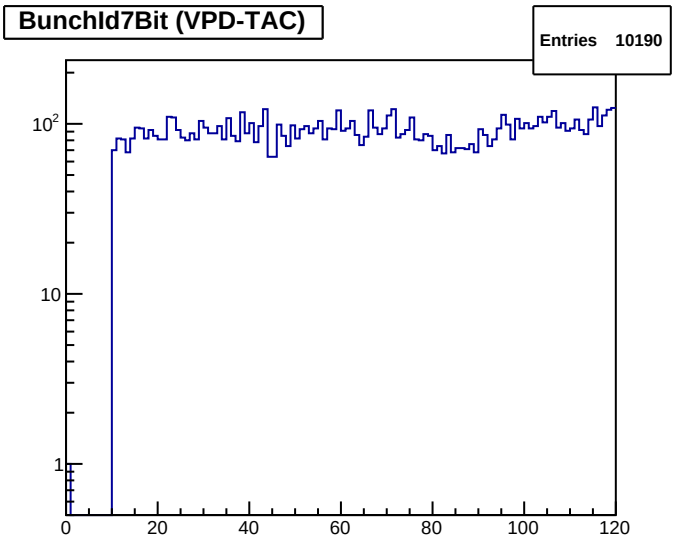
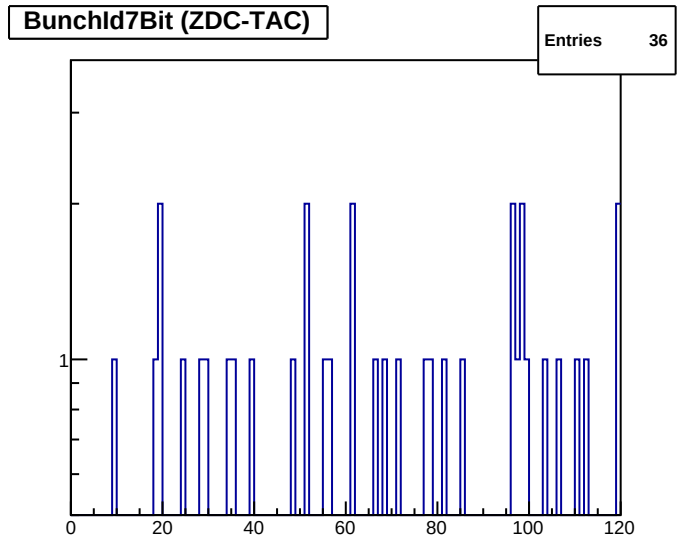
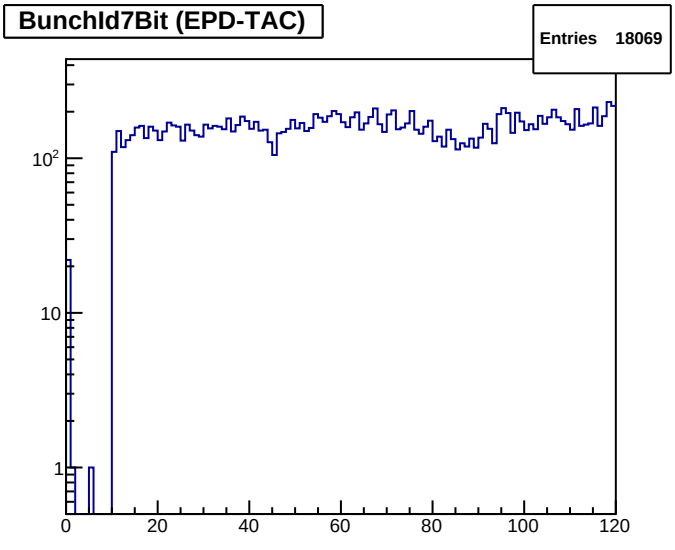
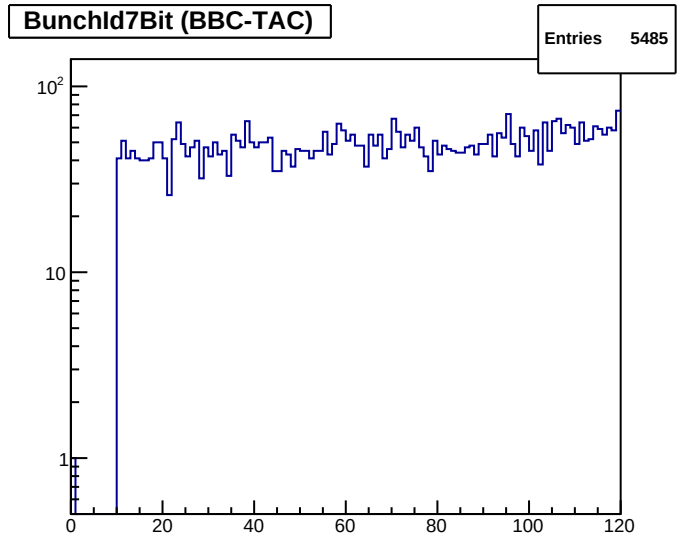
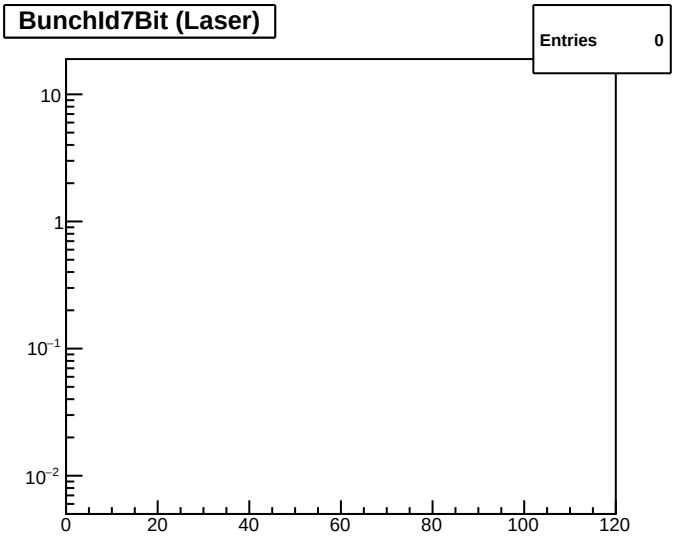
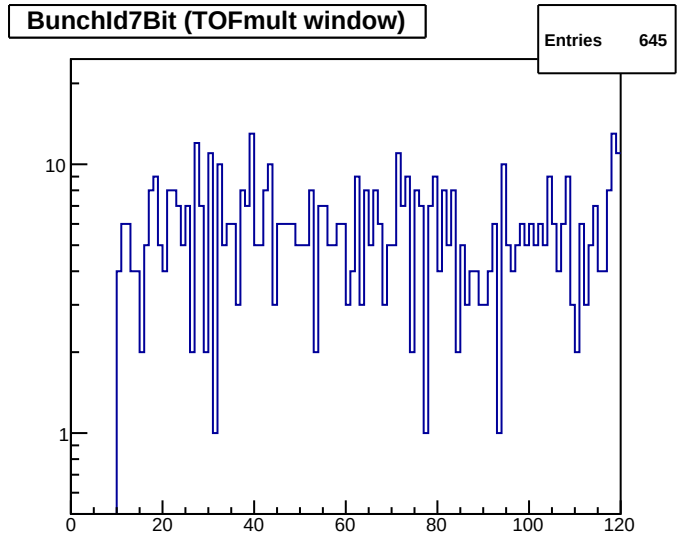

BunchId7Bit (VPD-TAC)
Entries 10190
10^2
10
1
0
20
40
60
80
100
120

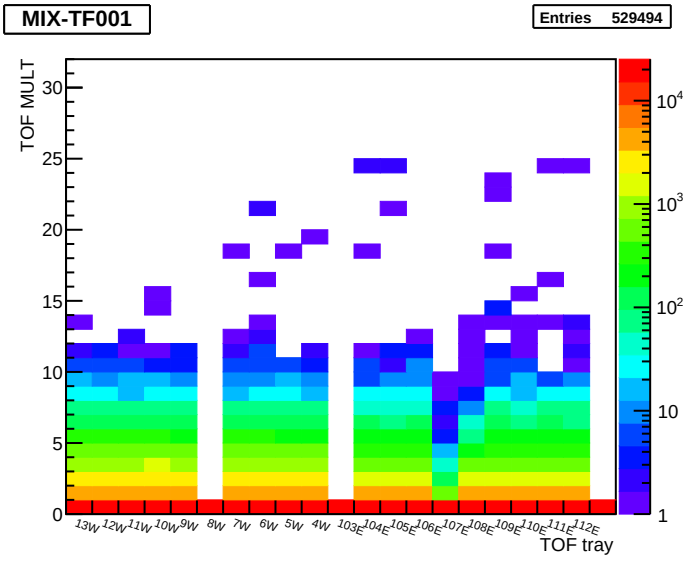

BunchId7Bit (ZDC-TAC)
Entries 36
1
0
20
40
60
80
100
120

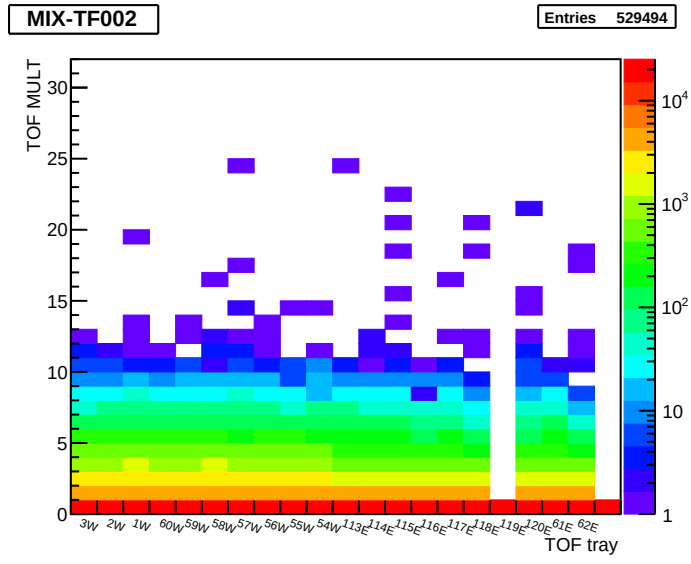

BunchId7Bit (EPD-TAC)
Entries 18069
10^2
10
1
0
20
40
60
80
100
120

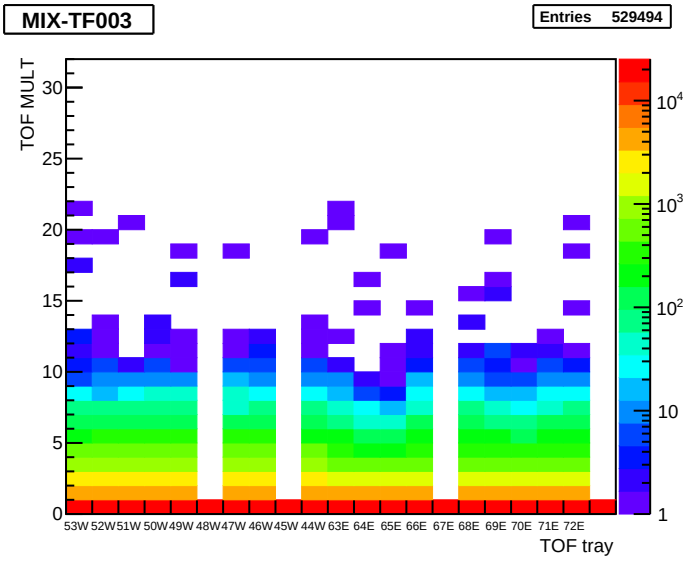

BunchId7Bit (BBC-TAC)
Entries 5485
10^2
10
1
0
20
40
60
80
100
120

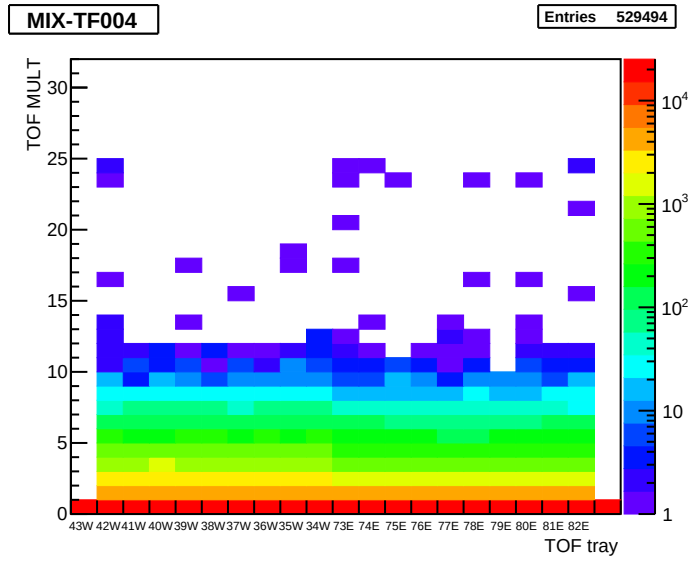

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

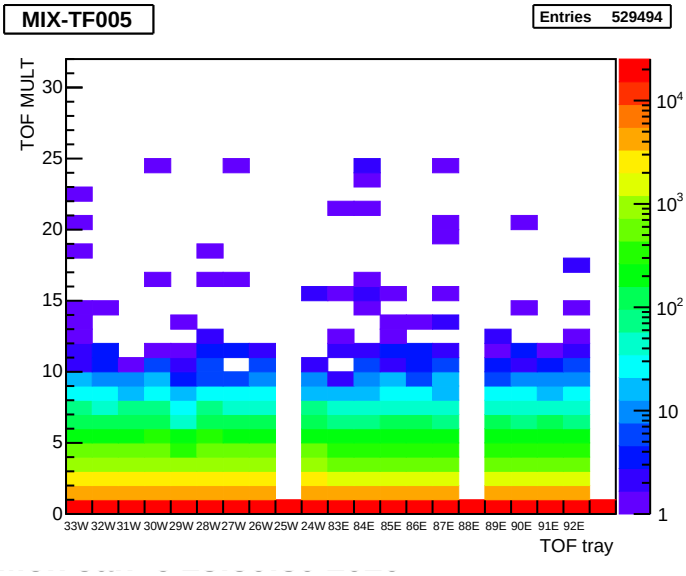

BunchId7Bit (TOFmult window)
Entries 645
10
1
0
20
40
60
80
100
120

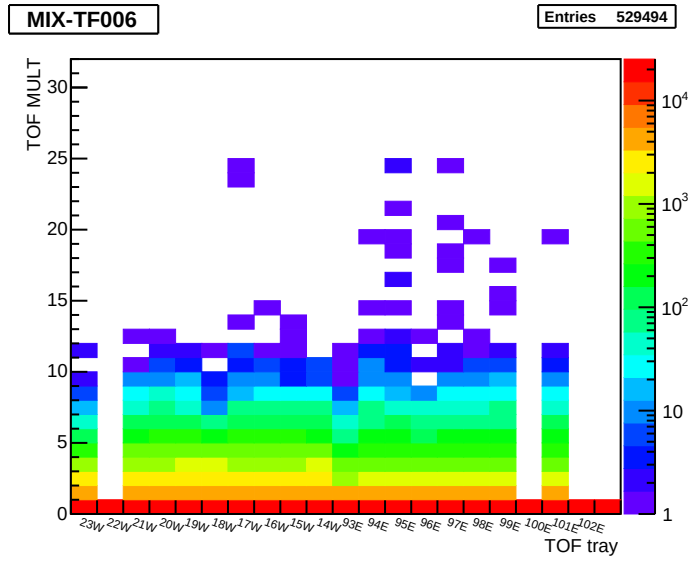

MIX-TF001
Entries 529494
TOF MULT
TOF tray

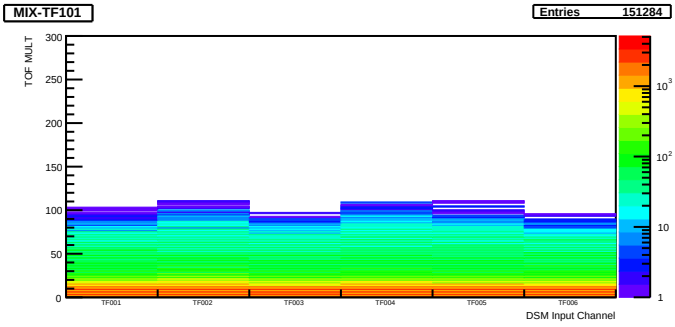

MIX-TF002
Entries 529494
TOF MULT
TOF tray

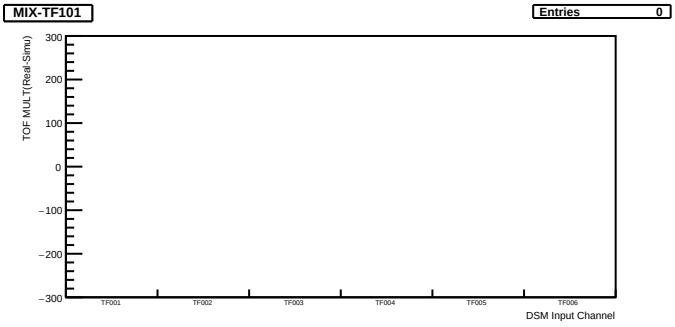

MIX-TF003
Entries 529494
TOF MULT
TOF tray

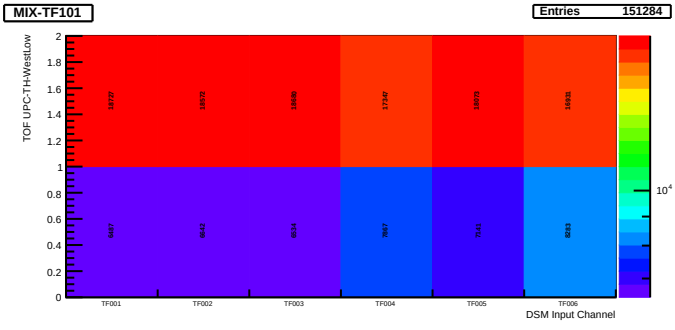

MIX-TF004
Entries 529494
TOF MULT
TOF tray

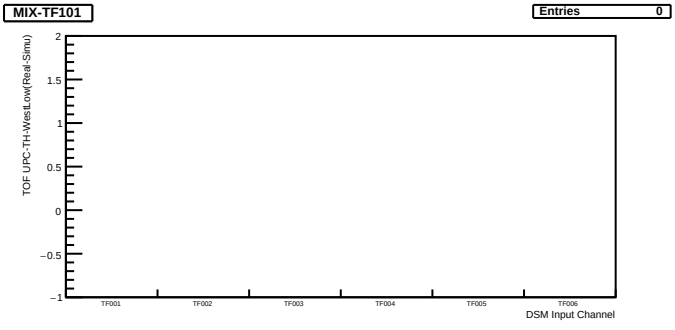

MIX-TF005
Entries 529494
TOF MULT
TOF tray

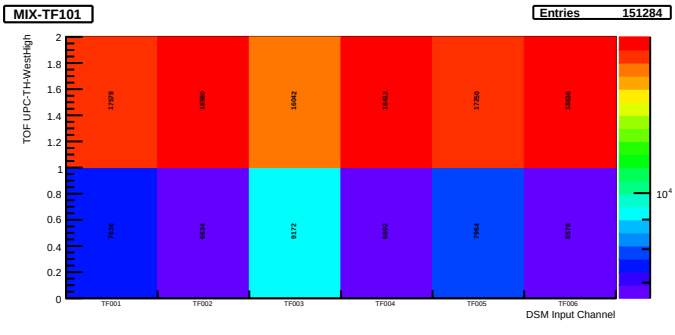

MIX-TF006
Entries 529494
TOF MULT
TOF tray

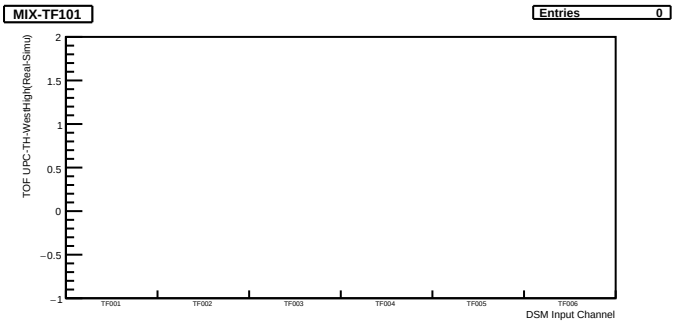

MIX-TF101
Entries 151284
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

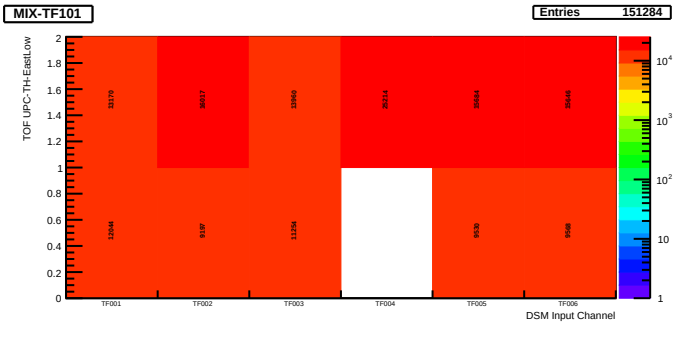

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

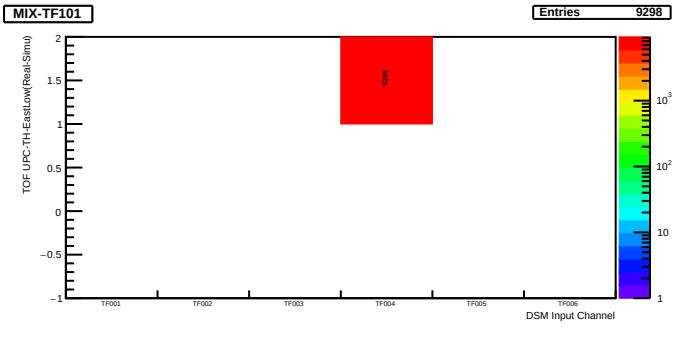

MIX-TF101
Entries 151284
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

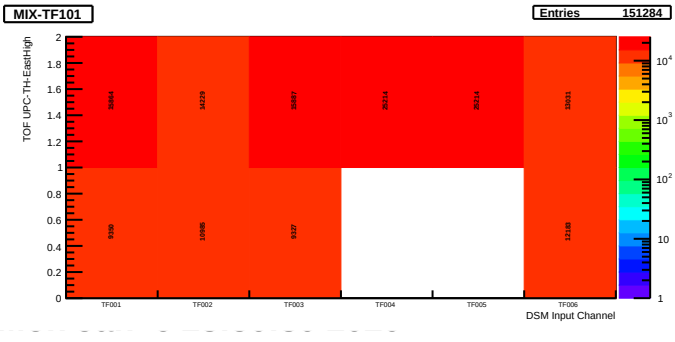

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

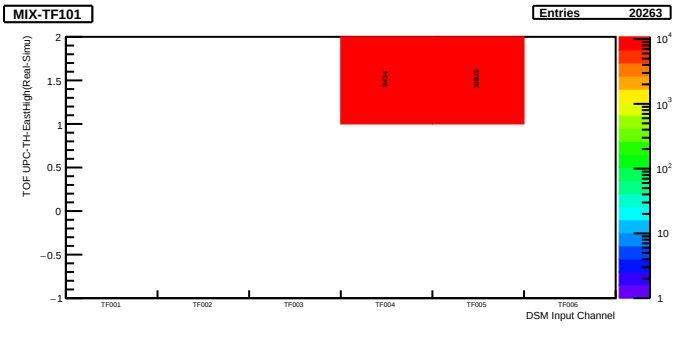

MIX-TF101
Entries 151284
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

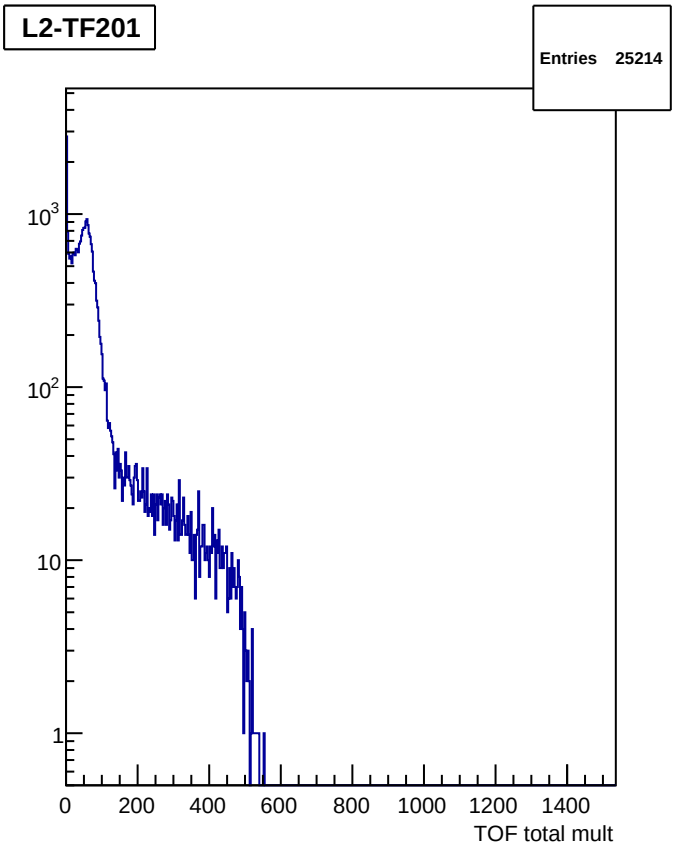

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

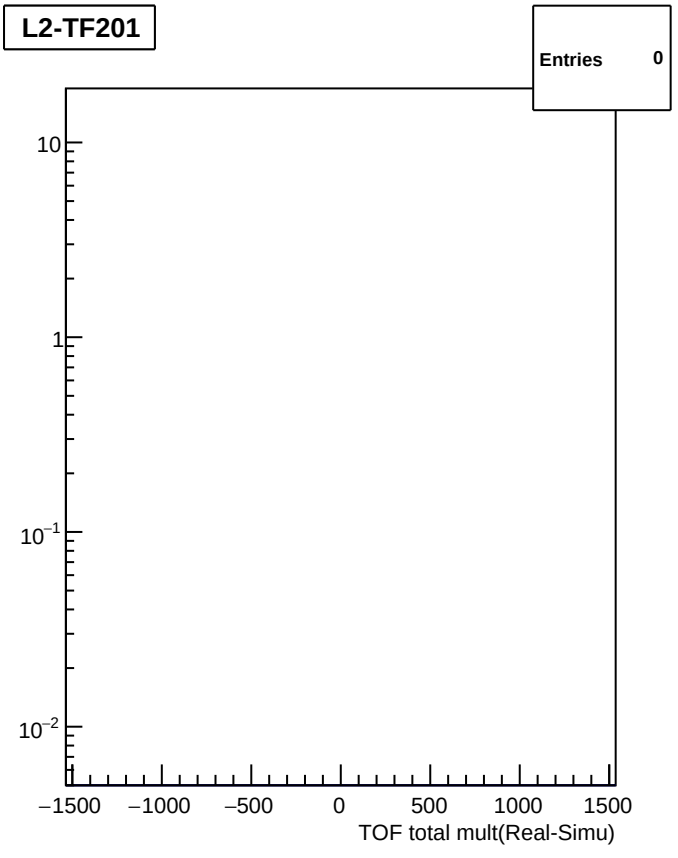

MIX-TF101
Entries 151284
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

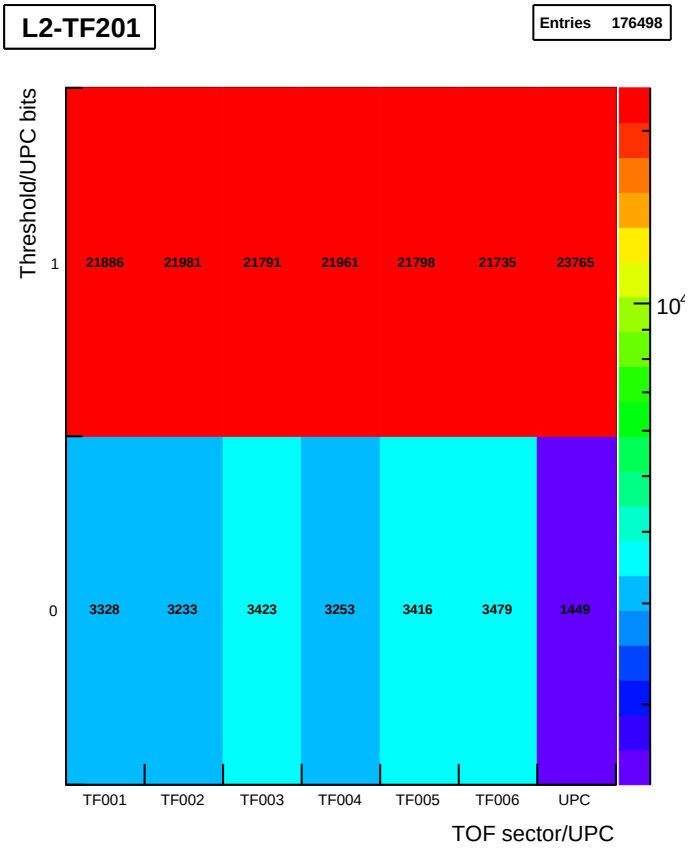

MIX-TF101
Entries 9298
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

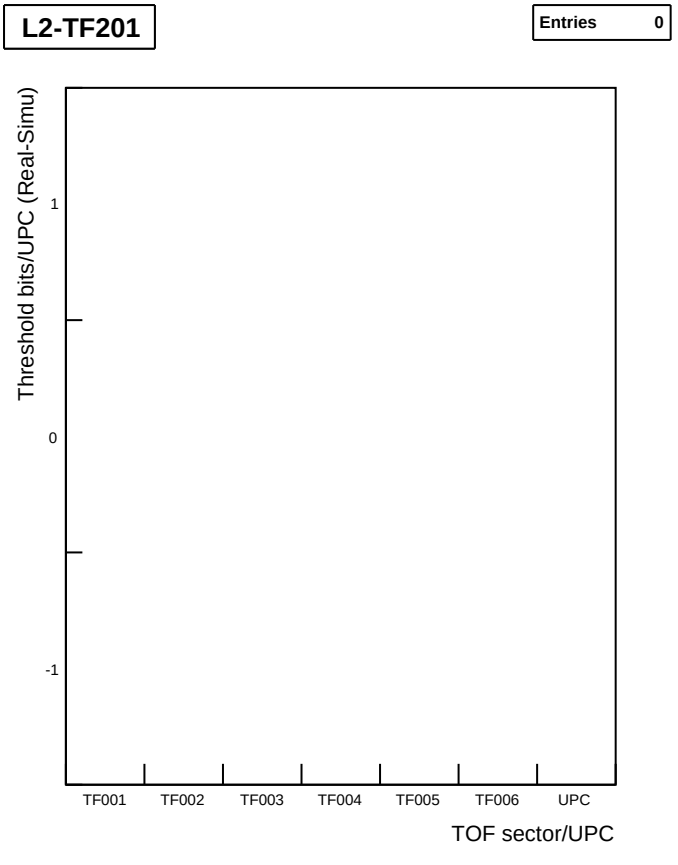

MIX-TF101
Entries 151284
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

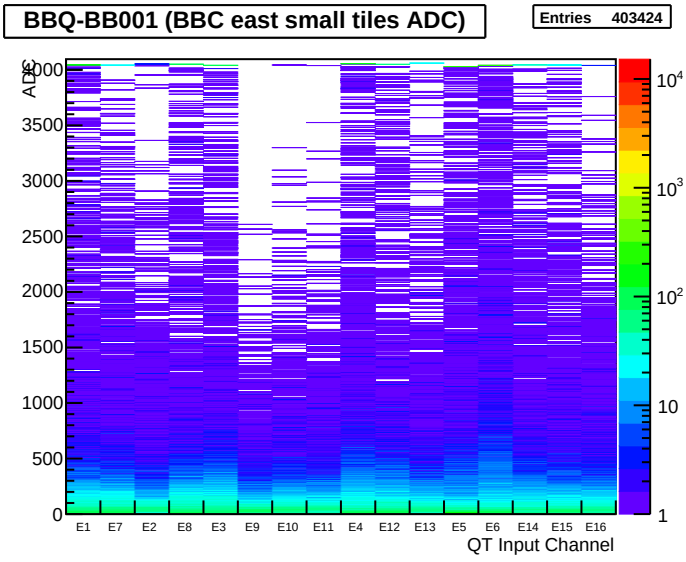

MIX-TF101
Entries 20263
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

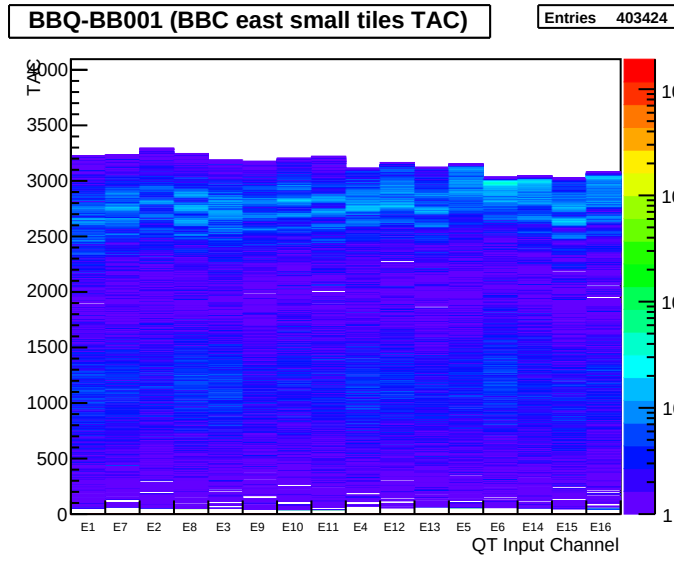

L2-TF201
Entries 25214
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

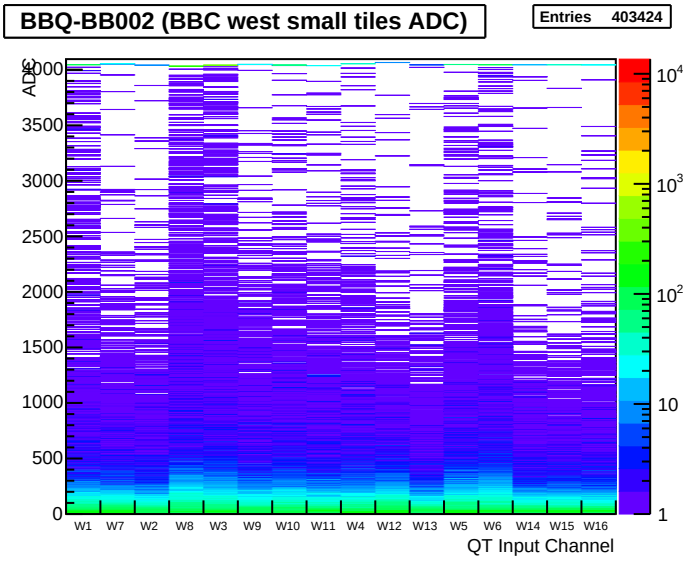

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

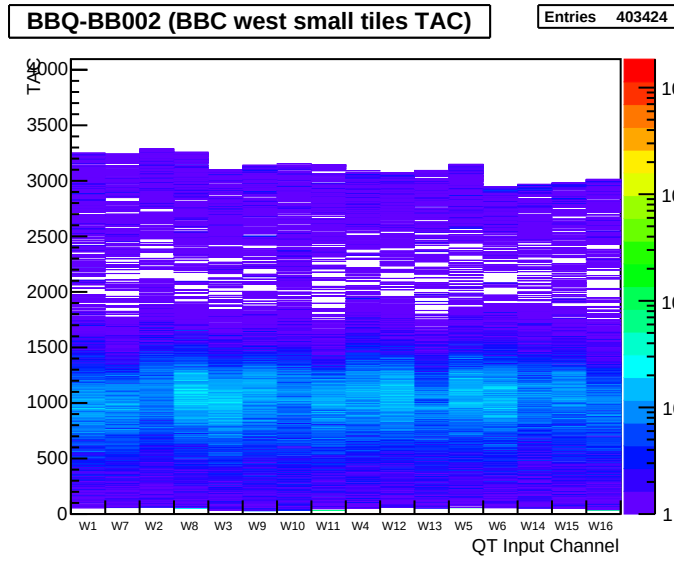

L2-TF201
Entries 176498
Threshold/UPC bits
1
0
21886
21981
21791
21961
21798
21735
23765
3328
3233
3423
3253
3416
3479
1449
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

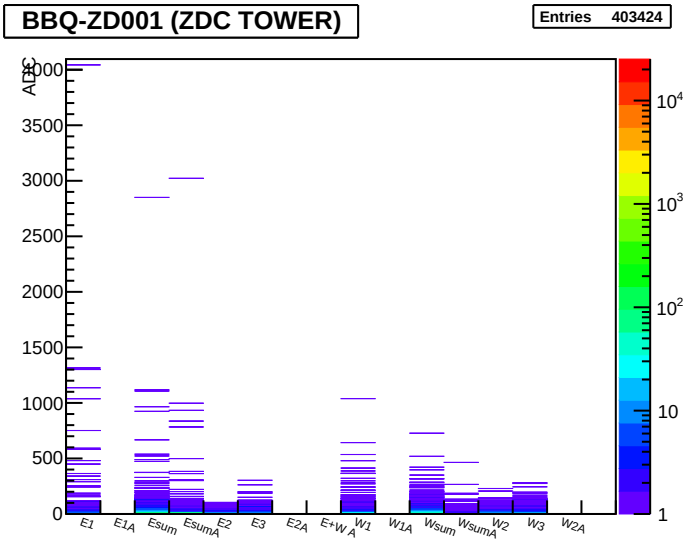

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

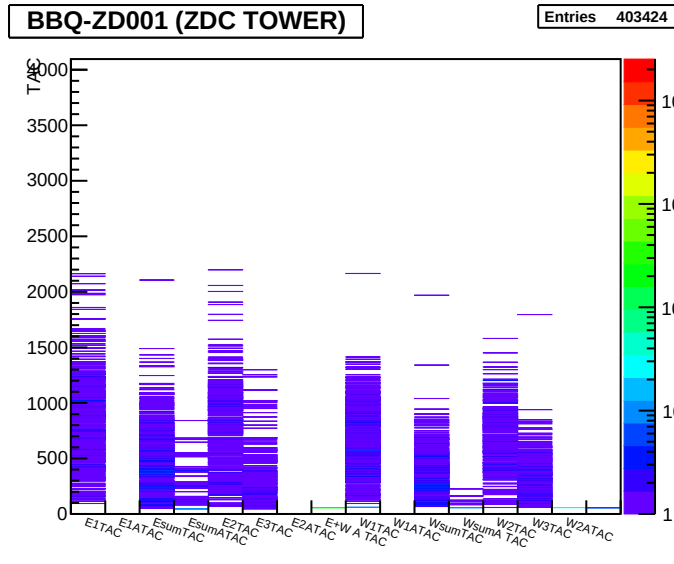

BBQ-BB001 (BBC east small tiles ADC)
Entries 403424
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

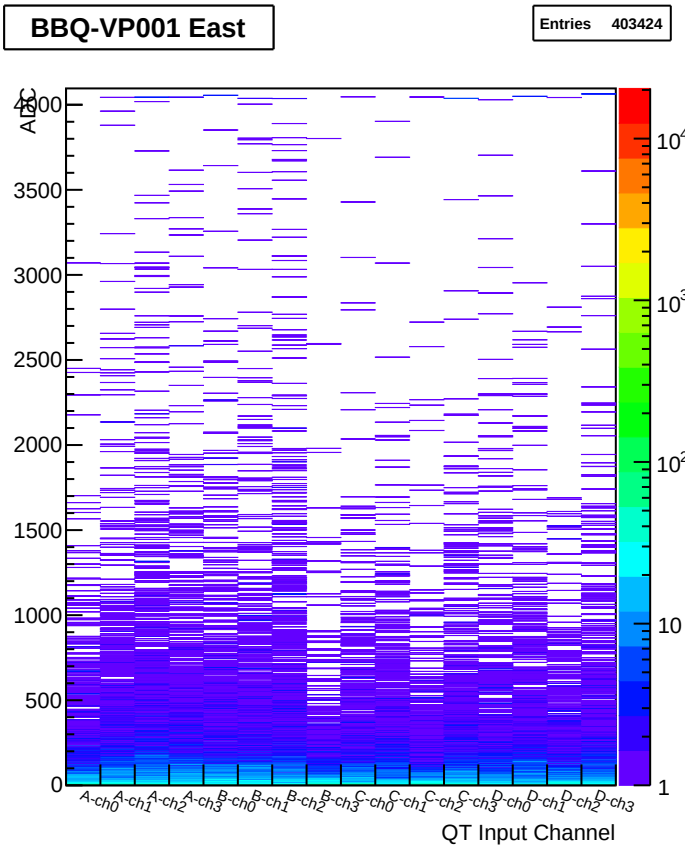

BBQ-BB001 (BBC east small tiles TAC)
Entries 403424
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

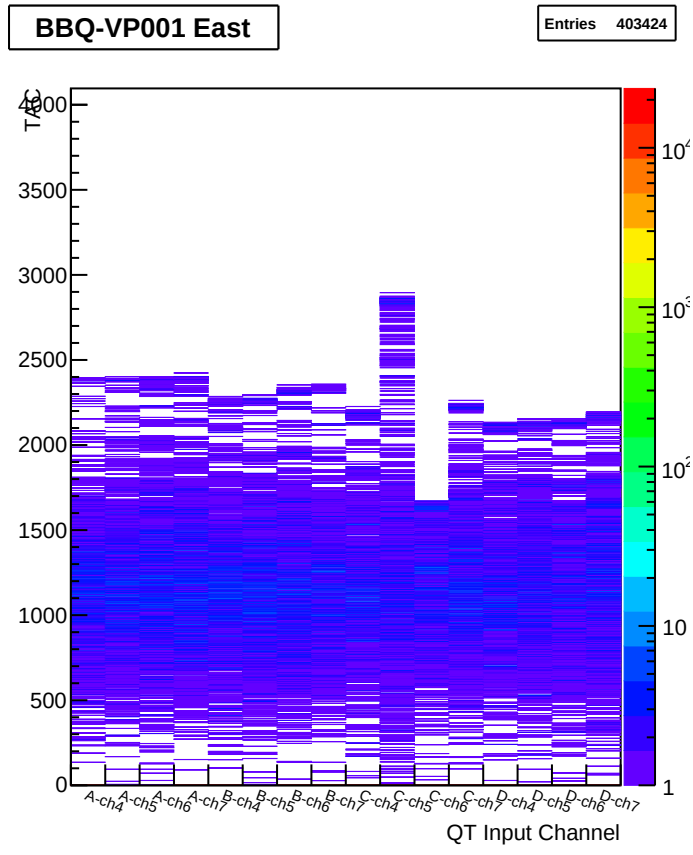

BBQ-BB002 (BBC west small tiles ADC)
Entries 403424
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

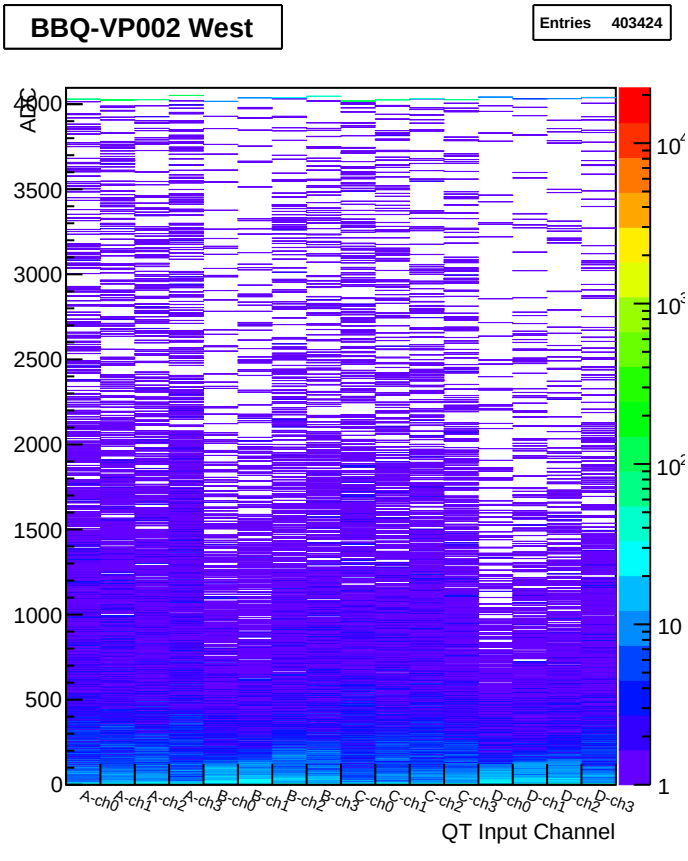

BBQ-BB002 (BBC west small tiles TAC)
Entries 403424
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

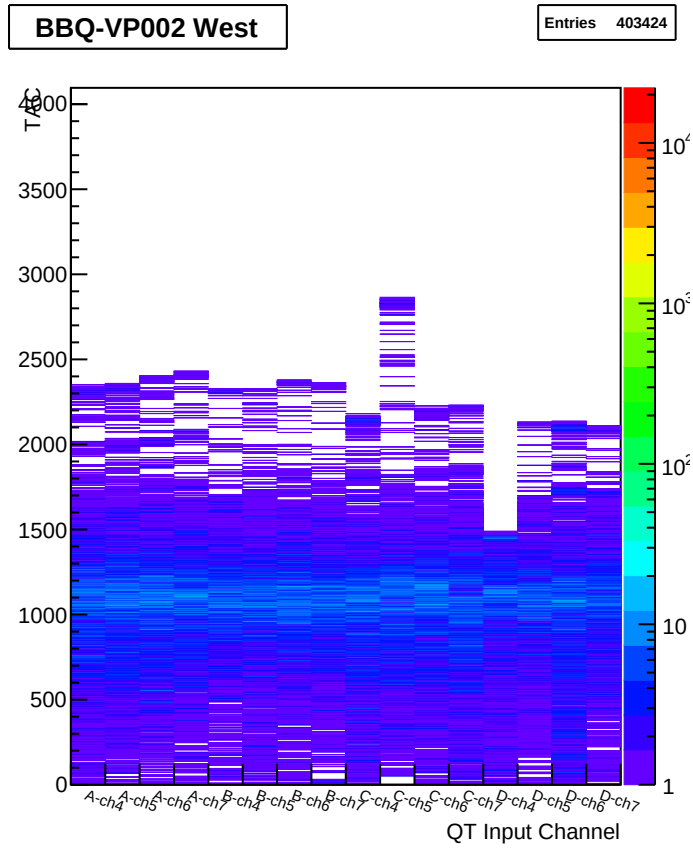

BBQ-ZD001 (ZDC TOWER)
Entries 403424
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

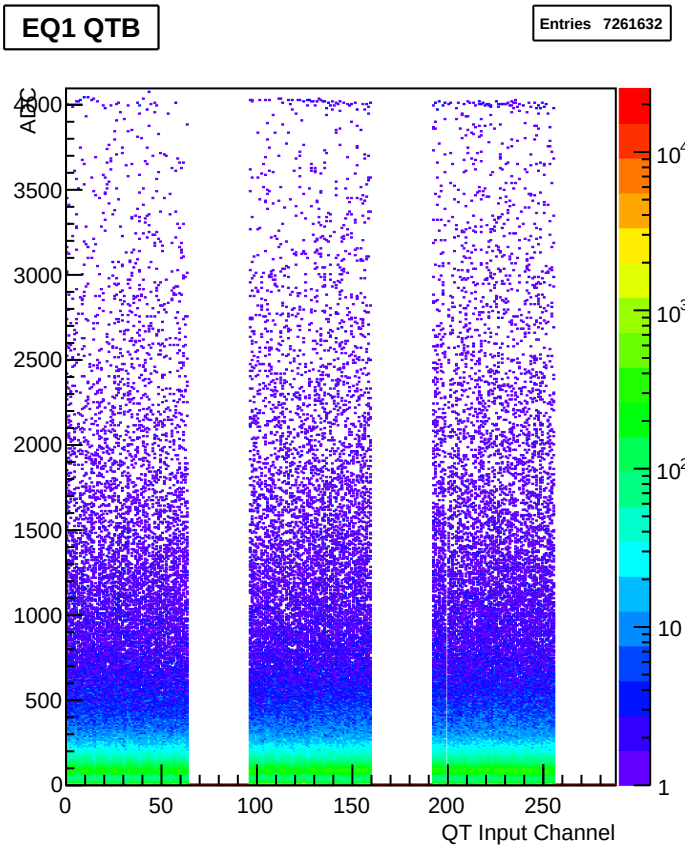

BBQ-ZD001 (ZDC TOWER)
Entries 403424
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

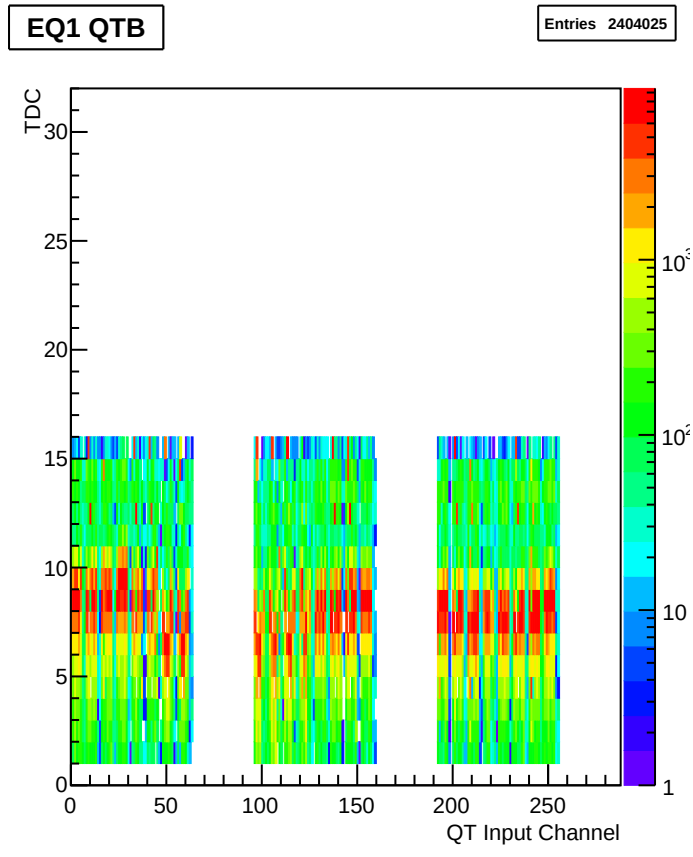

BBQ-VP001 East
Entries 403424
ADC
QT Input Channel

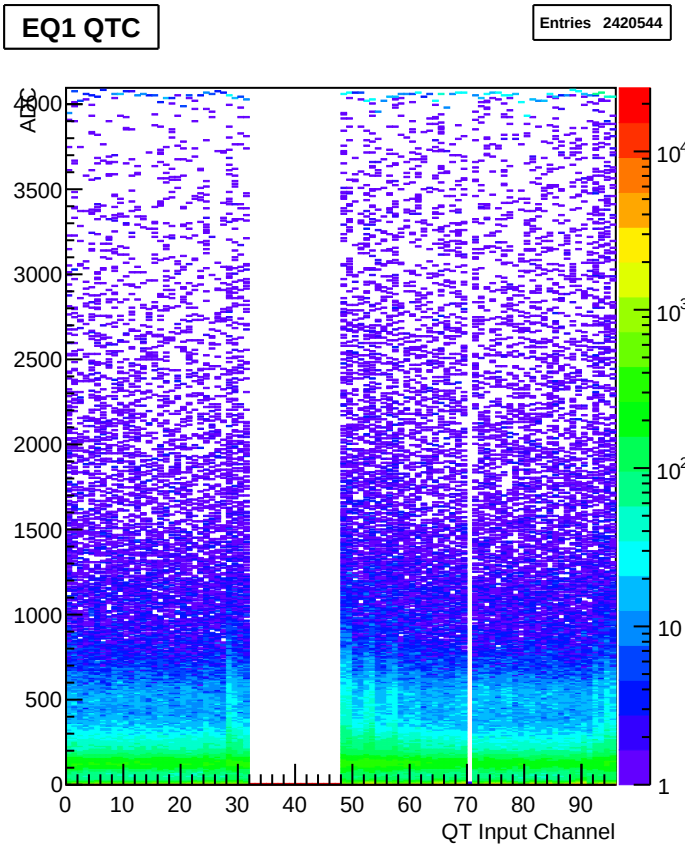

BBQ-VP001 East
Entries 403424
TADC
QT Input Channel

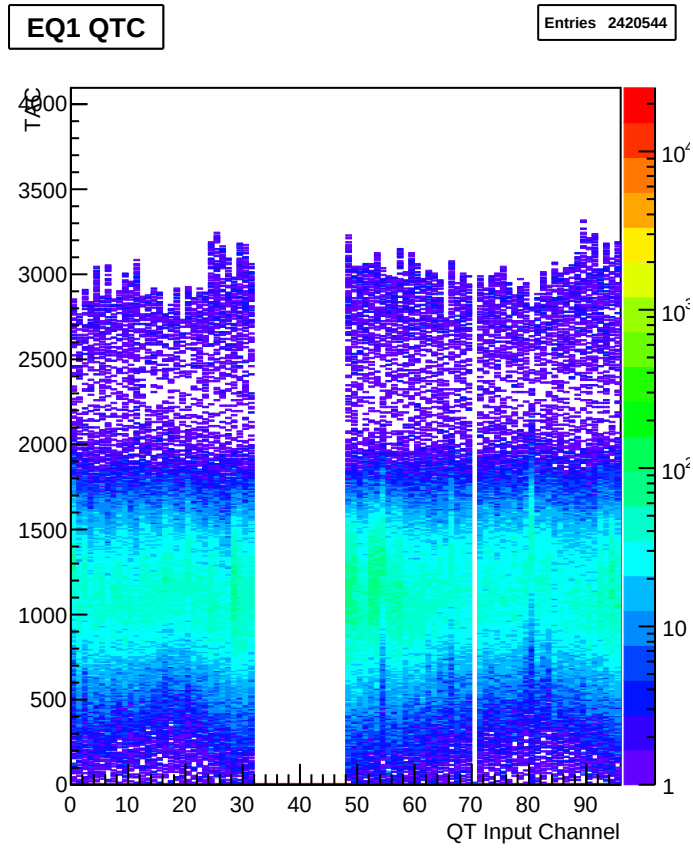

BBQ-VP002 West
Entries 403424
ADC
QT Input Channel

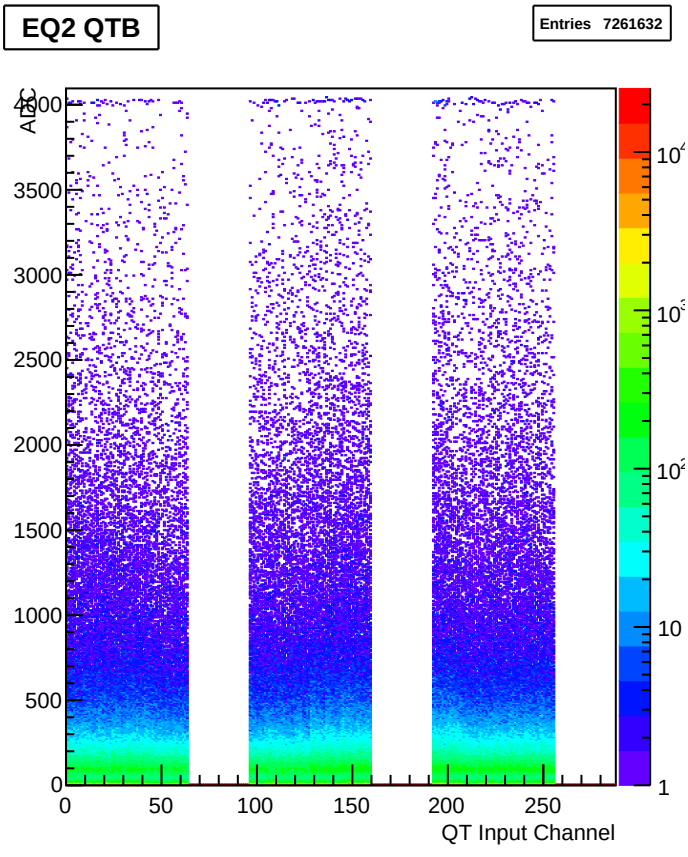

BBQ-VP002 West
Entries 403424
TADC
QT Input Channel

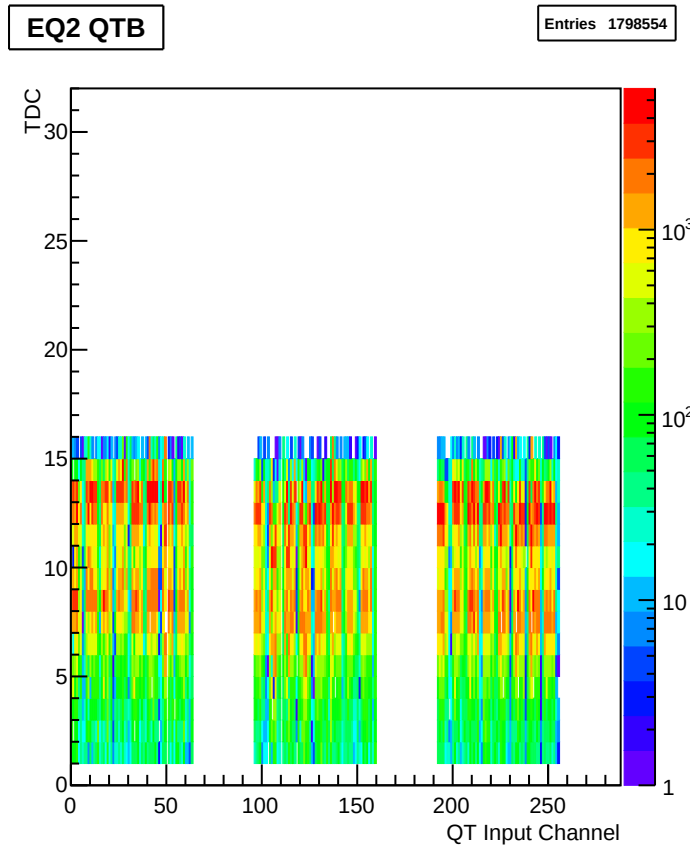

EQ1 QTB
Entries 7261632
ADC
QT Input Channel

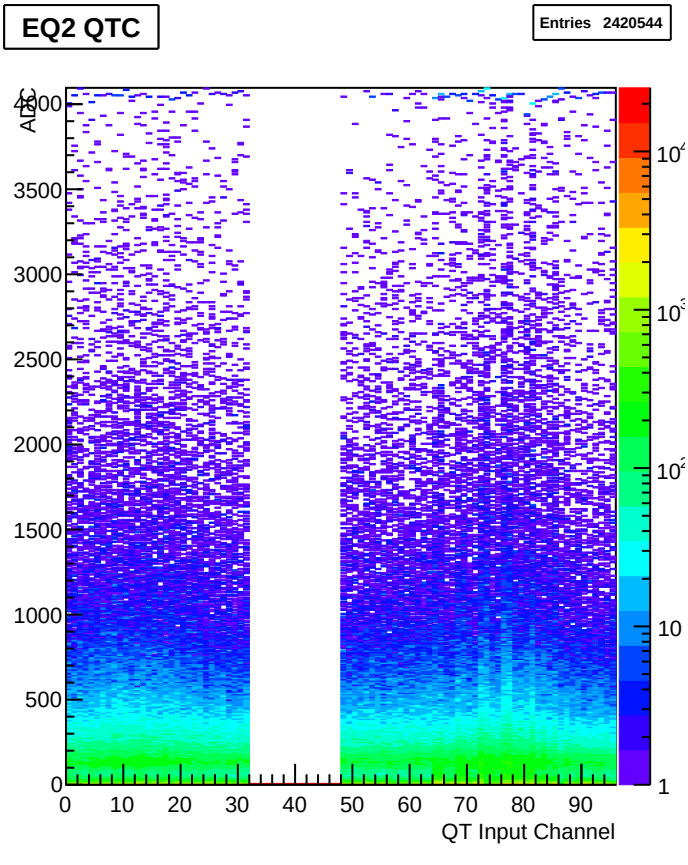

EQ1 QTB
Entries 2404025
TDC
QT Input Channel

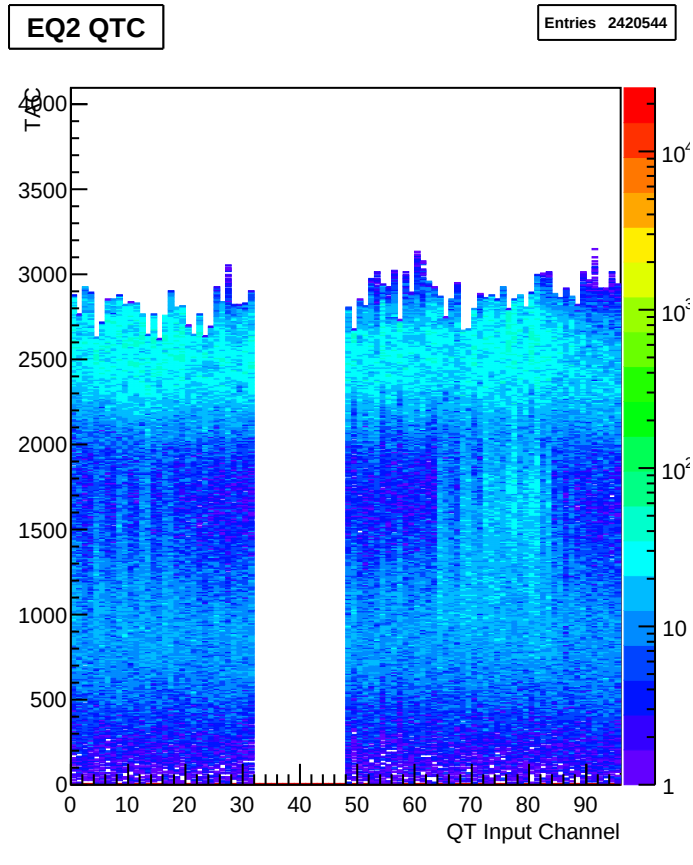

EQ1 QTC
Entries 2420544
ADC
QT Input Channel

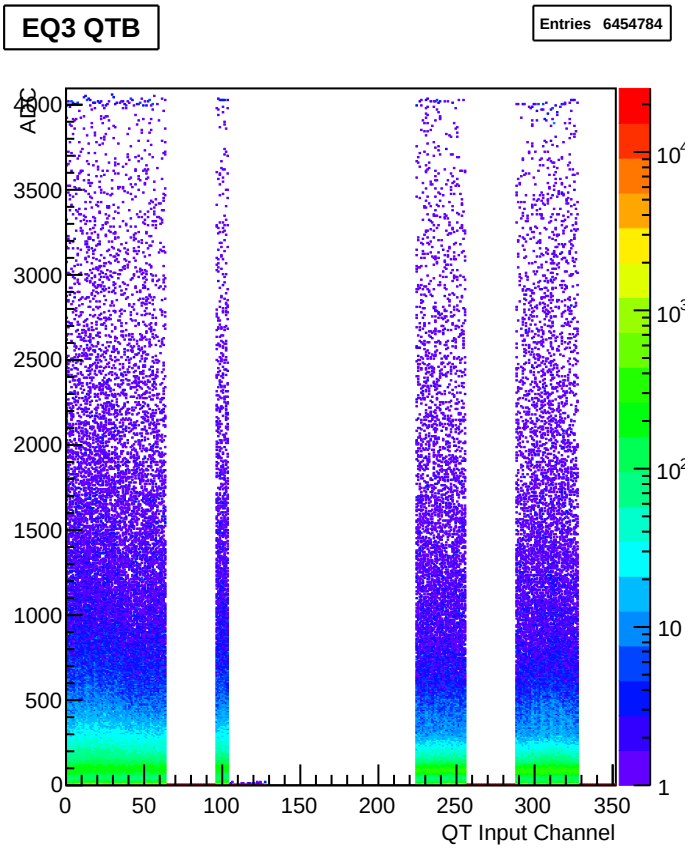

EQ1 QTC
Entries 2420544
TADC
QT Input Channel

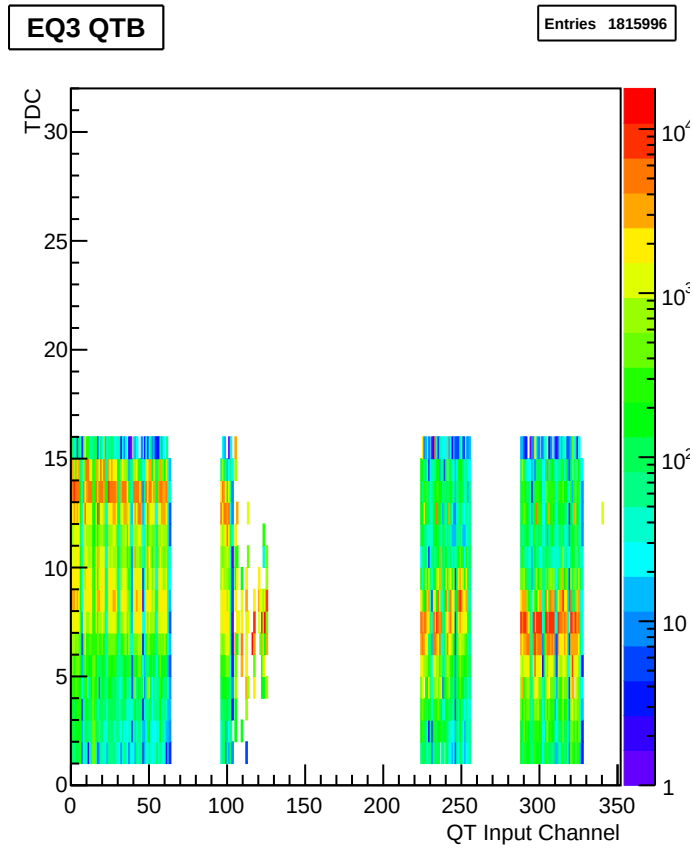

EQ2 QTB
Entries 7261632
ADC
QT Input Channel

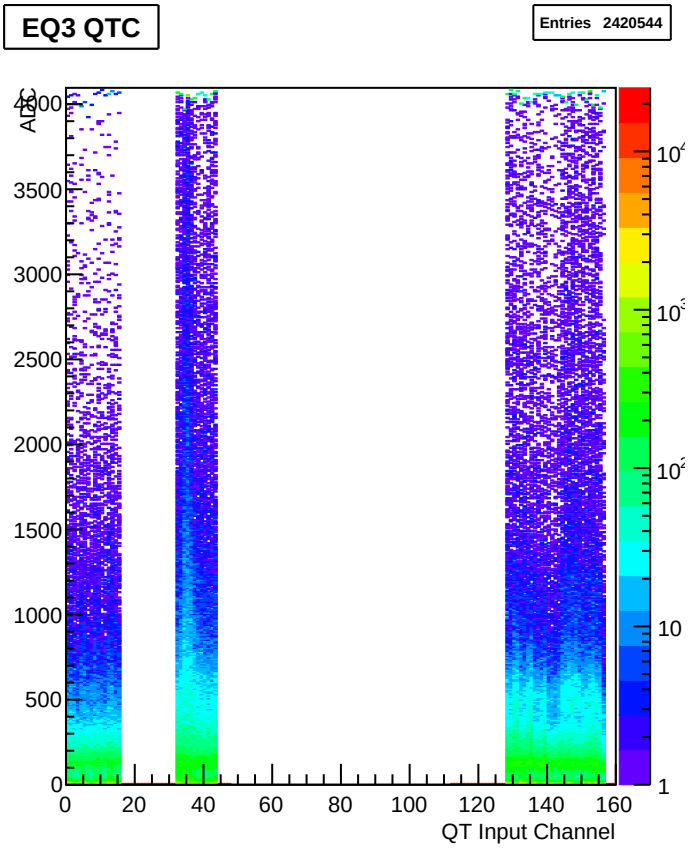

EQ2 QTB
Entries 1798554
TDC
QT Input Channel

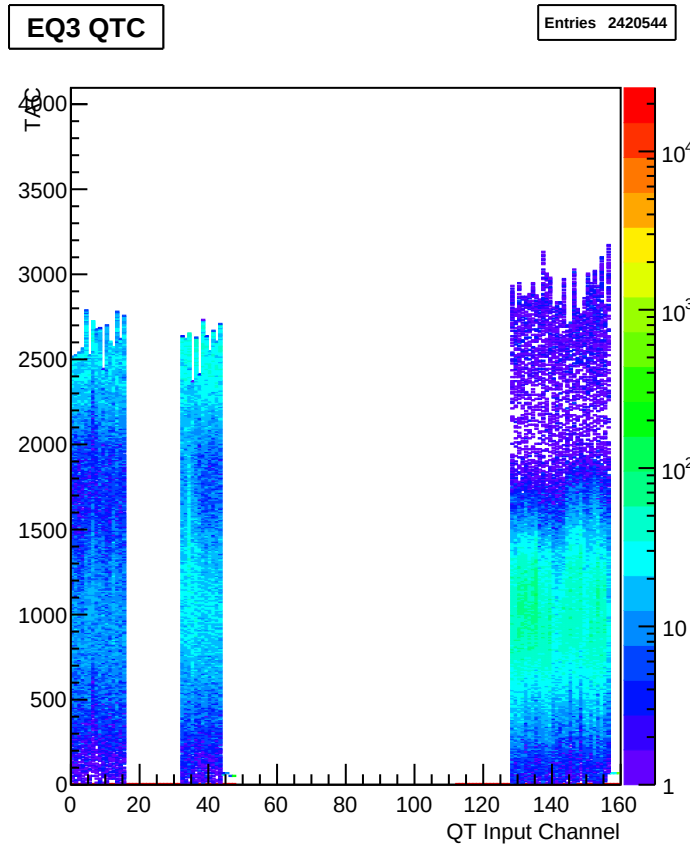

EQ2 QTC
Entries 2420544
ADC
QT Input Channel

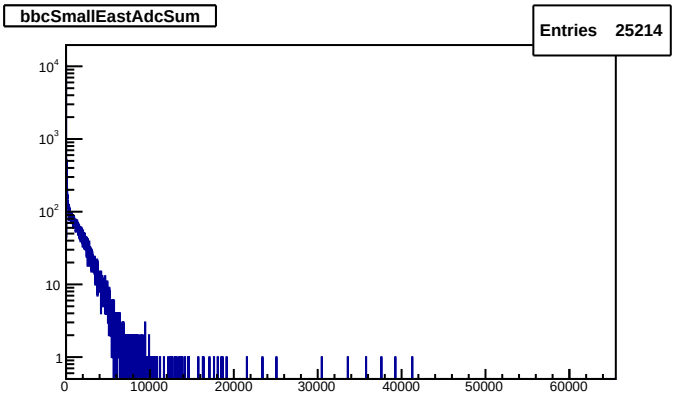

EQ2 QTC
Entries 2420544
TADC
QT Input Channel

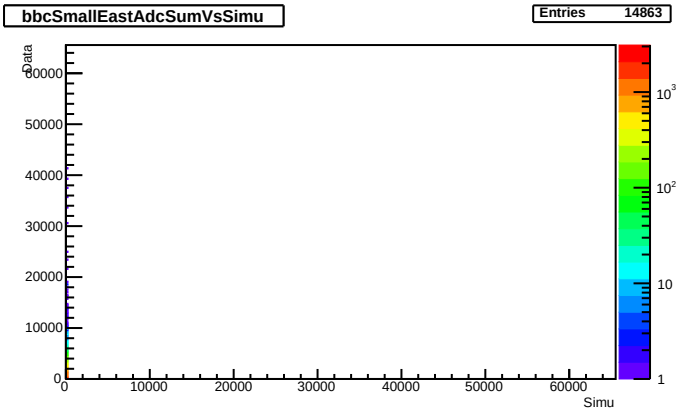

EQ3 QTB
Entries 6454784
ADC
QT Input Channel

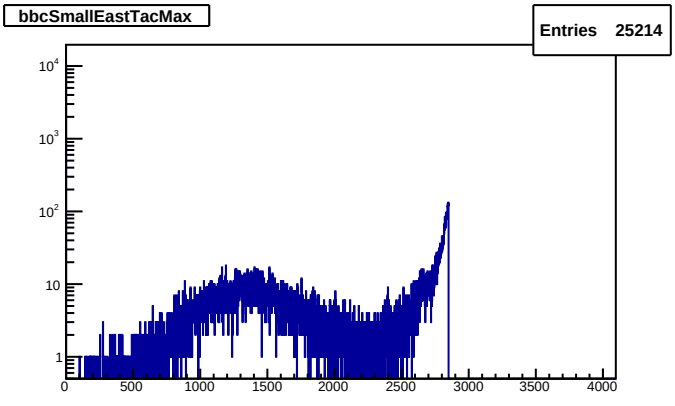

EQ3 QTB
Entries 1815996
TDC
QT Input Channel

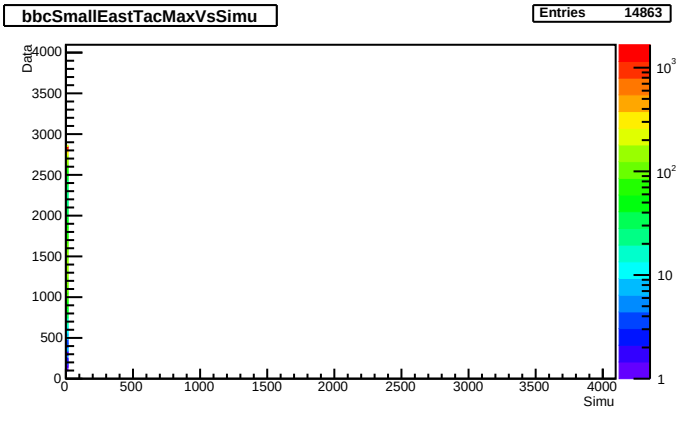

EQ3 QTC
Entries 2420544
ADC
QT Input Channel

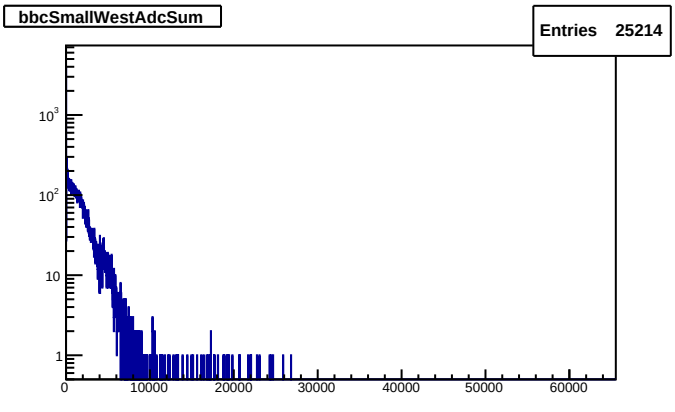

EQ3 QTC
Entries 2420544
TADC
QT Input Channel

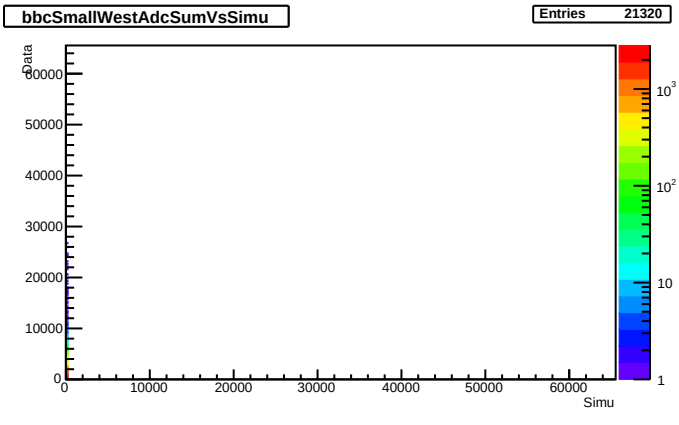

bbcSmallEastAdcSum
Entries 25214

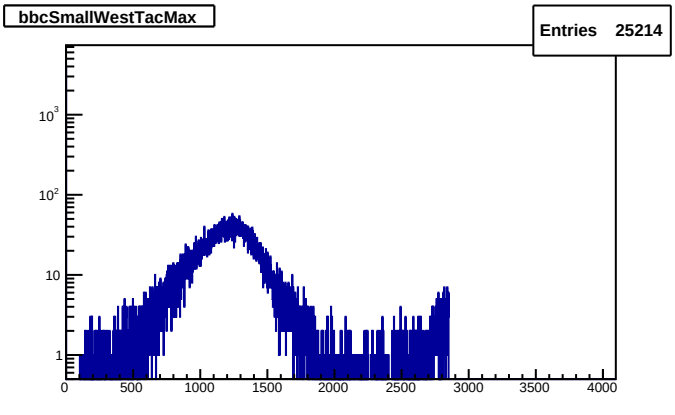

bbcSmallEastAdcSumVsSimu
Entries 14863
Data
Simu

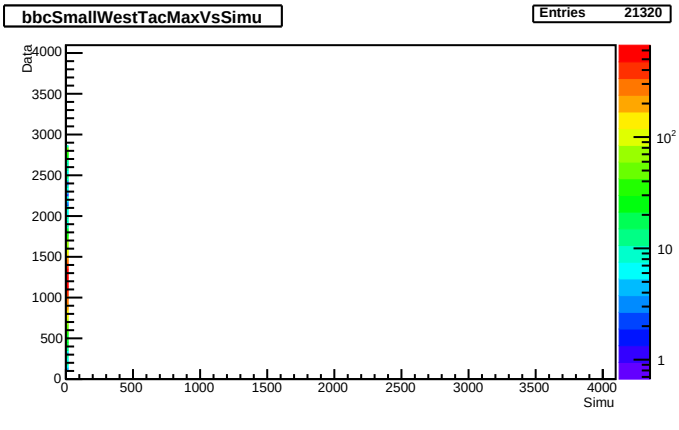

bbcSmallEastTacMax
Entries 25214

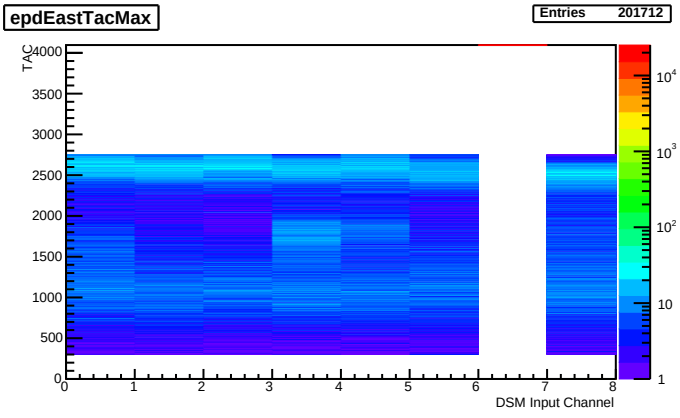

bbcSmallEastTacMaxVsSimu
Entries 14863
Data
Simu

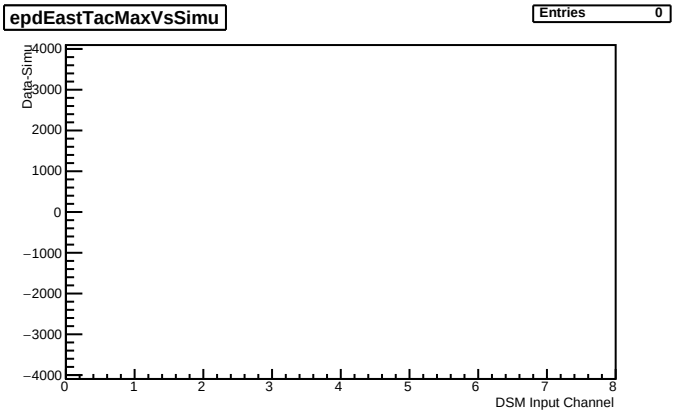

bbcSmallWestAdcSum
Entries 25214

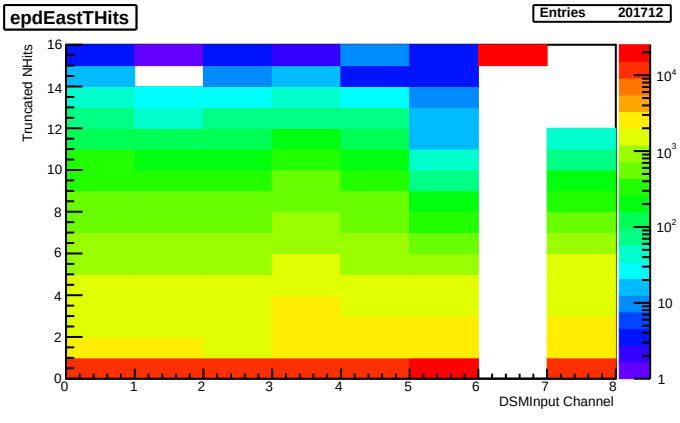

bbcSmallWestAdcSumVsSimu
Entries 21320
Data
Simu

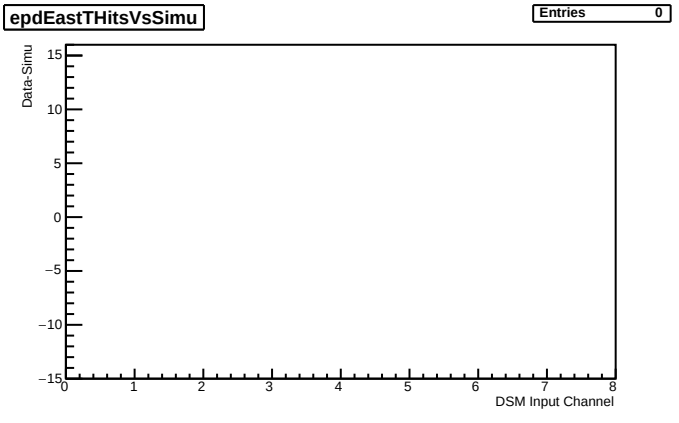

bbcSmallWestTacMax
Entries 25214

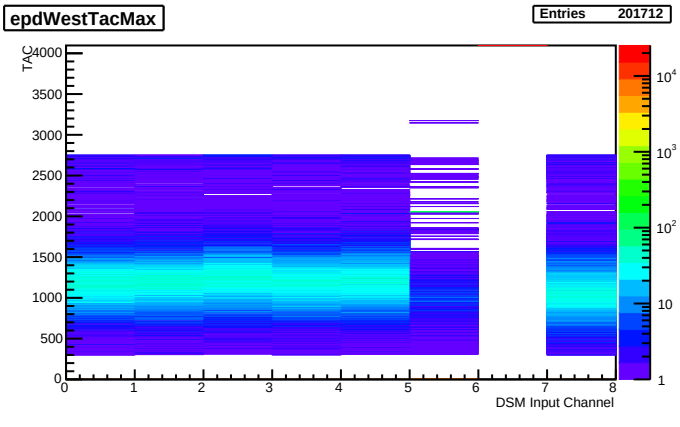

bbcSmallWestTacMaxVsSimu
Entries 21320
Data
Simu

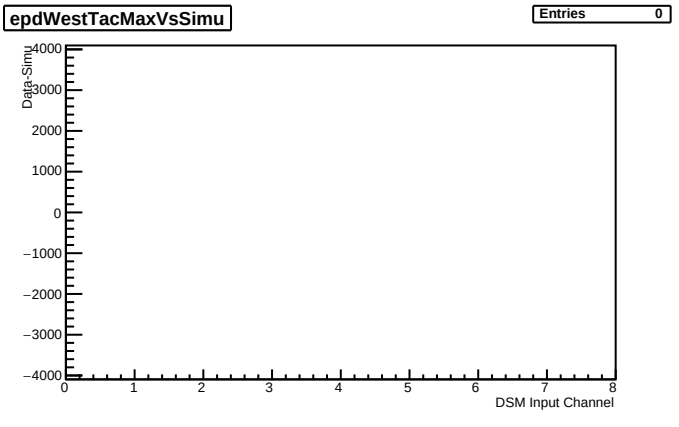

epdEastTacMax
Entries 201712
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 201712
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 201712
TAC
DSM Input Channel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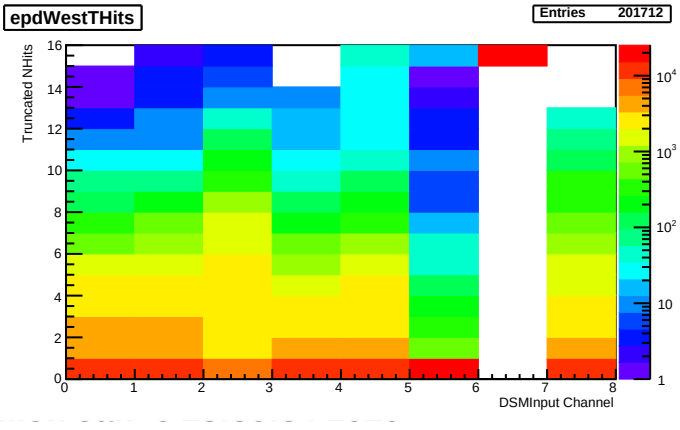
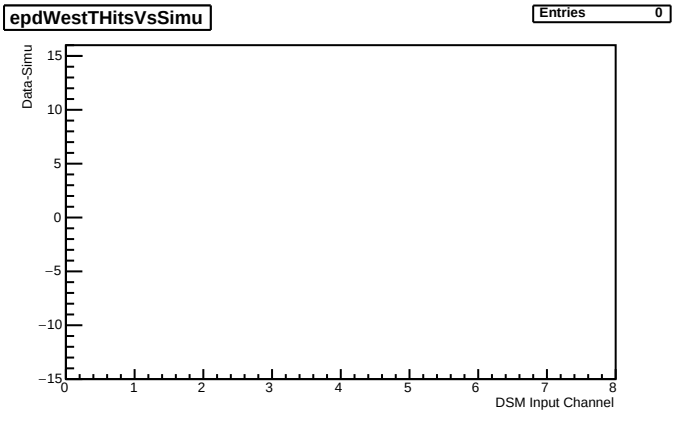
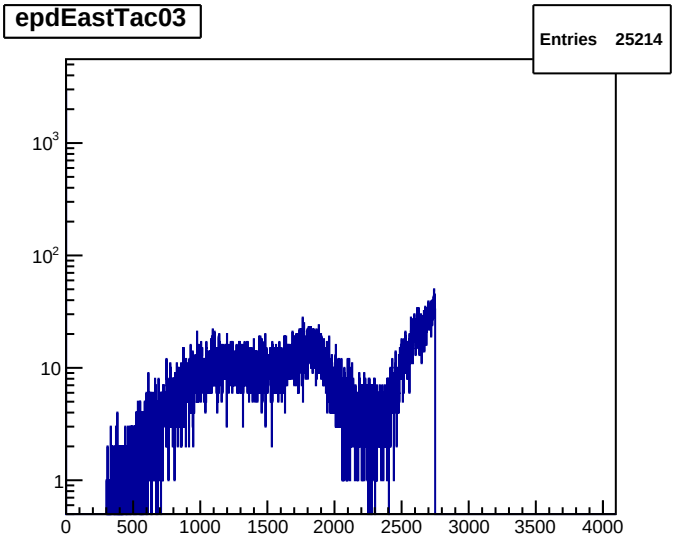
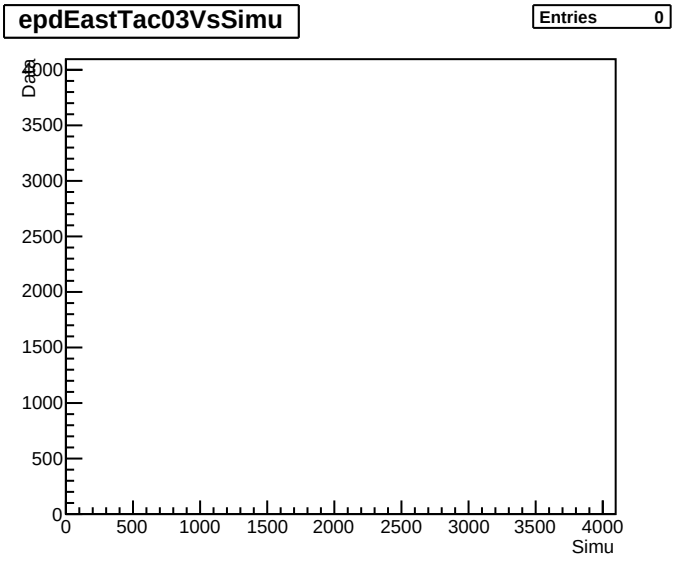
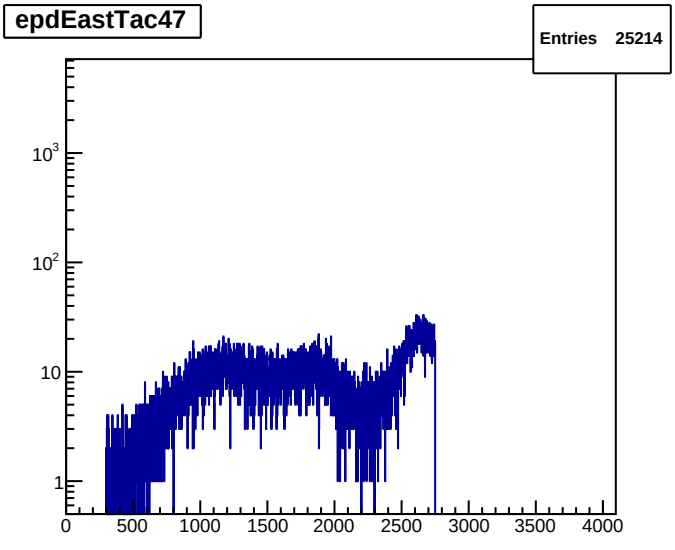
Entries 0
Data-Simu
DSM Input Channel

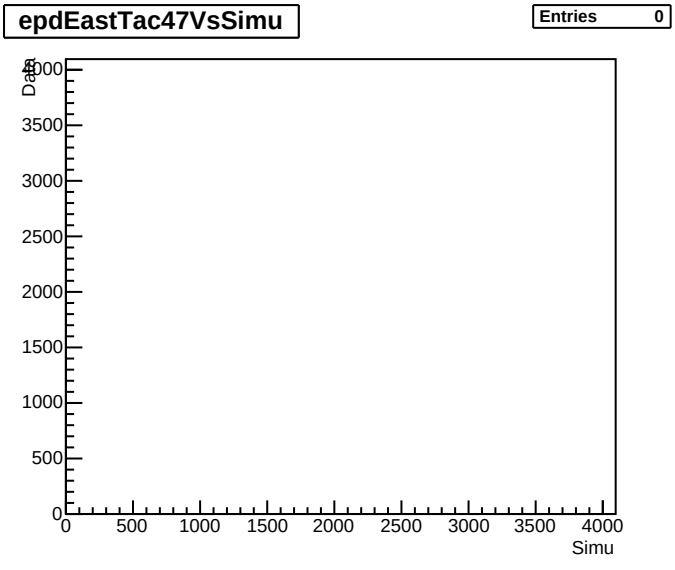

epdWestTHits
Entries 201712
Truncated NHits
DSMInput Channel

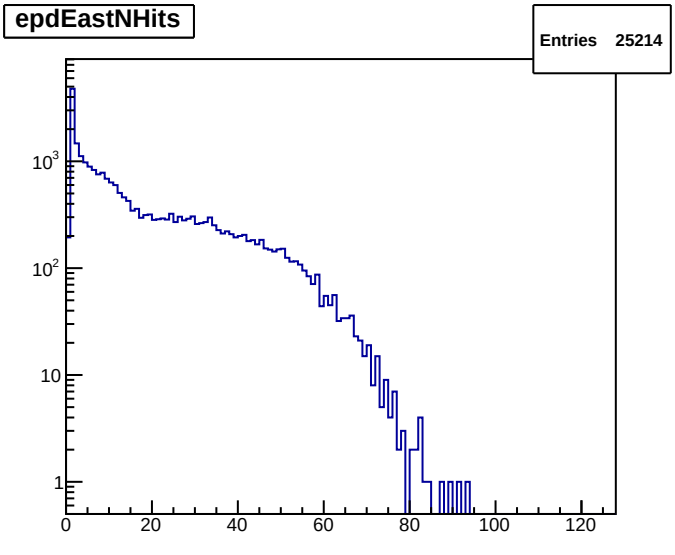

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

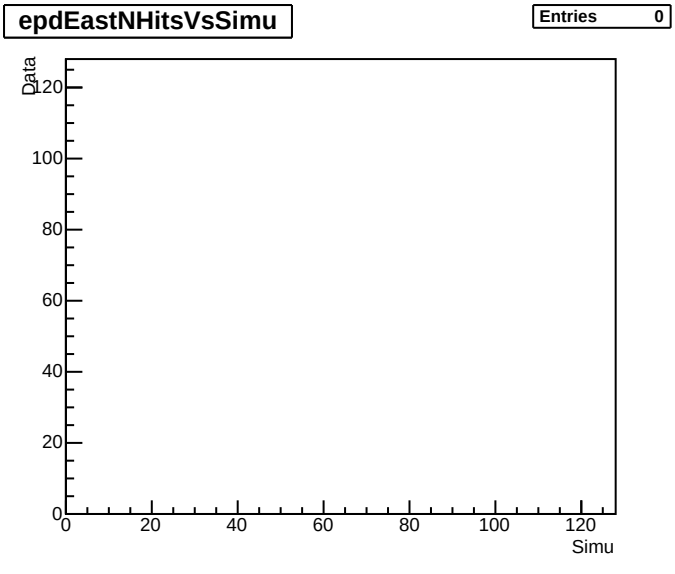

epdEastTac03
Entries 25214

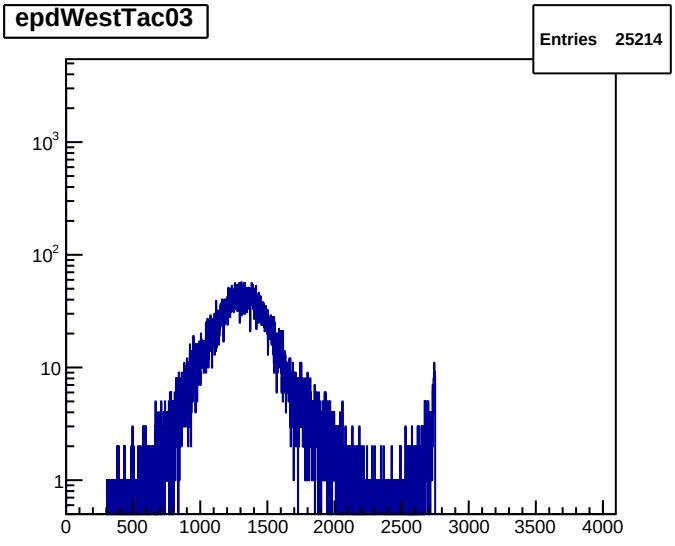

epdEastTac03VsSimu
Entries 0
Data
Simu

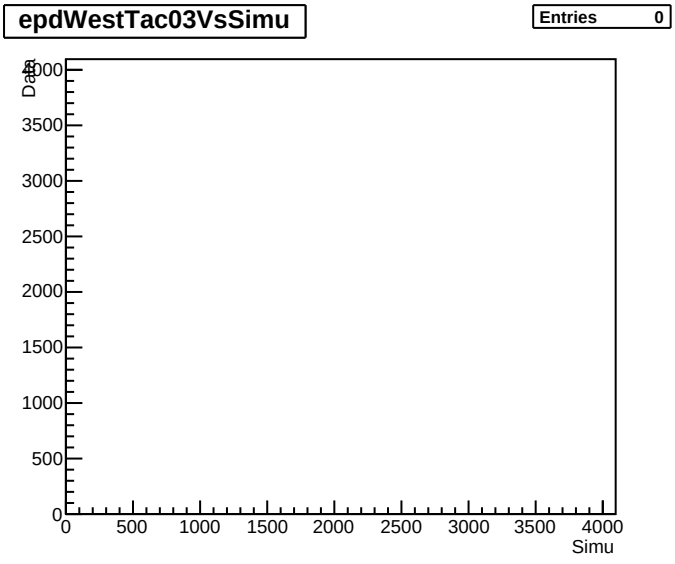

epdEastTac47
Entries 25214

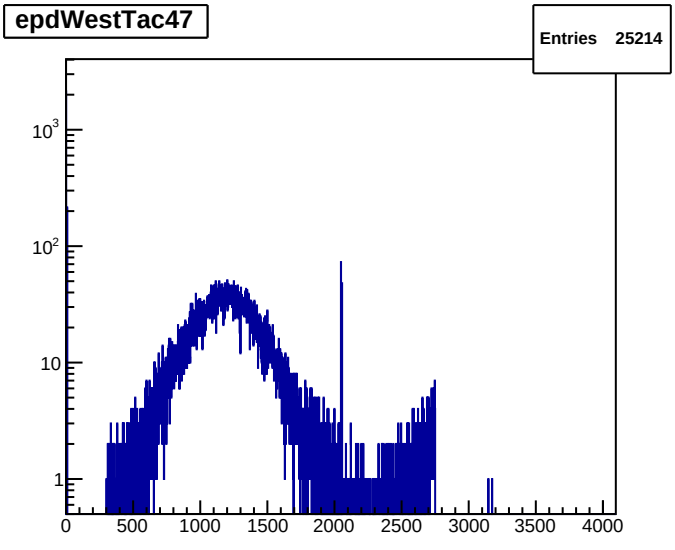

epdEastTac47VsSimu
Entries 0
Data
Simu

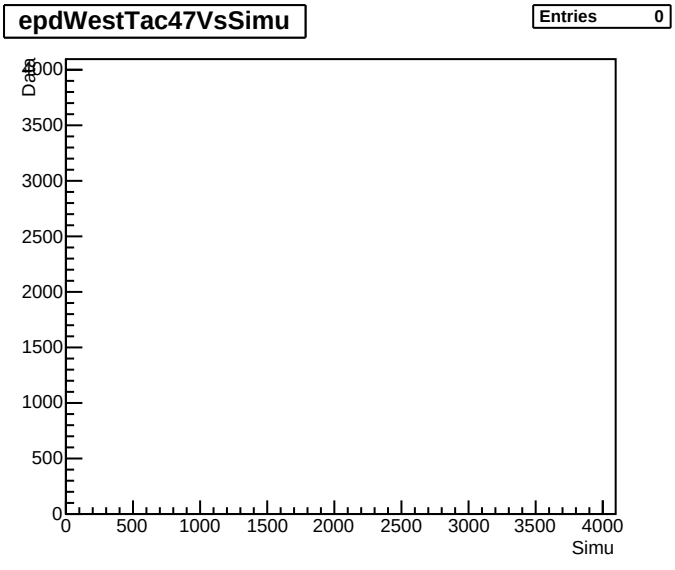

epdEastNHits
Entries 25214

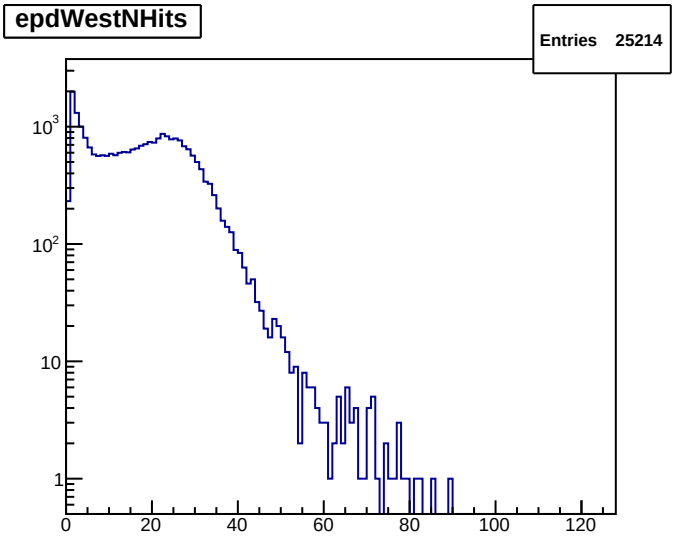

epdEastNHitsVsSimu
Entries 0
Data
Simu

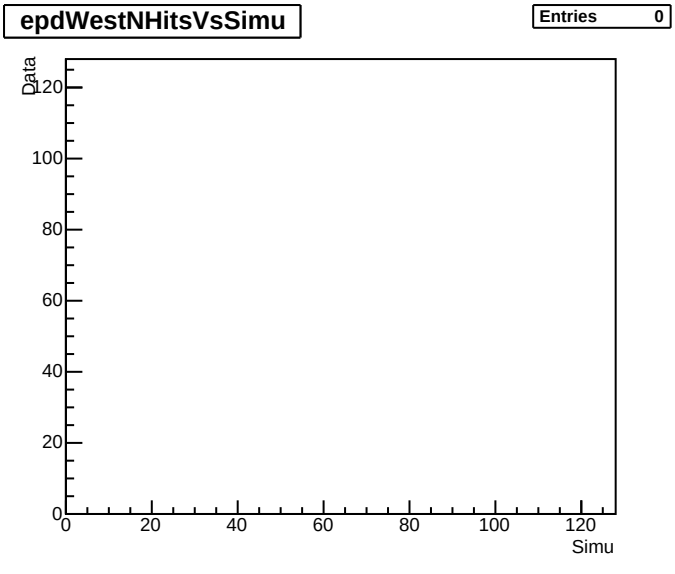

epdWestTac03
Entries 25214

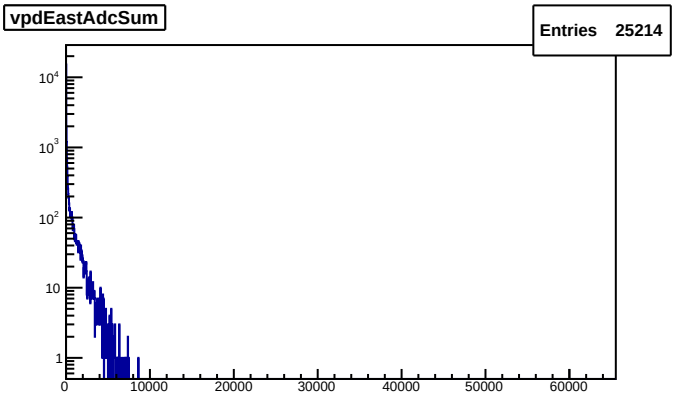

epdWestTac03VsSimu
Entries 0
Data
Simu

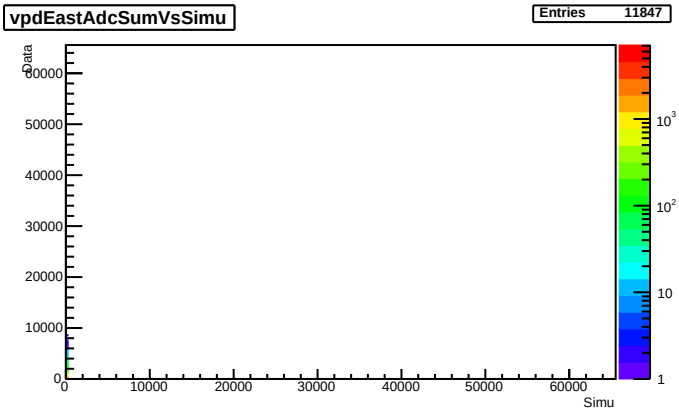

epdWestTac47
Entries 25214

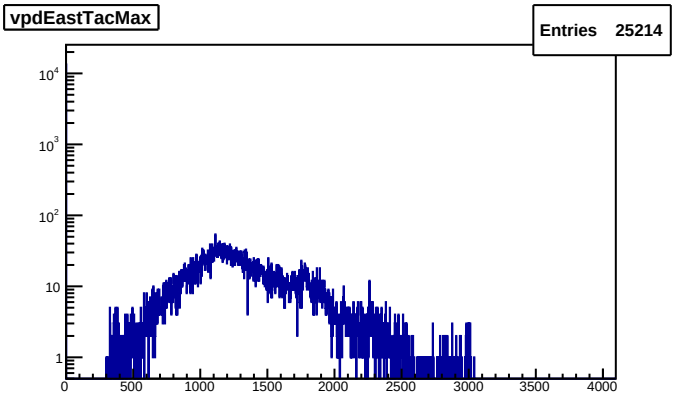

epdWestTac47VsSimu
Entries 0
Data
Simu

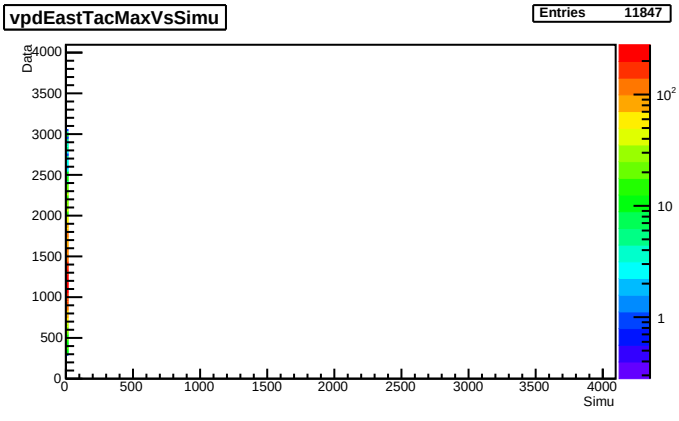

epdWestNHits
Entries 25214

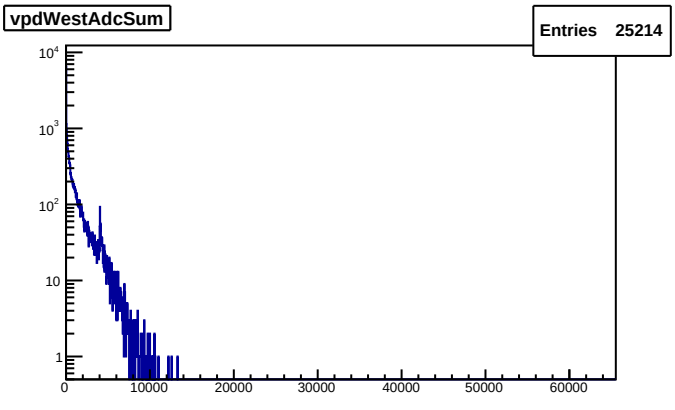

epdWestNHitsVsSimu
Entries 0
Data
Simu

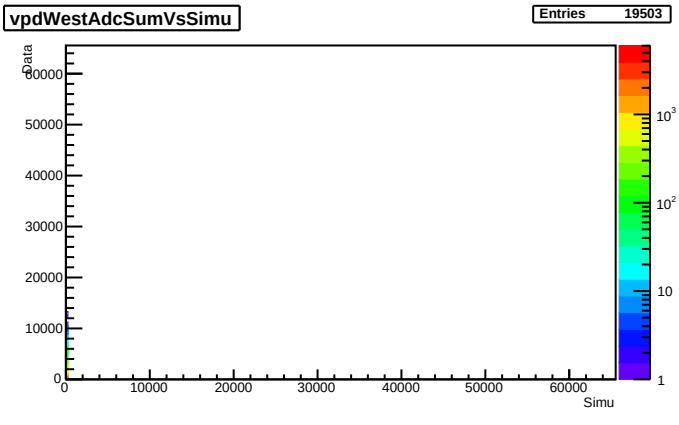

vpdEastAdcSum
Entries 25214

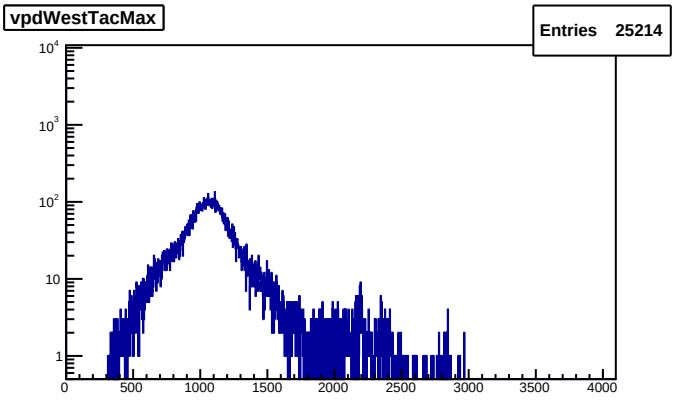

vpdEastAdcSumVsSimu
Entries 11847
Data
Simu

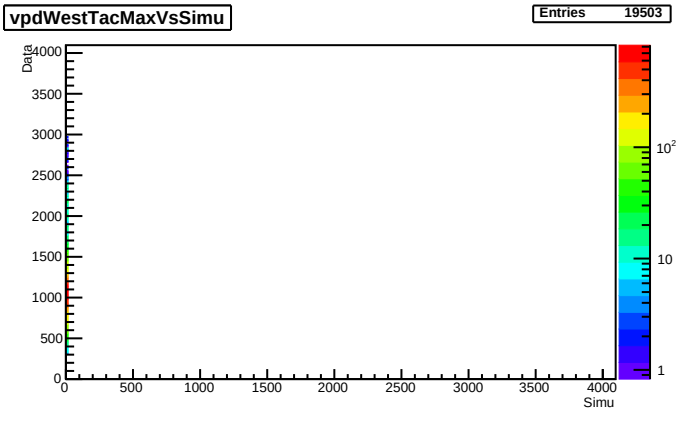

vpdEastTacMax
Entries 25214

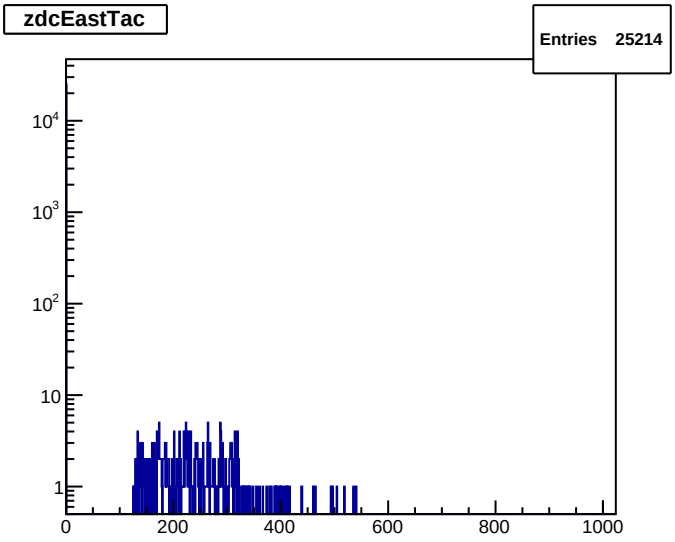

vpdEastTacMaxVsSimu
Entries 11847
Data
Simu

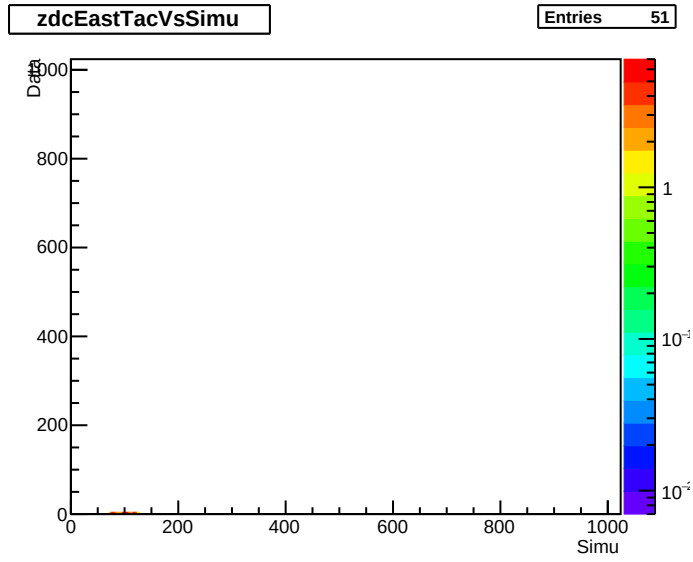

vpdWestAdcSum
Entries 25214

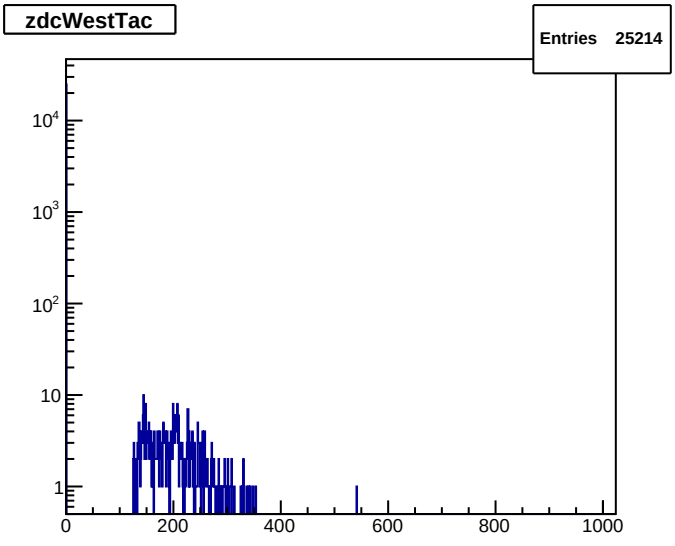

vpdWestAdcSumVsSimu
Entries 19503
Data
Simu

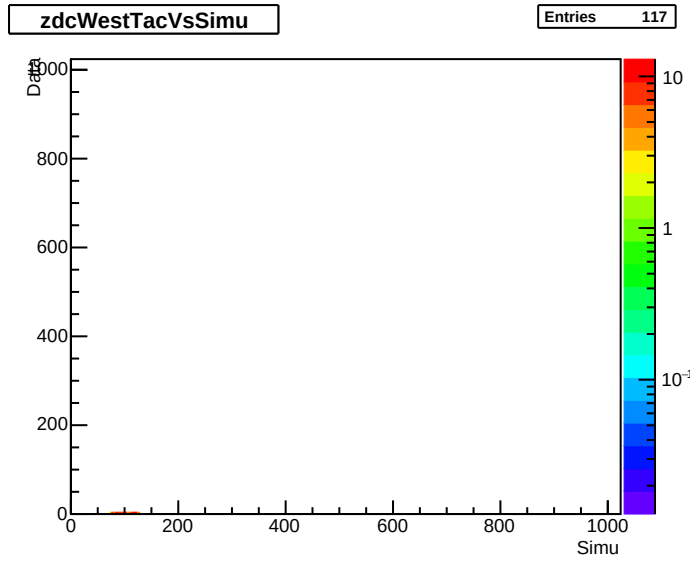

vpdWestTacMax
Entries 25214

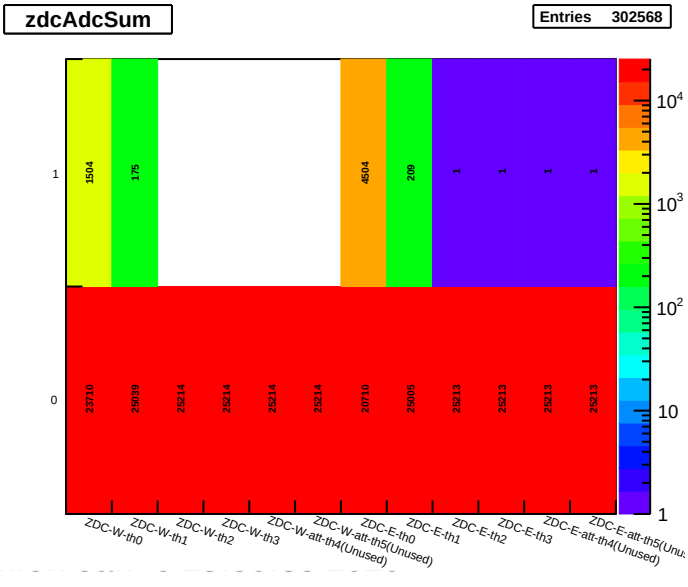

vpdWestTacMaxVsSimu
Entries 19503
Data
Simu

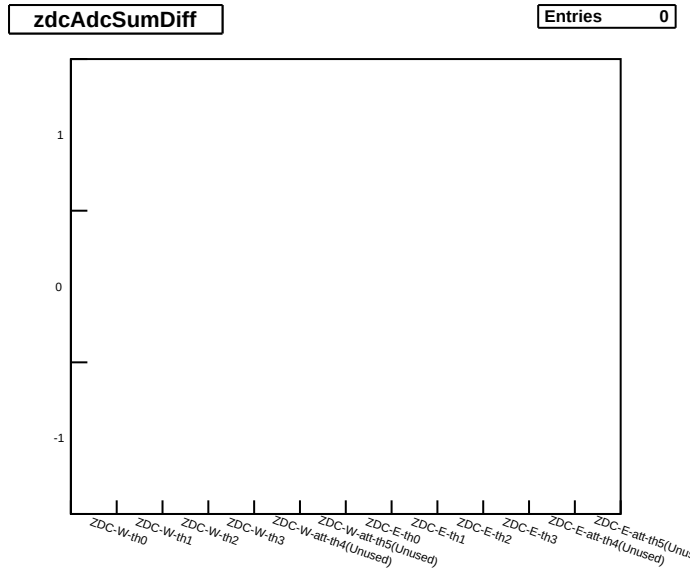

zdcEastTac
Entries 25214


zdcEastTacVsSimu
Entries 51
Data
Simu


zdcWestTac
Entries 25214


zdcWestTacVsSimu
Entries 117
Data
Simu


zdcAdcSum
Entries 302568
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
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
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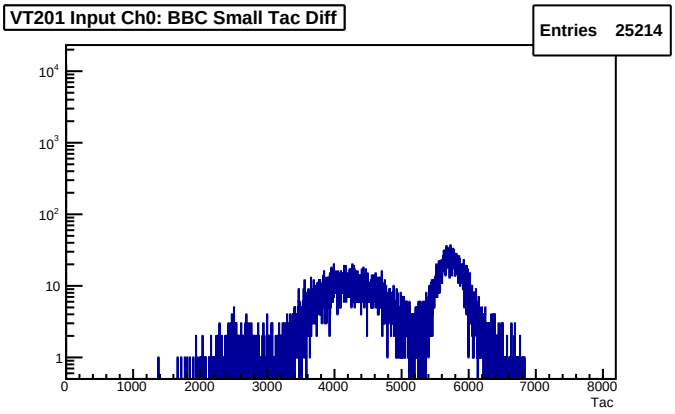
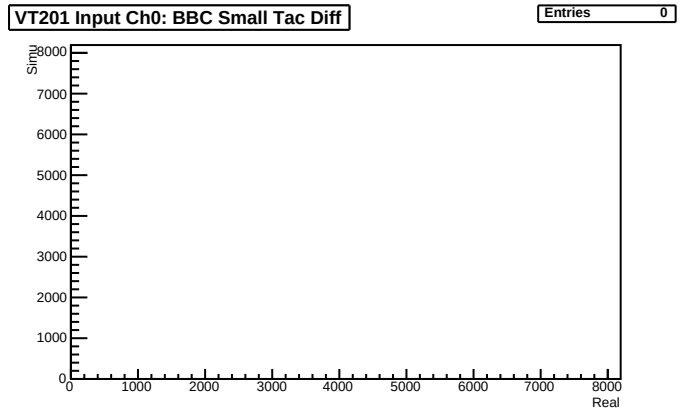
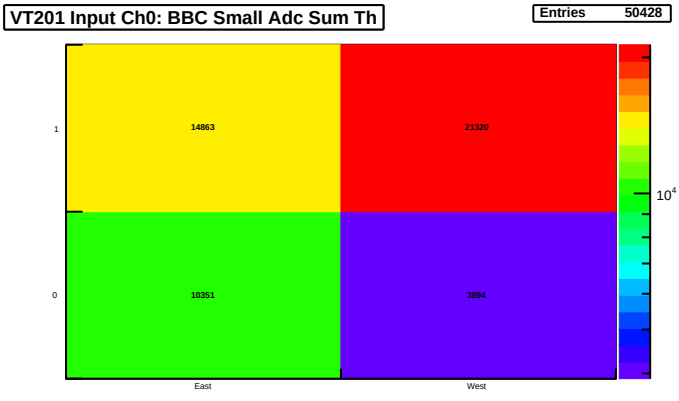
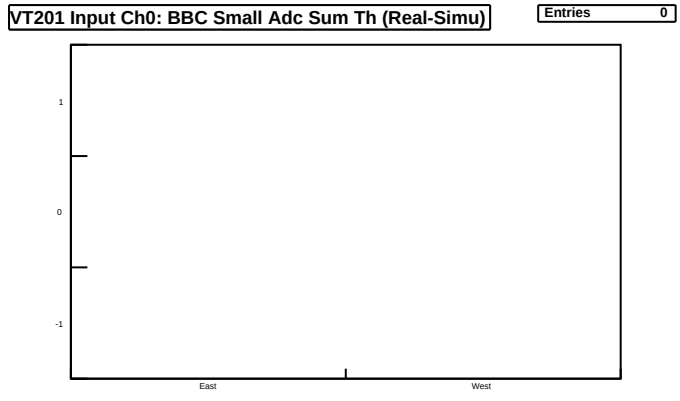
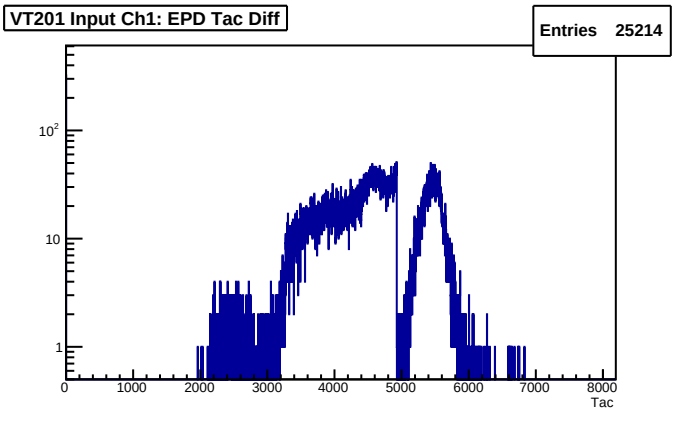
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

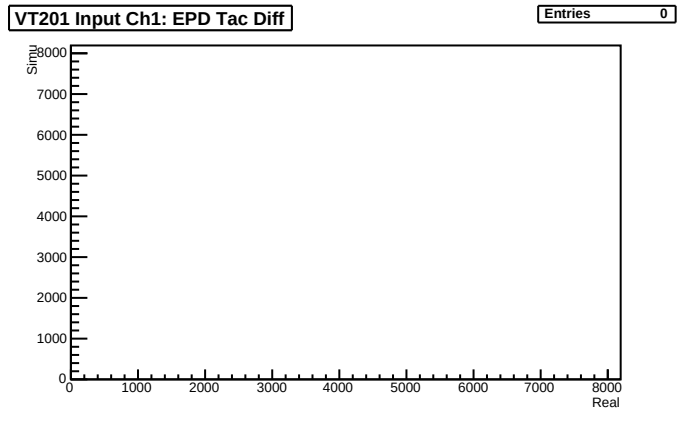

VT201 Input Ch0: BBC Small Tac Diff
Entries 25214
Tac

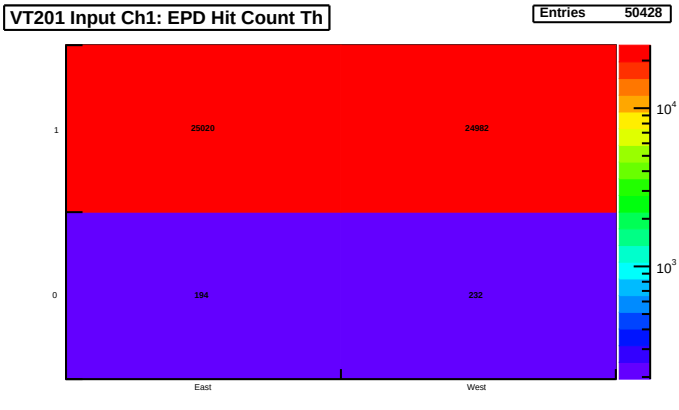

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

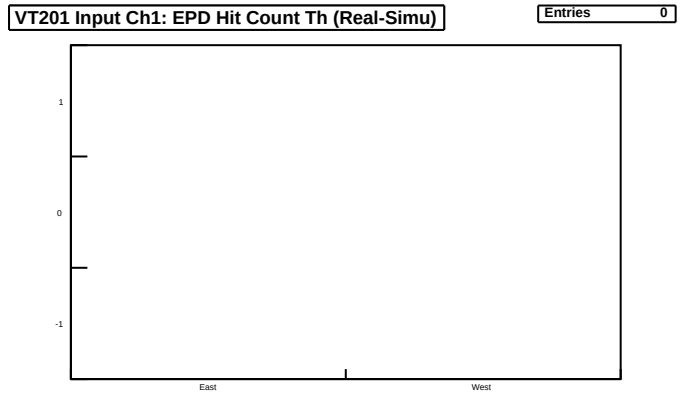

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 50428
14863
21320
10351
3894
East
West

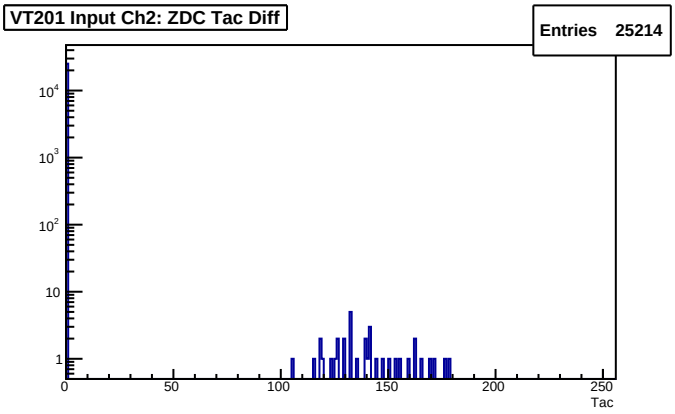

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

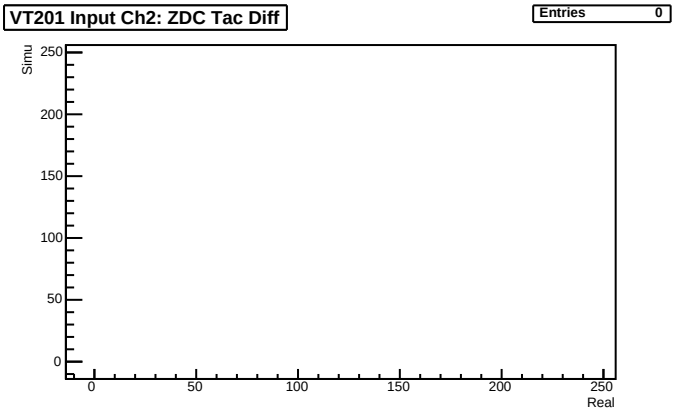

VT201 Input Ch1: EPD Tac Diff
Entries 25214
Tac

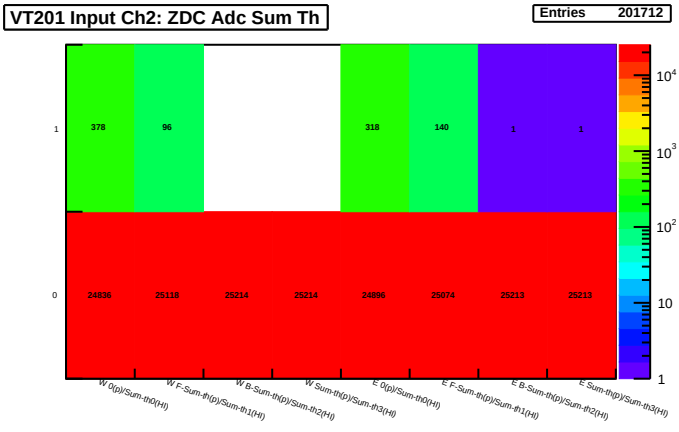

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

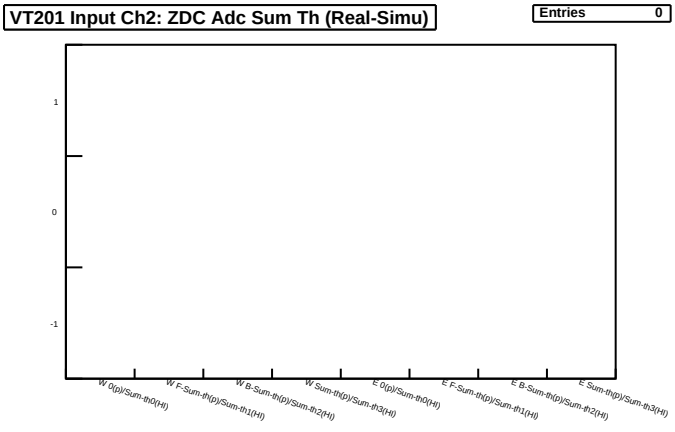

VT201 Input Ch1: EPD Hit Count Th
Entries 50428
25020
24982
194
232
East
West

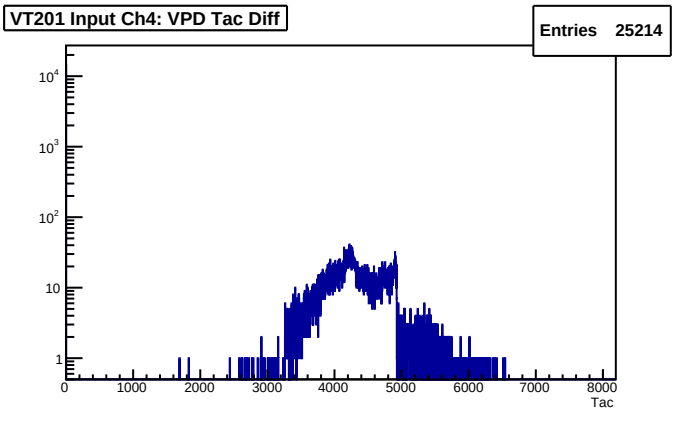

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

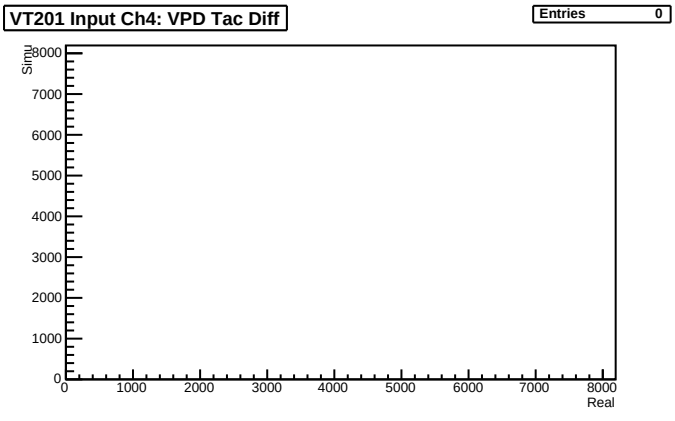

VT201 Input Ch2: ZDC Tac Diff
Entries 25214
Tac

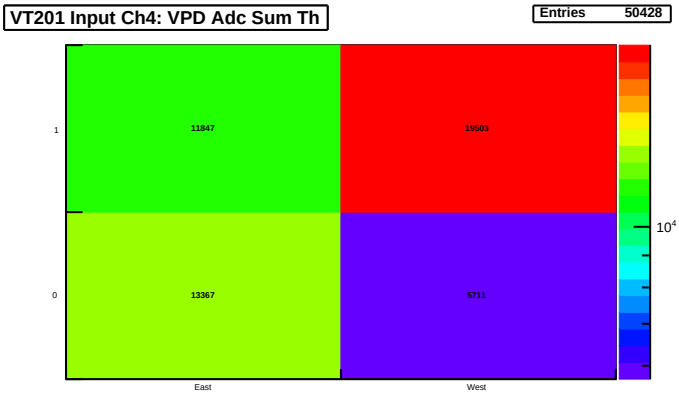

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

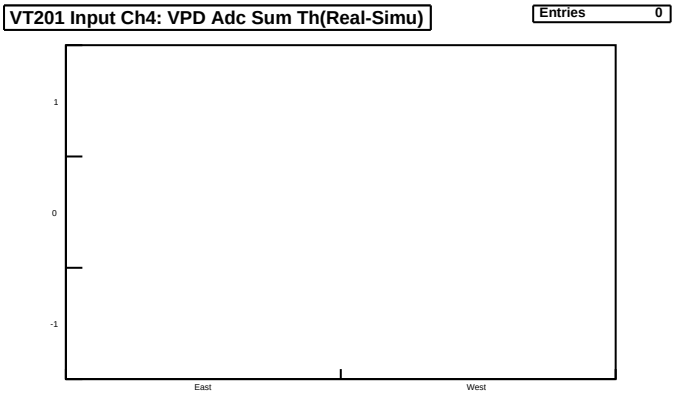

VT201 Input Ch2: ZDC Adc Sum Th
Entries 201712
378
96
318
140
1
1
24836
25118
25214
25214
24896
25074
25213
25213
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

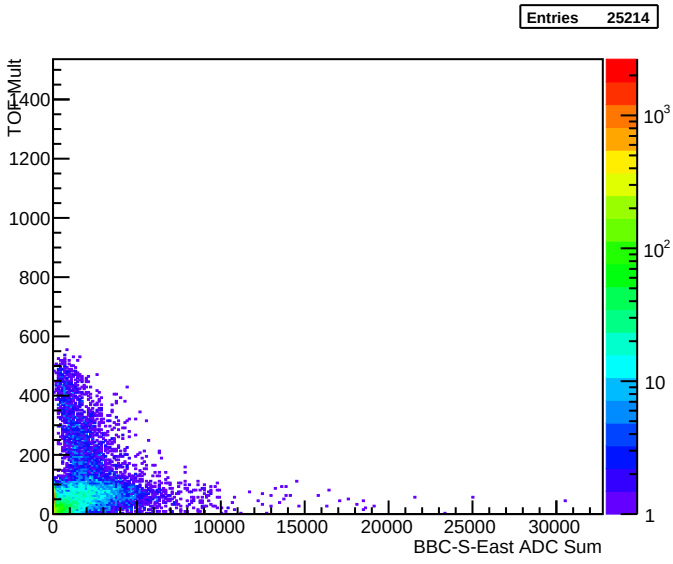

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

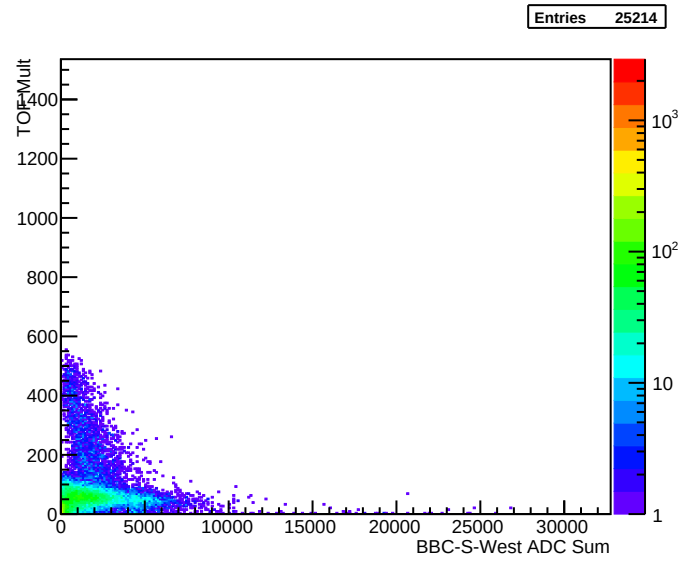

VT201 Input Ch4: VPD Tac Diff
Entries 25214
Tac

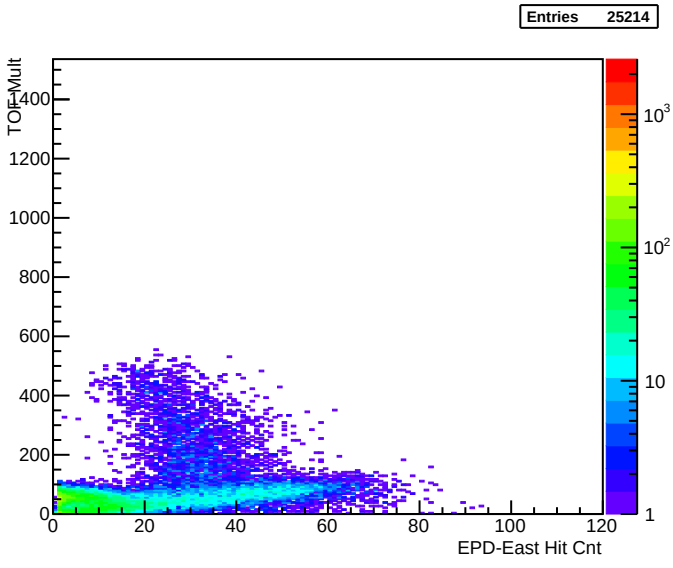

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

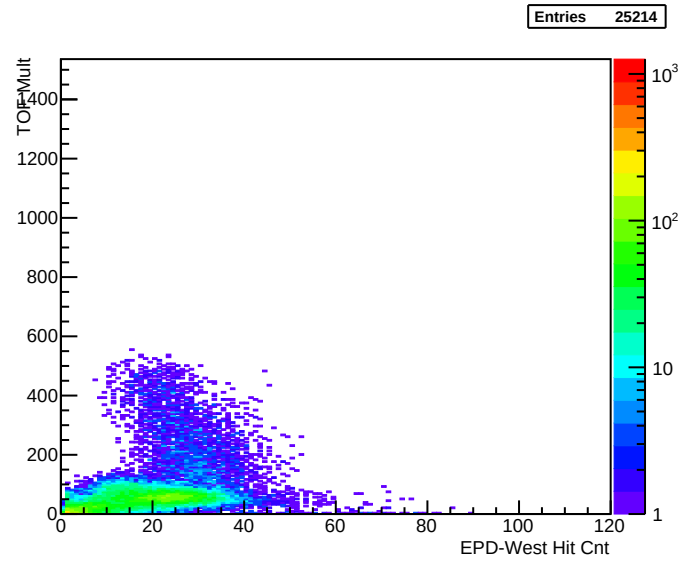

VT201 Input Ch4: VPD Adc Sum Th
Entries 50428
11847
19503
13367
5711
East
West

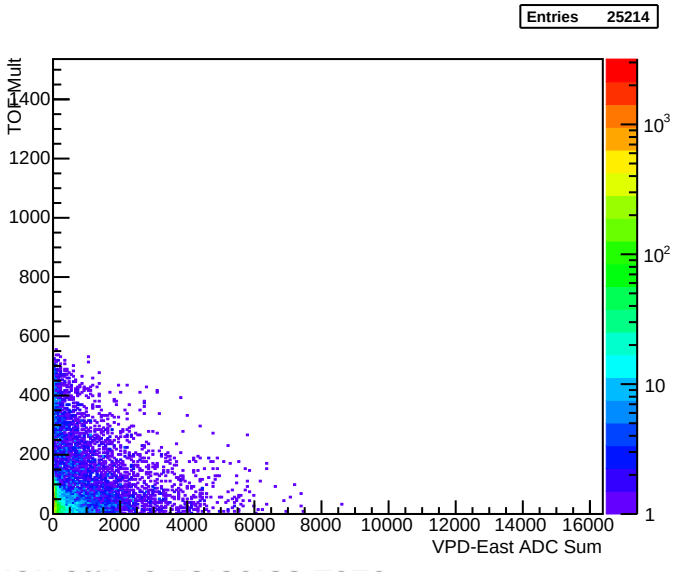

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

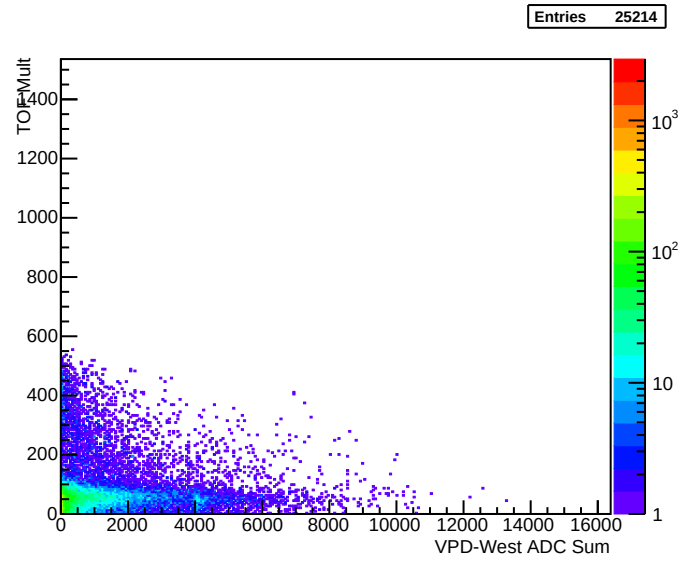

Entries 25214
TOF-Mult
BBC-S-East ADC Sum

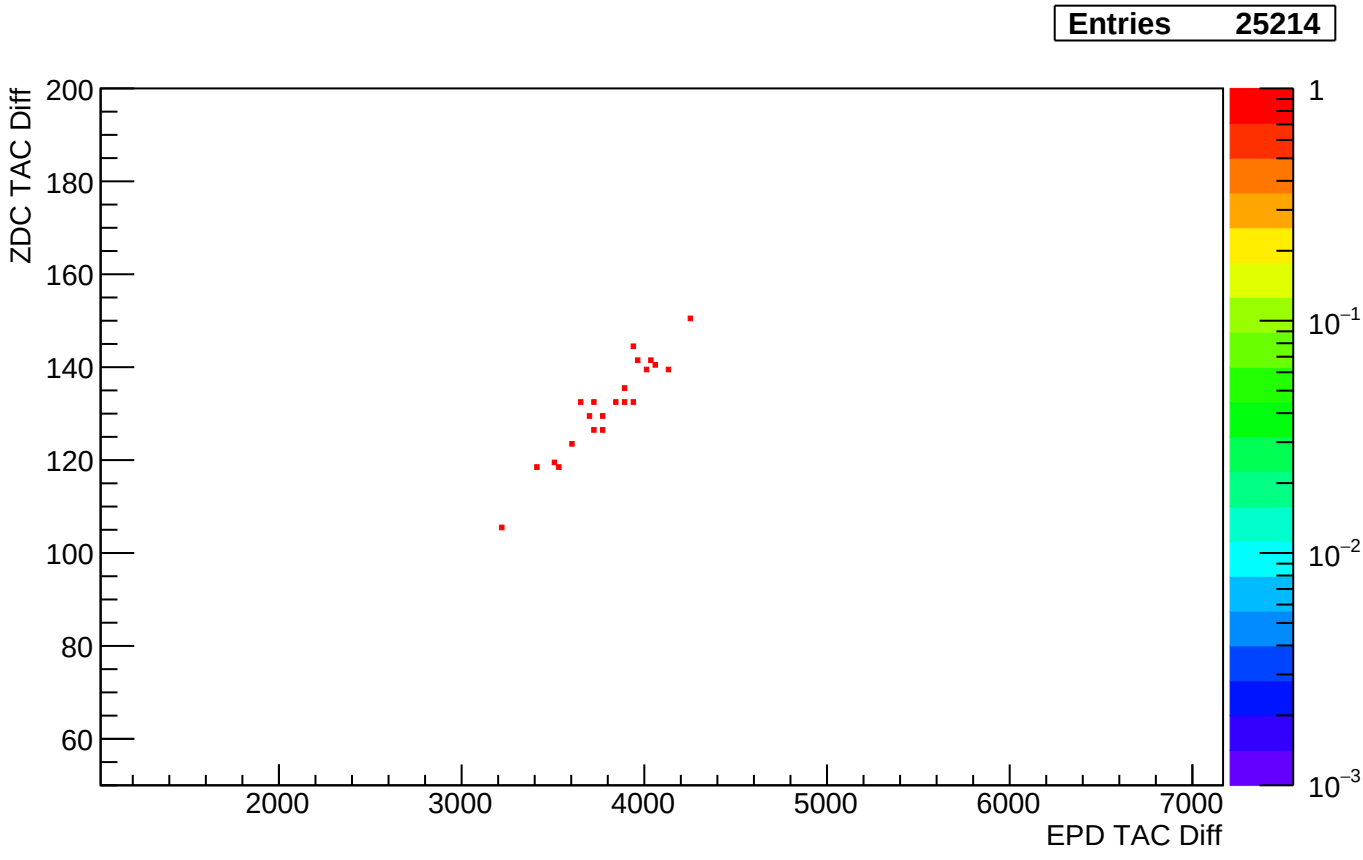

Entries 25214
TOF-Mult
BBC-S-West ADC Sum

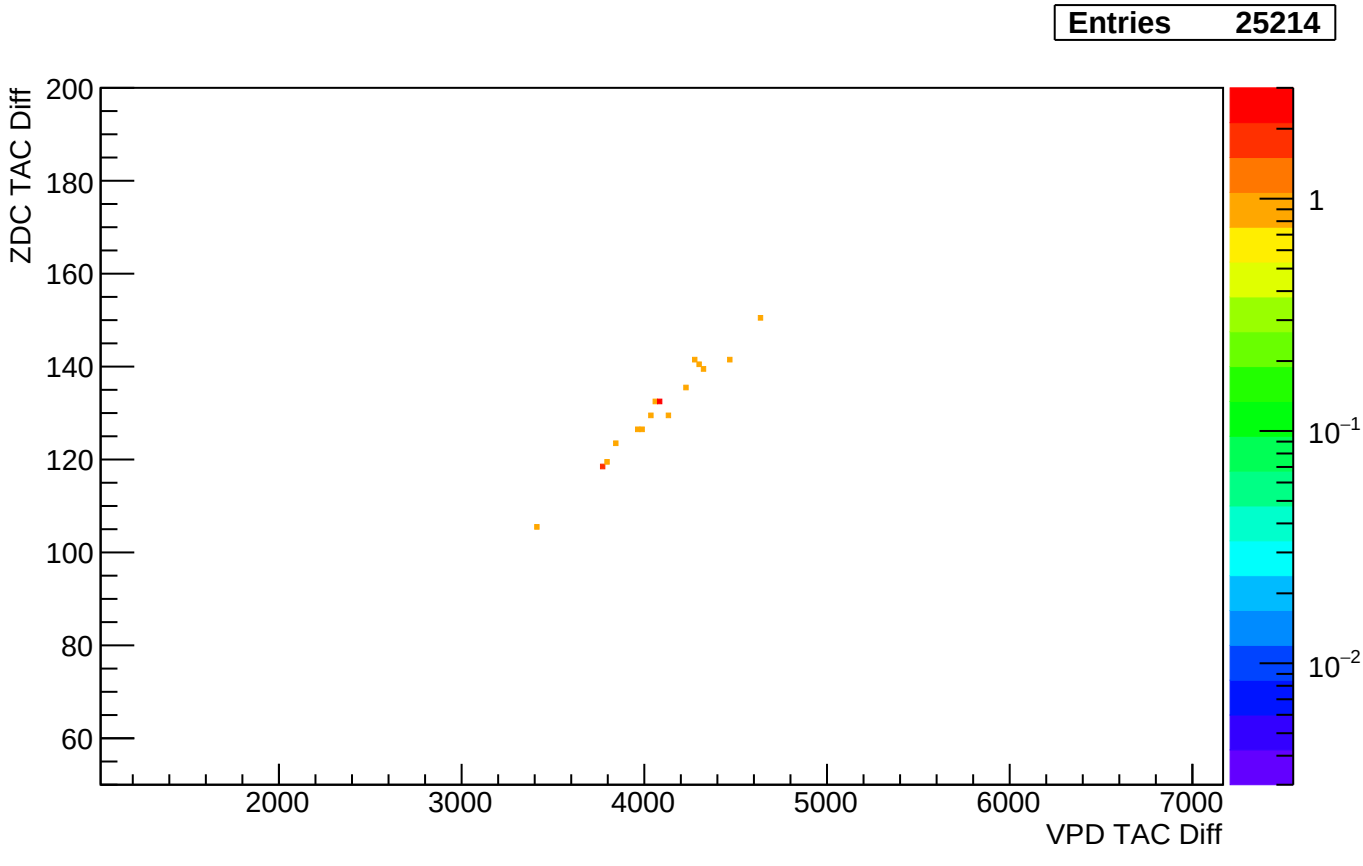

Entries 25214
TOF-Mult
EPD-East Hit Cnt

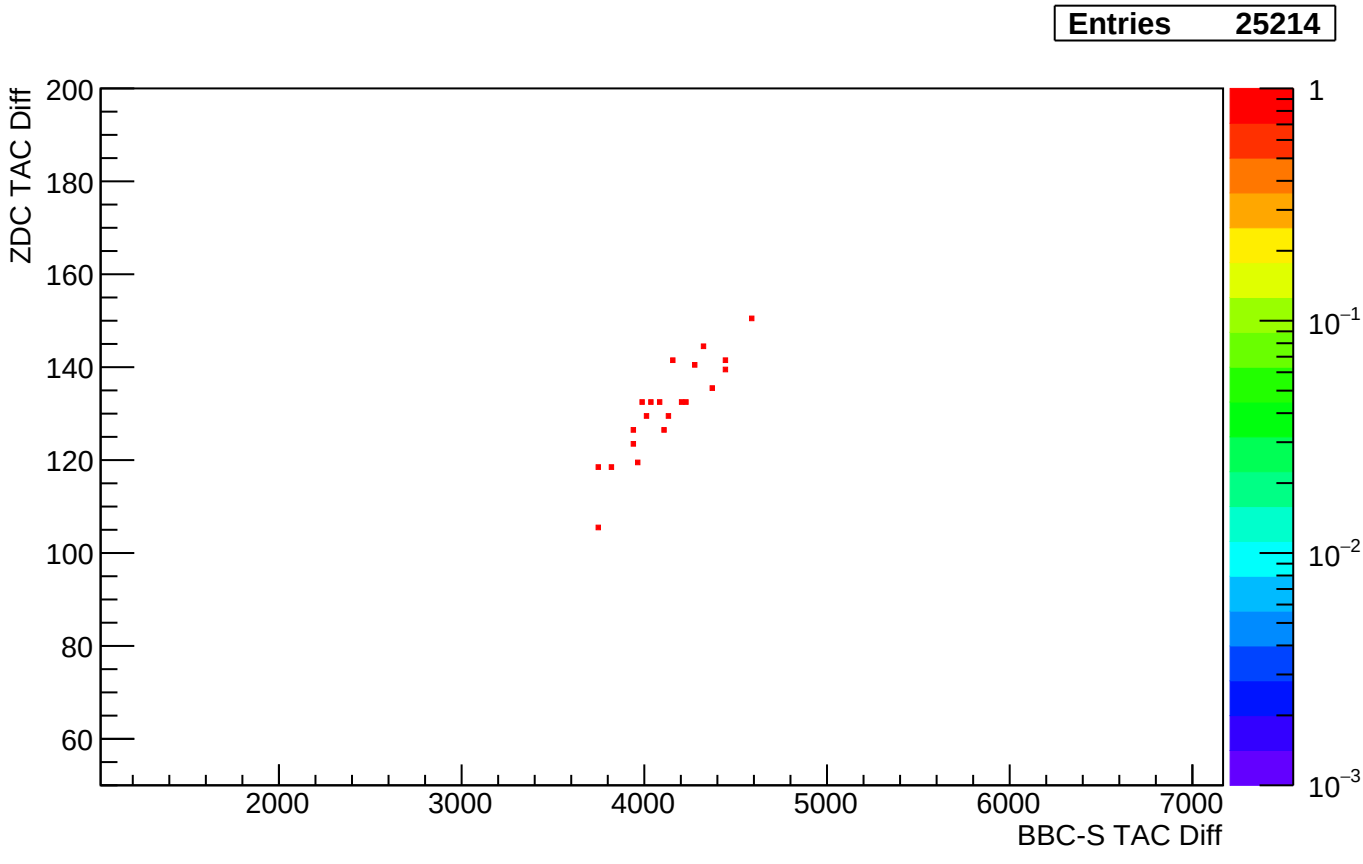

Entries 25214
TOF-Mult
EPD-West Hit Cnt

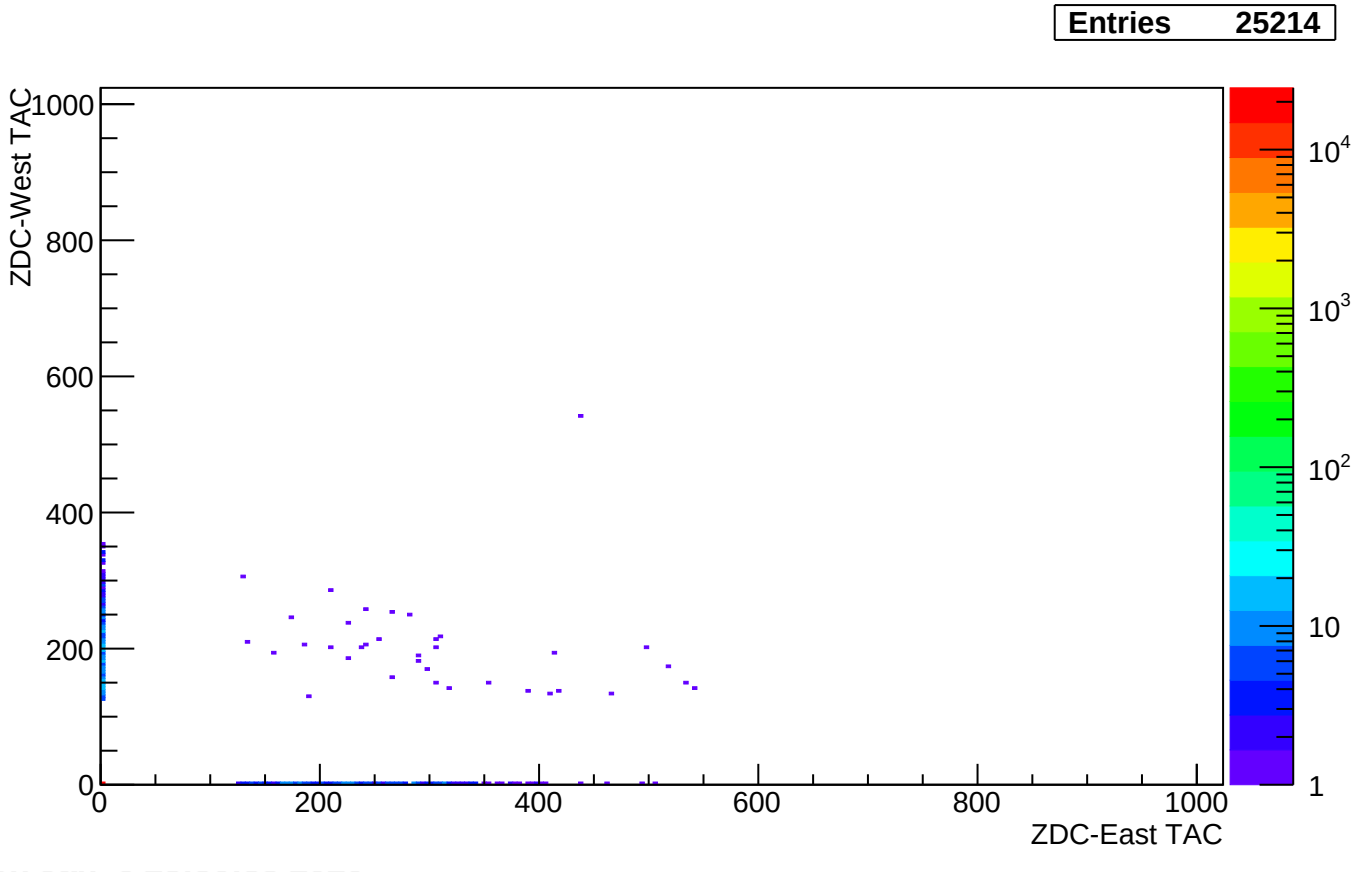

Entries 25214
TOF-Mult
VPD-East ADC Sum

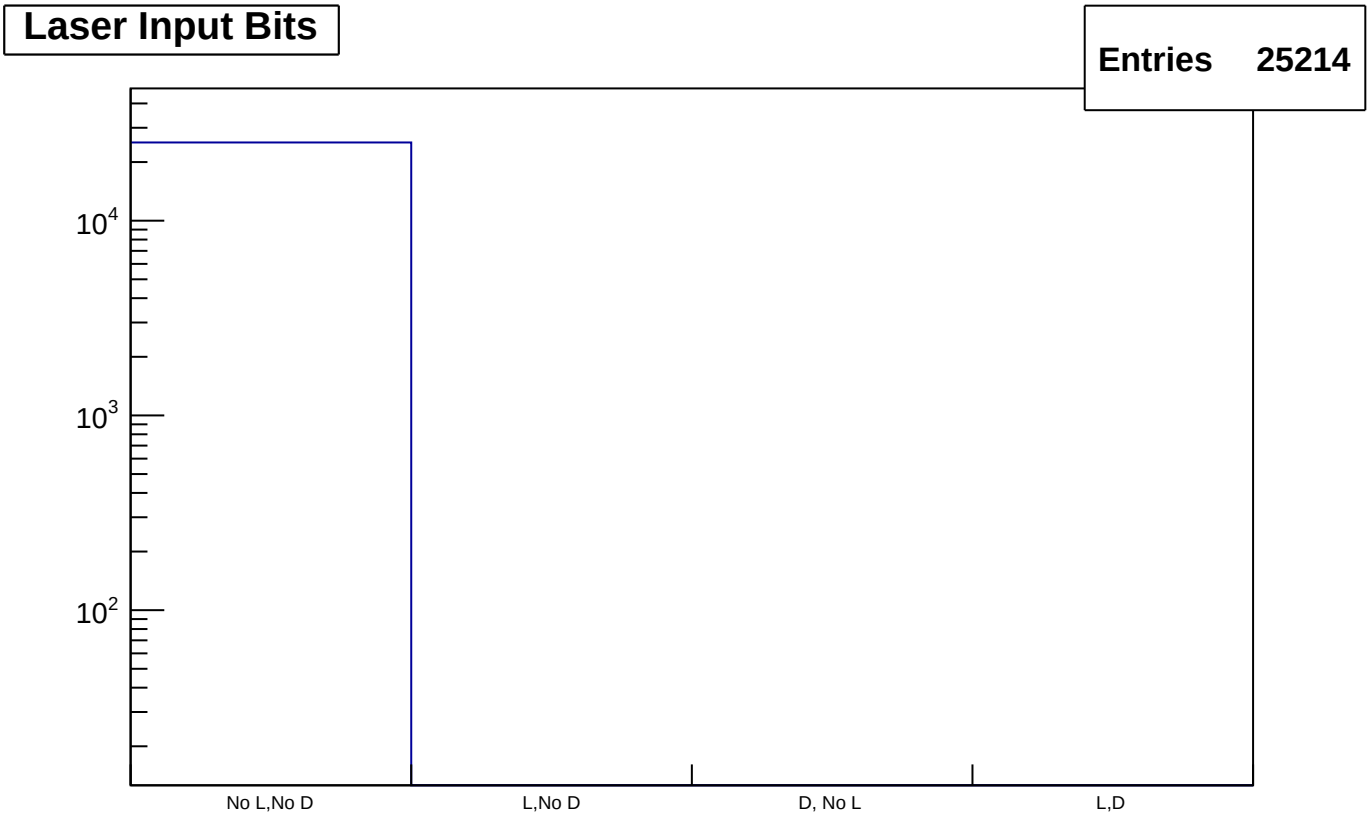

Entries 25214
TOF-Mult
VPD-West ADC Sum

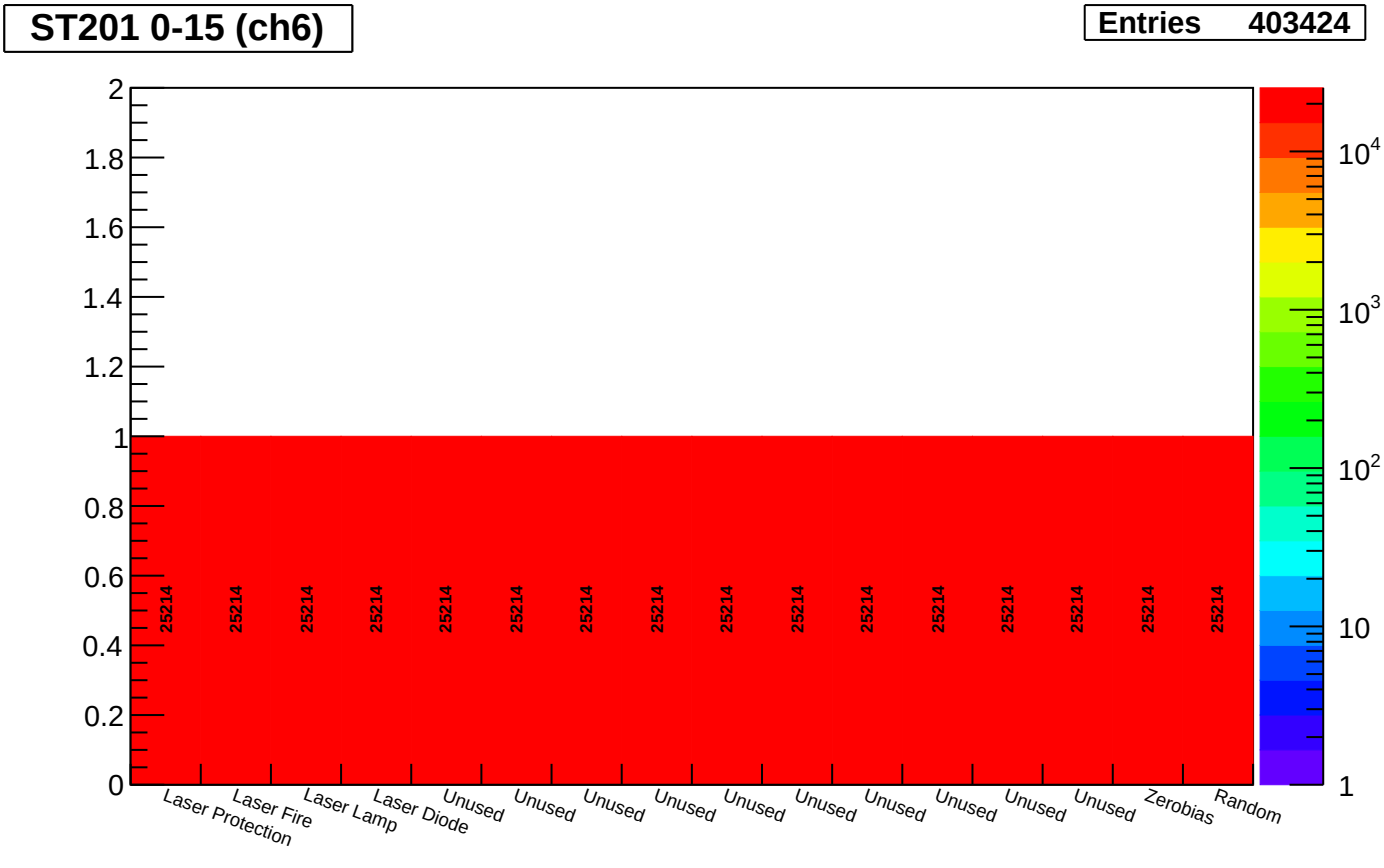

Entries 25214
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

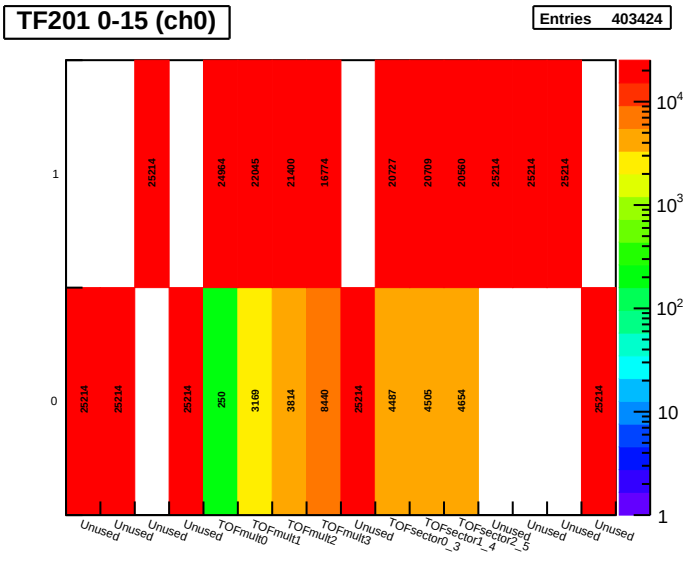

Entries 25214
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

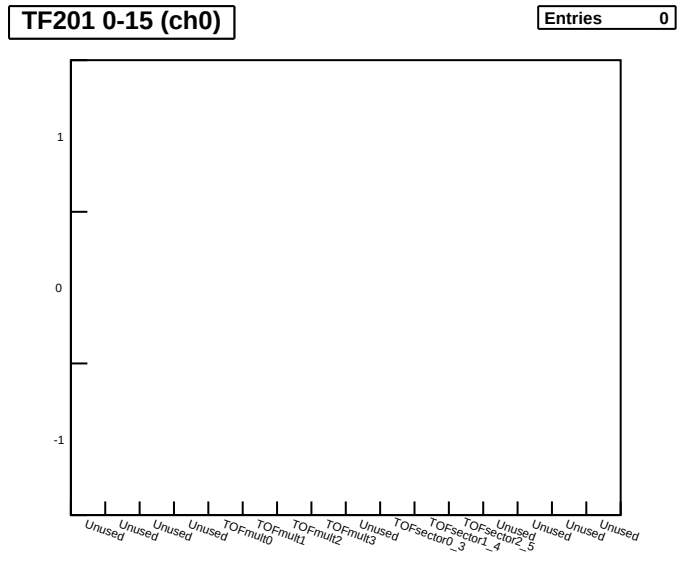

Entries 25214
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

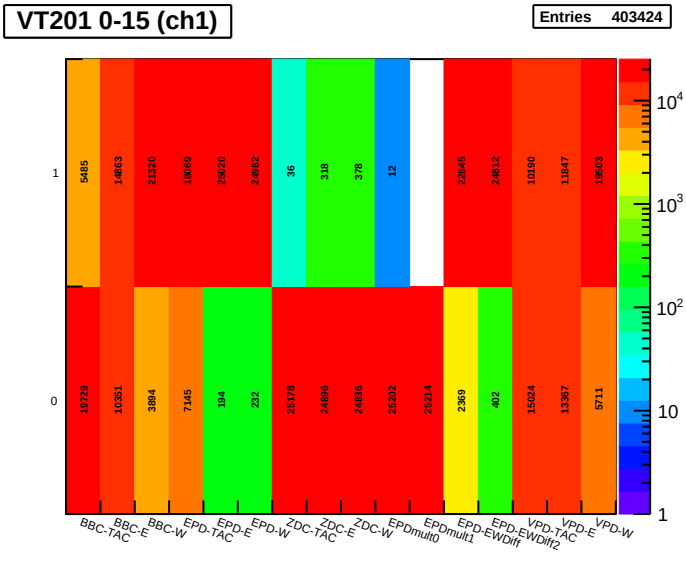

Entries 25214
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^4
10^3
10^2
10
1

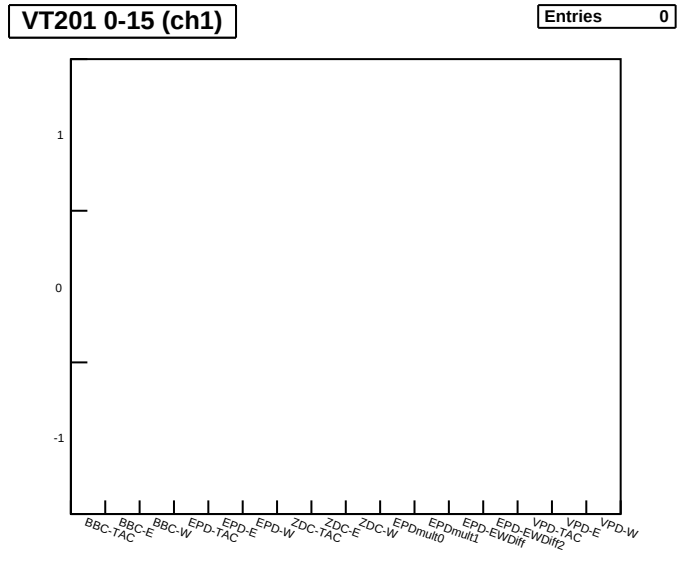

Laser Input Bits
Entries 25214
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

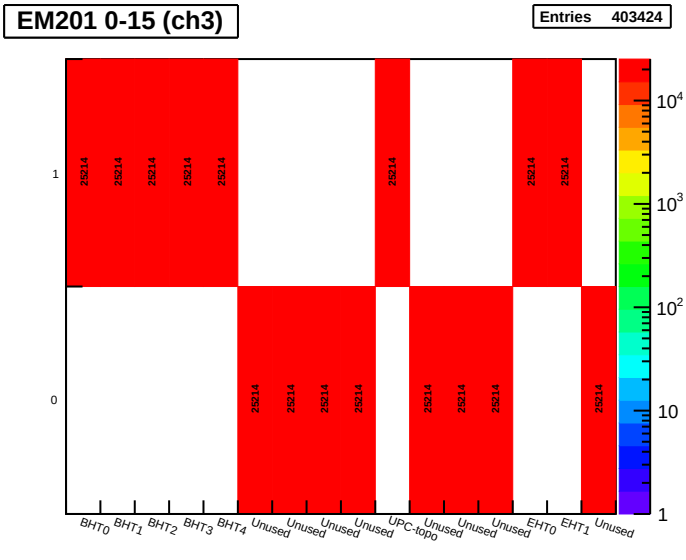

ST201 0-15 (ch6)
Entries 403424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
25214
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

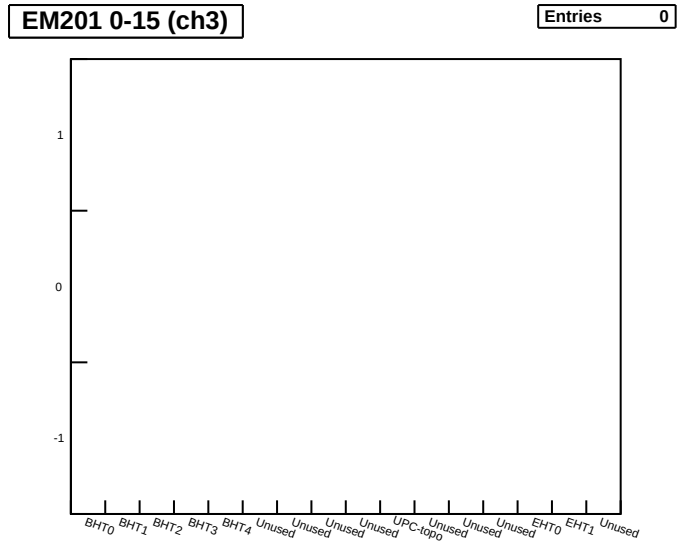

TF201 0-15 (ch0)
Entries 403424
1
0
25214 24964 22045 21400 16774 20727 20709 20560 25214 25214 25214
25214 25214 25214 250 3169 3814 8440 25214 4487 4505 4654 25214
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
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 403424
1
0
5485 14863 21320 19069 25020 24982 36 318 378 12 22645 24812 10190 11847 19503
19729 10351 3894 7145 194 232 25178 24896 24836 25202 25214 2369 402 15024 13367 5711
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 403424
1
0
25214 25214 25214 25214 25214 25214 25214 25214
25214 25214 25214 25214 25214 25214 25214 25214
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