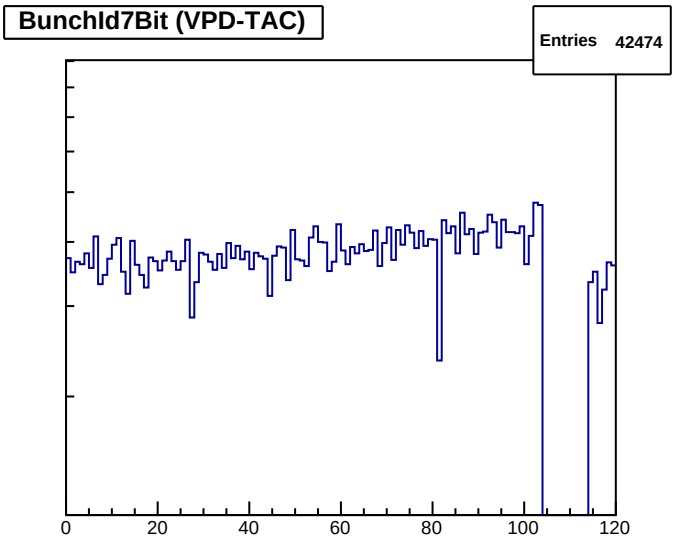
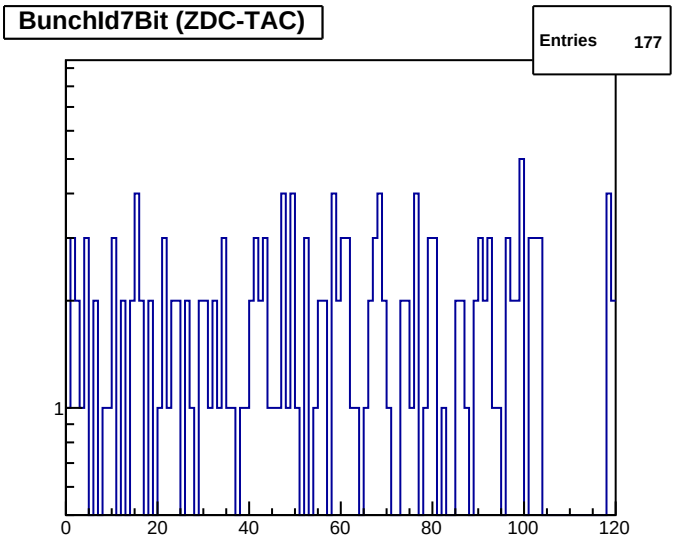
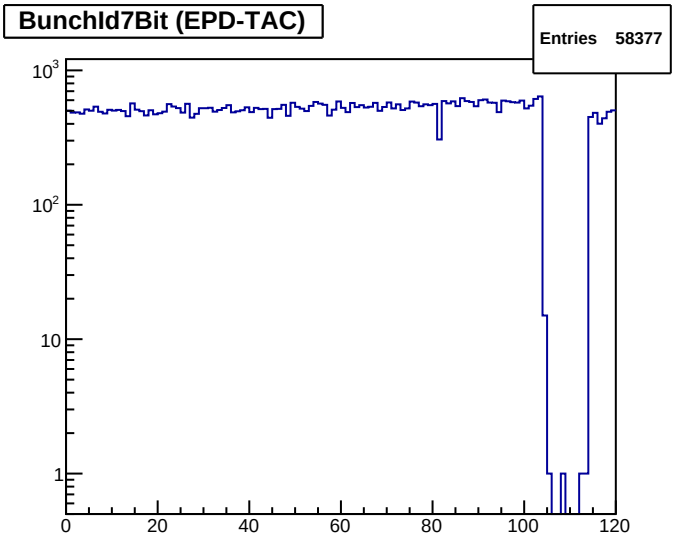
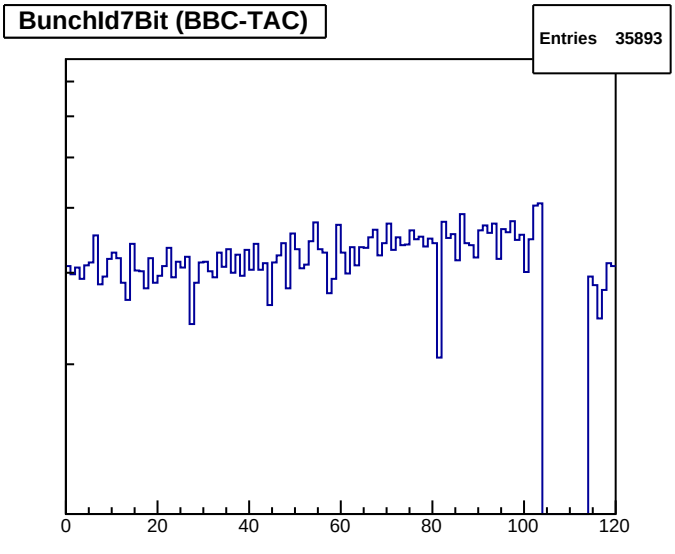
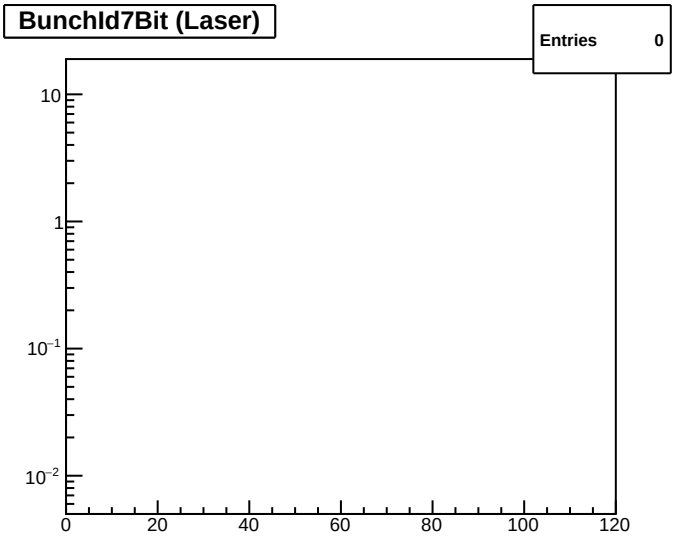
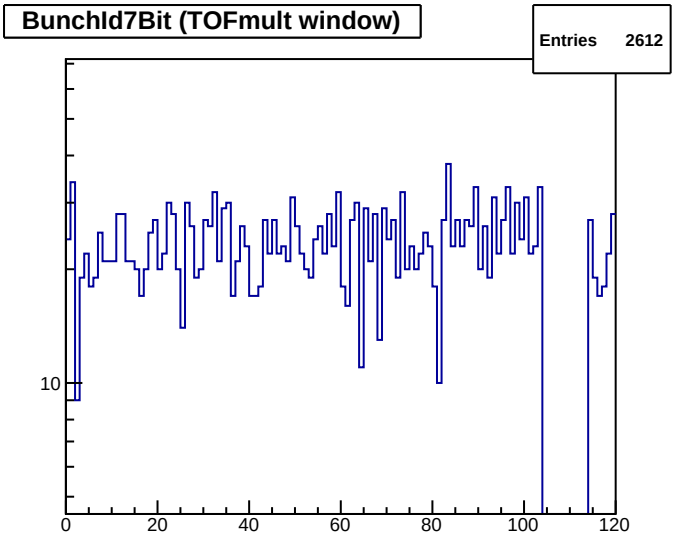

BunchId7Bit (VPD-TAC)
Entries 42474
0
20
40
60
80
100
120

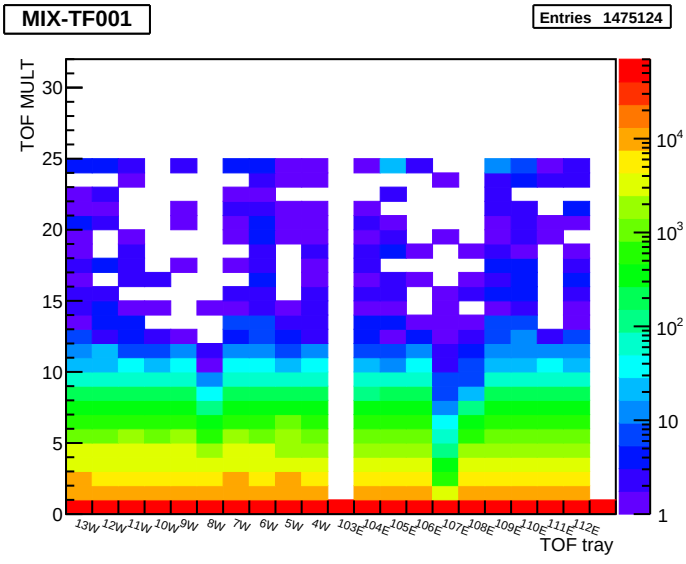

BunchId7Bit (ZDC-TAC)
Entries 177
1
0
20
40
60
80
100
120

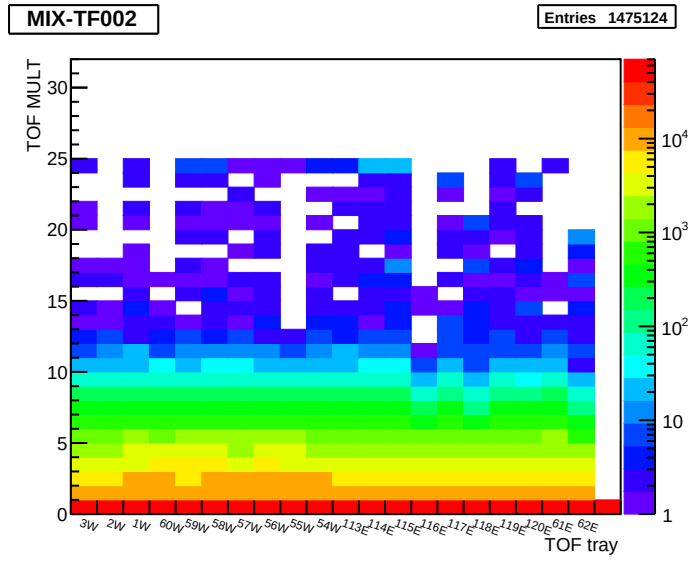

BunchId7Bit (EPD-TAC)
Entries 58377
$10^3$
$10^2$
10
1
0
20
40
60
80
100
120

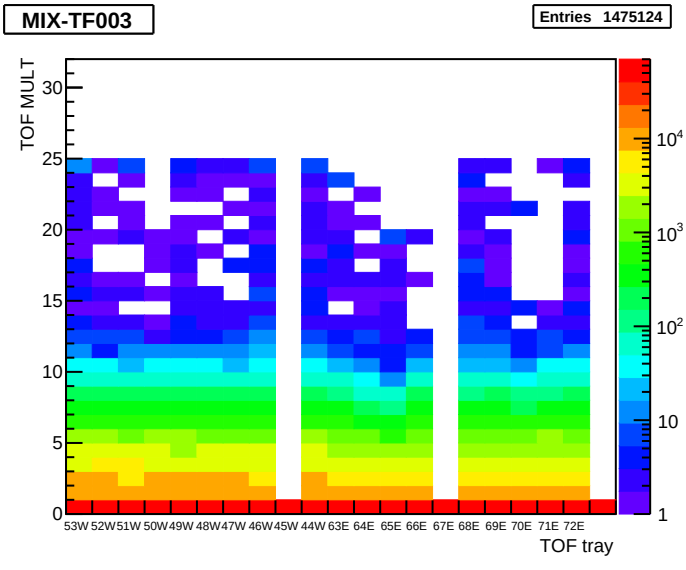

BunchId7Bit (BBC-TAC)
Entries 35893
0
20
40
60
80
100
120

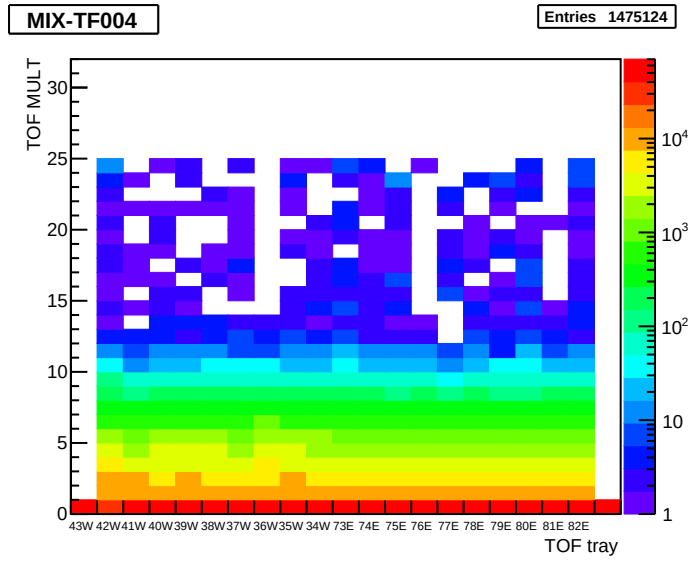

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

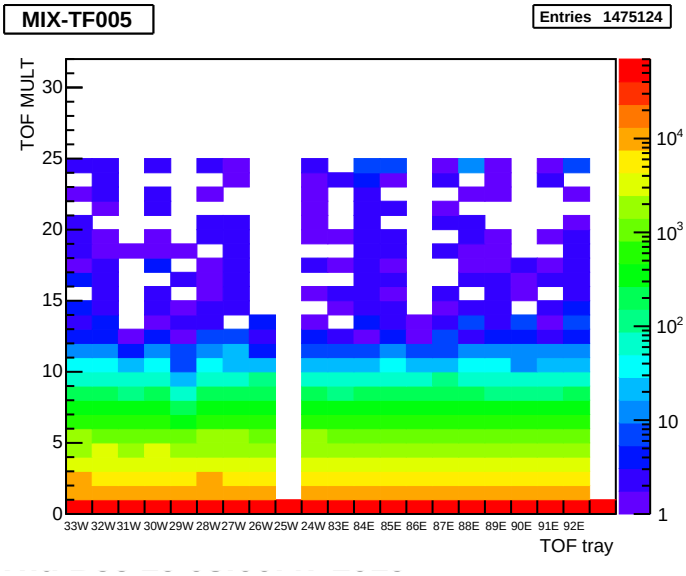

BunchId7Bit (TOFmult window)
Entries 2612
10
0
20
40
60
80
100
120

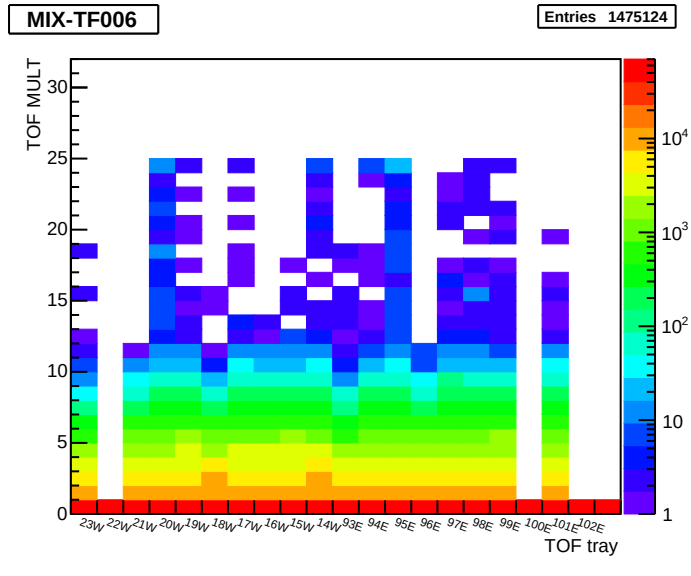

MIX-TF001
Entries 1475124
TOF MULT
TOF tray

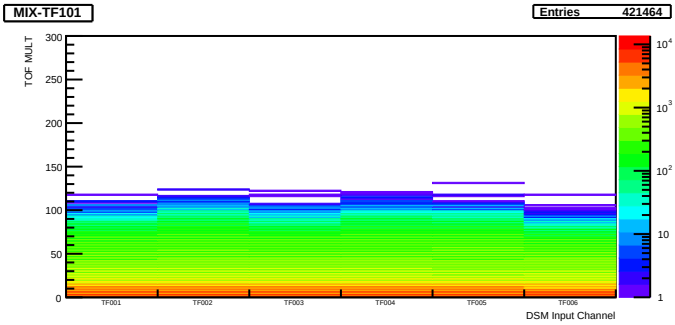

MIX-TF002
Entries 1475124
TOF MULT
TOF tray

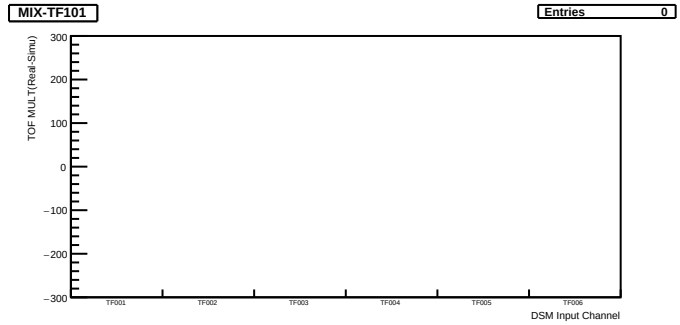

MIX-TF003
Entries 1475124
TOF MULT
TOF tray

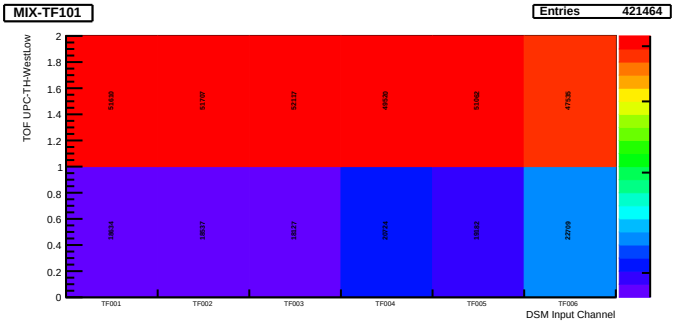

MIX-TF004
Entries 1475124
TOF MULT
TOF tray

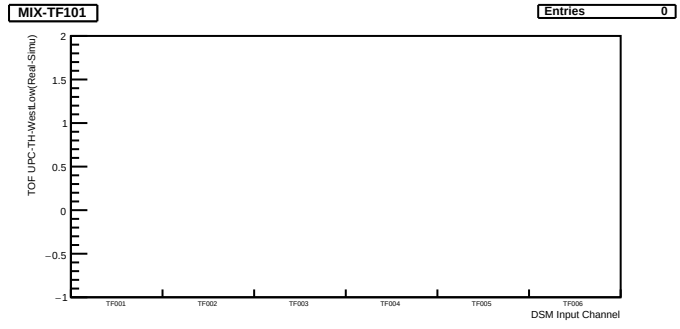

MIX-TF005
Entries 1475124
TOF MULT
TOF tray

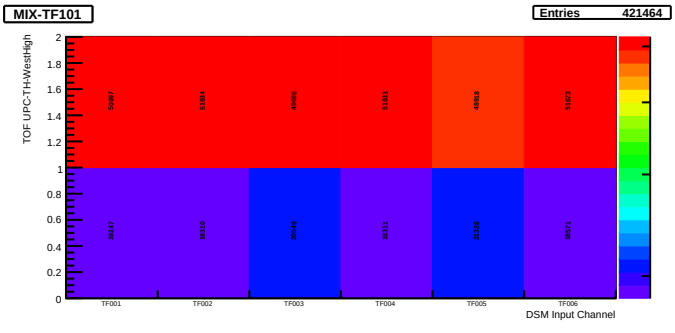

MIX-TF006
Entries 1475124
TOF MULT
TOF tray

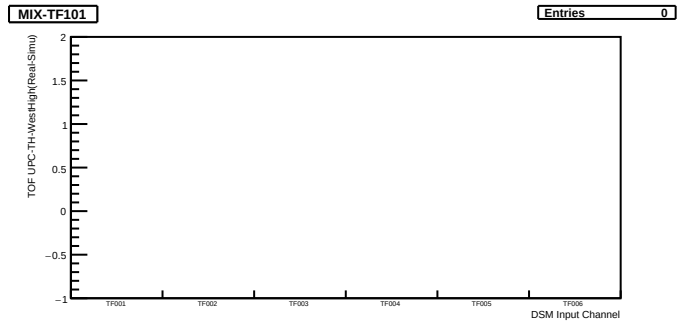

MIX-TF101
Entries 421464
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

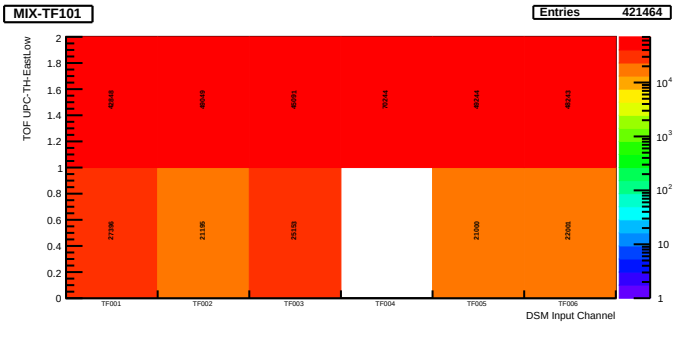

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

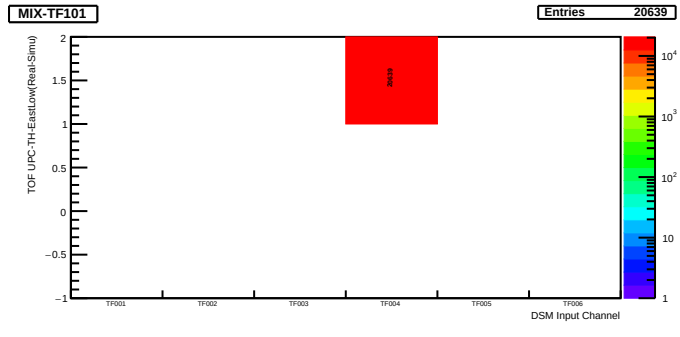

MIX-TF101
Entries 421464
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

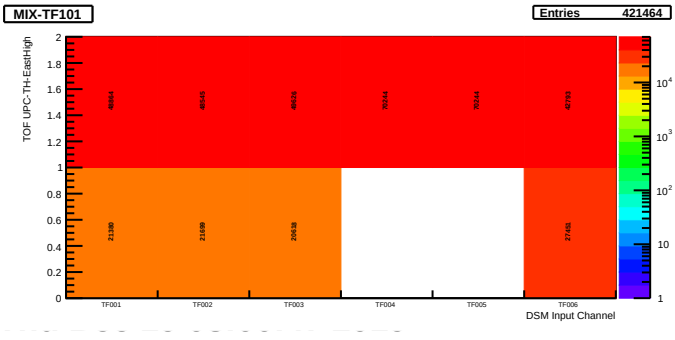

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

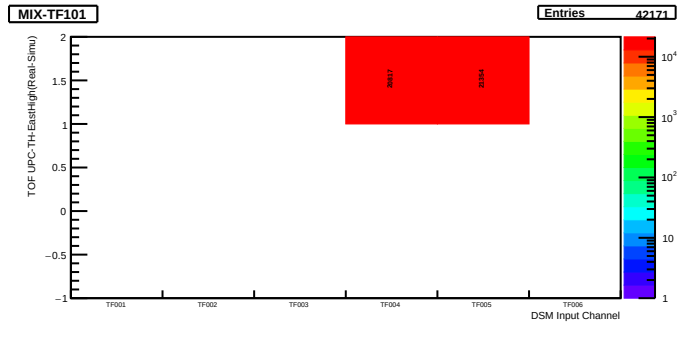

MIX-TF101
Entries 421464
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

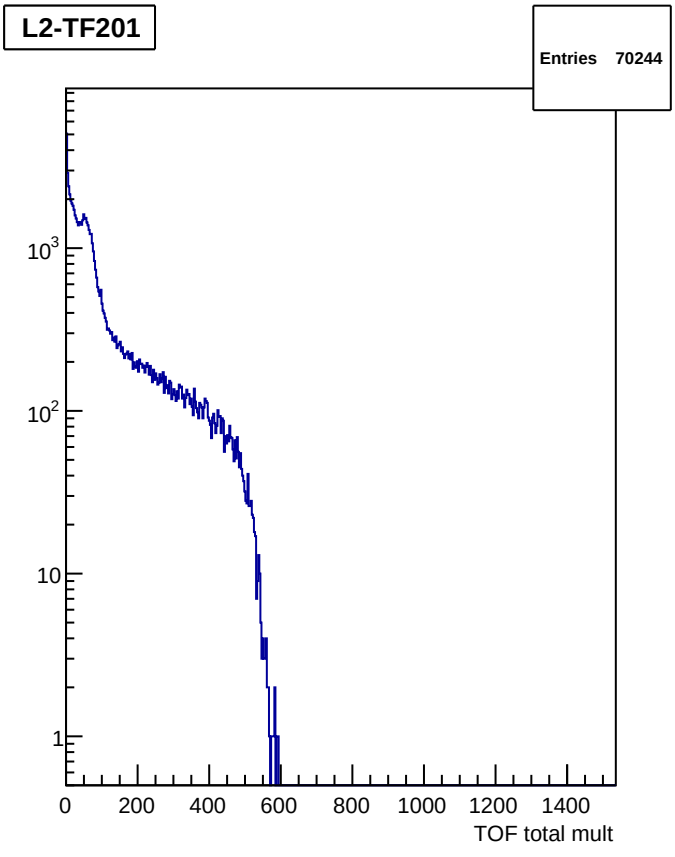

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

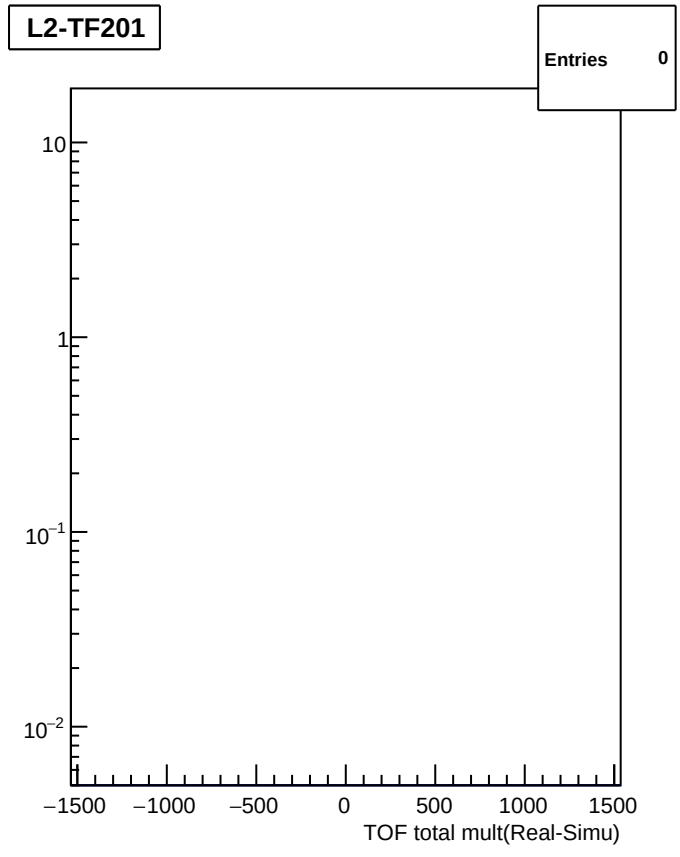

MIX-TF101
Entries 421464
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

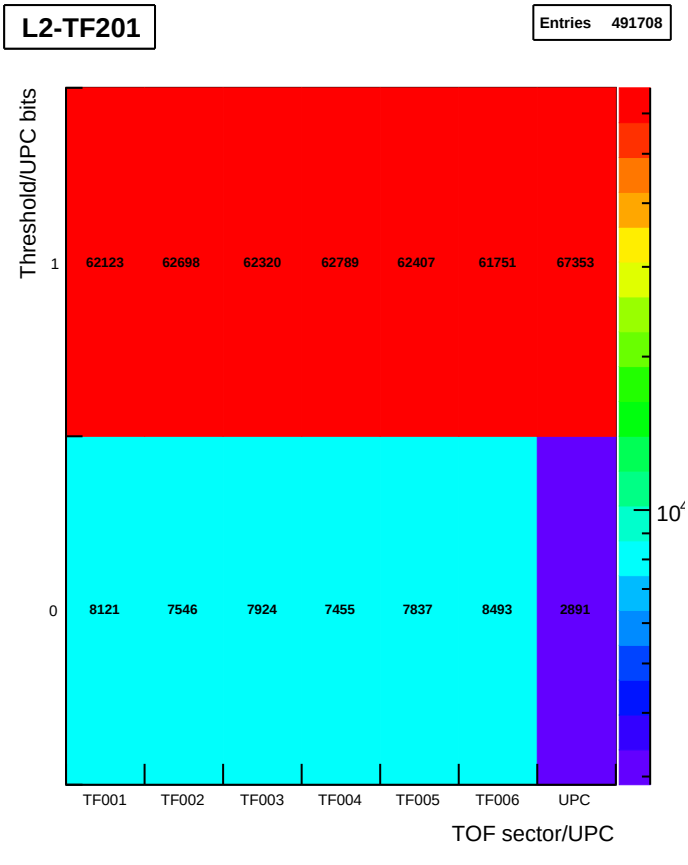

MIX-TF101
Entries 20639
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

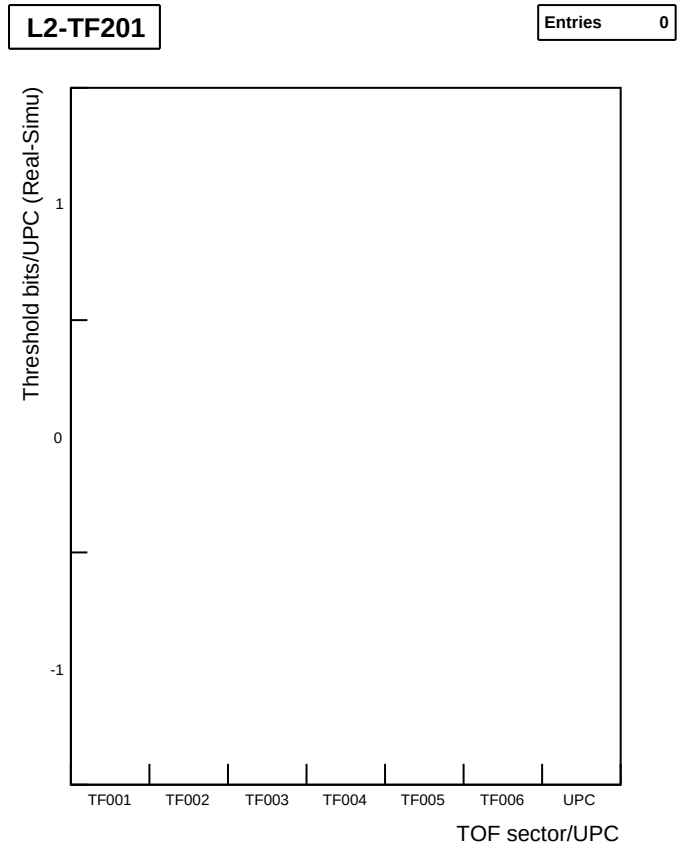

MIX-TF101
Entries 421464
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

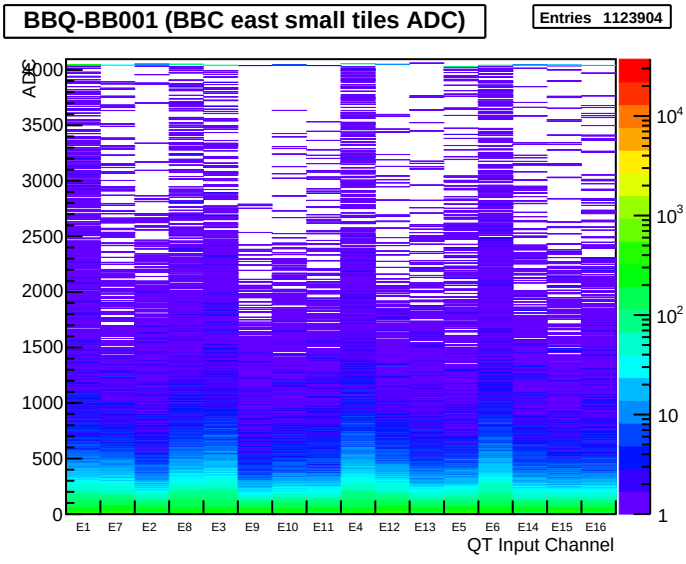

MIX-TF101
Entries 42171
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

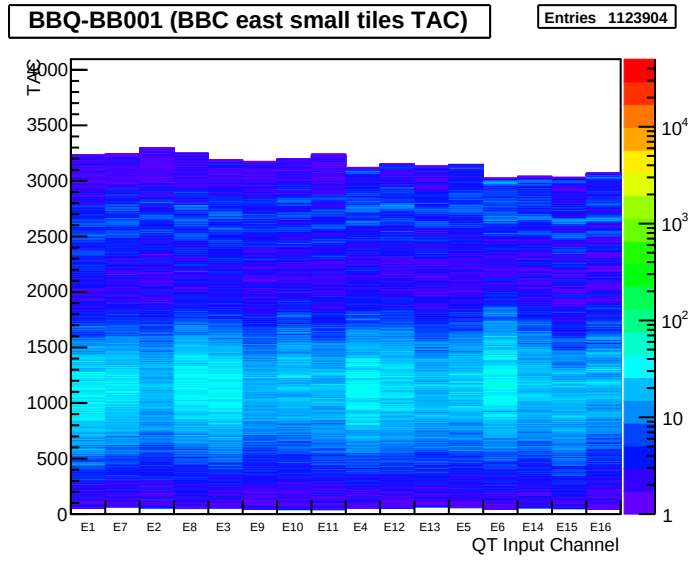

L2-TF201
Entries 70244
TOF total mult

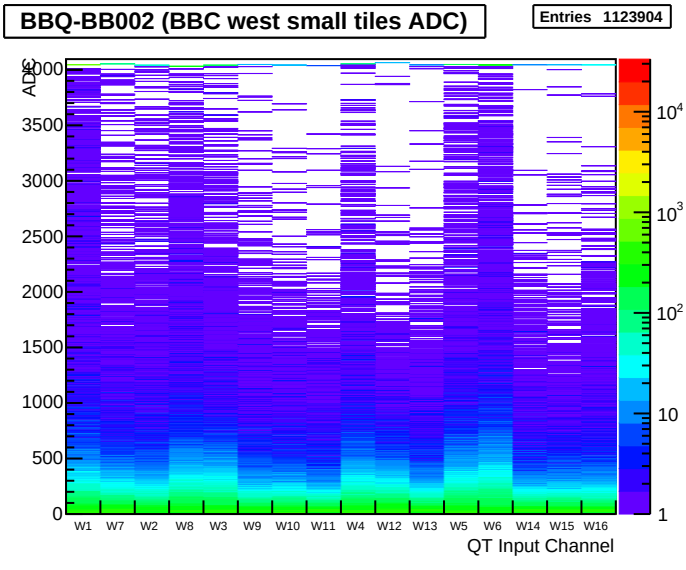

L2-TF201
Entries 0
TOF total mult(Real-Simu)

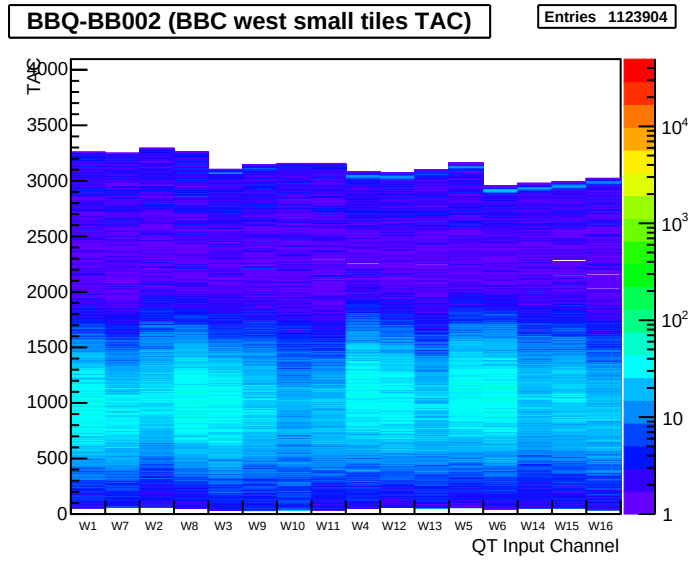

L2-TF201
Entries 491708
Threshold/UPC bits
62123
62698
62320
62789
62407
61751
67353
8121
7546
7924
7455
7837
8493
2891
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

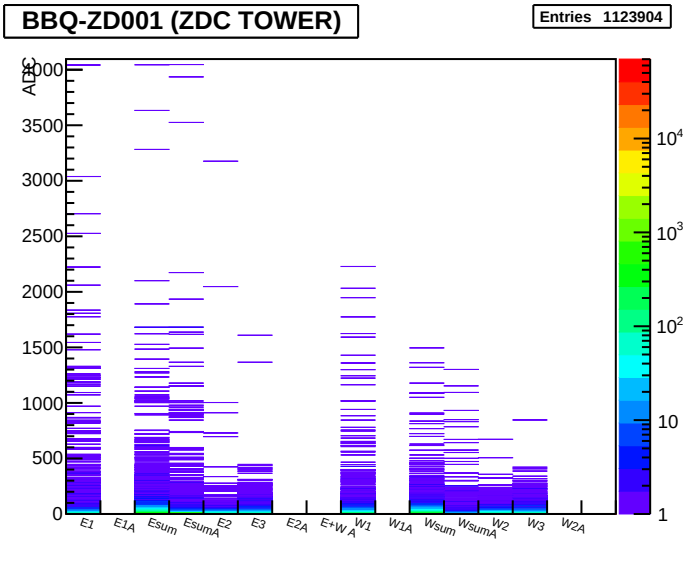

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

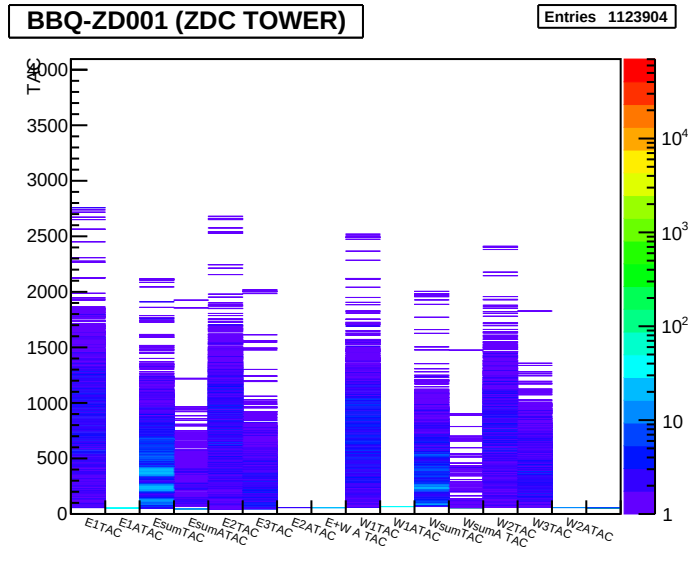

BBQ-BB001 (BBC east small tiles ADC)
Entries 1123904
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

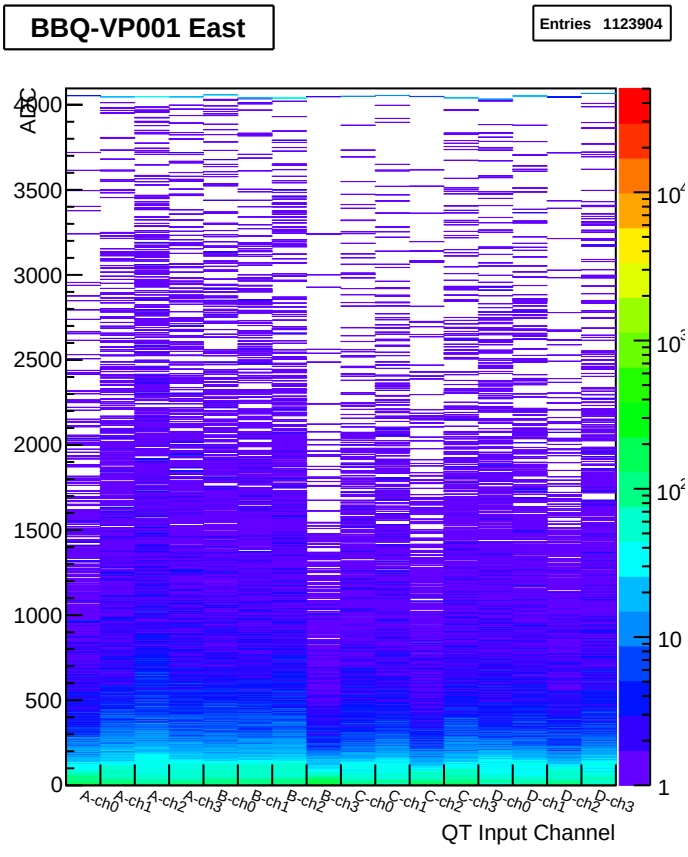

BBQ-BB001 (BBC east small tiles TAC)
Entries 1123904
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

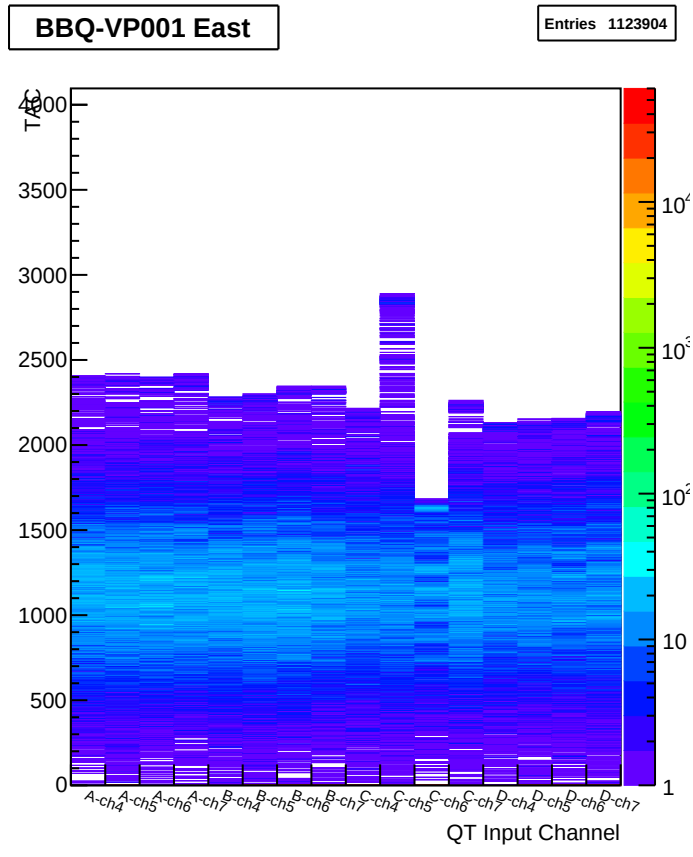

BBQ-BB002 (BBC west small tiles ADC)
Entries 1123904
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

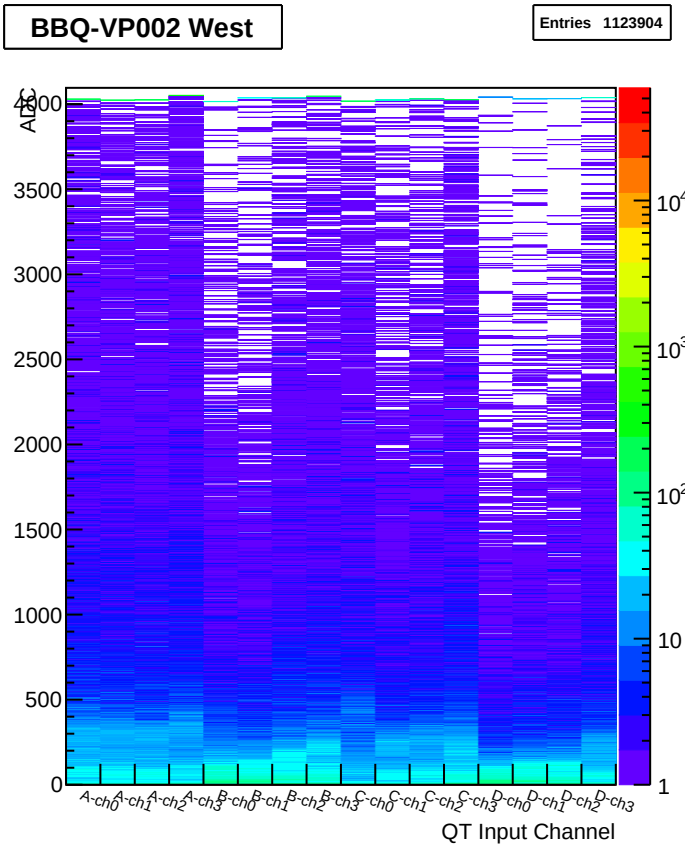

BBQ-BB002 (BBC west small tiles TAC)
Entries 1123904
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

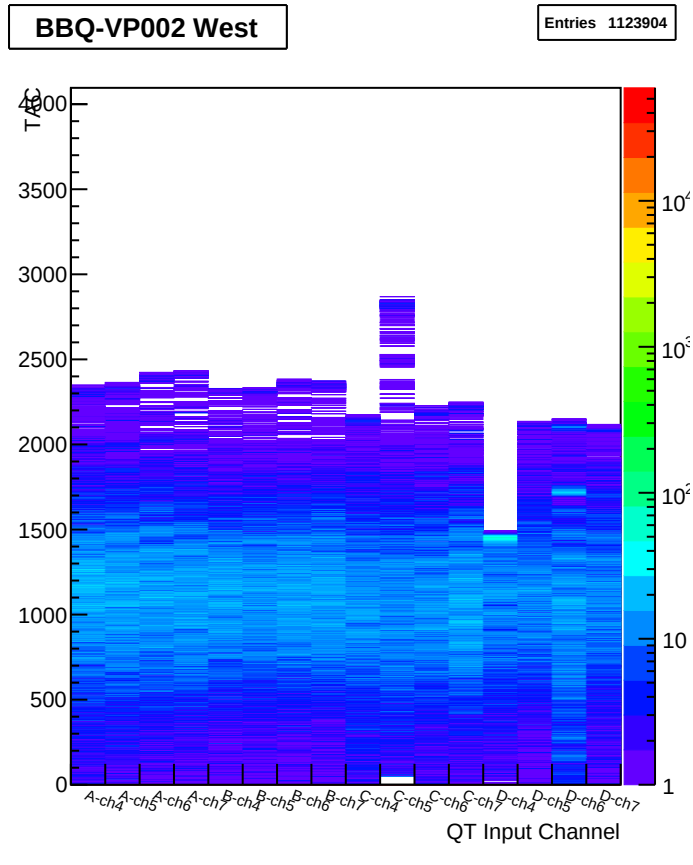

BBQ-ZD001 (ZDC TOWER)
Entries 1123904
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

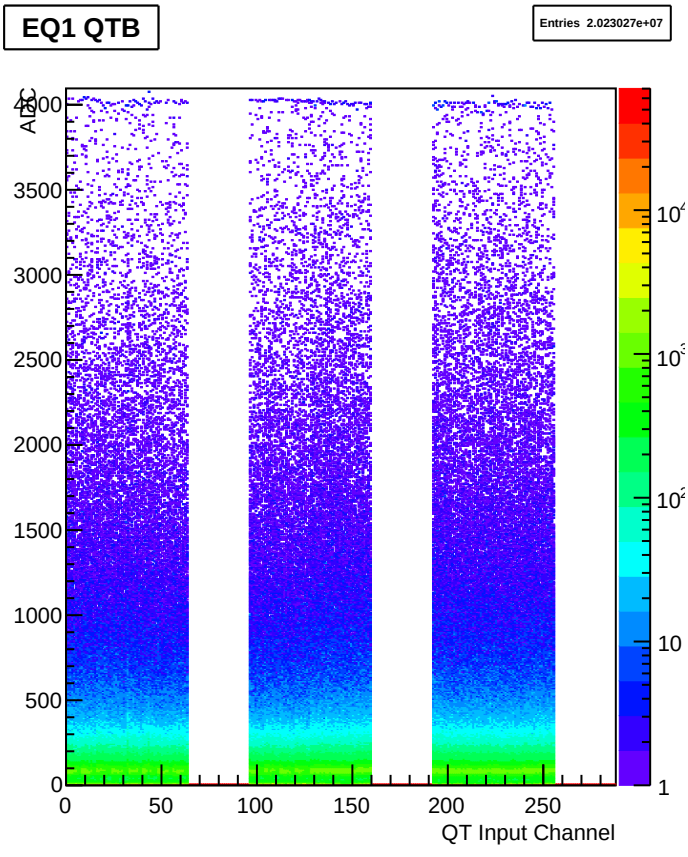

BBQ-ZD001 (ZDC TOWER)
Entries 1123904
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

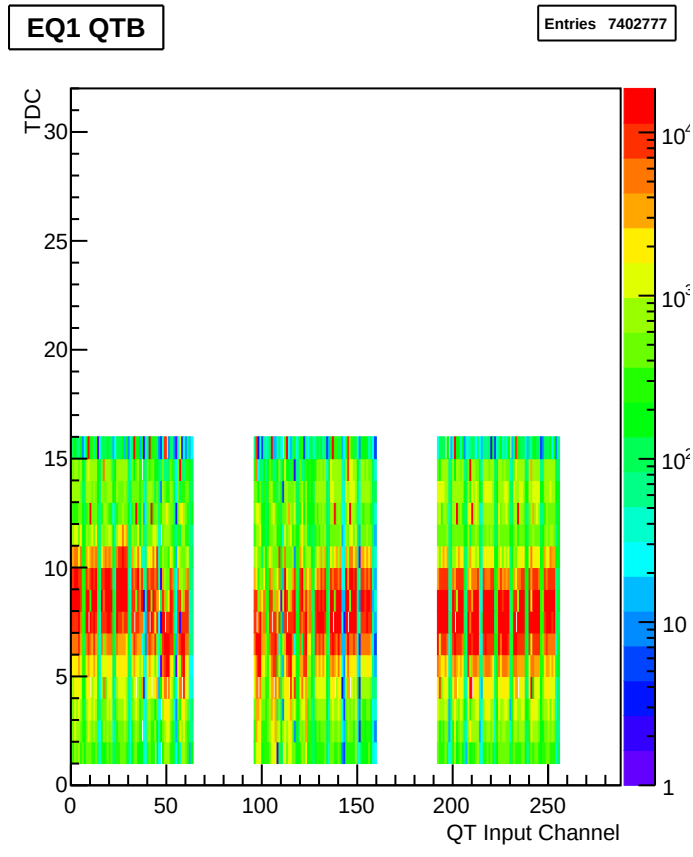

BBQ-VP001 East
Entries 1123904
ADC
QT Input Channel

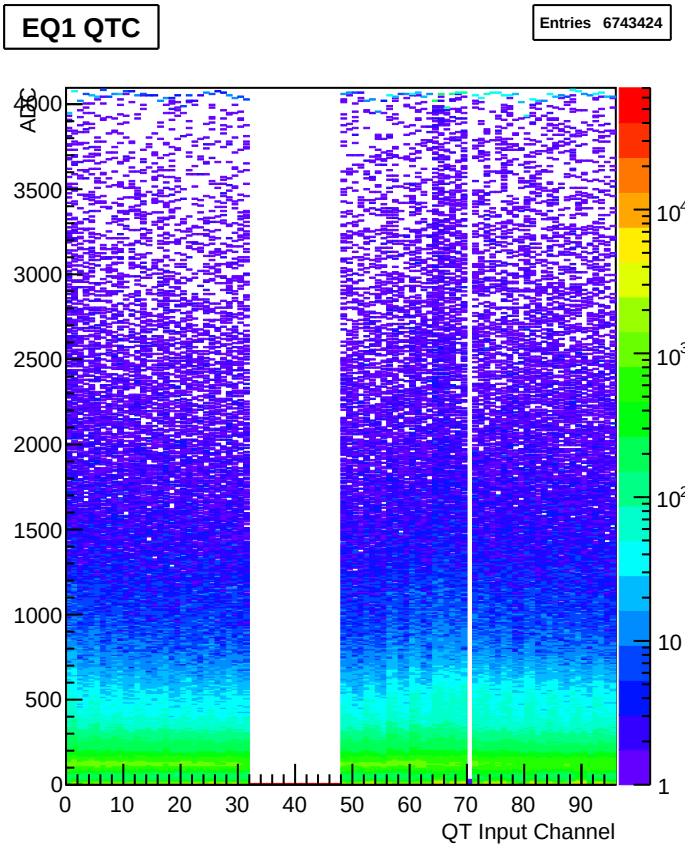

BBQ-VP001 East
Entries 1123904
TADC
QT Input Channel

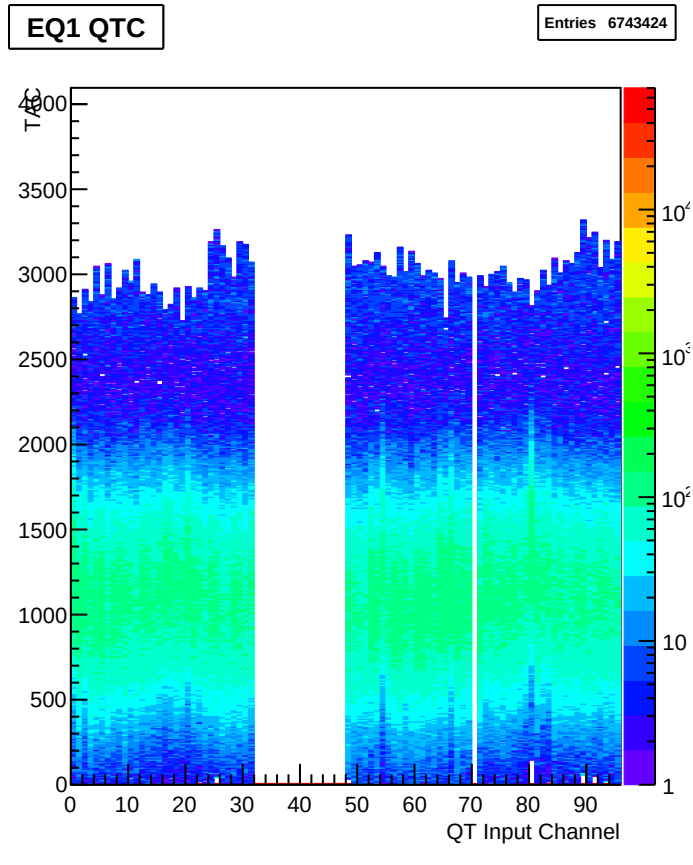

BBQ-VP002 West
Entries 1123904
ADC
QT Input Channel

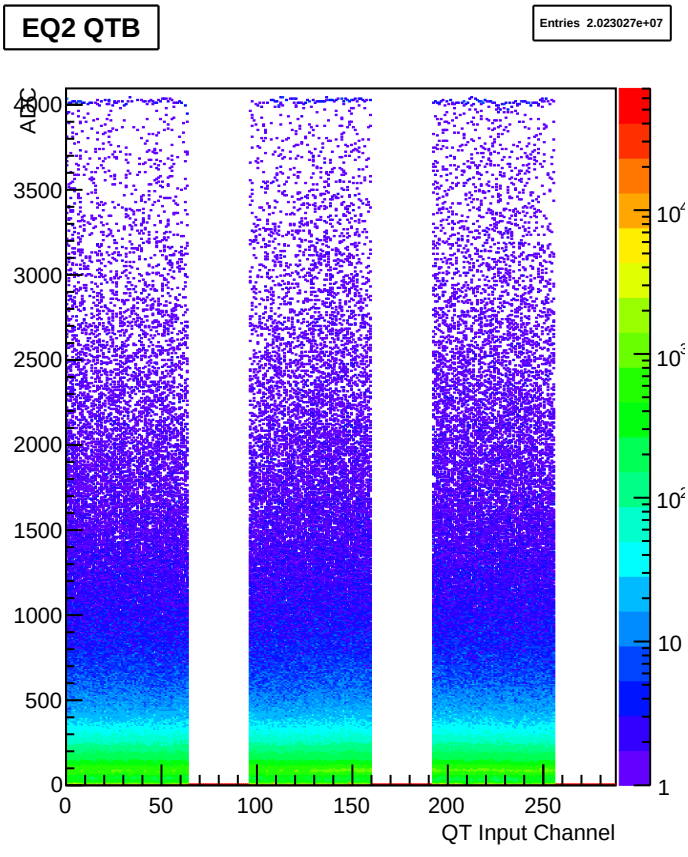

BBQ-VP002 West
Entries 1123904
TADC
QT Input Channel

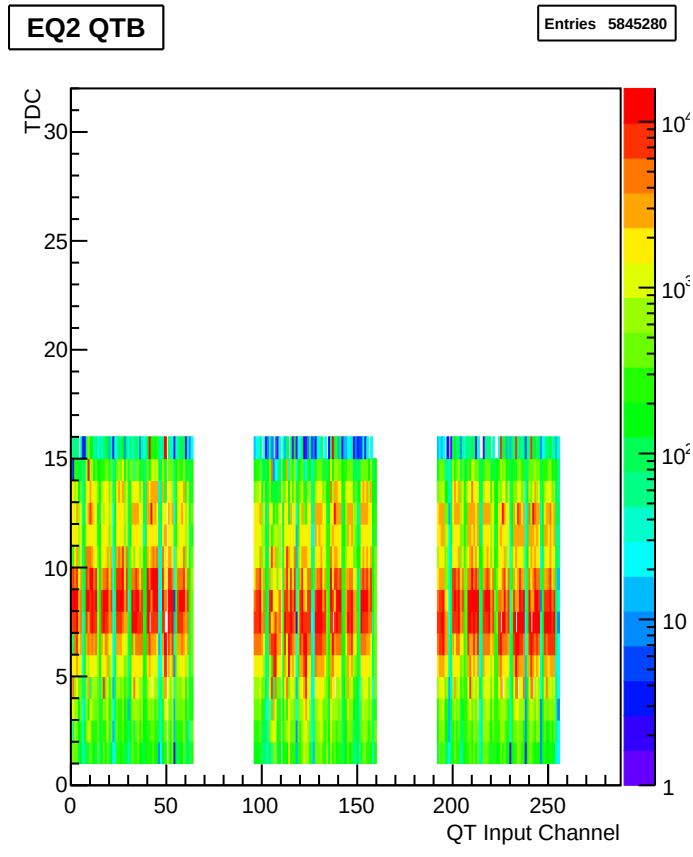

EQ1 QTB
Entries 2.023027e+07
ADC
QT Input Channel

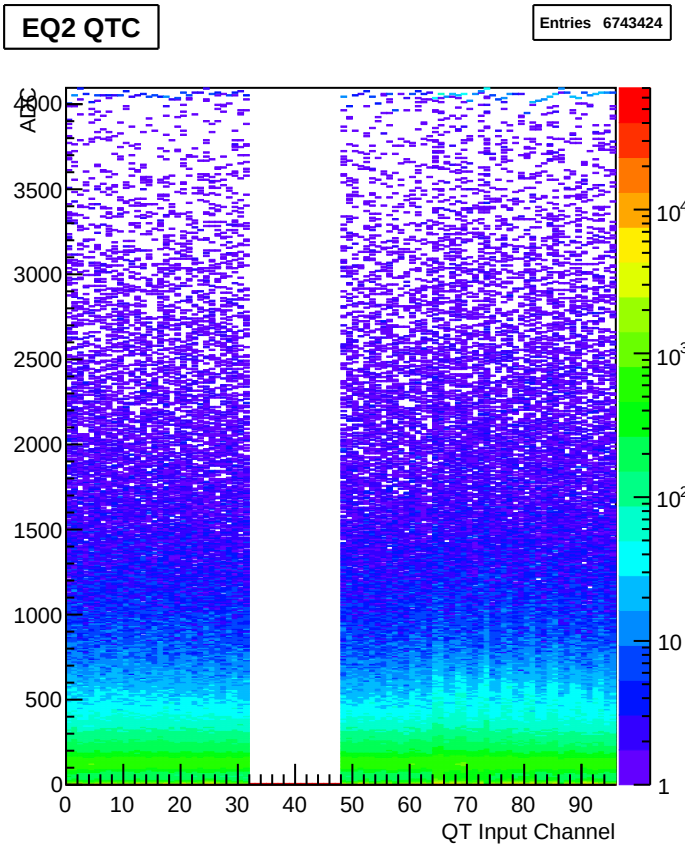

EQ1 QTB
Entries 7402777
TDC
QT Input Channel

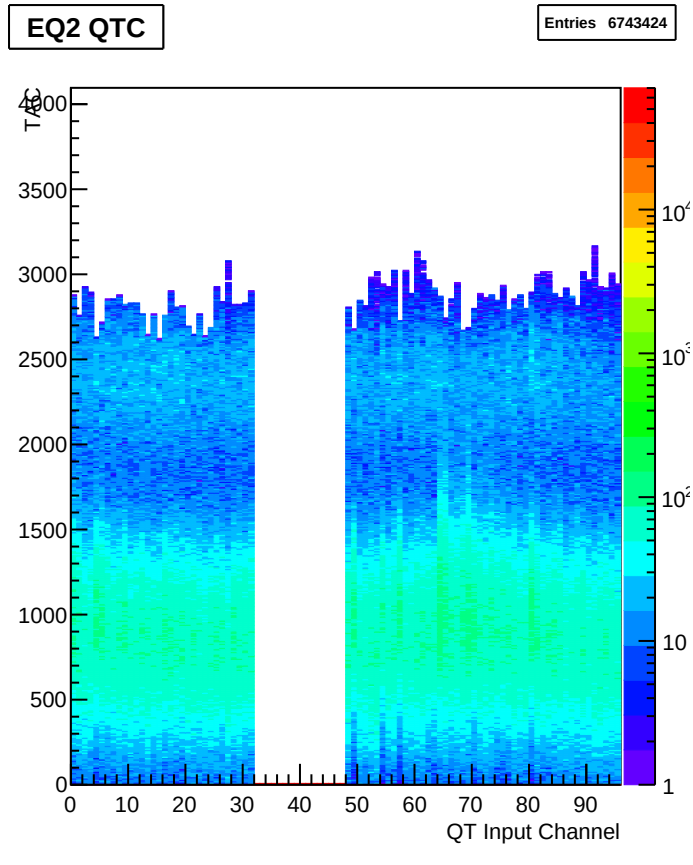

EQ1 QTC
Entries 6743424
ADC
QT Input Channel

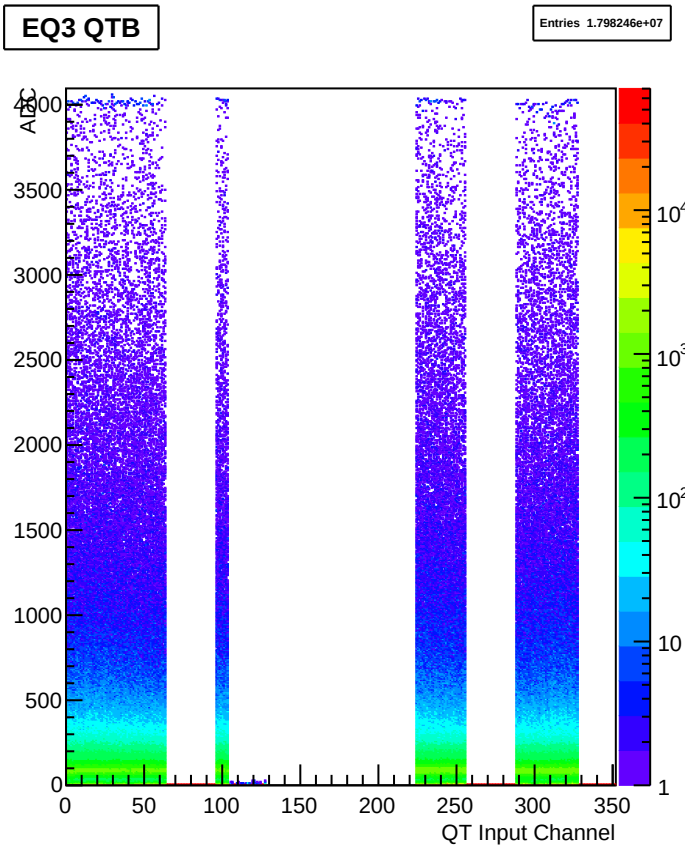

EQ1 QTC
Entries 6743424
TADC
QT Input Channel

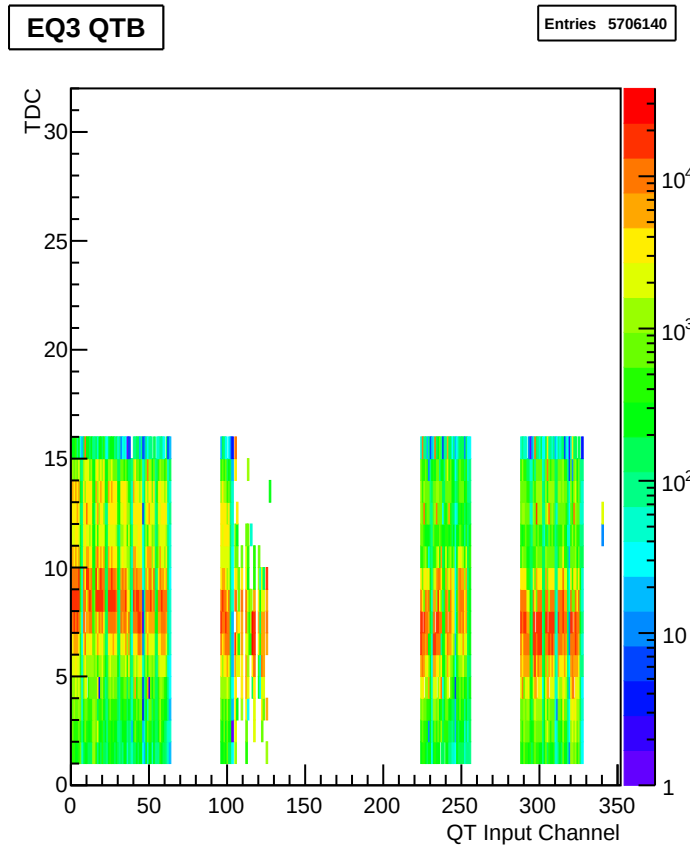

EQ2 QTB
Entries 2.023027e+07
ADC
QT Input Channel

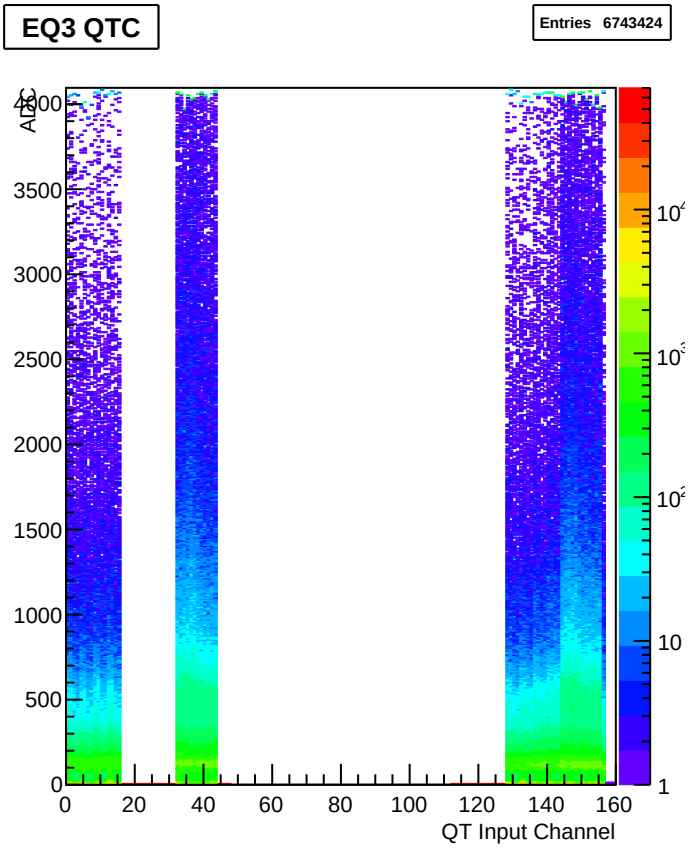

EQ2 QTB
Entries 5845280
TDC
QT Input Channel

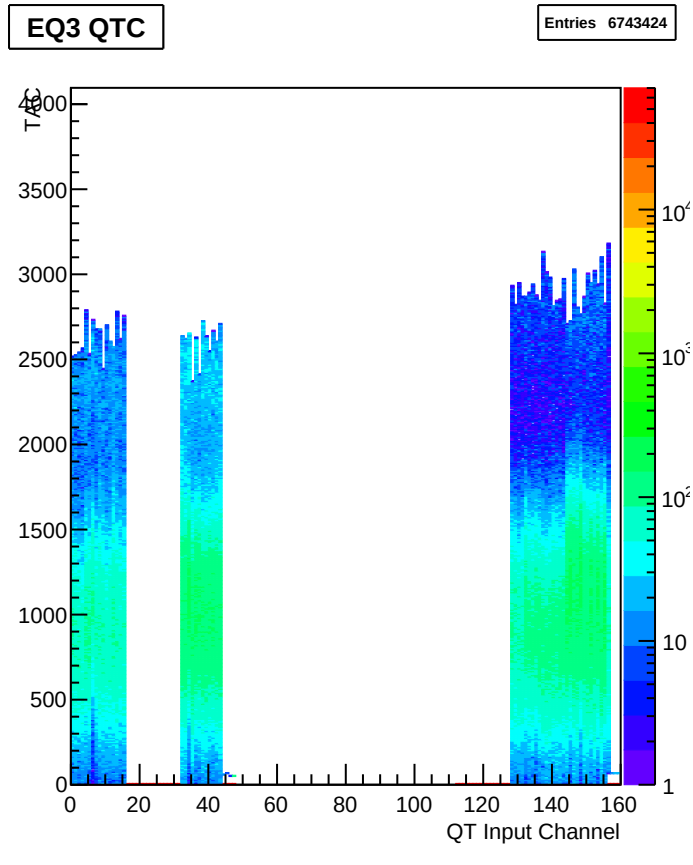

EQ2 QTC
Entries 6743424
ADC
QT Input Channel

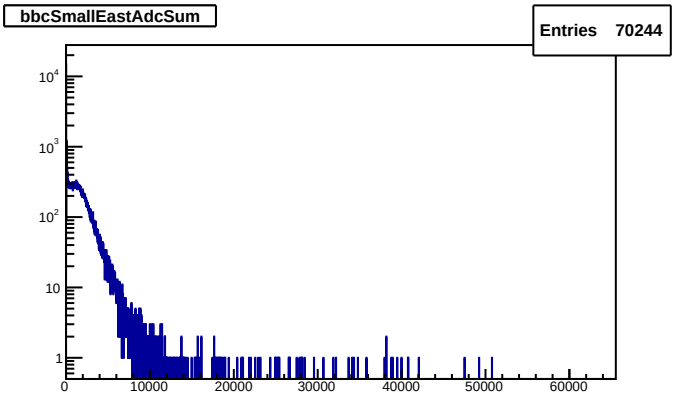

EQ2 QTC
Entries 6743424
TADC
QT Input Channel

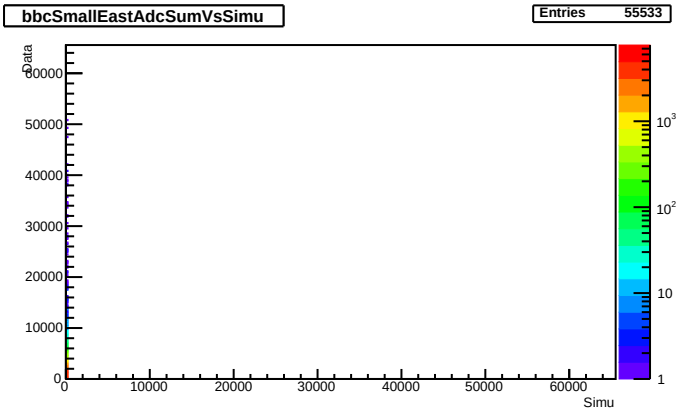

EQ3 QTB
Entries 1.798246e+07
ADC
QT Input Channel

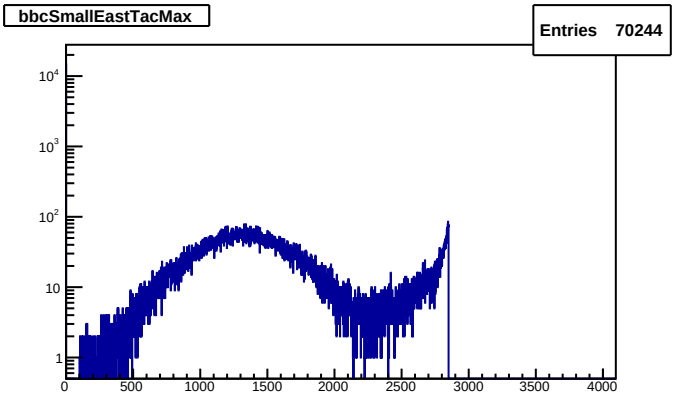

EQ3 QTB
Entries 5706140
TDC
QT Input Channel

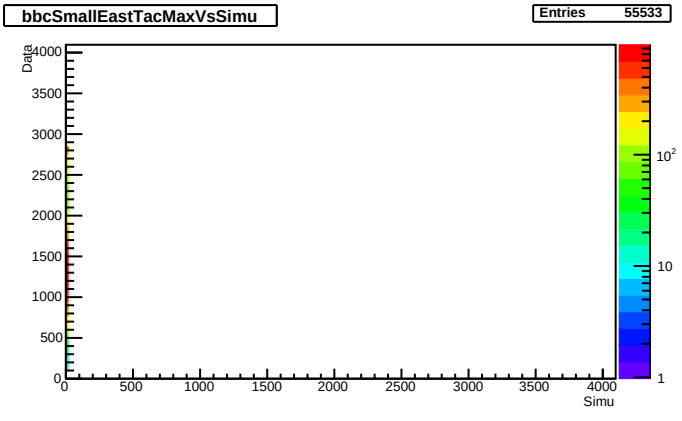

EQ3 QTC
Entries 6743424
ADC
QT Input Channel

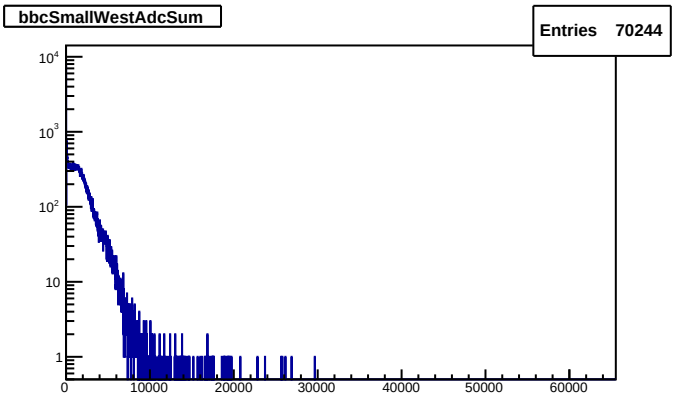

EQ3 QTC
Entries 6743424
TADC
QT Input Channel

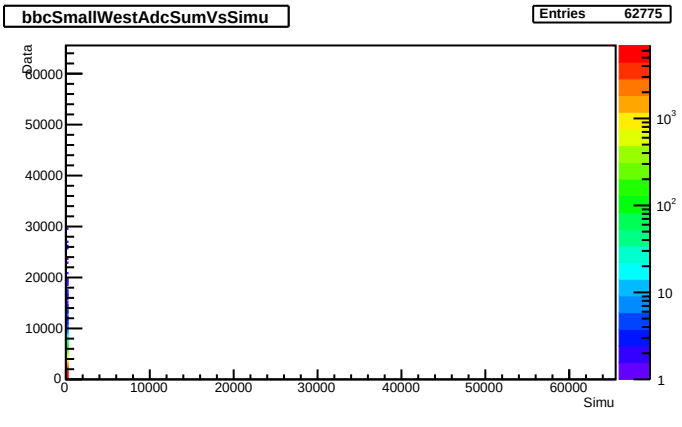

bbcSmallEastAdcSum
Entries 70244

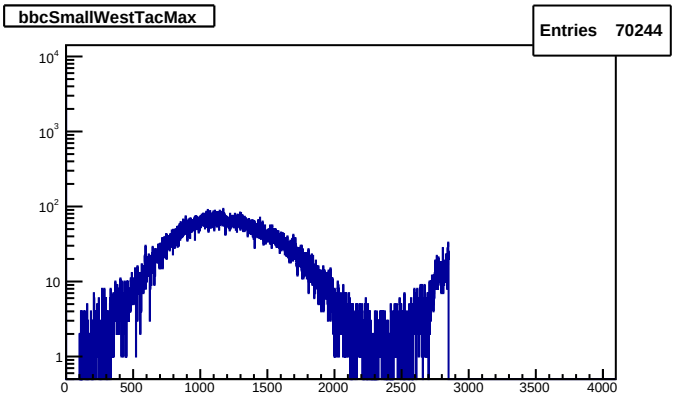

bbcSmallEastAdcSumVsSimu
Entries 55533
Data
Simu

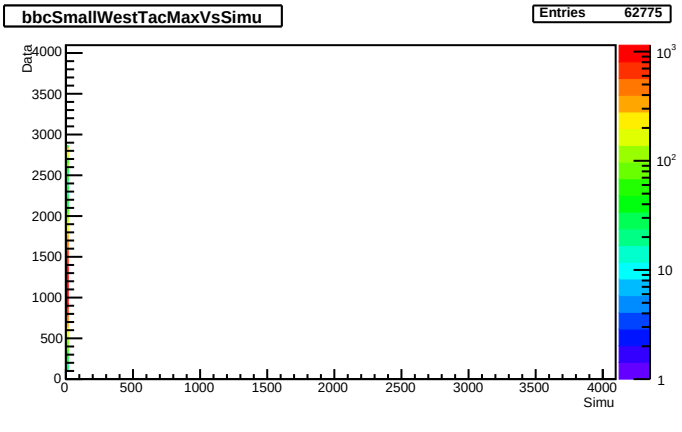

bbcSmallEastTacMax
Entries 70244

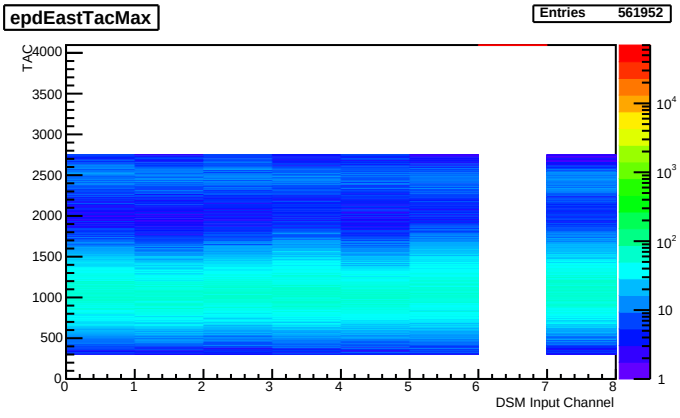

bbcSmallEastTacMaxVsSimu
Entries 55533
Data
Simu

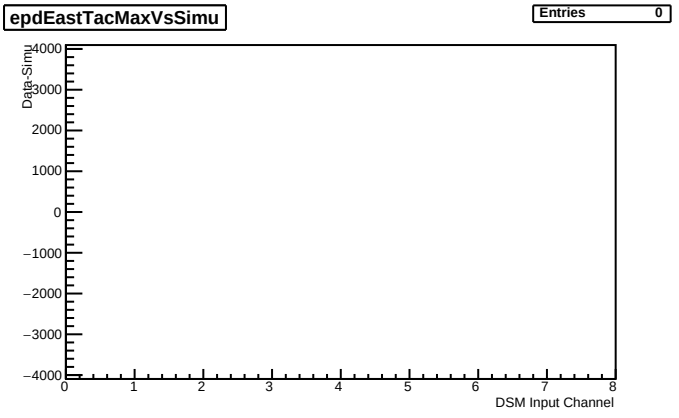

bbcSmallWestAdcSum
Entries 70244

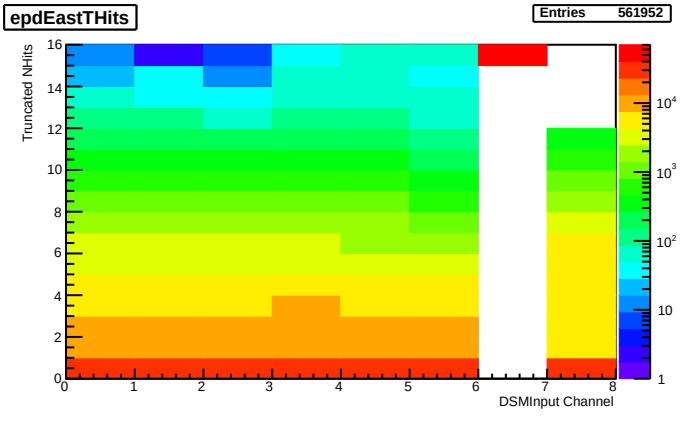

bbcSmallWestAdcSumVsSimu
Entries 62775
Data
Simu

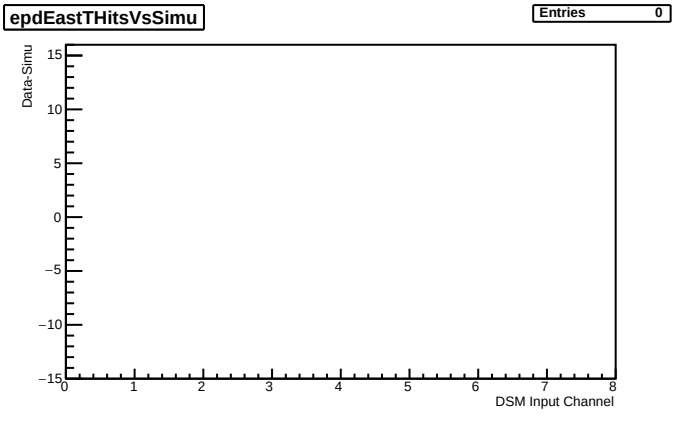

bbcSmallWestTacMax
Entries 70244

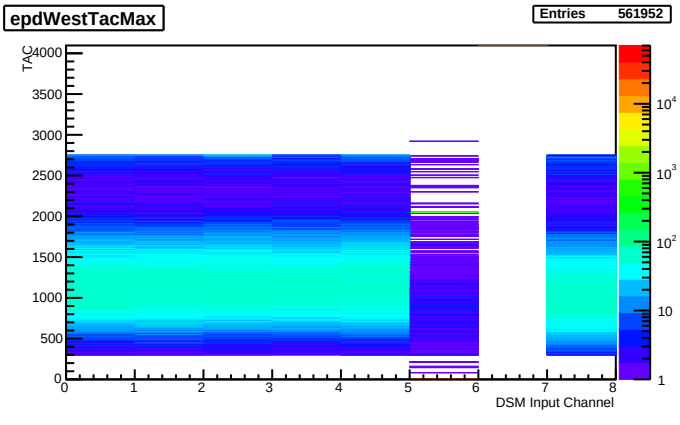

bbcSmallWestTacMaxVsSimu
Entries 62775
Data
Simu

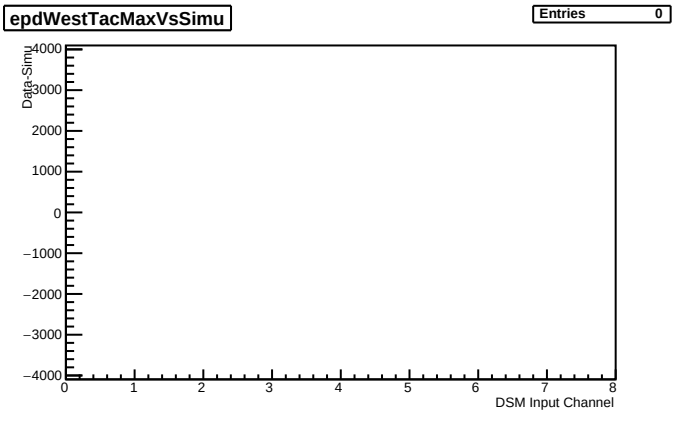

epdEastTacMax
Entries 561952
TAC
DSM Input Channel

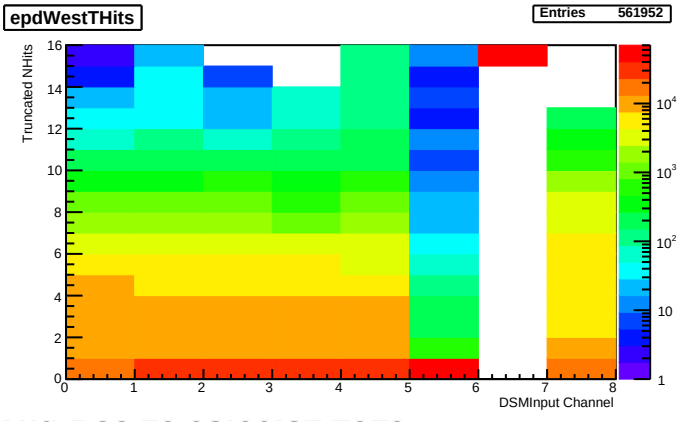

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

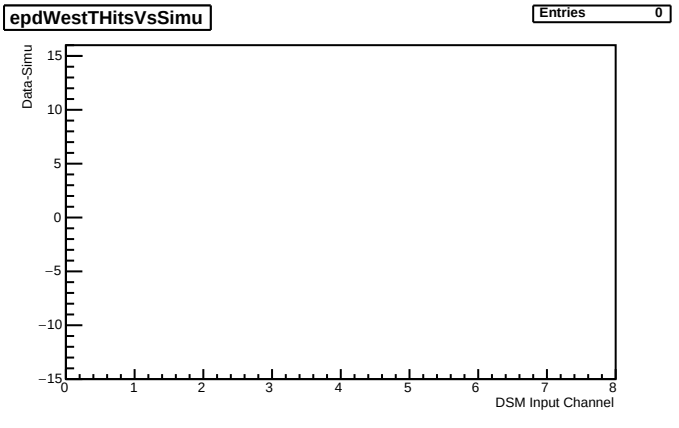

epdEastTHits
Entries 561952
Truncated NHits
DSMInput Channel

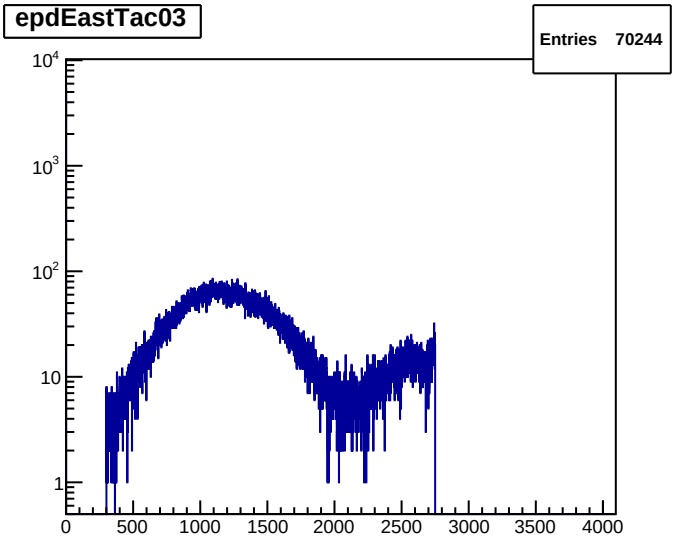

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

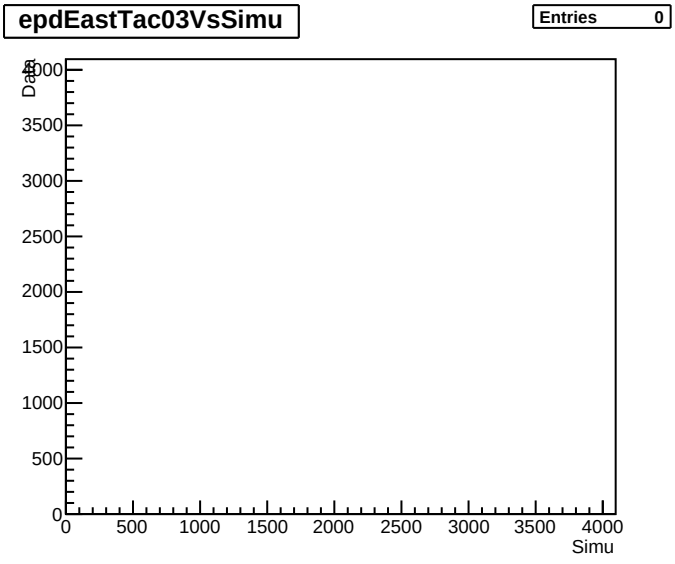

epdWestTacMax
Entries 561952
TAC
DSM Input Channel

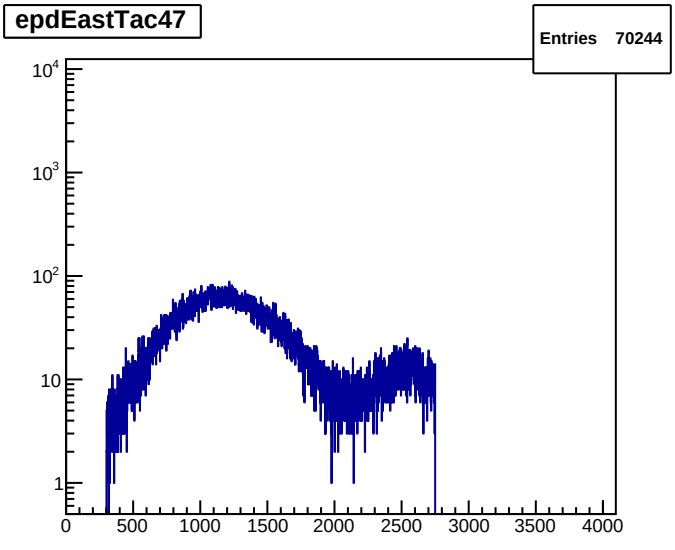

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

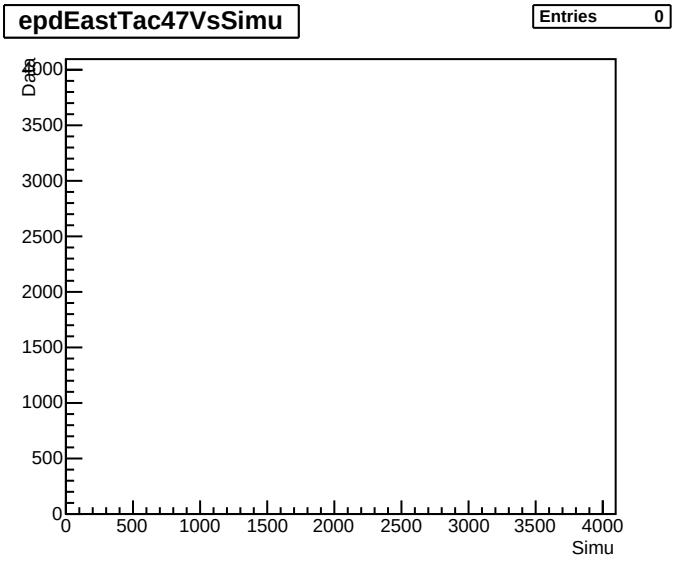

epdWestTHits
Entries 561952
Truncated NHits
DSMInput Channel

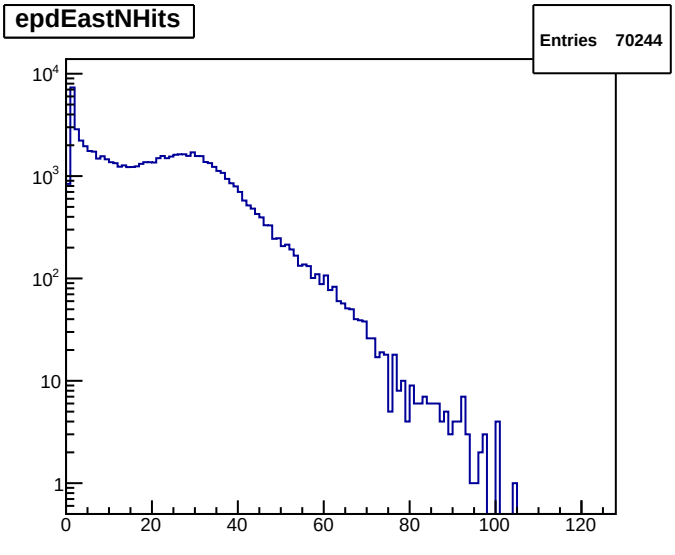

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

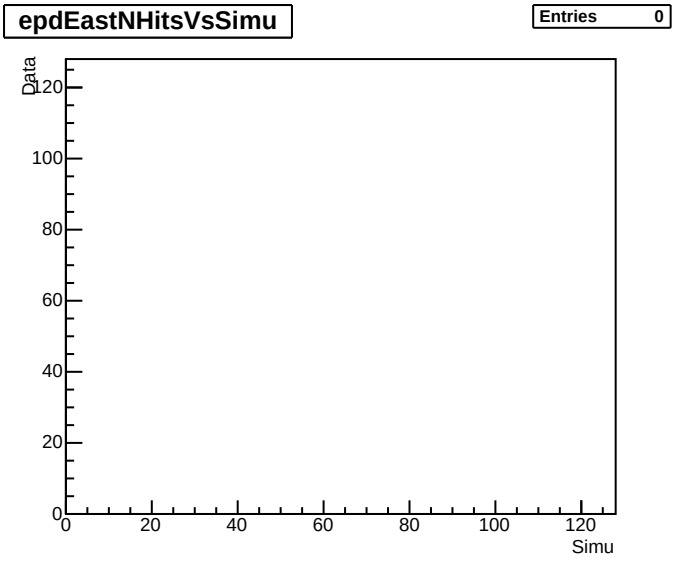

epdEastTac03
Entries 70244

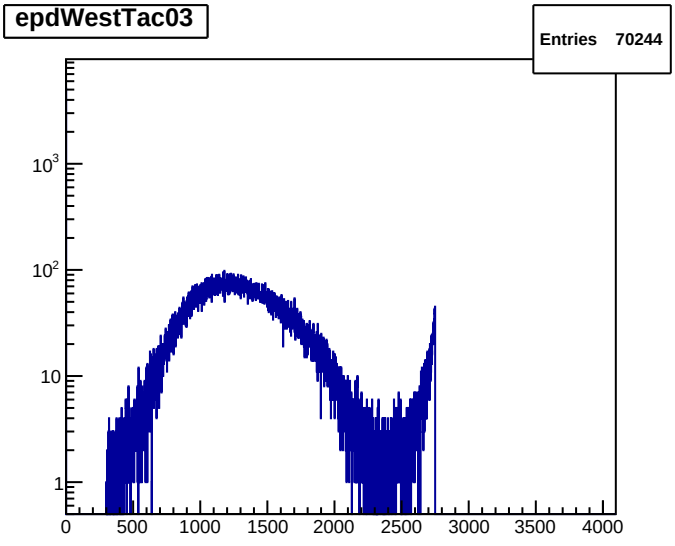

epdEastTac03VsSimu
Entries 0
Data
Simu

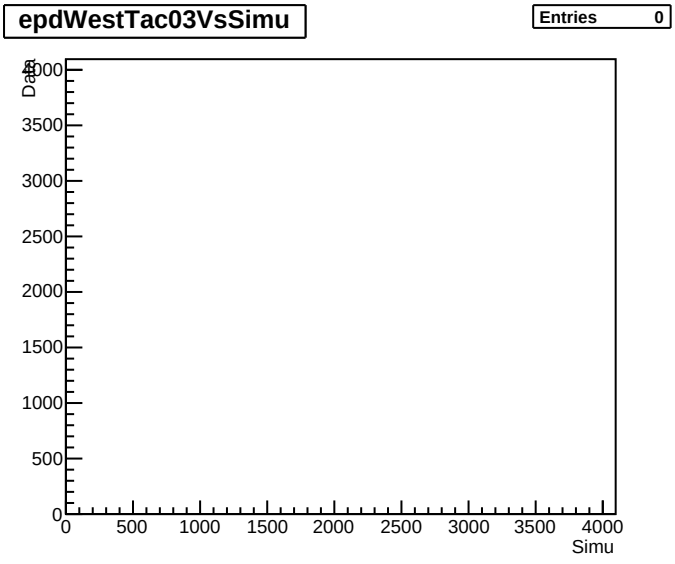

epdEastTac47
Entries 70244

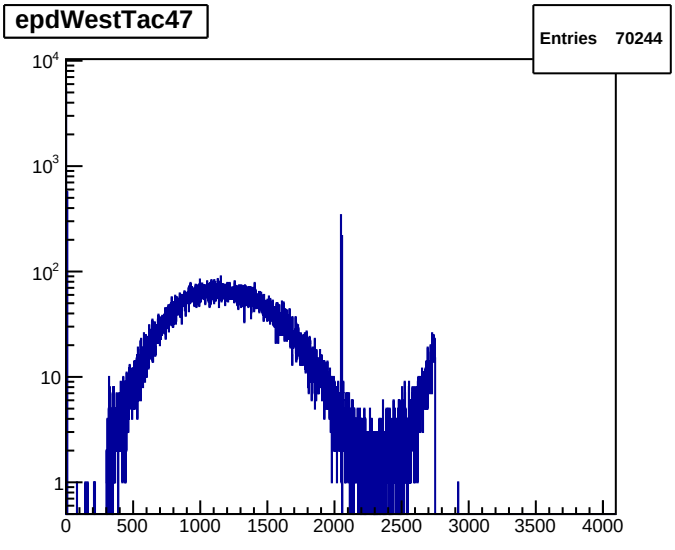

epdEastTac47VsSimu
Entries 0
Data
Simu

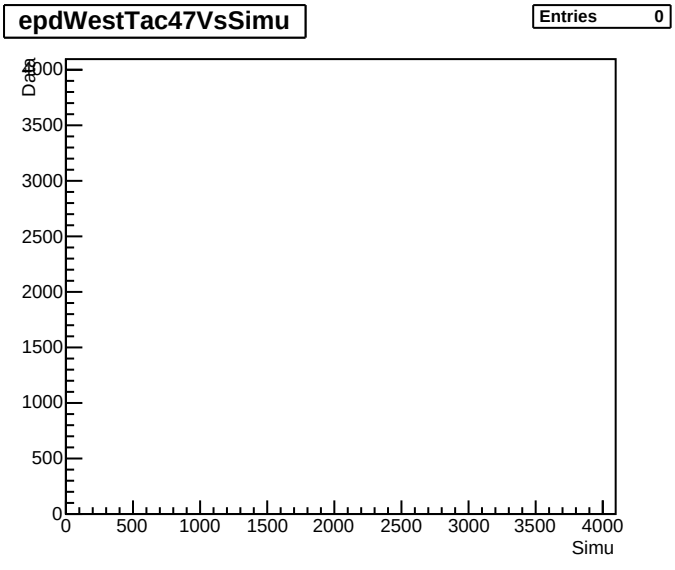

epdEastNHits
Entries 70244

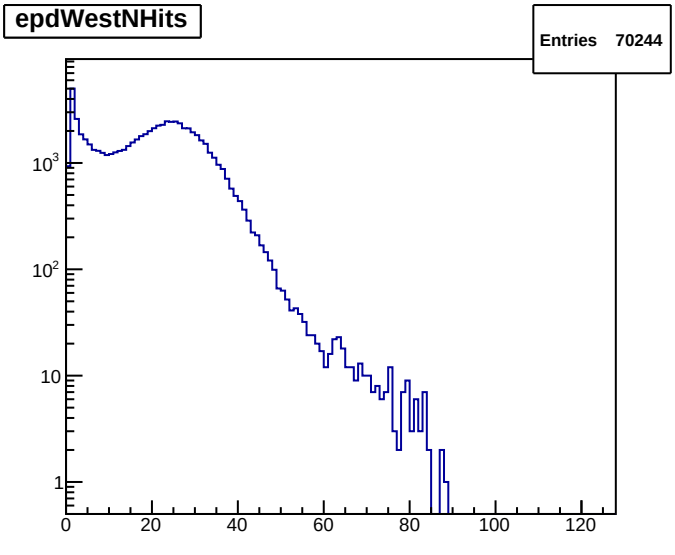

epdEastNHitsVsSimu
Entries 0
Data
Simu

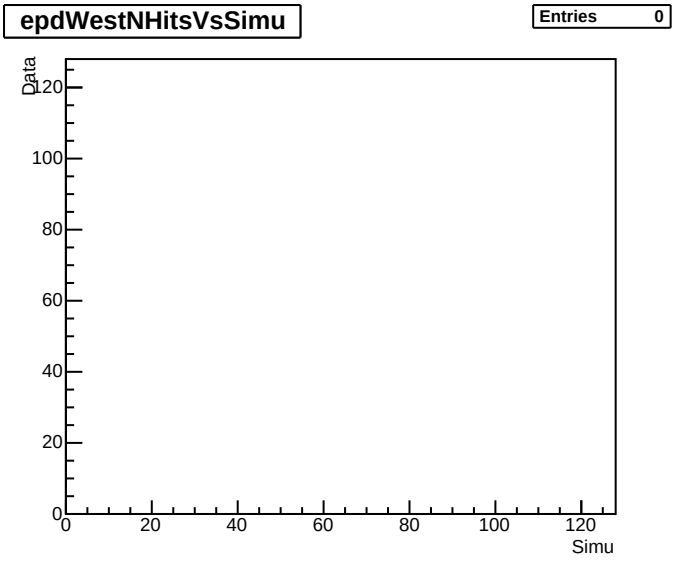

epdWestTac03
Entries 70244

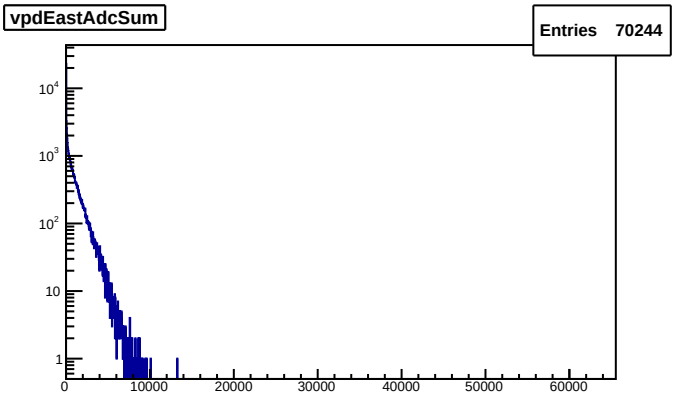

epdWestTac03VsSimu
Entries 0
Data
Simu

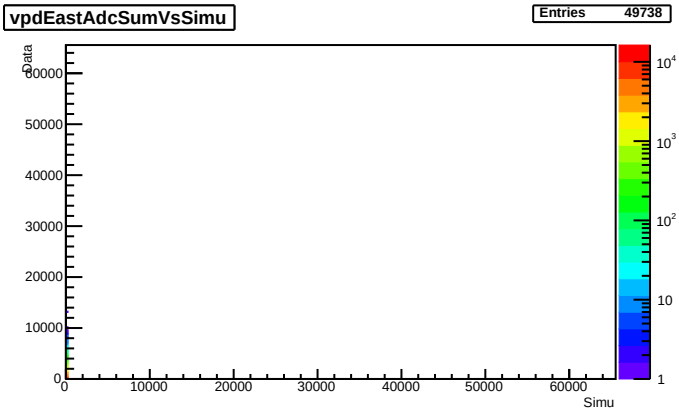

epdWestTac47
Entries 70244

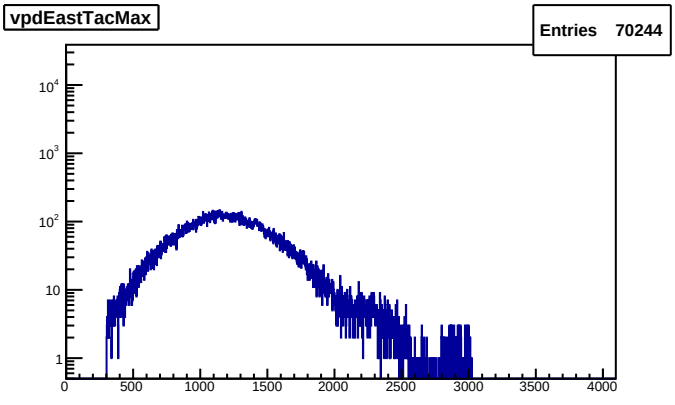

epdWestTac47VsSimu
Entries 0
Data
Simu

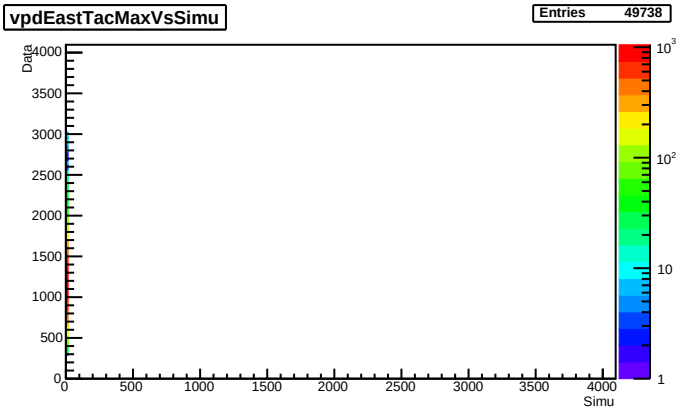

epdWestNHits
Entries 70244

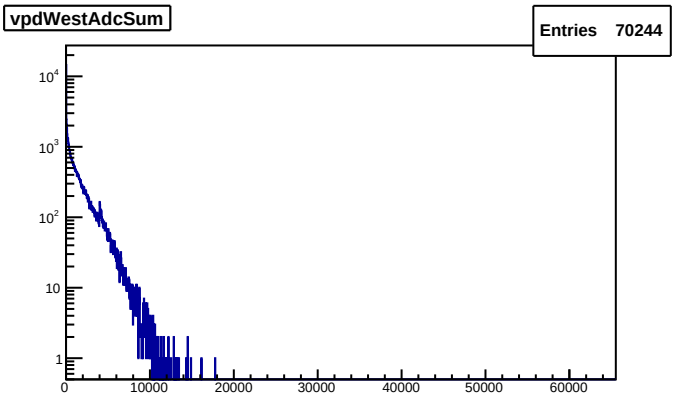

epdWestNHitsVsSimu
Entries 0
Data
Simu

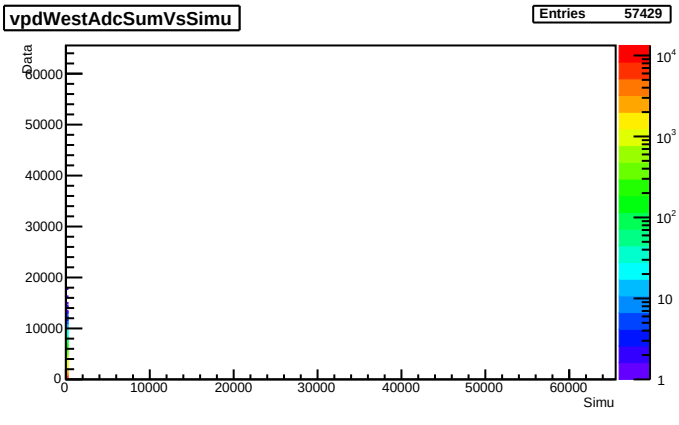

vpdEastAdcSum
Entries 70244

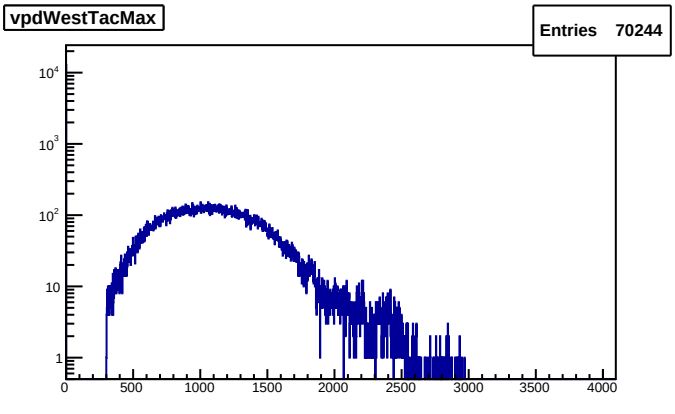

vpdEastAdcSumVsSimu
Entries 49738
Data
Simu

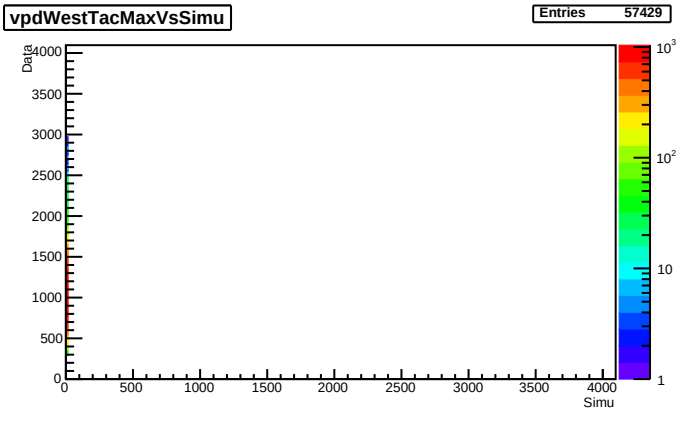

vpdEastTacMax
Entries 70244

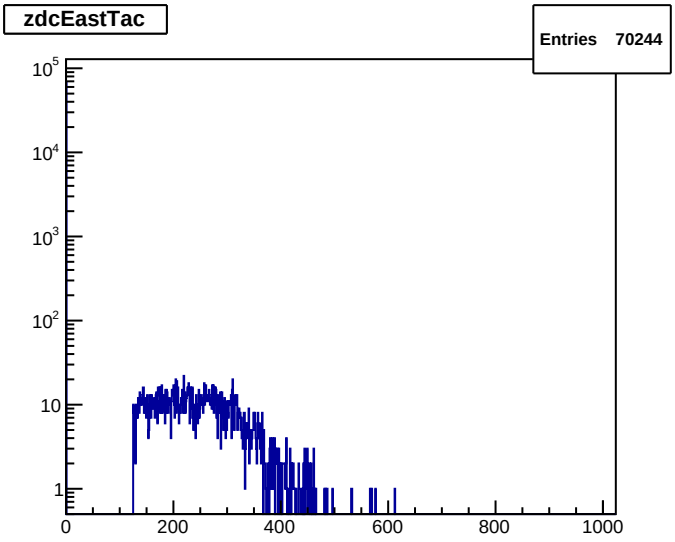

vpdEastTacMaxVsSimu
Entries 49738
Data
Simu

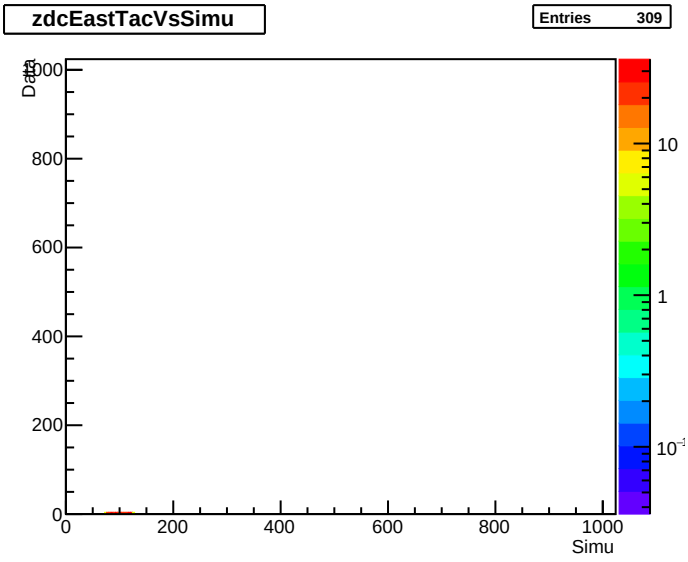

vpdWestAdcSum
Entries 70244

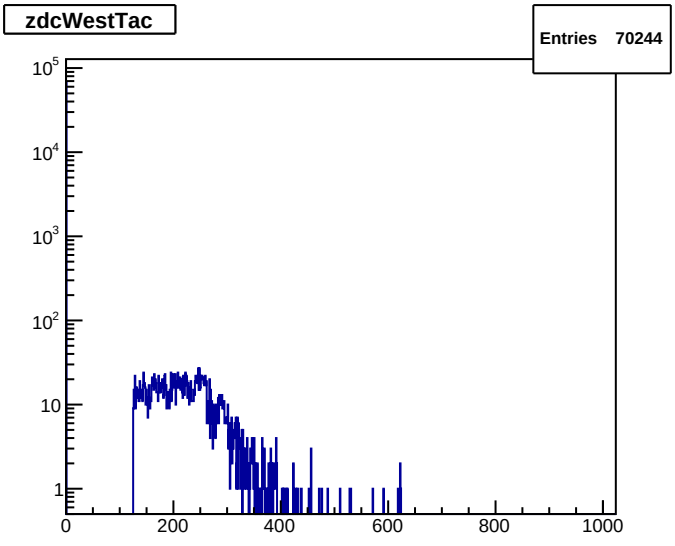

vpdWestAdcSumVsSimu
Entries 57429
Data
Simu

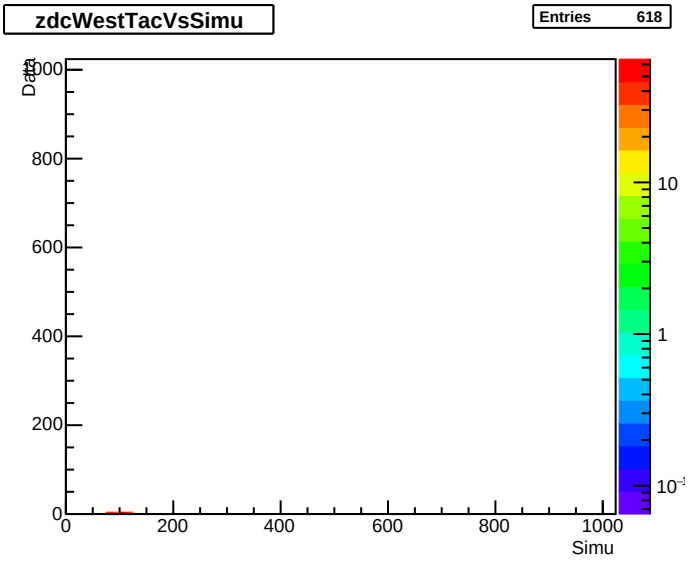

vpdWestTacMax
Entries 70244

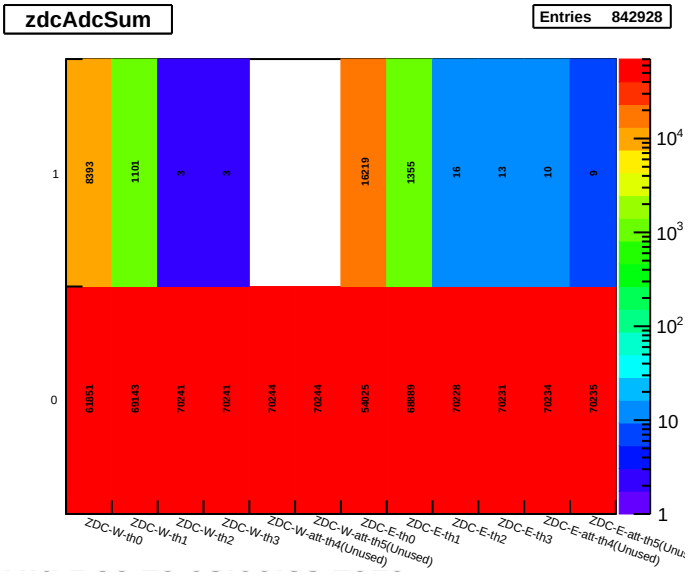

vpdWestTacMaxVsSimu
Entries 57429
Data
Simu

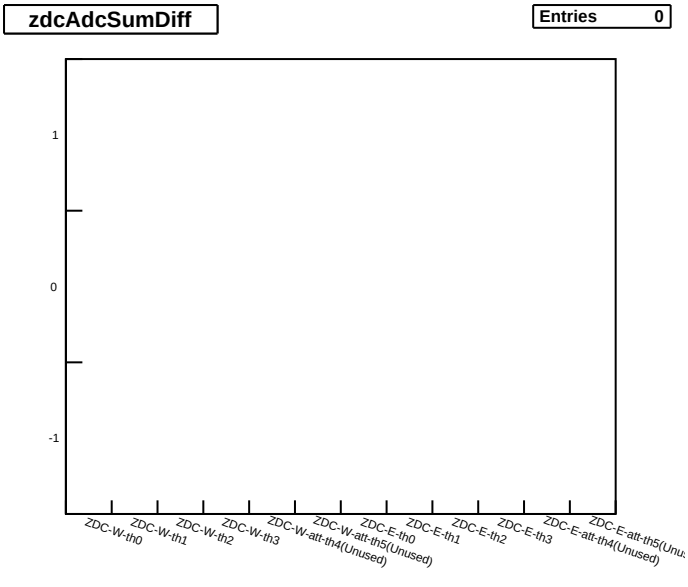

zdcEastTac
Entries 70244

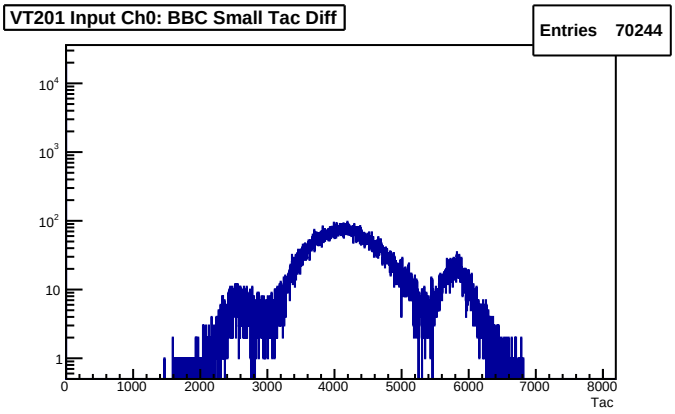

zdcEastTacVsSimu
Entries 309
Data
Simu

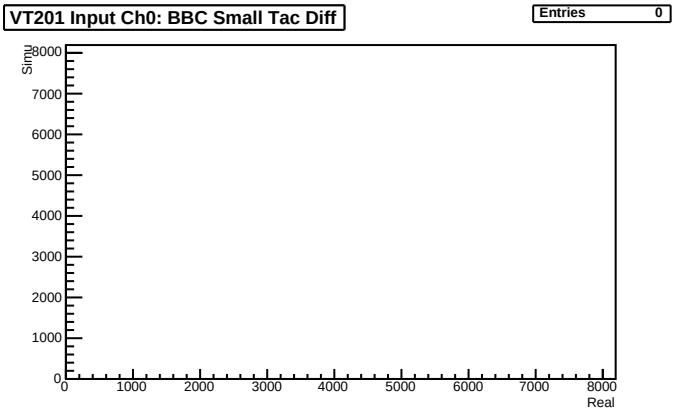

zdcWestTac
Entries 70244

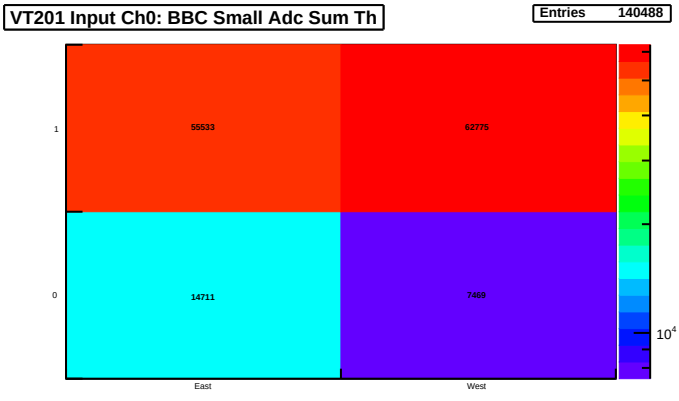

zdcWestTacVsSimu
Entries 618
Data
Simu

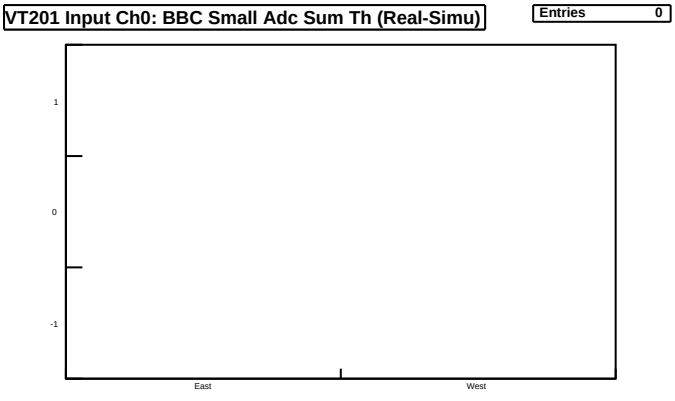

zdcAdcSum
Entries 842928
8393
1101
3
3
16219
1355
16
13
10
9
61851
69143
70241
70241
70244
70244
54025
68889
70228
70231
70234
70235
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

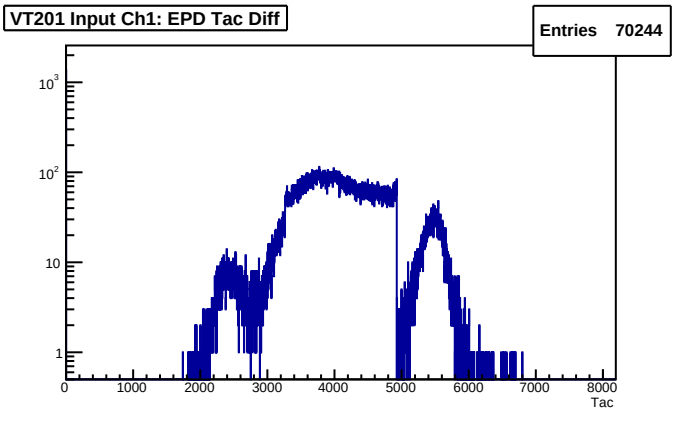

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

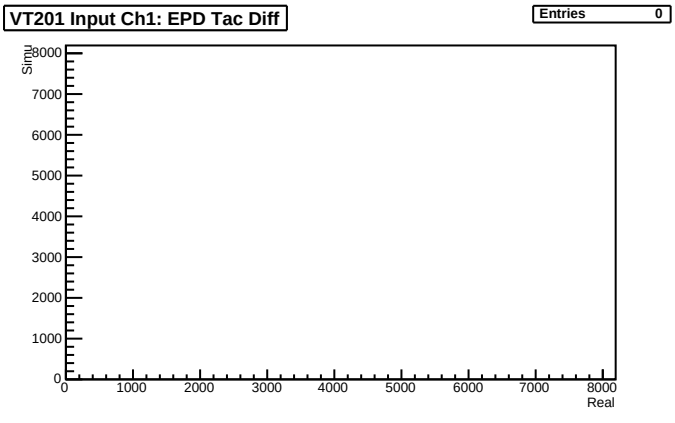

VT201 Input Ch0: BBC Small Tac Diff
Entries 70244
Tac

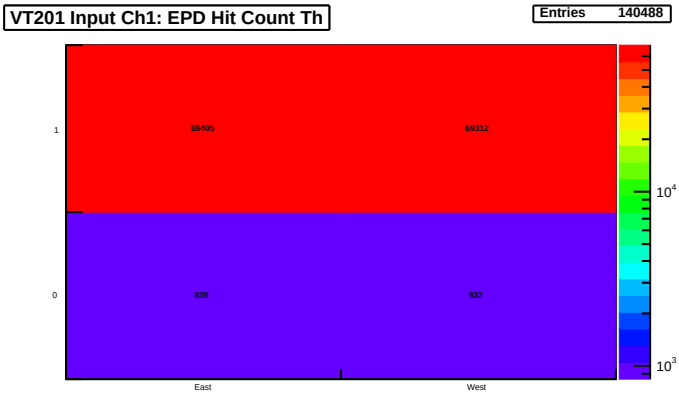

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

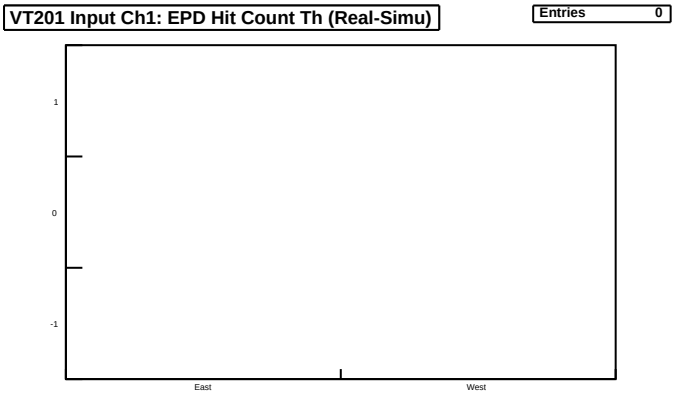

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 140488
55533
62775
14711
7469
East
West

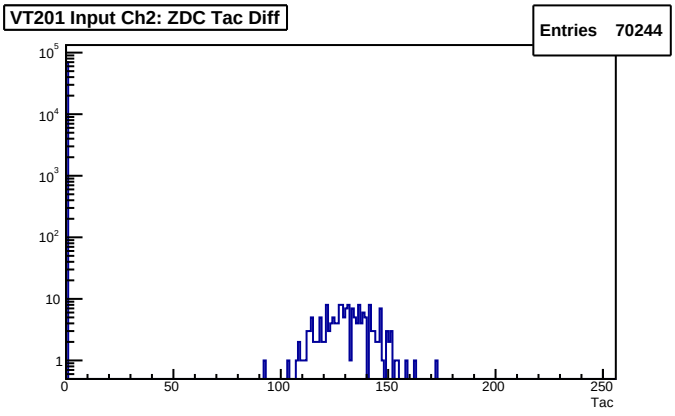

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

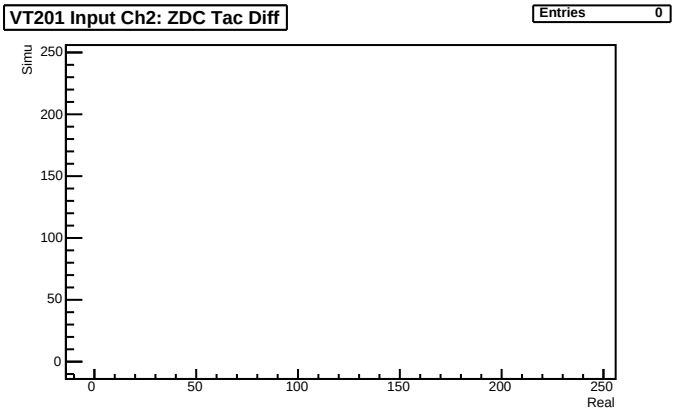

VT201 Input Ch1: EPD Tac Diff
Entries 70244
Tac

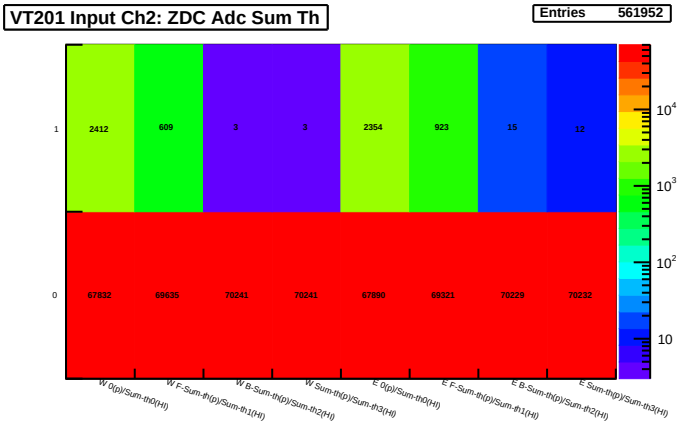

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

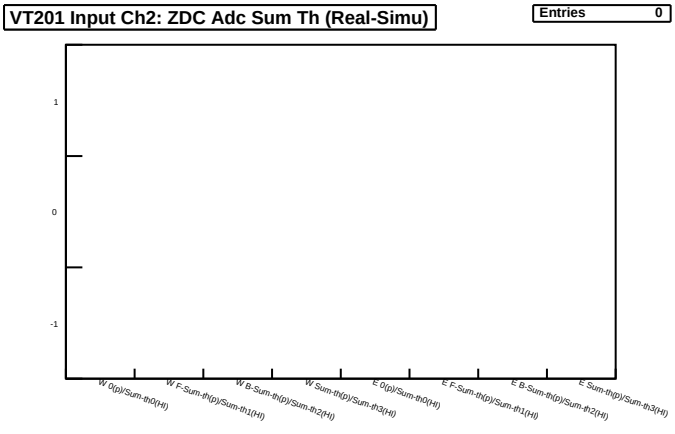

VT201 Input Ch1: EPD Hit Count Th
Entries 140488
69405
69312
839
932
East
West

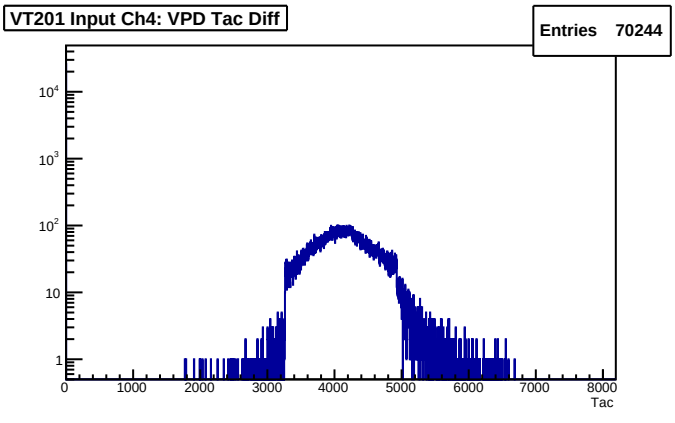

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

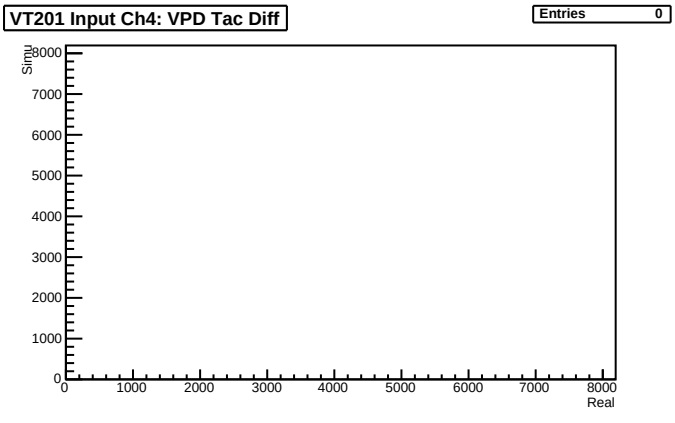

VT201 Input Ch2: ZDC Tac Diff
Entries 70244
Tac

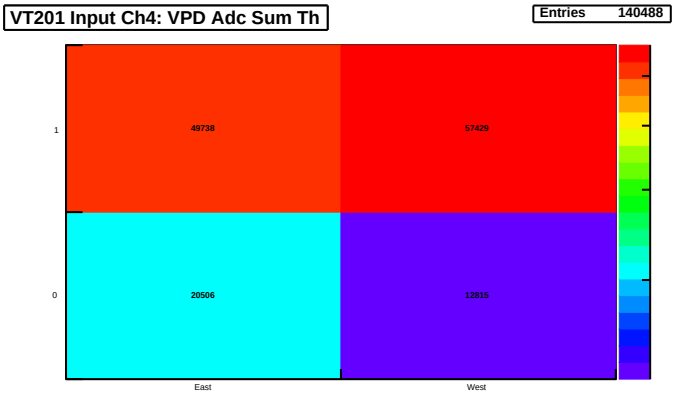

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

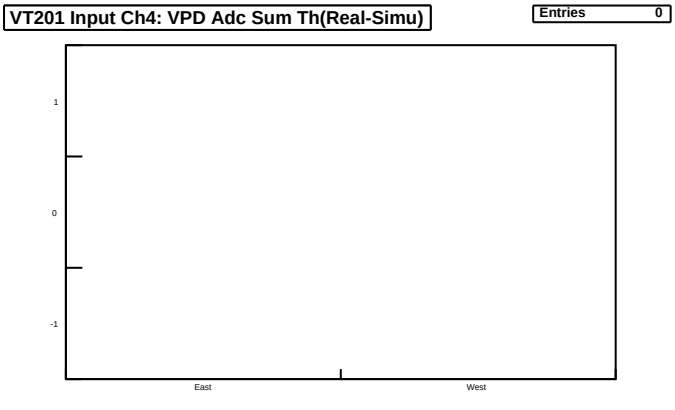

VT201 Input Ch2: ZDC Adc Sum Th
Entries 561952
2412
609
3
3
2354
923
15
12
67832
69635
70241
70241
67890
69321
70229
70232
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

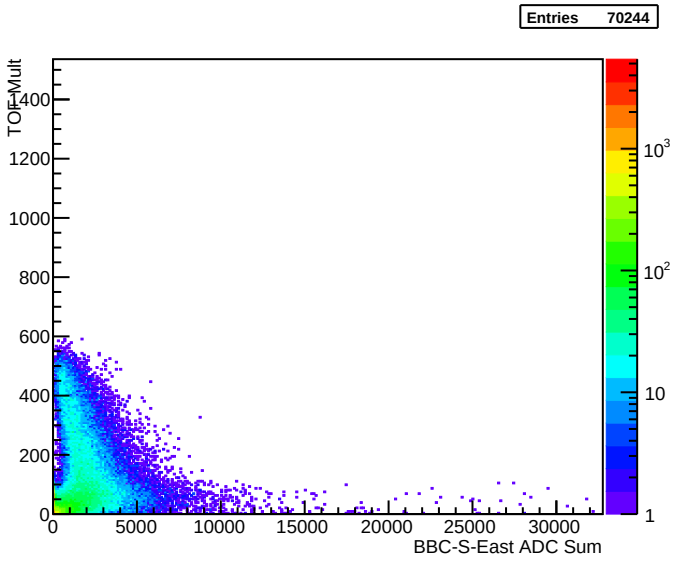

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

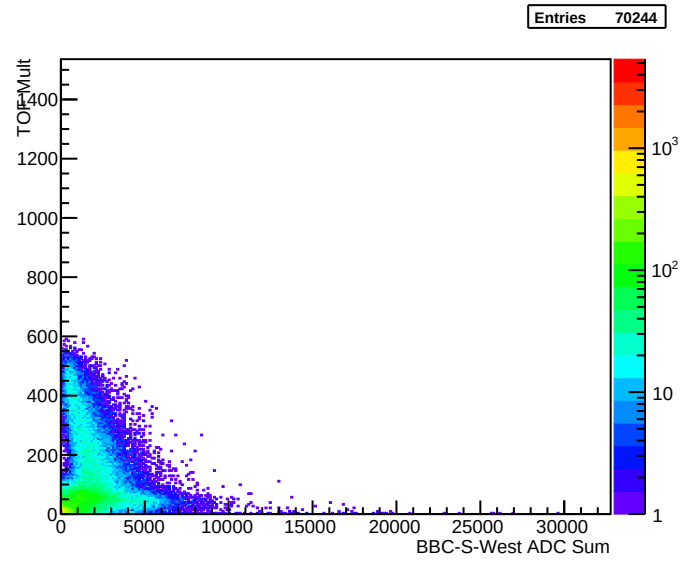

VT201 Input Ch4: VPD Tac Diff
Entries 70244
Tac

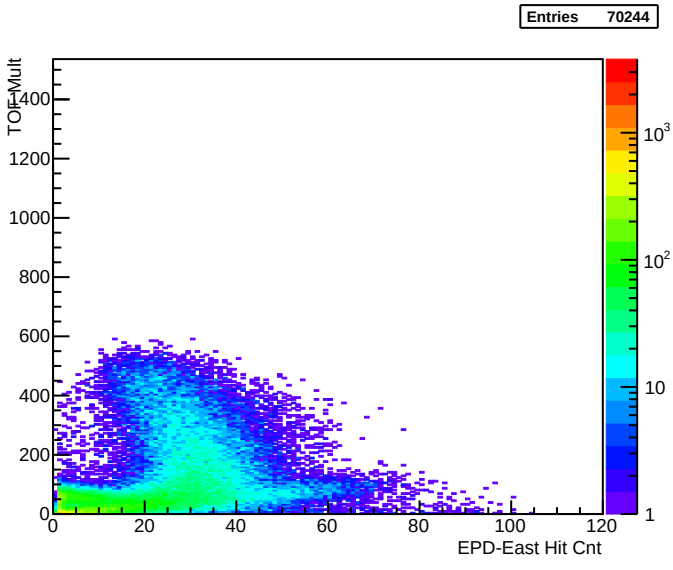

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

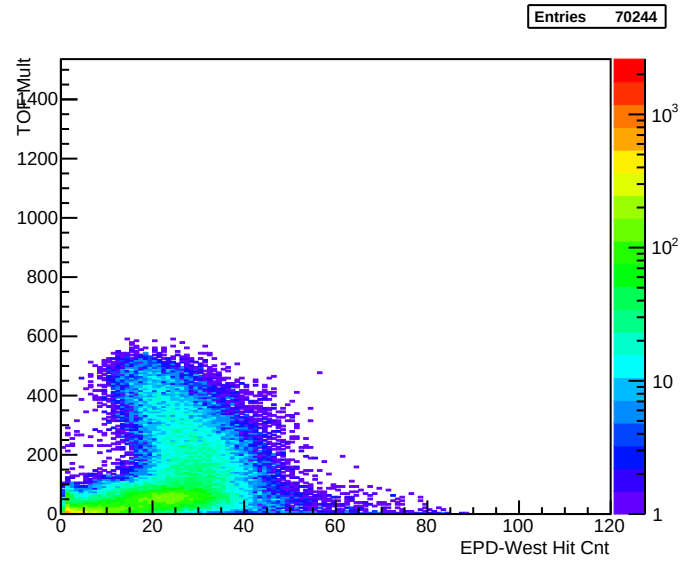

VT201 Input Ch4: VPD Adc Sum Th
Entries 140488
49738
57429
20506
12815
East
West

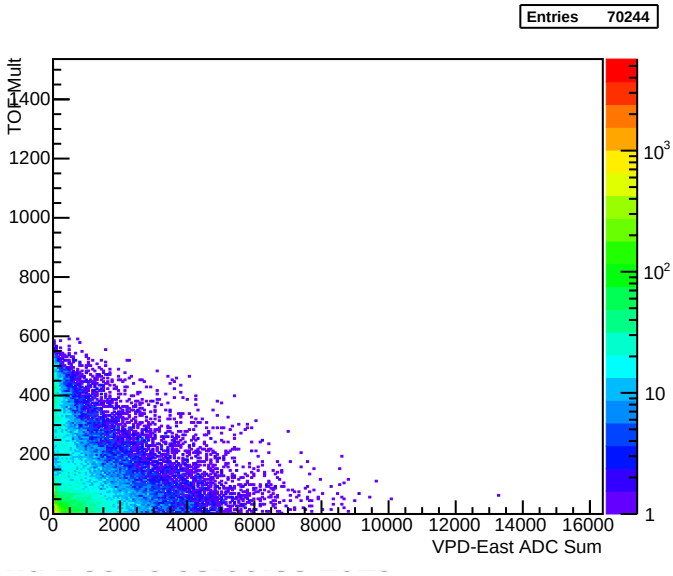

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

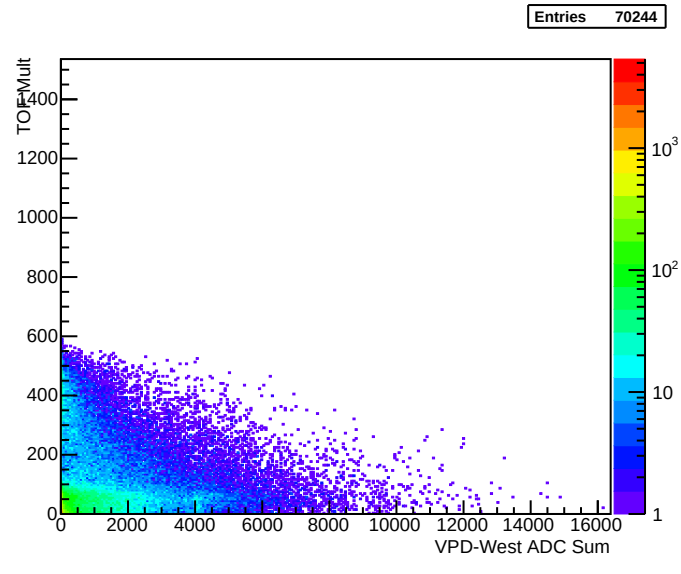

Entries 70244
TOF-Mult
BBC-S-East ADC Sum

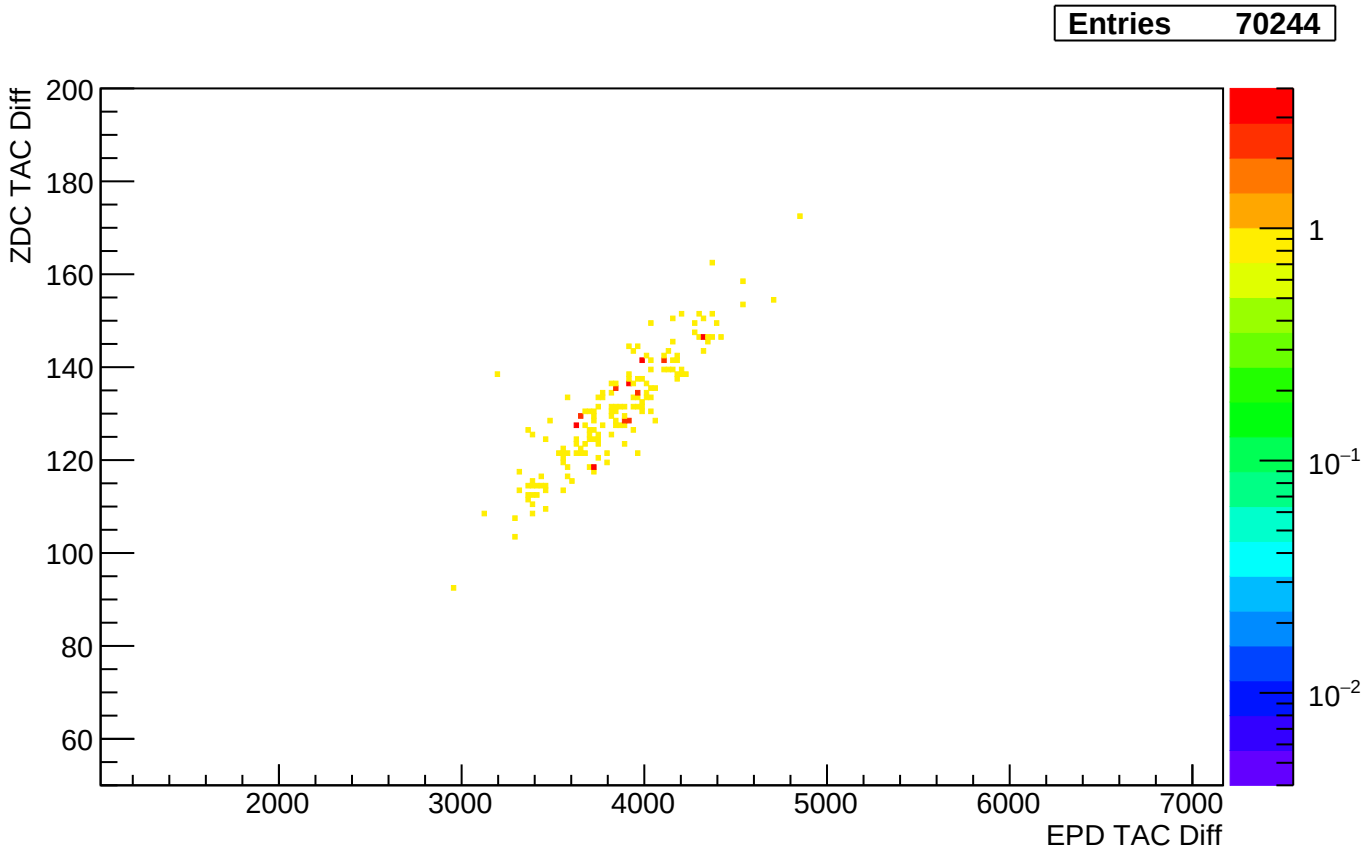

Entries 70244
TOF-Mult
BBC-S-West ADC Sum

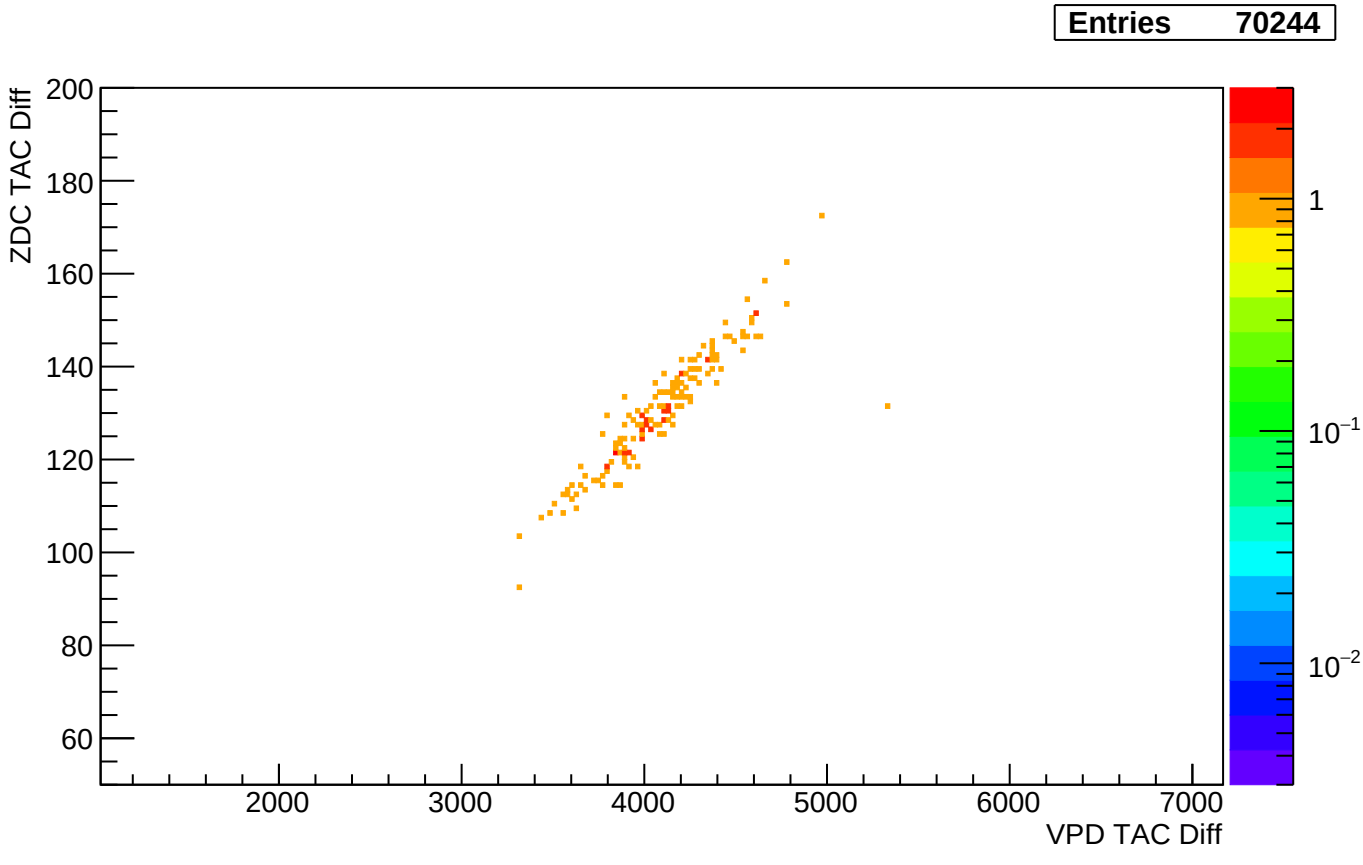

Entries 70244
TOF-Mult
EPD-East Hit Cnt

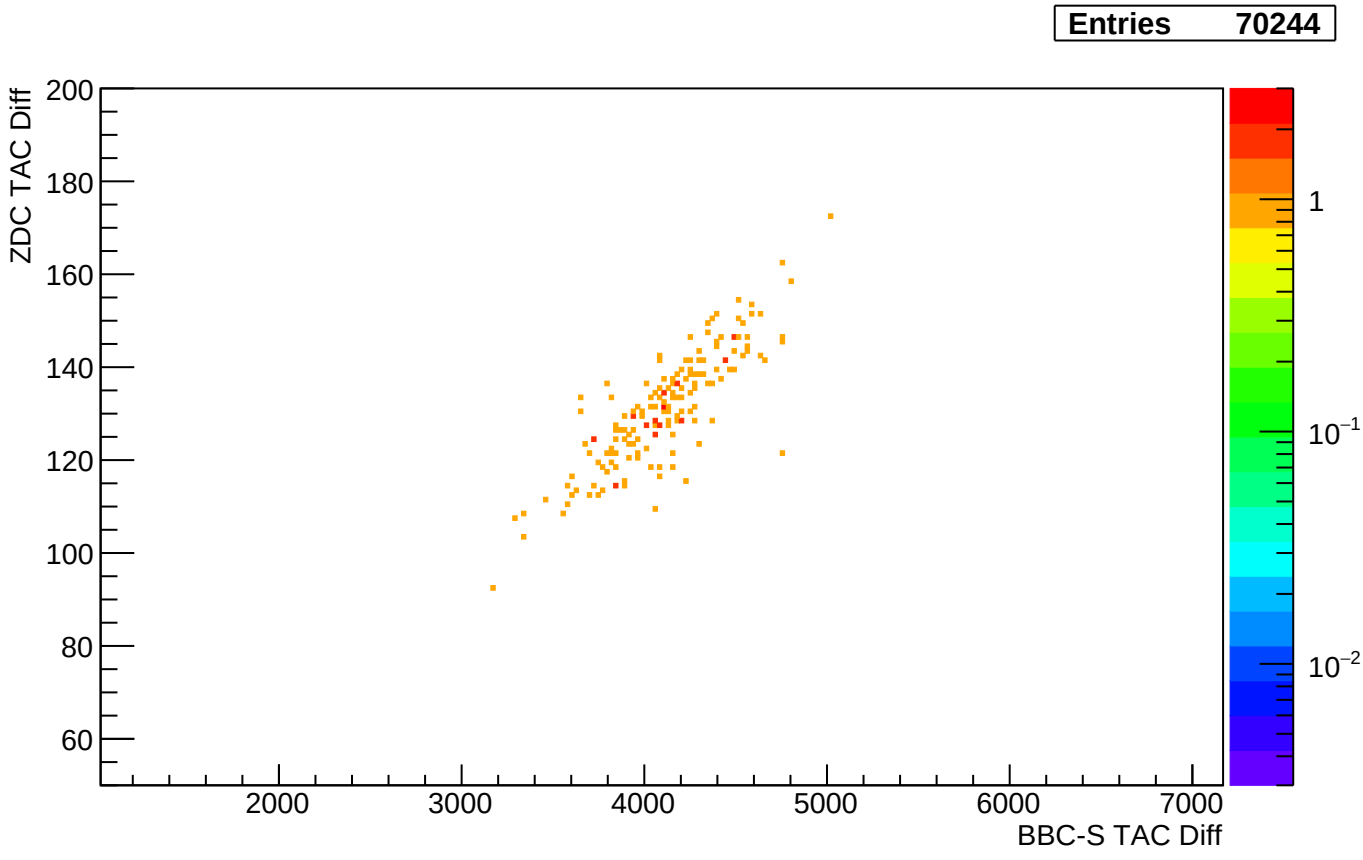

Entries 70244
TOF-Mult
EPD-West Hit Cnt

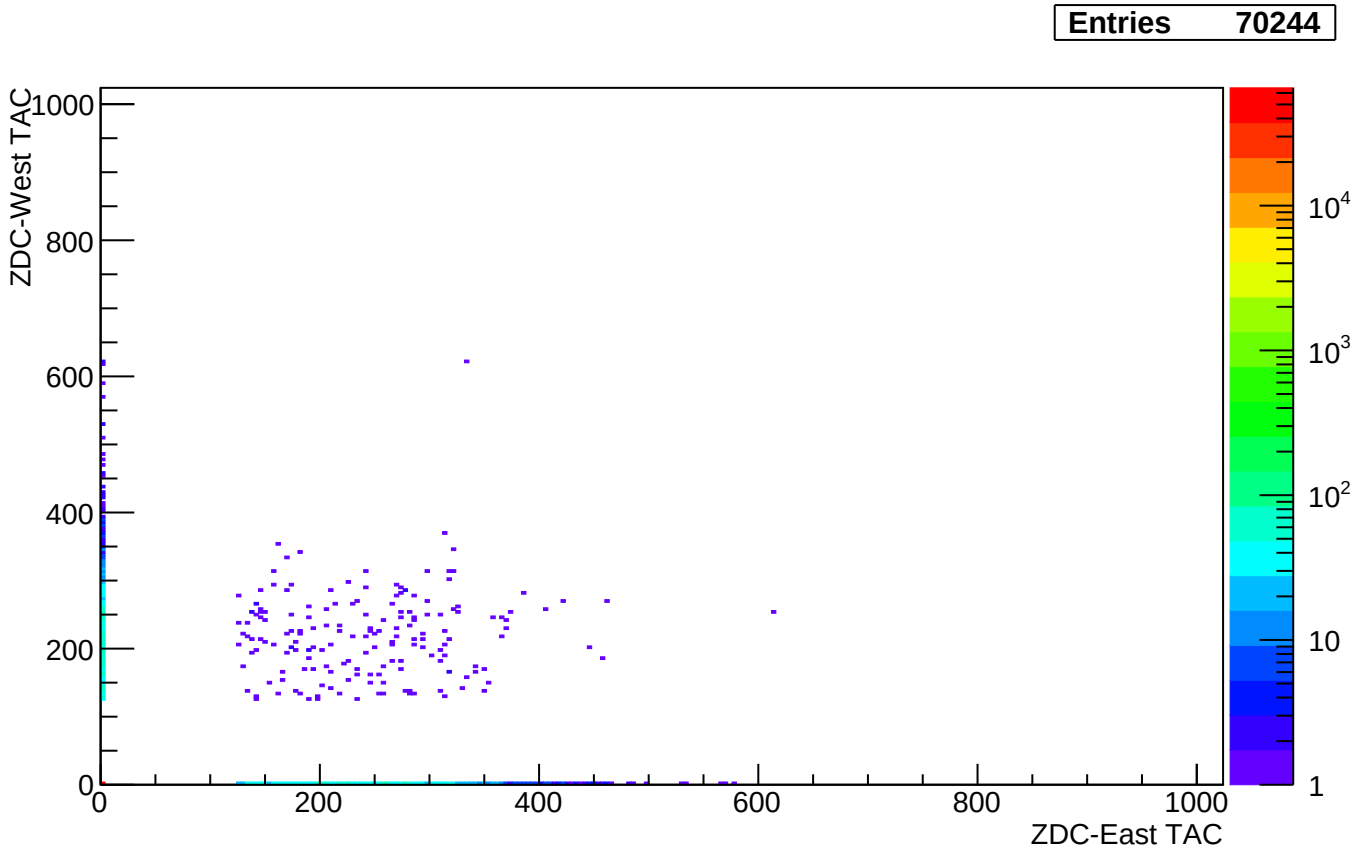

Entries 70244
TOF-Mult
VPD-East ADC Sum

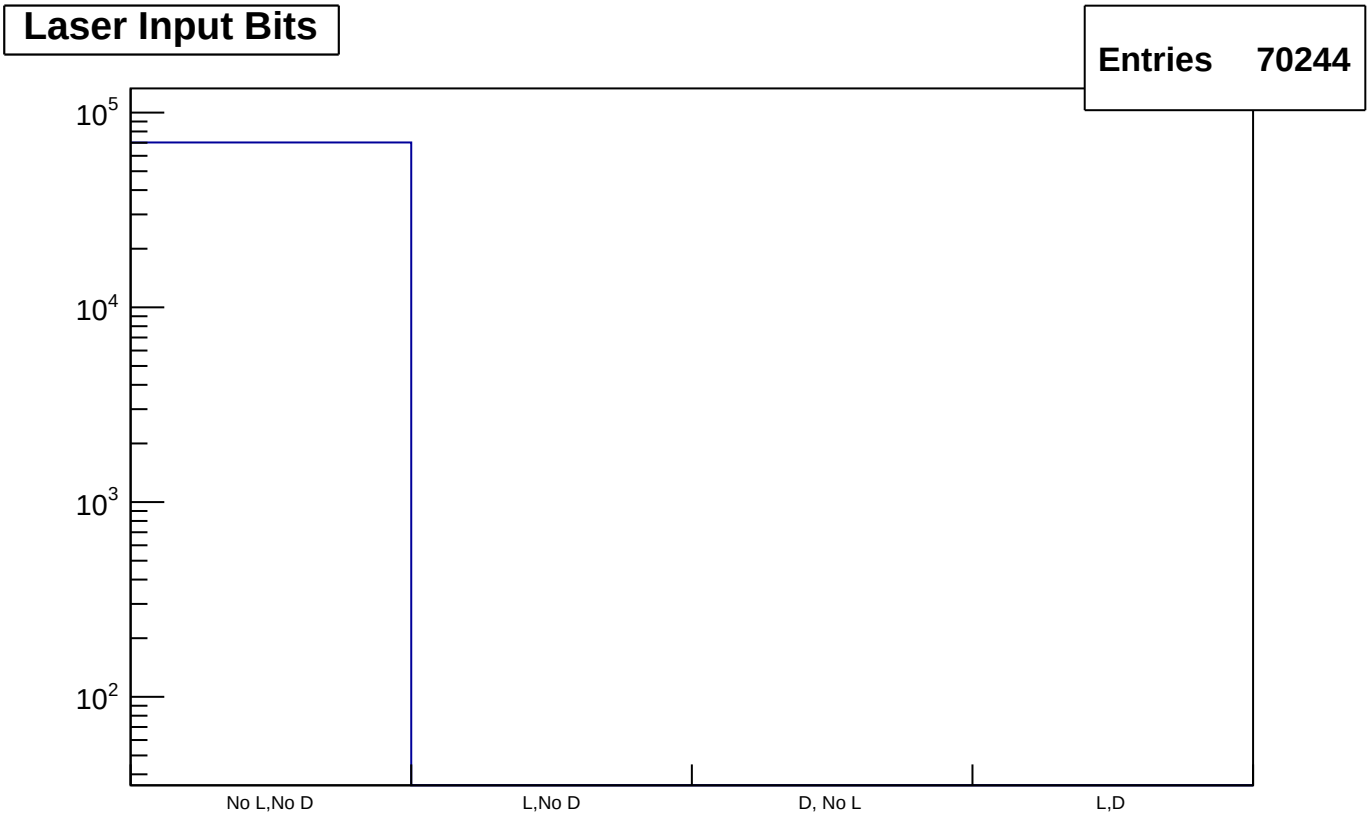

Entries 70244
TOF-Mult
VPD-West ADC Sum

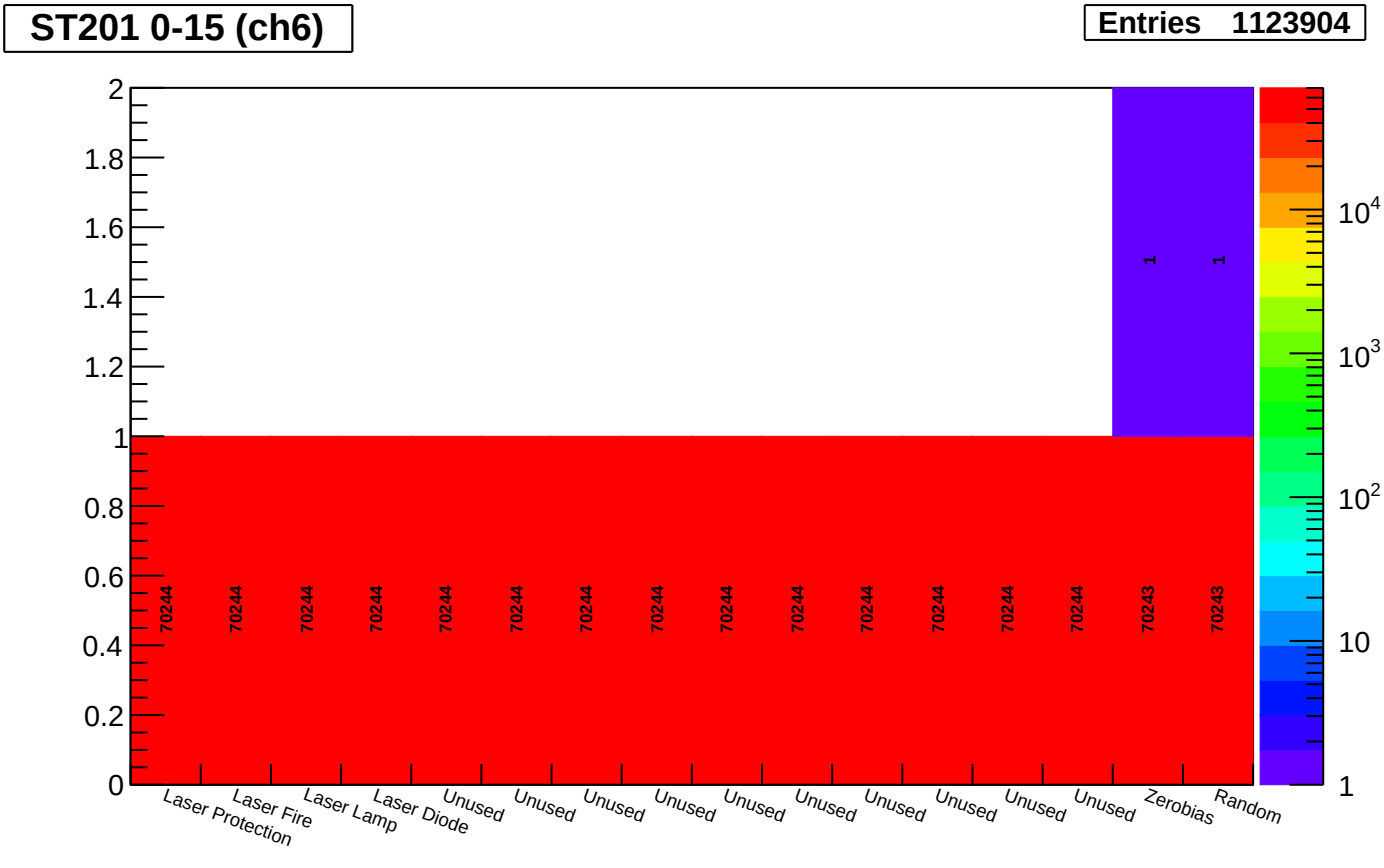

Entries 70244
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
$10^{-1}$
$10^{-2}$

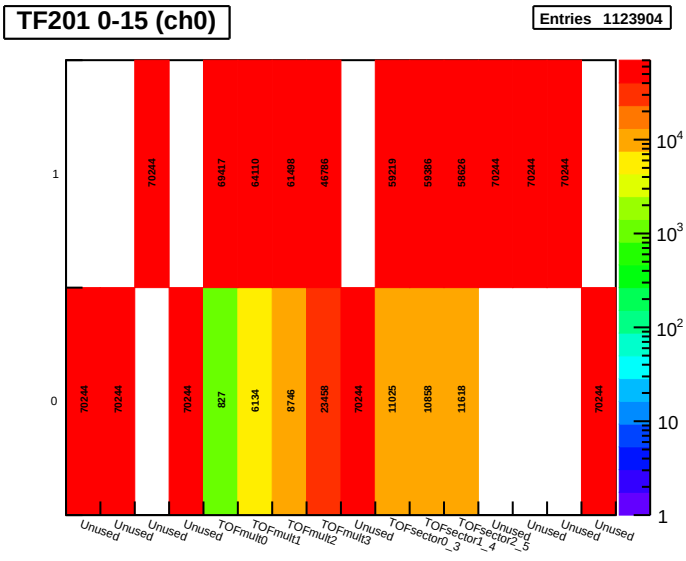

Entries 70244
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
$10^{-1}$
$10^{-2}$

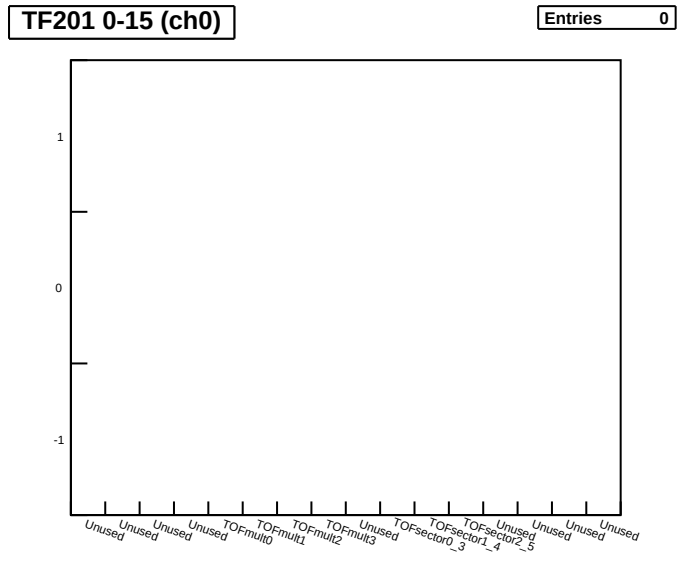

Entries 70244
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
$10^{-1}$
$10^{-2}$

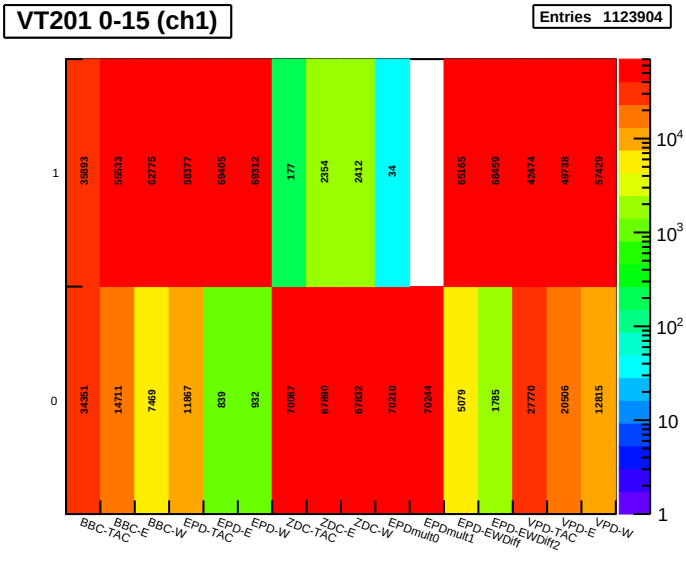

Entries 70244
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^4$
$10^3$
$10^2$
10
1

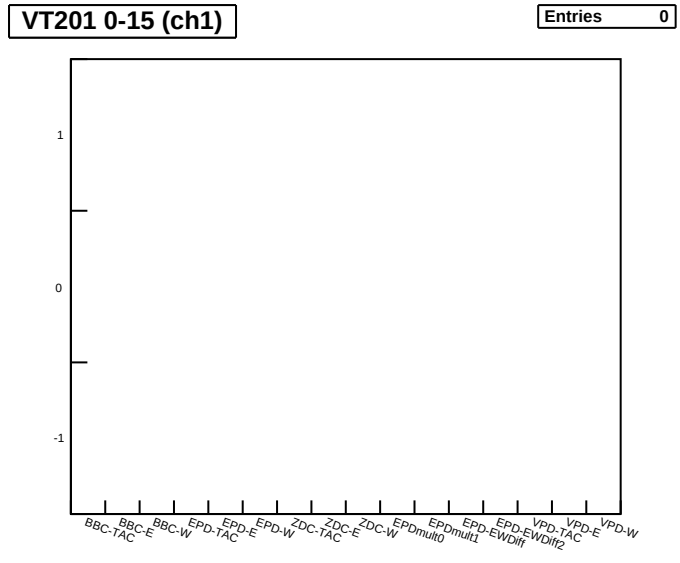

Laser Input Bits
Entries 70244
$10^5$
$10^4$
$10^3$
$10^2$
No L,No D
L,No D
D, No L
L,D

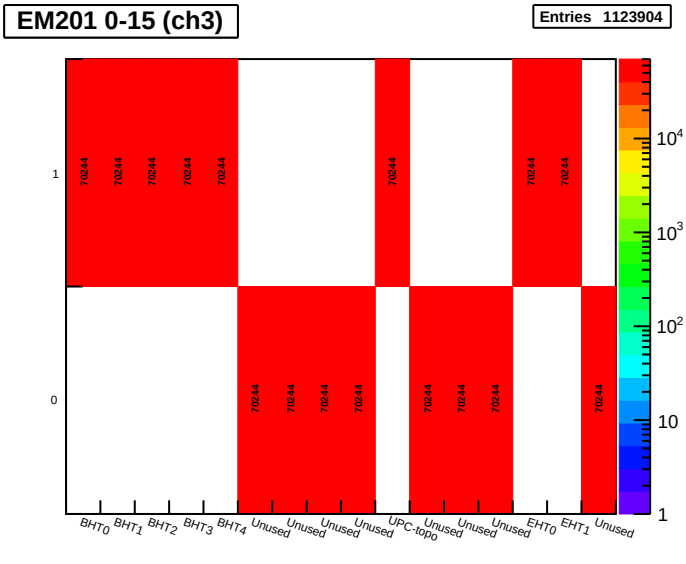

ST201 0-15 (ch6)
Entries 1123904
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
70244
70243
1
$10^4$
$10^3$
$10^2$
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

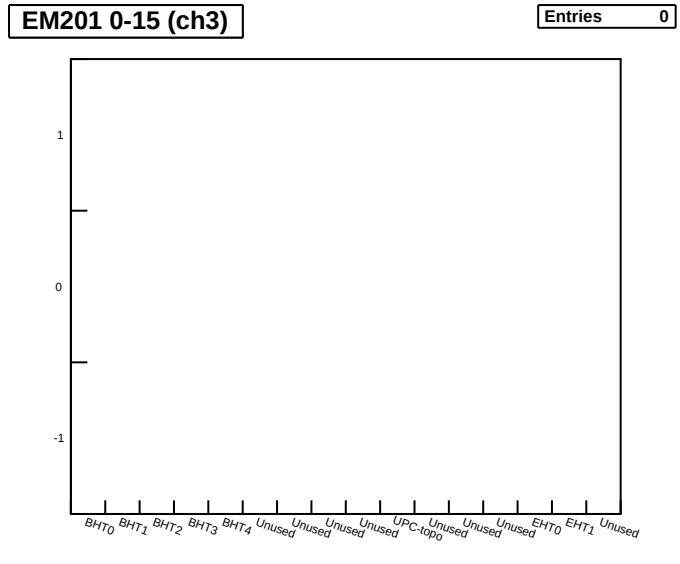

TF201 0-15 (ch0)
Entries 1123904
1
0
70244 69417 64110 61488 46786 59219 59386 58626 70244 70244 70244
70244 70244 70244 827 6134 8746 23458 70244 11025 10858 11618 70244
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused 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 Unused


VT201 0-15 (ch1)
Entries 1123904
1
0
35893 55533 62775 53377 69405 63312 177 2354 2412 34 65165 68459 42474 49738 57429
34351 14711 7469 11867 839 932 70067 67880 67832 70210 70244 5079 1785 27770 20506 12815
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 1123904
1
0
70244 70244 70244 70244 70244 70244 70244 70244
70244 70244 70244 70244 70244 70244 70244 70244
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