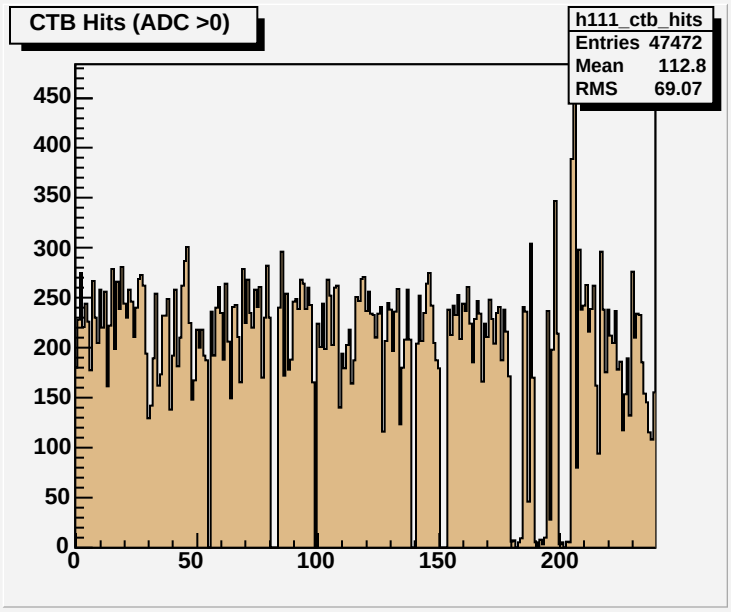
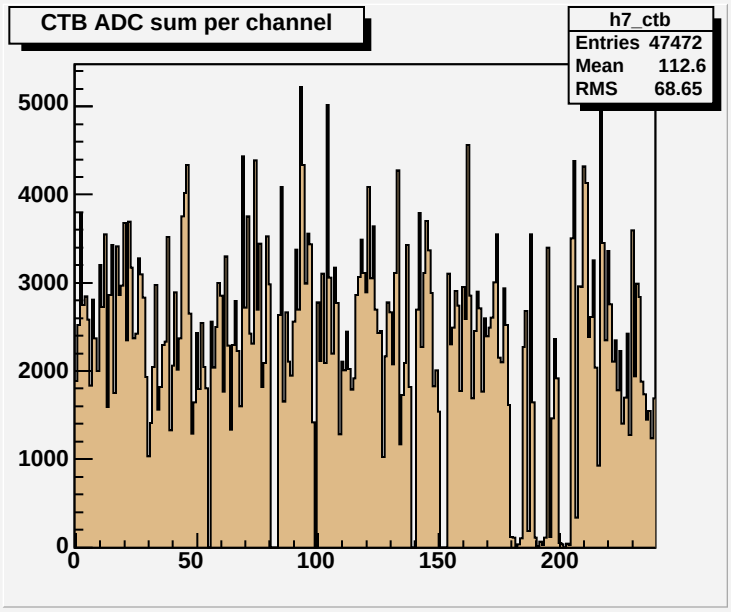
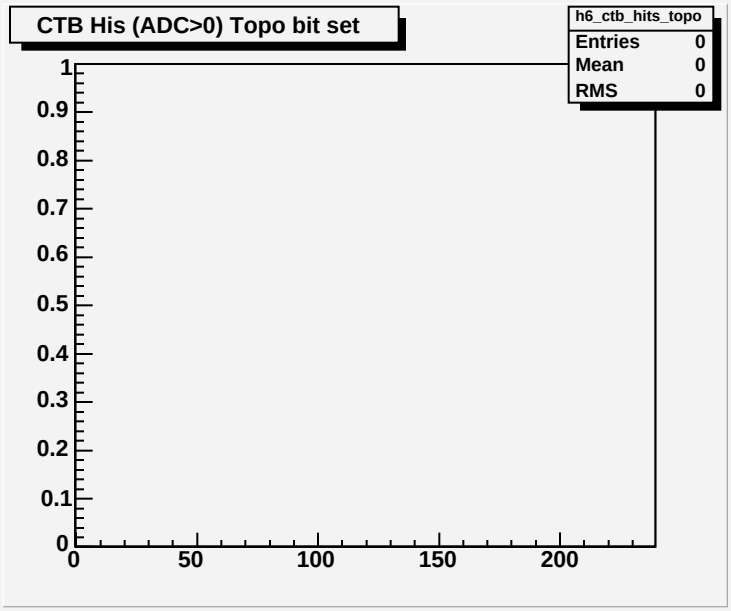
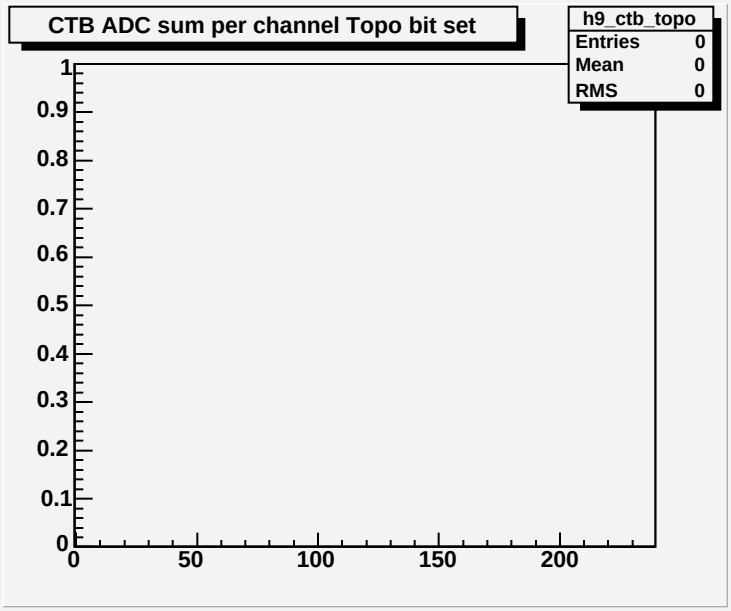
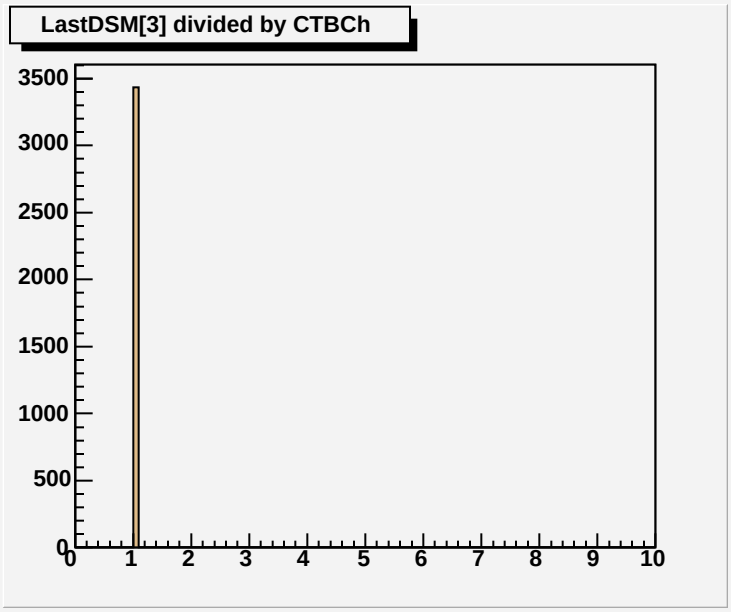
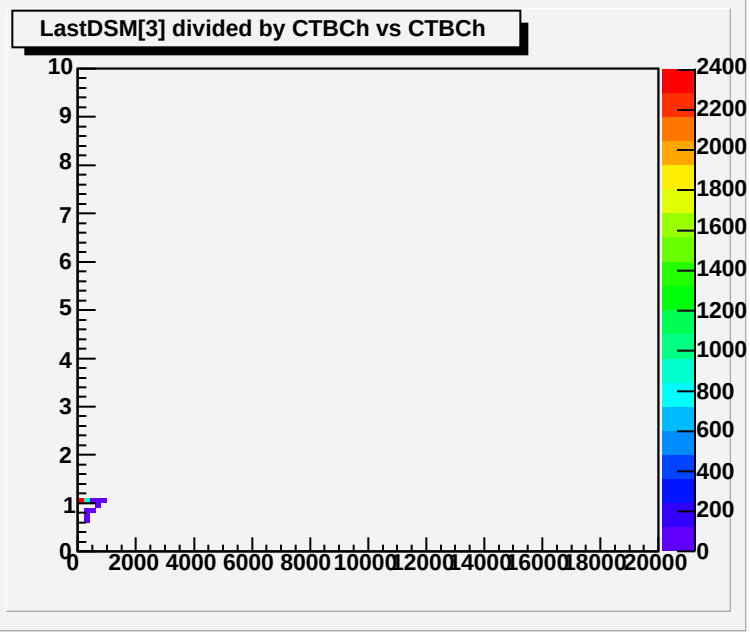

CTB Hits (ADC >0)
h111_ctb_hits
Entries 47472
Mean 112.8
RMS 69.07

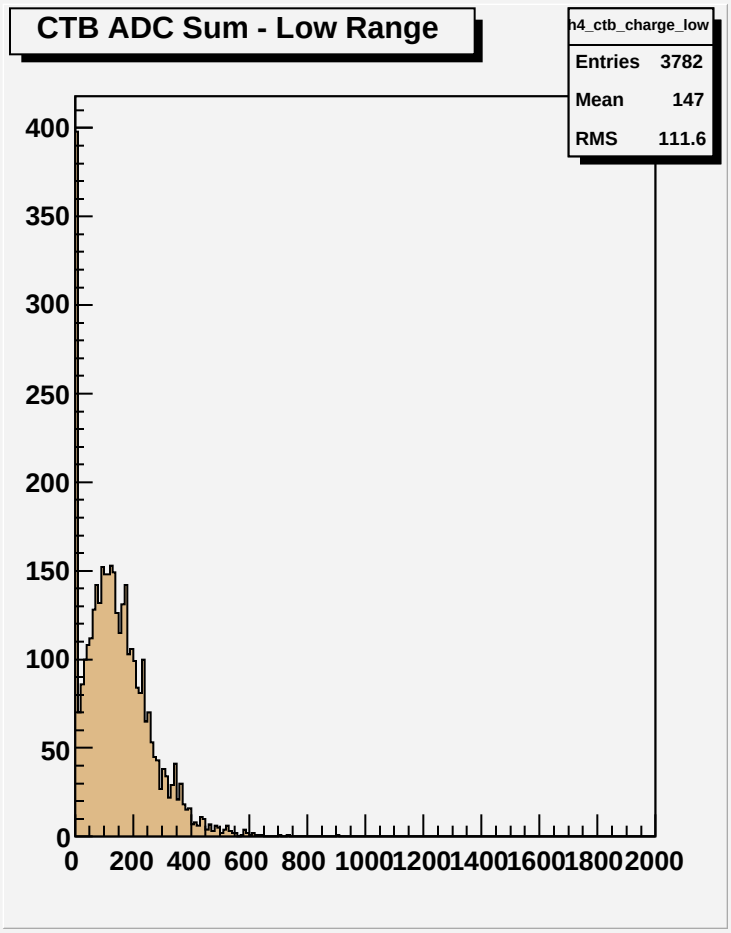

CTB ADC sum per channel
h7_ctb
Entries 47472
Mean 112.6
RMS 68.65

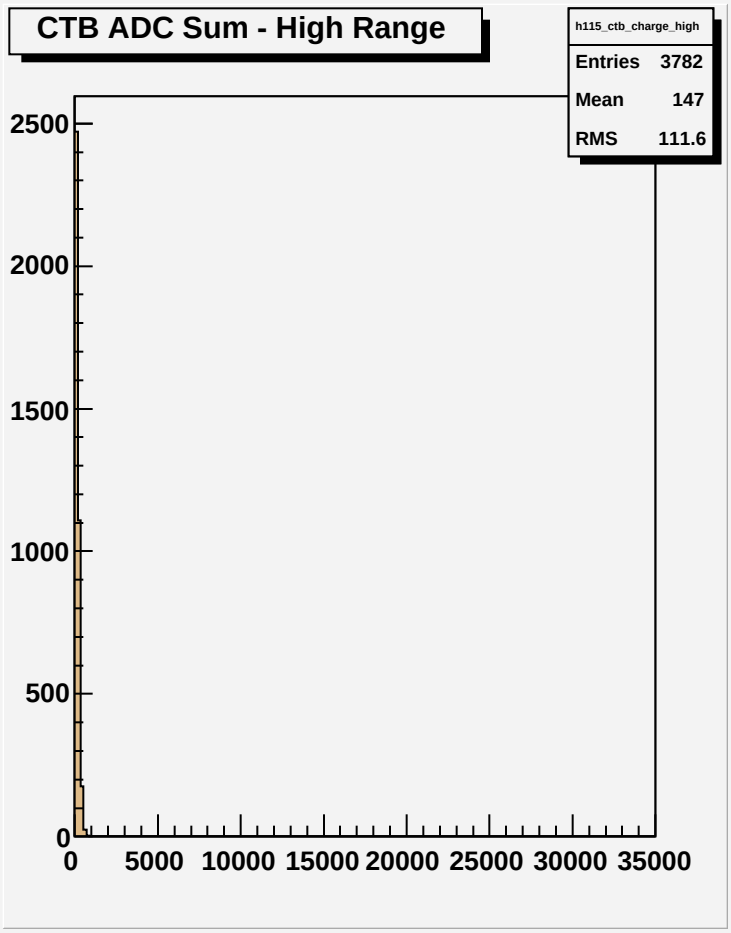

CTB His (ADC>0) Topo bit set
h6_ctb_hits_topo
Entries 0
Mean 0
RMS 0

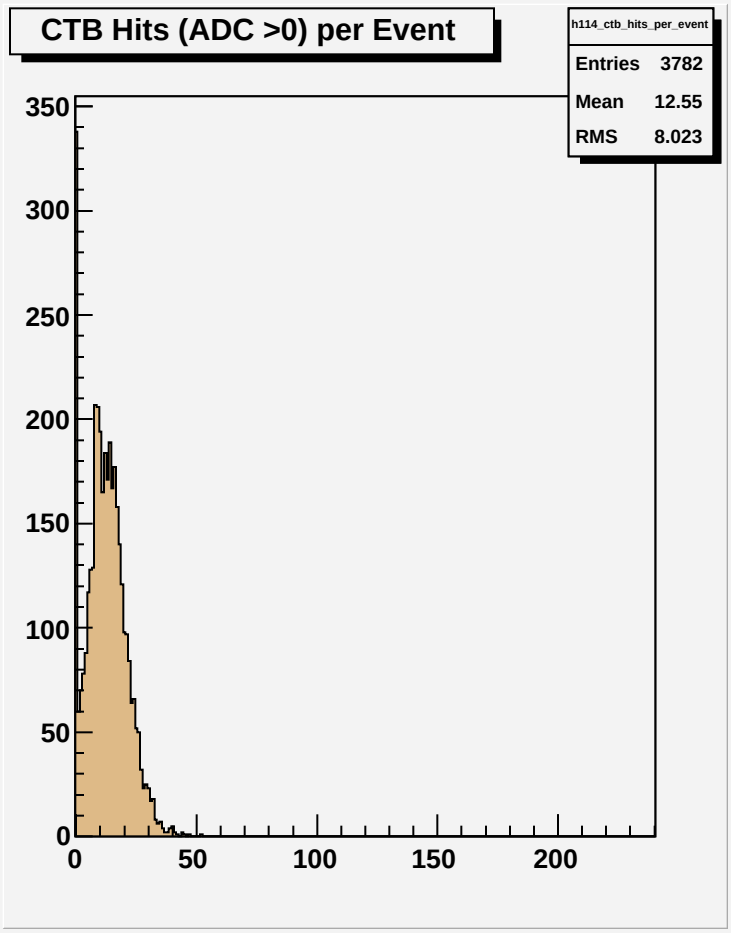

CTB ADC sum per channel Topo bit set
h9_ctb_topo
Entries 0
Mean 0
RMS 0

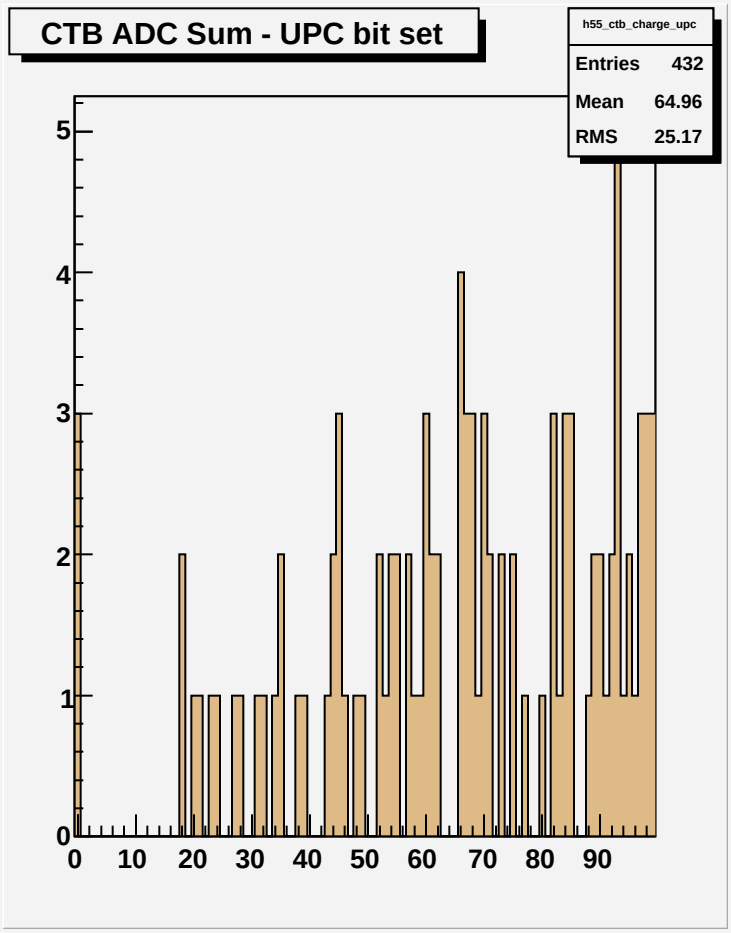

LastDSM[3] divided by CTBCh

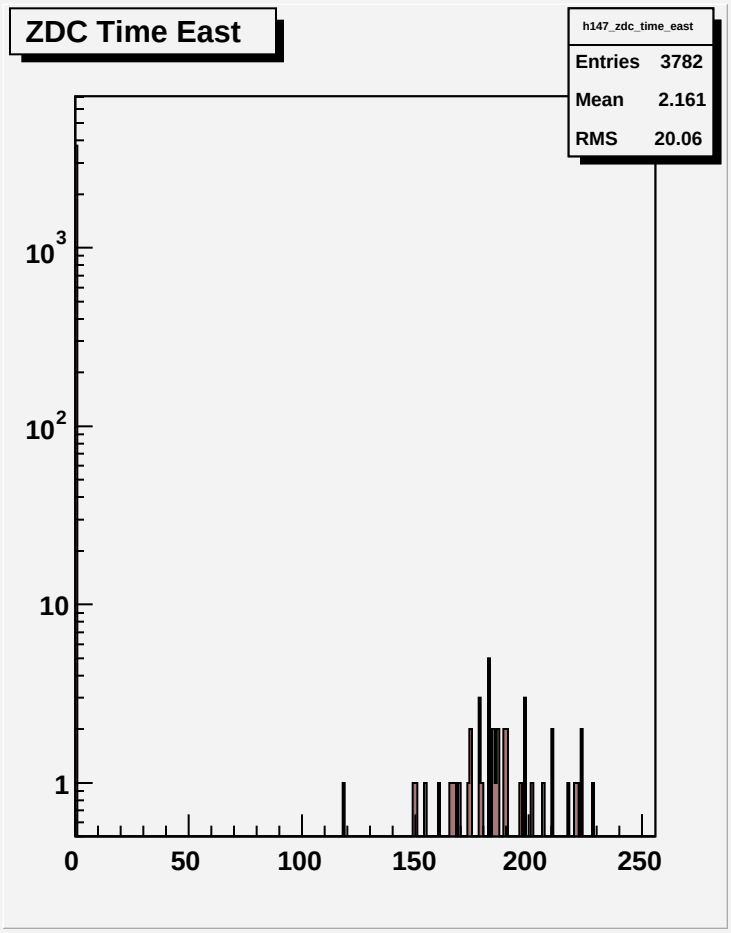

LastDSM[3] divided by CTBCh vs CTBCh

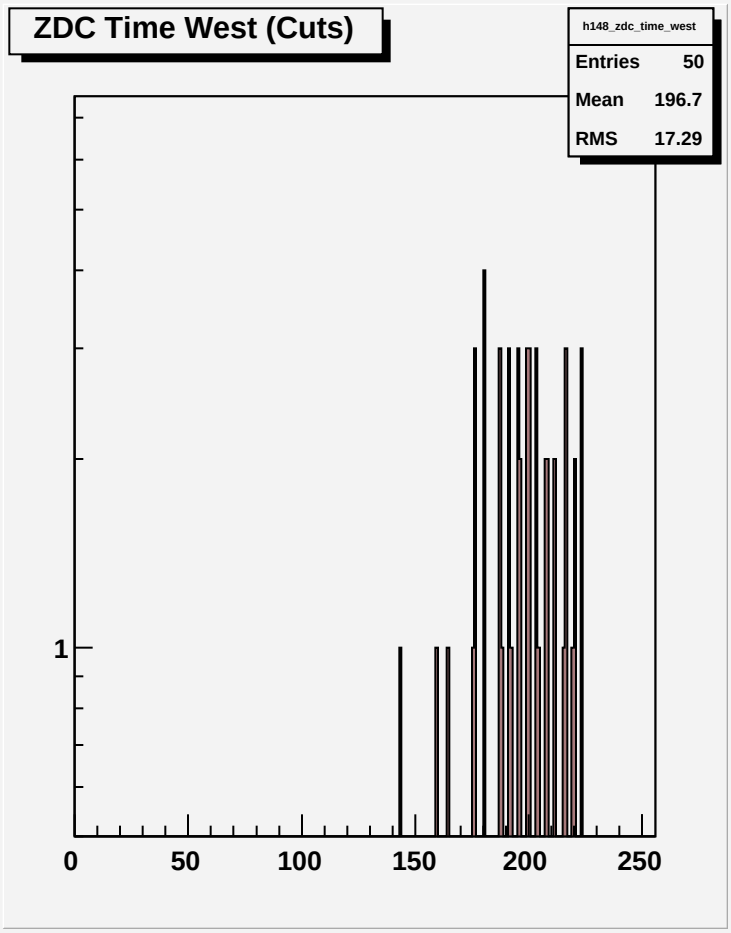

CTB ADC Sum - Low Range
h4_ctb_charge_low
Entries 3782
Mean 147
RMS 111.6
0
50
100
150
200
250
300
350
400
0 200 400 600 800 1000 1200 1400 1600 1800 2000

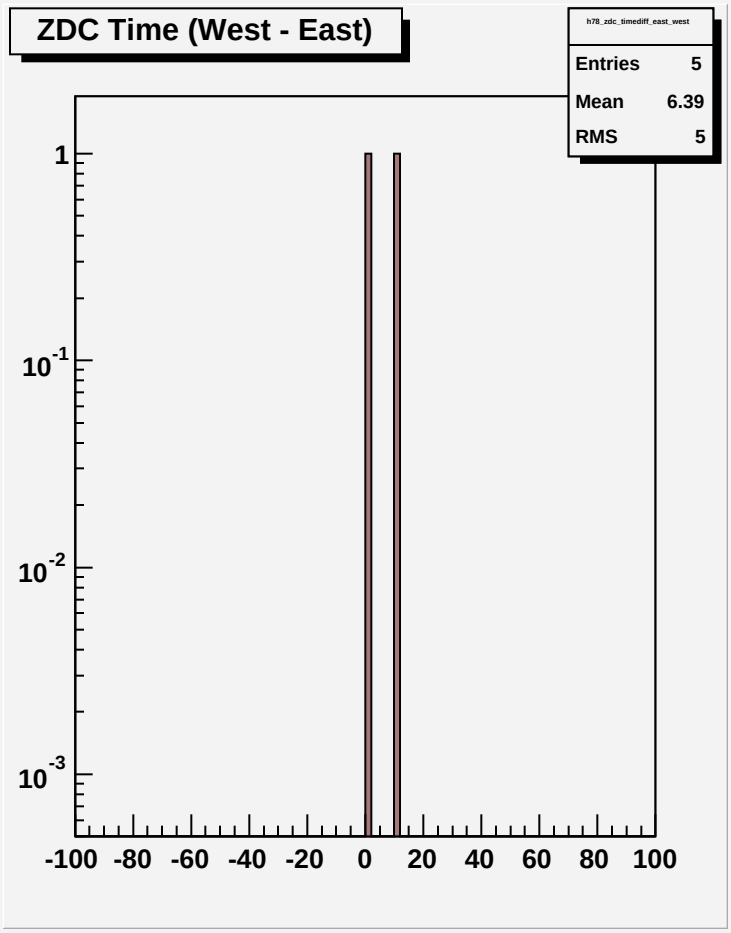

CTB ADC Sum - High Range
h115_ctb_charge_high
Entries 3782
Mean 147
RMS 111.6
0
500
1000
1500
2000
2500
0 5000 10000 15000 20000 25000 30000 35000

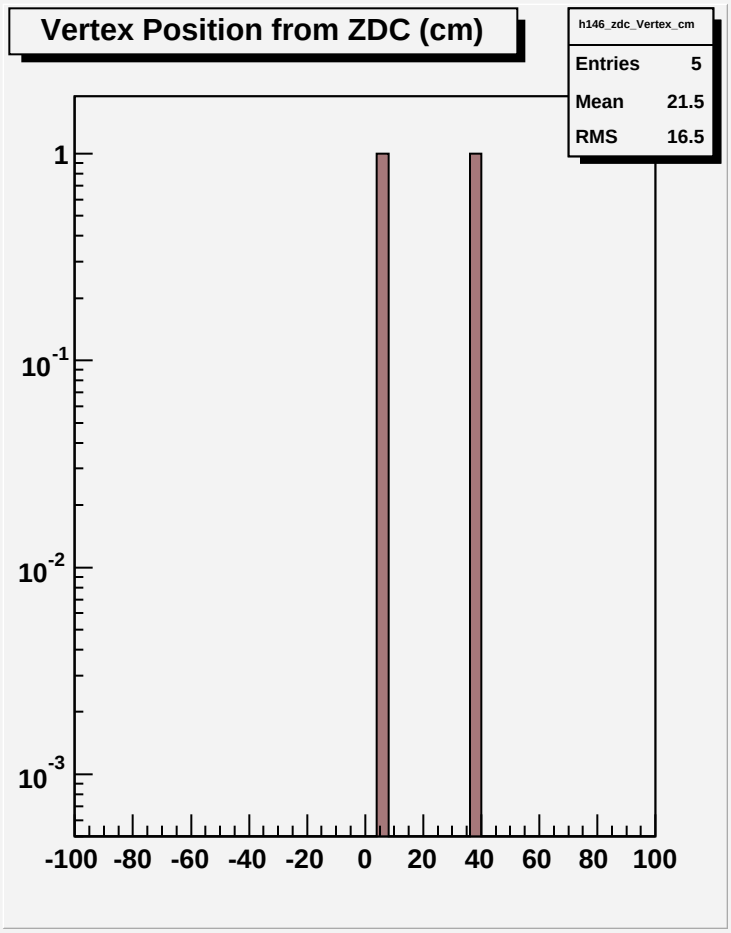

CTB Hits (ADC >0) per Event
h114_ctb_hits_per_event
Entries 3782
Mean 12.55
RMS 8.023
0
50
100
150
200
250
300
350
0 50 100 150 200

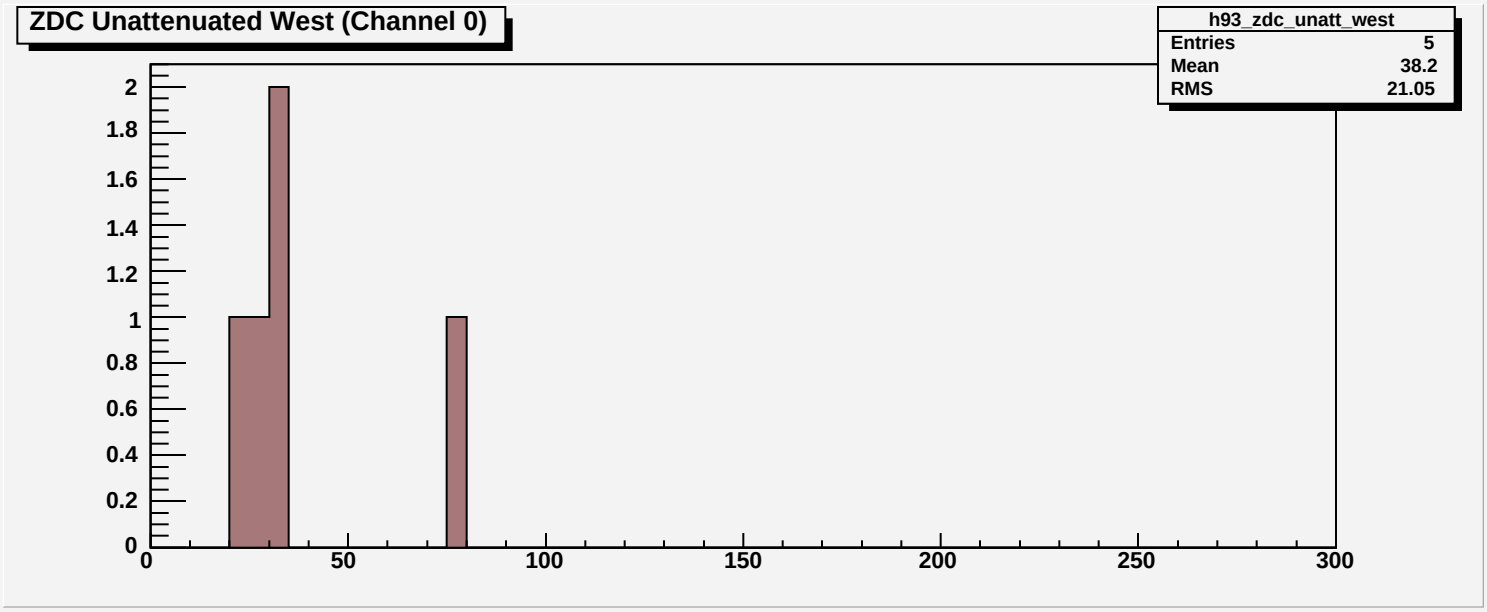

CTB ADC Sum - UPC bit set
h55_ctb_charge_upc
Entries 432
Mean 64.96
RMS 25.17
0
1
2
3
4
5
0 10 20 30 40 50 60 70 80 90

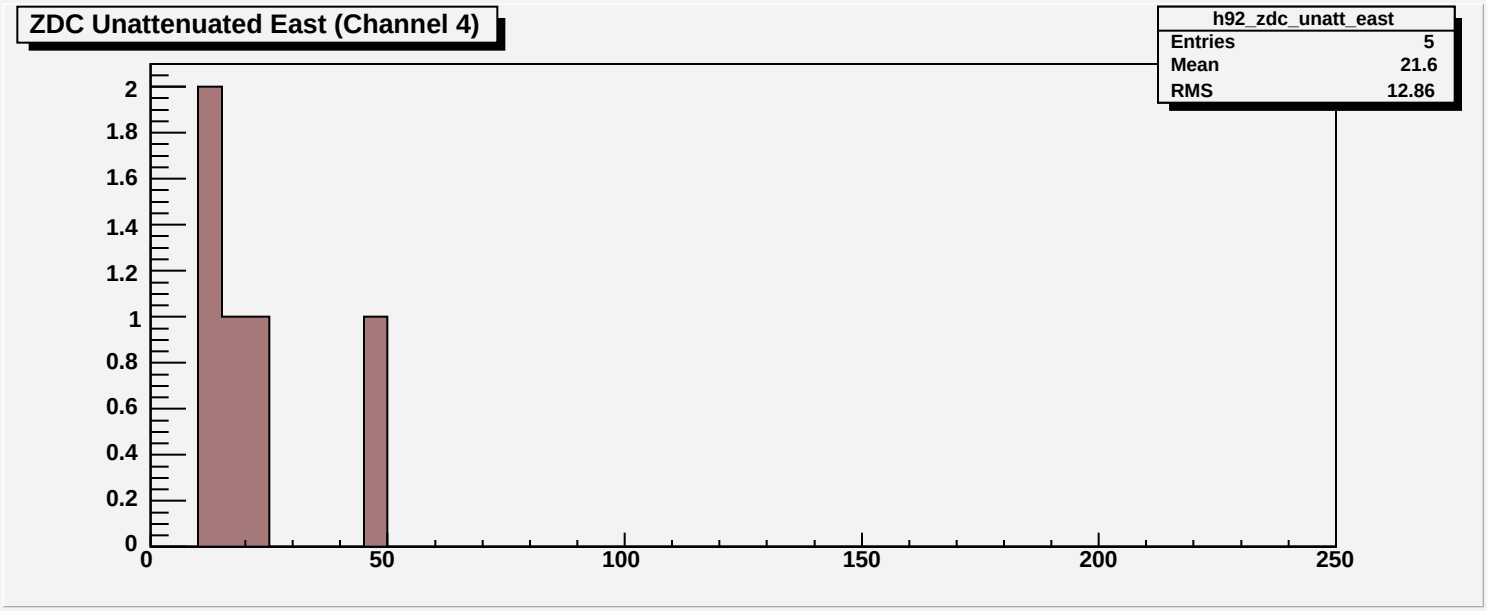

ZDC Time East
h147_zdc_time_east
Entries 3782
Mean 2.161
RMS 20.06
10^3
10^2
10
1
0
50
100
150
200
250

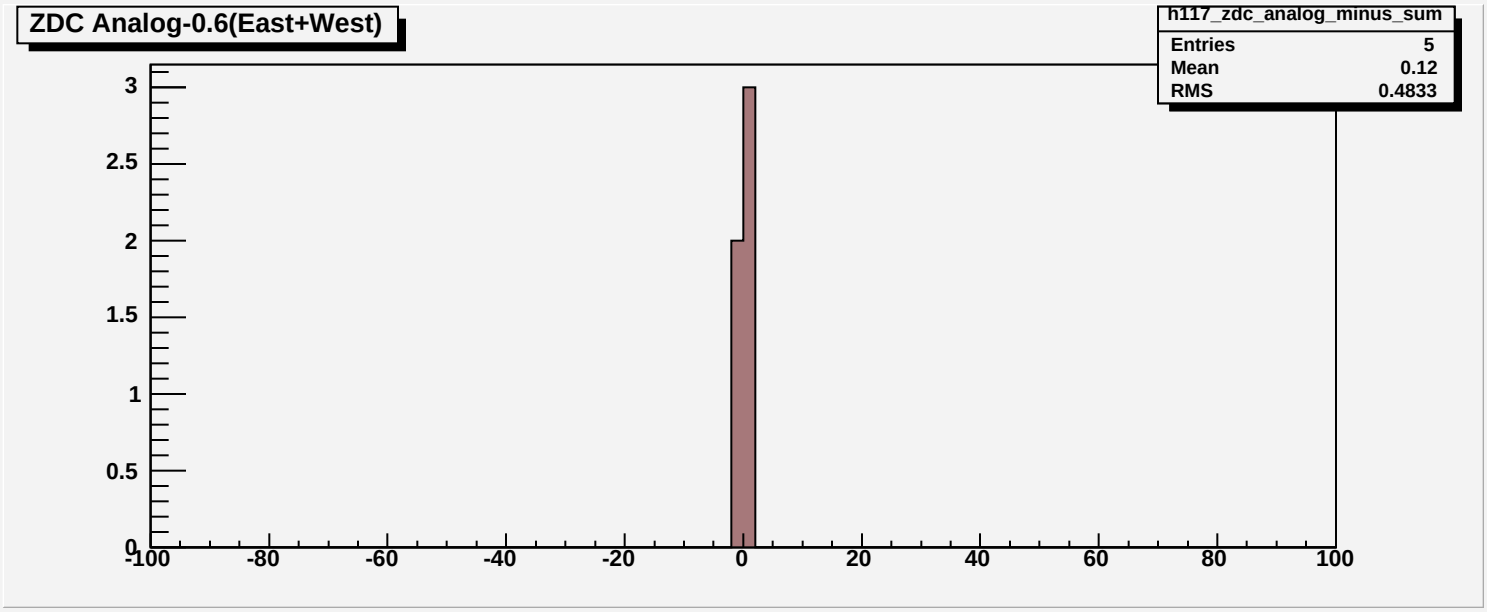

ZDC Time West (Cuts)
h148_zdc_time_west
Entries 50
Mean 196.7
RMS 17.29
1
0
50
100
150
200
250

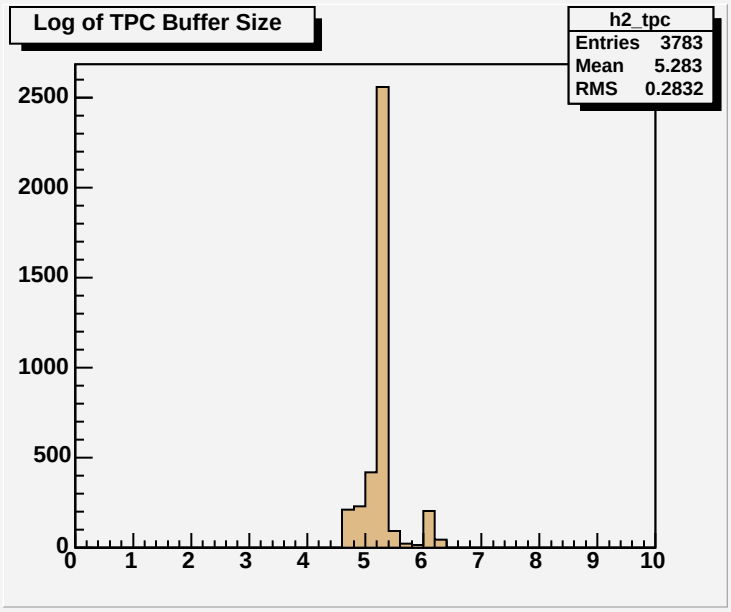

ZDC Time (West - East)
h78_zdc_timediff_east_west
Entries 5
Mean 6.39
RMS 5
1
10^-1
10^-2
10^-3
-100
-80
-60
-40
-20
0
20
40
60
80
100

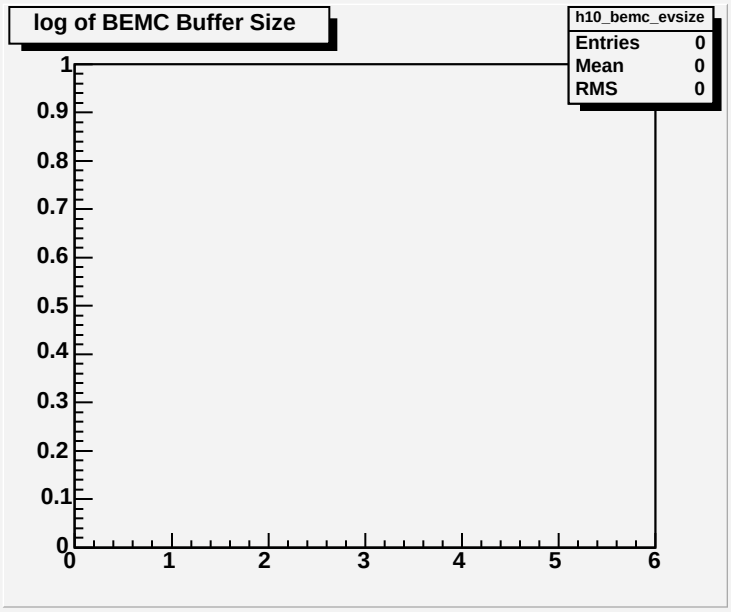

Vertex Position from ZDC (cm)
h146_zdc_Vertex_cm
Entries 5
Mean 21.5
RMS 16.5
1
10^-1
10^-2
10^-3
-100
-80
-60
-40
-20
0
20
40
60
80
100

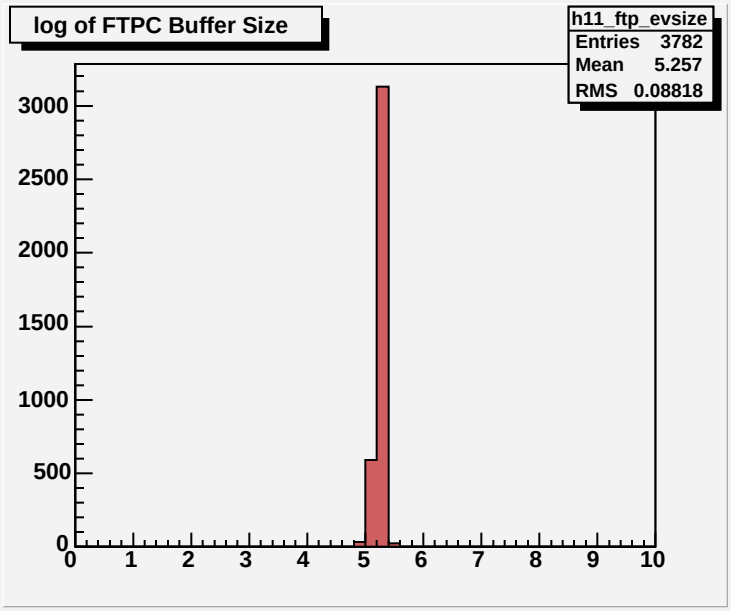

ZDC Unattenuated West (Channel 0)
h93_zdc_unatt_west
Entries 5
Mean 38.2
RMS 21.05
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 50 100 150 200 250 300

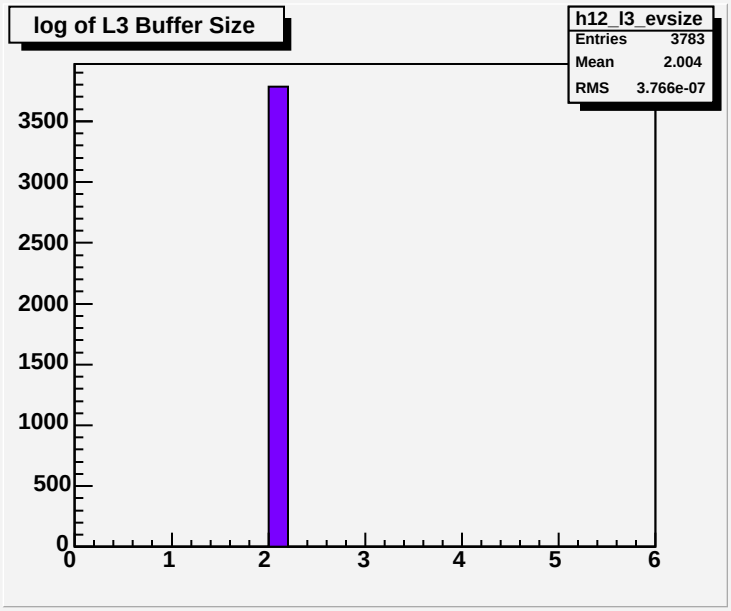

ZDC Unattenuated East (Channel 4)
h92_zdc_unatt_east
Entries 5
Mean 21.6
RMS 12.86
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2
0 50 100 150 200 250

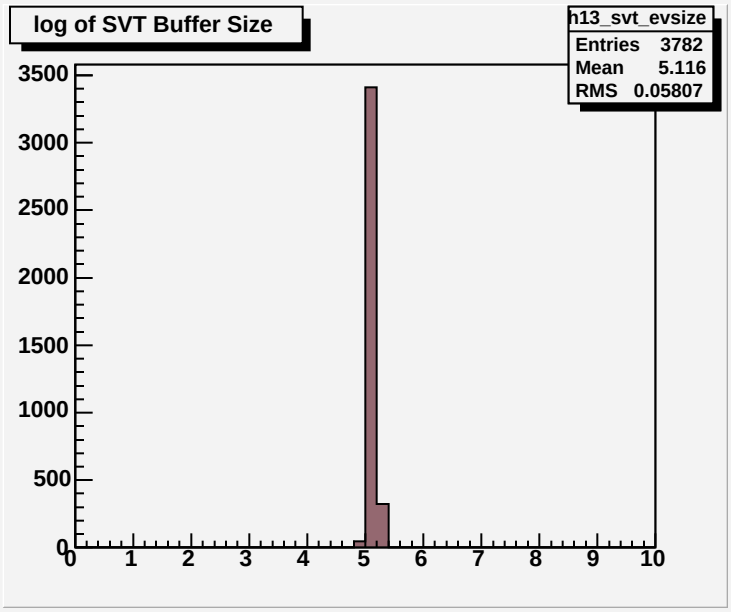

ZDC Analog-0.6(East+West)
h117_zdc_analog_minus_sum
Entries 5
Mean 0.12
RMS 0.4833
0 0.5 1 1.5 2 2.5 3
-100 -80 -60 -40 -20 0 20 40 60 80 100

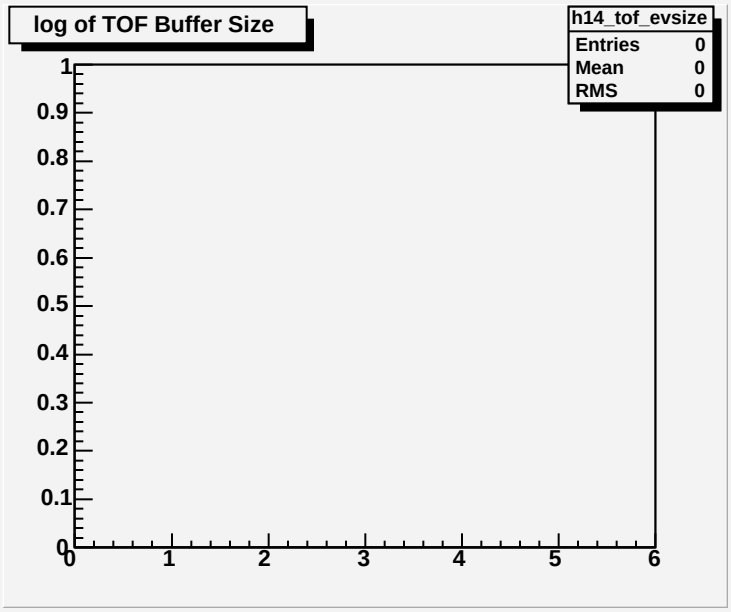

Log of TPC Buffer Size
h2_tpc
Entries 3783
Mean 5.283
RMS 0.2832

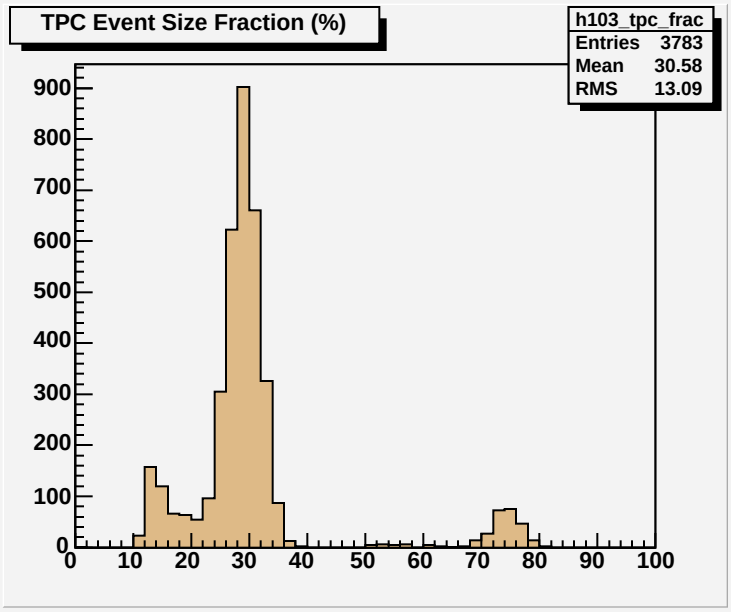

log of BEMC Buffer Size
h10_bemc_evsize
Entries 0
Mean 0
RMS 0

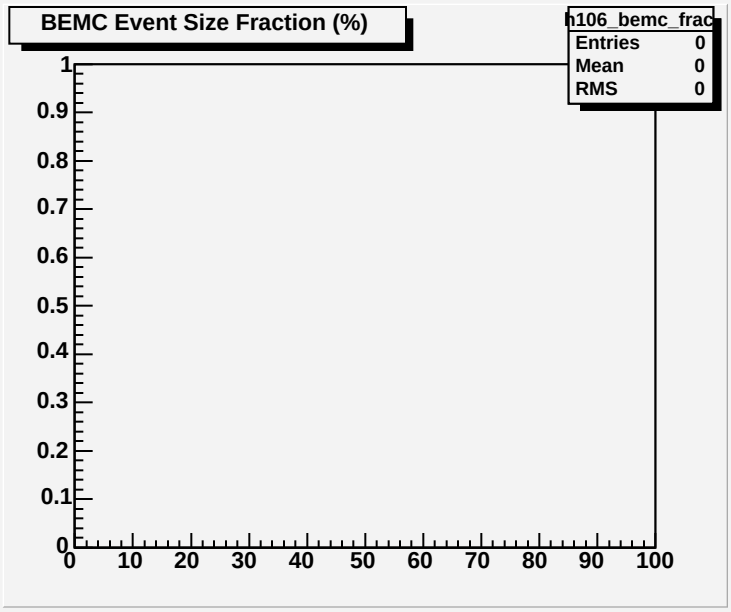

log of FTPC Buffer Size
h11_ftp_evsize
Entries 3782
Mean 5.257
RMS 0.08818

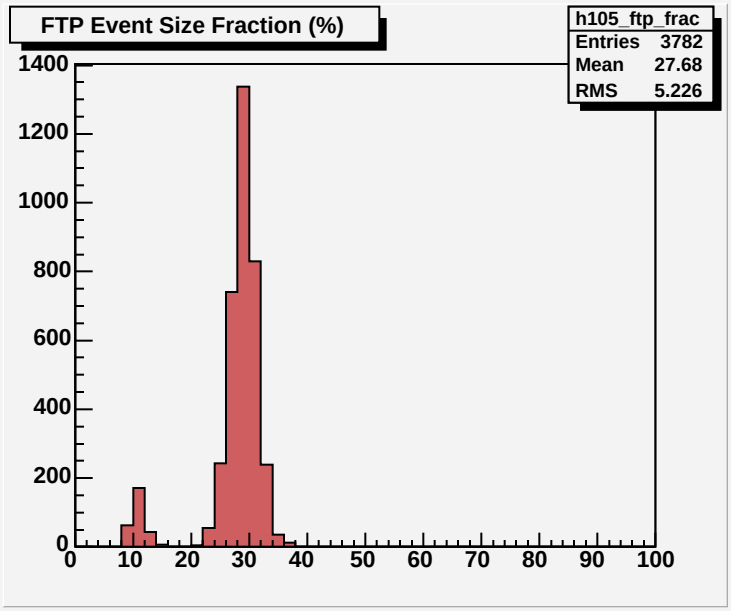

log of L3 Buffer Size
h12_l3_evsize
Entries 3783
Mean 2.004
RMS 3.766e-07

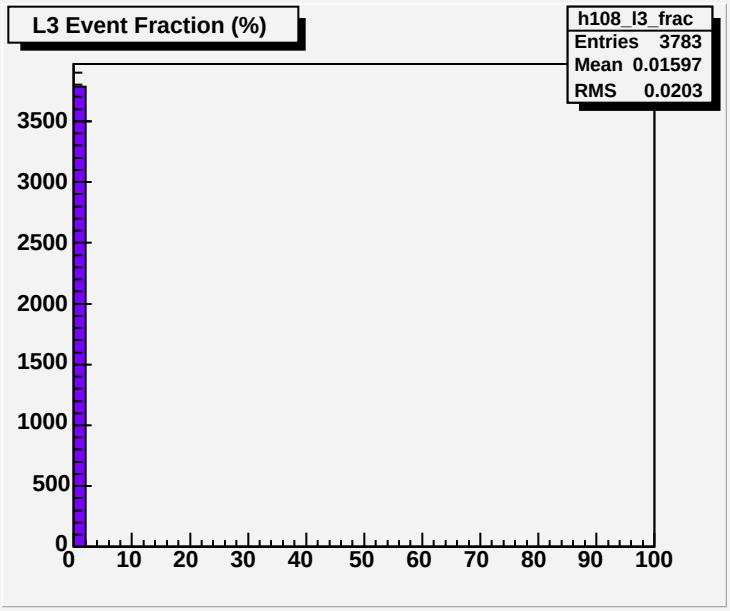

log of SVT Buffer Size
h13_svt_evsize
Entries 3782
Mean 5.116
RMS 0.05807

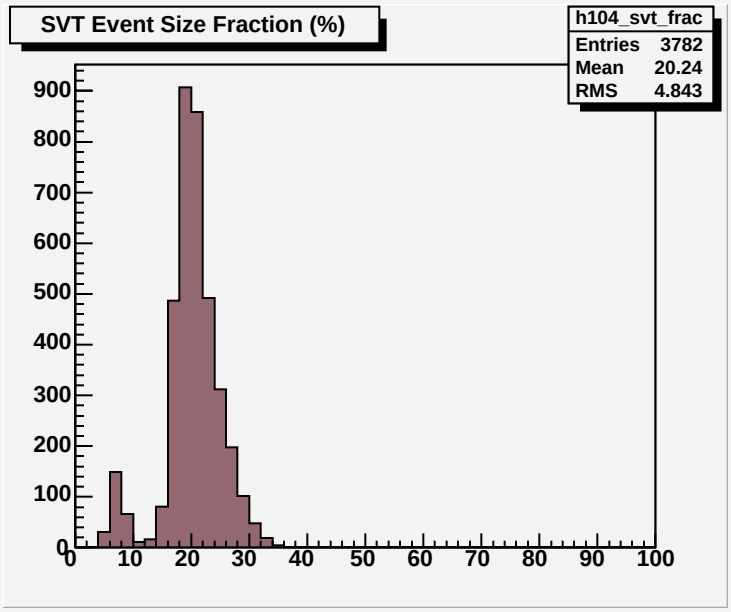

log of TOF Buffer Size
h14_tof_evsize
Entries 0
Mean 0
RMS 0

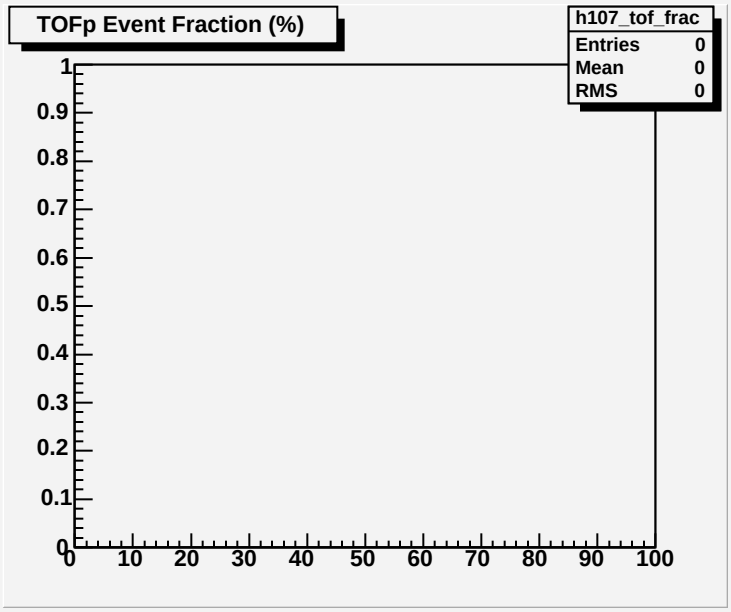

TPC Event Size Fraction (%)
h103_tpc_frac
Entries 3783
Mean 30.58
RMS 13.09

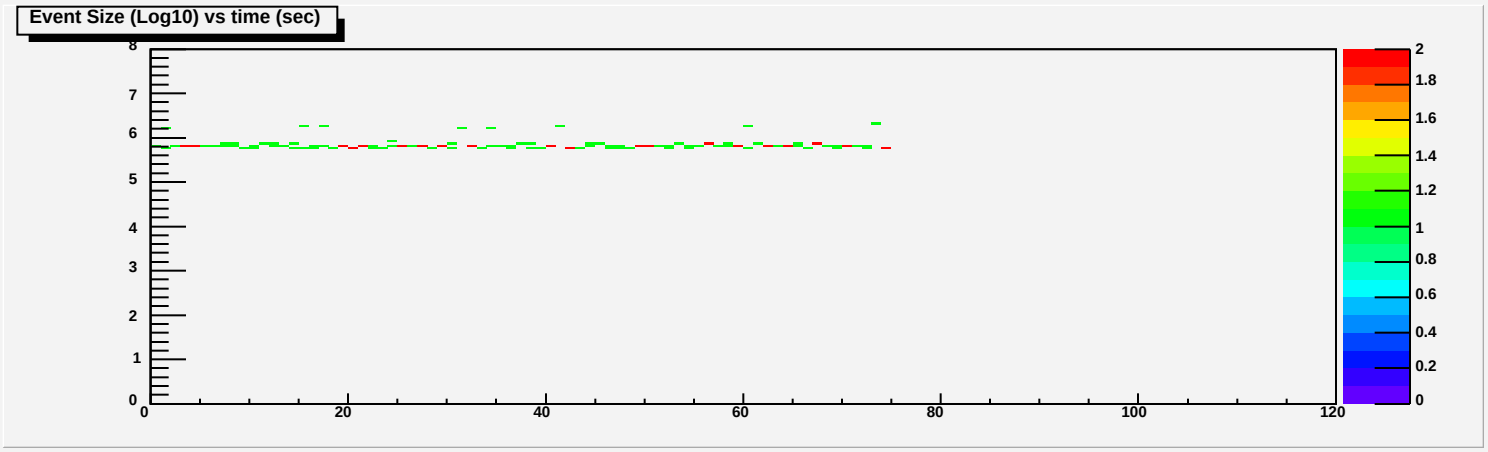

BEMC Event Size Fraction (%)
h106_bemc_frac
Entries 0
Mean 0
RMS 0

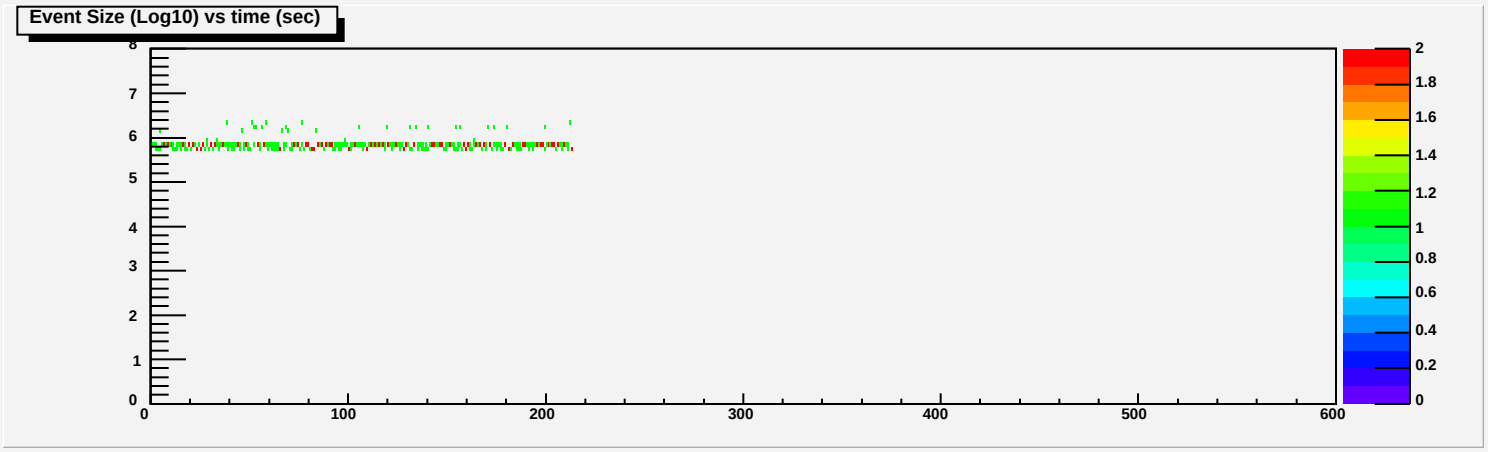

FTP Event Size Fraction (%)
h105_ftp_frac
Entries 3782
Mean 27.68
RMS 5.226

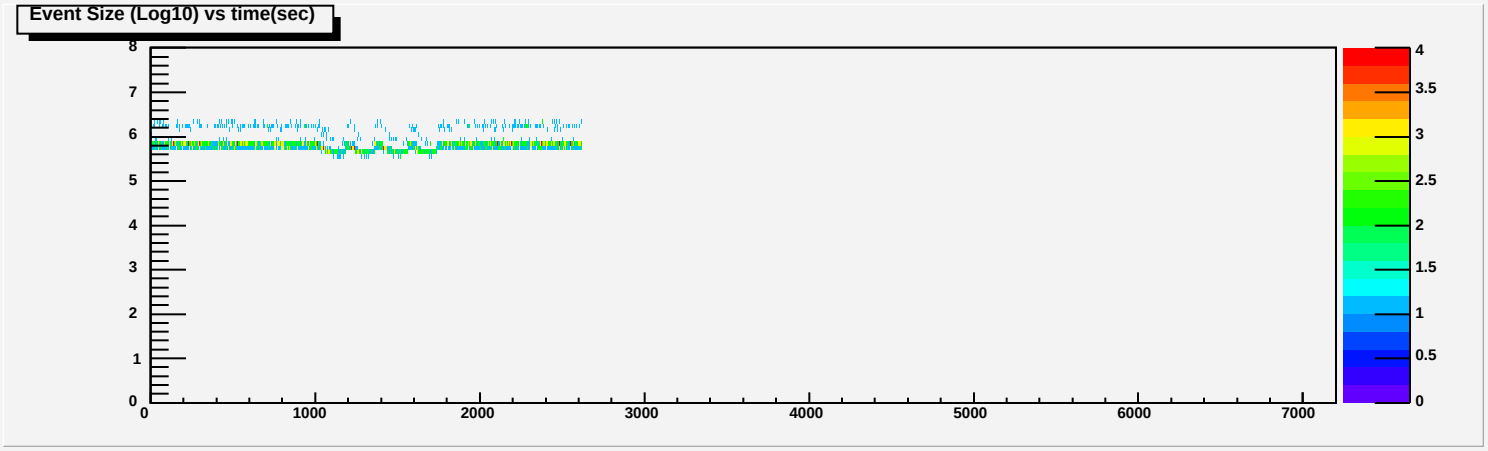

L3 Event Fraction (%)
h108_l3_frac
Entries 3783
Mean 0.01597
RMS 0.0203

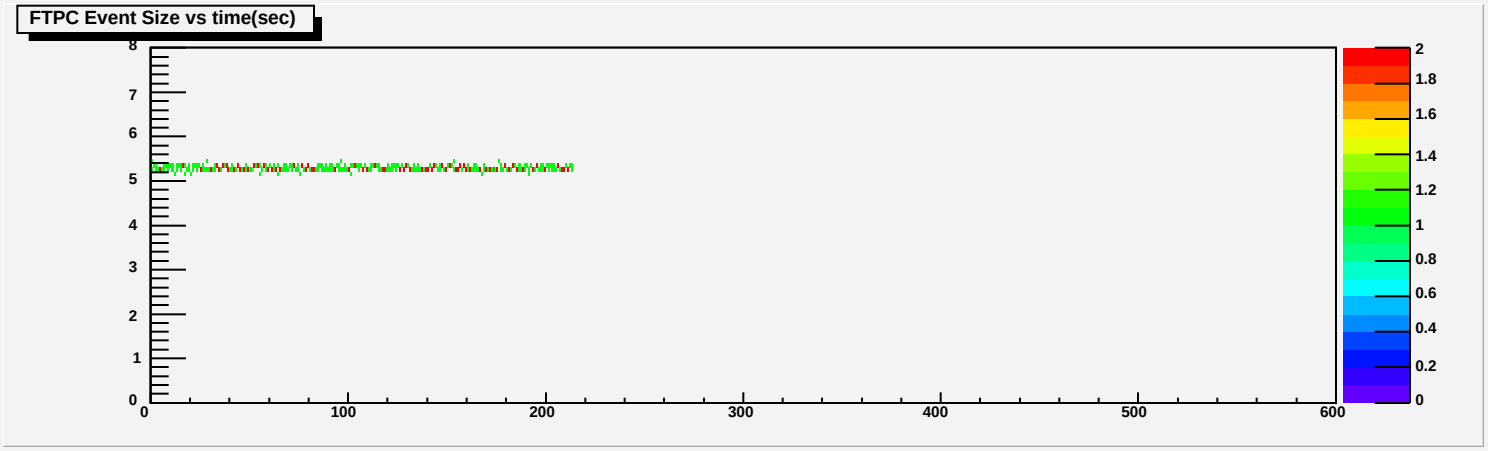

SVT Event Size Fraction (%)
h104_svt_frac
Entries 3782
Mean 20.24
RMS 4.843

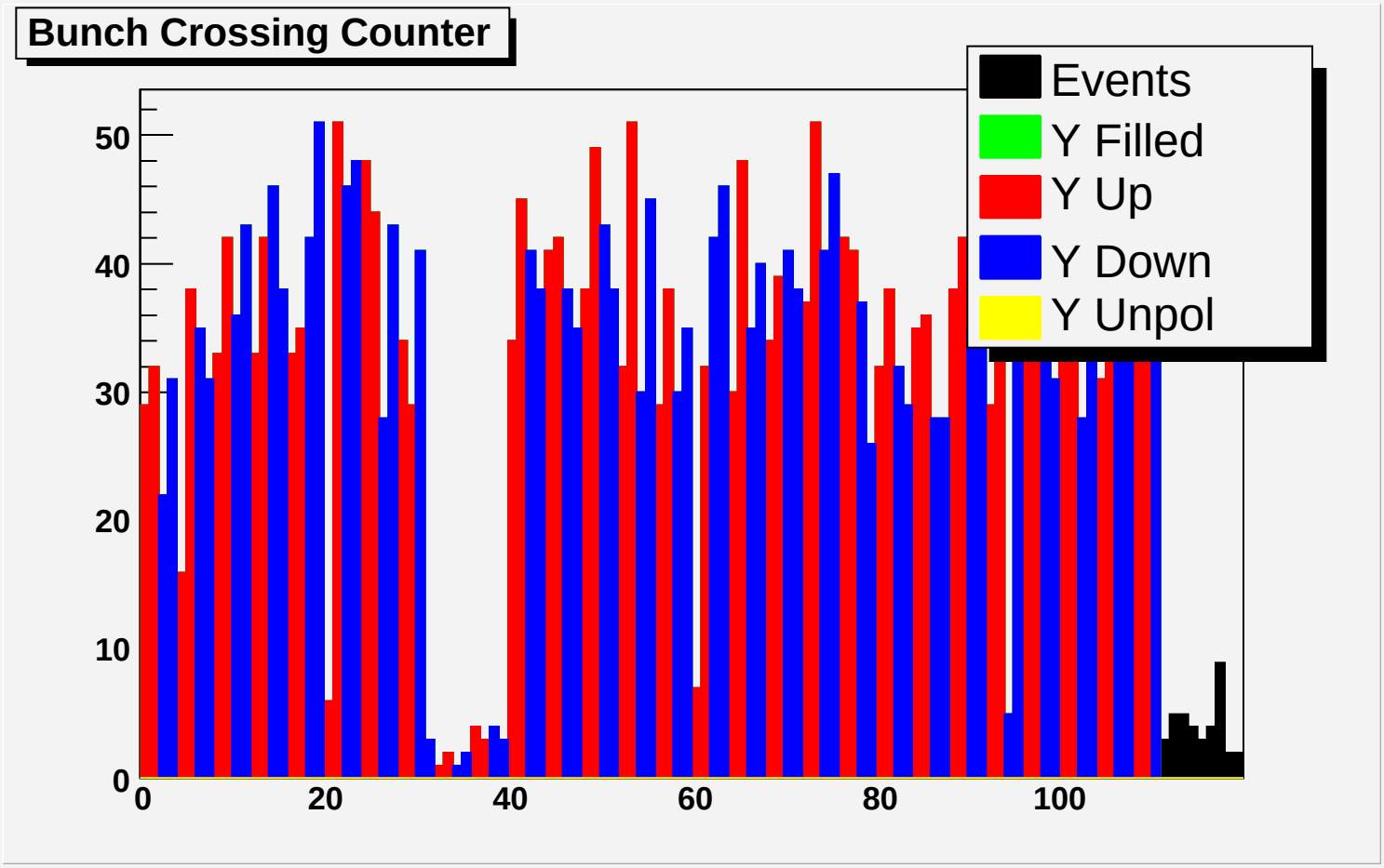

TOFp Event Fraction (%)
h107_tof_frac
Entries 0
Mean 0
RMS 0

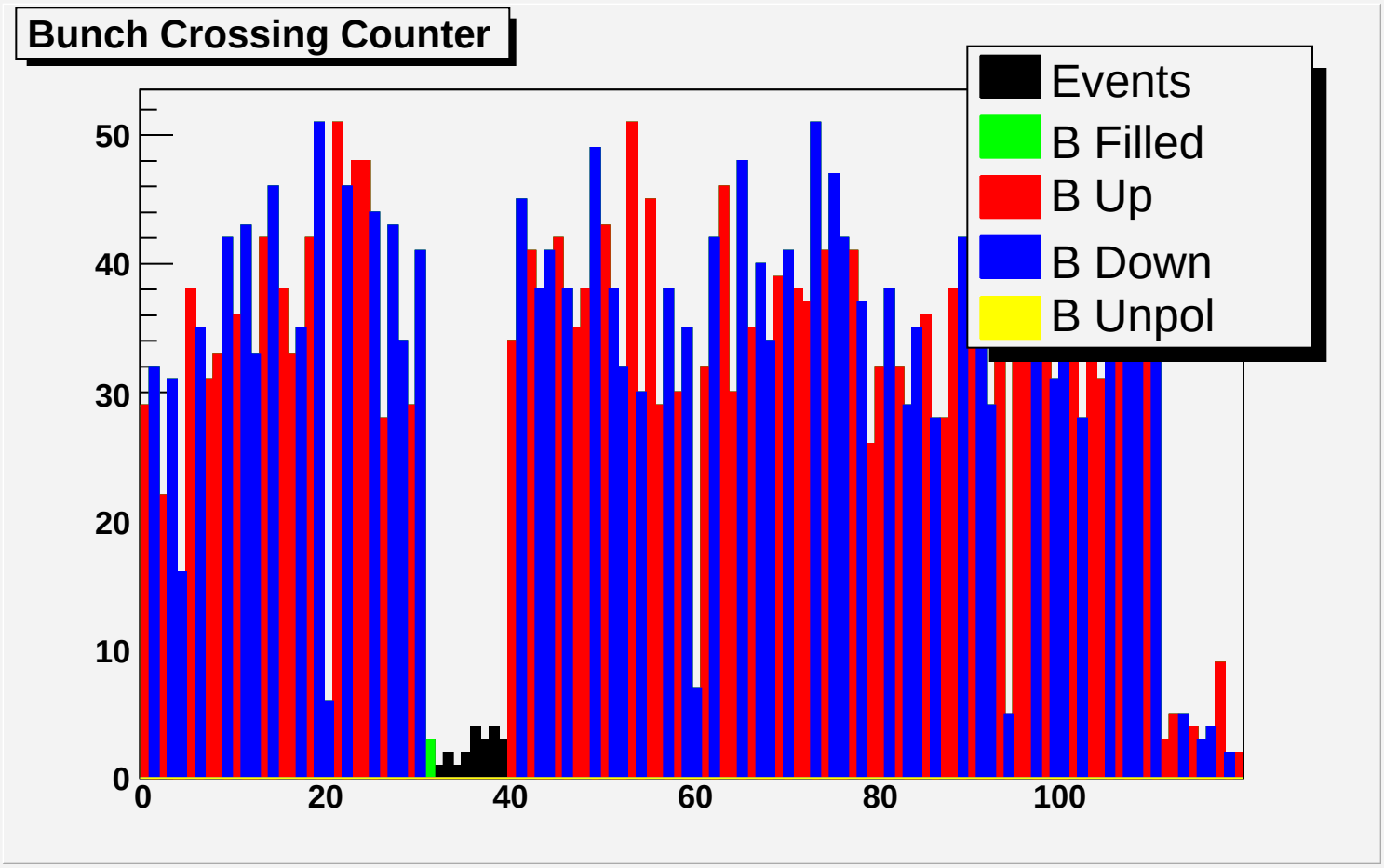

Event Size (Log10) vs time (sec)

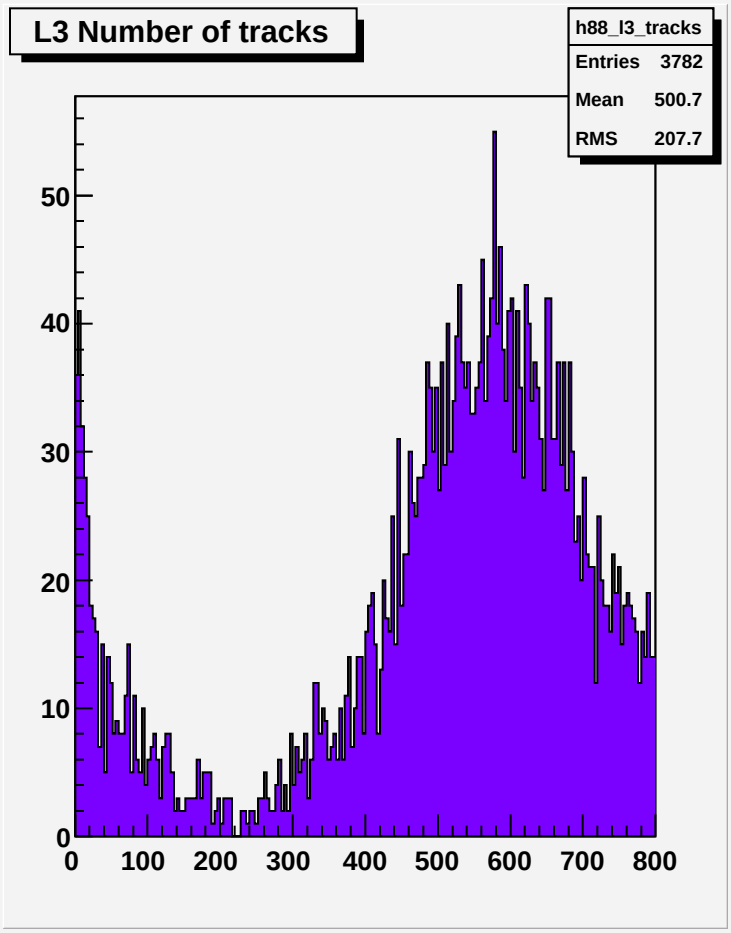

Event Size (Log10) vs time (sec)

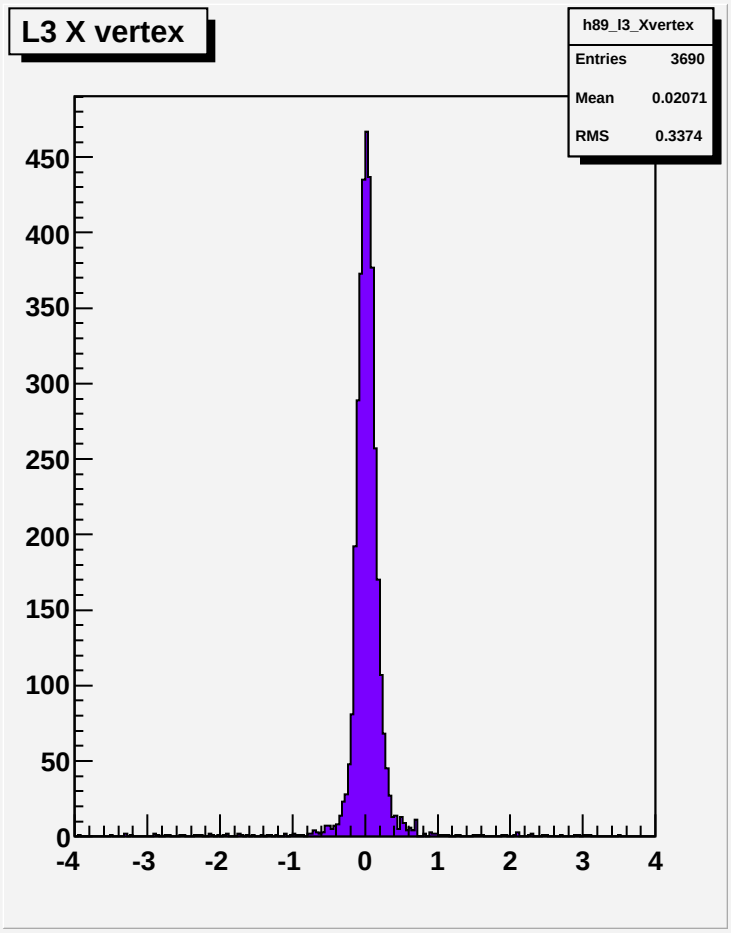

Event Size (Log10) vs time(sec)

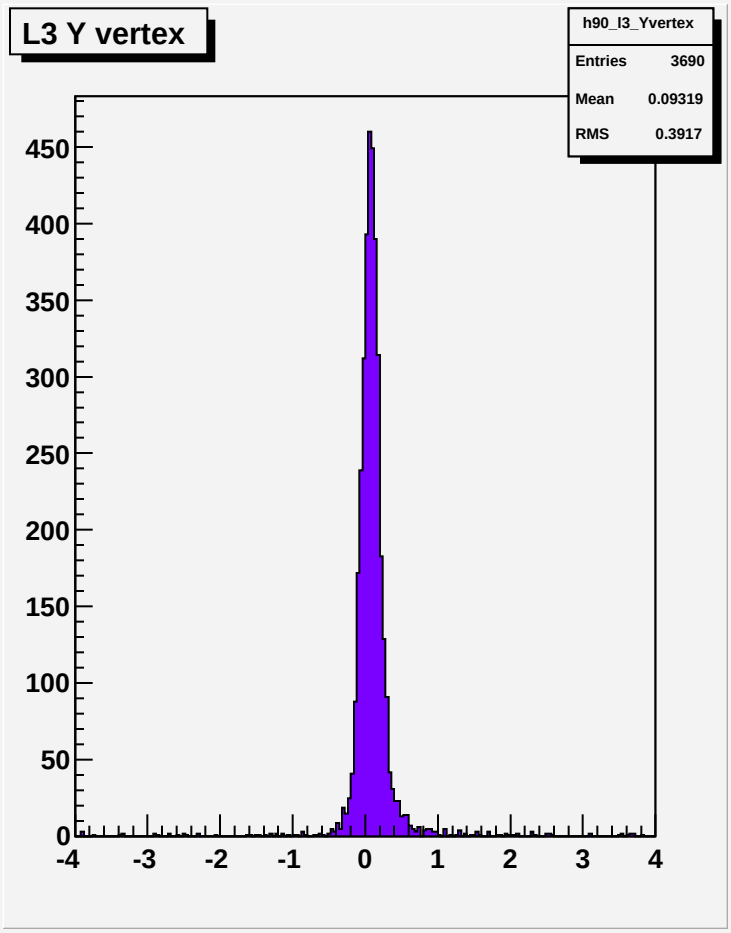

FTPC Event Size vs time(sec)

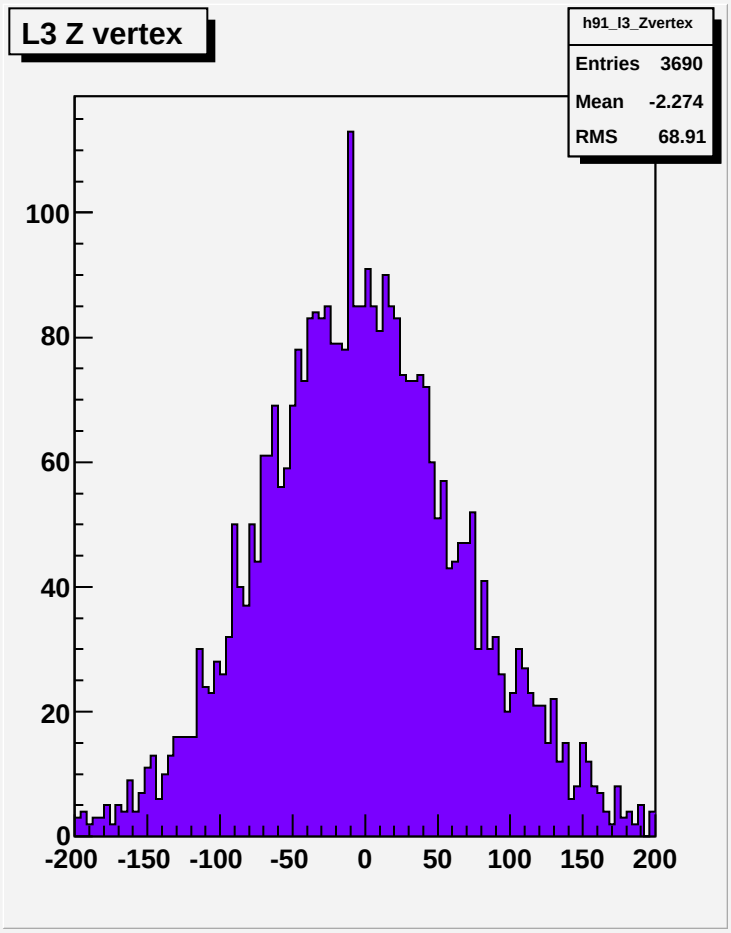

Bunch Crossing Counter
Events
Y Filled
Y Up
Y Down
Y Unpol
0
10
20
30
40
50
0
20
40
60
80
100

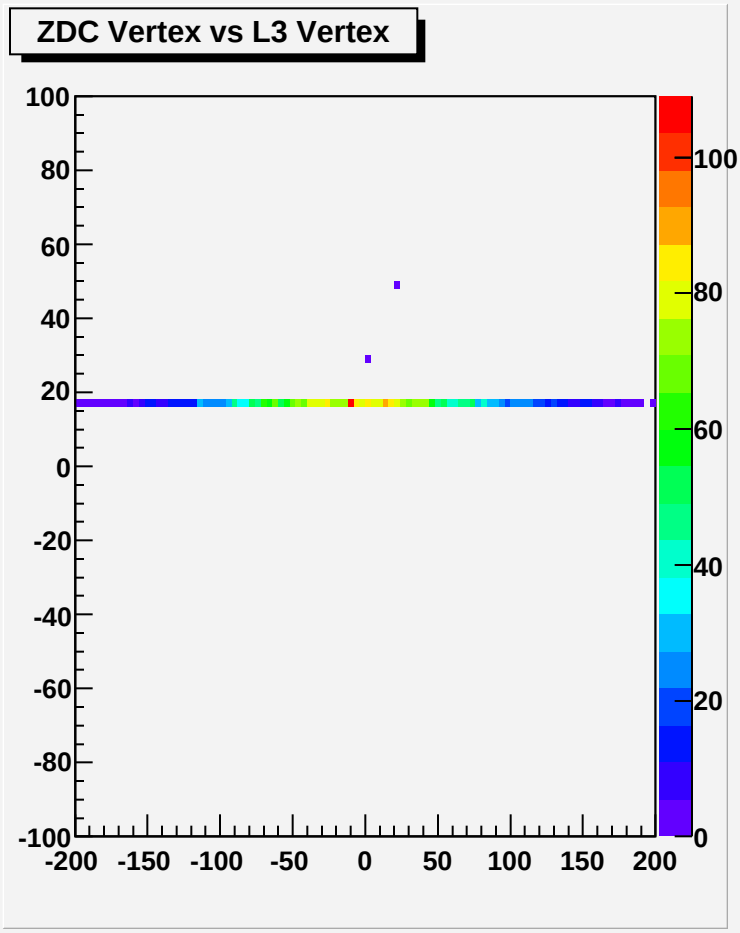

Bunch Crossing Counter
Events
B Filled
B Up
B Down
B Unpol
0
10
20
30
40
50
0
20
40
60
80
100

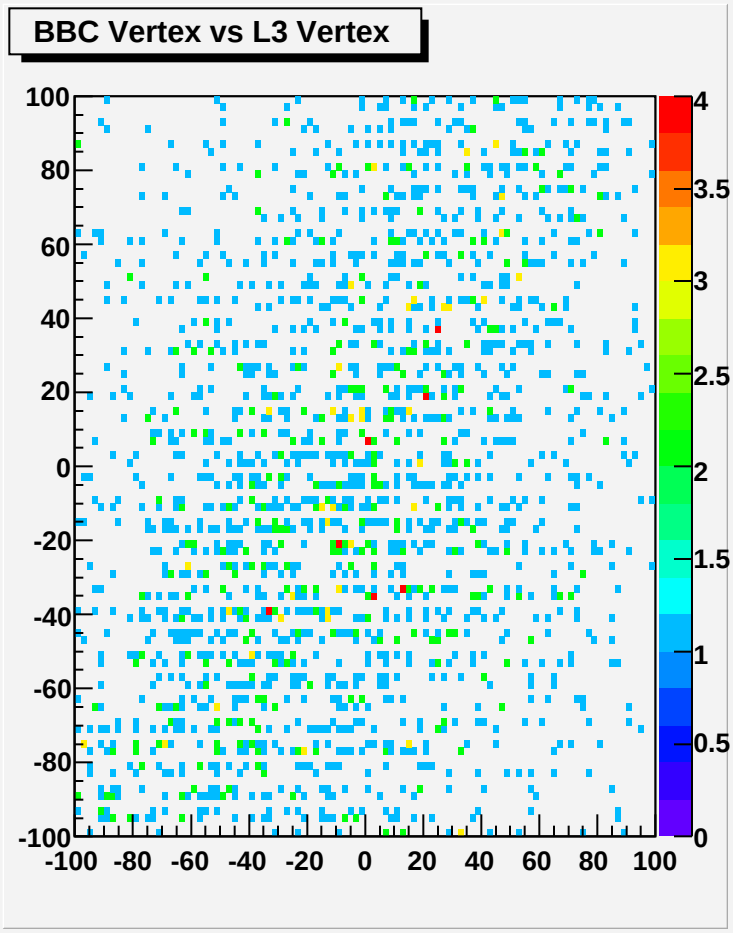

L3 Number of tracks
h88_l3_tracks
Entries 3782
Mean 500.7
RMS 207.7
0
10
20
30
40
50
0
100
200
300
400
500
600
700
800

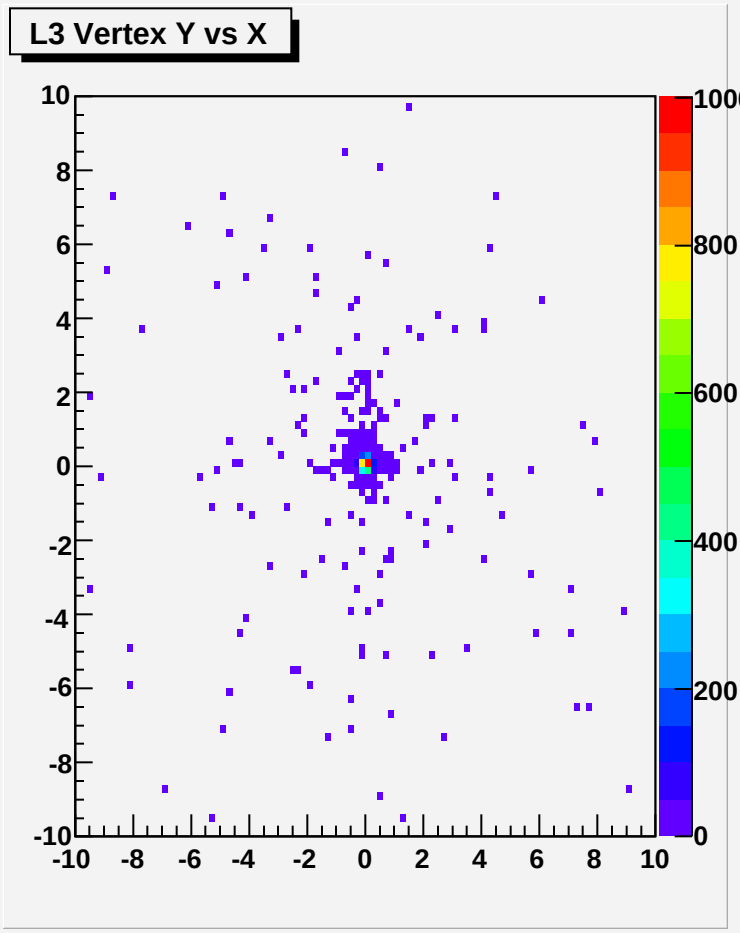

L3 X vertex
h89_l3_Xvertex
Entries 3690
Mean 0.02071
RMS 0.3374
0
50
100
150
200
250
300
350
400
450
-4
-3
-2
-1
0
1
2
3
4

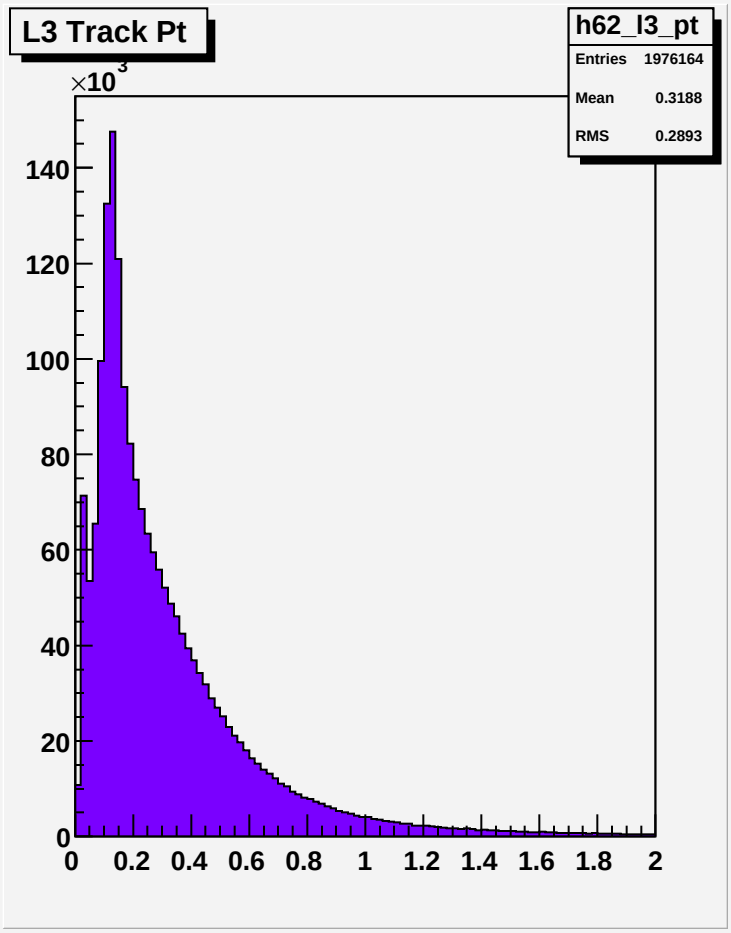

L3 Y vertex
h90_l3_Yvertex
Entries 3690
Mean 0.09319
RMS 0.3917
0
50
100
150
200
250
300
350
400
450
-4
-3
-2
-1
0
1
2
3
4

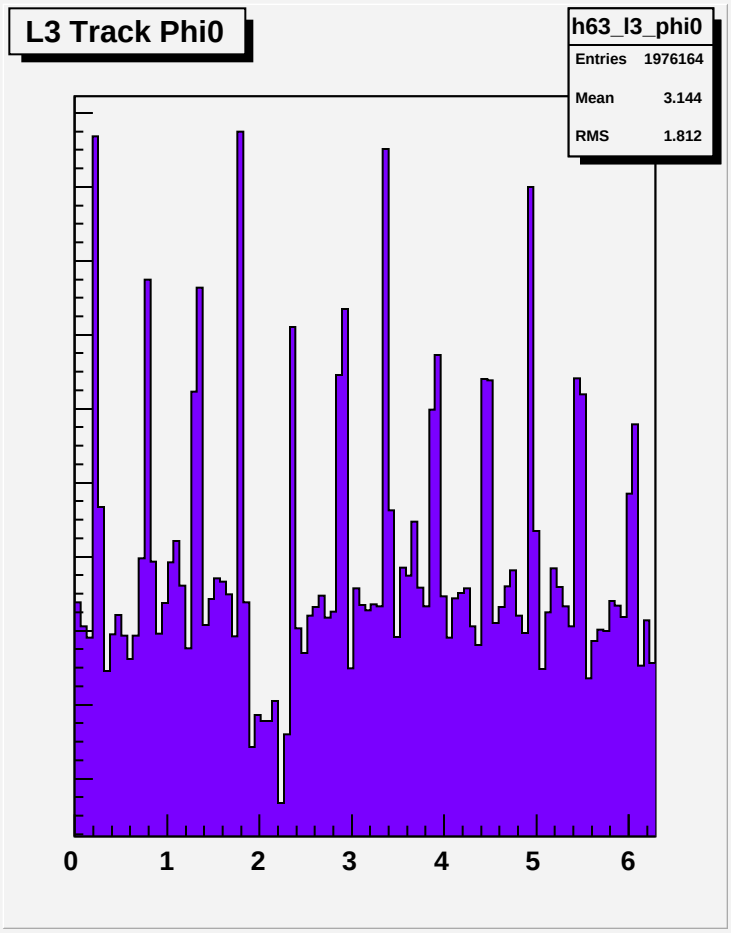

L3 Z vertex
h91_l3_Zvertex
Entries 3690
Mean -2.274
RMS 68.91
0
20
40
60
80
100
-200
-150
-100
-50
0
50
100
150
200

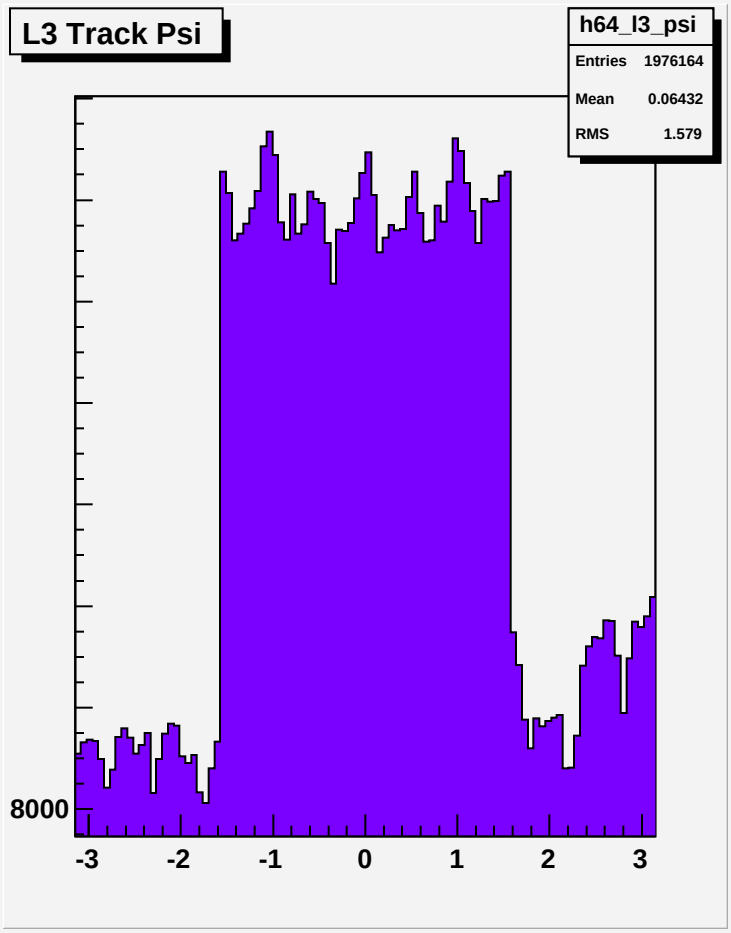

ZDC Vertex vs L3 Vertex
100
80
60
40
20
0
-20
-40
-60
-80
-100
-200 -150 -100 -50 0 50 100 150 200
100
80
60
40
20
0

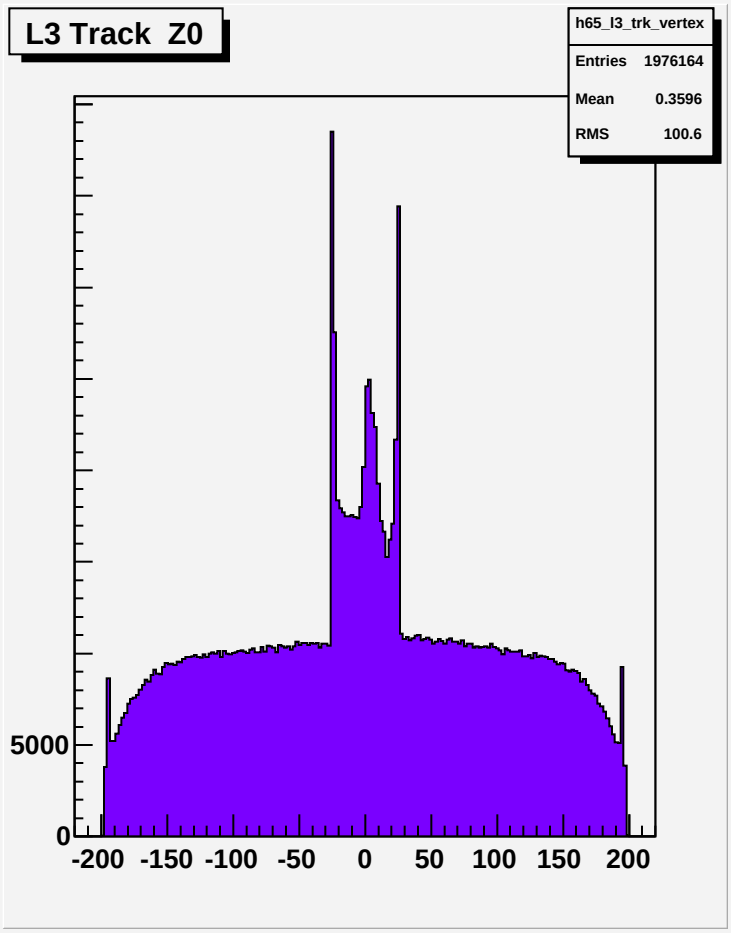

BBC Vertex vs L3 Vertex
100
80
60
40
20
0
-20
-40
-60
-80
-100
-100 -80 -60 -40 -20 0 20 40 60 80 100
4
3.5
3
2.5
2
1.5
1
0.5
0

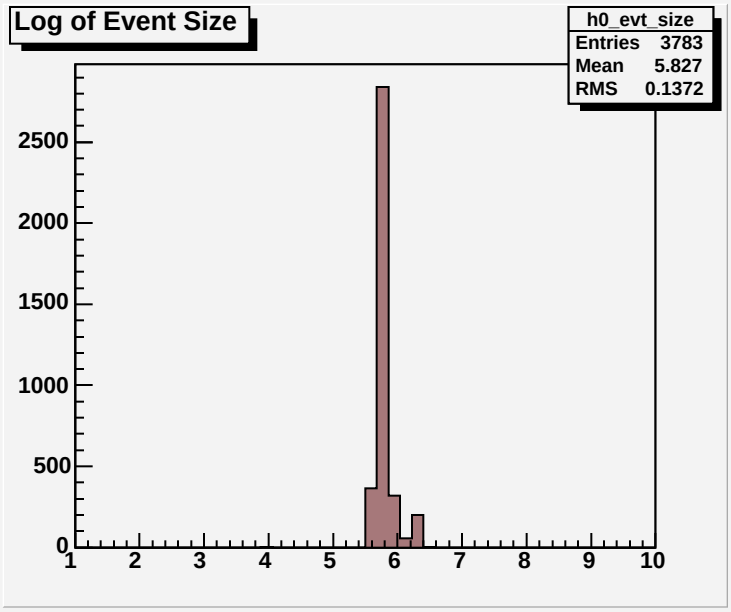

L3 Vertex Y vs X
10
8
6
4
2
0
-2
-4
-6
-8
-10
-10 -8 -6 -4 -2 0 2 4 6 8 10
1000
800
600
400
200
0

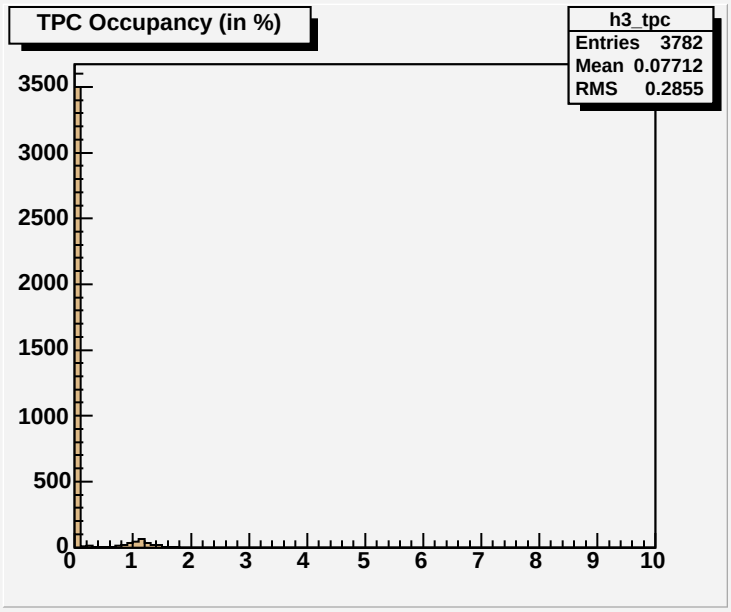

L3 Track Pt
h62_l3_pt
Entries 1976164
Mean 0.3188
RMS 0.2893
×10^3
140
120
100
80
60
40
20
0
0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 2

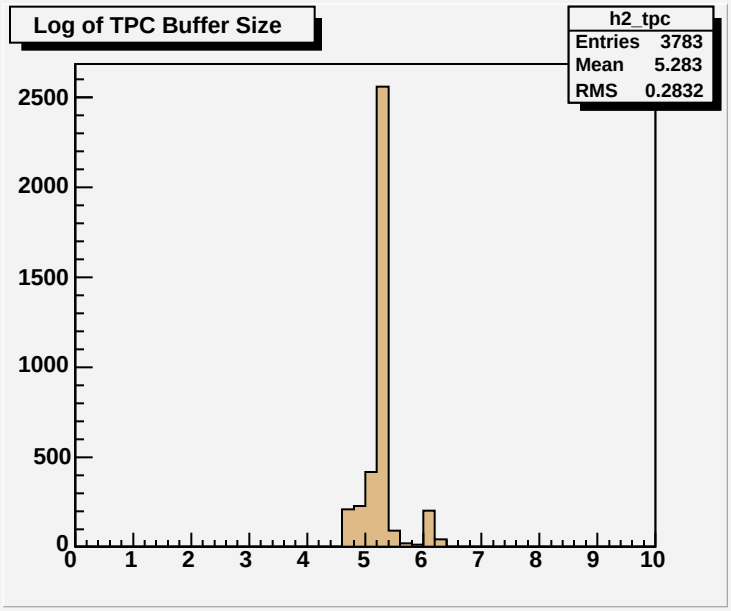

L3 Track Phi0
h63_l3_phi0
Entries 1976164
Mean 3.144
RMS 1.812
0 1 2 3 4 5 6

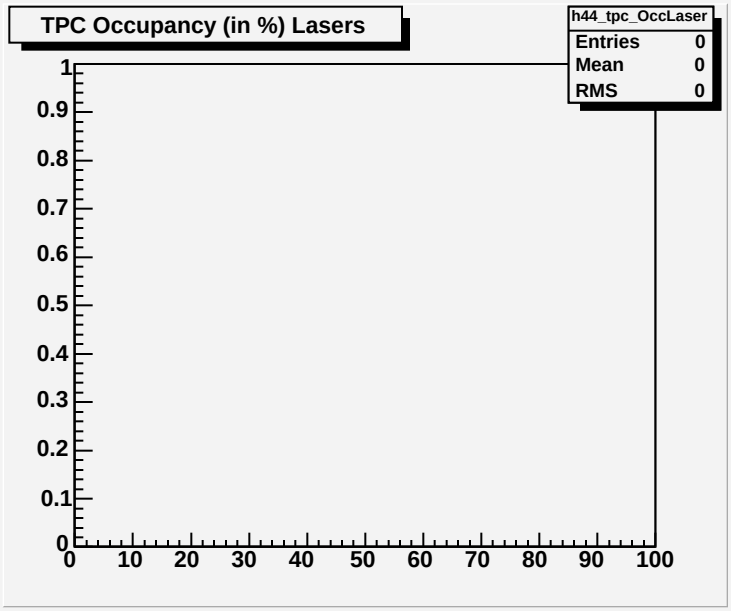

L3 Track Psi
h64_l3_psi
Entries 1976164
Mean 0.06432
RMS 1.579
8000
-3 -2 -1 0 1 2 3

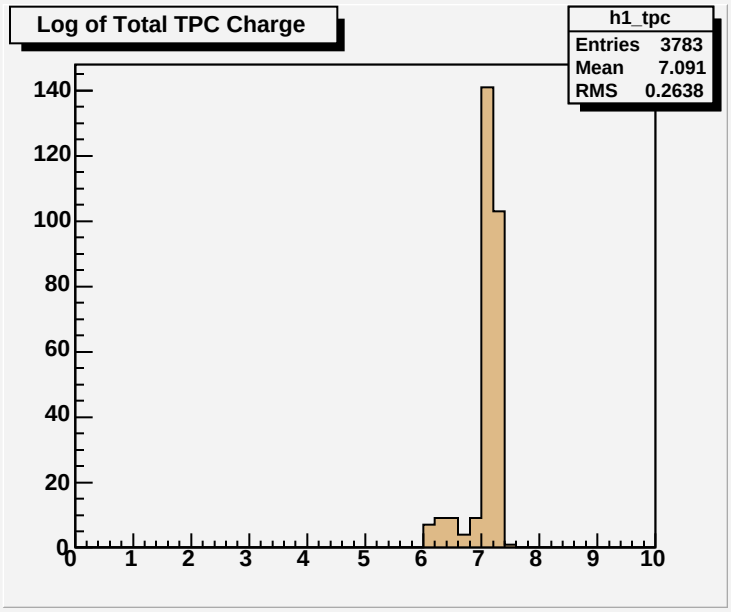

L3 Track Z0
h65_l3_trk_vertex
Entries 1976164
Mean 0.3596
RMS 100.6
5000
0
-200 -150 -100 -50 0 50 100 150 200

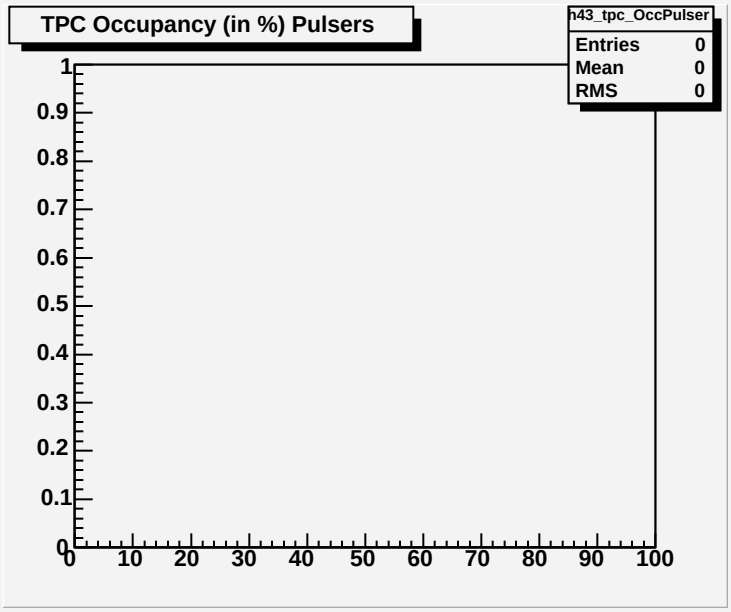

Log of Event Size
h0_evt_size
Entries 3783
Mean 5.827
RMS 0.1372

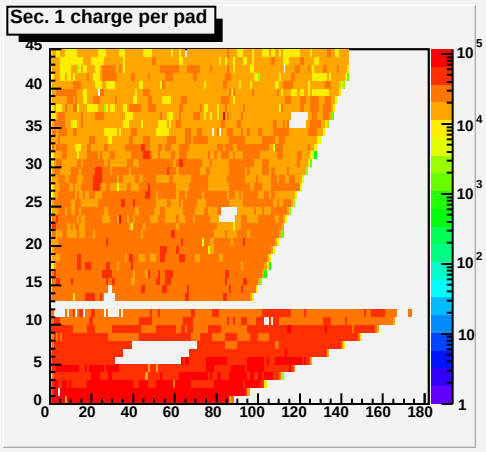

TPC Occupancy (in %)
h3_tpc
Entries 3782
Mean 0.07712
RMS 0.2855

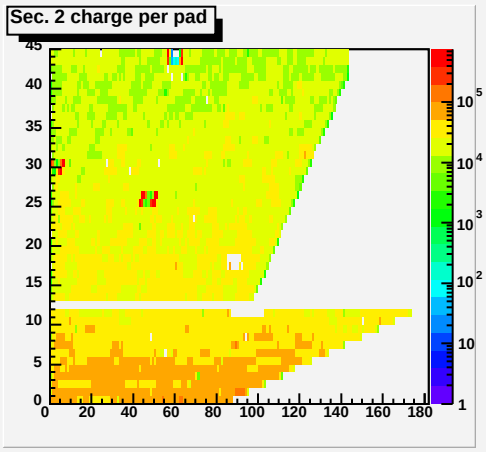

Log of TPC Buffer Size
h2_tpc
Entries 3783
Mean 5.283
RMS 0.2832

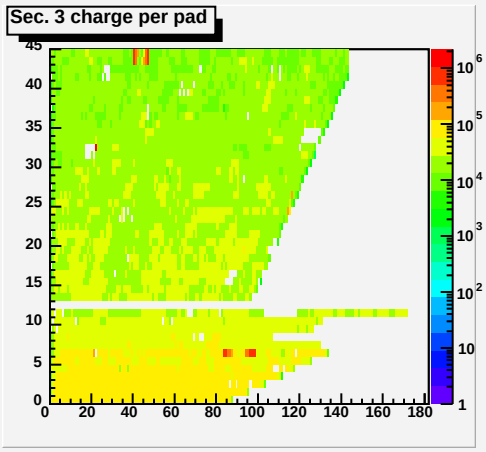

TPC Occupancy (in %) Lasers
h44_tpc_OccLaser
Entries 0
Mean 0
RMS 0

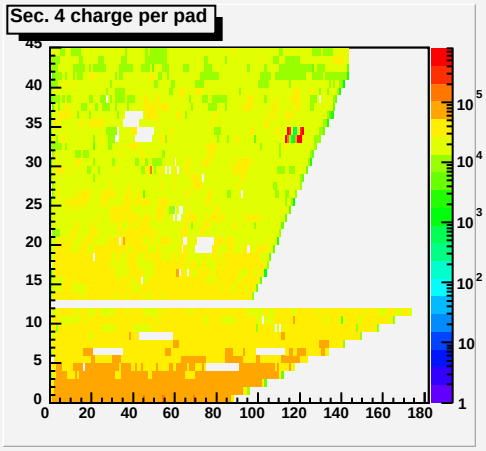

Log of Total TPC Charge
h1_tpc
Entries 3783
Mean 7.091
RMS 0.2638

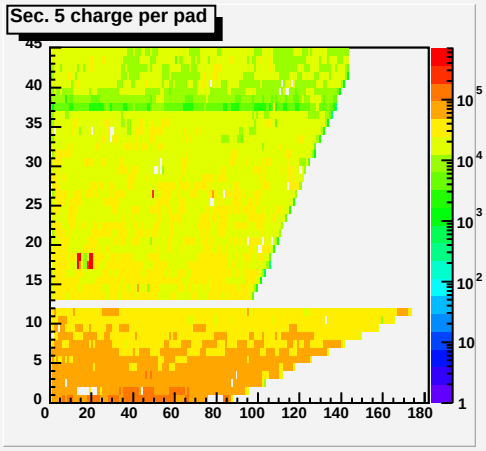

TPC Occupancy (in %) Pulsers
h43_tpc_OccPulser
Entries 0
Mean 0
RMS 0

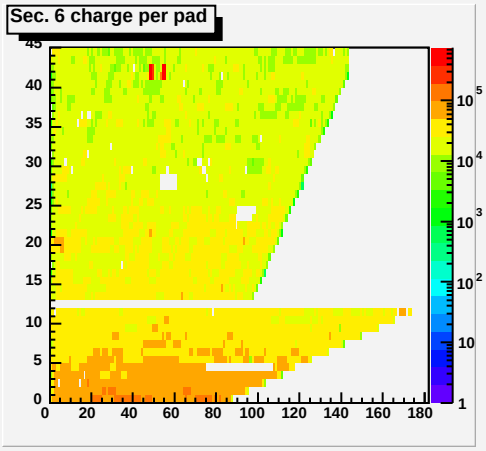

Sec. 1 charge per pad

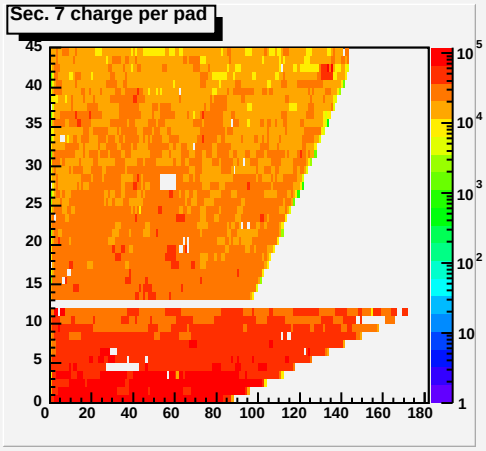

Sec. 2 charge per pad

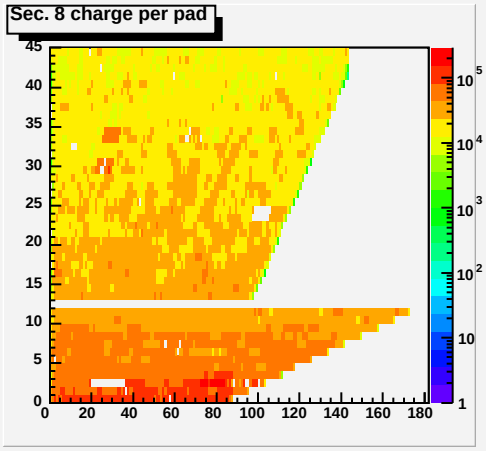

Sec. 3 charge per pad

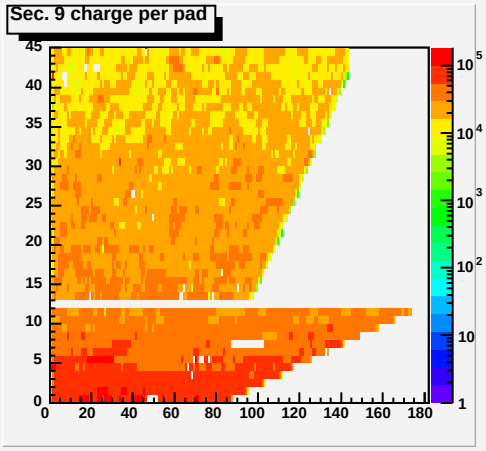

Sec. 4 charge per pad

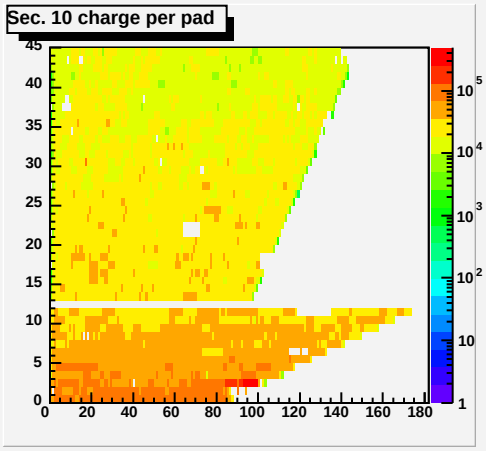

Sec. 5 charge per pad

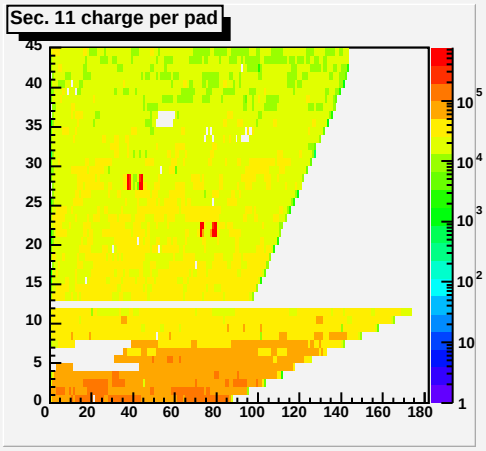

Sec. 6 charge per pad

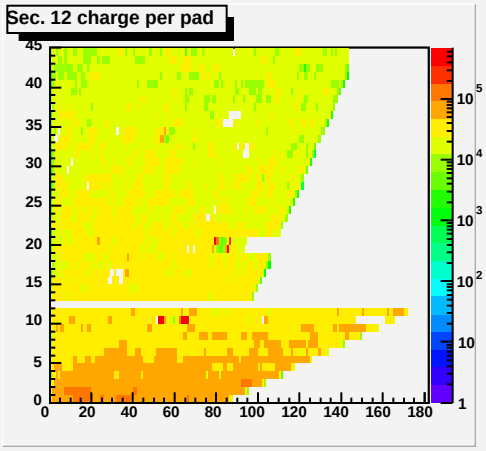

Sec. 7 charge per pad

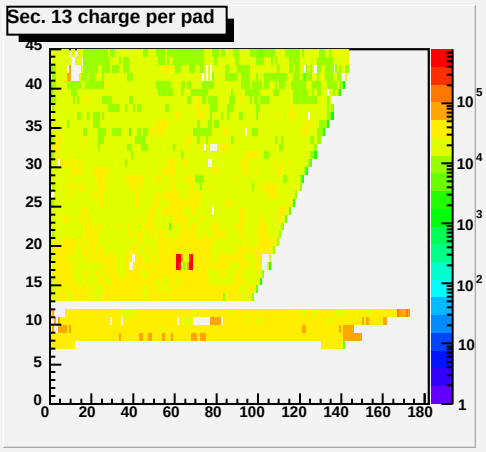

Sec. 8 charge per pad

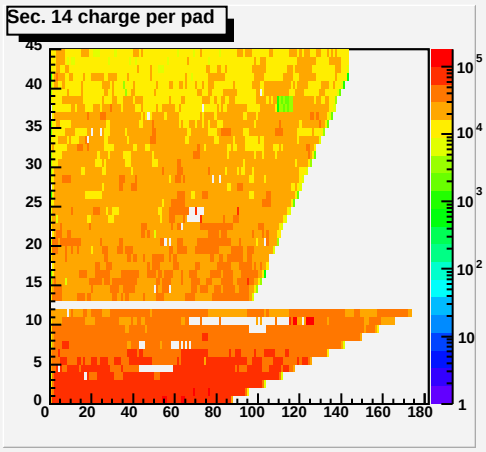

Sec. 9 charge per pad

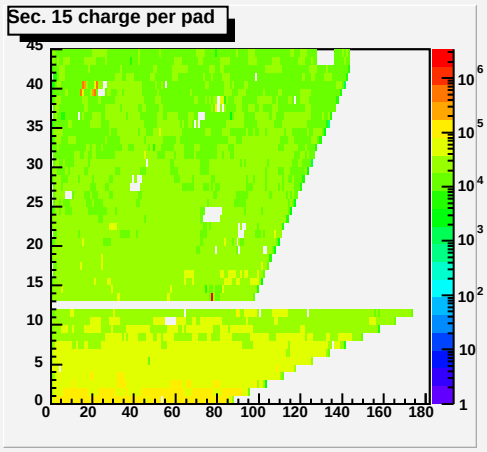

Sec. 10 charge per pad

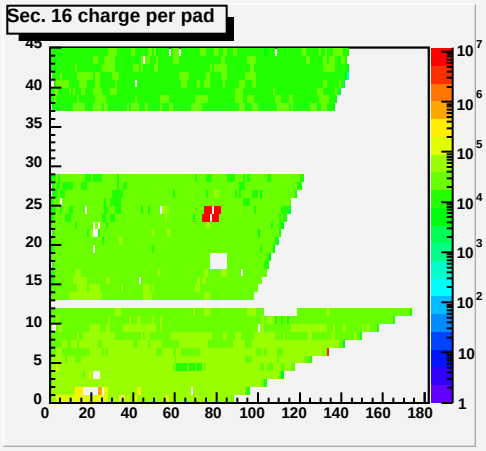

Sec. 11 charge per pad

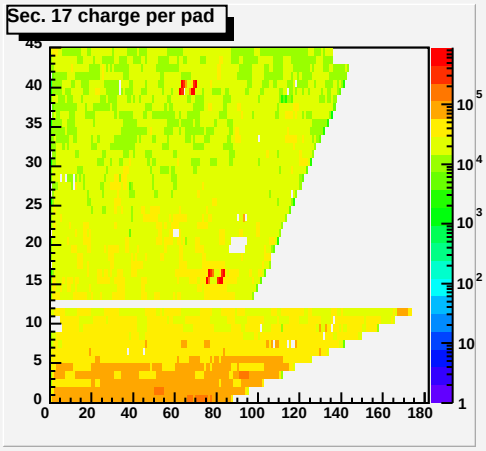

Sec. 12 charge per pad

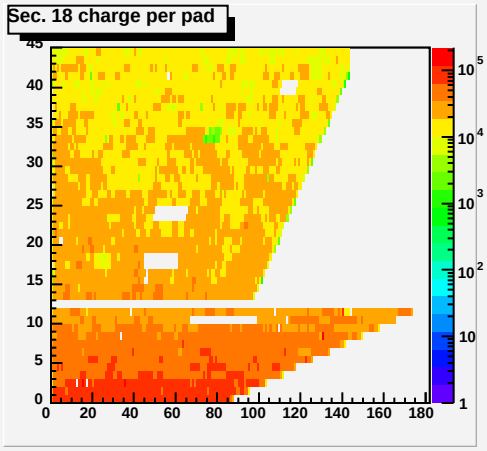

Sec. 13 charge per pad

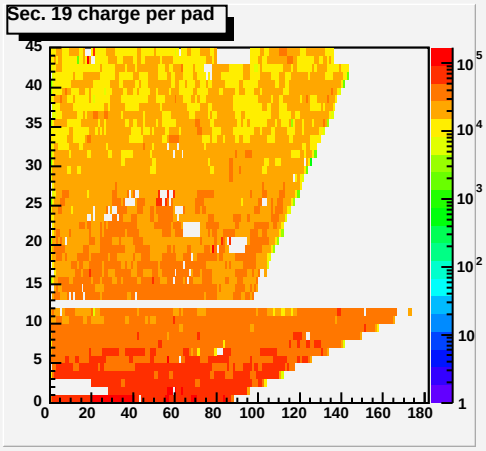

Sec. 14 charge per pad

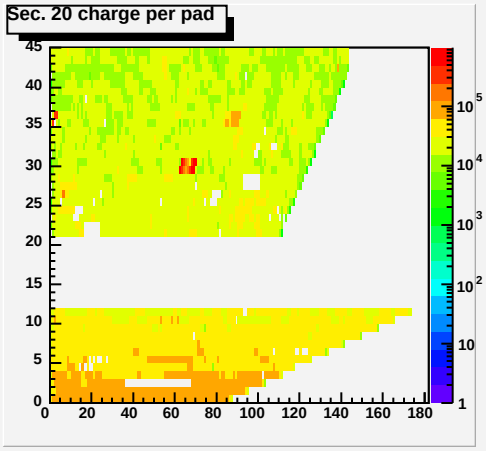

Sec. 15 charge per pad

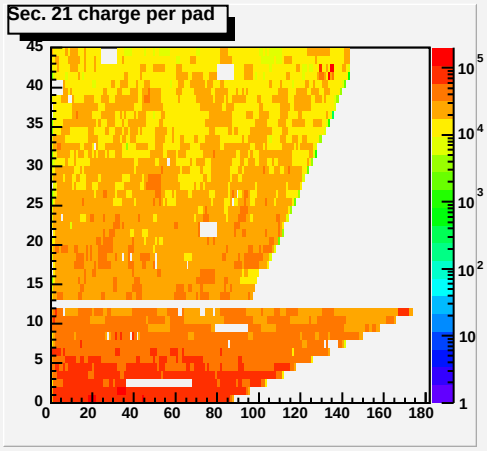

Sec. 16 charge per pad

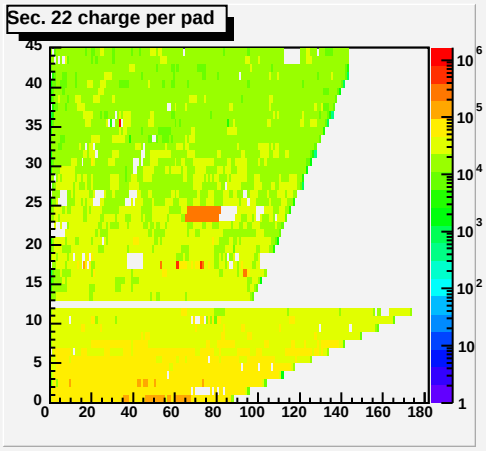

Sec. 17 charge per pad

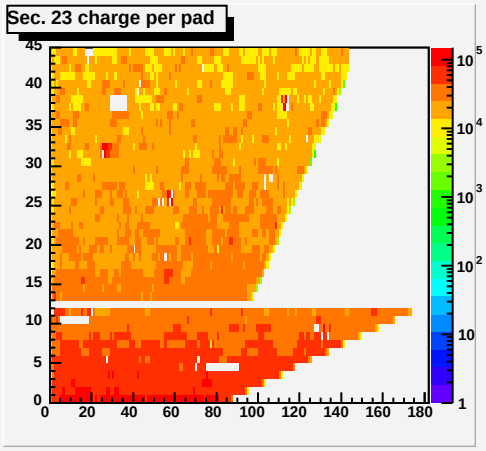

Sec. 18 charge per pad

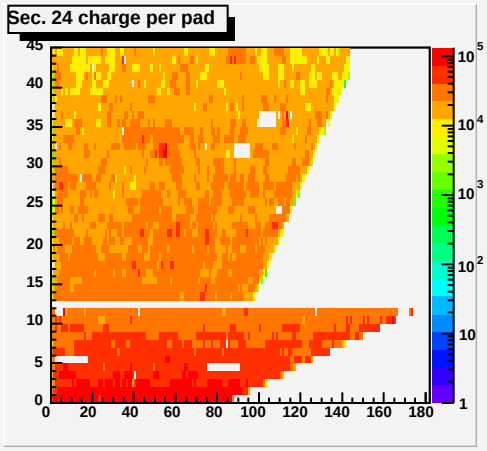

Sec. 19 charge per pad

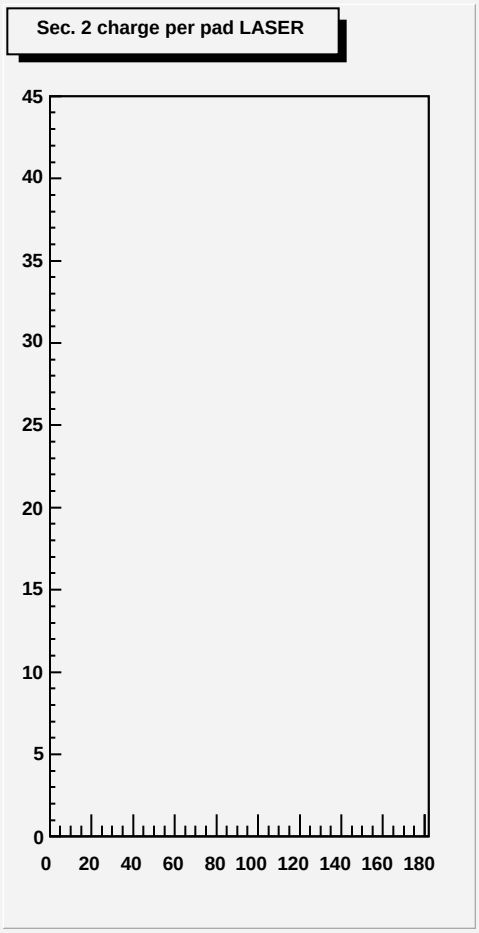

Sec. 20 charge per pad


Sec. 21 charge per pad


Sec. 22 charge per pad


Sec. 23 charge per pad


Sec. 24 charge per pad


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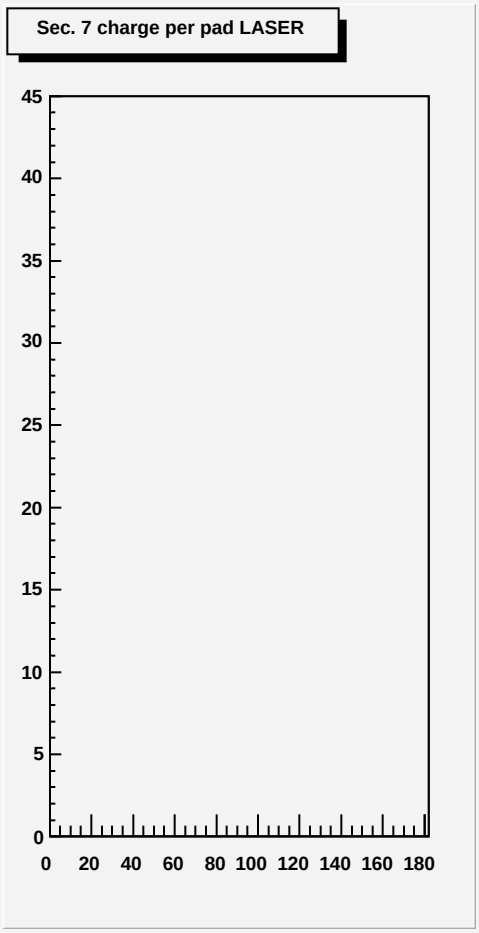
0
0 20 40 60 80 100 120 140 160 180


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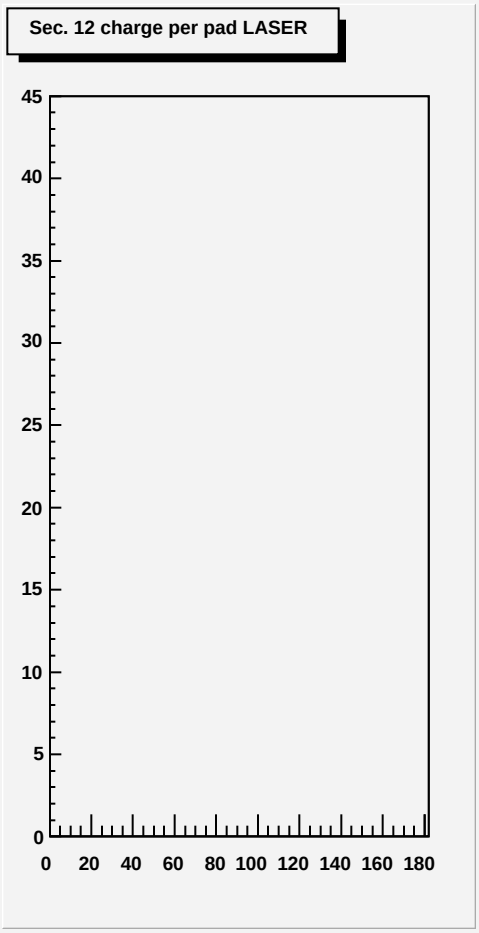
0 20 40 60 80 100 120 140 160 180


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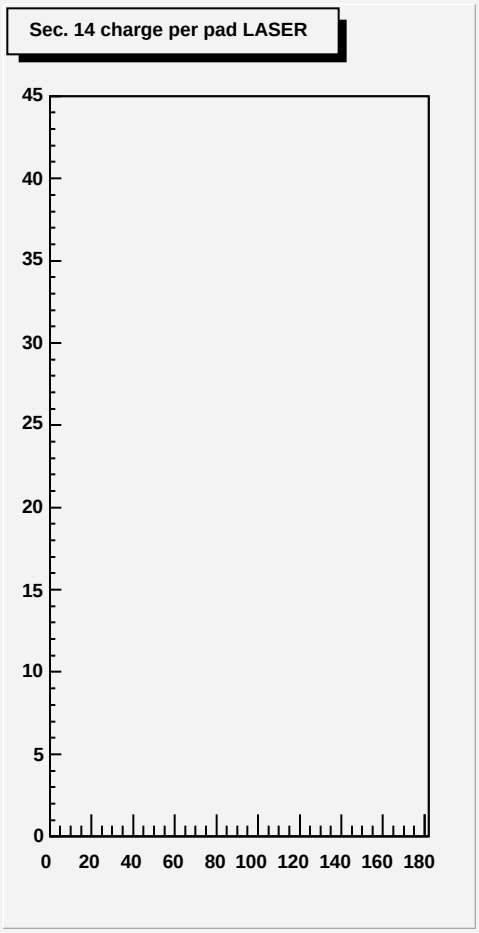
0 20 40 60 80 100 120 140 160 180


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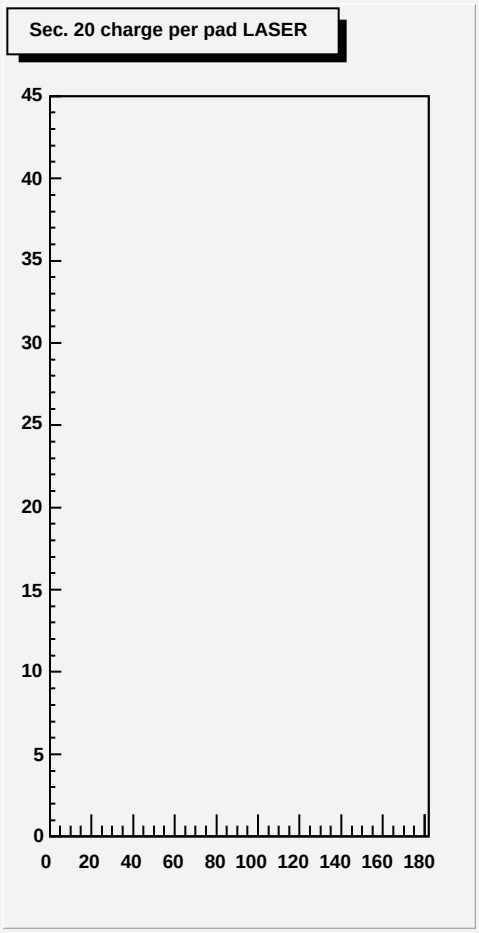
0 20 40 60 80 100 120 140 160 180


Sec. 20 charge per pad LASER
45
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35
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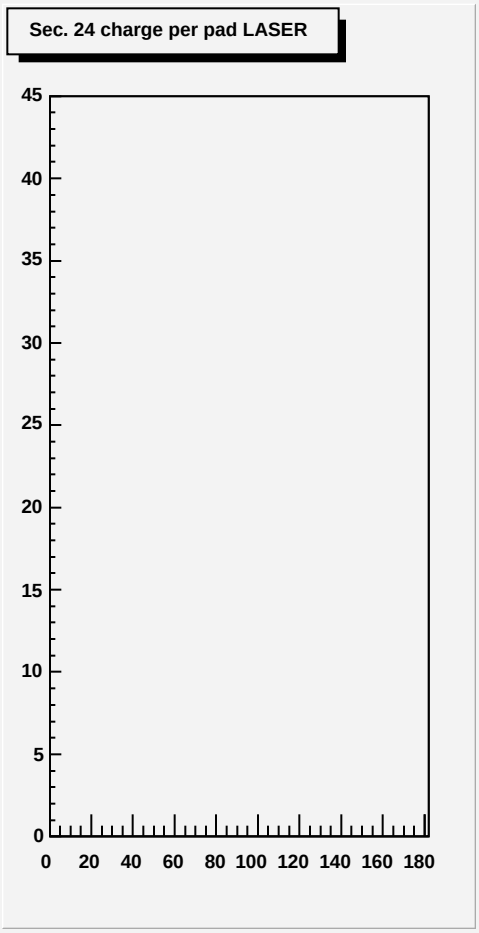
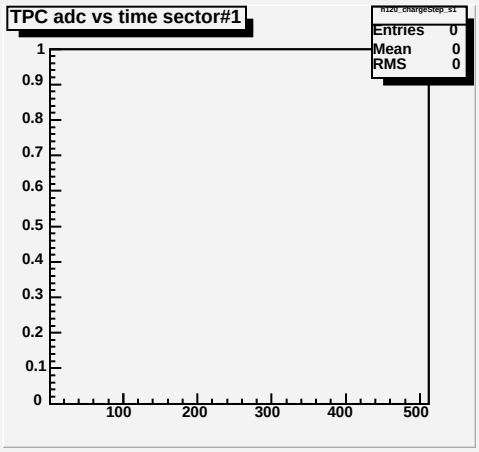
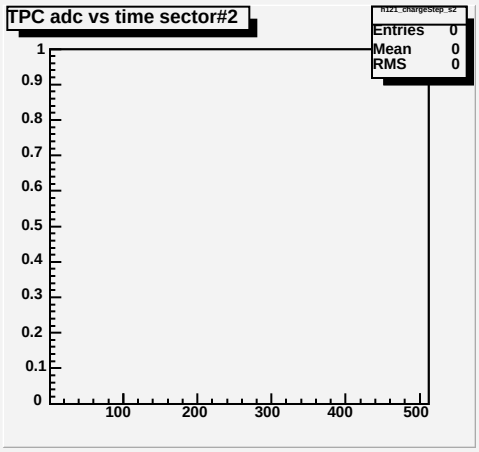
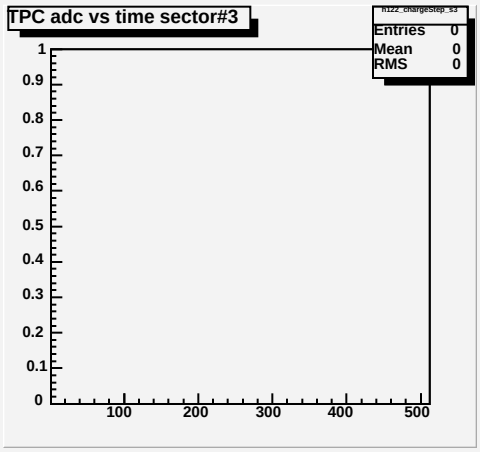
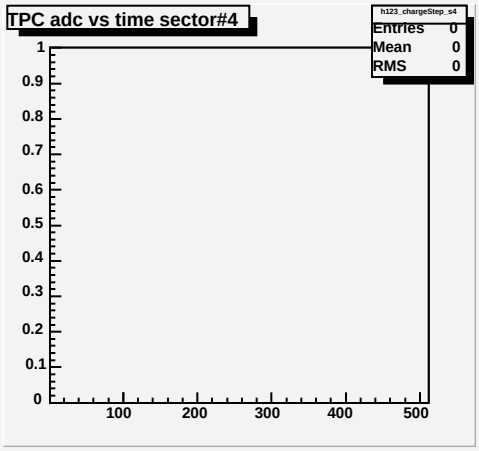
0 20 40 60 80 100 120 140 160 180

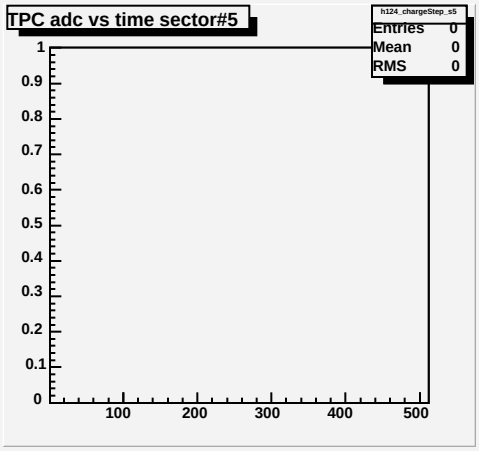

Sec. 24 charge per pad LASER
45
40
35
30
25
20
15
10
5
0
0 20 40 60 80 100 120 140 160 180

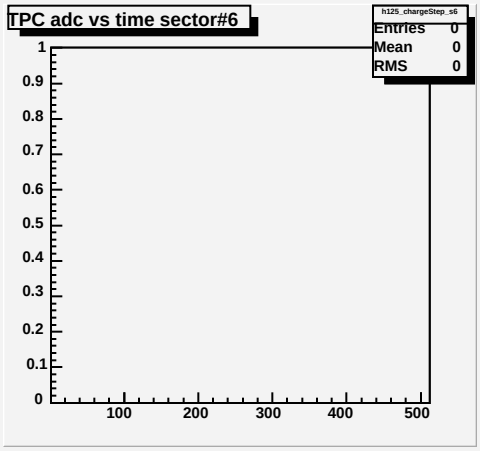

TPC adc vs time sector#1
h120_chargeStep_s1
Entries 0
Mean 0
RMS 0

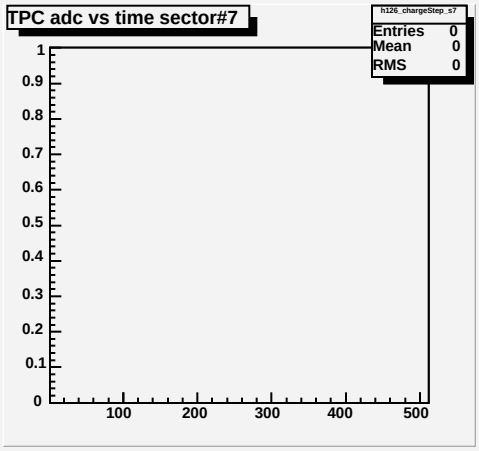

TPC adc vs time sector#2
h121_chargeStep_s2
Entries 0
Mean 0
RMS 0

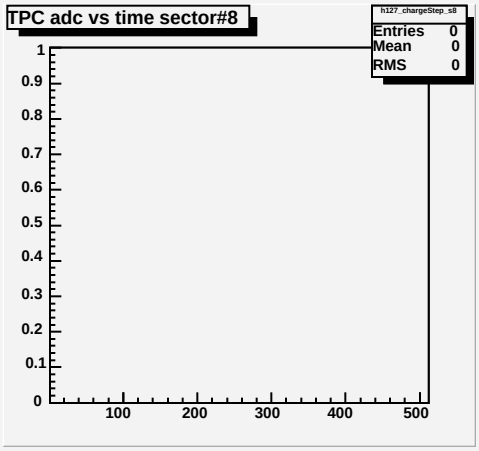

TPC adc vs time sector#3
h122_chargeStep_s3
Entries 0
Mean 0
RMS 0

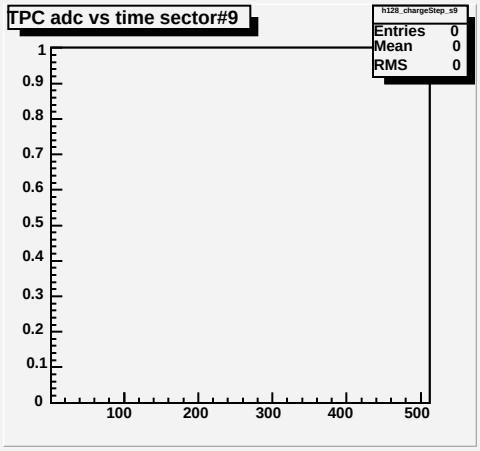

TPC adc vs time sector#4
h123_chargeStep_s4
Entries 0
Mean 0
RMS 0

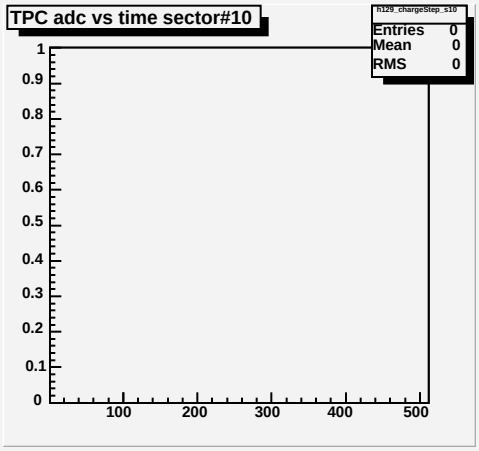

TPC adc vs time sector#5
h124_chargeStep_s5
Entries 0
Mean 0
RMS 0

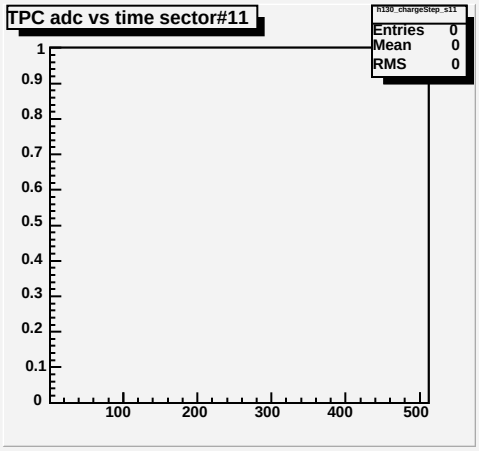

TPC adc vs time sector#6
h125_chargeStep_s6
Entries 0
Mean 0
RMS 0

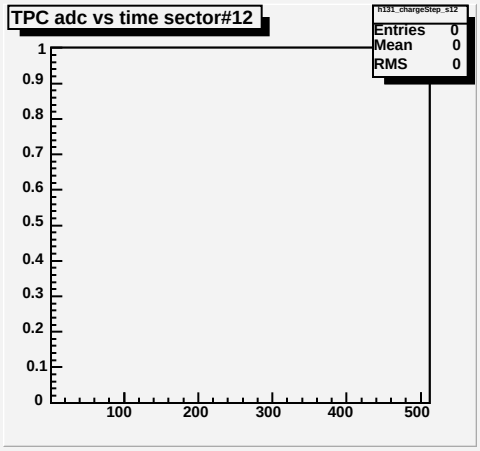

TPC adc vs time sector#7
h126_chargeStep_s7
Entries 0
Mean 0
RMS 0

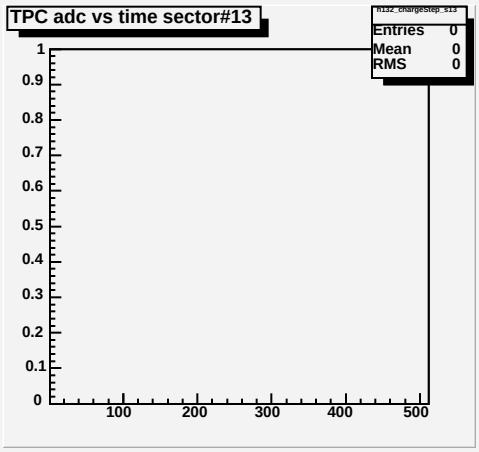

TPC adc vs time sector#8
h127_chargeStep_s8
Entries 0
Mean 0
RMS 0

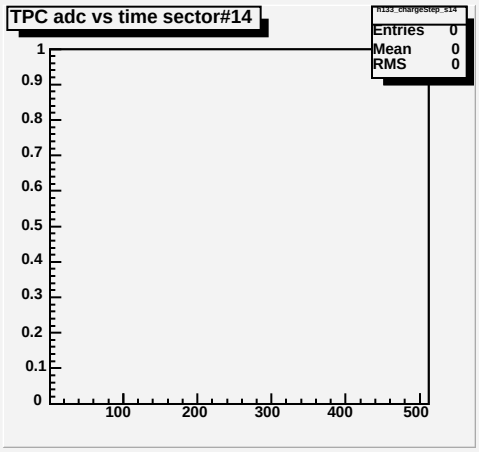

TPC adc vs time sector#9
h128_chargeStep_s9
Entries 0
Mean 0
RMS 0

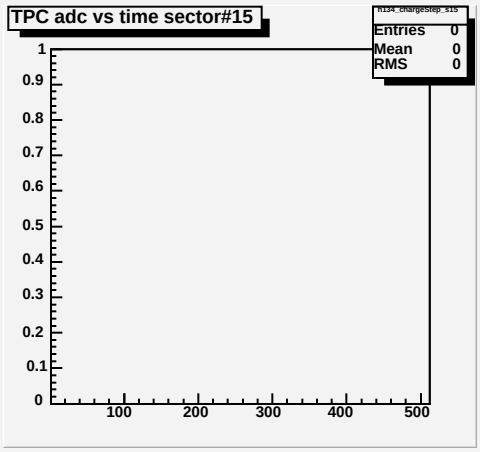

TPC adc vs time sector#10
h129_chargeStep_s10
Entries 0
Mean 0
RMS 0

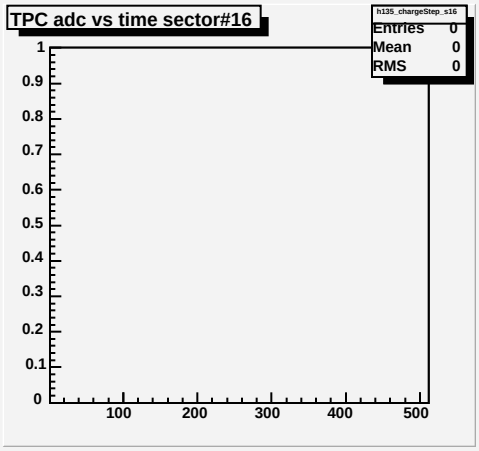

TPC adc vs time sector#11
h130_chargeStep_s11
Entries 0
Mean 0
RMS 0

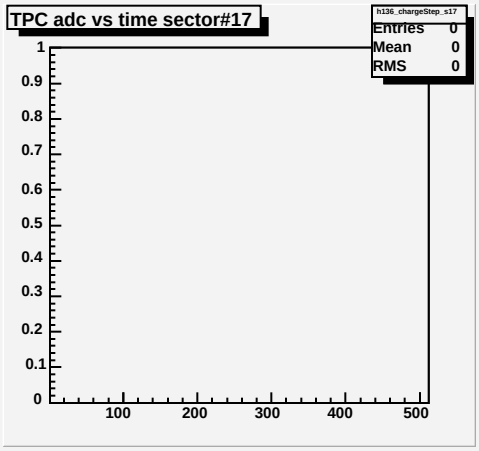

TPC adc vs time sector#12
h131_chargeStep_s12
Entries 0
Mean 0
RMS 0

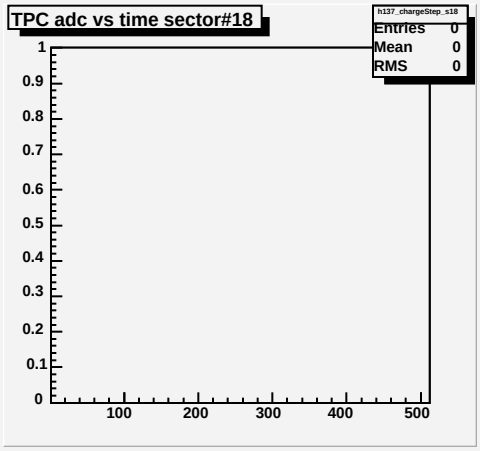

TPC adc vs time sector#13
h132_chargeStep_s13
Entries 0
Mean 0
RMS 0

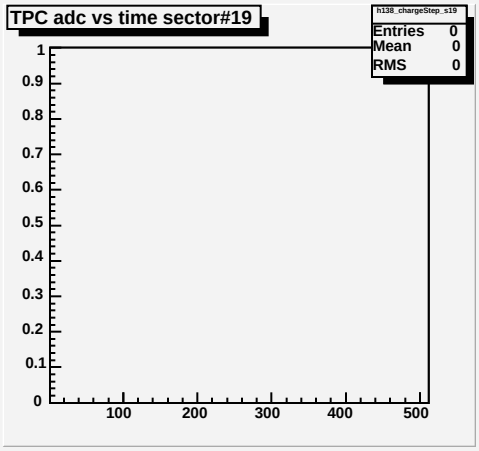

TPC adc vs time sector#14
h133_chargeStep_s14
Entries 0
Mean 0
RMS 0

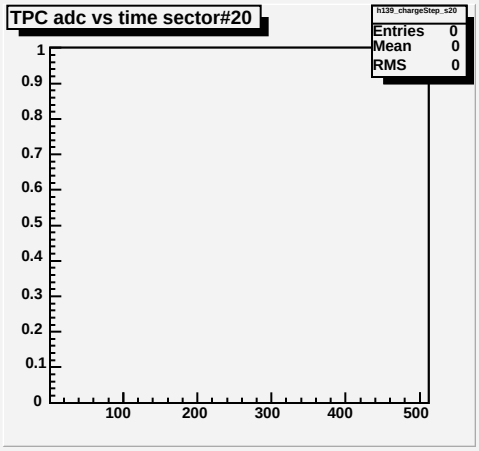

TPC adc vs time sector#15
h134_chargeStep_s15
Entries 0
Mean 0
RMS 0

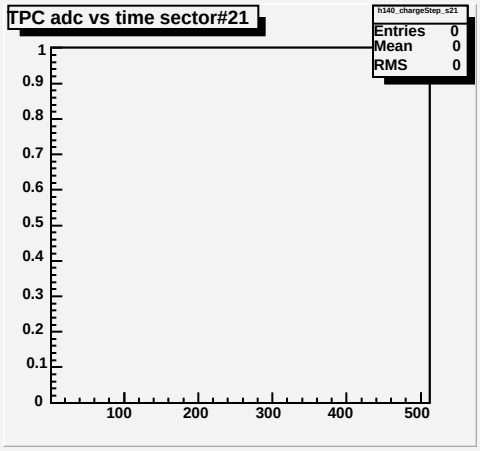

TPC adc vs time sector#16
h135_chargeStep_s16
Entries 0
Mean 0
RMS 0

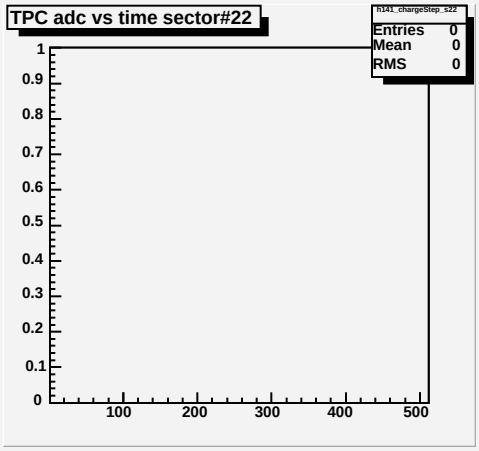

TPC adc vs time sector#17
h136_chargeStep_s17
Entries 0
Mean 0
RMS 0

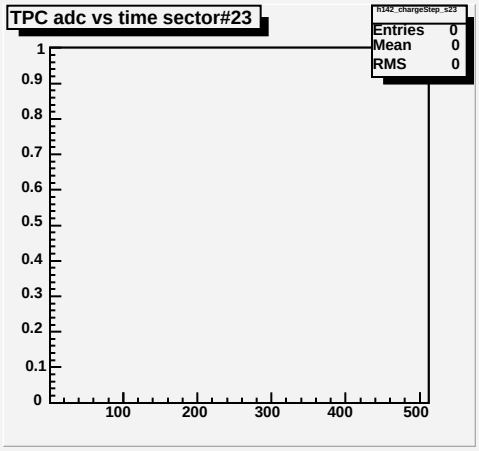

TPC adc vs time sector#18
h137_chargeStep_s18
Entries 0
Mean 0
RMS 0

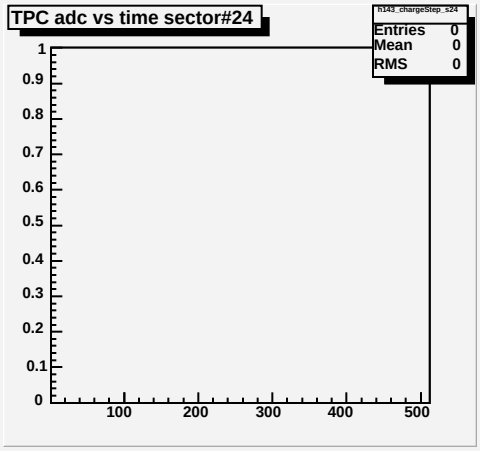

TPC adc vs time sector#19
h138_chargeStep_s19
Entries 0
Mean 0
RMS 0

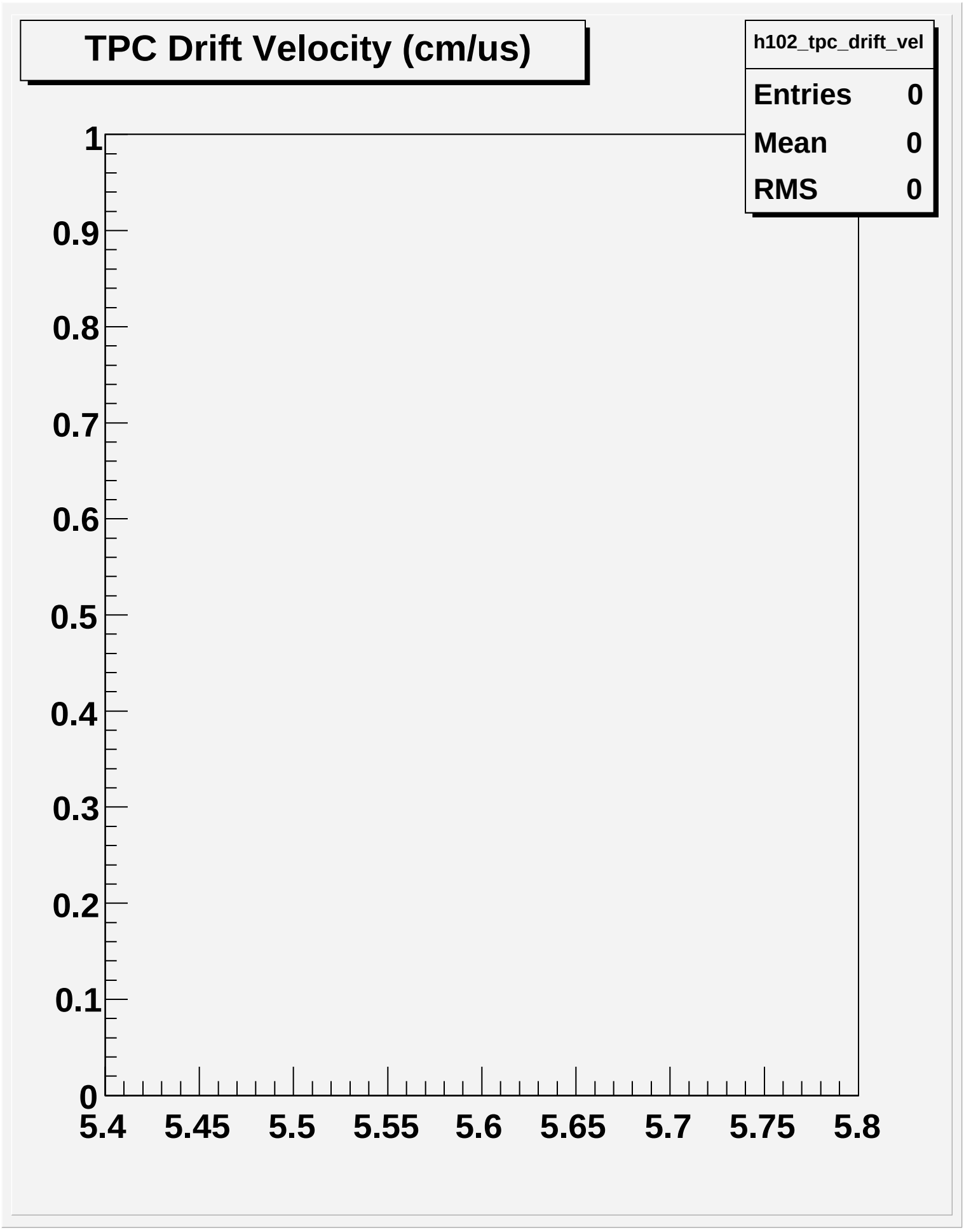

TPC adc vs time sector#20
h139_chargeStep_s20
Entries 0
Mean 0
RMS 0

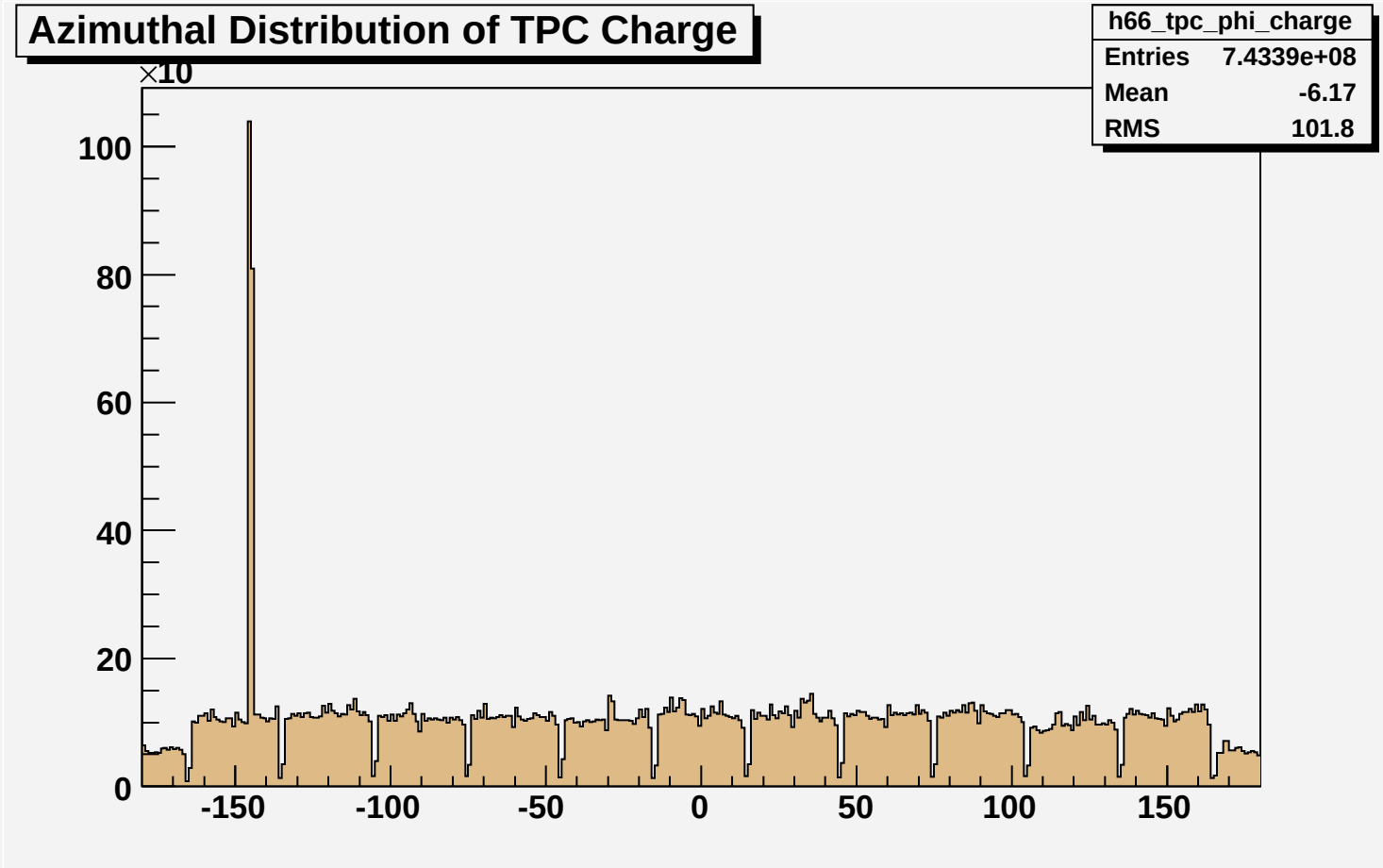

TPC adc vs time sector#21
h140_chargeStep_s21
Entries 0
Mean 0
RMS 0

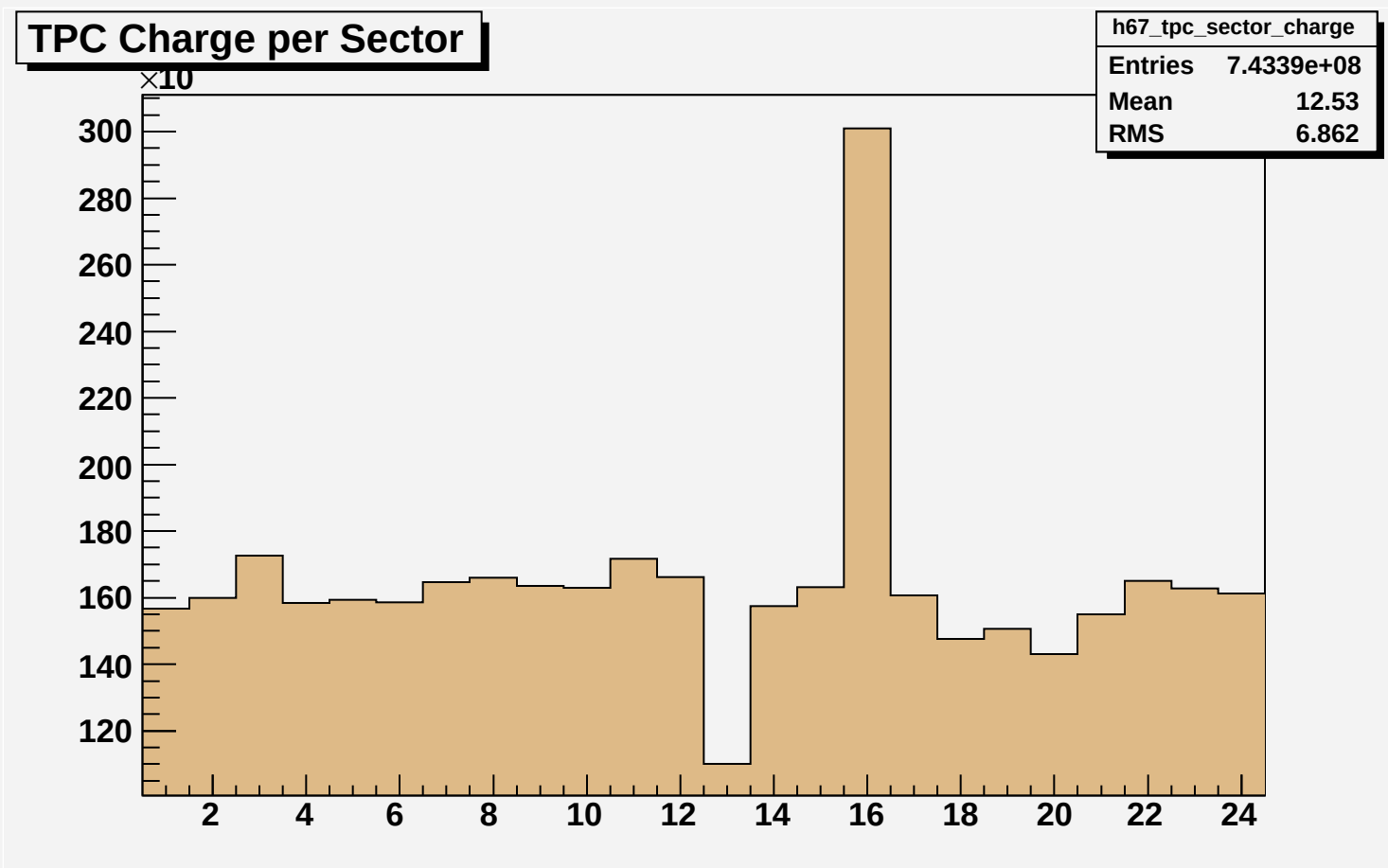

TPC adc vs time sector#22
h141_chargeStep_s22
Entries 0
Mean 0
RMS 0

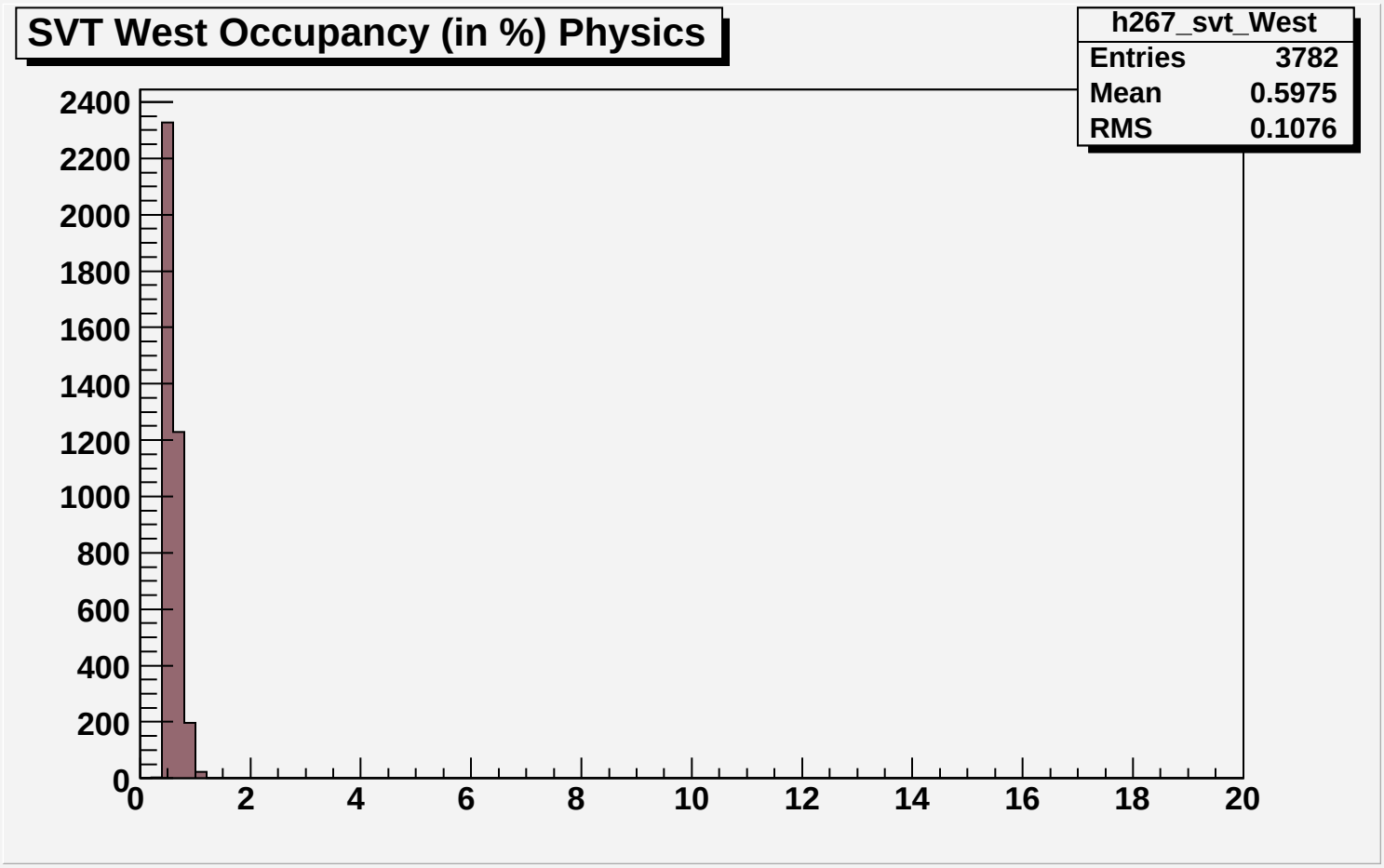

TPC adc vs time sector#23
h142_chargeStep_s23
Entries 0
Mean 0
RMS 0

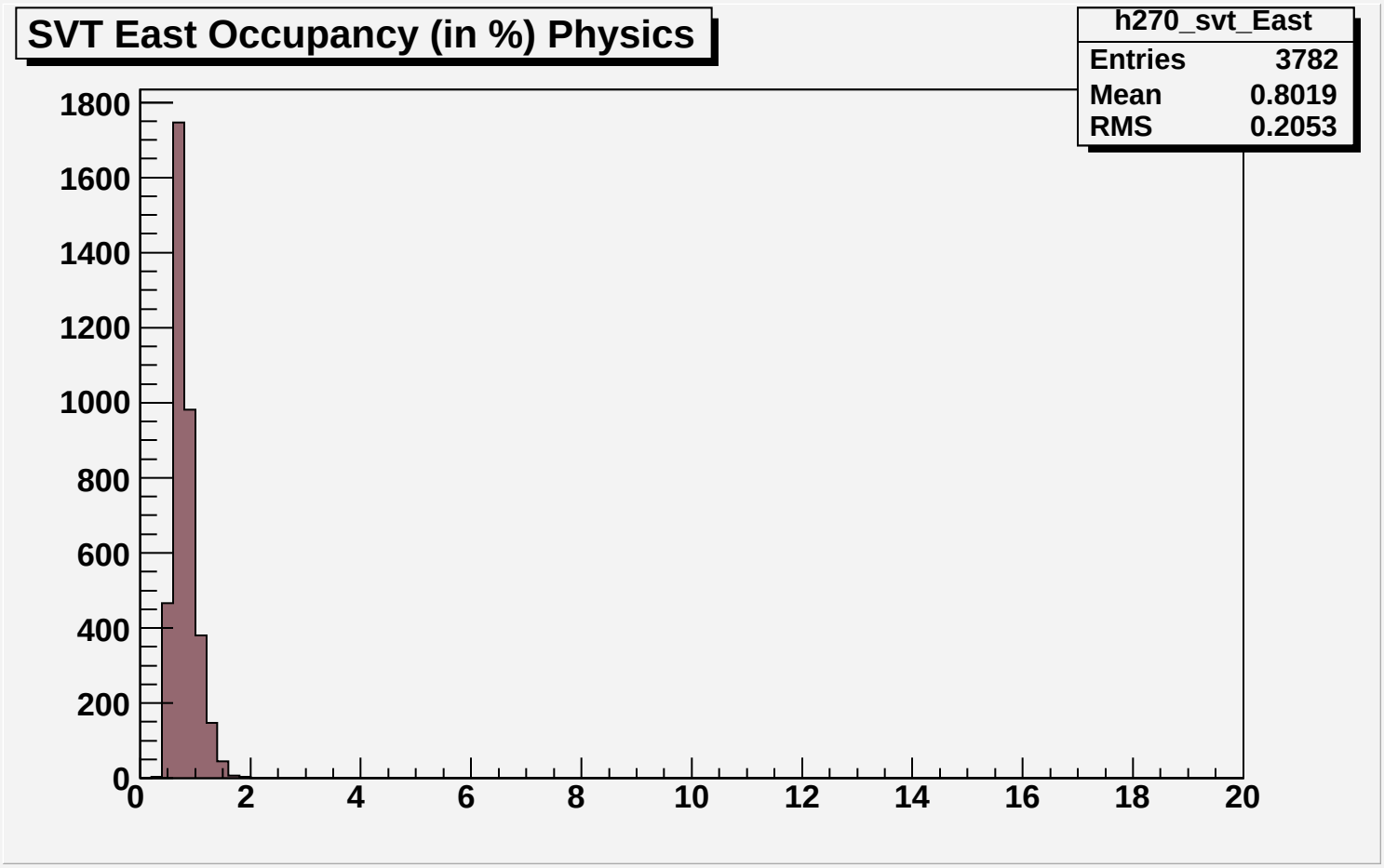

TPC adc vs time sector#24
h143_chargeStep_s24
Entries 0
Mean 0
RMS 0

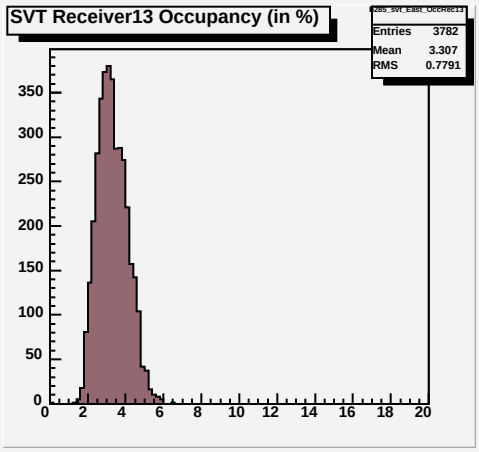

TPC Drift Velocity (cm/us)
h102_tpc_drift_vel
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5.4
5.45
5.5
5.55
5.6
5.65
5.7
5.75
5.8

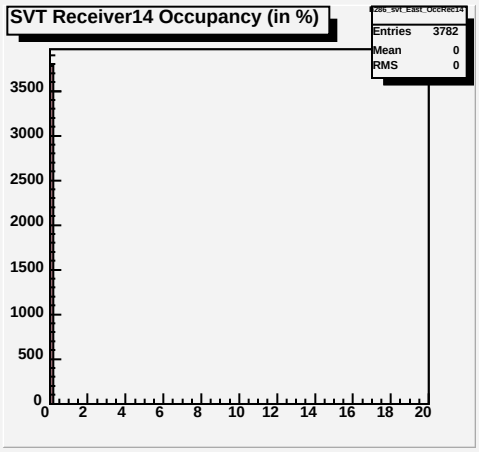

Azimuthal Distribution of TPC Charge
h66_tpc_phi_charge
Entries 7.4339e+08
Mean -6.17
RMS 101.8
×10
100
80
60
40
20
0
-150
-100
-50
0
50
100
150

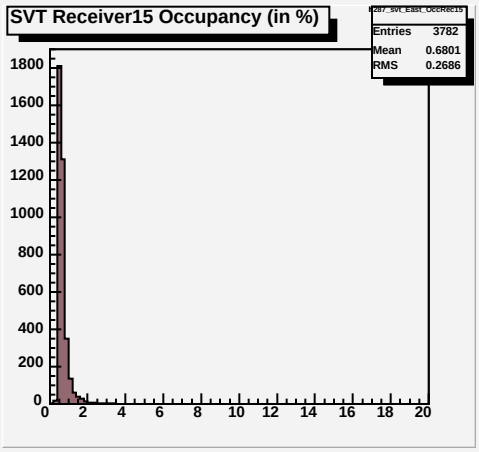

TPC Charge per Sector
h67_tpc_sector_charge
Entries 7.4339e+08
Mean 12.53
RMS 6.862
×10
300
280
260
240
220
200
180
160
140
120
2
4
6
8
10
12
14
16
18
20
22
24

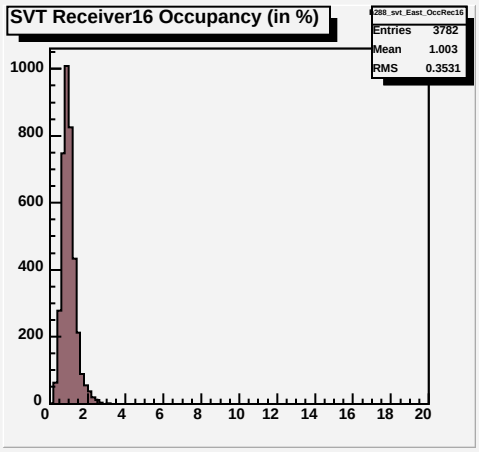

SVT West Occupancy (in %) Physics
h267_svt_West
Entries 3782
Mean 0.5975
RMS 0.1076
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
18
20

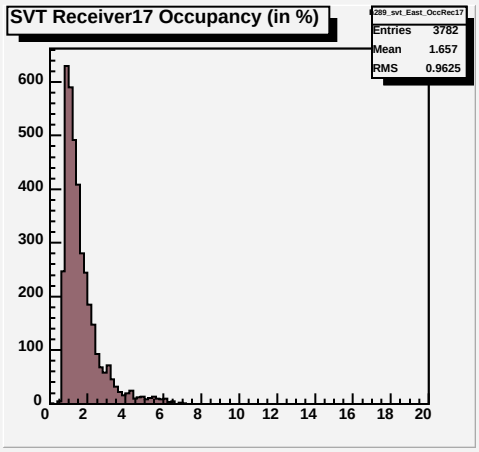

SVT East Occupancy (in %) Physics
h270_svt_East
Entries 3782
Mean 0.8019
RMS 0.2053
1800
1600
1400
1200
1000
800
600
400
200
0
0
2
4
6
8
10
12
14
16
18
20

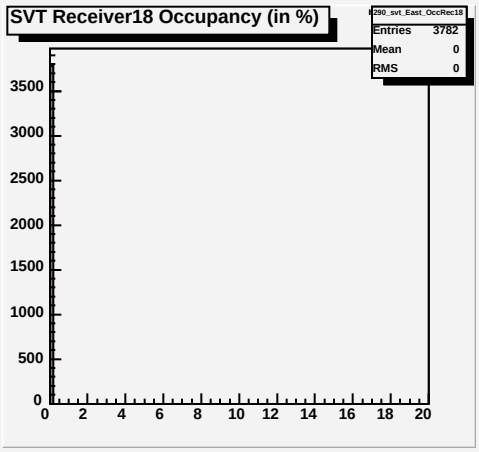

SVT Receiver13 Occupancy (in %)
h285_svt_East_OccRec13
Entries 3782
Mean 3.307
RMS 0.7791

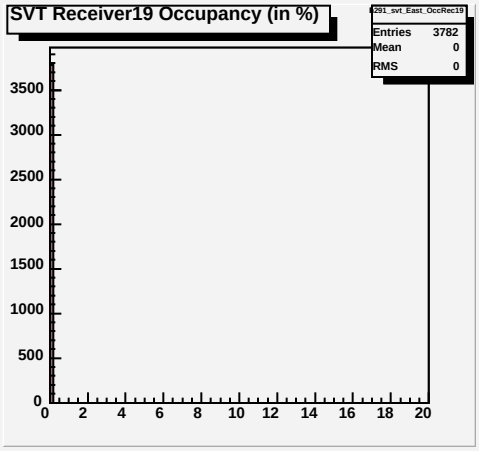

SVT Receiver14 Occupancy (in %)
h286_svt_East_OccRec14
Entries 3782
Mean 0
RMS 0

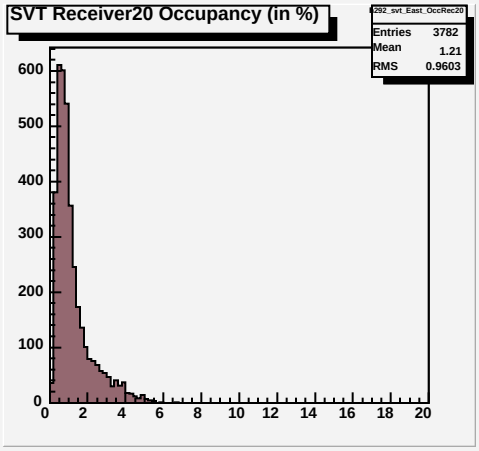

SVT Receiver15 Occupancy (in %)
h287_svt_East_OccRec15
Entries 3782
Mean 0.6801
RMS 0.2686

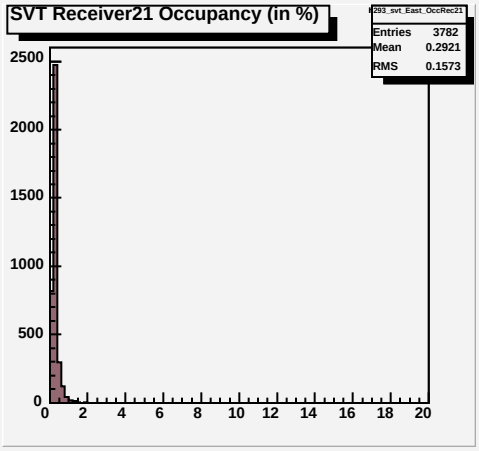

SVT Receiver16 Occupancy (in %)
h288_svt_East_OccRec16
Entries 3782
Mean 1.003
RMS 0.3531

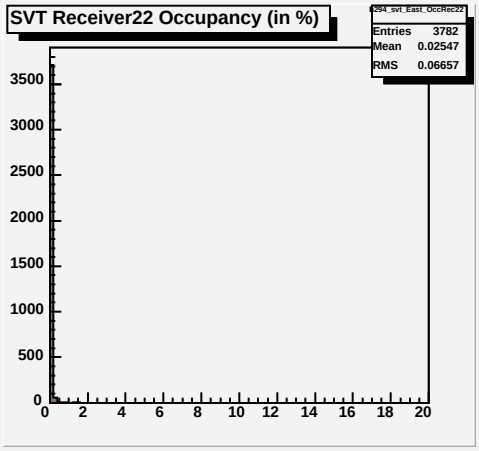

SVT Receiver17 Occupancy (in %)
h289_svt_East_OccRec17
Entries 3782
Mean 1.657
RMS 0.9625

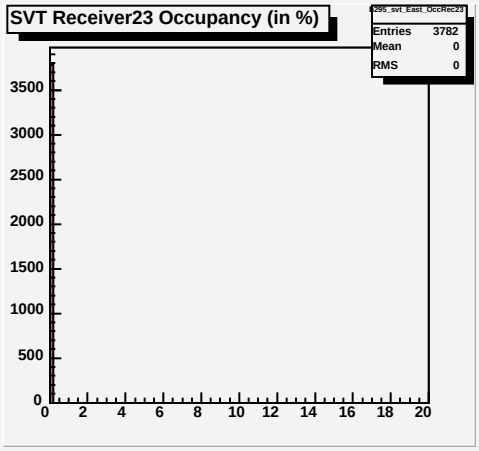

SVT Receiver18 Occupancy (in %)
h290_svt_East_OccRec18
Entries 3782
Mean 0
RMS 0

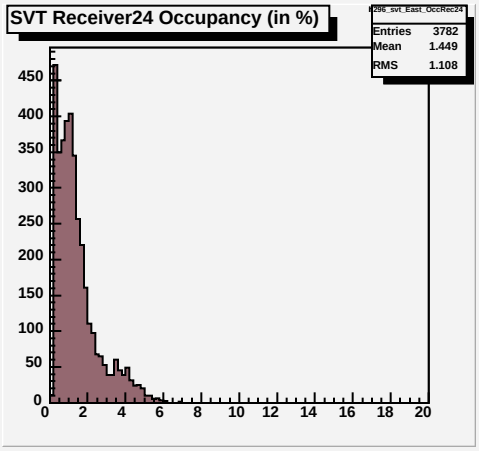

SVT Receiver19 Occupancy (in %)
h291_svt_East_OccRec19
Entries 3782
Mean 0
RMS 0

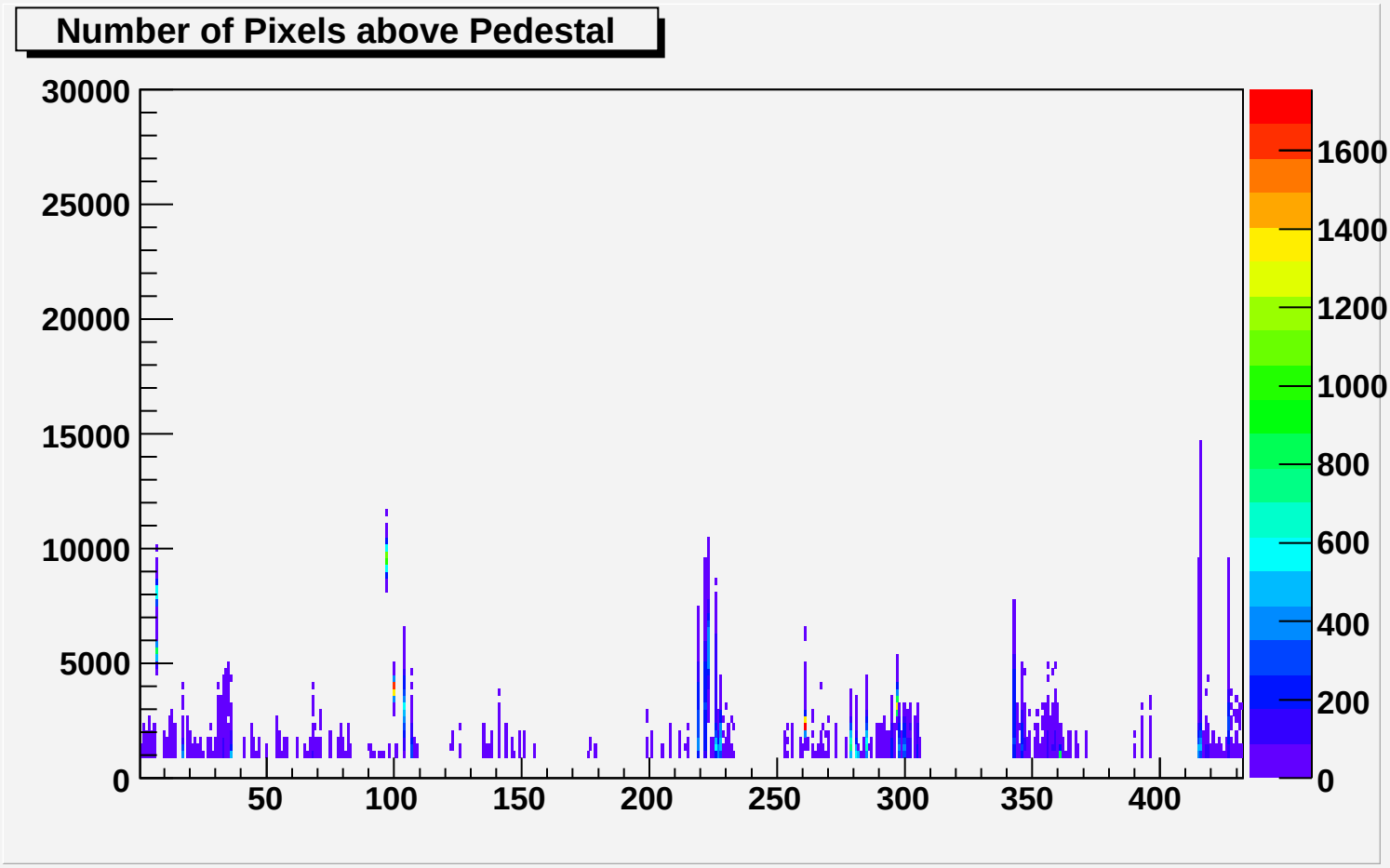

SVT Receiver20 Occupancy (in %)
h292_svt_East_OccRec20
Entries 3782
Mean 1.21
RMS 0.9603

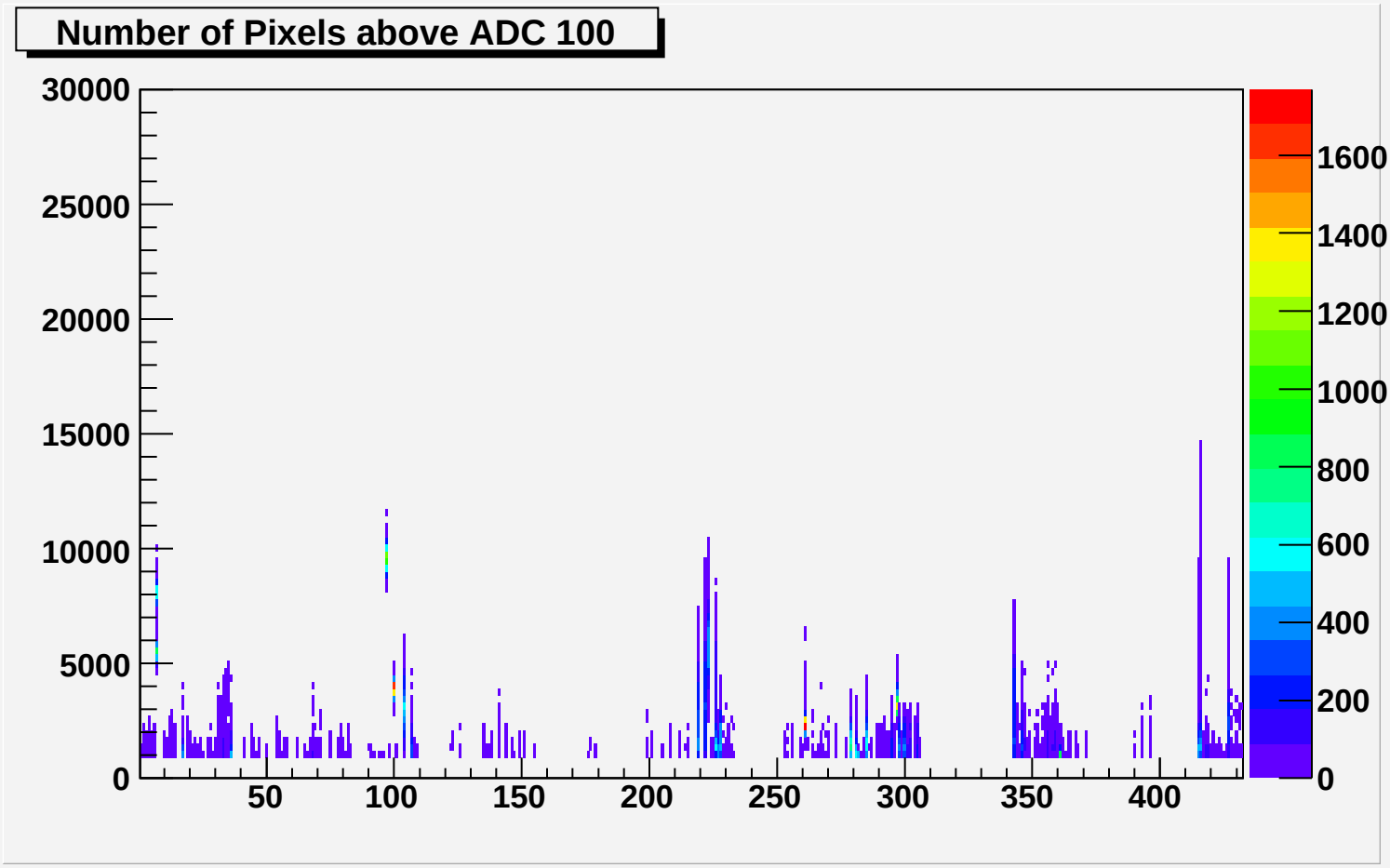

SVT Receiver21 Occupancy (in %)
h293_svt_East_OccRec21
Entries 3782
Mean 0.2921
RMS 0.1573

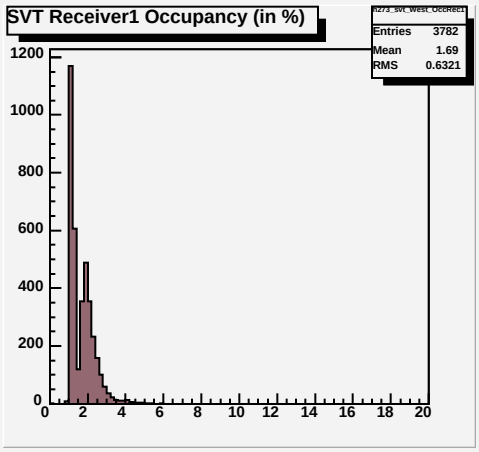

SVT Receiver22 Occupancy (in %)
h294_svt_East_OccRec22
Entries 3782
Mean 0.02547
RMS 0.06657

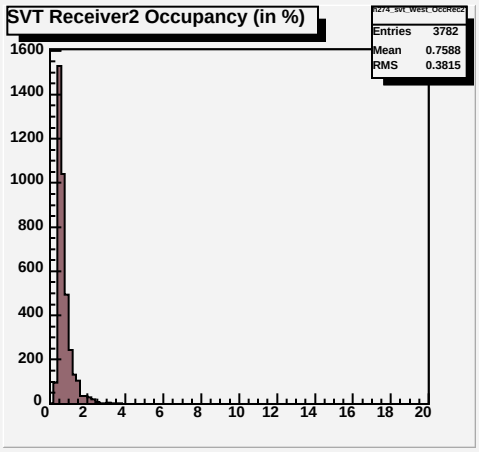

SVT Receiver23 Occupancy (in %)
h295_svt_East_OccRec23
Entries 3782
Mean 0
RMS 0

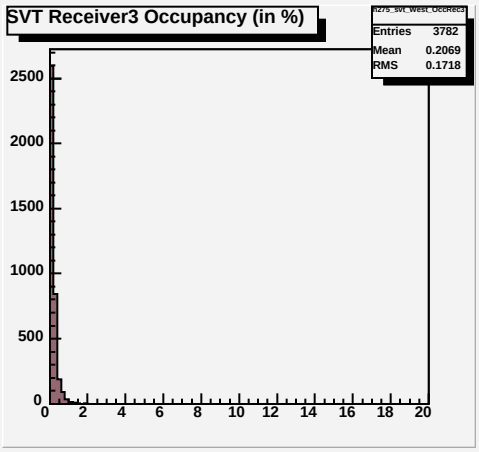

SVT Receiver24 Occupancy (in %)
h296_svt_East_OccRec24
Entries 3782
Mean 1.449
RMS 1.108

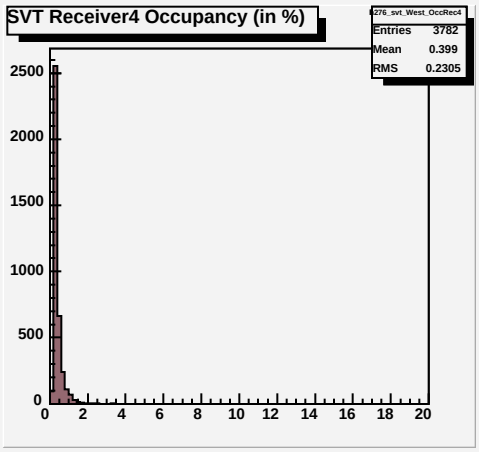

Number of Pixels above Pedestal
30000
25000
20000
15000
10000
5000
0
50
100
150
200
250
300
350
400
1600
1400
1200
1000
800
600
400
200
0

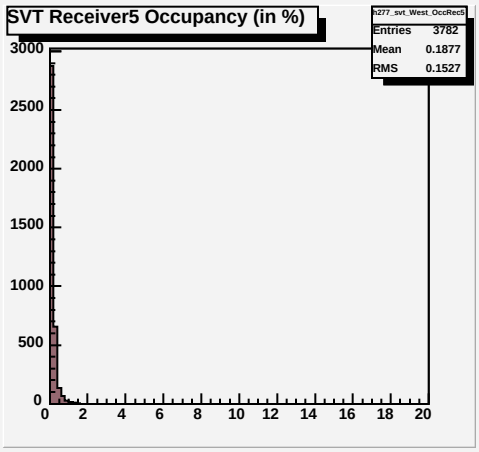

Number of Pixels above ADC 100
30000
25000
20000
15000
10000
5000
0
50
100
150
200
250
300
350
400
1600
1400
1200
1000
800
600
400
200
0

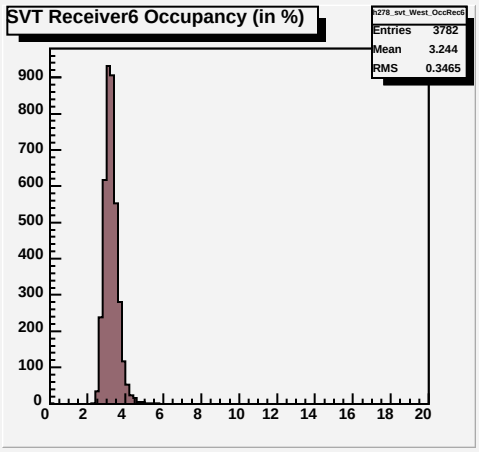

SVT Receiver1 Occupancy (in %)
h273_svt_West_OccRec1
Entries 3782
Mean 1.69
RMS 0.6321

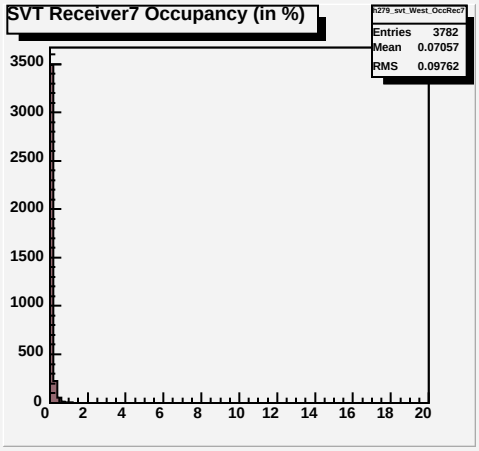

SVT Receiver2 Occupancy (in %)
h274_svt_West_OccRec2
Entries 3782
Mean 0.7588
RMS 0.3815

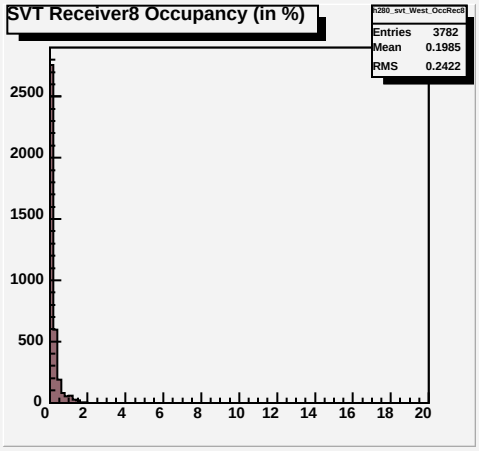

SVT Receiver3 Occupancy (in %)
h275_svt_West_OccRec3
Entries 3782
Mean 0.2069
RMS 0.1718

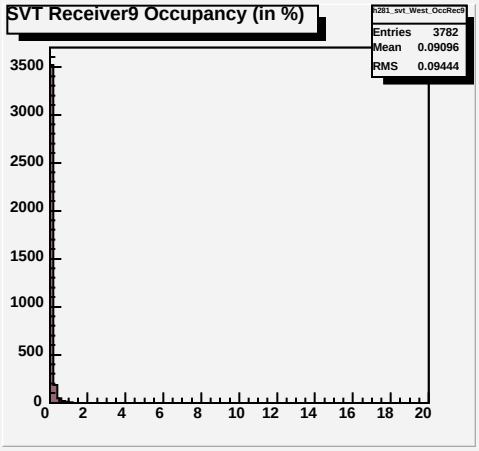

SVT Receiver4 Occupancy (in %)
h276_svt_West_OccRec4
Entries 3782
Mean 0.399
RMS 0.2305

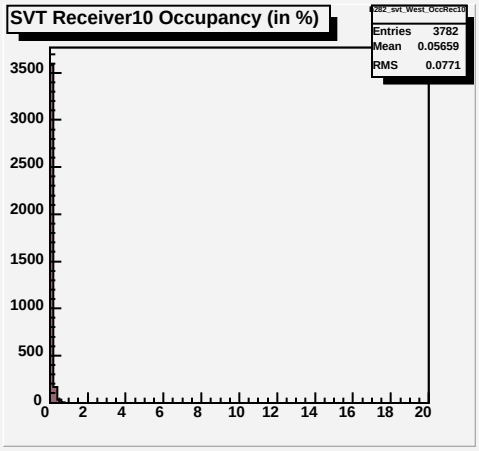

SVT Receiver5 Occupancy (in %)
h277_svt_West_OccRec5
Entries 3782
Mean 0.1877
RMS 0.1527

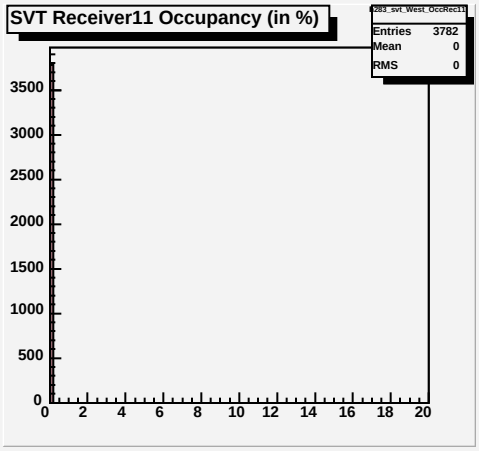

SVT Receiver6 Occupancy (in %)
h278_svt_West_OccRec6
Entries 3782
Mean 3.244
RMS 0.3465

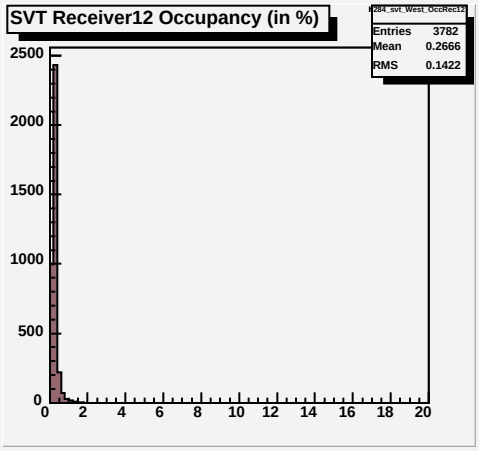

SVT Receiver7 Occupancy (in %)
h279_svt_West_OccRec7
Entries 3782
Mean 0.07057
RMS 0.09762

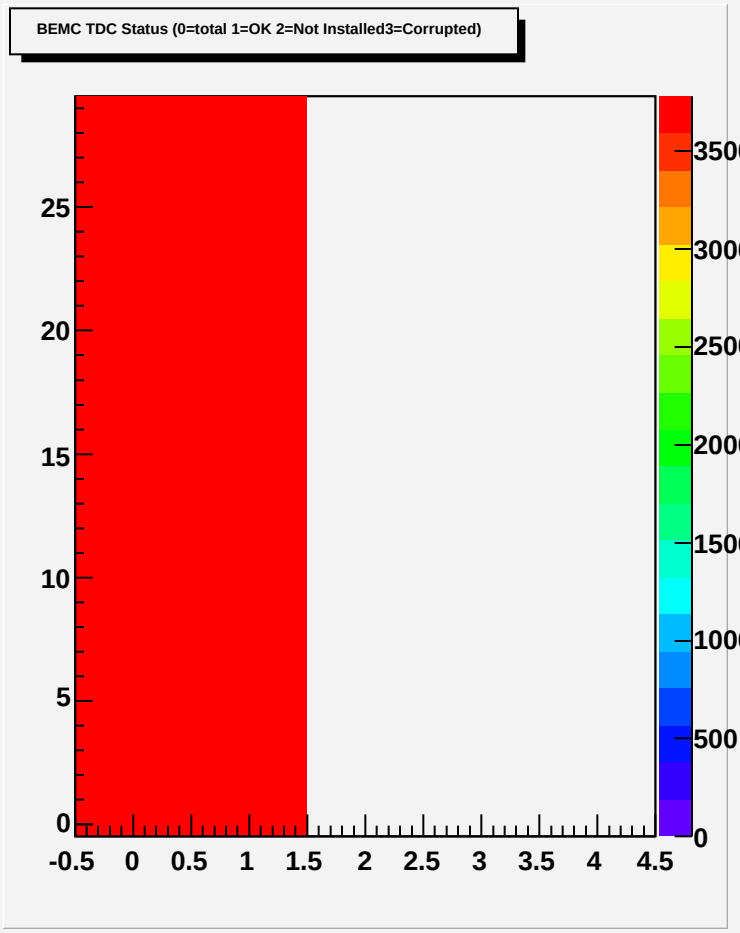

SVT Receiver8 Occupancy (in %)
h280_svt_West_OccRec8
Entries 3782
Mean 0.1985
RMS 0.2422

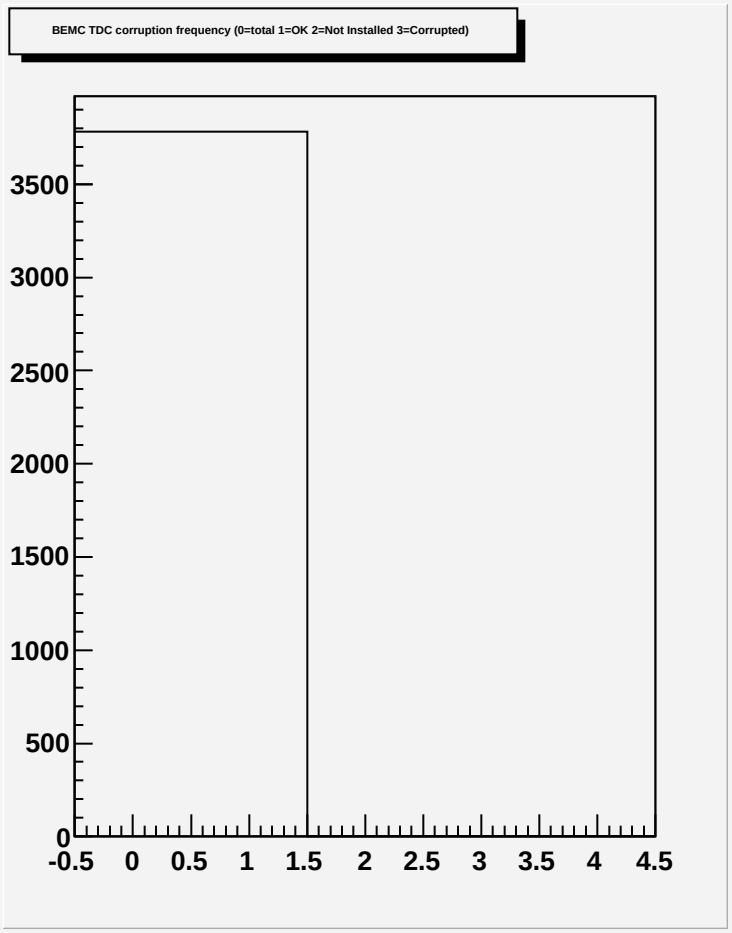

SVT Receiver9 Occupancy (in %)
h281_svt_West_OccRec9
Entries 3782
Mean 0.09096
RMS 0.09444

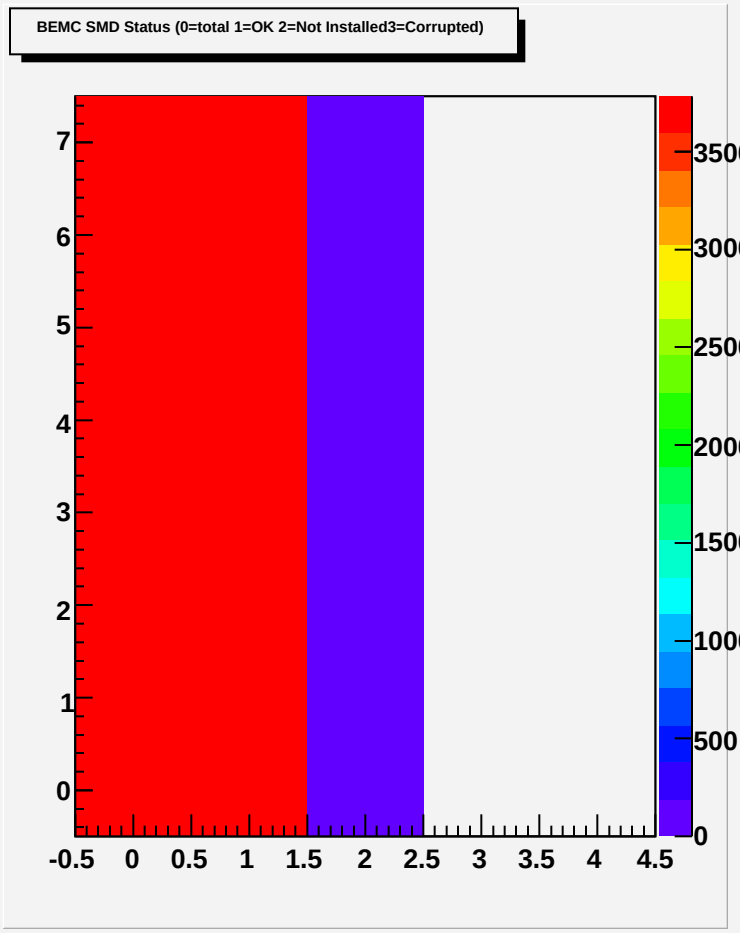

SVT Receiver10 Occupancy (in %)
h282_svt_West_OccRec10
Entries 3782
Mean 0.05659
RMS 0.0771

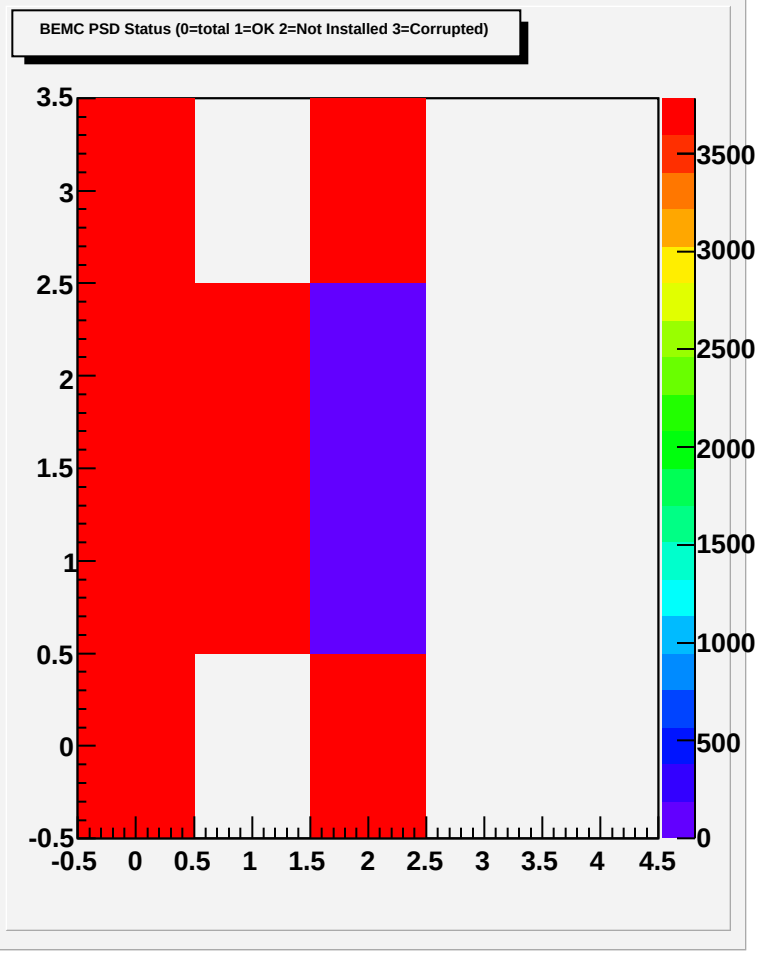

SVT Receiver11 Occupancy (in %)
h283_svt_West_OccRec11
Entries 3782
Mean 0
RMS 0

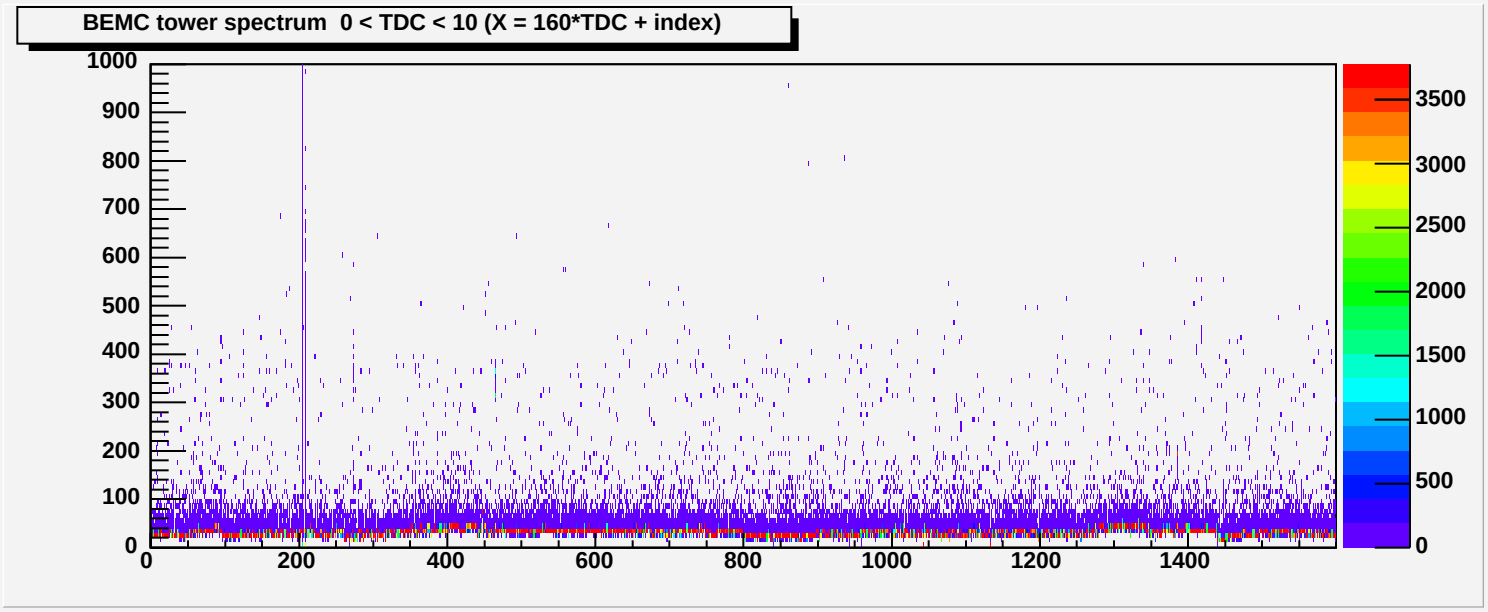

SVT Receiver12 Occupancy (in %)
h284_svt_West_OccRec12
Entries 3782
Mean 0.2666
RMS 0.1422

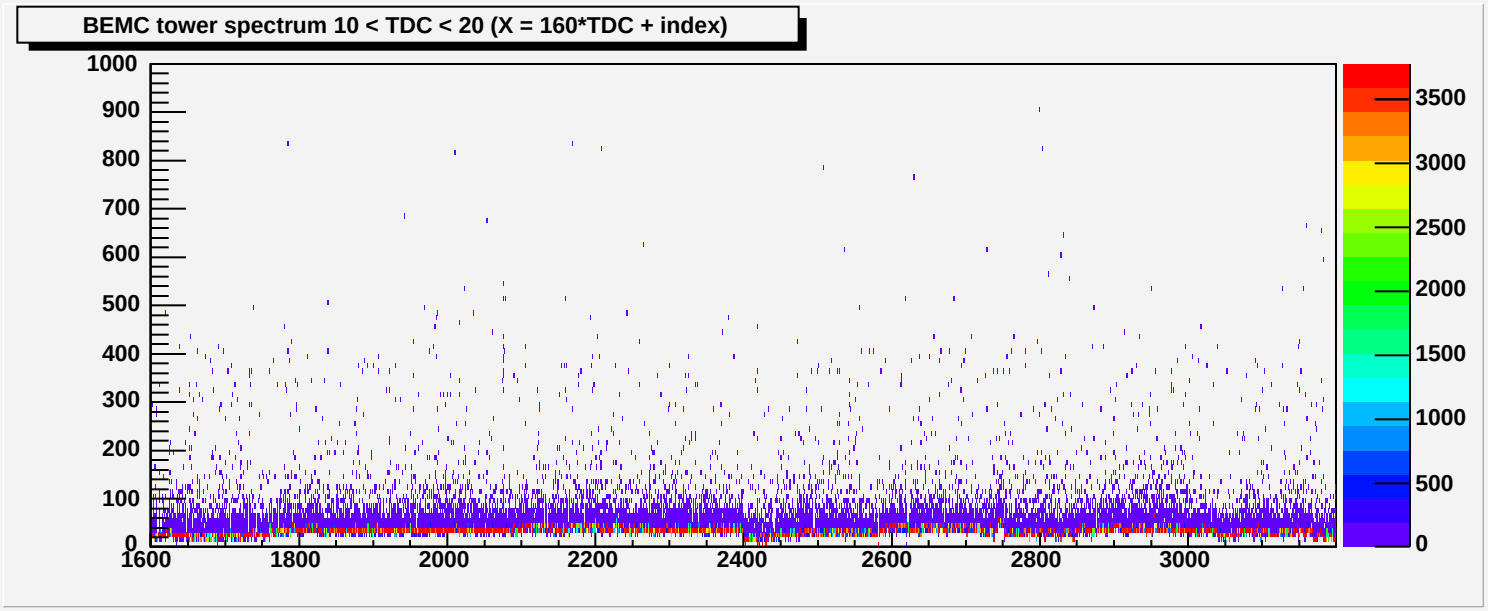

BEMC TDC Status (0=total 1=OK 2=Not Installed3=Corrupted)
0
5
10
15
20
25
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5
0 500 1000 1500 2000 2500 3000 3500

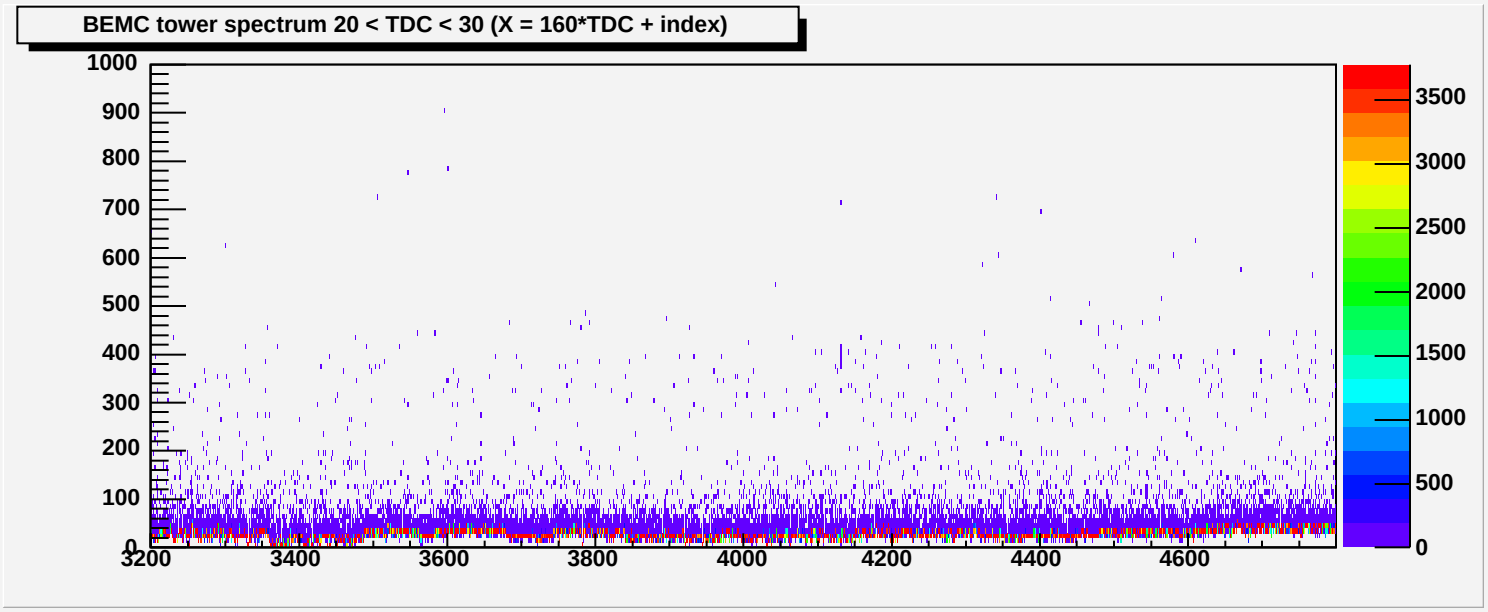

BEMC TDC corruption frequency (0=total 1=OK 2=Not Installed 3=Corrupted)
0 500 1000 1500 2000 2500 3000 3500
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5

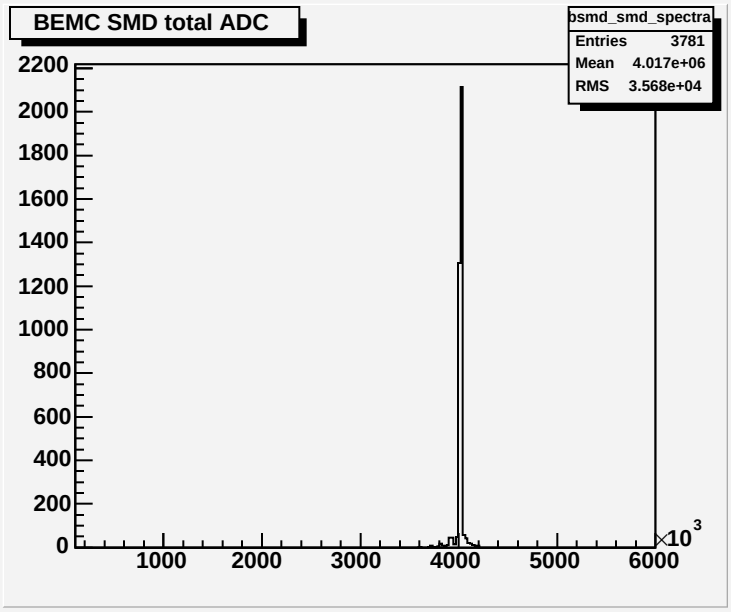

BEMC SMD Status (0=total 1=OK 2=Not Installed3=Corrupted)
0
1
2
3
4
5
6
7
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5
0 500 1000 1500 2000 2500 3000 3500

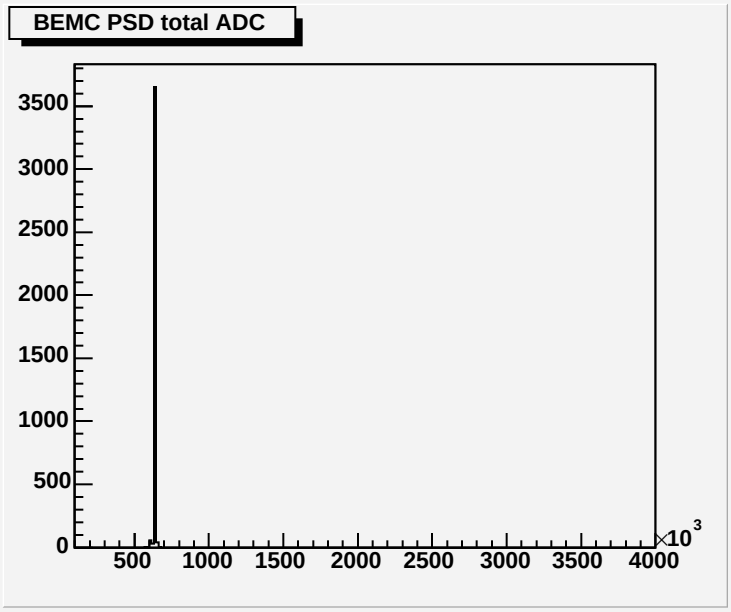

BEMC PSD Status (0=total 1=OK 2=Not Installed 3=Corrupted)
-0.5
0
0.5
1
1.5
2
2.5
3
3.5
-0.5 0 0.5 1 1.5 2 2.5 3 3.5 4 4.5
0 500 1000 1500 2000 2500 3000 3500

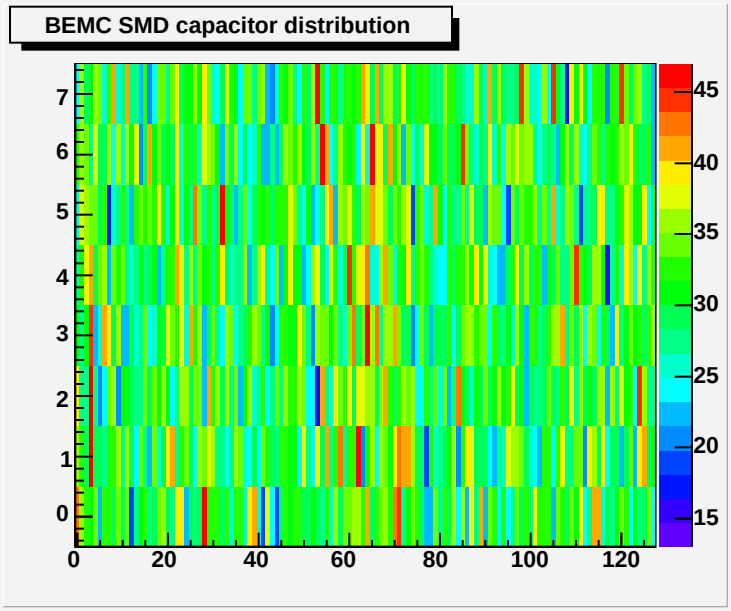

BEMC tower spectrum 0 < TDC < 10 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
0
200
400
600
800
1000
1200
1400
3500
3000
2500
2000
1500
1000
500
0

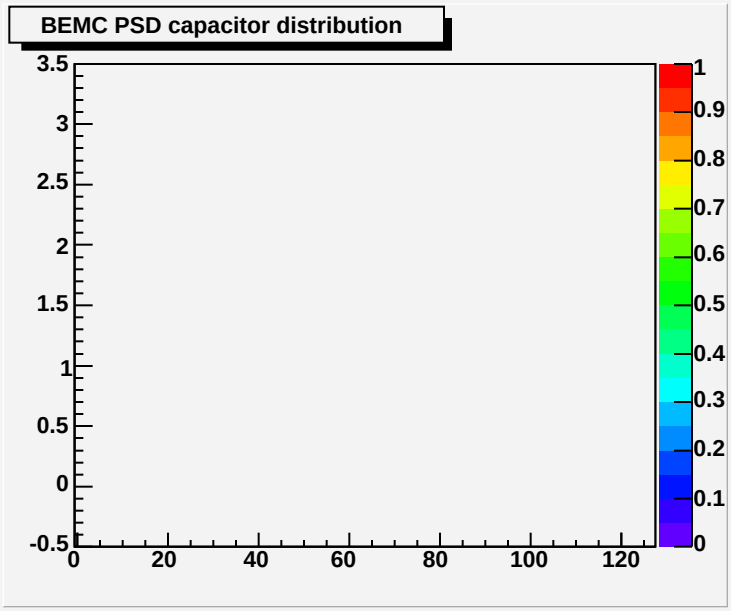

BEMC tower spectrum 10 < TDC < 20 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
1600
1800
2000
2200
2400
2600
2800
3000
3500
3000
2500
2000
1500
1000
500
0

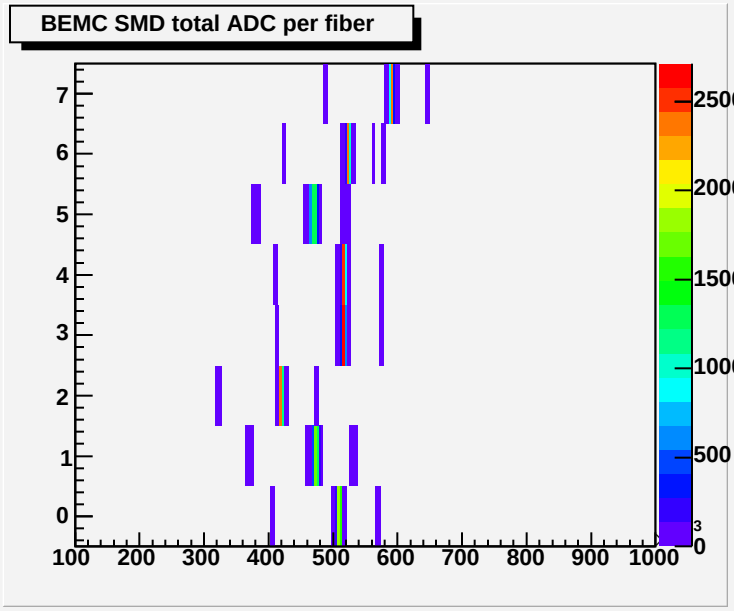

BEMC tower spectrum 20 < TDC < 30 (X = 160*TDC + index)
1000
900
800
700
600
500
400
300
200
100
0
3200
3400
3600
3800
4000
4200
4400
4600
3500
3000
2500
2000
1500
1000
500
0

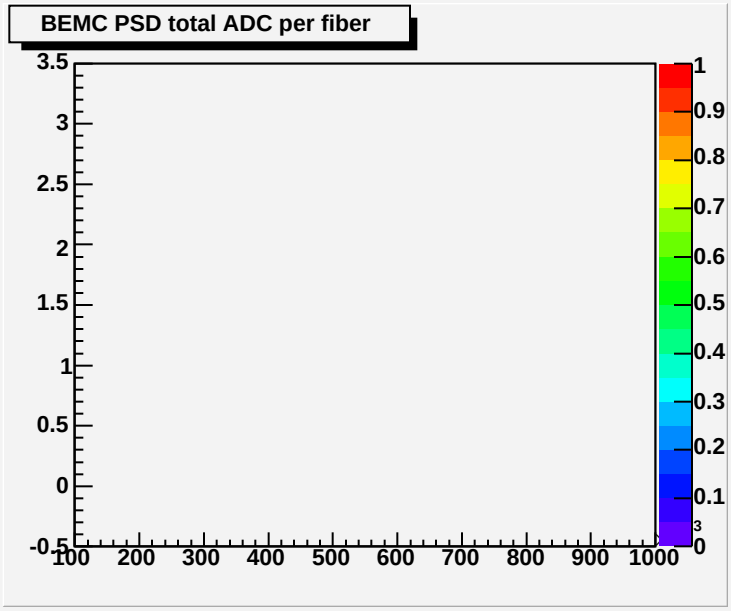

BEMC SMD total ADC
bsmd_smd_spectra
Entries 3781
Mean 4.017e+06
RMS 3.568e+04
×10^3

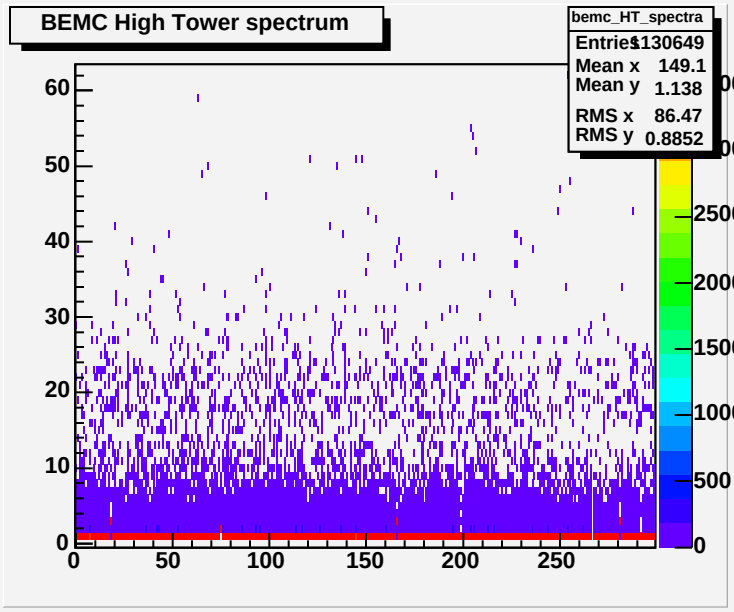

BEMC PSD total ADC
×10^3

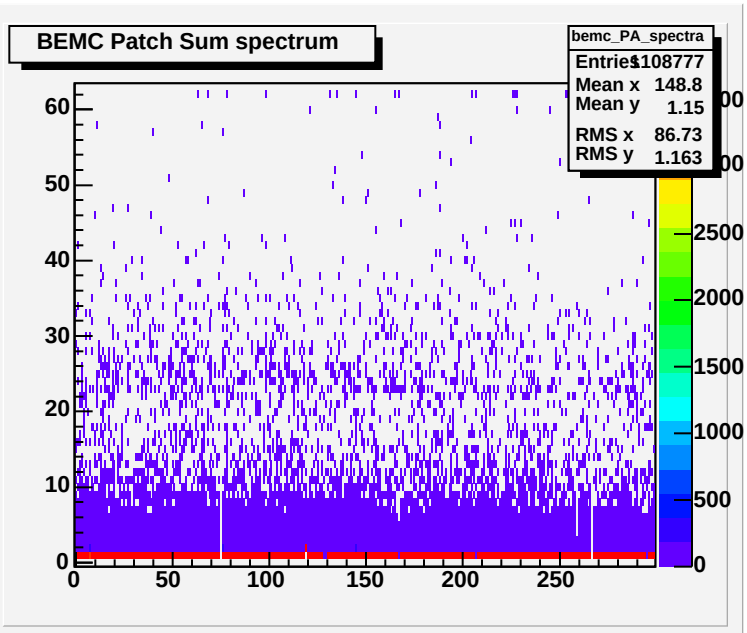

BEMC SMD capacitor distribution

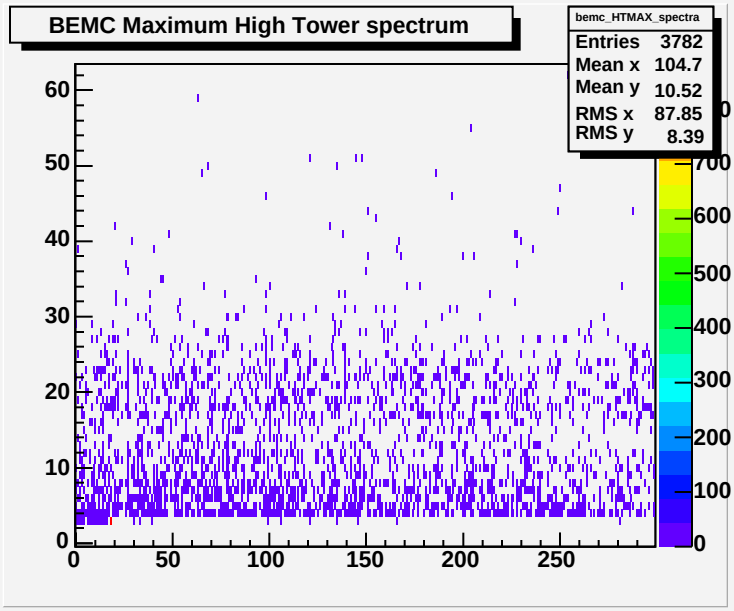

BEMC PSD capacitor distribution

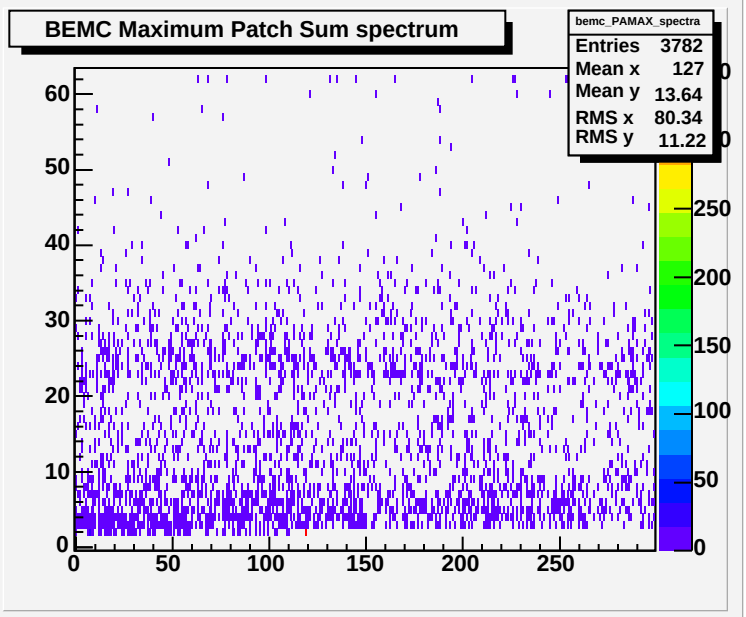

BEMC SMD total ADC per fiber

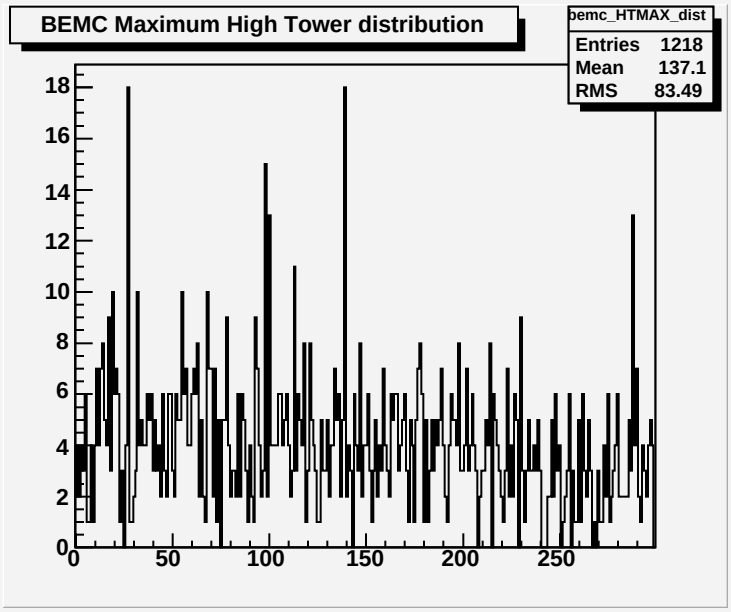

BEMC PSD total ADC per fiber

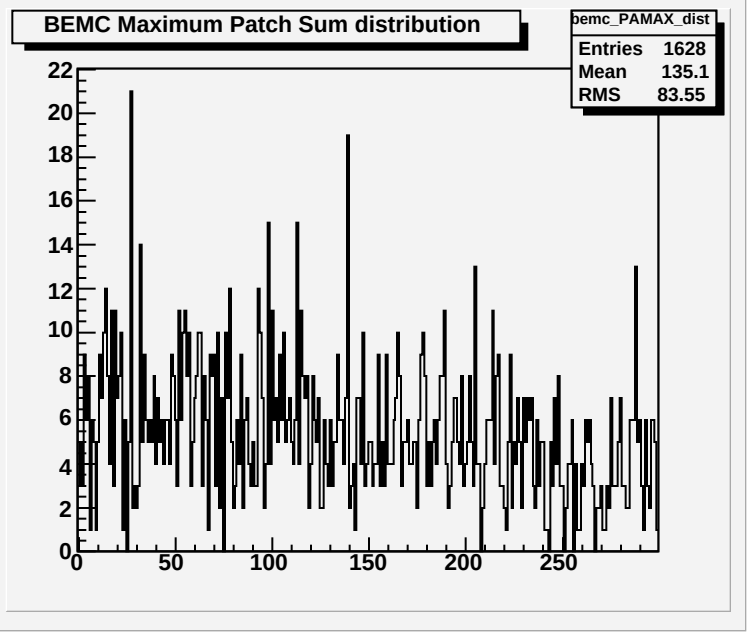

BEMC High Tower spectrum
bemc_HT_spectra
Entries 130649
Mean x 149.1
Mean y 1.138
RMS x 86.47
RMS y 0.8852

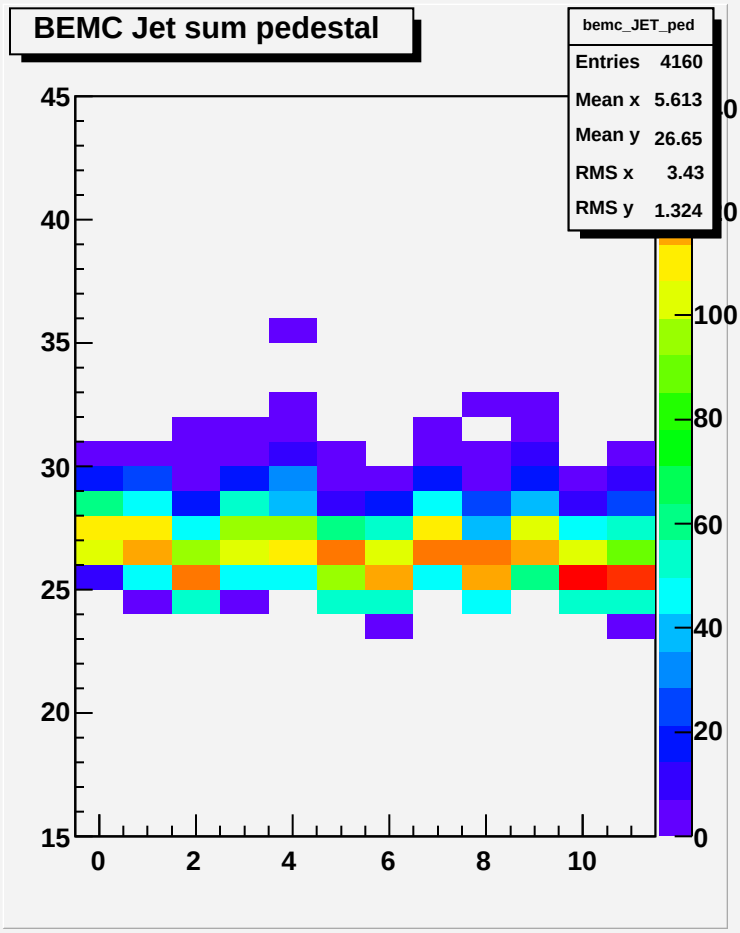

BEMC Patch Sum spectrum
bemc_PA_spectra
Entries 108777
Mean x 148.8
Mean y 1.15
RMS x 86.73
RMS y 1.163

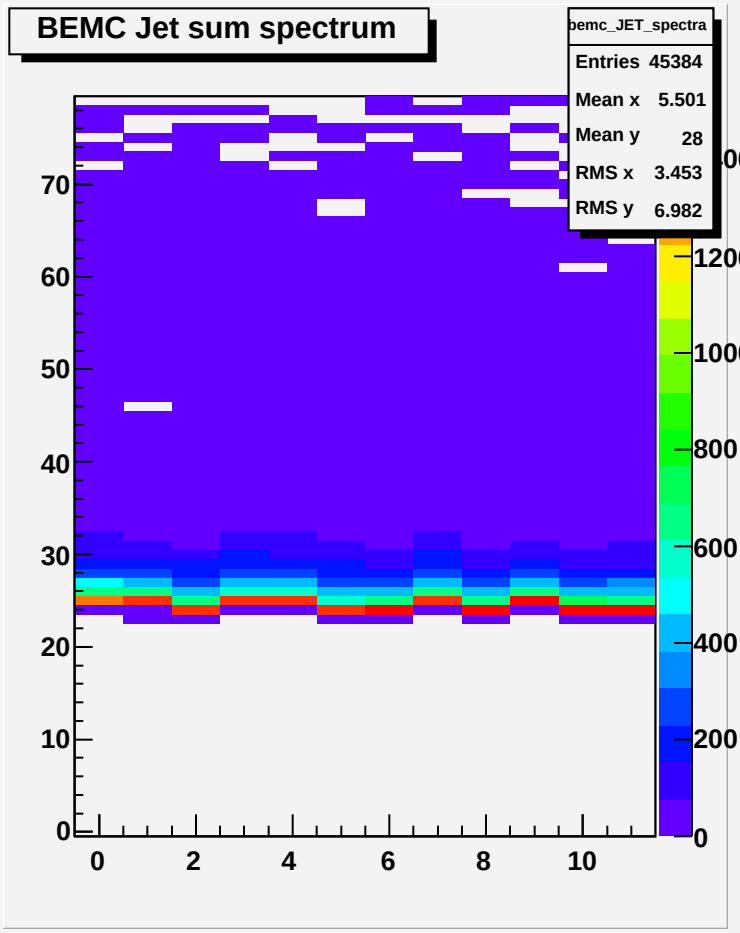

BEMC Maximum High Tower spectrum
bemc_HTMAX_spectra
Entries 3782
Mean x 104.7
Mean y 10.52
RMS x 87.85
RMS y 8.39

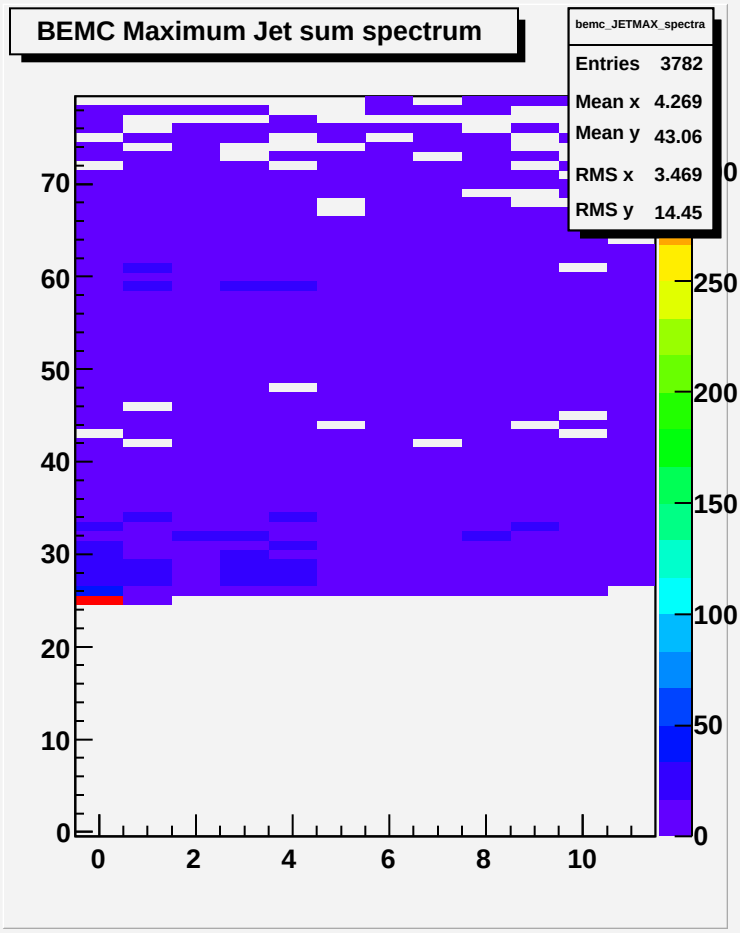

BEMC Maximum Patch Sum spectrum
bemc_PAMAX_spectra
Entries 3782
Mean x 127
Mean y 13.64
RMS x 80.34
RMS y 11.22

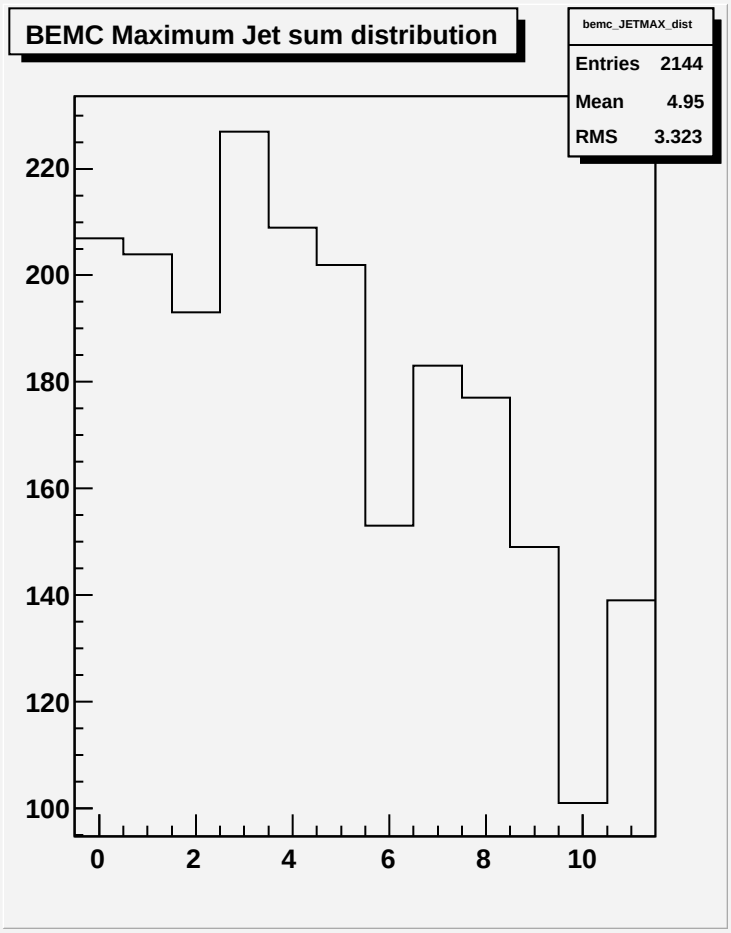

BEMC Maximum High Tower distribution
bemc_HTMAX_dist
Entries 1218
Mean 137.1
RMS 83.49

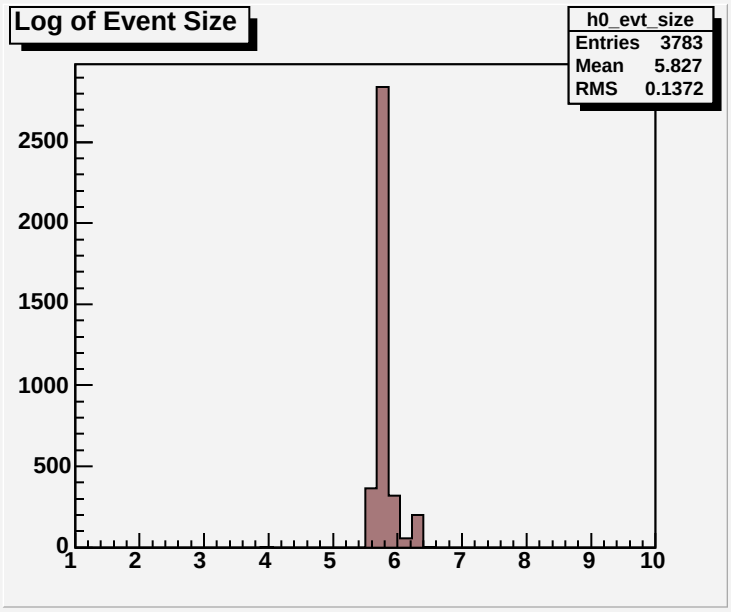

BEMC Maximum Patch Sum distribution
bemc_PAMAX_dist
Entries 1628
Mean 135.1
RMS 83.55

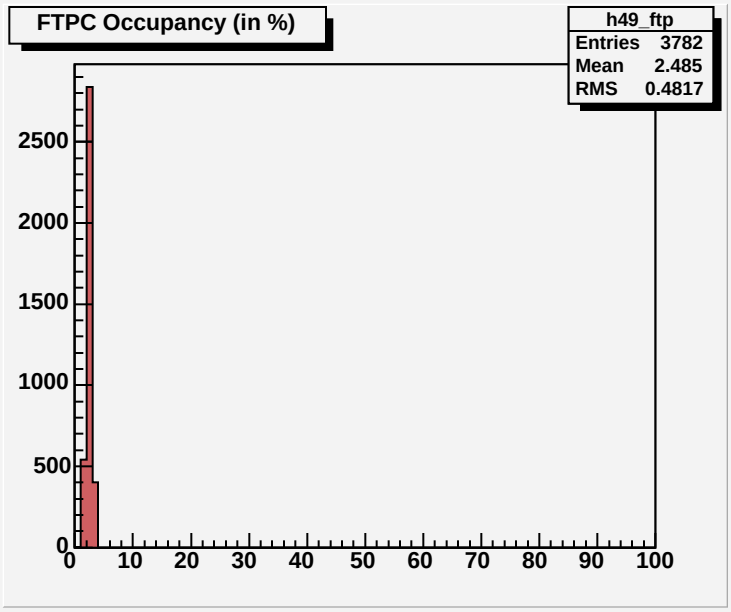

BEMC Jet sum pedestal
bemc_JET_ped
Entries 4160
Mean x 5.613
Mean y 26.65
RMS x 3.43
RMS y 1.324

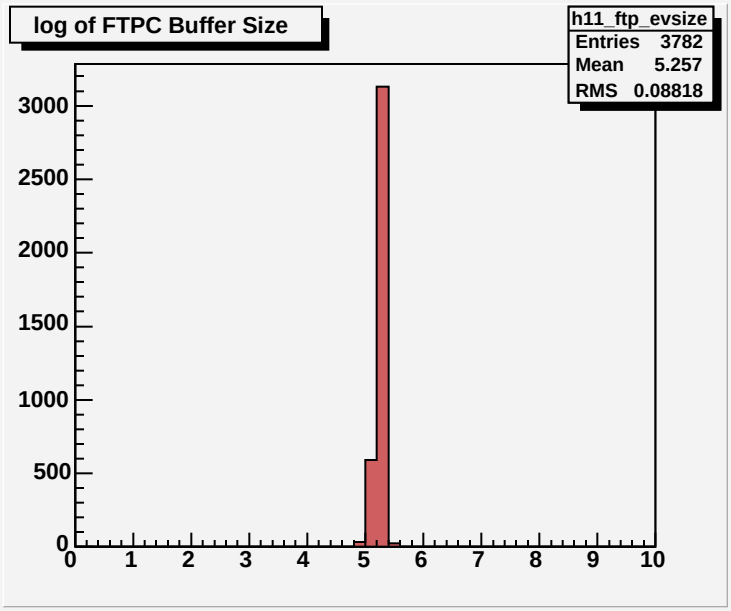

BEMC Jet sum spectrum
bemc_JET_spectra
Entries 45384
Mean x 5.501
Mean y 28
RMS x 3.453
RMS y 6.982

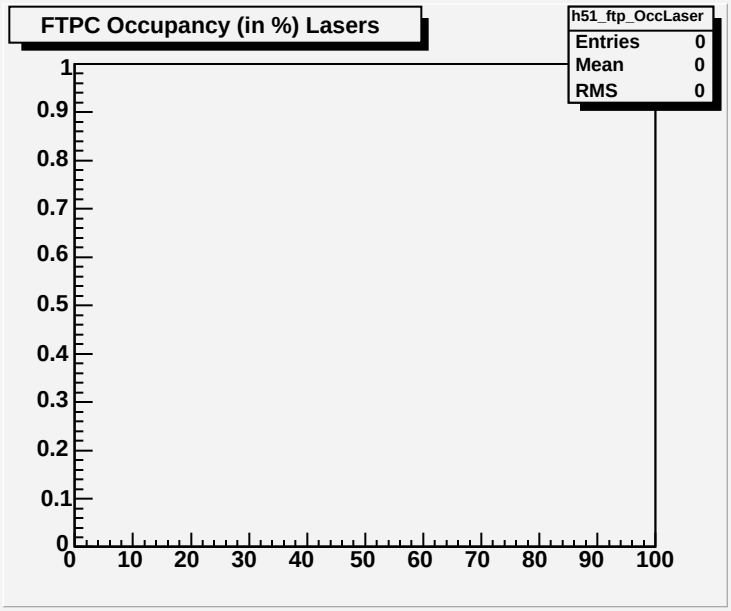

BEMC Maximum Jet sum spectrum
bemc_JETMAX_spectra
Entries 3782
Mean x 4.269
Mean y 43.06
RMS x 3.469
RMS y 14.45

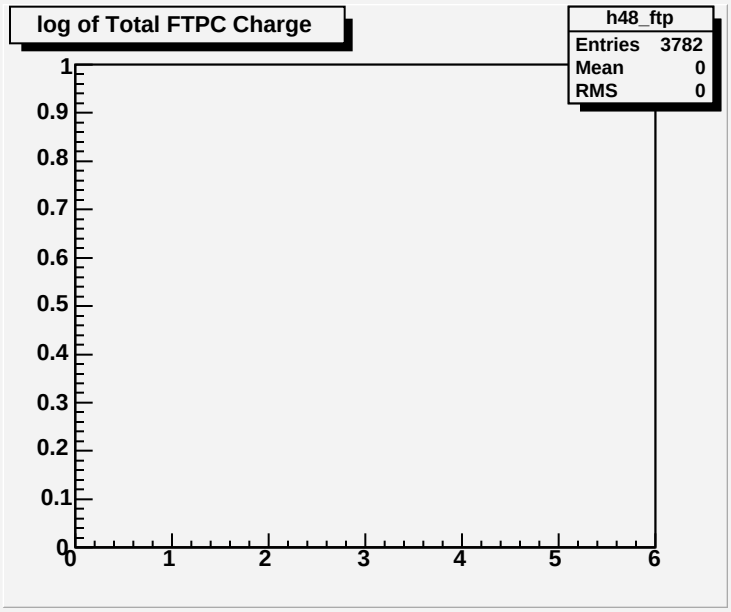

BEMC Maximum Jet sum distribution
bemc_JETMAX_dist
Entries 2144
Mean 4.95
RMS 3.323

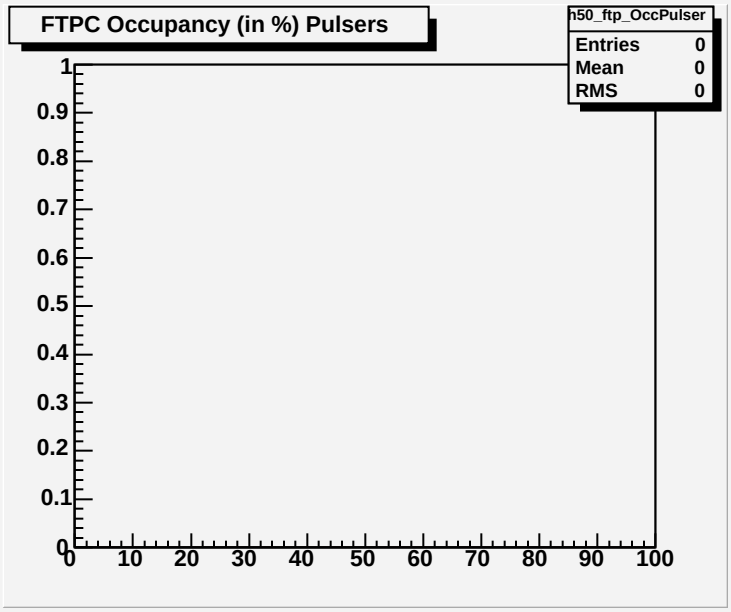

Log of Event Size
h0_evt_size
Entries 3783
Mean 5.827
RMS 0.1372

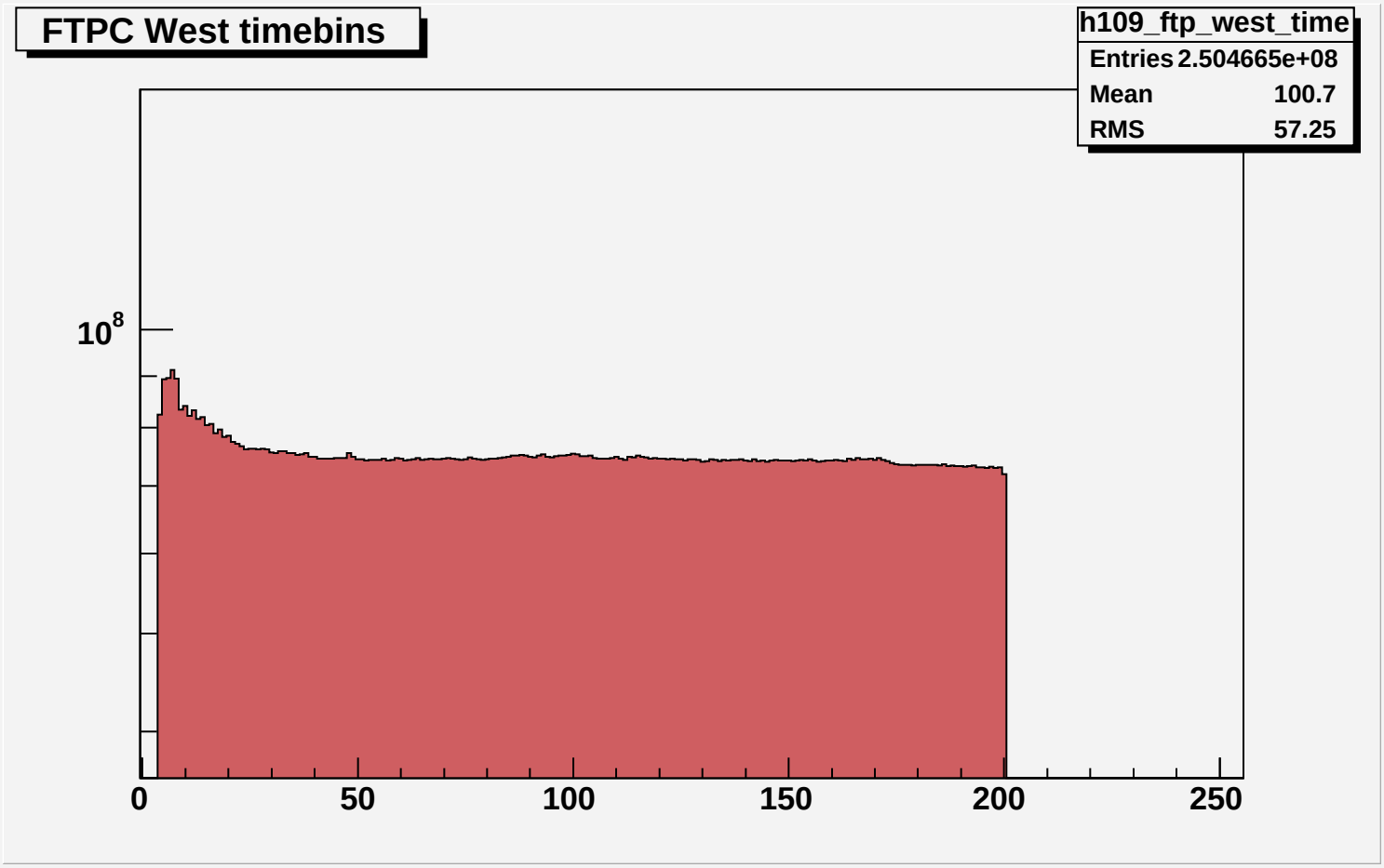

FTPC Occupancy (in %)
h49_ftp
Entries 3782
Mean 2.485
RMS 0.4817

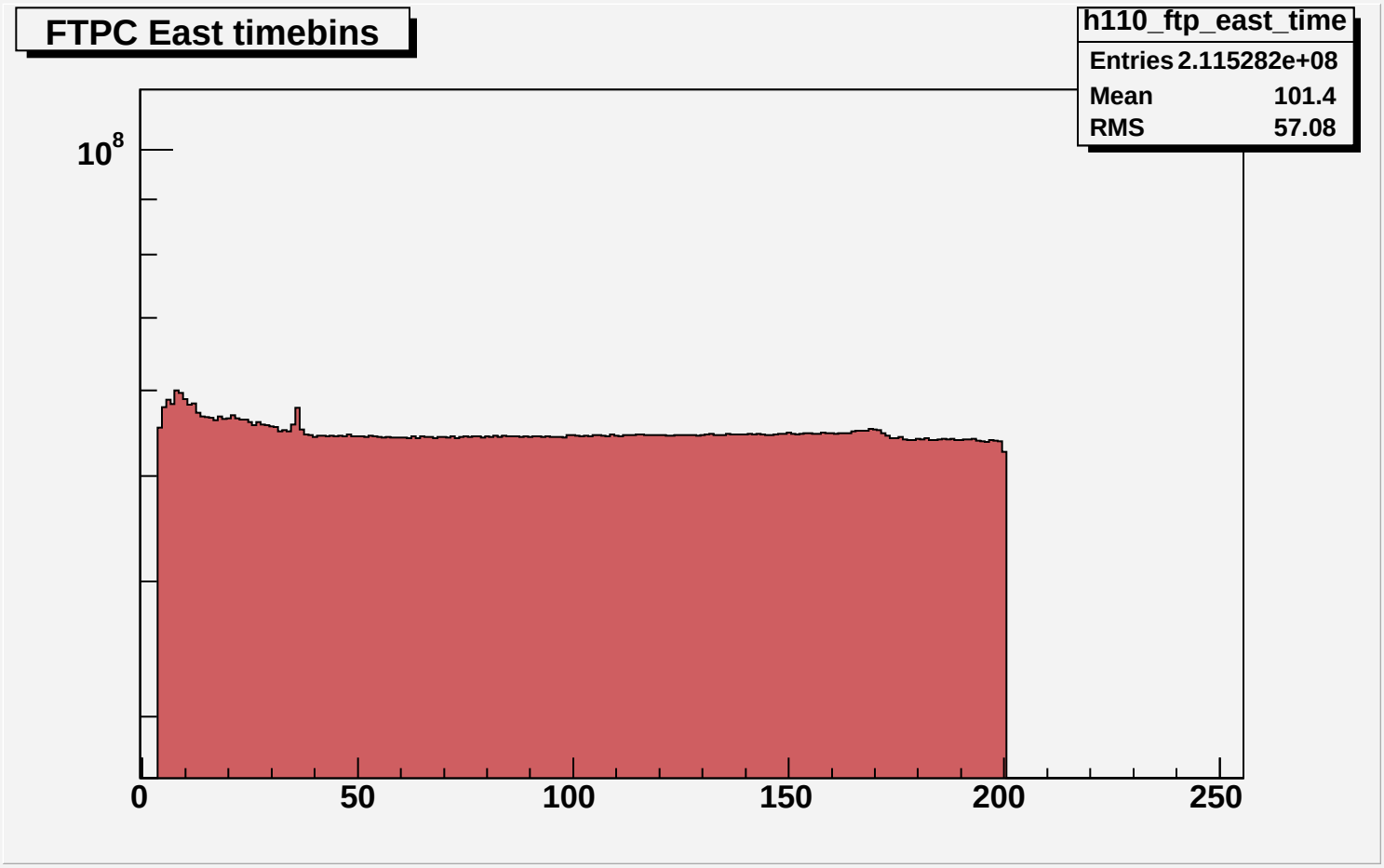

log of FTPC Buffer Size
h11_ftp_evsize
Entries 3782
Mean 5.257
RMS 0.08818

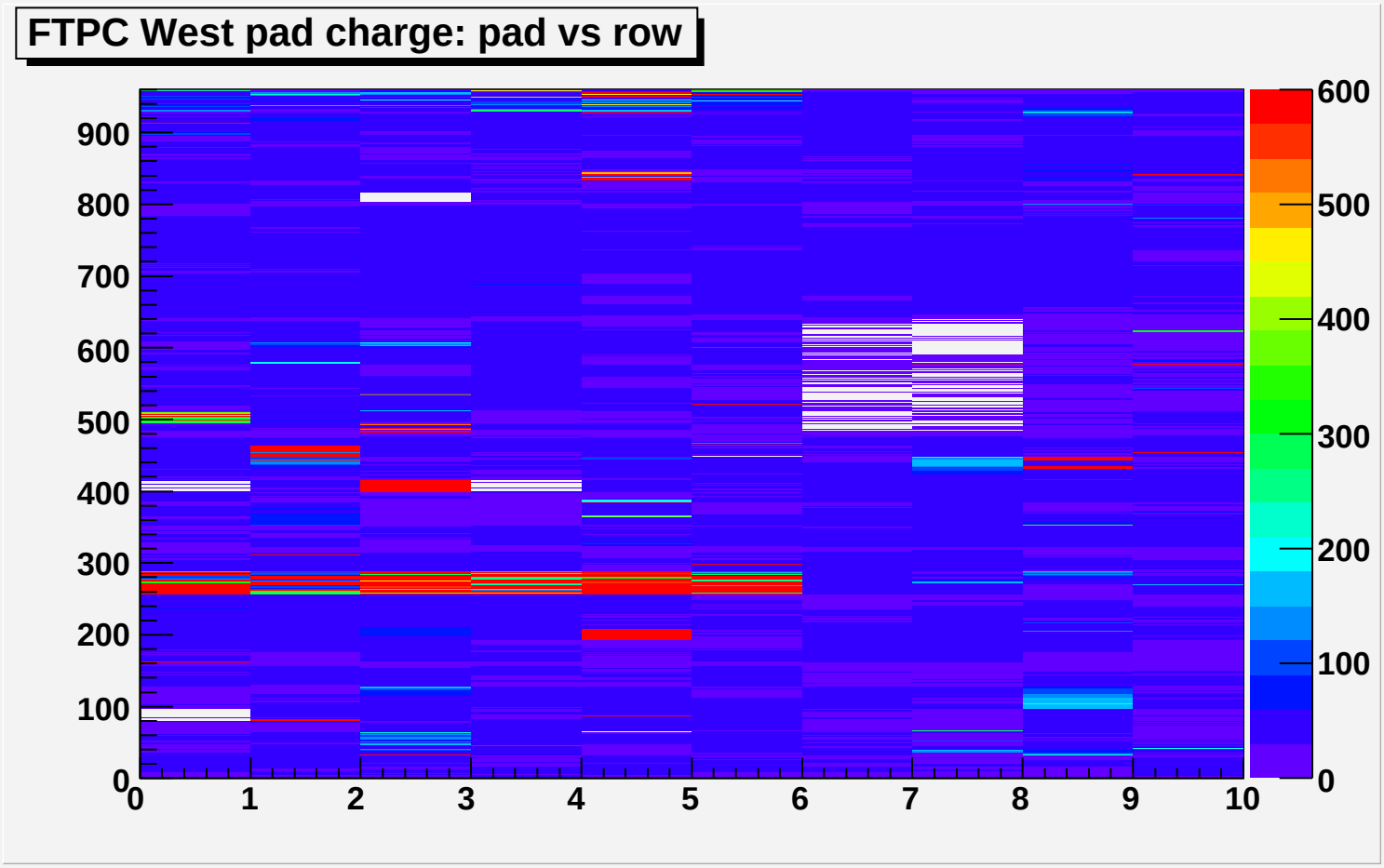

FTPC Occupancy (in %) Lasers
h51_ftp_OccLaser
Entries 0
Mean 0
RMS 0

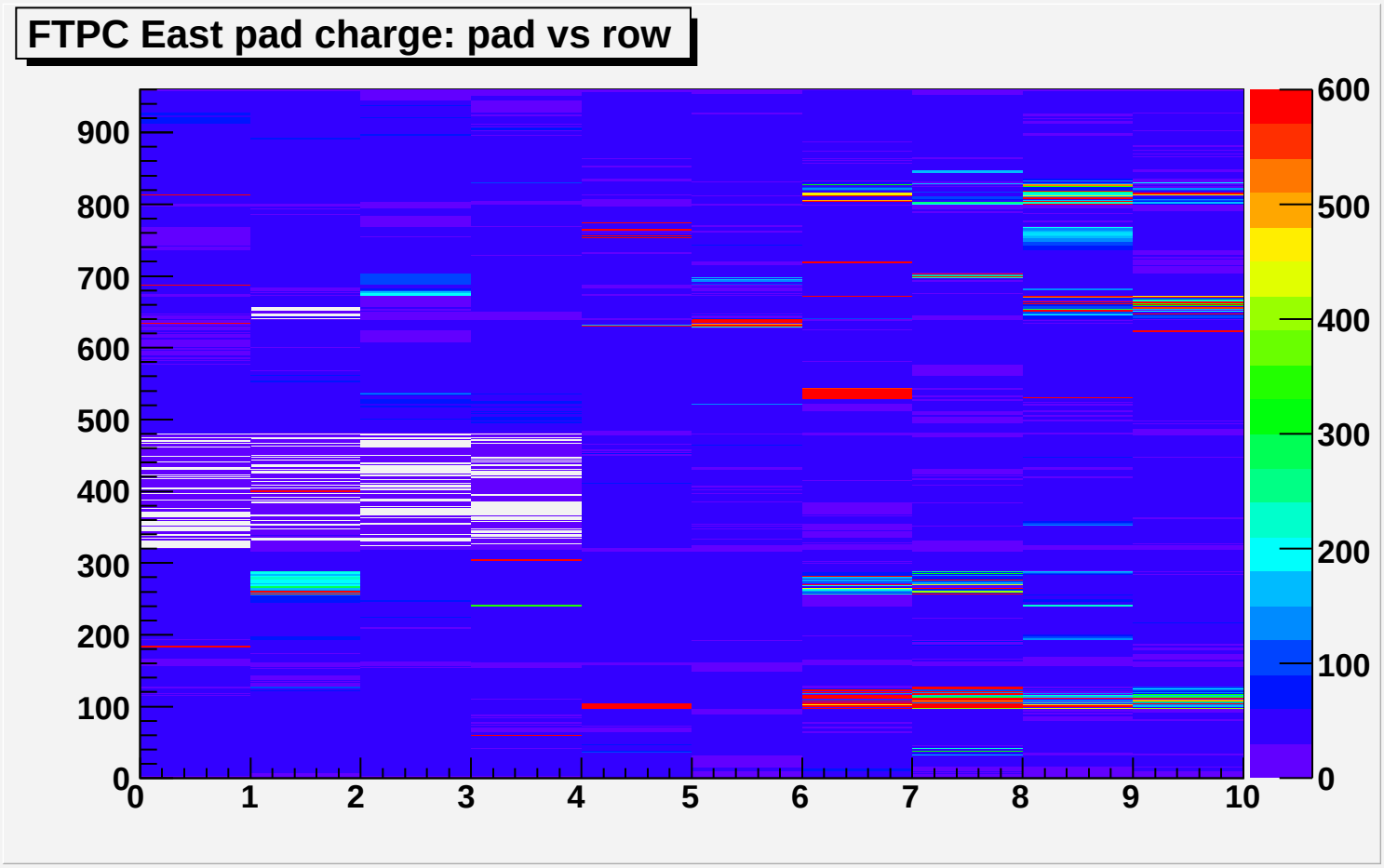

log of Total FTPC Charge
h48_ftp
Entries 3782
Mean 0
RMS 0


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


FTPC West timebins
h109_ftp_west_time
Entries 2.504665e+08
Mean 100.7
RMS 57.25
10^8
0
50
100
150
200
250


FTPC East timebins
h110_ftp_east_time
Entries 2.115282e+08
Mean 101.4
RMS 57.08
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
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7
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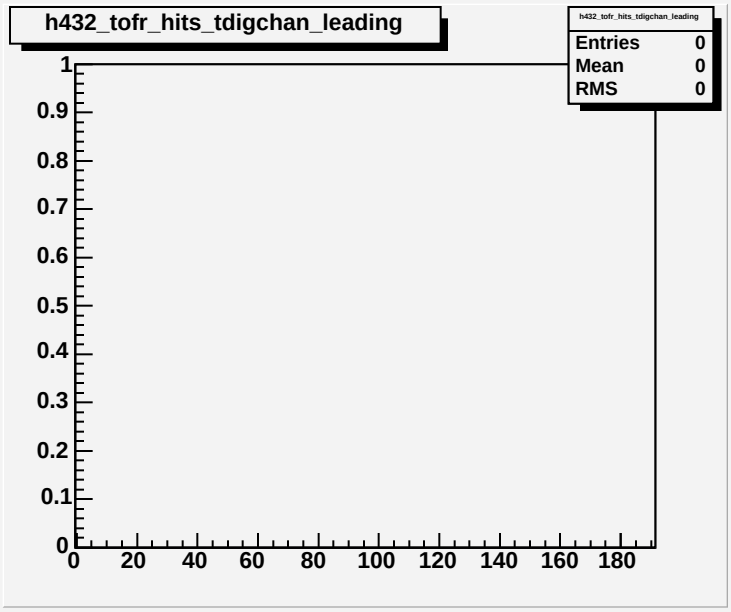
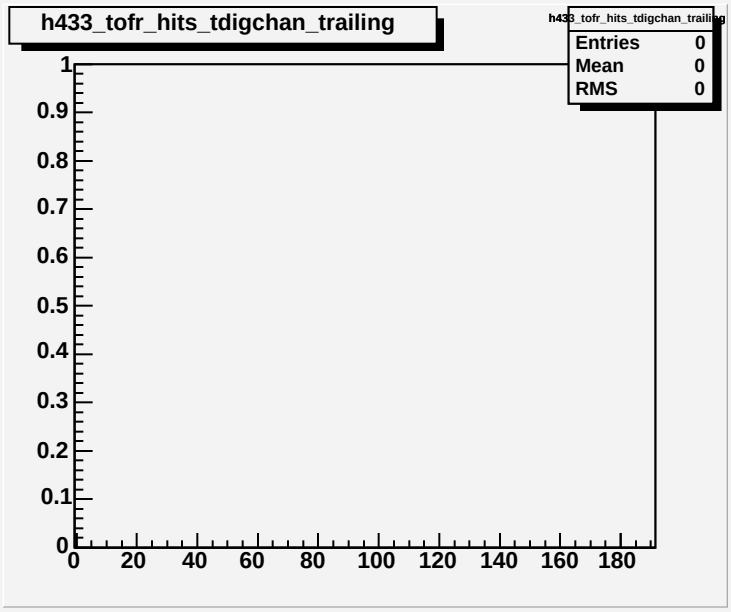
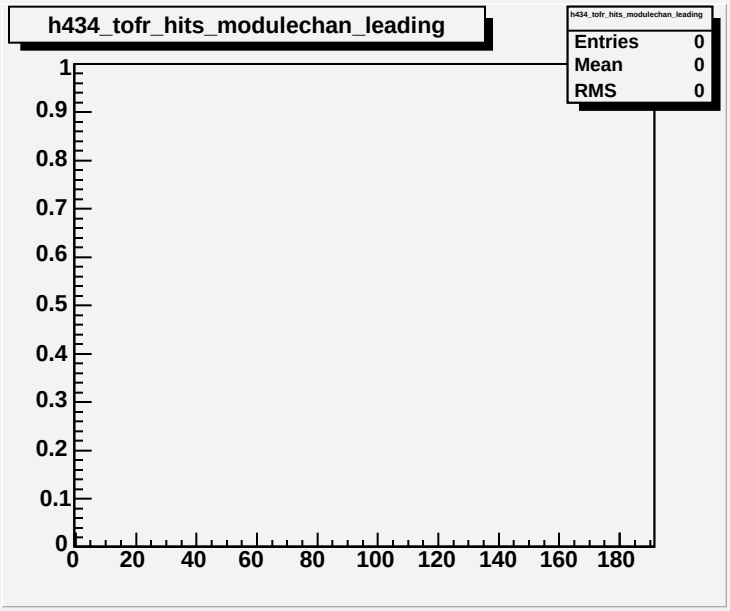
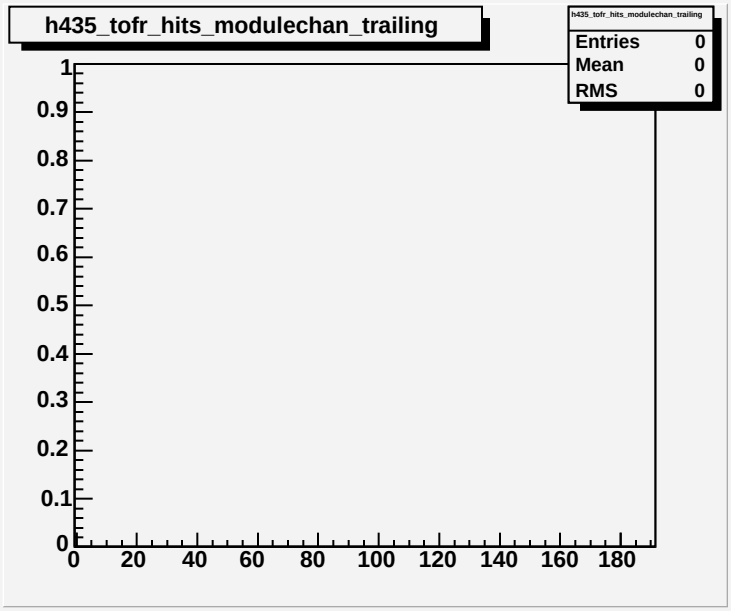
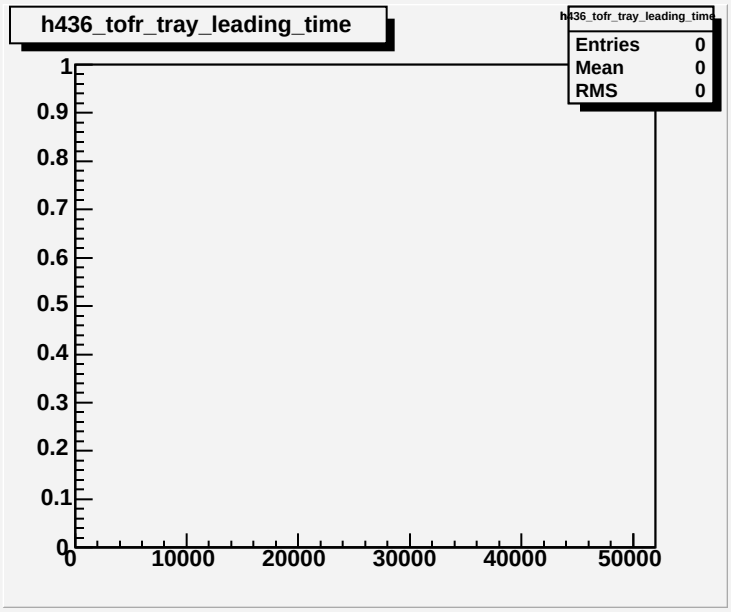
500
400
300
200
100
0

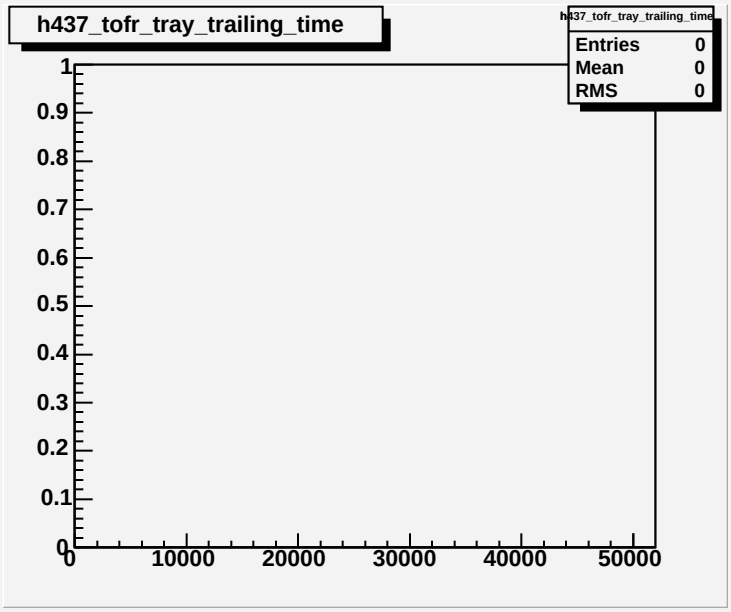

h432_tofr_hits_tdigchan_leading
h432_tofr_hits_tdigchan_leading
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180

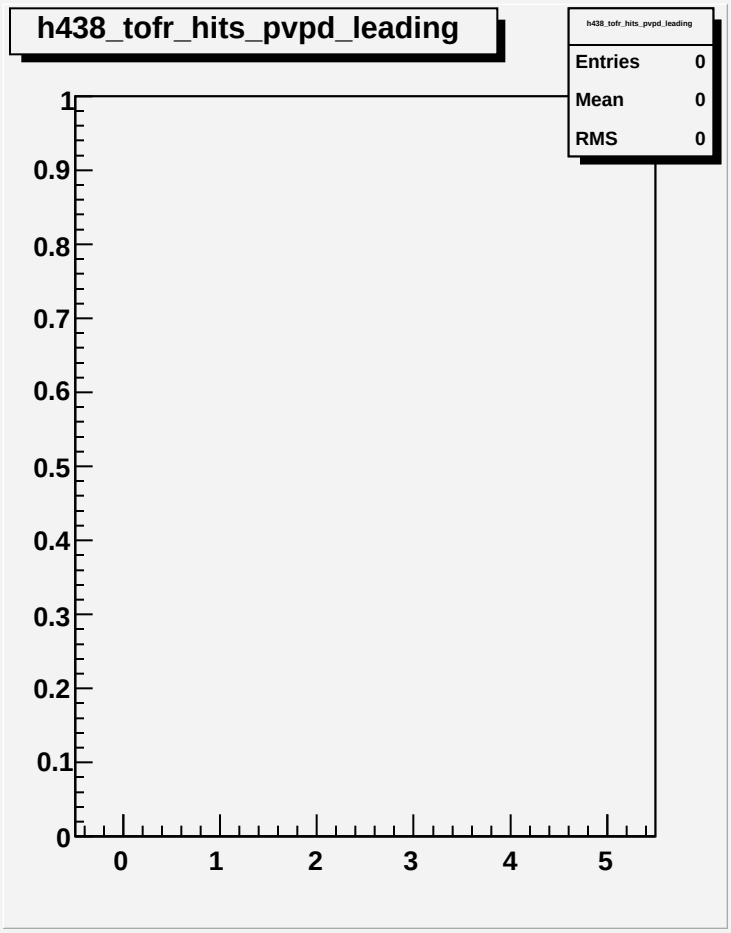

h433_tofr_hits_tdigchan_trailing
h433_tofr_hits_tdigchan_trailing
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180

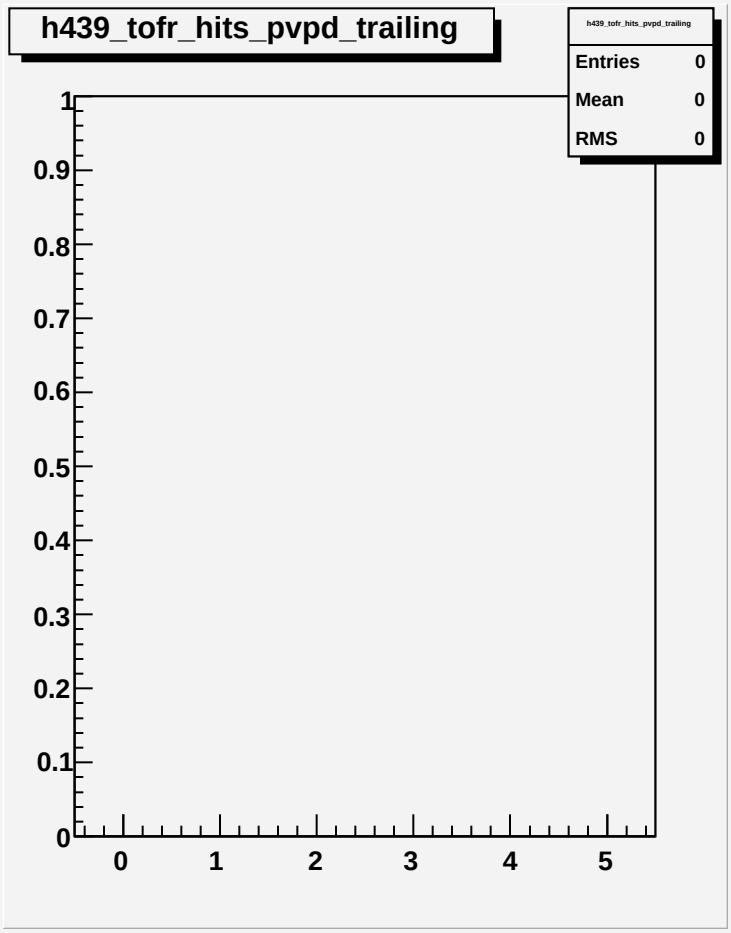

h434_tofr_hits_modulechan_leading
h434_tofr_hits_modulechan_leading
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180

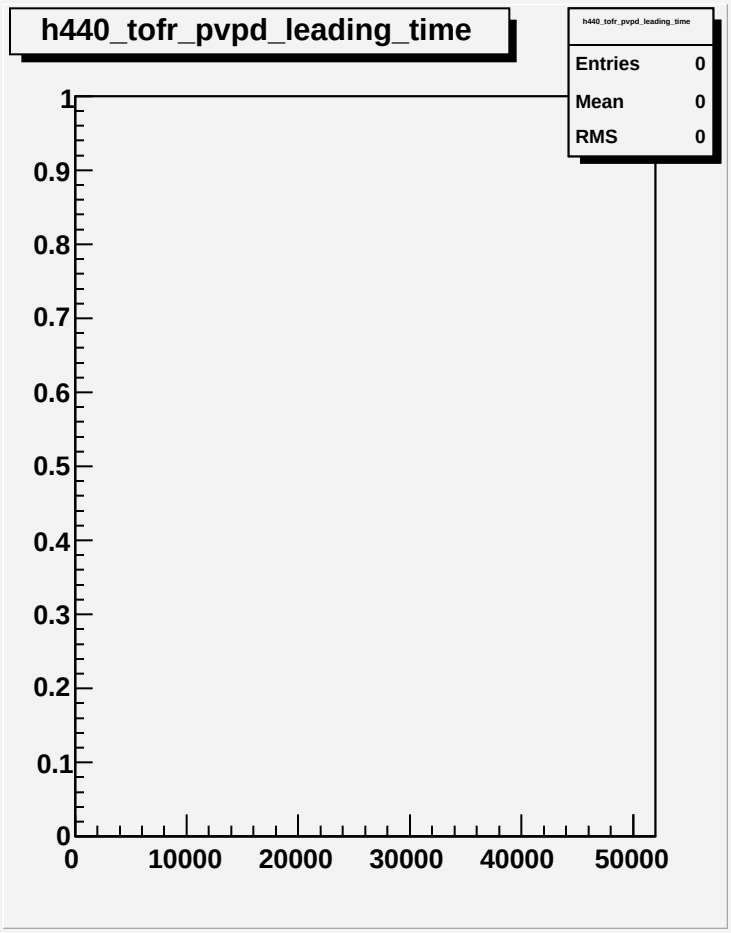

h435_tofr_hits_modulechan_trailing
h435_tofr_hits_modulechan_trailing
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 20 40 60 80 100 120 140 160 180

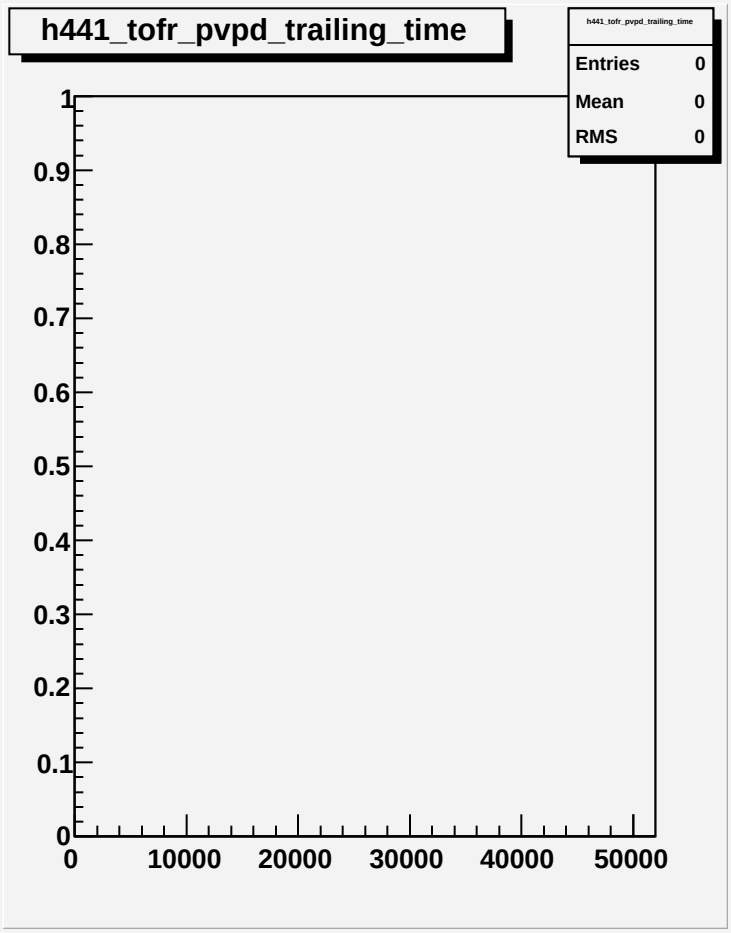

h436_tofr_tray_leading_time
h436_tofr_tray_leading_time
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000


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


h438_tofr_hits_pvpd_leading
h438_tofr_hits_pvpd_leading
Entries 0
Mean 0
RMS 0
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


h439_tofr_hits_pvpd_trailing
h439_tofr_hits_pvpd_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 1 2 3 4 5


h440_tofr_pvpd_leading_time
h440_tofr_pvpd_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


h441_tofr_pvpd_trailing_time
h441_tofr_pvpd_trailing_time
Entries 0
Mean 0
RMS 0
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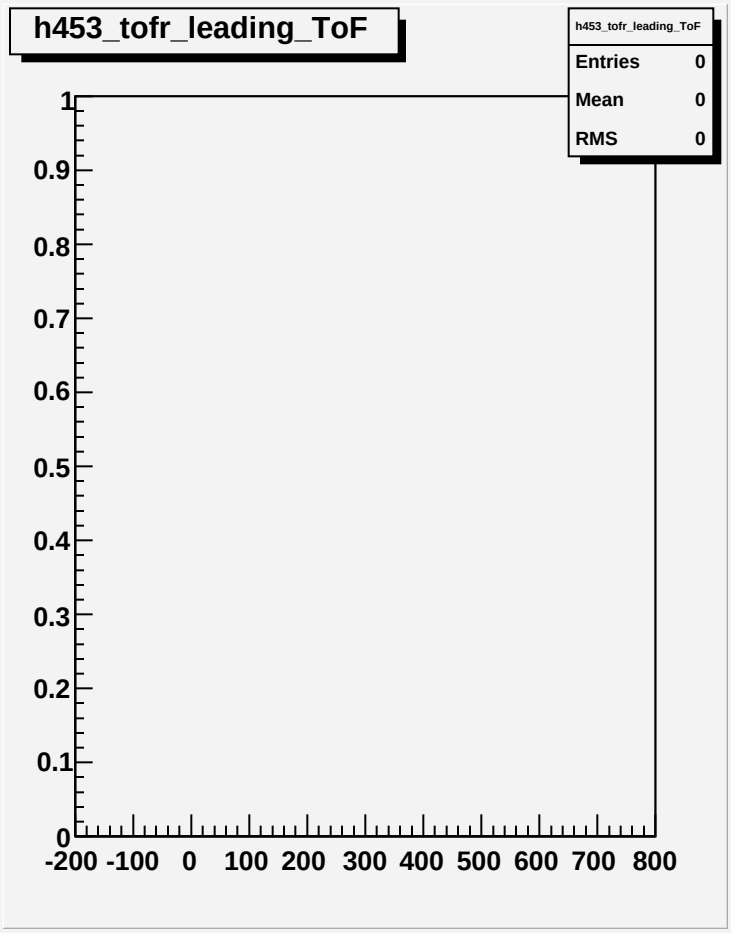
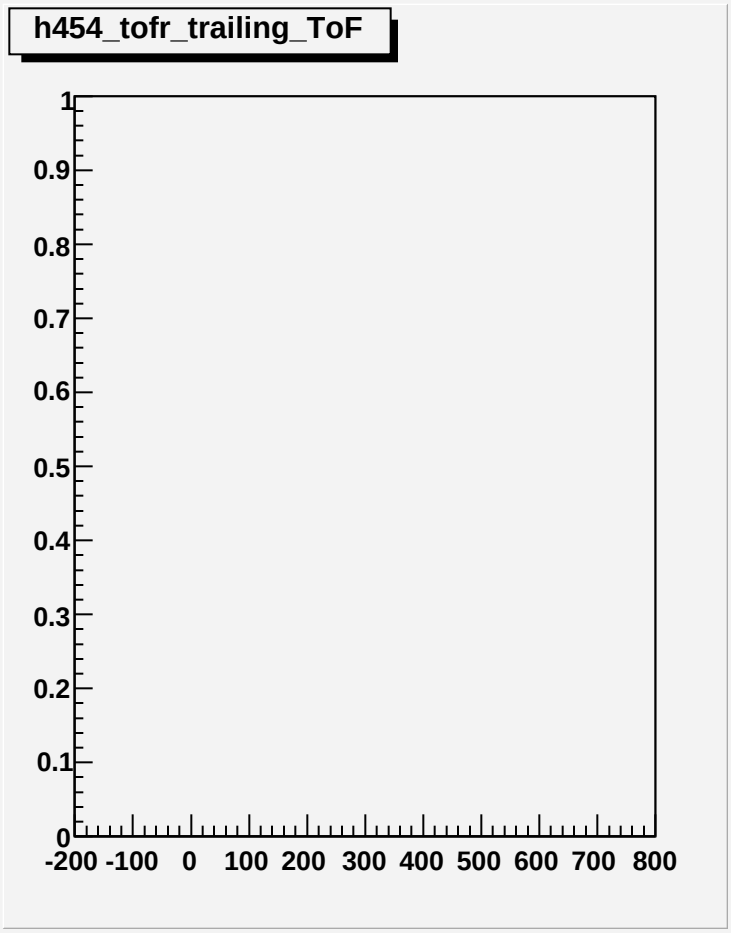
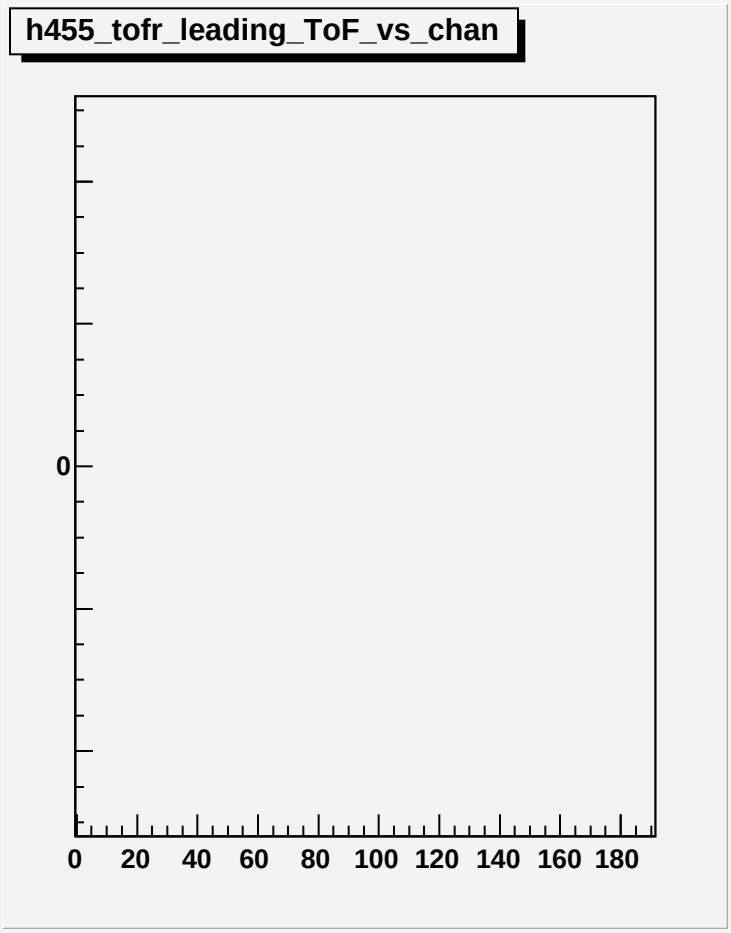
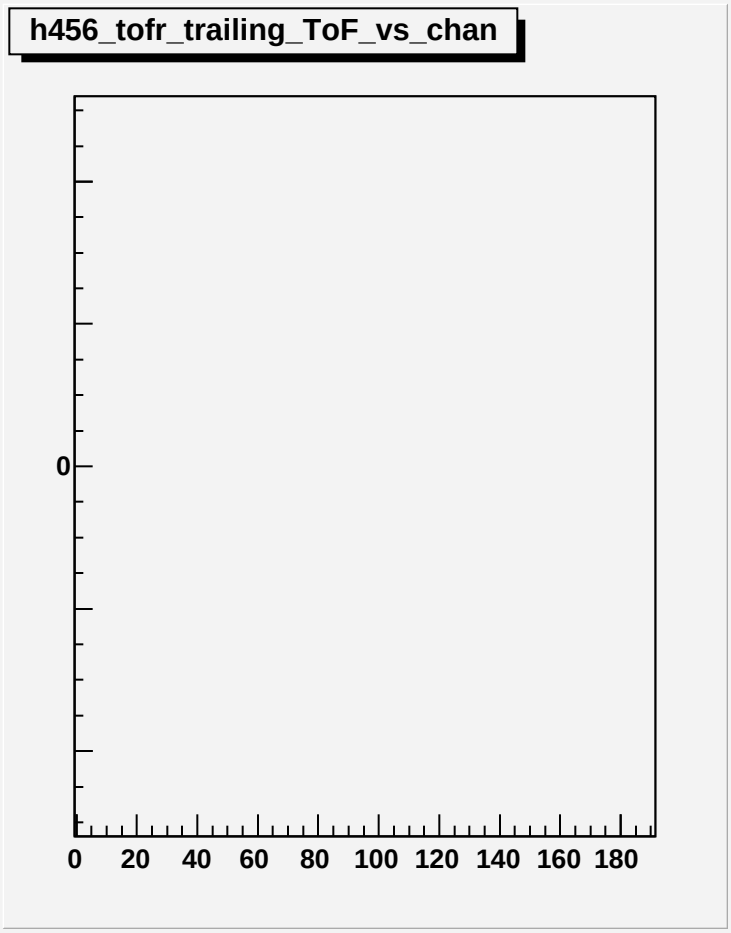
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10000 20000 30000 40000 50000

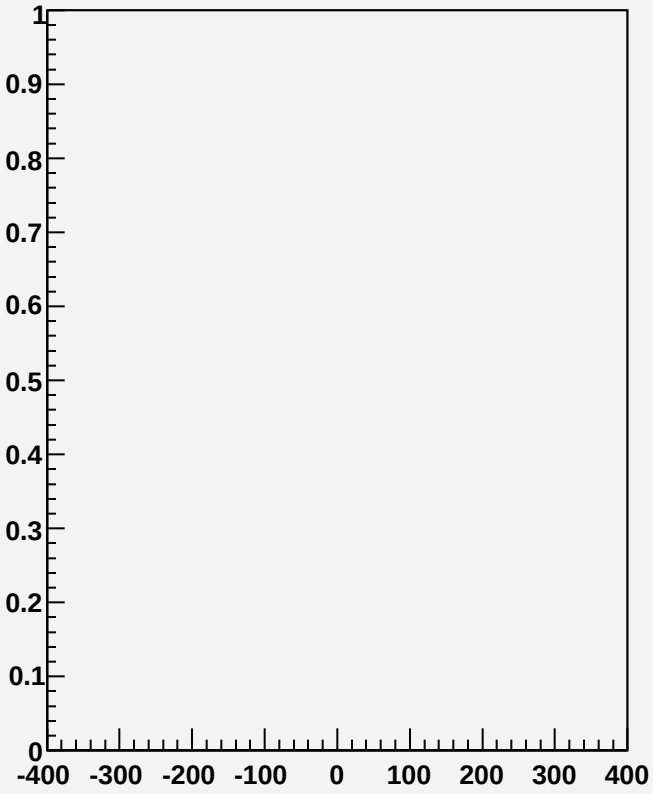

h453_tofr_leading_ToF
h453_tofr_leading_ToF
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
-200 -100 0 100 200 300 400 500 600 700 800


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

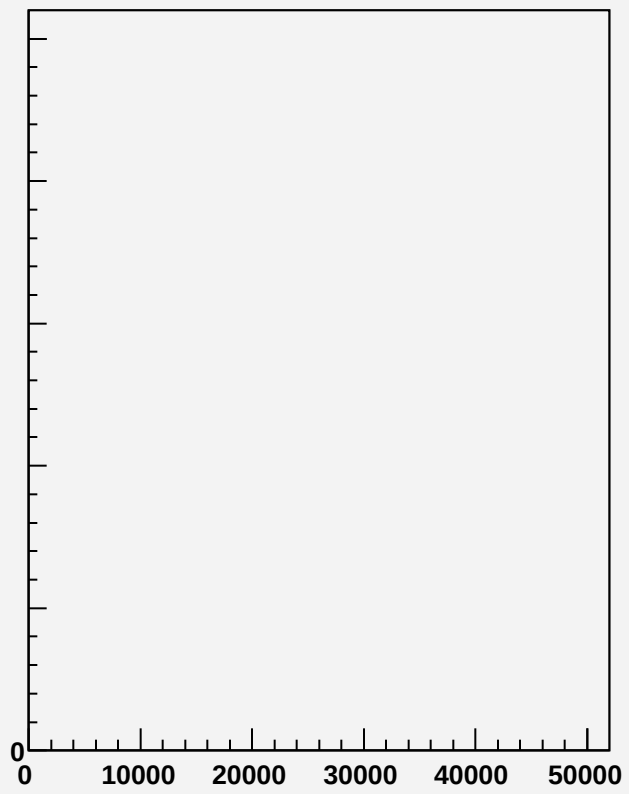

h455_tofr_leading_ToF_vs_chan
0
0 20 40 60 80 100 120 140 160 180


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

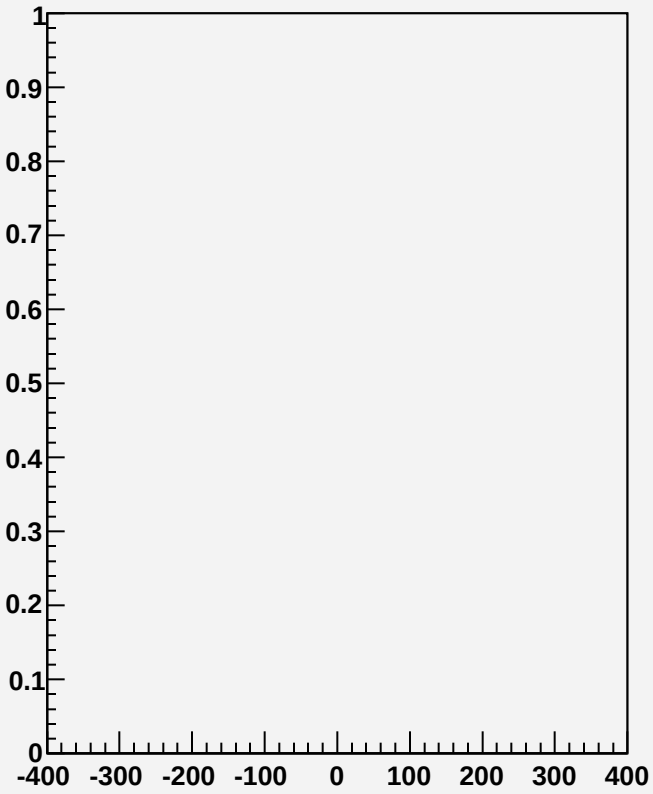
h457_tofr_pvpd_le_t0west_t0east



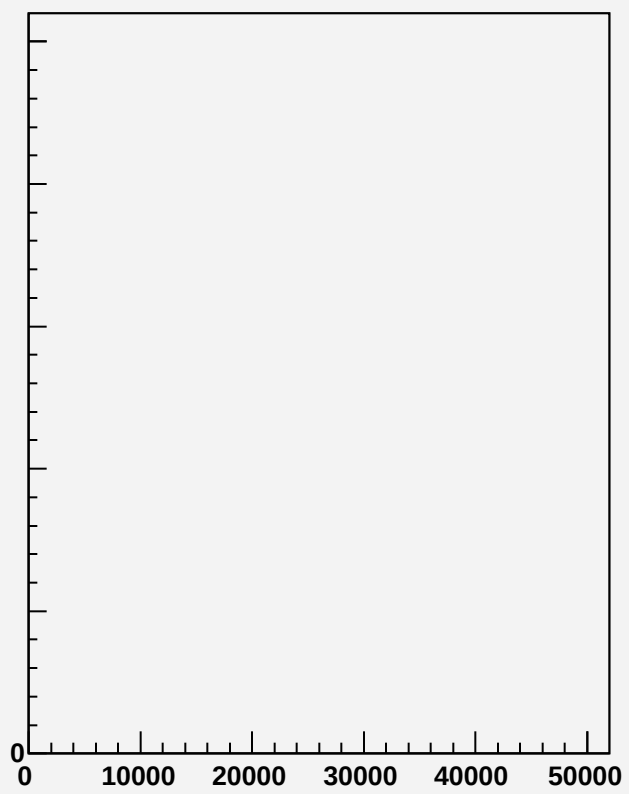
h458_tofr_pvpd_le_t0west_vs_t0east



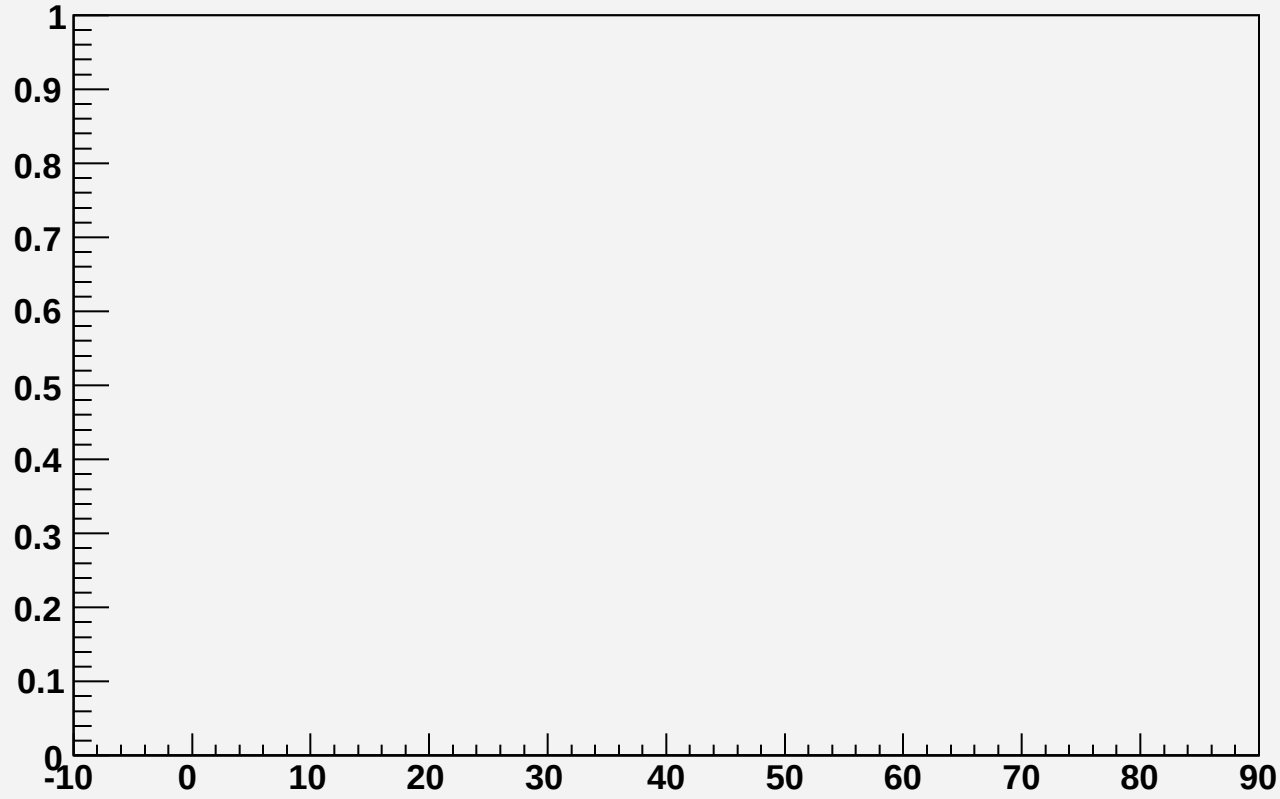
h459_tofr_pvpd_te_t0west_t0east



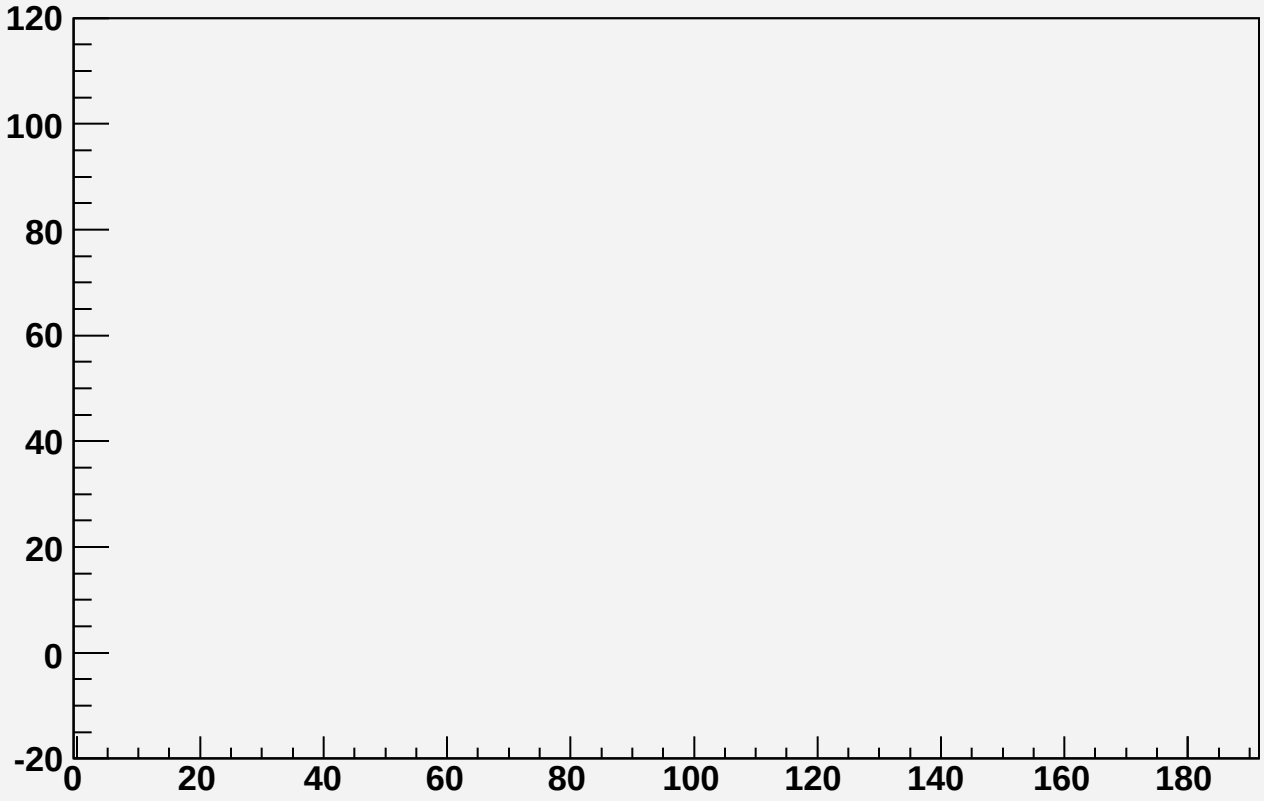
h460_tofr_pvpd_te_t0west_vs_t0east

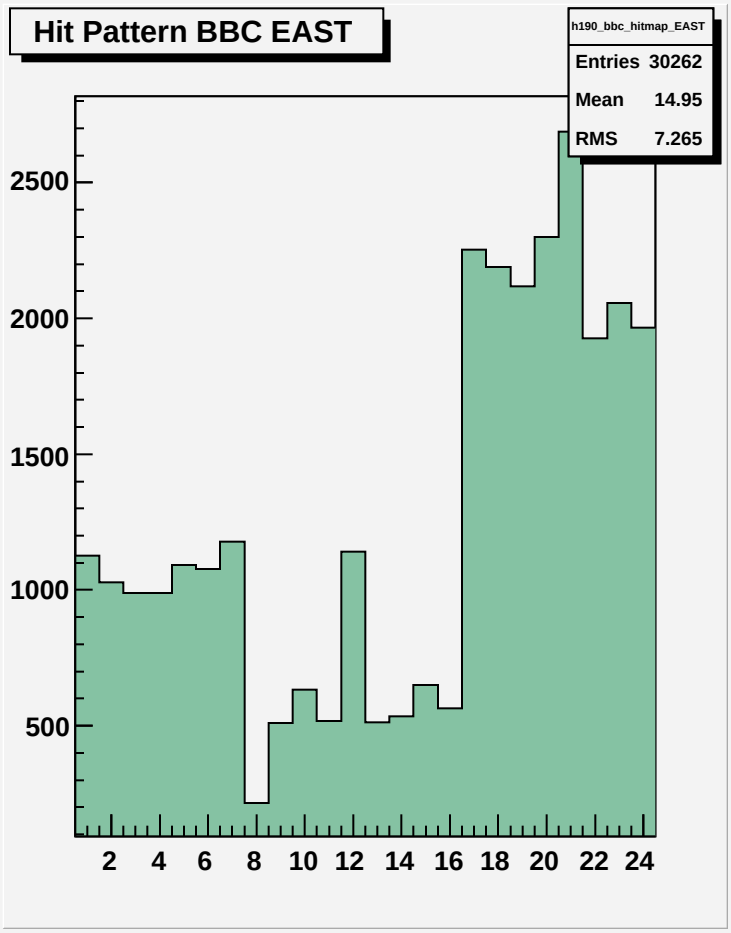


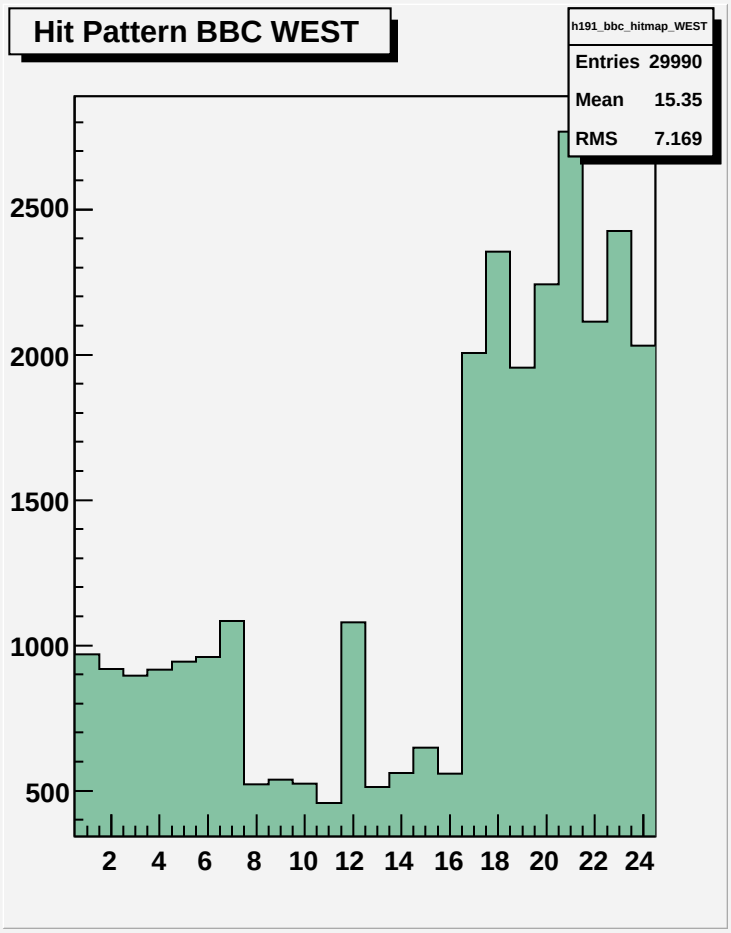
h461_tofr_ToT

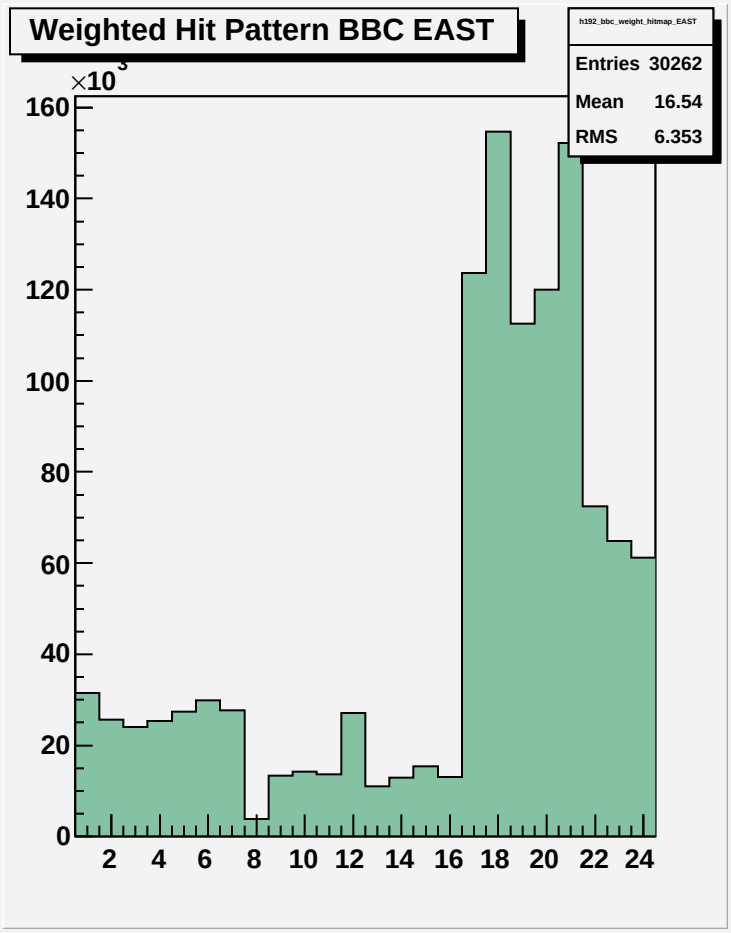


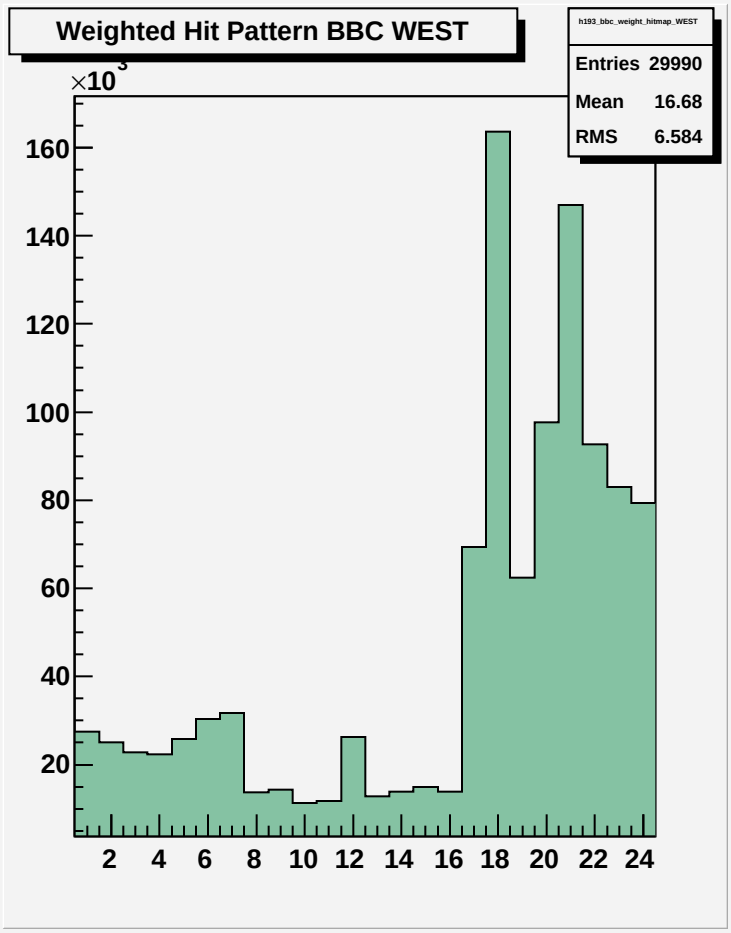
h462_tofr_ToT_vs_chan




Hit Pattern BBC EAST
h190_bbc_hitmap_EAST
Entries 30262
Mean 14.95
RMS 7.265
2500
2000
1500
1000
500
2 4 6 8 10 12 14 16 18 20 22 24


Hit Pattern BBC WEST
h191_bbc_hitmap_WEST
Entries 29990
Mean 15.35
RMS 7.169
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 30262
Mean 16.54
RMS 6.353
×10³
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 29990
Mean 16.68
RMS 6.584
×10³
160
140
120
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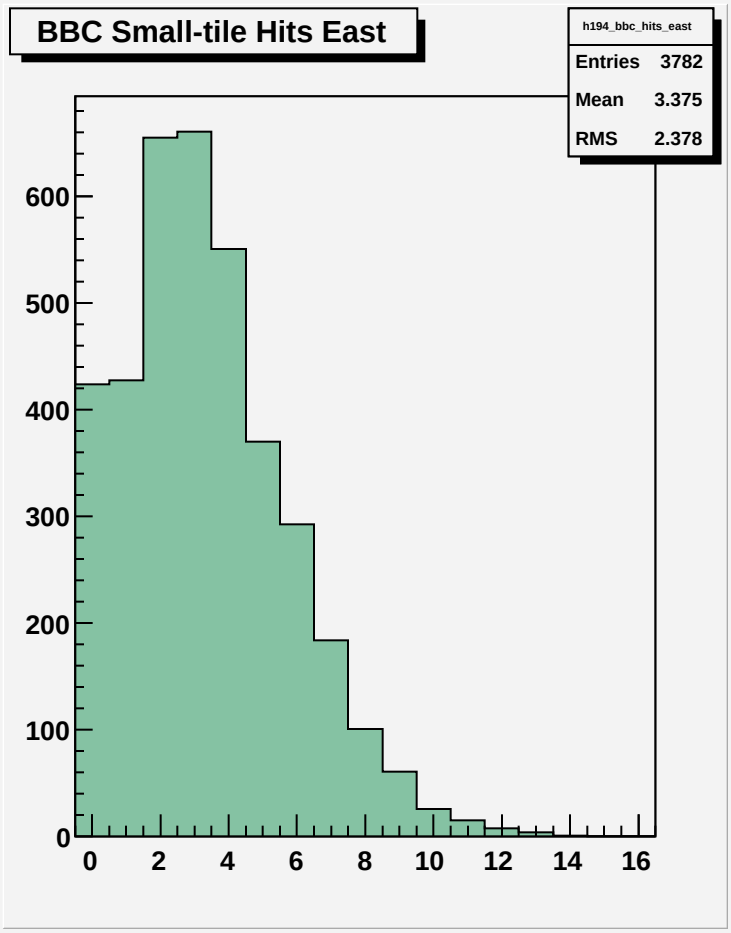
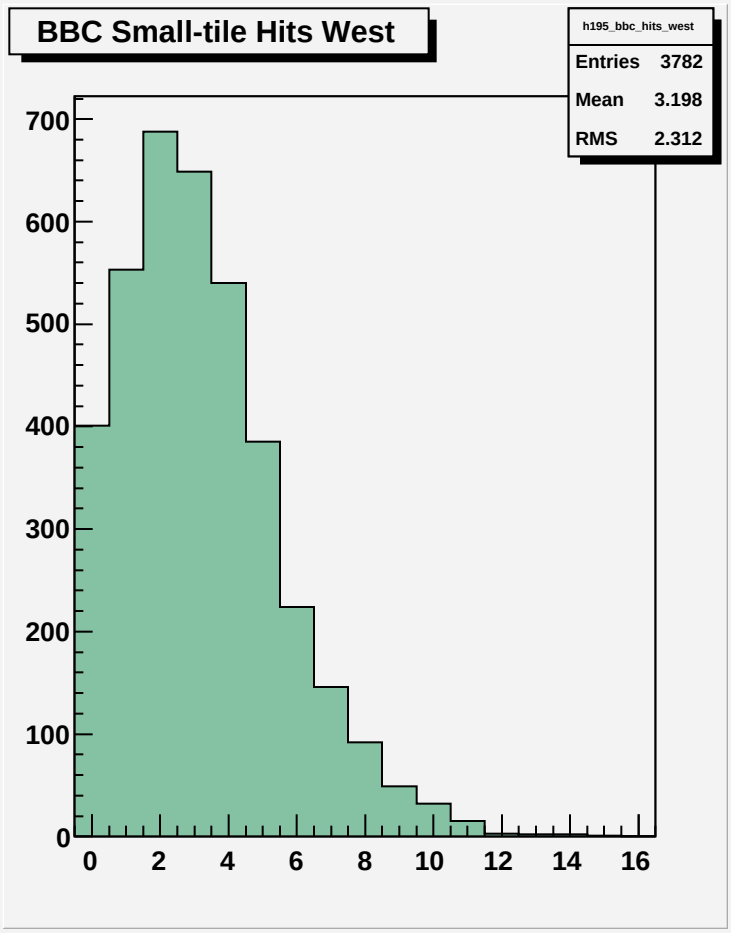
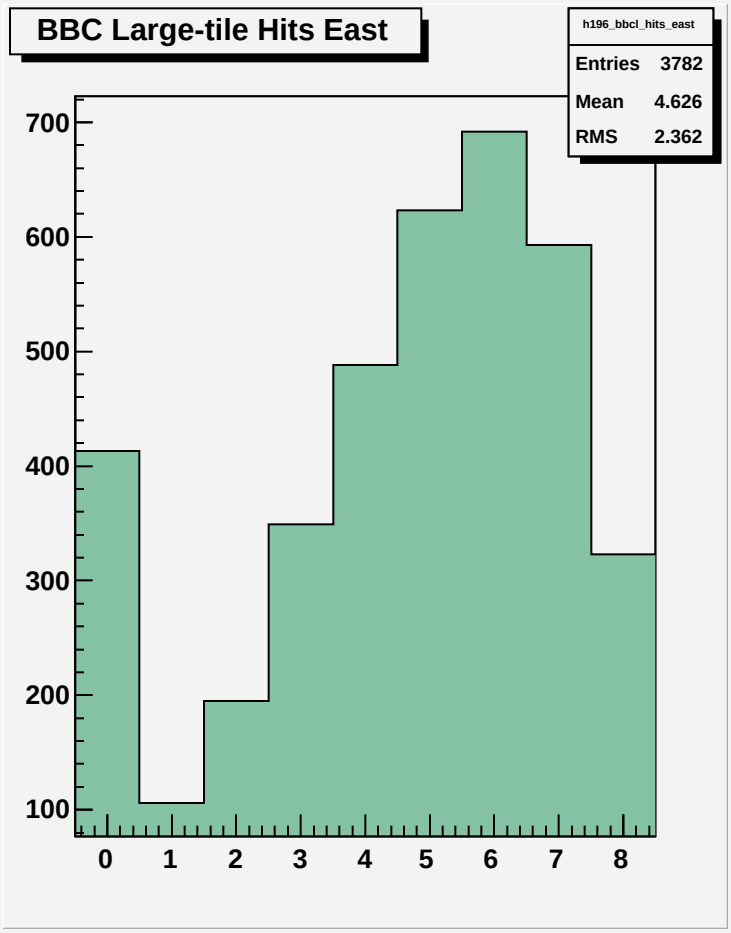
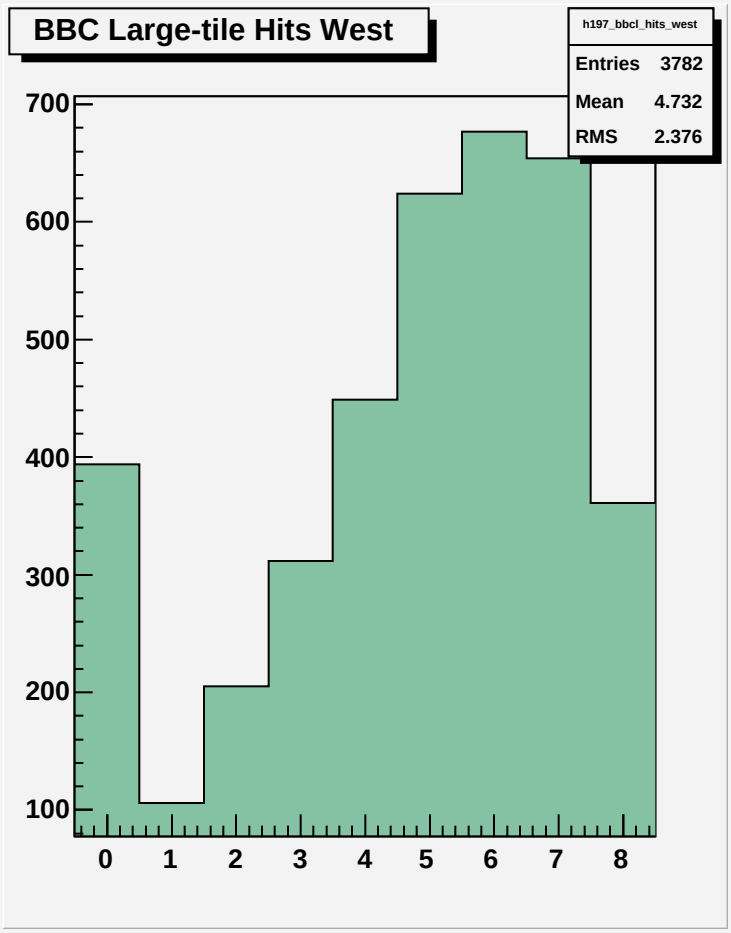
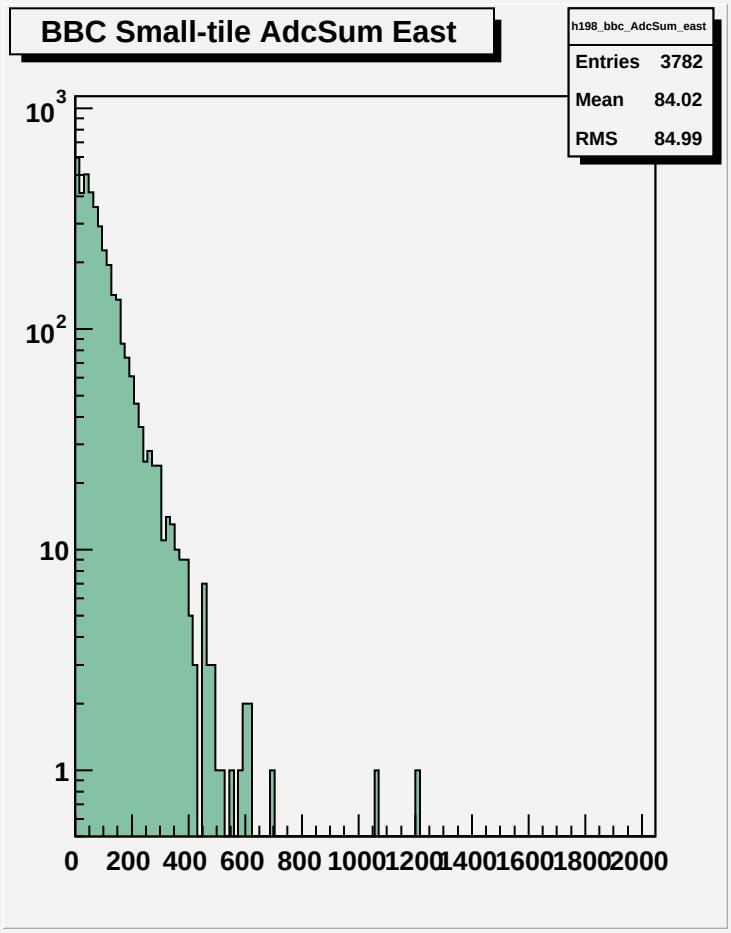
40
20
2 4 6 8 10 12 14 16 18 20 22 24

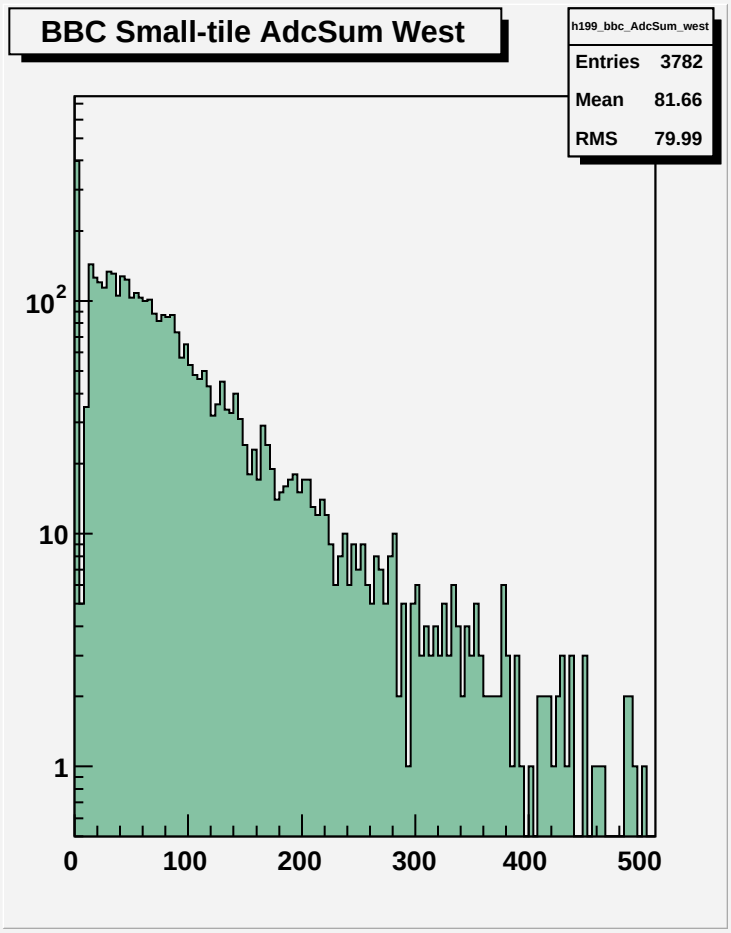

BBC Small-tile Hits East
h194_bbc_hits_east
Entries 3782
Mean 3.375
RMS 2.378
0
100
200
300
400
500
600
0 2 4 6 8 10 12 14 16

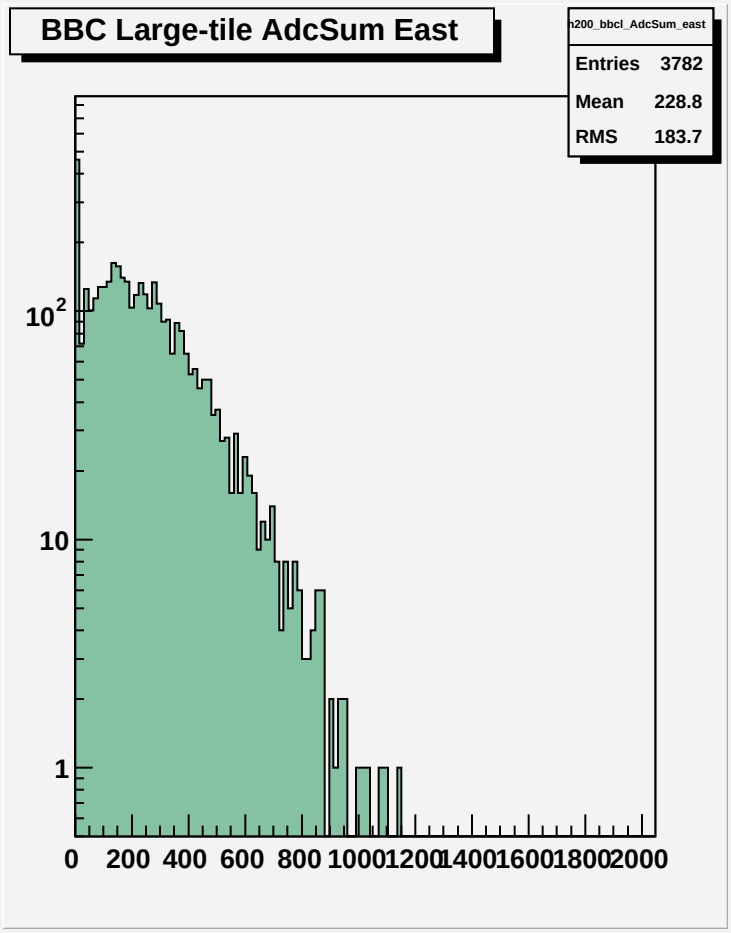

BBC Small-tile Hits West
h195_bbc_hits_west
Entries 3782
Mean 3.198
RMS 2.312
0
100
200
300
400
500
600
700
0 2 4 6 8 10 12 14 16

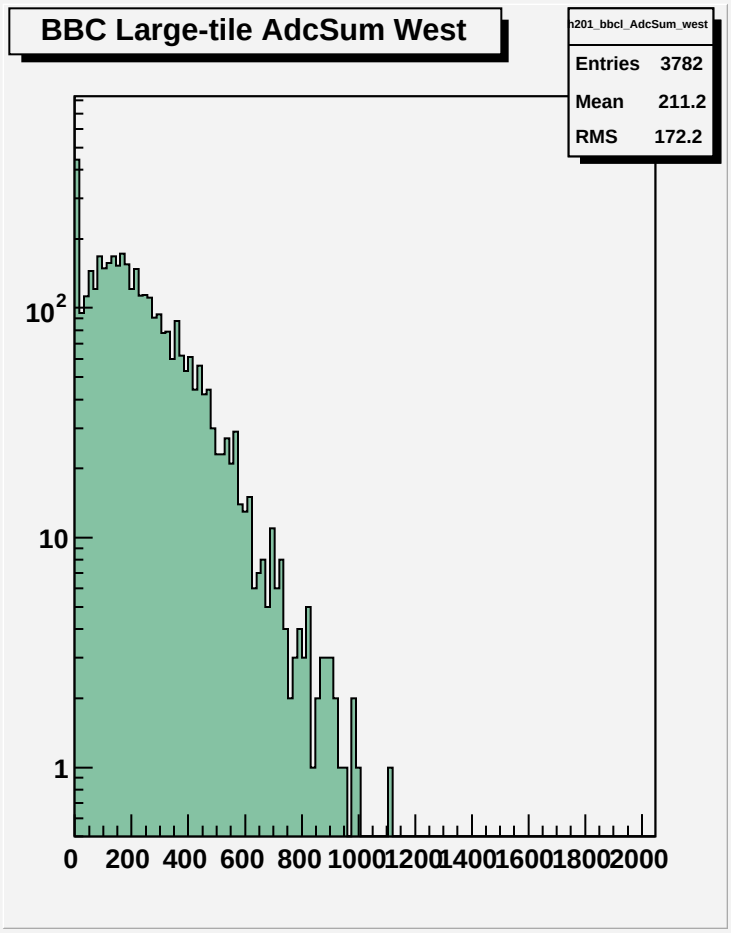

BBC Large-tile Hits East
h196_bbcl_hits_east
Entries 3782
Mean 4.626
RMS 2.362
100
200
300
400
500
600
700
0 1 2 3 4 5 6 7 8

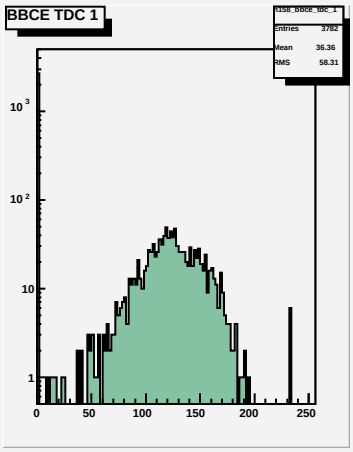

BBC Large-tile Hits West
h197_bbcl_hits_west
Entries 3782
Mean 4.732
RMS 2.376
100
200
300
400
500
600
700
0 1 2 3 4 5 6 7 8

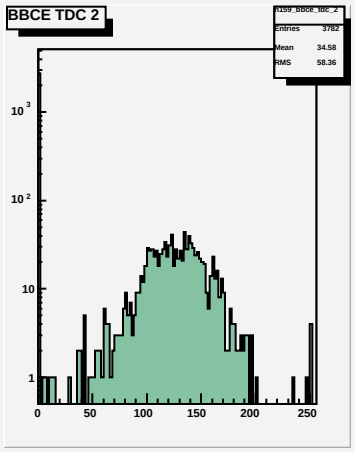

BBC Small-tile AdcSum East
h198_bbc_AdcSum_east
Entries 3782
Mean 84.02
RMS 84.99
10^3
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000

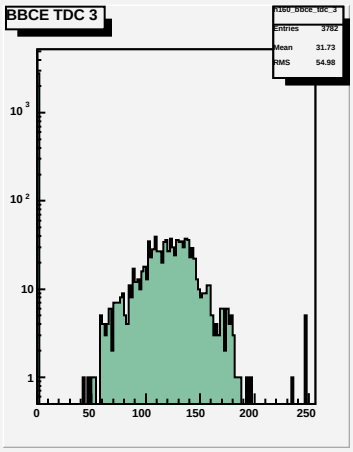

BBC Small-tile AdcSum West
h199_bbc_AdcSum_west
Entries 3782
Mean 81.66
RMS 79.99
10^2
10
1
0 100 200 300 400 500

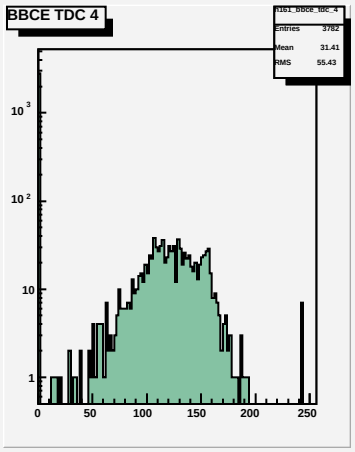

BBC Large-tile AdcSum East
h200_bbcl_AdcSum_east
Entries 3782
Mean 228.8
RMS 183.7
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000

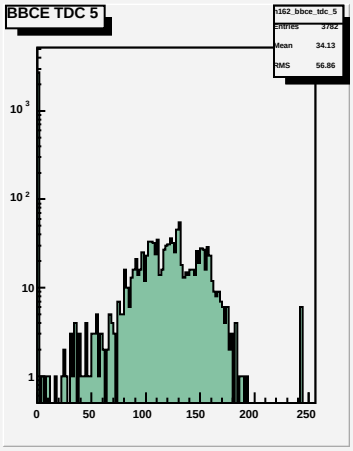

BBC Large-tile AdcSum West
h201_bbcl_AdcSum_west
Entries 3782
Mean 211.2
RMS 172.2
10^2
10
1
0 200 400 600 800 1000 1200 1400 1600 1800 2000

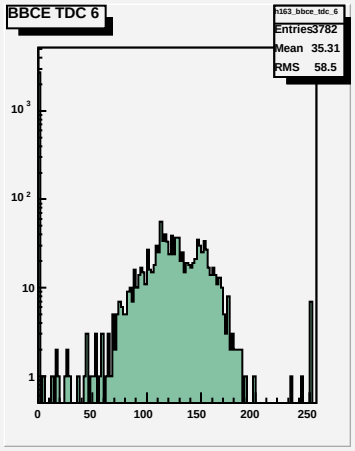

BBCE TDC 1
h158_bbce_tdc_1
Entries 3782
Mean 36.36
RMS 58.31


BBCE TDC 2
h159_bbce_tdc_2
Entries 3782
Mean 34.58
RMS 58.36


BBCE TDC 3
h160_bbce_tdc_3
Entries 3782
Mean 31.73
RMS 54.98


BBCE TDC 4
h161_bbce_tdc_4
Entries 3782
Mean 31.41
RMS 55.43


BBCE TDC 5
h162_bbce_tdc_5
Entries 3782
Mean 34.13
RMS 56.86


BBCE TDC 6
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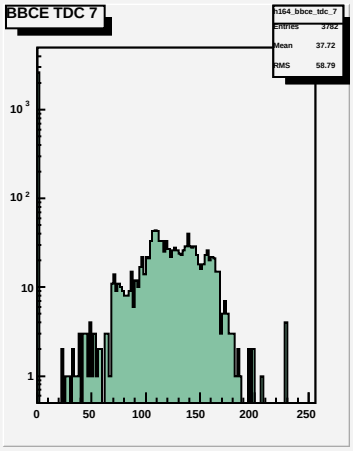
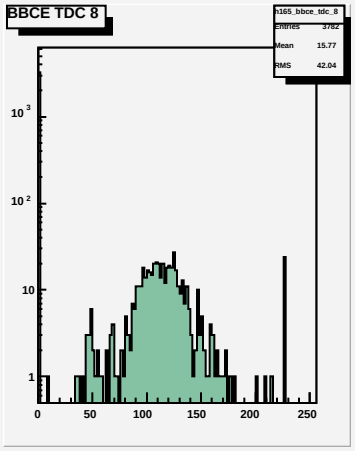
Entries 3782
Mean 35.31
RMS 58.5


BBCE TDC 7
h164_bbce_tdc_7
Entries 3782
Mean 37.72
RMS 58.79


BBCE TDC 8
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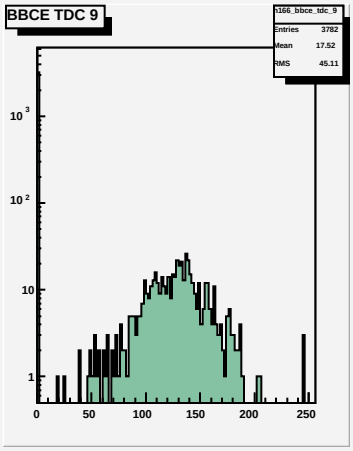
Entries 3782
Mean 15.77
RMS 42.04


BBCE TDC 9
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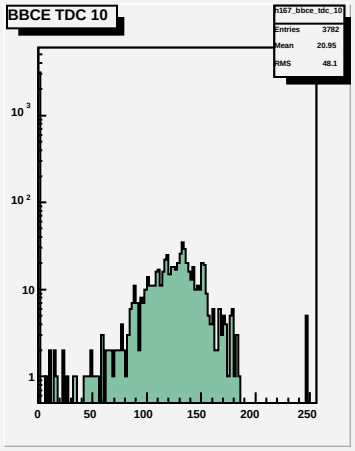
Entries 3782
Mean 17.52
RMS 45.11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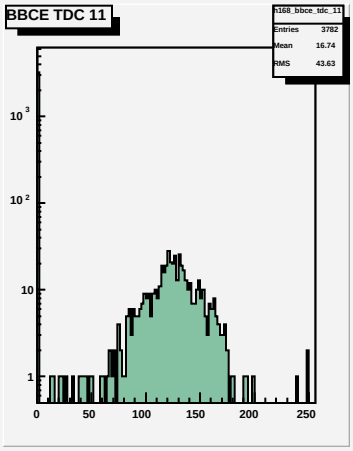
Entries 3782
Mean 20.95
RMS 48.1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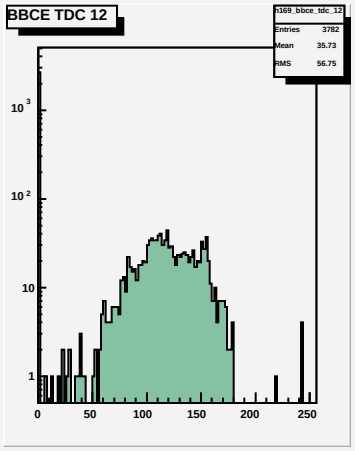
Mean 16.74
RMS 43.63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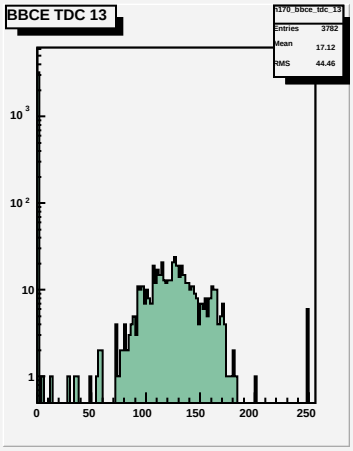
Entries 3782
Mean 35.73
RMS 56.75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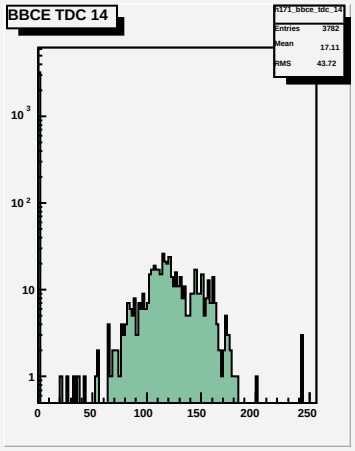
Entries 3782
Mean 17.12
RMS 44.46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Entries 3782
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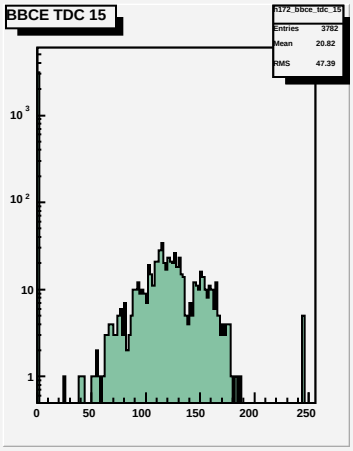
RMS 43.72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Entries 3782
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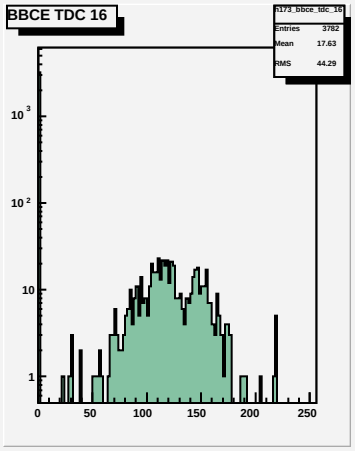
RMS 47.39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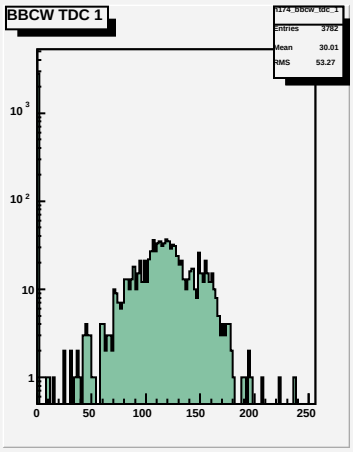
Entries 3782
Mean 17.63
RMS 44.29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Entries 3782
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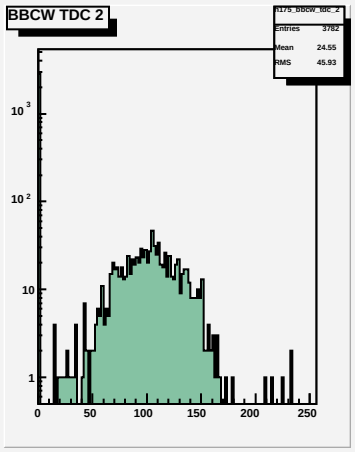
RMS 53.27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Entries 3782
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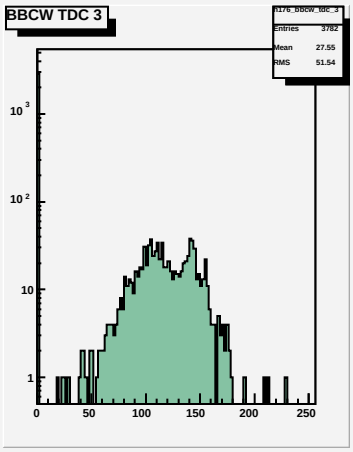
RMS 45.93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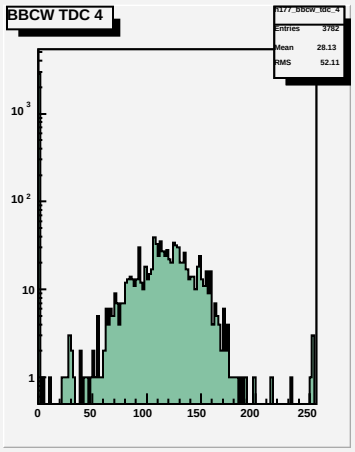
Entries 3782
Mean 27.55
RMS 51.54


BBCW TDC 4
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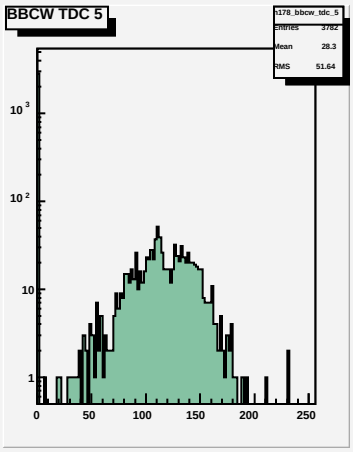
Entries 3782
Mean 28.13
RMS 52.11


BBCW TDC 5
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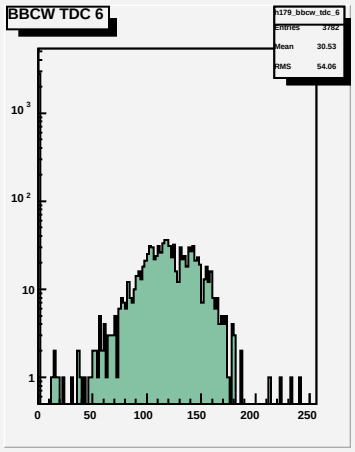
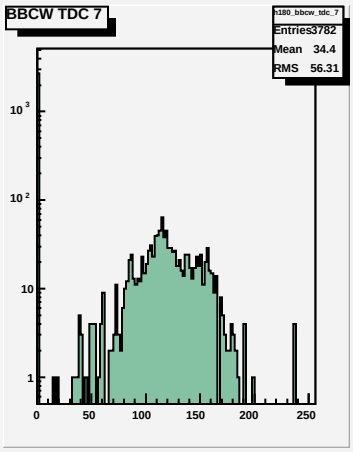
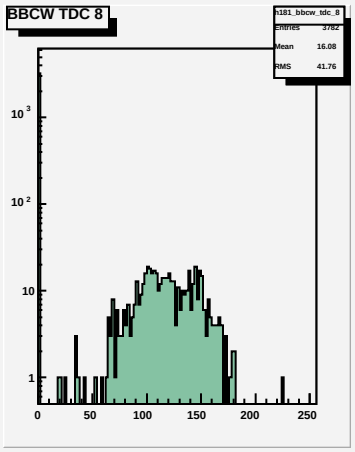
Entries 3782
Mean 28.3
RMS 51.64


BBCW TDC 6
h179_bbcw_tdc_6
Entries 3782
Mean 30.53
RMS 54.06


BBCW TDC 7
h180_bbcw_tdc_7
Entries 3782
Mean 34.4
RMS 56.31


BBCW TDC 8
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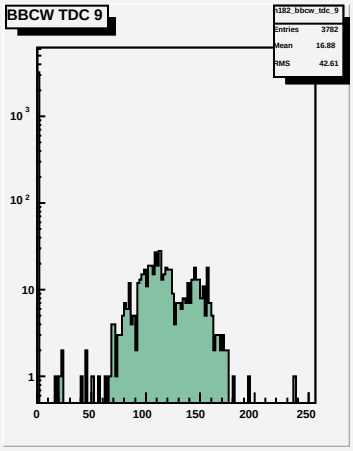
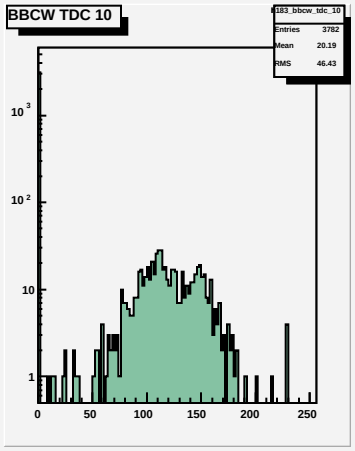
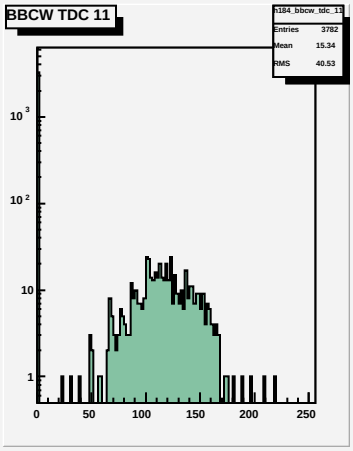
Entries 3782
Mean 16.08
RMS 41.76


BBCW TDC 9
h182_bbcw_tdc_9
Entries 3782
Mean 16.88
RMS 42.61


BBCW TDC 10
h183_bbcw_tdc_10
Entries 3782
Mean 20.19
RMS 46.43


BBCW TDC 11
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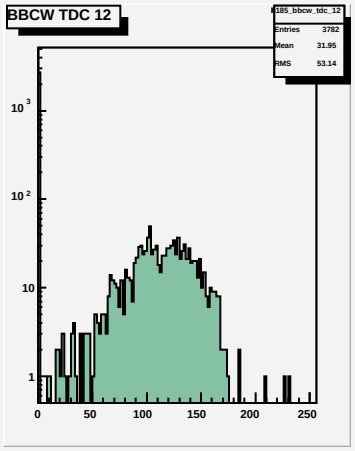
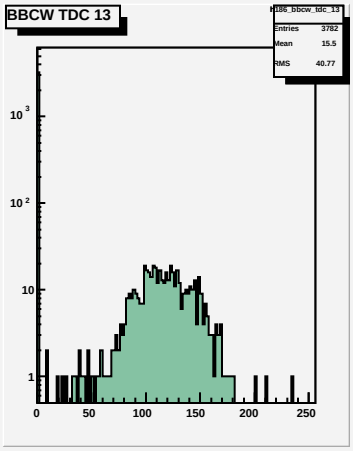
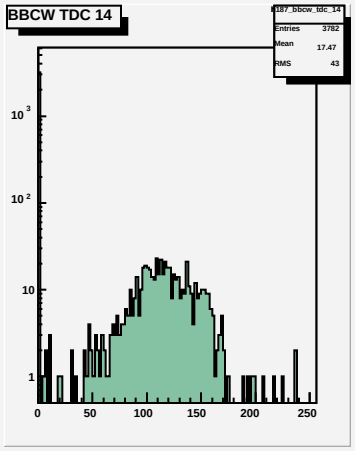
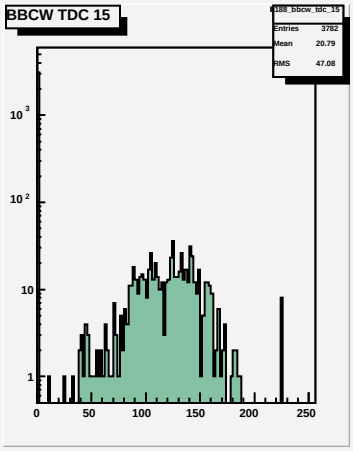
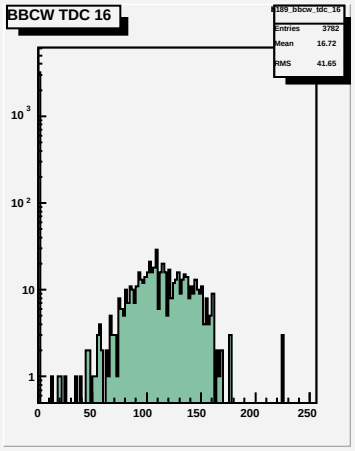
Entries 3782
Mean 15.34
RMS 40.53

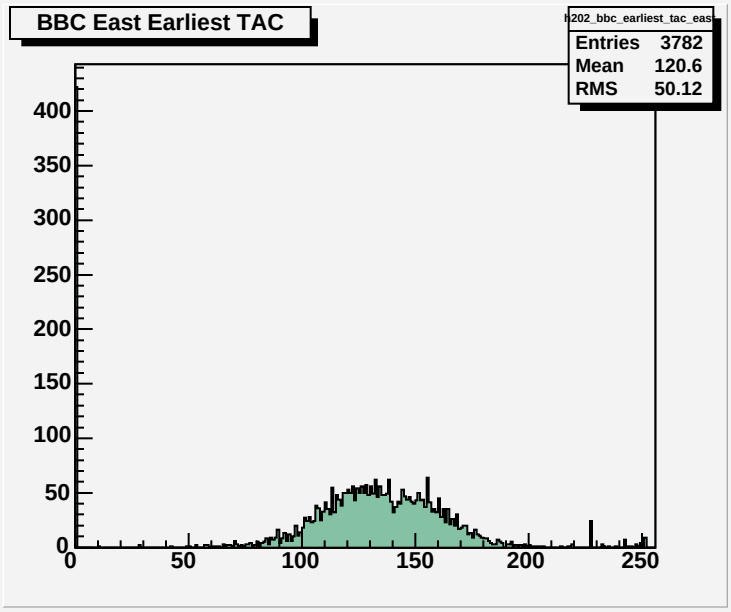

BBCW TDC 12
h185_bbcw_tdc_12
Entries 3782
Mean 31.95
RMS 53.14

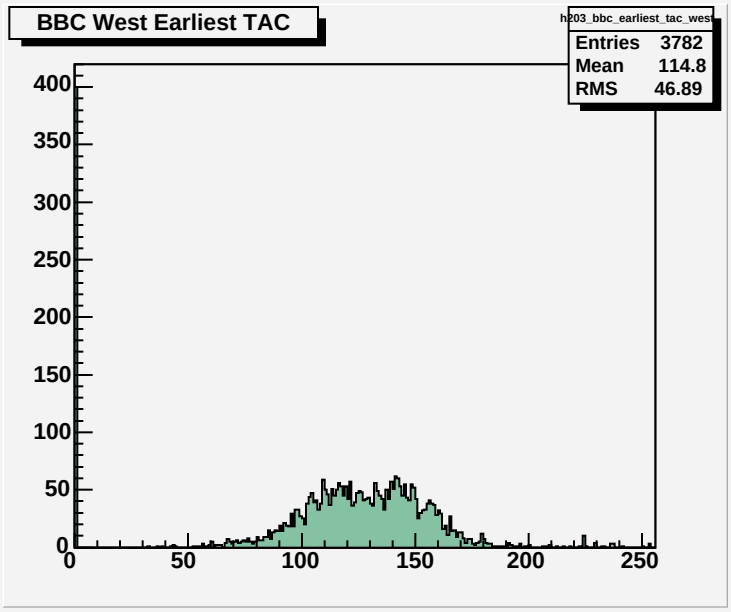

BBCW TDC 13
h186_bbcw_tdc_13
Entries 3782
Mean 15.5
RMS 40.77

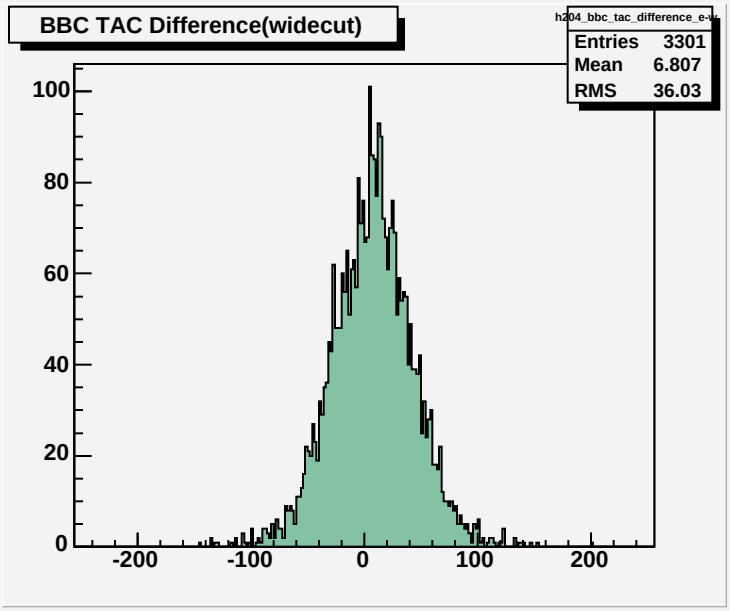

BBCW TDC 14
h187_bbcw_tdc_14
Entries 3782
Mean 17.47
RMS 43

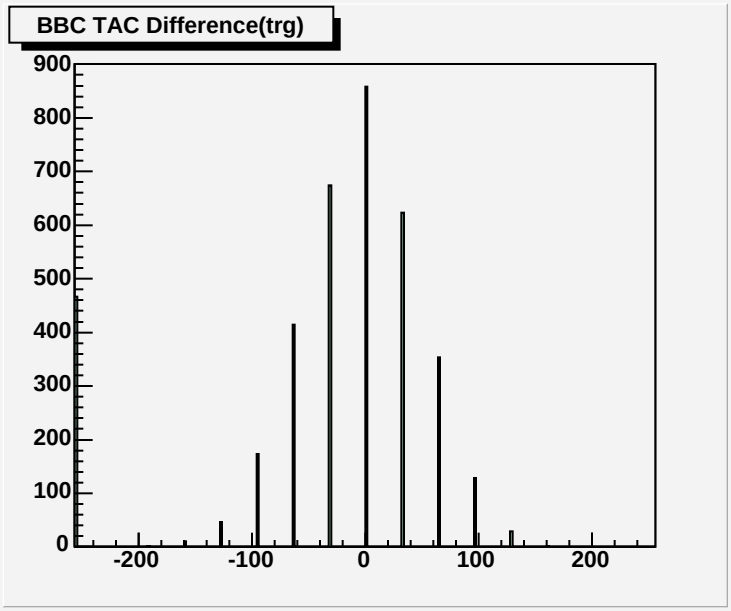

BBCW TDC 15
h188_bbcw_tdc_15
Entries 3782
Mean 20.79
RMS 47.08

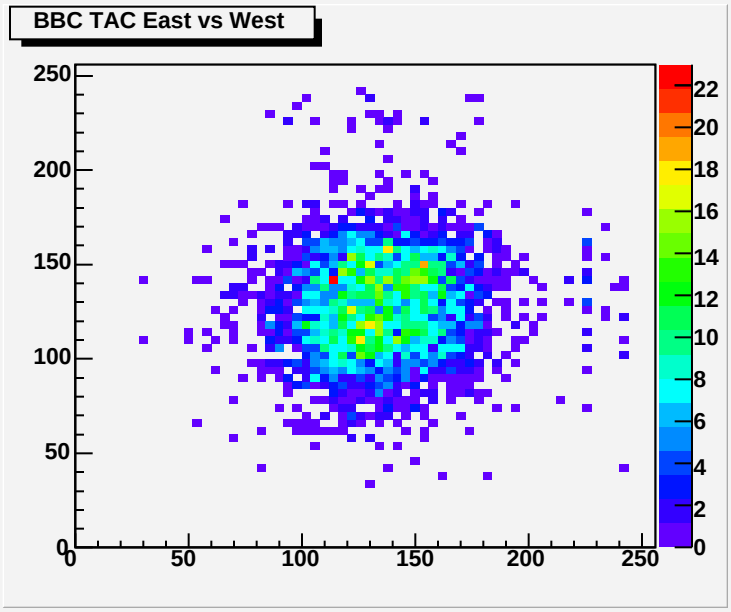

BBCW TDC 16
h189_bbcw_tdc_16
Entries 3782
Mean 16.72
RMS 41.65

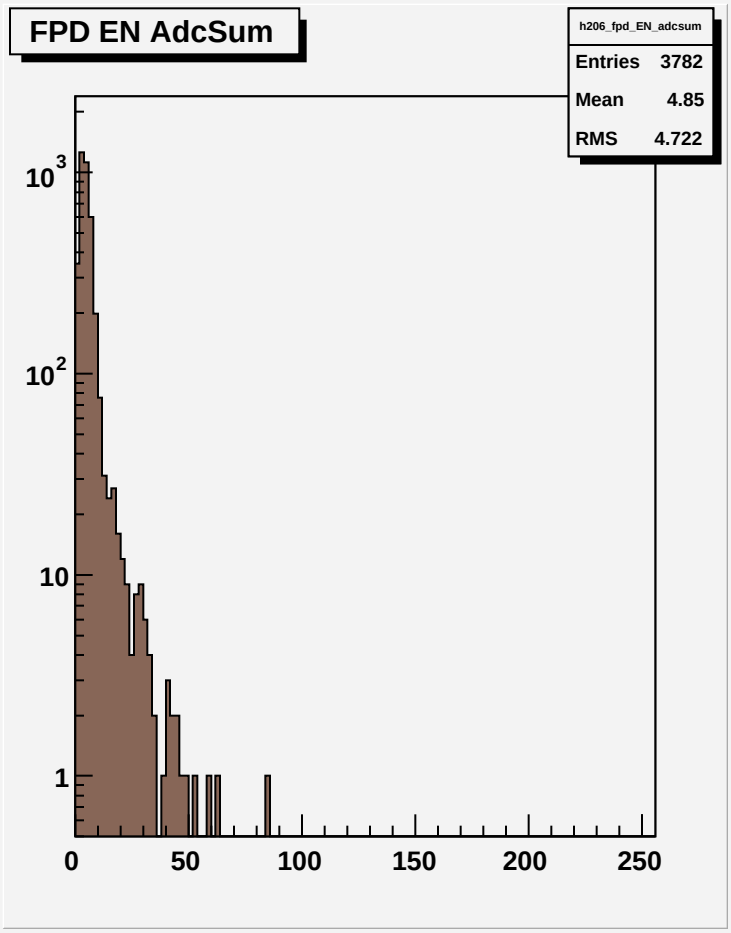

BBC East Earliest TAC
h202_bbc_earliest_tac_east
Entries 3782
Mean 120.6
RMS 50.12

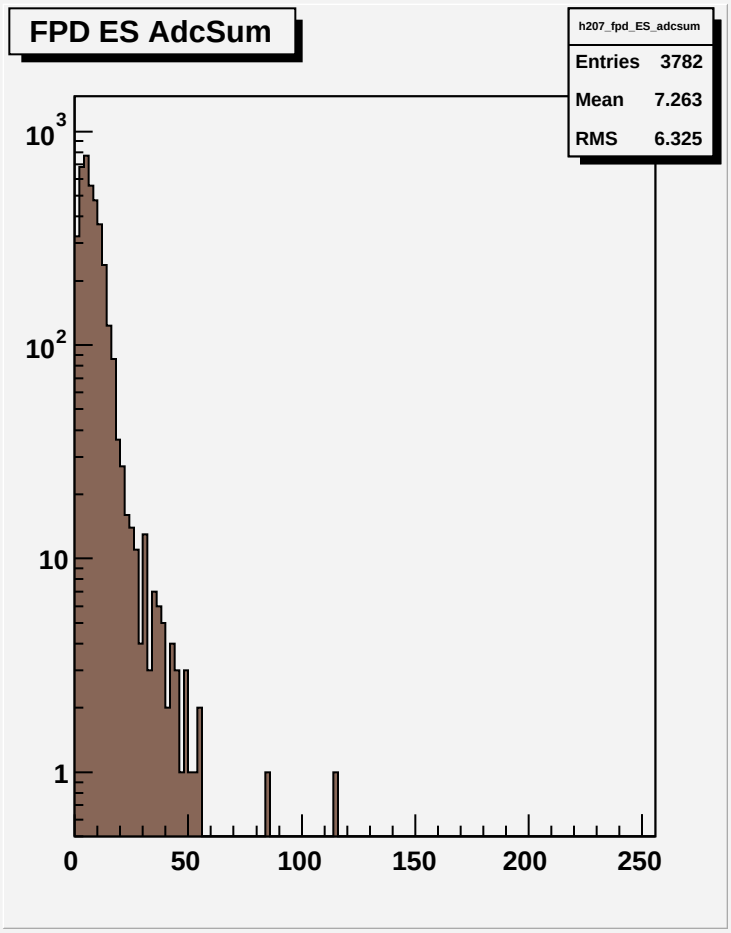

BBC West Earliest TAC
h203_bbc_earliest_tac_west
Entries 3782
Mean 114.8
RMS 46.89


BBC TAC Difference(widecut)
h204_bbc_tac_difference_e-w
Entries 3301
Mean 6.807
RMS 36.03


BBC TAC Difference(trg)


BBC TAC East vs West


FPD EN AdcSum
h206_fpd_EN_adcsum
Entries 3782
Mean 4.85
RMS 4.722
10^3
10^2
10
1
0
50
100
150
200
250


FPD ES AdcSum
h207_fpd_ES_adcsum
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Mean 7.263
RMS 6.325
10^3
10^2
10
1
0
50
100
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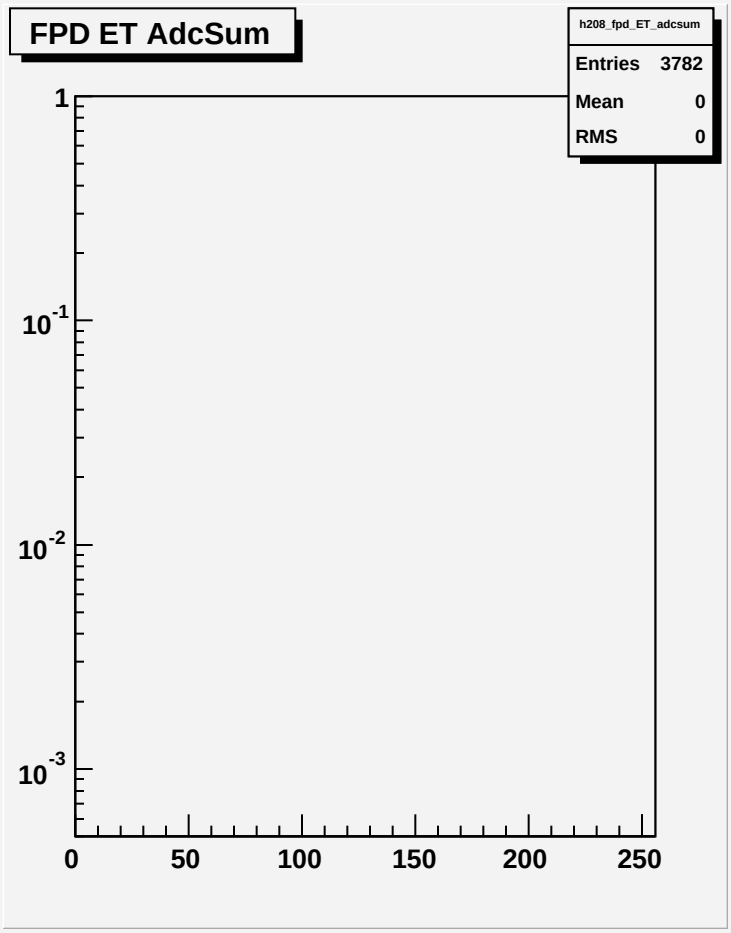
200
250


FPD ET AdcSum
h208_fpd_ET_adcsum
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Mean 0
RMS 0
1
10^{-1}
10^{-2}
10^{-3}
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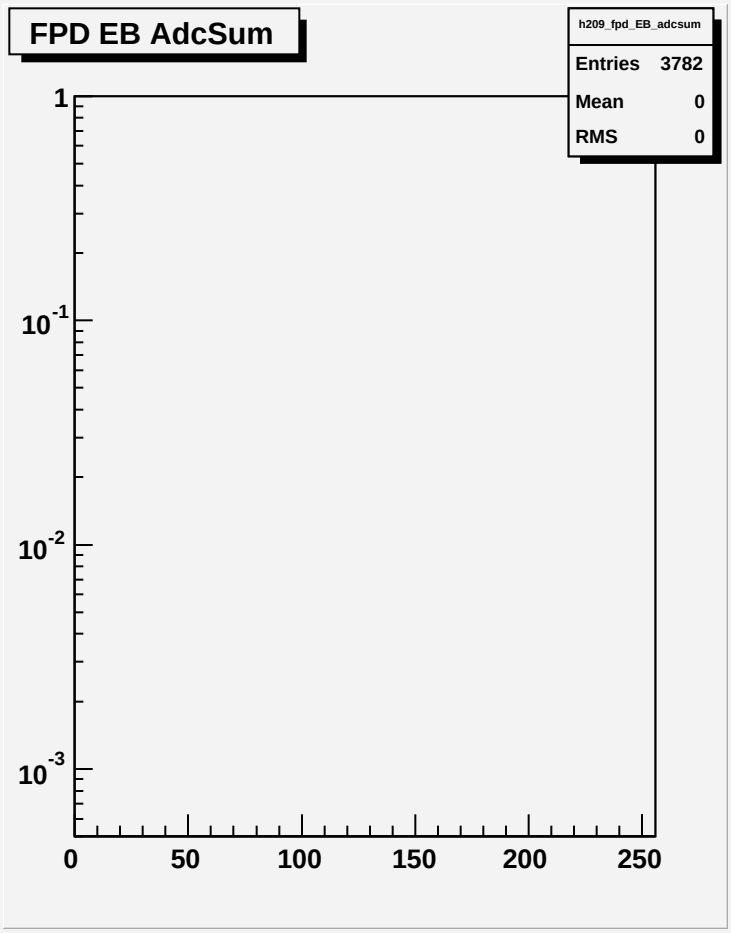
100
150
200
250


FPD EB AdcSum
h209_fpd_EB_adcsum
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10^{-2}
10^{-3}
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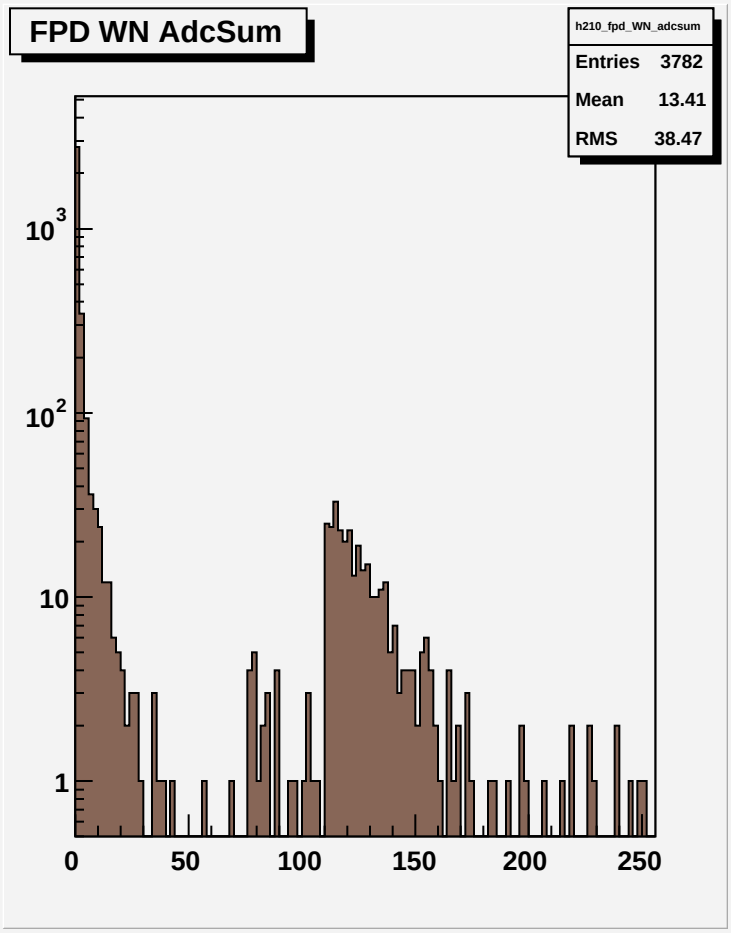
FPD WN AdcSum
h210_fpd_WN_adcsum
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Mean 13.41
RMS 38.47
10^3
10^2
10
1
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100
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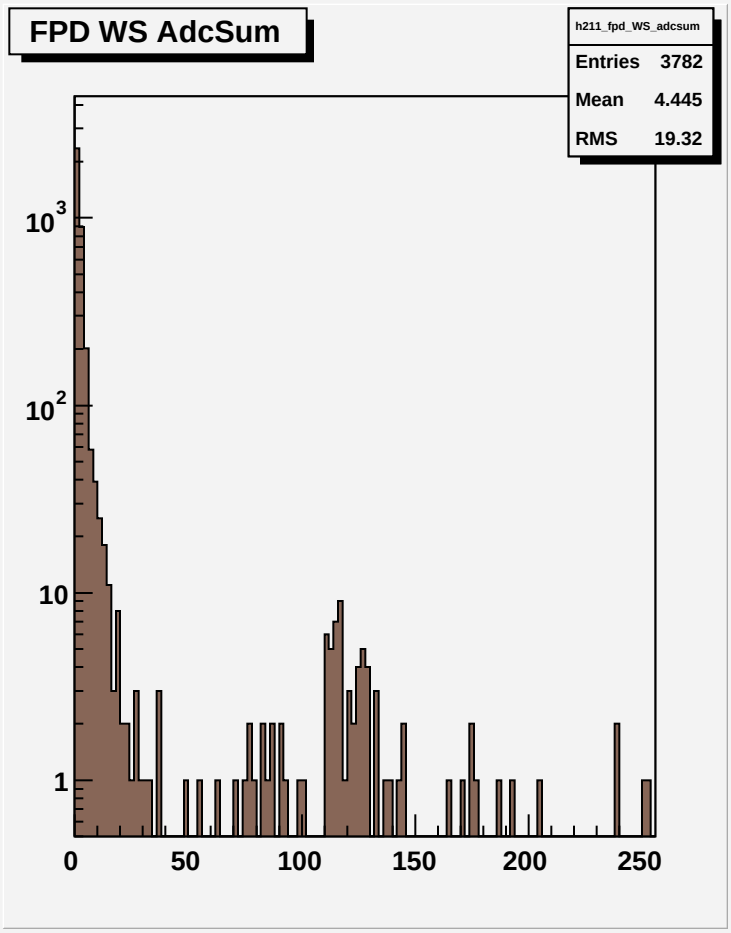
250


FPD WS AdcSum
h211_fpd_WS_adcsum
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Mean 4.445
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10^2
10
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100
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200
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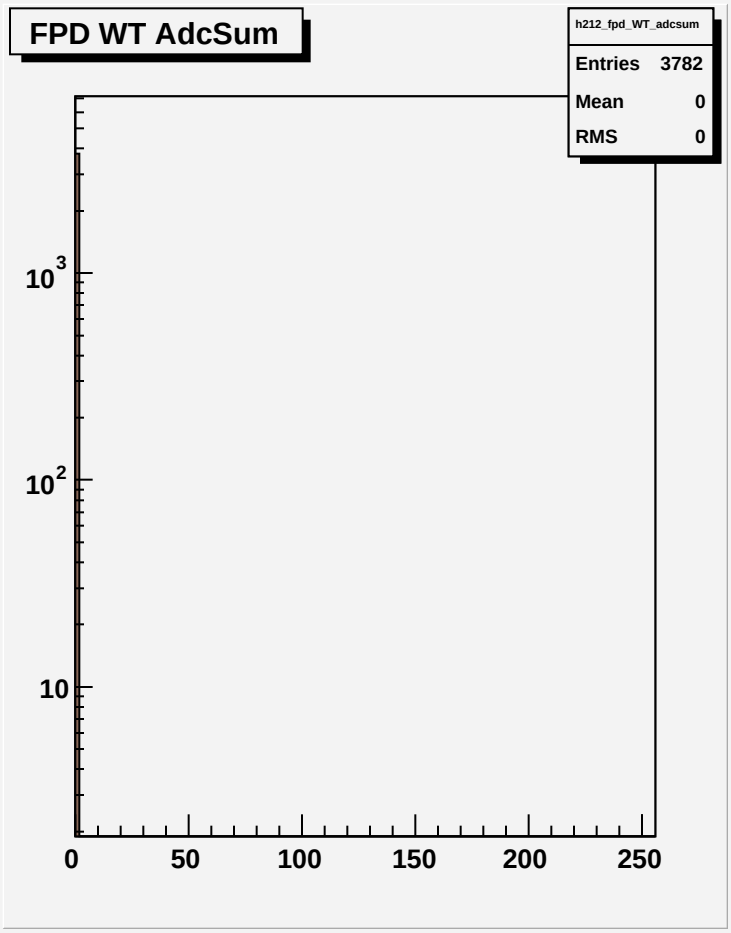
FPD WT AdcSum
h212_fpd_WT_adcsum
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10^3
10^2
10
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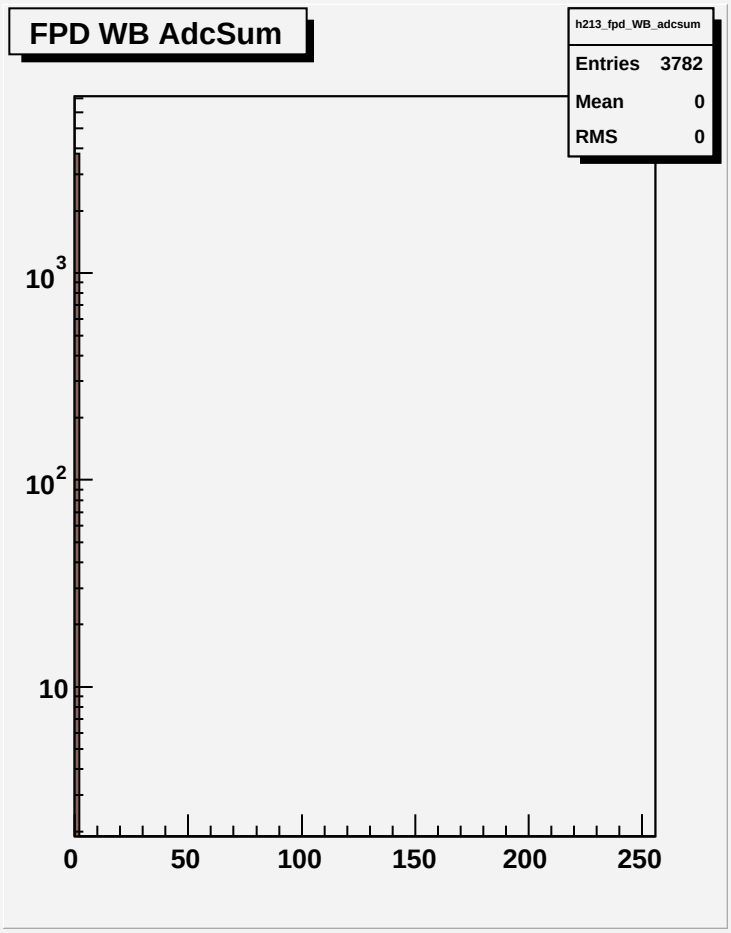
FPD WB AdcSum
h213_fpd_WB_adcsum
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10^2
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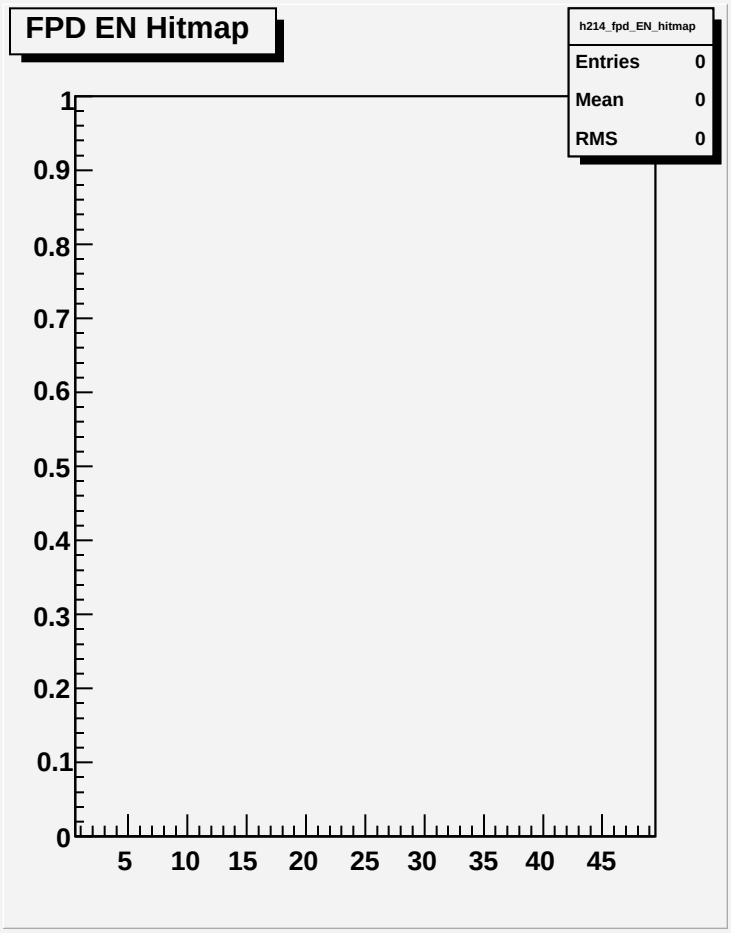
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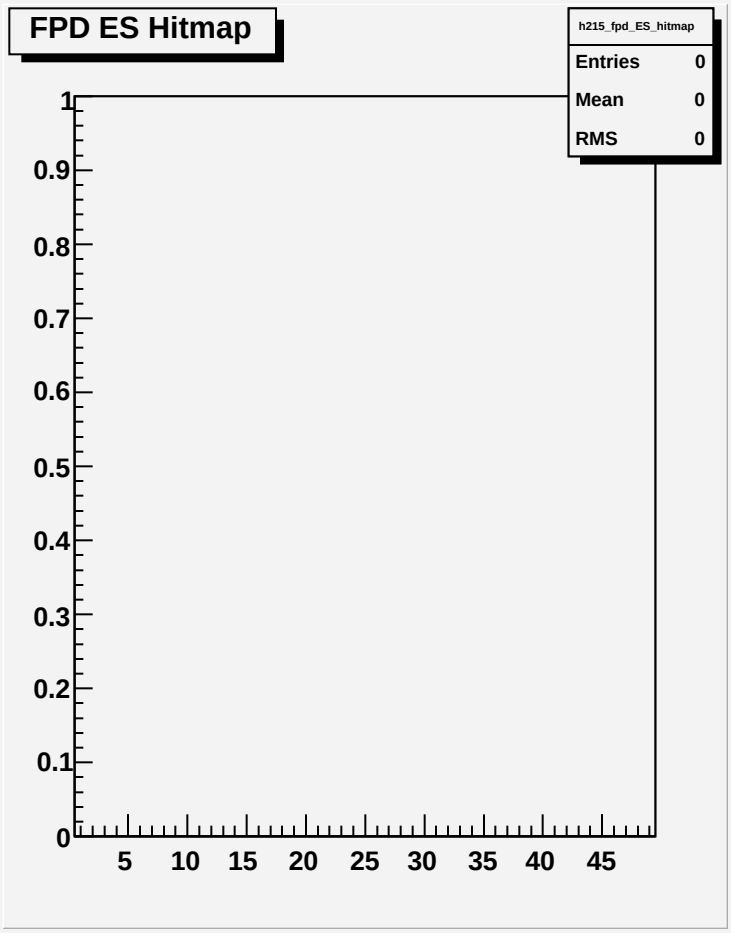
0.2
0.1
0
5 10 15 20 25 30 35 40 45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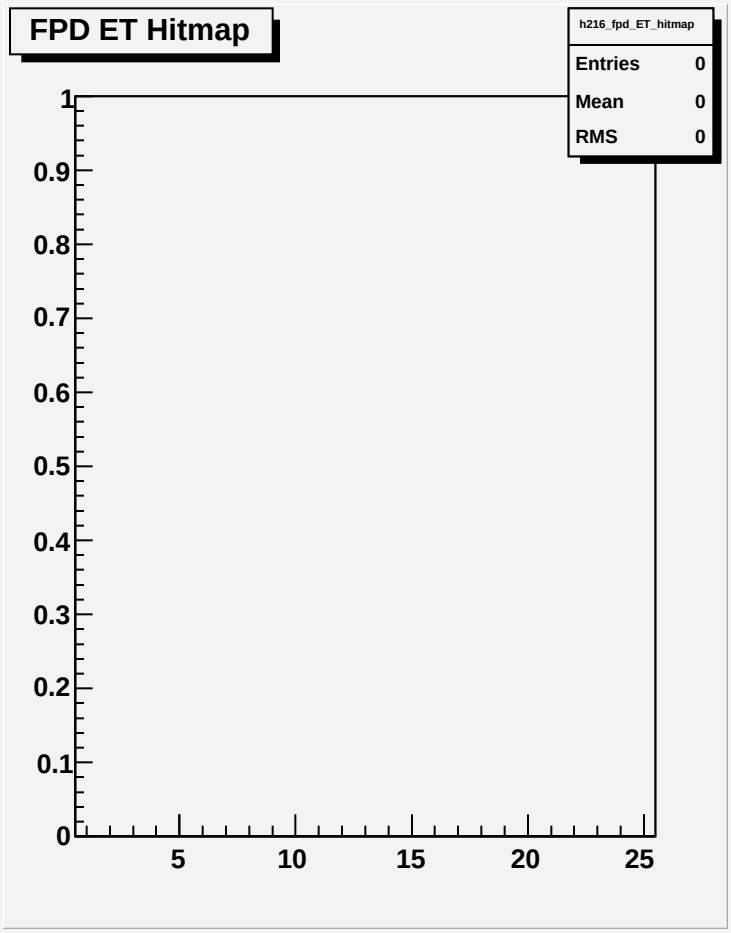
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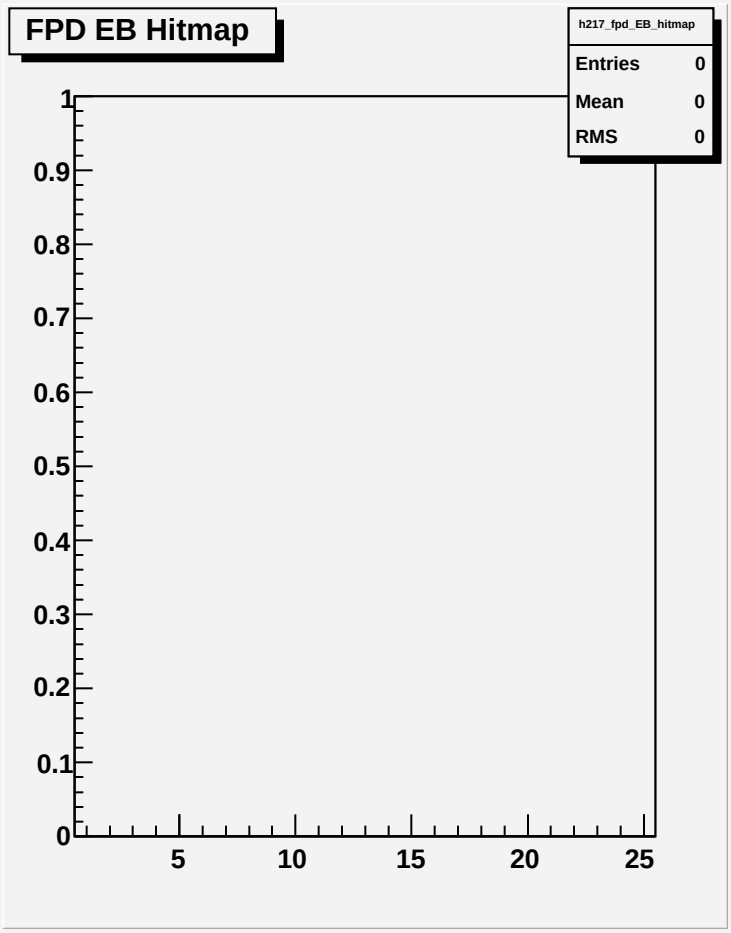
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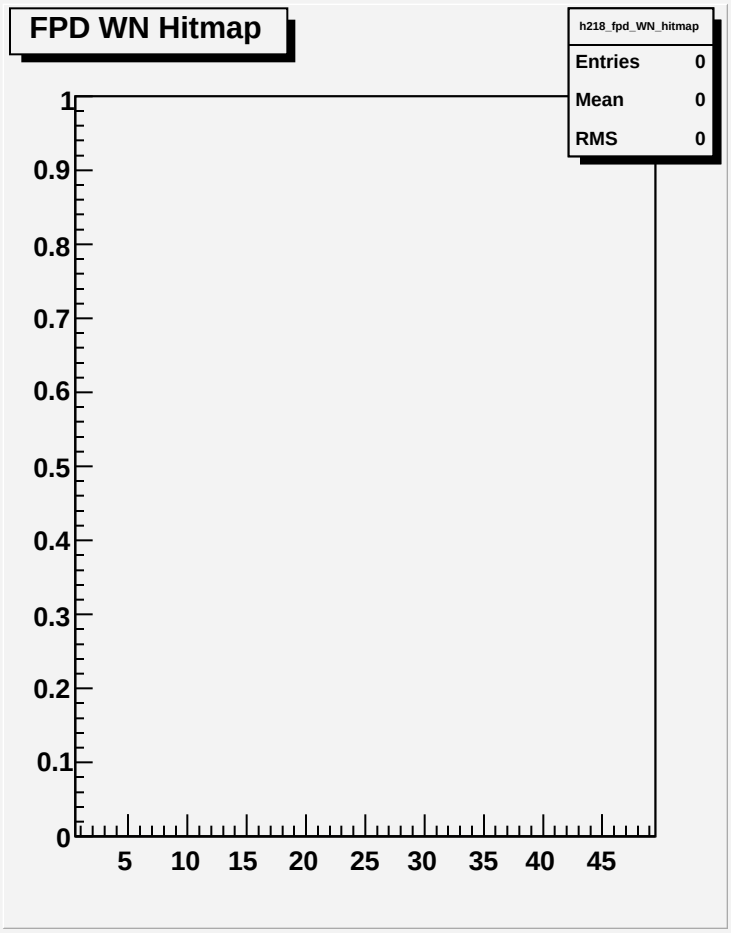
FPD WN Hitmap
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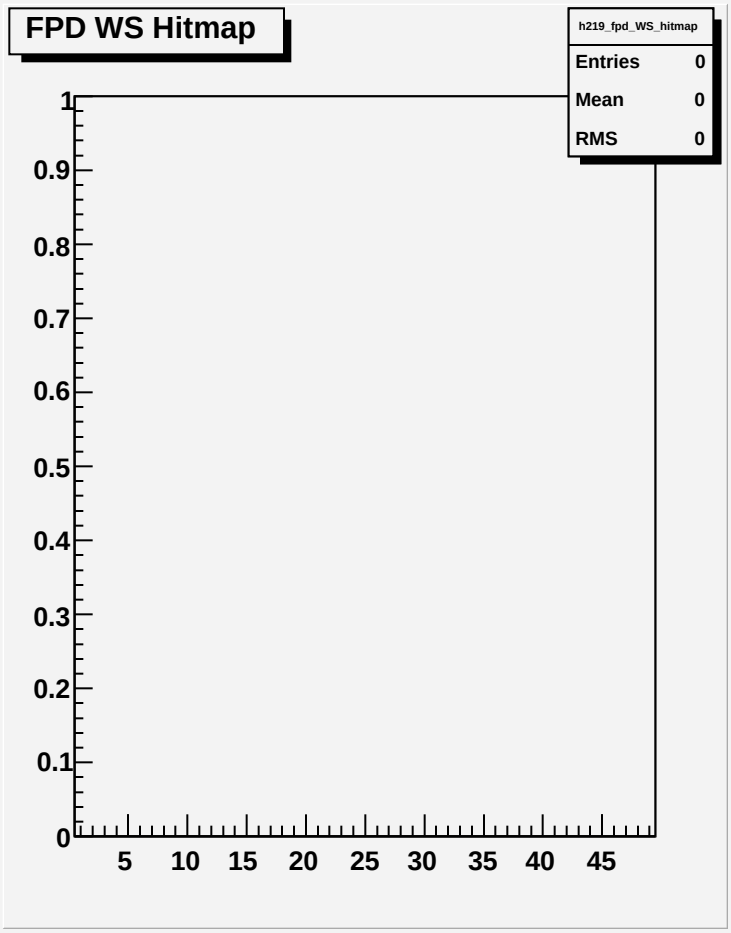
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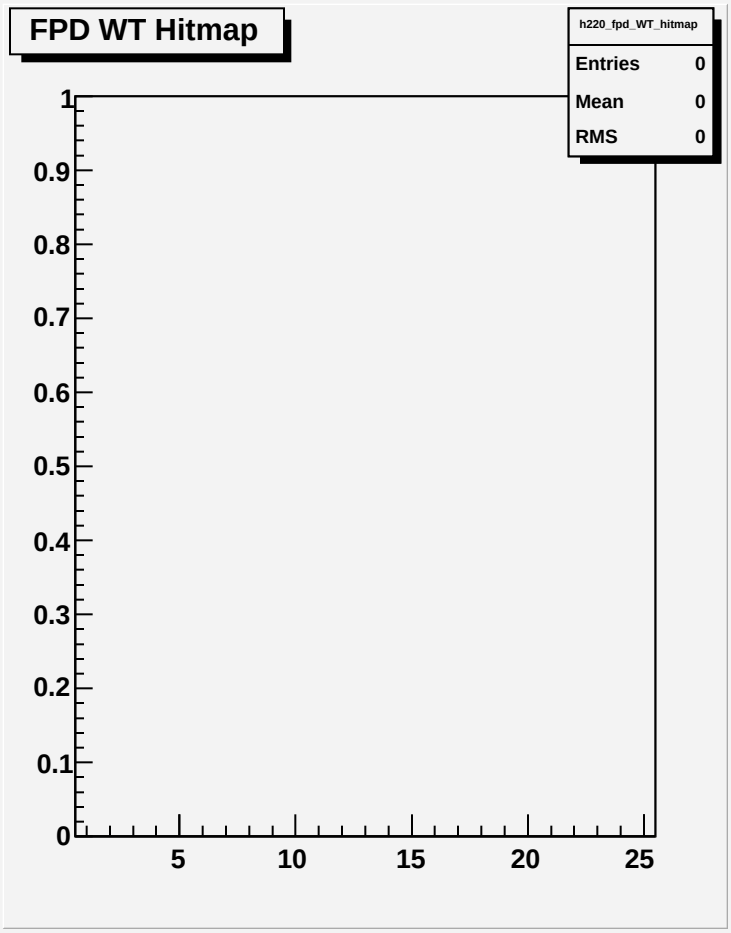
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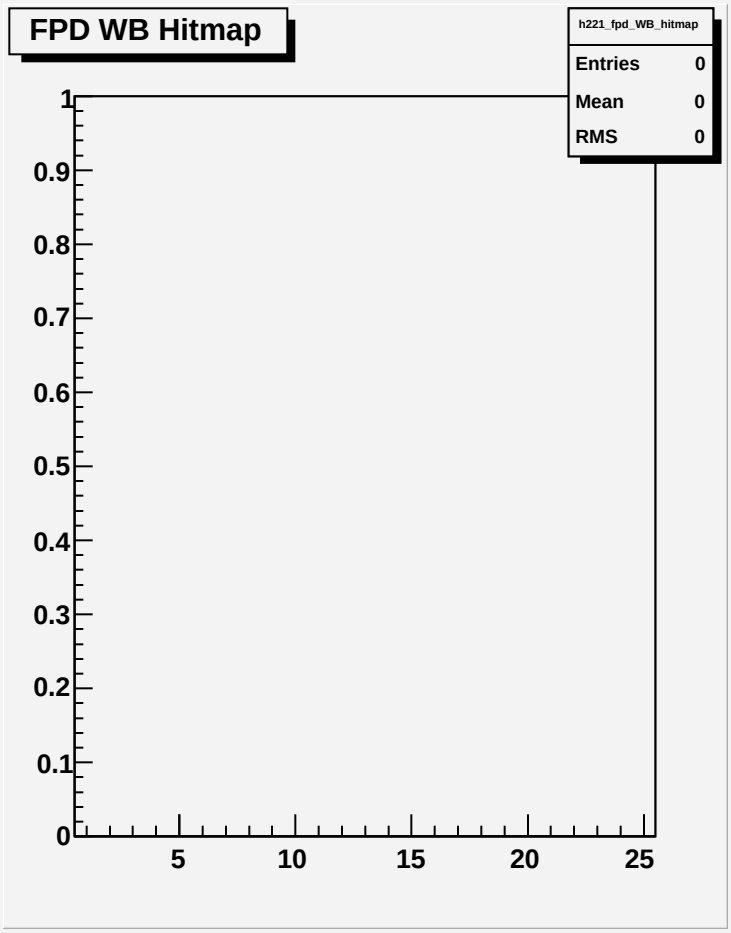
FPD WB Hitmap
h221_fpd_WB_hitmap
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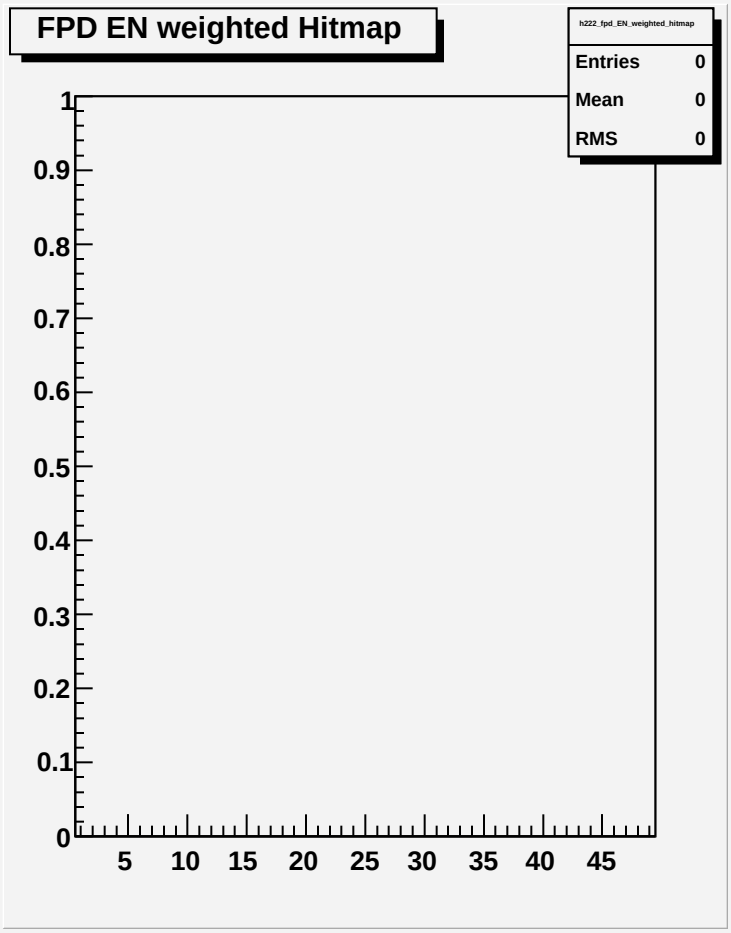
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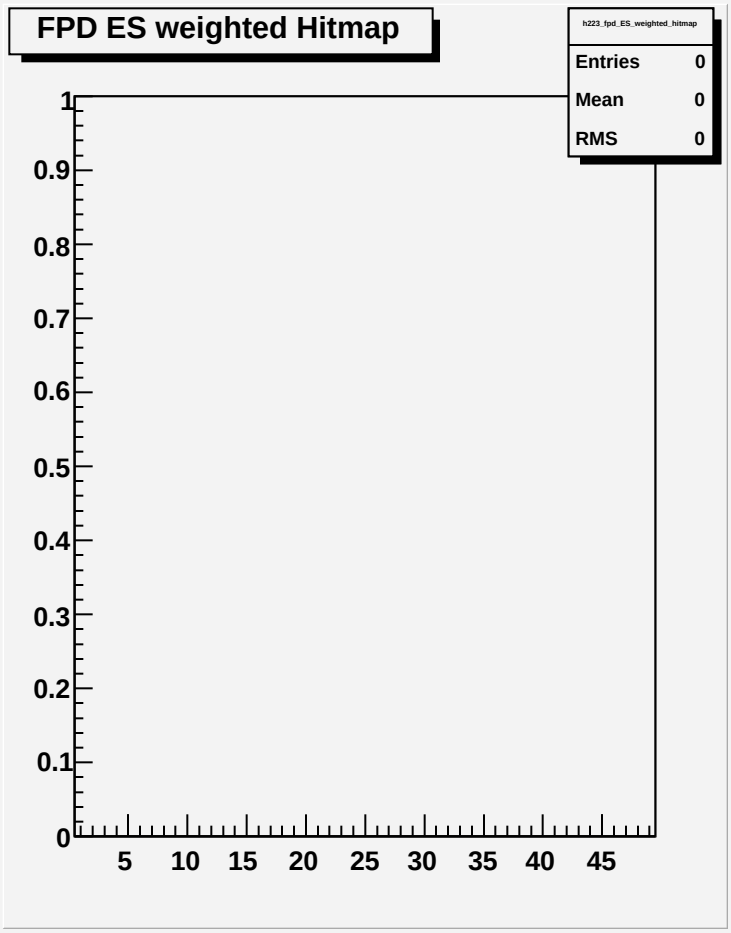
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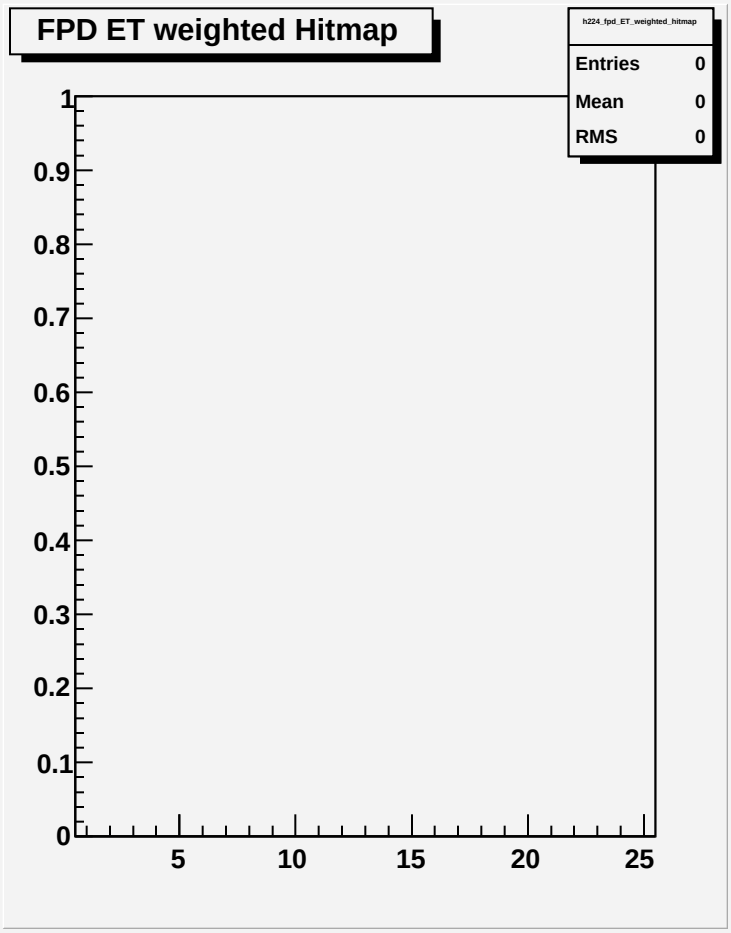
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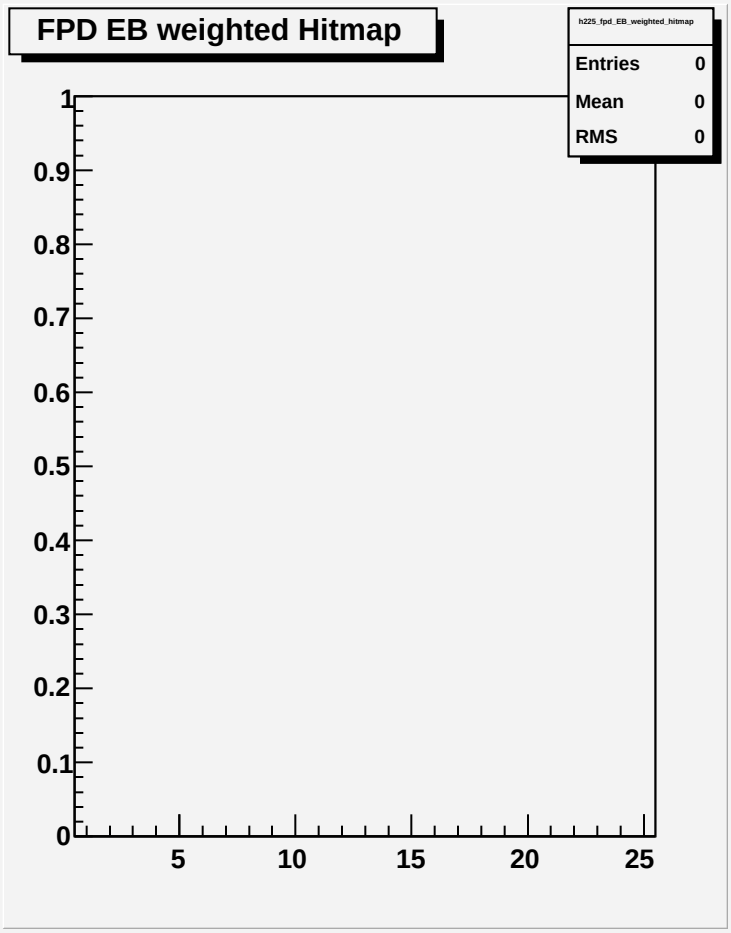
FPD EB weighted Hitmap
h225_fpd_EB_weighted_hitmap
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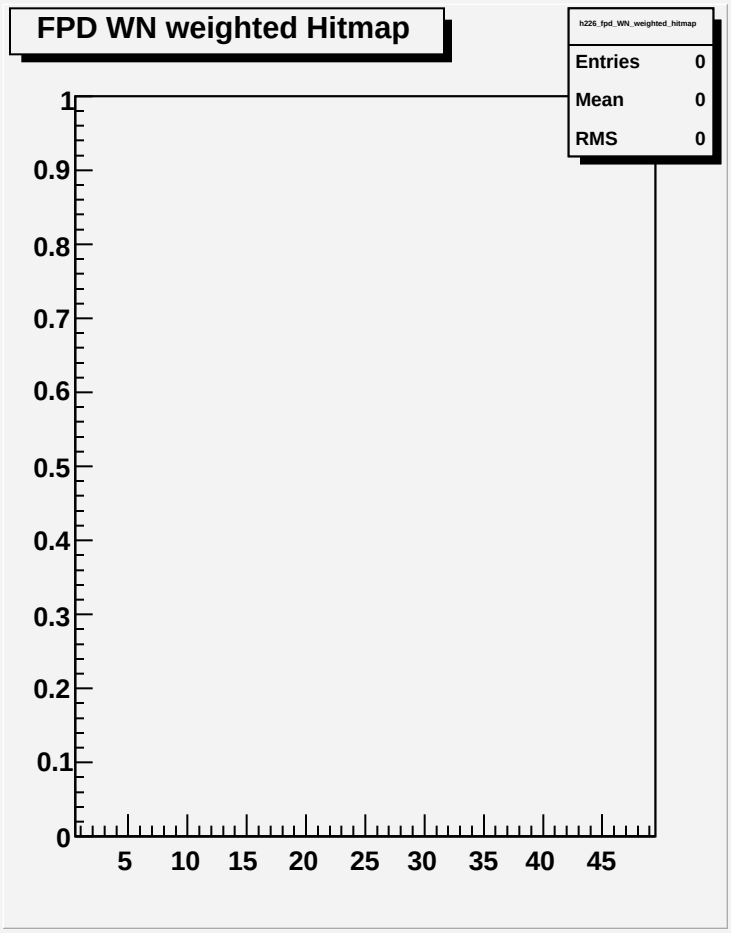
5 10 15 20 25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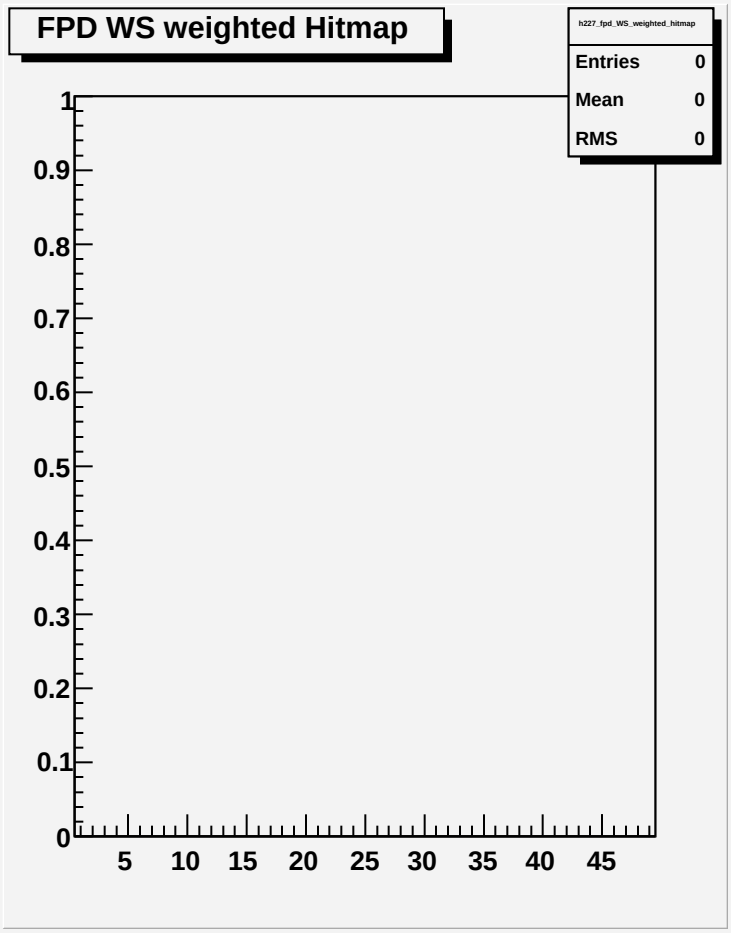
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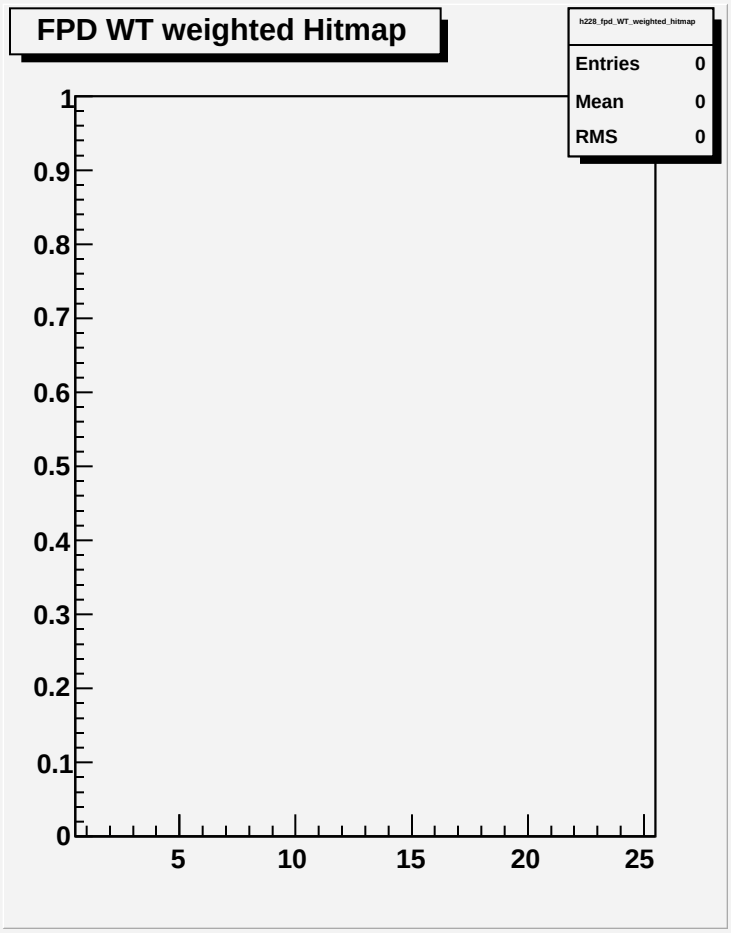
FPD WT weighted Hitmap
h228_fpd_WT_weighted_hitmap
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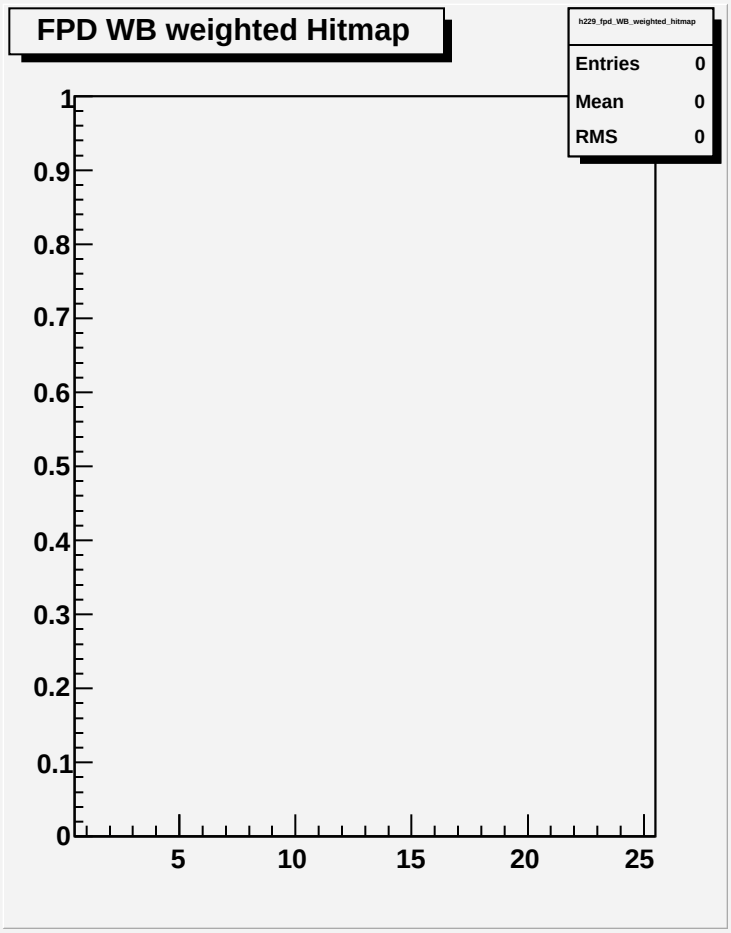
5 10 15 20 25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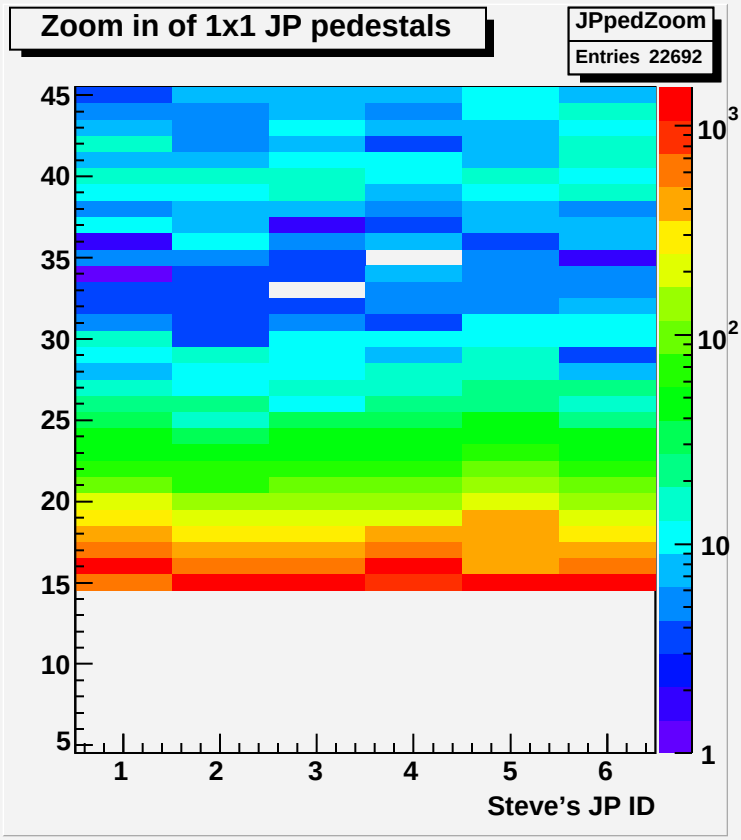
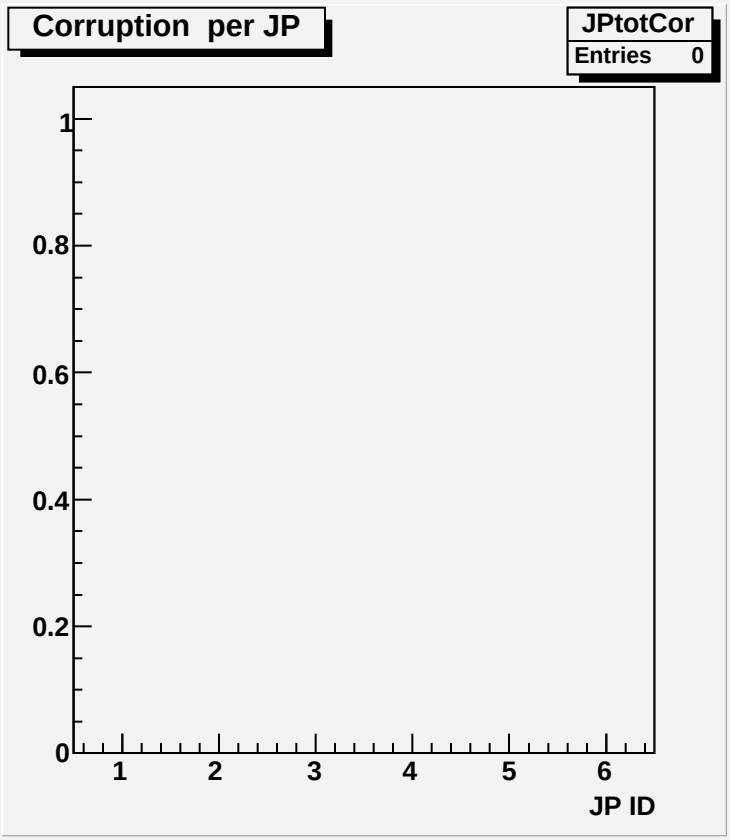
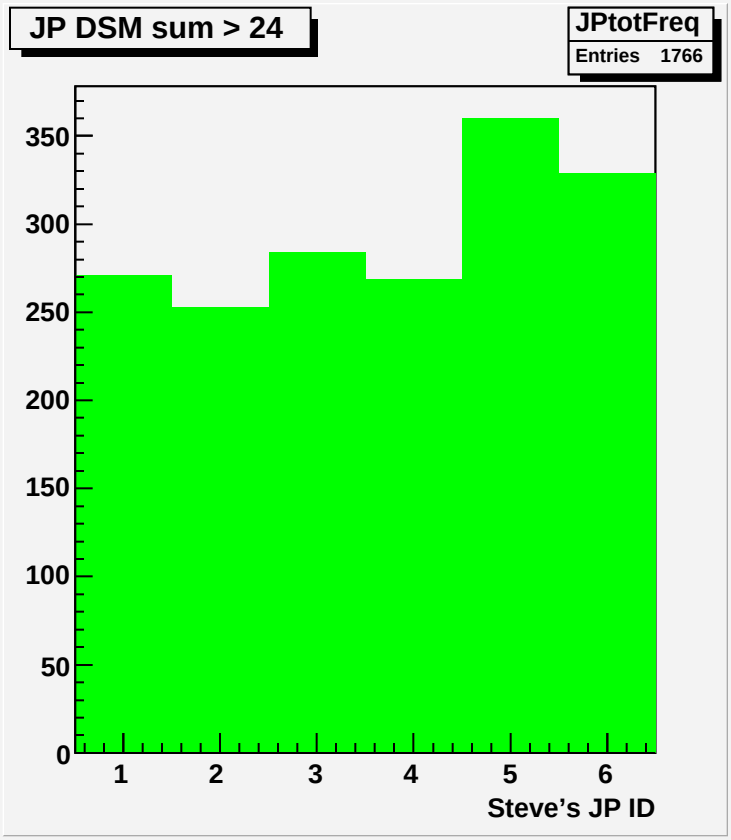
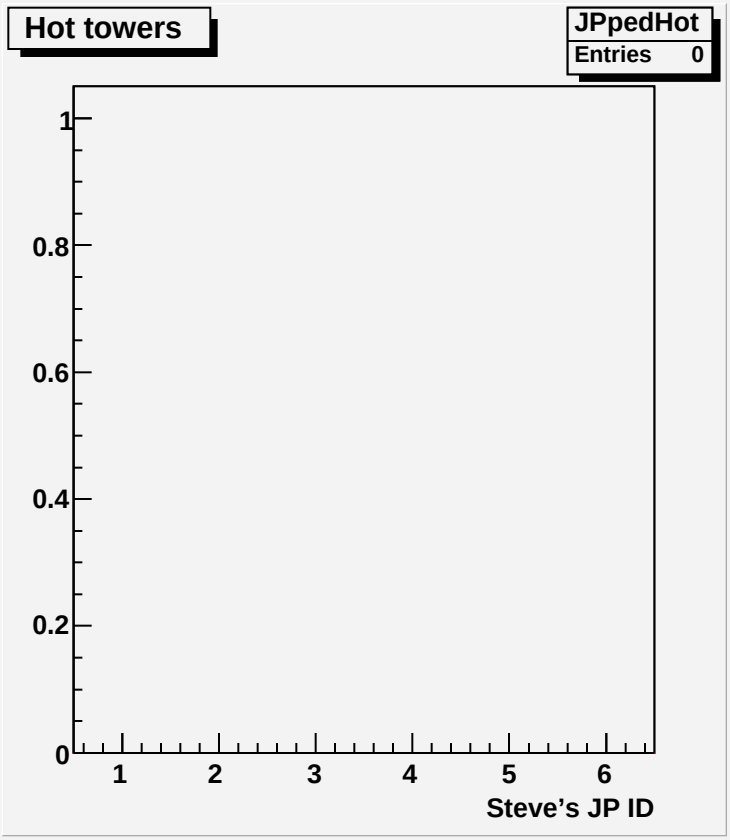
5 10 15 20 25









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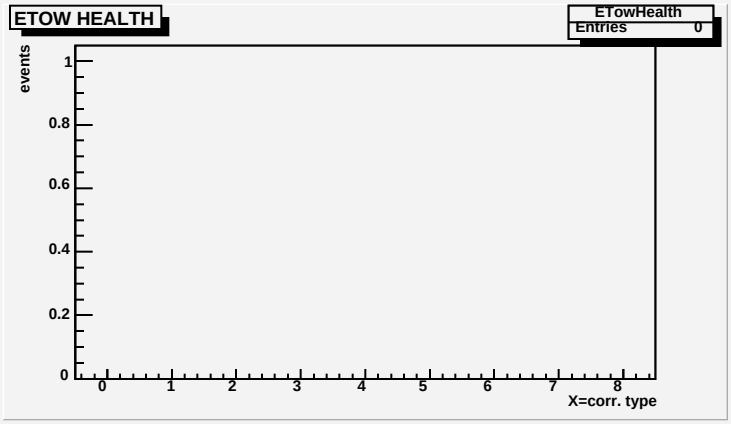
ETOW HEALTH
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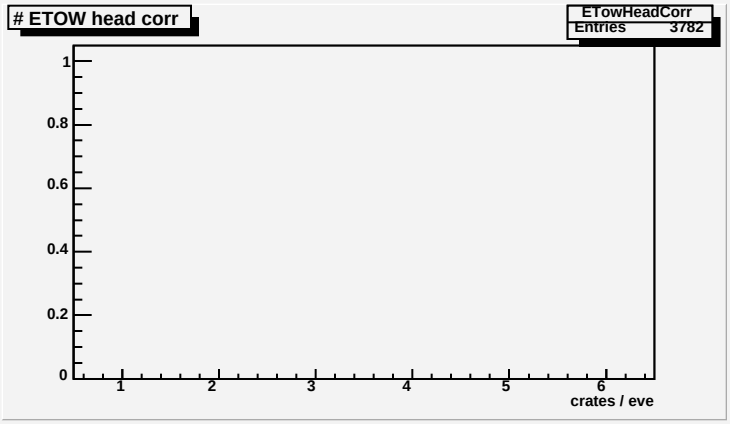
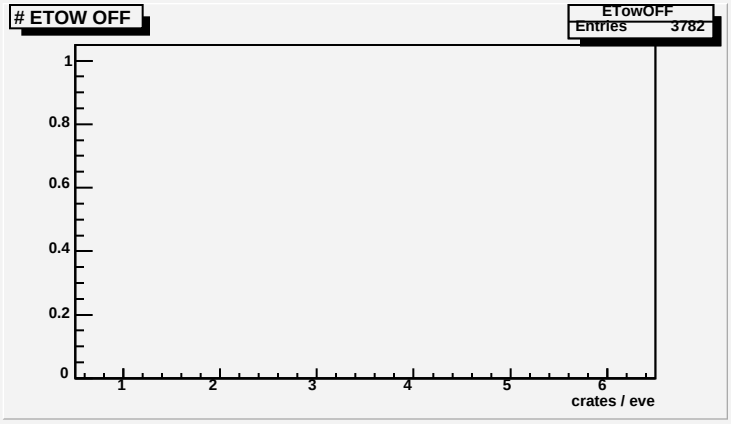
events
X=corr. type


ETOW head corr
ETowHeadCorr
Entries 3782
crates / eve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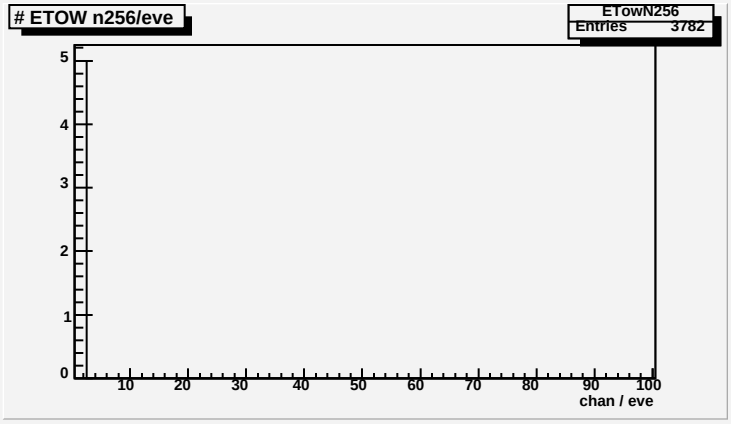
crates / eve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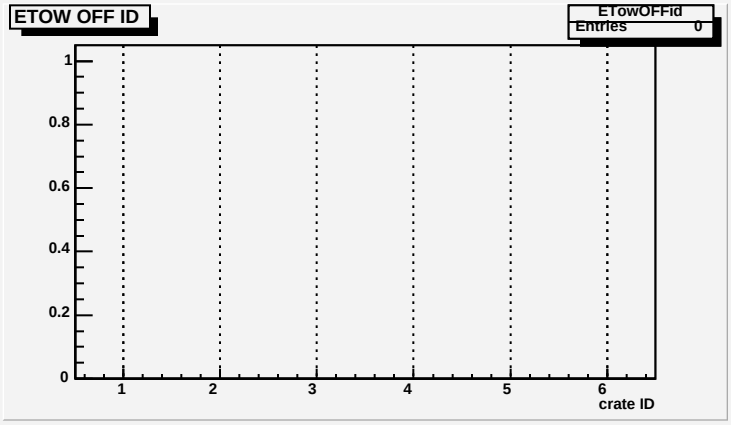
chan / eve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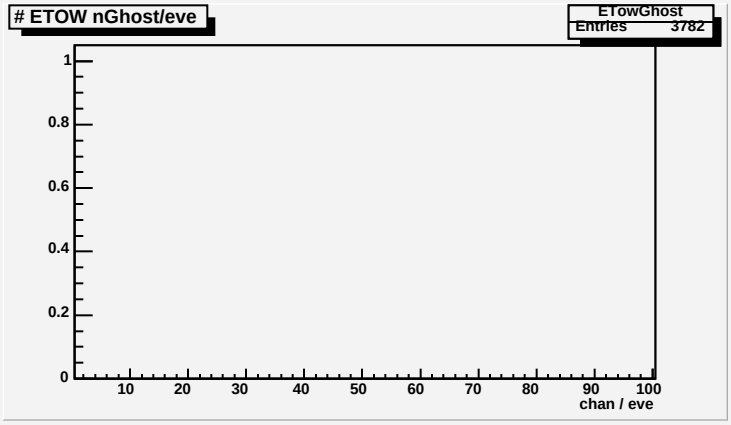
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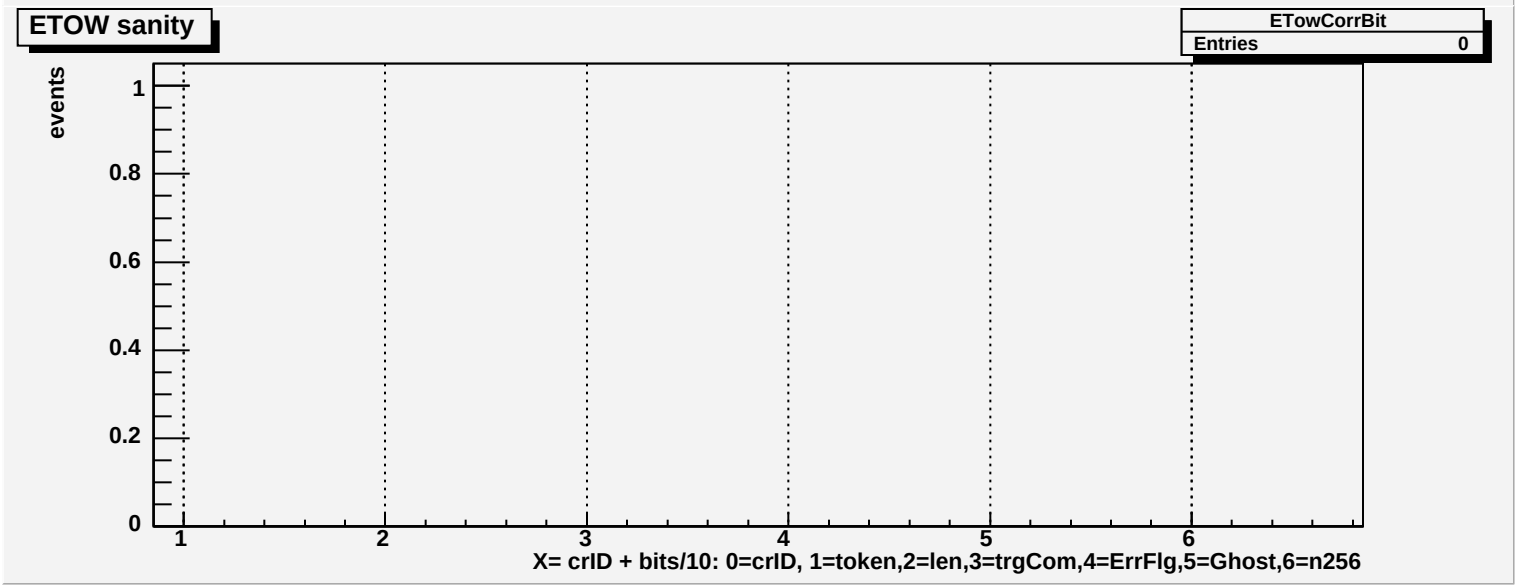
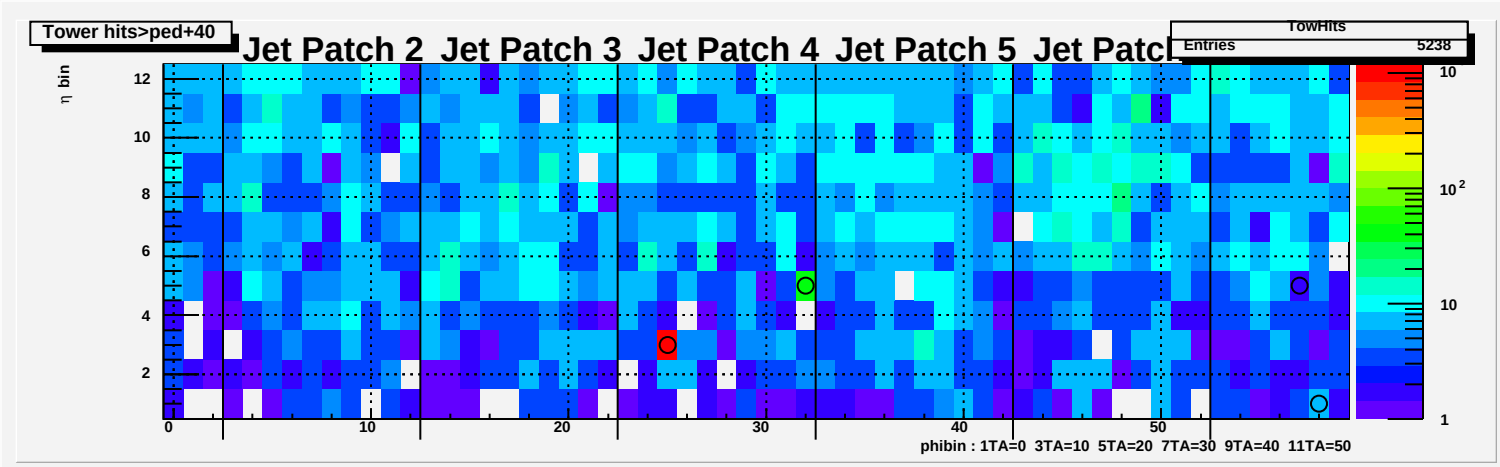
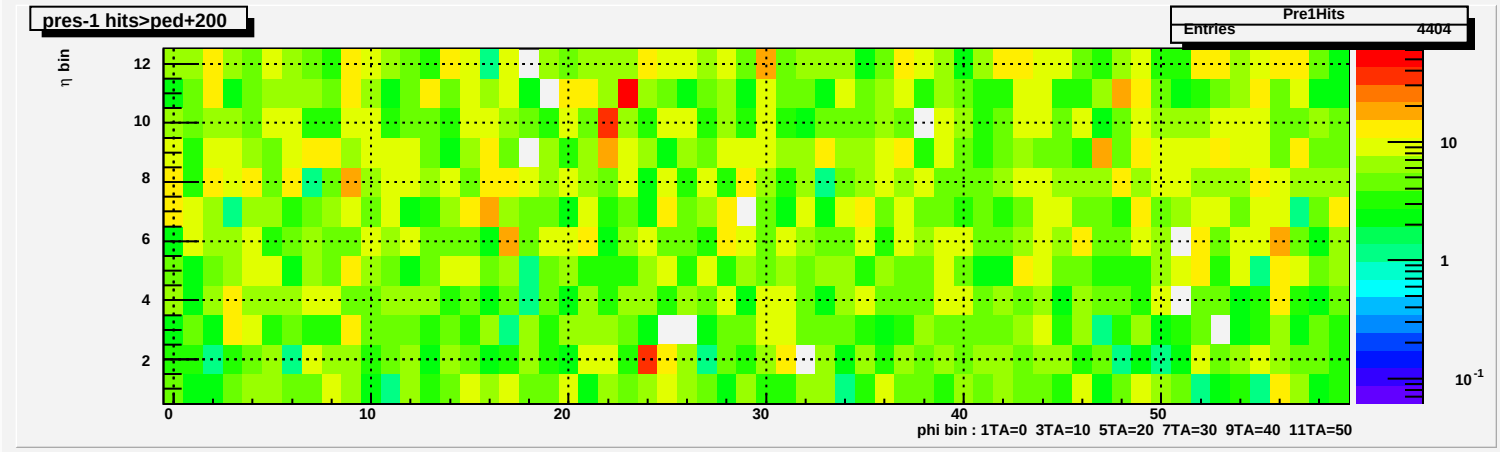
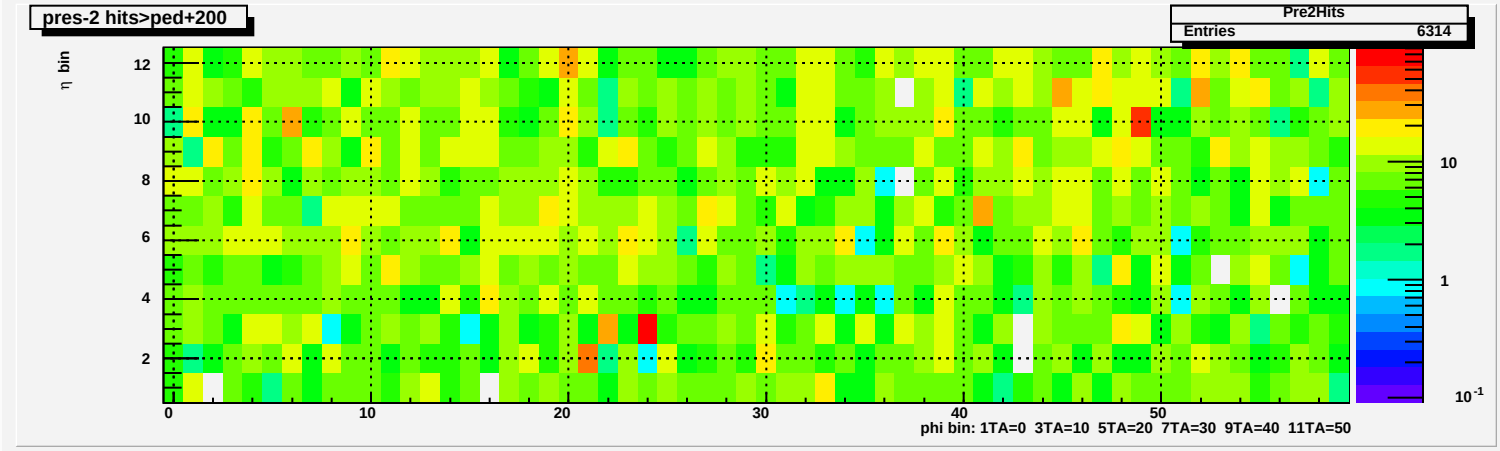
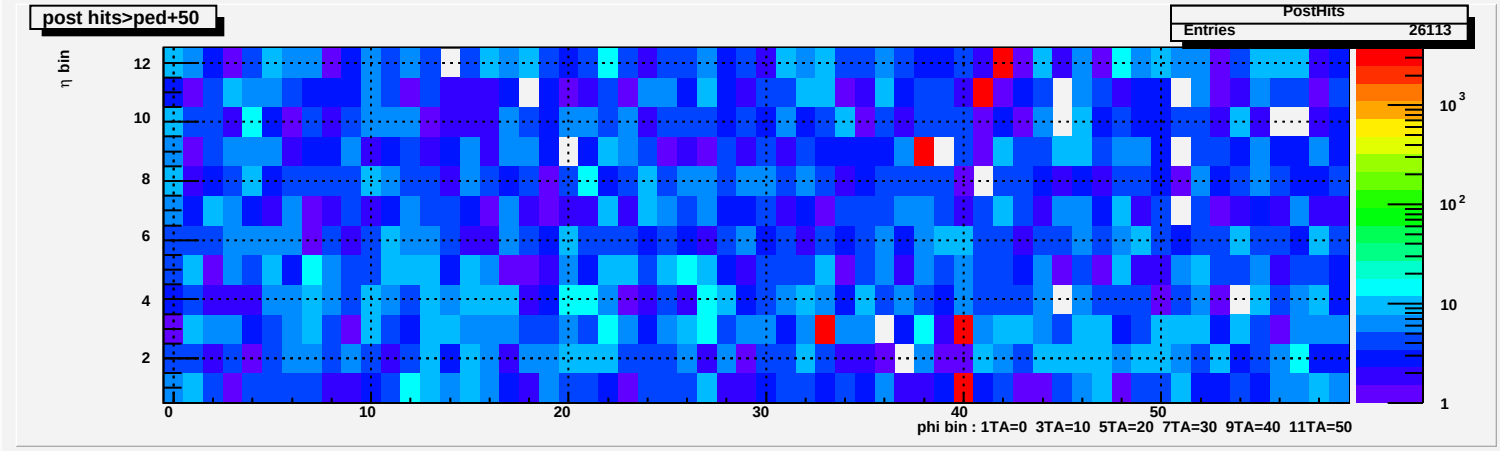
ETowGhost
Entries 3782
chan / eve

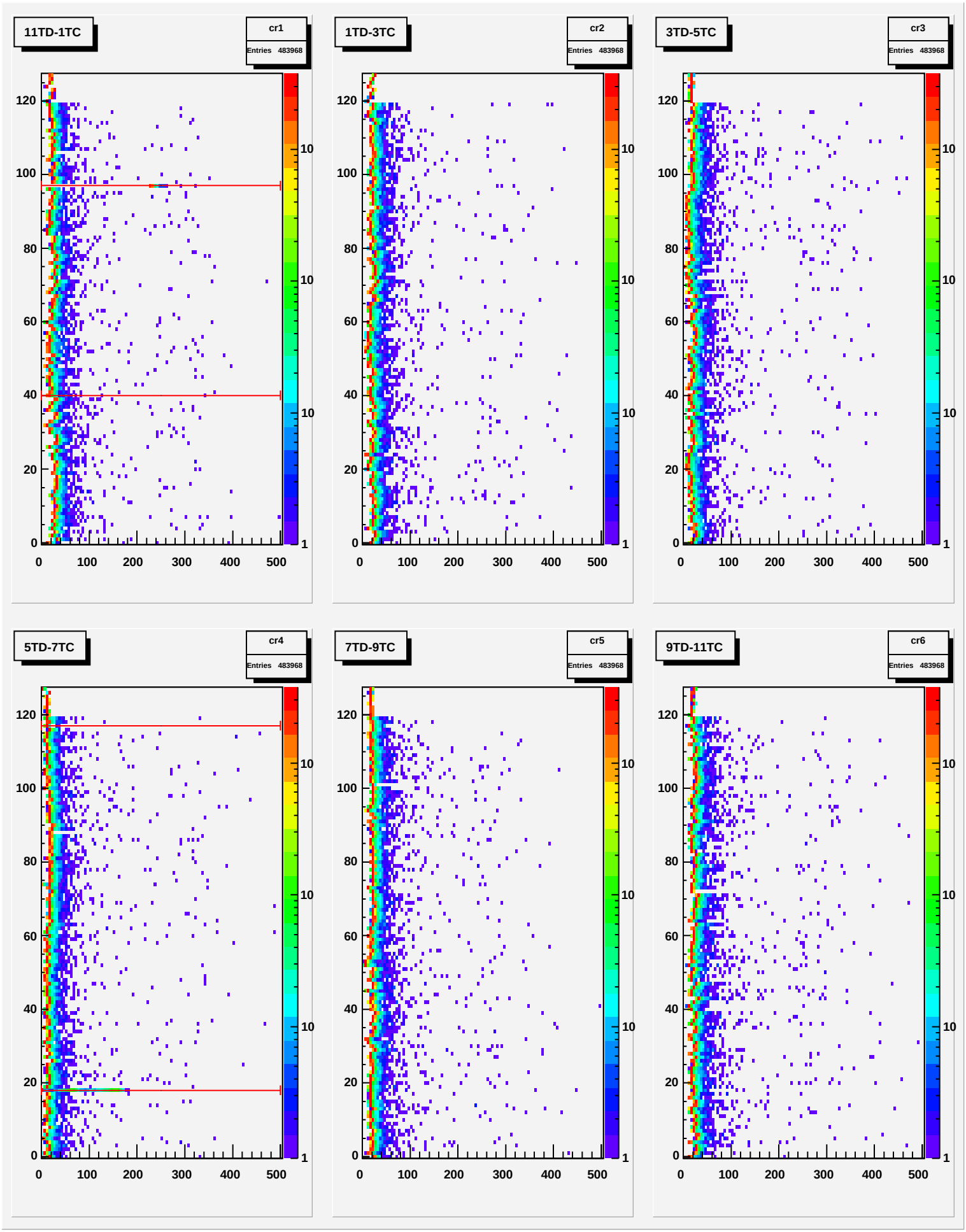

ETOW sanity
ETowCorrBit
Entries 0
events
X= crID + bits/10: 0=crID, 1=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

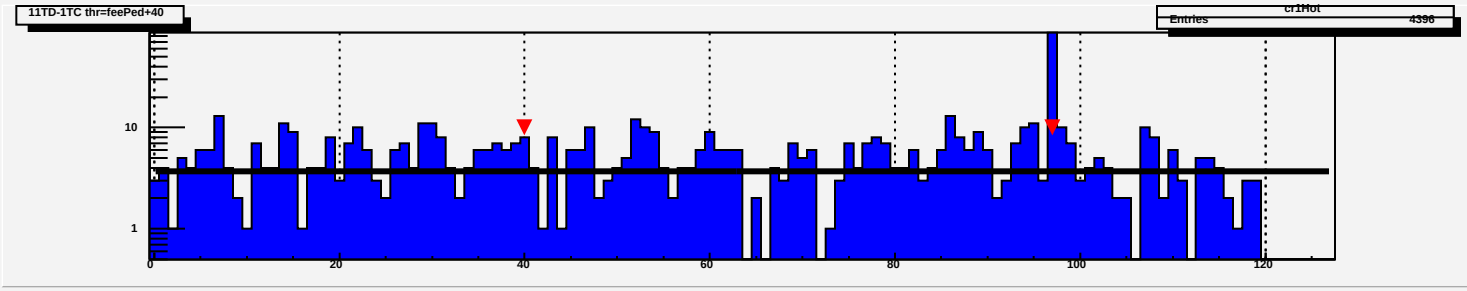

Tower hits>ped+40
Jet Patch 2 Jet Patch 3 Jet Patch 4 Jet Patch 5 Jet Patch
TowHits
Entries 5238
η bin
phibin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

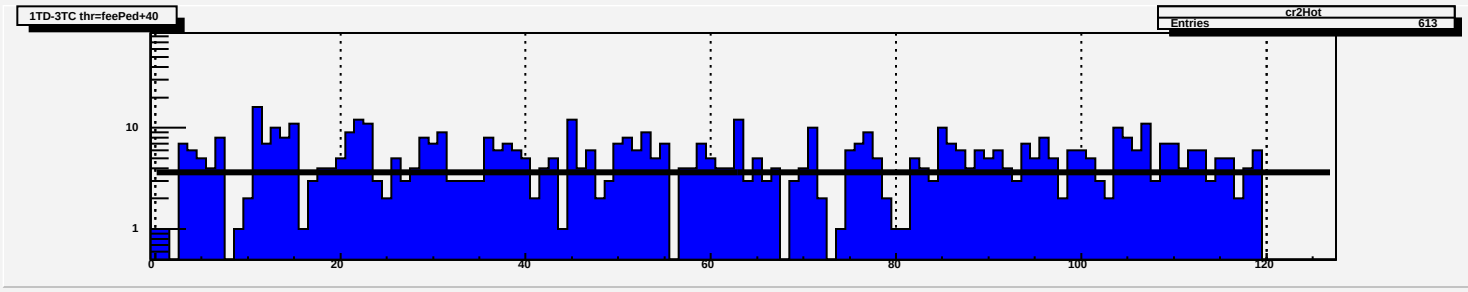

pres-1 hits>ped+200
Pre1Hits
Entries 4404
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

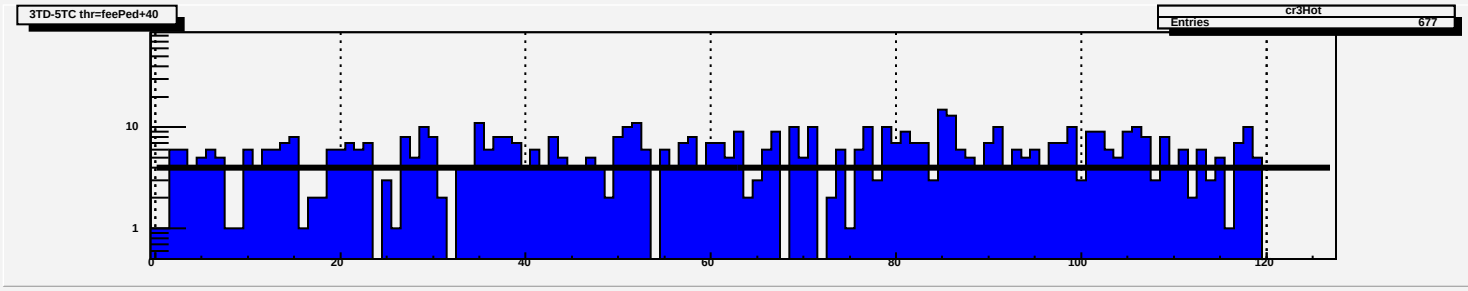

pres-2 hits>ped+200
Pre2Hits
Entries 6314
η bin
phi bin: 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

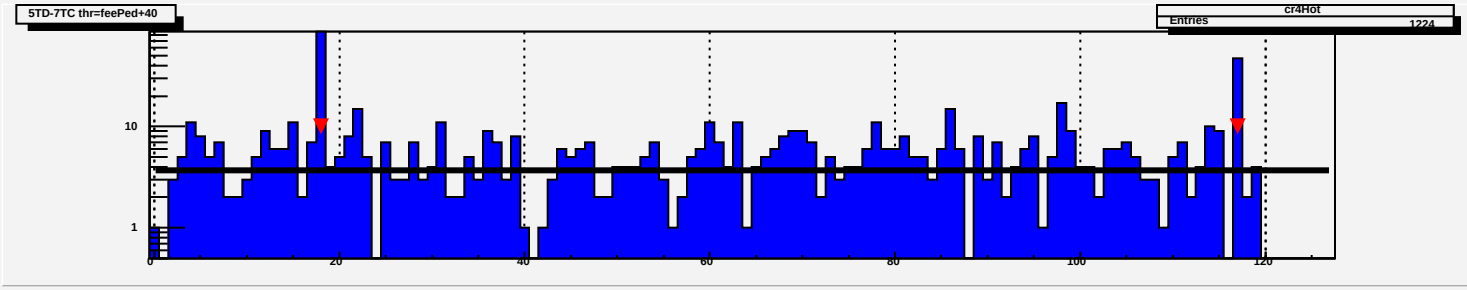

post hits>ped+50
PostHits
Entries 26113
η bin
phi bin : 1TA=0 3TA=10 5TA=20 7TA=30 9TA=40 11TA=50

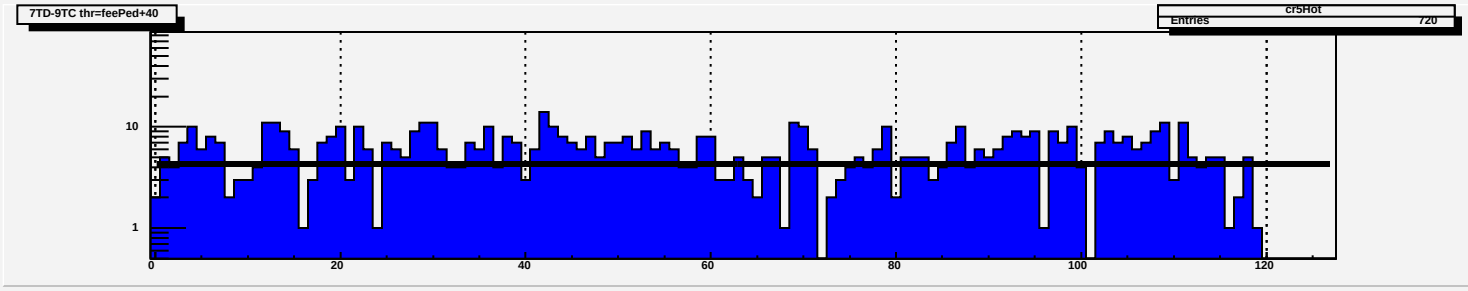

11TD-1TC
cr1
Entries 483968
1TD-3TC
cr2
Entries 483968
3TD-5TC
cr3
Entries 483968
5TD-7TC
cr4
Entries 483968
7TD-9TC
cr5
Entries 483968
9TD-11TC
cr6
Entries 483968
0
20
40
60
80
100
120
0
100
200
300
400
500
1
10
10
10
10

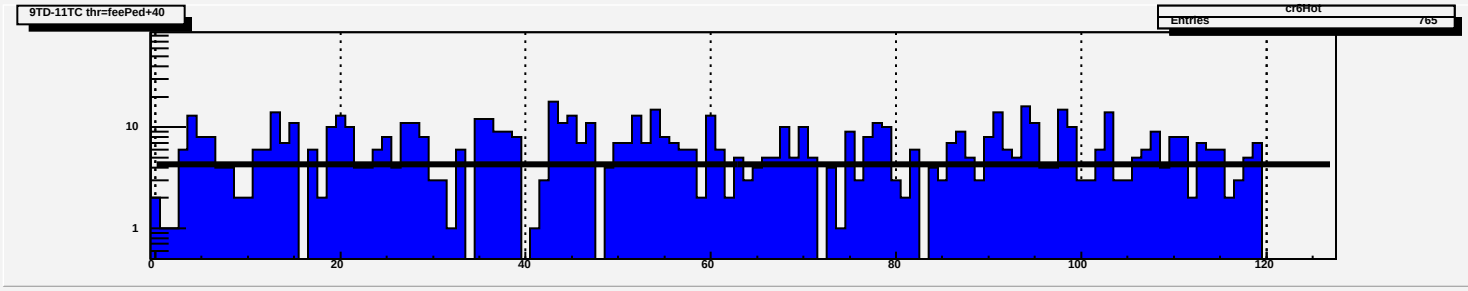

11TD-1TC thr=feePed+40
cr1Hot
Entries 4396
10
1
0
20
40
60
80
100
120

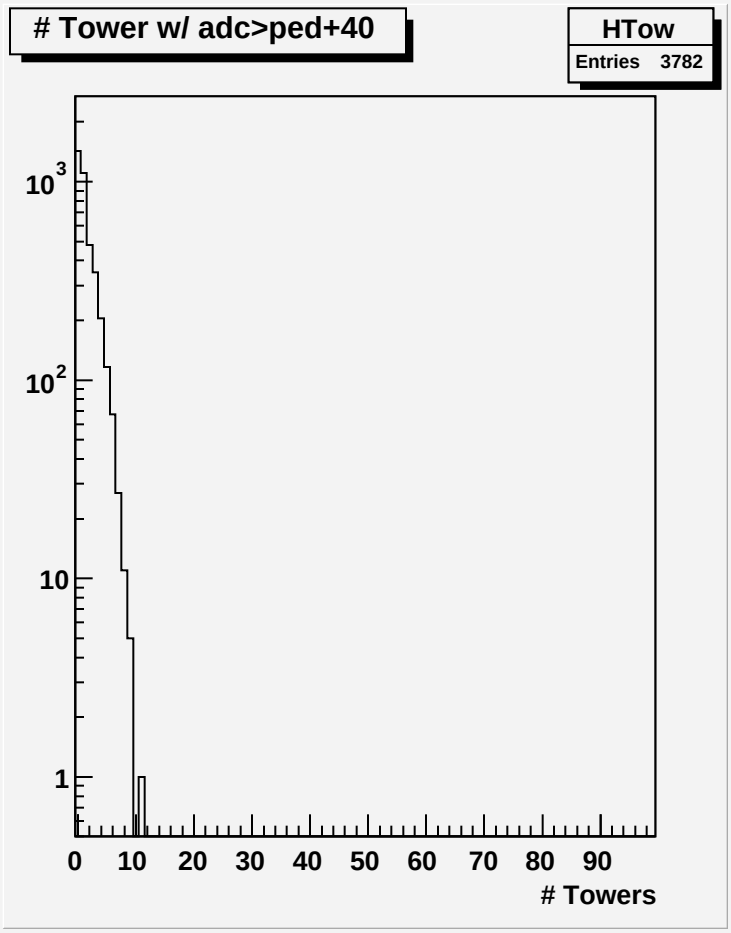

1TD-3TC thr=feePed+40
cr2Hot
Entries 613
10
1
0
20
40
60
80
100
120

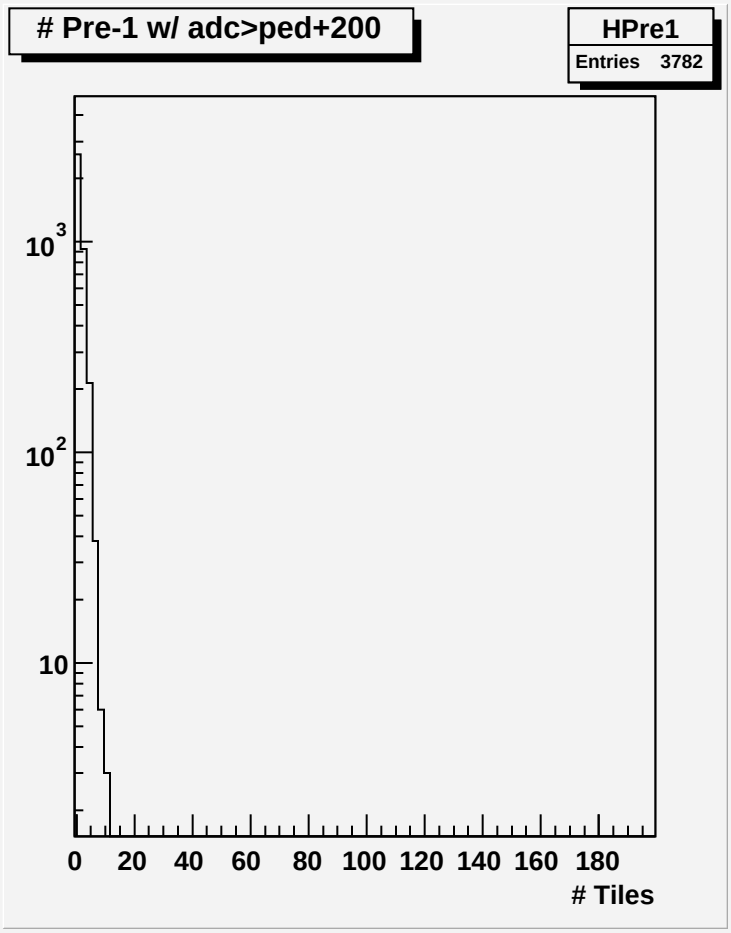

3TD-5TC thr=feePed+40
cr3Hot
Entries 677
10
1
0
20
40
60
80
100
120

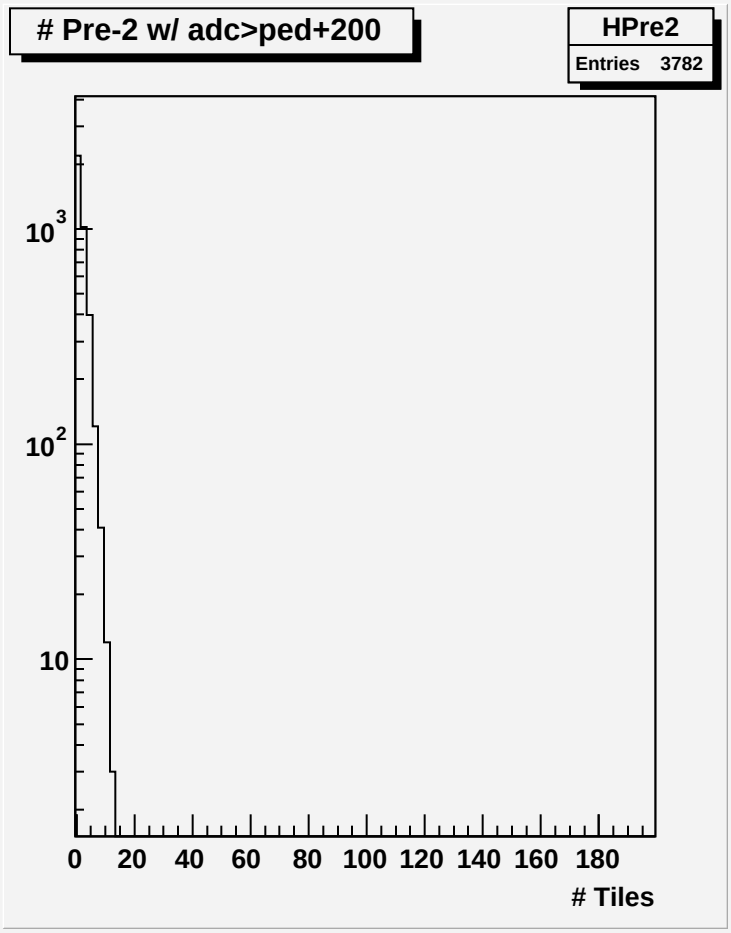

5TD-7TC thr=feePed+40
cr4Hot
Entries 1224
10
1
0
20
40
60
80
100
120

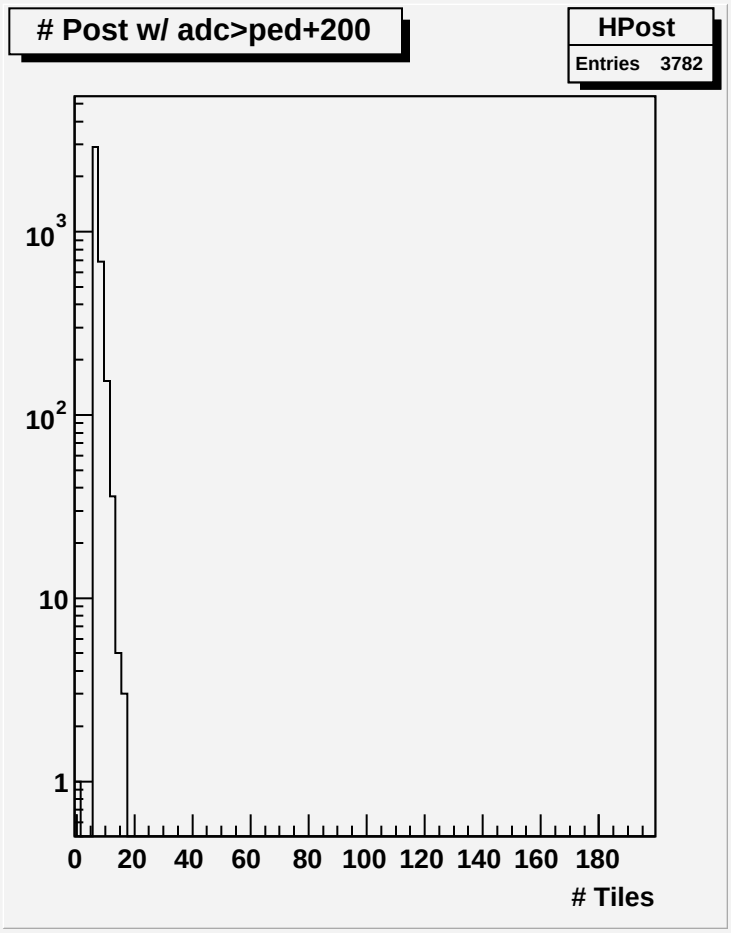

7TD-9TC thr=feePed+40
cr5Hot
Entries 720
10
1
0
20
40
60
80
100
120


9TD-11TC thr=feePed+40
cr6Hot
Entries 765
10
1
0
20
40
60
80
100
120

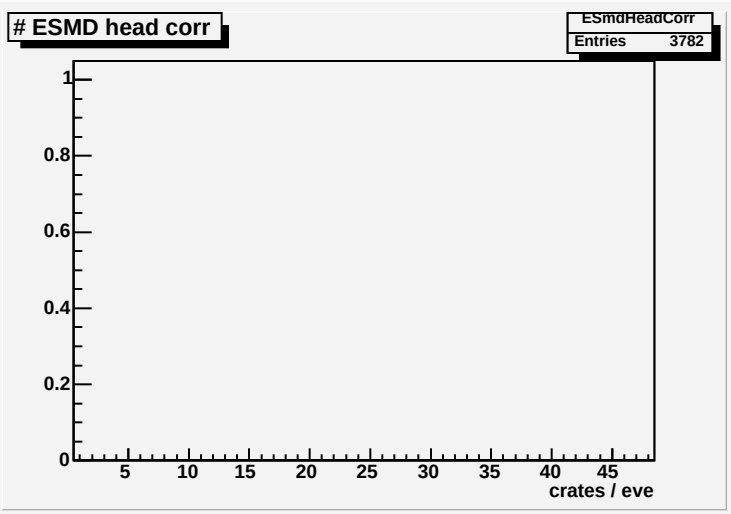

Tower w/ adc>ped+40
HTow
Entries 3782
10^3
10^2
10
1
0 10 20 30 40 50 60 70 80 90
Towers

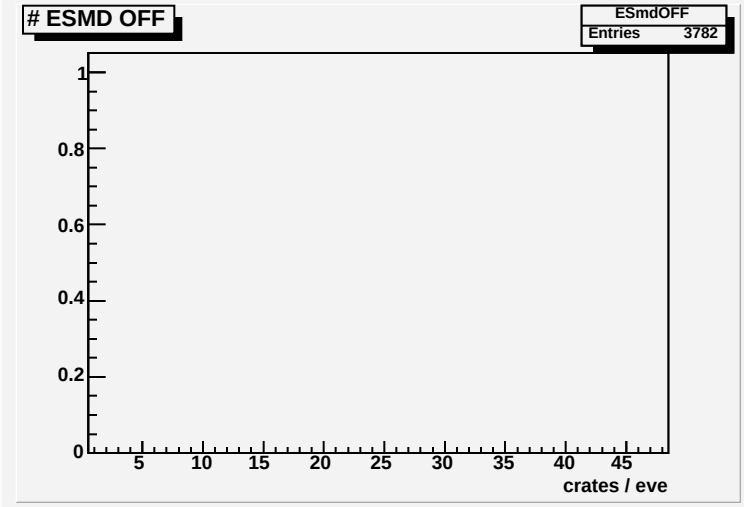

Pre-1 w/ adc>ped+200
HPre1
Entries 3782
10^3
10^2
10
0 20 40 60 80 100 120 140 160 180
Tiles

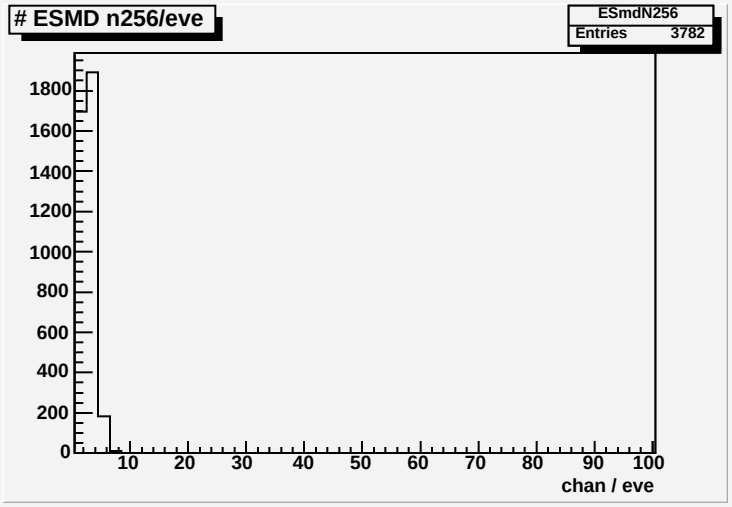

Pre-2 w/ adc>ped+200
HPre2
Entries 3782
10^3
10^2
10
0 20 40 60 80 100 120 140 160 180
Tiles

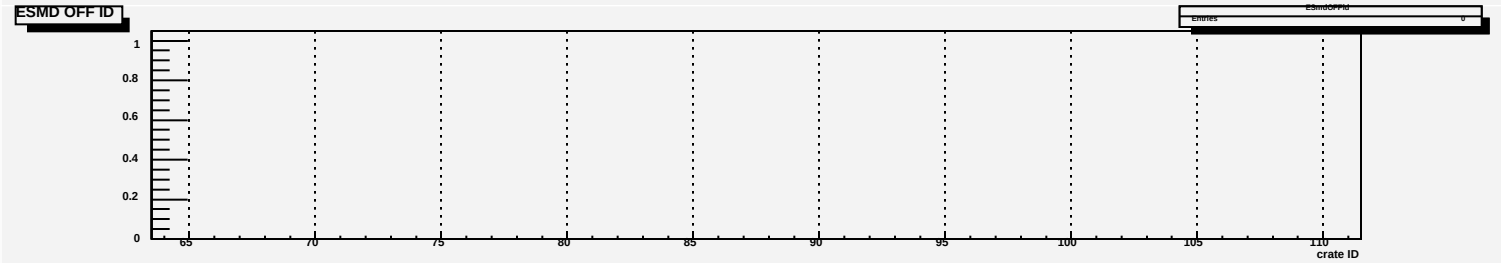

Post w/ adc>ped+200
HPost
Entries 3782
10^3
10^2
10
1
0 20 40 60 80 100 120 140 160 180
Tiles

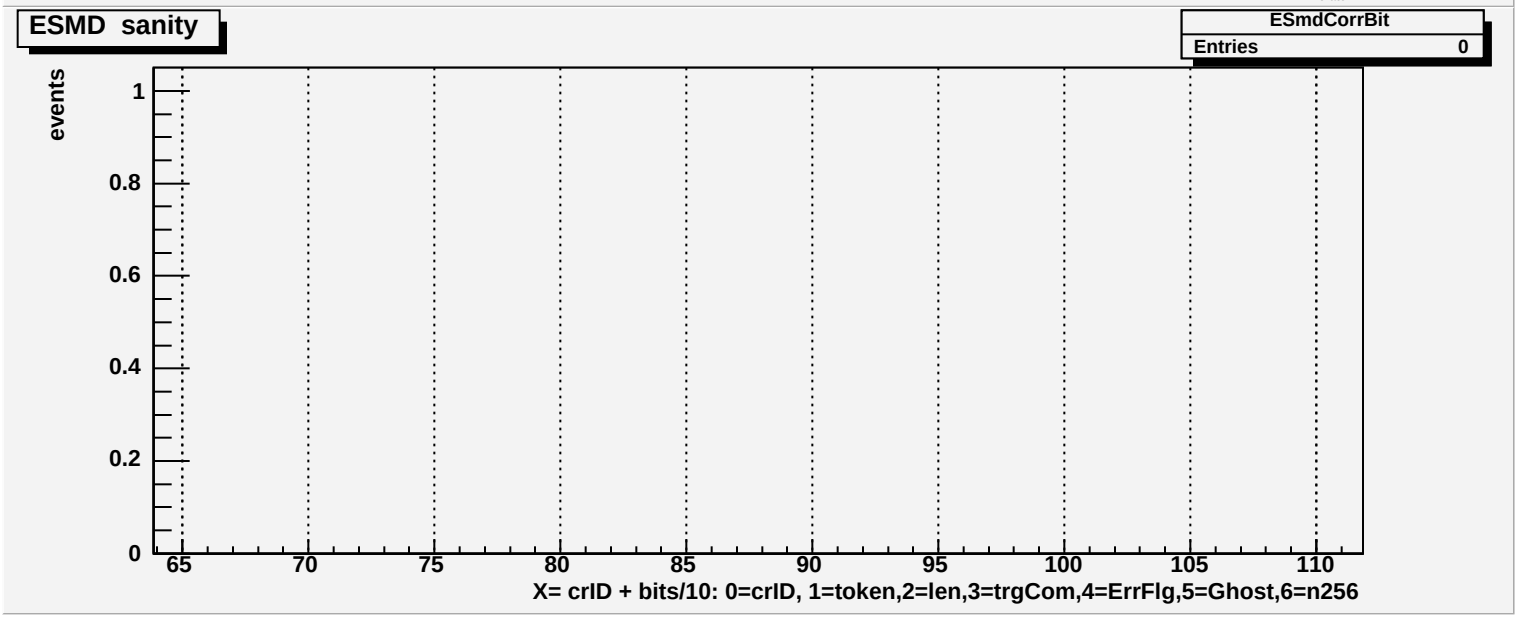
ESMD HEALTH
ESmdHealth
Entries 0
events
X=corr. type

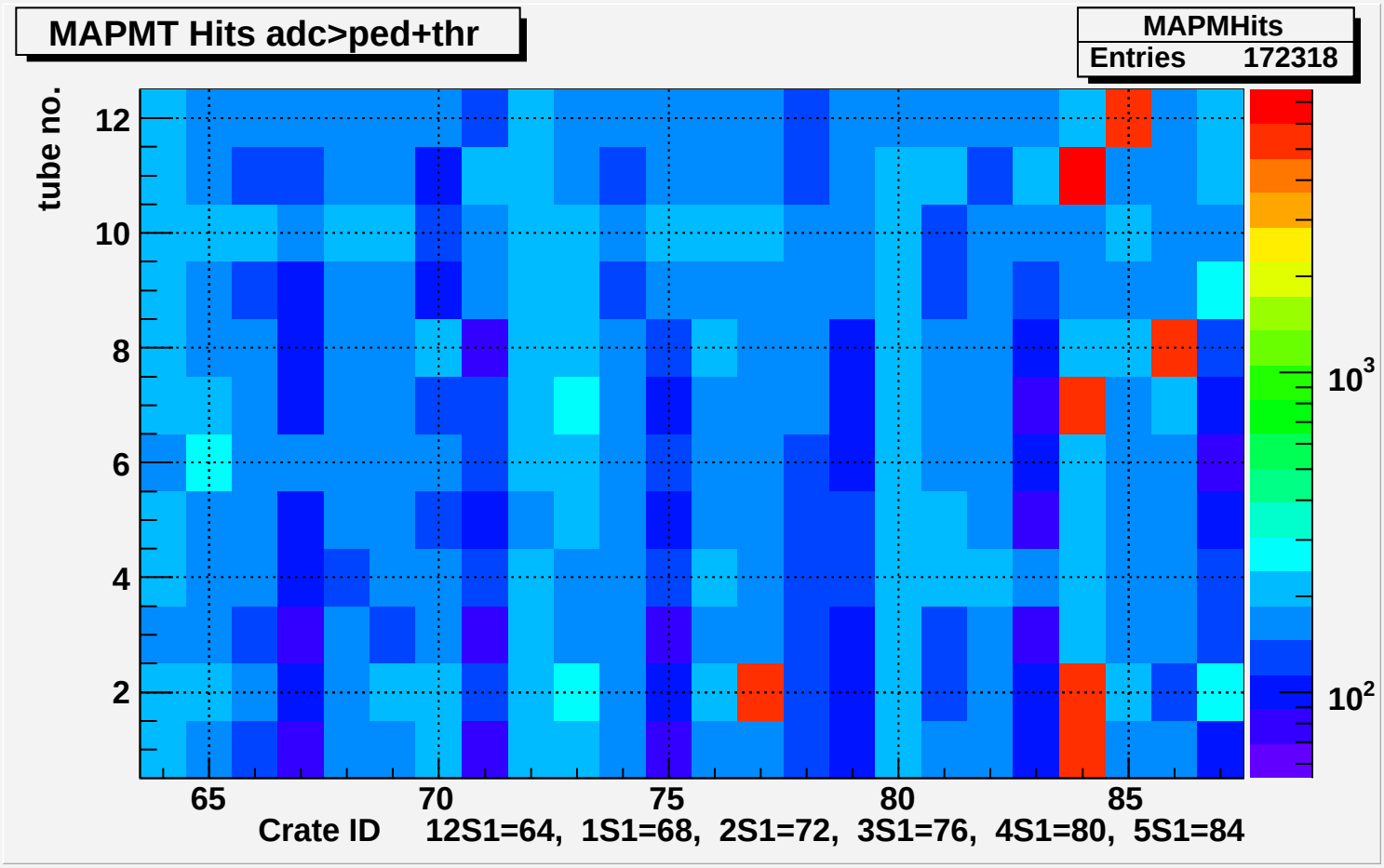

ESMD head corr
ESmdHeadCorr
Entries 3782
crates / eve

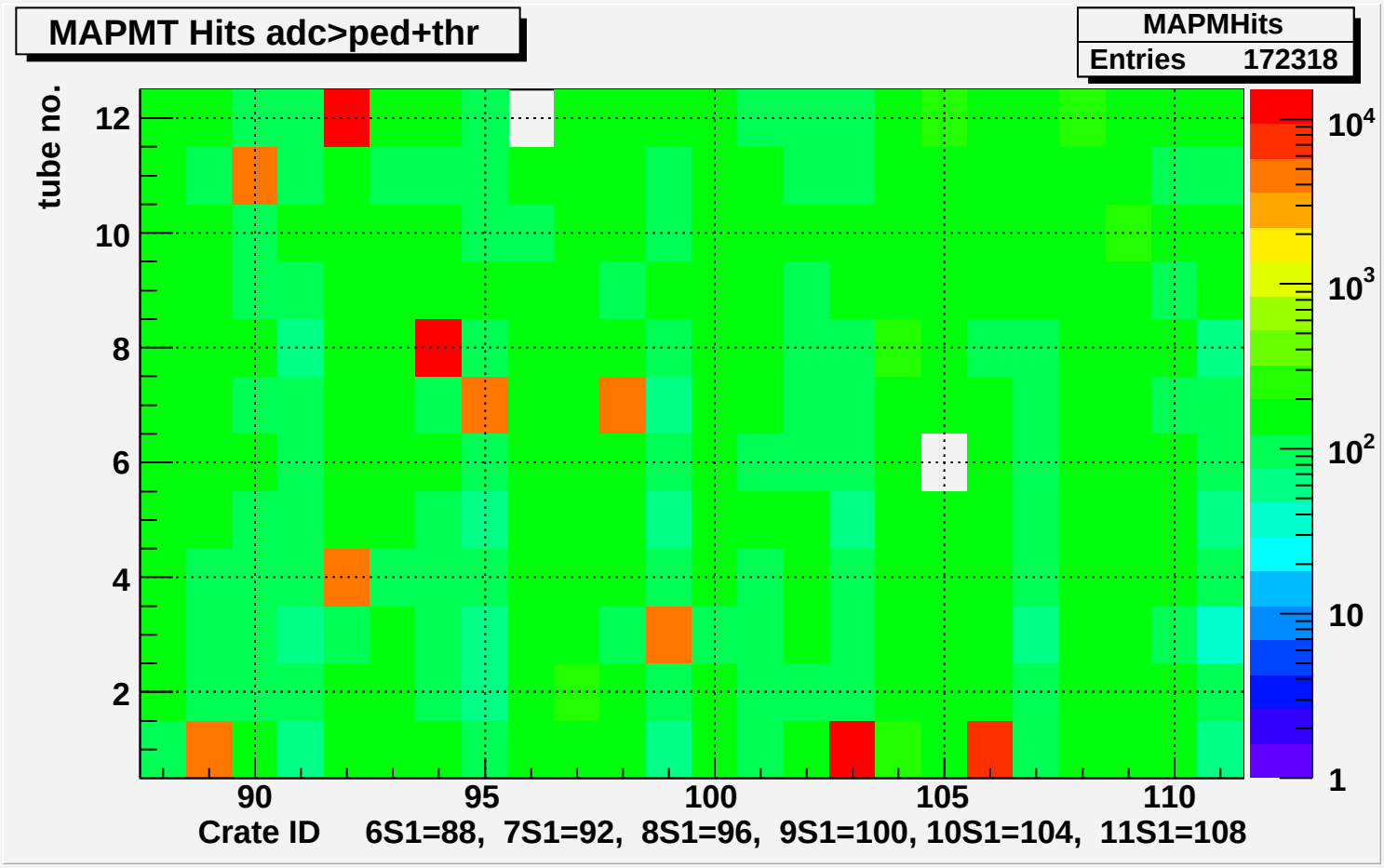

ESMD OFF
ESmdOFF
Entries 3782
crates / eve

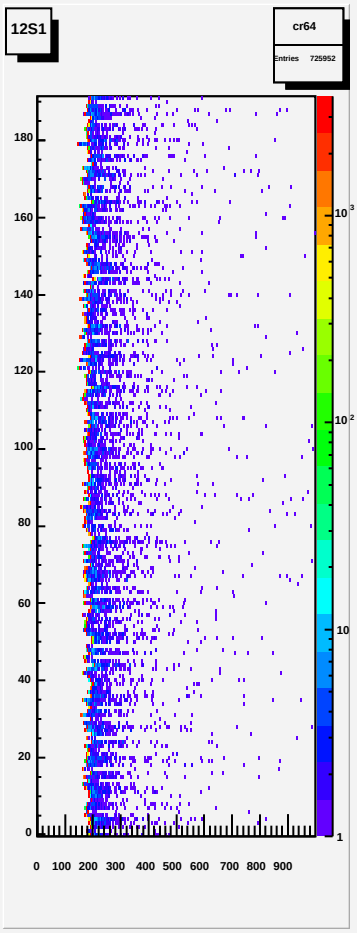

ESMD n256/eve
ESmdN256
Entries 3782
chan / eve

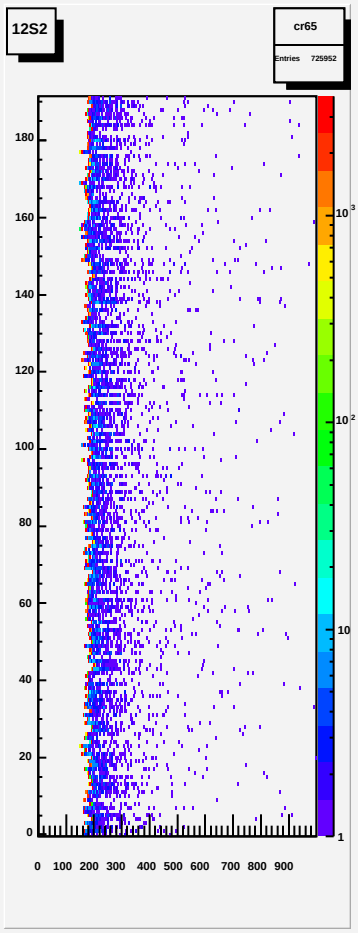

ESMD OFF ID
crate ID

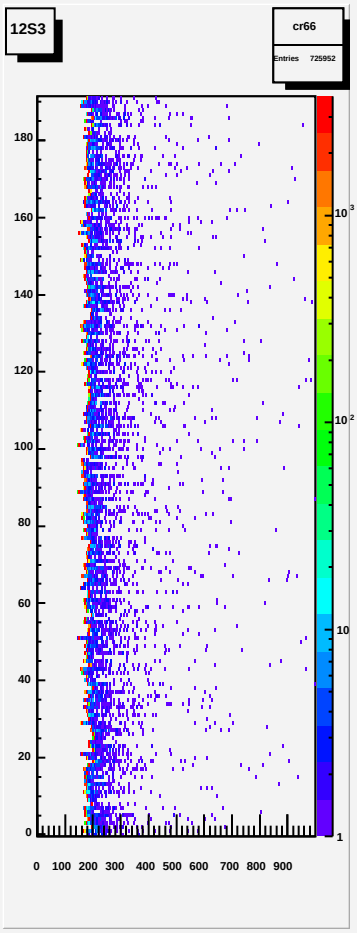

ESMD sanity
ESmdCorrBit
Entries 0
events
X= crID + bits/10: 0=crID, 1=token,2=len,3=trgCom,4=ErrFlg,5=Ghost,6=n256

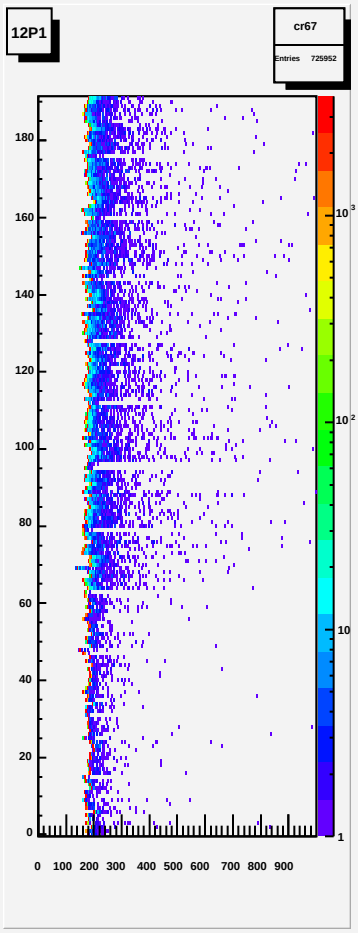

MAPMT Hits adc>ped+thr
MAPMHits
Entries 172318
tube no.
12
10
8
6
4
2
65
70
75
80
85
Crate ID 12S1=64, 1S1=68, 2S1=72, 3S1=76, 4S1=80, 5S1=84
10^3
10^2

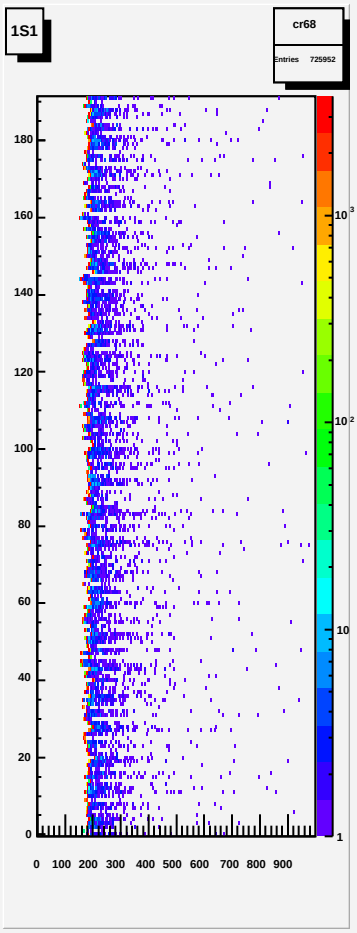

MAPMT Hits adc>ped+thr
MAPMHits
Entries 172318
tube no.
12
10
8
6
4
2
90
95
100
105
110
Crate ID 6S1=88, 7S1=92, 8S1=96, 9S1=100, 10S1=104, 11S1=108
10^4
10^3
10^2
10
1

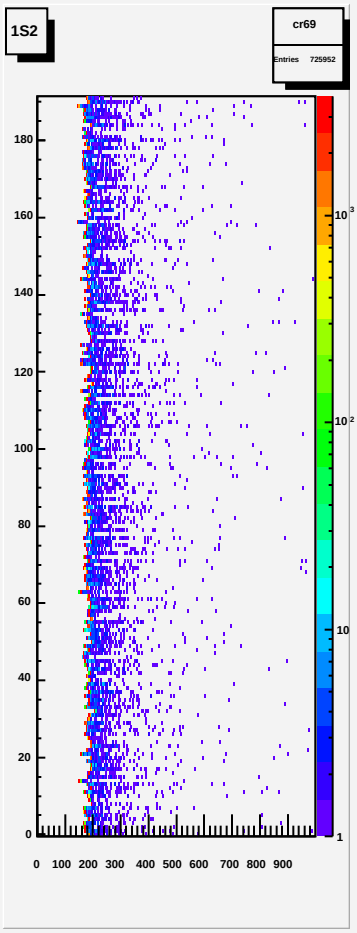

12S1
cr64
Entries 725952

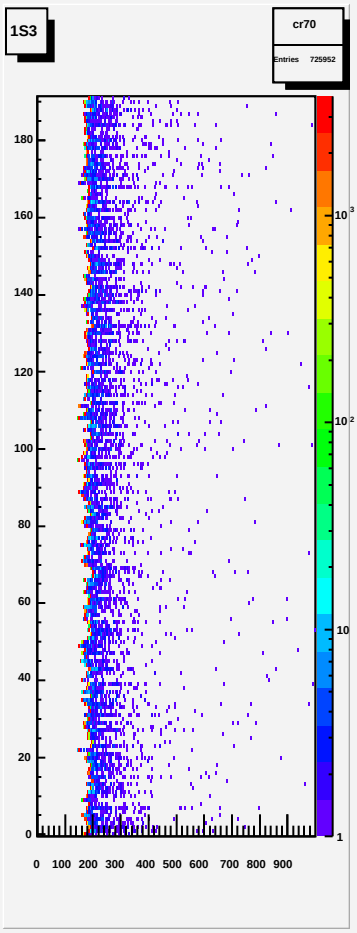

12S2
cr65
Entries 725952

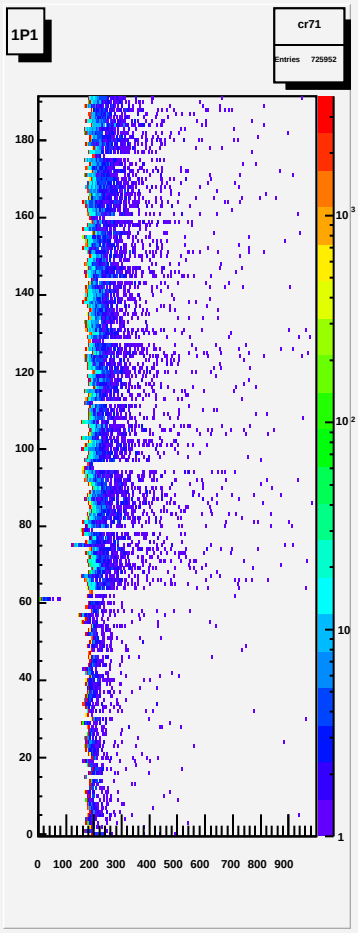

12S3
cr66
Entries 725952

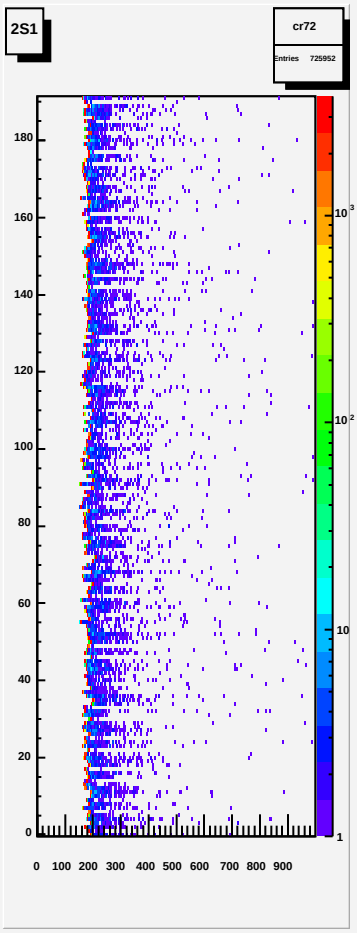

12P1
cr67
Entries 725952

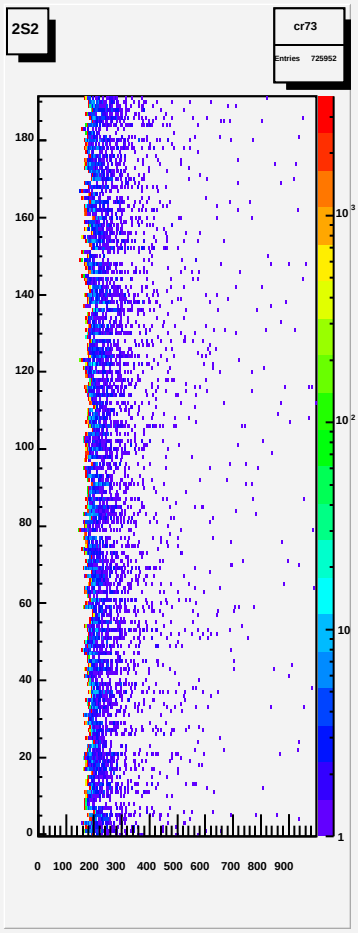

1S1
cr68
Entries 725952

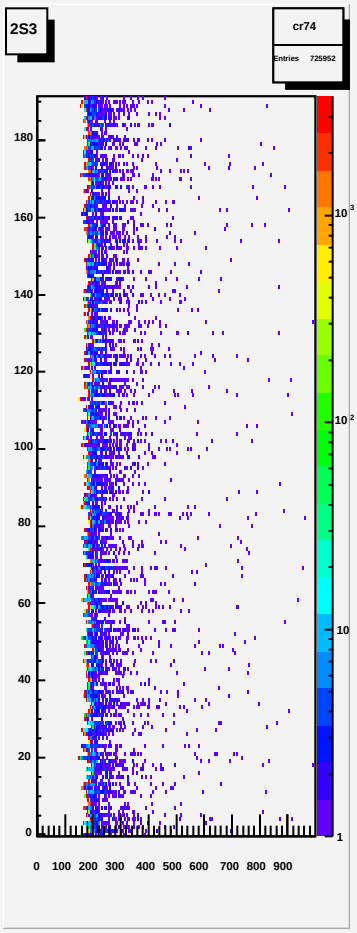

1S2
cr69
Entries 725952

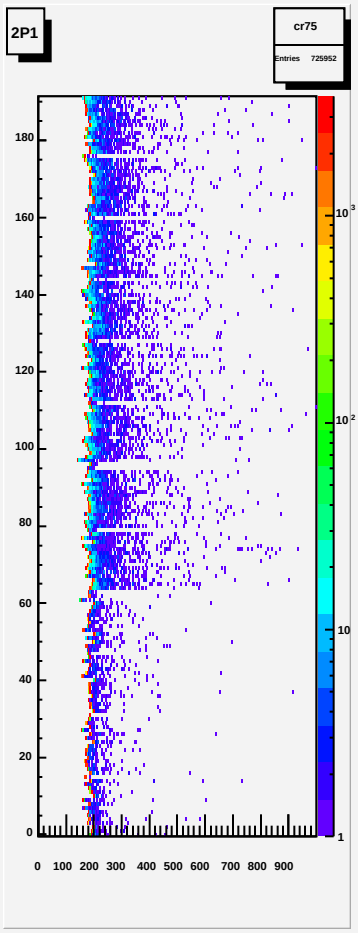

1S3
cr70
Entries 725952

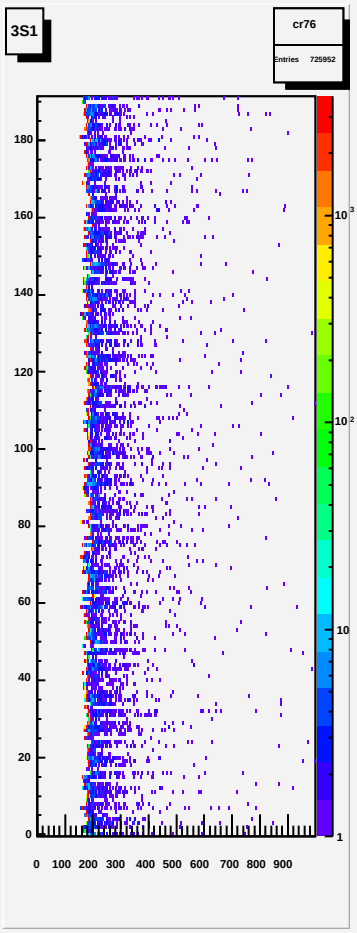

1P1
cr71
Entries 725952

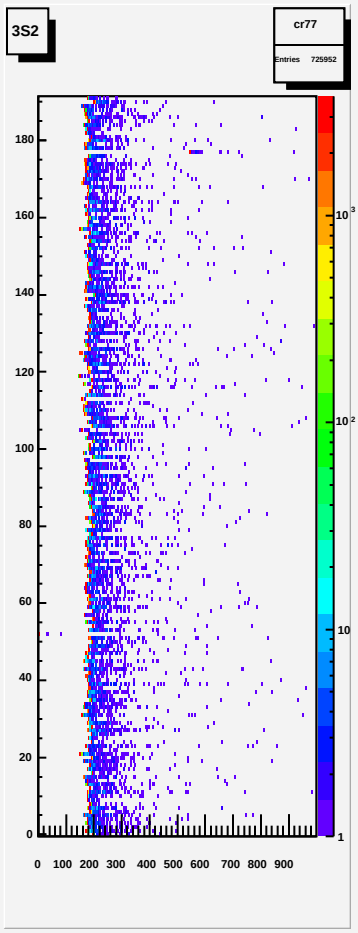

2S1
cr72
Entries 725952

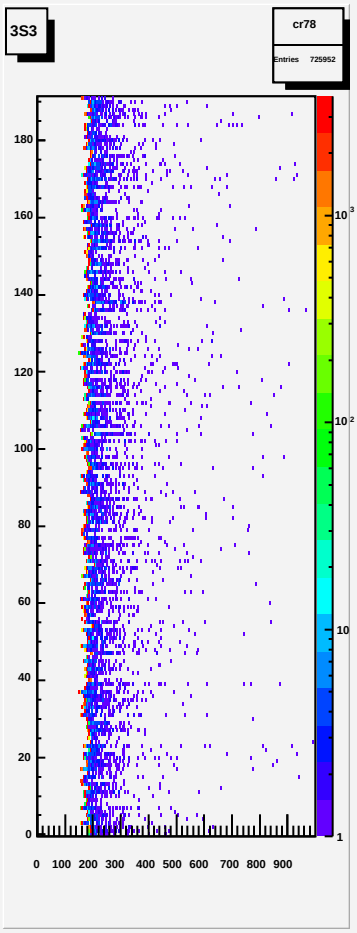

2S2
cr73
Entries 725952

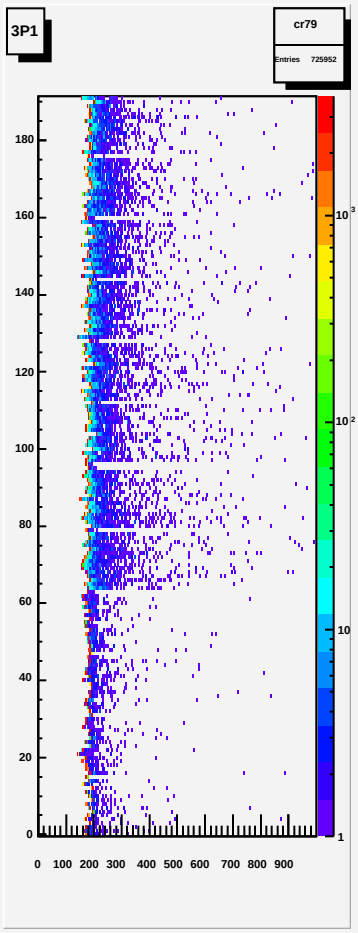

2S3
cr74
Entries 725952

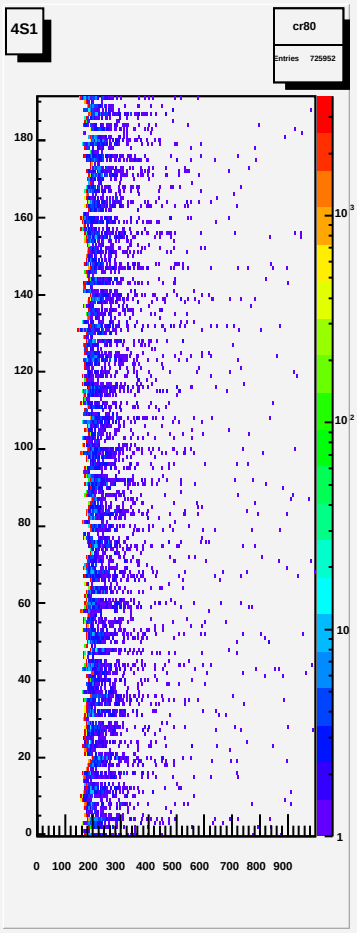

2P1
cr75
Entries 725952

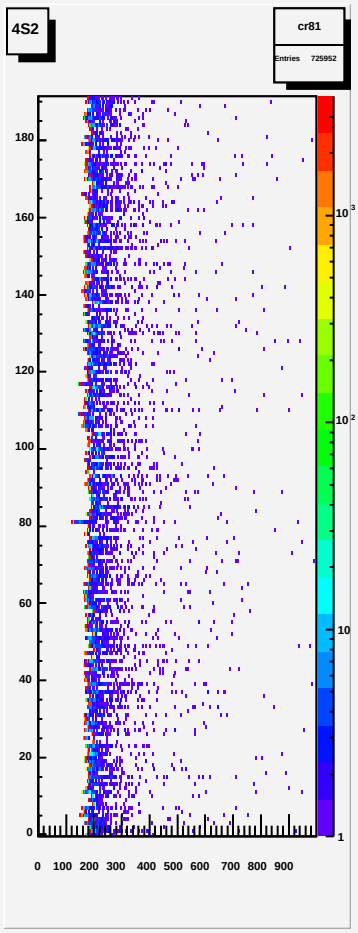

3S1
cr76
Entries 725952

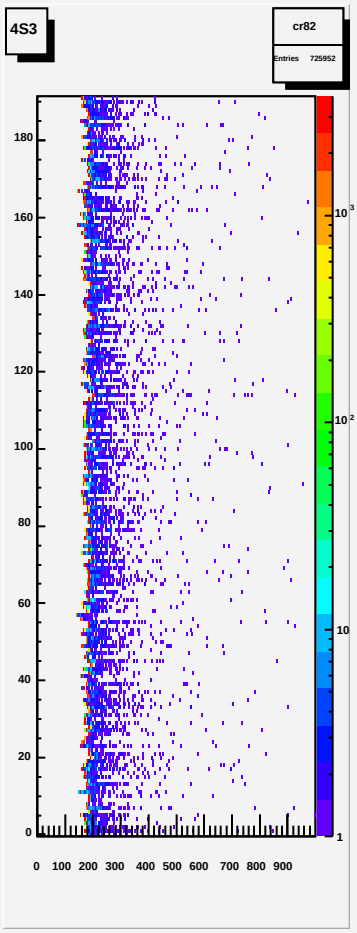

3S2
cr77
Entries 725952

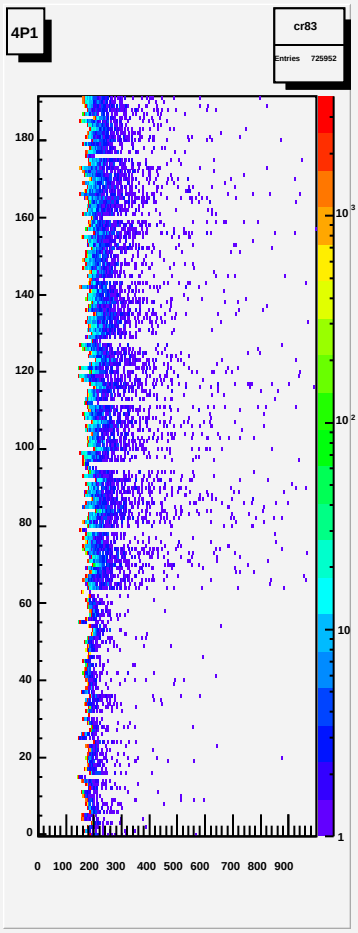

3S3
cr78
Entries 725952

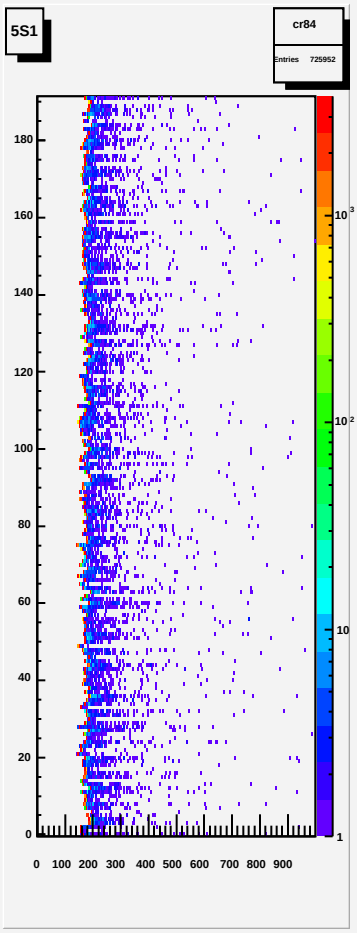

3P1
cr79
Entries 725952

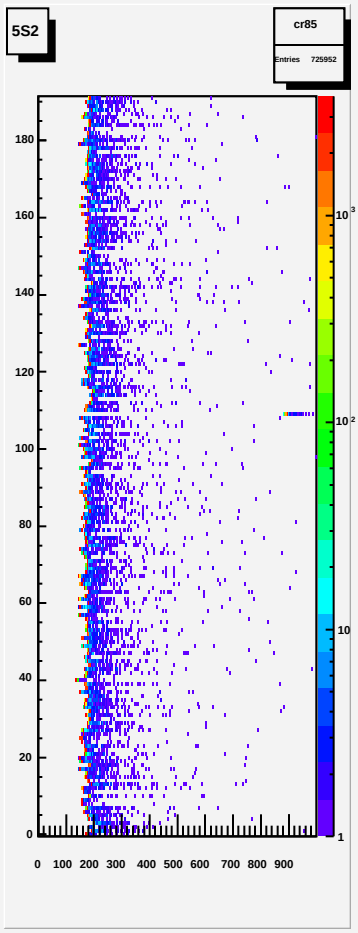

4S1
cr80
Entries 725952

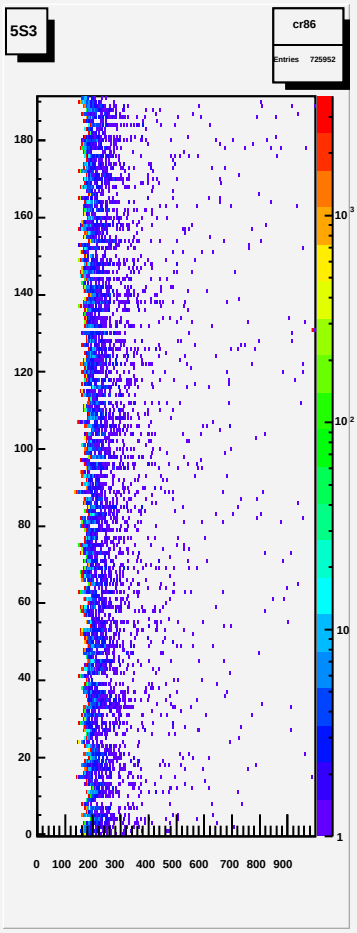

4S2
cr81
Entries 725952

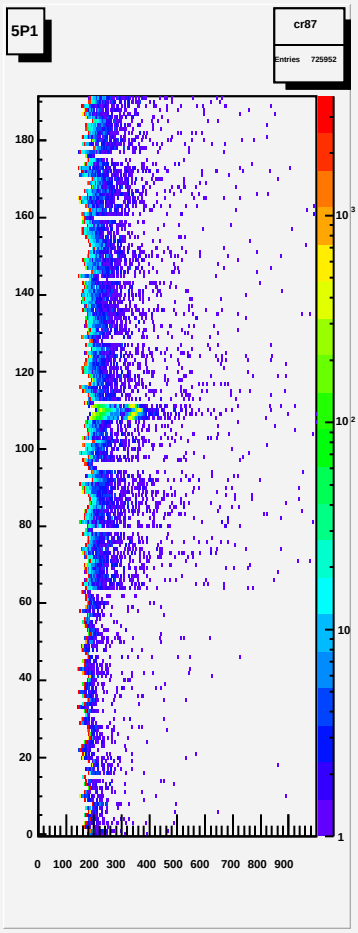

4S3
cr82
Entries 725952

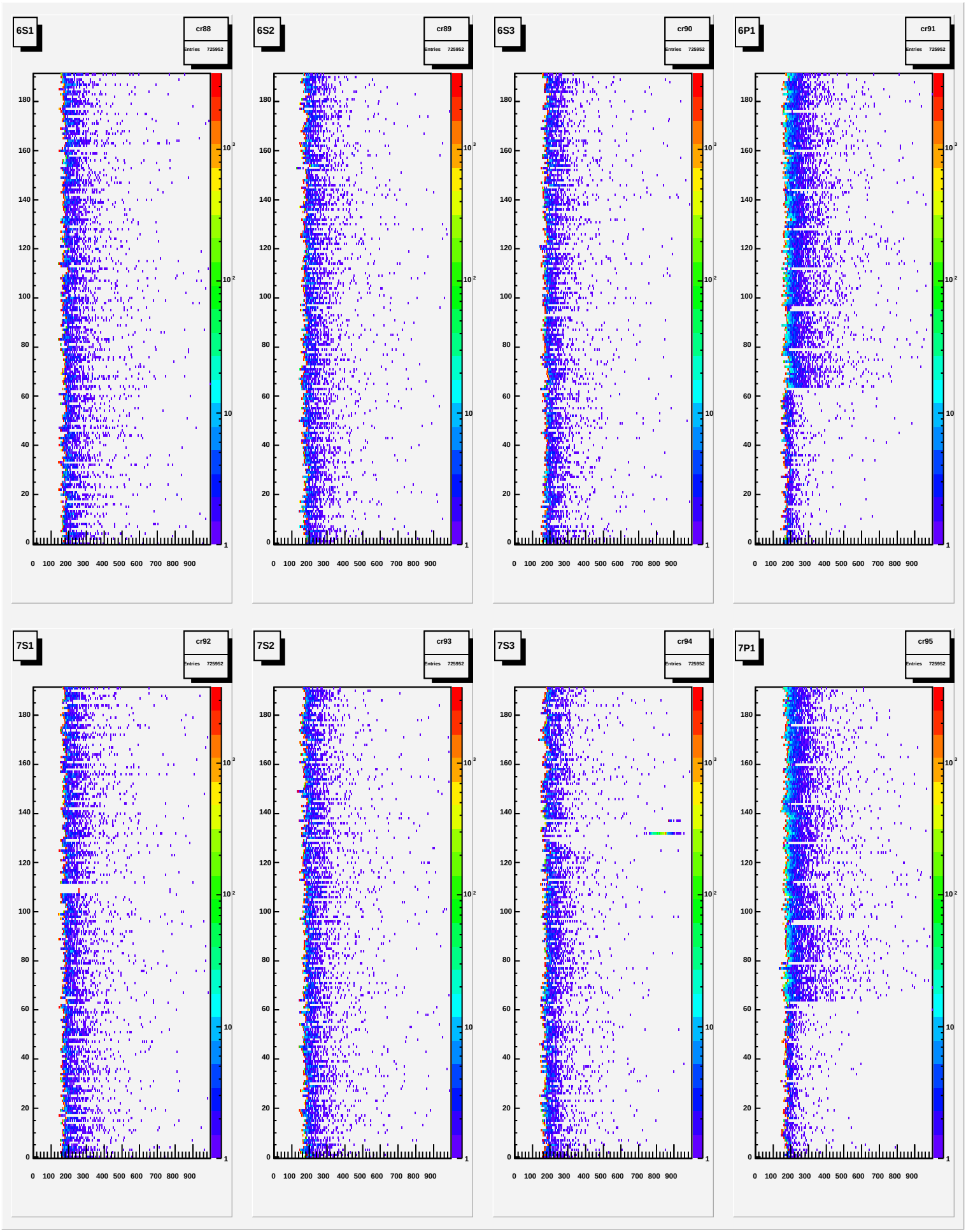

4P1
cr83
Entries 725952

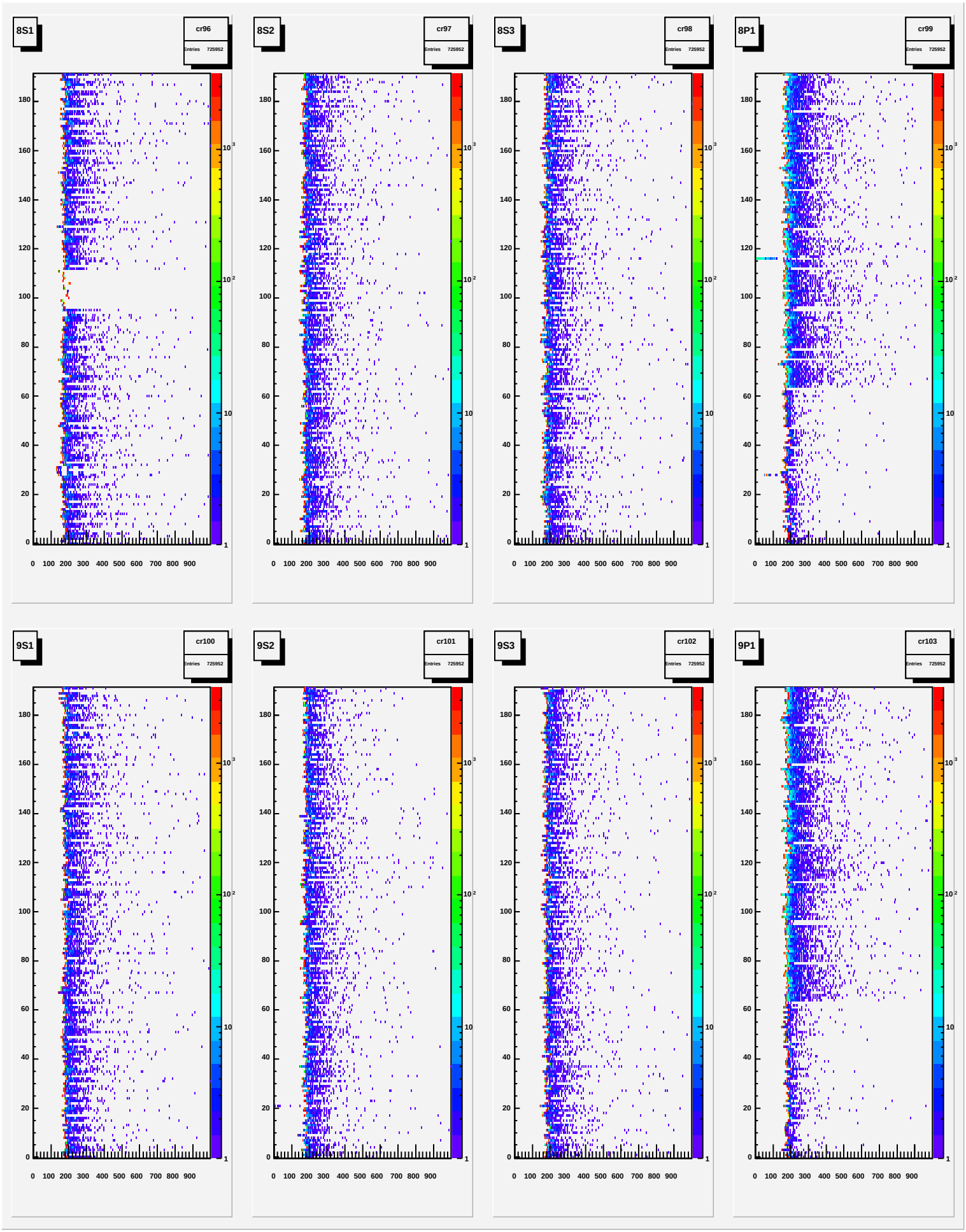

5S1
cr84
Entries 725952


5S2
cr85
Entries 725952


5S3
cr86
Entries 725952


5P1
cr87
Entries 725952


6S1
cr88
Entries 725952
6S2
cr89
Entries 725952
6S3
cr90
Entries 725952
6P1
cr91
Entries 725952
7S1
cr92
Entries 725952
7S2
cr93
Entries 725952
7S3
cr94
Entries 725952
7P1
cr95
Entries 725952
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


8S1
cr96
Entries 725952
8S2
cr97
Entries 725952
8S3
cr98
Entries 725952
8P1
cr99
Entries 725952
9S1
cr100
Entries 725952
9S2
cr101
Entries 725952
9S3
cr102
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9P1
cr103
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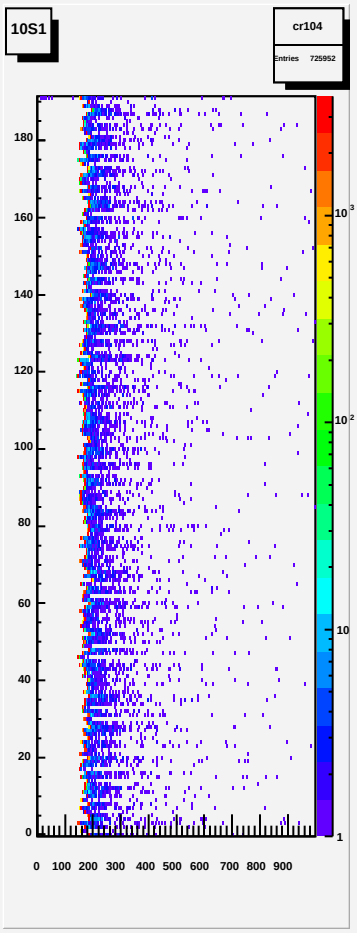
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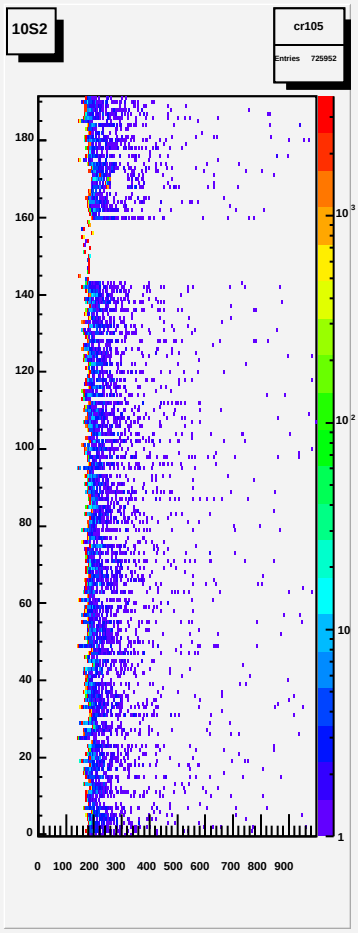
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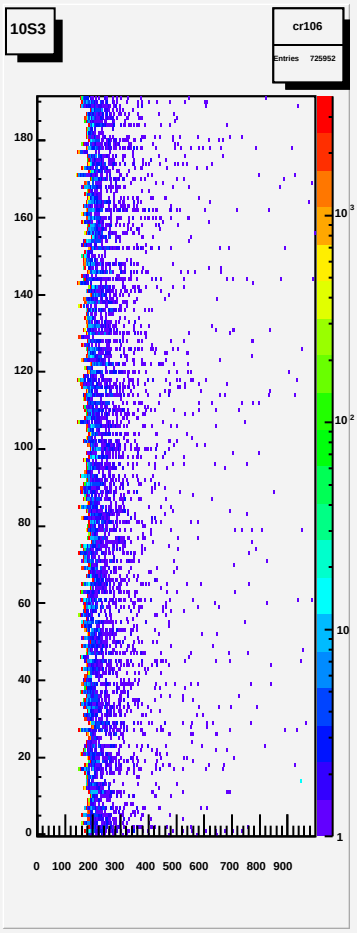
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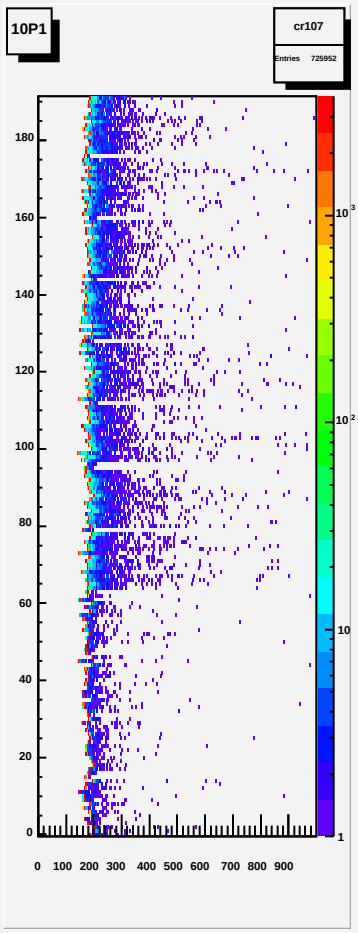
cr106
Entries 725952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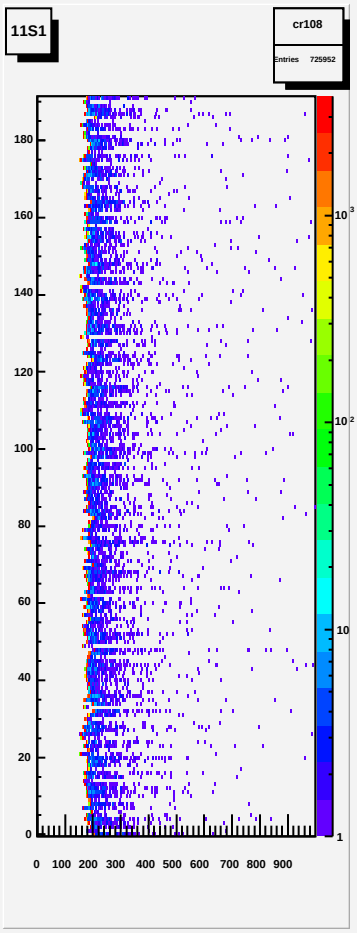
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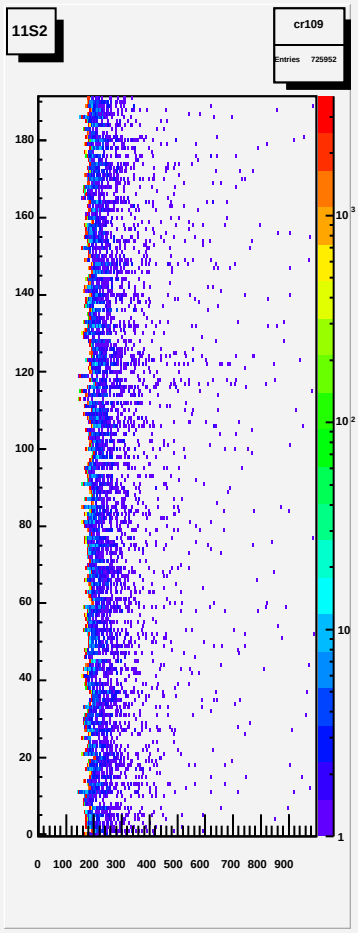
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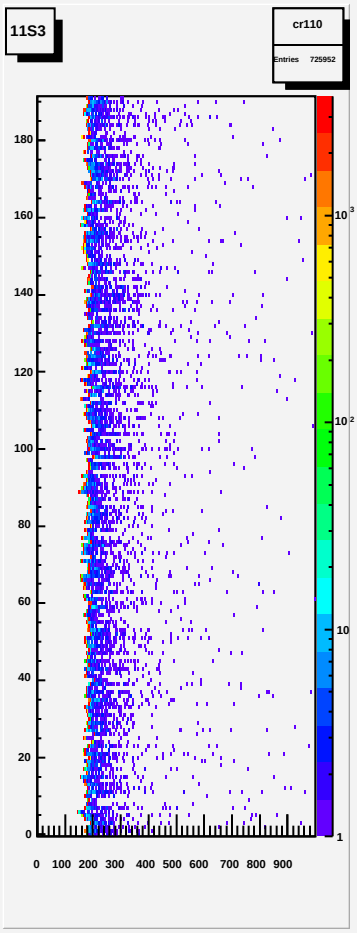
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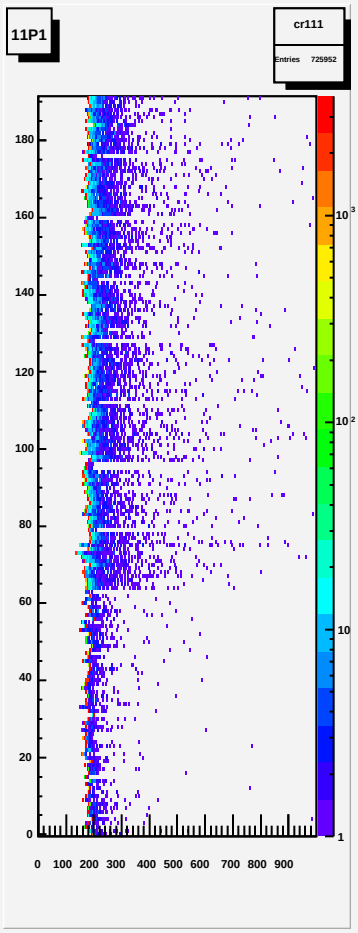
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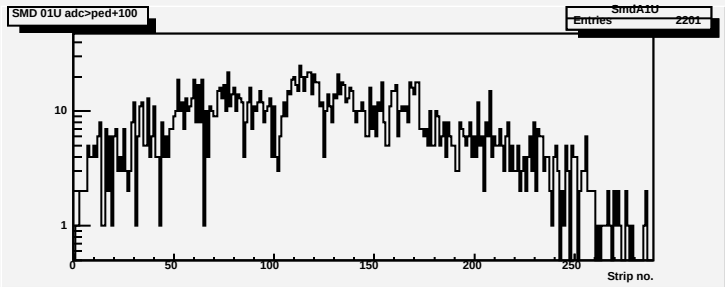
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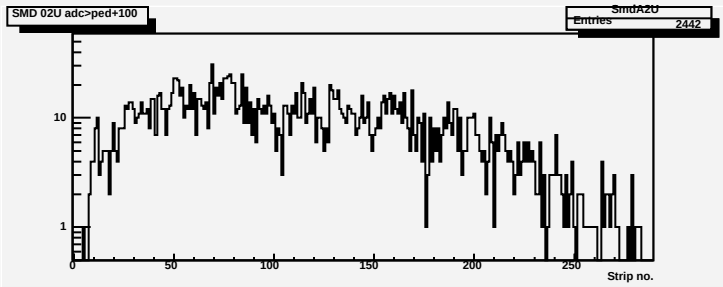
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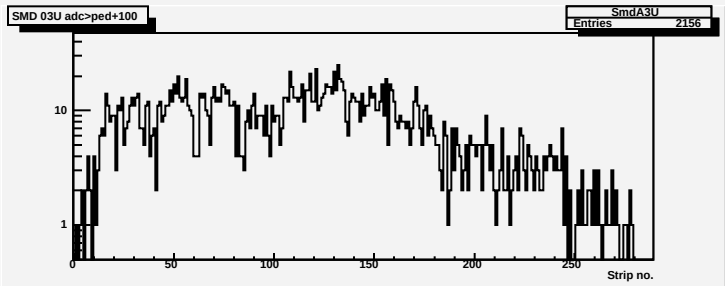
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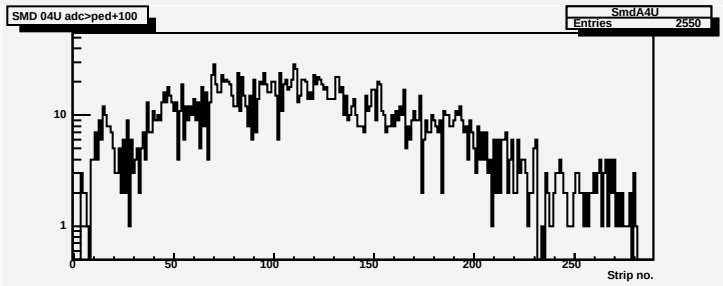
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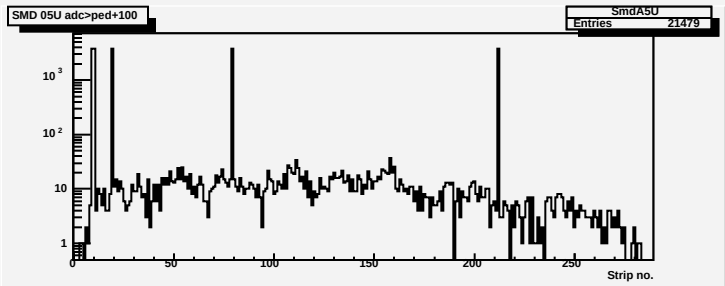
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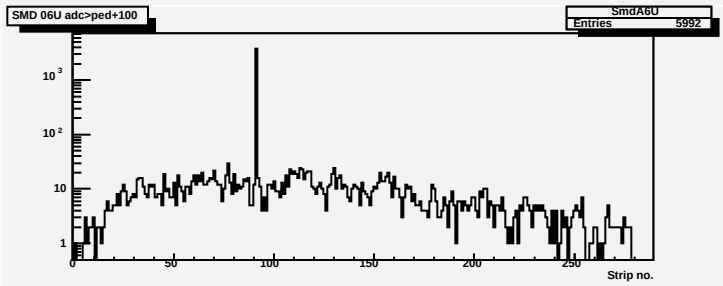
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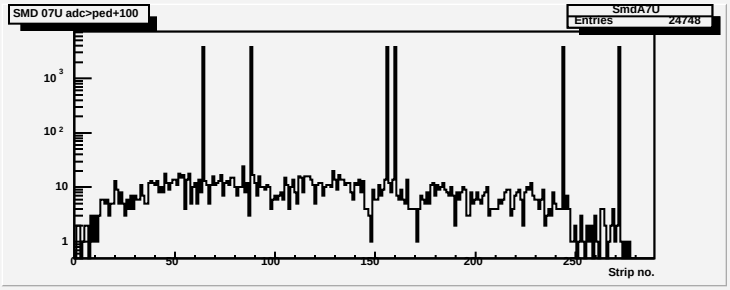
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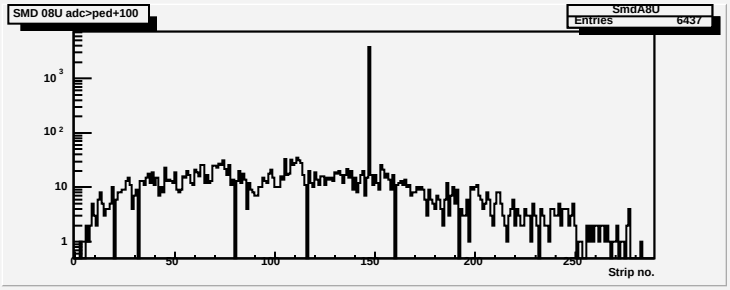
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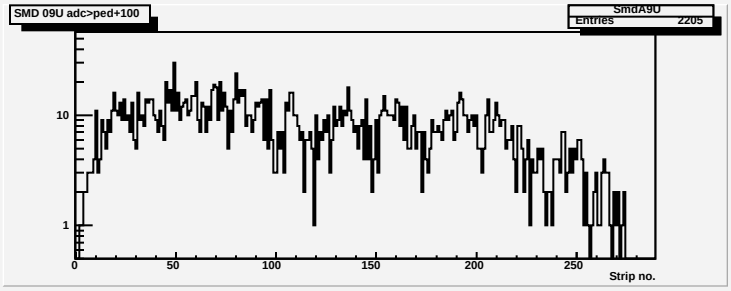
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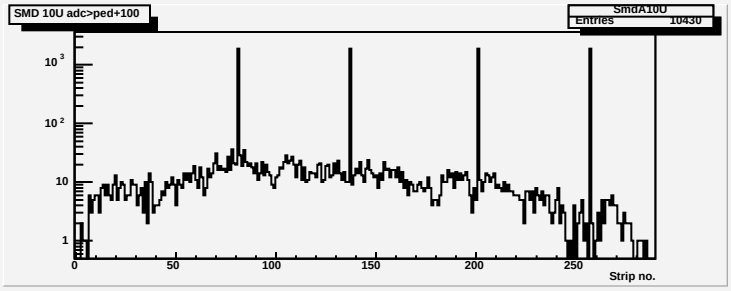
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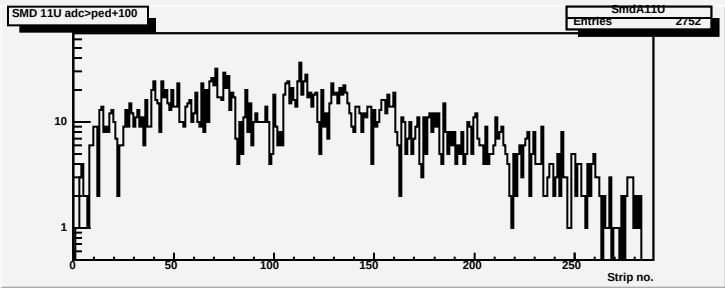
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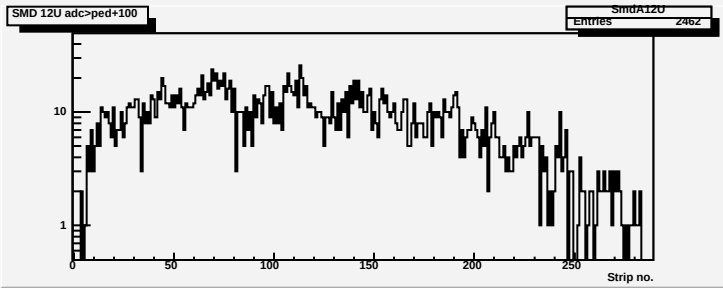
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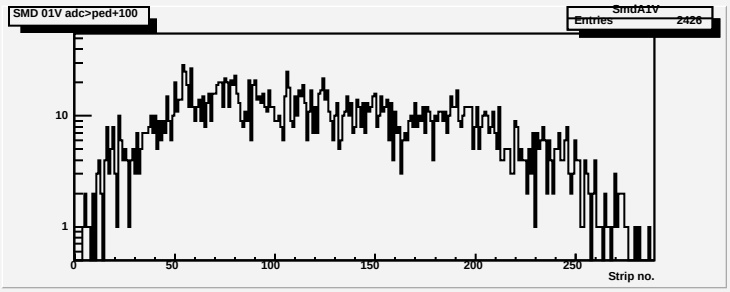
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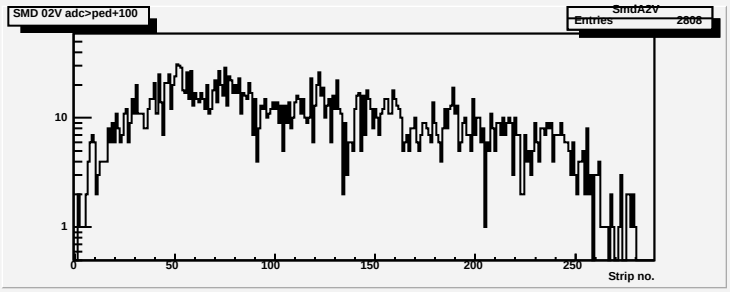
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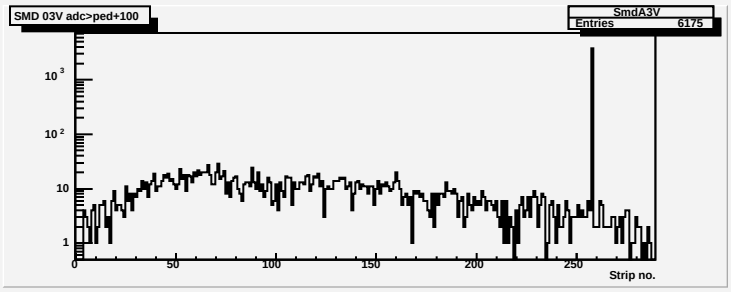
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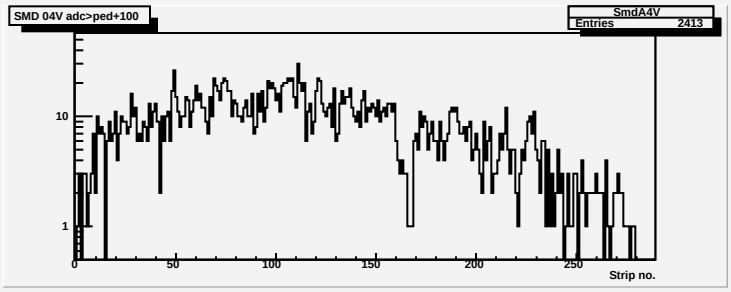
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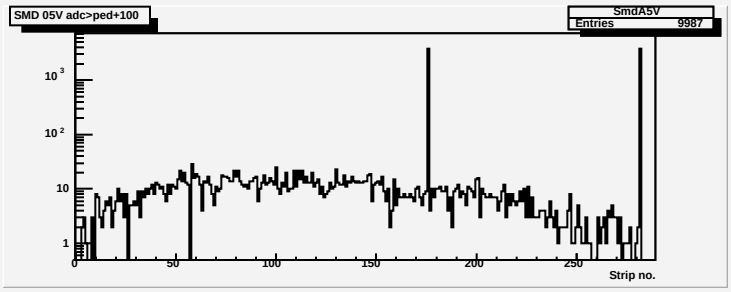
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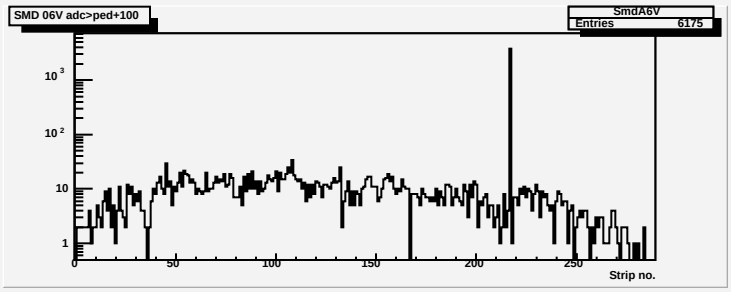
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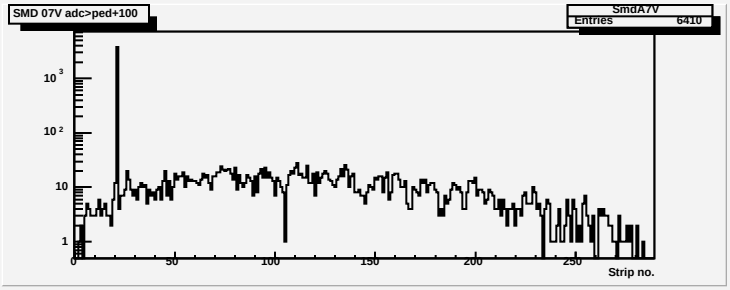
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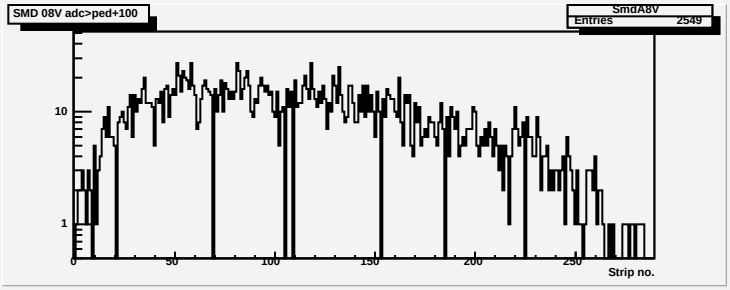
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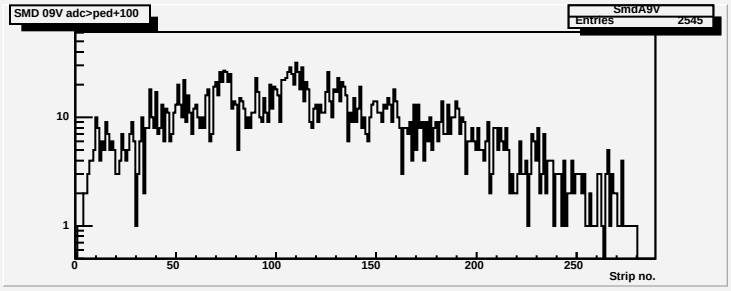
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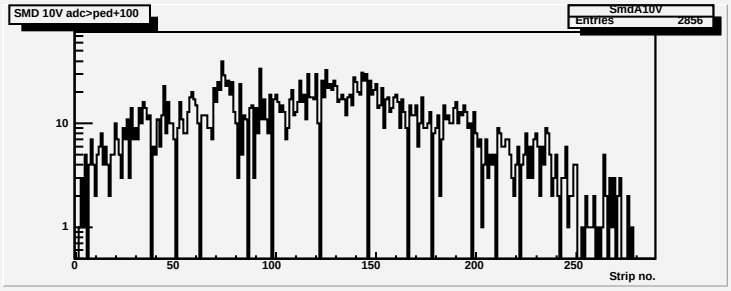
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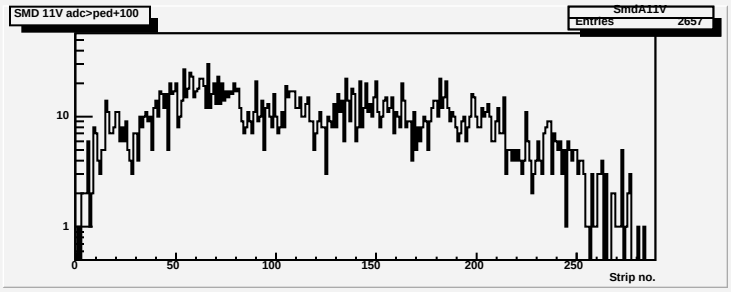
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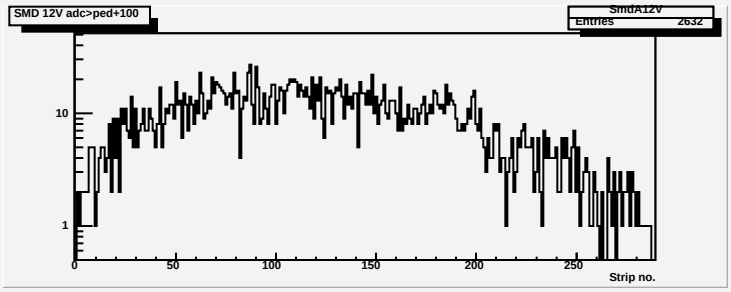
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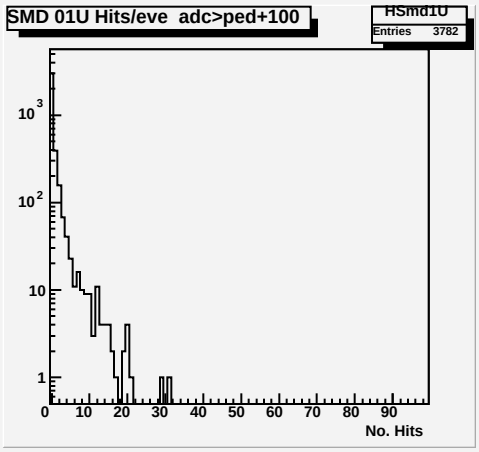
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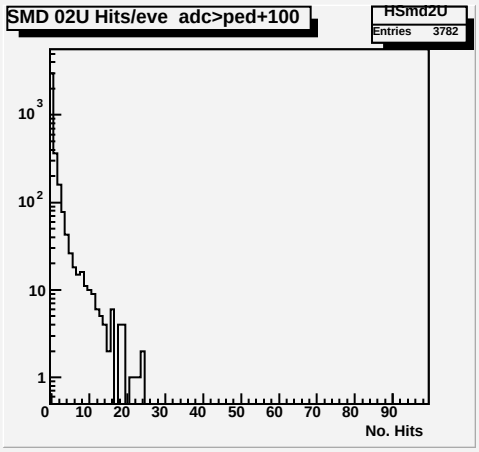
No. Hits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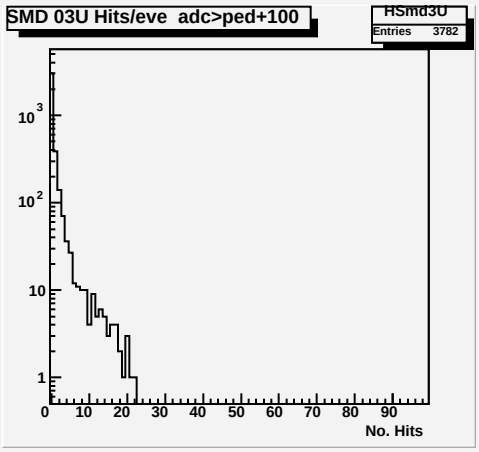
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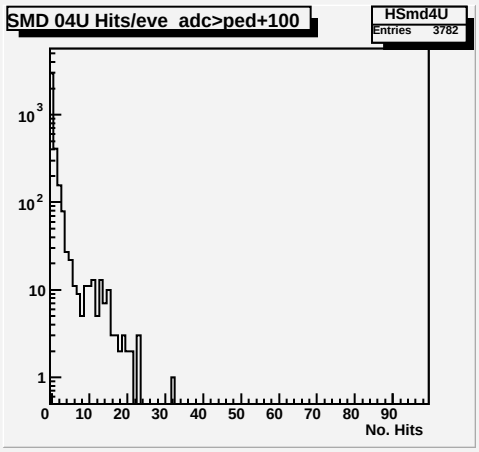
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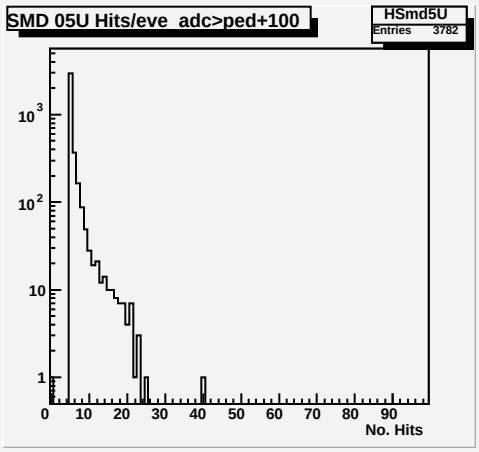
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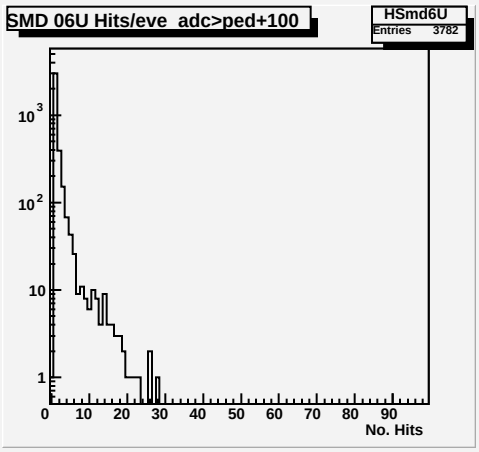
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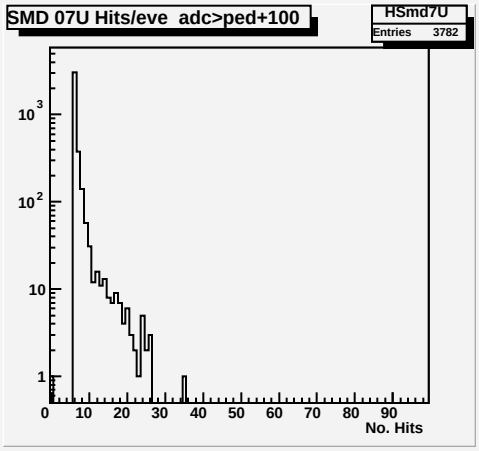
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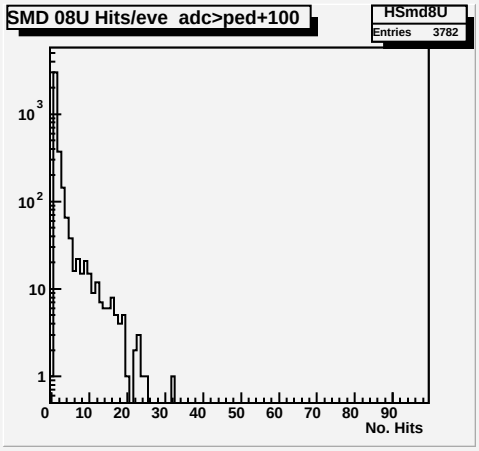
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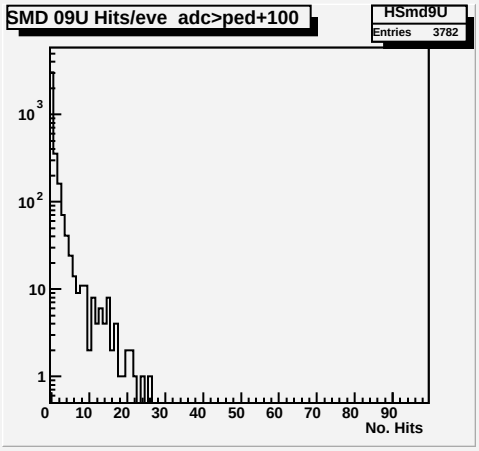
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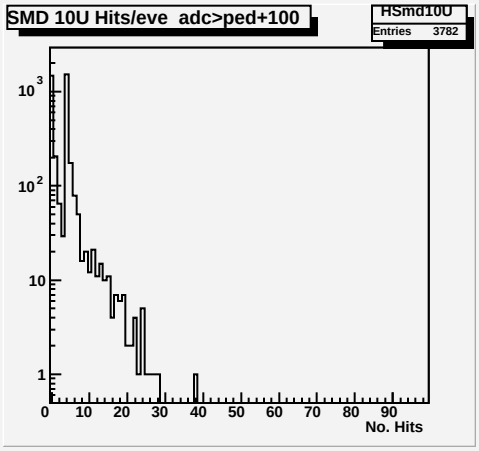
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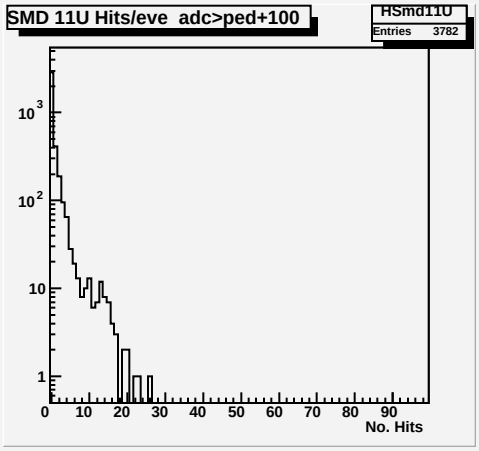
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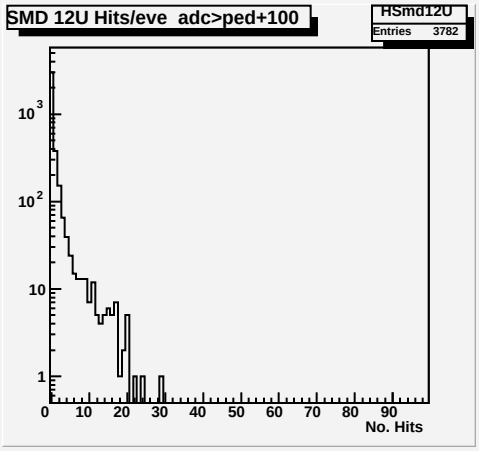
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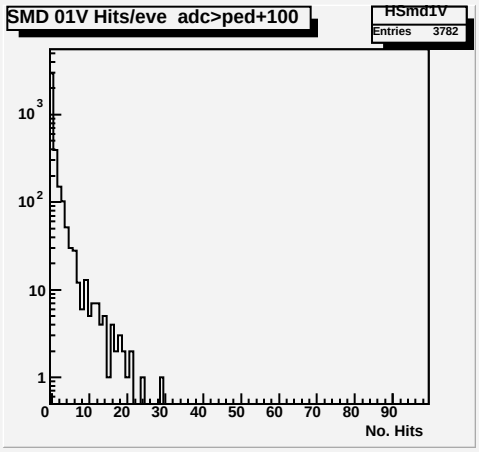
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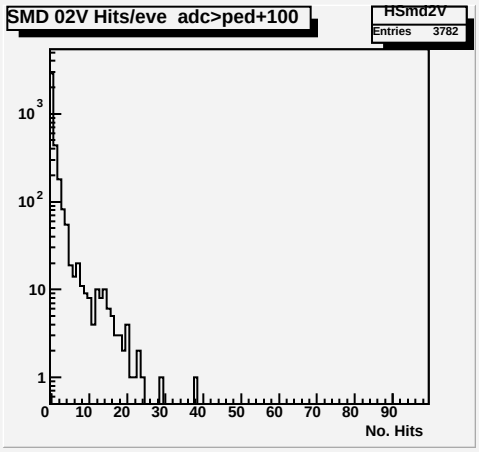
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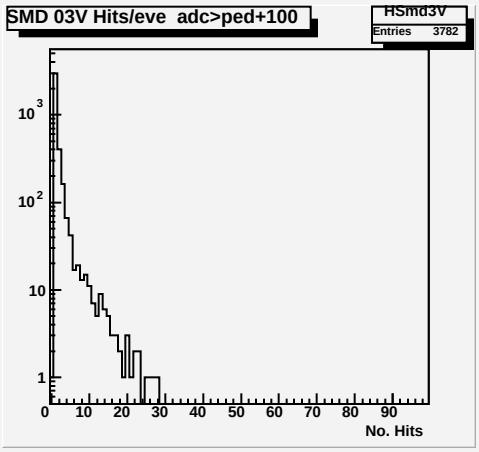
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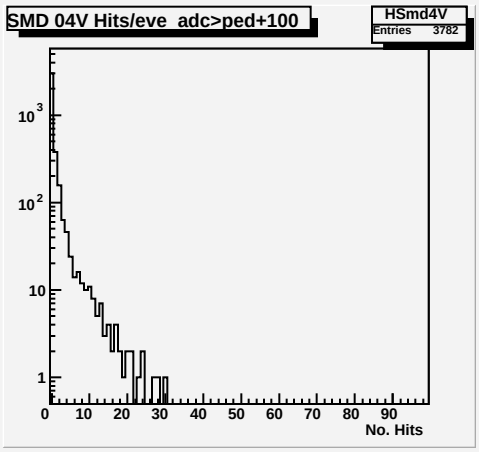
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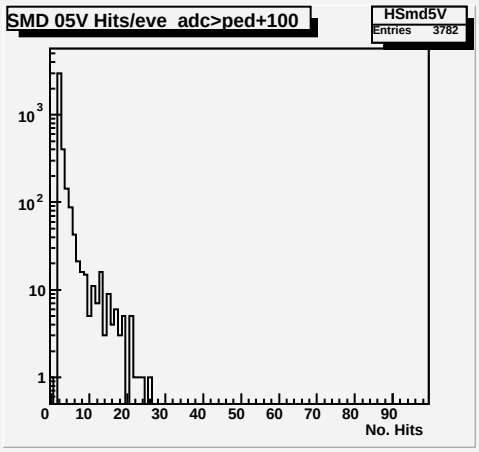
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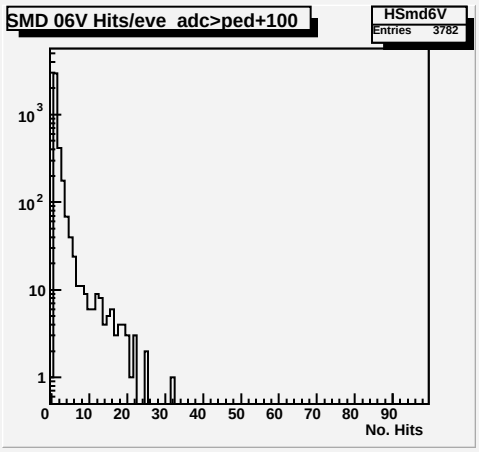
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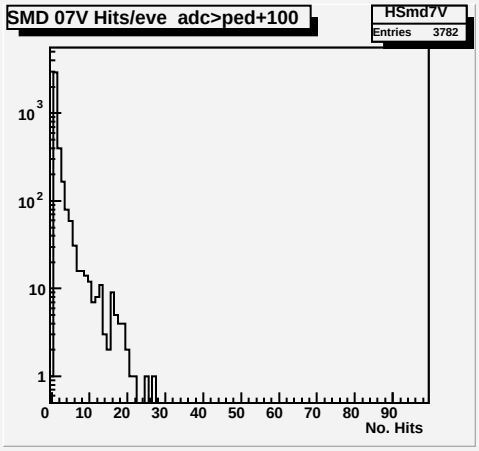
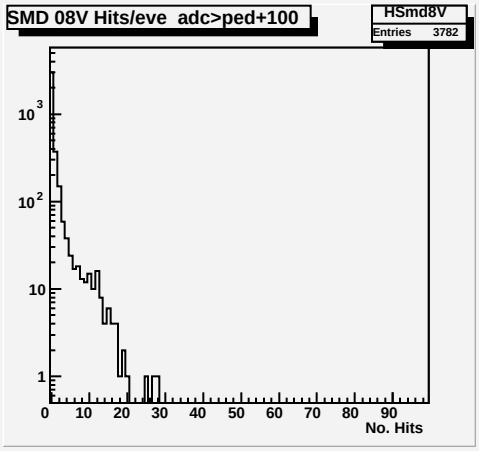
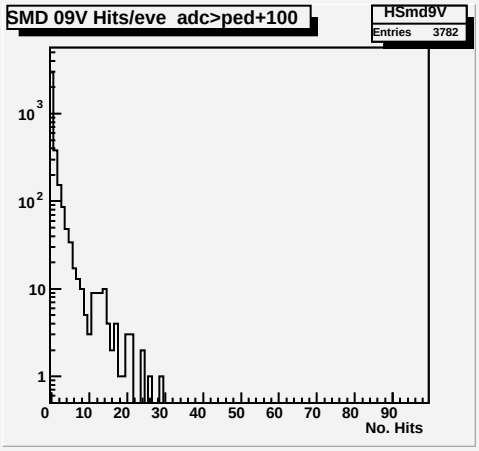
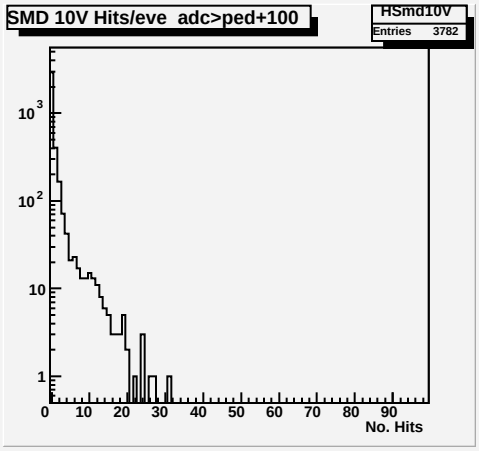
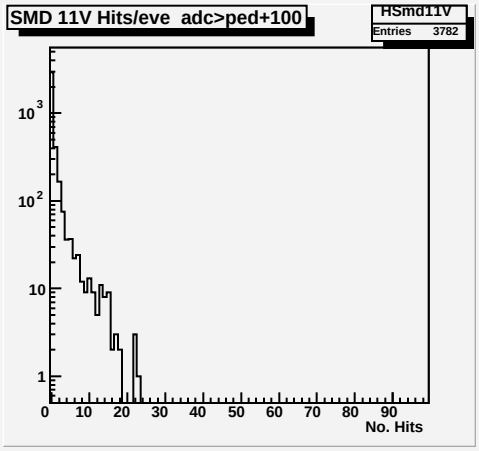
Entries 3782
No. Hits

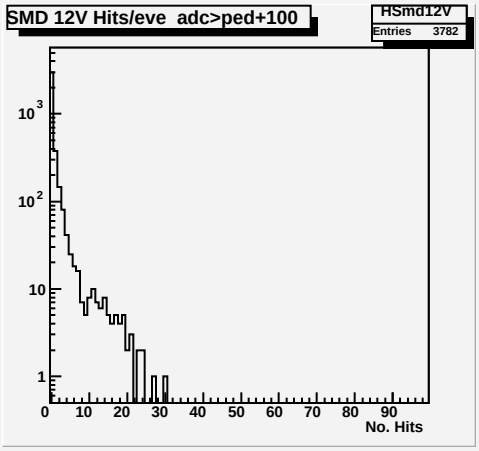

SMD 07V Hits/eve adc>ped+100
HSmd7V
Entries 3782
No. Hits

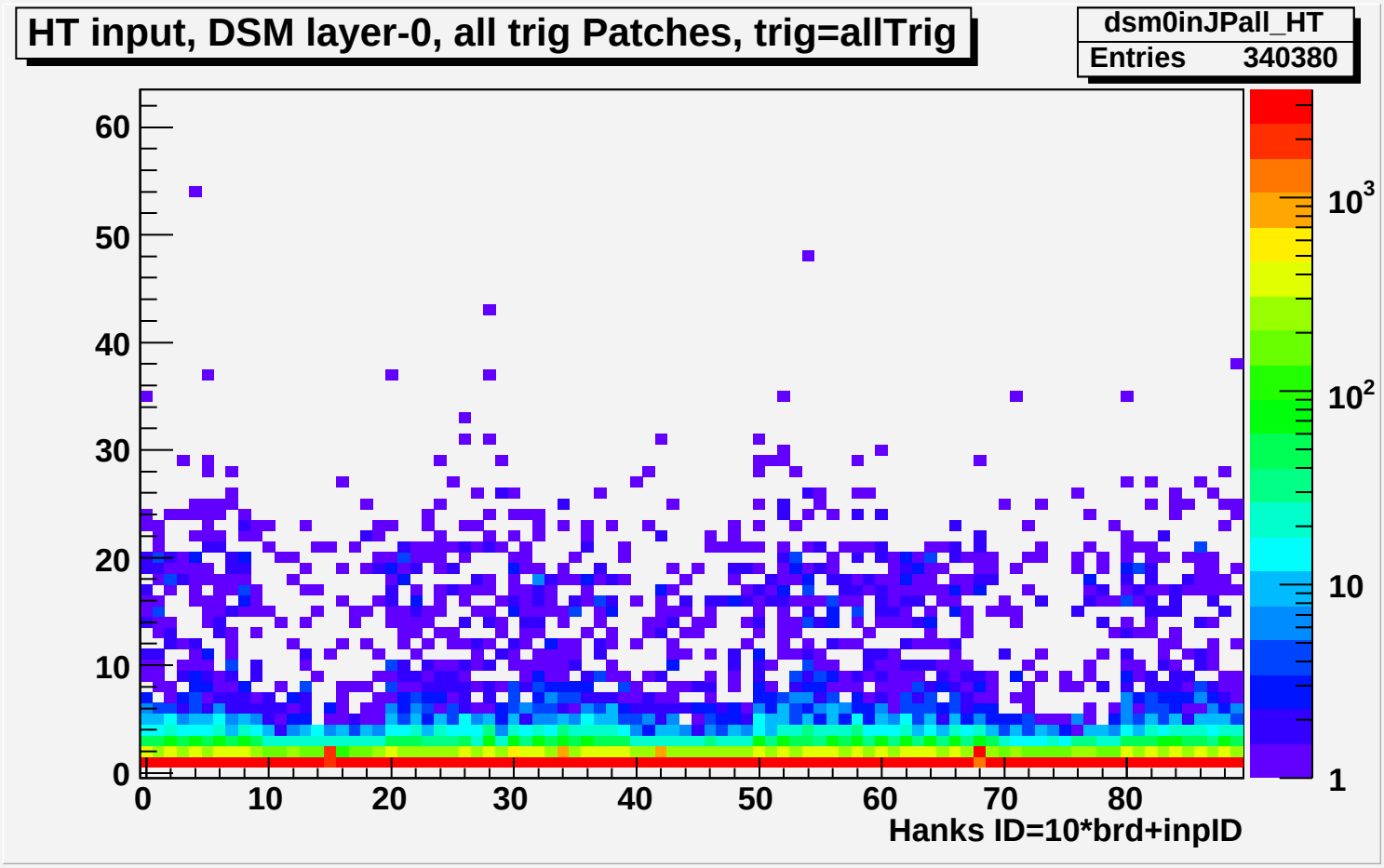

SMD 08V Hits/eve adc>ped+100
HSmd8V
Entries 3782
No. Hits

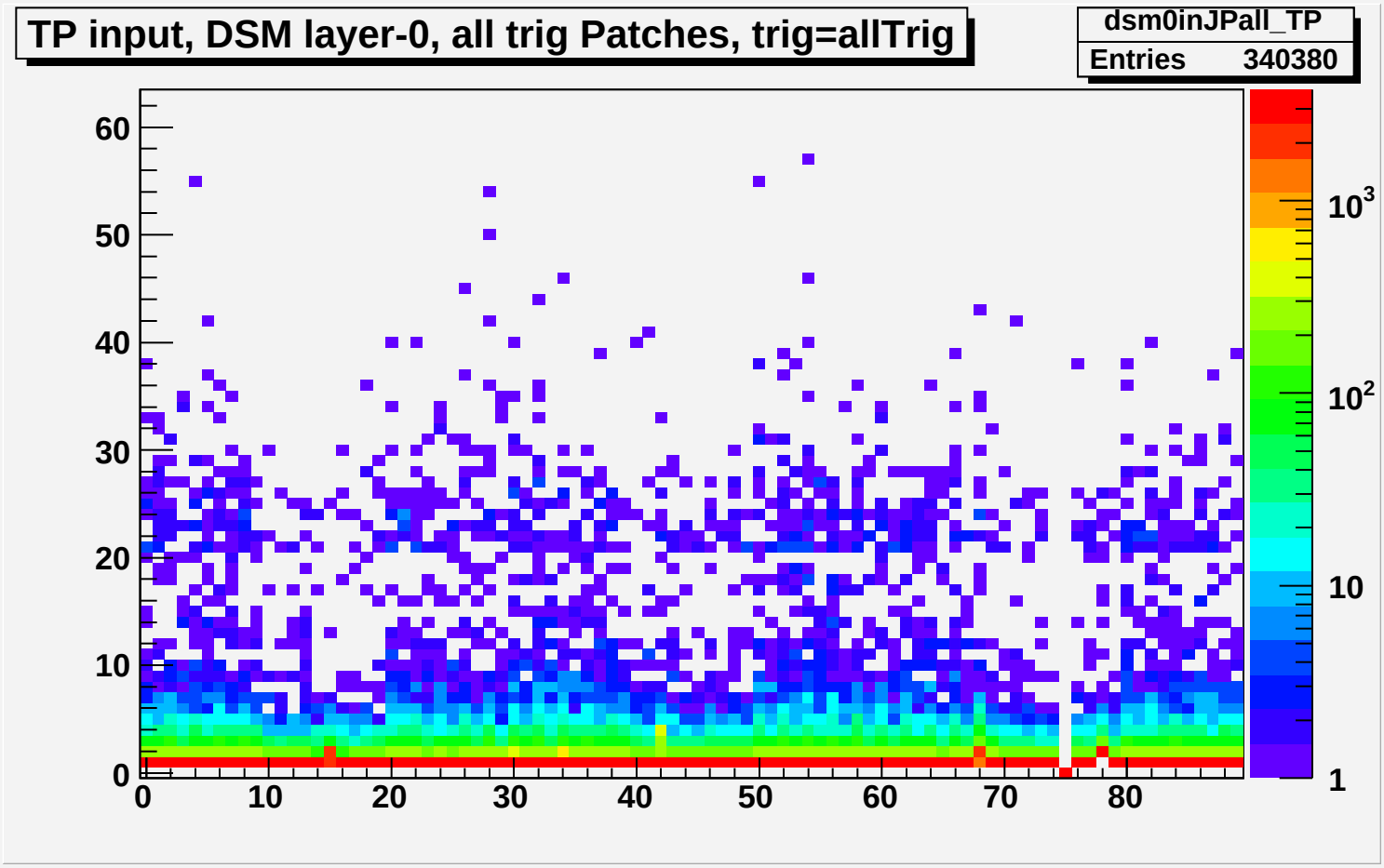

SMD 09V Hits/eve adc>ped+100
HSmd9V
Entries 3782
No. Hits

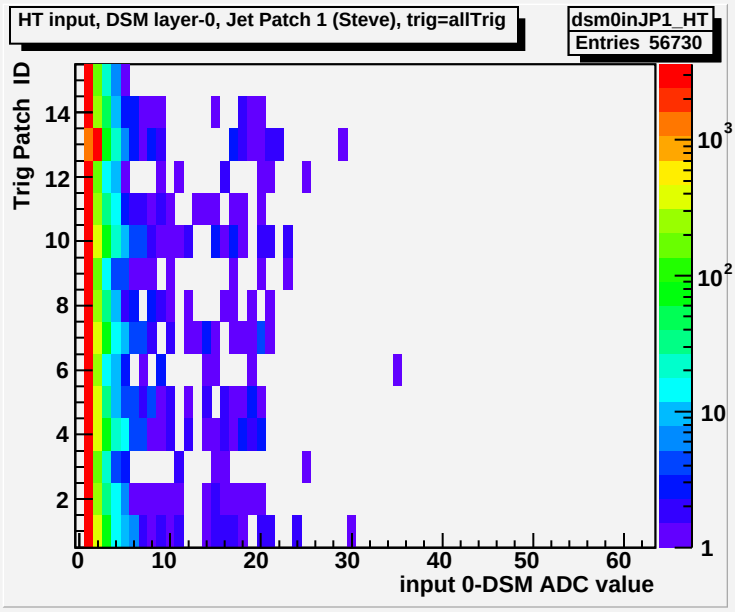

SMD 10V Hits/eve adc>ped+100
HSmd10V
Entries 3782
No. Hits

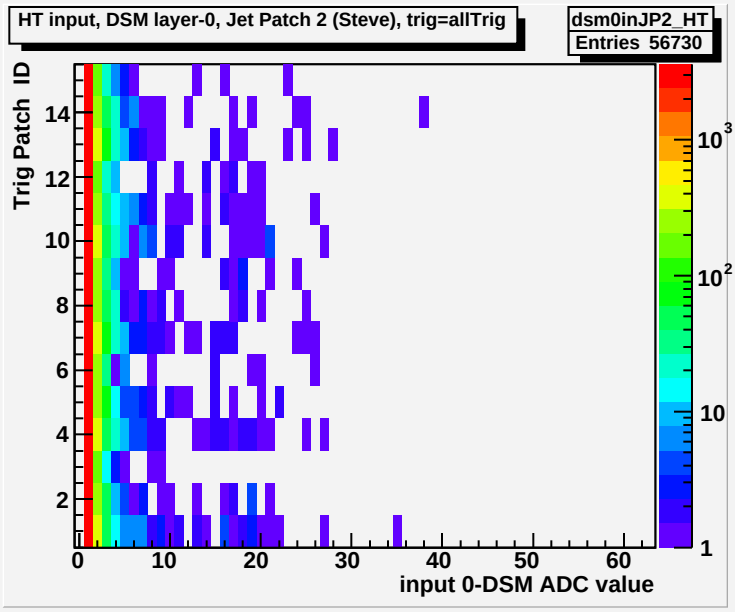

SMD 11V Hits/eve adc>ped+100
HSmd11V
Entries 3782
No. Hits

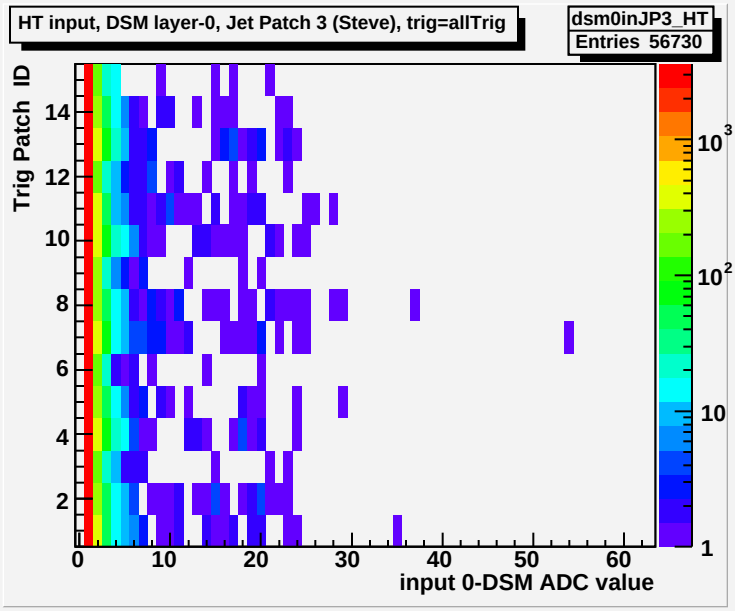

SMD 12V Hits/eve adc>ped+100
HSmd12V
Entries 3782
No. Hits

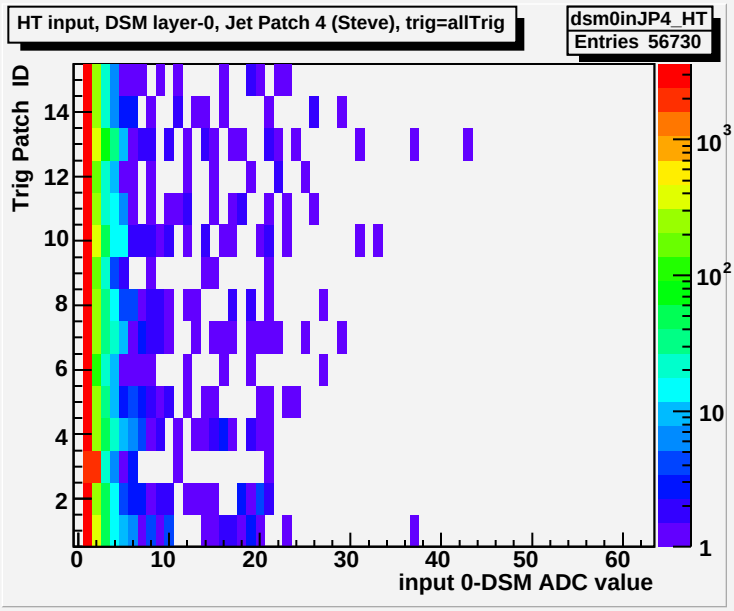

HT input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_HT
Entries 340380
Hanks ID=10*brd+inpID

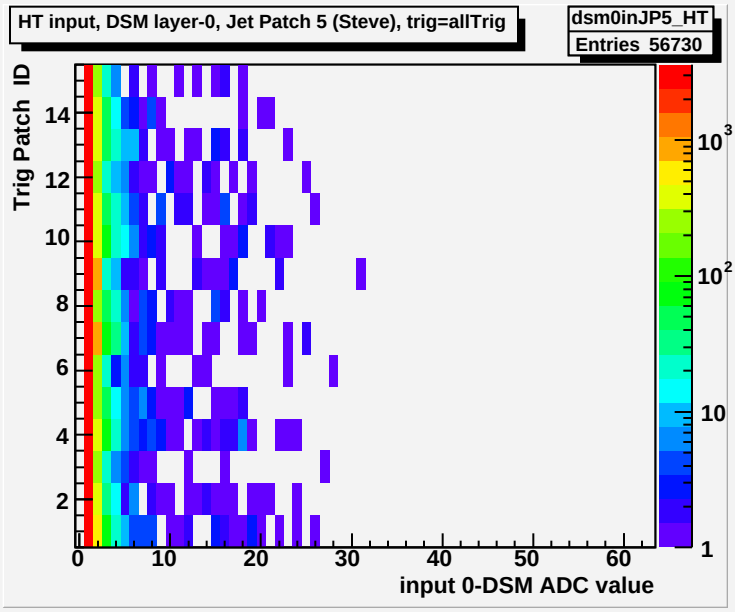

TP input, DSM layer-0, all trig Patches, trig=allTrig
dsm0inJPall_TP
Entries 340380

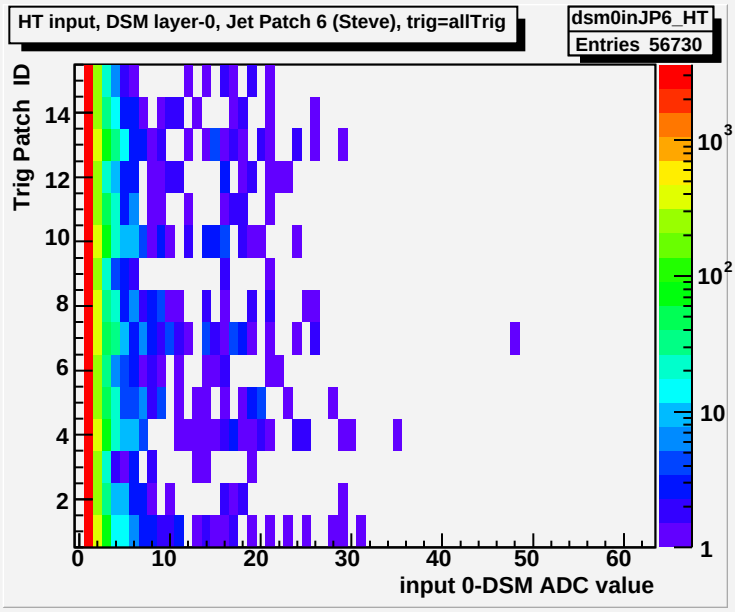

HT input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_HT
Entries 56730
Trig Patch ID
input 0-DSM ADC value

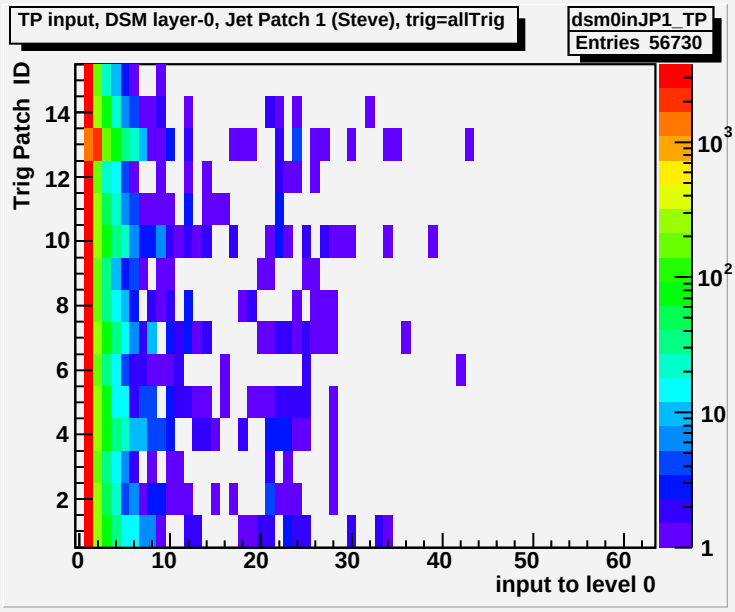

HT input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_HT
Entries 56730
Trig Patch ID
input 0-DSM ADC value

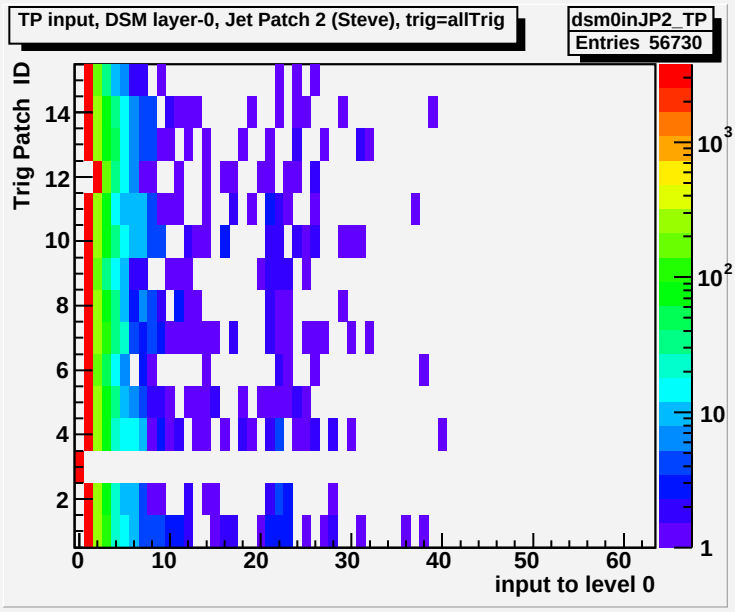

HT input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_HT
Entries 56730
Trig Patch ID
input 0-DSM ADC value

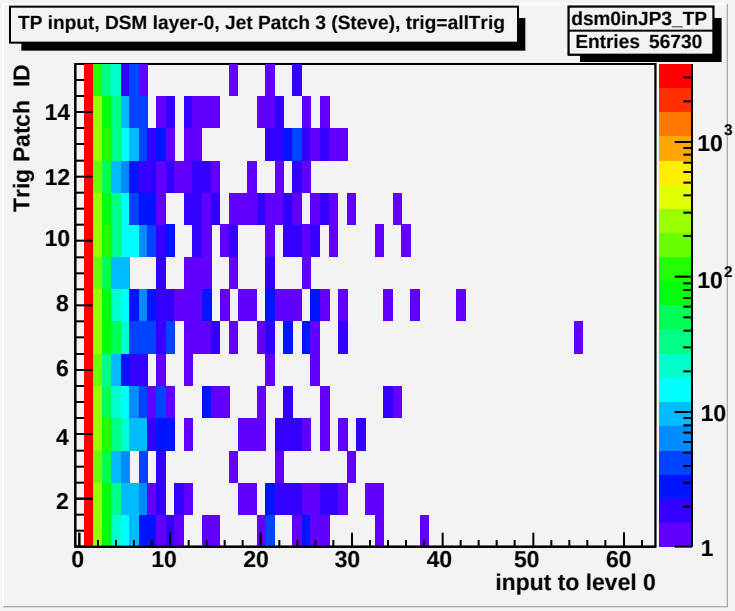

HT input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_HT
Entries 56730
Trig Patch ID
input 0-DSM ADC value

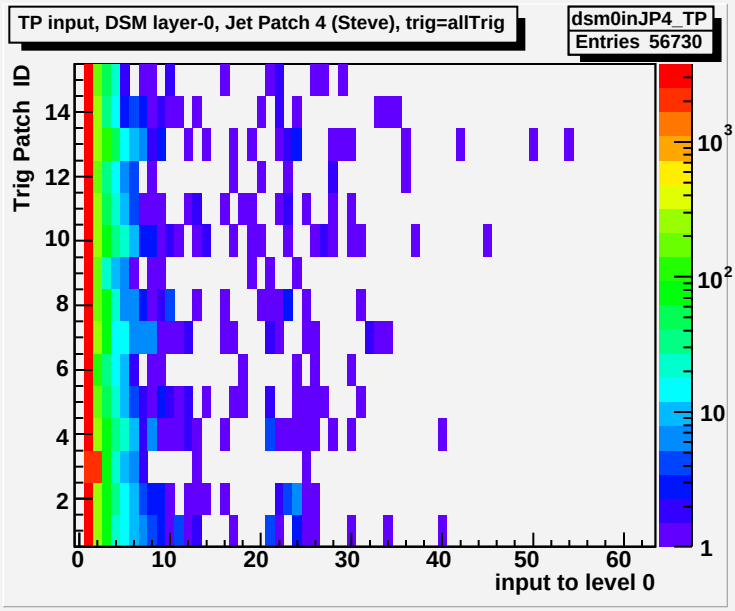

HT input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_HT
Entries 56730
Trig Patch ID
input 0-DSM ADC value

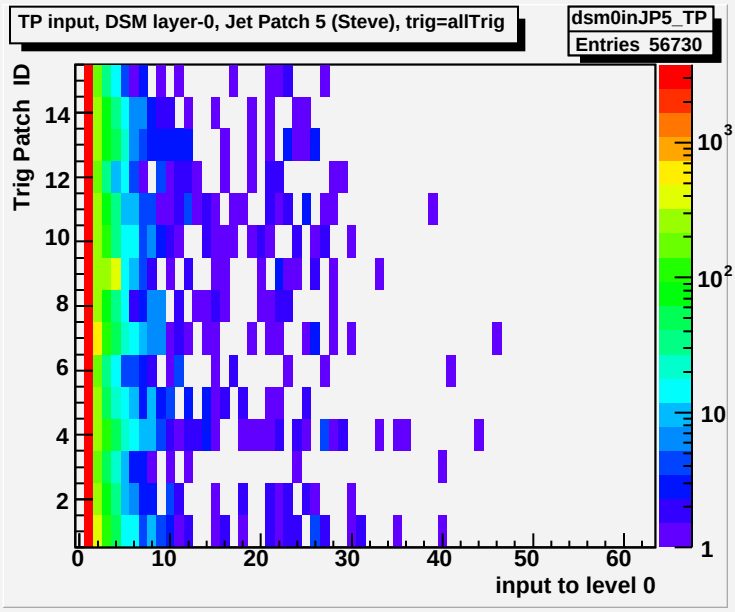

HT input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_HT
Entries 56730
Trig Patch ID
input 0-DSM ADC value

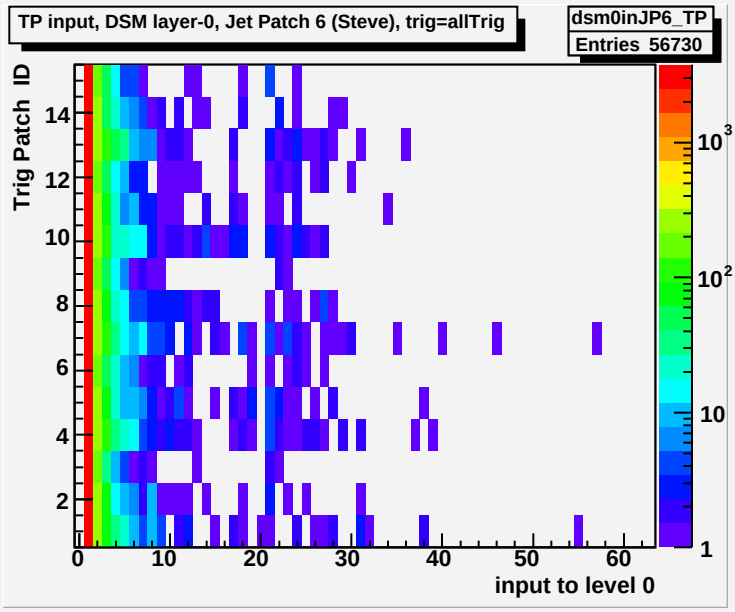

TP input, DSM layer-0, Jet Patch 1 (Steve), trig=allTrig
dsm0inJP1_TP
Entries 56730
Trig Patch ID
input to level 0

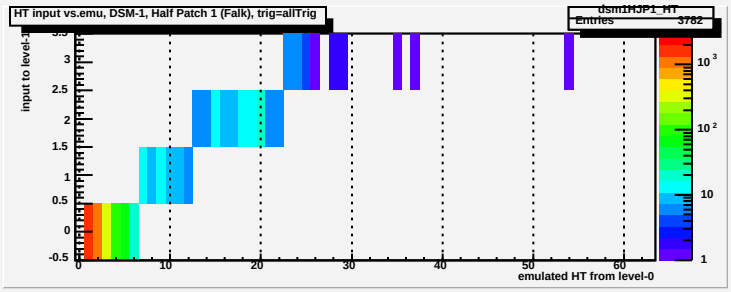

TP input, DSM layer-0, Jet Patch 2 (Steve), trig=allTrig
dsm0inJP2_TP
Entries 56730
Trig Patch ID
input to level 0

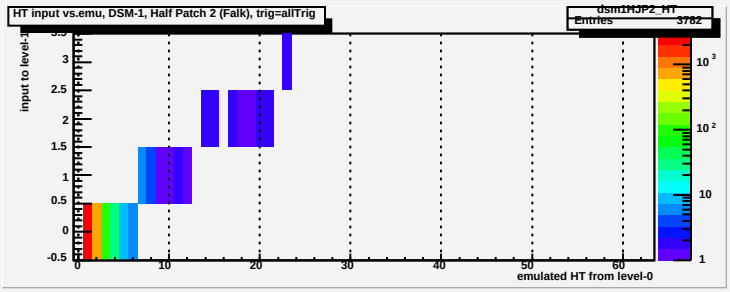

TP input, DSM layer-0, Jet Patch 3 (Steve), trig=allTrig
dsm0inJP3_TP
Entries 56730
Trig Patch ID
input to level 0

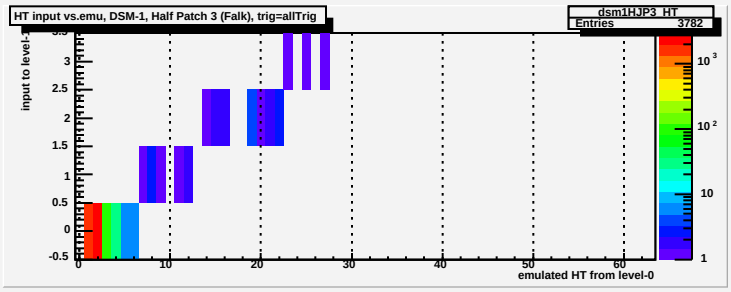

TP input, DSM layer-0, Jet Patch 4 (Steve), trig=allTrig
dsm0inJP4_TP
Entries 56730
Trig Patch ID
input to level 0

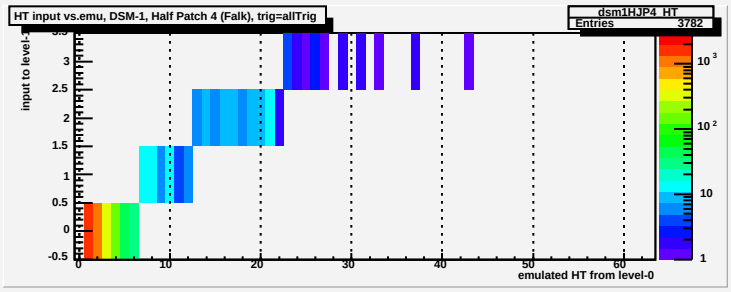

TP input, DSM layer-0, Jet Patch 5 (Steve), trig=allTrig
dsm0inJP5_TP
Entries 56730
Trig Patch ID
input to level 0

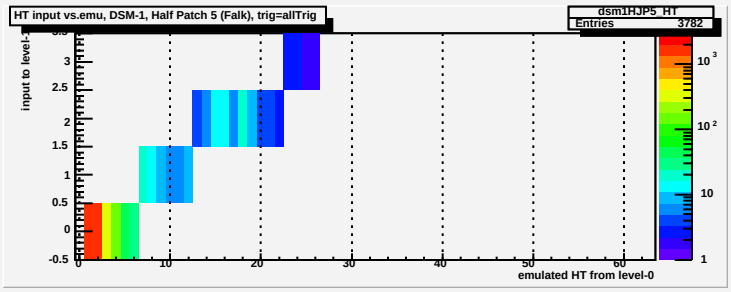

TP input, DSM layer-0, Jet Patch 6 (Steve), trig=allTrig
dsm0inJP6_TP
Entries 56730
Trig Patch ID
input to level 0

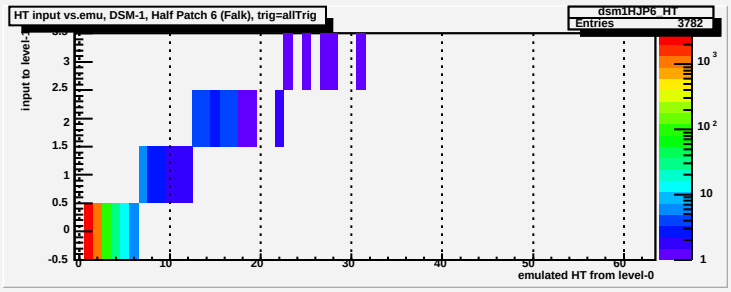

HT input vs.emu, DSM-1, Half Patch 1 (Falk), trig=allTrig
dsm1HJP1_HT
Entries 3782
input to level-1
emulated HT from level-0

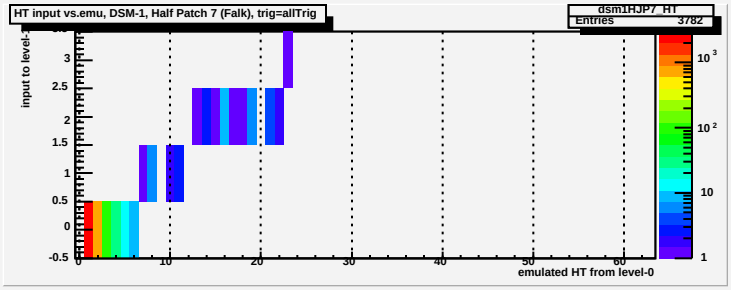

HT input vs.emu, DSM-1, Half Patch 2 (Falk), trig=allTrig
dsm1HJP2_HT
Entries 3782
input to level-1
emulated HT from level-0

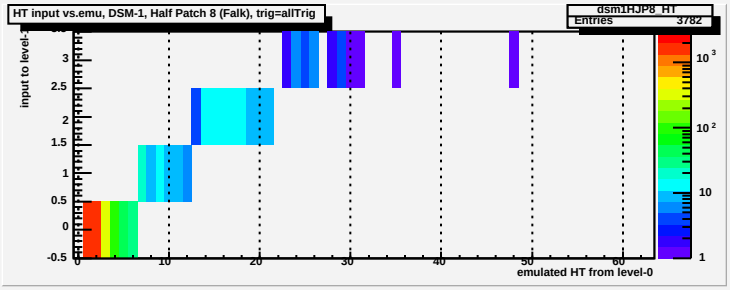

HT input vs.emu, DSM-1, Half Patch 3 (Falk), trig=allTrig
dsm1HJP3_HT
Entries 3782
input to level-1
emulated HT from level-0

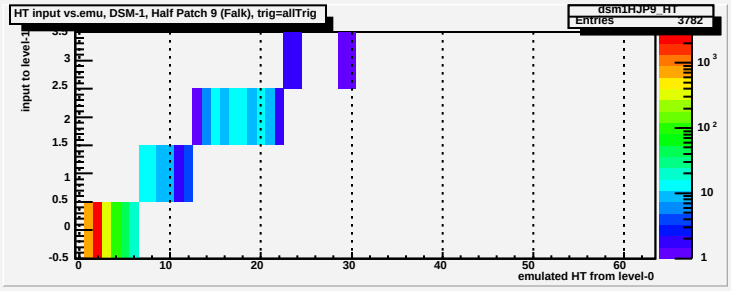

HT input vs.emu, DSM-1, Half Patch 4 (Falk), trig=allTrig
dsm1HJP4_HT
Entries 3782
input to level-1
emulated HT from level-0

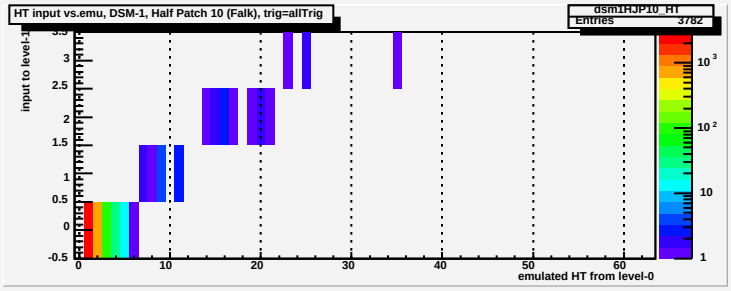

HT input vs.emu, DSM-1, Half Patch 5 (Falk), trig=allTrig
dsm1HJP5_HT
Entries 3782
input to level-1
emulated HT from level-0

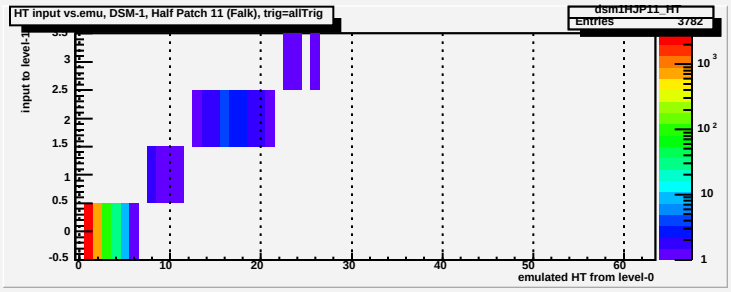

HT input vs.emu, DSM-1, Half Patch 6 (Falk), trig=allTrig
dsm1HJP6_HT
Entries 3782
input to level-1
emulated HT from level-0

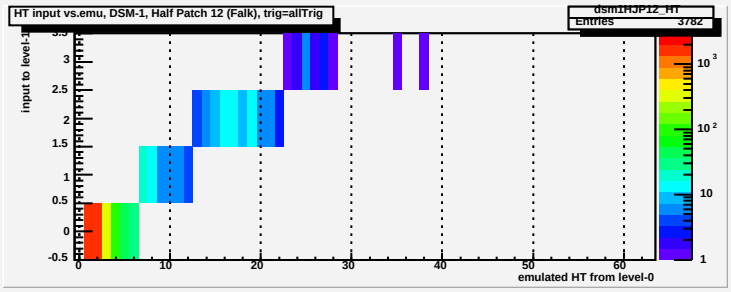

HT input vs.emu, DSM-1, Half Patch 7 (Falk), trig=allTrig
dsm1HJP7_HT
Entries 3782
input to level-1
emulated HT from level-0

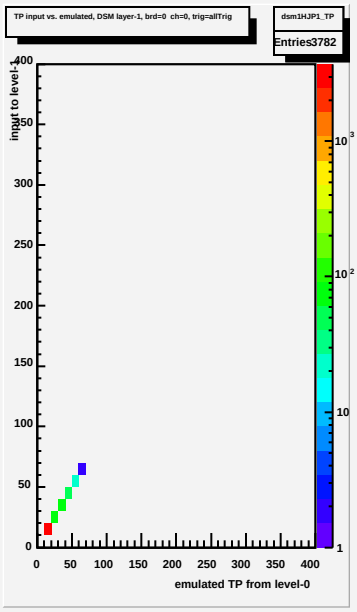

HT input vs.emu, DSM-1, Half Patch 8 (Falk), trig=allTrig
dsm1HJP8_HT
Entries 3782
input to level-1
emulated HT from level-0

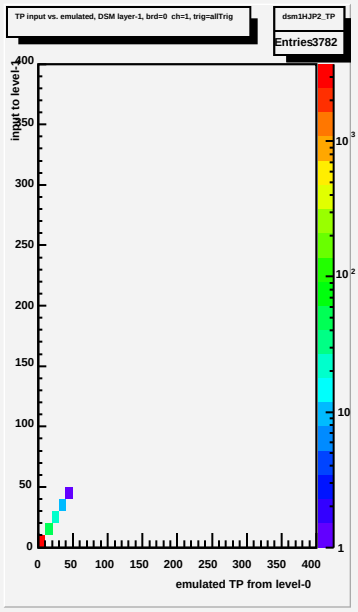

HT input vs.emu, DSM-1, Half Patch 9 (Falk), trig=allTrig
dsm1HJP9_HT
Entries 3782
input to level-1
emulated HT from level-0

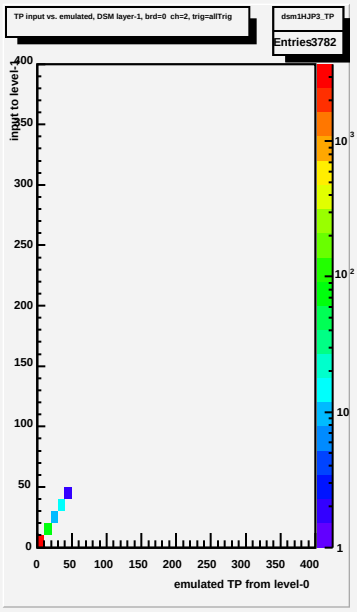

HT input vs.emu, DSM-1, Half Patch 10 (Falk), trig=allTrig
dsm1HJP10_HT
Entries 3782
input to level-1
emulated HT from level-0

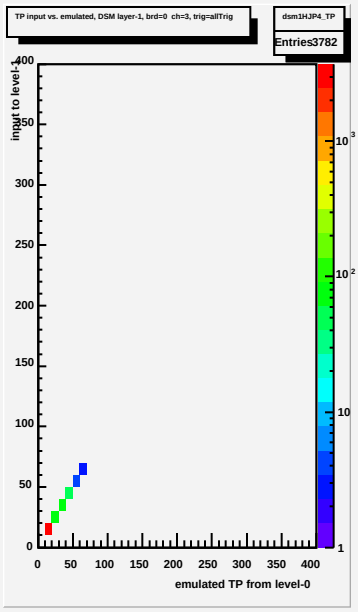

HT input vs.emu, DSM-1, Half Patch 11 (Falk), trig=allTrig
dsm1HJP11_HT
Entries 3782
input to level-1
emulated HT from level-0

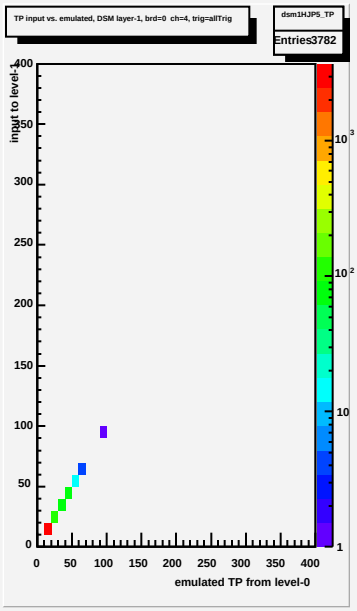

HT input vs.emu, DSM-1, Half Patch 12 (Falk), trig=allTrig
dsm1HJP12_HT
Entries 3782
input to level-1
emulated HT from level-0

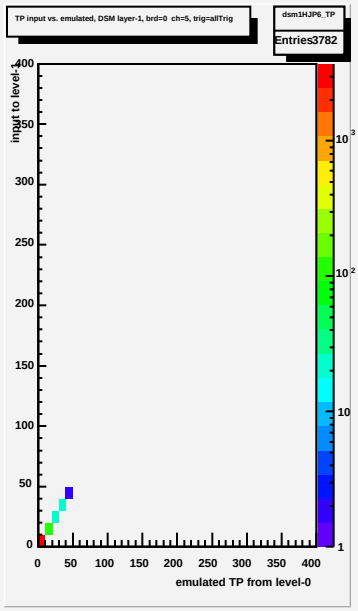

TP input vs. emulated, DSM layer-1, brd=0 ch=0, trig=allTrig
dsm1HJP1_TP
Entries3782
input to level-1
emulated TP from level-0

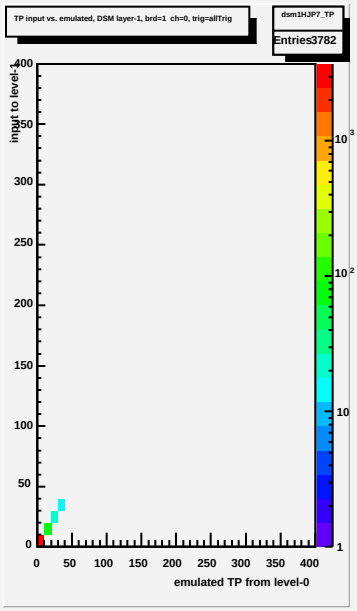

TP input vs. emulated, DSM layer-1, brd=0 ch=1, trig=allTrig
dsm1HJP2_TP
Entries3782
input to level-1
emulated TP from level-0

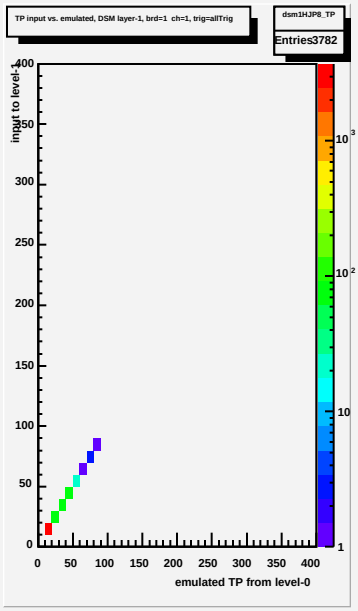

TP input vs. emulated, DSM layer-1, brd=0 ch=2, trig=allTrig
dsm1HJP3_TP
Entries3782
input to level-1
emulated TP from level-0

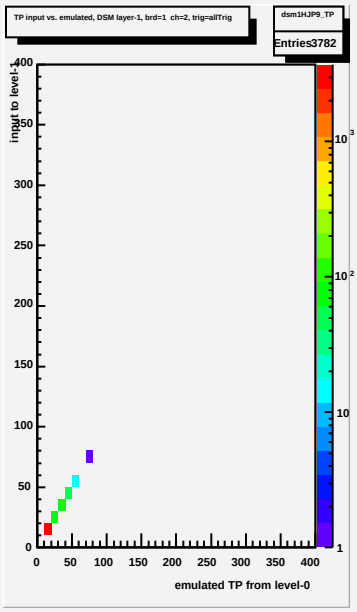

TP input vs. emulated, DSM layer-1, brd=0 ch=3, trig=allTrig
dsm1HJP4_TP
Entries3782
input to level-1
emulated TP from level-0

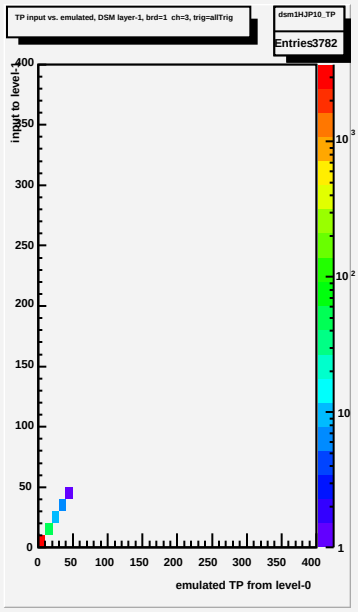

TP input vs. emulated, DSM layer-1, brd=0 ch=4, trig=allTrig
dsm1HJP5_TP
Entries3782
input to level-1
emulated TP from level-0

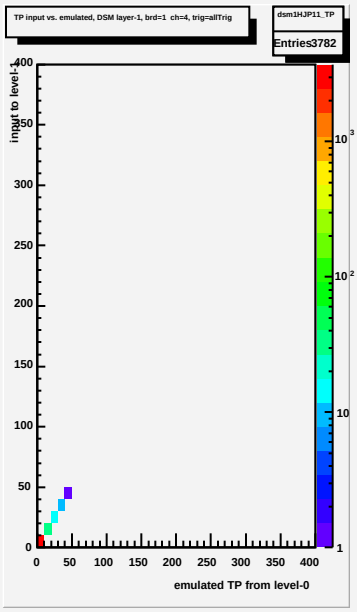

TP input vs. emulated, DSM layer-1, brd=0 ch=5, trig=allTrig
dsm1HJP6_TP
Entries3782
input to level-1
emulated TP from level-0

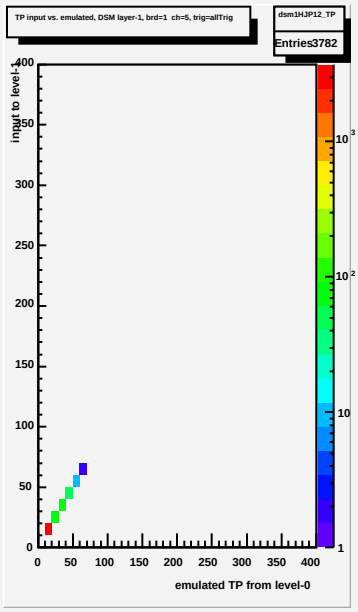

TP input vs. emulated, DSM layer-1, brd=1 ch=0, trig=allTrig
dsm1HJP7_TP
Entries3782
input to level-1
emulated TP from level-0

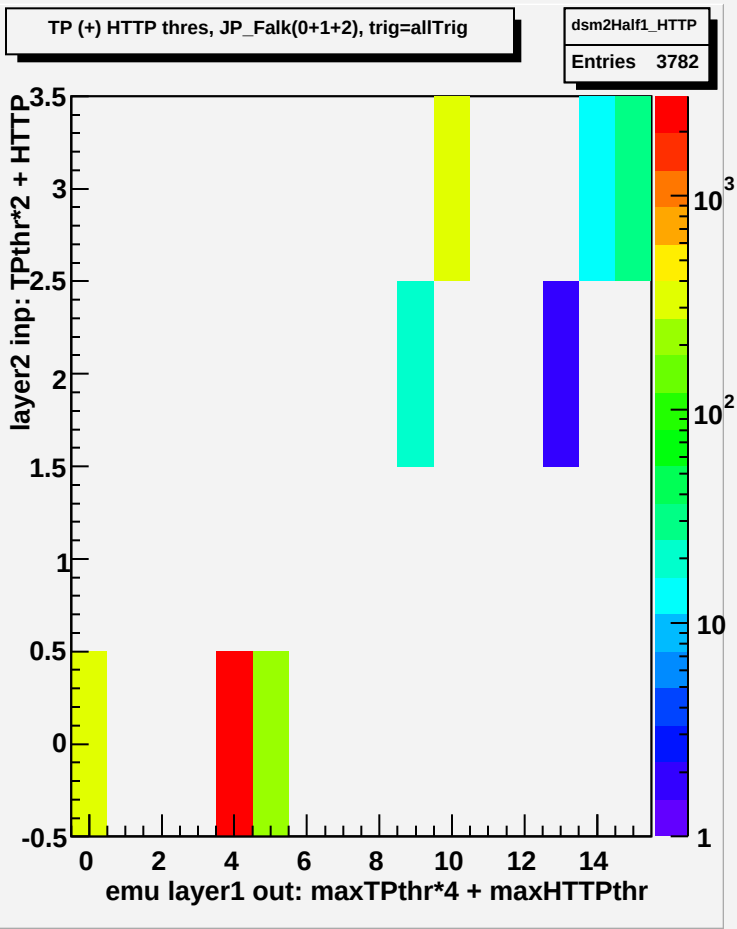

TP input vs. emulated, DSM layer-1, brd=1 ch=1, trig=allTrig
dsm1HJP8_TP
Entries3782
input to level-1
emulated TP from level-0

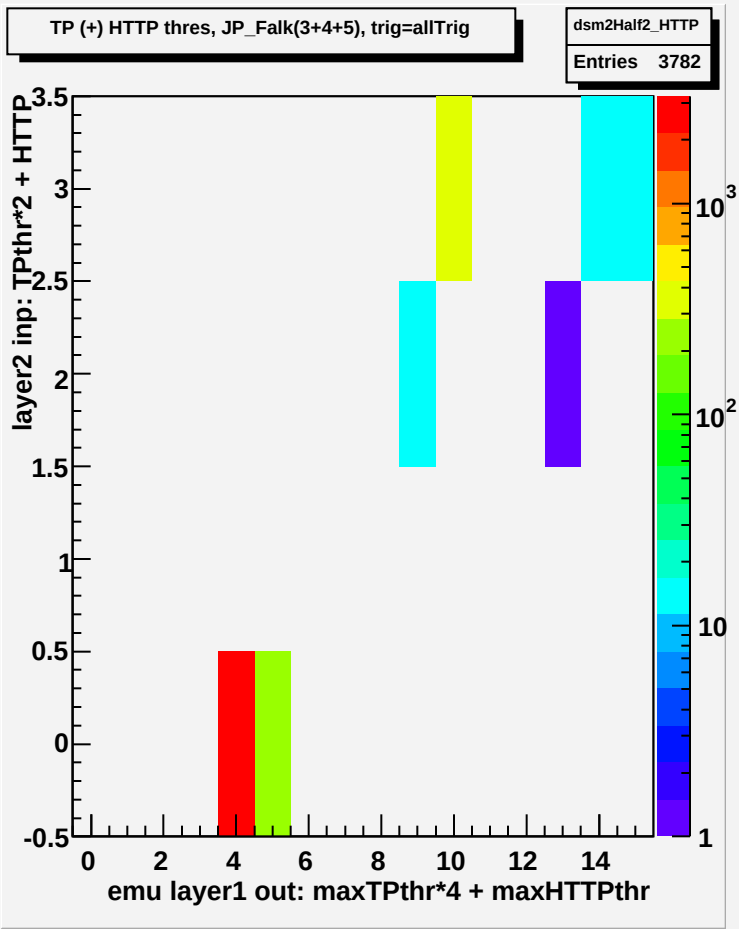

TP input vs. emulated, DSM layer-1, brd=1 ch=2, trig=allTrig
dsm1HJP9_TP
Entries3782
input to level-1
emulated TP from level-0

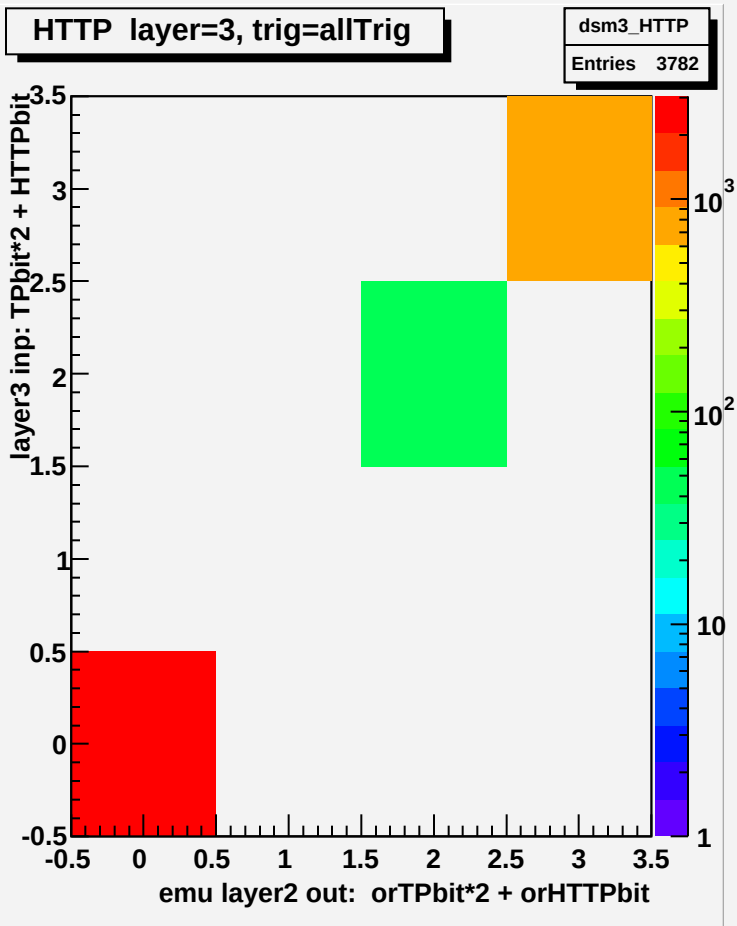

TP input vs. emulated, DSM layer-1, brd=1 ch=3, trig=allTrig
dsm1HJP10_TP
Entries3782
input to level-1
emulated TP from level-0

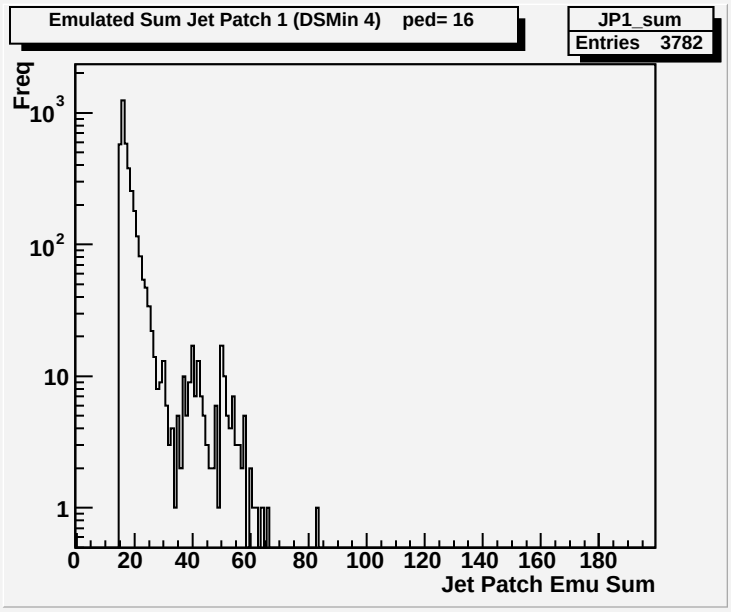

TP input vs. emulated, DSM layer-1, brd=1 ch=4, trig=allTrig
dsm1HJP11_TP
Entries3782
input to level-1
emulated TP from level-0

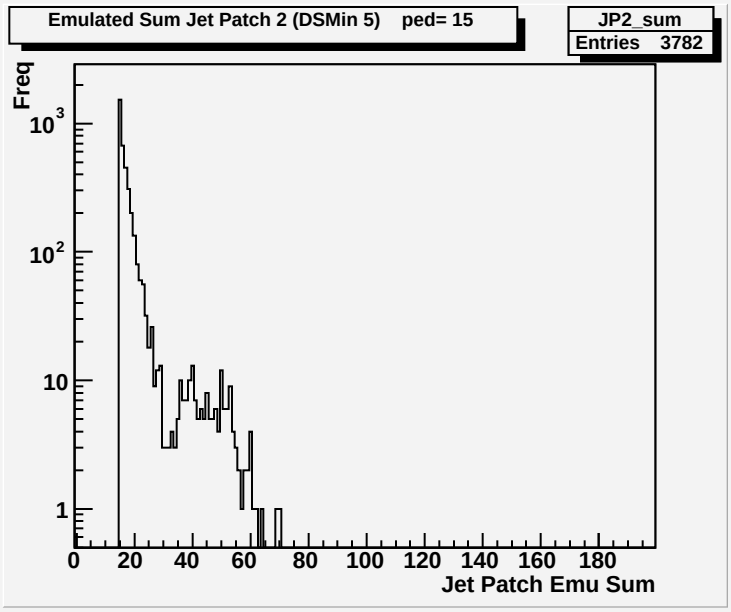

TP input vs. emulated, DSM layer-1, brd=1 ch=5, trig=allTrig
dsm1HJP12_TP
Entries3782
input to level-1
emulated TP from level-0

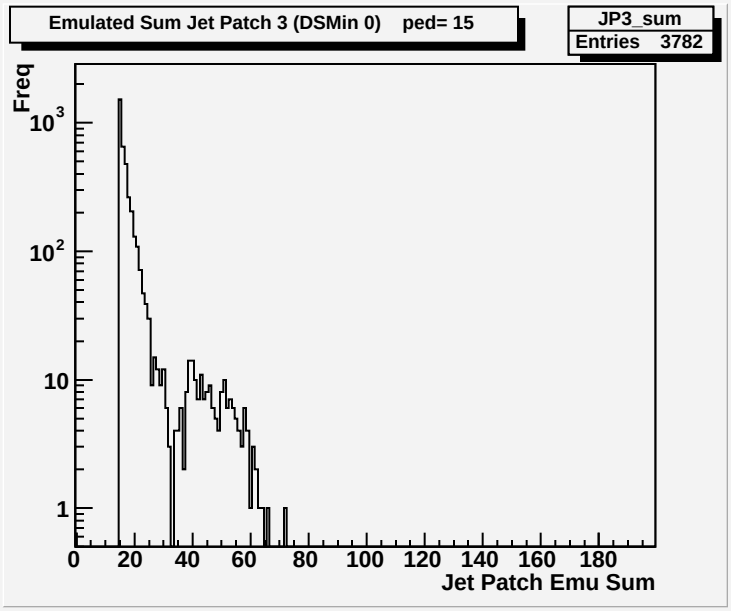

TP (+) HTTP thres, JP_Falk(0+1+2), trig=allTrig
dsm2Half1_HTTP
Entries 3782
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

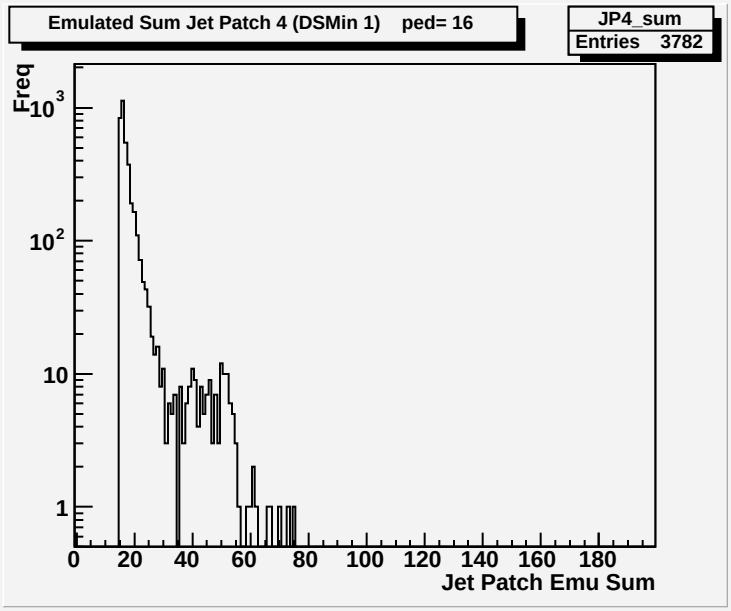

TP (+) HTTP thres, JP_Falk(3+4+5), trig=allTrig
dsm2Half2_HTTP
Entries 3782
layer2 inp: TPthr*2 + HTTP
emu layer1 out: maxTPthr*4 + maxHTTPthr

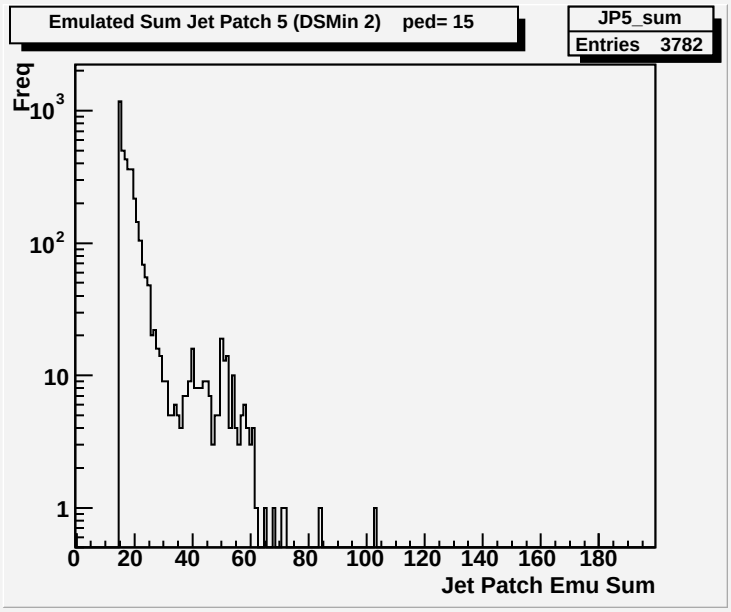

HTTP layer=3, trig=allTrig
dsm3_HTTP
Entries 3782
layer3 inp: TPbit*2 + HTTPbit
emu layer2 out: orTPbit*2 + orHTTPbit

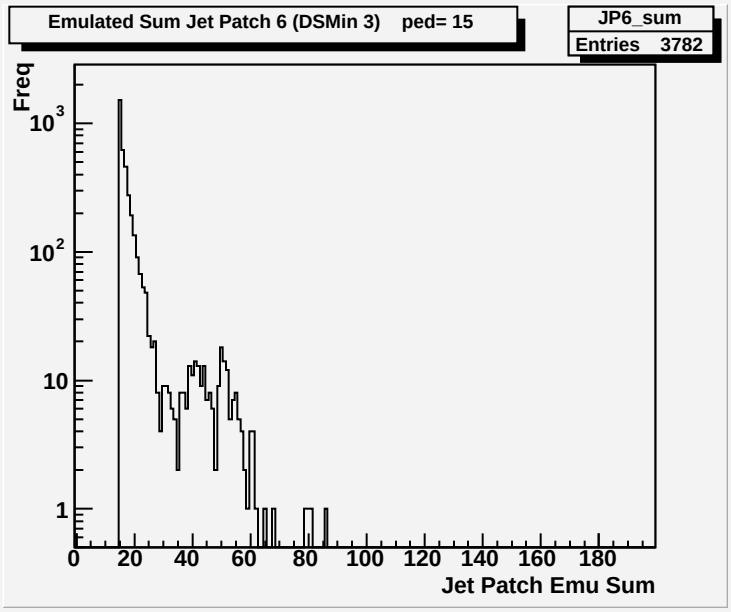

Emulated Sum Jet Patch 1 (DSMin 4) ped= 16
JP1_sum
Entries 3782
Freq
Jet Patch Emu Sum

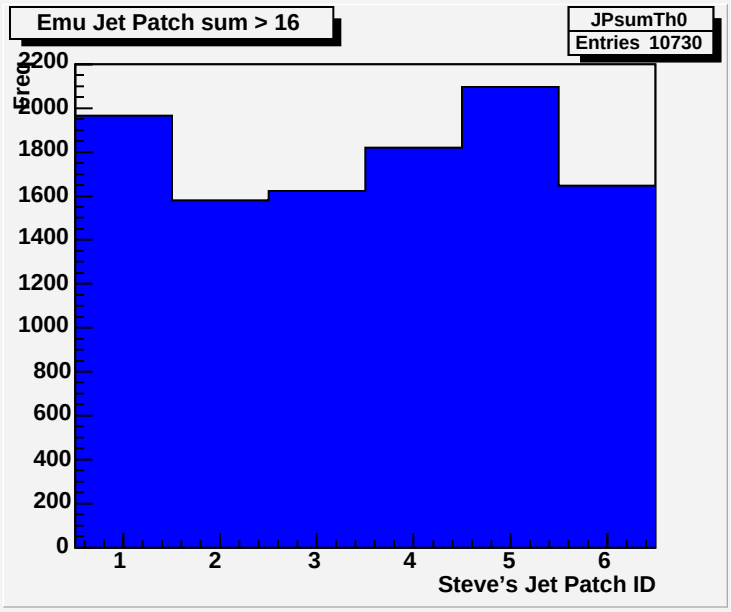

Emulated Sum Jet Patch 2 (DSMin 5) ped= 15
JP2_sum
Entries 3782
Freq
Jet Patch Emu Sum

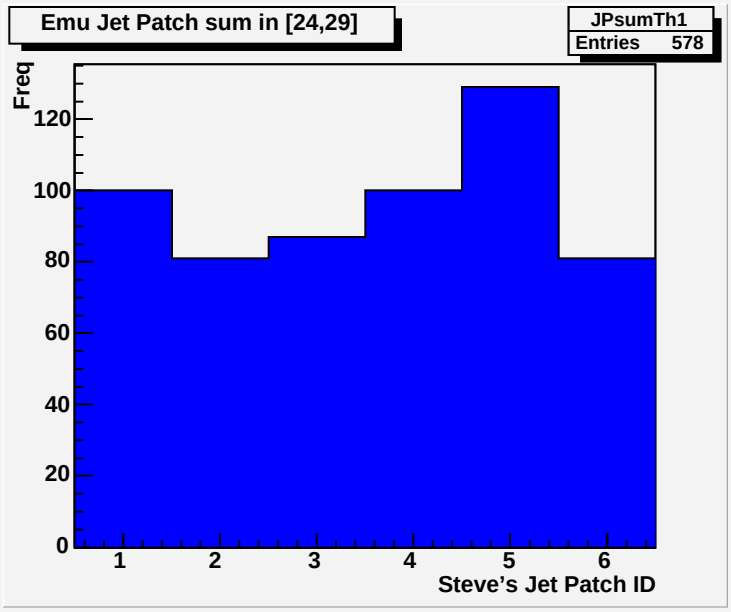

Emulated Sum Jet Patch 3 (DSMin 0) ped= 15
JP3_sum
Entries 3782
Freq
Jet Patch Emu Sum

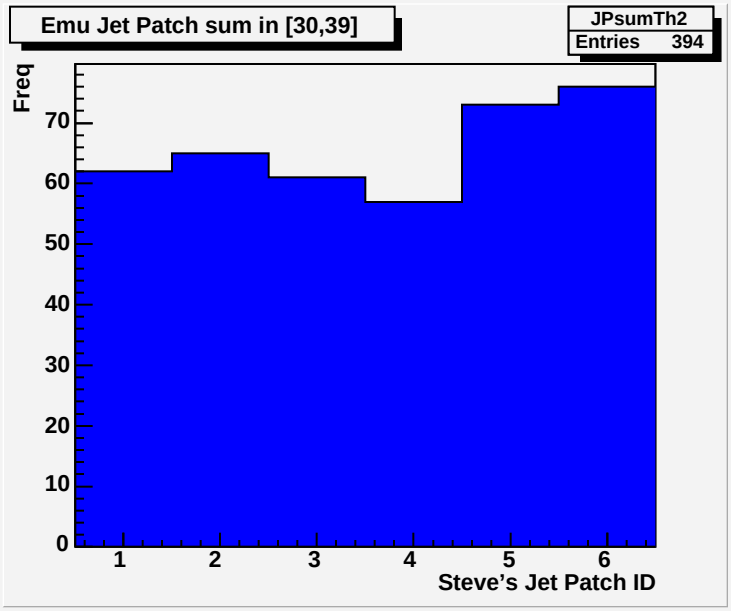

Emulated Sum Jet Patch 4 (DSMin 1) ped= 16
JP4_sum
Entries 3782
Freq
Jet Patch Emu Sum

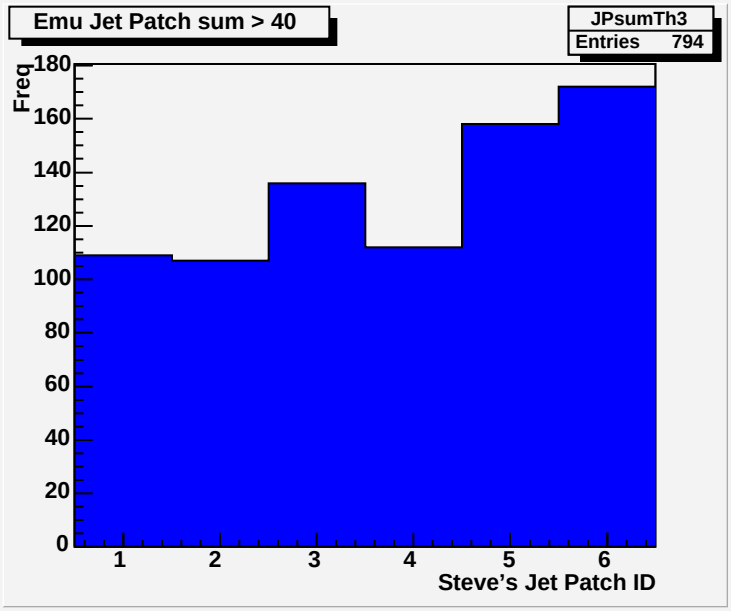

Emulated Sum Jet Patch 5 (DSMin 2) ped= 15
JP5_sum
Entries 3782
Freq
Jet Patch Emu Sum

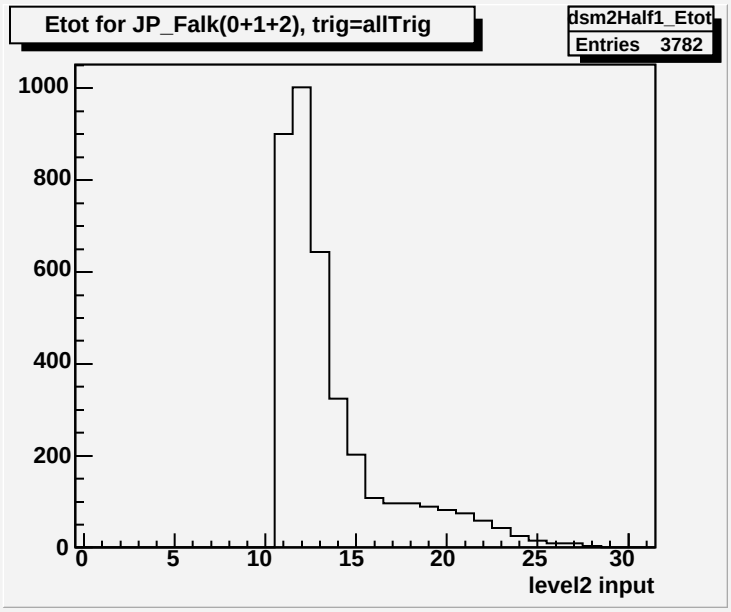

Emulated Sum Jet Patch 6 (DSMin 3) ped= 15
JP6_sum
Entries 3782
Freq
Jet Patch Emu Sum

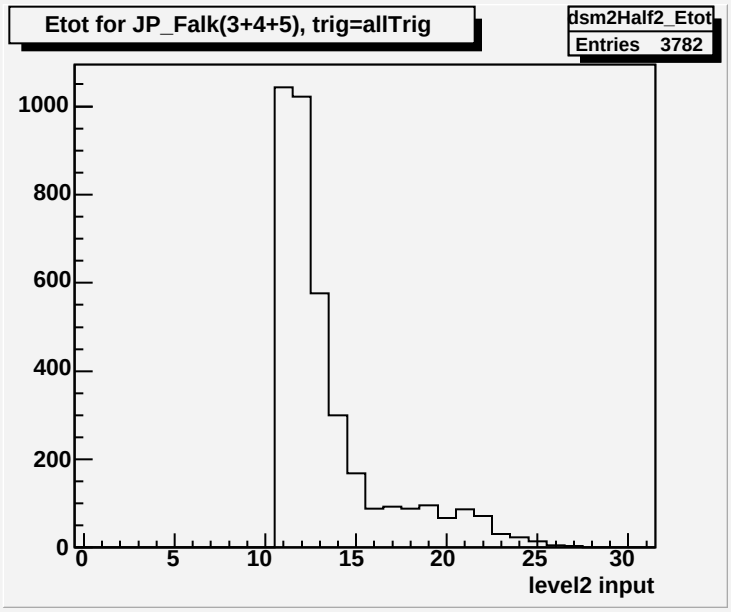

Emu Jet Patch sum > 16
JPsumTh0
Entries 10730
Freq
Steve's Jet Patch ID

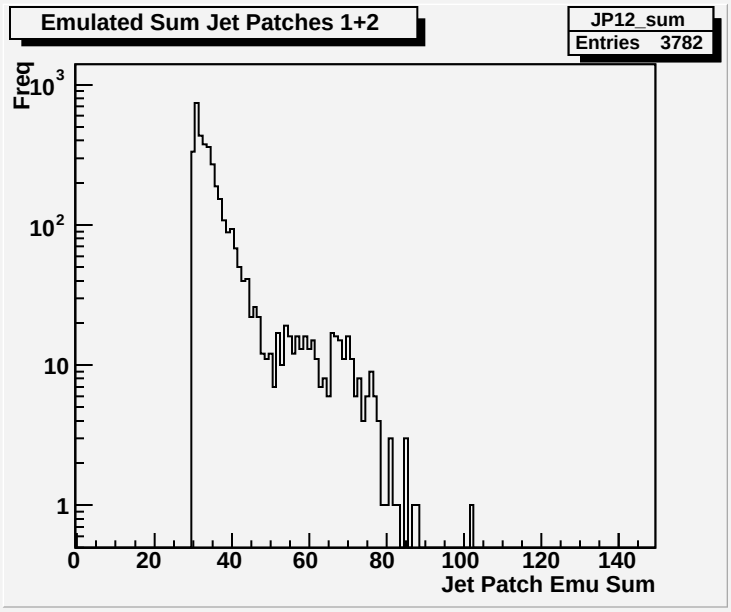

Emu Jet Patch sum in [24,29]
JPsumTh1
Entries 578
Freq
Steve's Jet Patch ID

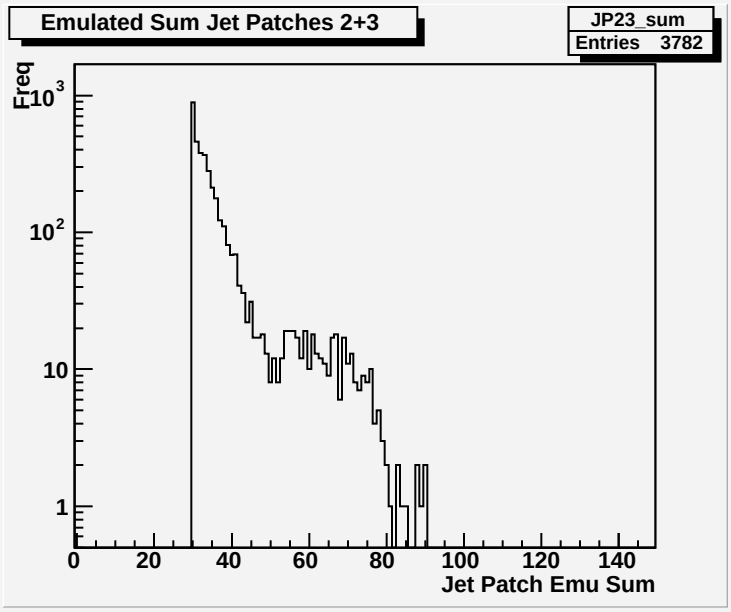

Emu Jet Patch sum in [30,39]
JPsumTh2
Entries 394
Freq
Steve's Jet Patch ID

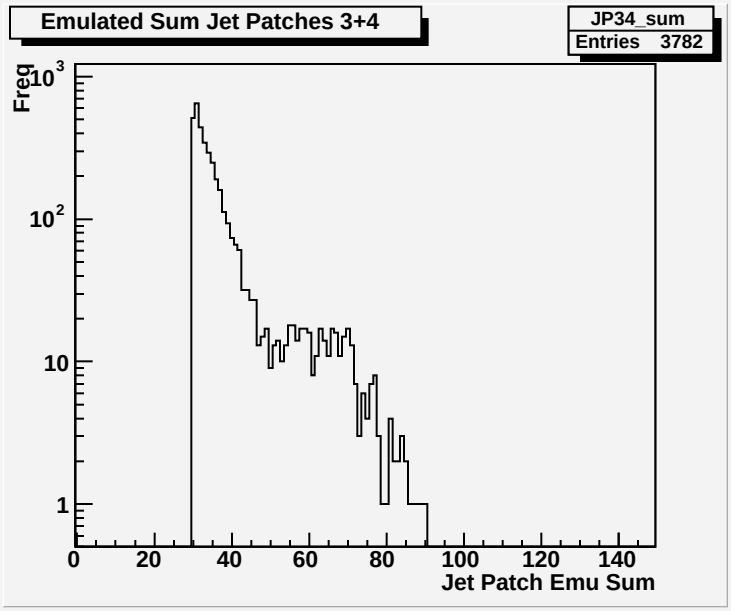

Emu Jet Patch sum > 40
JPsumTh3
Entries 794
Freq
Steve's Jet Patch ID

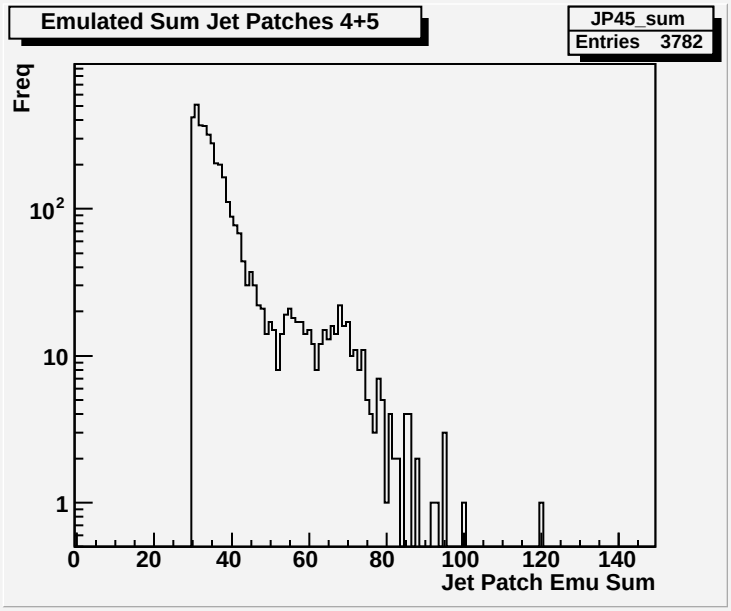

Etot for JP_Falk(0+1+2), trig=allTrig
dsm2Half1_Etot
Entries 3782
level2 input

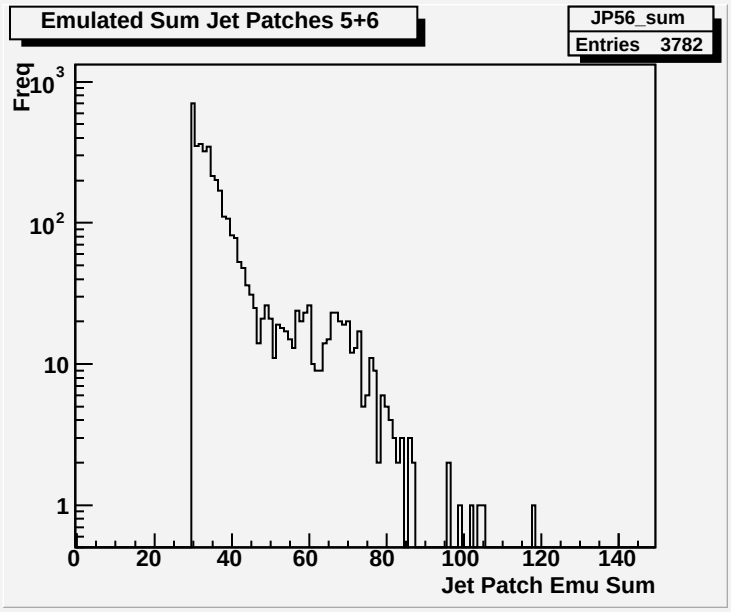

Etot for JP_Falk(3+4+5), trig=allTrig
dsm2Half2_Etot
Entries 3782
level2 input

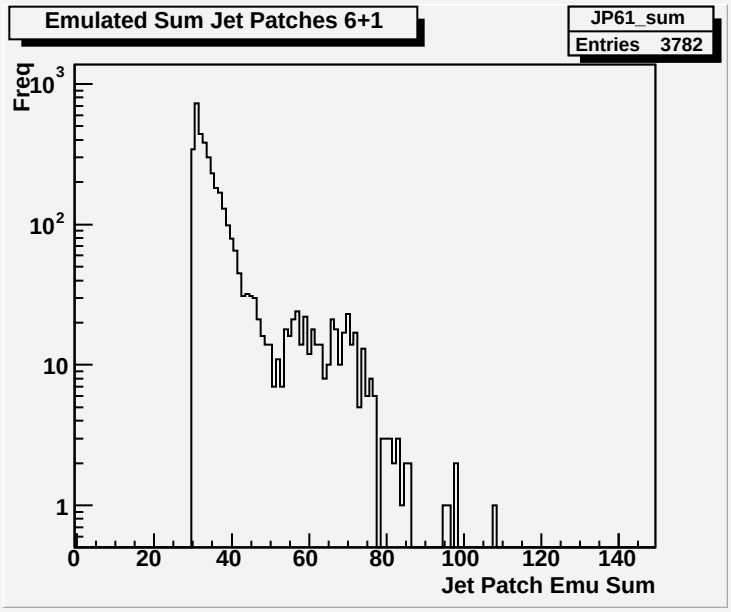

Emulated Sum Jet Patches 1+2
JP12_sum
Entries 3782
Freq
Jet Patch Emu Sum

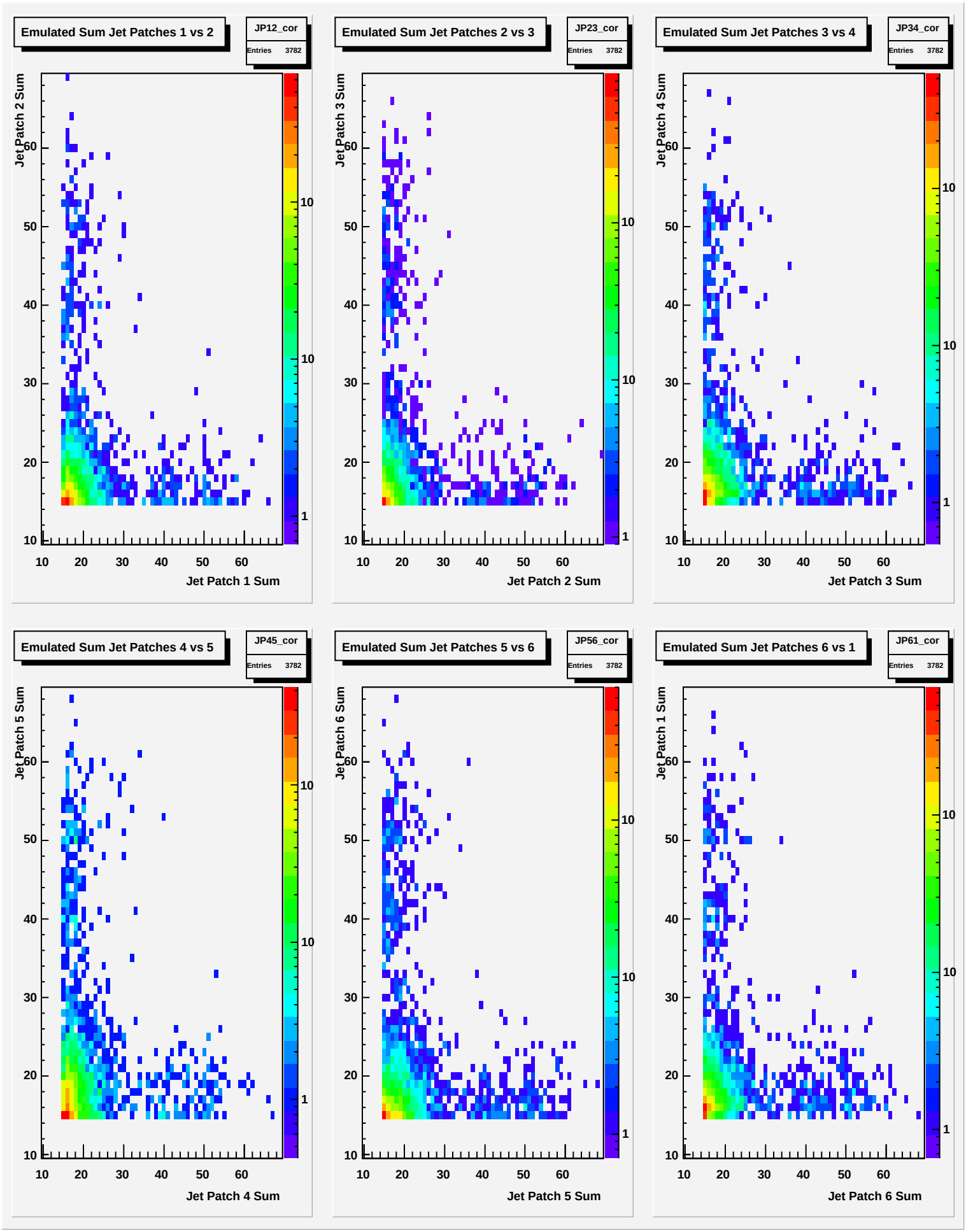

Emulated Sum Jet Patches 2+3
JP23_sum
Entries 3782
Freq
Jet Patch Emu Sum

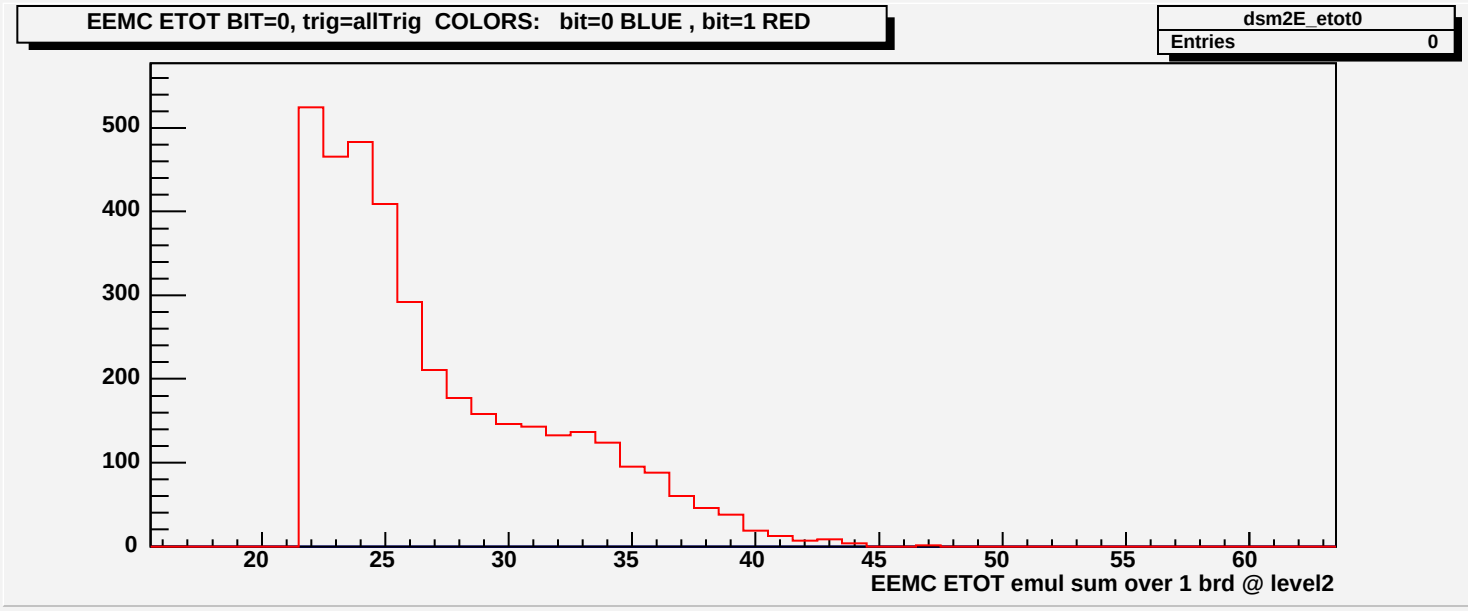

Emulated Sum Jet Patches 3+4
JP34_sum
Entries 3782
Freq
Jet Patch Emu Sum

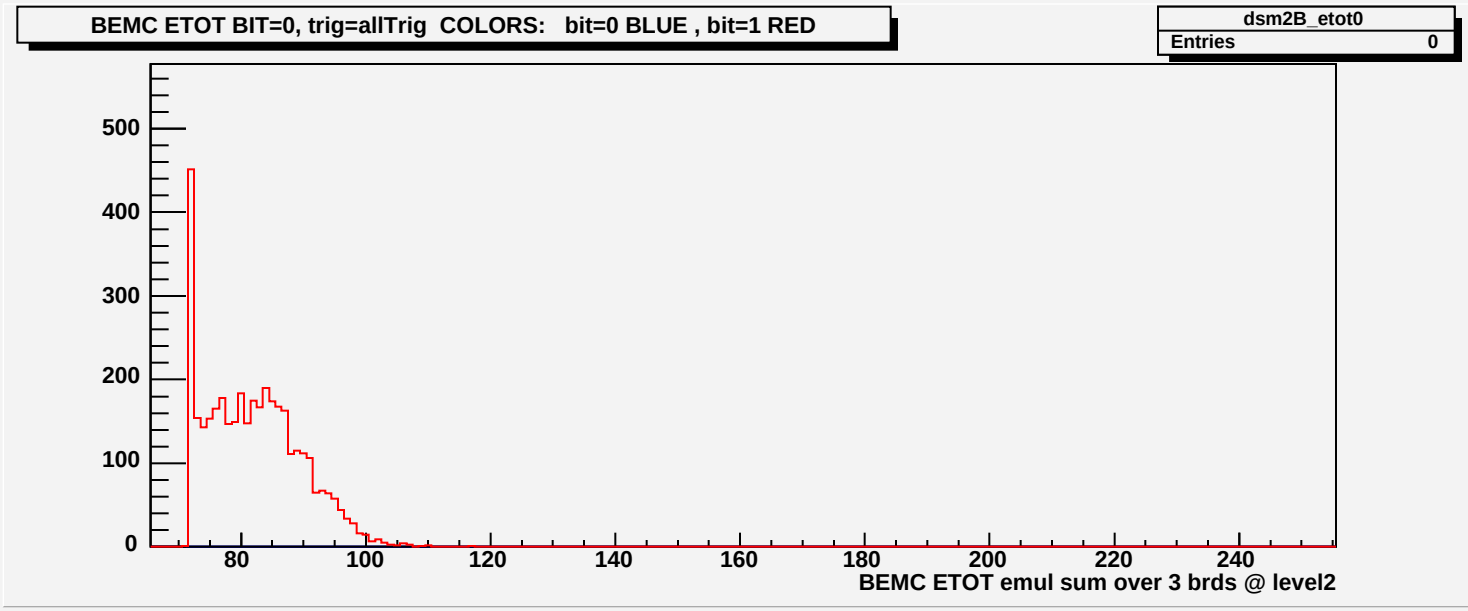

Emulated Sum Jet Patches 4+5
JP45_sum
Entries 3782
Freq
Jet Patch Emu Sum

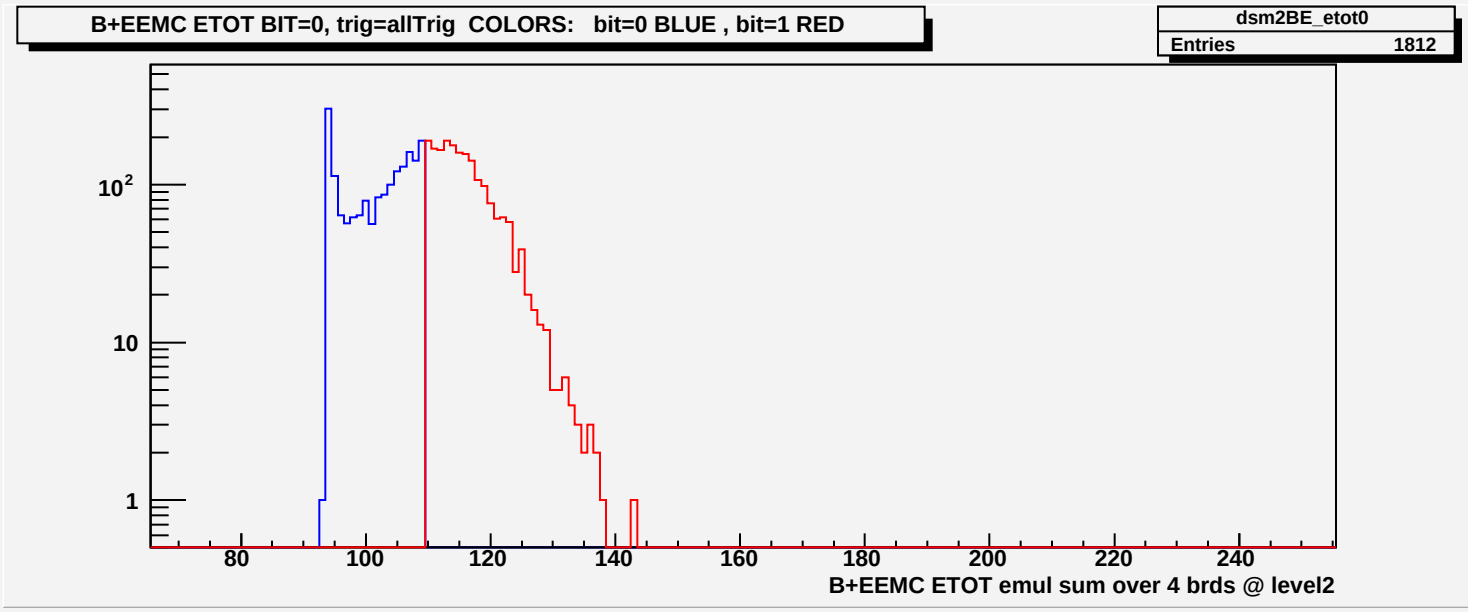

Emulated Sum Jet Patches 5+6
JP56_sum
Entries 3782
Freq
Jet Patch Emu Sum

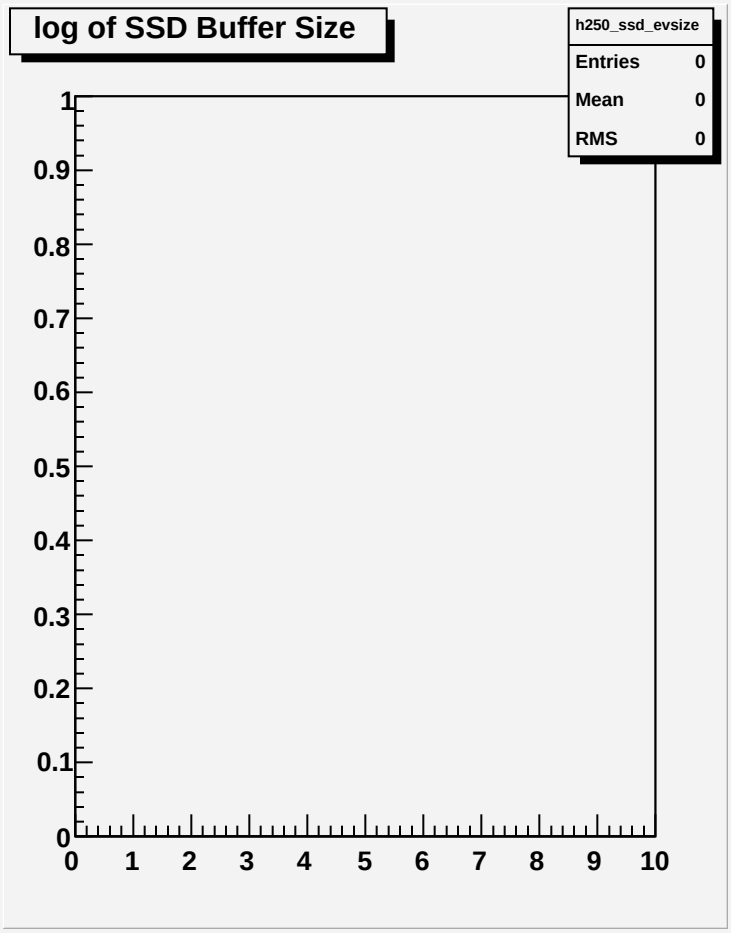

Emulated Sum Jet Patches 6+1
JP61_sum
Entries 3782
Freq
Jet Patch Emu Sum

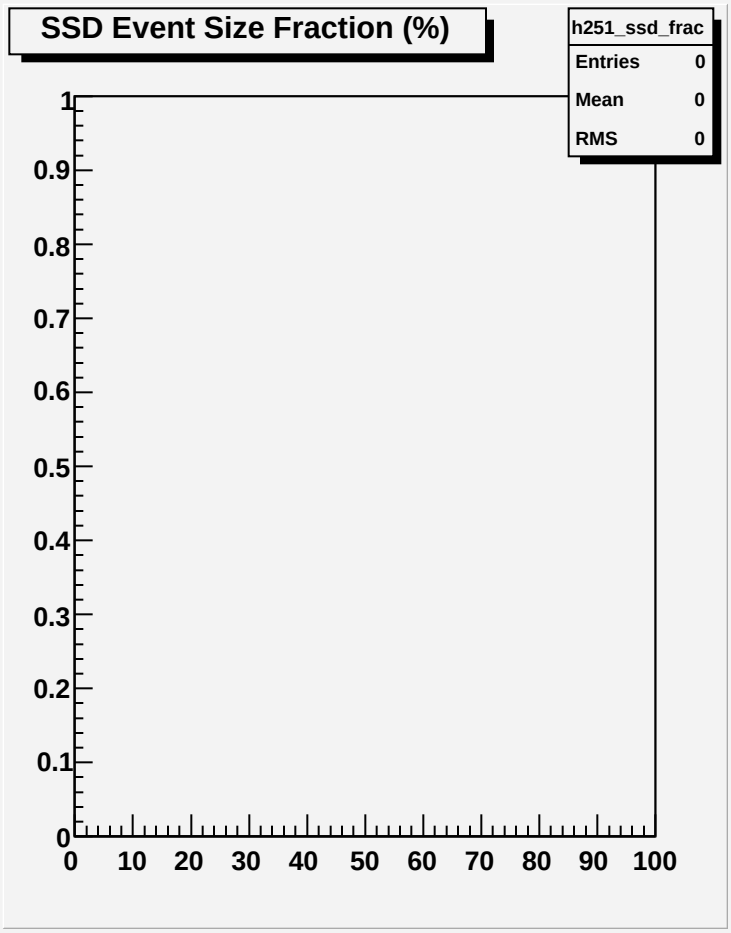

Emulated Sum Jet Patches 1 vs 2
JP12_cor
Entries 3782
Jet Patch 2 Sum
Jet Patch 1 Sum
Emulated Sum Jet Patches 2 vs 3
JP23_cor
Entries 3782
Jet Patch 3 Sum
Jet Patch 2 Sum
Emulated Sum Jet Patches 3 vs 4
JP34_cor
Entries 3782
Jet Patch 4 Sum
Jet Patch 3 Sum
Emulated Sum Jet Patches 4 vs 5
JP45_cor
Entries 3782
Jet Patch 5 Sum
Jet Patch 4 Sum
Emulated Sum Jet Patches 5 vs 6
JP56_cor
Entries 3782
Jet Patch 6 Sum
Jet Patch 5 Sum
Emulated Sum Jet Patches 6 vs 1
JP61_cor
Entries 3782
Jet Patch 1 Sum
Jet Patch 6 Sum

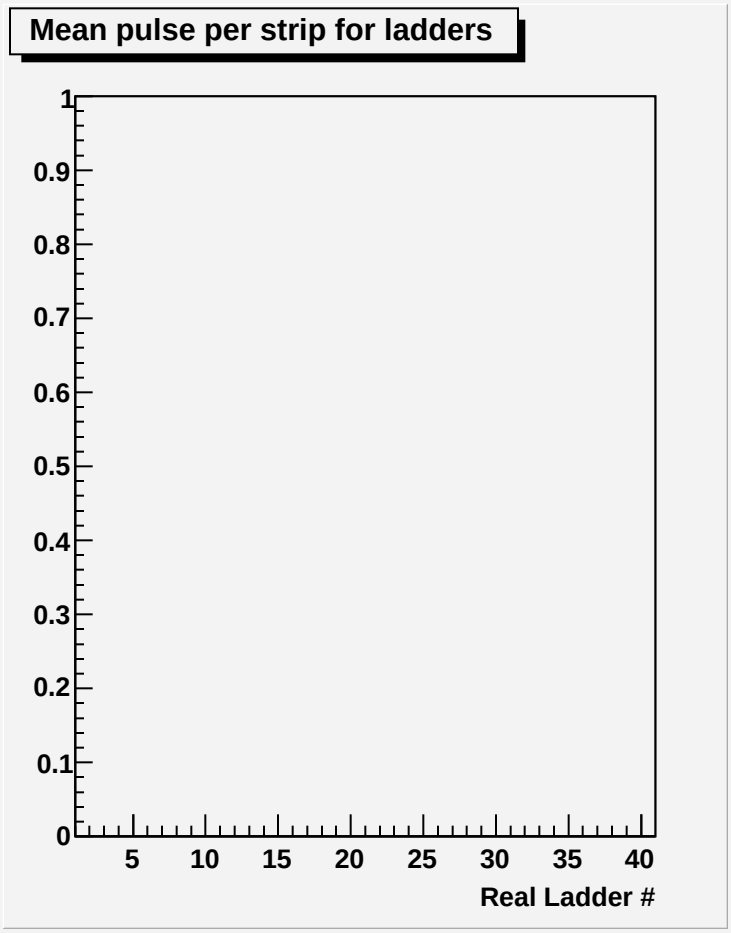

EEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2E_etot0
Entries 0
500
400
300
200
100
0
20
25
30
35
40
45
50
55
60
EEMC ETOT emul sum over 1 brd @ level2

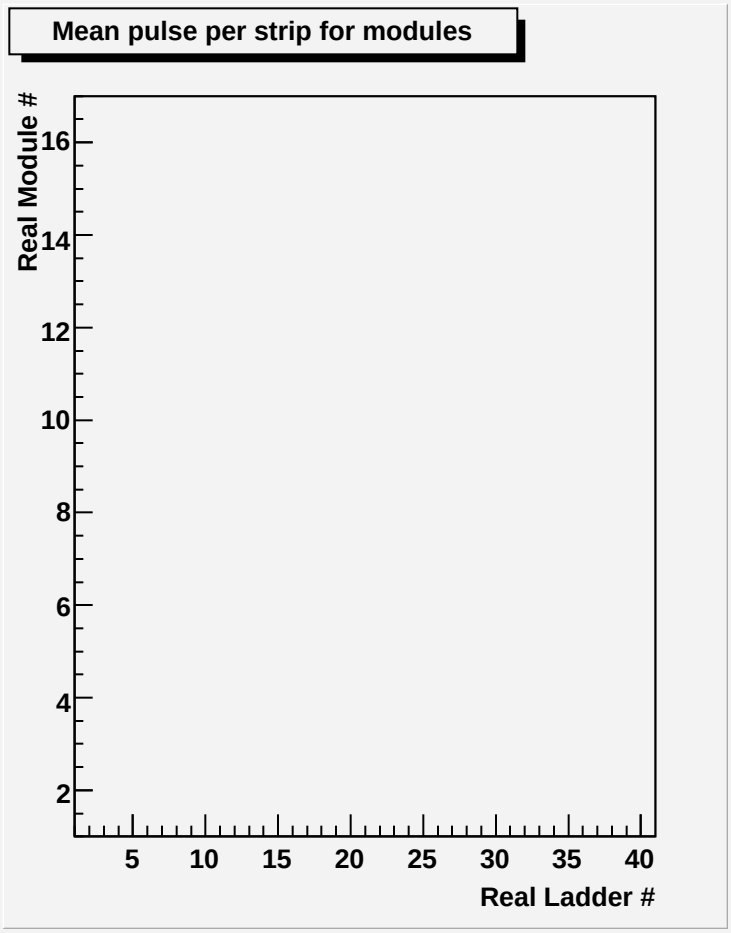

BEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2B_etot0
Entries 0
500
400
300
200
100
0
80
100
120
140
160
180
200
220
240
BEMC ETOT emul sum over 3 brds @ level2

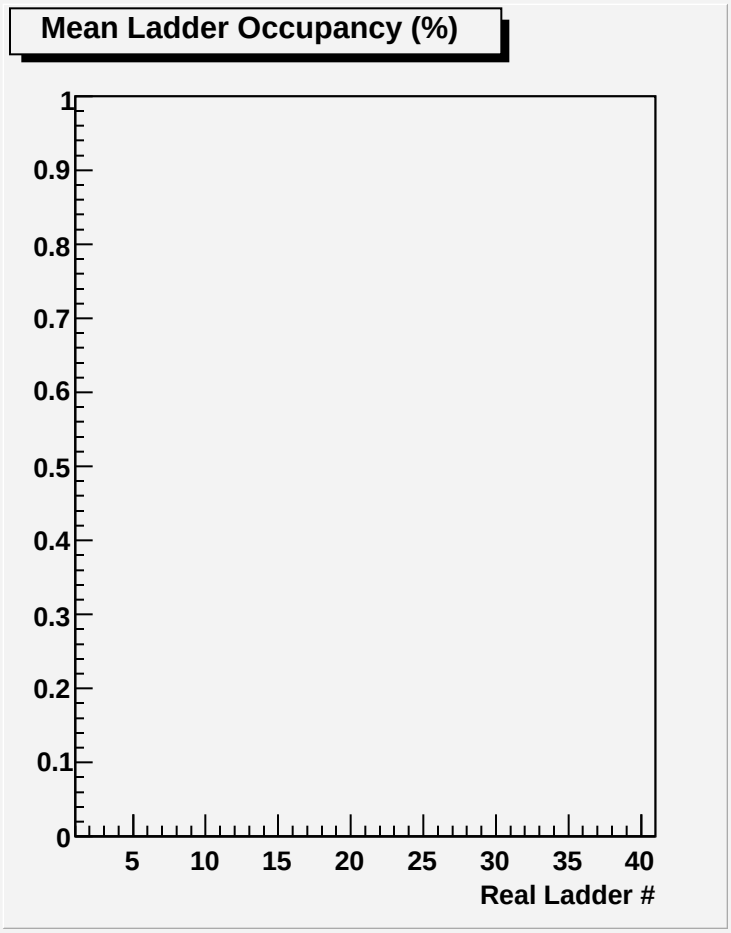

B+EEMC ETOT BIT=0, trig=allTrig COLORS: bit=0 BLUE , bit=1 RED
dsm2BE_etot0
Entries 1812
10^2
10
1
80
100
120
140
160
180
200
220
240
B+EEMC ETOT emul sum over 4 brds @ level2

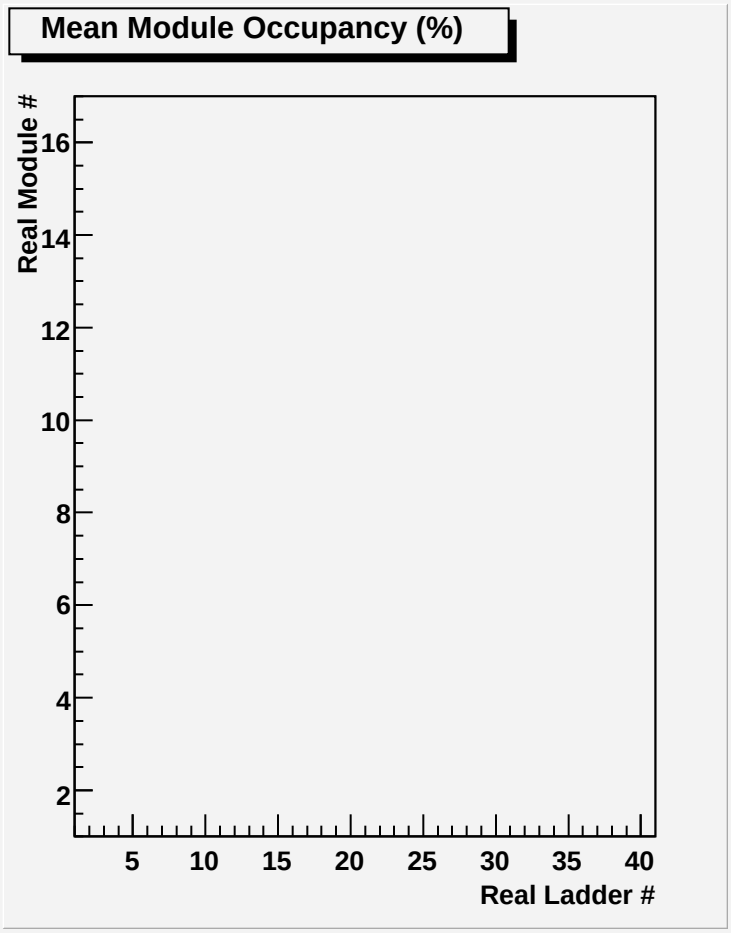

log of SSD Buffer Size
h250_ssd_evsize
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 1 2 3 4 5 6 7 8 9 10

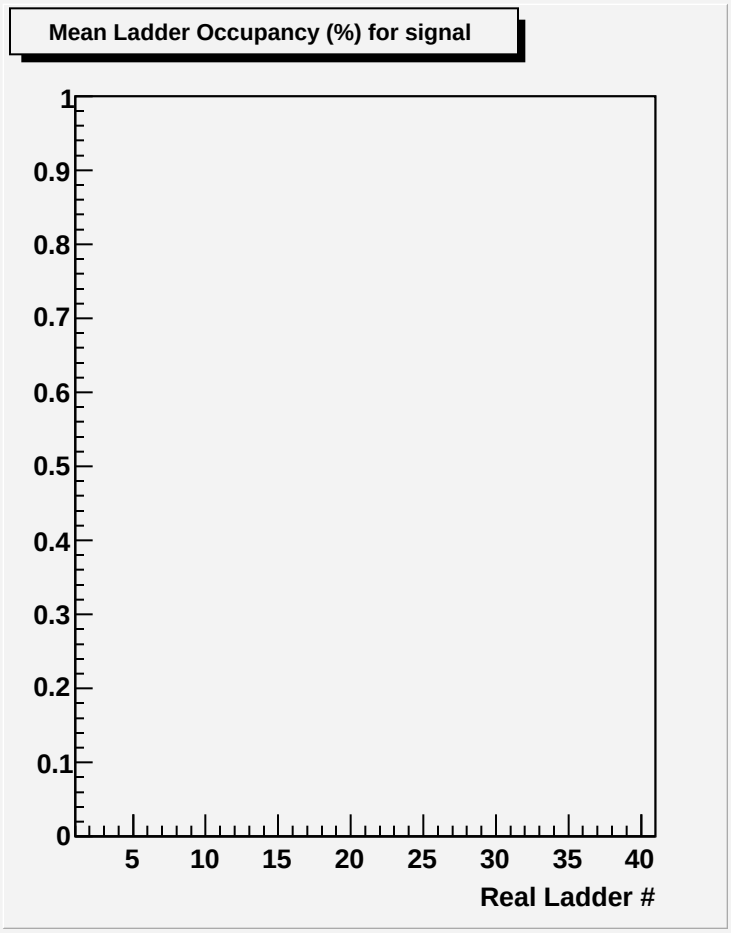

SSD Event Size Fraction (%)
h251_ssd_frac
Entries 0
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
0 10 20 30 40 50 60 70 80 90 100

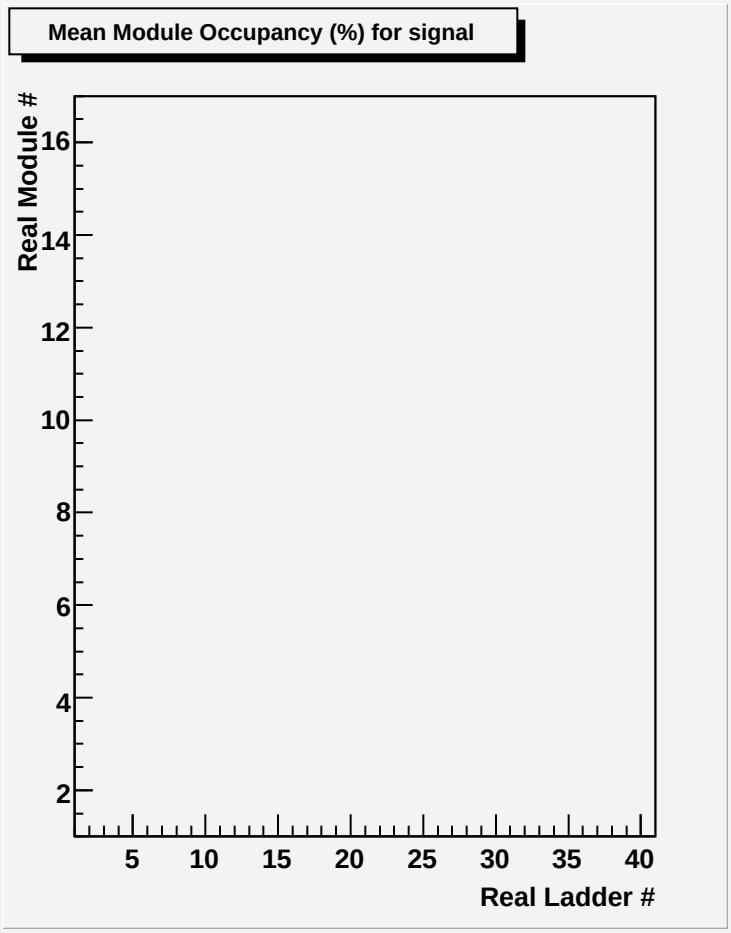

Mean pulse per strip for ladders
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5 10 15 20 25 30 35 40
Real Ladder #

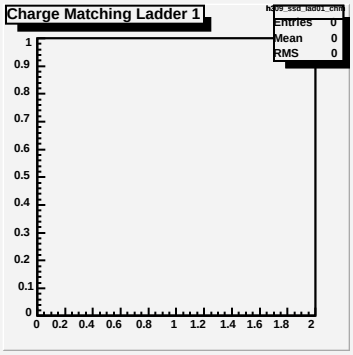

Mean pulse per strip for modules
Real Module #
16
14
12
10
8
6
4
2
5 10 15 20 25 30 35 40
Real Ladder #

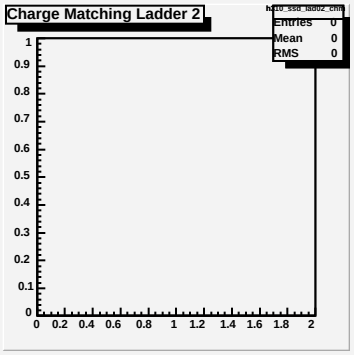

Mean Ladder Occupancy (%)
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
10
15
20
25
30
35
40
Real Ladder #

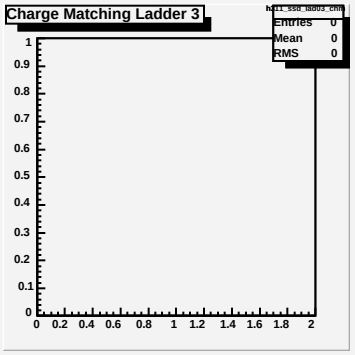

Mean Module Occupancy (%)
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #

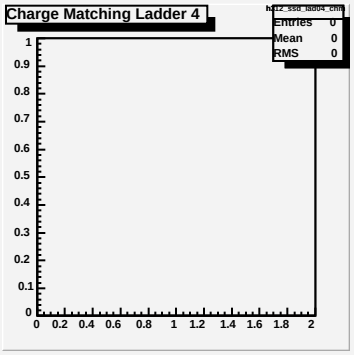

Mean Ladder Occupancy (%) for signal
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
5
10
15
20
25
30
35
40
Real Ladder #

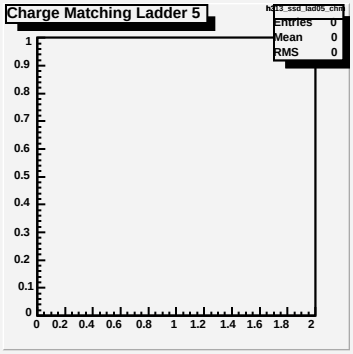

Mean Module Occupancy (%) for signal
Real Module #
16
14
12
10
8
6
4
2
5
10
15
20
25
30
35
40
Real Ladder #

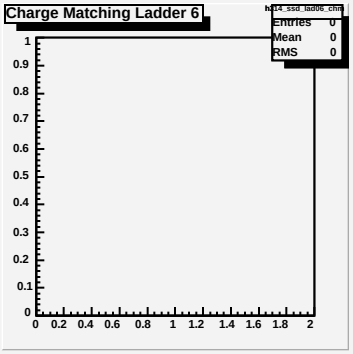

Charge Matching Ladder 1
h209_ssd_lad01_chn
Entries 0
Mean 0
RMS 0

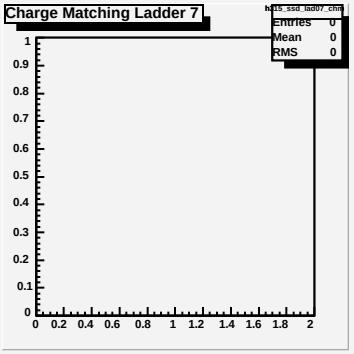

Charge Matching Ladder 2
h210_ssd_lad02_chn
Entries 0
Mean 0
RMS 0

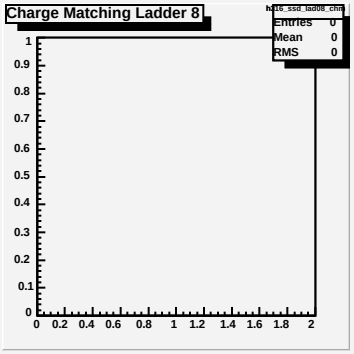

Charge Matching Ladder 3
h211_ssd_lad03_chn
Entries 0
Mean 0
RMS 0

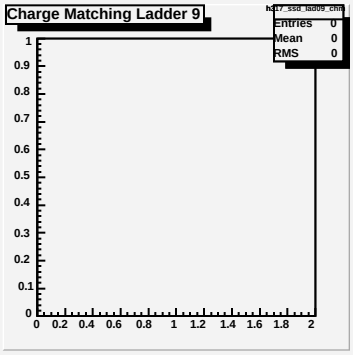

Charge Matching Ladder 4
h212_ssd_lad04_chn
Entries 0
Mean 0
RMS 0

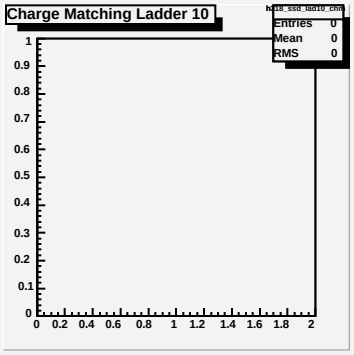

Charge Matching Ladder 5
h213_ssd_lad05_chn
Entries 0
Mean 0
RMS 0

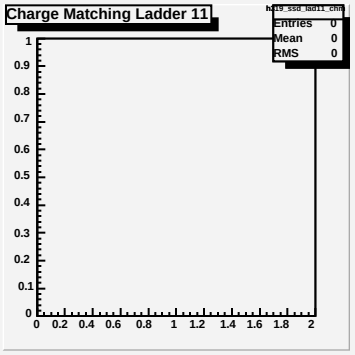

Charge Matching Ladder 6
h214_ssd_lad06_chn
Entries 0
Mean 0
RMS 0

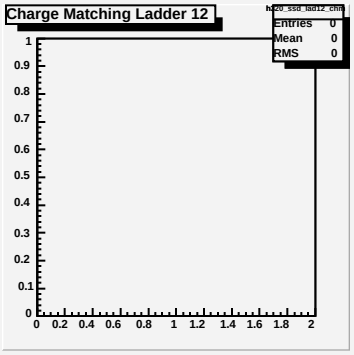

Charge Matching Ladder 7
h215_ssd_lad07_chn
Entries 0
Mean 0
RMS 0

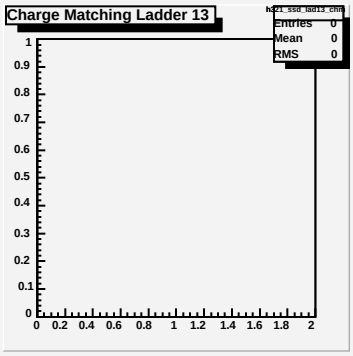

Charge Matching Ladder 8
h216_ssd_lad08_chn
Entries 0
Mean 0
RMS 0

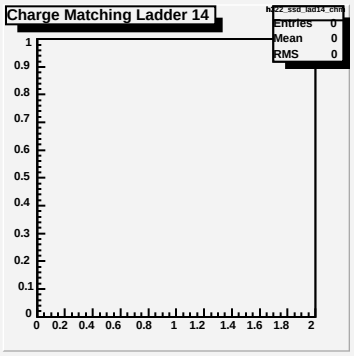

Charge Matching Ladder 9
h217_ssd_lad09_chn
Entries 0
Mean 0
RMS 0

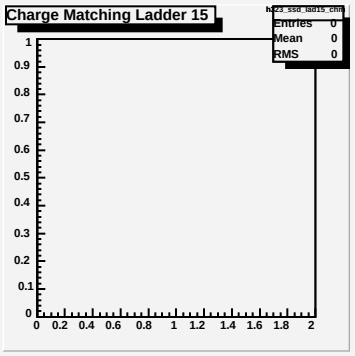

Charge Matching Ladder 10
h218_ssd_lad10_chn
Entries 0
Mean 0
RMS 0

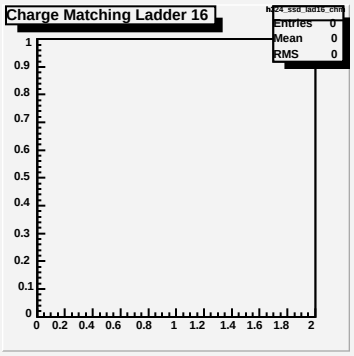

Charge Matching Ladder 11
h219_ssd_lad11_chn
Entries 0
Mean 0
RMS 0

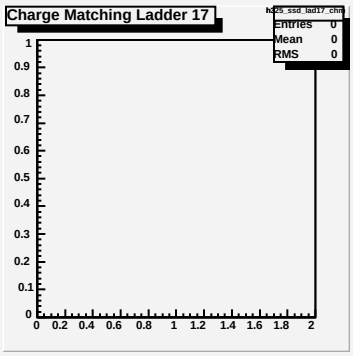

Charge Matching Ladder 12
h220_ssd_lad12_chn
Entries 0
Mean 0
RMS 0

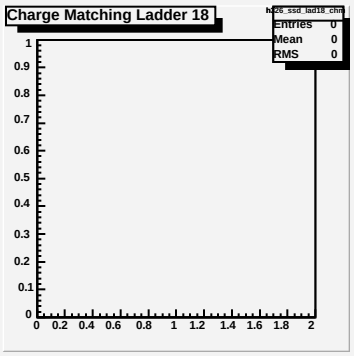

Charge Matching Ladder 13
h221_ssd_lad13_chn
Entries 0
Mean 0
RMS 0

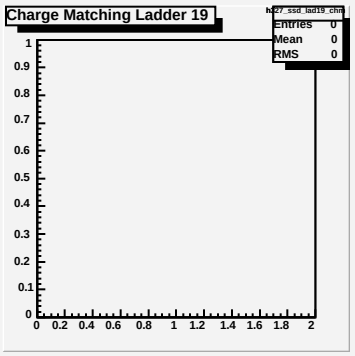

Charge Matching Ladder 14
h222_ssd_lad14_chn
Entries 0
Mean 0
RMS 0

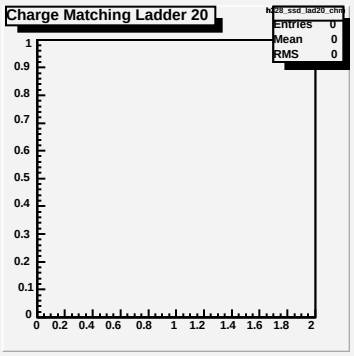

Charge Matching Ladder 15
h223_ssd_lad15_chn
Entries 0
Mean 0
RMS 0

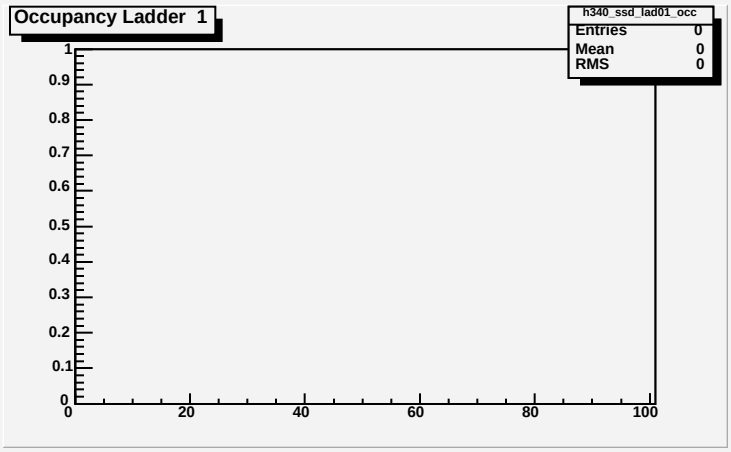

Charge Matching Ladder 16
h224_ssd_lad16_chn
Entries 0
Mean 0
RMS 0

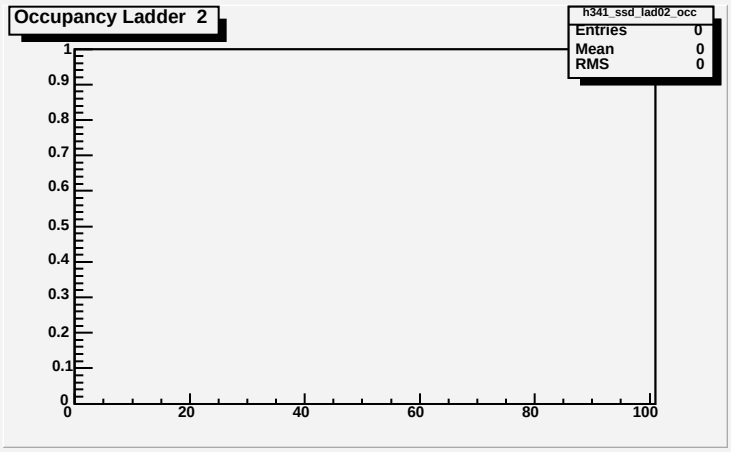

Charge Matching Ladder 17
h225_ssd_lad17_chn
Entries 0
Mean 0
RMS 0


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

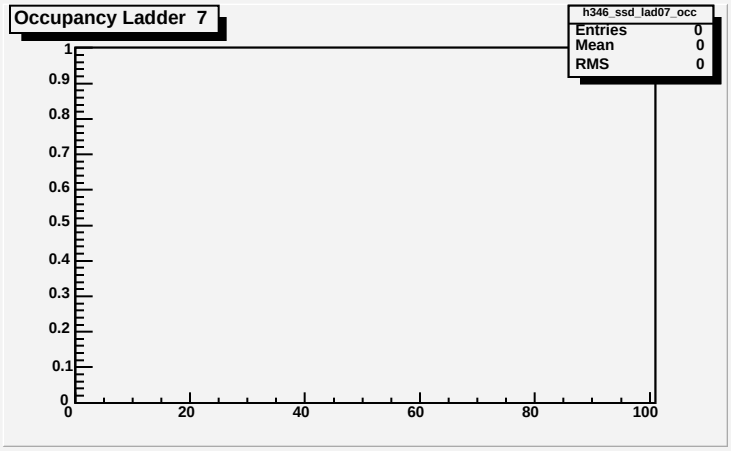

Occupancy Ladder 2
h341_ssd_lad02_occ
Entries 0
Mean 0
RMS 0

Occupancy Ladder 3
h342_ssd_lad03_occ
Entries 0
Mean 0
RMS 0

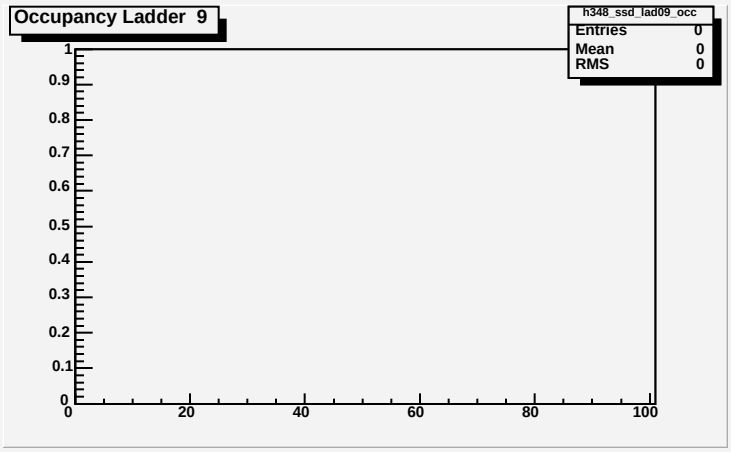
Occupancy Ladder 4
h343_ssd_lad04_occ
Entries 0
Mean 0
RMS 0

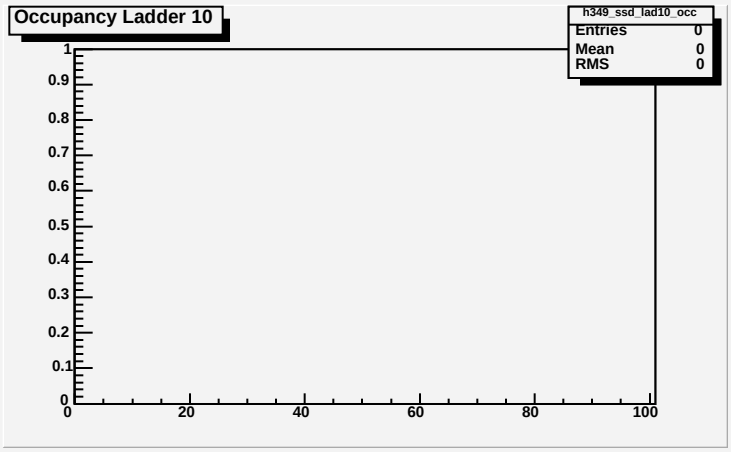
Occupancy Ladder 5
h344_ssd_lad05_occ
Entries 0
Mean 0
RMS 0

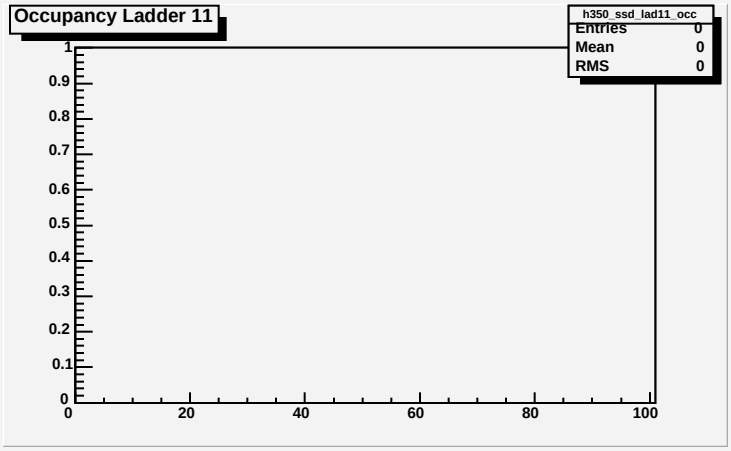
Occupancy Ladder 6
h345_ssd_lad06_occ
Entries 0
Mean 0
RMS 0


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

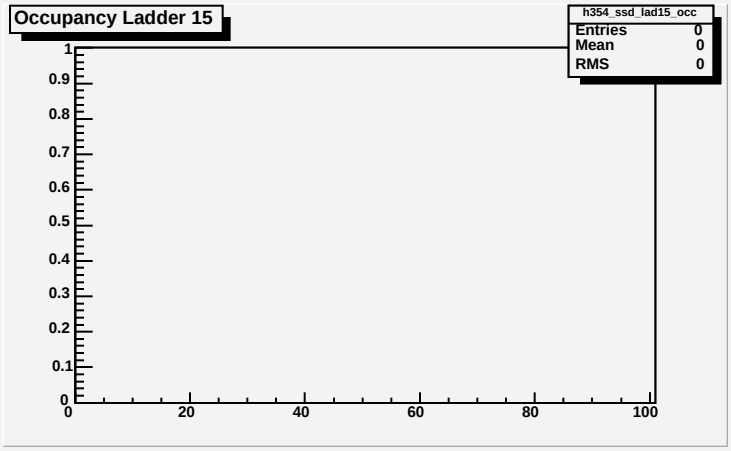

Occupancy Ladder 10
h349_ssd_lad10_occ
Entries 0
Mean 0
RMS 0

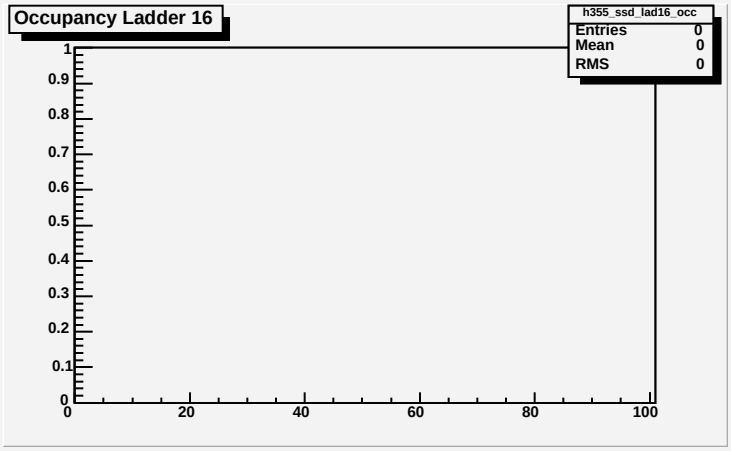

Occupancy Ladder 11
h350_ssd_lad11_occ
Entries 0
Mean 0
RMS 0

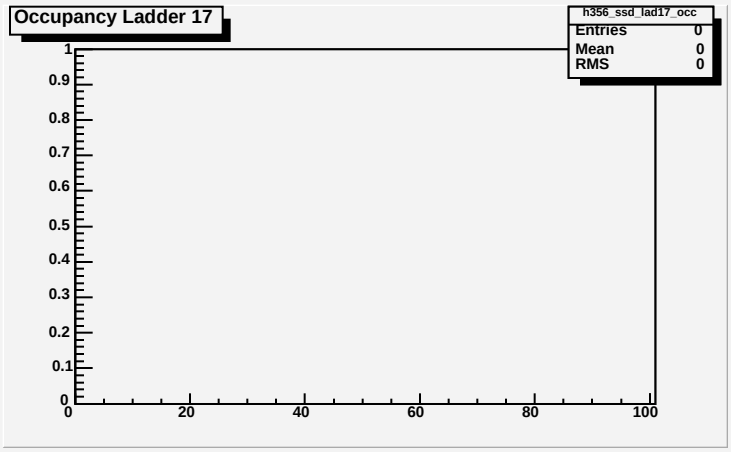
Occupancy Ladder 12
h351_ssd_lad12_occ
Entries 0
Mean 0
RMS 0

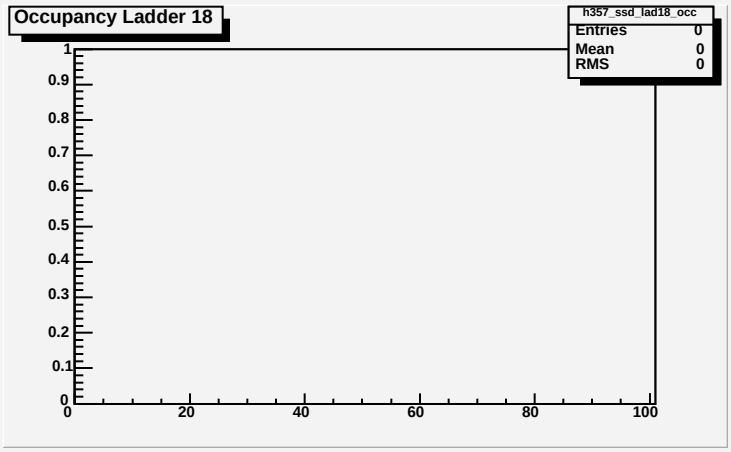
Occupancy Ladder 13
h352_ssd_lad13_occ
Entries 0
Mean 0
RMS 0

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

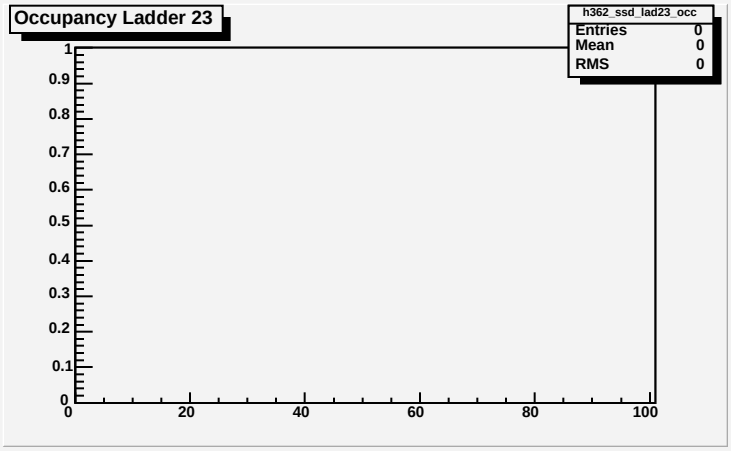

Occupancy Ladder 18
h357_ssd_lad18_occ
Entries 0
Mean 0
RMS 0

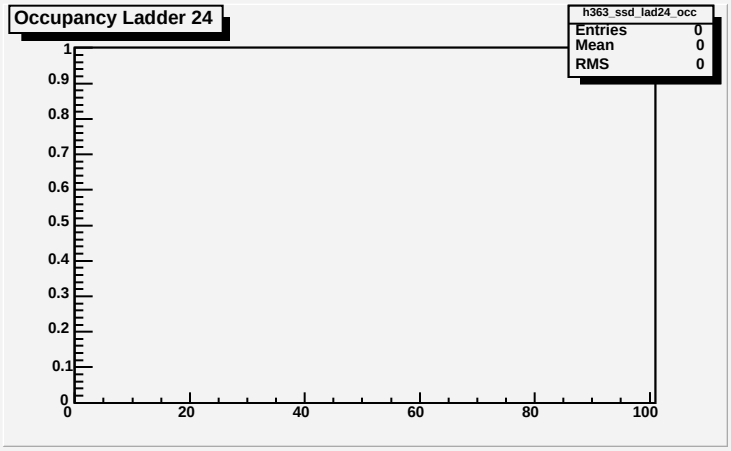
Occupancy Ladder 19
h358_ssd_lad19_occ
Entries 0
Mean 0
RMS 0

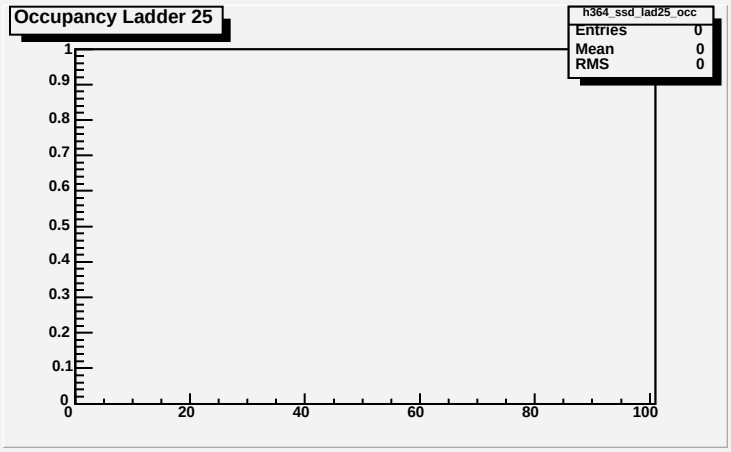
Occupancy Ladder 20
h359_ssd_lad20_occ
Entries 0
Mean 0
RMS 0

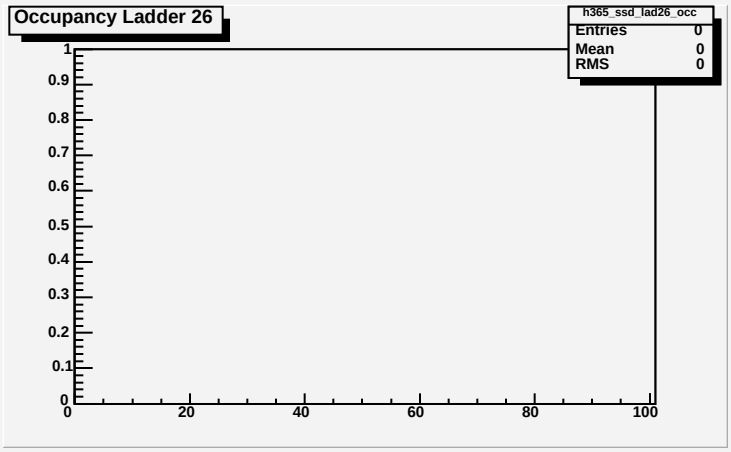
Occupancy Ladder 21
h360_ssd_lad21_occ
Entries 0
Mean 0
RMS 0

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

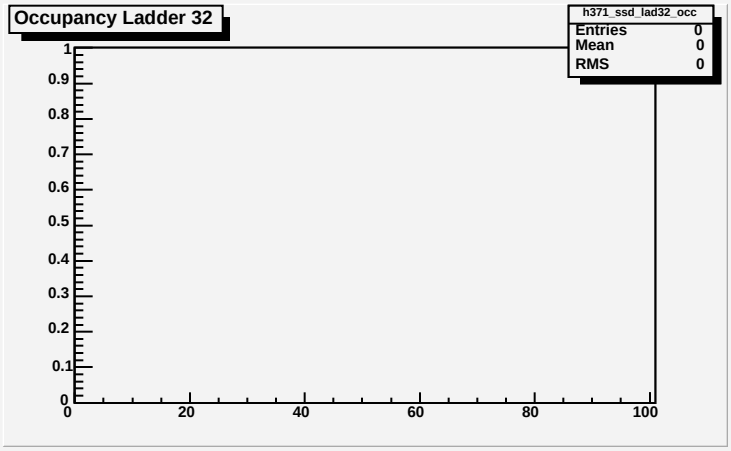
Occupancy Ladder 27
h366_ssd_lad27_occ
Entries 0
Mean 0
RMS 0

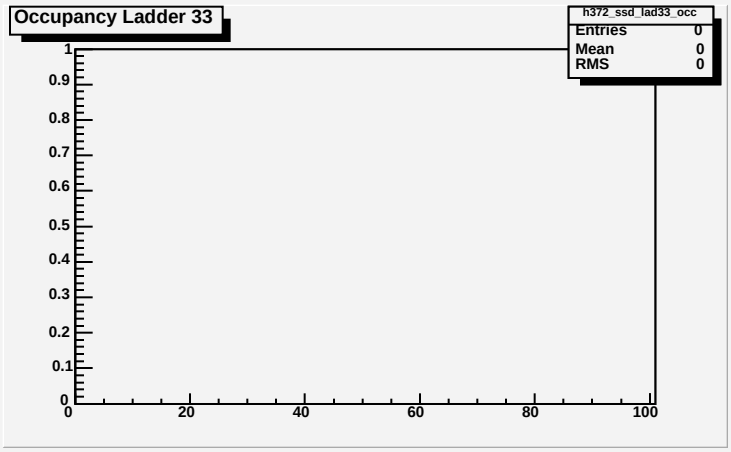
Occupancy Ladder 28
h367_ssd_lad28_occ
Entries 0
Mean 0
RMS 0

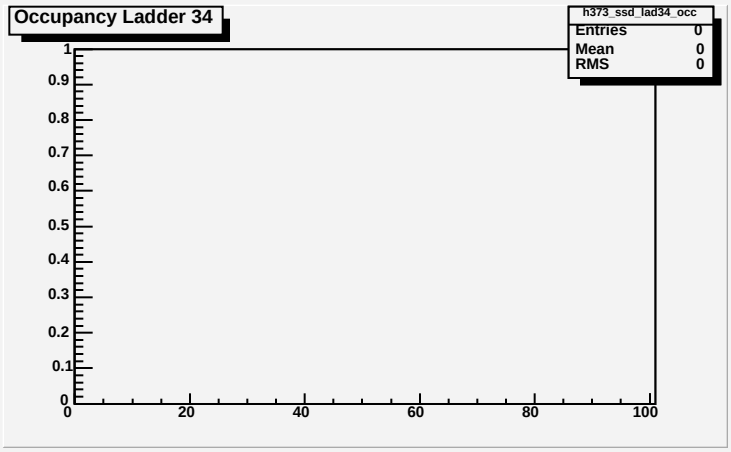
Occupancy Ladder 29
h368_ssd_lad29_occ
Entries 0
Mean 0
RMS 0

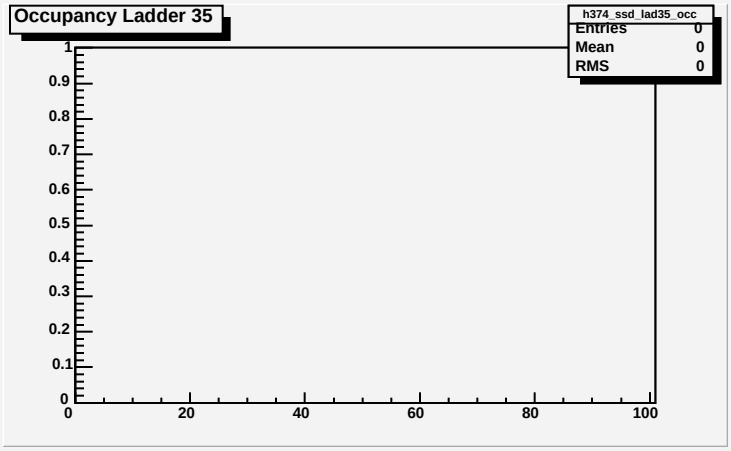
Occupancy Ladder 30
h369_ssd_lad30_occ
Entries 0
Mean 0
RMS 0

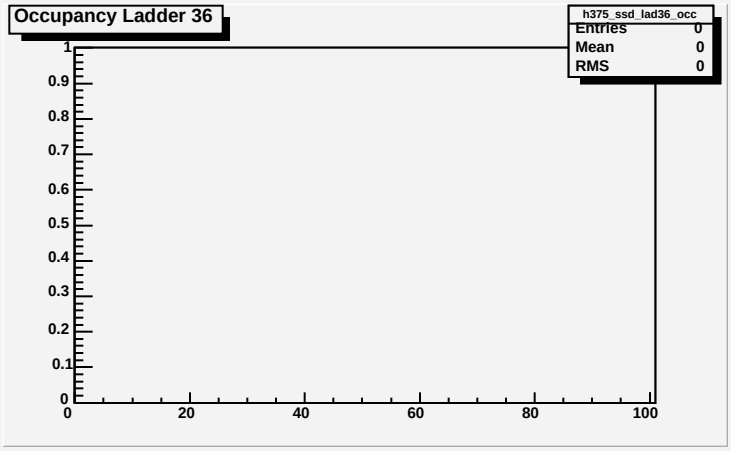
Occupancy Ladder 31
h370_ssd_lad31_occ
Entries 0
Mean 0
RMS 0

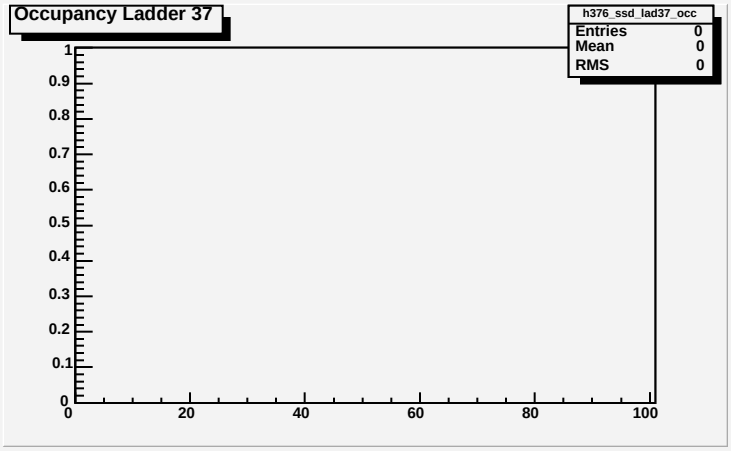

Occupancy Ladder 32
h371_ssd_lad32_occ
Entries 0
Mean 0
RMS 0


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

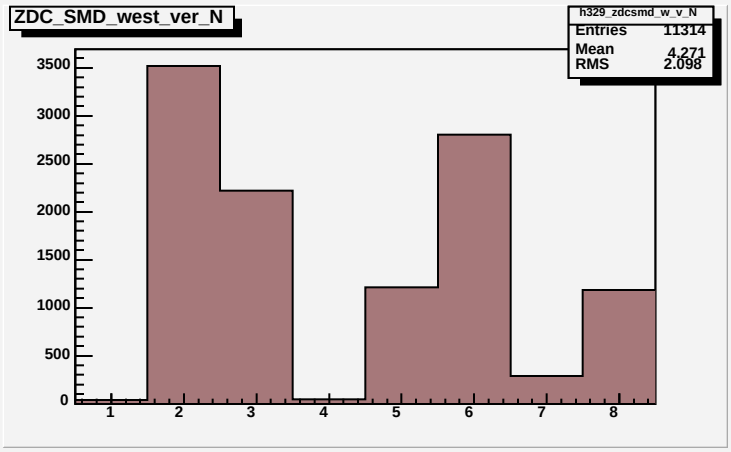

Occupancy Ladder 36
h375_ssd_lad36_occ
Entries 0
Mean 0
RMS 0

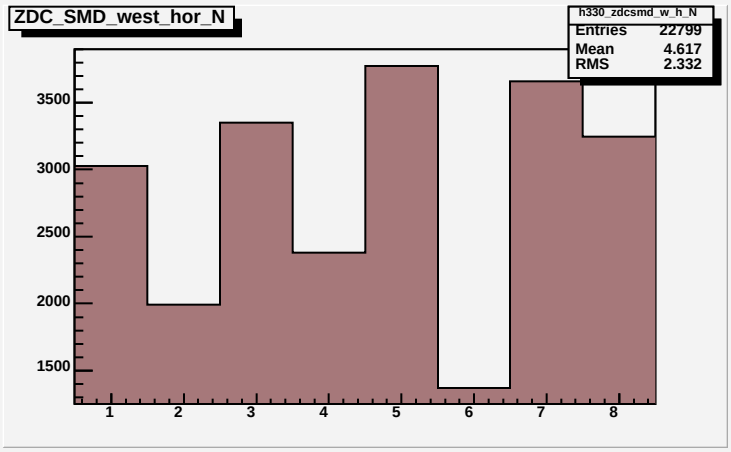

Occupancy Ladder 37
h376_ssd_lad37_occ
Entries 0
Mean 0
RMS 0

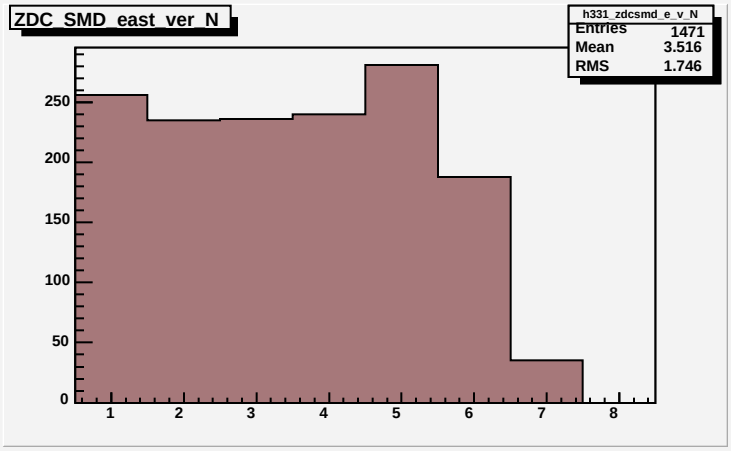
Occupancy Ladder 38
h377_ssd_lad38_occ
Entries 0
Mean 0
RMS 0

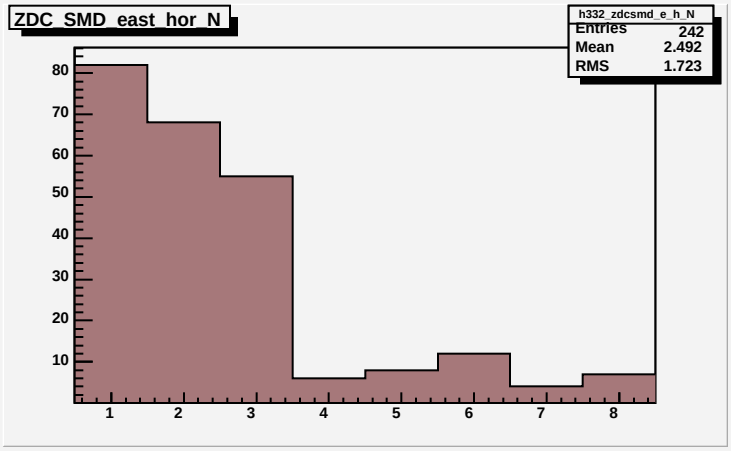
Occupancy Ladder 39
h378_ssd_lad39_occ
Entries 0
Mean 0
RMS 0

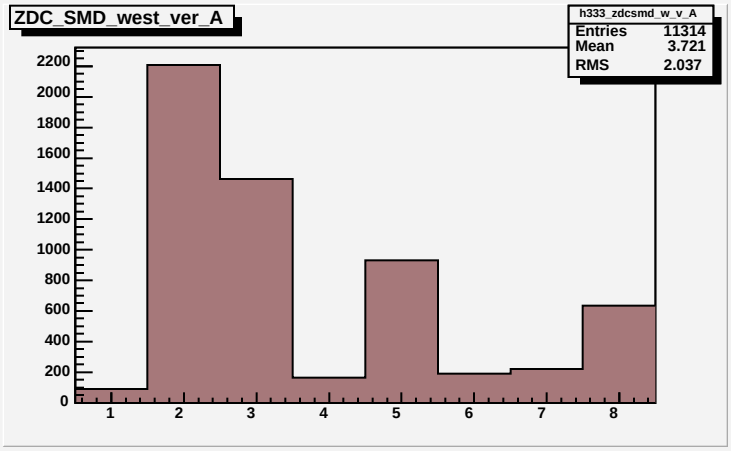
Occupancy Ladder 40
h379_ssd_lad40_occ
Entries 0
Mean 0
RMS 0

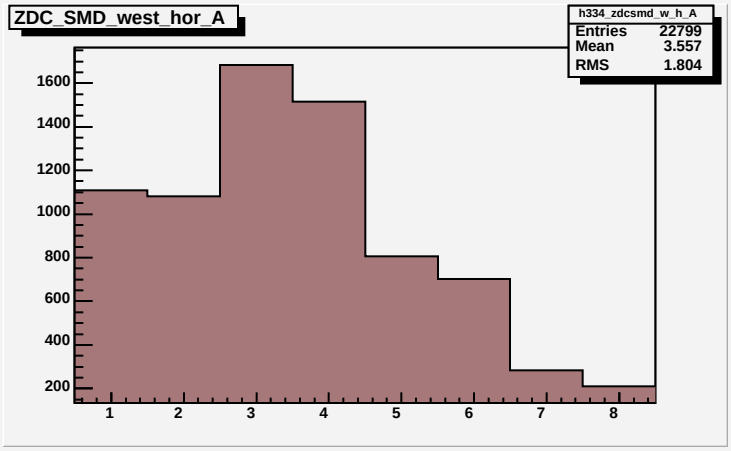

ZDC_SMD_west_ver_N
h329_zdcsmd_w_v_N
Entries 11314
Mean 4.271
RMS 2.098

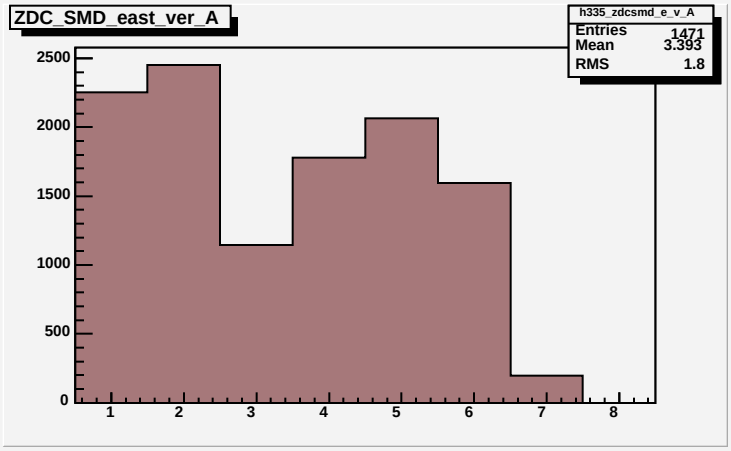

ZDC_SMD_west_hor_N
h330_zdcsmd_w_h_N
Entries 22799
Mean 4.617
RMS 2.332

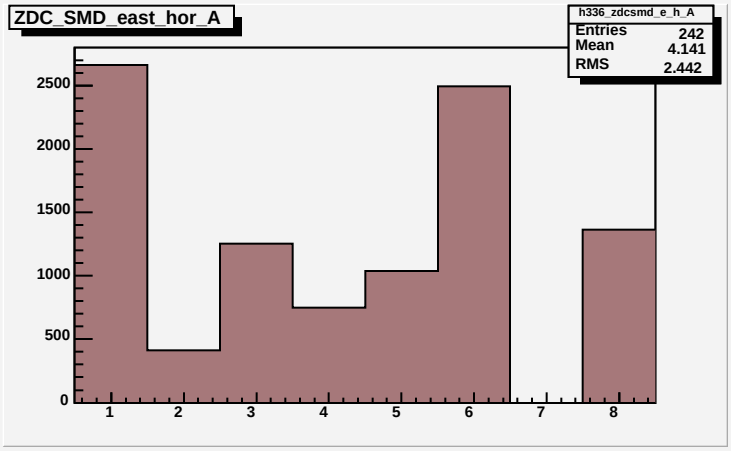

ZDC_SMD_east_ver_N
h331_zdcsmd_e_v_N
Entries 1471
Mean 3.516
RMS 1.746

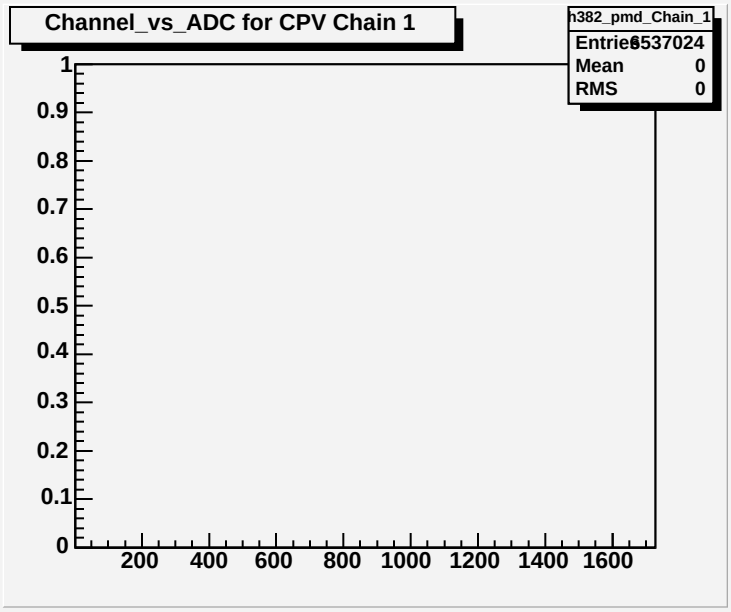

ZDC_SMD_east_hor_N
h332_zdcsmd_e_h_N
Entries 242
Mean 2.492
RMS 1.723

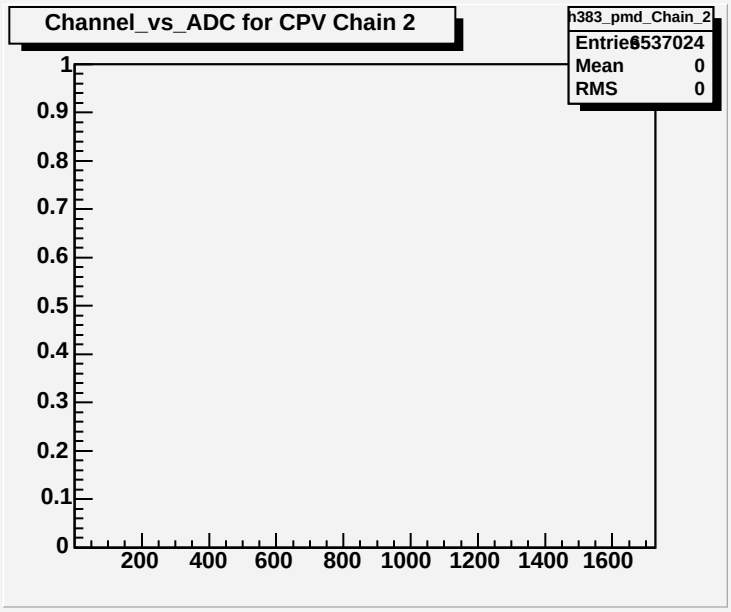

ZDC_SMD_west_ver_A
h333_zdcsmd_w_v_A
Entries 11314
Mean 3.721
RMS 2.037

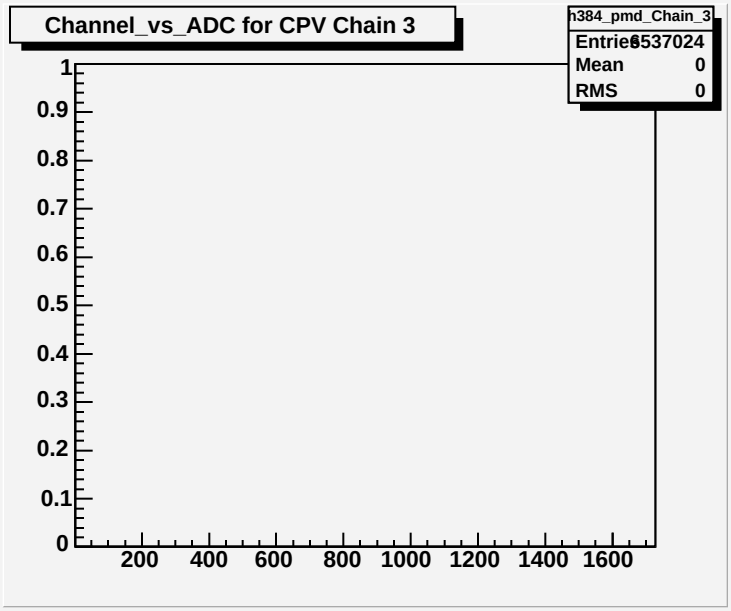

ZDC_SMD_west_hor_A
h334_zdcsmd_w_h_A
Entries 22799
Mean 3.557
RMS 1.804

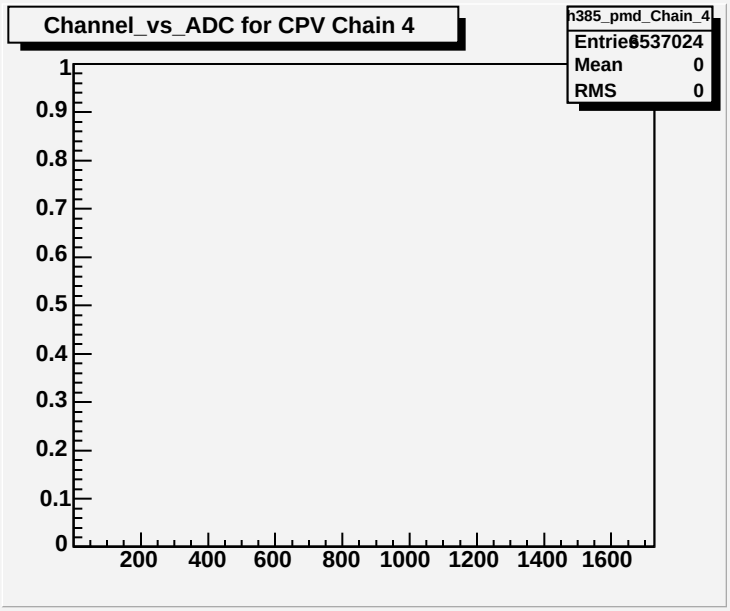

ZDC_SMD_east_ver_A
h335_zdcsmd_e_v_A
Entries 1471
Mean 3.393
RMS 1.8

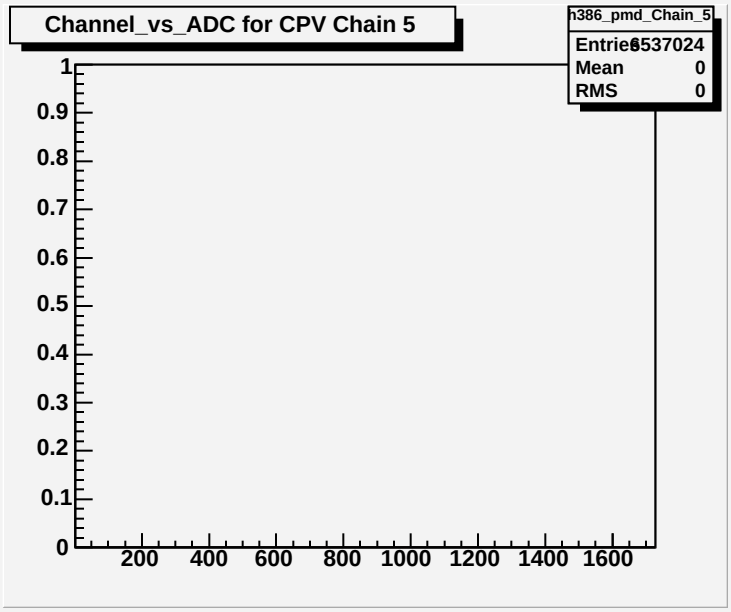

ZDC_SMD_east_hor_A
h336_zdcsmd_e_h_A
Entries 242
Mean 4.141
RMS 2.442

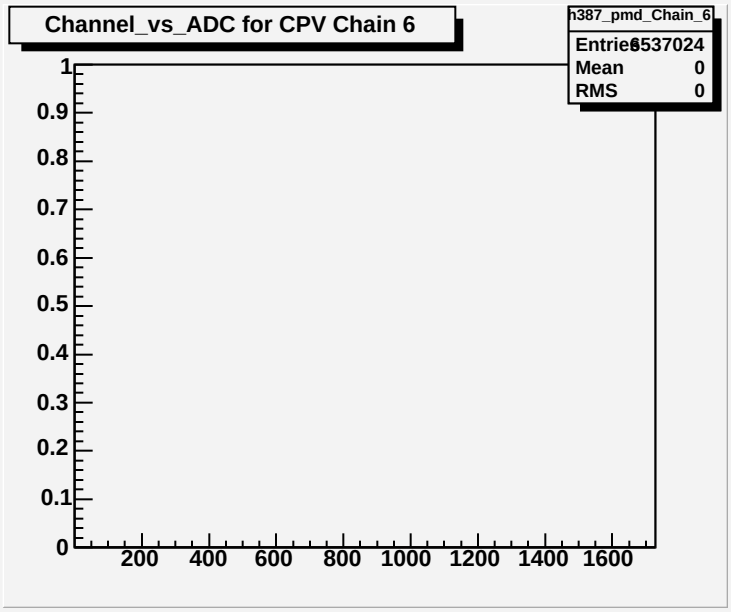

Channel_vs_ADC for CPV Chain 1
h382_pmd_Chain_1
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

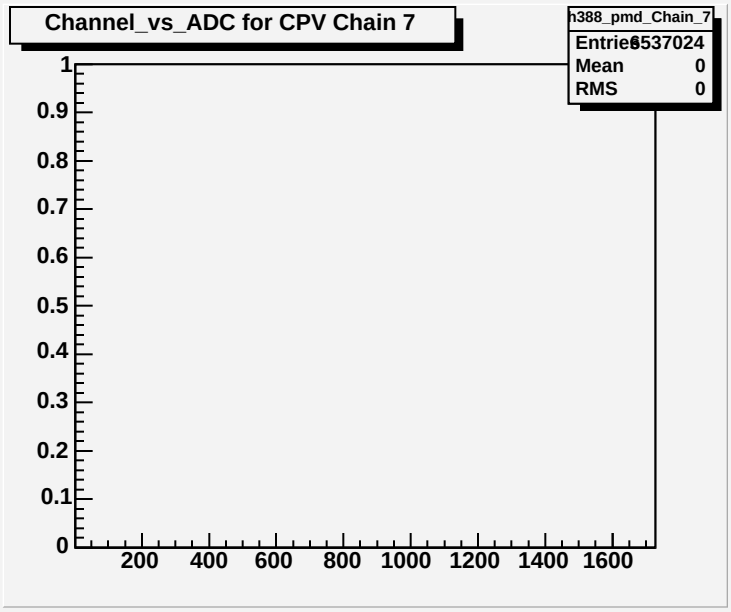

Channel_vs_ADC for CPV Chain 2
h383_pmd_Chain_2
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

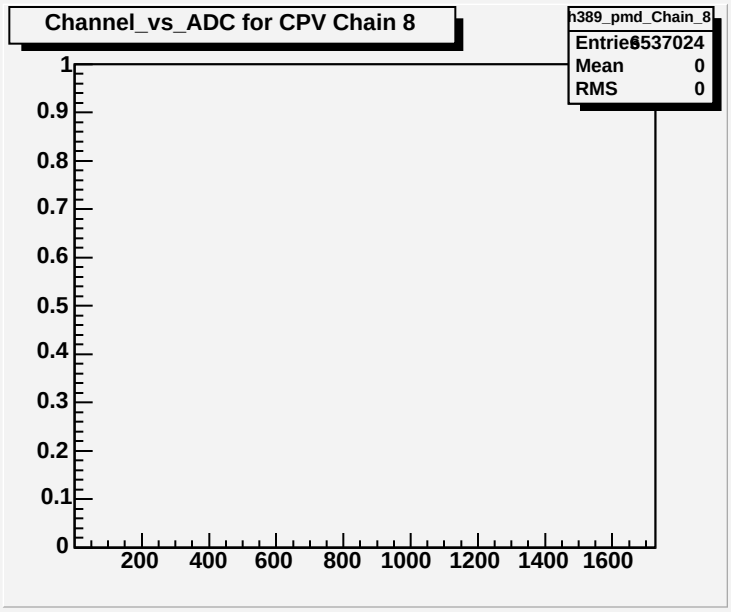

Channel_vs_ADC for CPV Chain 3
h384_pmd_Chain_3
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

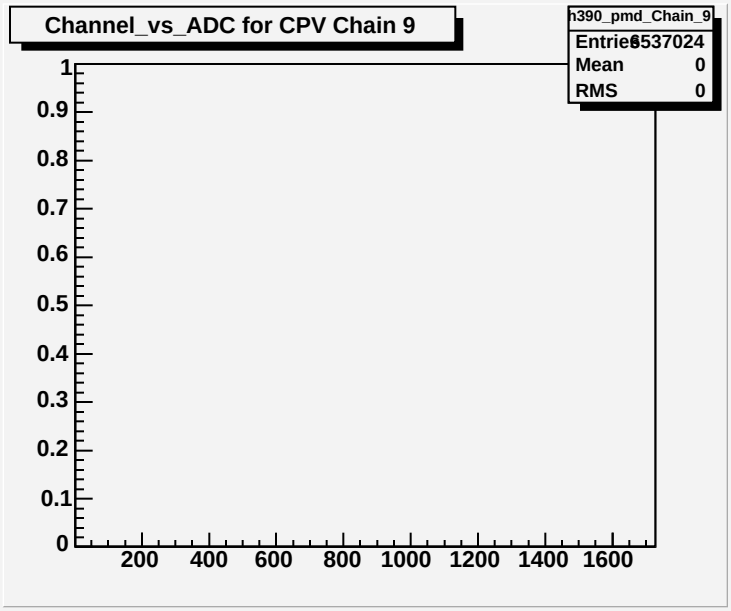

Channel_vs_ADC for CPV Chain 4
h385_pmd_Chain_4
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

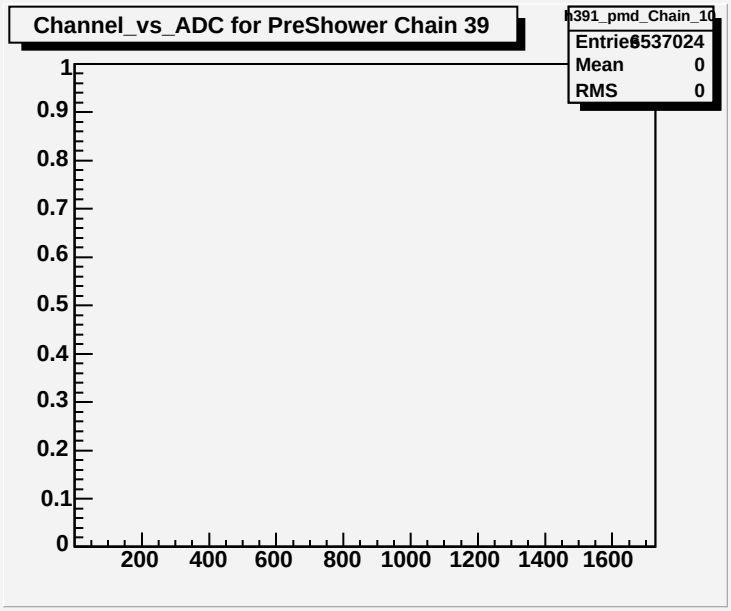

Channel_vs_ADC for CPV Chain 5
h386_pmd_Chain_5
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

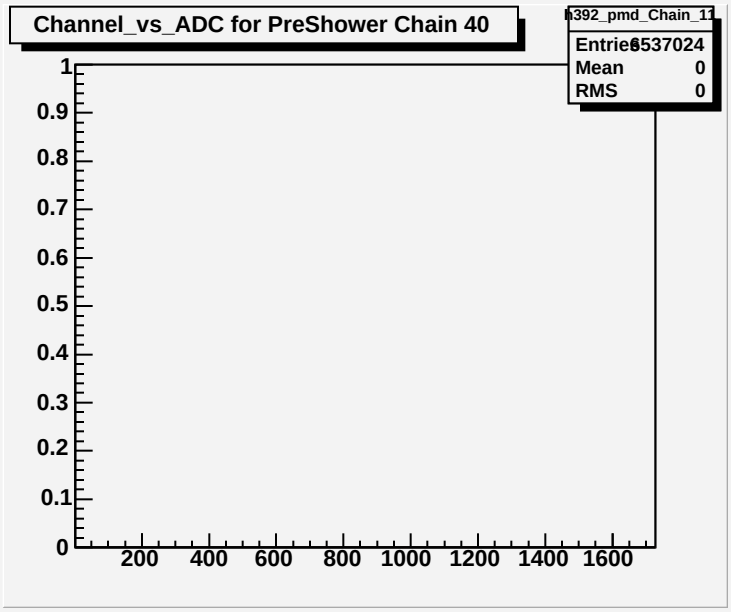

Channel_vs_ADC for CPV Chain 6
h387_pmd_Chain_6
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

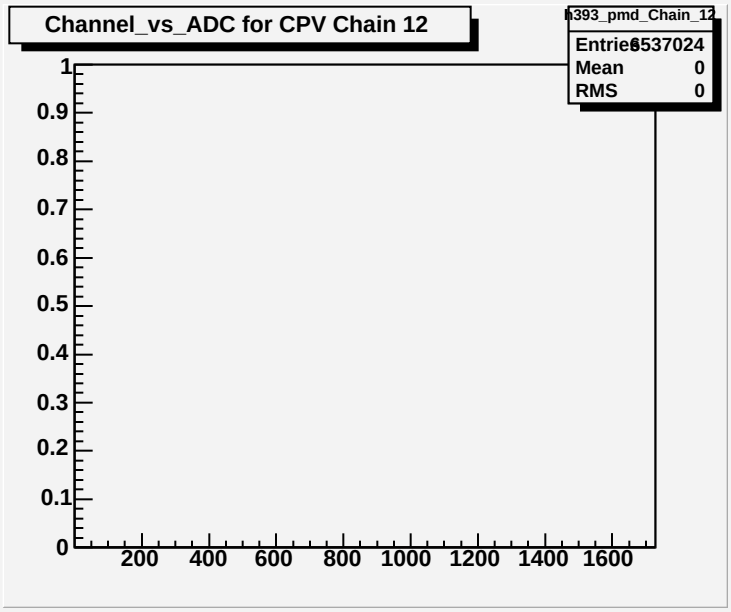

Channel_vs_ADC for CPV Chain 7
h388_pmd_Chain_7
Entries 6537024
Mean 0
RMS 0

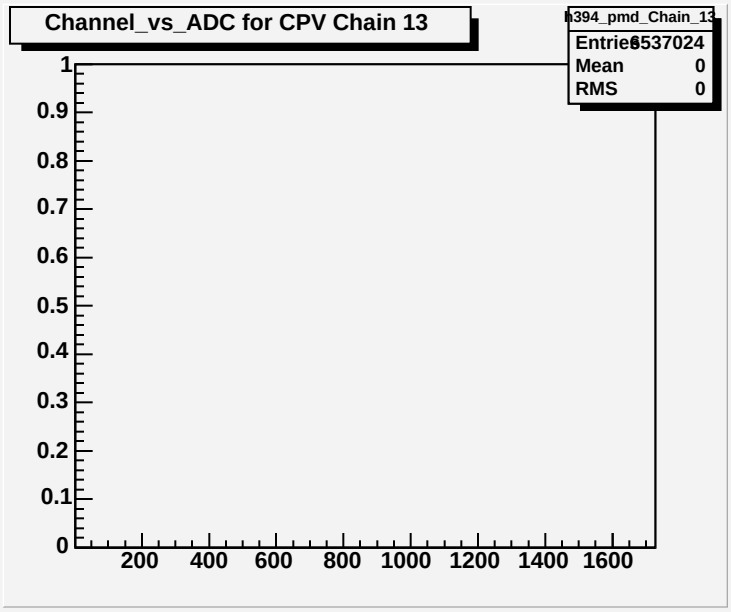

Channel_vs_ADC for CPV Chain 8
h389_pmd_Chain_8
Entries 6537024
Mean 0
RMS 0

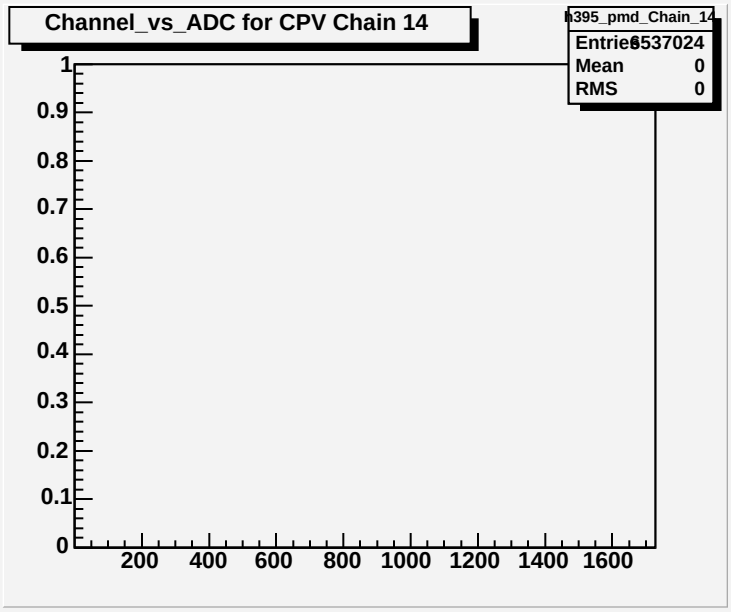

Channel_vs_ADC for CPV Chain 9
h390_pmd_Chain_9
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 39
h391_pmd_Chain_10
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 40
h392_pmd_Chain_11
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for CPV Chain 12
h393_pmd_Chain_12
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for CPV Chain 13
h394_pmd_Chain_13
Entries 6537024
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 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
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0.4
0.3
0.2
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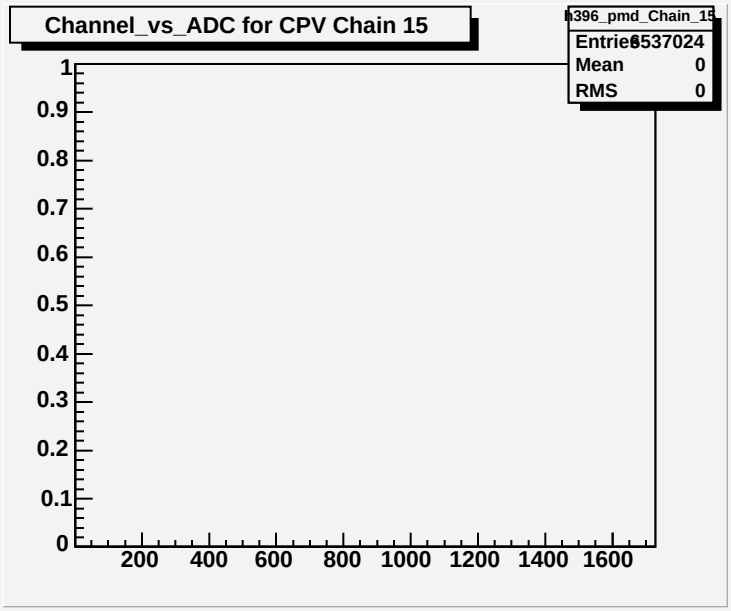
1000
1200
1400
1600


Channel_vs_ADC for CPV Chain 15
h396_pmd_Chain_15
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
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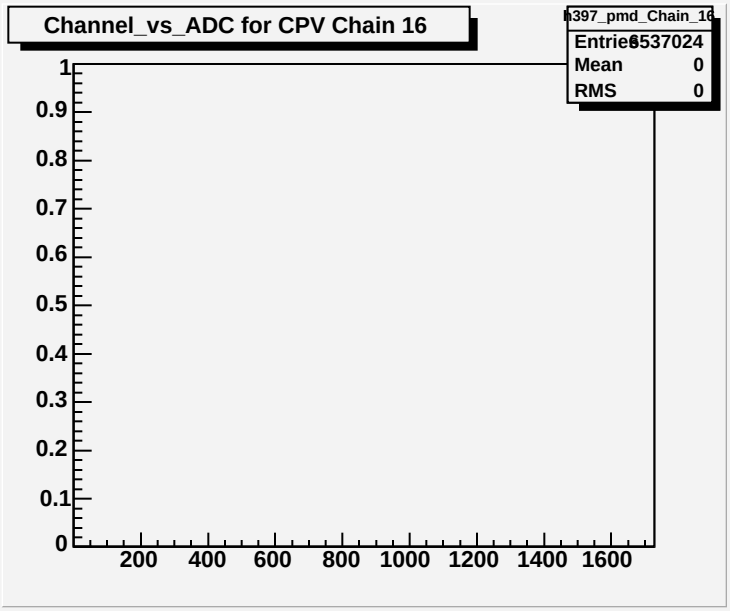
1000
1200
1400
1600


Channel_vs_ADC for CPV Chain 16
h397_pmd_Chain_16
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
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0.4
0.3
0.2
0.1
0
200
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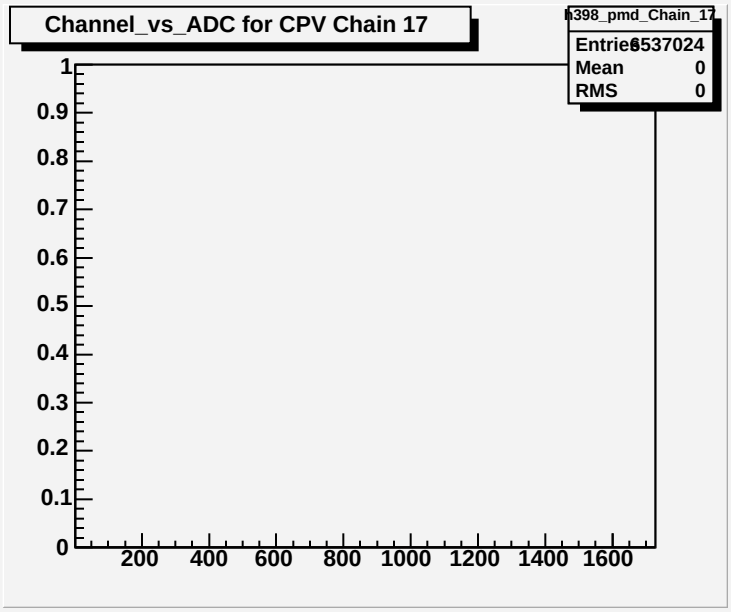
1200
1400
1600


Channel_vs_ADC for CPV Chain 17
h398_pmd_Chain_17
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
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1200
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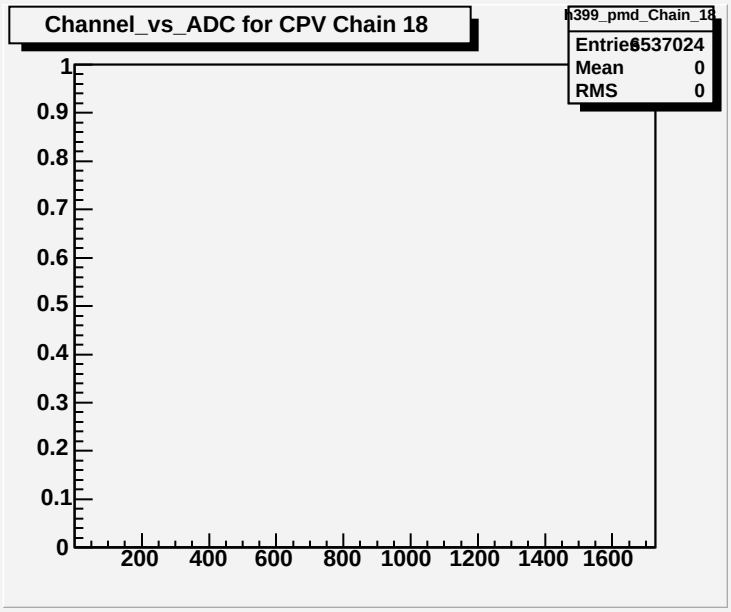
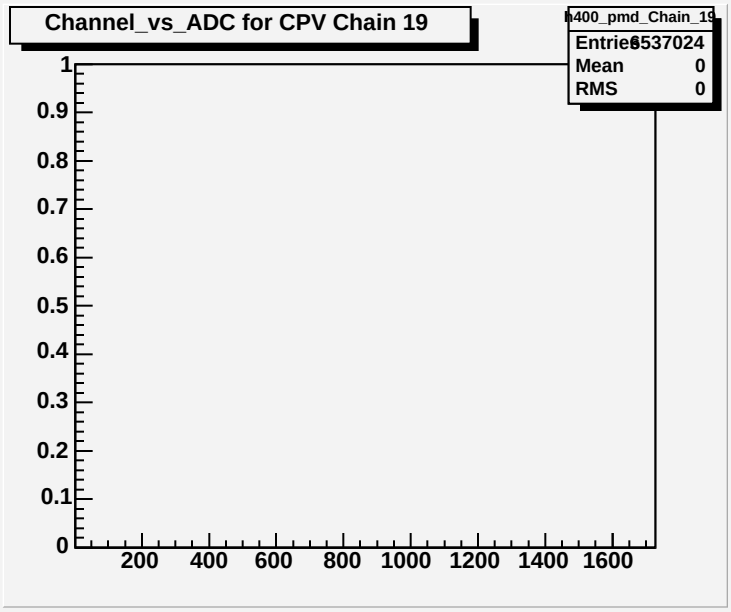

Channel_vs_ADC for CPV Chain 18
h399_pmd_Chain_18
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600


Channel_vs_ADC for CPV Chain 19
h400_pmd_Chain_19
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
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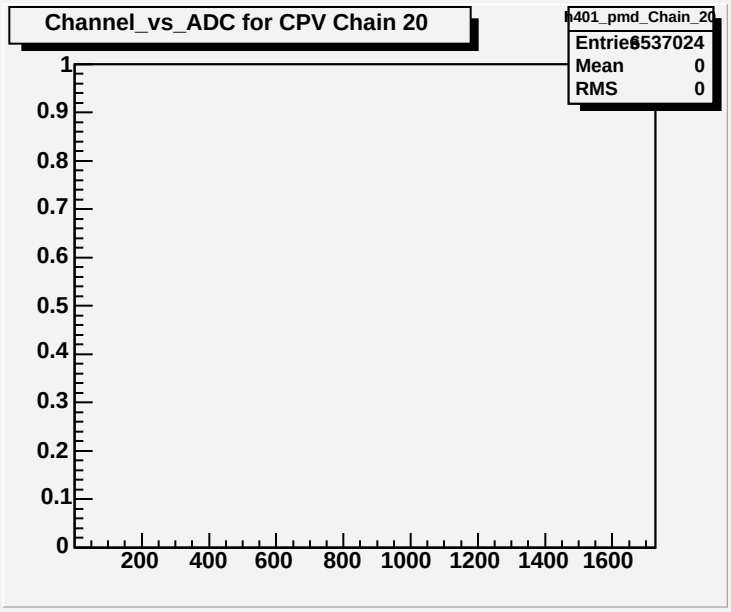
200
400
600
800
1000
1200
1400
1600


Channel_vs_ADC for CPV Chain 20
h401_pmd_Chain_20
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
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0.4
0.3
0.2
0.1
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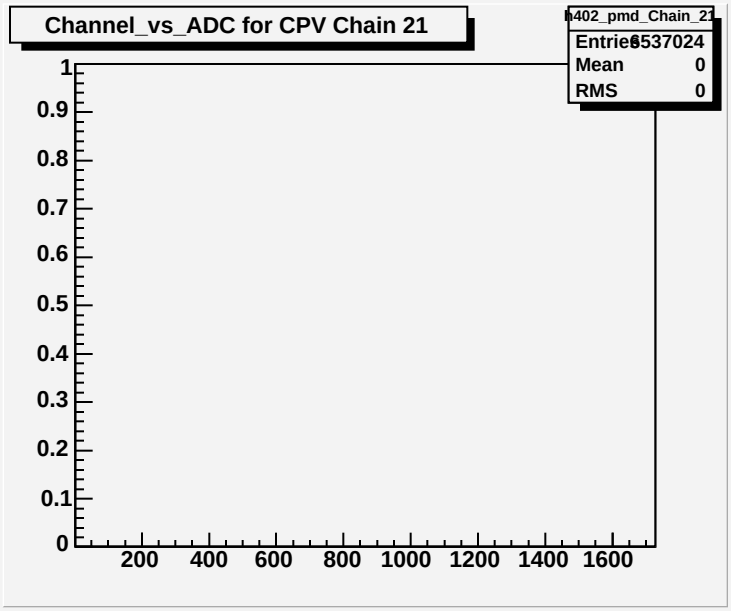
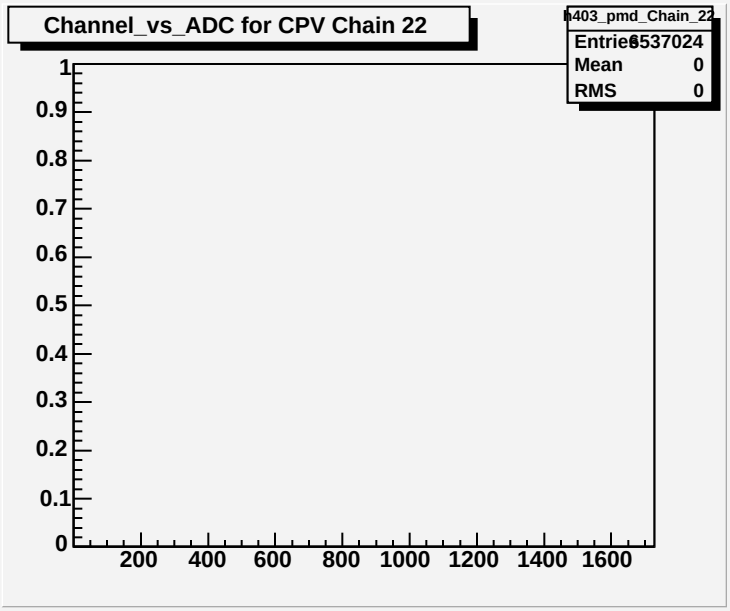
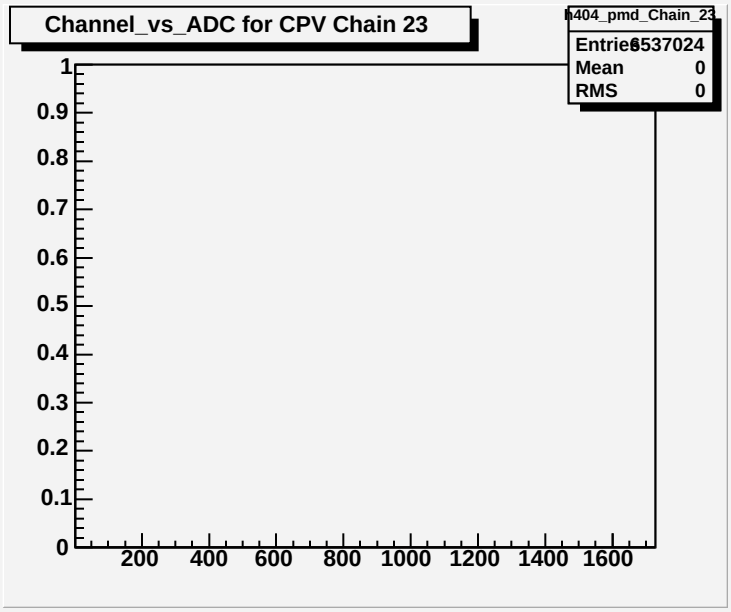
800
1000
1200
1400
1600


Channel_vs_ADC for CPV Chain 21
h402_pmd_Chain_21
Entries 6537024
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 22
h403_pmd_Chain_22
Entries 6537024
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 23
h404_pmd_Chain_23
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
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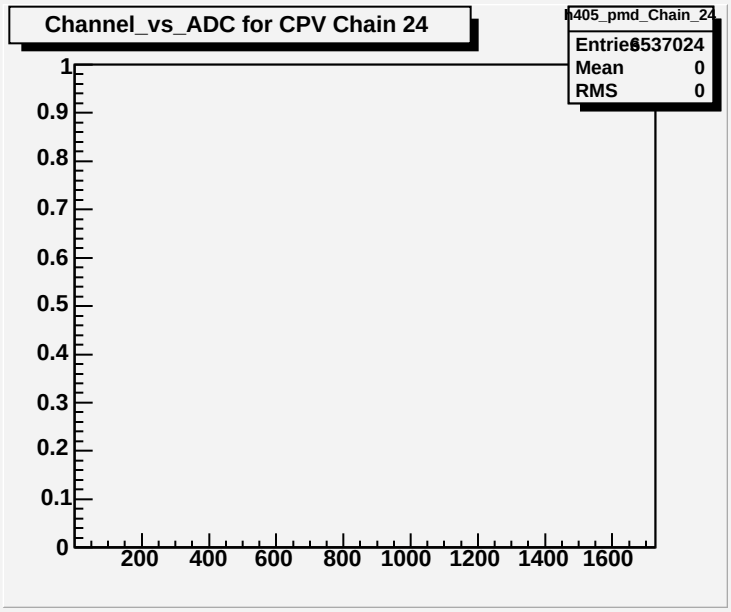
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600


Channel_vs_ADC for CPV Chain 24
h405_pmd_Chain_24
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
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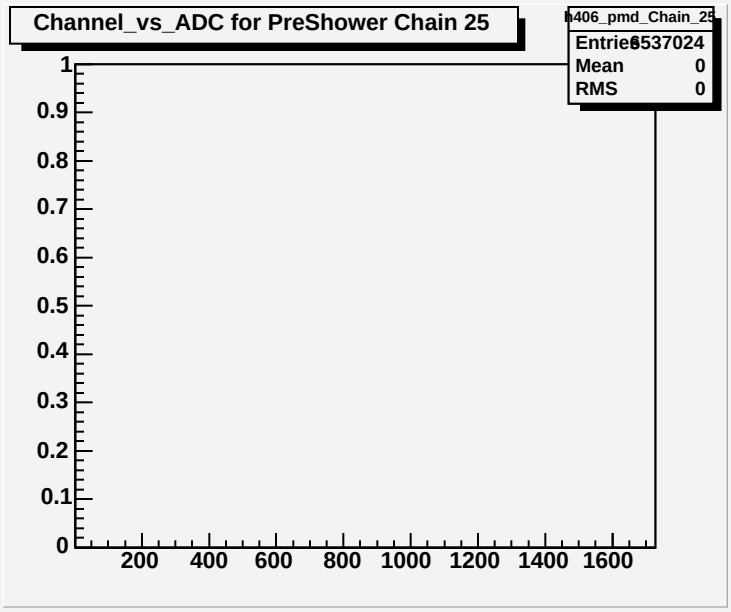
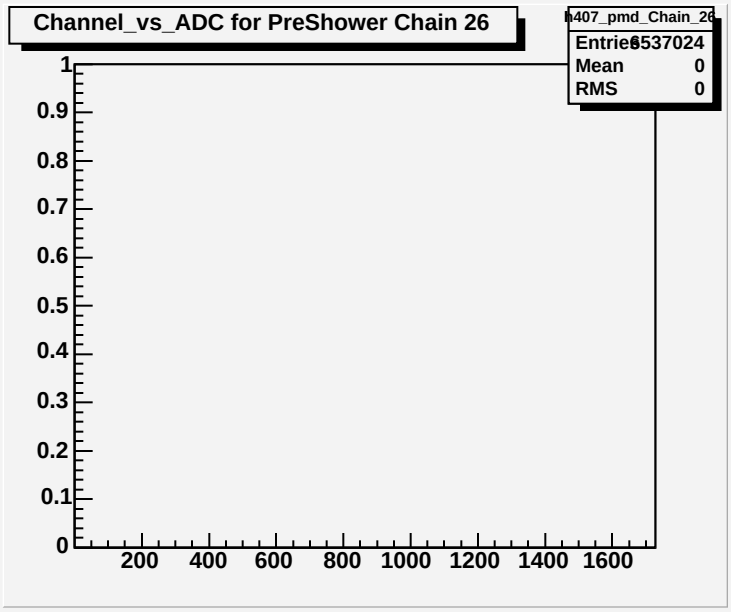
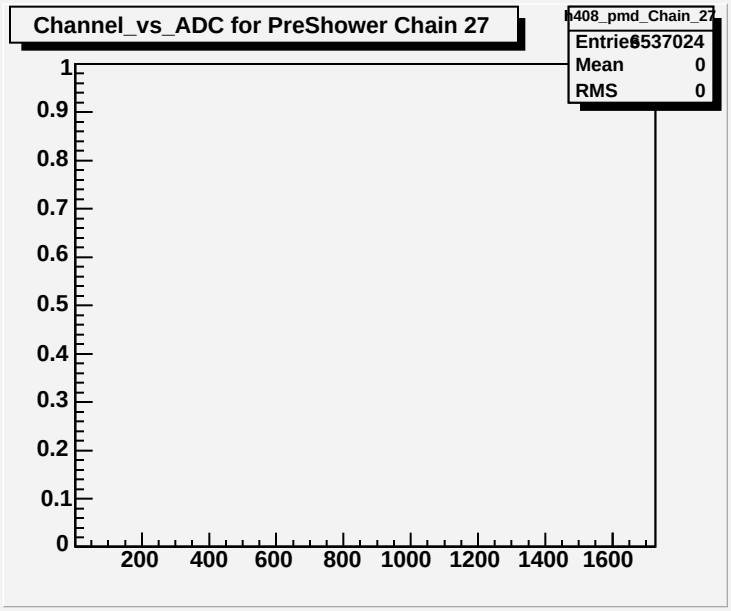
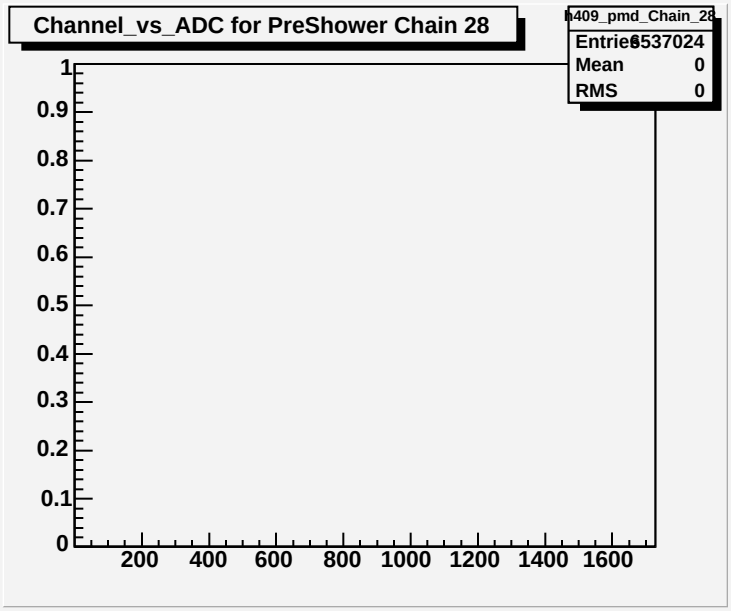
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600


Channel_vs_ADC for PreShower Chain 25
h406_pmd_Chain_25
Entries 6537024
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 6537024
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 6537024
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 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
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0.4
0.3
0.2
0.1
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1400
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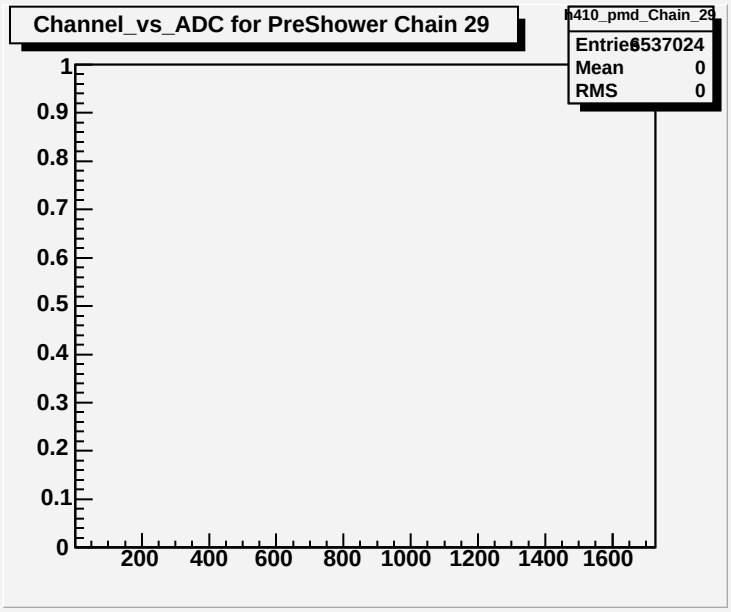
Channel_vs_ADC for PreShower Chain 29
h410_pmd_Chain_29
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
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0.4
0.3
0.2
0.1
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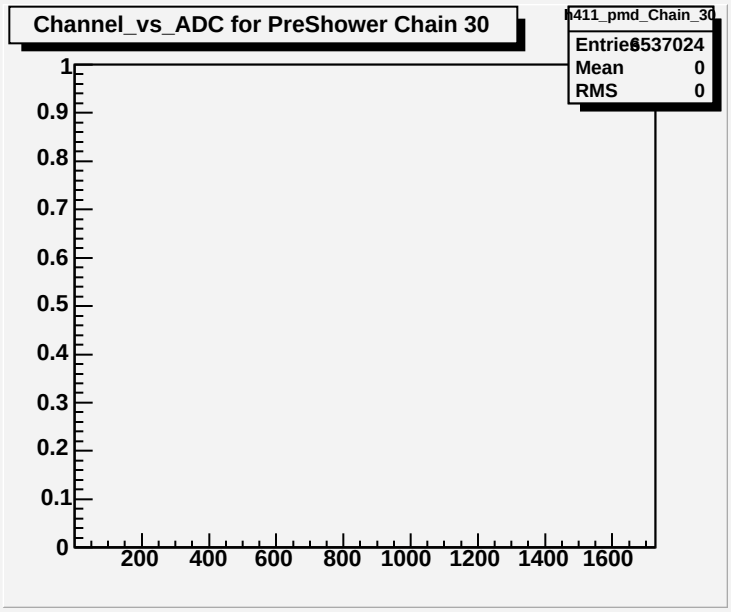
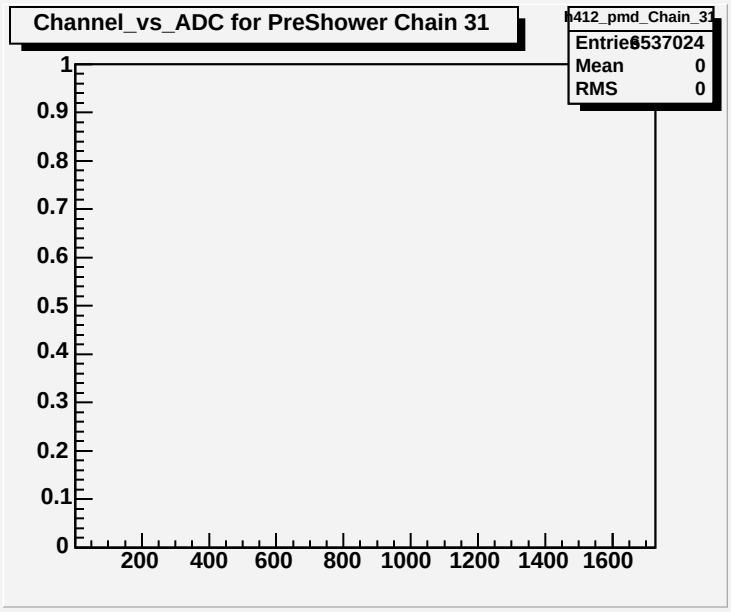
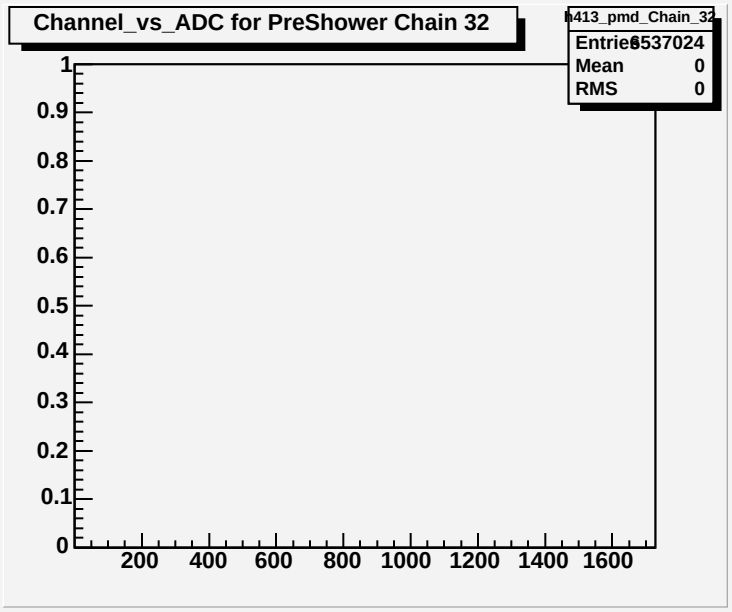
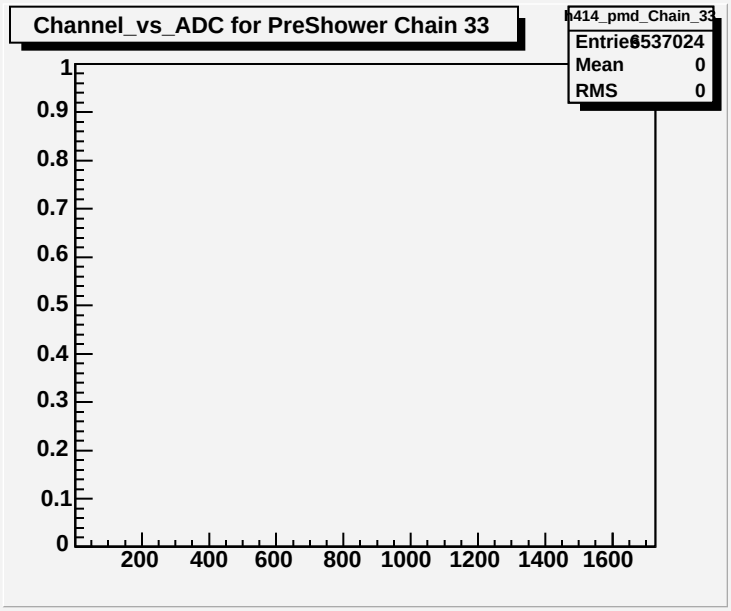
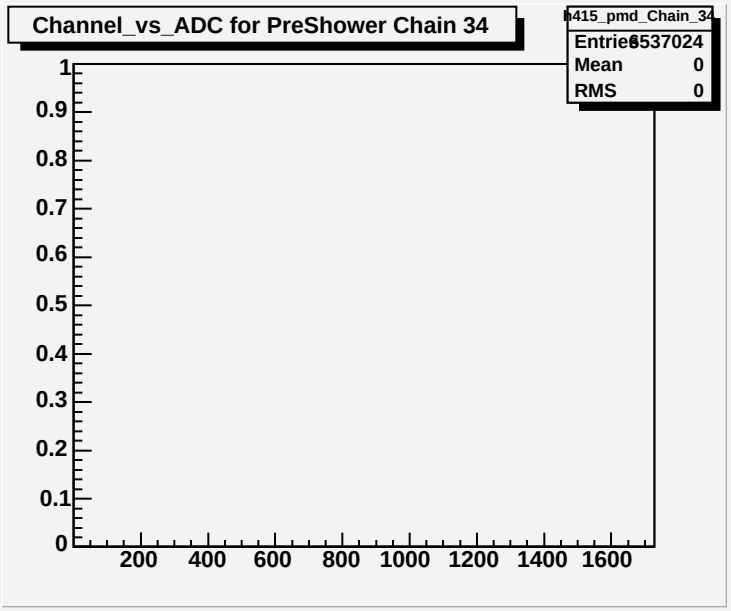
1000
1200
1400
1600

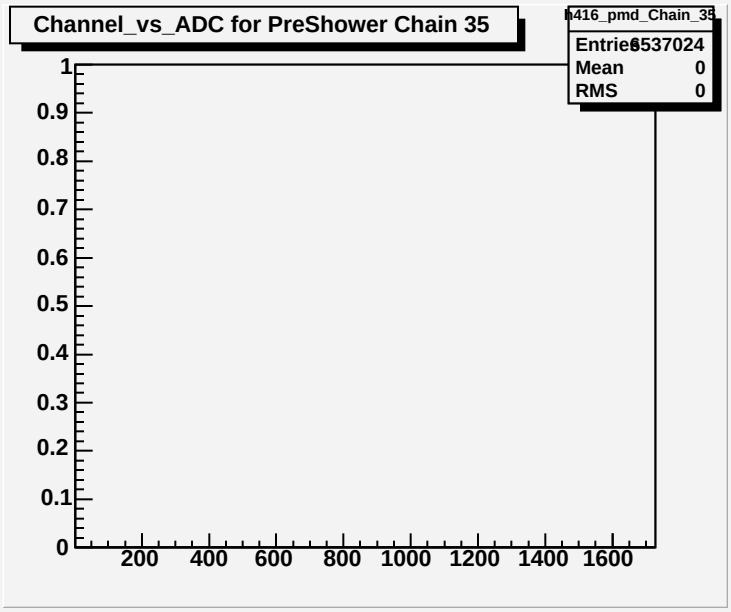

Channel_vs_ADC for PreShower Chain 30
h411_pmd_Chain_30
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
200
400
600
800
1000
1200
1400
1600

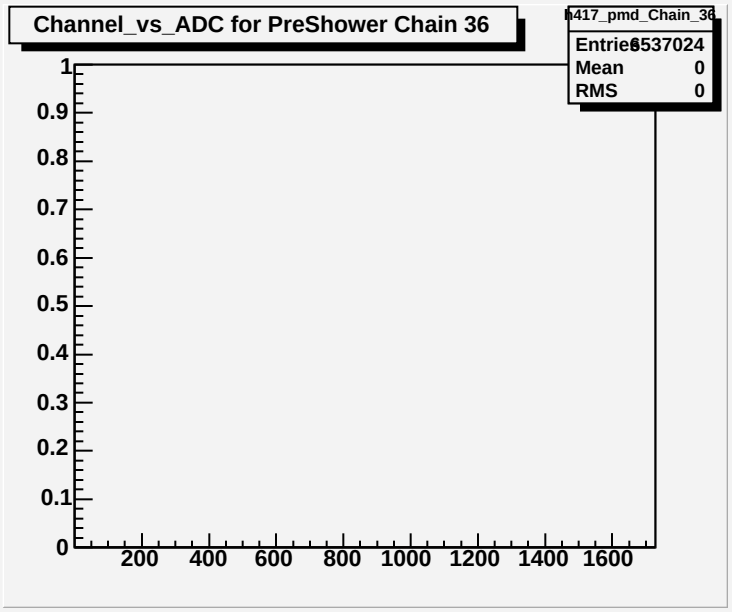

Channel_vs_ADC for PreShower Chain 31
h412_pmd_Chain_31
Entries 6537024
Mean 0
RMS 0

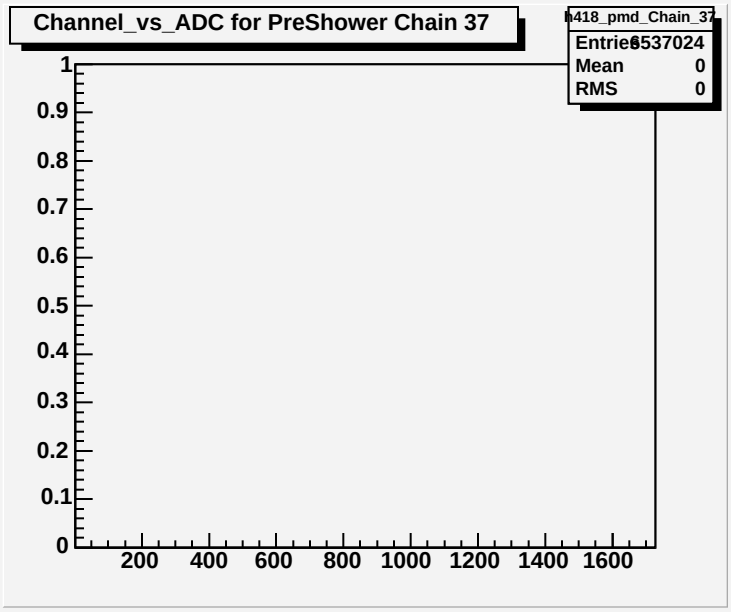

Channel_vs_ADC for PreShower Chain 32
h413_pmd_Chain_32
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 33
h414_pmd_Chain_33
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 34
h415_pmd_Chain_34
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 35
h416_pmd_Chain_35
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 36
h417_pmd_Chain_36
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 37
h418_pmd_Chain_37
Entries 6537024
Mean 0
RMS 0
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0.8
0.7
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0.4
0.3
0.2
0.1
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200
400
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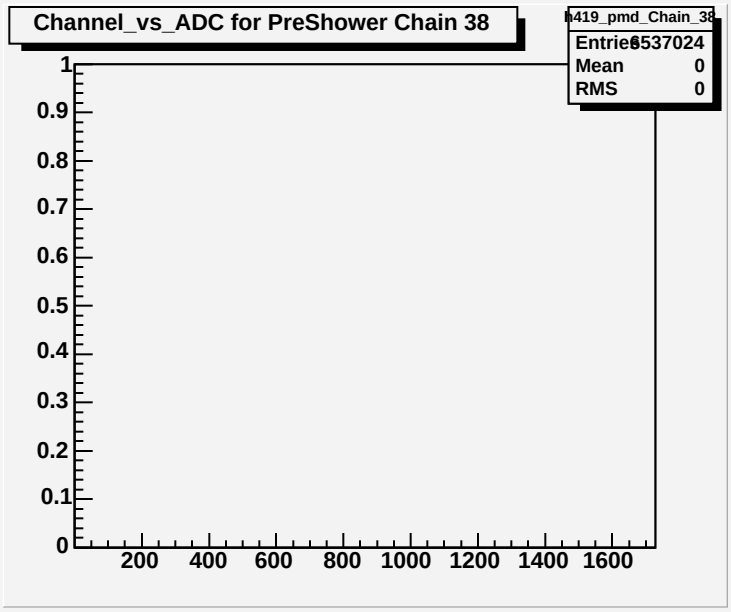
1000
1200
1400
1600


Channel_vs_ADC for PreShower Chain 38
h419_pmd_Chain_38
Entries 6537024
Mean 0
RMS 0
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0.8
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0.4
0.3
0.2
0.1
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1200
1400
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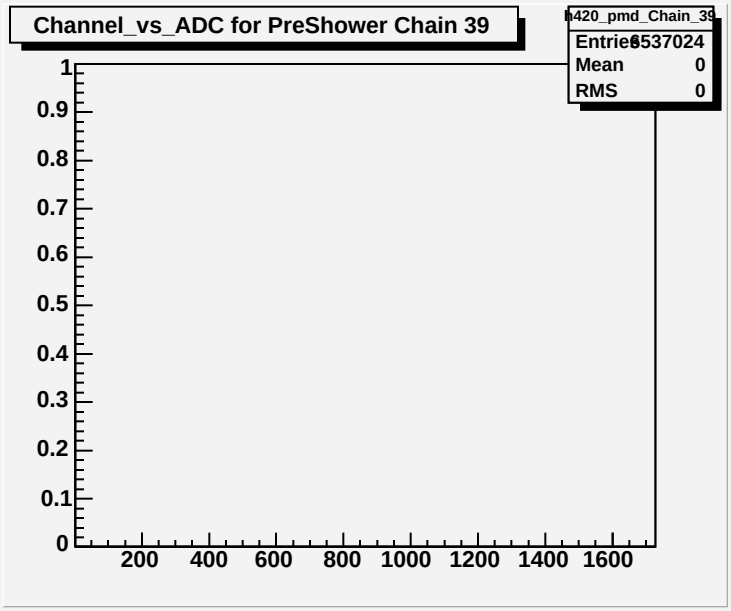
Channel_vs_ADC for PreShower Chain 39
h420_pmd_Chain_39
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
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0.4
0.3
0.2
0.1
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400
600
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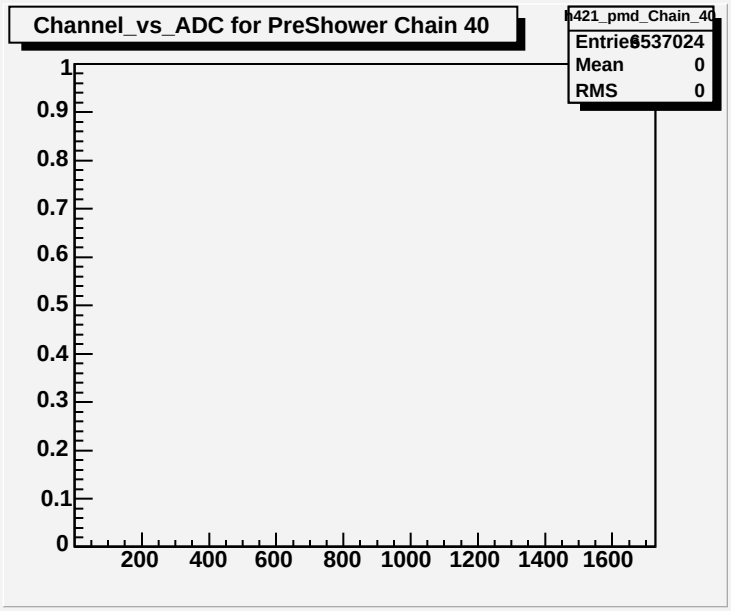
1200
1400
1600


Channel_vs_ADC for PreShower Chain 40
h421_pmd_Chain_40
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
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0.4
0.3
0.2
0.1
0
200
400
600
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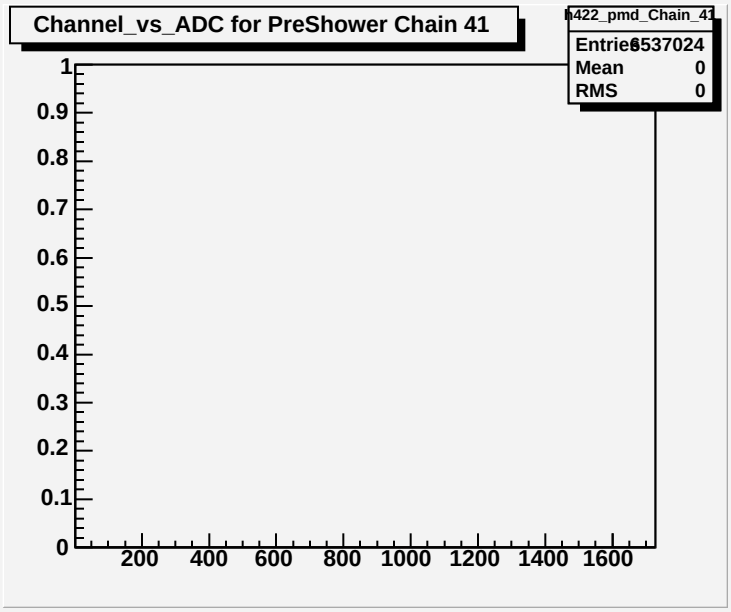
1000
1200
1400
1600


Channel_vs_ADC for PreShower Chain 41
h422_pmd_Chain_41
Entries 6537024
Mean 0
RMS 0
1
0.9
0.8
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0.4
0.3
0.2
0.1
0
200
400
600
800
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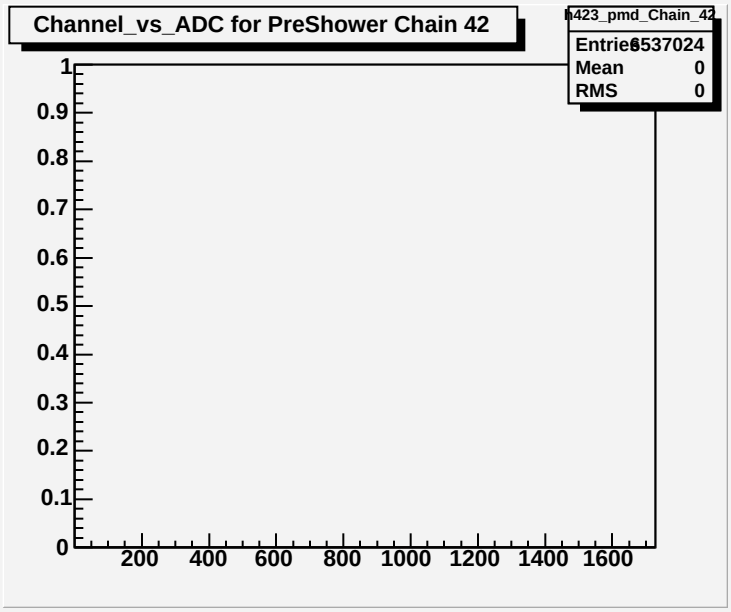
1400
1600


Channel_vs_ADC for PreShower Chain 42
h423_pmd_Chain_42
Entries 6537024
Mean 0
RMS 0
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0.8
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0.4
0.3
0.2
0.1
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200
400
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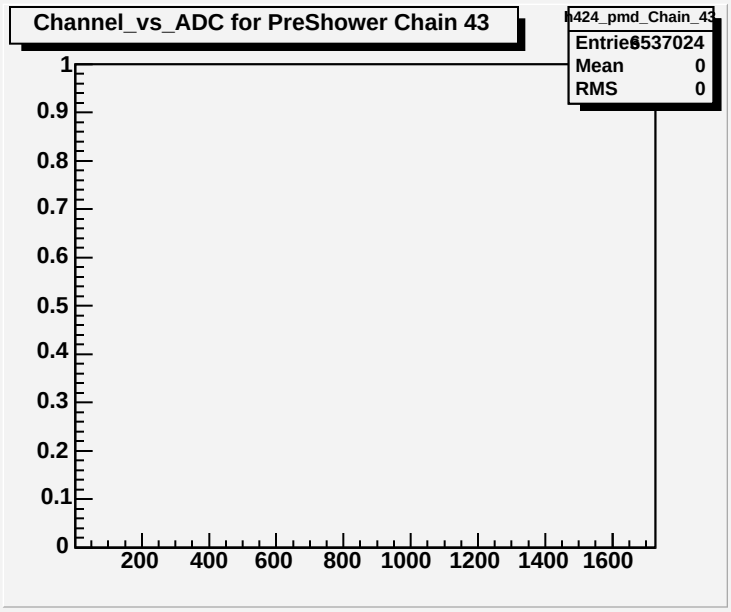
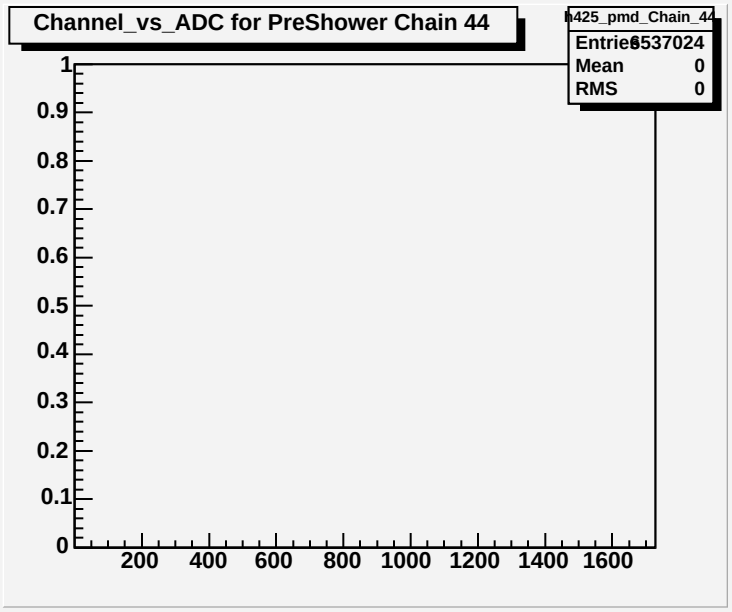
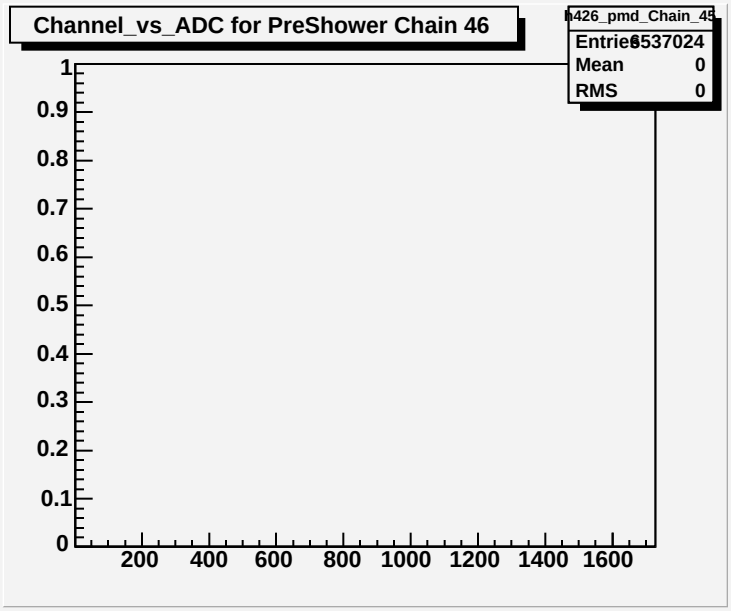
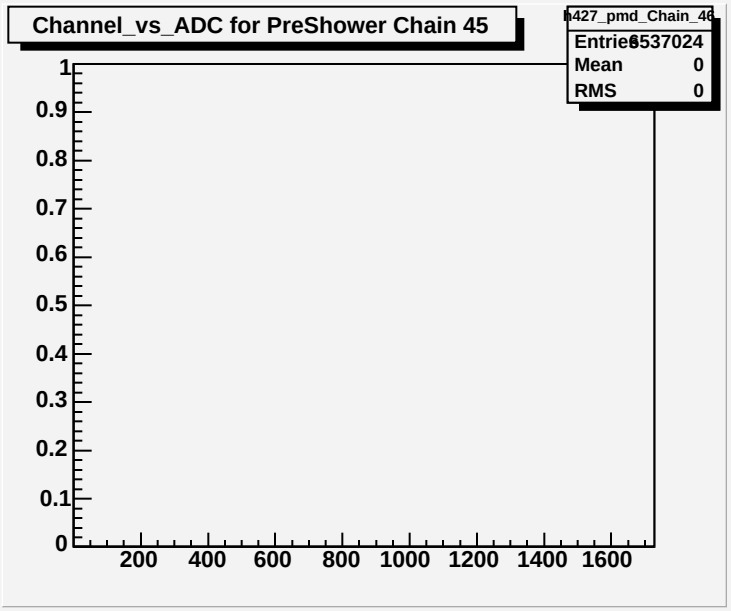
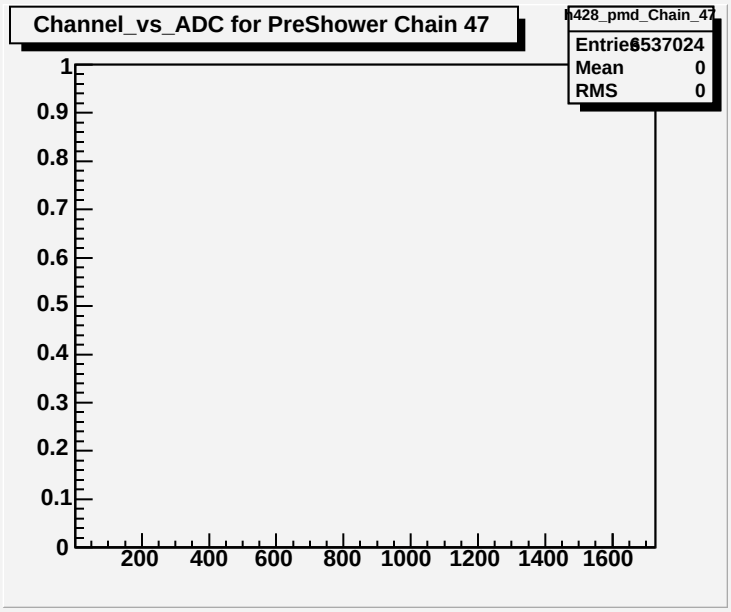
1200
1400
1600

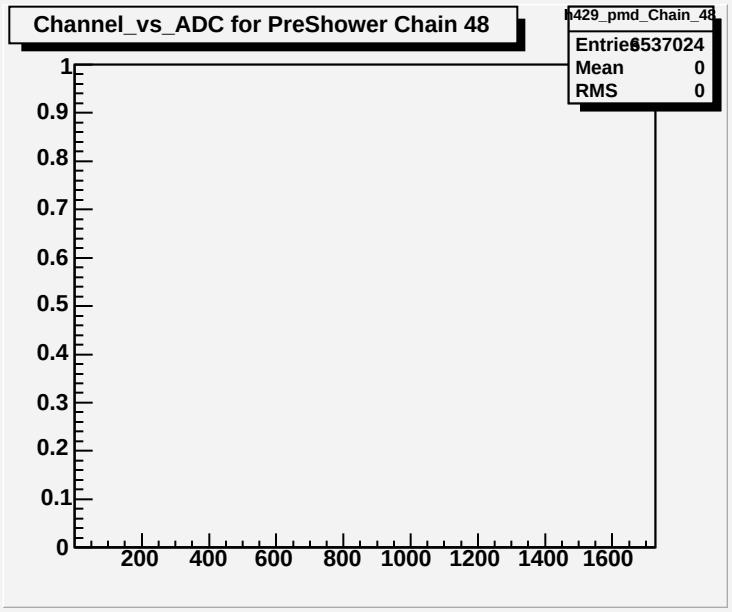

Channel_vs_ADC for PreShower Chain 43
h424_pmd_Chain_43
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 44
h425_pmd_Chain_44
Entries 6537024
Mean 0
RMS 0

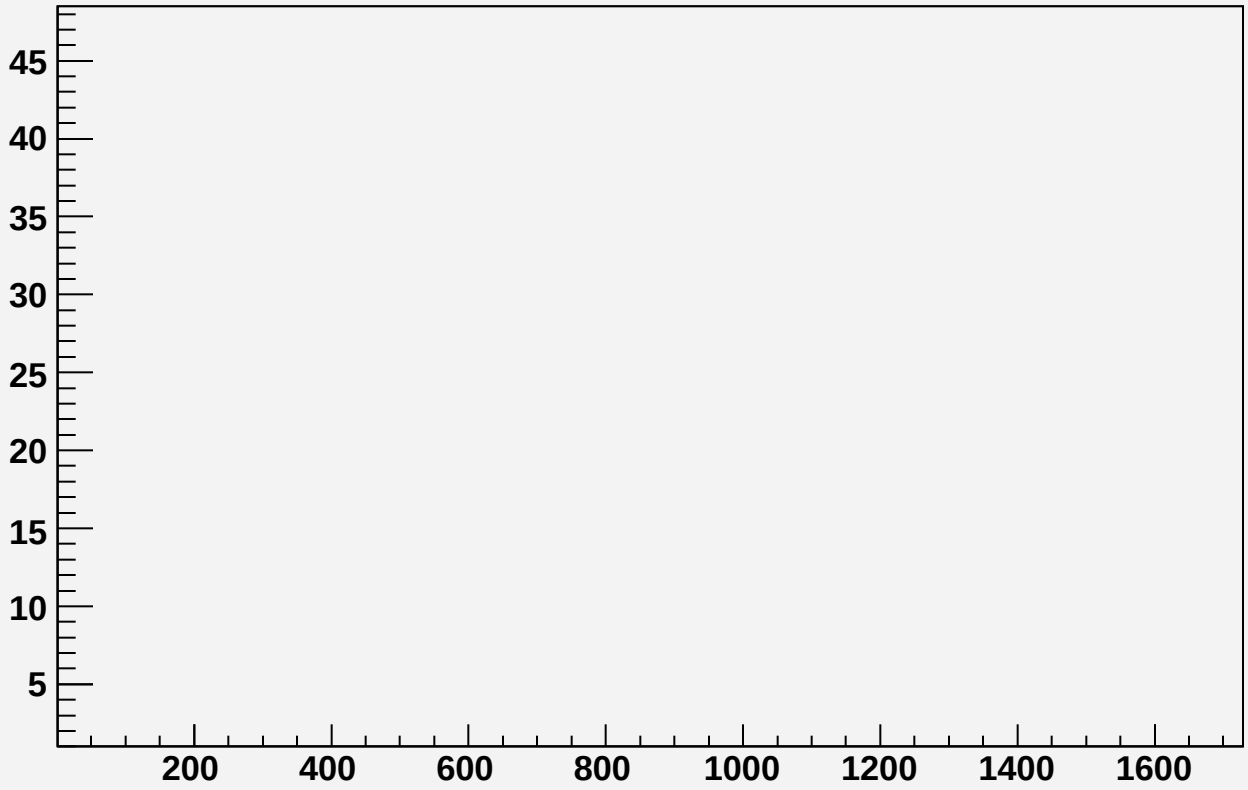

Channel_vs_ADC for PreShower Chain 46
h426_pmd_Chain_45
Entries 6537024
Mean 0
RMS 0


Channel_vs_ADC for PreShower Chain 45
h427_pmd_Chain_46
Entries 6537024
Mean 0
RMS 0

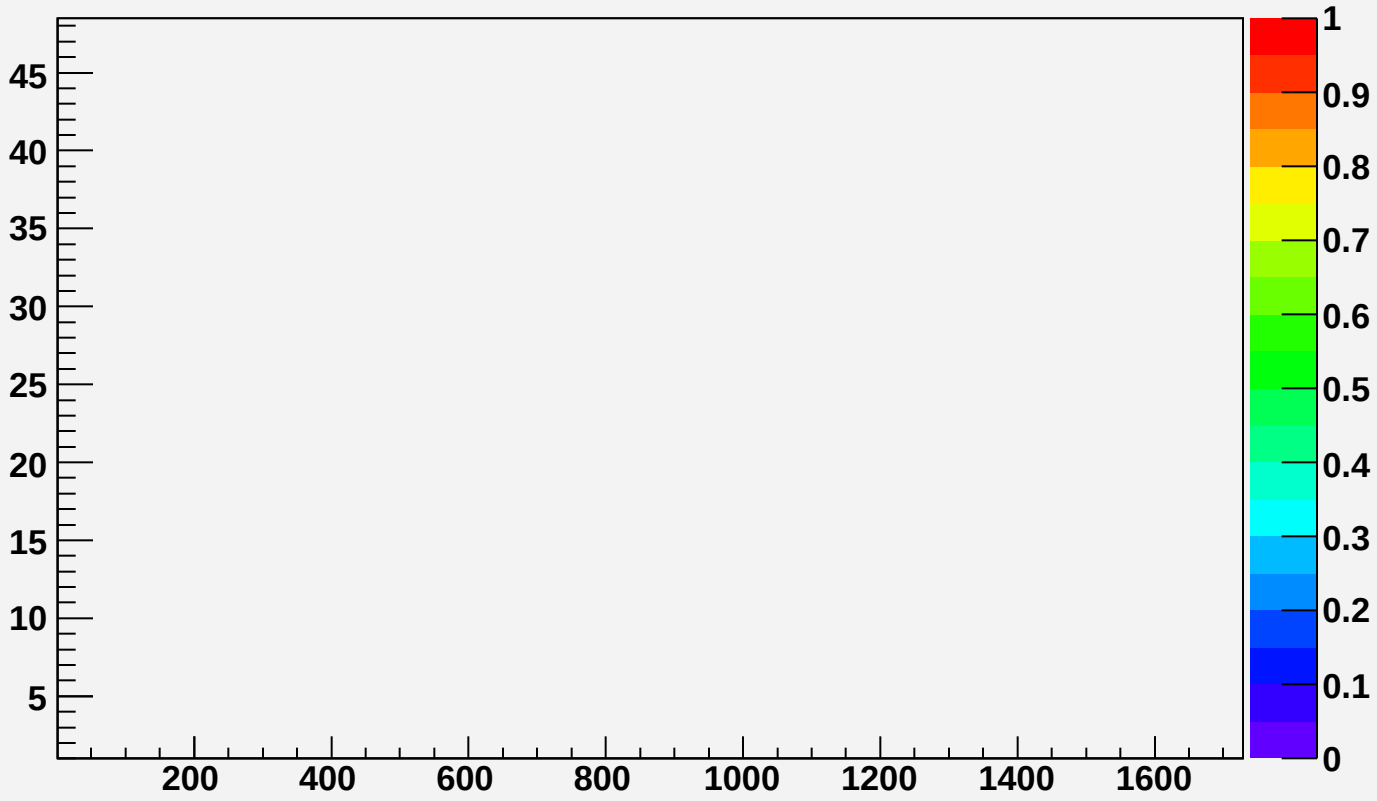

Channel_vs_ADC for PreShower Chain 47
h428_pmd_Chain_47
Entries 6537024
Mean 0
RMS 0

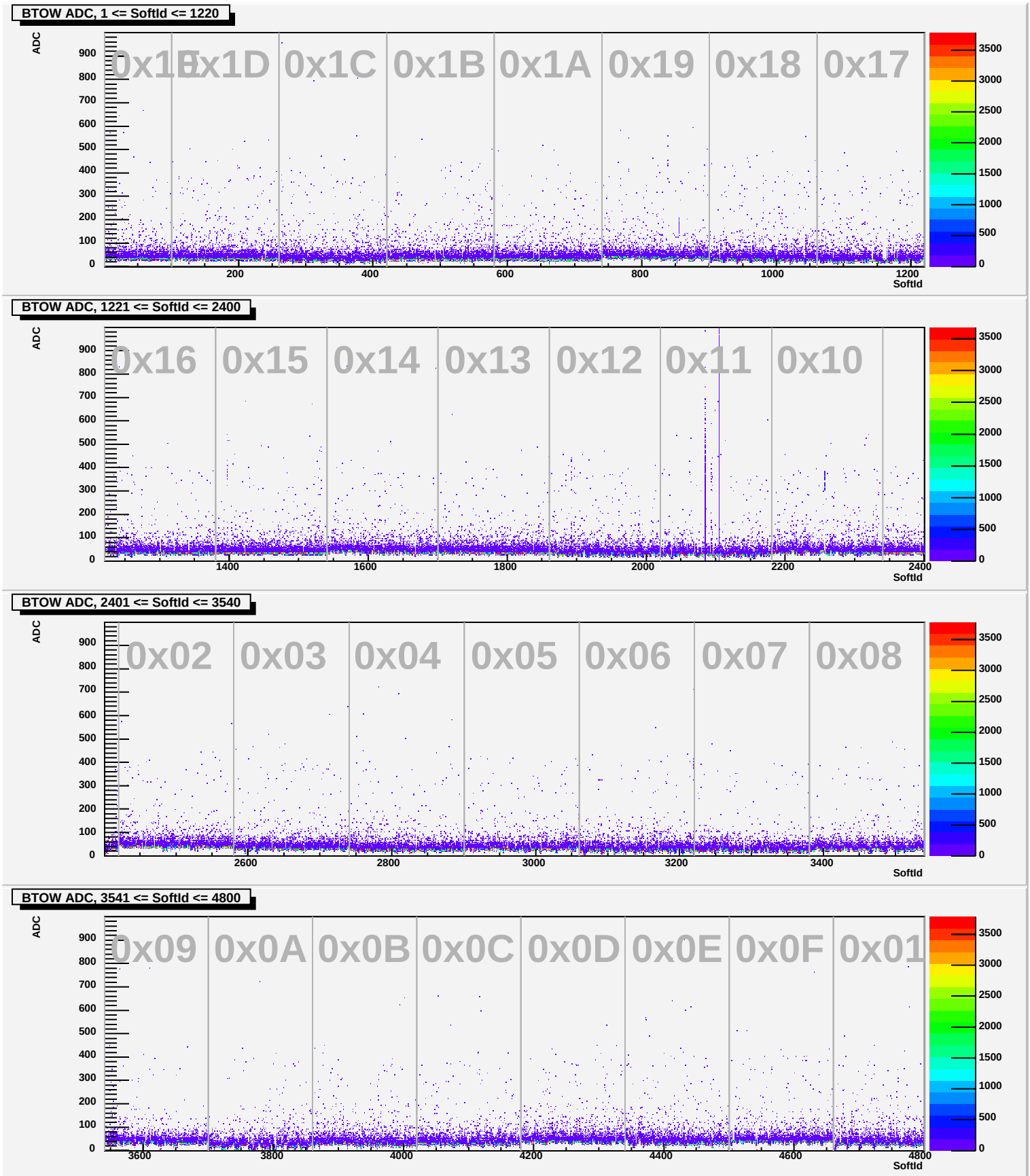

Channel_vs_ADC for PreShower Chain 48
h429_pmd_Chain_48
Entries 6537024
Mean 0
RMS 0

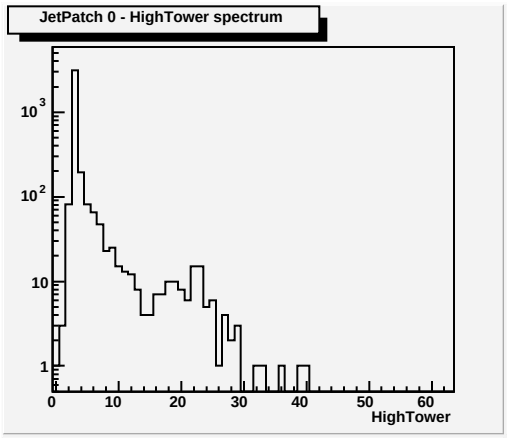
Chain vs Channel 2D

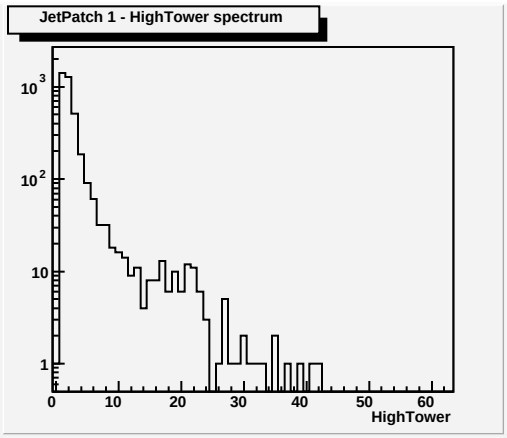


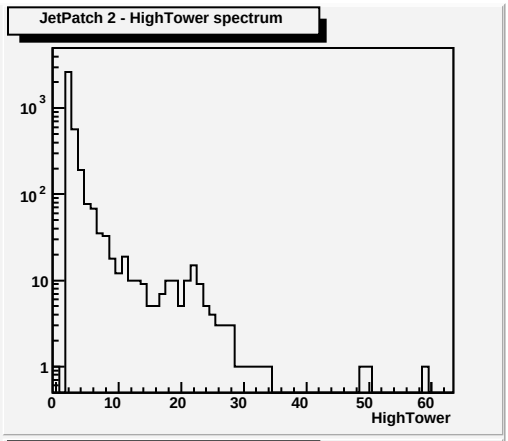
Chain vs Channel 2D (ADC weighted)

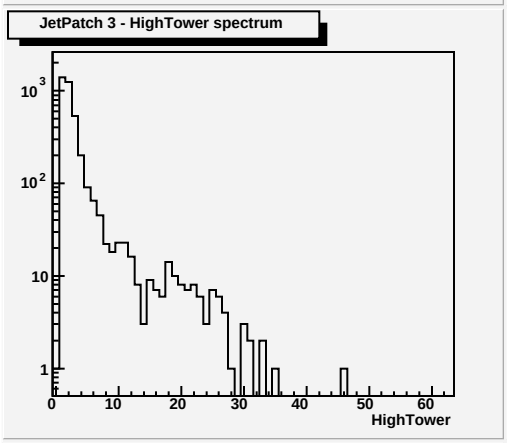


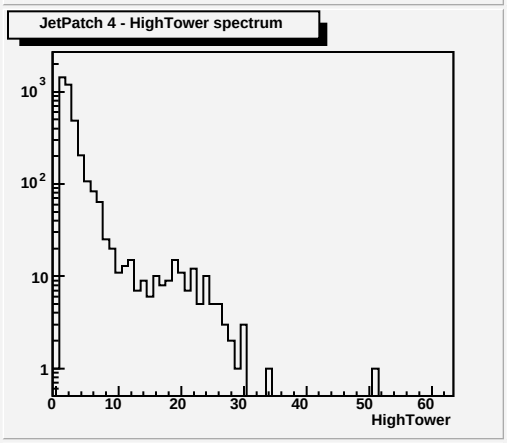

BTOW ADC, 1 <= SoftId <= 1220
0x1E 0x1D 0x1C 0x1B 0x1A 0x19 0x18 0x17
ADC
SoftId
BTOW ADC, 1221 <= SoftId <= 2400
0x16 0x15 0x14 0x13 0x12 0x11 0x10
ADC
SoftId
BTOW ADC, 2401 <= SoftId <= 3540
0x02 0x03 0x04 0x05 0x06 0x07 0x08
ADC
SoftId
BTOW ADC, 3541 <= SoftId <= 4800
0x09 0x0A 0x0B 0x0C 0x0D 0x0E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

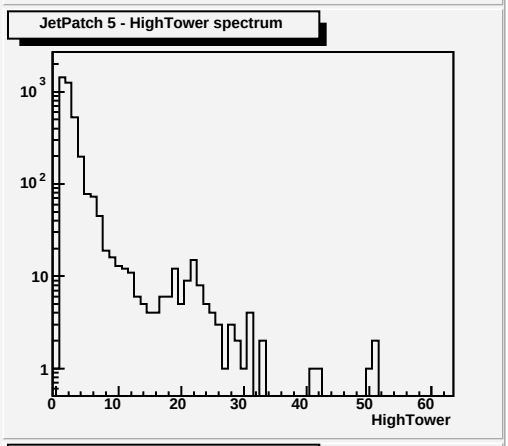

JetPatch 0 - HighTower spectrum
HighTower

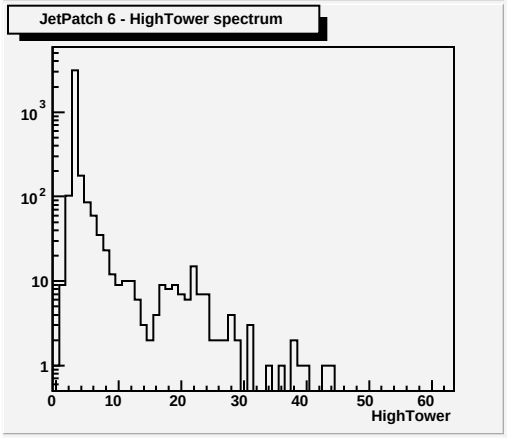

JetPatch 1 - HighTower spectrum
HighTower

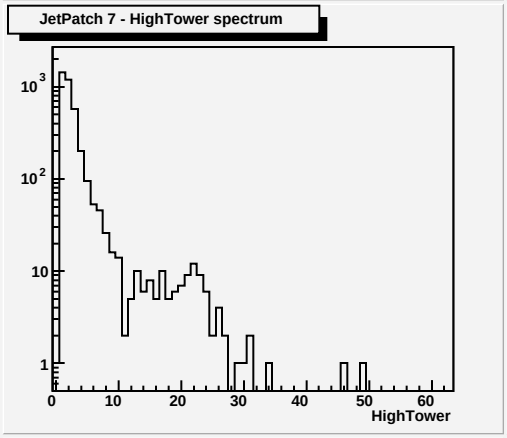

JetPatch 2 - HighTower spectrum
HighTower

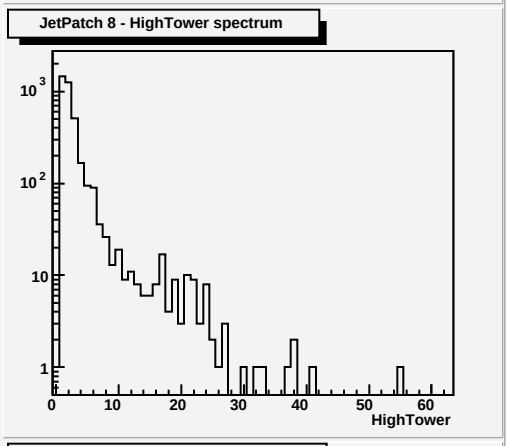

JetPatch 3 - HighTower spectrum
HighTower

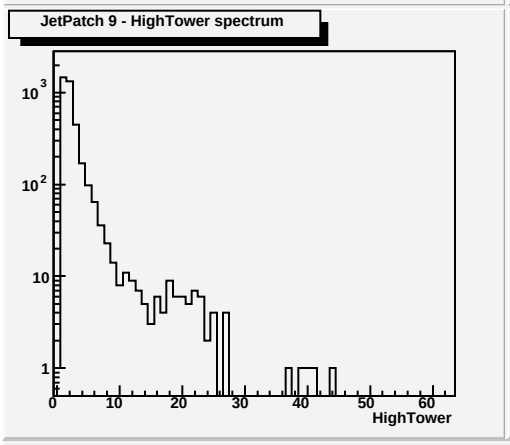

JetPatch 4 - HighTower spectrum
HighTower

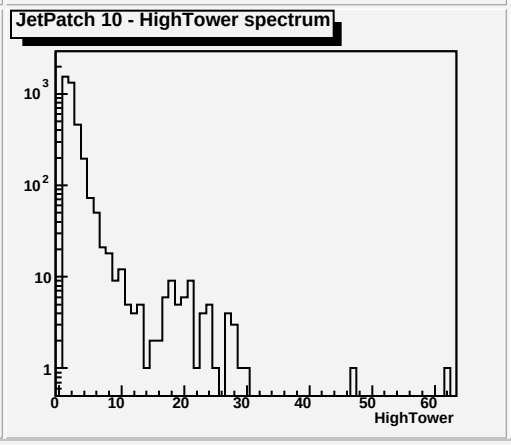

JetPatch 5 - HighTower spectrum
HighTower

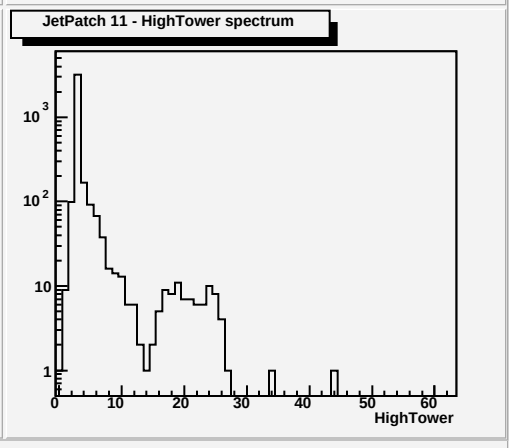

JetPatch 6 - HighTower spectrum
HighTower

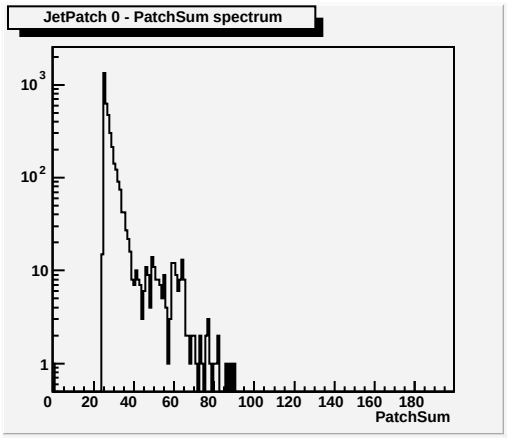

JetPatch 7 - HighTower spectrum
HighTower

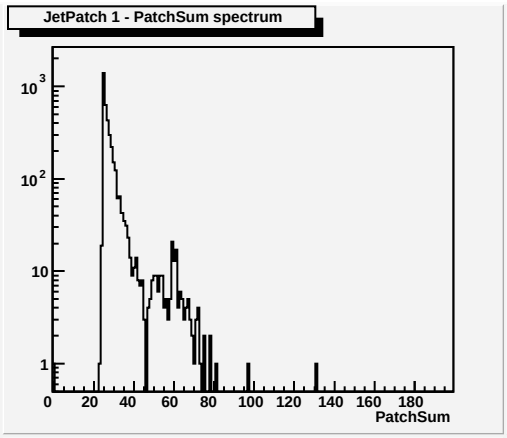

JetPatch 8 - HighTower spectrum
HighTower

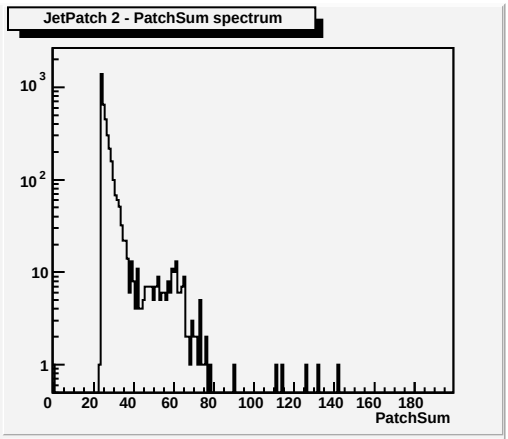

JetPatch 9 - HighTower spectrum
HighTower

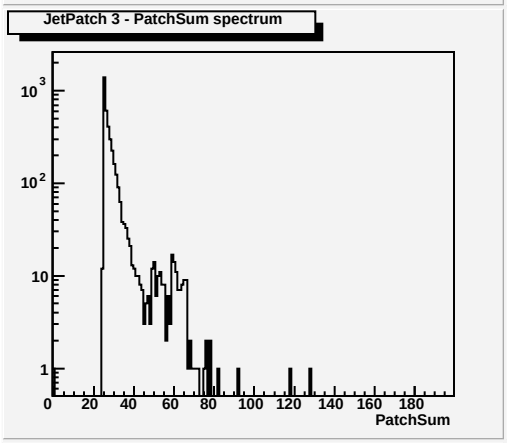

JetPatch 10 - HighTower spectrum
HighTower

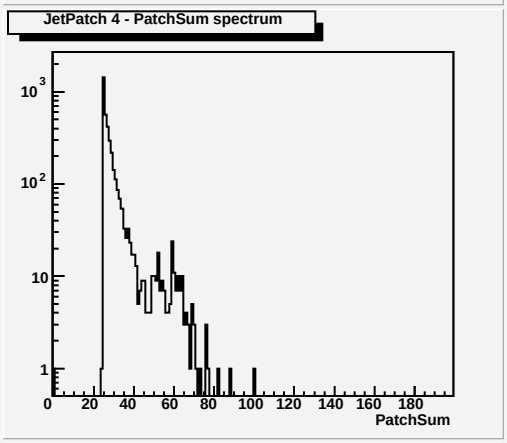

JetPatch 11 - HighTower spectrum
HighTower

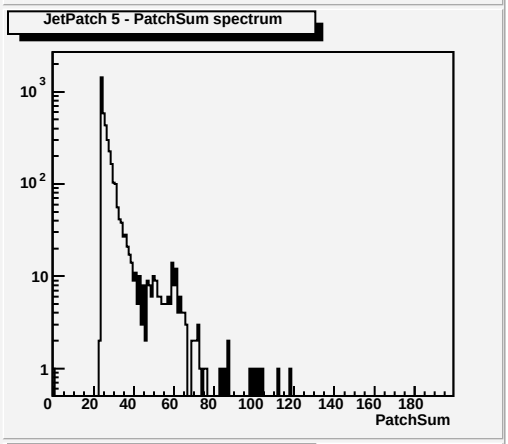

JetPatch 0 - PatchSum spectrum
PatchSum

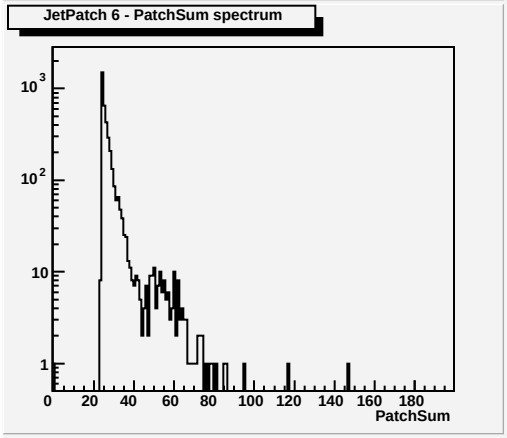

JetPatch 1 - PatchSum spectrum
PatchSum

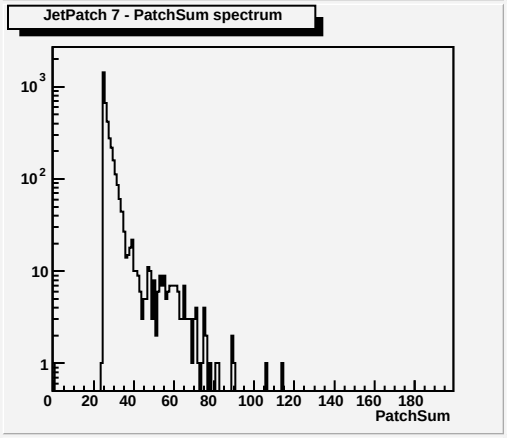

JetPatch 2 - PatchSum spectrum
PatchSum

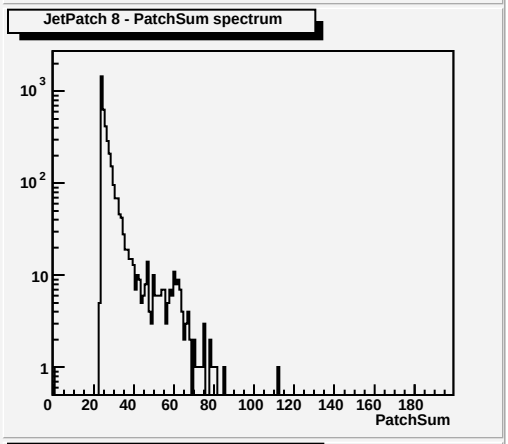

JetPatch 3 - PatchSum spectrum
PatchSum

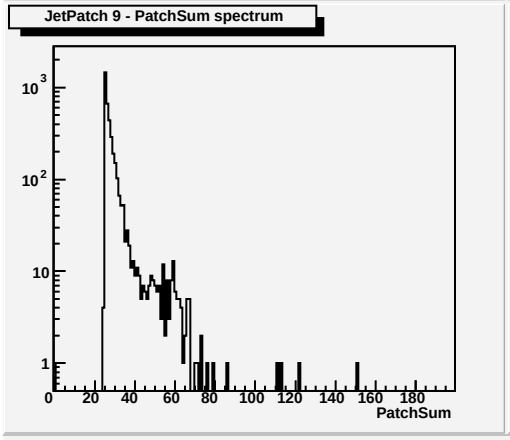

JetPatch 4 - PatchSum spectrum
PatchSum

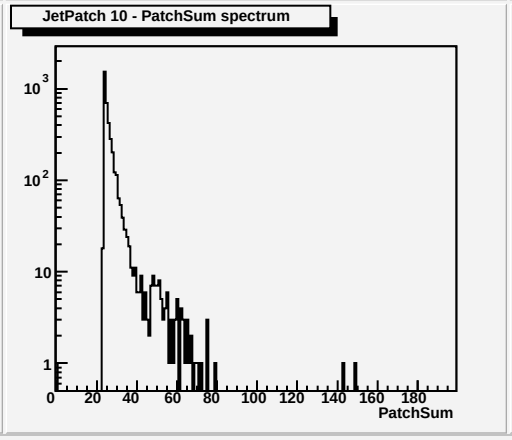

JetPatch 5 - PatchSum spectrum
PatchSum

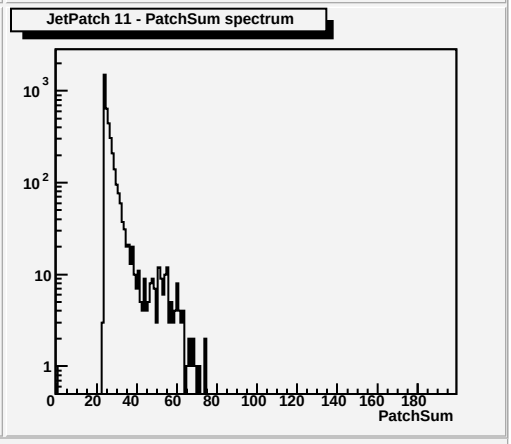

JetPatch 6 - PatchSum spectrum
PatchSum


JetPatch 7 - PatchSum spectrum
PatchSum

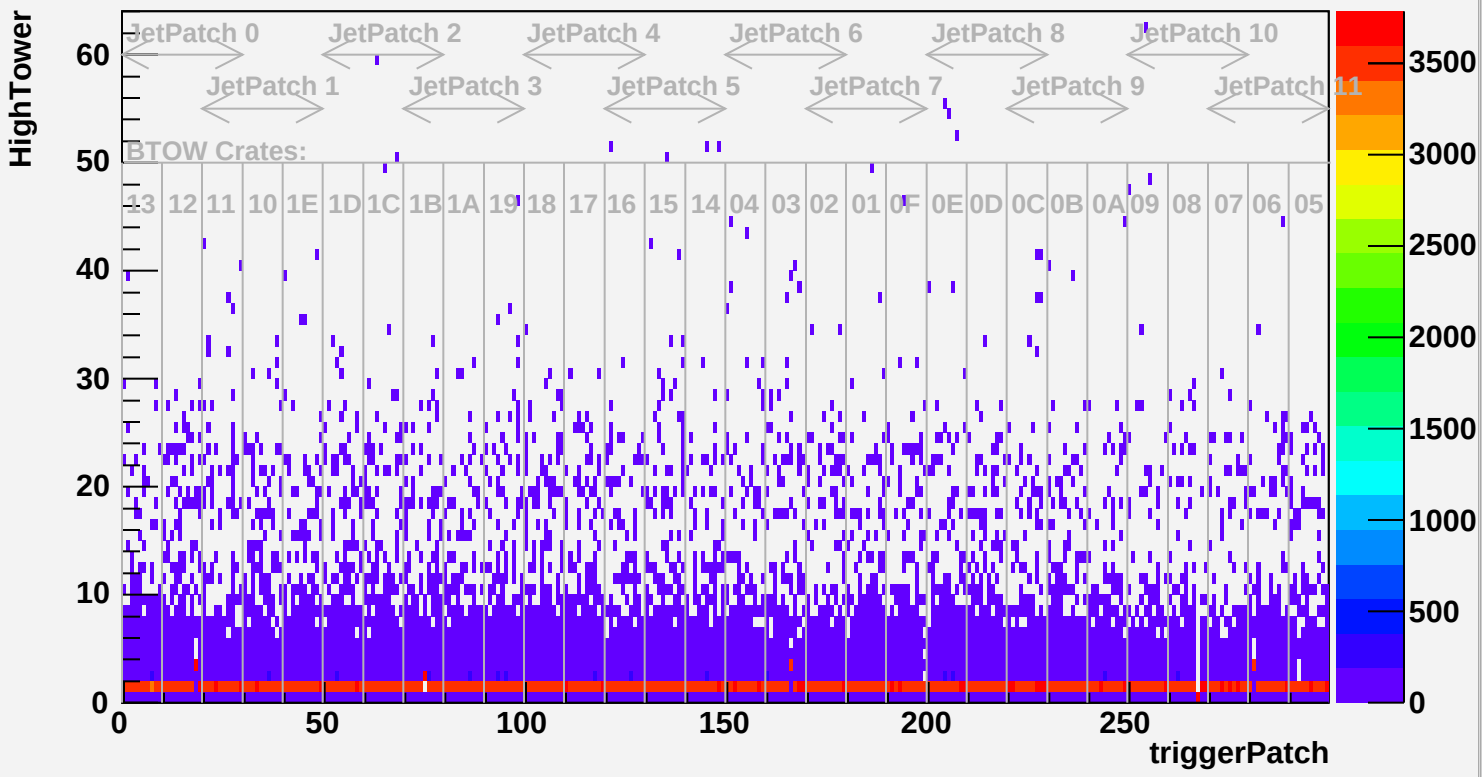

JetPatch 8 - PatchSum spectrum
PatchSum


JetPatch 9 - PatchSum spectrum
PatchSum

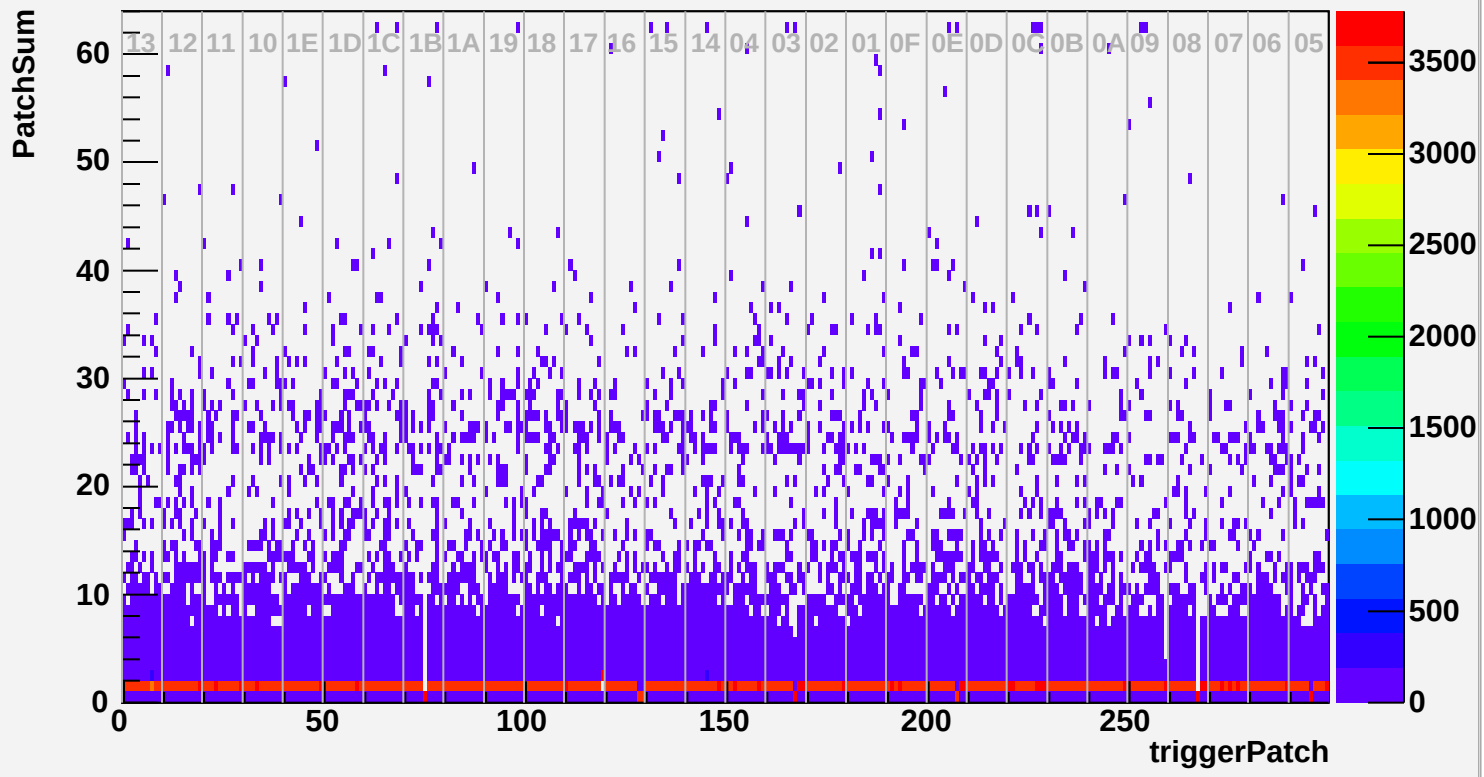

JetPatch 10 - PatchSum spectrum
PatchSum


JetPatch 11 - PatchSum spectrum
PatchSum

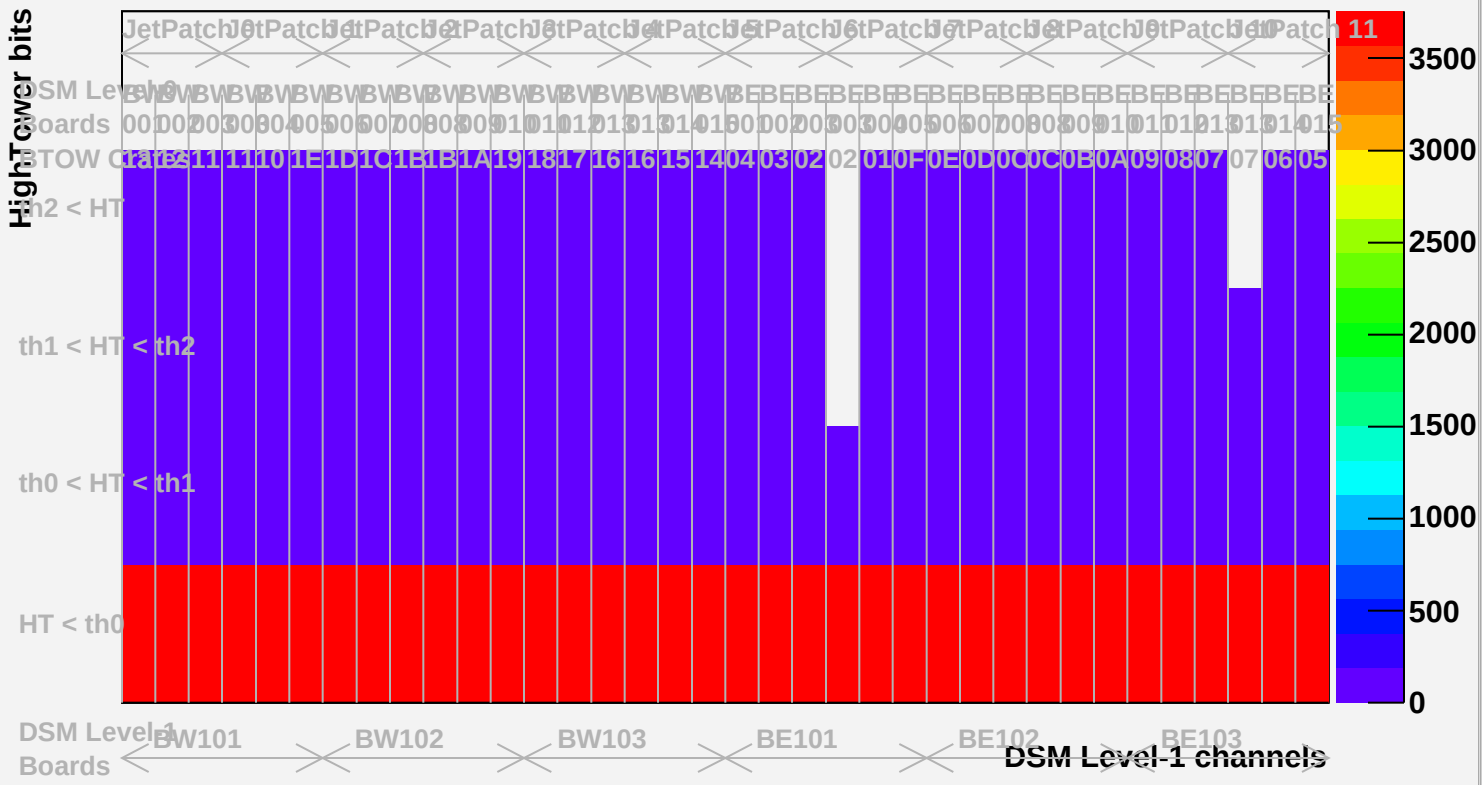
BEMC DSM L0 Input - HighTower



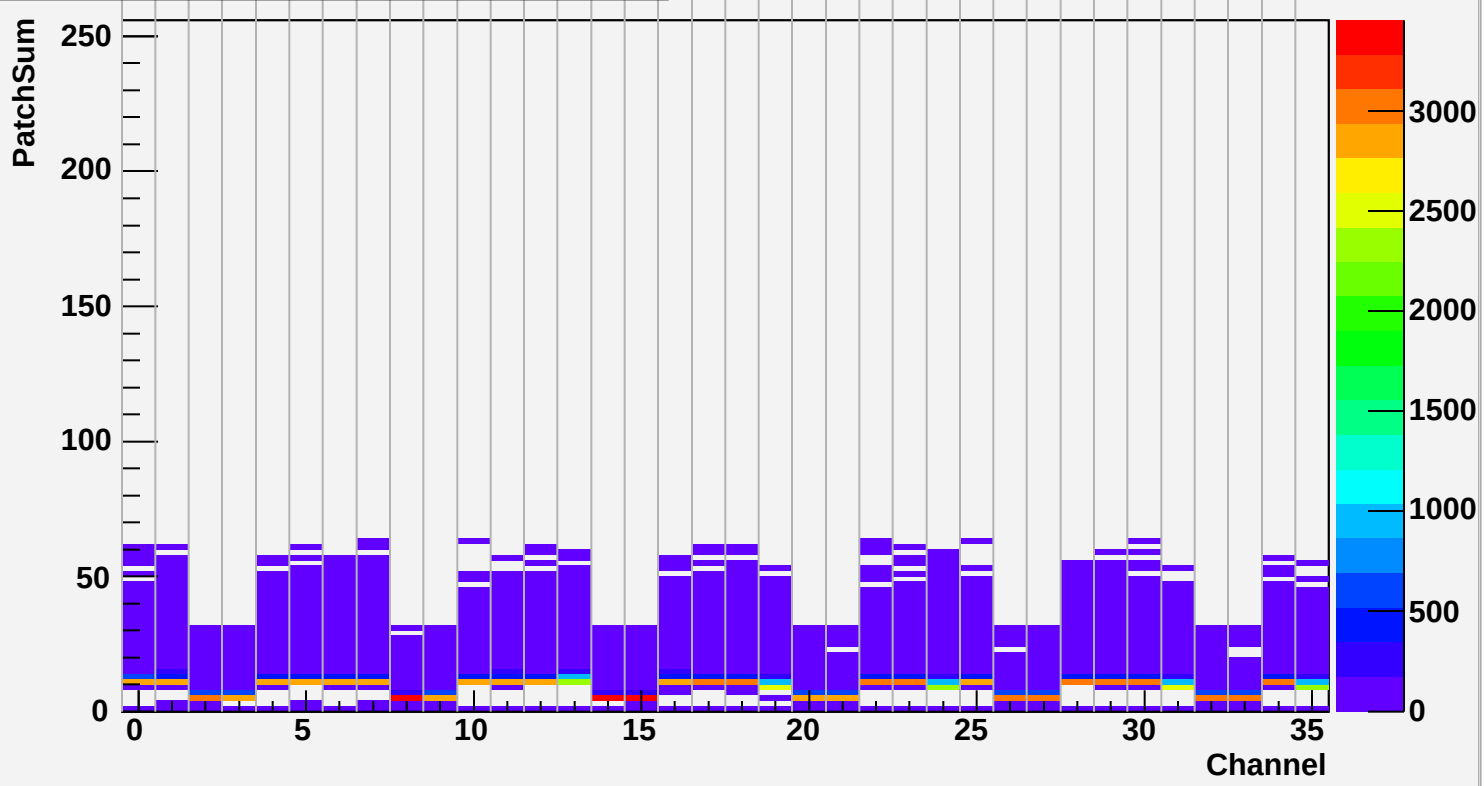
BEMC DSM L0 Input - PatchSum

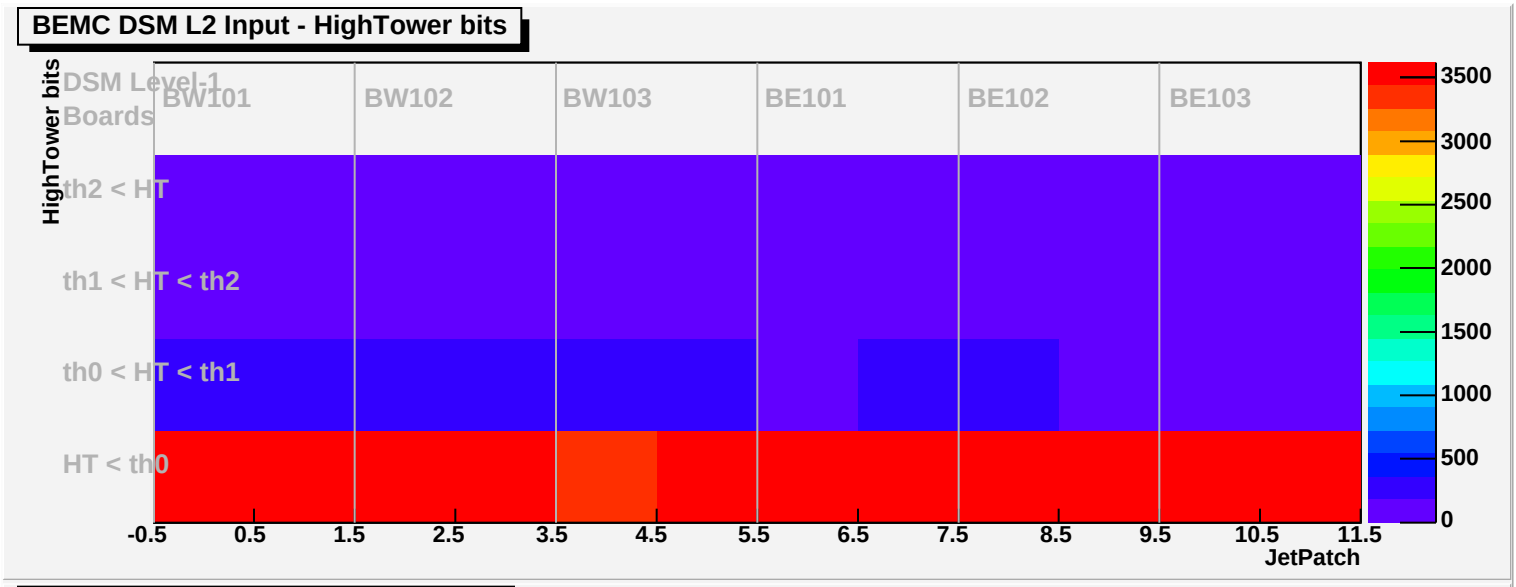


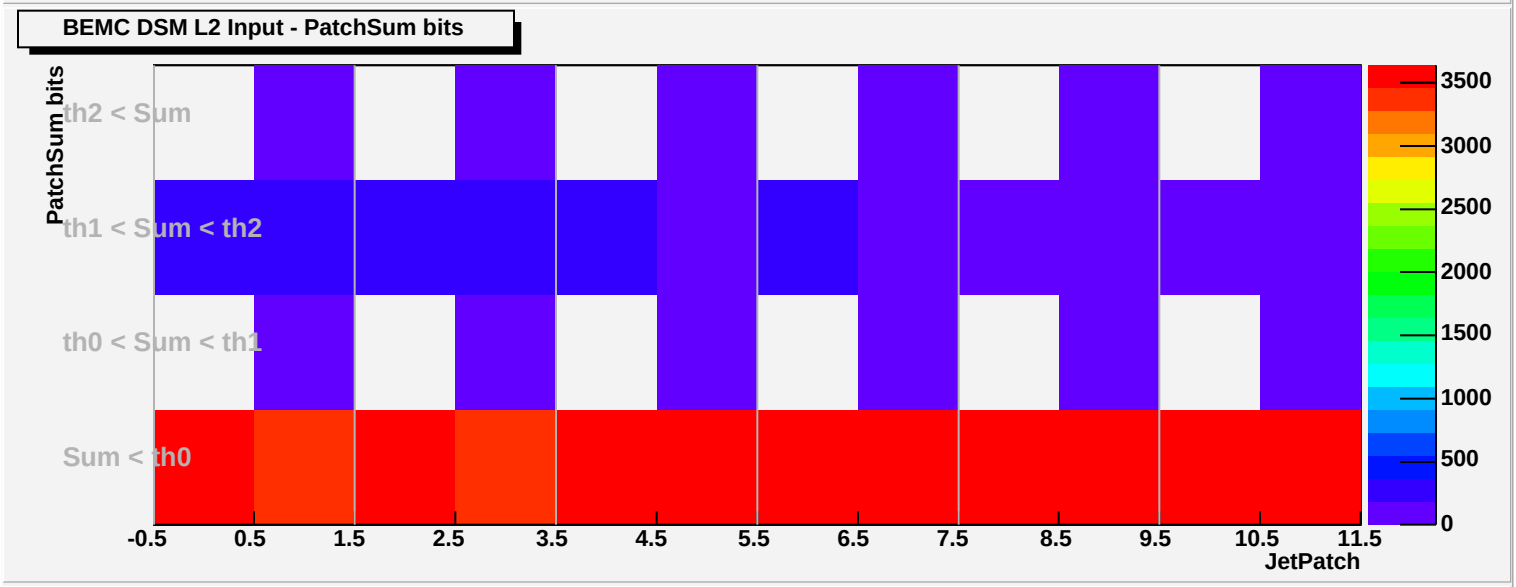
BEMC DSM L1 Input - HighTower bits

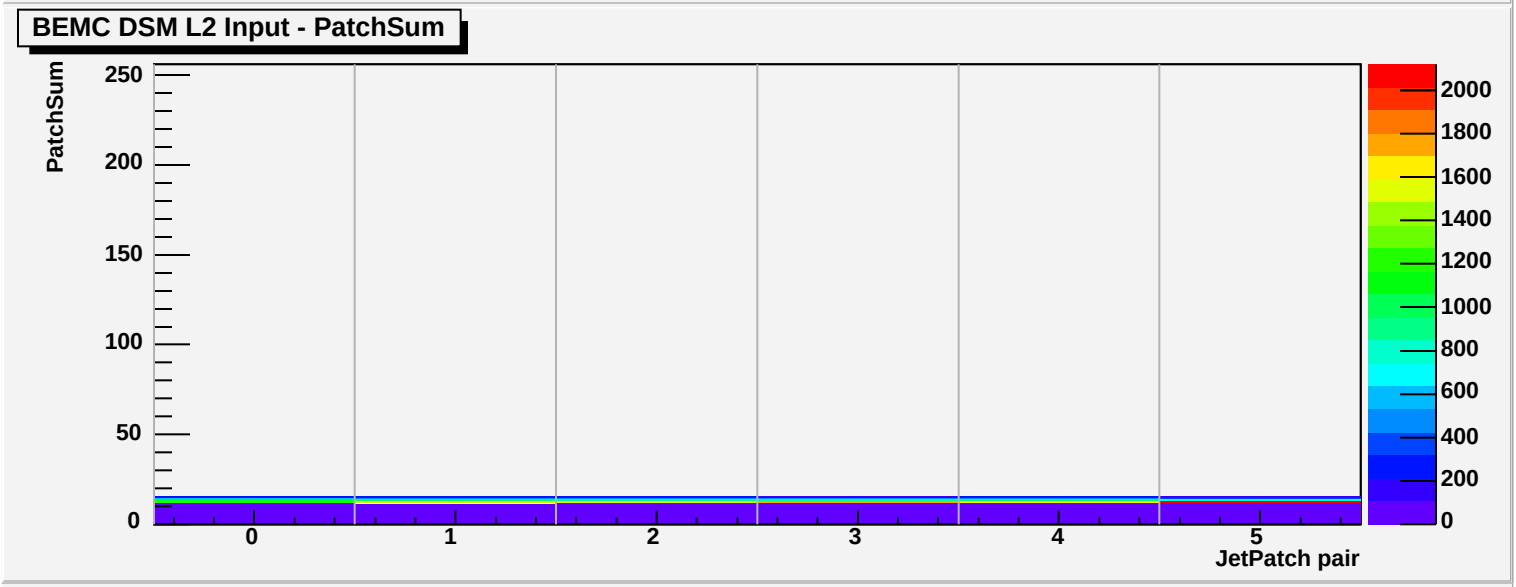


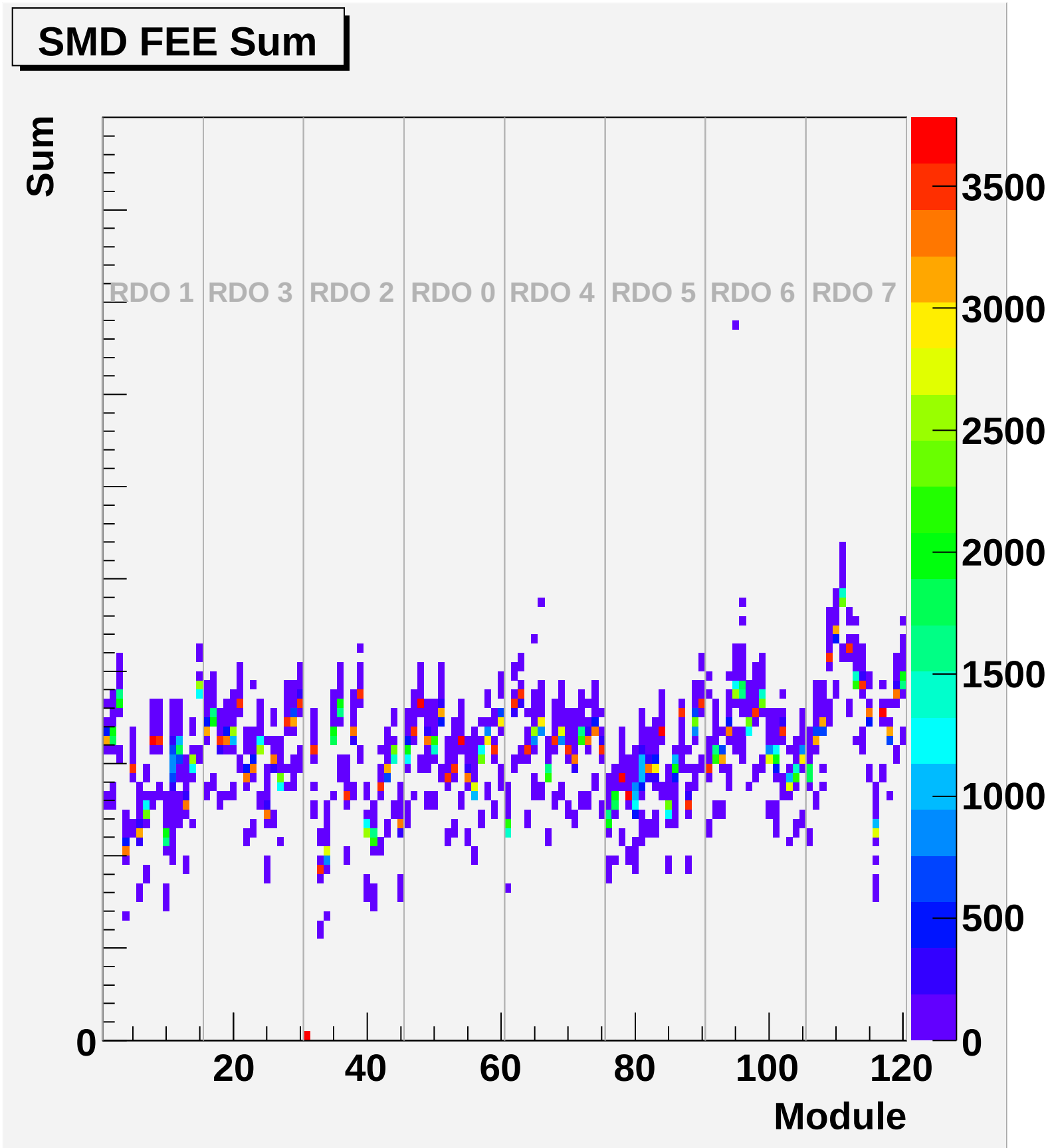
BEMC DSM L1 Input - PatchSum

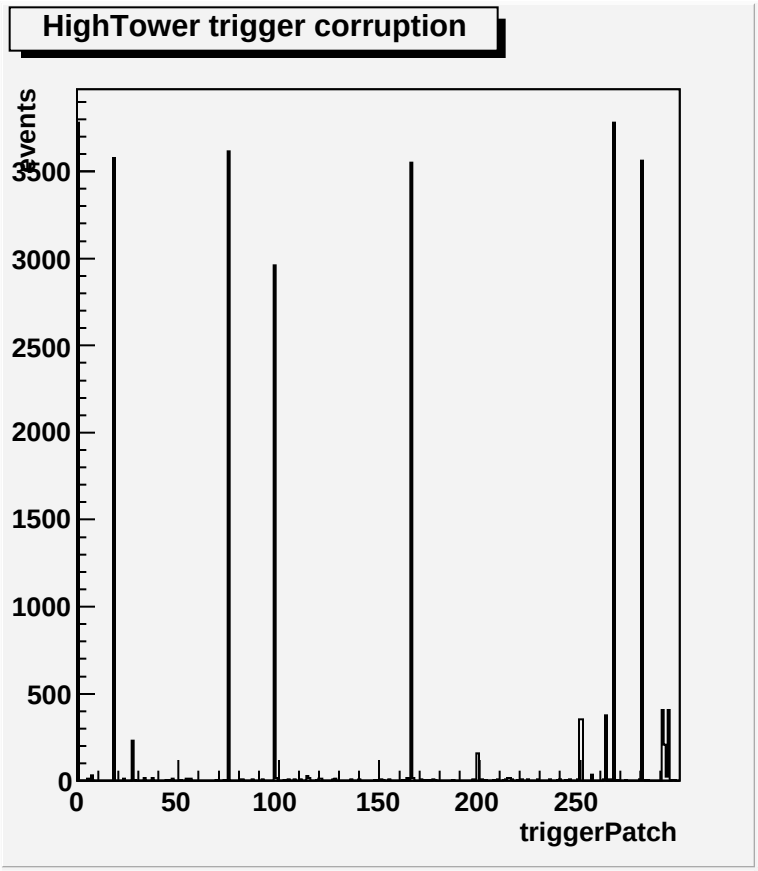


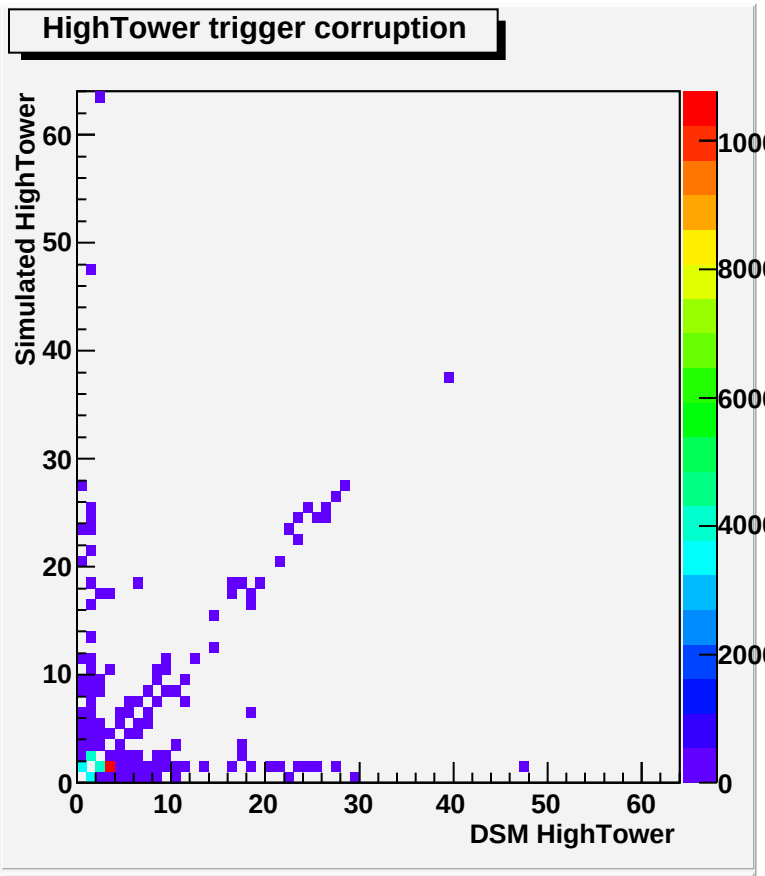

BEMC DSM L2 Input - HighTower bits
HighTower bits
DSM Level-1 Boards
BW101
BW102
BW103
BE101
BE102
BE103
th2 < HT
th1 < HT < th2
th0 < HT < th1
HT < th0
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
3500 3000 2500 2000 1500 1000 500 0

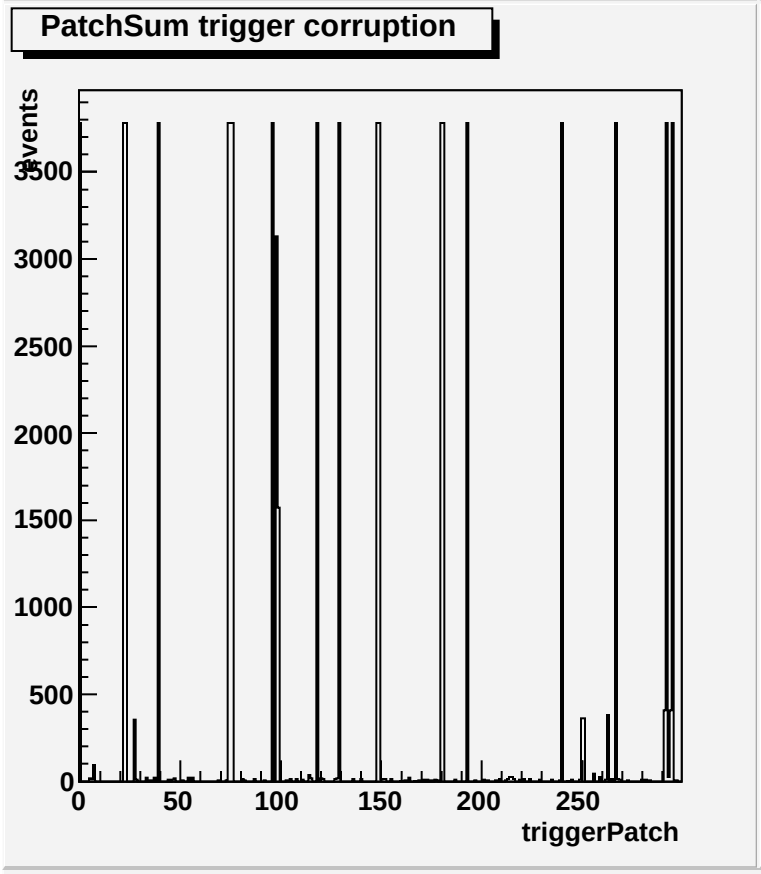

BEMC DSM L2 Input - PatchSum bits
PatchSum bits
th2 < Sum
th1 < Sum < th2
th0 < Sum < th1
Sum < th0
-0.5 0.5 1.5 2.5 3.5 4.5 5.5 6.5 7.5 8.5 9.5 10.5 11.5
JetPatch
3500 3000 2500 2000 1500 1000 500 0

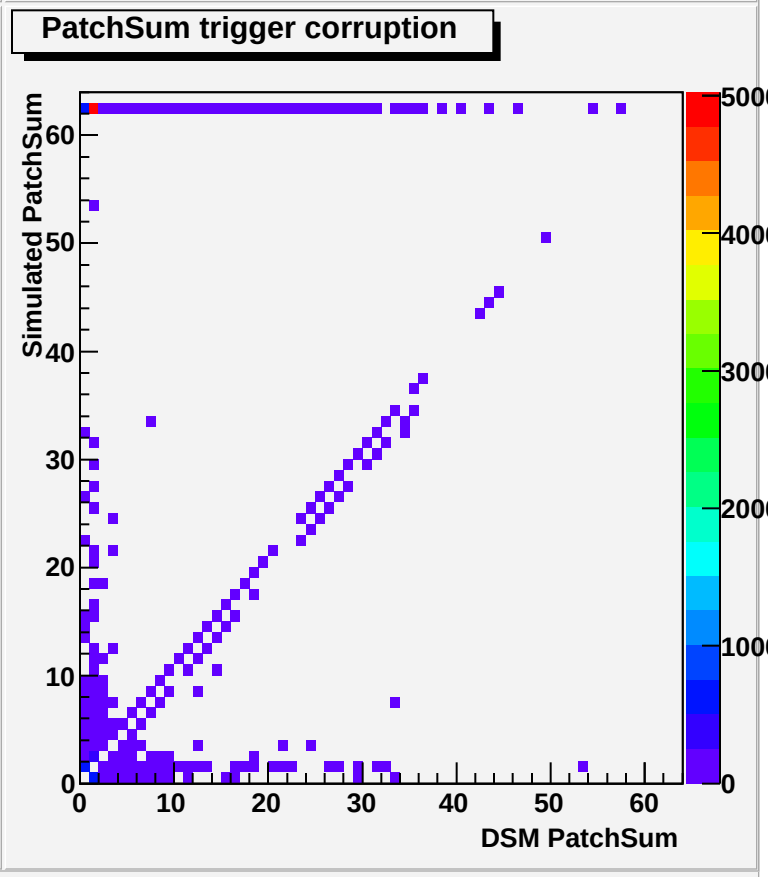

BEMC DSM L2 Input - PatchSum
PatchSum
250 200 150 100 50 0
0 1 2 3 4 5
JetPatch pair
2000 1800 1600 1400 1200 1000 800 600 400 200 0

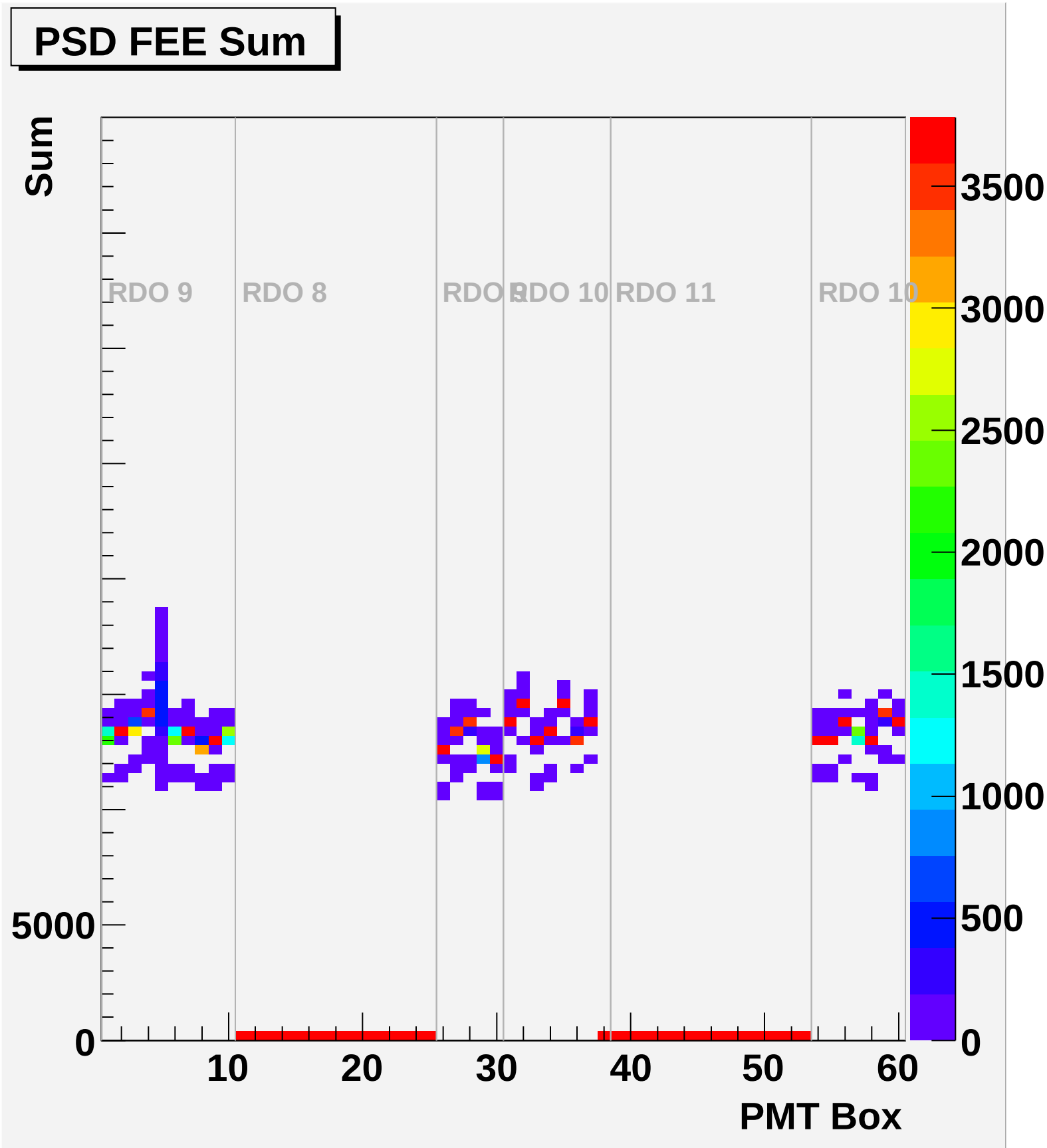

SMD FEE Sum
Sum
RDO 1
RDO 3
RDO 2
RDO 0
RDO 4
RDO 5
RDO 6
RDO 7
0
20
40
60
80
100
120
Module
3500
3000
2500
2000
1500
1000
500
0


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
3500
3000
2500
2000
1500
1000
500
0