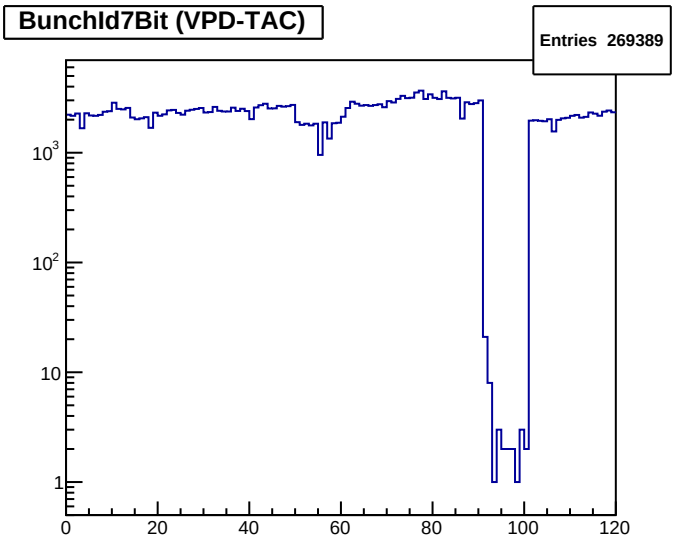
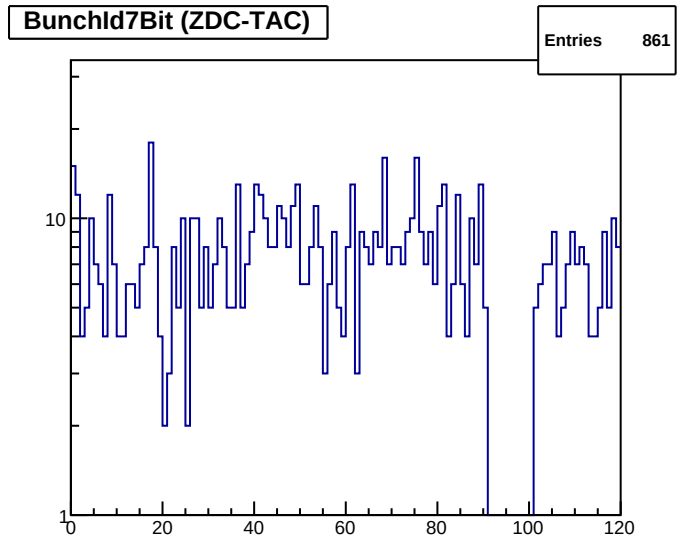
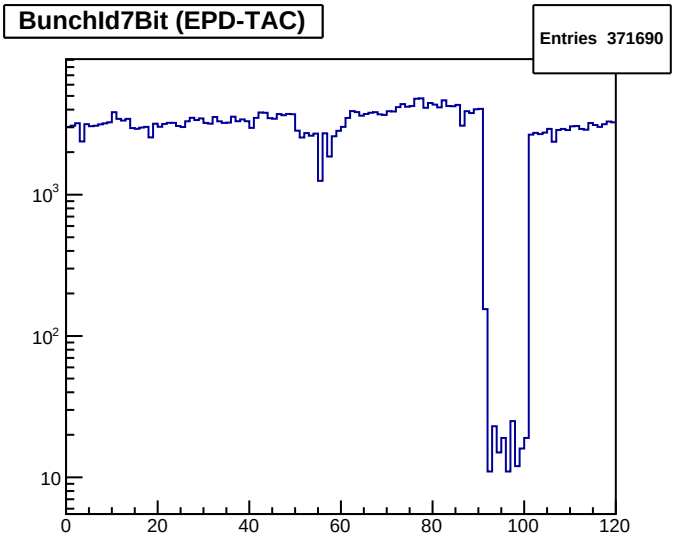
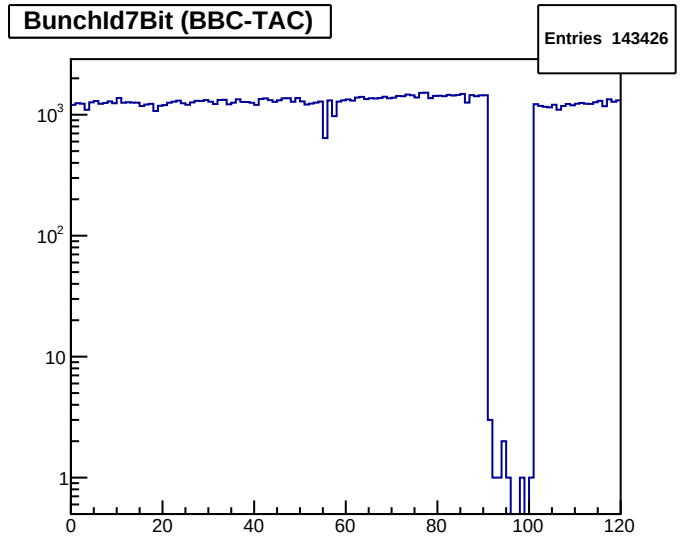
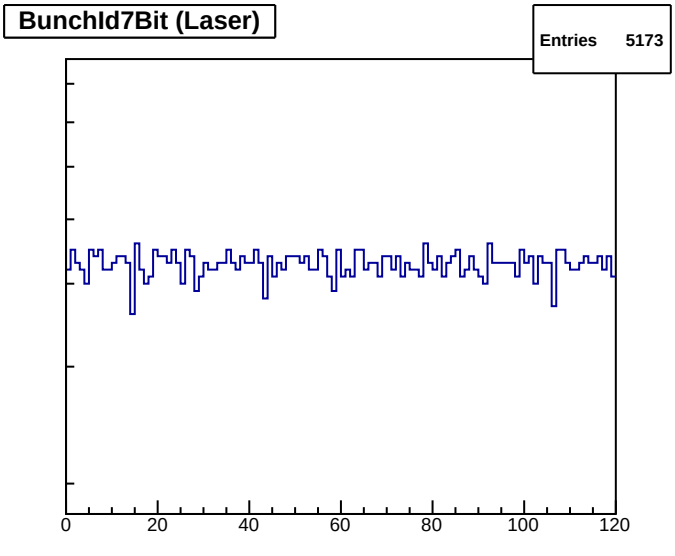
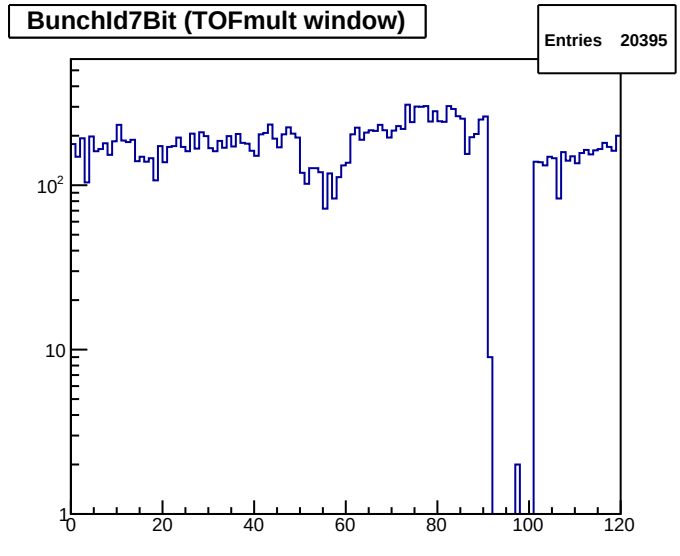

BunchId7Bit (VPD-TAC)
Entries 269389
10^3
10^2
10
1
0
20
40
60
80
100
120

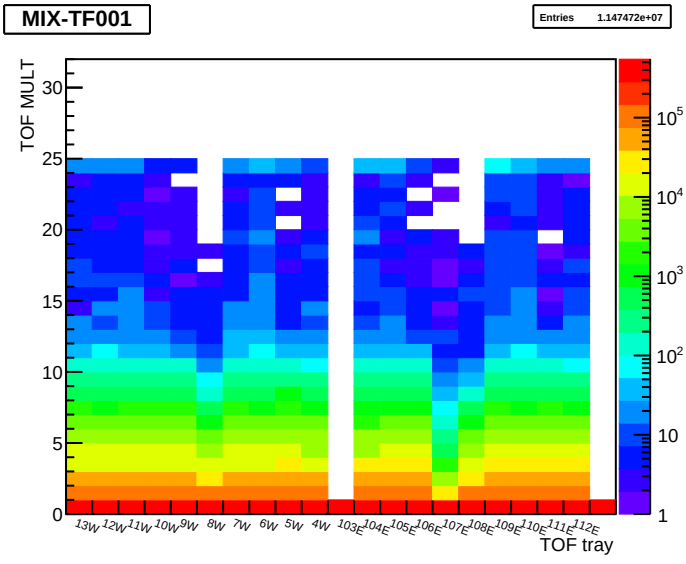

BunchId7Bit (ZDC-TAC)
Entries 861
10
1
0
20
40
60
80
100
120

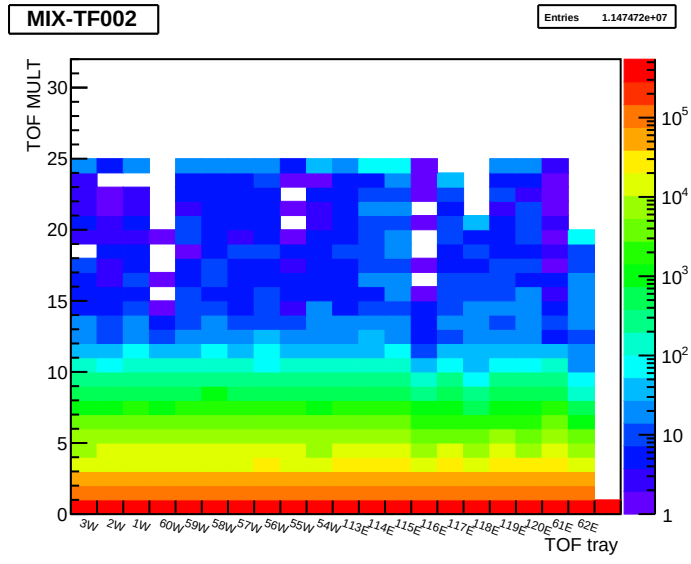

BunchId7Bit (EPD-TAC)
Entries 371690
10^3
10^2
10
0
20
40
60
80
100
120

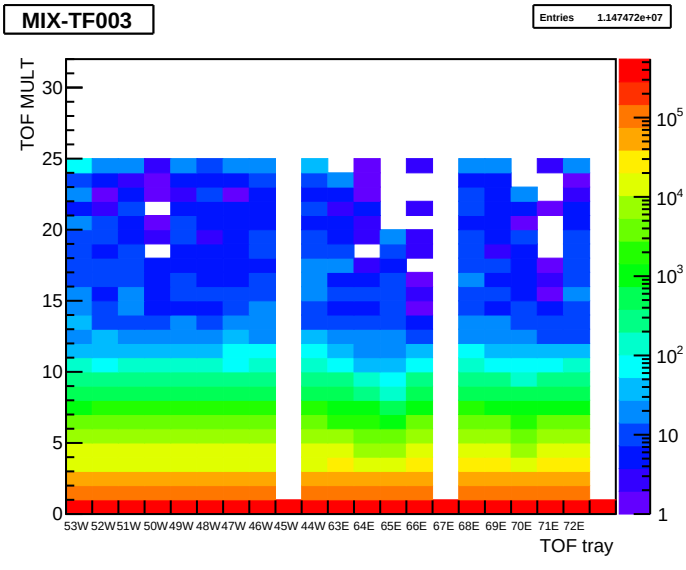

BunchId7Bit (BBC-TAC)
Entries 143426
10^3
10^2
10
1
0
20
40
60
80
100
120

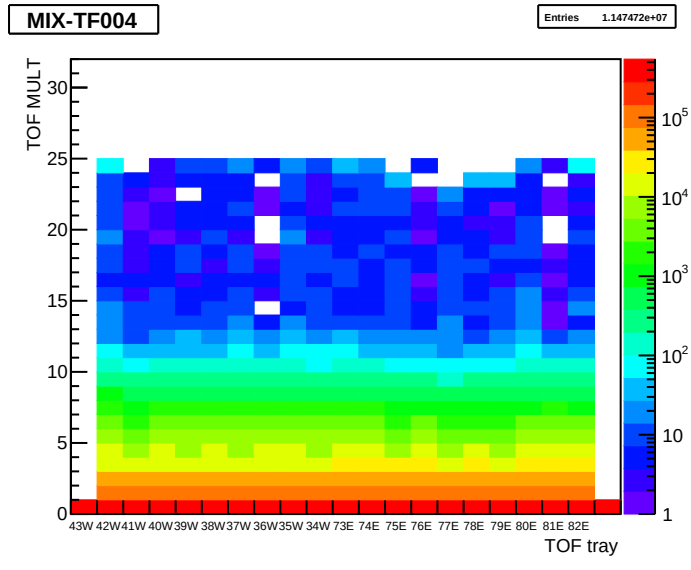

BunchId7Bit (Laser)
Entries 5173
0
20
40
60
80
100
120

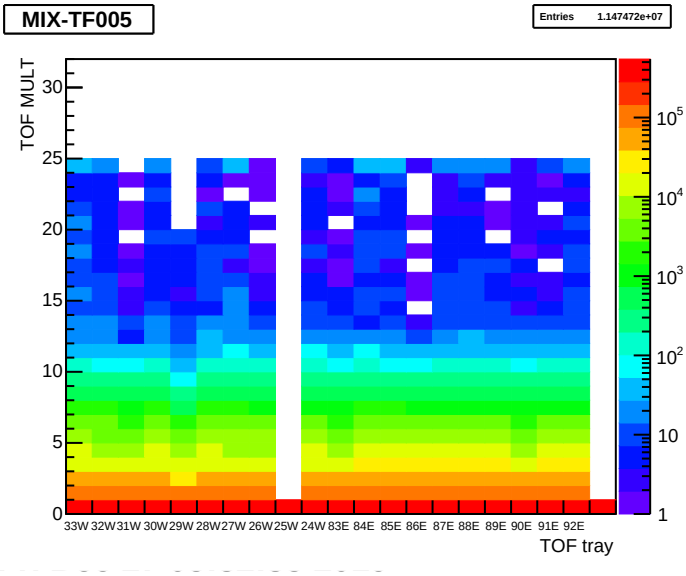

BunchId7Bit (TOFmult window)
Entries 20395
10^2
10
1
0
20
40
60
80
100
120

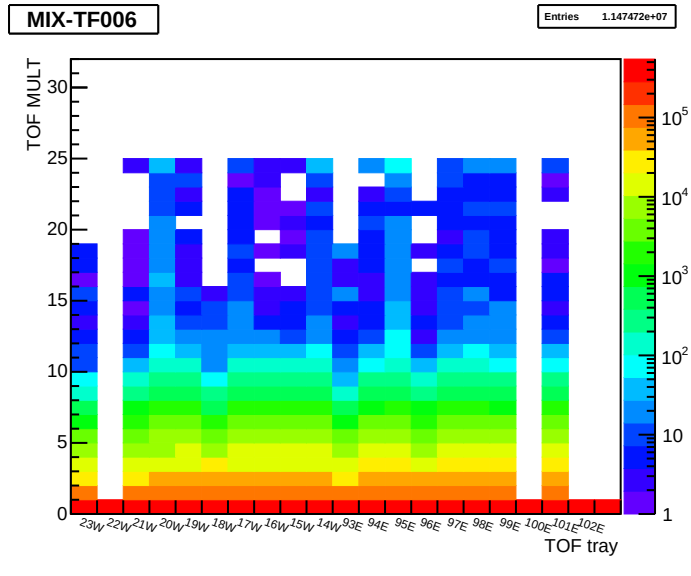

MIX-TF001
Entries 1.147472e+07
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

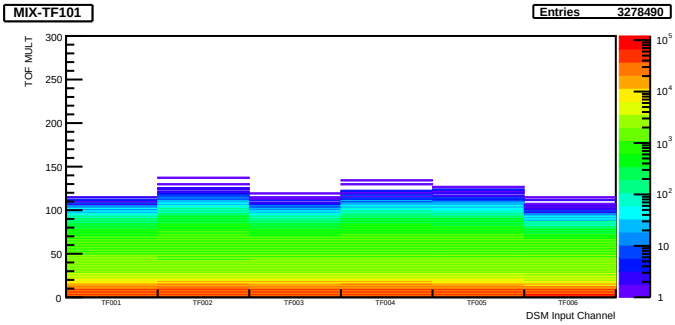

MIX-TF002
Entries 1.147472e+07
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

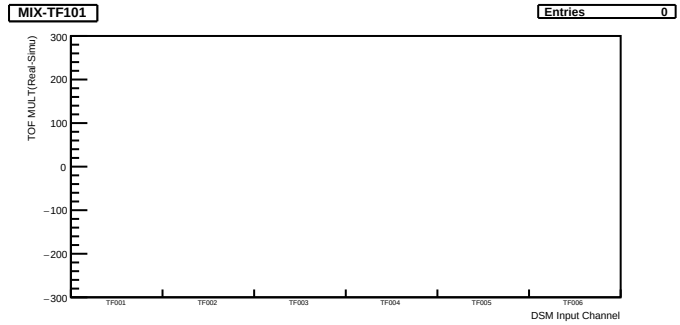

MIX-TF003
Entries 1.147472e+07
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

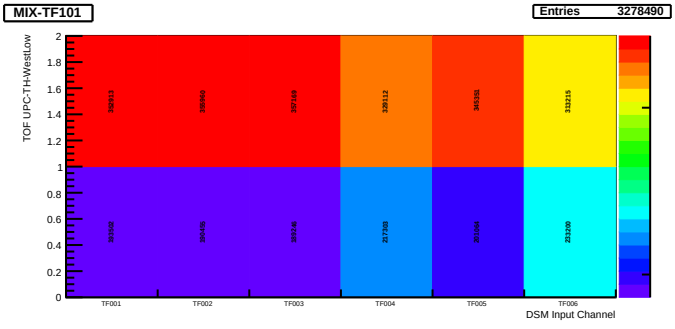

MIX-TF004
Entries 1.147472e+07
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

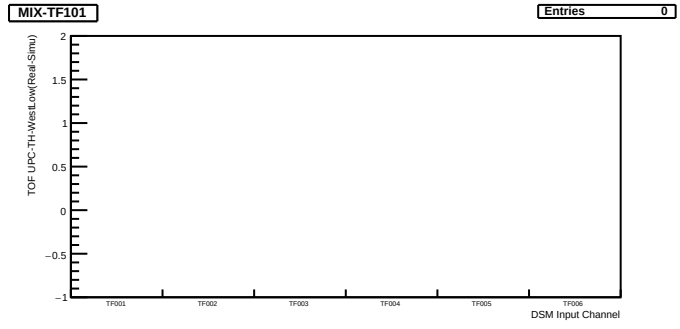

MIX-TF005
Entries 1.147472e+07
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

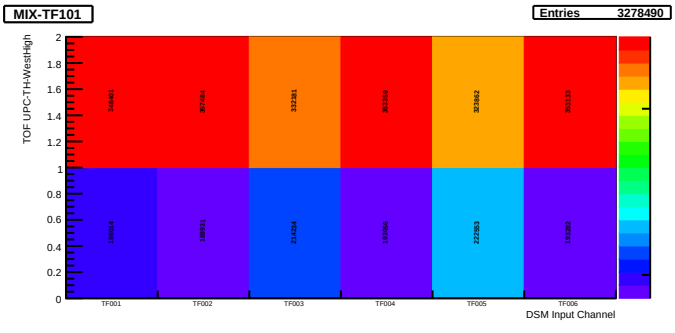

MIX-TF006
Entries 1.147472e+07
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

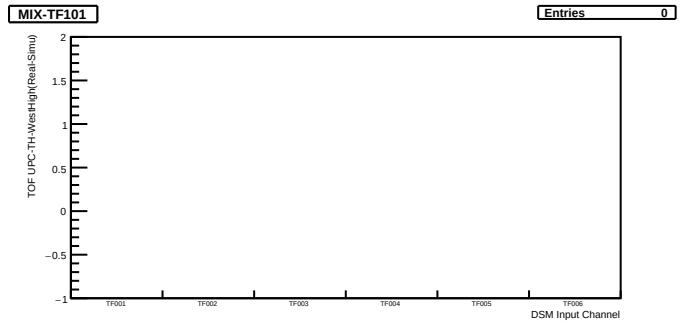

MIX-TF101
Entries 3278490
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

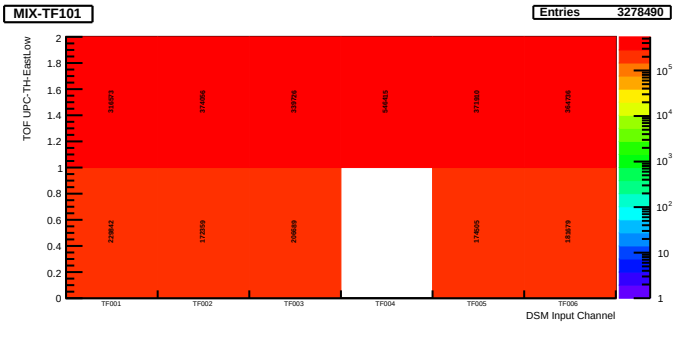

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

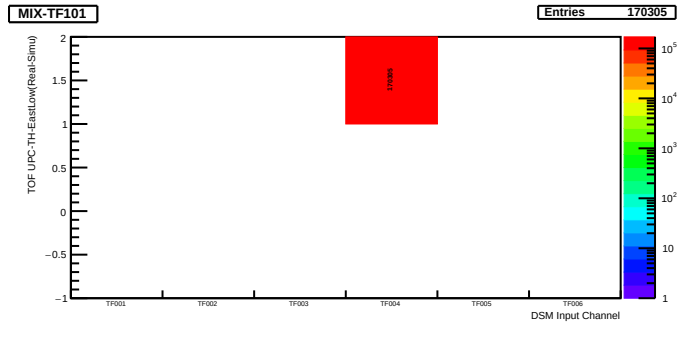

MIX-TF101
Entries 3278490
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

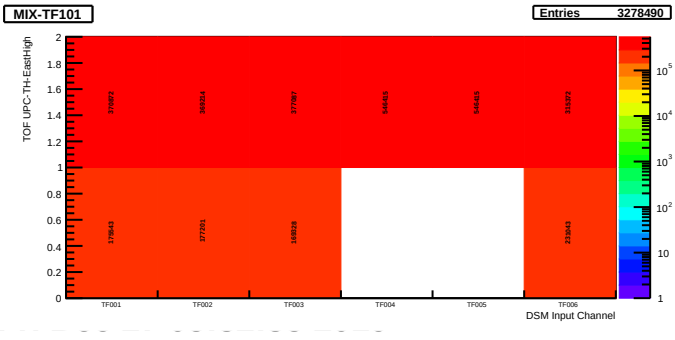

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

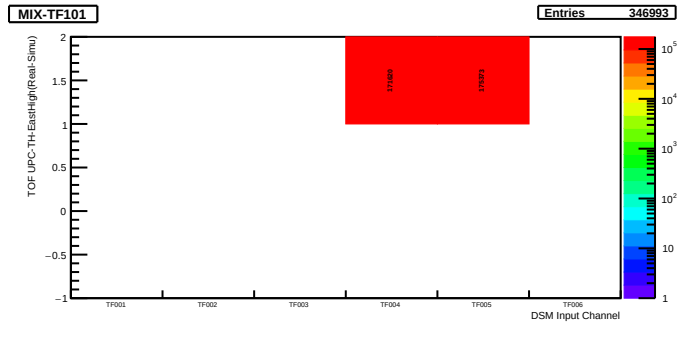

MIX-TF101
Entries 3278490
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

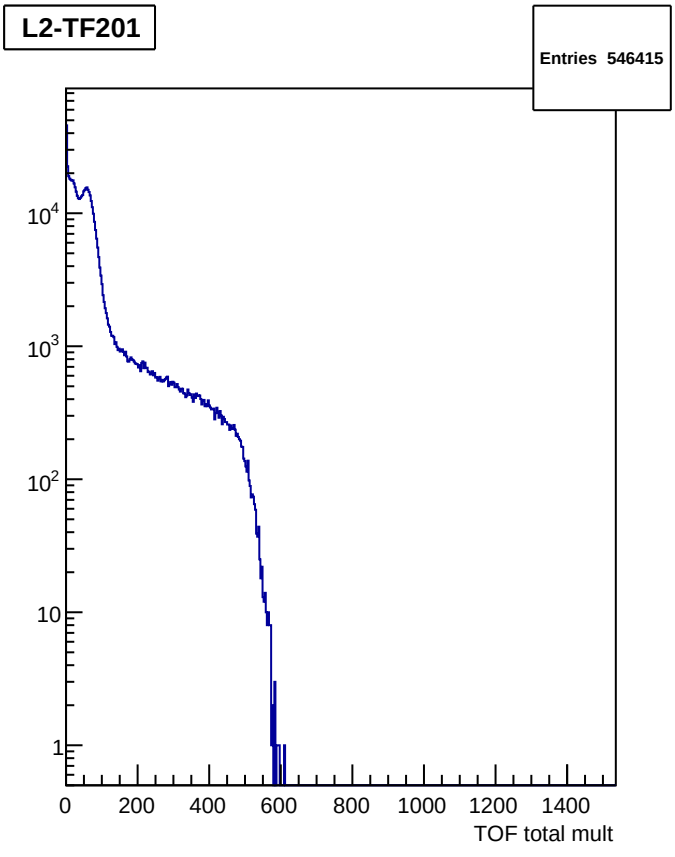

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

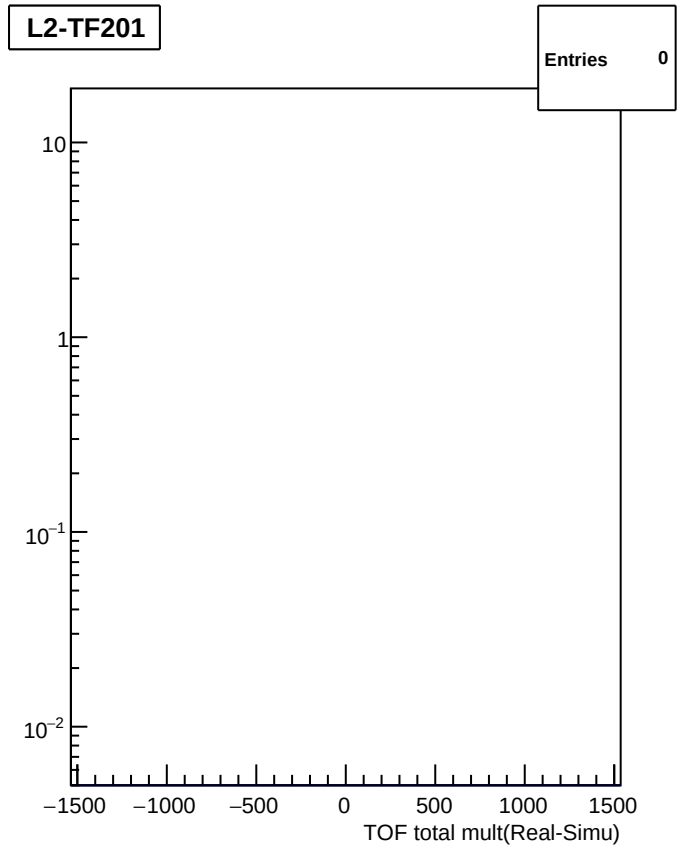

MIX-TF101
Entries 3278490
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

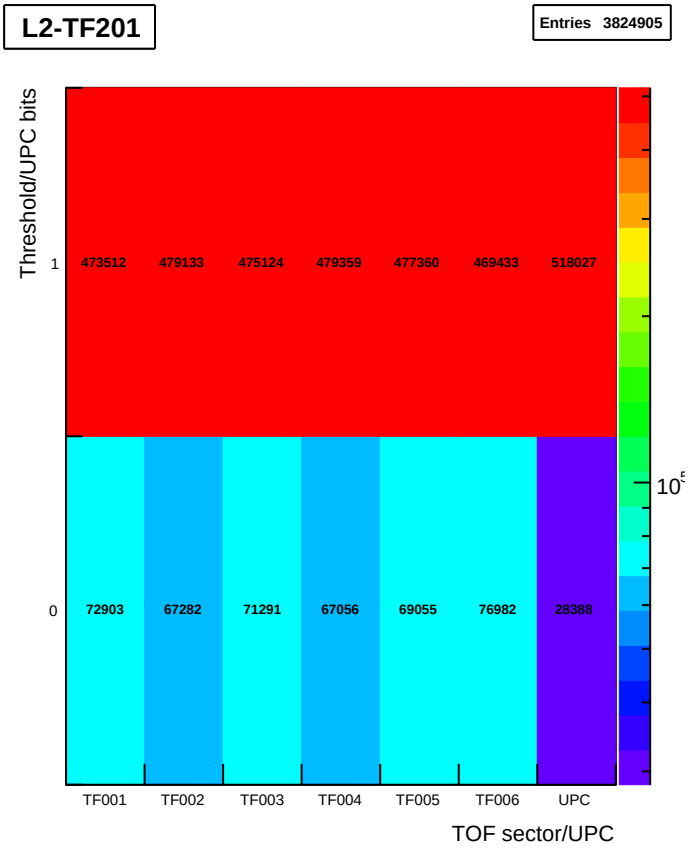

MIX-TF101
Entries 170305
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

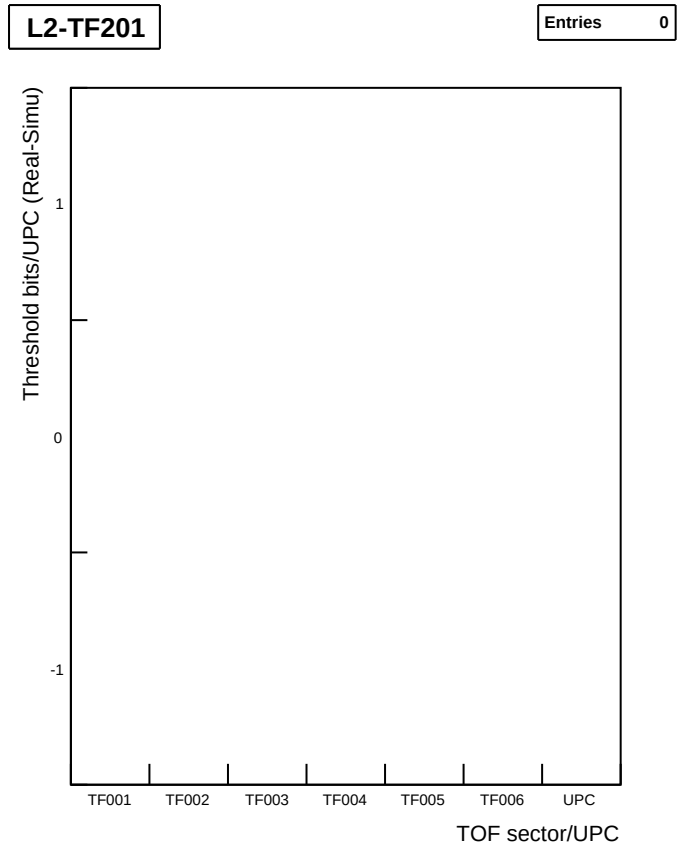

MIX-TF101
Entries 3278490
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

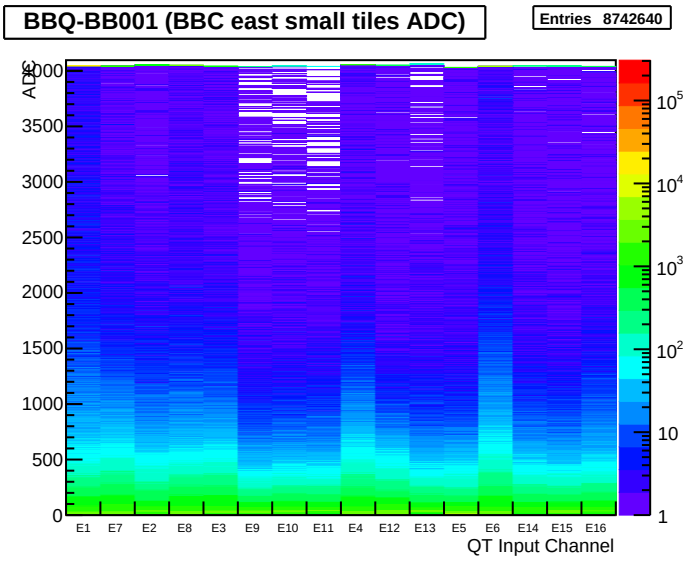

MIX-TF101
Entries 346993
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

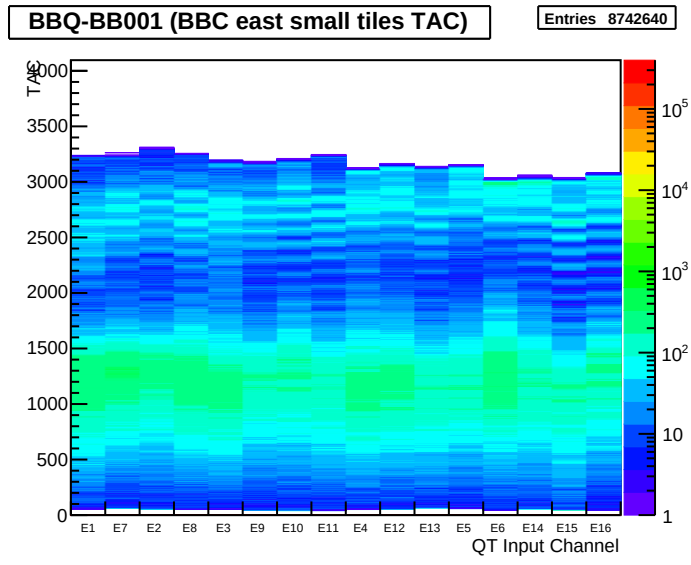

L2-TF201
Entries 546415
TOF total mult

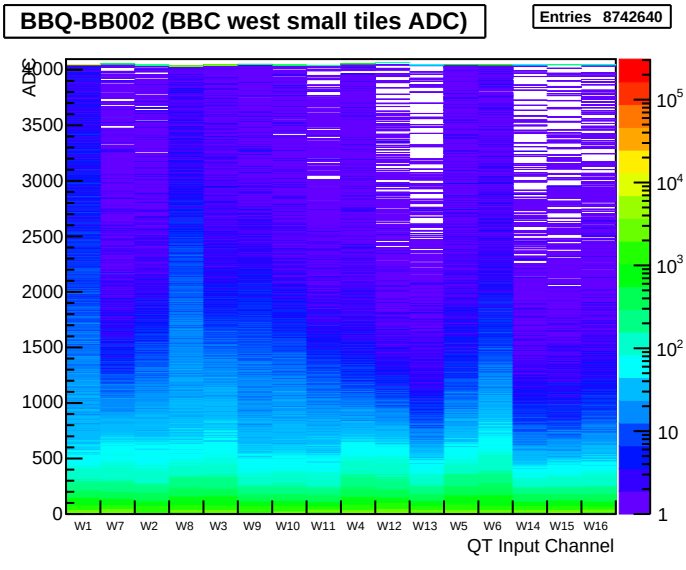

L2-TF201
Entries 0
TOF total mult(Real-Simu)

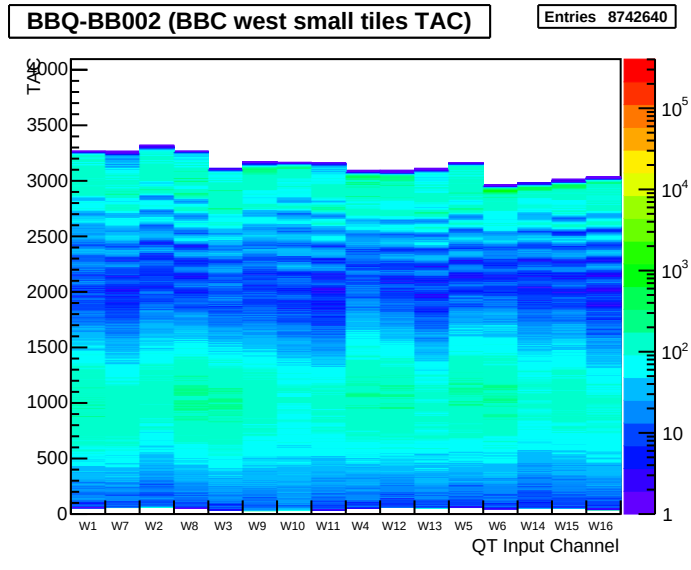

L2-TF201
Entries 3824905
Threshold/UPC bits
473512
479133
475124
479359
477360
469433
518027
72903
67282
71291
67056
69055
76982
28388
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

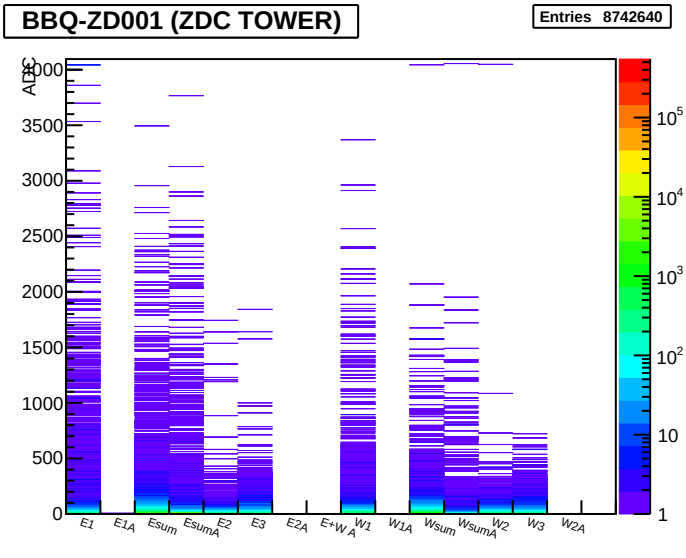

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

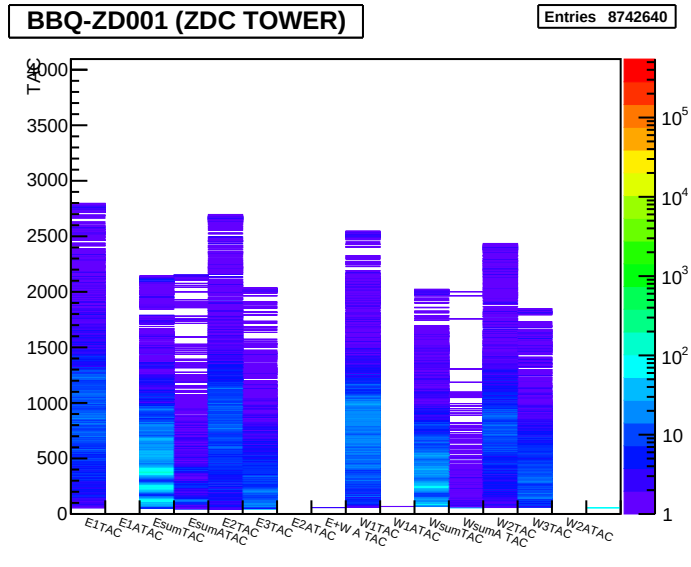

BBQ-BB001 (BBC east small tiles ADC)
Entries 8742640
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

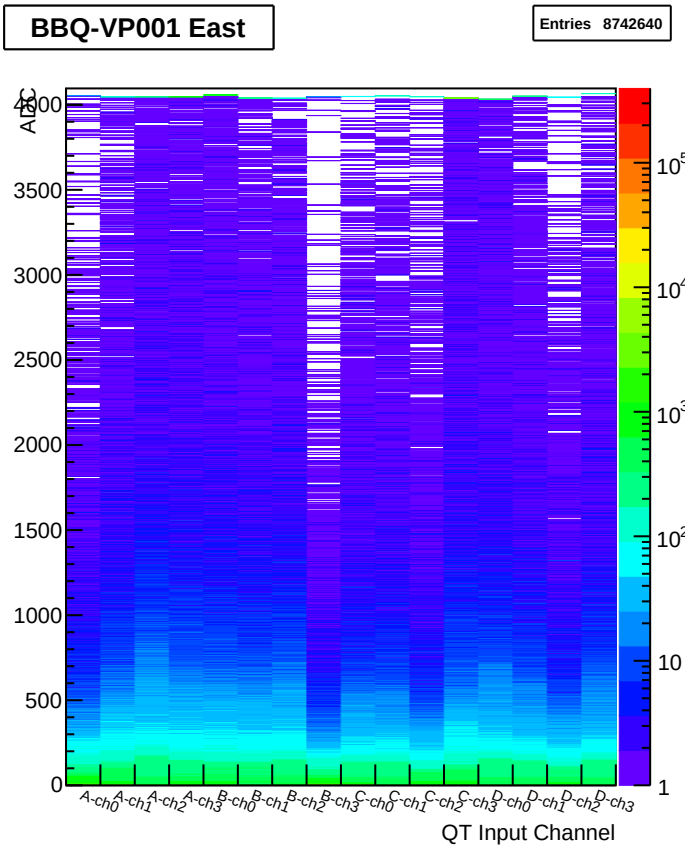

BBQ-BB001 (BBC east small tiles TAC)
Entries 8742640
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

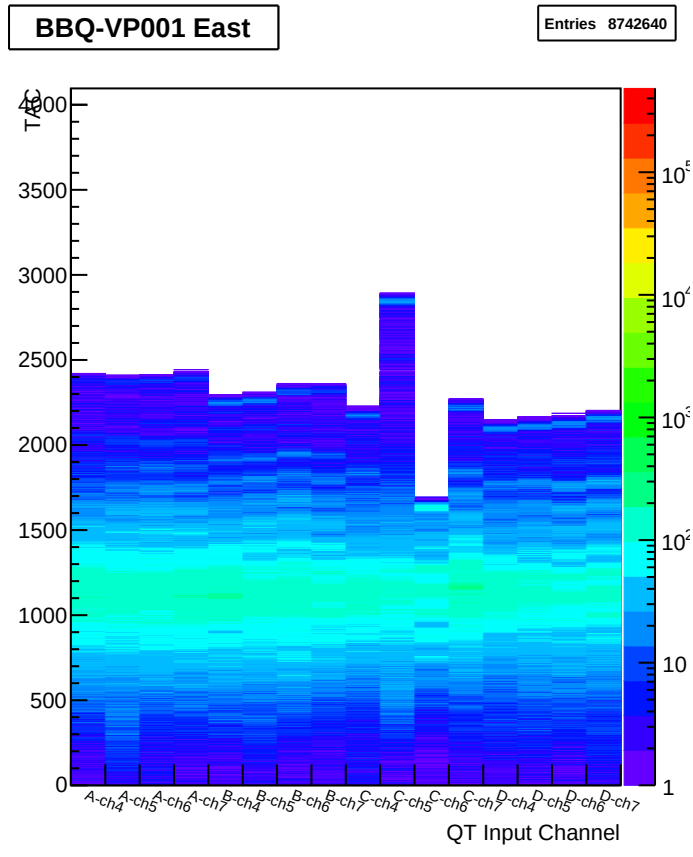

BBQ-BB002 (BBC west small tiles ADC)
Entries 8742640
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

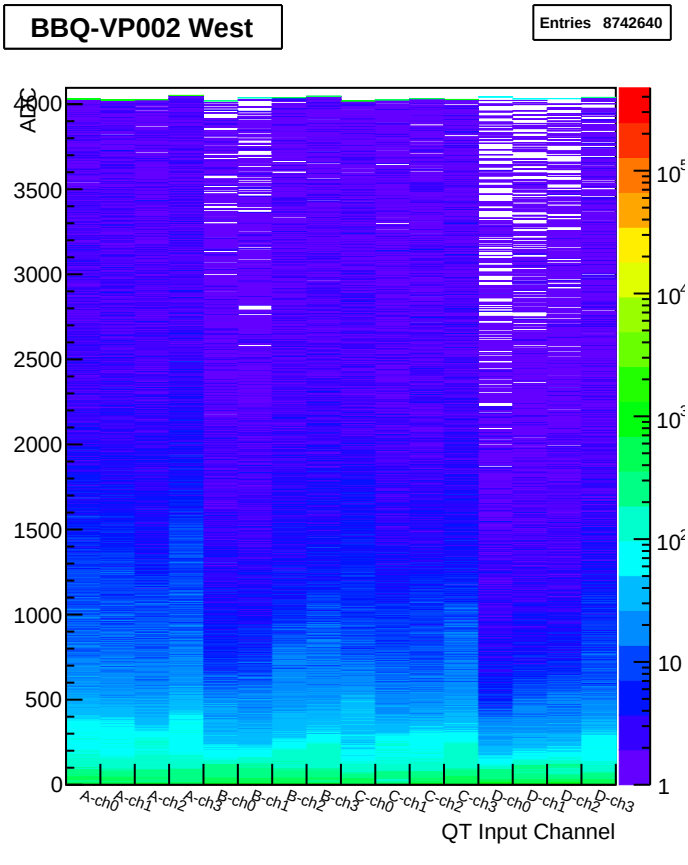

BBQ-BB002 (BBC west small tiles TAC)
Entries 8742640
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

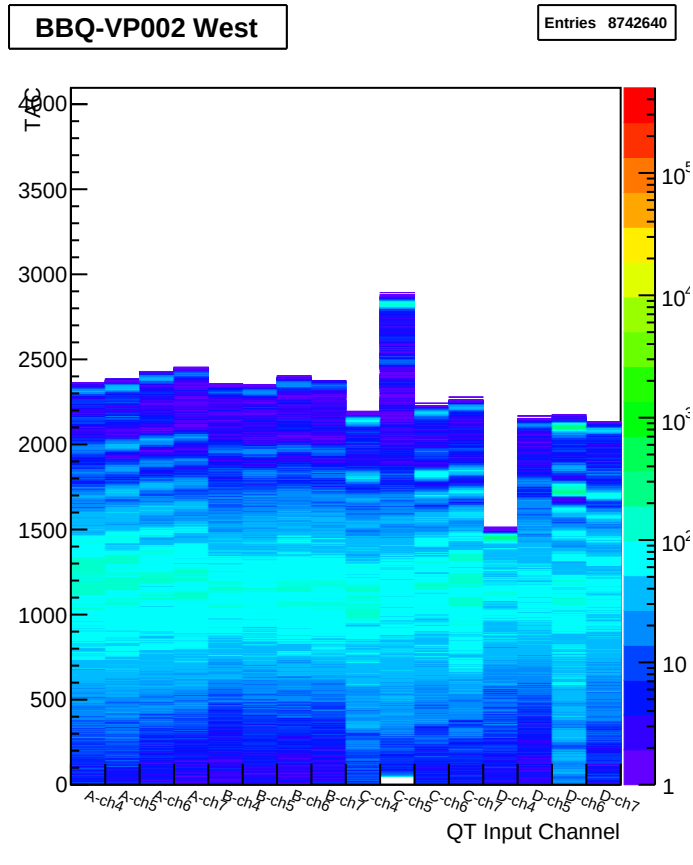

BBQ-ZD001 (ZDC TOWER)
Entries 8742640
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

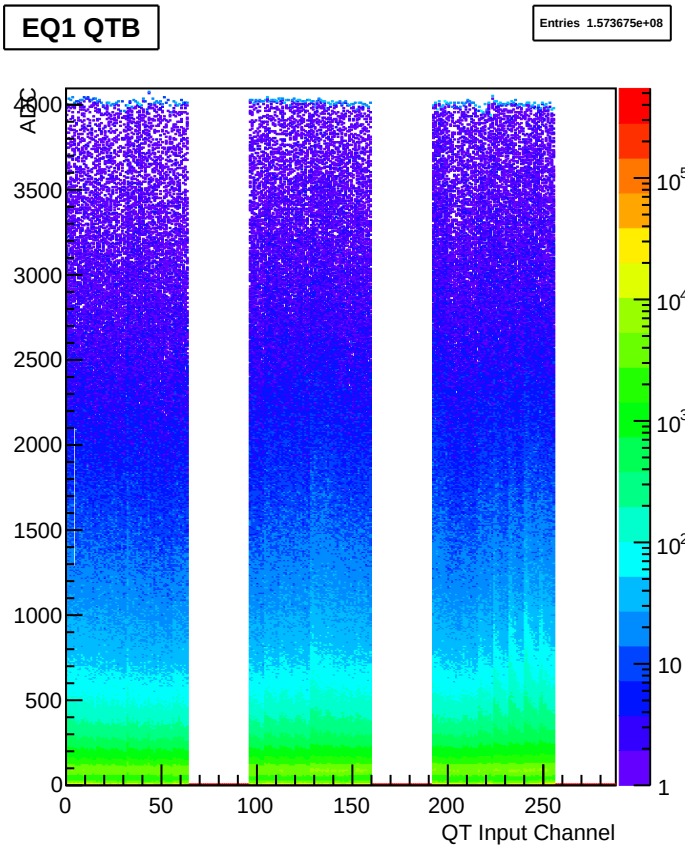

BBQ-ZD001 (ZDC TOWER)
Entries 8742640
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

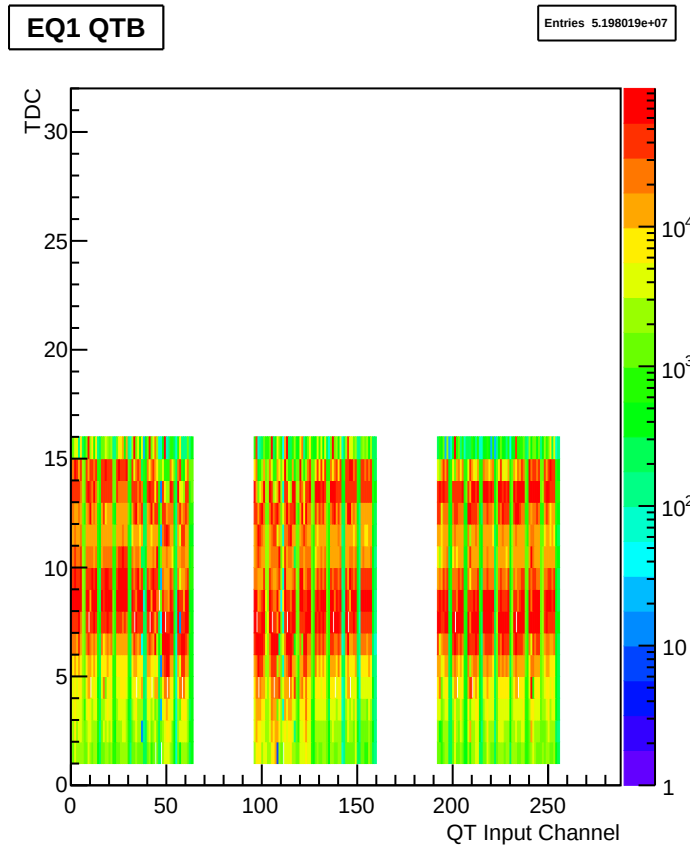

BBQ-VP001 East
Entries 8742640
ADC
QT Input Channel

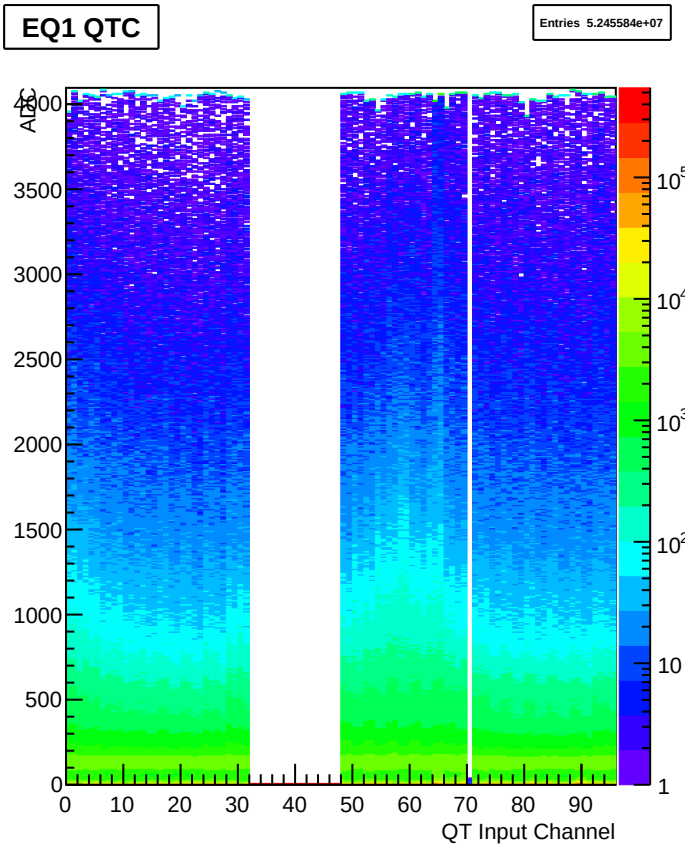

BBQ-VP001 East
Entries 8742640
ADC
QT Input Channel

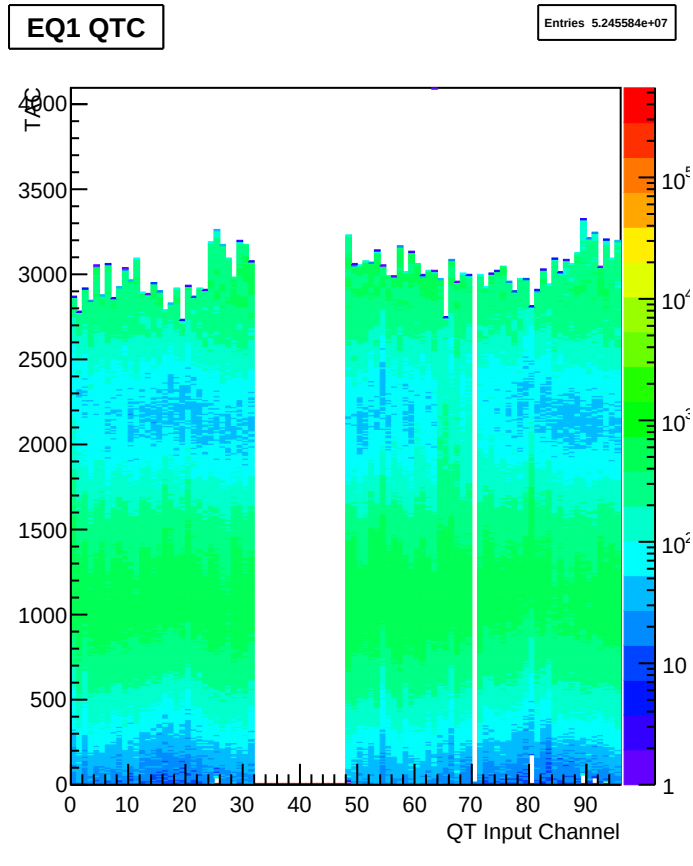

BBQ-VP002 West
Entries 8742640
ADC
QT Input Channel

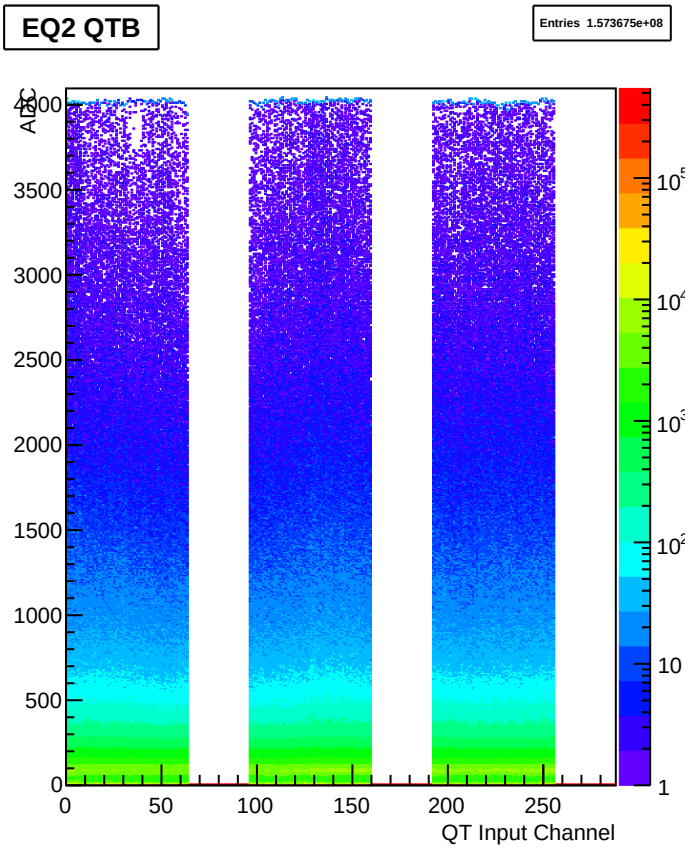

BBQ-VP002 West
Entries 8742640
ADC
QT Input Channel

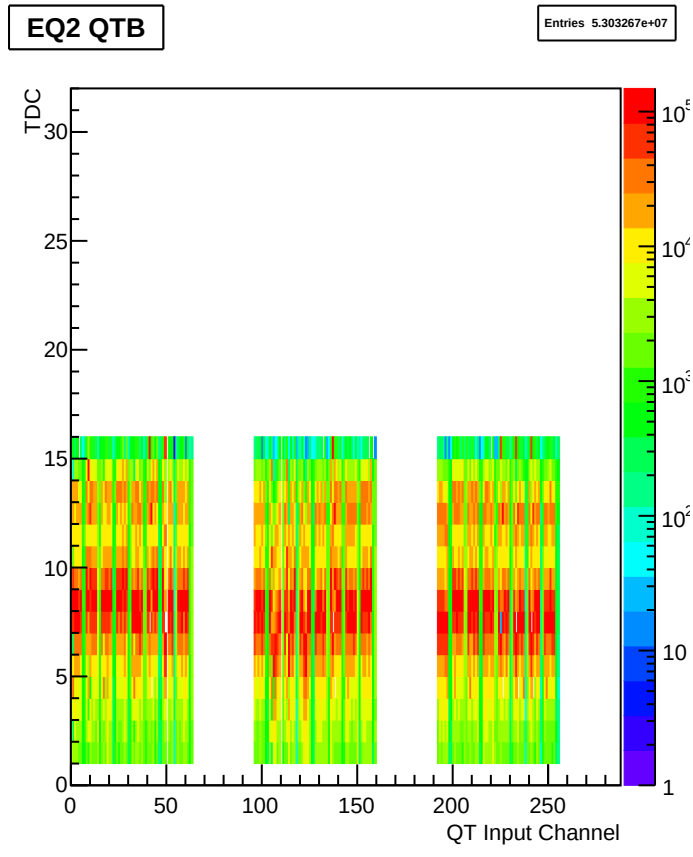

EQ1 QTB
Entries 1.573675e+08
ADC
QT Input Channel

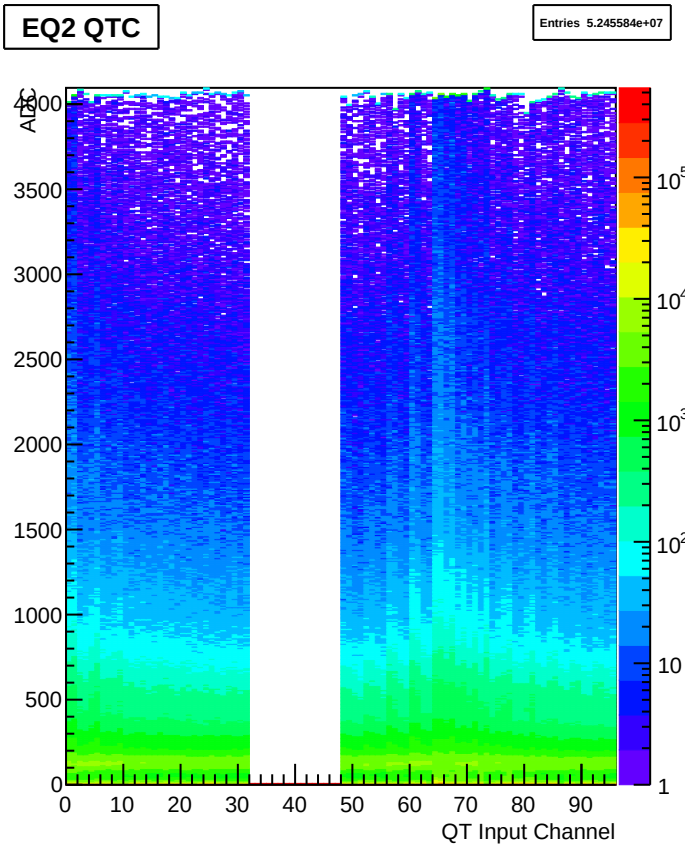

EQ1 QTB
Entries 5.198019e+07
TDC
QT Input Channel

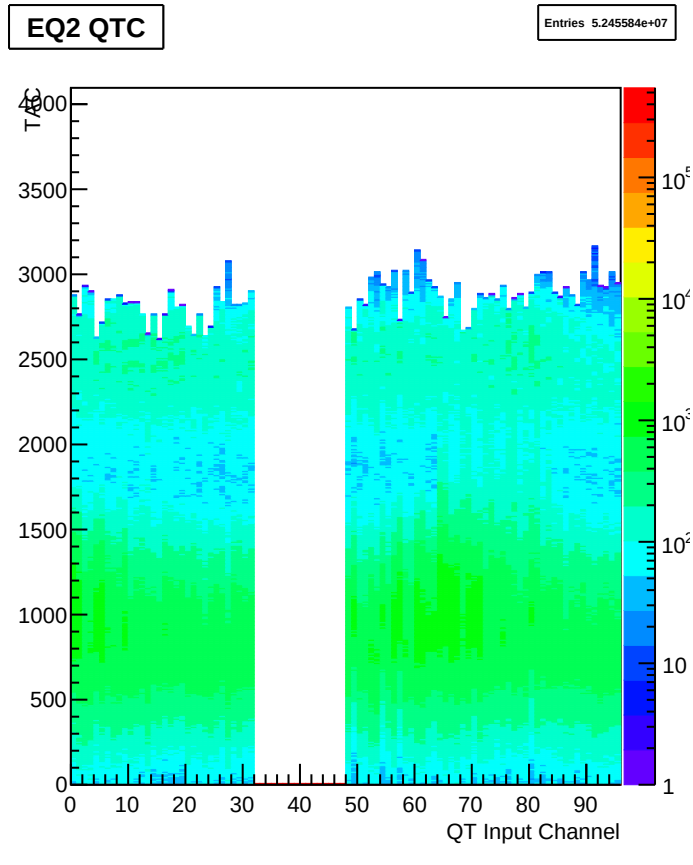

EQ1 QTC
Entries 5.245584e+07
ADC
QT Input Channel

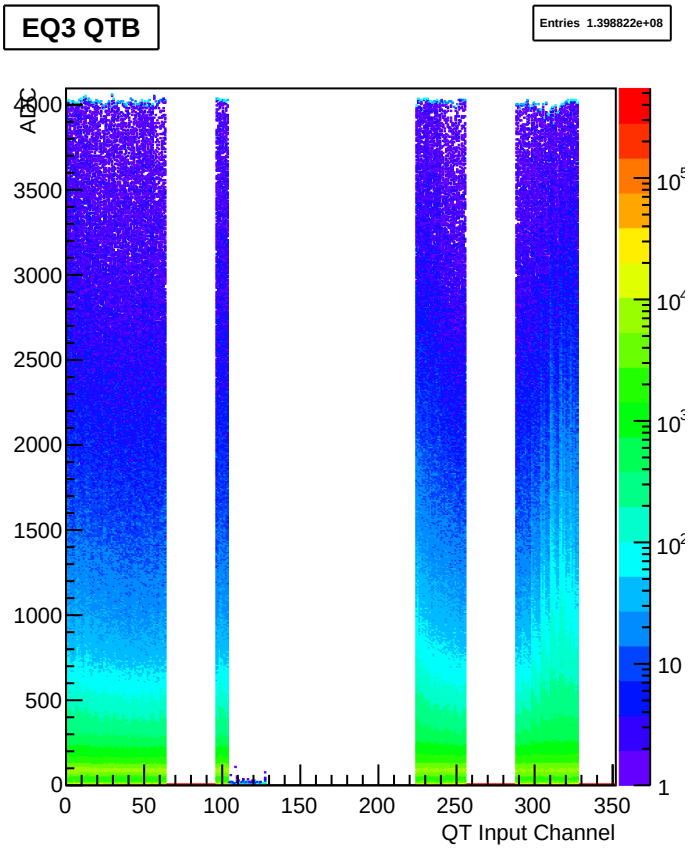

EQ1 QTC
Entries 5.245584e+07
TADC
QT Input Channel

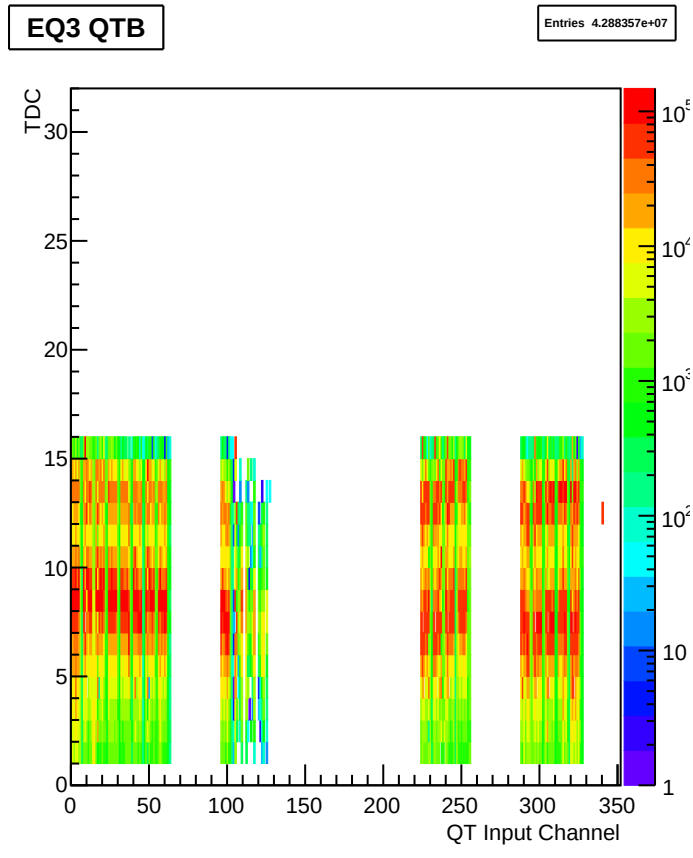

EQ2 QTB
Entries 1.573675e+08
ADC
QT Input Channel

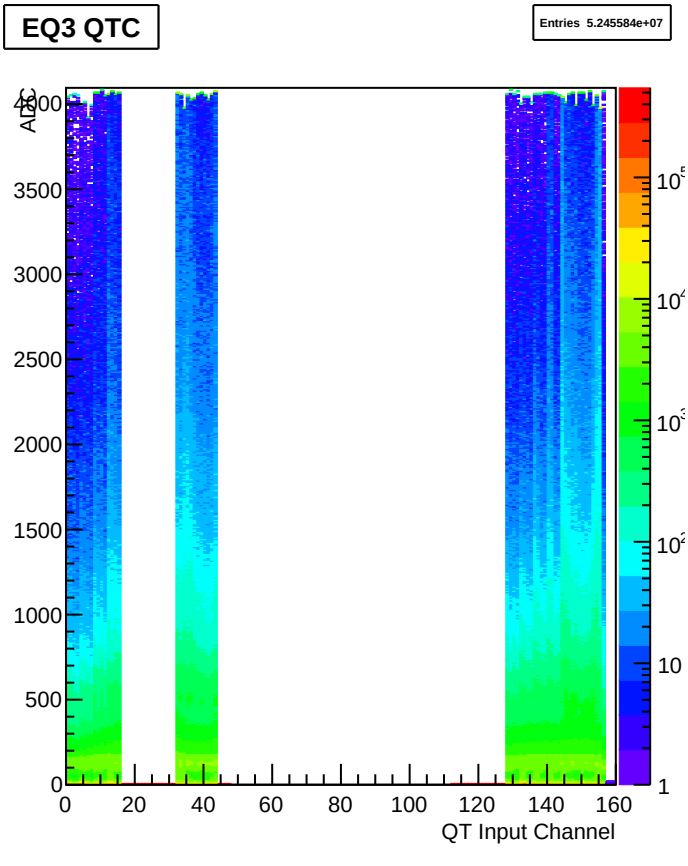

EQ2 QTB
Entries 5.303267e+07
TDC
QT Input Channel

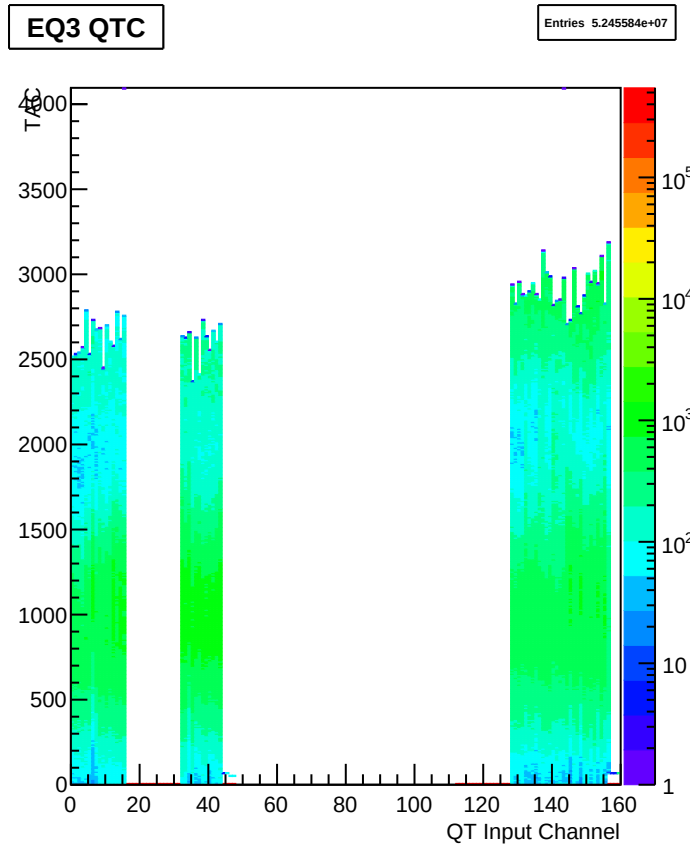

EQ2 QTC
Entries 5.245584e+07
ADC
QT Input Channel

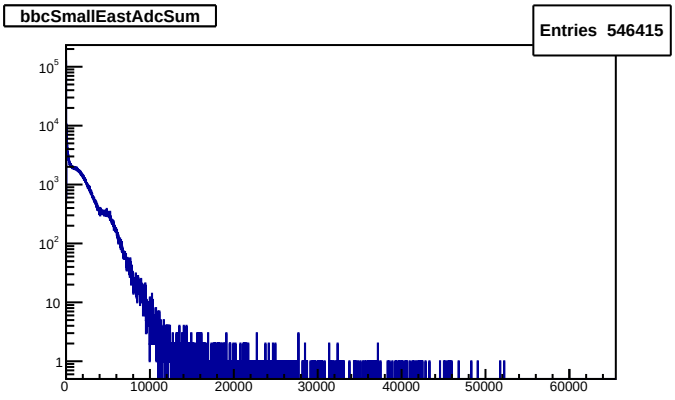

EQ2 QTC
Entries 5.245584e+07
TADC
QT Input Channel

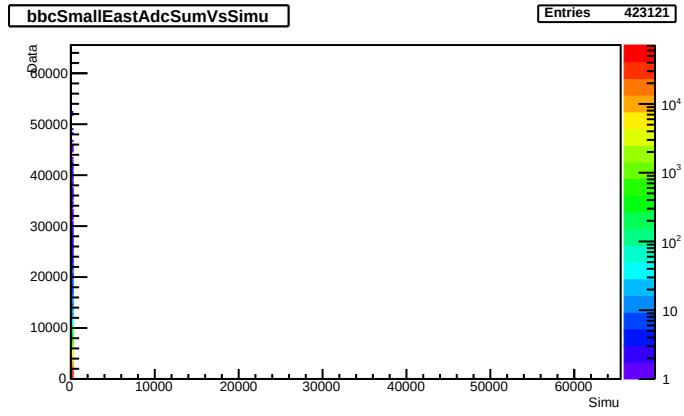

EQ3 QTB
Entries 1.398822e+08
ADC
QT Input Channel

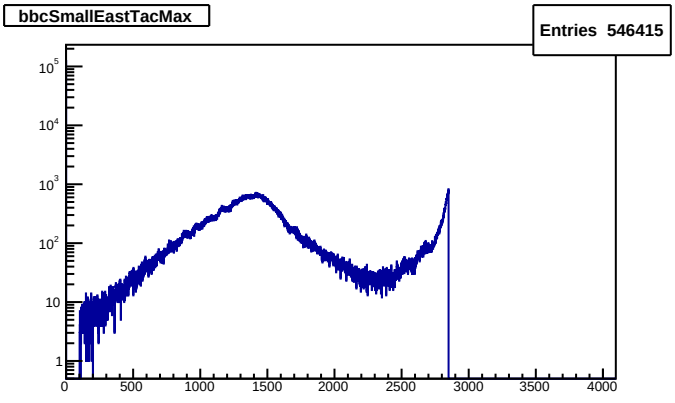

EQ3 QTB
Entries 4.288357e+07
TDC
QT Input Channel

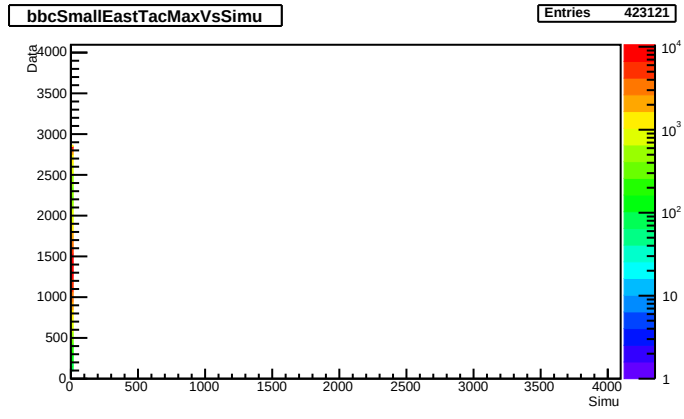

EQ3 QTC
Entries 5.245584e+07
ADC
QT Input Channel

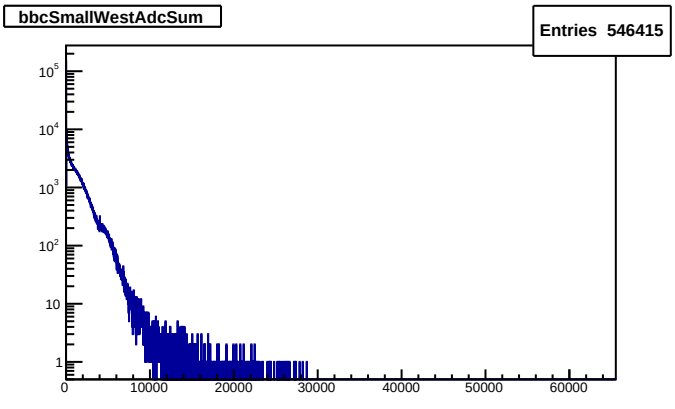

EQ3 QTC
Entries 5.245584e+07
TADC
QT Input Channel

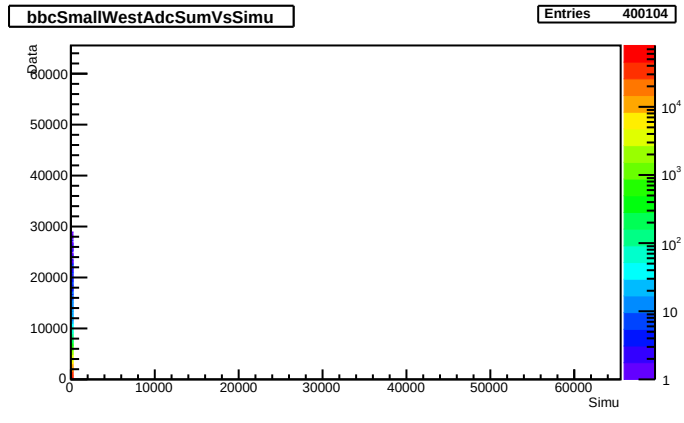

bbcSmallEastAdcSum
Entries 546415

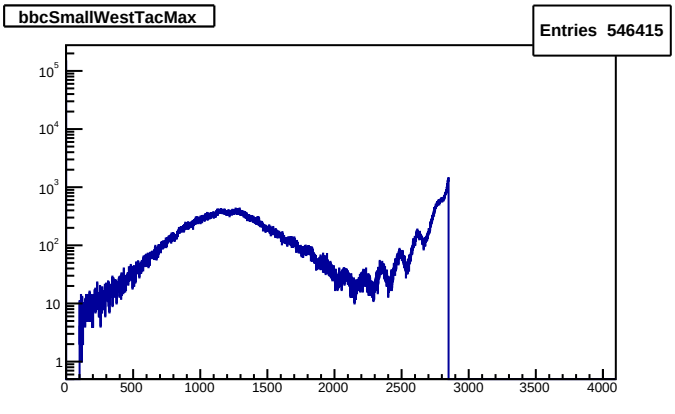

bbcSmallEastAdcSumVsSimu
Entries 423121
Data
Simu

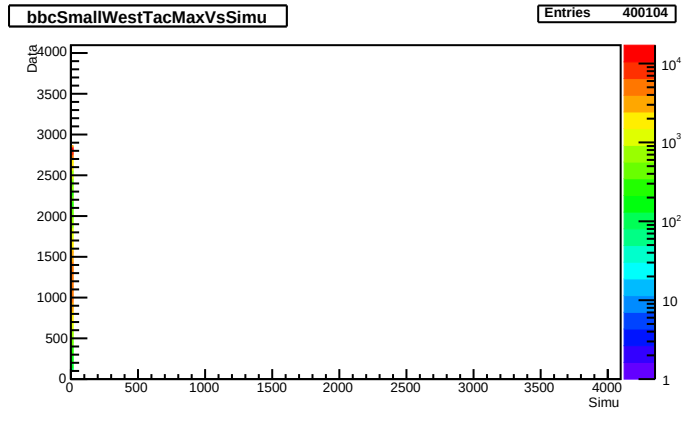

bbcSmallEastTacMax
Entries 546415

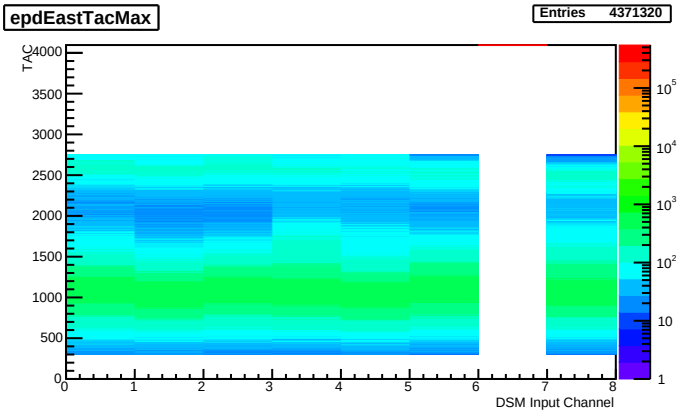

bbcSmallEastTacMaxVsSimu
Entries 423121
Data
Simu

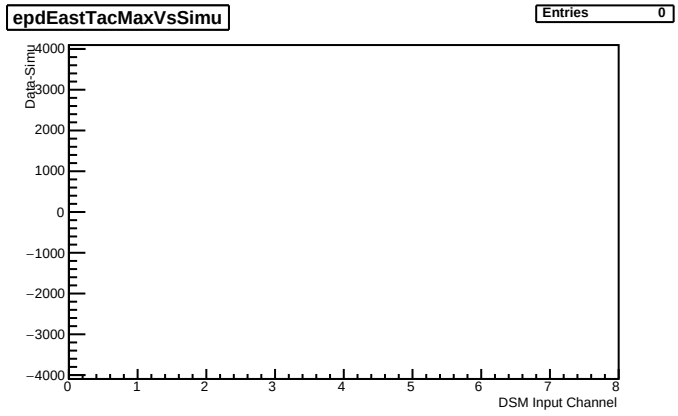

bbcSmallWestAdcSum
Entries 546415

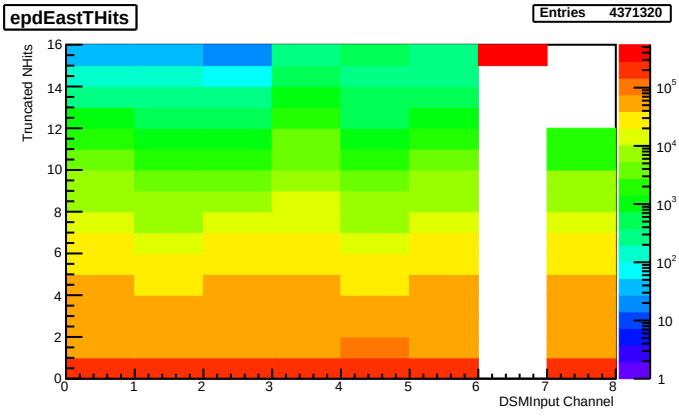

bbcSmallWestAdcSumVsSimu
Entries 400104
Data
Simu

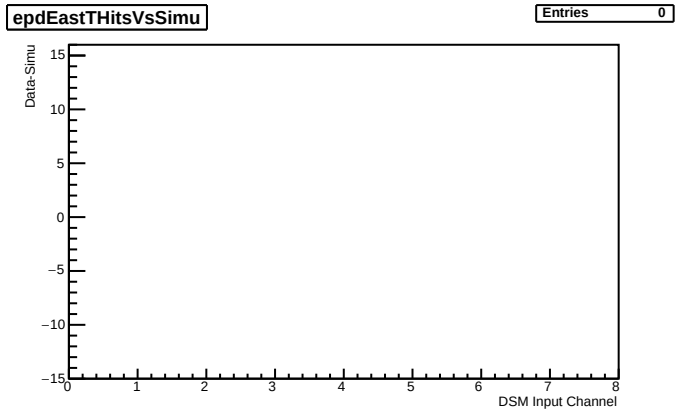

bbcSmallWestTacMax
Entries 546415

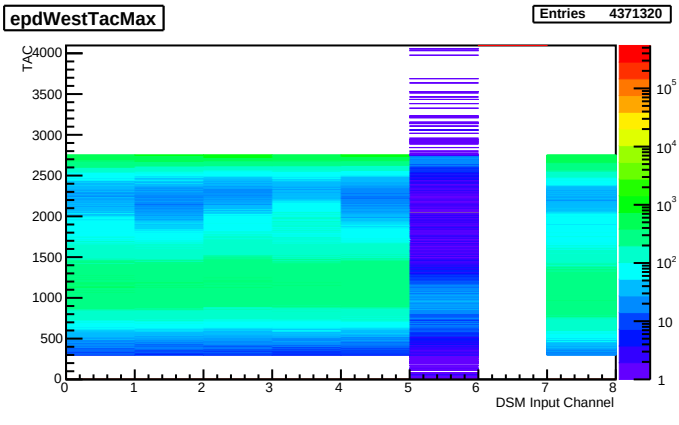

bbcSmallWestTacMaxVsSimu
Entries 400104
Data
Simu

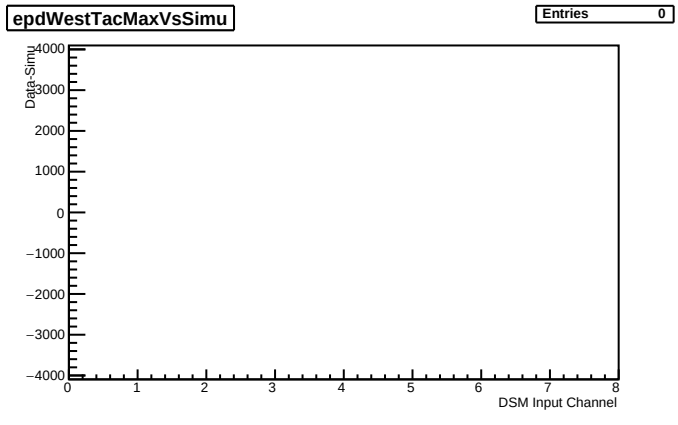

epdEastTacMax
Entries 4371320
TAC
DSM Input Channel

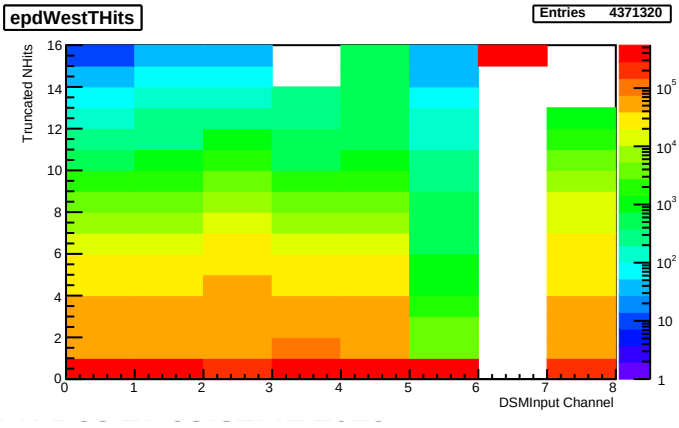

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

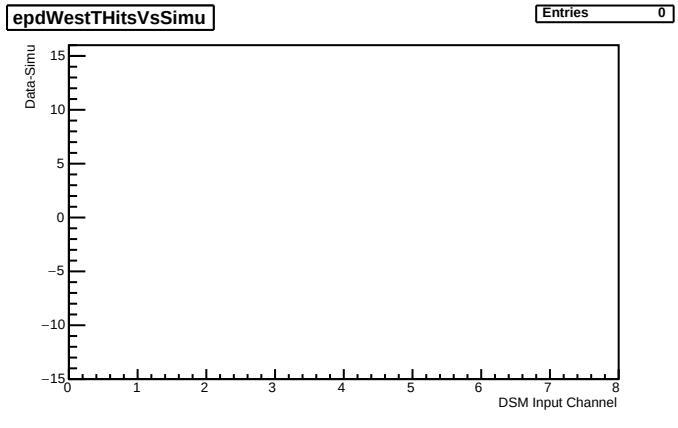

epdEastTHits
Entries 4371320
Truncated NHits
DSMInput Channel

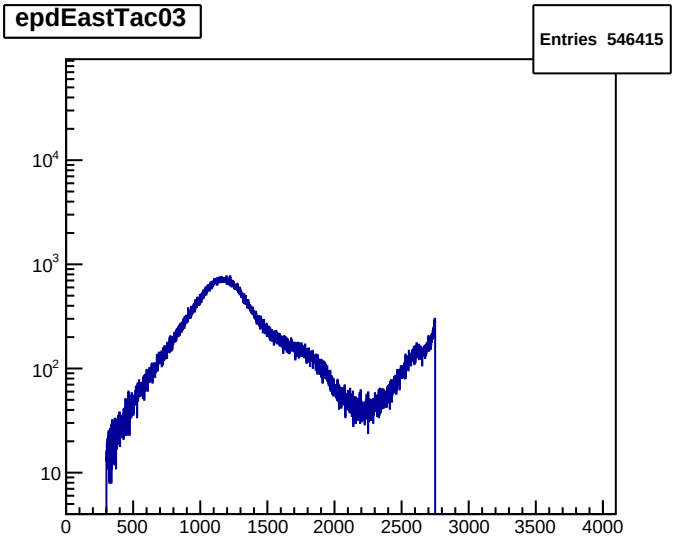

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

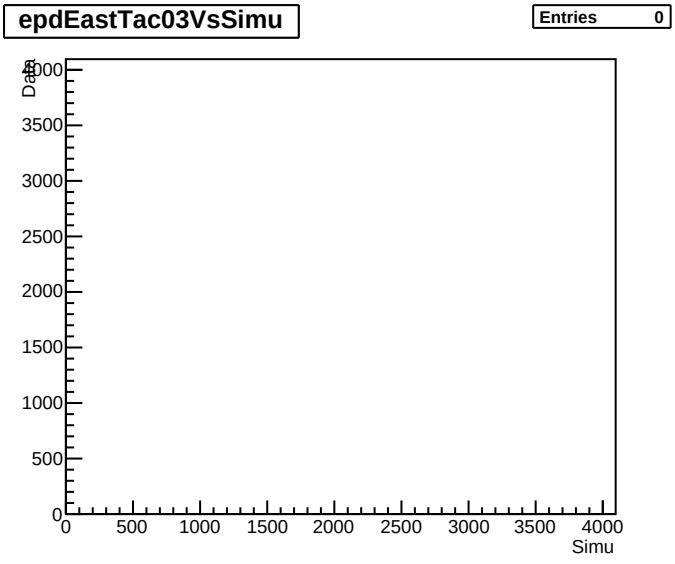

epdWestTacMax
Entries 4371320
TAC
DSM Input Channel

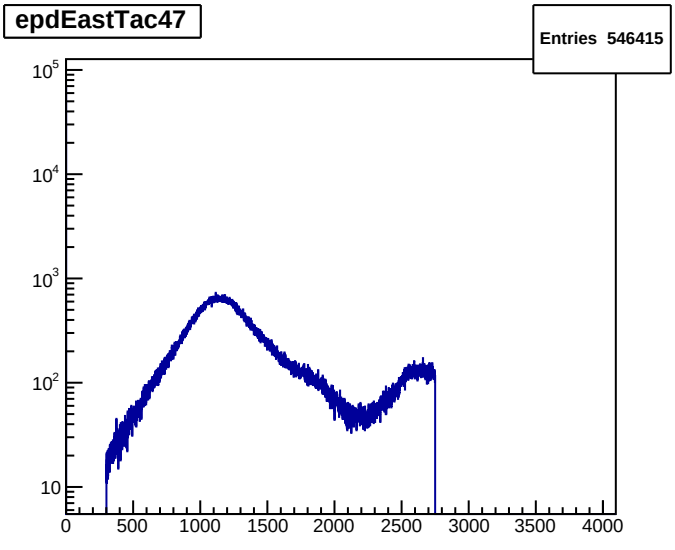

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

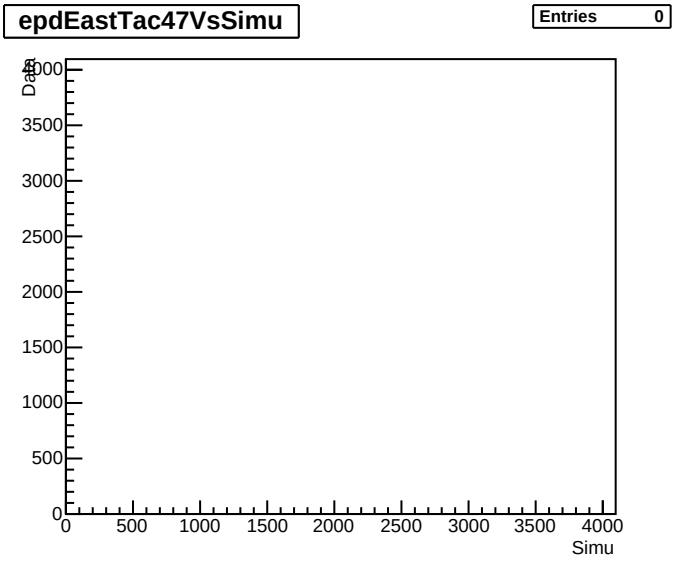

epdWestTHits
Entries 4371320
Truncated NHits
DSMInput Channel

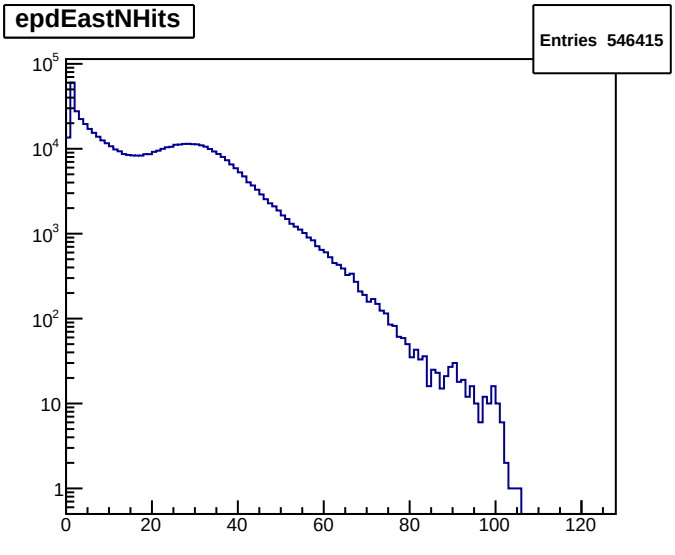

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

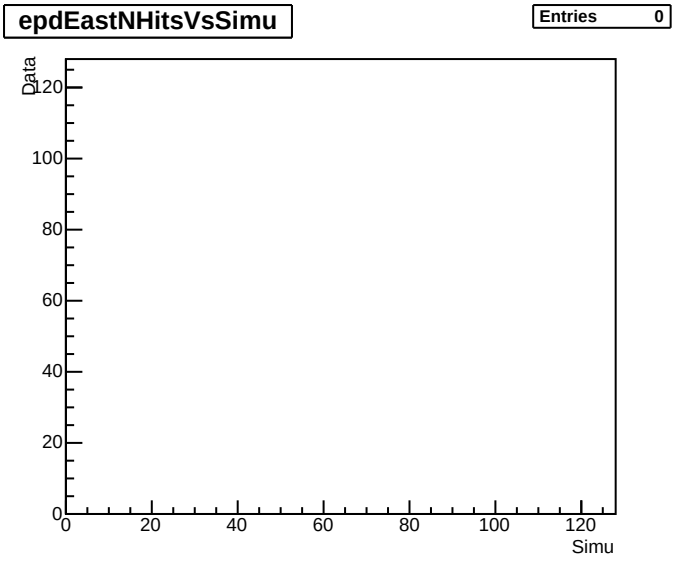

epdEastTac03
Entries 546415

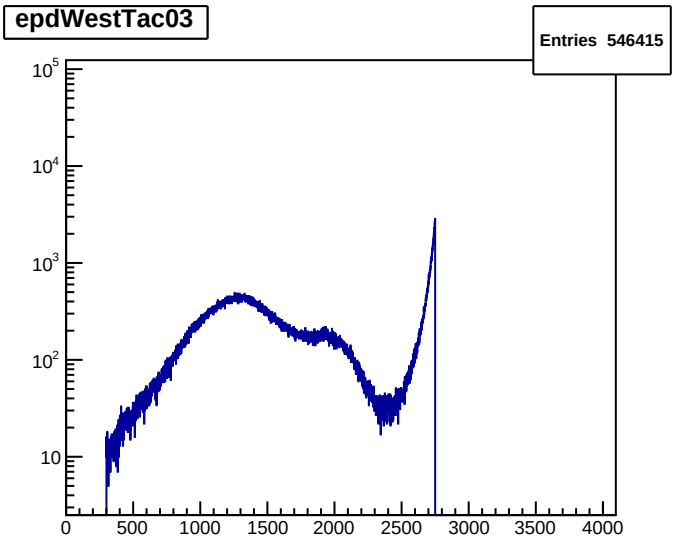

epdEastTac03VsSimu
Entries 0
Data
Simu

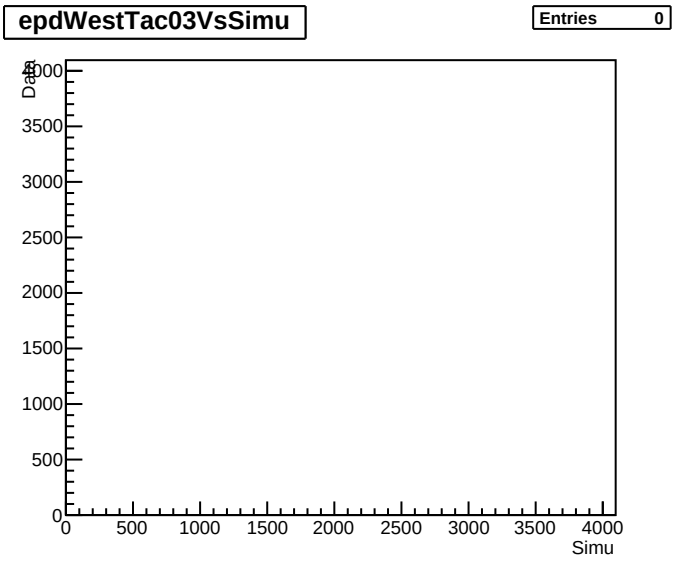

epdEastTac47
Entries 546415

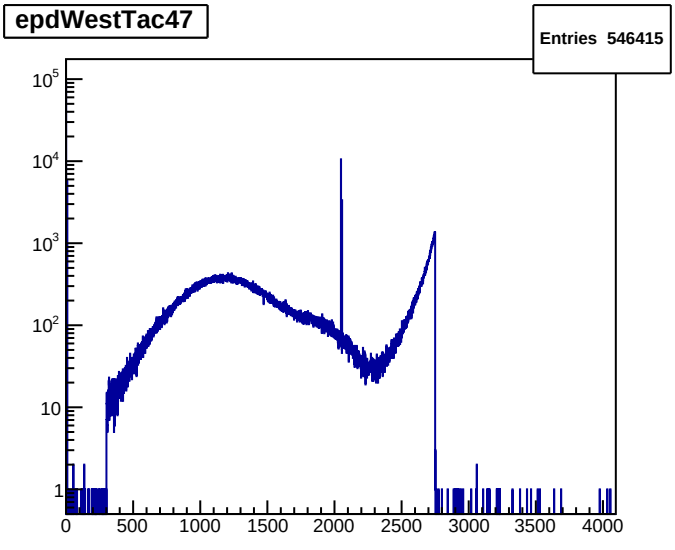

epdEastTac47VsSimu
Entries 0
Data
Simu

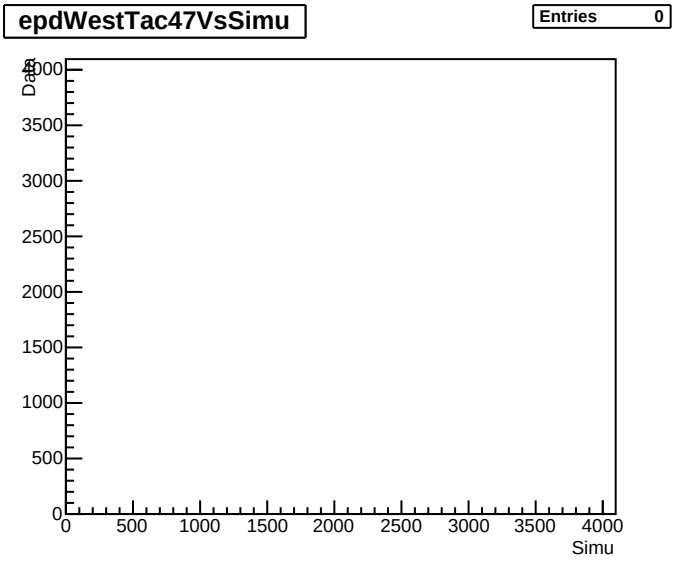

epdEastNHits
Entries 546415

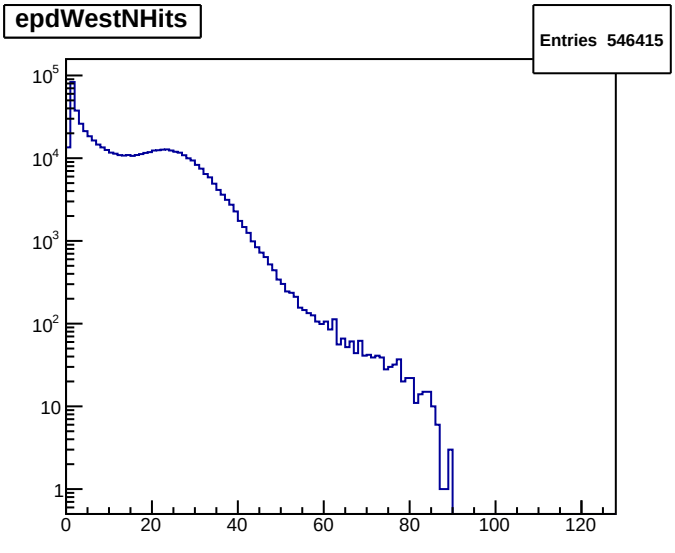

epdEastNHitsVsSimu
Entries 0
Data
Simu

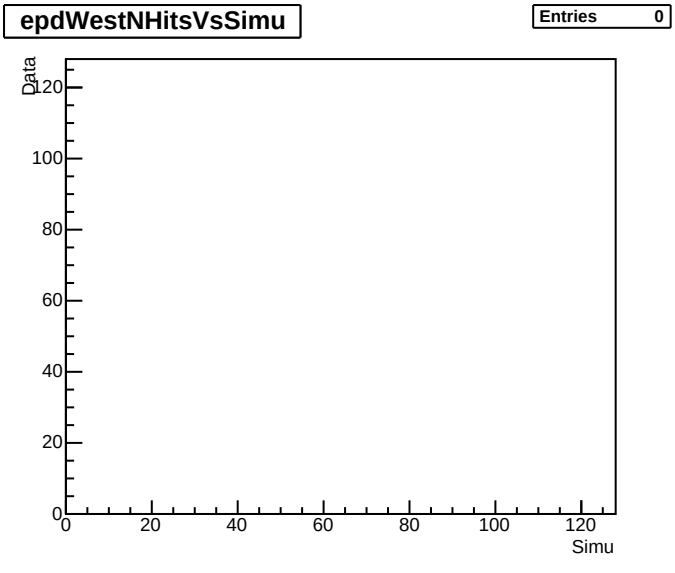

epdWestTac03
Entries 546415

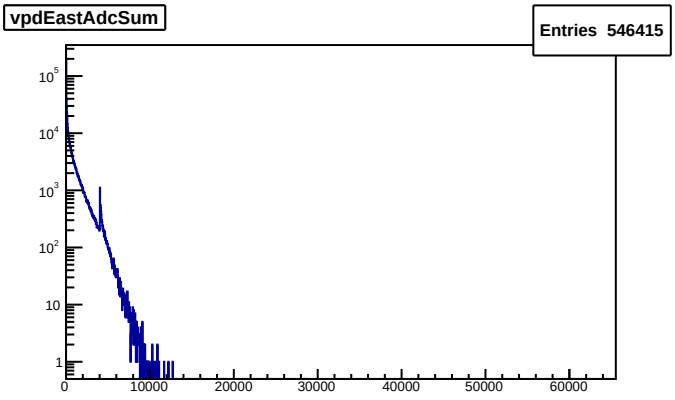

epdWestTac03VsSimu
Entries 0
Data
Simu

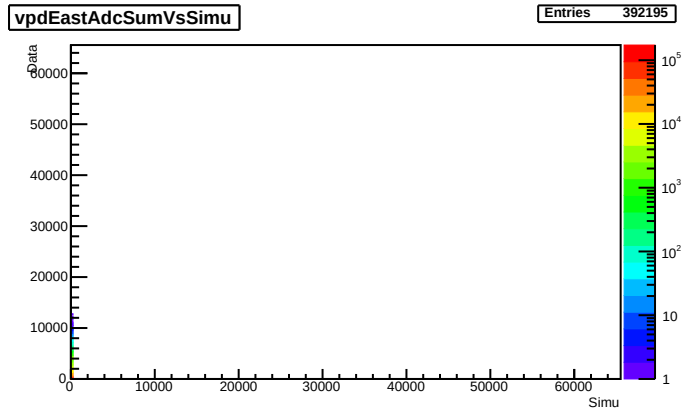

epdWestTac47
Entries 546415

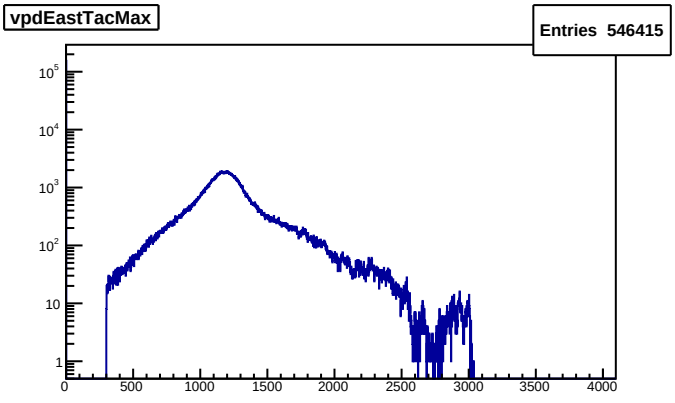

epdWestTac47VsSimu
Entries 0
Data
Simu

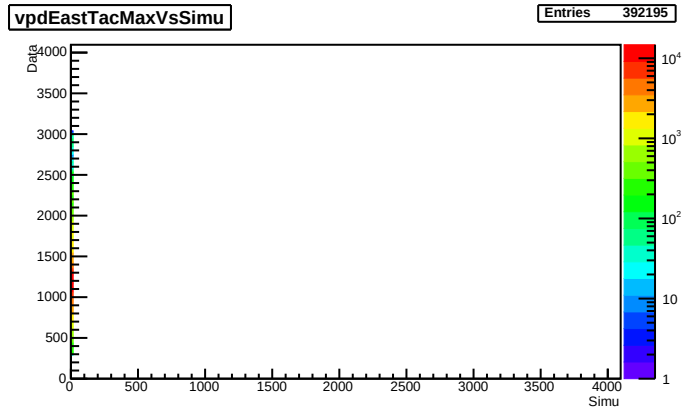

epdWestNHits
Entries 546415

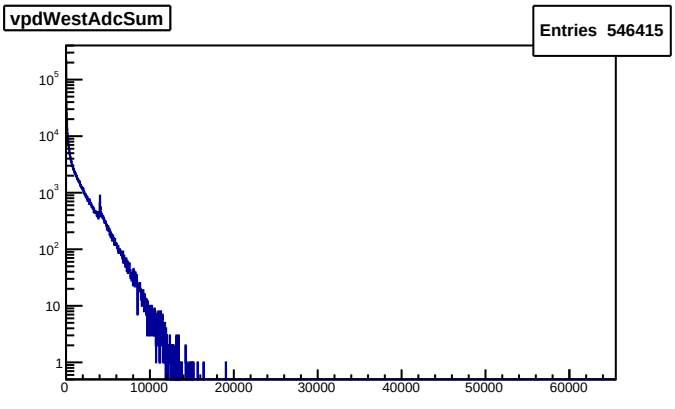

epdWestNHitsVsSimu
Entries 0
Data
Simu

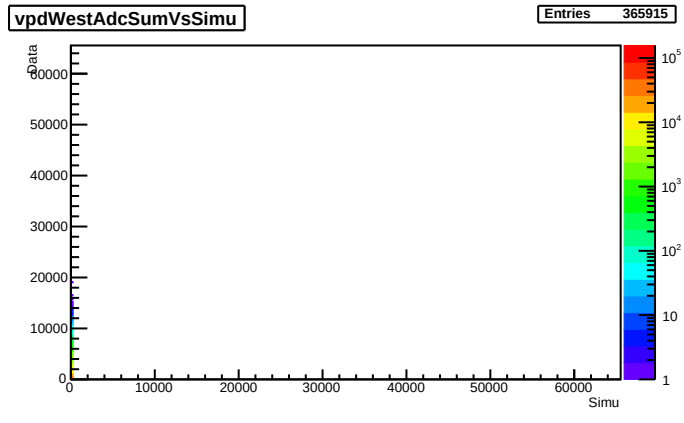

vpdEastAdcSum
Entries 546415

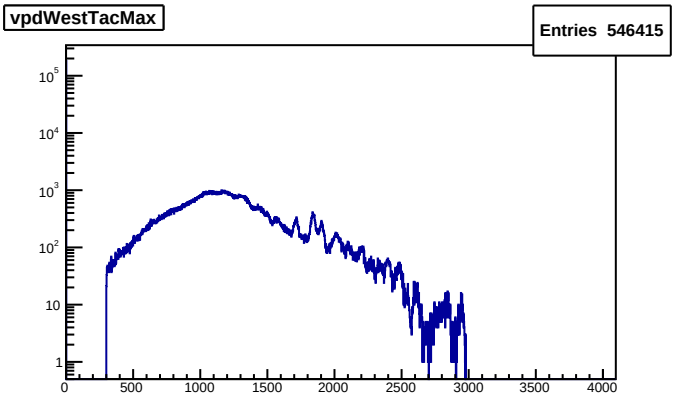

vpdEastAdcSumVsSimu
Entries 392195
Data
Simu

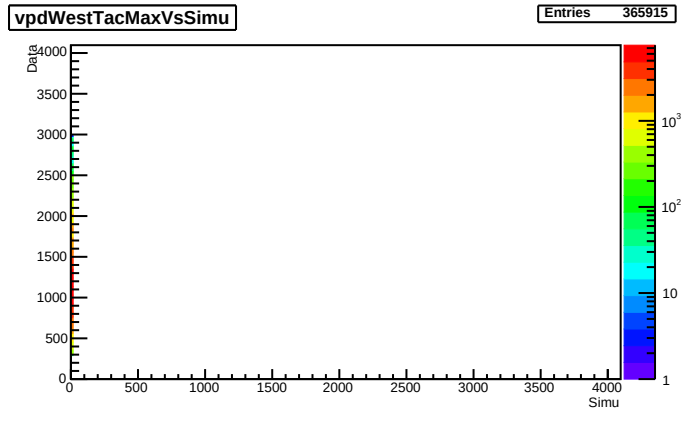

vpdEastTacMax
Entries 546415

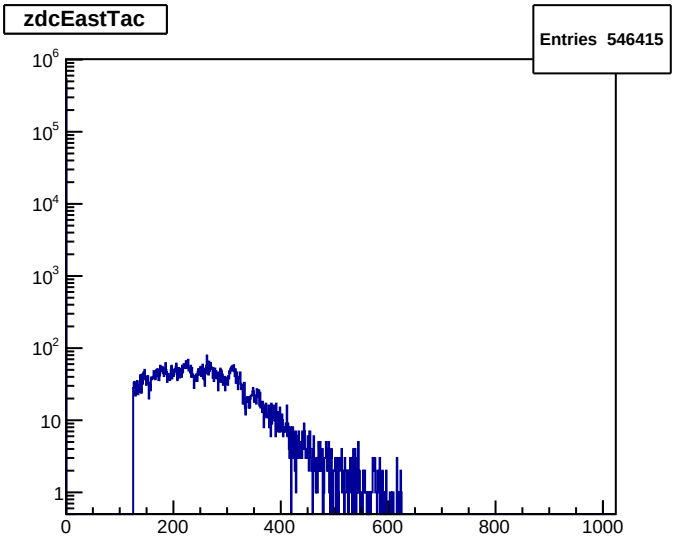

vpdEastTacMaxVsSimu
Entries 392195
Data
Simu

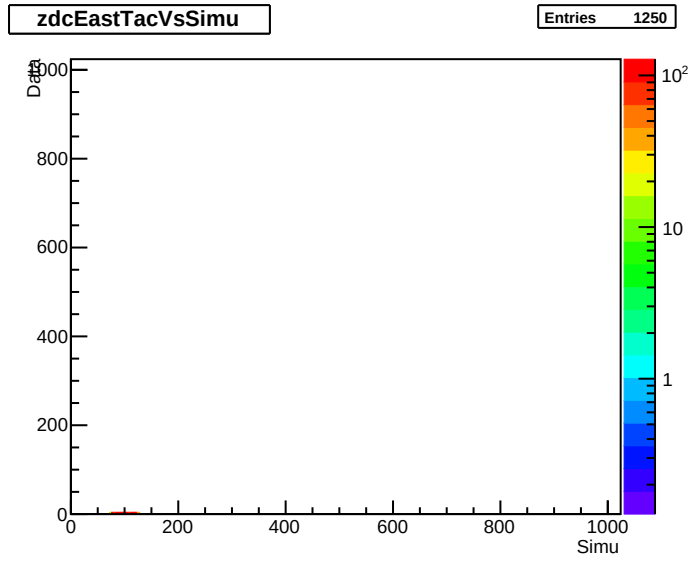

vpdWestAdcSum
Entries 546415

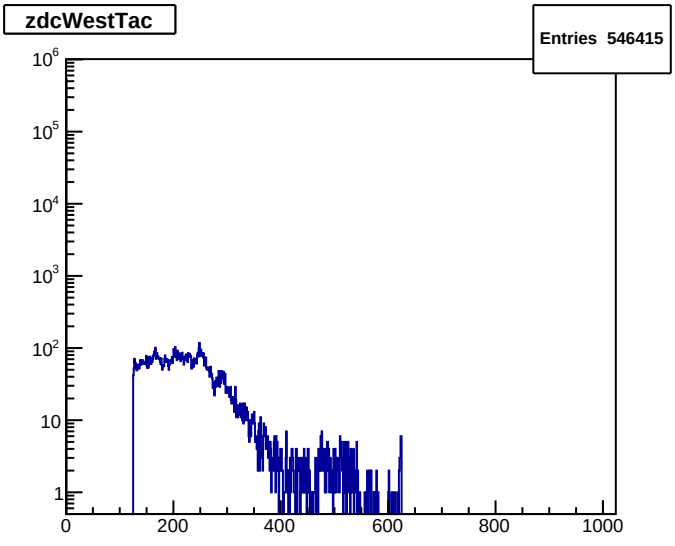

vpdWestAdcSumVsSimu
Entries 365915
Data
Simu

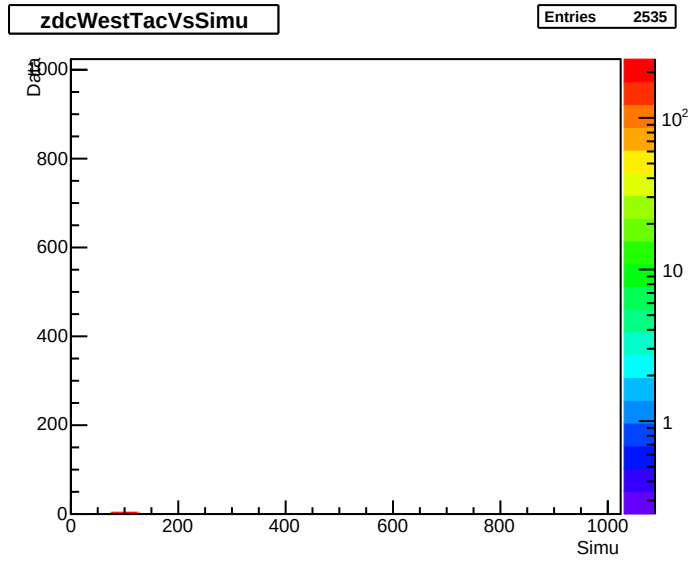

vpdWestTacMax
Entries 546415

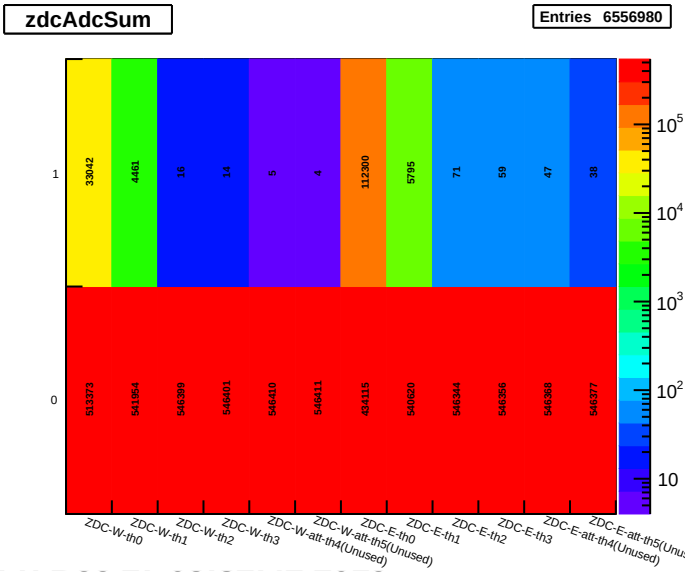

vpdWestTacMaxVsSimu
Entries 365915
Data
Simu

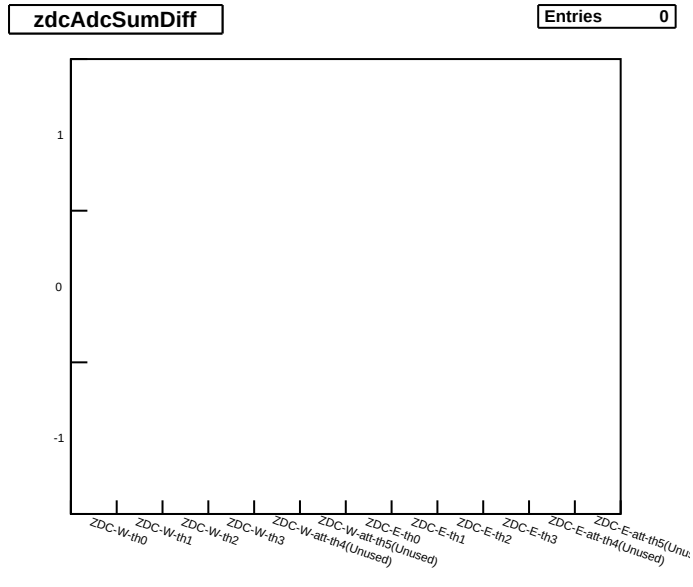

zdcEastTac
Entries 546415

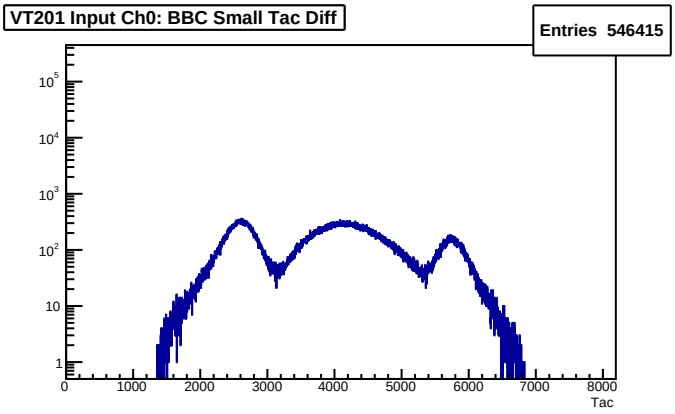

zdcEastTacVsSimu
Entries 1250
Data
Simu

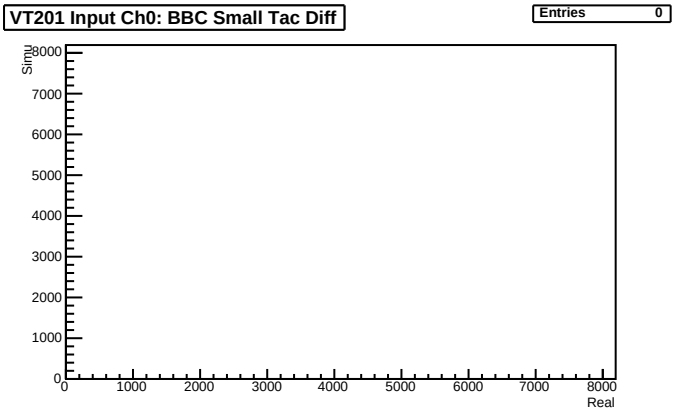

zdcWestTac
Entries 546415

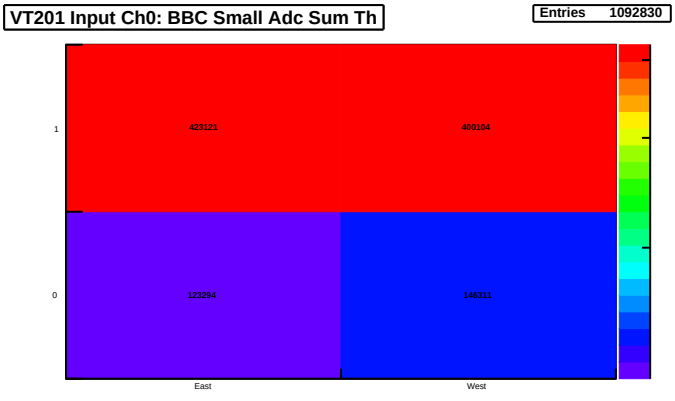

zdcWestTacVsSimu
Entries 2535
Data
Simu

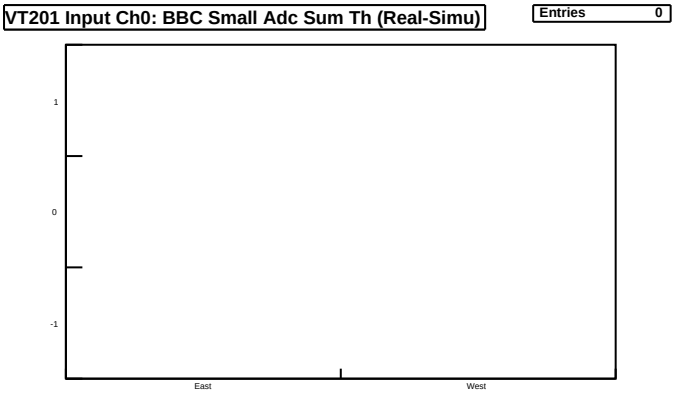

zdcAdcSum
Entries 6556980
33042
4461
16
14
5
4
112300
5795
71
59
47
38
513373
541954
546399
546401
546410
546411
434115
540620
546344
546356
546368
546377
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

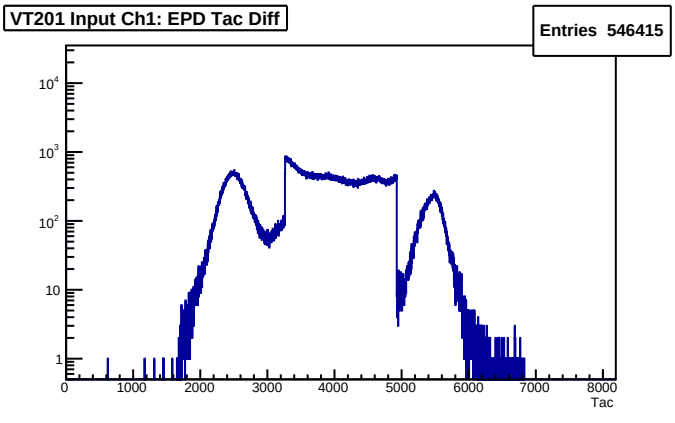

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

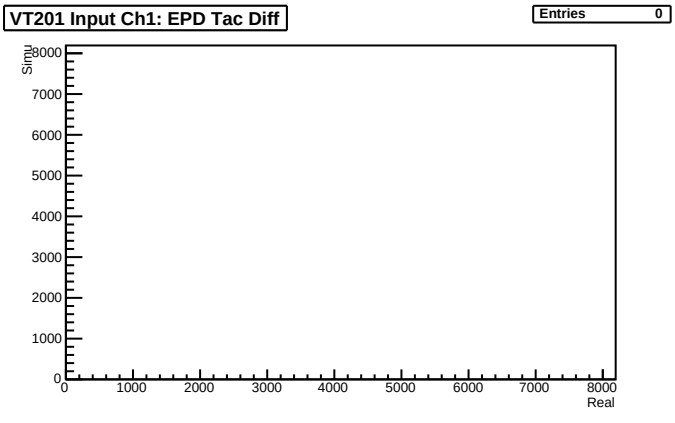

VT201 Input Ch0: BBC Small Tac Diff
Entries 546415
Tac

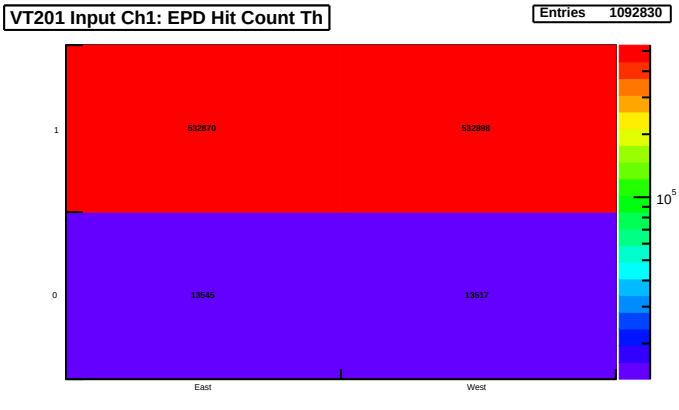

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

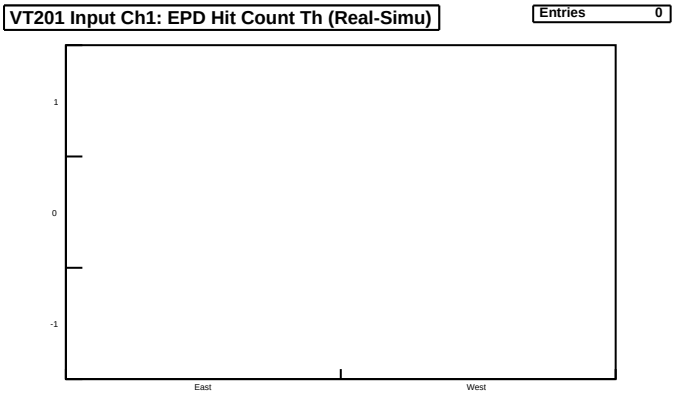

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1092830
423121
400104
123294
146311
East
West

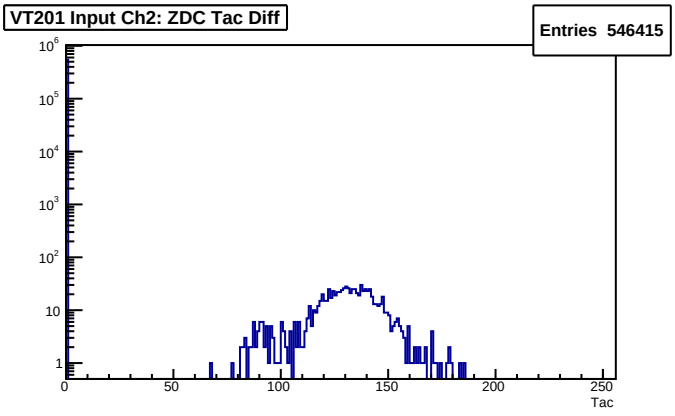

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

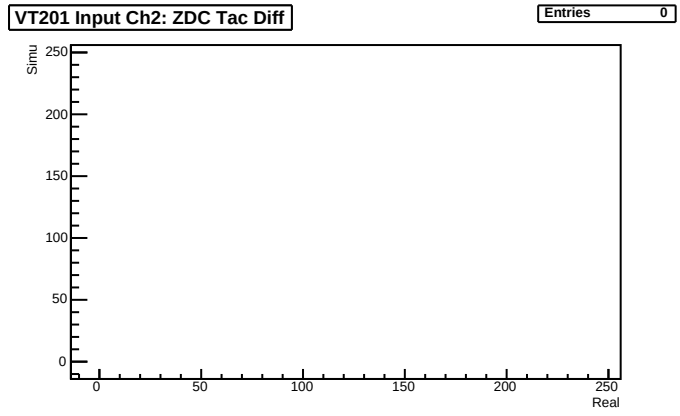

VT201 Input Ch1: EPD Tac Diff
Entries 546415
Tac

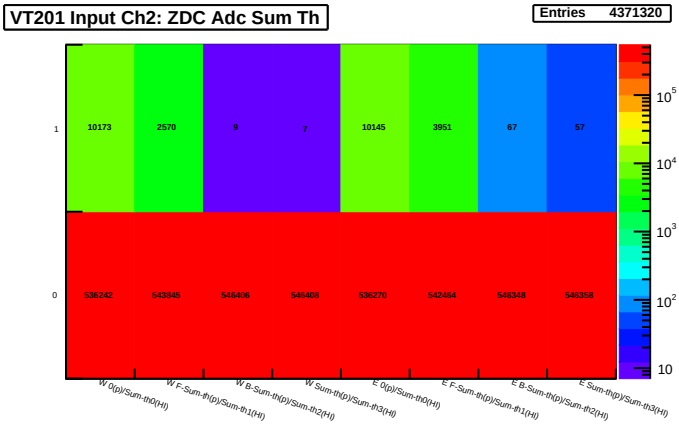

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

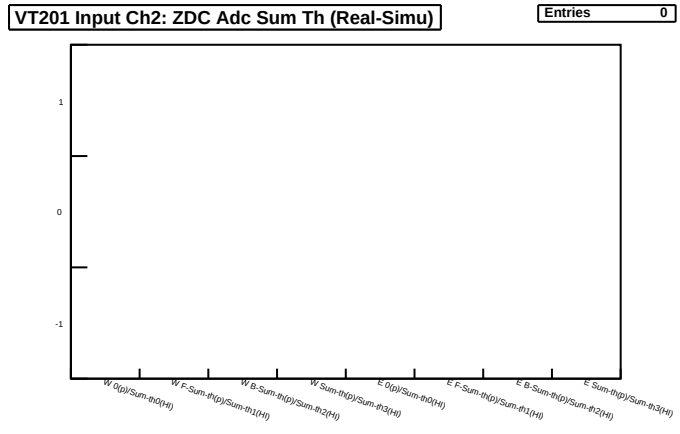

VT201 Input Ch1: EPD Hit Count Th
Entries 1092830
532870
532898
13545
13517
East
West

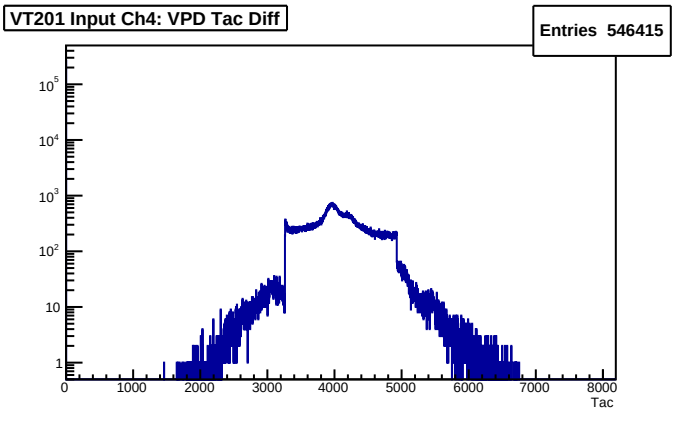

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

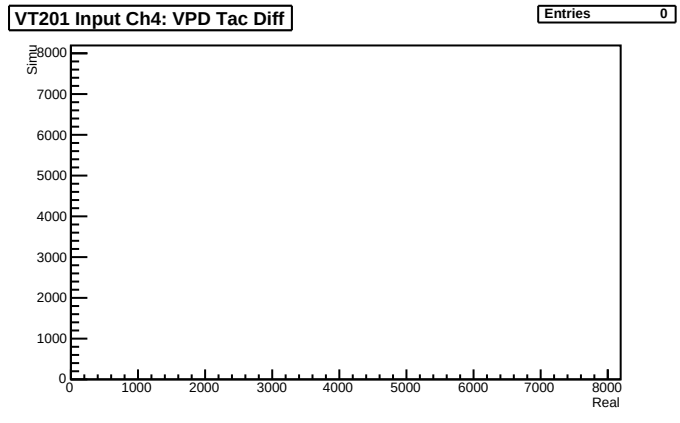

VT201 Input Ch2: ZDC Tac Diff
Entries 546415
Tac

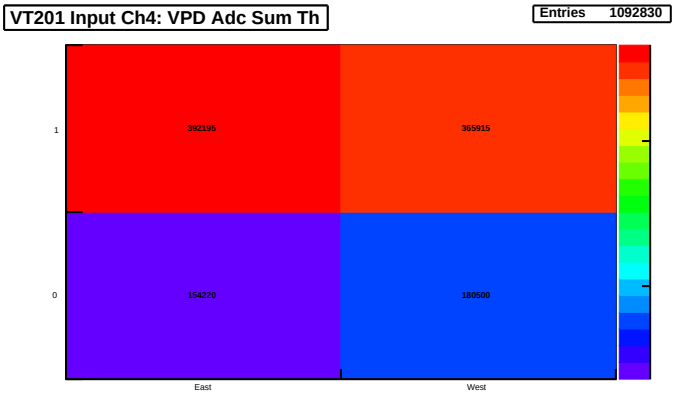

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

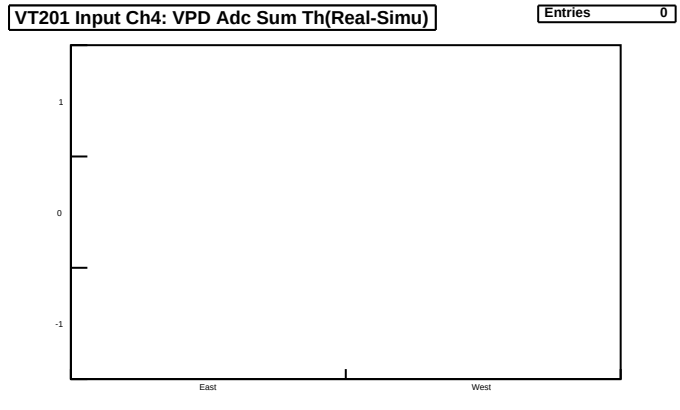

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4371320
10173
2570
9
7
10145
3951
67
57
536242
543845
546406
546408
536270
542464
546348
546358
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

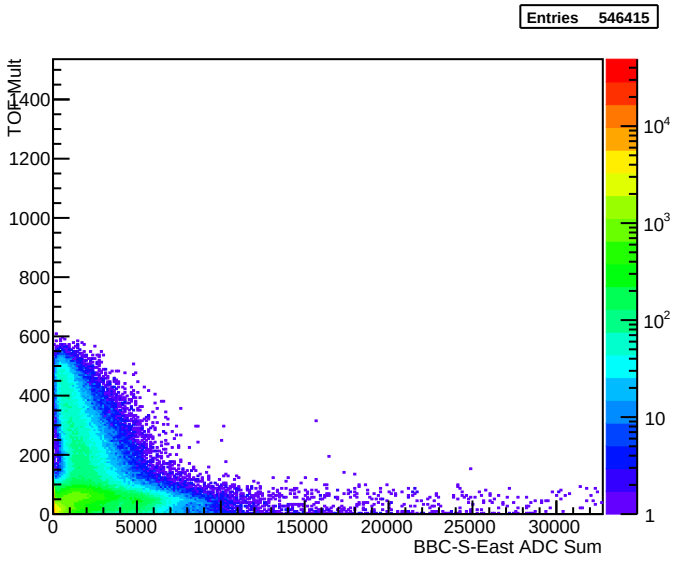

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

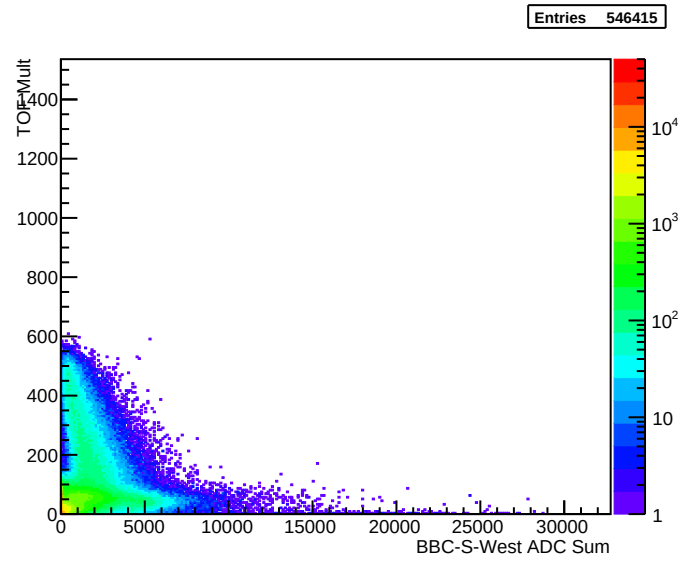

VT201 Input Ch4: VPD Tac Diff
Entries 546415
Tac

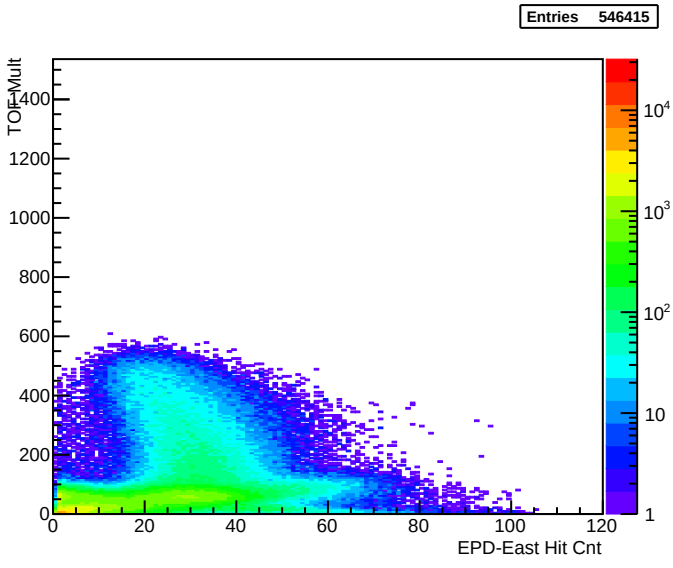

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

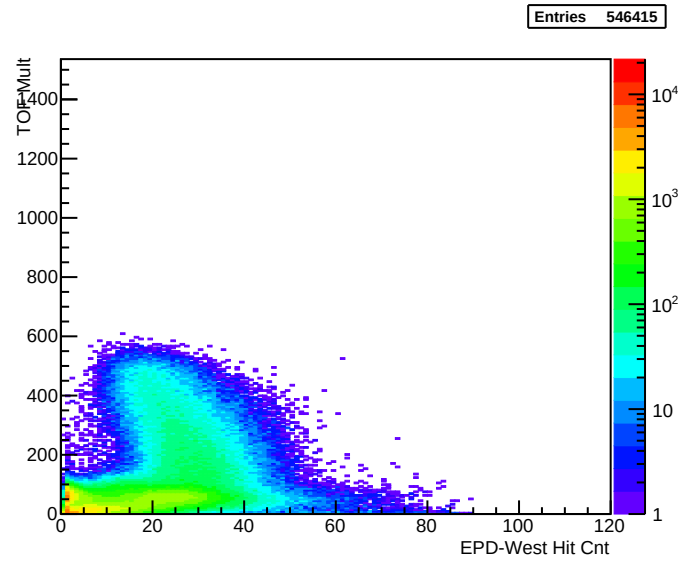

VT201 Input Ch4: VPD Adc Sum Th
Entries 1092830
392195
365915
154220
180500
East
West

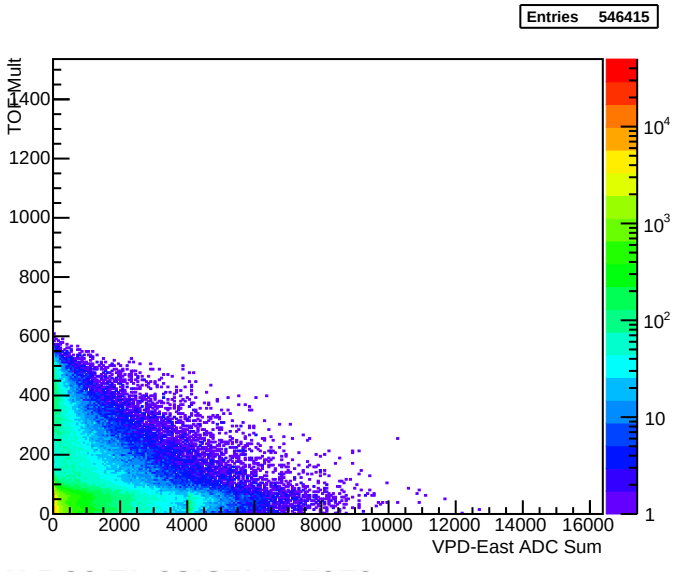

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

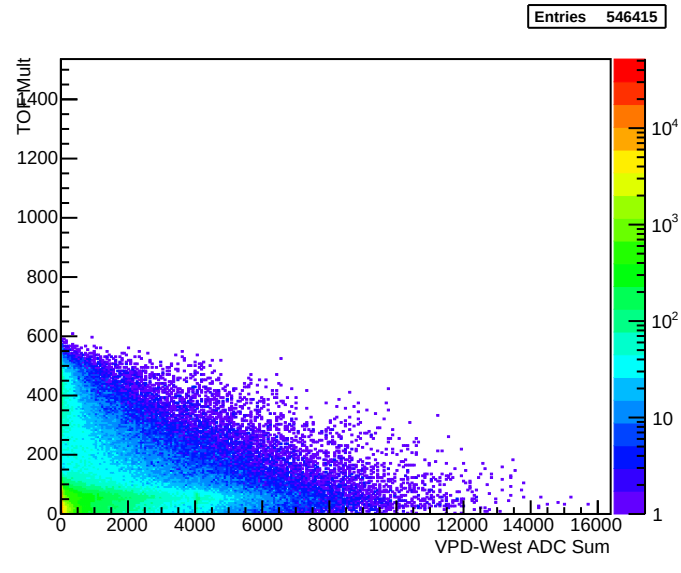

Entries 546415
TOF-Mult
BBC-S-East ADC Sum

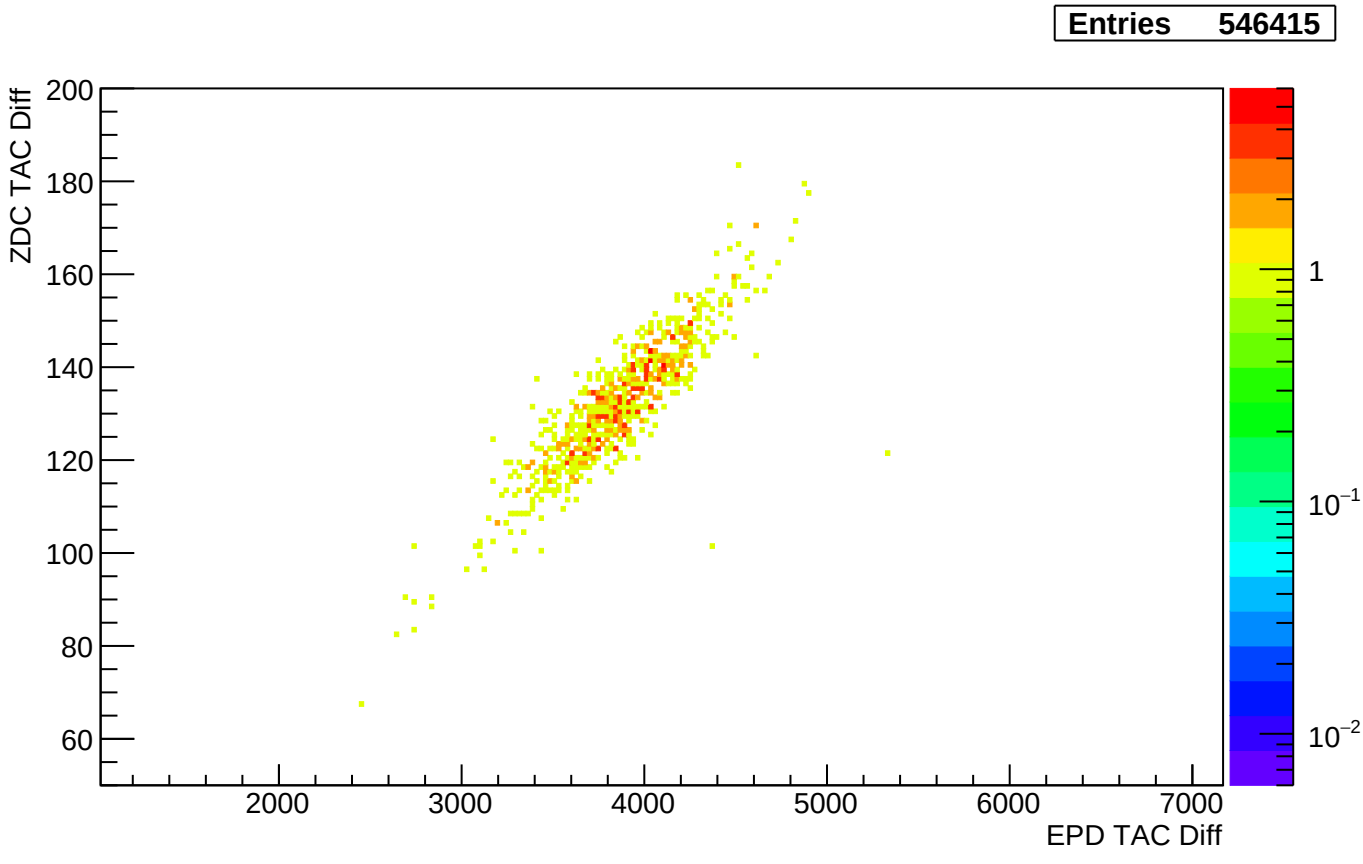

Entries 546415
TOF-Mult
BBC-S-West ADC Sum

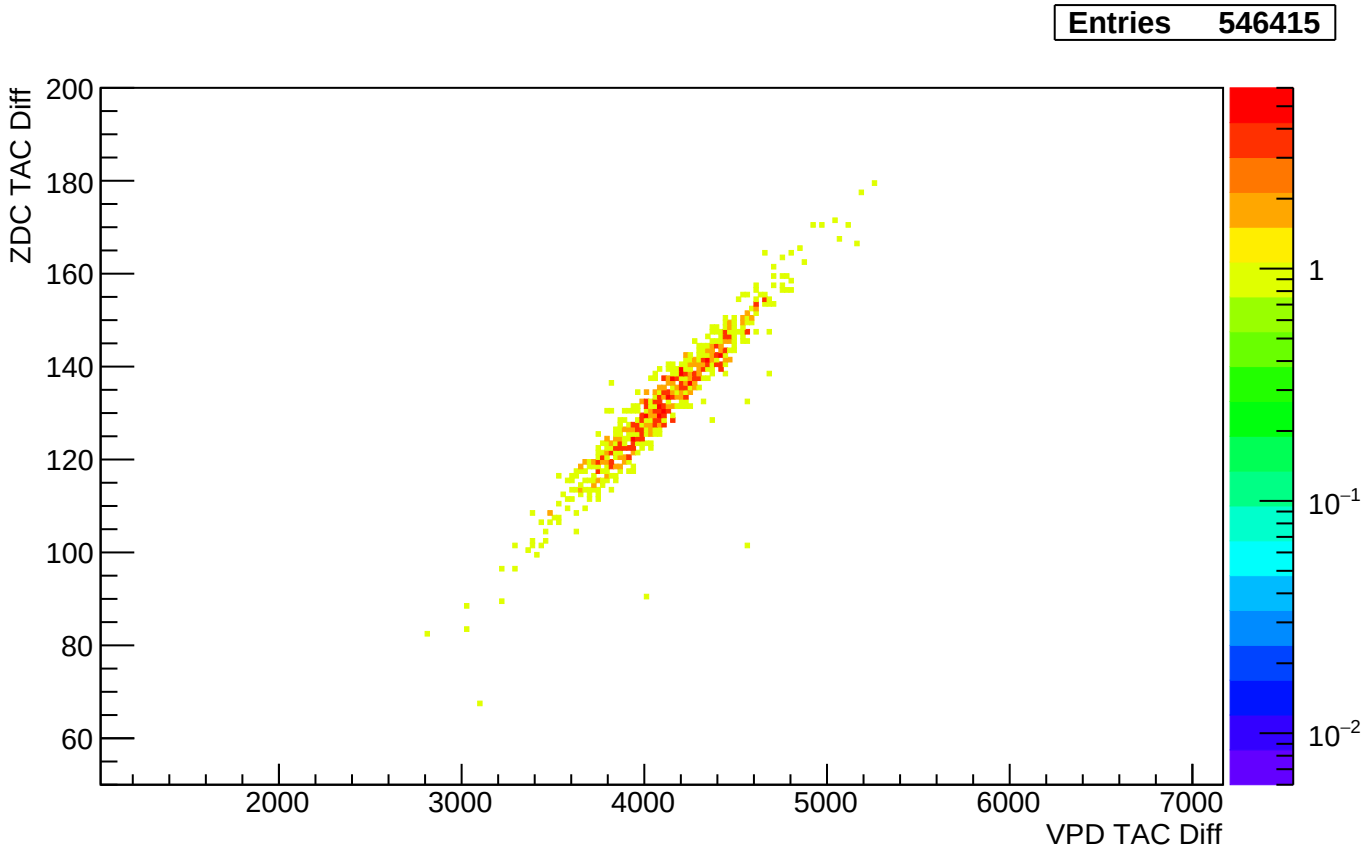

Entries 546415
TOF-Mult
EPD-East Hit Cnt

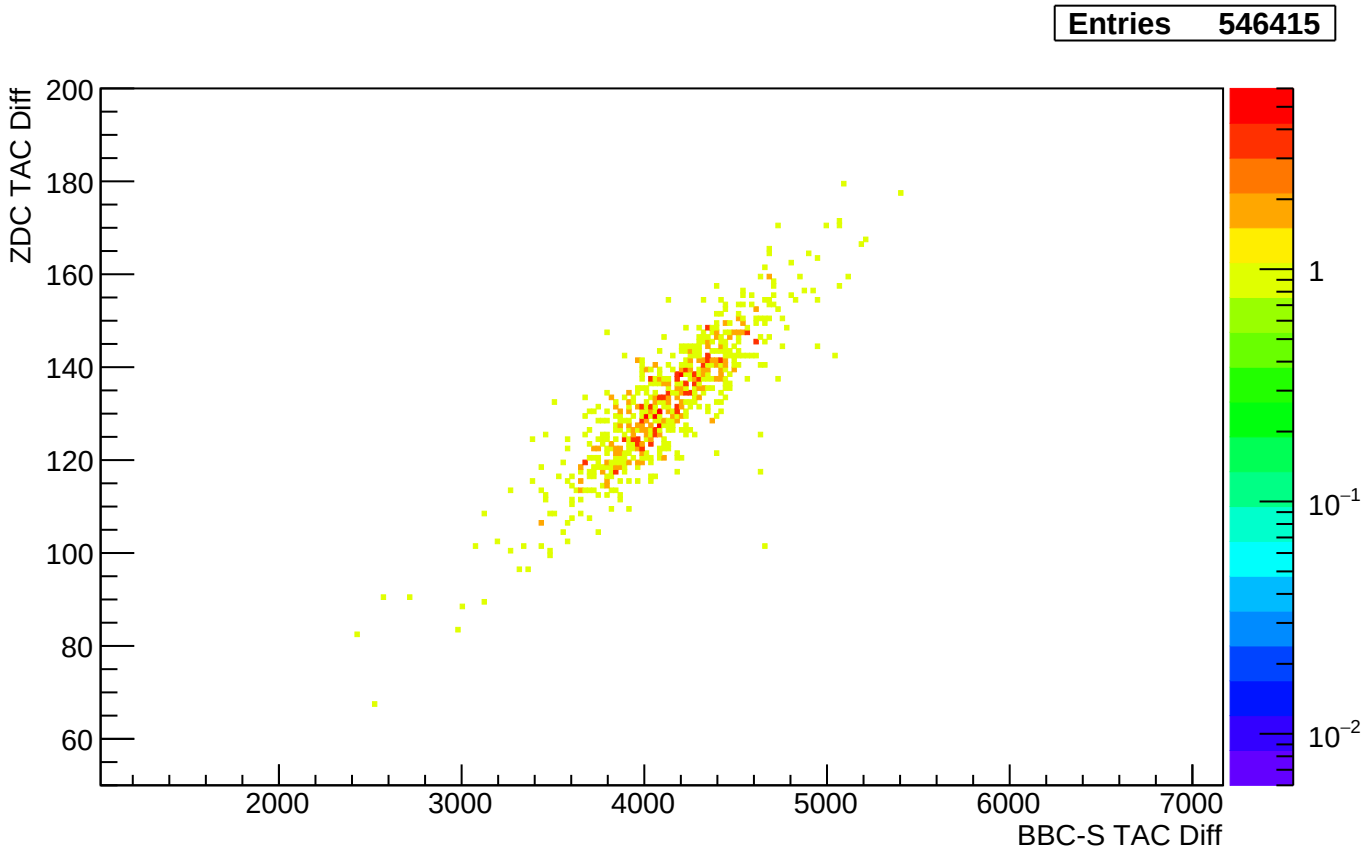

Entries 546415
TOF-Mult
EPD-West Hit Cnt

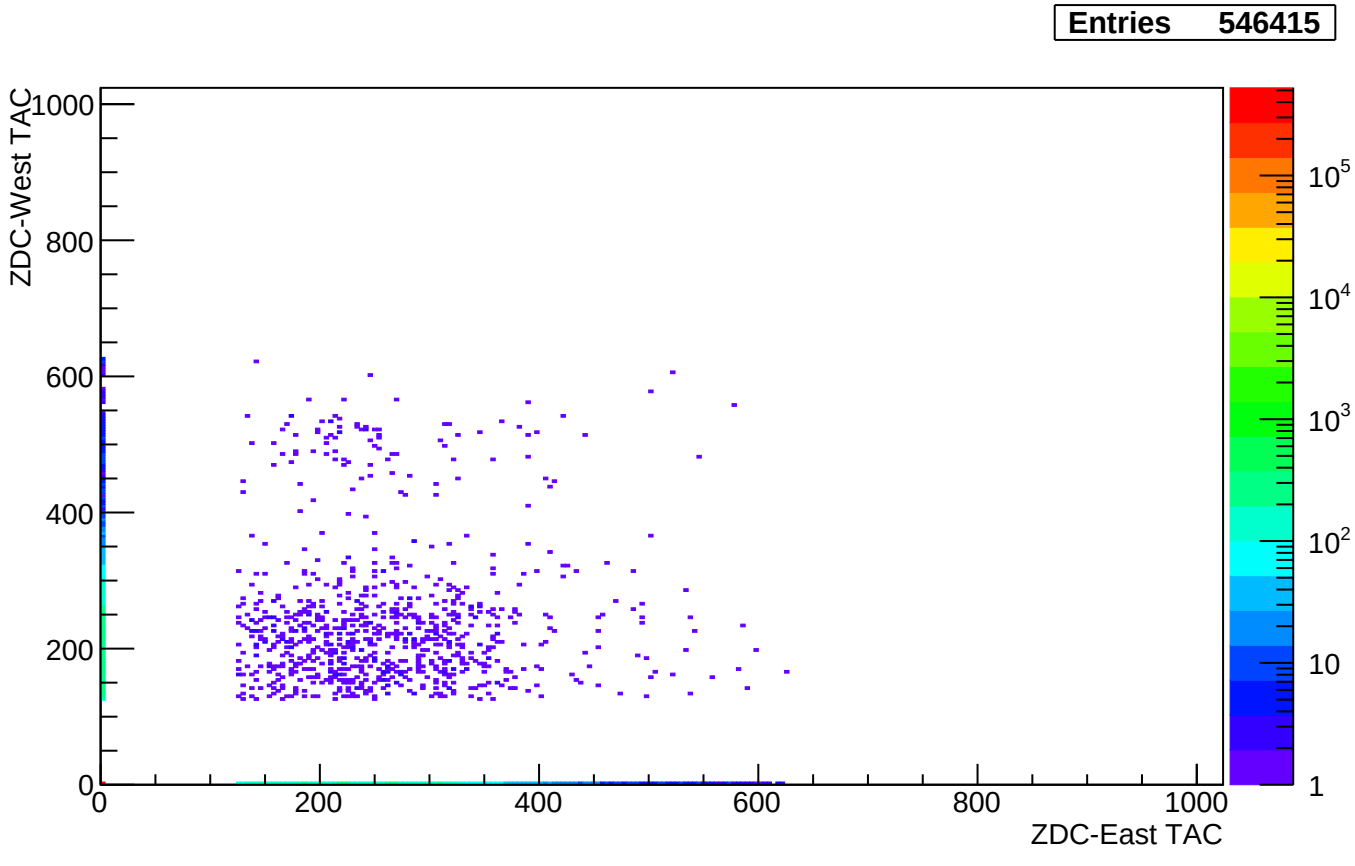

Entries 546415
TOF-Mult
VPD-East ADC Sum

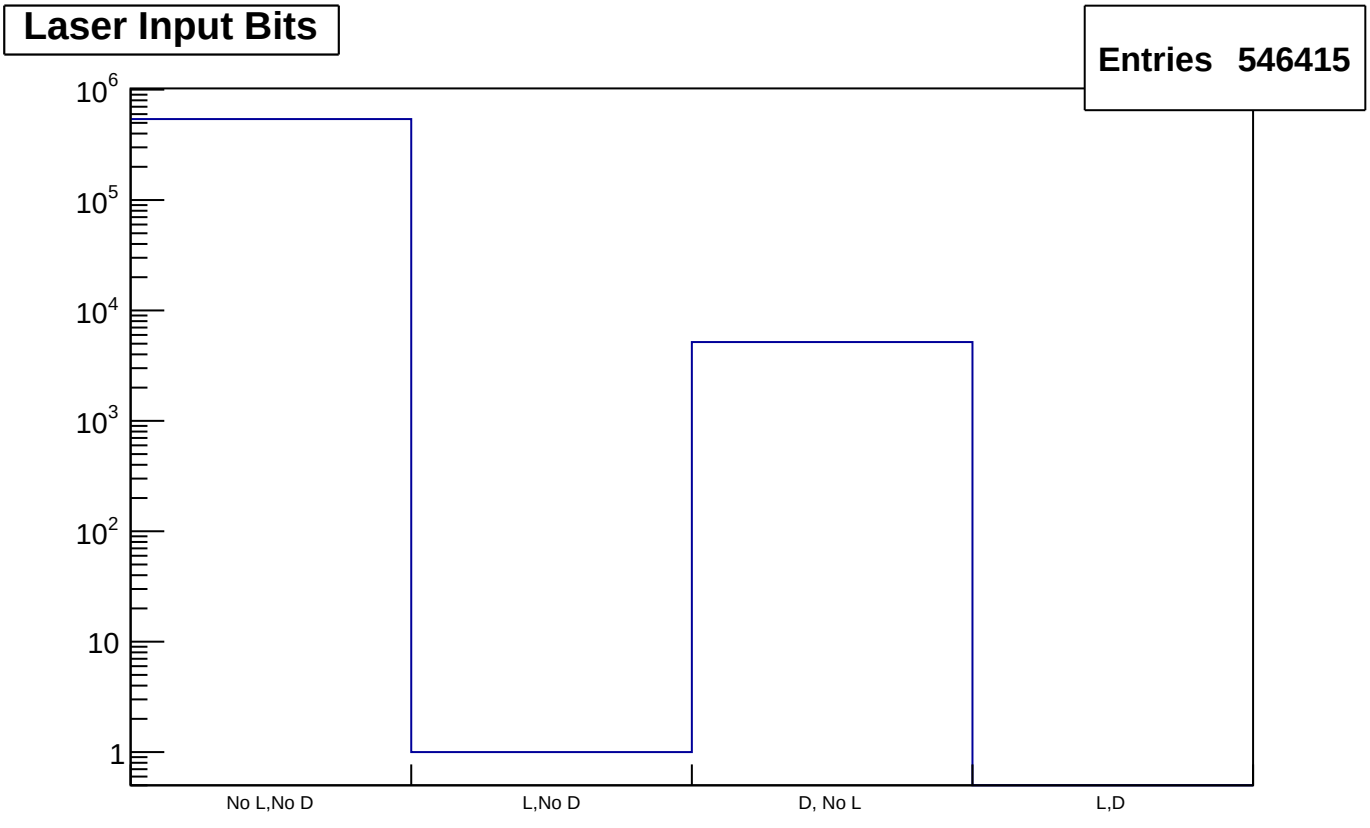

Entries 546415
TOF-Mult
VPD-West ADC Sum

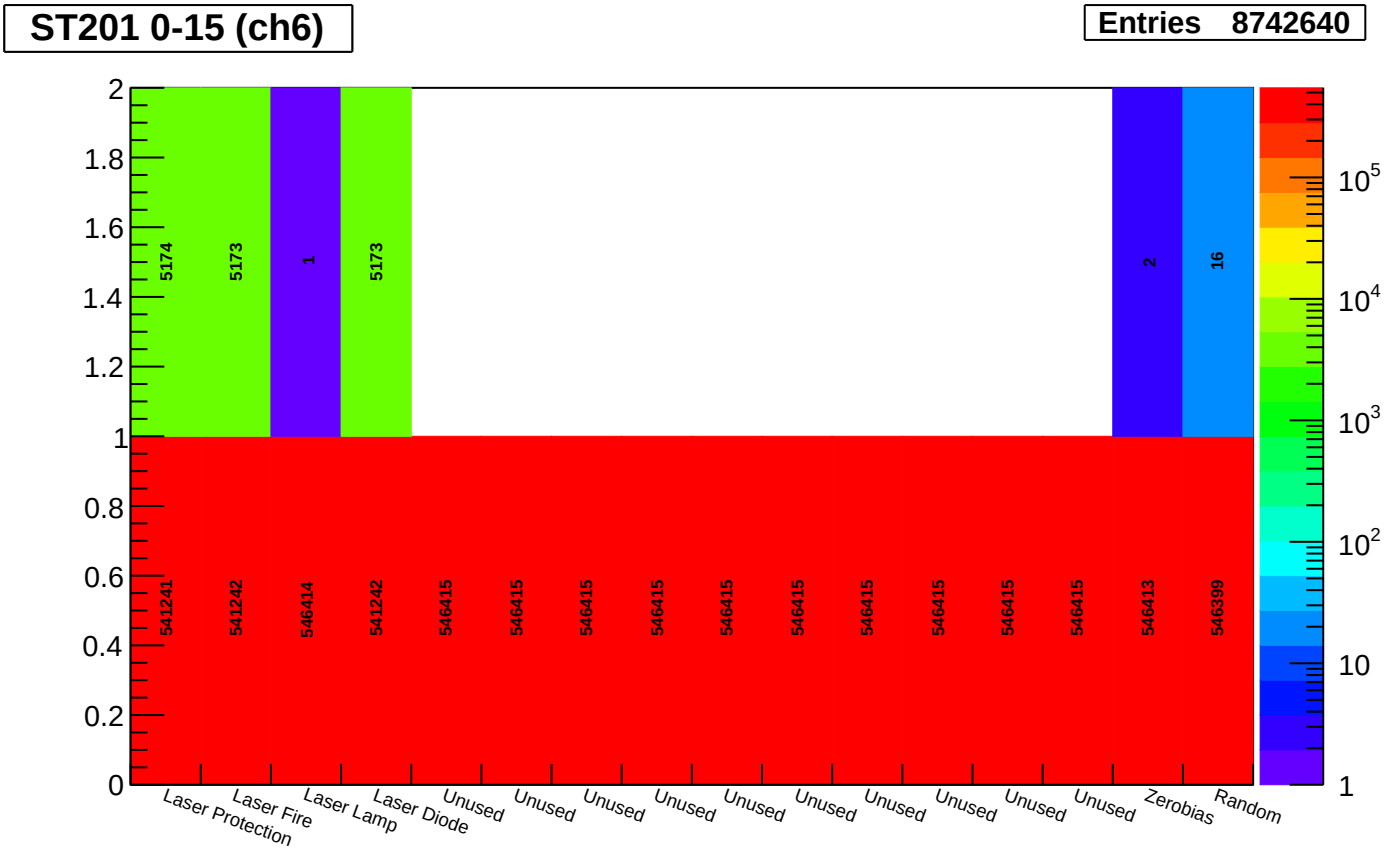

Entries 546415
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

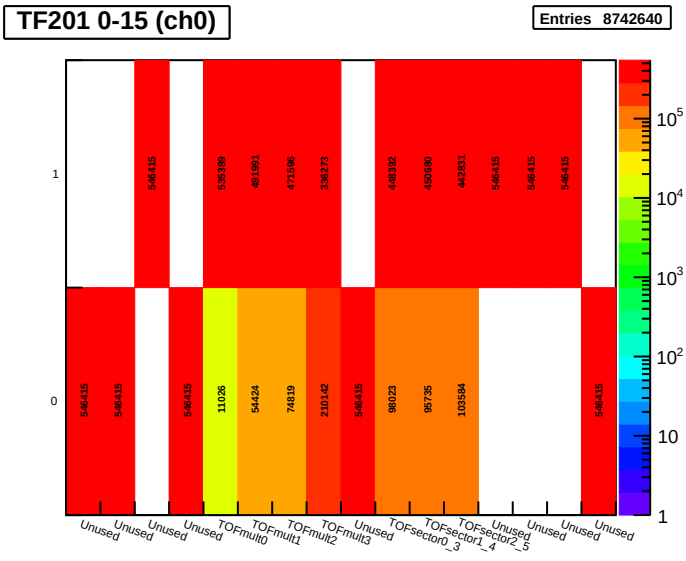

Entries 546415
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

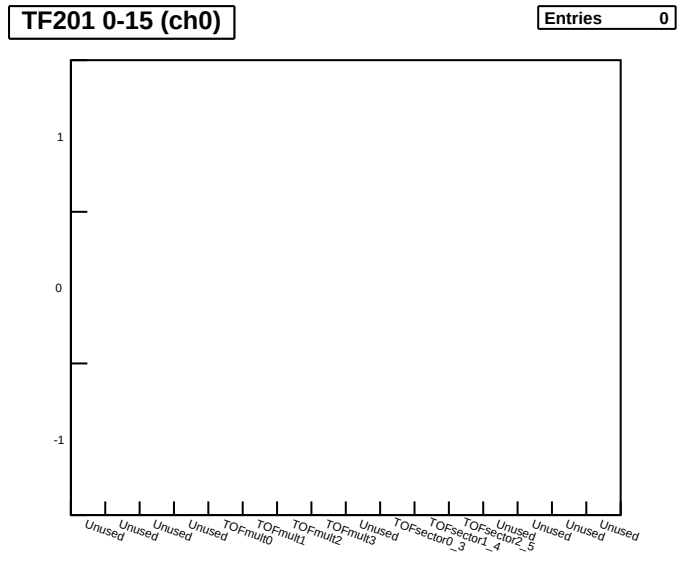

Entries 546415
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

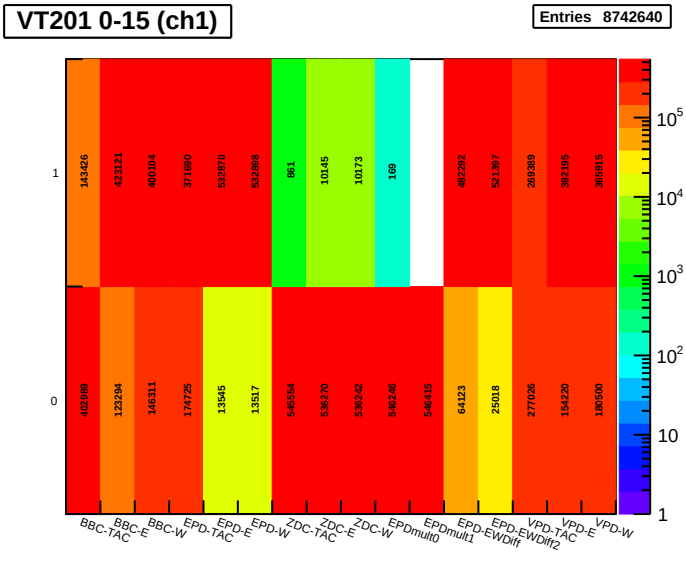

Entries 546415
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

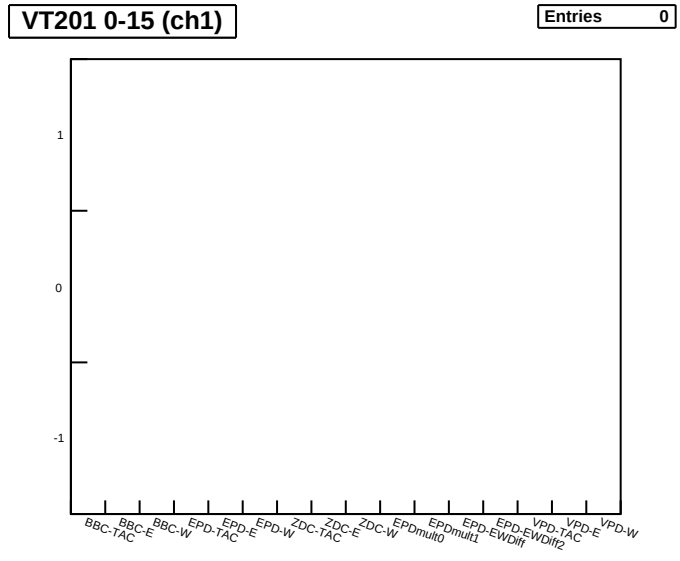

Laser Input Bits
Entries 546415
10^6
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

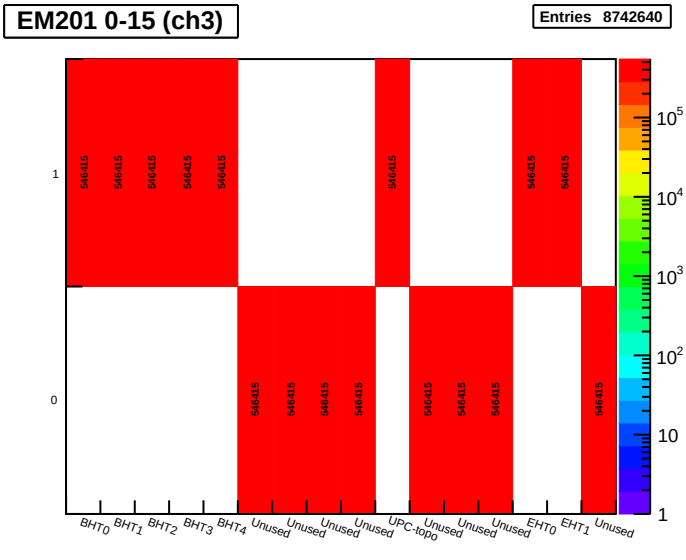

ST201 0-15 (ch6)
Entries 8742640
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5174
5173
1
5173
2
16
541241
541242
546414
541242
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546413
546399
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

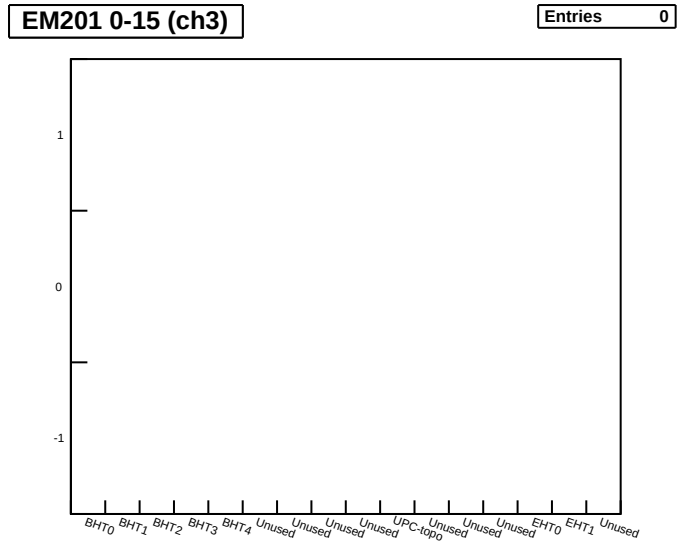

TF201 0-15 (ch0)
Entries 8742640
1
0
546415
535389
491991
471596
336273
448392
450680
442831
546415
546415
546415
546415
546415
546415
11026
54424
74819
210142
546415
98023
95735
103584
546415
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^5
10^4
10^3
10^2
10
1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused


VT201 0-15 (ch1)
Entries 8742640
1
0
143426
423121
400104
371690
532870
532898
861
10145
10173
169
482292
521397
269389
392195
365915
402989
123294
146311
174725
13545
13517
545554
538270
538242
546246
546415
64123
25018
277026
154220
180500
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W
10^5
10^4
10^3
10^2
10
1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W


EM201 0-15 (ch3)
Entries 8742640
1
0
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
546415
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^5
10^4
10^3
10^2
10
1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused