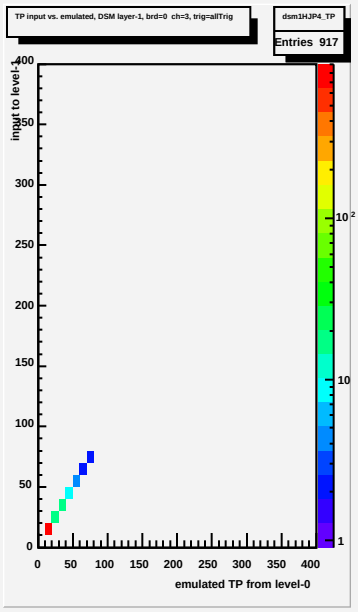

HT input vs.emu, DSM-1, Half Patch 11 (Falk), trig=allTrig
dsm1HJP11_HT
Entries 917
input to level-1
emulated HT from level-0

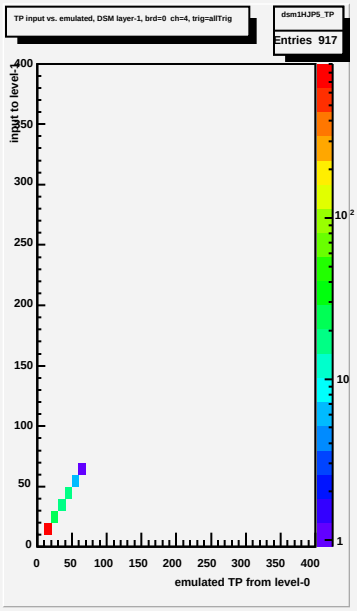

HT input vs.emu, DSM-1, Half Patch 12 (Falk), trig=allTrig
dsm1HJP12_HT
Entries 917
input to level-1
emulated HT from level-0

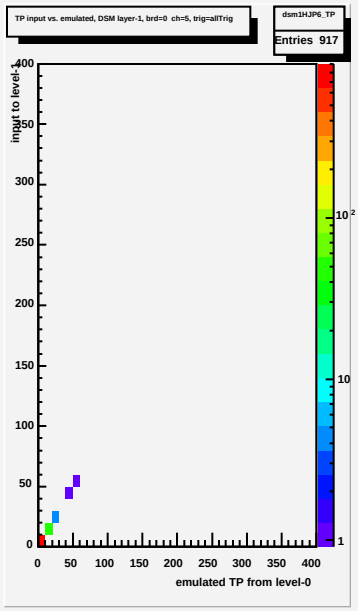

TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries 917
input to level-1
emulated TP from level-0

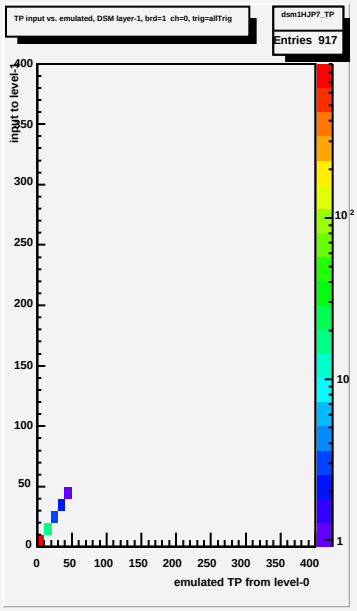

TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries 917
input to level-1
emulated TP from level-0

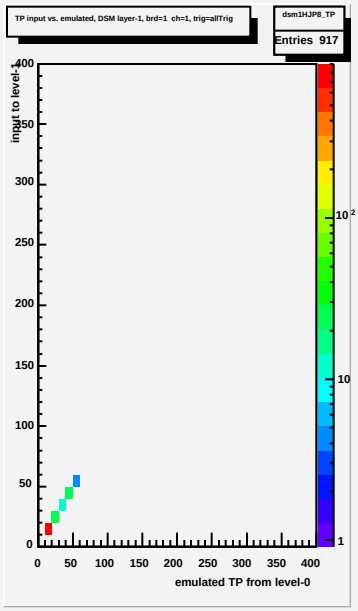

TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries 917
input to level-1
emulated TP from level-0

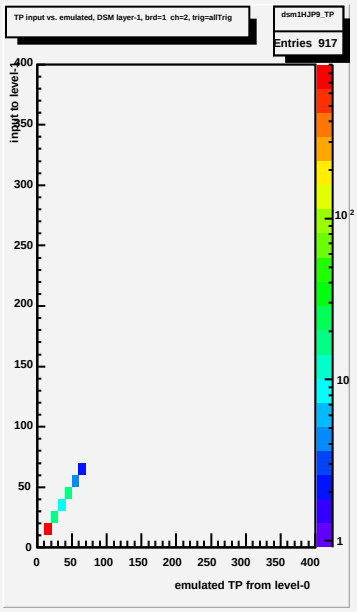

TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig
dsm1HJP4_TP
Entries 917
input to level-1
emulated TP from level-0

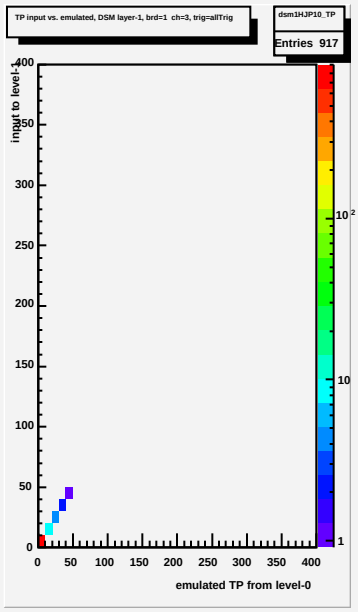

TP input vs. emulated, DSM layer-1, brd=0 ch=4, trig=allTrig
dsm1HJP5_TP
Entries 917
input to level-1
emulated TP from level-0

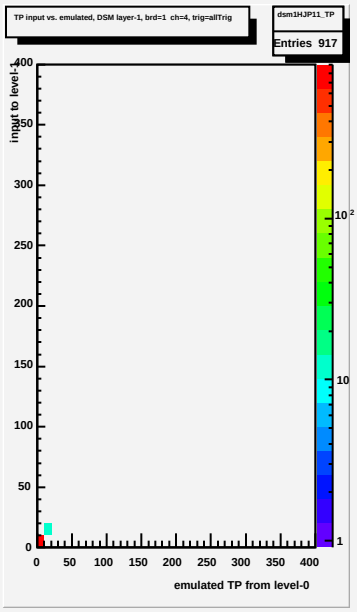

TP input vs. emulated, DSM layer-1, brd=0 ch=5, trig=allTrig
dsm1HJP6_TP
Entries 917
input to level-1
emulated TP from level-0

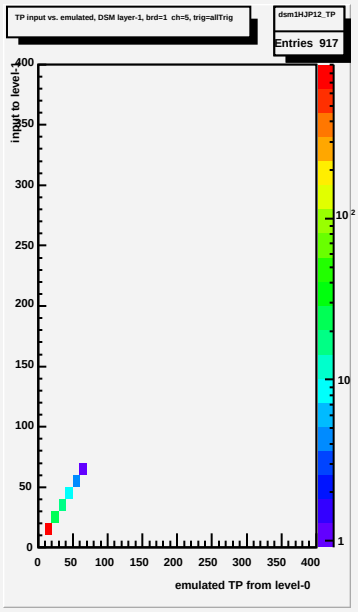

TP input vs. emulated, DSM layer-1, brd=1 ch=0, trig=allTrig
dsm1HJP7_TP
Entries 917
input to level-1
emulated TP from level-0

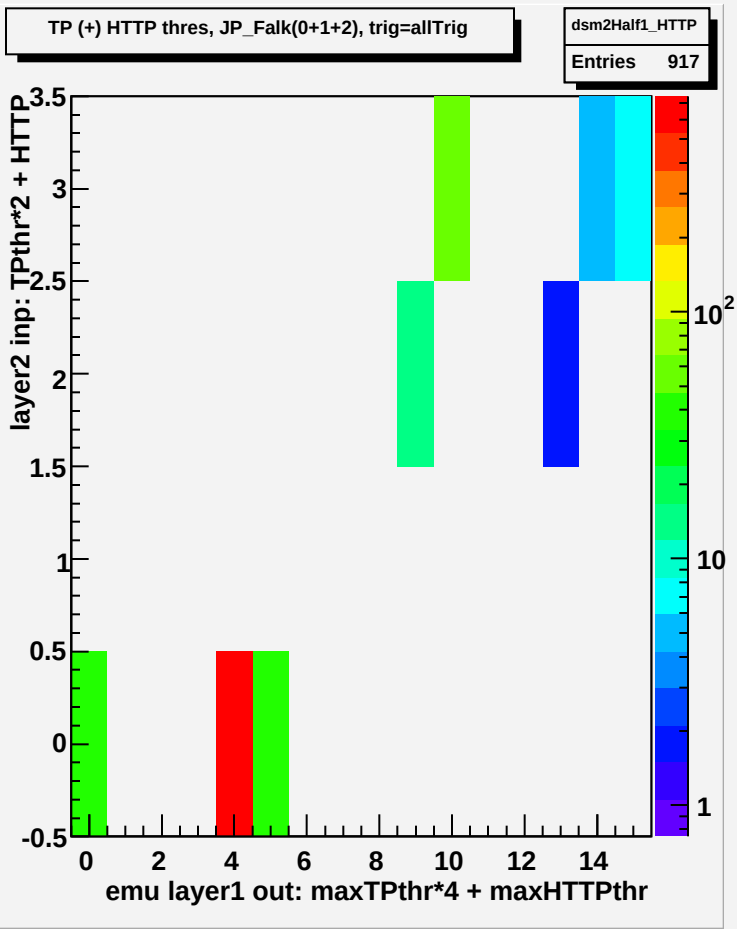

TP input vs. emulated, DSM layer-1, brd=1 ch=1, trig=allTrig
dsm1HJP8_TP
Entries 917
input to level-1
emulated TP from level-0

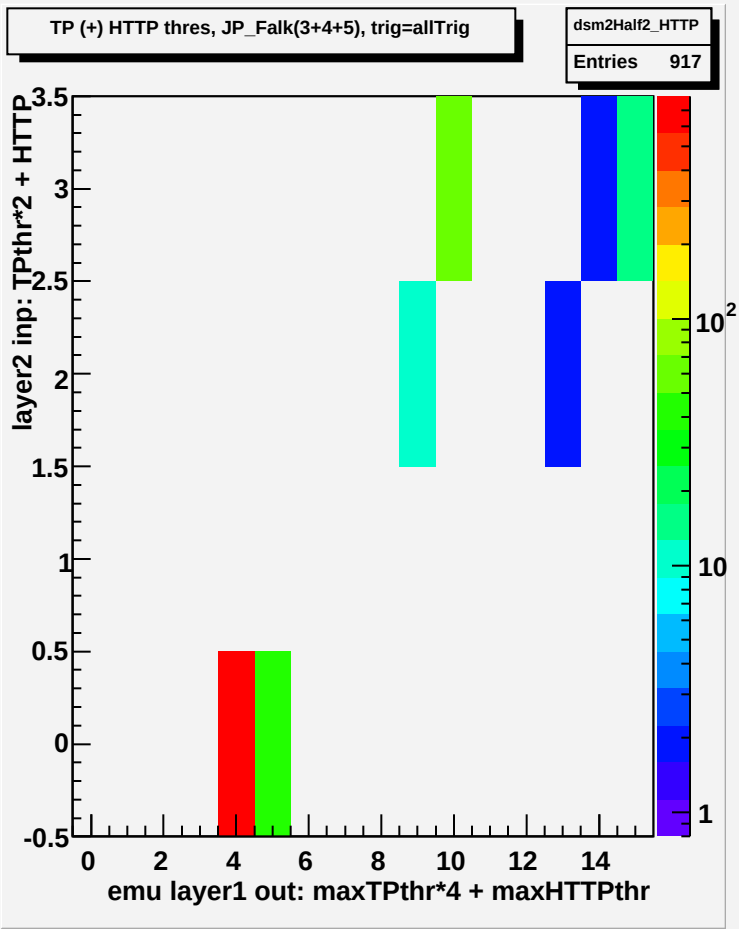

TP input vs. emulated, DSM layer-1, brd=1 ch=2, trig=allTrig
dsm1HJP9_TP
Entries 917
input to level-1
emulated TP from level-0

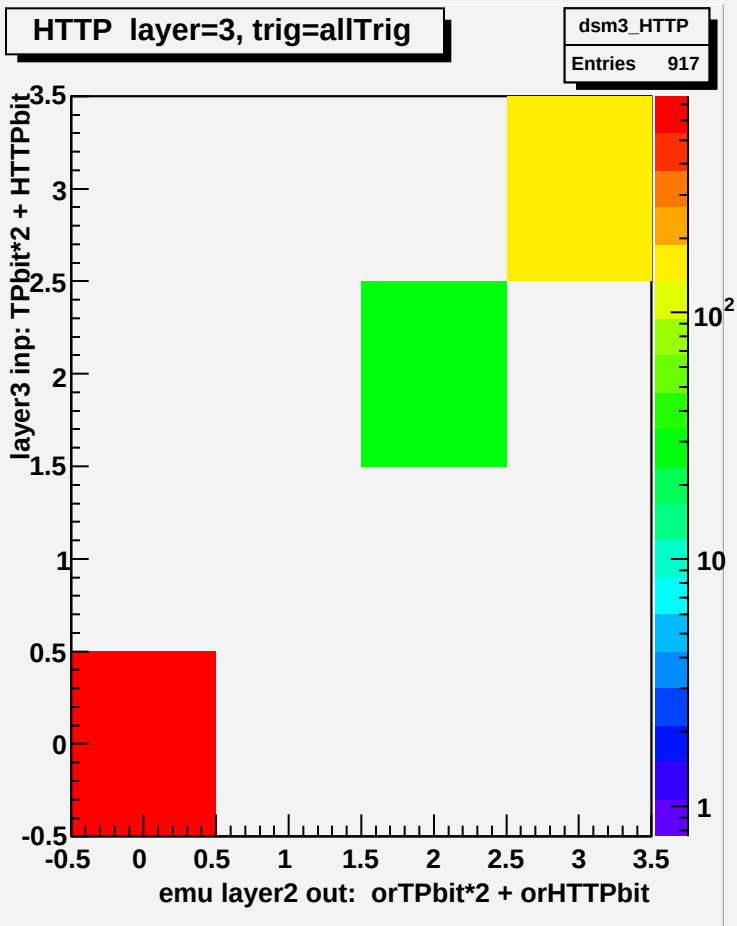

TP input vs. emulated, DSM layer-1, brd=1 ch=3, trig=allTrig
dsm1HJP10_TP
Entries 917
input to level-1
emulated TP from level-0

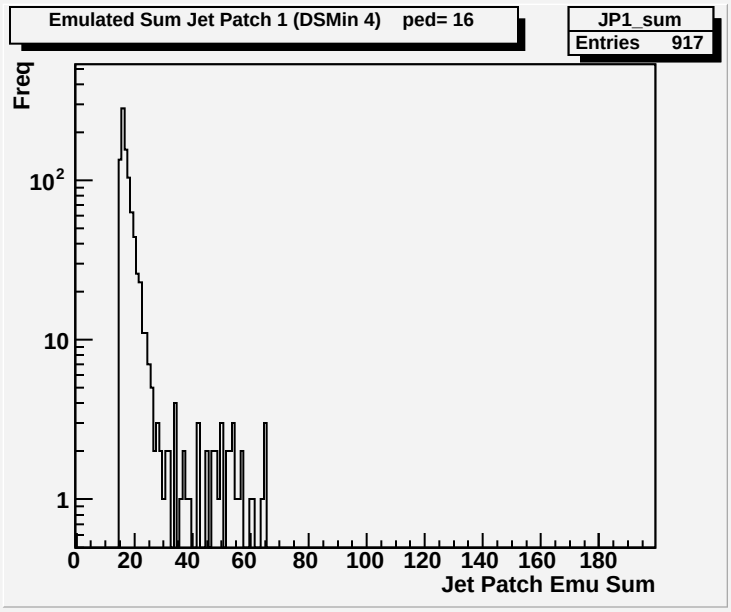

TP input vs. emulated, DSM layer-1, brd=1 ch=4, trig=allTrig
dsm1HJP11_TP
Entries 917
input to level-1
emulated TP from level-0

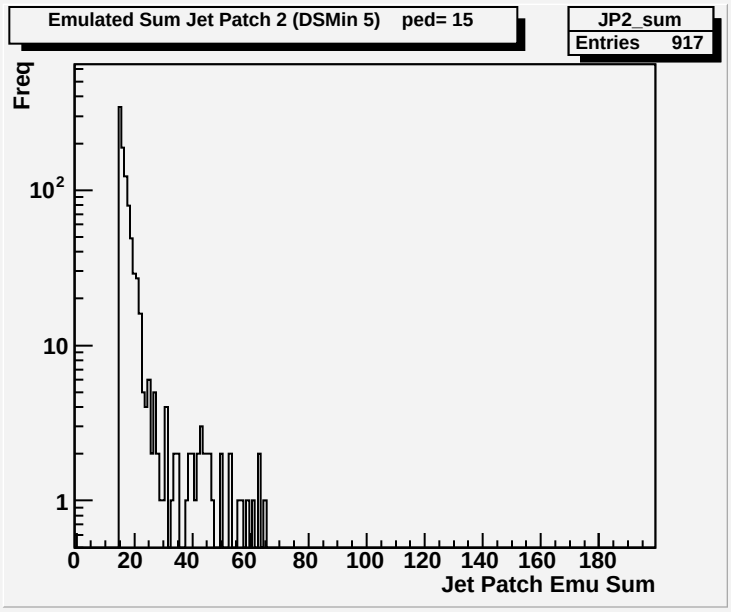

TP input vs. emulated, DSM layer-1, brd=1 ch=5, trig=allTrig
dsm1HJP12_TP
Entries 917
input to level-1
emulated TP from level-0

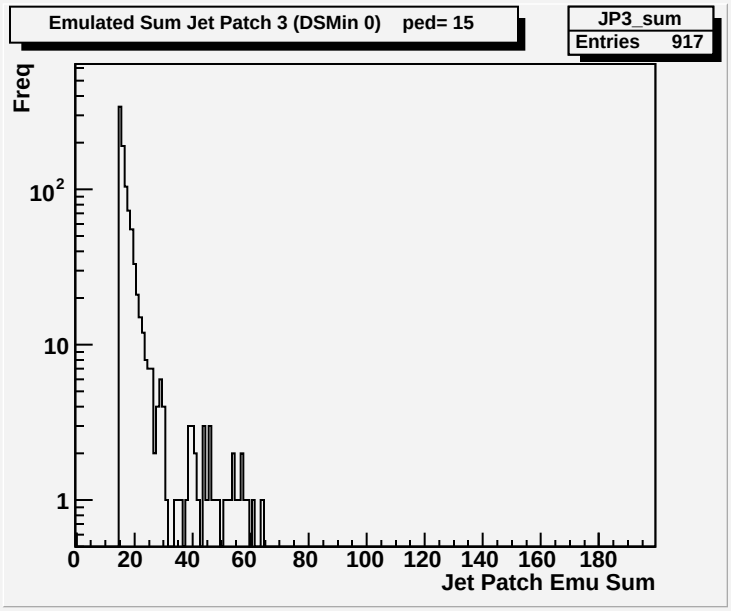

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 917
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

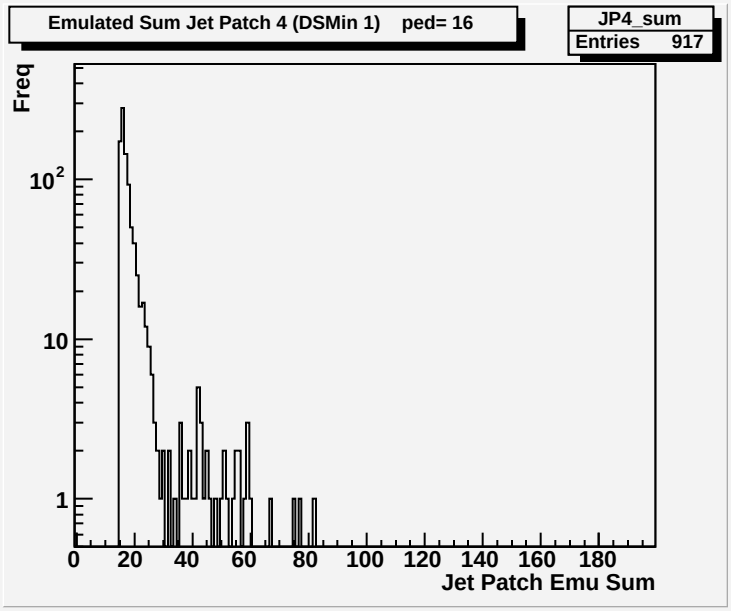

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 917
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

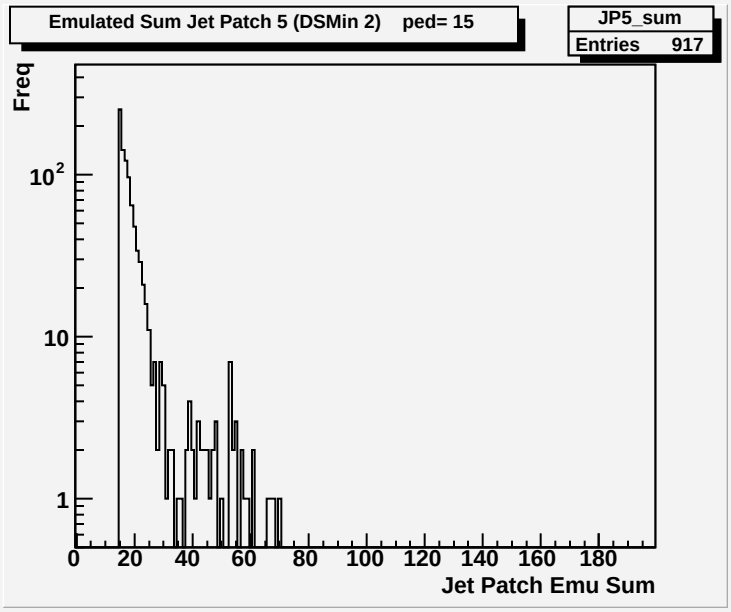

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 917
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

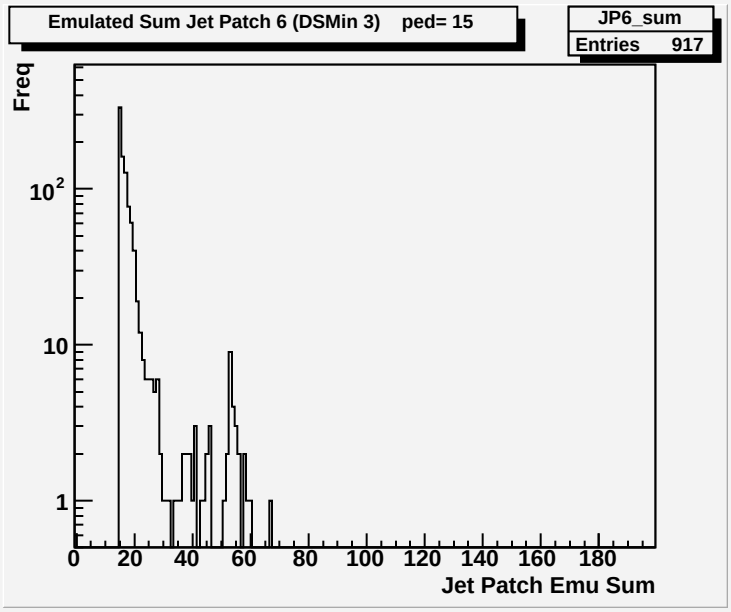

Emulated Sum Jet Patch 1 (DSMin 4) ped= 16
JP1_sum
Entries 917
Freq
Jet Patch Emu Sum

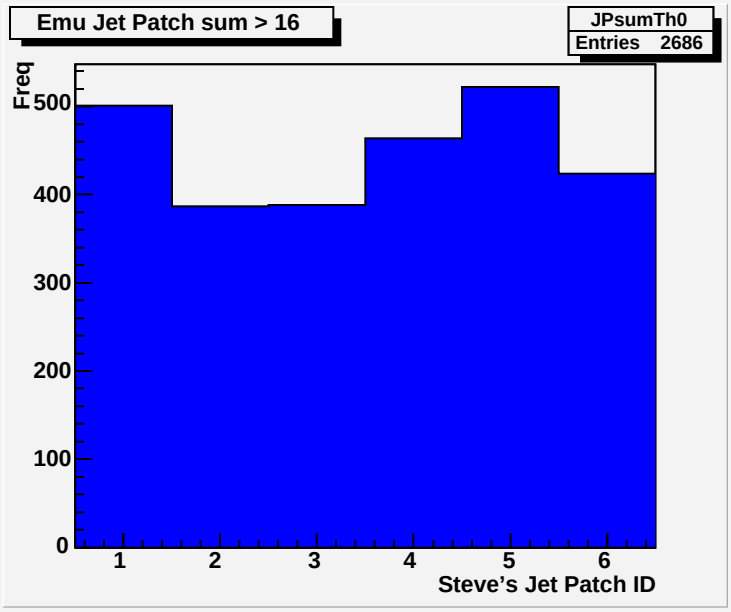

Emulated Sum Jet Patch 2 (DSMin 5) ped= 15
JP2_sum
Entries 917
Freq
Jet Patch Emu Sum

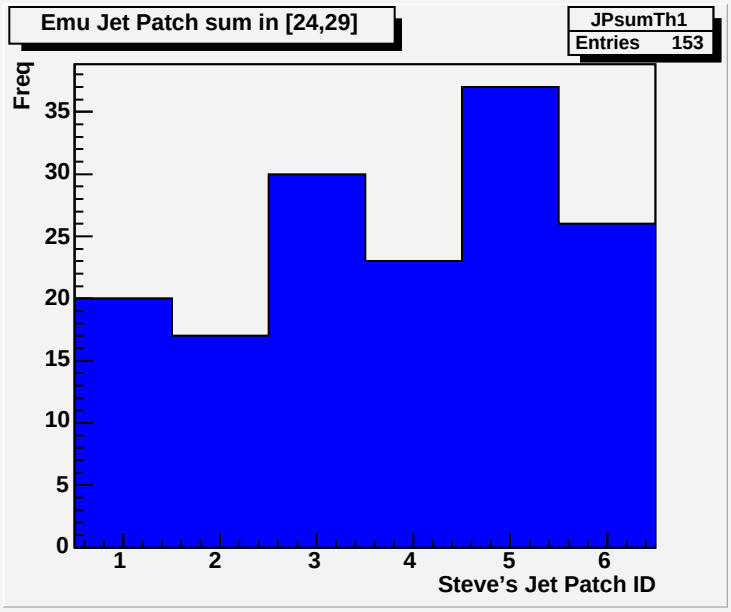

Emulated Sum Jet Patch 3 (DSMin 0) ped= 15
JP3_sum
Entries 917
Freq
Jet Patch Emu Sum

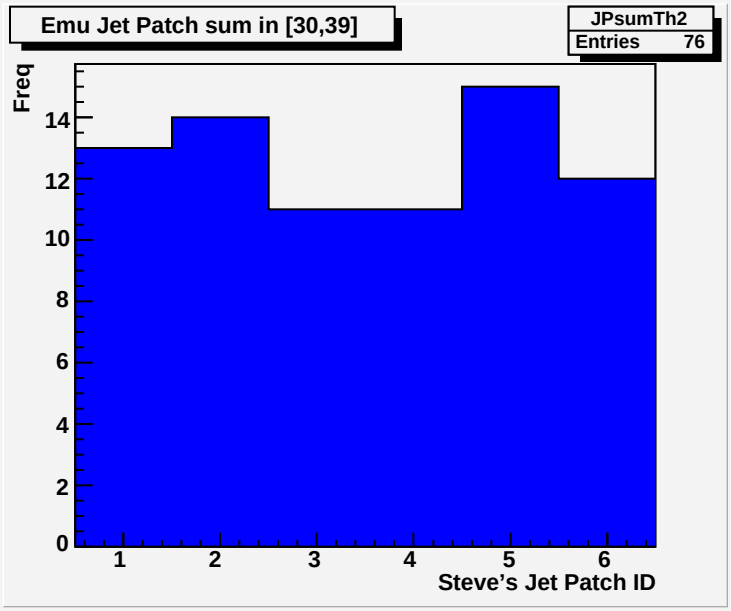

Emulated Sum Jet Patch 4 (DSMin 1) ped= 16
JP4_sum
Entries 917
Freq
Jet Patch Emu Sum

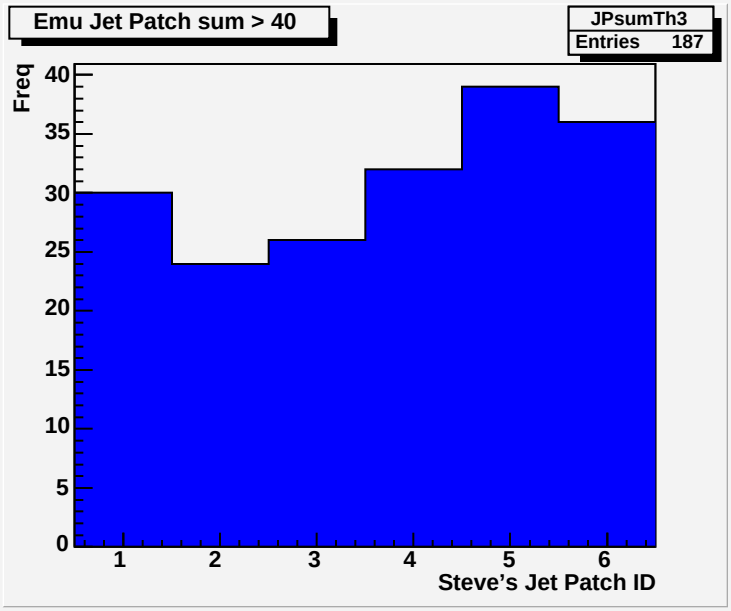

Emulated Sum Jet Patch 5 (DSMin 2) ped= 15
JP5_sum
Entries 917
Freq
Jet Patch Emu Sum

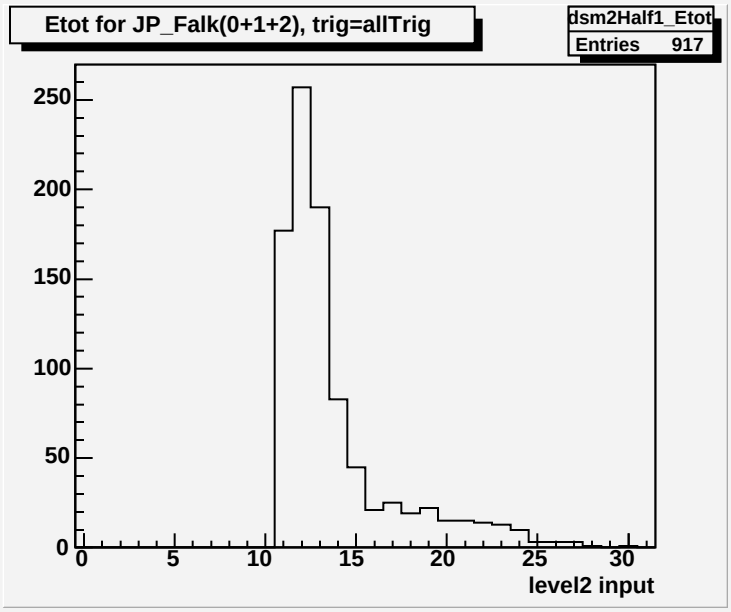

Emulated Sum Jet Patch 6 (DSMin 3) ped= 15
JP6_sum
Entries 917
Freq
Jet Patch Emu Sum

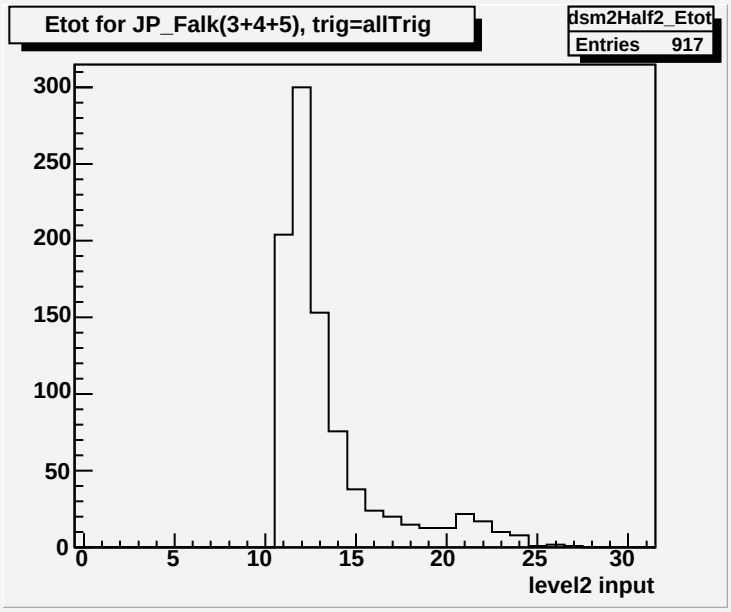

Emu Jet Patch sum > 16
JPsumTh0
Entries 2686
Freq
Steve's Jet Patch ID

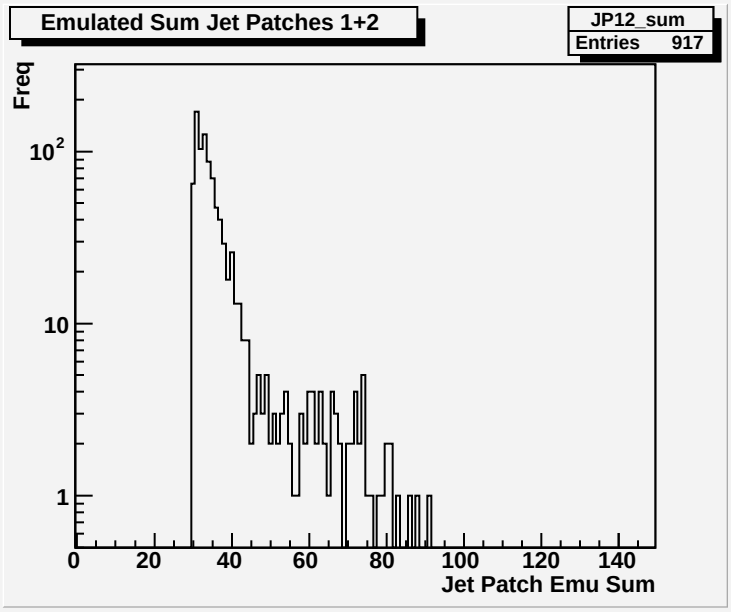

Emu Jet Patch sum in [24,29]
JPsumTh1
Entries 153
Freq
Steve's Jet Patch ID

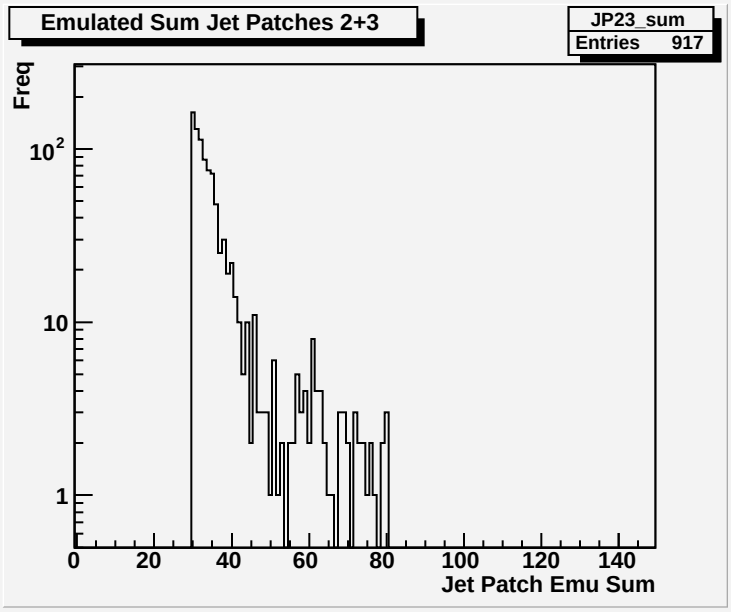

Emu Jet Patch sum in [30,39]
JPsumTh2
Entries 76
Freq
Steve's Jet Patch ID

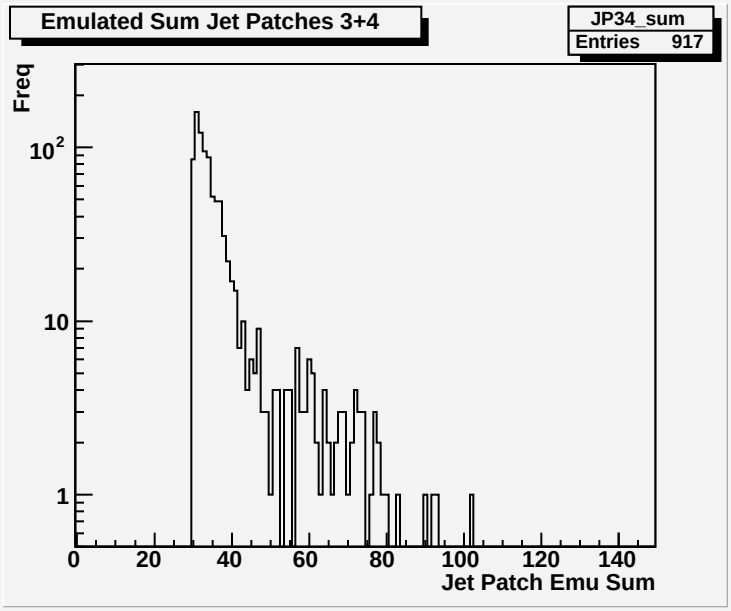

Emu Jet Patch sum > 40
JPsumTh3
Entries 187
Freq
Steve's Jet Patch ID

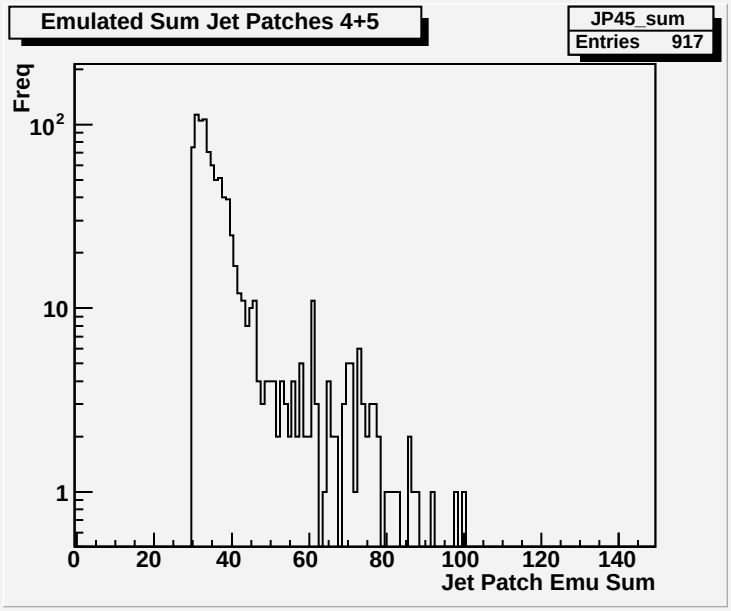

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 917
level2 input

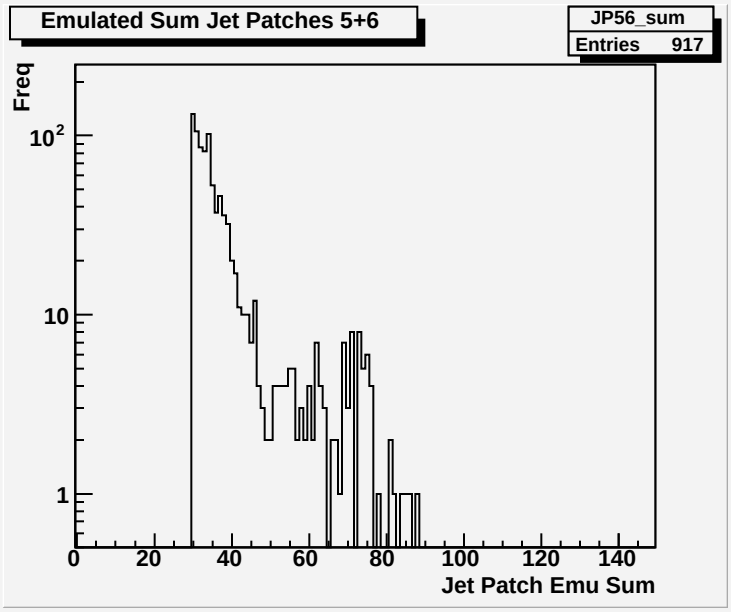

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 917
level2 input

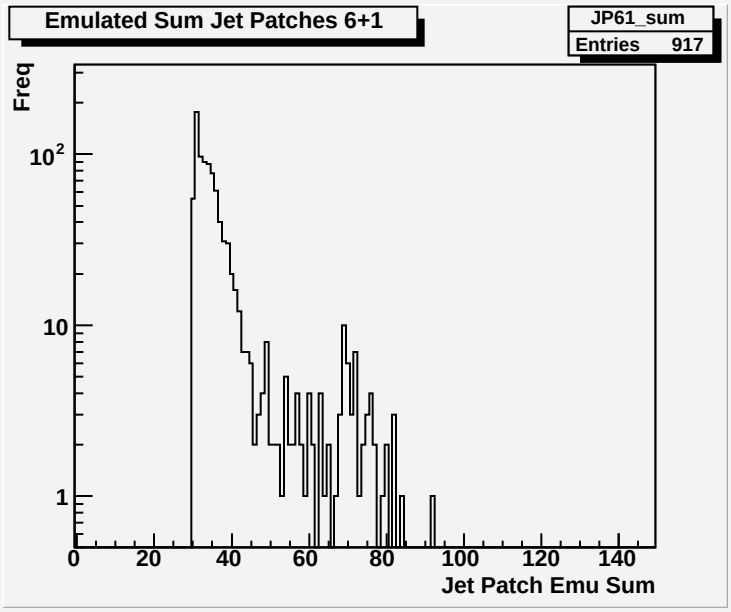

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 917
Freq
Jet Patch Emu Sum

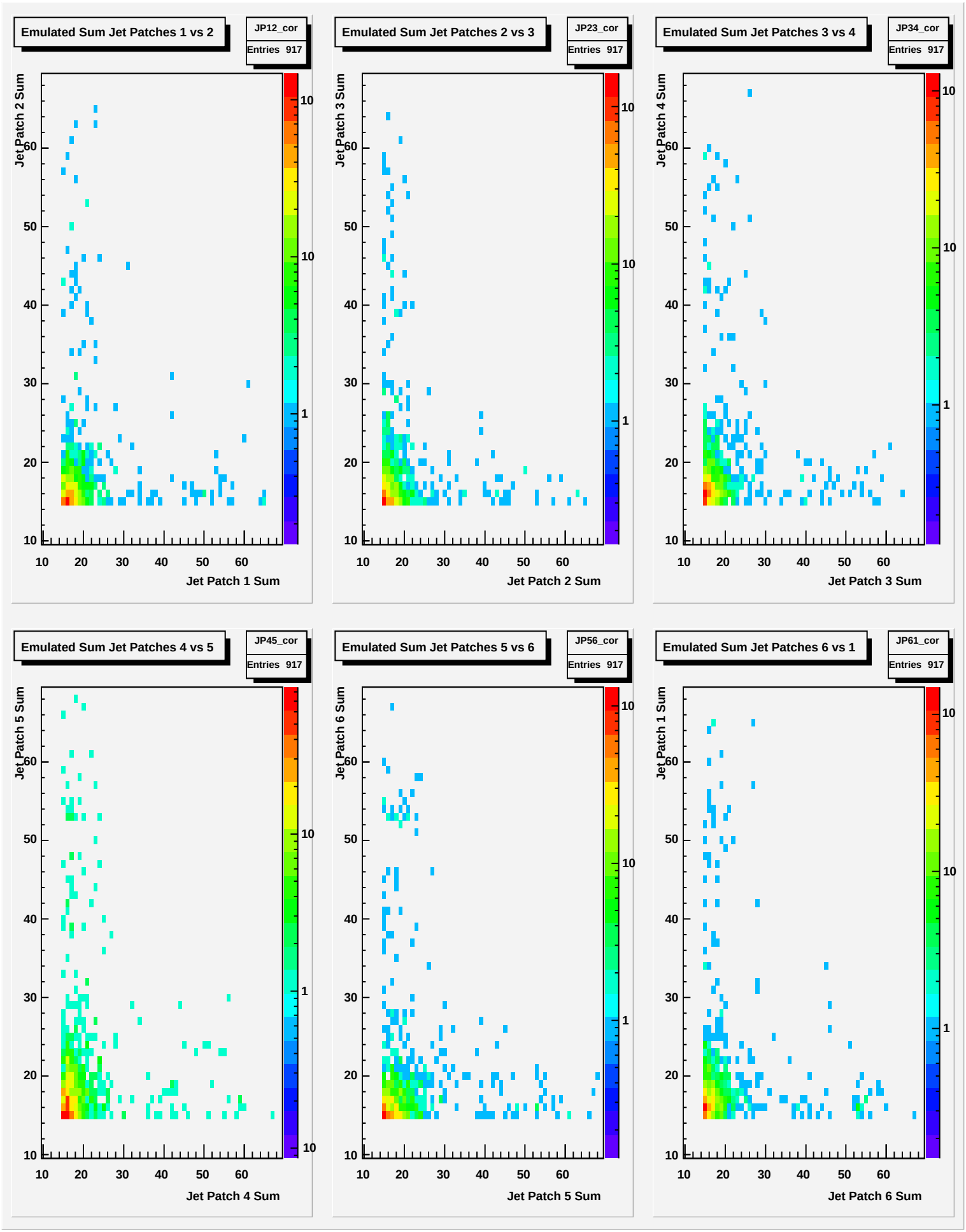

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 917
Freq
Jet Patch Emu Sum

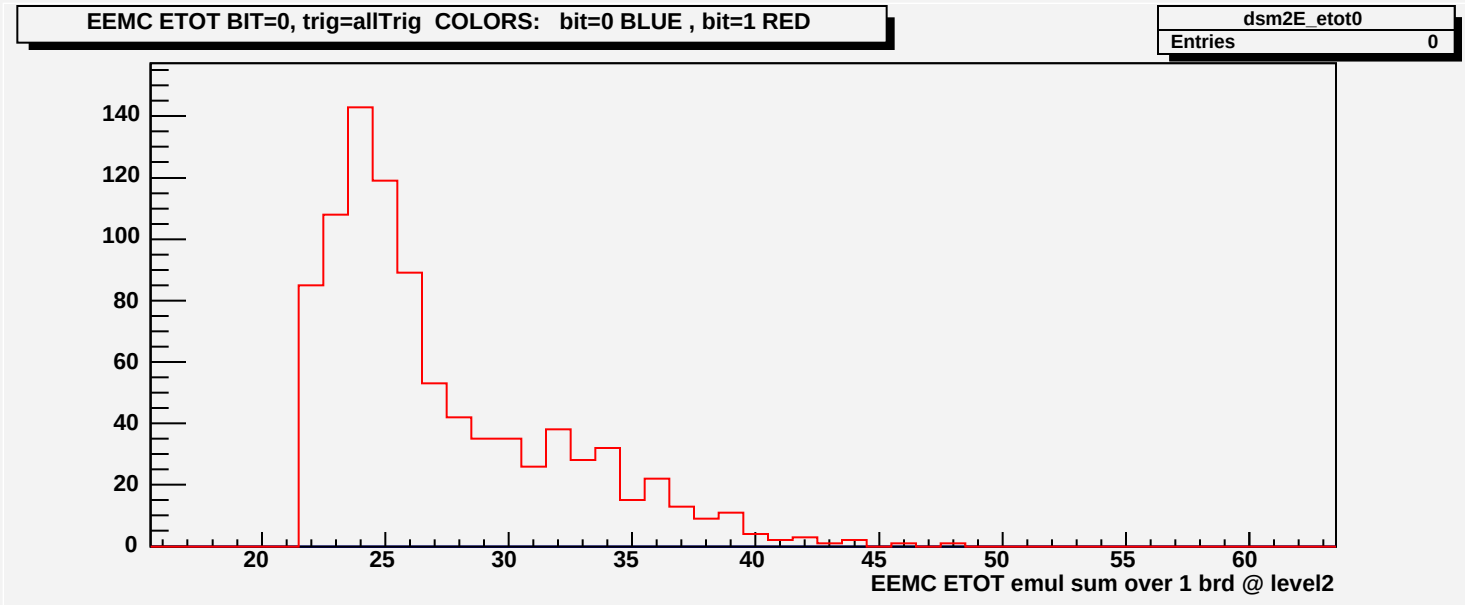

Emulated Sum Jet Patches 3+4
JP34_sum
Entries 917
Freq
Jet Patch Emu Sum

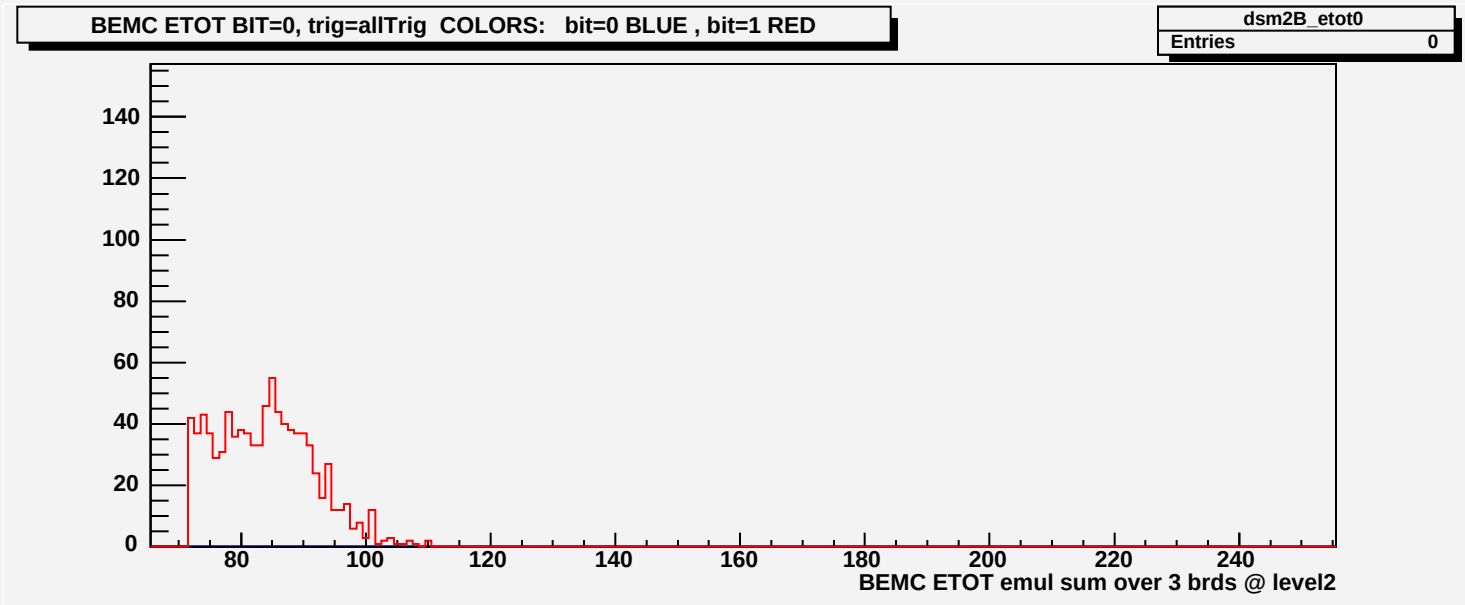

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 917
Freq
Jet Patch Emu Sum

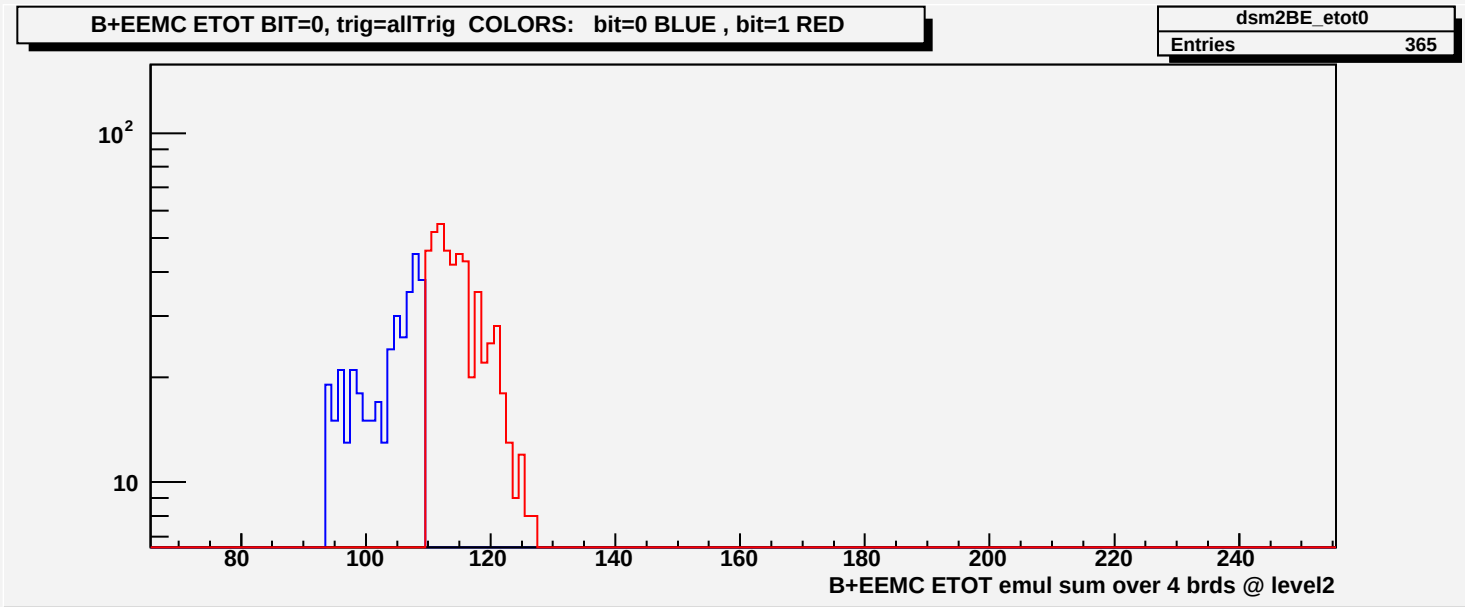

Emulated Sum Jet Patches 5+6
JP56_sum
Entries 917
Freq
Jet Patch Emu Sum

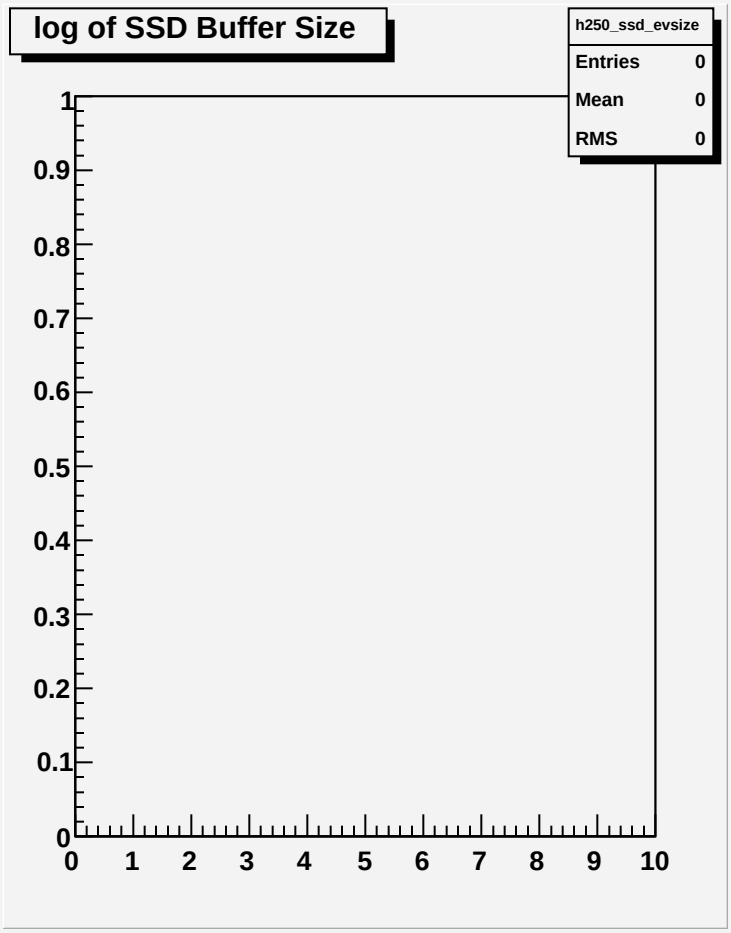

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 917
Freq
Jet Patch Emu Sum

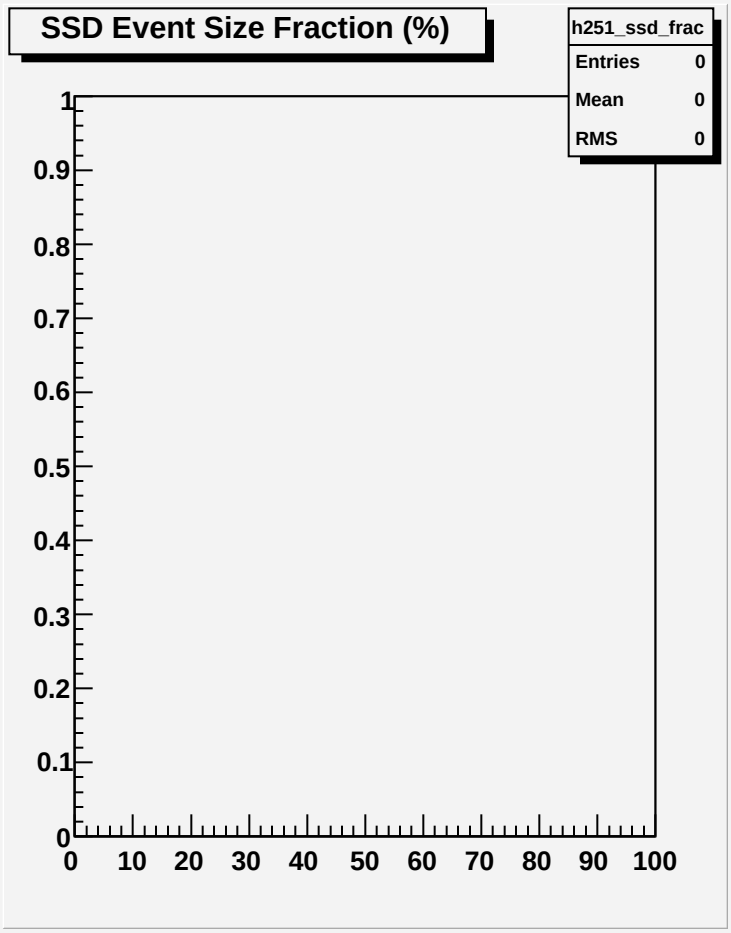

Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 917
Jet Patch 2 Sum
Jet Patch 1 Sum
Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 917
Jet Patch 3 Sum
Jet Patch 2 Sum
Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 917
Jet Patch 4 Sum
Jet Patch 3 Sum
Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 917
Jet Patch 5 Sum
Jet Patch 4 Sum
Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 917
Jet Patch 6 Sum
Jet Patch 5 Sum
Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 917
Jet Patch 1 Sum
Jet Patch 6 Sum

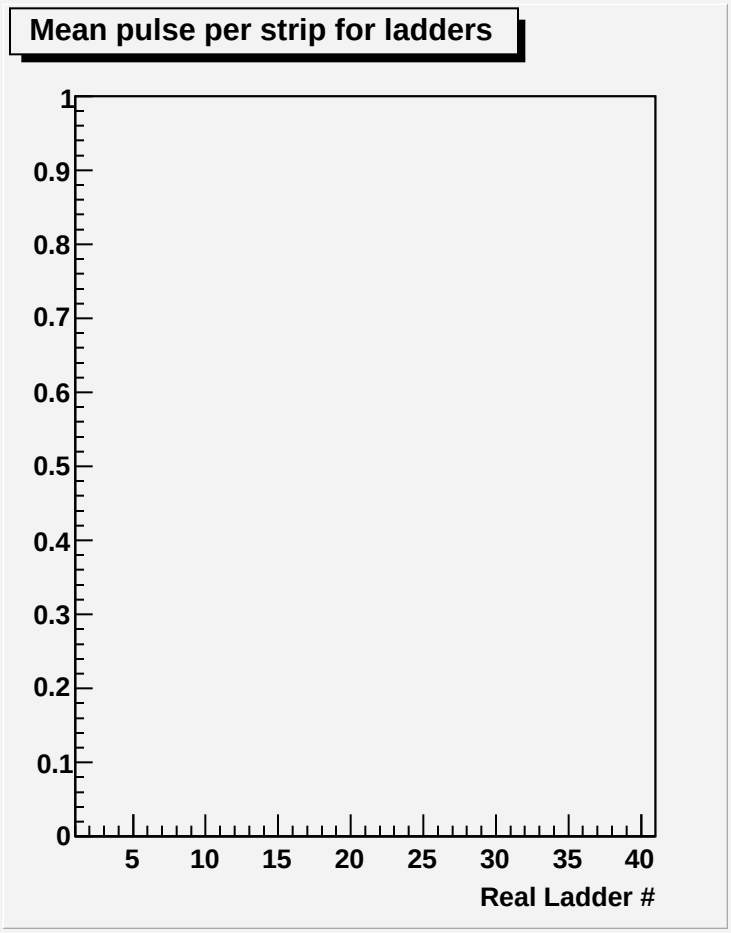

EEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2E_etot0
Entries 0
140
120
100
80
60
40
20
0
20
25
30
35
40
45
50
55
60
EEMC ETOT emul sum over 1 brd @ level2

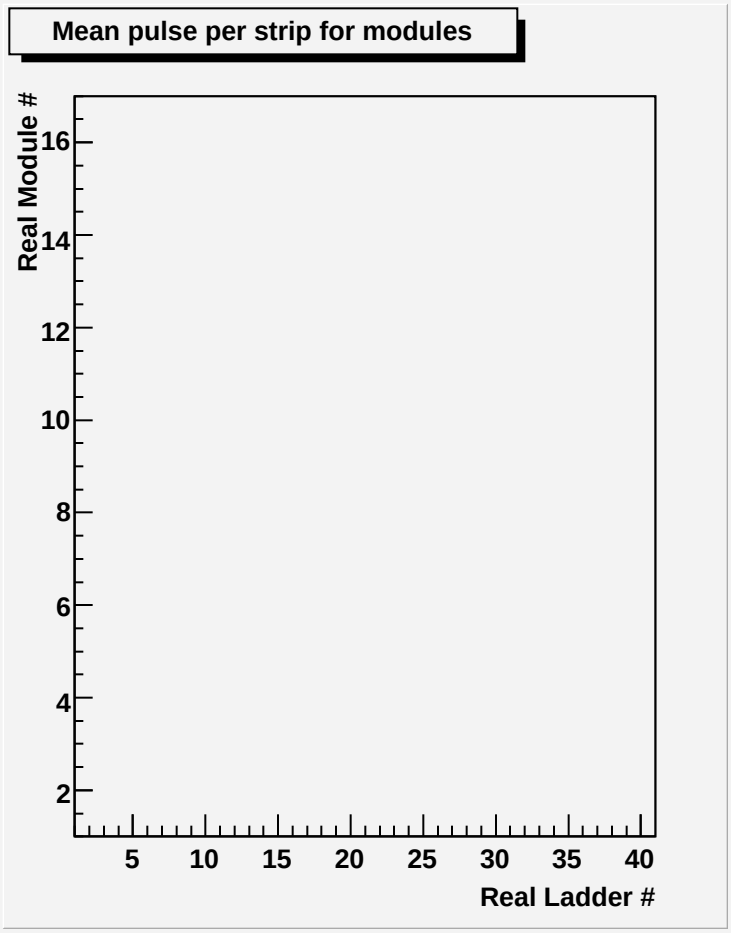

BEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2B_etot0
Entries 0
140
120
100
80
60
40
20
0
80
100
120
140
160
180
200
220
240
BEMC ETOT emul sum over 3 brds @ level2

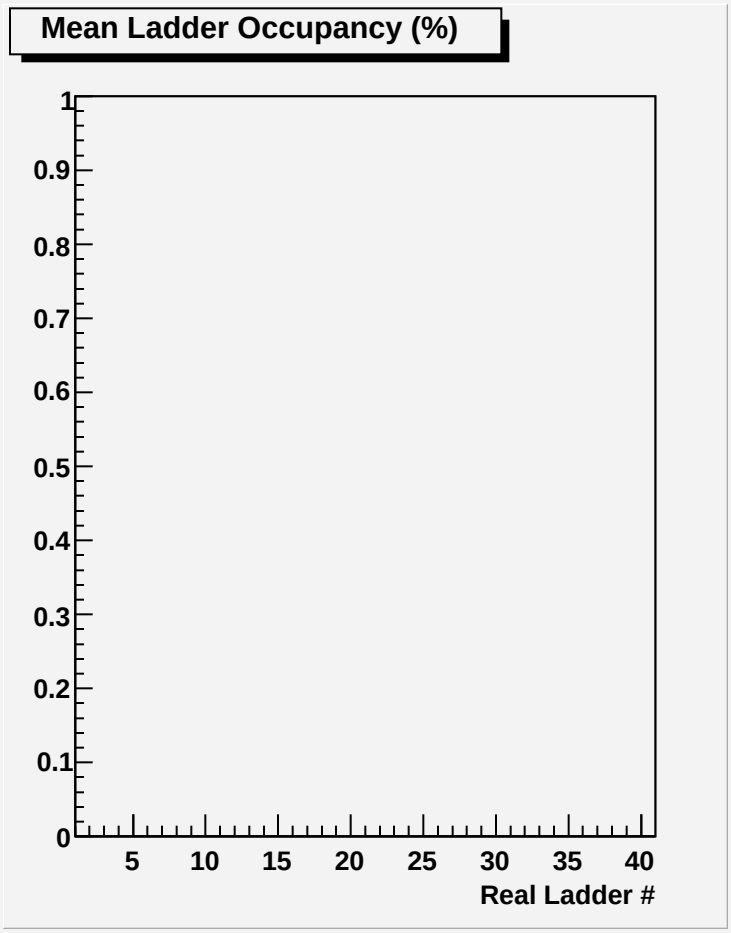

B+EEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2BE_etot0
Entries 365
10^2
10
80
100
120
140
160
180
200
220
240
B+EEMC ETOT emul sum over 4 brds @ level2

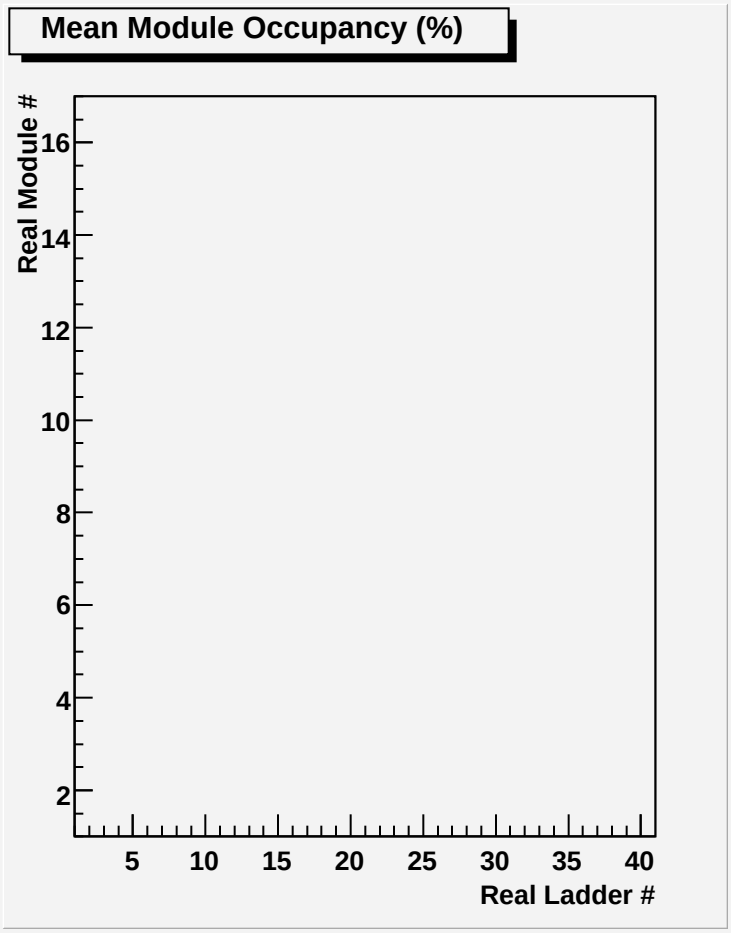

log of SSD Buffer Size
h250_ssd_evsize
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10

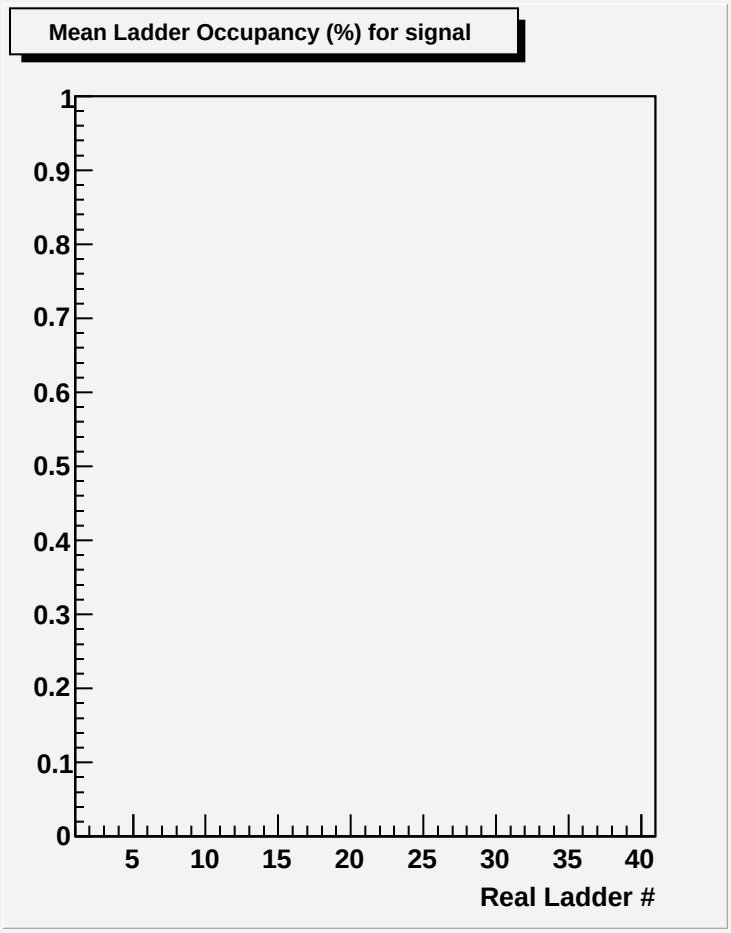

SSD Event Size Fraction (%)
h251_ssd_frac
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10 20 30 40 50 60 70 80 90 100

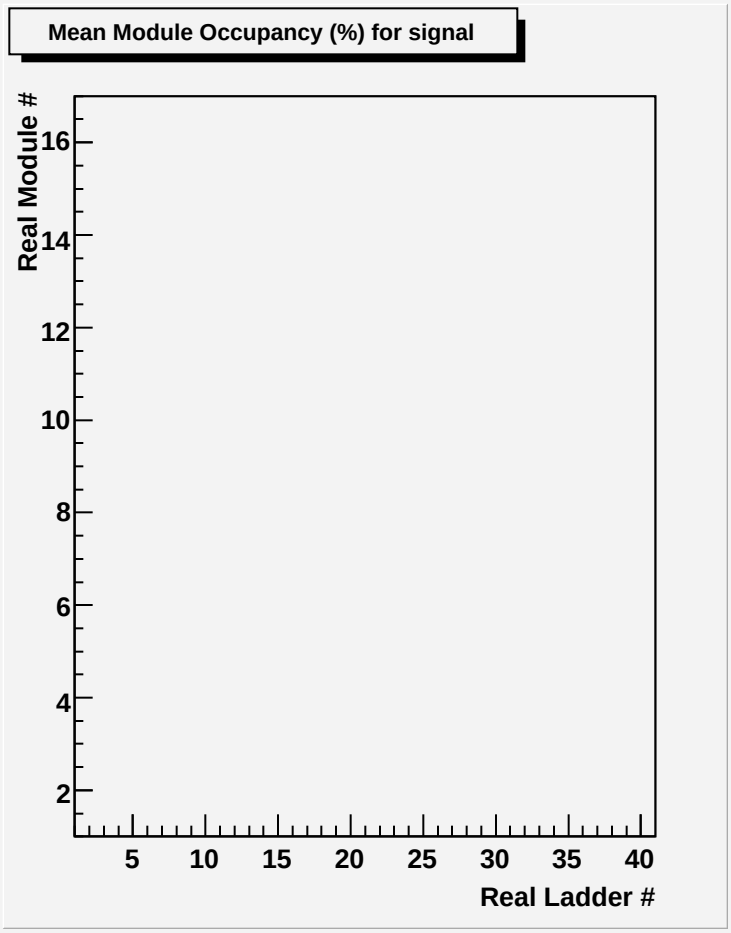

Mean pulse per strip for ladders
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25 30 35 40
Real Ladder #

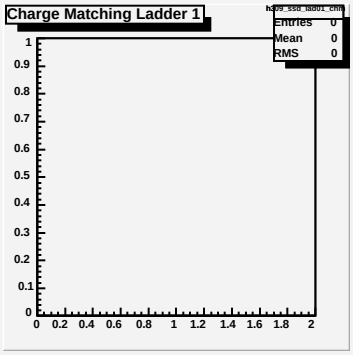

Mean pulse per strip for modules
Real Module #
16
14
12
10
8
6
4
2
5 10 15 20 25 30 35 40
Real Ladder #

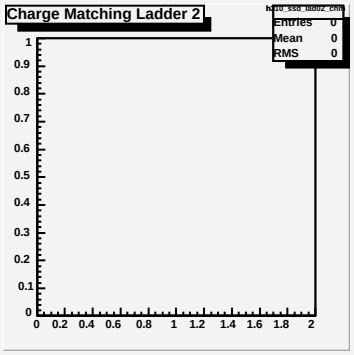

Mean Ladder Occupancy (%)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
10
15
20
25
30
35
40
Real Ladder #

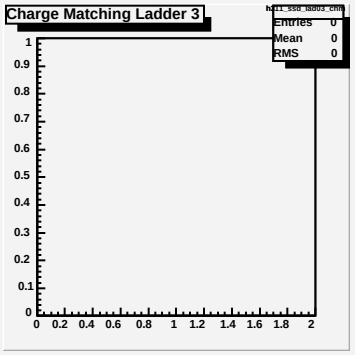

Mean Module Occupancy (%)
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #

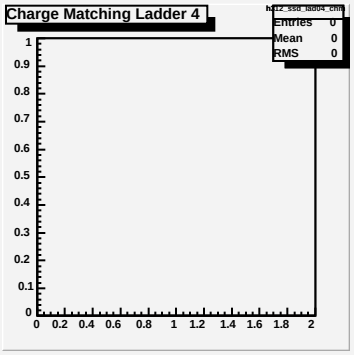

Mean Ladder Occupancy (%) for signal
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
10
15
20
25
30
35
40
Real Ladder #

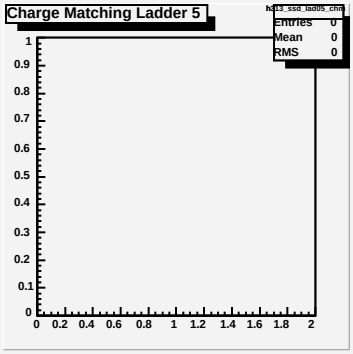

Mean Module Occupancy (%) for signal
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #

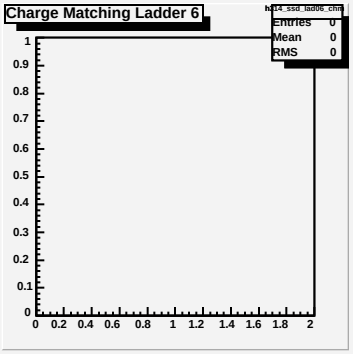

Charge Matching Ladder 1
h209_ssd_lad01_chn
Entries 0
Mean 0
RMS 0

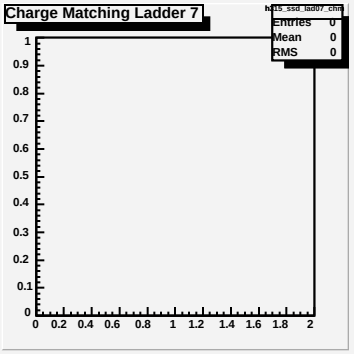

Charge Matching Ladder 2
h210_ssd_lad02_chn
Entries 0
Mean 0
RMS 0

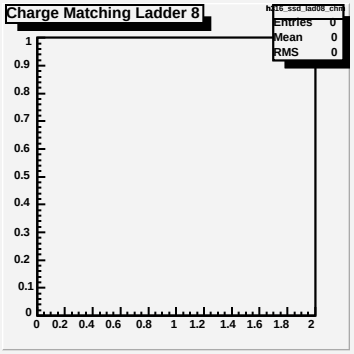

Charge Matching Ladder 3
h211_ssd_lad03_chn
Entries 0
Mean 0
RMS 0

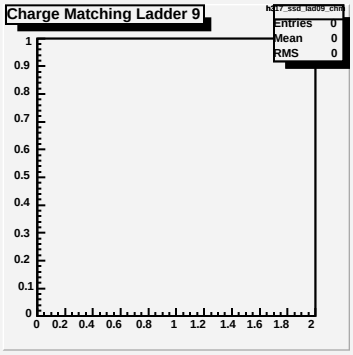

Charge Matching Ladder 4
h212_ssd_lad04_chn
Entries 0
Mean 0
RMS 0

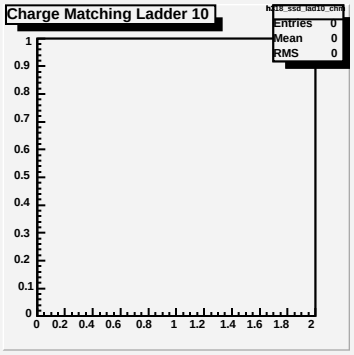

Charge Matching Ladder 5
h213_ssd_lad05_chn
Entries 0
Mean 0
RMS 0

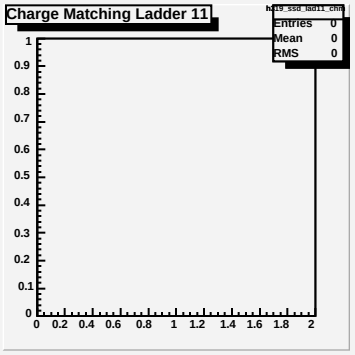

Charge Matching Ladder 6
h214_ssd_lad06_chn
Entries 0
Mean 0
RMS 0

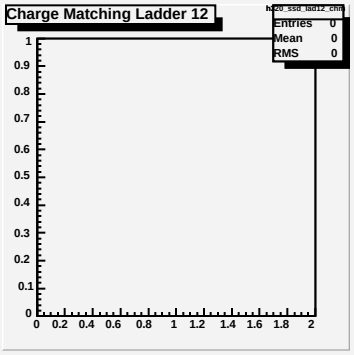

Charge Matching Ladder 7
h215_ssd_lad07_chn
Entries 0
Mean 0
RMS 0

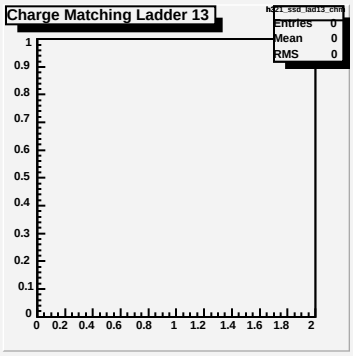

Charge Matching Ladder 8
h216_ssd_lad08_chn
Entries 0
Mean 0
RMS 0

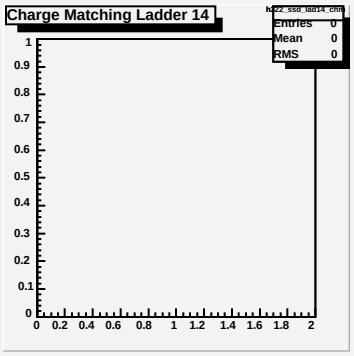

Charge Matching Ladder 9
h217_ssd_lad09_chn
Entries 0
Mean 0
RMS 0

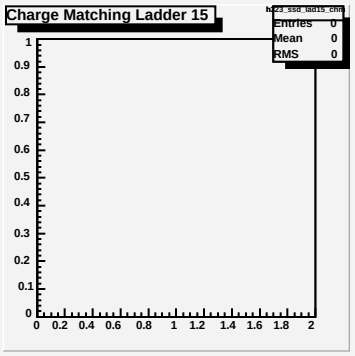

Charge Matching Ladder 10
h218_ssd_lad10_chn
Entries 0
Mean 0
RMS 0

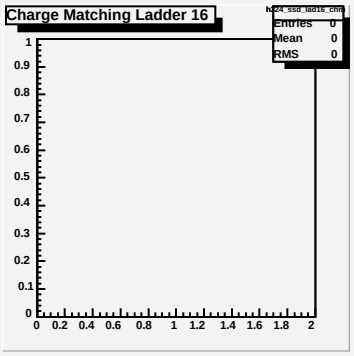

Charge Matching Ladder 11
h219_ssd_lad11_chn
Entries 0
Mean 0
RMS 0

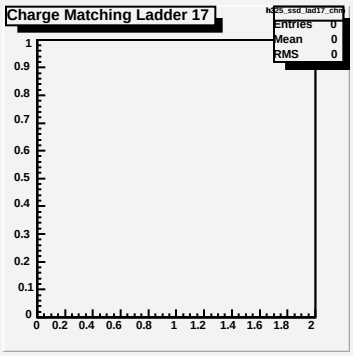

Charge Matching Ladder 12
h220_ssd_lad12_chn
Entries 0
Mean 0
RMS 0

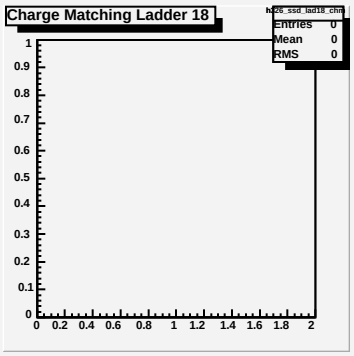

Charge Matching Ladder 13
h221_ssd_lad13_chn
Entries 0
Mean 0
RMS 0

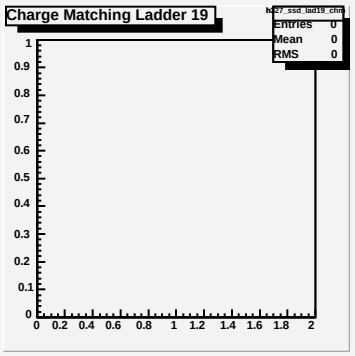

Charge Matching Ladder 14
h222_ssd_lad14_chn
Entries 0
Mean 0
RMS 0

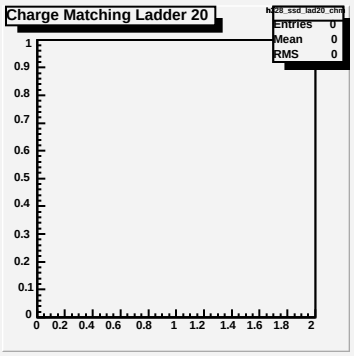

Charge Matching Ladder 15
h223_ssd_lad15_chn
Entries 0
Mean 0
RMS 0

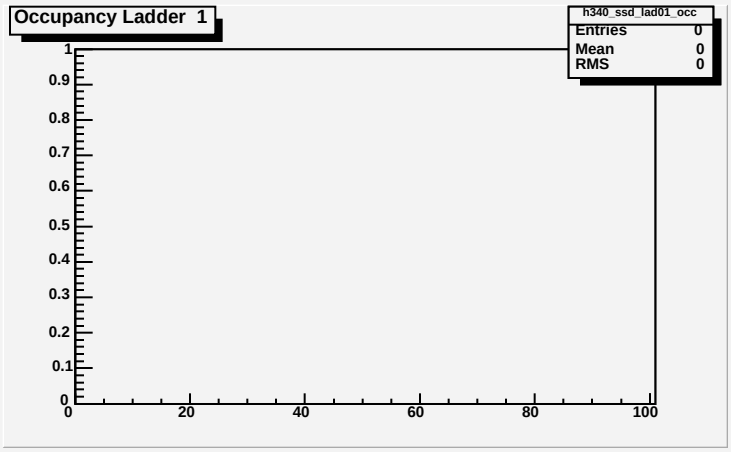

Charge Matching Ladder 16
h224_ssd_lad16_chn
Entries 0
Mean 0
RMS 0

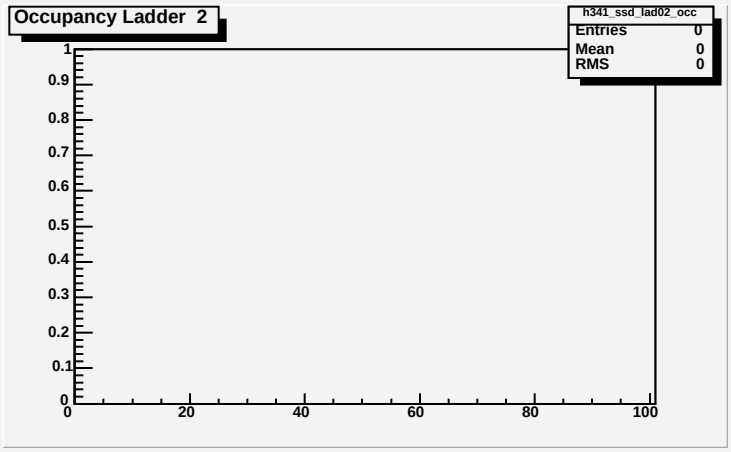

Charge Matching Ladder 17
h225_ssd_lad17_chn
Entries 0
Mean 0
RMS 0


Charge Matching Ladder 18
h226_ssd_lad18_chn
Entries 0
Mean 0
RMS 0


Charge Matching Ladder 19
h227_ssd_lad19_chn
Entries 0
Mean 0
RMS 0


Charge Matching Ladder 20
h228_ssd_lad20_chn
Entries 0
Mean 0
RMS 0


Occupancy Ladder 1
h340_ssd_lad01_occ
Entries 0
Mean 0
RMS 0

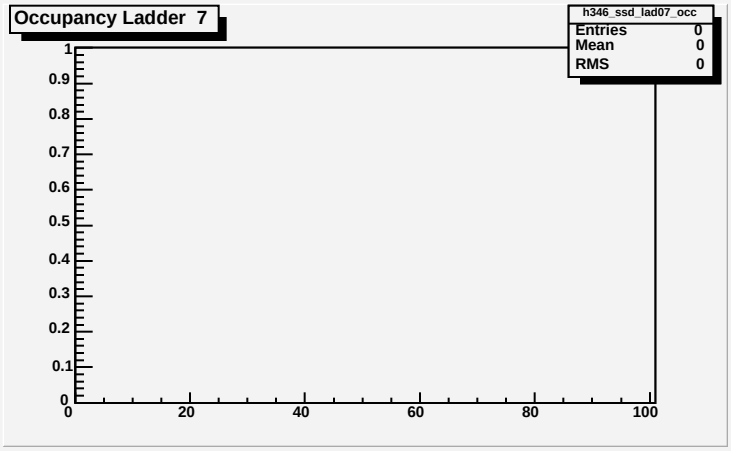

Occupancy Ladder 2
h341_ssd_lad02_occ
Entries 0
Mean 0
RMS 0

Occupancy Ladder 3
h342_ssd_lad03_occ
Entries 0
Mean 0
RMS 0

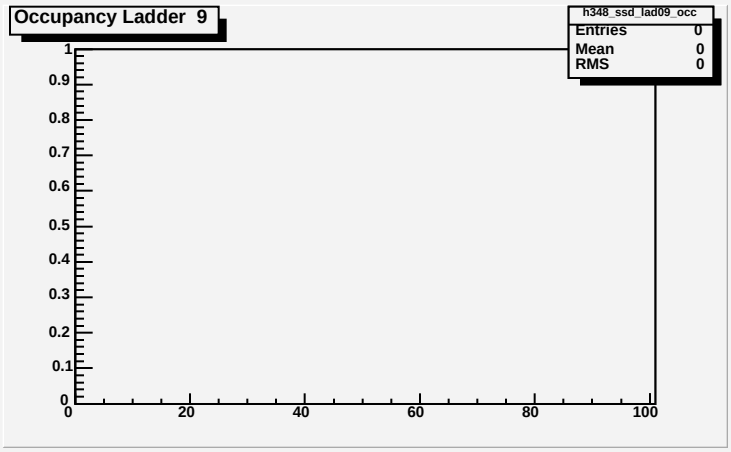
Occupancy Ladder 4
h343_ssd_lad04_occ
Entries 0
Mean 0
RMS 0

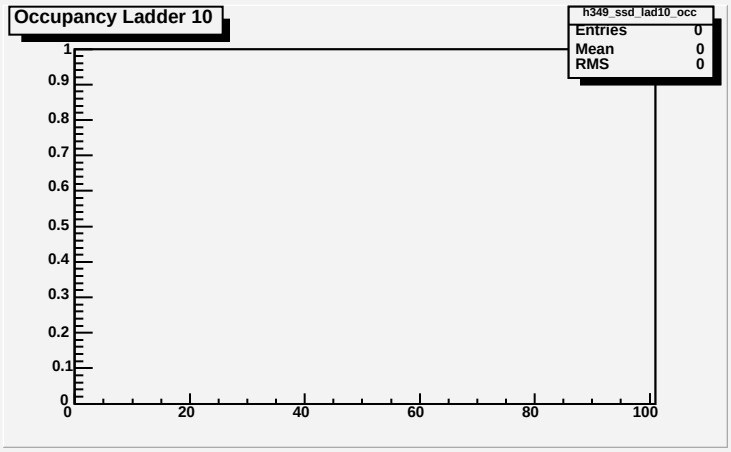
Occupancy Ladder 5
h344_ssd_lad05_occ
Entries 0
Mean 0
RMS 0

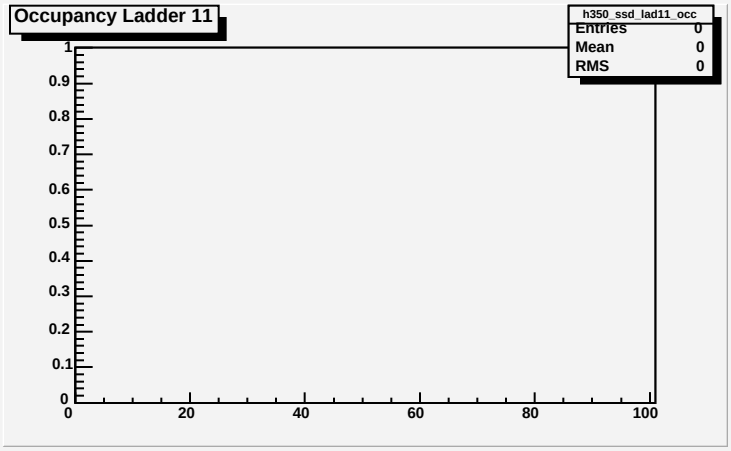
Occupancy Ladder 6
h345_ssd_lad06_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 7
h346_ssd_lad07_occ
Entries 0
Mean 0
RMS 0

Occupancy Ladder 8
h347_ssd_lad08_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 9
h348_ssd_lad09_occ
Entries 0
Mean 0
RMS 0

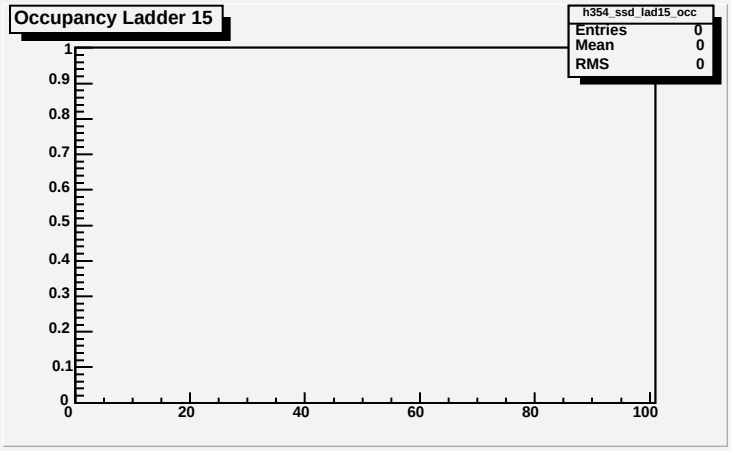

Occupancy Ladder 10
h349_ssd_lad10_occ
Entries 0
Mean 0
RMS 0

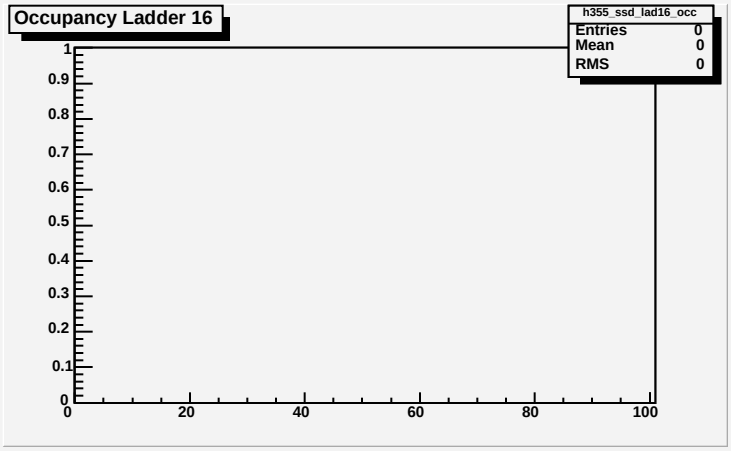

Occupancy Ladder 11
h350_ssd_lad11_occ
Entries 0
Mean 0
RMS 0

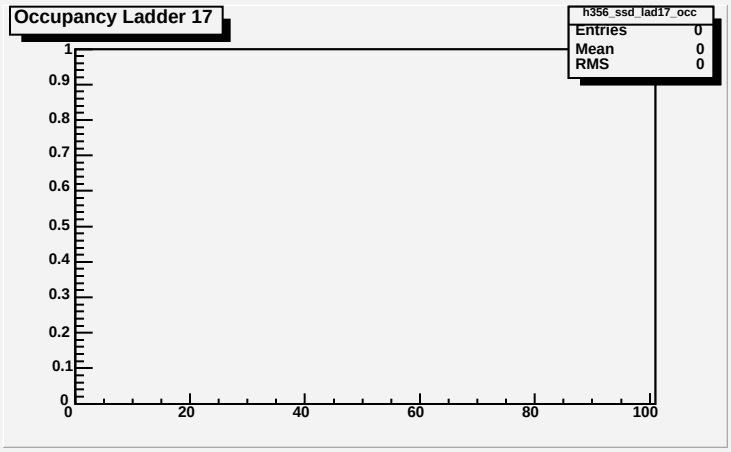
Occupancy Ladder 12
h351_ssd_lad12_occ
Entries 0
Mean 0
RMS 0

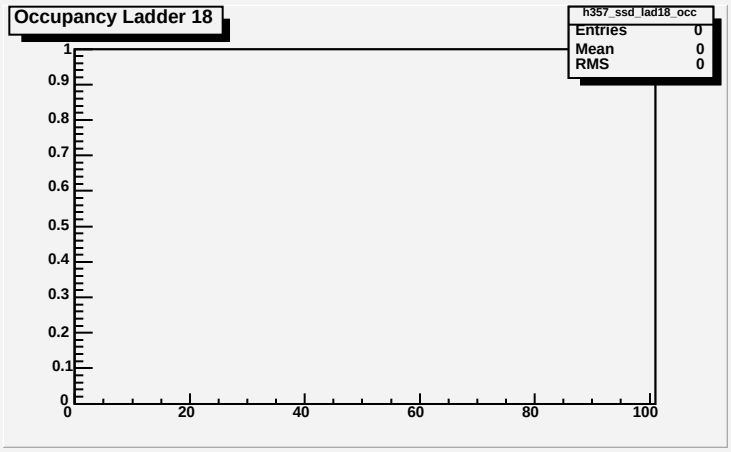
Occupancy Ladder 13
h352_ssd_lad13_occ
Entries 0
Mean 0
RMS 0

Occupancy Ladder 14
h353_ssd_lad14_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 15
h354_ssd_lad15_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 16
h355_ssd_lad16_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 17
h356_ssd_lad17_occ
Entries 0
Mean 0
RMS 0

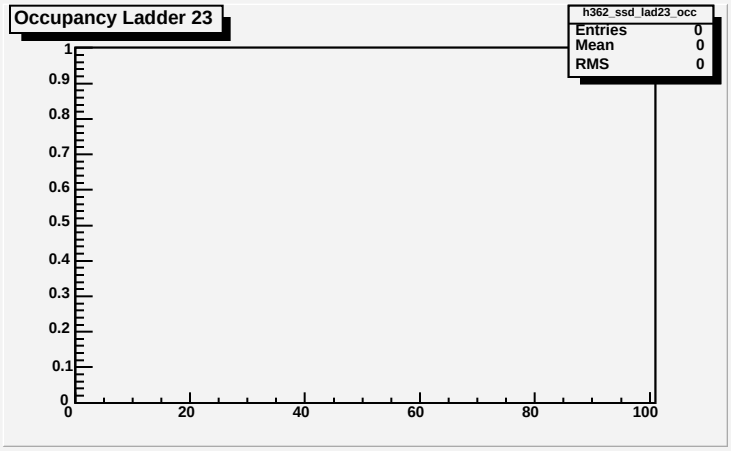

Occupancy Ladder 18
h357_ssd_lad18_occ
Entries 0
Mean 0
RMS 0

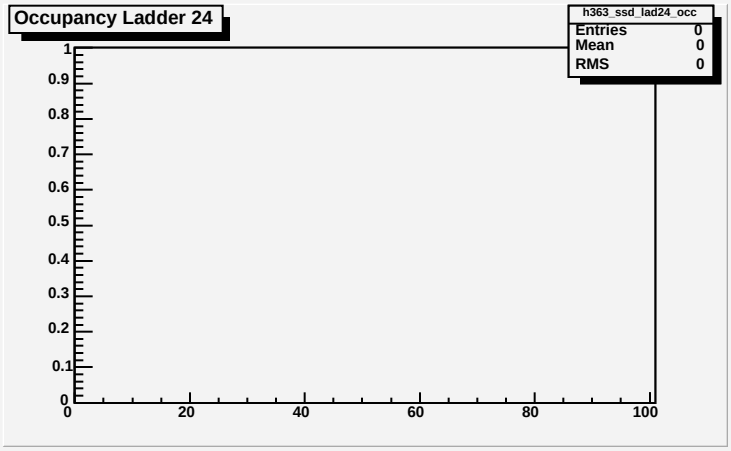
Occupancy Ladder 19
h358_ssd_lad19_occ
Entries 0
Mean 0
RMS 0

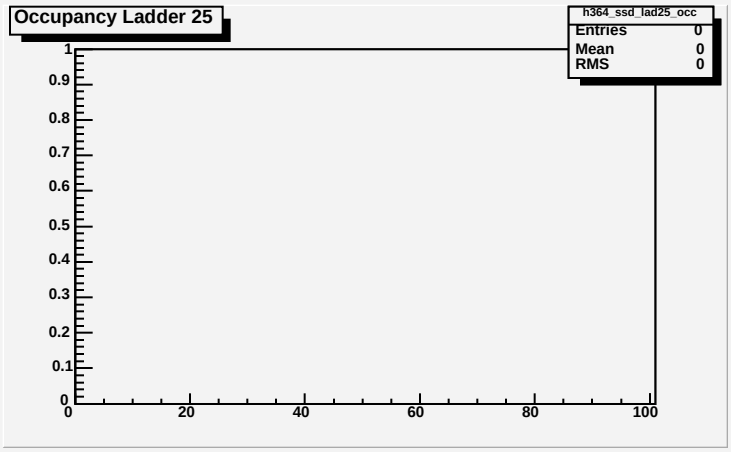
Occupancy Ladder 20
h359_ssd_lad20_occ
Entries 0
Mean 0
RMS 0

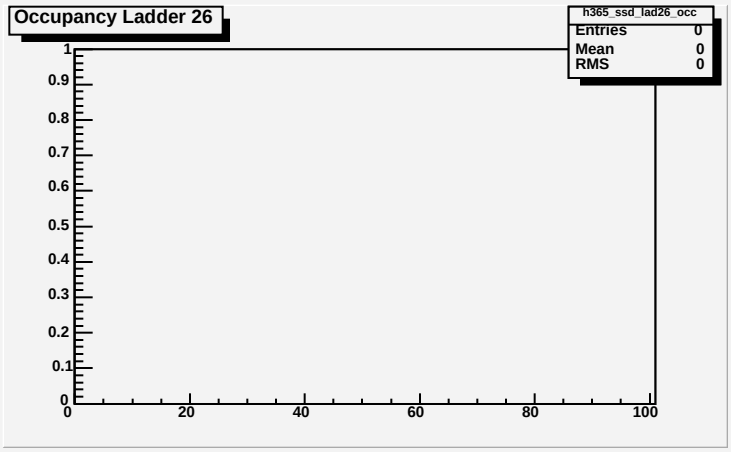
Occupancy Ladder 21
h360_ssd_lad21_occ
Entries 0
Mean 0
RMS 0

Occupancy Ladder 22
h361_ssd_lad22_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 23
h362_ssd_lad23_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 24
h363_ssd_lad24_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 25
h364_ssd_lad25_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 26
h365_ssd_lad26_occ
Entries 0
Mean 0
RMS 0

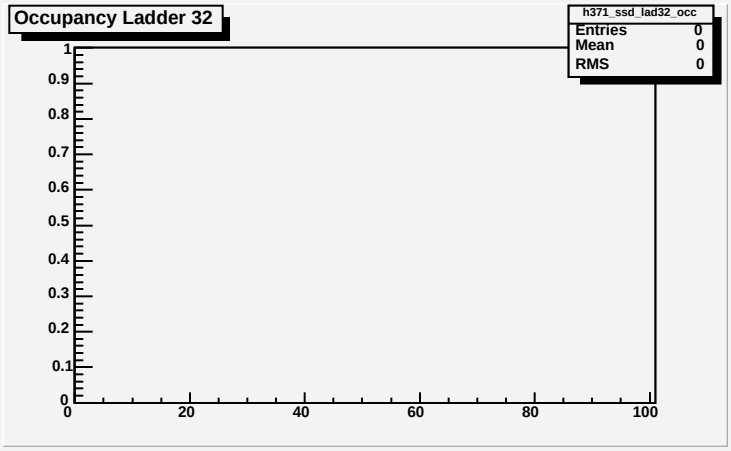
Occupancy Ladder 27
h366_ssd_lad27_occ
Entries 0
Mean 0
RMS 0

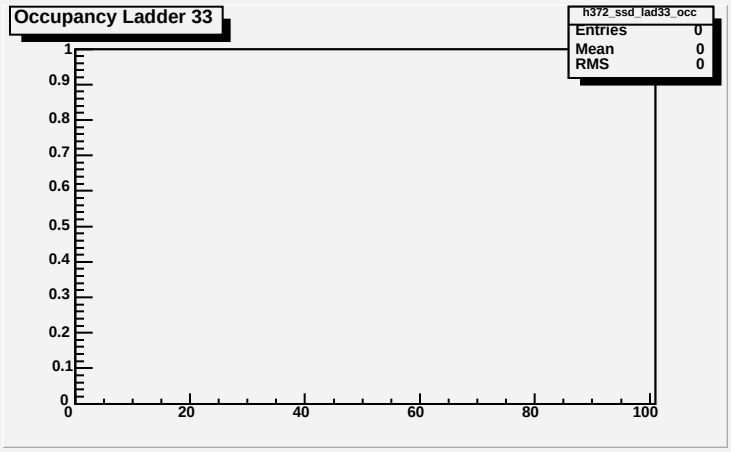
Occupancy Ladder 28
h367_ssd_lad28_occ
Entries 0
Mean 0
RMS 0

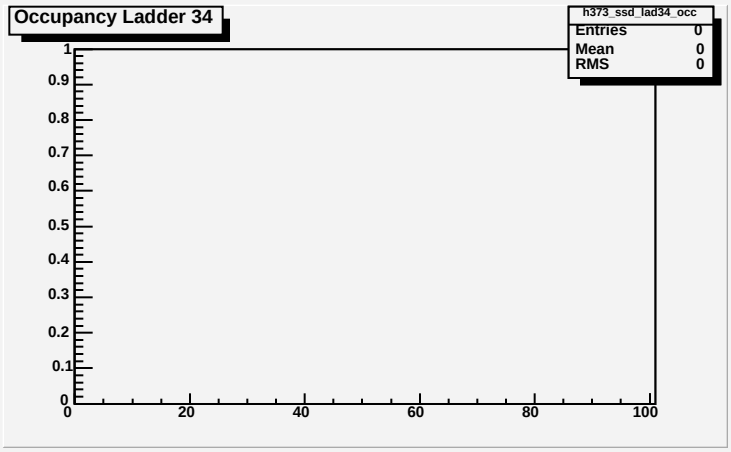
Occupancy Ladder 29
h368_ssd_lad29_occ
Entries 0
Mean 0
RMS 0

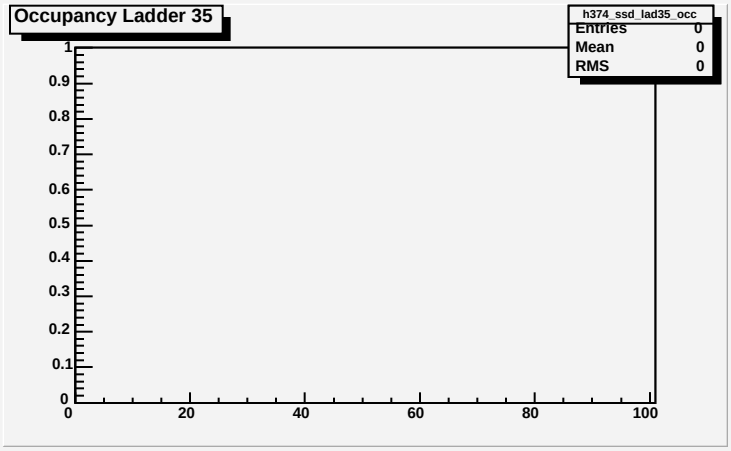
Occupancy Ladder 30
h369_ssd_lad30_occ
Entries 0
Mean 0
RMS 0

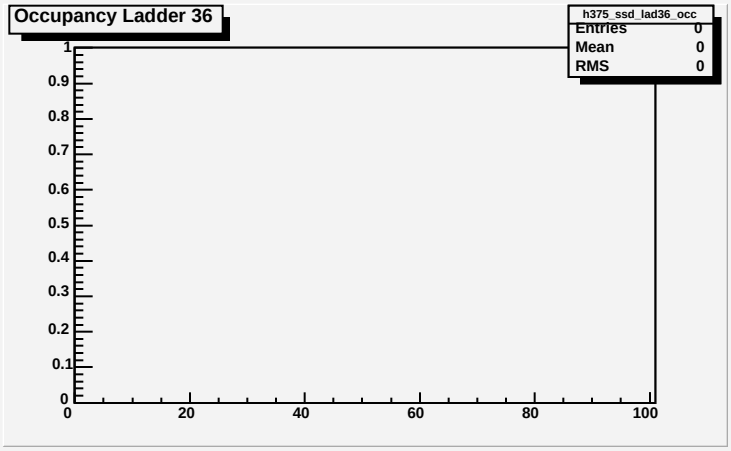
Occupancy Ladder 31
h370_ssd_lad31_occ
Entries 0
Mean 0
RMS 0

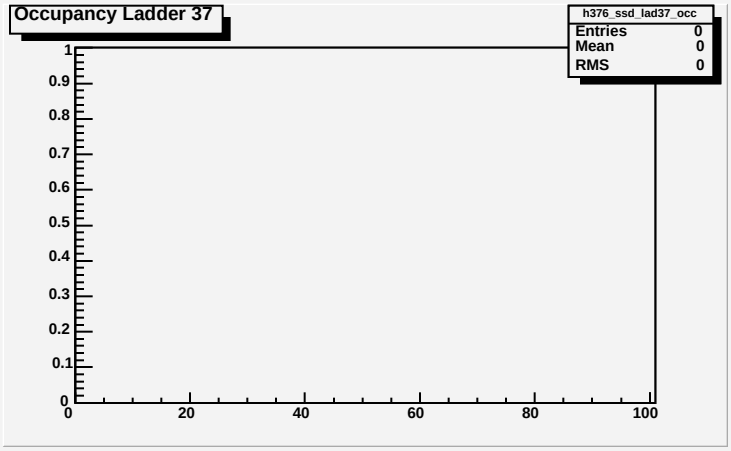

Occupancy Ladder 32
h371_ssd_lad32_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 33
h372_ssd_lad33_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 34
h373_ssd_lad34_occ
Entries 0
Mean 0
RMS 0


Occupancy Ladder 35
h374_ssd_lad35_occ
Entries 0
Mean 0
RMS 0

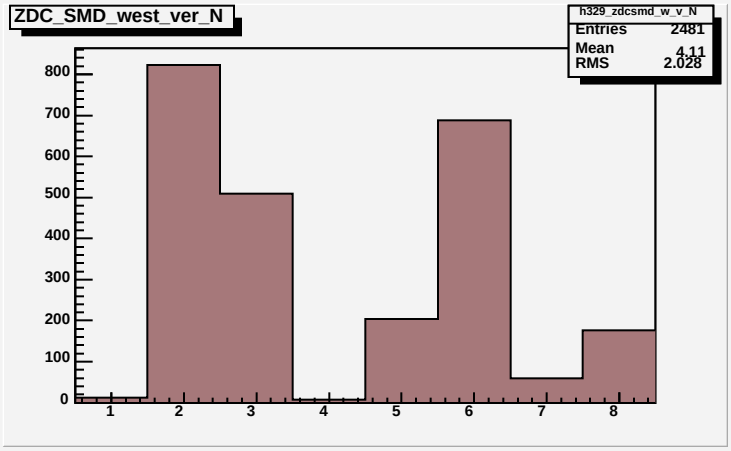

Occupancy Ladder 36
h375_ssd_lad36_occ
Entries 0
Mean 0
RMS 0

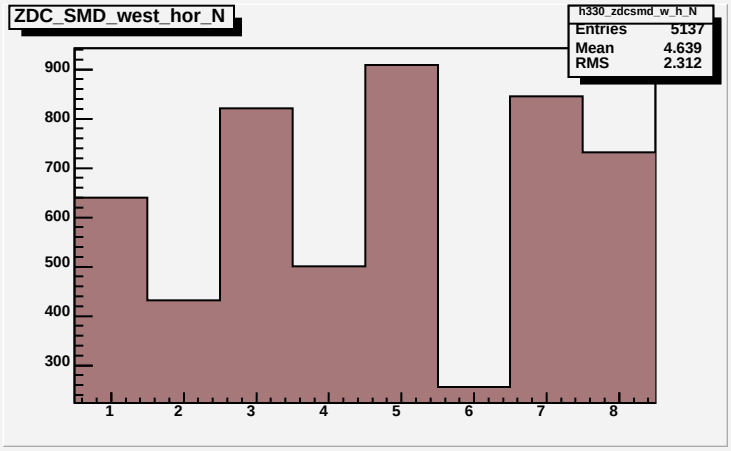

Occupancy Ladder 37
h376_ssd_lad37_occ
Entries 0
Mean 0
RMS 0

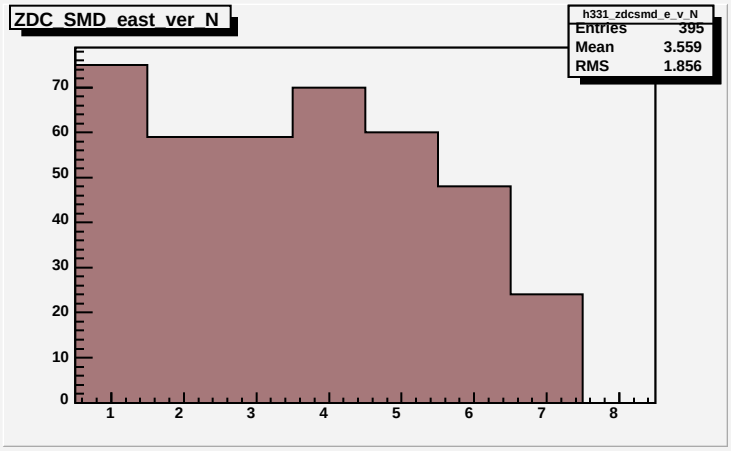
Occupancy Ladder 38
h377_ssd_lad38_occ
Entries 0
Mean 0
RMS 0

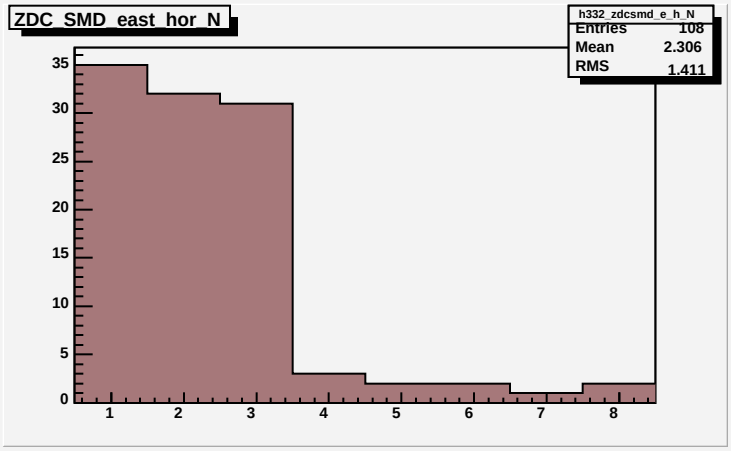
Occupancy Ladder 39
h378_ssd_lad39_occ
Entries 0
Mean 0
RMS 0

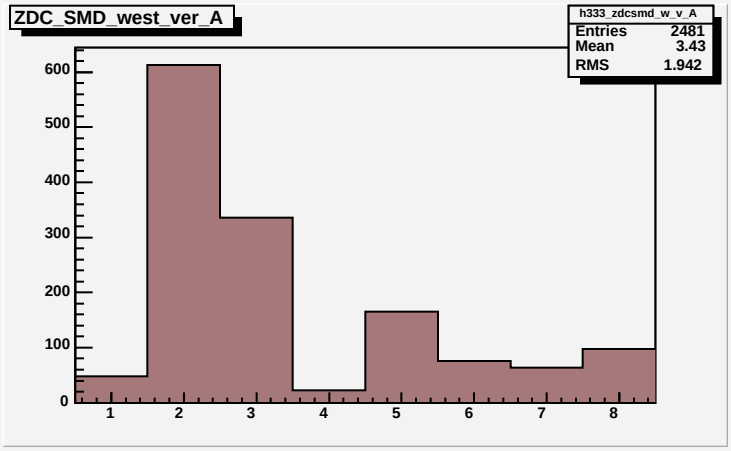
Occupancy Ladder 40
h379_ssd_lad40_occ
Entries 0
Mean 0
RMS 0

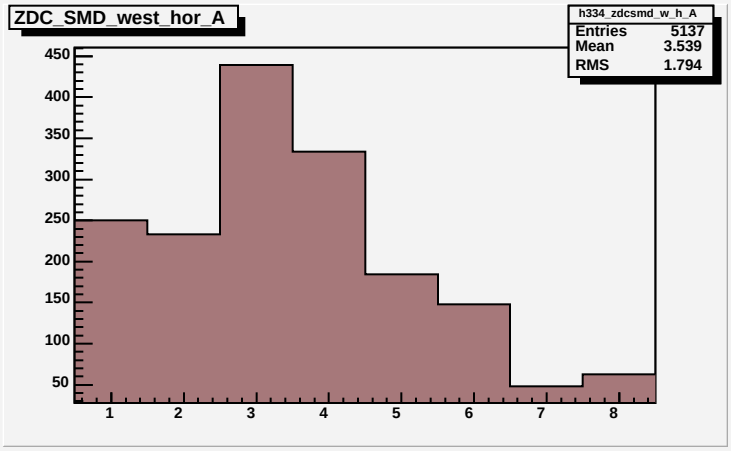

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 2481
Mean 4.11
RMS 2.028

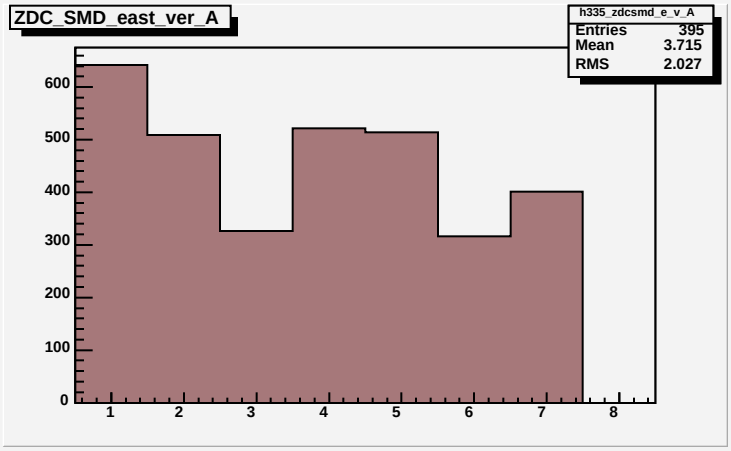

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 5137
Mean 4.639
RMS 2.312

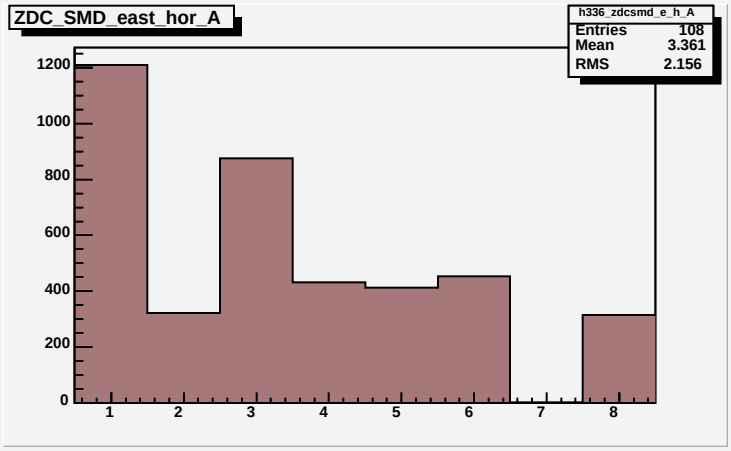

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 395
Mean 3.559
RMS 1.856

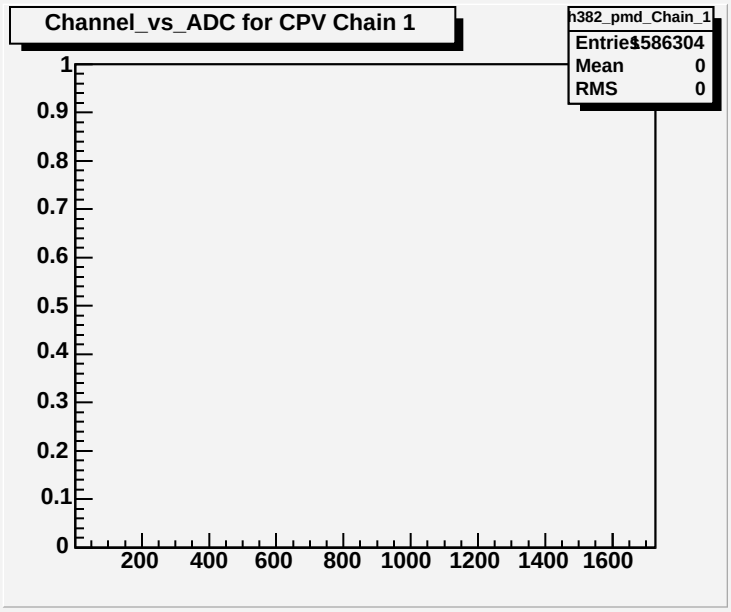

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 108
Mean 2.306
RMS 1.411

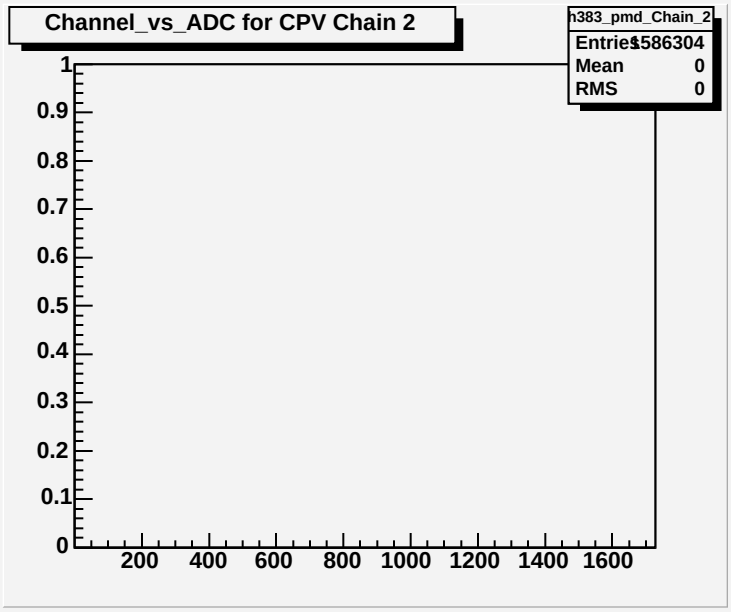

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 2481
Mean 3.43
RMS 1.942

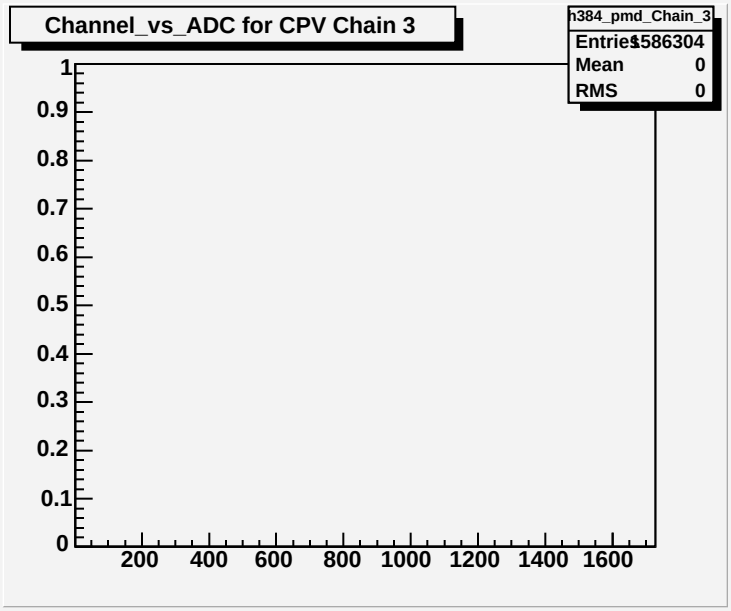

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 5137
Mean 3.539
RMS 1.794

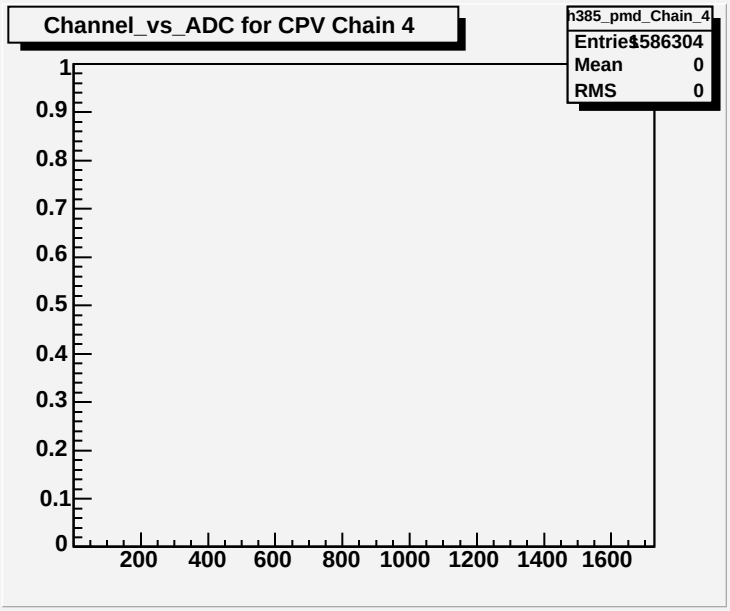

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 395
Mean 3.715
RMS 2.027

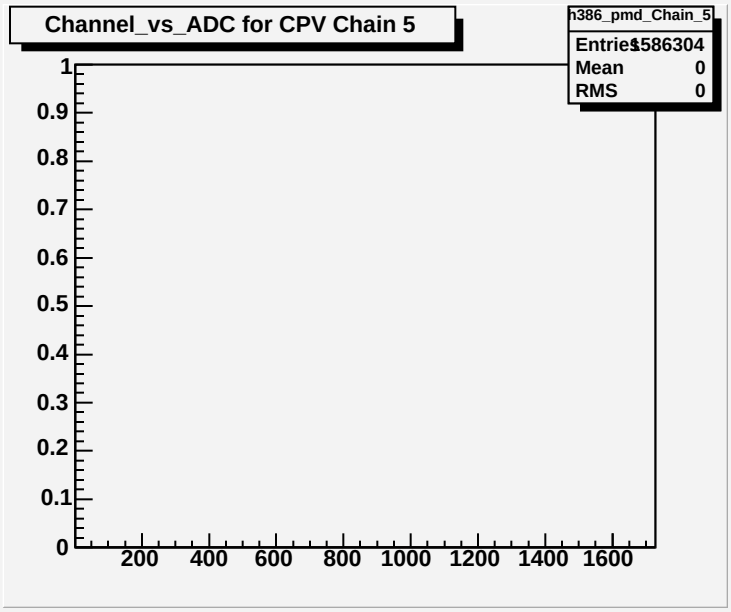

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 108
Mean 3.361
RMS 2.156

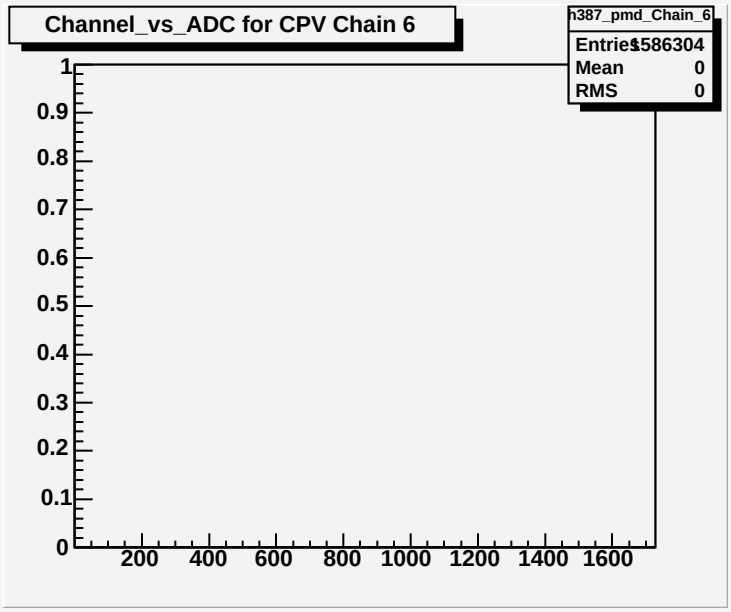

Channel_vs_ADC for CPV Chain 1
h382_pmd_Chain_1
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

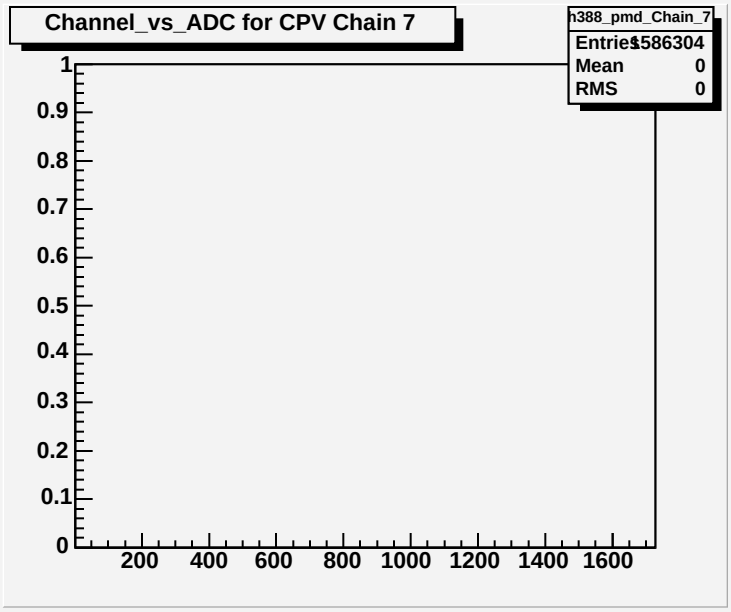

Channel_vs_ADC for CPV Chain 2
h383_pmd_Chain_2
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

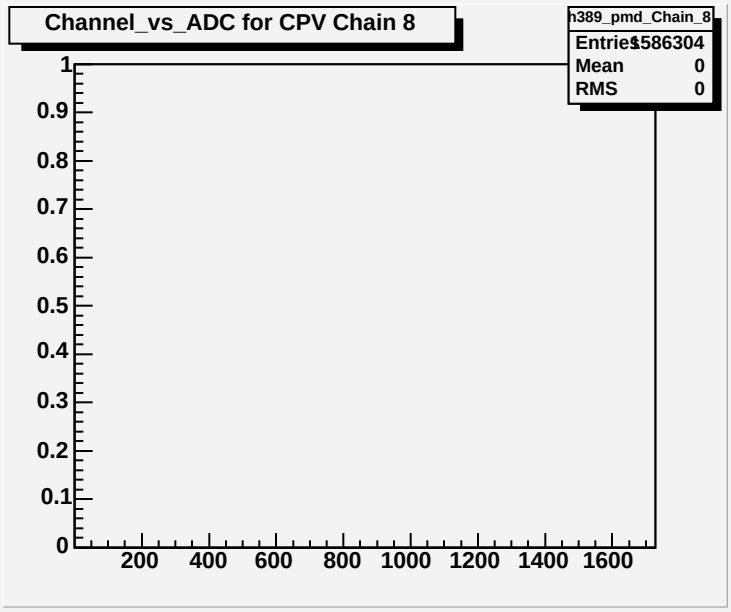

Channel_vs_ADC for CPV Chain 3
h384_pmd_Chain_3
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

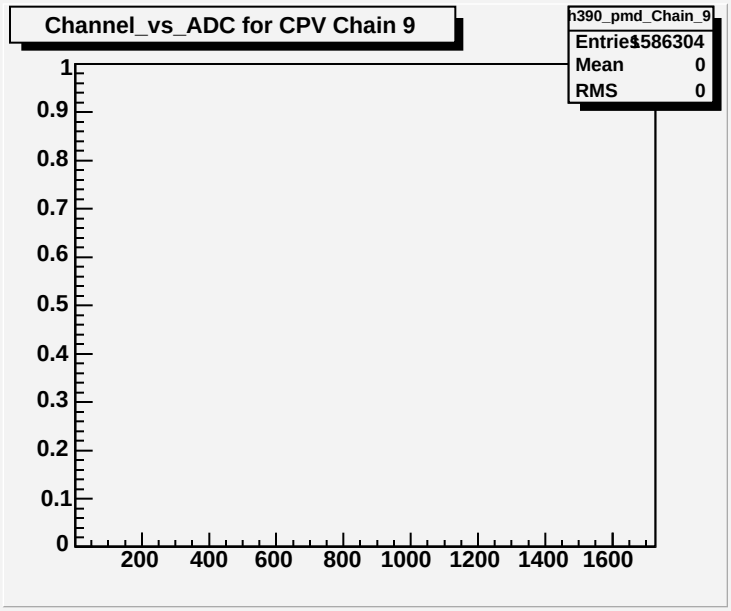

Channel_vs_ADC for CPV Chain 4
h385_pmd_Chain_4
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

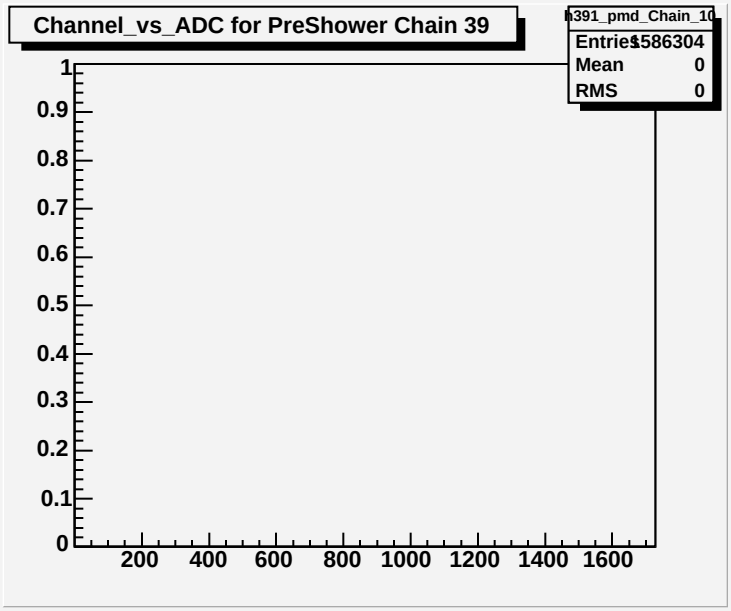

Channel_vs_ADC for CPV Chain 5
h386_pmd_Chain_5
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

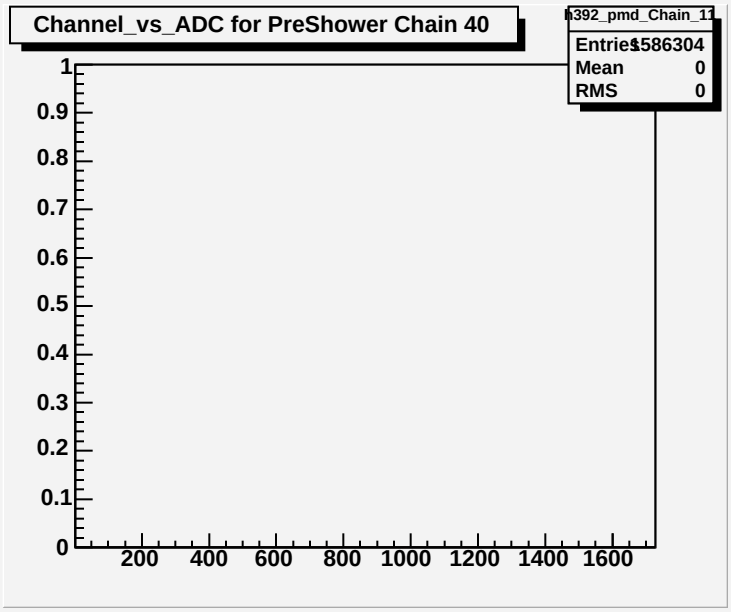

Channel_vs_ADC for CPV Chain 6
h387_pmd_Chain_6
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

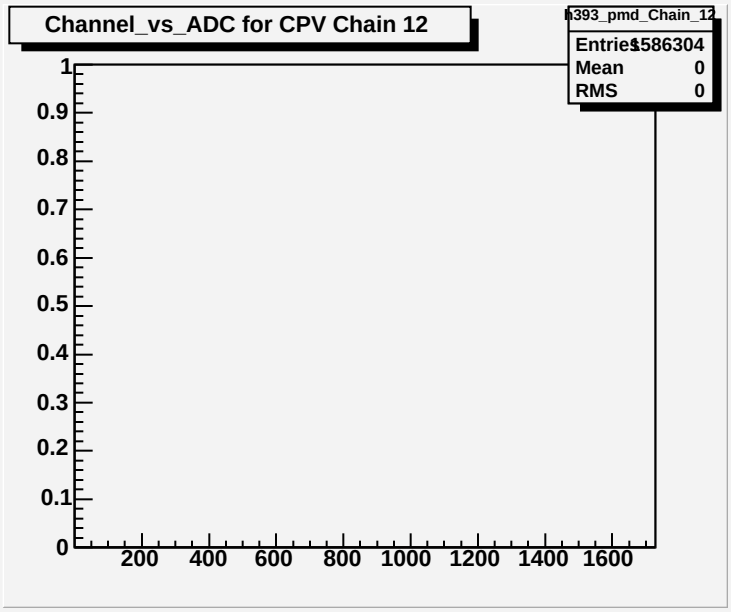

Channel_vs_ADC for CPV Chain 7
h388_pmd_Chain_7
Entries 586304
Mean 0
RMS 0

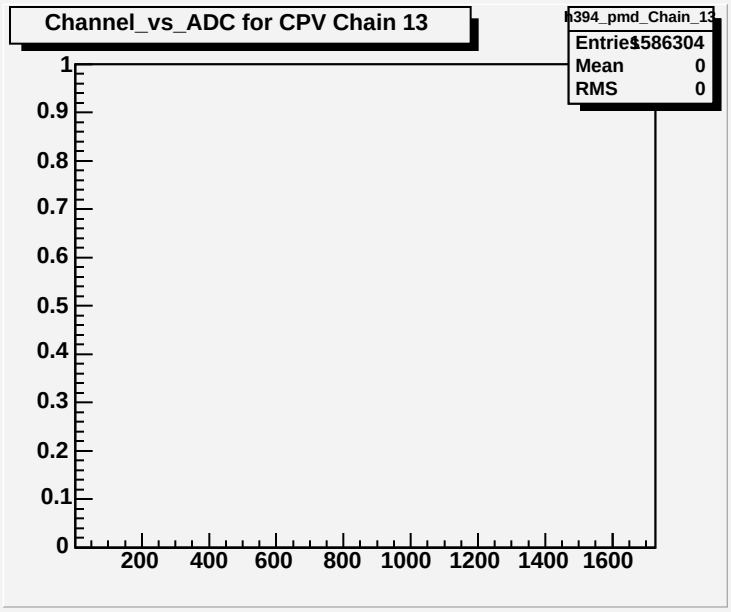

Channel_vs_ADC for CPV Chain 8
h389_pmd_Chain_8
Entries 586304
Mean 0
RMS 0

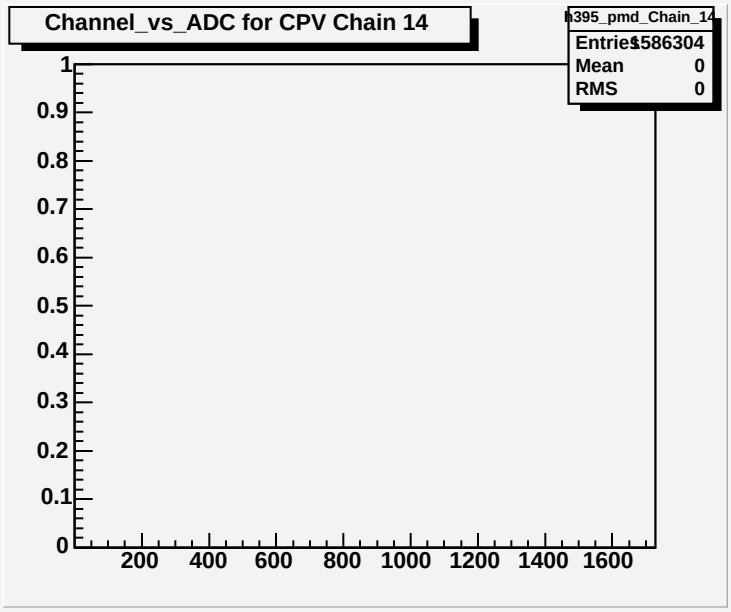

Channel_vs_ADC for CPV Chain 9
h390_pmd_Chain_9
Entries 586304
Mean 0
RMS 0

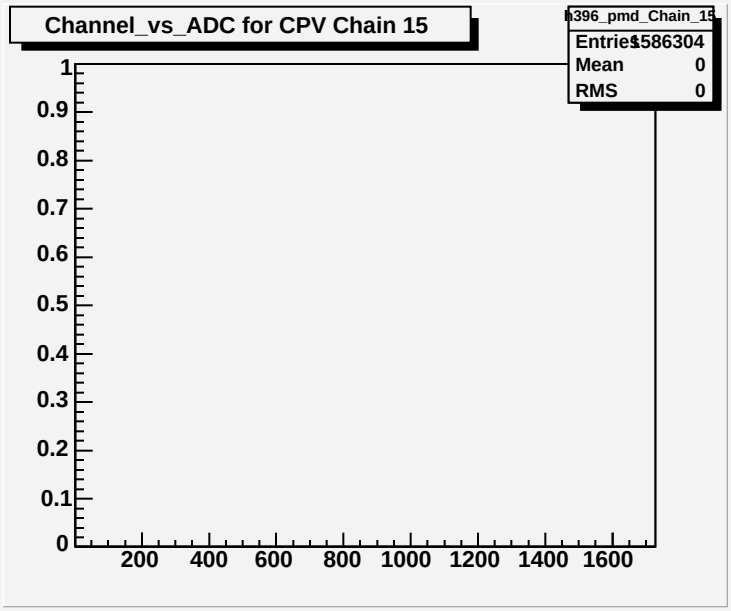

Channel_vs_ADC for PreShower Chain 39
h391_pmd_Chain_10
Entries 586304
Mean 0
RMS 0

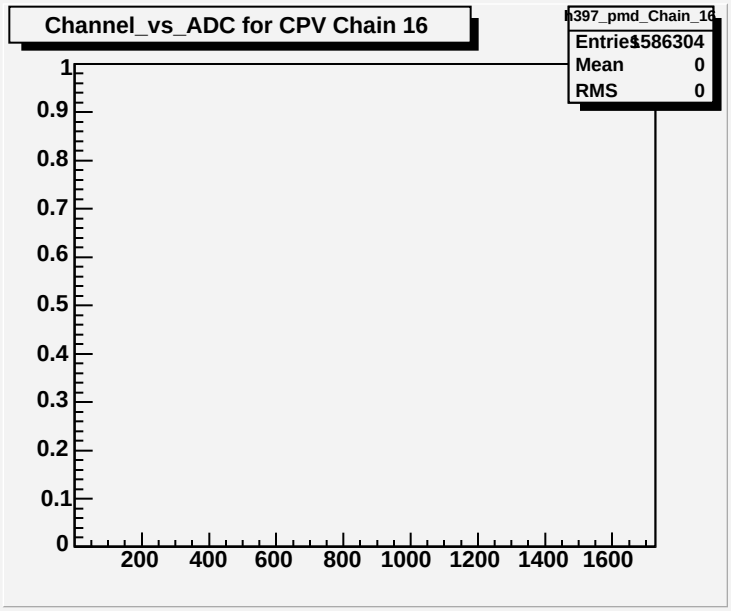

Channel_vs_ADC for PreShower Chain 40
h392_pmd_Chain_11
Entries 586304
Mean 0
RMS 0

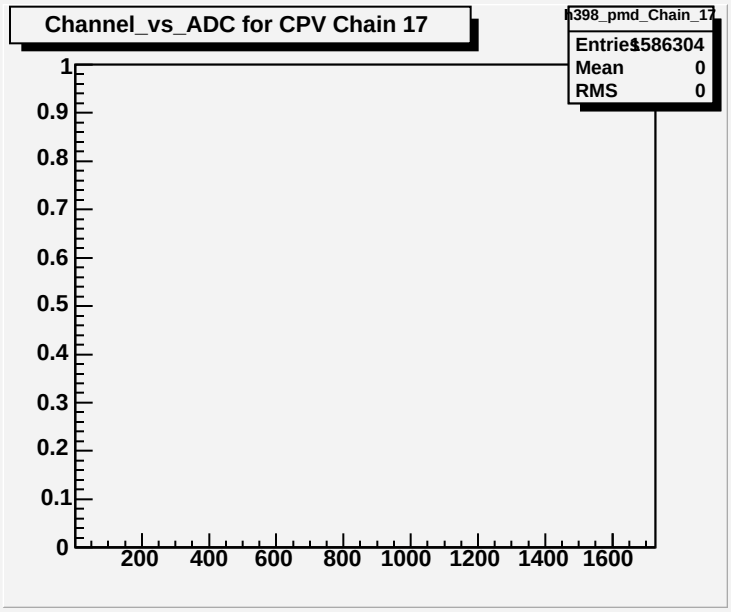

Channel_vs_ADC for CPV Chain 12
h393_pmd_Chain_12
Entries 586304
Mean 0
RMS 0

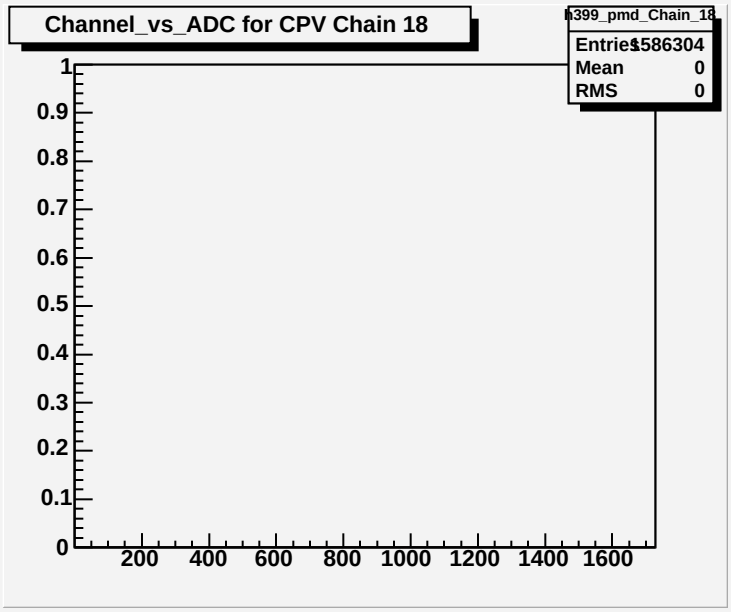

Channel_vs_ADC for CPV Chain 13
h394_pmd_Chain_13
Entries 586304
Mean 0
RMS 0

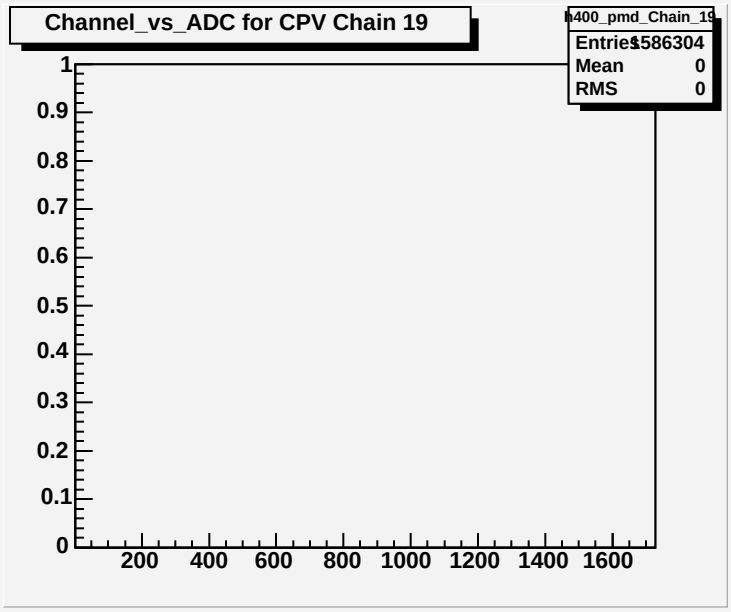

Channel_vs_ADC for CPV Chain 14
h395_pmd_Chain_14
Entries 586304
Mean 0
RMS 0

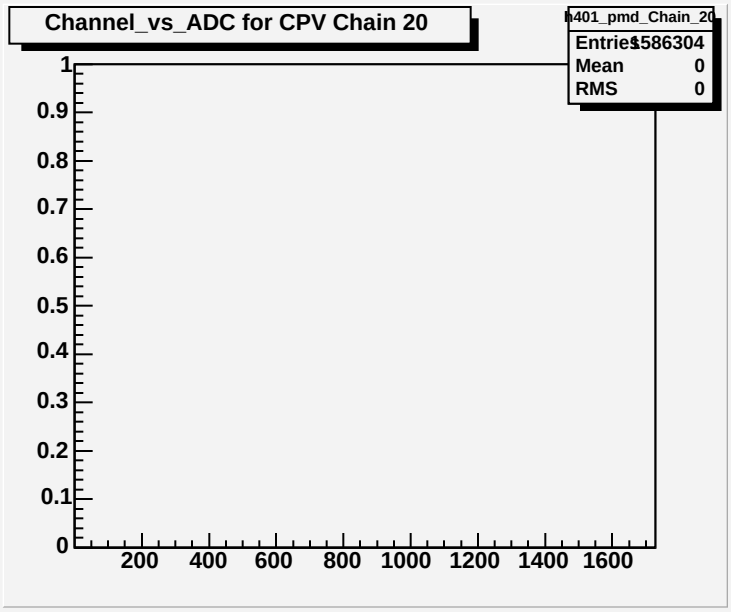

Channel_vs_ADC for CPV Chain 15
h396_pmd_Chain_15
Entries 586304
Mean 0
RMS 0

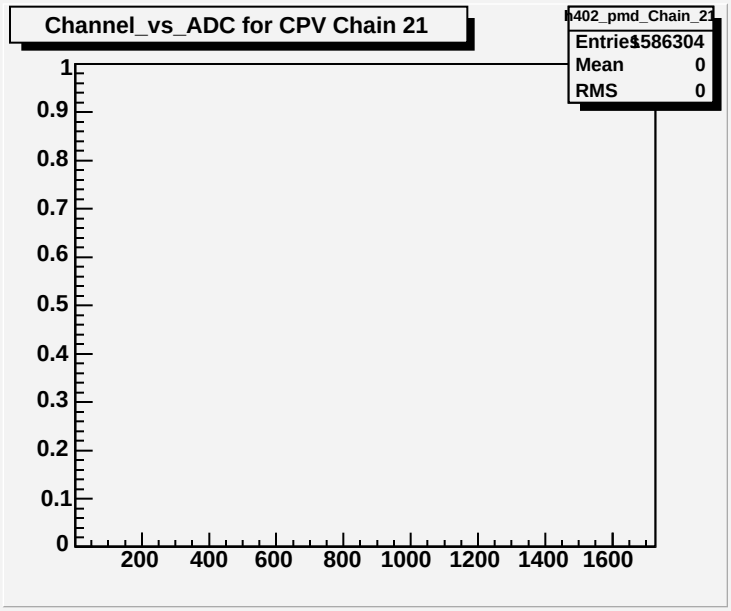

Channel_vs_ADC for CPV Chain 16
h397_pmd_Chain_16
Entries 586304
Mean 0
RMS 0

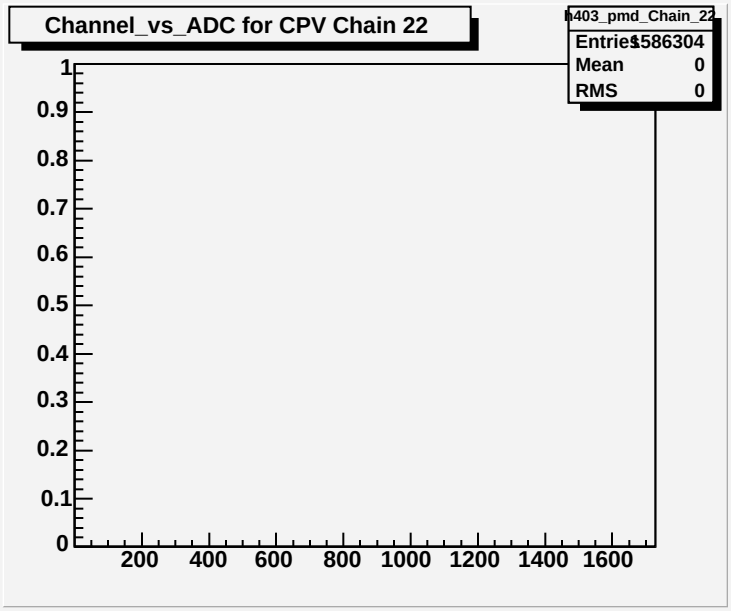

Channel_vs_ADC for CPV Chain 17
h398_pmd_Chain_17
Entries 586304
Mean 0
RMS 0

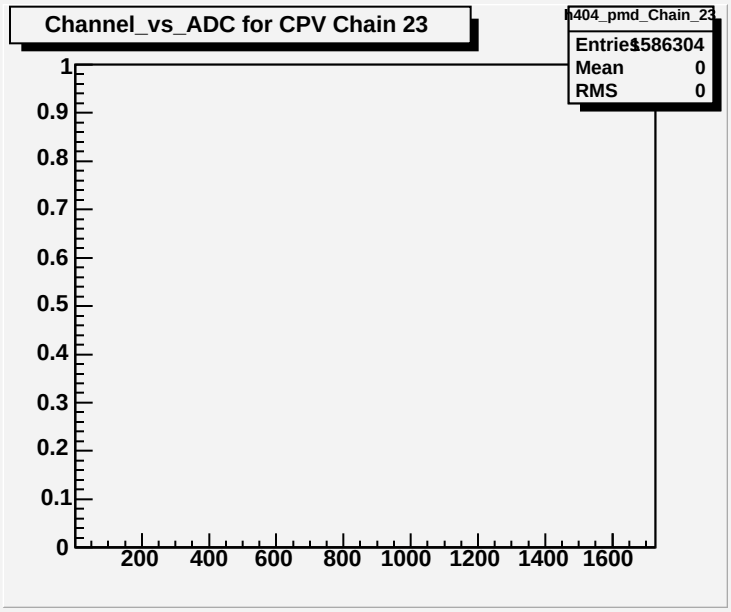

Channel_vs_ADC for CPV Chain 18
h399_pmd_Chain_18
Entries 586304
Mean 0
RMS 0

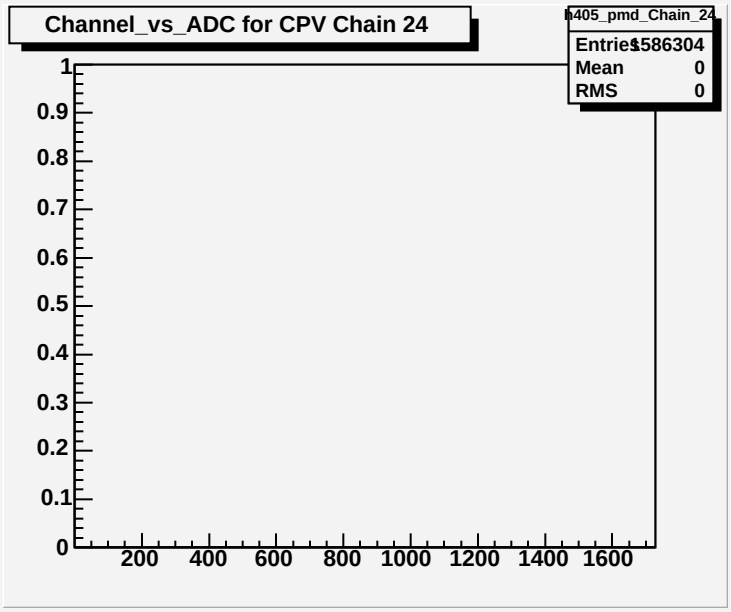

Channel_vs_ADC for CPV Chain 19
h400_pmd_Chain_19
Entries 586304
Mean 0
RMS 0

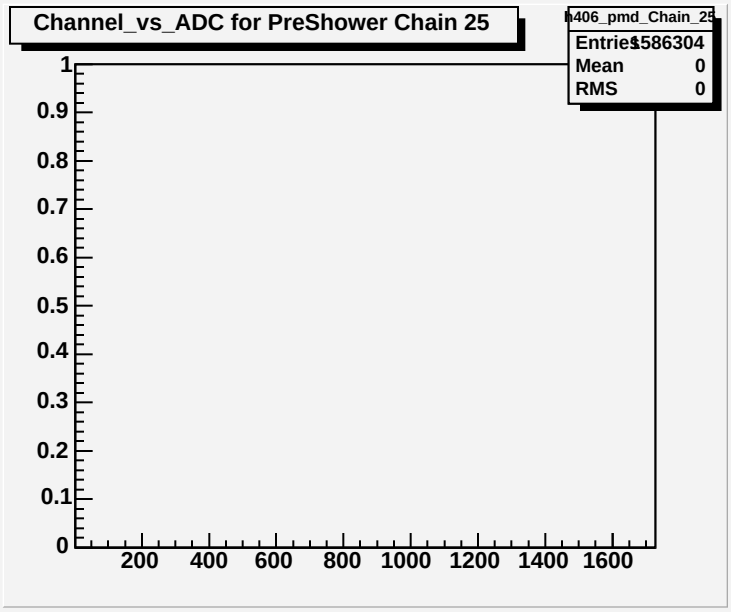

Channel_vs_ADC for CPV Chain 20
h401_pmd_Chain_20
Entries 586304
Mean 0
RMS 0

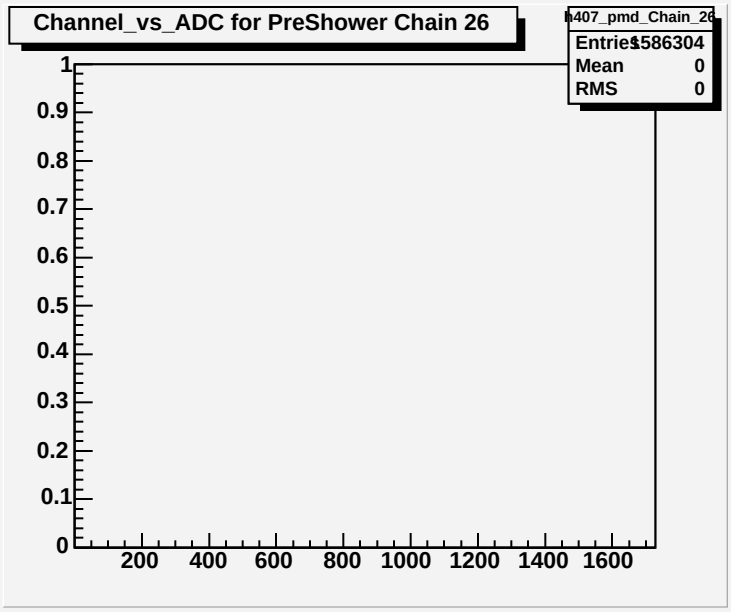

Channel_vs_ADC for CPV Chain 21
h402_pmd_Chain_21
Entries 586304
Mean 0
RMS 0

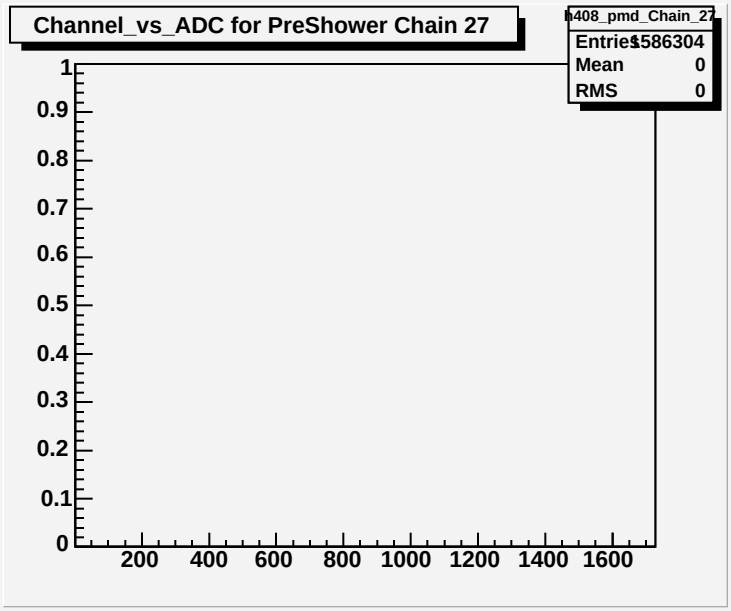

Channel_vs_ADC for CPV Chain 22
h403_pmd_Chain_22
Entries 586304
Mean 0
RMS 0

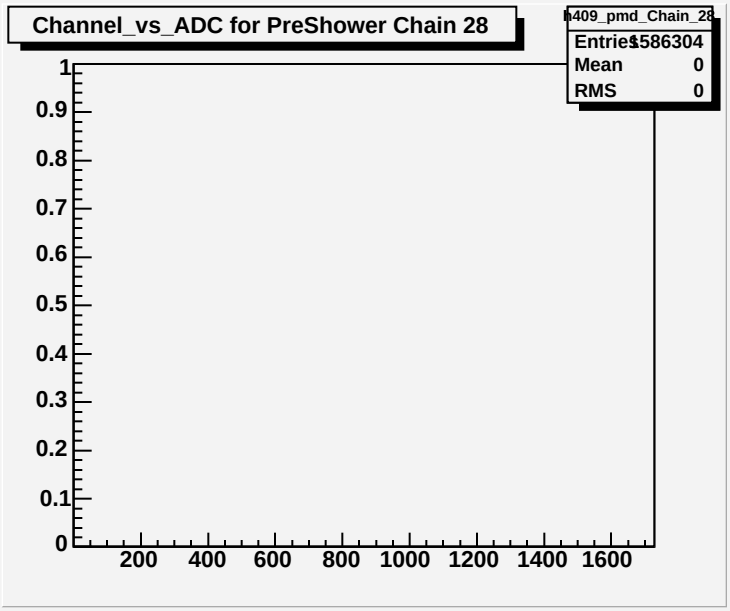

Channel_vs_ADC for CPV Chain 23
h404_pmd_Chain_23
Entries 586304
Mean 0
RMS 0

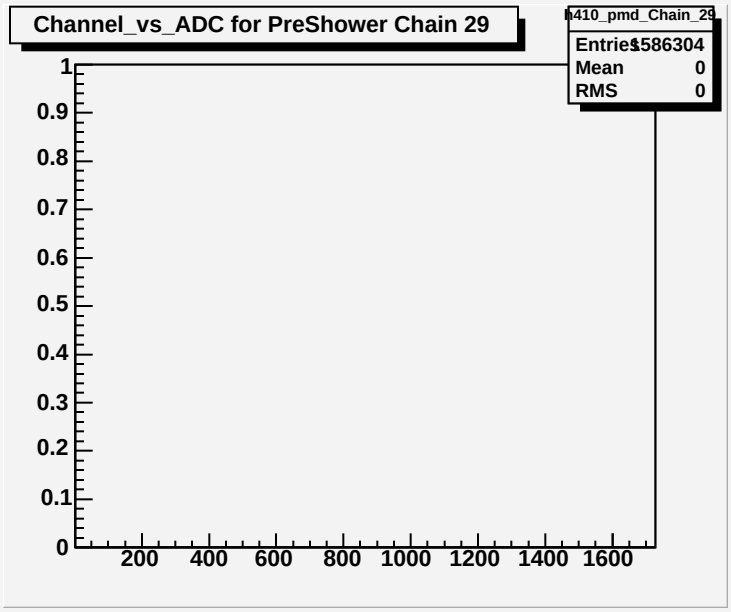

Channel_vs_ADC for CPV Chain 24
h405_pmd_Chain_24
Entries 586304
Mean 0
RMS 0

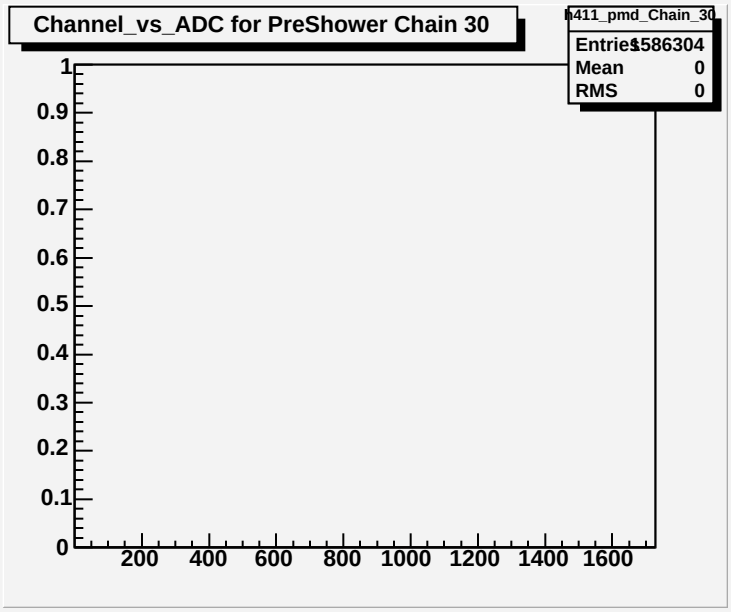

Channel_vs_ADC for PreShower Chain 25
h406_pmd_Chain_25
Entries 586304
Mean 0
RMS 0

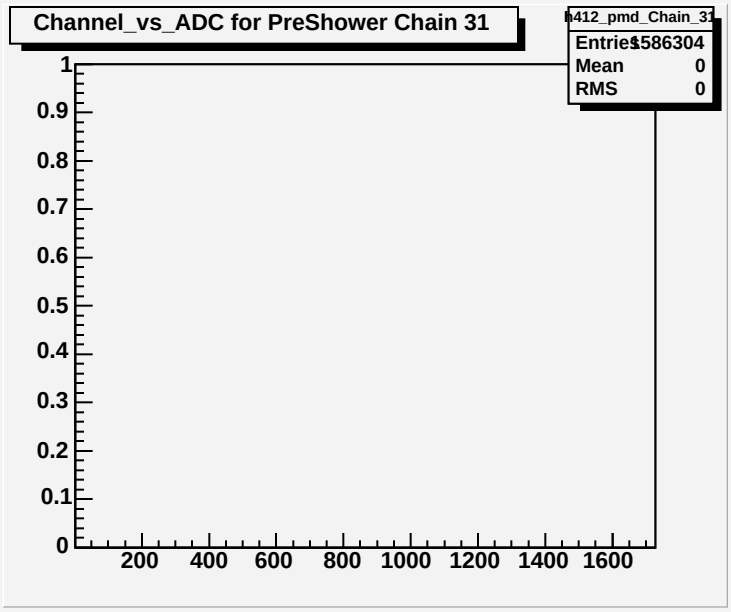

Channel_vs_ADC for PreShower Chain 26
h407_pmd_Chain_26
Entries 586304
Mean 0
RMS 0

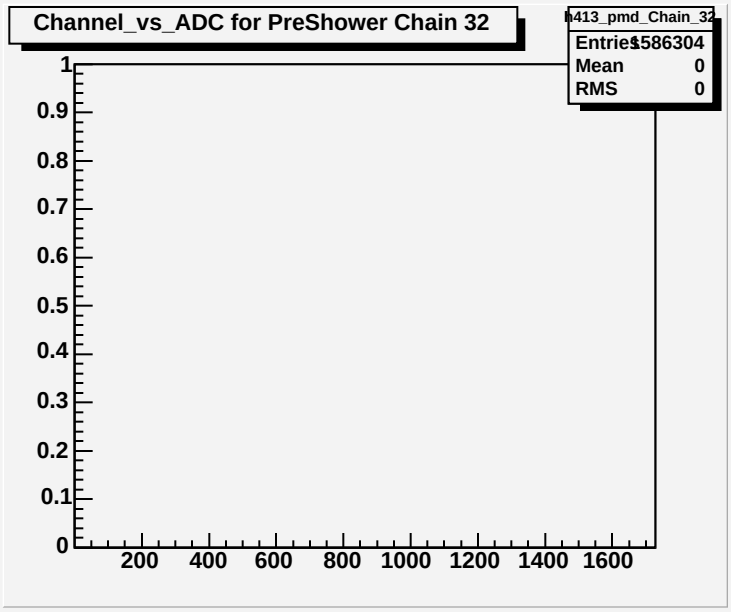

Channel_vs_ADC for PreShower Chain 27
h408_pmd_Chain_27
Entries 586304
Mean 0
RMS 0

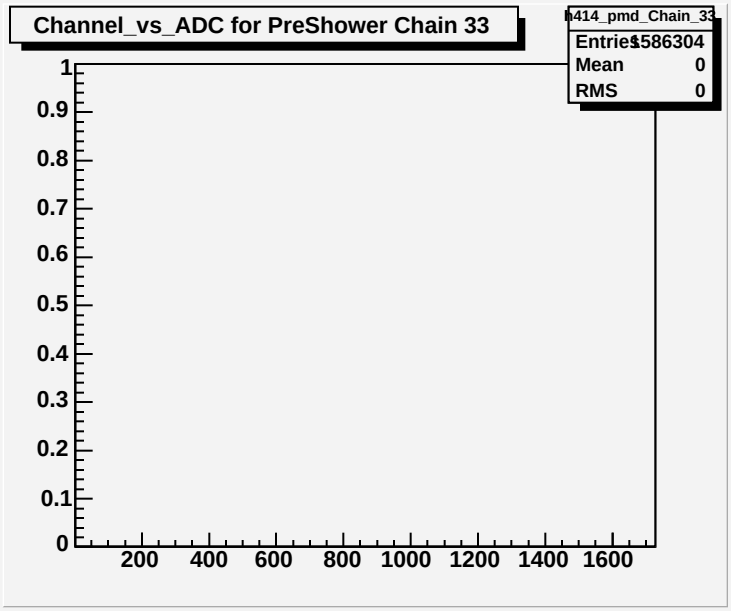

Channel_vs_ADC for PreShower Chain 28
h409_pmd_Chain_28
Entries 586304
Mean 0
RMS 0

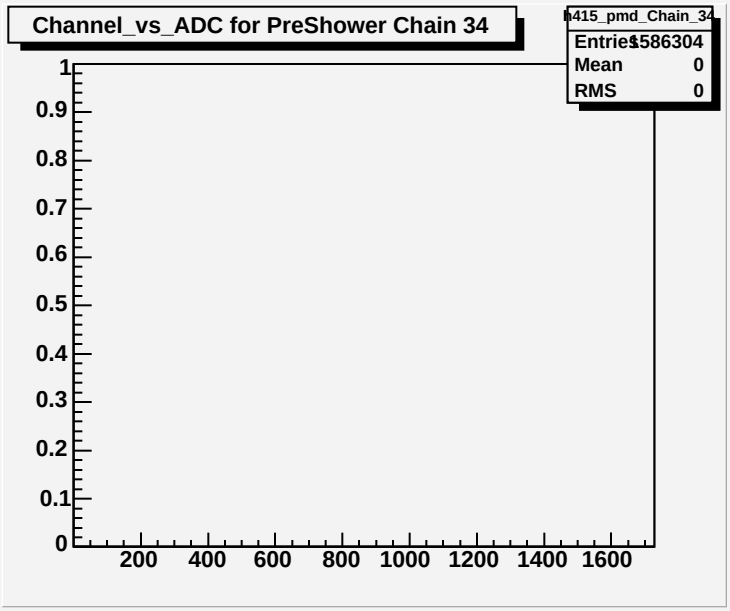

Channel_vs_ADC for PreShower Chain 29
h410_pmd_Chain_29
Entries 586304
Mean 0
RMS 0

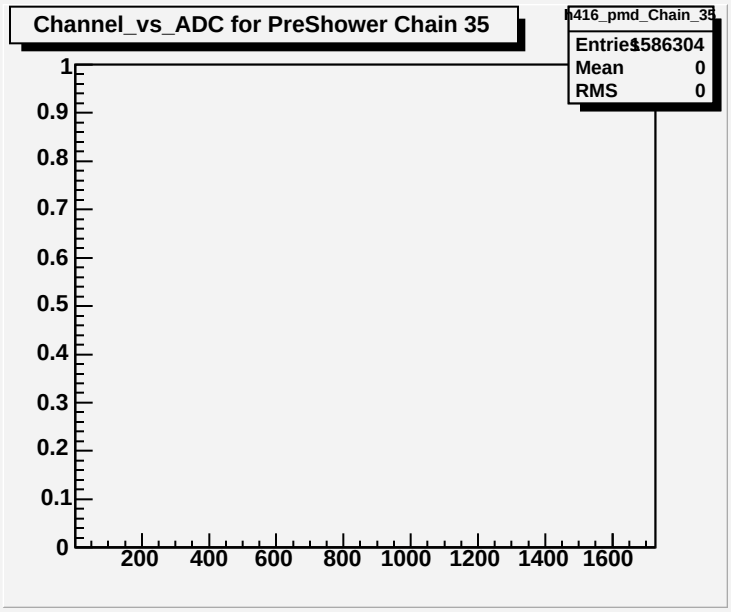

Channel_vs_ADC for PreShower Chain 30
h411_pmd_Chain_30
Entries 586304
Mean 0
RMS 0

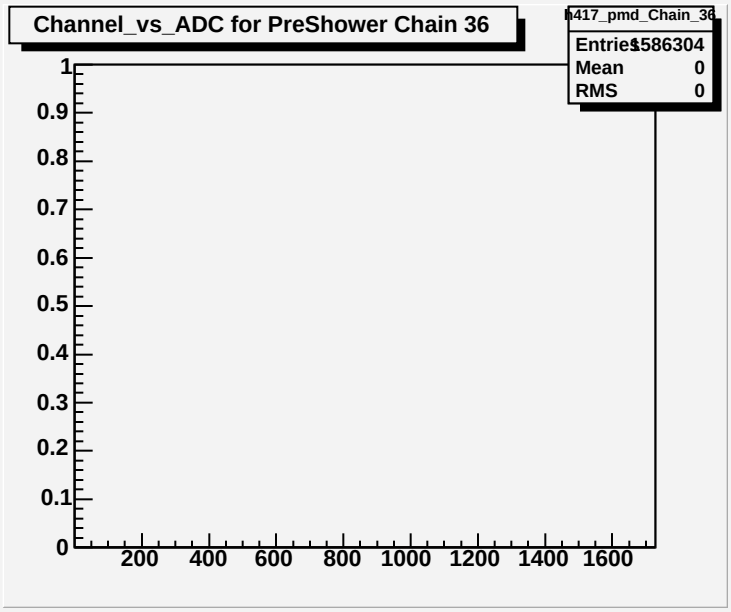

Channel_vs_ADC for PreShower Chain 31
h412_pmd_Chain_31
Entries 586304
Mean 0
RMS 0

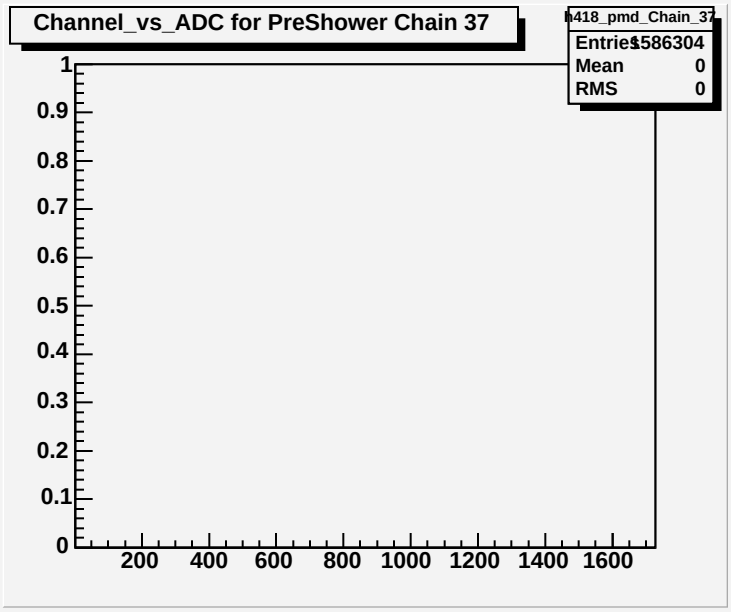

Channel_vs_ADC for PreShower Chain 32
h413_pmd_Chain_32
Entries 586304
Mean 0
RMS 0

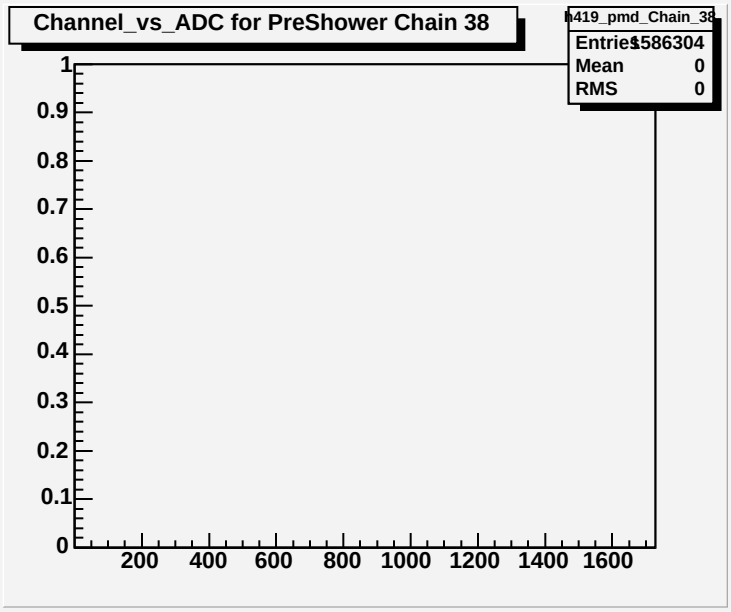

Channel_vs_ADC for PreShower Chain 33
h414_pmd_Chain_33
Entries 586304
Mean 0
RMS 0

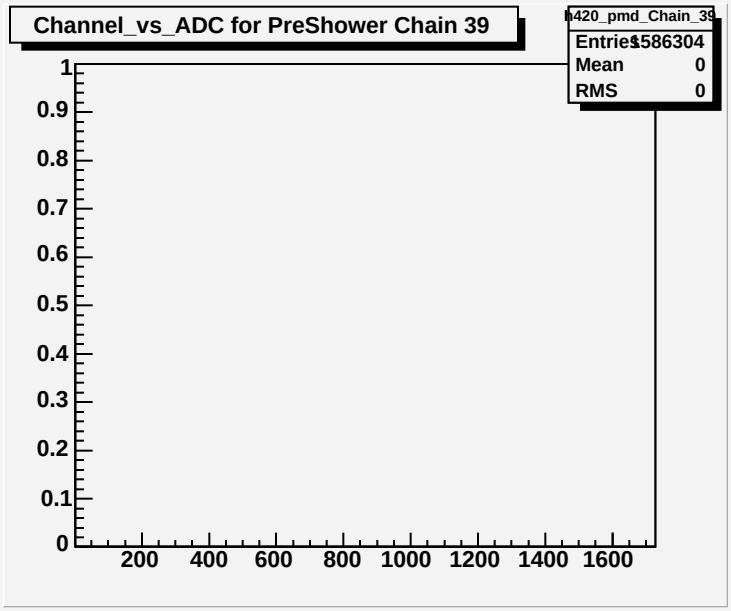

Channel_vs_ADC for PreShower Chain 34
h415_pmd_Chain_34
Entries 586304
Mean 0
RMS 0

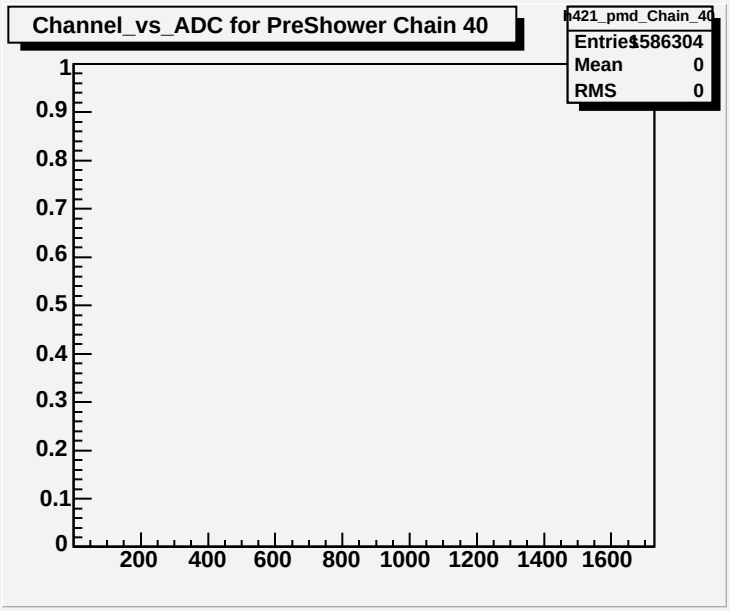

Channel_vs_ADC for PreShower Chain 35
h416_pmd_Chain_35
Entries 586304
Mean 0
RMS 0

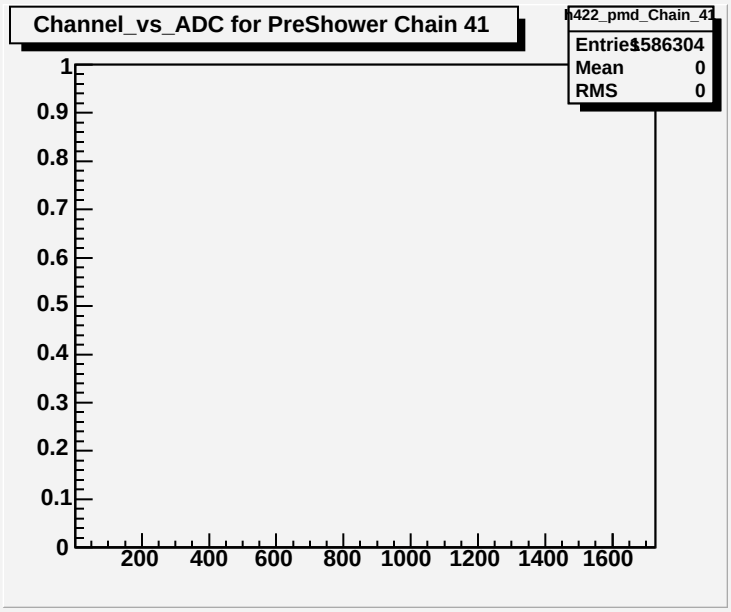

Channel_vs_ADC for PreShower Chain 36
h417_pmd_Chain_36
Entries 586304
Mean 0
RMS 0

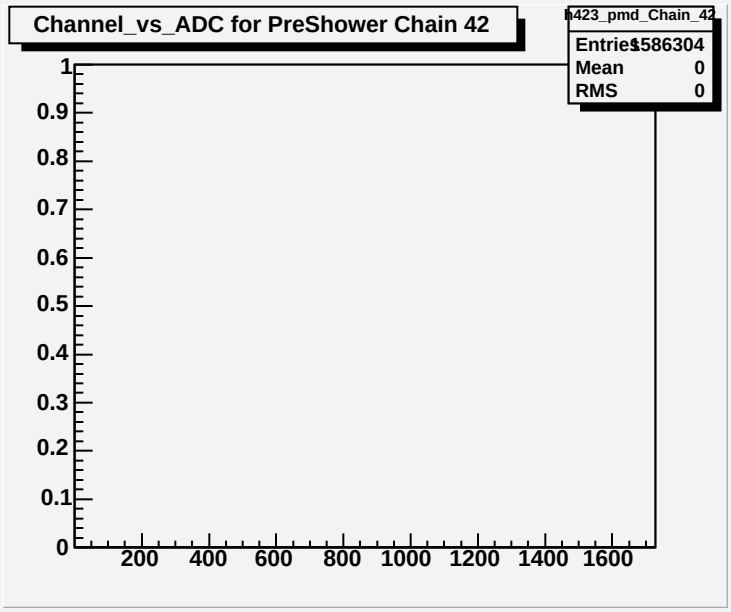

Channel_vs_ADC for PreShower Chain 37
h418_pmd_Chain_37
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

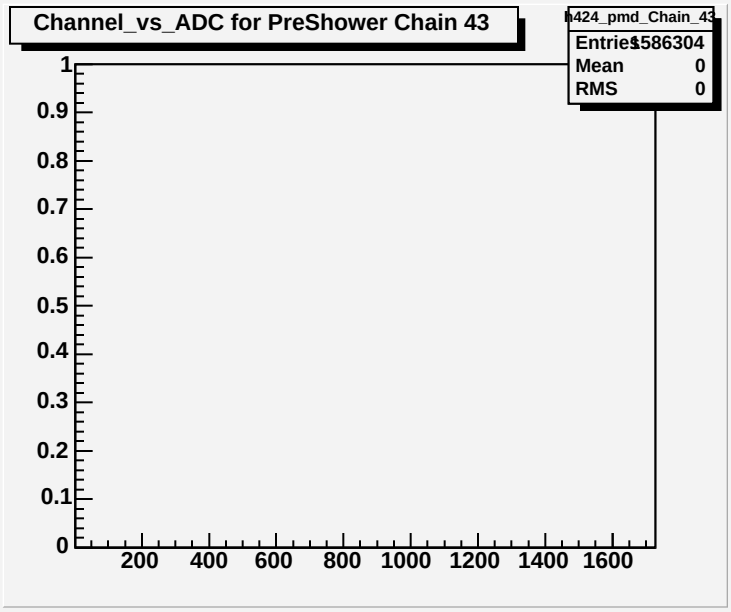

Channel_vs_ADC for PreShower Chain 38
h419_pmd_Chain_38
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

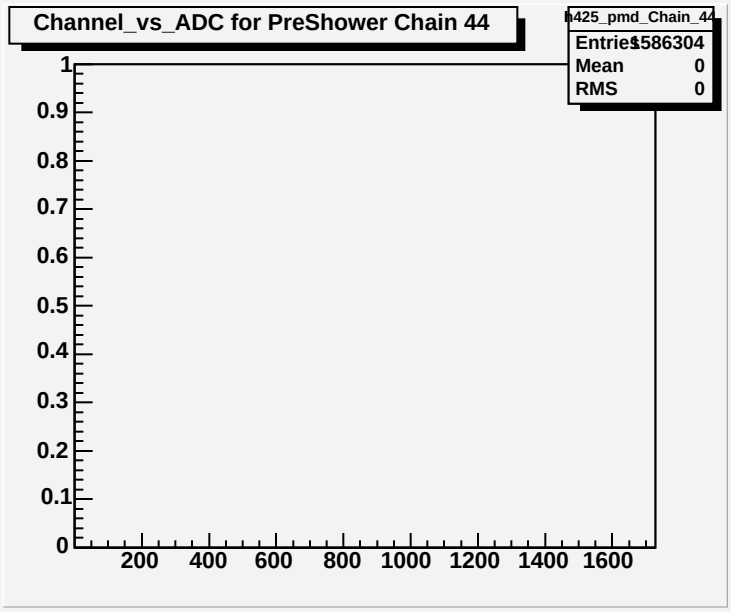

Channel_vs_ADC for PreShower Chain 39
h420_pmd_Chain_39
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

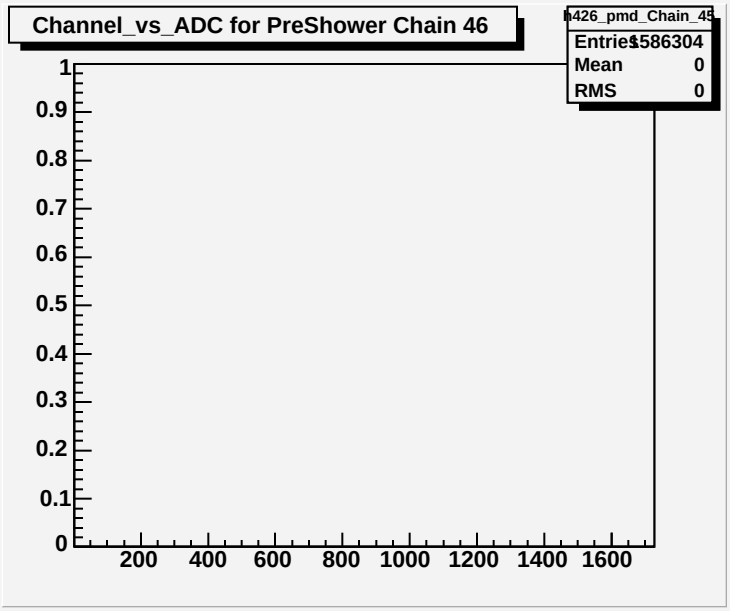

Channel_vs_ADC for PreShower Chain 40
h421_pmd_Chain_40
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

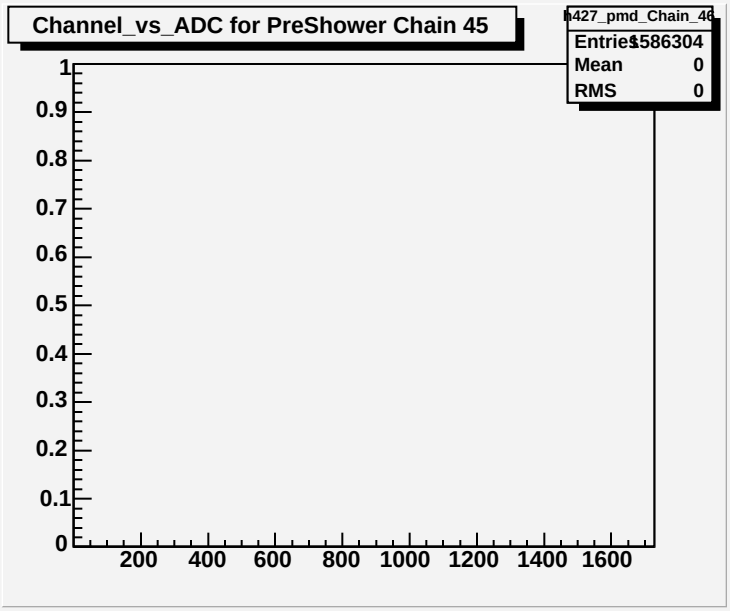

Channel_vs_ADC for PreShower Chain 41
h422_pmd_Chain_41
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

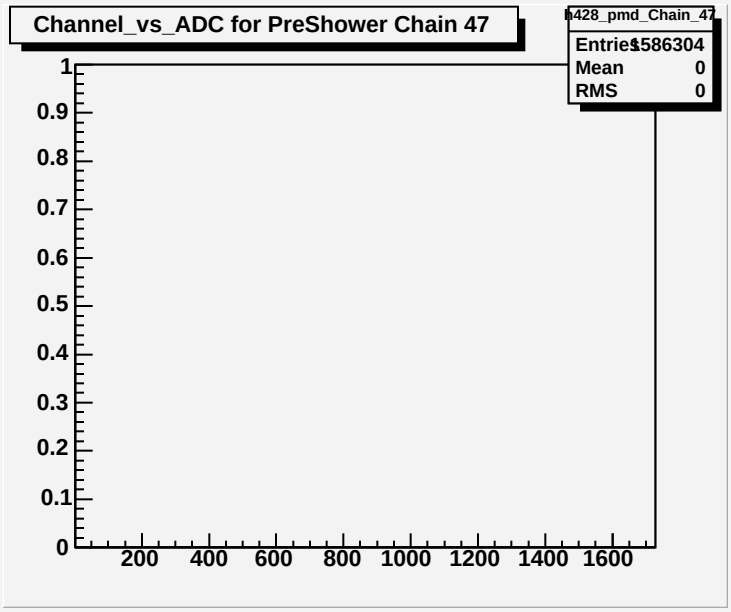

Channel_vs_ADC for PreShower Chain 42
h423_pmd_Chain_42
Entries 586304
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

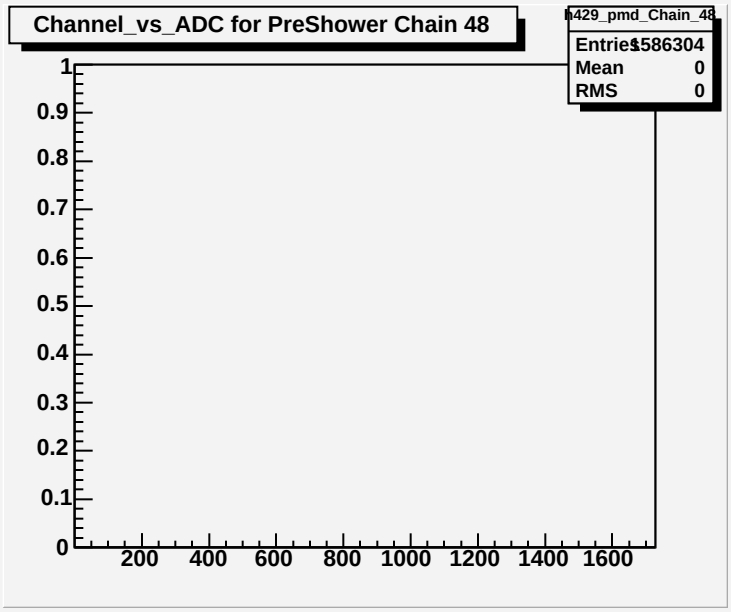

Channel_vs_ADC for PreShower Chain 43
h424_pmd_Chain_43
Entries 586304
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 44
h425_pmd_Chain_44
Entries 586304
Mean 0
RMS 0

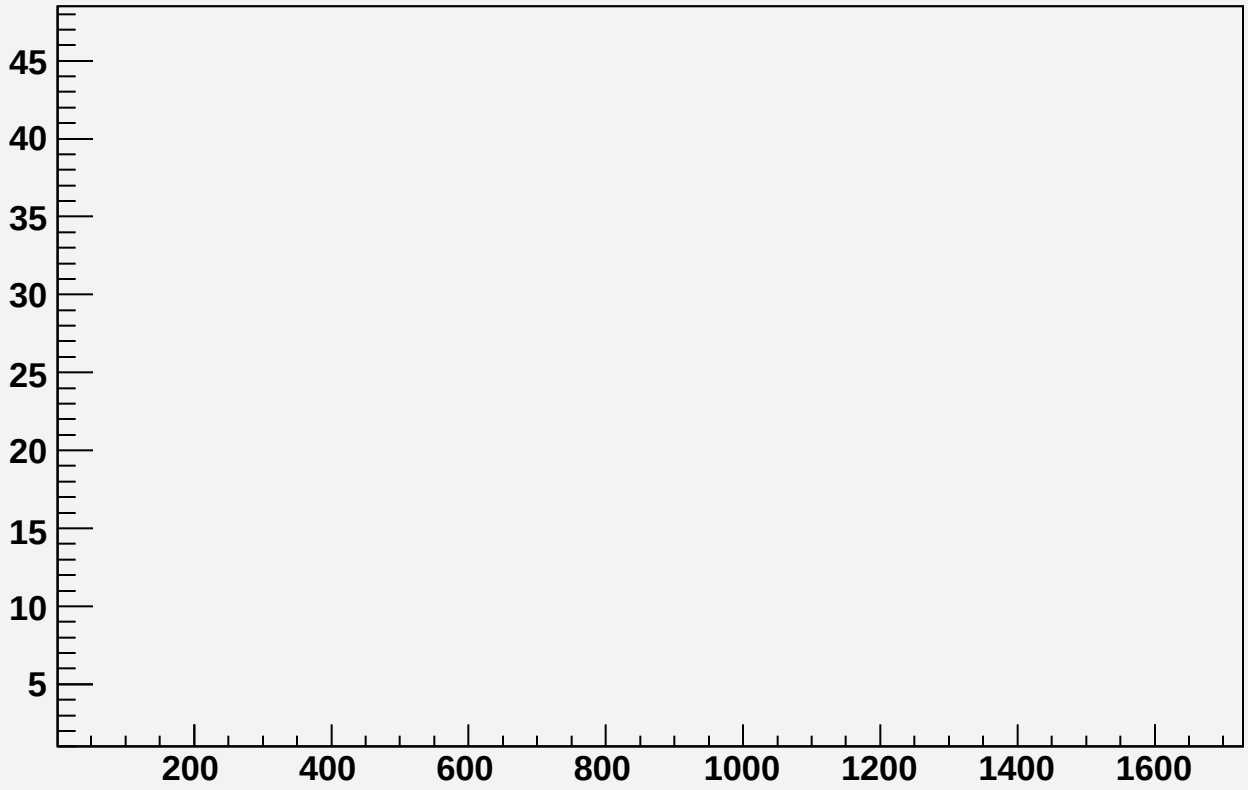

Channel_vs_ADC for PreShower Chain 46
h426_pmd_Chain_45
Entries 586304
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 45
h427_pmd_Chain_46
Entries 586304
Mean 0
RMS 0

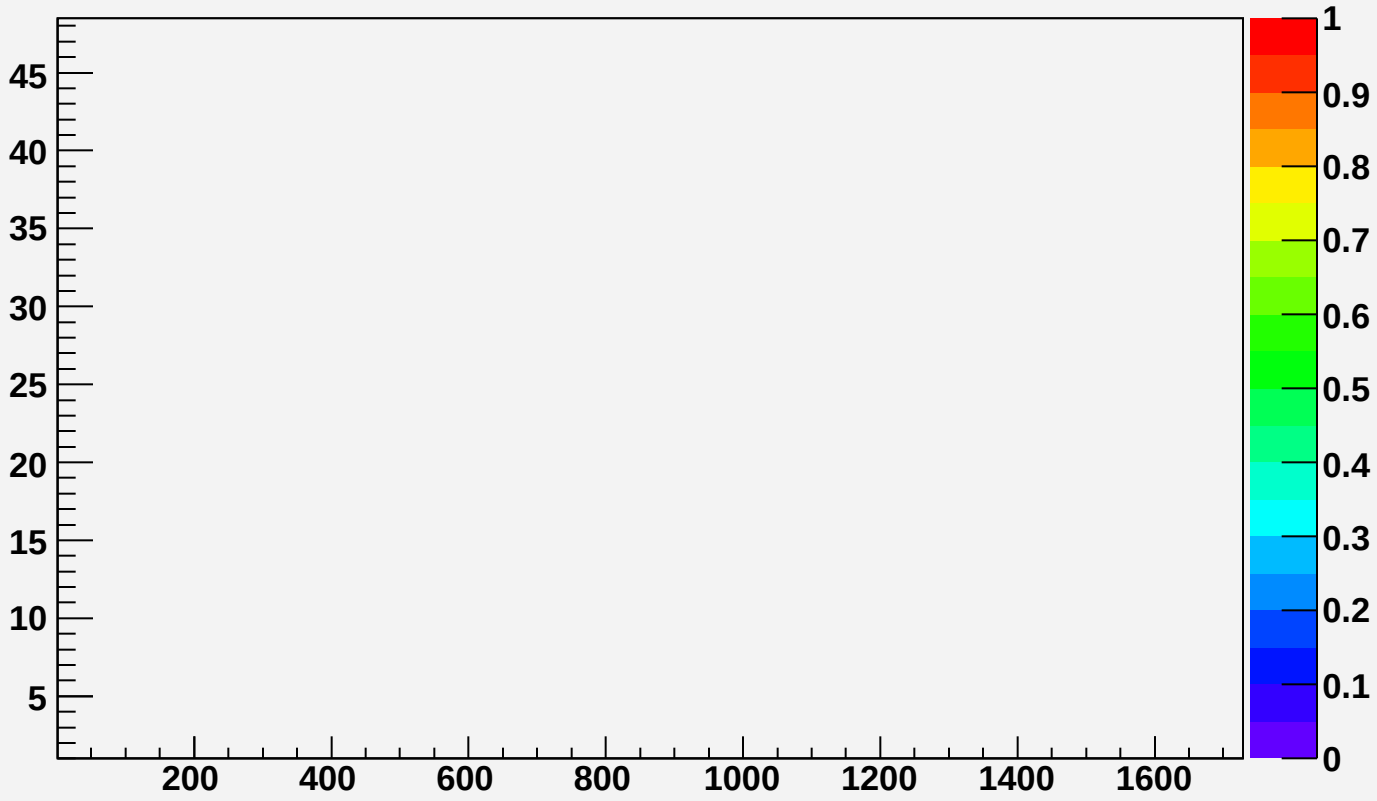

Channel_vs_ADC for PreShower Chain 47
h428_pmd_Chain_47
Entries 586304
Mean 0
RMS 0

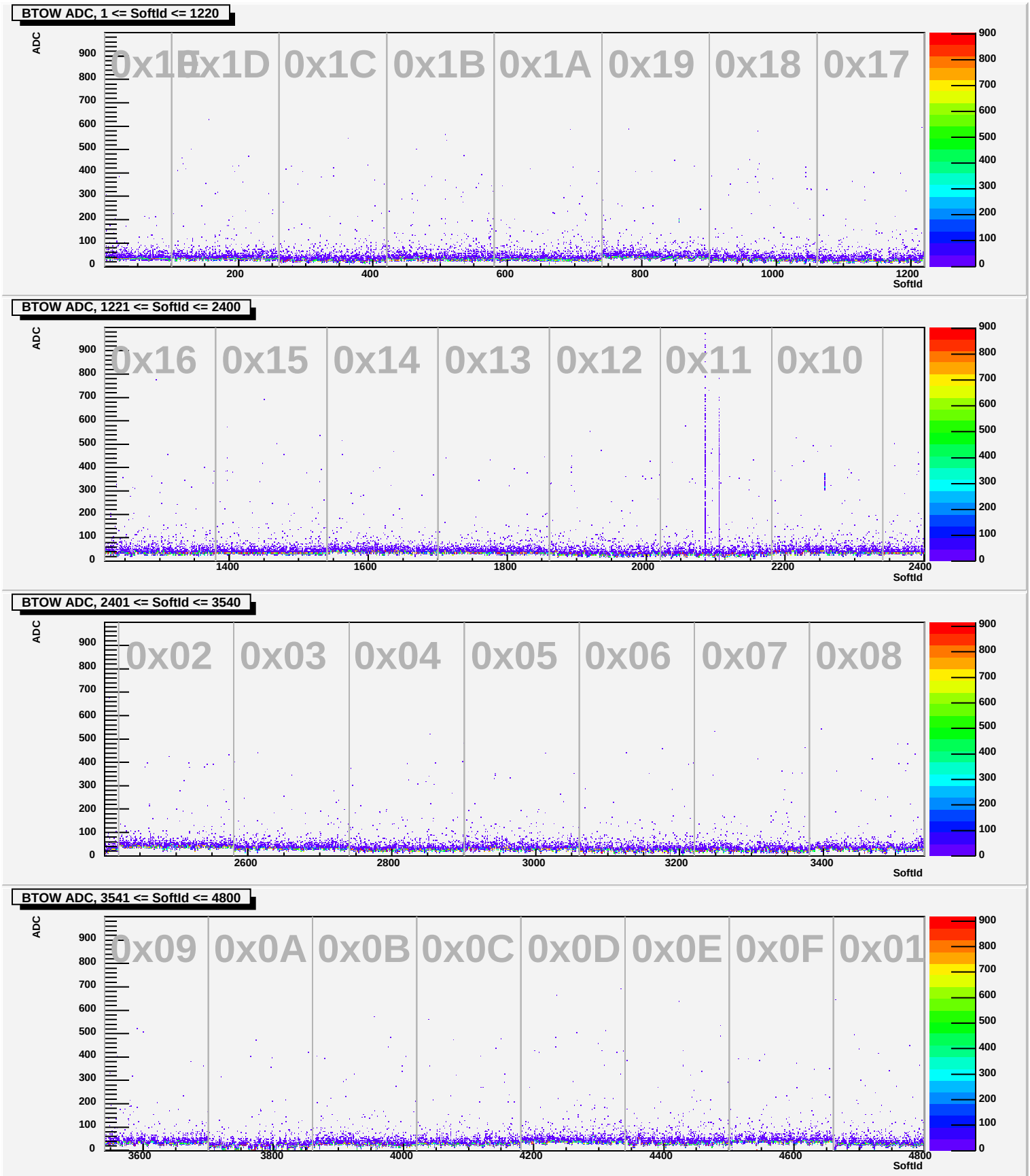

Channel_vs_ADC for PreShower Chain 48
h429_pmd_Chain_48
Entries 586304
Mean 0
RMS 0

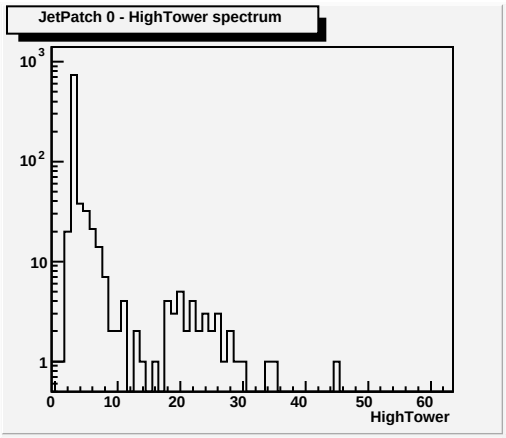
Chain vs Channel 2D

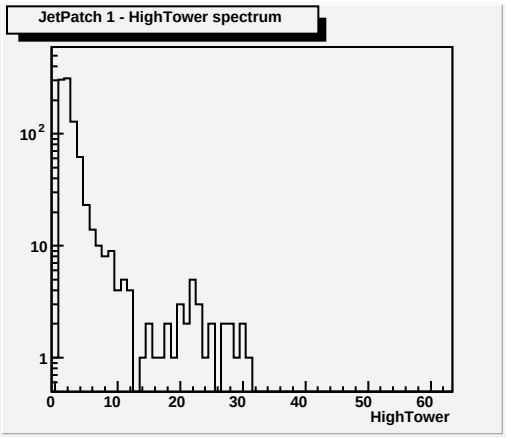


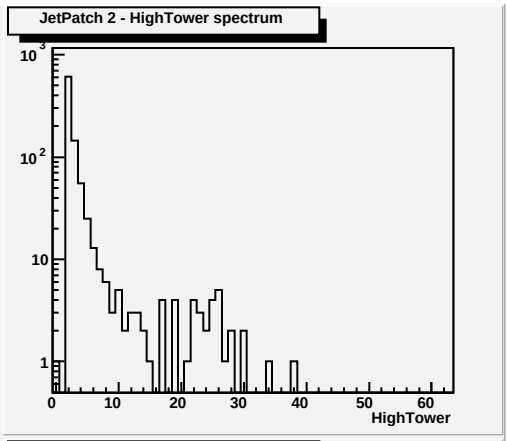
Chain vs Channel 2D (ADC weighted)

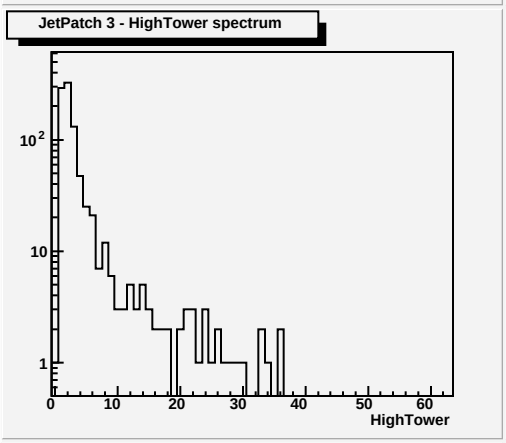


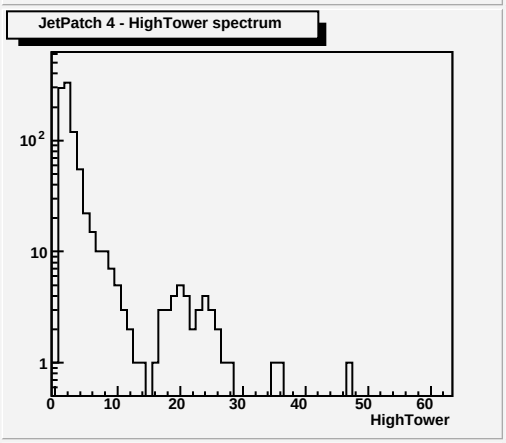

BTOW ADC, 1 <= SoftId <= 1220
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
ADC
SoftId
BTOW ADC, 1221 <= SoftId <= 2400
0x16 0x15 0x14 0x13 0x12 0x11 0x10
ADC
SoftId
BTOW ADC, 2401 <= SoftId <= 3540
0x02 0x03 0x04 0x05 0x06 0x07 0x08
ADC
SoftId
BTOW ADC, 3541 <= SoftId <= 4800
0x09 0x0A 0x0B 0x0C 0x0D 0x0E 0x0F 0x01
ADC
SoftId

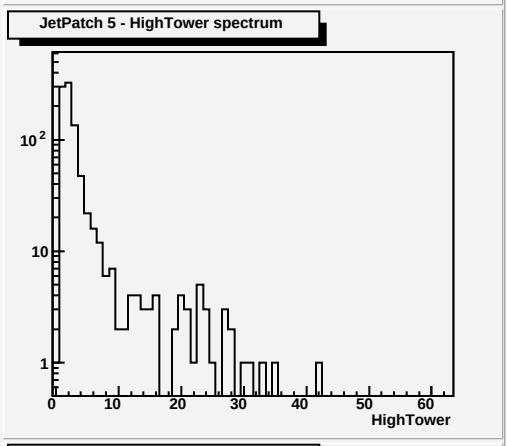

JetPatch 0 - HighTower spectrum
HighTower

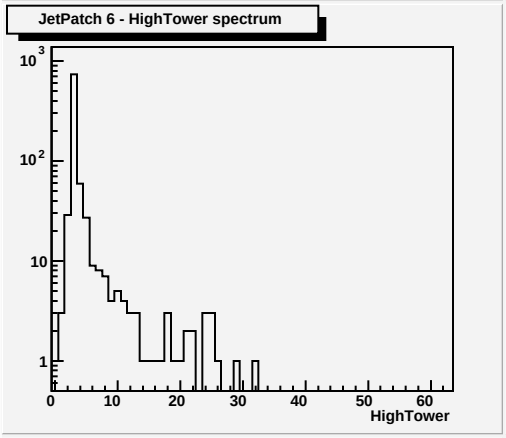

JetPatch 1 - HighTower spectrum
HighTower

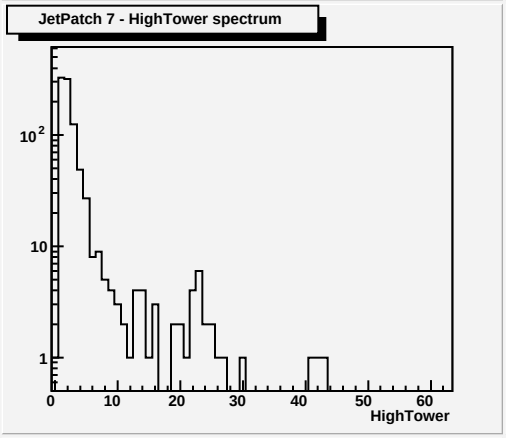

JetPatch 2 - HighTower spectrum
HighTower

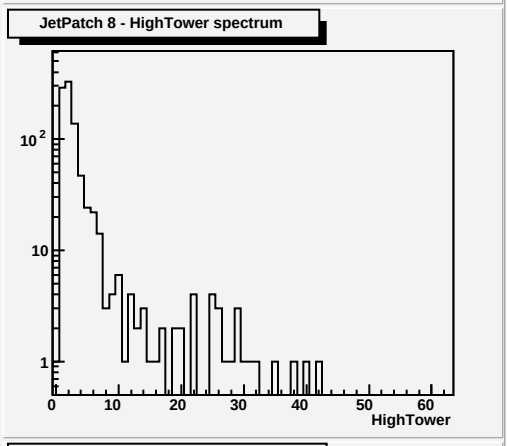

JetPatch 3 - HighTower spectrum
HighTower

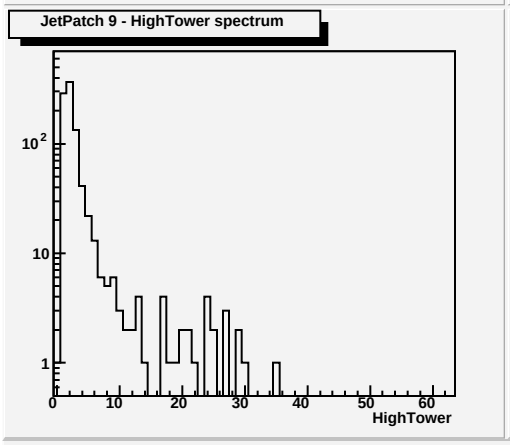

JetPatch 4 - HighTower spectrum
HighTower

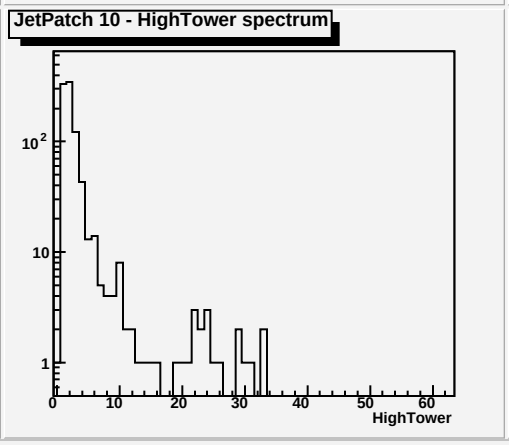

JetPatch 5 - HighTower spectrum
HighTower

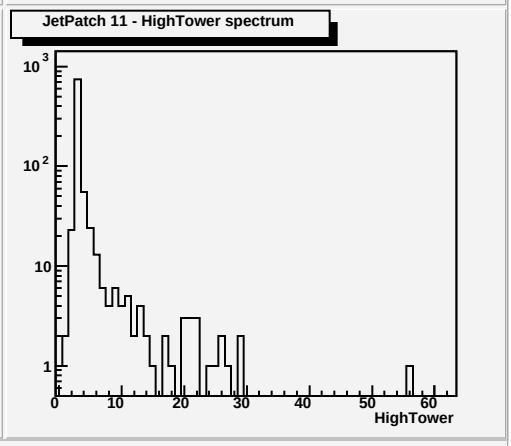

JetPatch 6 - HighTower spectrum
HighTower

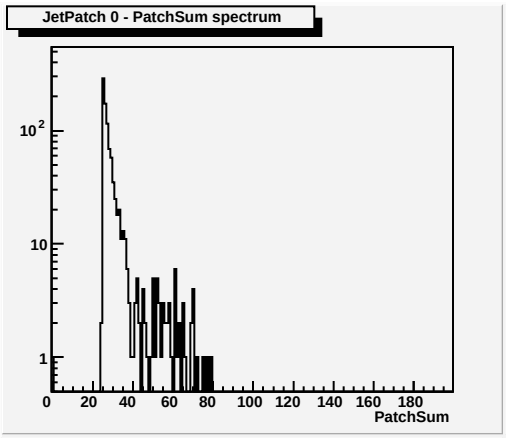

JetPatch 7 - HighTower spectrum
HighTower

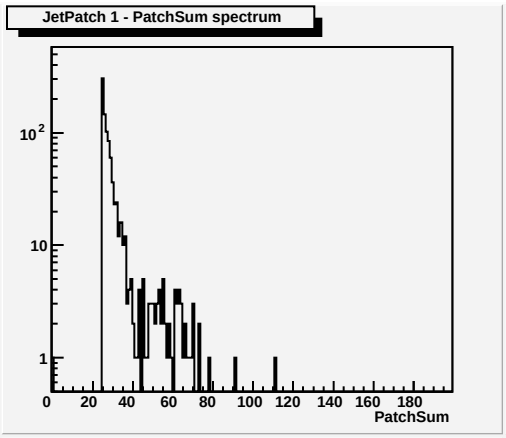

JetPatch 8 - HighTower spectrum
HighTower

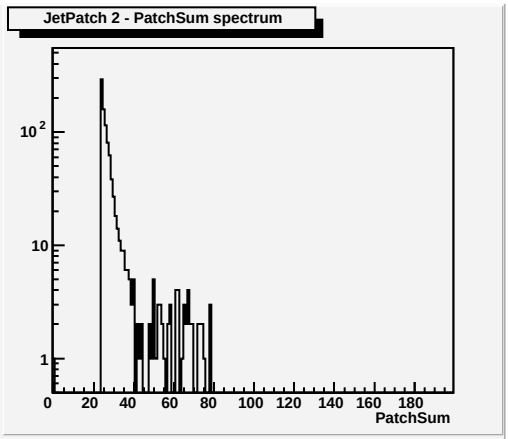

JetPatch 9 - HighTower spectrum
HighTower

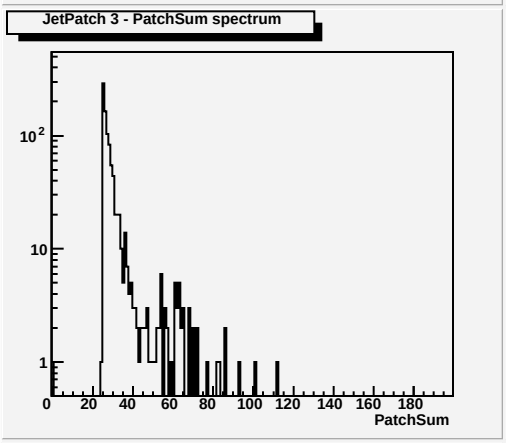

JetPatch 10 - HighTower spectrum
HighTower

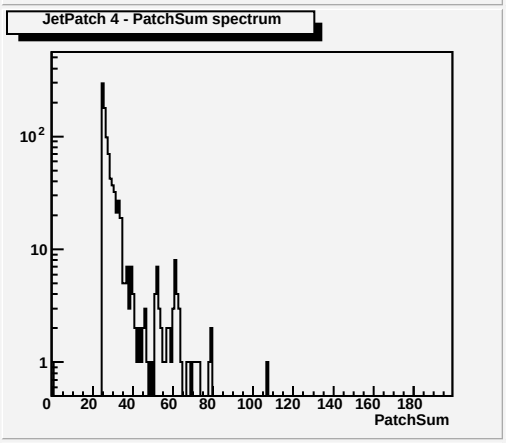

JetPatch 11 - HighTower spectrum
HighTower

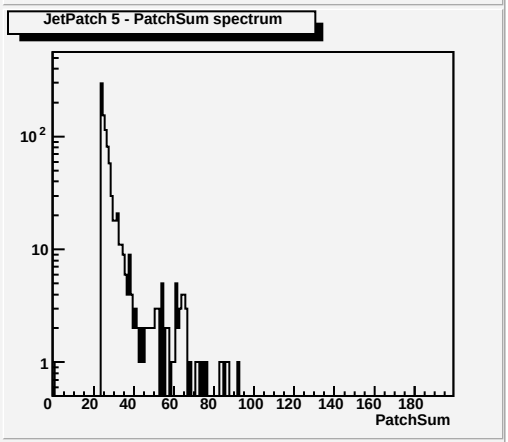

JetPatch 0 - PatchSum spectrum
PatchSum

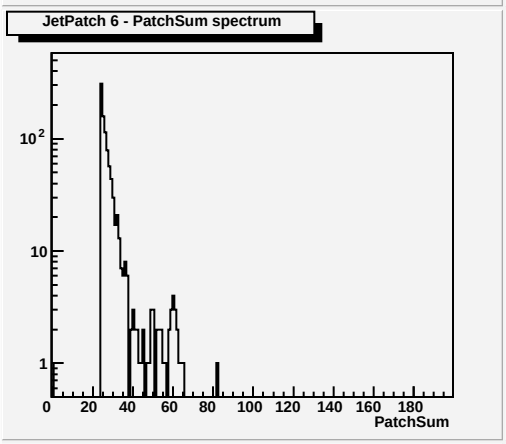

JetPatch 1 - PatchSum spectrum
PatchSum

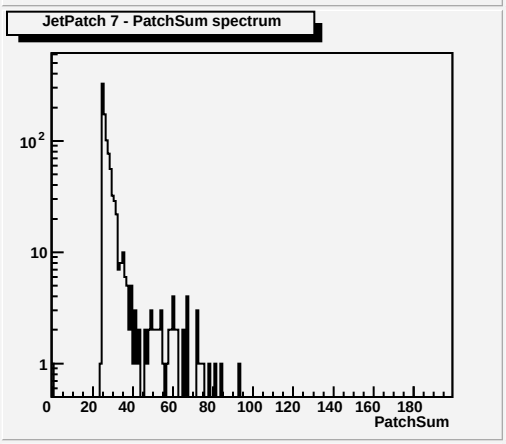

JetPatch 2 - PatchSum spectrum
PatchSum

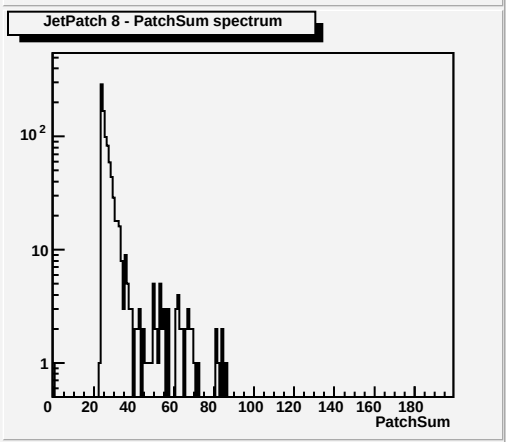

JetPatch 3 - PatchSum spectrum
PatchSum

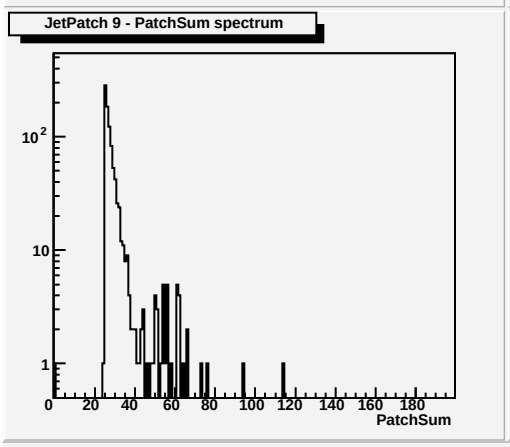

JetPatch 4 - PatchSum spectrum
PatchSum

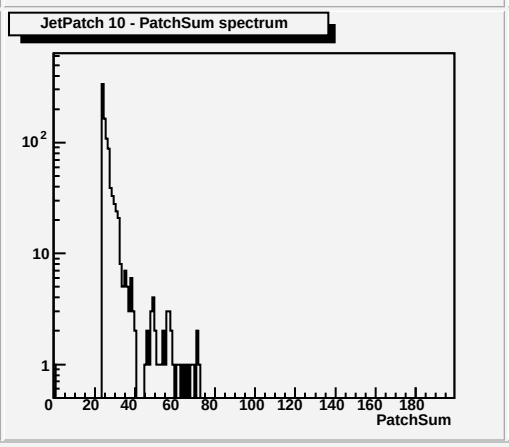

JetPatch 5 - PatchSum spectrum
PatchSum

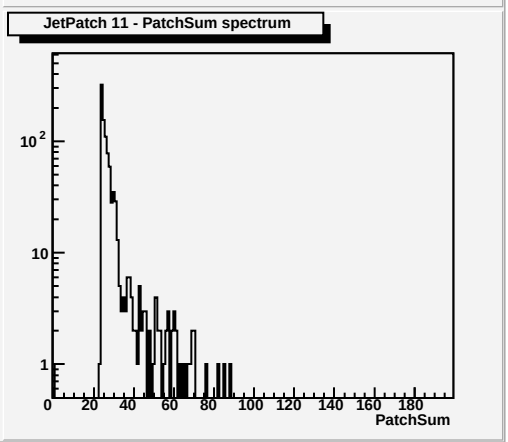

JetPatch 6 - PatchSum spectrum
PatchSum


JetPatch 7 - PatchSum spectrum
PatchSum

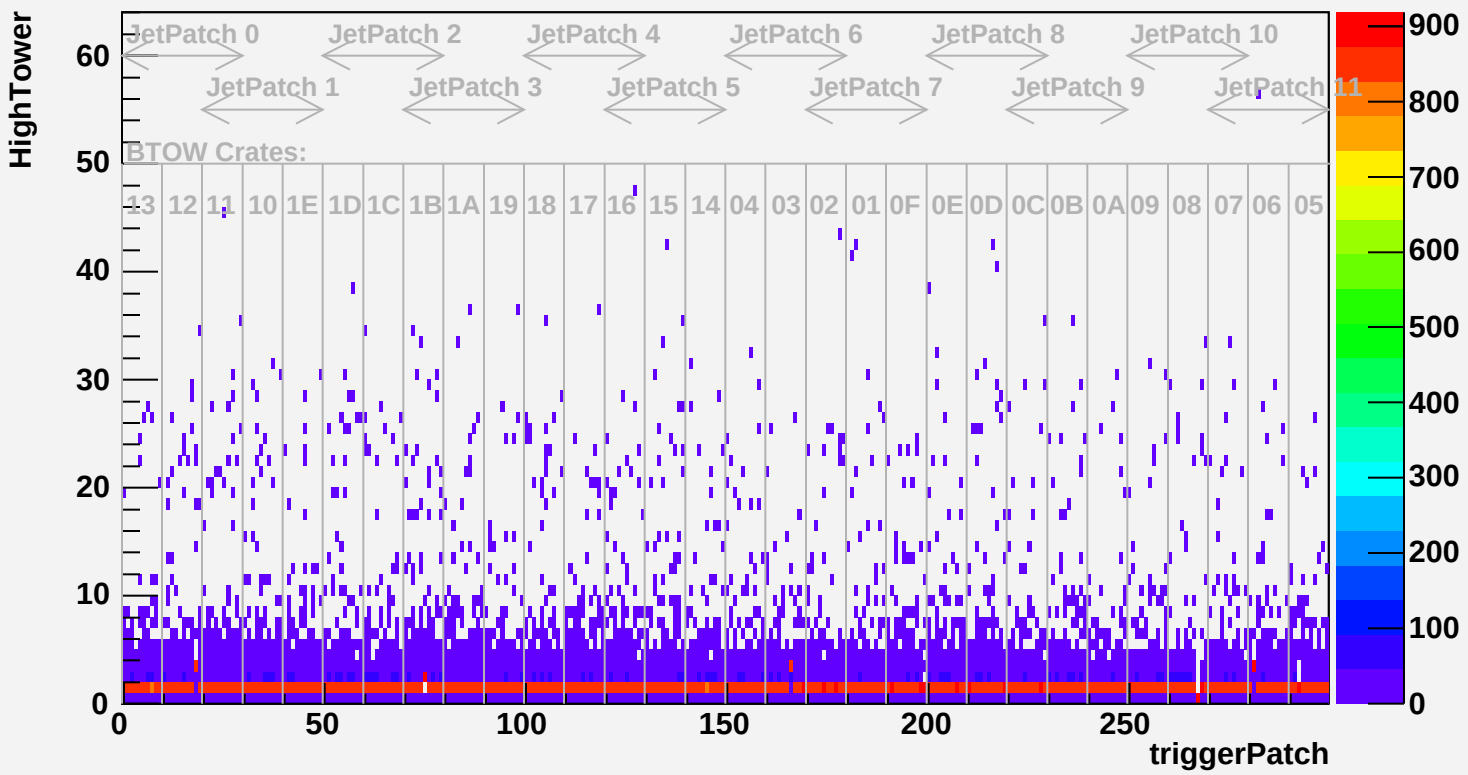

JetPatch 8 - PatchSum spectrum
PatchSum


JetPatch 9 - PatchSum spectrum
PatchSum

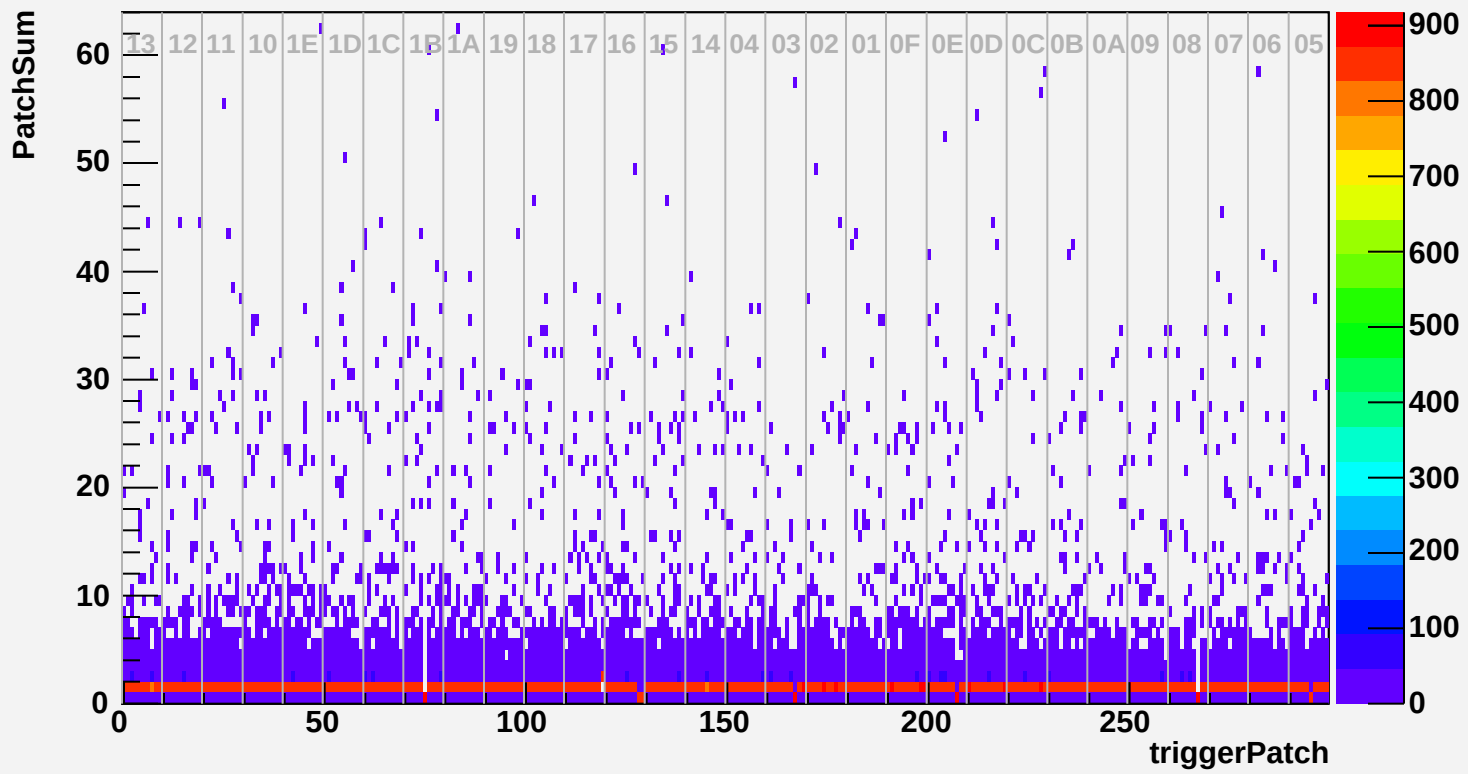

JetPatch 10 - PatchSum spectrum
PatchSum

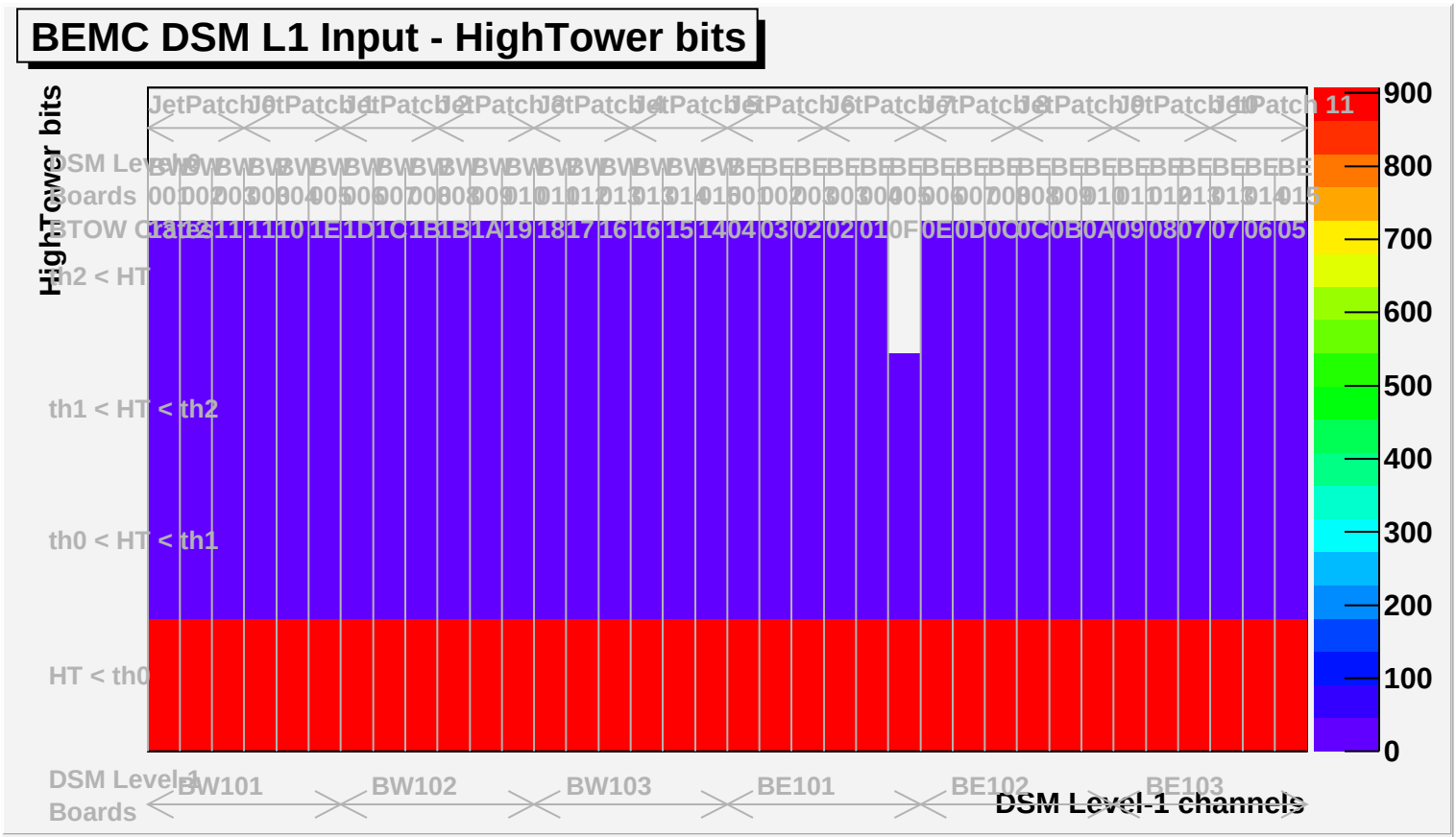

JetPatch 11 - PatchSum spectrum
PatchSum

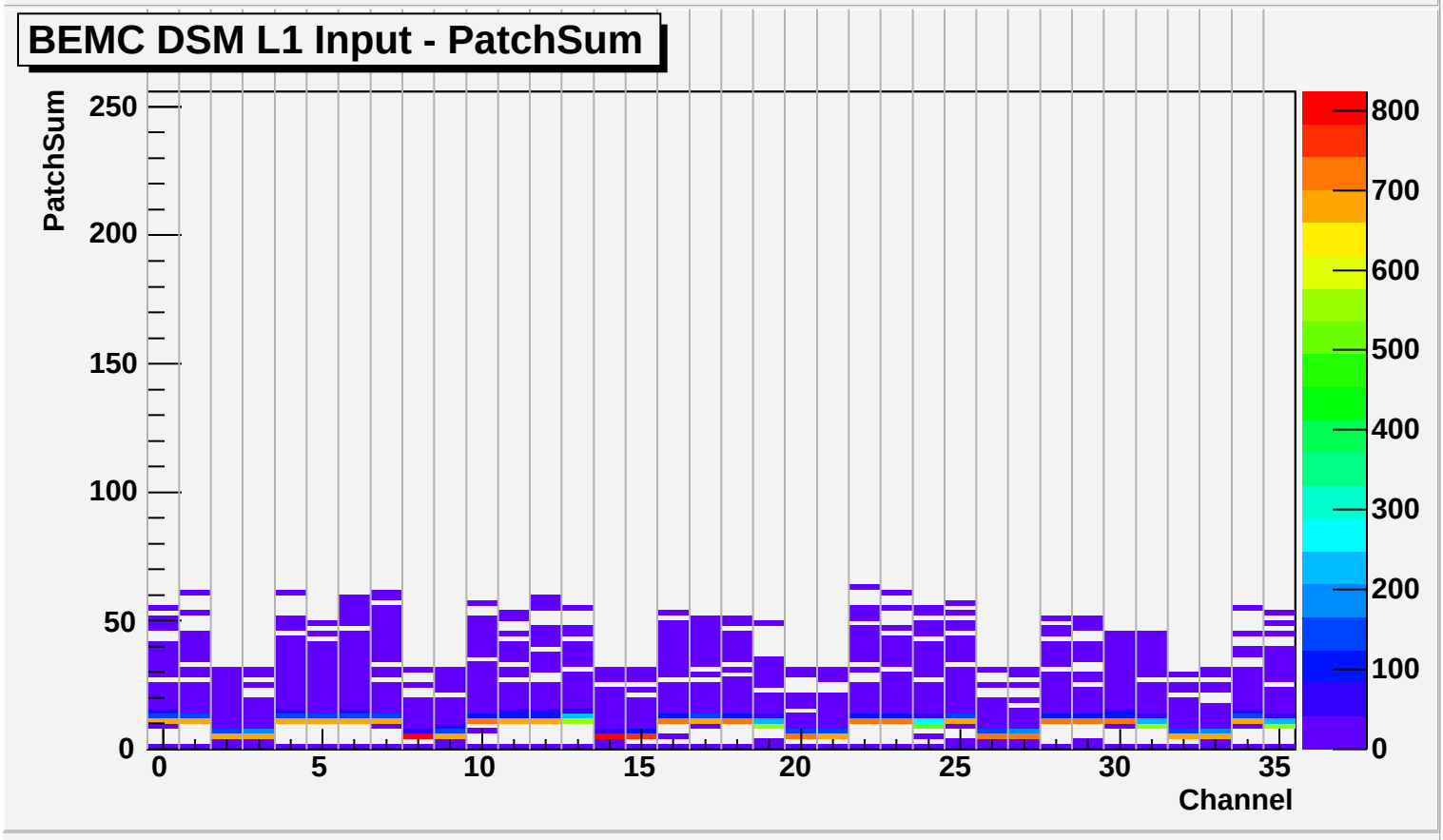
BEMC DSM L0 Input - HighTower

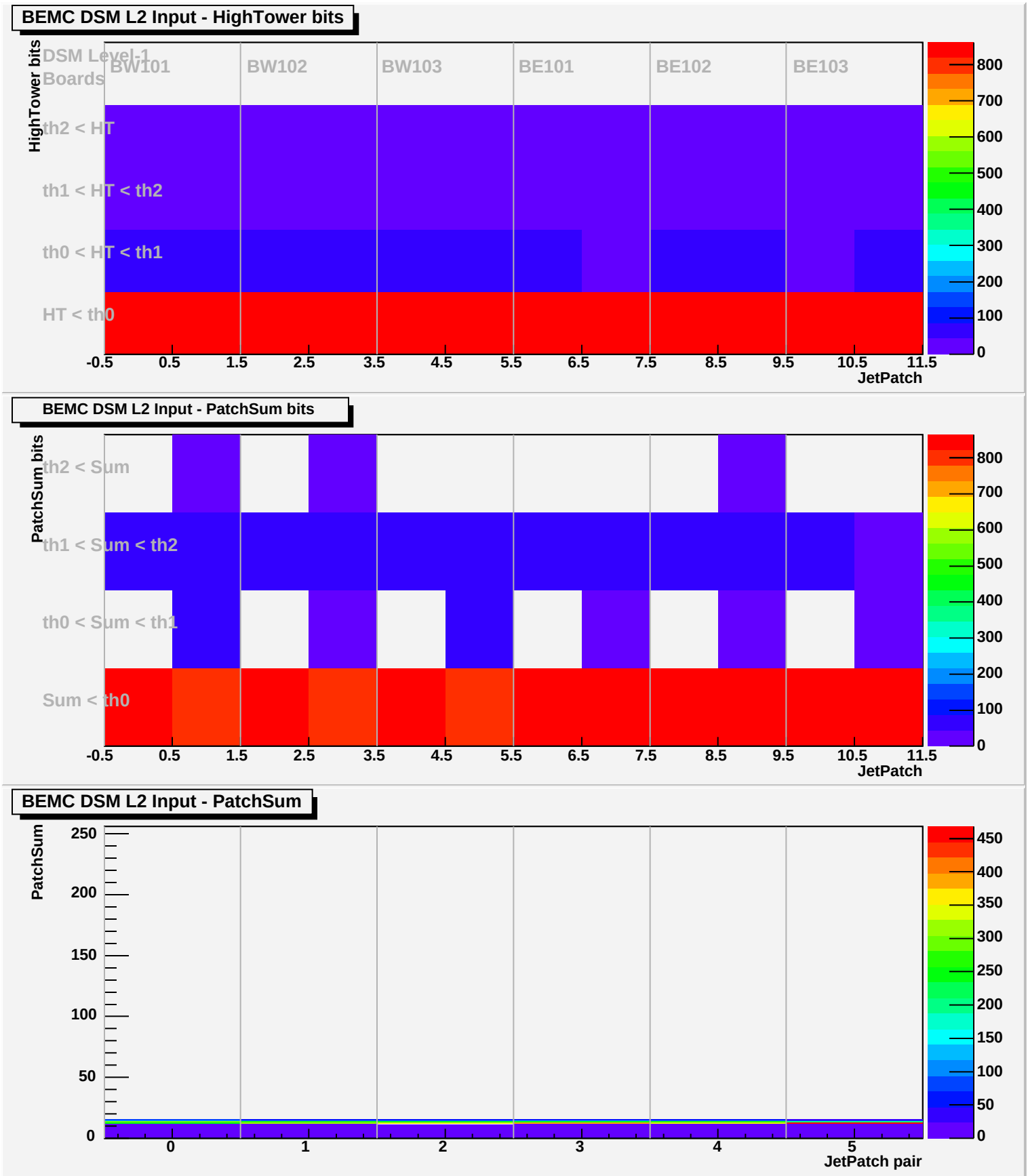


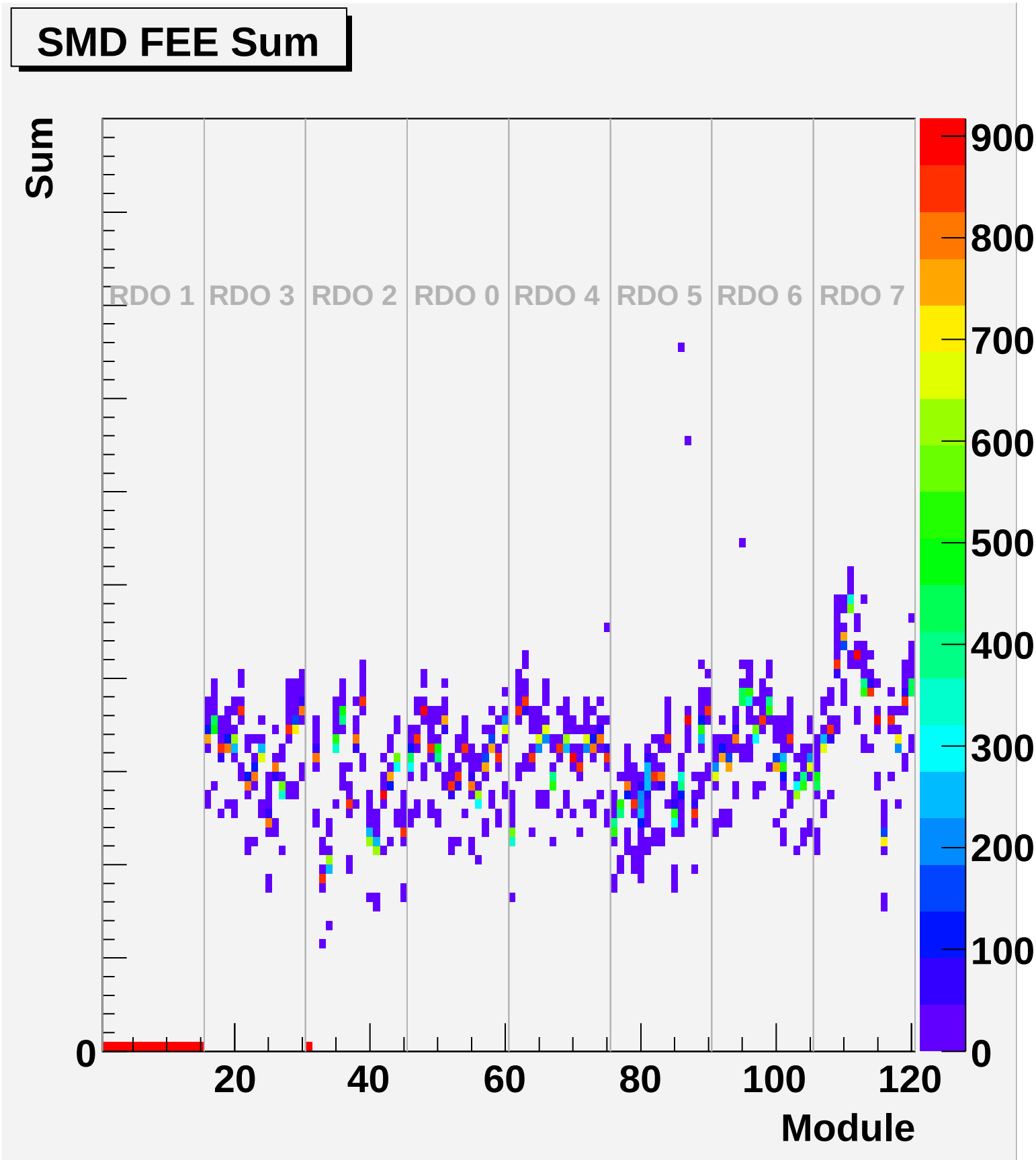
BEMC DSM L0 Input - PatchSum

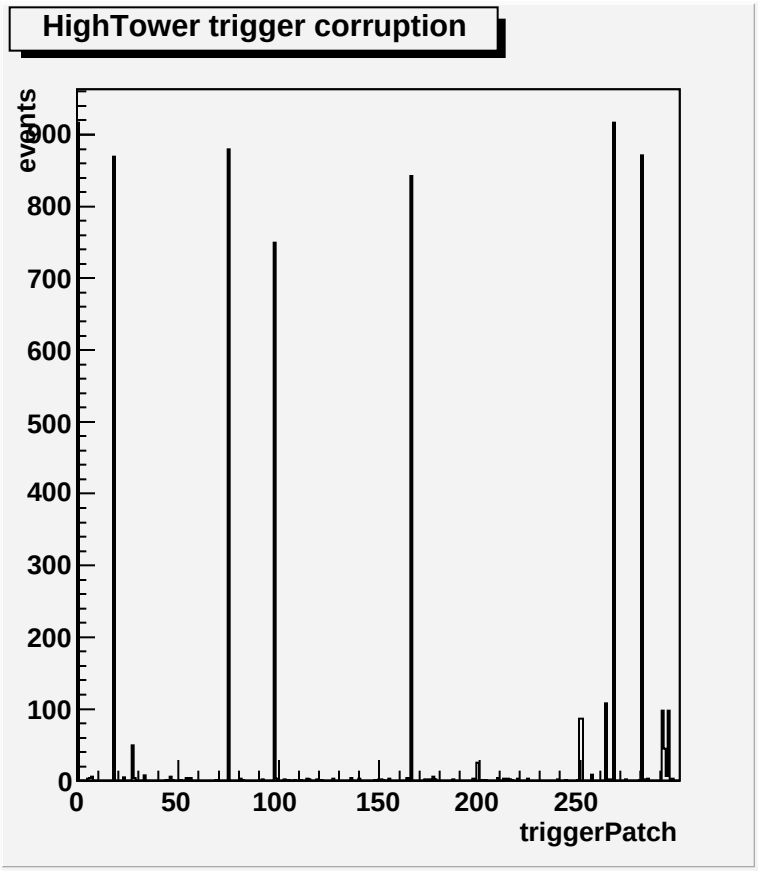


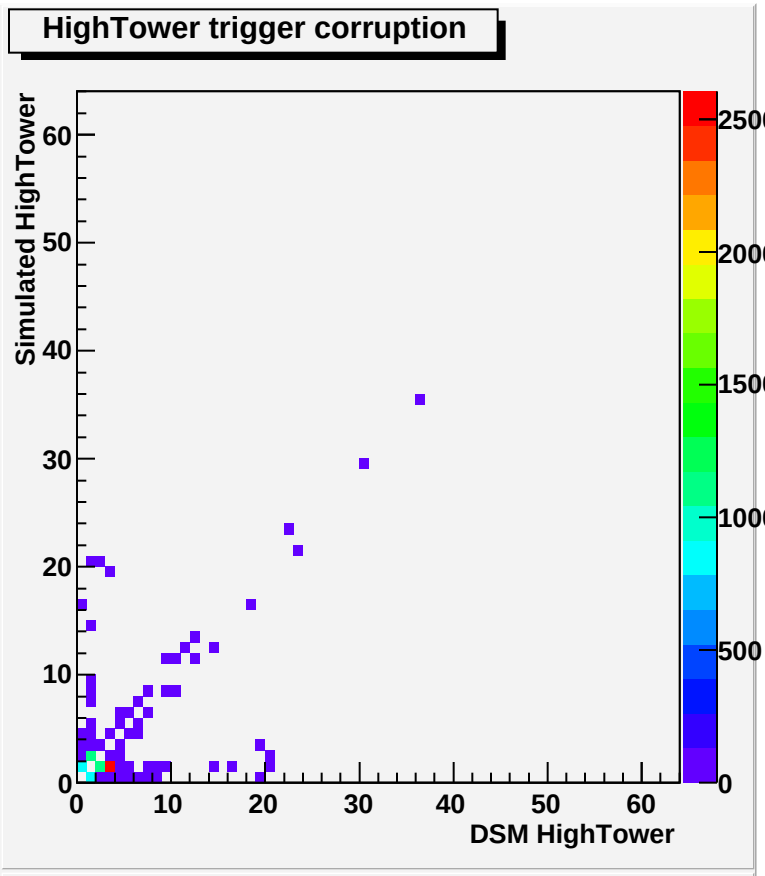

BEMC DSM L1 Input - HighTower bits
HighTower bits
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103
DSM Level-1 channels
900
800
700
600
500
400
300
200
100
0

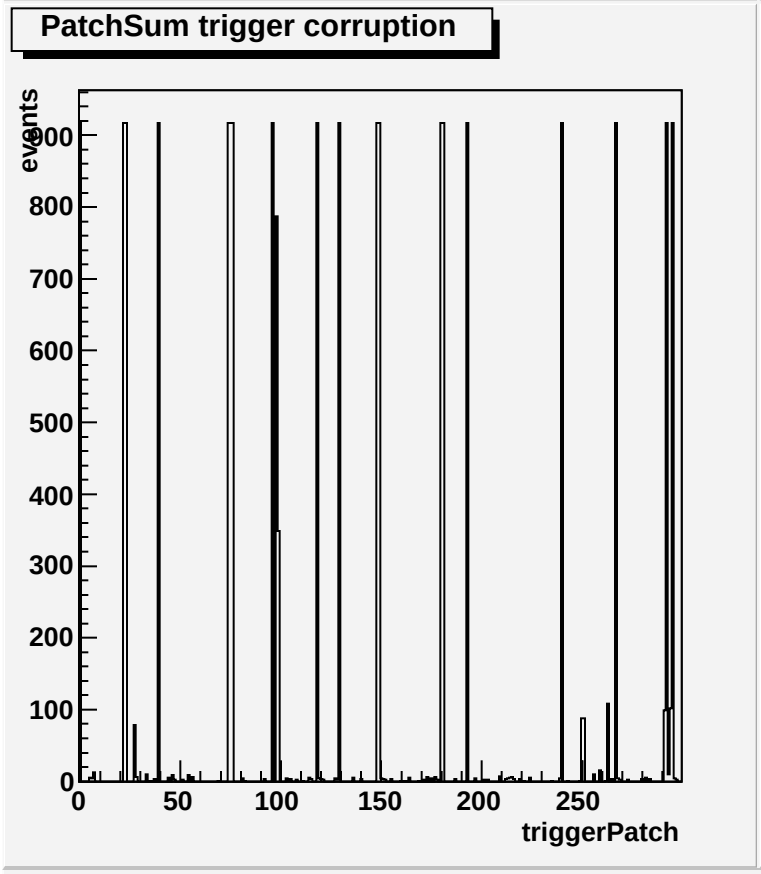

BEMC DSM L1 Input - PatchSum
PatchSum
250
200
150
100
50
0
0
5
10
15
20
25
30
35
Channel
800
700
600
500
400
300
200
100
0

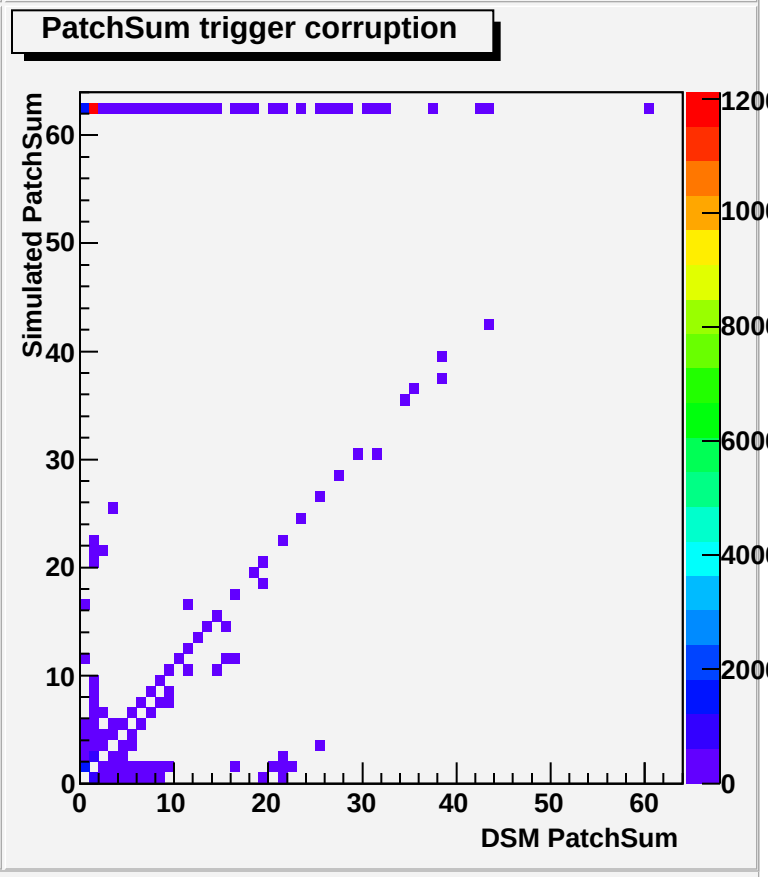

BEMC DSM L2 Input - HighTower bits
HighTower bits
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
0 100 200 300 400 500 600 700 800
BEMC DSM L2 Input - PatchSum bits
PatchSum bits
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
-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
0 100 200 300 400 500 600 700 800
BEMC DSM L2 Input - PatchSum
PatchSum
0 50 100 150 200 250
0 1 2 3 4 5
JetPatch pair
0 50 100 150 200 250 300 350 400 450

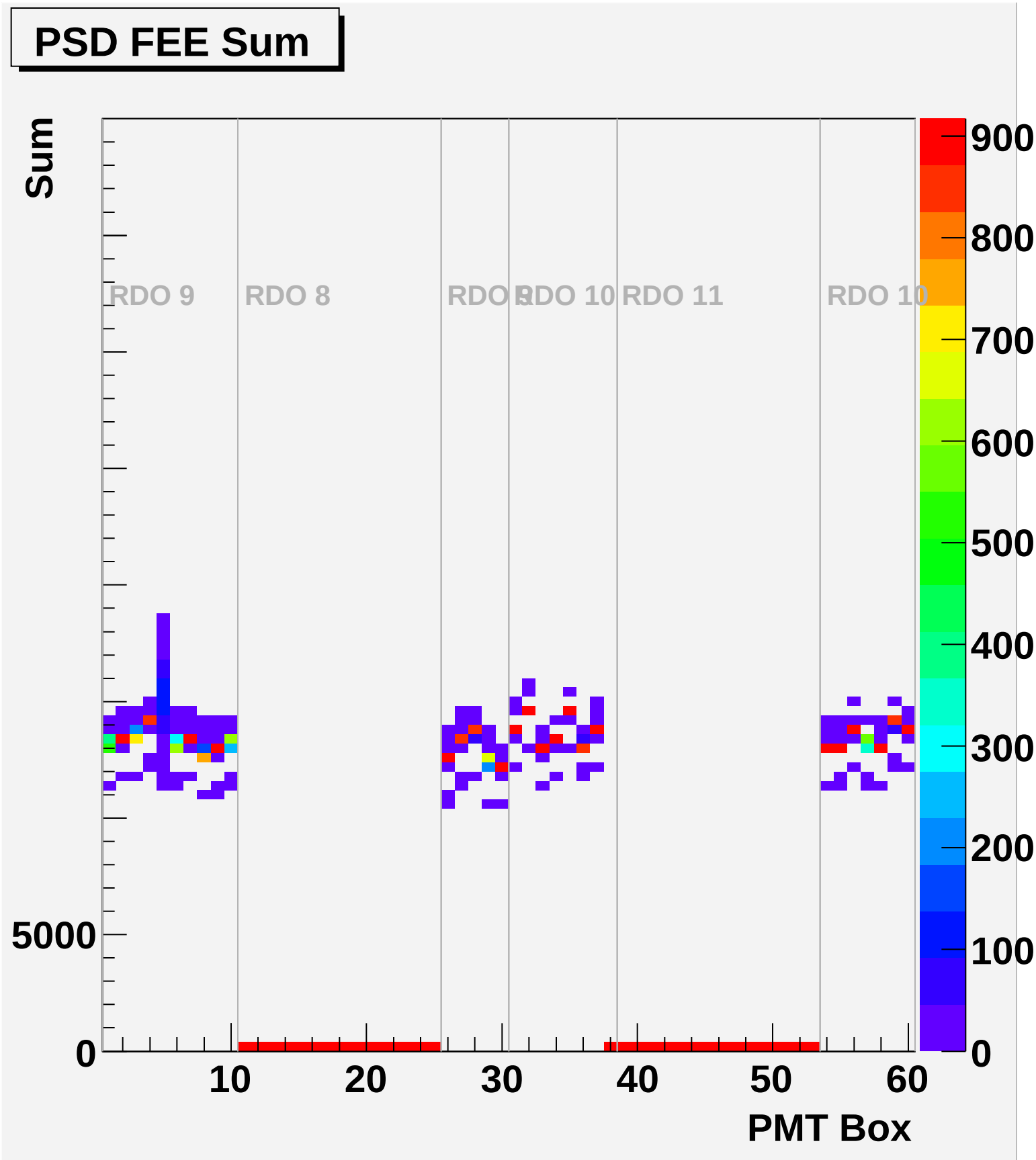

SMD FEE Sum
Sum
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 6
RDO 7
0
20
40
60
80
100
120
Module
900
800
700
600
500
400
300
200
100
0


HighTower trigger corruption
events
triggerPatch


HighTower trigger corruption
Simulated HighTower
DSM HighTower


PatchSum trigger corruption
events
triggerPatch


PatchSum trigger corruption
Simulated PatchSum
DSM PatchSum


PSD FEE Sum
Sum
5000
0
RDO 9
RDO 8
RDO 10
RDO 11
10
20
30
40
50
60
PMT Box
900
800
700
600
500
400
300
200
100
0