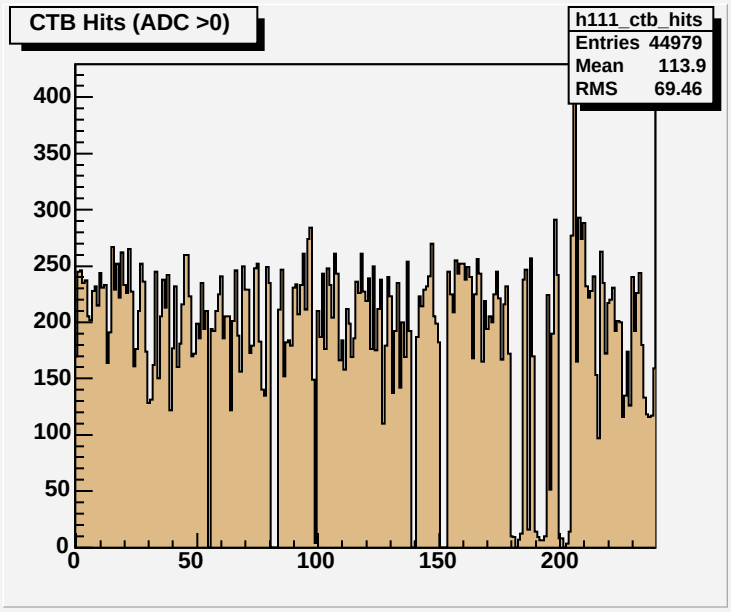
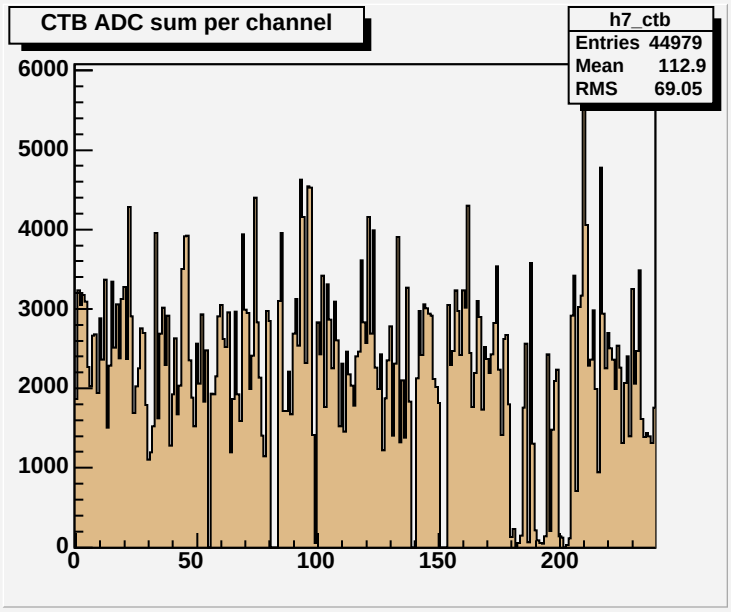
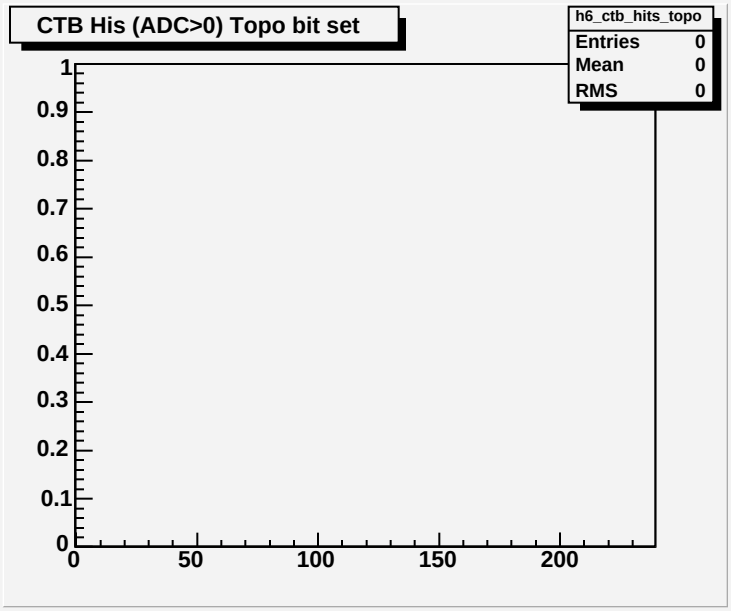
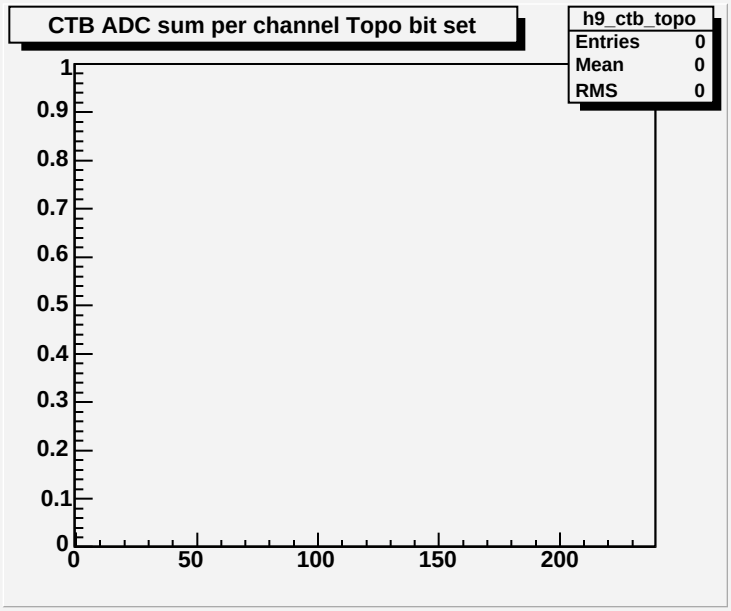
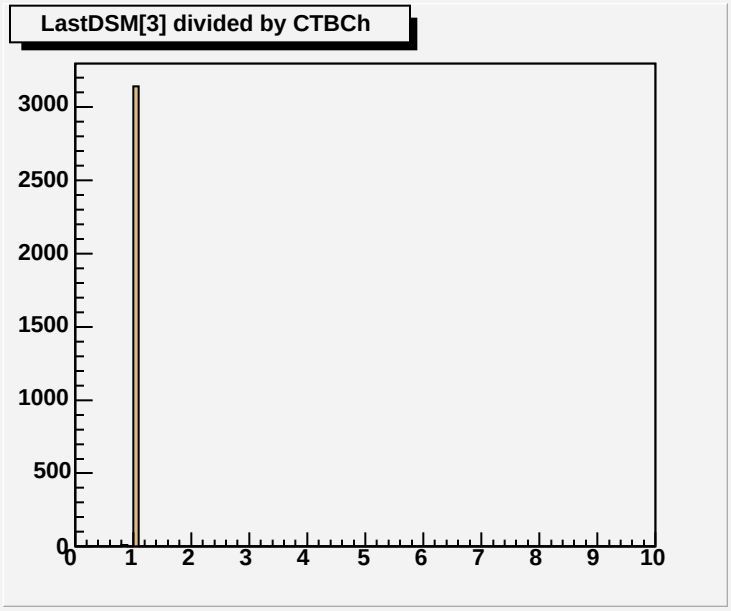
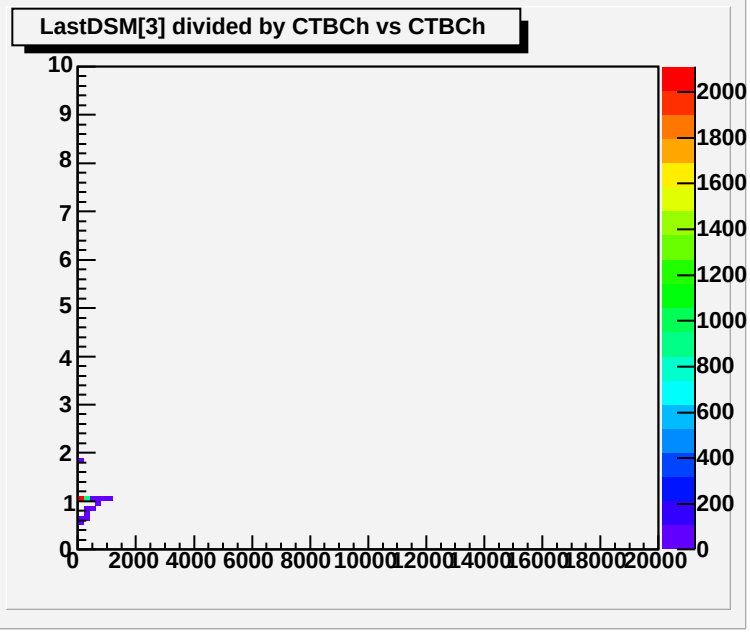

CTB Hits (ADC >0)
h111_ctb_hits
Entries 44979
Mean 113.9
RMS 69.46

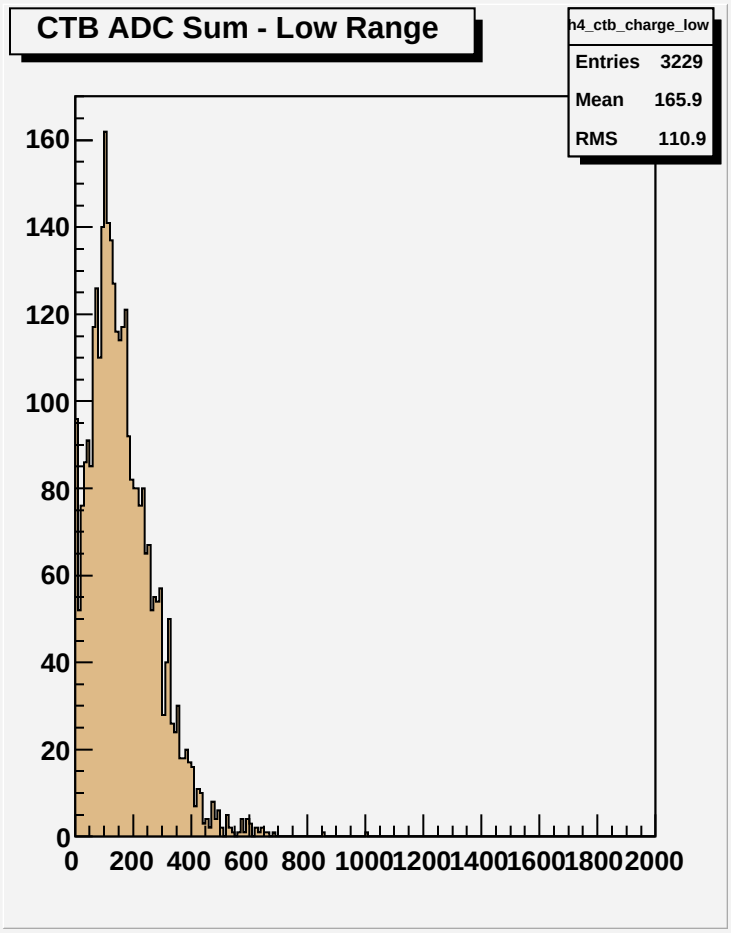

CTB ADC sum per channel
h7_ctb
Entries 44979
Mean 112.9
RMS 69.05

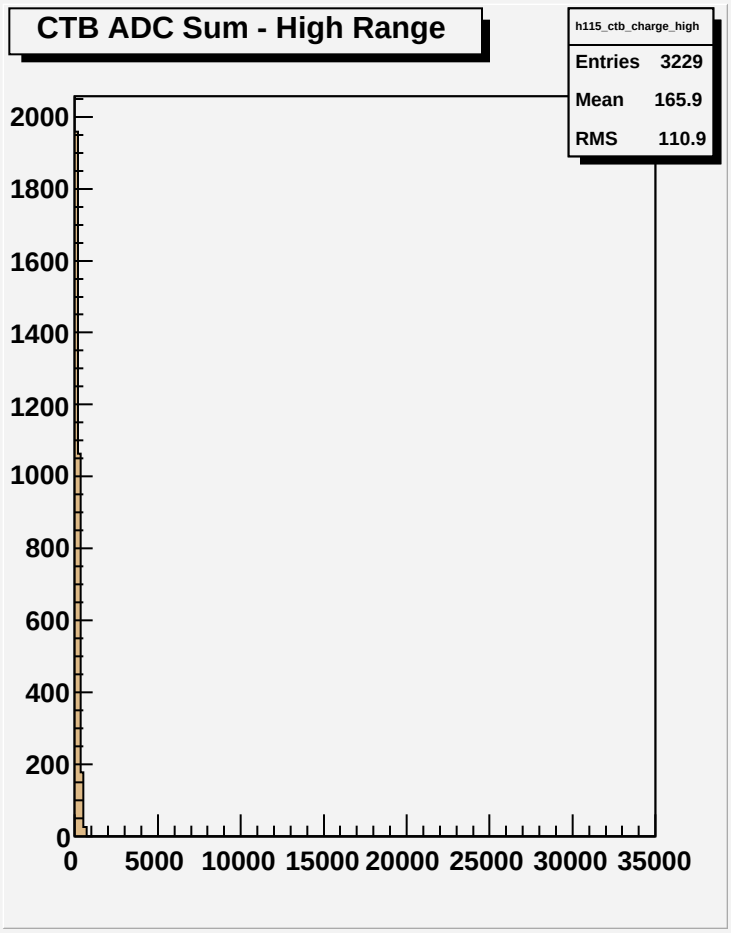

CTB His (ADC>0) Topo bit set
h6_ctb_hits_topo
Entries 0
Mean 0
RMS 0

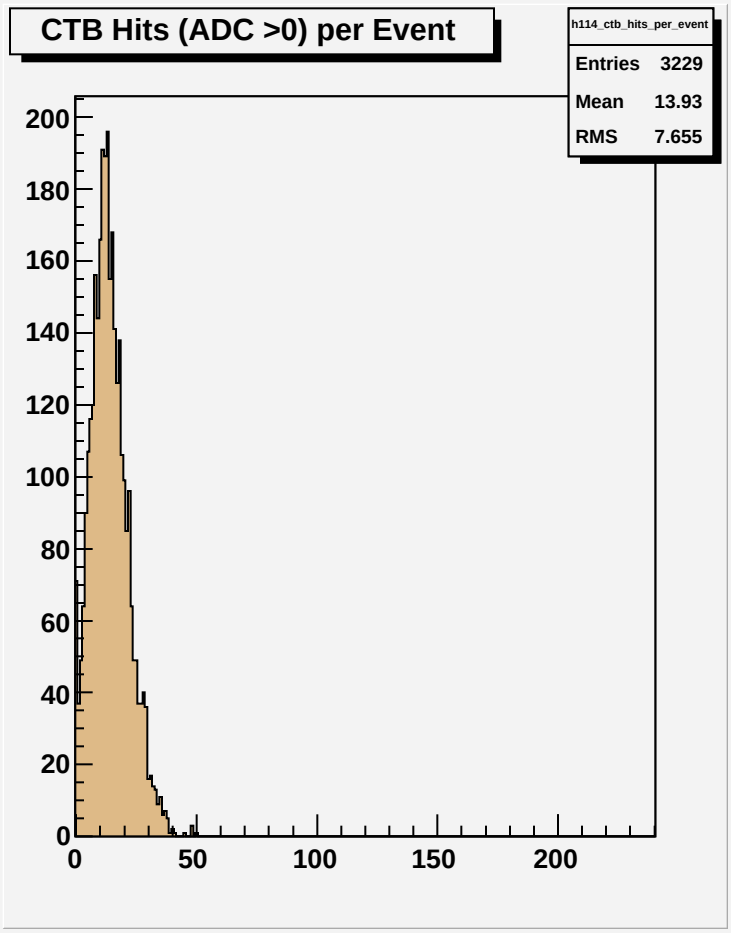

CTB ADC sum per channel Topo bit set
h9_ctb_topo
Entries 0
Mean 0
RMS 0

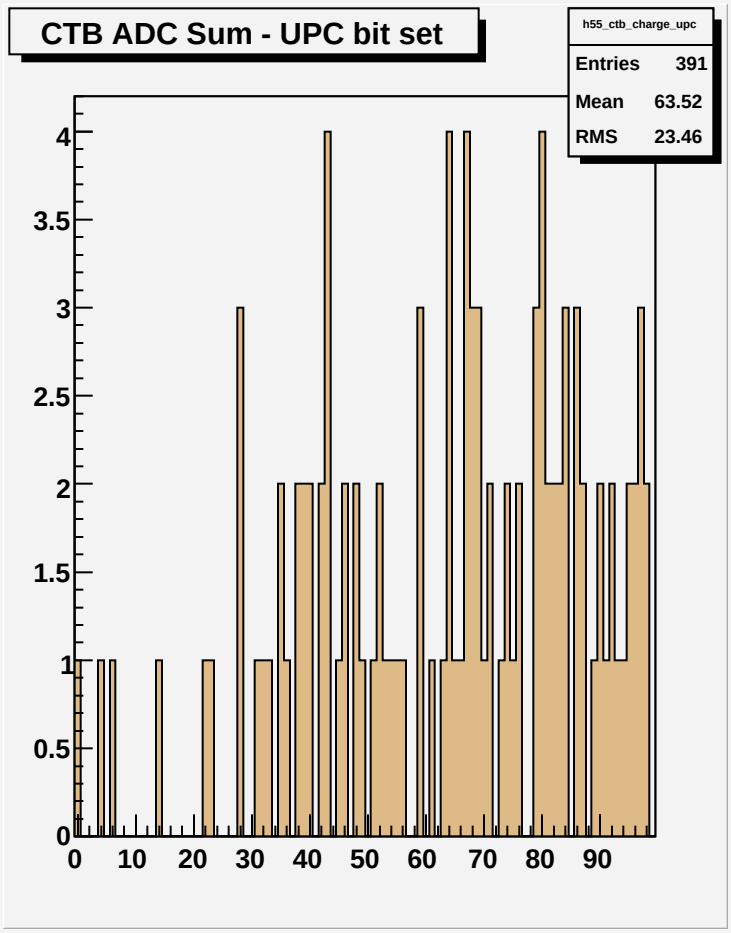

LastDSM[3] divided by CTBCh

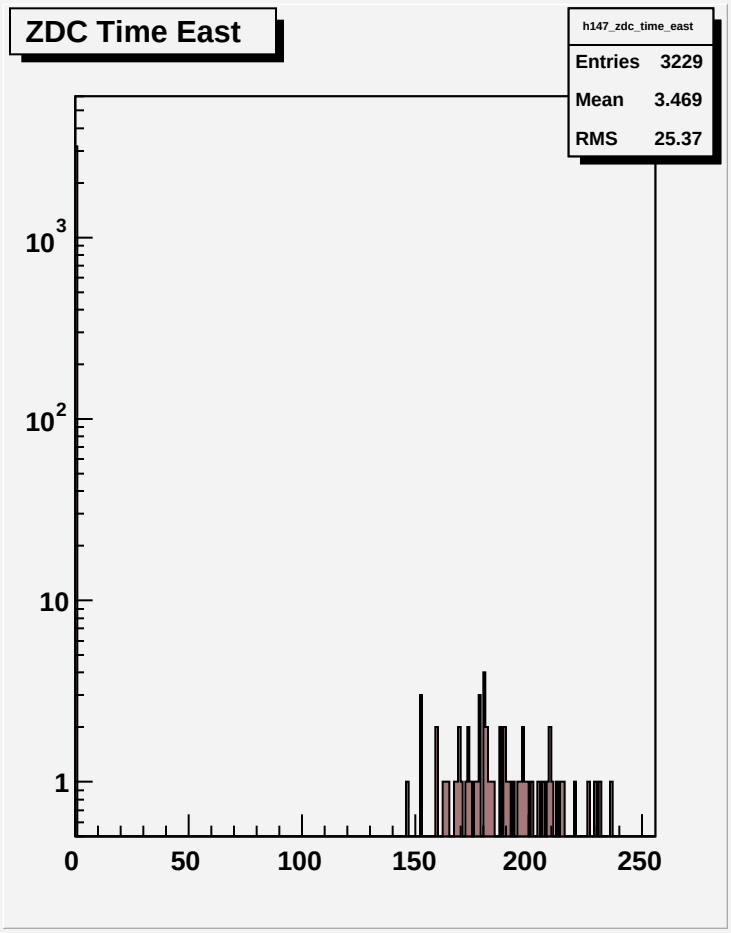

LastDSM[3] divided by CTBCh vs CTBCh

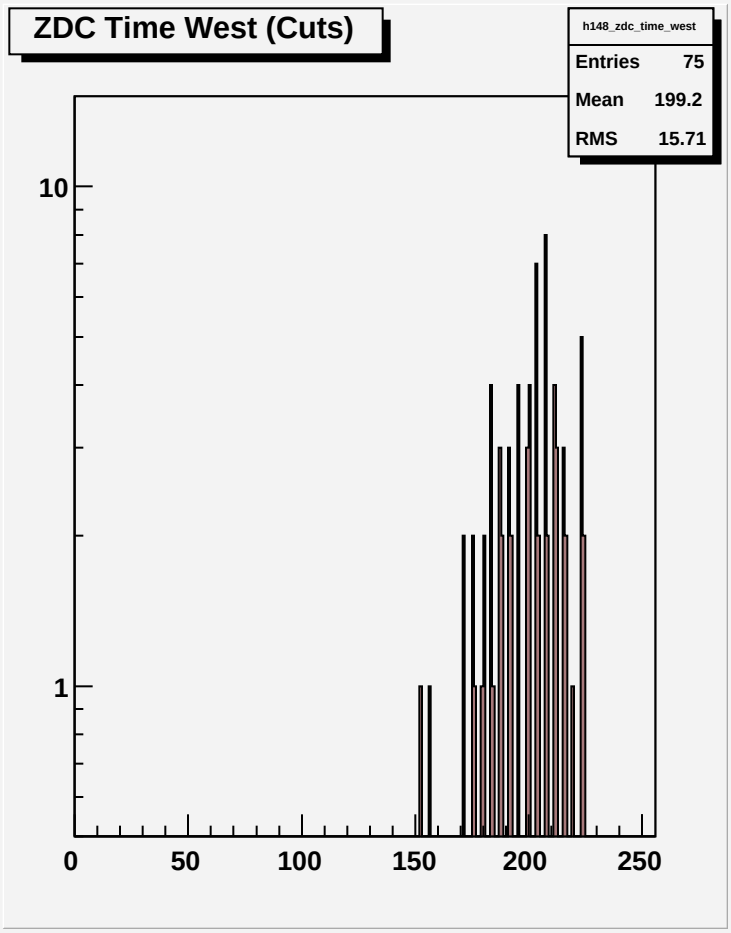

CTB ADC Sum - Low Range
h4_ctb_charge_low
Entries 3229
Mean 165.9
RMS 110.9
0 20 40 60 80 100 120 140 160
0 200 400 600 800 1000 1200 1400 1600 1800 2000

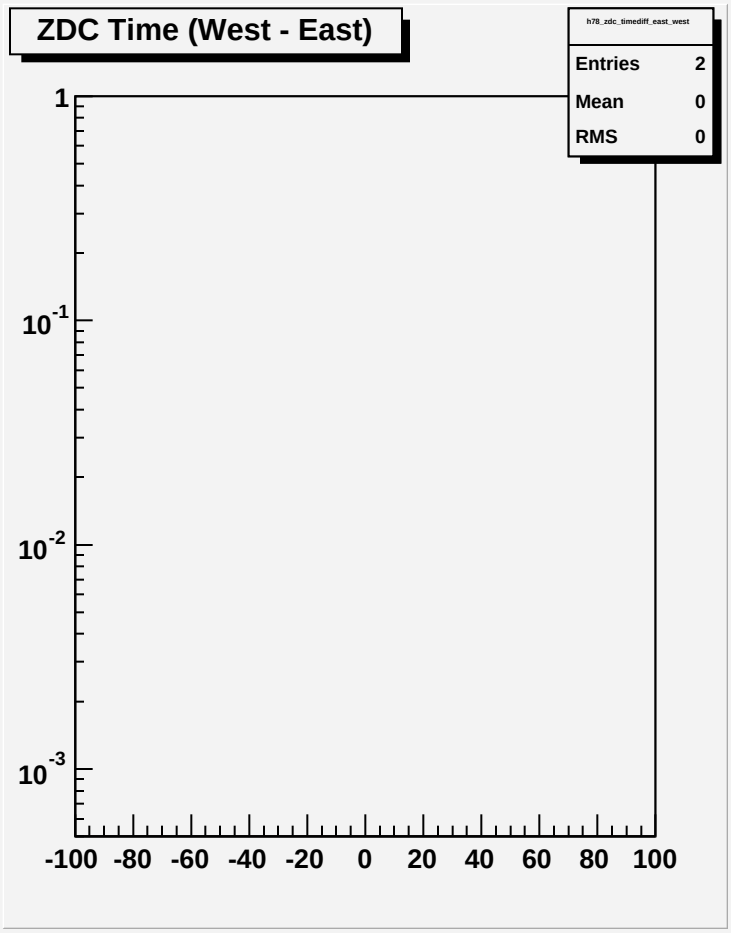

CTB ADC Sum - High Range
h115_ctb_charge_high
Entries 3229
Mean 165.9
RMS 110.9
0 200 400 600 800 1000 1200 1400 1600 1800 2000
0 5000 10000 15000 20000 25000 30000 35000

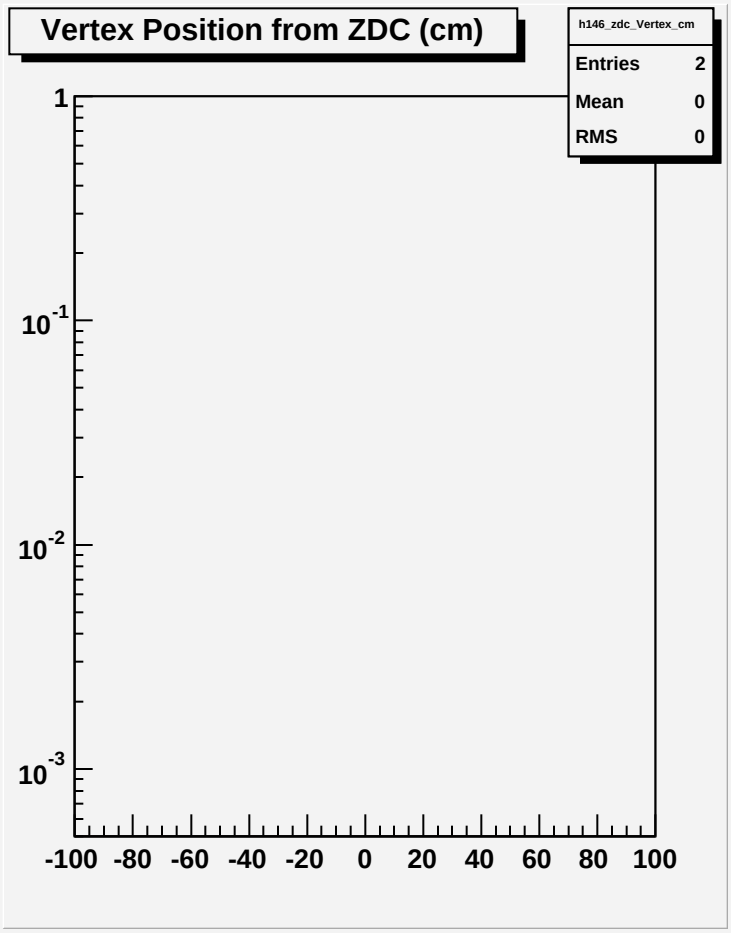

CTB Hits (ADC >0) per Event
h114_ctb_hits_per_event
Entries 3229
Mean 13.93
RMS 7.655
0 20 40 60 80 100 120 140 160 180 200
0 50 100 150 200

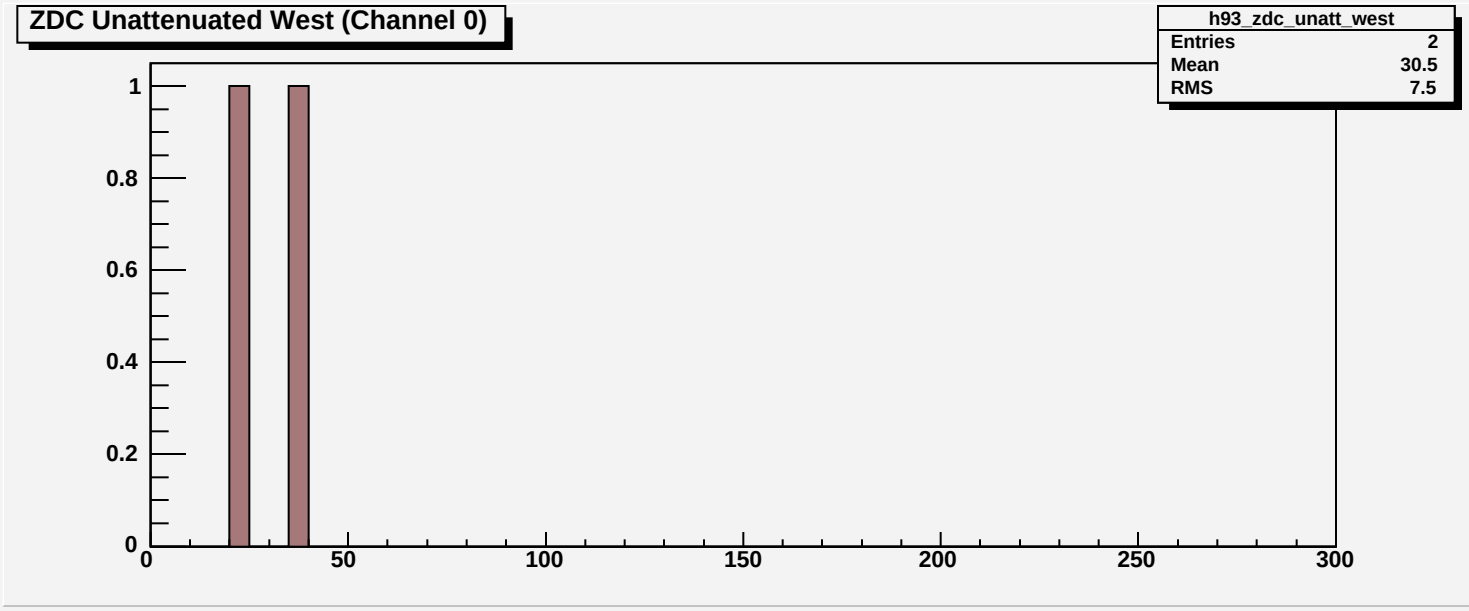

CTB ADC Sum - UPC bit set
h55_ctb_charge_upc
Entries 391
Mean 63.52
RMS 23.46
0 0.5 1 1.5 2 2.5 3 3.5 4
0 10 20 30 40 50 60 70 80 90

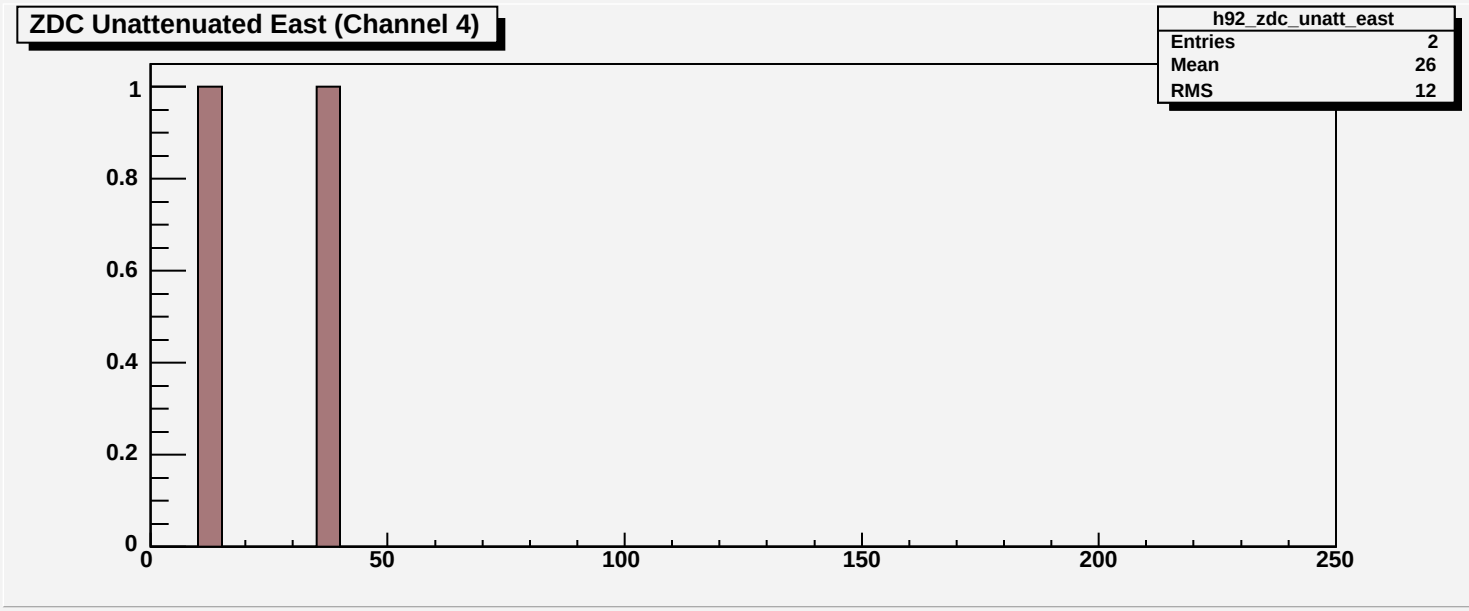

ZDC Time East
h147_zdc_time_east
Entries 3229
Mean 3.469
RMS 25.37
10^3
10^2
10
1
0
50
100
150
200
250

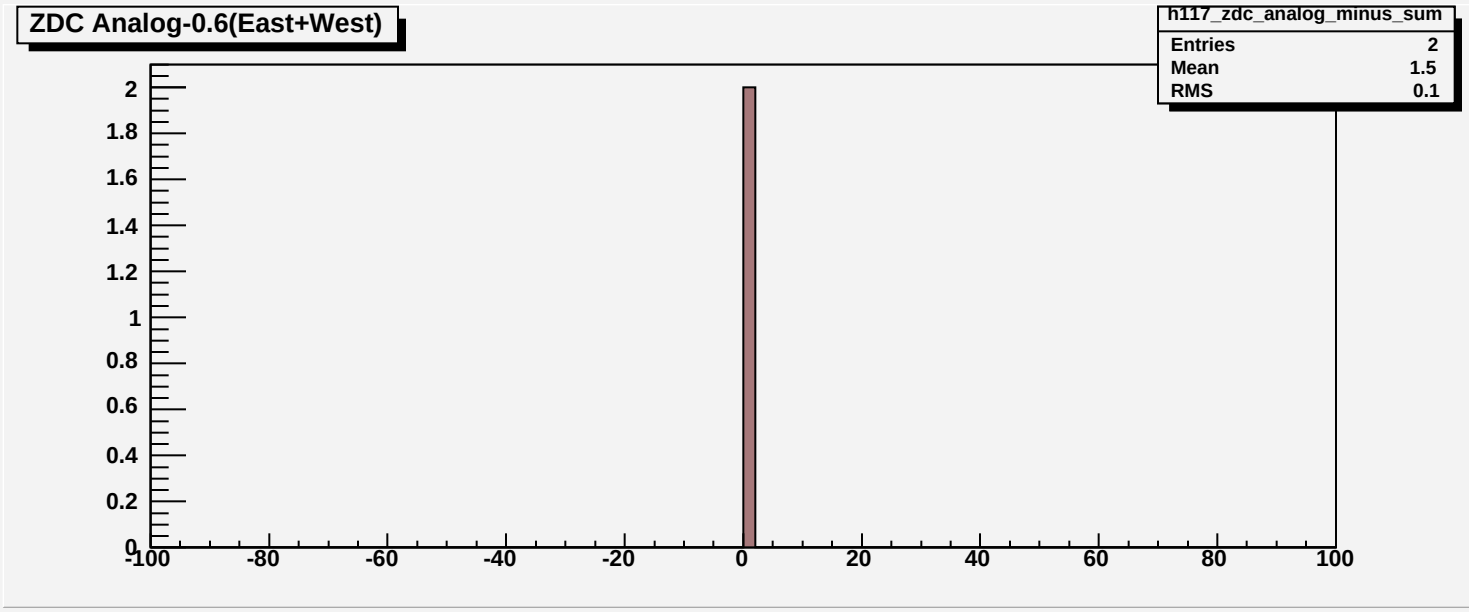

ZDC Time West (Cuts)
h148_zdc_time_west
Entries 75
Mean 199.2
RMS 15.71
10
1
0
50
100
150
200
250

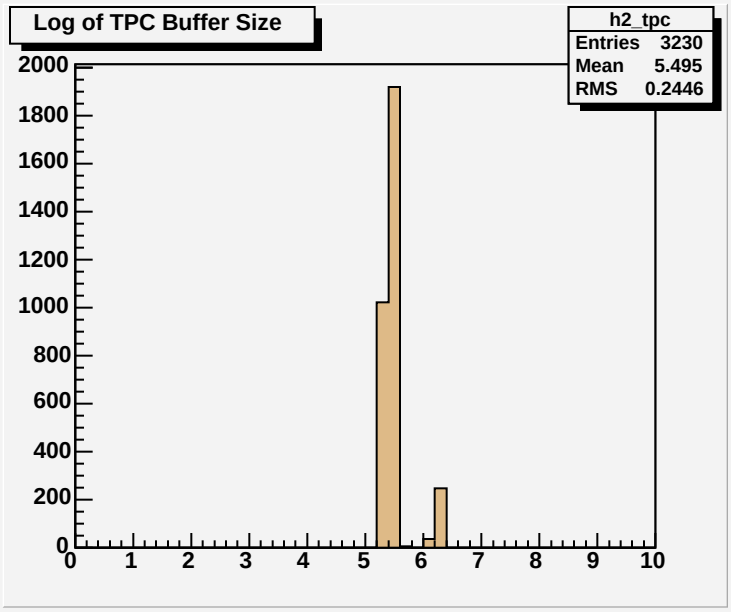

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 2
Mean 0
RMS 0
1
10^-1
10^-2
10^-3
-100
-80
-60
-40
-20
0
20
40
60
80
100

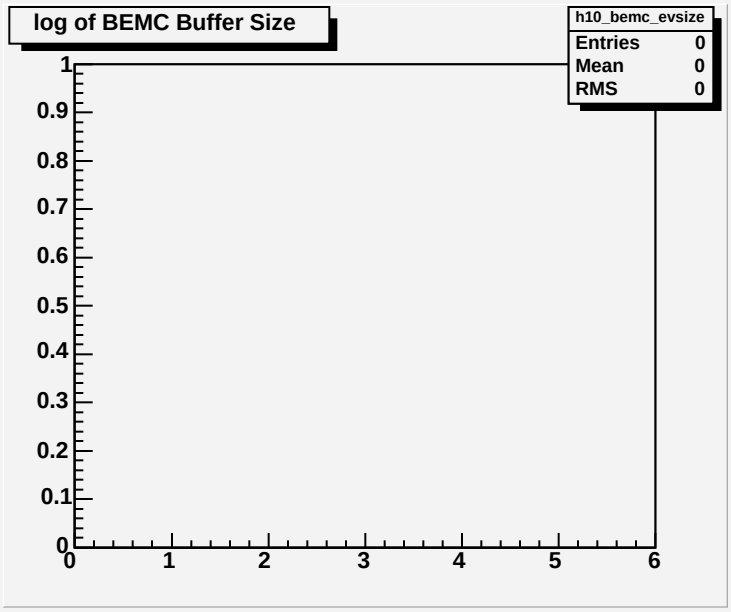

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 2
Mean 0
RMS 0
1
10^-1
10^-2
10^-3
-100
-80
-60
-40
-20
0
20
40
60
80
100

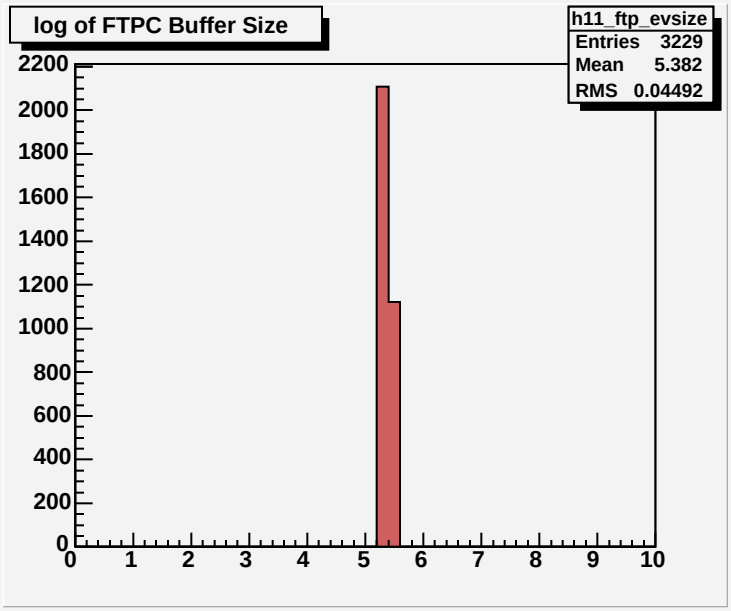

ZDC Unattenuated West (Channel 0)
h93_zdc_unatt_west
Entries 2
Mean 30.5
RMS 7.5
1
0.8
0.6
0.4
0.2
0
0
50
100
150
200
250
300

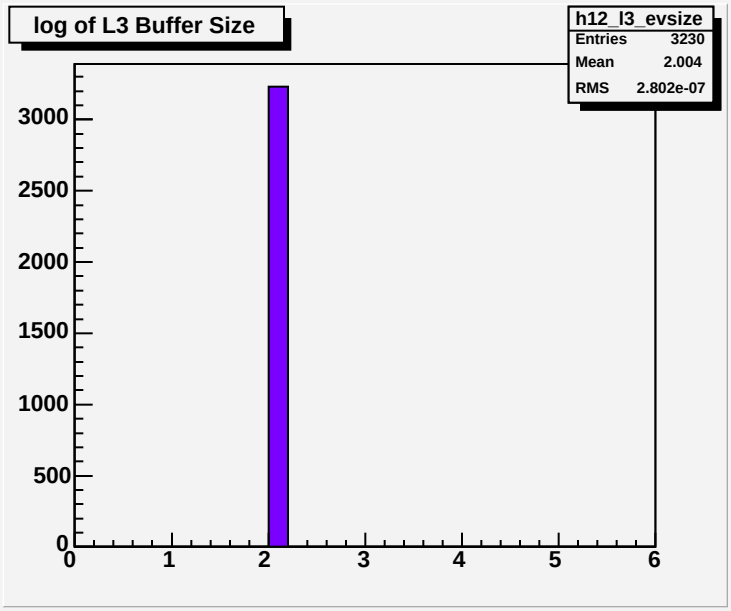

ZDC Unattenuated East (Channel 4)
h92_zdc_unatt_east
Entries 2
Mean 26
RMS 12
1
0.8
0.6
0.4
0.2
0
0
50
100
150
200
250

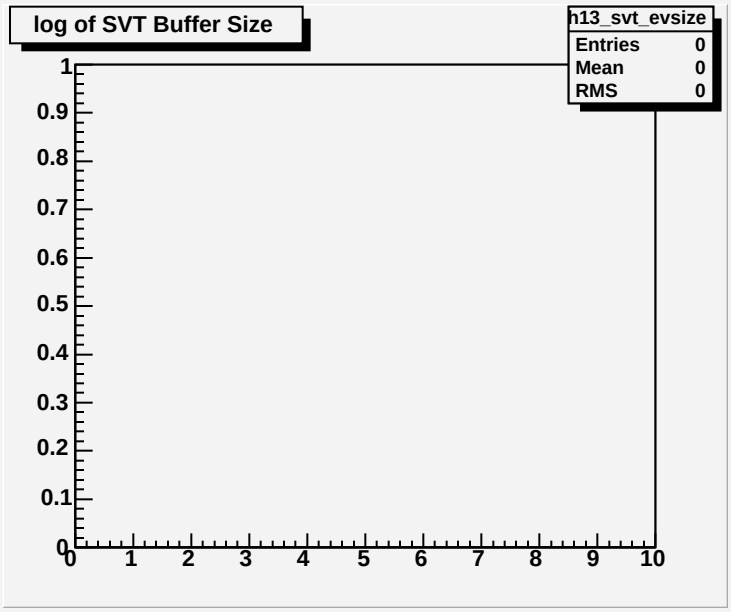

ZDC Analog-0.6(East+West)
h117_zdc_analog_minus_sum
Entries 2
Mean 1.5
RMS 0.1
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-100
-80
-60
-40
-20
0
20
40
60
80
100

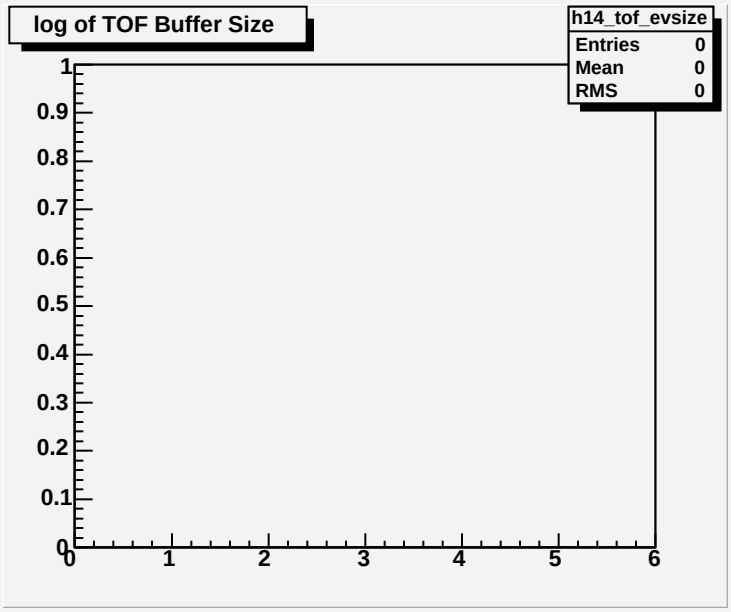

Log of TPC Buffer Size
h2_tpc
Entries 3230
Mean 5.495
RMS 0.2446

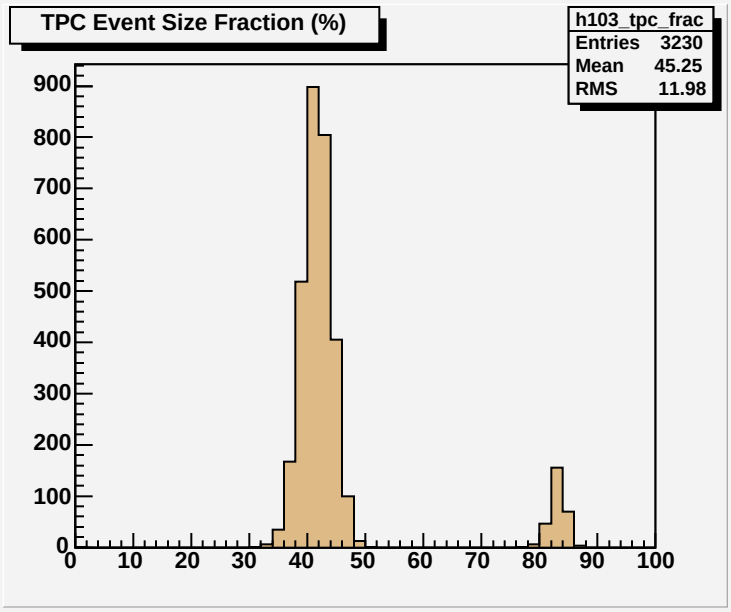

log of BEMC Buffer Size
h10_bemc_evsize
Entries 0
Mean 0
RMS 0

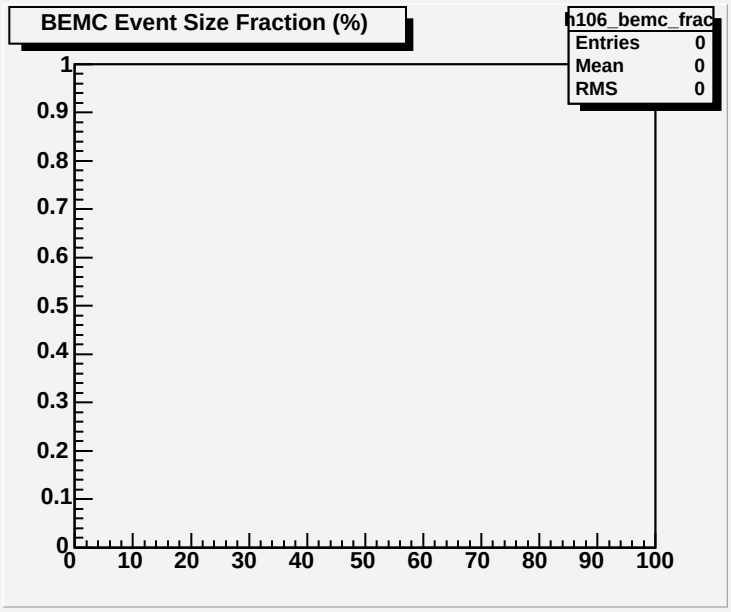

log of FTPC Buffer Size
h11_ftp_evsize
Entries 3229
Mean 5.382
RMS 0.04492

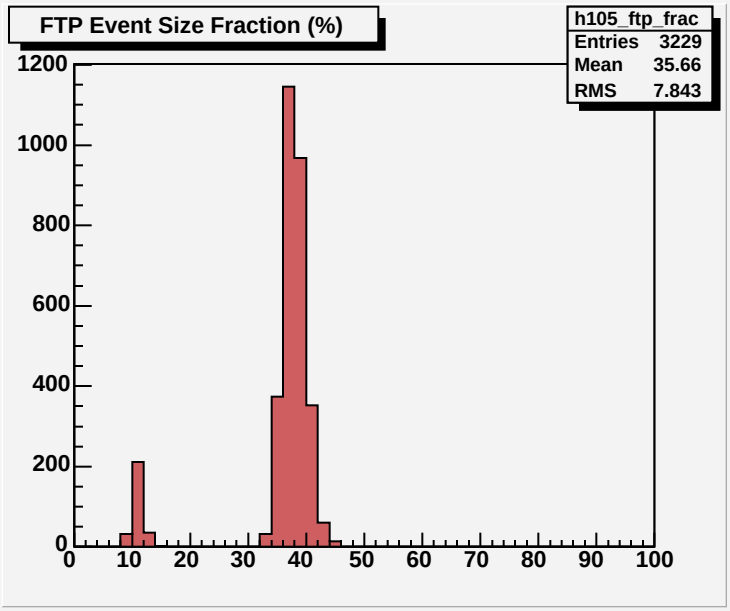

log of L3 Buffer Size
h12_l3_evsize
Entries 3230
Mean 2.004
RMS 2.802e-07

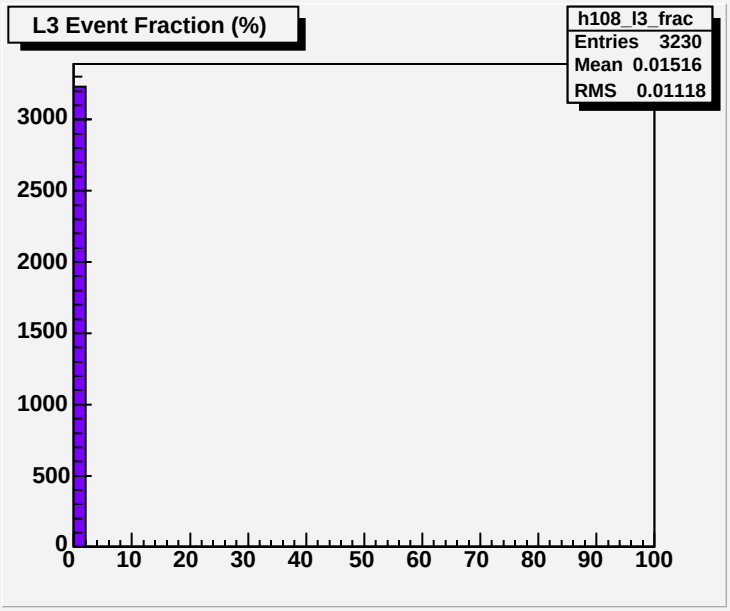

log of SVT Buffer Size
h13_svt_evsize
Entries 0
Mean 0
RMS 0

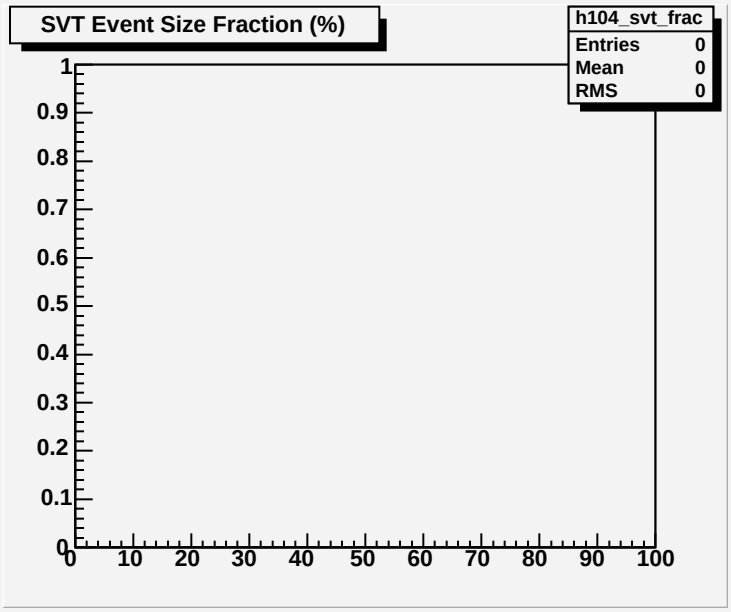

log of TOF Buffer Size
h14_tof_evsize
Entries 0
Mean 0
RMS 0

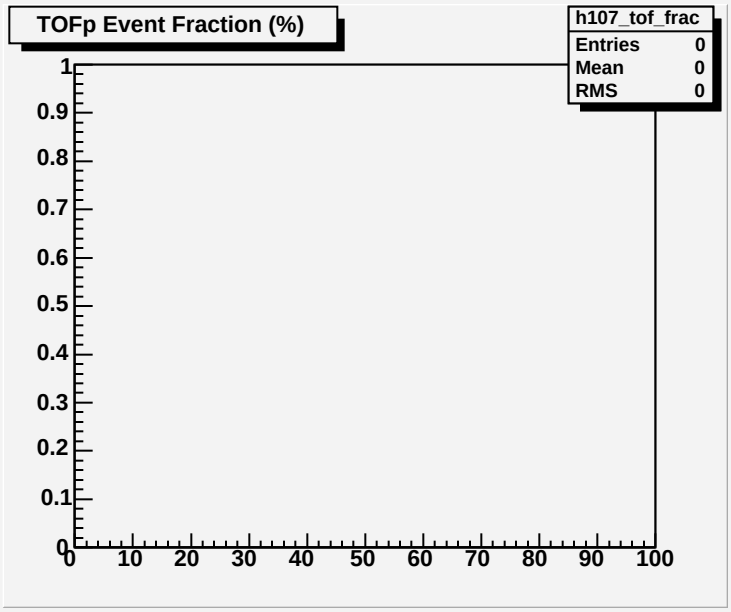

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 3230
Mean 45.25
RMS 11.98

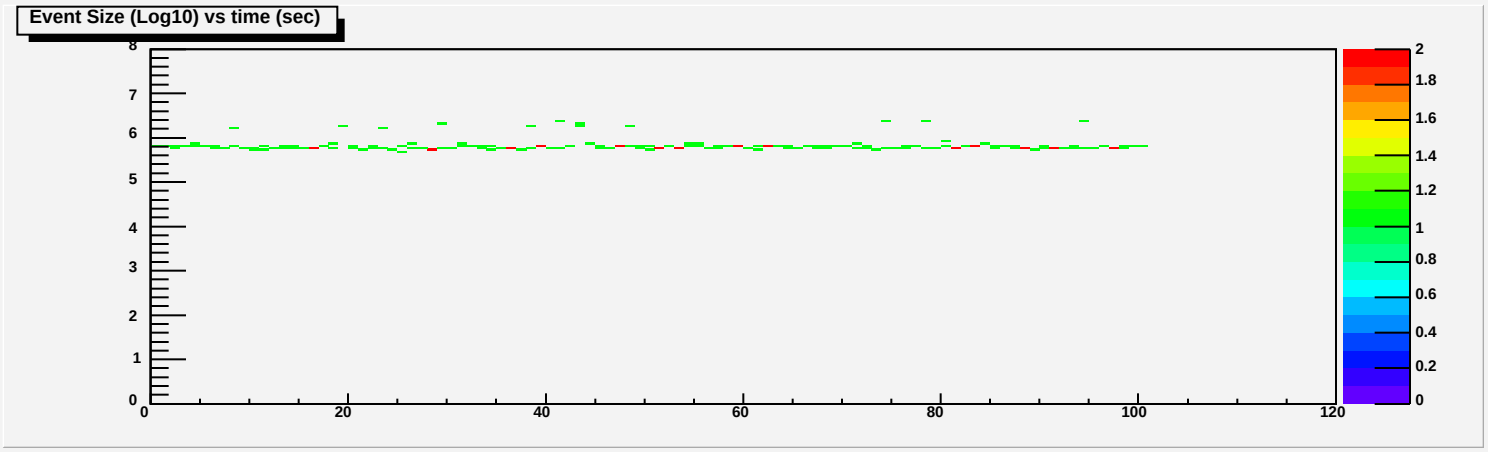

BEMC Event Size Fraction (%)
h106_bemc_frac
Entries 0
Mean 0
RMS 0

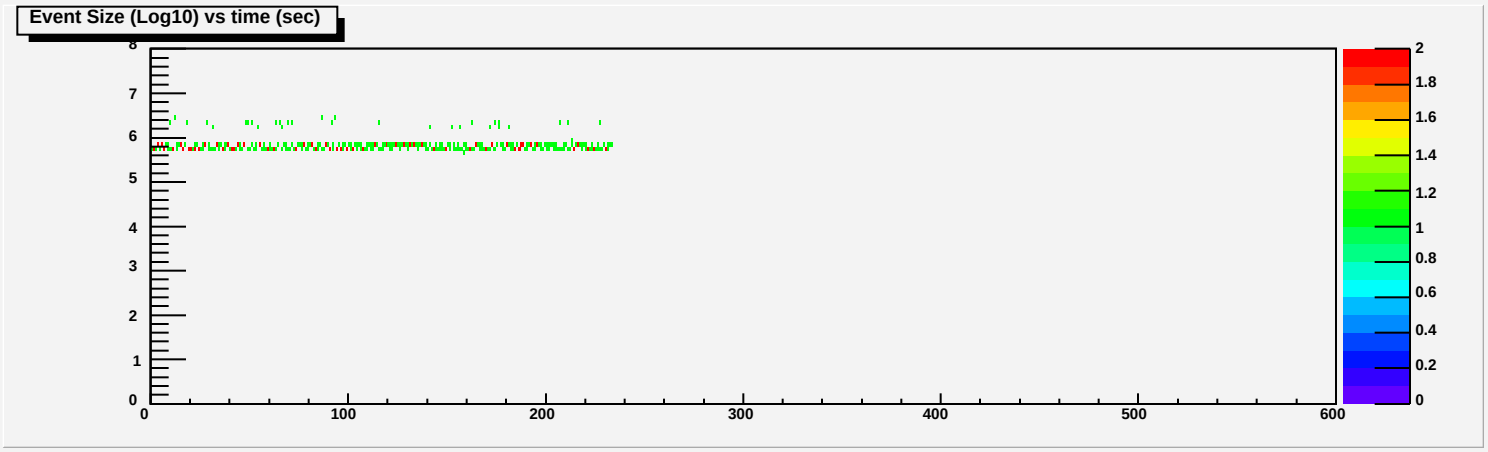

FTP Event Size Fraction (%)
h105_ftp_frac
Entries 3229
Mean 35.66
RMS 7.843

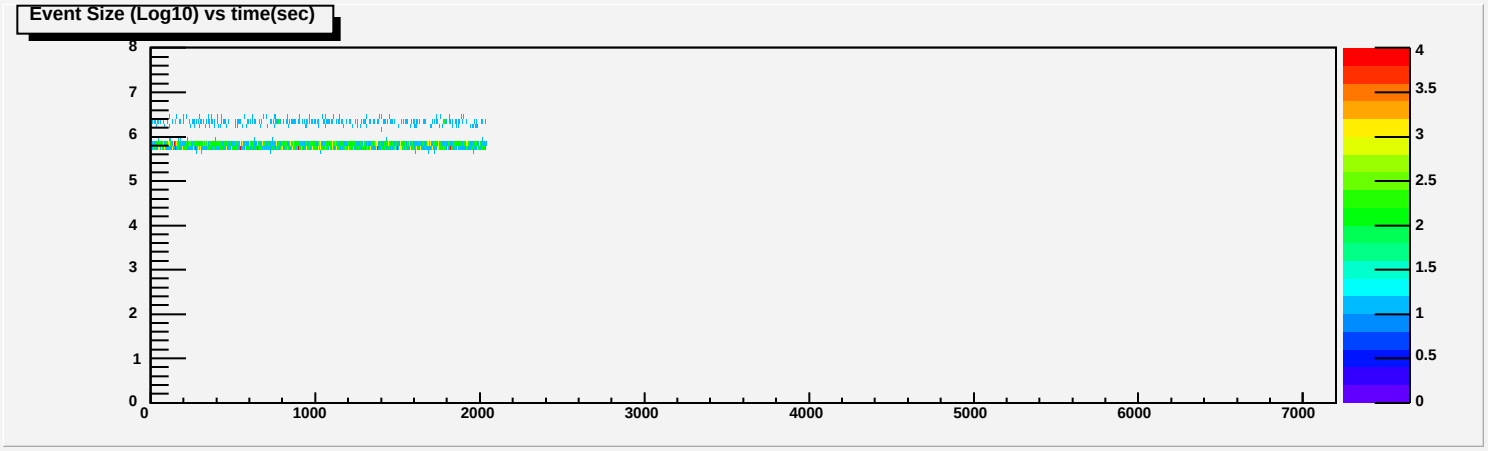

L3 Event Fraction (%)
h108_l3_frac
Entries 3230
Mean 0.01516
RMS 0.01118

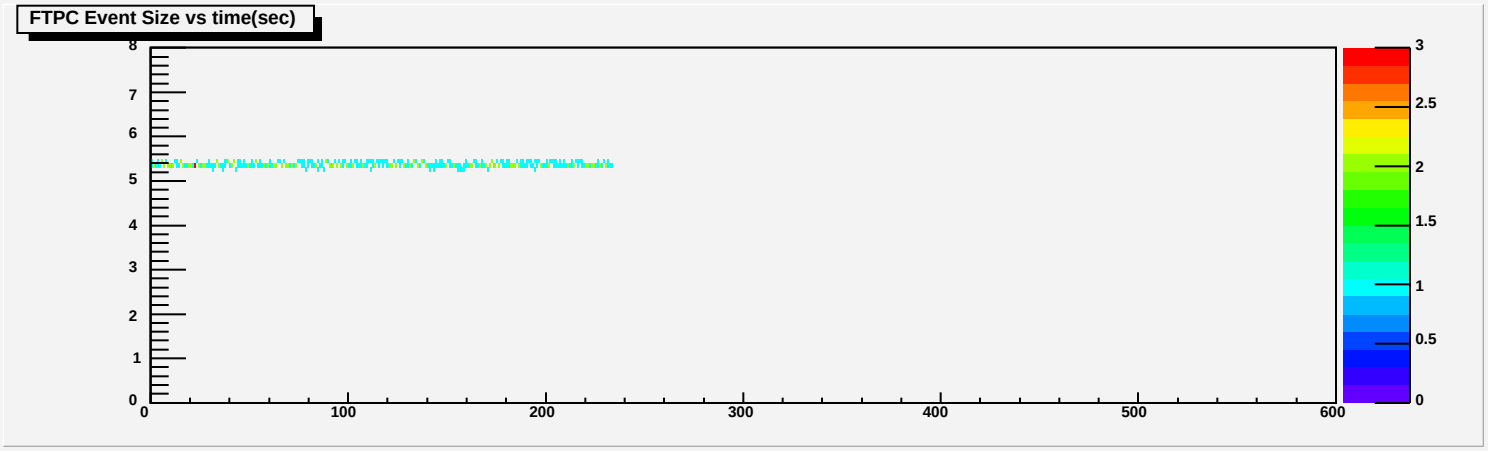

SVT Event Size Fraction (%)
h104_svt_frac
Entries 0
Mean 0
RMS 0

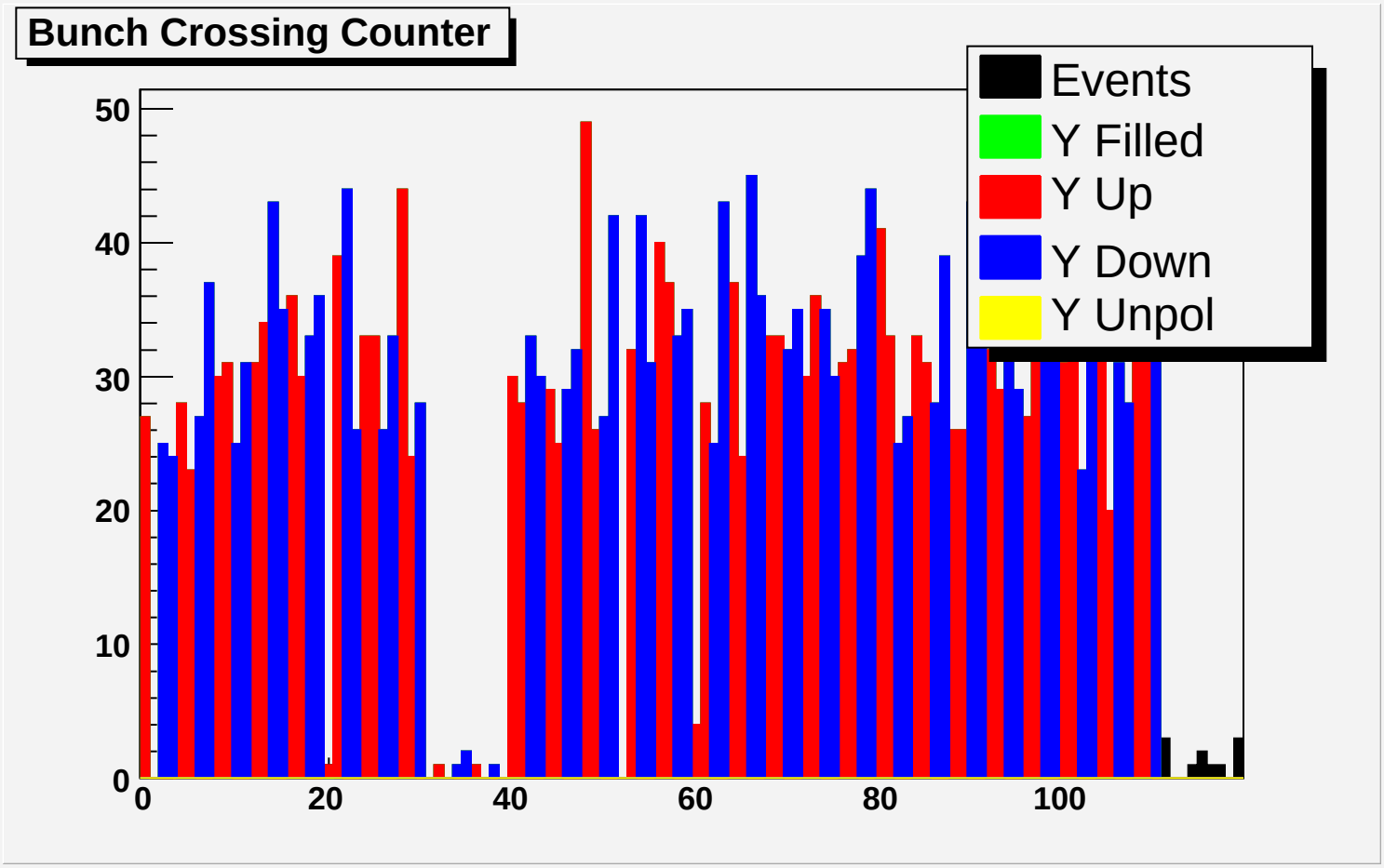

TOFp Event Fraction (%)
h107_tof_frac
Entries 0
Mean 0
RMS 0

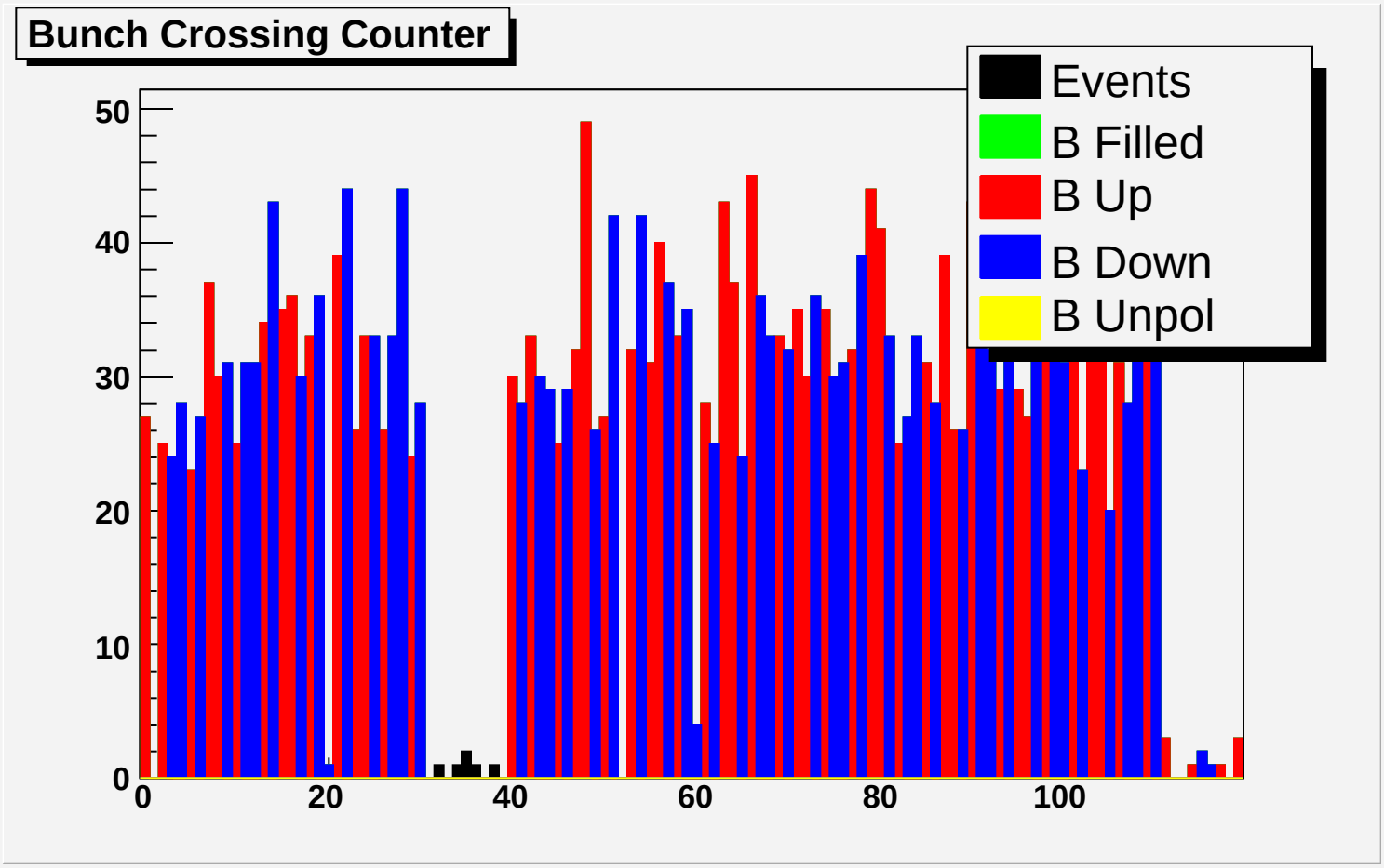

Event Size (Log10) vs time (sec)

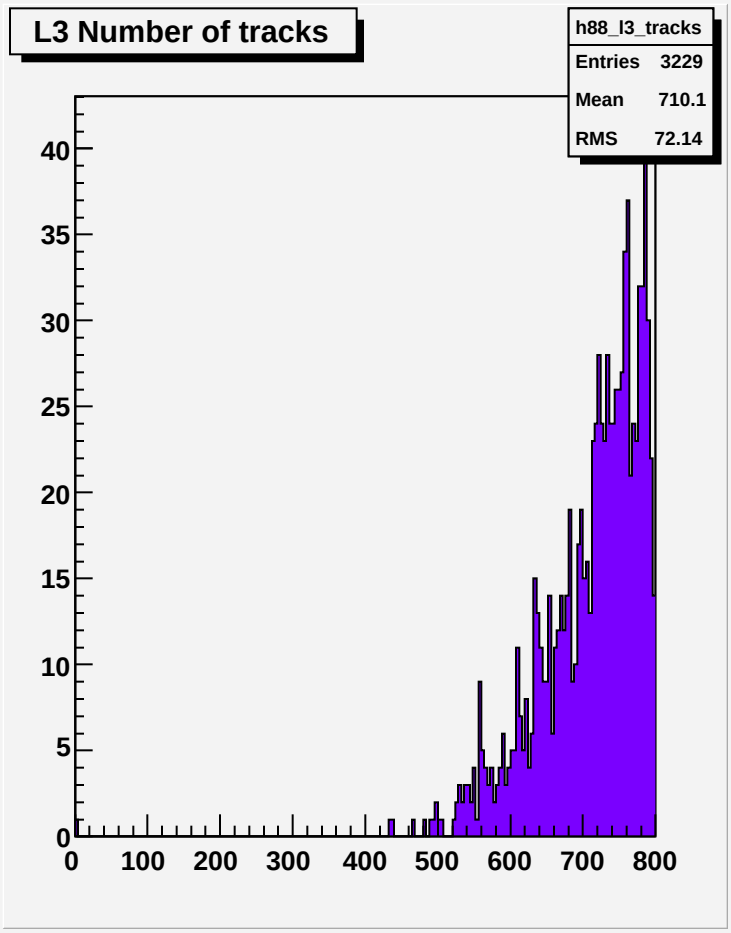

Event Size (Log10) vs time (sec)

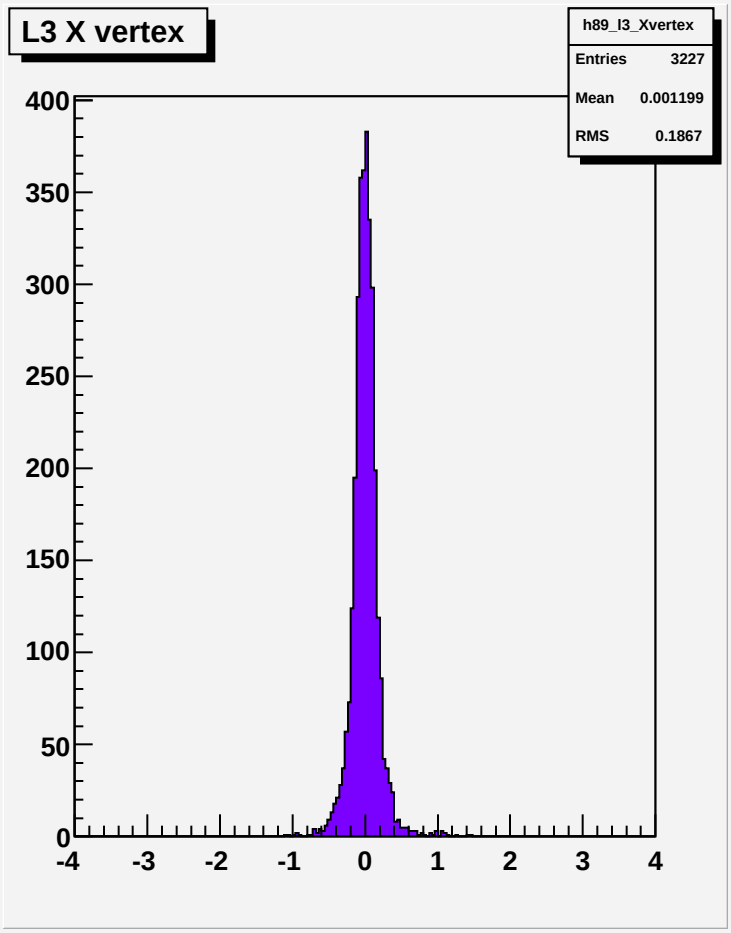

Event Size (Log10) vs time(sec)

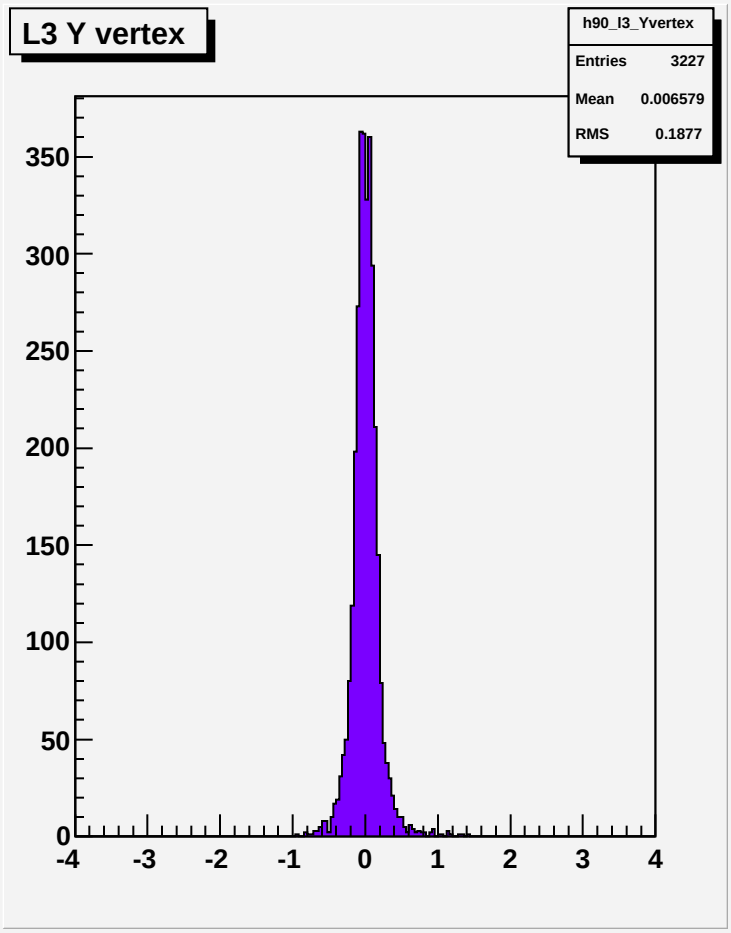

FTPC Event Size vs time(sec)

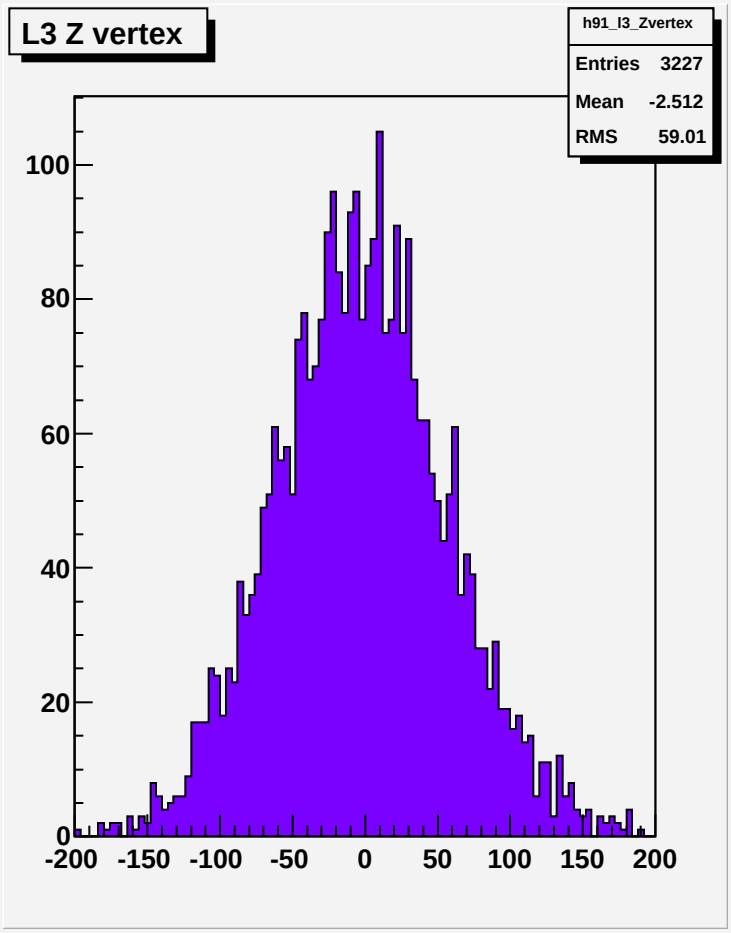

Bunch Crossing Counter
Events
Y Filled
Y Up
Y Down
Y Unpol
0
10
20
30
40
50
0
20
40
60
80
100

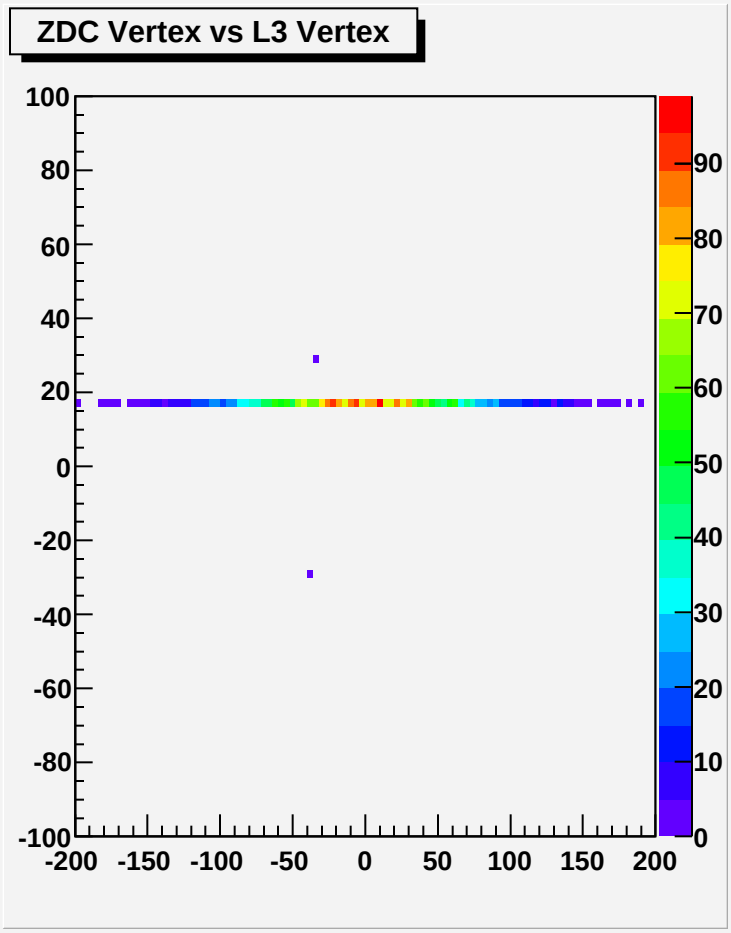

Bunch Crossing Counter
Events
B Filled
B Up
B Down
B Unpol
0
10
20
30
40
50
0
20
40
60
80
100

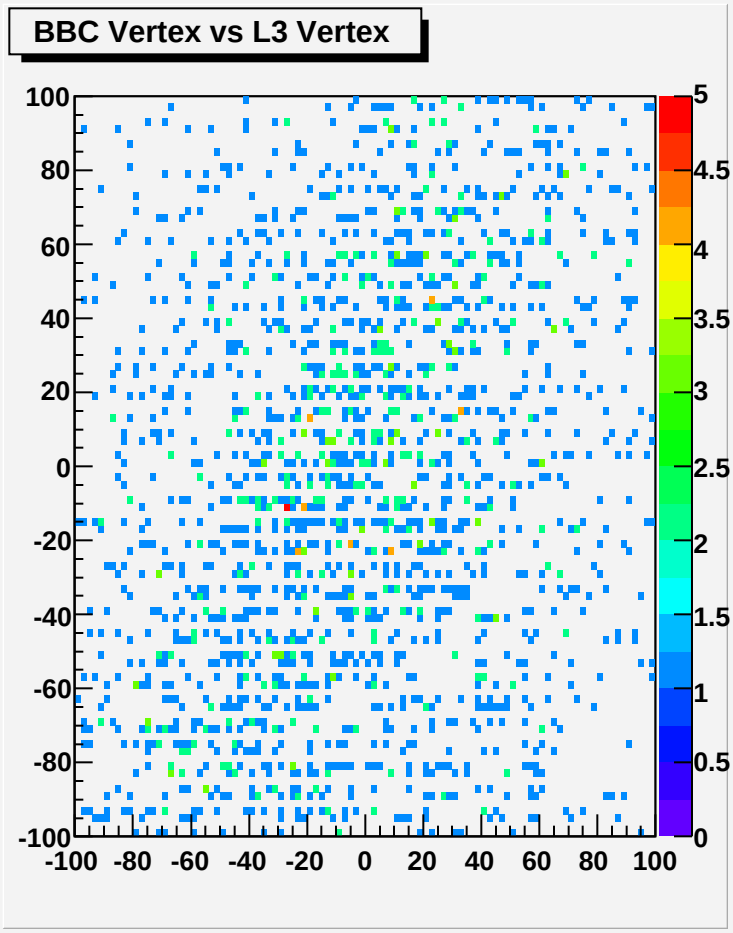

L3 Number of tracks
h88_l3_tracks
Entries 3229
Mean 710.1
RMS 72.14
0
5
10
15
20
25
30
35
40
0
100
200
300
400
500
600
700
800

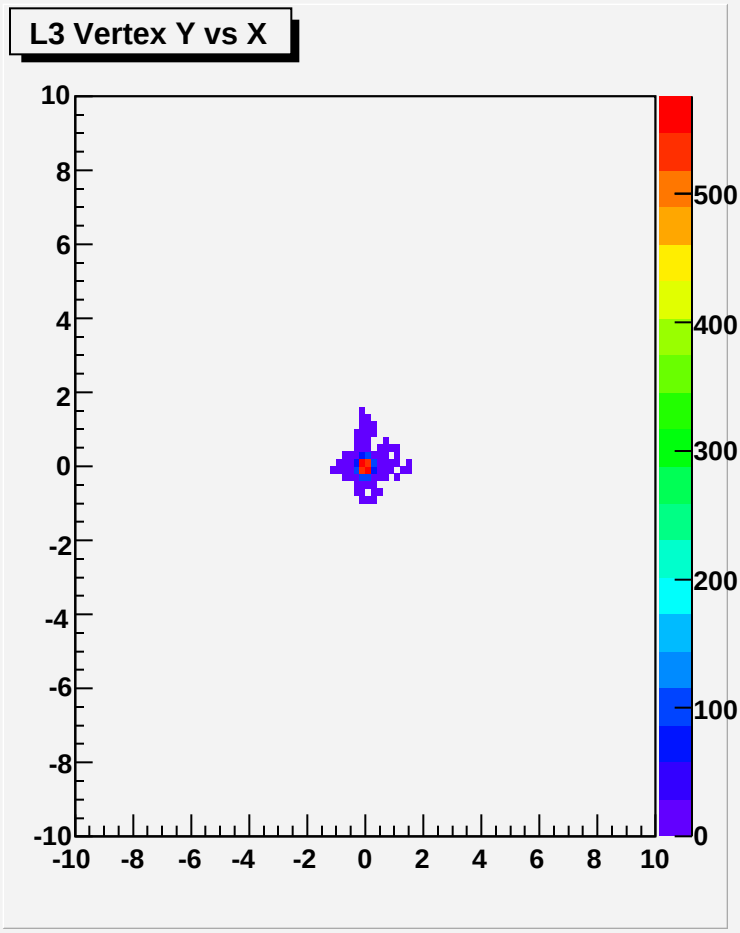

L3 X vertex
h89_l3_Xvertex
Entries 3227
Mean 0.001199
RMS 0.1867
0
50
100
150
200
250
300
350
400
-4
-3
-2
-1
0
1
2
3
4

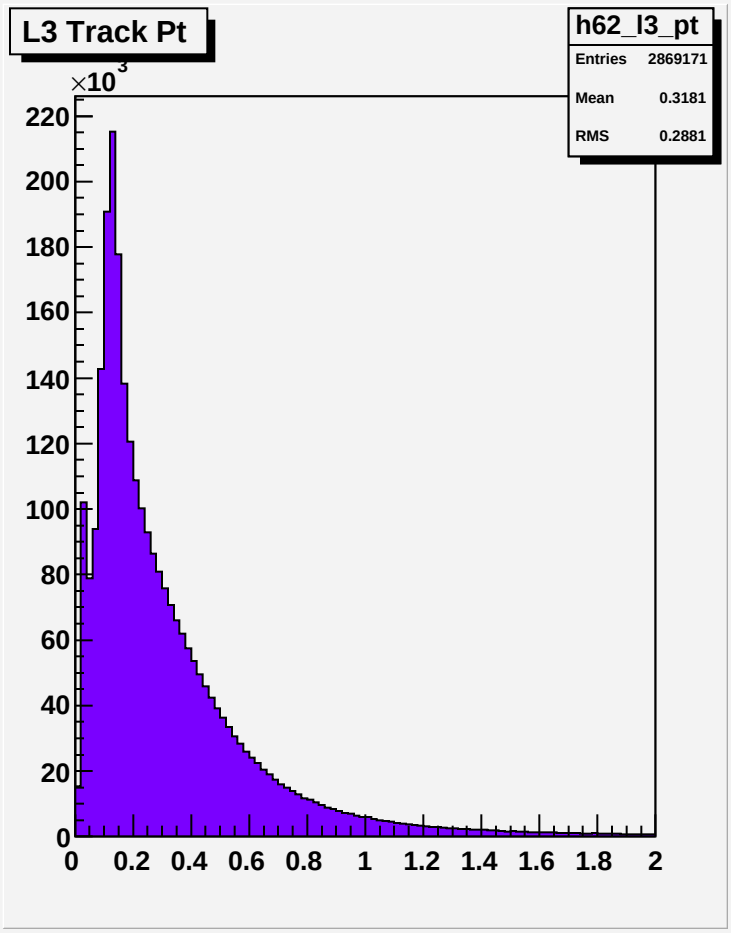

L3 Y vertex
h90_l3_Yvertex
Entries 3227
Mean 0.006579
RMS 0.1877
0
50
100
150
200
250
300
350
-4
-3
-2
-1
0
1
2
3
4

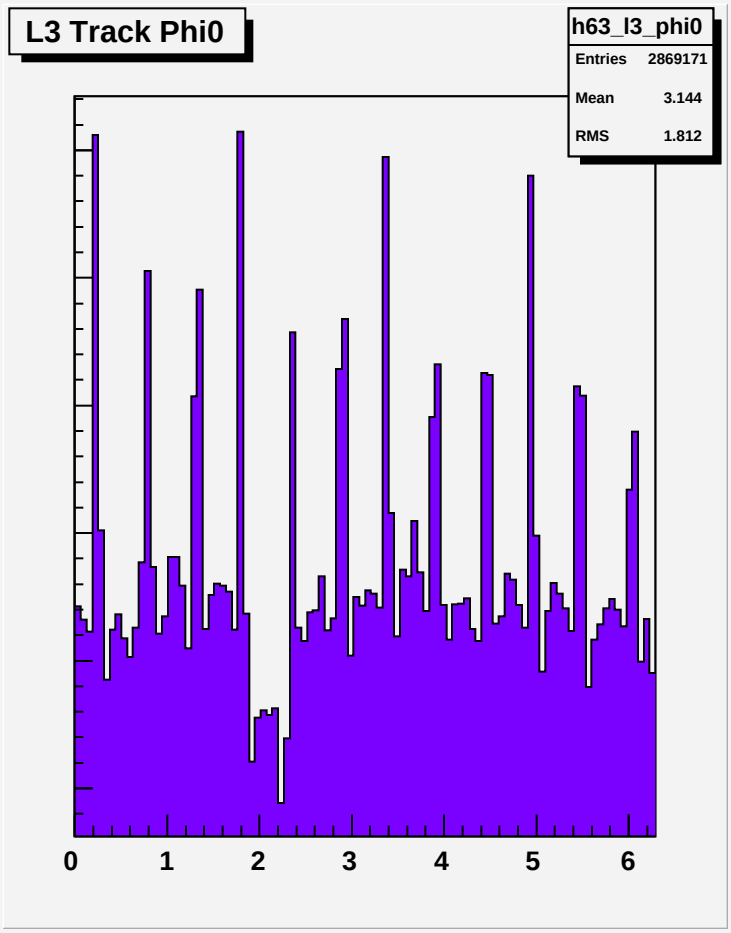

L3 Z vertex
h91_l3_Zvertex
Entries 3227
Mean -2.512
RMS 59.01
0
20
40
60
80
100
-200
-150
-100
-50
0
50
100
150
200

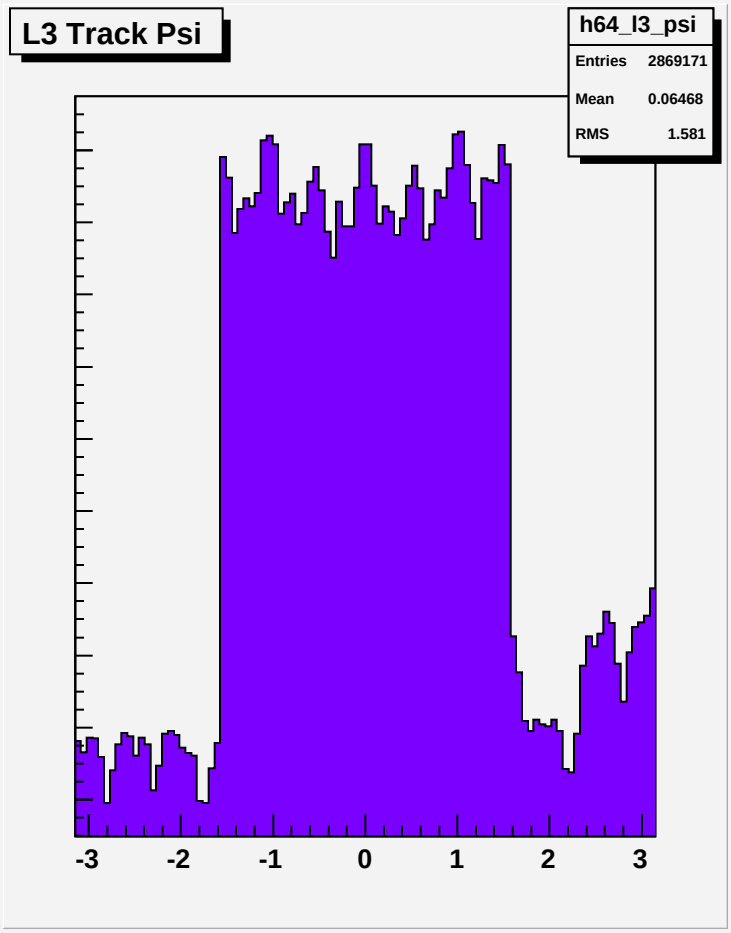

ZDC Vertex vs L3 Vertex
100
80
60
40
20
0
-20
-40
-60
-80
-100
-200 -150 -100 -50 0 50 100 150 200
90
80
70
60
50
40
30
20
10
0

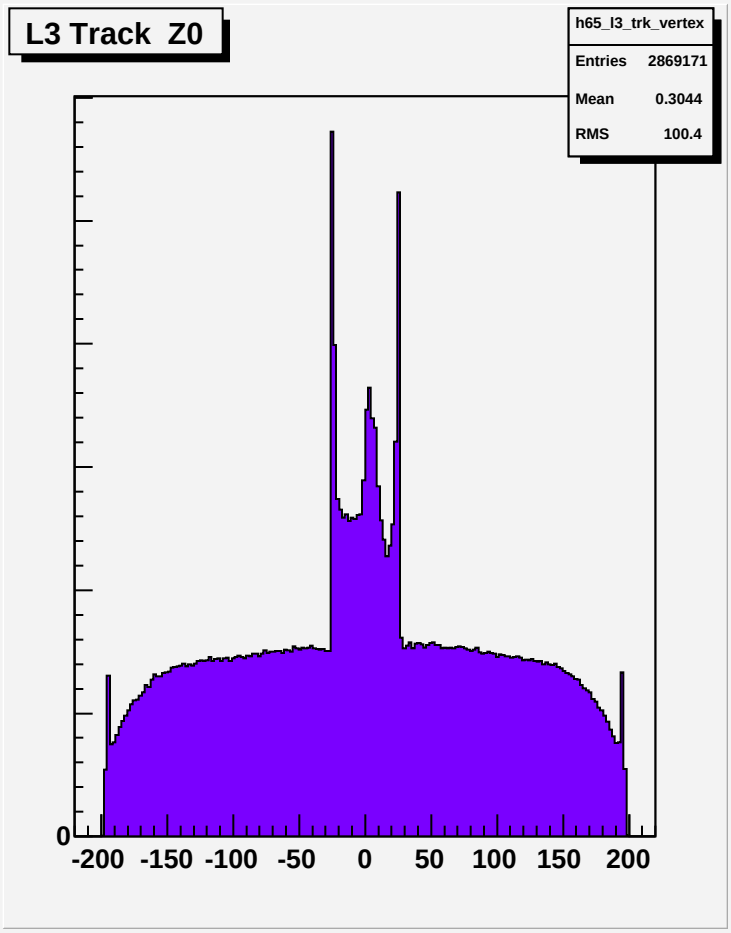

BBC Vertex vs L3 Vertex
100
80
60
40
20
0
-20
-40
-60
-80
-100
-100 -80 -60 -40 -20 0 20 40 60 80 100
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0

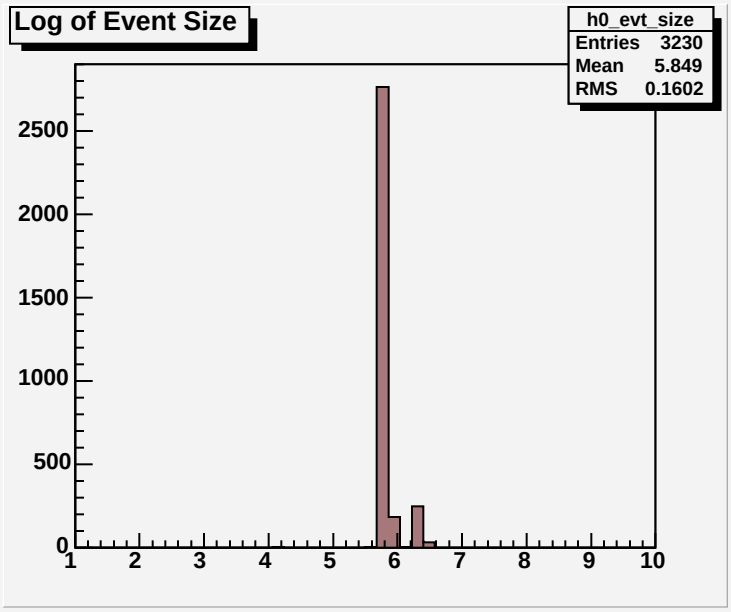

L3 Vertex Y vs X
10
8
6
4
2
0
-2
-4
-6
-8
-10
-10 -8 -6 -4 -2 0 2 4 6 8 10
500
400
300
200
100
0

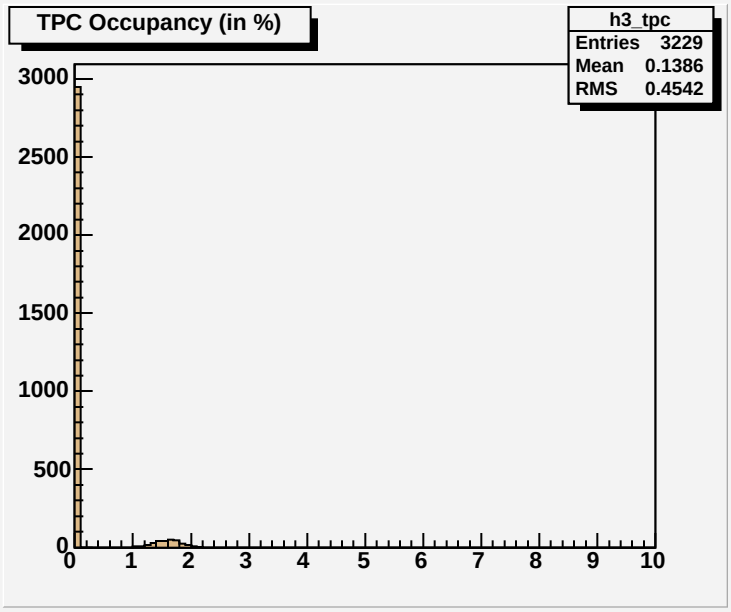

L3 Track Pt
h62_l3_pt
Entries 2869171
Mean 0.3181
RMS 0.2881
×10^3
220
200
180
160
140
120
100
80
60
40
20
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2

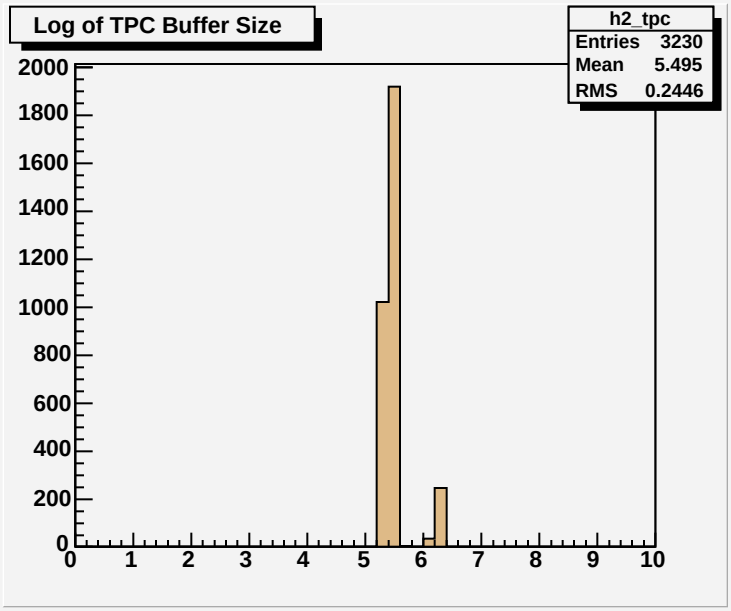

L3 Track Phi0
h63_l3_phi0
Entries 2869171
Mean 3.144
RMS 1.812
0 1 2 3 4 5 6

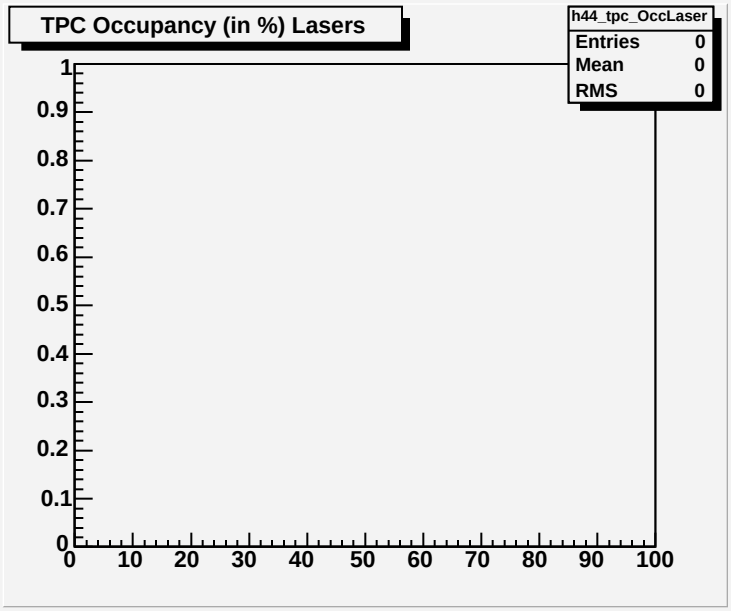

L3 Track Psi
h64_l3_psi
Entries 2869171
Mean 0.06468
RMS 1.581
-3 -2 -1 0 1 2 3

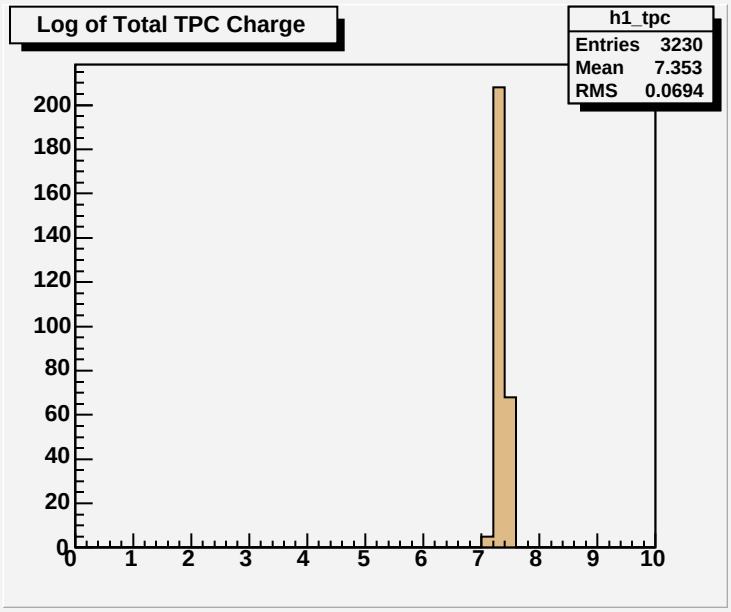

L3 Track Z0
h65_l3_trk_vertex
Entries 2869171
Mean 0.3044
RMS 100.4
0
-200 -150 -100 -50 0 50 100 150 200

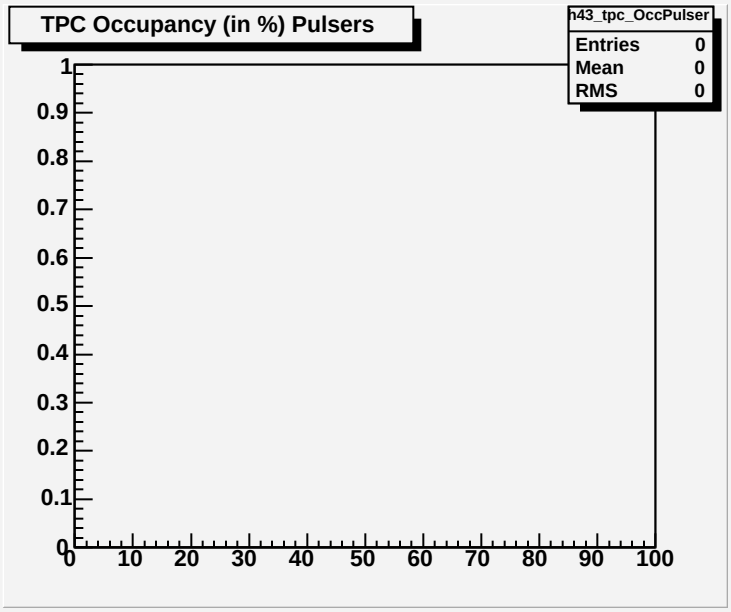

Log of Event Size
h0_evt_size
Entries 3230
Mean 5.849
RMS 0.1602

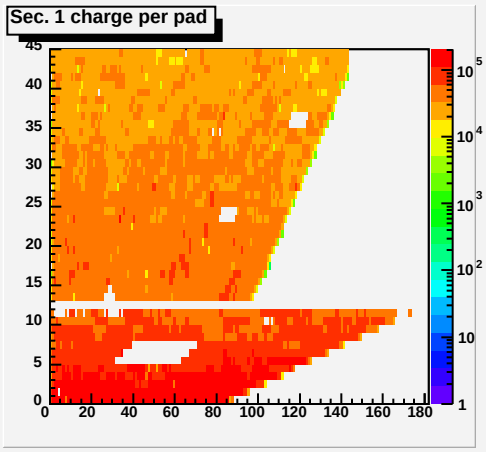

TPC Occupancy (in %)
h3_tpc
Entries 3229
Mean 0.1386
RMS 0.4542

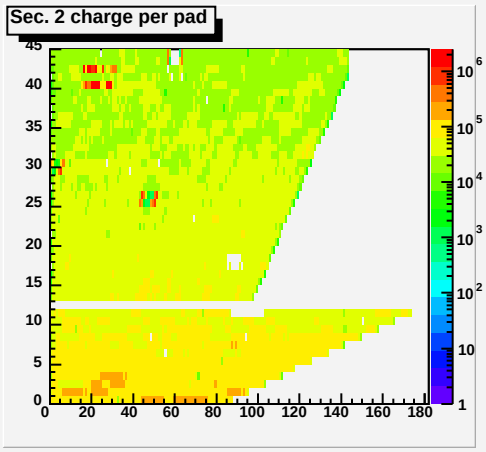

Log of TPC Buffer Size
h2_tpc
Entries 3230
Mean 5.495
RMS 0.2446

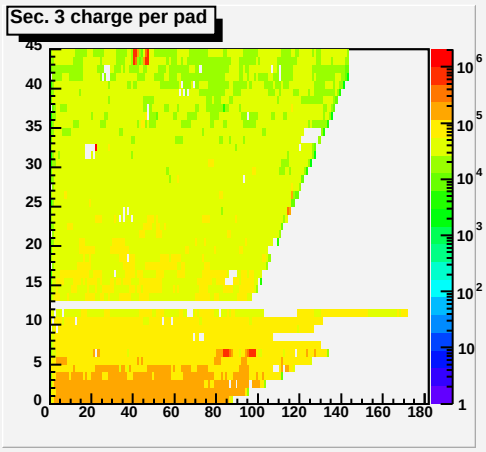

TPC Occupancy (in %) Lasers
h44_tpc_OccLaser
Entries 0
Mean 0
RMS 0

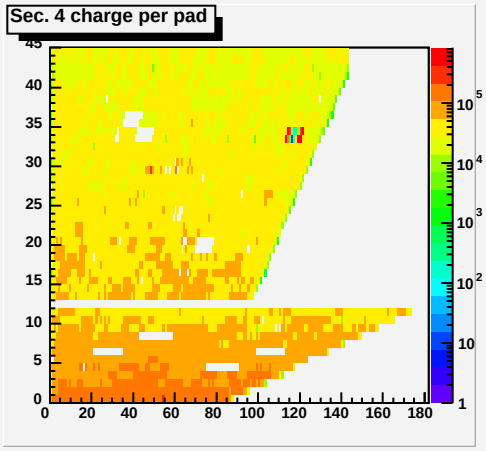

Log of Total TPC Charge
h1_tpc
Entries 3230
Mean 7.353
RMS 0.0694

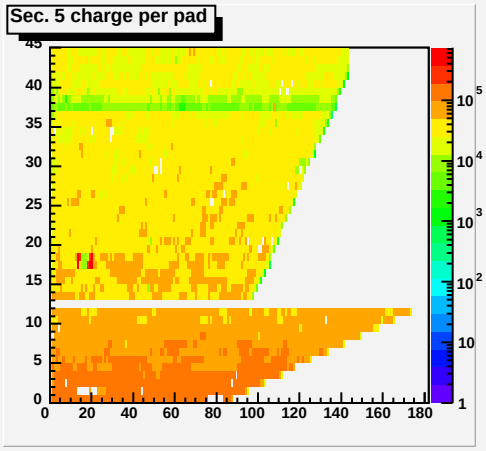

TPC Occupancy (in %) Pulsers
h43_tpc_OccPulser
Entries 0
Mean 0
RMS 0

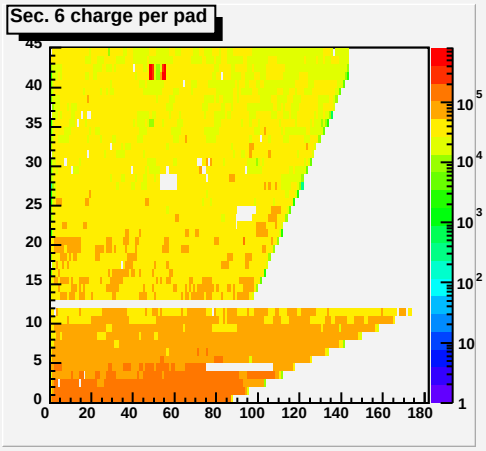

Sec. 1 charge per pad

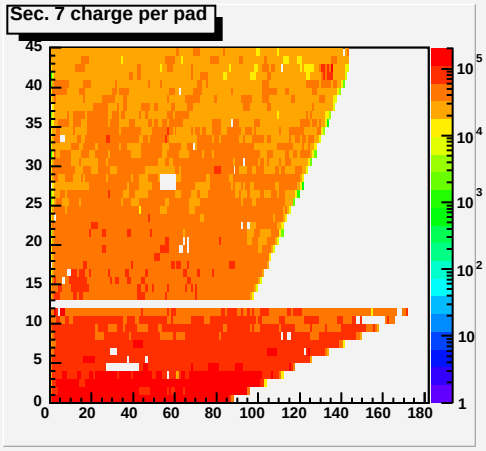

Sec. 2 charge per pad

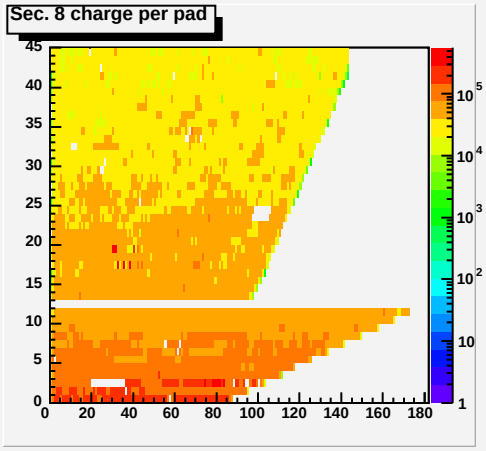

Sec. 3 charge per pad

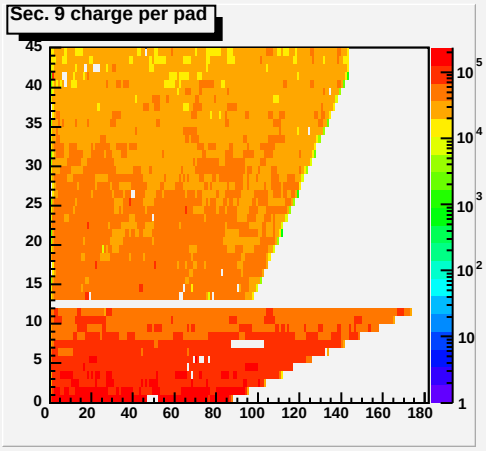

Sec. 4 charge per pad

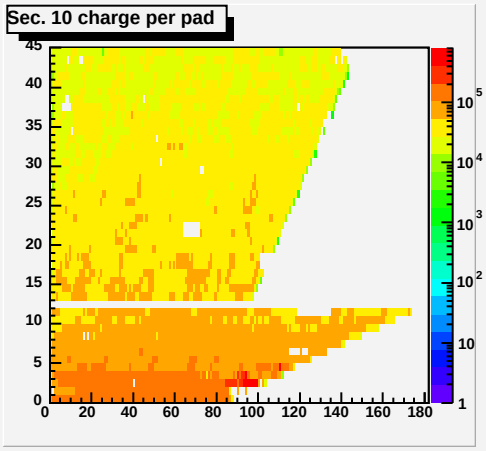

Sec. 5 charge per pad

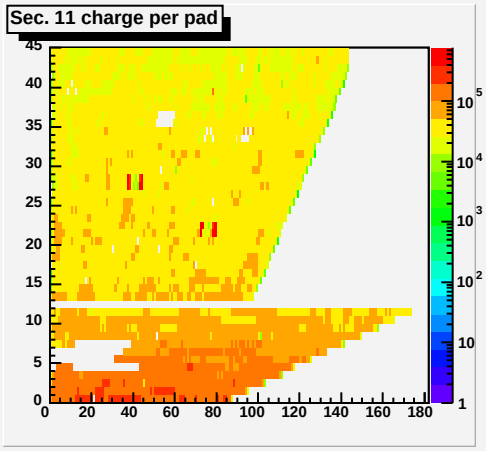

Sec. 6 charge per pad

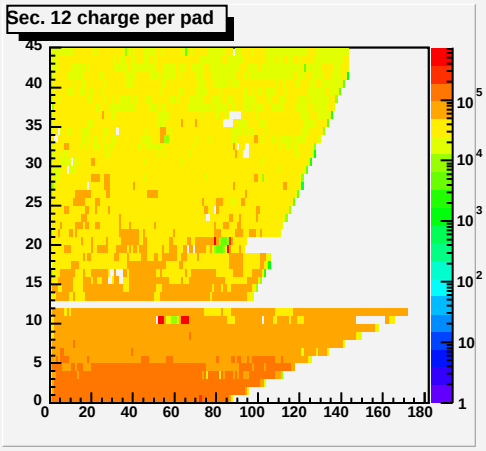

Sec. 7 charge per pad

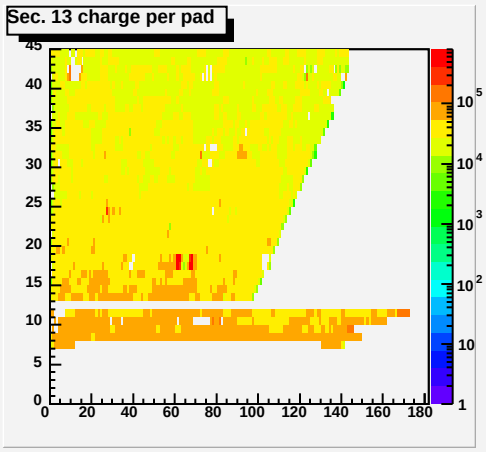

Sec. 8 charge per pad

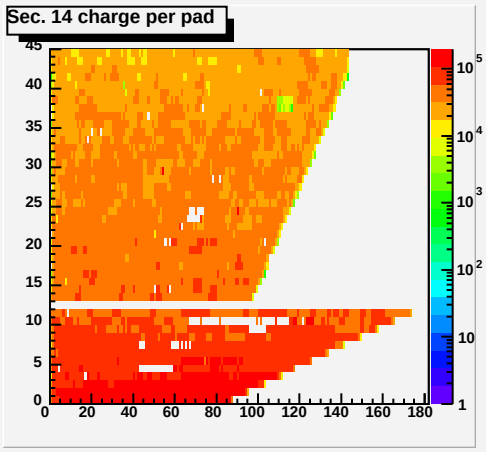

Sec. 9 charge per pad

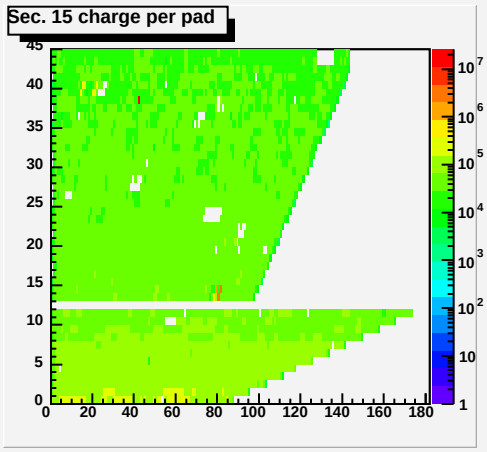

Sec. 10 charge per pad

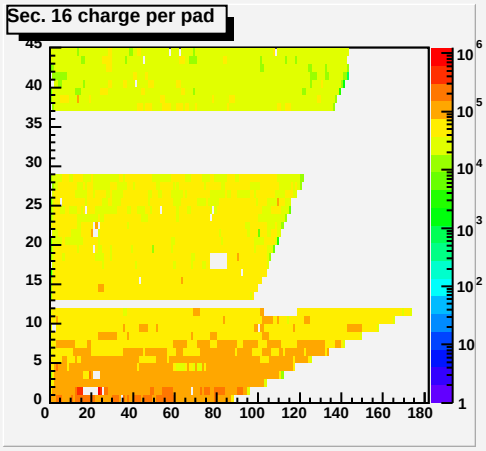

Sec. 11 charge per pad

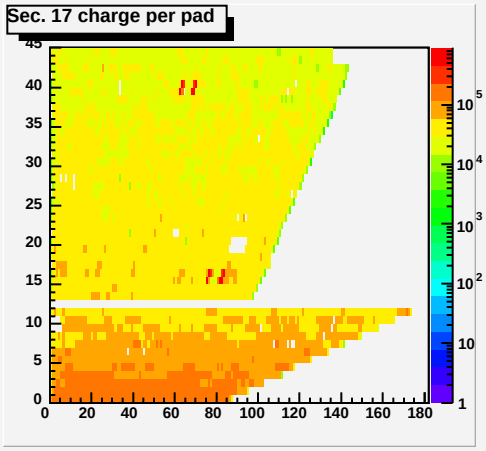

Sec. 12 charge per pad

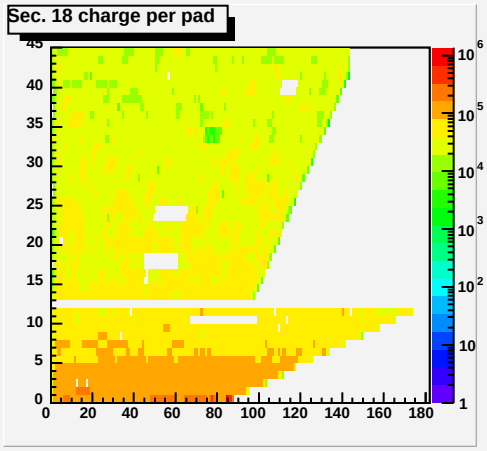

Sec. 13 charge per pad

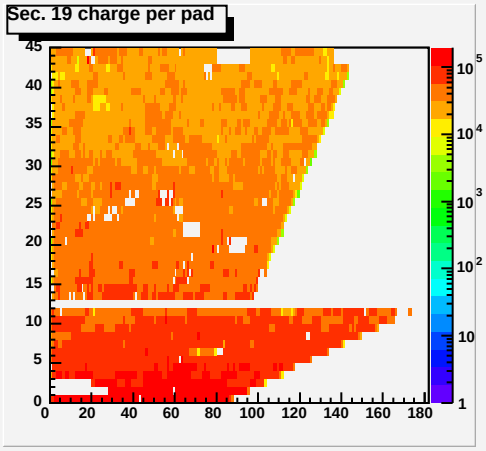

Sec. 14 charge per pad

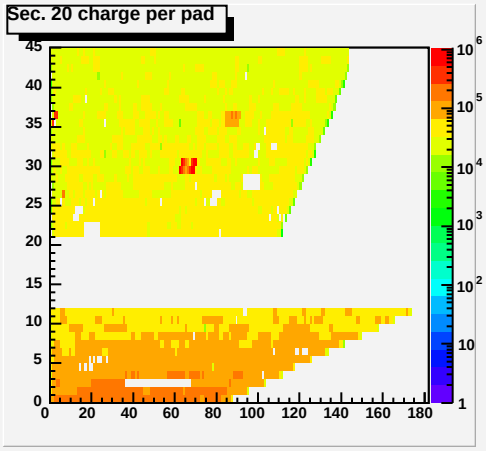

Sec. 15 charge per pad

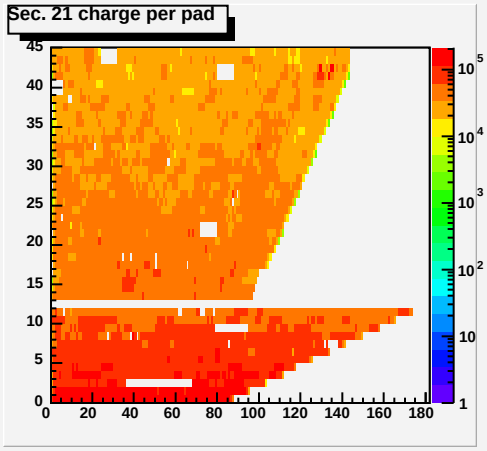

Sec. 16 charge per pad

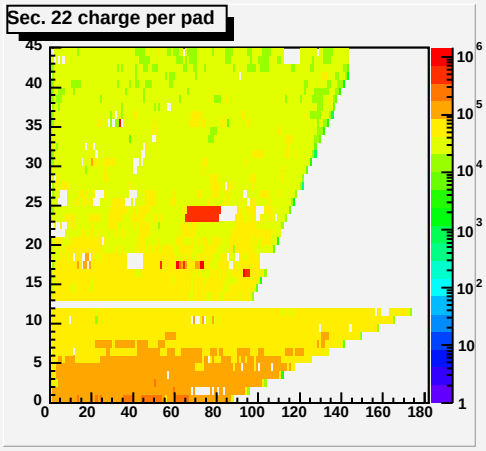

Sec. 17 charge per pad

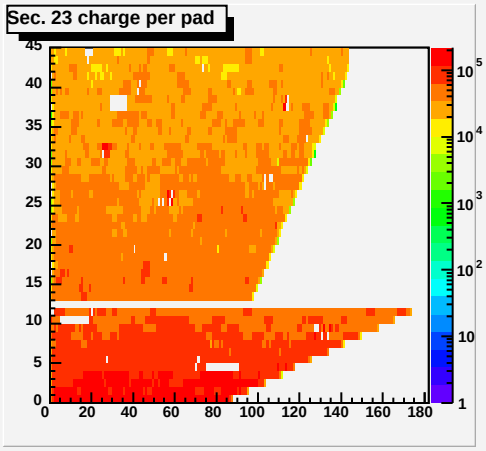

Sec. 18 charge per pad

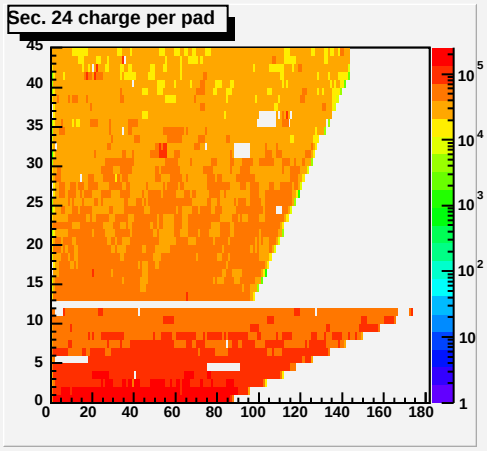

Sec. 19 charge per pad

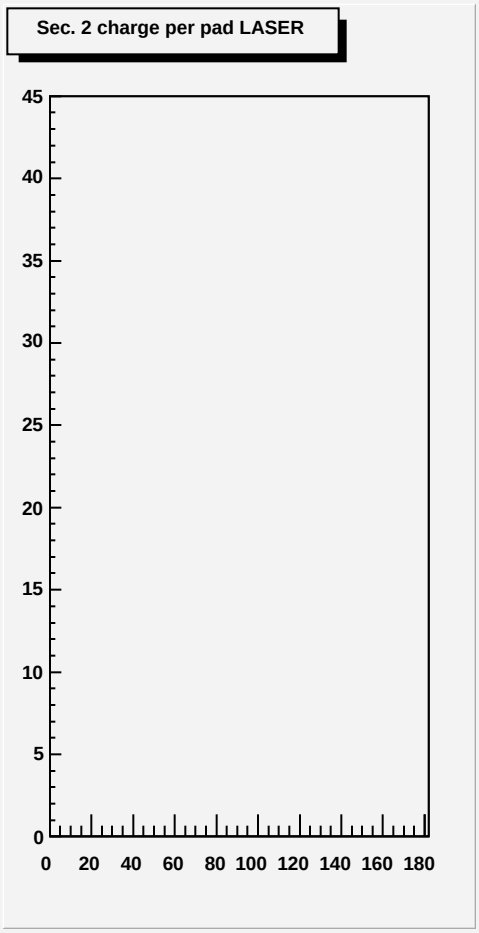

Sec. 20 charge per pad


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
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15
10
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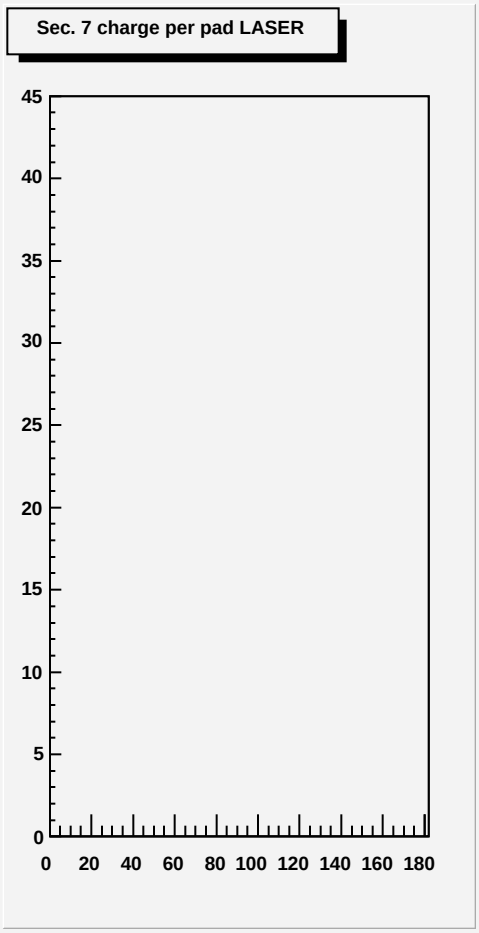
0
0 20 40 60 80 100 120 140 160 180


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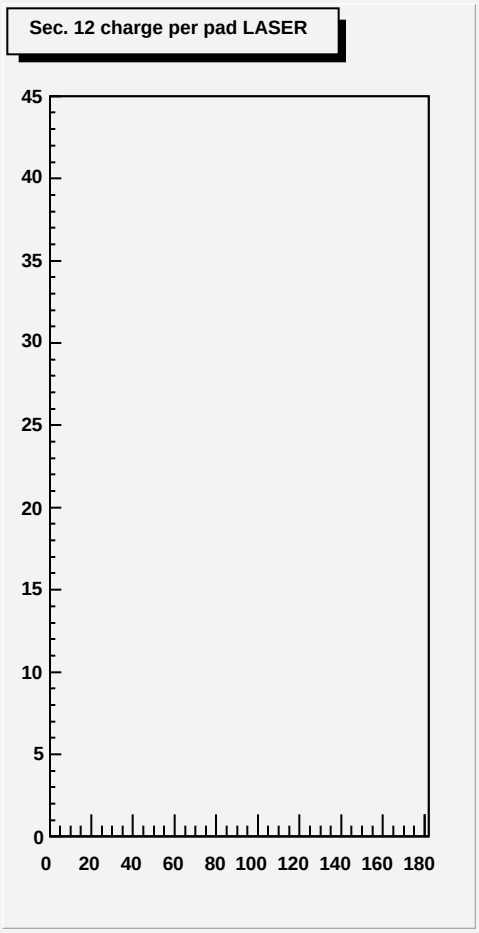
0 20 40 60 80 100 120 140 160 180


Sec. 12 charge per pad LASER
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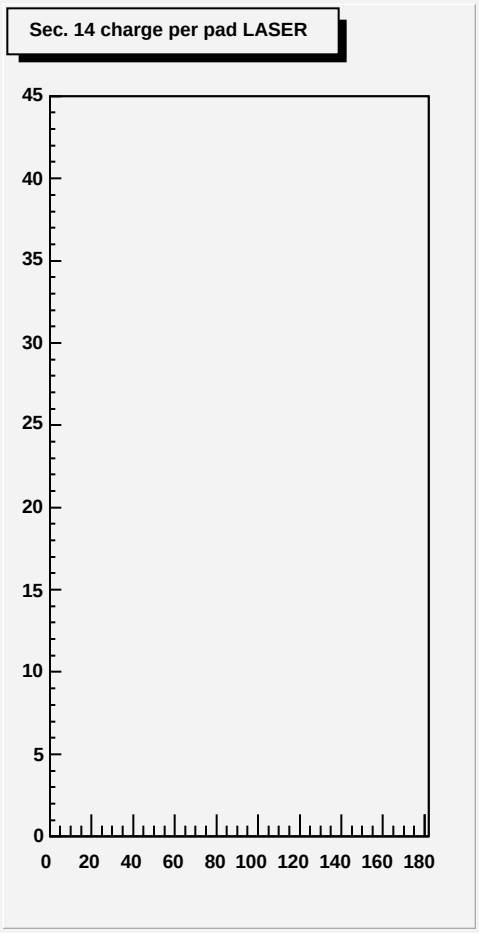
0 20 40 60 80 100 120 140 160 180


Sec. 14 charge per pad LASER
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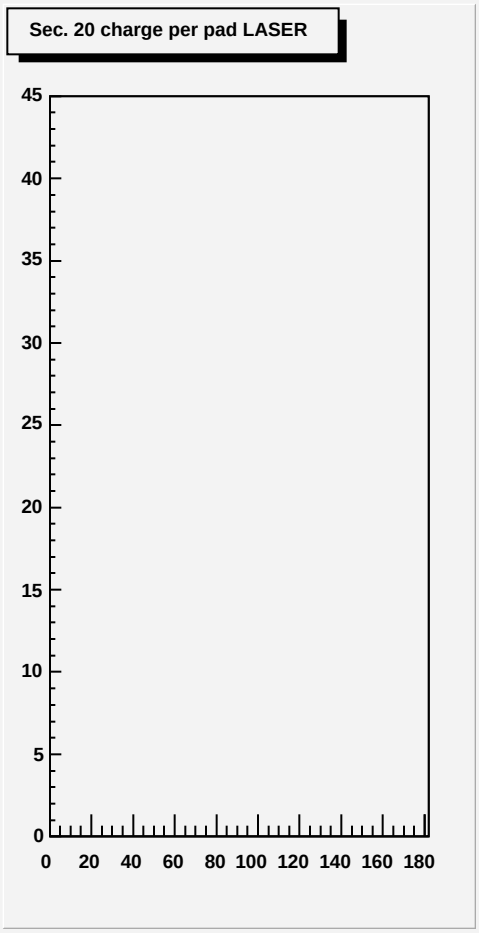
0 20 40 60 80 100 120 140 160 180


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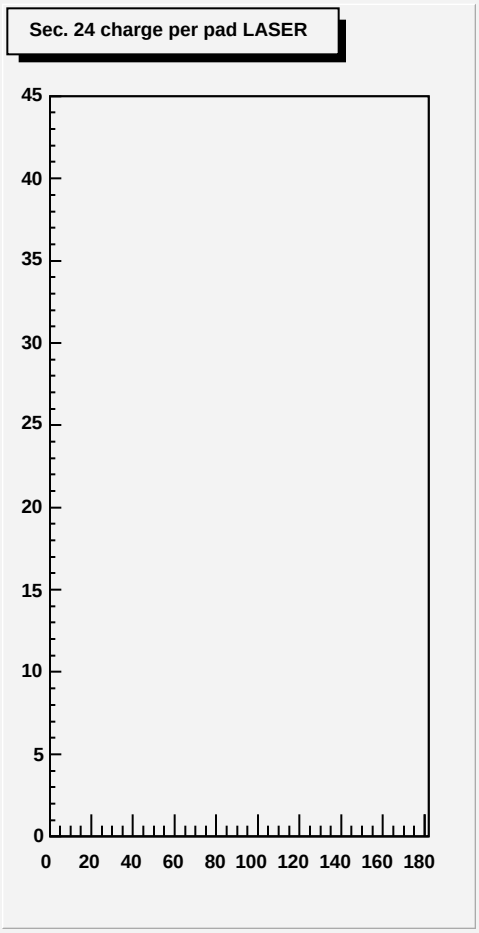
0 20 40 60 80 100 120 140 160 180


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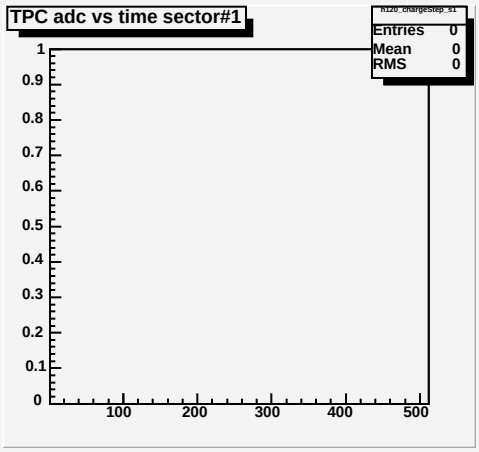
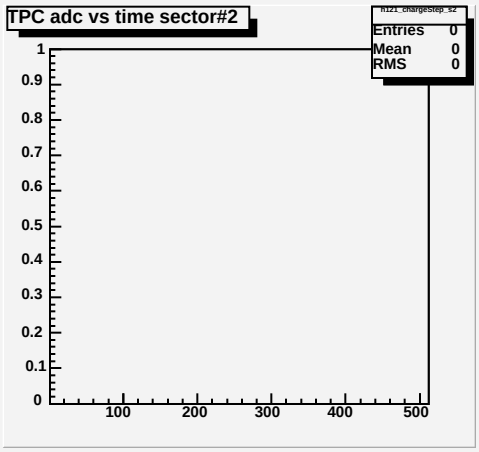
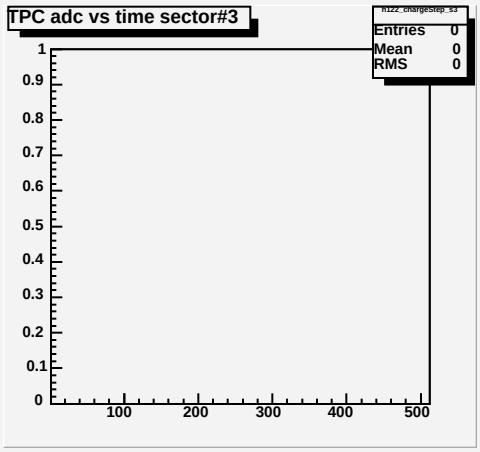
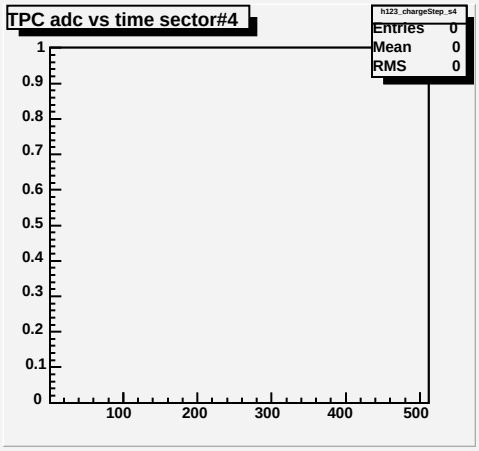
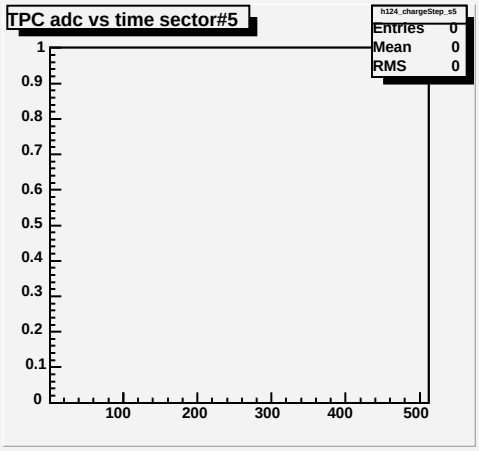
0
0 20 40 60 80 100 120 140 160 180

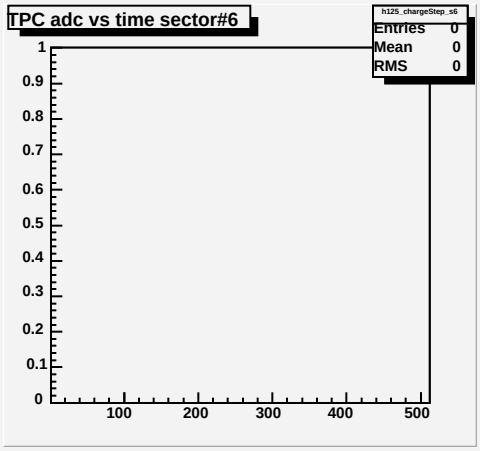

TPC adc vs time sector#1
h120_chargeStep_s1
Entries 0
Mean 0
RMS 0

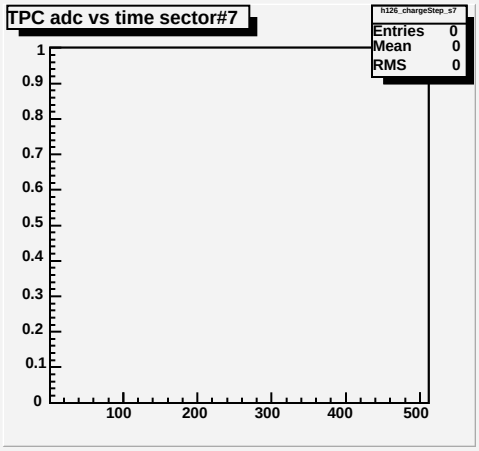

TPC adc vs time sector#2
h121_chargeStep_s2
Entries 0
Mean 0
RMS 0

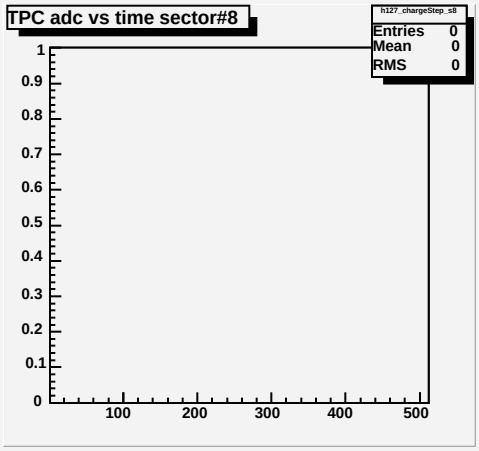

TPC adc vs time sector#3
h122_chargeStep_s3
Entries 0
Mean 0
RMS 0

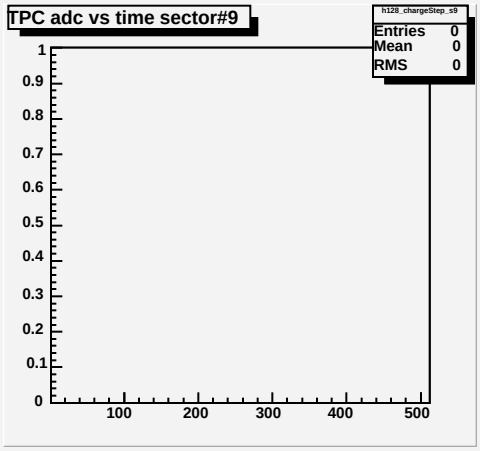

TPC adc vs time sector#4
h123_chargeStep_s4
Entries 0
Mean 0
RMS 0

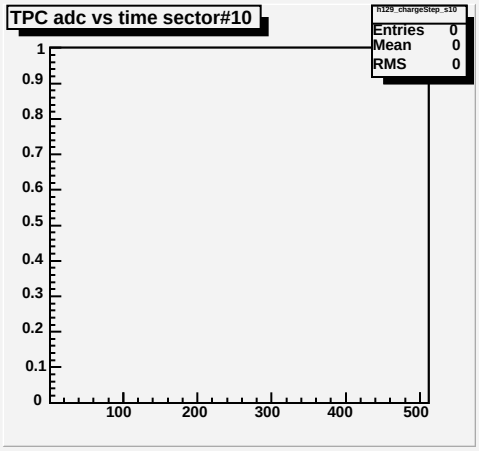

TPC adc vs time sector#5
h124_chargeStep_s5
Entries 0
Mean 0
RMS 0

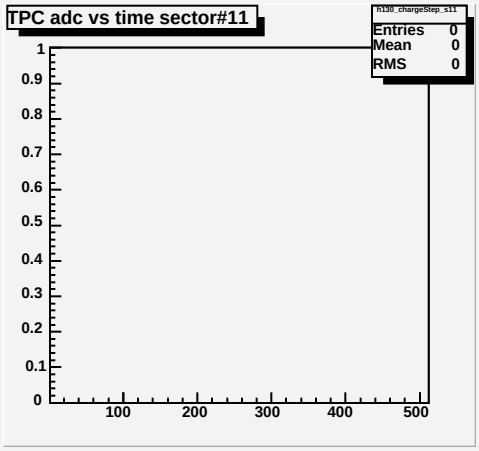

TPC adc vs time sector#6
h125_chargeStep_s6
Entries 0
Mean 0
RMS 0

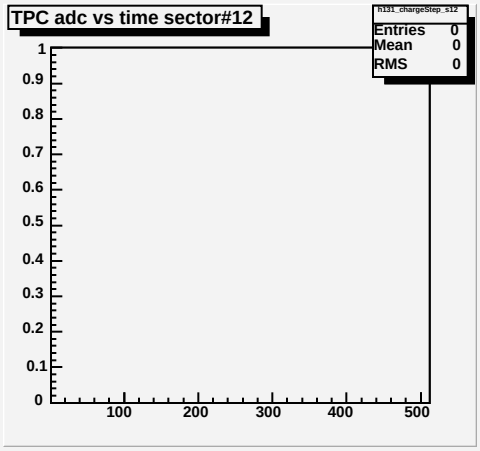

TPC adc vs time sector#7
h126_chargeStep_s7
Entries 0
Mean 0
RMS 0

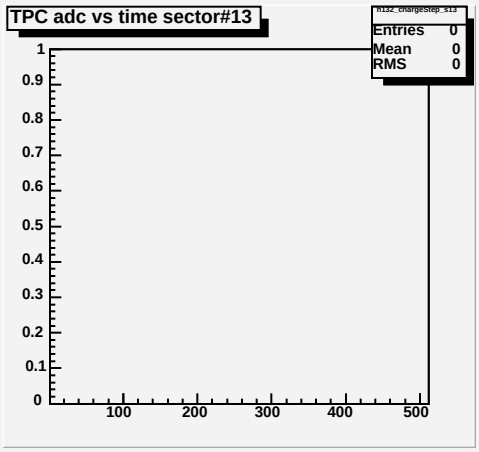

TPC adc vs time sector#8
h127_chargeStep_s8
Entries 0
Mean 0
RMS 0

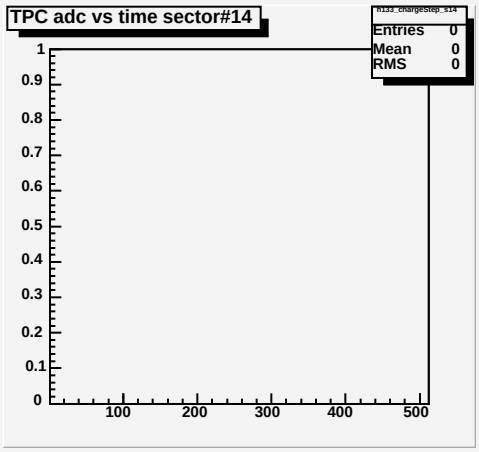

TPC adc vs time sector#9
h128_chargeStep_s9
Entries 0
Mean 0
RMS 0

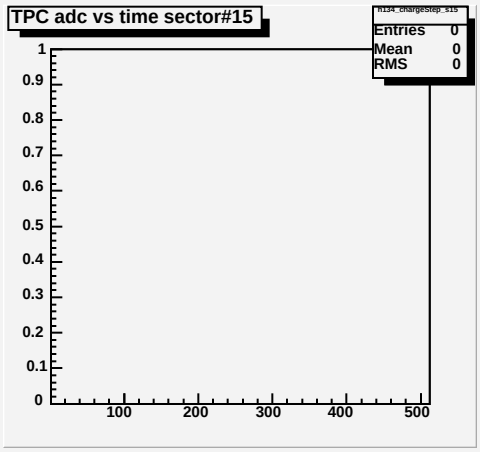

TPC adc vs time sector#10
h129_chargeStep_s10
Entries 0
Mean 0
RMS 0

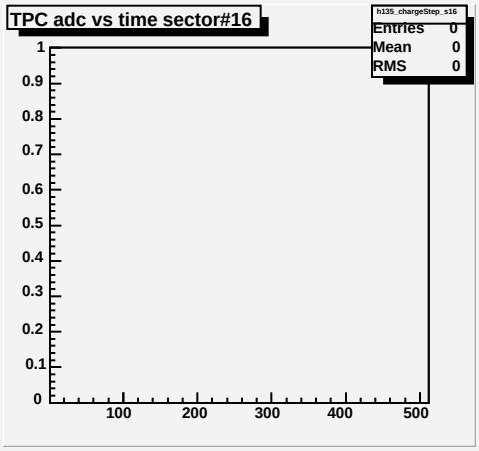

TPC adc vs time sector#11
h130_chargeStep_s11
Entries 0
Mean 0
RMS 0

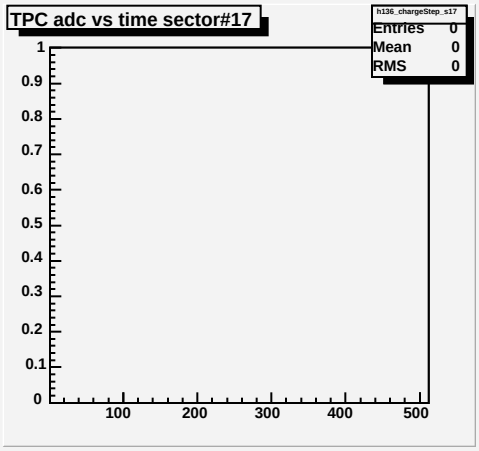

TPC adc vs time sector#12
h131_chargeStep_s12
Entries 0
Mean 0
RMS 0

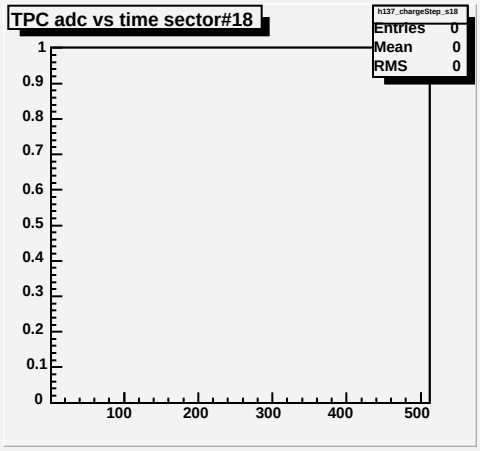

TPC adc vs time sector#13
h132_chargeStep_s13
Entries 0
Mean 0
RMS 0

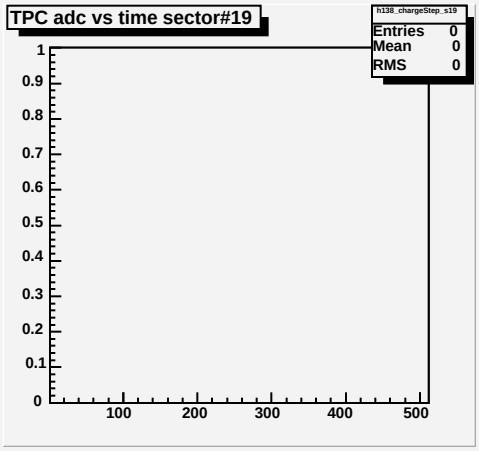

TPC adc vs time sector#14
h133_chargeStep_s14
Entries 0
Mean 0
RMS 0

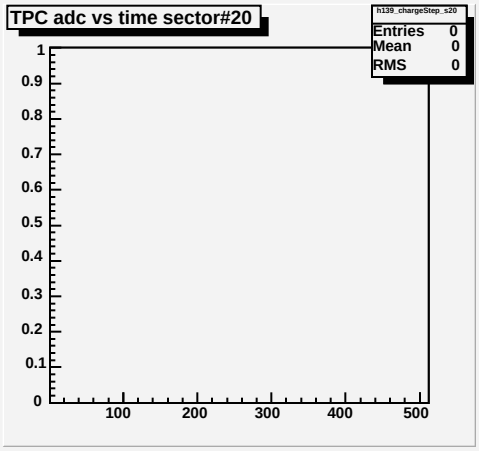

TPC adc vs time sector#15
h134_chargeStep_s15
Entries 0
Mean 0
RMS 0

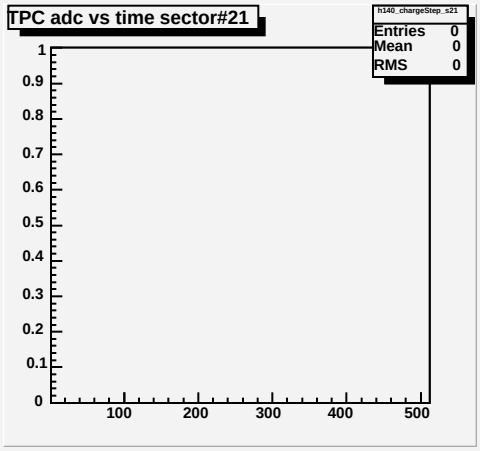

TPC adc vs time sector#16
h135_chargeStep_s16
Entries 0
Mean 0
RMS 0

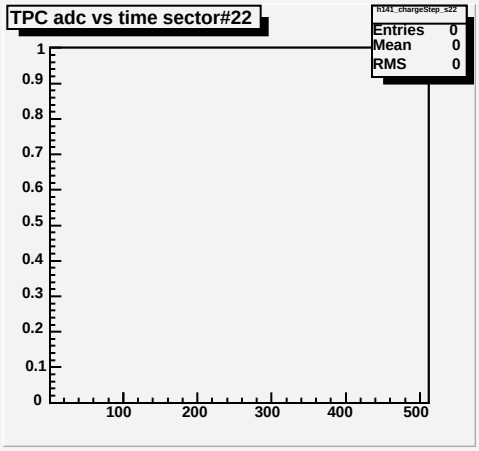

TPC adc vs time sector#17
h136_chargeStep_s17
Entries 0
Mean 0
RMS 0

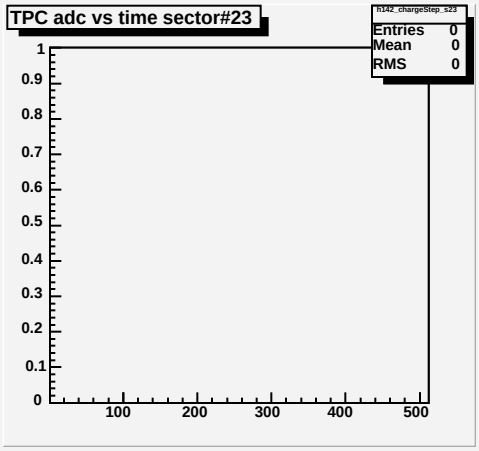

TPC adc vs time sector#18
h137_chargeStep_s18
Entries 0
Mean 0
RMS 0

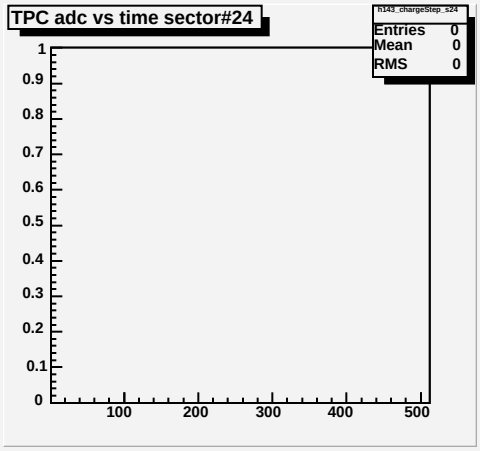

TPC adc vs time sector#19
h138_chargeStep_s19
Entries 0
Mean 0
RMS 0

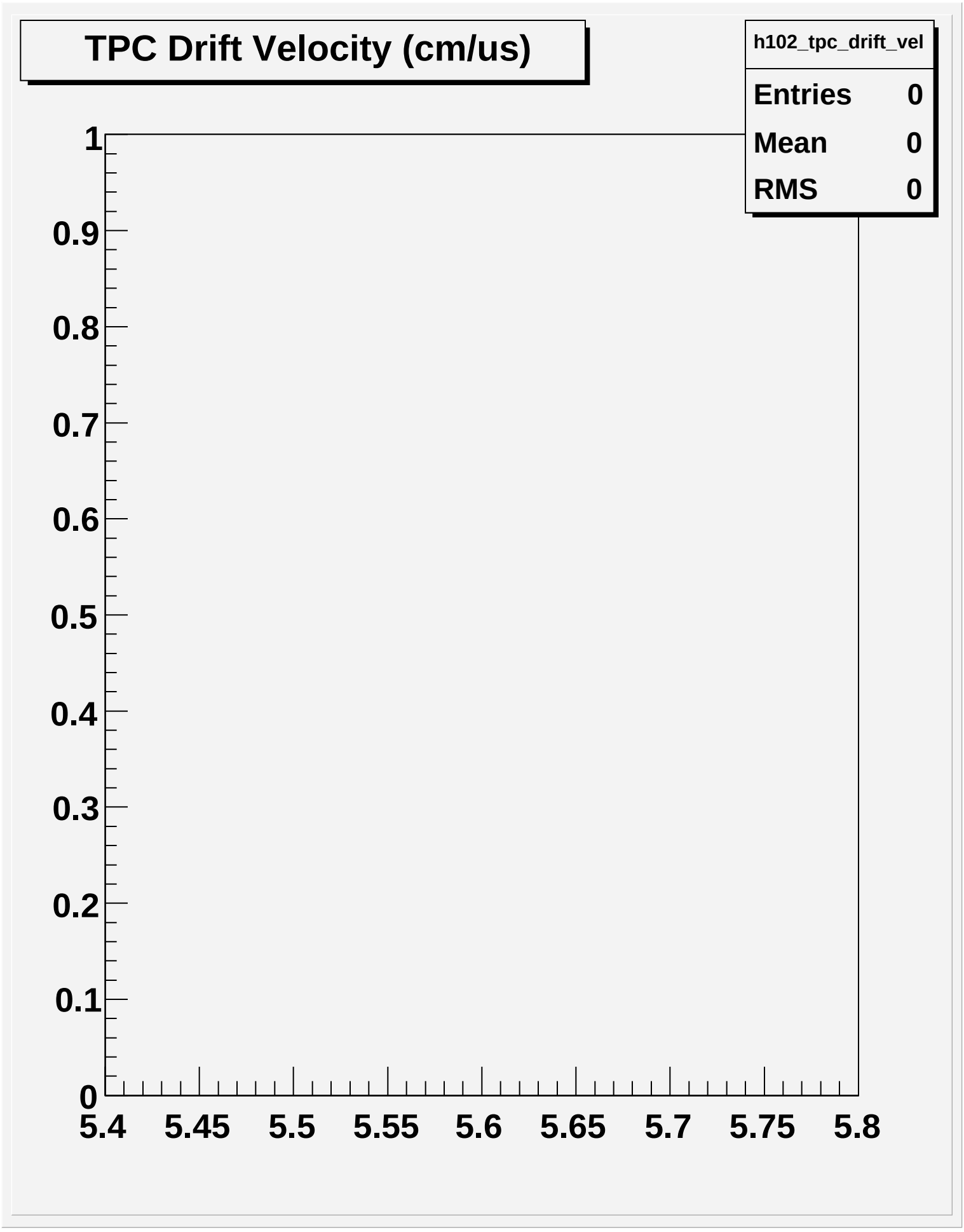

TPC adc vs time sector#20
h139_chargeStep_s20
Entries 0
Mean 0
RMS 0

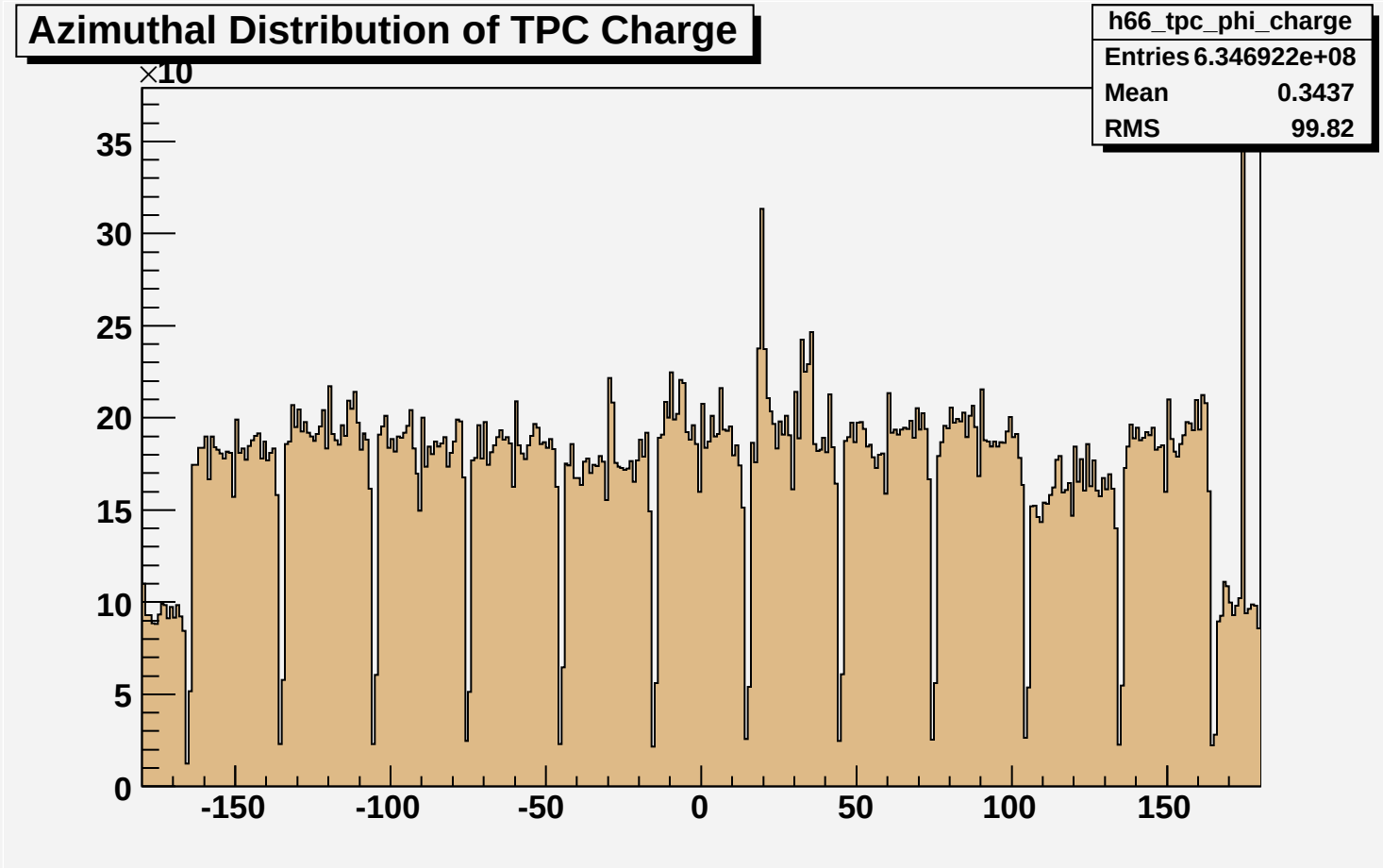

TPC adc vs time sector#21
h140_chargeStep_s21
Entries 0
Mean 0
RMS 0

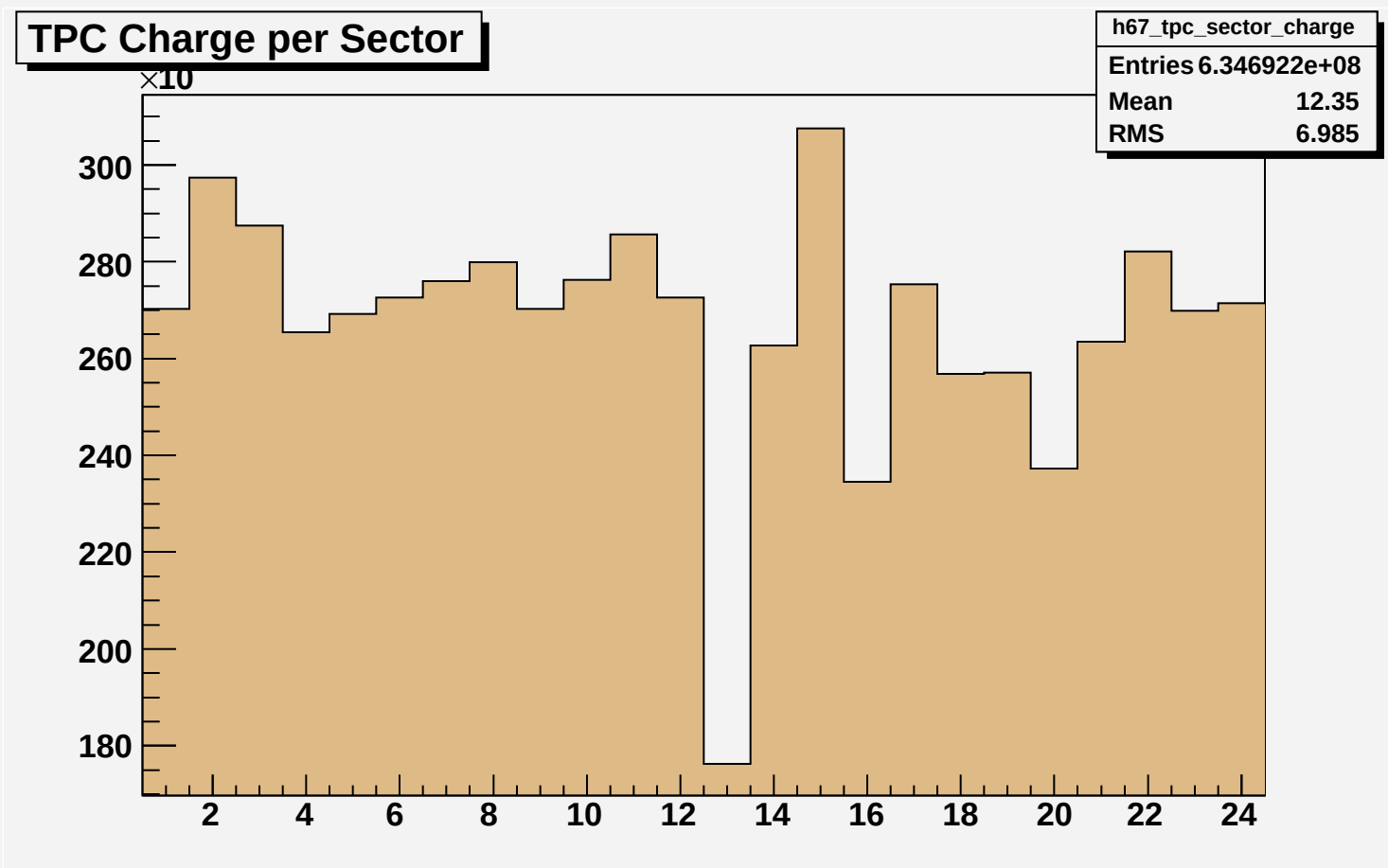

TPC adc vs time sector#22
h141_chargeStep_s22
Entries 0
Mean 0
RMS 0

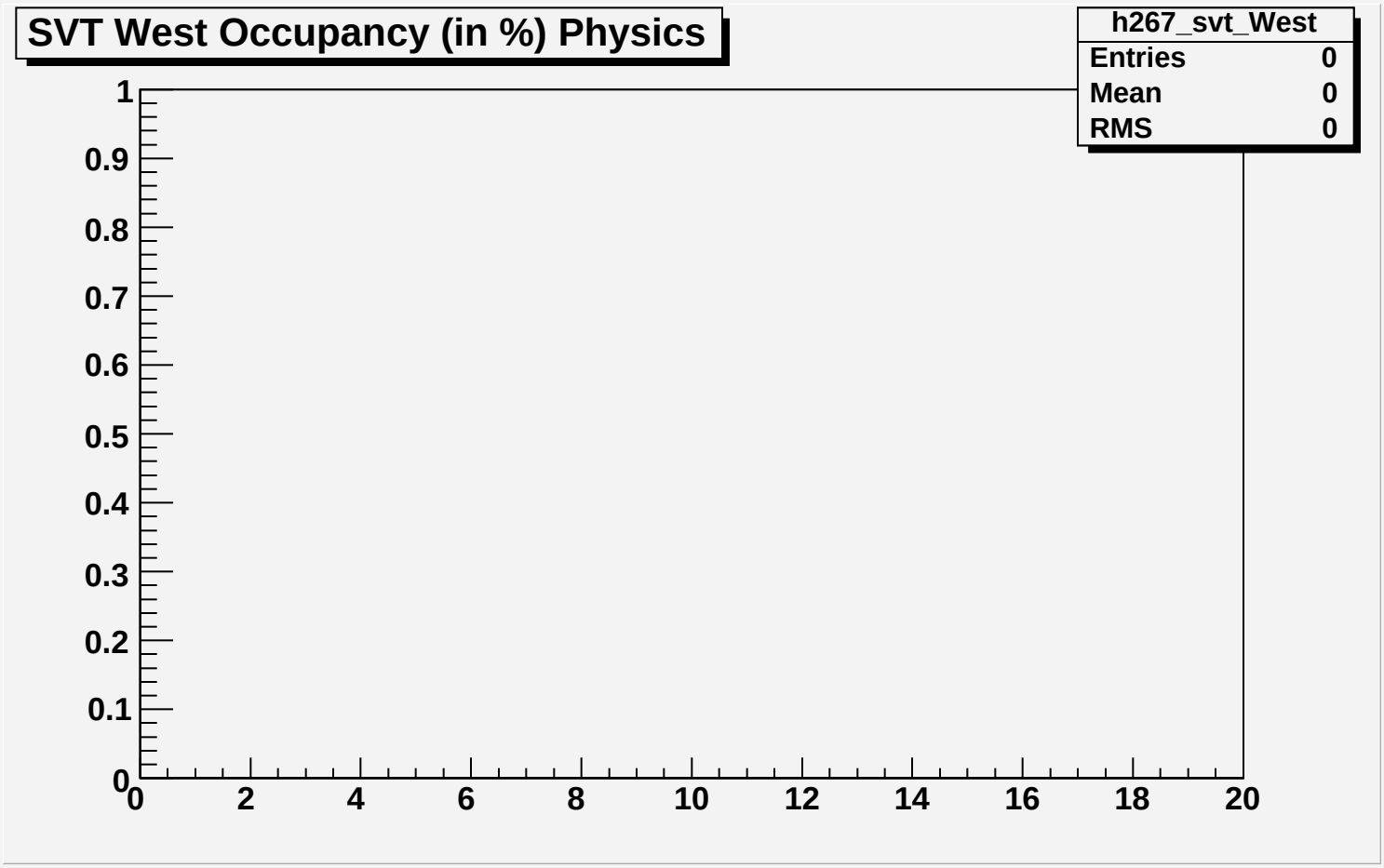

TPC adc vs time sector#23
h142_chargeStep_s23
Entries 0
Mean 0
RMS 0

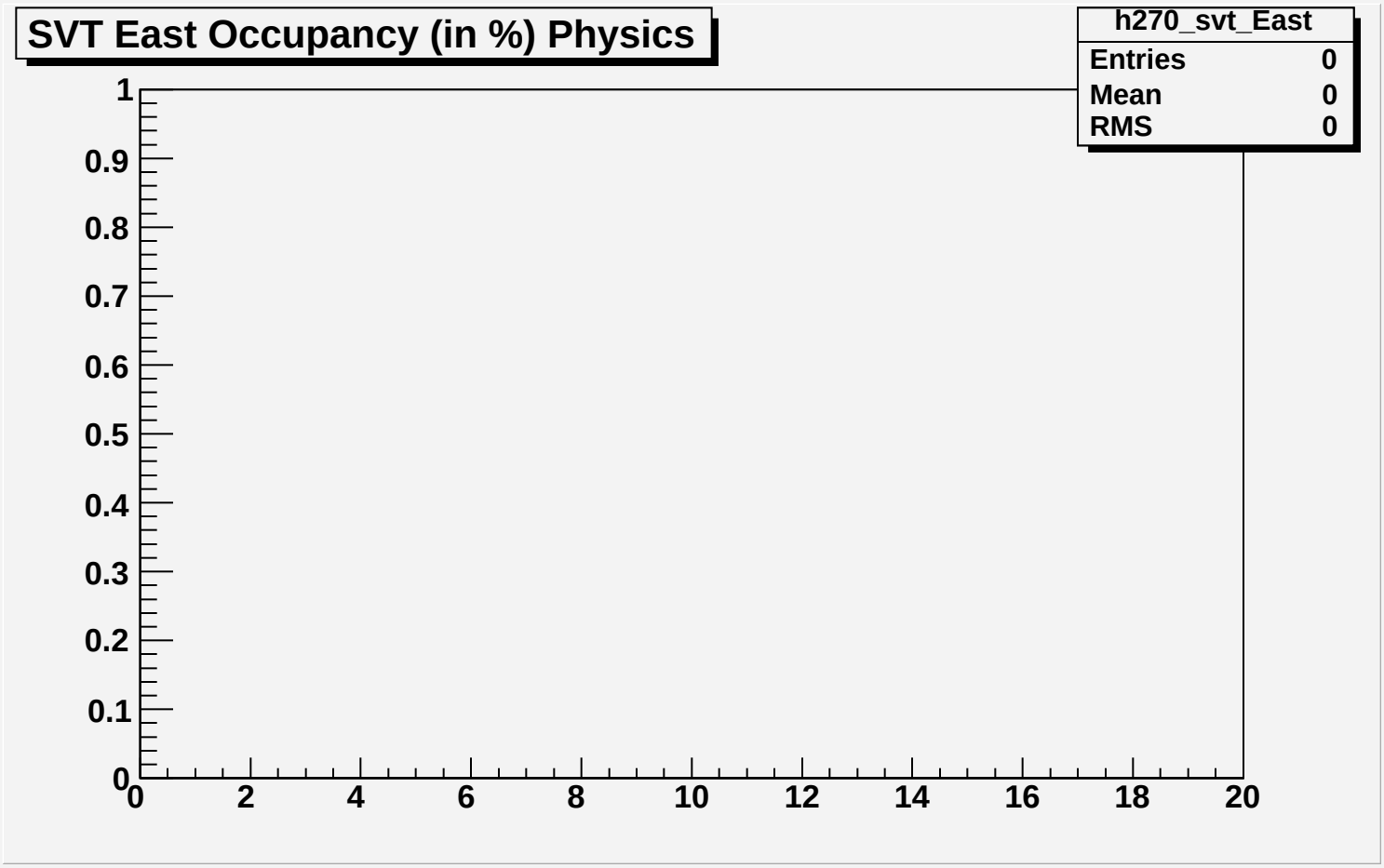

TPC adc vs time sector#24
h143_chargeStep_s24
Entries 0
Mean 0
RMS 0

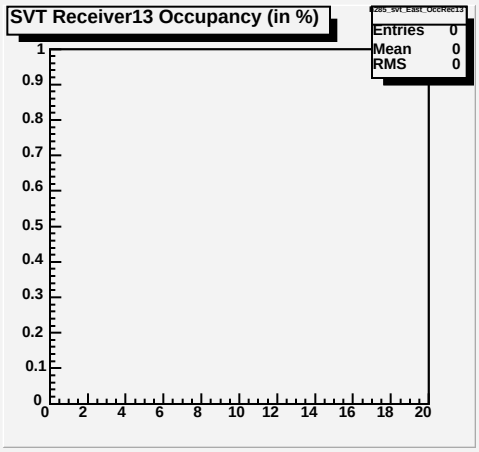

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

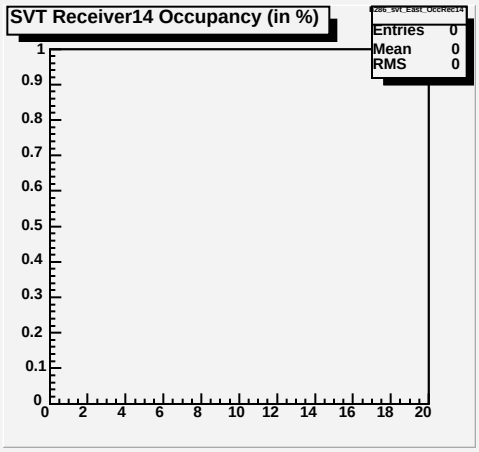

Azimuthal Distribution of TPC Charge
h66_tpc_phi_charge
Entries 6.346922e+08
Mean 0.3437
RMS 99.82
×10
35
30
25
20
15
10
5
0
-150
-100
-50
0
50
100
150

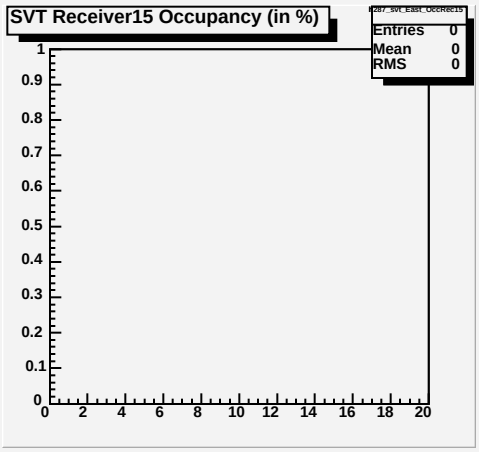

TPC Charge per Sector
h67_tpc_sector_charge
Entries 6.346922e+08
Mean 12.35
RMS 6.985
×10
300
280
260
240
220
200
180
2
4
6
8
10
12
14
16
18
20
22
24

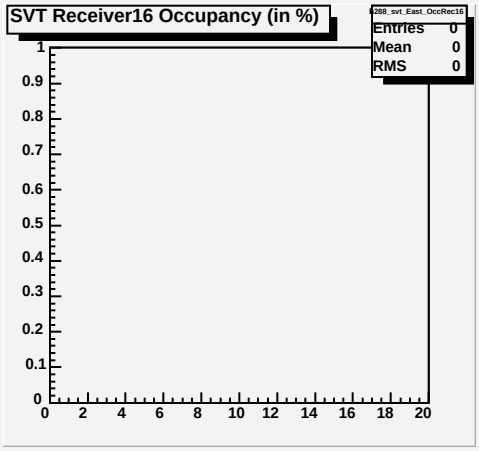

SVT West Occupancy (in %) Physics
h267_svt_West
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20

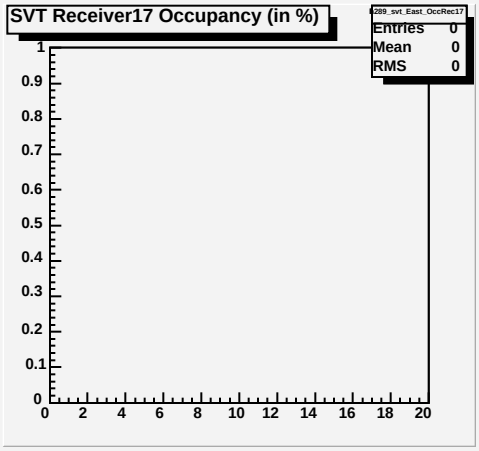

SVT East Occupancy (in %) Physics
h270_svt_East
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 2 4 6 8 10 12 14 16 18 20

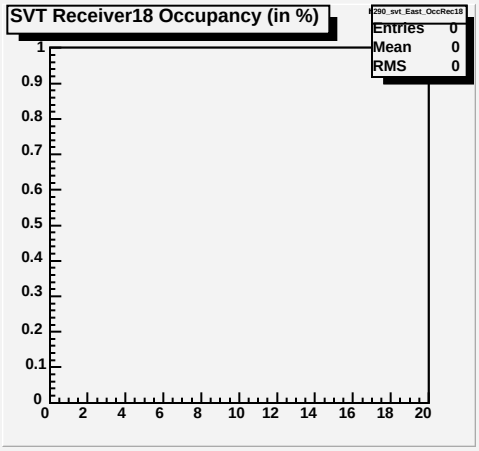

SVT Receiver13 Occupancy (in %)
h285_svt_East_OccRec13
Entries 0
Mean 0
RMS 0

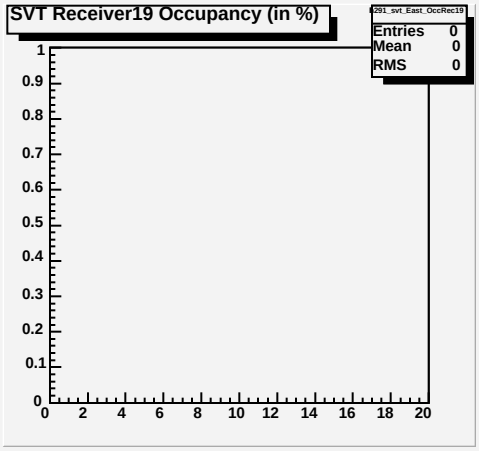

SVT Receiver14 Occupancy (in %)
h286_svt_East_OccRec14
Entries 0
Mean 0
RMS 0

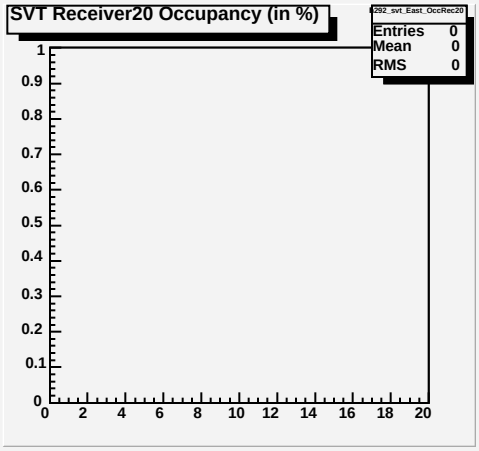

SVT Receiver15 Occupancy (in %)
h287_svt_East_OccRec15
Entries 0
Mean 0
RMS 0

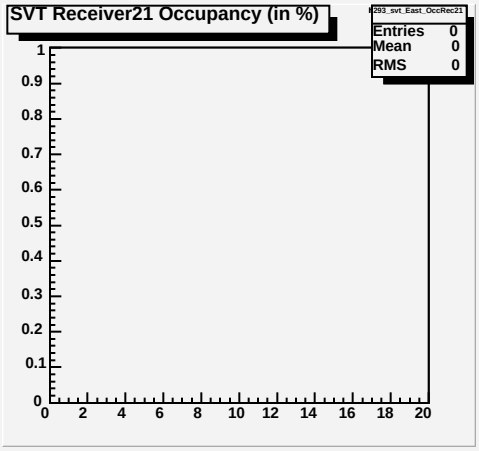

SVT Receiver16 Occupancy (in %)
h288_svt_East_OccRec16
Entries 0
Mean 0
RMS 0

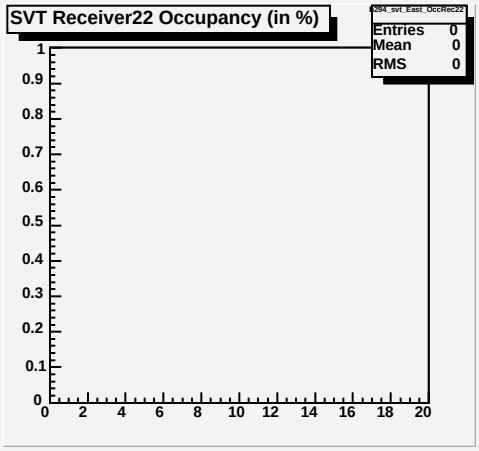

SVT Receiver17 Occupancy (in %)
h289_svt_East_OccRec17
Entries 0
Mean 0
RMS 0

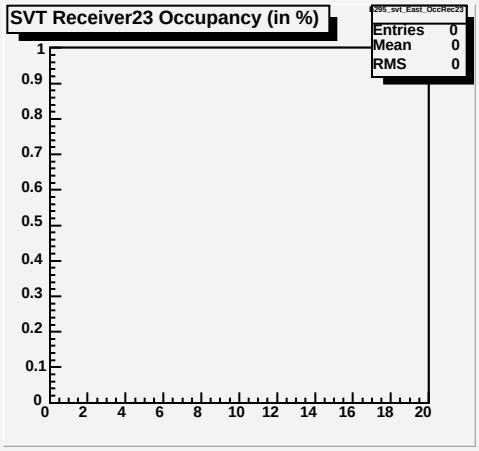

SVT Receiver18 Occupancy (in %)
h290_svt_East_OccRec18
Entries 0
Mean 0
RMS 0

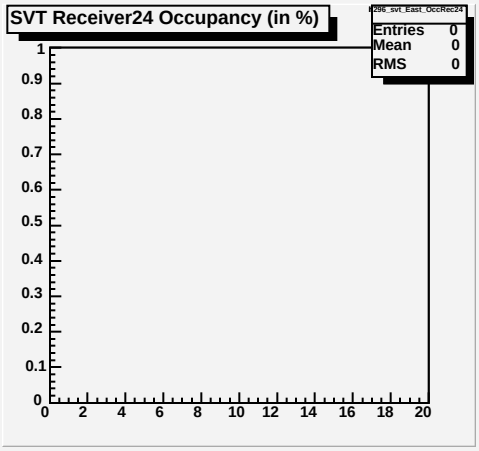

SVT Receiver19 Occupancy (in %)
h291_svt_East_OccRec19
Entries 0
Mean 0
RMS 0

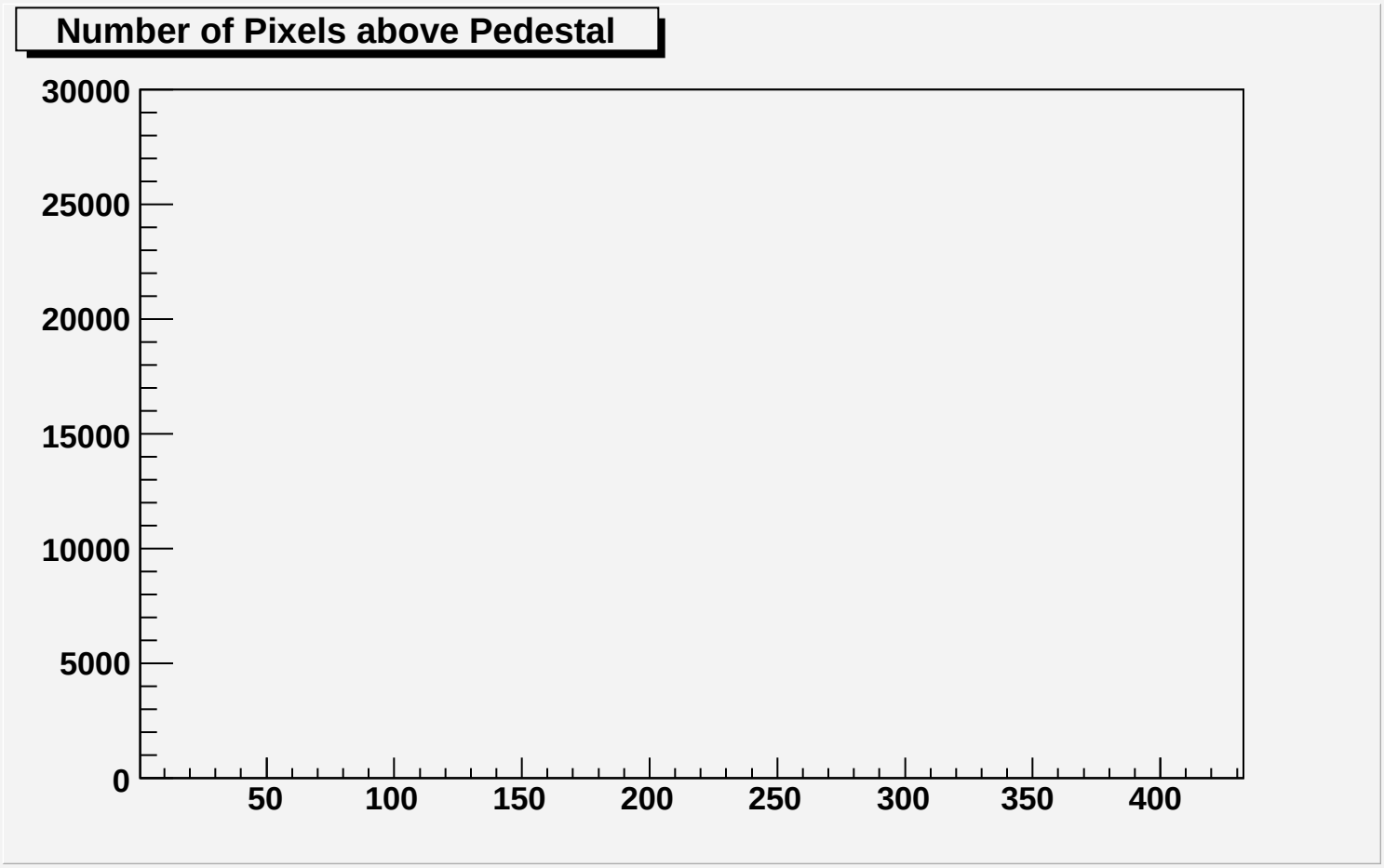

SVT Receiver20 Occupancy (in %)
h292_svt_East_OccRec20
Entries 0
Mean 0
RMS 0

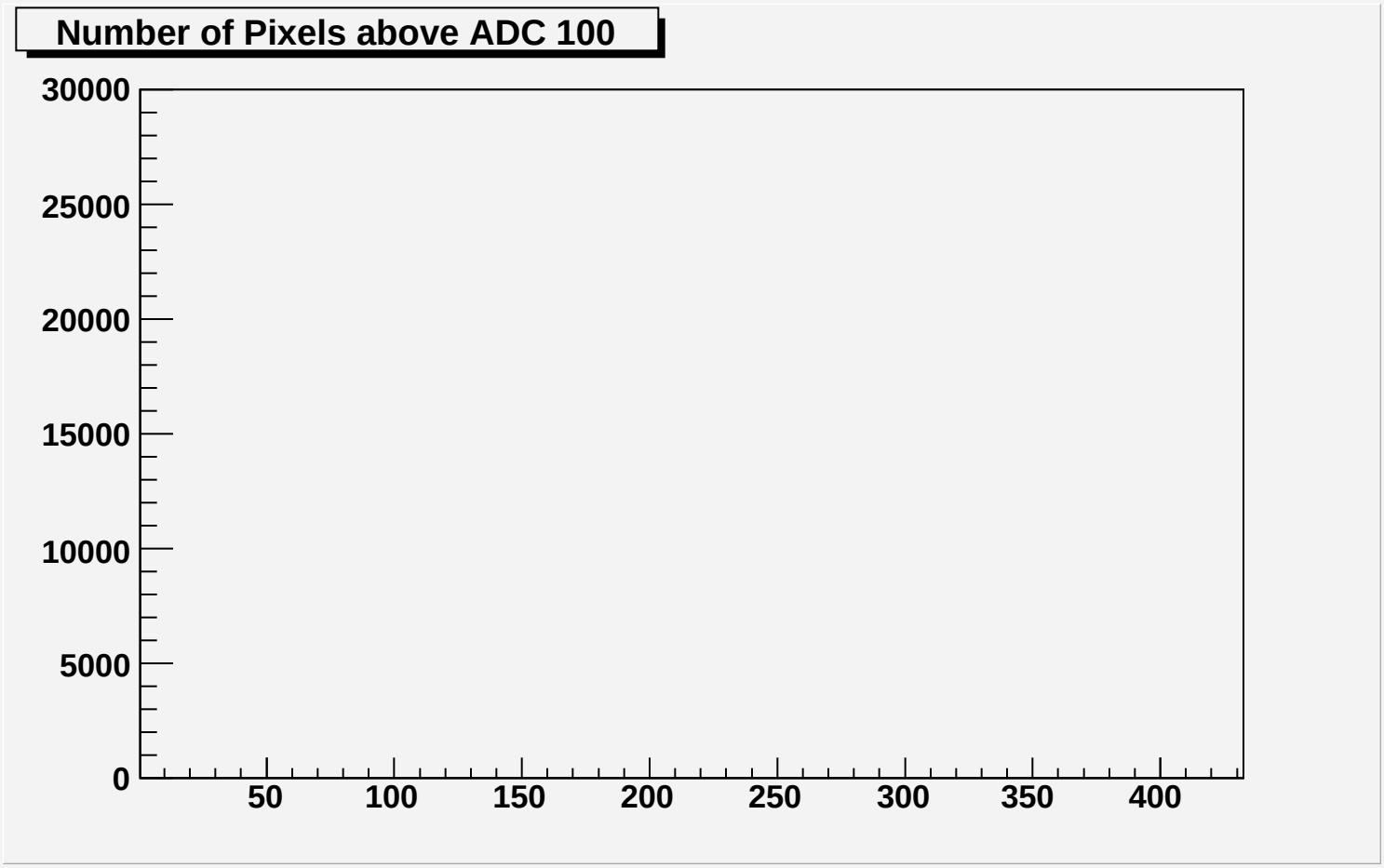

SVT Receiver21 Occupancy (in %)
h293_svt_East_OccRec21
Entries 0
Mean 0
RMS 0

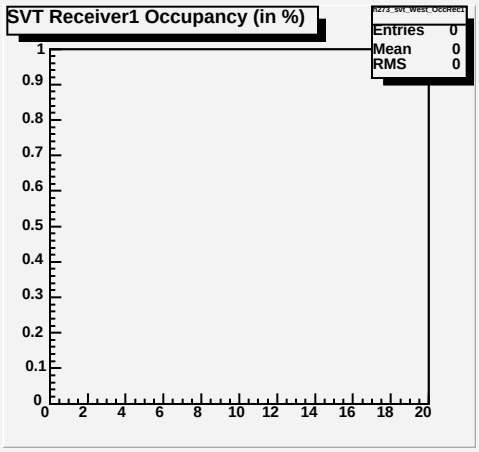

SVT Receiver22 Occupancy (in %)
h294_svt_East_OccRec22
Entries 0
Mean 0
RMS 0

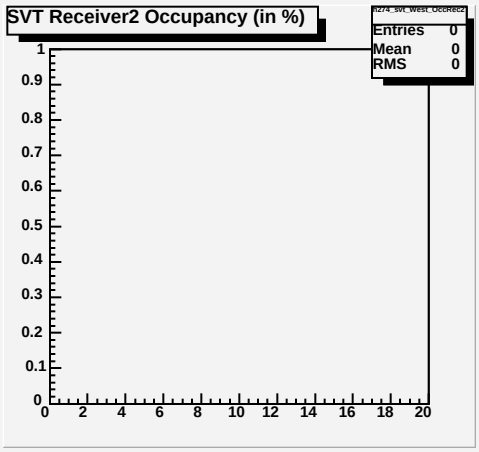

SVT Receiver23 Occupancy (in %)
h295_svt_East_OccRec23
Entries 0
Mean 0
RMS 0

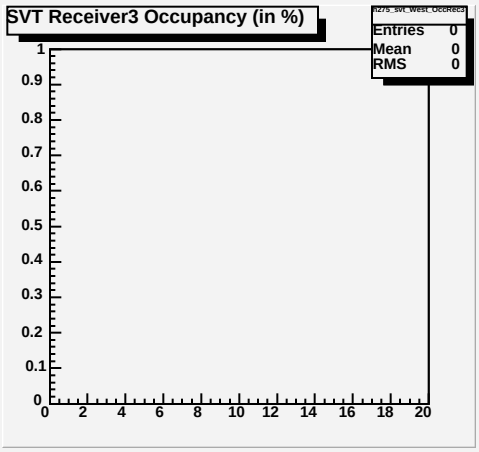

SVT Receiver24 Occupancy (in %)
h296_svt_East_OccRec24
Entries 0
Mean 0
RMS 0

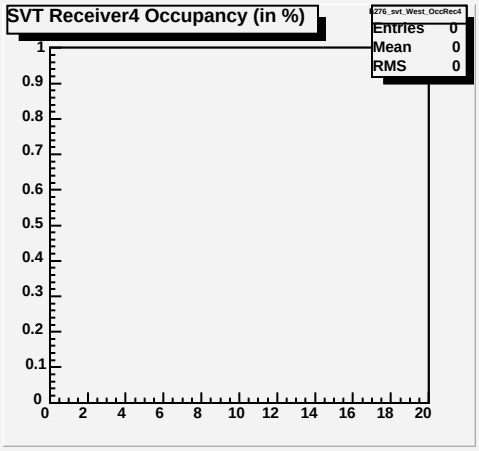

Number of Pixels above Pedestal
30000
25000
20000
15000
10000
5000
0
50
100
150
200
250
300
350
400

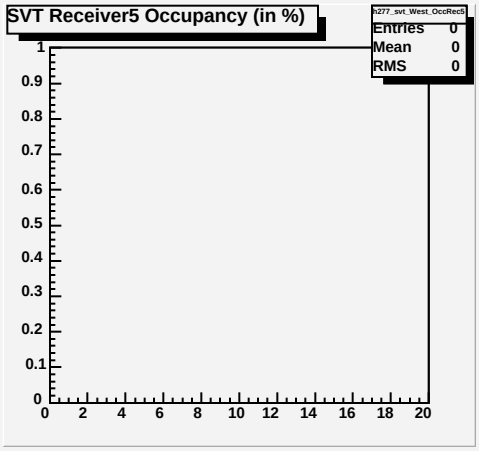

Number of Pixels above ADC 100
30000
25000
20000
15000
10000
5000
0
50
100
150
200
250
300
350
400

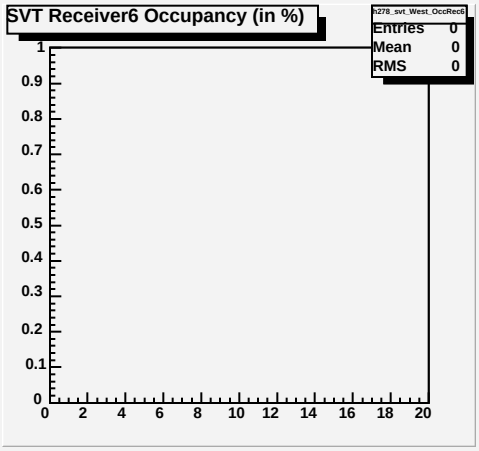

SVT Receiver1 Occupancy (in %)
h273_svt_West_OccRec1
Entries 0
Mean 0
RMS 0

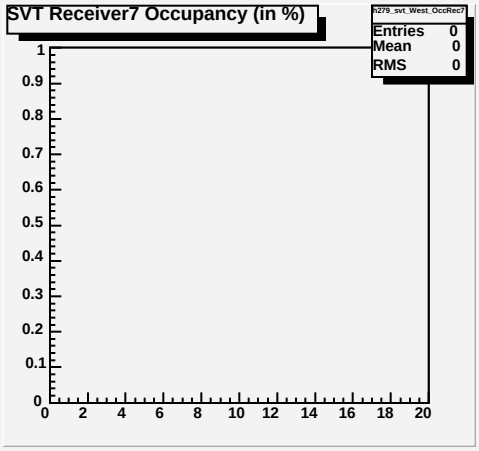

SVT Receiver2 Occupancy (in %)
h274_svt_West_OccRec2
Entries 0
Mean 0
RMS 0

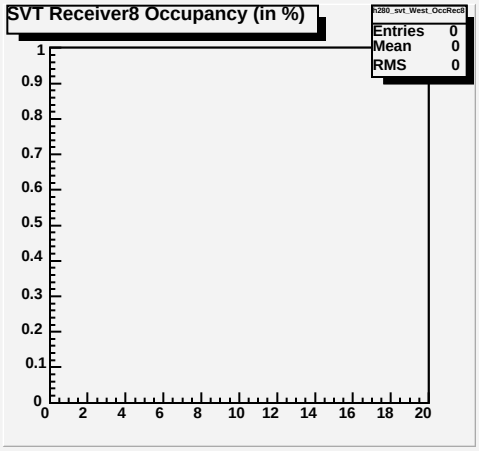

SVT Receiver3 Occupancy (in %)
h275_svt_West_OccRec3
Entries 0
Mean 0
RMS 0

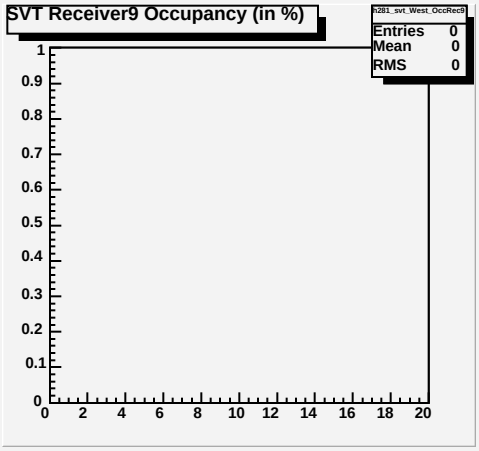

SVT Receiver4 Occupancy (in %)
h276_svt_West_OccRec4
Entries 0
Mean 0
RMS 0

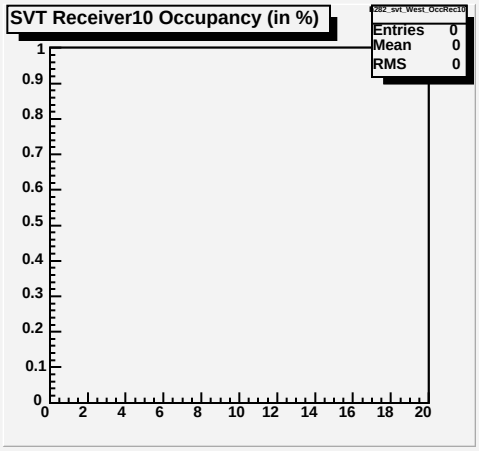

SVT Receiver5 Occupancy (in %)
h277_svt_West_OccRec5
Entries 0
Mean 0
RMS 0

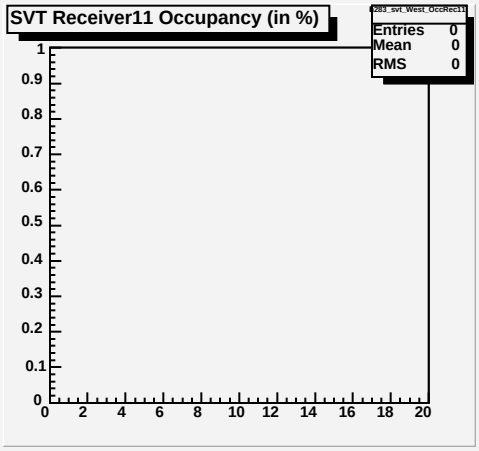

SVT Receiver6 Occupancy (in %)
h278_svt_West_OccRec6
Entries 0
Mean 0
RMS 0

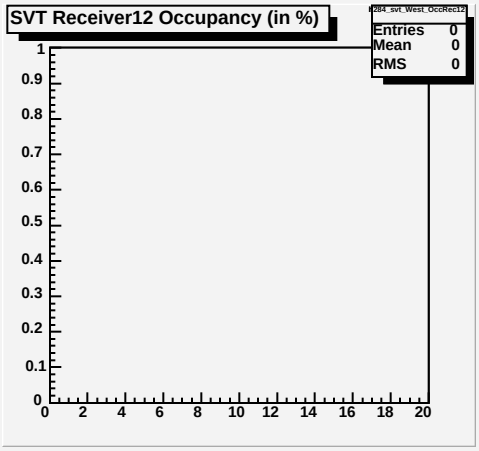

SVT Receiver7 Occupancy (in %)
h279_svt_West_OccRec7
Entries 0
Mean 0
RMS 0

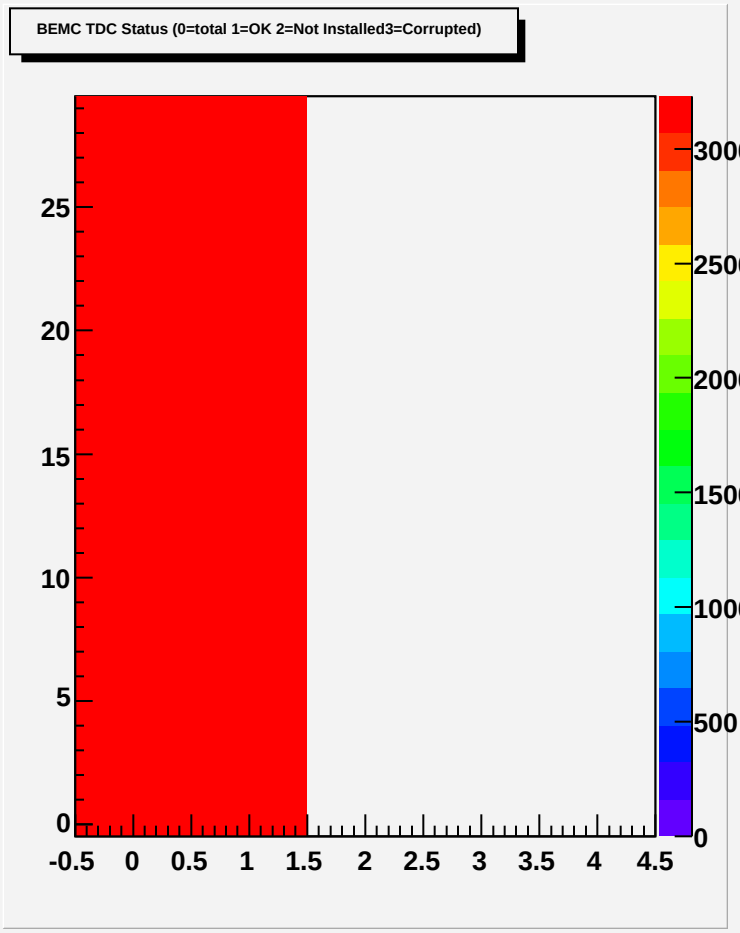

SVT Receiver8 Occupancy (in %)
h280_svt_West_OccRec8
Entries 0
Mean 0
RMS 0

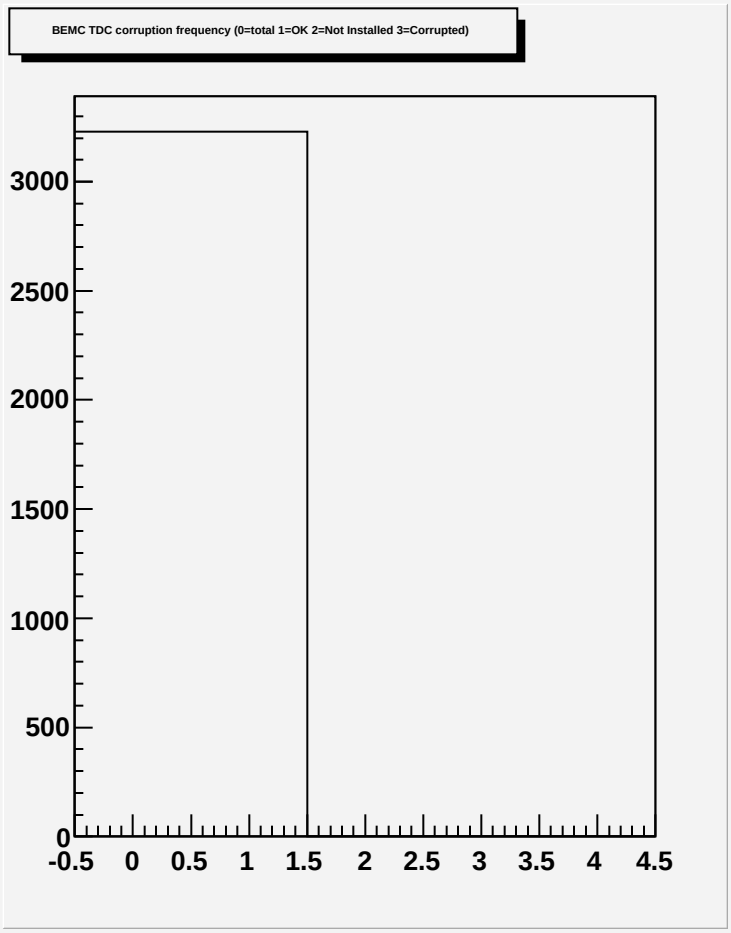

SVT Receiver9 Occupancy (in %)
h281_svt_West_OccRec9
Entries 0
Mean 0
RMS 0

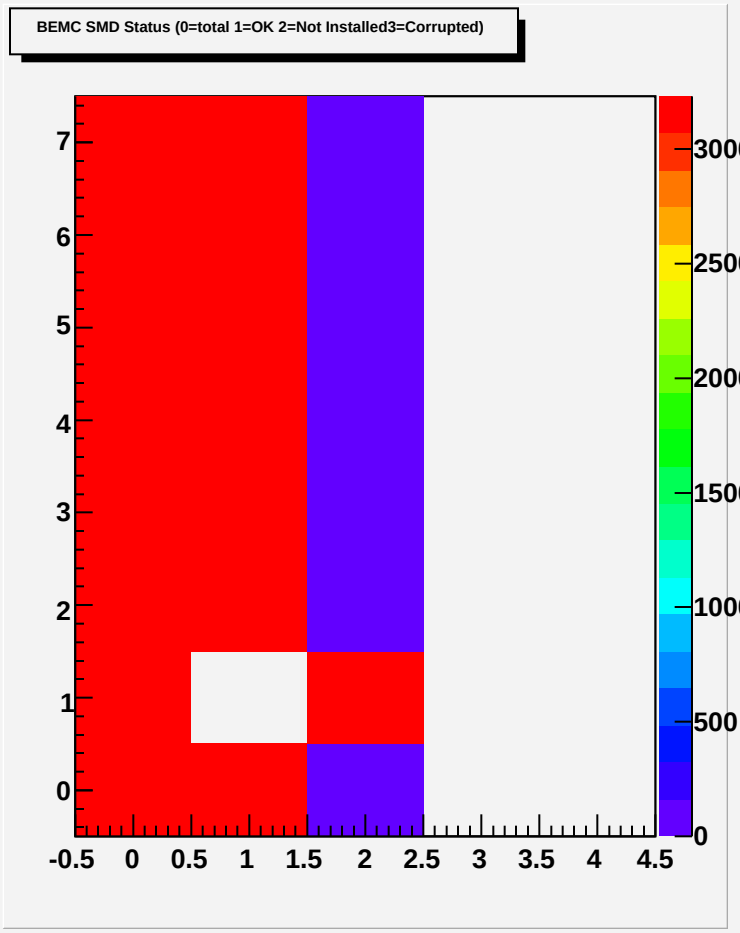

SVT Receiver10 Occupancy (in %)
h282_svt_West_OccRec10
Entries 0
Mean 0
RMS 0

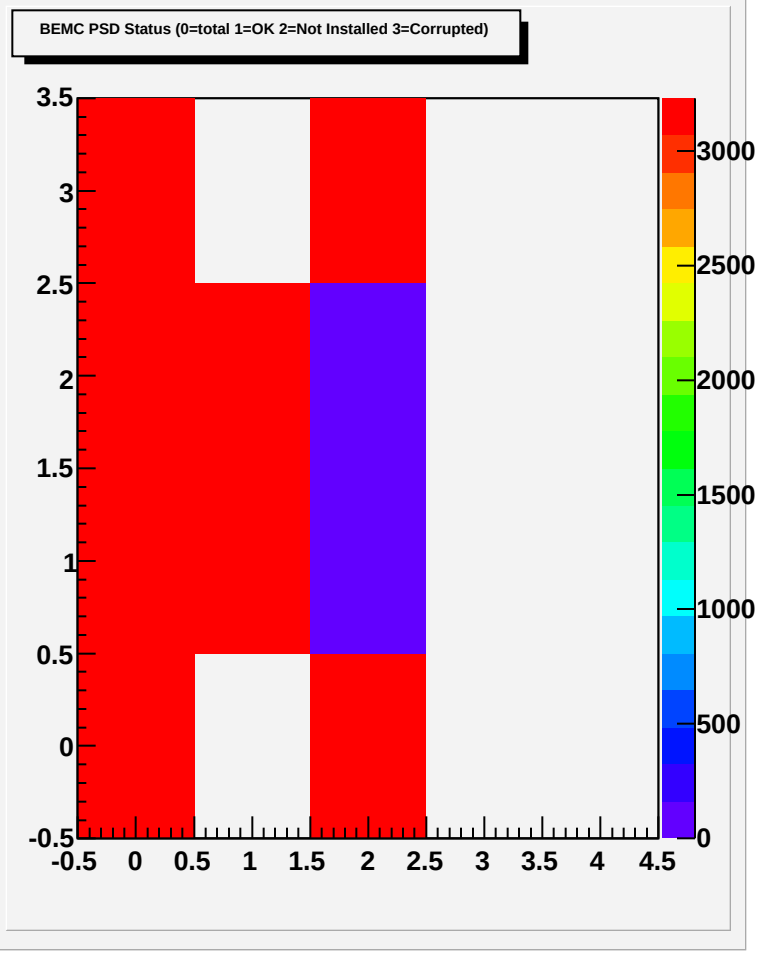

SVT Receiver11 Occupancy (in %)
h283_svt_West_OccRec11
Entries 0
Mean 0
RMS 0

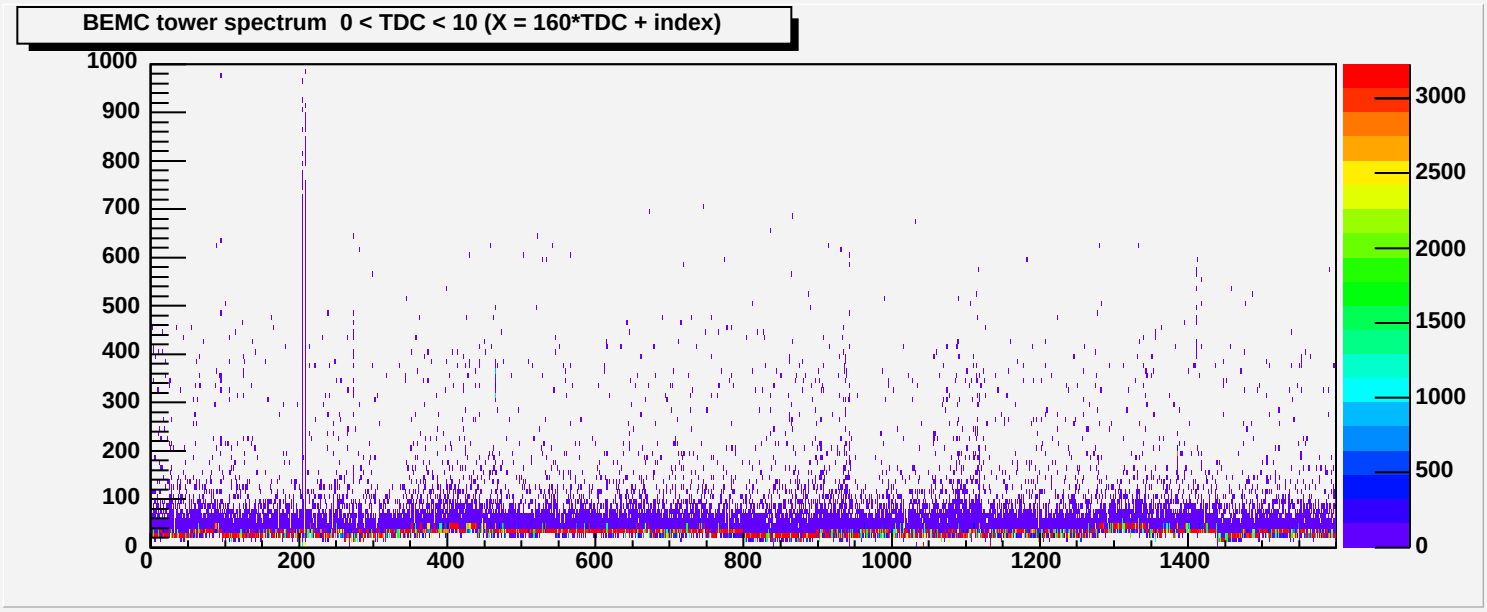

SVT Receiver12 Occupancy (in %)
h284_svt_West_OccRec12
Entries 0
Mean 0
RMS 0

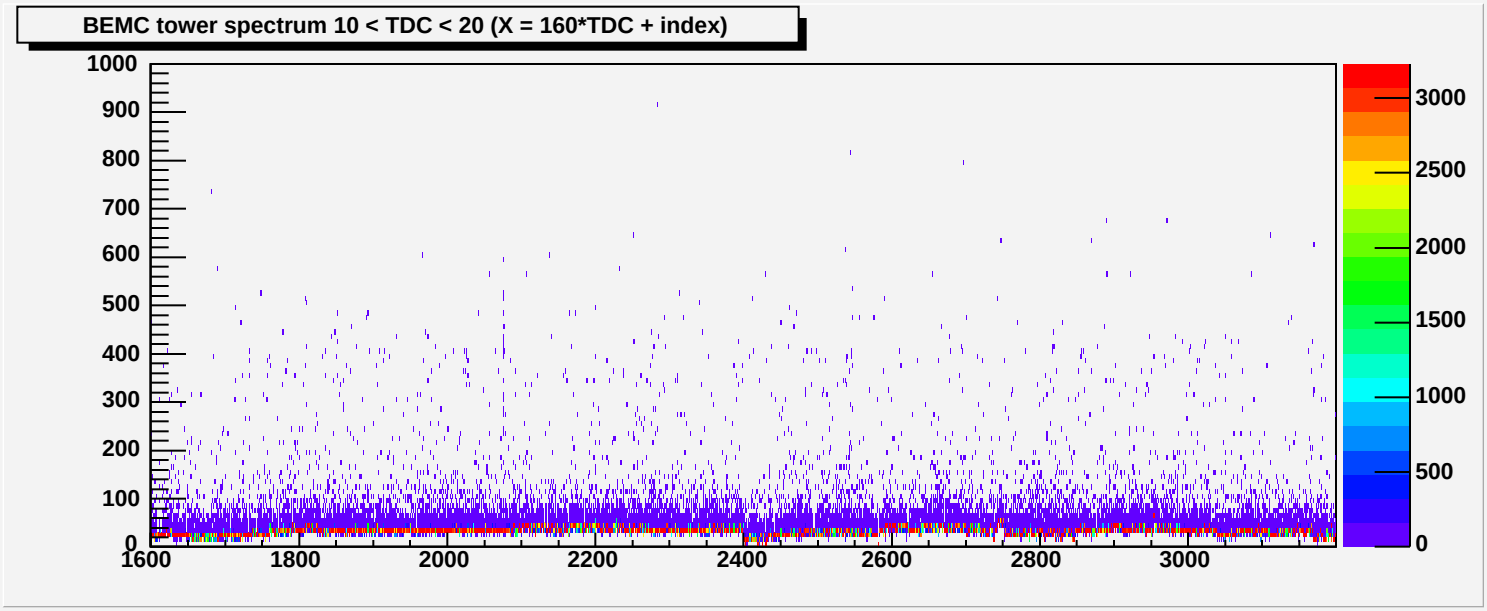

BEMC TDC Status (0=total 1=OK 2=Not Installed3=Corrupted)
0
5
10
15
20
25
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5
0 500 1000 1500 2000 2500 3000

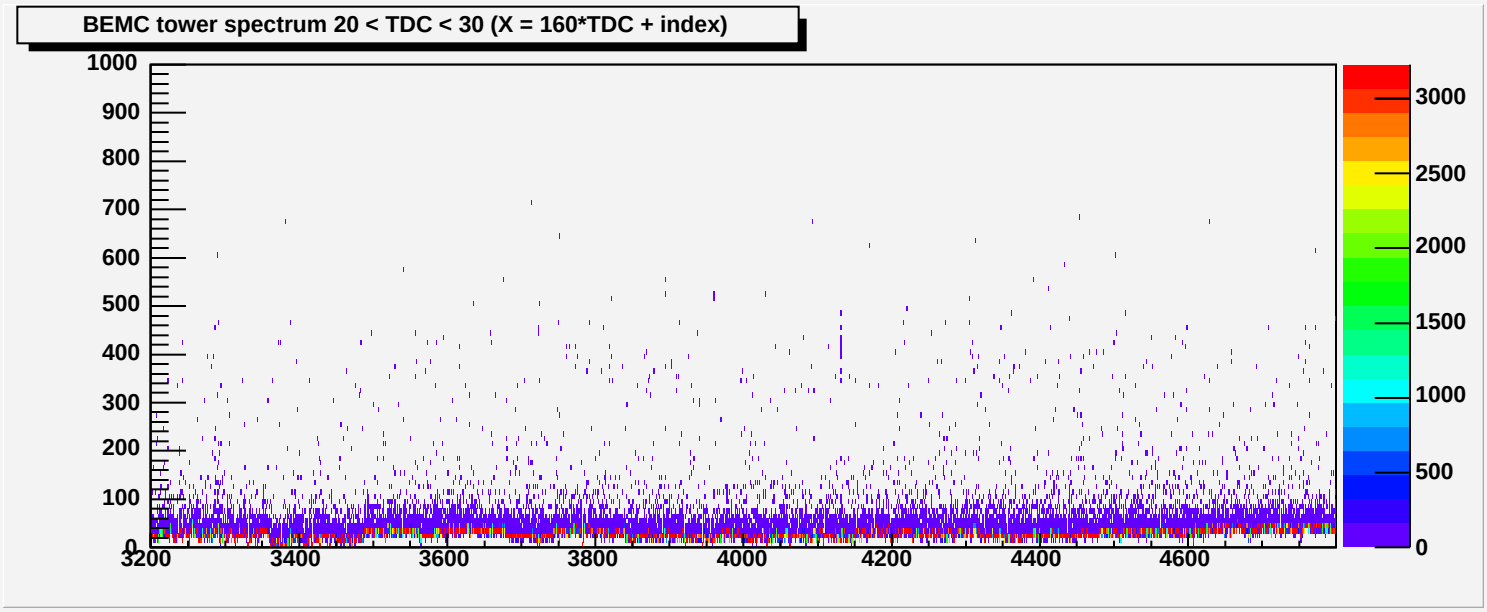

BEMC TDC corruption frequency (0=total 1=OK 2=Not Installed 3=Corrupted)
0 500 1000 1500 2000 2500 3000
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5

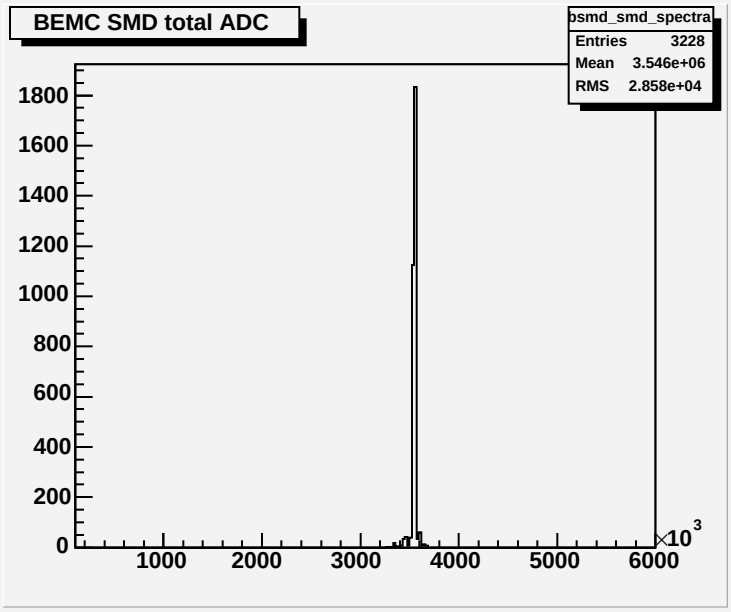

BEMC SMD Status (0=total 1=OK 2=Not Installed3=Corrupted)
0
1
2
3
4
5
6
7
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5
0 500 1000 1500 2000 2500 3000

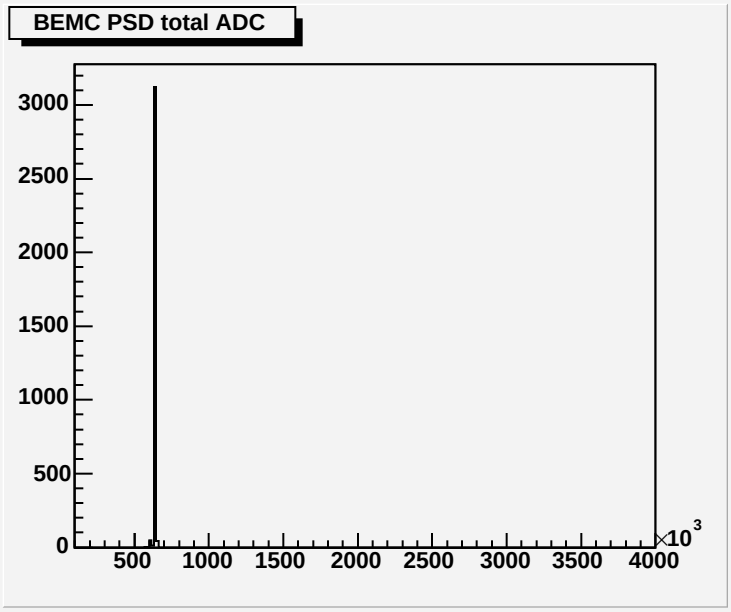

BEMC PSD Status (0=total 1=OK 2=Not Installed 3=Corrupted)
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5
0 500 1000 1500 2000 2500 3000

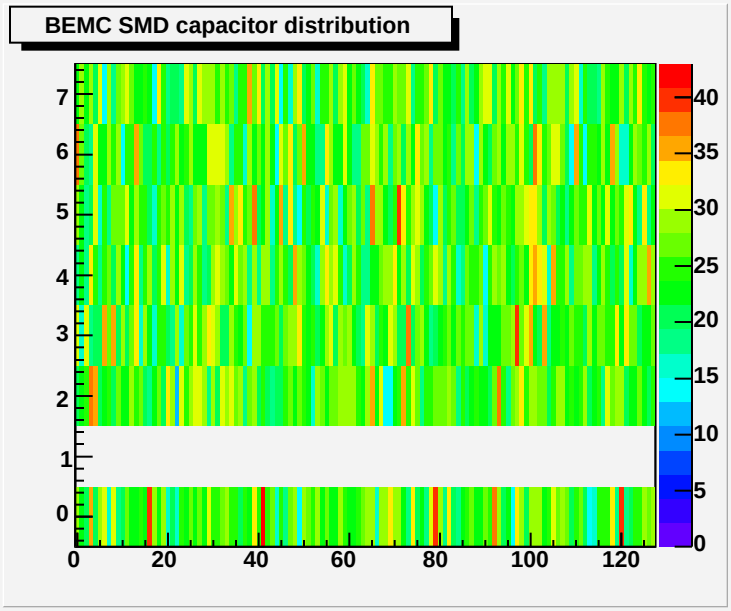

BEMC tower spectrum 0 < TDC < 10 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
0
200
400
600
800
1000
1200
1400
3000
2500
2000
1500
1000
500
0

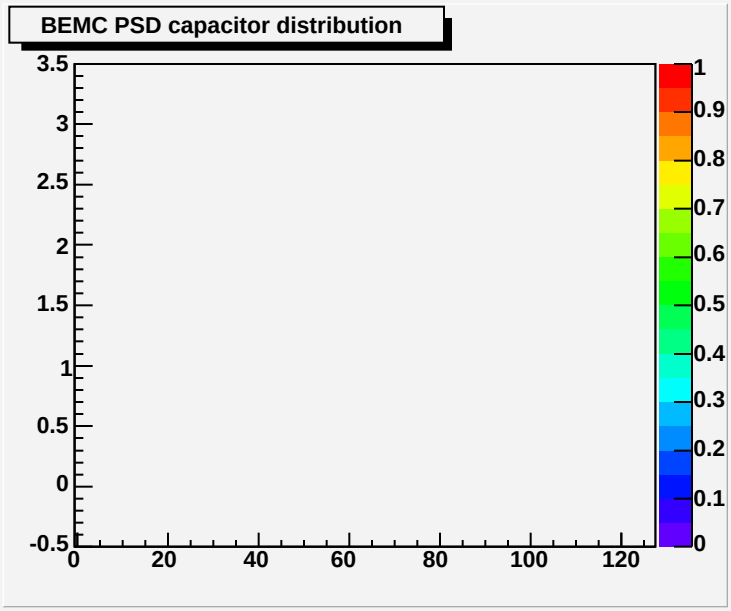

BEMC tower spectrum 10 < TDC < 20 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
1600
1800
2000
2200
2400
2600
2800
3000
3000
2500
2000
1500
1000
500
0

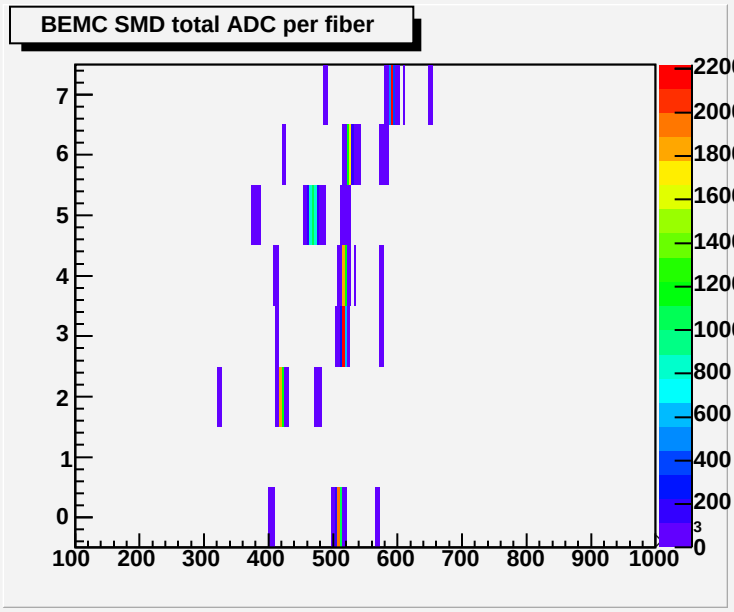

BEMC tower spectrum 20 < TDC < 30 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
3200
3400
3600
3800
4000
4200
4400
4600
3000
2500
2000
1500
1000
500
0

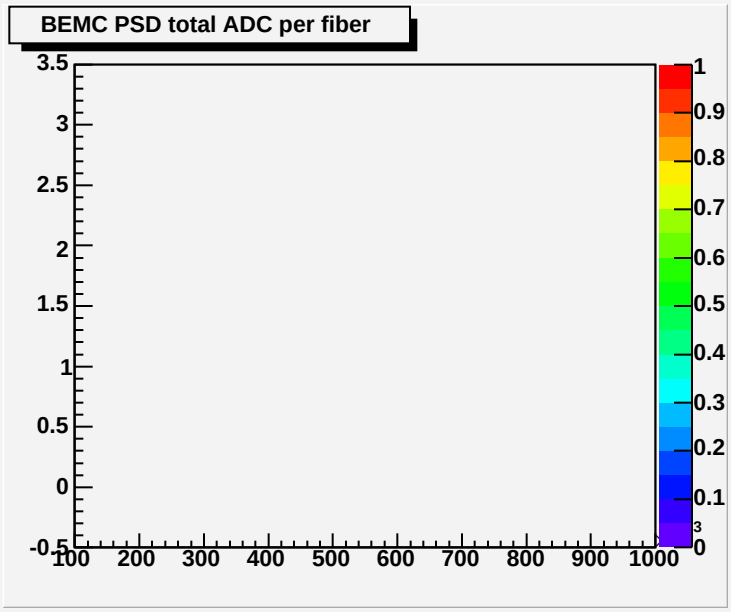

BEMC SMD total ADC
bsmd_smd_spectra
Entries 3228
Mean 3.546e+06
RMS 2.858e+04
×10^3

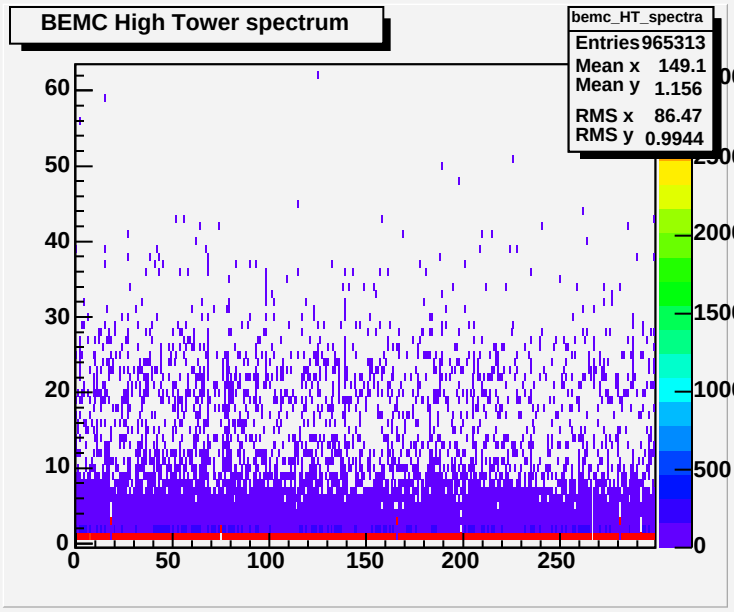

BEMC PSD total ADC
×10^3

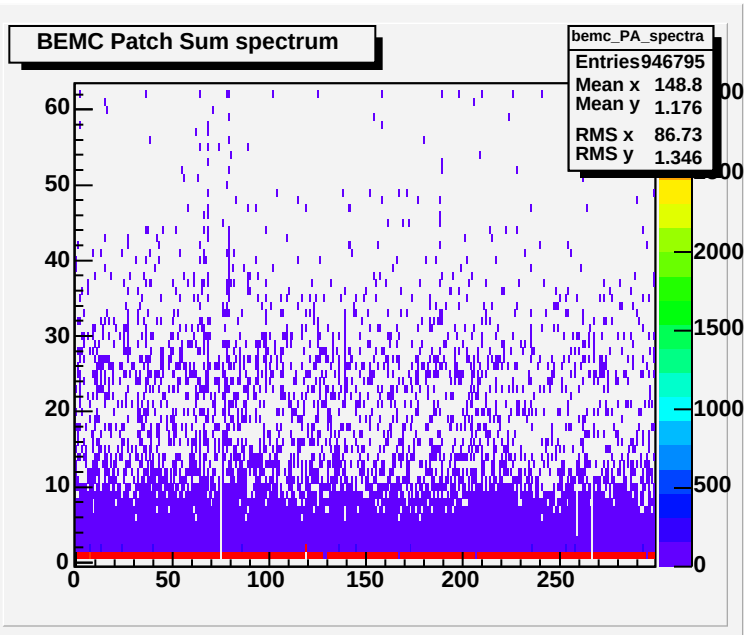

BEMC SMD capacitor distribution

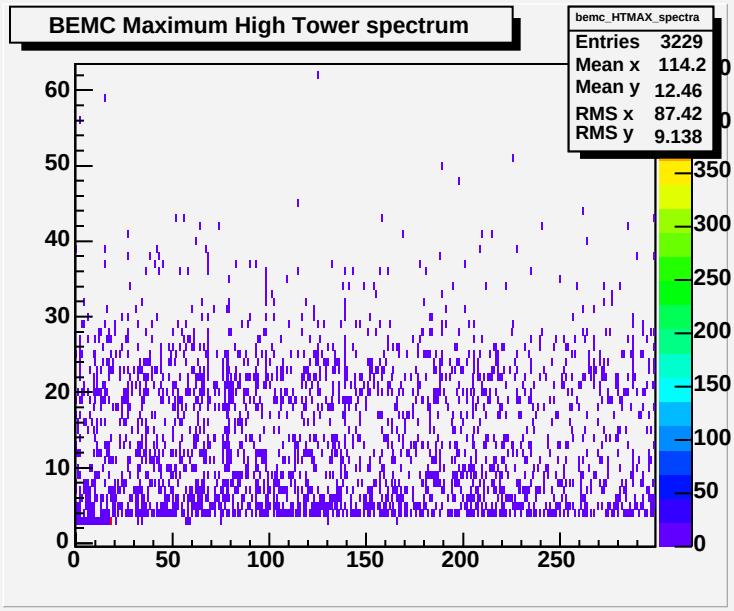

BEMC PSD capacitor distribution

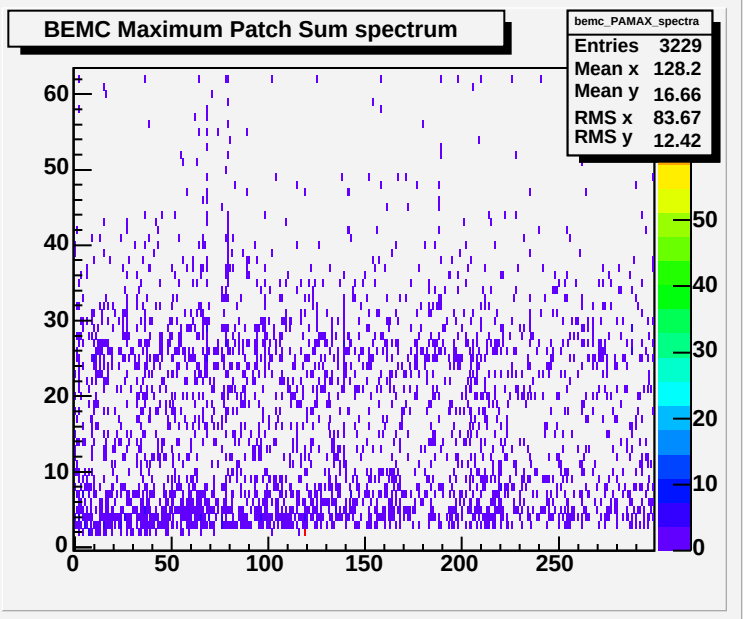

BEMC SMD total ADC per fiber

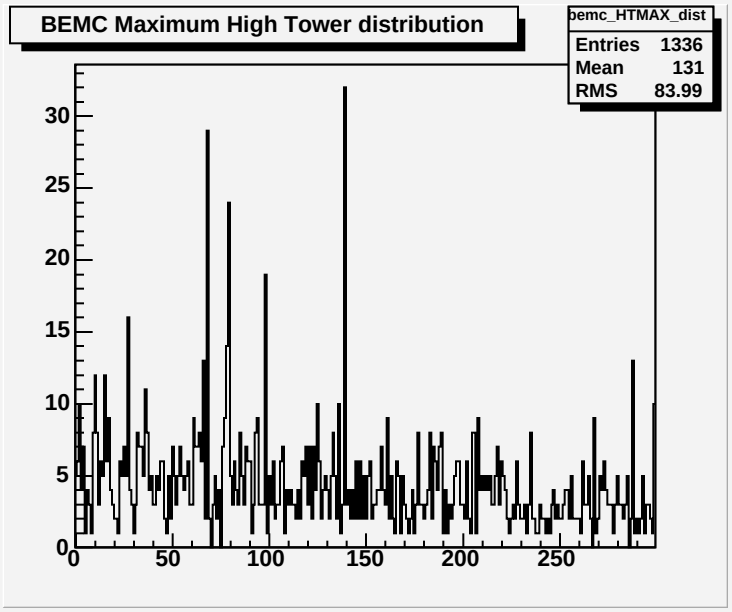

BEMC PSD total ADC per fiber

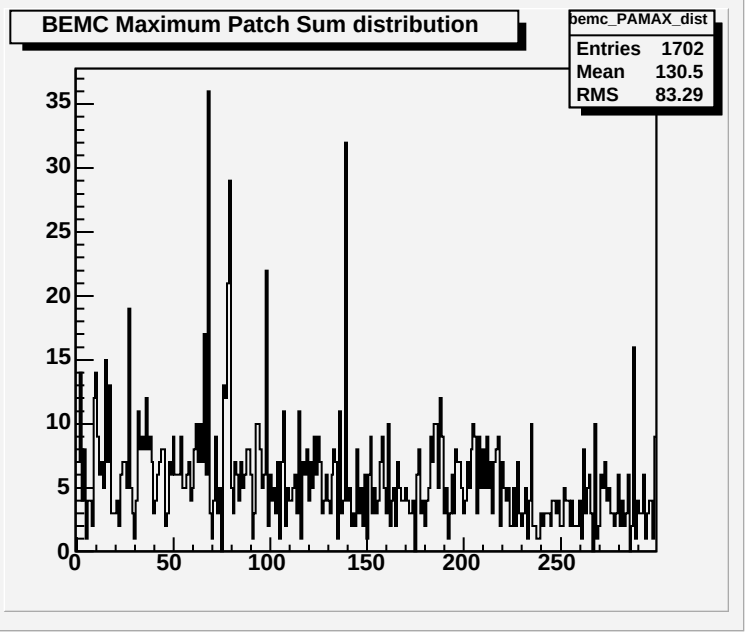

BEMC High Tower spectrum
bemc_HT_spectra
Entries 965313
Mean x 149.1
Mean y 1.156
RMS x 86.47
RMS y 0.9944

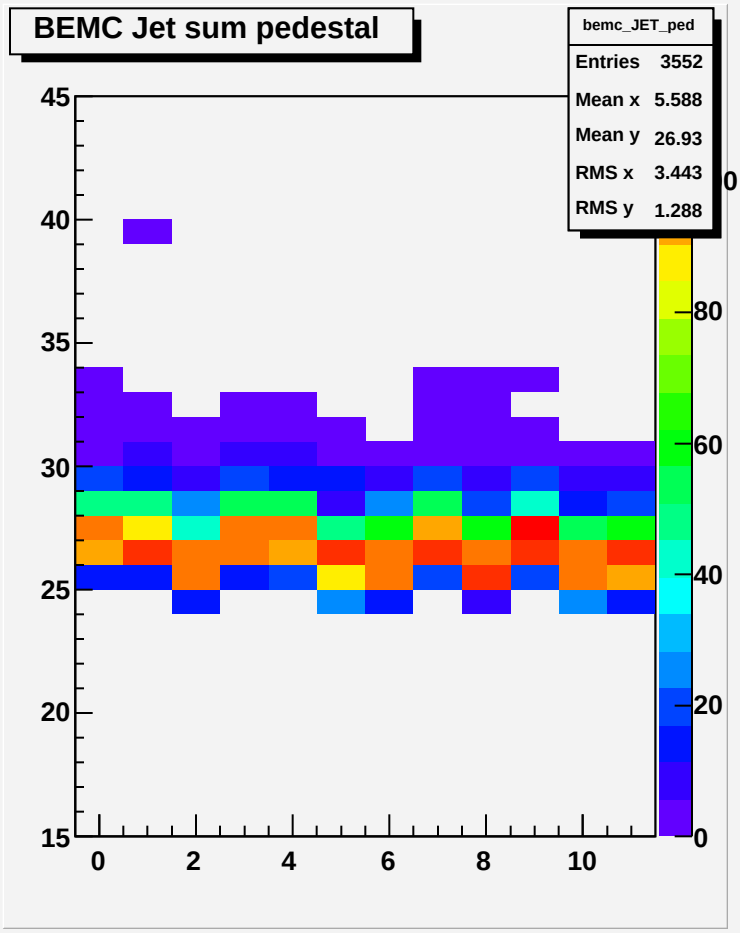

BEMC Patch Sum spectrum
bemc_PA_spectra
Entries 946795
Mean x 148.8
Mean y 1.176
RMS x 86.73
RMS y 1.346

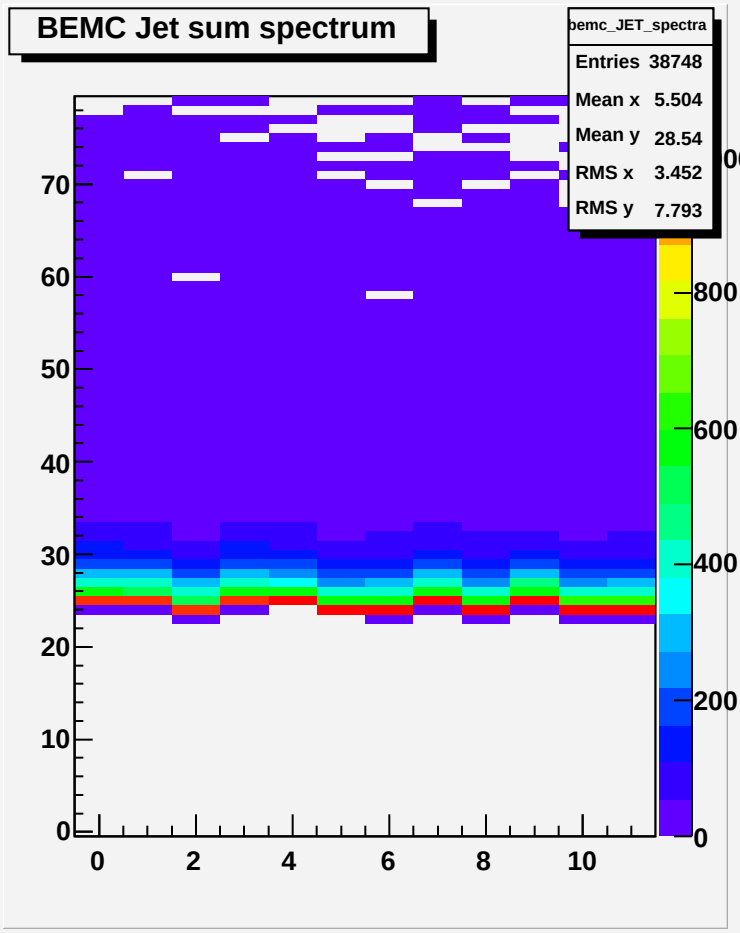

BEMC Maximum High Tower spectrum
bemc_HTMAX_spectra
Entries 3229
Mean x 114.2
Mean y 12.46
RMS x 87.42
RMS y 9.138

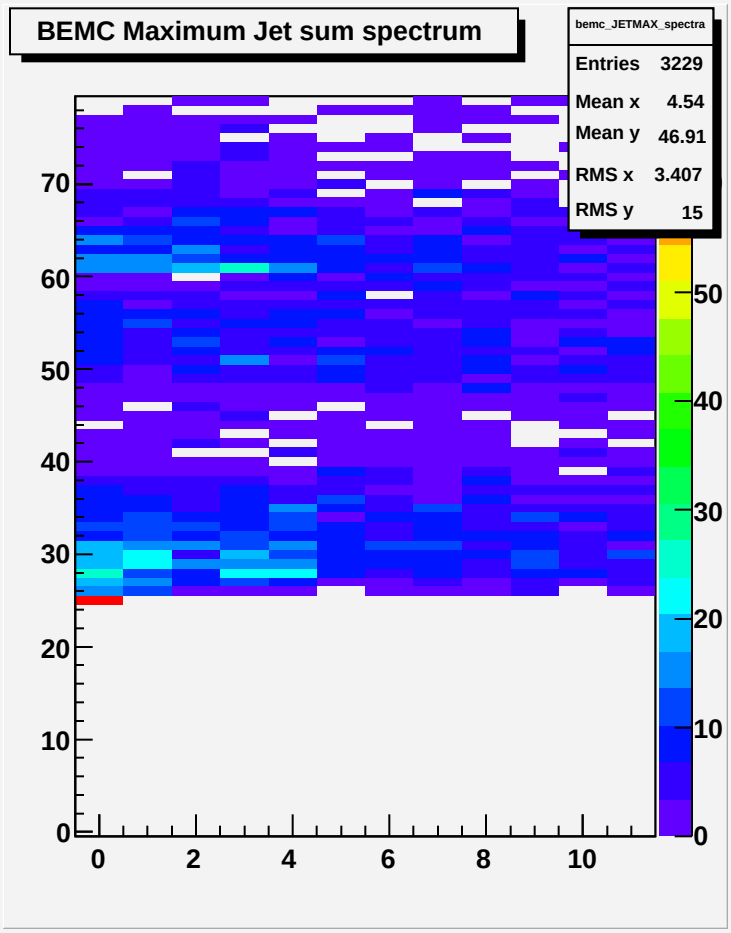

BEMC Maximum Patch Sum spectrum
bemc_PAMAX_spectra
Entries 3229
Mean x 128.2
Mean y 16.66
RMS x 83.67
RMS y 12.42

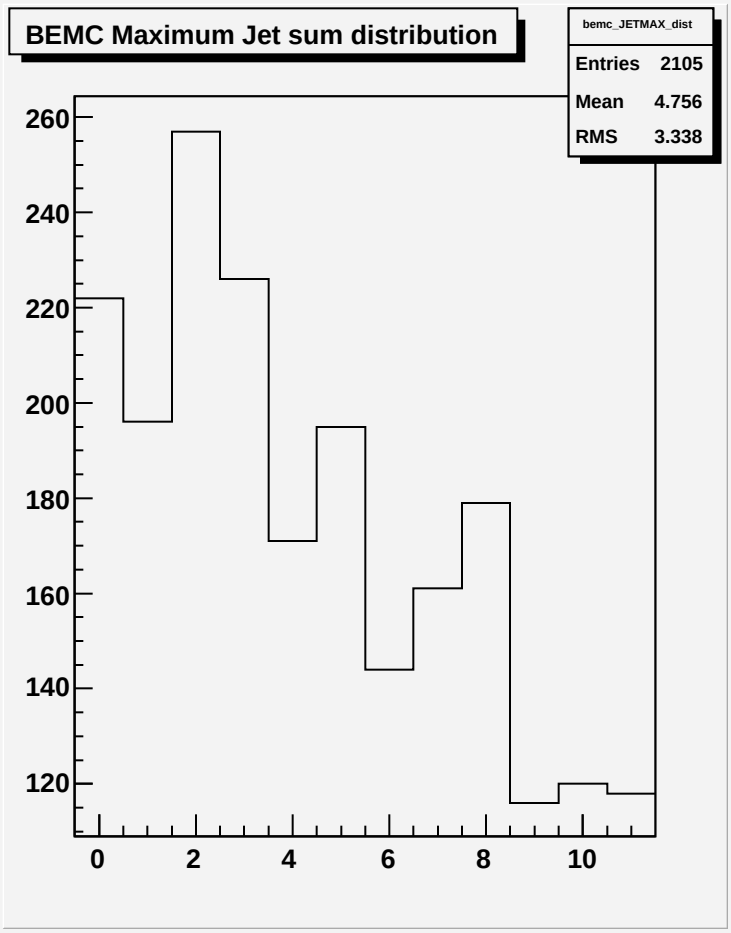

BEMC Maximum High Tower distribution
bemc_HTMAX_dist
Entries 1336
Mean 131
RMS 83.99

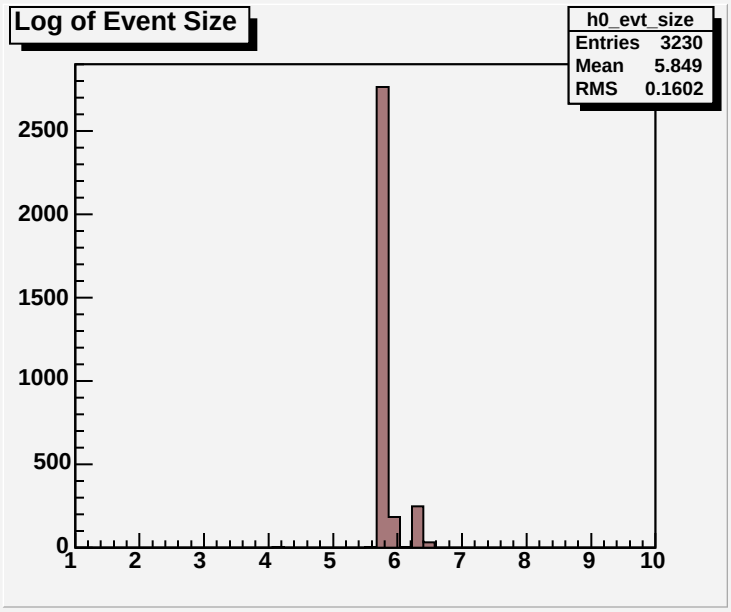

BEMC Maximum Patch Sum distribution
bemc_PAMAX_dist
Entries 1702
Mean 130.5
RMS 83.29

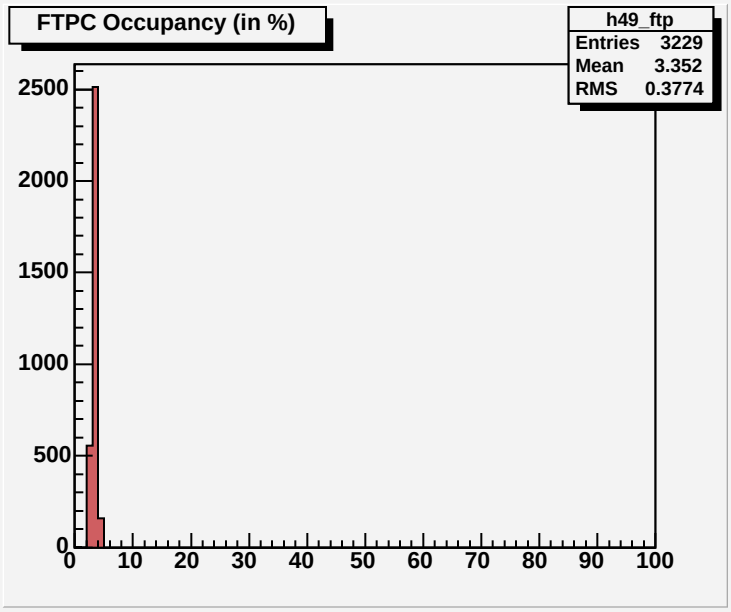

BEMC Jet sum pedestal
bemc_JET_ped
Entries 3552
Mean x 5.588
Mean y 26.93
RMS x 3.443
RMS y 1.288

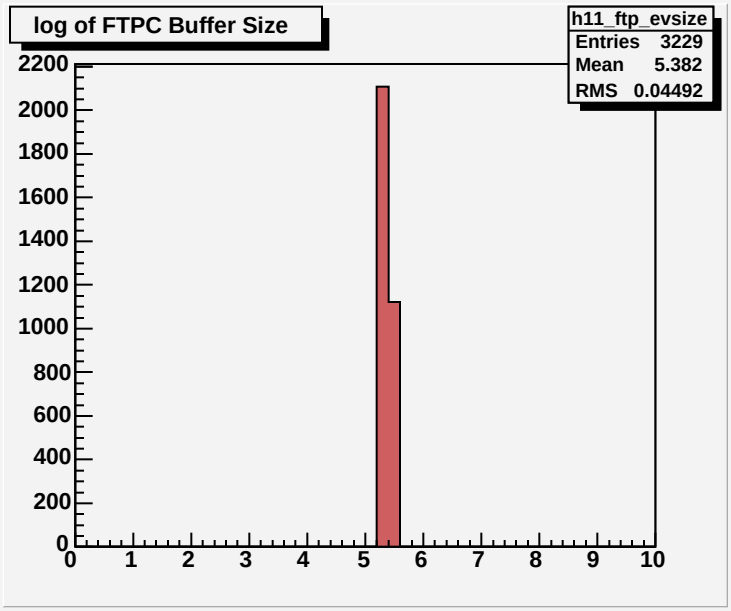

BEMC Jet sum spectrum
bemc_JET_spectra
Entries 38748
Mean x 5.504
Mean y 28.54
RMS x 3.452
RMS y 7.793

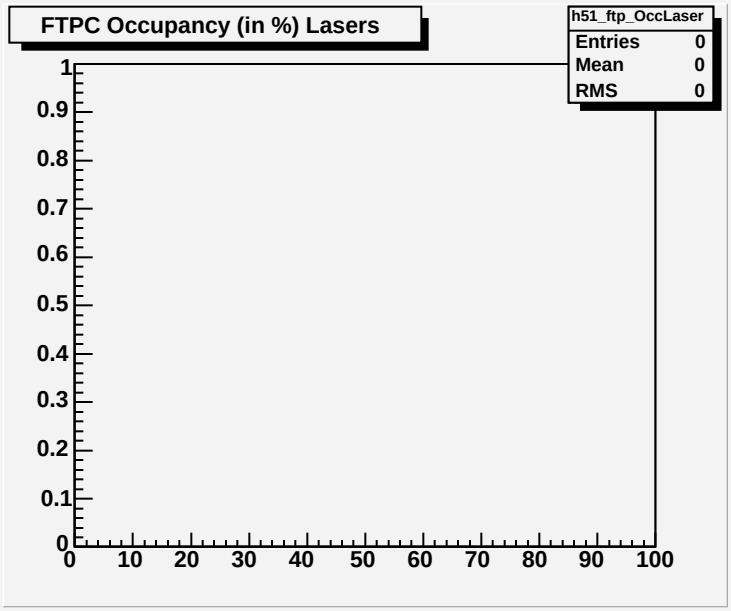

BEMC Maximum Jet sum spectrum
bemc_JETMAX_spectra
Entries 3229
Mean x 4.54
Mean y 46.91
RMS x 3.407
RMS y 15

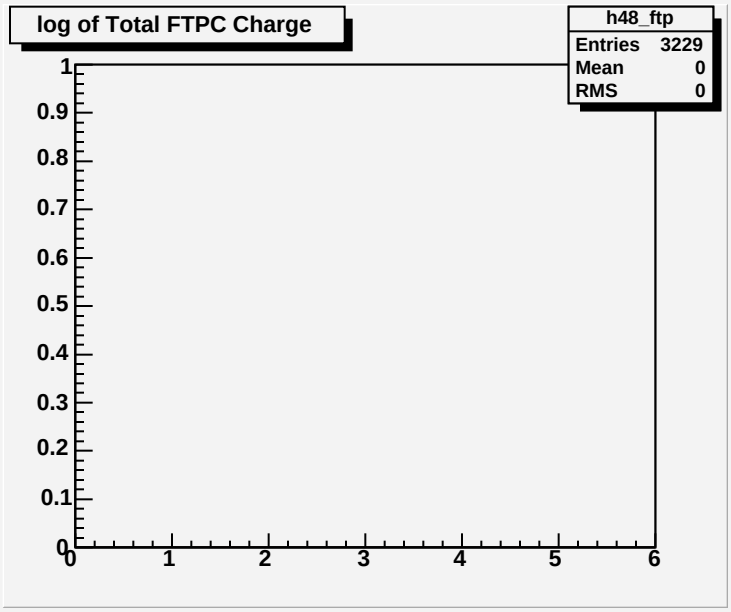

BEMC Maximum Jet sum distribution
bemc_JETMAX_dist
Entries 2105
Mean 4.756
RMS 3.338

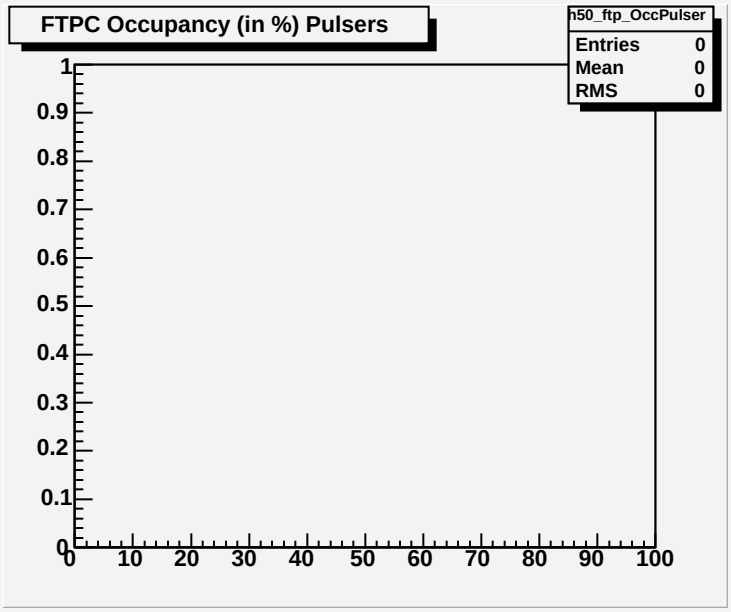

Log of Event Size
h0_evt_size
Entries 3230
Mean 5.849
RMS 0.1602

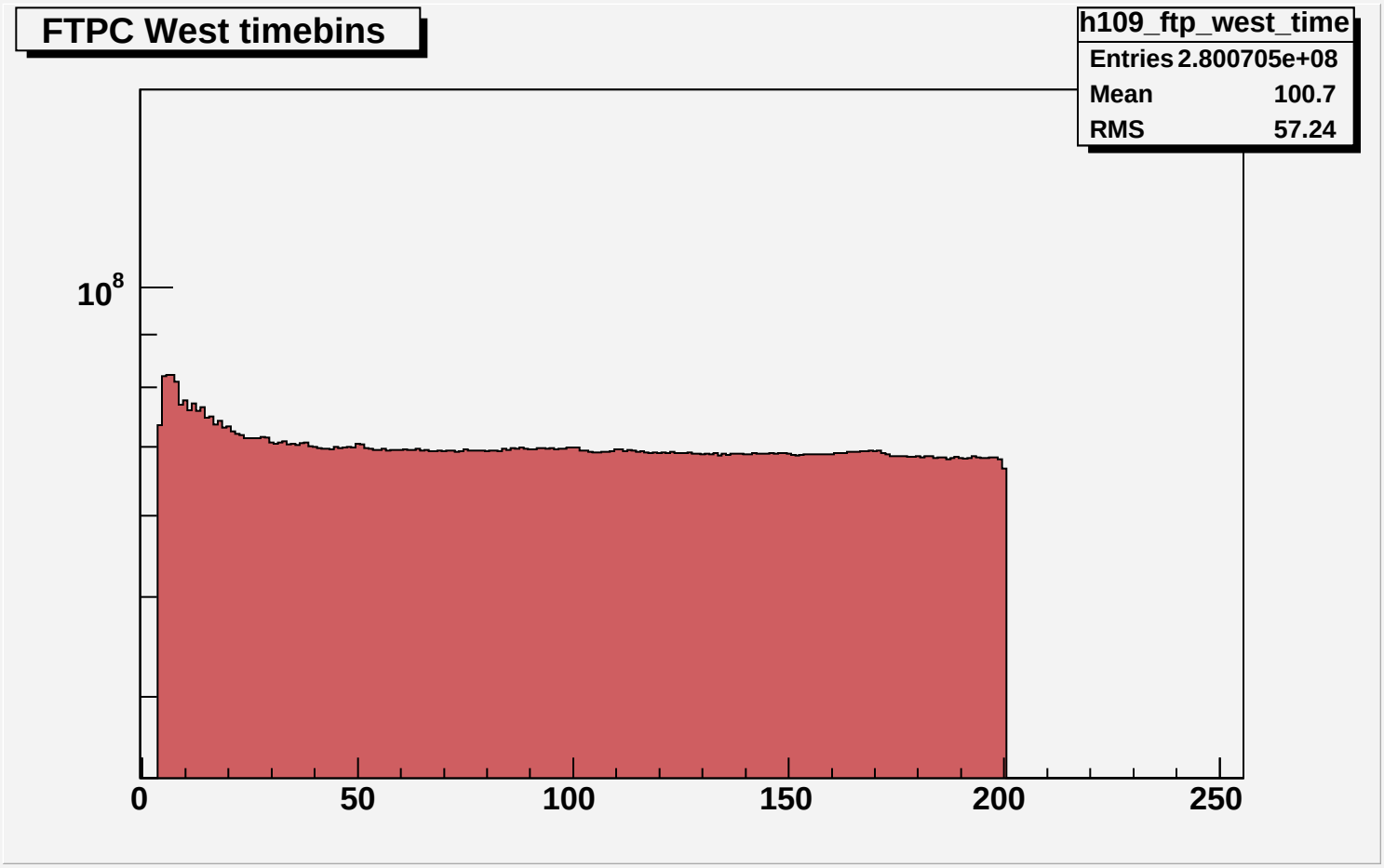

FTPC Occupancy (in %)
h49_ftp
Entries 3229
Mean 3.352
RMS 0.3774

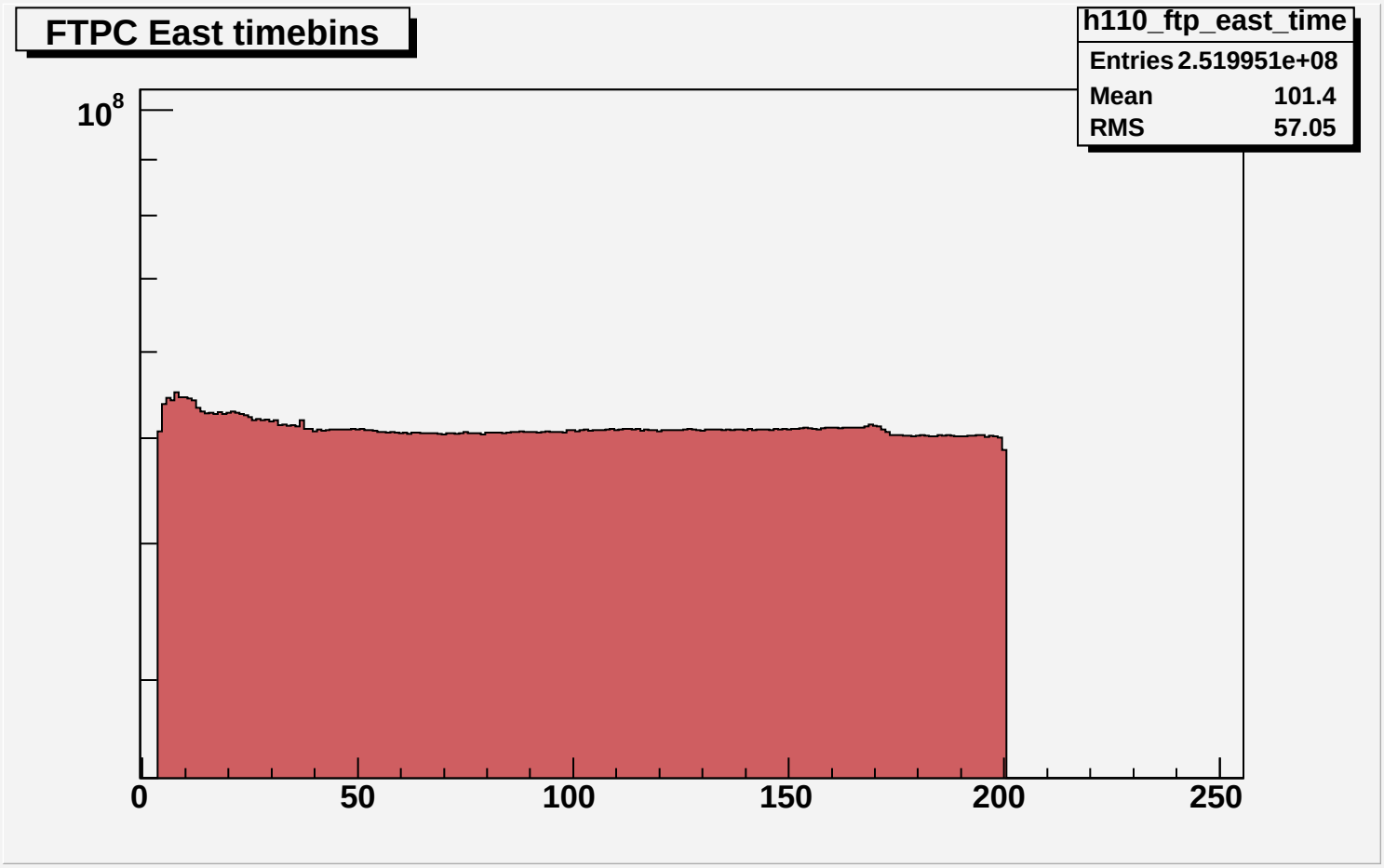

log of FTPC Buffer Size
h11_ftp_evsize
Entries 3229
Mean 5.382
RMS 0.04492

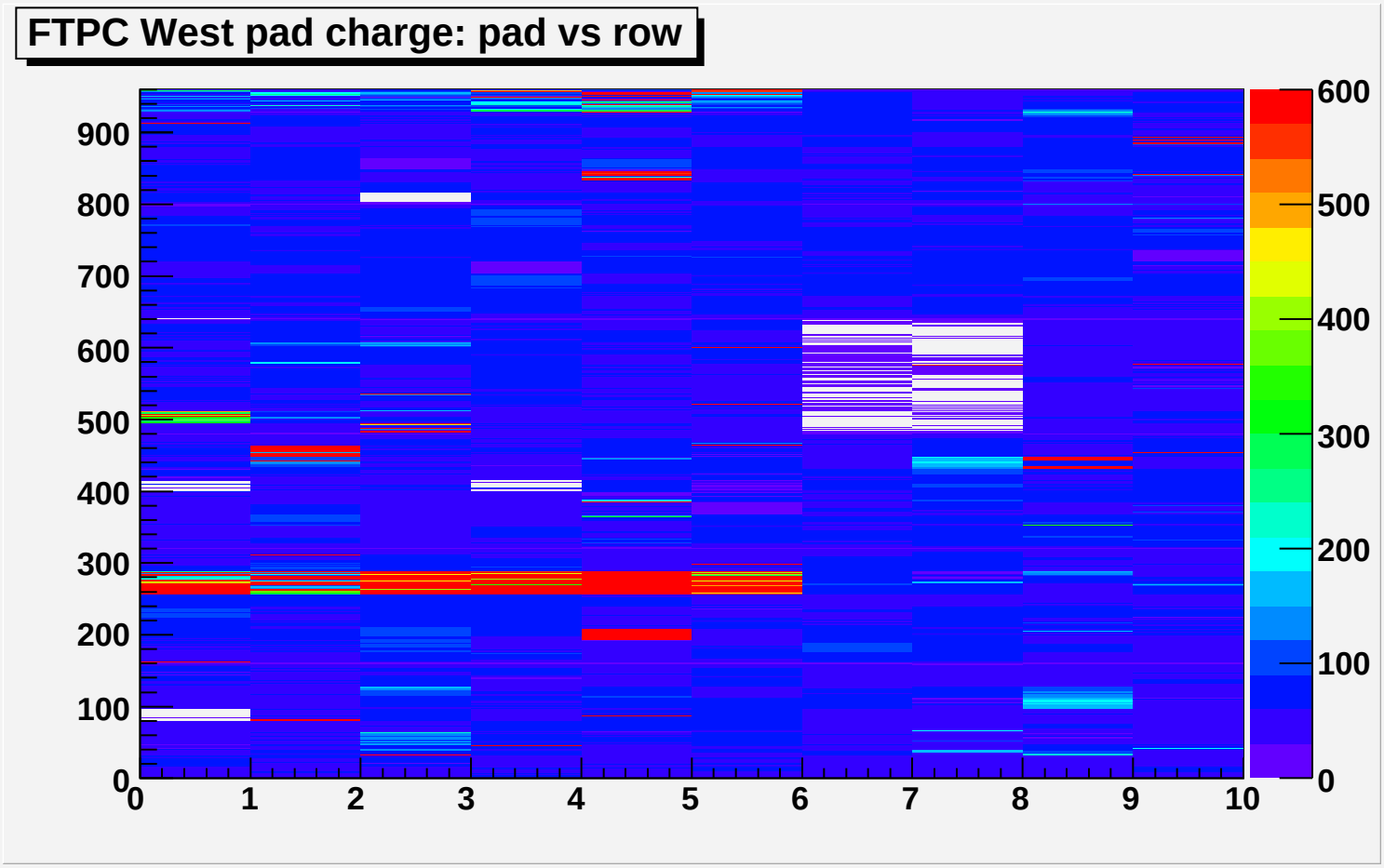

FTPC Occupancy (in %) Lasers
h51_ftp_OccLaser
Entries 0
Mean 0
RMS 0

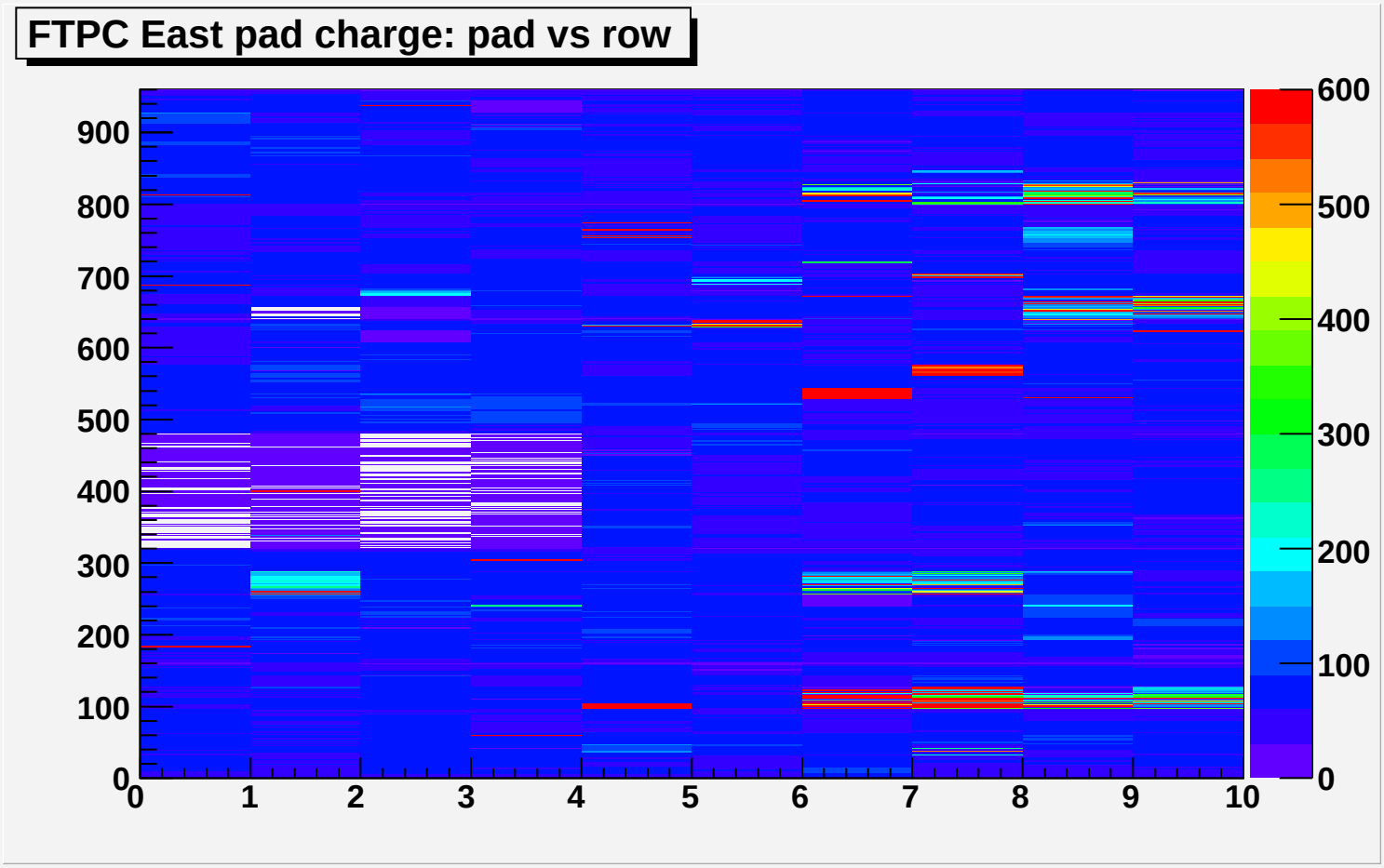

log of Total FTPC Charge
h48_ftp
Entries 3229
Mean 0
RMS 0

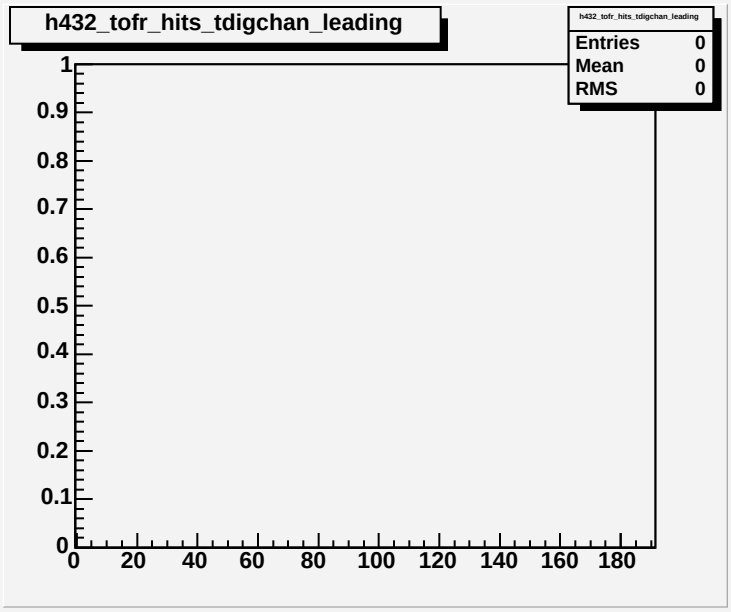

FTPC Occupancy (in %) Pulsers
h50_ftp_OccPulser
Entries 0
Mean 0
RMS 0

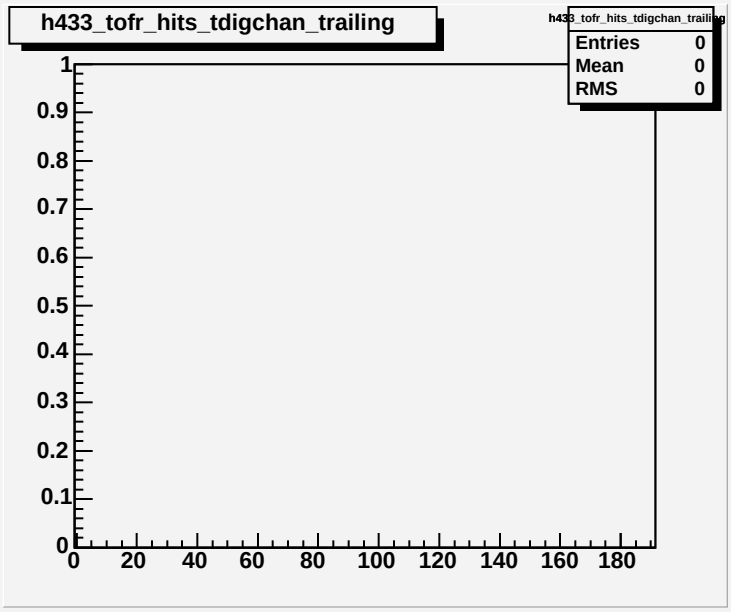

FTPC West timebins
h109_ftp_west_time
Entries 2.800705e+08
Mean 100.7
RMS 57.24
10^8
0
50
100
150
200
250

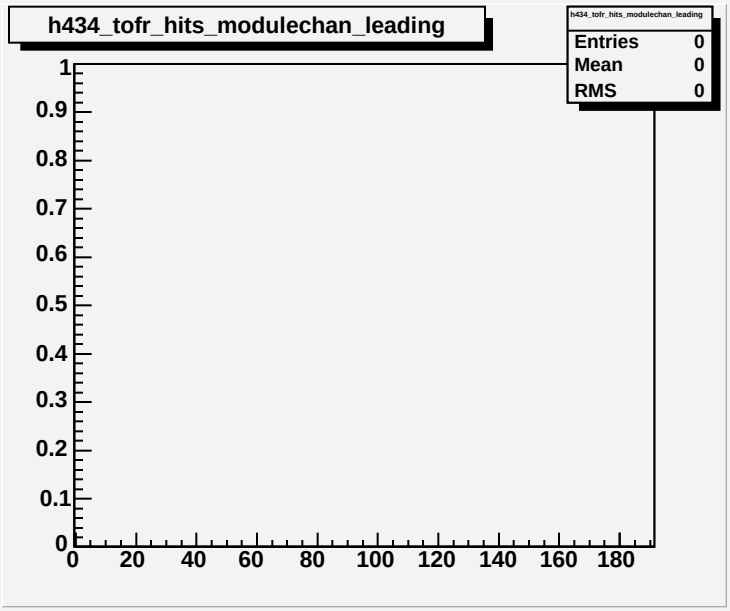

FTPC East timebins
h110_ftp_east_time
Entries 2.519951e+08
Mean 101.4
RMS 57.05
10^8
0
50
100
150
200
250

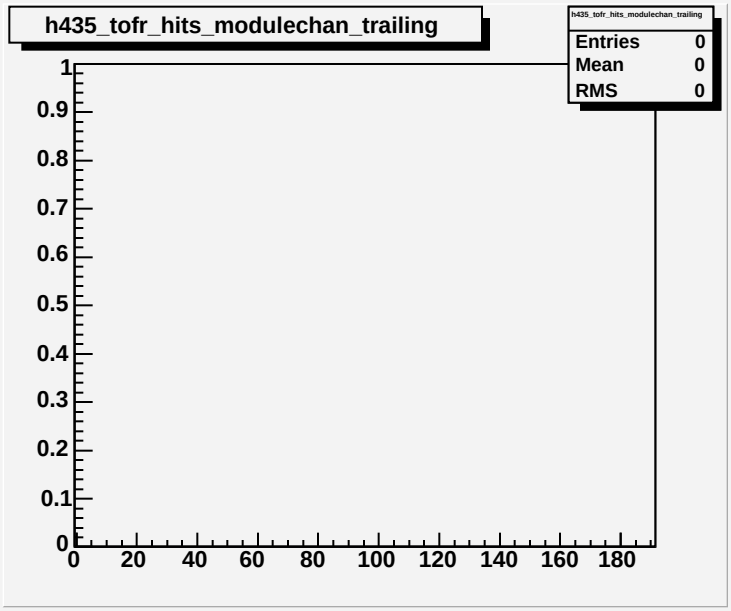

FTPC West pad charge: pad vs row
900
800
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
9
10
600
500
400
300
200
100
0


FTPC East pad charge: pad vs row
900
800
700
600
500
400
300
200
100
0
0
1
2
3
4
5
6
7
8
9
10
600
500
400
300
200
100
0


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
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


h435_tofr_hits_modulechan_trailing
h435_tofr_hits_modulechan_trailing
Entries 0
Mean 0
RMS 0
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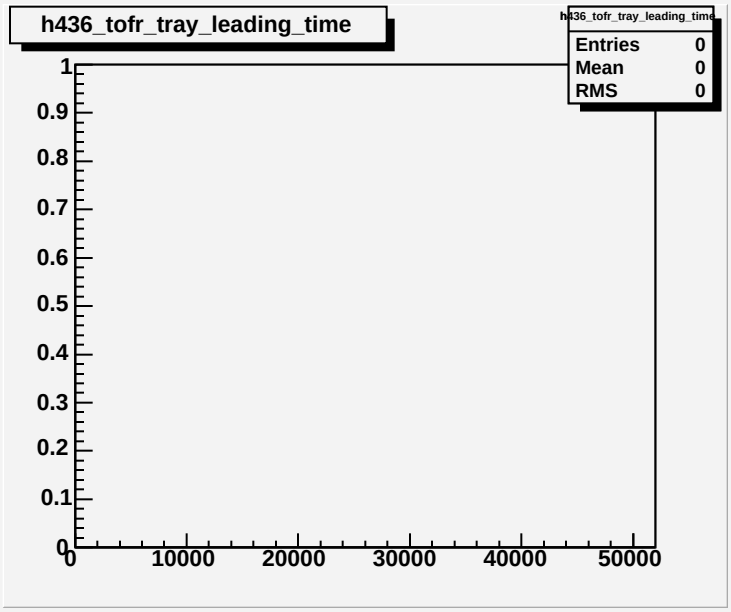
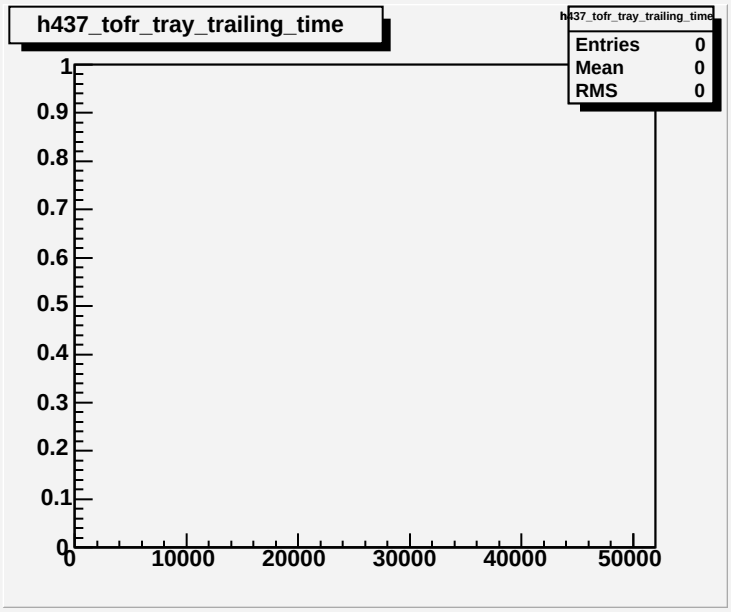
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180


h436_tofr_tray_leading_time
h436_tofr_tray_leading_time
Entries 0
Mean 0
RMS 0
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


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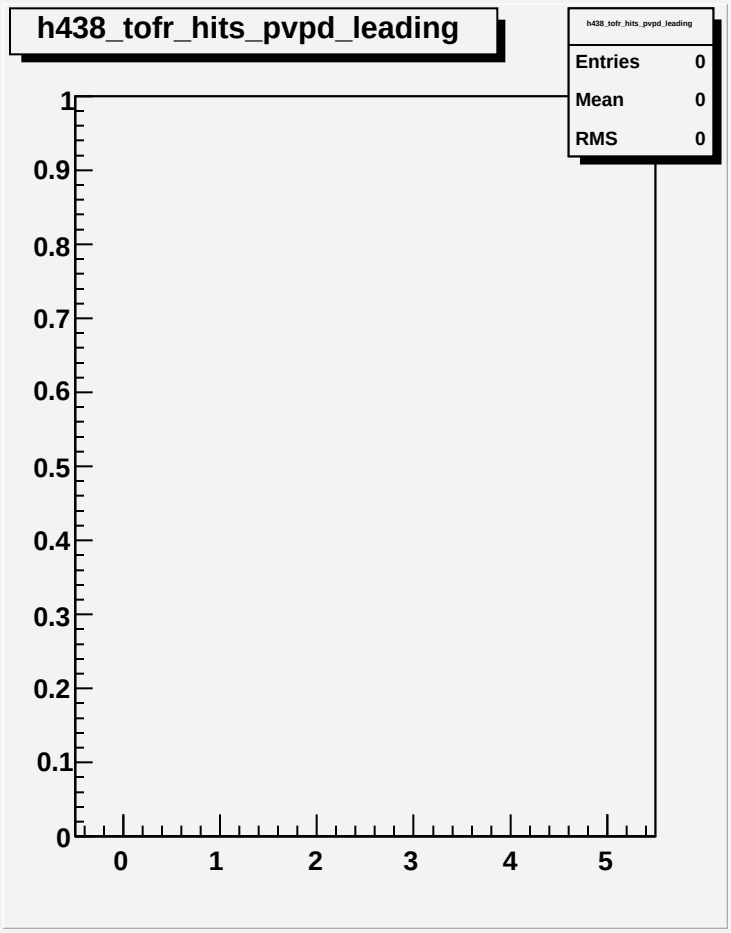
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000


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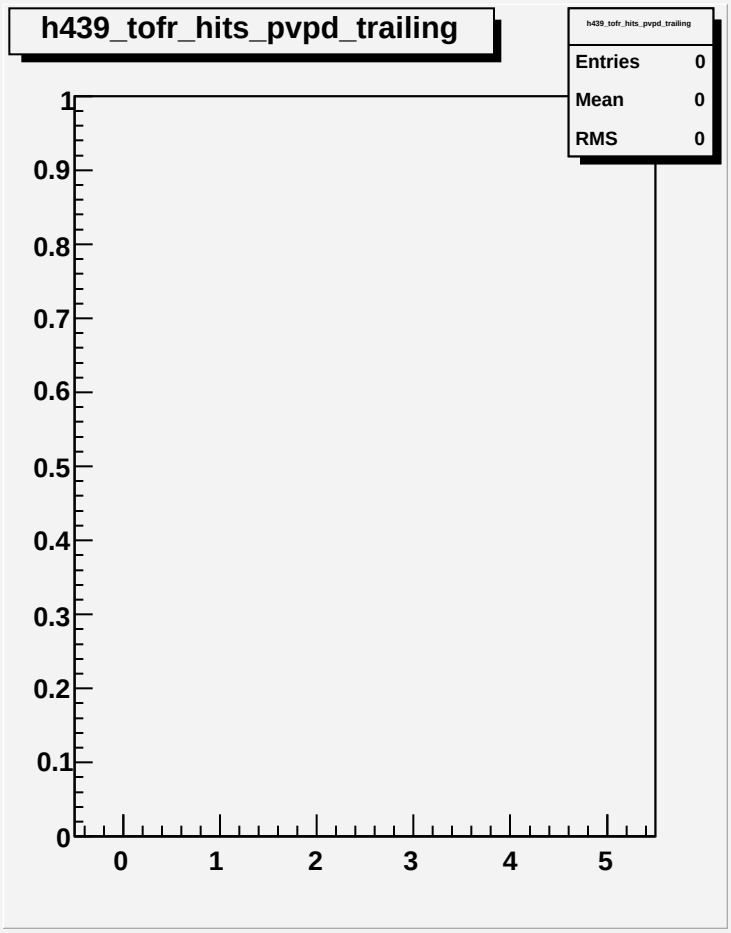
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5


h439_tofr_hits_pvpd_trailing
h439_tofr_hits_pvpd_trailing
Entries 0
Mean 0
RMS 0
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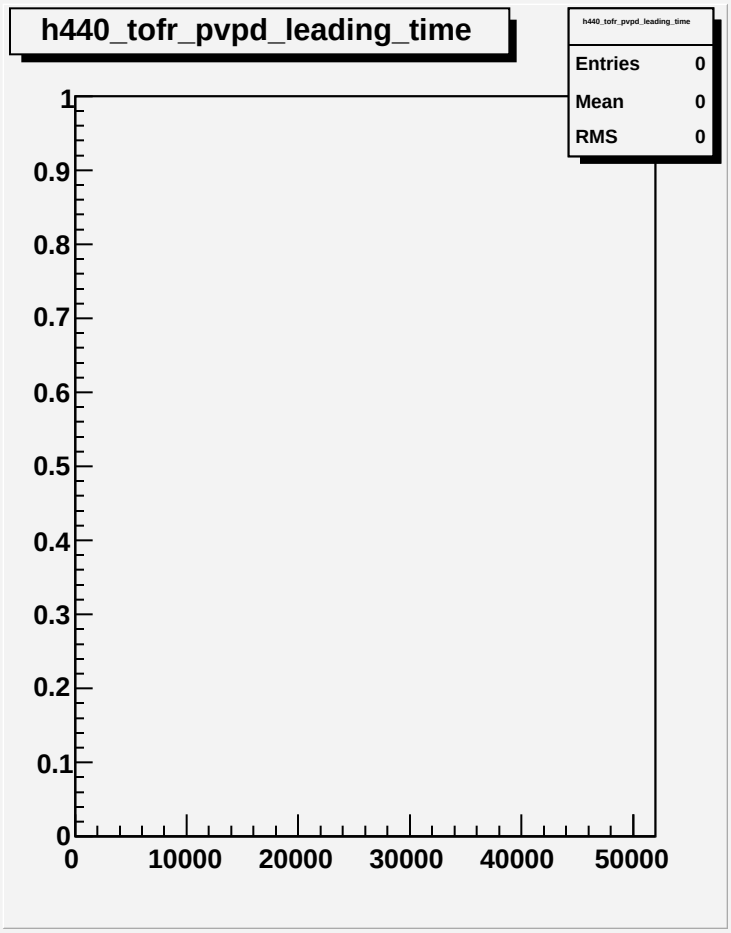
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5


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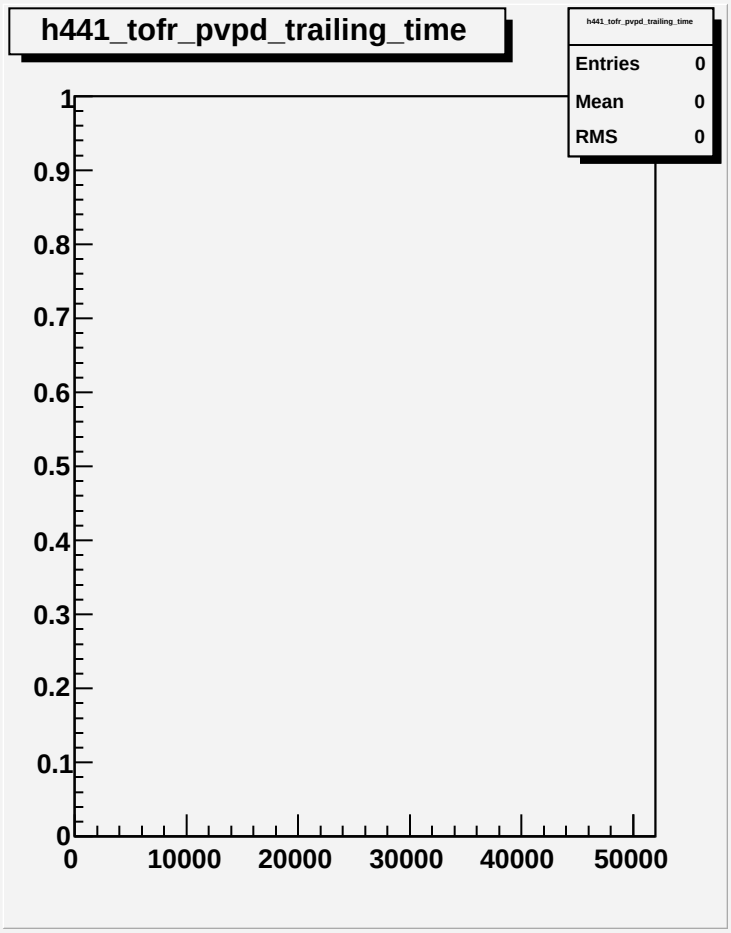
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000


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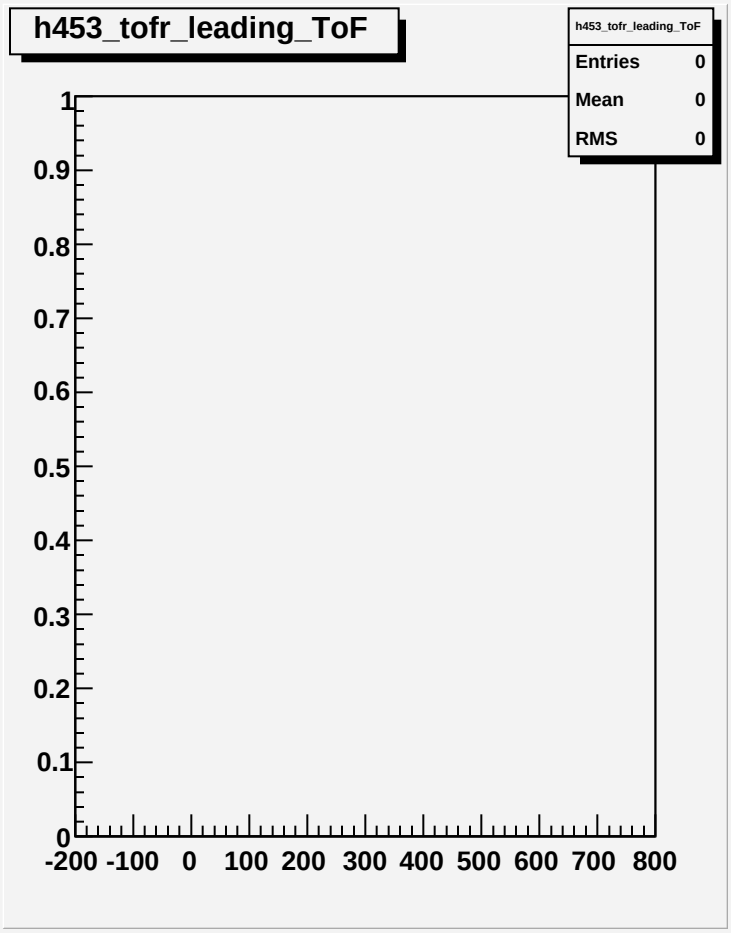
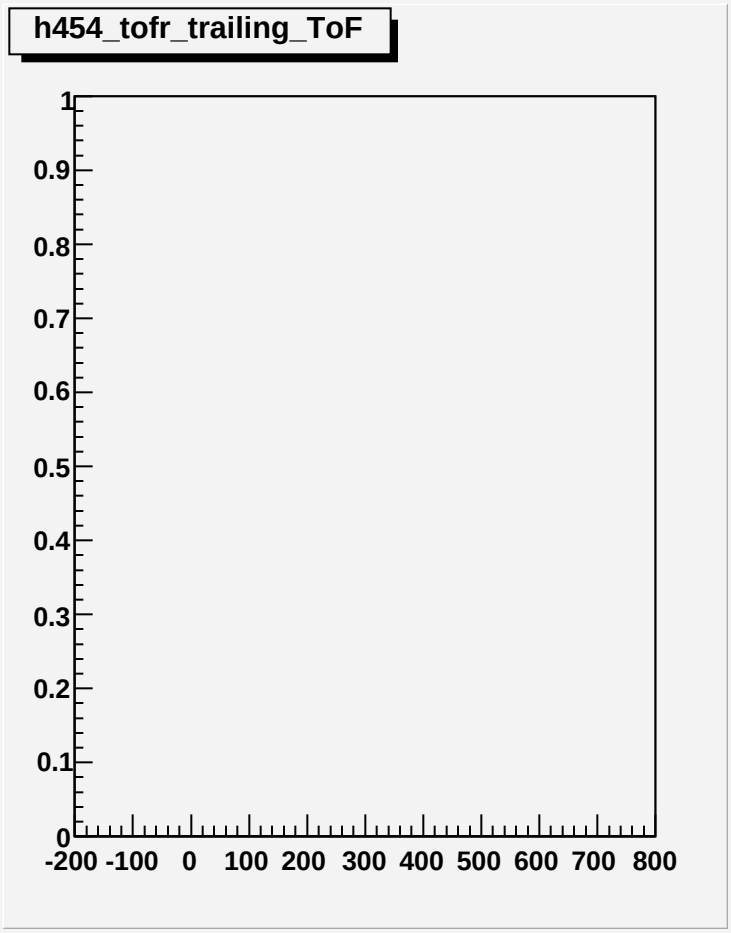
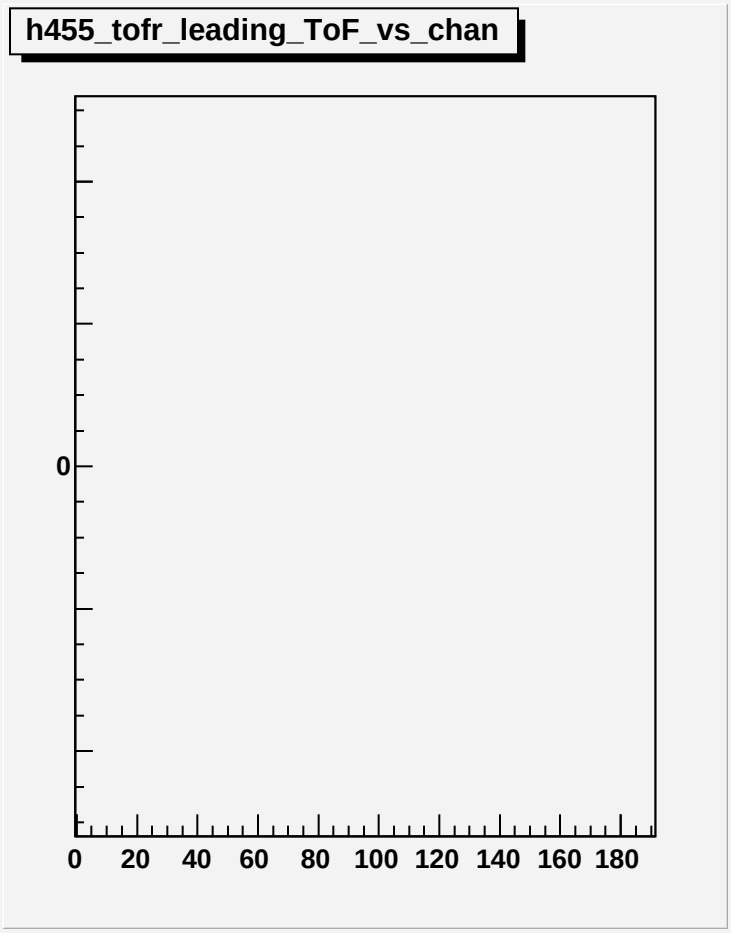
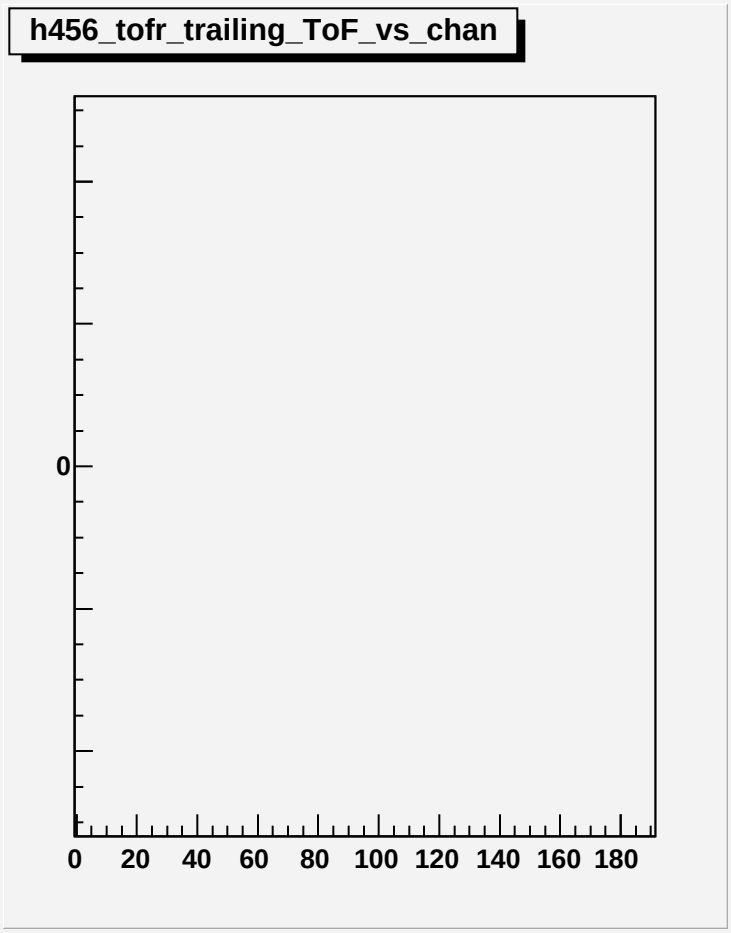
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000

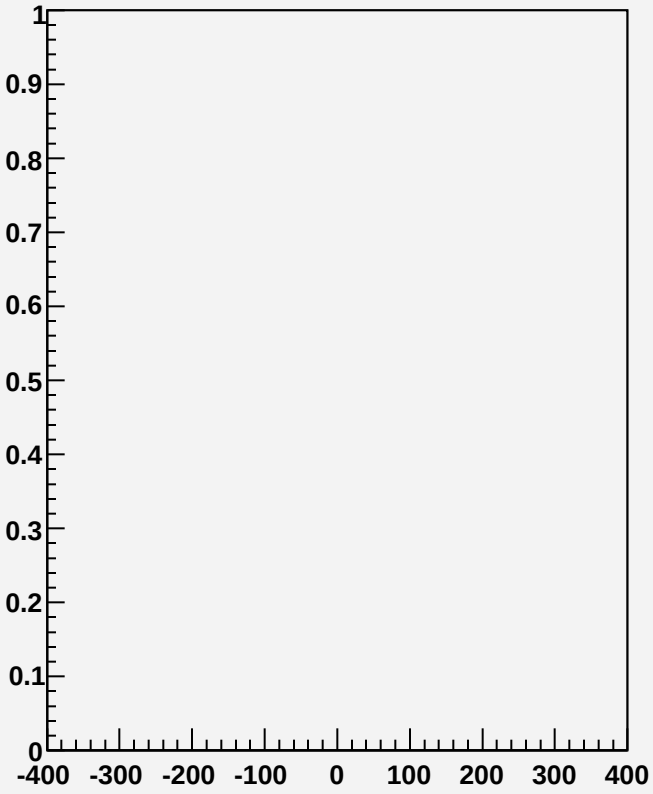

h453_tofr_leading_ToF
h453_tofr_leading_ToF
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-200 -100 0 100 200 300 400 500 600 700 800


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

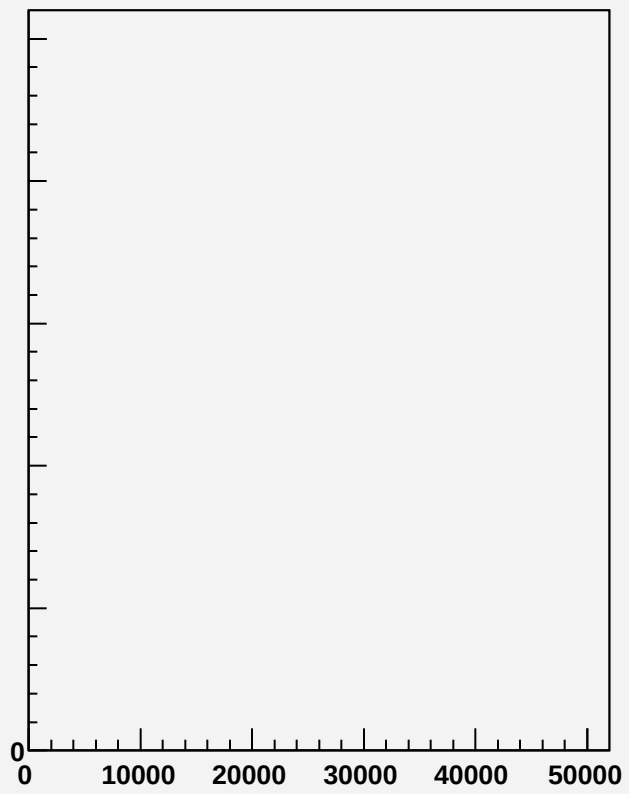

h455_tofr_leading_ToF_vs_chan
0
0 20 40 60 80 100 120 140 160 180


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

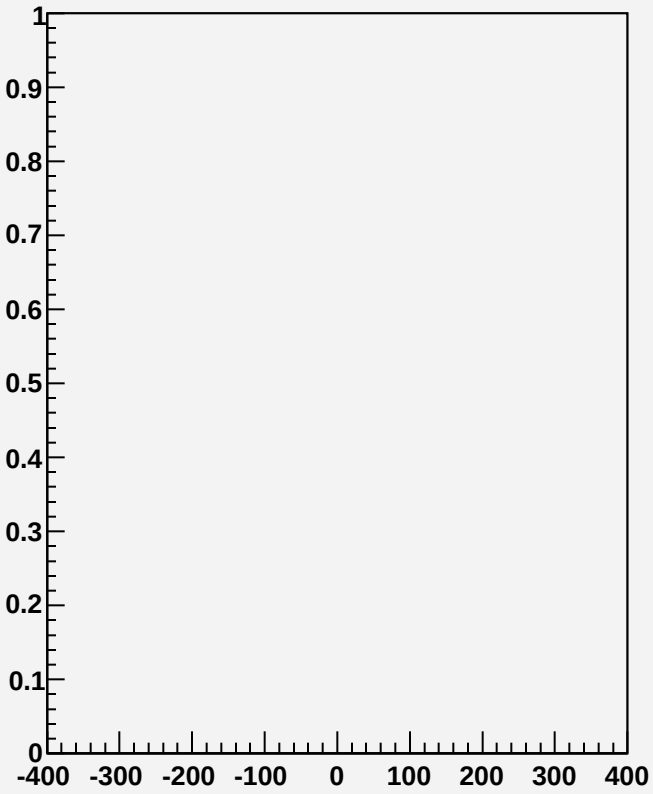
h457_tofr_pvpd_le_t0west_t0east



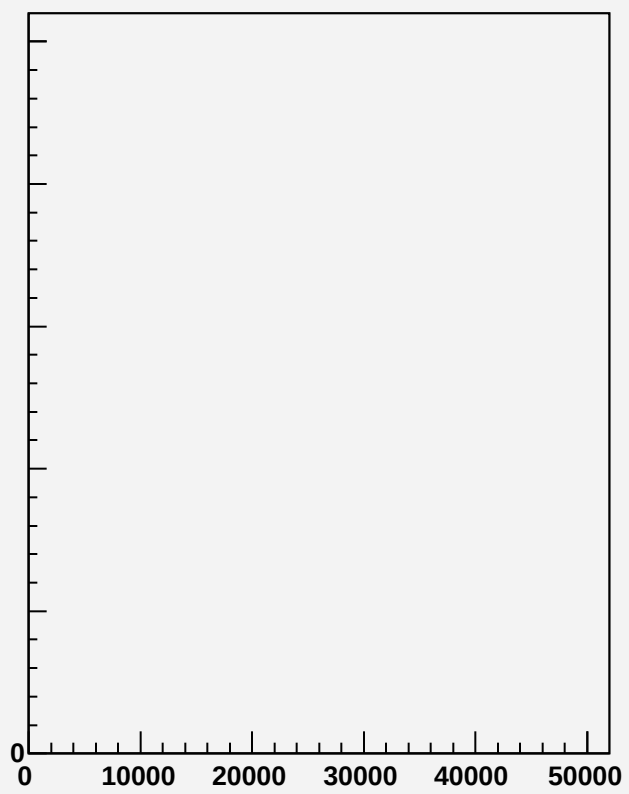
h458_tofr_pvpd_le_t0west_vs_t0east



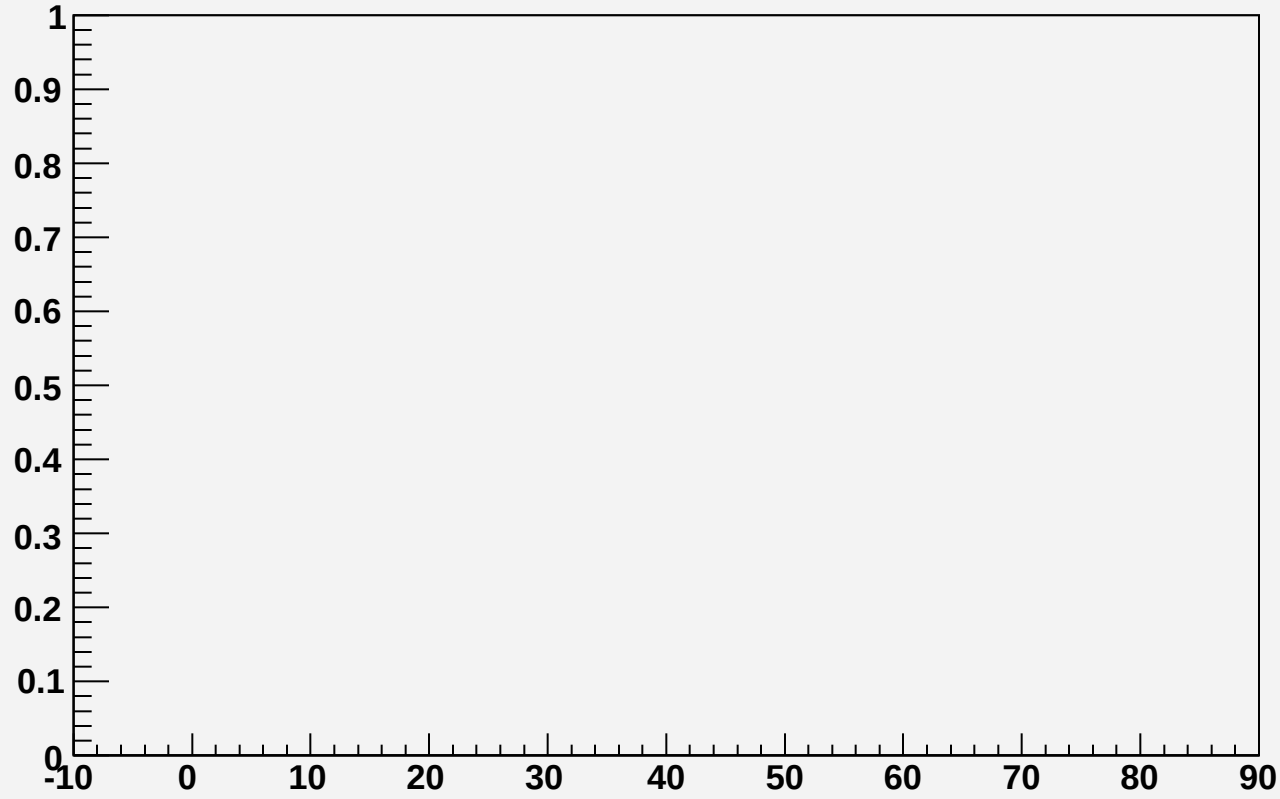
h459_tofr_pvpd_te_t0west_t0east



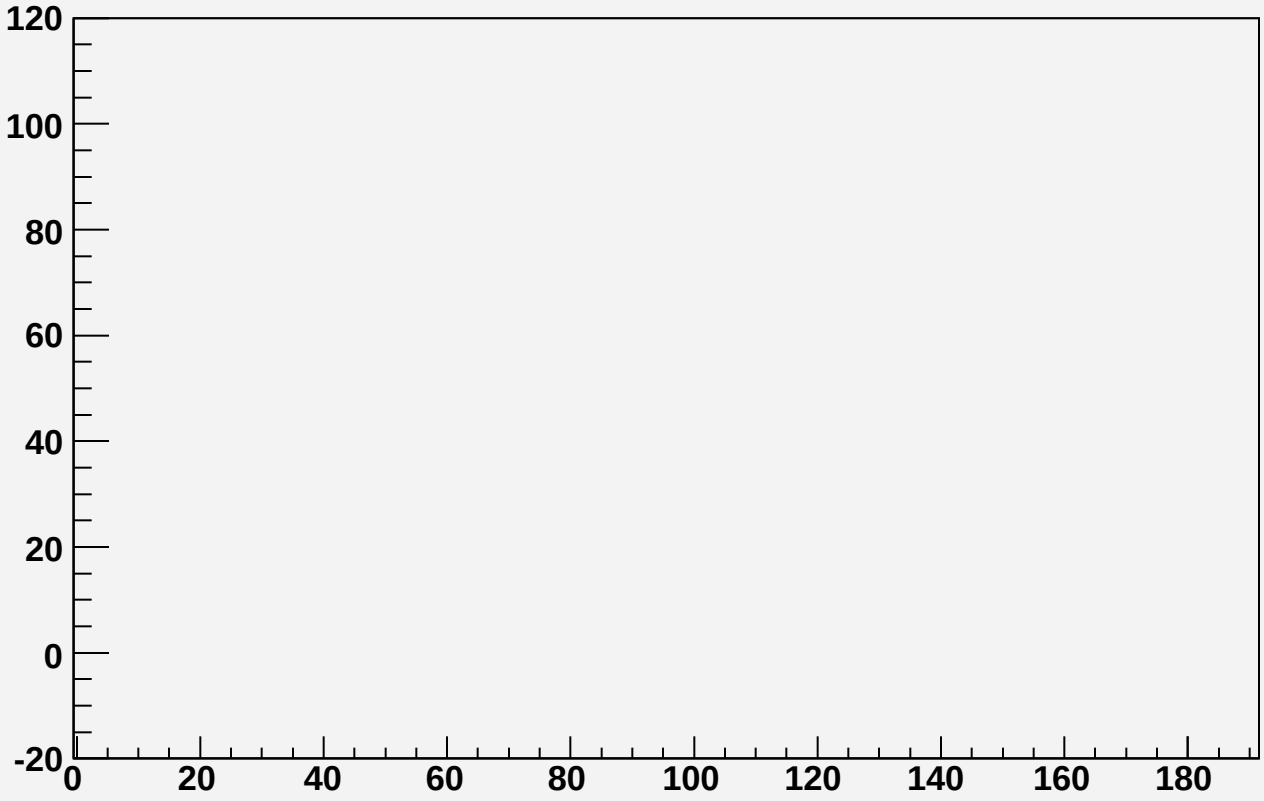
h460_tofr_pvpd_te_t0west_vs_t0east

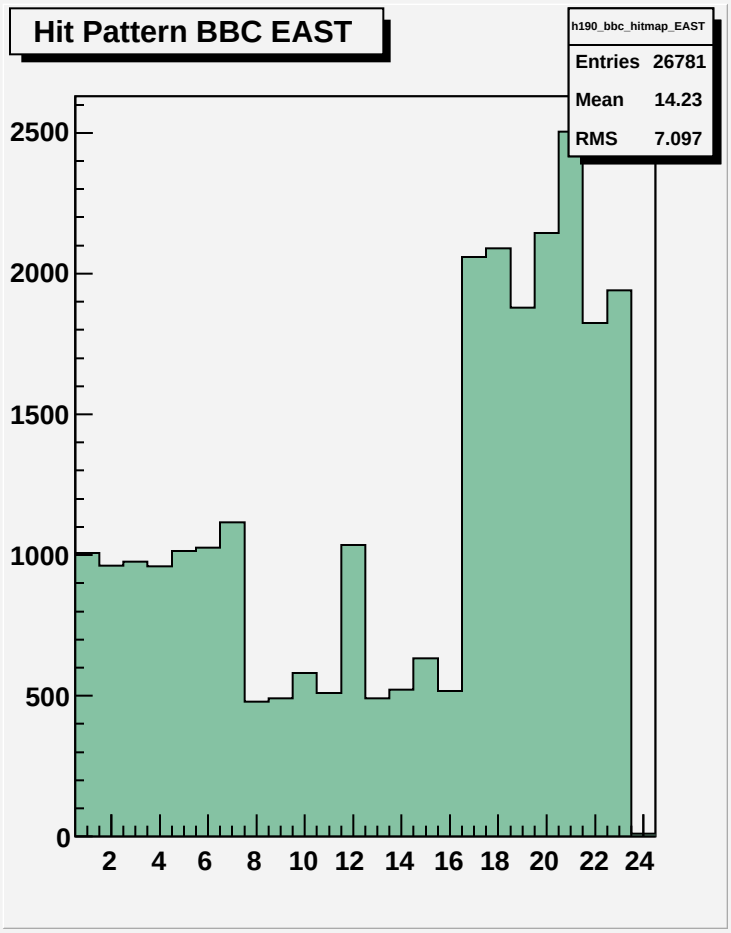


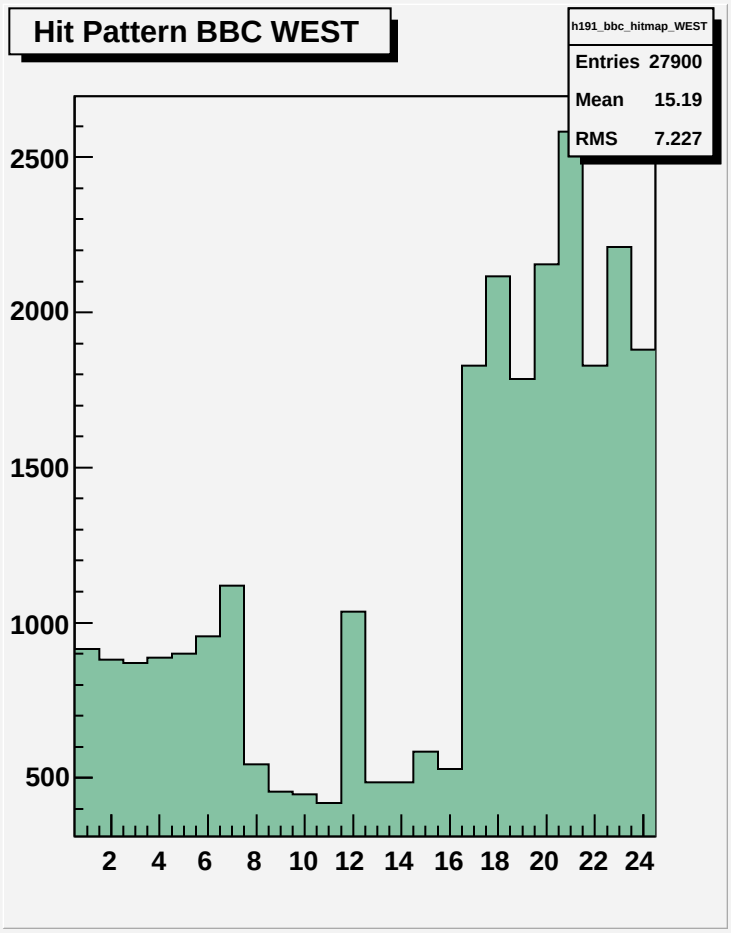
h461_tofr_ToT

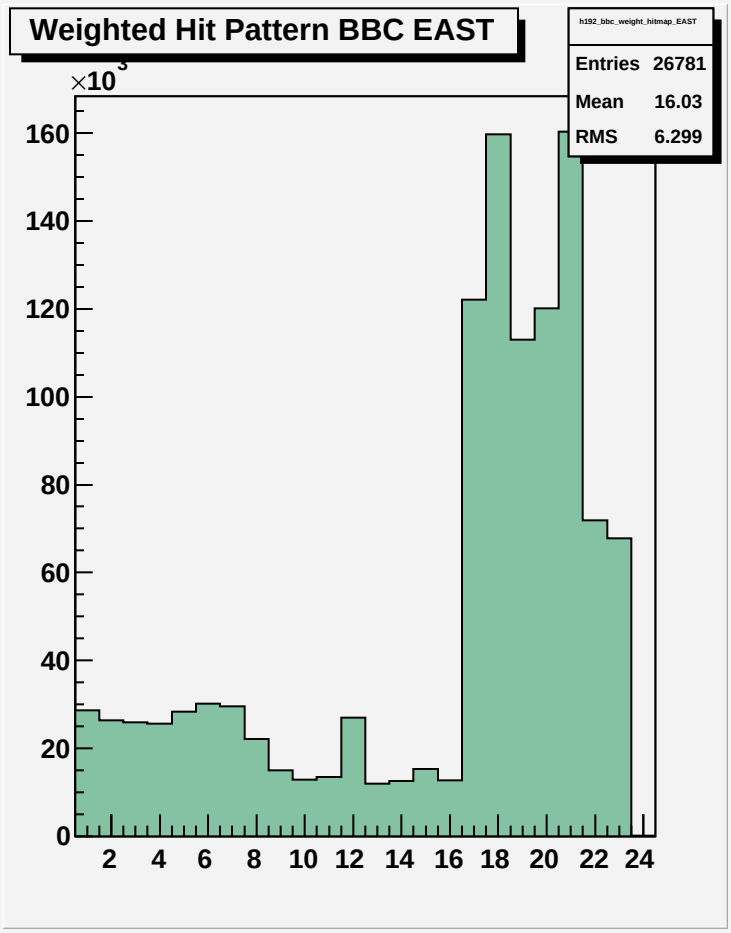


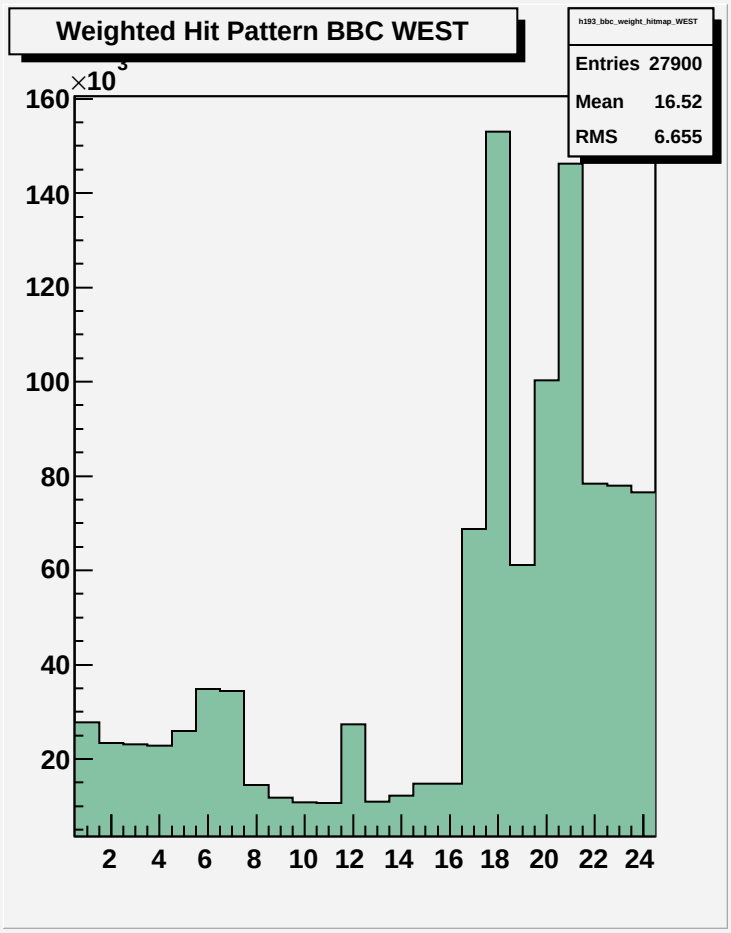
h462_tofr_ToT_vs_chan




Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 26781
Mean 14.23
RMS 7.097
2500
2000
1500
1000
500
0
2 4 6 8 10 12 14 16 18 20 22 24


Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 27900
Mean 15.19
RMS 7.227
2500
2000
1500
1000
500
2 4 6 8 10 12 14 16 18 20 22 24


Weighted Hit Pattern BBC EAST
h192_bbc_weight_hitmap_EAST
Entries 26781
Mean 16.03
RMS 6.299
×10^3
160
140
120
100
80
60
40
20
0
2 4 6 8 10 12 14 16 18 20 22 24


Weighted Hit Pattern BBC WEST
h193_bbc_weight_hitmap_WEST
Entries 27900
Mean 16.52
RMS 6.655
×10^3
160
140
120
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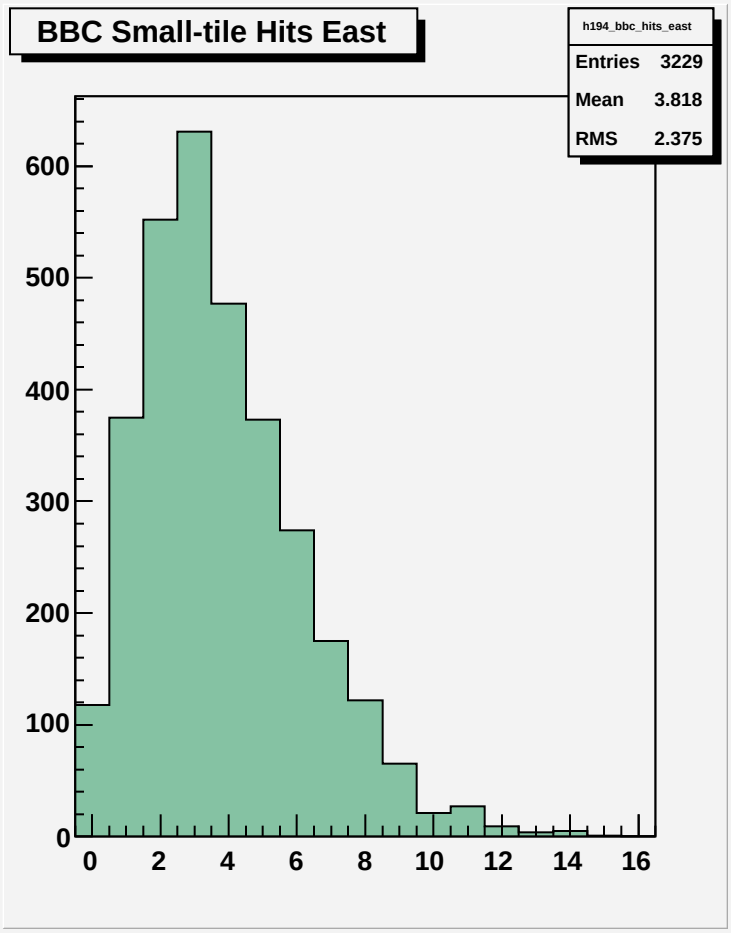
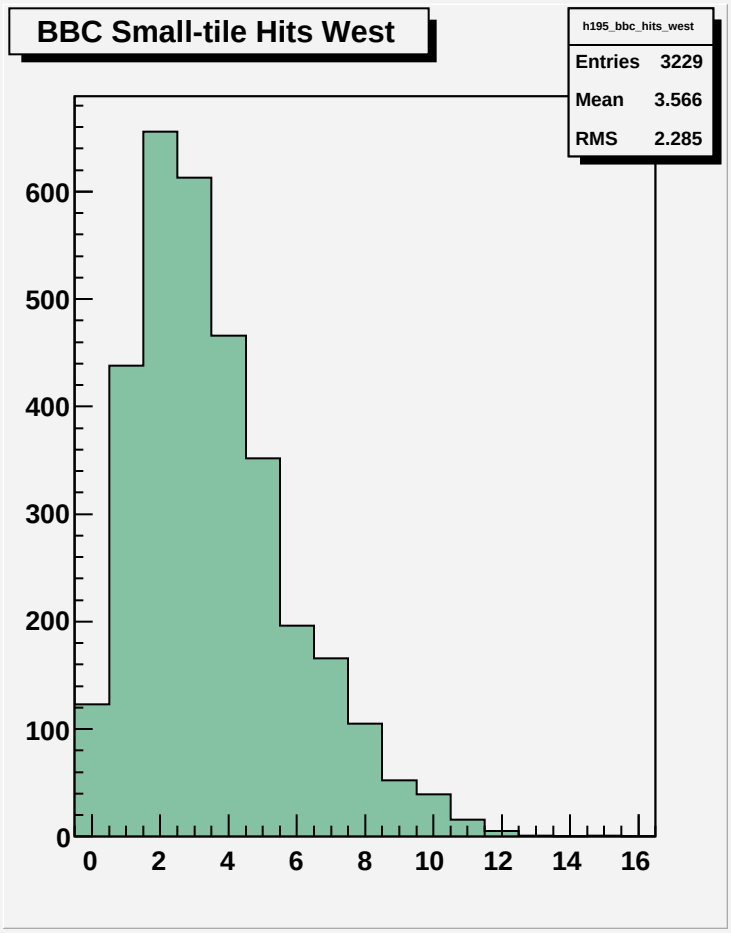
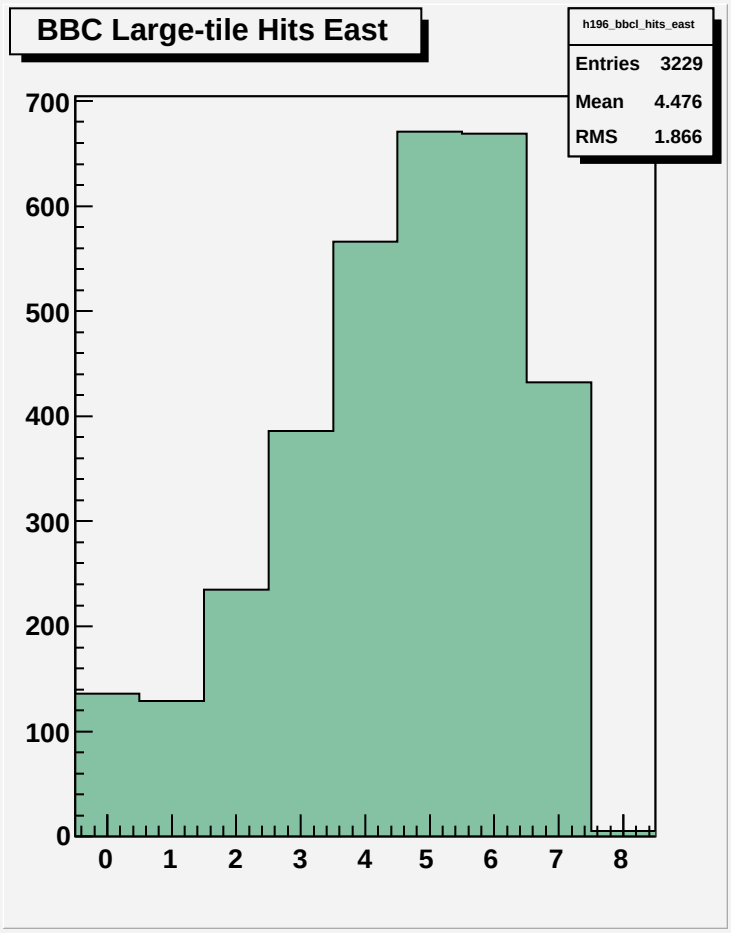
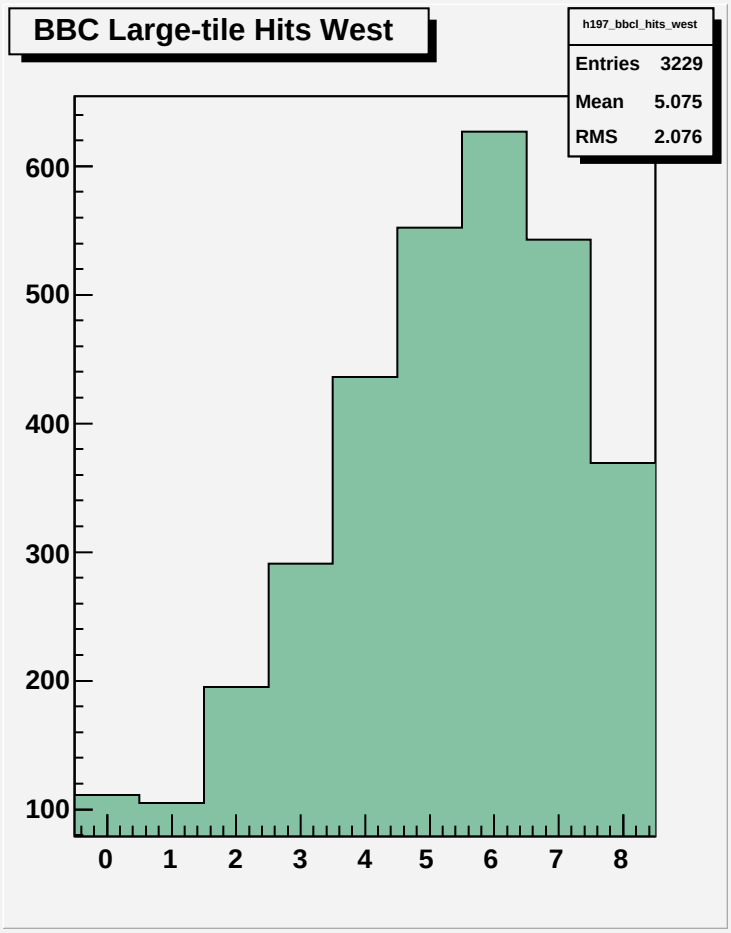
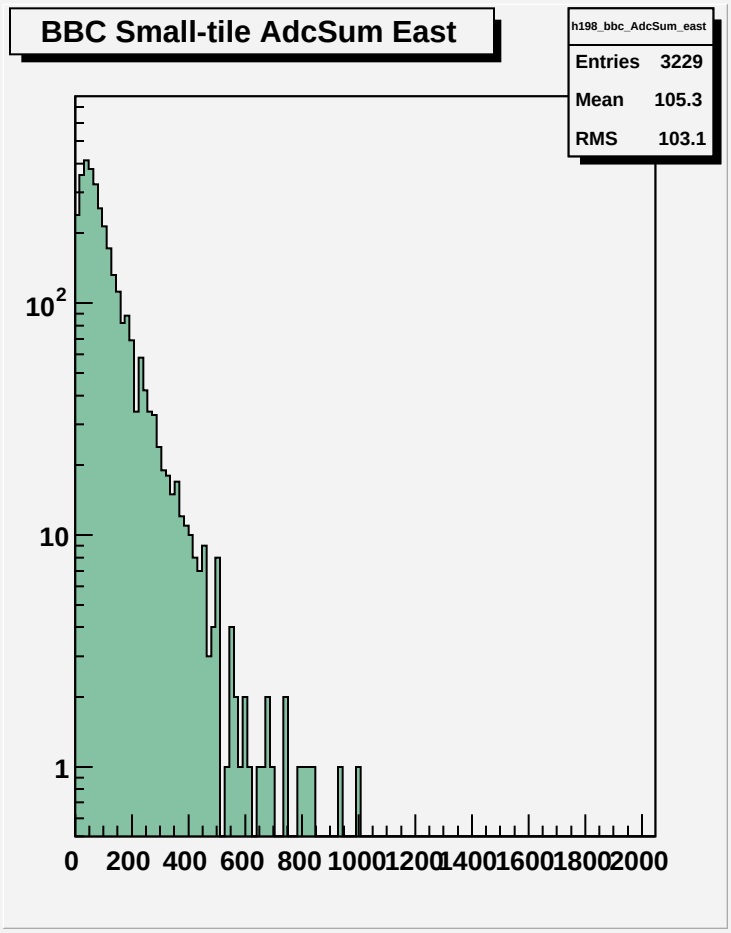
60
40
20
2 4 6 8 10 12 14 16 18 20 22 24

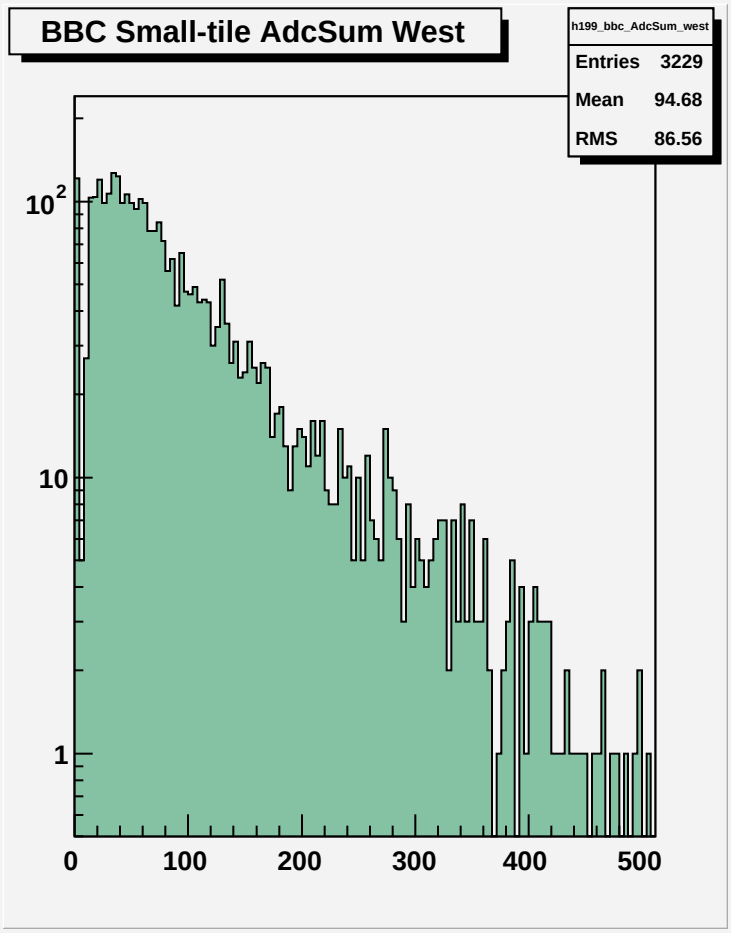

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 3229
Mean 3.818
RMS 2.375
0
100
200
300
400
500
600
0 2 4 6 8 10 12 14 16

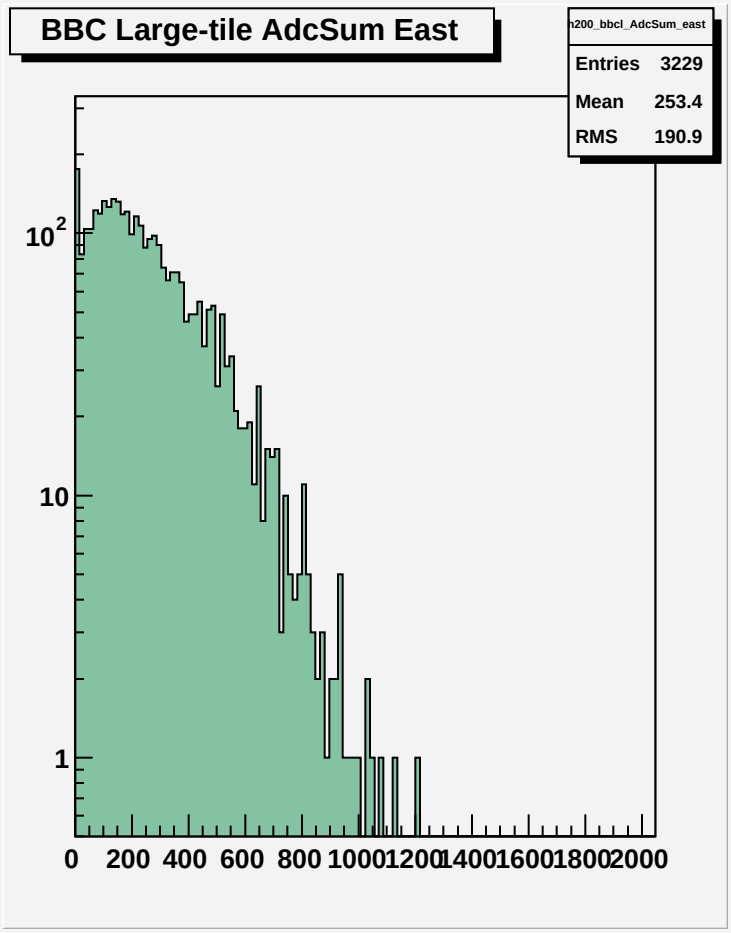

BBC Small-tile Hits West
h195_bbc_hits_west
Entries 3229
Mean 3.566
RMS 2.285
0
100
200
300
400
500
600
0 2 4 6 8 10 12 14 16

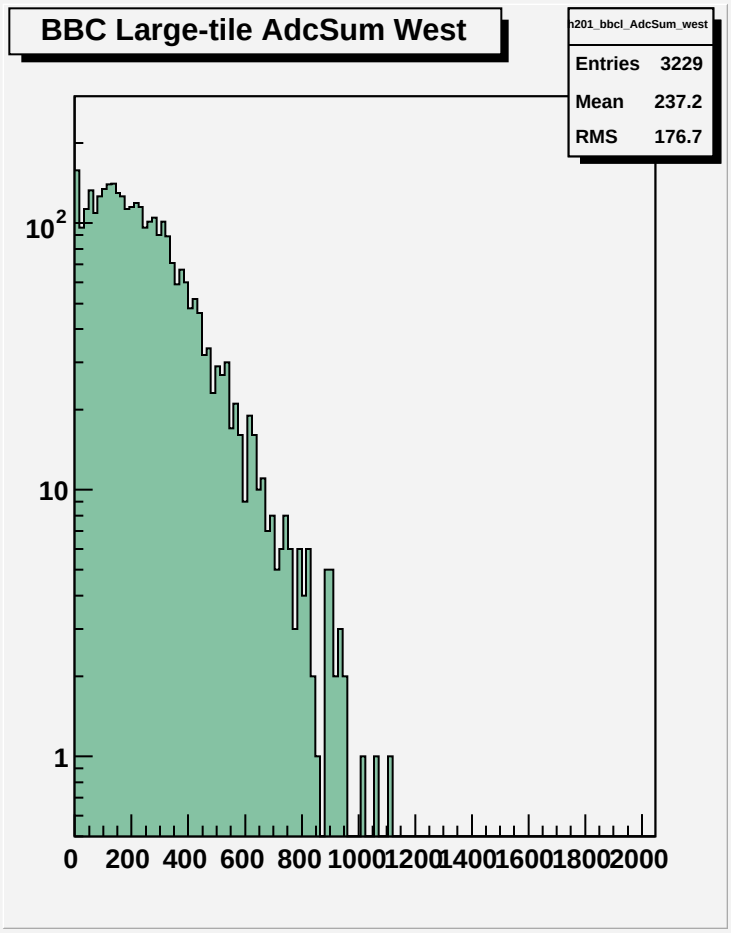

BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 3229
Mean 4.476
RMS 1.866
0
100
200
300
400
500
600
700
0 1 2 3 4 5 6 7 8

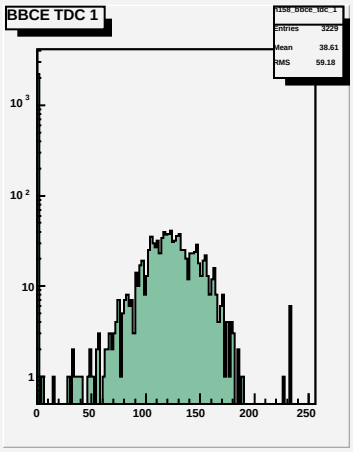

BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 3229
Mean 5.075
RMS 2.076
100
200
300
400
500
600
0 1 2 3 4 5 6 7 8

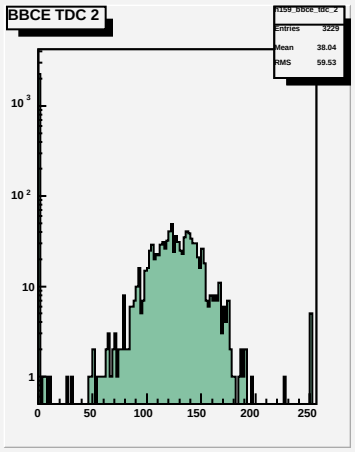

BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 3229
Mean 105.3
RMS 103.1
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000

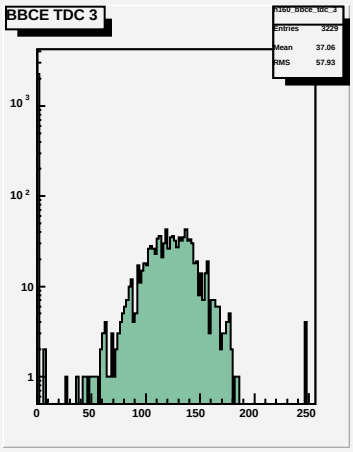

BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 3229
Mean 94.68
RMS 86.56
10^2
10
1
0 100 200 300 400 500

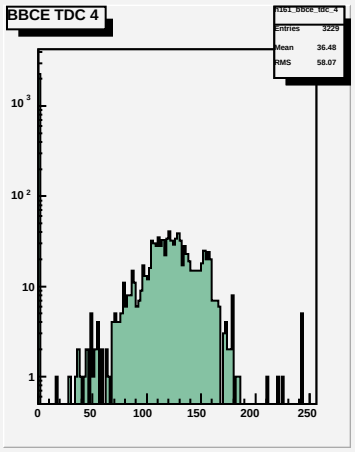

BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 3229
Mean 253.4
RMS 190.9
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000

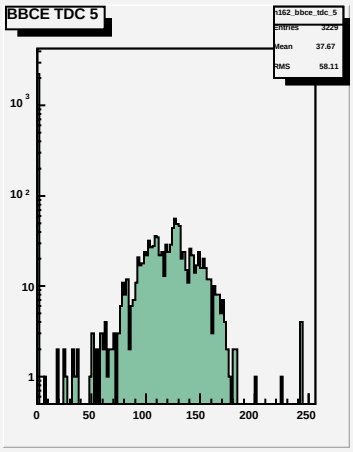

BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 3229
Mean 237.2
RMS 176.7
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000

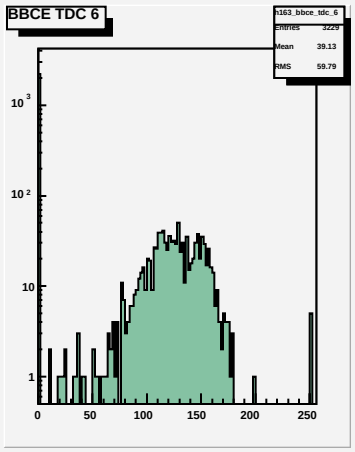

BBCE TDC 1
h158_bbce_tdc_1
Entries 3229
Mean 38.61
RMS 59.18

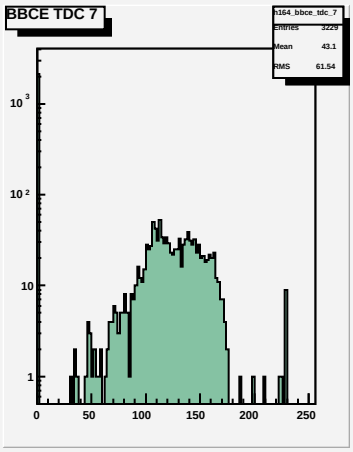

BBCE TDC 2
h159_bbce_tdc_2
Entries 3229
Mean 38.04
RMS 59.53


BBCE TDC 3
h160_bbce_tdc_3
Entries 3229
Mean 37.06
RMS 57.93


BBCE TDC 4
h161_bbce_tdc_4
Entries 3229
Mean 36.48
RMS 58.07


BBCE TDC 5
h162_bbce_tdc_5
Entries 3229
Mean 37.67
RMS 58.11


BBCE TDC 6
h163_bbce_tdc_6
Entries 3229
Mean 39.13
RMS 59.79


BBCE TDC 7
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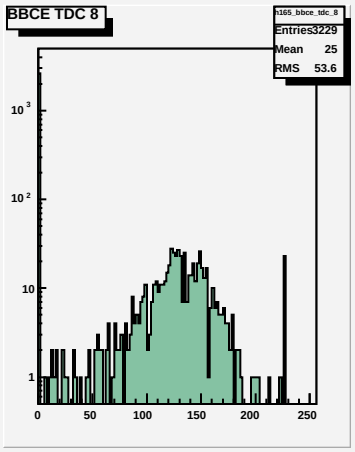
Entries 3229
Mean 43.1
RMS 61.54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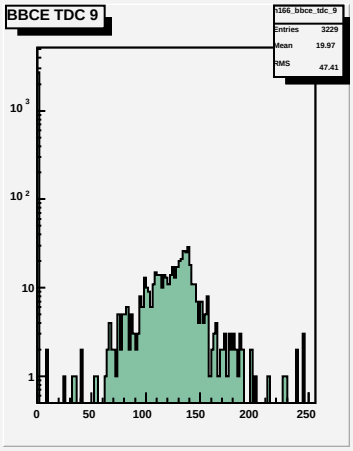
Entries 3229
Mean 25
RMS 53.6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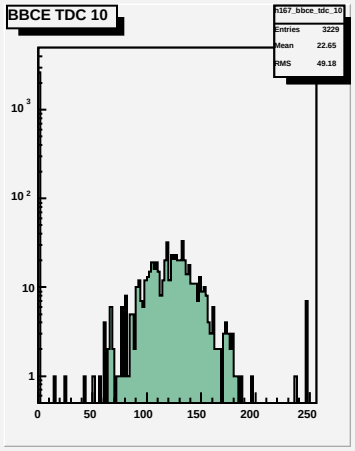
Entries 3229
Mean 19.97
RMS 47.41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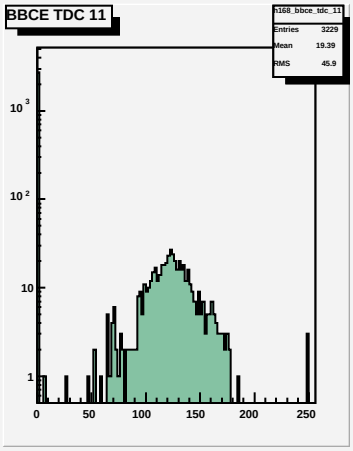
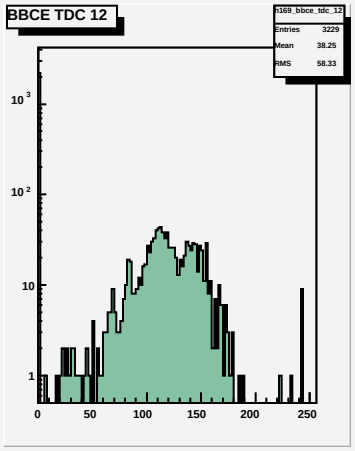
Entries 3229
Mean 22.65
RMS 49.18


BBCE TDC 11
h168_bbce_tdc_11
Entries 3229
Mean 19.39
RMS 45.9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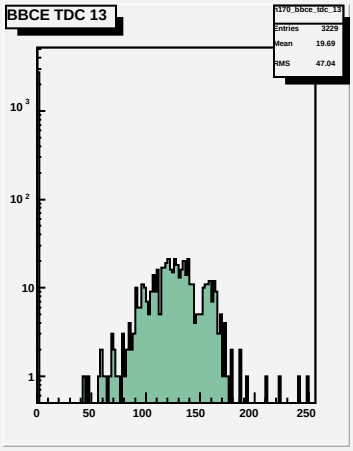
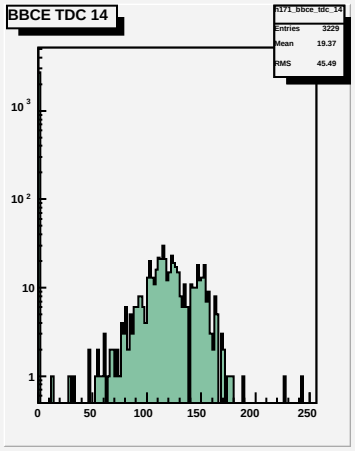
Entries 3229
Mean 38.25
RMS 58.33


BBCE TDC 13
h170_bbce_tdc_13
Entries 3229
Mean 19.69
RMS 47.04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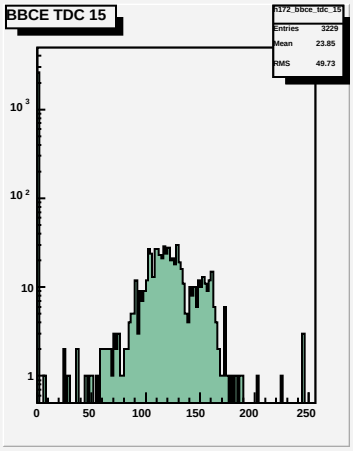
Entries 3229
Mean 19.37
RMS 45.49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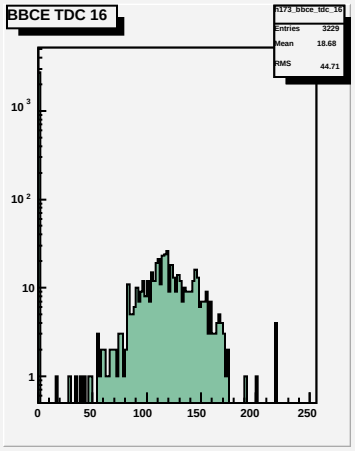
Entries 3229
Mean 23.85
RMS 49.73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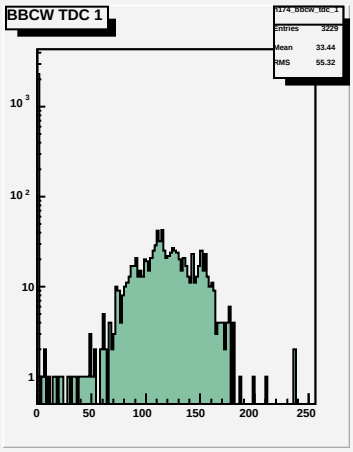
Entries 3229
Mean 18.68
RMS 44.71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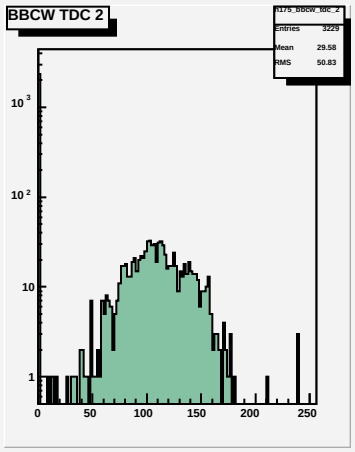
Entries 3229
Mean 33.44
RMS 55.32


BBCW TDC 2
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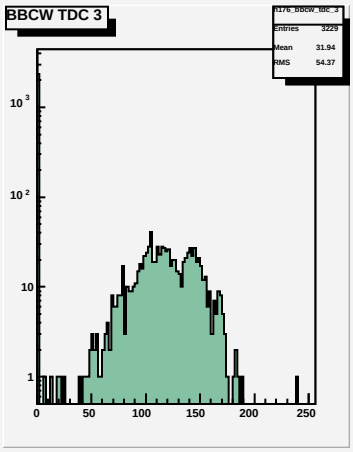
Entries 3229
Mean 29.58
RMS 50.83


BBCW TDC 3
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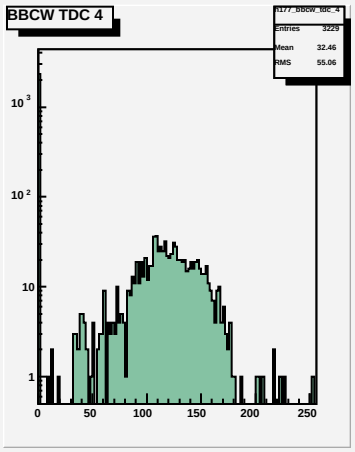
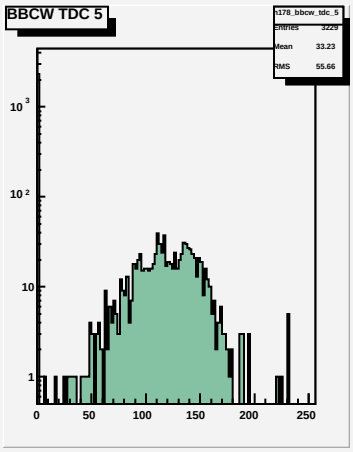
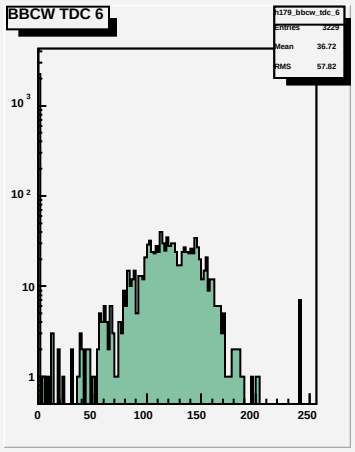
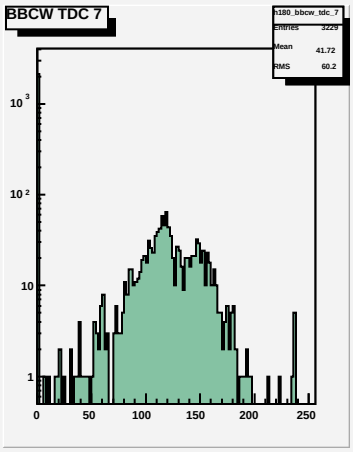
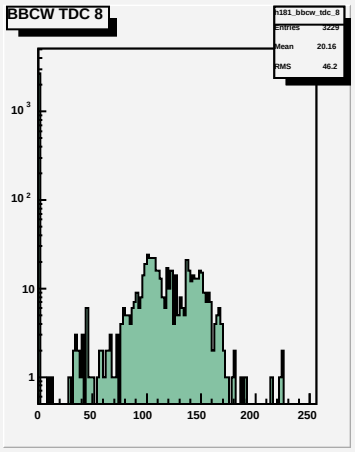
Entries 3229
Mean 31.94
RMS 54.37

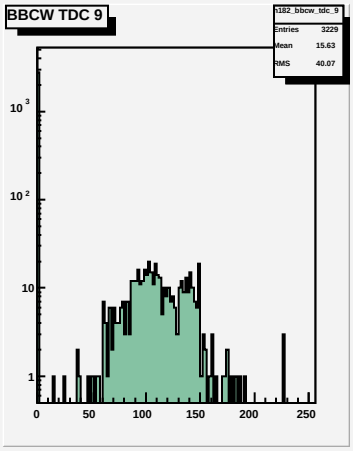

BBCW TDC 4
h177_bbcw_tdc_4
Entries 3229
Mean 32.46
RMS 55.06

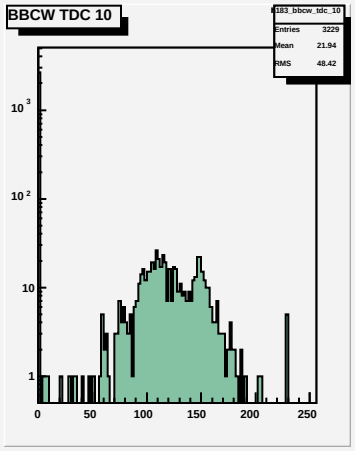

BBCW TDC 5
h178_bbcw_tdc_5
Entries 3229
Mean 33.23
RMS 55.66

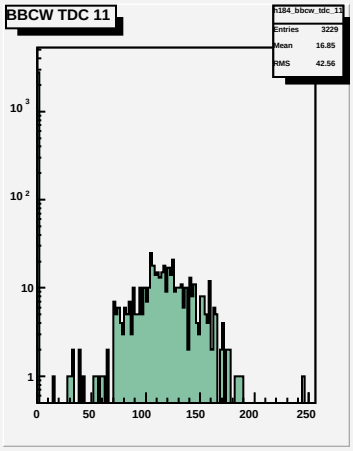

BBCW TDC 6
h179_bbcw_tdc_6
Entries 3229
Mean 36.72
RMS 57.82

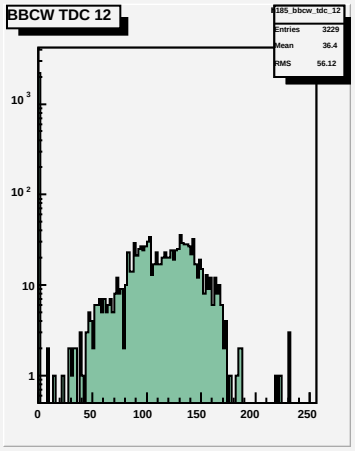

BBCW TDC 7
h180_bbcw_tdc_7
Entries 3229
Mean 41.72
RMS 60.2

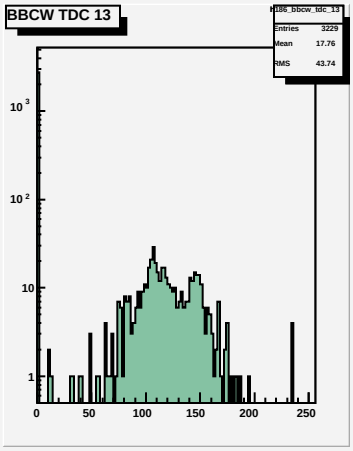

BBCW TDC 8
h181_bbcw_tdc_8
Entries 3229
Mean 20.16
RMS 46.2

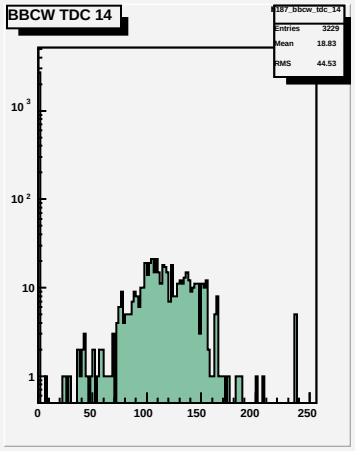

BBCW TDC 9
h182_bbcw_tdc_9
Entries 3229
Mean 15.63
RMS 40.07

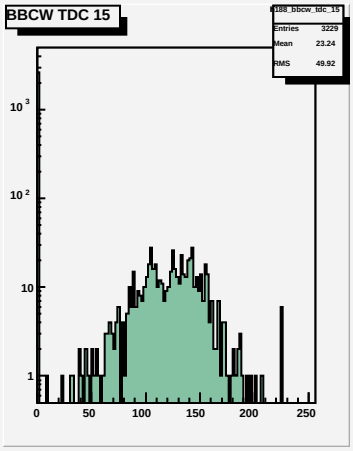

BBCW TDC 10
h183_bbcw_tdc_10
Entries 3229
Mean 21.94
RMS 48.42

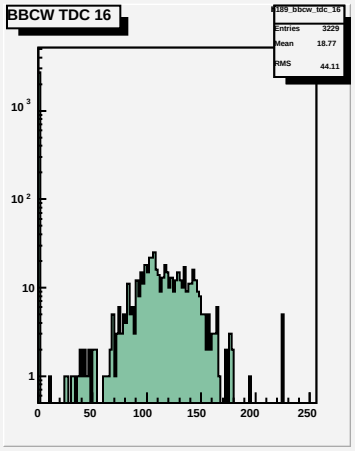

BBCW TDC 11
h184_bbcw_tdc_11
Entries 3229
Mean 16.85
RMS 42.56

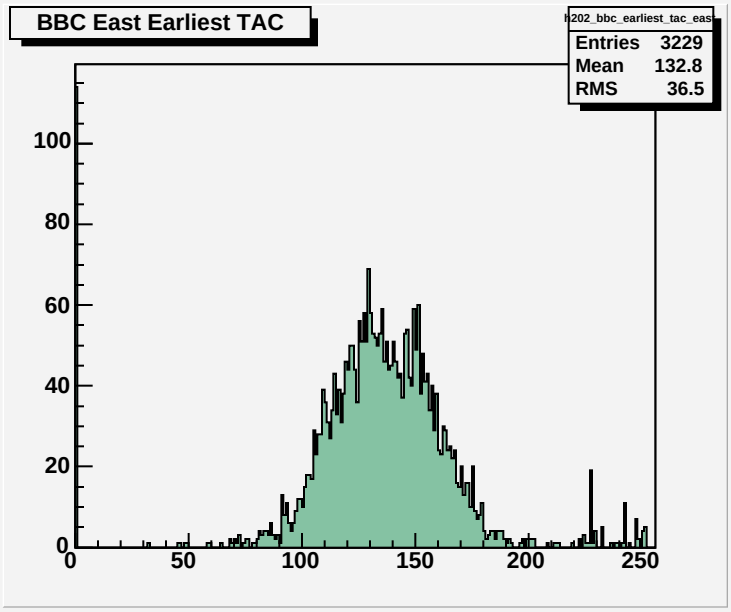

BBCW TDC 12
h185_bbcw_tdc_12
Entries 3229
Mean 36.4
RMS 56.12

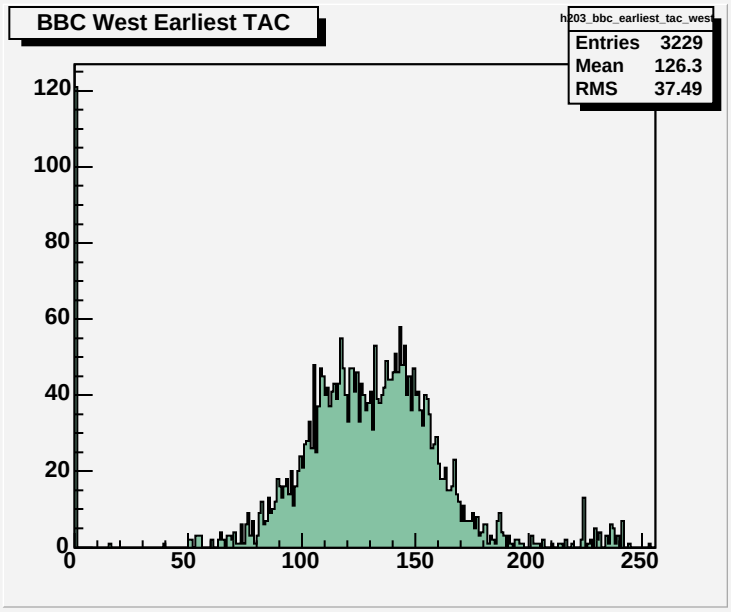

BBCW TDC 13
h186_bbcw_tdc_13
Entries 3229
Mean 17.76
RMS 43.74

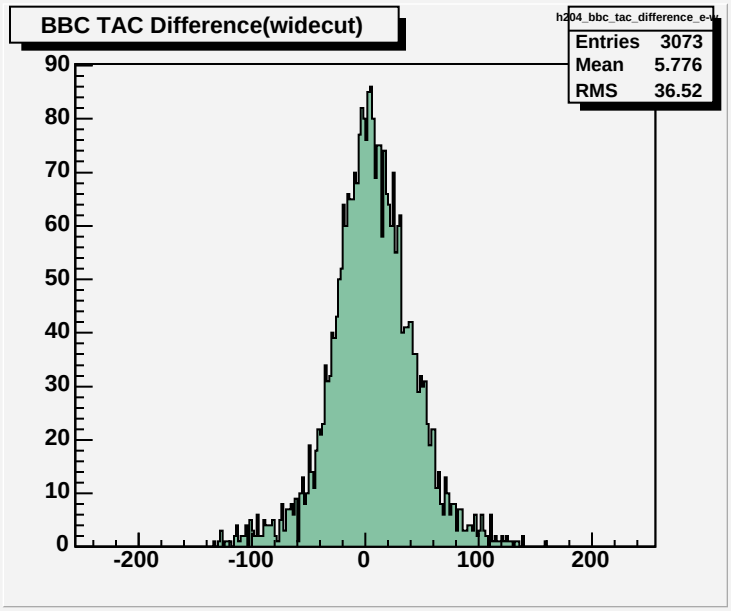

BBCW TDC 14
h187_bbcw_tdc_14
Entries 3229
Mean 18.83
RMS 44.53

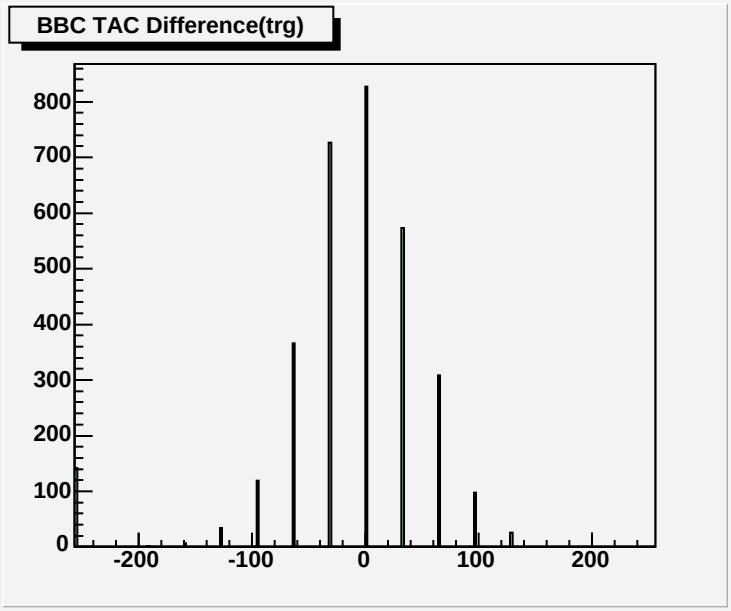

BBCW TDC 15
h188_bbcw_tdc_15
Entries 3229
Mean 23.24
RMS 49.92

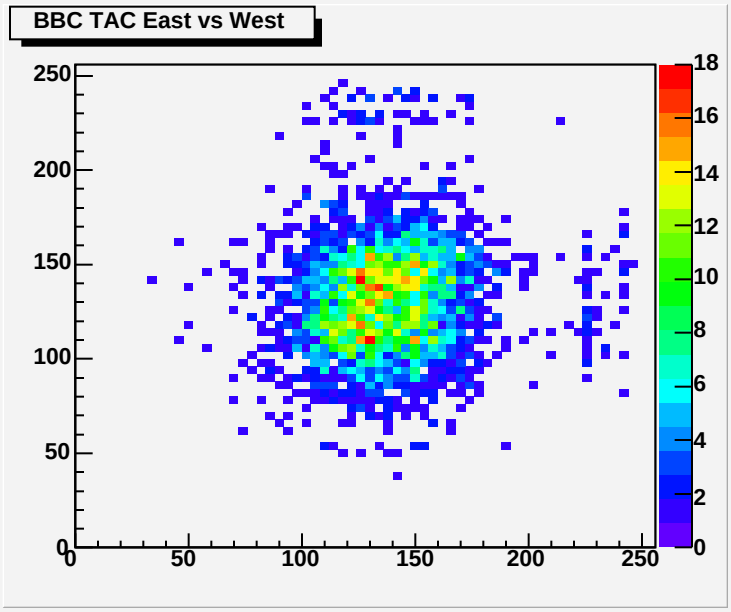

BBCW TDC 16
h189_bbcw_tdc_16
Entries 3229
Mean 18.77
RMS 44.11

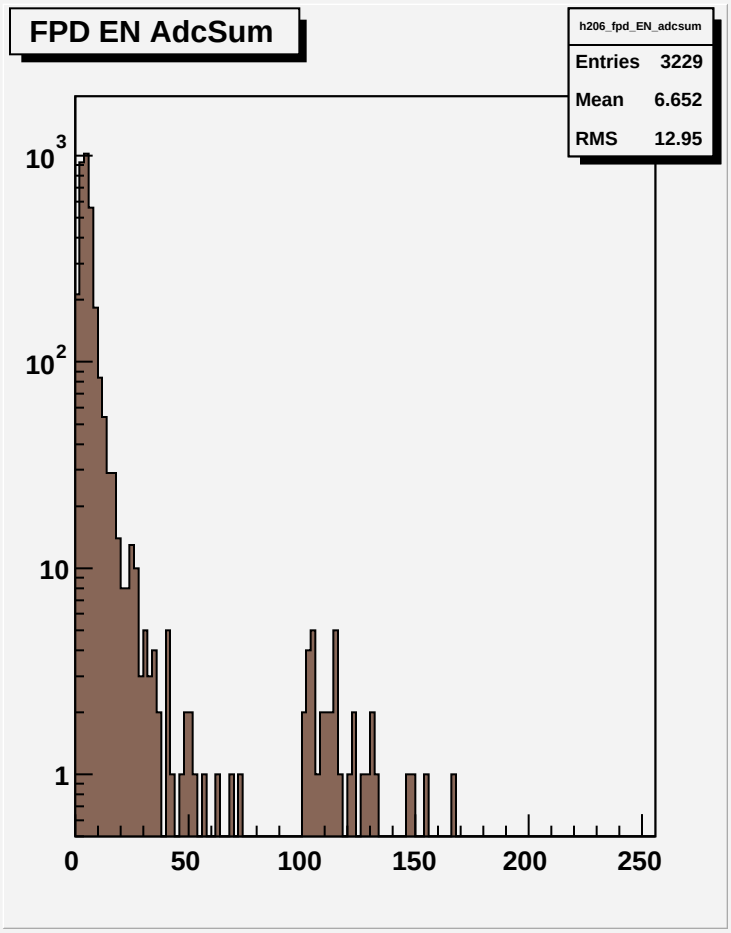

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 3229
Mean 132.8
RMS 36.5

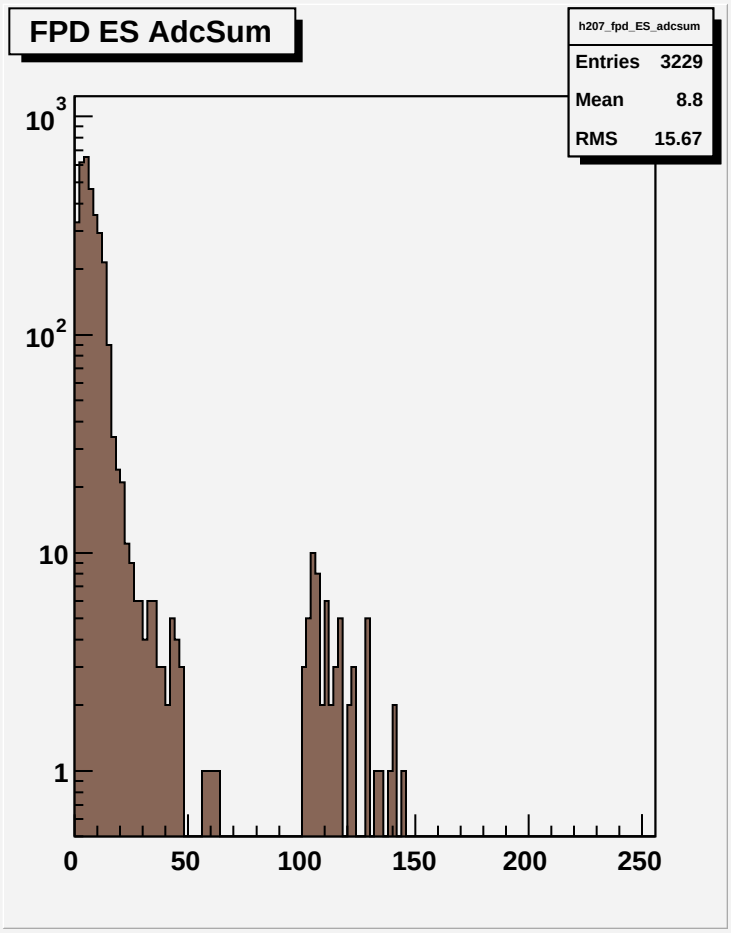

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 3229
Mean 126.3
RMS 37.49


BBC TAC Difference(widecut)
h204_bbc_tac_difference_e-w
Entries 3073
Mean 5.776
RMS 36.52


BBC TAC Difference(trg)


BBC TAC East vs West


FPD EN AdcSum
h206_fpd_EN_adcsum
Entries 3229
Mean 6.652
RMS 12.95
10^3
10^2
10
1
0
50
100
150
200
250


FPD ES AdcSum
h207_fpd_ES_adcsum
Entries 3229
Mean 8.8
RMS 15.67
10^3
10^2
10
1
0
50
100
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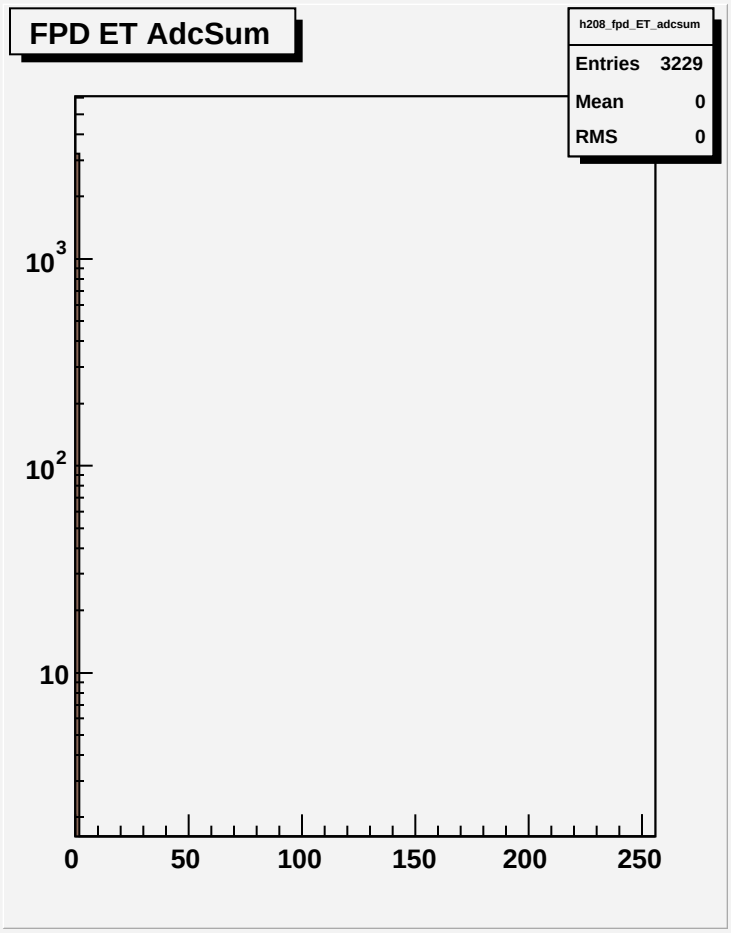
200
250


FPD ET AdcSum
h208_fpd_ET_adcsum
Entries 3229
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RMS 0
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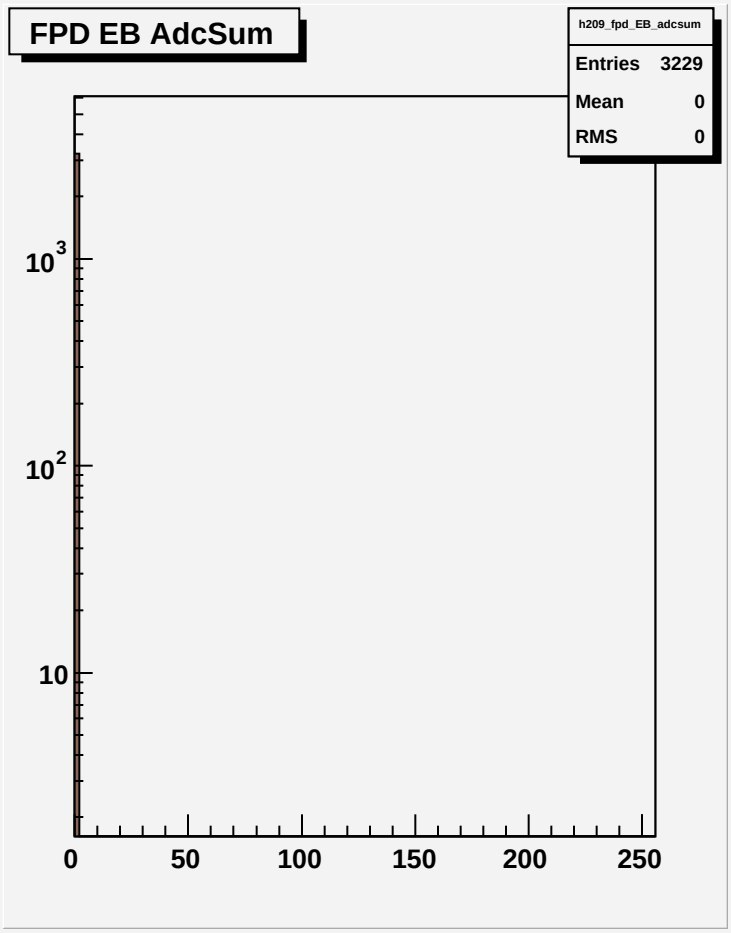
10^2
10
0
50
100
150
200
250


FPD EB AdcSum
h209_fpd_EB_adcsum
Entries 3229
Mean 0
RMS 0
10^3
10^2
10
0
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100
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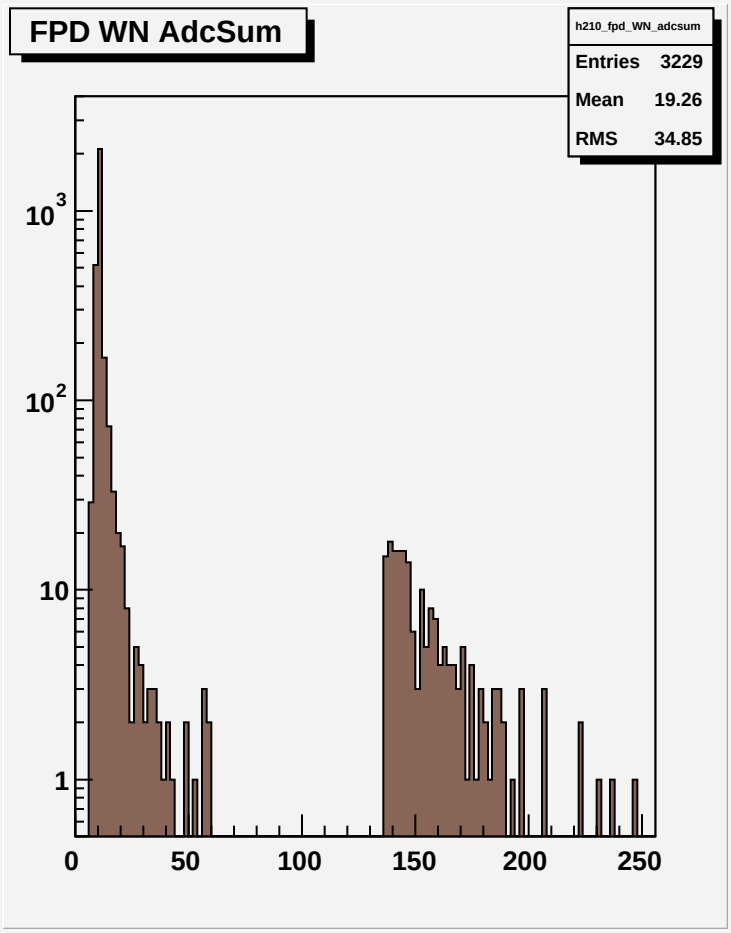
200
250


FPD WN AdcSum
h210_fpd_WN_adcsum
Entries 3229
Mean 19.26
RMS 34.85
10^3
10^2
10
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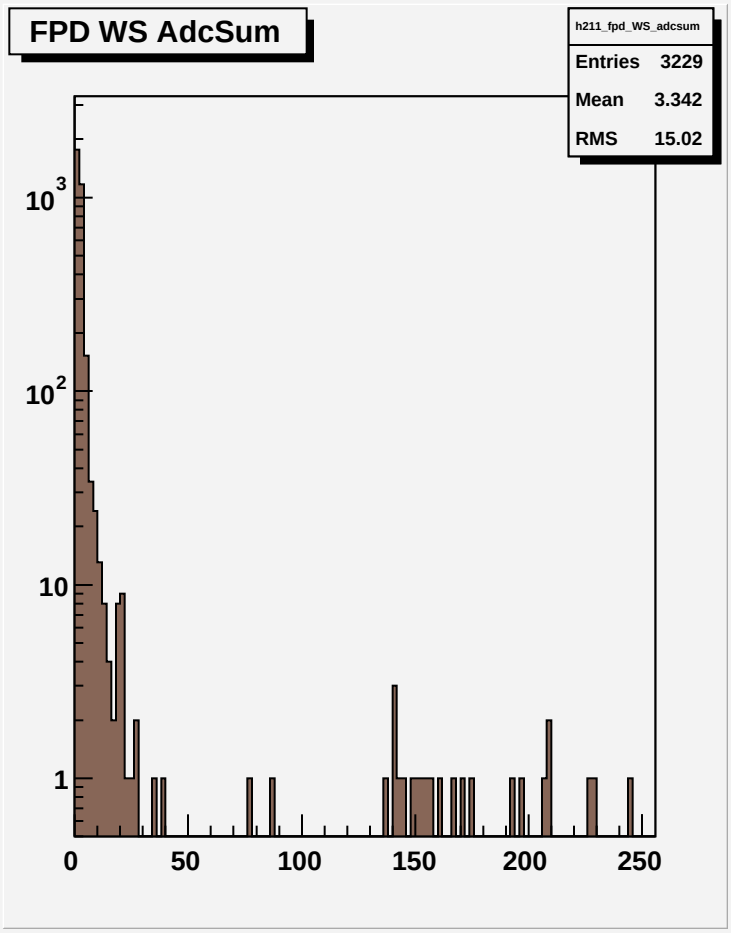
100
150
200
250


FPD WS AdcSum
h211_fpd_WS_adcsum
Entries 3229
Mean 3.342
RMS 15.02
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10^2
10
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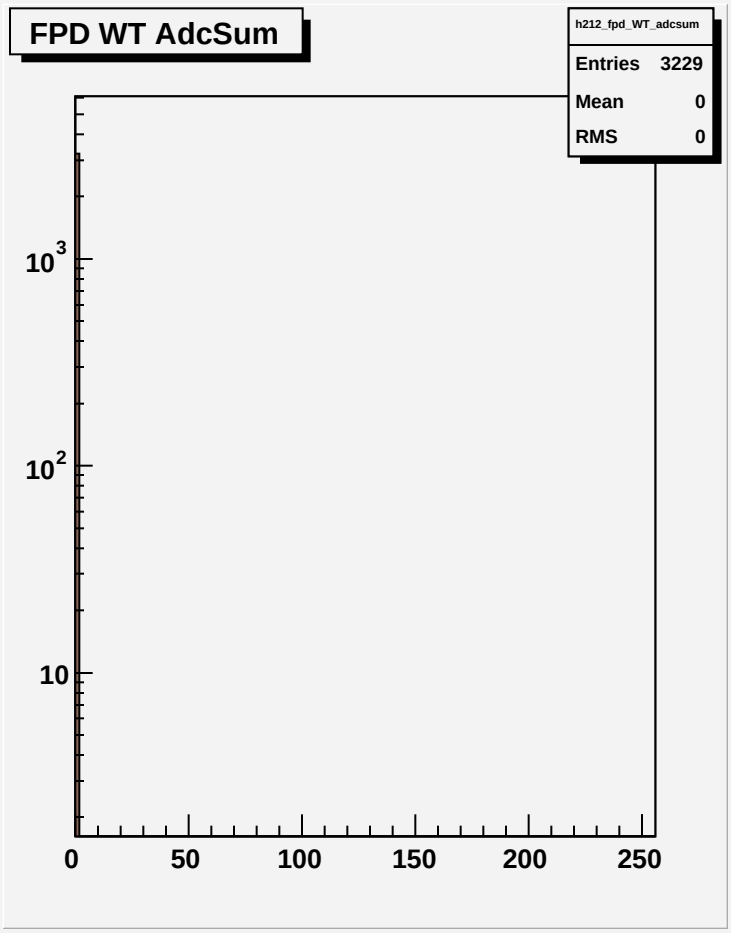
FPD WT AdcSum
h212_fpd_WT_adcsum
Entries 3229
Mean 0
RMS 0
10^3
10^2
10
0
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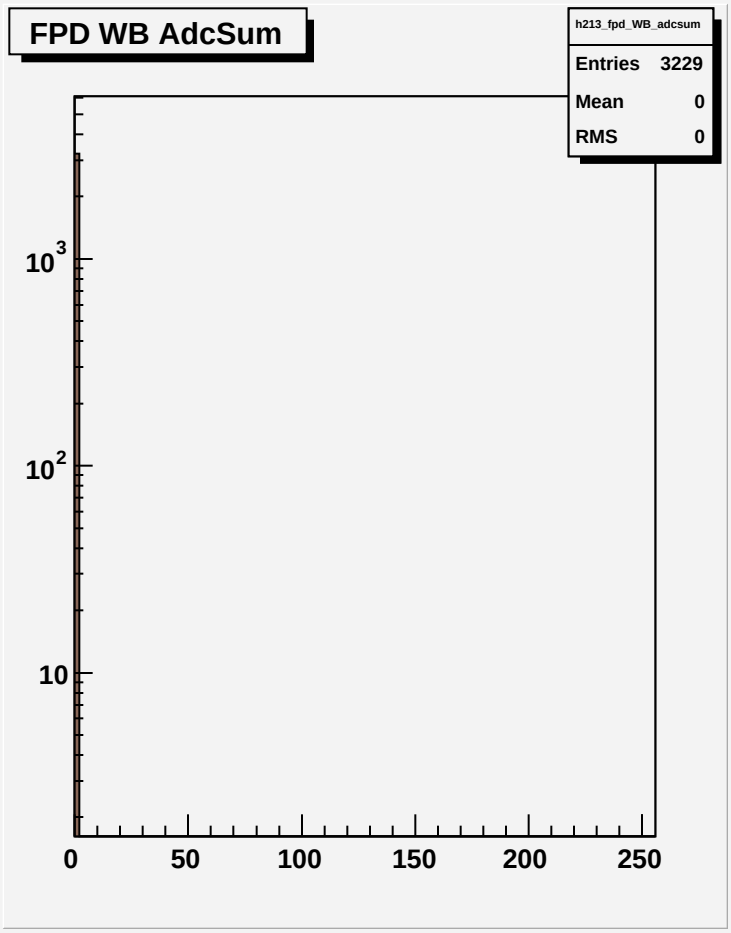
150
200
250


FPD WB AdcSum
h213_fpd_WB_adcsum
Entries 3229
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10^3
10^2
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100
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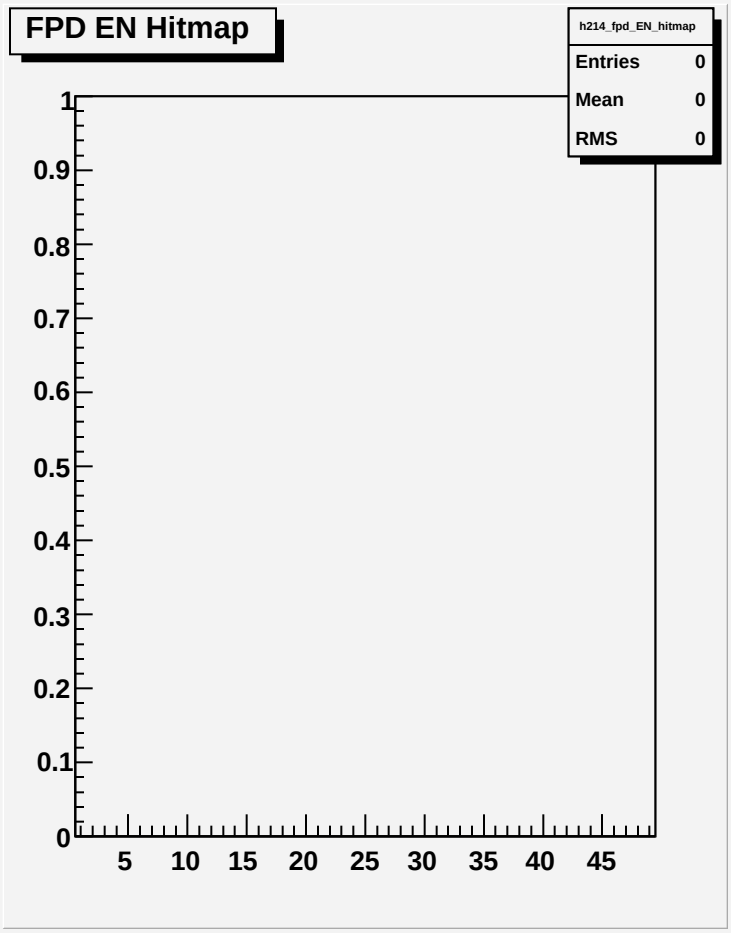
250


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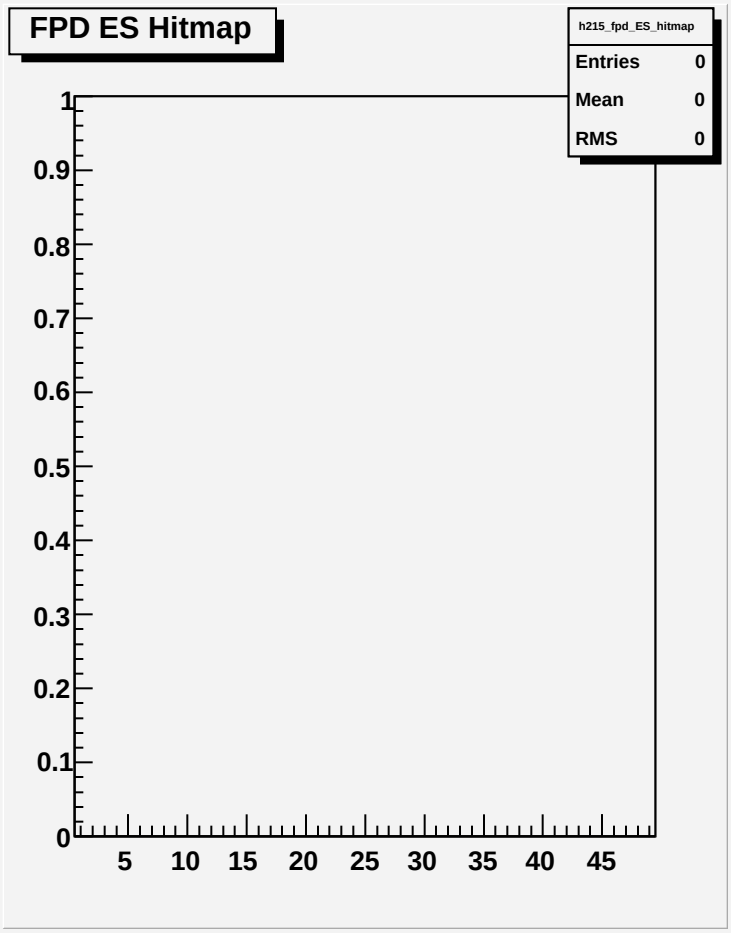
0.2
0.1
0
5 10 15 20 25 30 35 40 45


FPD ES Hitmap
h215_fpd_ES_hitmap
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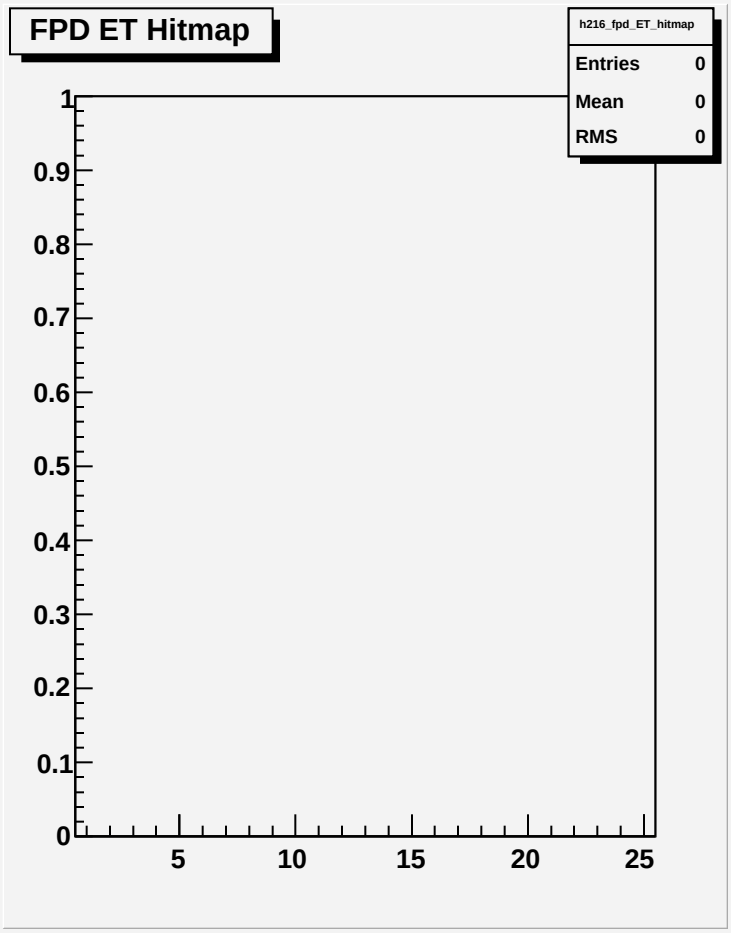
FPD ET Hitmap
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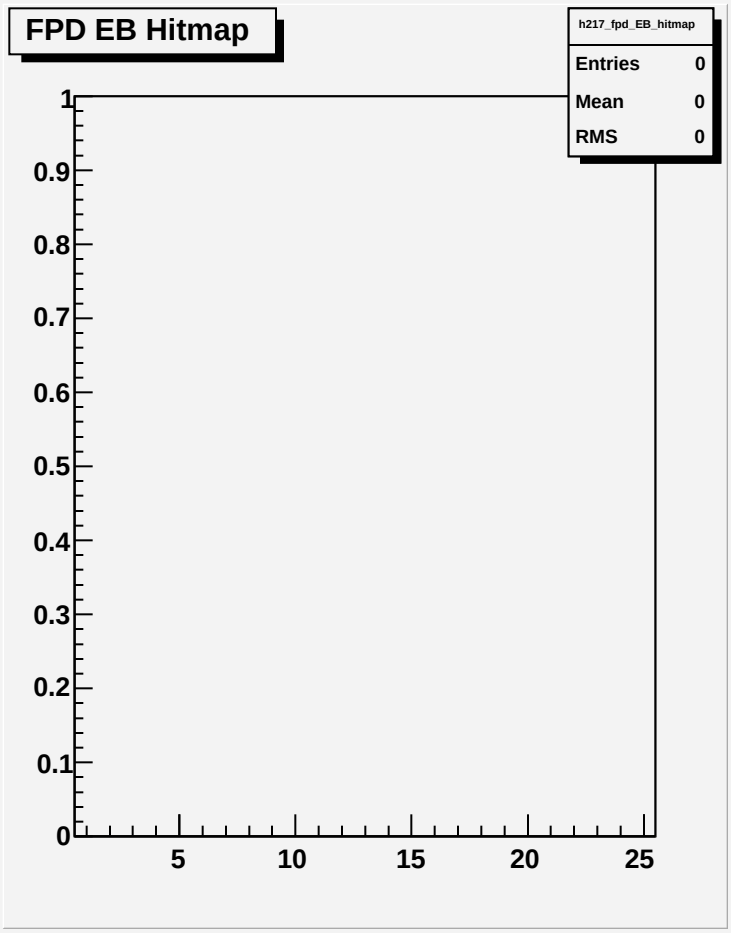
FPD EB Hitmap
h217_fpd_EB_hitmap
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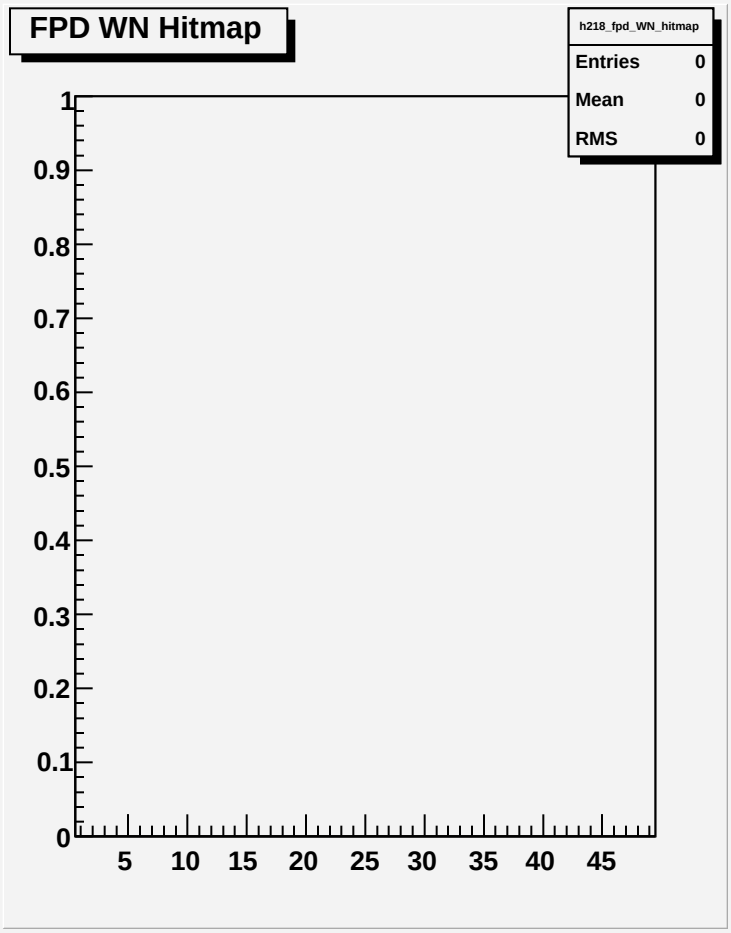
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25


FPD WN Hitmap
h218_fpd_WN_hitmap
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Mean 0
RMS 0
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0.4
0.3
0.2
0.1
0
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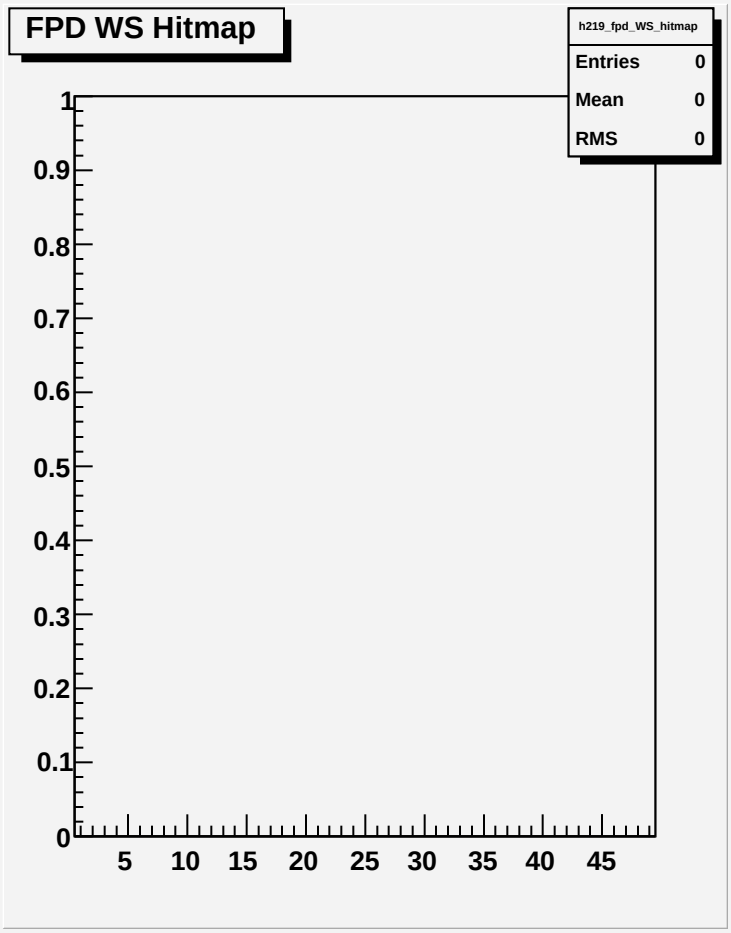
FPD WS Hitmap
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RMS 0
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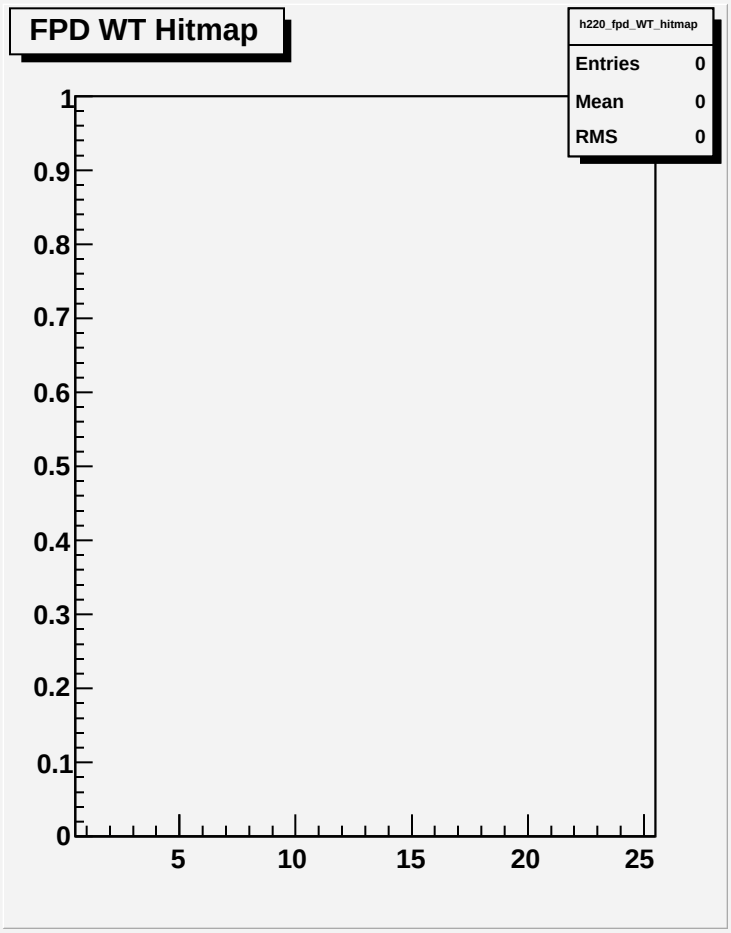
FPD WT Hitmap
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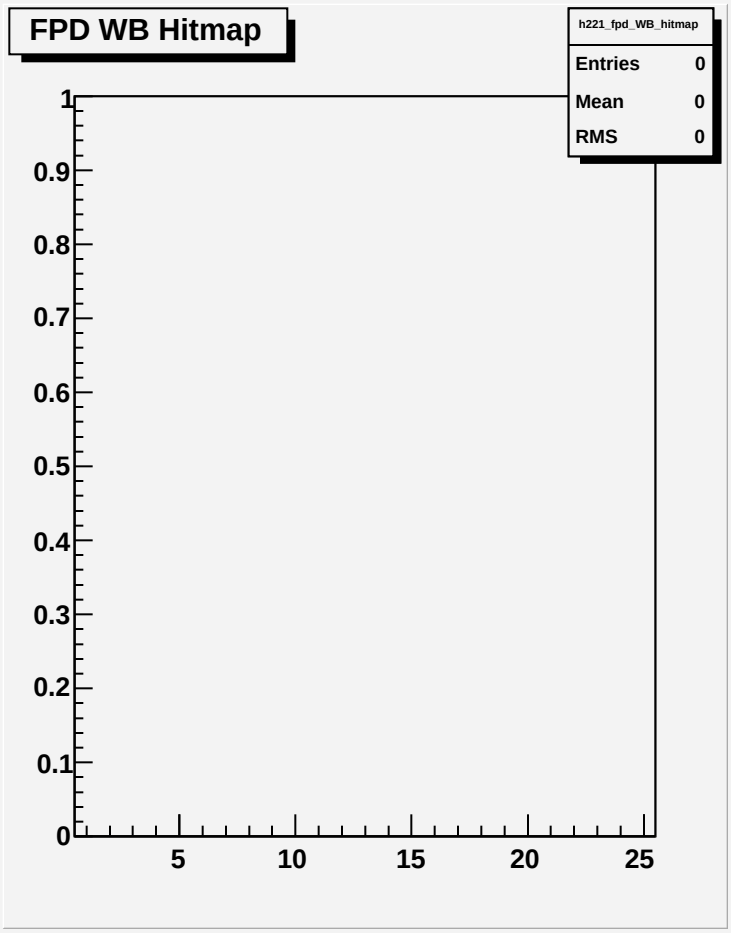
FPD WB Hitmap
h221_fpd_WB_hitmap
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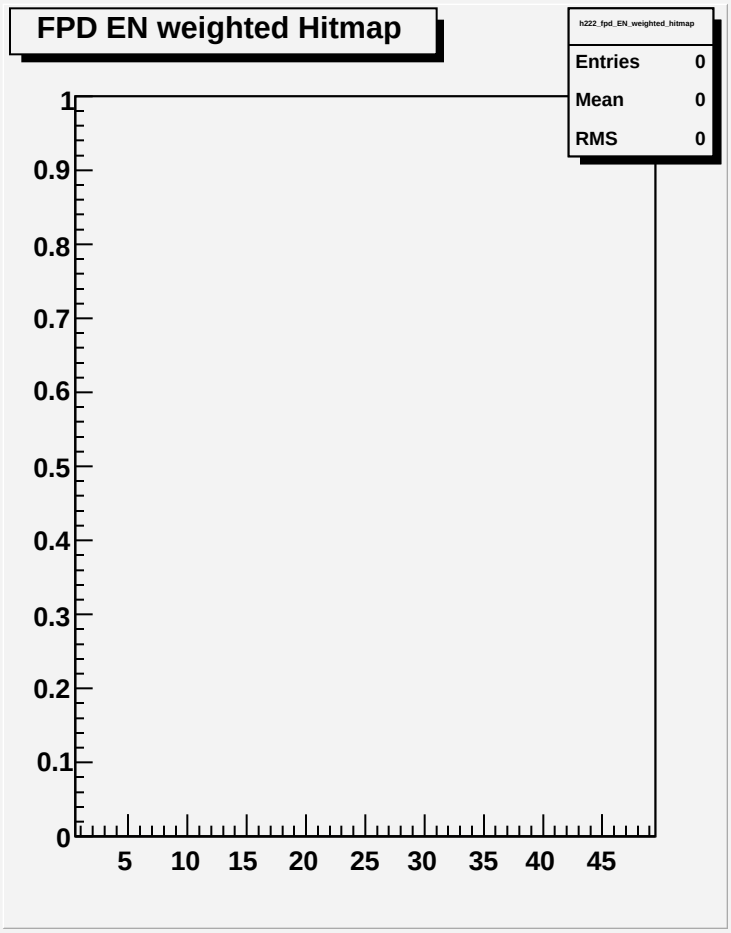
0.2
0.1
0
5 10 15 20 25


FPD EN weighted Hitmap
h222_fpd_EN_weighted_hitmap
Entries 0
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0.1
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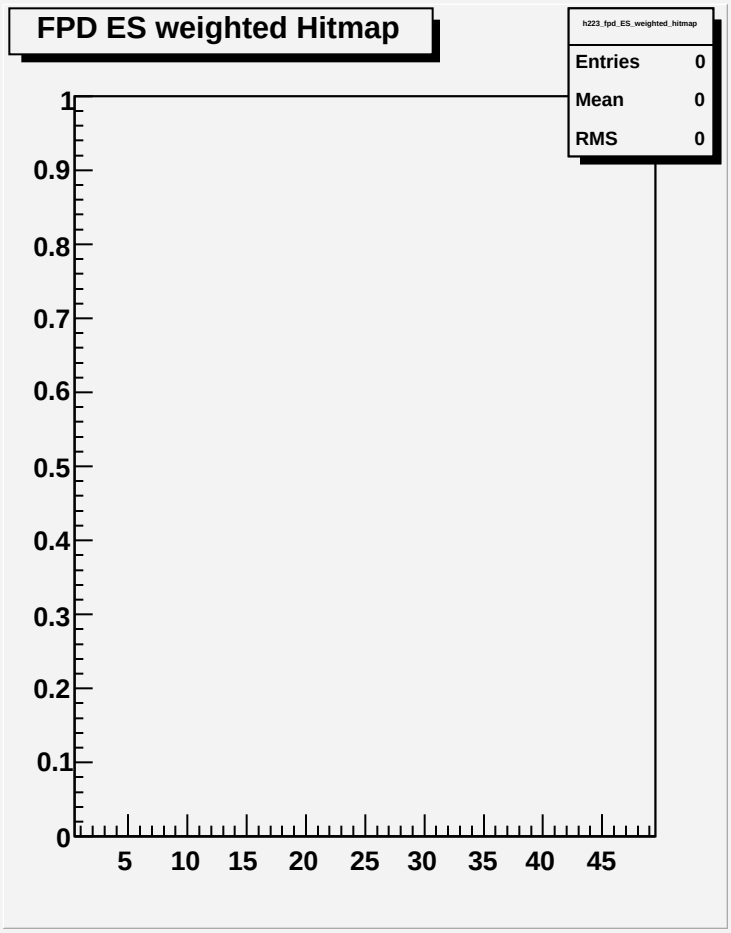
FPD ES weighted Hitmap
h223_fpd_ES_weighted_hitmap
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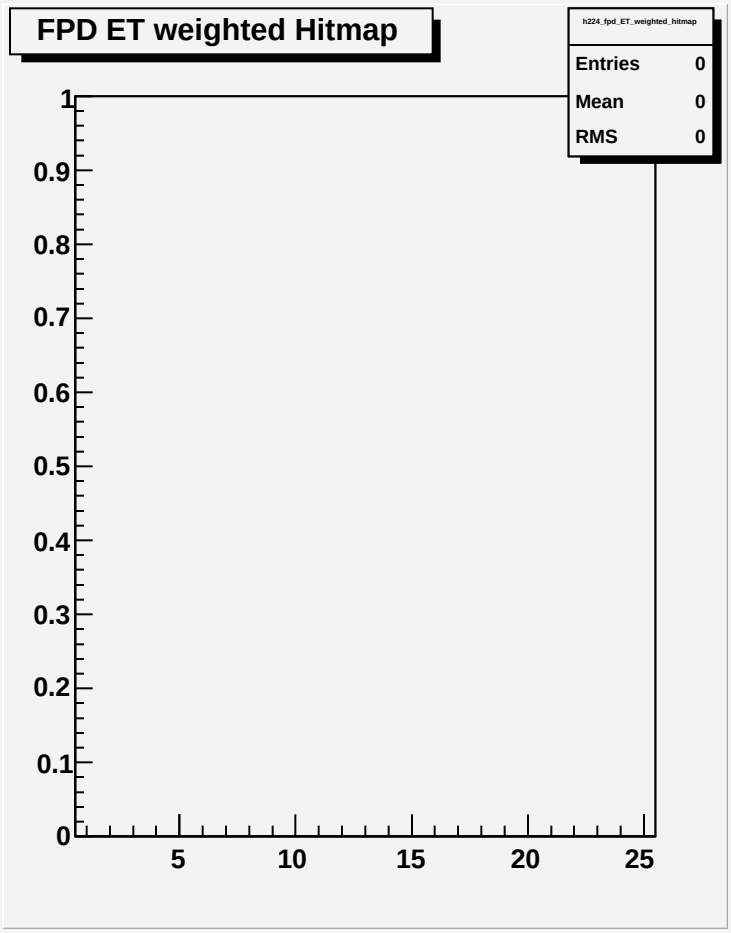
5 10 15 20 25 30 35 40 45


FPD ET weighted Hitmap
h224_fpd_ET_weighted_hitmap
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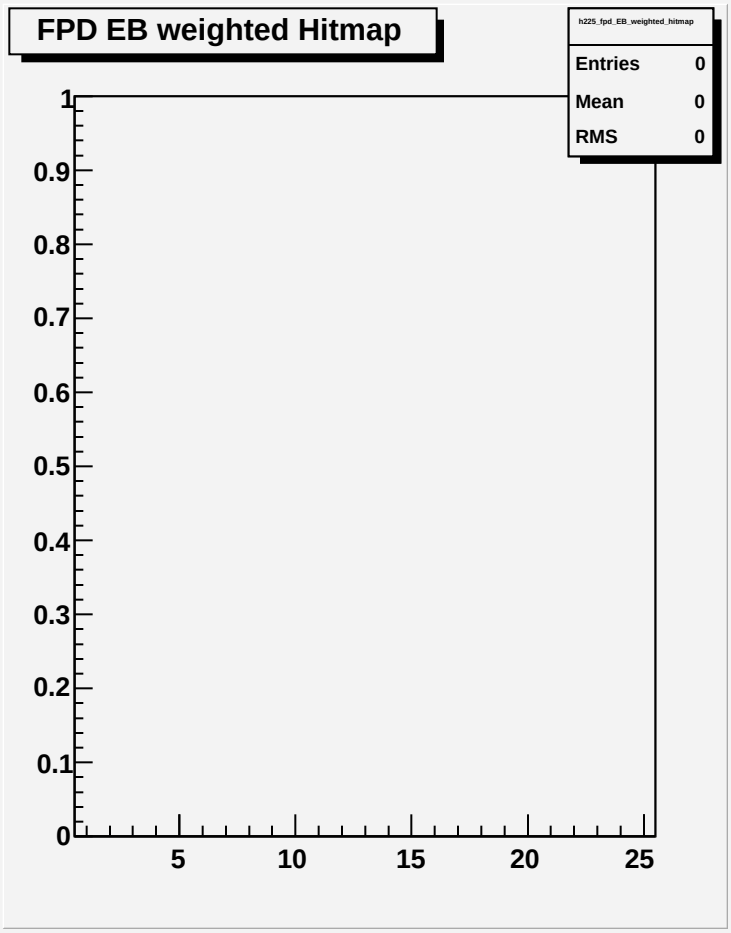
FPD EB weighted Hitmap
h225_fpd_EB_weighted_hitmap
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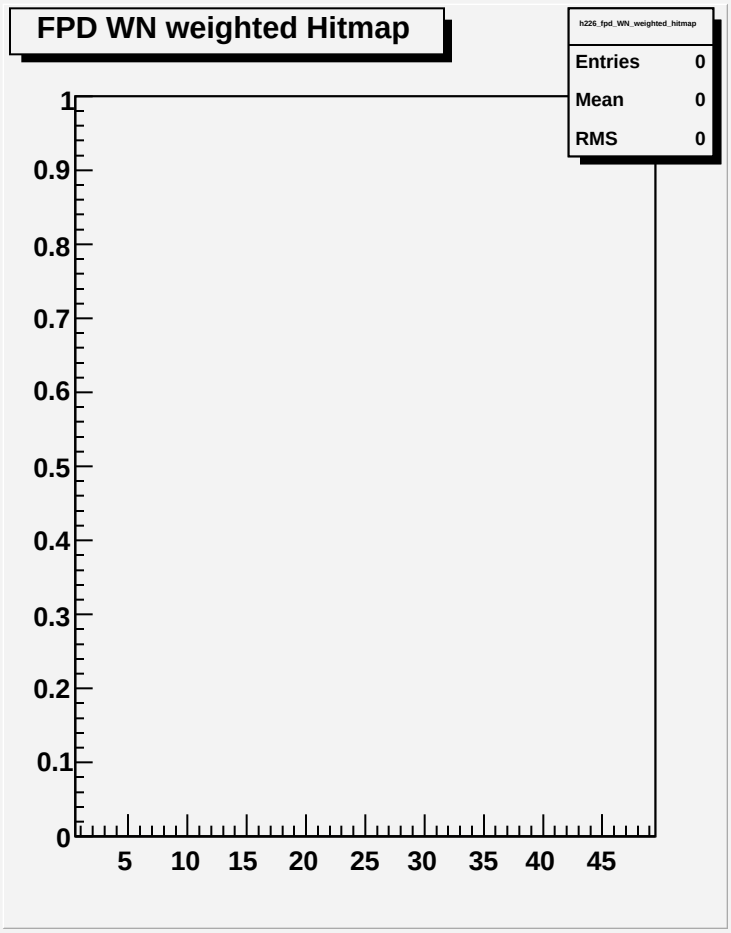
5 10 15 20 25


FPD WN weighted Hitmap
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Entries 0
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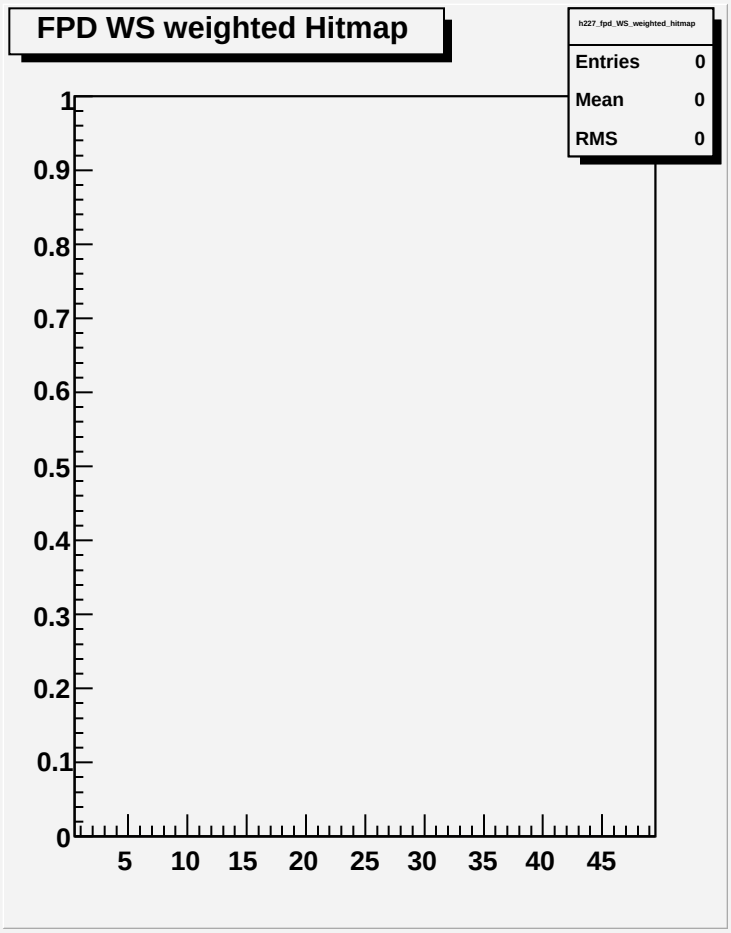
FPD WS weighted Hitmap
h227_fpd_WS_weighted_hitmap
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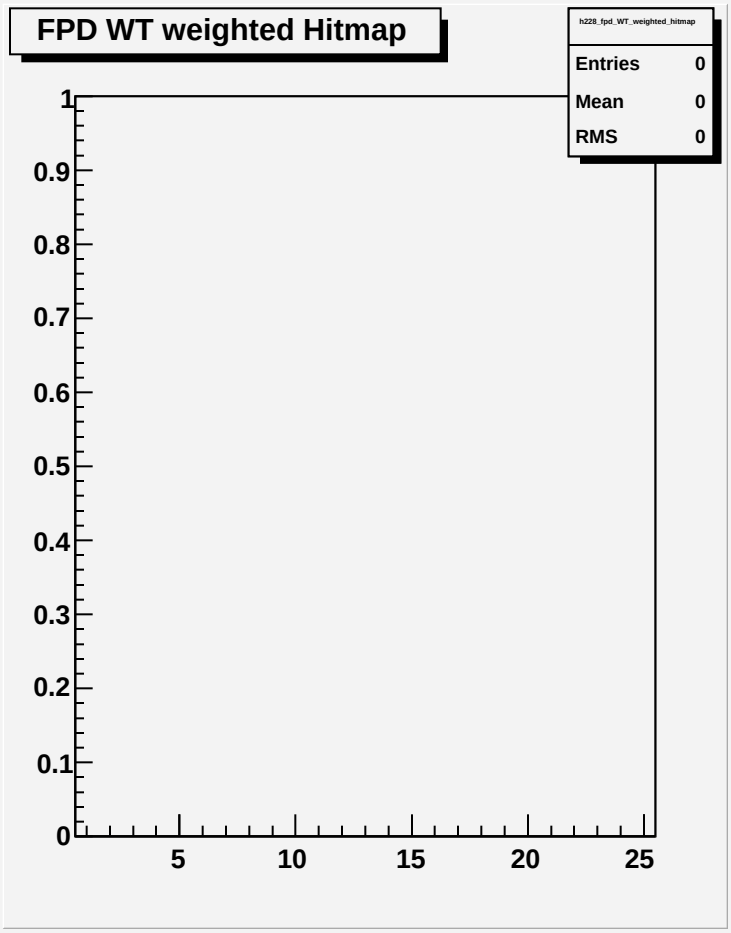
FPD WT weighted Hitmap
h228_fpd_WT_weighted_hitmap
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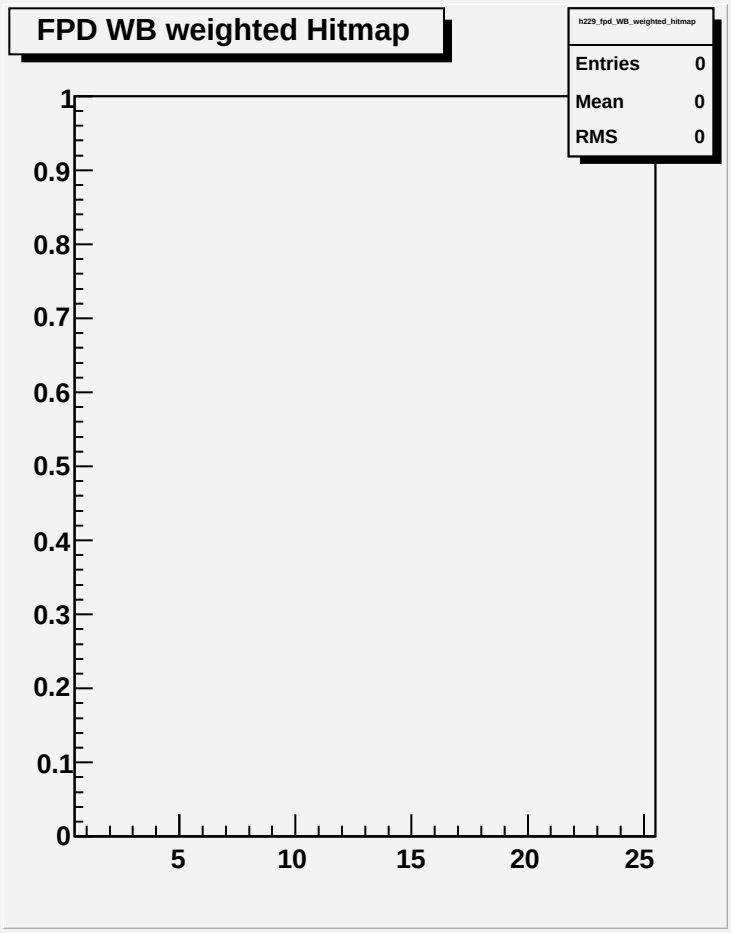
5 10 15 20 25


FPD WB weighted Hitmap
h229_fpd_WB_weighted_hitmap
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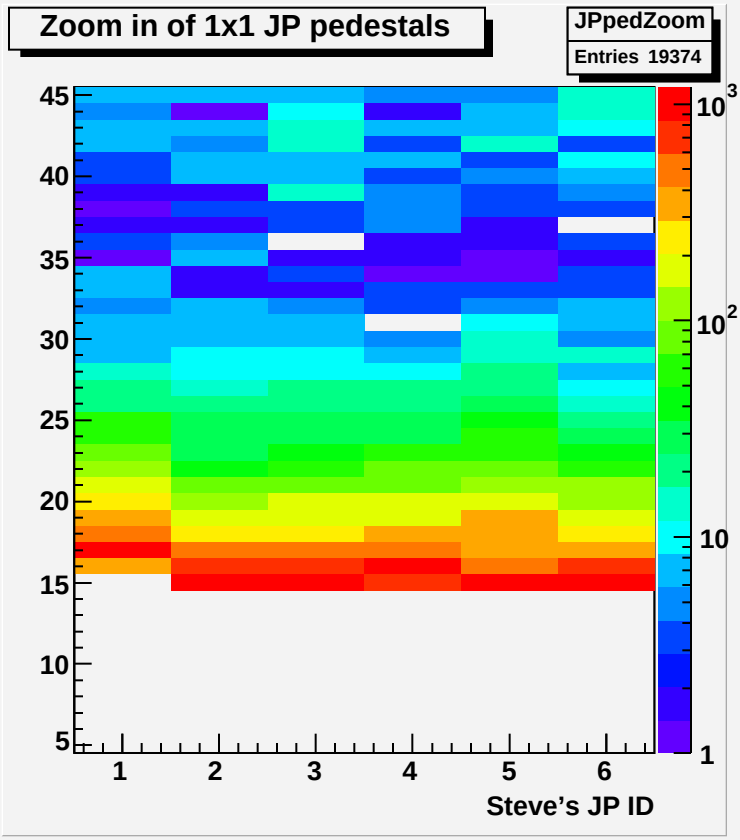
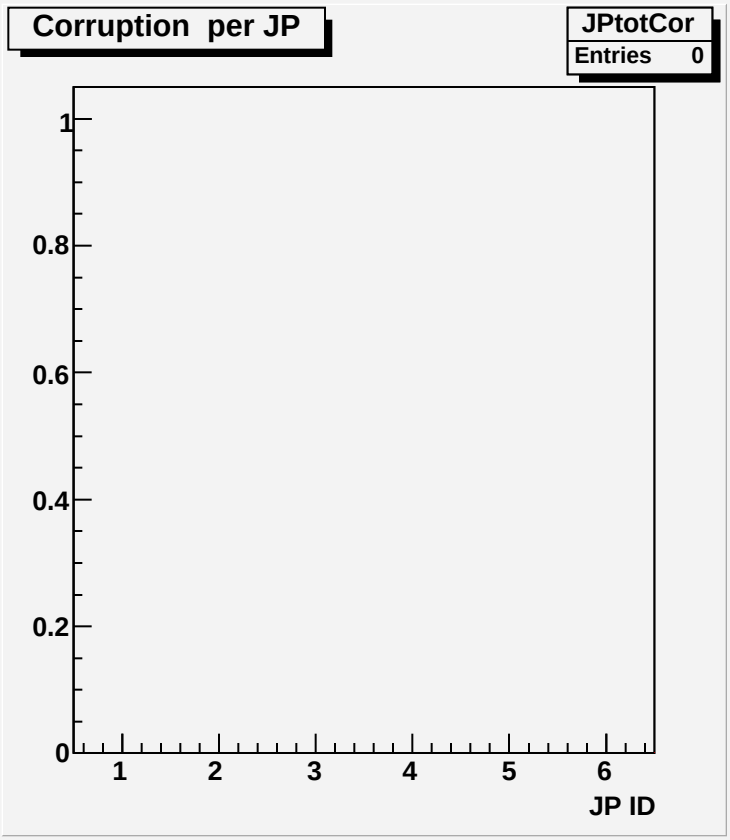
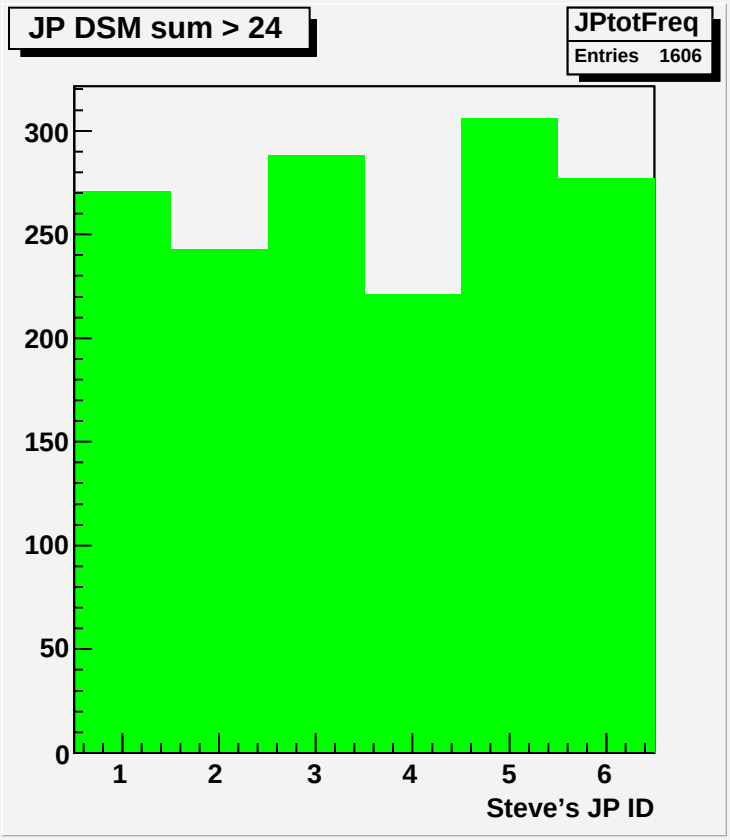
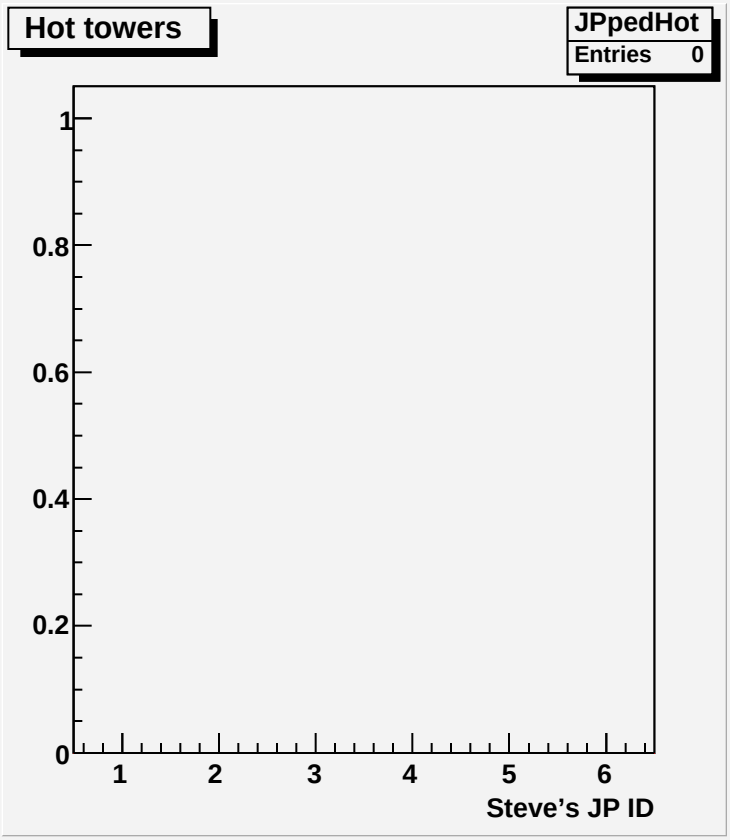
5 10 15 20 25









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

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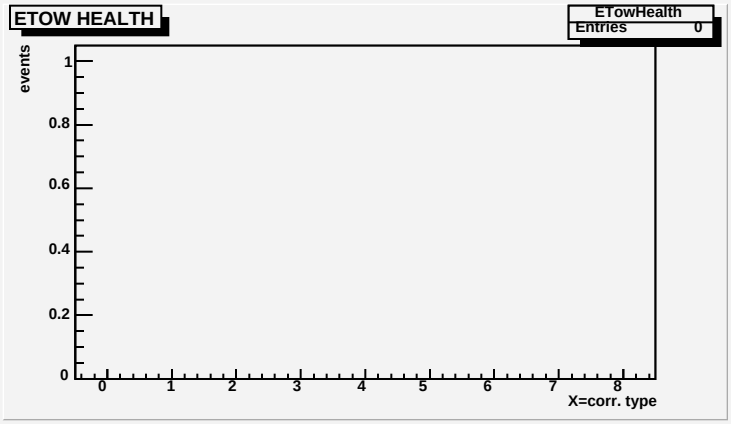
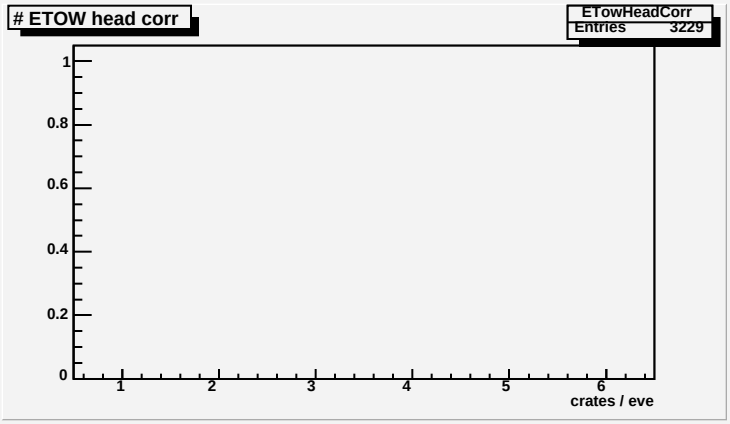
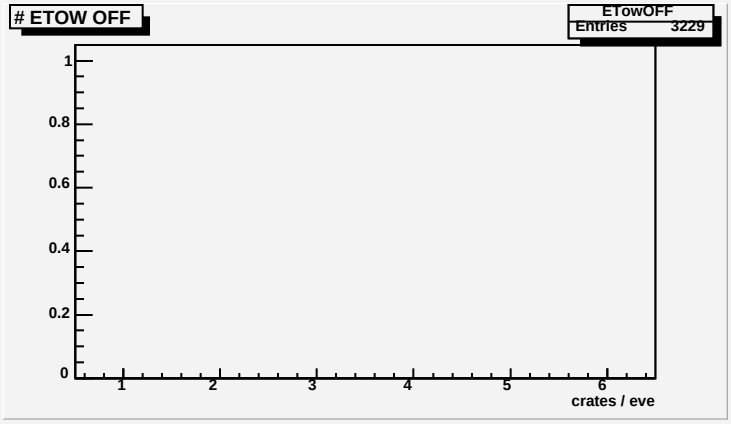
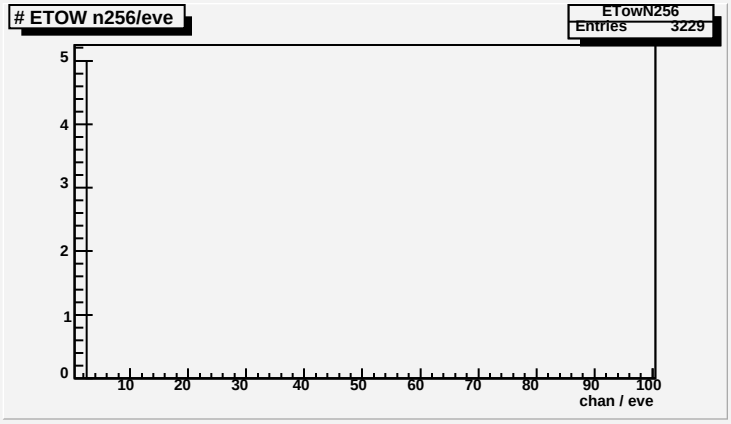
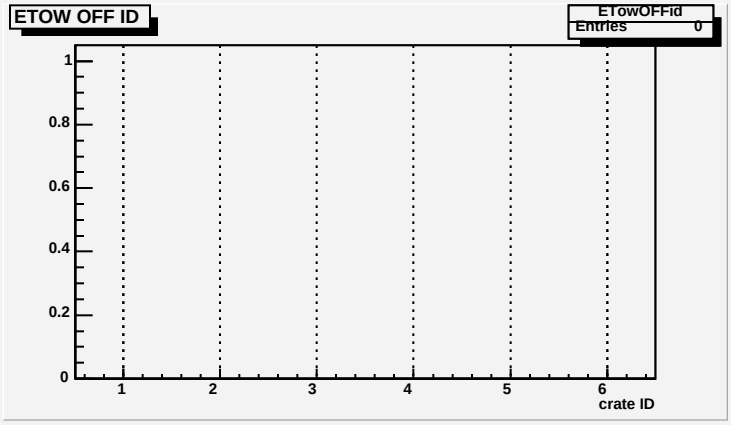
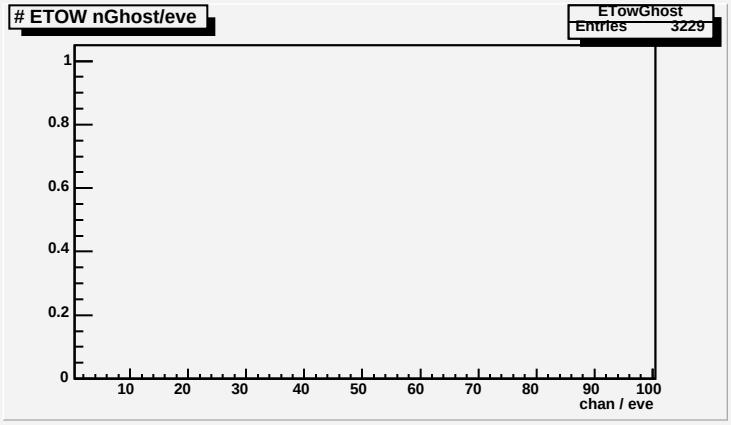

ETOW HEALTH
ETowHealth
Entries 0
events
X=corr. type

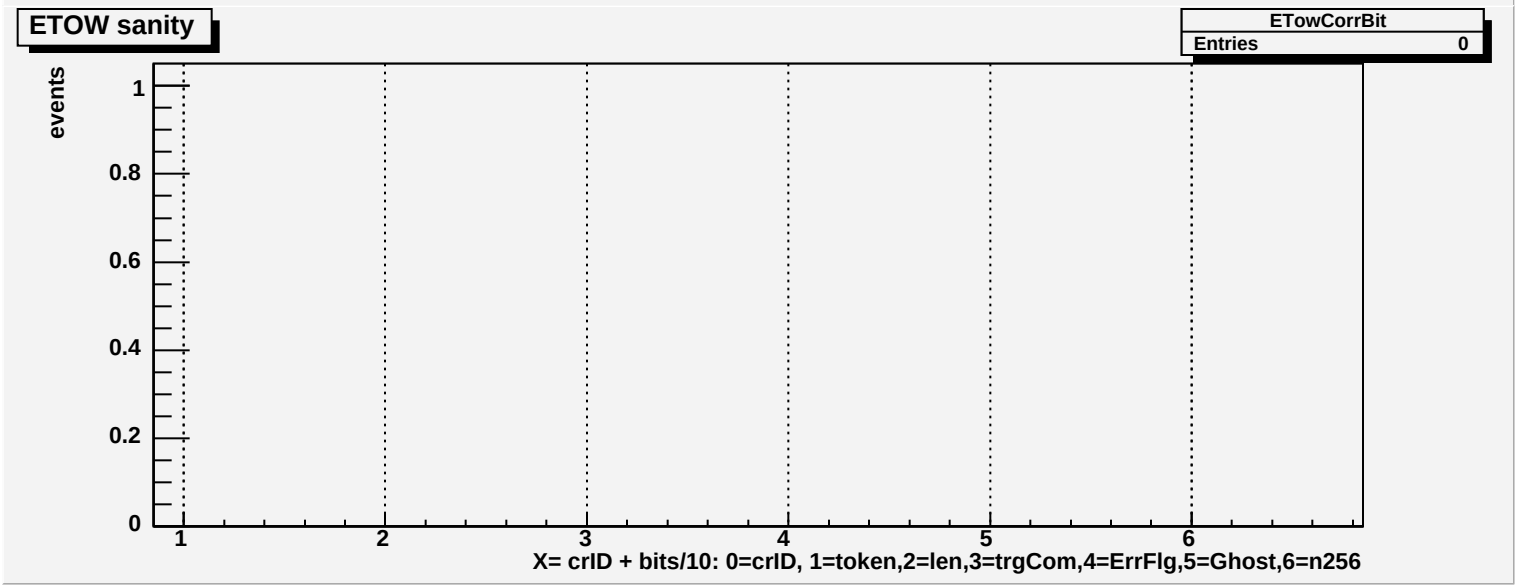

ETOW head corr
ETowHeadCorr
Entries 3229
crates / eve

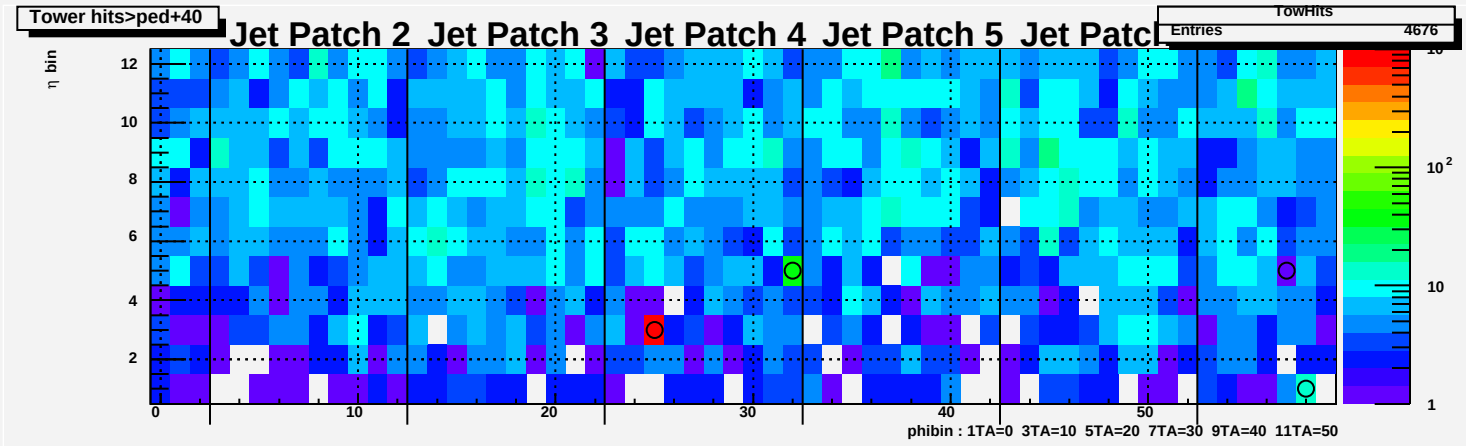

ETOW OFF
ETowOFF
Entries 3229
crates / eve

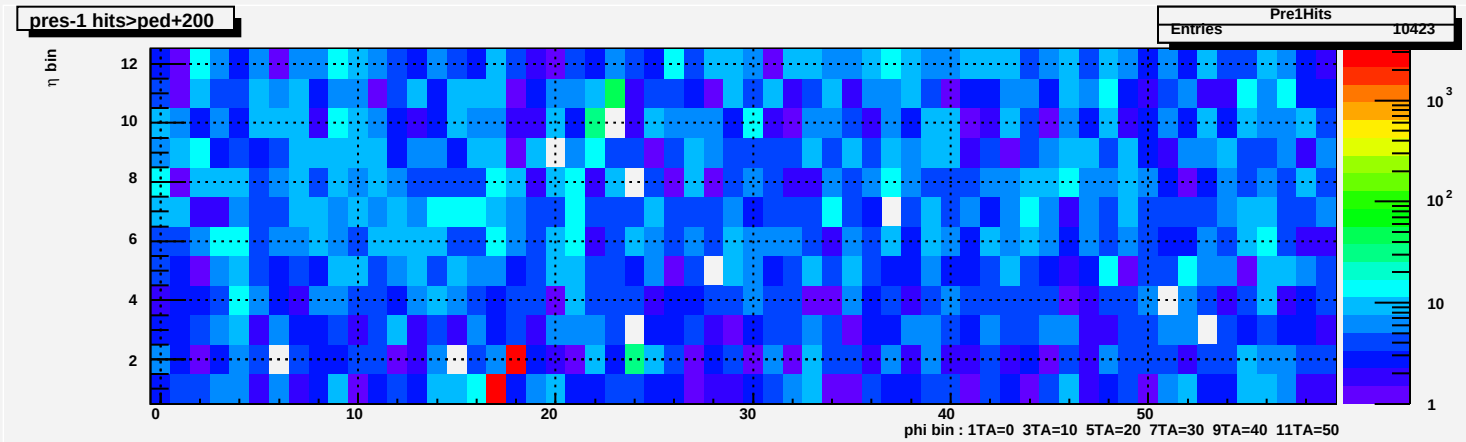

ETOW n256/eve
ETowN256
Entries 3229
chan / eve

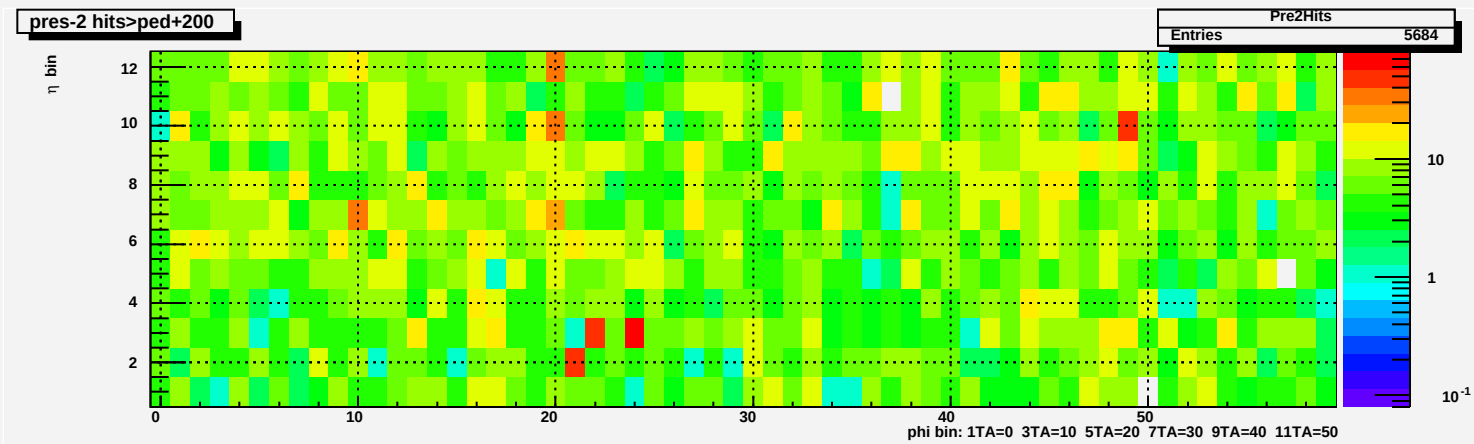

ETOW OFF ID
ETowOFFid
Entries 0
crate ID

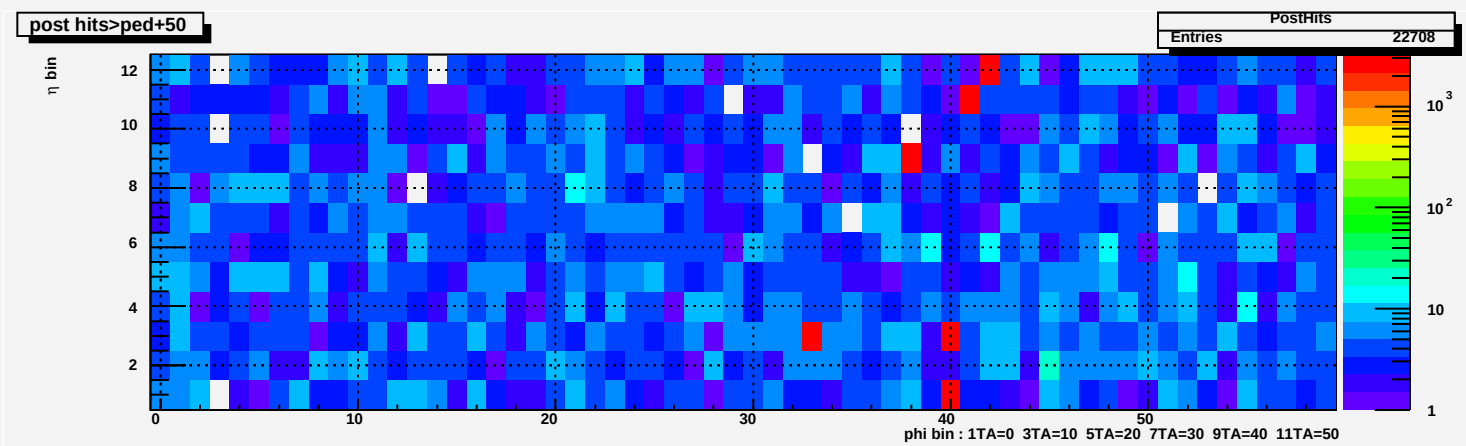

ETOW nGhost/eve
ETowGhost
Entries 3229
chan / eve

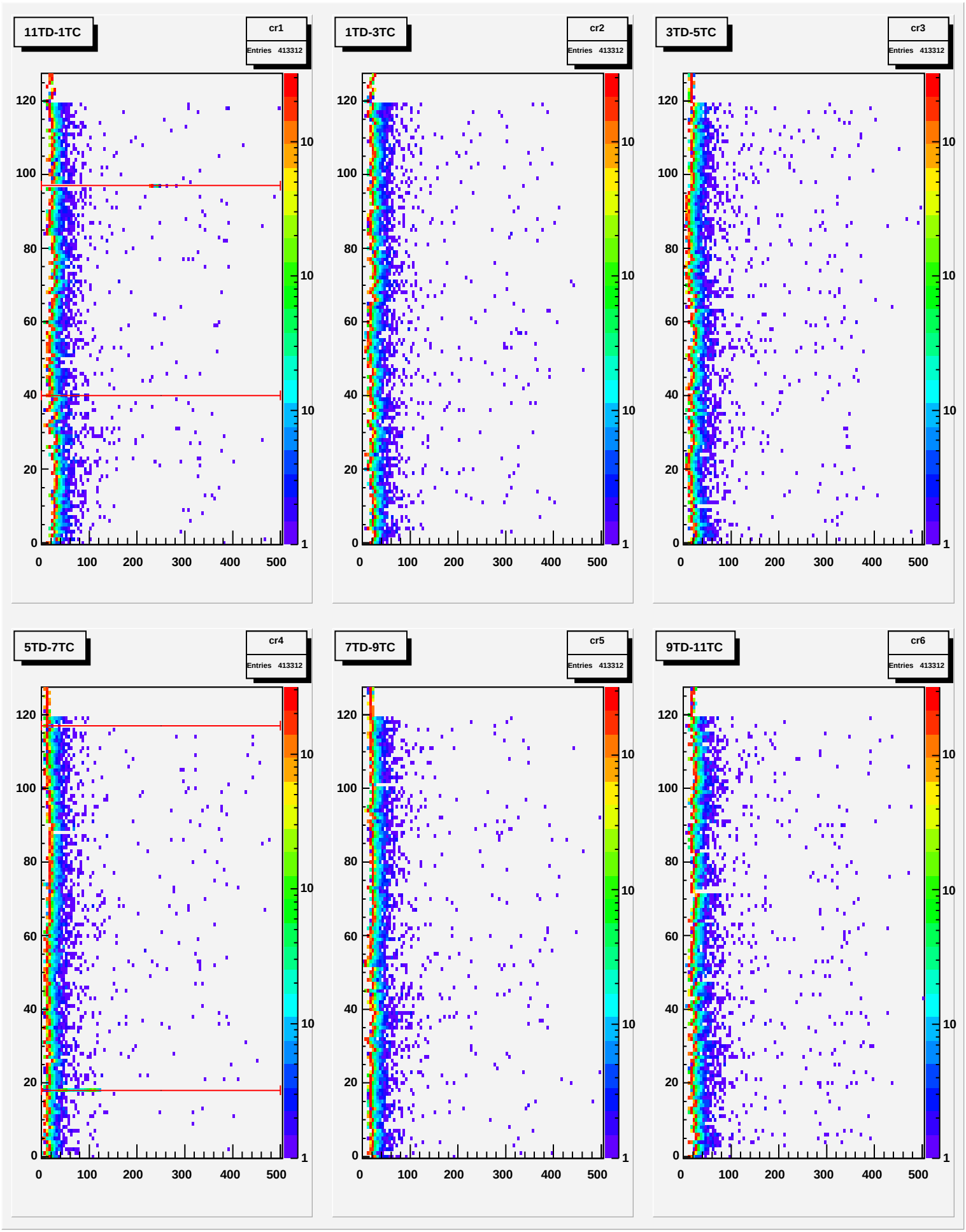

ETOW sanity
ETowCorrBit
Entries 0
events
X= crID + bits/10: 0=crID, 1=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

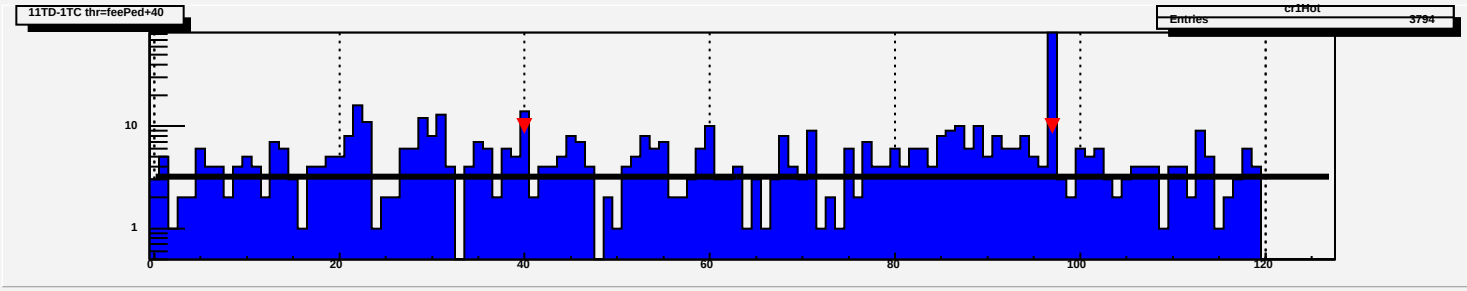

Tower hits>ped+40
Jet Patch 2 Jet Patch 3 Jet Patch 4 Jet Patch 5 Jet Patc
TowHits
Entries 4676
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

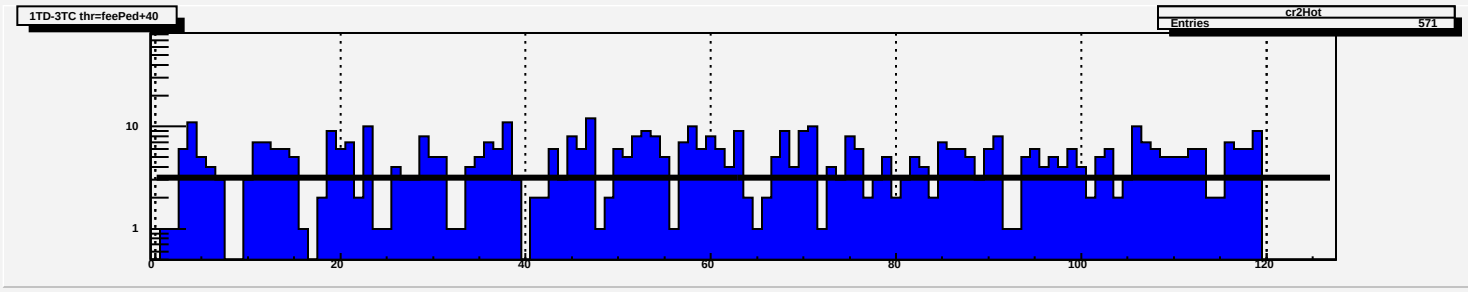

pres-1 hits>ped+200
Pre1Hits
Entries 10423
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

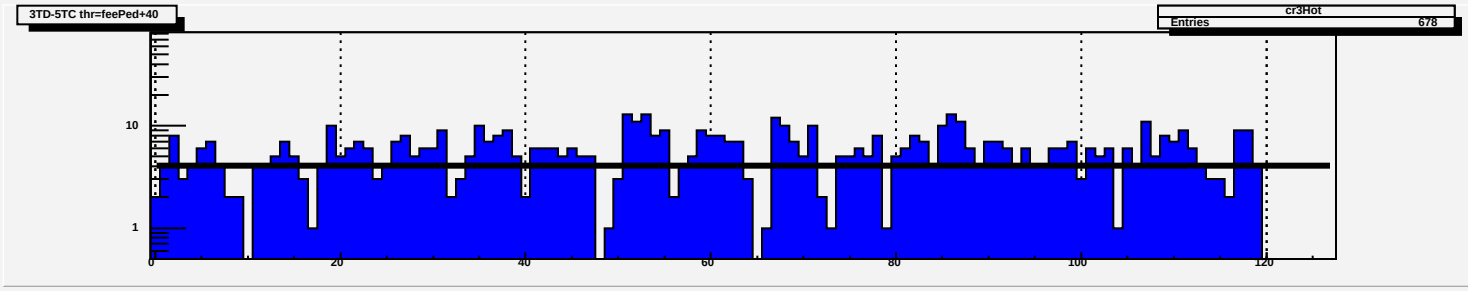

pres-2 hits>ped+200
Pre2Hits
Entries 5684
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

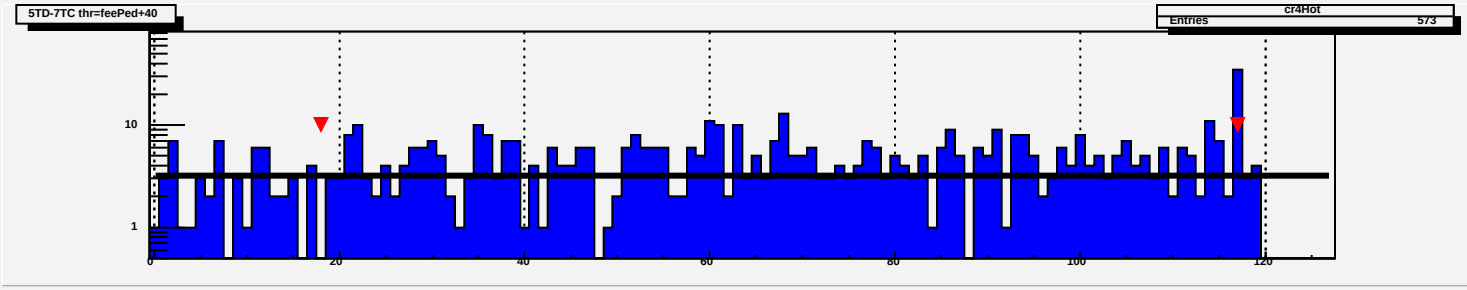

post hits>ped+50
PostHits
Entries 22708
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

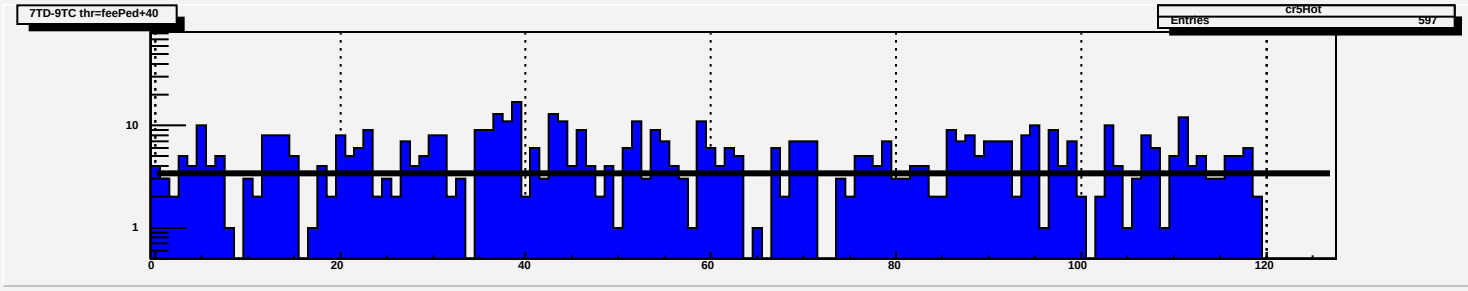

11TD-1TC
cr1
Entries 413312
1TD-3TC
cr2
Entries 413312
3TD-5TC
cr3
Entries 413312
5TD-7TC
cr4
Entries 413312
7TD-9TC
cr5
Entries 413312
9TD-11TC
cr6
Entries 413312
0
20
40
60
80
100
120
0
100
200
300
400
500
1
10
10
10

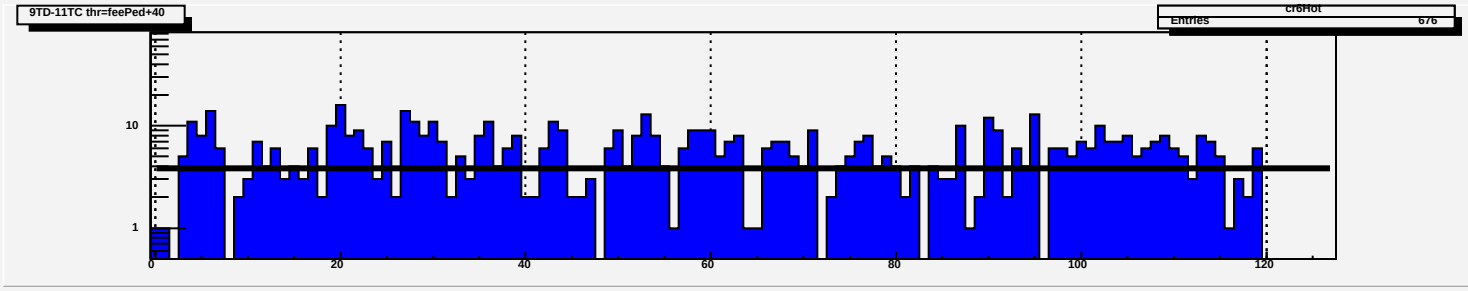

11TD-1TC thr=feePed+40
cr1Hot
Entries 3794
10
1
0
20
40
60
80
100
120

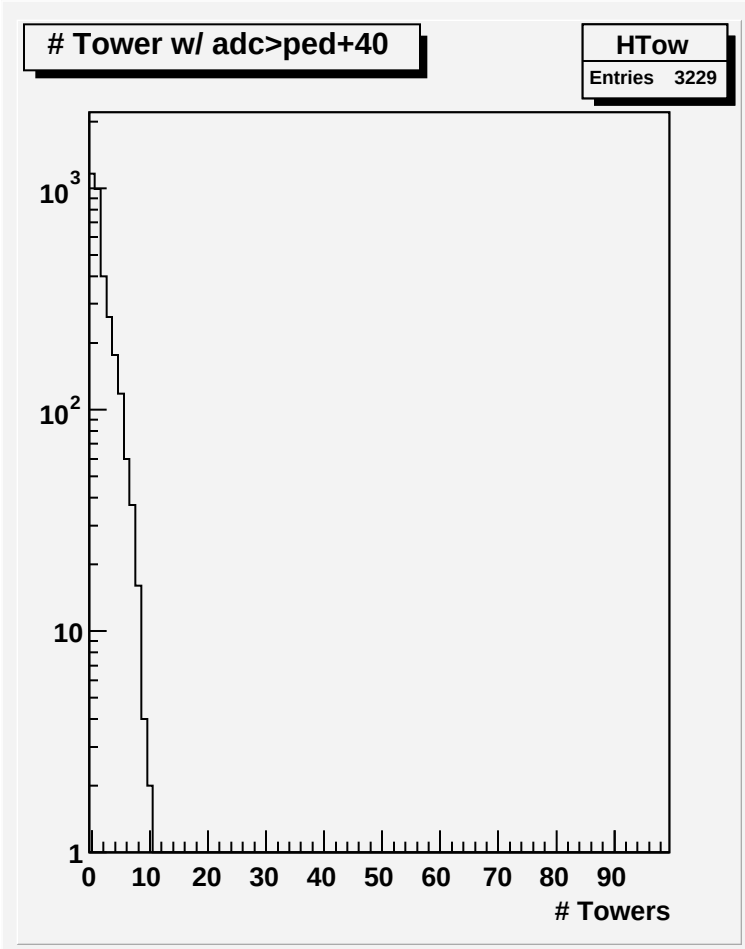

1TD-3TC thr=feePed+40
cr2Hot
Entries 571
10
1
0
20
40
60
80
100
120

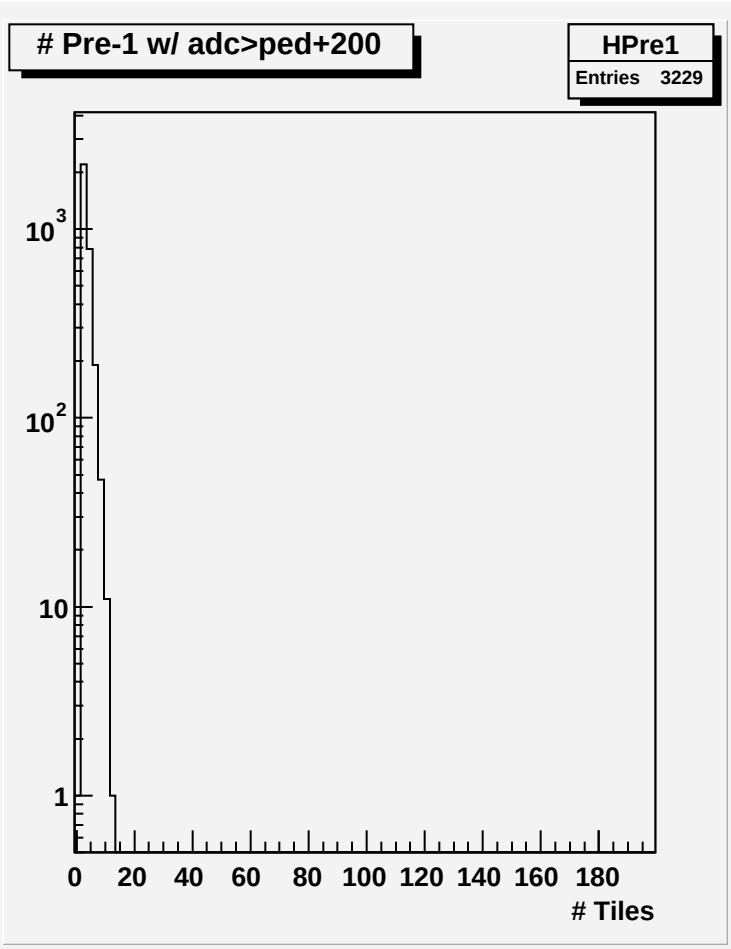

3TD-5TC thr=feePed+40
cr3Hot
Entries 678
10
1
0
20
40
60
80
100
120

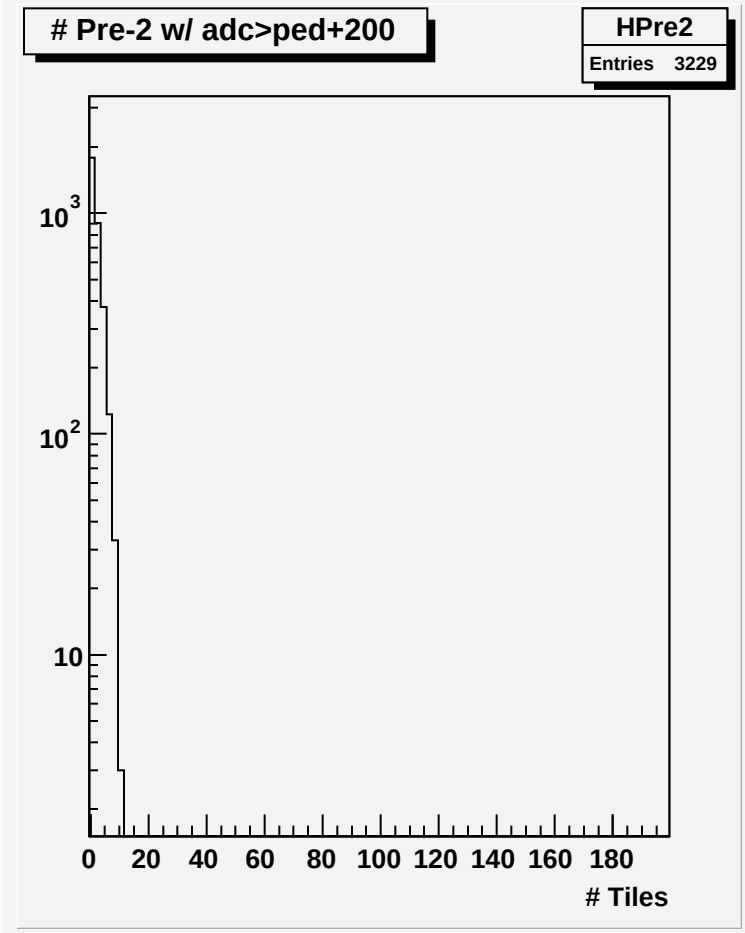

5TD-7TC thr=feePed+40
cr4Hot
Entries 573
10
1
0
20
40
60
80
100
120

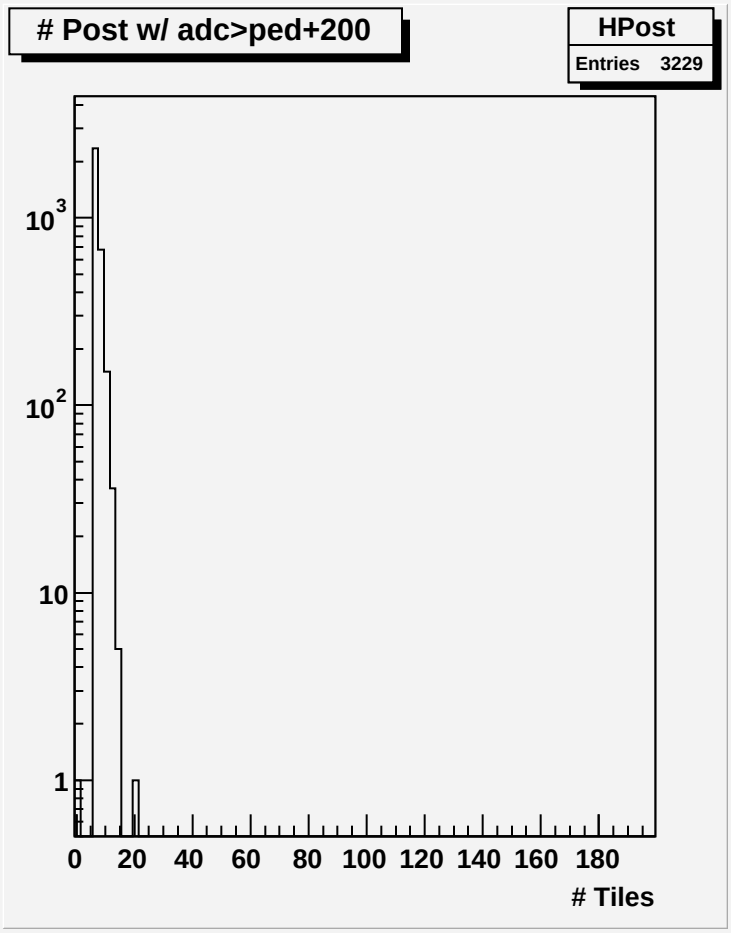

7TD-9TC thr=feePed+40
cr5Hot
Entries 597
10
1
0
20
40
60
80
100
120


9TD-11TC thr=feePed+40
cr6Hot
Entries 676
10
1
0
20
40
60
80
100
120

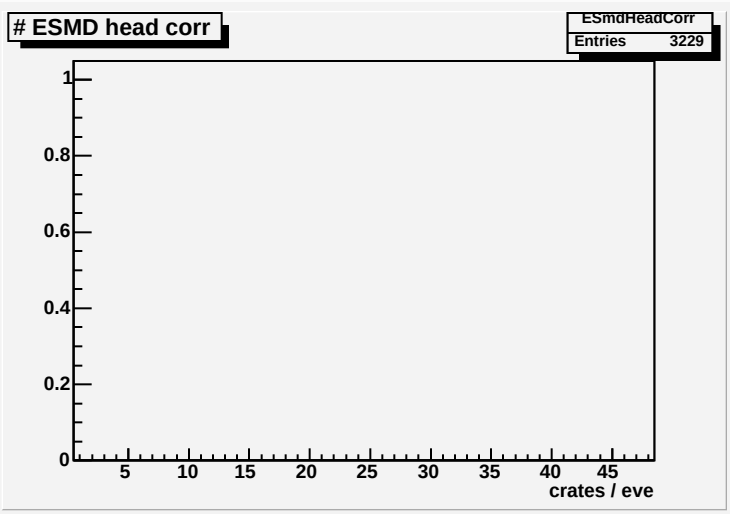

Tower w/ adc>ped+40
HTow
Entries 3229
10^3
10^2
10
1
0 10 20 30 40 50 60 70 80 90
Towers

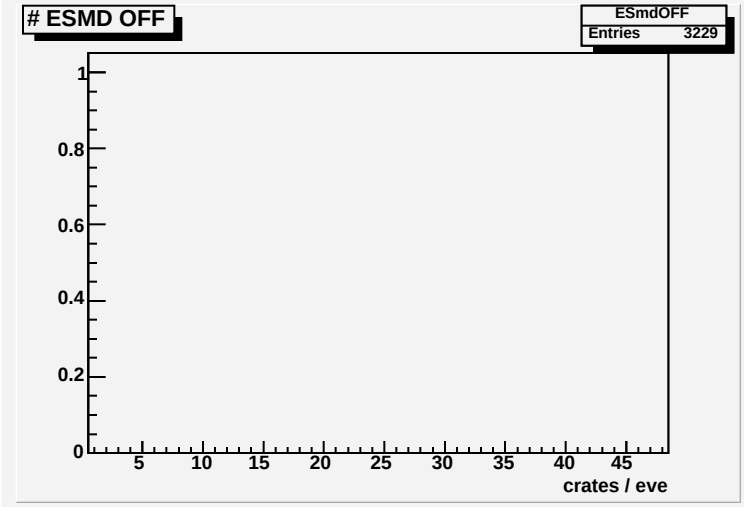

Pre-1 w/ adc>ped+200
HPre1
Entries 3229
10^3
10^2
10
1
0 20 40 60 80 100 120 140 160 180
Tiles

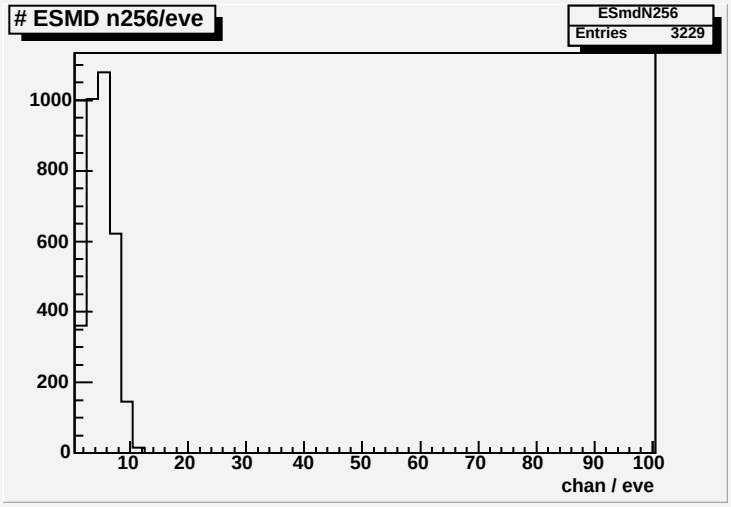

Pre-2 w/ adc>ped+200
HPre2
Entries 3229
10^3
10^2
10
0 20 40 60 80 100 120 140 160 180
Tiles

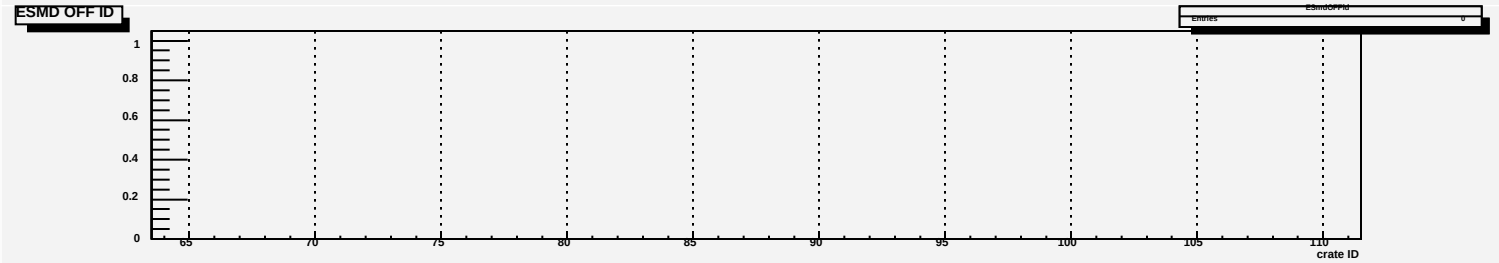

Post w/ adc>ped+200
HPost
Entries 3229
10^3
10^2
10
1
0 20 40 60 80 100 120 140 160 180
Tiles

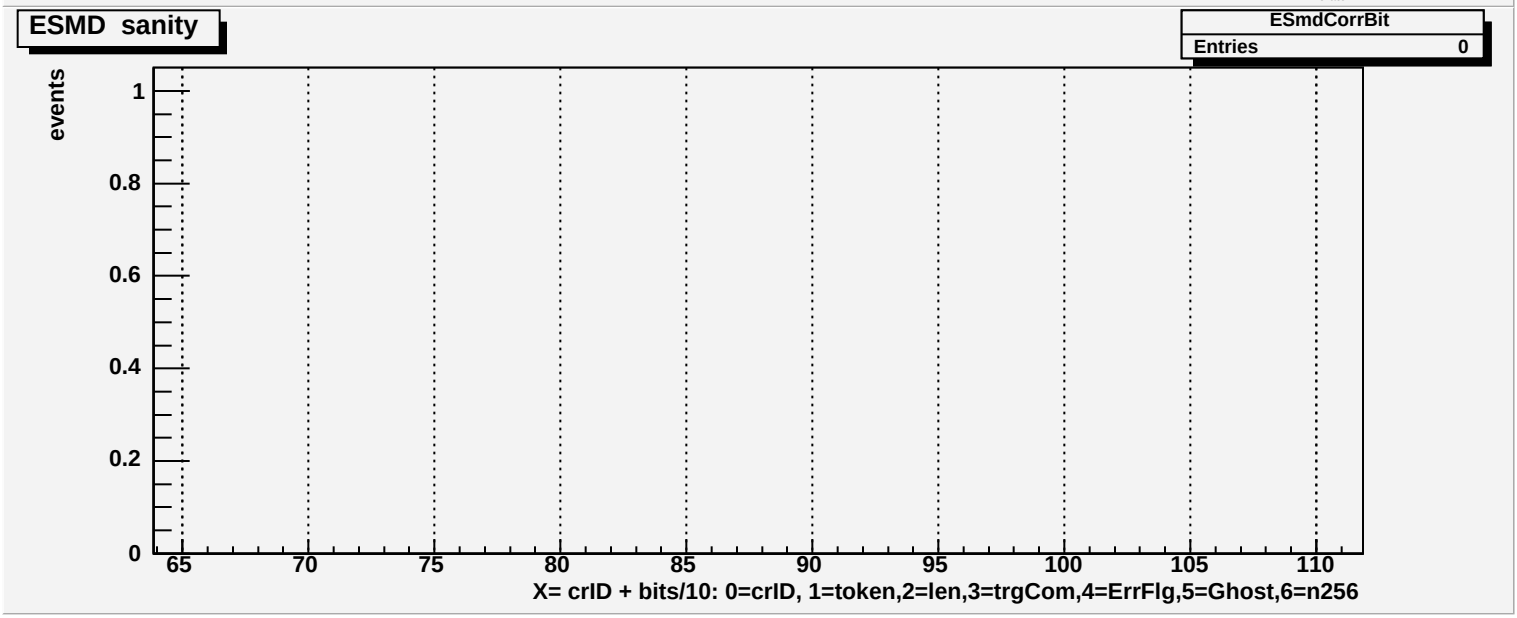
ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

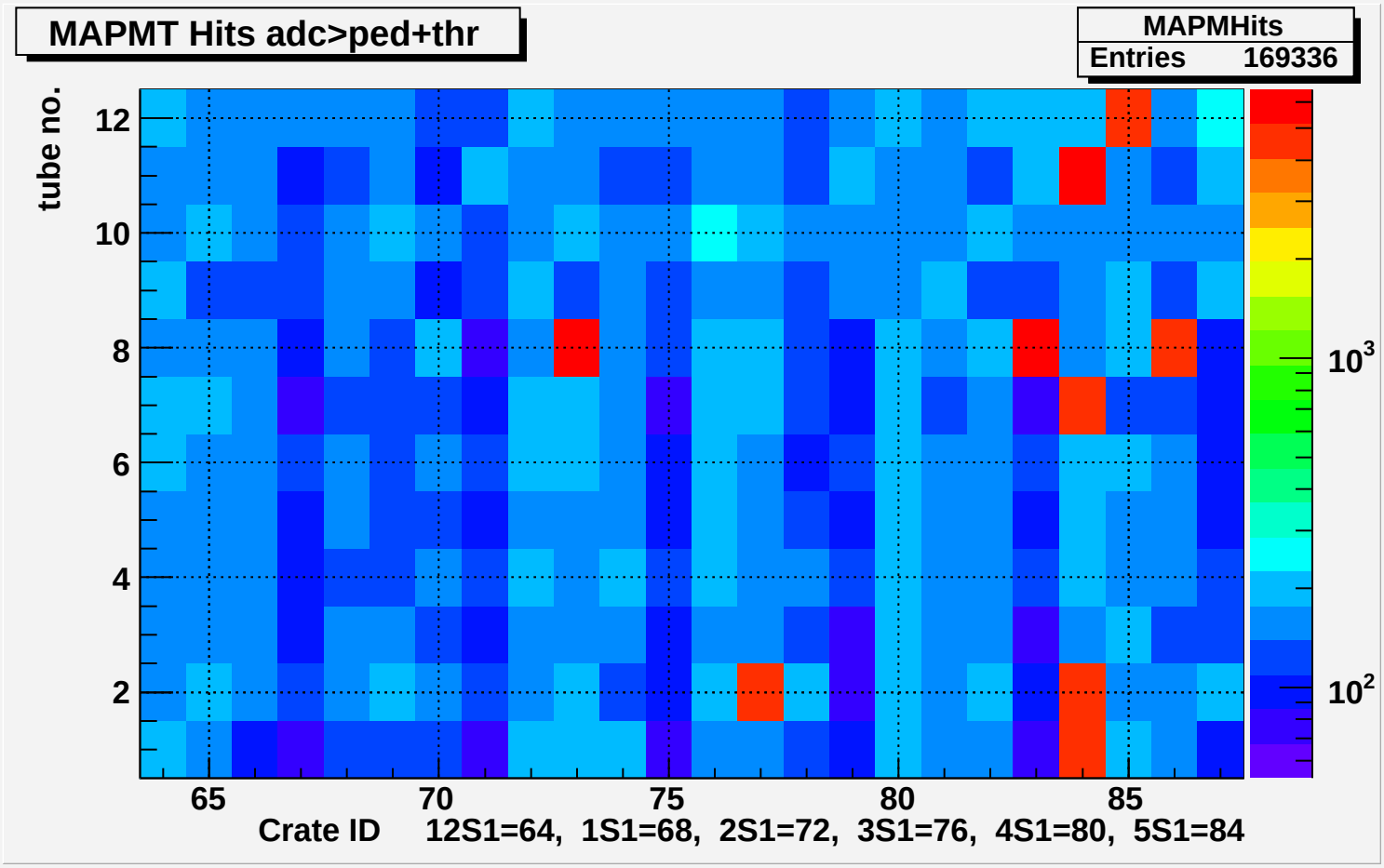

ESMD head corr
ESmdHeadCorr
Entries 3229
crates / eve

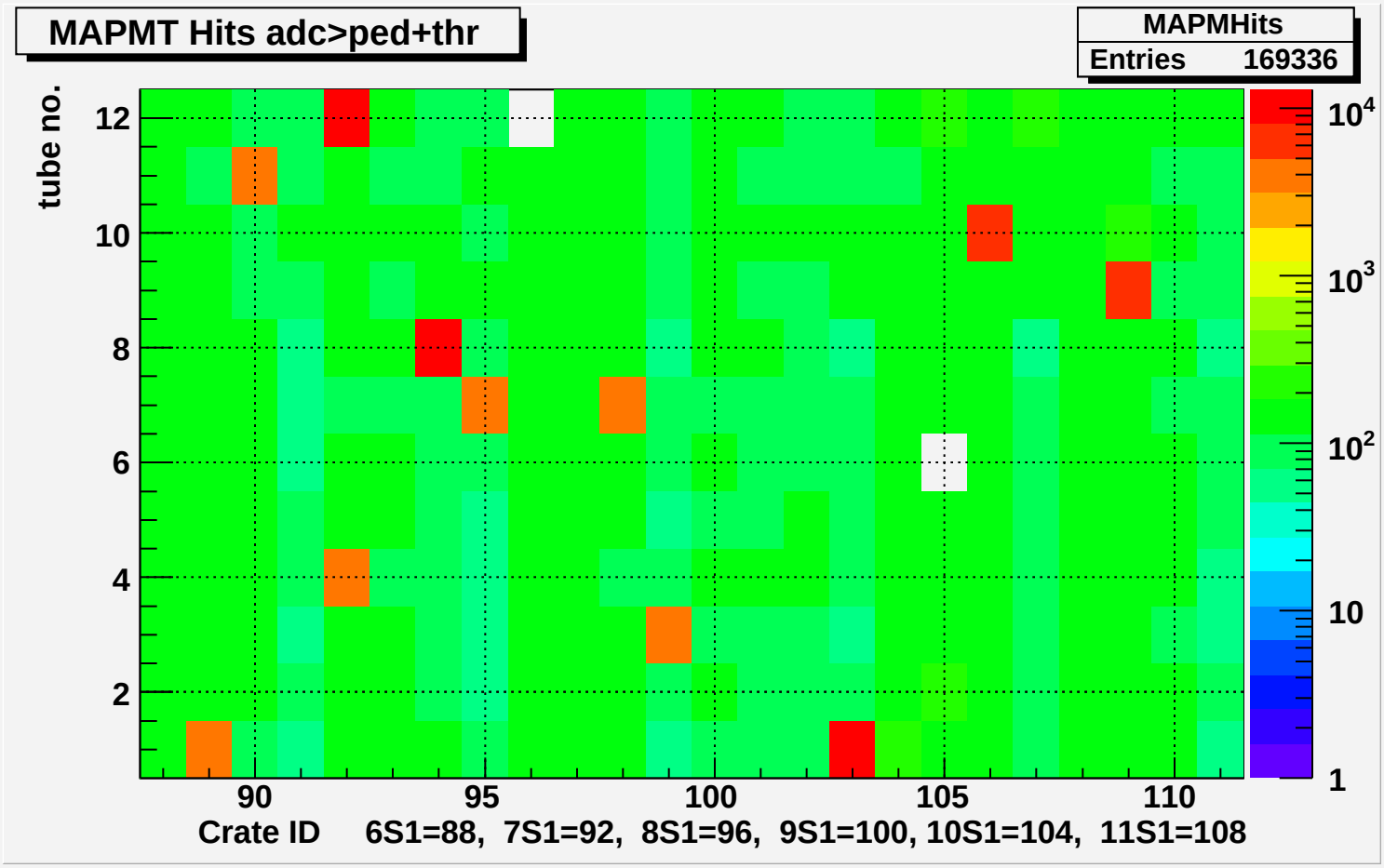

ESMD OFF
ESmdOFF
Entries 3229
crates / eve

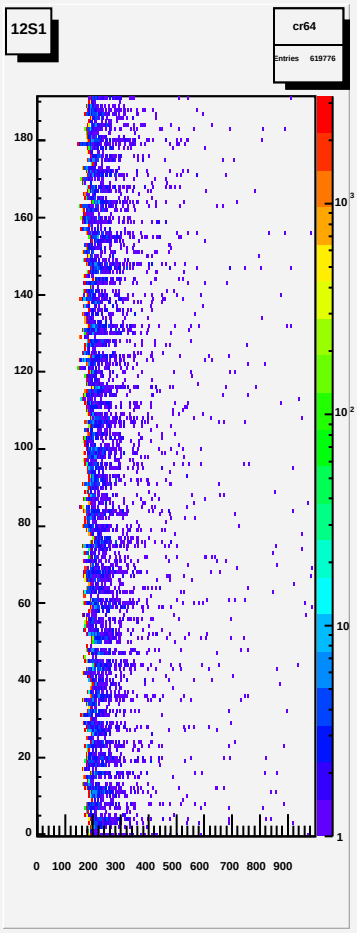

ESMD n256/eve
ESmdN256
Entries 3229
chan / eve

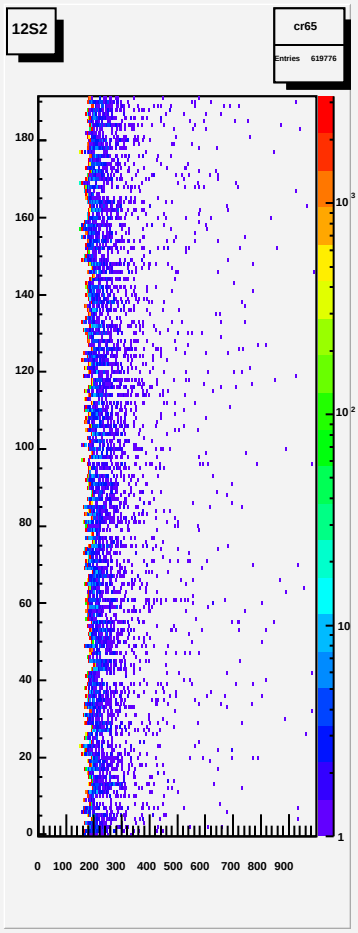

ESMD OFF ID
crate ID

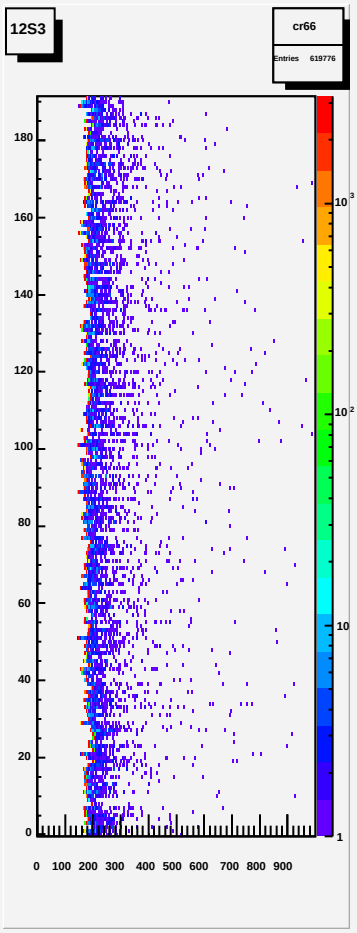

ESMD sanity
ESmdCorrBit
Entries 0
events
X= crID + bits/10: 0=crID, 1=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

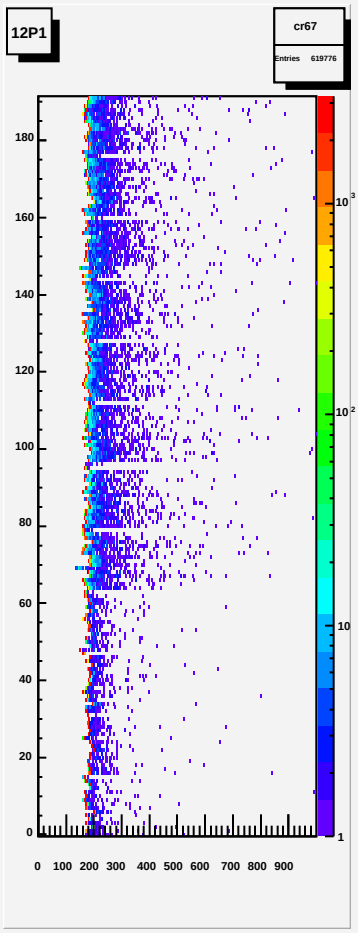

MAPMT Hits adc>ped+thr
MAPMHits
Entries 169336
tube no.
12
10
8
6
4
2
65
70
75
80
85
Crate ID 12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
10^3
10^2

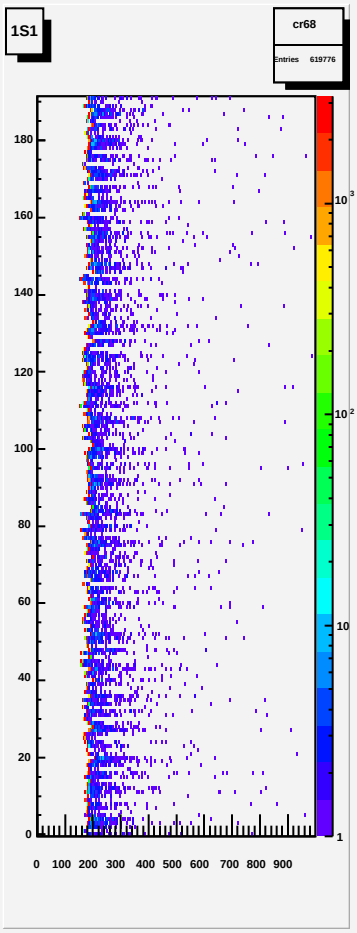

MAPMT Hits adc>ped+thr
MAPMHits
Entries 169336
tube no.
12
10
8
6
4
2
90
95
100
105
110
Crate ID 6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
10^4
10^3
10^2
10
1

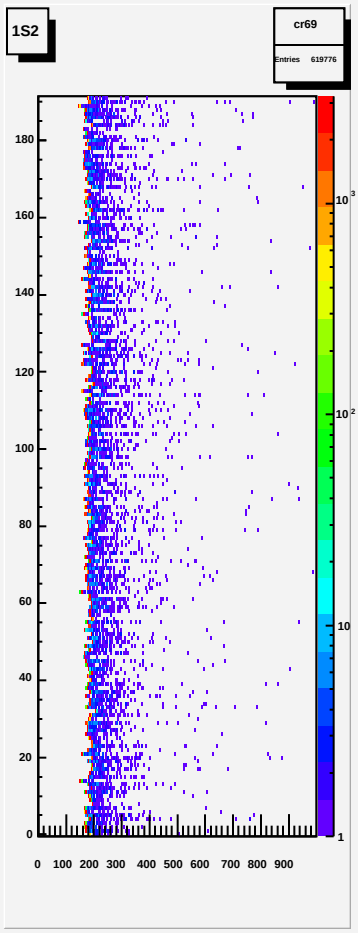

12S1
cr64
Entries 619776

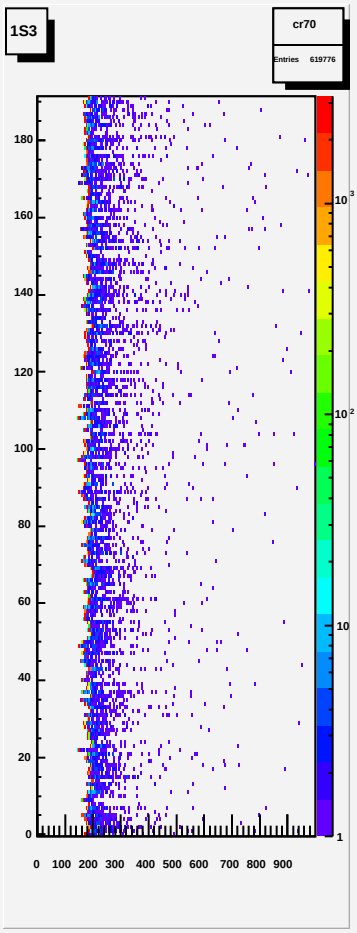

12S2
cr65
Entries 619776

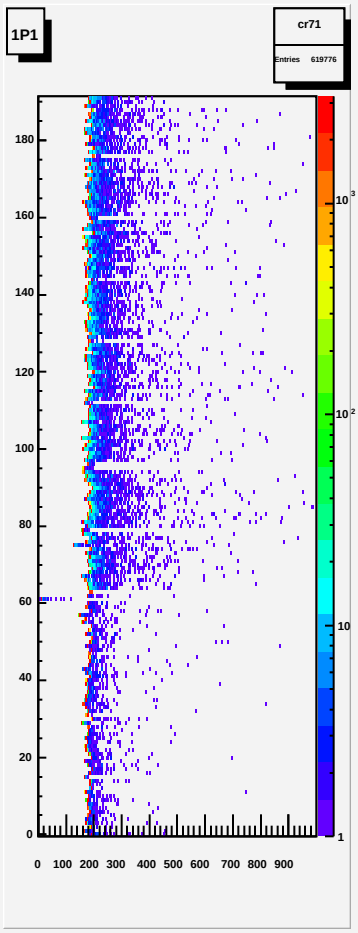

12S3
cr66
Entries 619776

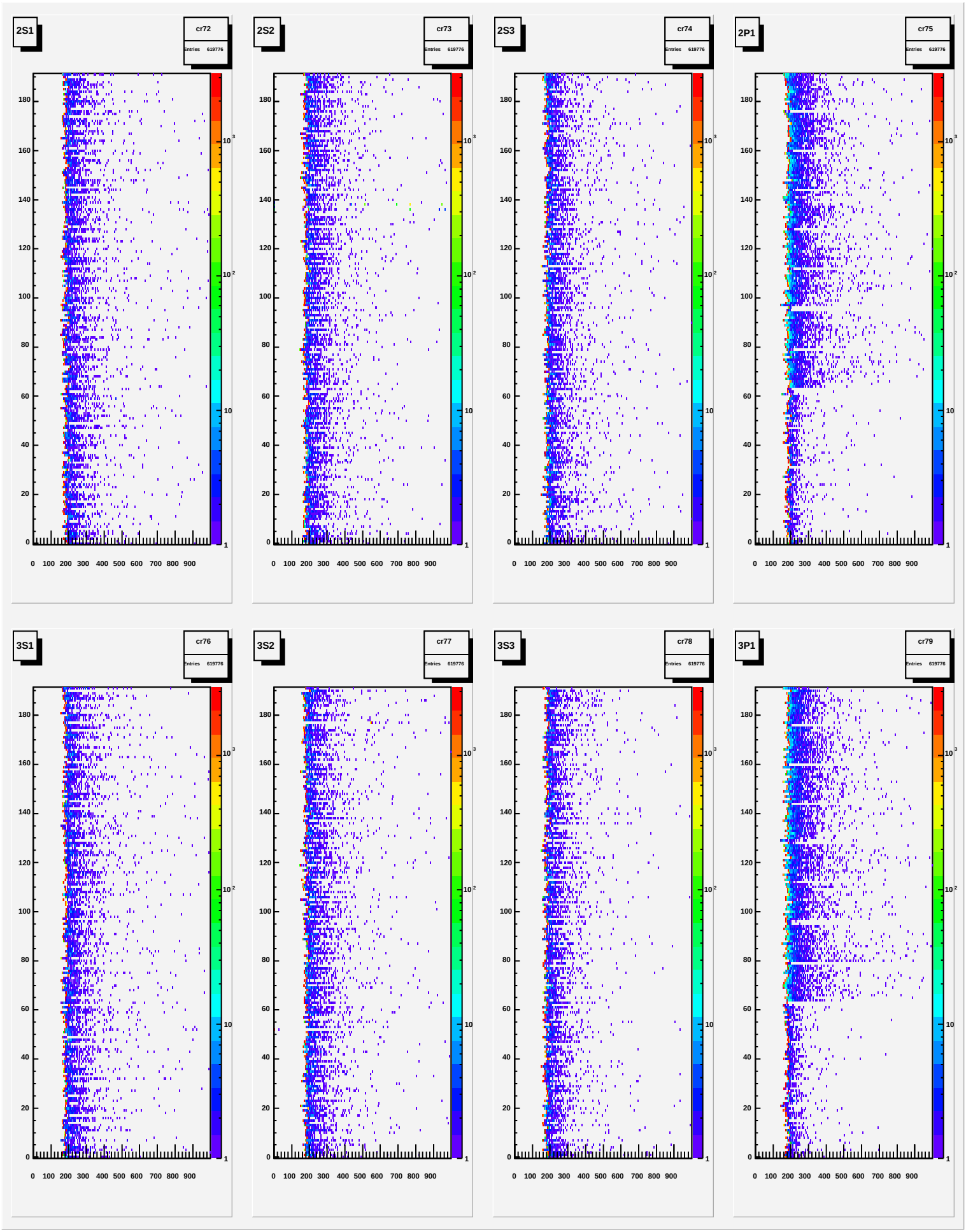

12P1
cr67
Entries 619776

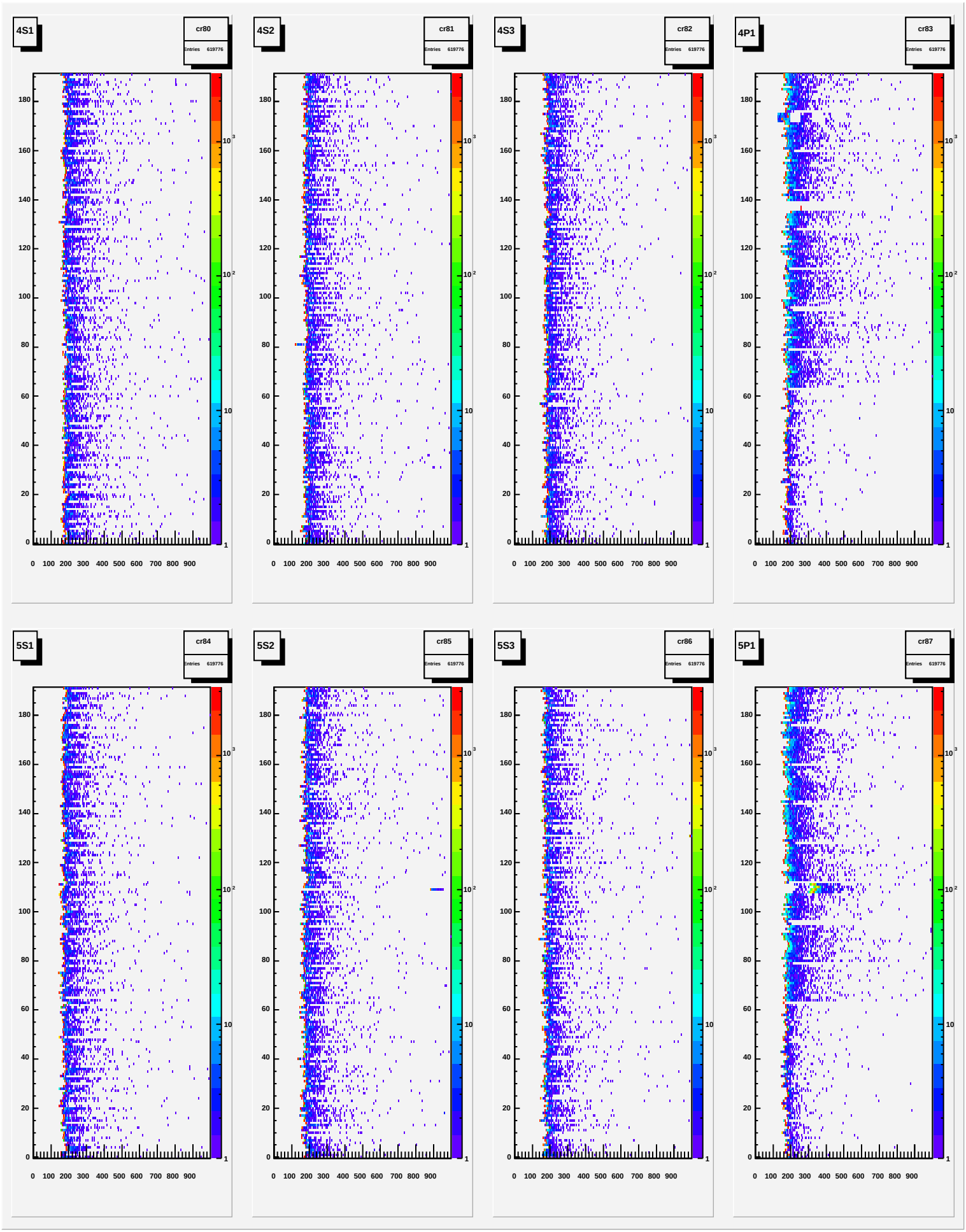

1S1
cr68
Entries 619776

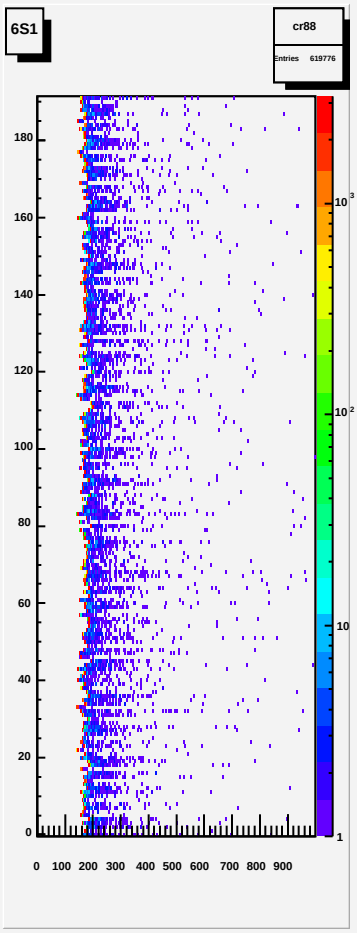

1S2
cr69
Entries 619776

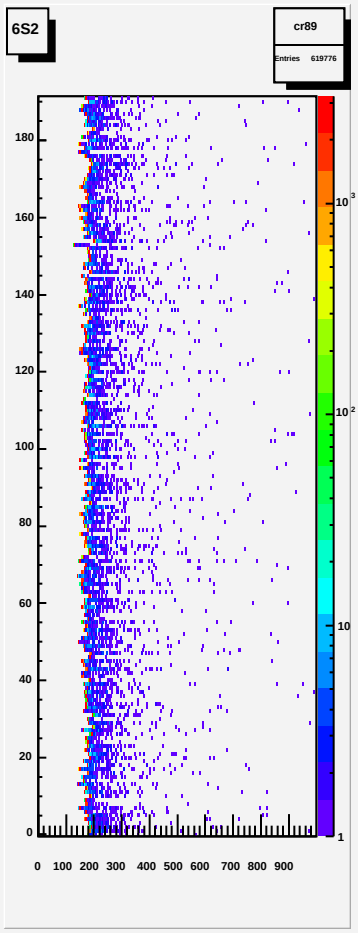

1S3
cr70
Entries 619776

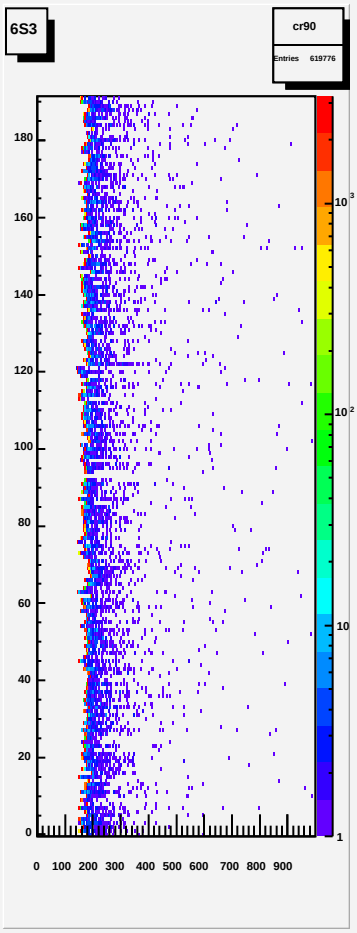

1P1
cr71
Entries 619776

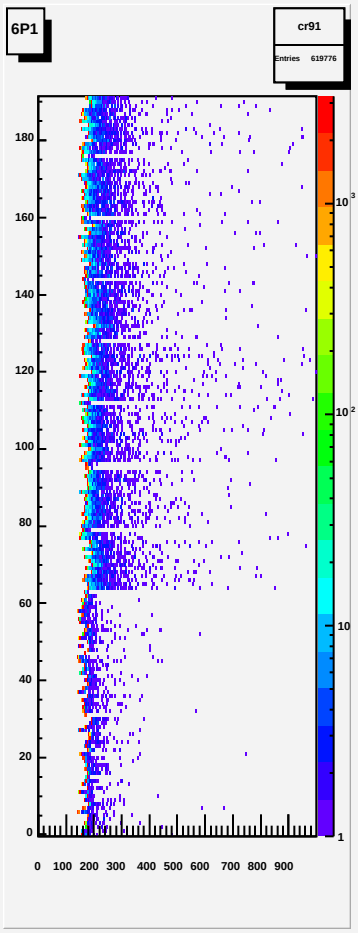

2S1
cr72
Entries 619776
2S2
cr73
Entries 619776
2S3
cr74
Entries 619776
2P1
cr75
Entries 619776
3S1
cr76
Entries 619776
3S2
cr77
Entries 619776
3S3
cr78
Entries 619776
3P1
cr79
Entries 619776
0 100 200 300 400 500 600 700 800 900
0 20 40 60 80 100 120 140 160 180
1 10 10^2 10^3

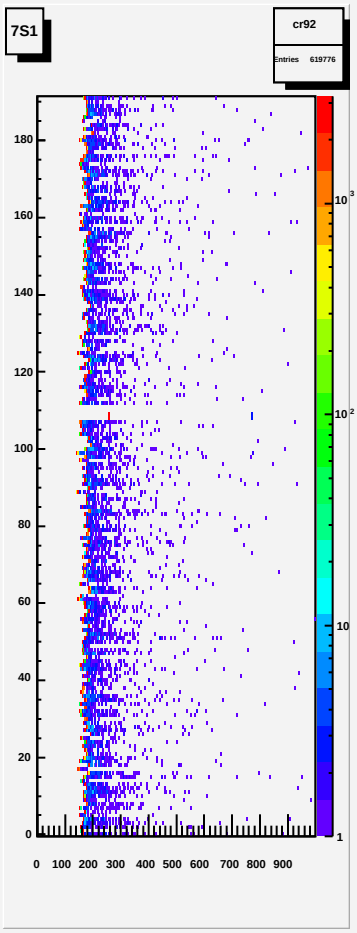

4S1
cr80
Entries 619776
4S2
cr81
Entries 619776
4S3
cr82
Entries 619776
4P1
cr83
Entries 619776
5S1
cr84
Entries 619776
5S2
cr85
Entries 619776
5S3
cr86
Entries 619776
5P1
cr87
Entries 619776
0 100 200 300 400 500 600 700 800 900
0 20 40 60 80 100 120 140 160 180
1 10 10^2 10^3

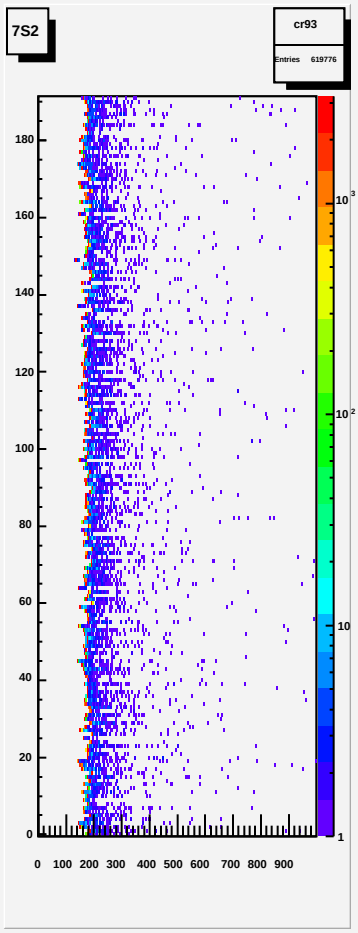

6S1
cr88
Entries 619776

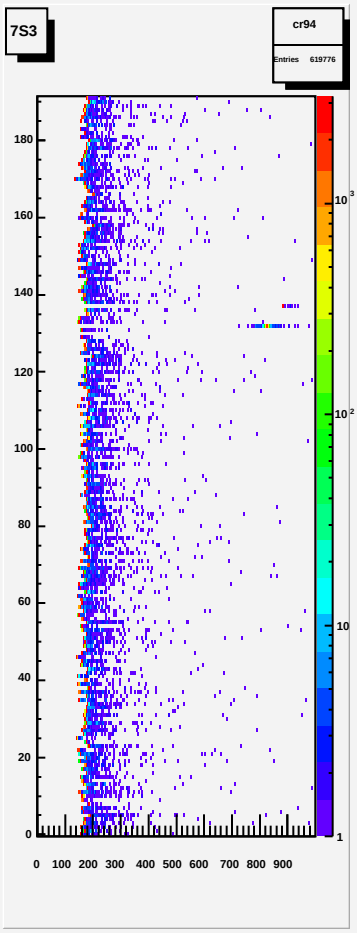

6S2
cr89
Entries 619776

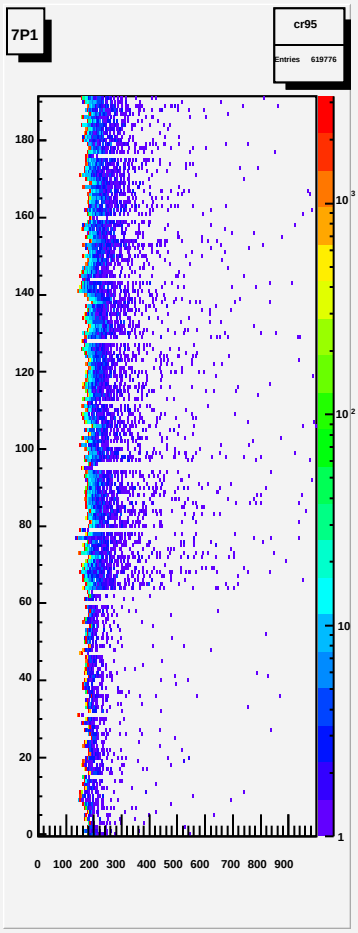

6S3
cr90
Entries 619776

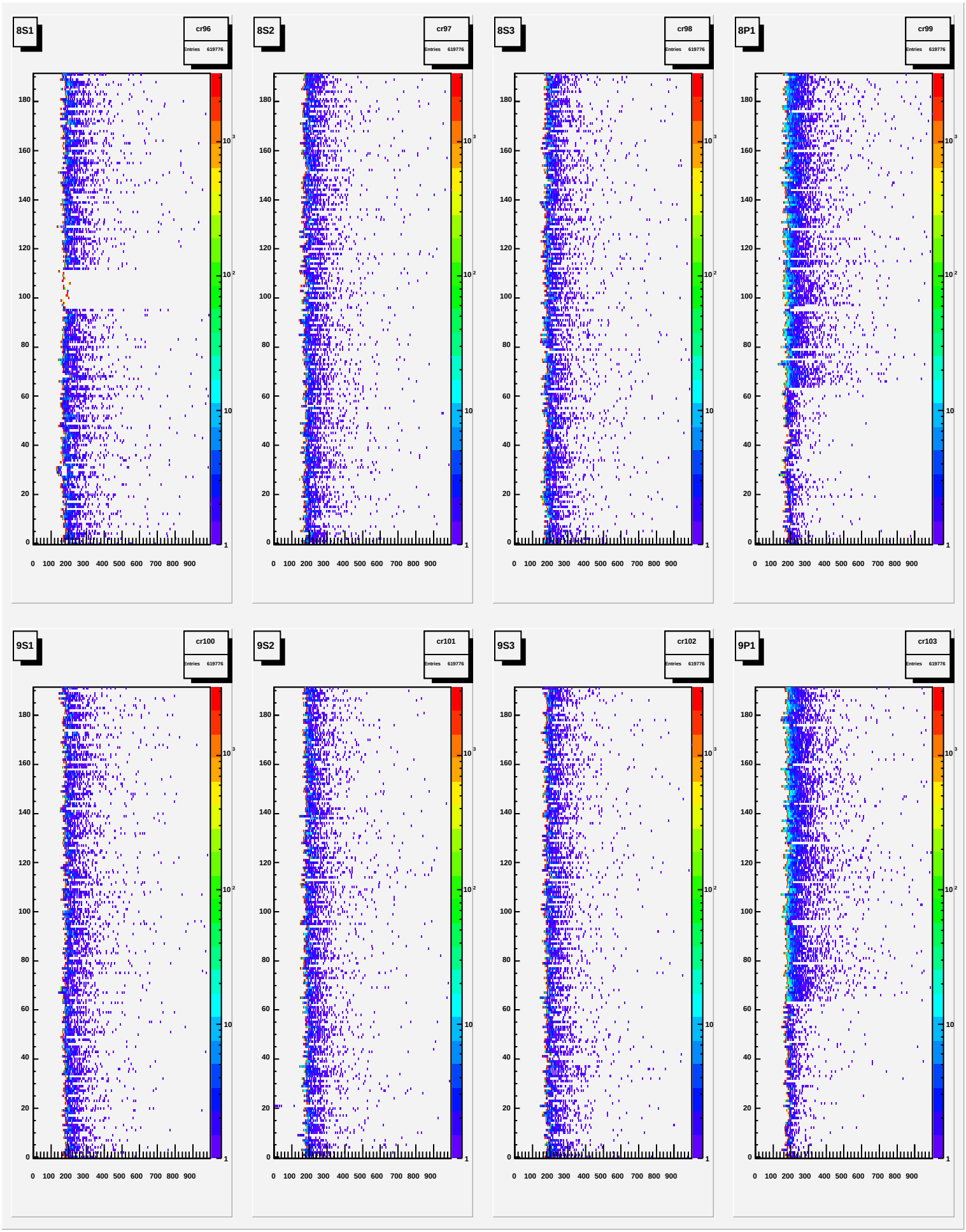

6P1
cr91
Entries 619776

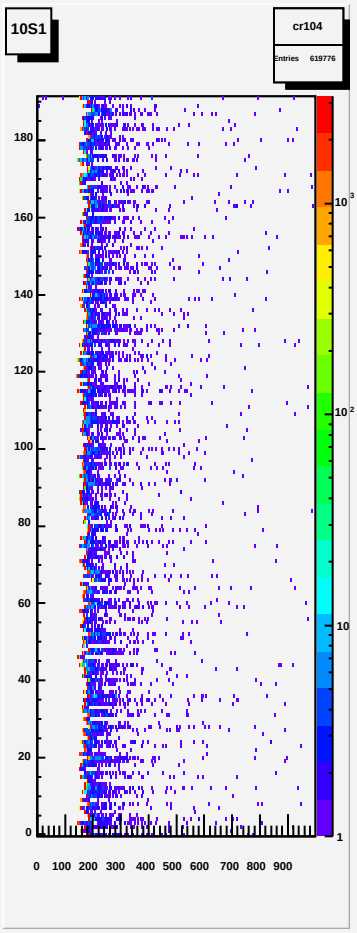

7S1
cr92
Entries 619776

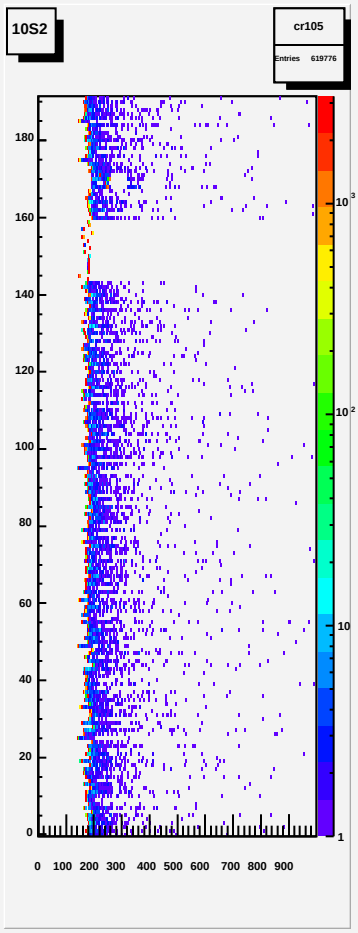

7S2
cr93
Entries 619776

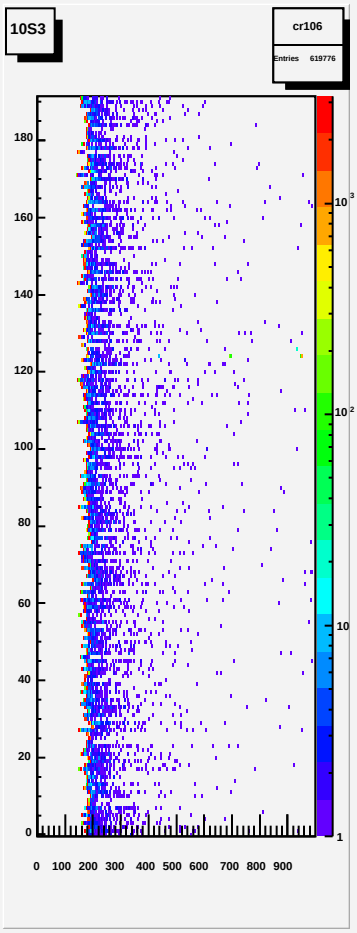

7S3
cr94
Entries 619776

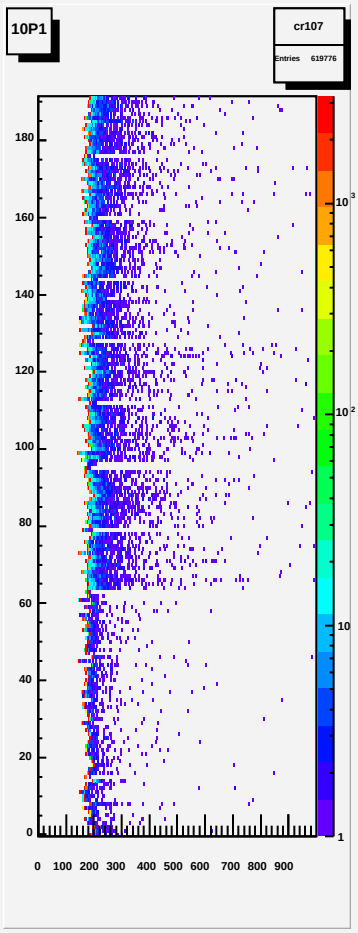

7P1
cr95
Entries 619776

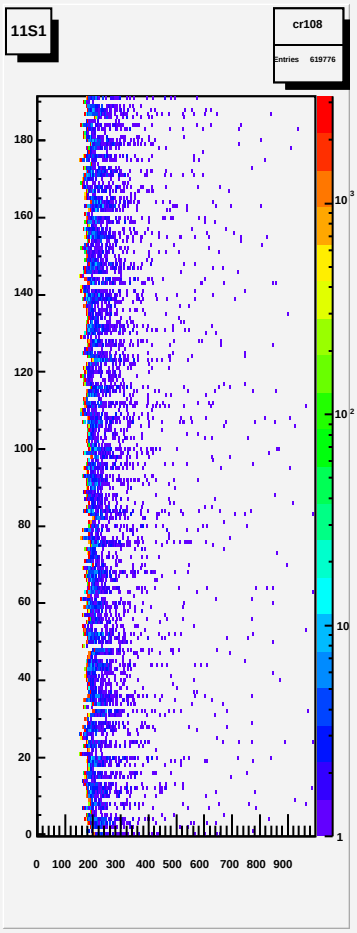

8S1
cr96
Entries 619776
8S2
cr97
Entries 619776
8S3
cr98
Entries 619776
8P1
cr99
Entries 619776
9S1
cr100
Entries 619776
9S2
cr101
Entries 619776
9S3
cr102
Entries 619776
9P1
cr103
Entries 619776
0 20 40 60 80 100 120 140 160 180
0 100 200 300 400 500 600 700 800 900
1
10
10 2
10 3

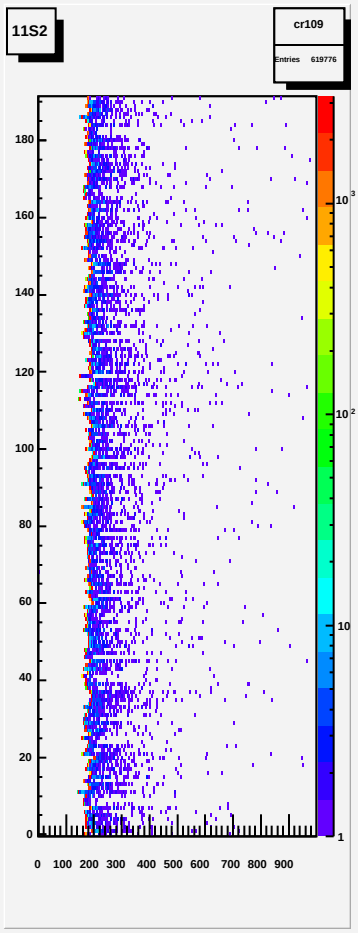

10S1
cr104
Entries 619776


10S2
cr105
Entries 619776


10S3
cr106
Entries 619776


10P1
cr107
Entries 619776


11S1
cr108
Entries 619776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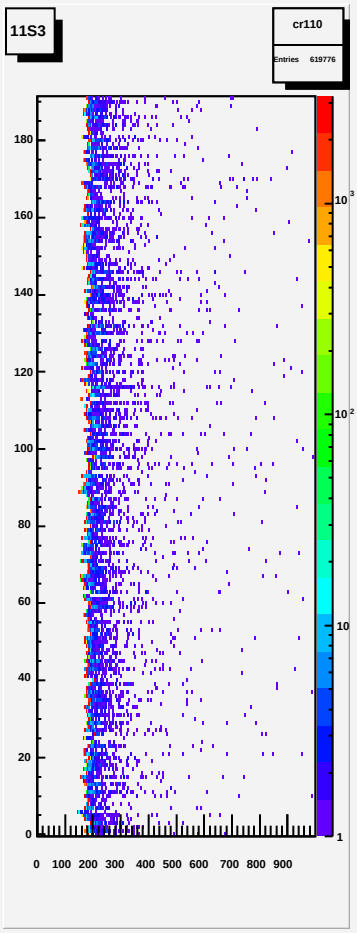
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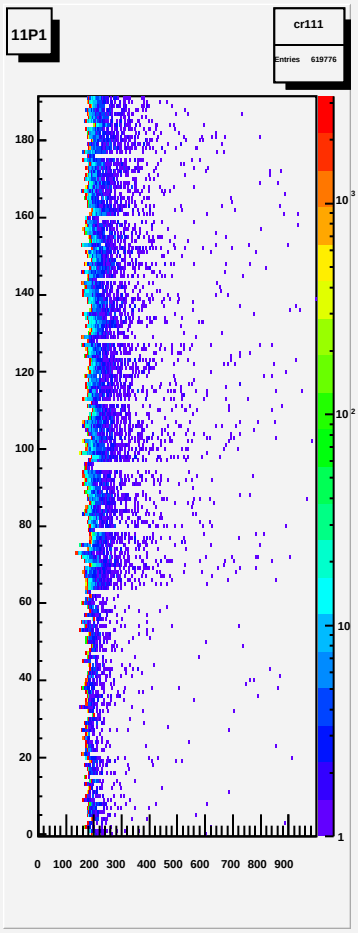
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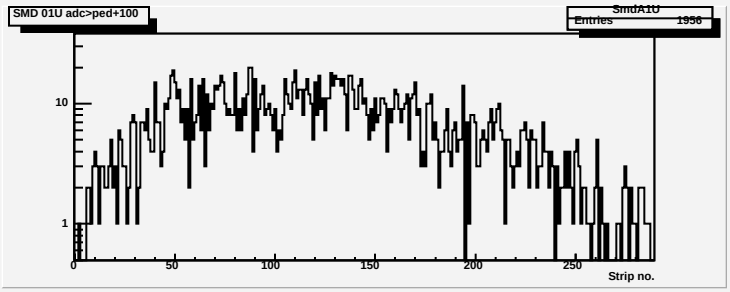
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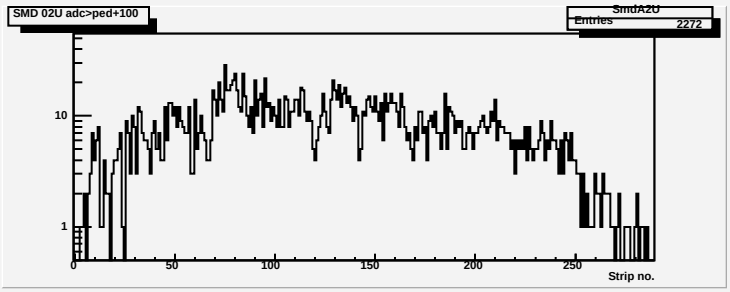
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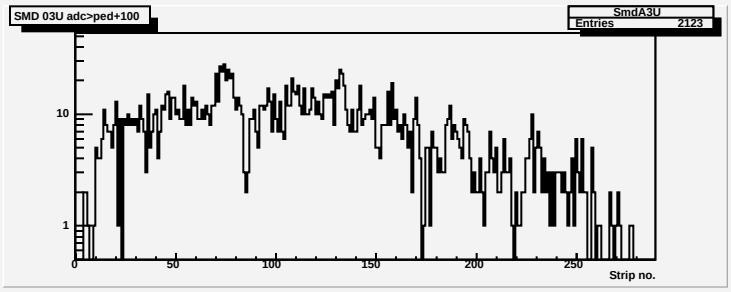
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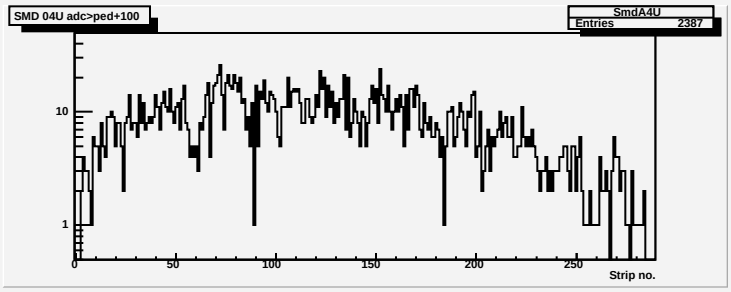
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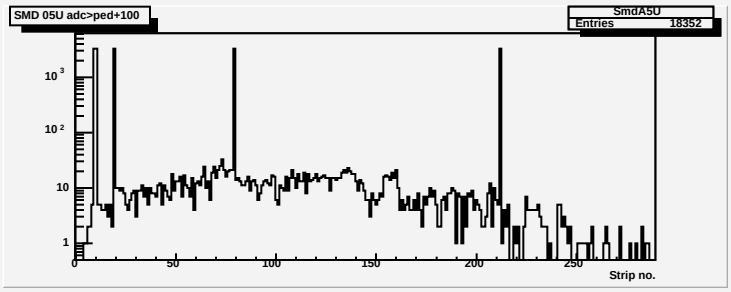
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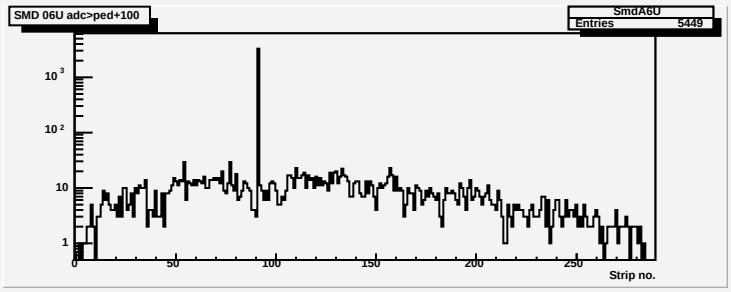
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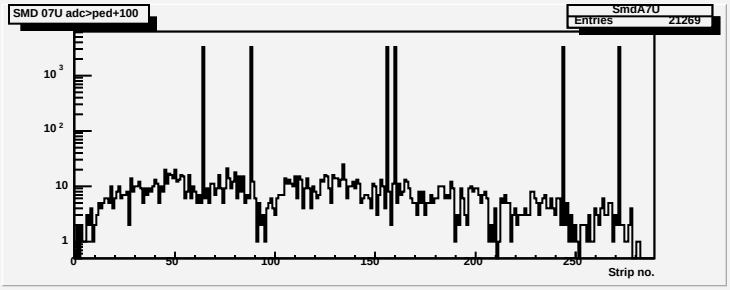
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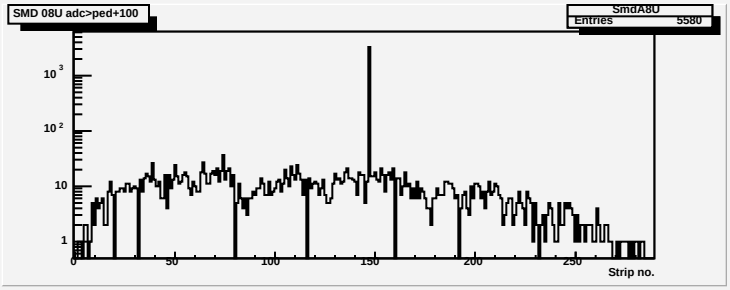
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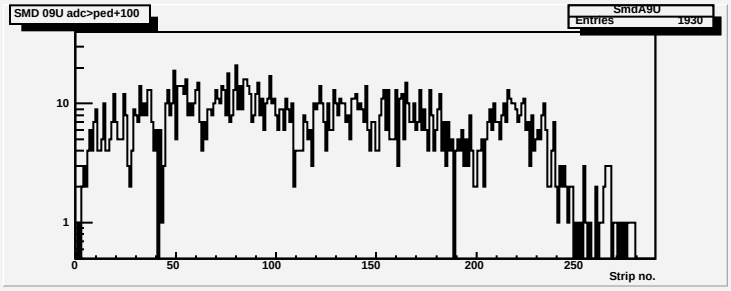
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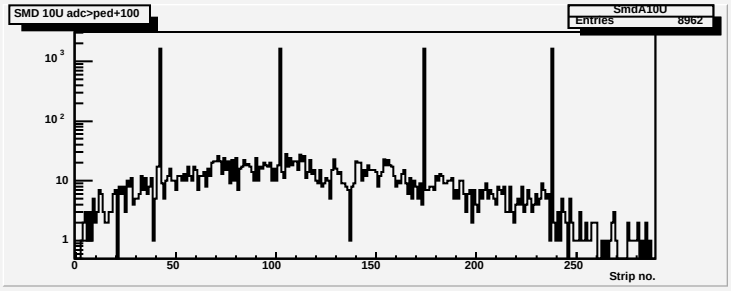
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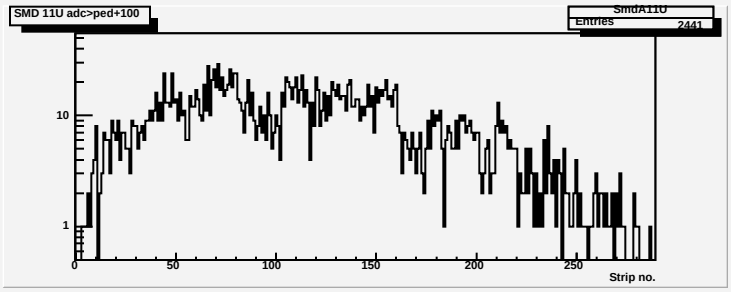
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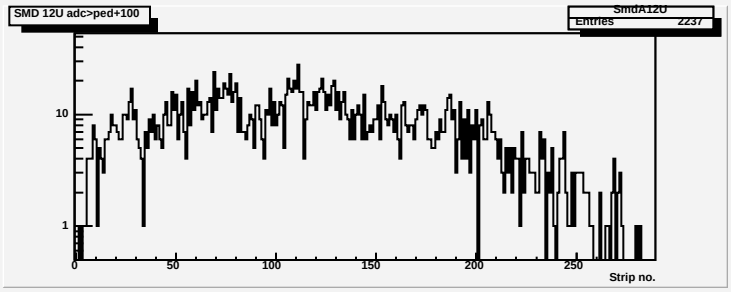
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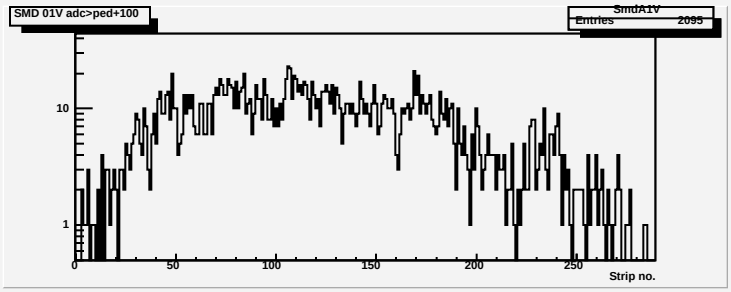
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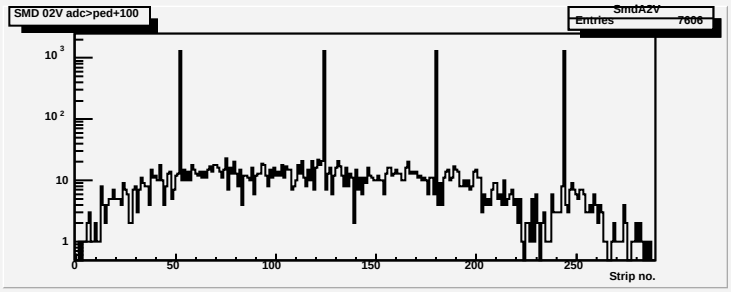
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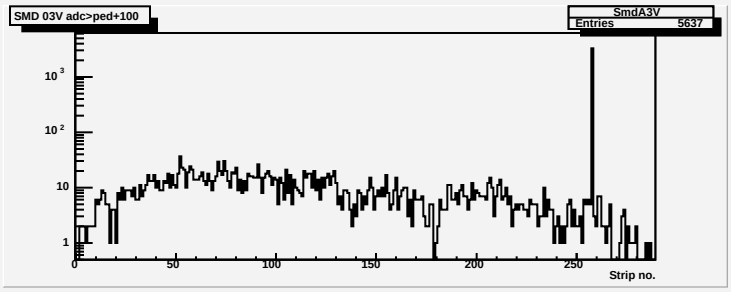
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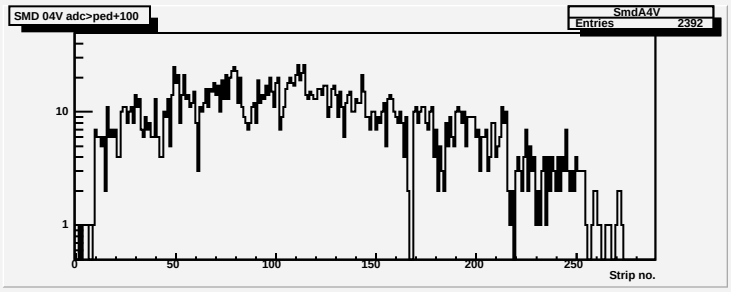
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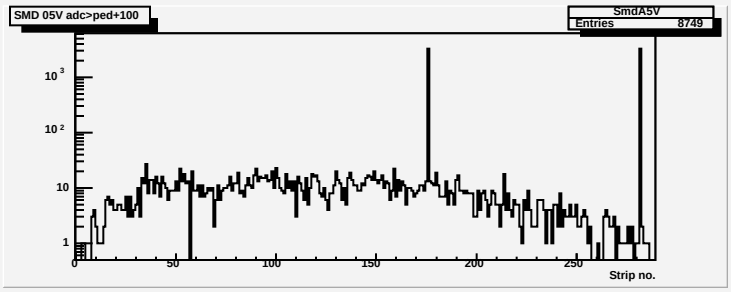
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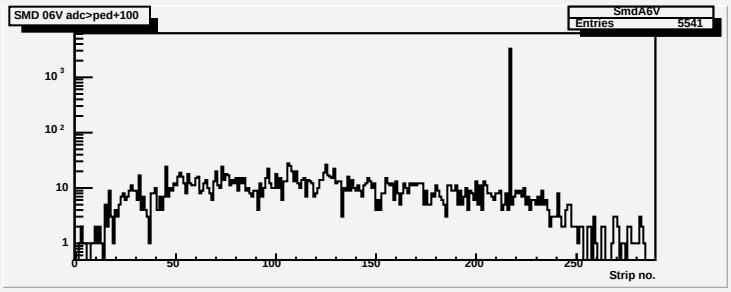
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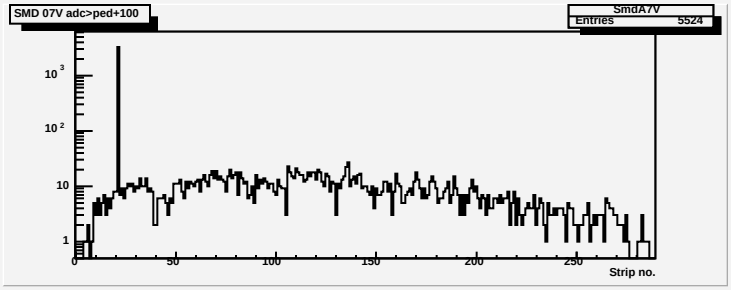
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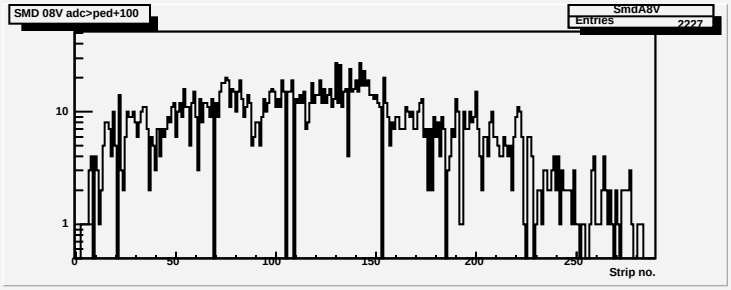
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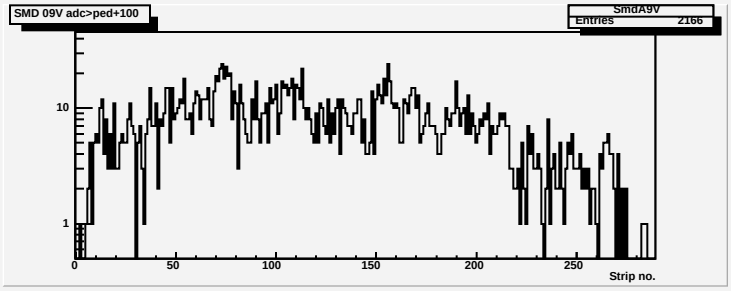
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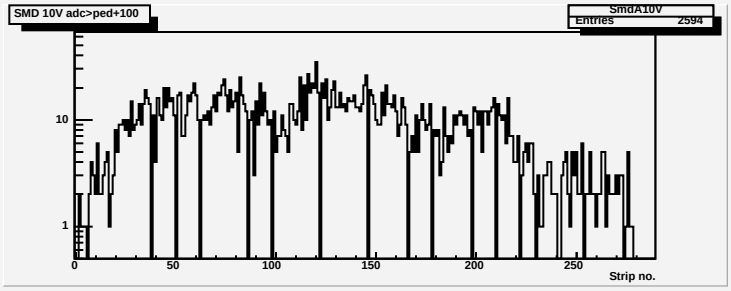
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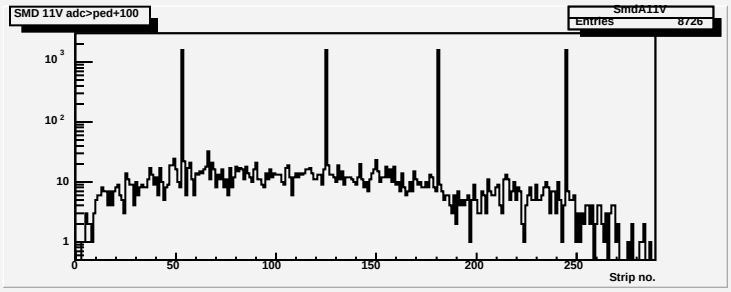
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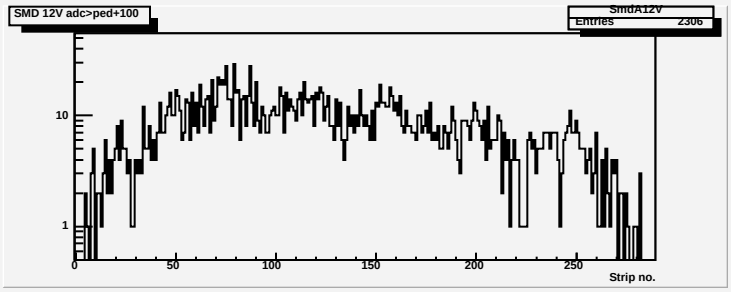
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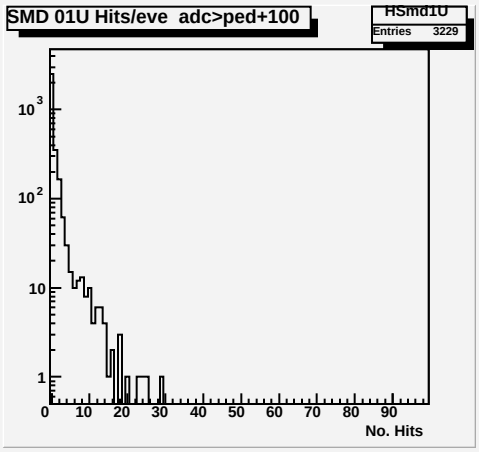
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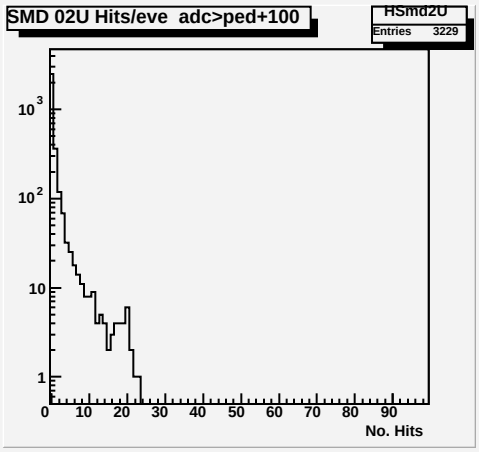
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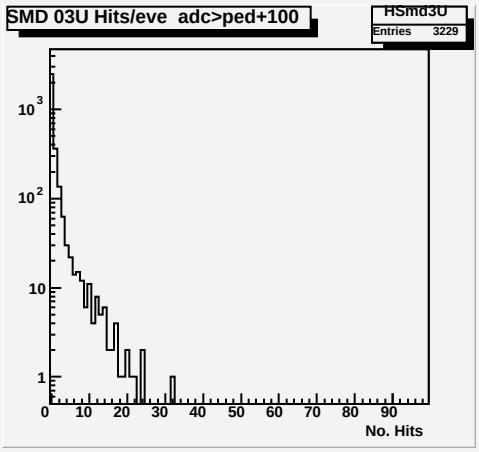
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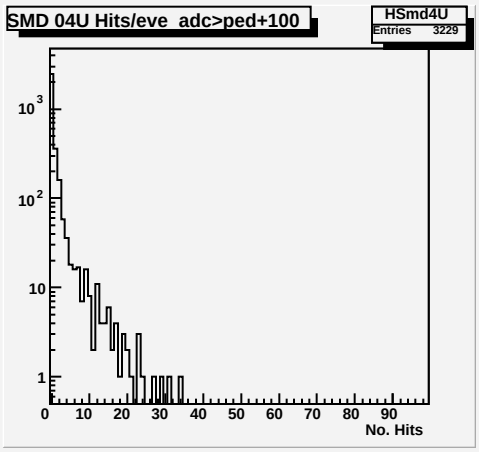
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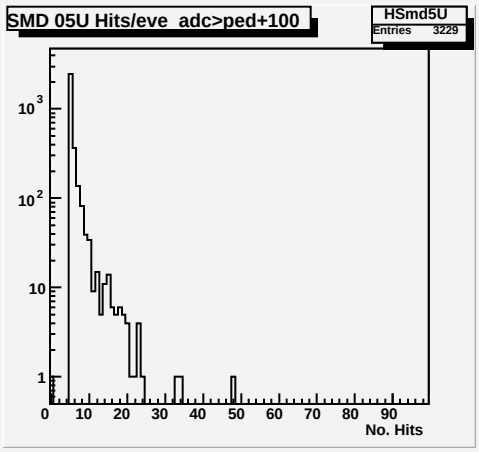
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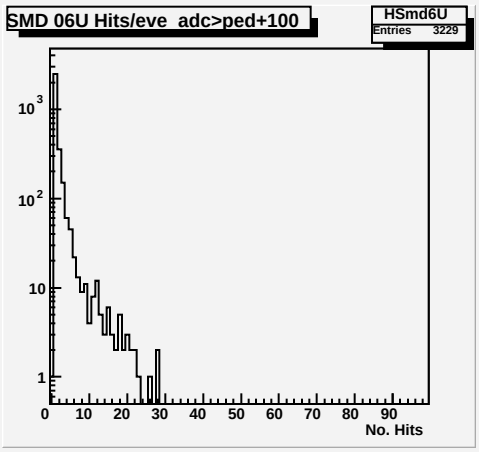
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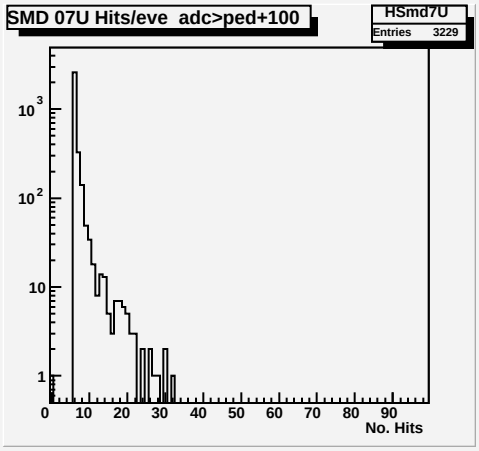
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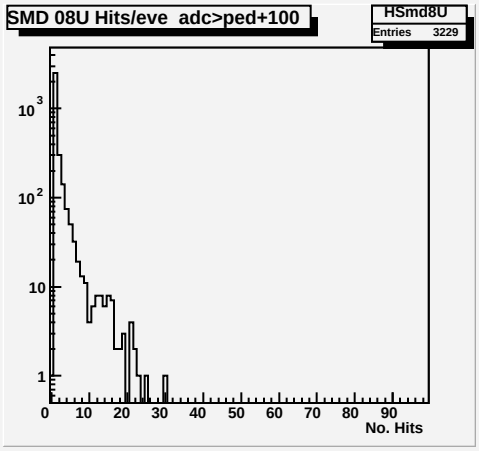
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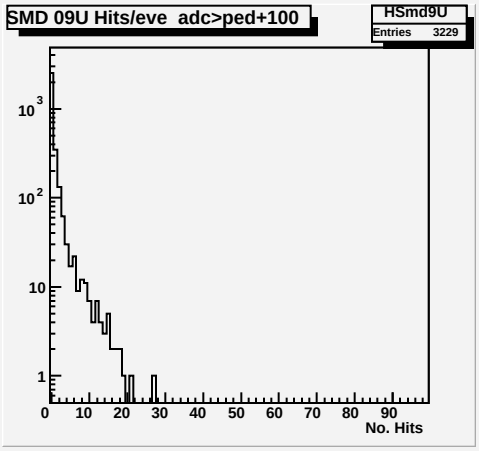
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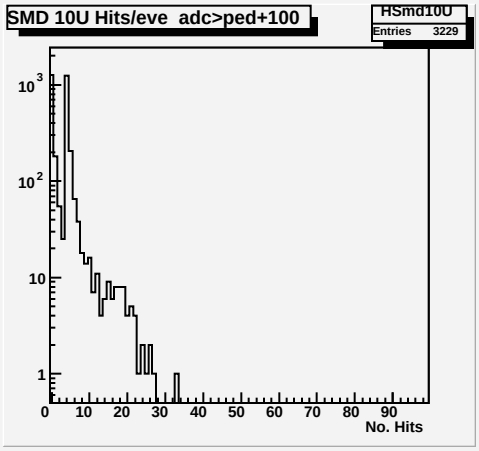
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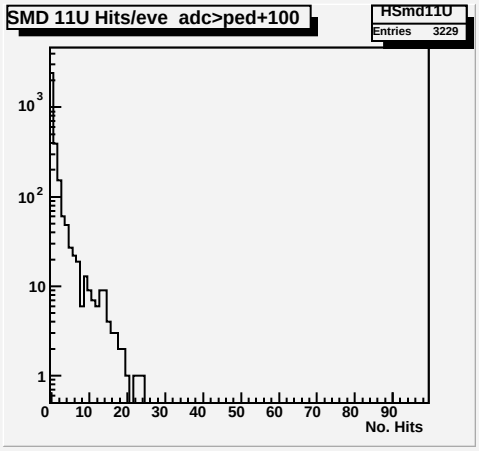
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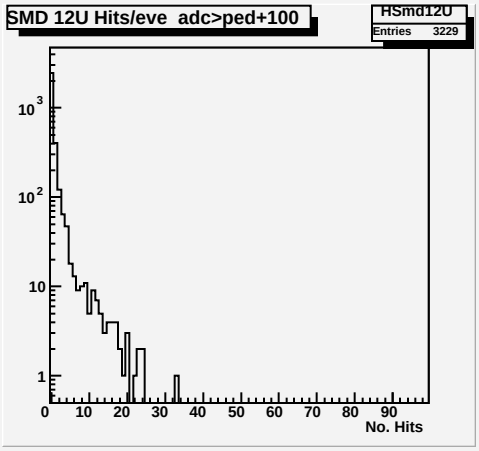
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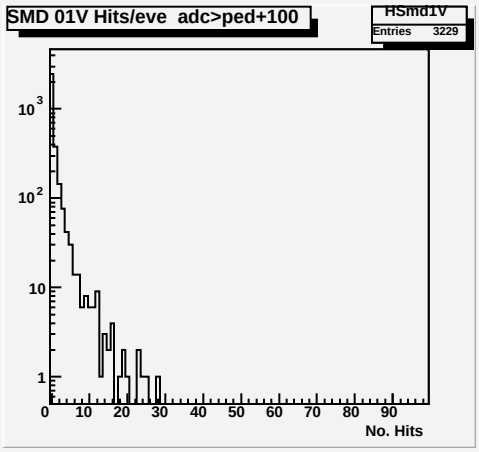
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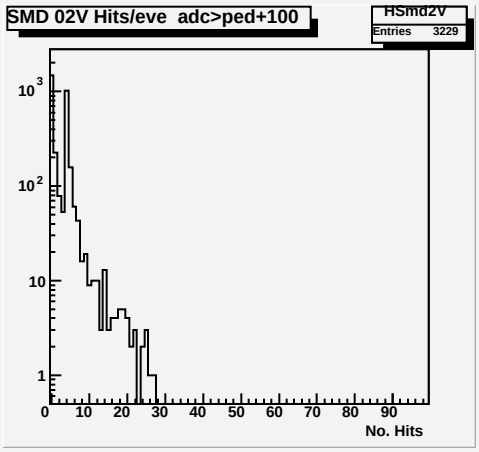
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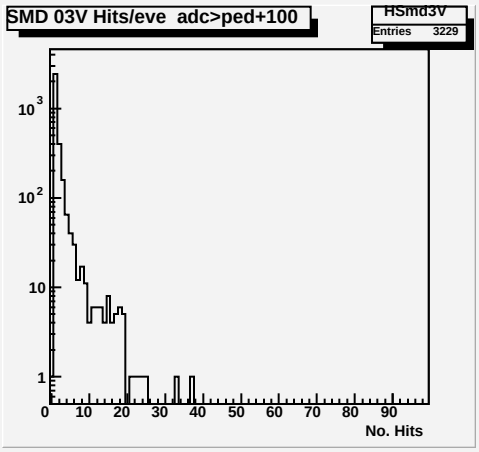
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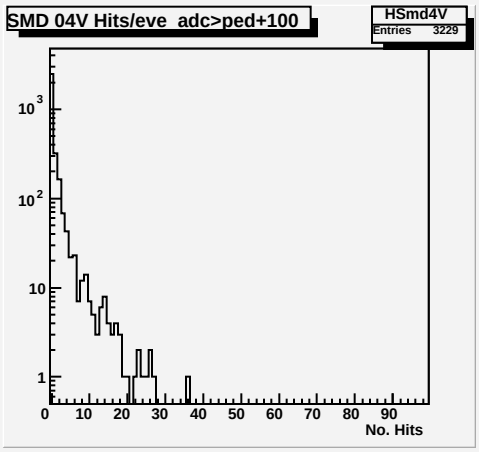
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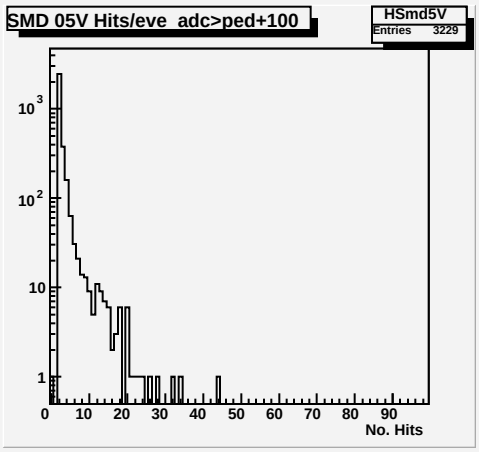
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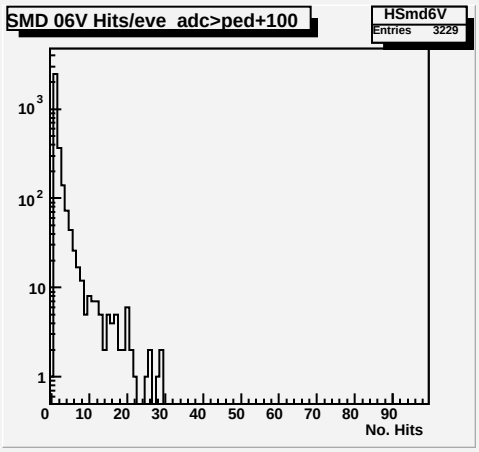
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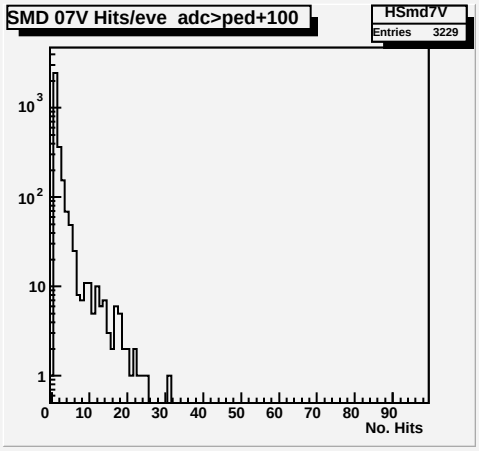
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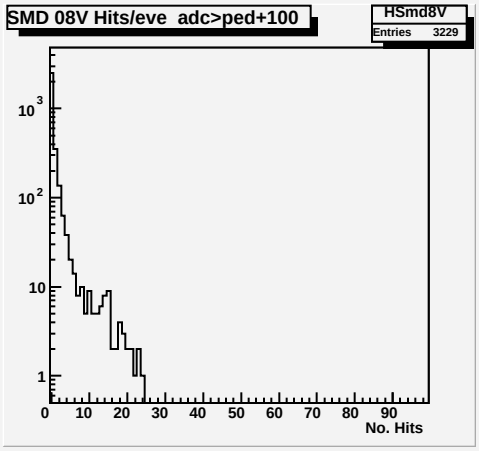
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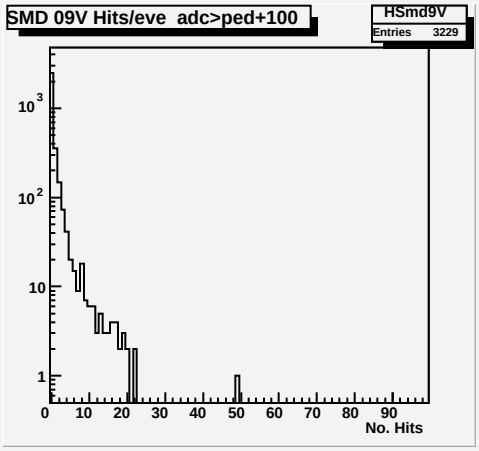
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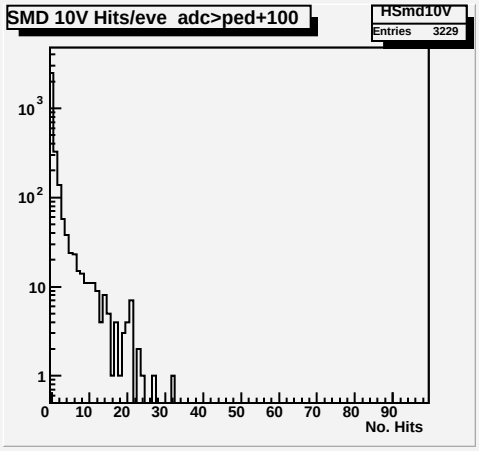
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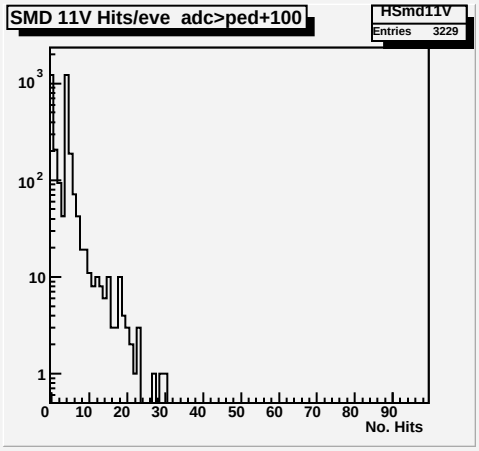
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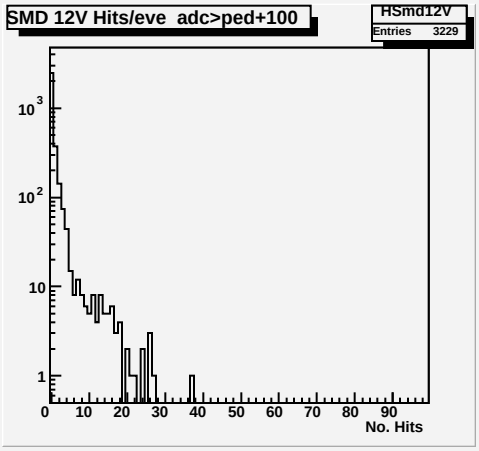
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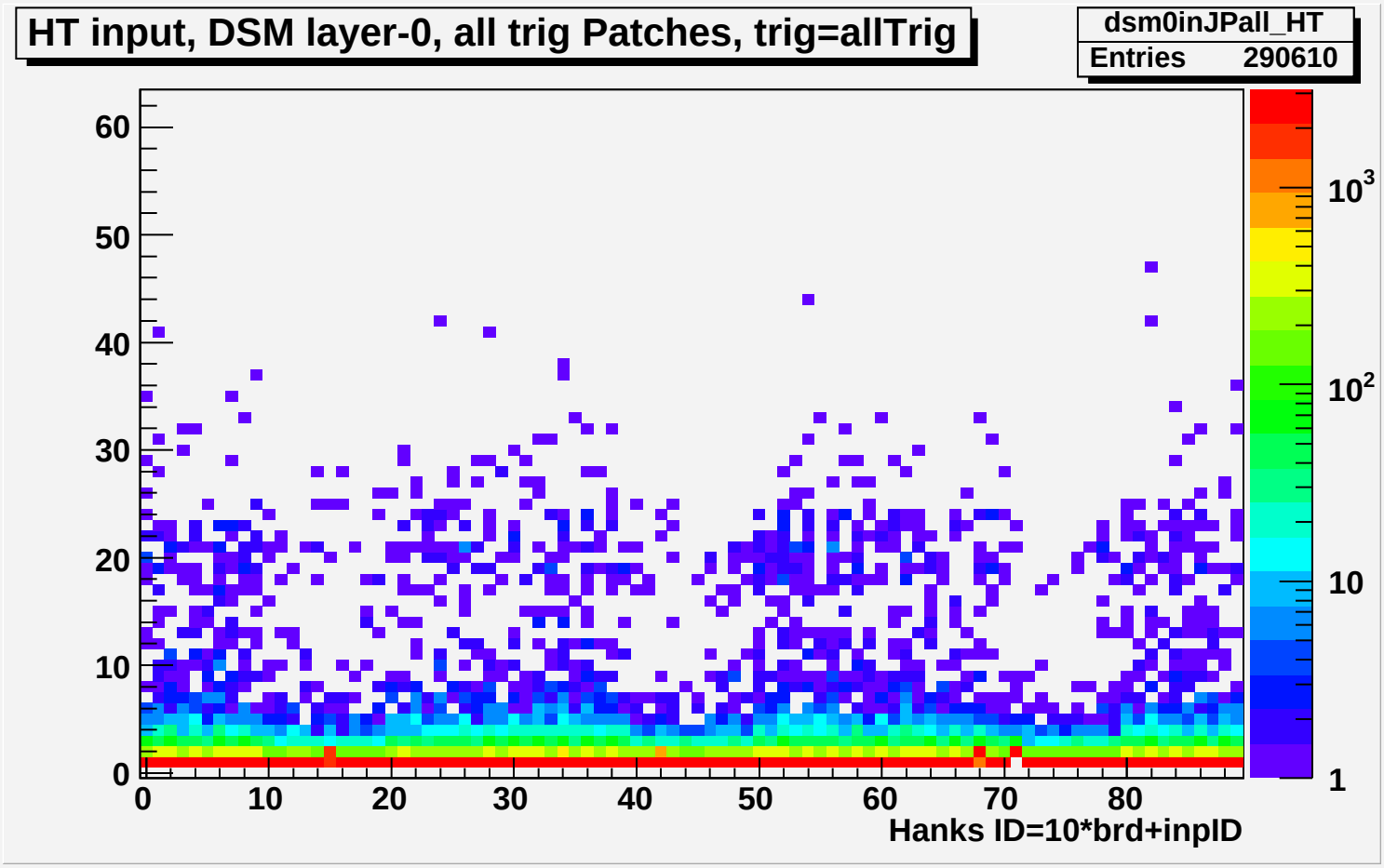
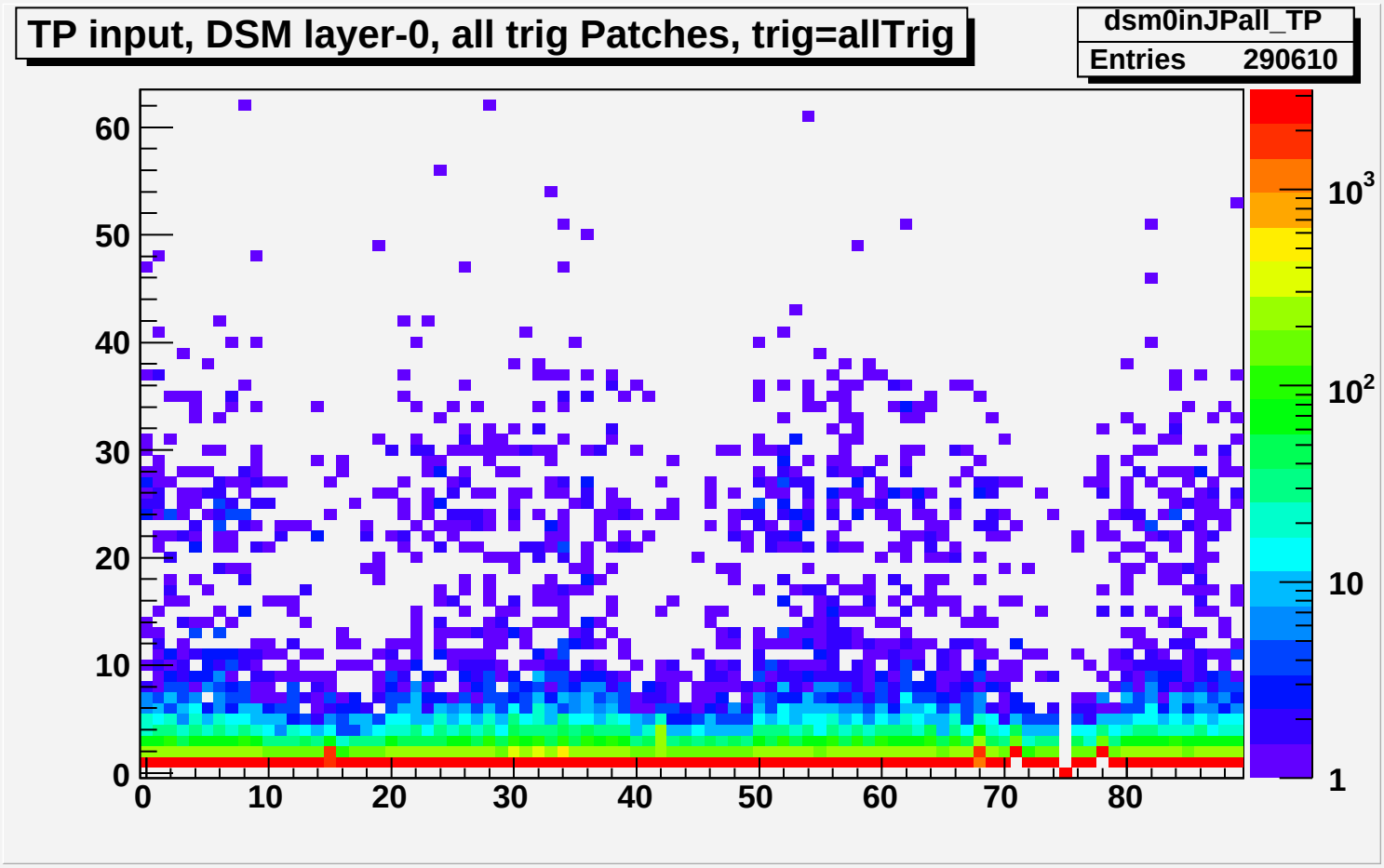
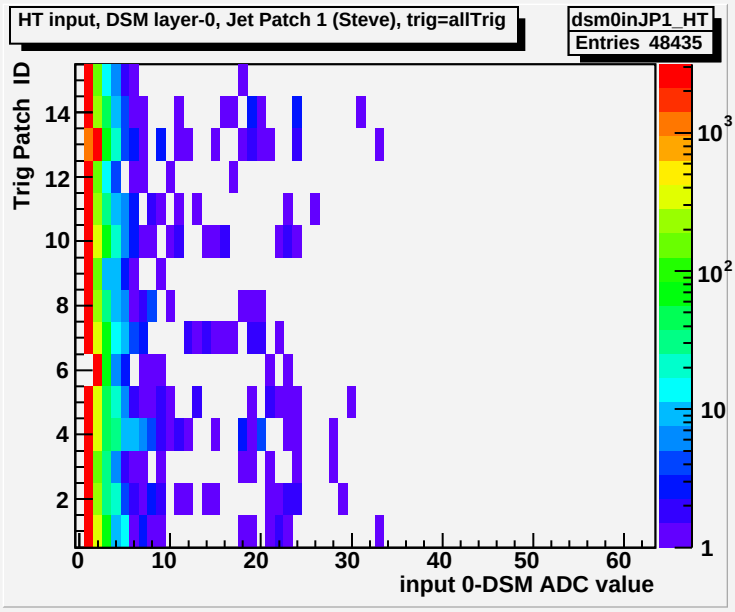
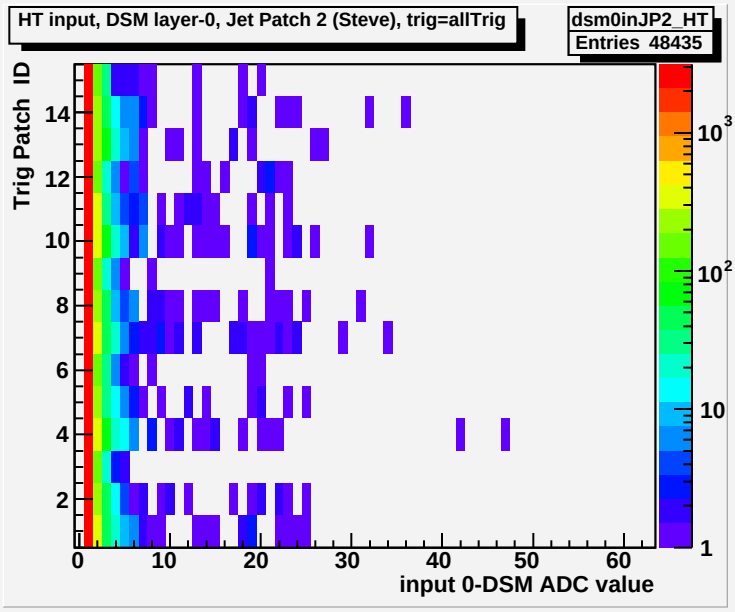
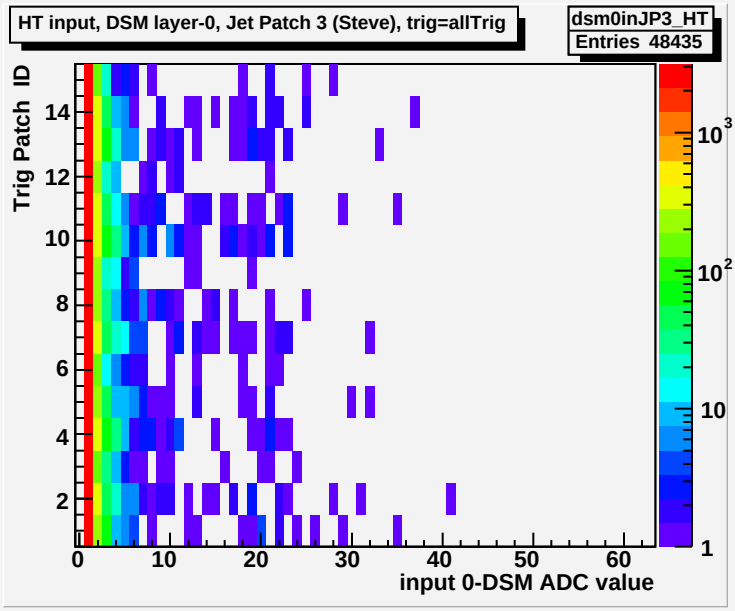
Entries 3229
No. Hits

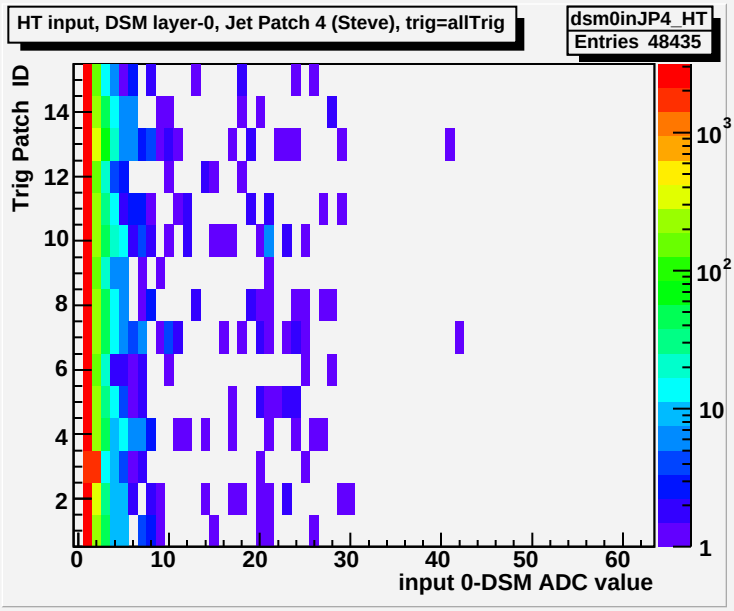

HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 290610
Hanks ID=10*brd+inpID

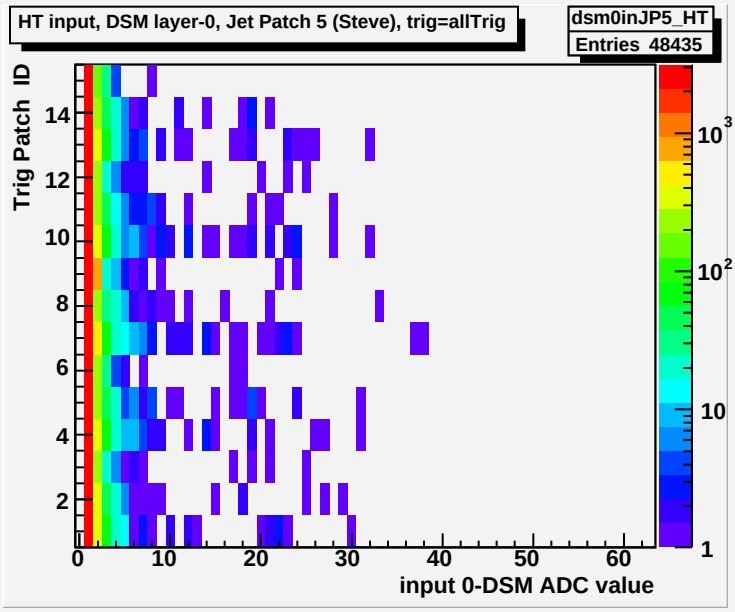

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 290610

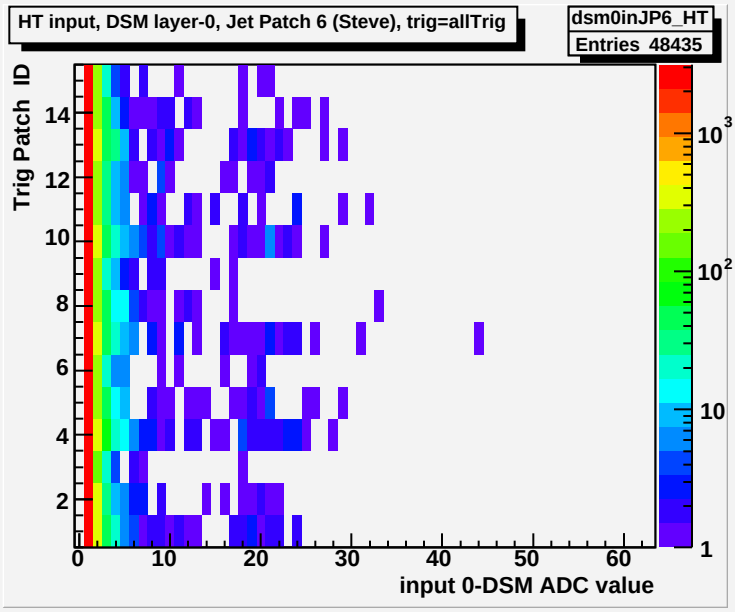

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 48435
Trig Patch ID
input 0-DSM ADC value

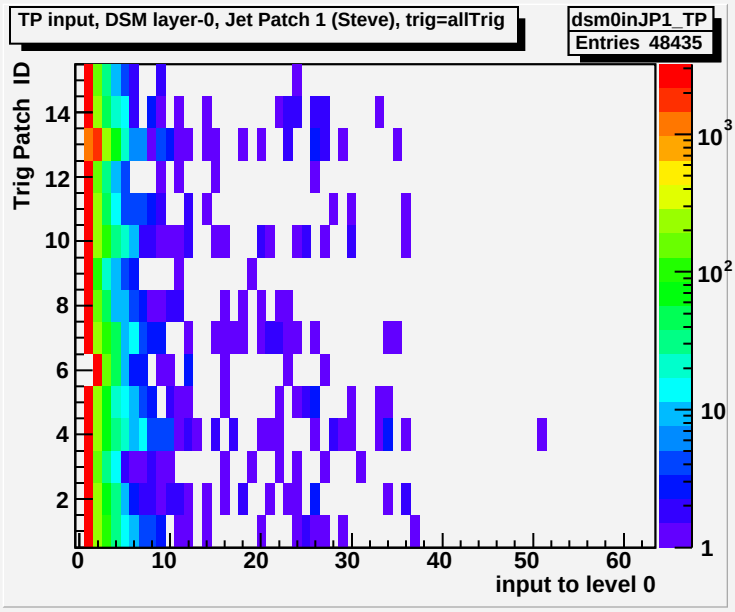

HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 48435
Trig Patch ID
input 0-DSM ADC value

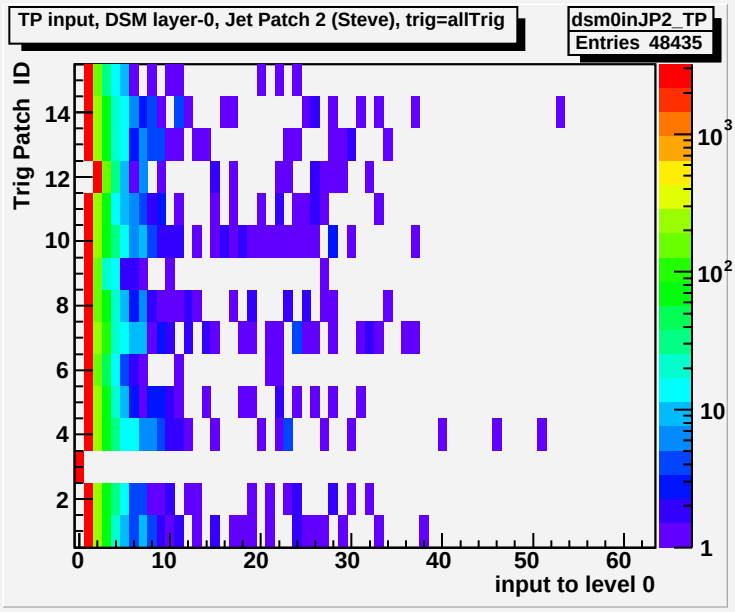

HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 48435
Trig Patch ID
input 0-DSM ADC value

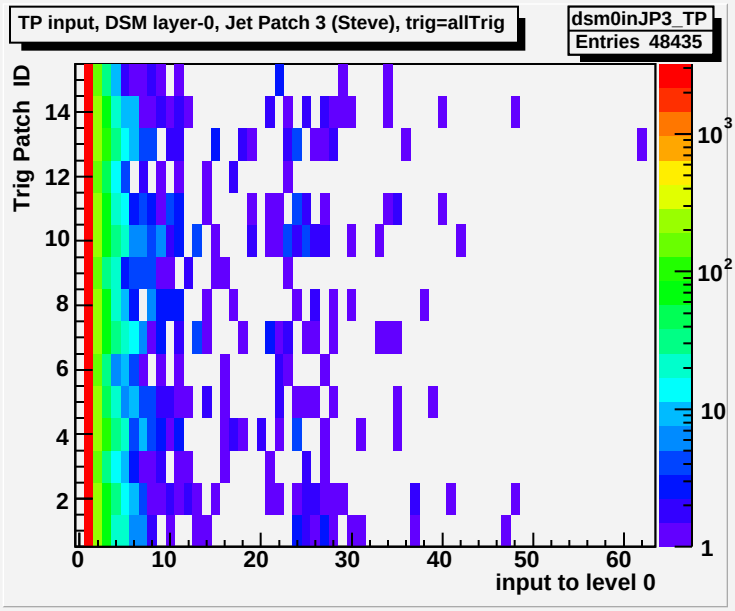

HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 48435
Trig Patch ID
input 0-DSM ADC value

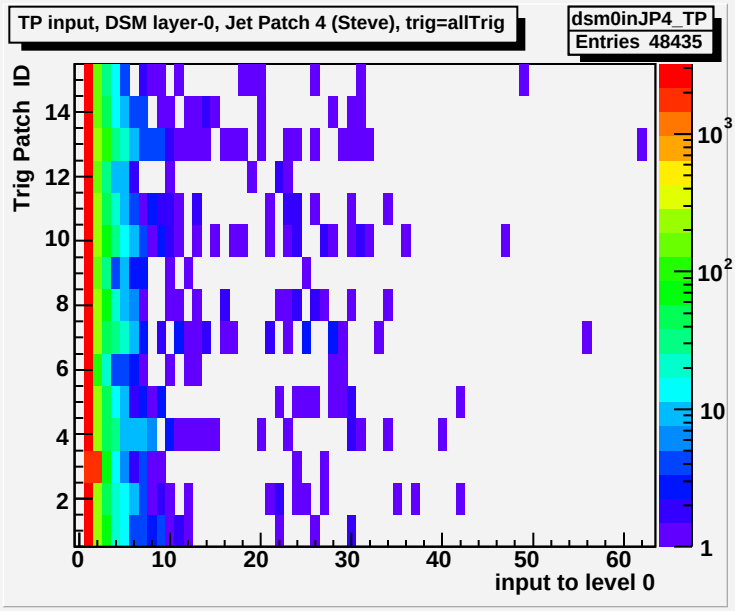

HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 48435
Trig Patch ID
input 0-DSM ADC value

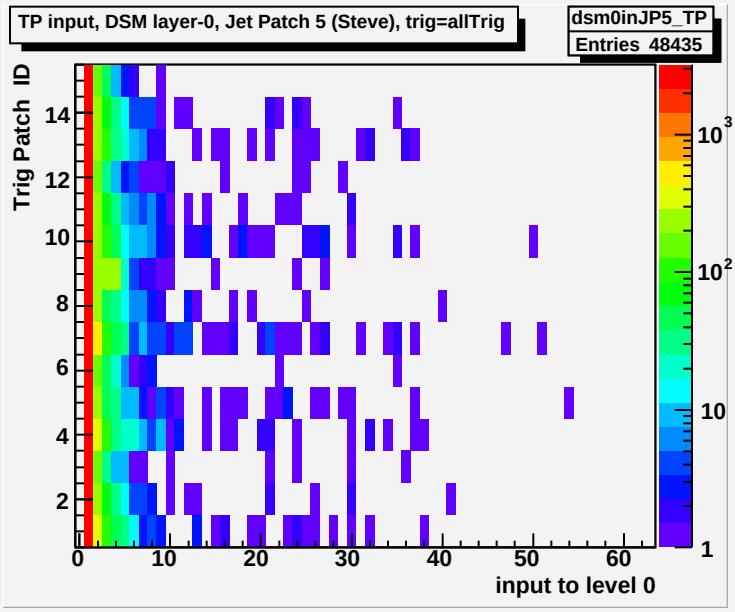

HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 48435
Trig Patch ID
input 0-DSM ADC value

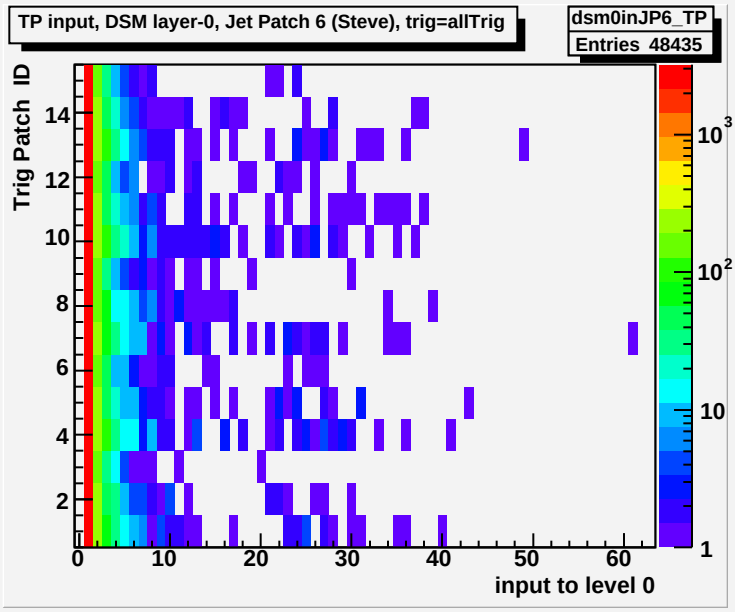

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 48435
Trig Patch ID
input to level 0

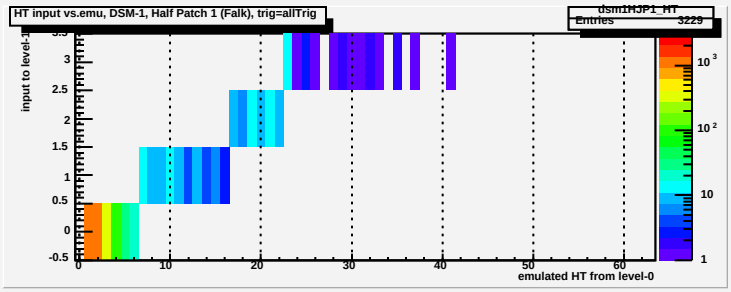

TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 48435
Trig Patch ID
input to level 0

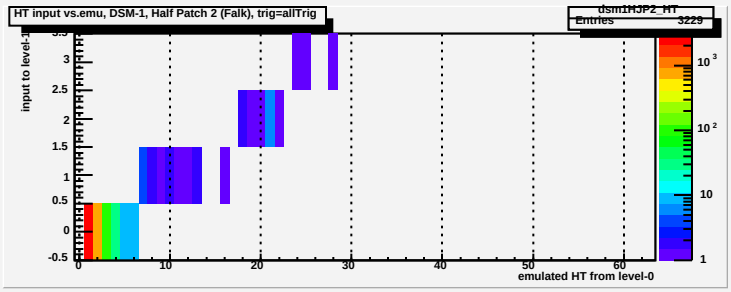

TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 48435
Trig Patch ID
input to level 0

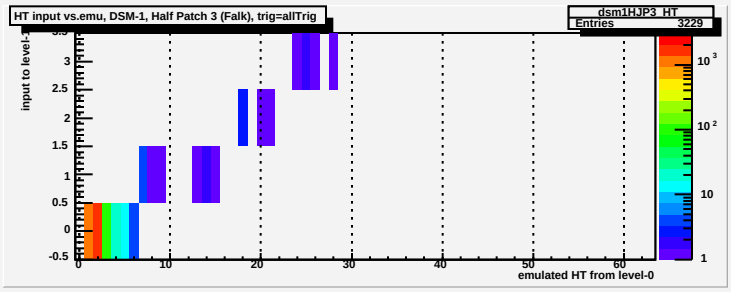

TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 48435
Trig Patch ID
input to level 0

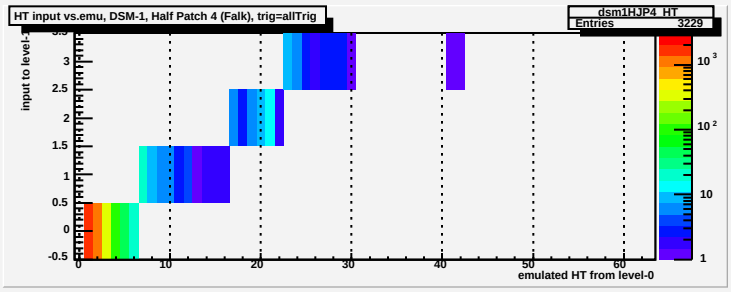

TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 48435
Trig Patch ID
input to level 0

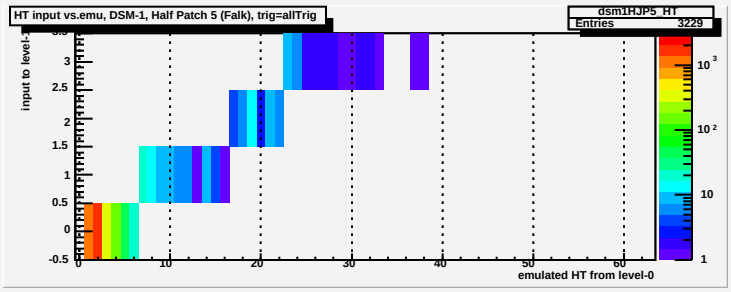

TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 48435
Trig Patch ID
input to level 0

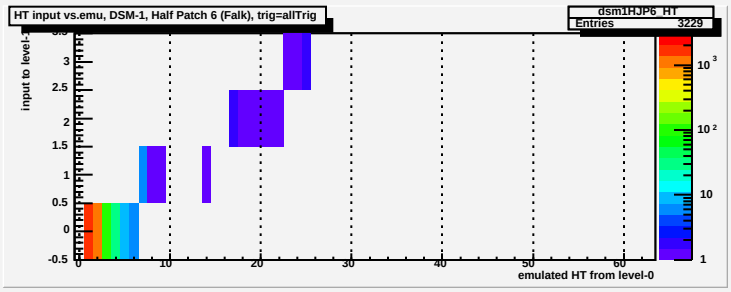

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 3229
input to level-1
emulated HT from level-0

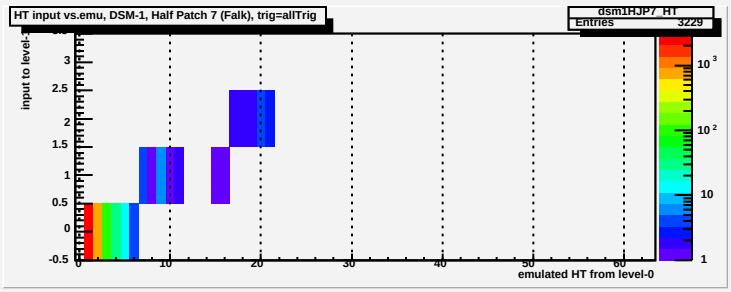

HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 3229
input to level-1
emulated HT from level-0

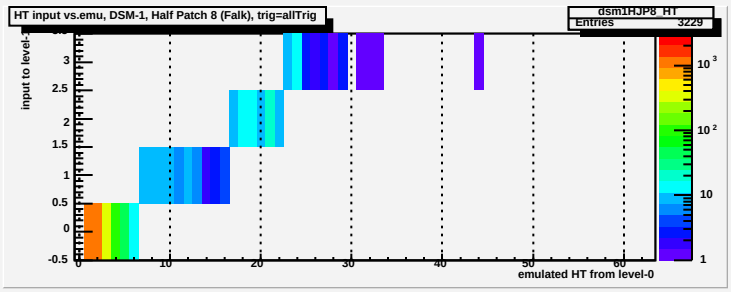

HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 3229
input to level-1
emulated HT from level-0

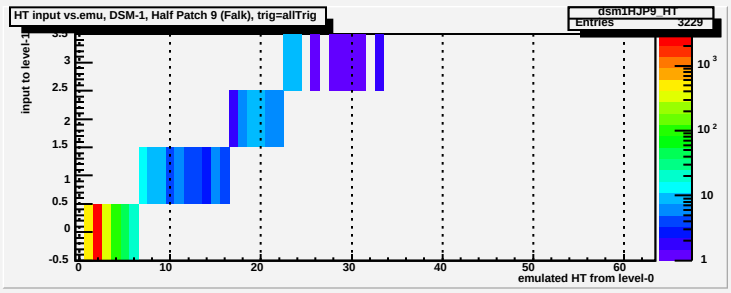

HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT
Entries 3229
input to level-1
emulated HT from level-0

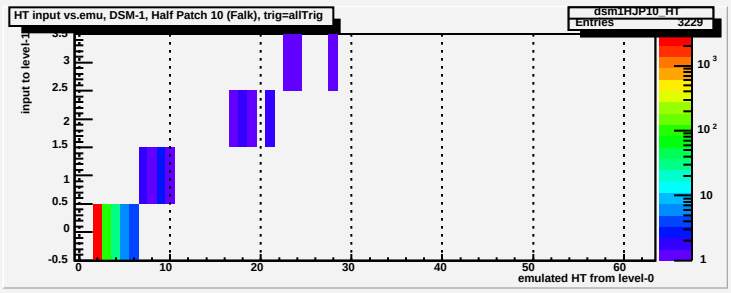

HT input vs.emu, DSM-1, Half Patch 5 (Falk), trig=allTrig
dsm1HJP5_HT
Entries 3229
input to level-1
emulated HT from level-0

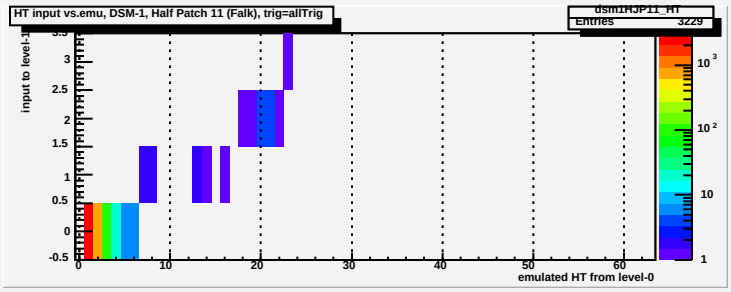

HT input vs.emu, DSM-1, Half Patch 6 (Falk), trig=allTrig
dsm1HJP6_HT
Entries 3229
input to level-1
emulated HT from level-0

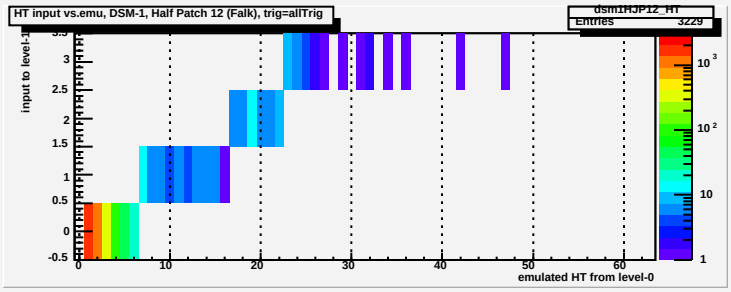

HT input vs.emu, DSM-1, Half Patch 7 (Falk), trig=allTrig
dsm1HJP7_HT
Entries 3229
input to level-1
emulated HT from level-0

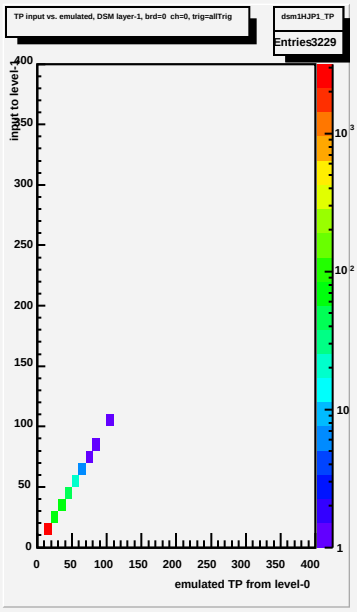

HT input vs.emu, DSM-1, Half Patch 8 (Falk), trig=allTrig
dsm1HJP8_HT
Entries 3229
input to level-1
emulated HT from level-0

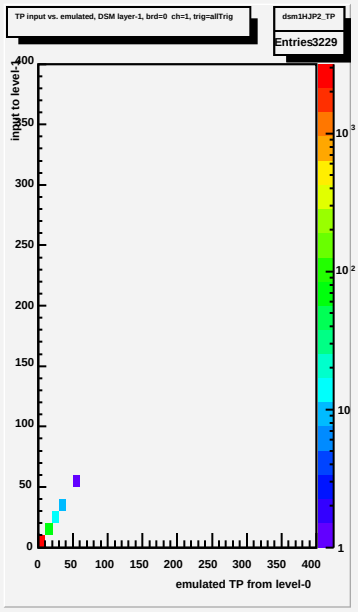

HT input vs.emu, DSM-1, Half Patch 9 (Falk), trig=allTrig
dsm1HJP9_HT
Entries 3229
input to level-1
emulated HT from level-0

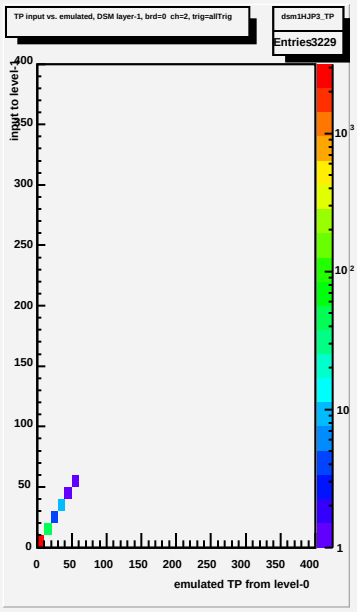

HT input vs.emu, DSM-1, Half Patch 10 (Falk), trig=allTrig
dsm1HJP10_HT
Entries 3229
input to level-1
emulated HT from level-0

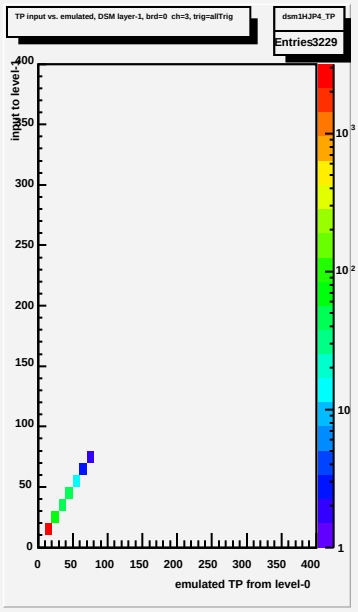

HT input vs.emu, DSM-1, Half Patch 11 (Falk), trig=allTrig
dsm1HJP11_HT
Entries 3229
input to level-1
emulated HT from level-0

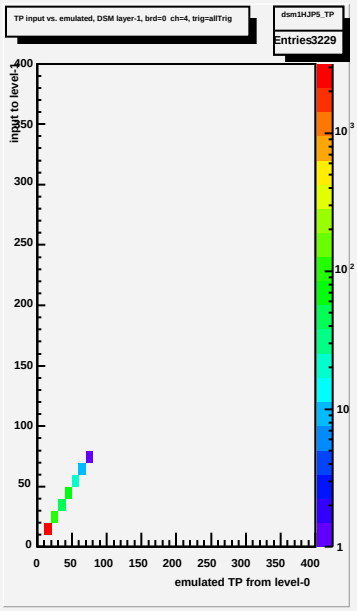

HT input vs.emu, DSM-1, Half Patch 12 (Falk), trig=allTrig
dsm1HJP12_HT
Entries 3229
input to level-1
emulated HT from level-0

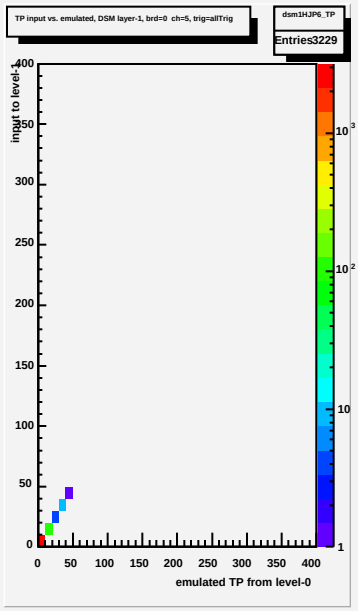

TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries3229
input to level-1
emulated TP from level-0

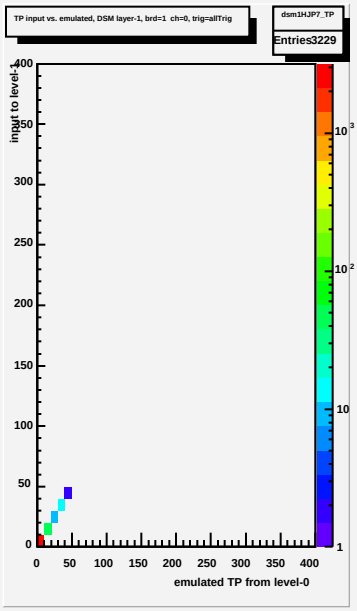

TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries3229
input to level-1
emulated TP from level-0

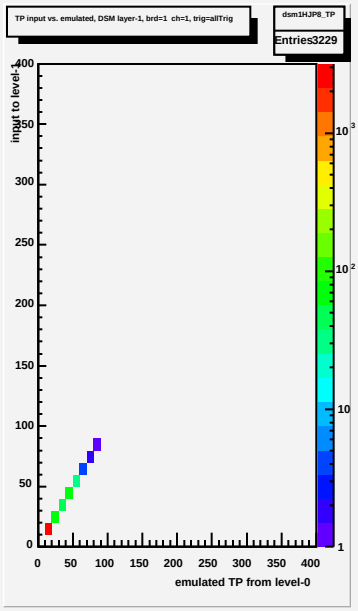

TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries3229
input to level-1
emulated TP from level-0

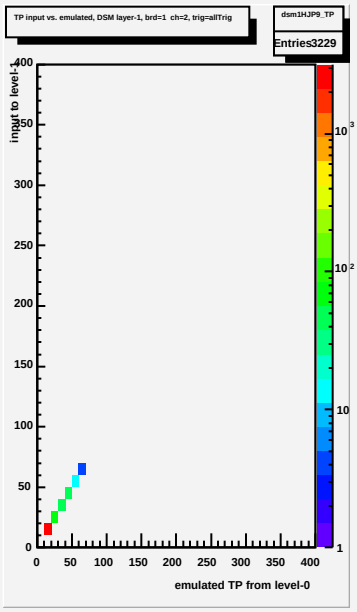

TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig
dsm1HJP4_TP
Entries3229
input to level-1
emulated TP from level-0

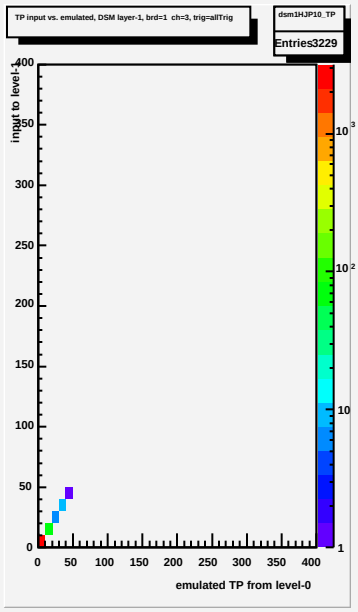

TP input vs. emulated, DSM layer-1, brd=0 ch=4, trig=allTrig
dsm1HJP5_TP
Entries3229
input to level-1
emulated TP from level-0

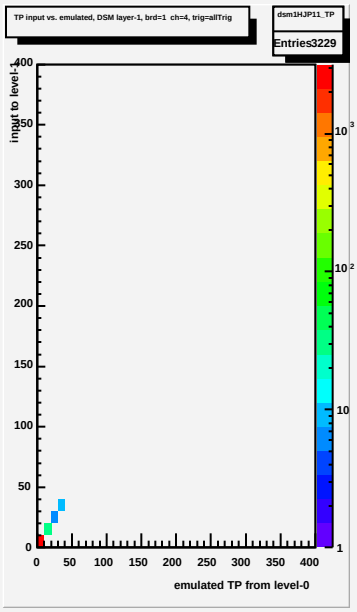

TP input vs. emulated, DSM layer-1, brd=0 ch=5, trig=allTrig
dsm1HJP6_TP
Entries3229
input to level-1
emulated TP from level-0

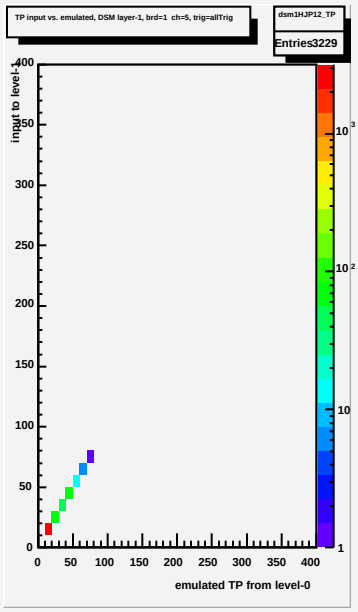

TP input vs. emulated, DSM layer-1, brd=1 ch=0, trig=allTrig
dsm1HJP7_TP
Entries3229
input to level-1
emulated TP from level-0

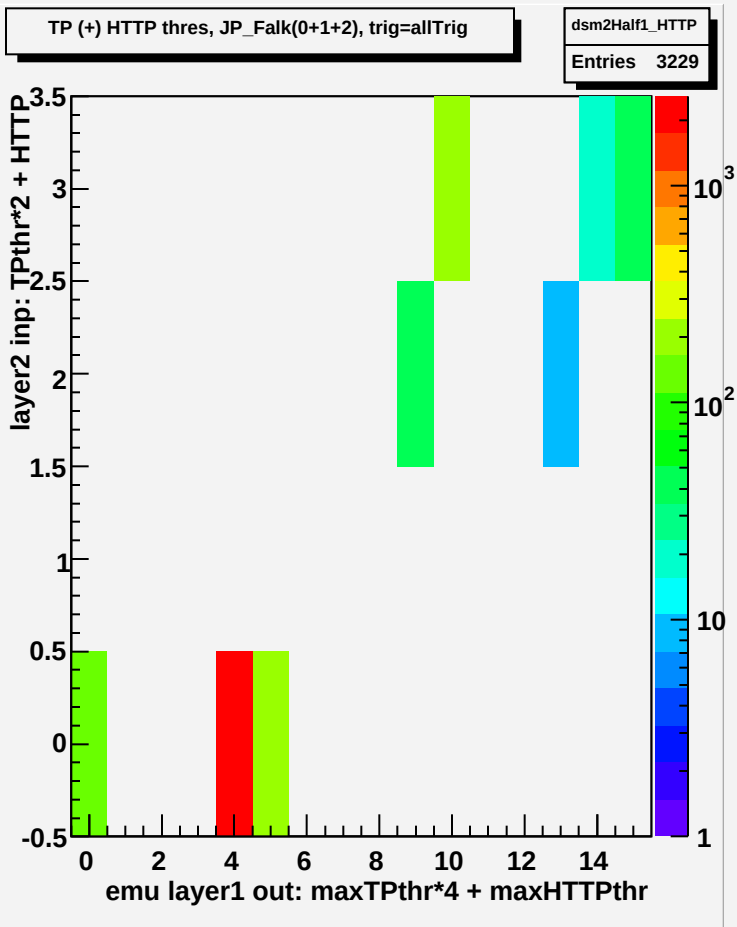

TP input vs. emulated, DSM layer-1, brd=1 ch=1, trig=allTrig
dsm1HJP8_TP
Entries3229
input to level-1
emulated TP from level-0

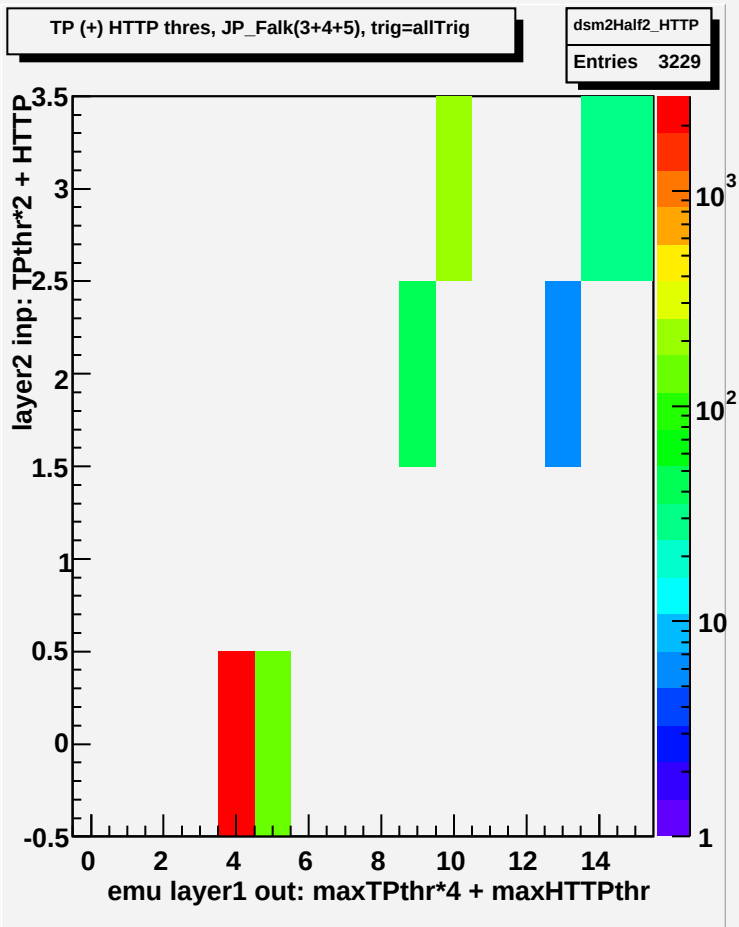

TP input vs. emulated, DSM layer-1, brd=1 ch=2, trig=allTrig
dsm1HJP9_TP
Entries3229
input to level-1
emulated TP from level-0

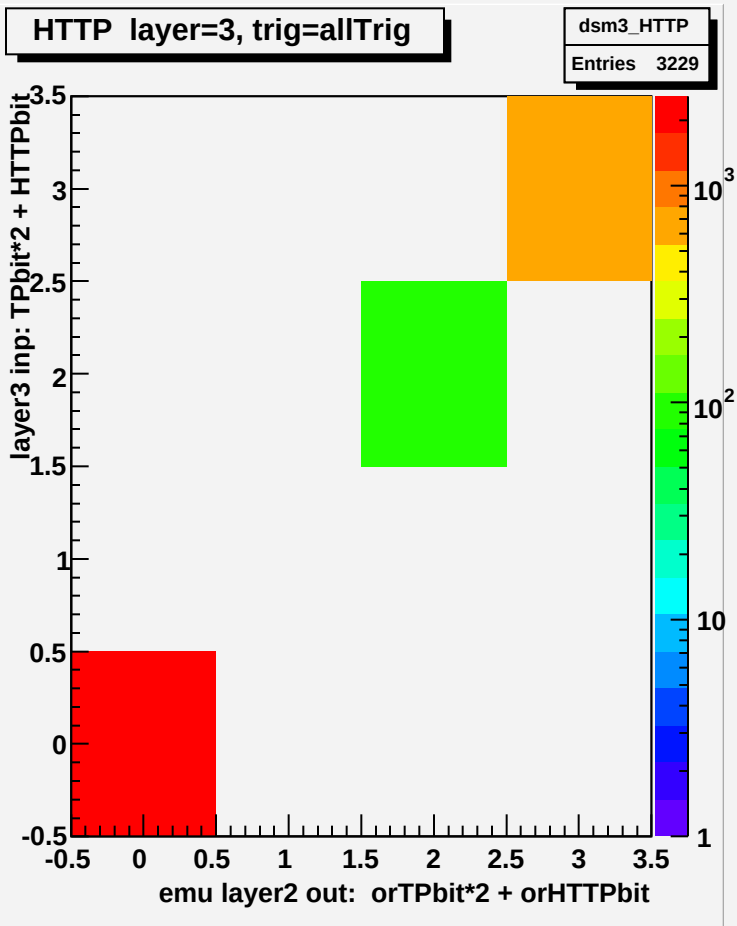

TP input vs. emulated, DSM layer-1, brd=1 ch=3, trig=allTrig
dsm1HJP10_TP
Entries3229
input to level-1
emulated TP from level-0

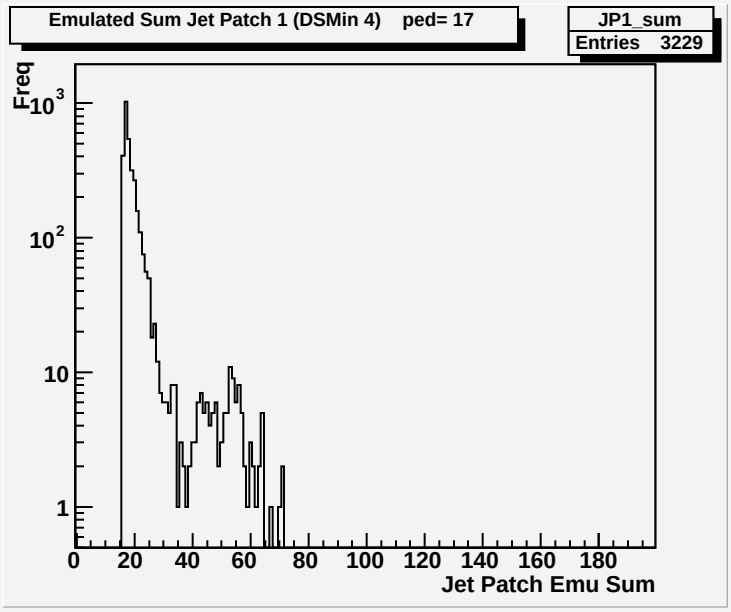

TP input vs. emulated, DSM layer-1, brd=1 ch=4, trig=allTrig
dsm1HJP11_TP
Entries3229
input to level-1
emulated TP from level-0

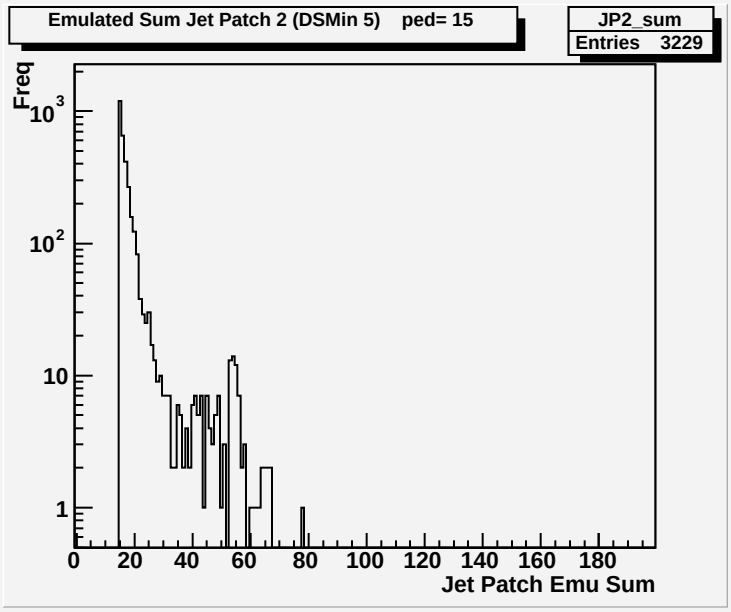

TP input vs. emulated, DSM layer-1, brd=1 ch=5, trig=allTrig
dsm1HJP12_TP
Entries3229
input to level-1
emulated TP from level-0

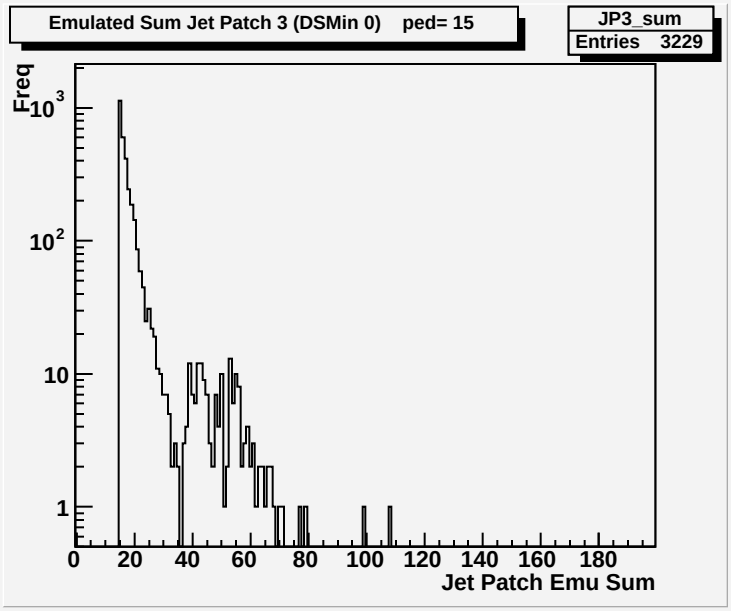

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 3229
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

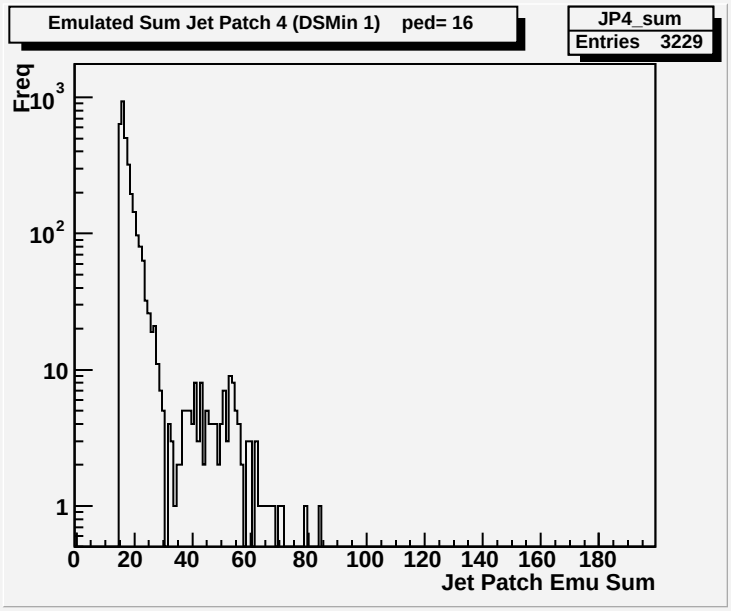

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 3229
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

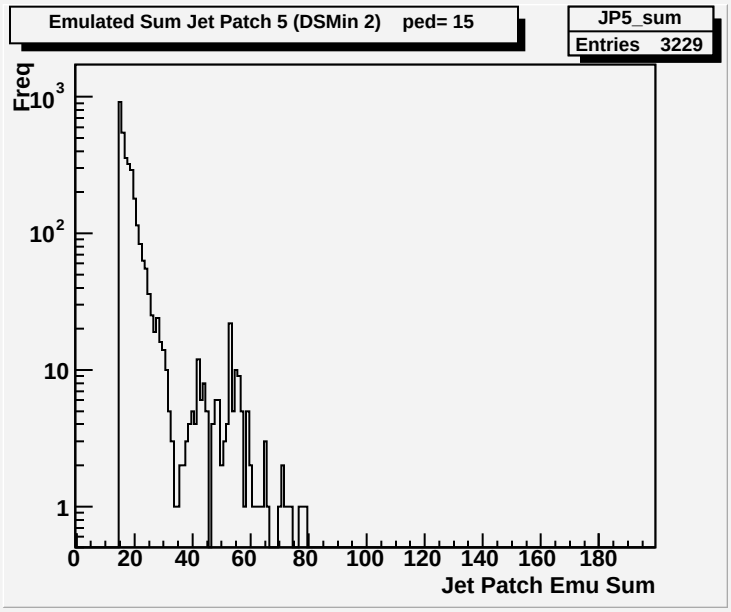

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 3229
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

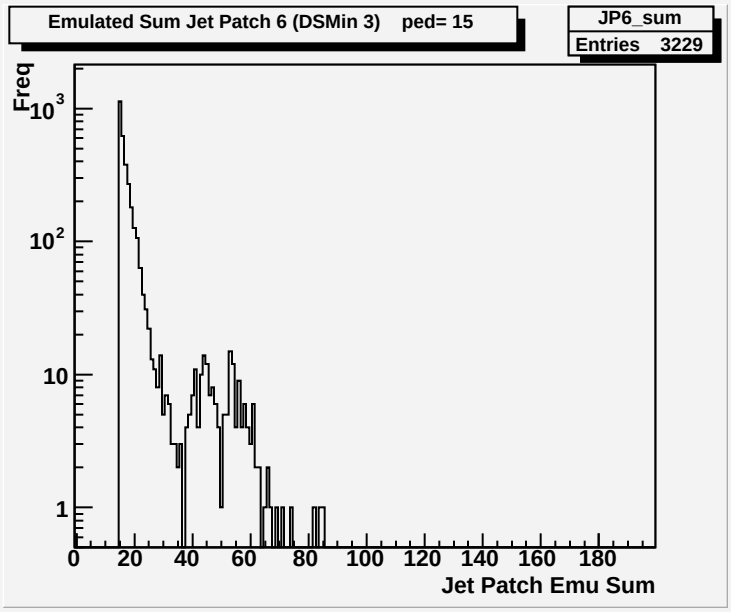

Emulated Sum Jet Patch 1 (DSMin 4) ped= 17
JP1_sum
Entries 3229
Freq
Jet Patch Emu Sum

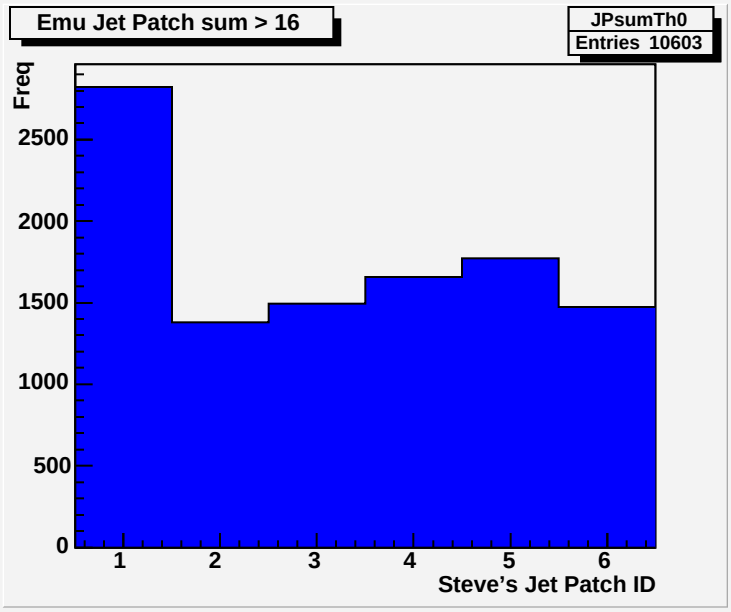

Emulated Sum Jet Patch 2 (DSMin 5) ped= 15
JP2_sum
Entries 3229
Freq
Jet Patch Emu Sum

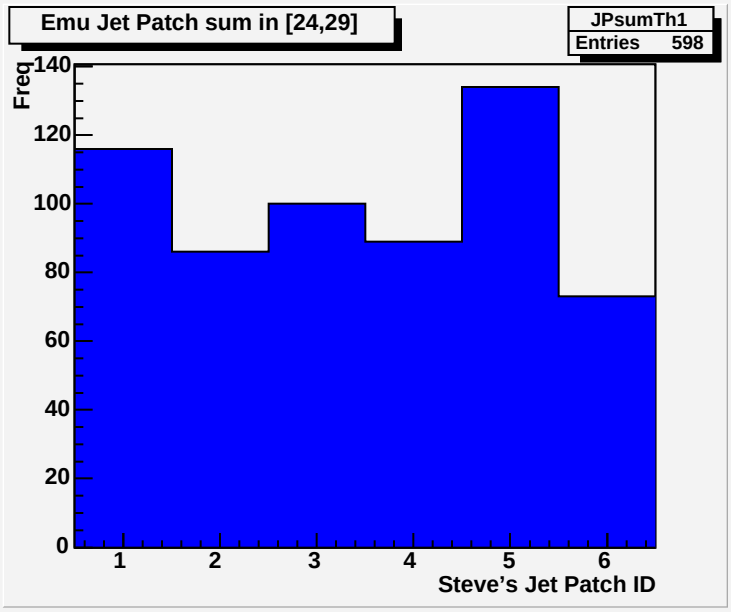

Emulated Sum Jet Patch 3 (DSMin 0) ped= 15
JP3_sum
Entries 3229
Freq
Jet Patch Emu Sum

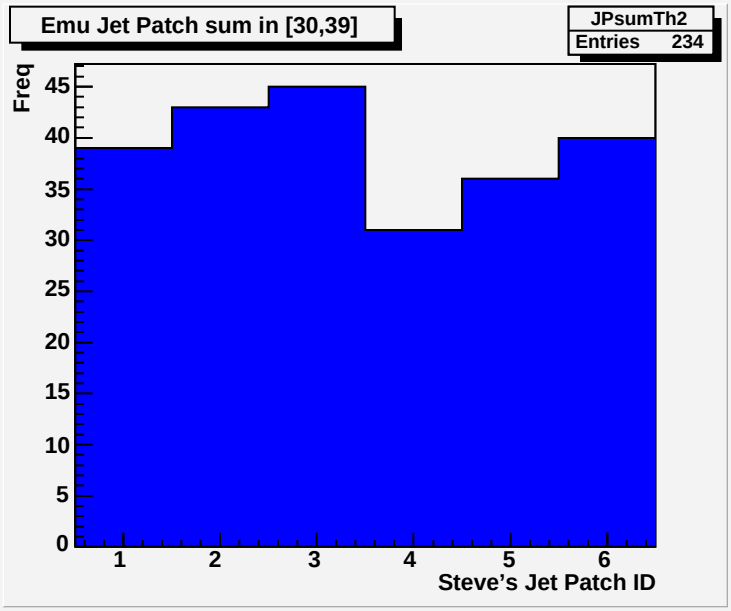

Emulated Sum Jet Patch 4 (DSMin 1) ped= 16
JP4_sum
Entries 3229
Freq
Jet Patch Emu Sum

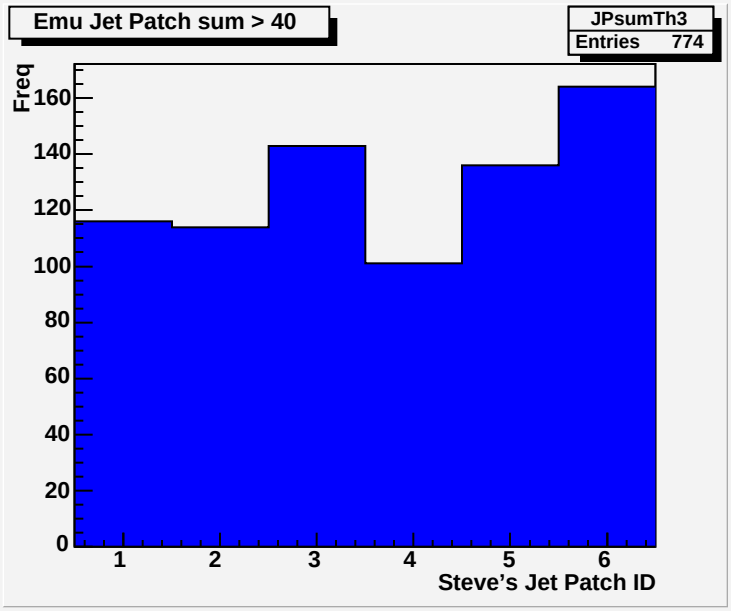

Emulated Sum Jet Patch 5 (DSMin 2) ped= 15
JP5_sum
Entries 3229
Freq
Jet Patch Emu Sum

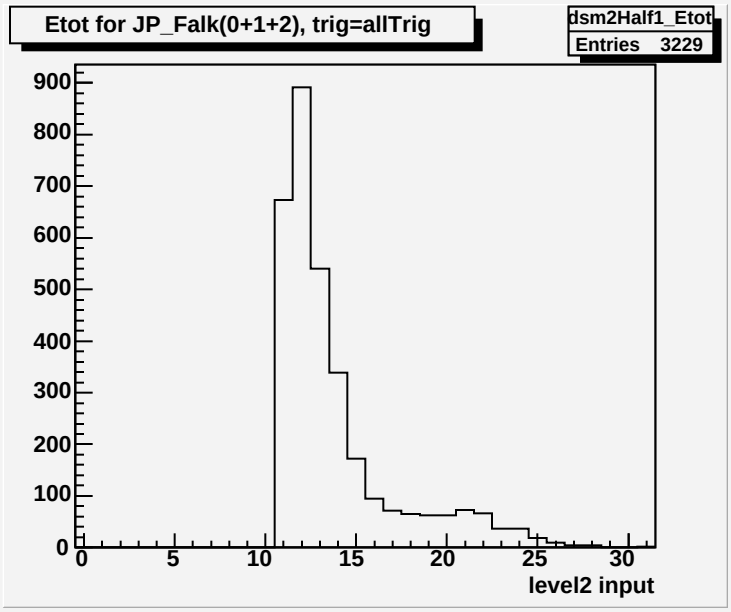

Emulated Sum Jet Patch 6 (DSMin 3) ped= 15
JP6_sum
Entries 3229
Freq
Jet Patch Emu Sum

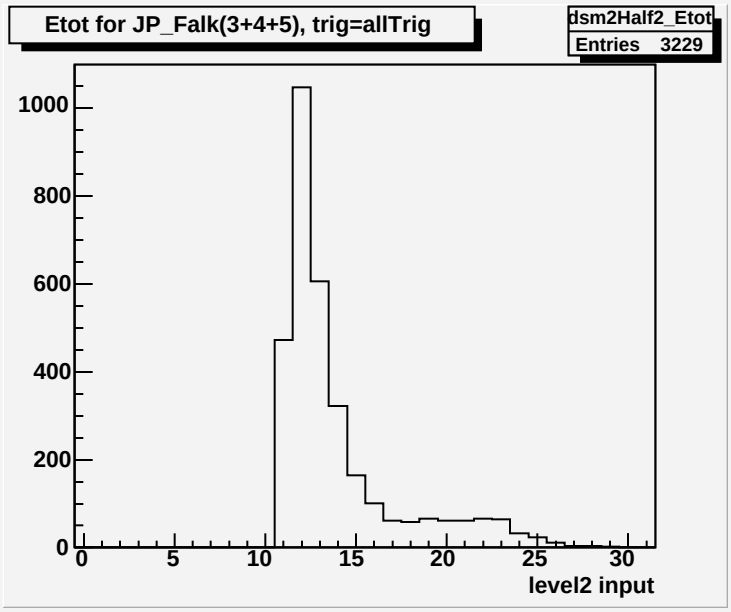

Emu Jet Patch sum > 16
JPsumTh0
Entries 10603
Freq
Steve's Jet Patch ID

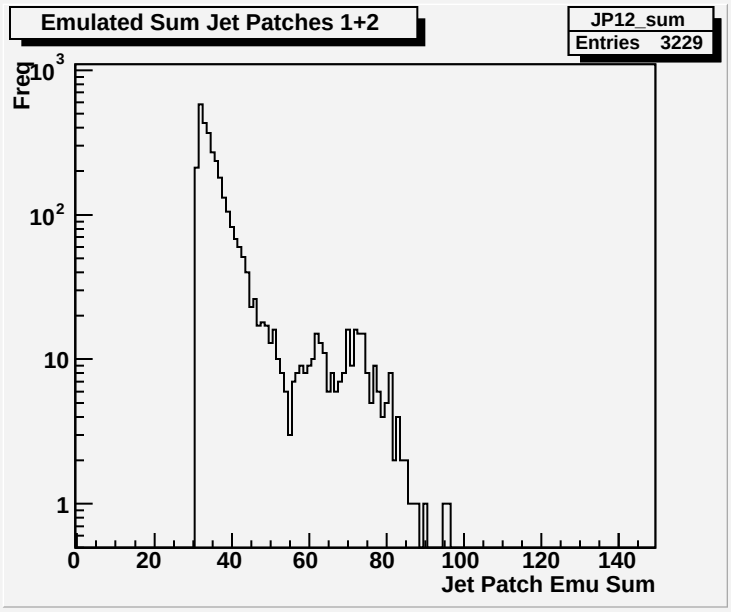

Emu Jet Patch sum in [24,29]
JPsumTh1
Entries 598
Freq
Steve's Jet Patch ID

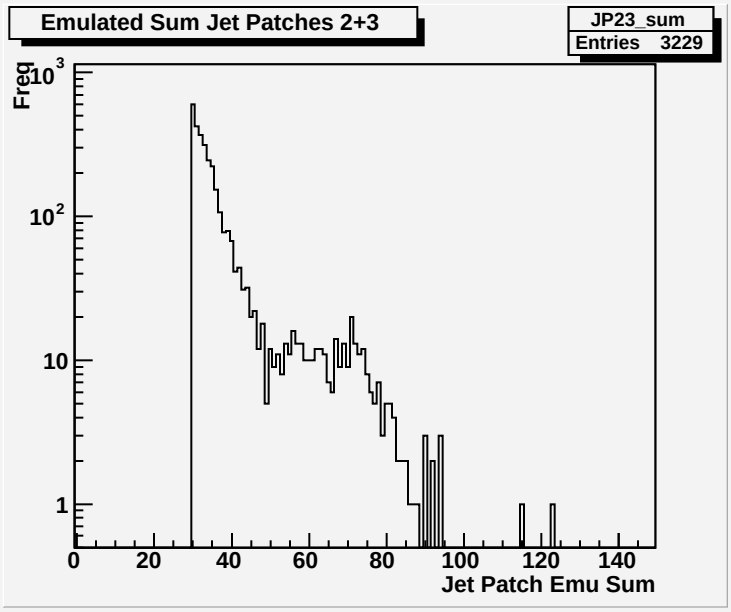

Emu Jet Patch sum in [30,39]
JPsumTh2
Entries 234
Freq
Steve's Jet Patch ID

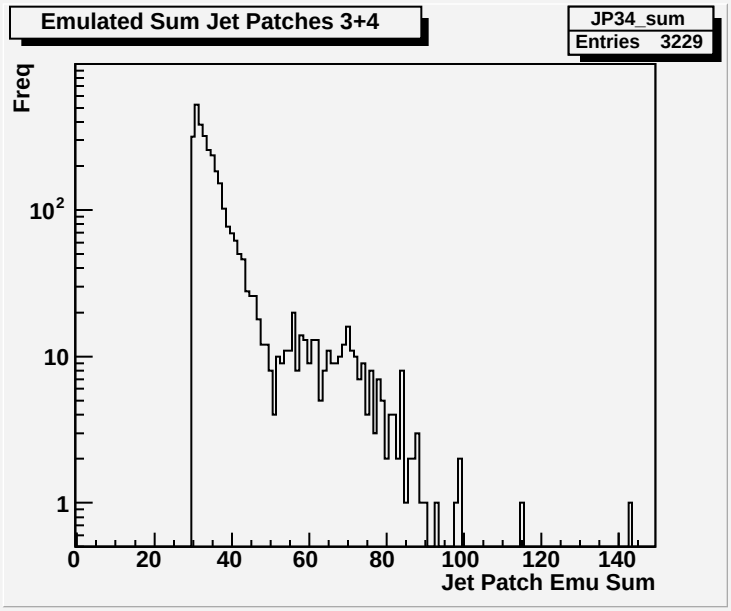

Emu Jet Patch sum > 40
JPsumTh3
Entries 774
Freq
Steve's Jet Patch ID

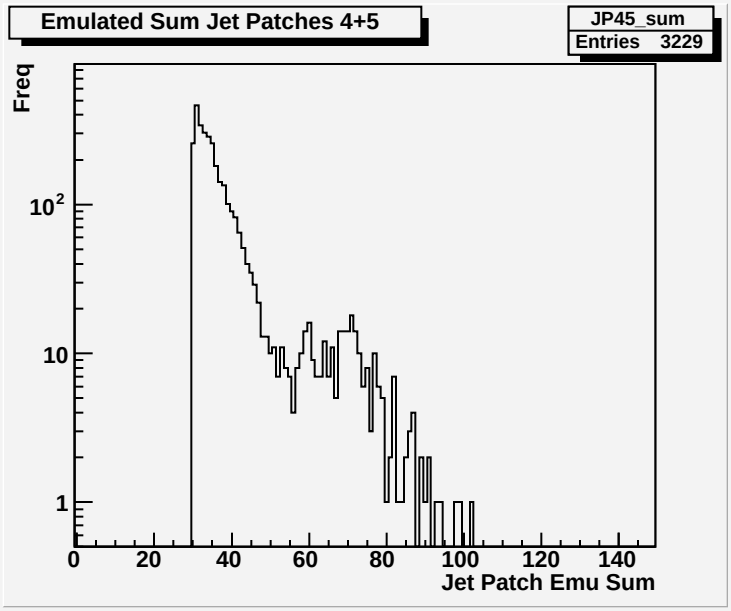

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 3229
level2 input

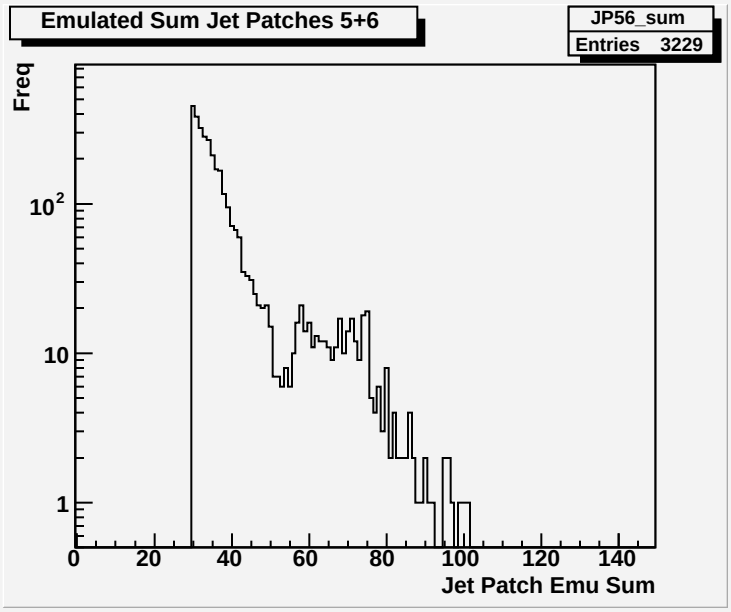

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 3229
level2 input

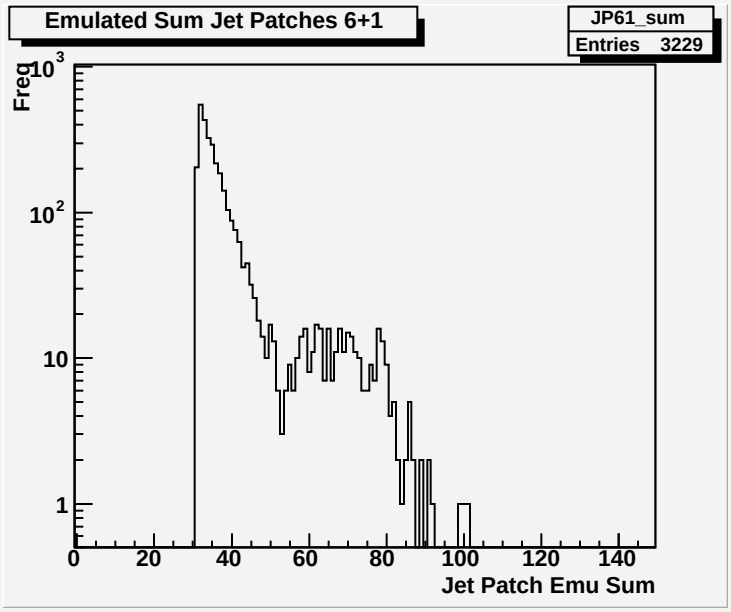

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 3229
Freq
Jet Patch Emu Sum

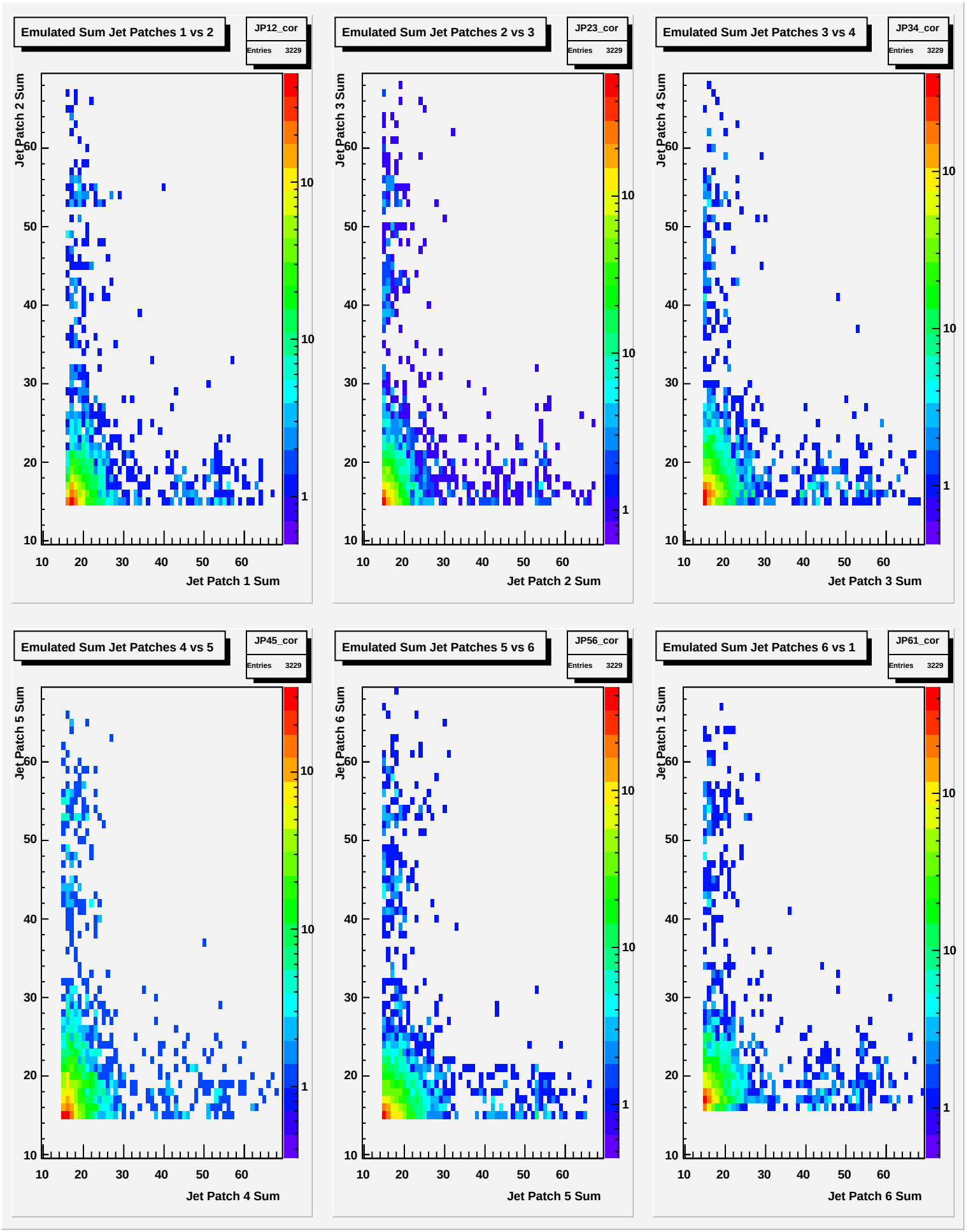

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 3229
Freq
Jet Patch Emu Sum

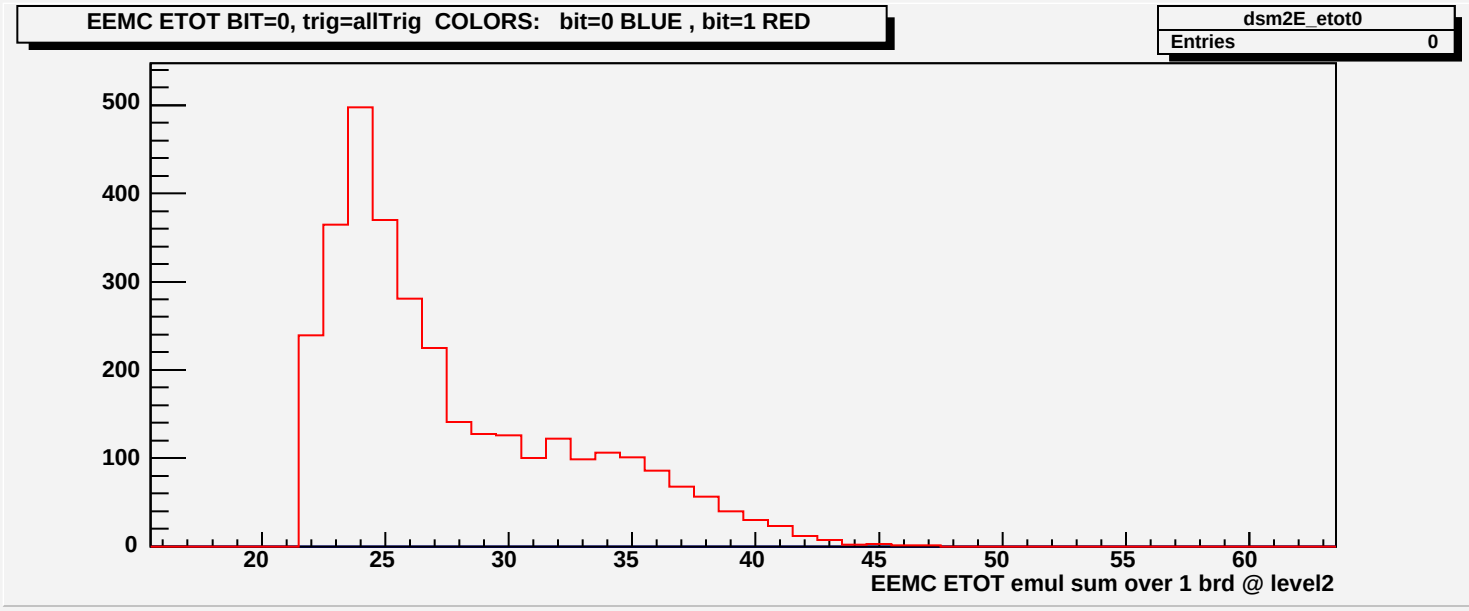

Emulated Sum Jet Patches 3+4
JP34_sum
Entries 3229
Freq
Jet Patch Emu Sum

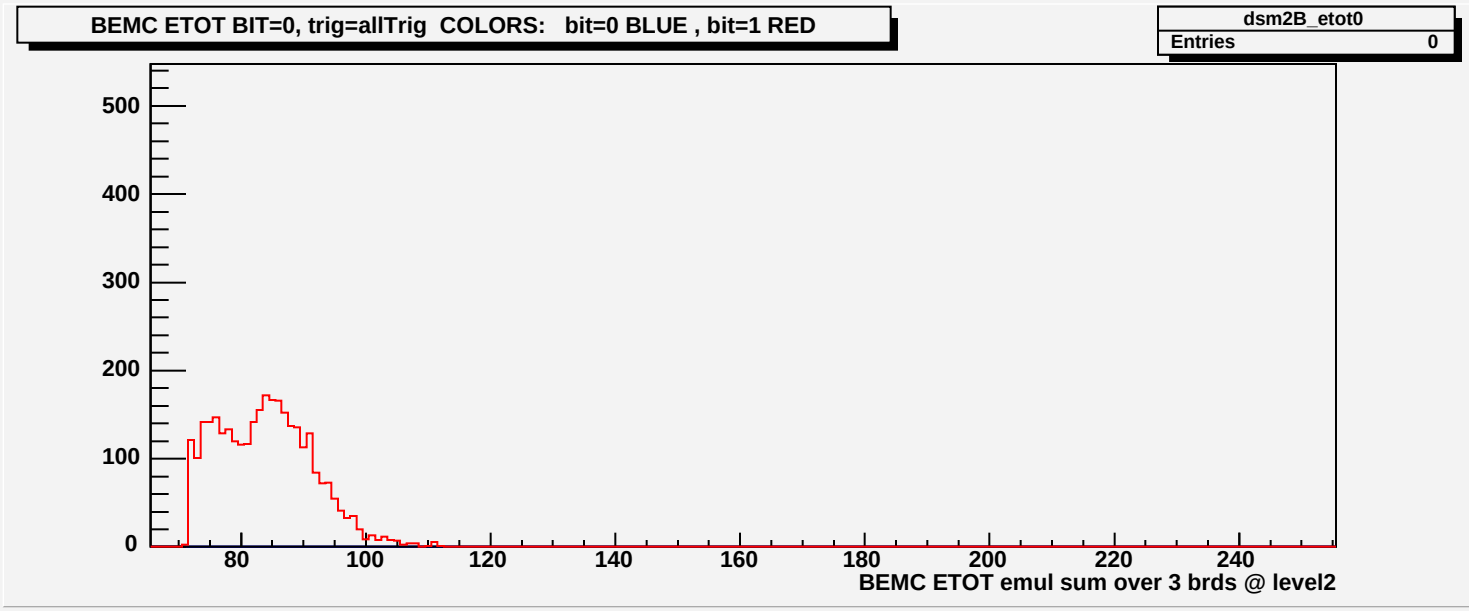

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 3229
Freq
Jet Patch Emu Sum

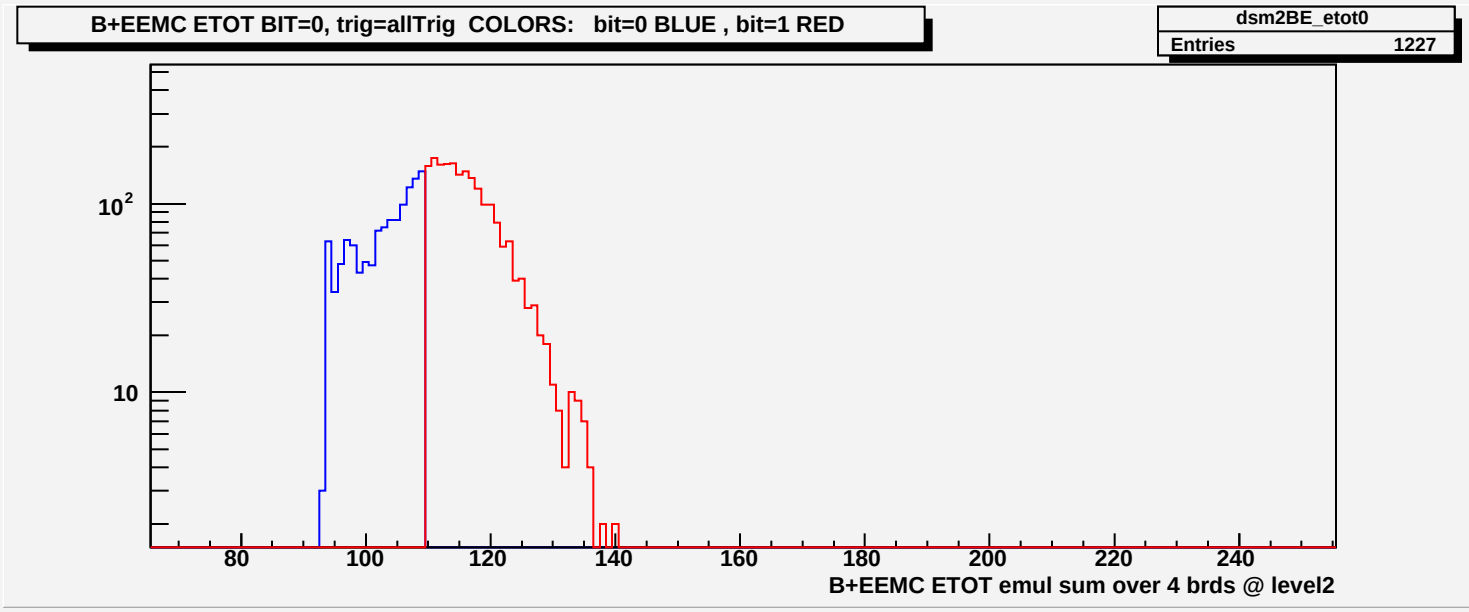

Emulated Sum Jet Patches 5+6
JP56_sum
Entries 3229
Freq
Jet Patch Emu Sum

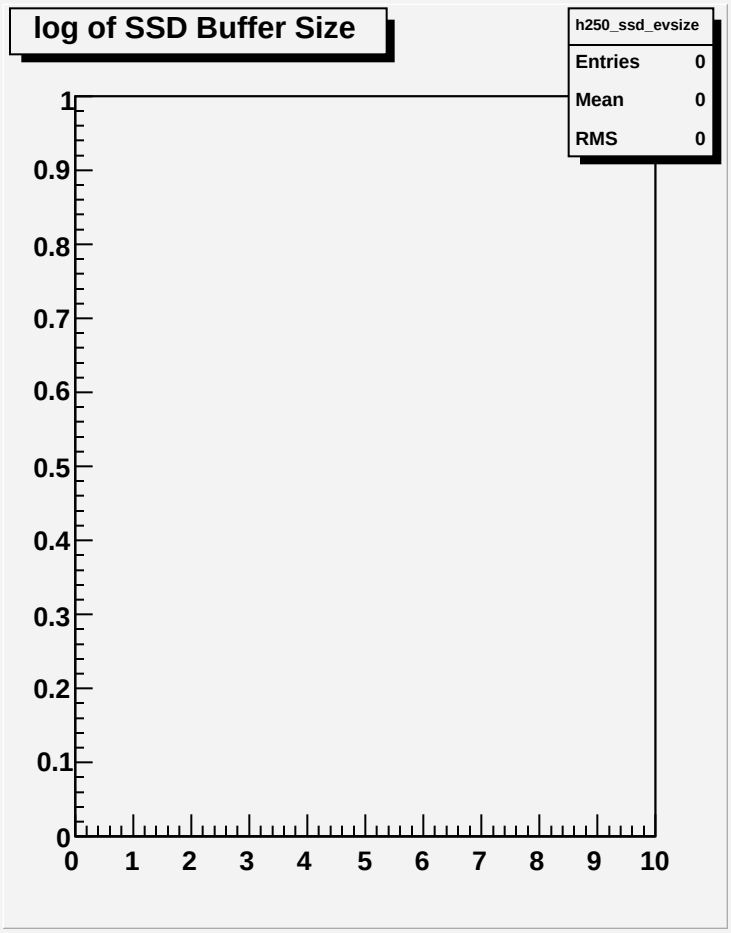

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 3229
Freq
Jet Patch Emu Sum

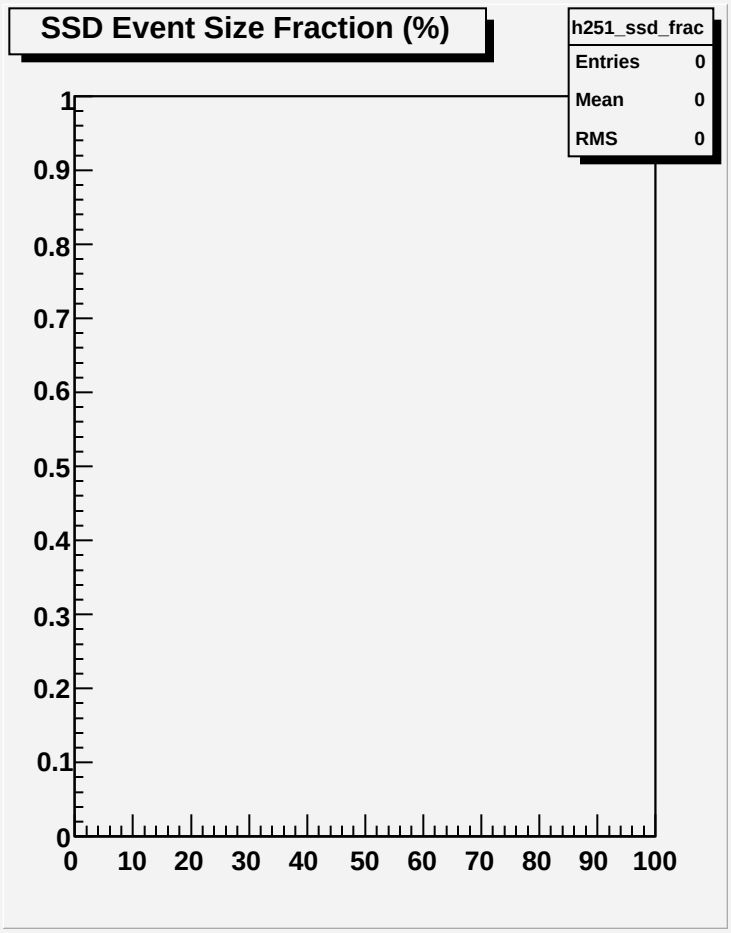

Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 3229
Jet Patch 2 Sum
Jet Patch 1 Sum
Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 3229
Jet Patch 3 Sum
Jet Patch 2 Sum
Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 3229
Jet Patch 4 Sum
Jet Patch 3 Sum
Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 3229
Jet Patch 5 Sum
Jet Patch 4 Sum
Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 3229
Jet Patch 6 Sum
Jet Patch 5 Sum
Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 3229
Jet Patch 1 Sum
Jet Patch 6 Sum

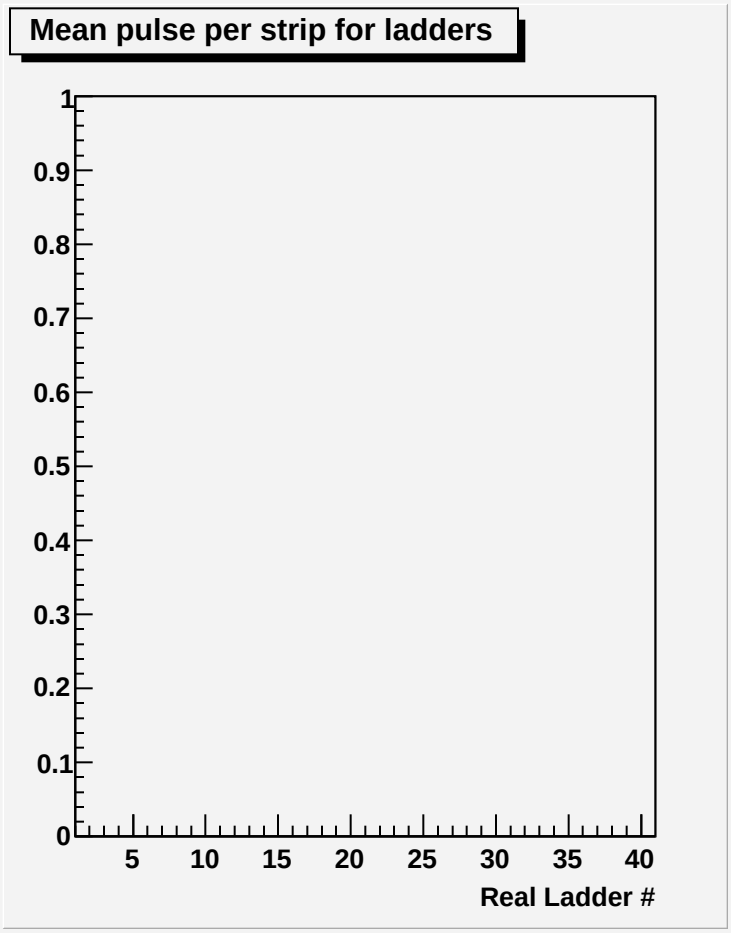

EEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2E_etot0
Entries 0
500
400
300
200
100
0
20
25
30
35
40
45
50
55
60
EEMC ETOT emul sum over 1 brd @ level2

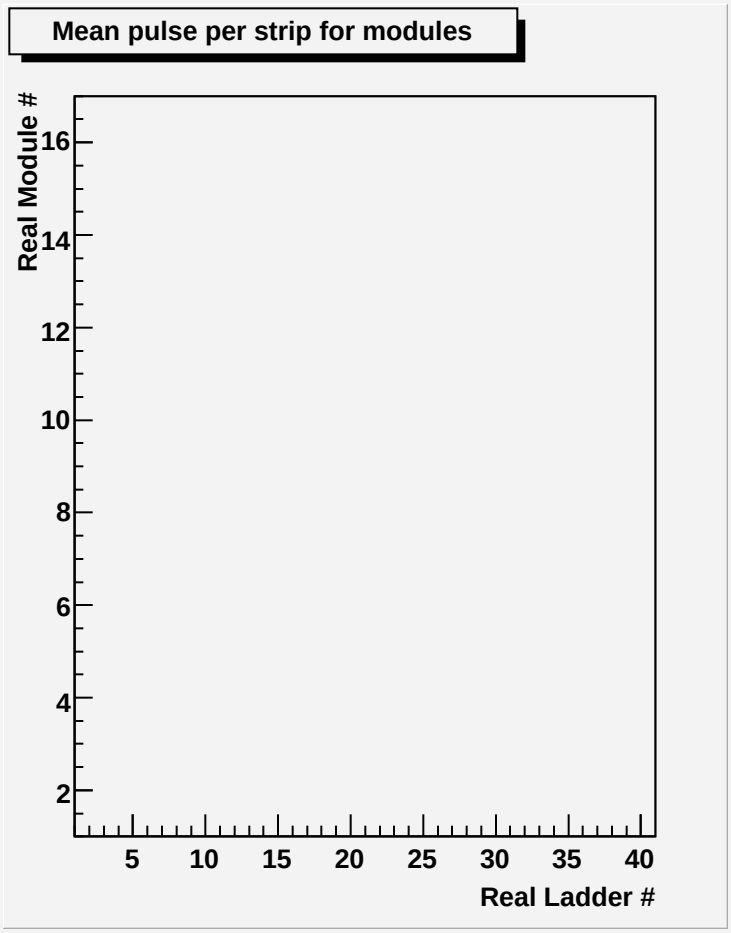

BEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2B_etot0
Entries 0
500
400
300
200
100
0
80
100
120
140
160
180
200
220
240
BEMC ETOT emul sum over 3 brds @ level2

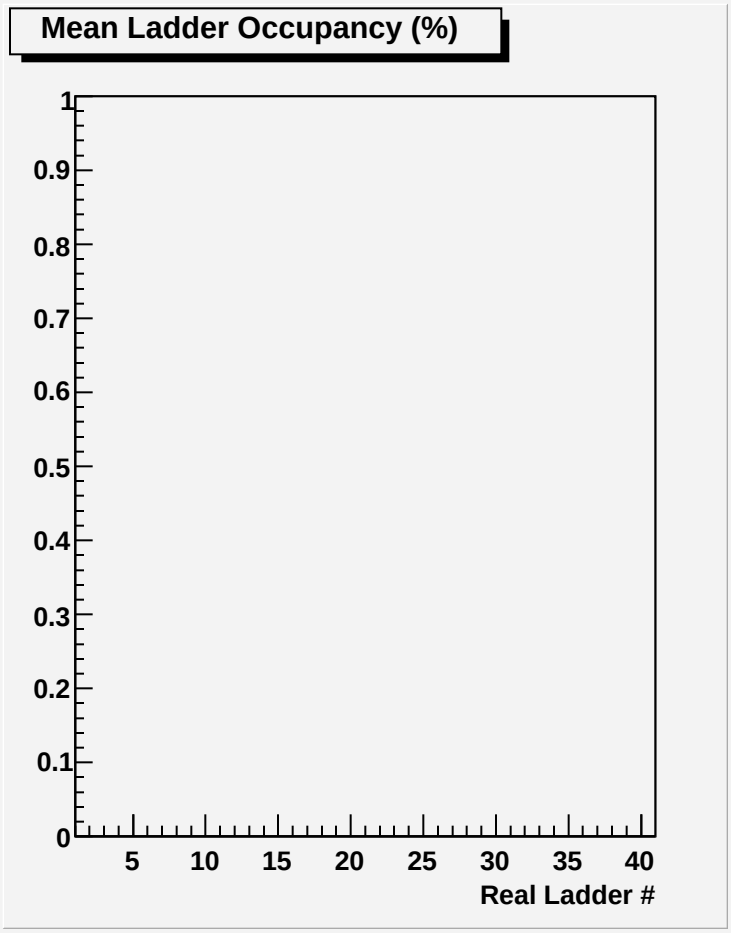

B+EEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2BE_etot0
Entries 1227
10^2
10
80
100
120
140
160
180
200
220
240
B+EEMC ETOT emul sum over 4 brds @ level2

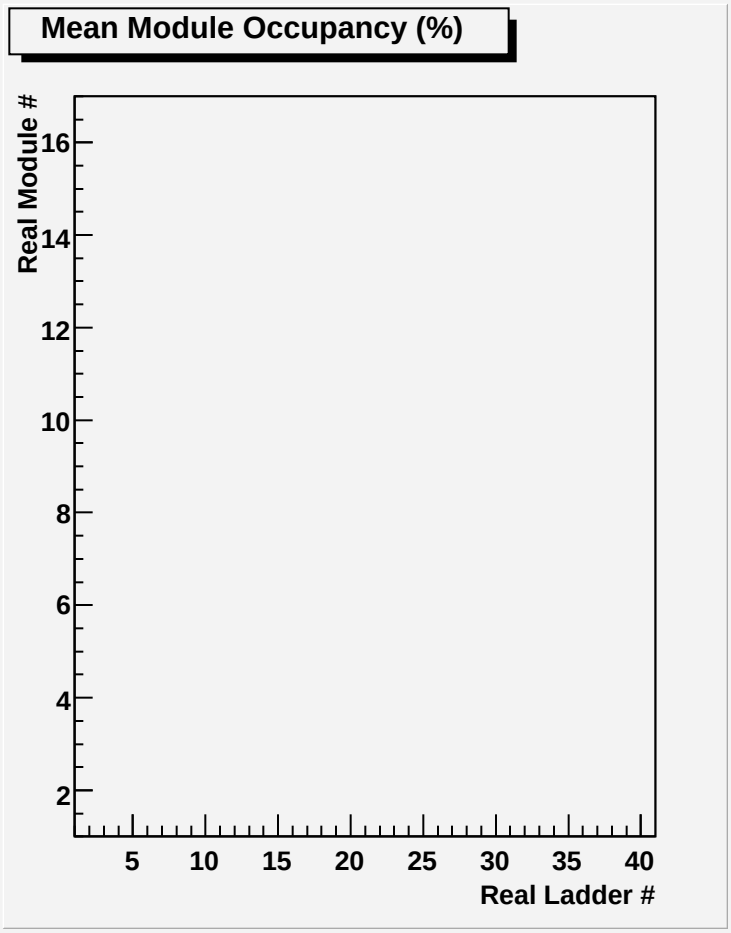

log of SSD Buffer Size
h250_ssd_evsize
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10

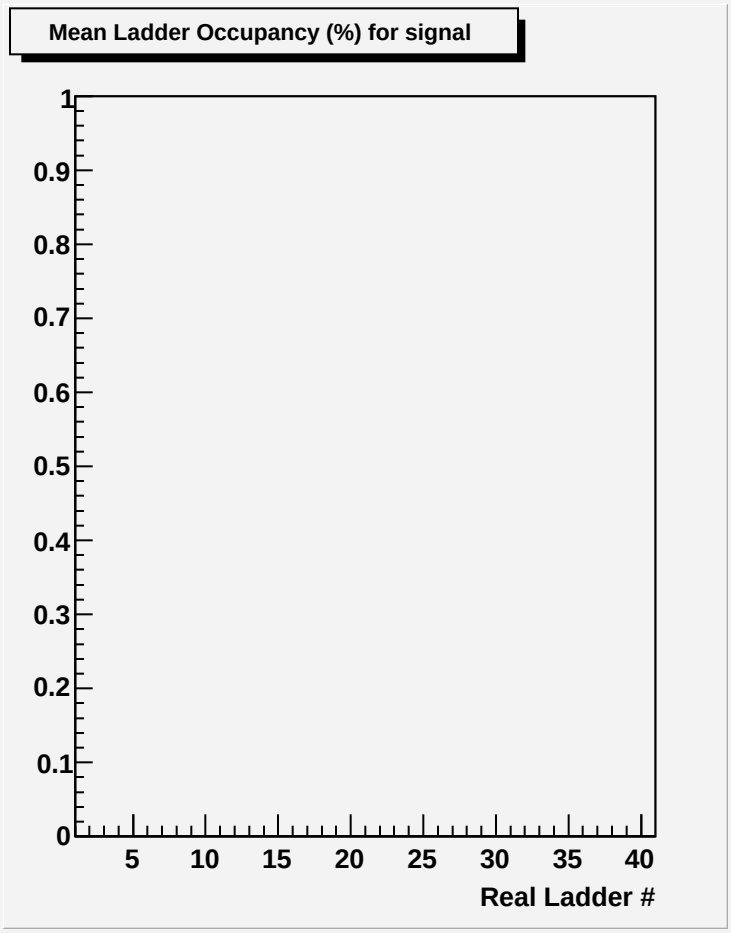

SSD Event Size Fraction (%)
h251_ssd_frac
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10 20 30 40 50 60 70 80 90 100

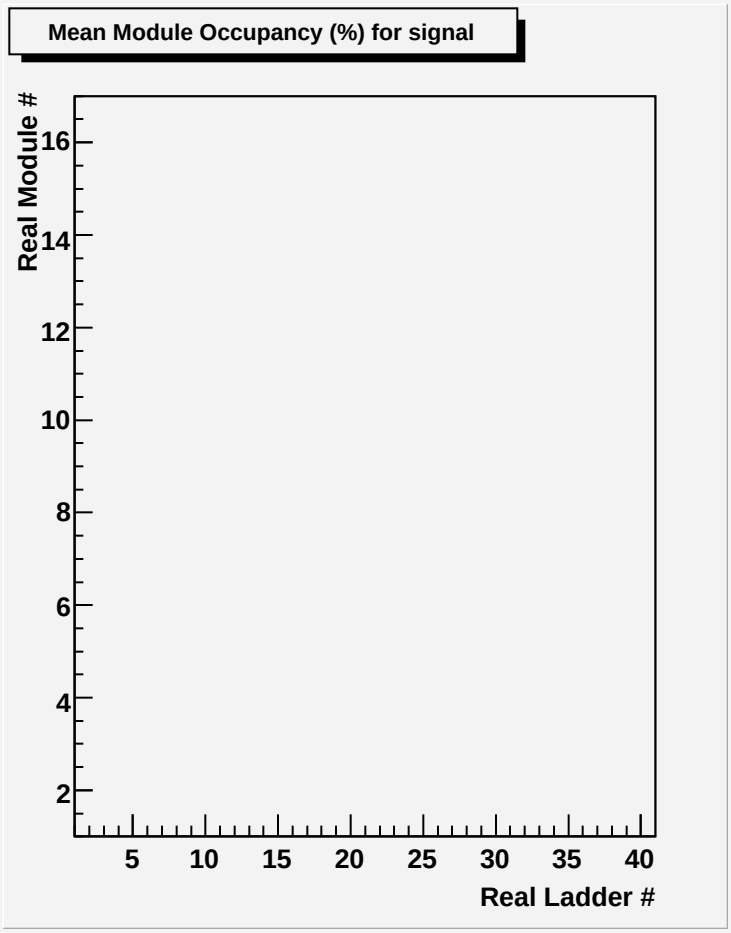

Mean pulse per strip for ladders
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25 30 35 40
Real Ladder #

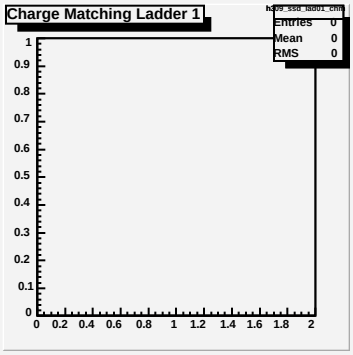

Mean pulse per strip for modules
Real Module #
16
14
12
10
8
6
4
2
5 10 15 20 25 30 35 40
Real Ladder #

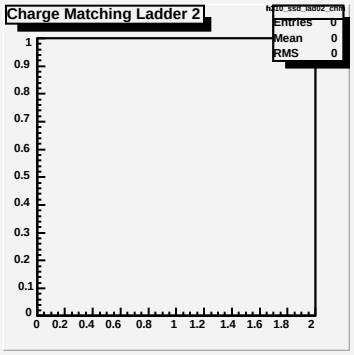

Mean Ladder Occupancy (%)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
10
15
20
25
30
35
40
Real Ladder #

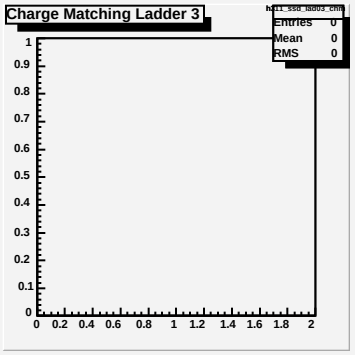

Mean Module Occupancy (%)
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #

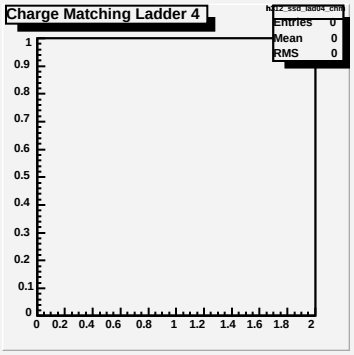

Mean Ladder Occupancy (%) for signal
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
10
15
20
25
30
35
40
Real Ladder #

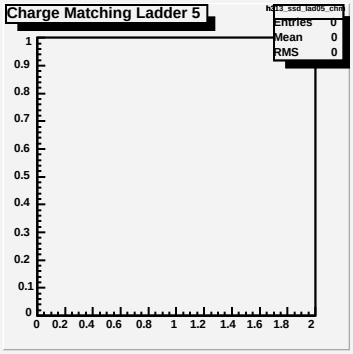

Mean Module Occupancy (%) for signal
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #

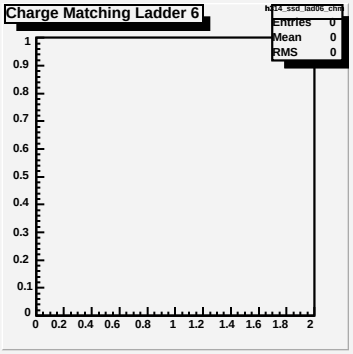

Charge Matching Ladder 1
h209_ssd_lad01_chn
Entries 0
Mean 0
RMS 0

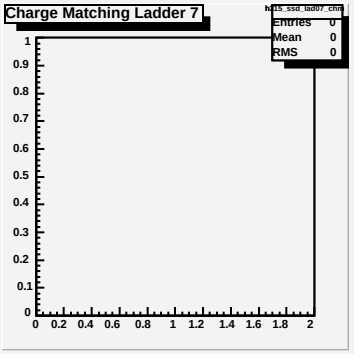

Charge Matching Ladder 2
h210_ssd_lad02_chn
Entries 0
Mean 0
RMS 0

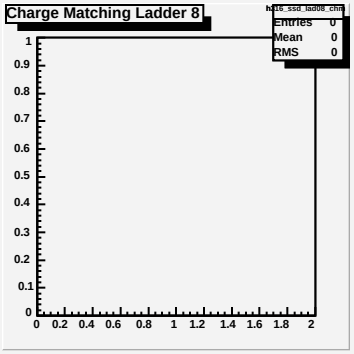

Charge Matching Ladder 3
h211_ssd_lad03_chn
Entries 0
Mean 0
RMS 0

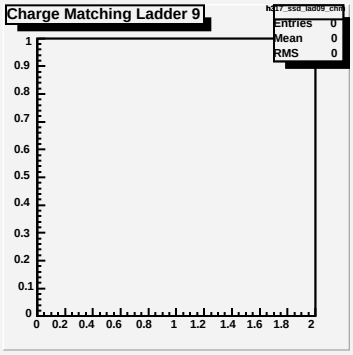

Charge Matching Ladder 4
h212_ssd_lad04_chn
Entries 0
Mean 0
RMS 0

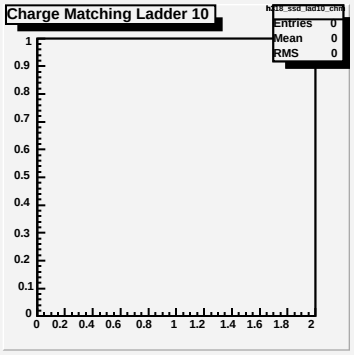

Charge Matching Ladder 5
h213_ssd_lad05_chn
Entries 0
Mean 0
RMS 0

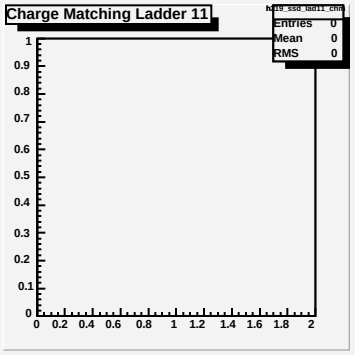

Charge Matching Ladder 6
h214_ssd_lad06_chn
Entries 0
Mean 0
RMS 0

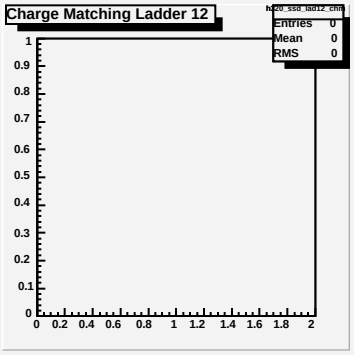

Charge Matching Ladder 7
h215_ssd_lad07_chn
Entries 0
Mean 0
RMS 0

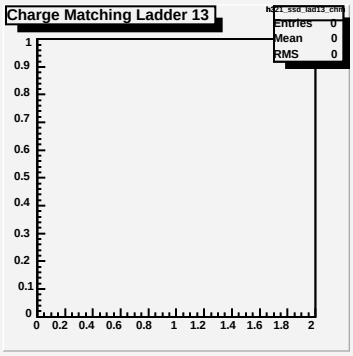

Charge Matching Ladder 8
h216_ssd_lad08_chn
Entries 0
Mean 0
RMS 0

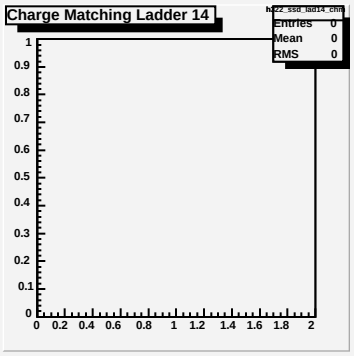

Charge Matching Ladder 9
h217_ssd_lad09_chn
Entries 0
Mean 0
RMS 0

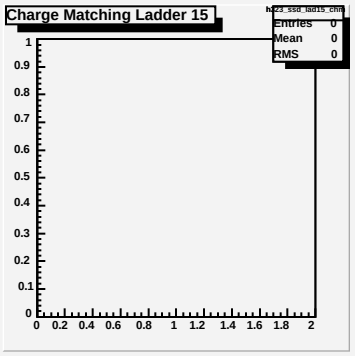

Charge Matching Ladder 10
h218_ssd_lad10_chn
Entries 0
Mean 0
RMS 0

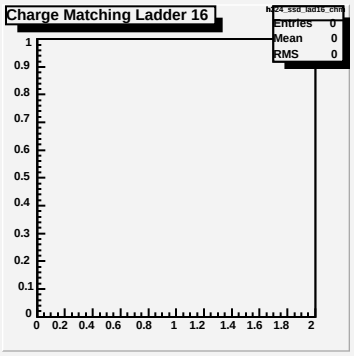

Charge Matching Ladder 11
h219_ssd_lad11_chn
Entries 0
Mean 0
RMS 0

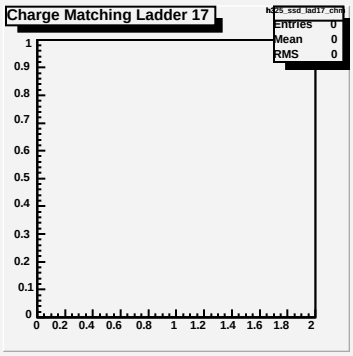

Charge Matching Ladder 12
h220_ssd_lad12_chn
Entries 0
Mean 0
RMS 0

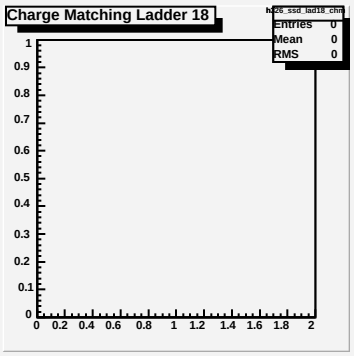

Charge Matching Ladder 13
h221_ssd_lad13_chn
Entries 0
Mean 0
RMS 0

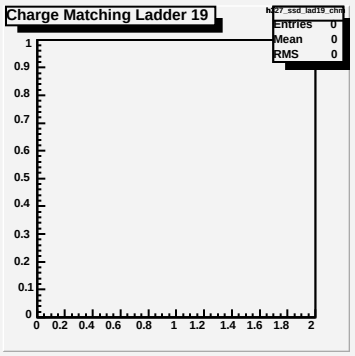

Charge Matching Ladder 14
h222_ssd_lad14_chn
Entries 0
Mean 0
RMS 0

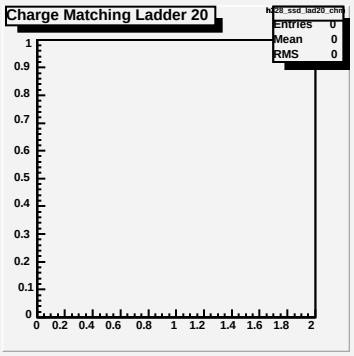

Charge Matching Ladder 15
h223_ssd_lad15_chn
Entries 0
Mean 0
RMS 0

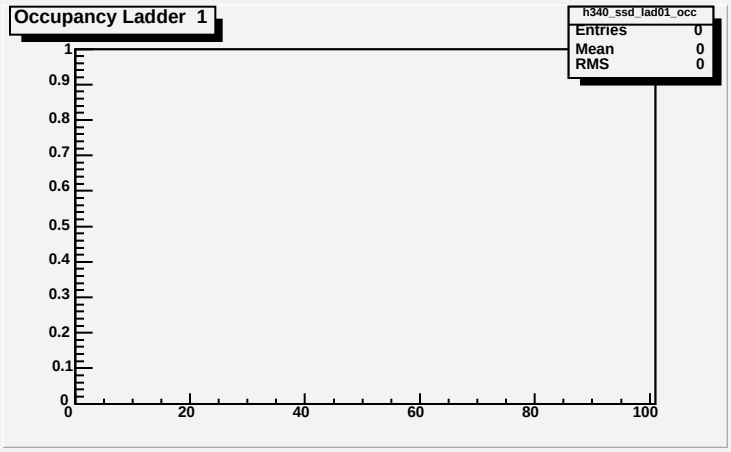

Charge Matching Ladder 16
h224_ssd_lad16_chn
Entries 0
Mean 0
RMS 0

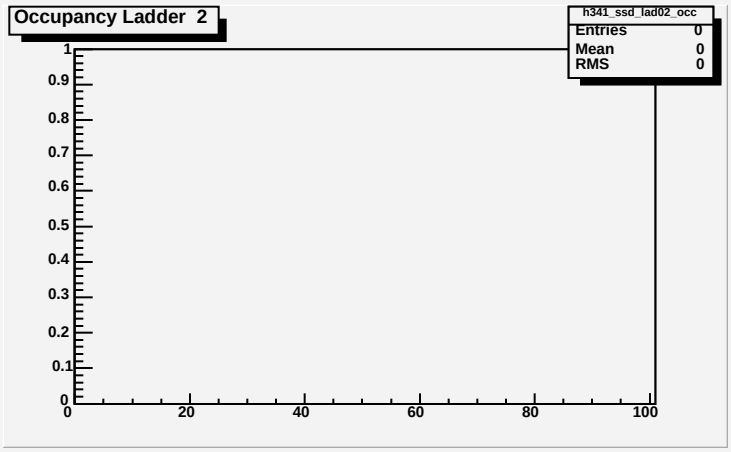

Charge Matching Ladder 17
h225_ssd_lad17_chn
Entries 0
Mean 0
RMS 0


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

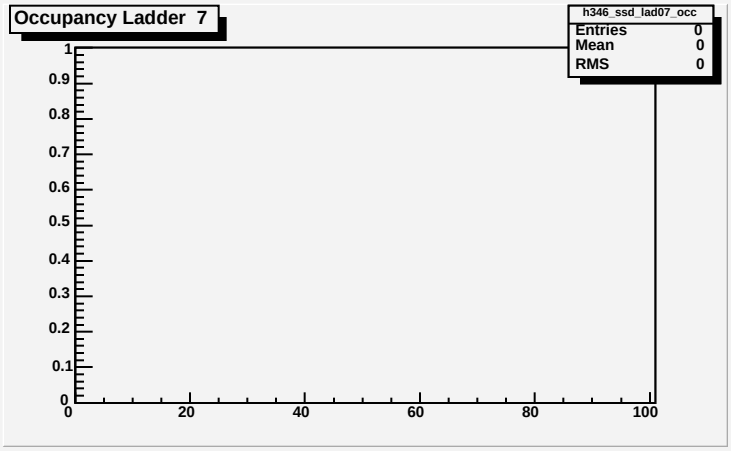

Occupancy Ladder 2
h341_ssd_lad02_occ
Entries 0
Mean 0
RMS 0

Occupancy Ladder 3
h342_ssd_lad03_occ
Entries 0
Mean 0
RMS 0

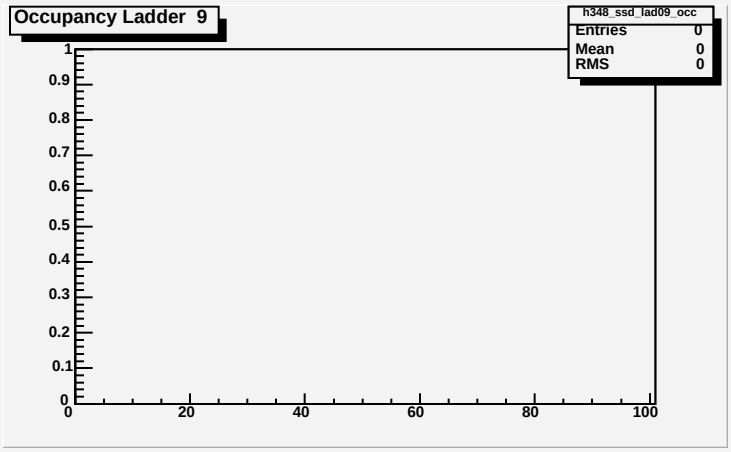
Occupancy Ladder 4
h343_ssd_lad04_occ
Entries 0
Mean 0
RMS 0

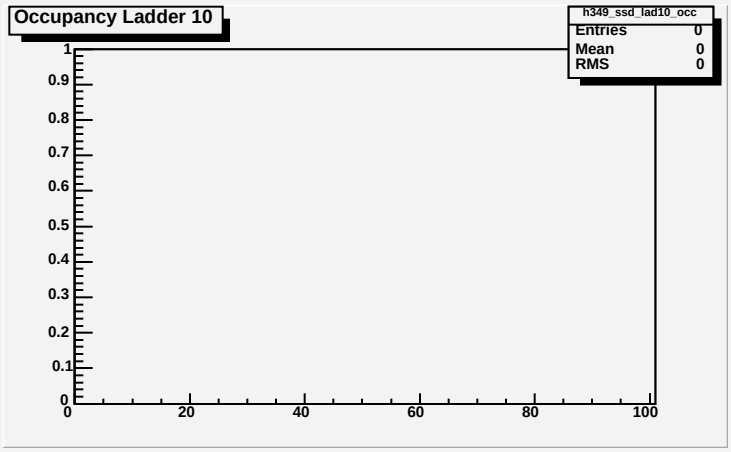
Occupancy Ladder 5
h344_ssd_lad05_occ
Entries 0
Mean 0
RMS 0

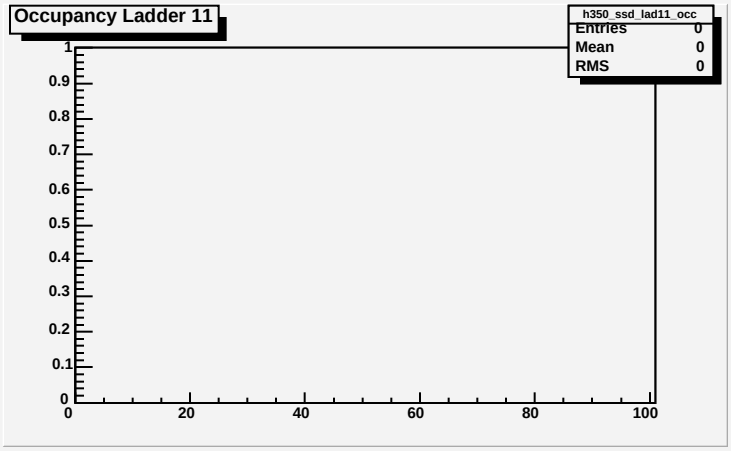
Occupancy Ladder 6
h345_ssd_lad06_occ
Entries 0
Mean 0
RMS 0


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

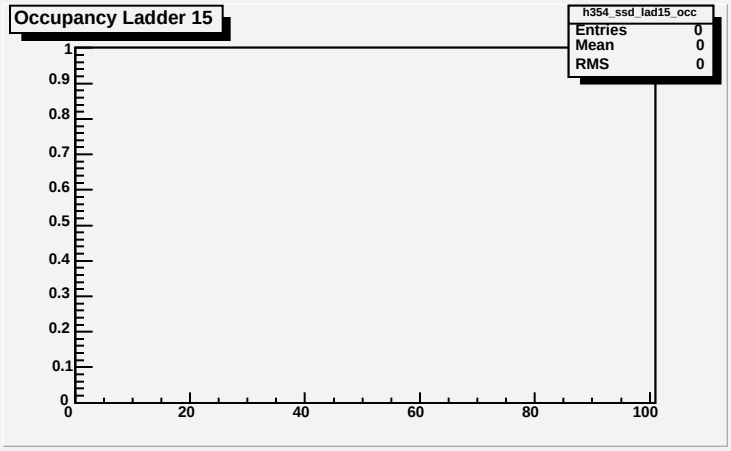

Occupancy Ladder 10
h349_ssd_lad10_occ
Entries 0
Mean 0
RMS 0

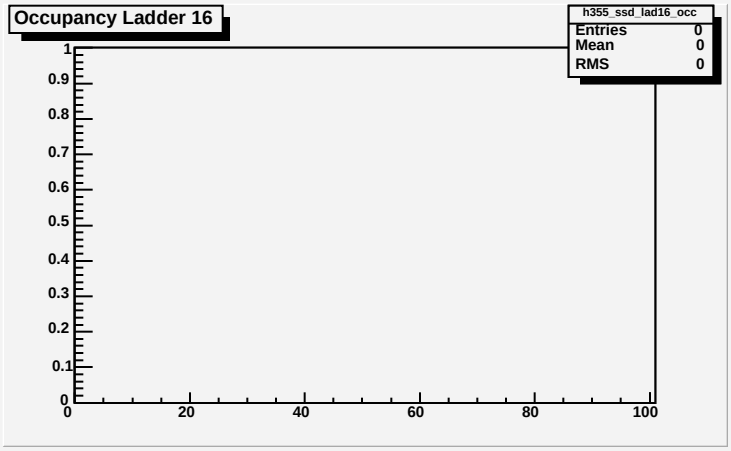

Occupancy Ladder 11
h350_ssd_lad11_occ
Entries 0
Mean 0
RMS 0

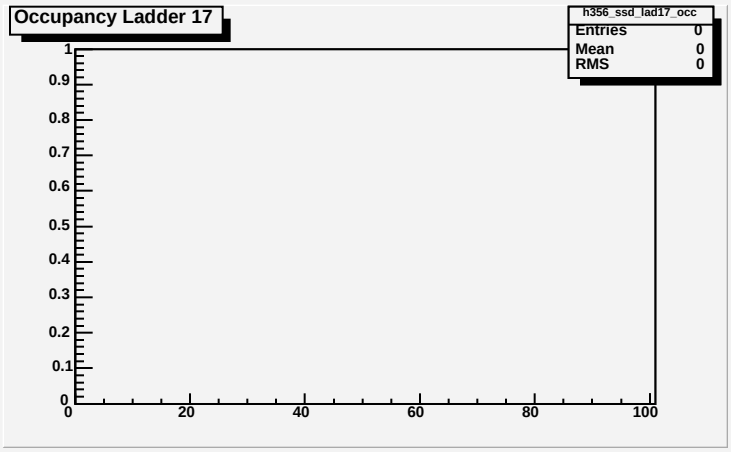
Occupancy Ladder 12
h351_ssd_lad12_occ
Entries 0
Mean 0
RMS 0

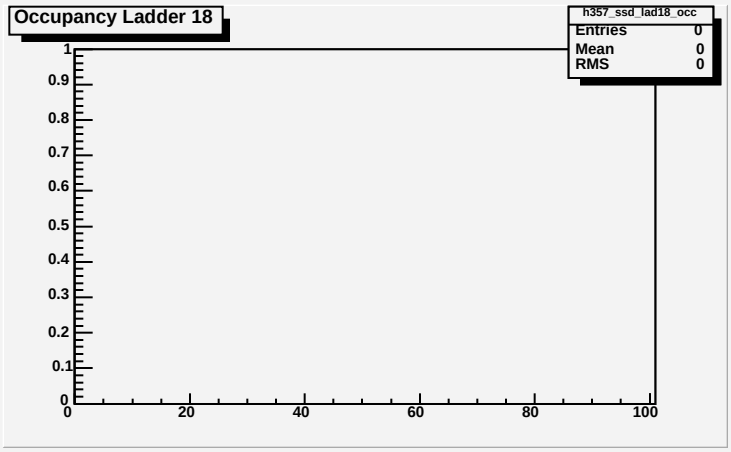
Occupancy Ladder 13
h352_ssd_lad13_occ
Entries 0
Mean 0
RMS 0

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

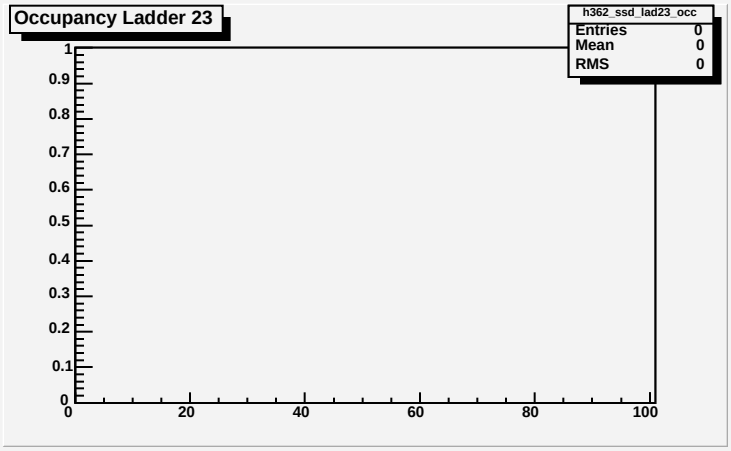

Occupancy Ladder 18
h357_ssd_lad18_occ
Entries 0
Mean 0
RMS 0

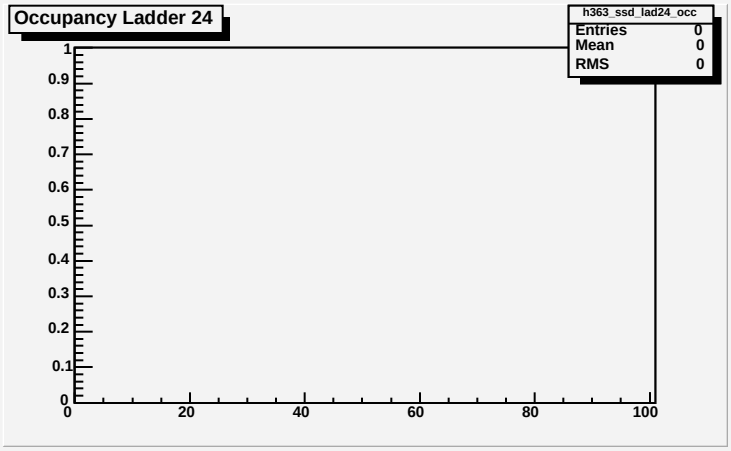
Occupancy Ladder 19
h358_ssd_lad19_occ
Entries 0
Mean 0
RMS 0

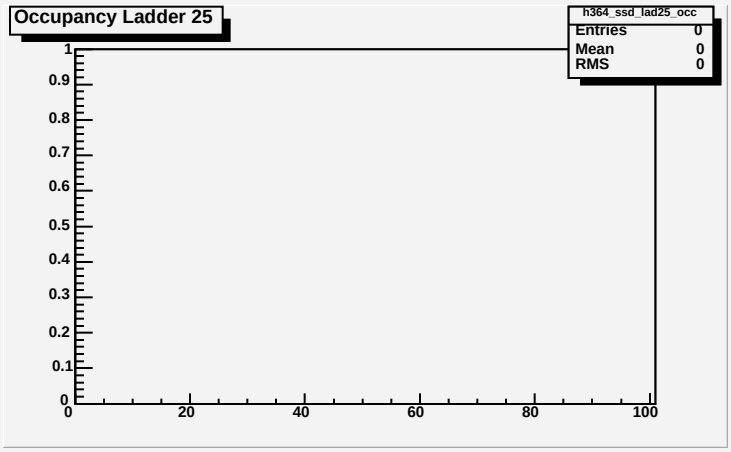
Occupancy Ladder 20
h359_ssd_lad20_occ
Entries 0
Mean 0
RMS 0

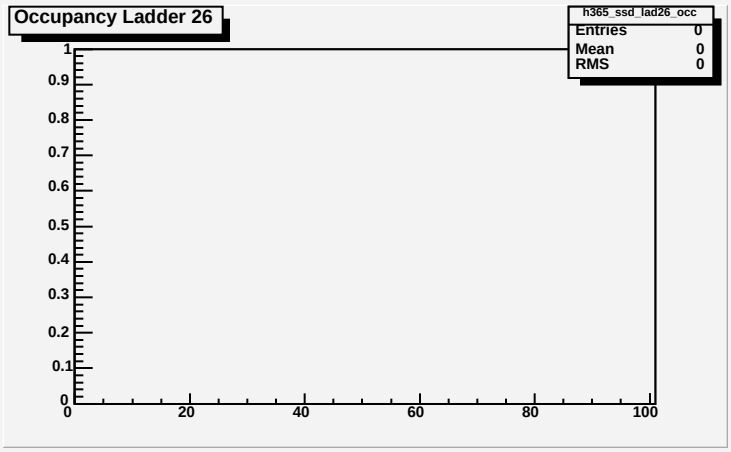
Occupancy Ladder 21
h360_ssd_lad21_occ
Entries 0
Mean 0
RMS 0

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

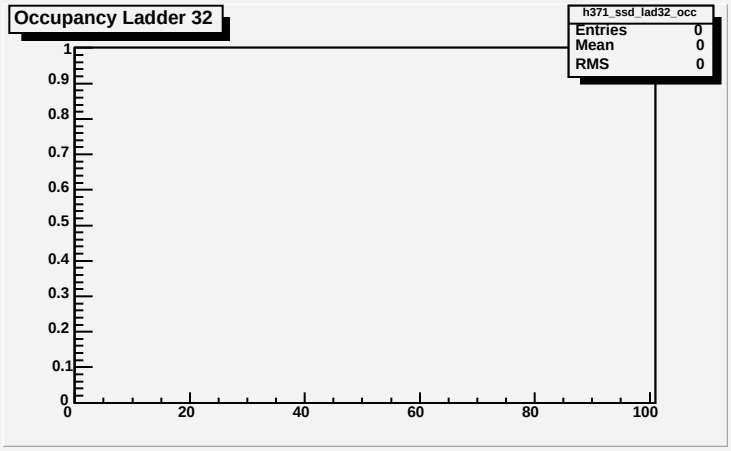
Occupancy Ladder 27
h366_ssd_lad27_occ
Entries 0
Mean 0
RMS 0

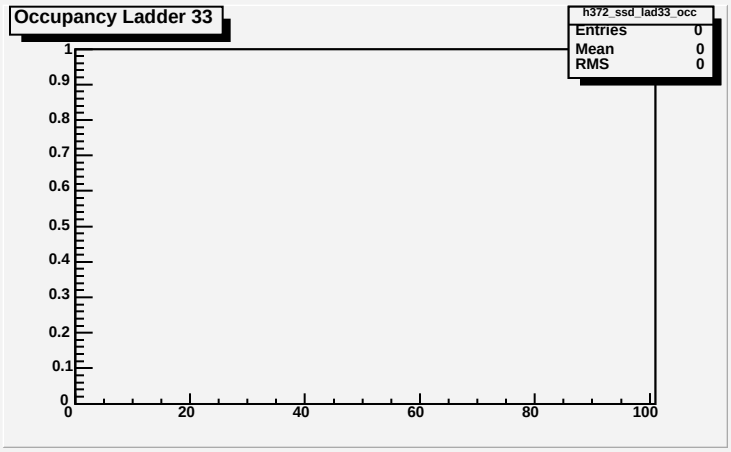
Occupancy Ladder 28
h367_ssd_lad28_occ
Entries 0
Mean 0
RMS 0

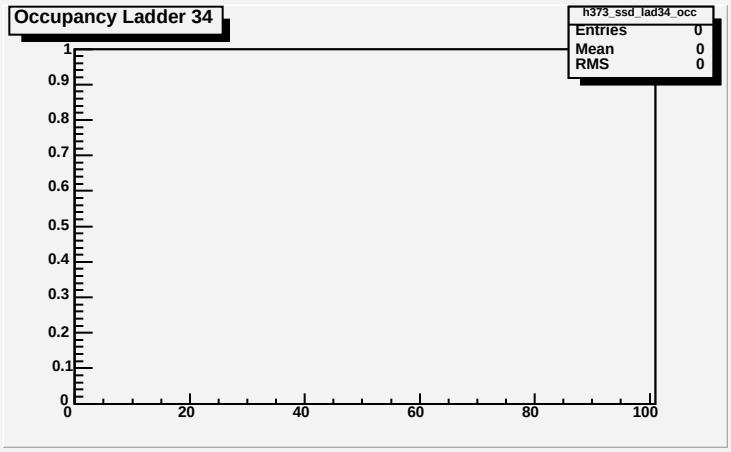
Occupancy Ladder 29
h368_ssd_lad29_occ
Entries 0
Mean 0
RMS 0

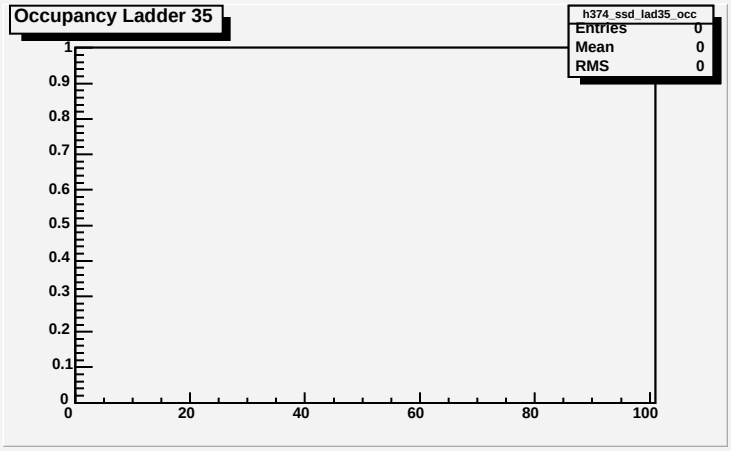
Occupancy Ladder 30
h369_ssd_lad30_occ
Entries 0
Mean 0
RMS 0

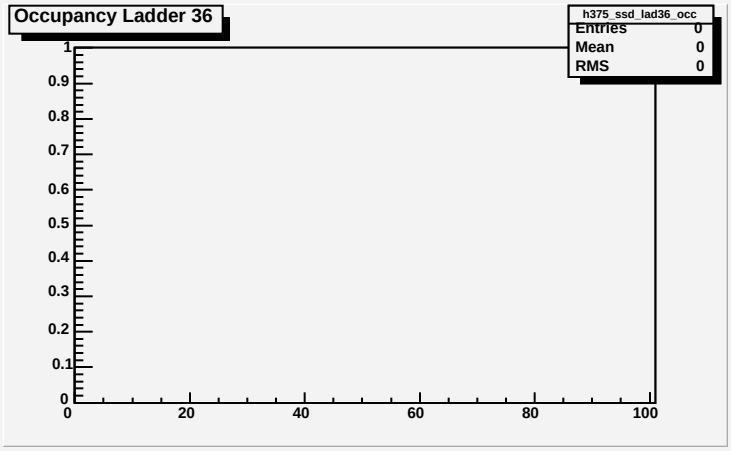
Occupancy Ladder 31
h370_ssd_lad31_occ
Entries 0
Mean 0
RMS 0

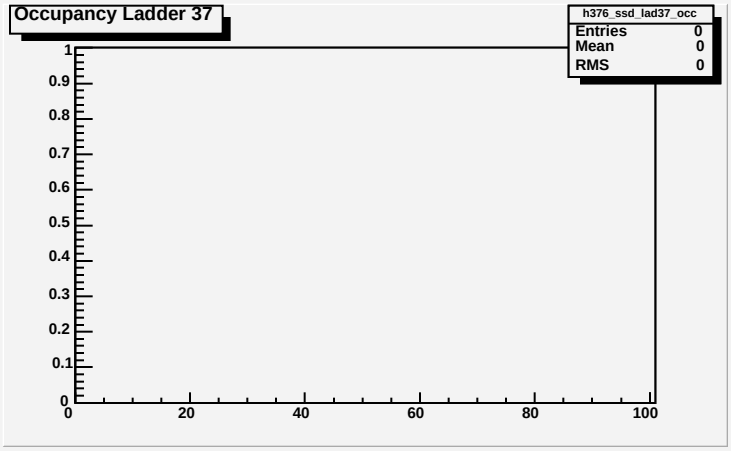

Occupancy Ladder 32
h371_ssd_lad32_occ
Entries 0
Mean 0
RMS 0


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

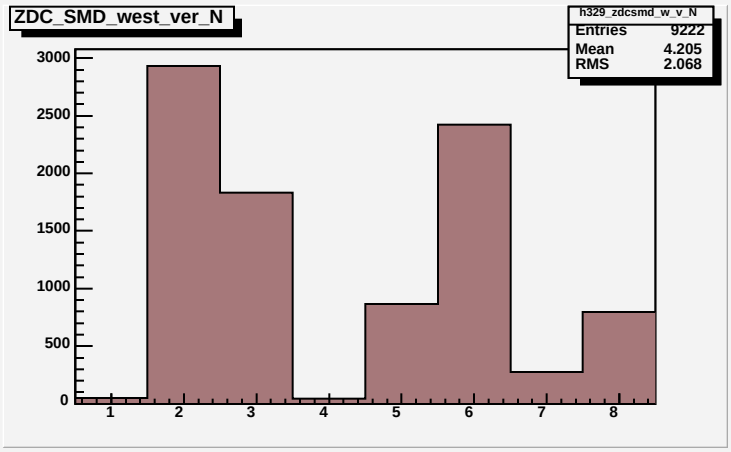

Occupancy Ladder 36
h375_ssd_lad36_occ
Entries 0
Mean 0
RMS 0

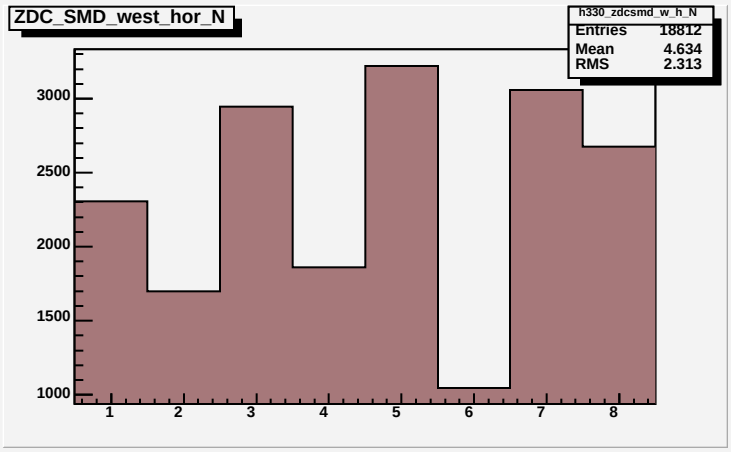

Occupancy Ladder 37
h376_ssd_lad37_occ
Entries 0
Mean 0
RMS 0

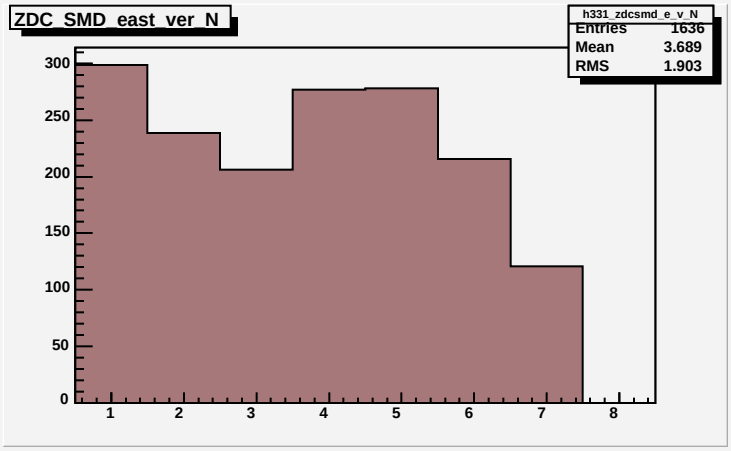
Occupancy Ladder 38
h377_ssd_lad38_occ
Entries 0
Mean 0
RMS 0

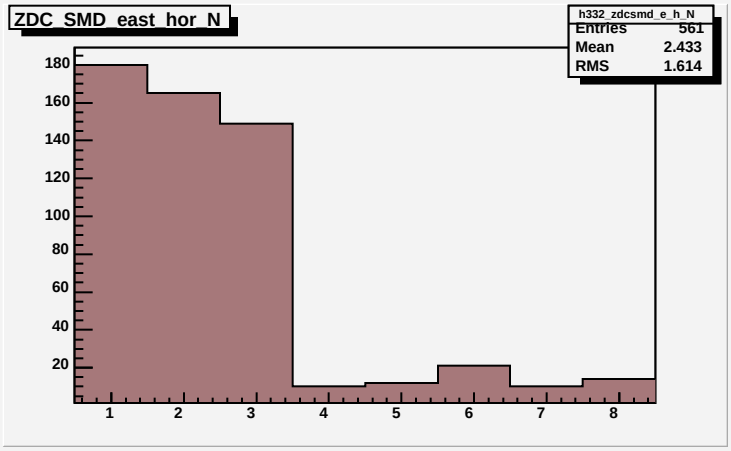
Occupancy Ladder 39
h378_ssd_lad39_occ
Entries 0
Mean 0
RMS 0

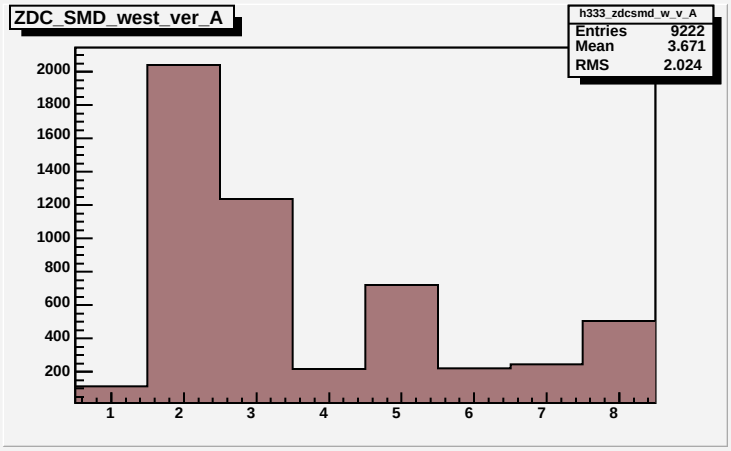
Occupancy Ladder 40
h379_ssd_lad40_occ
Entries 0
Mean 0
RMS 0

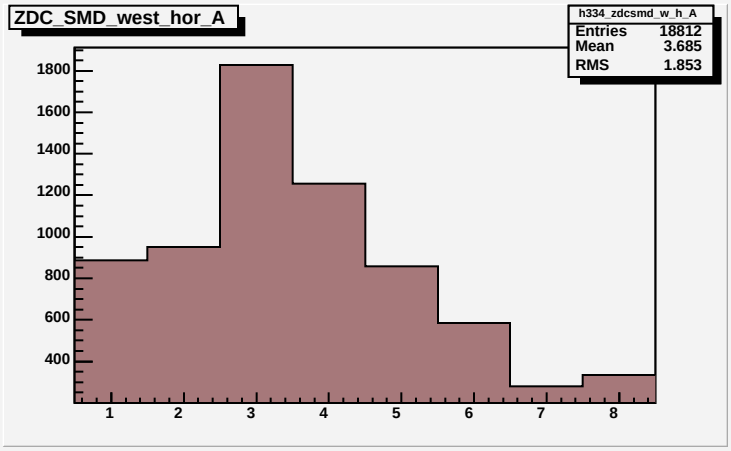

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 9222
Mean 4.205
RMS 2.068

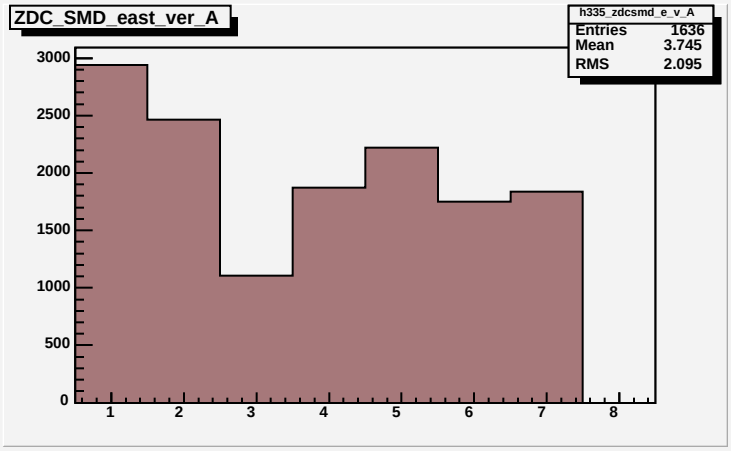

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 18812
Mean 4.634
RMS 2.313

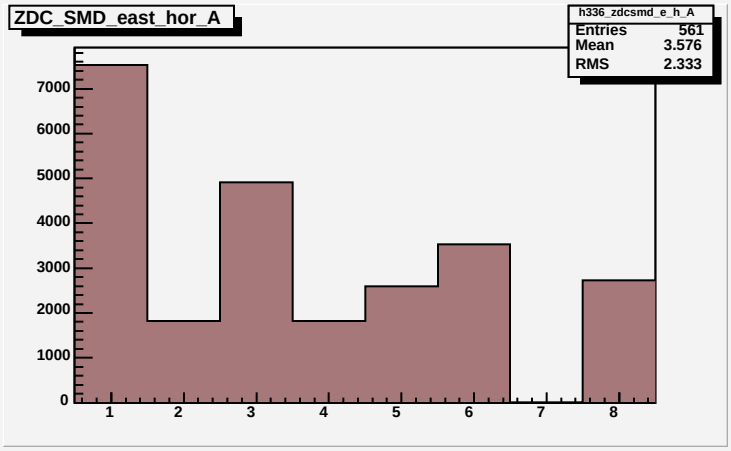

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 1636
Mean 3.689
RMS 1.903

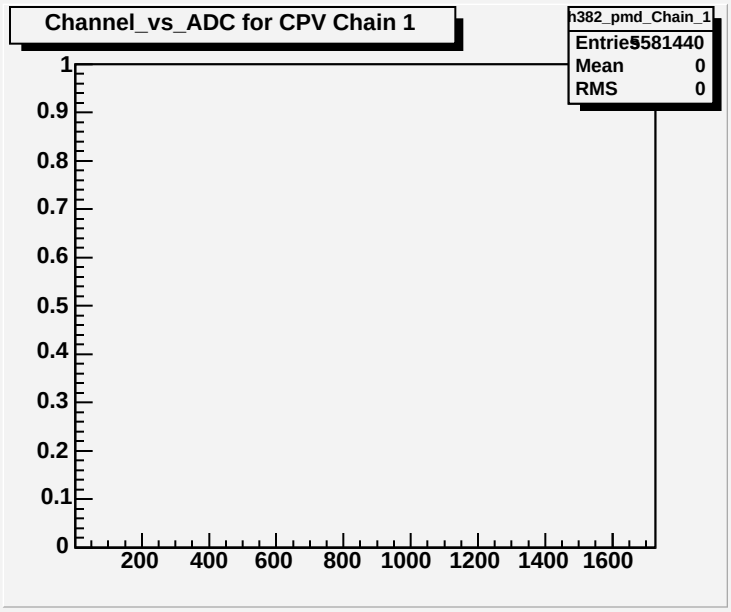

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 561
Mean 2.433
RMS 1.614

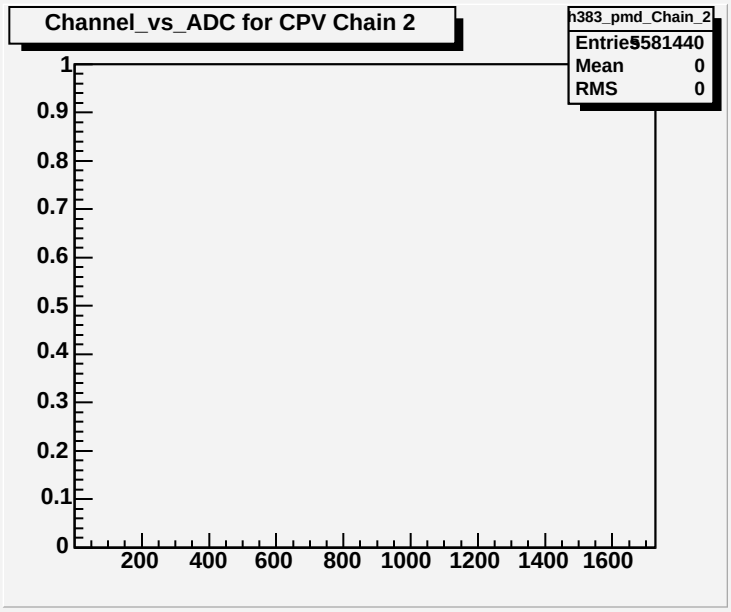

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 9222
Mean 3.671
RMS 2.024

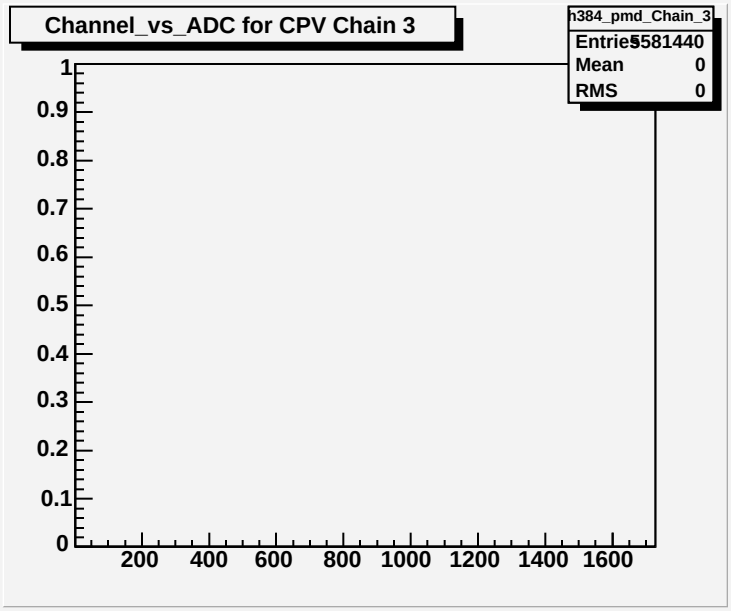

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 18812
Mean 3.685
RMS 1.853

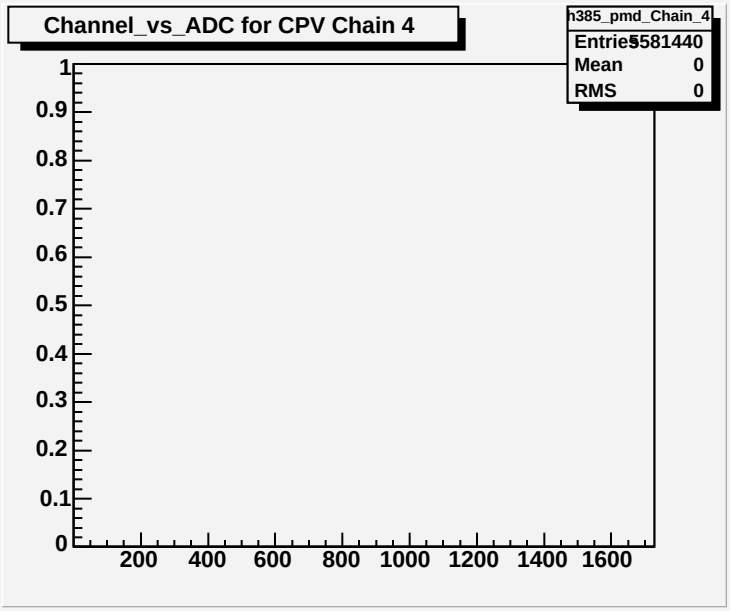

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 1636
Mean 3.745
RMS 2.095

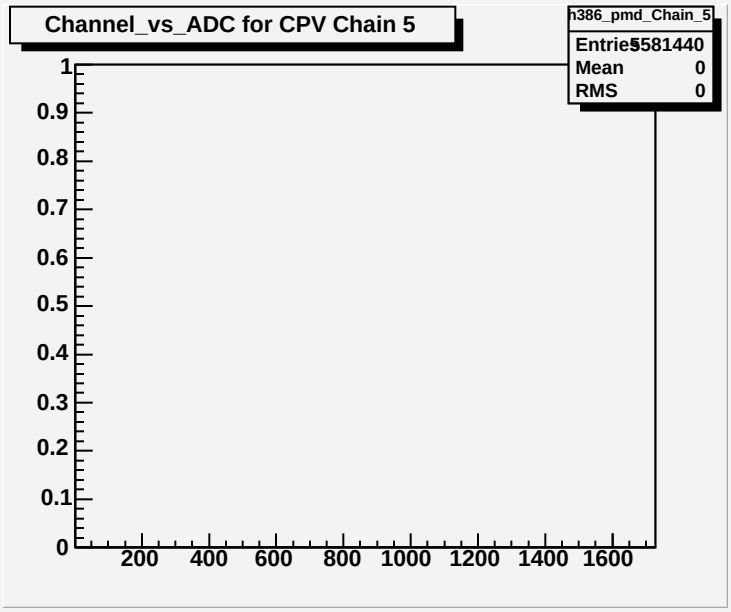

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 561
Mean 3.576
RMS 2.333

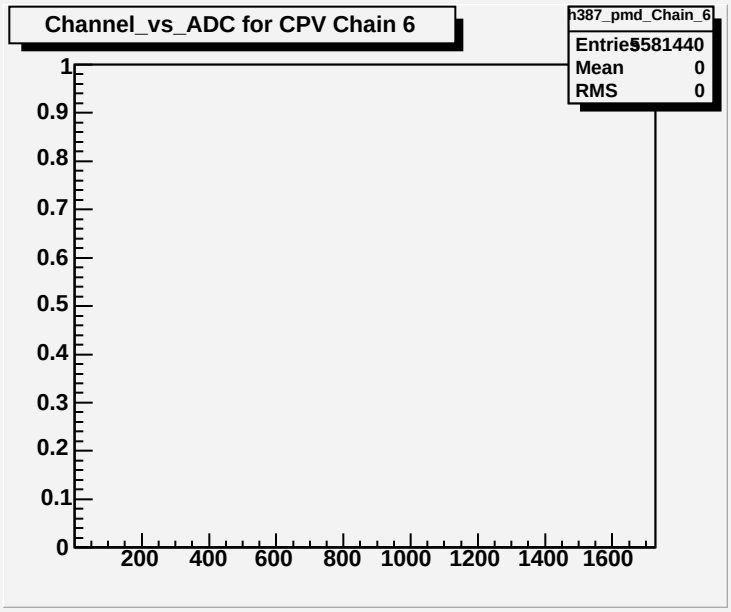

Channel_vs_ADC for CPV Chain 1
h382_pmd_Chain_1
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

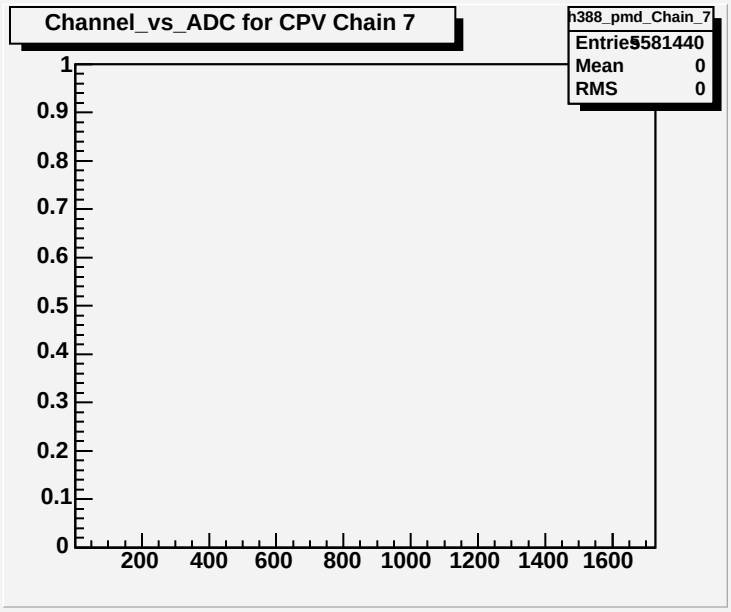

Channel_vs_ADC for CPV Chain 2
h383_pmd_Chain_2
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

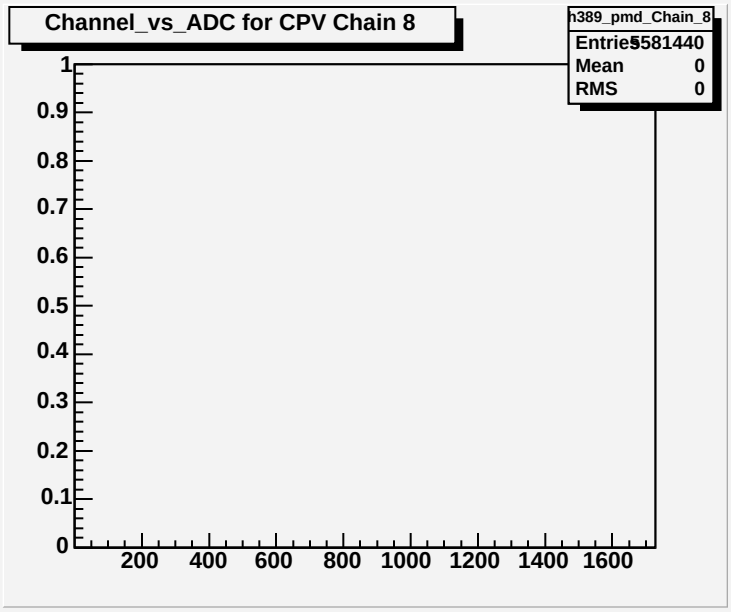

Channel_vs_ADC for CPV Chain 3
h384_pmd_Chain_3
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

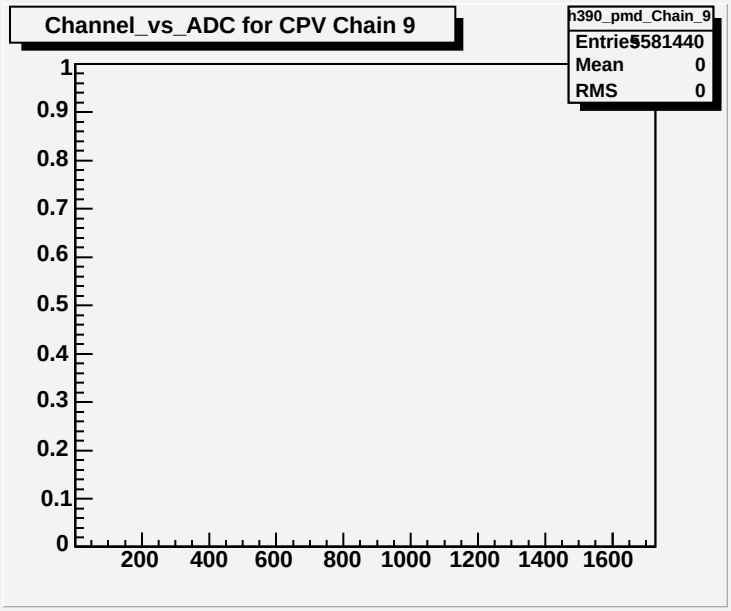

Channel_vs_ADC for CPV Chain 4
h385_pmd_Chain_4
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

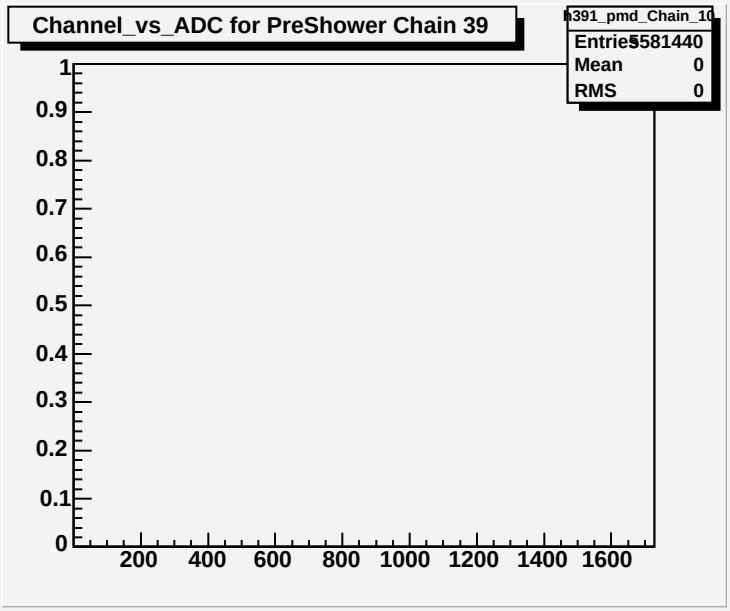

Channel_vs_ADC for CPV Chain 5
h386_pmd_Chain_5
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

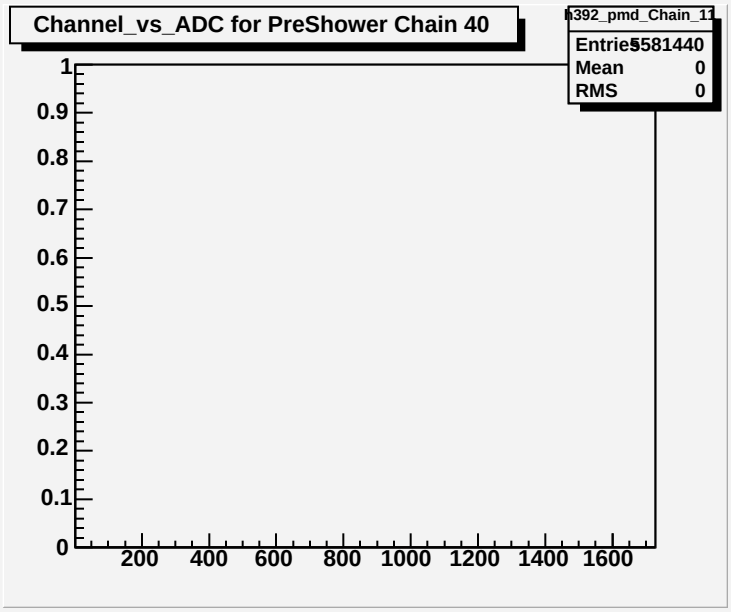

Channel_vs_ADC for CPV Chain 6
h387_pmd_Chain_6
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

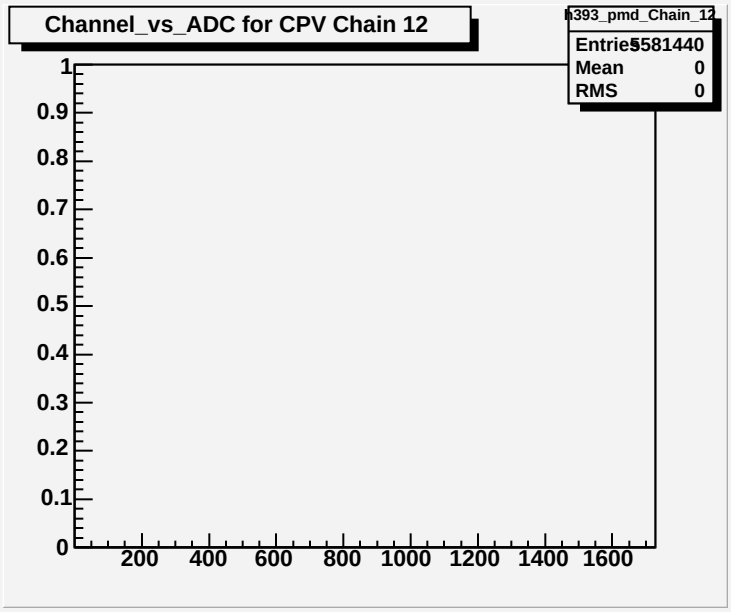

Channel_vs_ADC for CPV Chain 7
h388_pmd_Chain_7
Entries 5581440
Mean 0
RMS 0

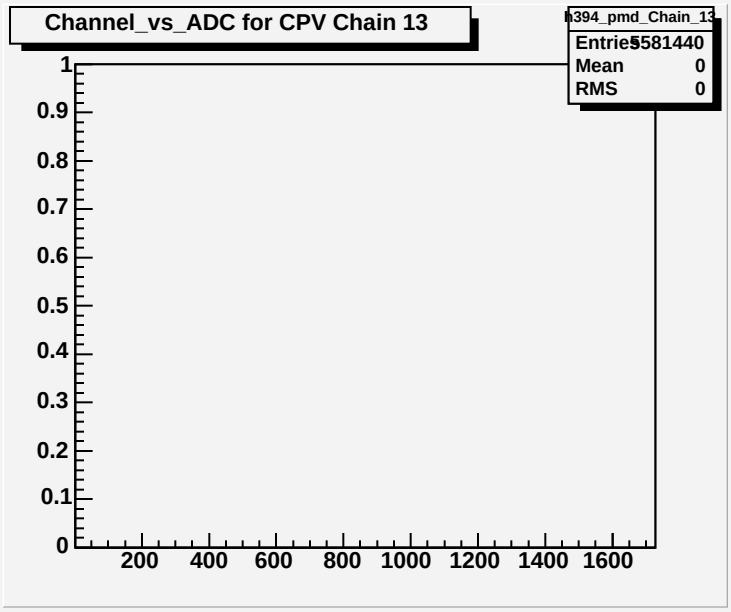

Channel_vs_ADC for CPV Chain 8
h389_pmd_Chain_8
Entries 5581440
Mean 0
RMS 0

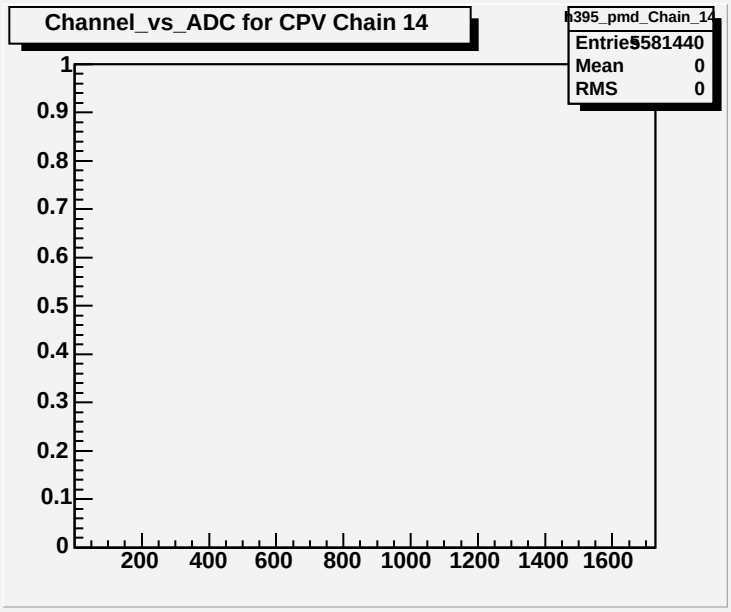

Channel_vs_ADC for CPV Chain 9
h390_pmd_Chain_9
Entries 5581440
Mean 0
RMS 0

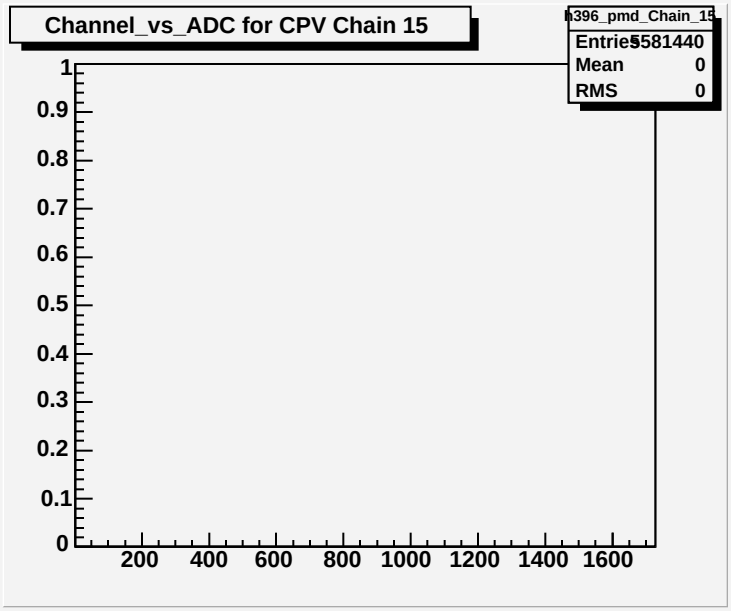

Channel_vs_ADC for PreShower Chain 39
h391_pmd_Chain_10
Entries 5581440
Mean 0
RMS 0

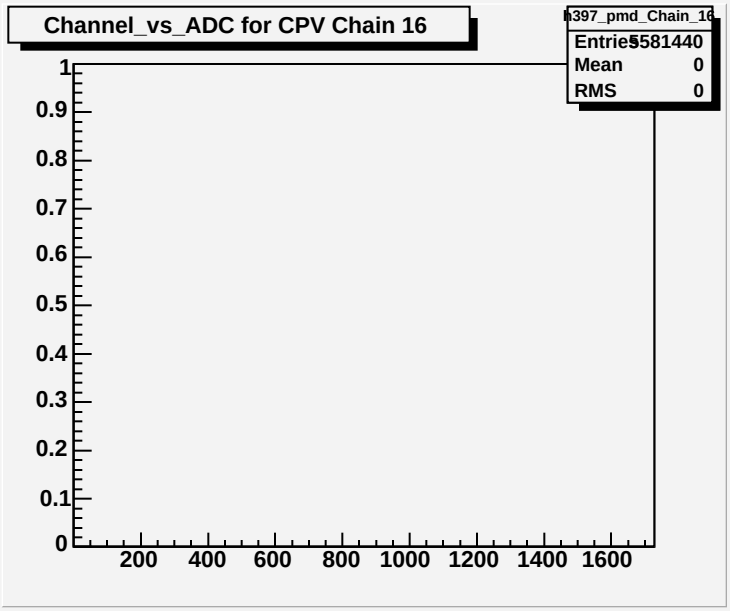

Channel_vs_ADC for PreShower Chain 40
h392_pmd_Chain_11
Entries 5581440
Mean 0
RMS 0

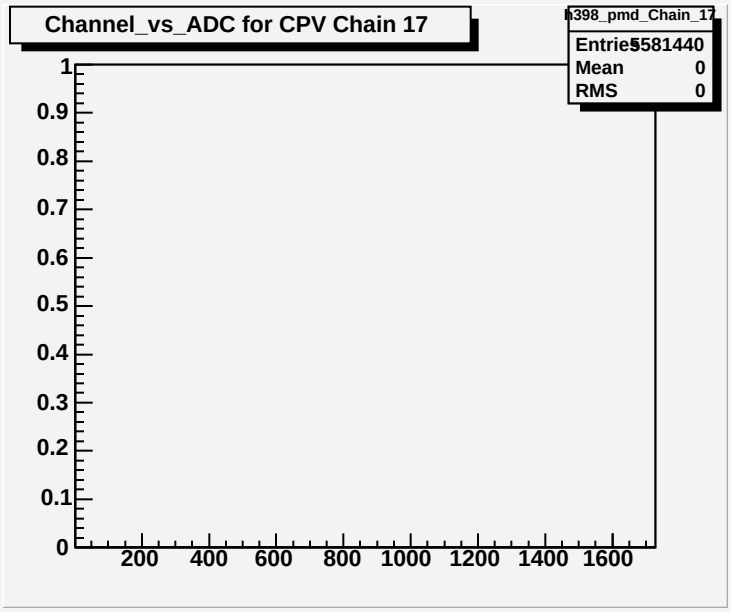

Channel_vs_ADC for CPV Chain 12
h393_pmd_Chain_12
Entries 5581440
Mean 0
RMS 0

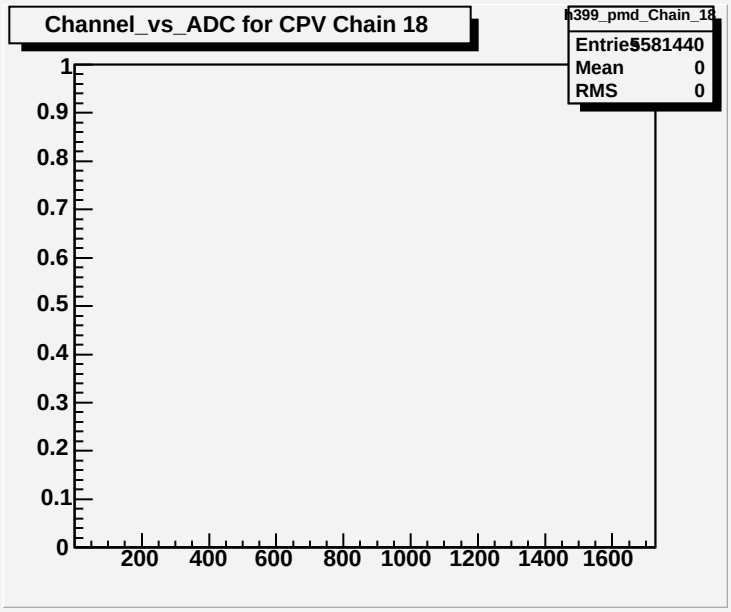

Channel_vs_ADC for CPV Chain 13
h394_pmd_Chain_13
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

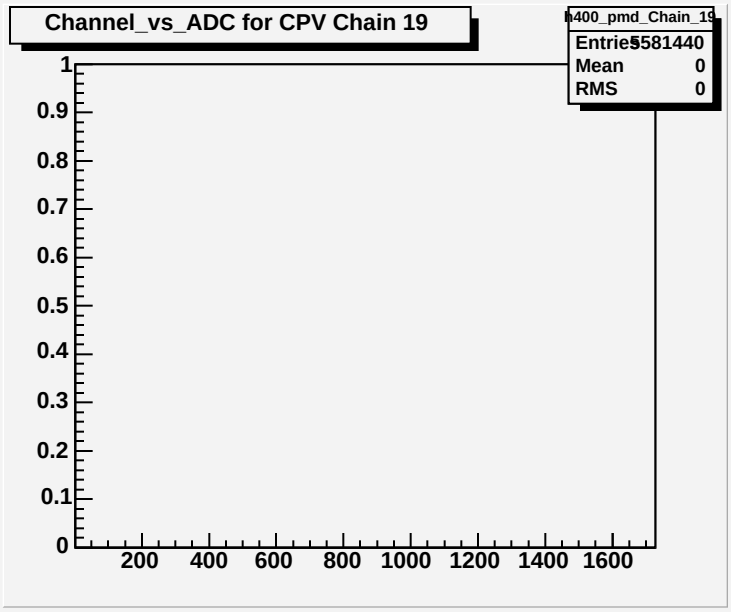

Channel_vs_ADC for CPV Chain 14
h395_pmd_Chain_14
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

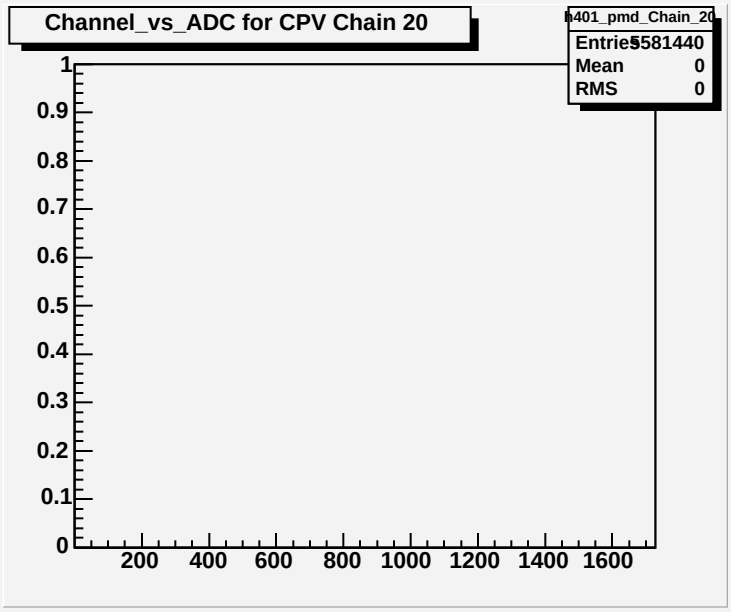

Channel_vs_ADC for CPV Chain 15
h396_pmd_Chain_15
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

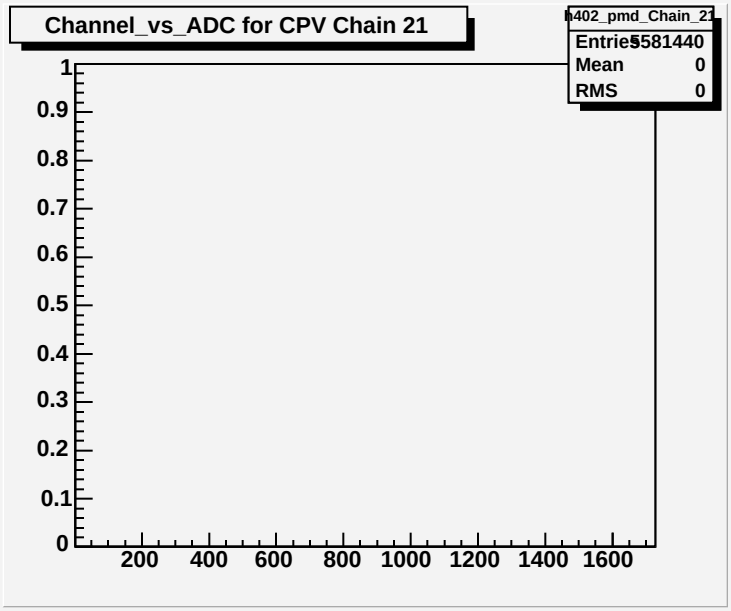

Channel_vs_ADC for CPV Chain 16
h397_pmd_Chain_16
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

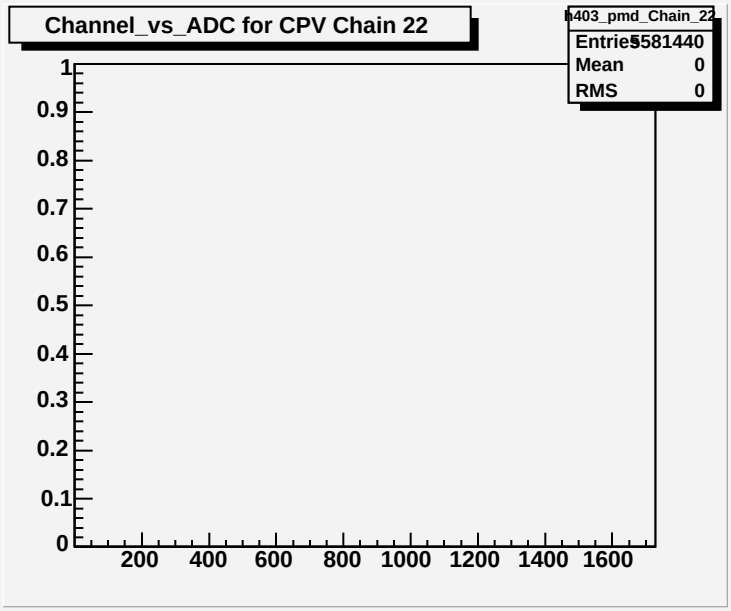

Channel_vs_ADC for CPV Chain 17
h398_pmd_Chain_17
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

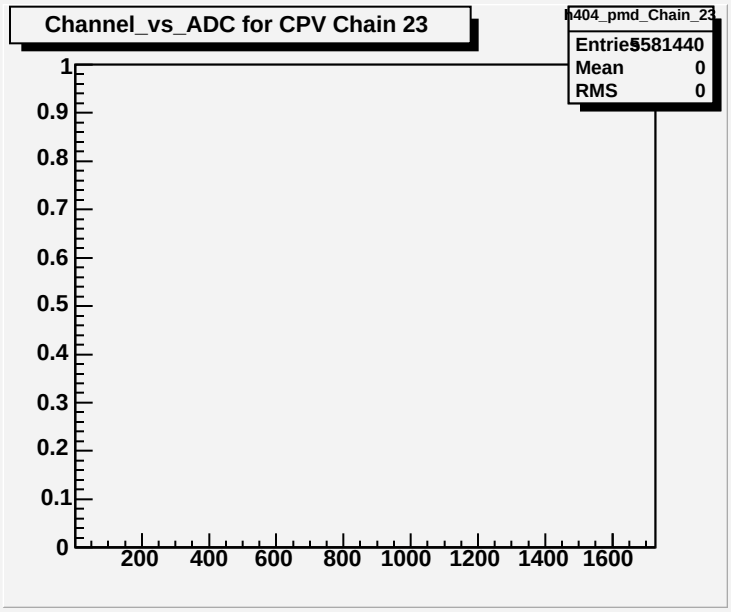

Channel_vs_ADC for CPV Chain 18
h399_pmd_Chain_18
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

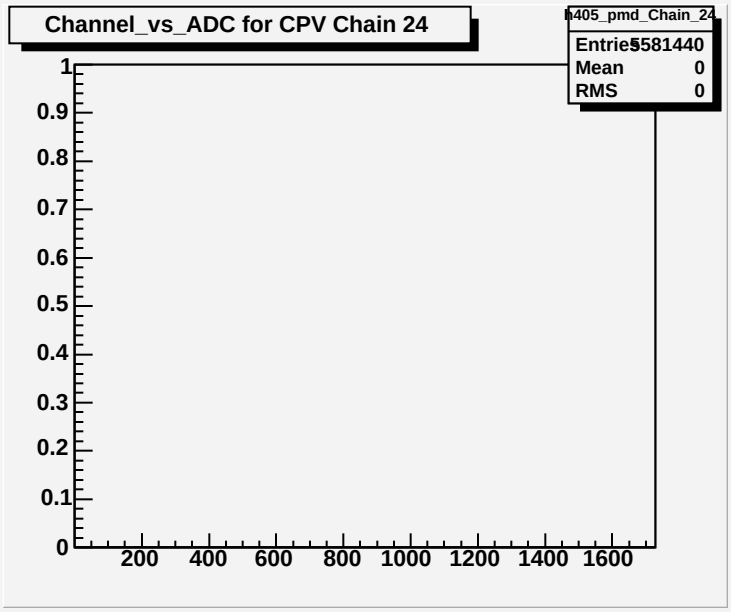

Channel_vs_ADC for CPV Chain 19
h400_pmd_Chain_19
Entries 5581440
Mean 0
RMS 0

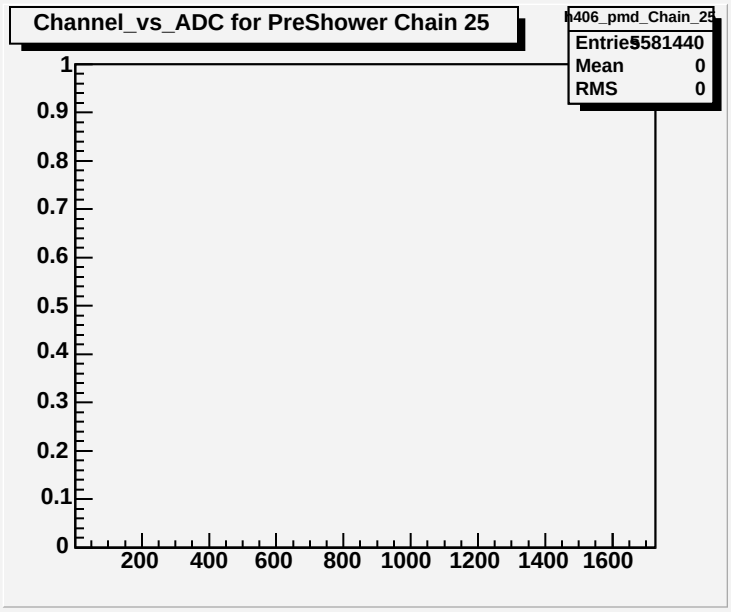

Channel_vs_ADC for CPV Chain 20
h401_pmd_Chain_20
Entries 5581440
Mean 0
RMS 0

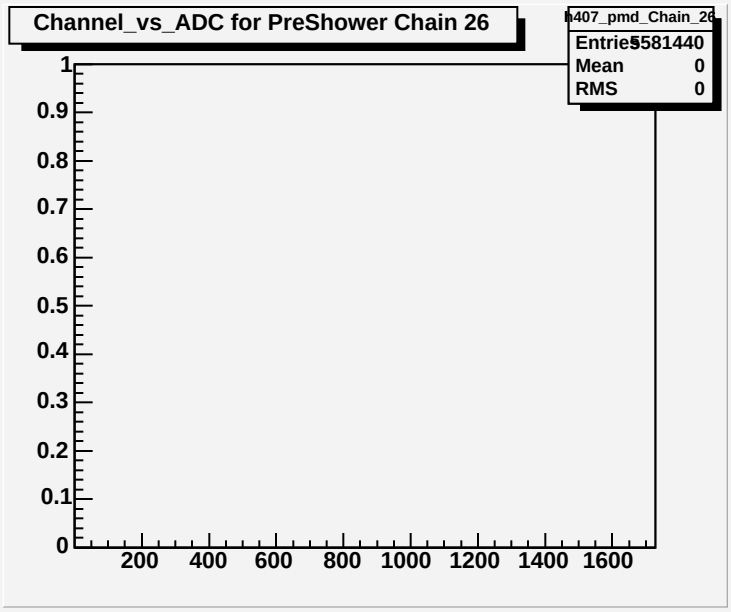

Channel_vs_ADC for CPV Chain 21
h402_pmd_Chain_21
Entries 5581440
Mean 0
RMS 0

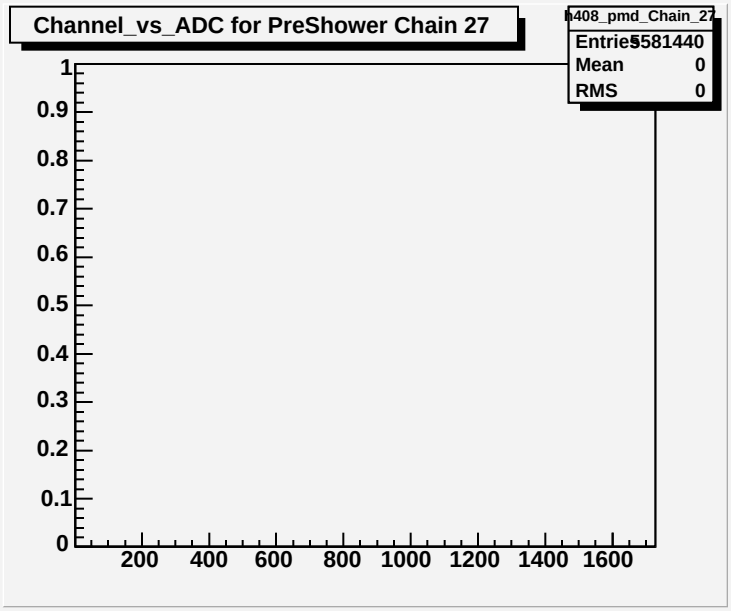

Channel_vs_ADC for CPV Chain 22
h403_pmd_Chain_22
Entries 5581440
Mean 0
RMS 0

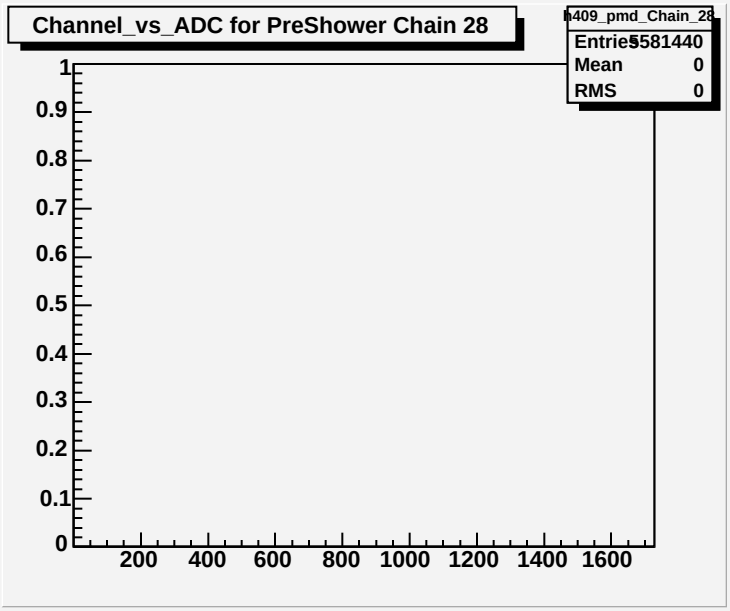

Channel_vs_ADC for CPV Chain 23
h404_pmd_Chain_23
Entries 5581440
Mean 0
RMS 0

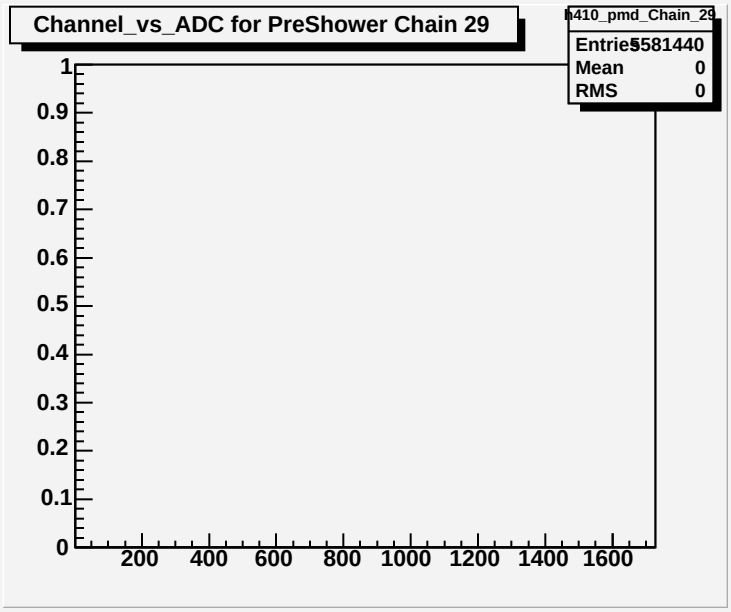

Channel_vs_ADC for CPV Chain 24
h405_pmd_Chain_24
Entries 5581440
Mean 0
RMS 0

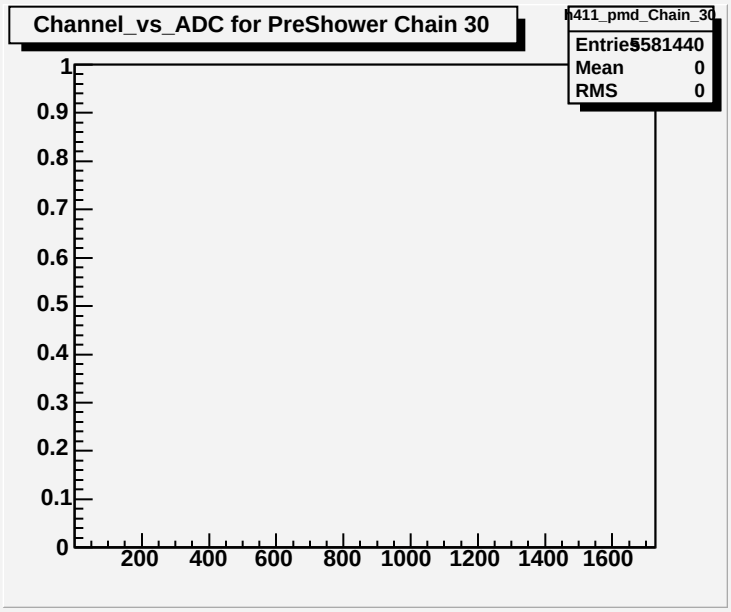

Channel_vs_ADC for PreShower Chain 25
h406_pmd_Chain_25
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

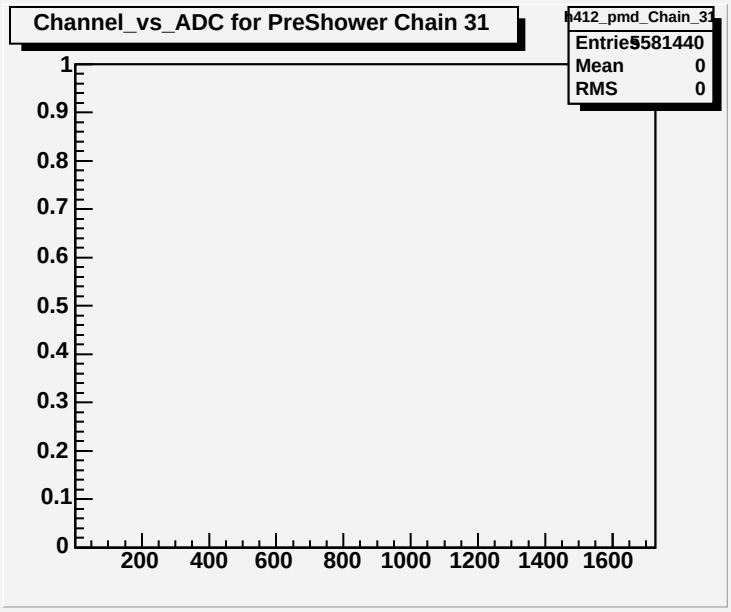

Channel_vs_ADC for PreShower Chain 26
h407_pmd_Chain_26
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

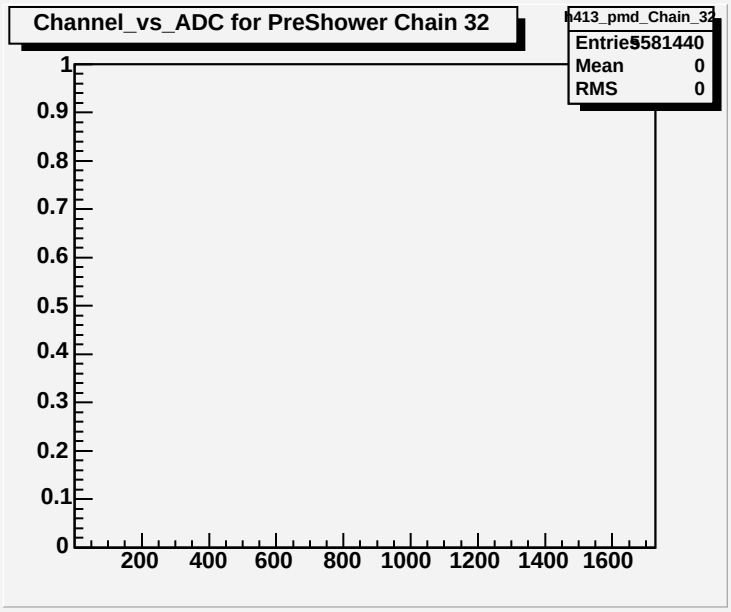

Channel_vs_ADC for PreShower Chain 27
h408_pmd_Chain_27
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

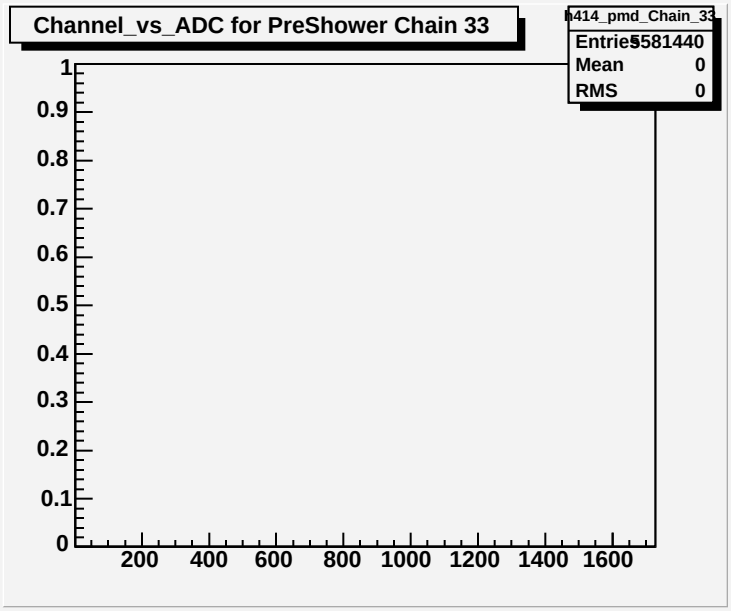

Channel_vs_ADC for PreShower Chain 28
h409_pmd_Chain_28
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

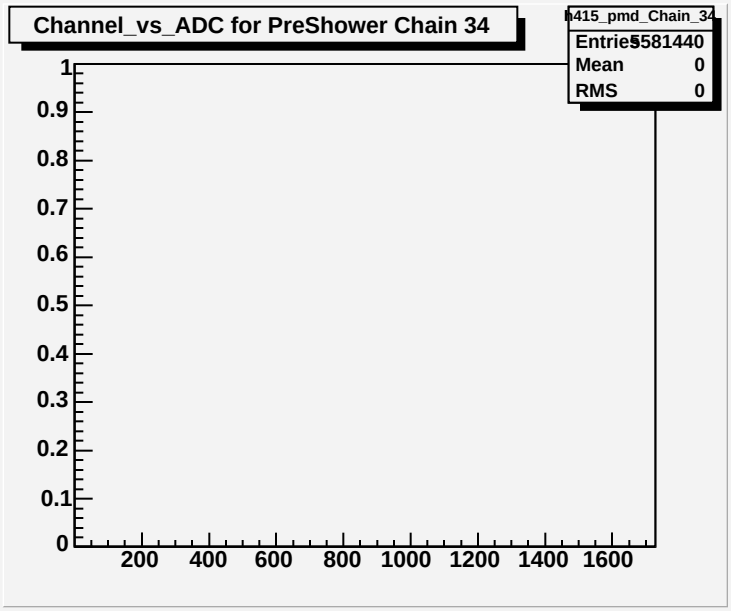

Channel_vs_ADC for PreShower Chain 29
h410_pmd_Chain_29
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

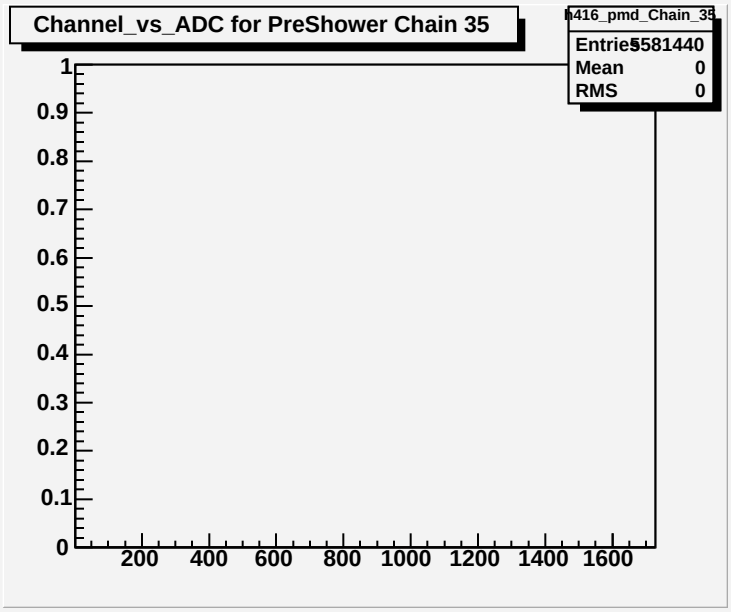

Channel_vs_ADC for PreShower Chain 30
h411_pmd_Chain_30
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

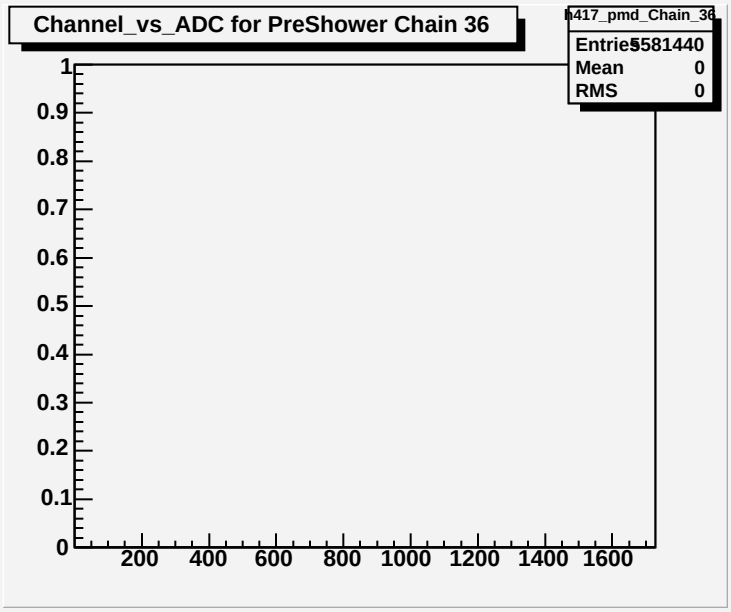

Channel_vs_ADC for PreShower Chain 31
h412_pmd_Chain_31
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

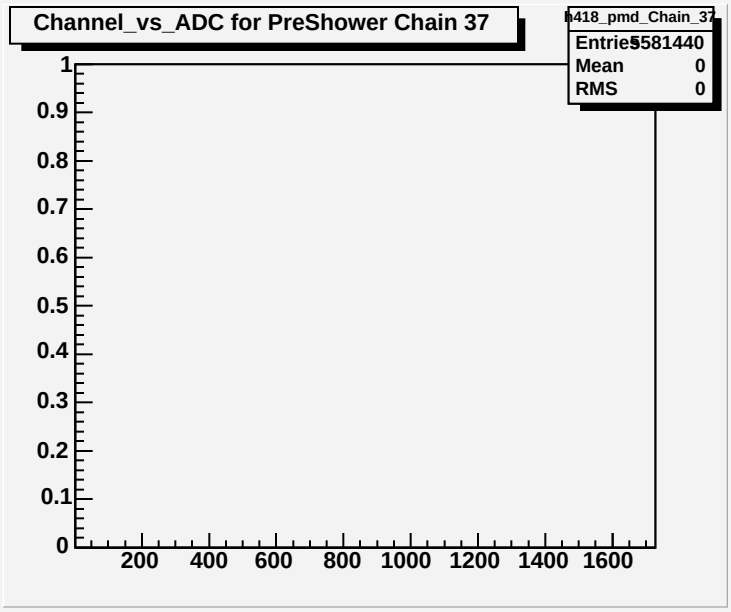

Channel_vs_ADC for PreShower Chain 32
h413_pmd_Chain_32
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

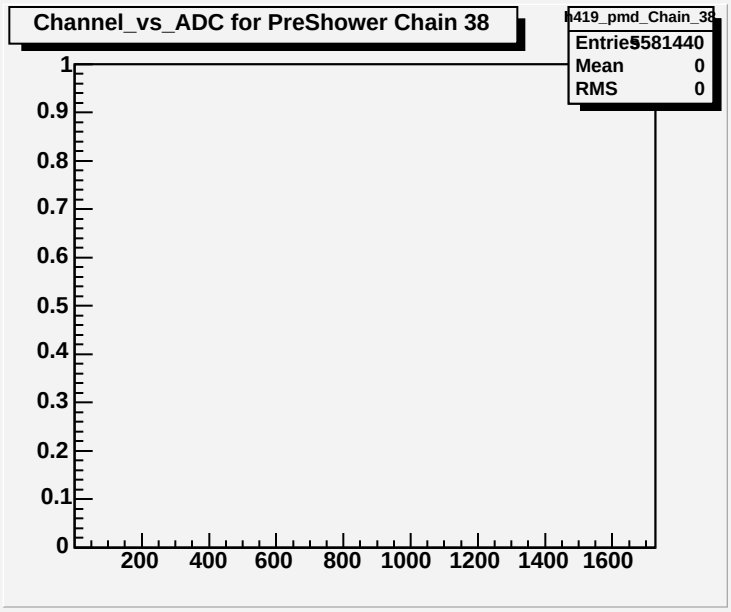

Channel_vs_ADC for PreShower Chain 33
h414_pmd_Chain_33
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

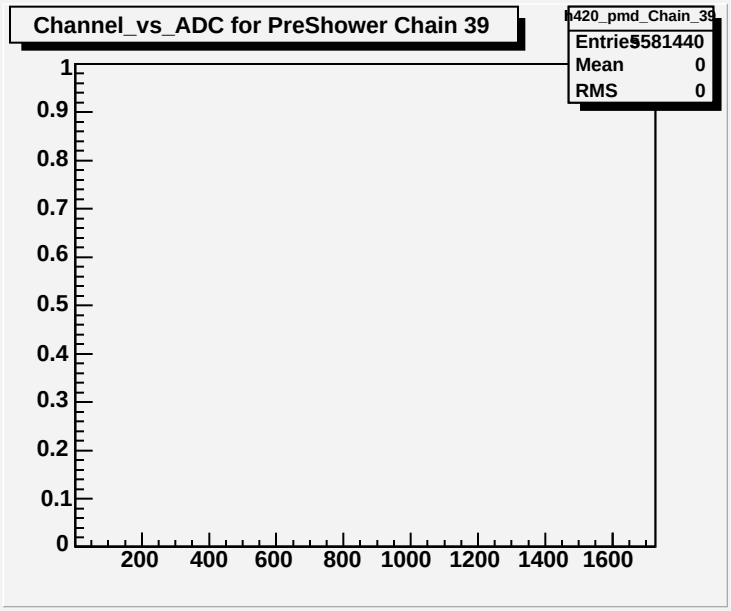

Channel_vs_ADC for PreShower Chain 34
h415_pmd_Chain_34
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

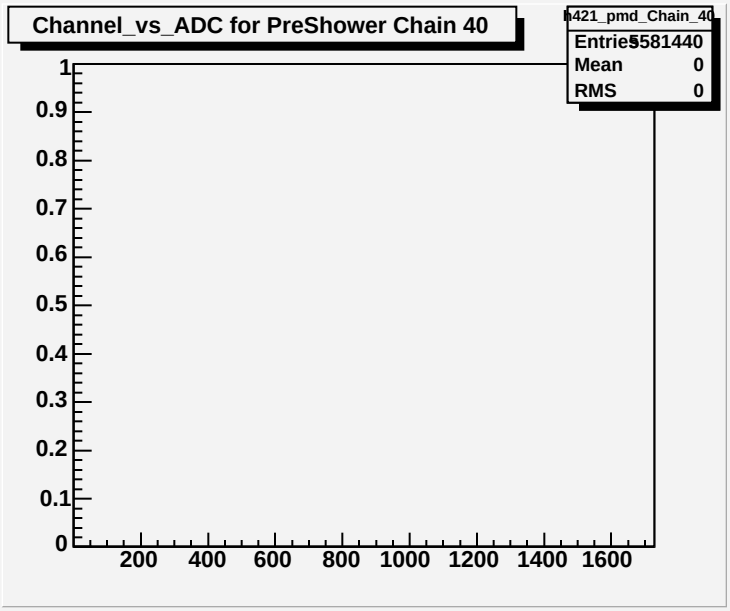

Channel_vs_ADC for PreShower Chain 35
h416_pmd_Chain_35
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

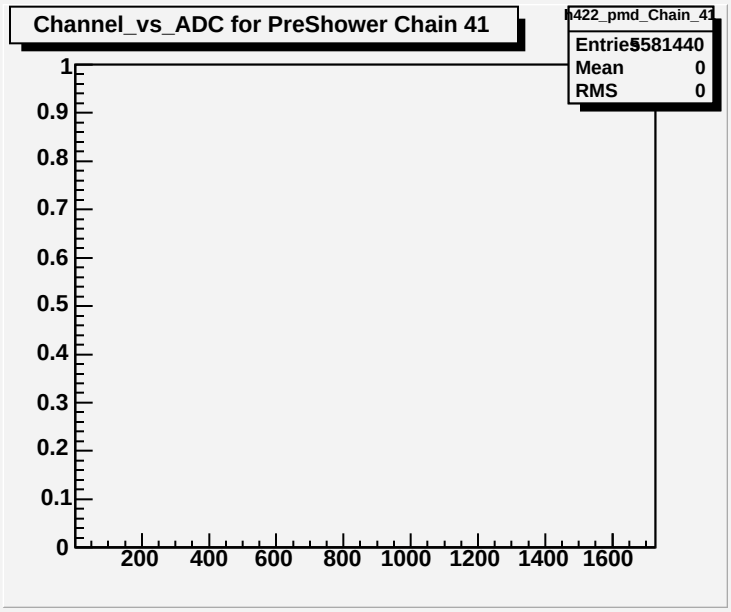

Channel_vs_ADC for PreShower Chain 36
h417_pmd_Chain_36
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

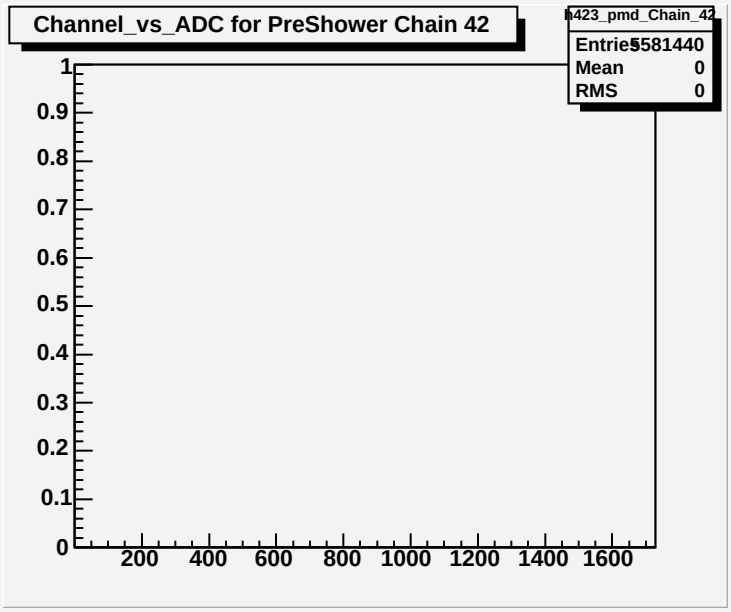

Channel_vs_ADC for PreShower Chain 37
h418_pmd_Chain_37
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

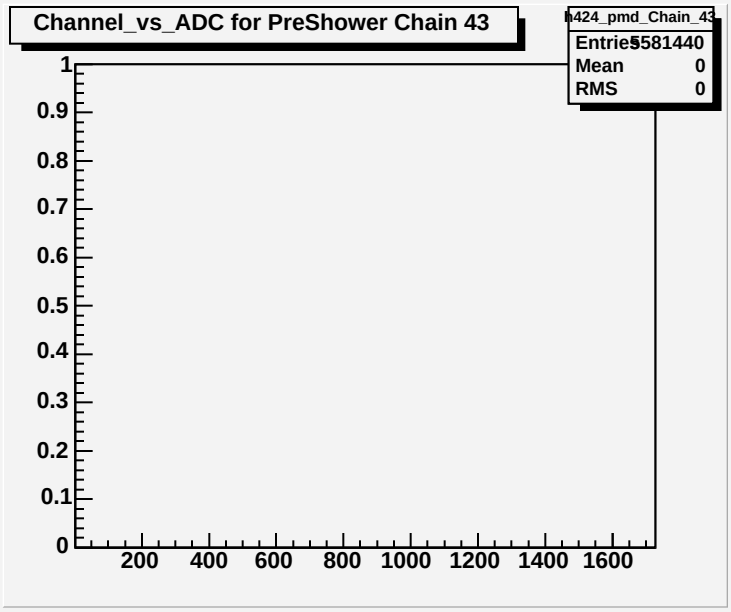

Channel_vs_ADC for PreShower Chain 38
h419_pmd_Chain_38
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

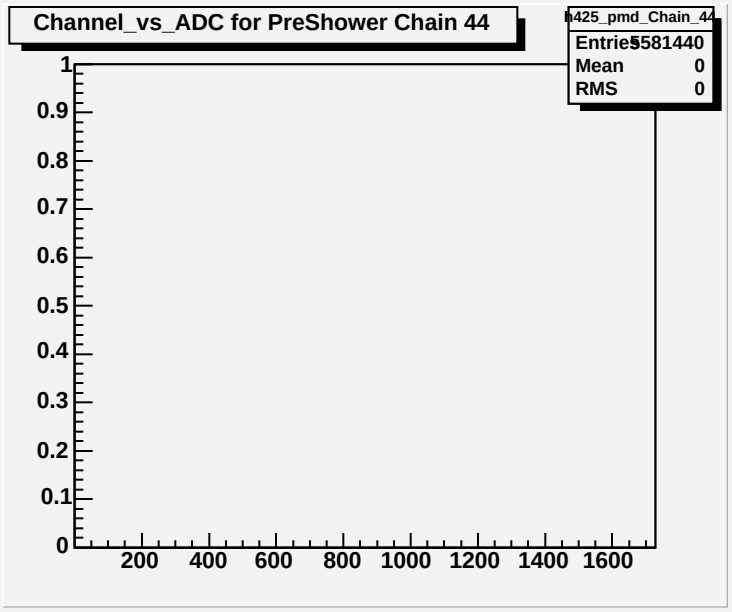

Channel_vs_ADC for PreShower Chain 39
h420_pmd_Chain_39
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

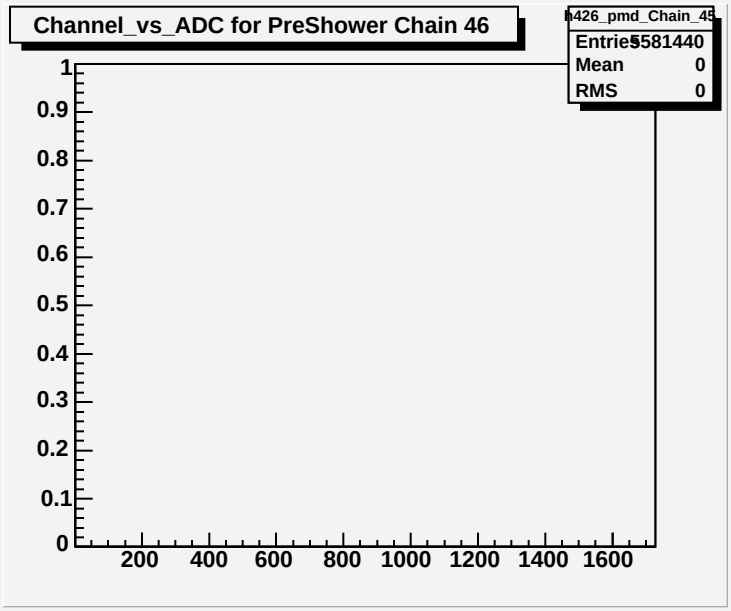

Channel_vs_ADC for PreShower Chain 40
h421_pmd_Chain_40
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

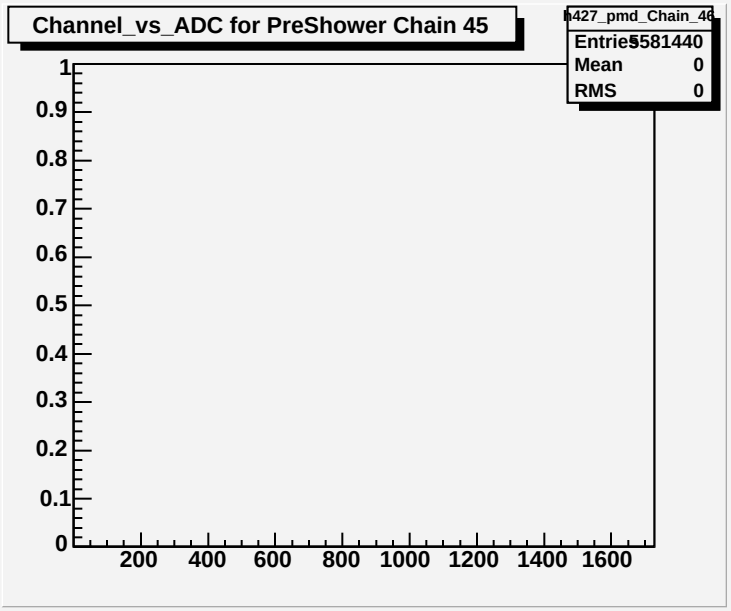

Channel_vs_ADC for PreShower Chain 41
h422_pmd_Chain_41
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

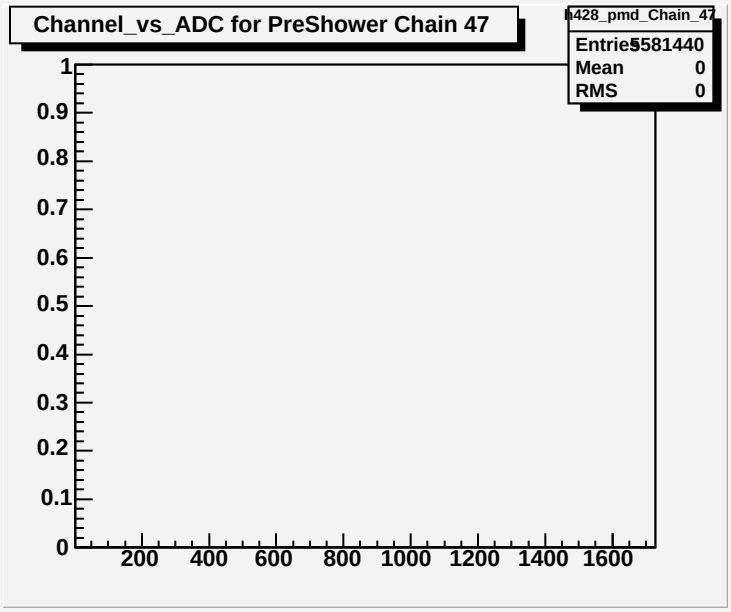

Channel_vs_ADC for PreShower Chain 42
h423_pmd_Chain_42
Entries 5581440
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

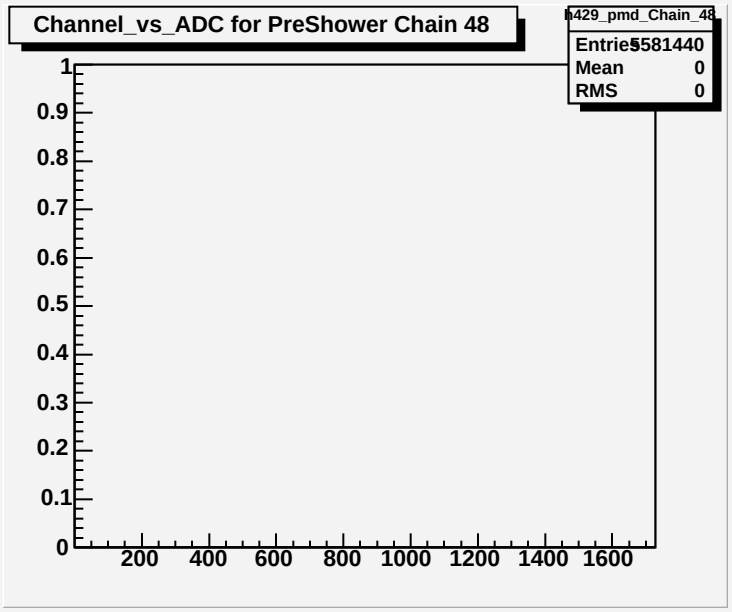

Channel_vs_ADC for PreShower Chain 43
h424_pmd_Chain_43
Entries 5581440
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 44
h425_pmd_Chain_44
Entries 5581440
Mean 0
RMS 0

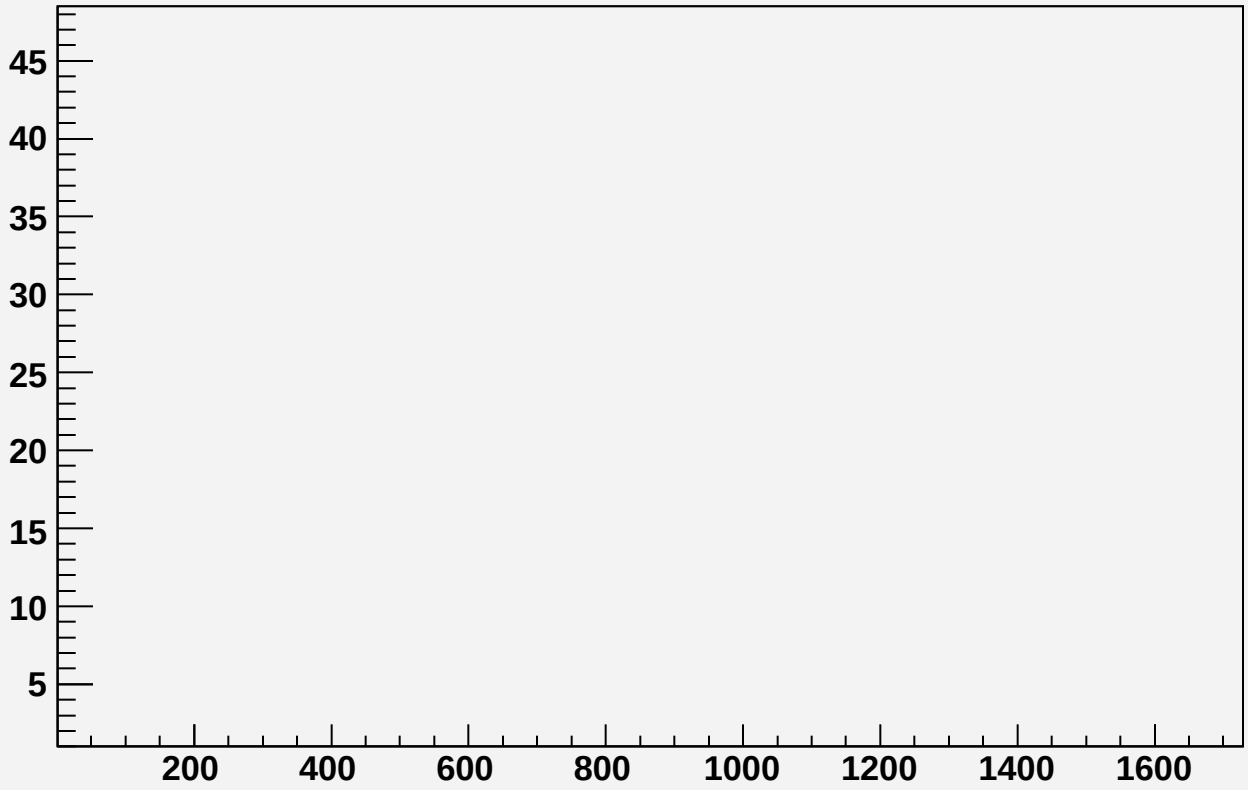

Channel_vs_ADC for PreShower Chain 46
h426_pmd_Chain_45
Entries 5581440
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 45
h427_pmd_Chain_46
Entries 5581440
Mean 0
RMS 0

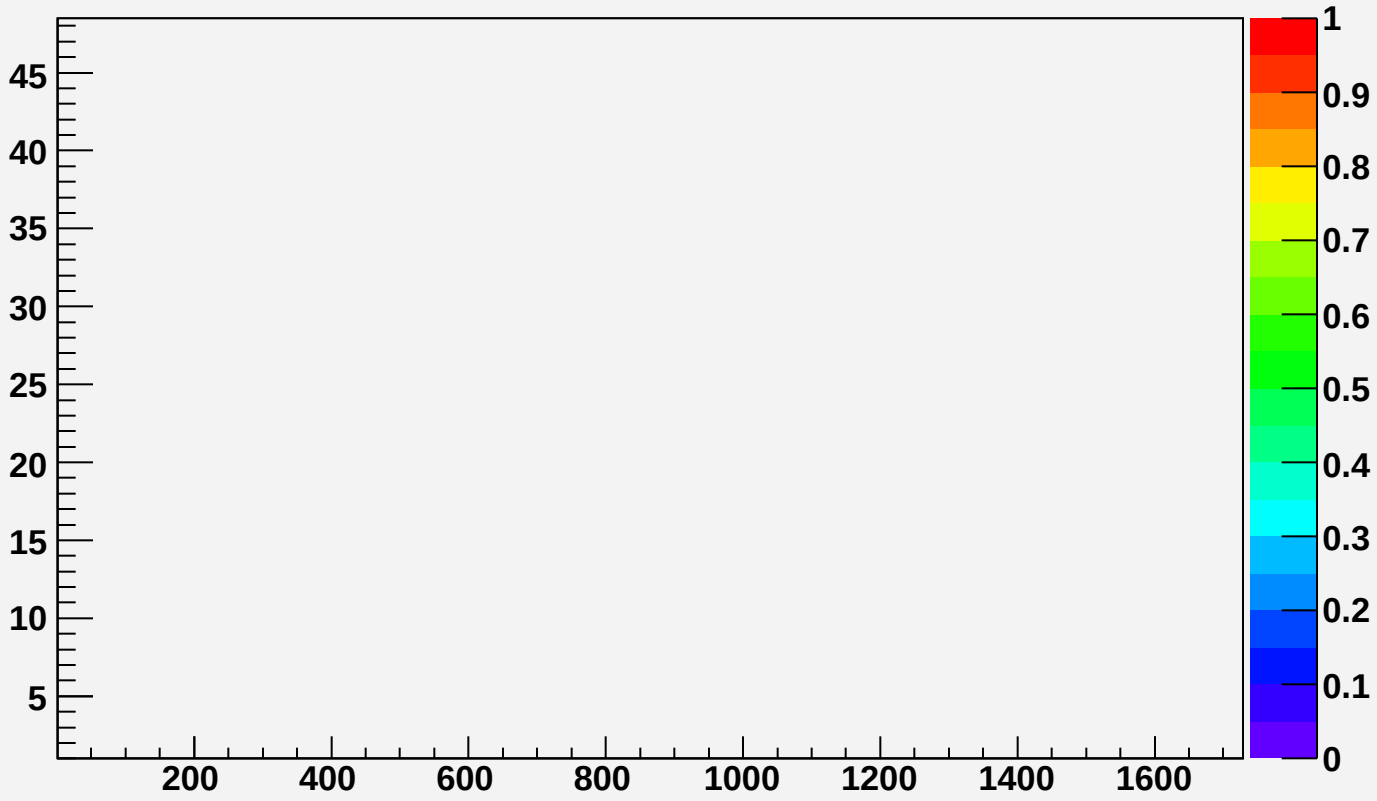

Channel_vs_ADC for PreShower Chain 47
h428_pmd_Chain_47
Entries 5581440
Mean 0
RMS 0

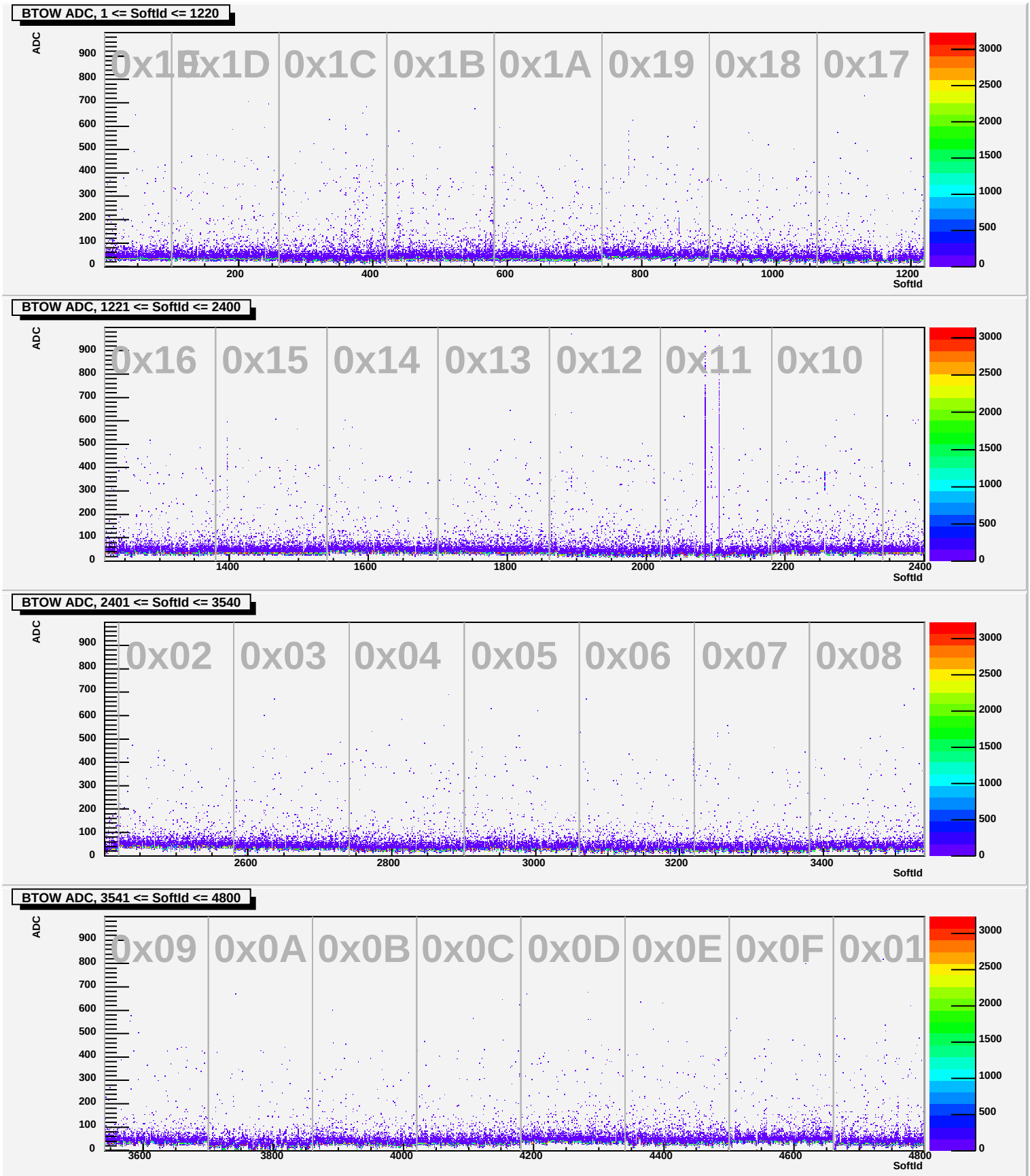

Channel_vs_ADC for PreShower Chain 48
h429_pmd_Chain_48
Entries 5581440
Mean 0
RMS 0

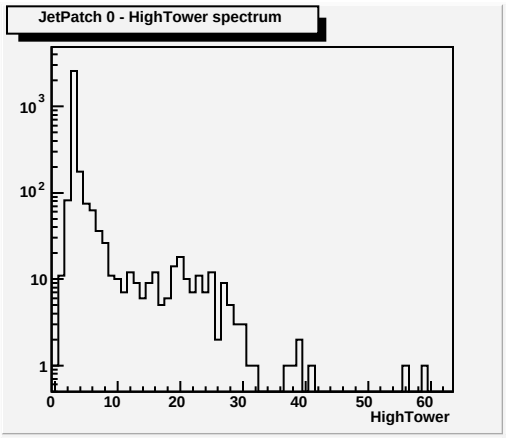
Chain vs Channel 2D

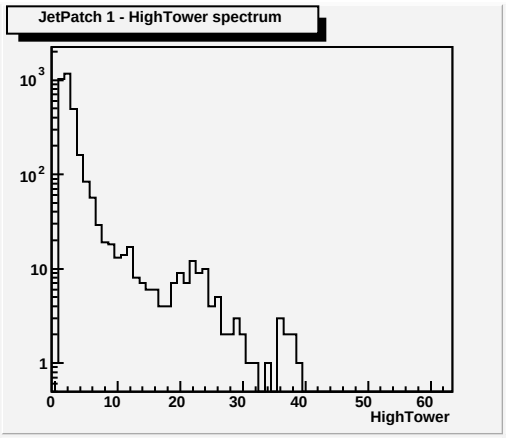


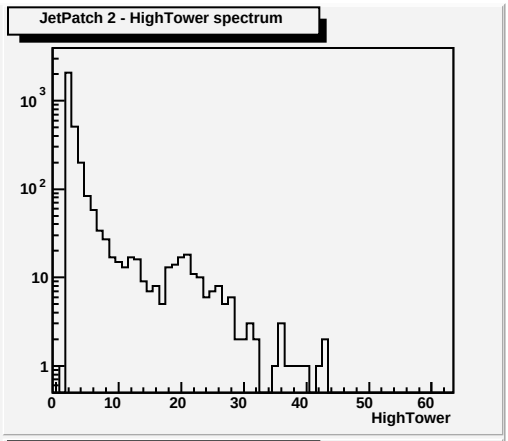
Chain vs Channel 2D (ADC weighted)

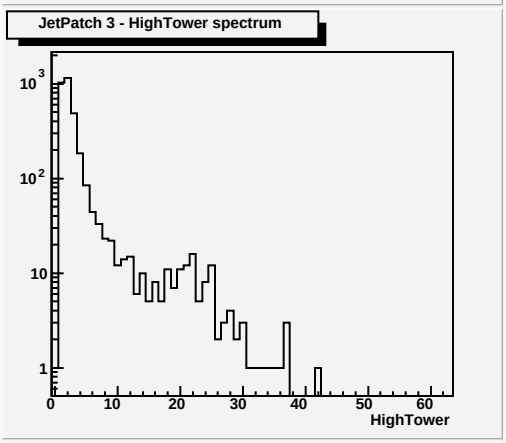


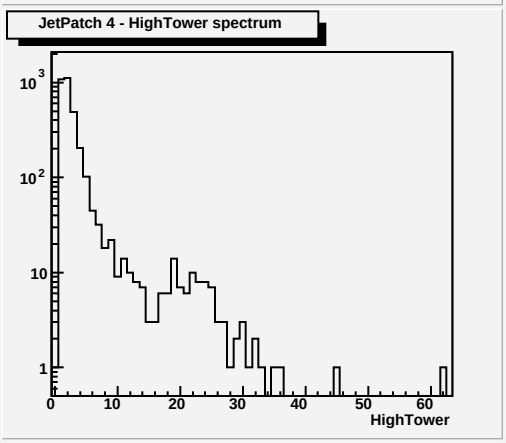

BTOW ADC, 1 <= SoftId <= 1220
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
ADC
SoftId
BTOW ADC, 1221 <= SoftId <= 2400
0x16 0x15 0x14 0x13 0x12 0x11 0x10
ADC
SoftId
BTOW ADC, 2401 <= SoftId <= 3540
0x02 0x03 0x04 0x05 0x06 0x07 0x08
ADC
SoftId
BTOW ADC, 3541 <= SoftId <= 4800
0x09 0x0A 0x0B 0x0C 0x0D 0x0E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

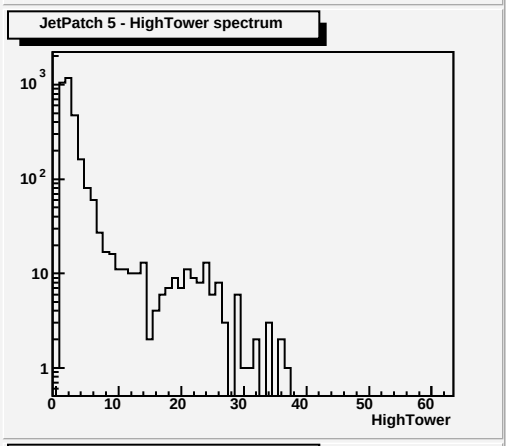

JetPatch 0 - HighTower spectrum
HighTower

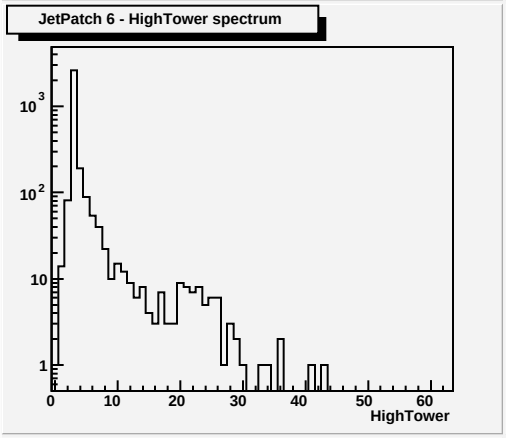

JetPatch 1 - HighTower spectrum
HighTower

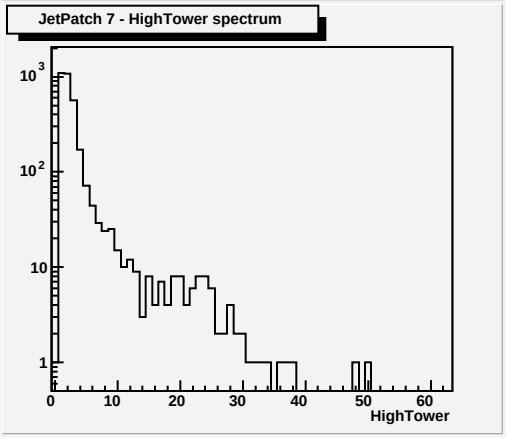

JetPatch 2 - HighTower spectrum
HighTower

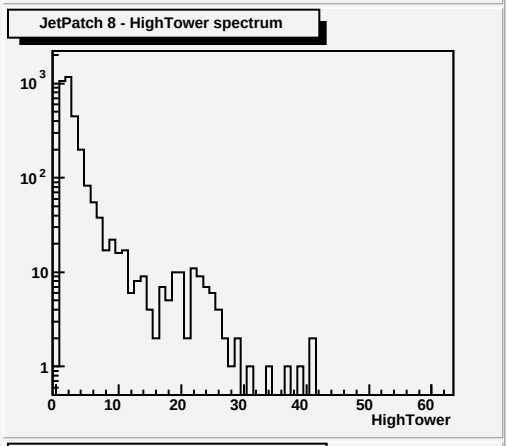

JetPatch 3 - HighTower spectrum
HighTower

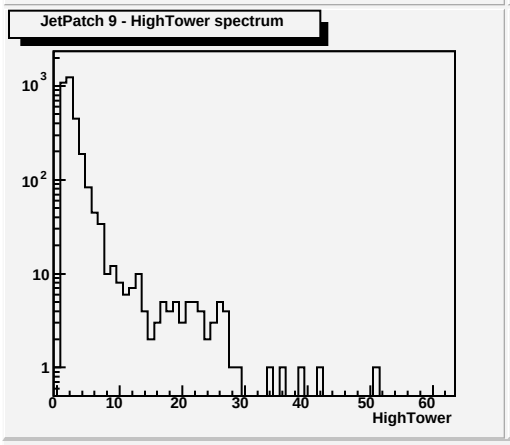

JetPatch 4 - HighTower spectrum
HighTower

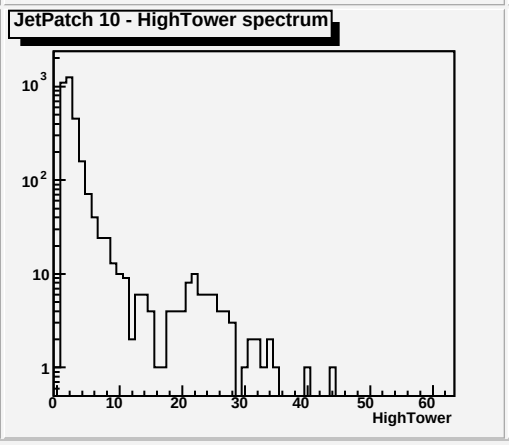

JetPatch 5 - HighTower spectrum
HighTower

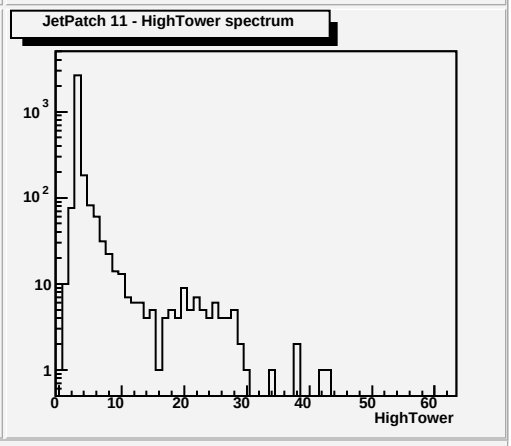

JetPatch 6 - HighTower spectrum
HighTower

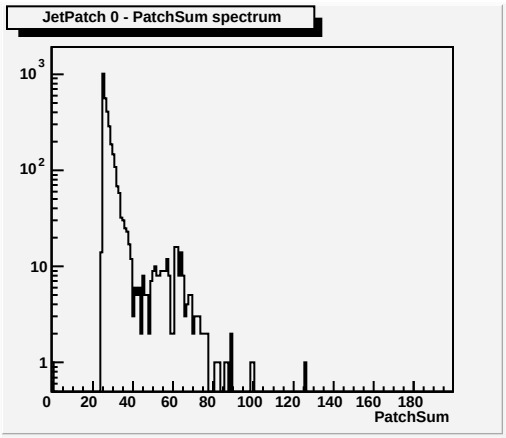

JetPatch 7 - HighTower spectrum
HighTower

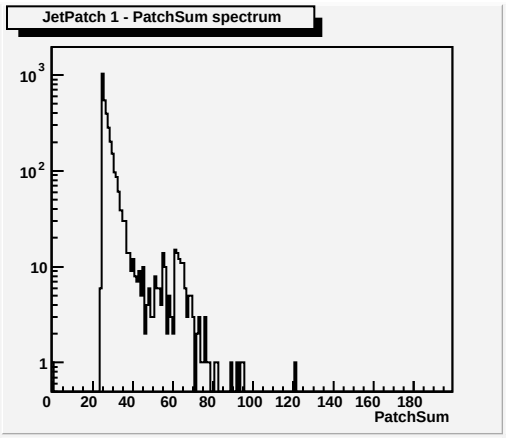

JetPatch 8 - HighTower spectrum
HighTower

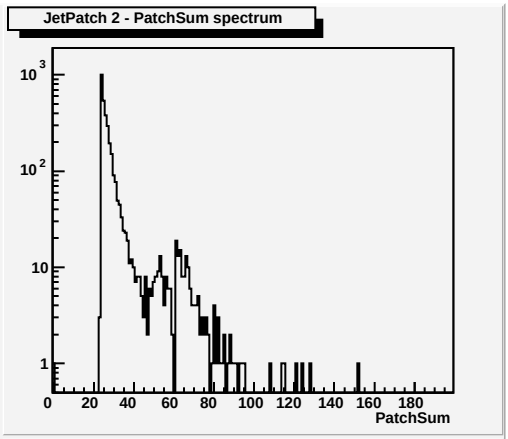

JetPatch 9 - HighTower spectrum
HighTower

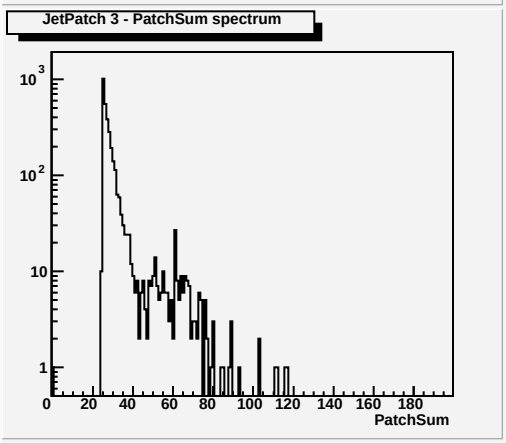

JetPatch 10 - HighTower spectrum
HighTower

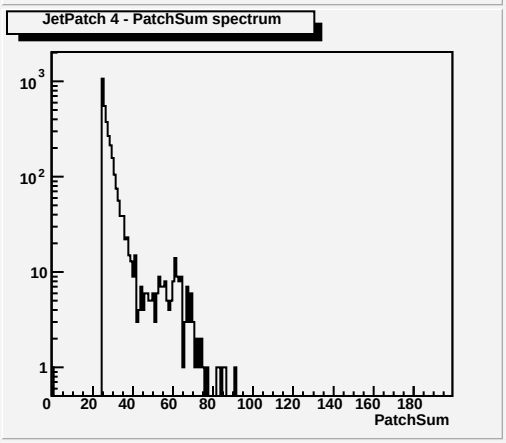

JetPatch 11 - HighTower spectrum
HighTower

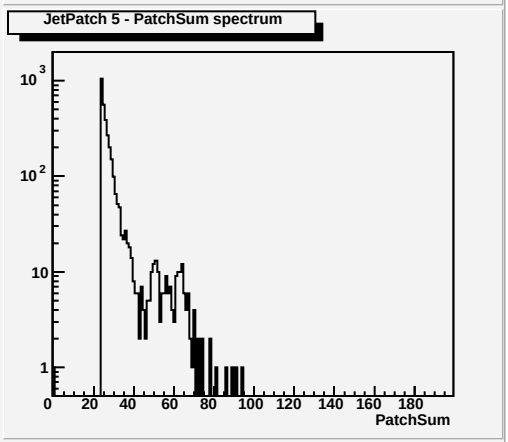

JetPatch 0 - PatchSum spectrum
PatchSum

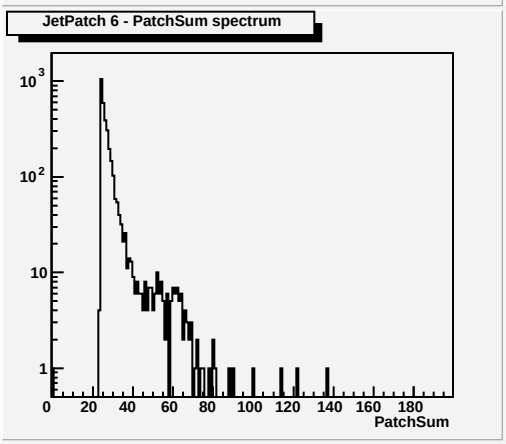

JetPatch 1 - PatchSum spectrum
PatchSum

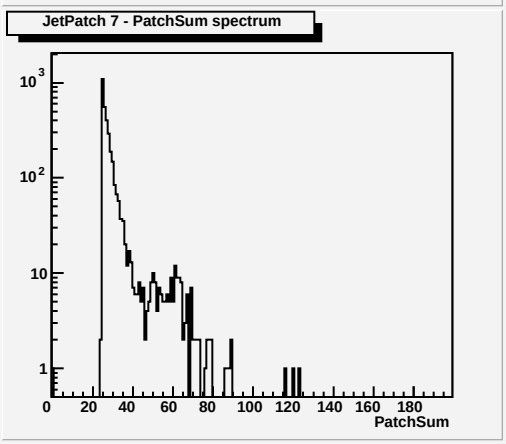

JetPatch 2 - PatchSum spectrum
PatchSum

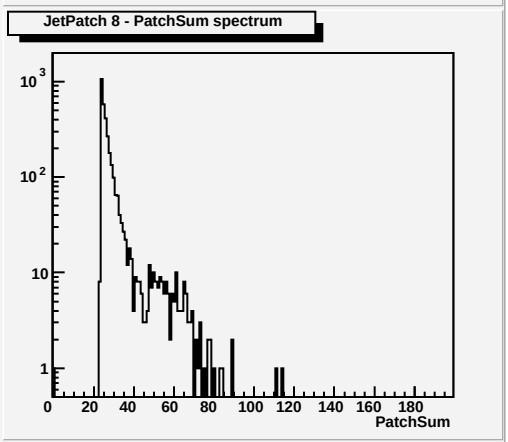

JetPatch 3 - PatchSum spectrum
PatchSum

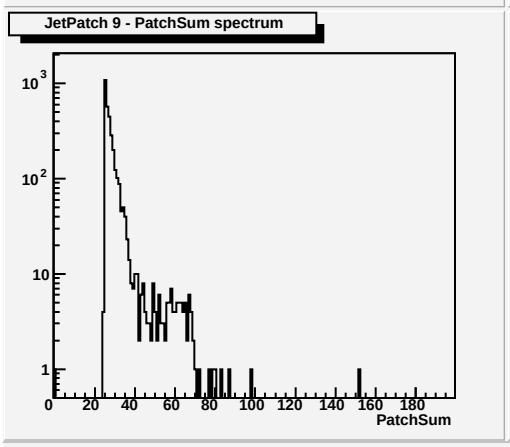

JetPatch 4 - PatchSum spectrum
PatchSum

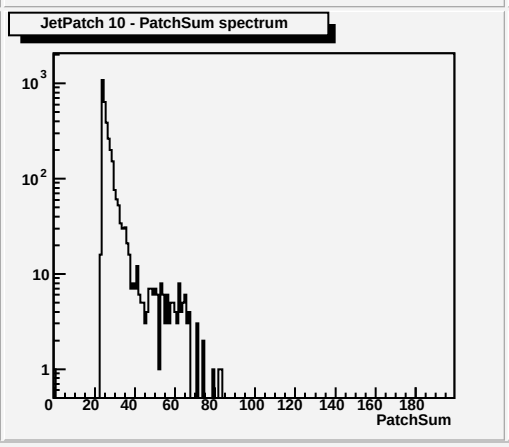

JetPatch 5 - PatchSum spectrum
PatchSum

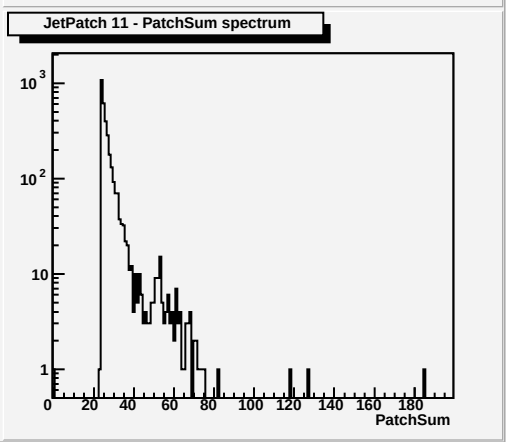

JetPatch 6 - PatchSum spectrum
PatchSum


JetPatch 7 - PatchSum spectrum
PatchSum

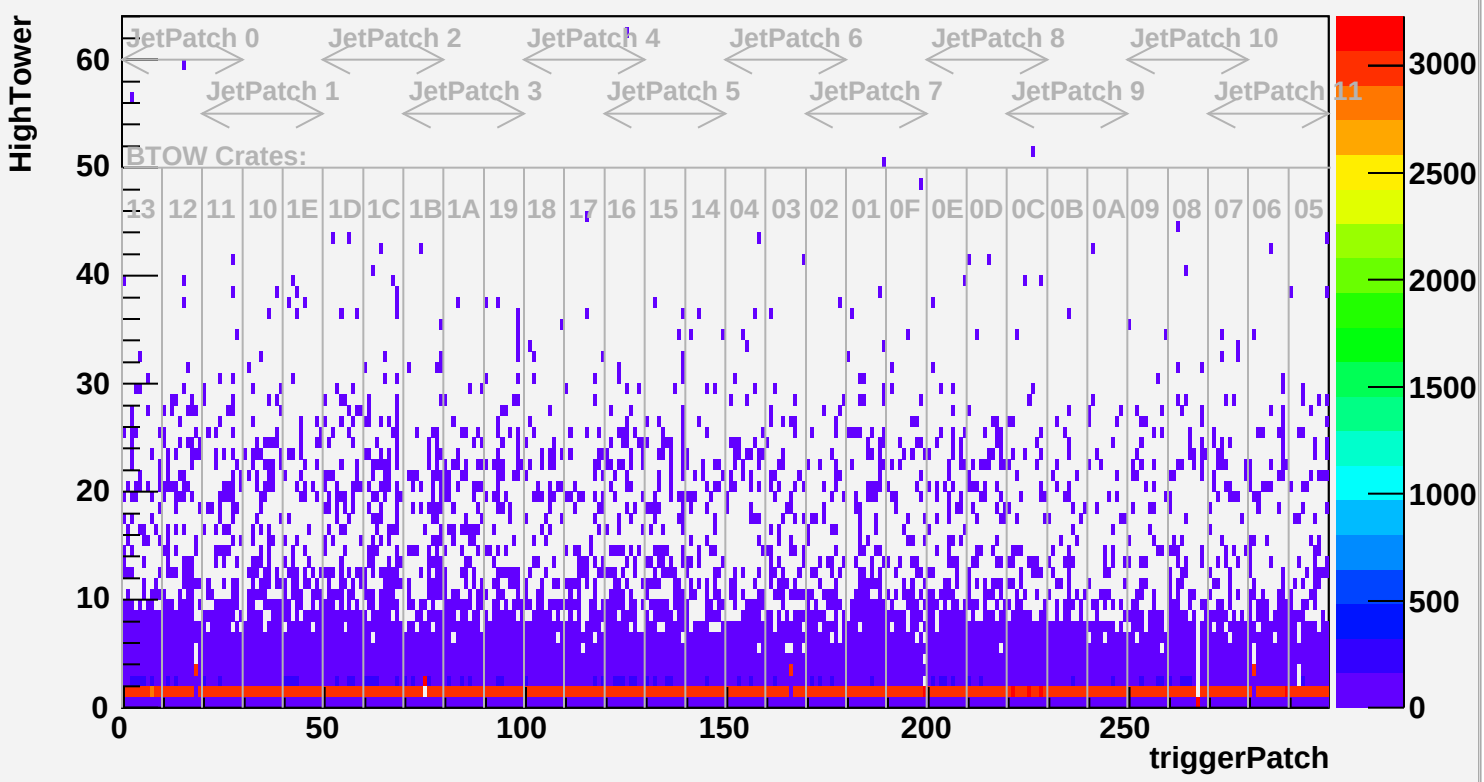

JetPatch 8 - PatchSum spectrum
PatchSum


JetPatch 9 - PatchSum spectrum
PatchSum

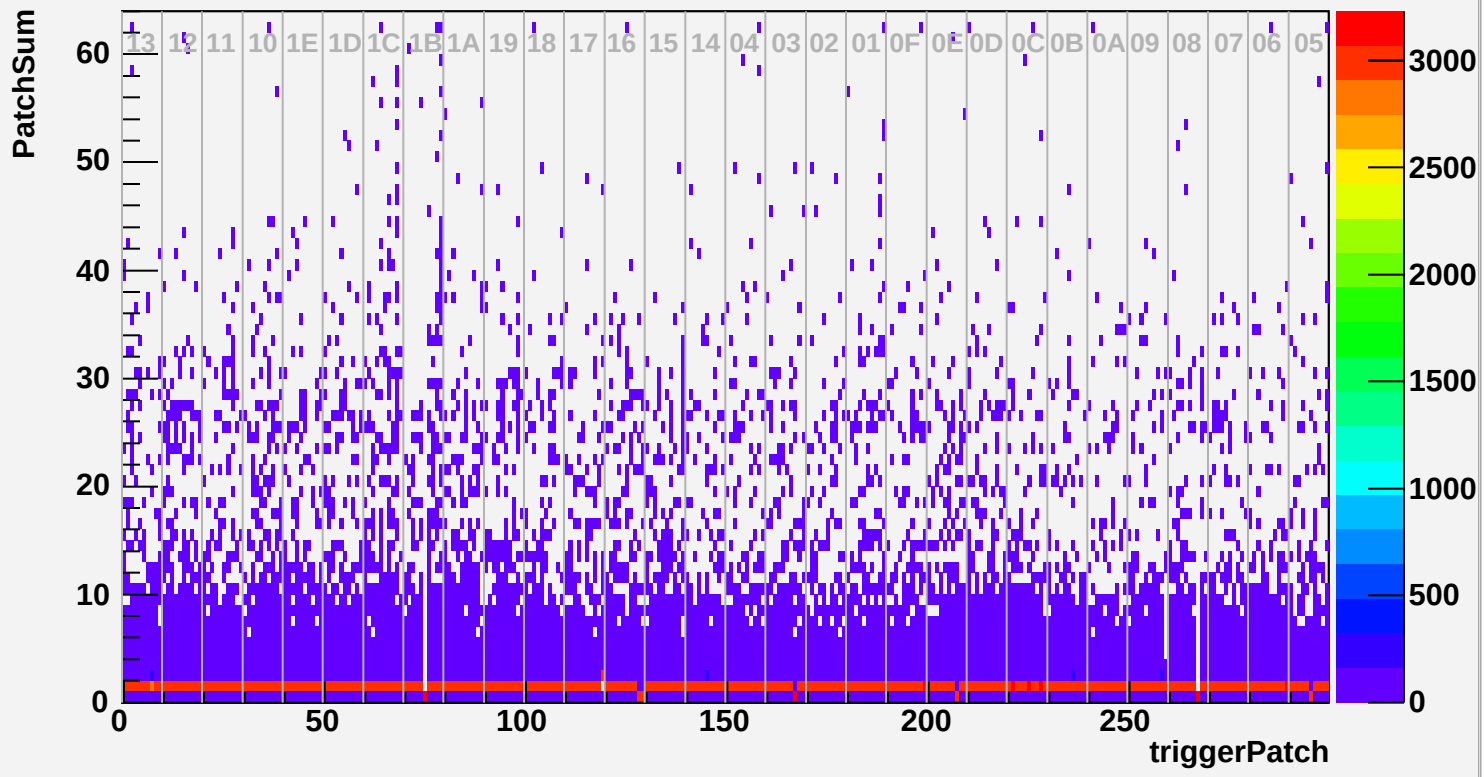

JetPatch 10 - PatchSum spectrum
PatchSum

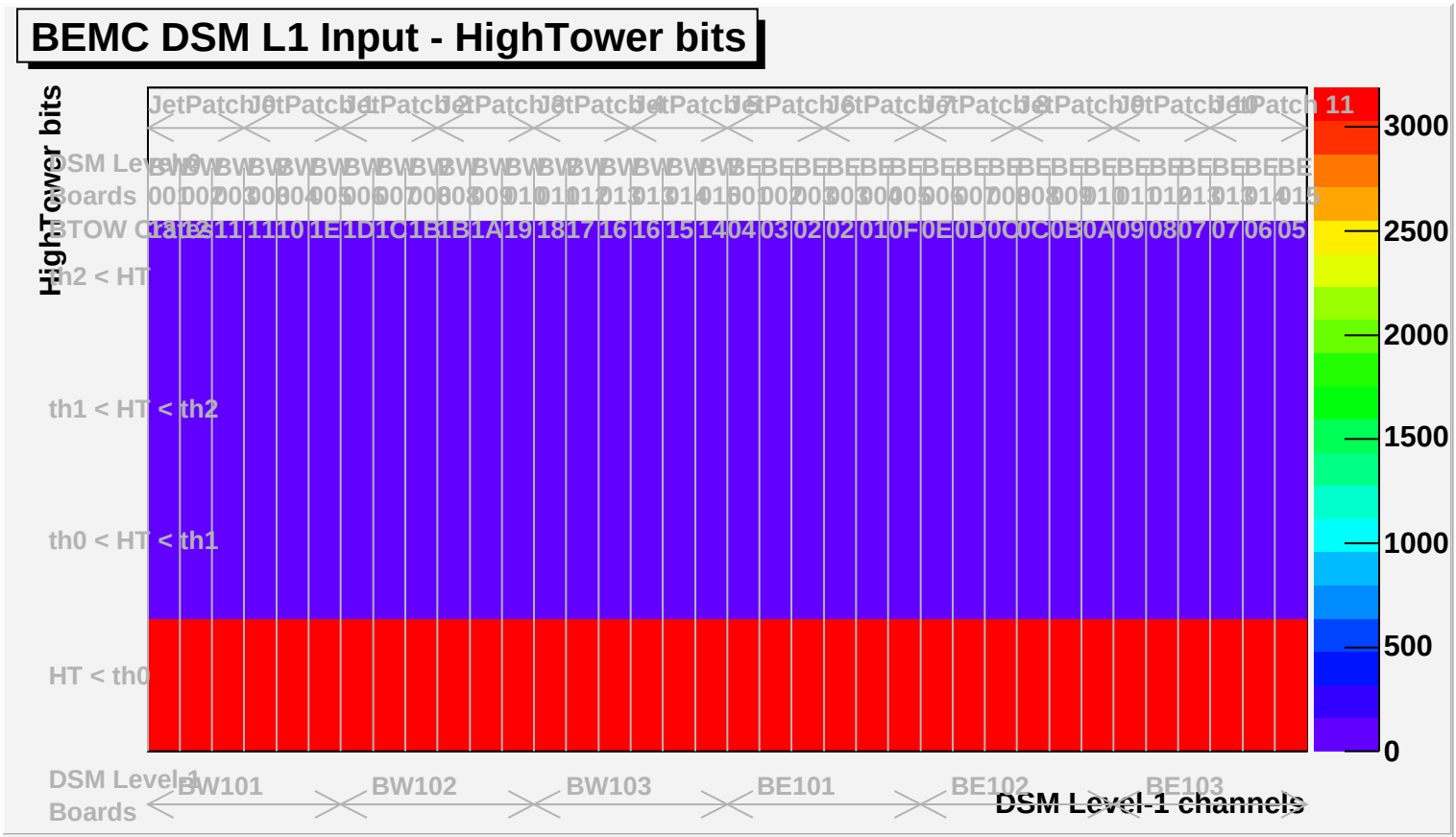

JetPatch 11 - PatchSum spectrum
PatchSum

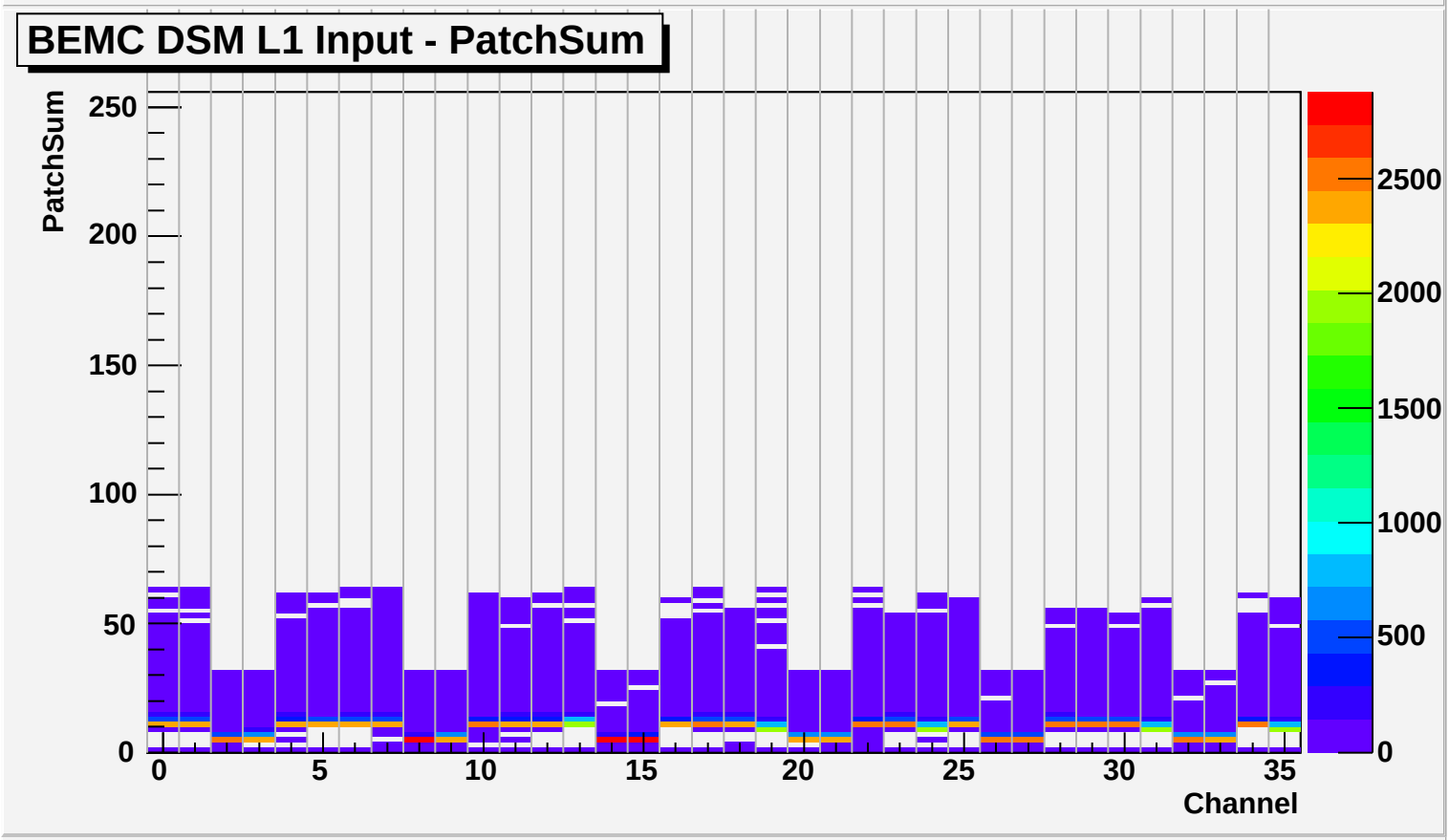
BEMC DSM L0 Input - HighTower

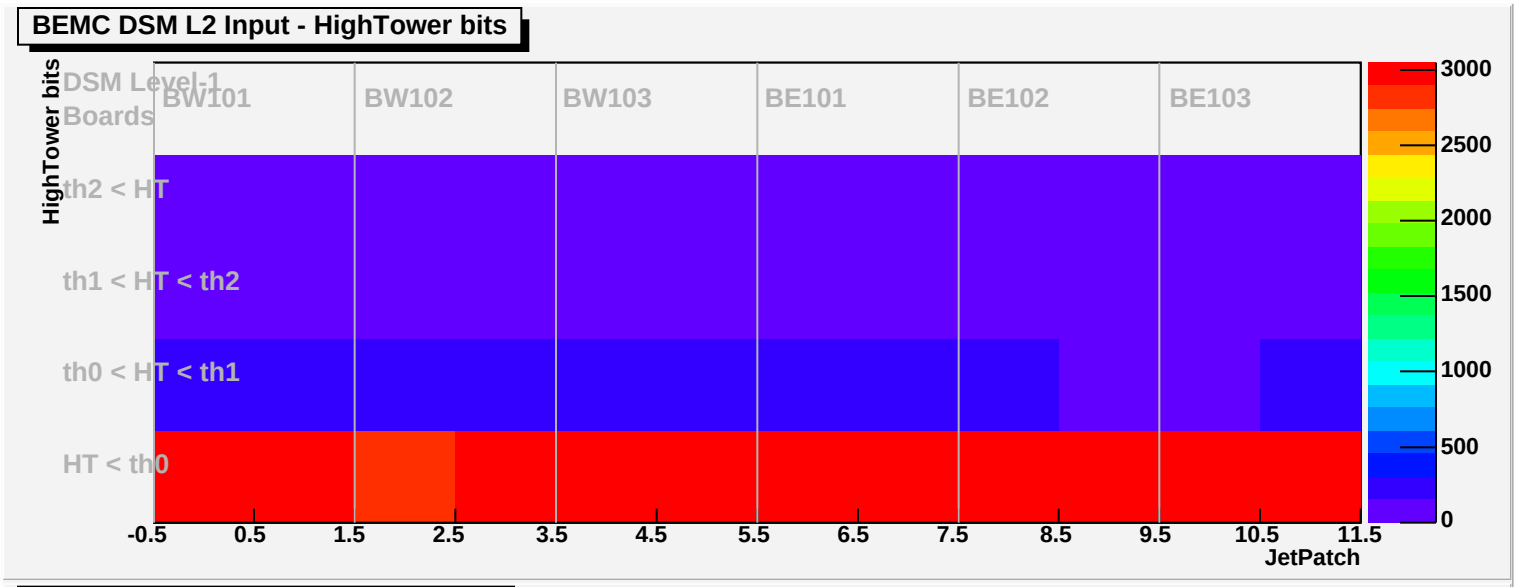


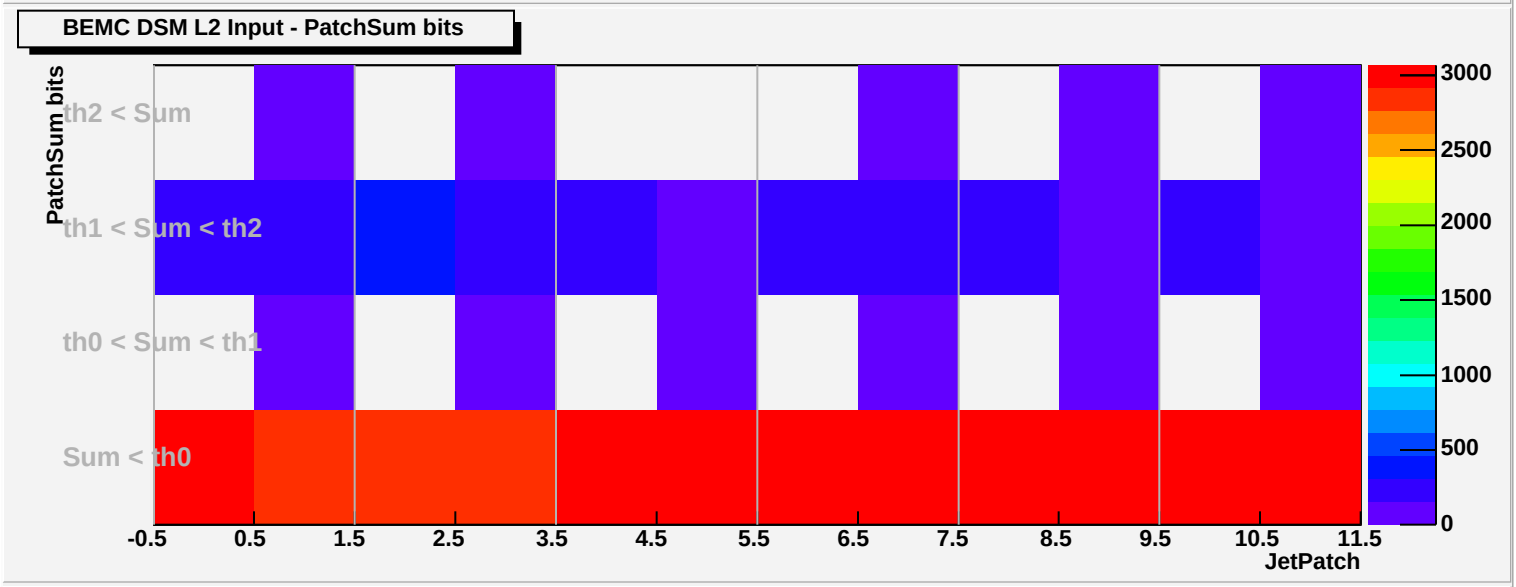
BEMC DSM L0 Input - PatchSum

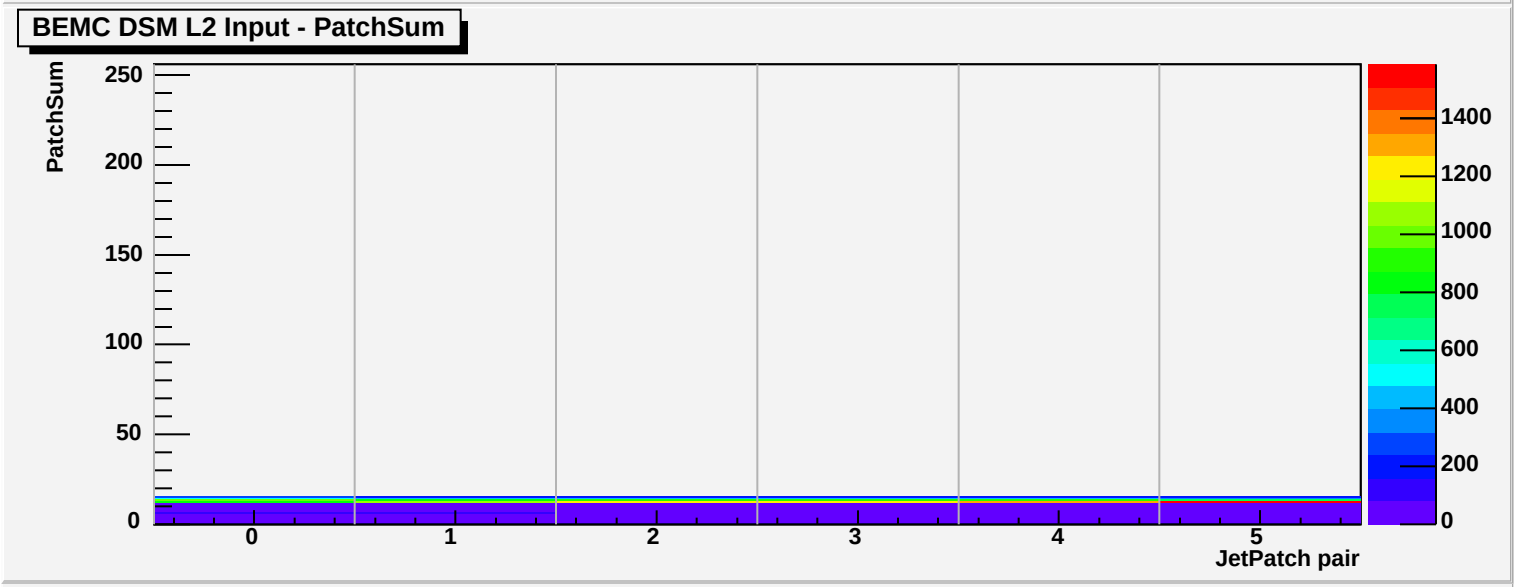


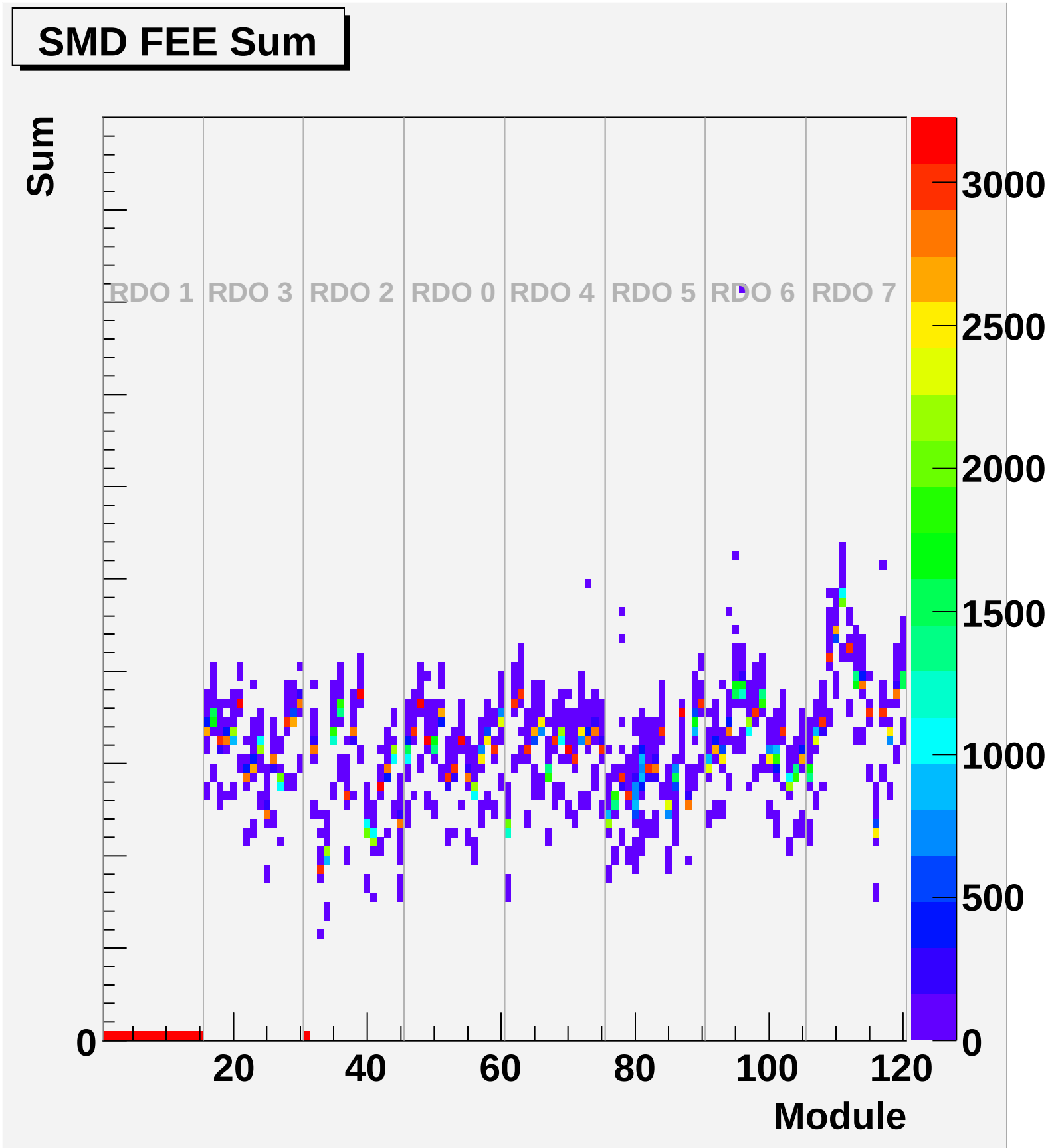

BEMC DSM L1 Input - HighTower bits
HighTower bits
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103
DSM Level-1 channels
3000
2500
2000
1500
1000
500
0

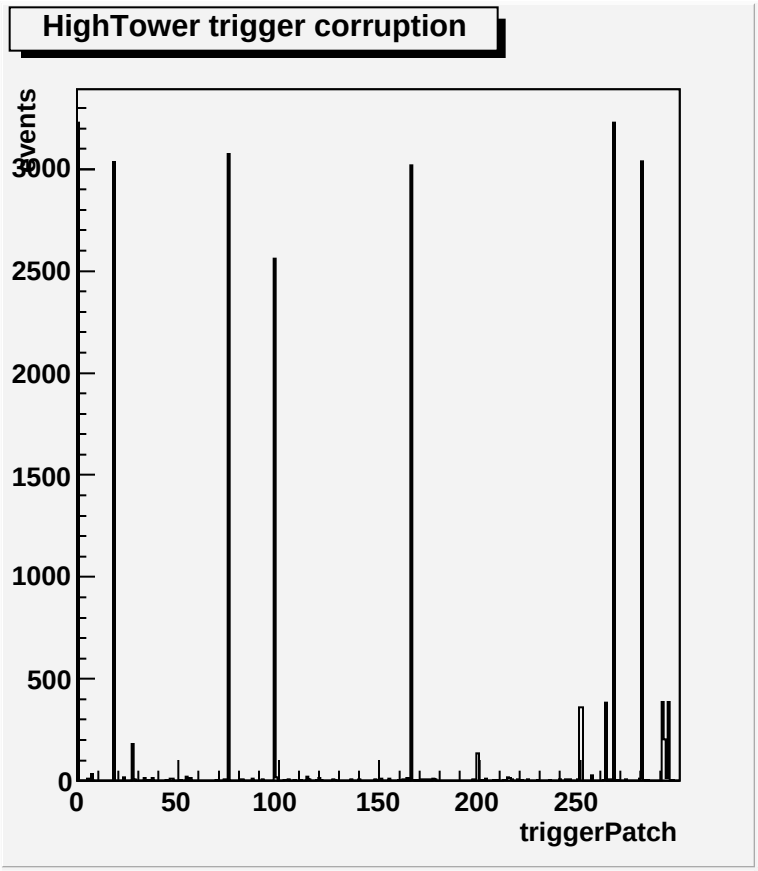

BEMC DSM L1 Input - PatchSum
PatchSum
250
200
150
100
50
0
0
5
10
15
20
25
30
35
Channel
2500
2000
1500
1000
500
0

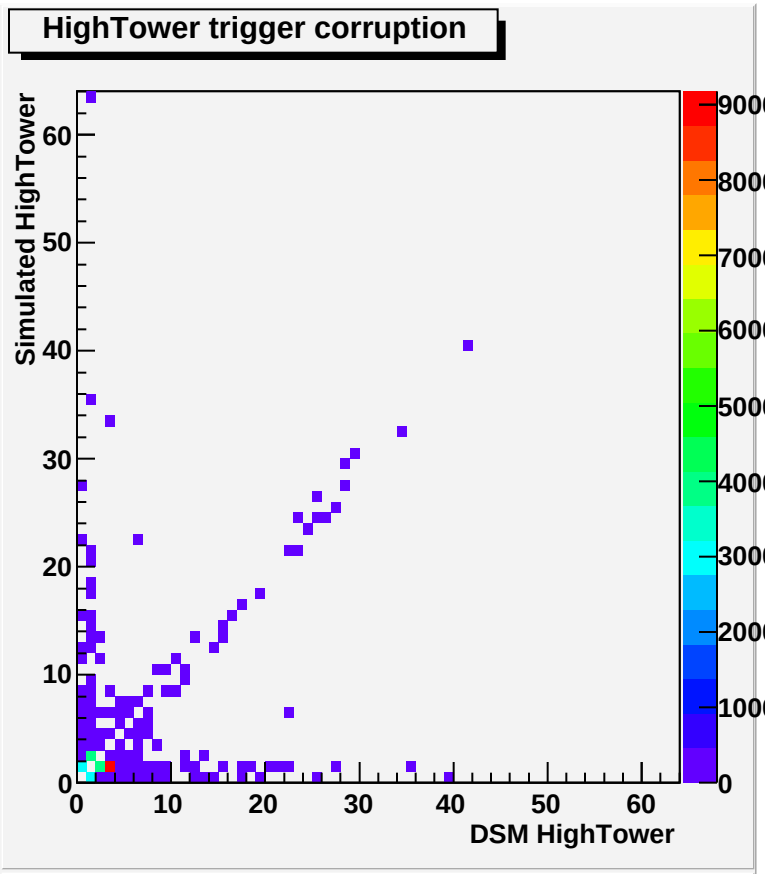

BEMC DSM L2 Input - HighTower bits
HighTower bits
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
-0.5
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
JetPatch
3000
2500
2000
1500
1000
500
0

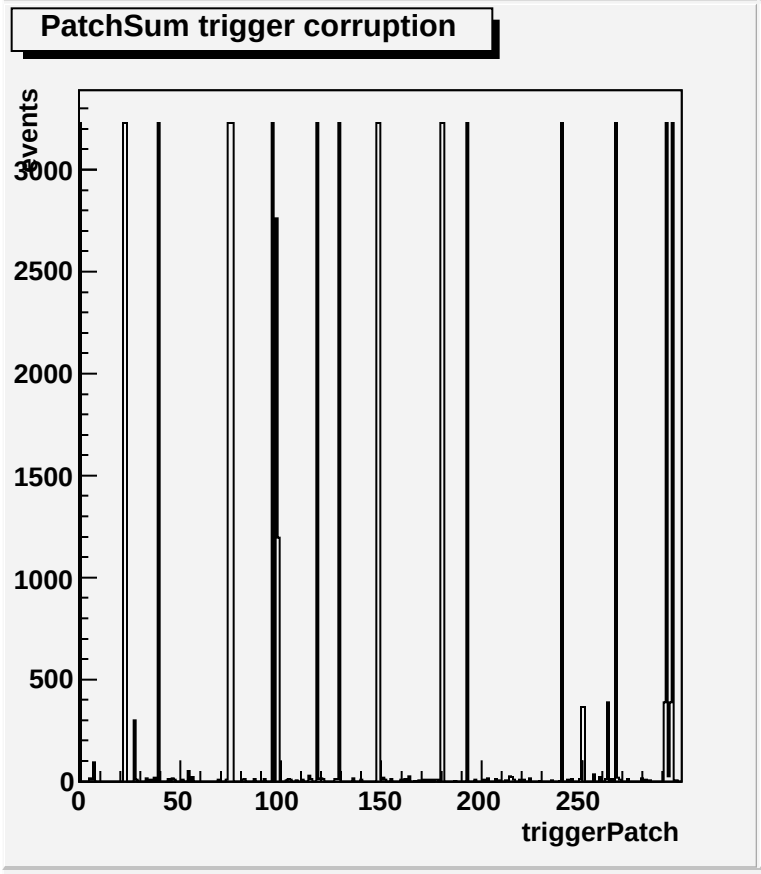

BEMC DSM L2 Input - PatchSum bits
PatchSum bits
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
-0.5
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
JetPatch
3000
2500
2000
1500
1000
500
0

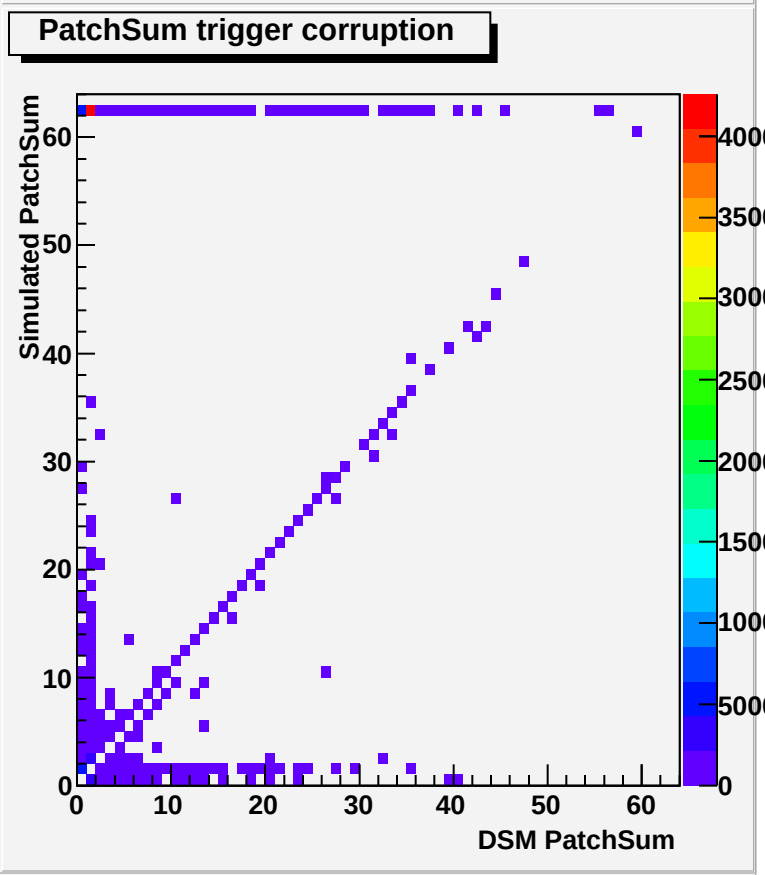

BEMC DSM L2 Input - PatchSum
PatchSum
250
200
150
100
50
0
0
1
2
3
4
5
JetPatch pair
1400
1200
1000
800
600
400
200
0

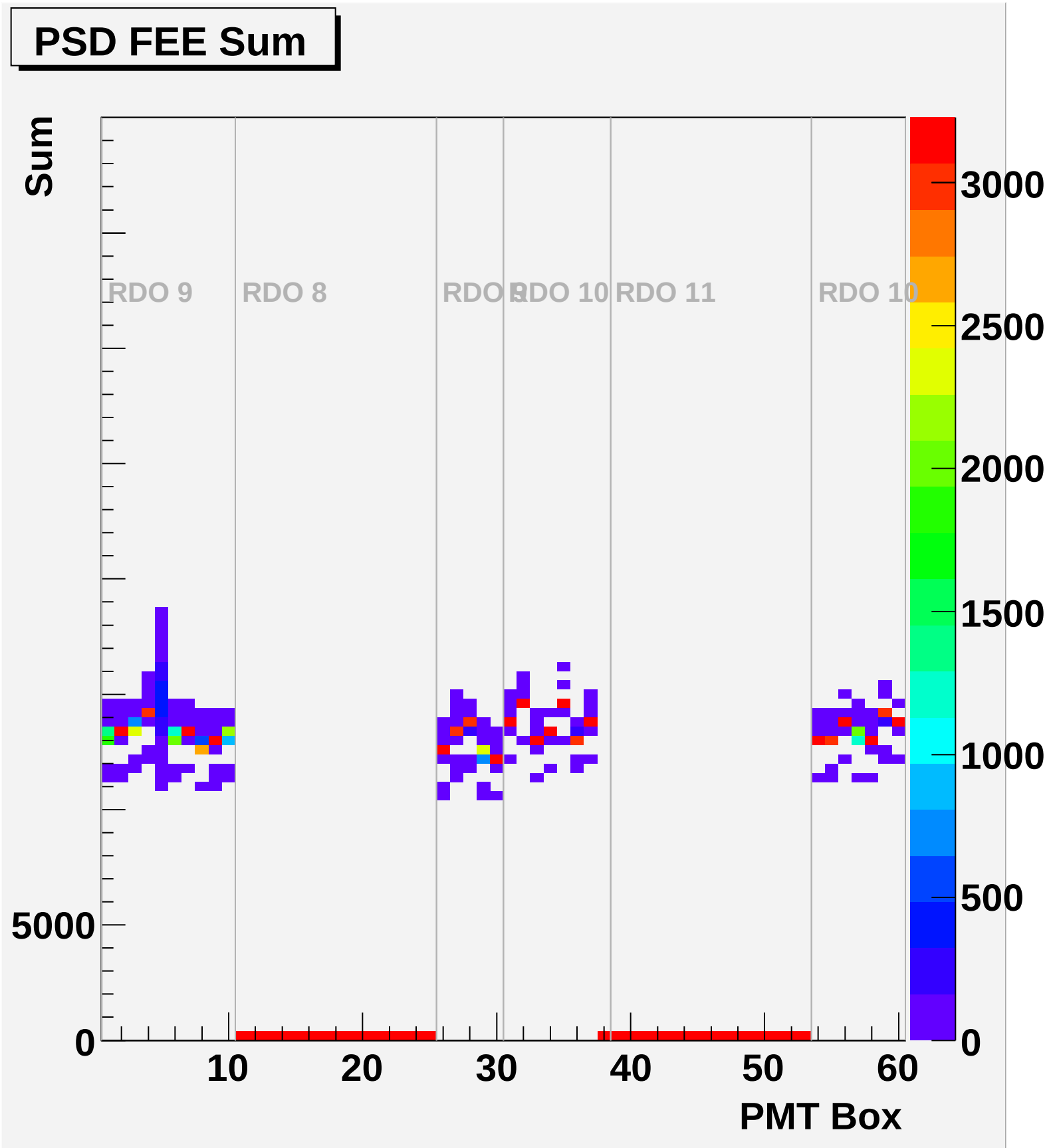

SMD FEE Sum
Sum
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 6
RDO 7
0
20
40
60
80
100
120
Module
3000
2500
2000
1500
1000
500
0


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
3000
2500
2000
1500
1000
500
0