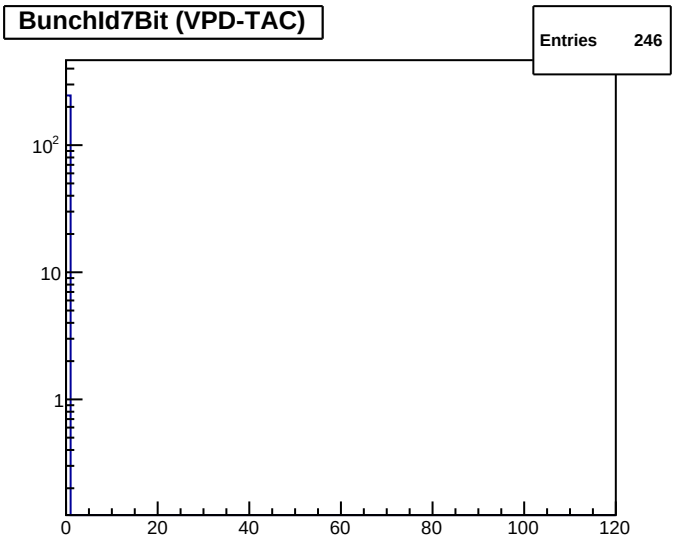
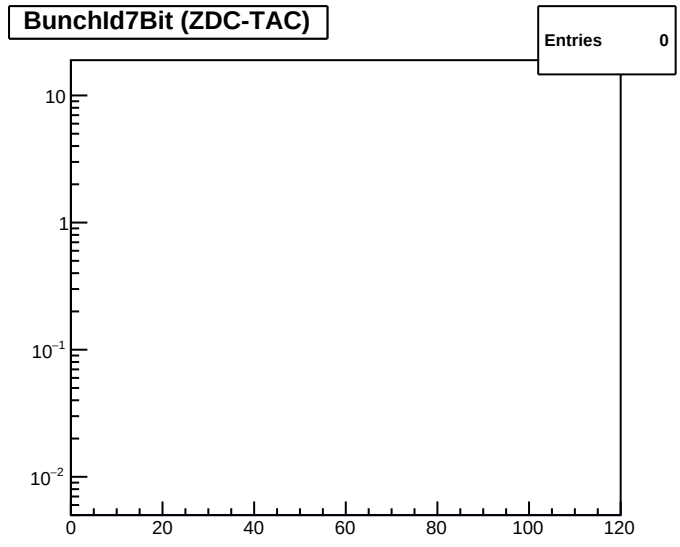
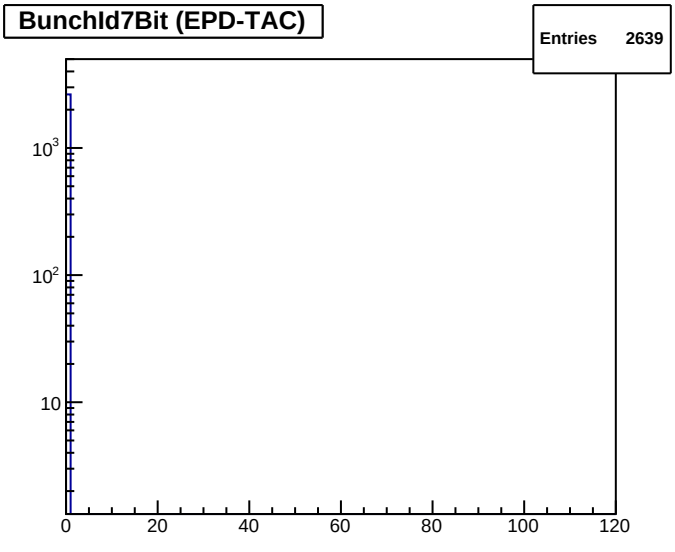
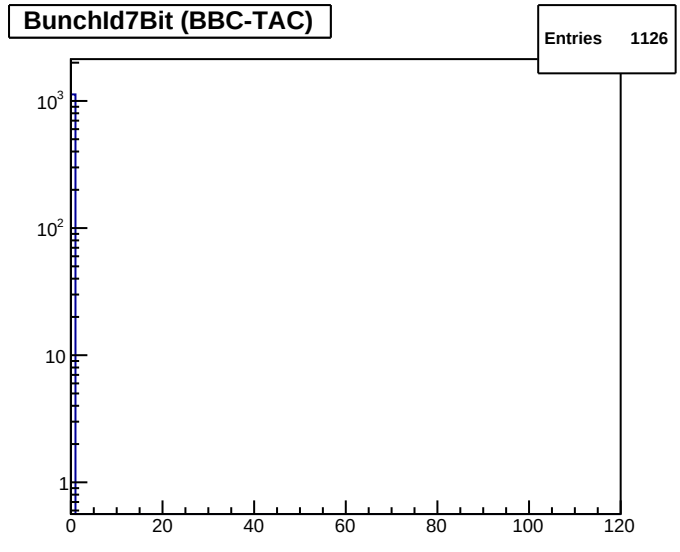
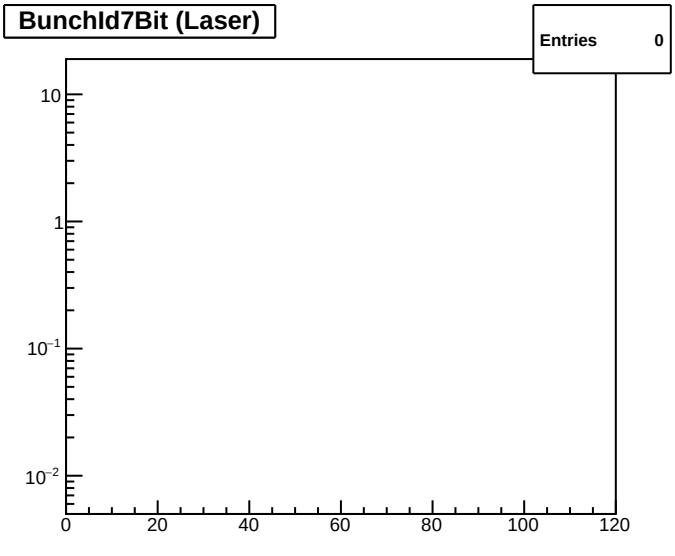
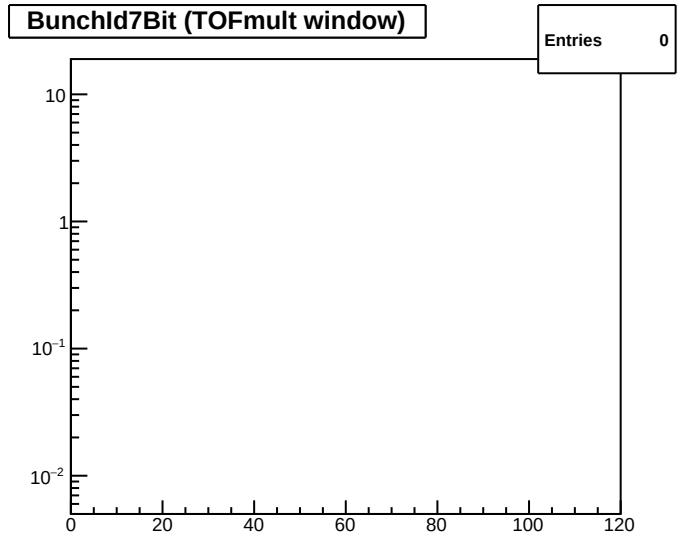

BunchId7Bit (VPD-TAC)
Entries 246
10^2
10
1
0
20
40
60
80
100
120

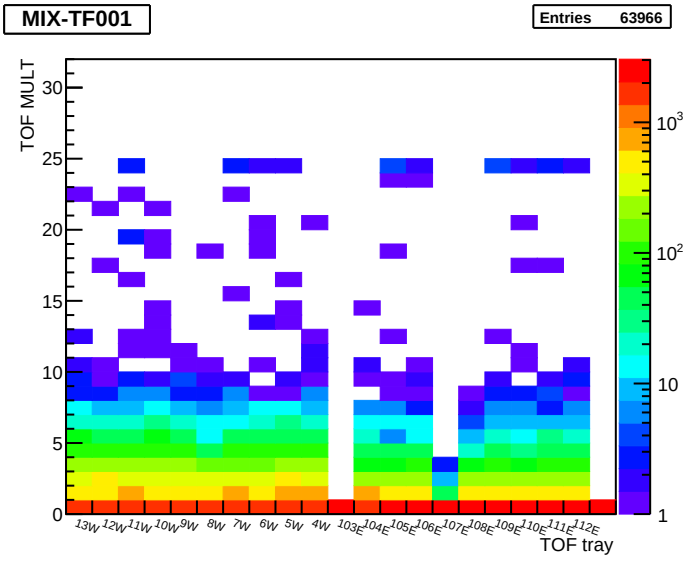

BunchId7Bit (ZDC-TAC)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

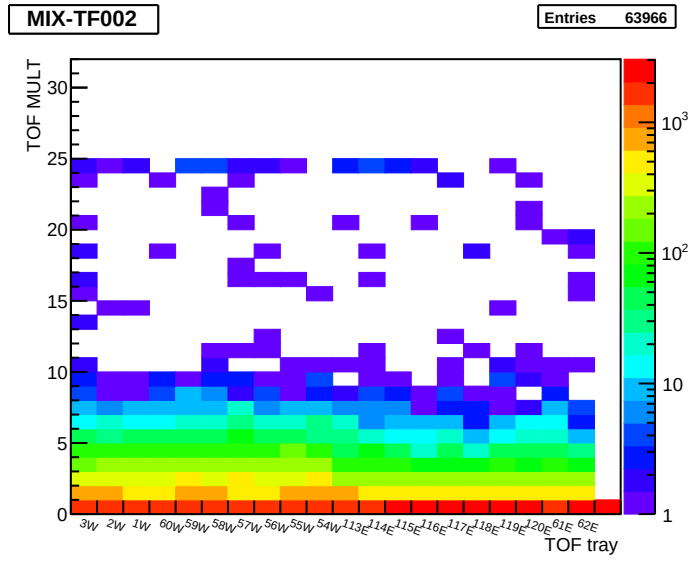

BunchId7Bit (EPD-TAC)
Entries 2639
10^3
10^2
10
0
20
40
60
80
100
120

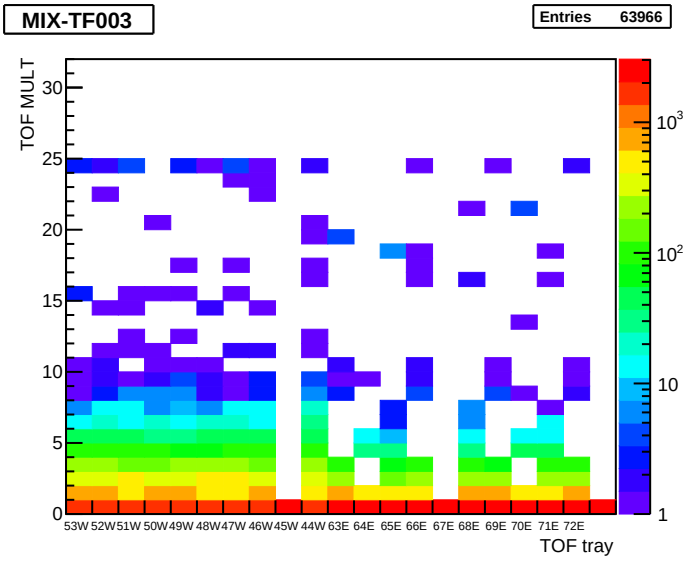

BunchId7Bit (BBC-TAC)
Entries 1126
10^3
10^2
10
1
0
20
40
60
80
100
120

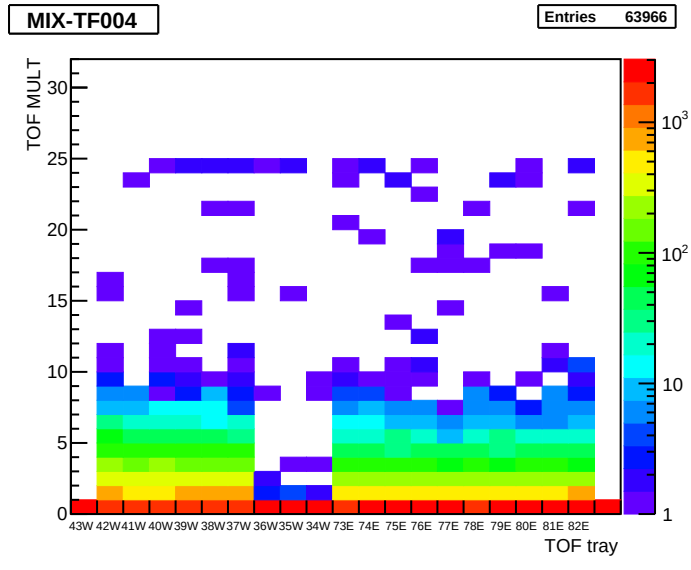

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

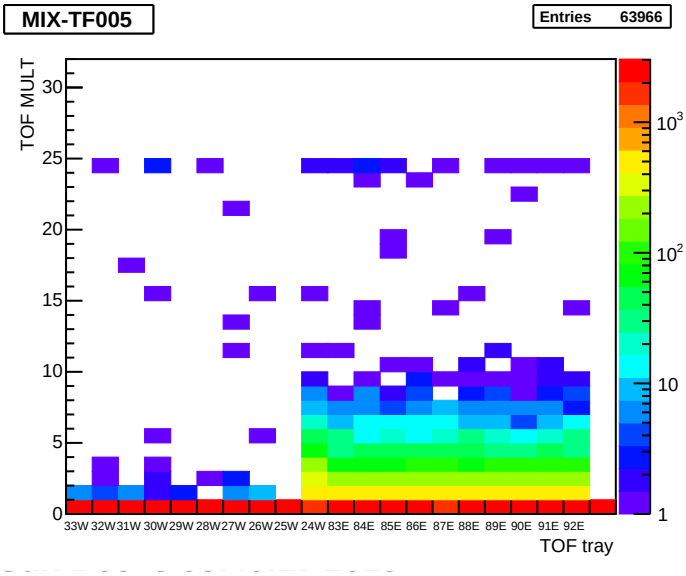

BunchId7Bit (TOFmult window)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

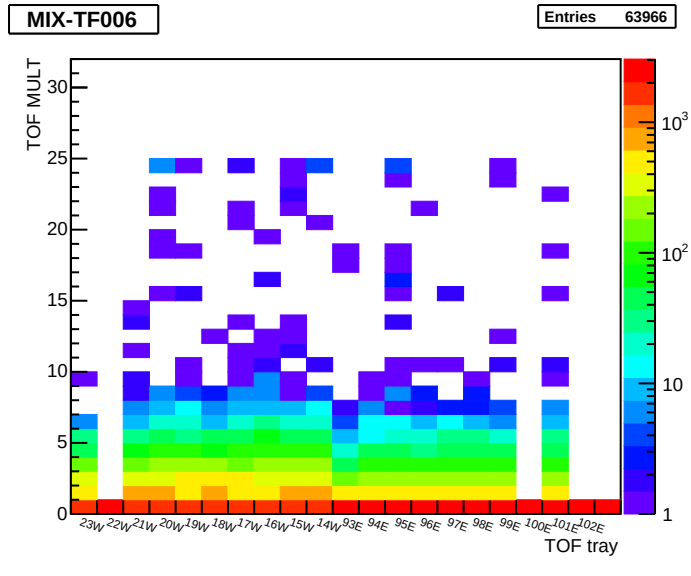

MIX-TF001
Entries 63966
TOF MULT
TOF tray

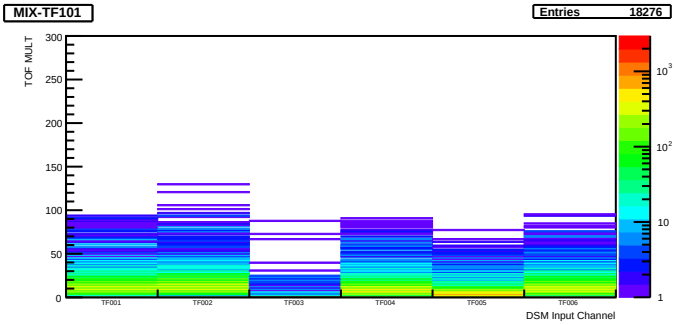

MIX-TF002
Entries 63966
TOF MULT
TOF tray

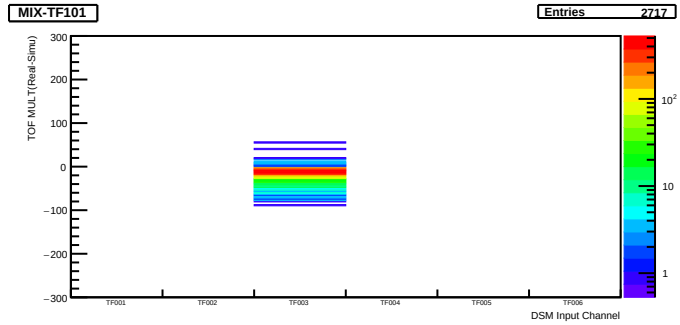

MIX-TF003
Entries 63966
TOF MULT
TOF tray

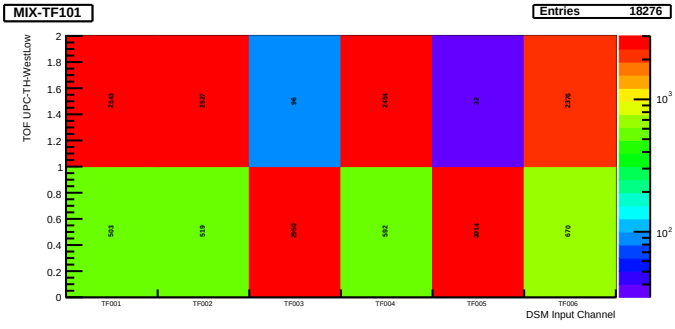

MIX-TF004
Entries 63966
TOF MULT
TOF tray

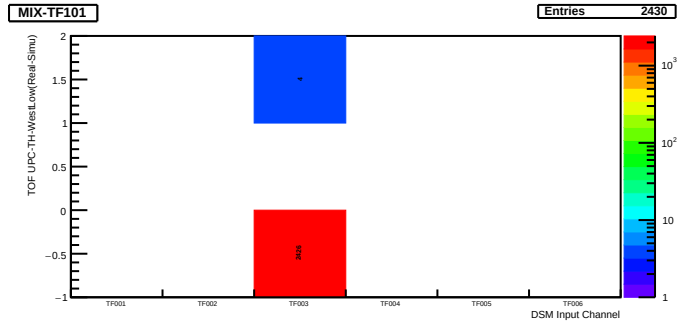

MIX-TF005
Entries 63966
TOF MULT
TOF tray

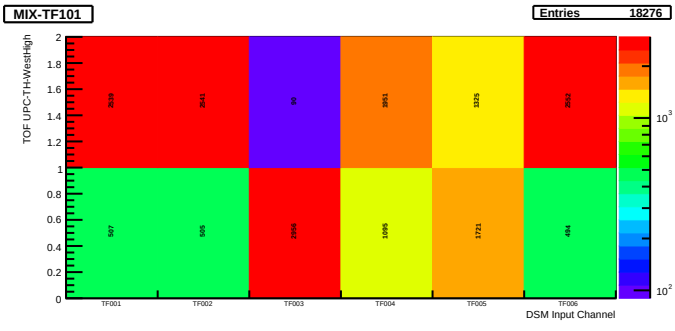

MIX-TF006
Entries 63966
TOF MULT
TOF tray

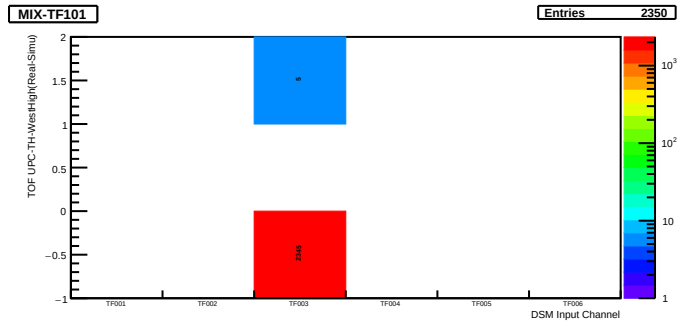

MIX-TF101
Entries 18276
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

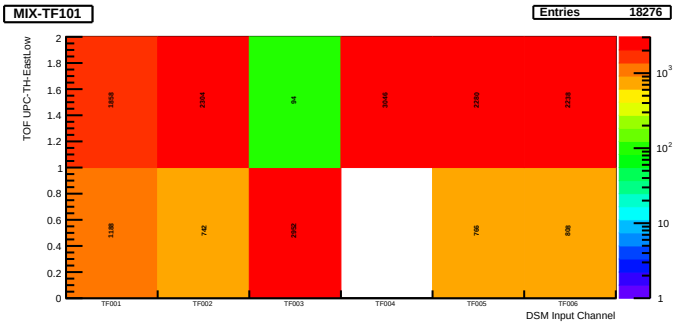

MIX-TF101
Entries 2717
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

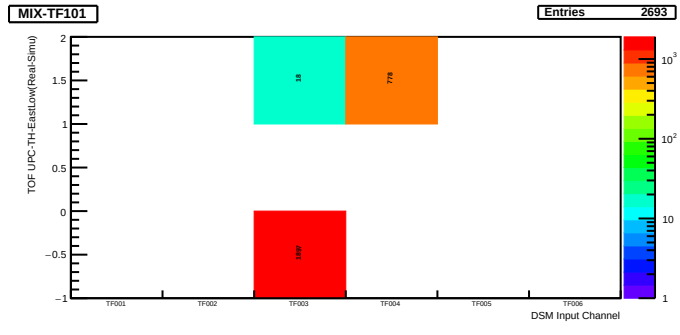

MIX-TF101
Entries 18276
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

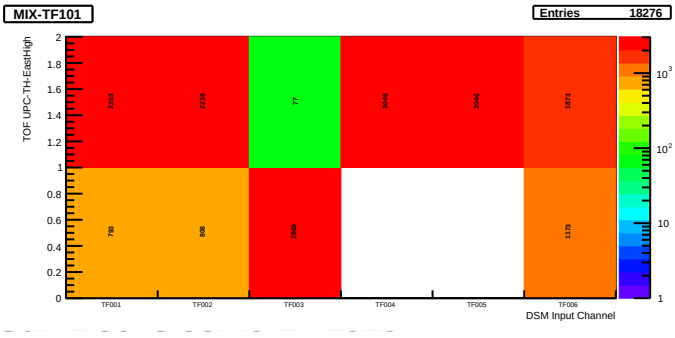

MIX-TF101
Entries 2430
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

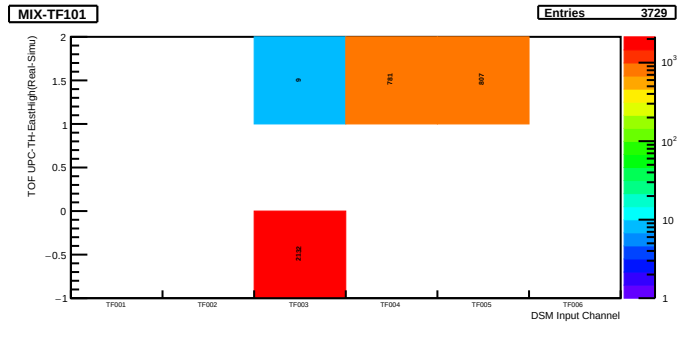

MIX-TF101
Entries 18276
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

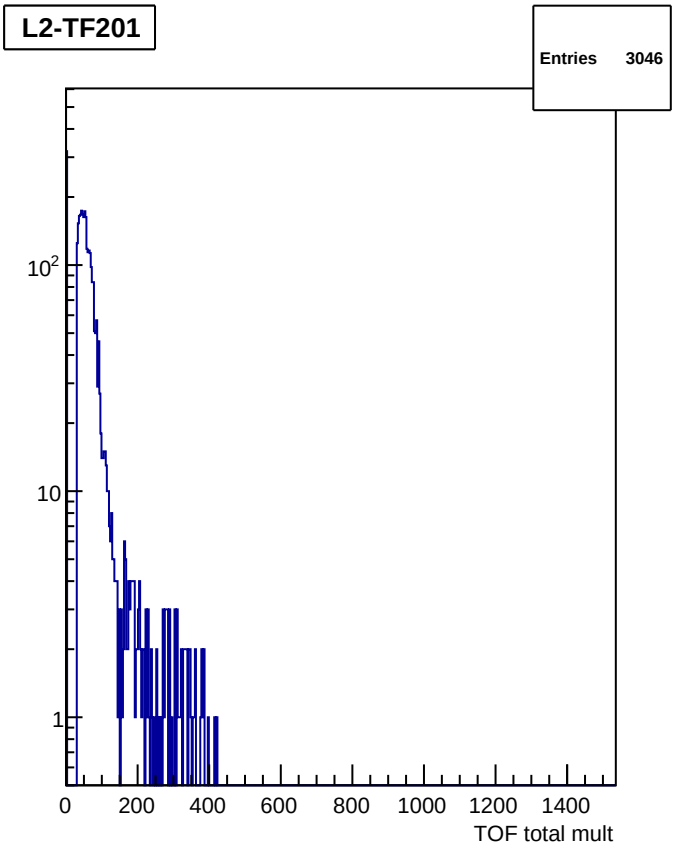

MIX-TF101
Entries 2350
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

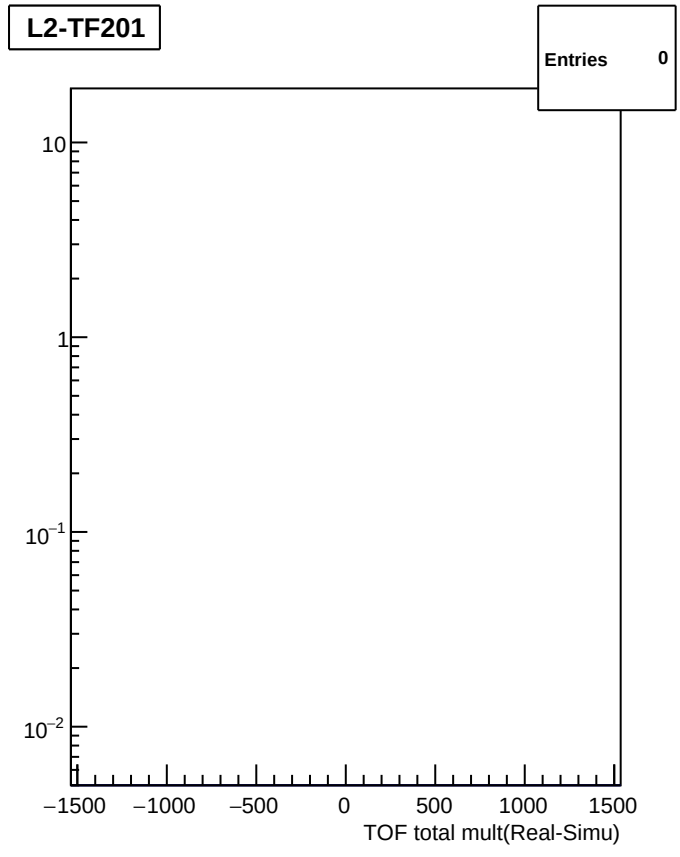

MIX-TF101
Entries 18276
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

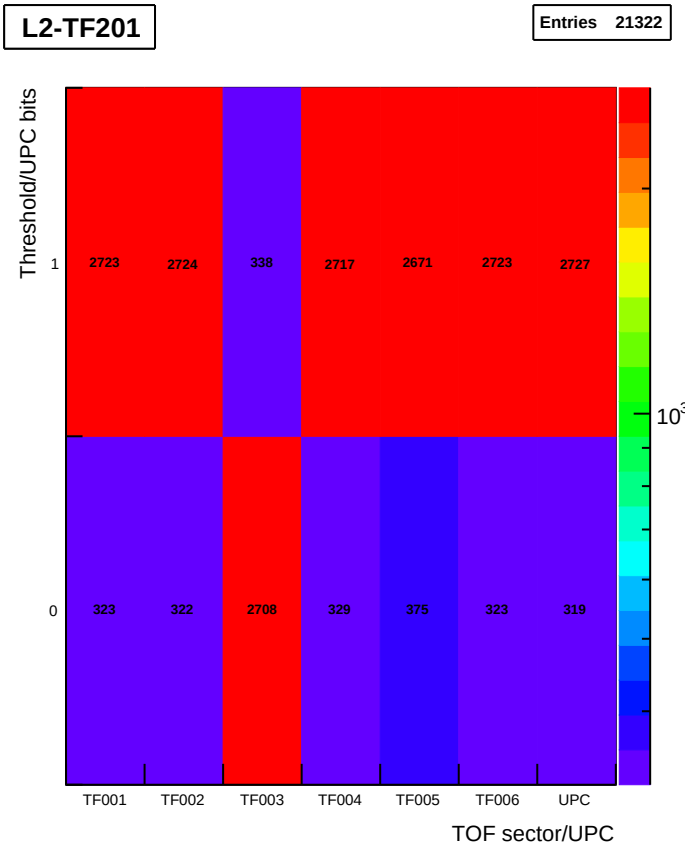

MIX-TF101
Entries 2693
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

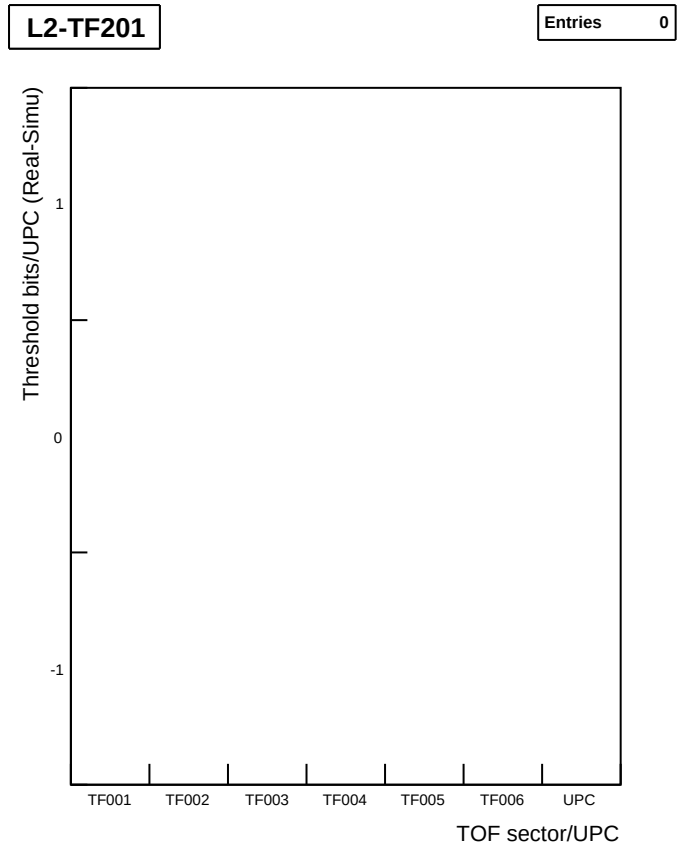

MIX-TF101
Entries 18276
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

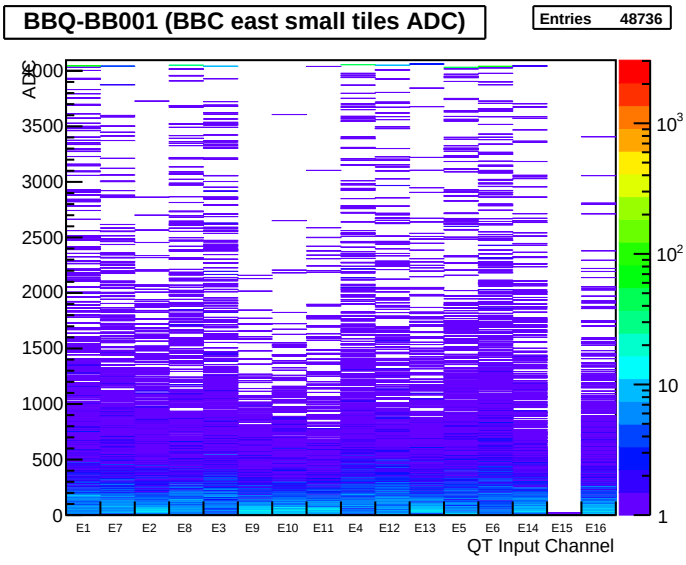

MIX-TF101
Entries 3729
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

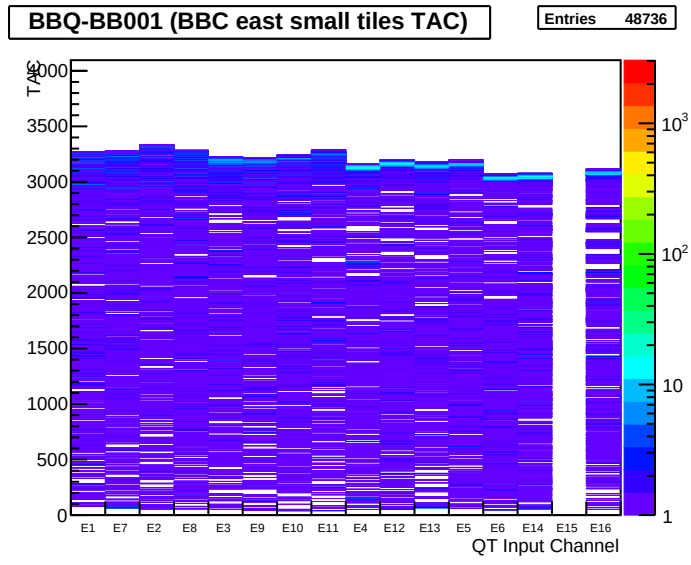

L2-TF201
Entries 3046
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

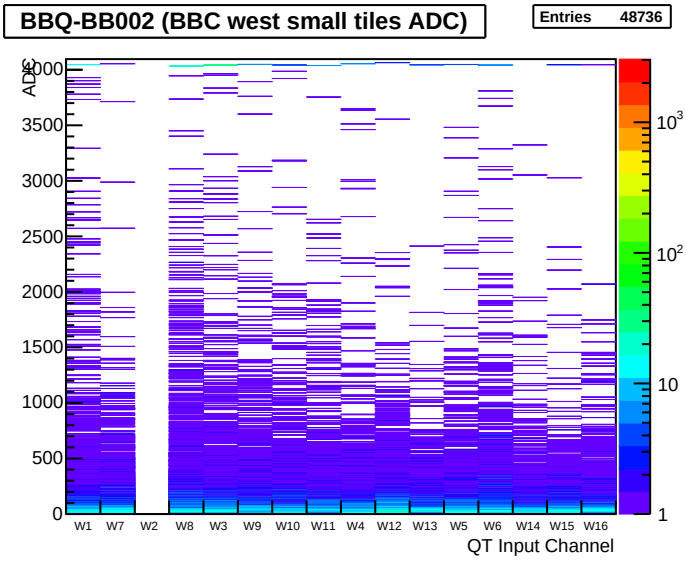

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

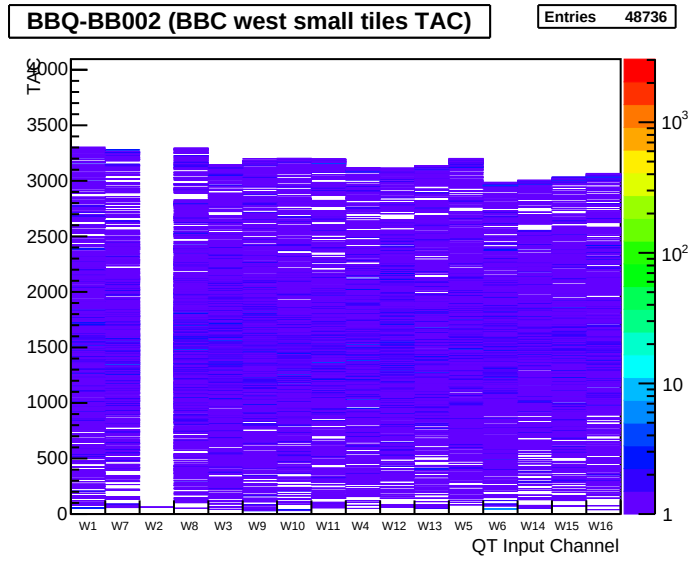

L2-TF201
Entries 21322
Threshold/UPC bits
1
0
2723
2724
338
2717
2671
2723
2727
323
322
2708
329
375
323
319
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

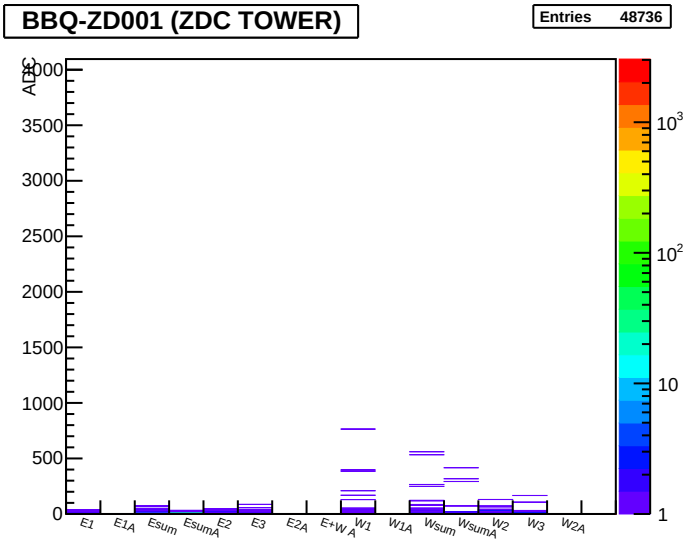

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

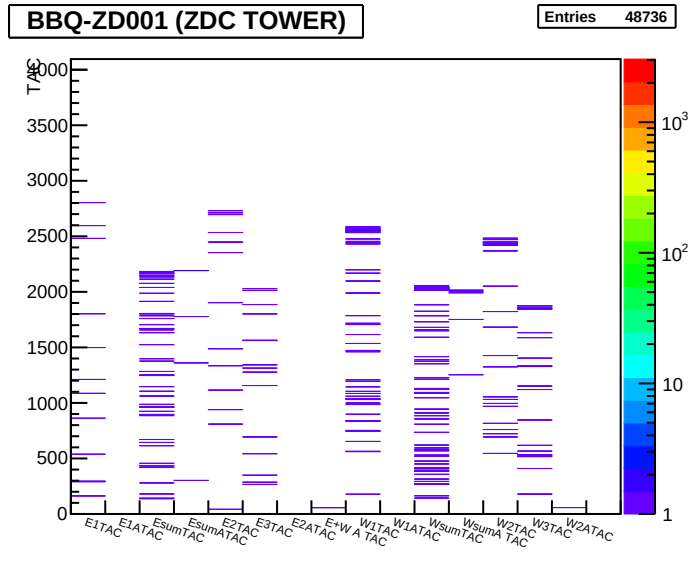

BBQ-BB001 (BBC east small tiles ADC)
Entries 48736
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

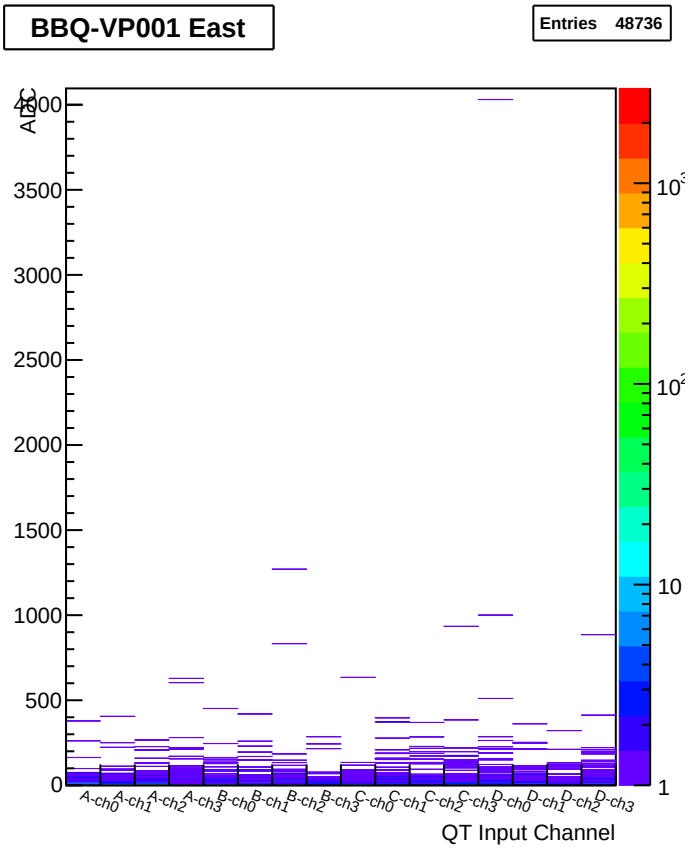

BBQ-BB001 (BBC east small tiles TAC)
Entries 48736
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

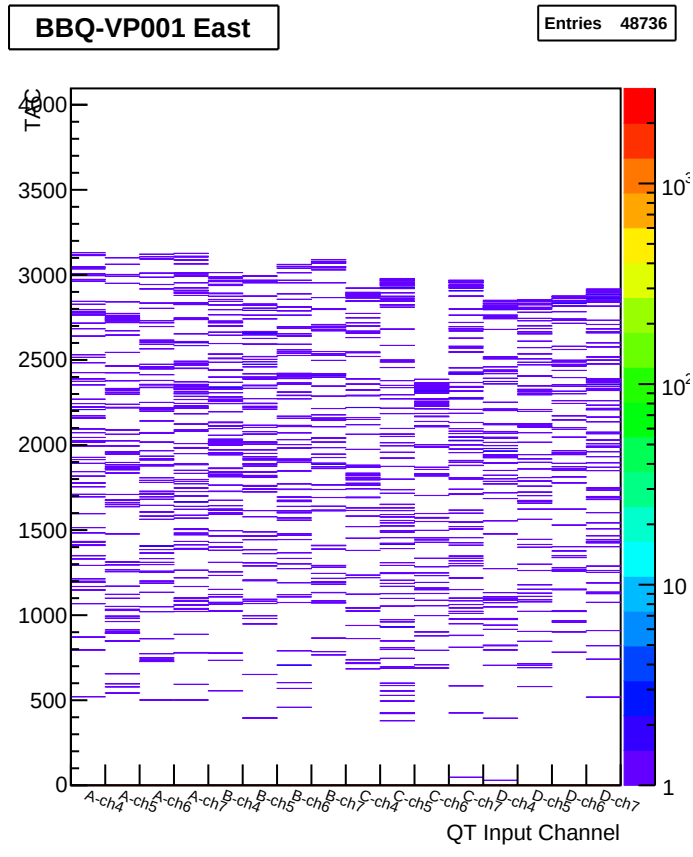

BBQ-BB002 (BBC west small tiles ADC)
Entries 48736
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

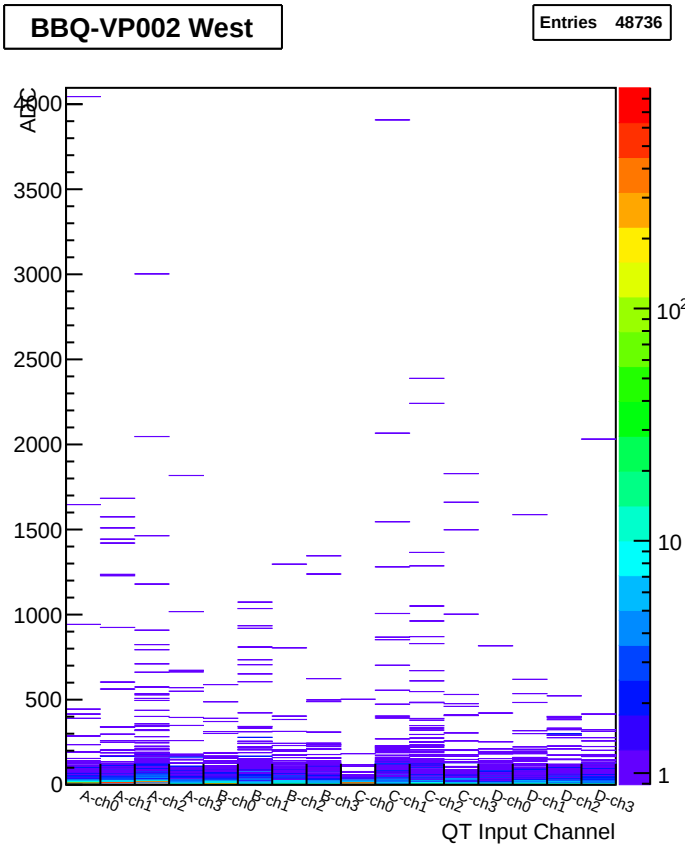

BBQ-BB002 (BBC west small tiles TAC)
Entries 48736
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

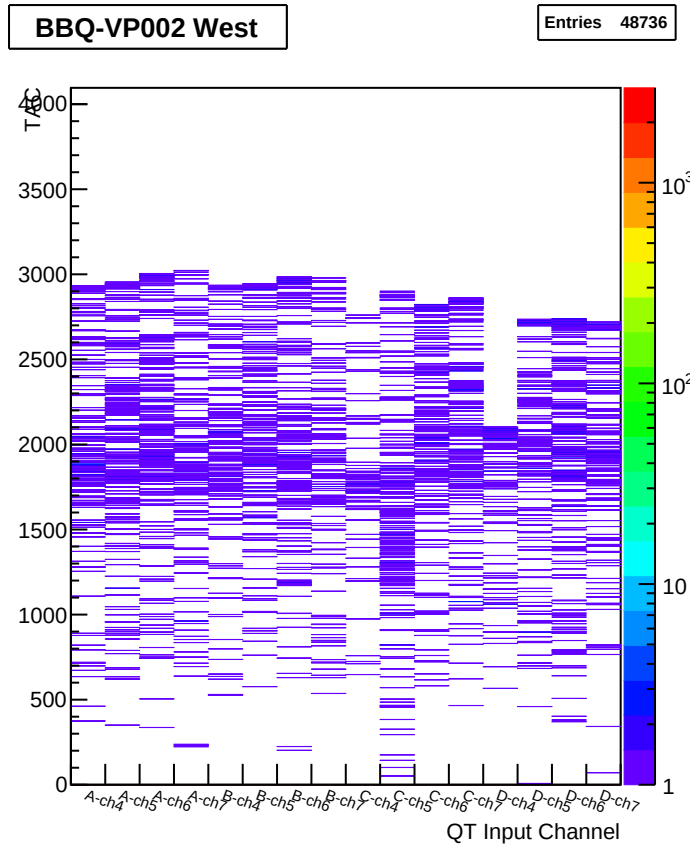

BBQ-ZD001 (ZDC TOWER)
Entries 48736
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

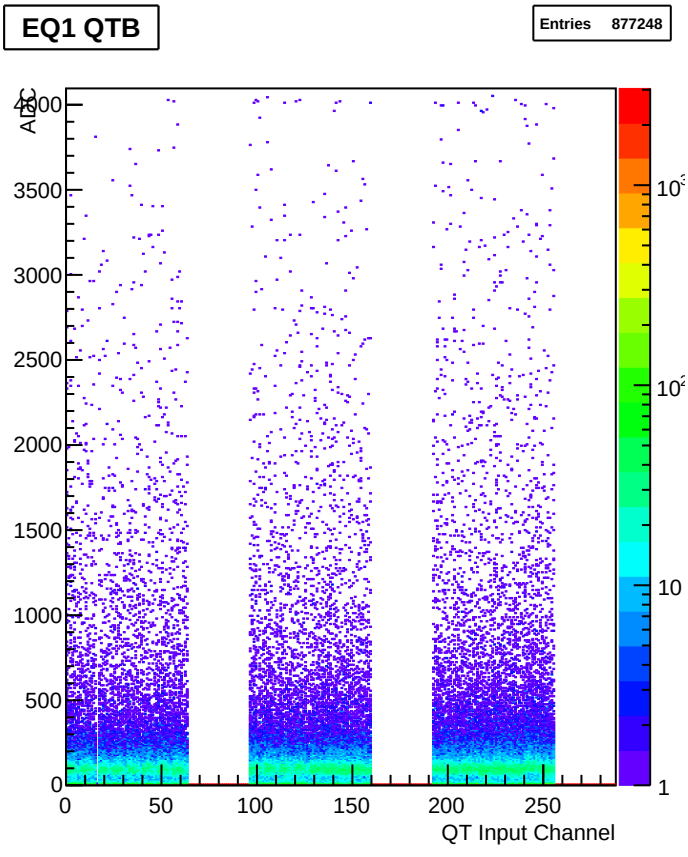

BBQ-ZD001 (ZDC TOWER)
Entries 48736
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

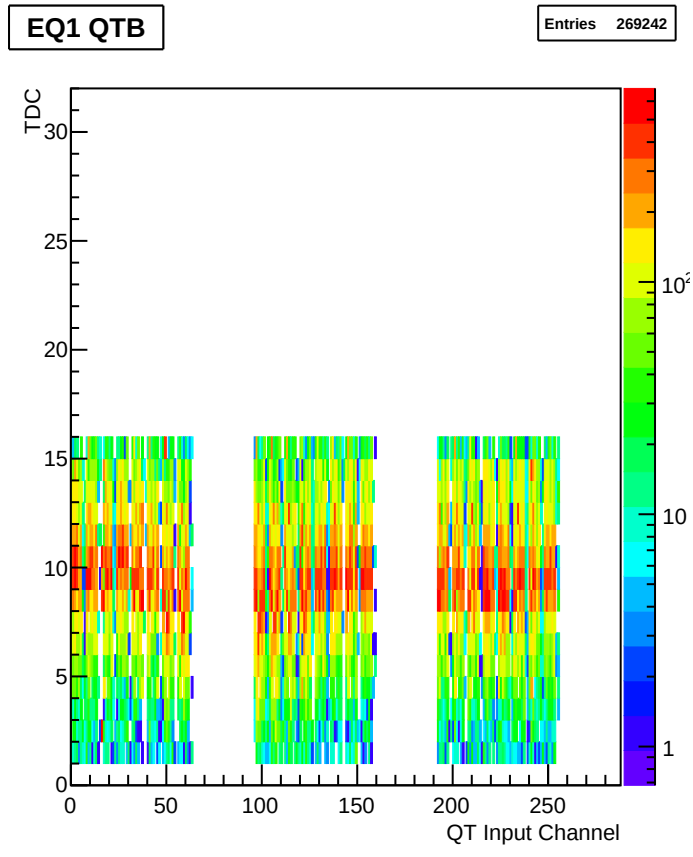

BBQ-VP001 East
Entries 48736
ADC
QT Input Channel

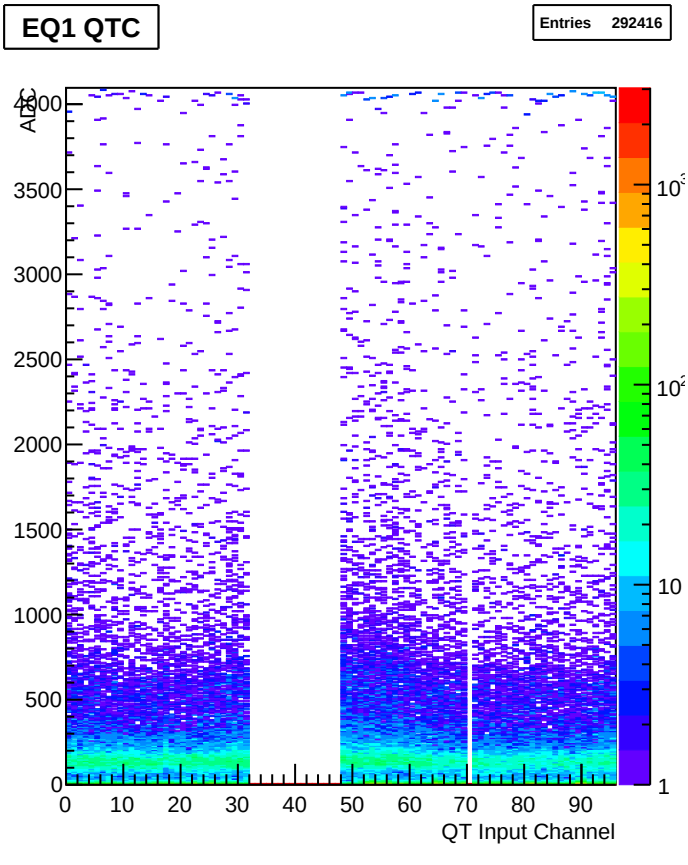

BBQ-VP001 East
Entries 48736
TADC
QT Input Channel

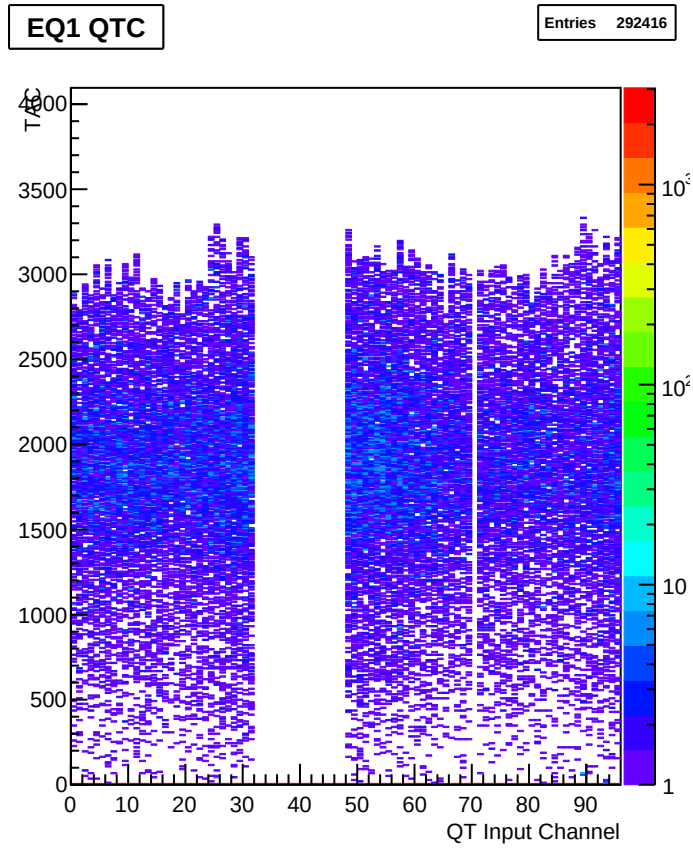

BBQ-VP002 West
Entries 48736
ADC
QT Input Channel

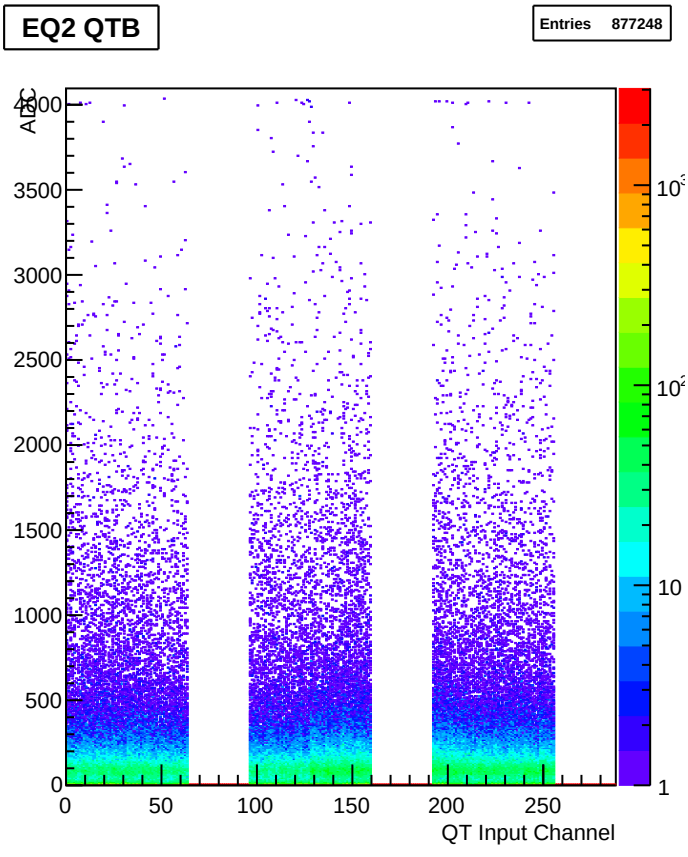

BBQ-VP002 West
Entries 48736
TADC
QT Input Channel

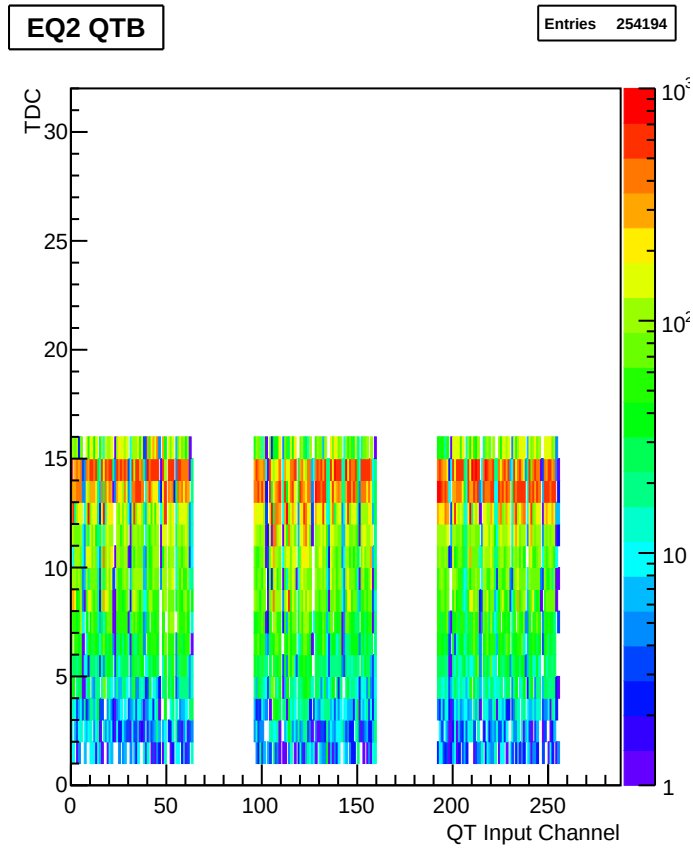

EQ1 QTB
Entries 877248
ADC
QT Input Channel

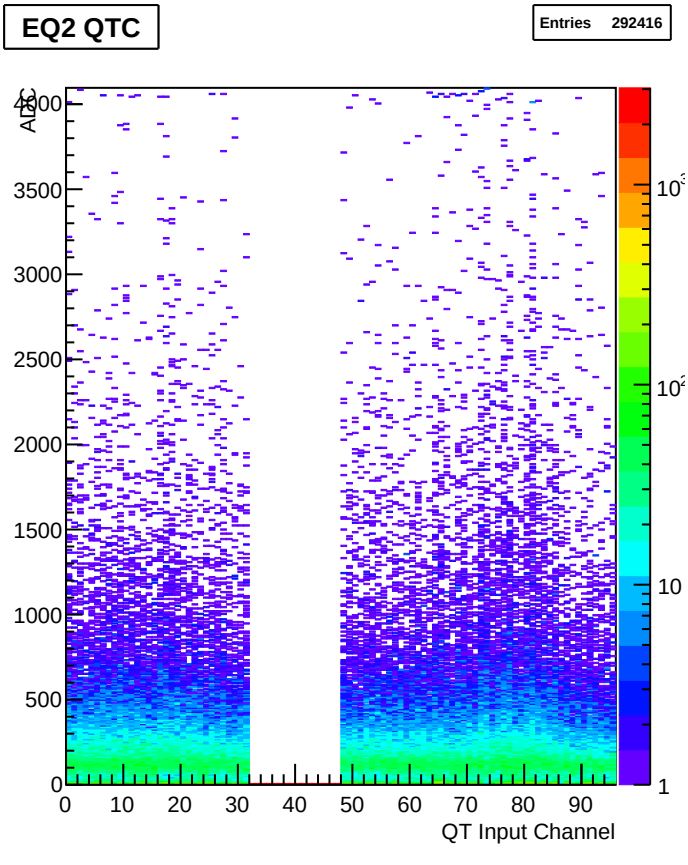

EQ1 QTB
Entries 269242
TDC
QT Input Channel

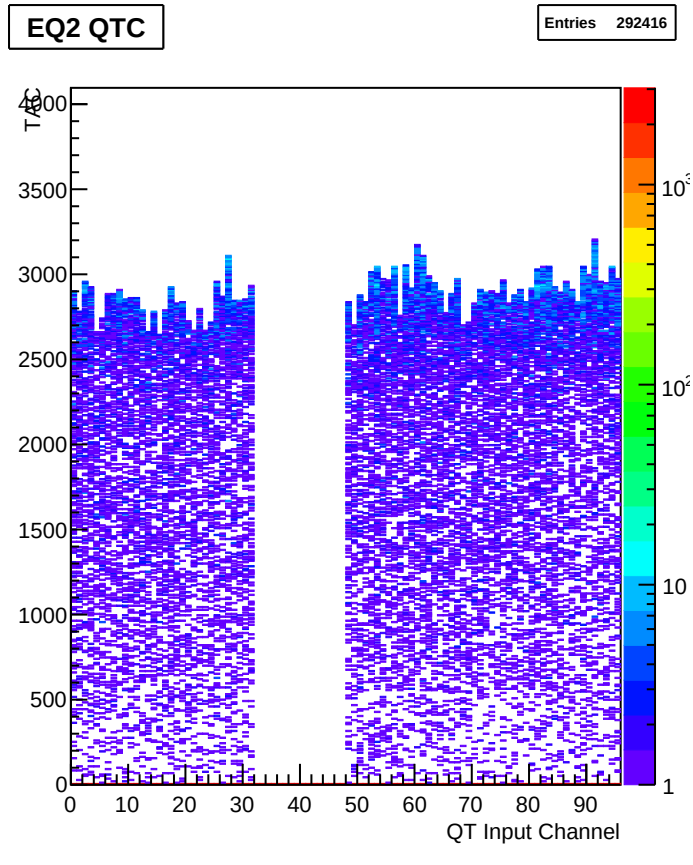

EQ1 QTC
Entries 292416
ADC
QT Input Channel

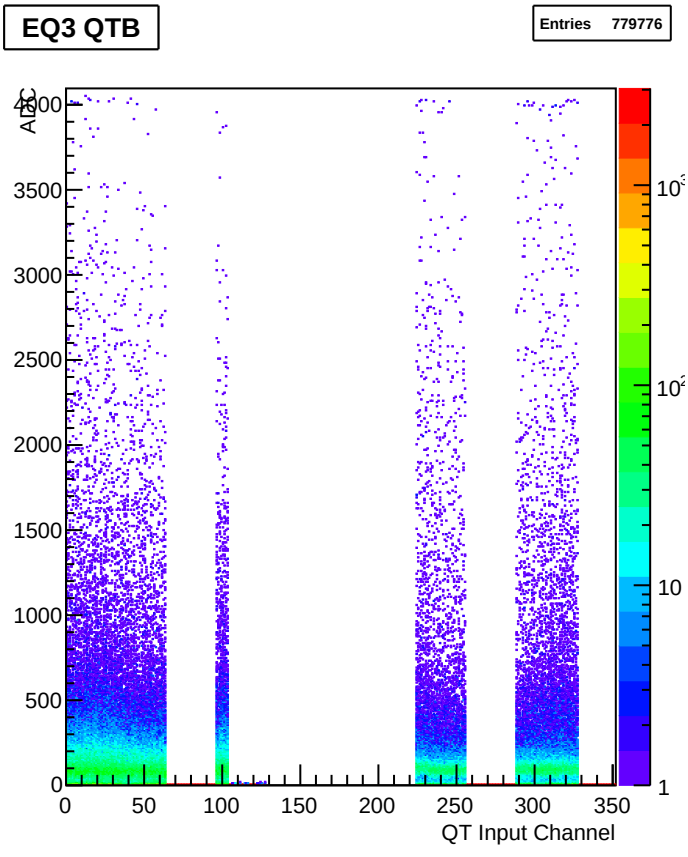

EQ1 QTC
Entries 292416
TADC
QT Input Channel

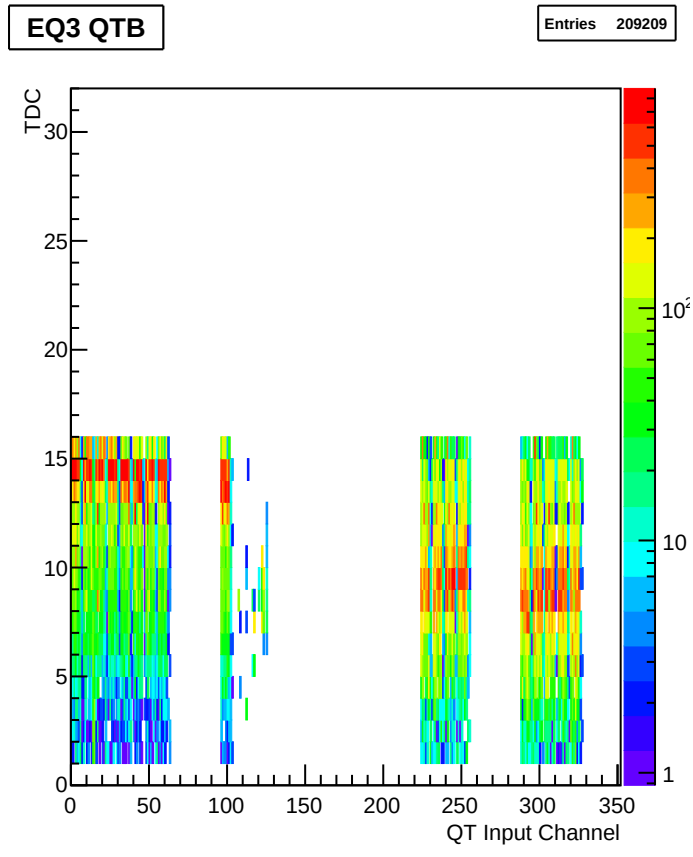

EQ2 QTB
Entries 877248
ADC
QT Input Channel

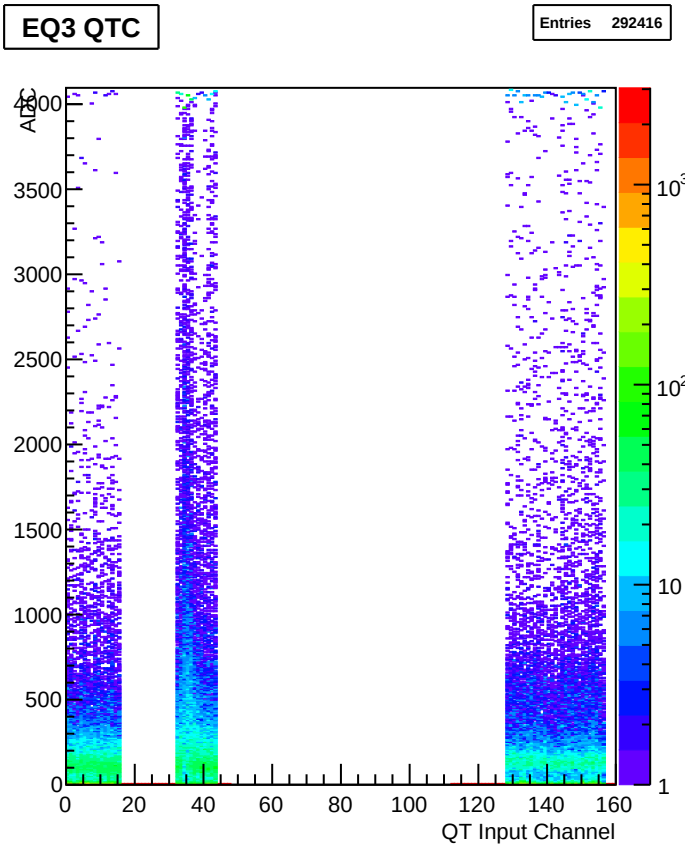

EQ2 QTB
Entries 254194
TDC
QT Input Channel

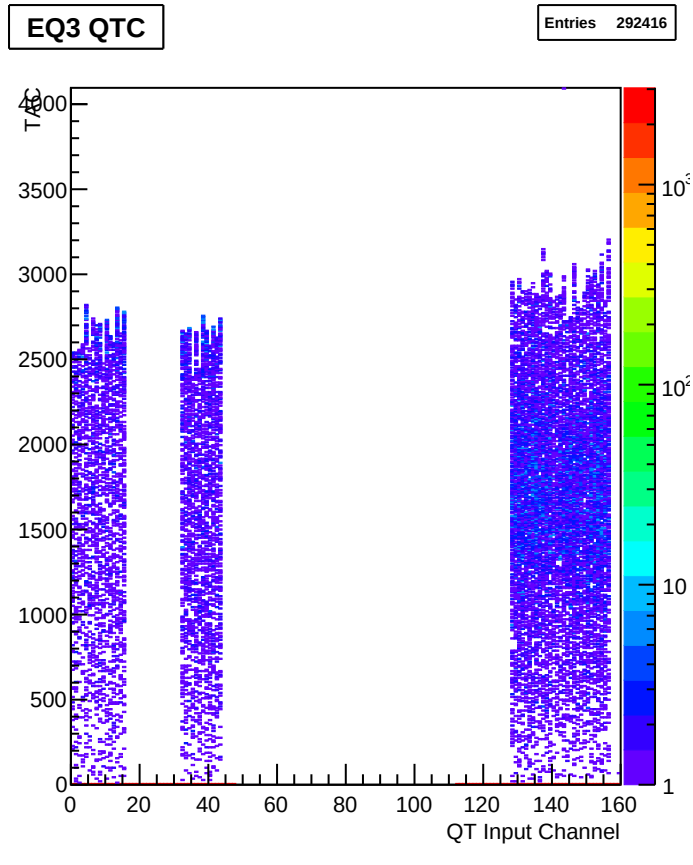

EQ2 QTC
Entries 292416
ADC
QT Input Channel

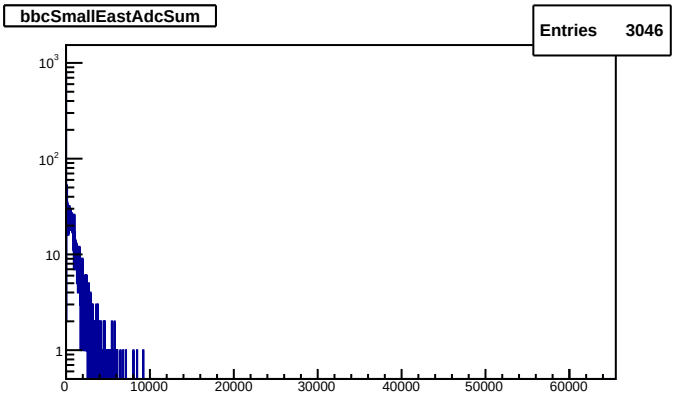

EQ2 QTC
Entries 292416
TADC
QT Input Channel

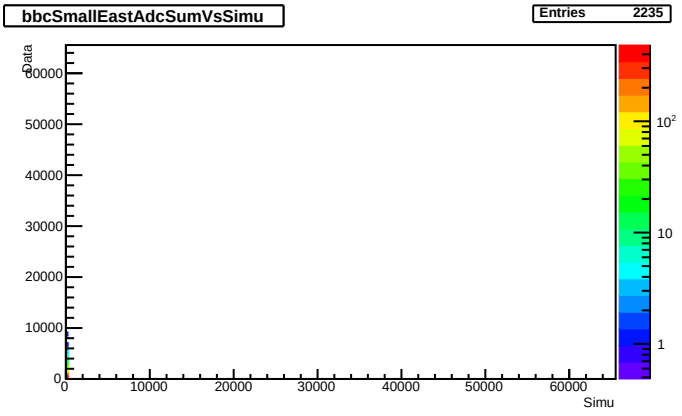

EQ3 QTB
Entries 779776
ADC
QT Input Channel

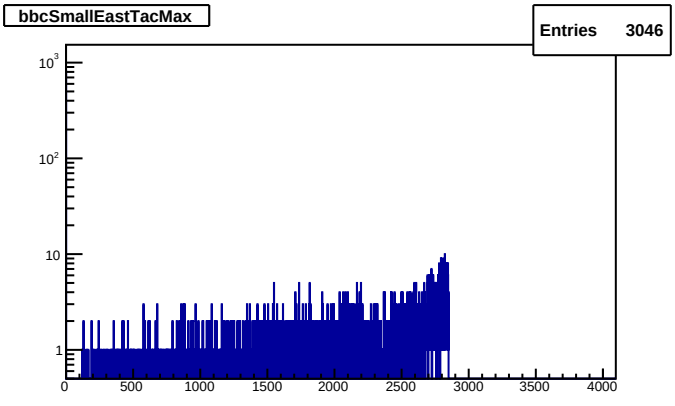

EQ3 QTB
Entries 209209
TDC
QT Input Channel

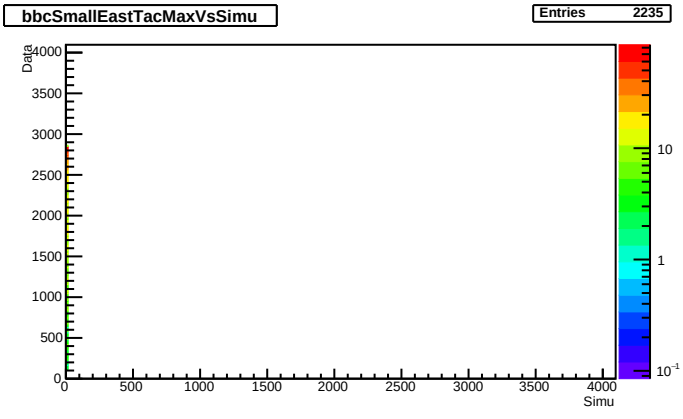

EQ3 QTC
Entries 292416
ADC
QT Input Channel

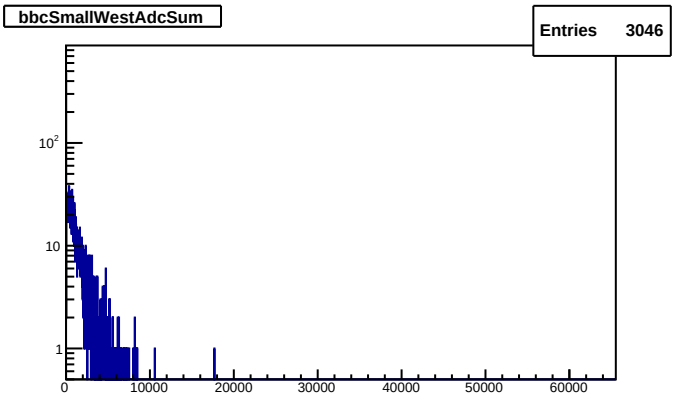

EQ3 QTC
Entries 292416
TADC
QT Input Channel

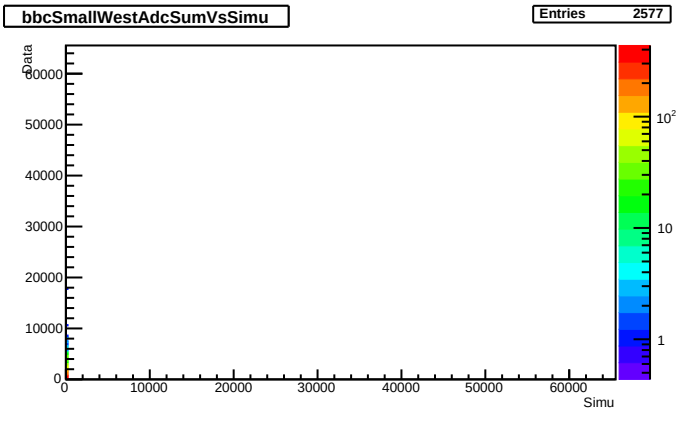

bbcSmallEastAdcSum
Entries 3046

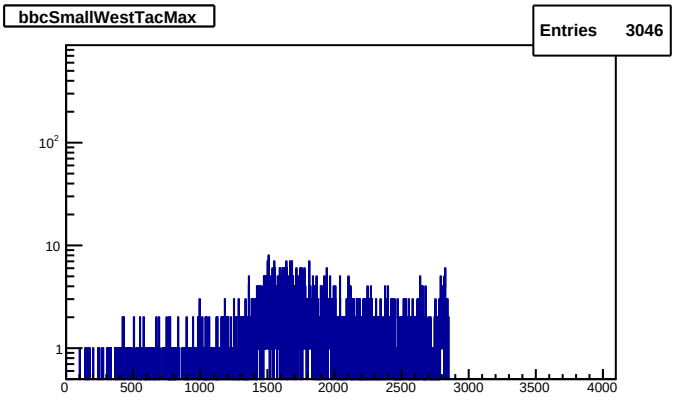

bbcSmallEastAdcSumVsSimu
Entries 2235
Data
Simu

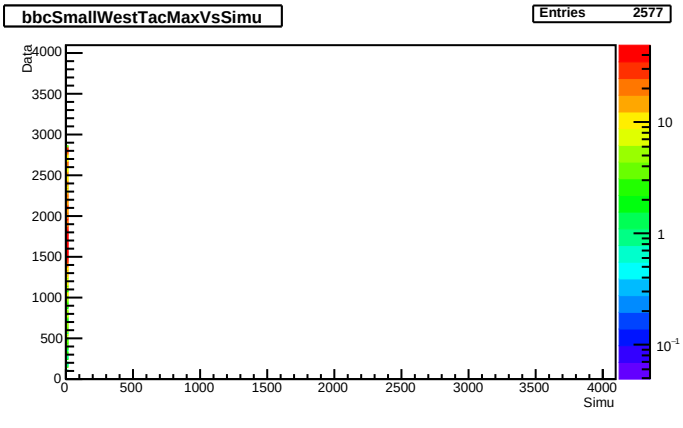

bbcSmallEastTacMax
Entries 3046

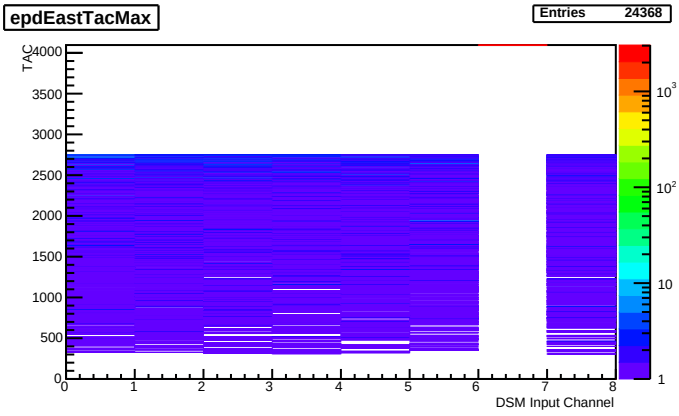

bbcSmallEastTacMaxVsSimu
Entries 2235
Data
Simu

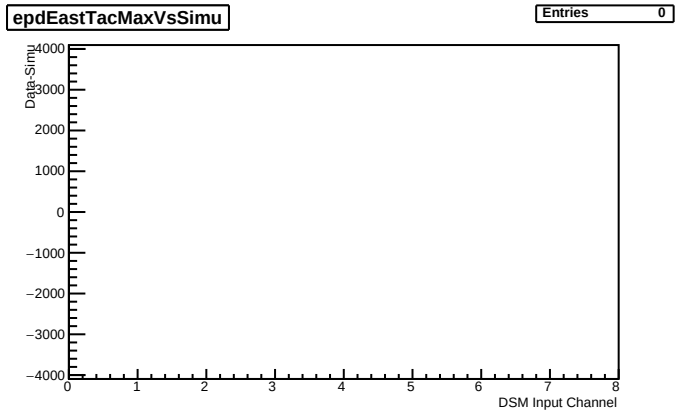

bbcSmallWestAdcSum
Entries 3046

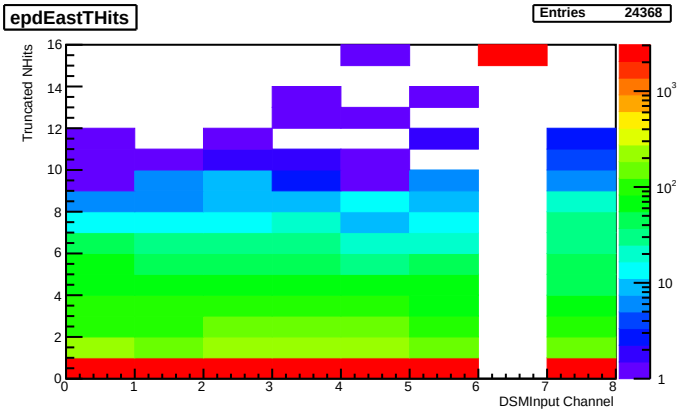

bbcSmallWestAdcSumVsSimu
Entries 2577
Data
Simu

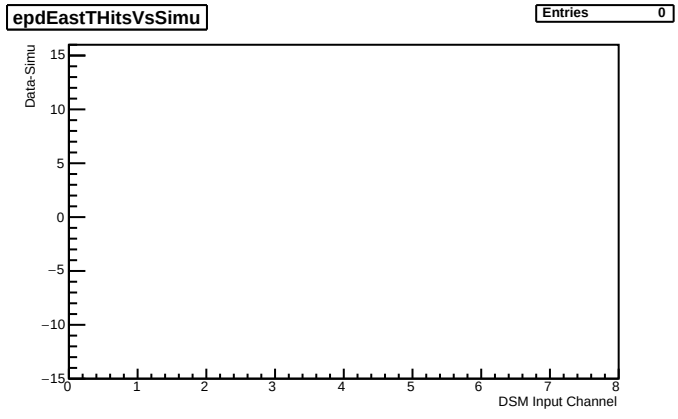

bbcSmallWestTacMax
Entries 3046

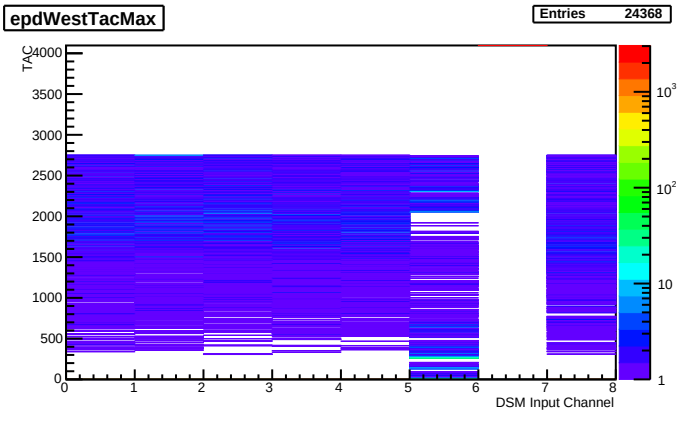

bbcSmallWestTacMaxVsSimu
Entries 2577
Data
Simu

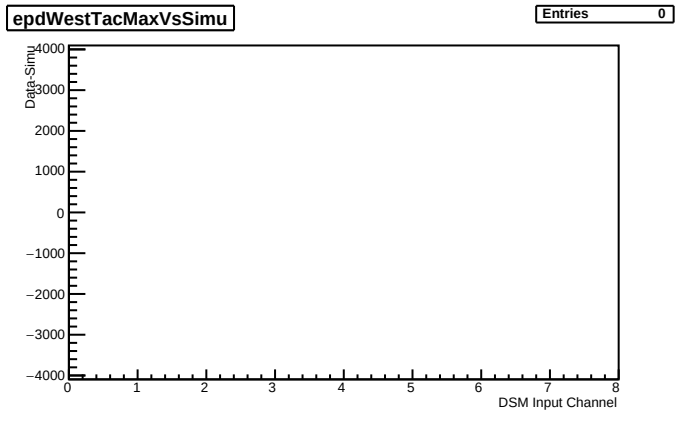

epdEastTacMax
Entries 24368
TAC
DSM Input Channel

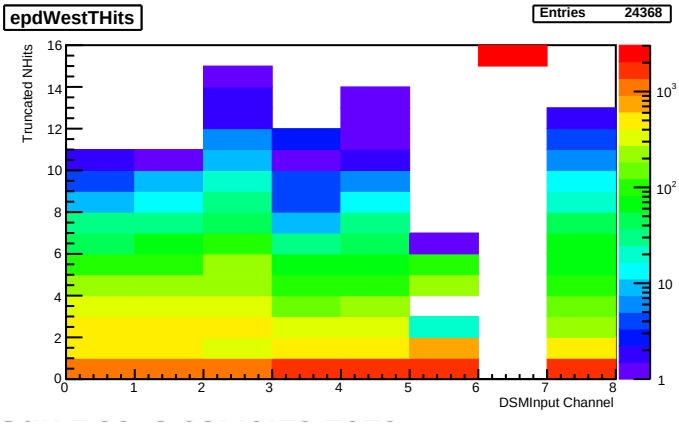

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

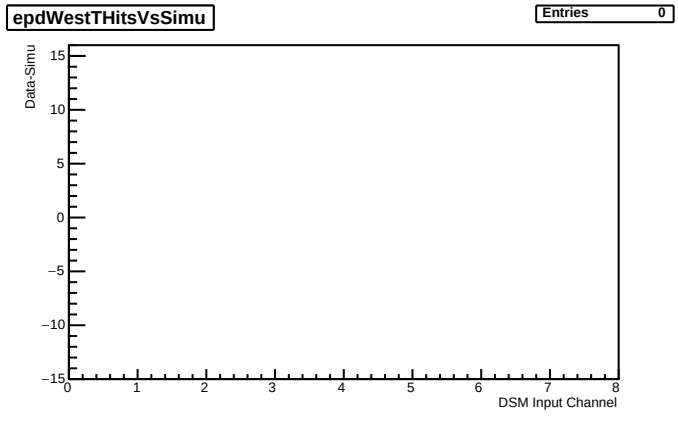

epdEastTHits
Entries 24368
Truncated NHits
DSMInput Channel

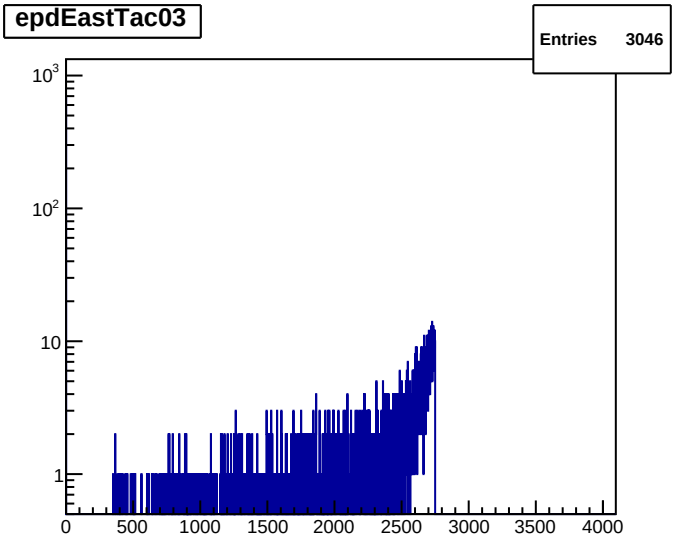

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

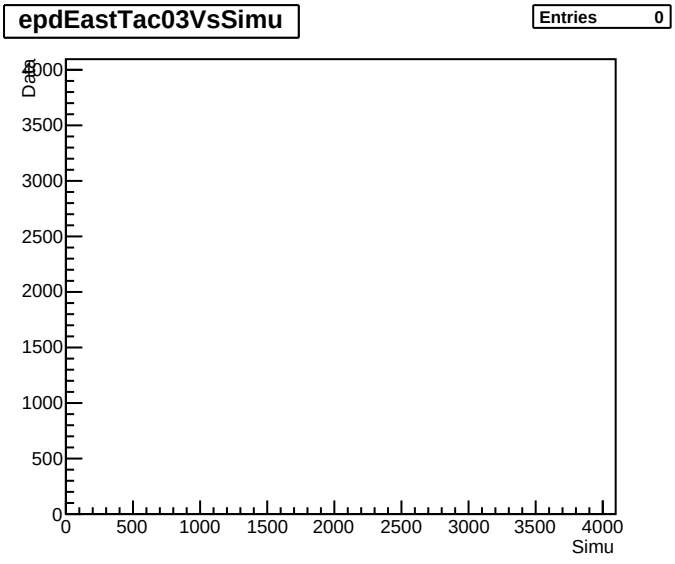

epdWestTacMax
Entries 24368
TAC
DSM Input Channel

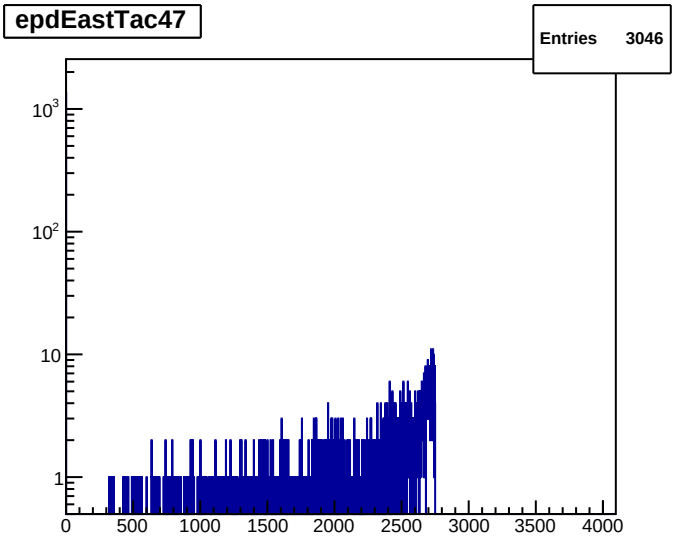

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

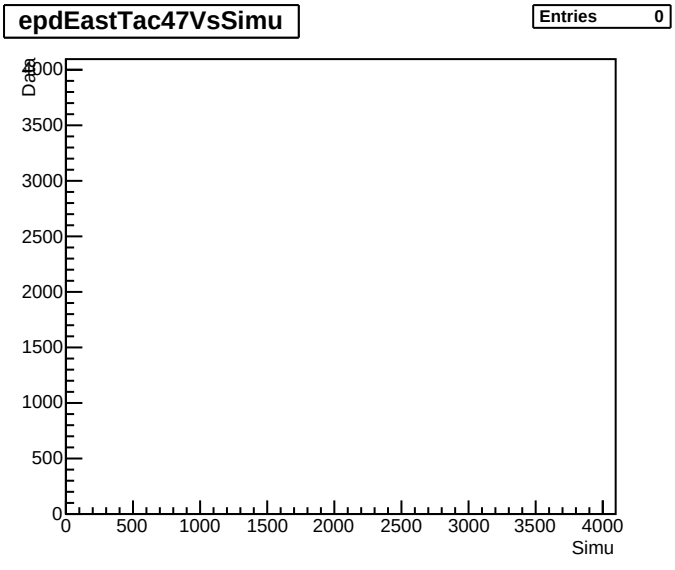

epdWestTHits
Entries 24368
Truncated NHits
DSMInput Channel

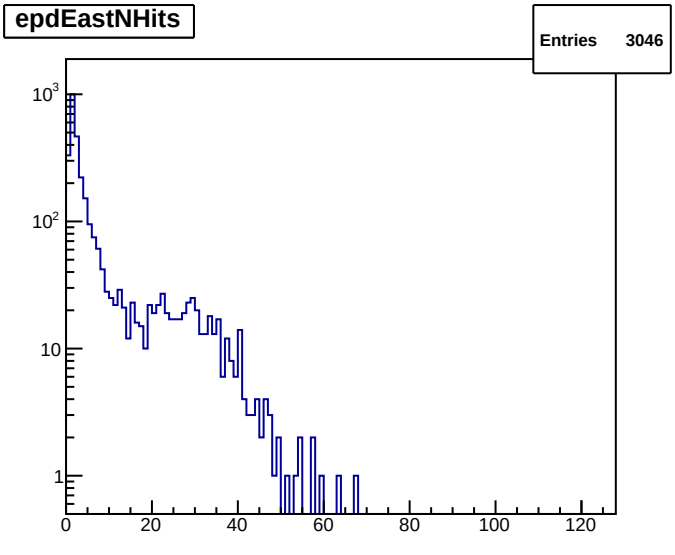

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

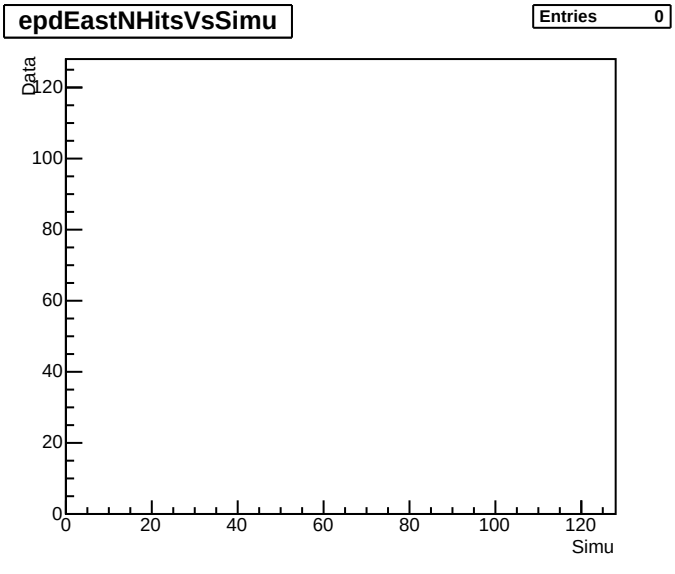

epdEastTac03
Entries 3046

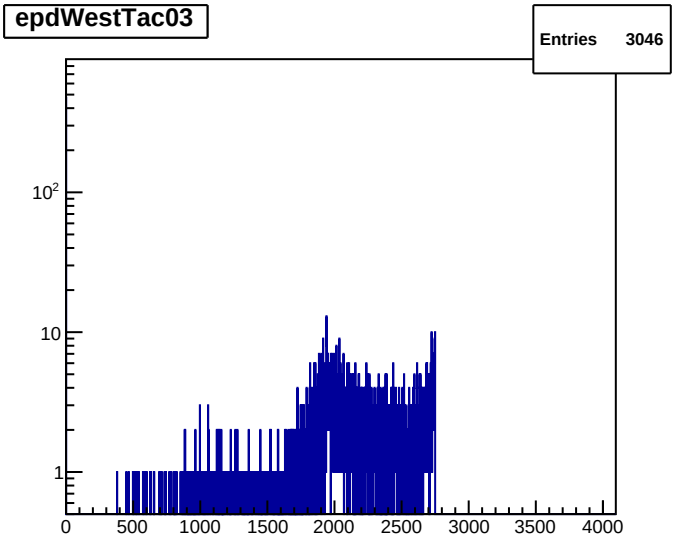

epdEastTac03VsSimu
Entries 0
Data
Simu

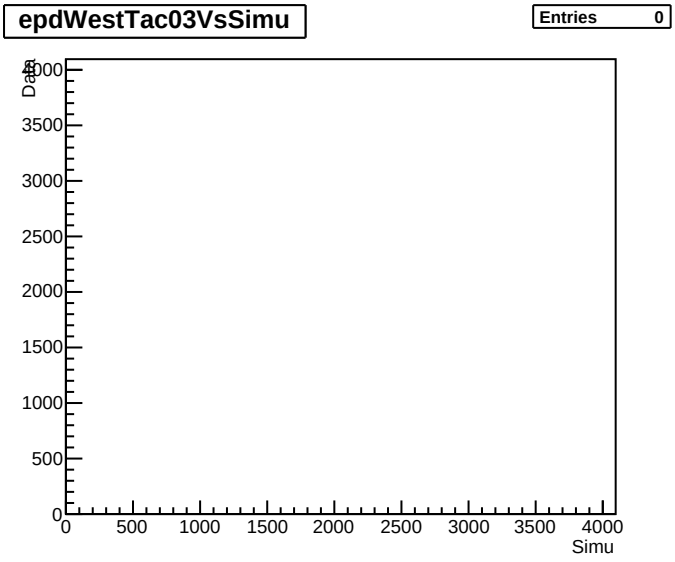

epdEastTac47
Entries 3046

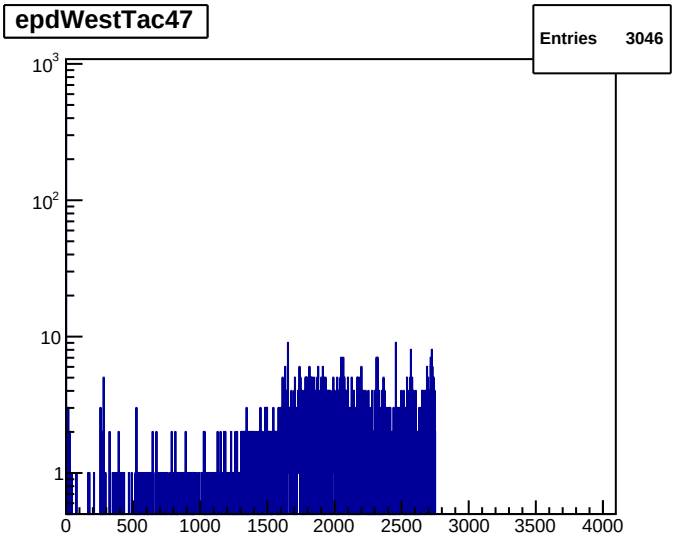

epdEastTac47VsSimu
Entries 0
Data
Simu

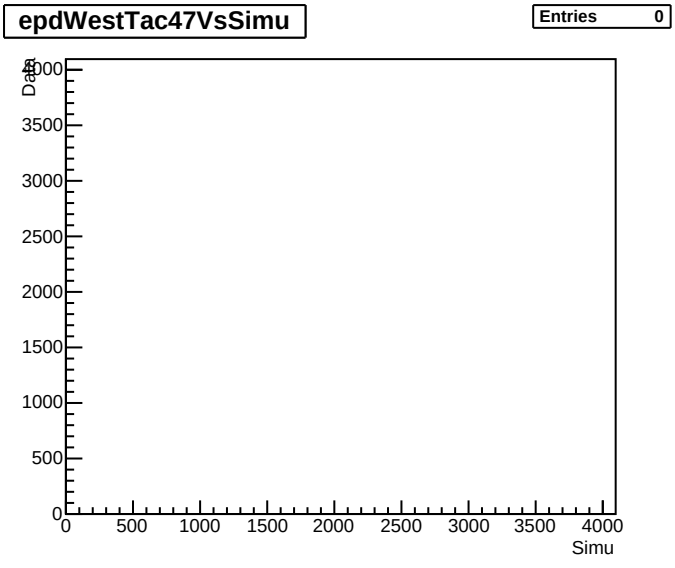

epdEastNHits
Entries 3046

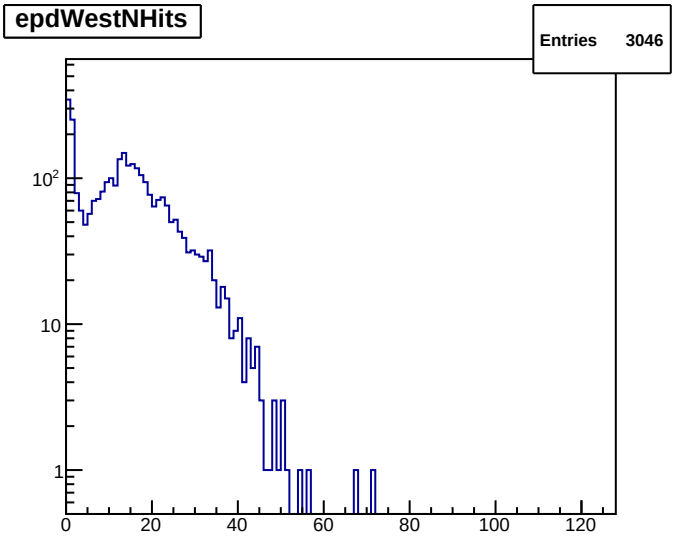

epdEastNHitsVsSimu
Entries 0
Data
Simu

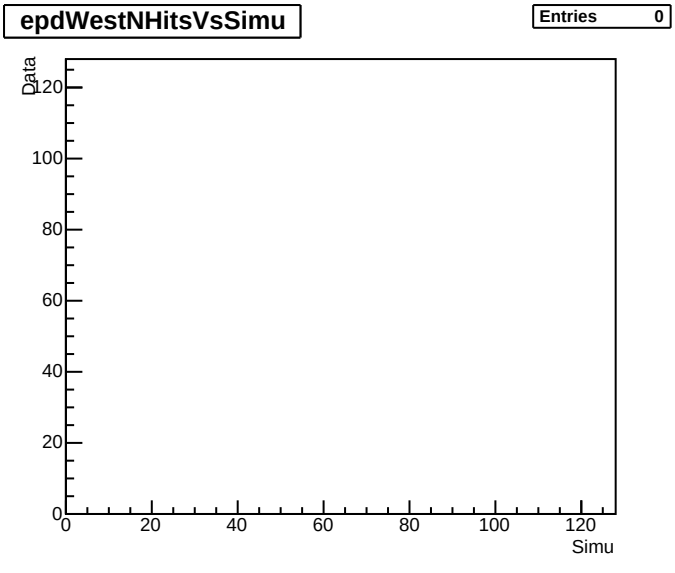

epdWestTac03
Entries 3046

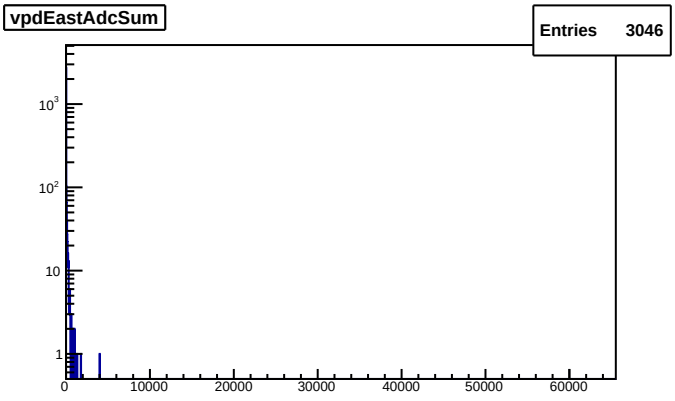

epdWestTac03VsSimu
Entries 0
Data
Simu

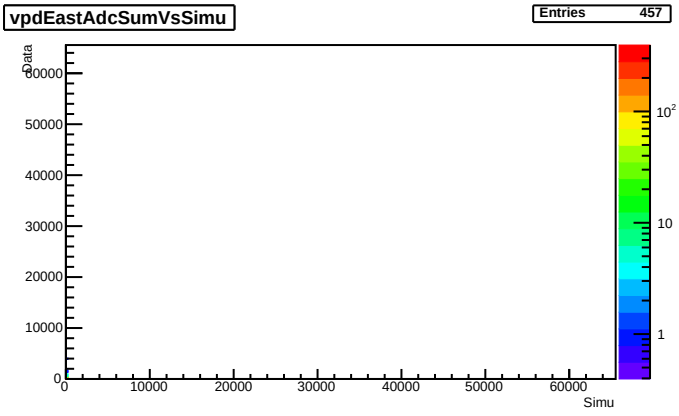

epdWestTac47
Entries 3046

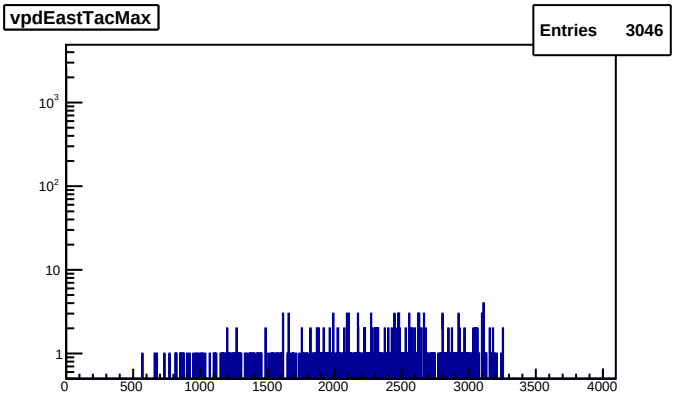

epdWestTac47VsSimu
Entries 0
Data
Simu

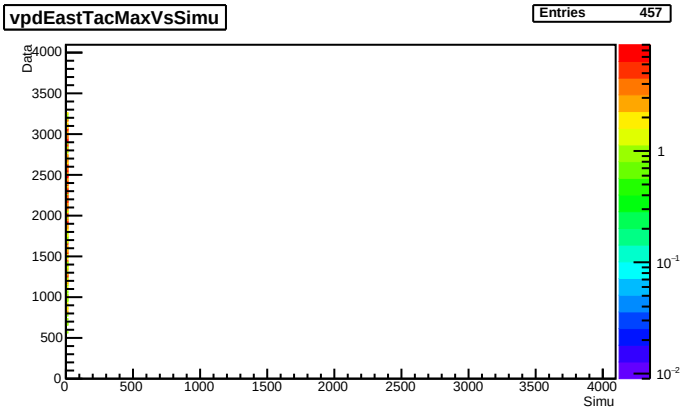

epdWestNHits
Entries 3046

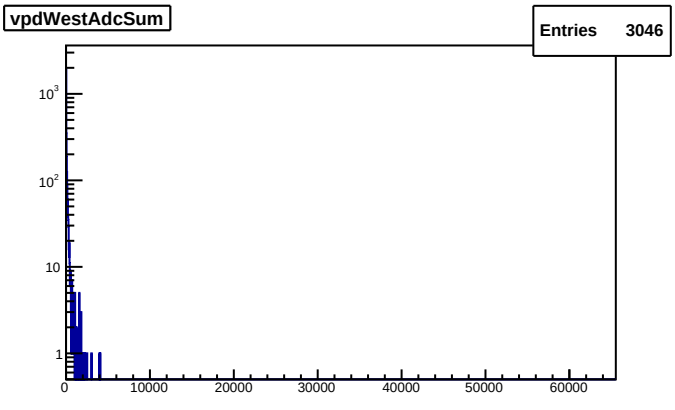

epdWestNHitsVsSimu
Entries 0
Data
Simu

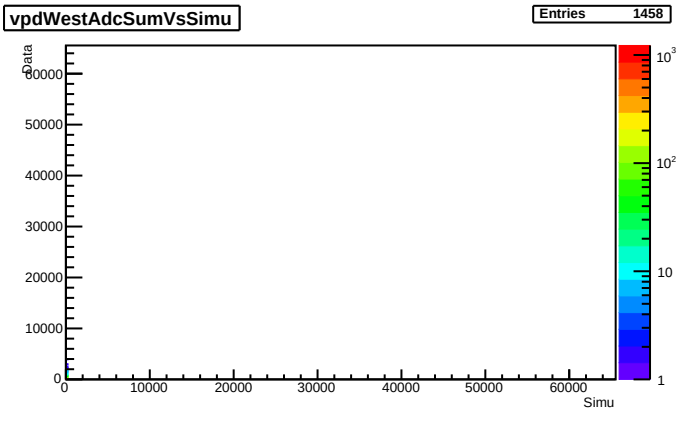

vpdEastAdcSum
Entries 3046

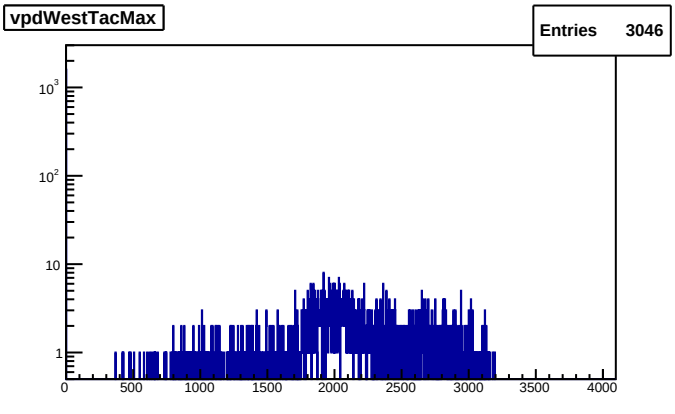

vpdEastAdcSumVsSimu
Entries 457
Data
Simu

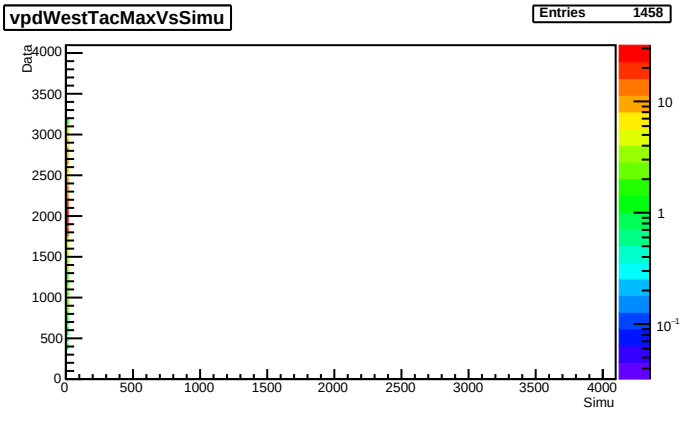

vpdEastTacMax
Entries 3046

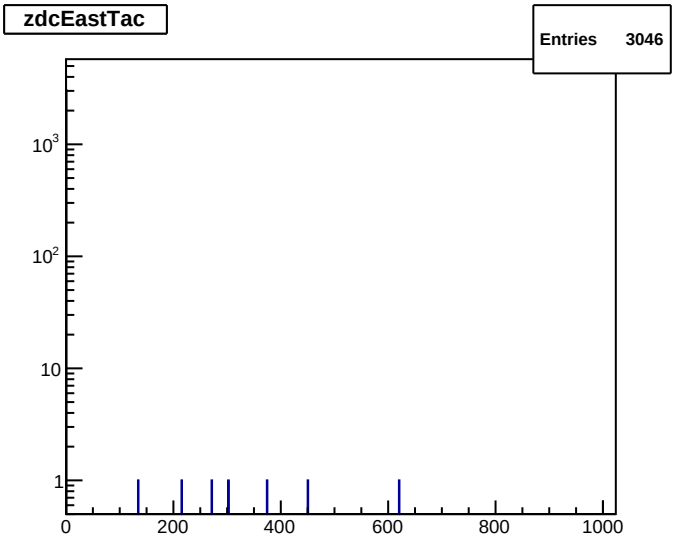

vpdEastTacMaxVsSimu
Entries 457
Data
Simu

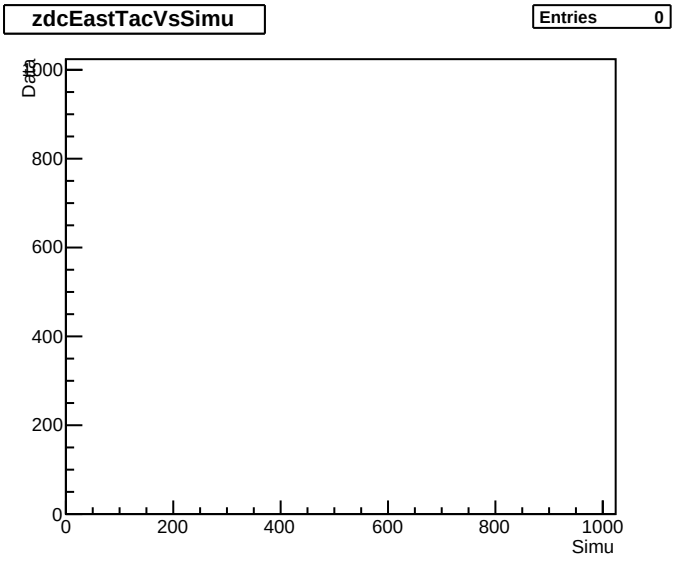

vpdWestAdcSum
Entries 3046

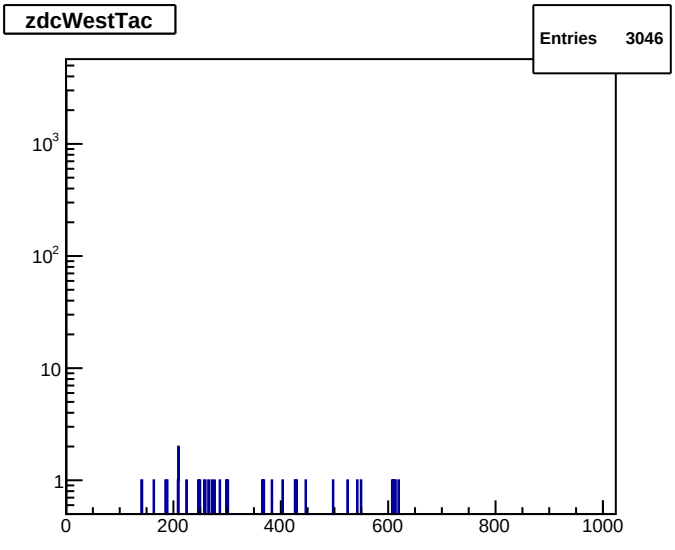

vpdWestAdcSumVsSimu
Entries 1458
Data
Simu

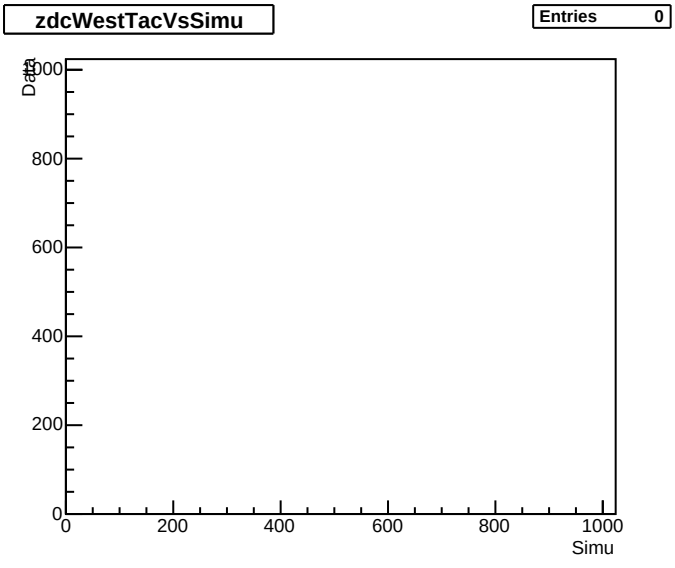

vpdWestTacMax
Entries 3046

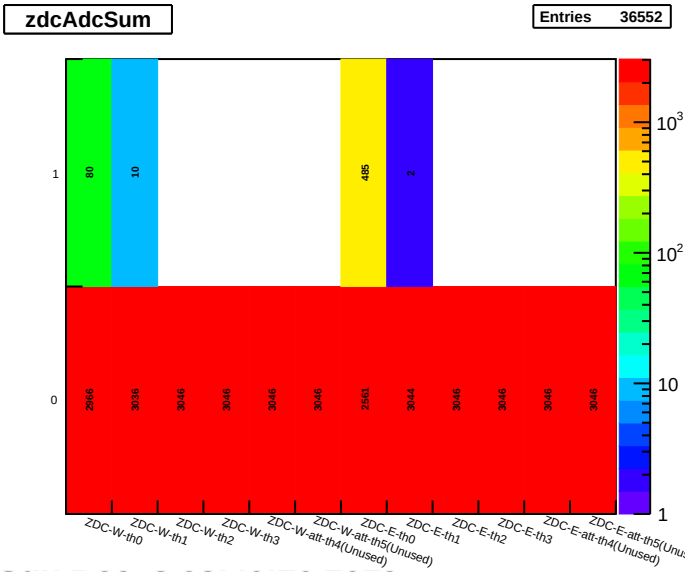

vpdWestTacMaxVsSimu
Entries 1458
Data
Simu

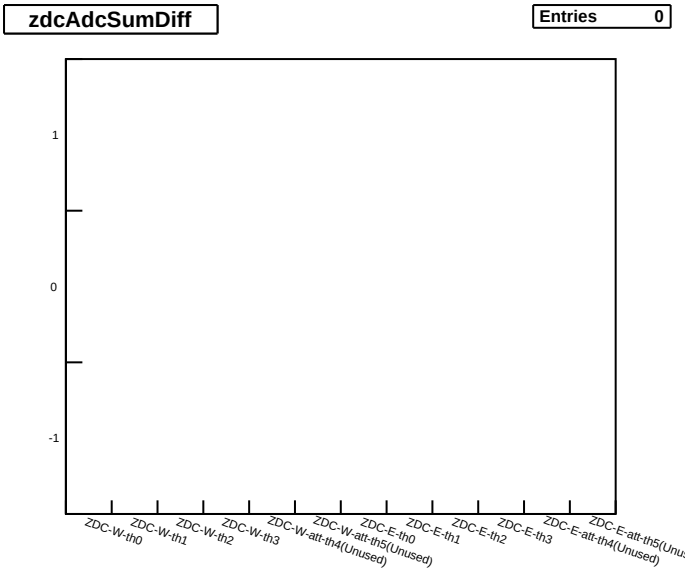

zdcEastTac
Entries 3046
10^3
10^2
10
1
0
200
400
600
800
1000

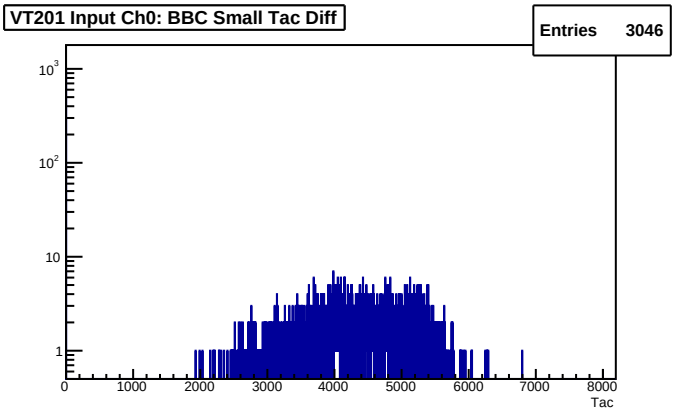

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

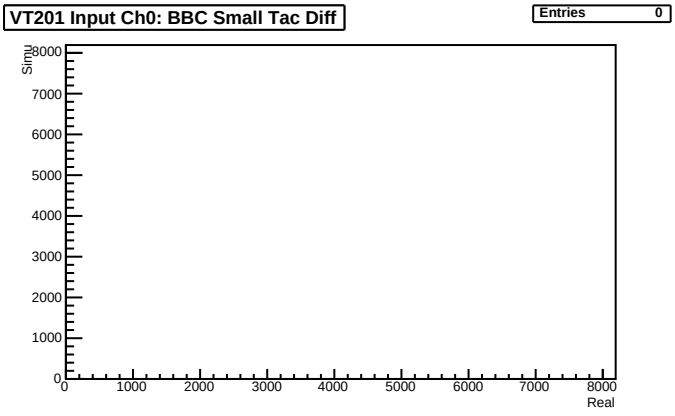

zdcWestTac
Entries 3046
10^3
10^2
10
1
0
200
400
600
800
1000

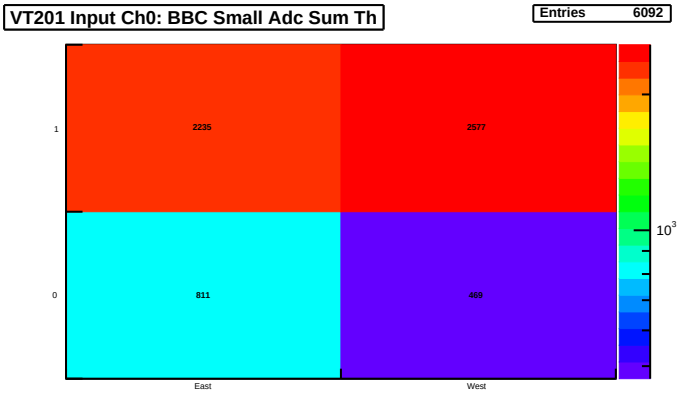

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

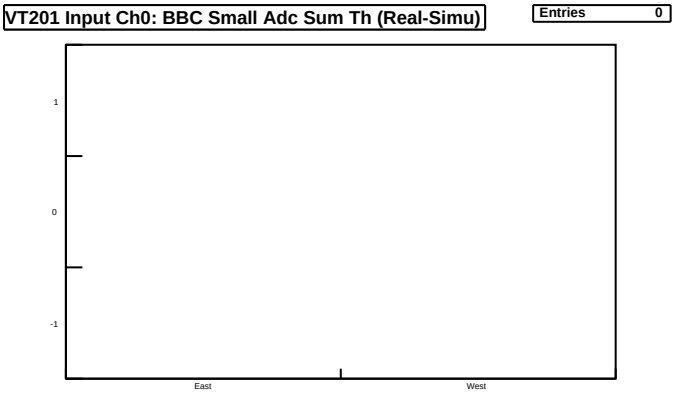

zdcAdcSum
Entries 36552
1
0
80
10
485
2
2966
3036
3046
3046
3046
3046
2561
3044
3046
3046
3046
3046
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

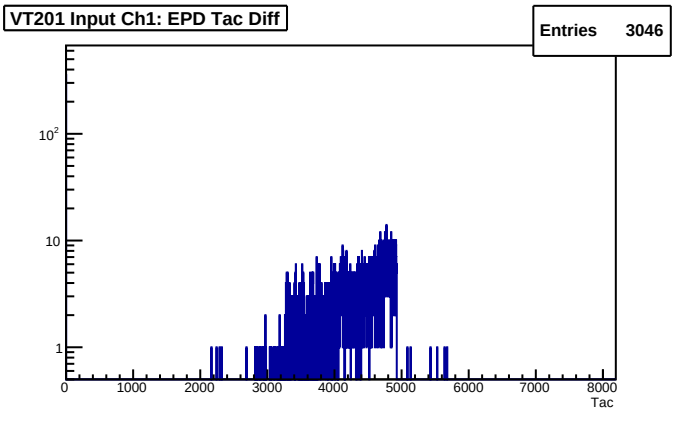

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

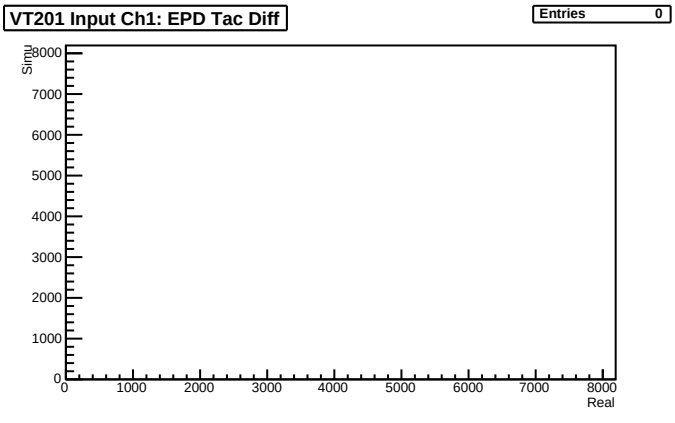

VT201 Input Ch0: BBC Small Tac Diff
Entries 3046
Tac

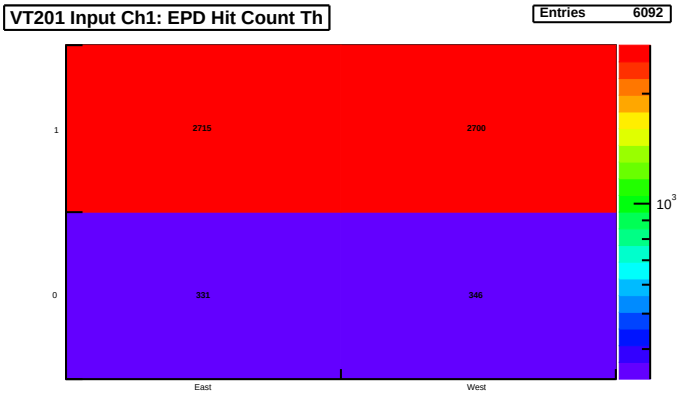

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

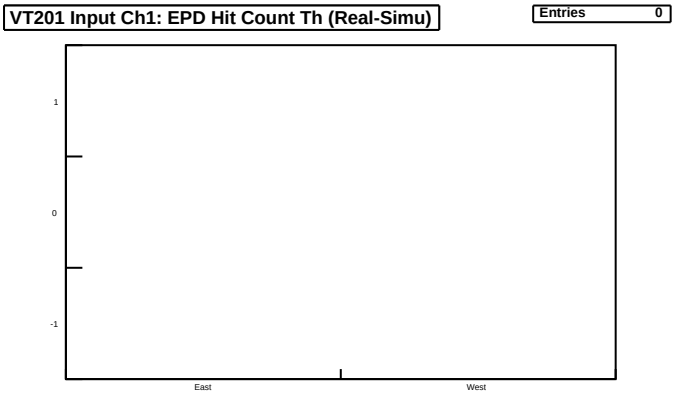

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 6092
2235
2577
811
469
East
West

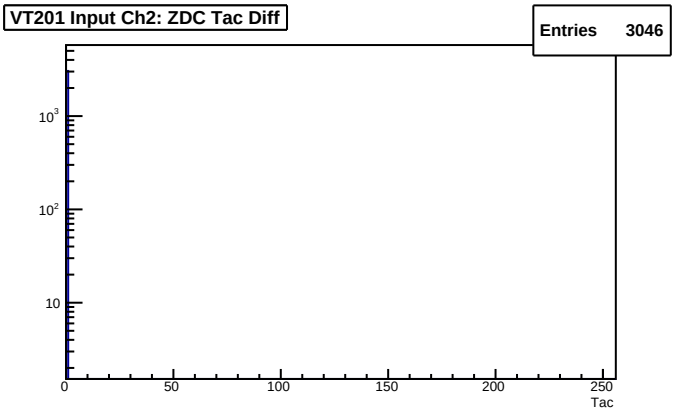

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

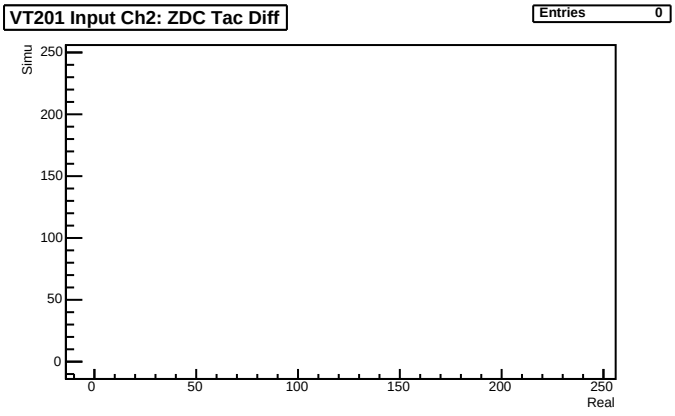

VT201 Input Ch1: EPD Tac Diff
Entries 3046
Tac

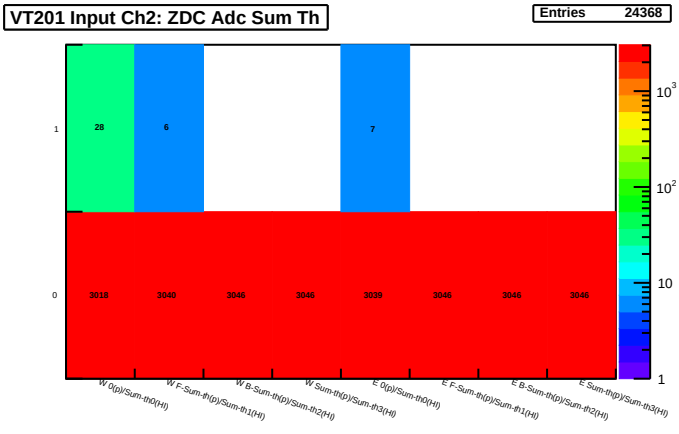

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

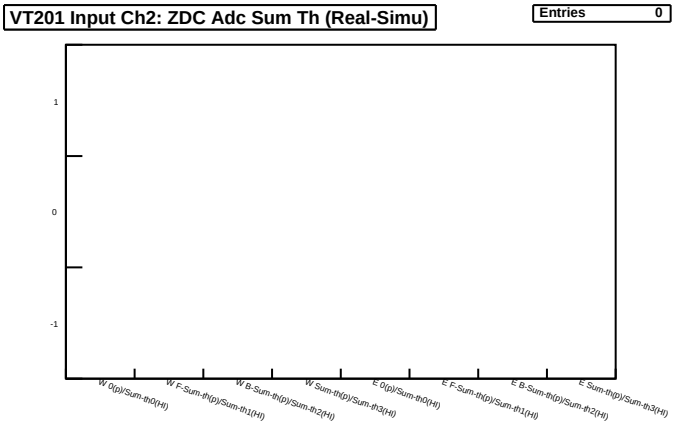

VT201 Input Ch1: EPD Hit Count Th
Entries 6092
2715
2700
331
346
East
West

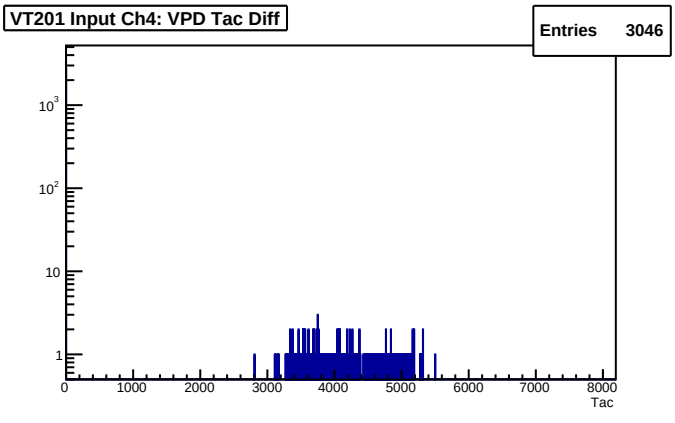

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

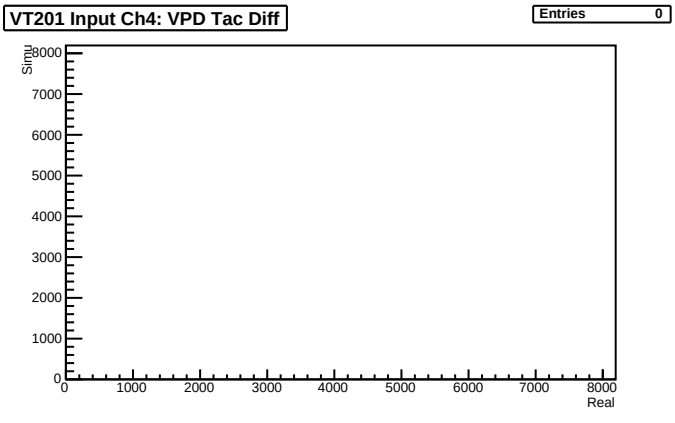

VT201 Input Ch2: ZDC Tac Diff
Entries 3046
Tac

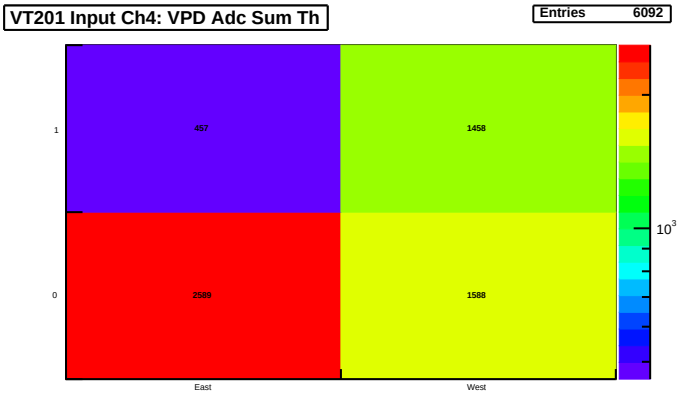

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

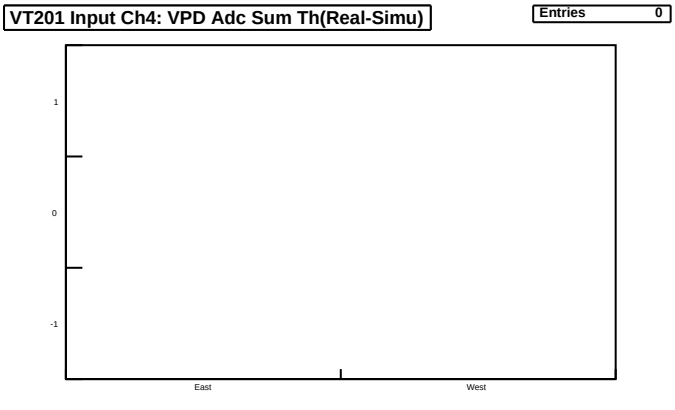

VT201 Input Ch2: ZDC Adc Sum Th
Entries 24368
28
6
7
3018
3040
3046
3046
3039
3046
3046
3046
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

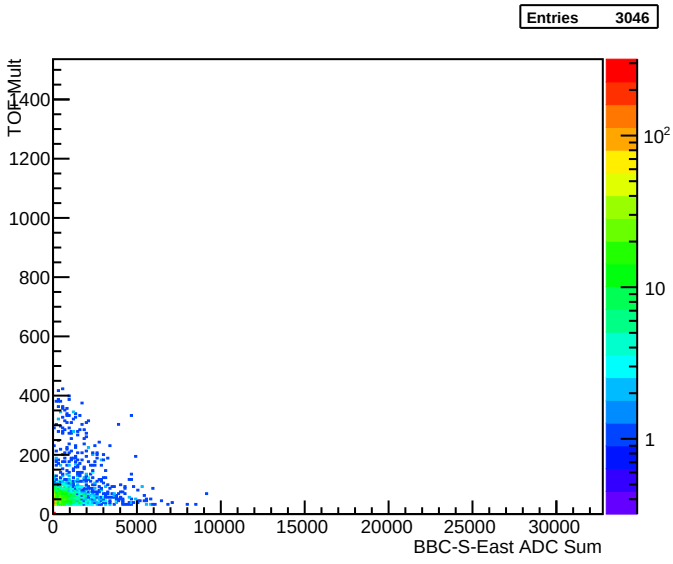

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

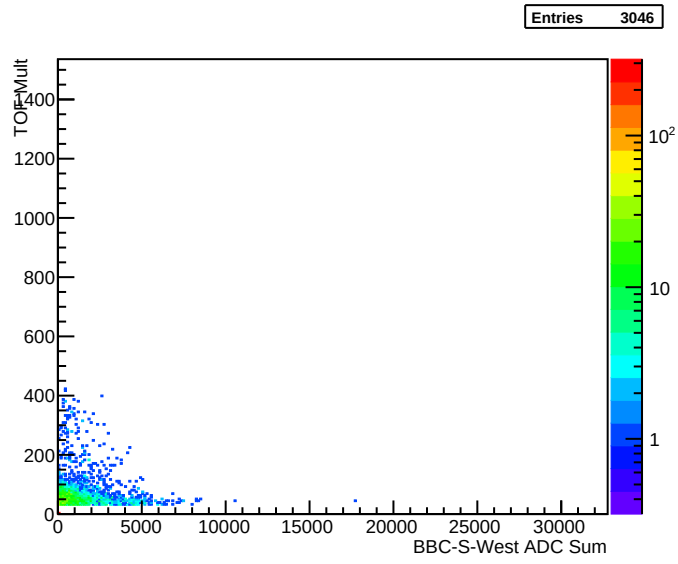

VT201 Input Ch4: VPD Tac Diff
Entries 3046
Tac

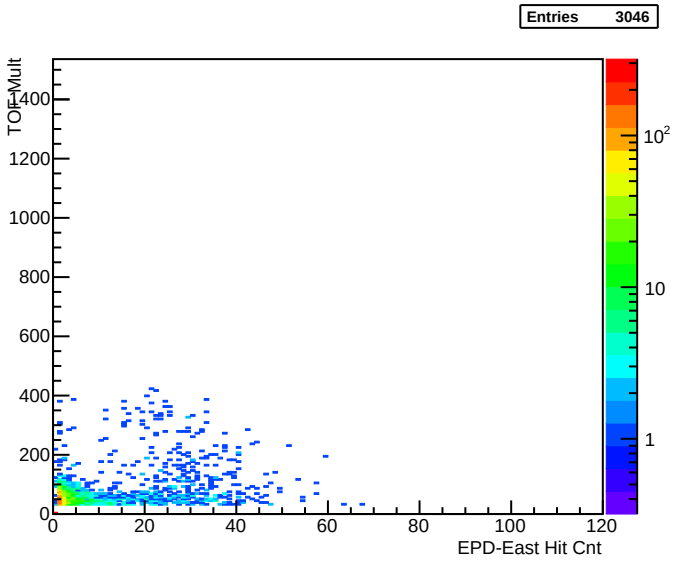

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

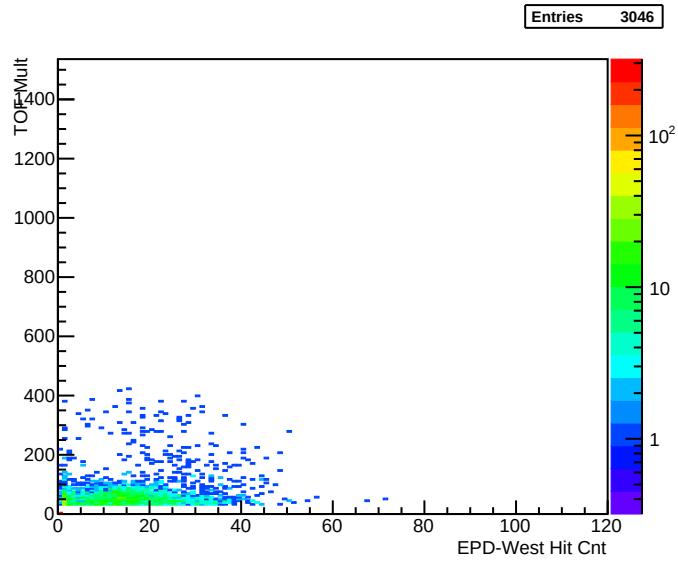

VT201 Input Ch4: VPD Adc Sum Th
Entries 6092
457
1458
2589
1588
East
West

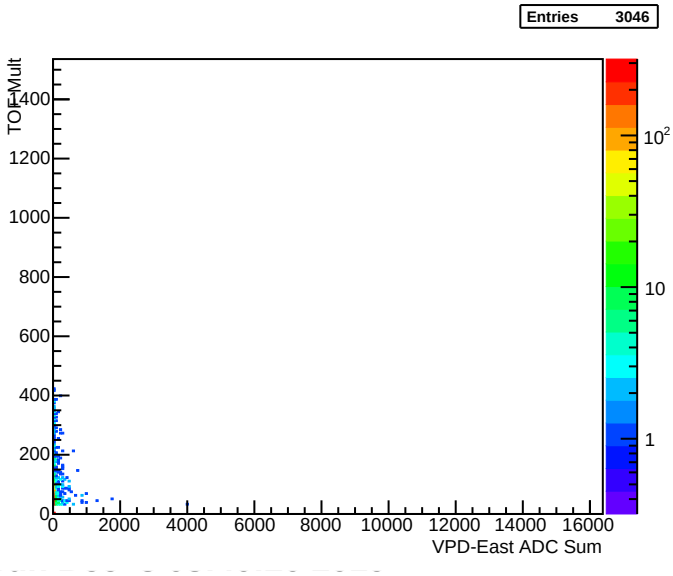

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

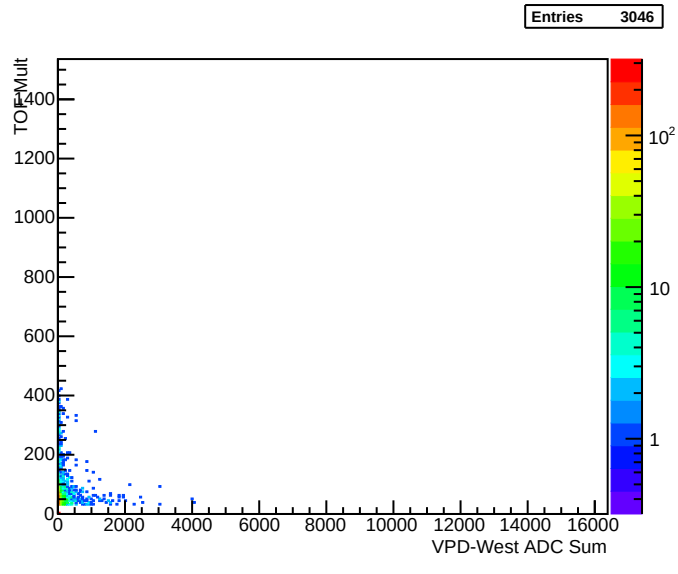

Entries 3046
TOF-Mult
BBC-S-East ADC Sum

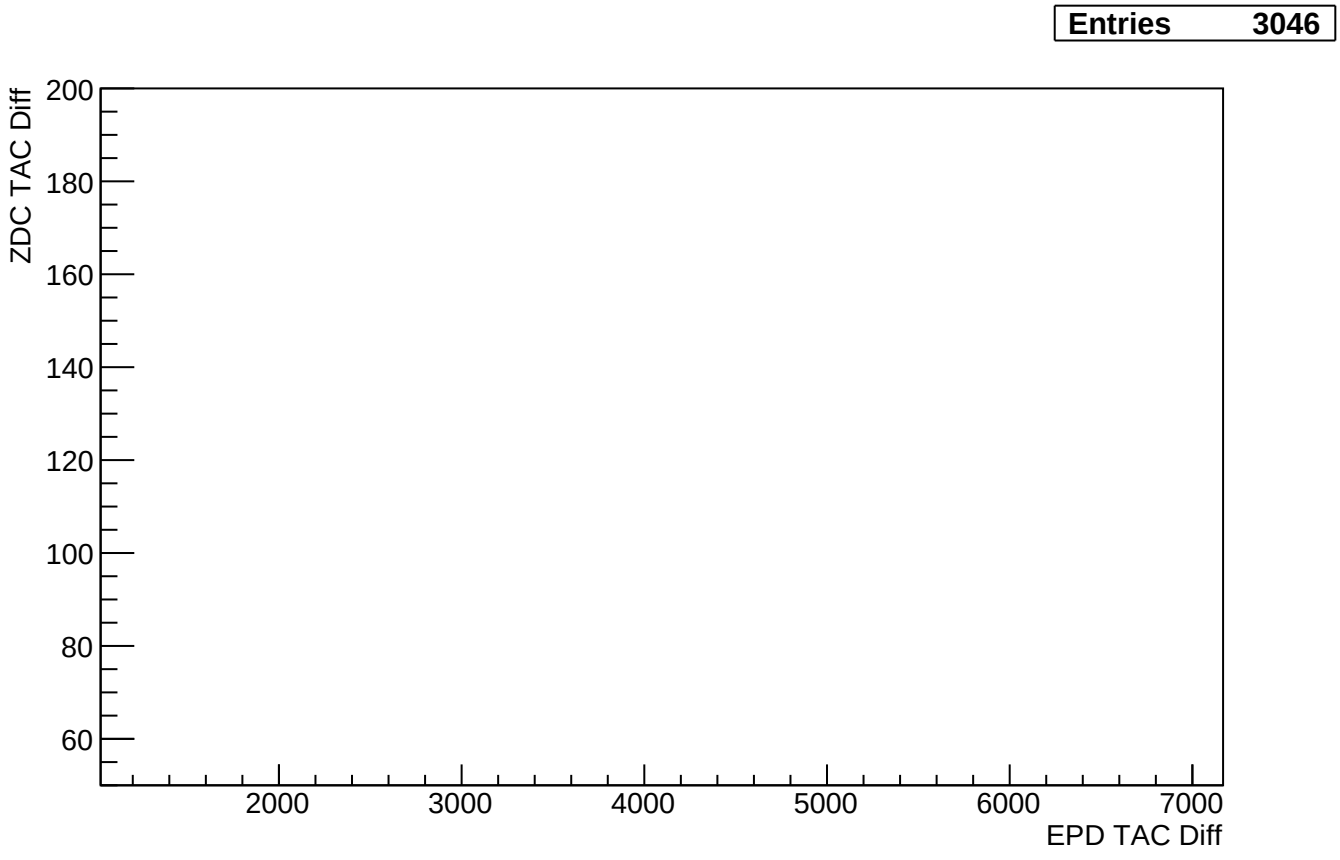

Entries 3046
TOF-Mult
BBC-S-West ADC Sum

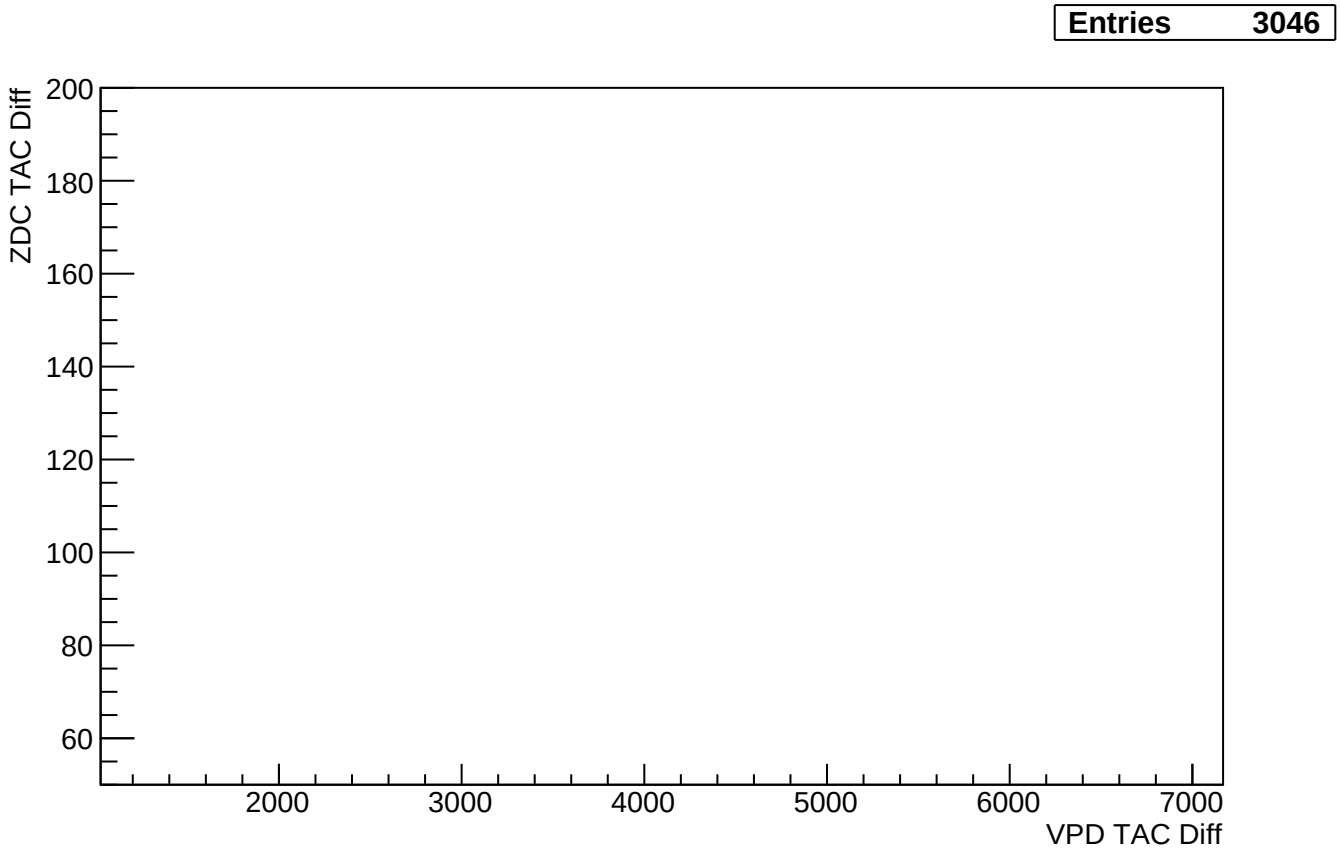

Entries 3046
TOF-Mult
EPD-East Hit Cnt

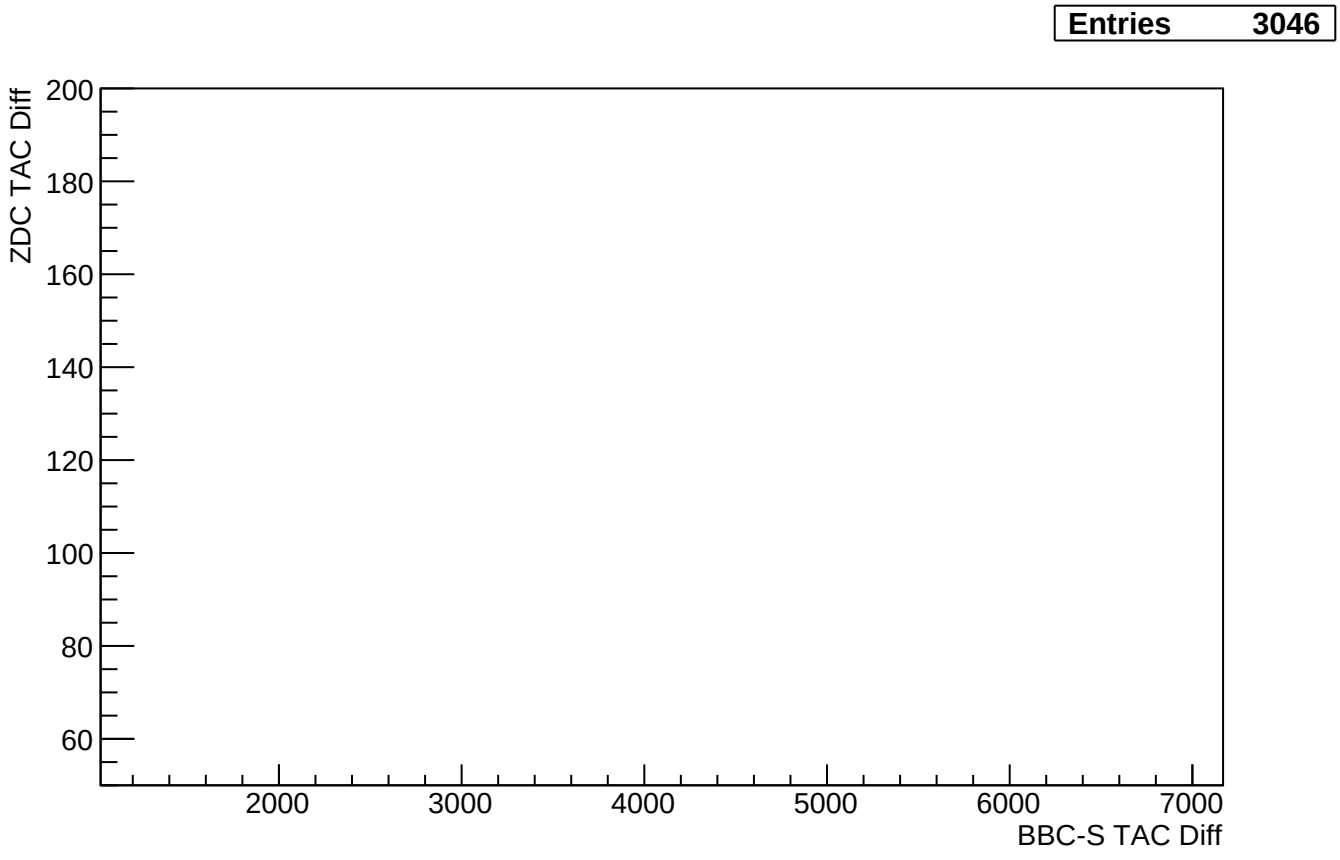

Entries 3046
TOF-Mult
EPD-West Hit Cnt

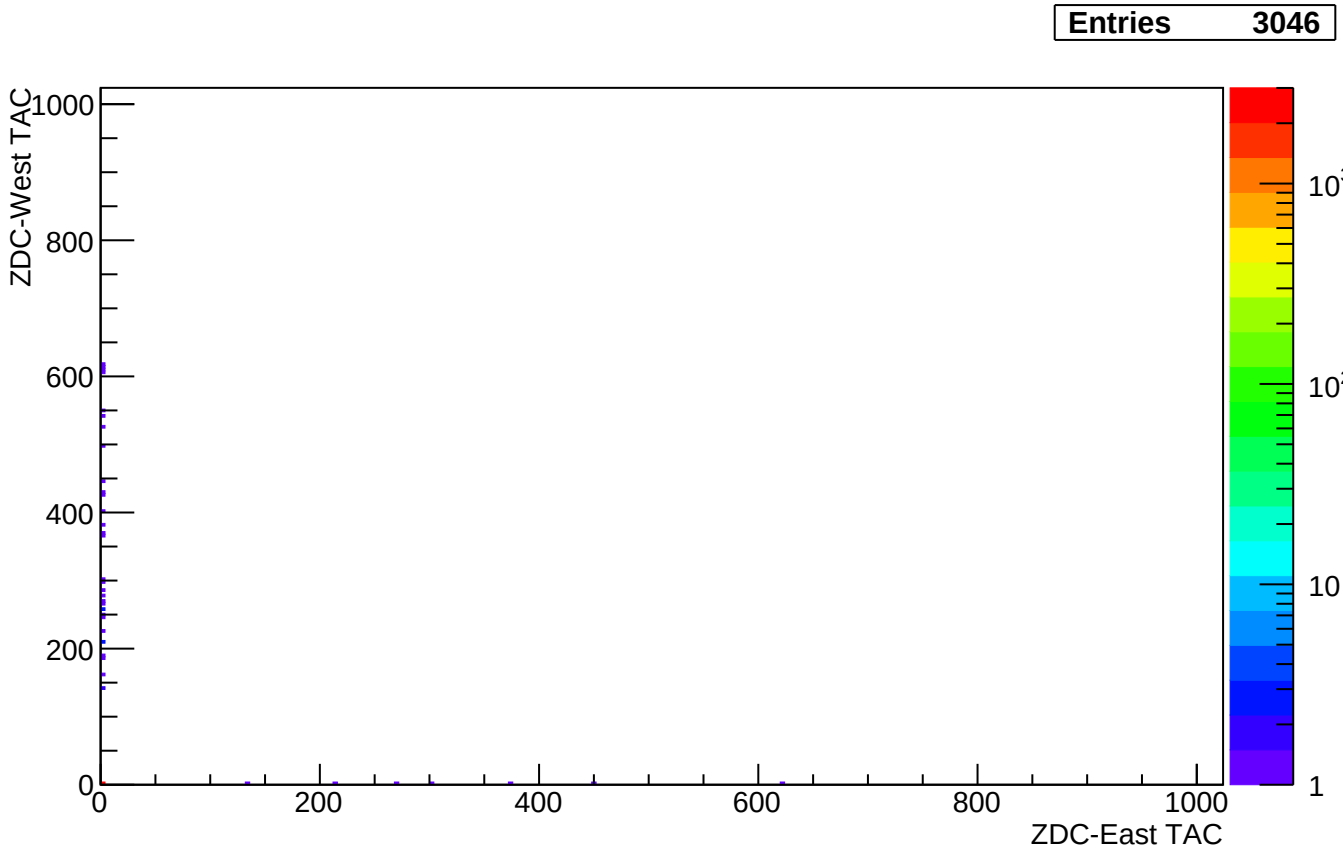

Entries 3046
TOF-Mult
VPD-East ADC Sum

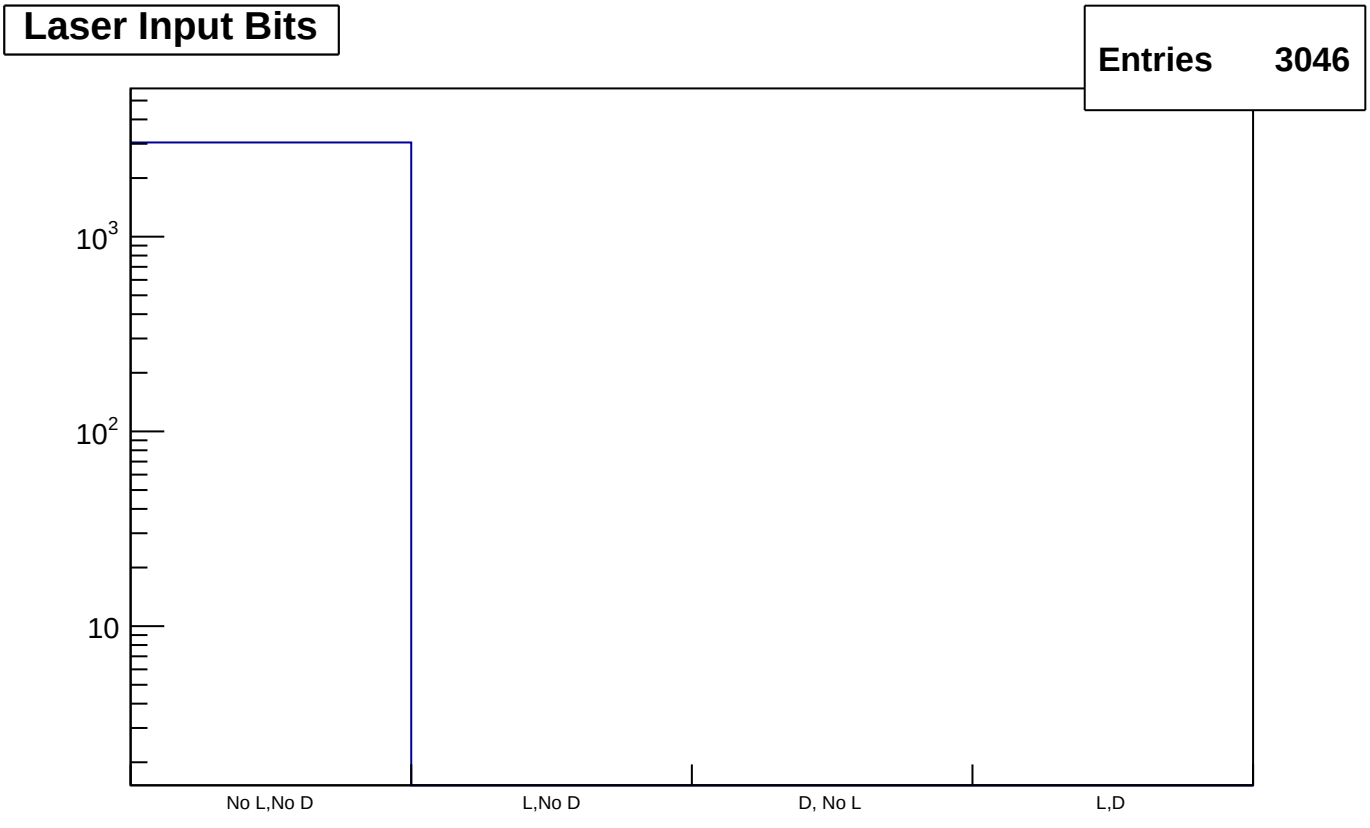

Entries 3046
TOF-Mult
VPD-West ADC Sum

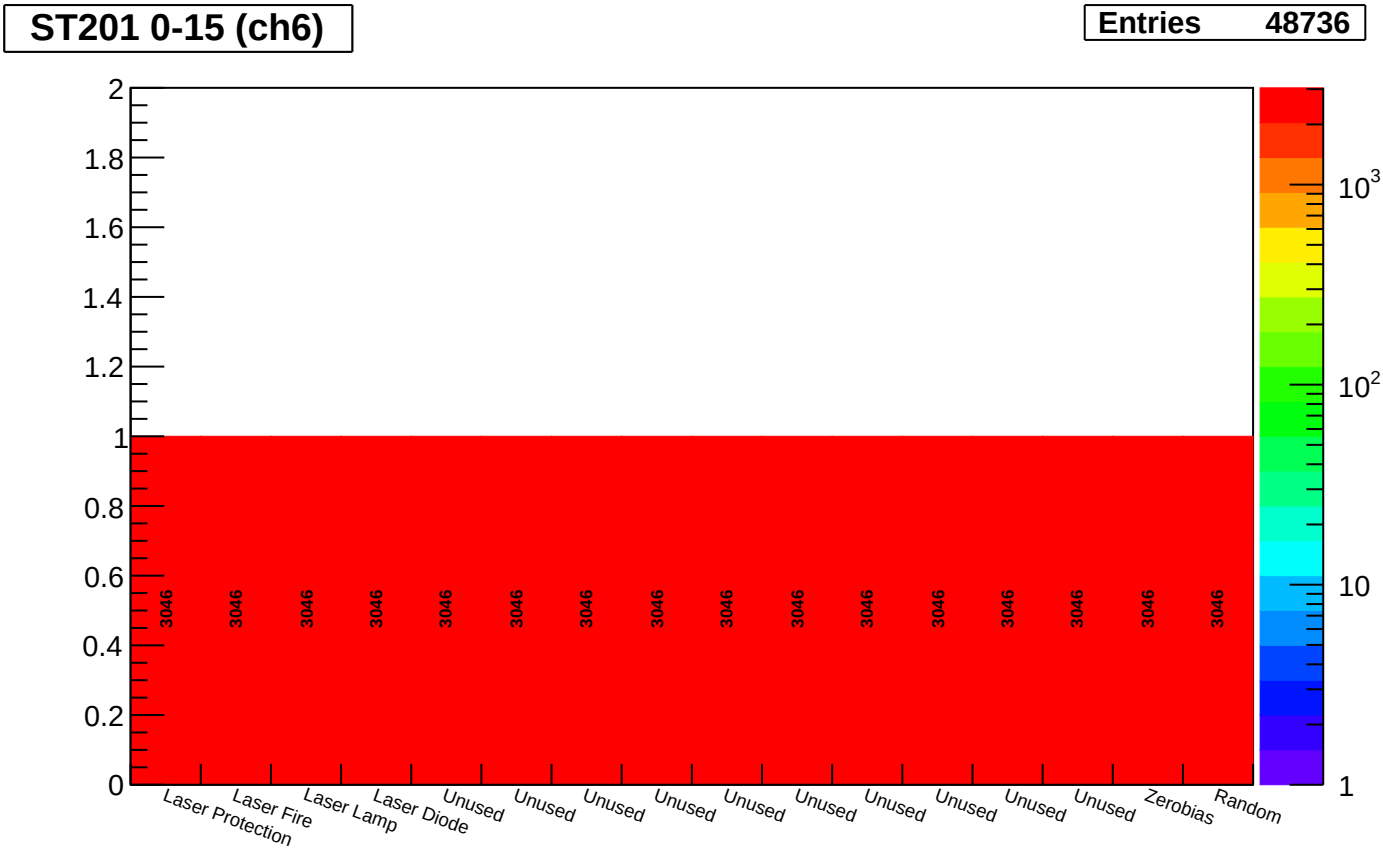

Entries 3046
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff

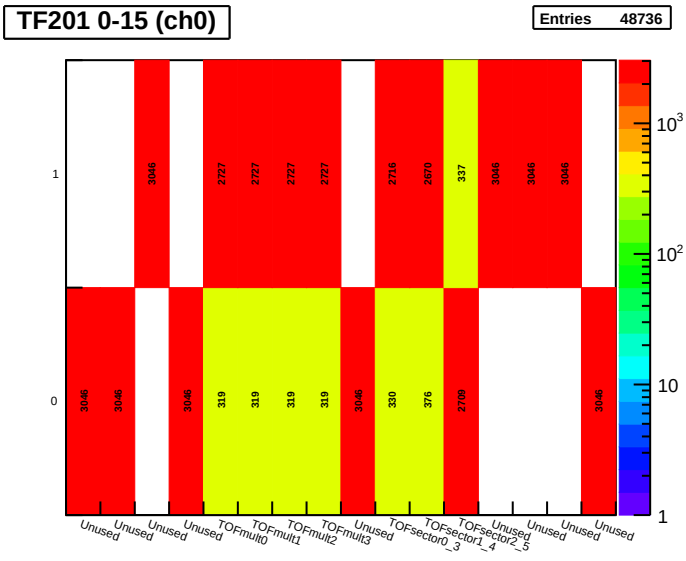

Entries 3046
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff

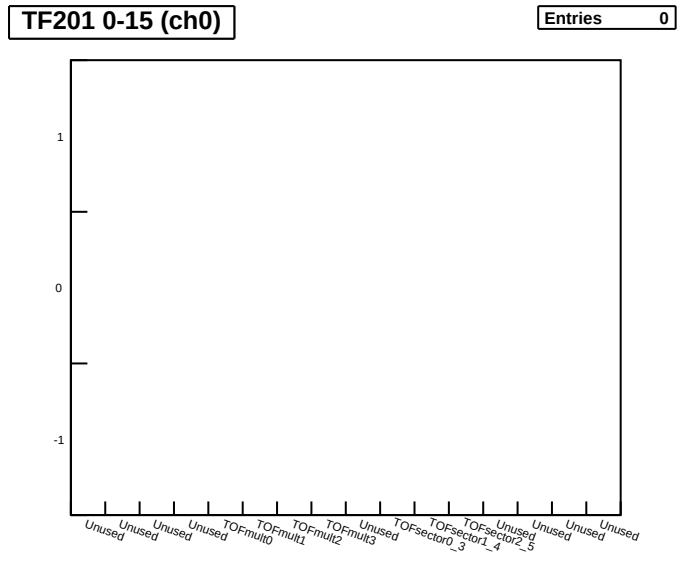

Entries 3046
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff

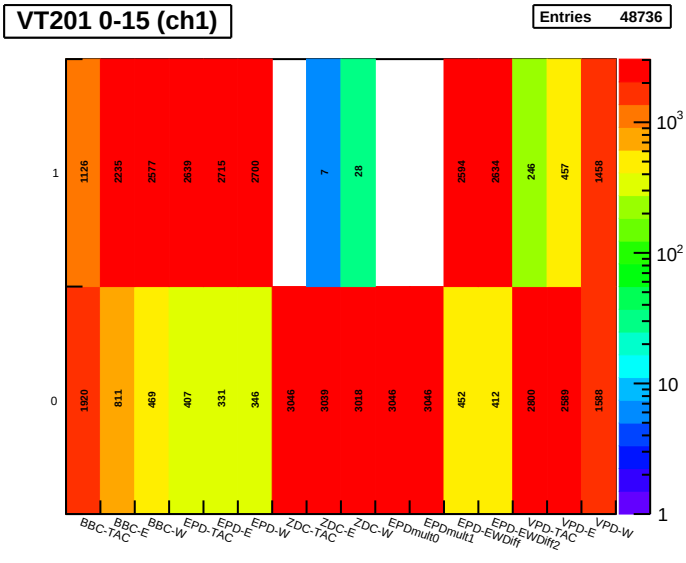

Entries 3046
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^3
10^2
10
1

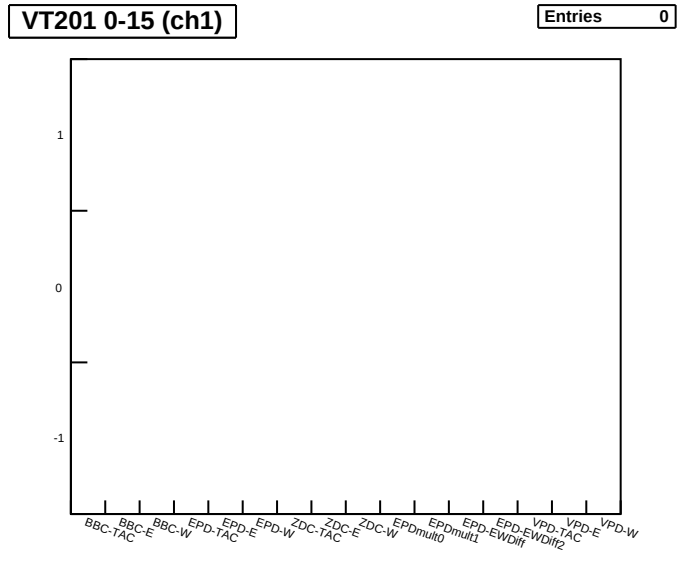

Laser Input Bits
Entries 3046
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

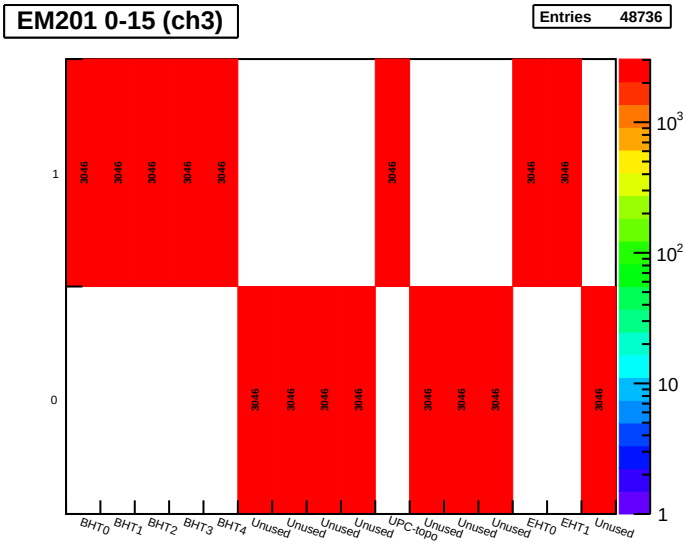

ST201 0-15 (ch6)
Entries 48736
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3046
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^3
10^2
10
1

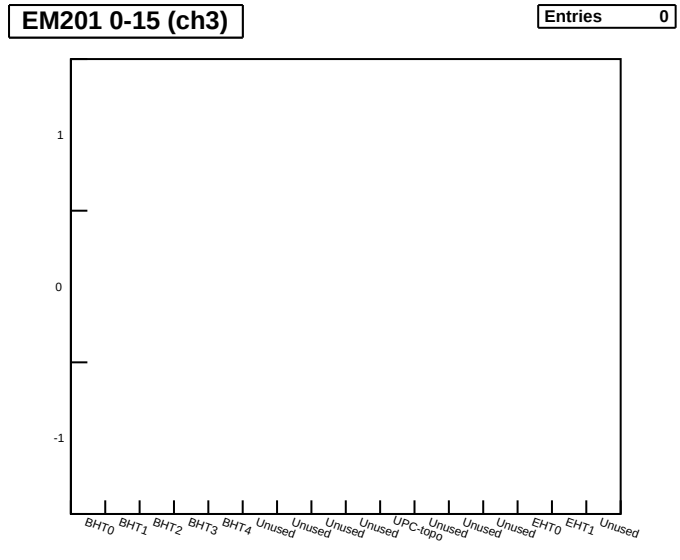

TF201 0-15 (ch0)
Entries 48736
1
0
3046 3046 3046 3046 2727 2727 2727 2727 2716 2670 337 3046 3046 3046
3046 3046 3046 319 319 319 319 3046 330 376 2709 3046
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused
10^3
10^2
10
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 48736
1
0
1126 2235 2577 2639 2715 2700 7 28 2594 2634 246 457 1458
1920 811 469 407 331 346 3046 3039 3018 3046 3046 452 412 2800 2589 1588
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
10^3
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 48736
1
0
3046 3046 3046 3046 3046 3046 3046 3046 3046
3046 3046 3046 3046 3046 3046 3046 3046
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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