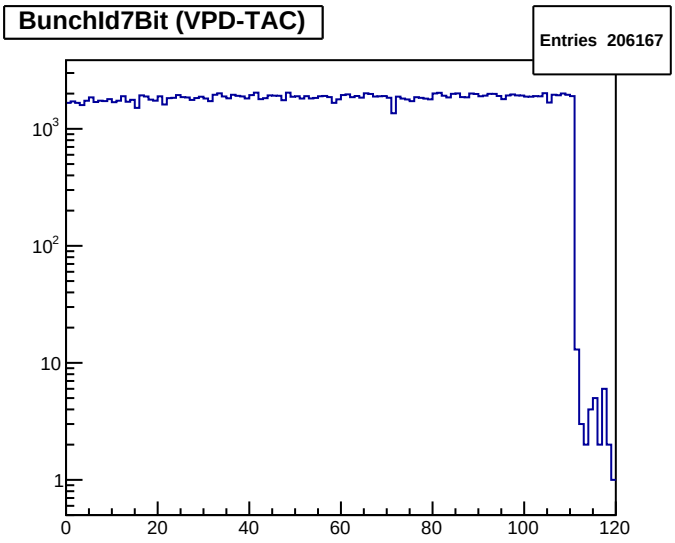
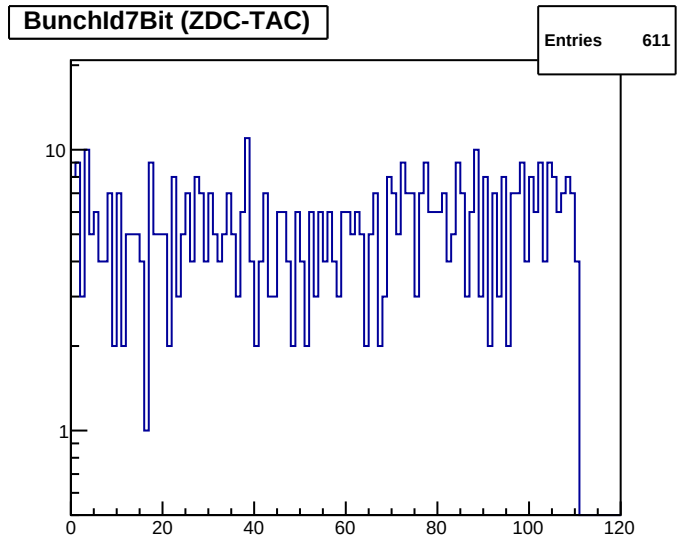
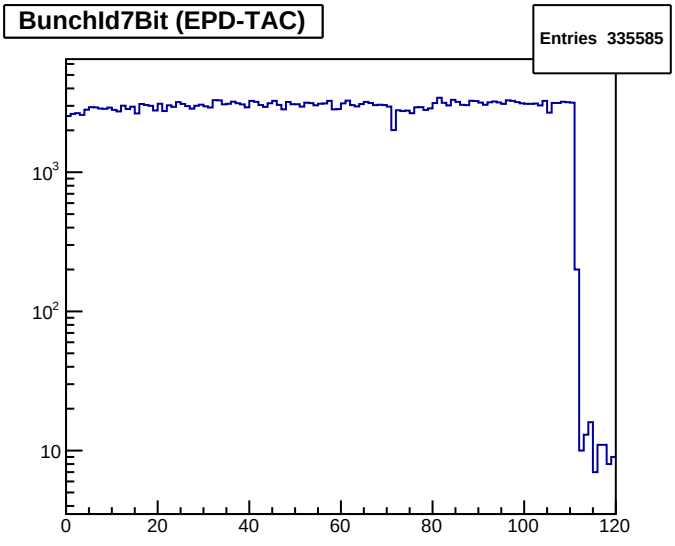
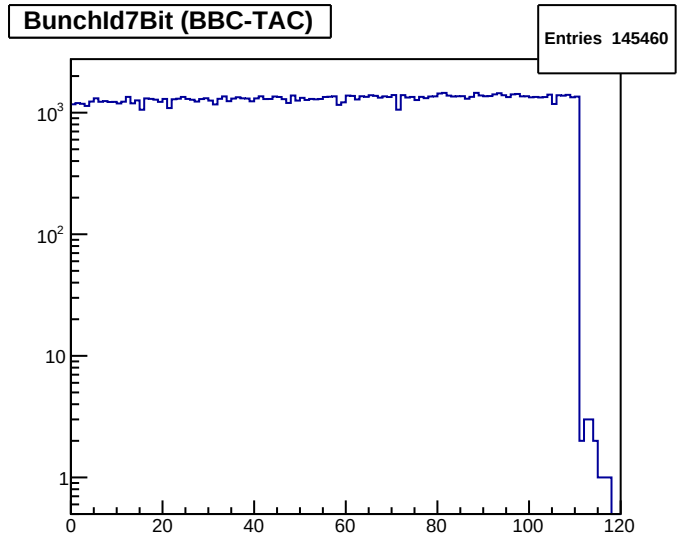
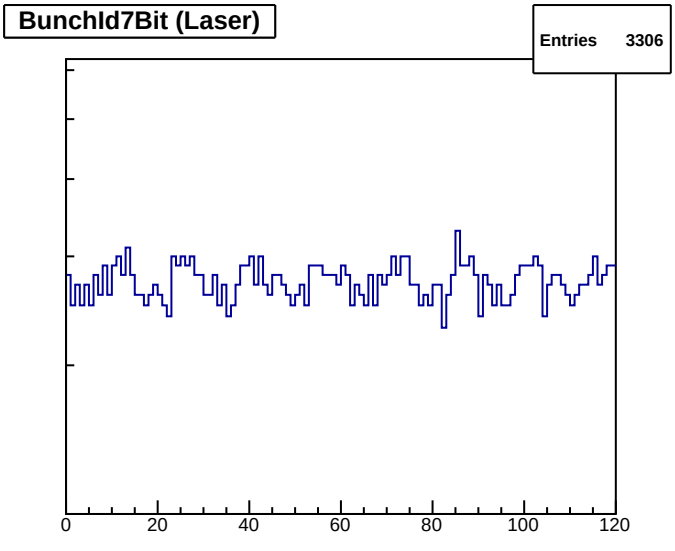
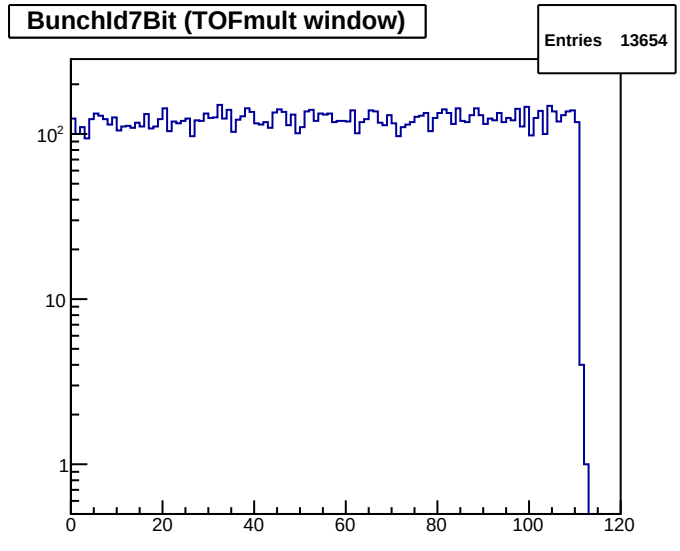

BunchId7Bit (VPD-TAC)
Entries 206167
10^3
10^2
10
1
0
20
40
60
80
100
120

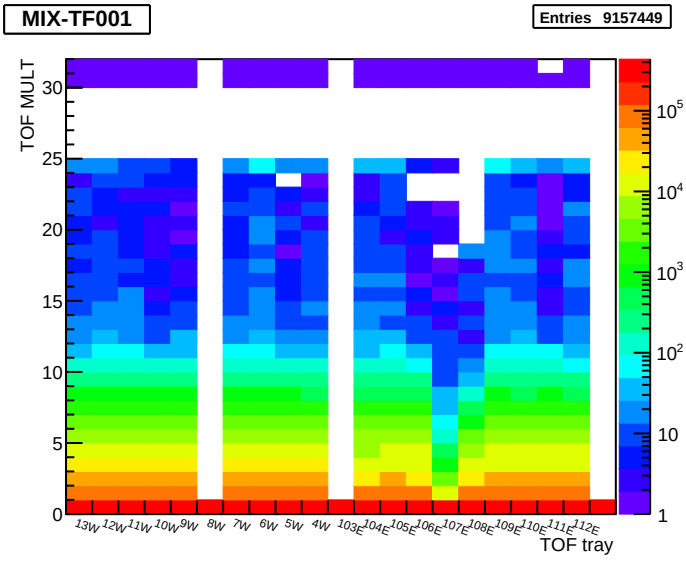

BunchId7Bit (ZDC-TAC)
Entries 611
10
1
0
20
40
60
80
100
120

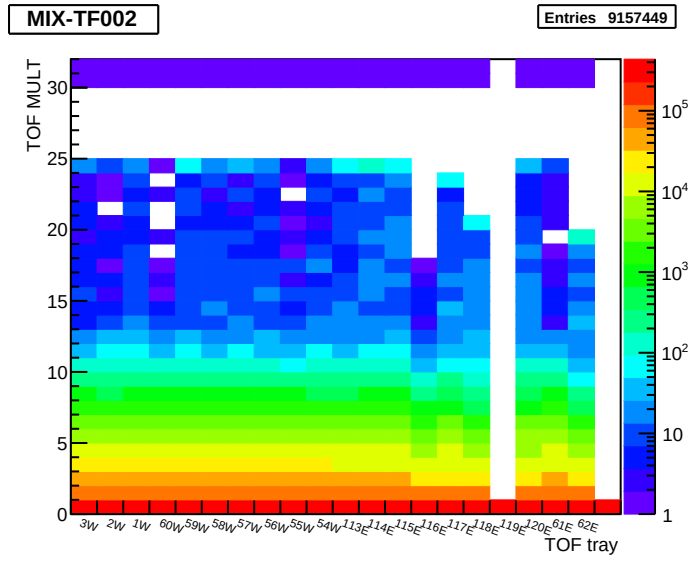

BunchId7Bit (EPD-TAC)
Entries 335585
10^3
10^2
10
0
20
40
60
80
100
120

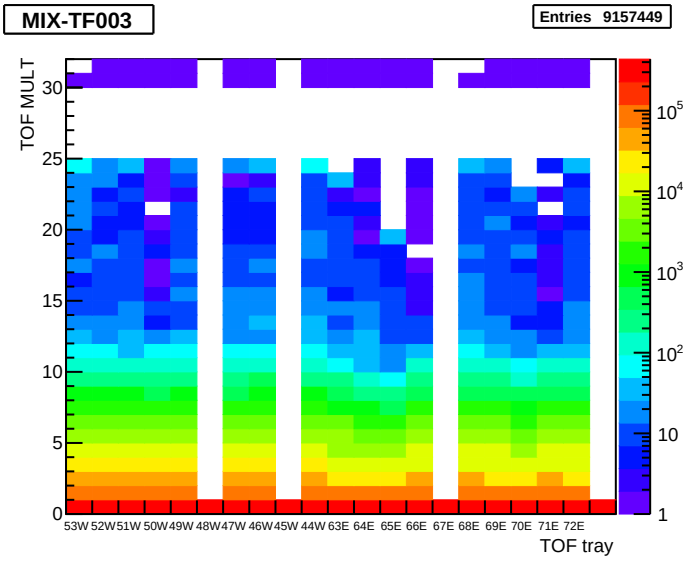

BunchId7Bit (BBC-TAC)
Entries 145460
10^3
10^2
10
1
0
20
40
60
80
100
120

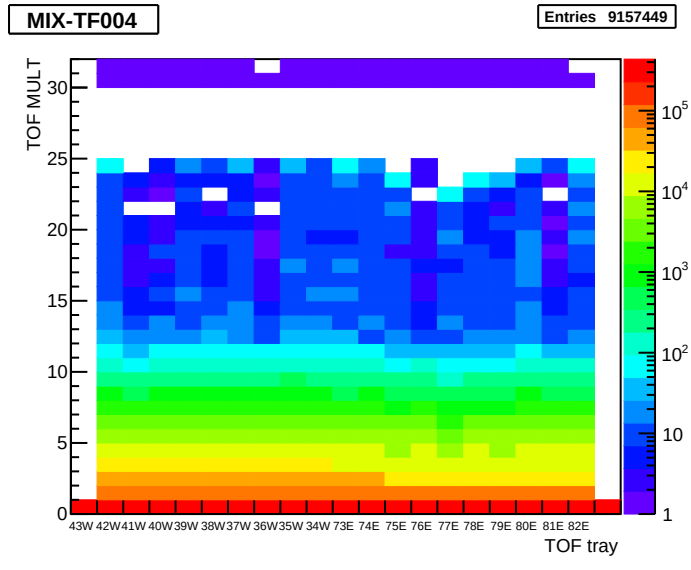

BunchId7Bit (Laser)
Entries 3306
0
20
40
60
80
100
120

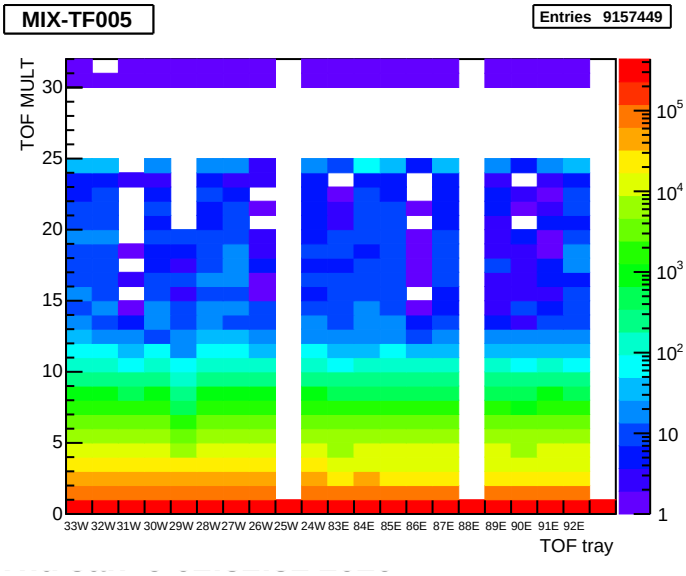

BunchId7Bit (TOFmult window)
Entries 13654
10^2
10
1
0
20
40
60
80
100
120

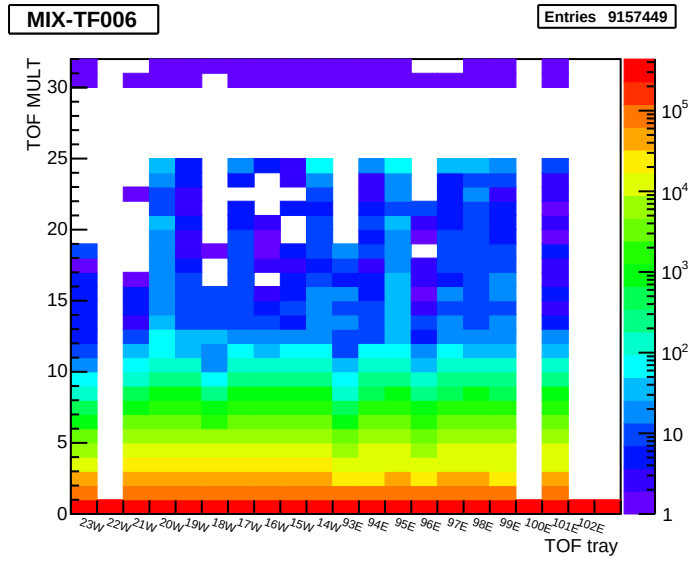

MIX-TF001
Entries 9157449
TOF MULT
TOF tray

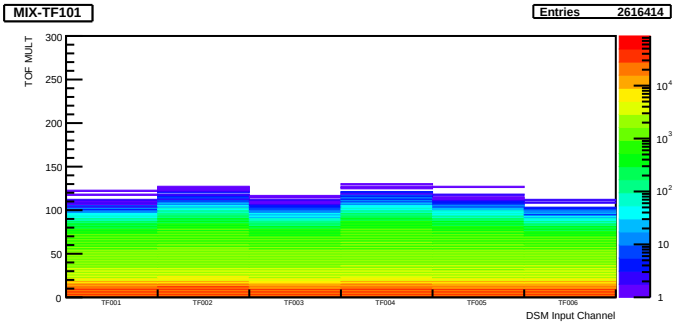

MIX-TF002
Entries 9157449
TOF MULT
TOF tray

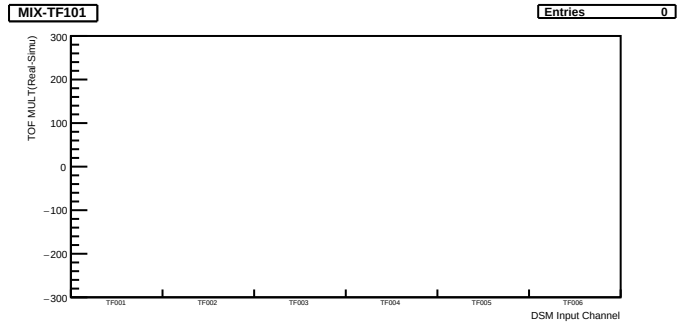

MIX-TF003
Entries 9157449
TOF MULT
TOF tray

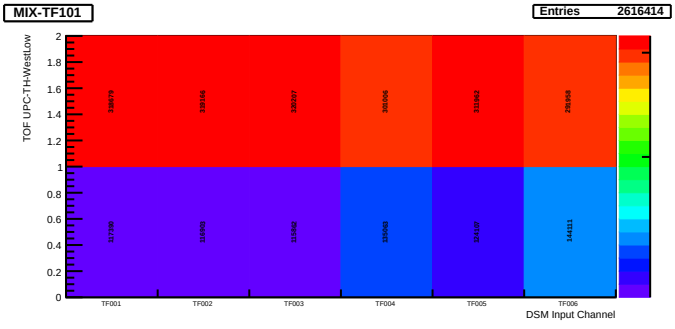

MIX-TF004
Entries 9157449
TOF MULT
TOF tray

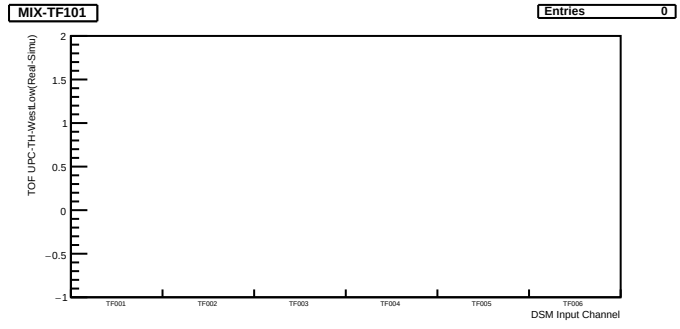

MIX-TF005
Entries 9157449
TOF MULT
TOF tray

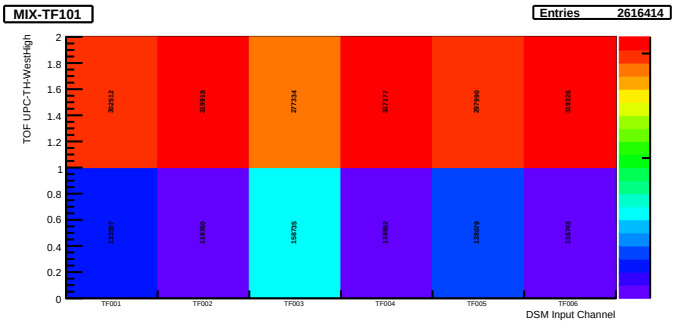

MIX-TF006
Entries 9157449
TOF MULT
TOF tray

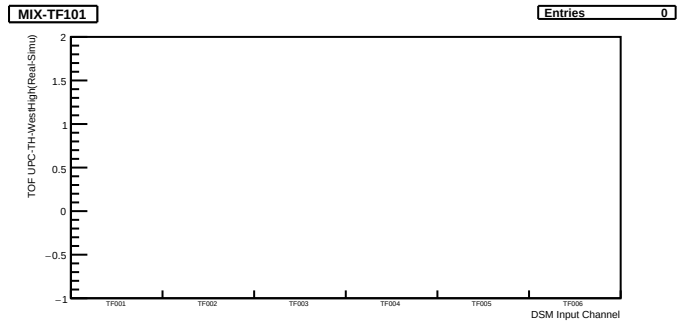

MIX-TF101
Entries 2616414
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

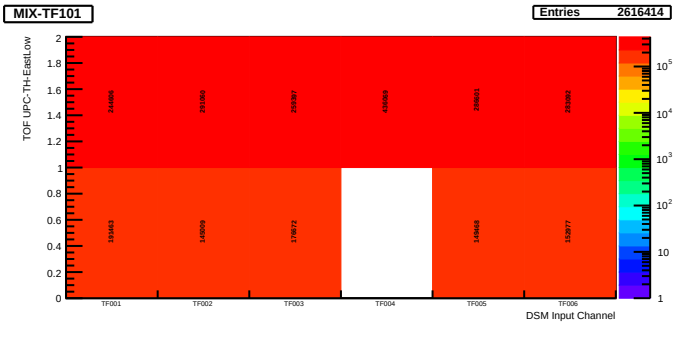

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

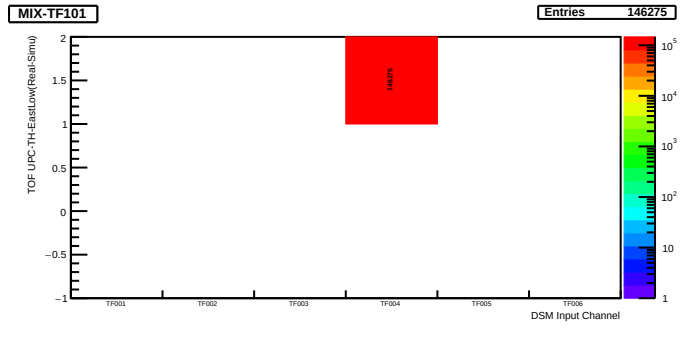

MIX-TF101
Entries 2616414
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

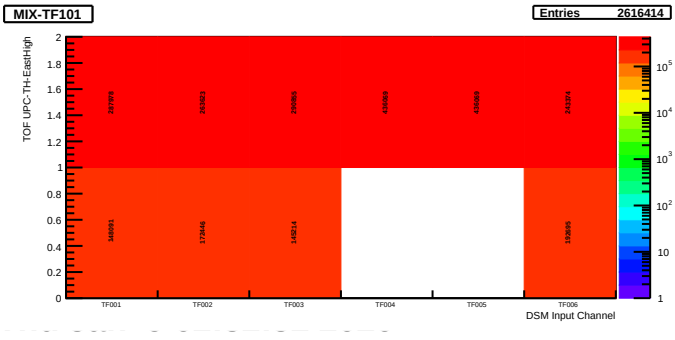

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

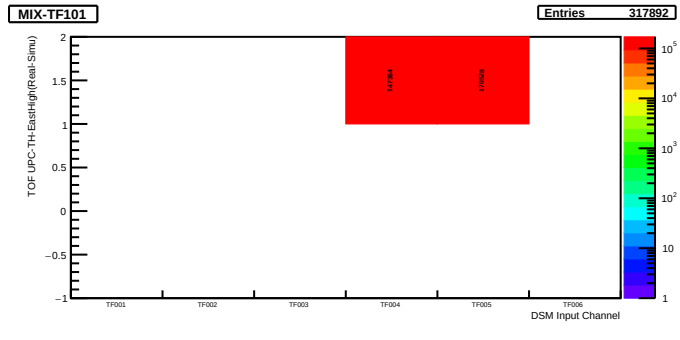

MIX-TF101
Entries 2616414
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

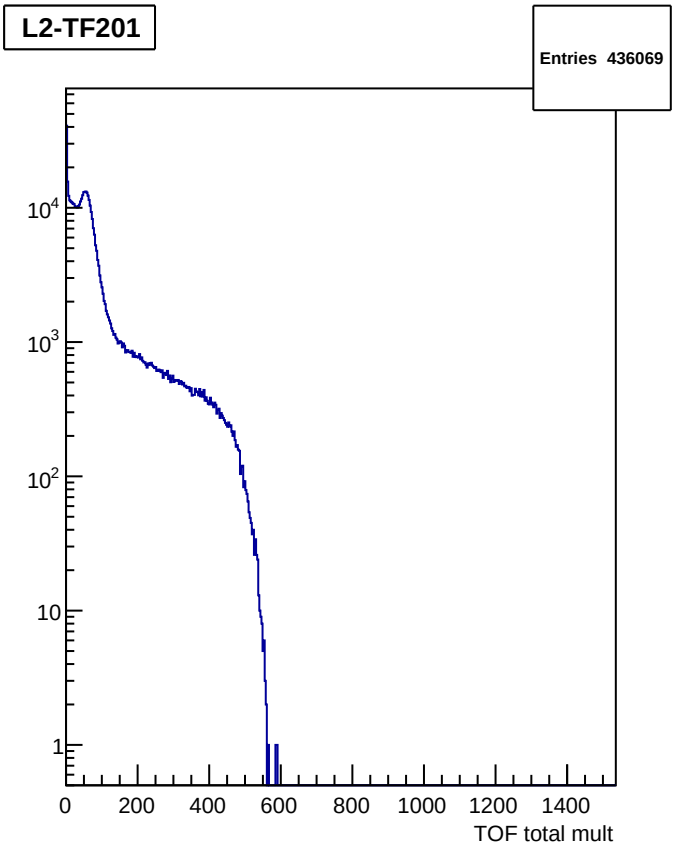

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

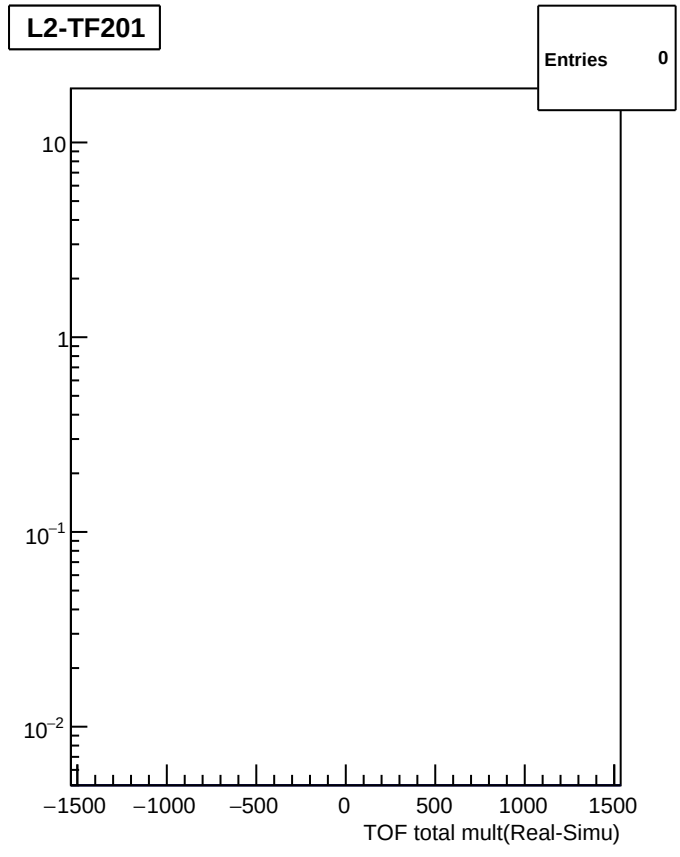

MIX-TF101
Entries 2616414
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

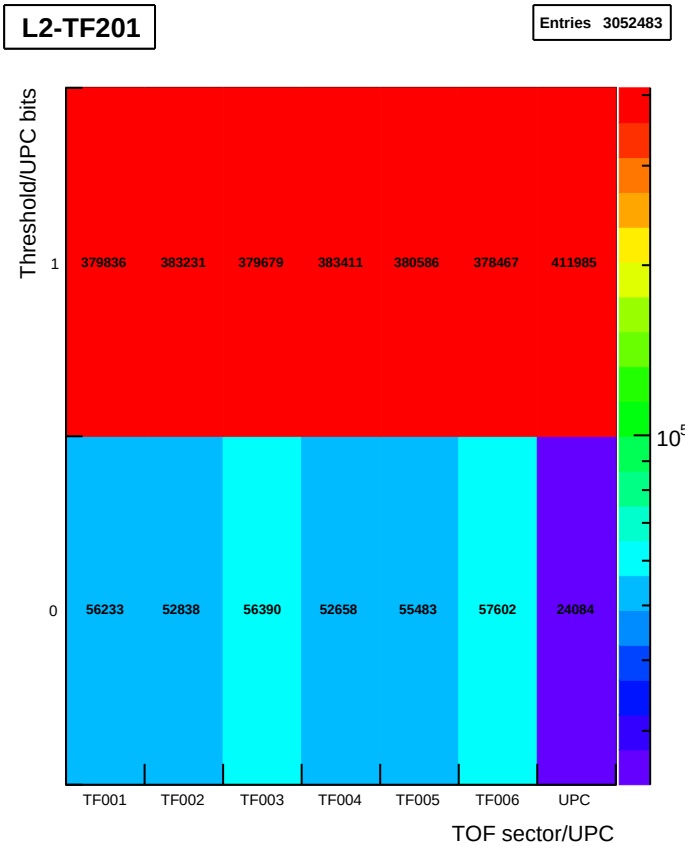

MIX-TF101
Entries 146275
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

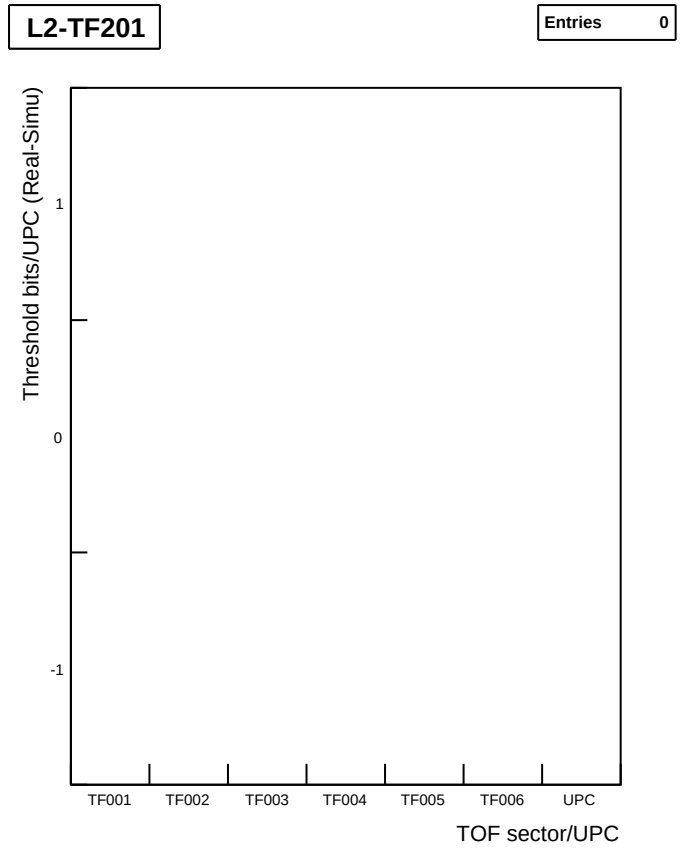

MIX-TF101
Entries 2616414
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

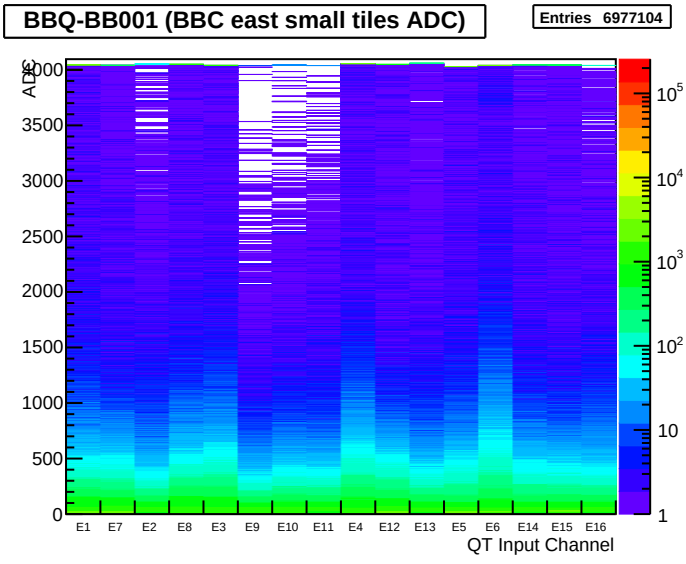

MIX-TF101
Entries 317892
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

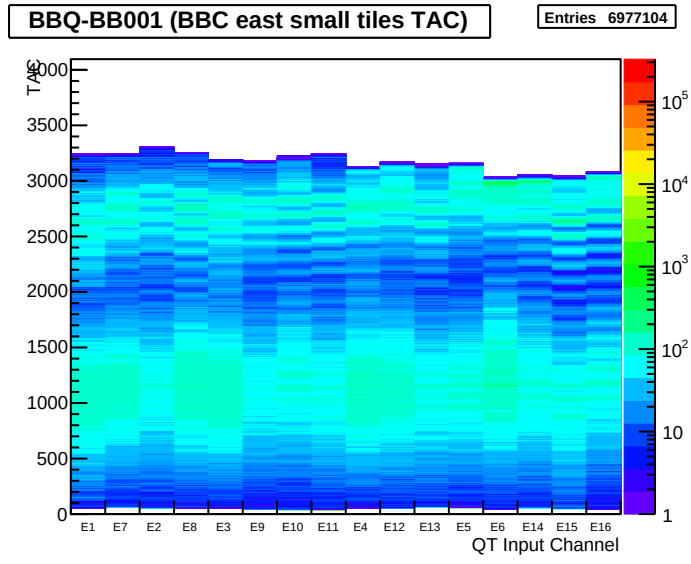

L2-TF201
Entries 436069
TOF total mult

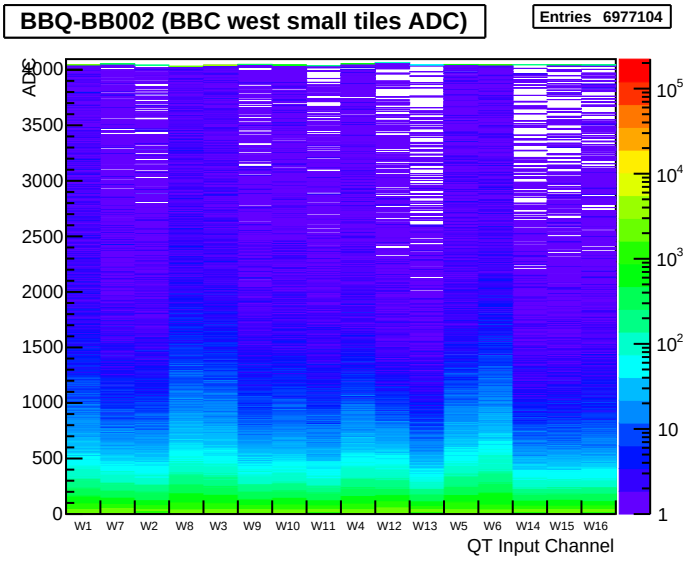

L2-TF201
Entries 0
TOF total mult(Real-Simu)

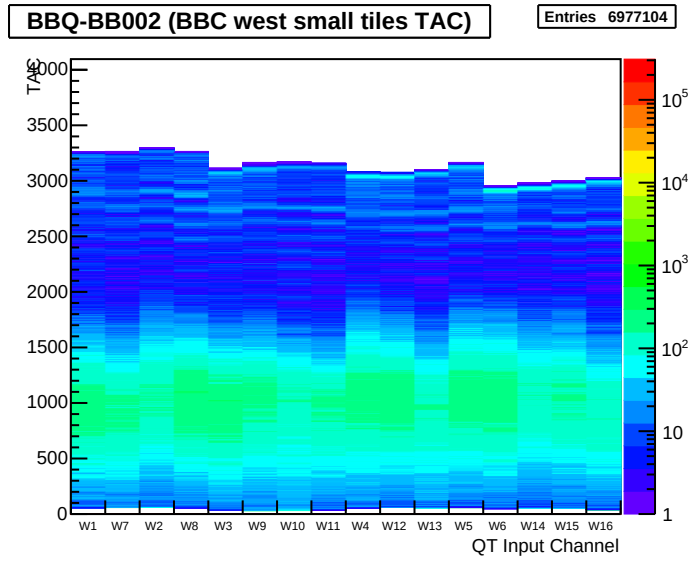

L2-TF201
Entries 3052483
Threshold/UPC bits
379836
383231
379679
383411
380586
378467
411985
56233
52838
56390
52658
55483
57602
24084
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

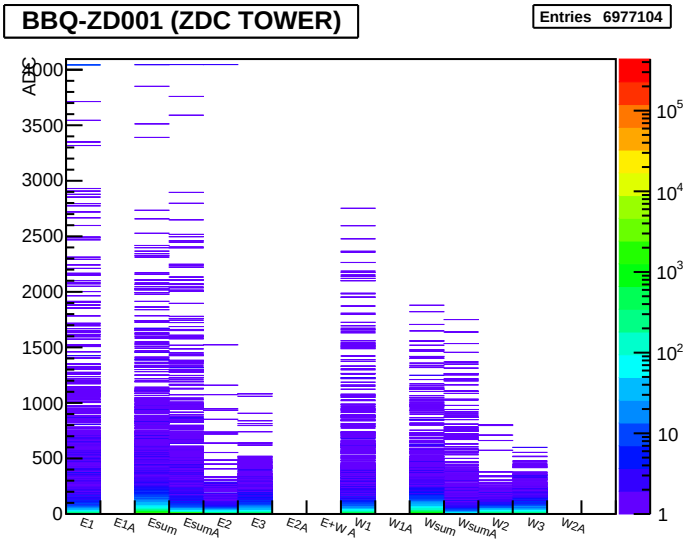

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

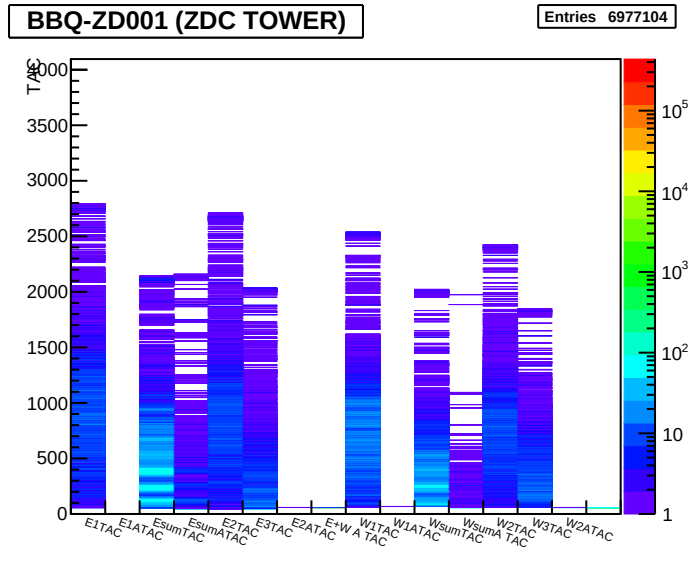

BBQ-BB001 (BBC east small tiles ADC)
Entries 6977104
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

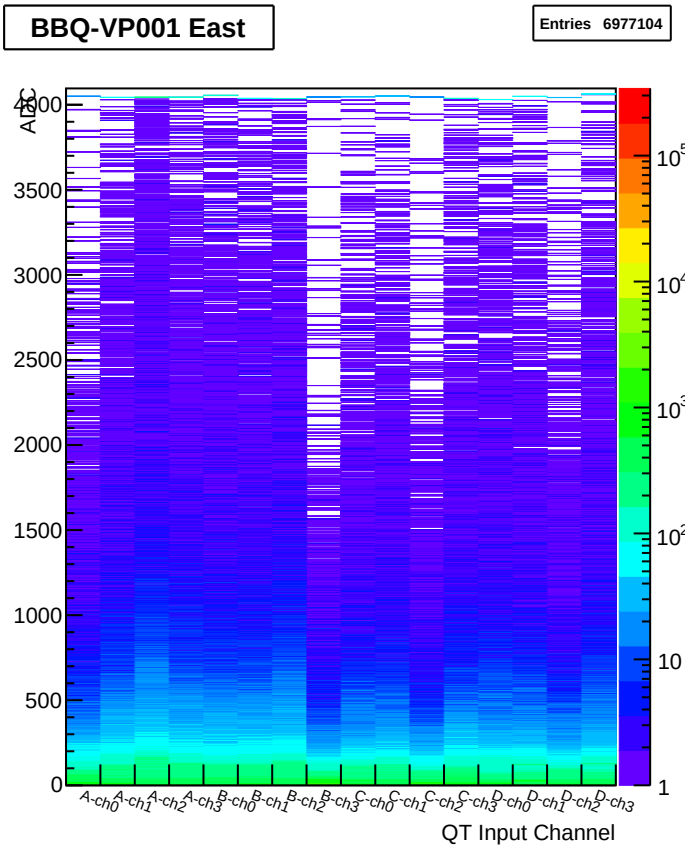

BBQ-BB001 (BBC east small tiles TAC)
Entries 6977104
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

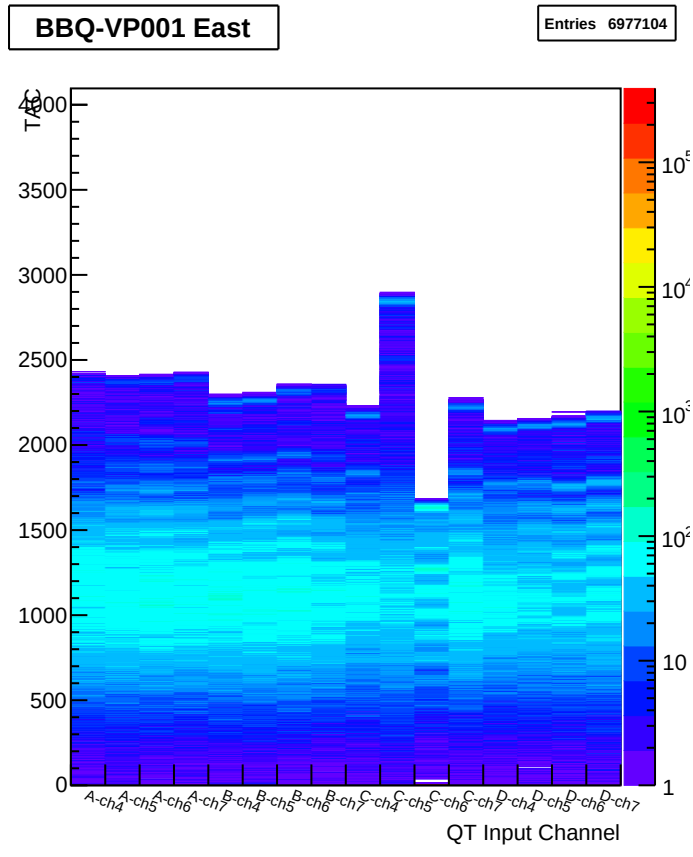

BBQ-BB002 (BBC west small tiles ADC)
Entries 6977104
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

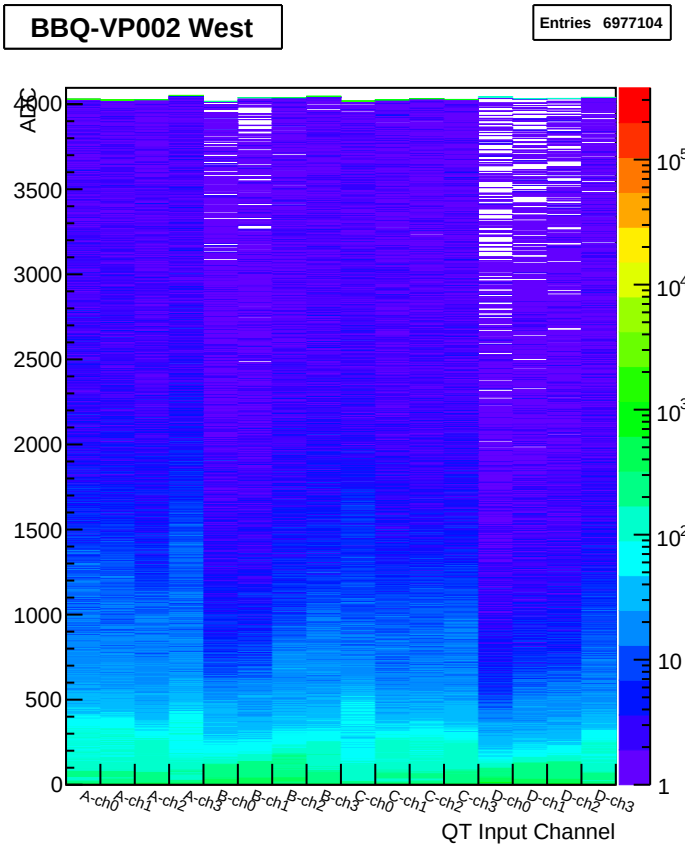

BBQ-BB002 (BBC west small tiles TAC)
Entries 6977104
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

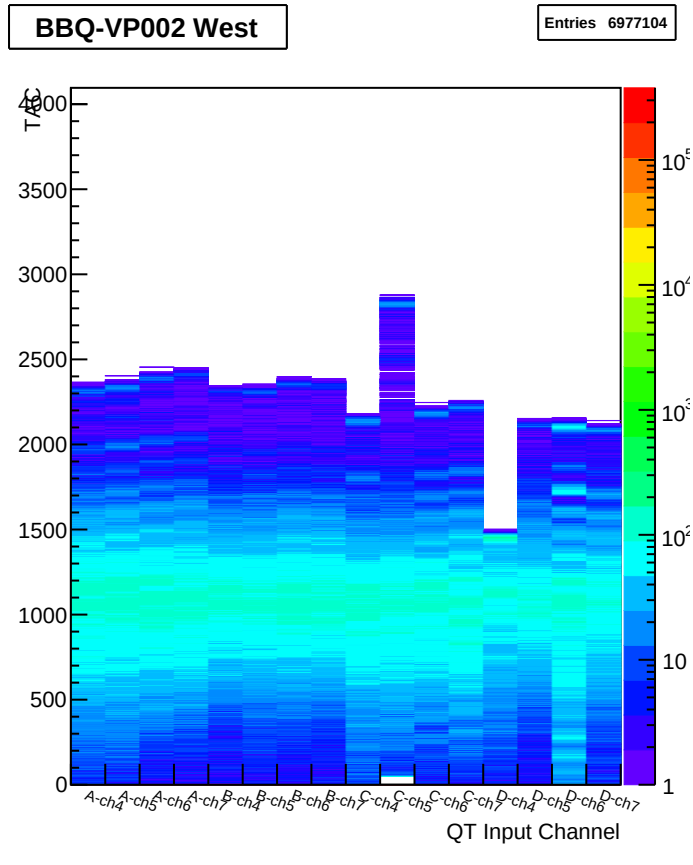

BBQ-ZD001 (ZDC TOWER)
Entries 6977104
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

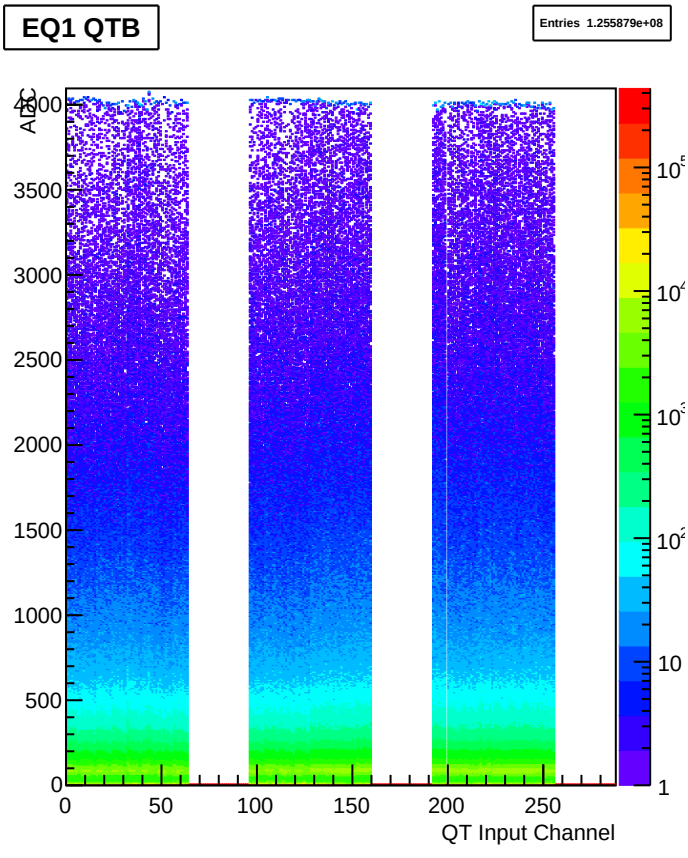

BBQ-ZD001 (ZDC TOWER)
Entries 6977104
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

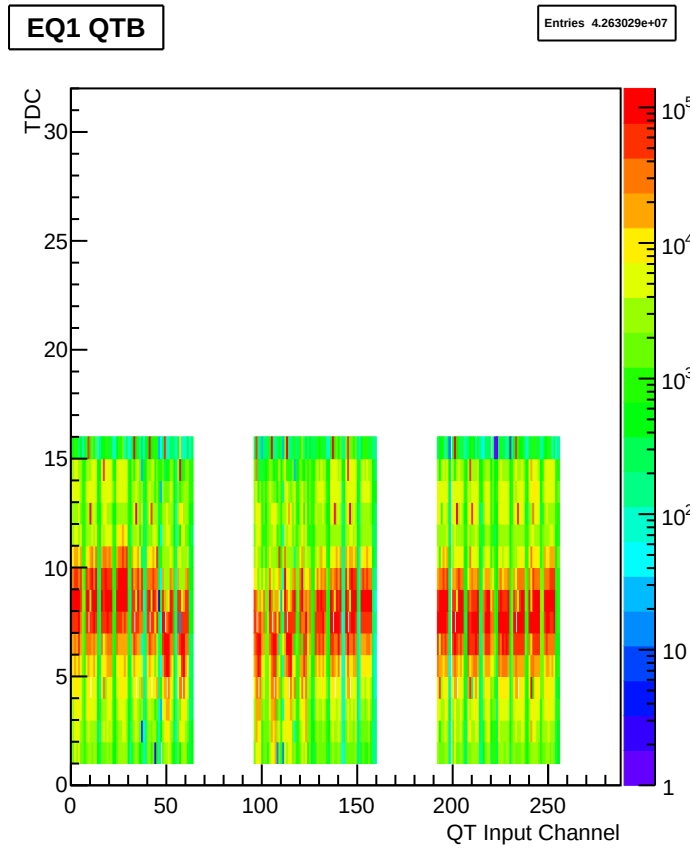

BBQ-VP001 East
Entries 6977104
ADC
QT Input Channel

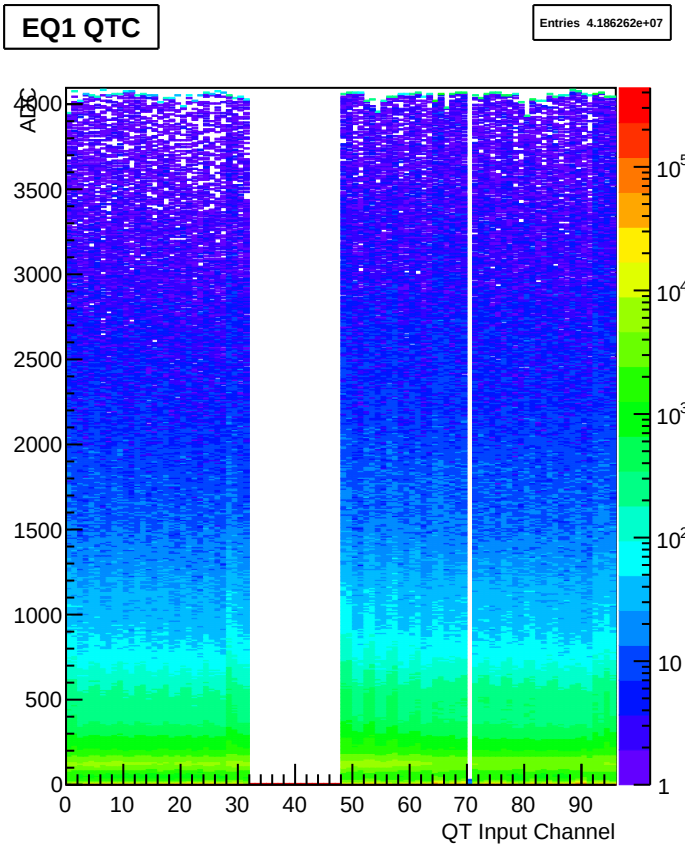

BBQ-VP001 East
Entries 6977104
ADC
QT Input Channel

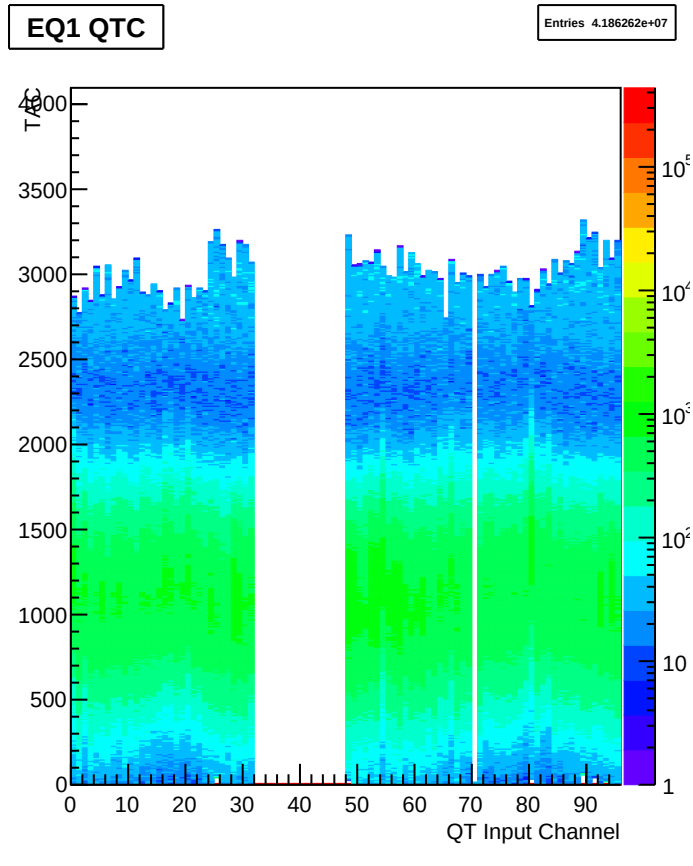

BBQ-VP002 West
Entries 6977104
ADC
QT Input Channel

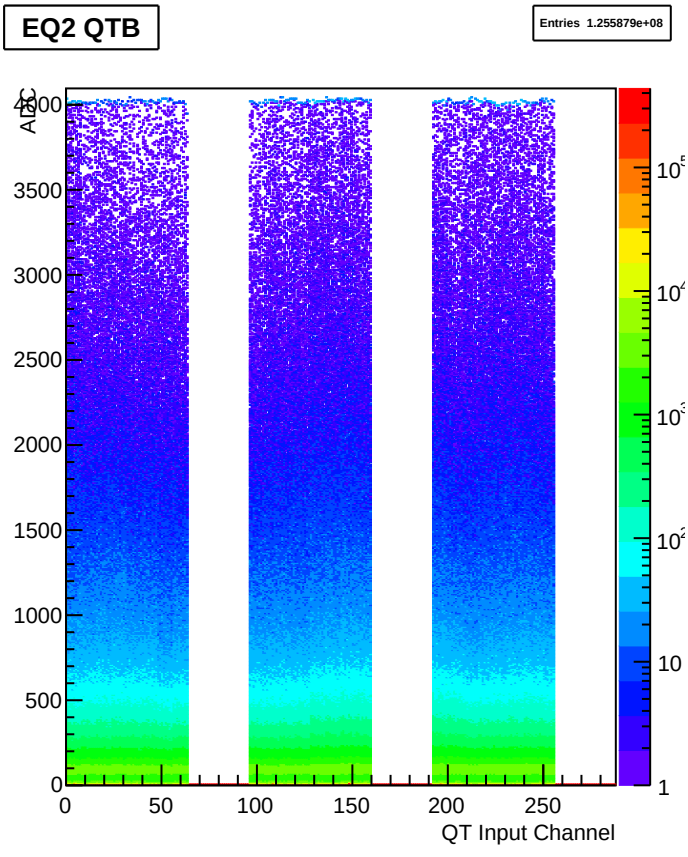

BBQ-VP002 West
Entries 6977104
ADC
QT Input Channel

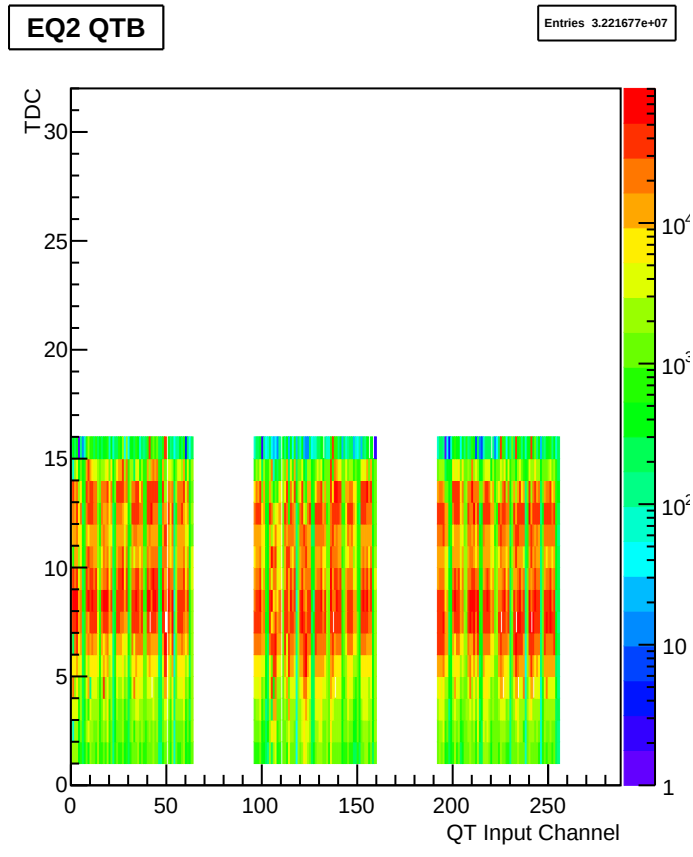

EQ1 QTB
Entries 1.255879e+08
ADC
QT Input Channel

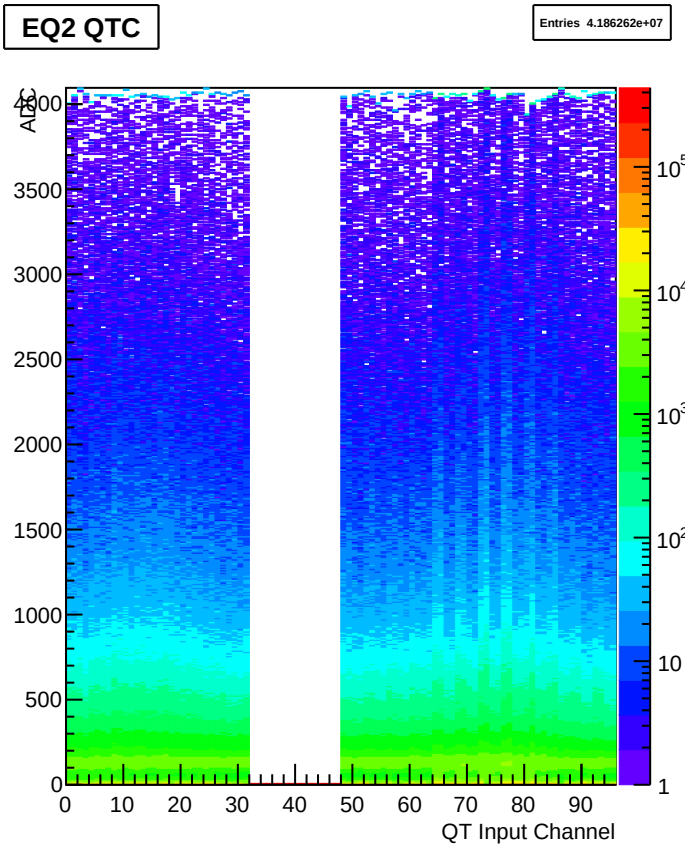

EQ1 QTB
Entries 4.263029e+07
TDC
QT Input Channel

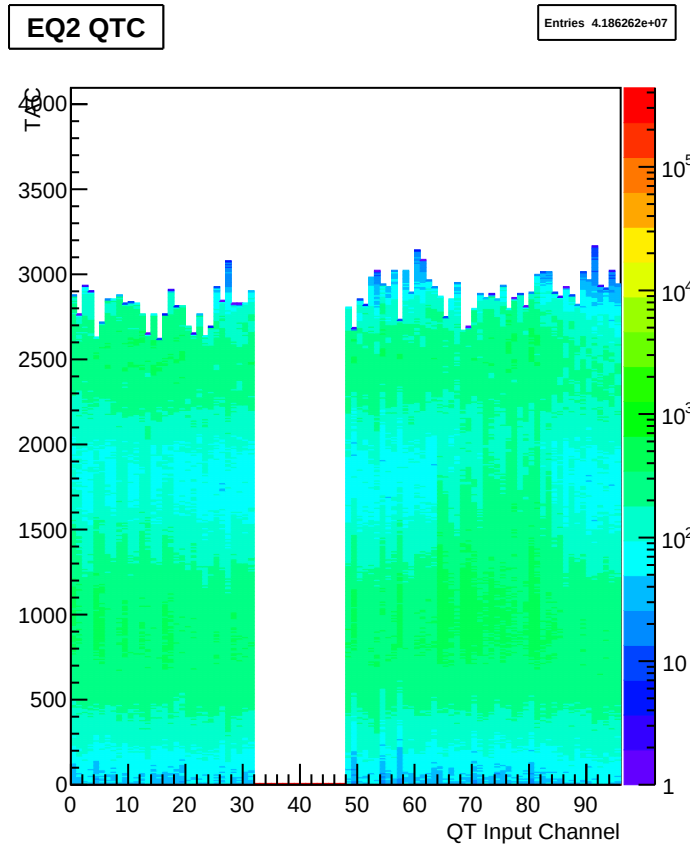

EQ1 QTC
Entries 4.186262e+07
ADC
QT Input Channel

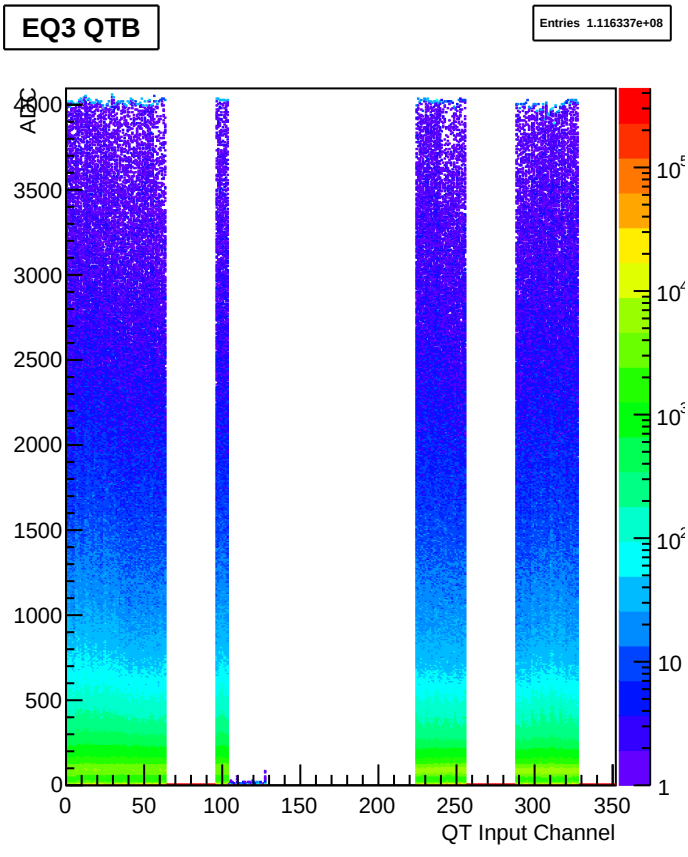

EQ1 QTC
Entries 4.186262e+07
TADC
QT Input Channel

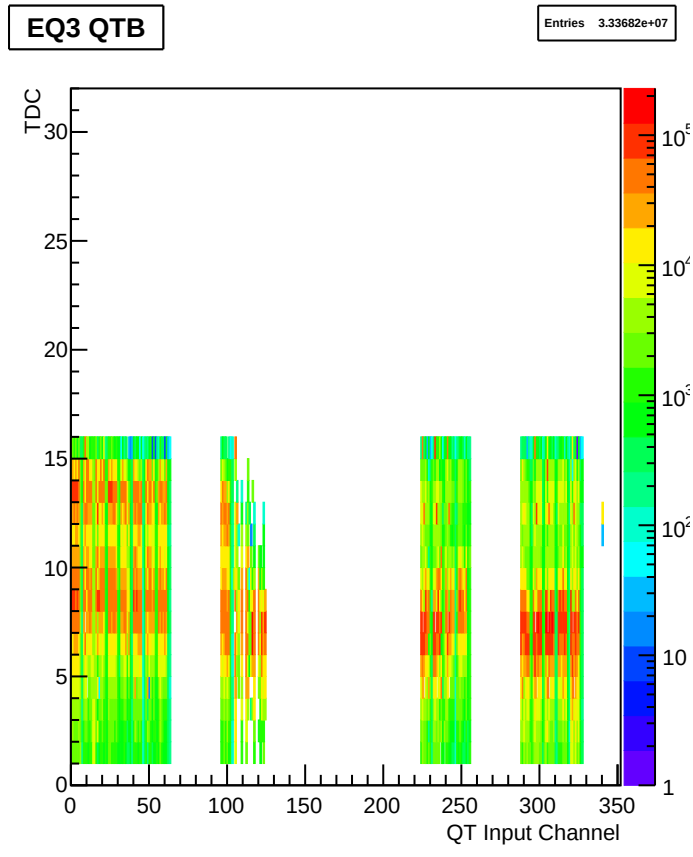

EQ2 QTB
Entries 1.255879e+08
ADC
QT Input Channel

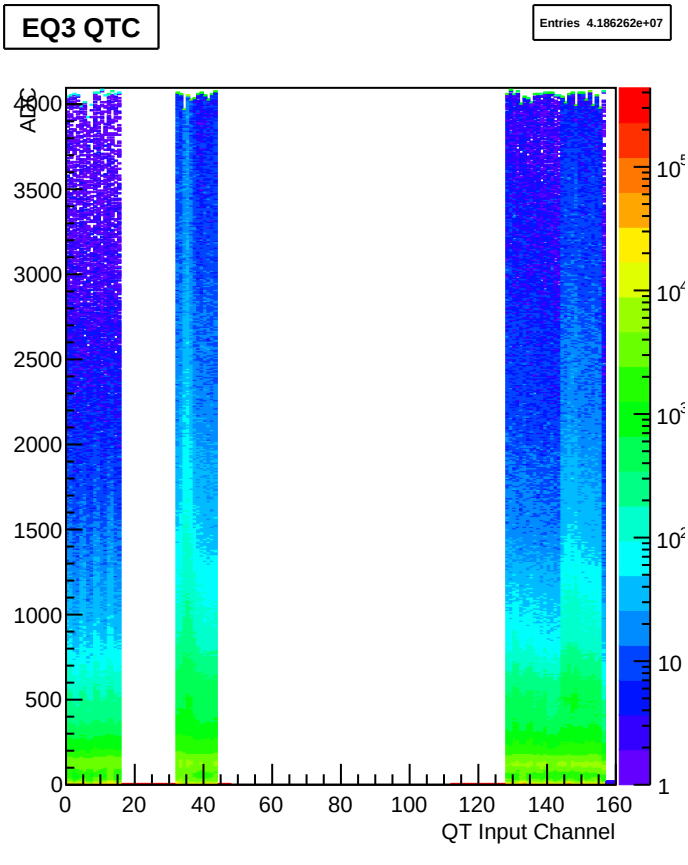

EQ2 QTB
Entries 3.221677e+07
TDC
QT Input Channel

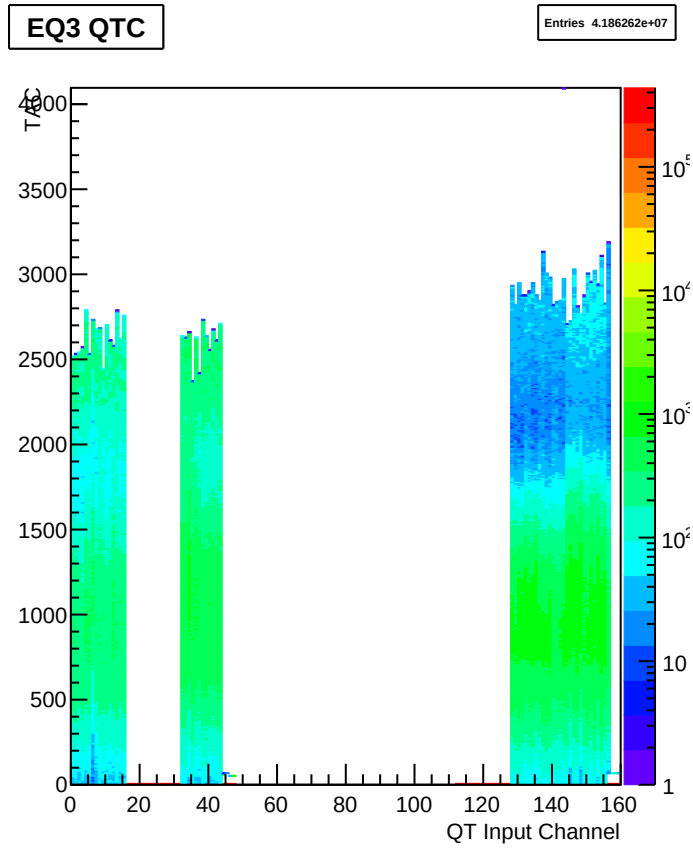

EQ2 QTC
Entries 4.186262e+07
ADC
QT Input Channel

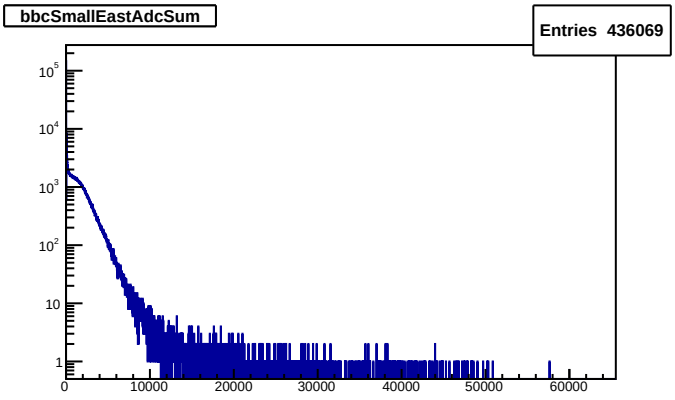

EQ2 QTC
Entries 4.186262e+07
TADC
QT Input Channel

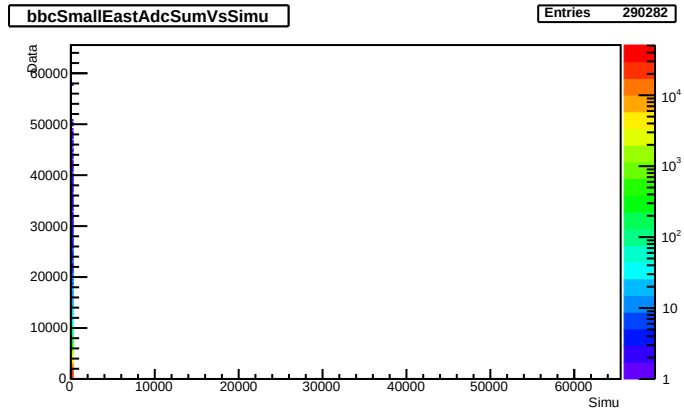

EQ3 QTB
Entries 1.116337e+08
ADC
QT Input Channel

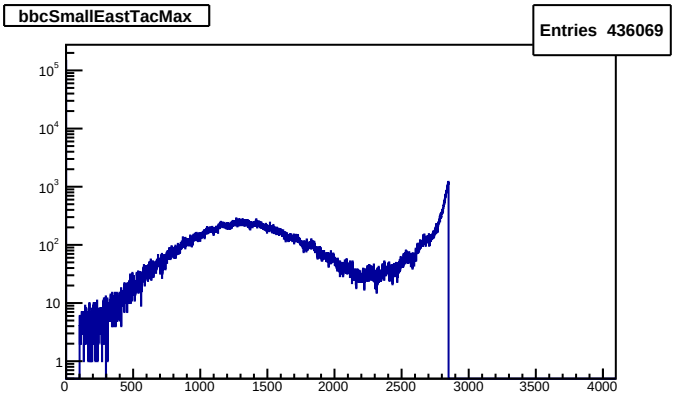

EQ3 QTB
Entries 3.33682e+07
TDC
QT Input Channel

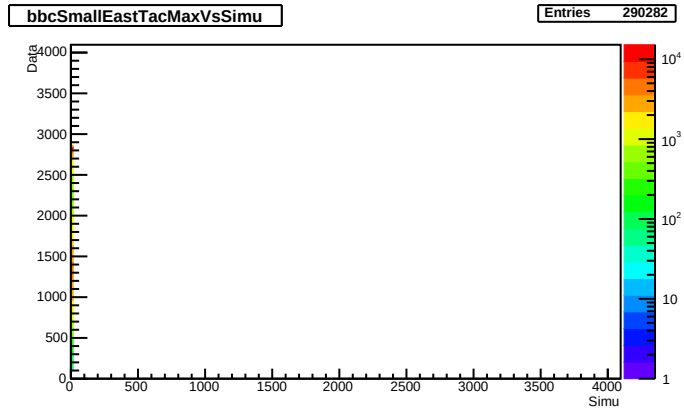

EQ3 QTC
Entries 4.186262e+07
ADC
QT Input Channel

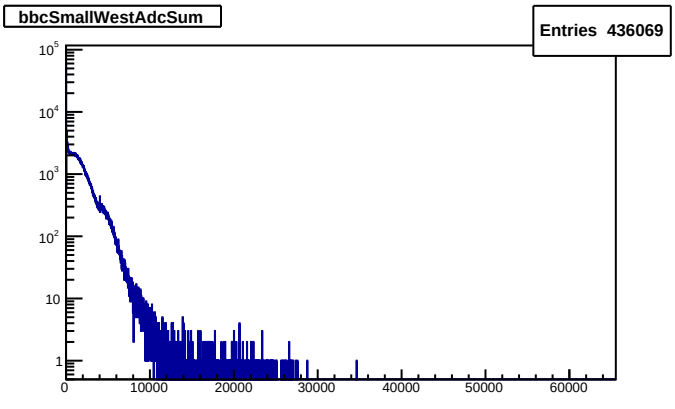

EQ3 QTC
Entries 4.186262e+07
TADC
QT Input Channel

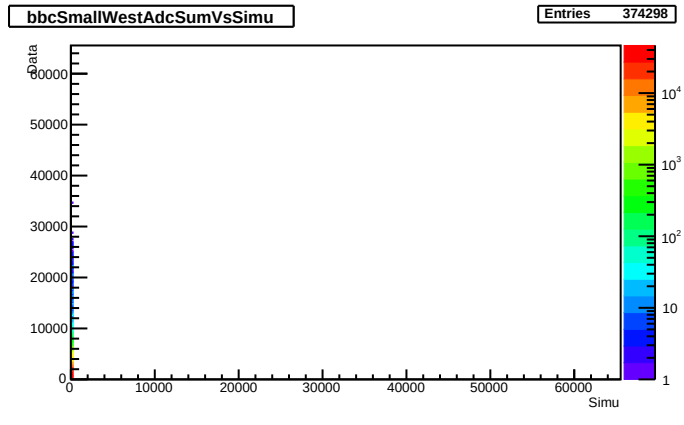

bbcSmallEastAdcSum
Entries 436069

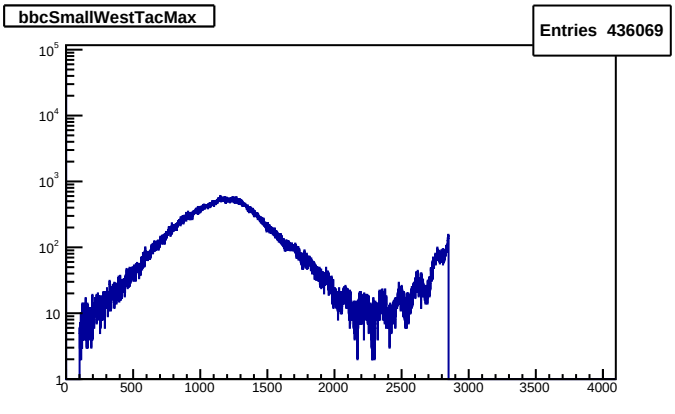

bbcSmallEastAdcSumVsSimu
Entries 290282
Data
Simu


bbcSmallEastTacMax
Entries 436069


bbcSmallEastTacMaxVsSimu
Entries 290282
Data
Simu


bbcSmallWestAdcSum
Entries 436069


bbcSmallWestAdcSumVsSimu
Entries 374298
Data
Simu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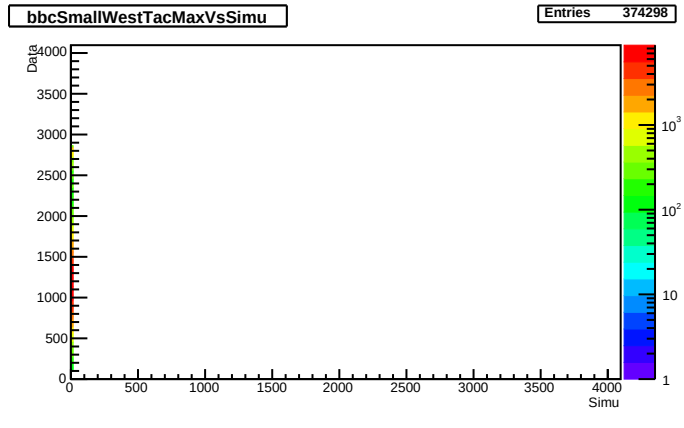
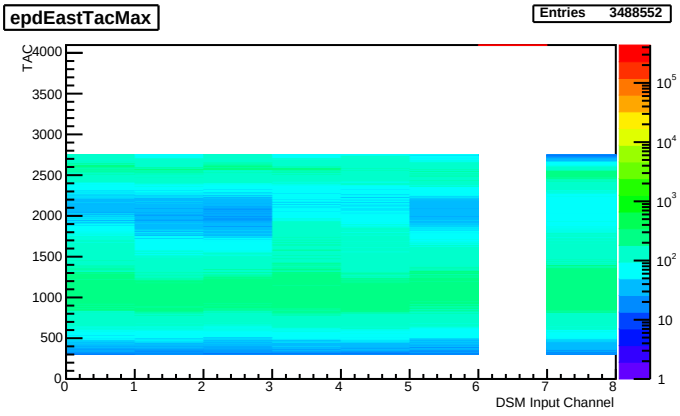
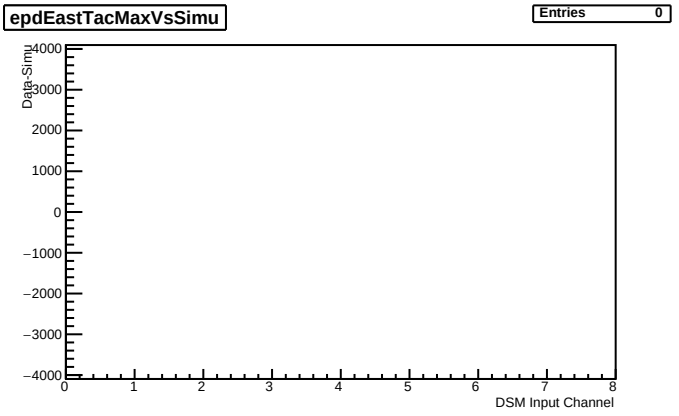
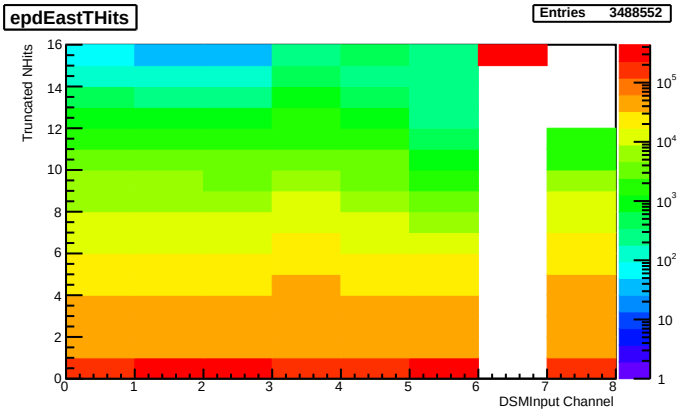
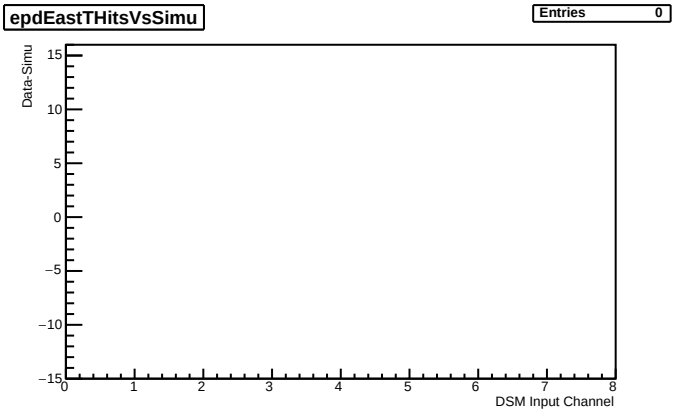
Entries 436069


bbcSmallWestTacMaxVsSimu
Entries 374298
Data
Simu


epdEastTacMax
Entries 3488552
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3488552
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
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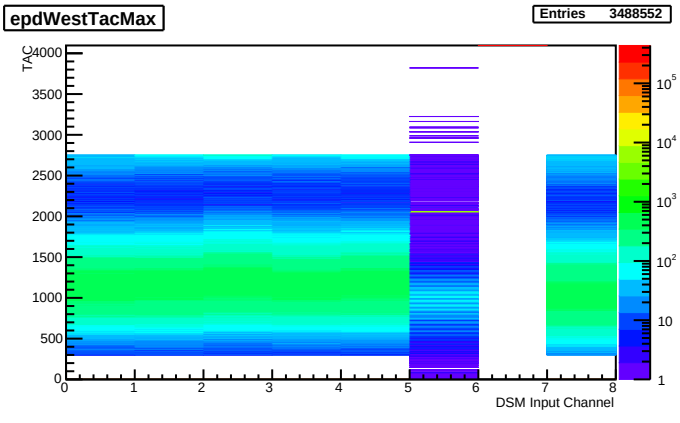
Data-Simu
DSM Input Channel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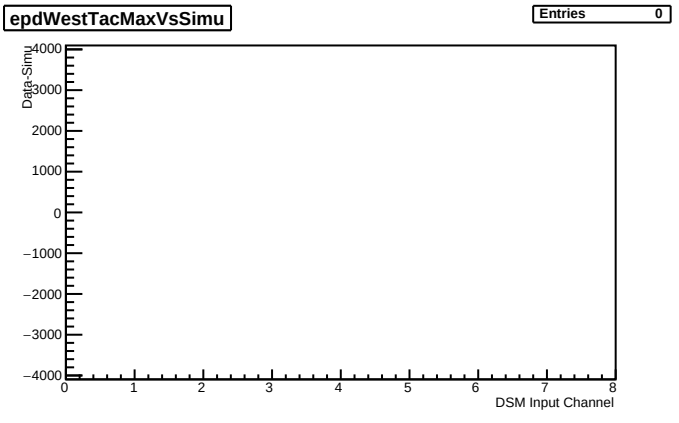
Entries 3488552
TAC
DSM Input Channel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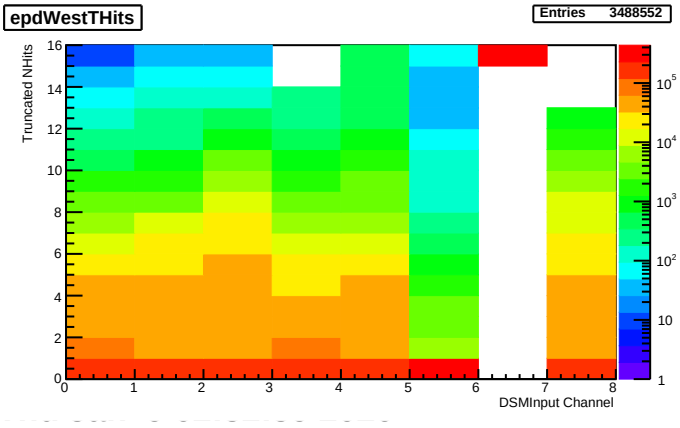
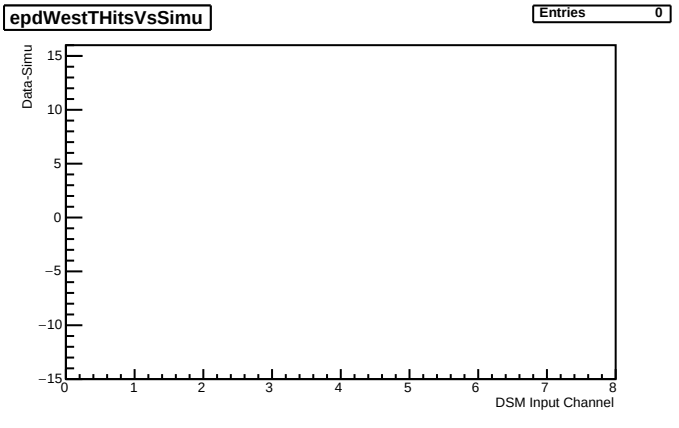
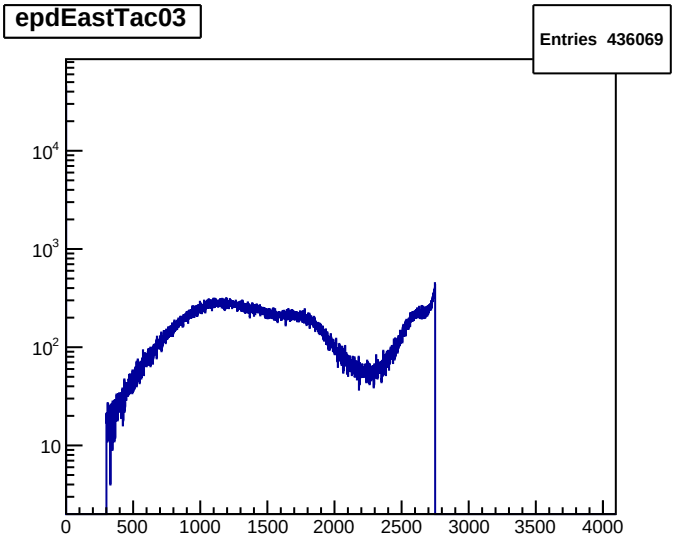
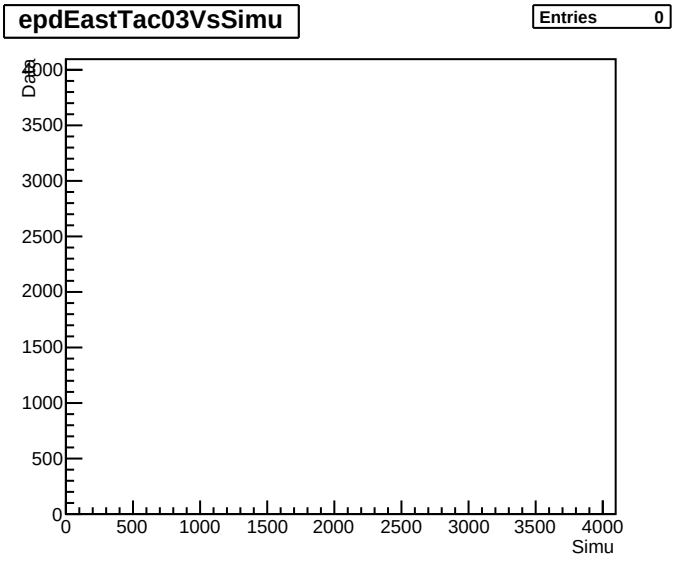
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 3488552
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 436069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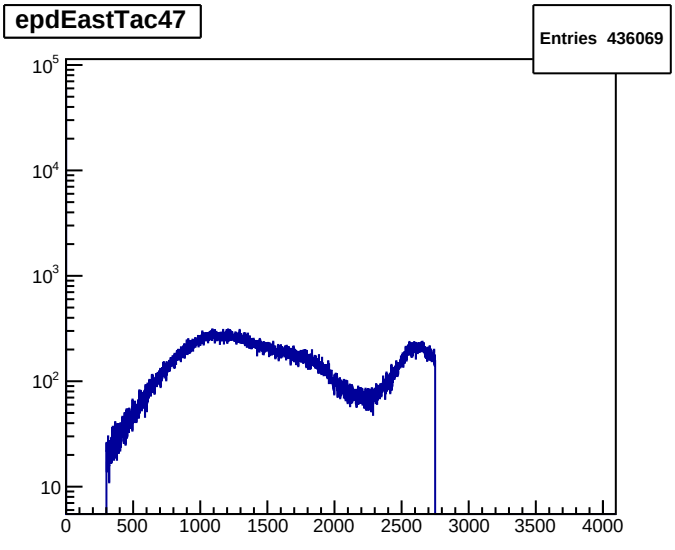
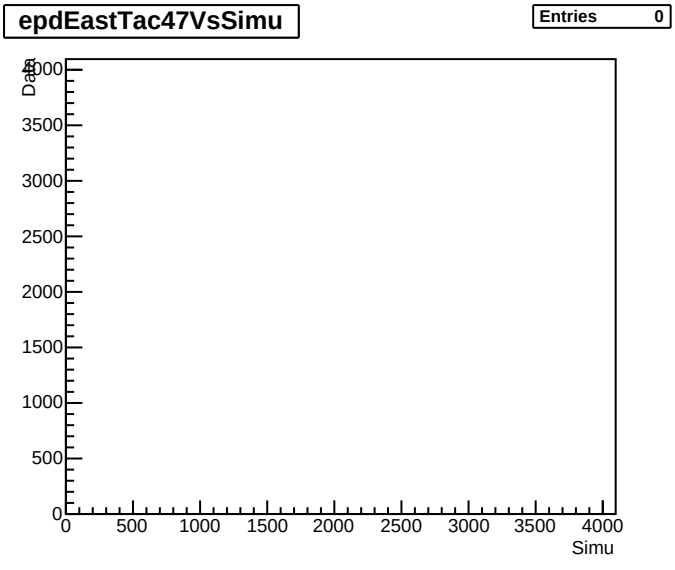
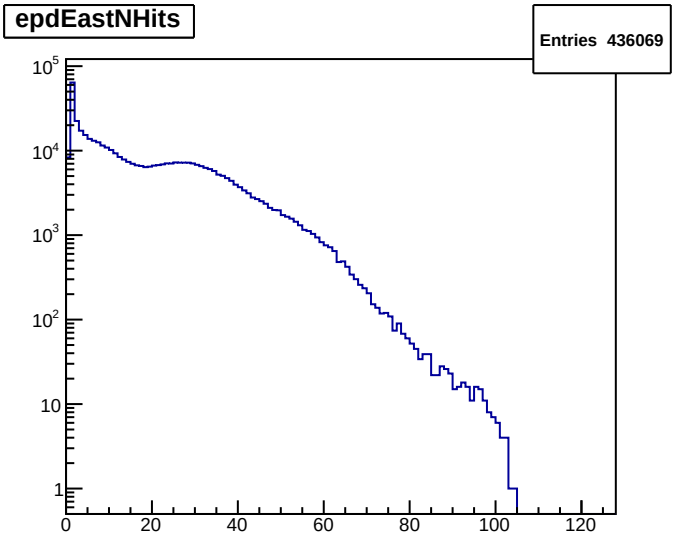
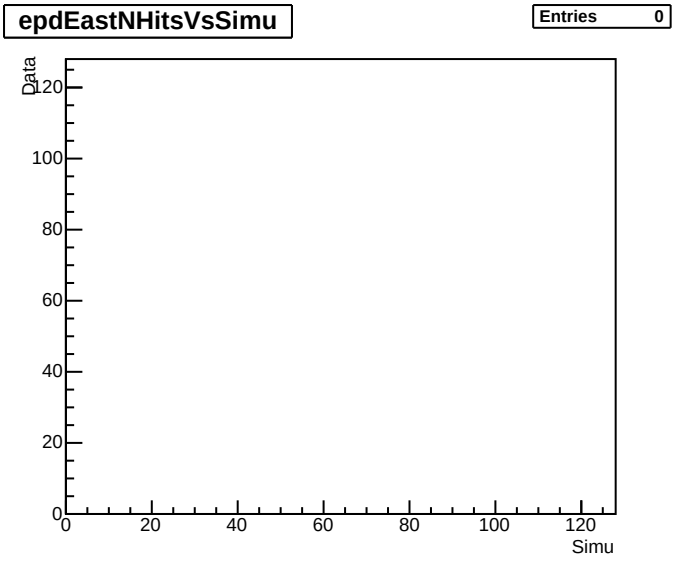
Entries 0
Data
Simu


epdEastTac47
Entries 436069


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 436069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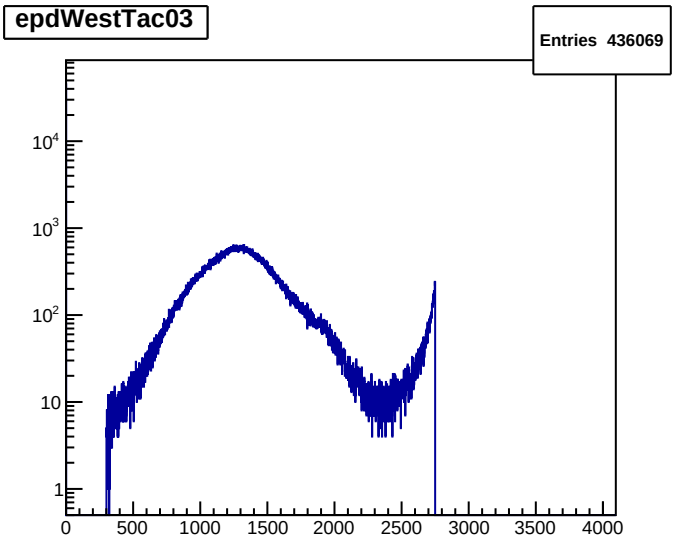
Entries 0
Data
Simu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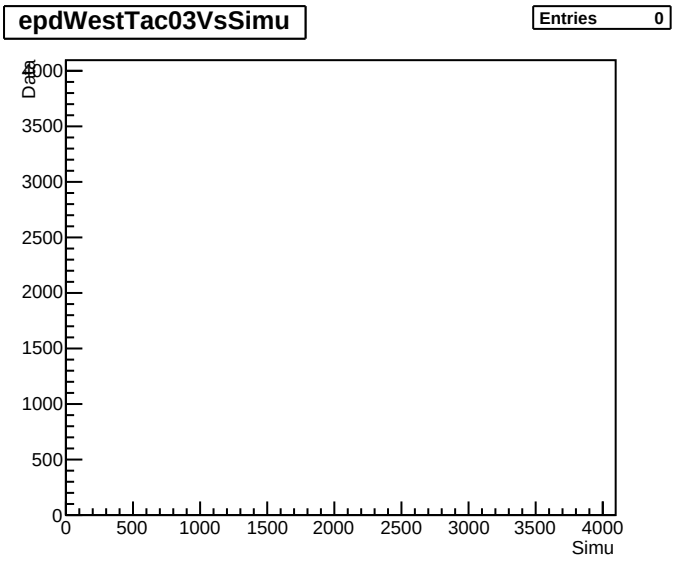
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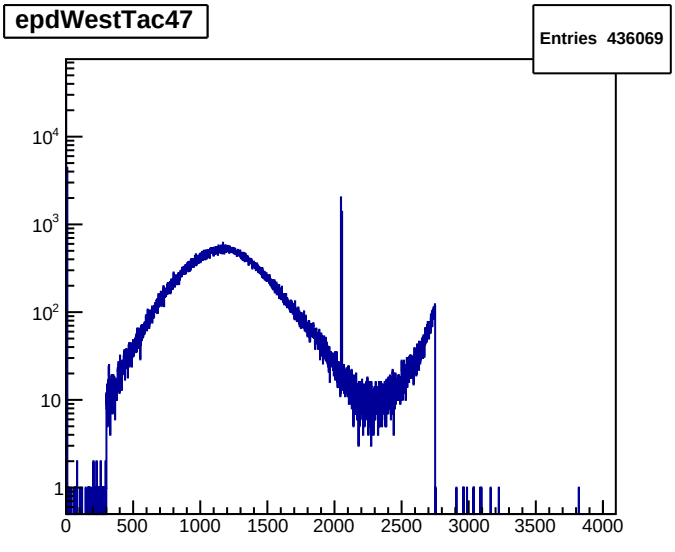
Entries 0
Data
Simu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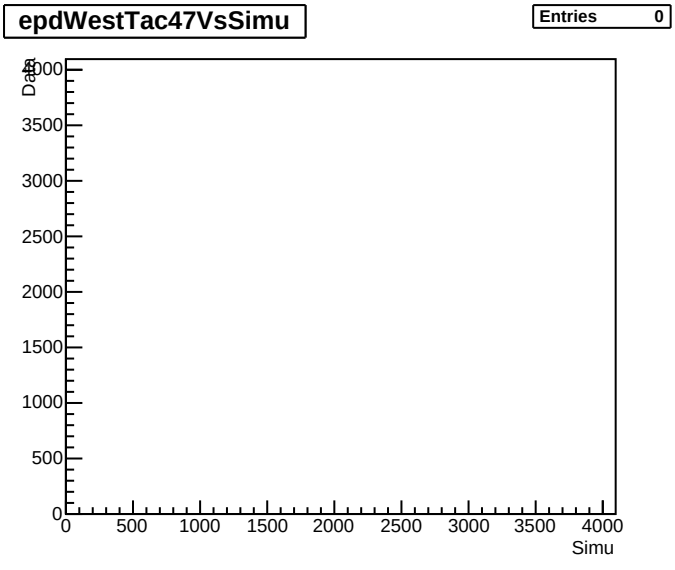
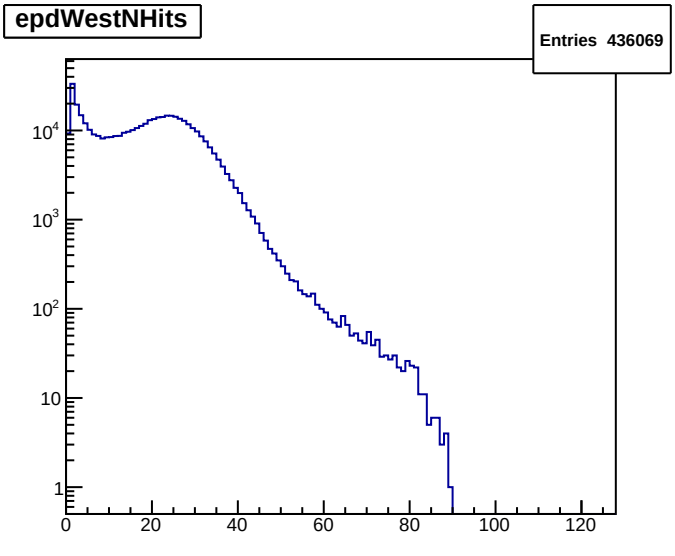
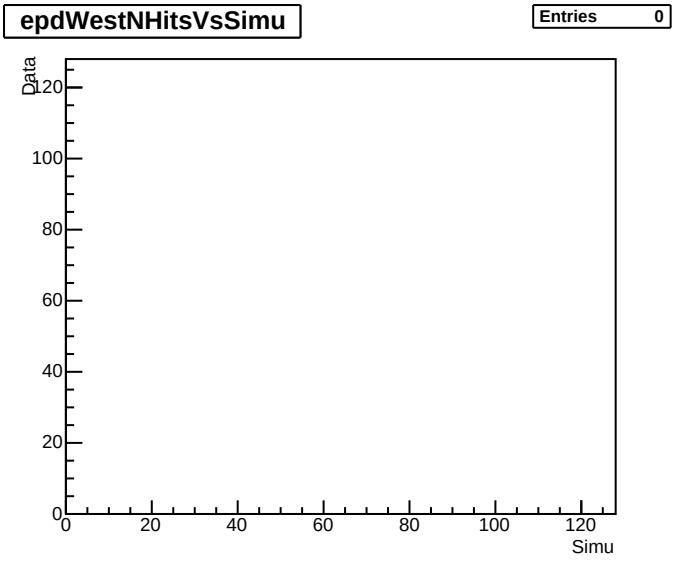
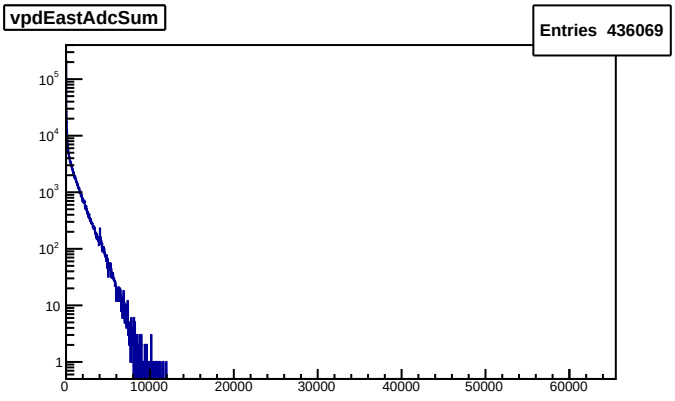
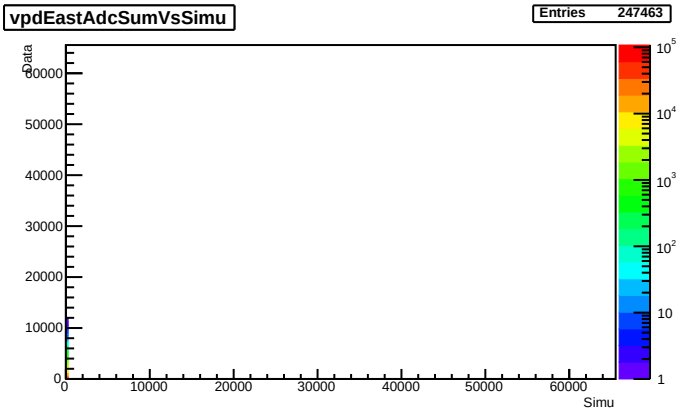
Entries 436069

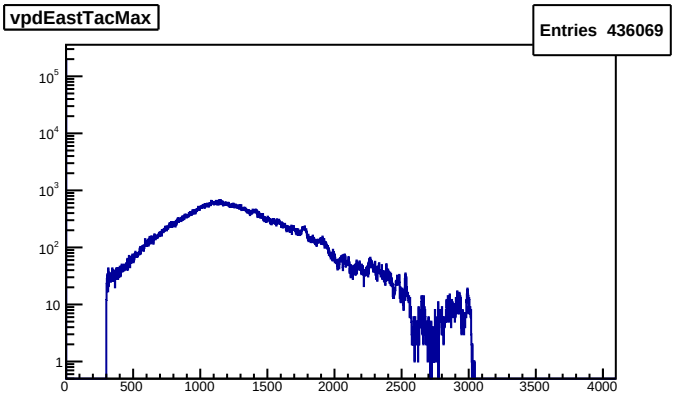

epdWestTac47VsSimu
Entries 0
Data
Simu

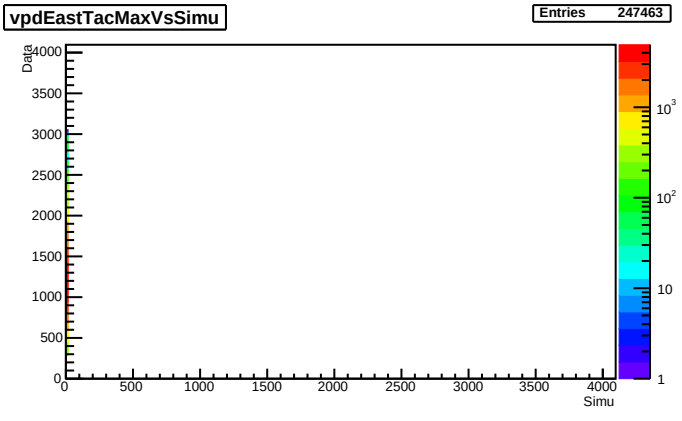

epdWestNHits
Entries 436069

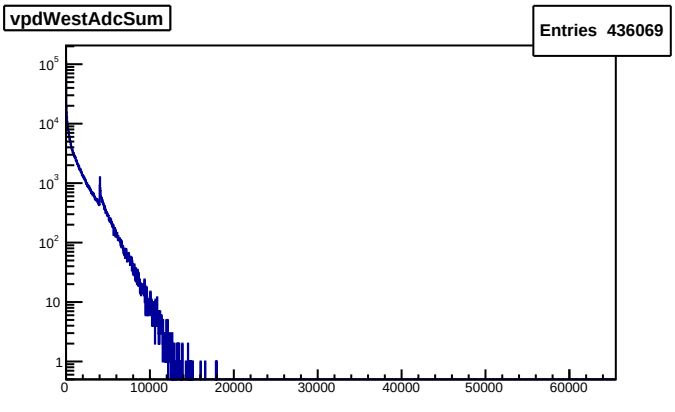

epdWestNHitsVsSimu
Entries 0
Data
Simu

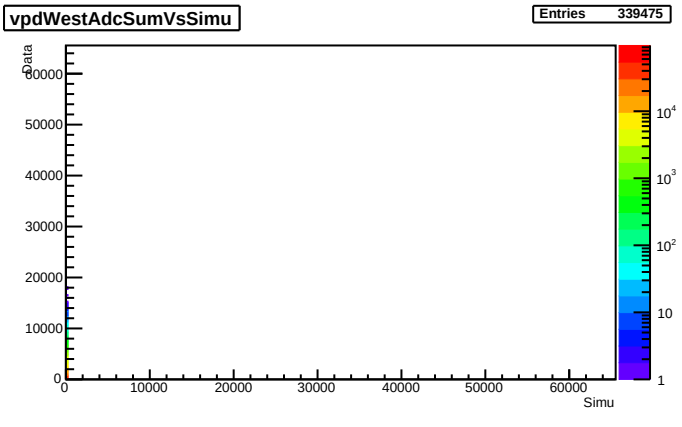

vpdEastAdcSum
Entries 436069

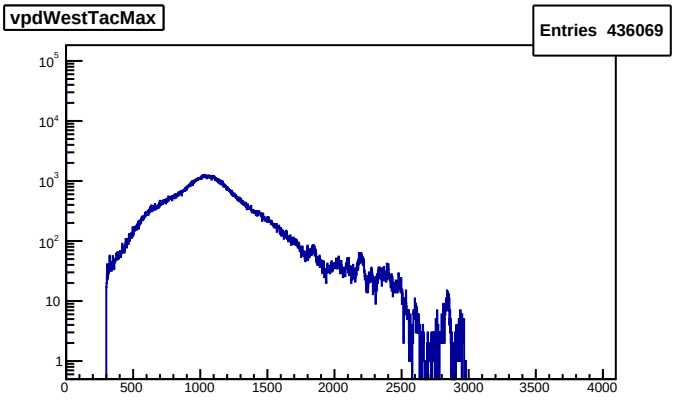

vpdEastAdcSumVsSimu
Entries 247463
Data
Simu

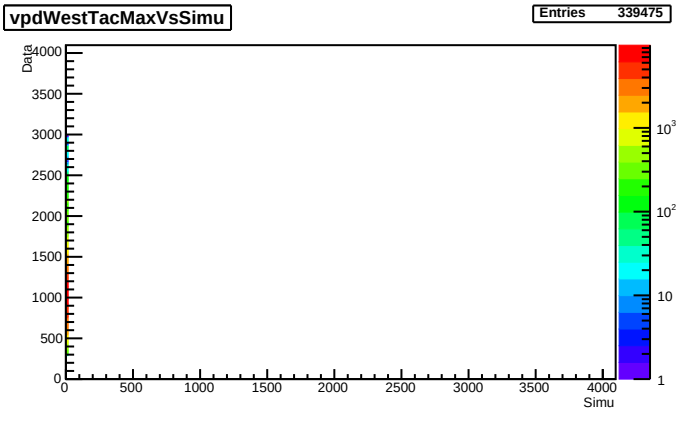

vpdEastTacMax
Entries 436069

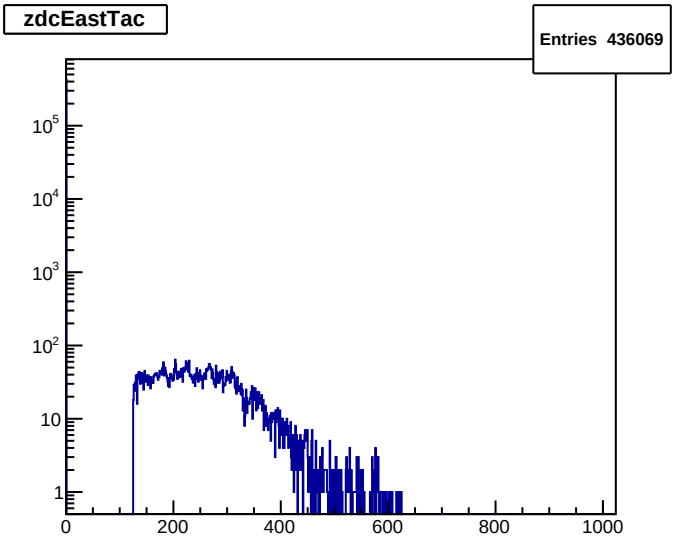

vpdEastTacMaxVsSimu
Entries 247463
Data
Simu

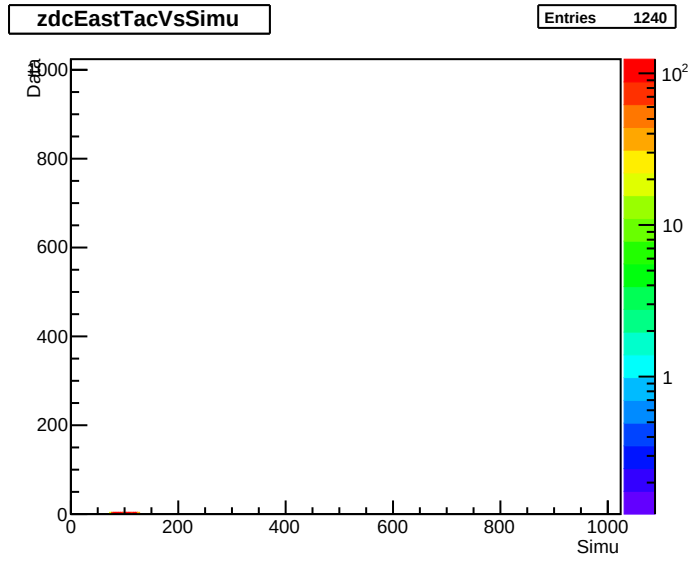

vpdWestAdcSum
Entries 436069

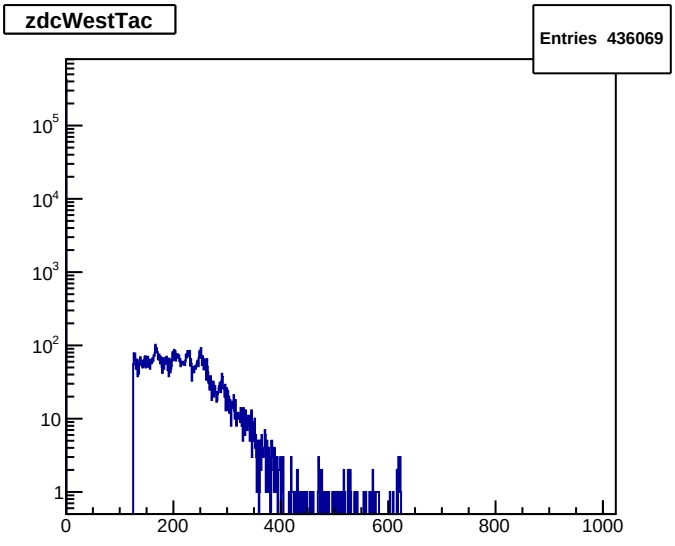

vpdWestAdcSumVsSimu
Entries 339475
Data
Simu

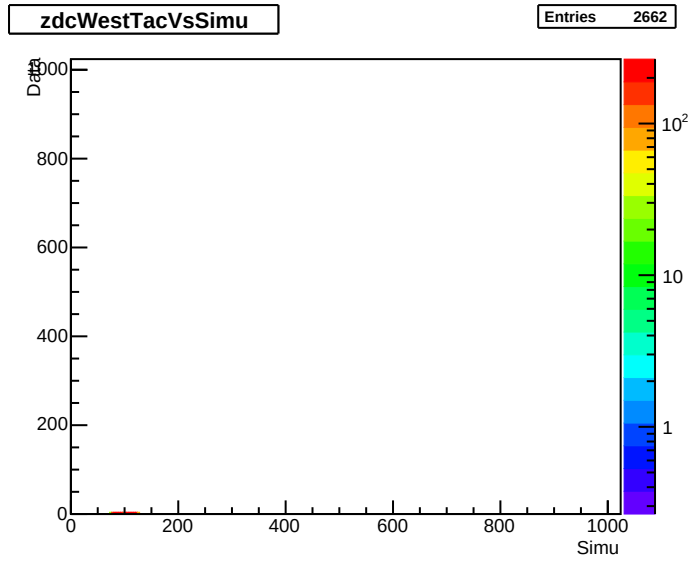

vpdWestTacMax
Entries 436069

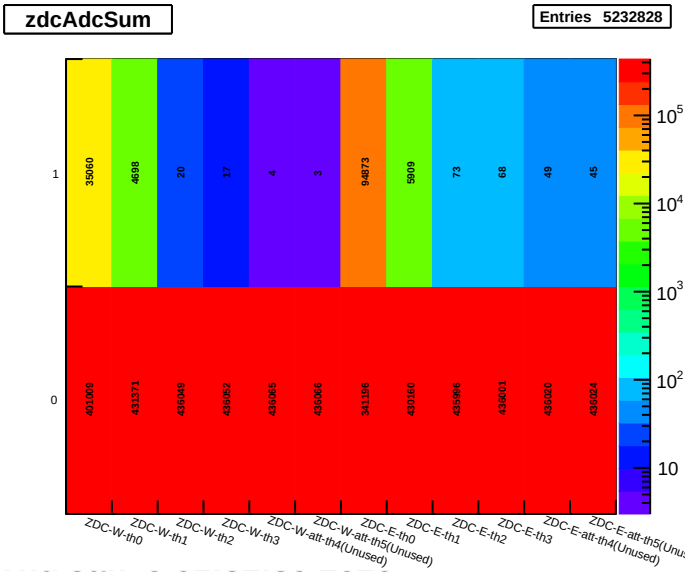

vpdWestTacMaxVsSimu
Entries 339475
Data
Simu

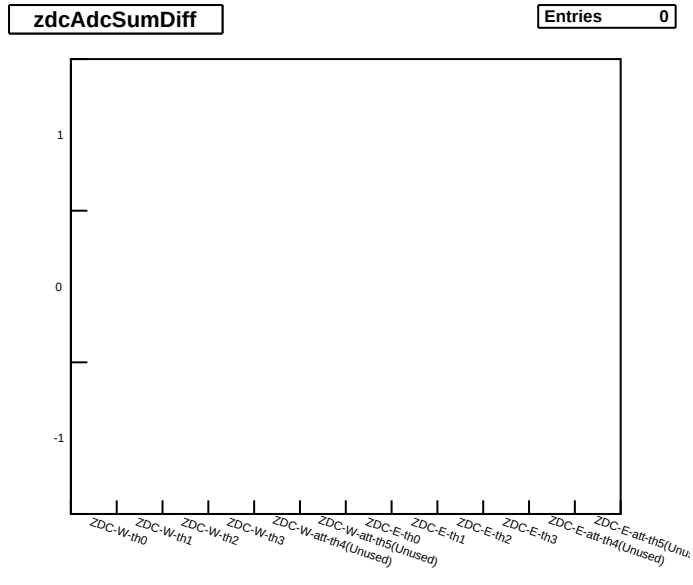

zdcEastTac
Entries 436069

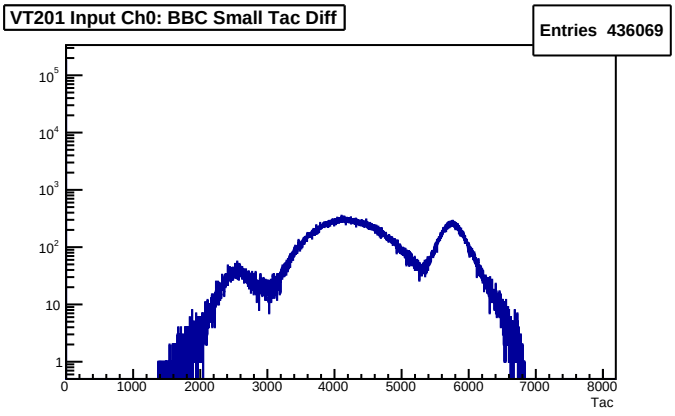

zdcEastTacVsSimu
Entries 1240
Data
Simu

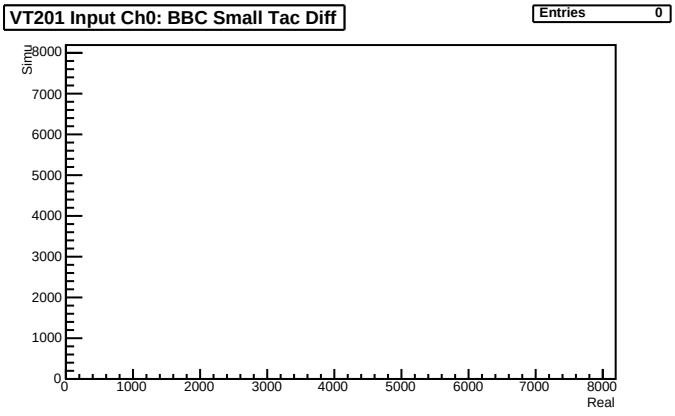

zdcWestTac
Entries 436069

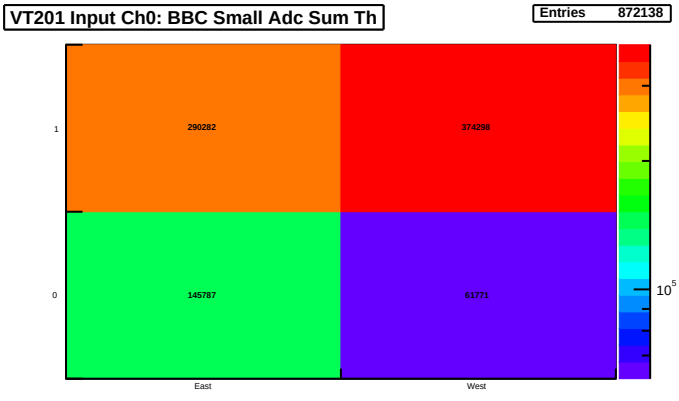

zdcWestTacVsSimu
Entries 2662
Data
Simu

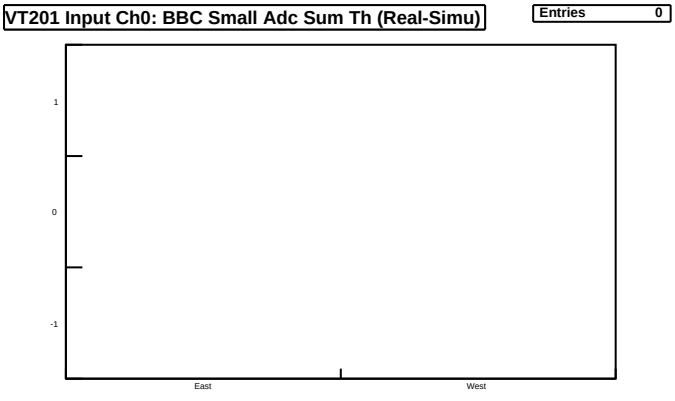

zdcAdcSum
Entries 5232828
35060
4698
20
17
4
3
94873
5909
73
68
49
45
401009
431371
436049
436052
436065
436066
341196
430160
435996
436001
436020
436024
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

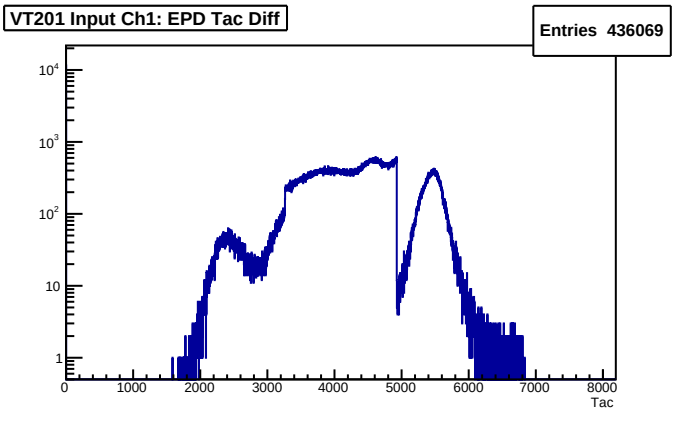

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

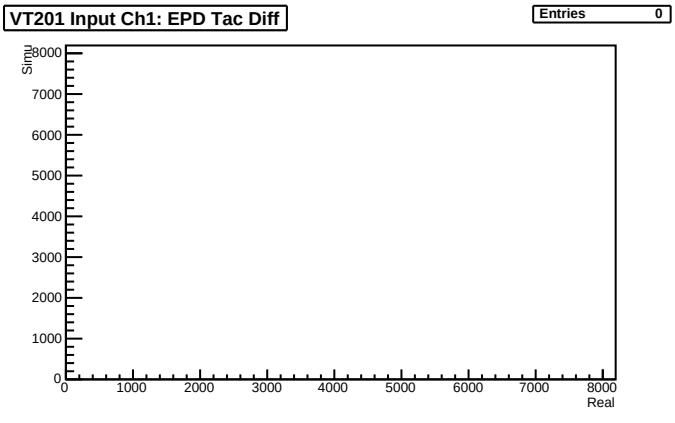

VT201 Input Ch0: BBC Small Tac Diff
Entries 436069
Tac

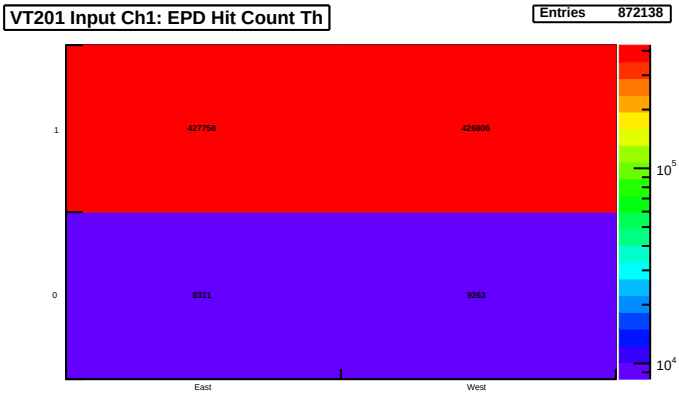

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

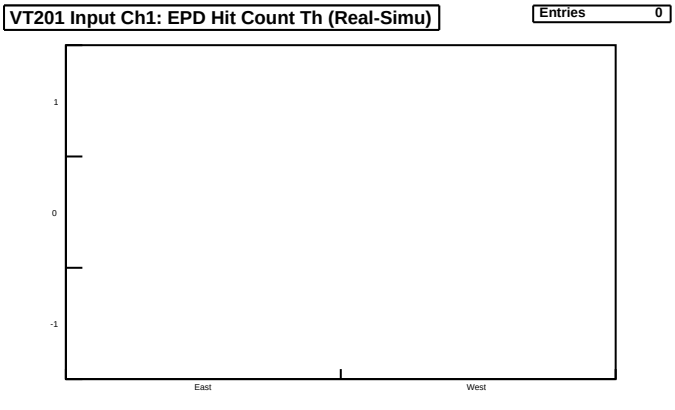

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 872138
290282
374298
145787
61771
East
West

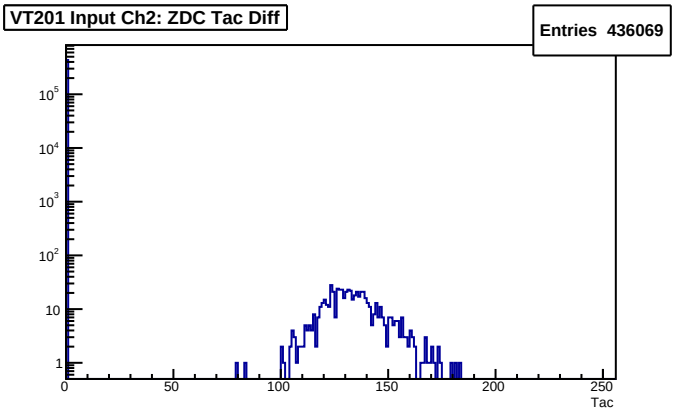

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

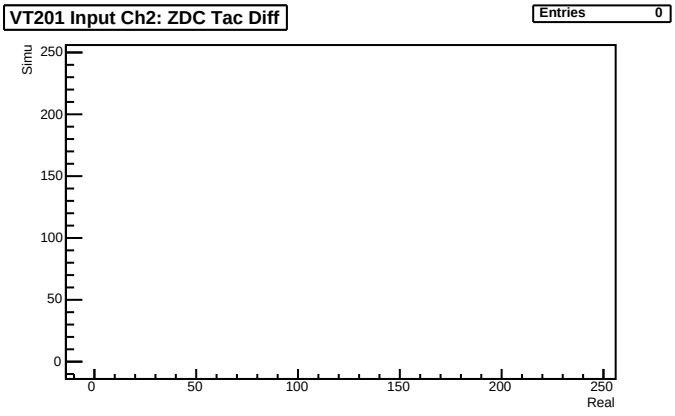

VT201 Input Ch1: EPD Tac Diff
Entries 436069
Tac

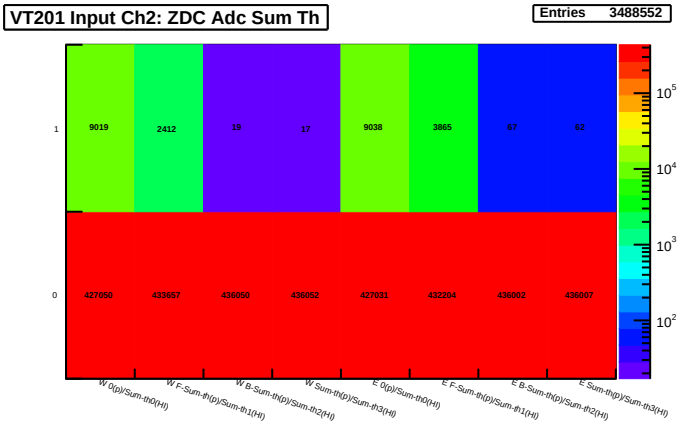

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

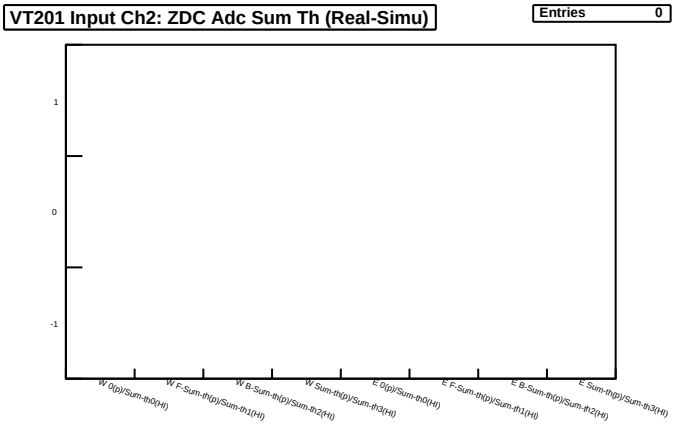

VT201 Input Ch1: EPD Hit Count Th
Entries 872138
427758
426806
8311
9263
East
West

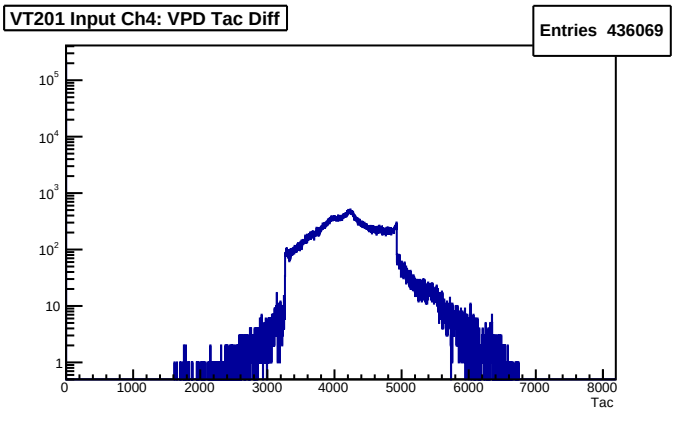

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

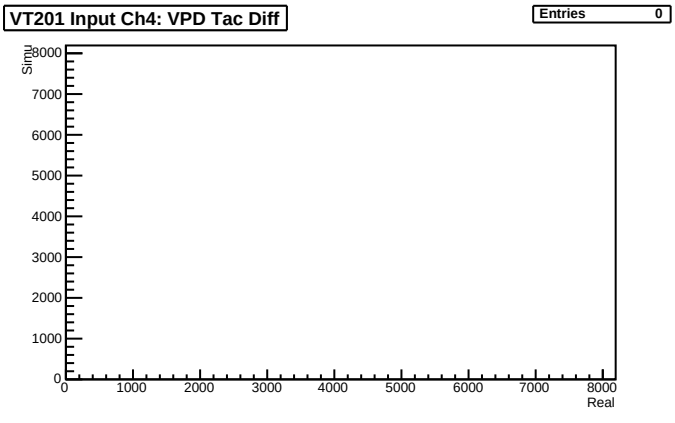

VT201 Input Ch2: ZDC Tac Diff
Entries 436069
Tac

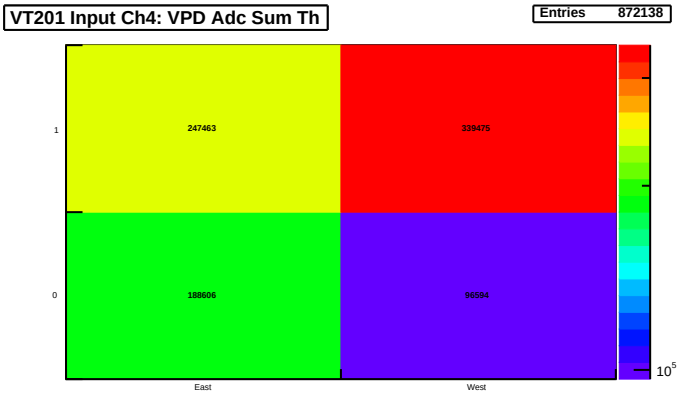

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

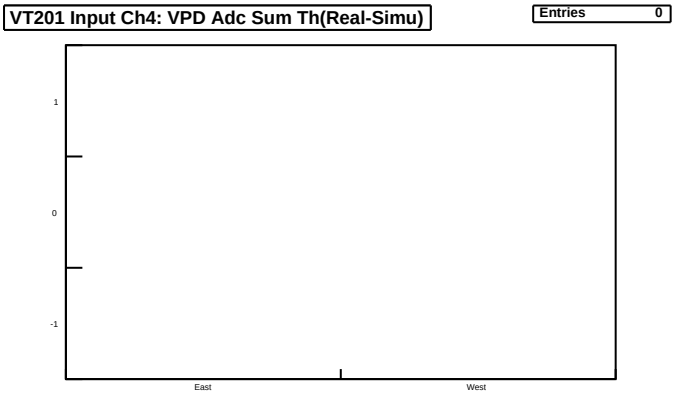

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3488552
9019
2412
19
17
9038
3865
67
62
427050
433657
436050
436052
427031
432204
436002
436007
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

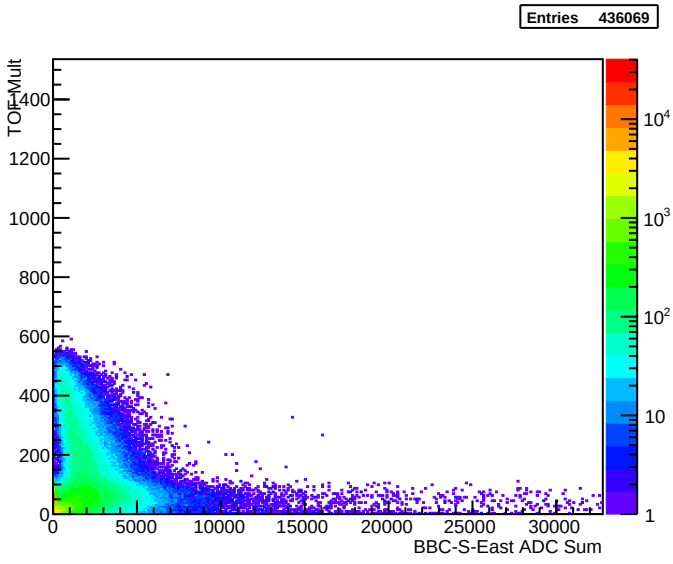

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

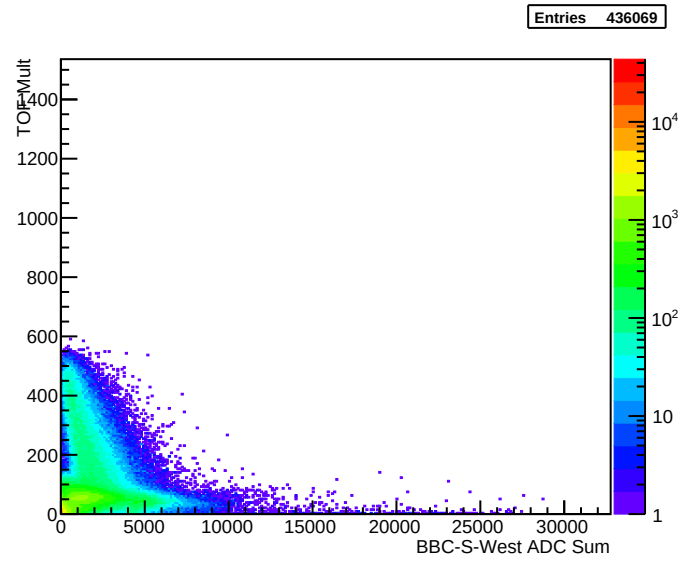

VT201 Input Ch4: VPD Tac Diff
Entries 436069
Tac

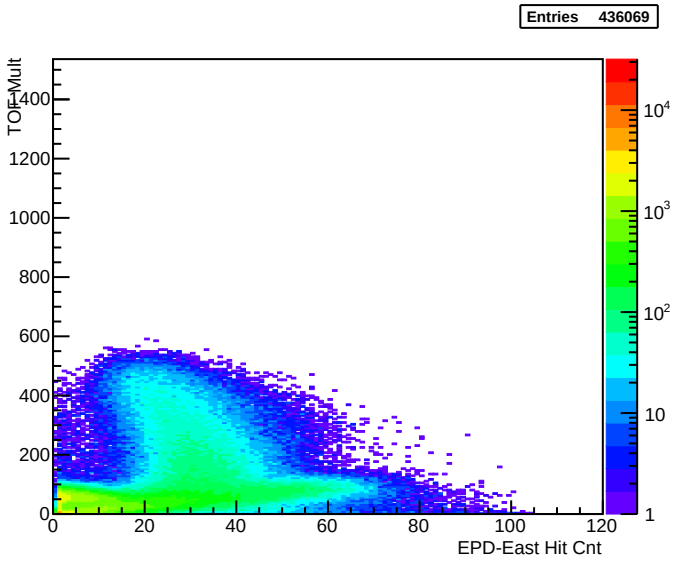

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

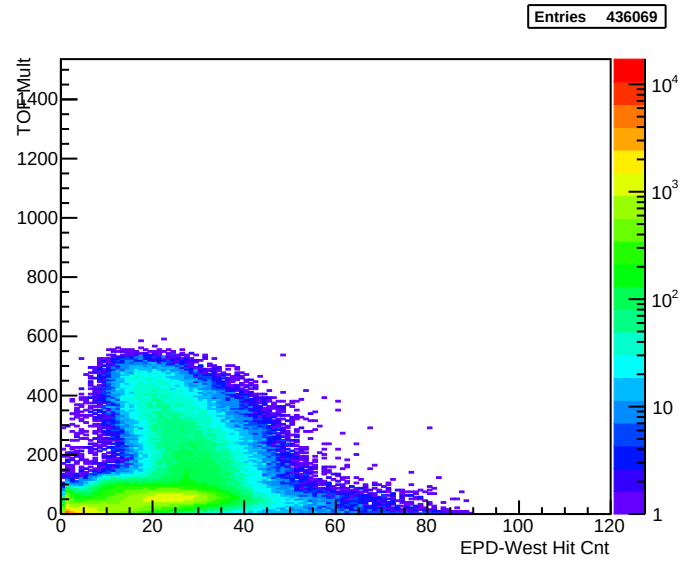

VT201 Input Ch4: VPD Adc Sum Th
Entries 872138
247463
339475
188606
96594
East
West

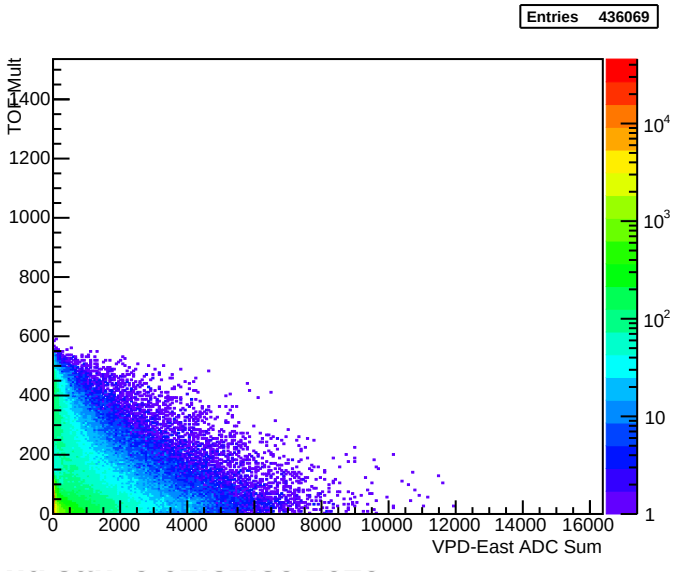

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

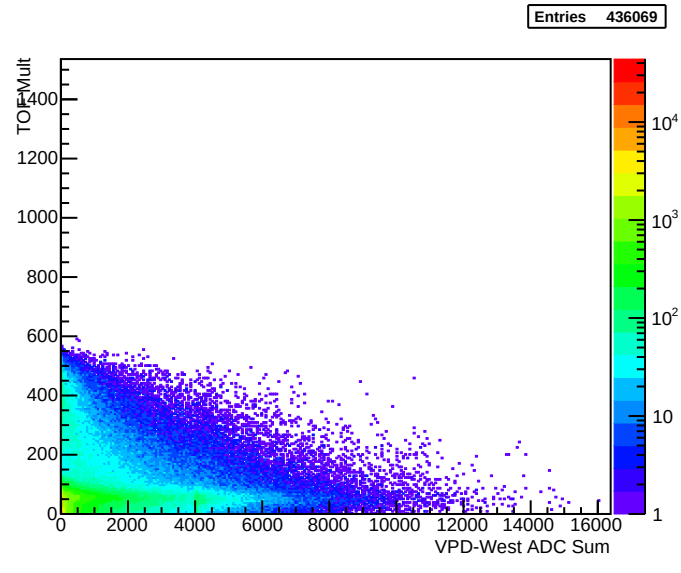

Entries 436069
TOF-Mult
BBC-S-East ADC Sum

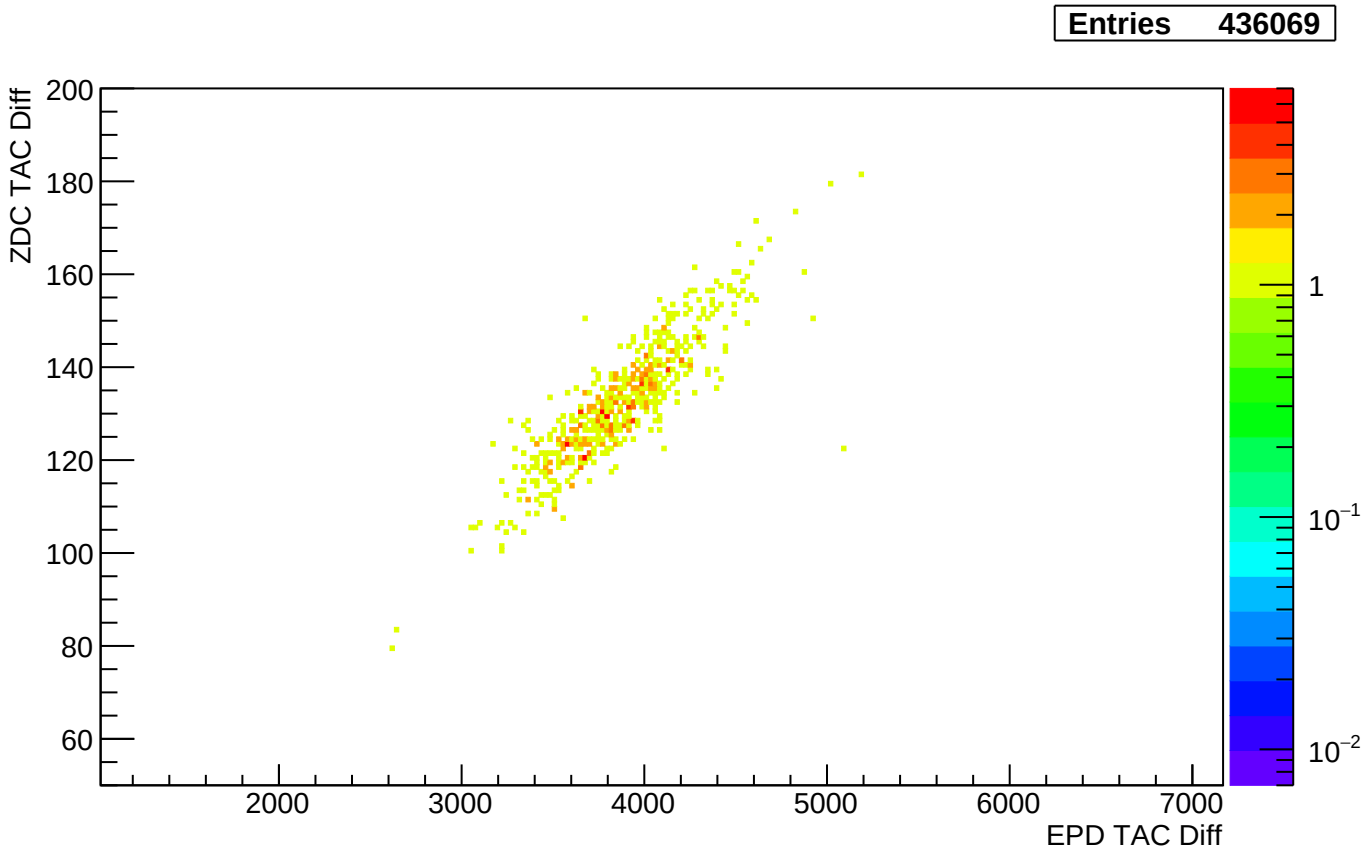

Entries 436069
TOF-Mult
BBC-S-West ADC Sum

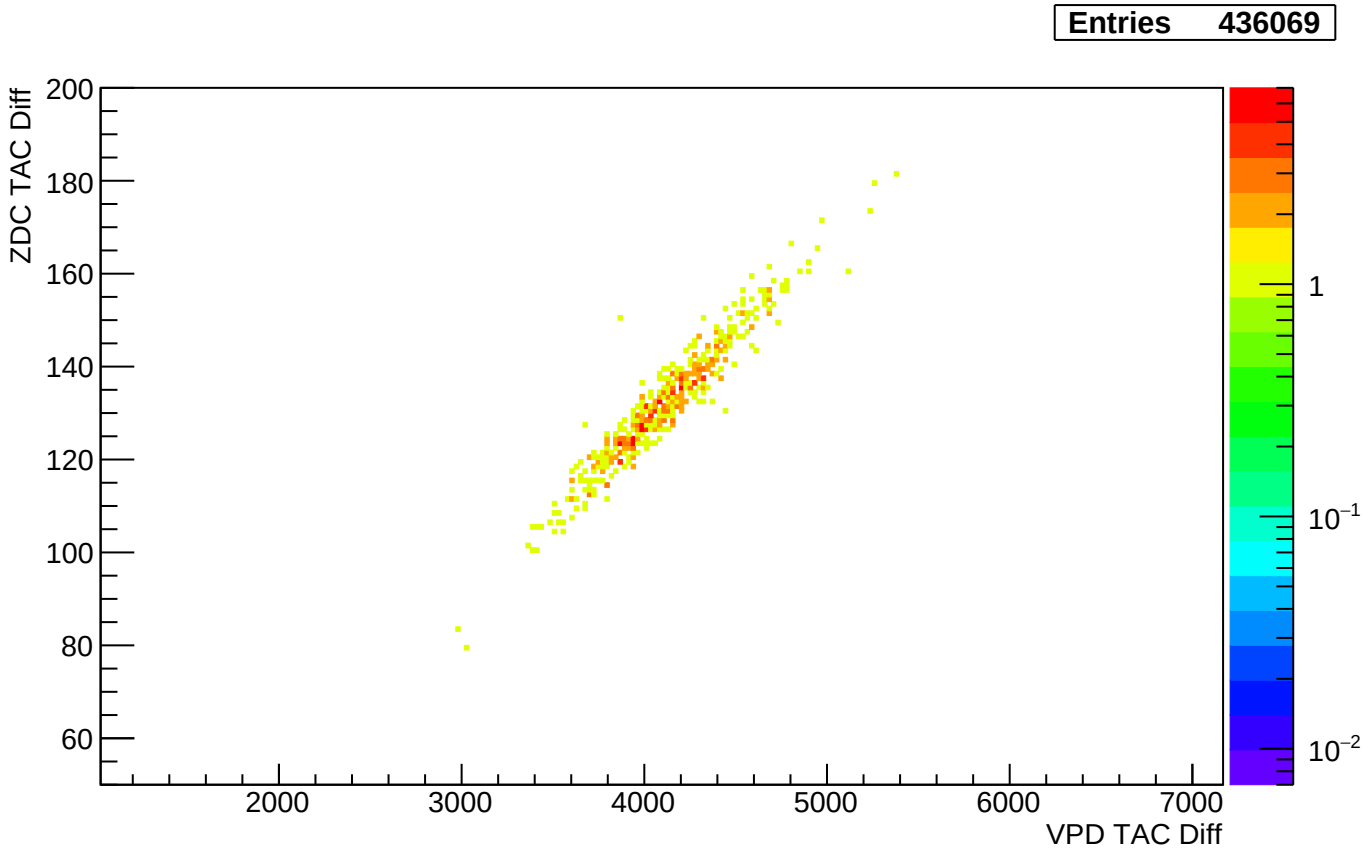

Entries 436069
TOF-Mult
EPD-East Hit Cnt

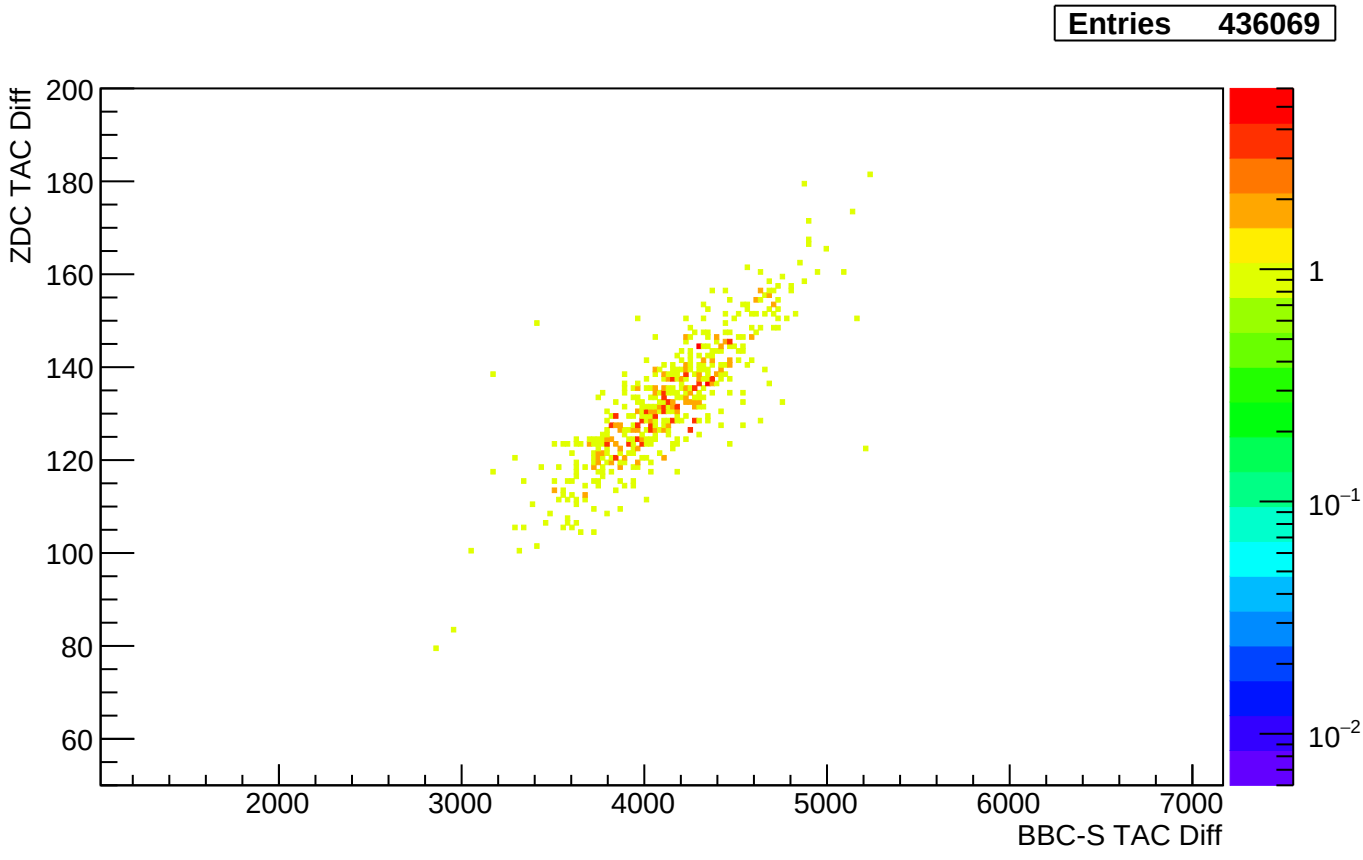

Entries 436069
TOF-Mult
EPD-West Hit Cnt

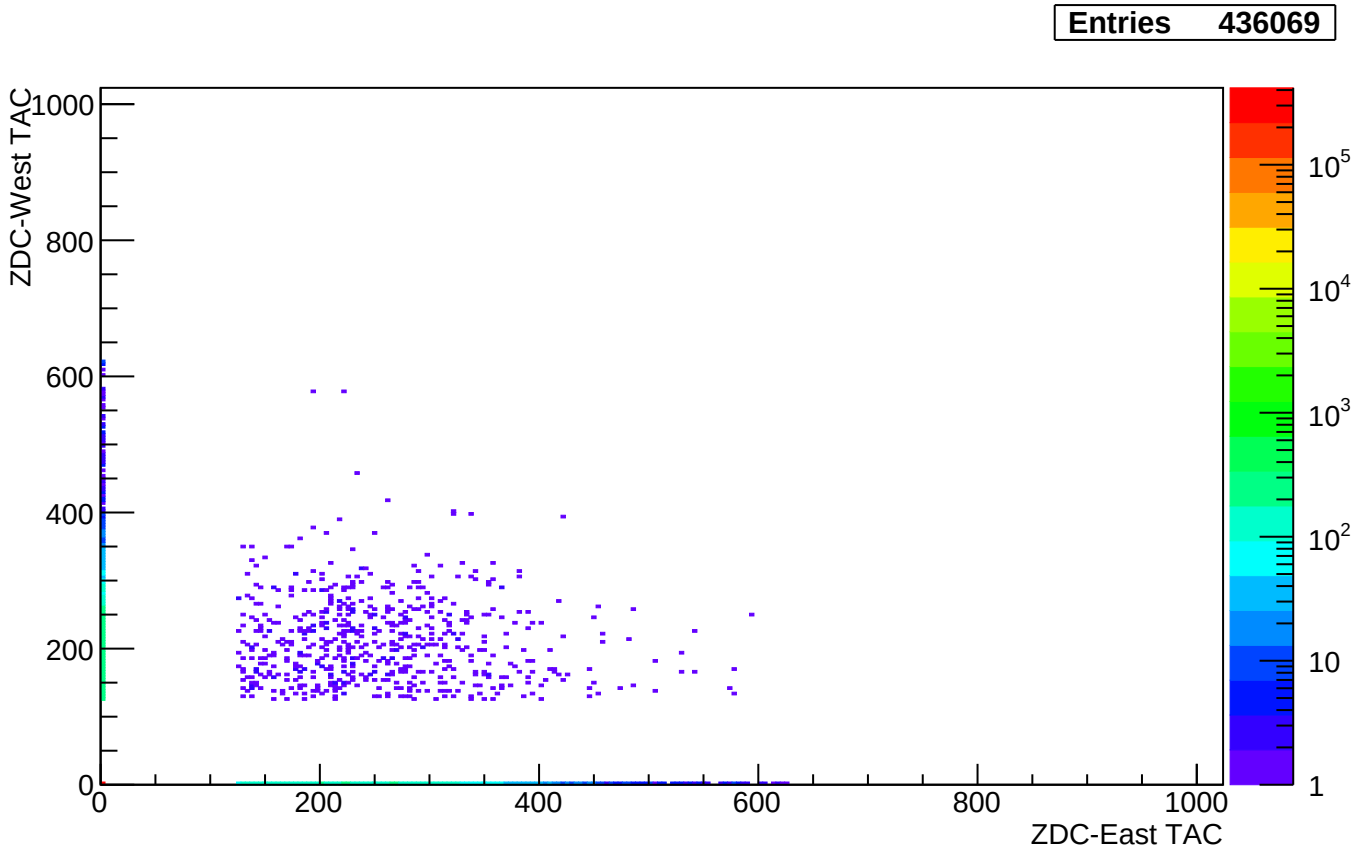

Entries 436069
TOF-Mult
VPD-East ADC Sum

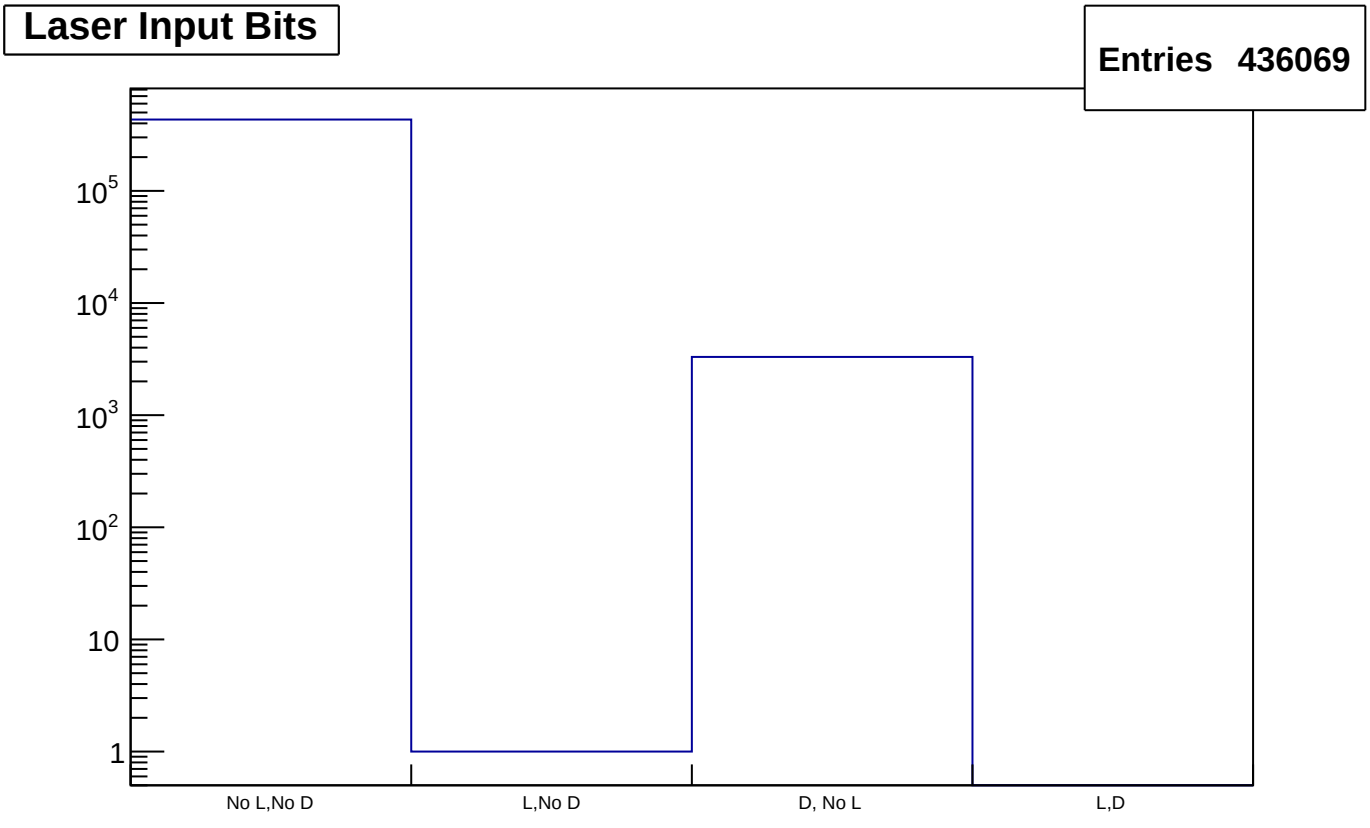

Entries 436069
TOF-Mult
VPD-West ADC Sum

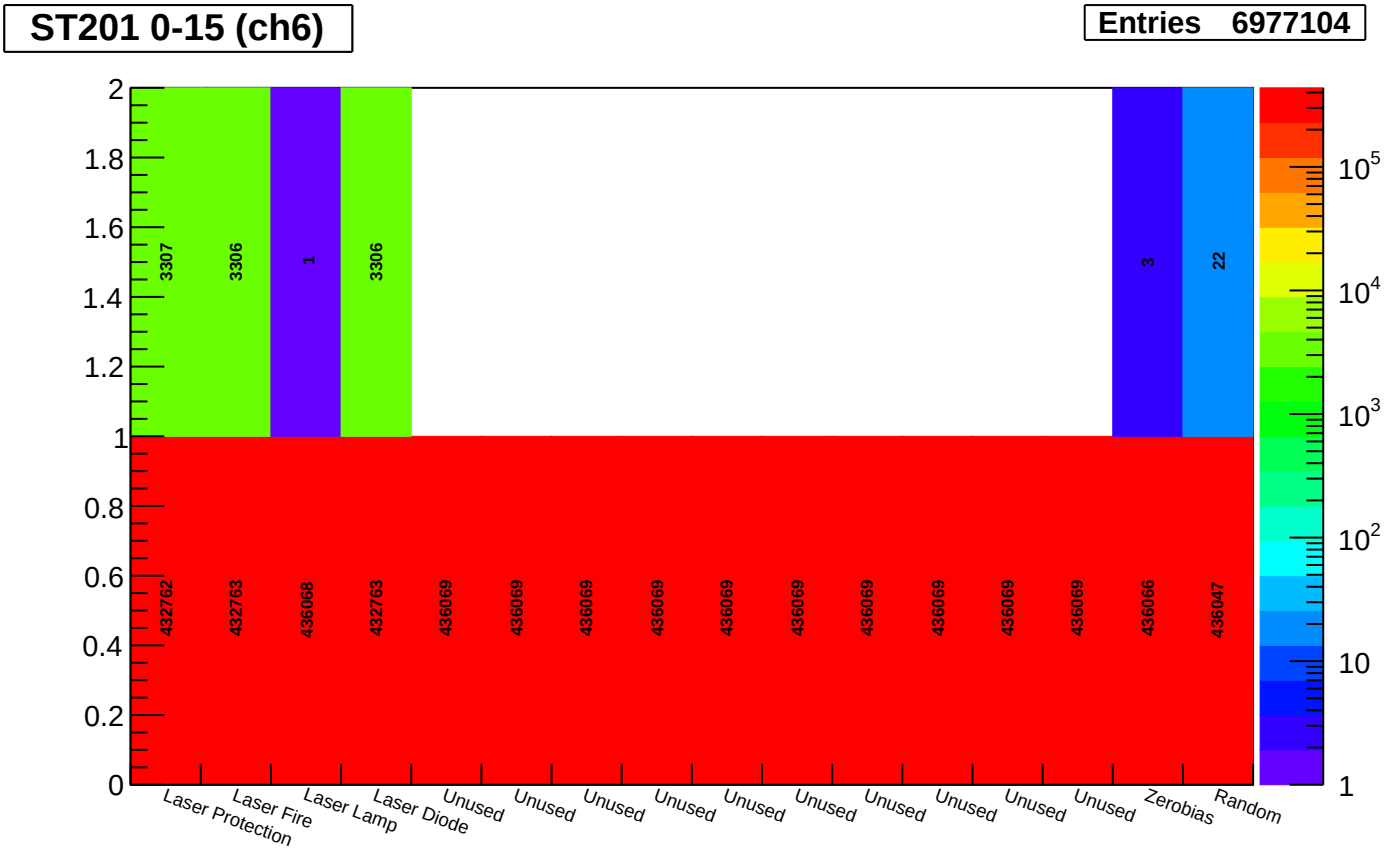

Entries 436069
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

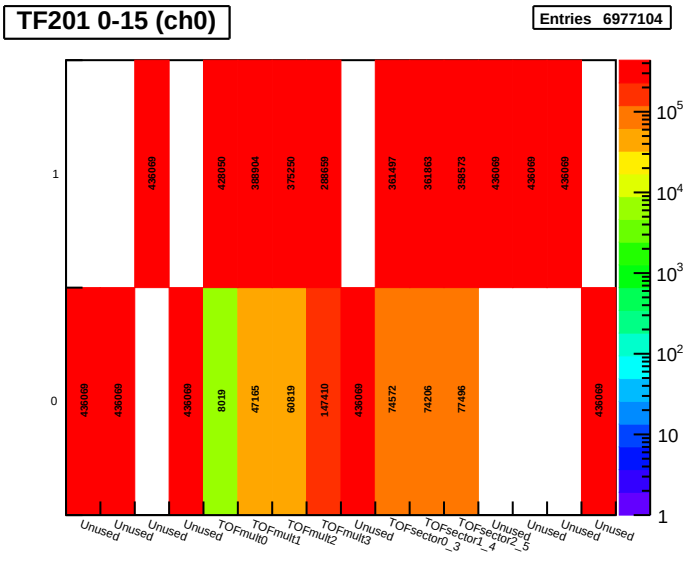

Entries 436069
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

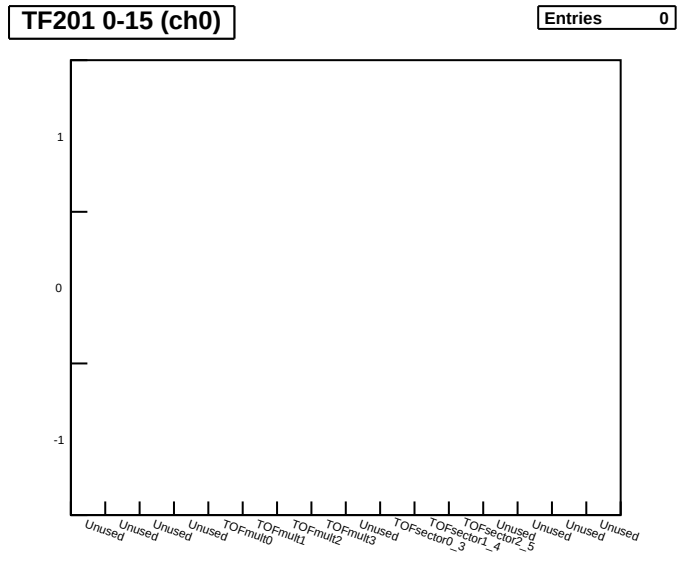

Entries 436069
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

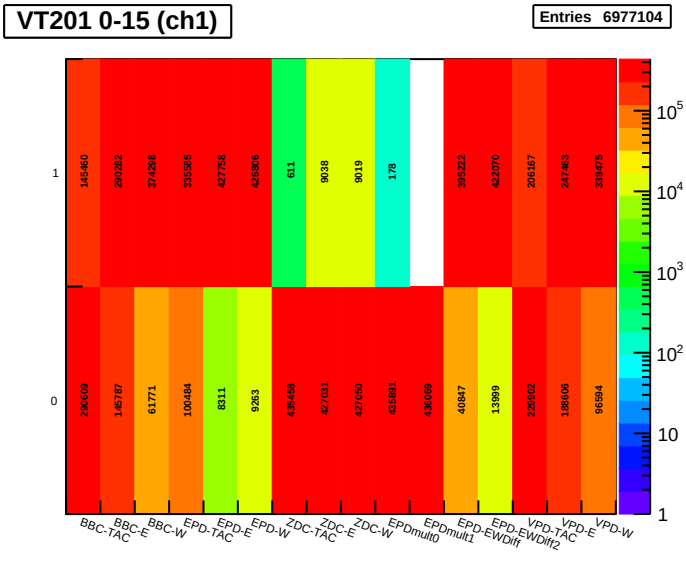

Entries 436069
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

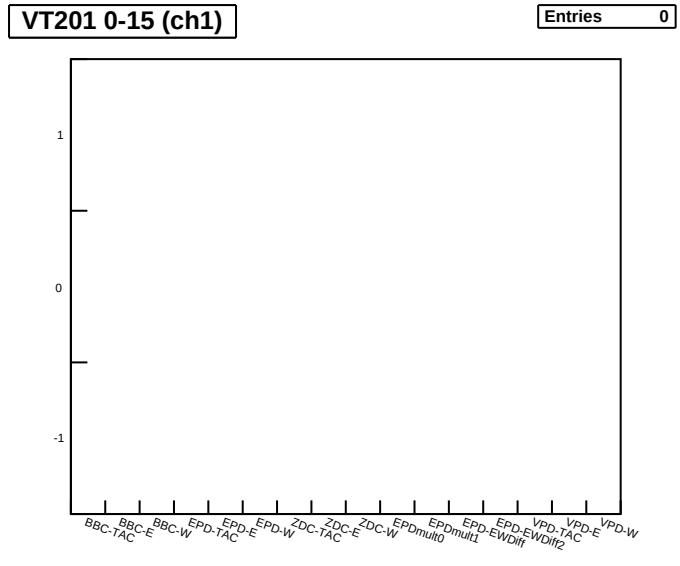

Laser Input Bits
Entries 436069
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

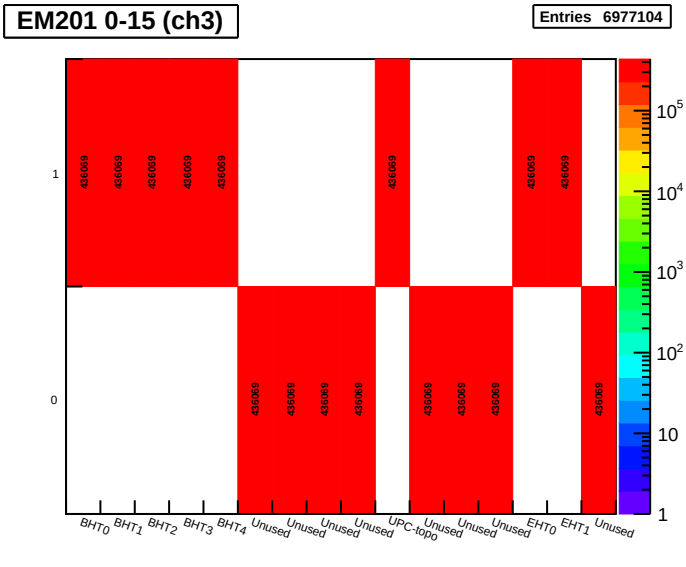

ST201 0-15 (ch6)
Entries 6977104
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3307
3306
1
3306
3
22
432762
432763
436068
432763
436069
436069
436069
436069
436069
436069
436069
436069
436069
436069
436066
436047
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

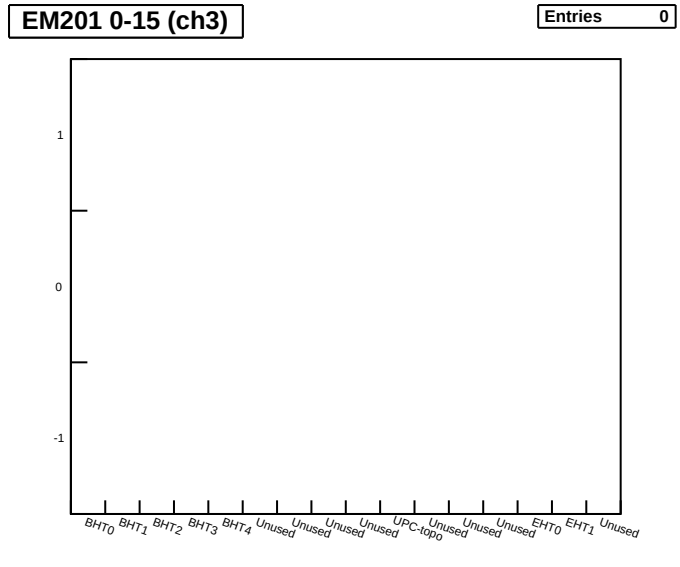

TF201 0-15 (ch0)
Entries 6977104
1
0
436069 436069 436069 8019 47165 60819 147410 436069 74572 74206 77496 436069
436069 436069 436069 436069 420050 388904 375250 298659 361497 361863 339573 436069 436069 436069
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 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


VT201 0-15 (ch1)
Entries 6977104
1
0
145460 290282 374298 335585 427758 426806 611 9038 9019 178 395222 422070 206167 247463 339475
290609 145787 61771 100484 8311 9253 435458 427031 427050 435881 436069 40847 13999 225902 188606 96594
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 6977104
1
0
436069 436069 436069 436069 436069 436069 436069 436069 436069
436069 436069 436069 436069 436069 436069 436069 436069
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