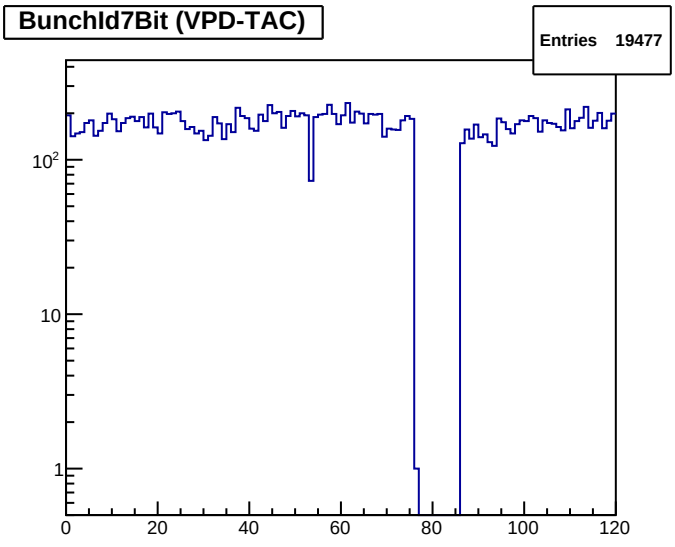
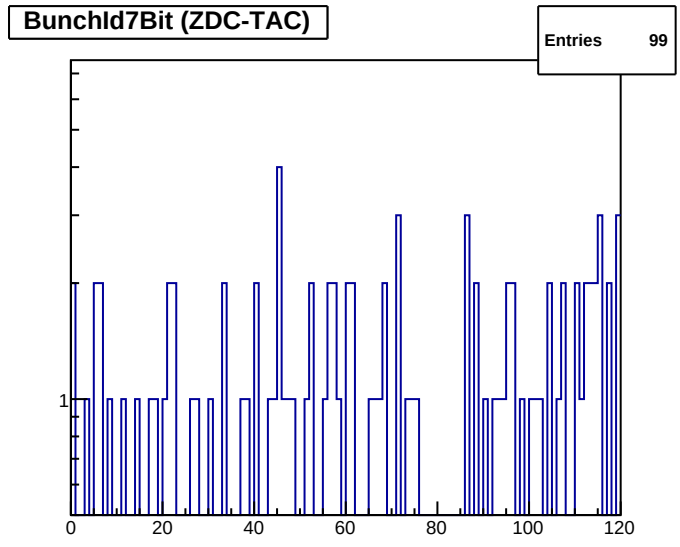
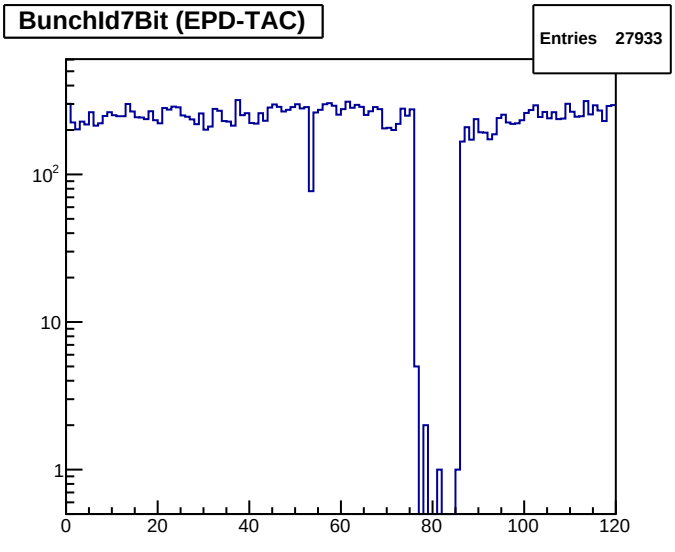
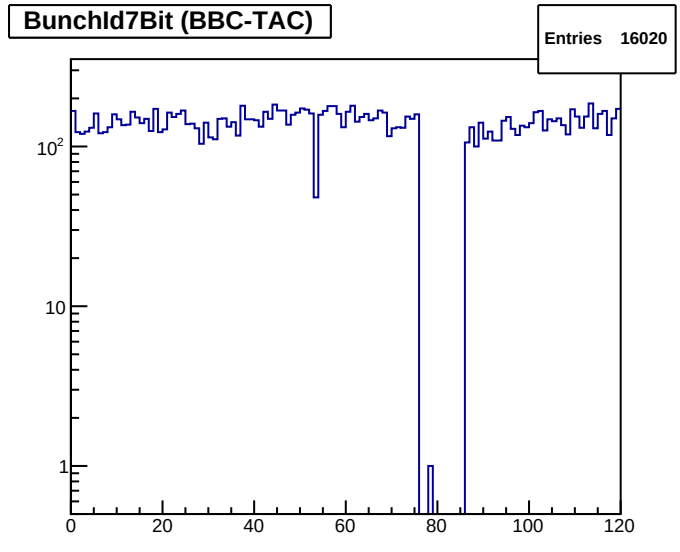
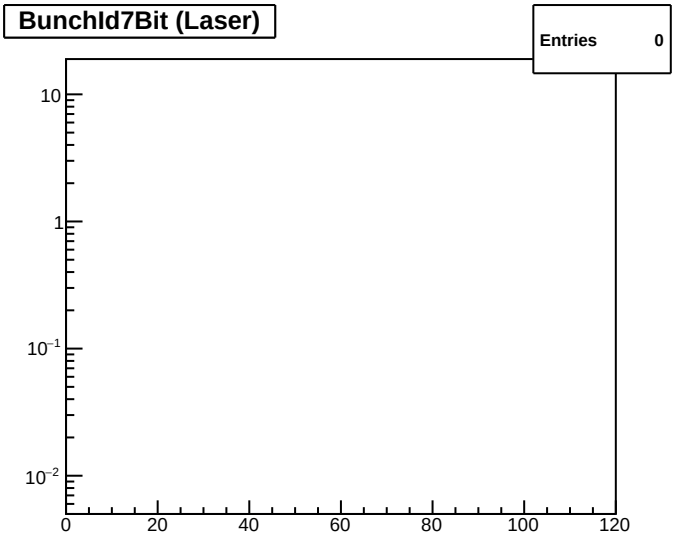
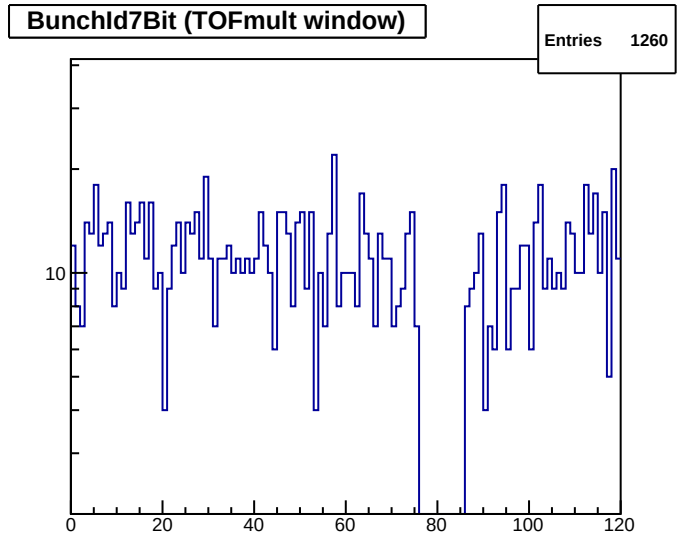

BunchId7Bit (VPD-TAC)
Entries 19477
10^2
10
1
0
20
40
60
80
100
120

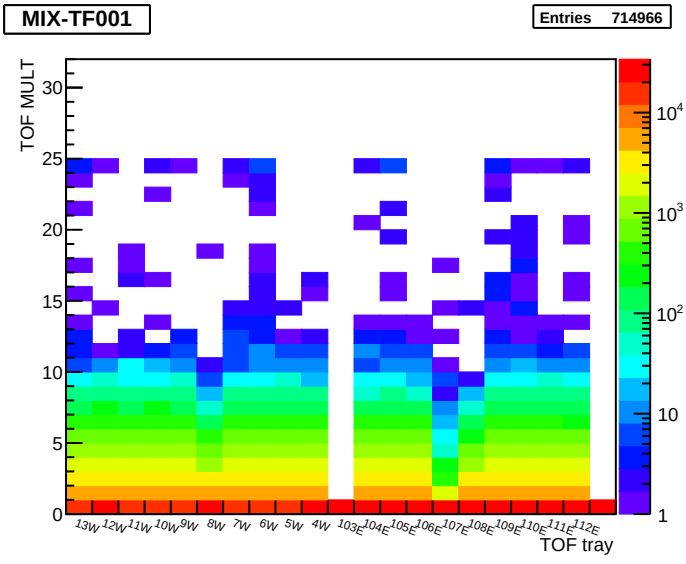

BunchId7Bit (ZDC-TAC)
Entries 99
1
0
20
40
60
80
100
120

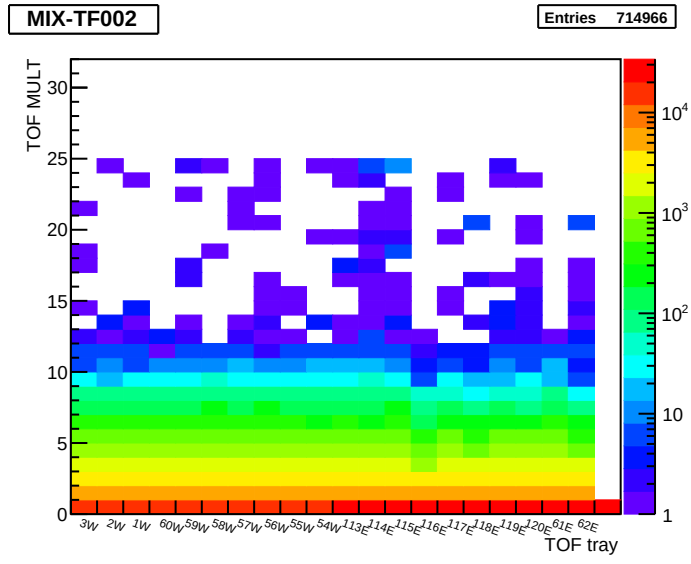

BunchId7Bit (EPD-TAC)
Entries 27933
10^2
10
1
0
20
40
60
80
100
120

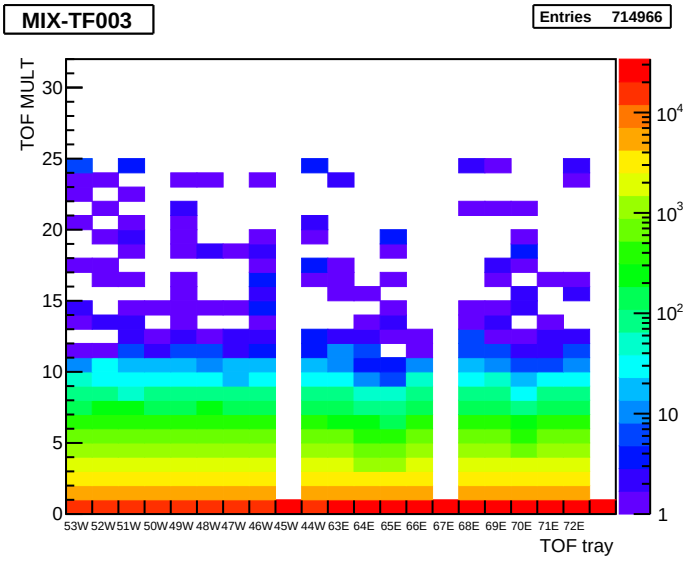

BunchId7Bit (BBC-TAC)
Entries 16020
10^2
10
1
0
20
40
60
80
100
120

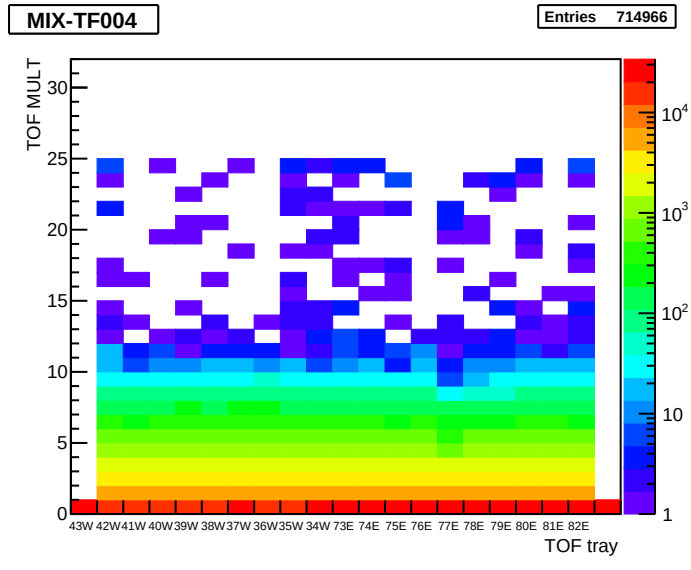

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

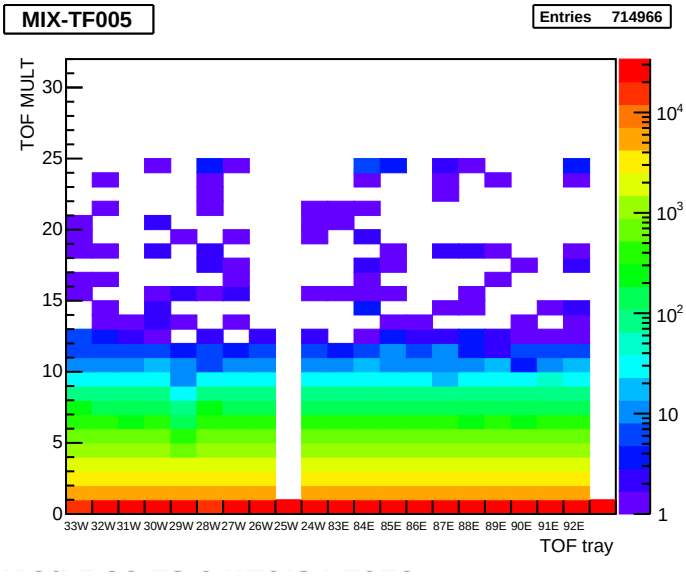

BunchId7Bit (TOFmult window)
Entries 1260
10
0
20
40
60
80
100
120

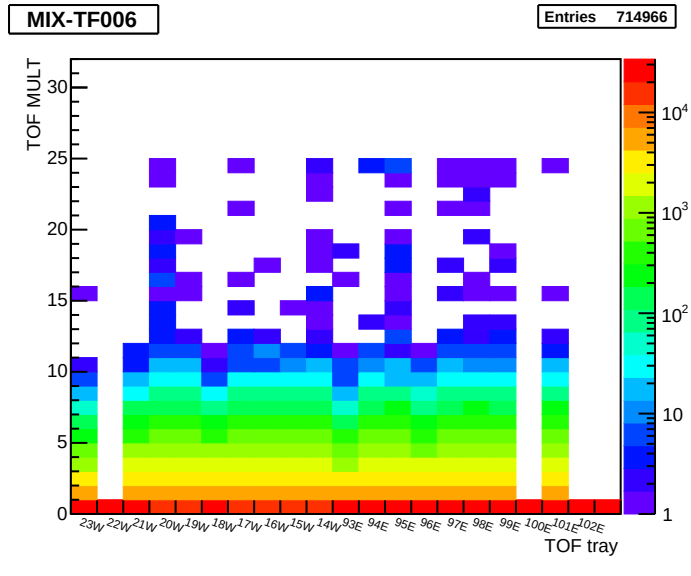

MIX-TF001
Entries 714966
TOF MULT
TOF tray

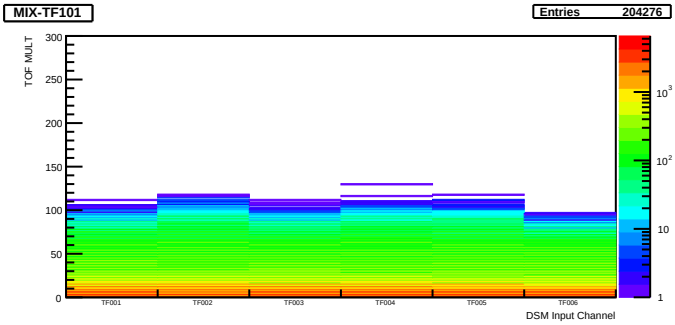

MIX-TF002
Entries 714966
TOF MULT
TOF tray

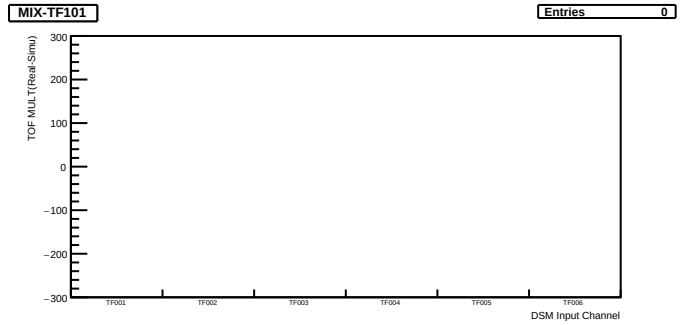

MIX-TF003
Entries 714966
TOF MULT
TOF tray

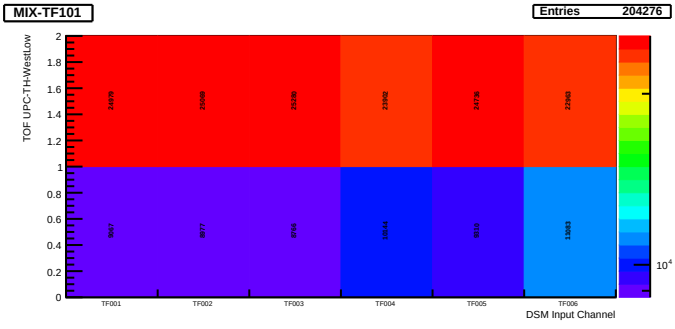

MIX-TF004
Entries 714966
TOF MULT
TOF tray

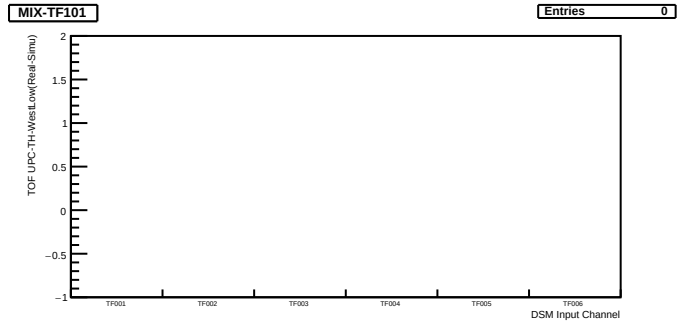

MIX-TF005
Entries 714966
TOF MULT
TOF tray

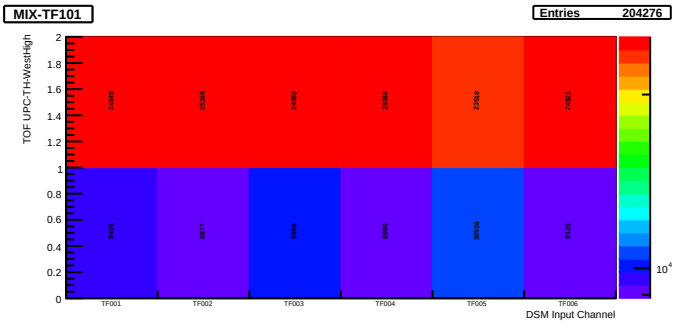

MIX-TF006
Entries 714966
TOF MULT
TOF tray

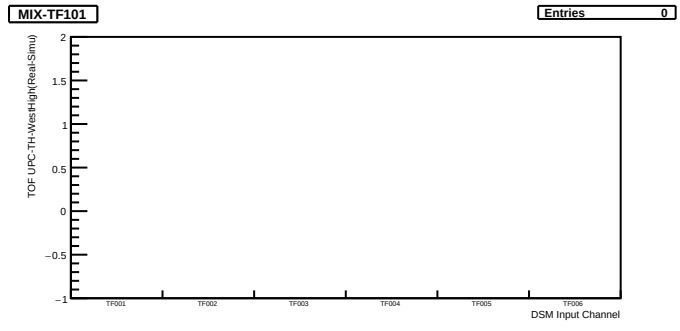

MIX-TF101
Entries 204276
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

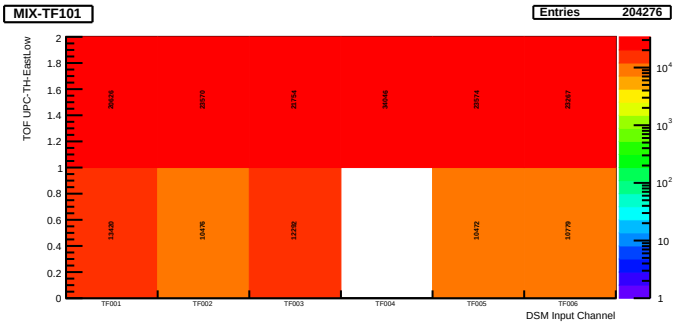

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

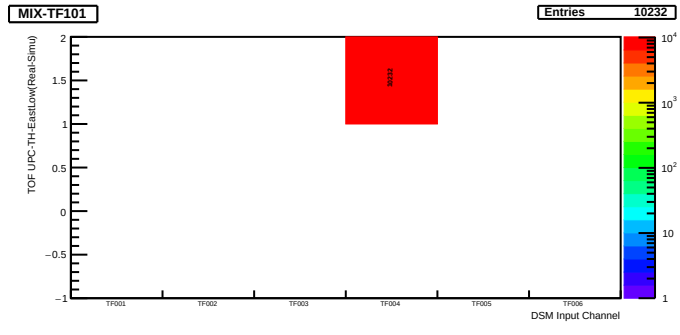

MIX-TF101
Entries 204276
TOF UPC-TH-WestLow
24879
25569
25230
23502
24736
22943
9017
8977
8745
10444
9310
11043
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

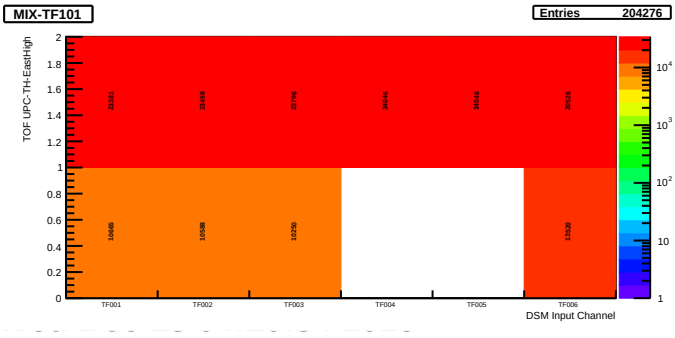

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

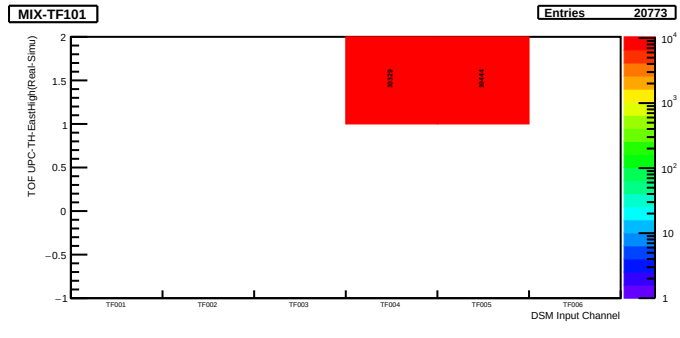

MIX-TF101
Entries 204276
TOF UPC-TH-WestHigh
24440
25389
24480
25984
23510
24821
9466
8877
8966
8980
10036
9125
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

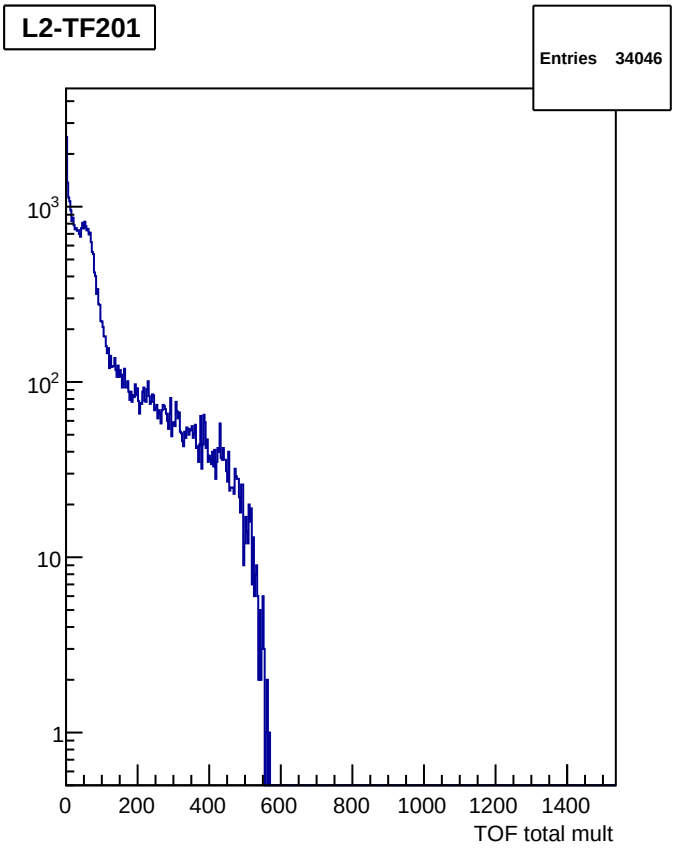

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

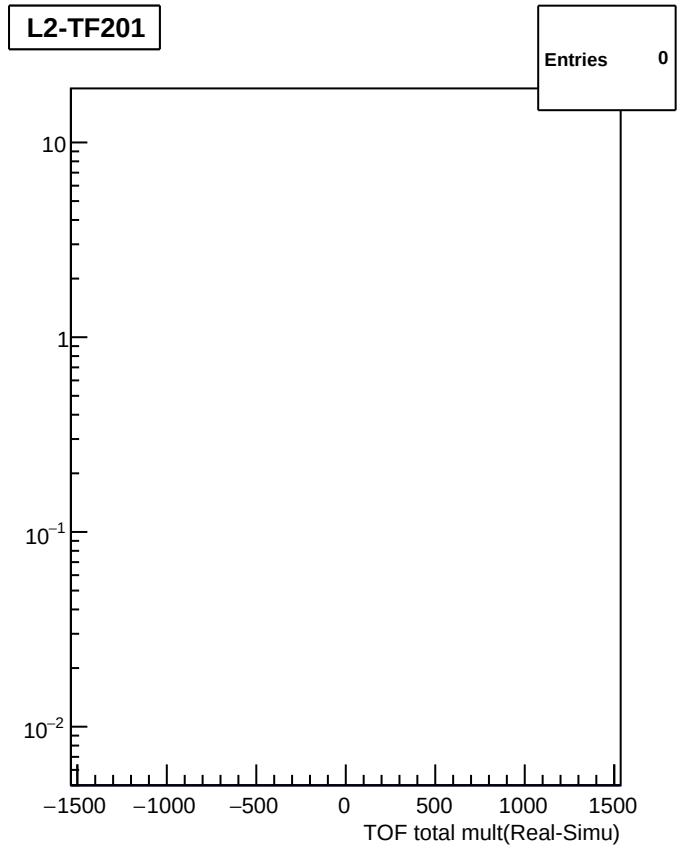

MIX-TF101
Entries 204276
TOF UPC-TH-EastLow
20426
23570
25754
36646
25574
23267
13420
10476
12282
10472
10779
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

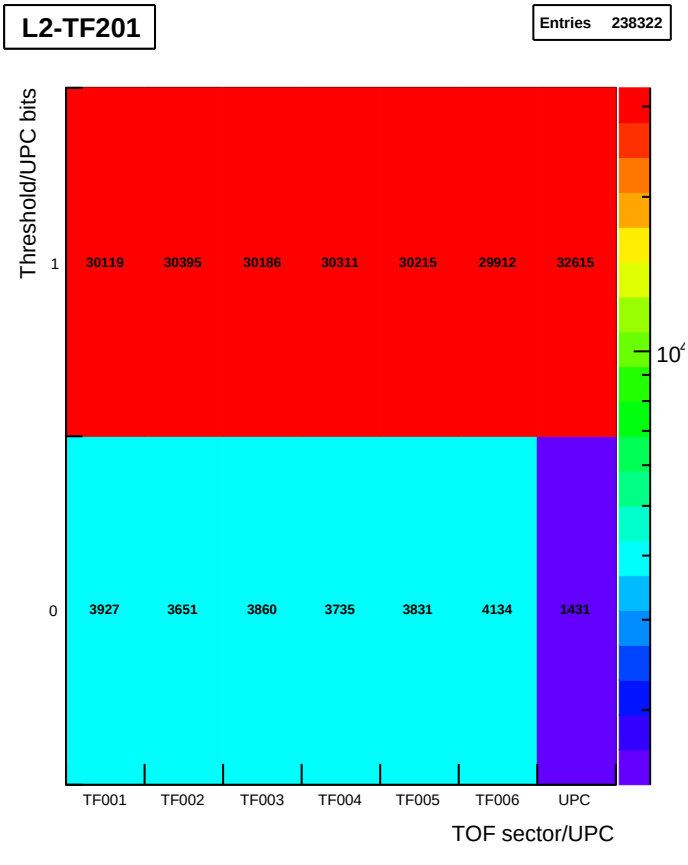

MIX-TF101
Entries 10232
TOF UPC-TH-EastLow(Real-Simu)
10232
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

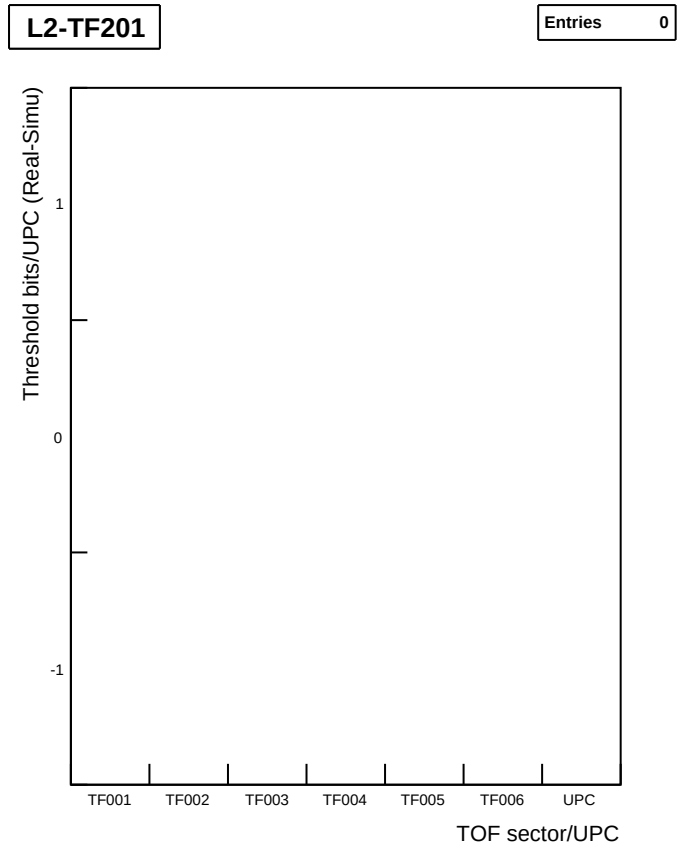

MIX-TF101
Entries 204276
TOF UPC-TH-EastHigh
25181
23458
25796
36646
36646
20426
10665
10588
10929
13520
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

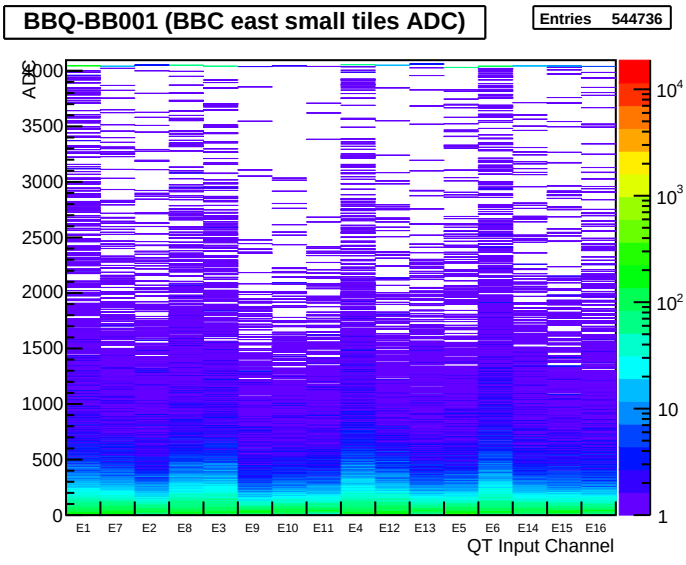

MIX-TF101
Entries 20773
TOF UPC-TH-EastHigh(Real-Simu)
10129
10444
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

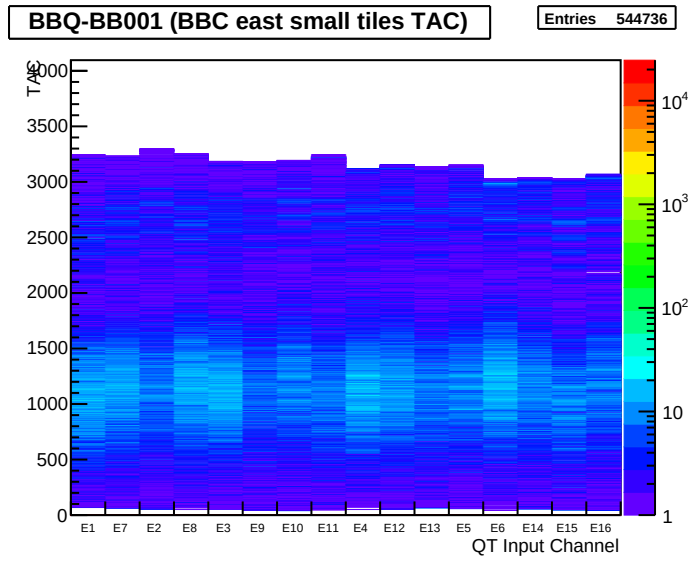

L2-TF201
Entries 34046
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

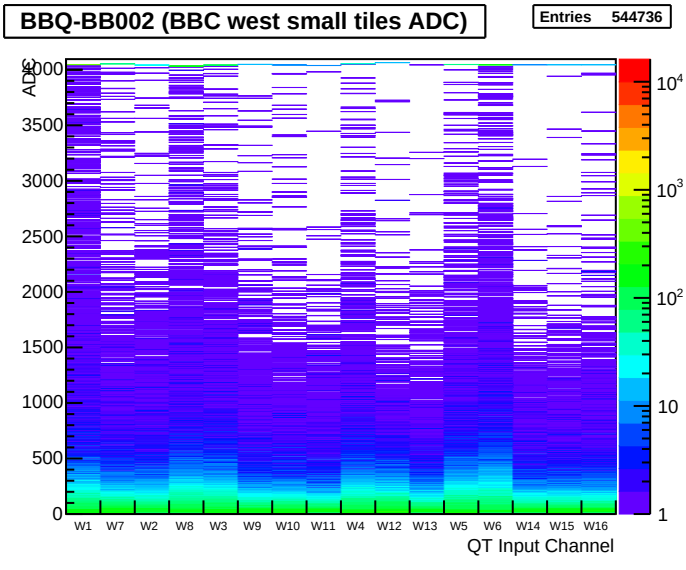

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

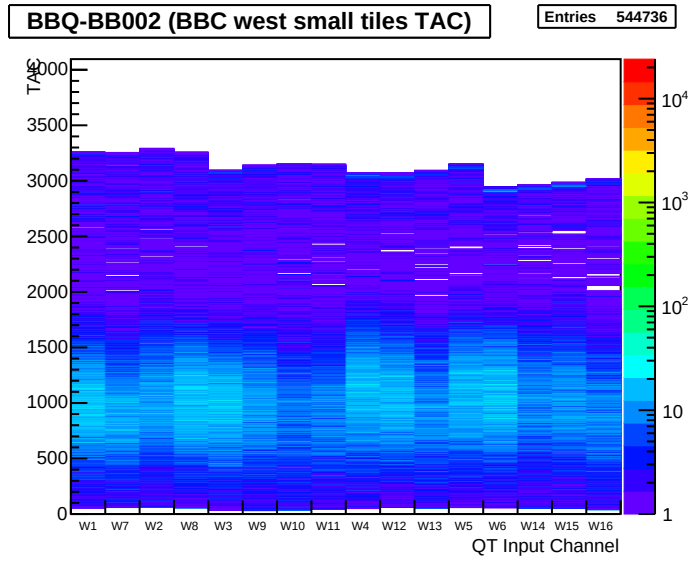

L2-TF201
Entries 238322
Threshold/UPC bits
1
0
30119
30395
30186
30311
30215
29912
32615
3927
3651
3860
3735
3831
4134
1431
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

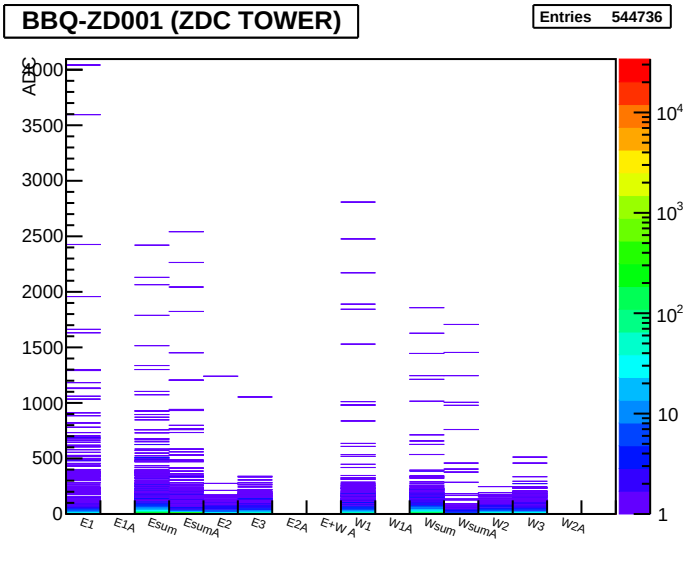

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

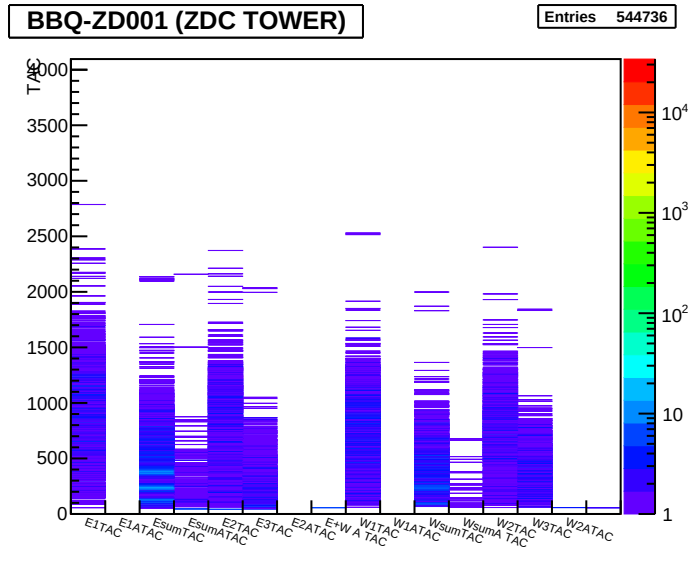

BBQ-BB001 (BBC east small tiles ADC)
Entries 544736
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

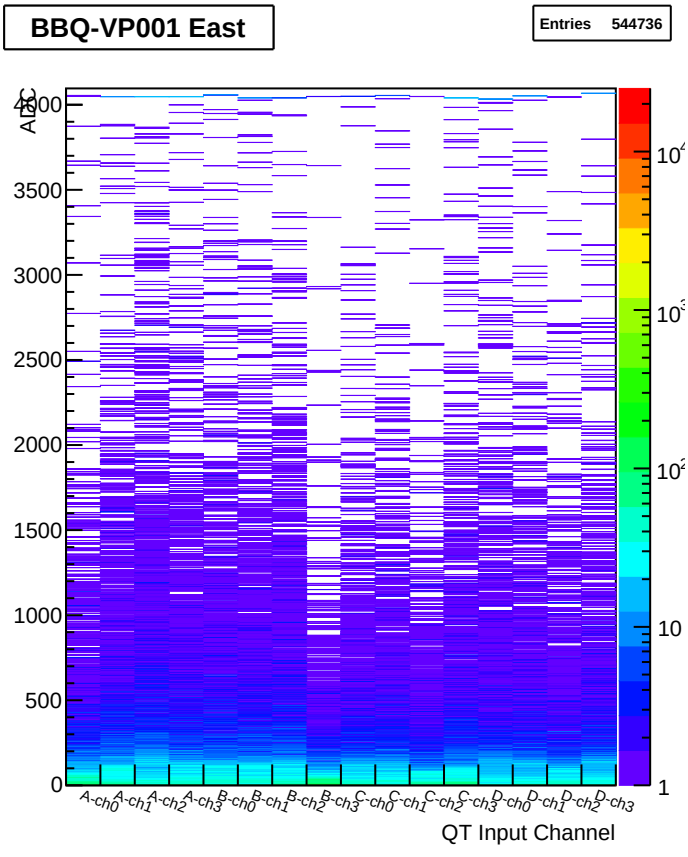

BBQ-BB001 (BBC east small tiles TAC)
Entries 544736
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

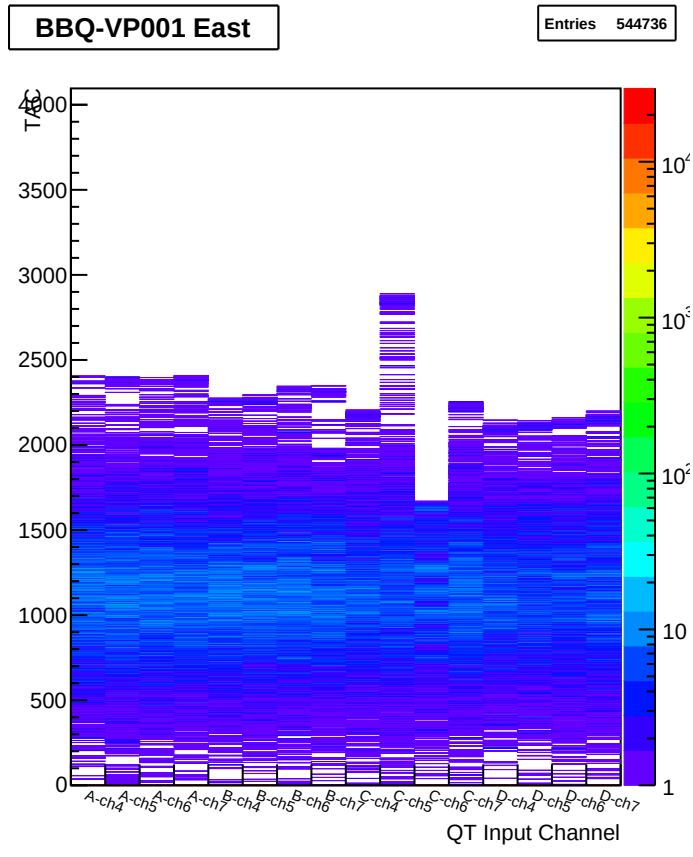

BBQ-BB002 (BBC west small tiles ADC)
Entries 544736
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

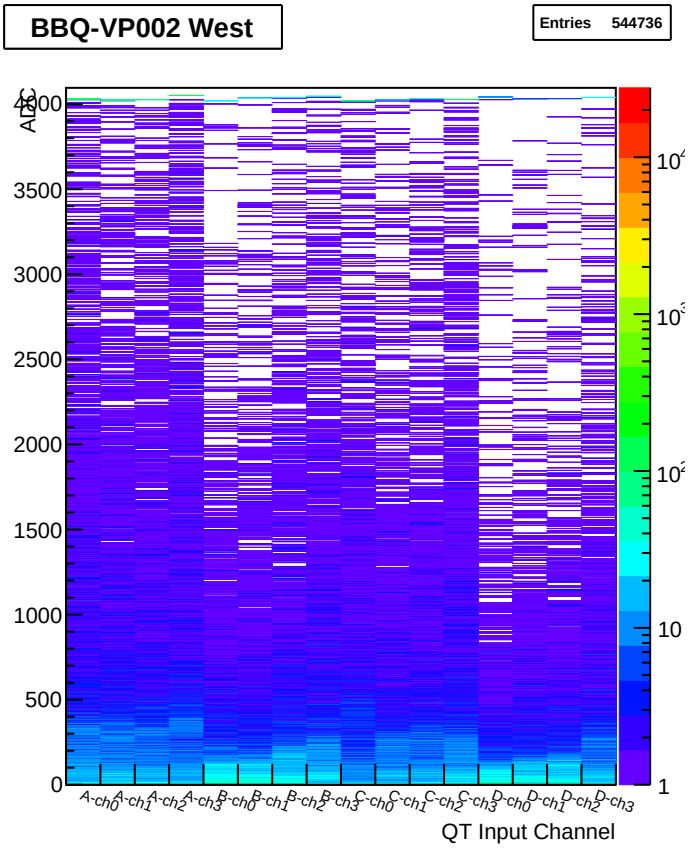

BBQ-BB002 (BBC west small tiles TAC)
Entries 544736
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

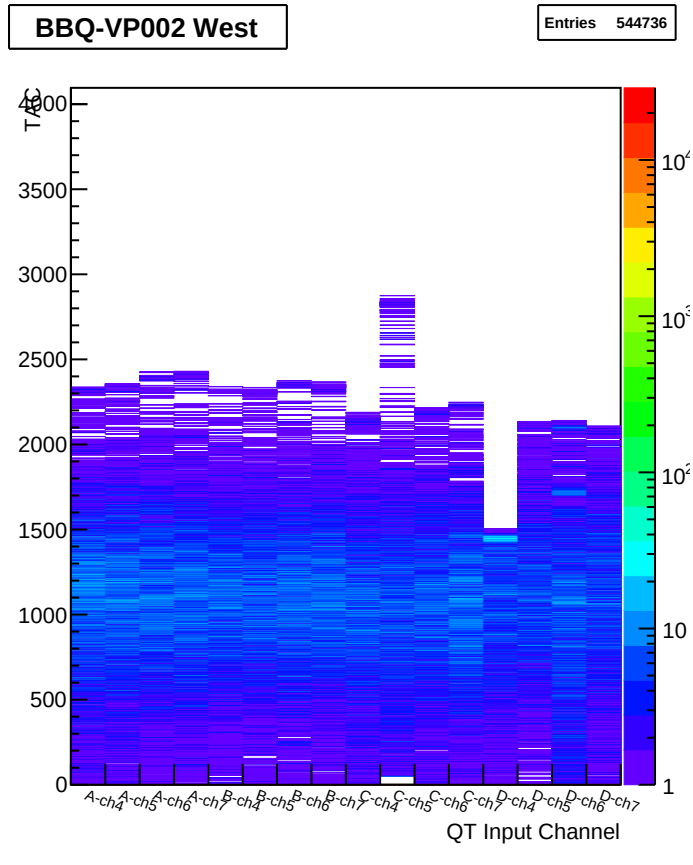

BBQ-ZD001 (ZDC TOWER)
Entries 544736
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

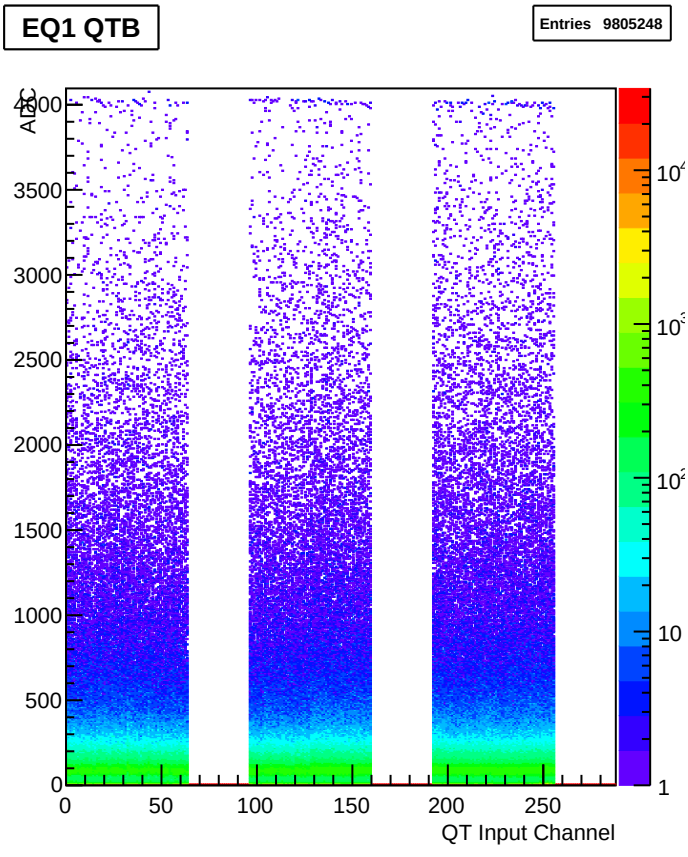

BBQ-ZD001 (ZDC TOWER)
Entries 544736
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

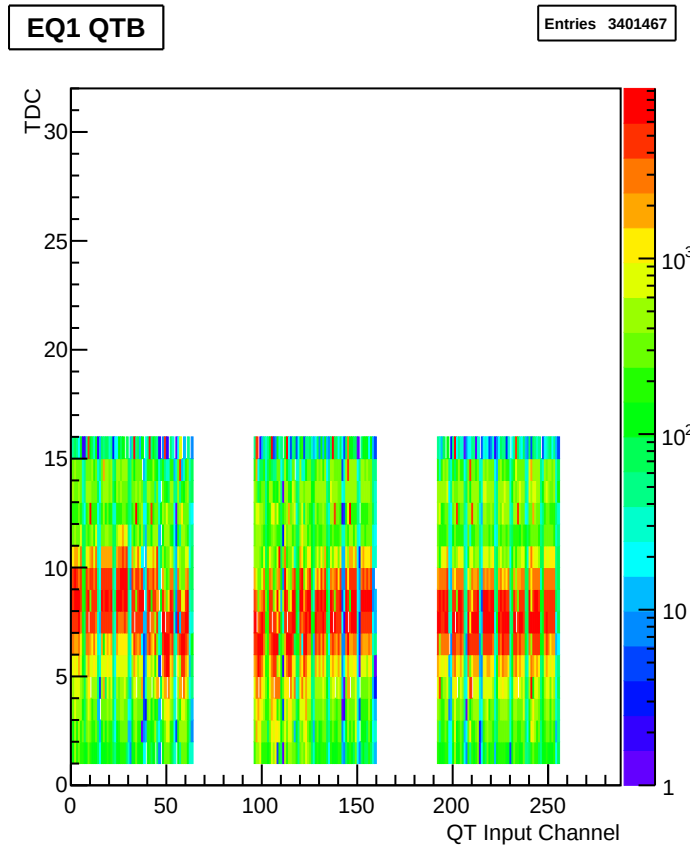

BBQ-VP001 East
Entries 544736
ADC
QT Input Channel

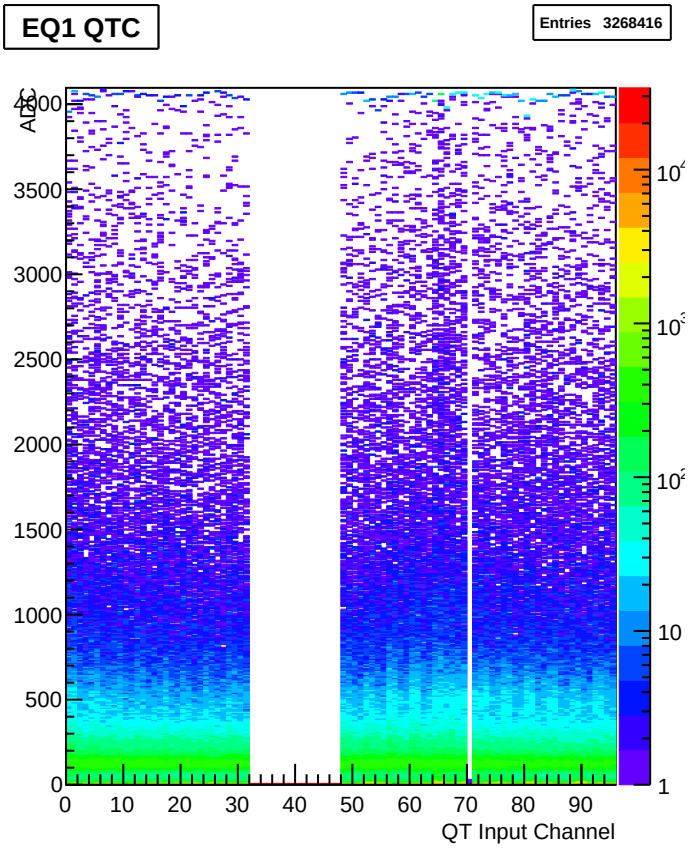

BBQ-VP001 East
Entries 544736
TADC
QT Input Channel

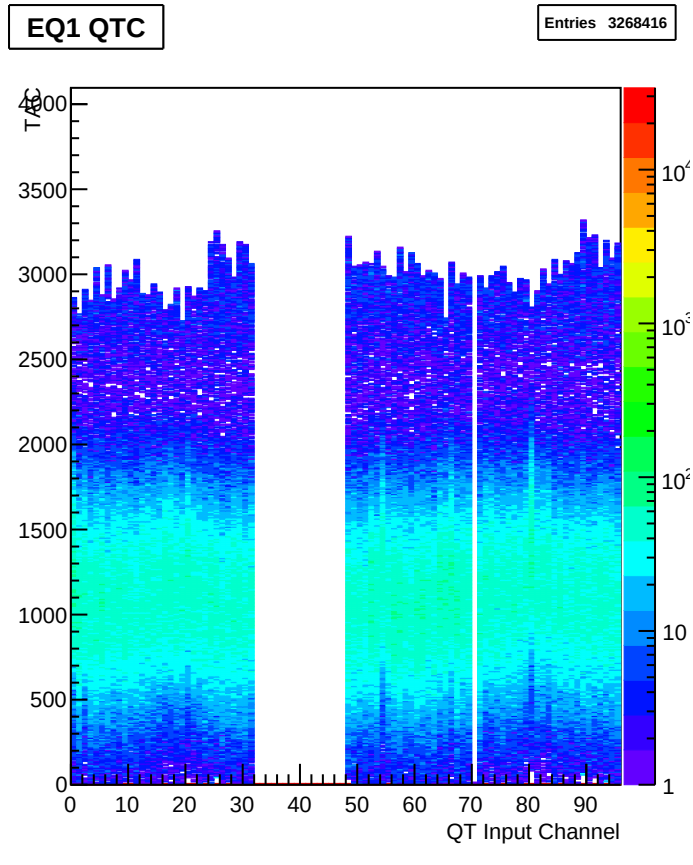

BBQ-VP002 West
Entries 544736
ADC
QT Input Channel

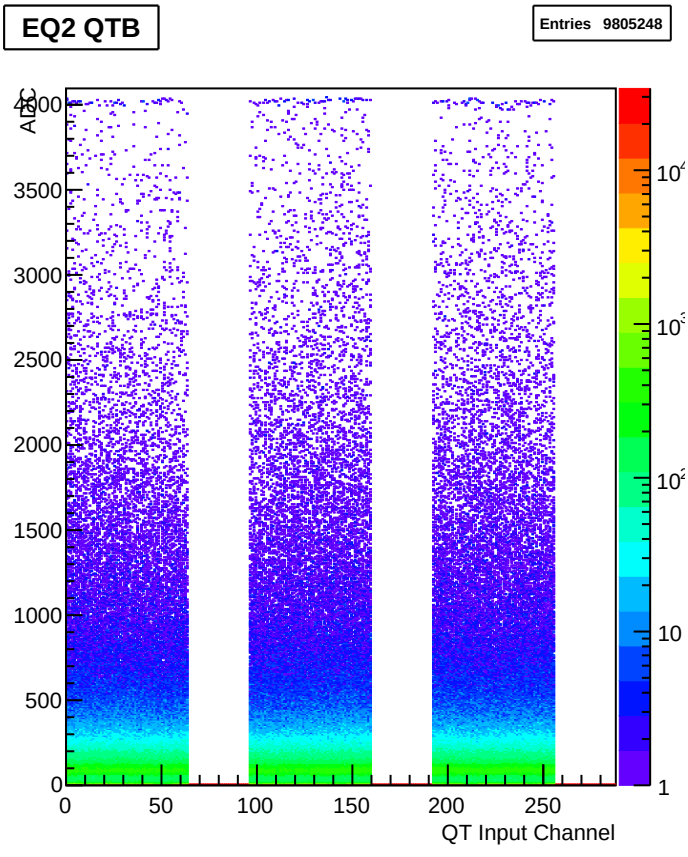

BBQ-VP002 West
Entries 544736
TADC
QT Input Channel

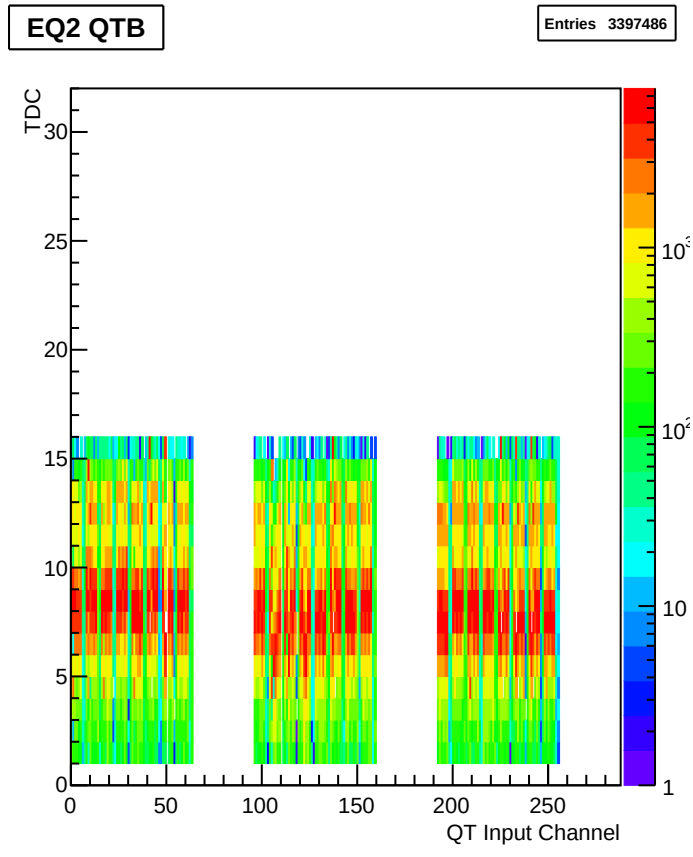

EQ1 QTB
Entries 9805248
ADC
QT Input Channel

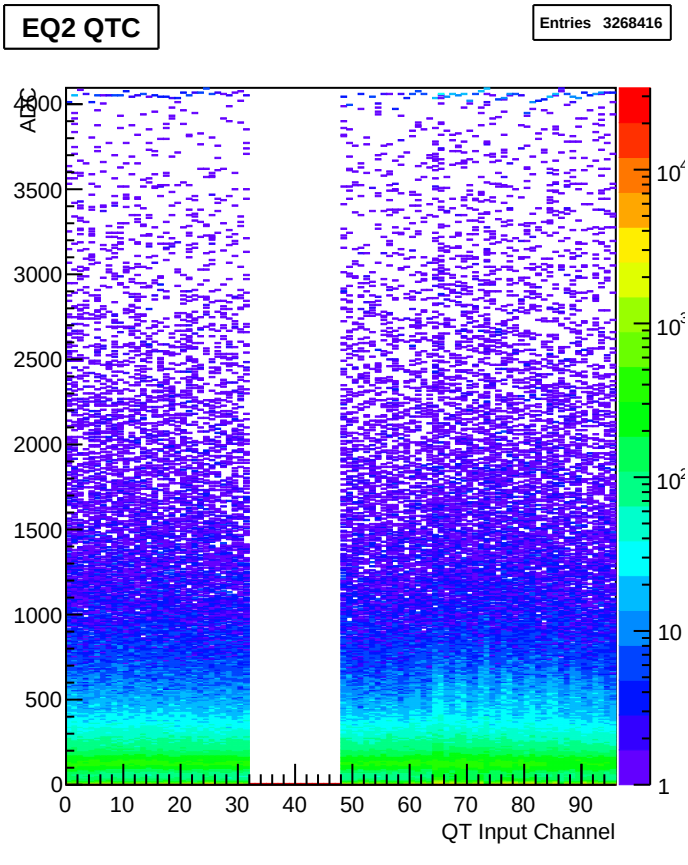

EQ1 QTB
Entries 3401467
TDC
QT Input Channel

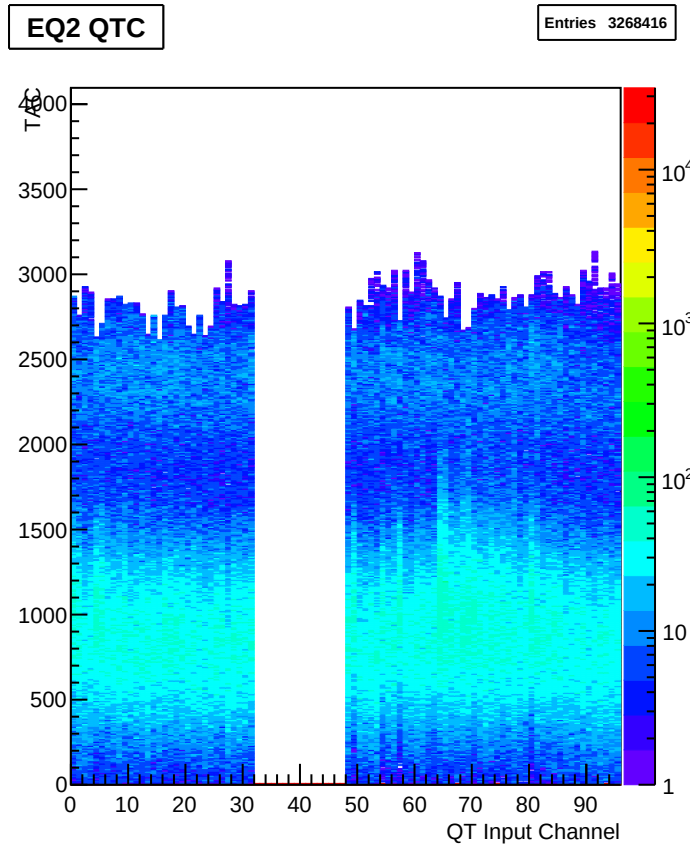

EQ1 QTC
Entries 3268416
ADC
QT Input Channel

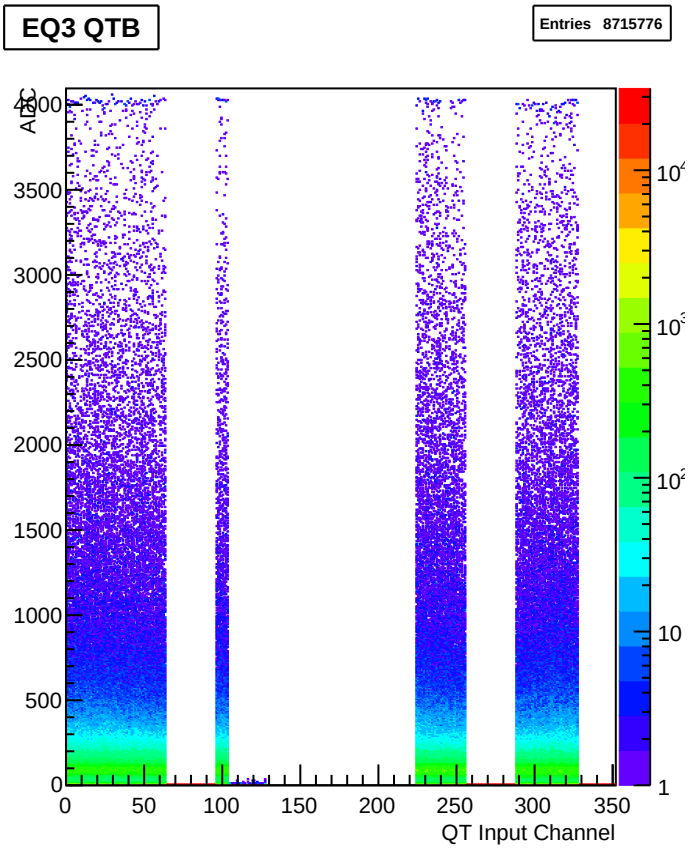

EQ1 QTC
Entries 3268416
TADC
QT Input Channel

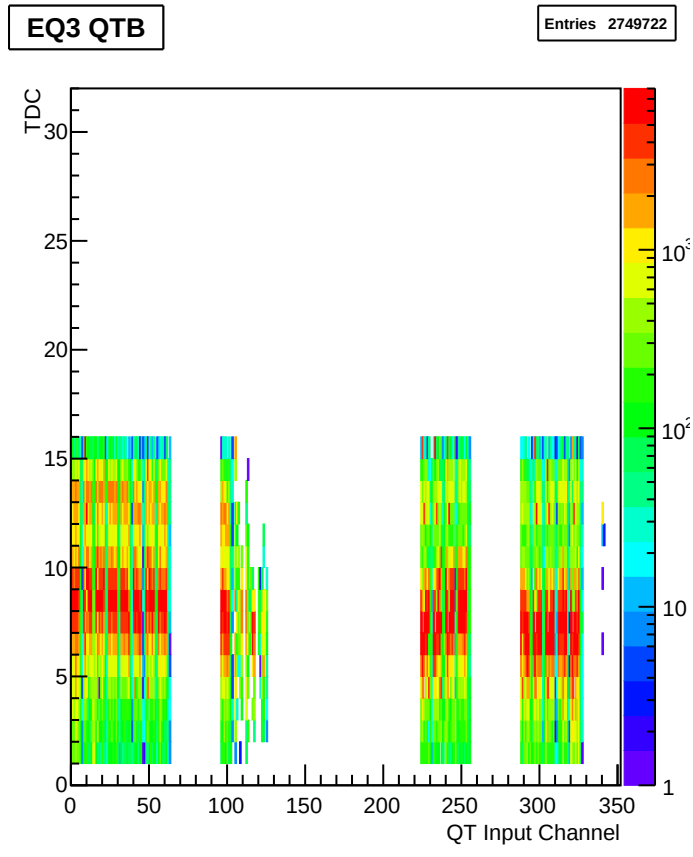

EQ2 QTB
Entries 9805248
ADC
QT Input Channel

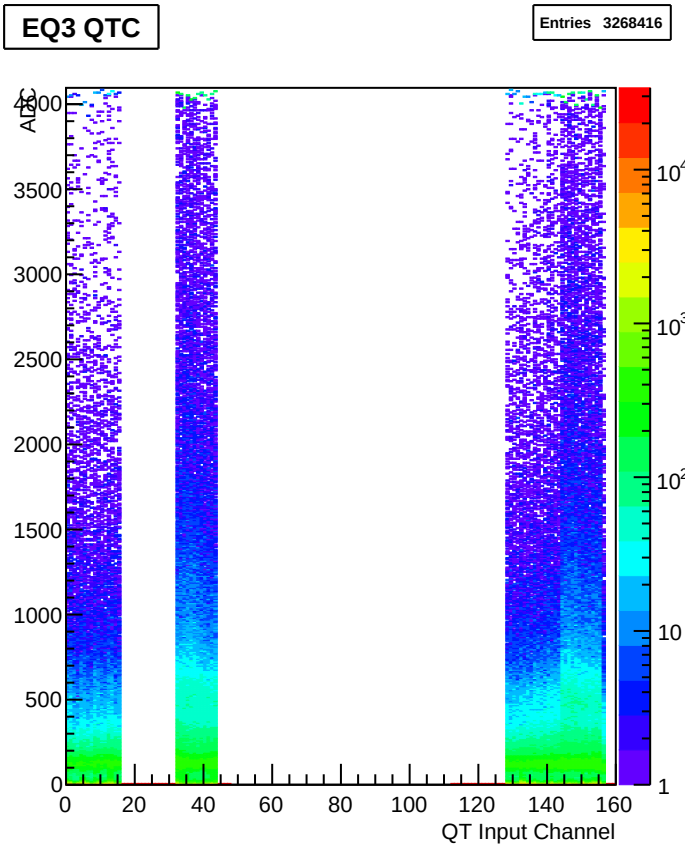

EQ2 QTB
Entries 3397486
TDC
QT Input Channel

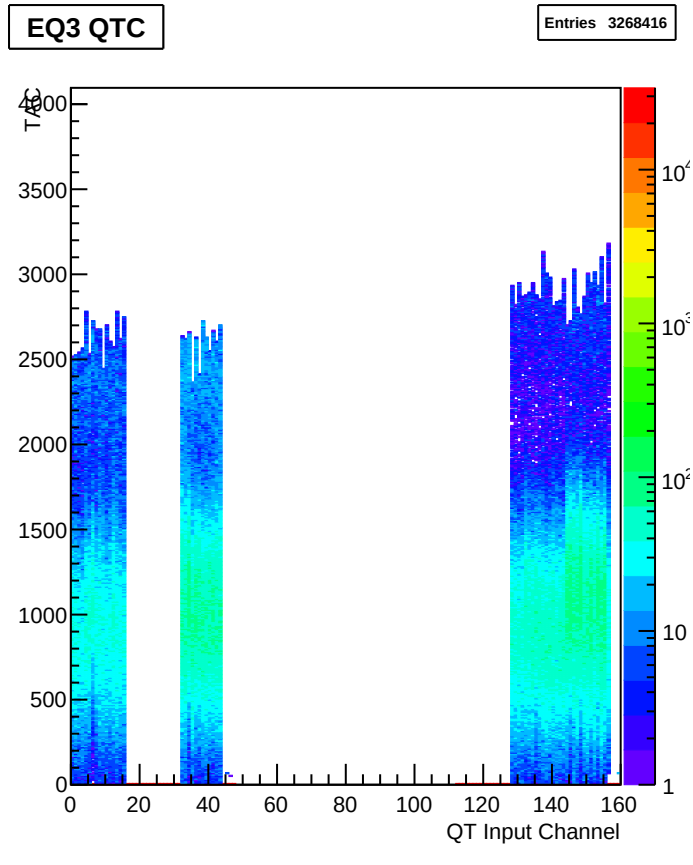

EQ2 QTC
Entries 3268416
ADC
QT Input Channel

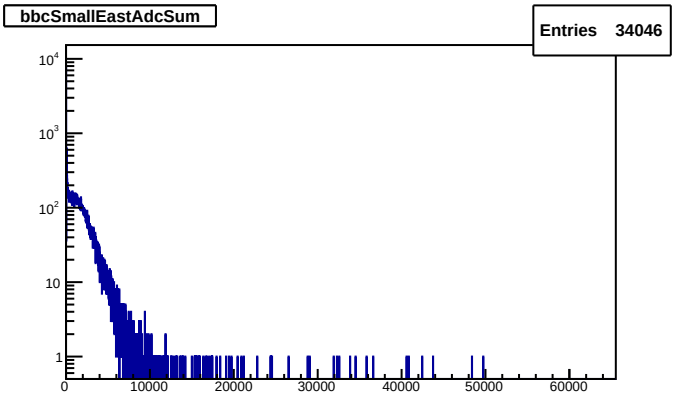

EQ2 QTC
Entries 3268416
TADC
QT Input Channel

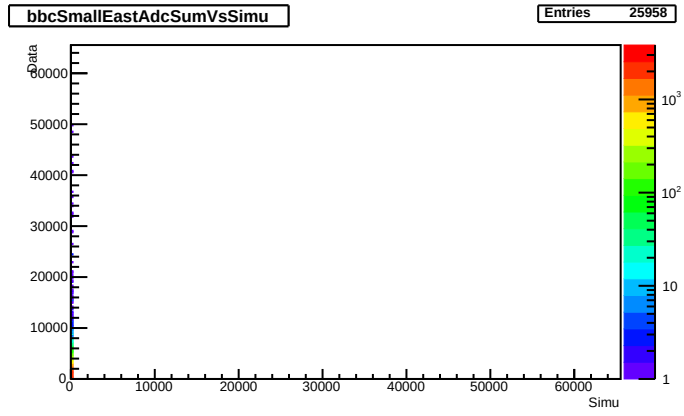

EQ3 QTB
Entries 8715776
ADC
QT Input Channel

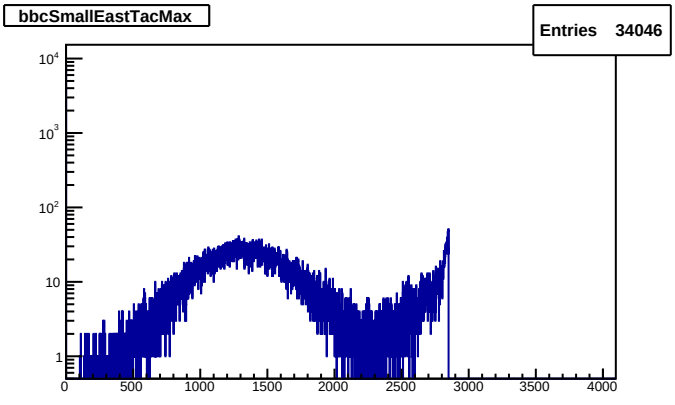

EQ3 QTB
Entries 2749722
TDC
QT Input Channel

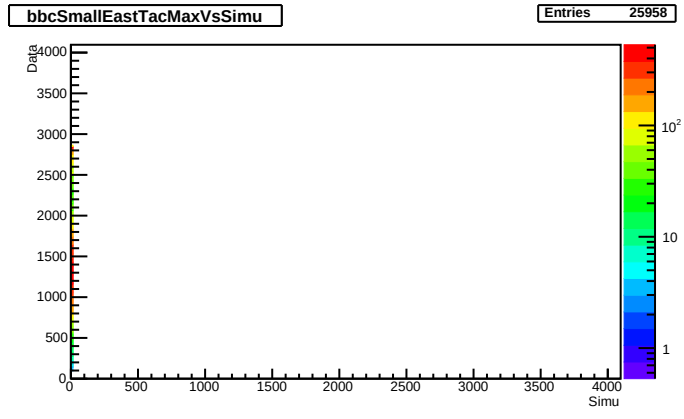

EQ3 QTC
Entries 3268416
ADC
QT Input Channel

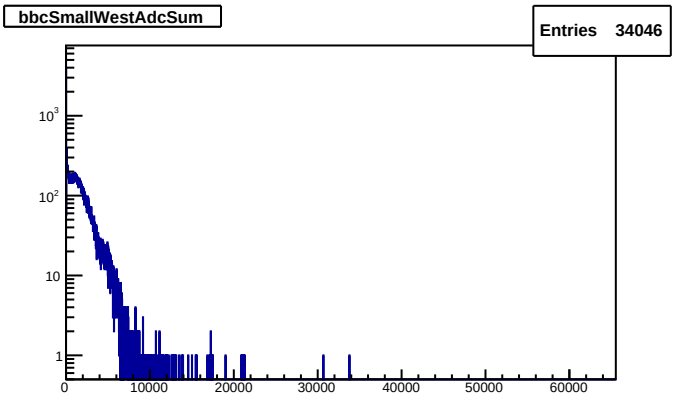

EQ3 QTC
Entries 3268416
TADC
QT Input Channel

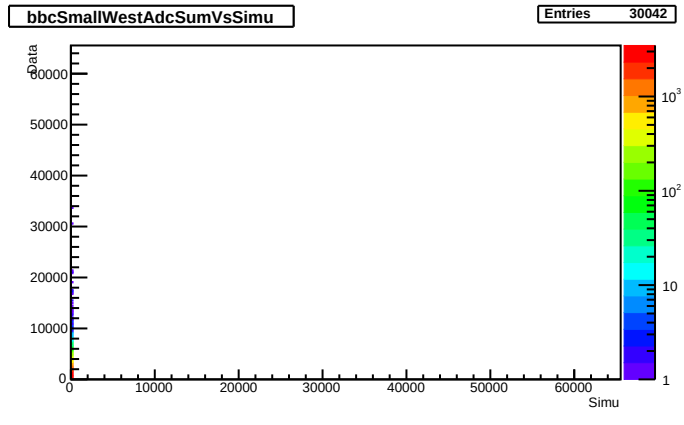

bbcSmallEastAdcSum
Entries 34046

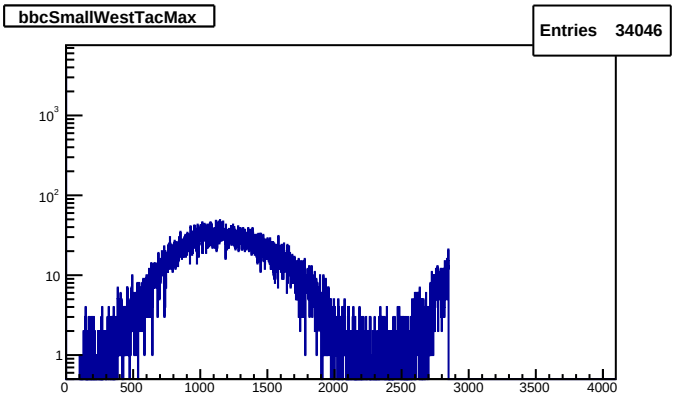

bbcSmallEastAdcSumVsSimu
Entries 25958
Data
Simu

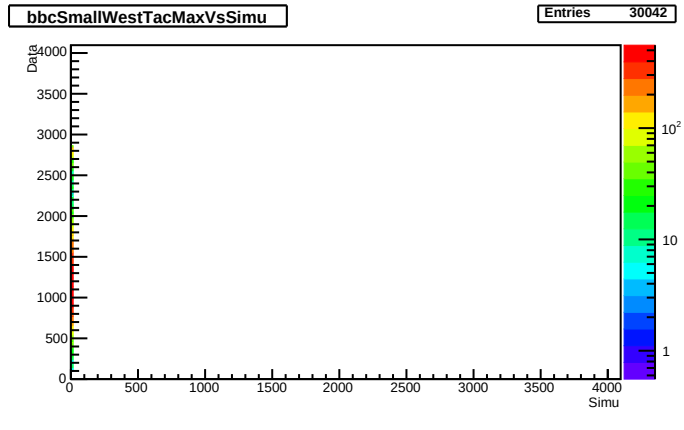

bbcSmallEastTacMax
Entries 34046

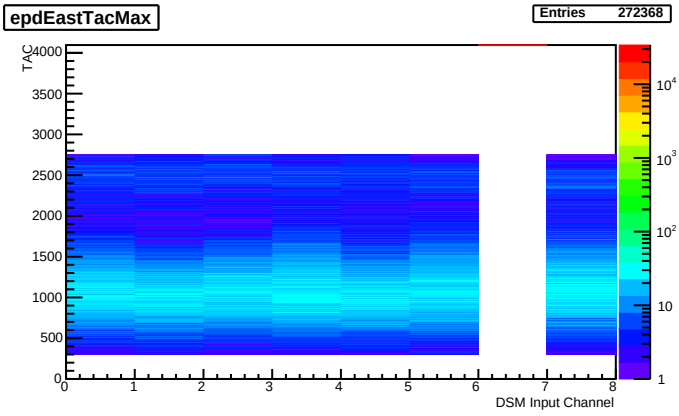

bbcSmallEastTacMaxVsSimu
Entries 25958
Data
Simu

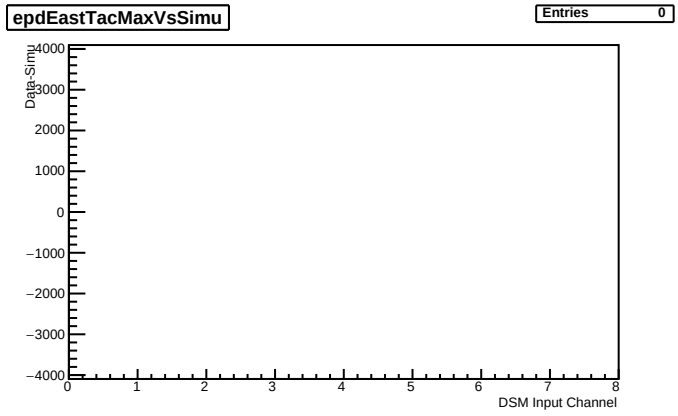

bbcSmallWestAdcSum
Entries 34046

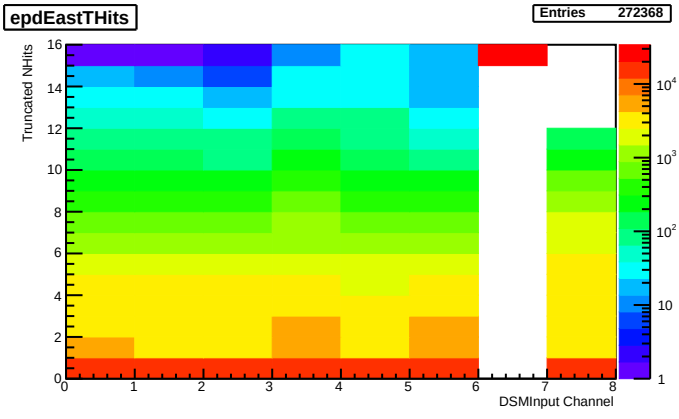

bbcSmallWestAdcSumVsSimu
Entries 30042
Data
Simu

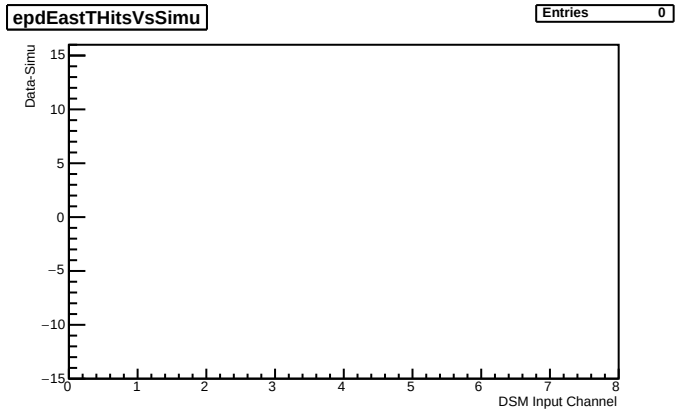

bbcSmallWestTacMax
Entries 34046


bbcSmallWestTacMaxVsSimu
Entries 30042
Data
Simu


epdEastTacMax
Entries 272368
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 272368
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
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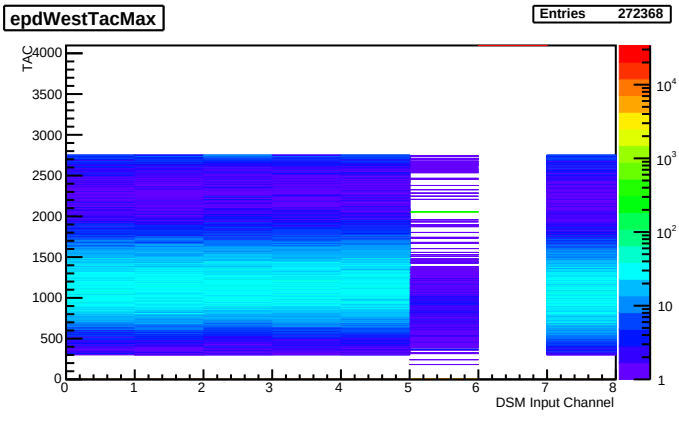
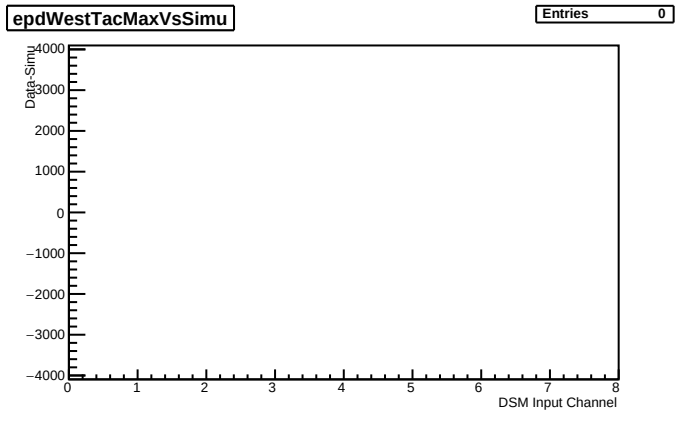
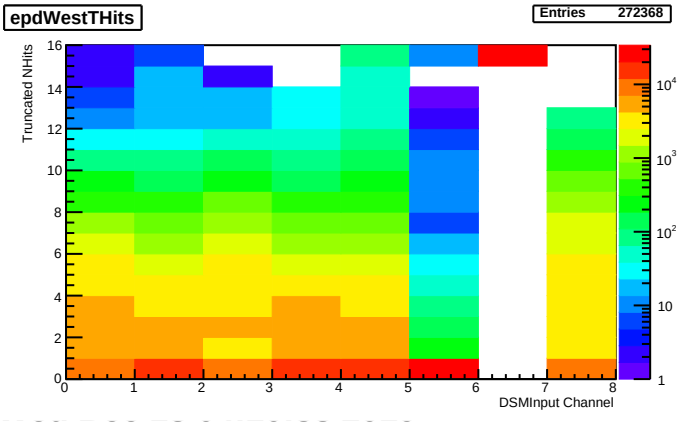
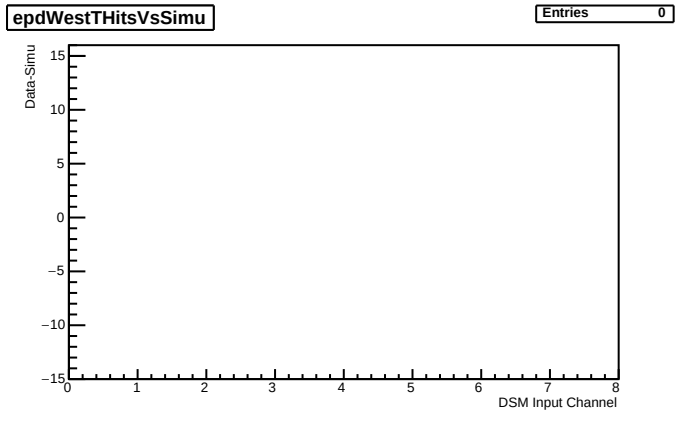
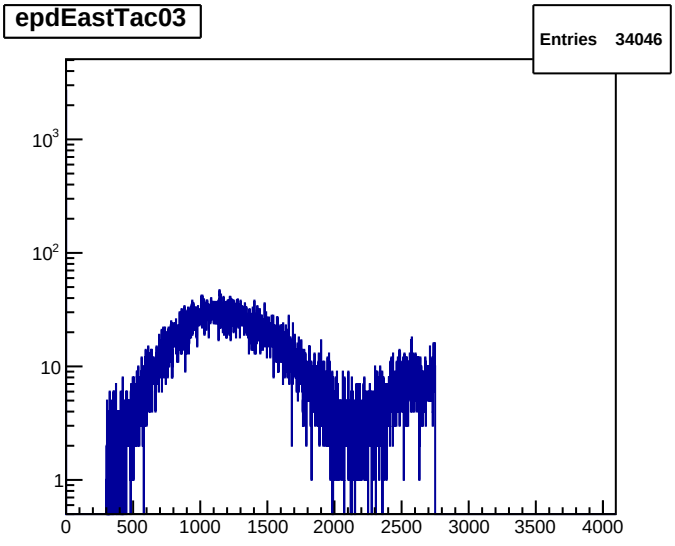
Data-Simu
DSM Input Channel

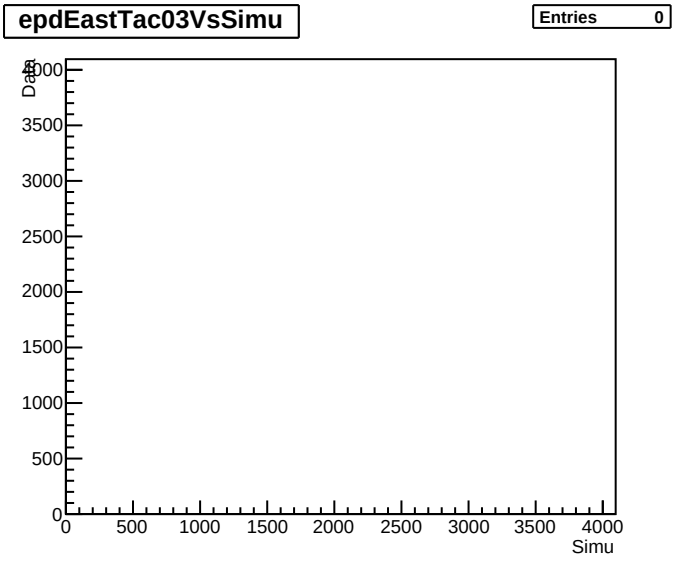

epdWestTacMax
Entries 272368
TAC
DSM Input Channel

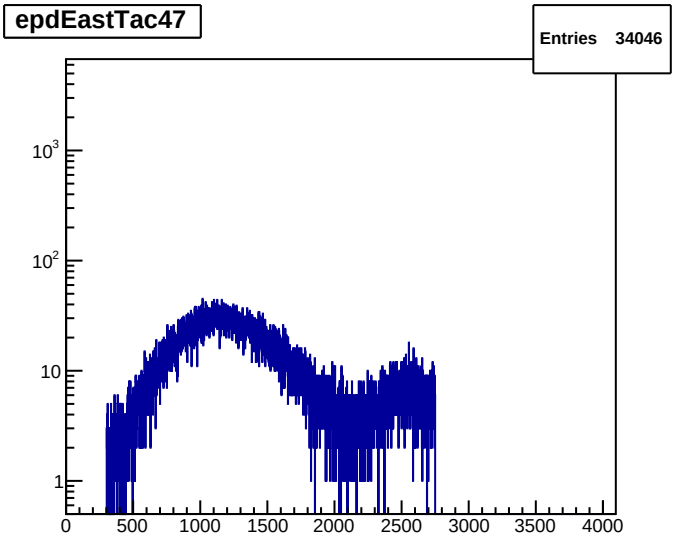

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

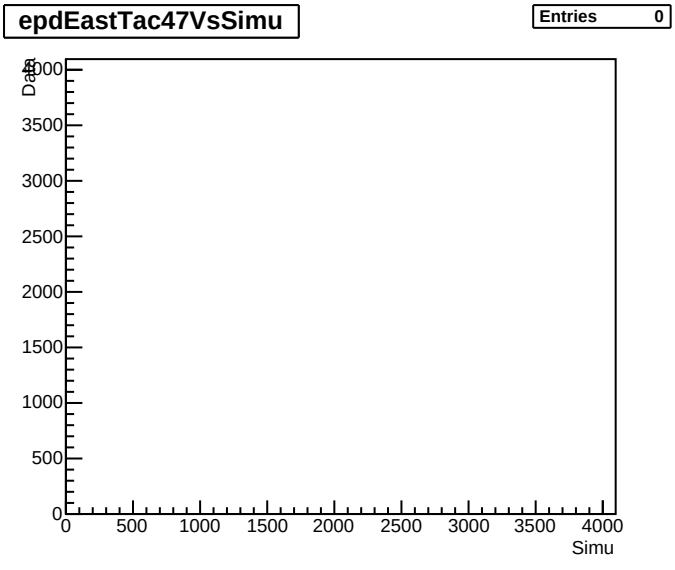

epdWestTHits
Entries 272368
Truncated NHits
DSMInput Channel

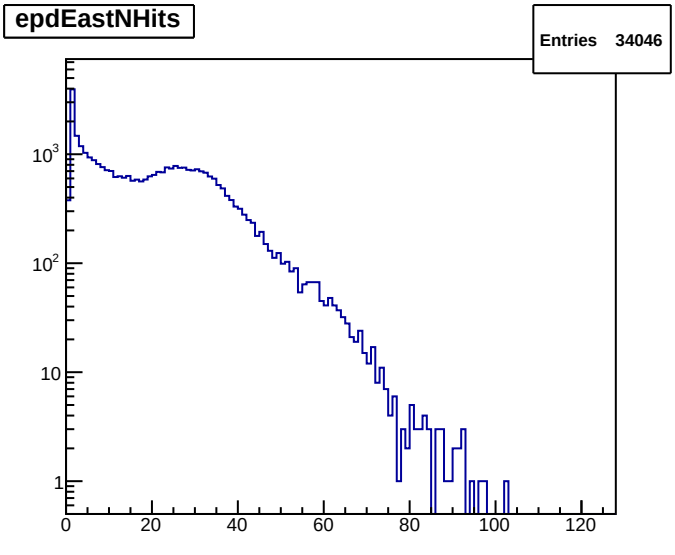

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

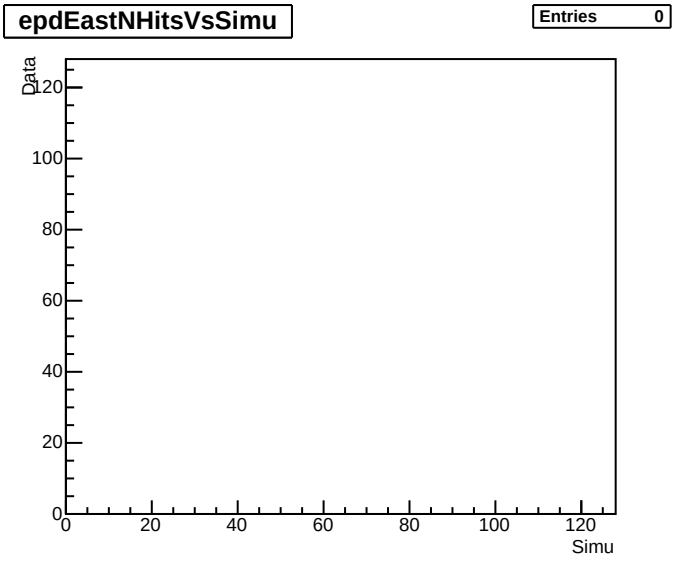

epdEastTac03
Entries 34046
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

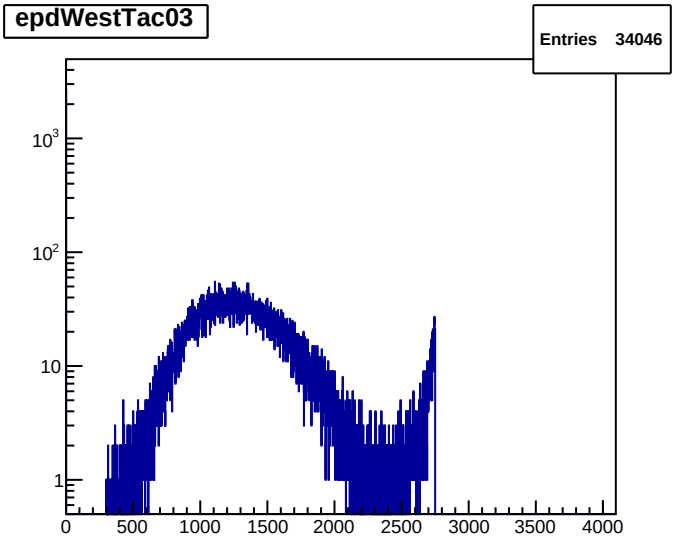

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

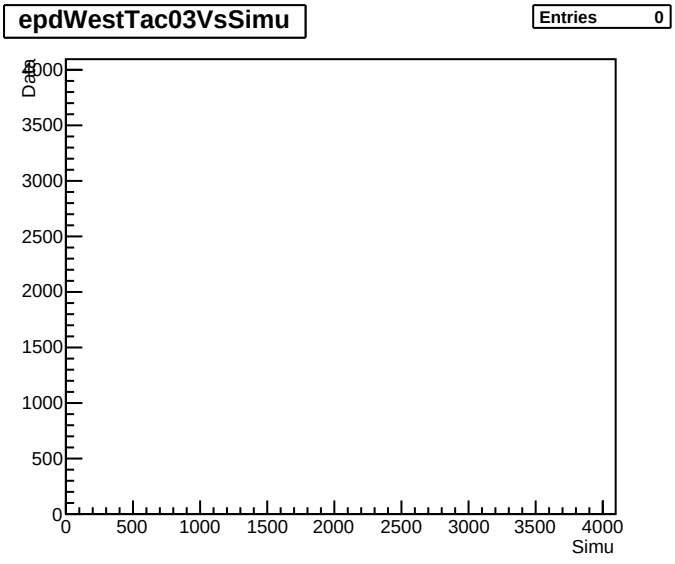

epdEastTac47
Entries 34046
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

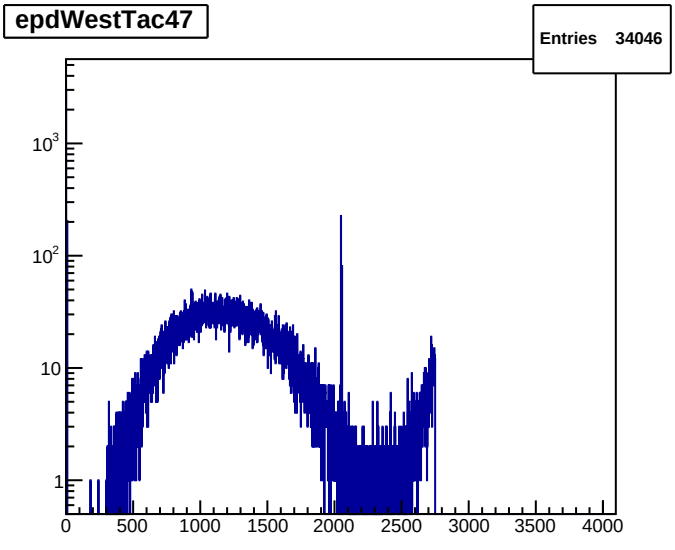

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

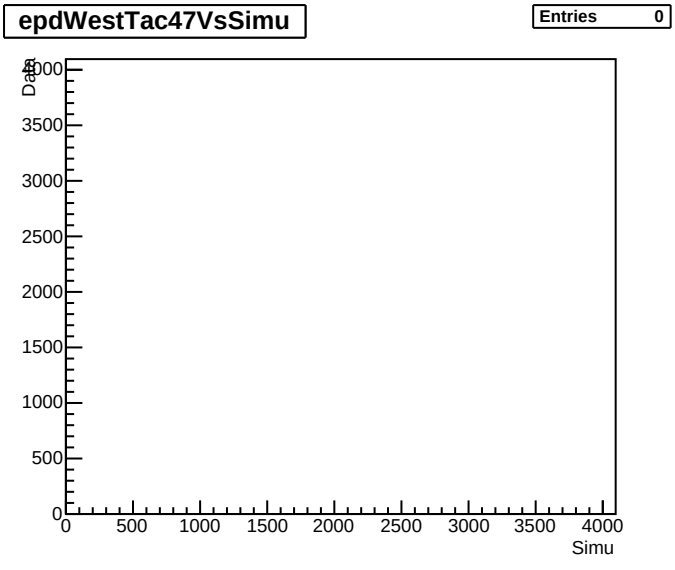

epdEastNHits
Entries 34046
10^3
10^2
10
1
0 20 40 60 80 100 120

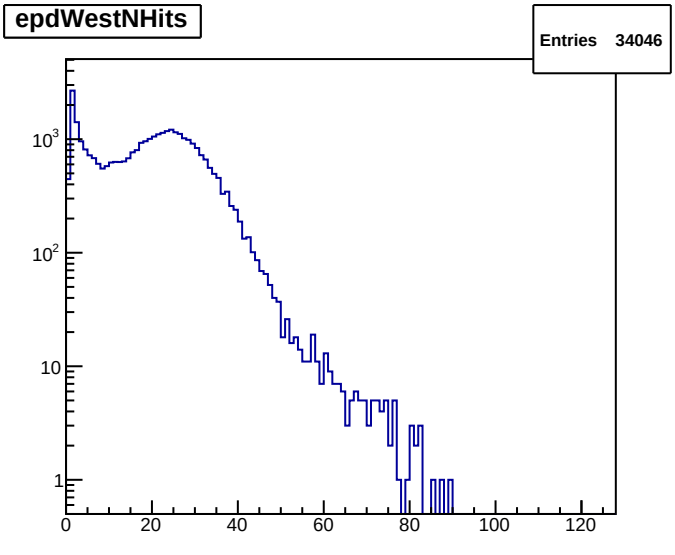

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

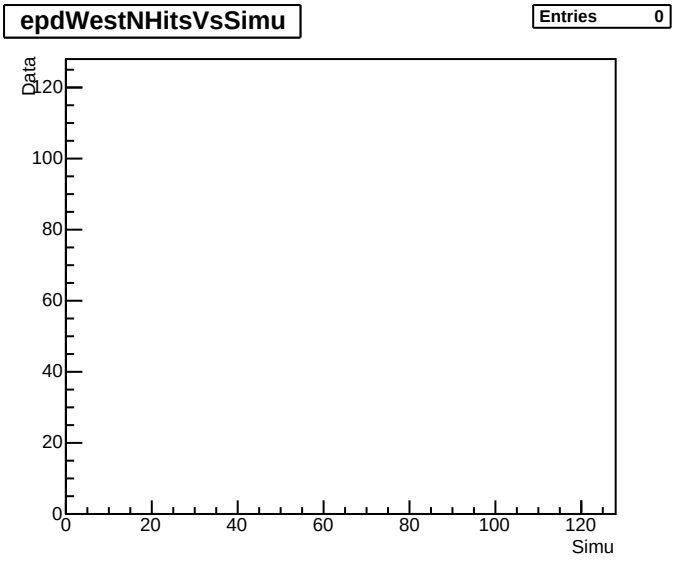

epdWestTac03
Entries 34046

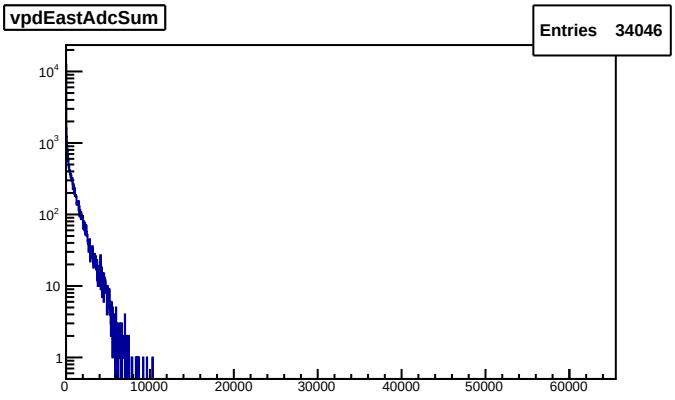

epdWestTac03VsSimu
Entries 0
Data
Simu

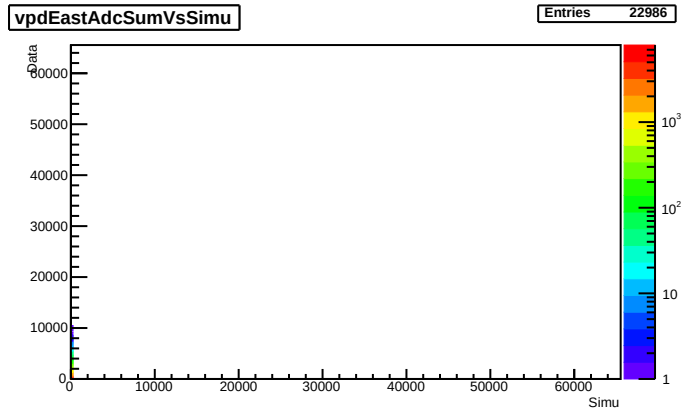

epdWestTac47
Entries 34046

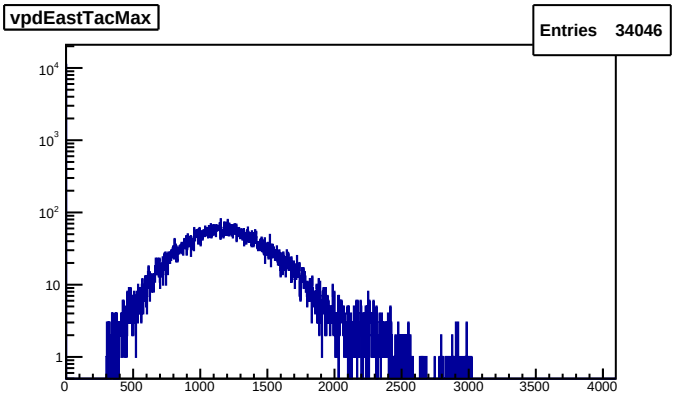

epdWestTac47VsSimu
Entries 0
Data
Simu

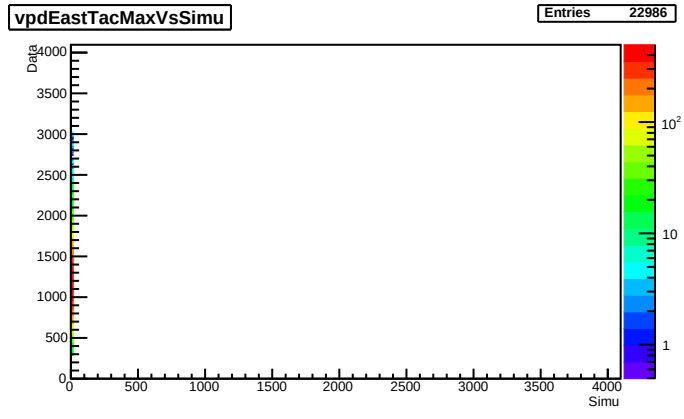

epdWestNHits
Entries 34046

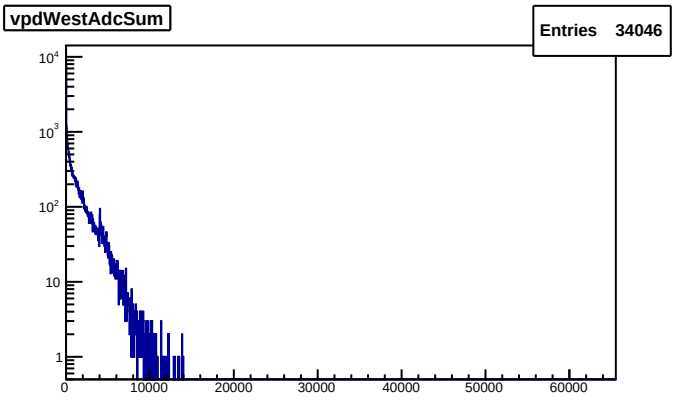

epdWestNHitsVsSimu
Entries 0
Data
Simu

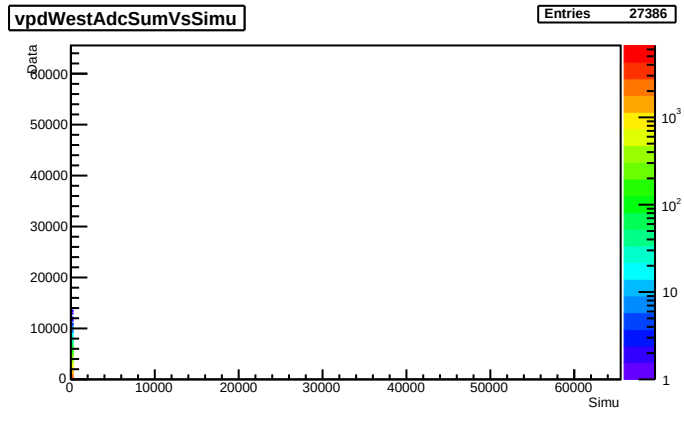

vpdEastAdcSum
Entries 34046

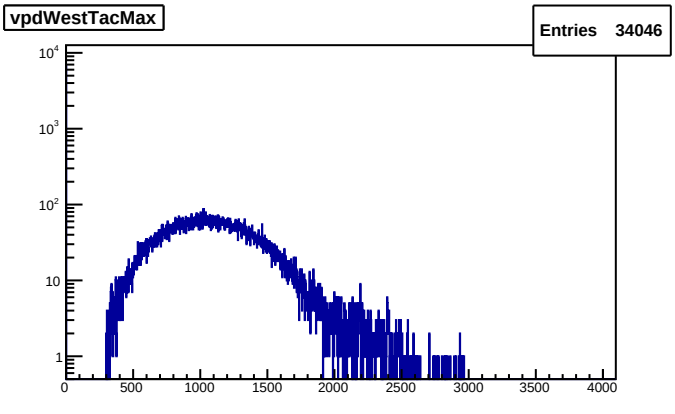

vpdEastAdcSumVsSimu
Entries 22986
Data
Simu

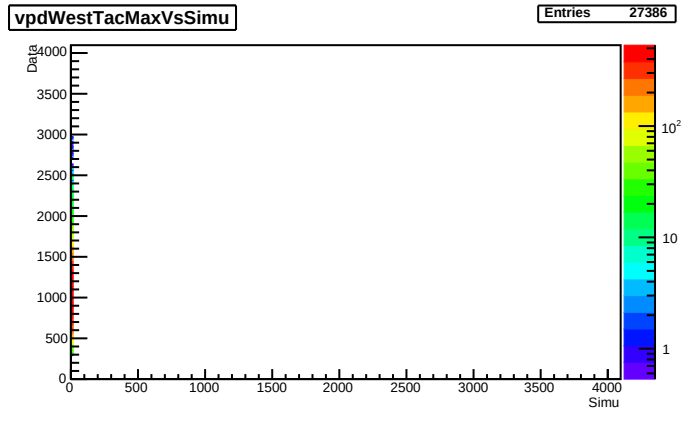

vpdEastTacMax
Entries 34046

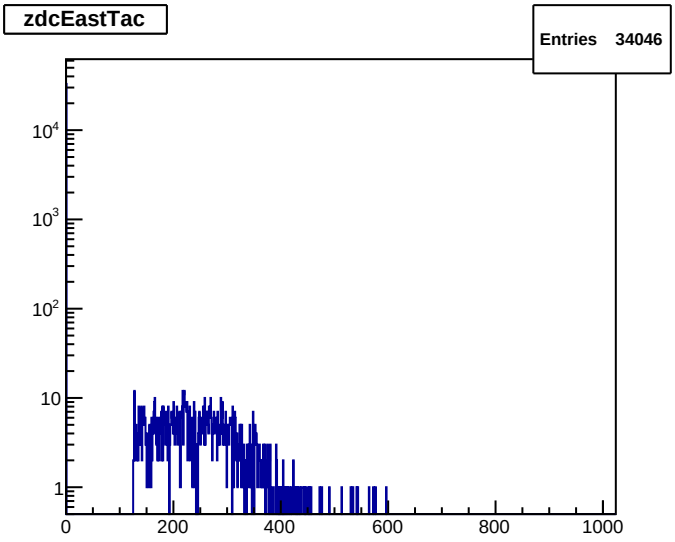

vpdEastTacMaxVsSimu
Entries 22986
Data
Simu

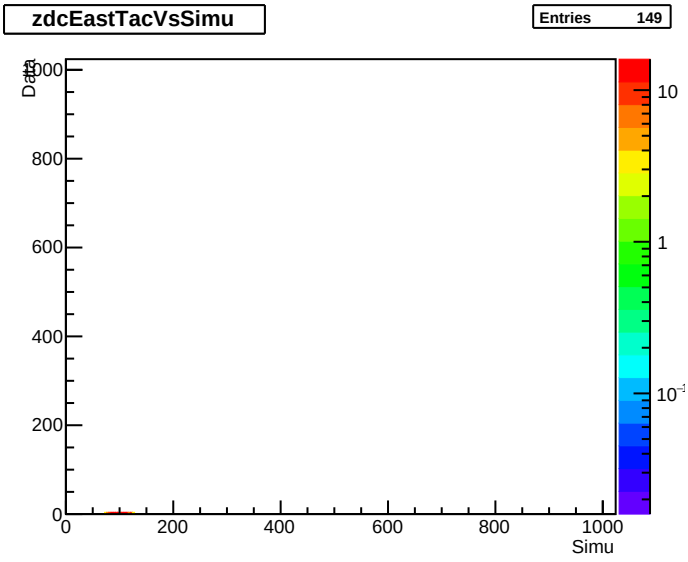

vpdWestAdcSum
Entries 34046

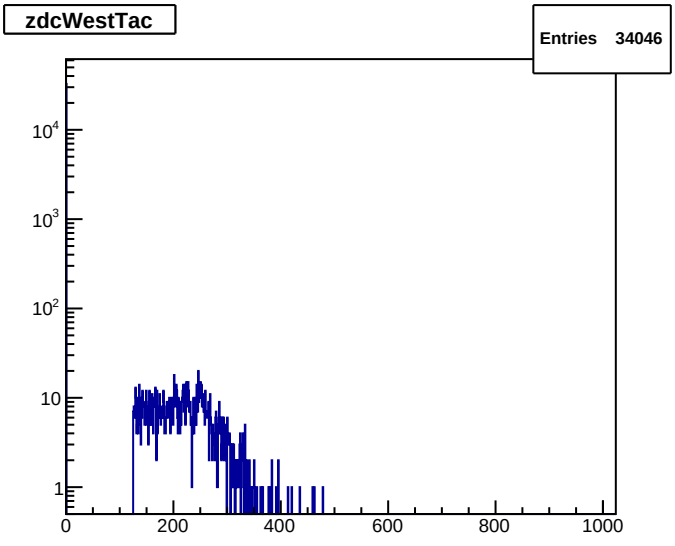

vpdWestAdcSumVsSimu
Entries 27386
Data
Simu

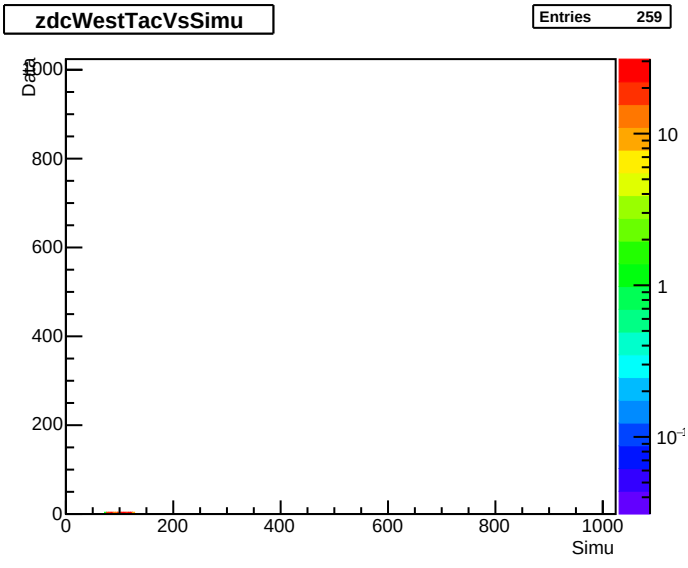

vpdWestTacMax
Entries 34046

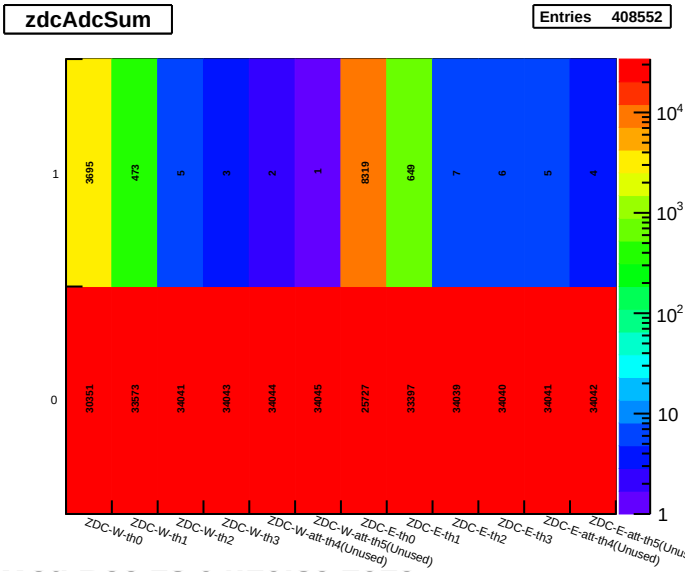

vpdWestTacMaxVsSimu
Entries 27386
Data
Simu

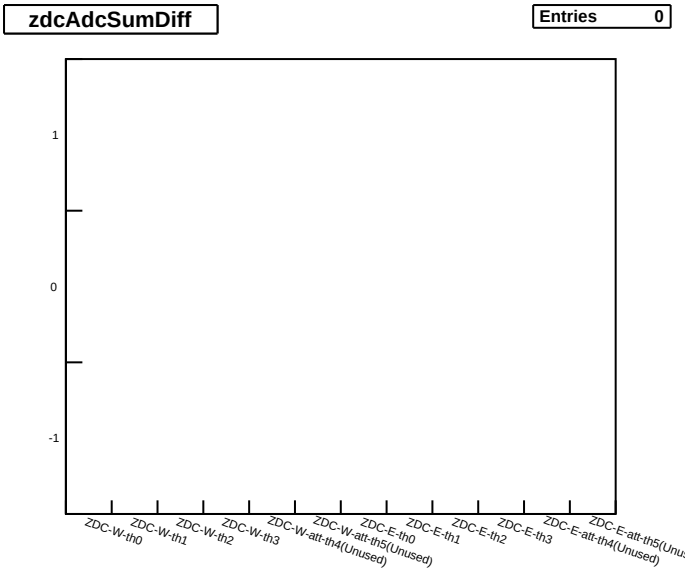

zdcEastTac
Entries 34046
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

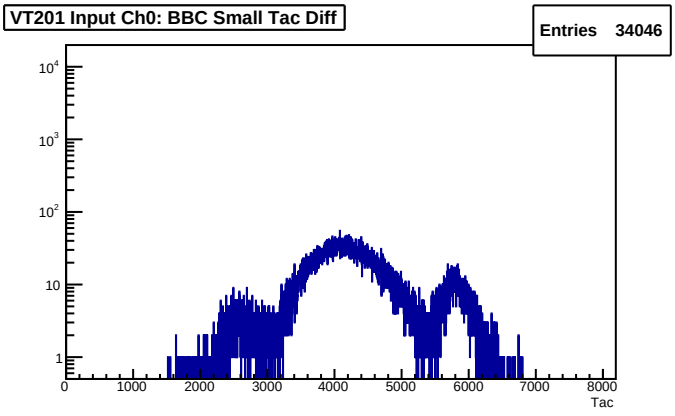

zdcEastTacVsSimu
Entries 149
Data
1000
800
600
400
200
0
Simu
10
1
10^{-1}

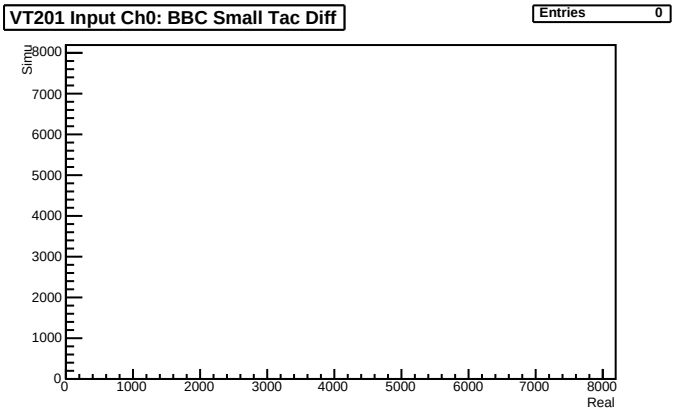

zdcWestTac
Entries 34046
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

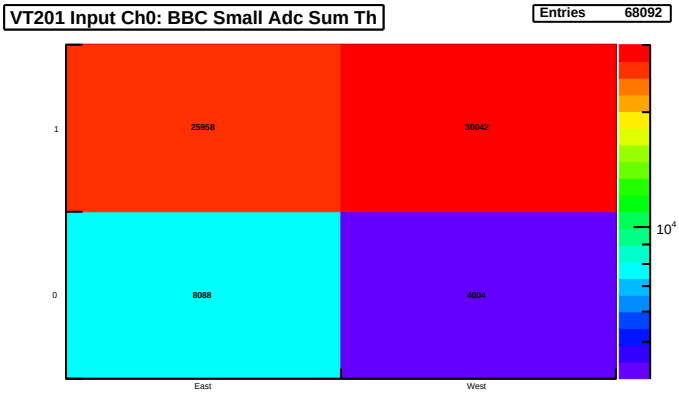

zdcWestTacVsSimu
Entries 259
Data
1000
800
600
400
200
0
Simu
10
1
10^{-1}

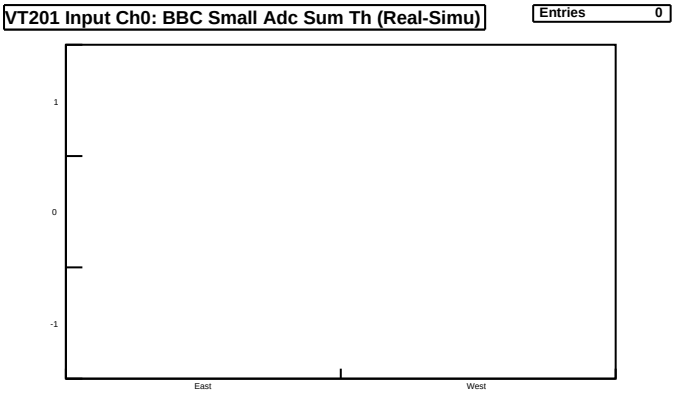

zdcAdcSum
Entries 408552
1
0
3695
473
5
3
2
1
8319
649
7
6
5
4
30551
33573
34041
34043
34044
34045
25727
33397
34039
34040
34041
34042
10^4
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

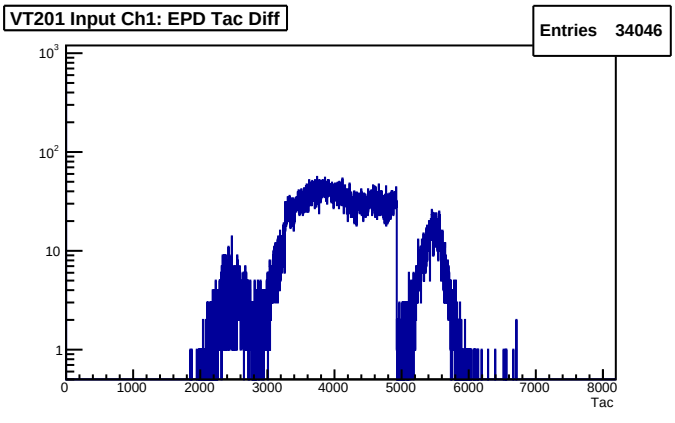

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

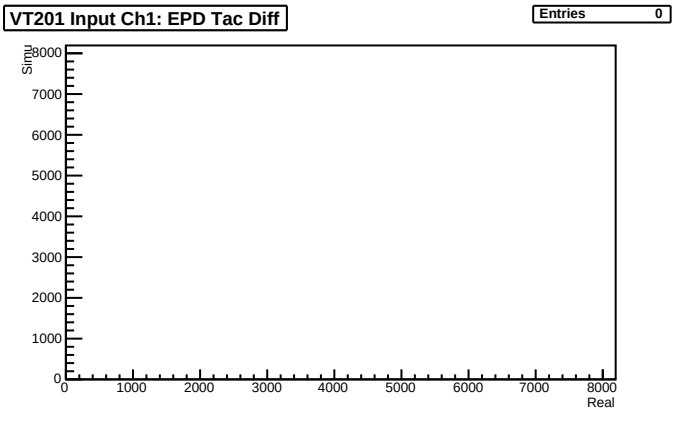

VT201 Input Ch0: BBC Small Tac Diff
Entries 34046
Tac

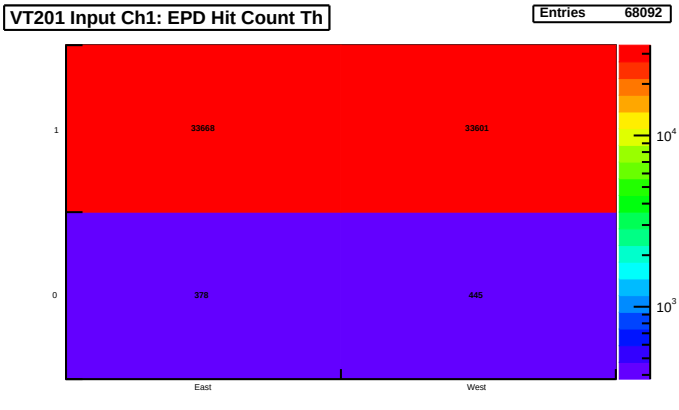

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

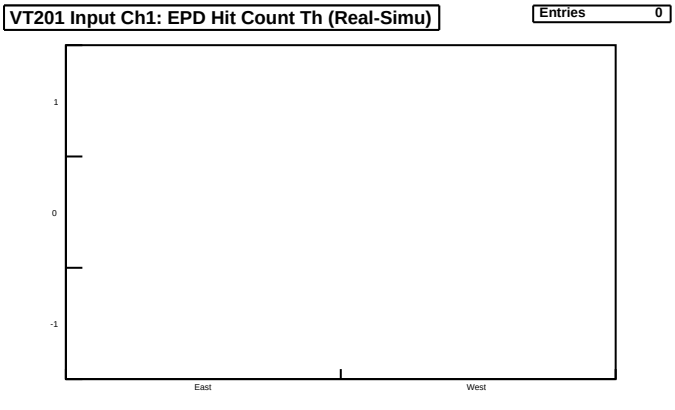

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 68092
25958
30042
8088
4004
East
West

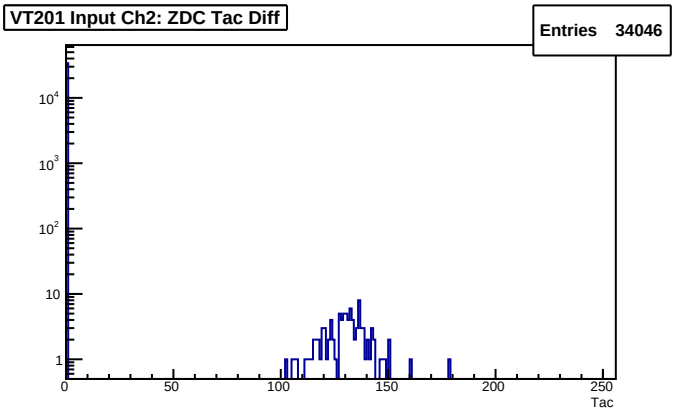

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

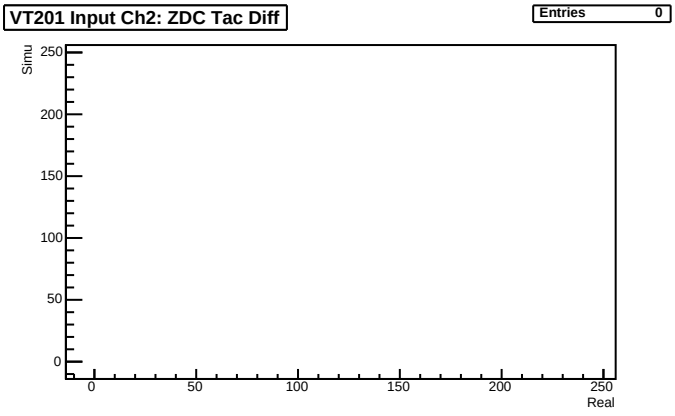

VT201 Input Ch1: EPD Tac Diff
Entries 34046
Tac

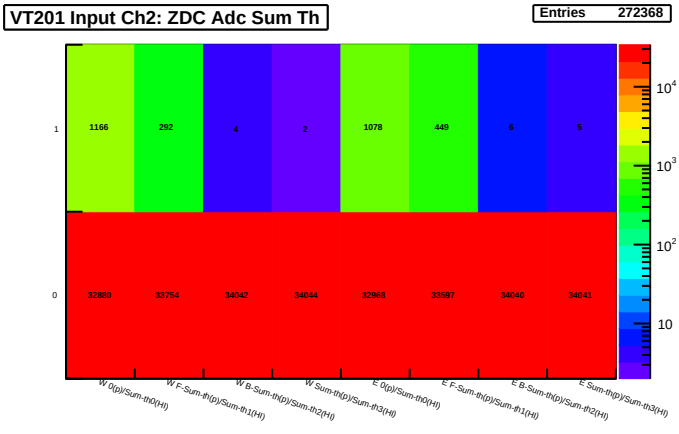

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

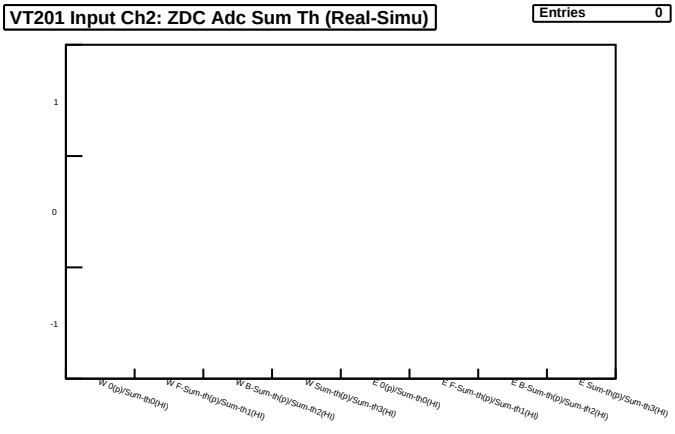

VT201 Input Ch1: EPD Hit Count Th
Entries 68092
33668
33601
378
445
East
West

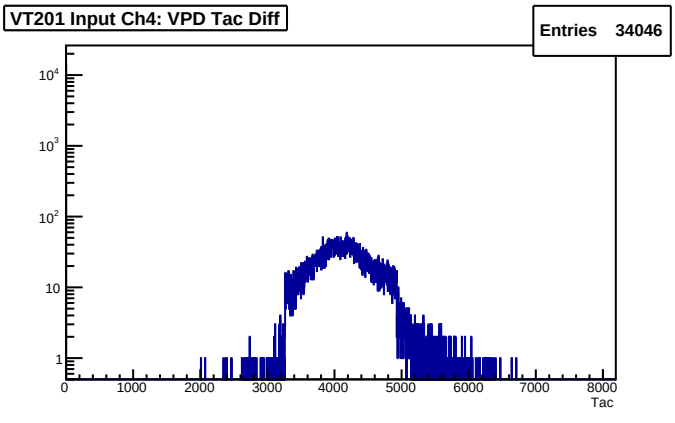

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

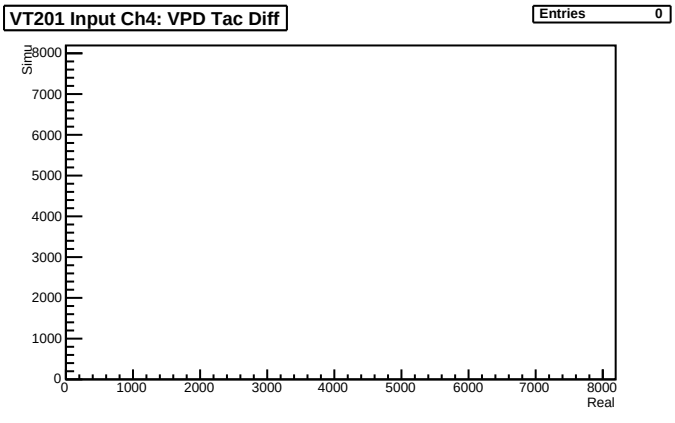

VT201 Input Ch2: ZDC Tac Diff
Entries 34046
Tac

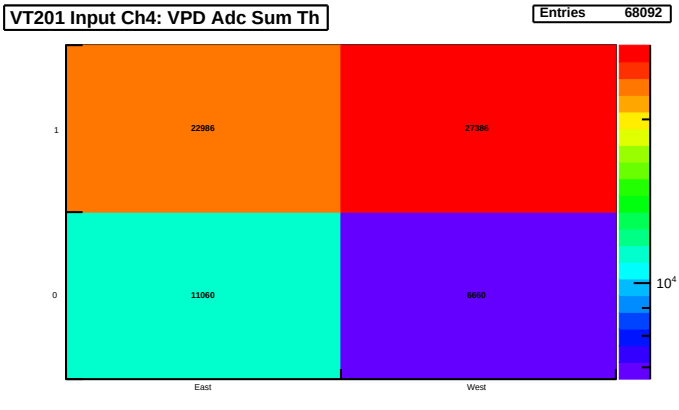

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

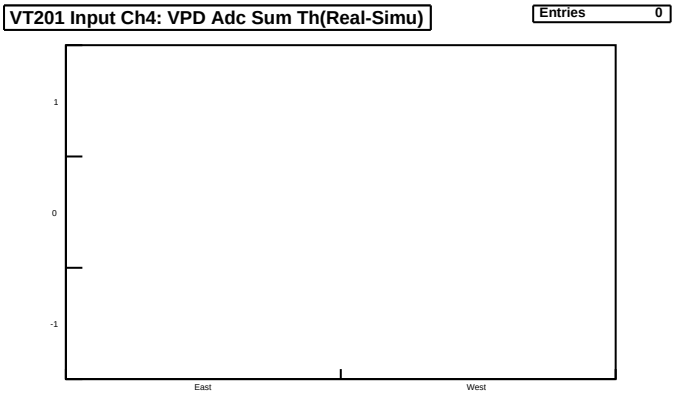

VT201 Input Ch2: ZDC Adc Sum Th
Entries 272368
1166
292
4
2
1078
449
6
5
32880
33754
34042
34044
32968
33597
34040
34041
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

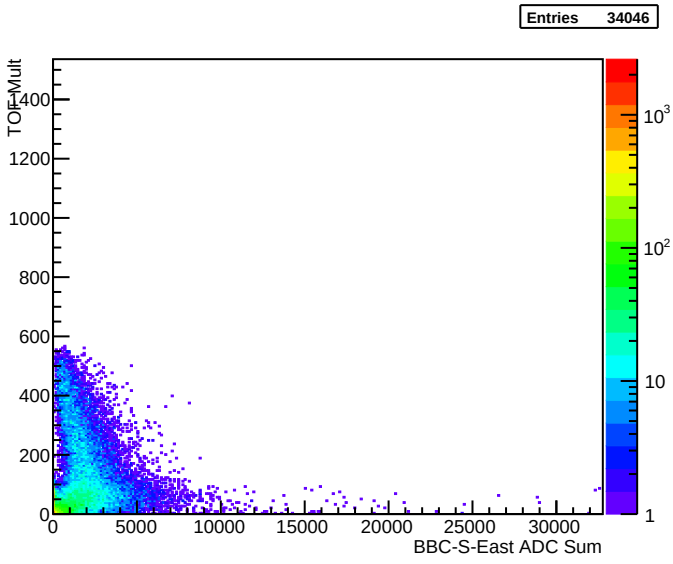

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

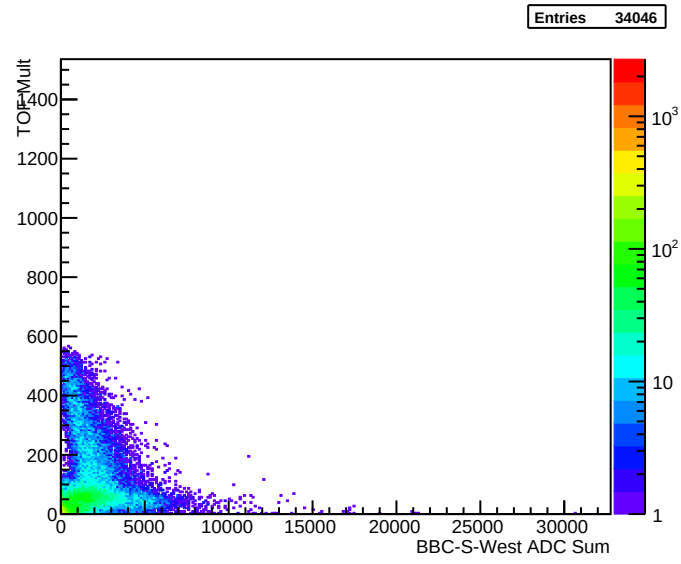

VT201 Input Ch4: VPD Tac Diff
Entries 34046
Tac

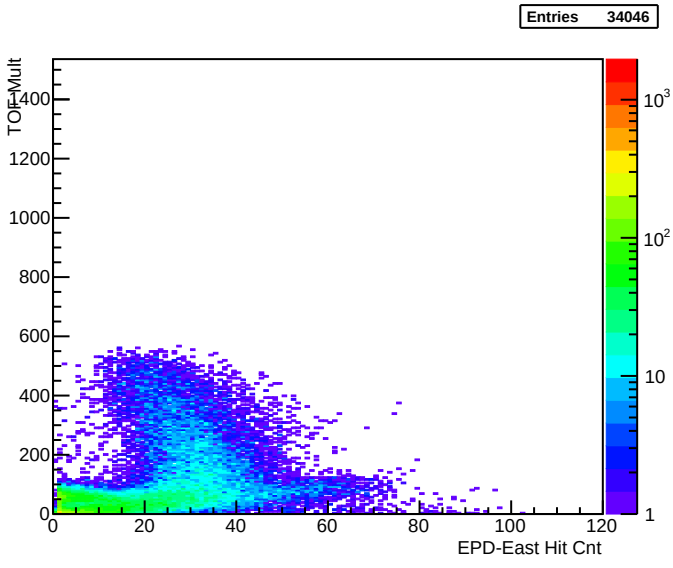

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

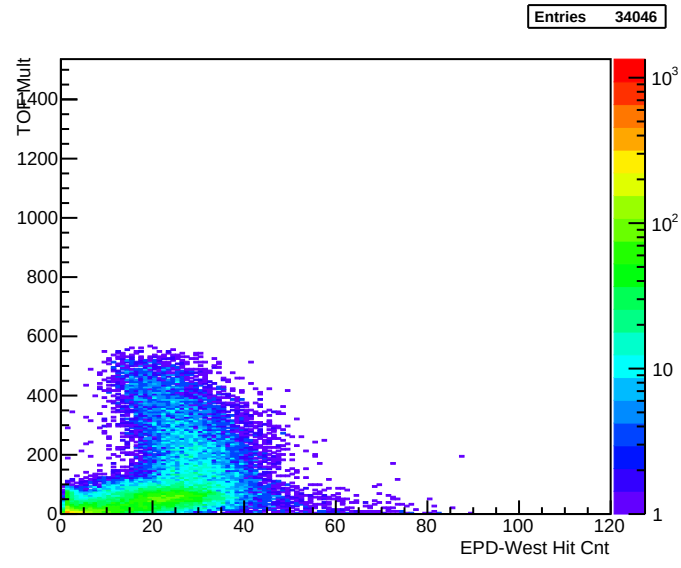

VT201 Input Ch4: VPD Adc Sum Th
Entries 68092
22986
27386
11060
6660
East
West

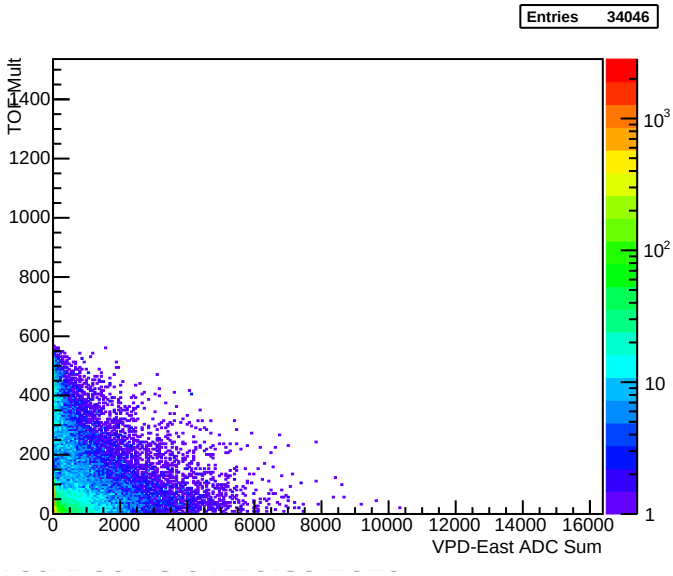

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

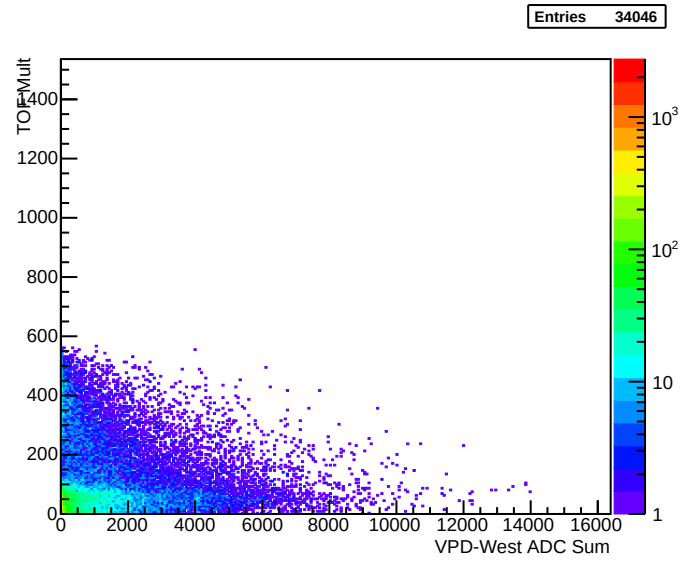

Entries 34046
TOF-Mult
BBC-S-East ADC Sum

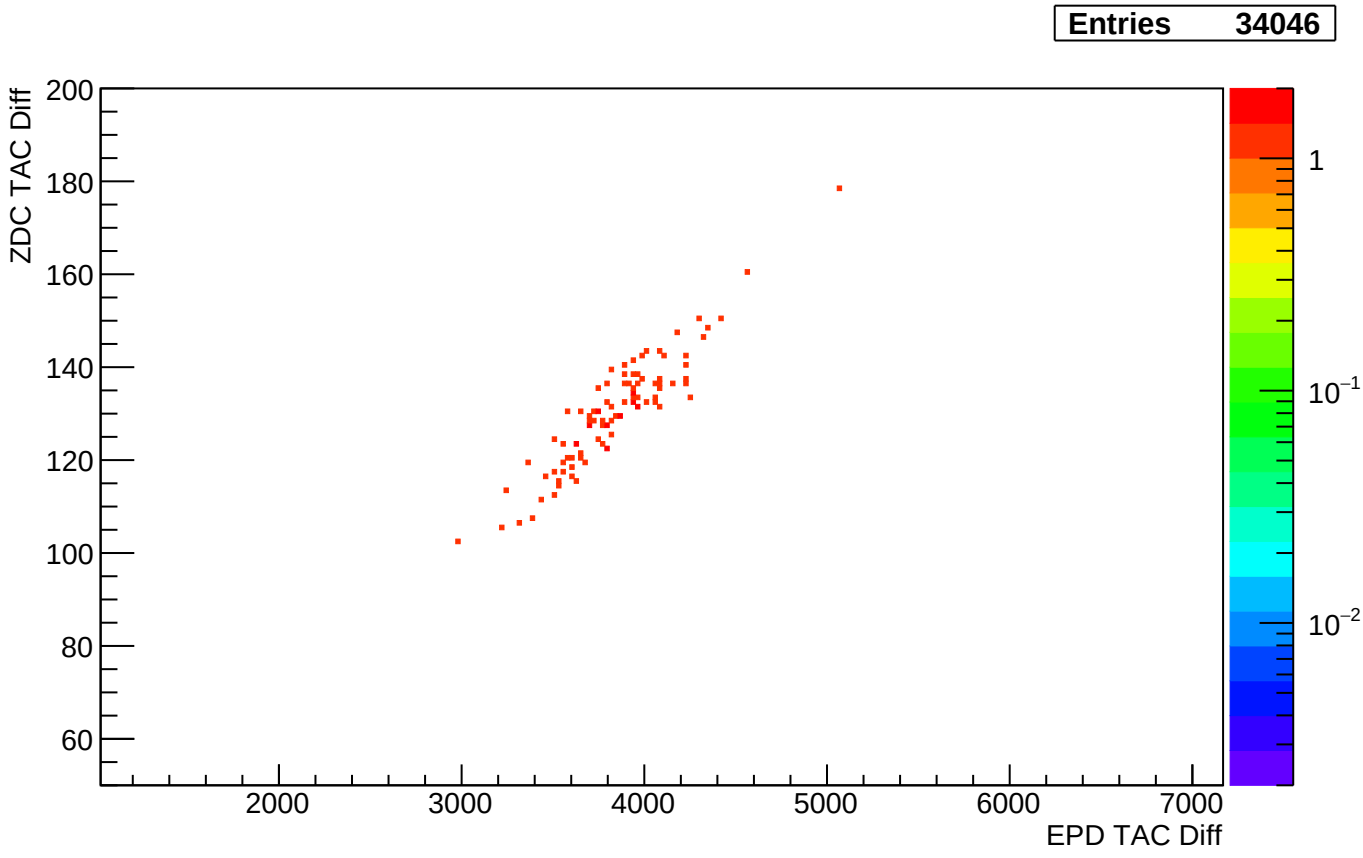

Entries 34046
TOF-Mult
BBC-S-West ADC Sum

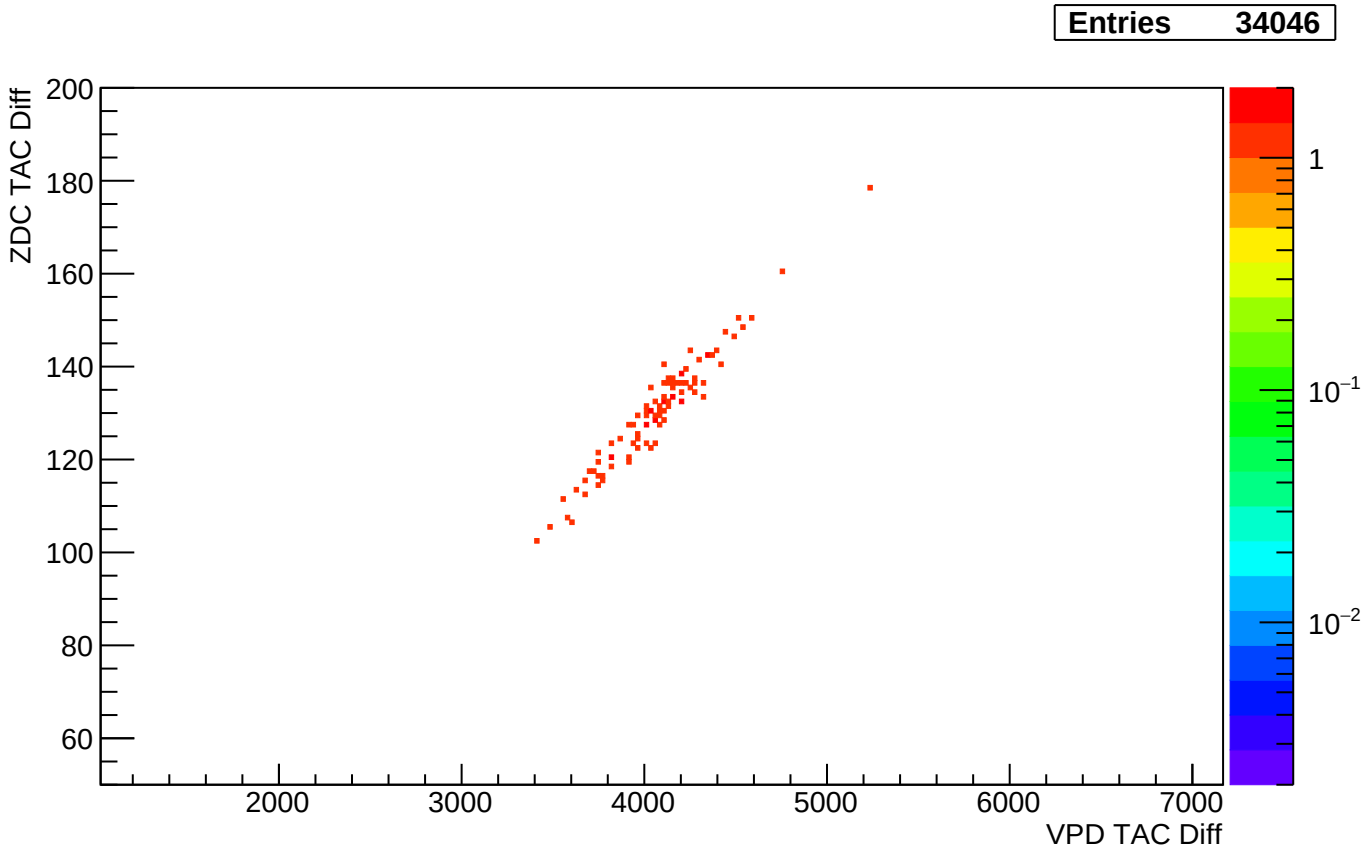

Entries 34046
TOF-Mult
EPD-East Hit Cnt

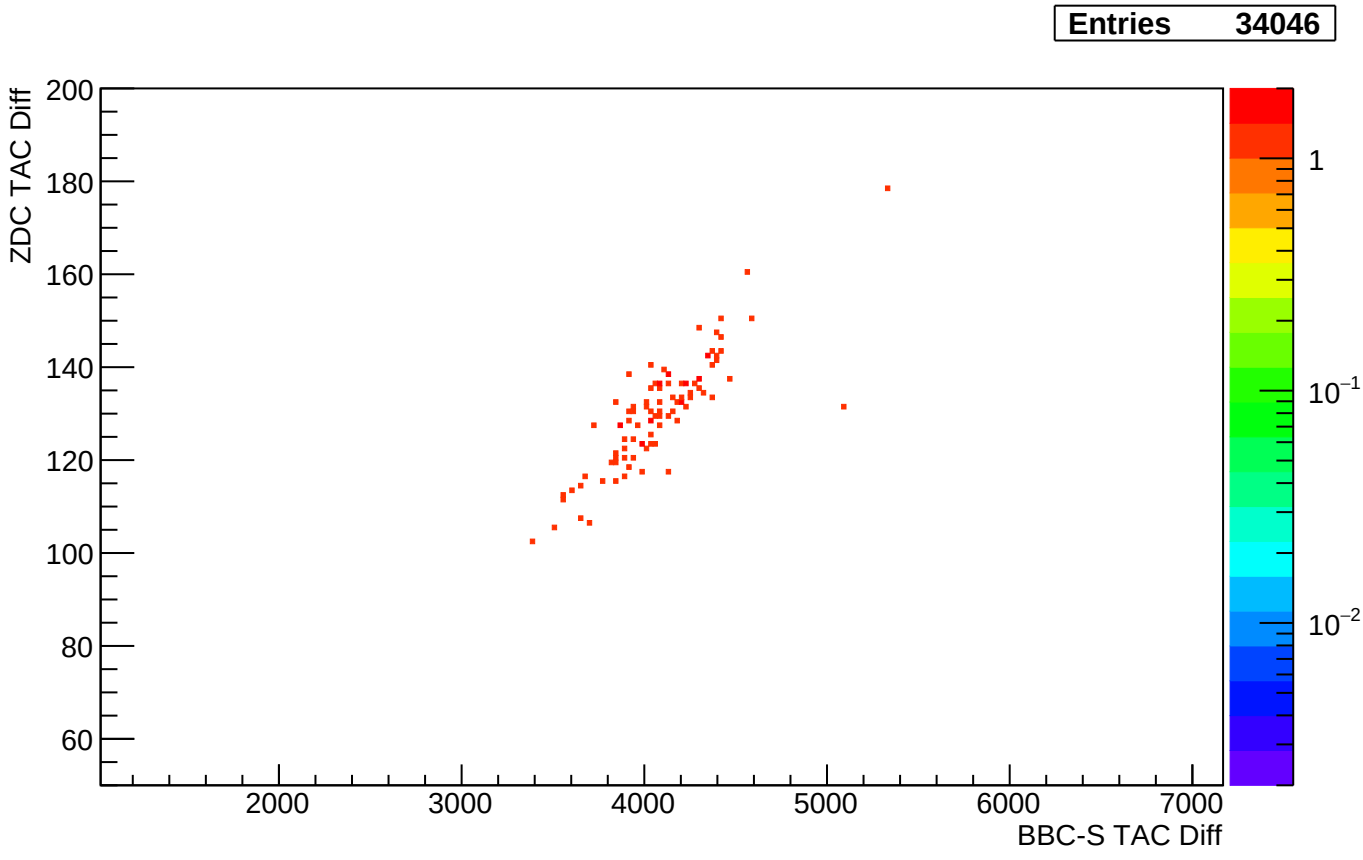

Entries 34046
TOF-Mult
EPD-West Hit Cnt

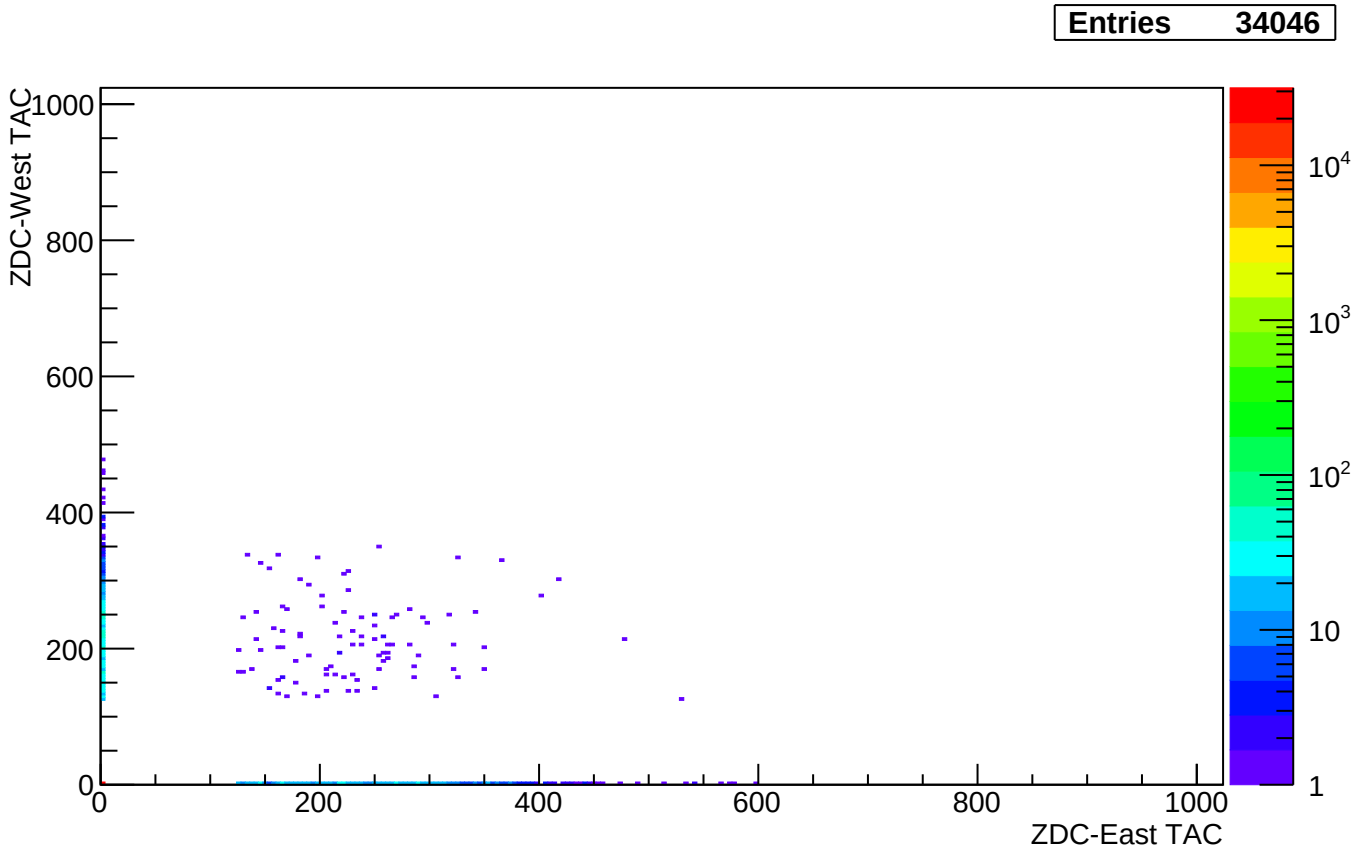

Entries 34046
TOF-Mult
VPD-East ADC Sum

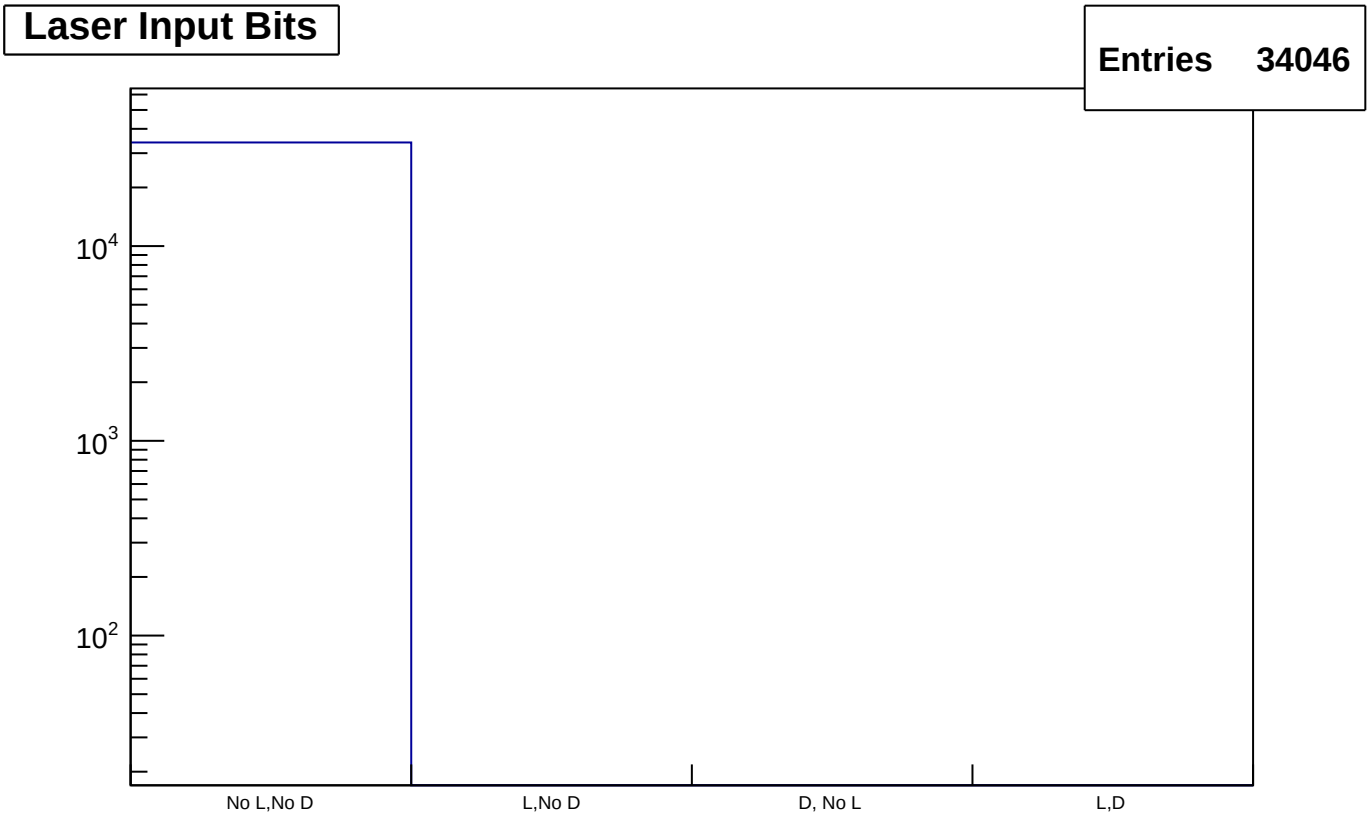

Entries 34046
TOF-Mult
VPD-West ADC Sum

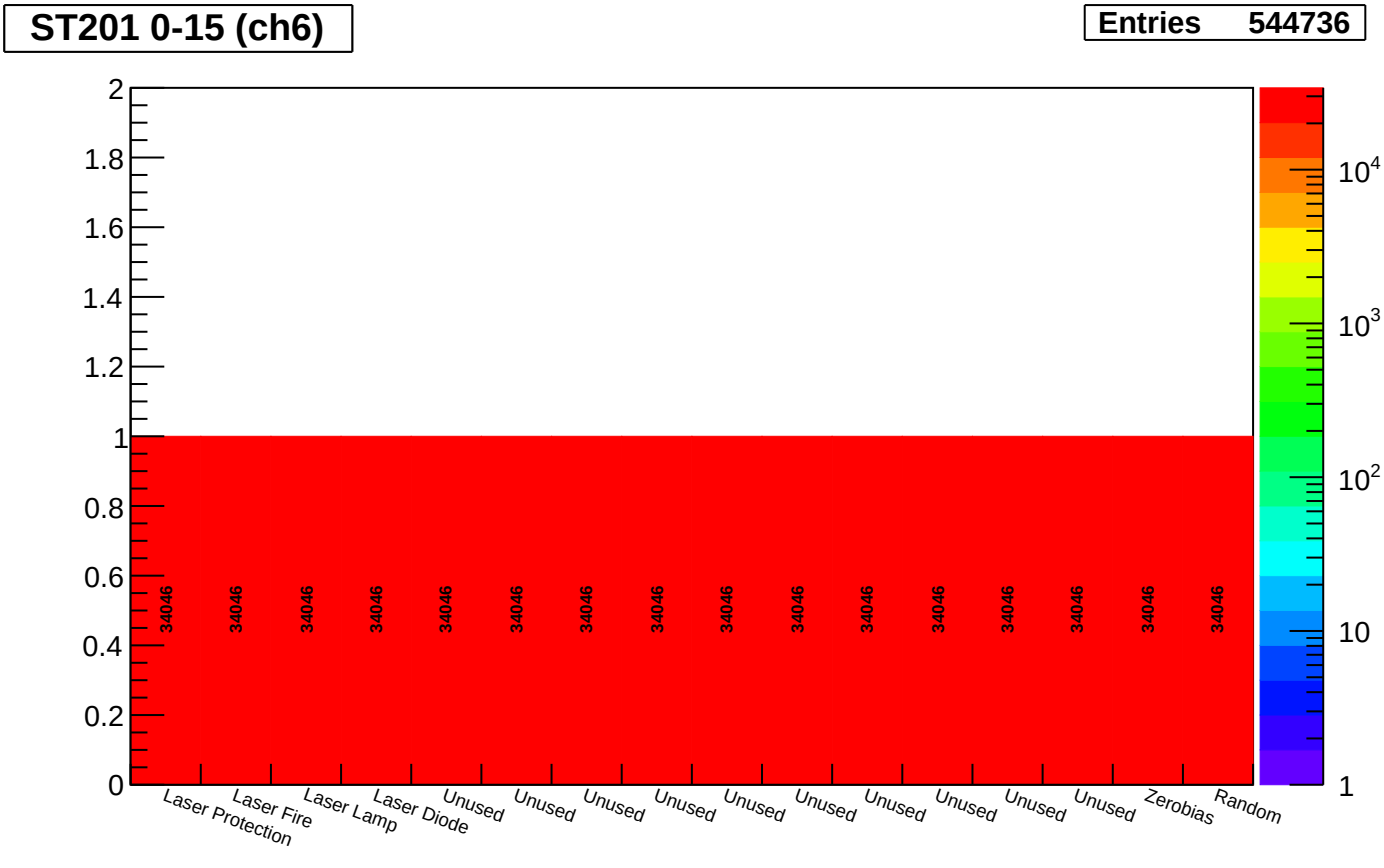

Entries 34046
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

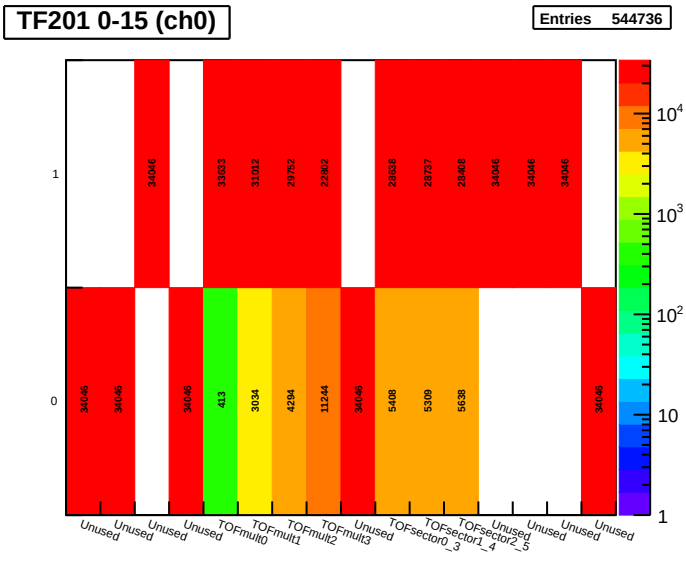

Entries 34046
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

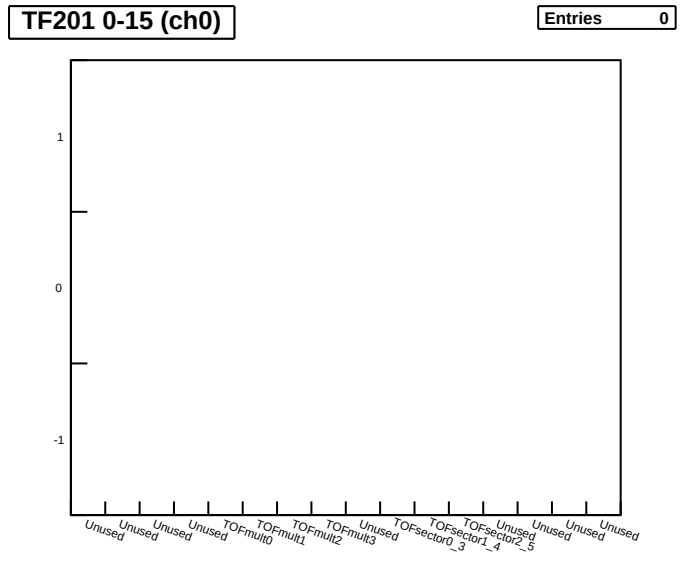

Entries 34046
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

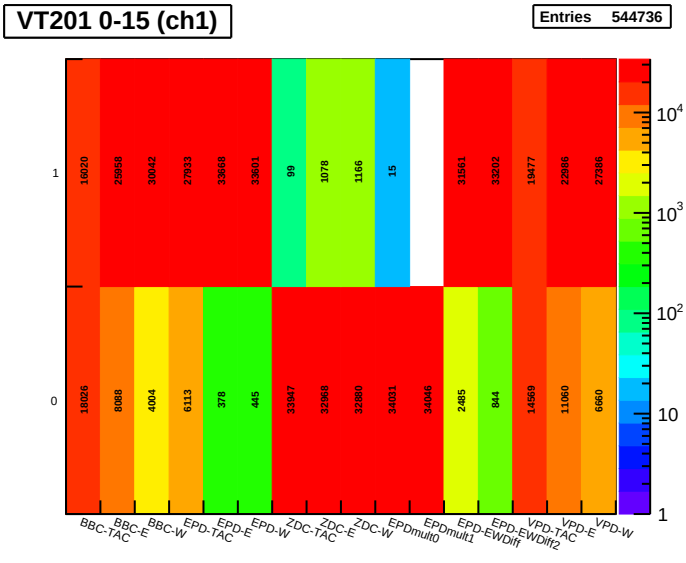

Entries 34046
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

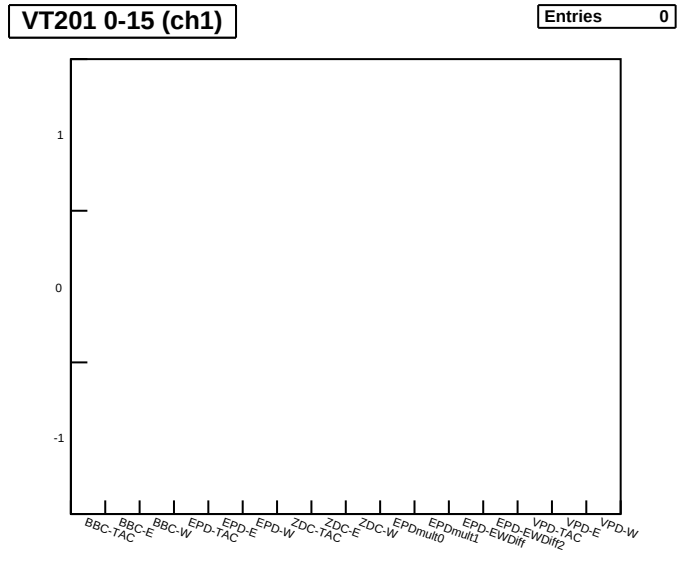

Laser Input Bits
Entries 34046
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

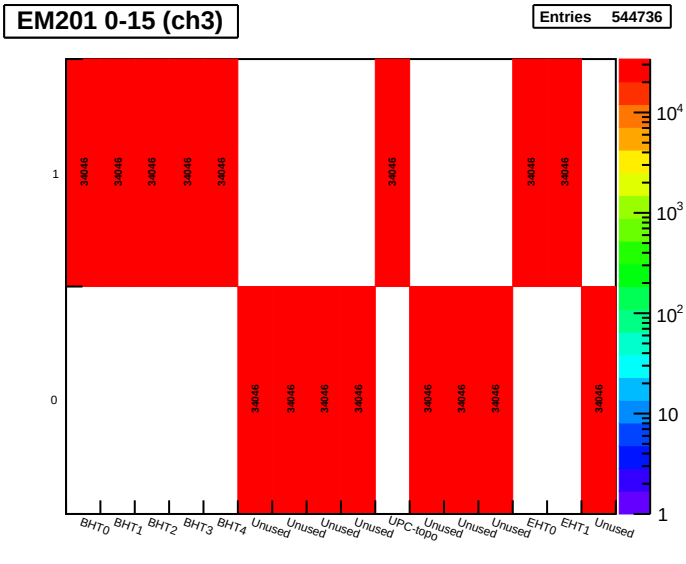

ST201 0-15 (ch6)
Entries 544736
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
34046
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

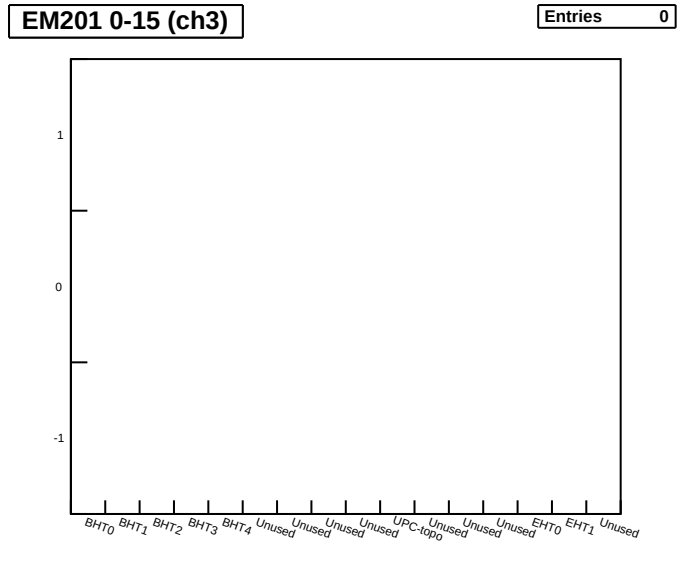

TF201 0-15 (ch0)
Entries 544736
1
0
34046 33633 31012 29752 22802 28638 28737 28408 34046 34046 34046
34046 34046 34046 413 3034 4294 11244 34046 5408 5309 5638 34046
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
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


VT201 0-15 (ch1)
Entries 544736
1
0
16020 25958 30042 27933 33668 33601 99 1078 1166 15 31561 32202 19477 22986 27386
18026 8088 4004 6113 378 445 33947 32968 32880 34031 34046 2485 844 14569 11060 6660
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
10^4
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 544736
1
0
34046 34046 34046 34046 34046 34046 34046 34046
34046 34046 34046 34046 34046 34046 34046 34046
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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