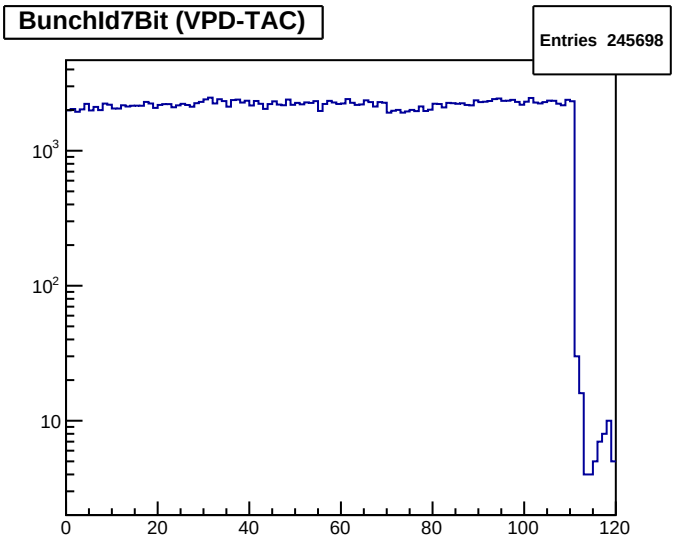
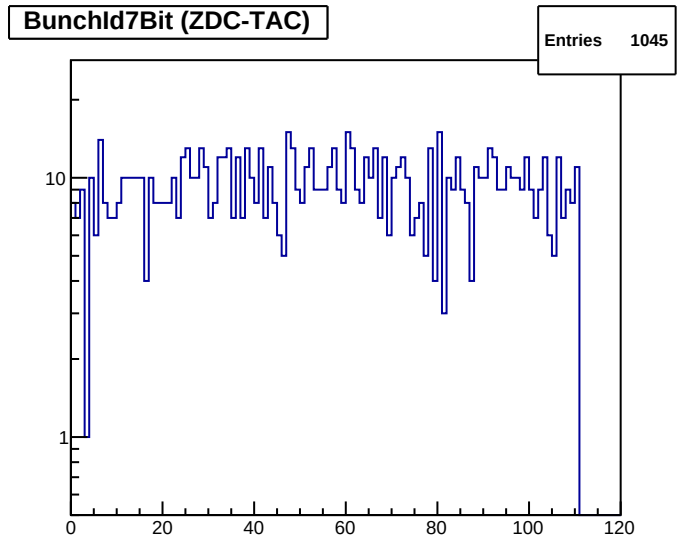
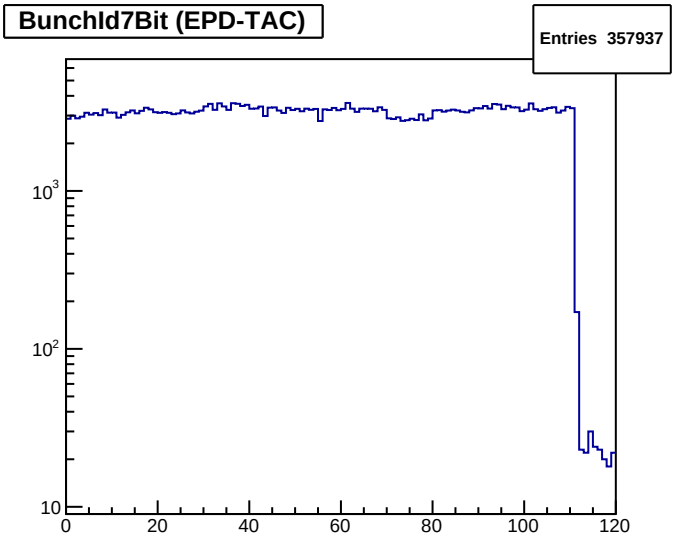
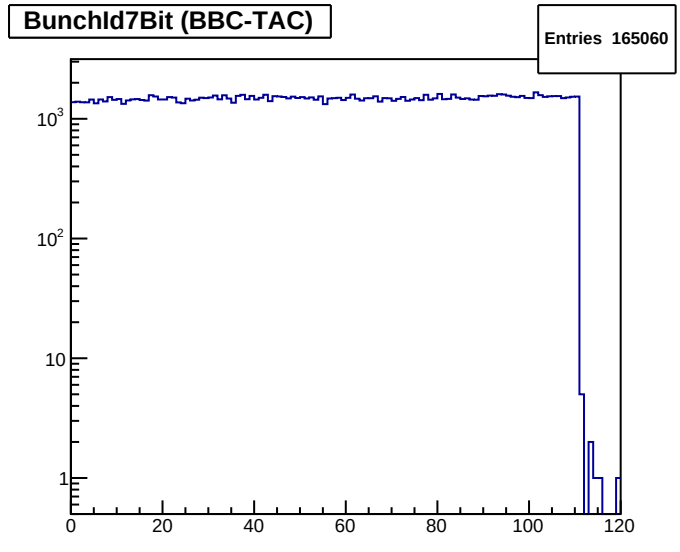
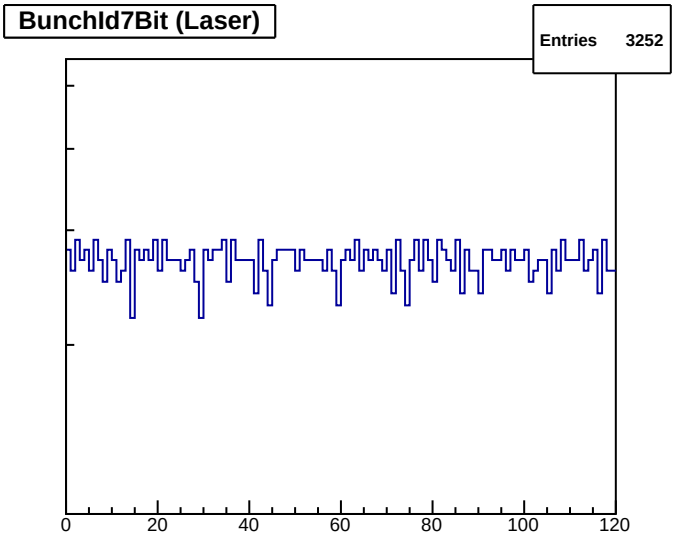
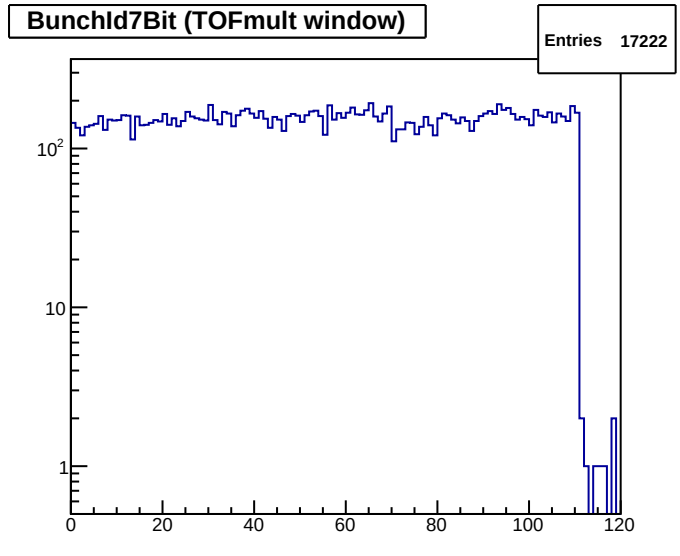

BunchId7Bit (VPD-TAC)
Entries 245698
10^3
10^2
10
0
20
40
60
80
100
120

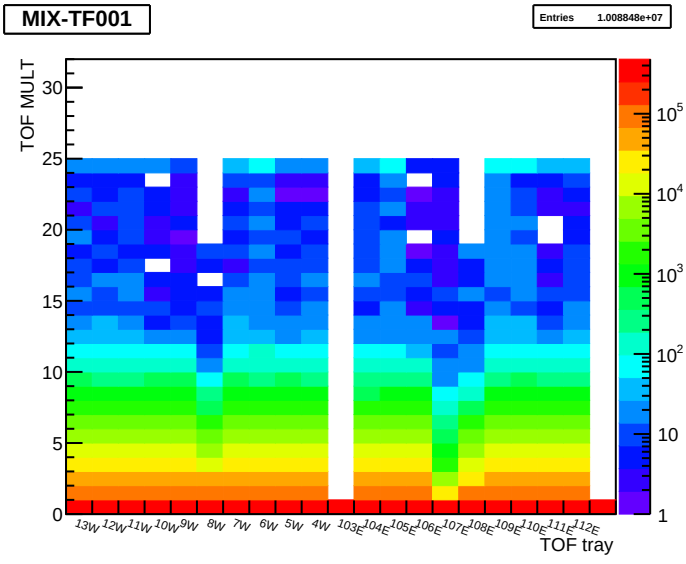

BunchId7Bit (ZDC-TAC)
Entries 1045
10
1
0
20
40
60
80
100
120

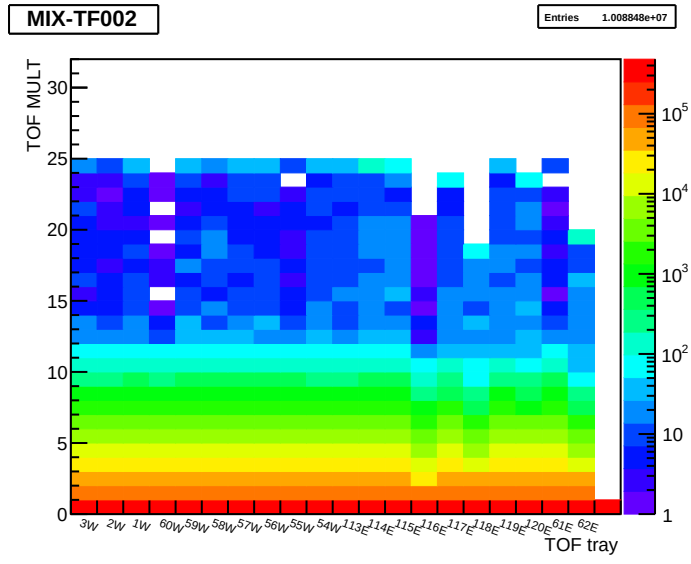

BunchId7Bit (EPD-TAC)
Entries 357937
10^3
10^2
10
0
20
40
60
80
100
120

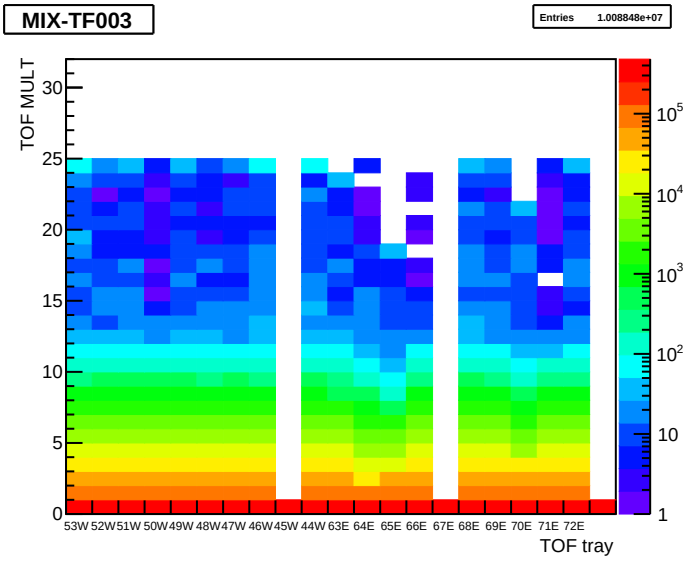

BunchId7Bit (BBC-TAC)
Entries 165060
10^3
10^2
10
1
0
20
40
60
80
100
120

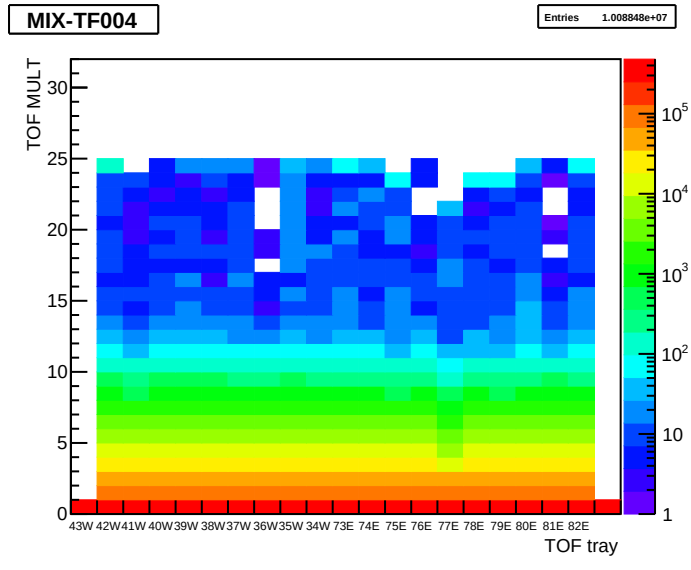

BunchId7Bit (Laser)
Entries 3252
0
20
40
60
80
100
120

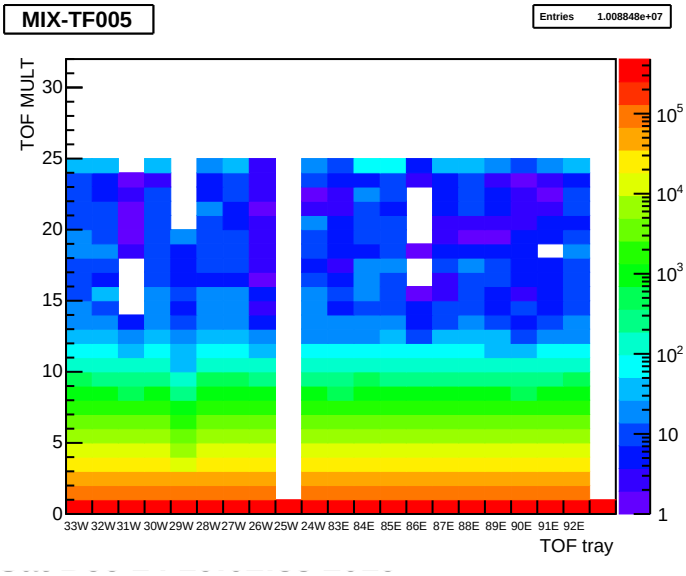

BunchId7Bit (TOFmult window)
Entries 17222
10^2
10
1
0
20
40
60
80
100
120

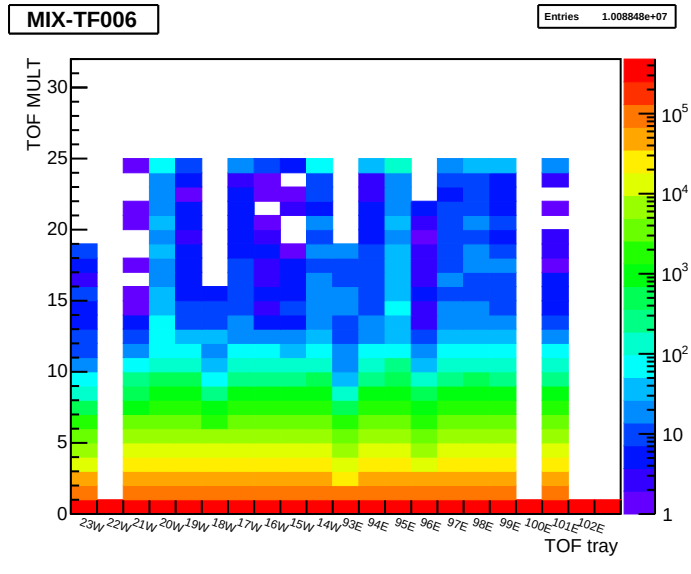

MIX-TF001
Entries 1.008848e+07
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

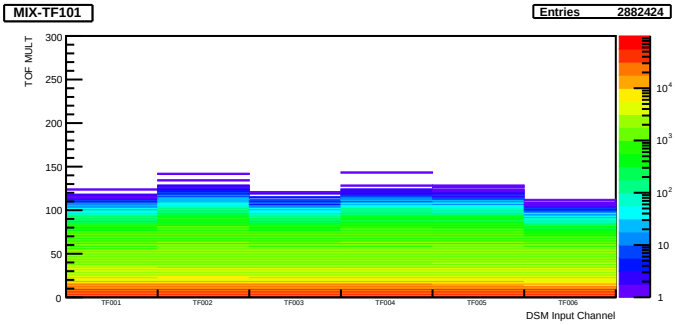

MIX-TF002
Entries 1.008848e+07
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

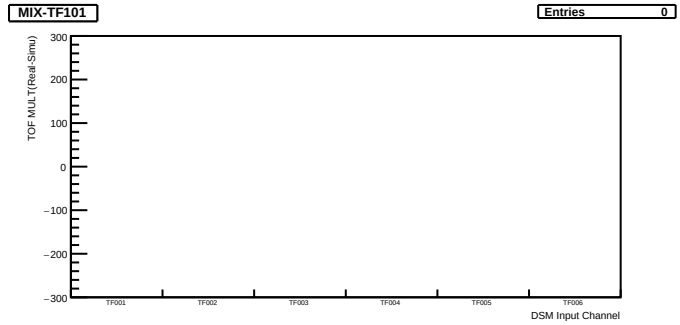

MIX-TF003
Entries 1.008848e+07
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

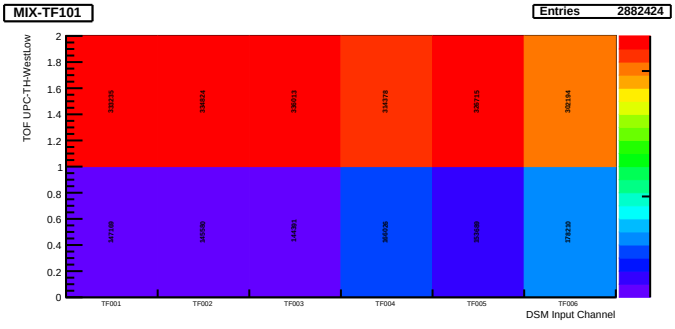

MIX-TF004
Entries 1.008848e+07
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

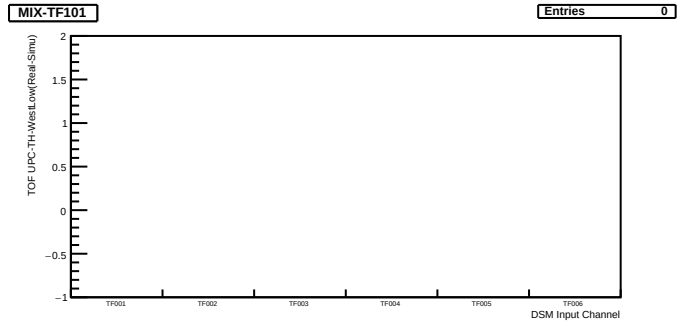

MIX-TF005
Entries 1.008848e+07
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

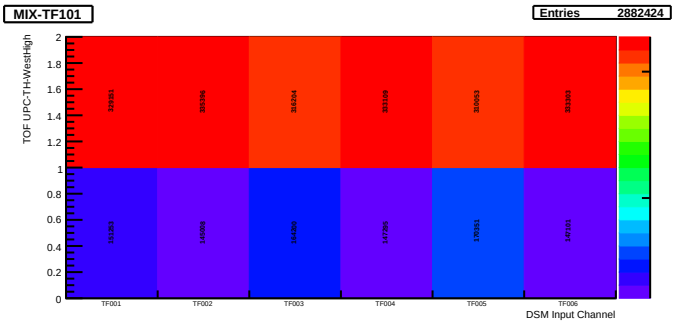

MIX-TF006
Entries 1.008848e+07
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

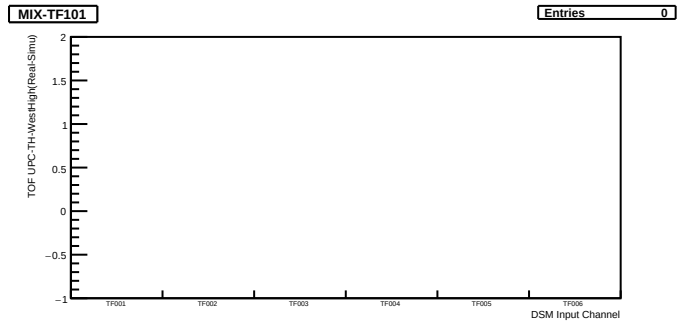

MIX-TF101
Entries 2882424
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

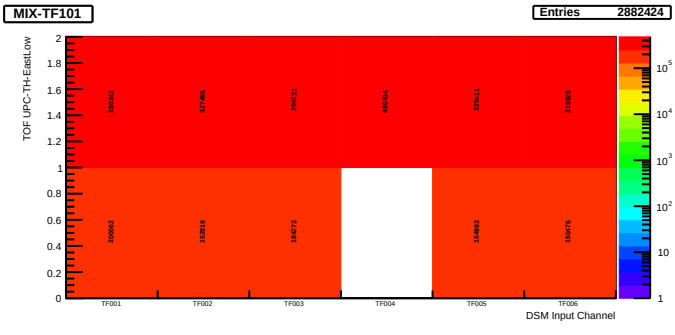

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

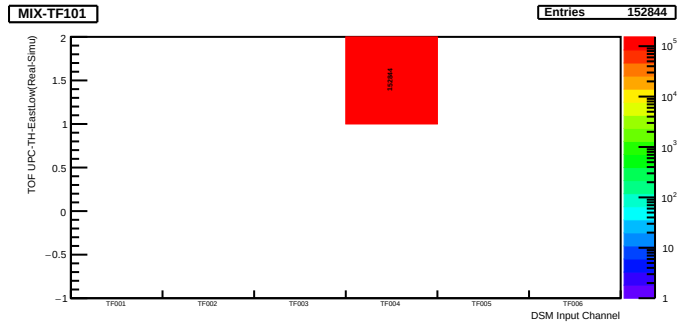

MIX-TF101
Entries 2882424
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

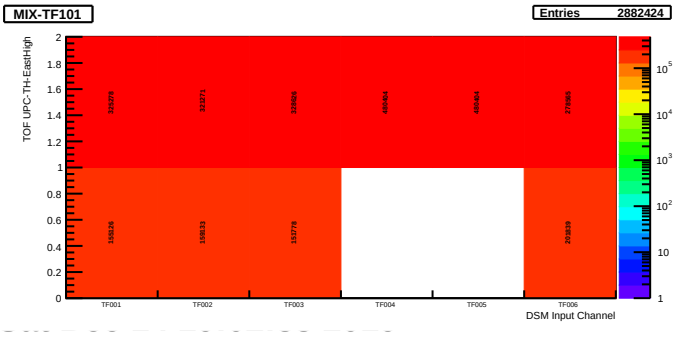

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

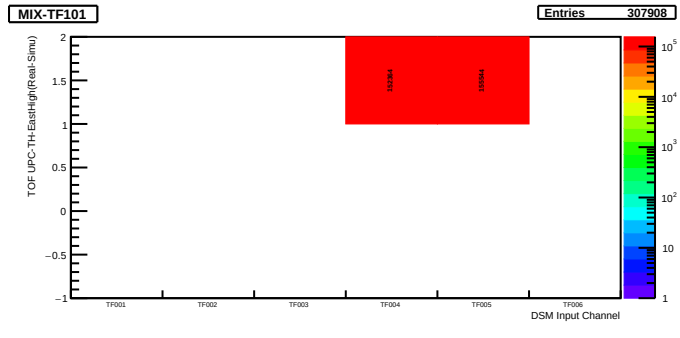

MIX-TF101
Entries 2882424
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

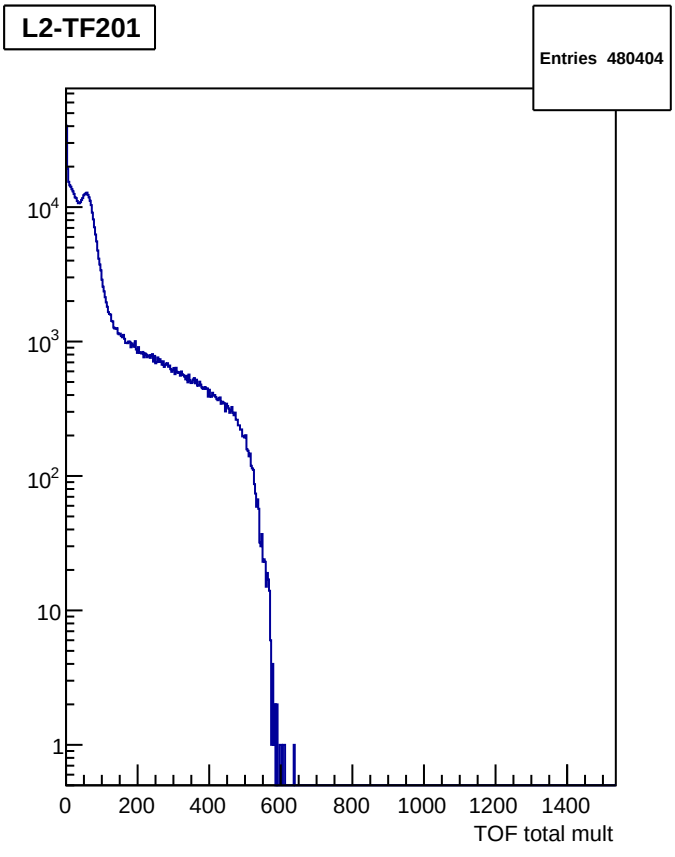

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

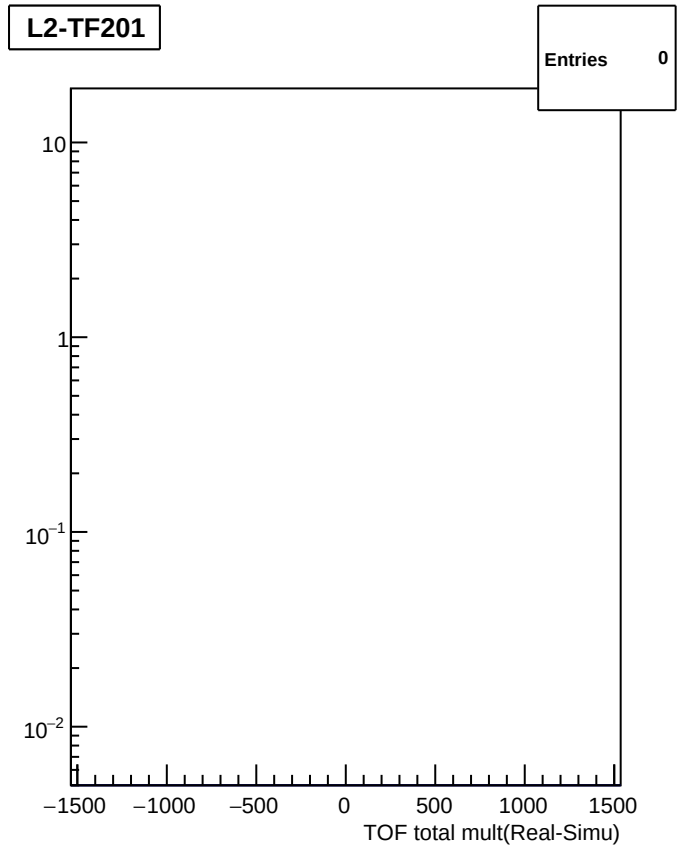

MIX-TF101
Entries 2882424
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

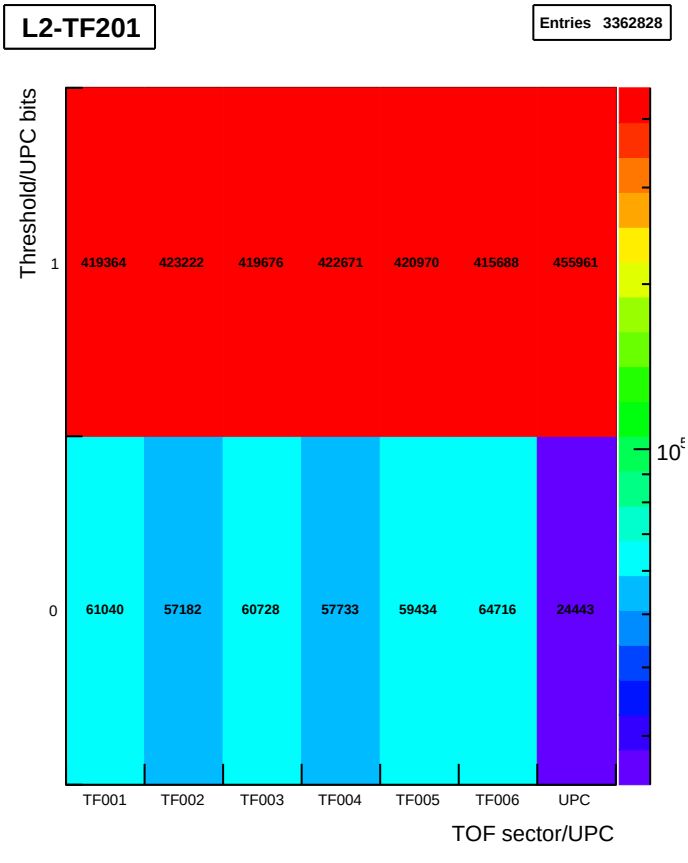

MIX-TF101
Entries 152844
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

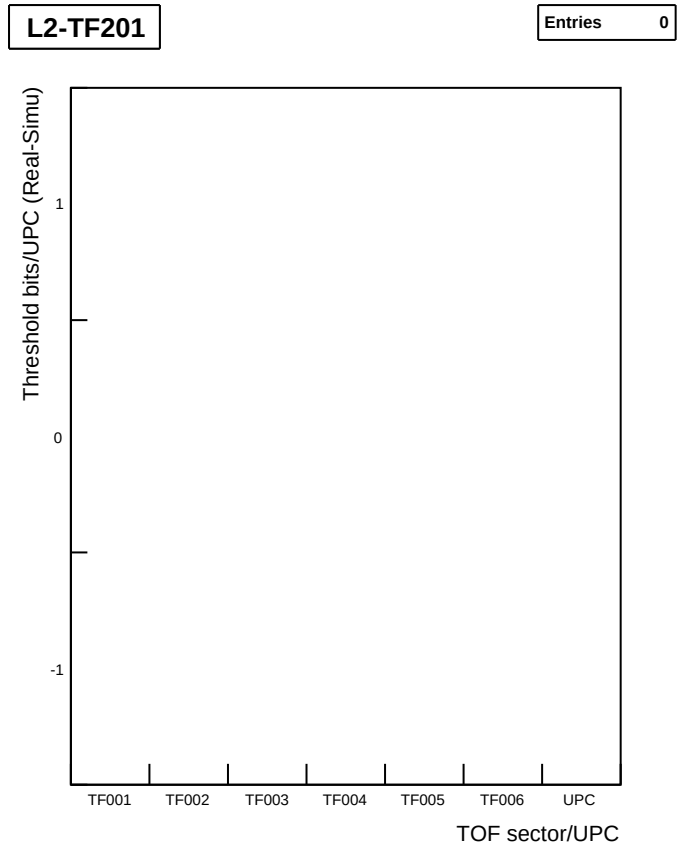

MIX-TF101
Entries 2882424
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

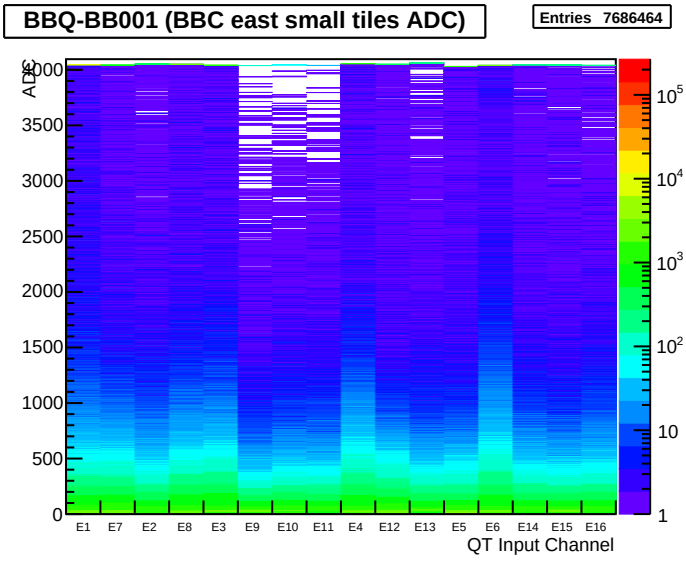

MIX-TF101
Entries 307908
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

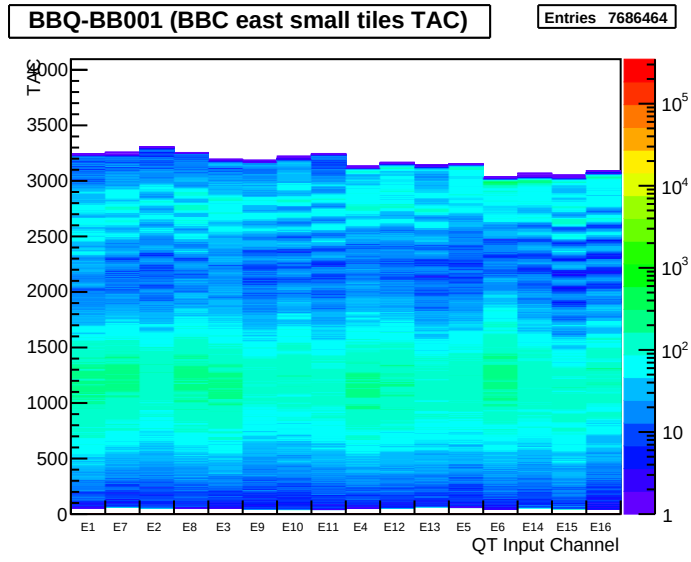

L2-TF201
Entries 480404
TOF total mult

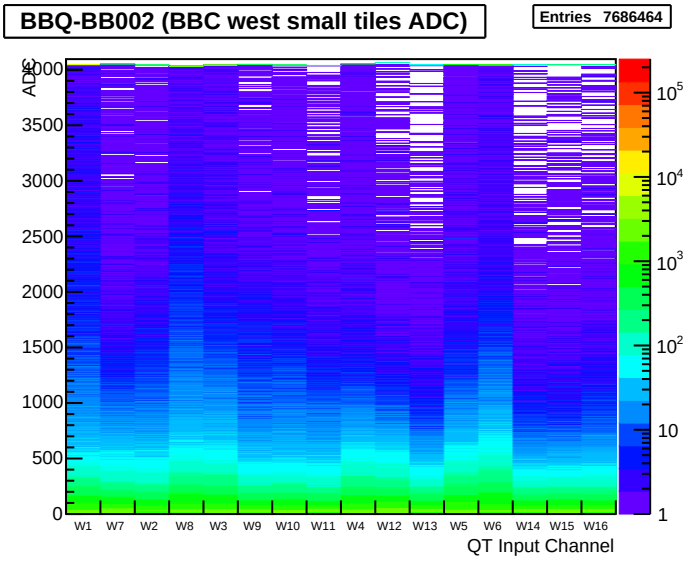

L2-TF201
Entries 0
TOF total mult(Real-Simu)

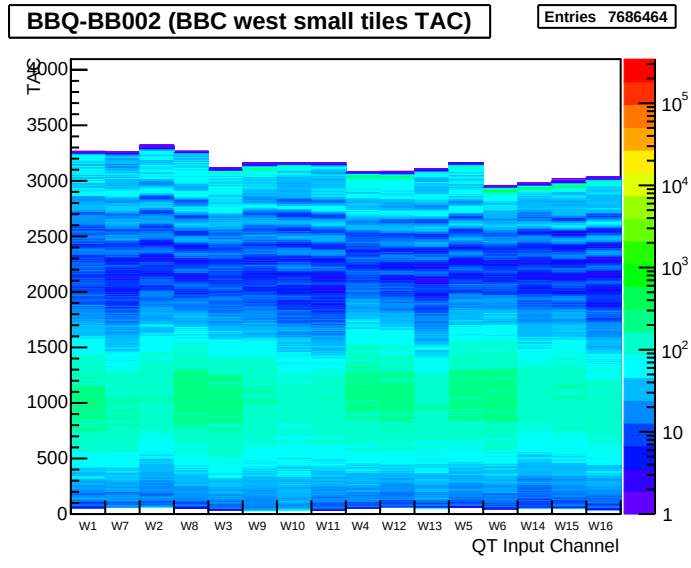

L2-TF201
Entries 3362828
Threshold/UPC bits
419364
423222
419676
422671
420970
415688
455961
61040
57182
60728
57733
59434
64716
24443
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

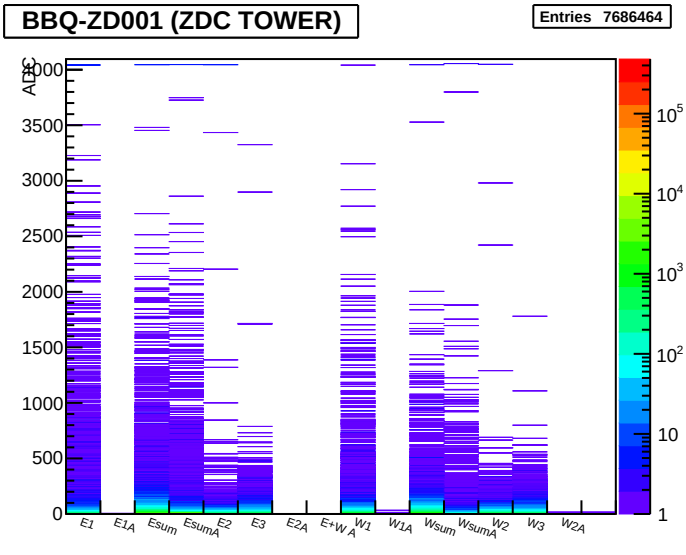

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

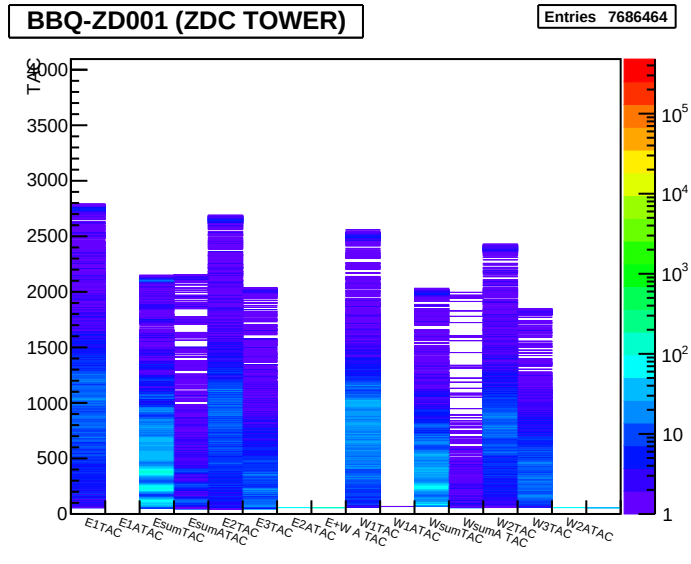

BBQ-BB001 (BBC east small tiles ADC)
Entries 7686464
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

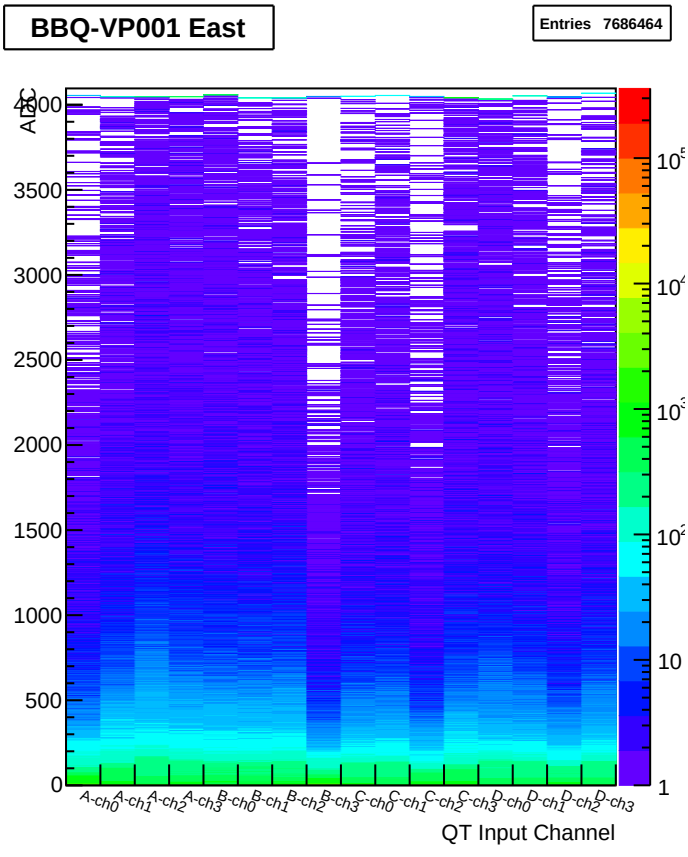

BBQ-BB001 (BBC east small tiles TAC)
Entries 7686464
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

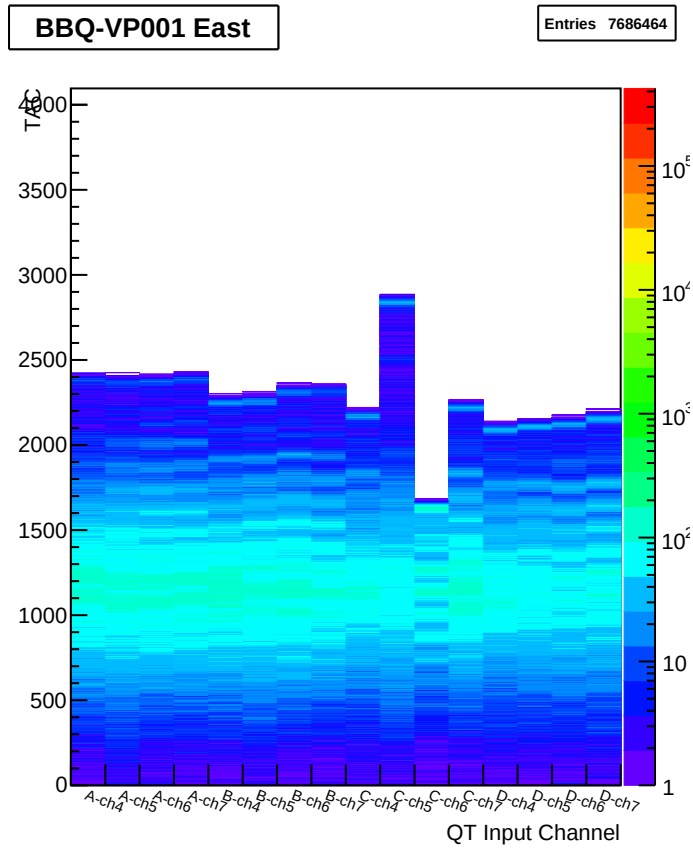

BBQ-BB002 (BBC west small tiles ADC)
Entries 7686464
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

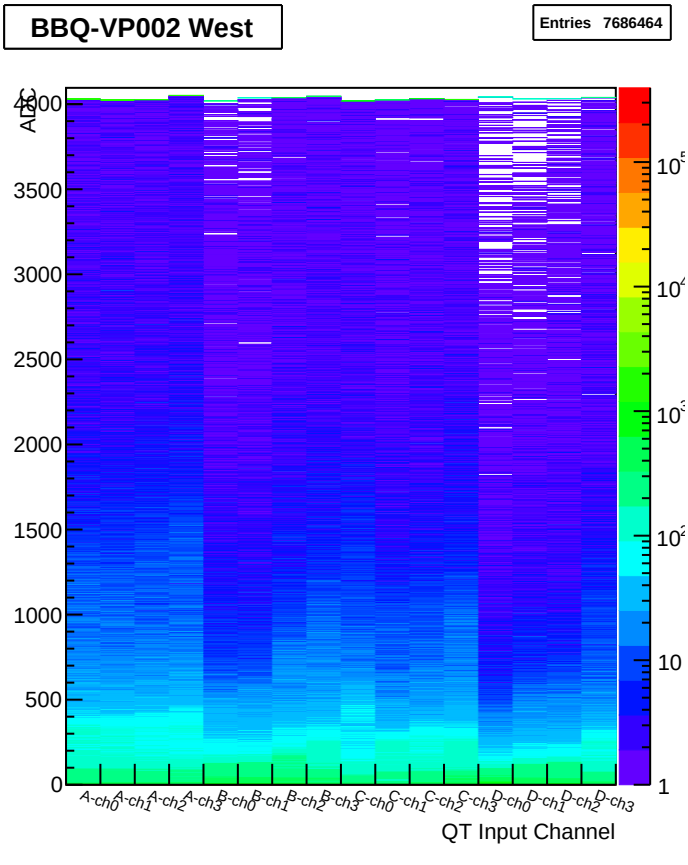

BBQ-BB002 (BBC west small tiles TAC)
Entries 7686464
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

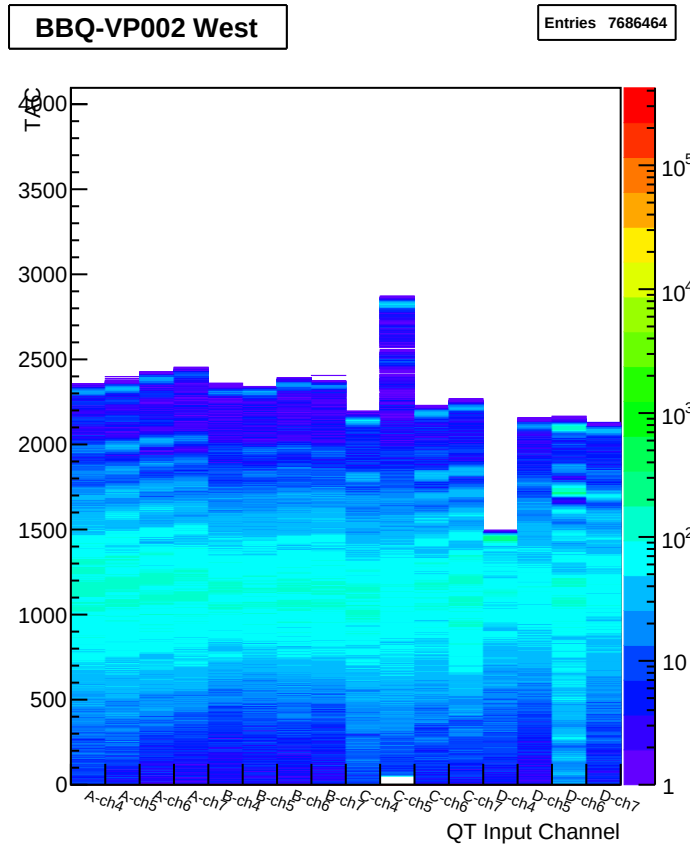

BBQ-ZD001 (ZDC TOWER)
Entries 7686464
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

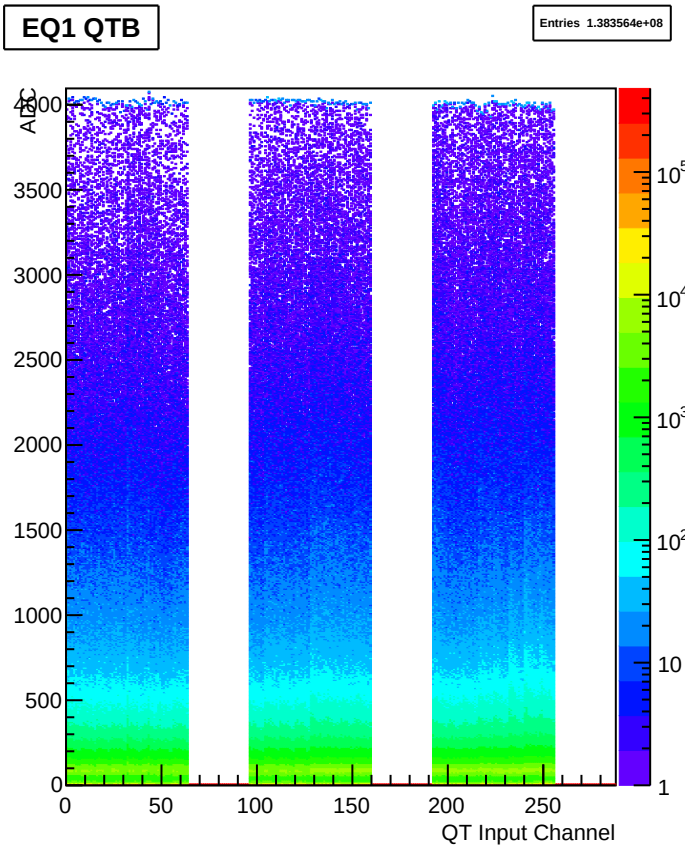

BBQ-ZD001 (ZDC TOWER)
Entries 7686464
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

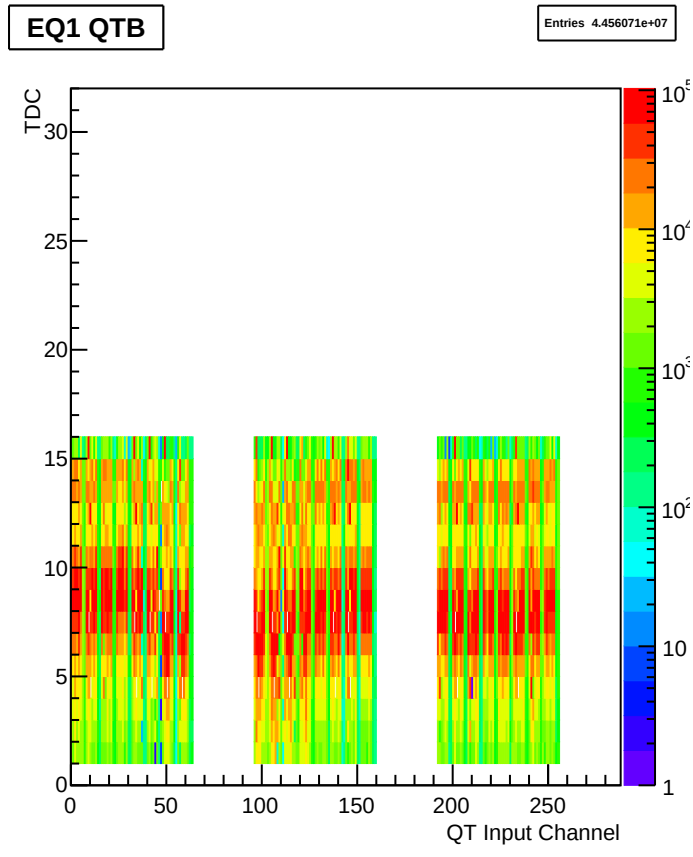

BBQ-VP001 East
Entries 7686464
ADC
QT Input Channel

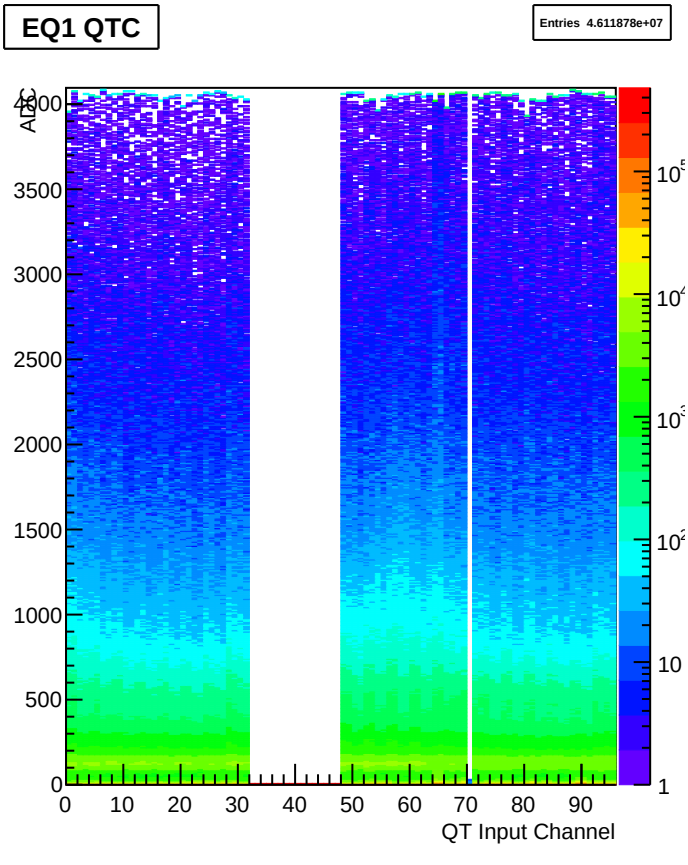

BBQ-VP001 East
Entries 7686464
TADC
QT Input Channel

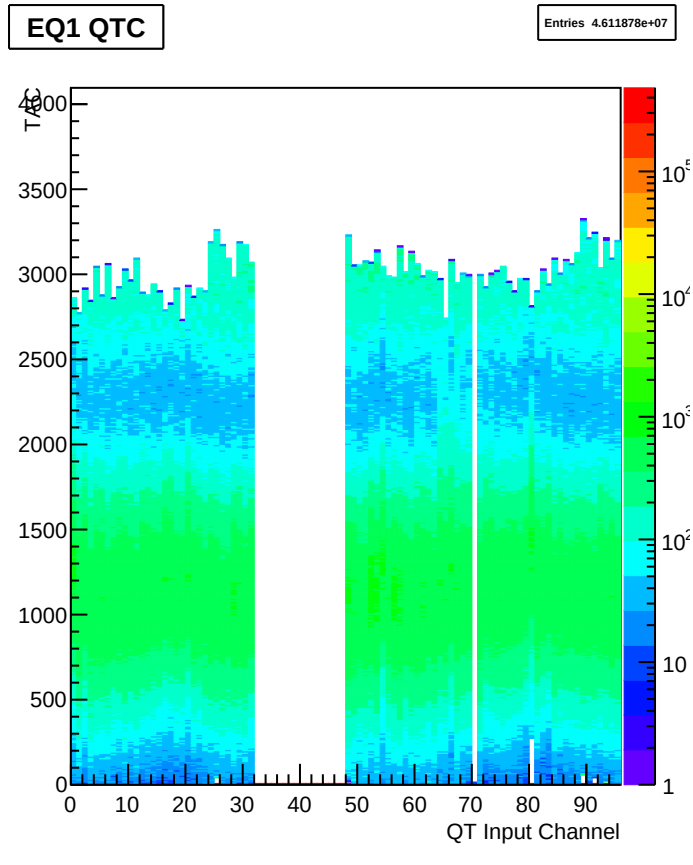

BBQ-VP002 West
Entries 7686464
ADC
QT Input Channel

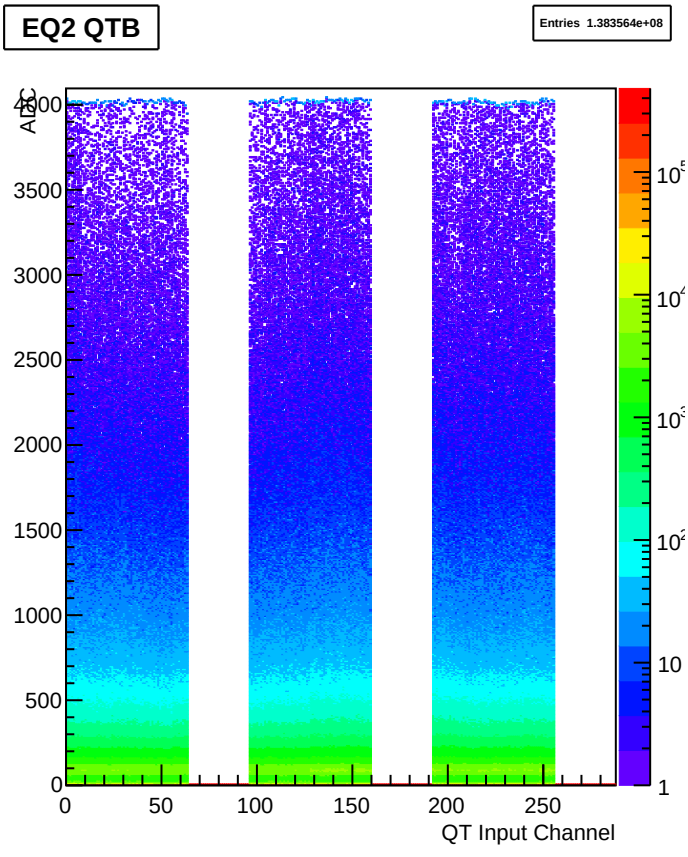

BBQ-VP002 West
Entries 7686464
TADC
QT Input Channel

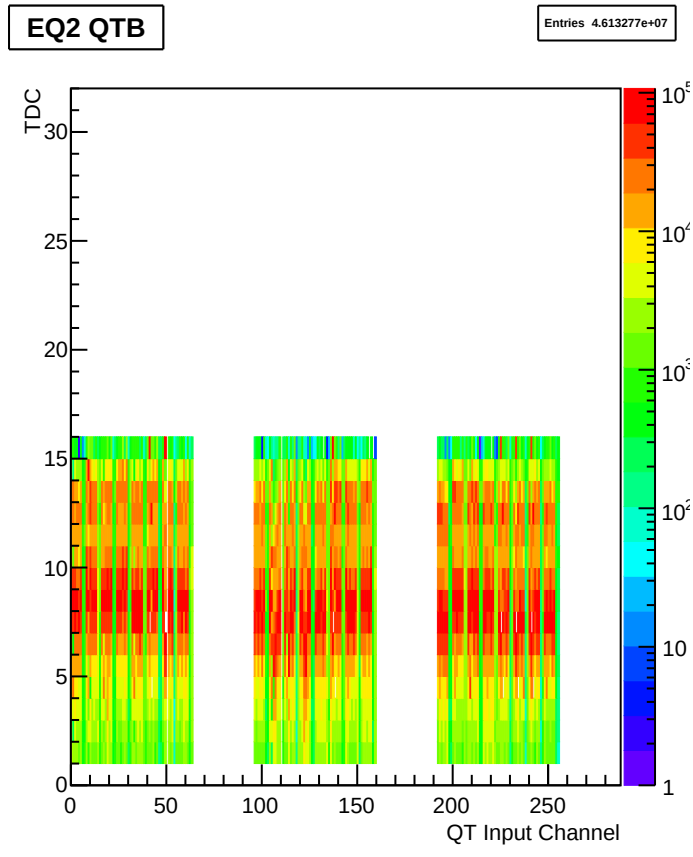

EQ1 QTB
Entries 1.383564e+08
ADC
QT Input Channel

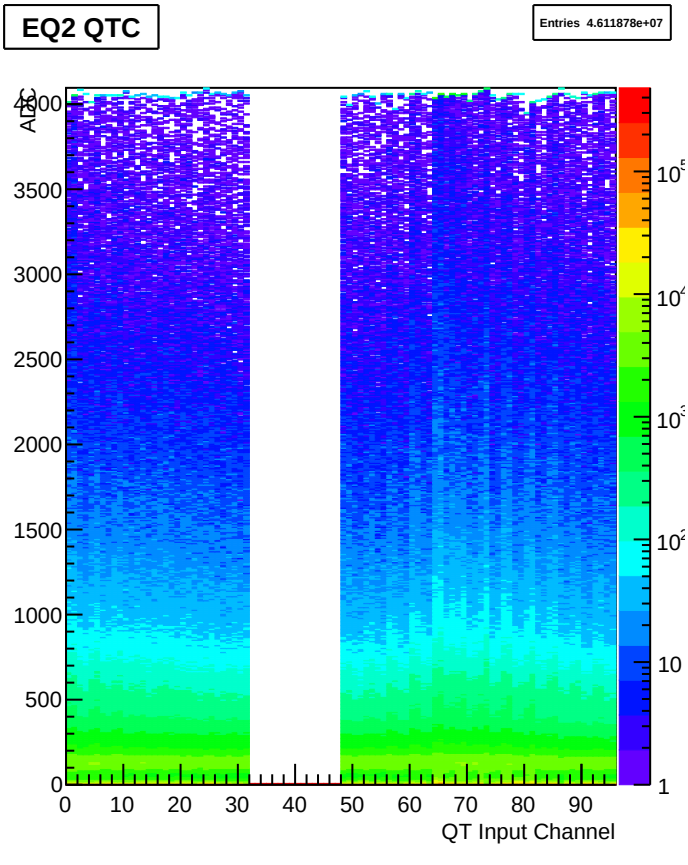

EQ1 QTB
Entries 4.456071e+07
TDC
QT Input Channel

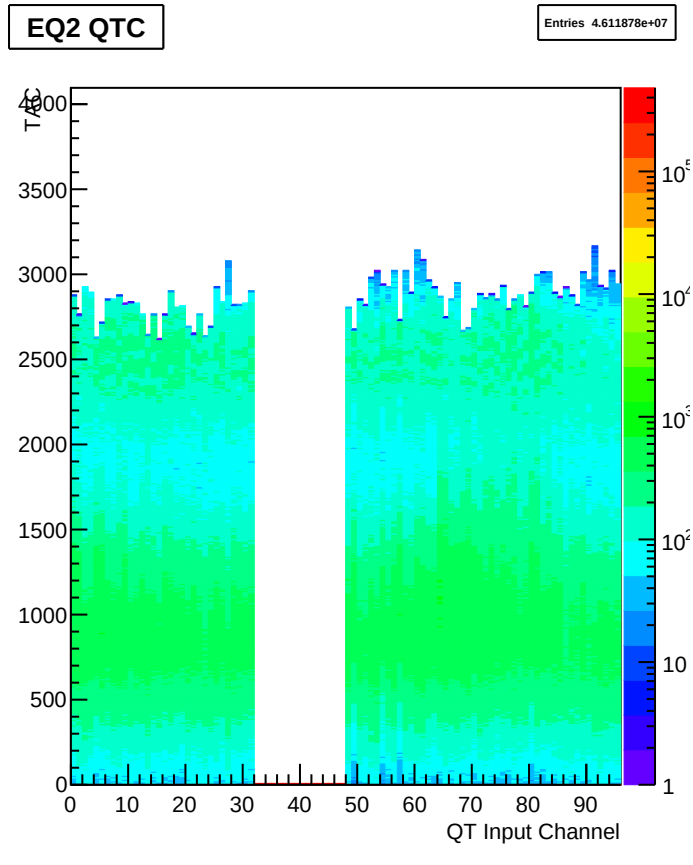

EQ1 QTC
Entries 4.611878e+07
ADC
QT Input Channel

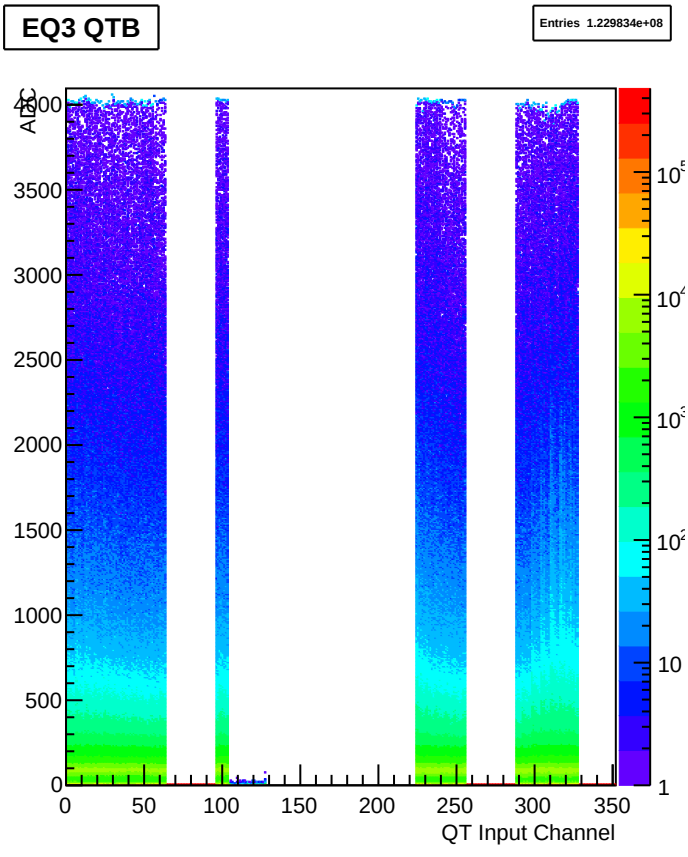

EQ1 QTC
Entries 4.611878e+07
TADC
QT Input Channel

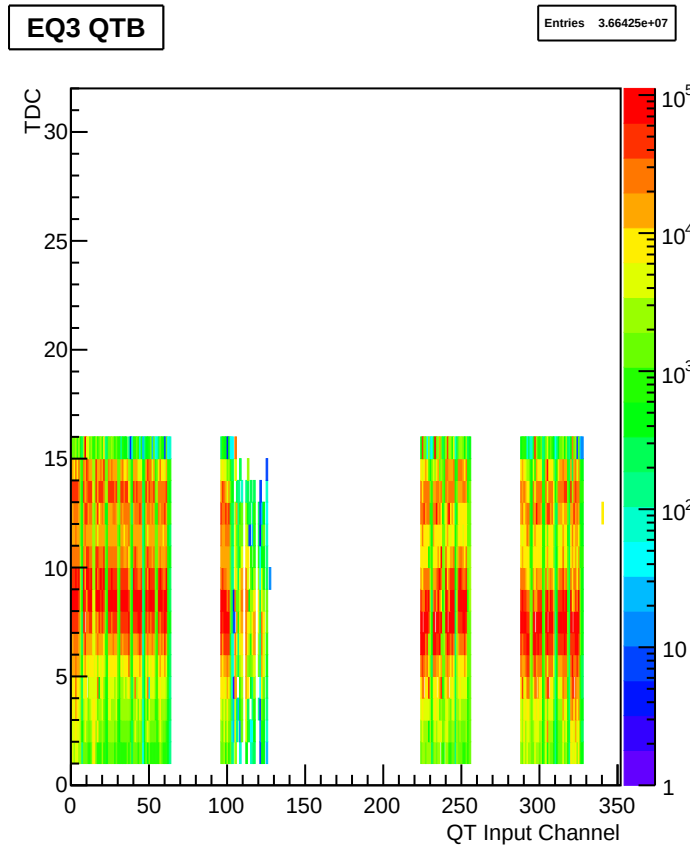

EQ2 QTB
Entries 1.383564e+08
ADC
QT Input Channel

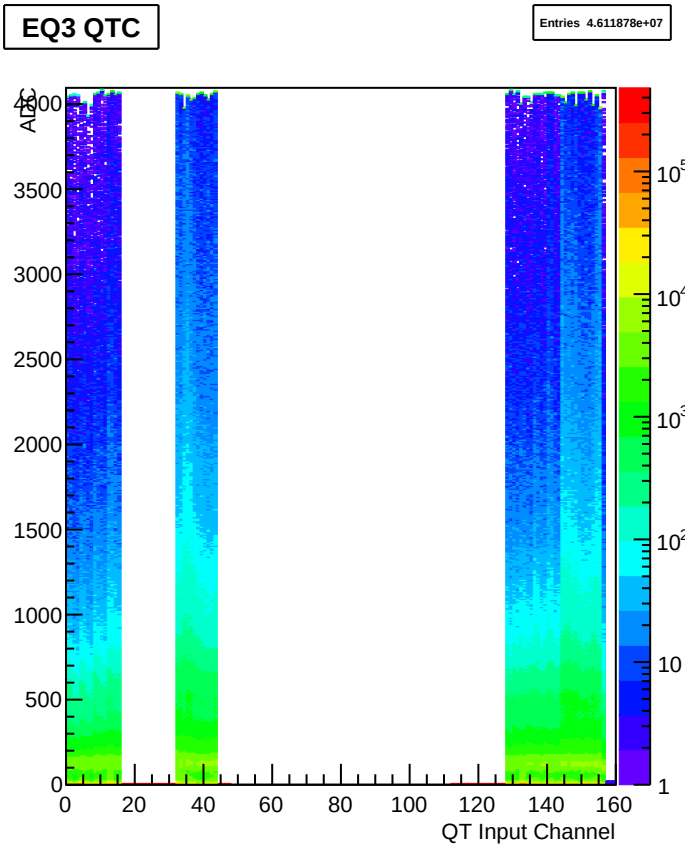

EQ2 QTB
Entries 4.613277e+07
TDC
QT Input Channel

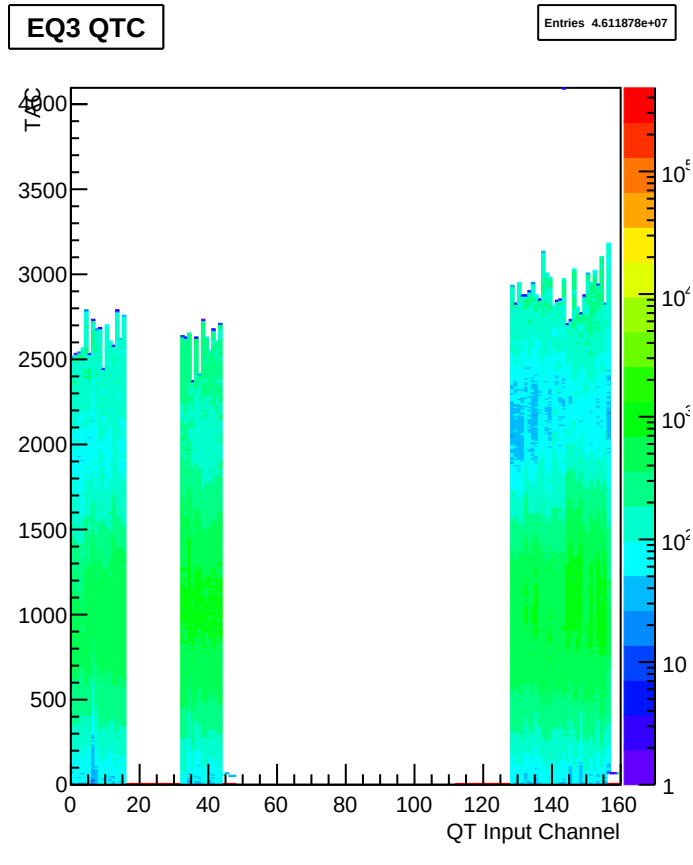

EQ2 QTC
Entries 4.611878e+07
ADC
QT Input Channel

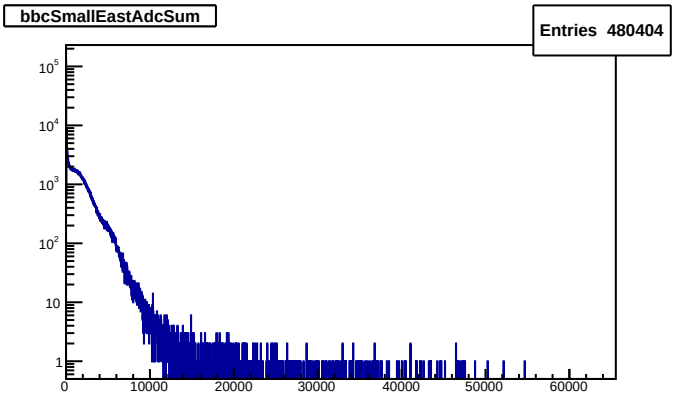

EQ2 QTC
Entries 4.611878e+07
TADC
QT Input Channel

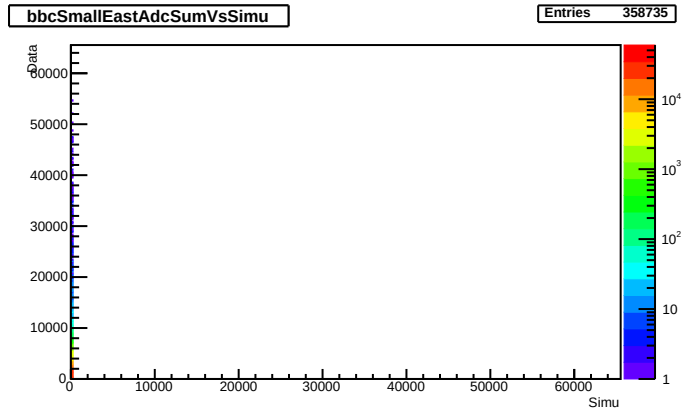

EQ3 QTB
Entries 1.229834e+08
ADC
QT Input Channel

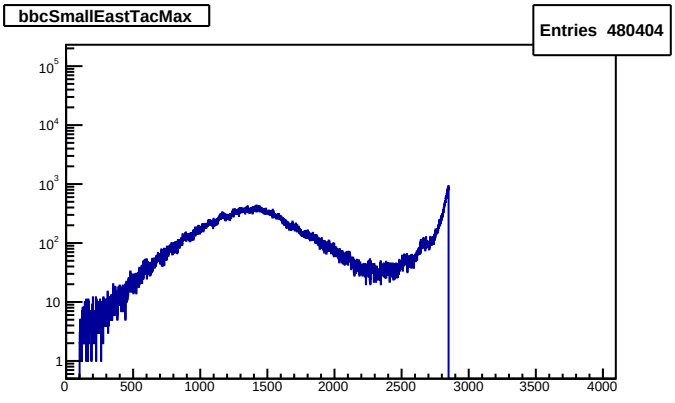

EQ3 QTB
Entries 3.66425e+07
TDC
QT Input Channel

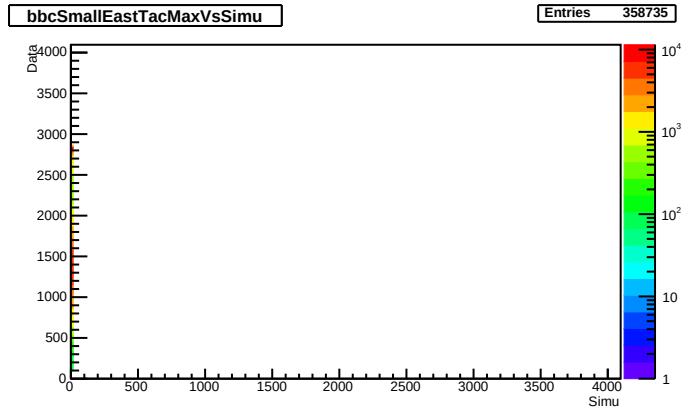

EQ3 QTC
Entries 4.611878e+07
ADC
QT Input Channel

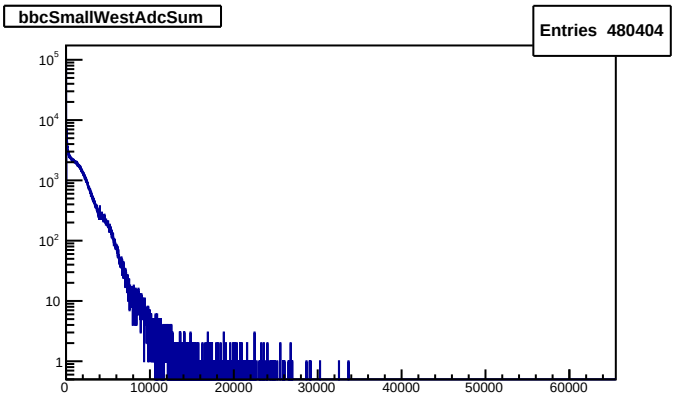

EQ3 QTC
Entries 4.611878e+07
TADC
QT Input Channel

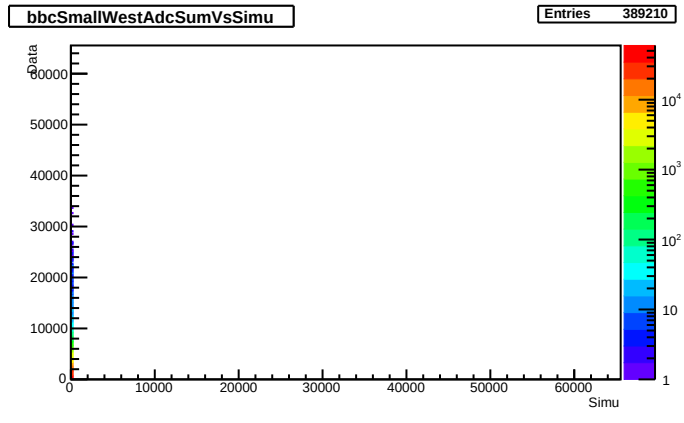

bbcSmallEastAdcSum
Entries 480404

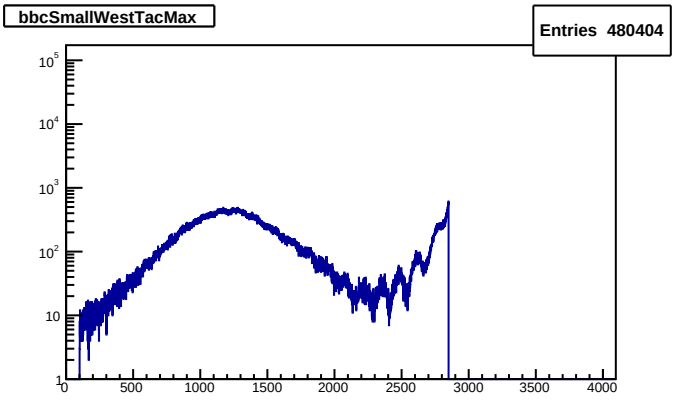

bbcSmallEastAdcSumVsSimu
Entries 358735
Data
Simu

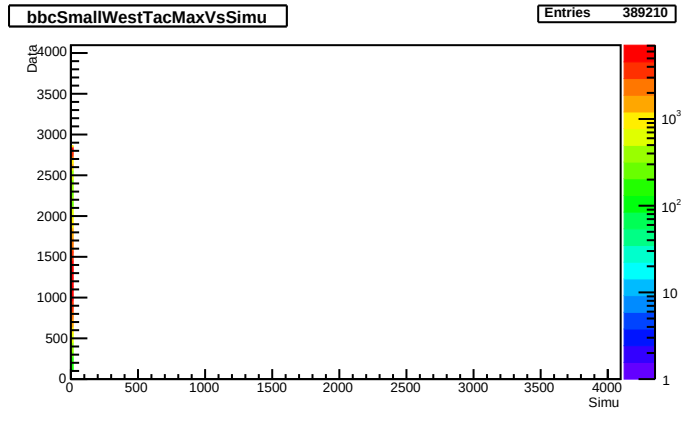

bbcSmallEastTacMax
Entries 480404

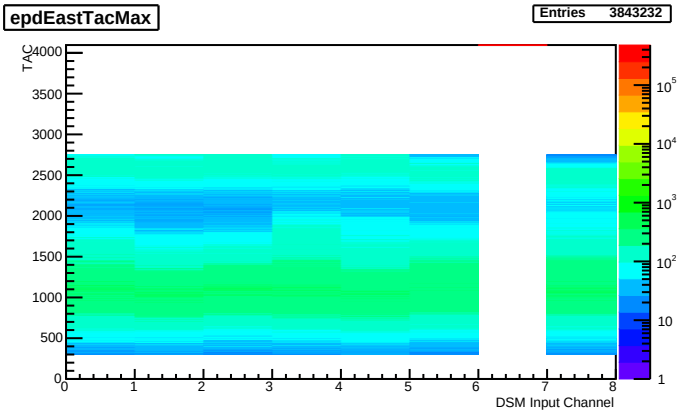

bbcSmallEastTacMaxVsSimu
Entries 358735
Data
Simu

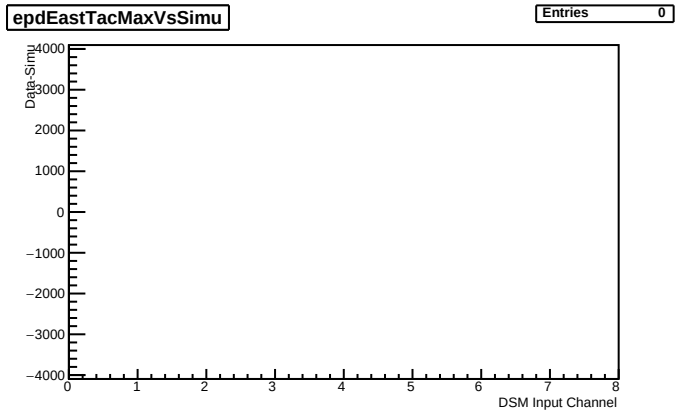

bbcSmallWestAdcSum
Entries 480404

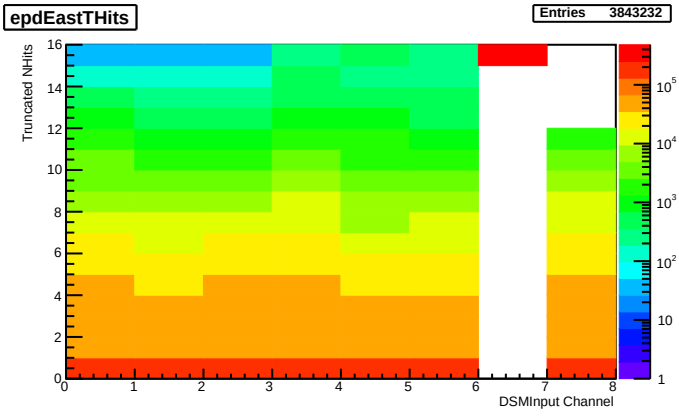

bbcSmallWestAdcSumVsSimu
Entries 389210
Data
Simu

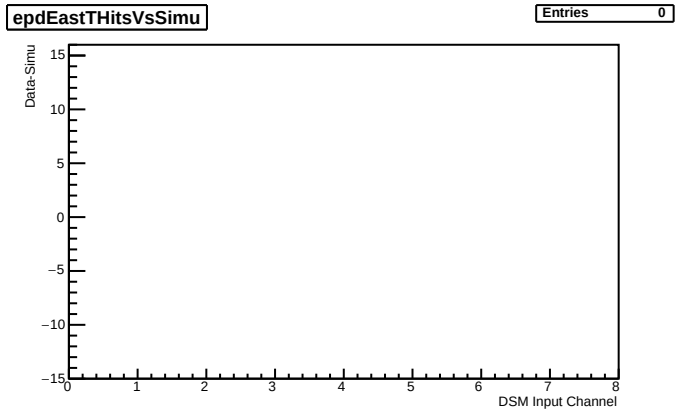

bbcSmallWestTacMax
Entries 480404

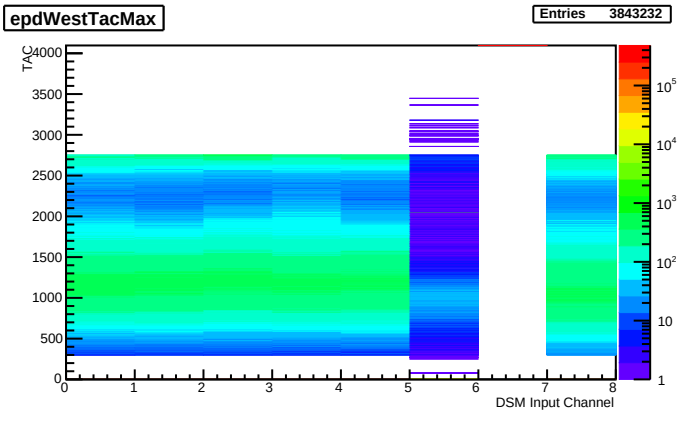

bbcSmallWestTacMaxVsSimu
Entries 389210
Data
Simu

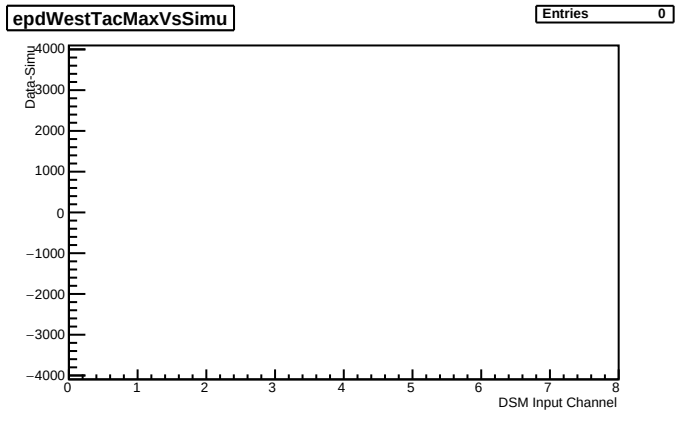

epdEastTacMax
Entries 3843232
TAC
DSM Input Channel

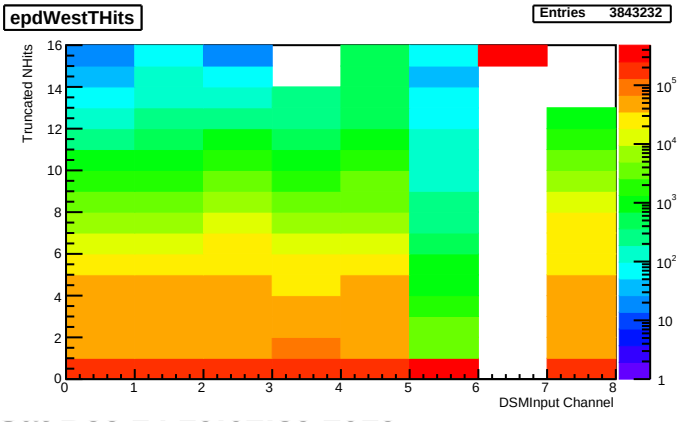

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

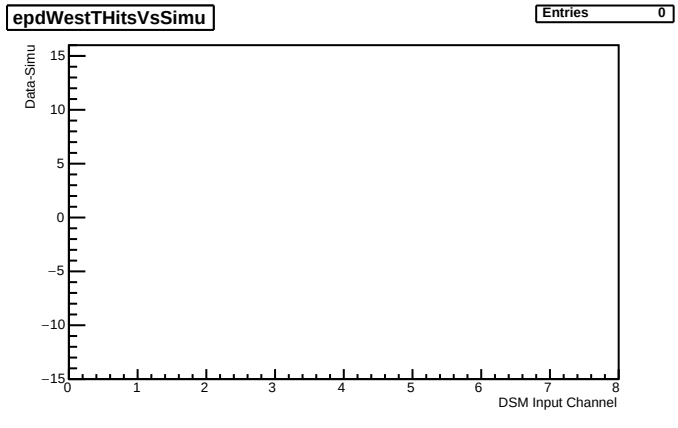

epdEastTHits
Entries 3843232
Truncated NHits
DSMInput Channel

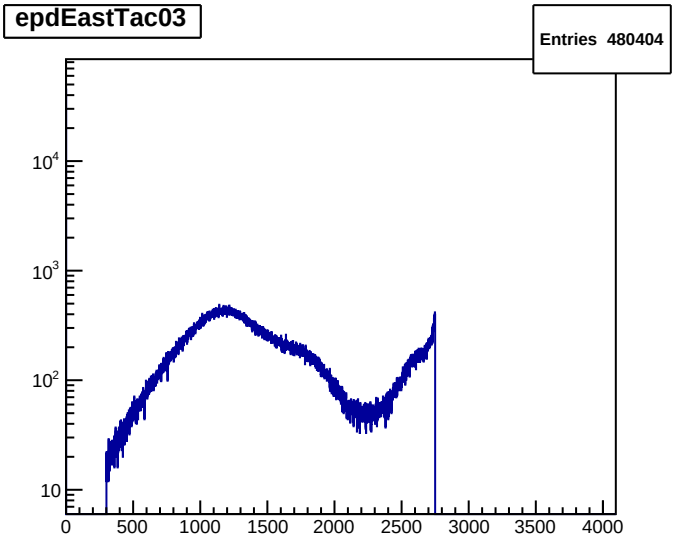

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

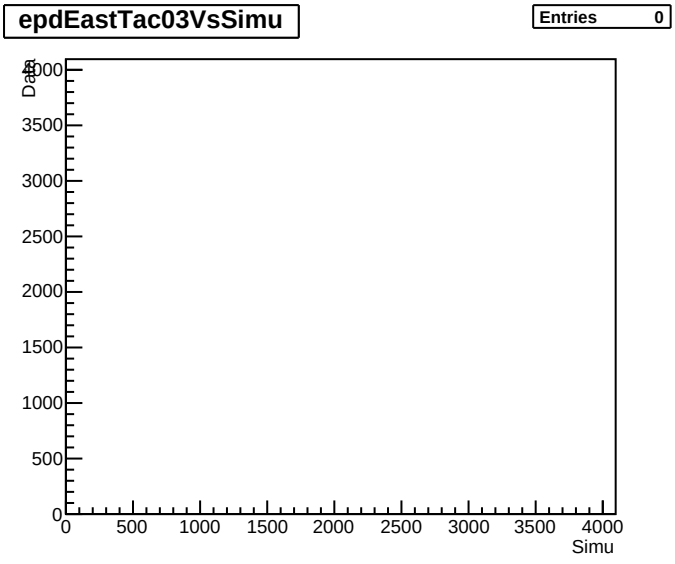

epdWestTacMax
Entries 3843232
TAC
DSM Input Channel

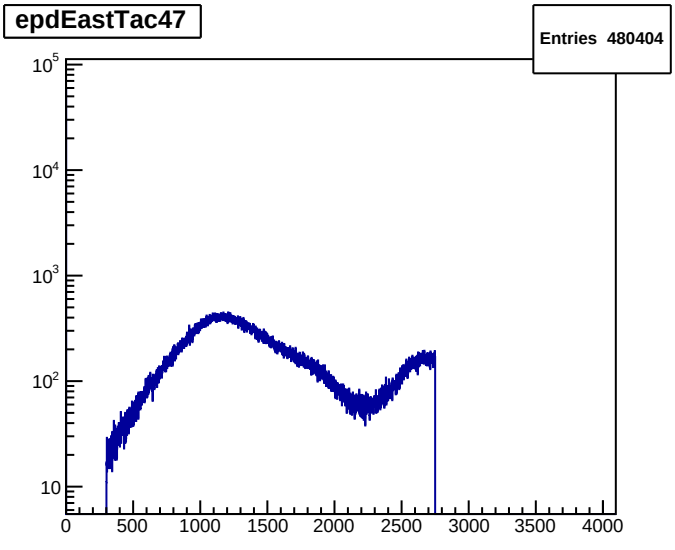

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

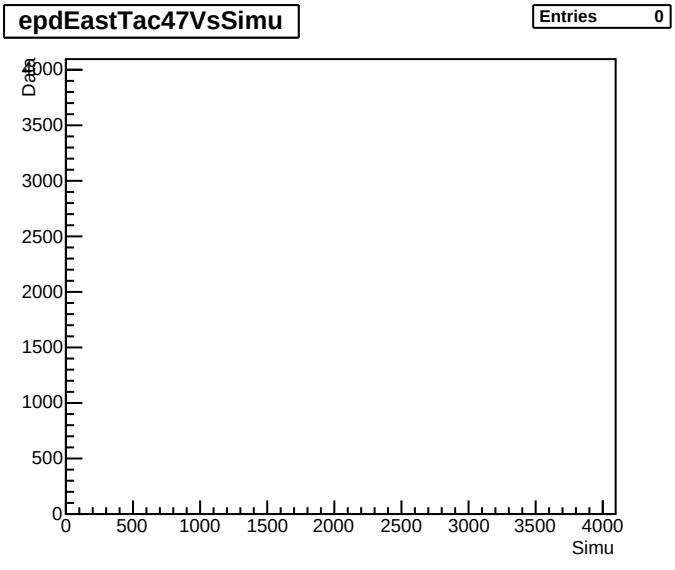

epdWestTHits
Entries 3843232
Truncated NHits
DSMInput Channel

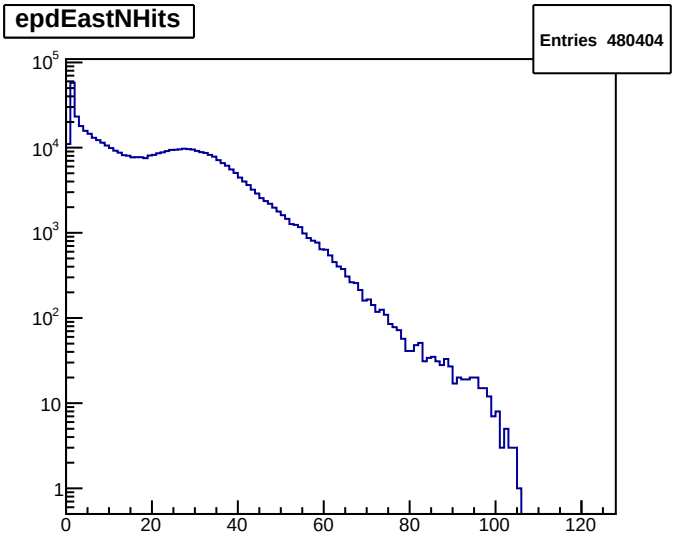

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

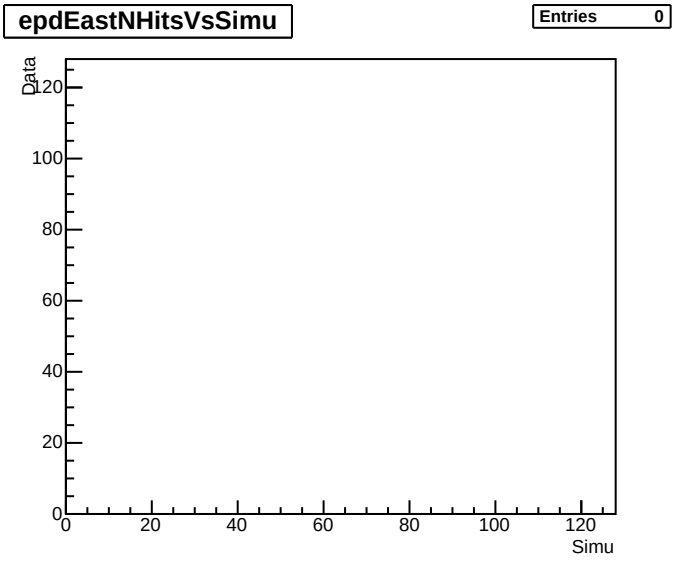

epdEastTac03
Entries 480404

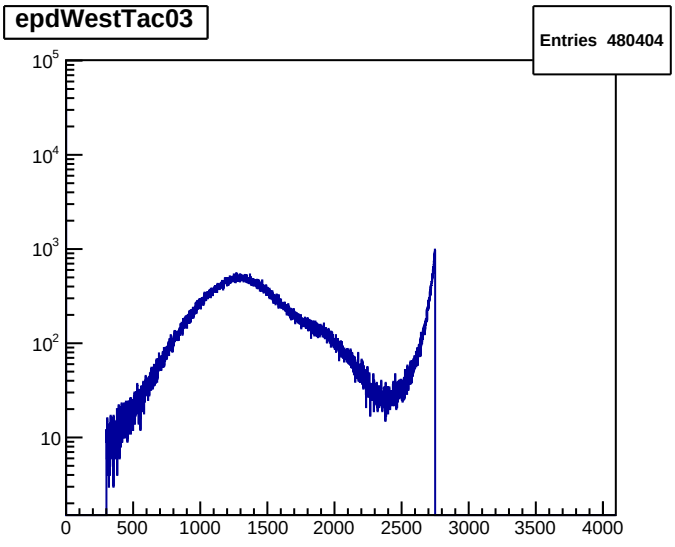

epdEastTac03VsSimu
Entries 0
Data
Simu

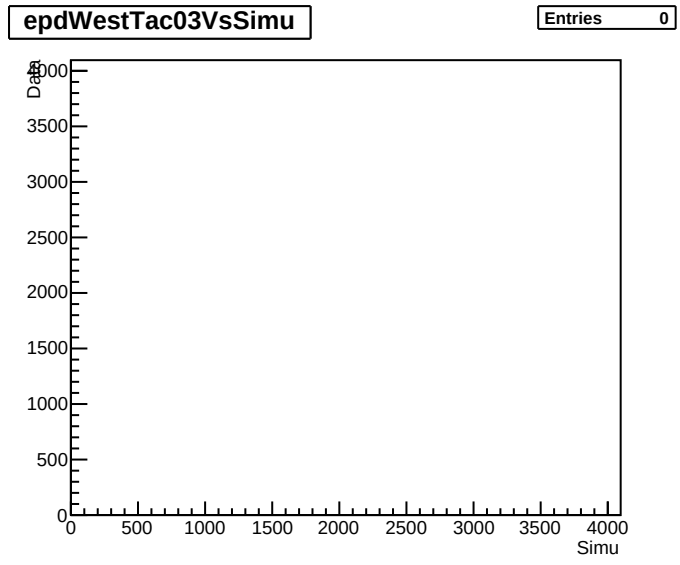

epdEastTac47
Entries 480404

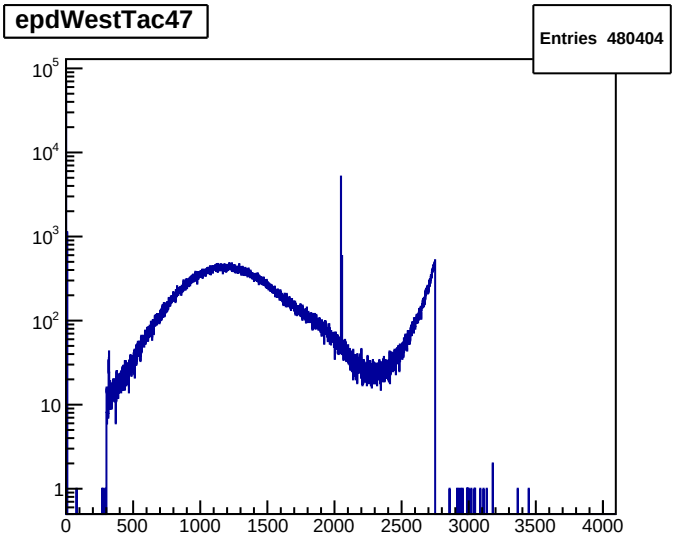

epdEastTac47VsSimu
Entries 0
Data
Simu

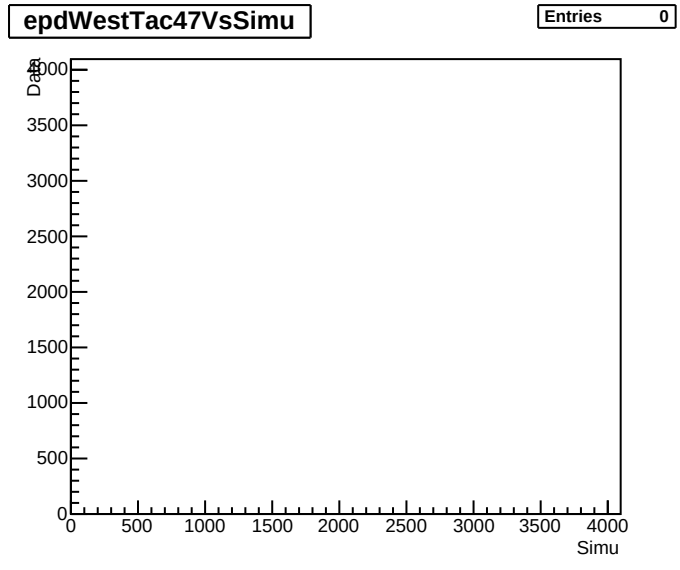

epdEastNHits
Entries 480404

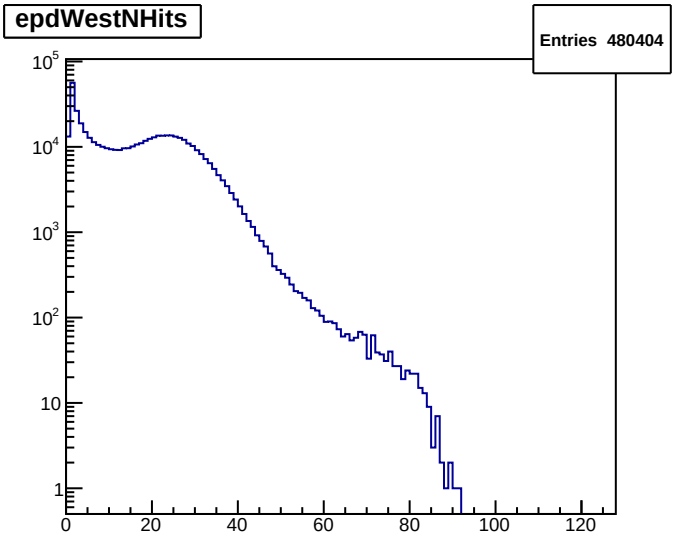

epdEastNHitsVsSimu
Entries 0
Data
Simu

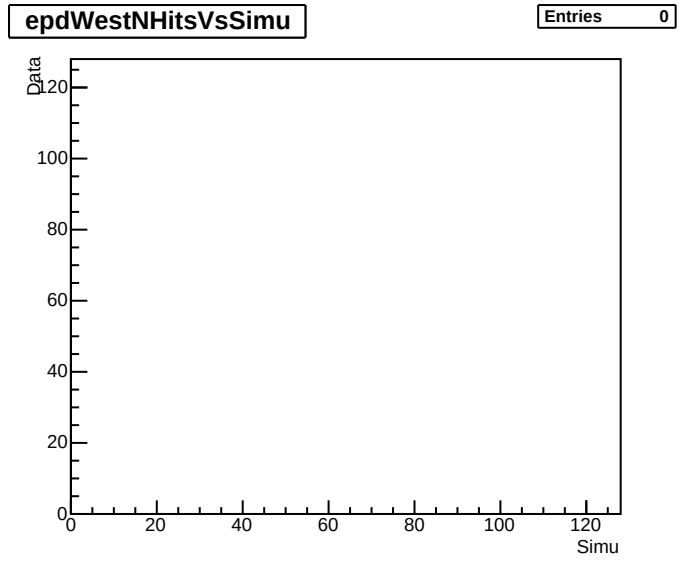

epdWestTac03
Entries 480404

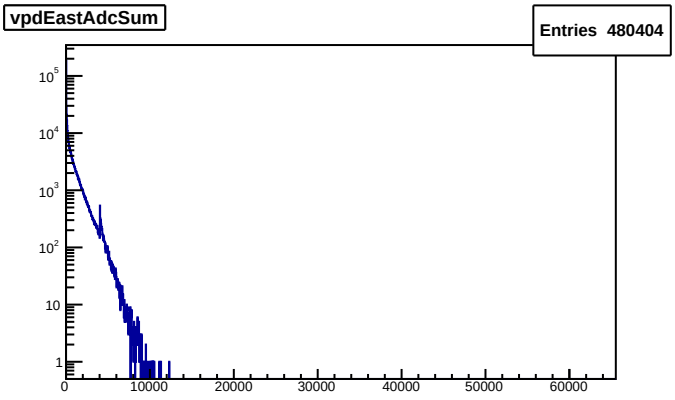

epdWestTac03VsSimu
Entries 0
Data
Simu

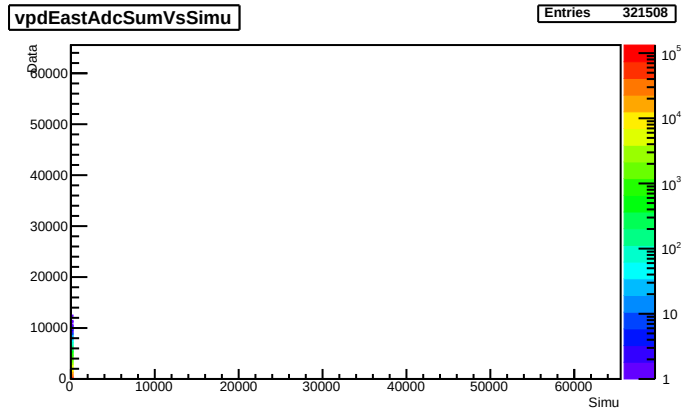

epdWestTac47
Entries 480404

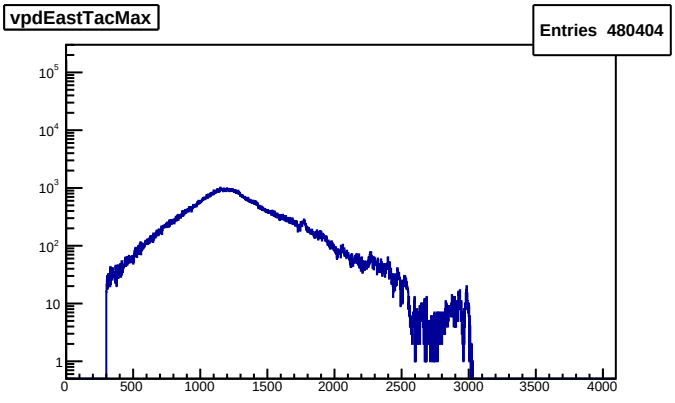

epdWestTac47VsSimu
Entries 0
Data
Simu

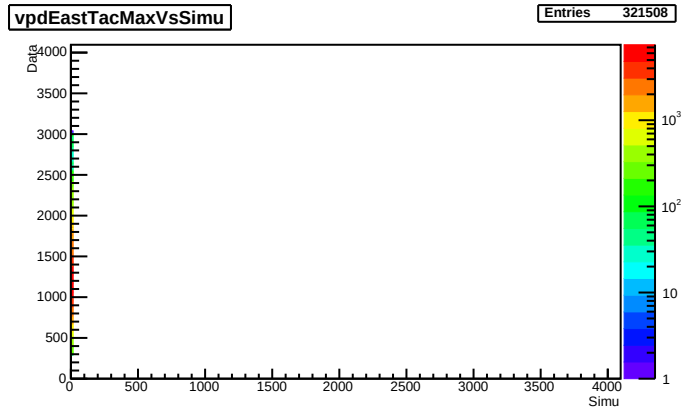

epdWestNHits
Entries 480404

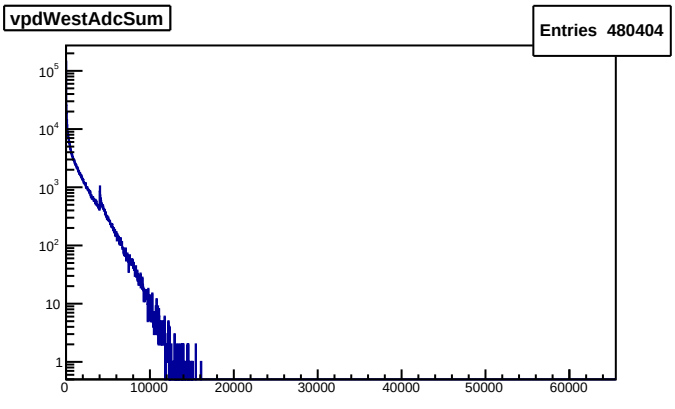

epdWestNHitsVsSimu
Entries 0
Data
Simu

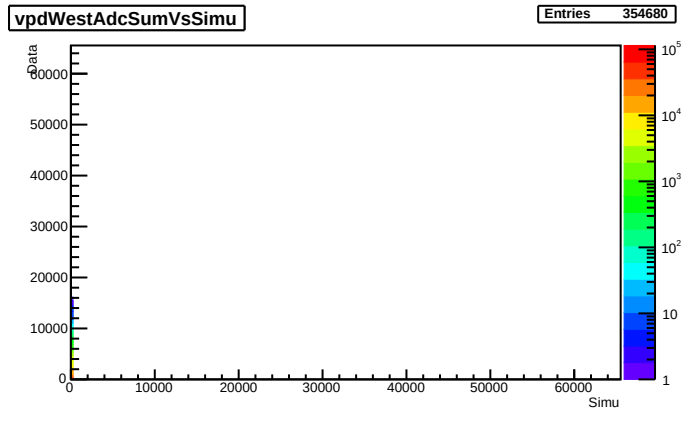

vpdEastAdcSum
Entries 480404

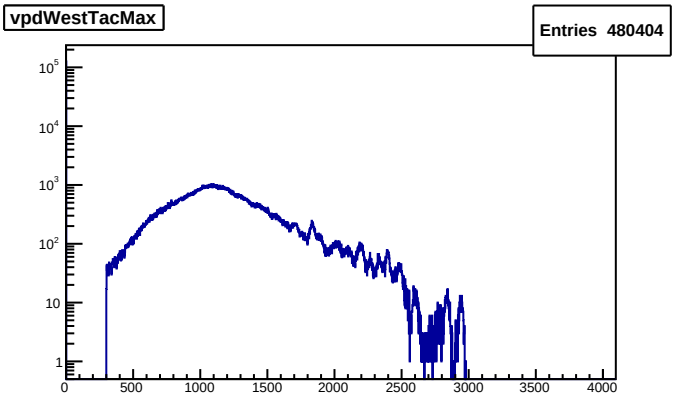

vpdEastAdcSumVsSimu
Entries 321508
Data
Simu

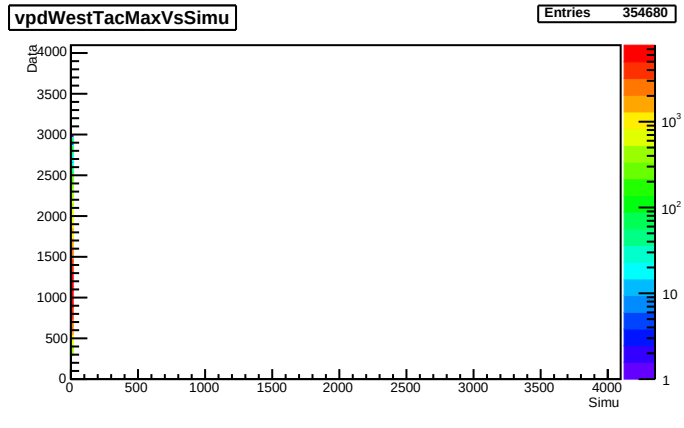

vpdEastTacMax
Entries 480404

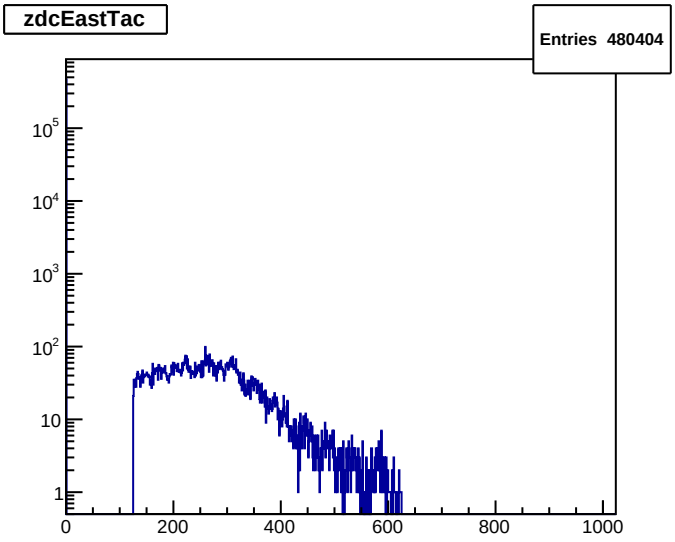

vpdEastTacMaxVsSimu
Entries 321508
Data
Simu

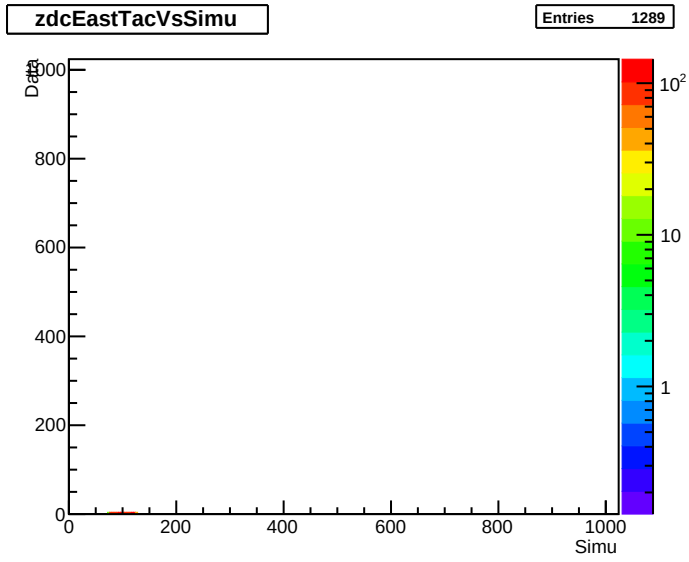

vpdWestAdcSum
Entries 480404

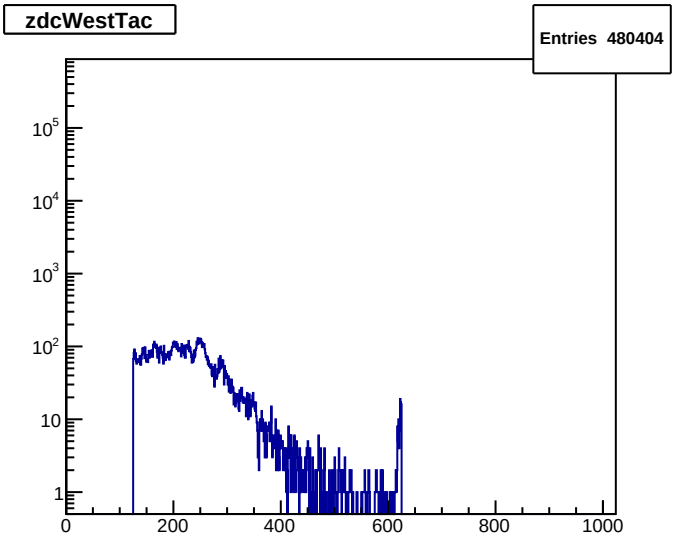

vpdWestAdcSumVsSimu
Entries 354680
Data
Simu

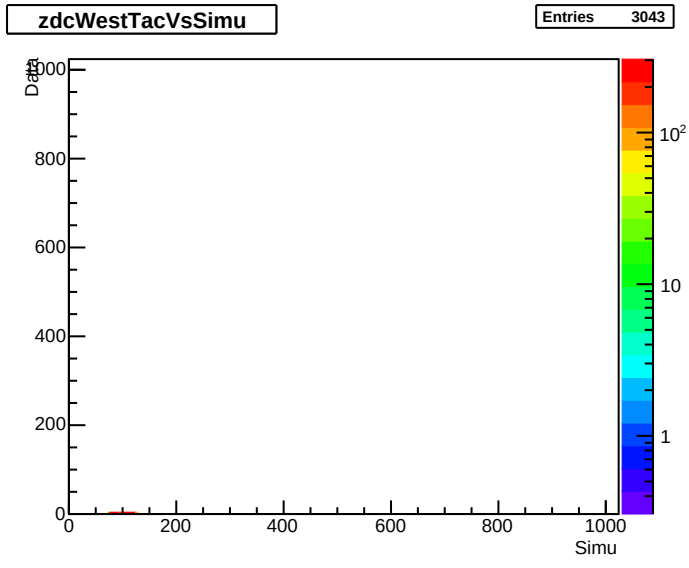

vpdWestTacMax
Entries 480404

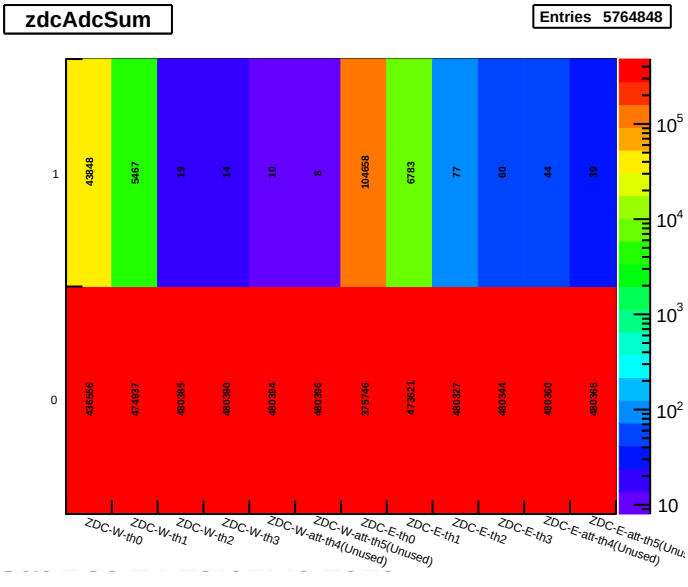

vpdWestTacMaxVsSimu
Entries 354680
Data
Simu

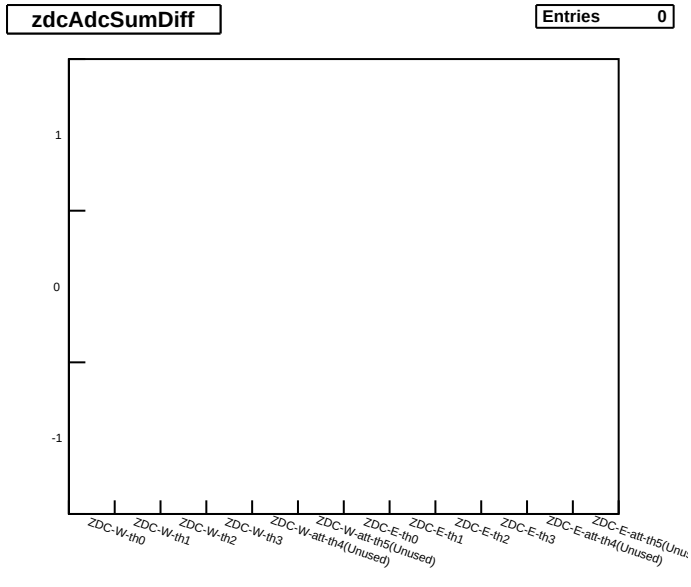

zdcEastTac
Entries 480404

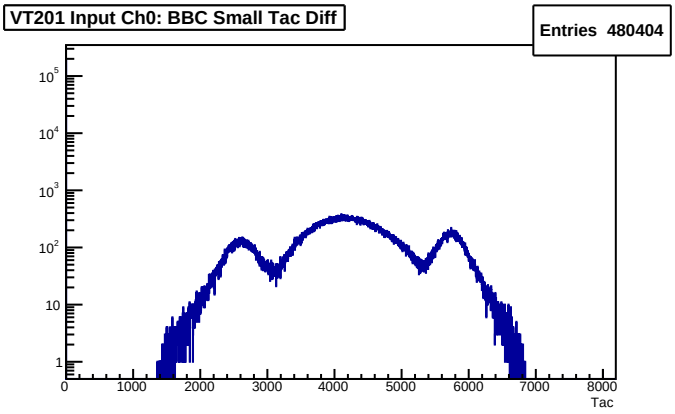

zdcEastTacVsSimu
Entries 1289
Data
Simu

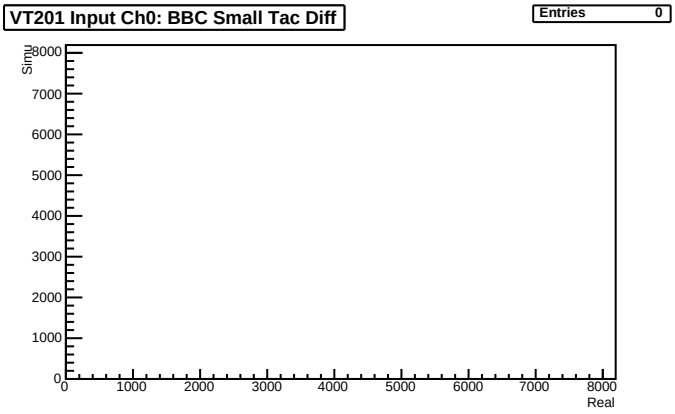

zdcWestTac
Entries 480404

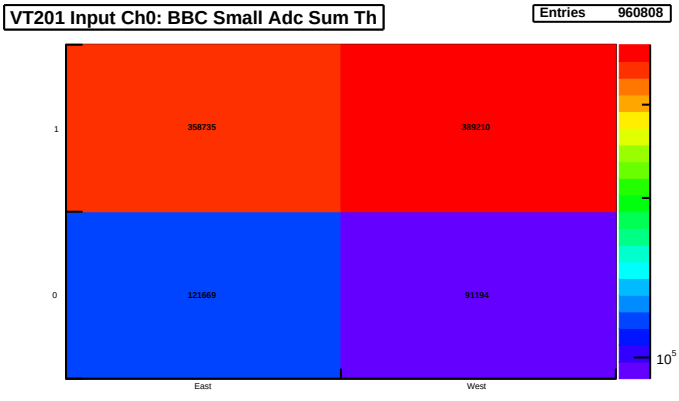

zdcWestTacVsSimu
Entries 3043
Data
Simu

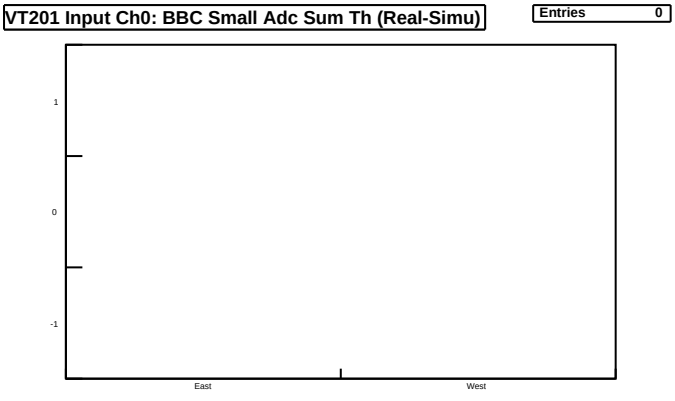

zdcAdcSum
Entries 5764848
43848
5467
19
14
10
8
104658
6783
77
60
44
39
436556
474937
480385
480390
480394
480396
375746
473621
480327
480344
480360
480385
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

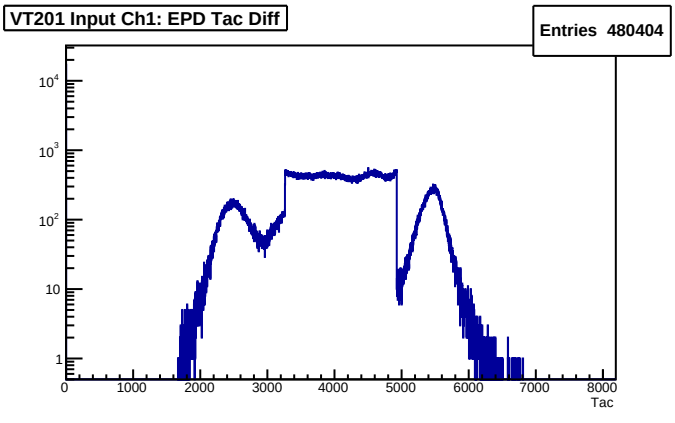

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

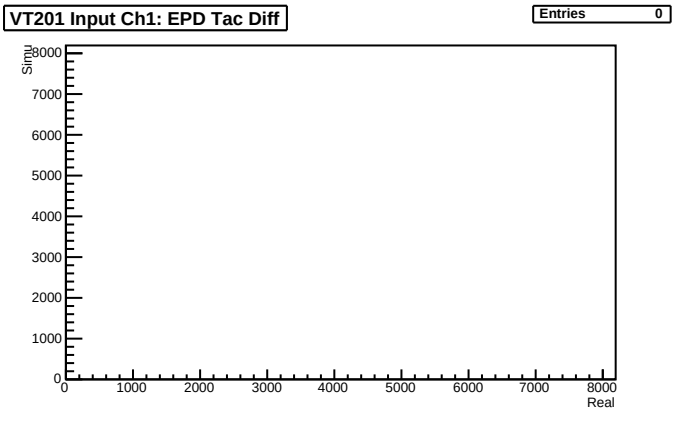

VT201 Input Ch0: BBC Small Tac Diff
Entries 480404
Tac

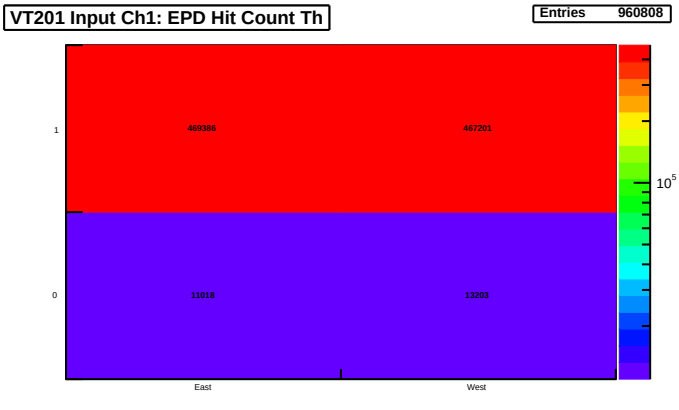

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

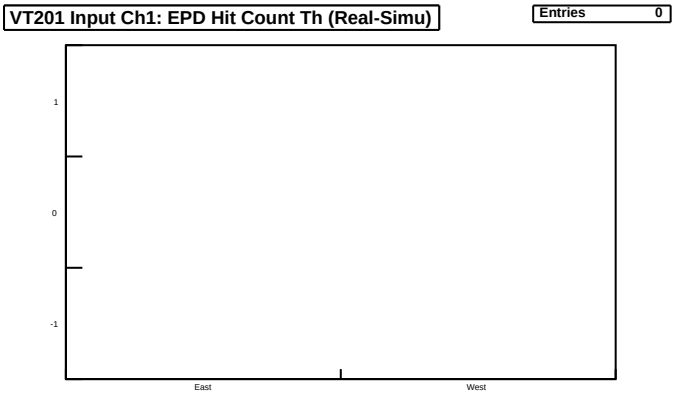

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 960808
358735
389210
121669
91194
East
West

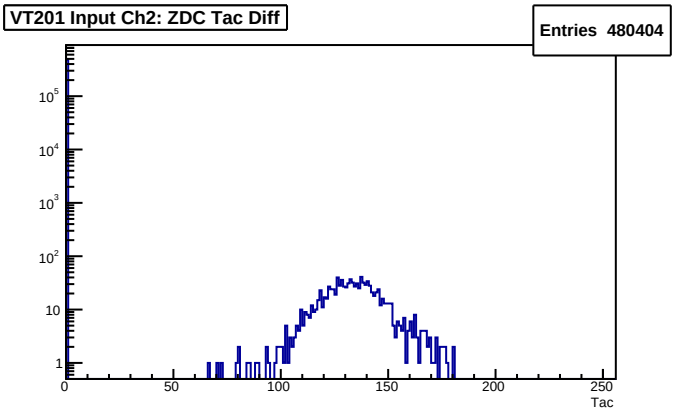

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

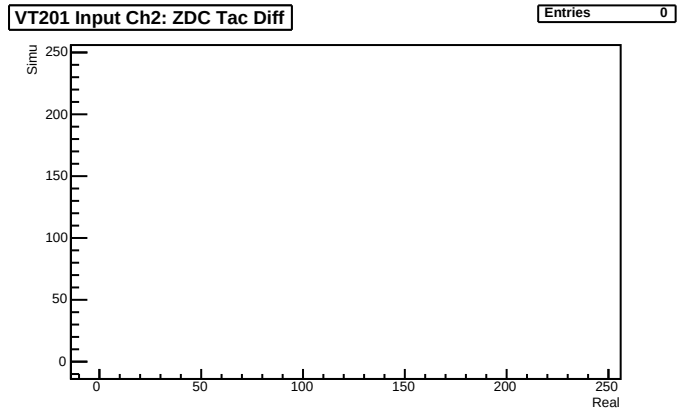

VT201 Input Ch1: EPD Tac Diff
Entries 480404
Tac

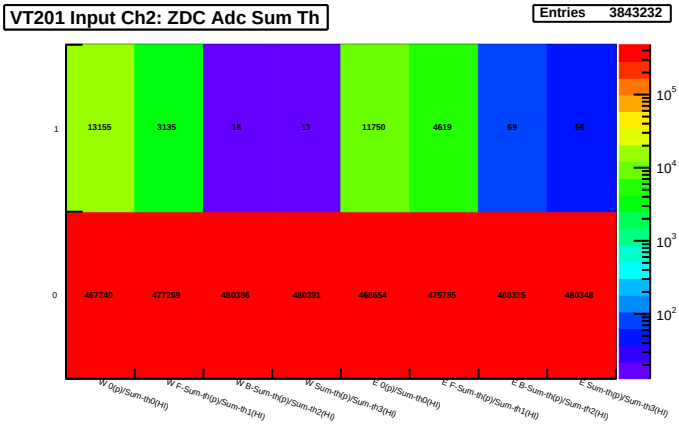

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

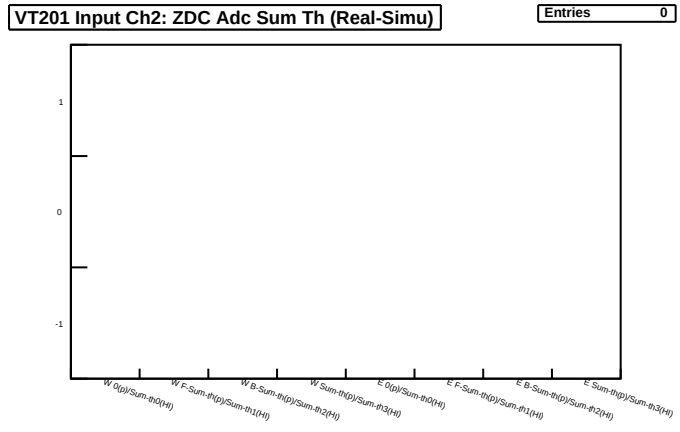

VT201 Input Ch1: EPD Hit Count Th
Entries 960808
469386
467201
11018
13203
East
West

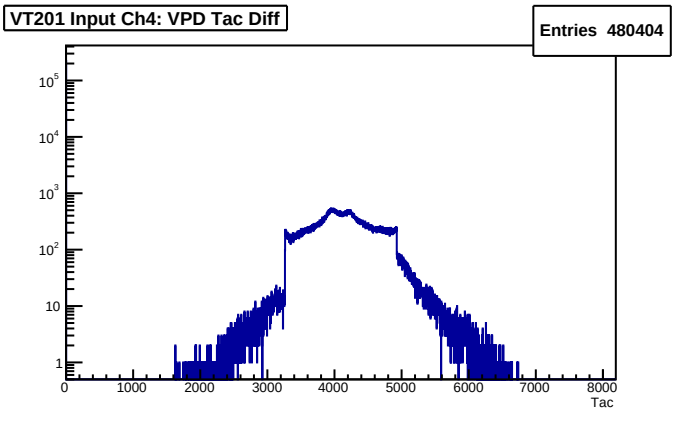

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

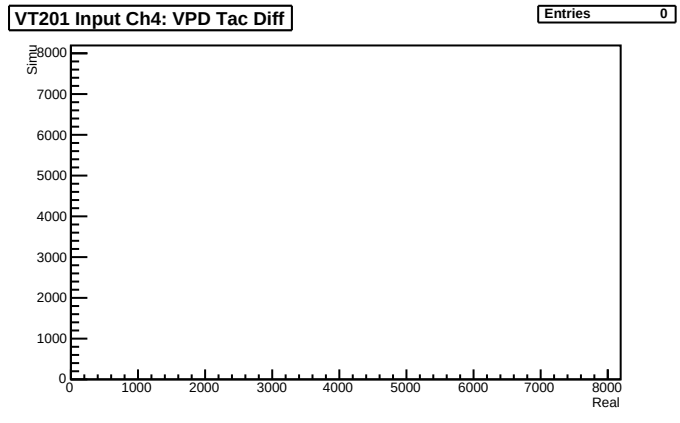

VT201 Input Ch2: ZDC Tac Diff
Entries 480404
Tac

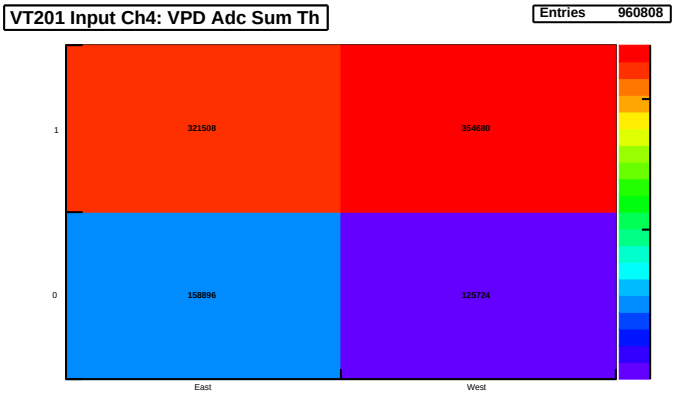

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

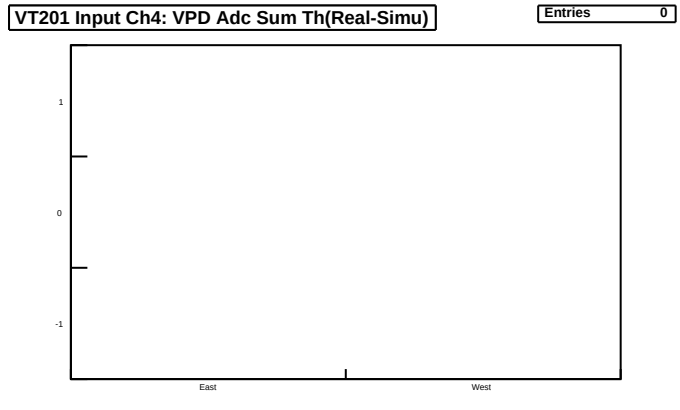

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3843232
13155
3135
18
13
11750
4619
69
56
467249
477269
480386
480391
468654
475785
480335
480348
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

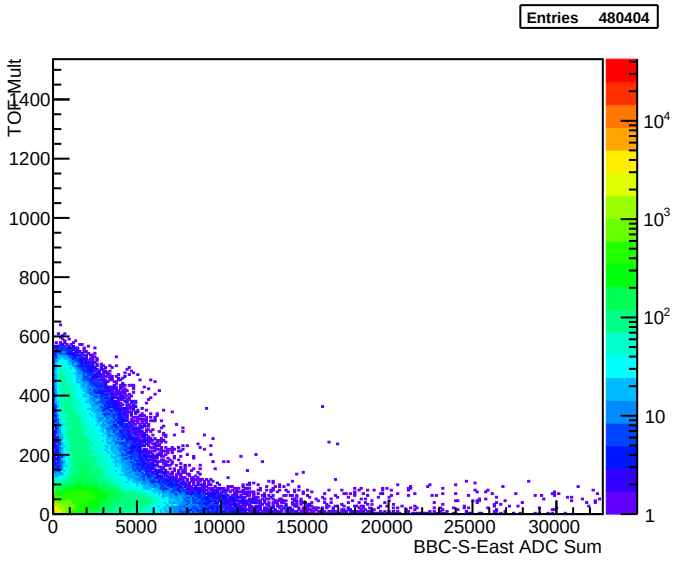

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

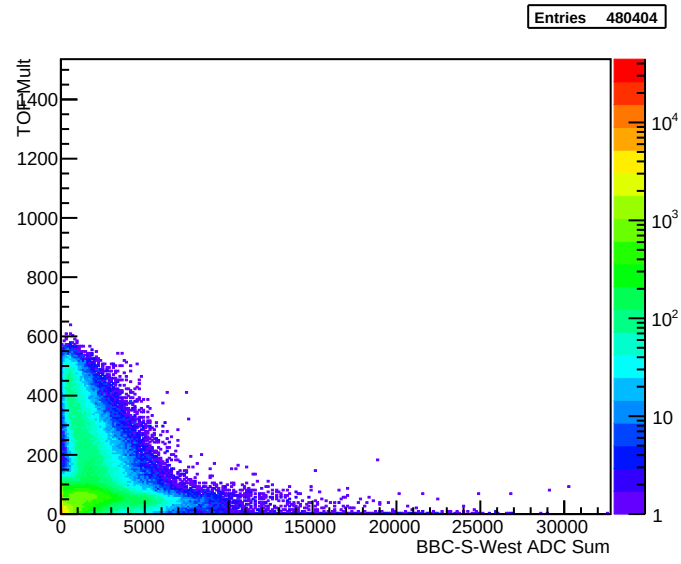

VT201 Input Ch4: VPD Tac Diff
Entries 480404
Tac

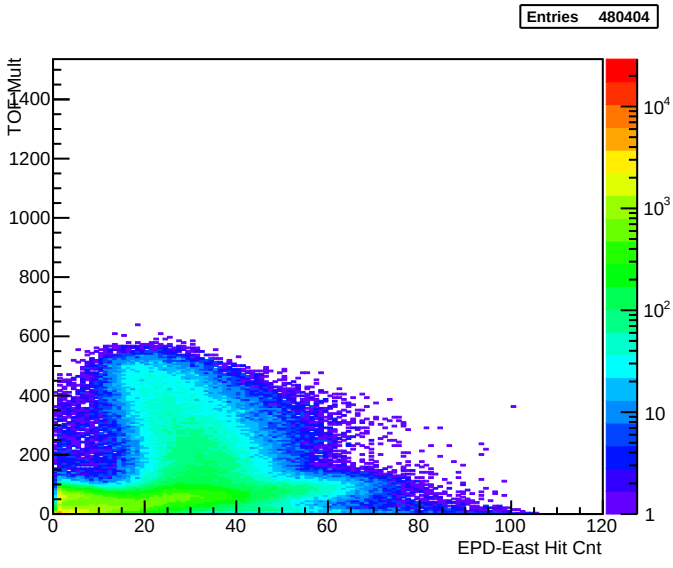

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

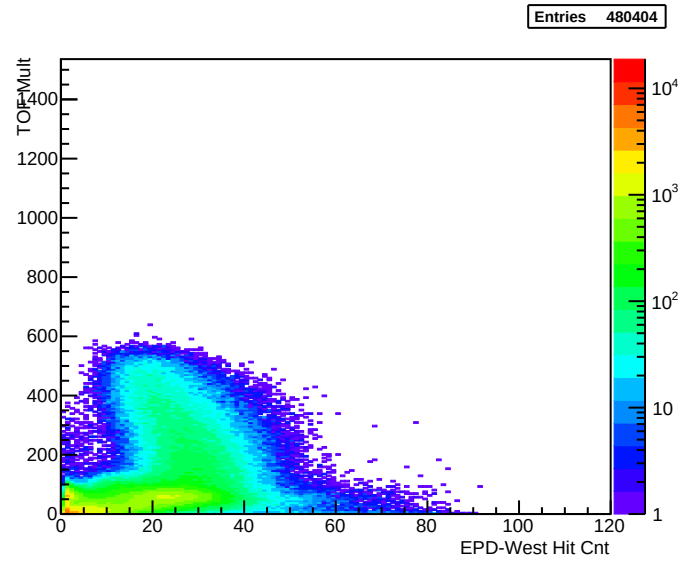

VT201 Input Ch4: VPD Adc Sum Th
Entries 960808
321508
354680
158896
125724
East
West

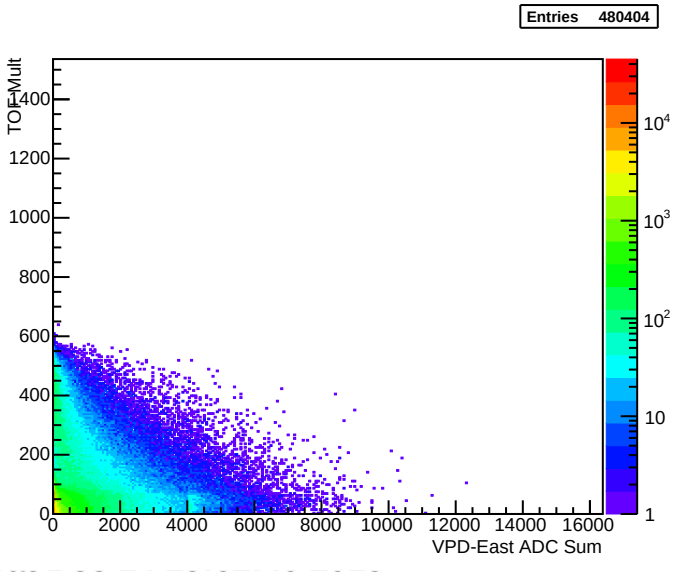

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

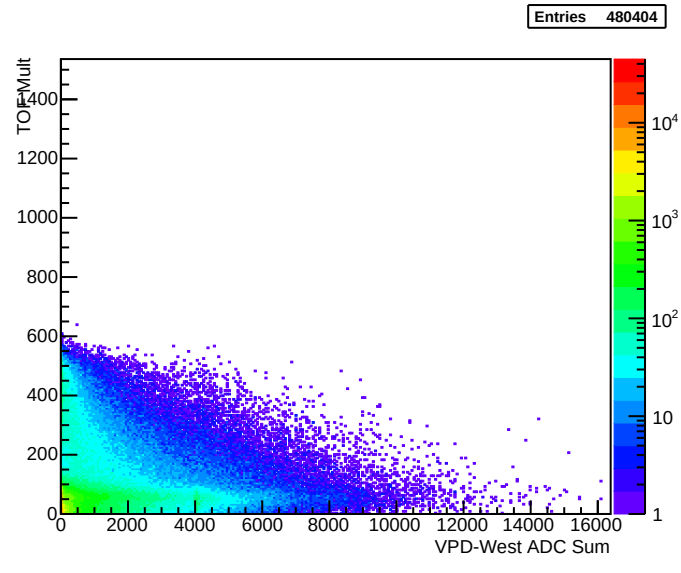

Entries 480404
TOF-Mult
BBC-S-East ADC Sum

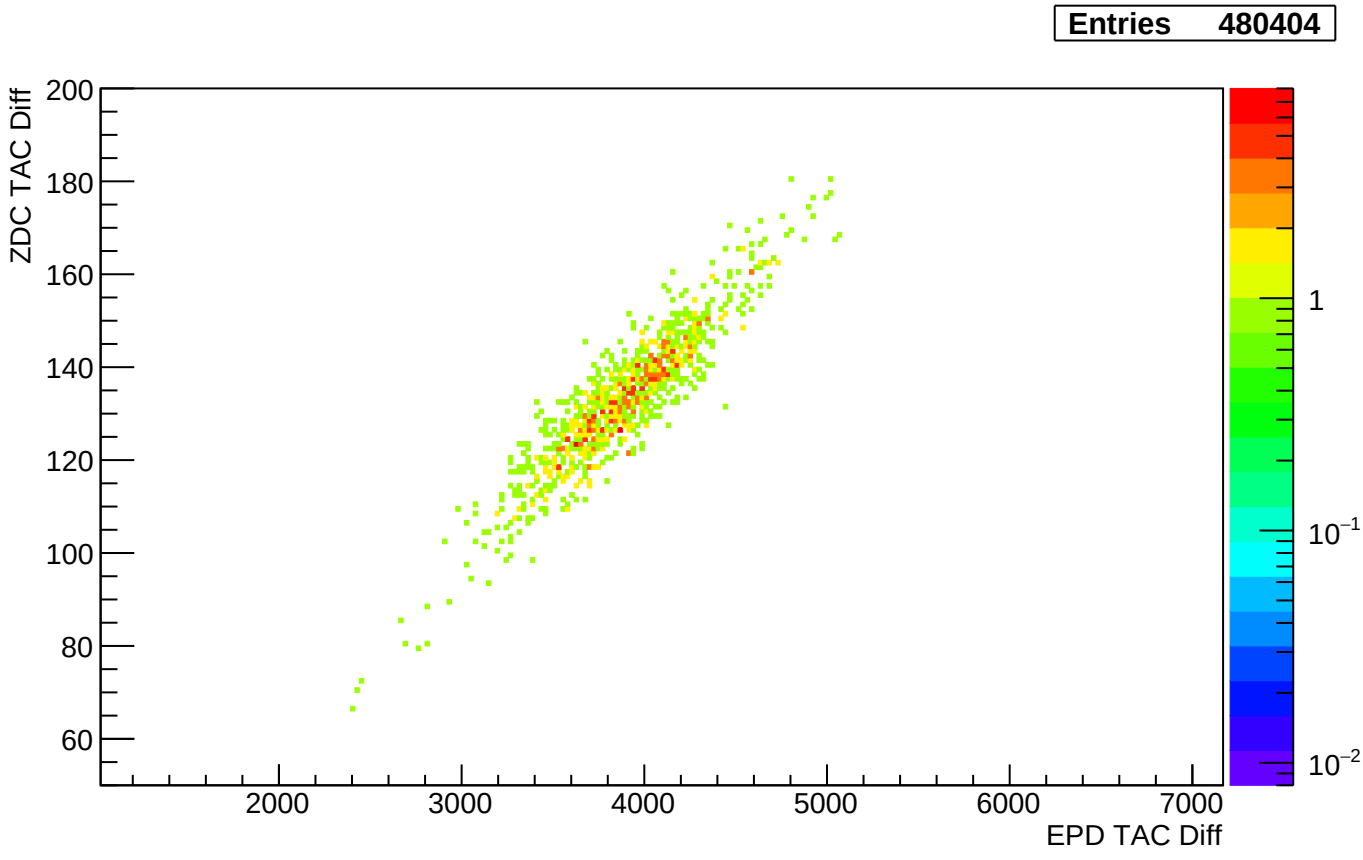

Entries 480404
TOF-Mult
BBC-S-West ADC Sum

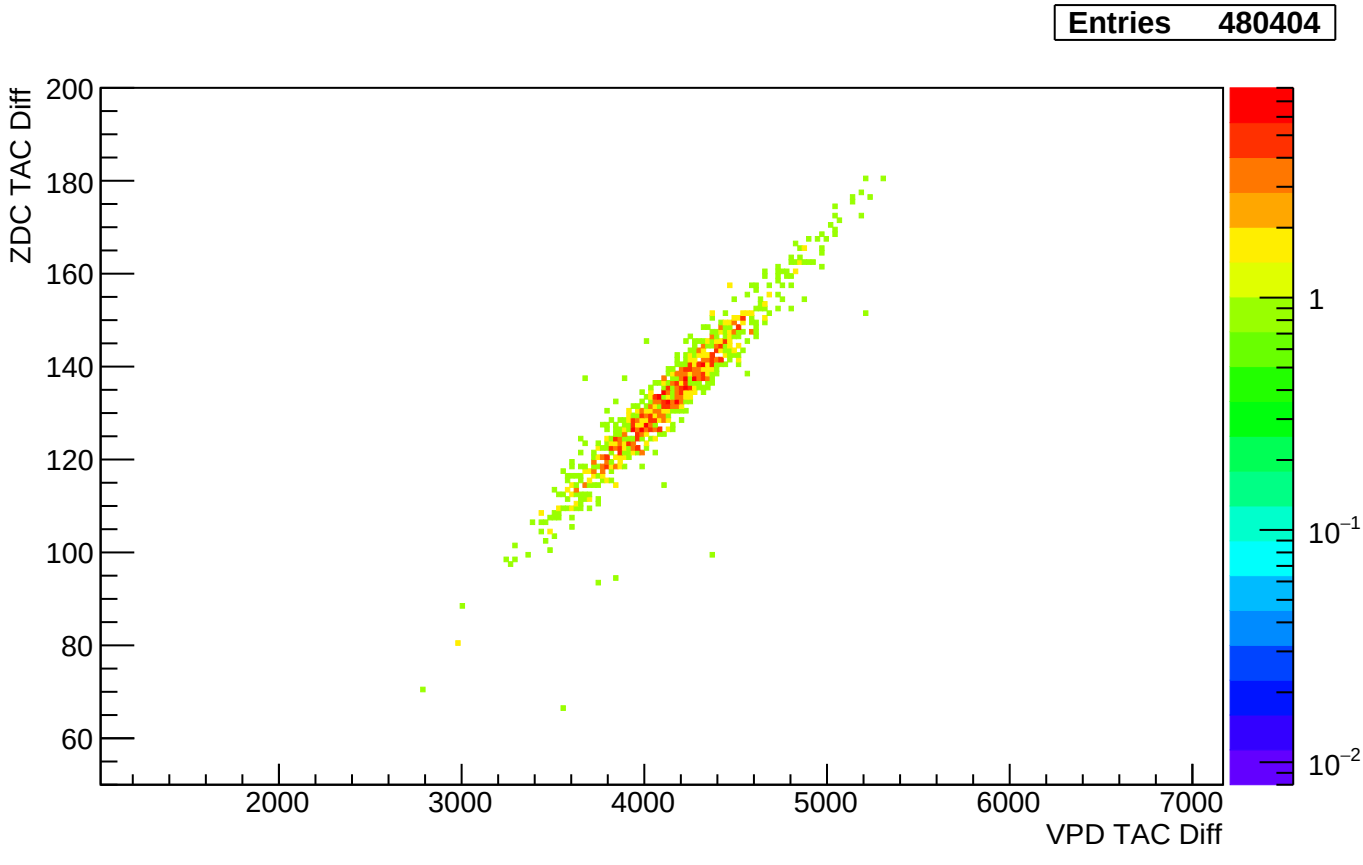

Entries 480404
TOF-Mult
EPD-East Hit Cnt

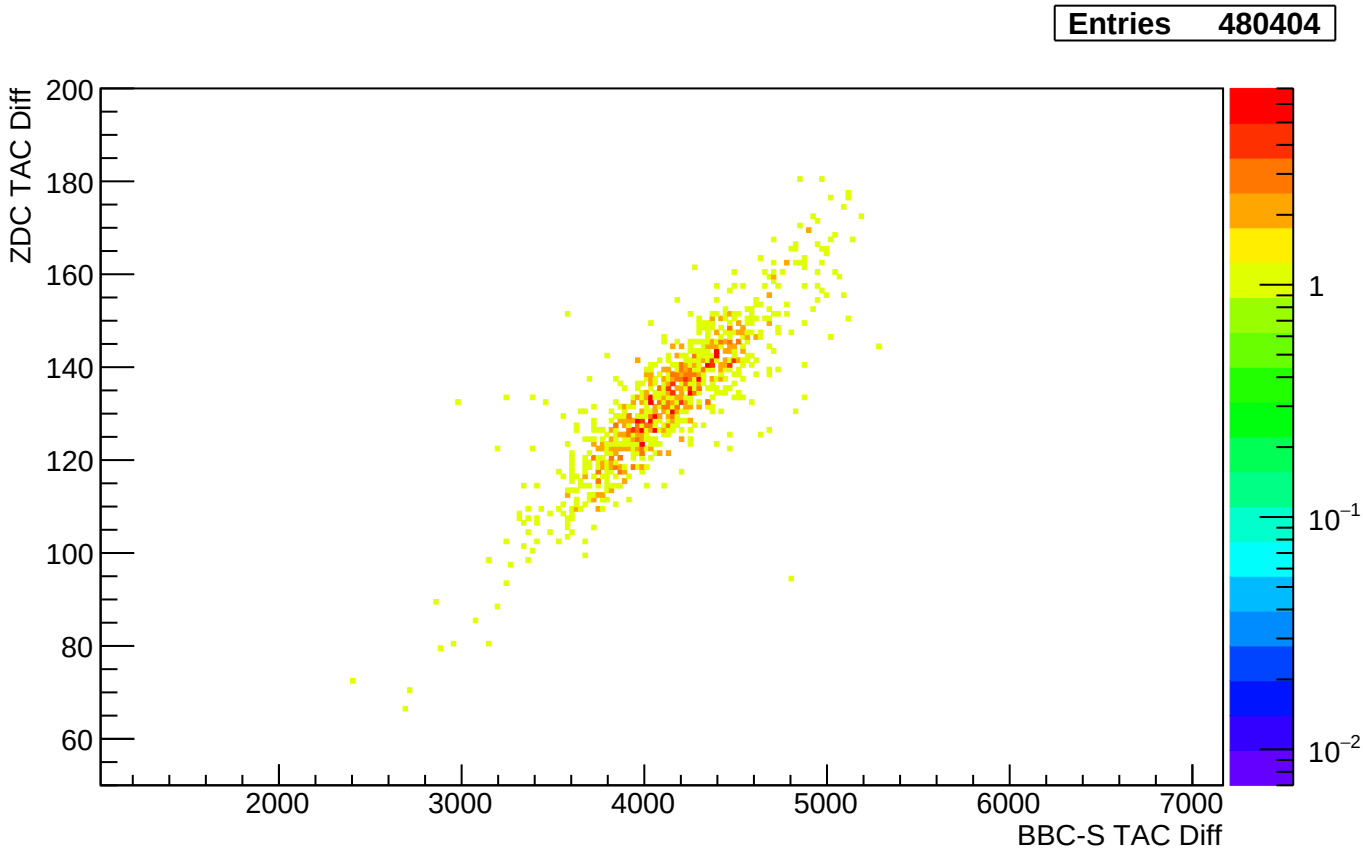

Entries 480404
TOF-Mult
EPD-West Hit Cnt

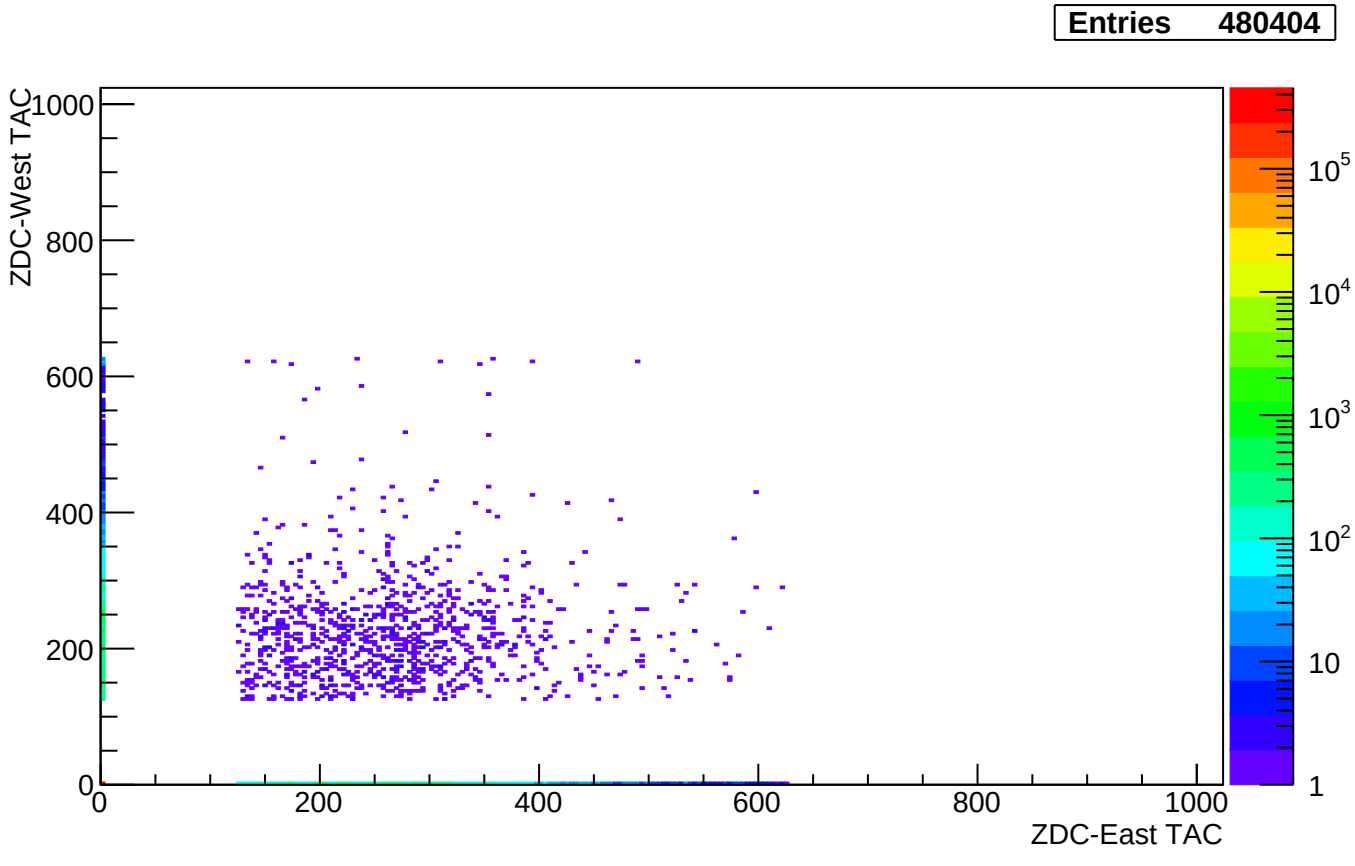

Entries 480404
TOF-Mult
VPD-East ADC Sum

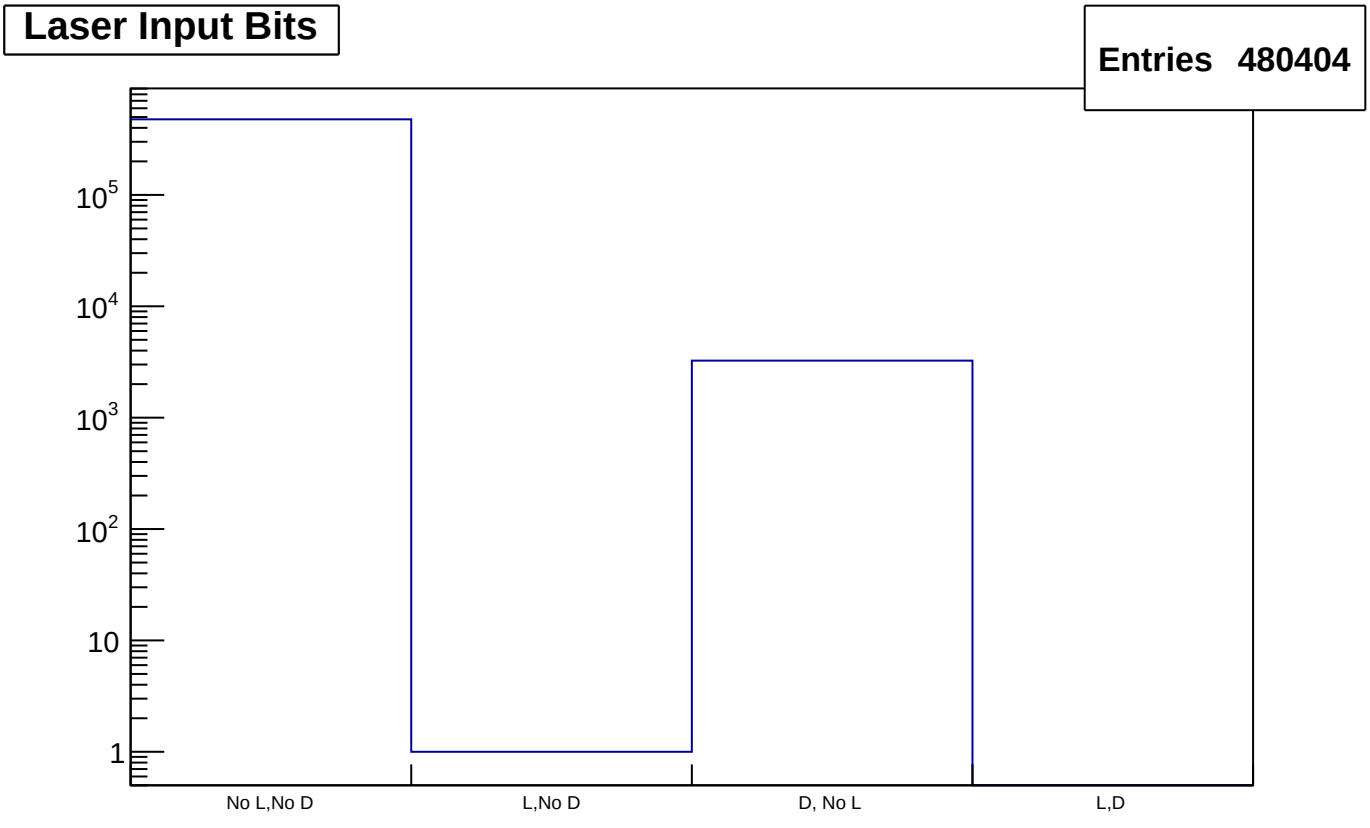

Entries 480404
TOF-Mult
VPD-West ADC Sum

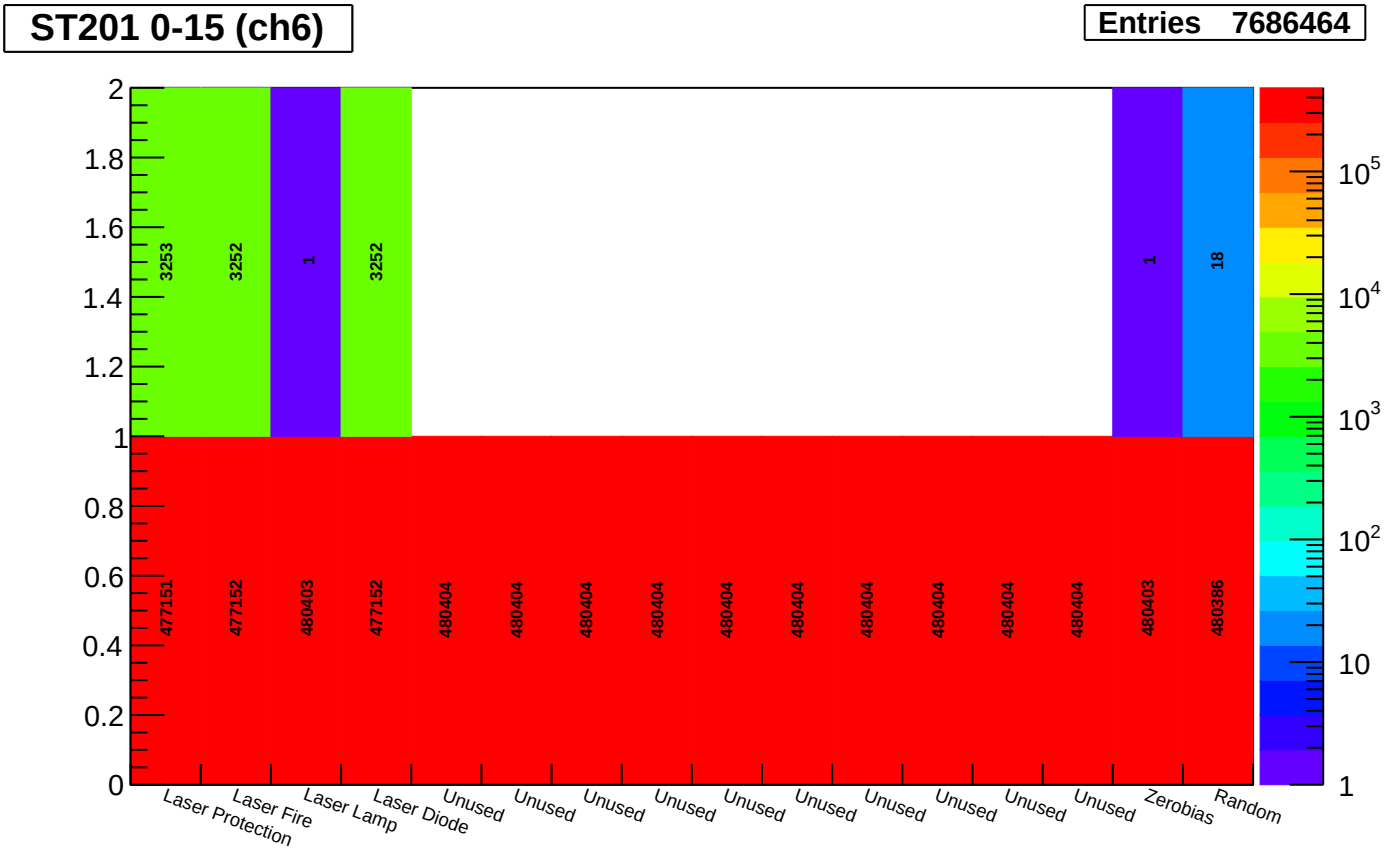

Entries 480404
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

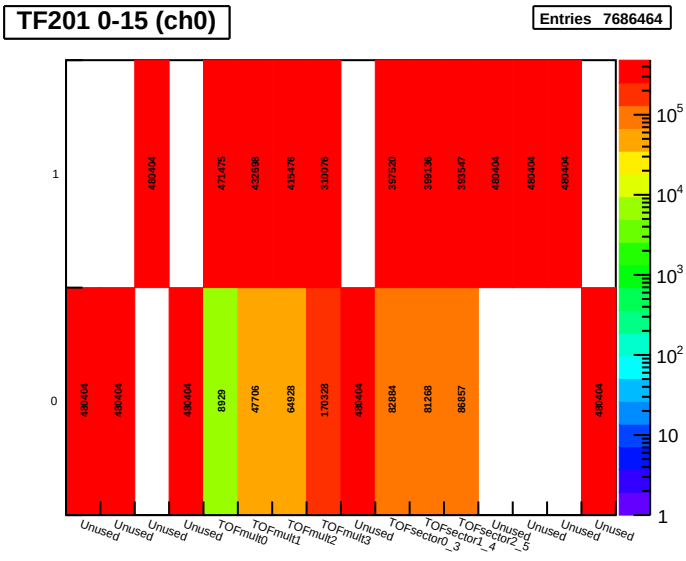

Entries 480404
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

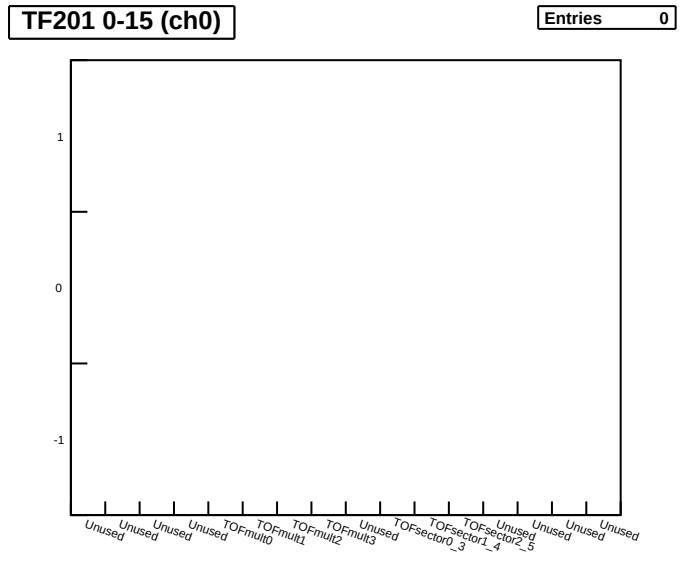

Entries 480404
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

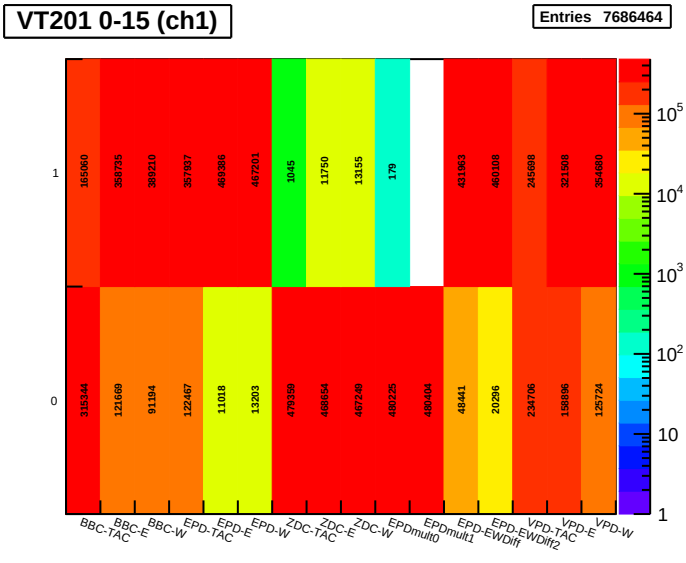

Entries 480404
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

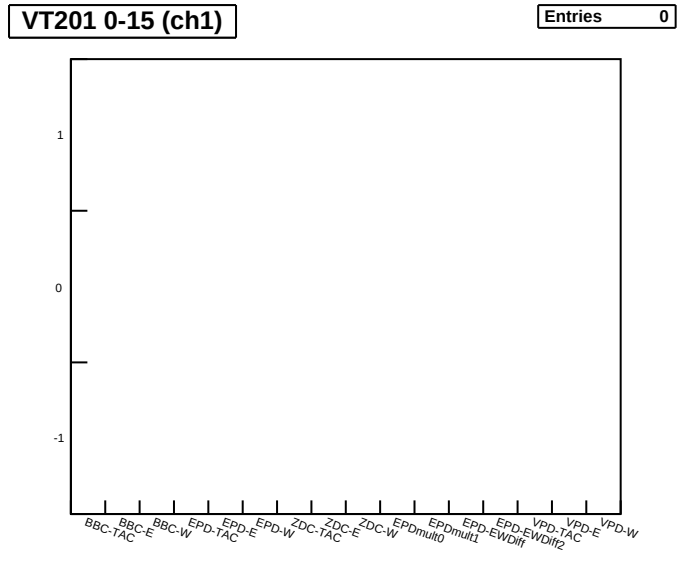

Laser Input Bits
Entries 480404
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

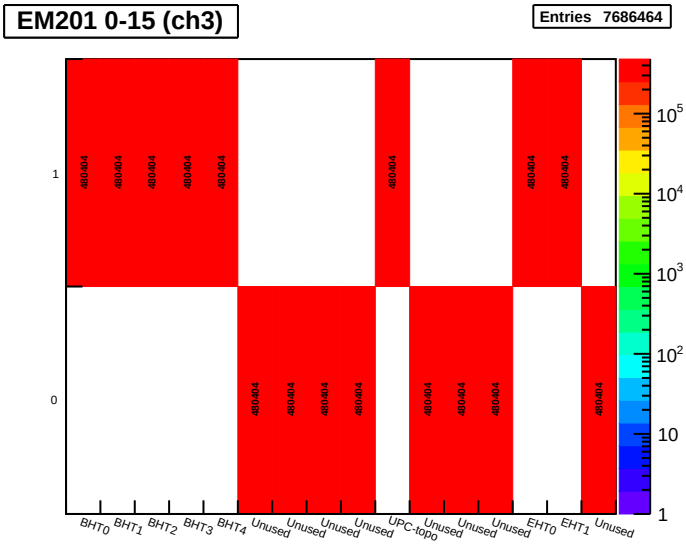

ST201 0-15 (ch6)
Entries 7686464
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3253
3252
1
3252
1
18
477151
477152
480403
477152
480404
480404
480404
480404
480404
480404
480404
480404
480404
480404
480403
480386
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

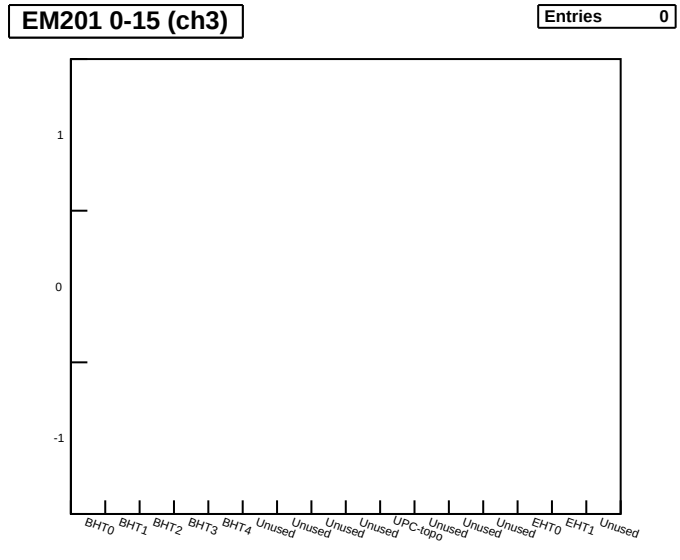

TF201 0-15 (ch0)
Entries 7686464
1
0
480404
471475
432698
415476
310076
397520
399136
393547
480404
480404
480404
480404
480404
480404
8929
47706
64928
170328
480404
82884
81268
86857
480404
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
10^5
10^4
10^3
10^2
10
1


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


VT201 0-15 (ch1)
Entries 7686464
1
0
165060
358735
369210
357937
469386
467201
1045
11750
13155
179
431963
460108
245698
321508
354680
315344
121669
91194
122467
11018
13203
479359
468654
467249
480225
480404
48441
20296
234706
158896
125724
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 7686464
1
0
480404
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1
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
UPC-topo
EHT0
EHT1