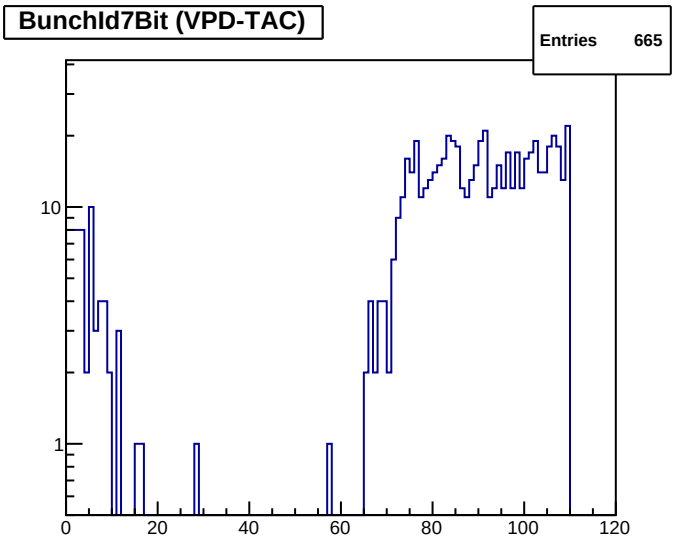
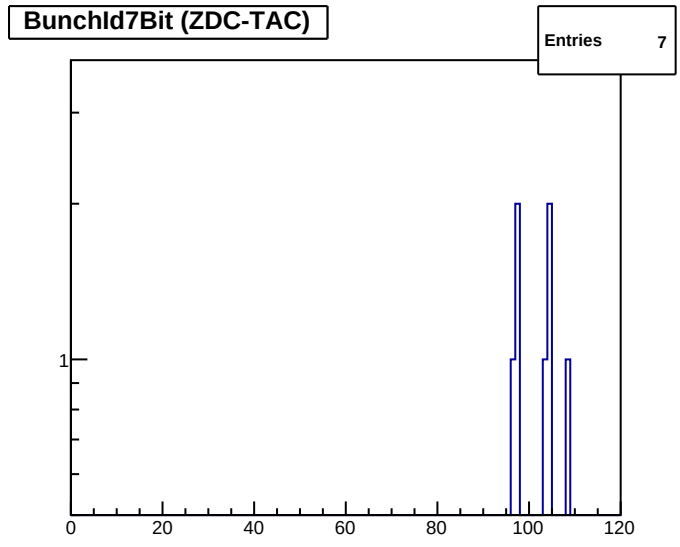
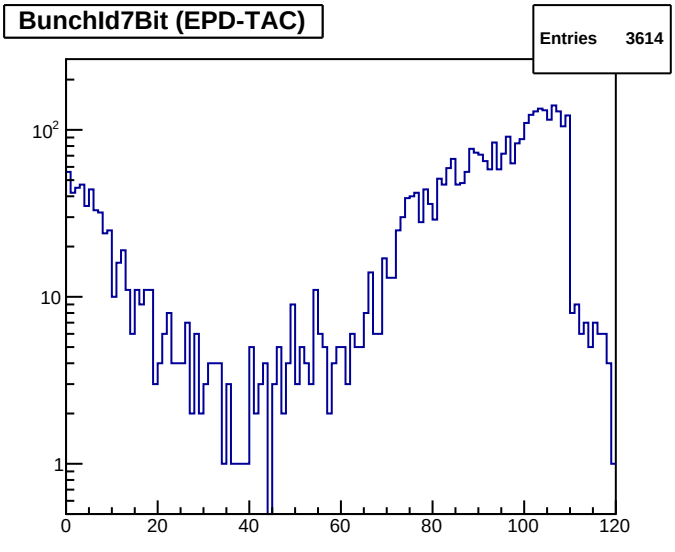
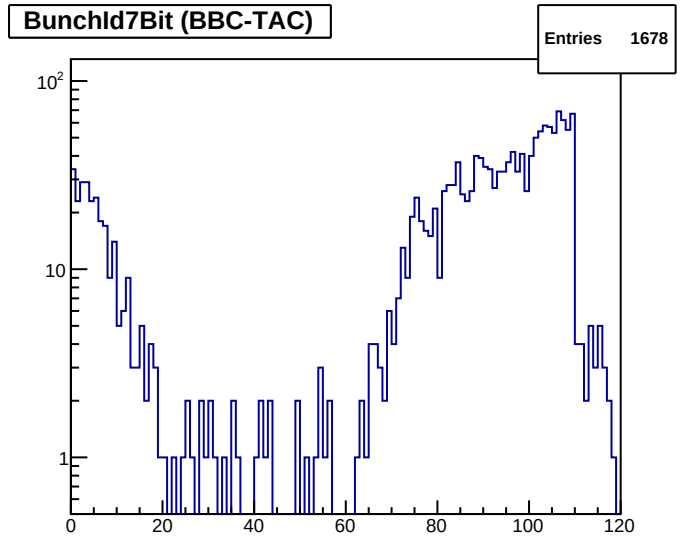
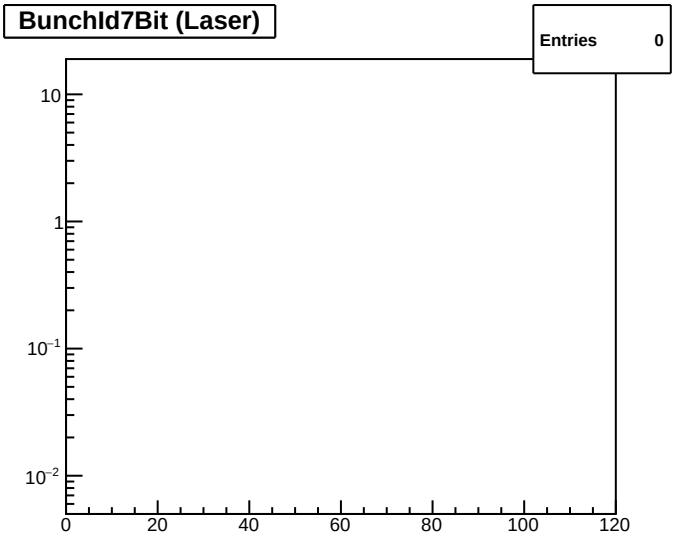
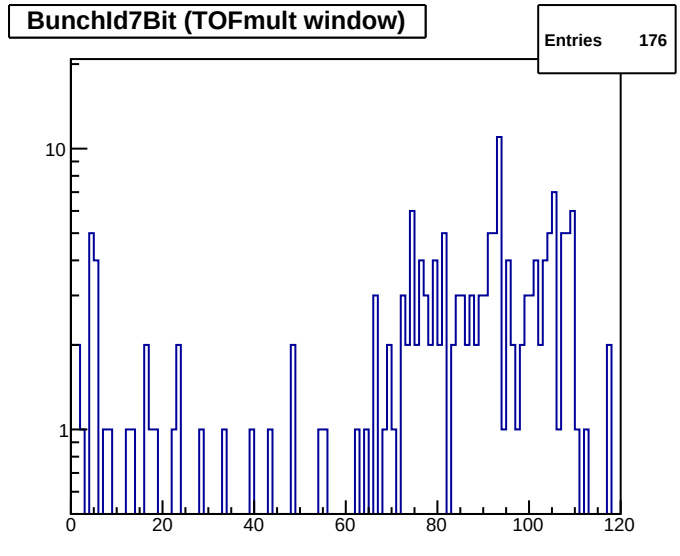

BunchId7Bit (VPD-TAC)
Entries 665
10
1
0
20
40
60
80
100
120

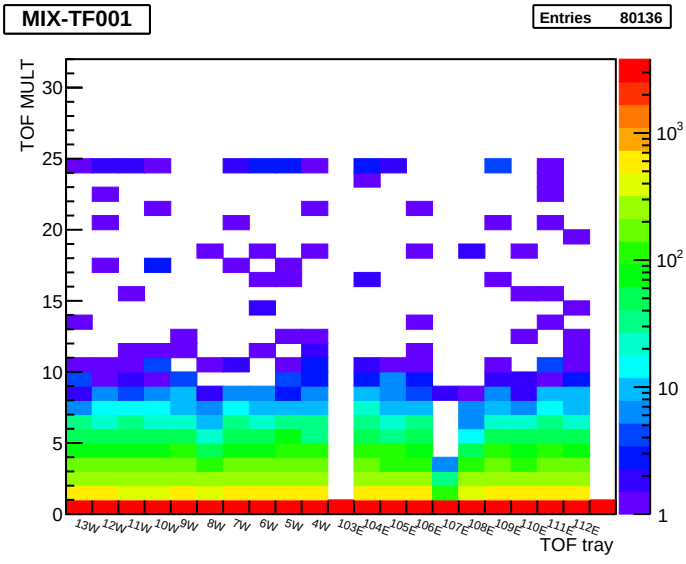

BunchId7Bit (ZDC-TAC)
Entries 7
1
0
20
40
60
80
100
120

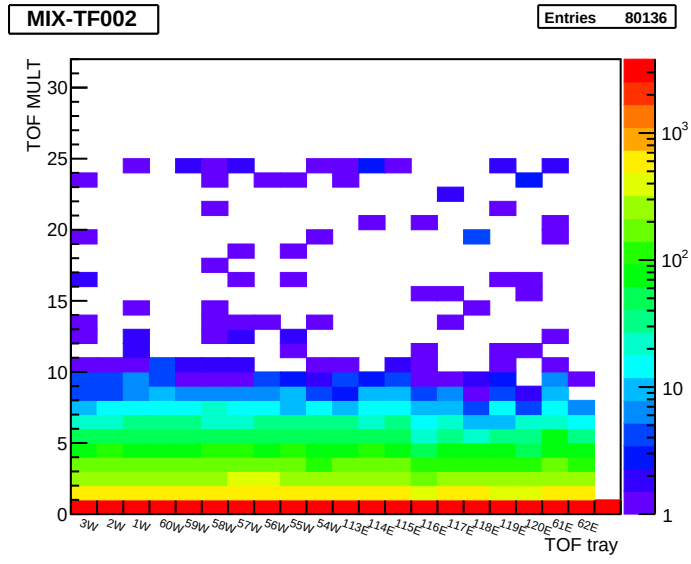

BunchId7Bit (EPD-TAC)
Entries 3614
10^2
10
1
0
20
40
60
80
100
120

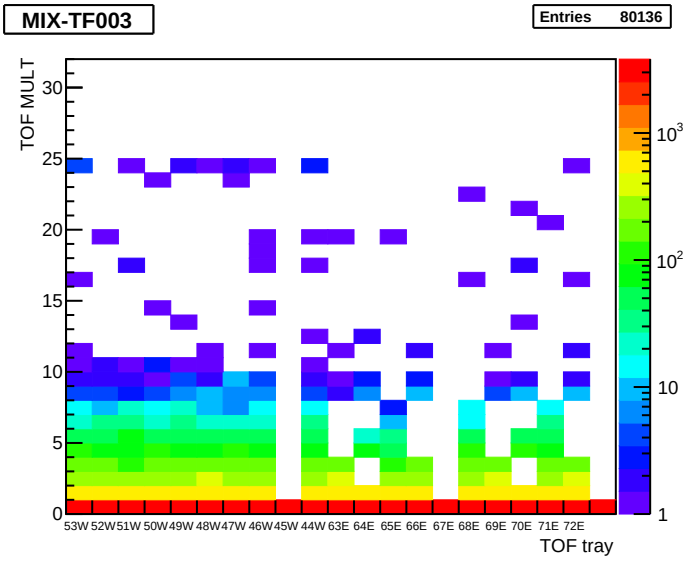

BunchId7Bit (BBC-TAC)
Entries 1678
10^2
10
1
0
20
40
60
80
100
120

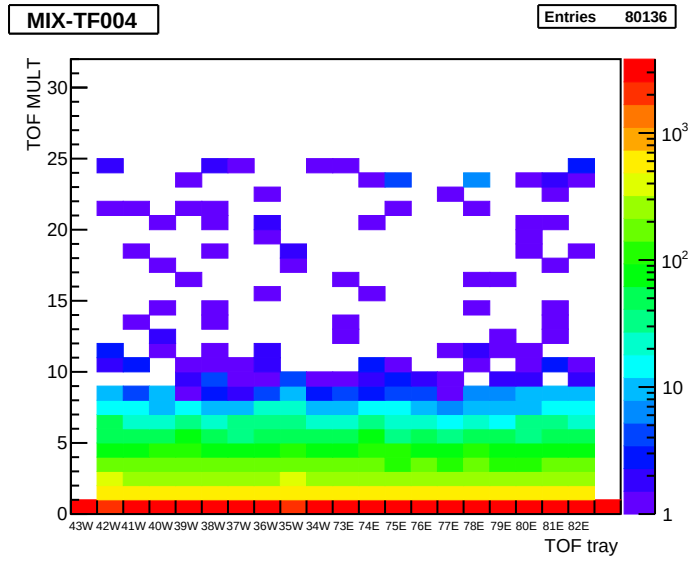

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

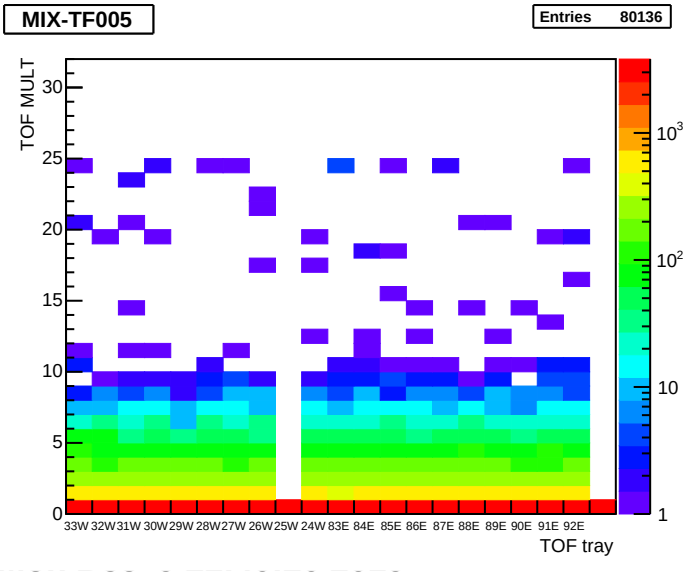

BunchId7Bit (TOFmult window)
Entries 176
10
1
0
20
40
60
80
100
120

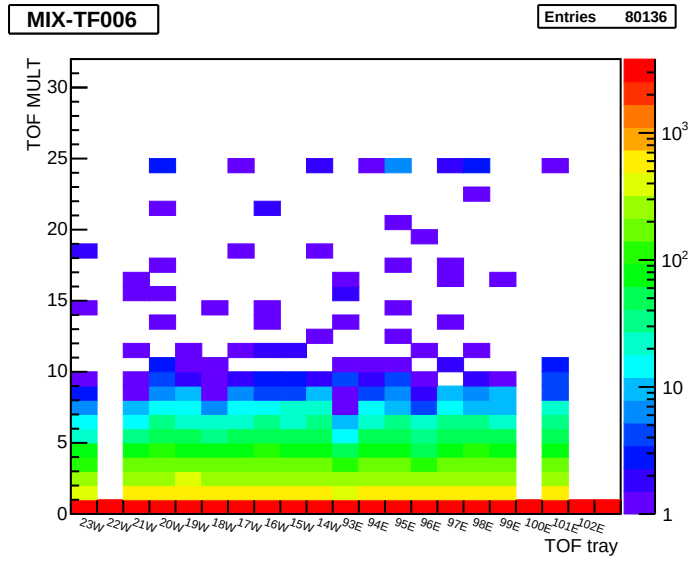

MIX-TF001
Entries 80136
TOF MULT
TOF tray

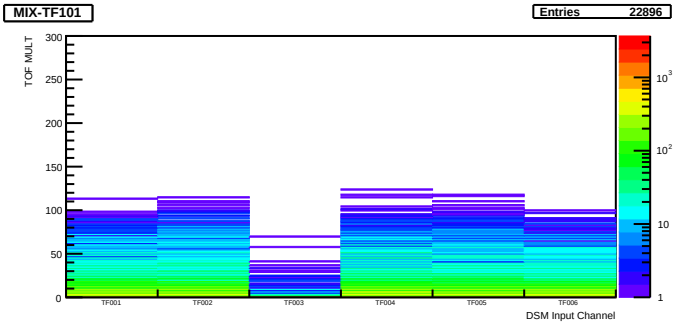

MIX-TF002
Entries 80136
TOF MULT
TOF tray

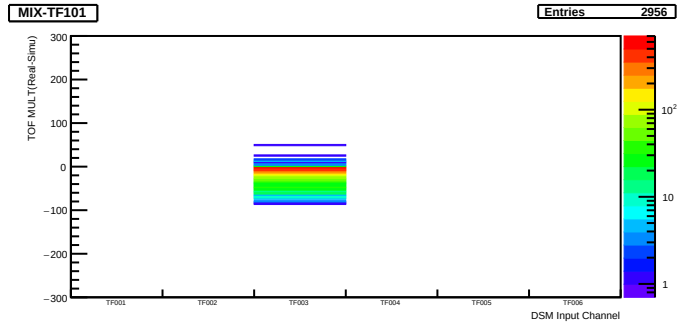

MIX-TF003
Entries 80136
TOF MULT
TOF tray

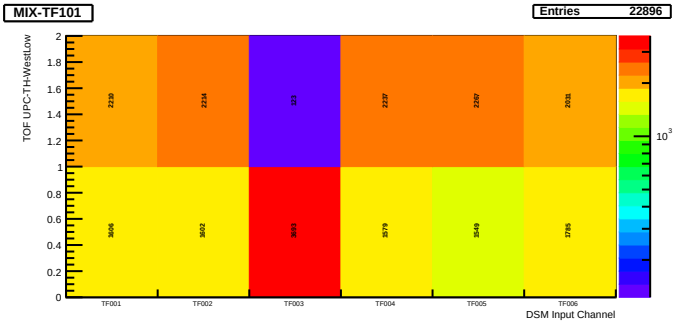

MIX-TF004
Entries 80136
TOF MULT
TOF tray

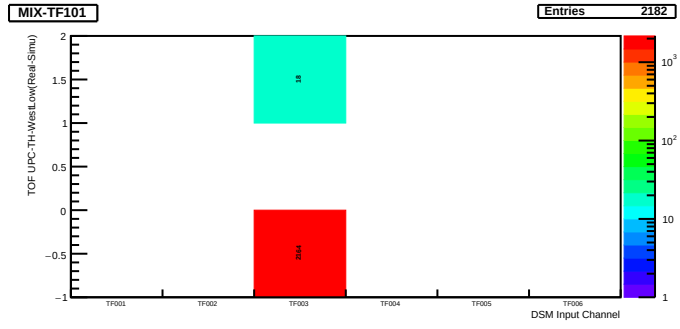

MIX-TF005
Entries 80136
TOF MULT
TOF tray

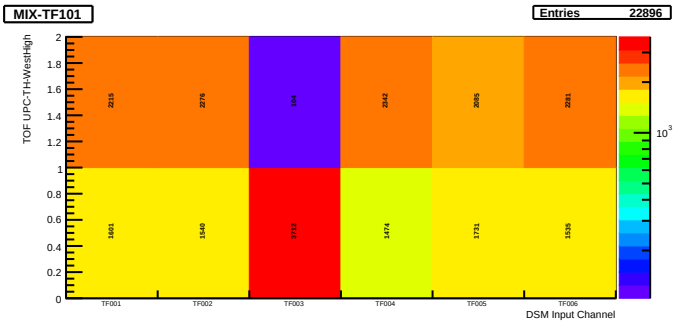

MIX-TF006
Entries 80136
TOF MULT
TOF tray

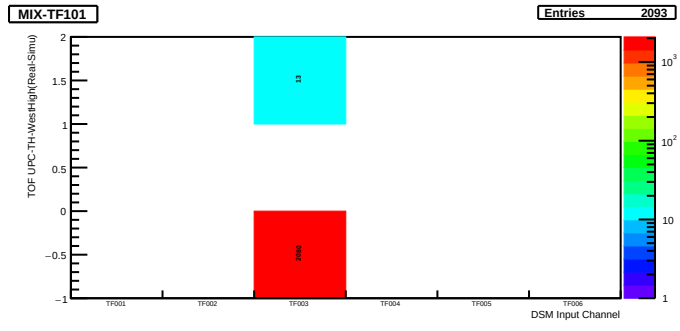

MIX-TF101
Entries 22896
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

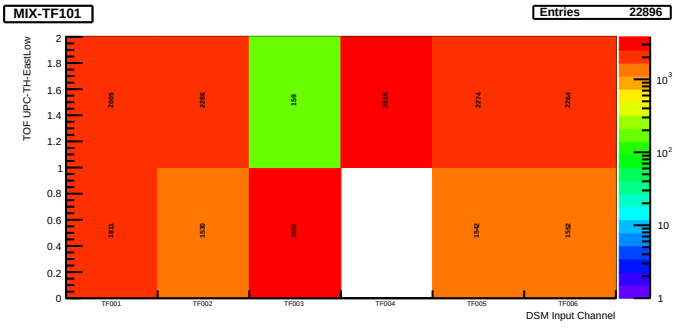

MIX-TF101
Entries 2956
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

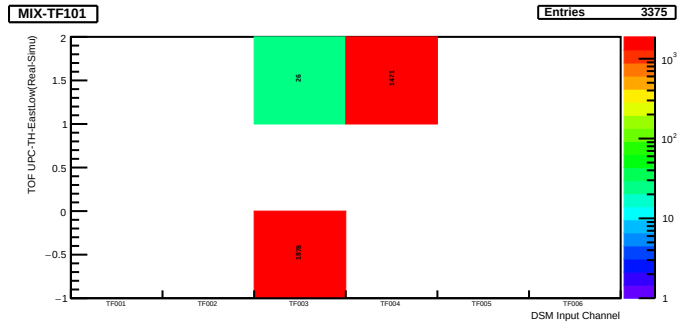

MIX-TF101
Entries 22896
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

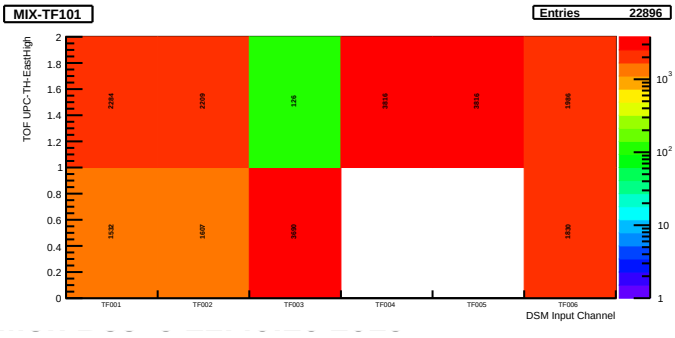

MIX-TF101
Entries 2182
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

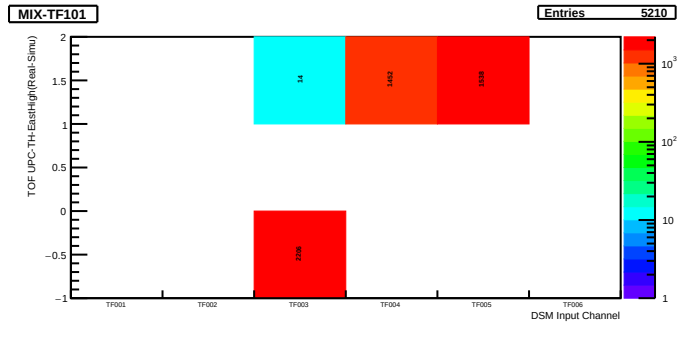

MIX-TF101
Entries 22896
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

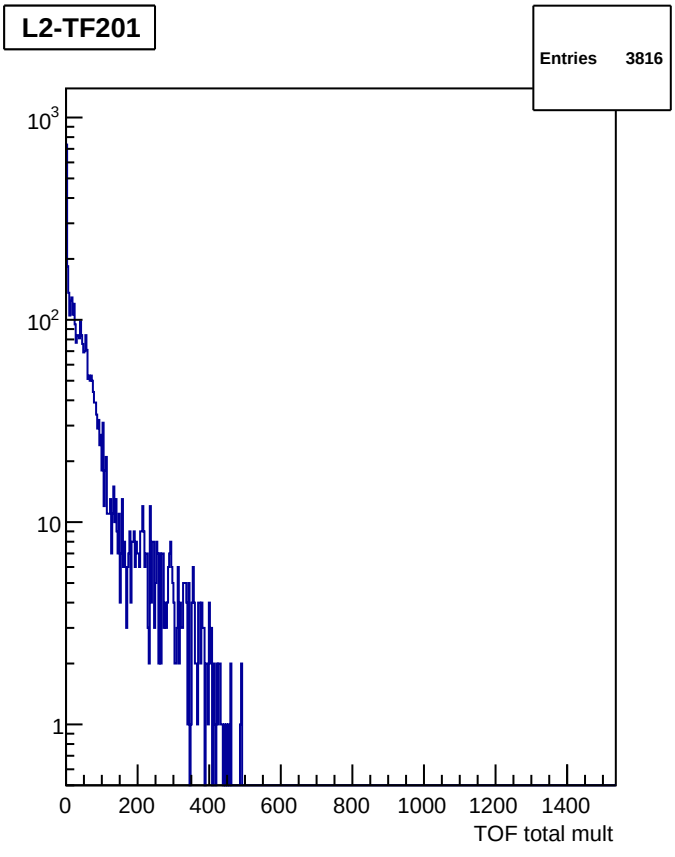

MIX-TF101
Entries 2093
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

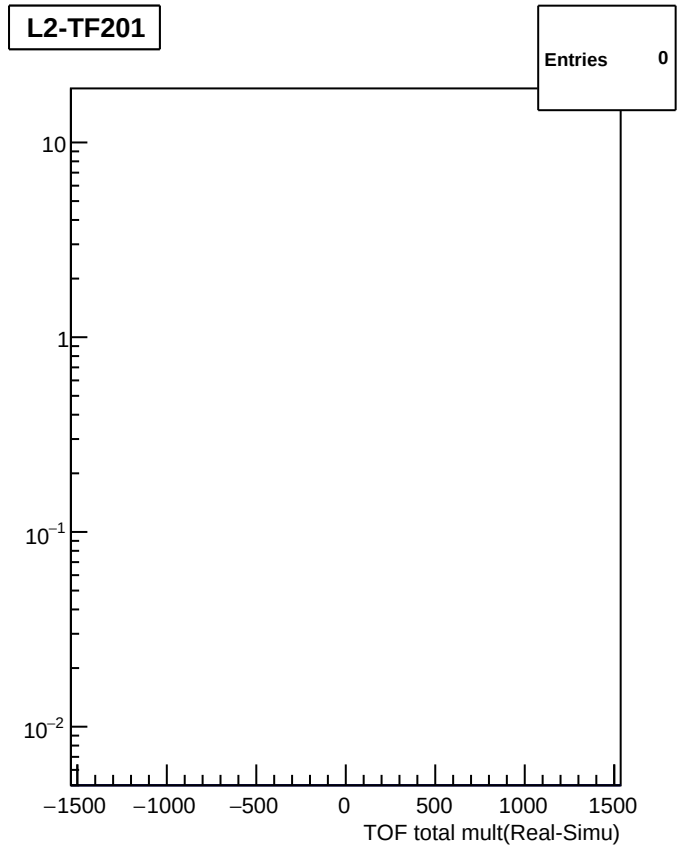

MIX-TF101
Entries 22896
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

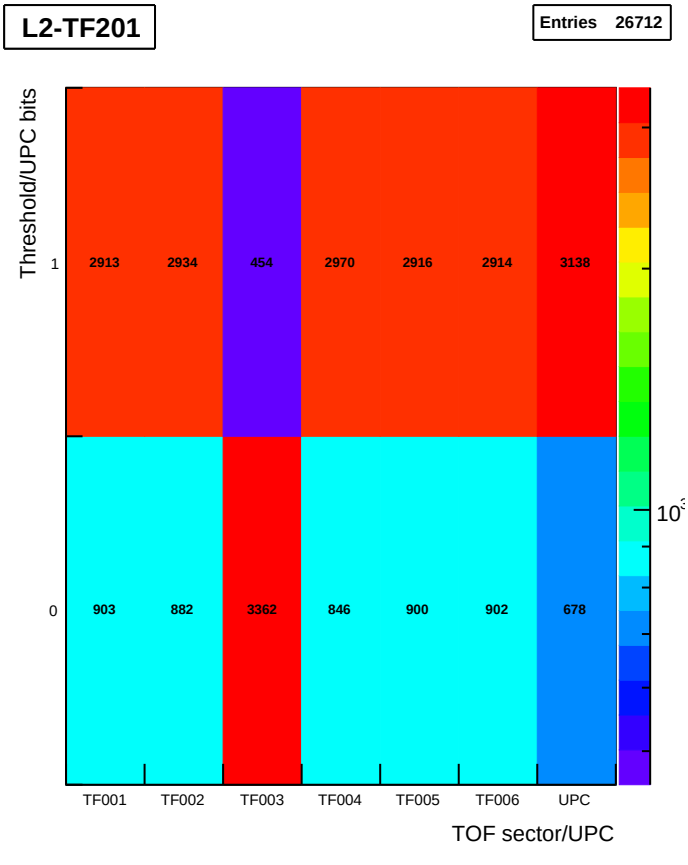

MIX-TF101
Entries 3375
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

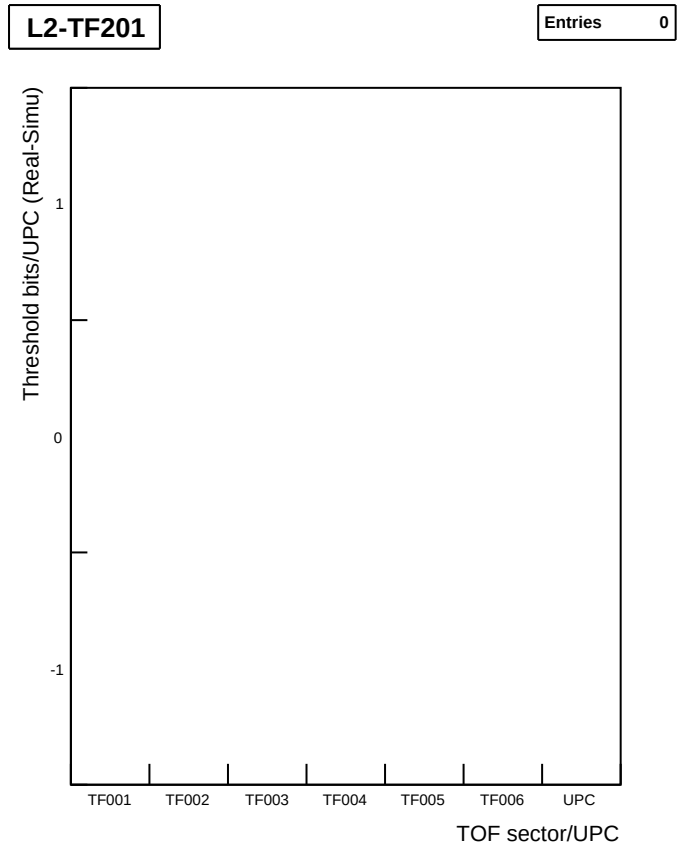

MIX-TF101
Entries 22896
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

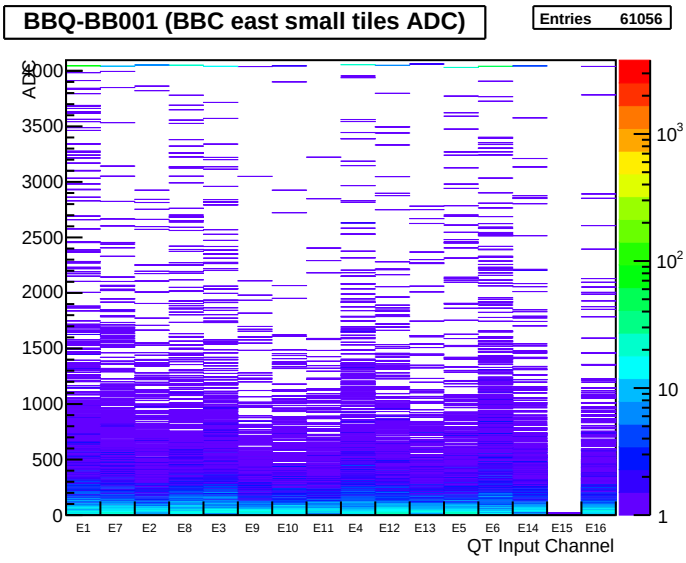

MIX-TF101
Entries 5210
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

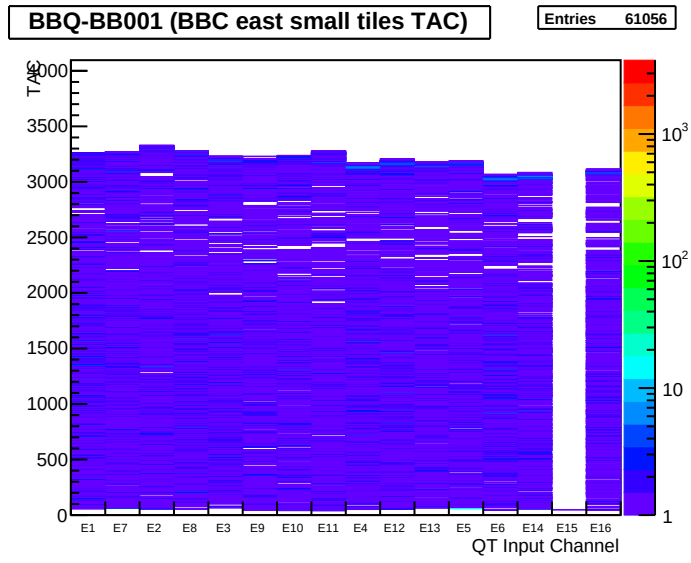

L2-TF201
Entries 3816
TOF total mult

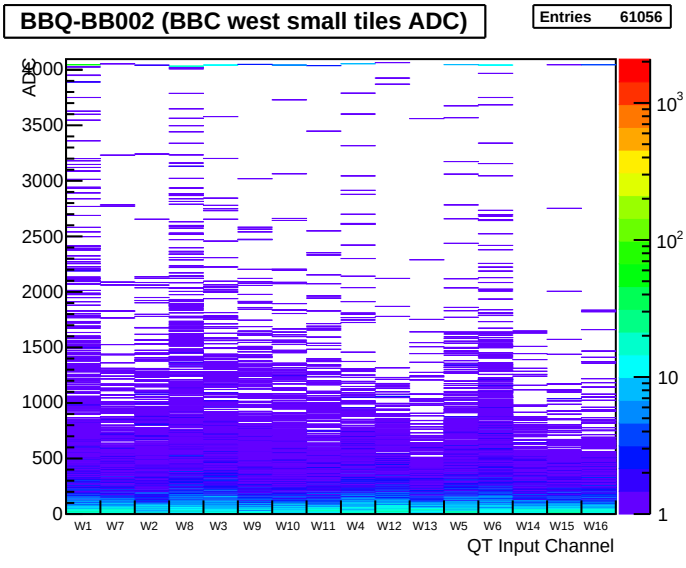

L2-TF201
Entries 0
TOF total mult(Real-Simu)

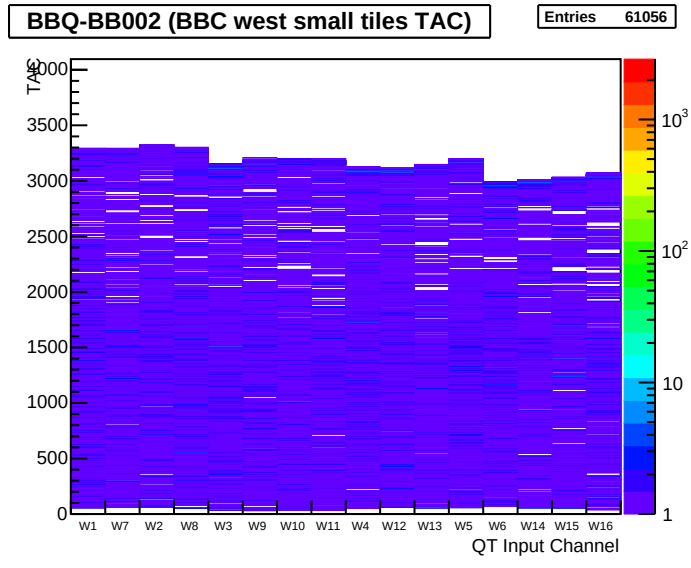

L2-TF201
Entries 26712
Threshold/UPC bits
2913 2934 454 2970 2916 2914 3138
903 882 3362 846 900 902 678
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

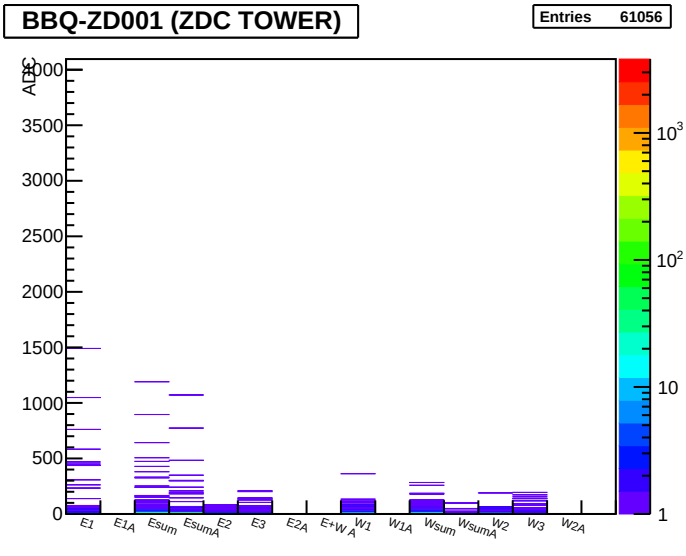

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

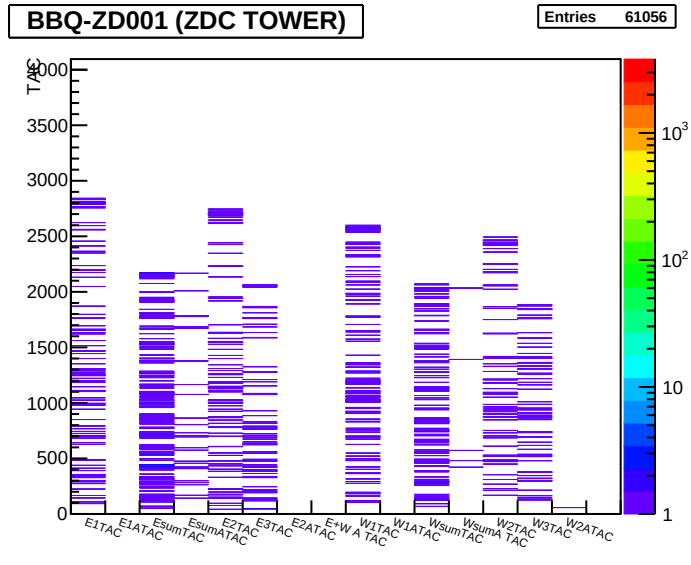

BBQ-BB001 (BBC east small tiles ADC)
Entries 61056
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

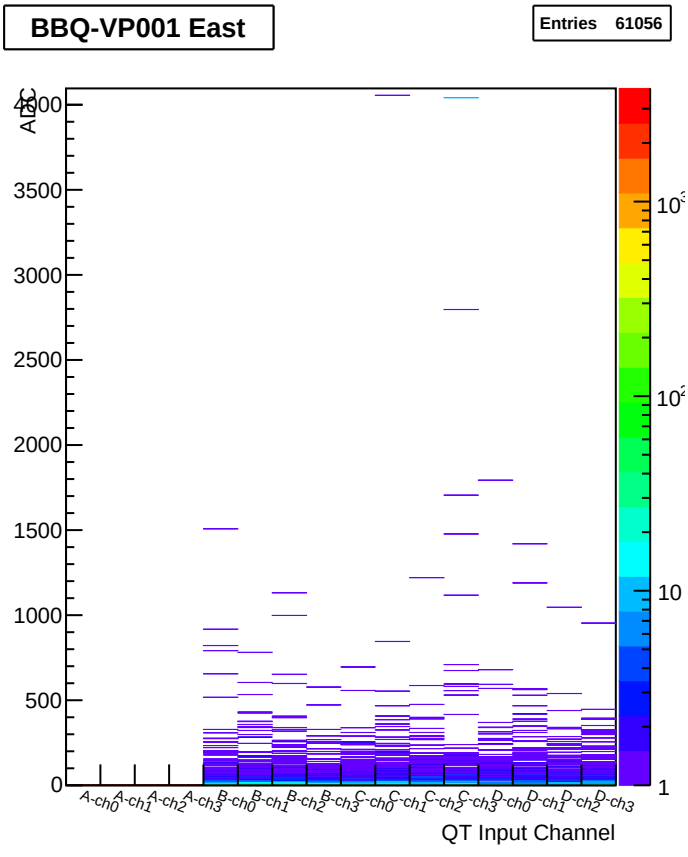

BBQ-BB001 (BBC east small tiles TAC)
Entries 61056
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

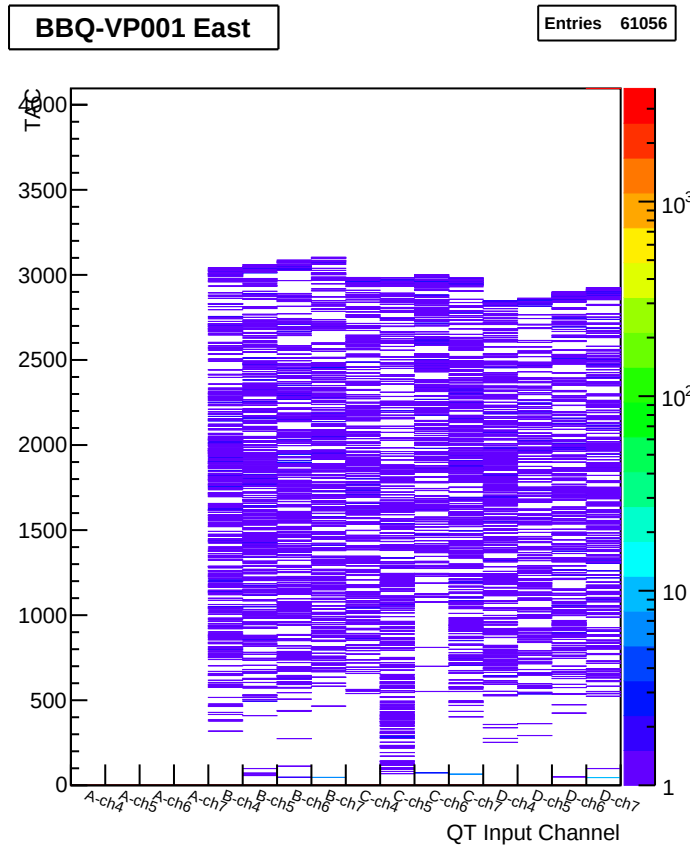

BBQ-BB002 (BBC west small tiles ADC)
Entries 61056
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

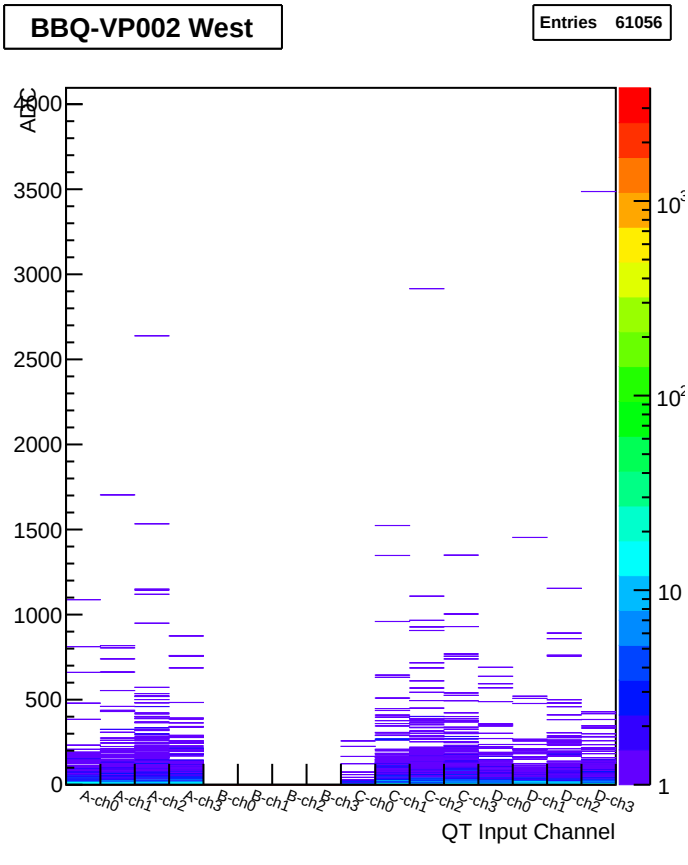

BBQ-BB002 (BBC west small tiles TAC)
Entries 61056
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

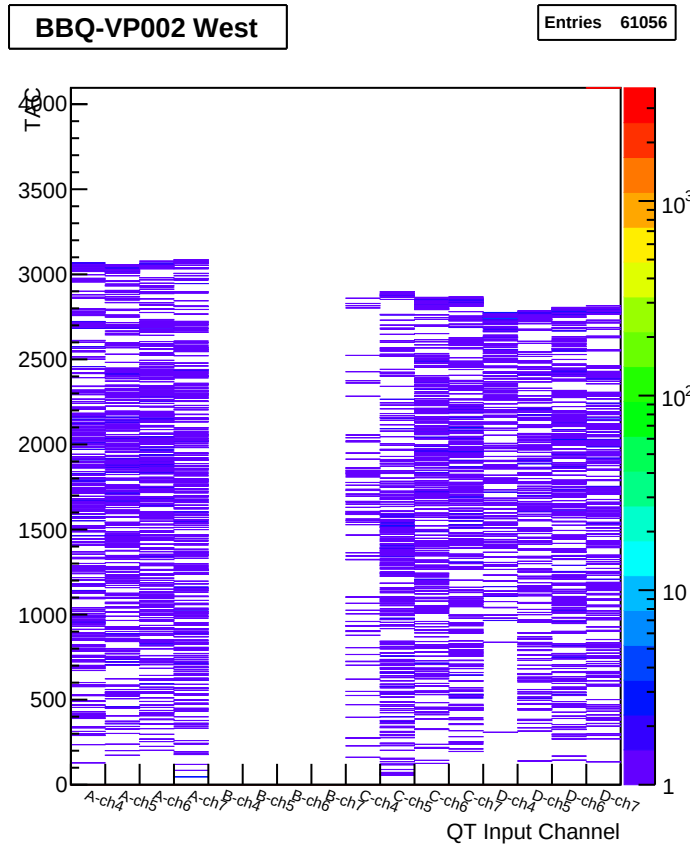

BBQ-ZD001 (ZDC TOWER)
Entries 61056
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

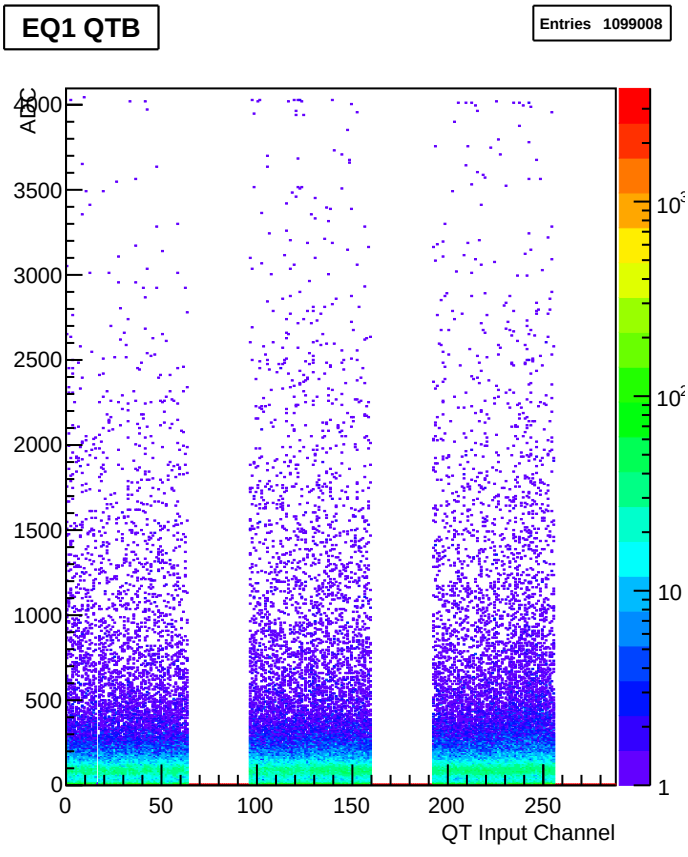

BBQ-ZD001 (ZDC TOWER)
Entries 61056
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

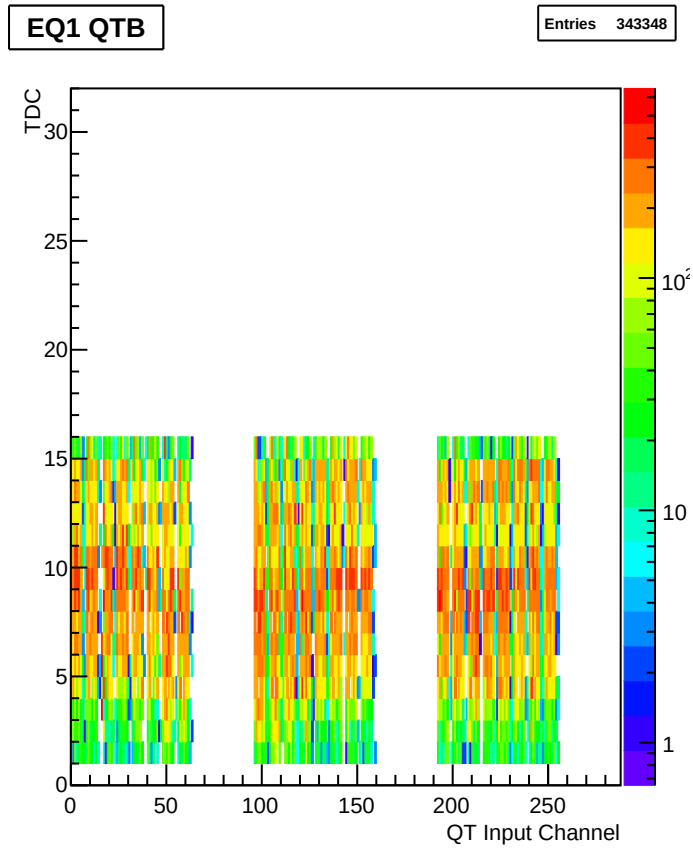

BBQ-VP001 East
Entries 61056
ADC
QT Input Channel

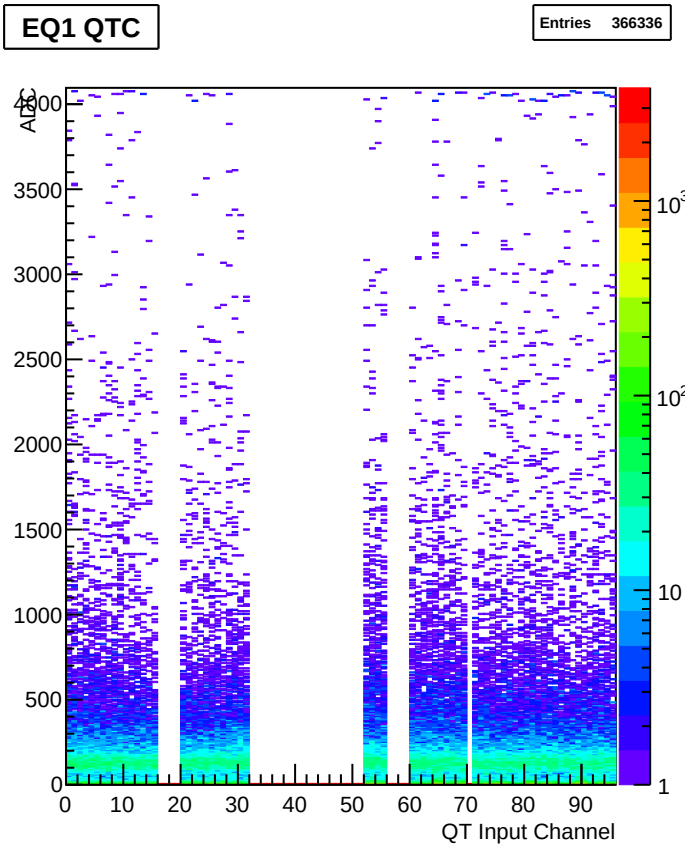

BBQ-VP001 East
Entries 61056
TADC
QT Input Channel

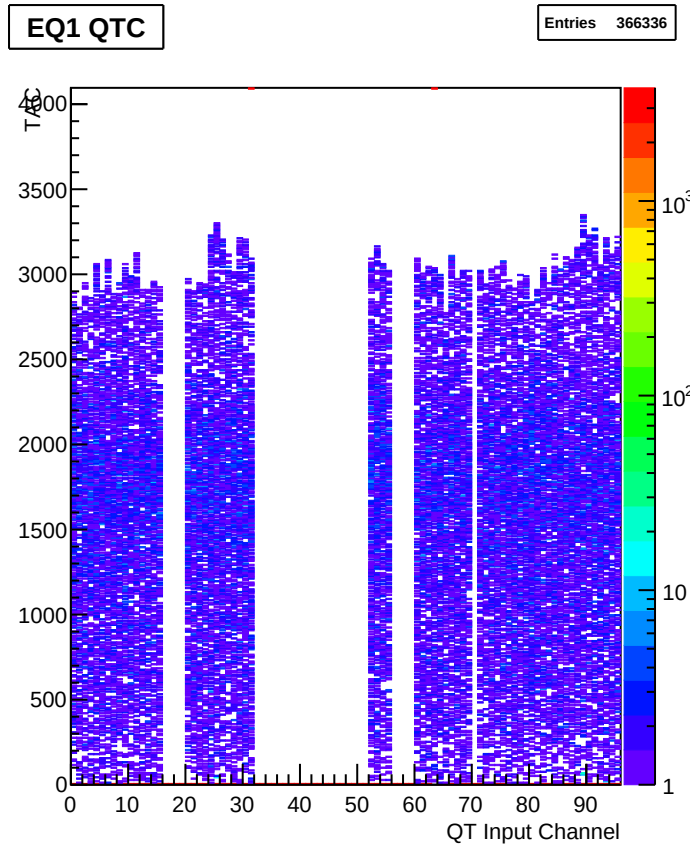

BBQ-VP002 West
Entries 61056
ADC
QT Input Channel

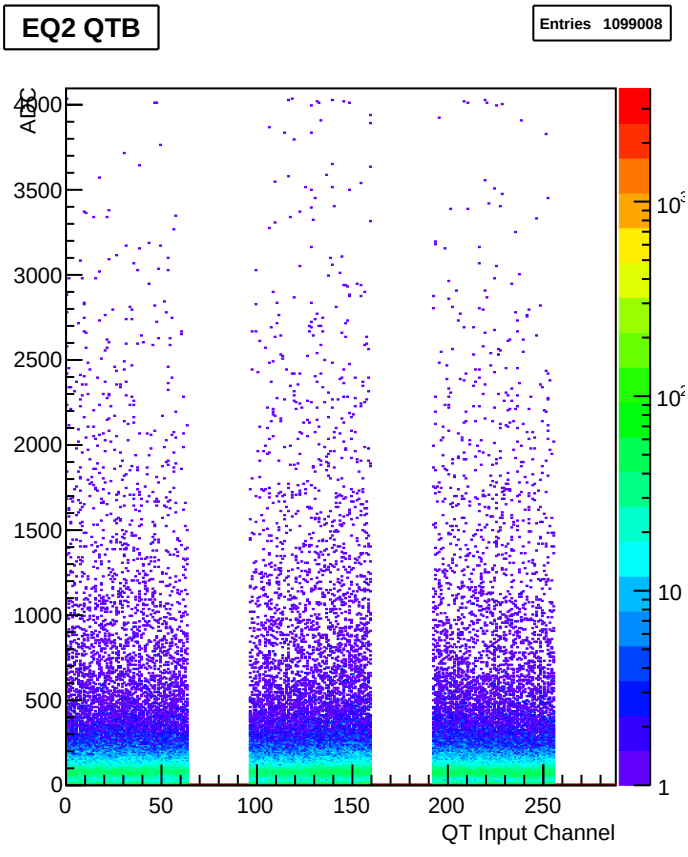

BBQ-VP002 West
Entries 61056
TADC
QT Input Channel

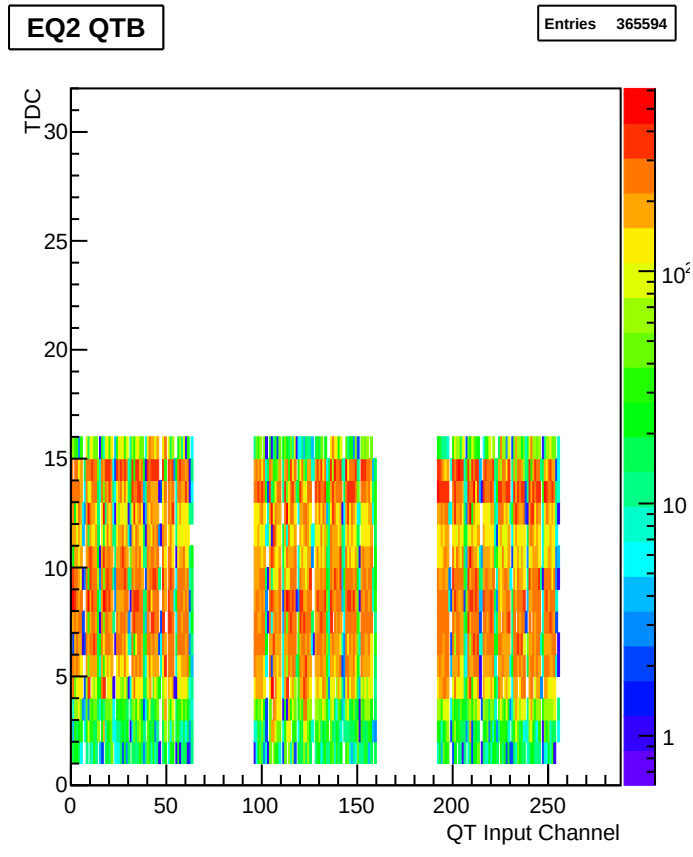

EQ1 QTB
Entries 1099008
ADC
QT Input Channel

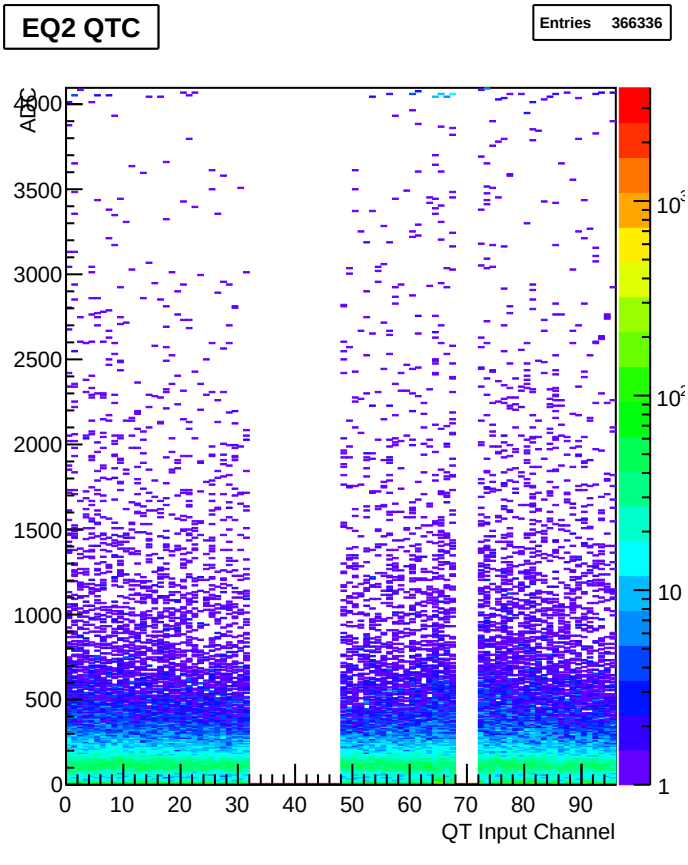

EQ1 QTB
Entries 343348
TDC
QT Input Channel

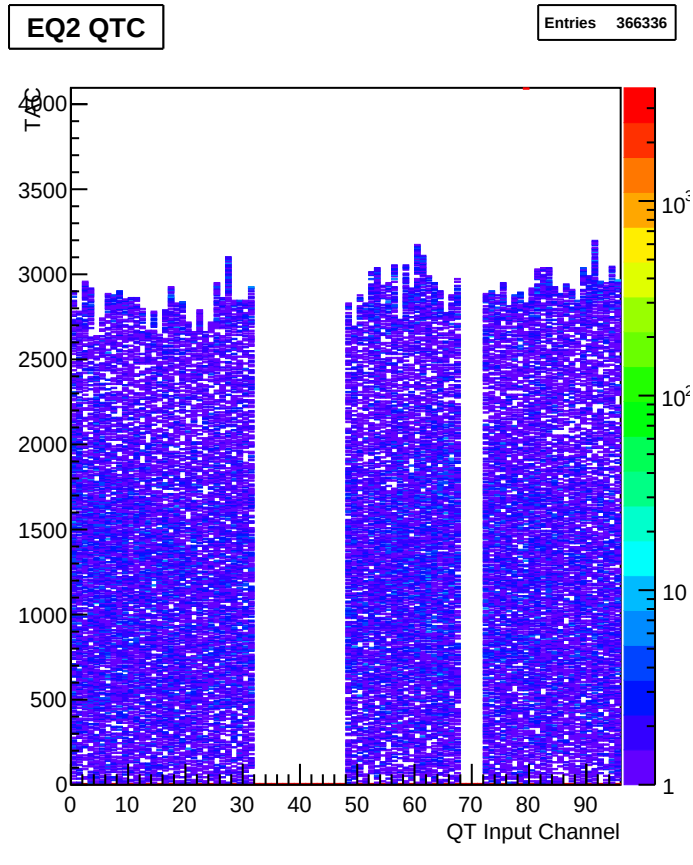

EQ1 QTC
Entries 366336
ADC
QT Input Channel

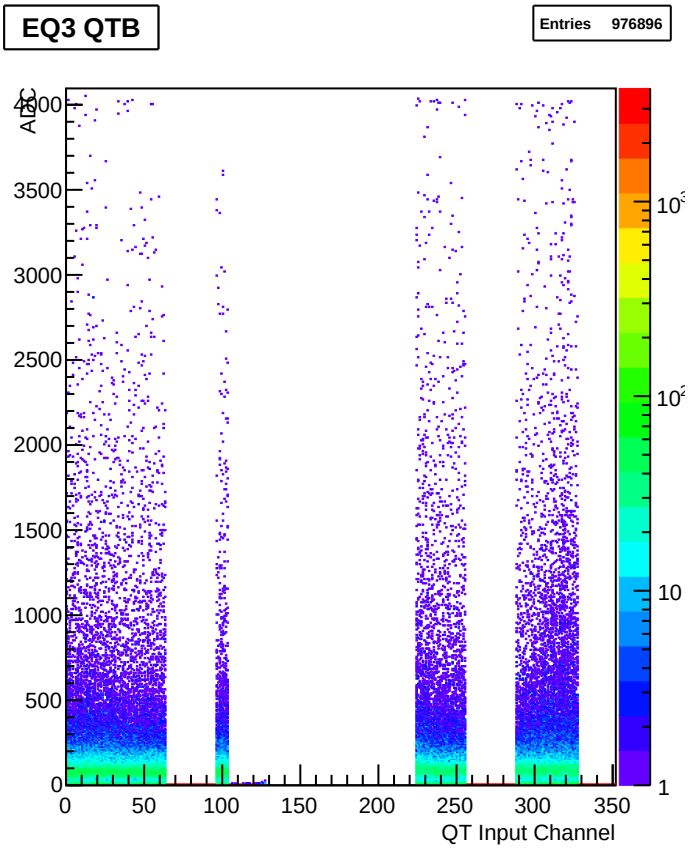

EQ1 QTC
Entries 366336
TADC
QT Input Channel

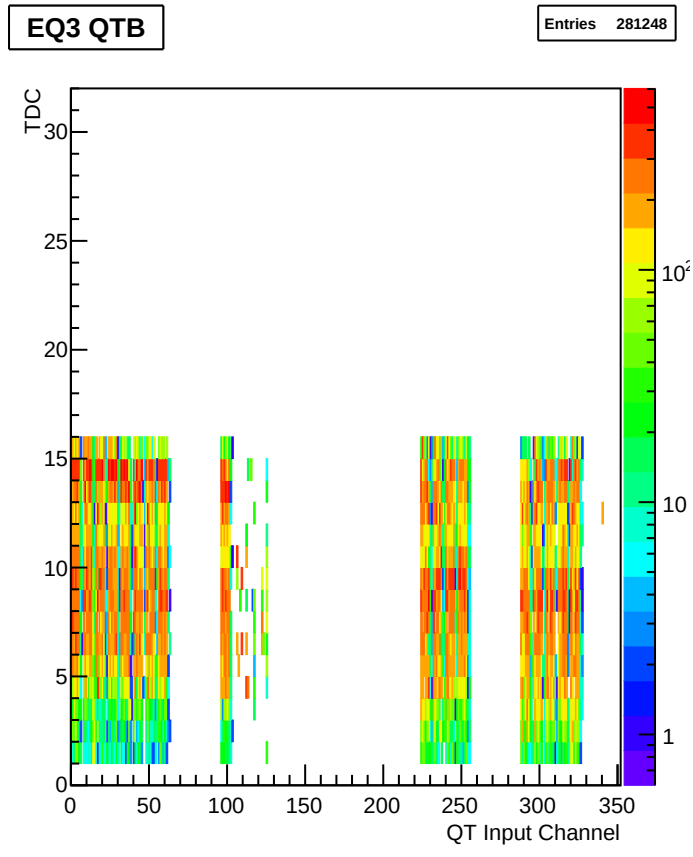

EQ2 QTB
Entries 1099008
ADC
QT Input Channel

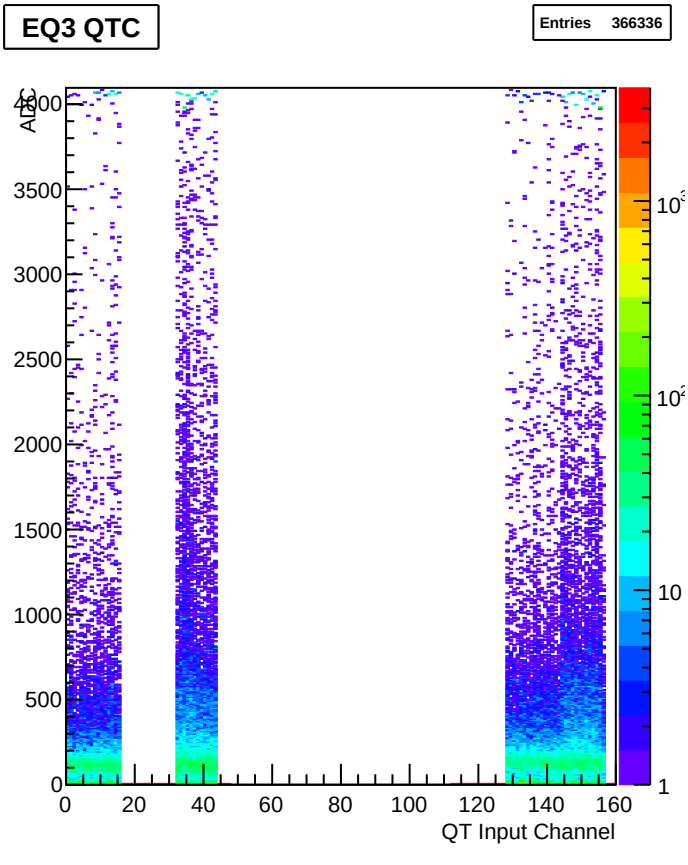

EQ2 QTB
Entries 365594
TDC
QT Input Channel

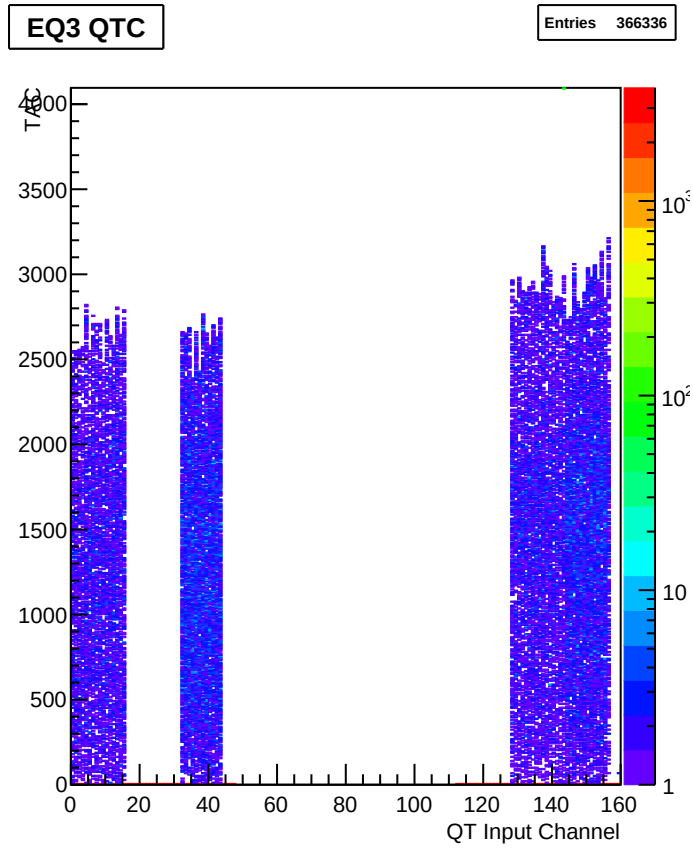

EQ2 QTC
Entries 366336
ADC
QT Input Channel

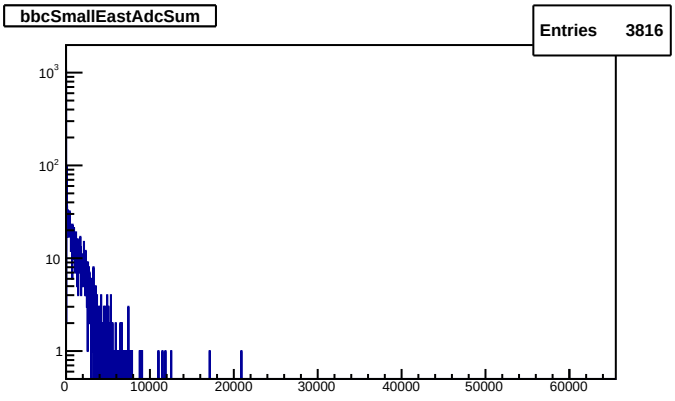

EQ2 QTC
Entries 366336
TADC
QT Input Channel

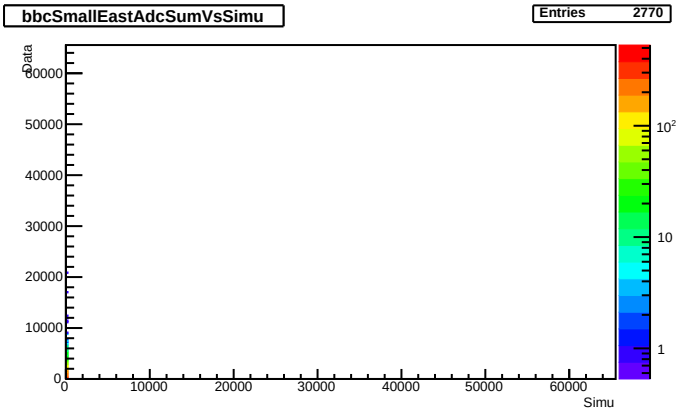

EQ3 QTB
Entries 976896
ADC
QT Input Channel

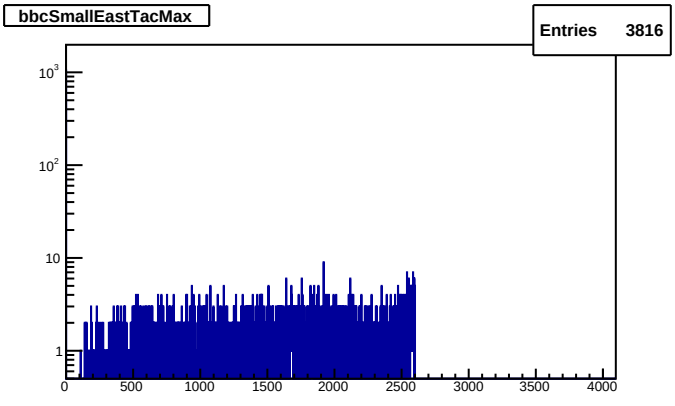

EQ3 QTB
Entries 281248
TDC
QT Input Channel

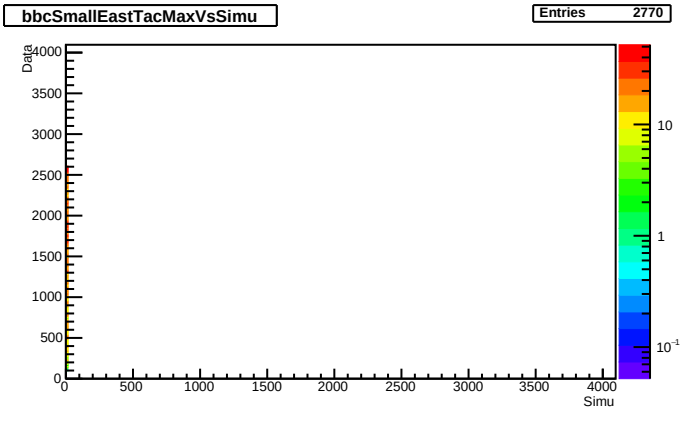

EQ3 QTC
Entries 366336
ADC
QT Input Channel

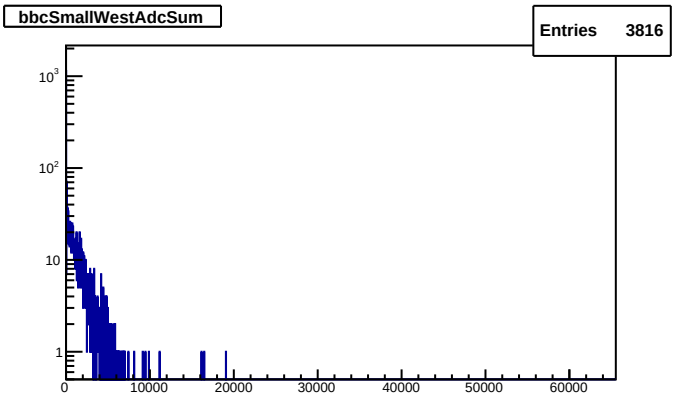

EQ3 QTC
Entries 366336
TADC
QT Input Channel

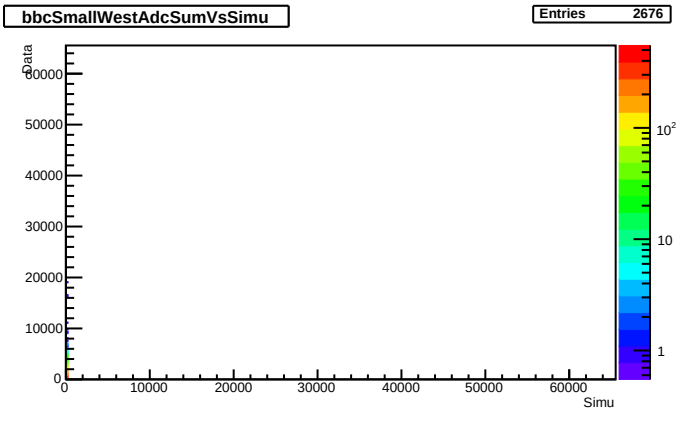

bbcSmallEastAdcSum
Entries 3816

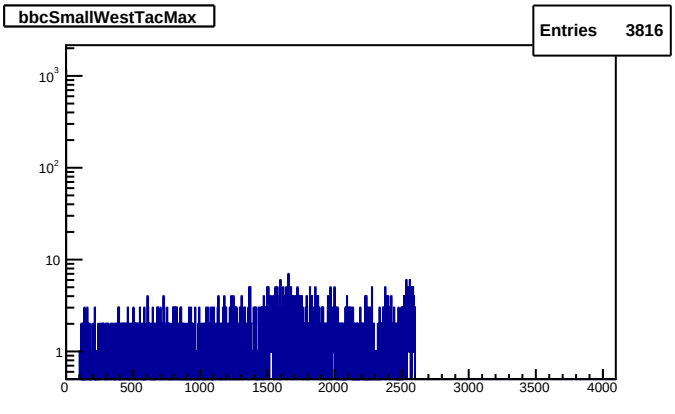

bbcSmallEastAdcSumVsSimu
Entries 2770
Data
Simu

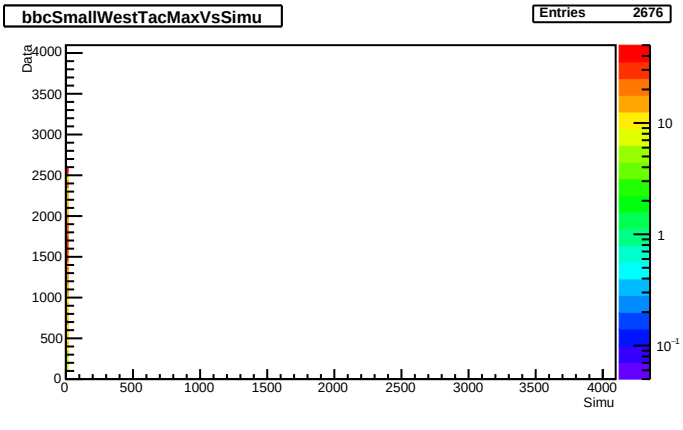

bbcSmallEastTacMax
Entries 3816

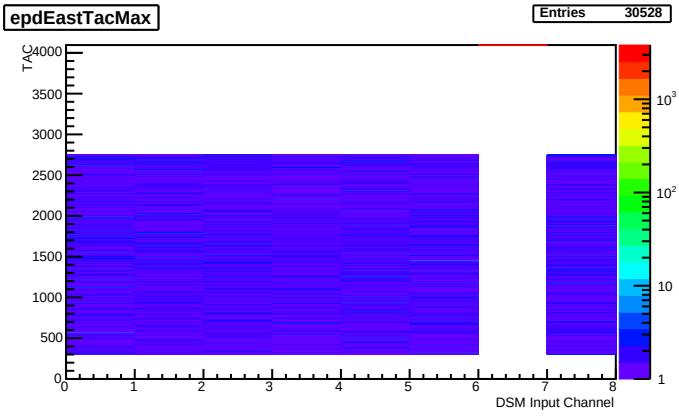

bbcSmallEastTacMaxVsSimu
Entries 2770
Data
Simu

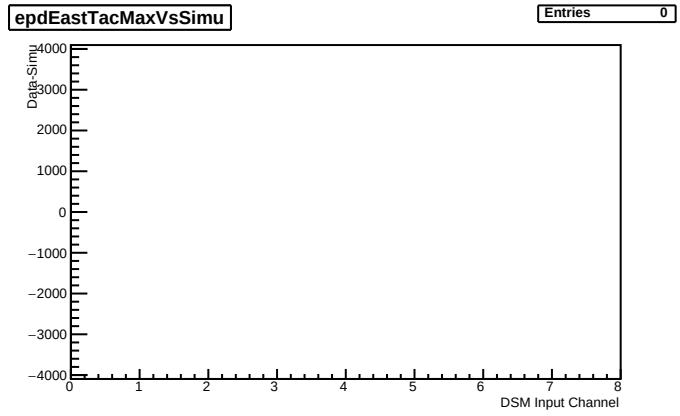

bbcSmallWestAdcSum
Entries 3816

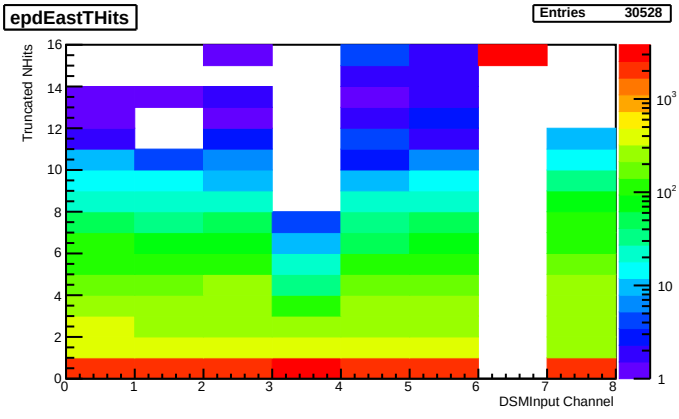

bbcSmallWestAdcSumVsSimu
Entries 2676
Data
Simu

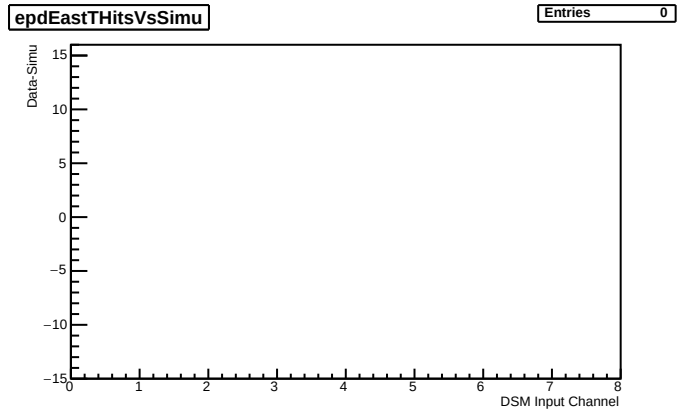

bbcSmallWestTacMax
Entries 3816

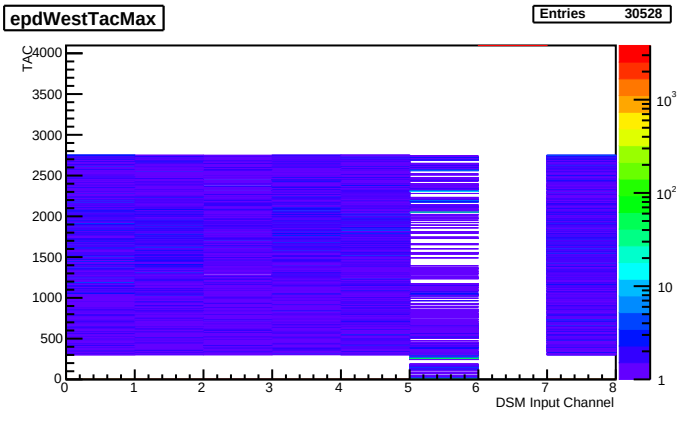

bbcSmallWestTacMaxVsSimu
Entries 2676
Data
Simu

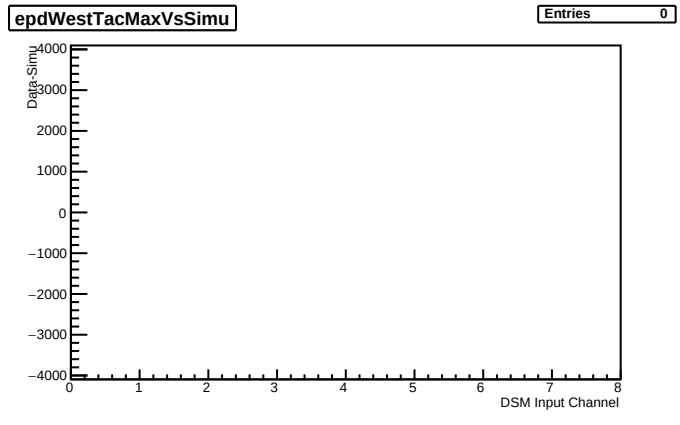

epdEastTacMax
Entries 30528
TAC
DSM Input Channel

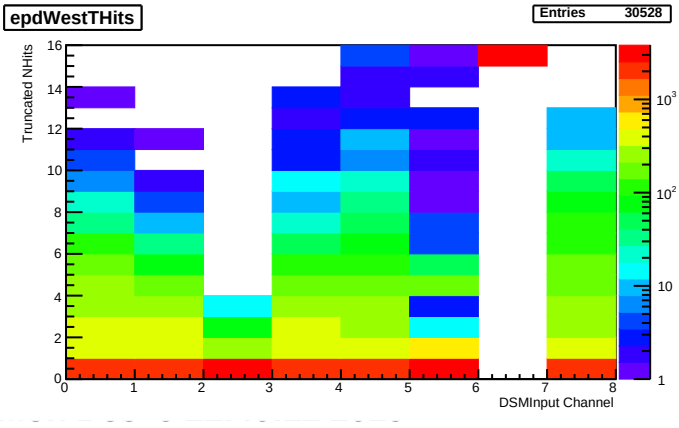

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

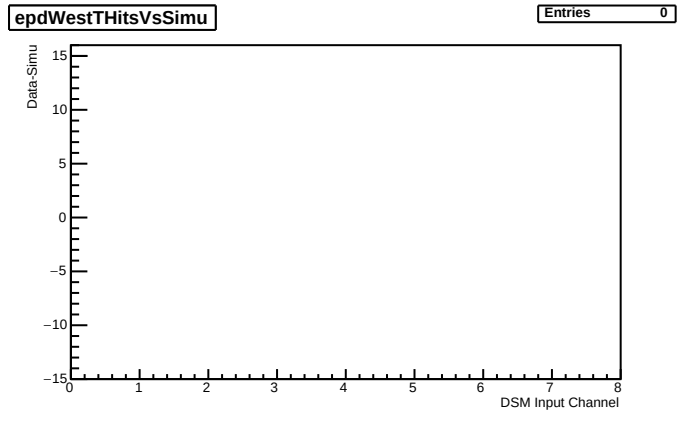

epdEastTHits
Entries 30528
Truncated NHits
DSMInput Channel

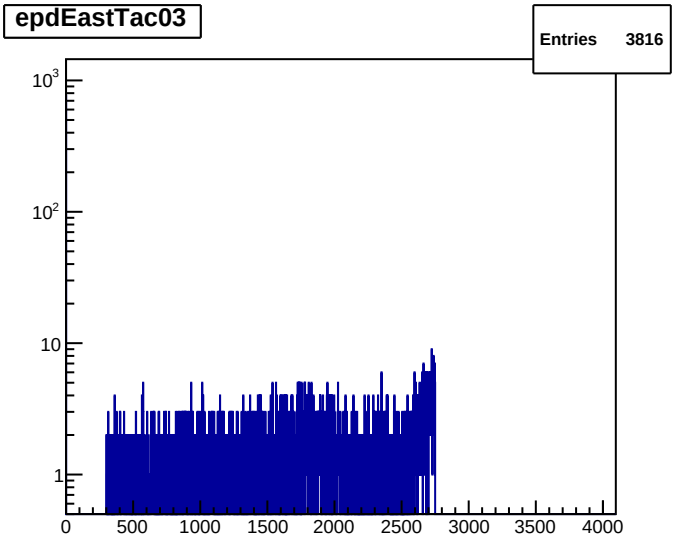

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

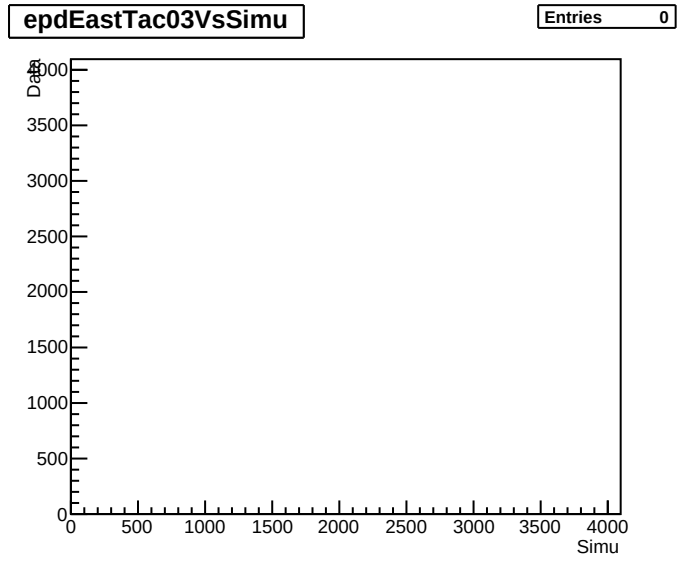

epdWestTacMax
Entries 30528
TAC
DSM Input Channel

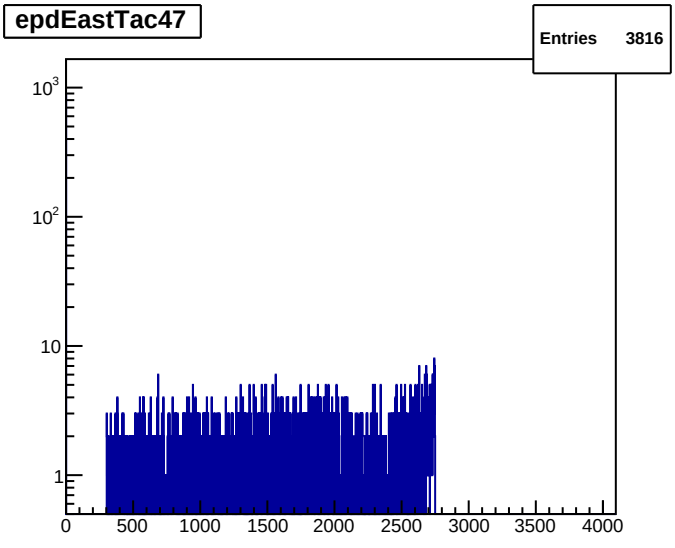

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

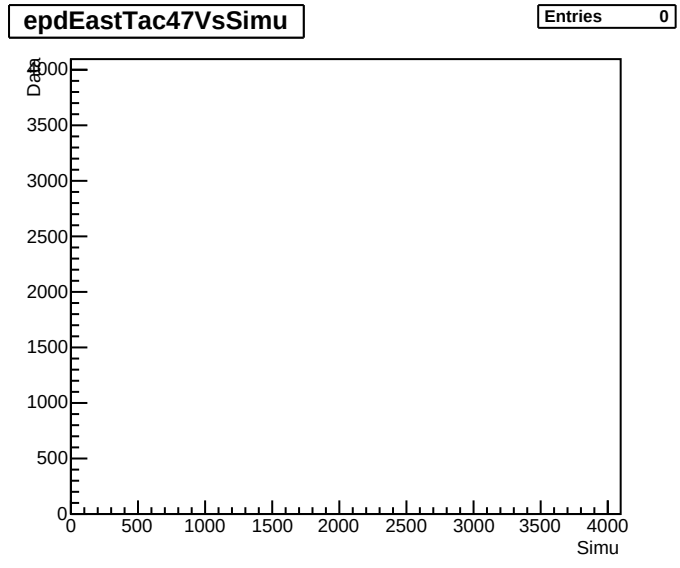

epdWestTHits
Entries 30528
Truncated NHits
DSMInput Channel

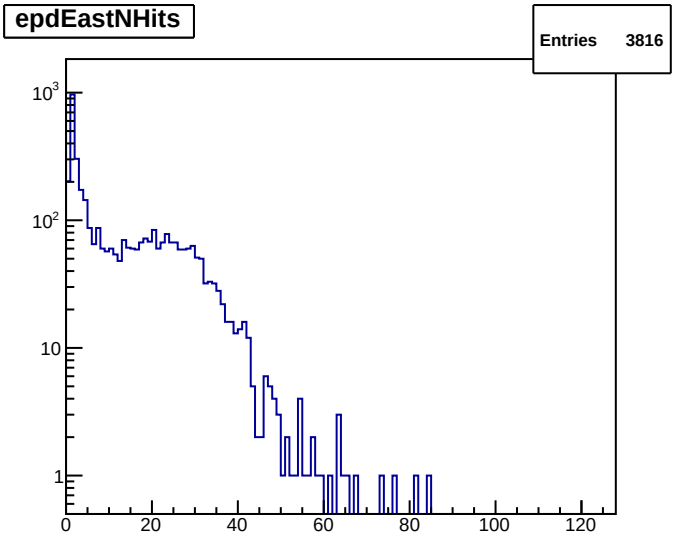

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

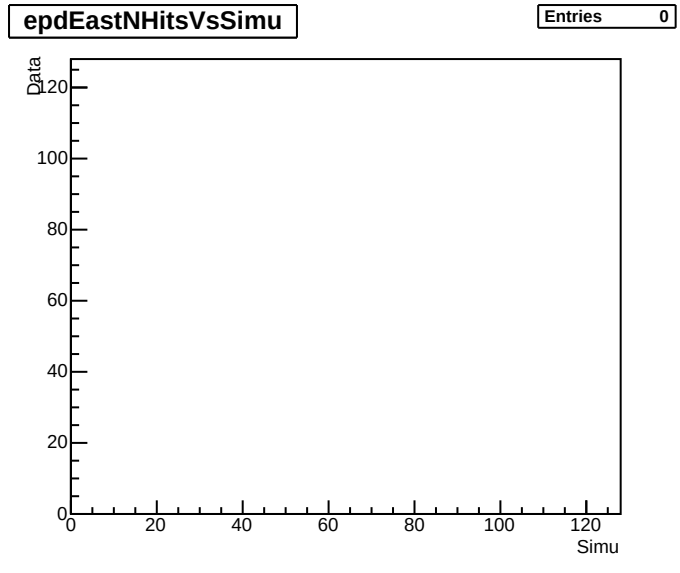

epdEastTac03
Entries 3816
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

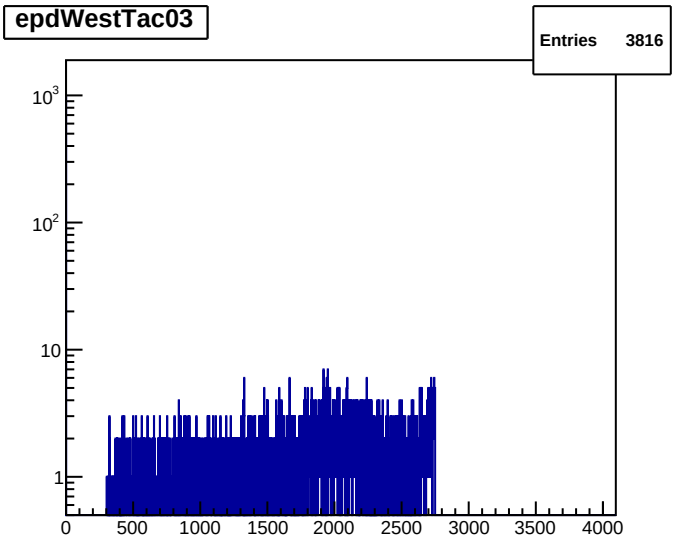

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

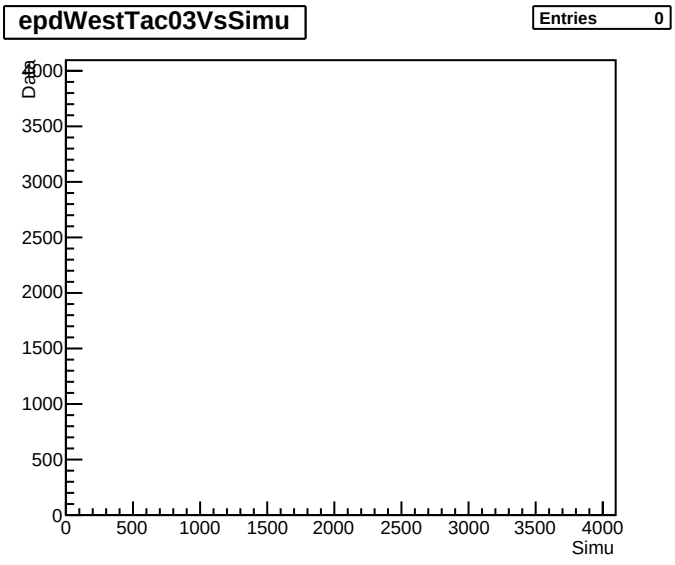

epdEastTac47
Entries 3816
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

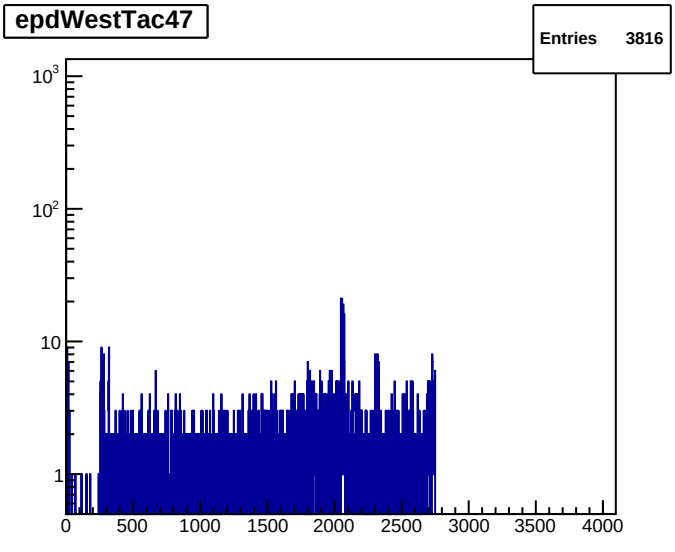

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

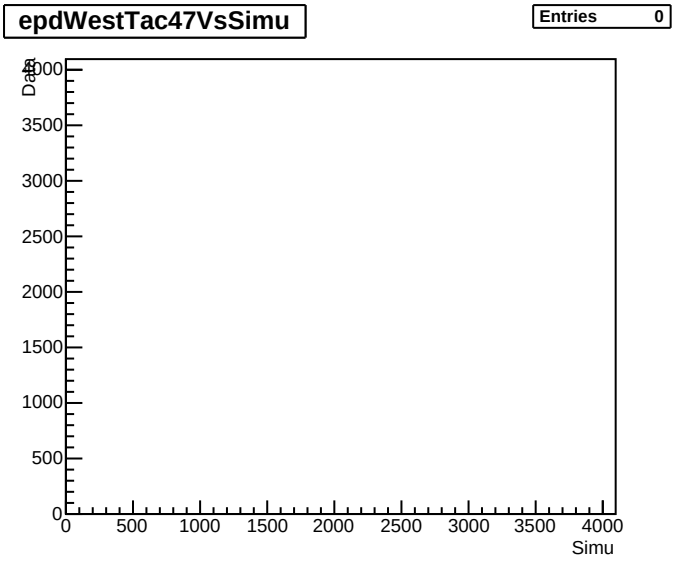

epdEastNHits
Entries 3816
10^3
10^2
10
1
0 20 40 60 80 100 120

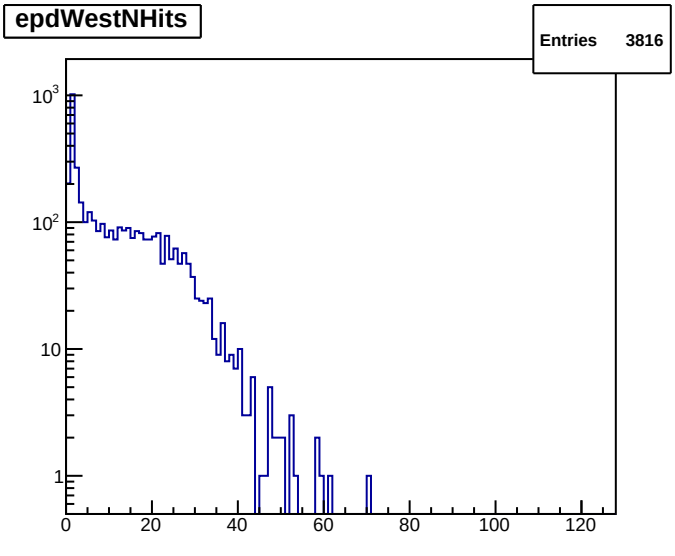

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

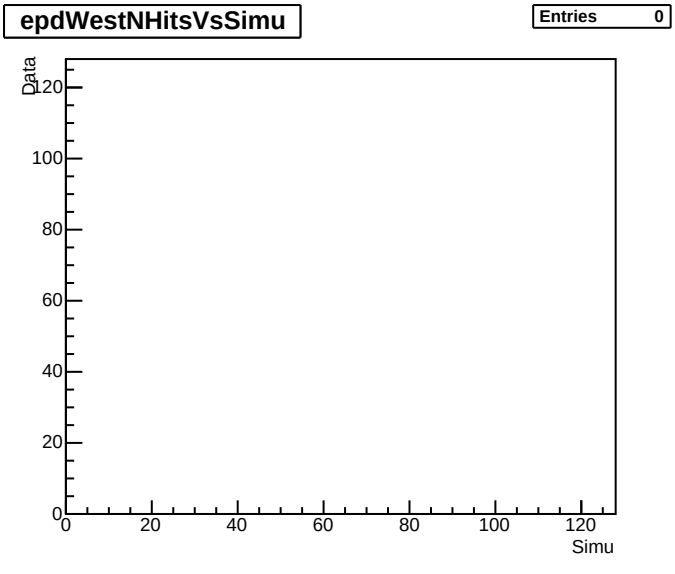

epdWestTac03
Entries 3816

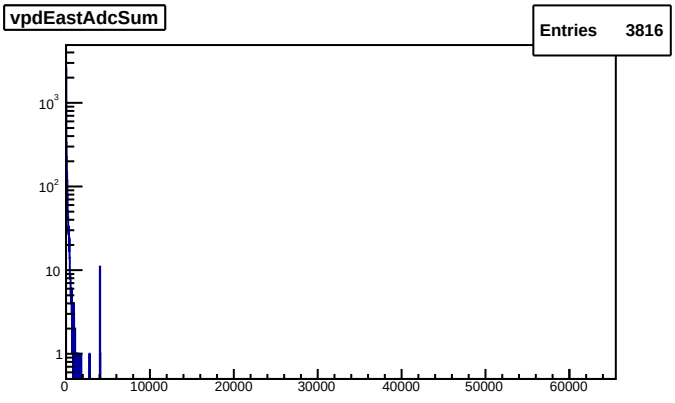

epdWestTac03VsSimu
Entries 0
Data
Simu

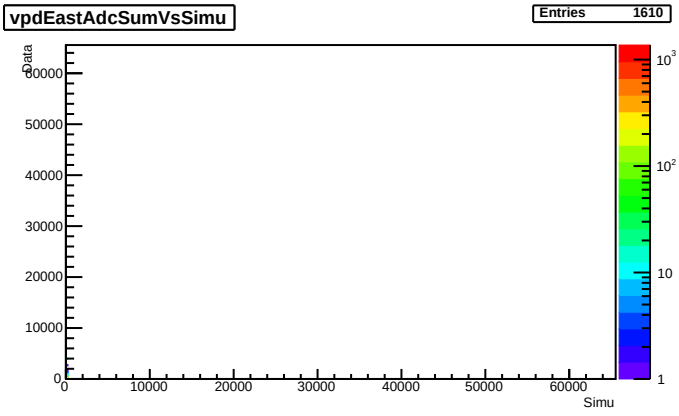

epdWestTac47
Entries 3816

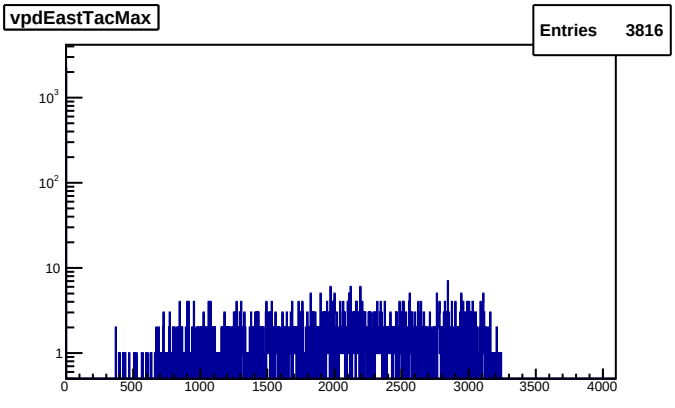

epdWestTac47VsSimu
Entries 0
Data
Simu

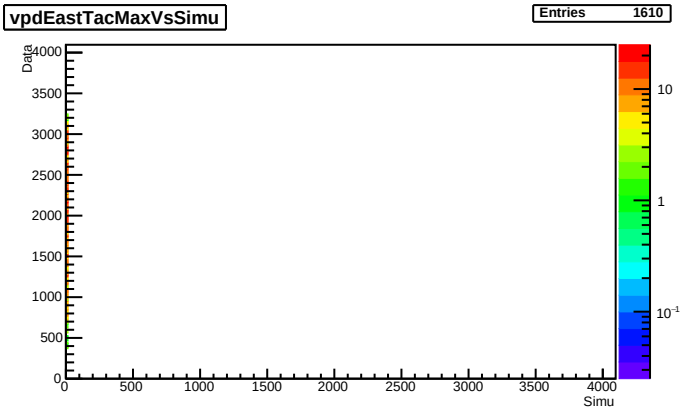

epdWestNHits
Entries 3816

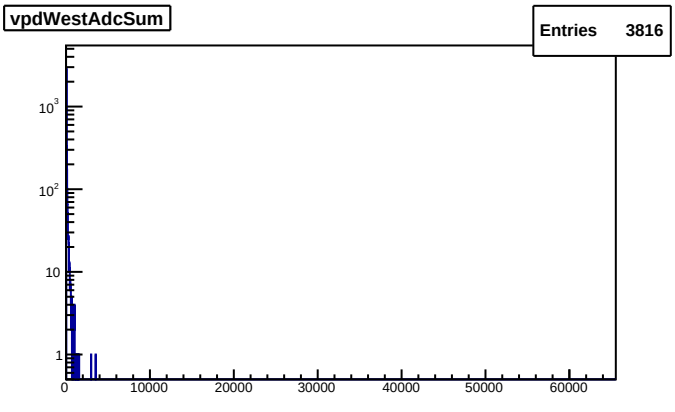

epdWestNHitsVsSimu
Entries 0
Data
Simu

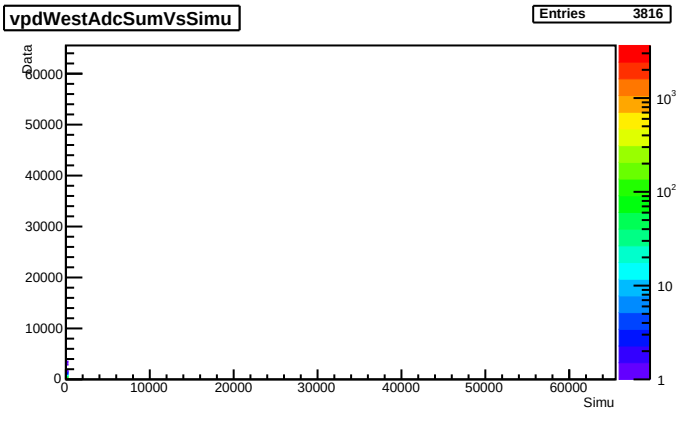

vpdEastAdcSum
Entries 3816

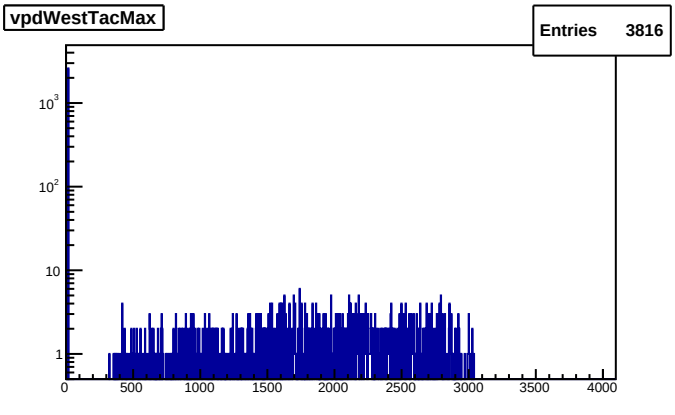

vpdEastAdcSumVsSimu
Entries 1610
Data
Simu

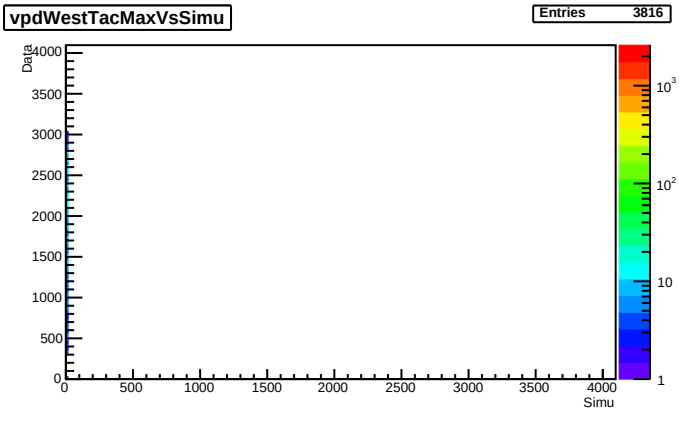

vpdEastTacMax
Entries 3816

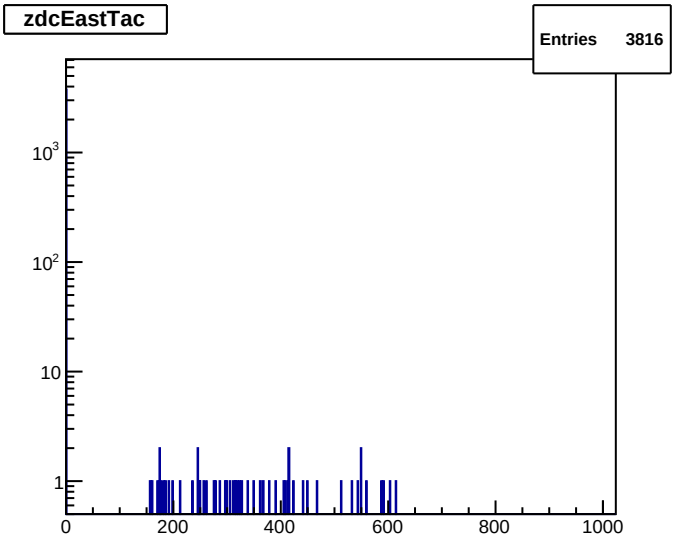

vpdEastTacMaxVsSimu
Entries 1610
Data
Simu

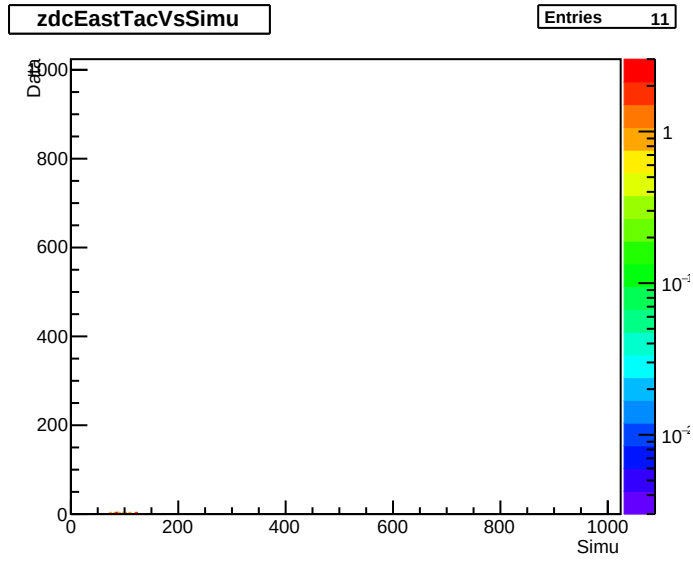

vpdWestAdcSum
Entries 3816

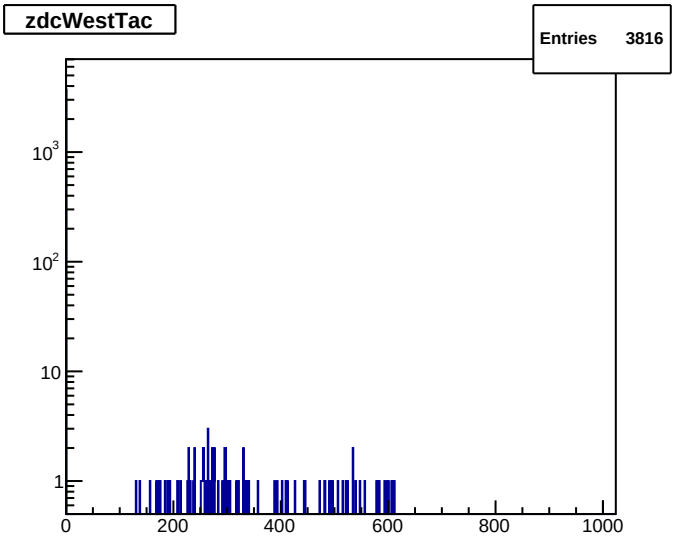

vpdWestAdcSumVsSimu
Entries 3816
Data
Simu

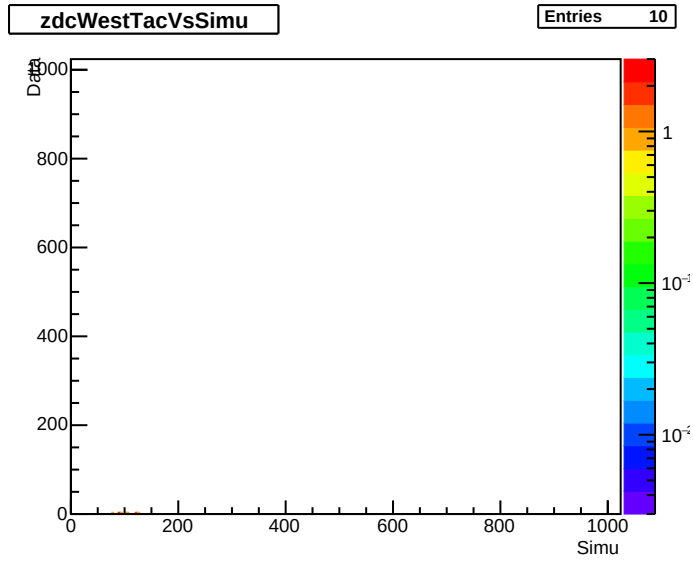

vpdWestTacMax
Entries 3816

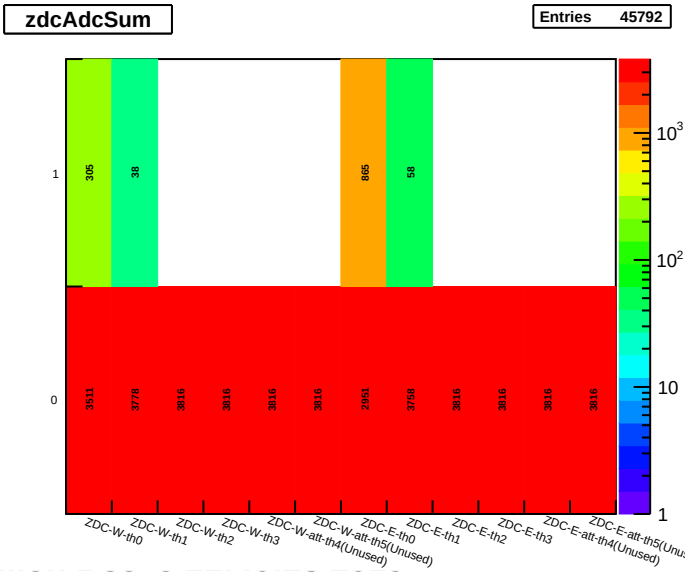

vpdWestTacMaxVsSimu
Entries 3816
Data
Simu

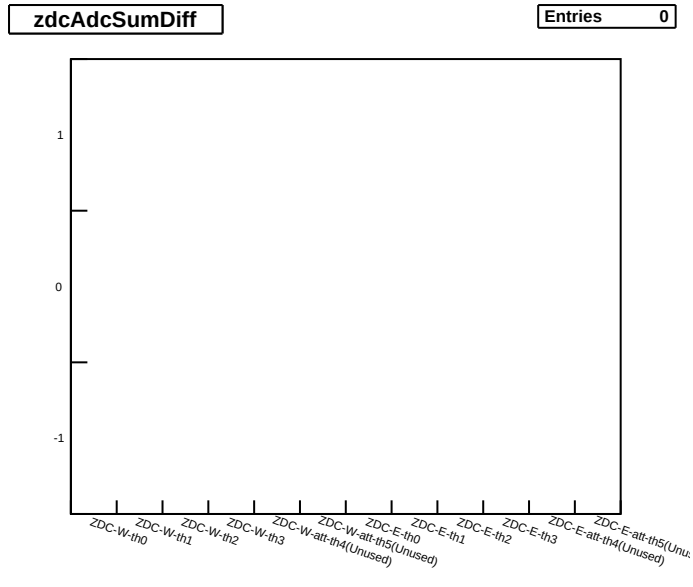

zdcEastTac
Entries 3816

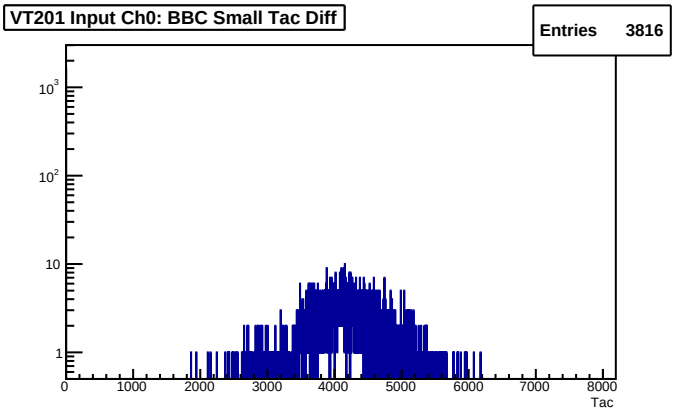

zdcEastTacVsSimu
Entries 11
Data
Simu

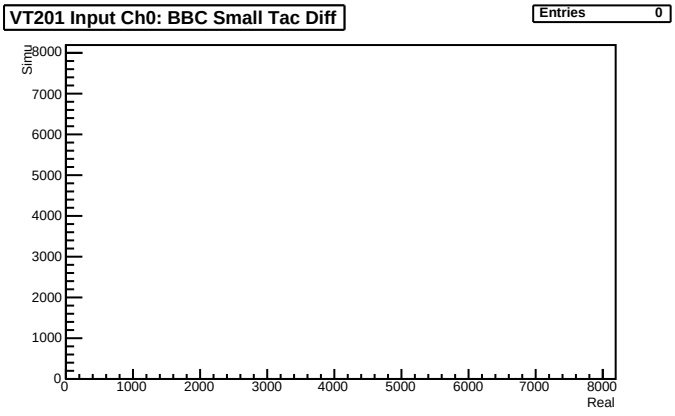

zdcWestTac
Entries 3816

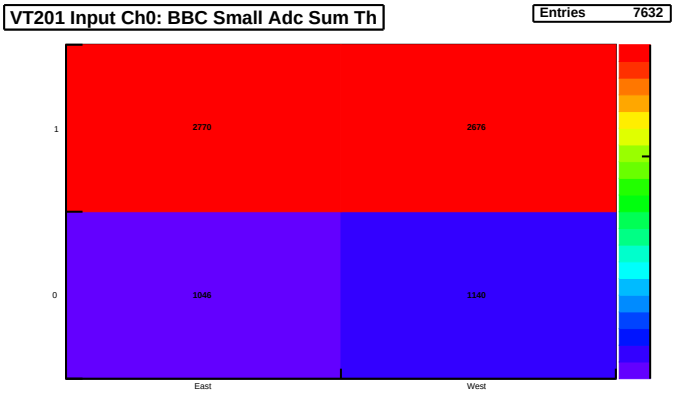

zdcWestTacVsSimu
Entries 10
Data
Simu

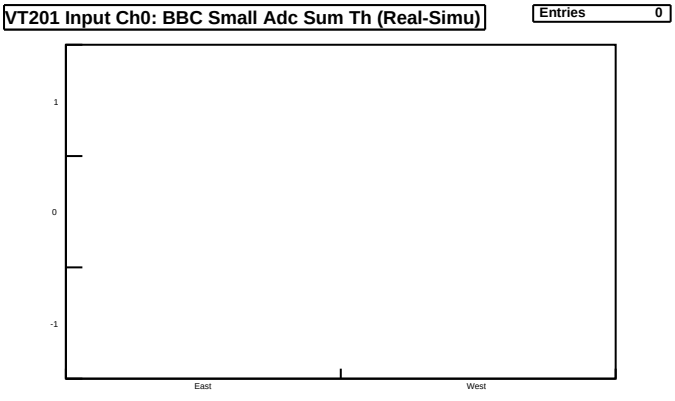

zdcAdcSum
Entries 45792
305
38
865
58
3511
3778
3816
3816
3816
3816
2951
3758
3816
3816
3816
3816
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

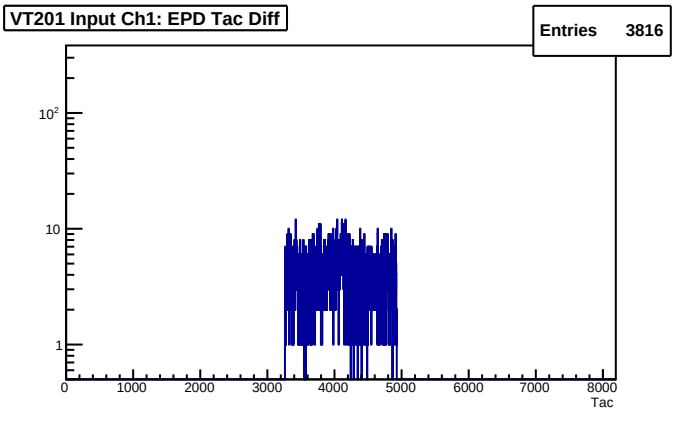

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

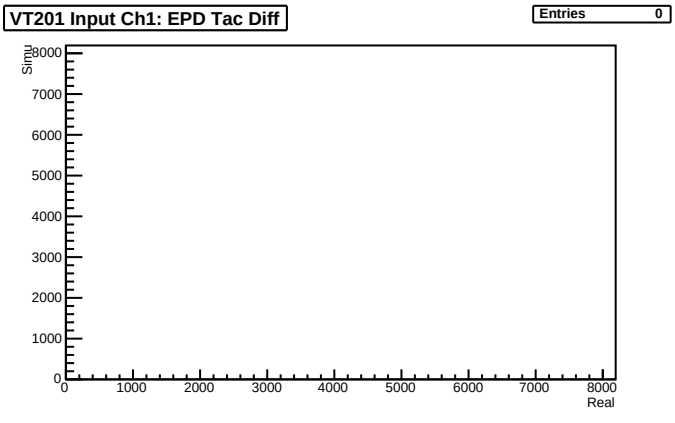

VT201 Input Ch0: BBC Small Tac Diff
Entries 3816
Tac

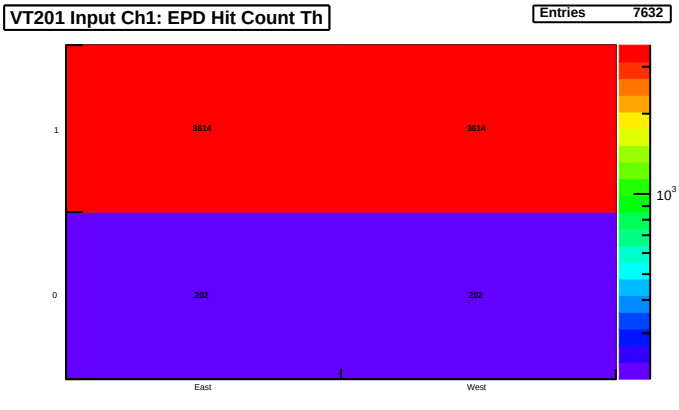

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

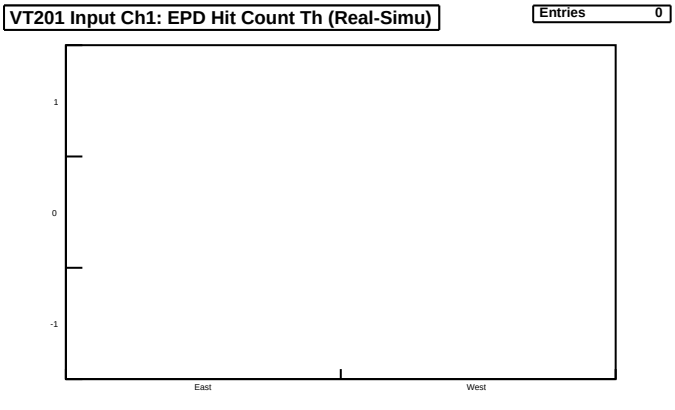

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 7632
2770
2676
1046
1140
East
West

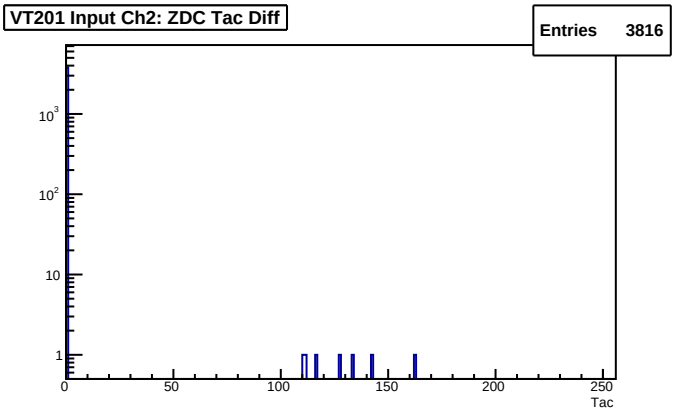

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

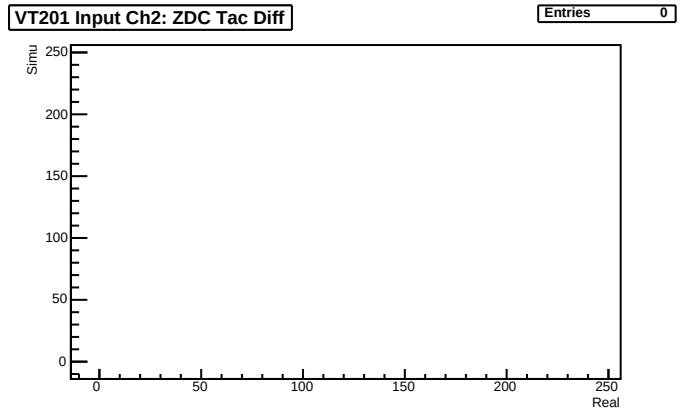

VT201 Input Ch1: EPD Tac Diff
Entries 3816
Tac

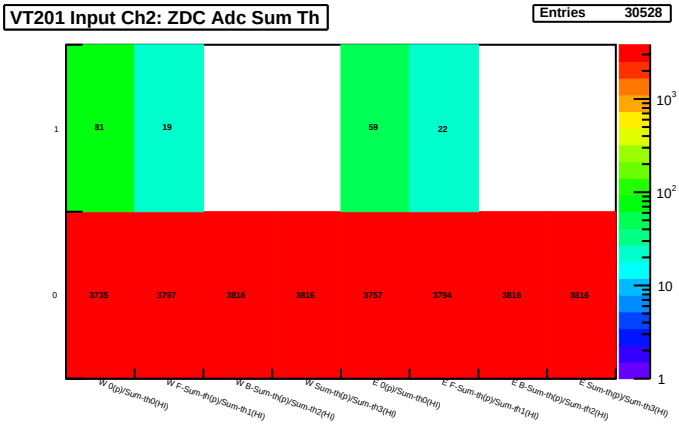

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

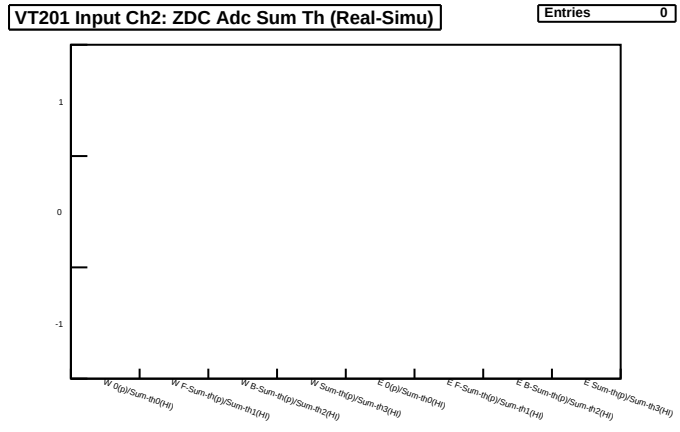

VT201 Input Ch1: EPD Hit Count Th
Entries 7632
3614
3614
202
202
East
West

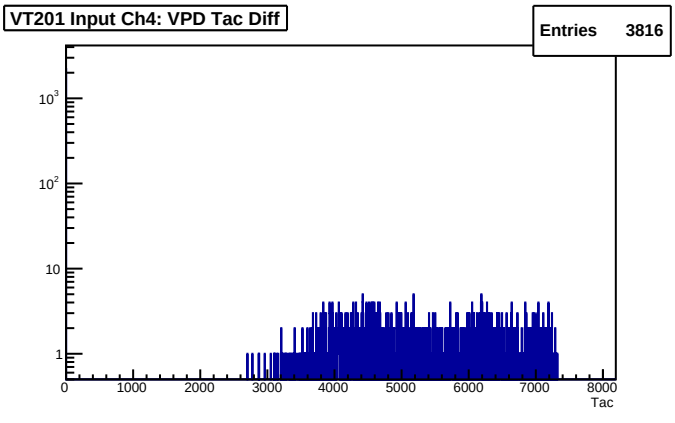

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

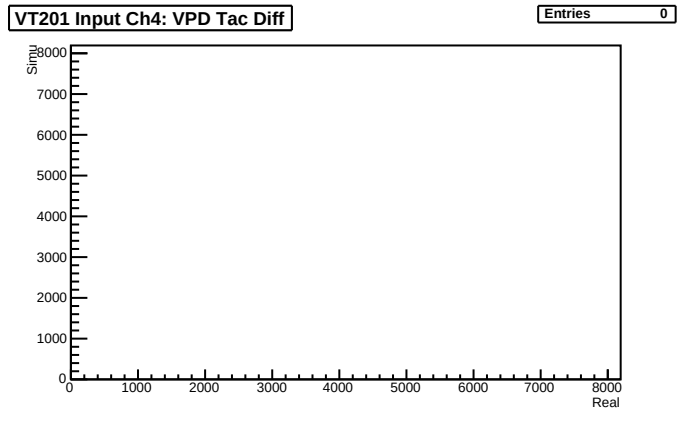

VT201 Input Ch2: ZDC Tac Diff
Entries 3816
Tac

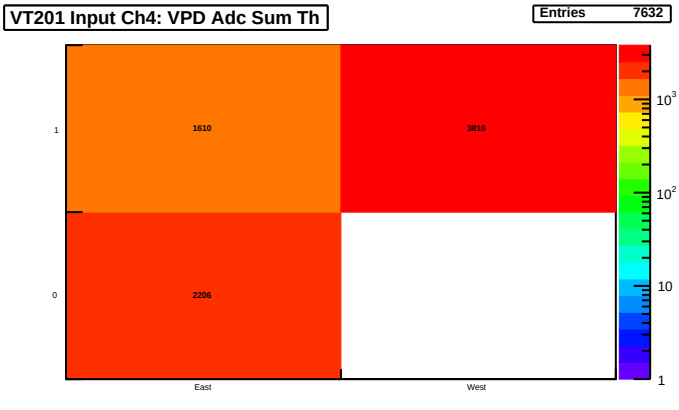

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

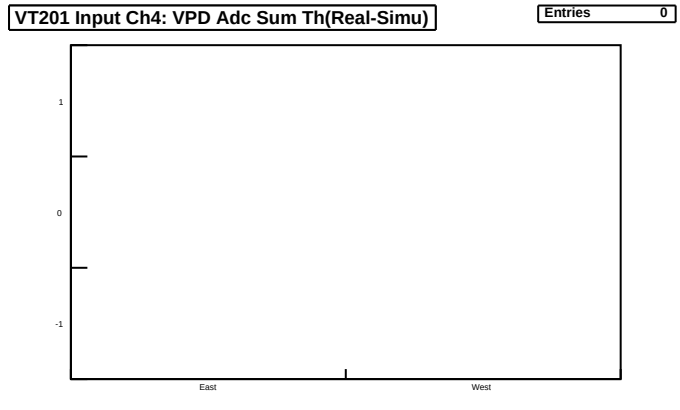

VT201 Input Ch2: ZDC Adc Sum Th
Entries 30528
81
19
59
22
3735
3797
3816
3816
3757
3794
3816
3816
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

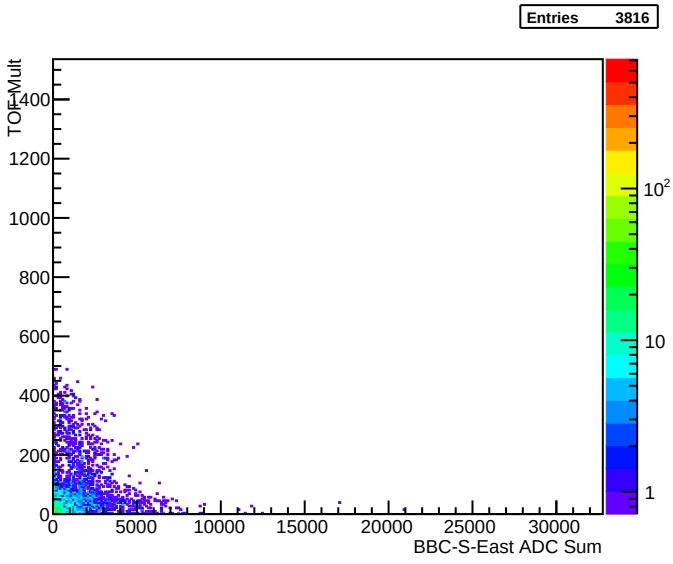

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

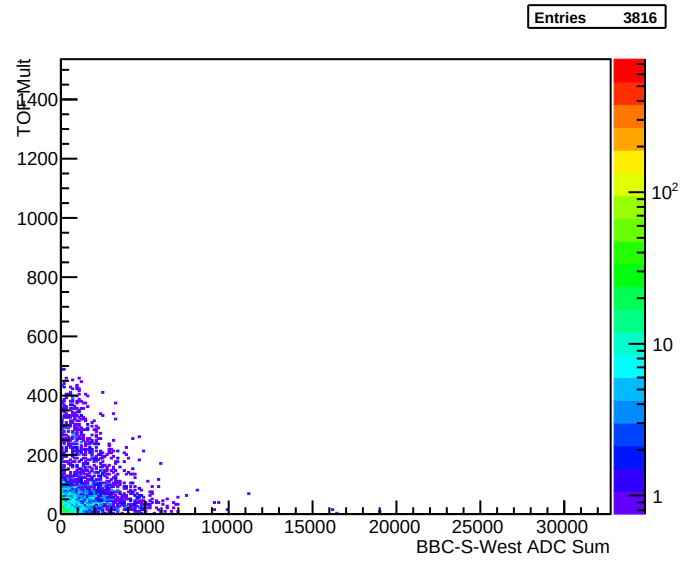

VT201 Input Ch4: VPD Tac Diff
Entries 3816
Tac

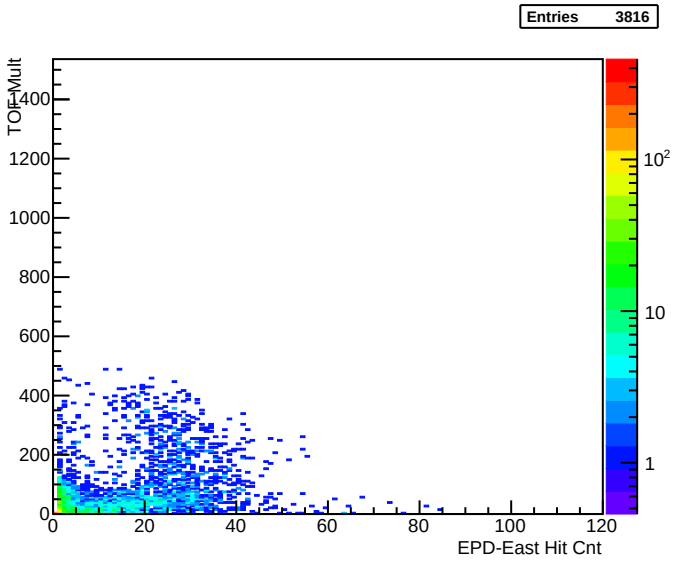

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

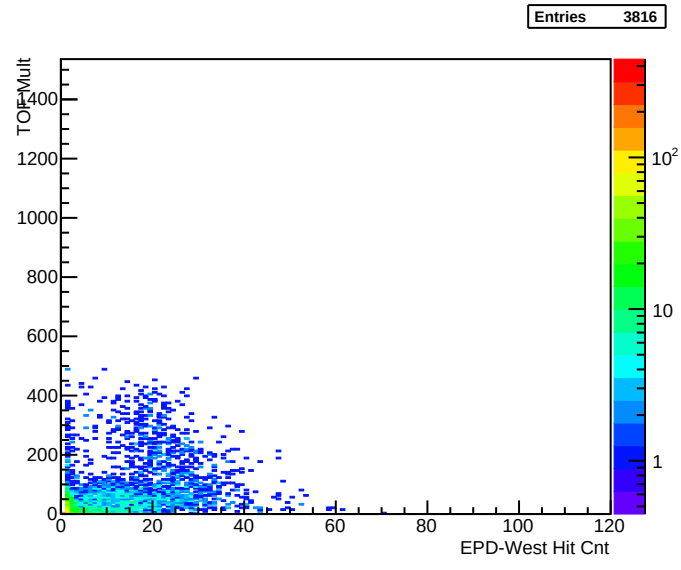

VT201 Input Ch4: VPD Adc Sum Th
Entries 7632
1610
3816
2206
East
West

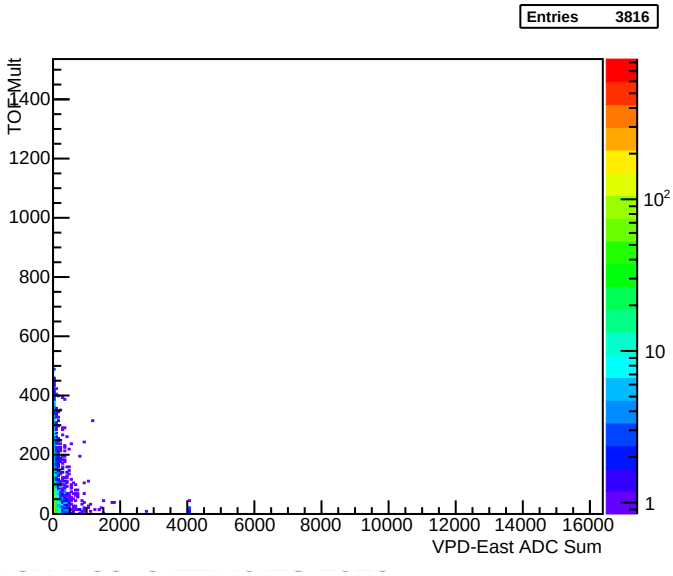

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

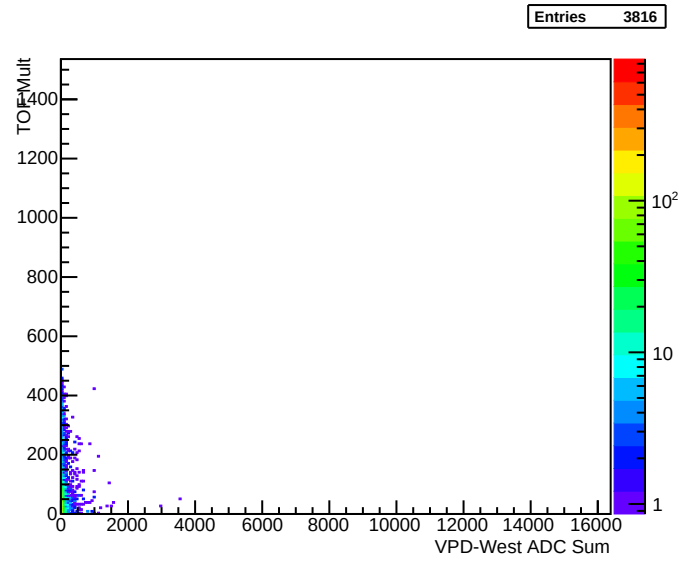

Entries 3816
TOF-Mult
BBC-S-East ADC Sum

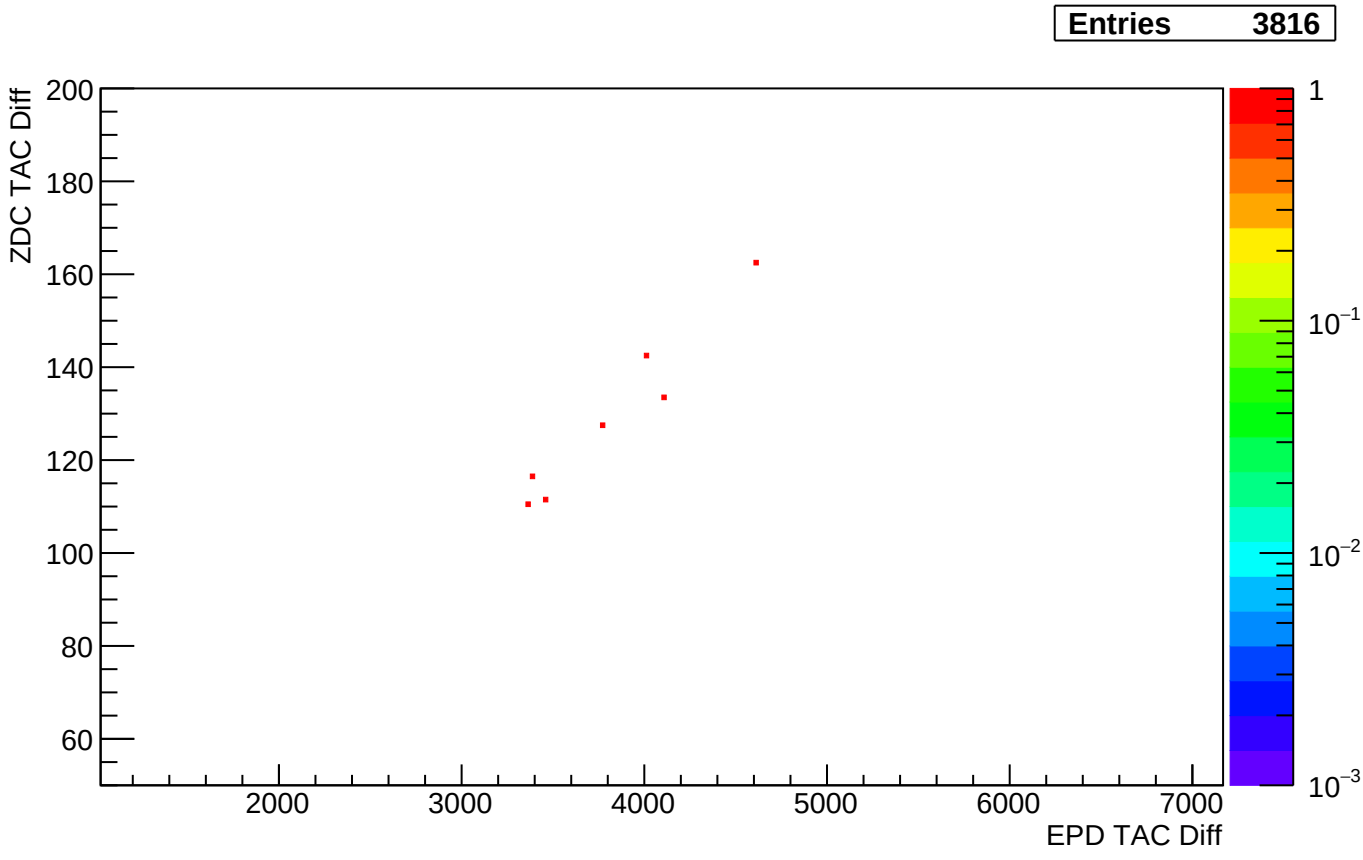

Entries 3816
TOF-Mult
BBC-S-West ADC Sum

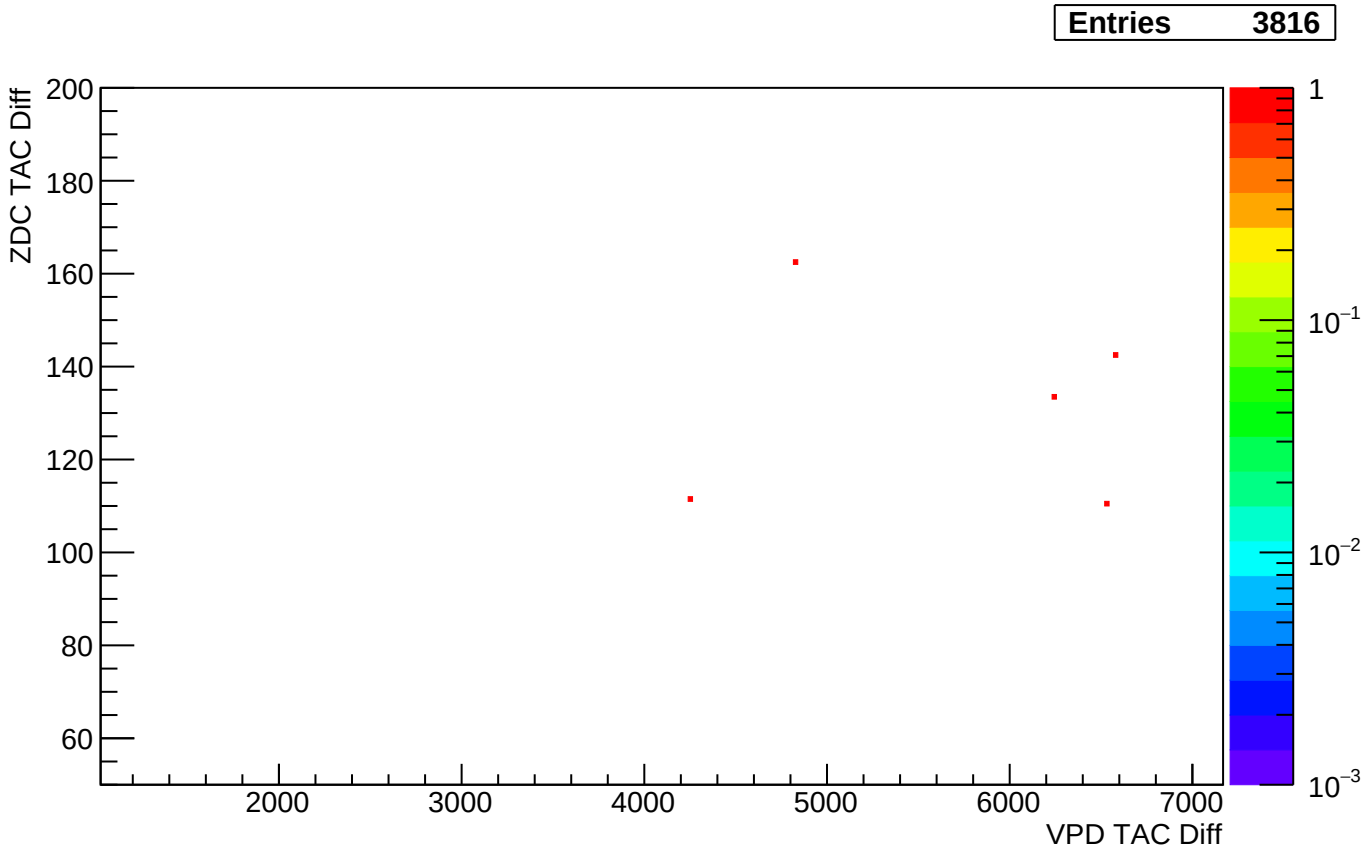

Entries 3816
TOF-Mult
EPD-East Hit Cnt

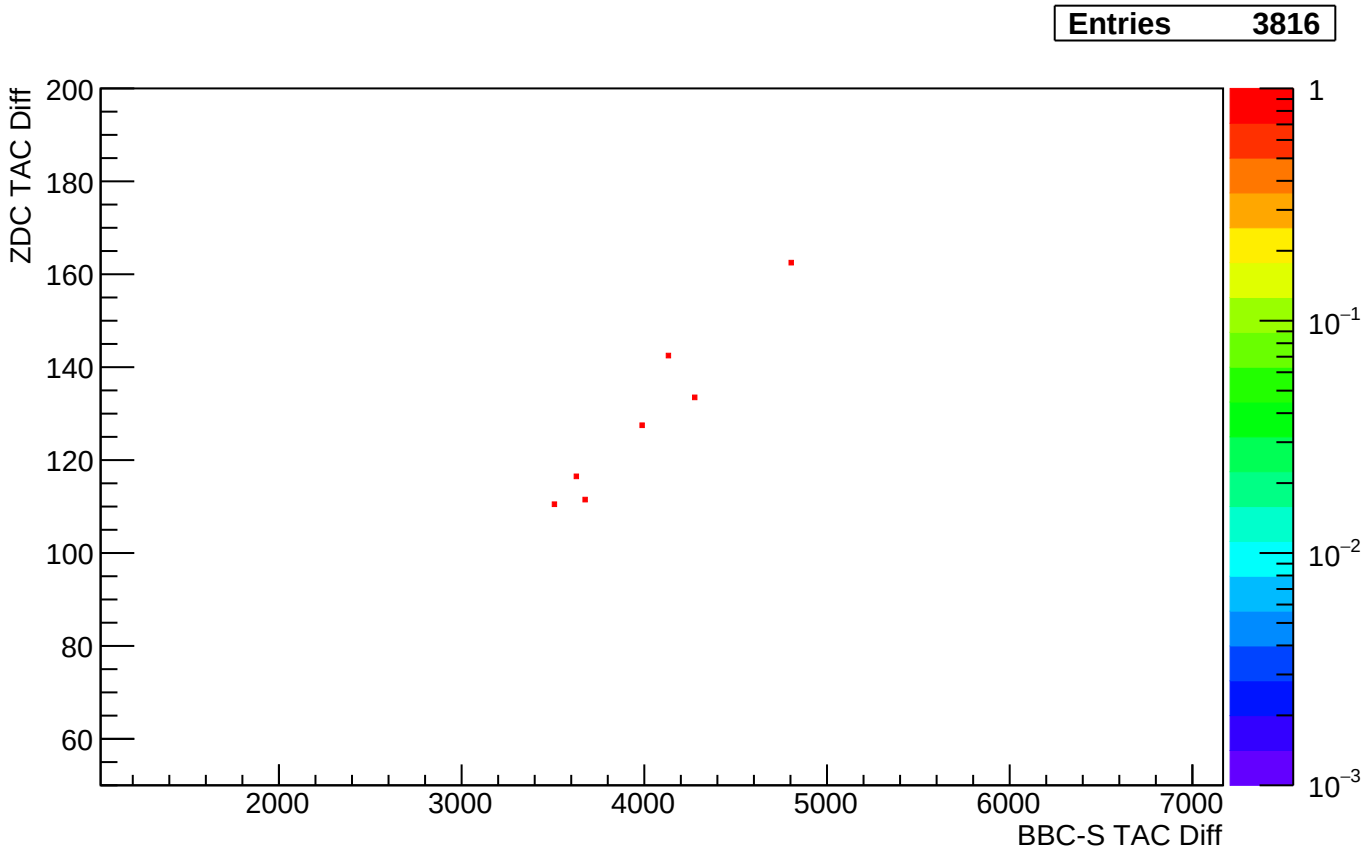

Entries 3816
TOF-Mult
EPD-West Hit Cnt

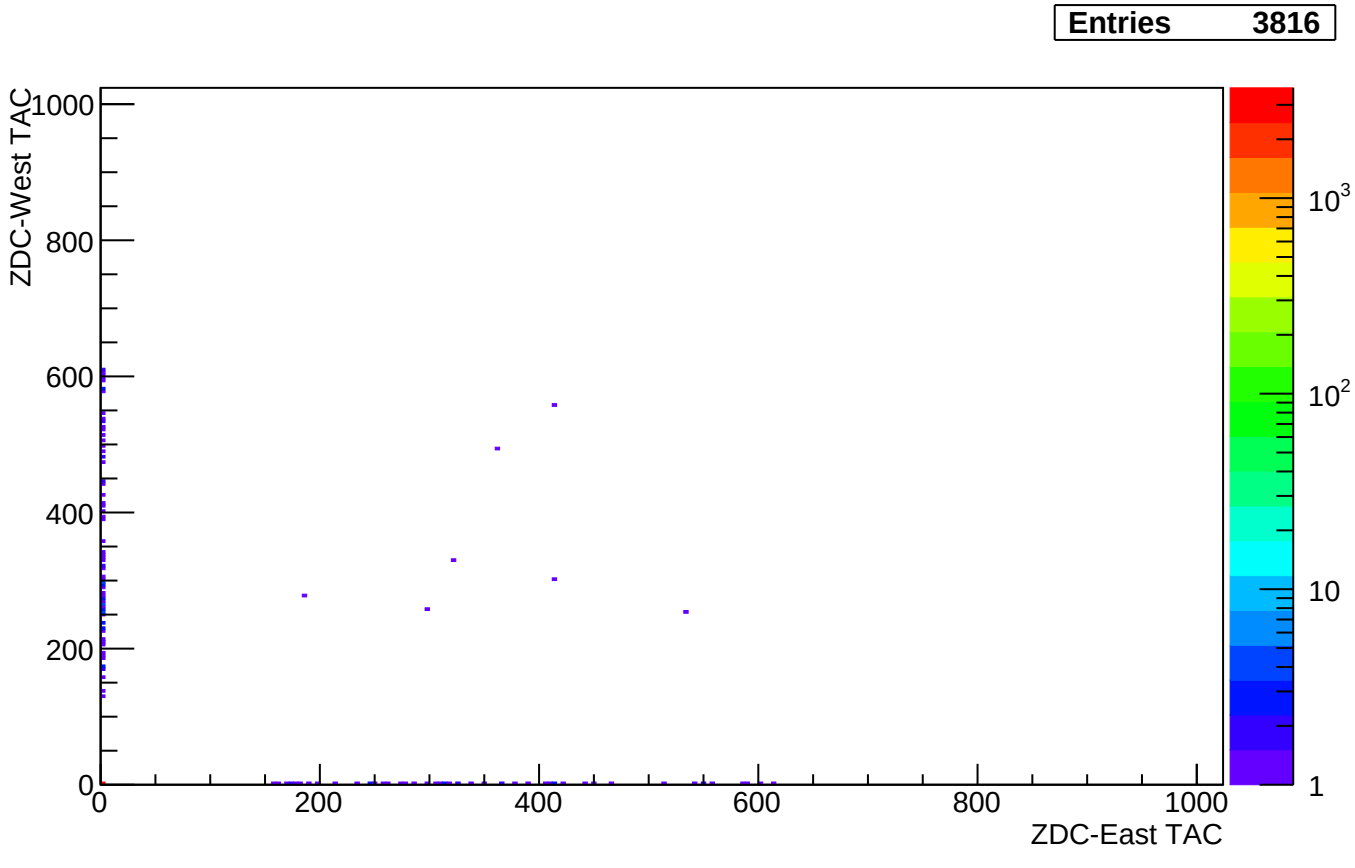

Entries 3816
TOF-Mult
VPD-East ADC Sum

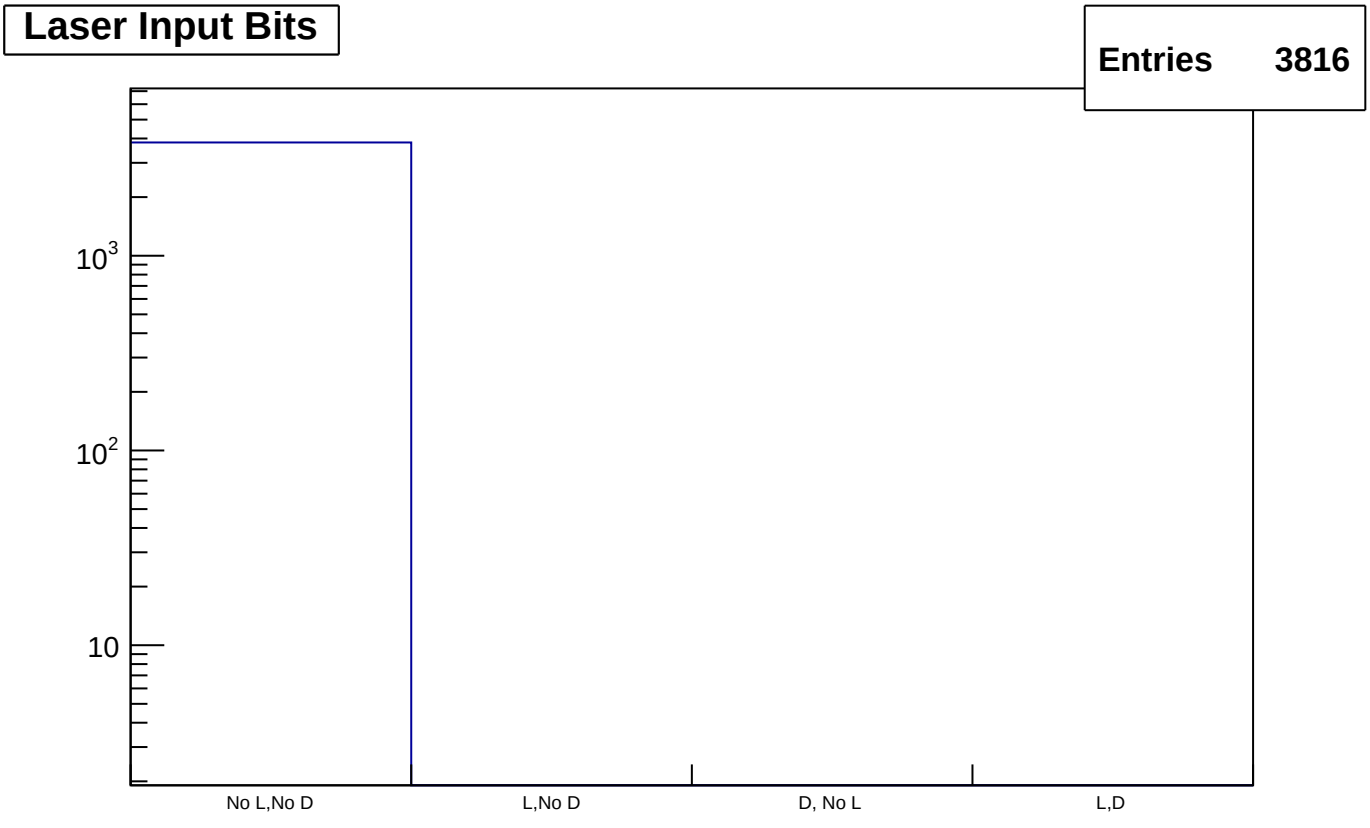

Entries 3816
TOF-Mult
VPD-West ADC Sum

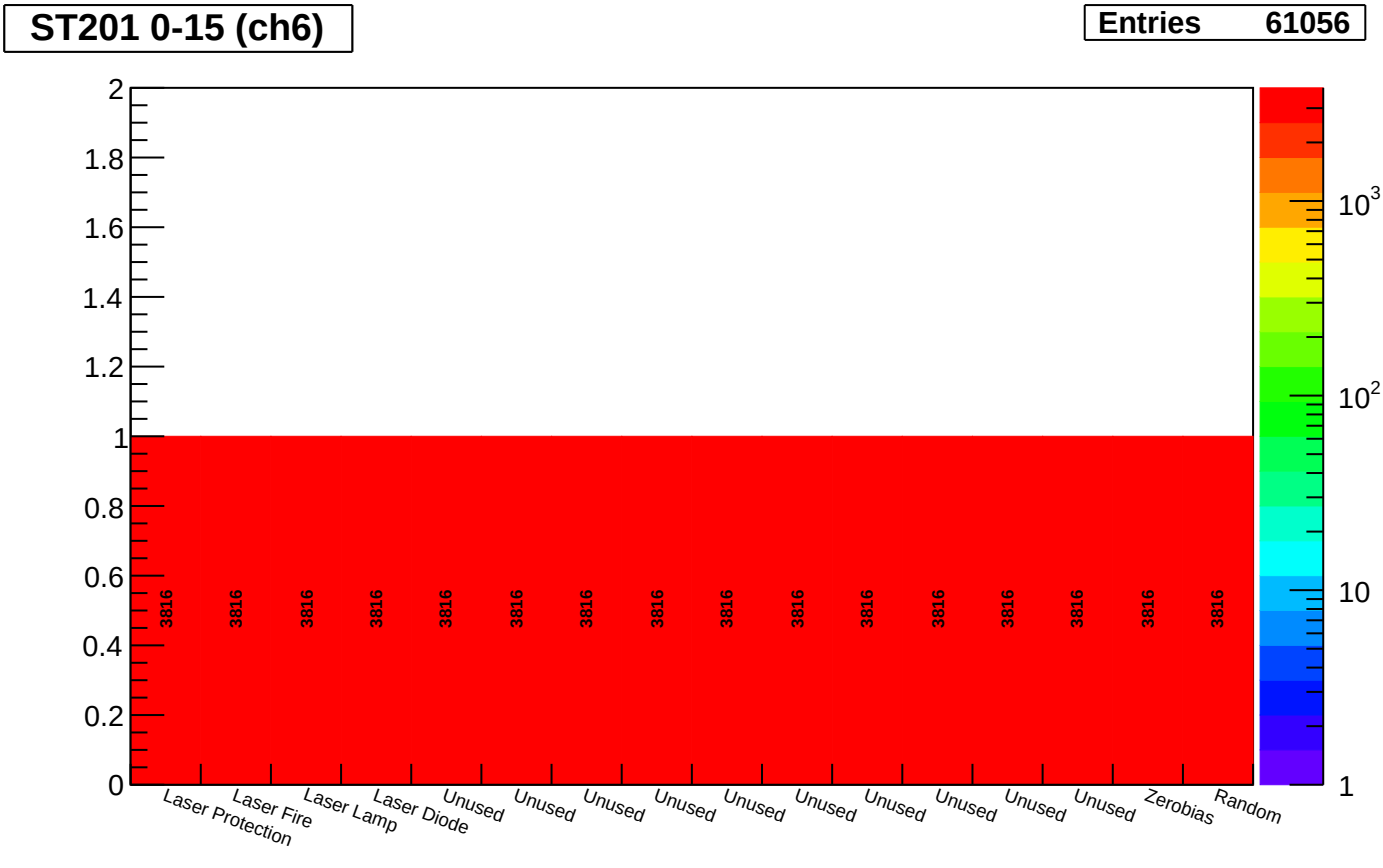

Entries 3816
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

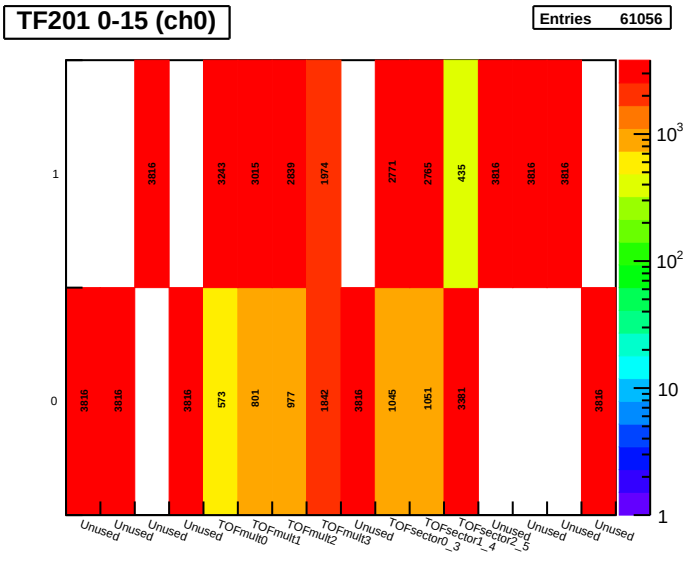

Entries 3816
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

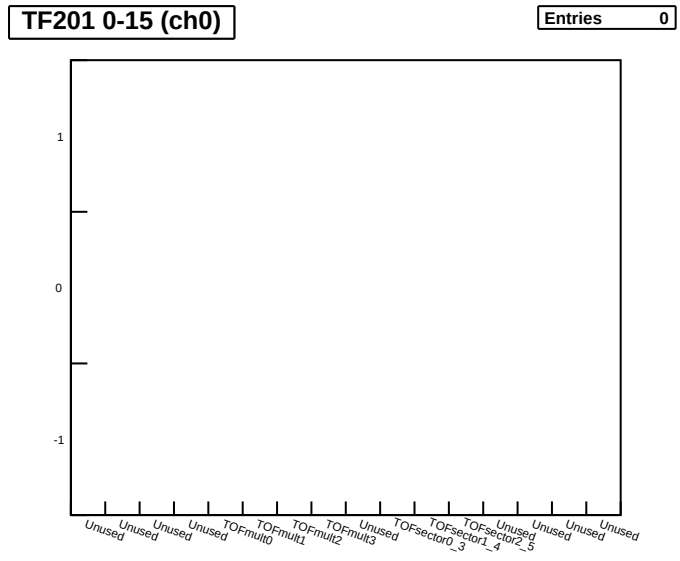

Entries 3816
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

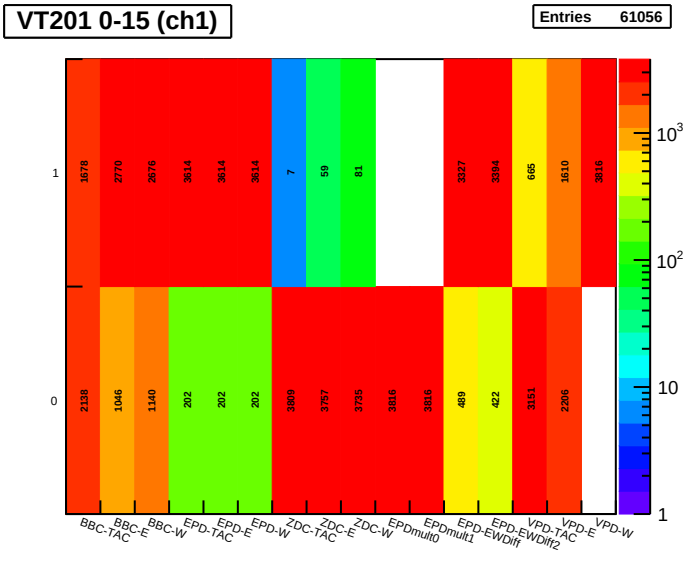

Entries 3816
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^3
10^2
10
1

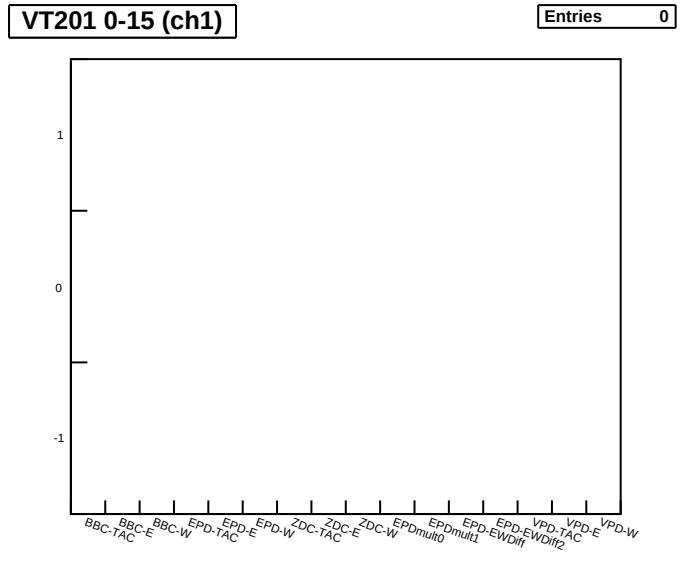

Laser Input Bits
Entries 3816
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

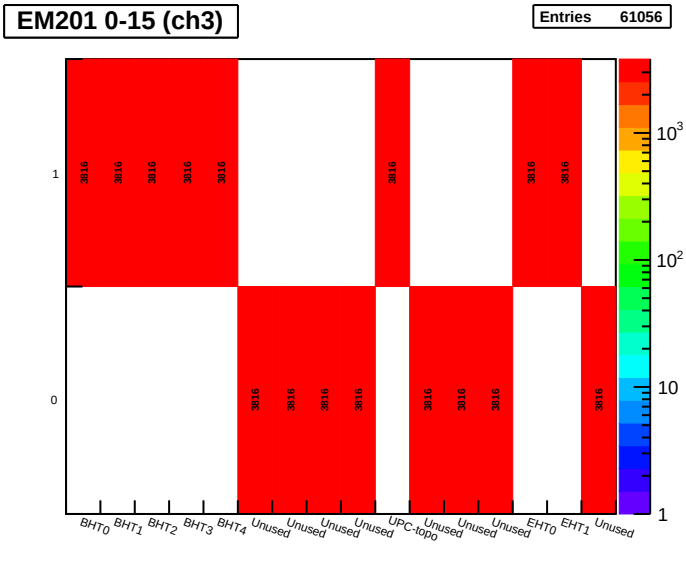

ST201 0-15 (ch6)
Entries 61056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3816
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^3
10^2
10
1

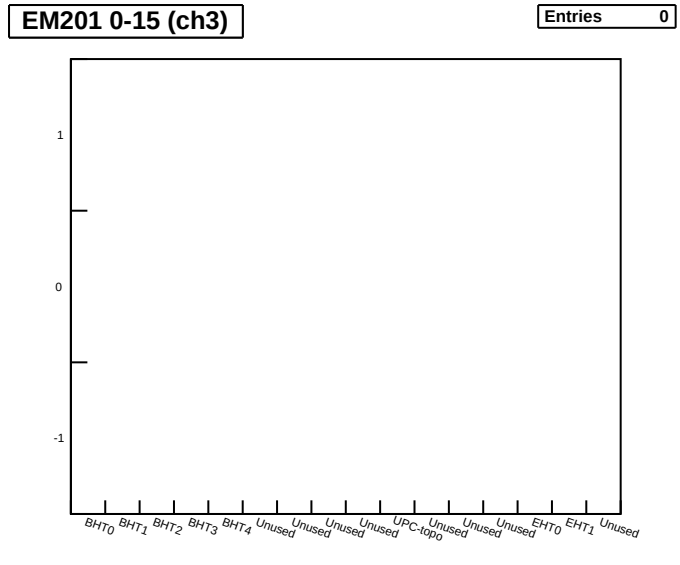

TF201 0-15 (ch0)
Entries 61056
1
0
3816 3243 3015 2839 1974 2771 2765 435 3816 3816 3816
3816 3816 3816 573 801 977 1842 3816 1045 1051 3381 3816
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^3
10^2
10
1


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 61056
1
0
1678 2770 2676 3614 3614 3614 7 59 81 3327 3394 665 1610 3816
2138 1046 1140 202 202 202 3809 3757 3735 3816 3816 489 422 3151 2206
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 61056
1
0
3816 3816 3816 3816 3816 3816 3816 3816 3816
3816 3816 3816 3816 3816 3816 3816 3816
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