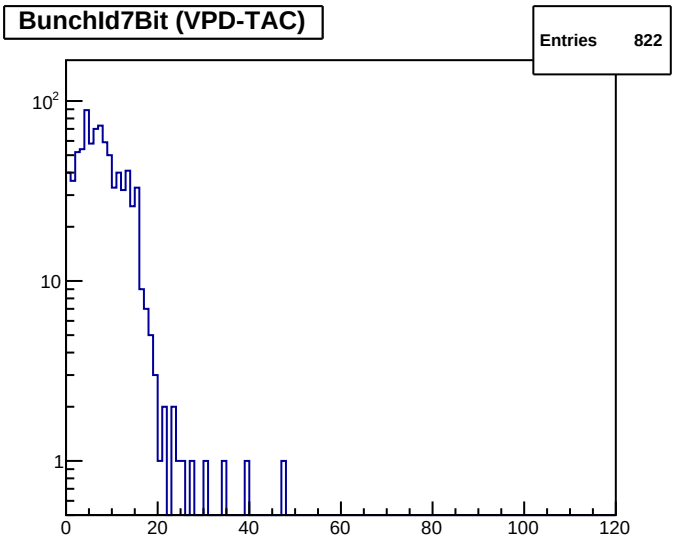
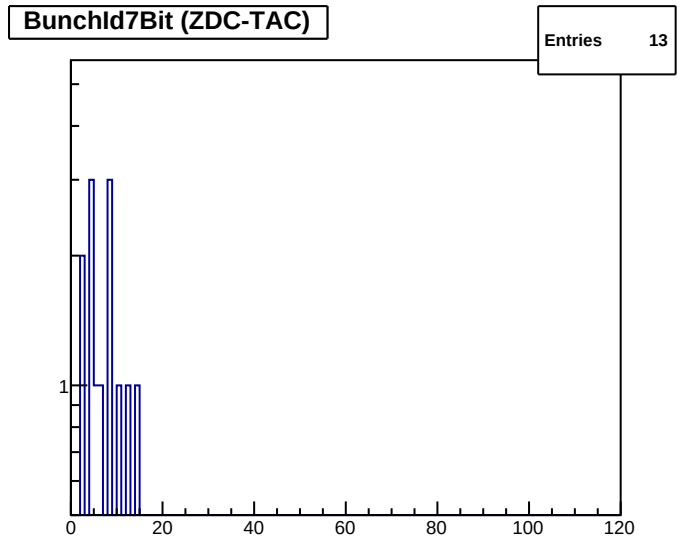
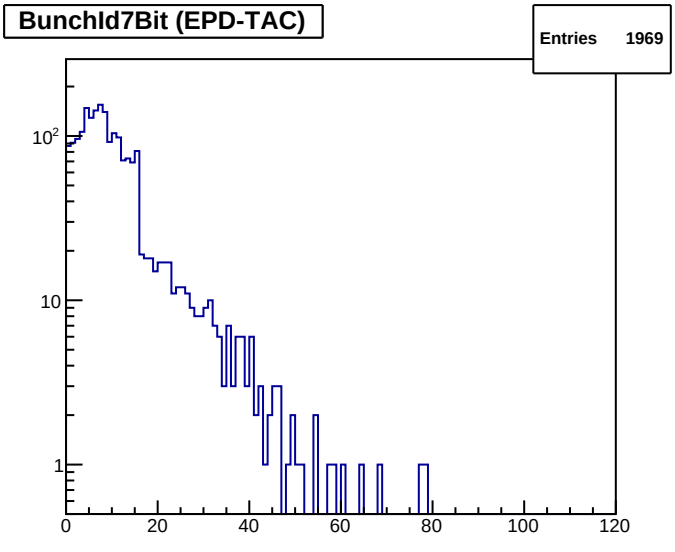
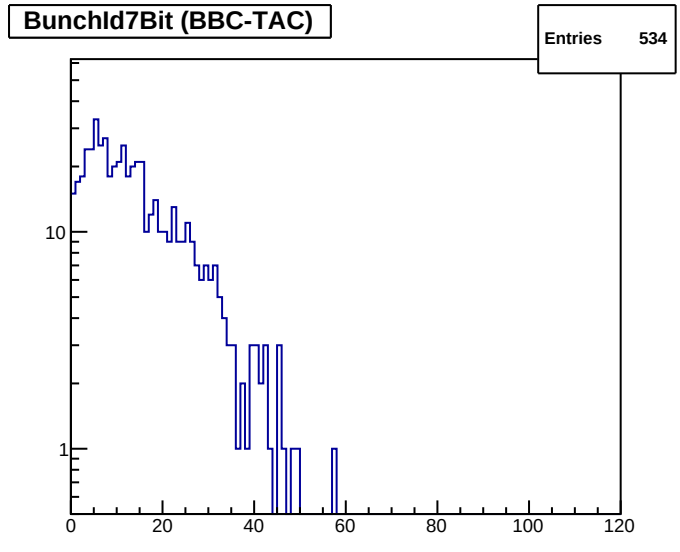
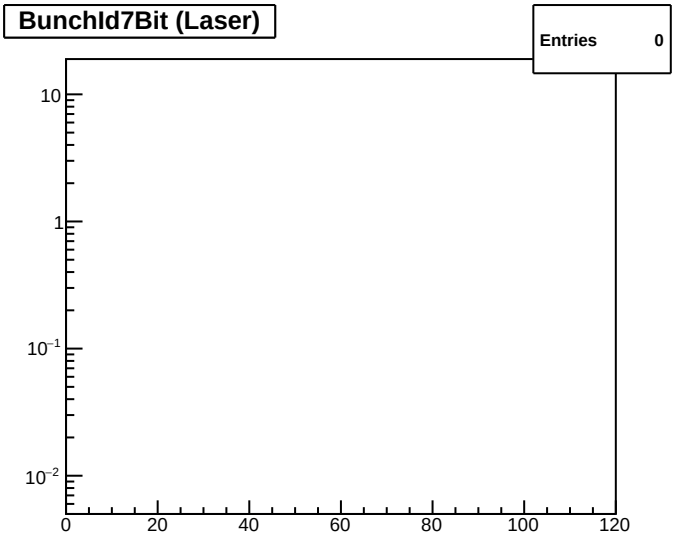
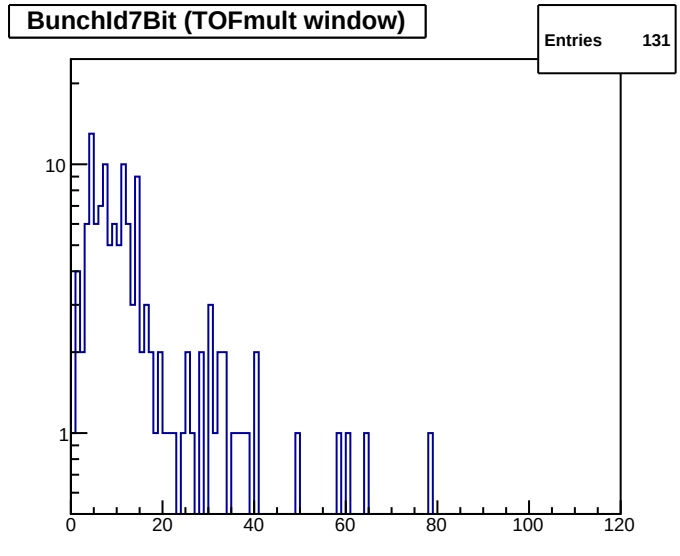

BunchId7Bit (VPD-TAC)
Entries 822
10^2
10
1
0
20
40
60
80
100
120

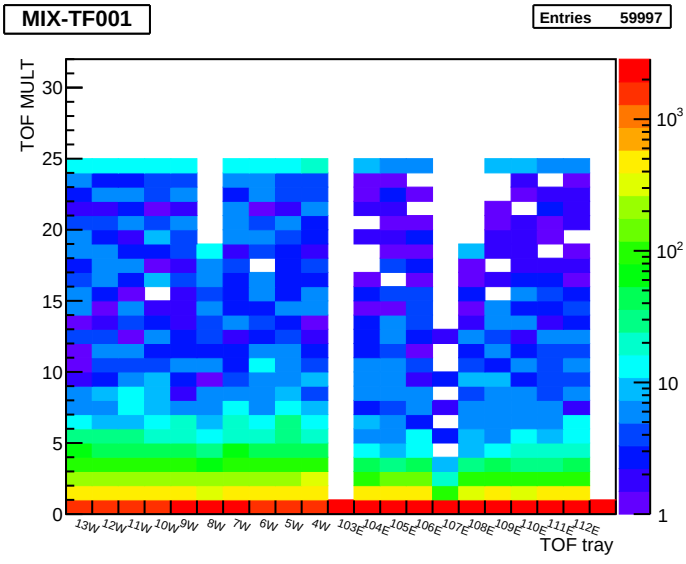

BunchId7Bit (ZDC-TAC)
Entries 13
1
0
20
40
60
80
100
120

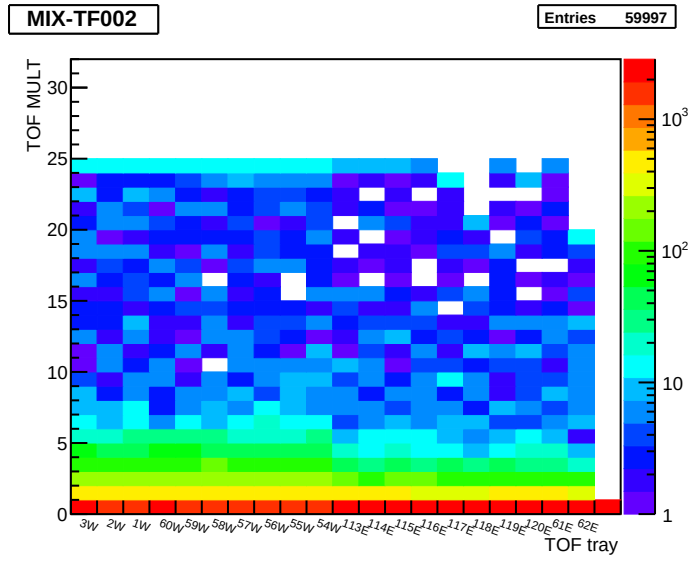

BunchId7Bit (EPD-TAC)
Entries 1969
10^2
10
1
0
20
40
60
80
100
120

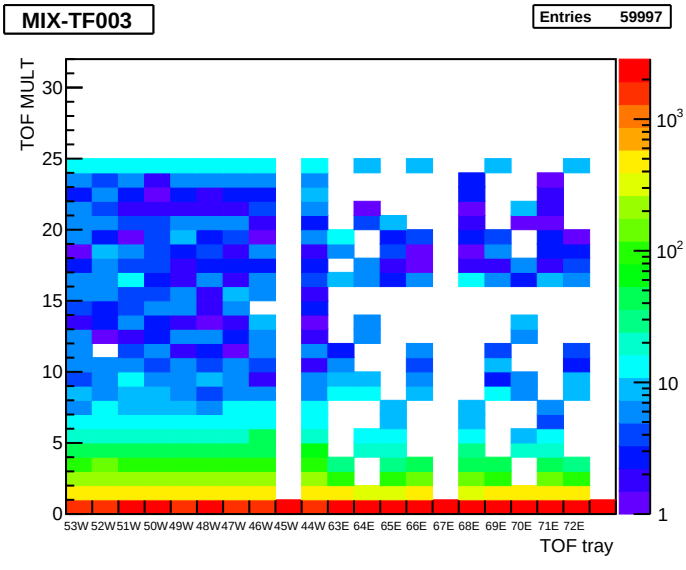

BunchId7Bit (BBC-TAC)
Entries 534
10
1
0
20
40
60
80
100
120

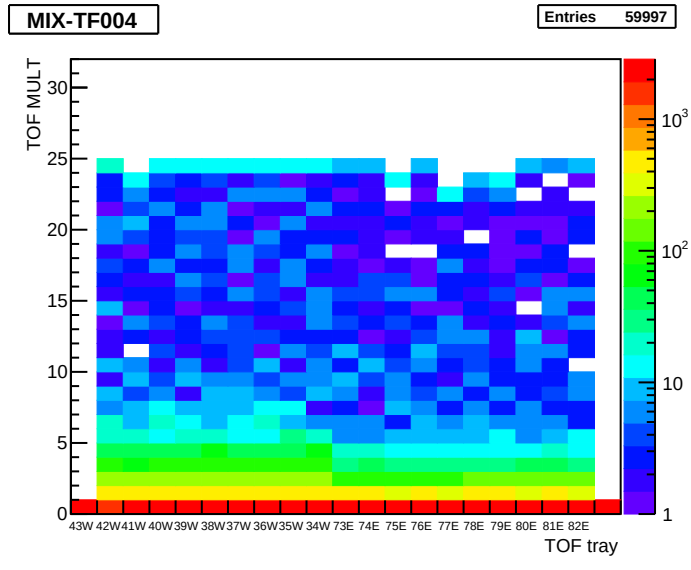

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

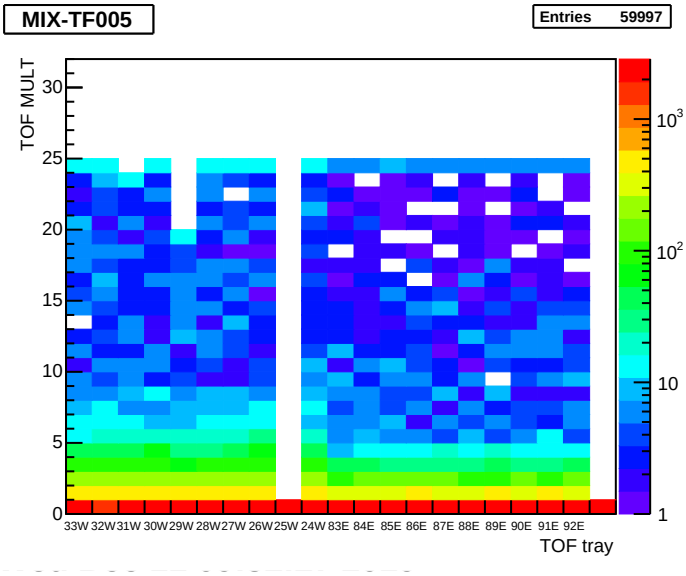

BunchId7Bit (TOFmult window)
Entries 131
10
1
0
20
40
60
80
100
120

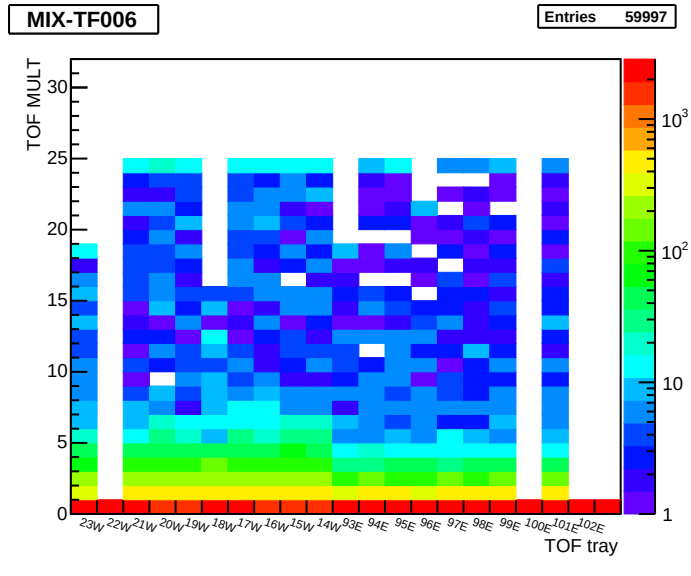

MIX-TF001
Entries 59997
TOF MULT
TOF tray

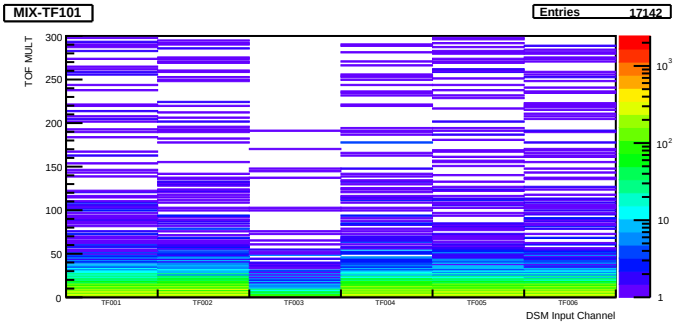

MIX-TF002
Entries 59997
TOF MULT
TOF tray

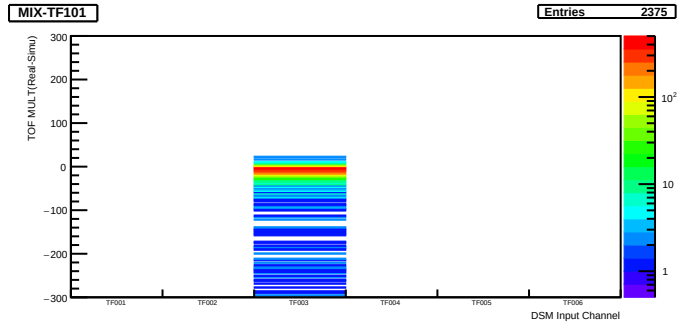

MIX-TF003
Entries 59997
TOF MULT
TOF tray

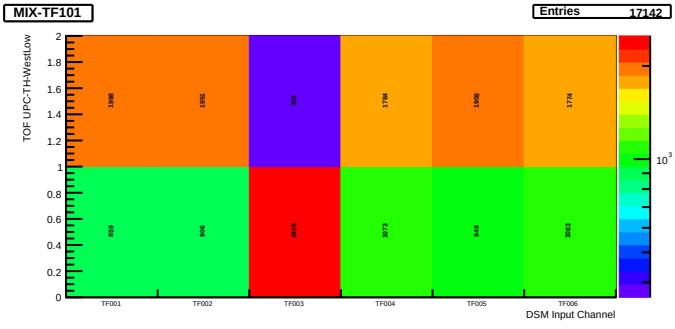

MIX-TF004
Entries 59997
TOF MULT
TOF tray

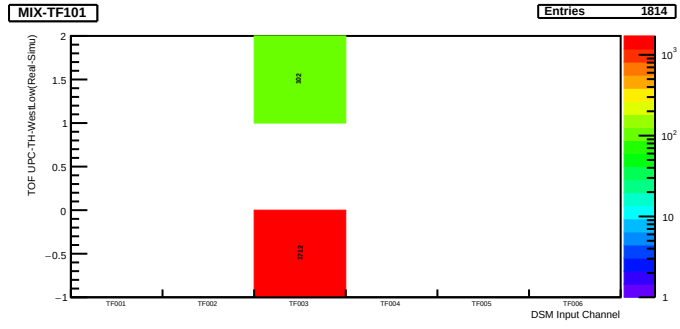

MIX-TF005
Entries 59997
TOF MULT
TOF tray

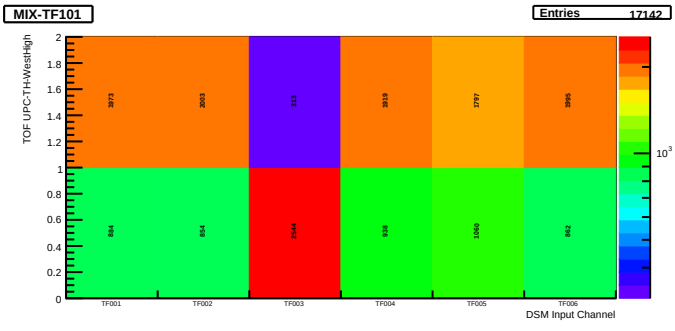

MIX-TF006
Entries 59997
TOF MULT
TOF tray

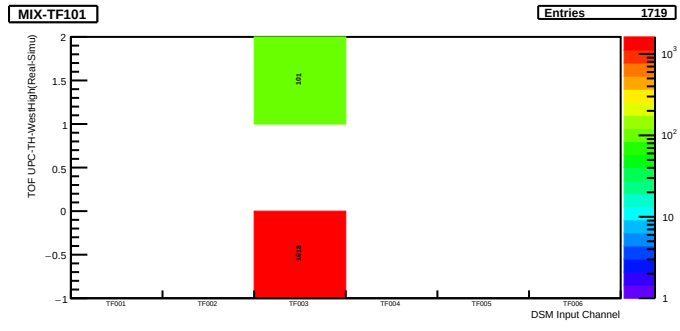

MIX-TF101
Entries 17142
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

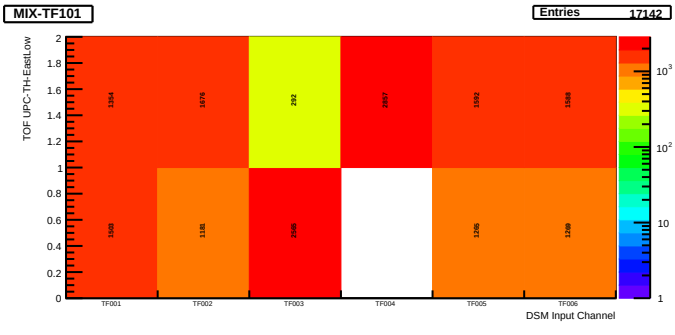

MIX-TF101
Entries 2375
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

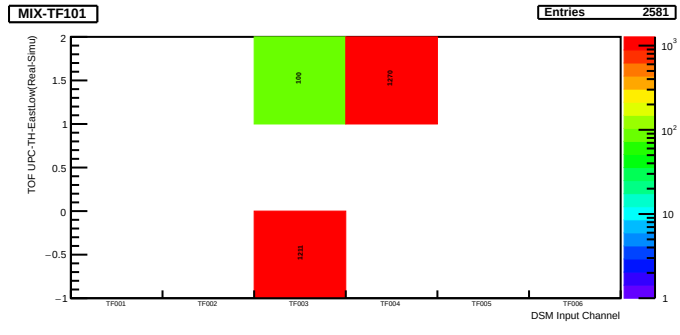

MIX-TF101
Entries 17142
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

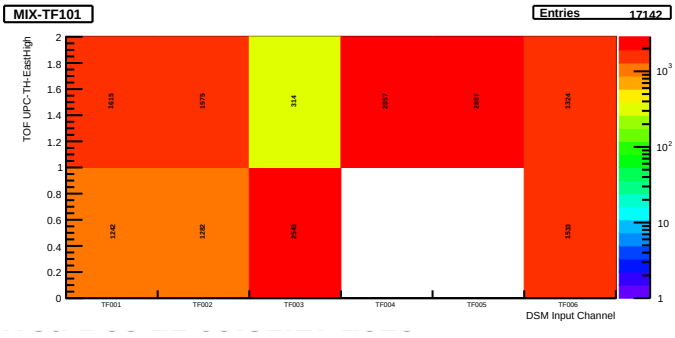

MIX-TF101
Entries 1814
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

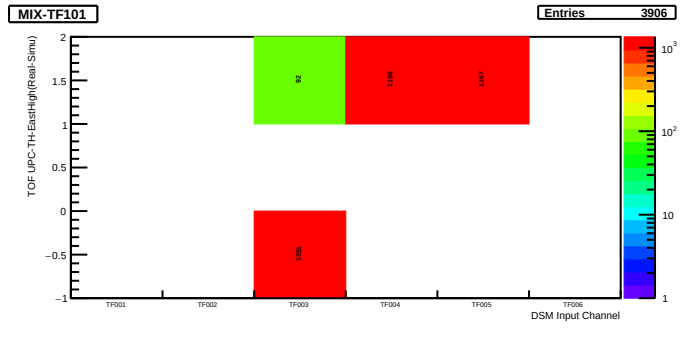

MIX-TF101
Entries 17142
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

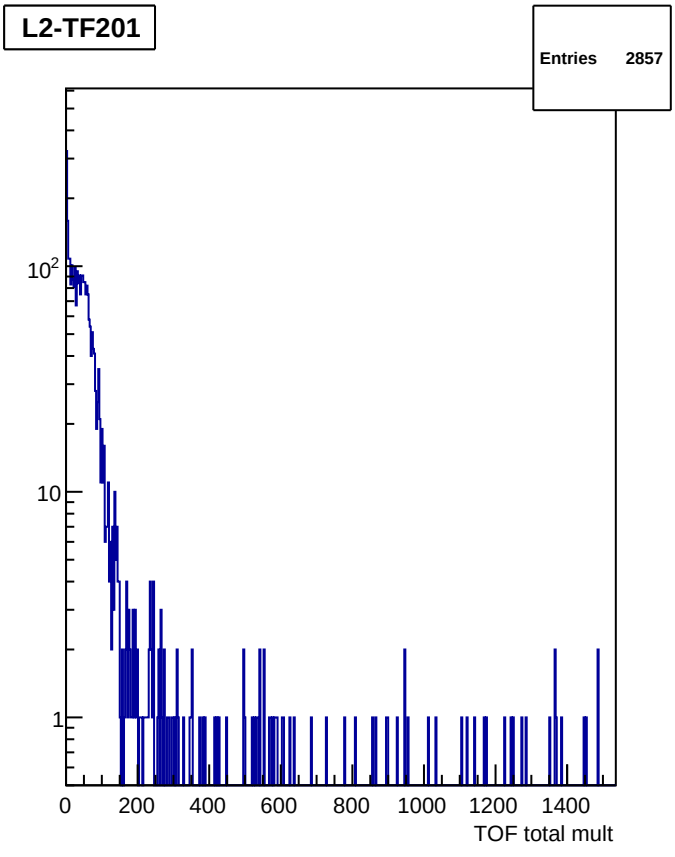

MIX-TF101
Entries 1719
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

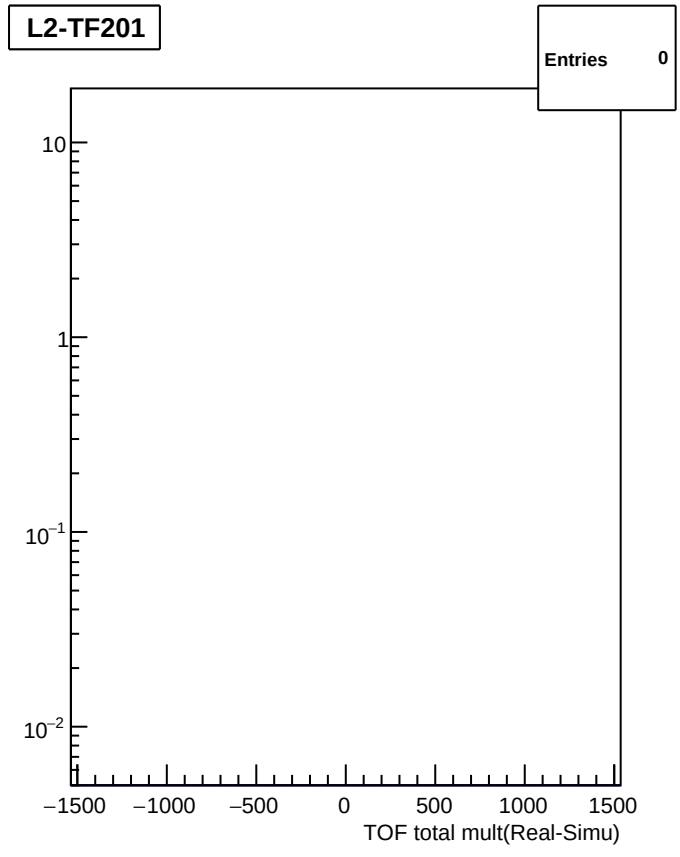

MIX-TF101
Entries 17142
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

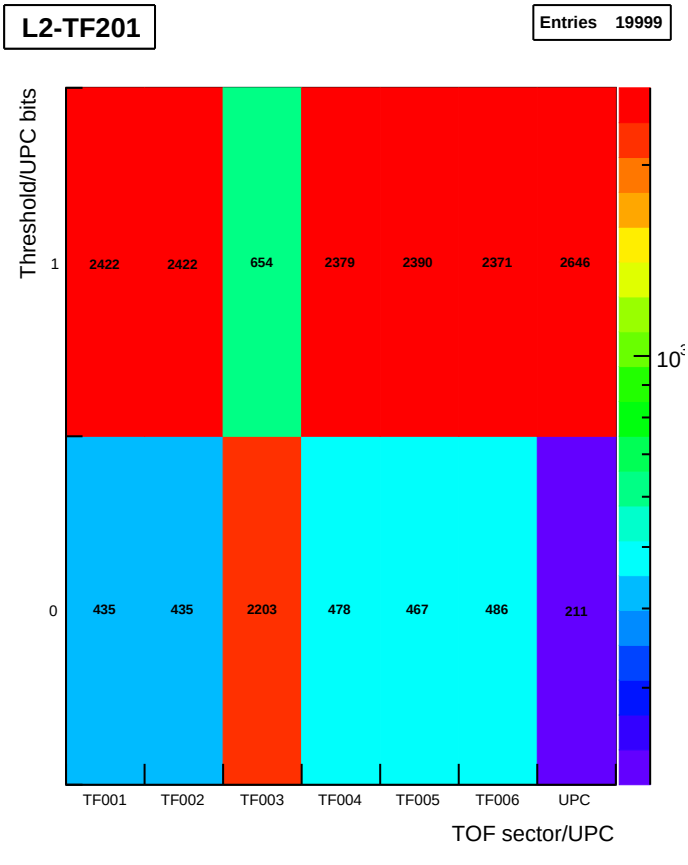

MIX-TF101
Entries 2581
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

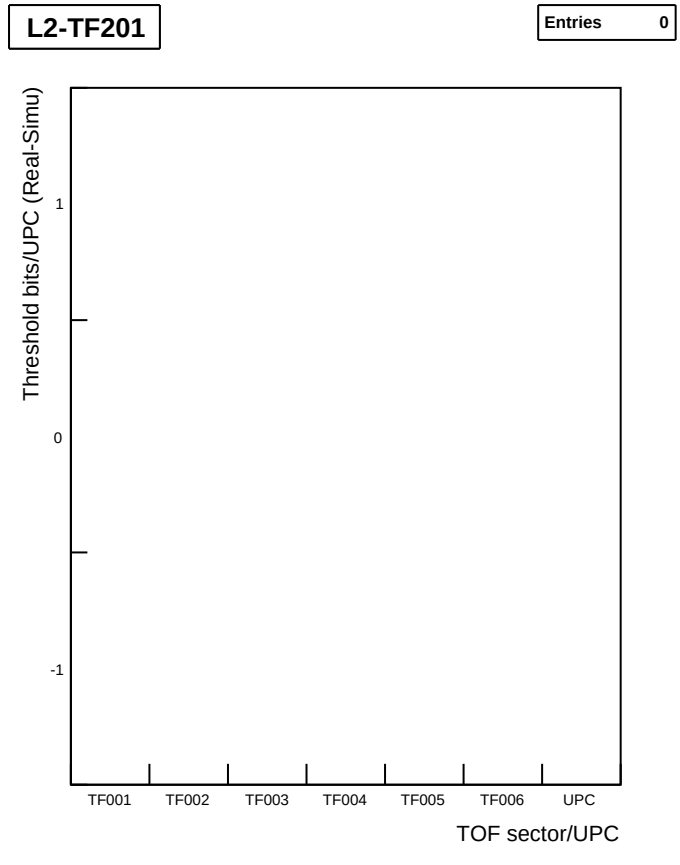

MIX-TF101
Entries 17142
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

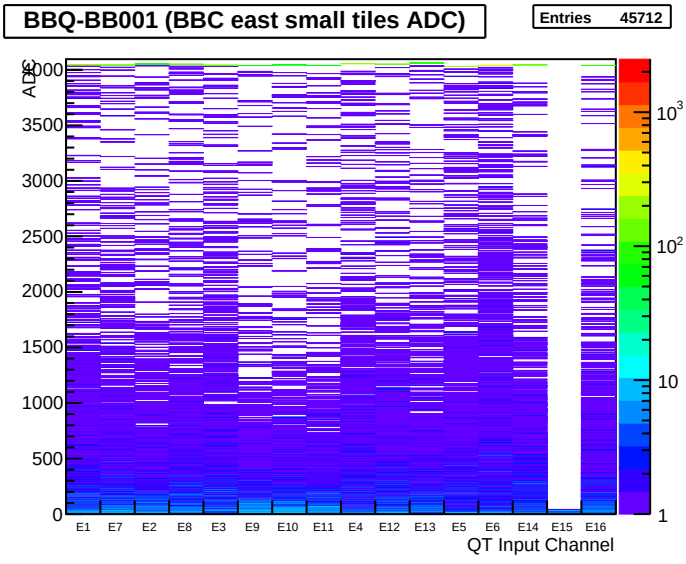

MIX-TF101
Entries 3906
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

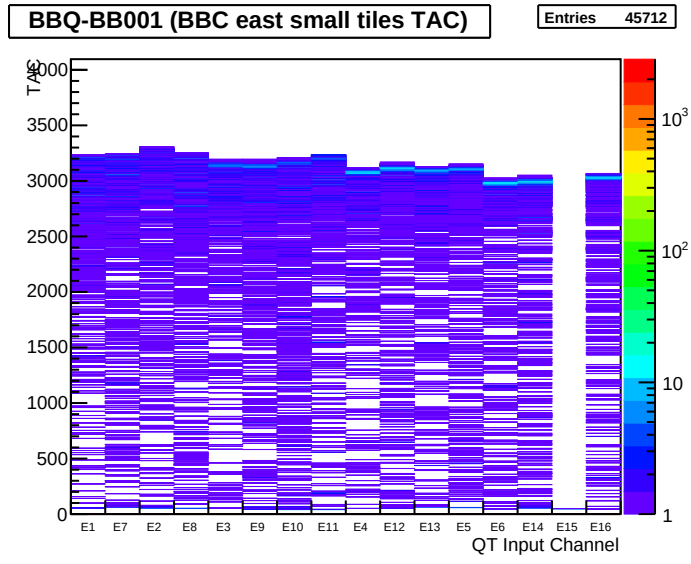

L2-TF201
Entries 2857
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

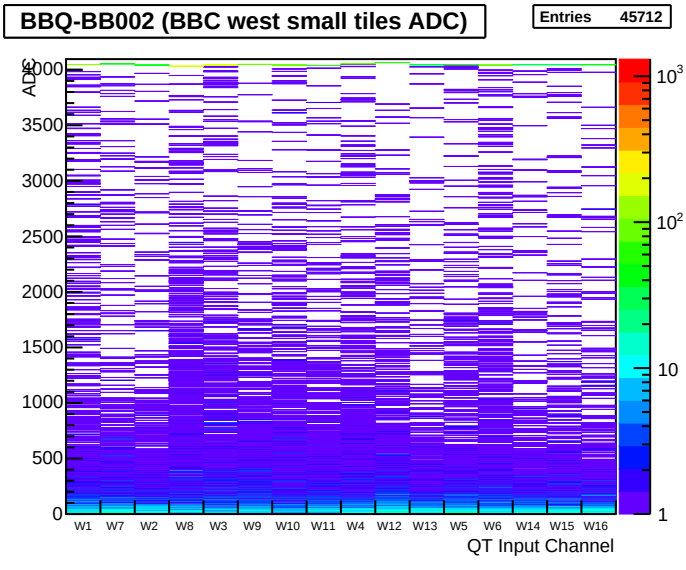

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

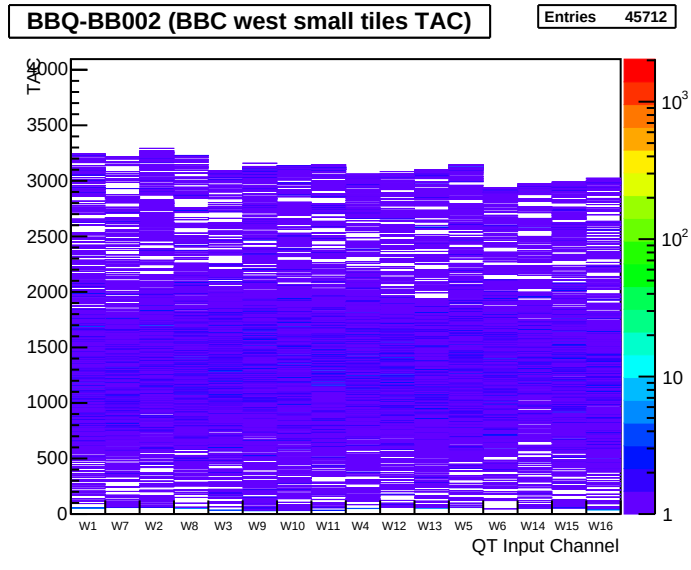

L2-TF201
Entries 19999
Threshold/UPC bits
1
0
2422
2422
654
2379
2390
2371
2646
435
435
2203
478
467
486
211
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

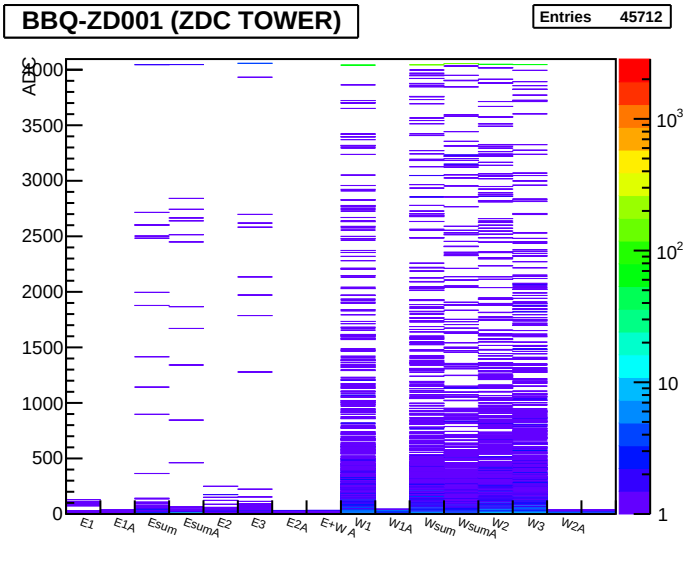

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

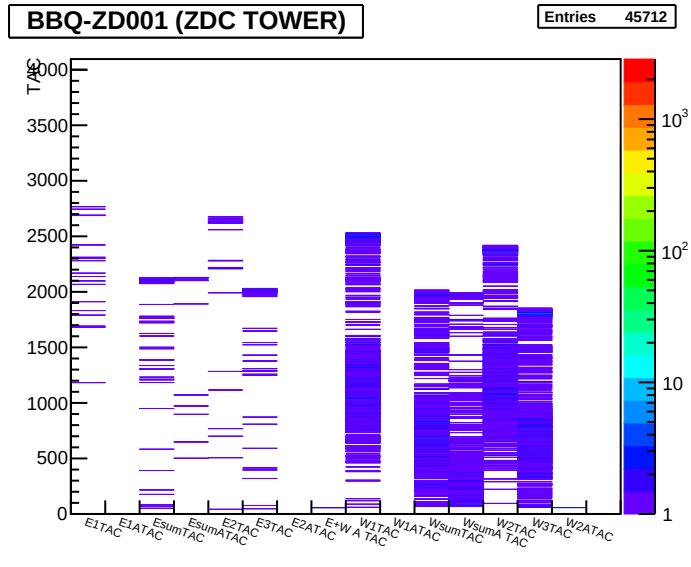

BBQ-BB001 (BBC east small tiles ADC)
Entries 45712
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

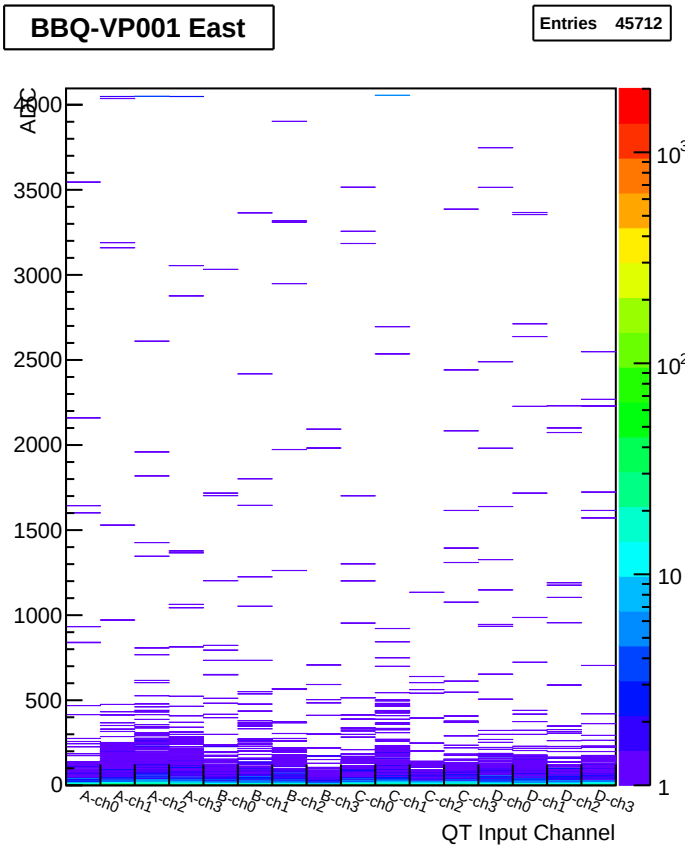

BBQ-BB001 (BBC east small tiles TAC)
Entries 45712
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

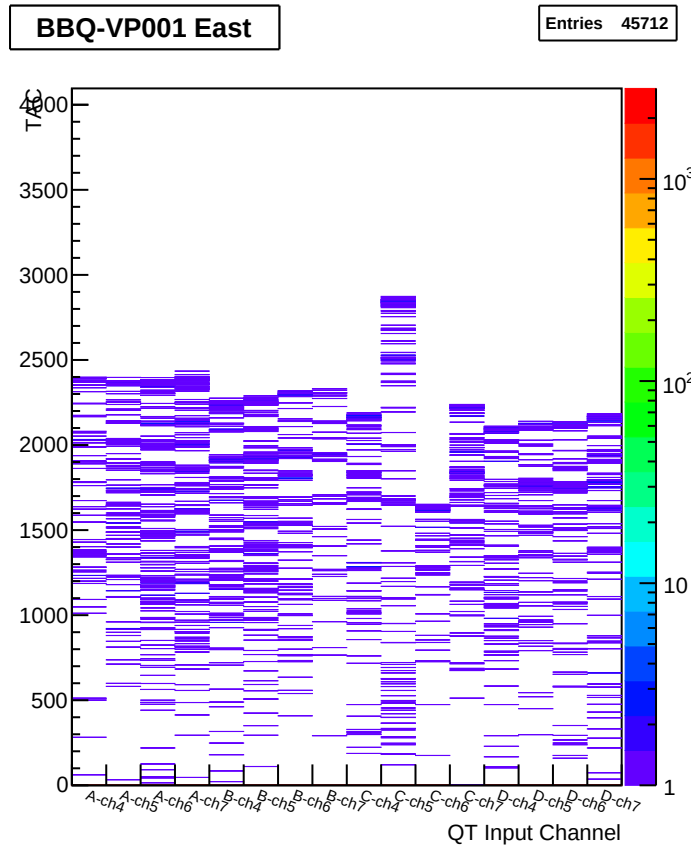

BBQ-BB002 (BBC west small tiles ADC)
Entries 45712
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

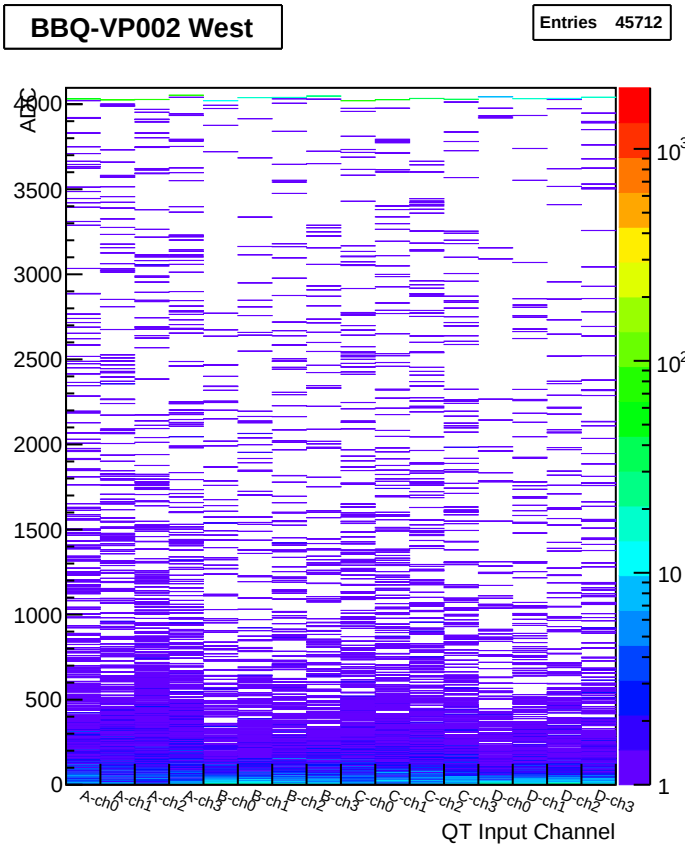

BBQ-BB002 (BBC west small tiles TAC)
Entries 45712
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

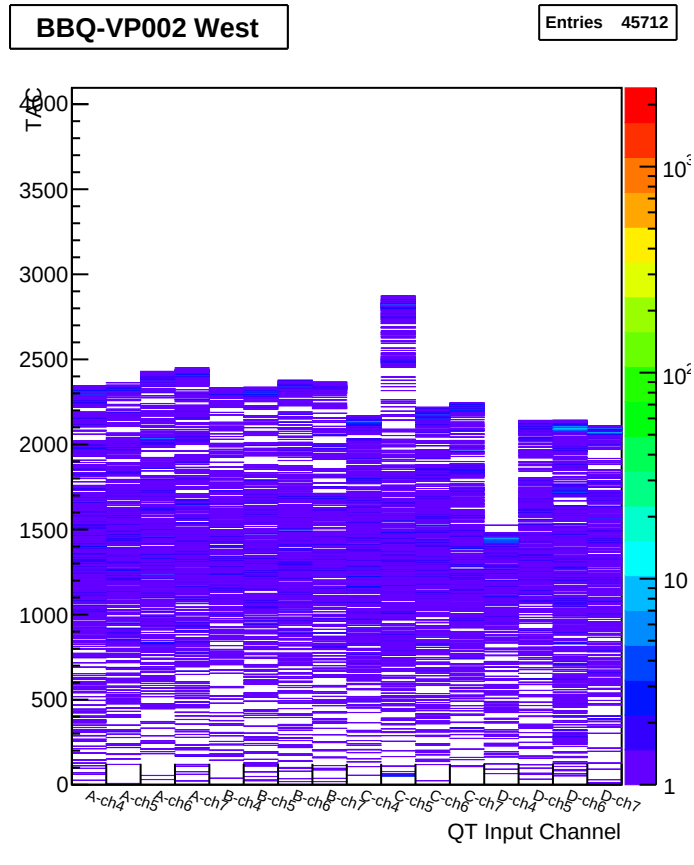

BBQ-ZD001 (ZDC TOWER)
Entries 45712
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

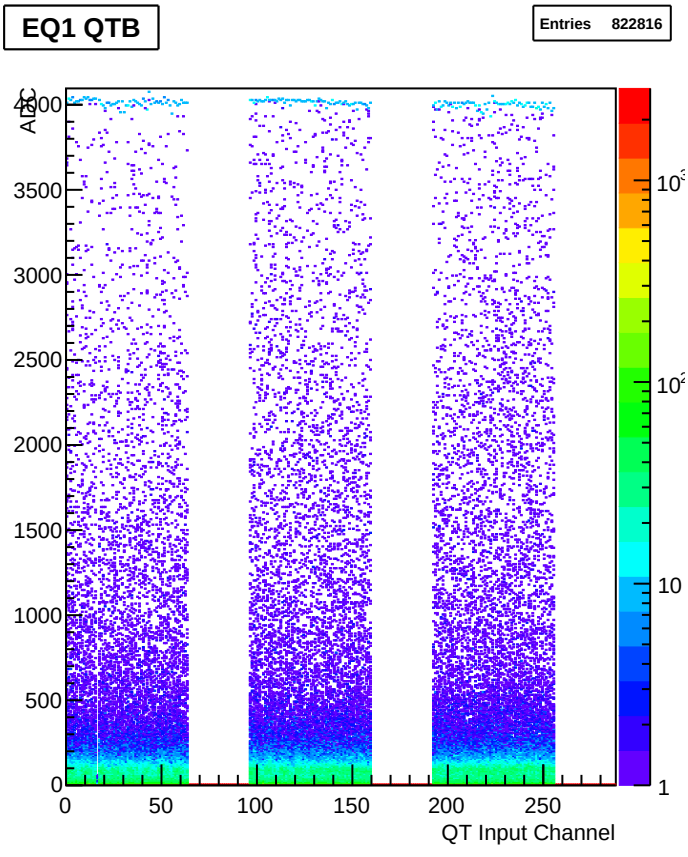

BBQ-ZD001 (ZDC TOWER)
Entries 45712
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

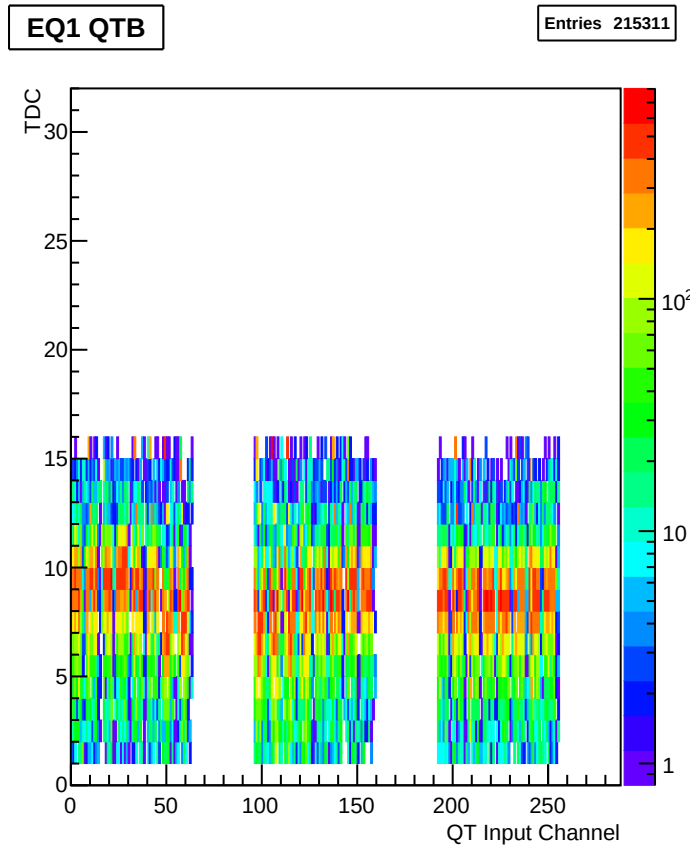

BBQ-VP001 East
Entries 45712
ADC
QT Input Channel

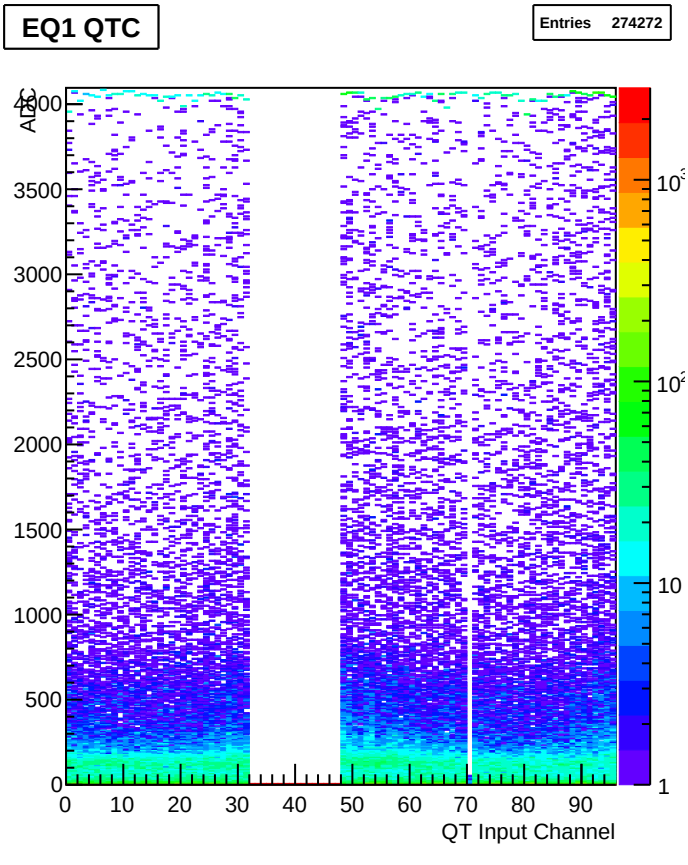

BBQ-VP001 East
Entries 45712
TADC
QT Input Channel

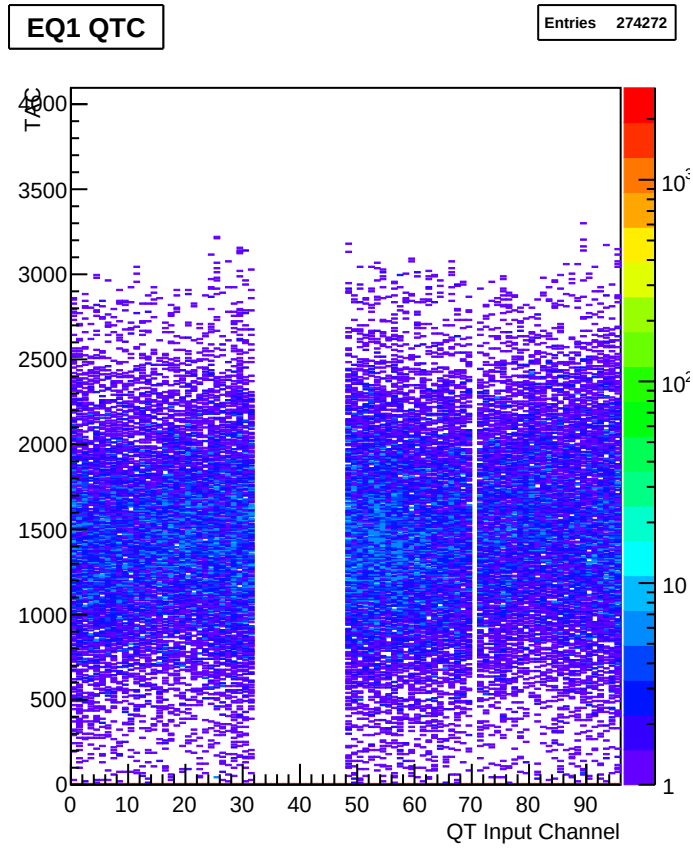

BBQ-VP002 West
Entries 45712
ADC
QT Input Channel

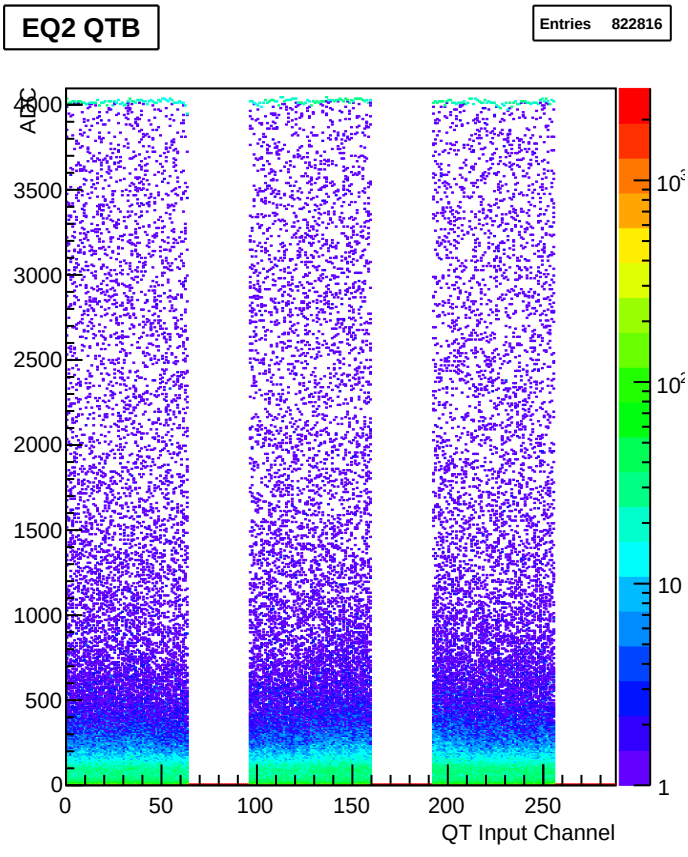

BBQ-VP002 West
Entries 45712
TADC
QT Input Channel

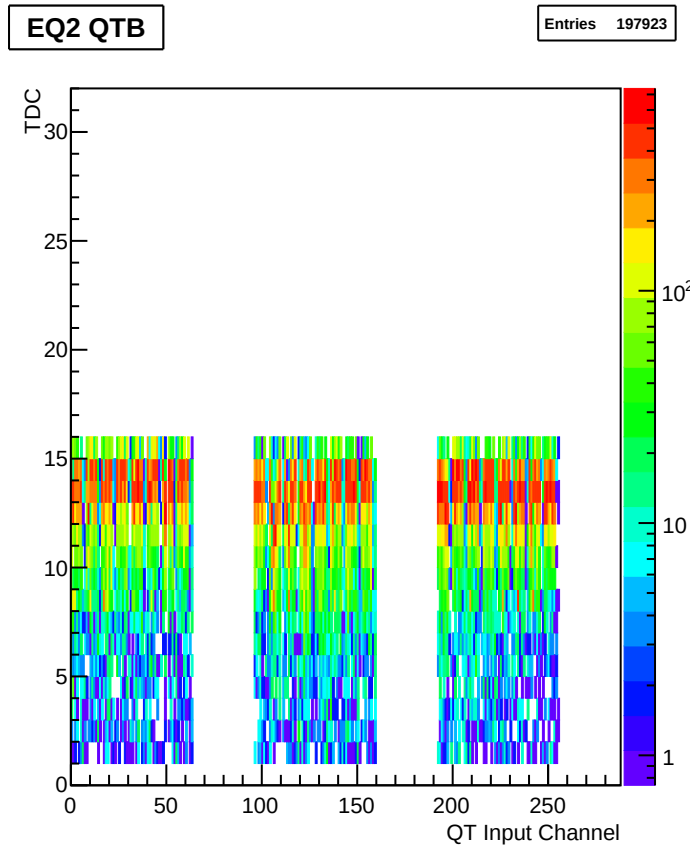

EQ1 QTB
Entries 822816
ADC
QT Input Channel

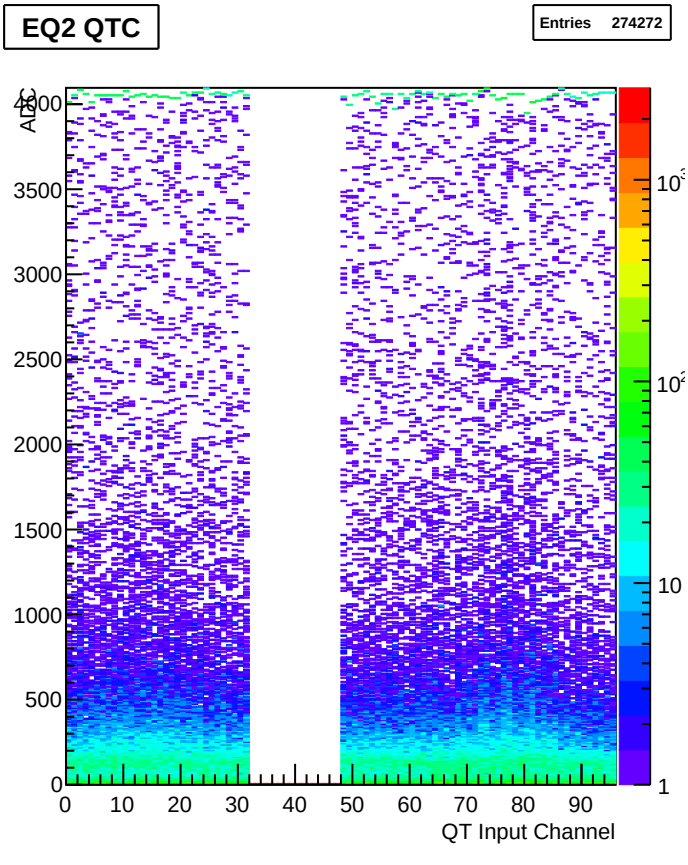

EQ1 QTB
Entries 215311
TDC
QT Input Channel

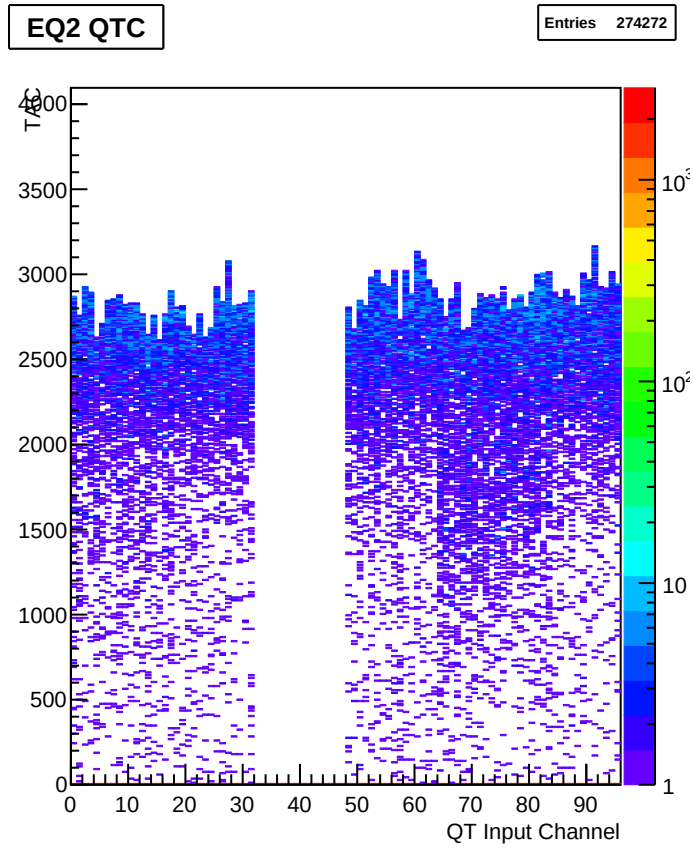

EQ1 QTC
Entries 274272
ADC
QT Input Channel

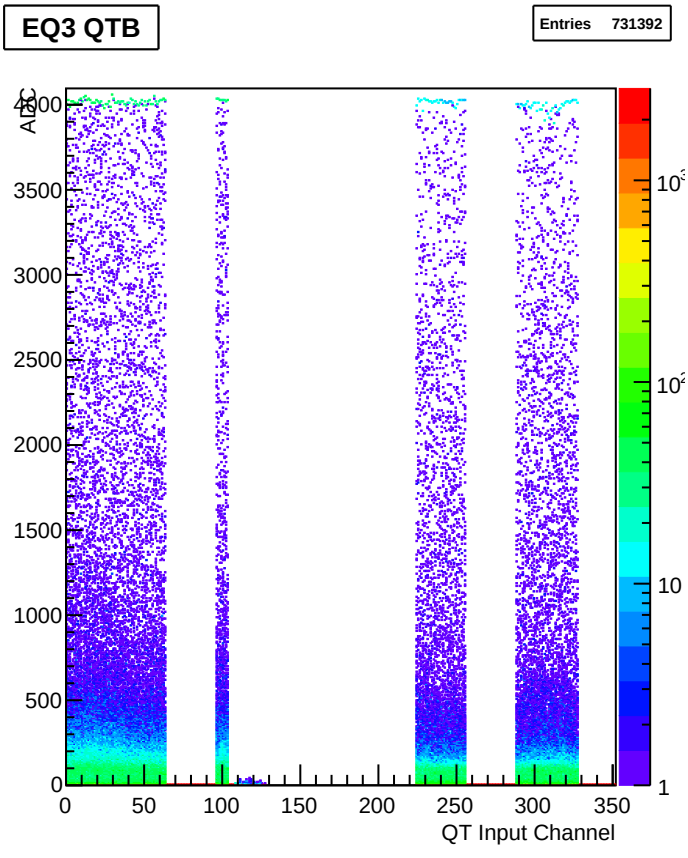

EQ1 QTC
Entries 274272
TADC
QT Input Channel

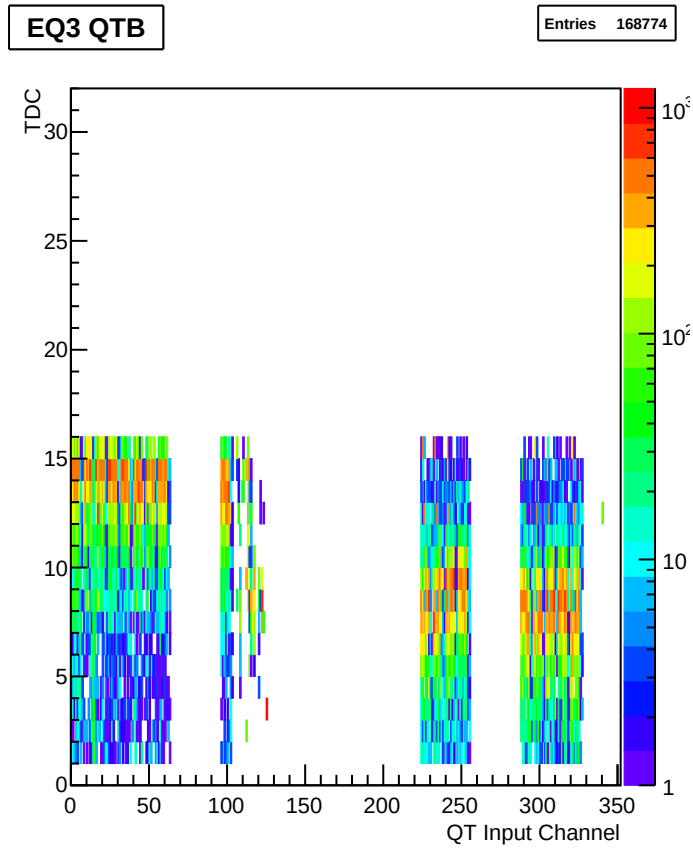

EQ2 QTB
Entries 822816
ADC
QT Input Channel

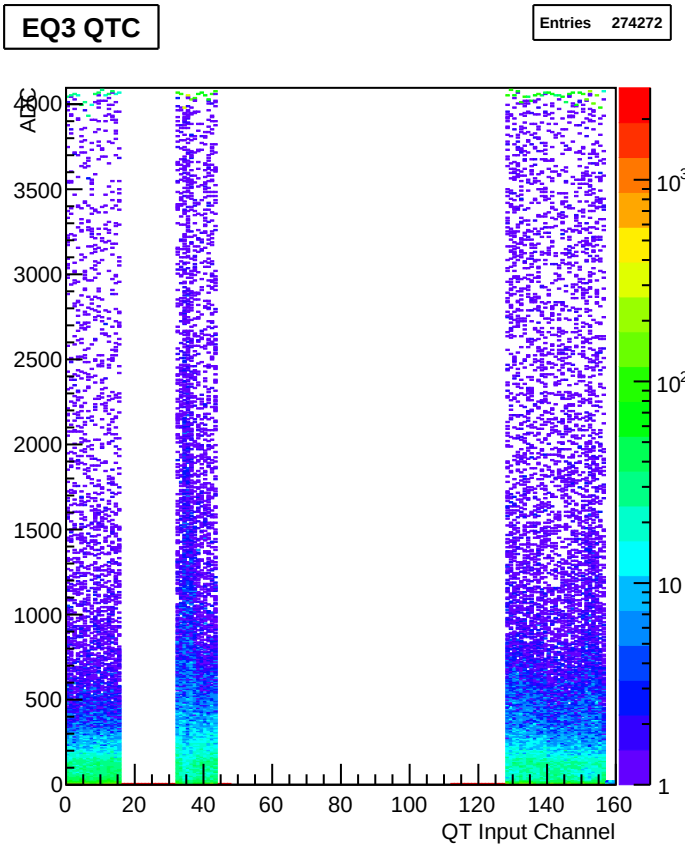

EQ2 QTB
Entries 197923
TDC
QT Input Channel

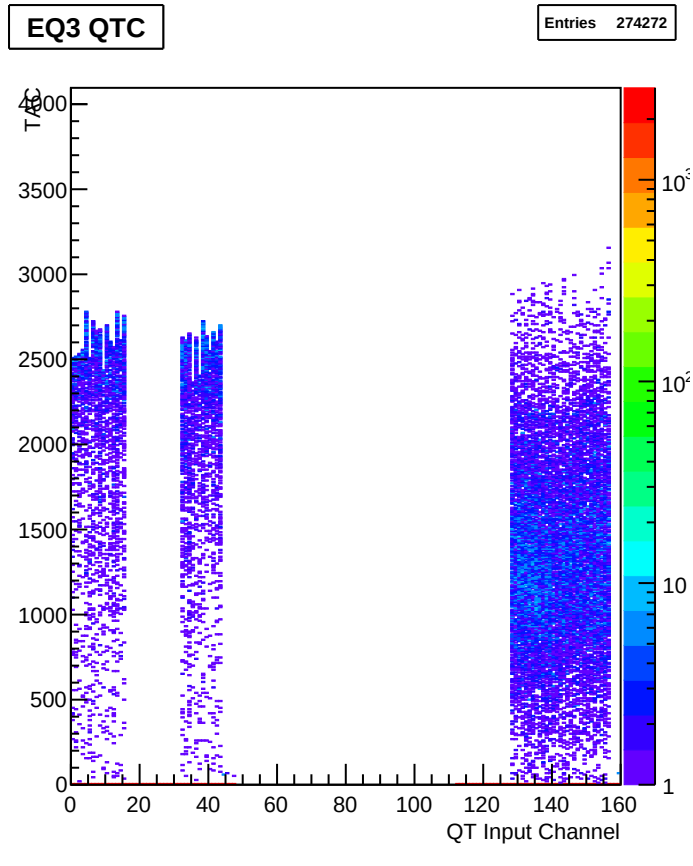

EQ2 QTC
Entries 274272
ADC
QT Input Channel

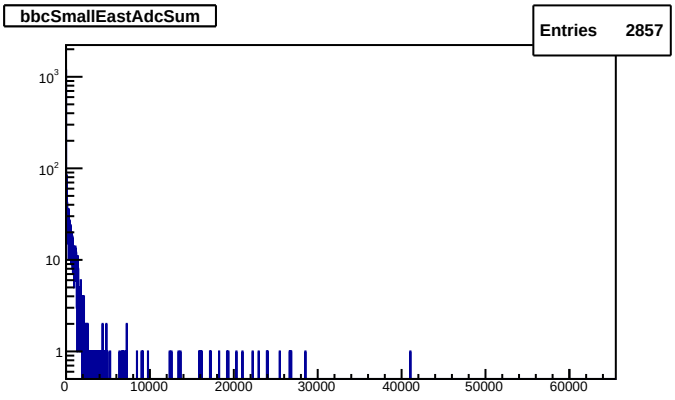

EQ2 QTC
Entries 274272
TADC
QT Input Channel

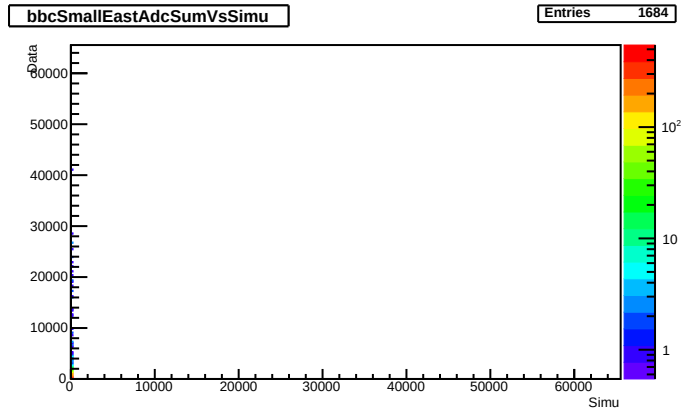

EQ3 QTB
Entries 731392
ADC
QT Input Channel

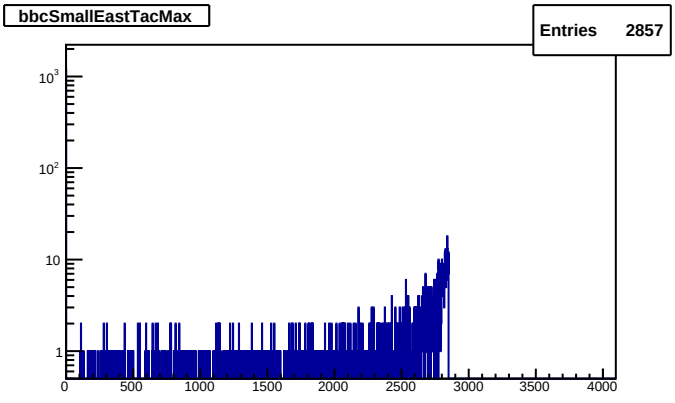

EQ3 QTB
Entries 168774
TDC
QT Input Channel

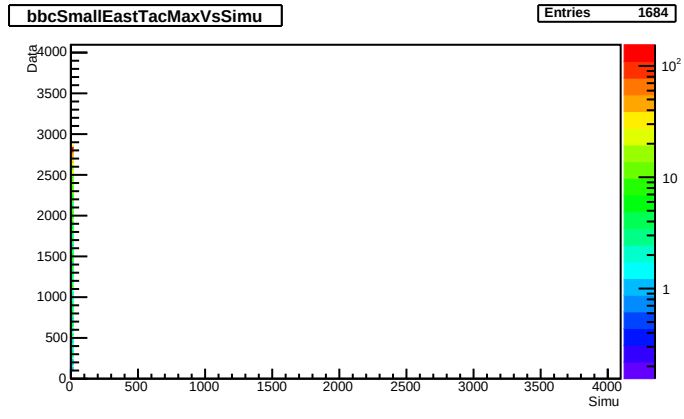

EQ3 QTC
Entries 274272
ADC
QT Input Channel

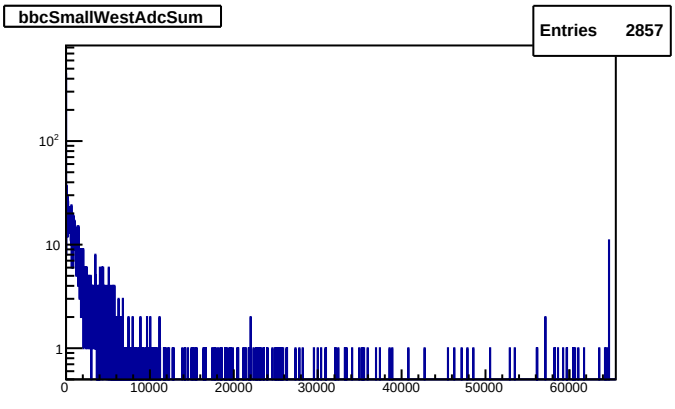

EQ3 QTC
Entries 274272
TADC
QT Input Channel

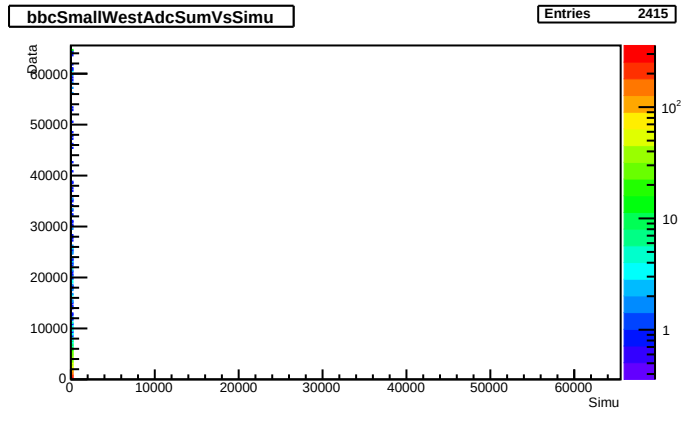

bbcSmallEastAdcSum
Entries 2857

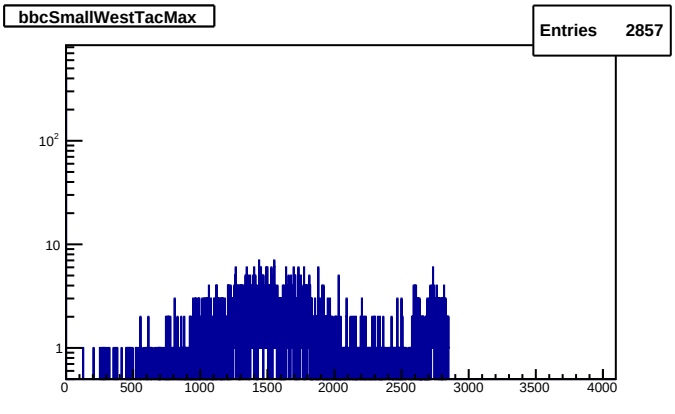

bbcSmallEastAdcSumVsSimu
Entries 1684
Data
Simu

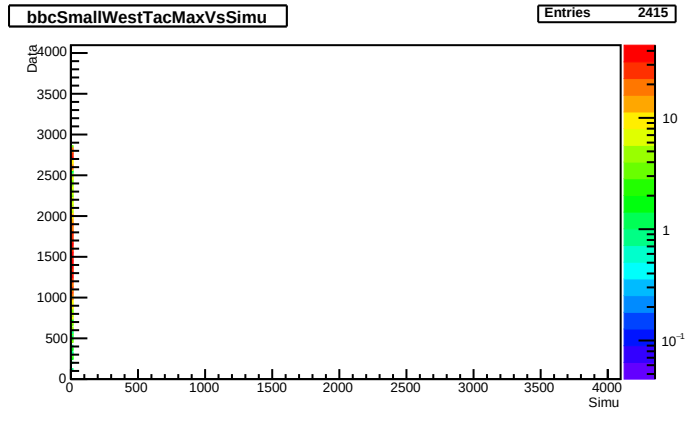

bbcSmallEastTacMax
Entries 2857

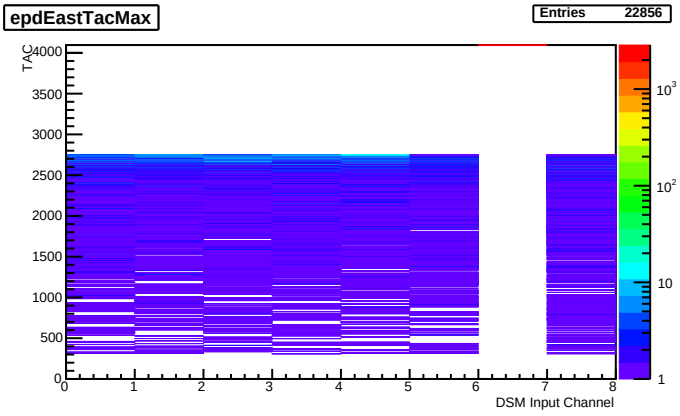

bbcSmallEastTacMaxVsSimu
Entries 1684
Data
Simu

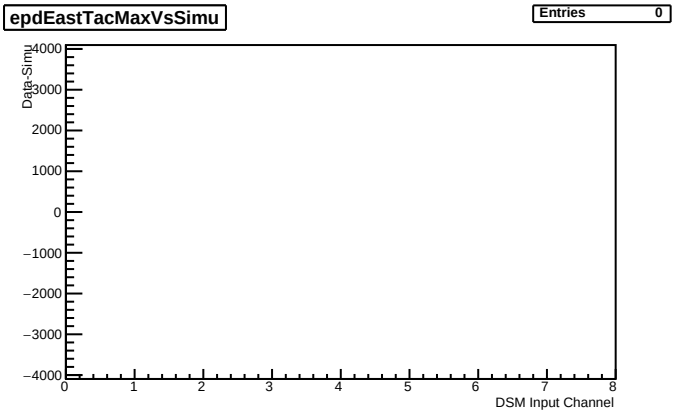

bbcSmallWestAdcSum
Entries 2857

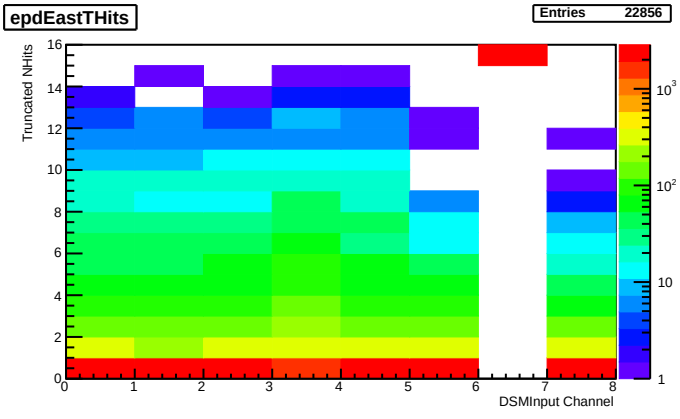

bbcSmallWestAdcSumVsSimu
Entries 2415
Data
Simu

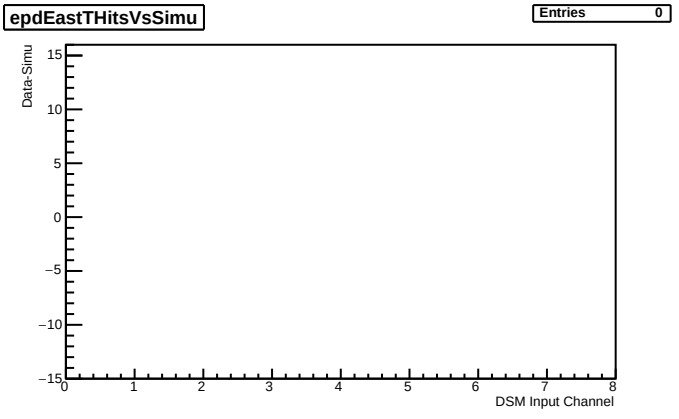

bbcSmallWestTacMax
Entries 2857

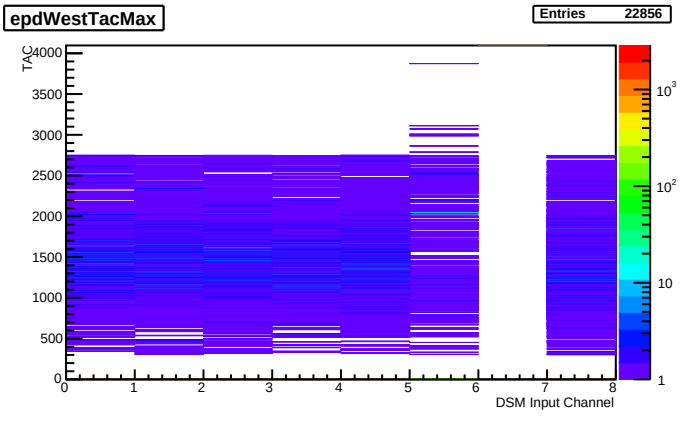

bbcSmallWestTacMaxVsSimu
Entries 2415
Data
Simu

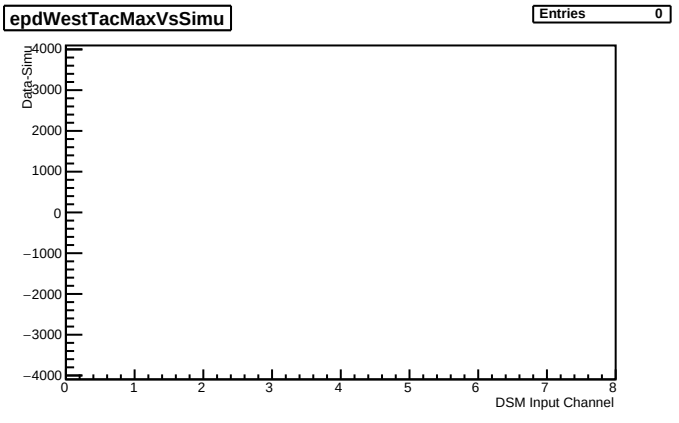

epdEastTacMax
Entries 22856
TAC
DSM Input Channel

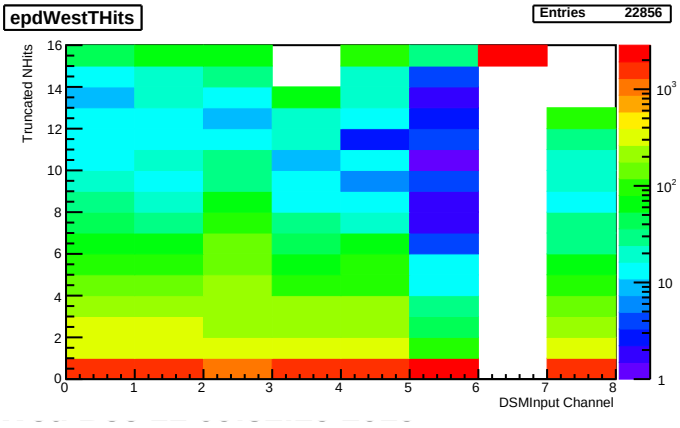

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

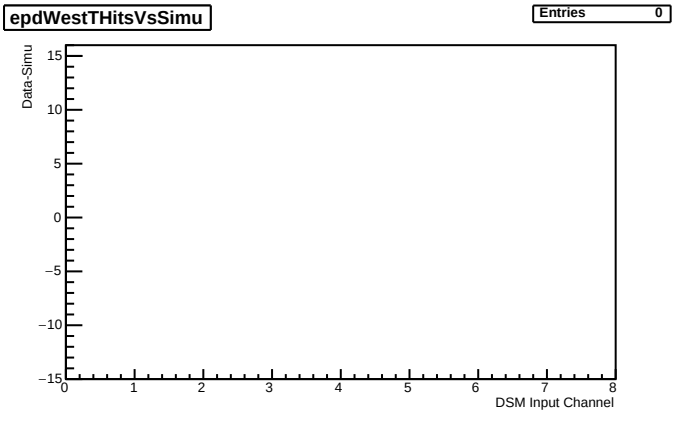

epdEastTHits
Entries 22856
Truncated NHits
DSMInput Channel

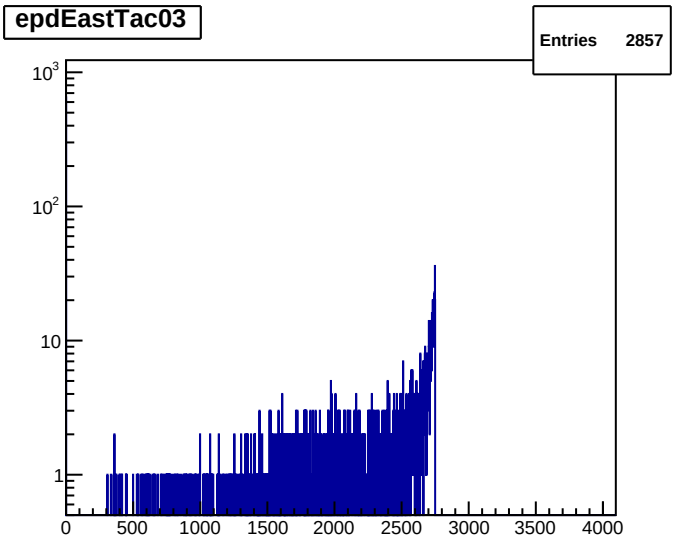

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

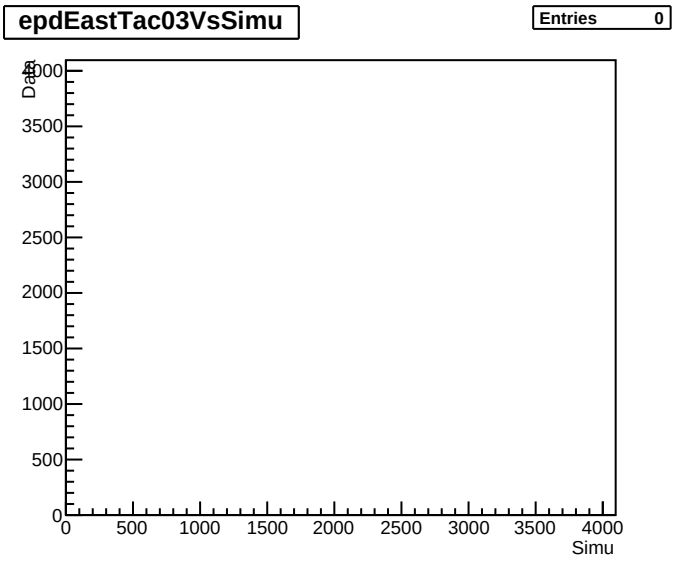

epdWestTacMax
Entries 22856
TAC
DSM Input Channel

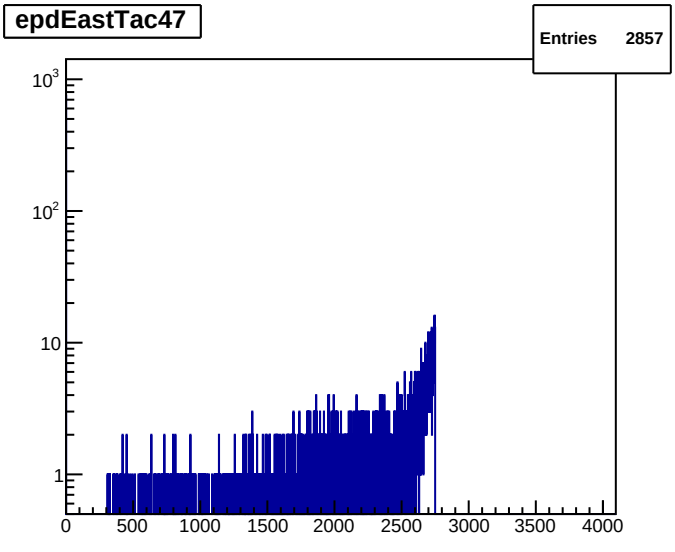

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

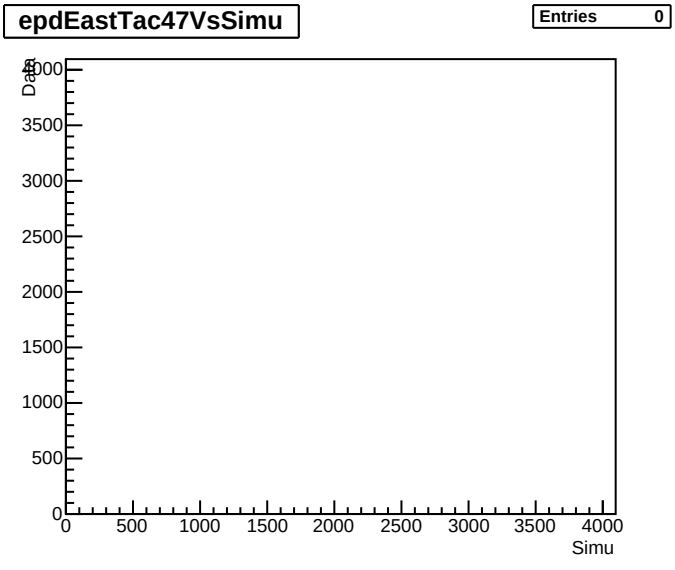

epdWestTHits
Entries 22856
Truncated NHits
DSMInput Channel

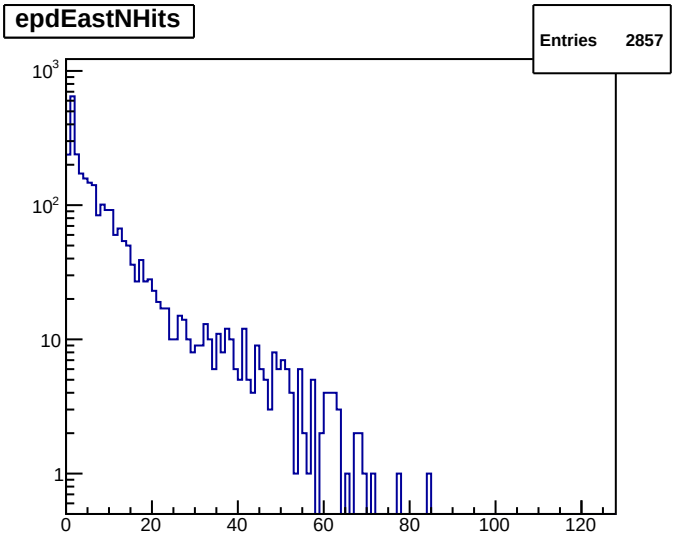

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

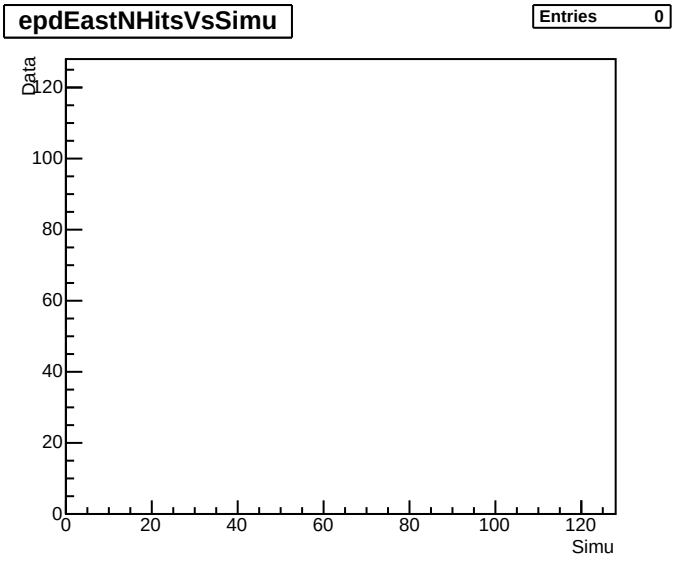

epdEastTac03
Entries 2857

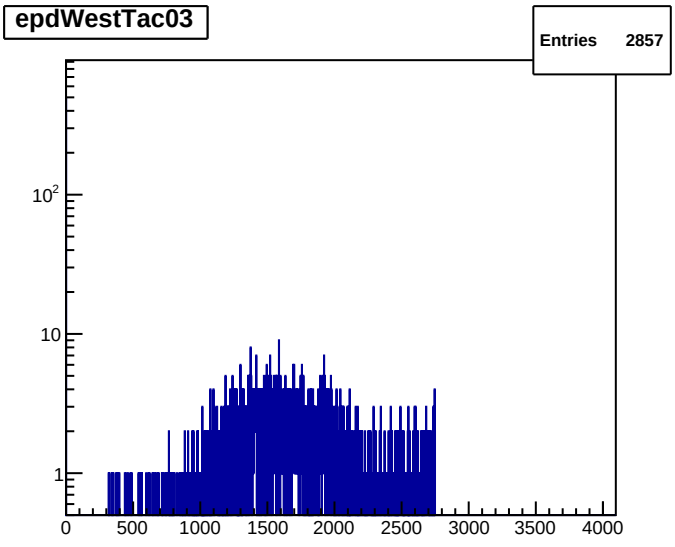

epdEastTac03VsSimu
Entries 0
Data
Simu

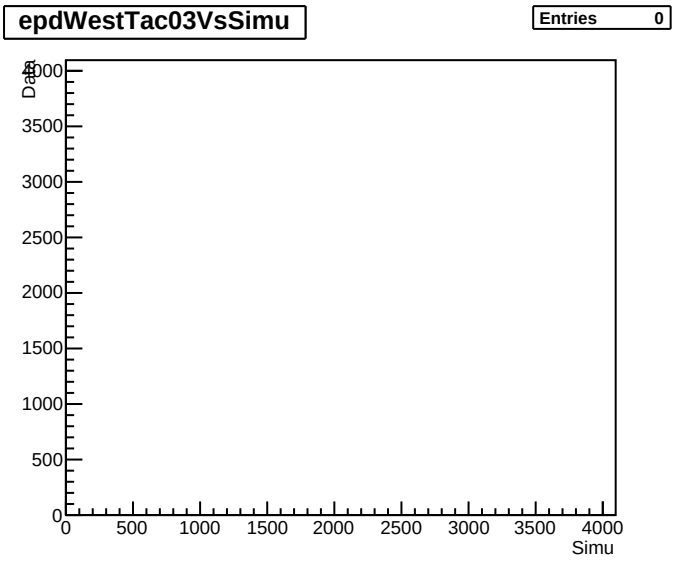

epdEastTac47
Entries 2857

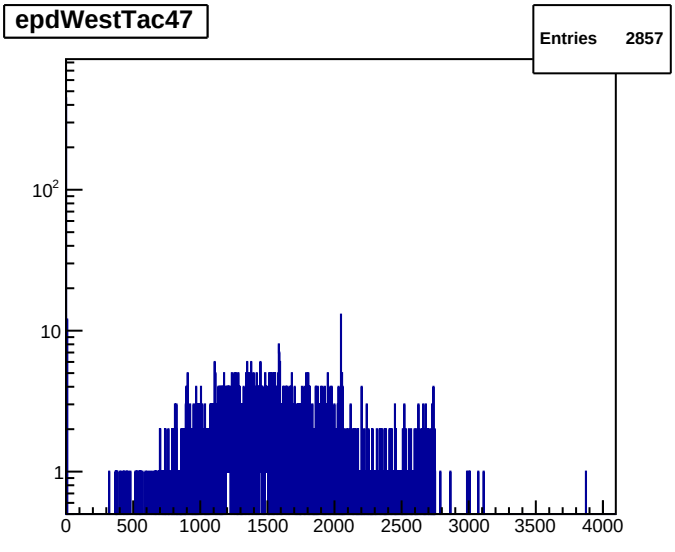

epdEastTac47VsSimu
Entries 0
Data
Simu

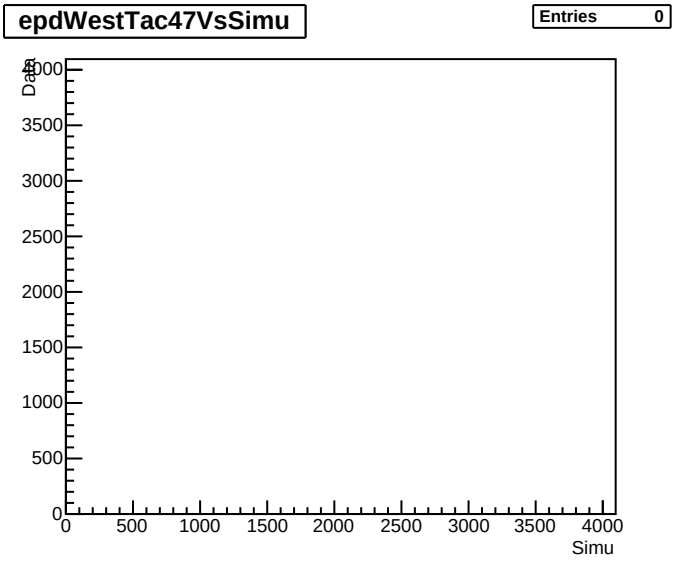

epdEastNHits
Entries 2857

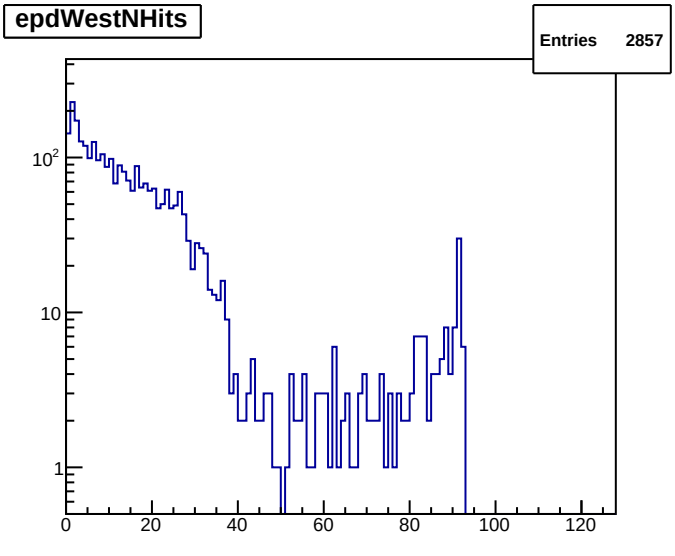

epdEastNHitsVsSimu
Entries 0
Data
Simu

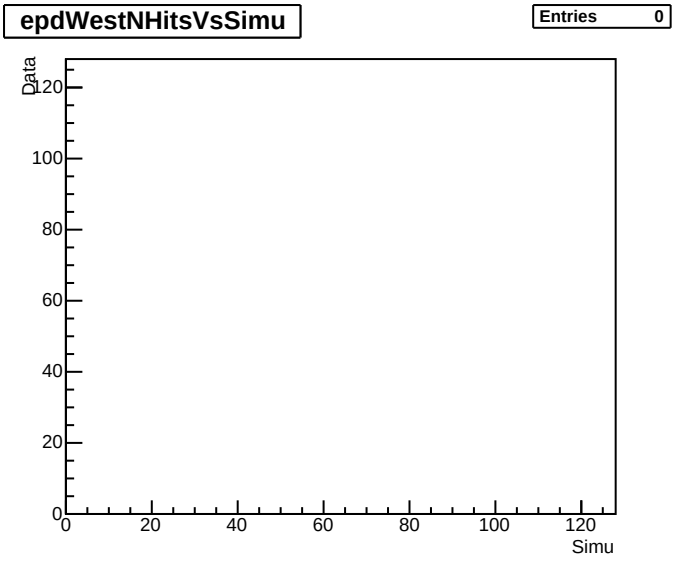

epdWestTac03
Entries 2857
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

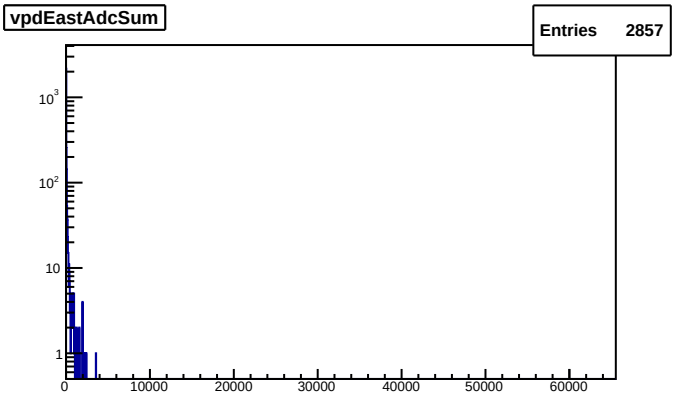

epdWestTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

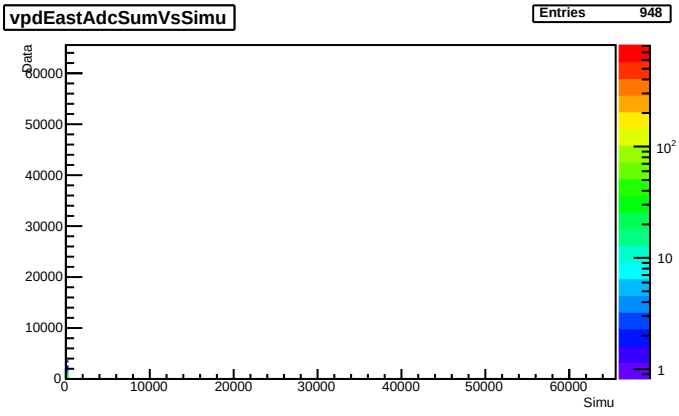

epdWestTac47
Entries 2857
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

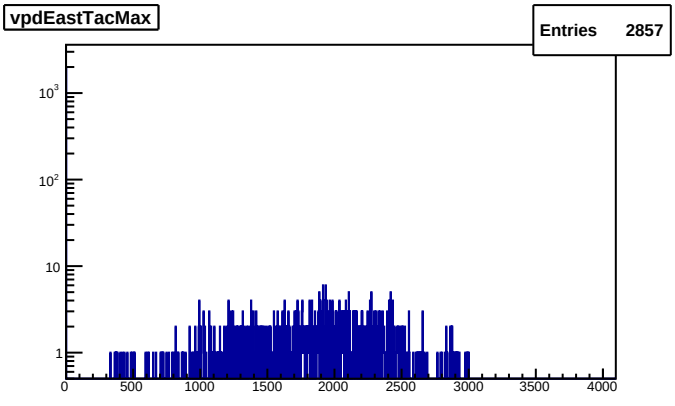

epdWestTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

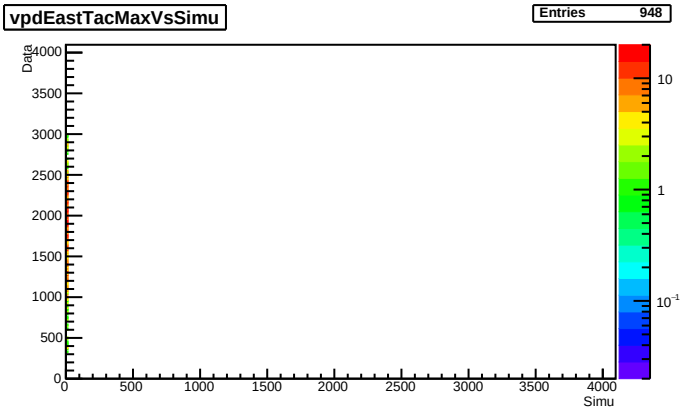

epdWestNHits
Entries 2857
10^2
10
1
0 20 40 60 80 100 120

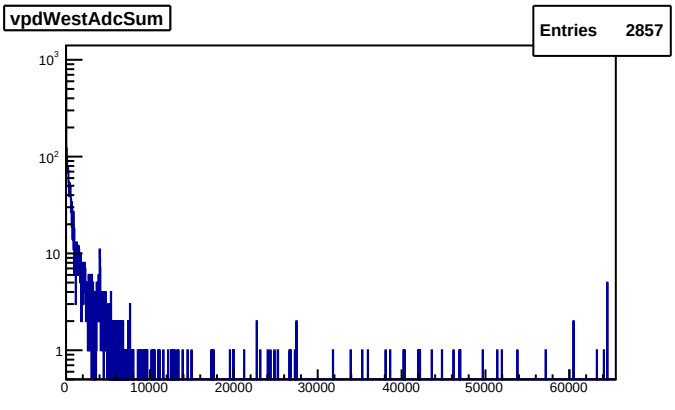

epdWestNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

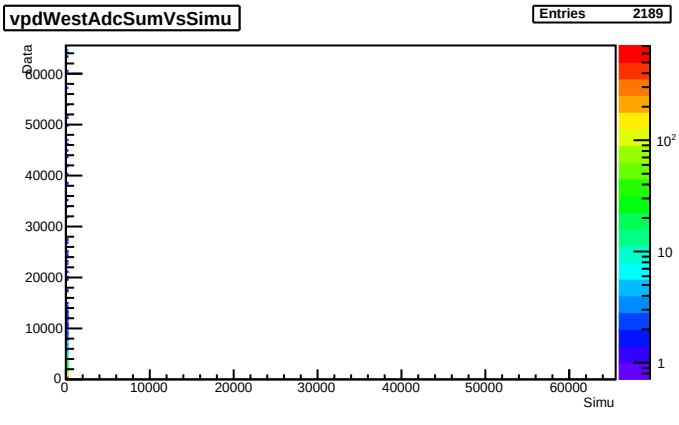

vpdEastAdcSum
Entries 2857

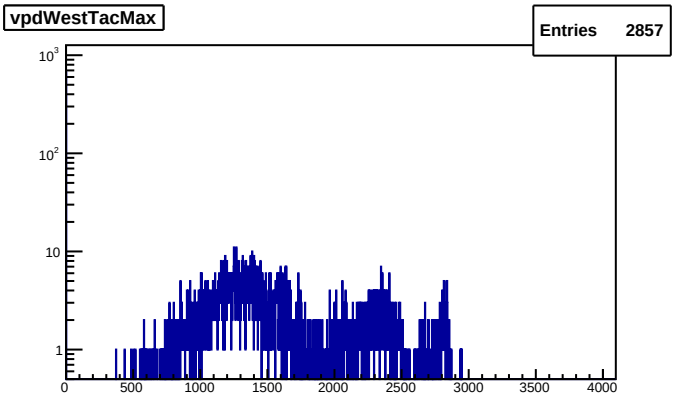

vpdEastAdcSumVsSimu
Entries 948
Data
Simu

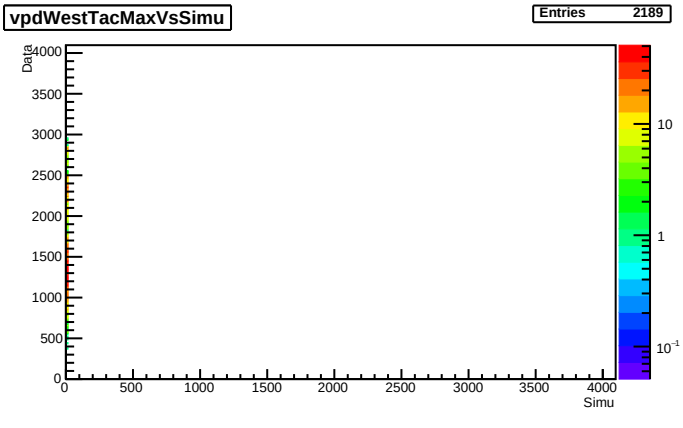

vpdEastTacMax
Entries 2857

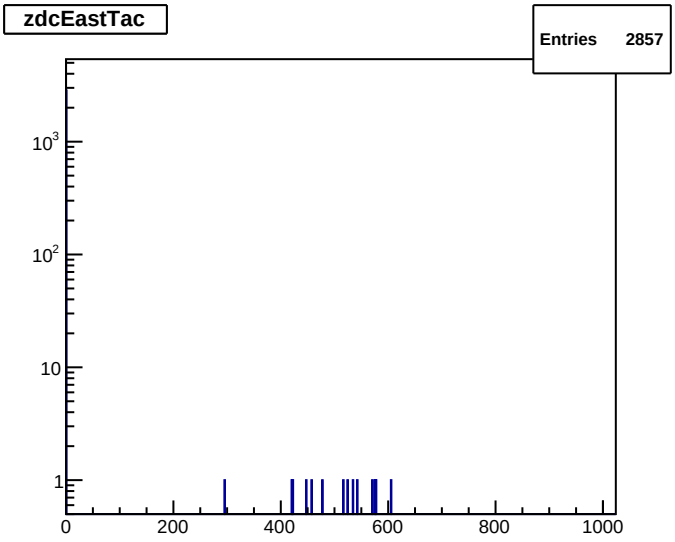

vpdEastTacMaxVsSimu
Entries 948
Data
Simu

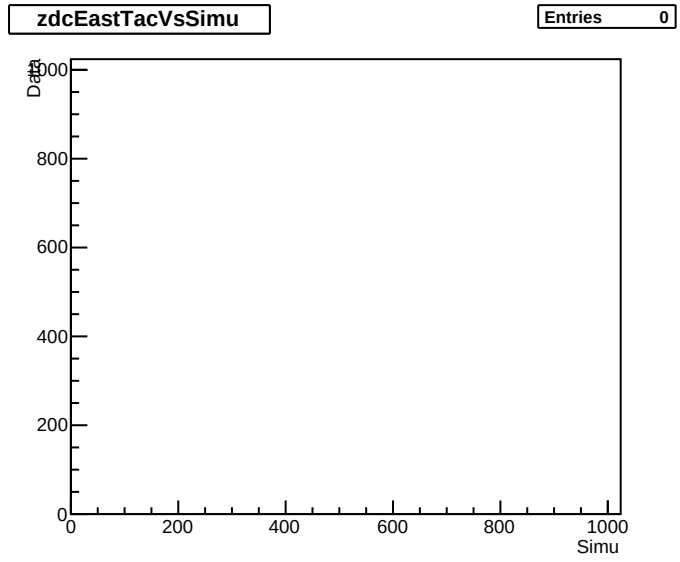

vpdWestAdcSum
Entries 2857

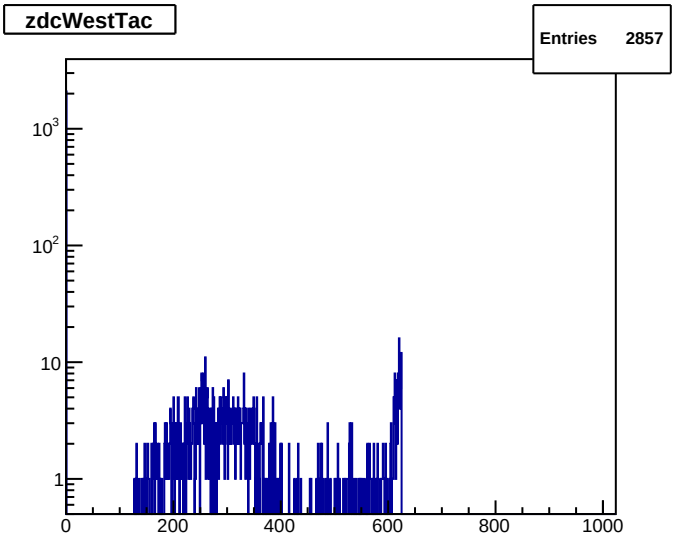

vpdWestAdcSumVsSimu
Entries 2189
Data
Simu

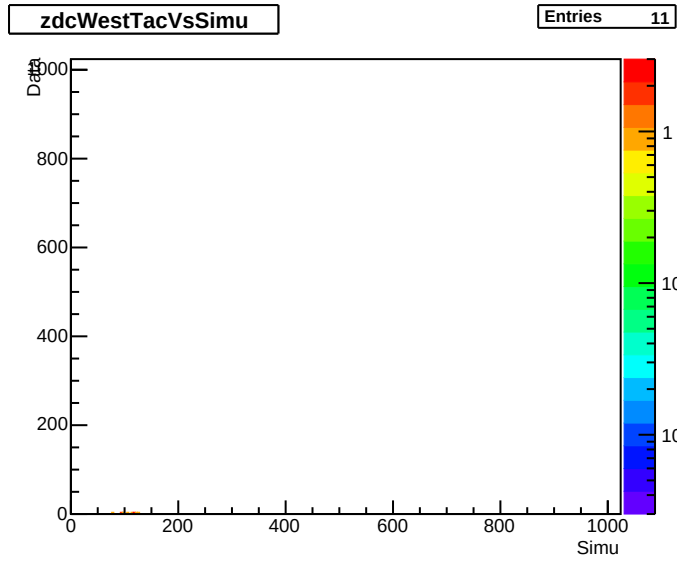

vpdWestTacMax
Entries 2857

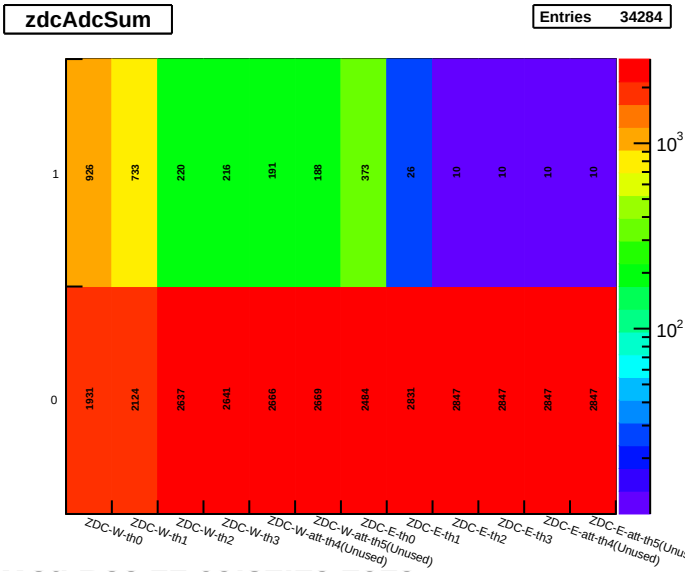

vpdWestTacMaxVsSimu
Entries 2189
Data
Simu

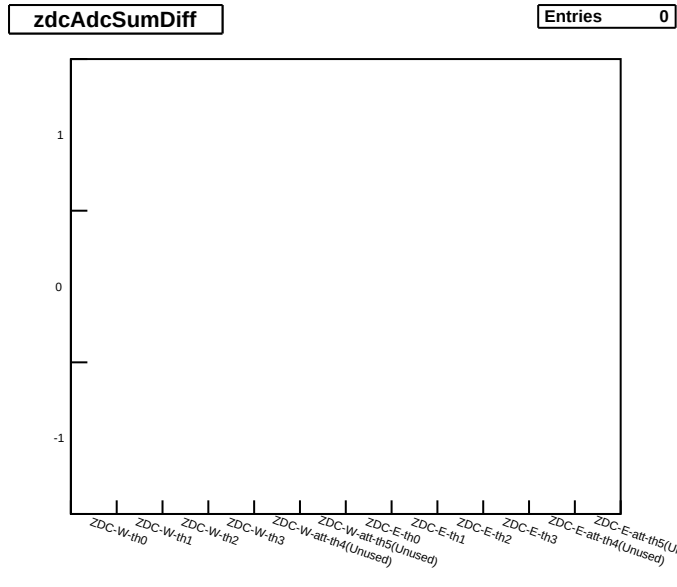

zdcEastTac
Entries 2857
10^3
10^2
10
1
0
200
400
600
800
1000

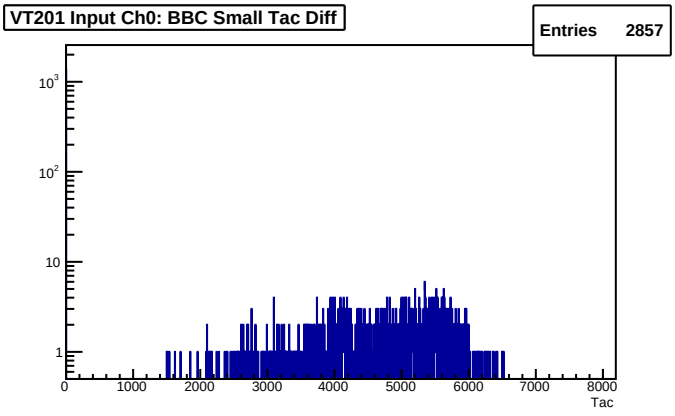

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

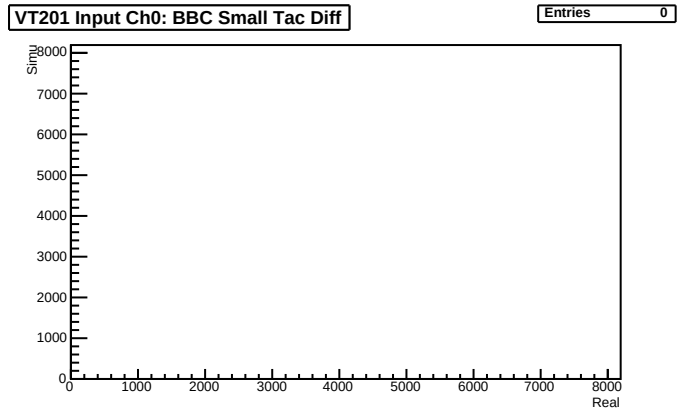

zdcWestTac
Entries 2857
10^3
10^2
10
1
0
200
400
600
800
1000

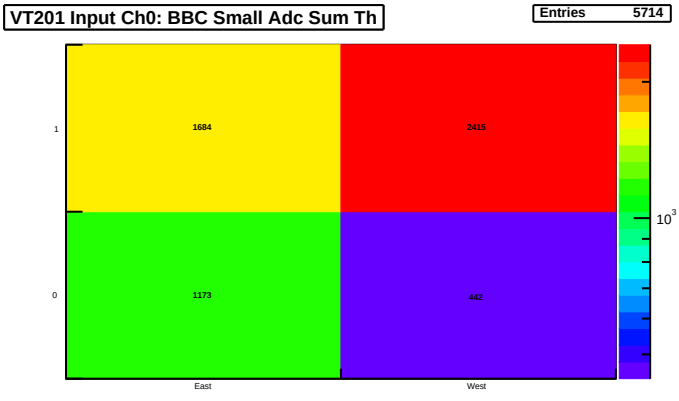

zdcWestTacVsSimu
Entries 11
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu
1
10^{-1}
10^{-2}

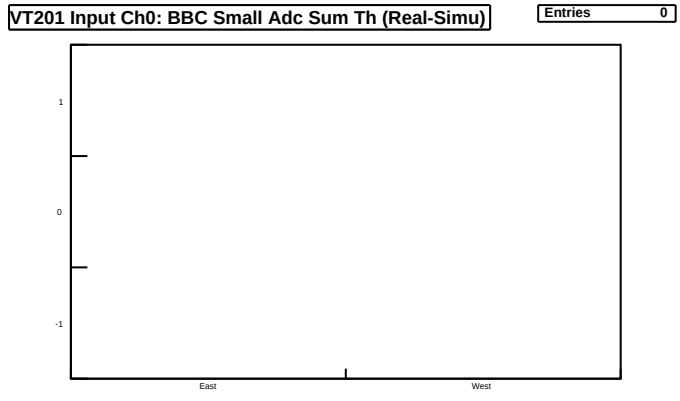

zdcAdcSum
Entries 34284
1
0
926
733
220
216
191
188
373
26
10
10
10
10
1931
2124
2637
2641
2656
2659
2484
2831
2847
2847
2847
2847
10^3
10^2
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

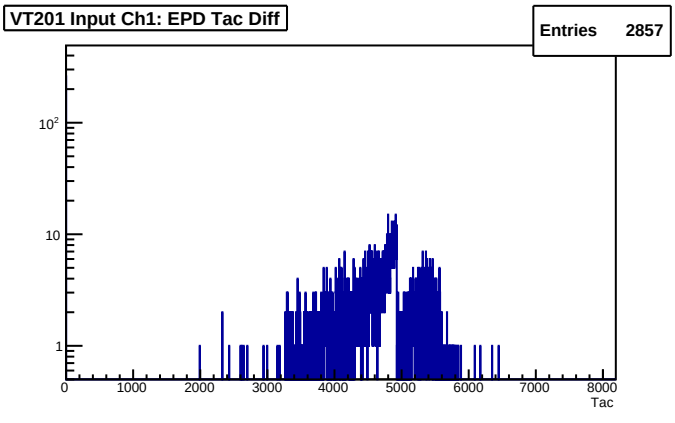

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

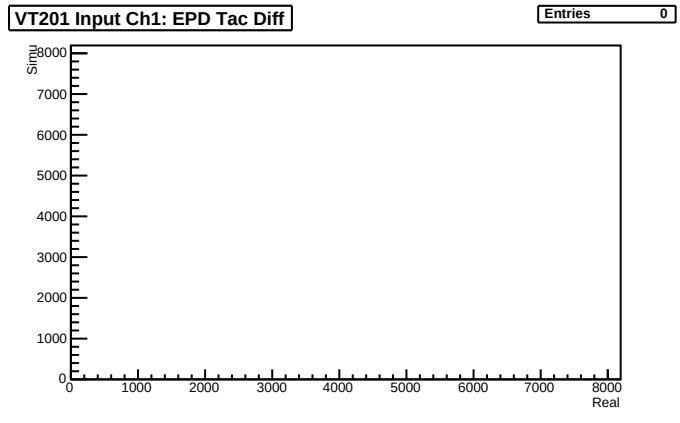

VT201 Input Ch0: BBC Small Tac Diff
Entries 2857
Tac

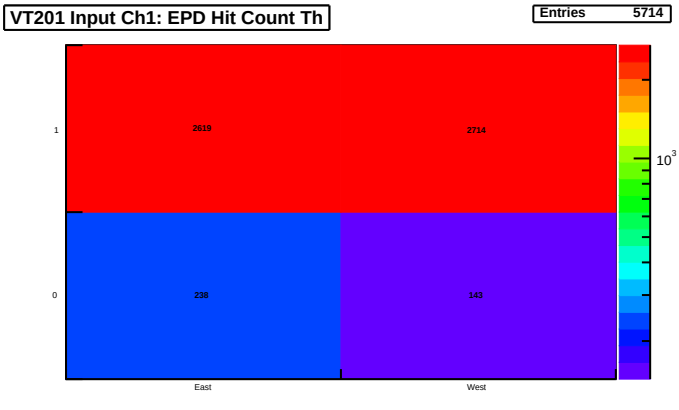

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

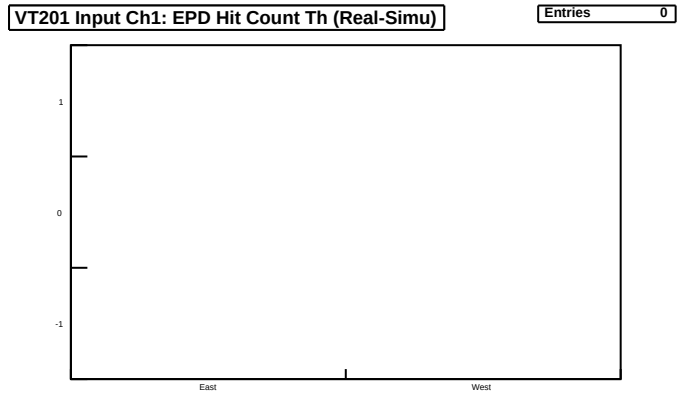

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 5714
1684
2415
1173
442
East
West

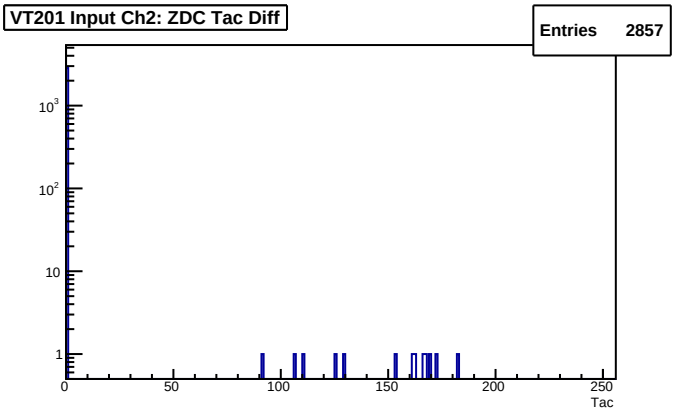

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

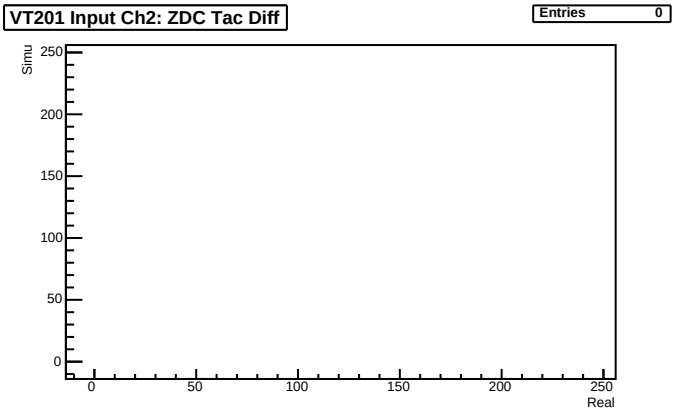

VT201 Input Ch1: EPD Tac Diff
Entries 2857
Tac

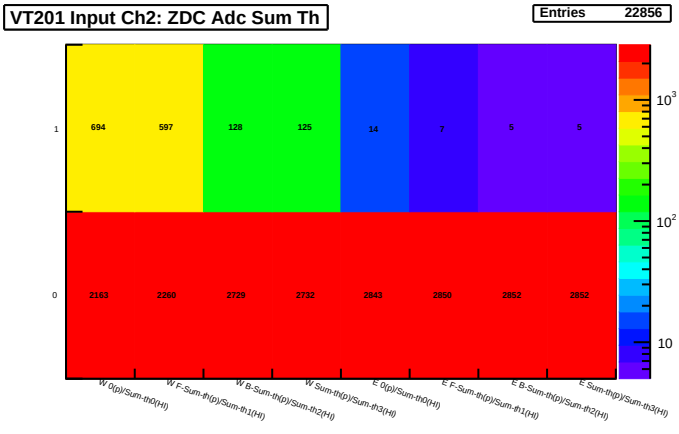

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

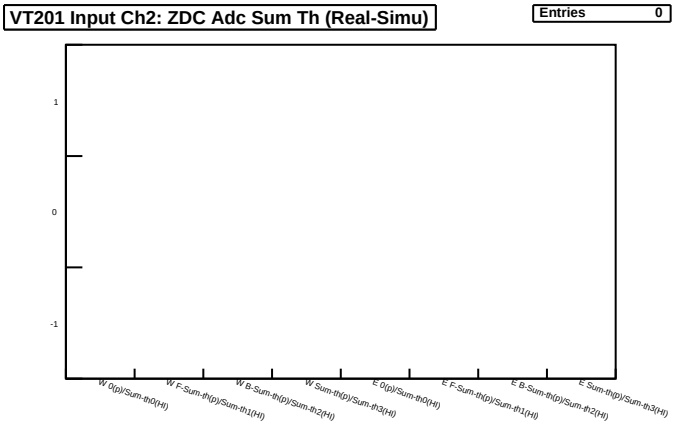

VT201 Input Ch1: EPD Hit Count Th
Entries 5714
2619
2714
238
143
East
West

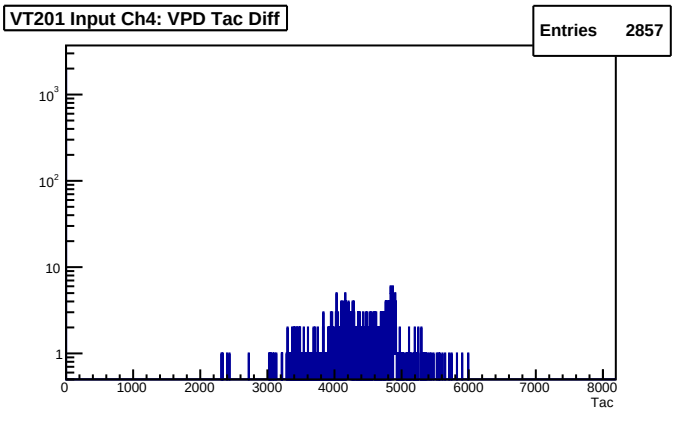

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

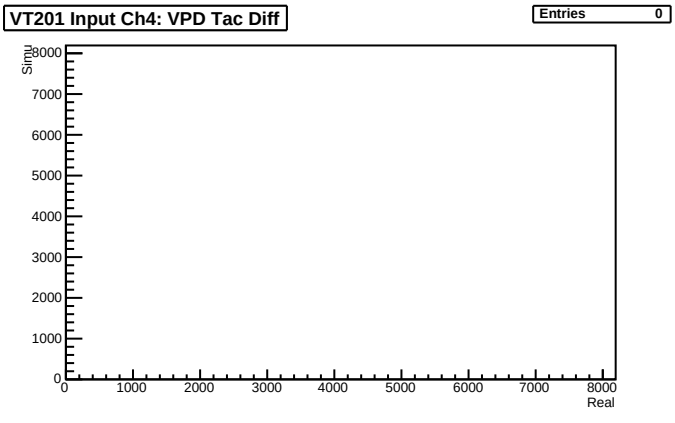

VT201 Input Ch2: ZDC Tac Diff
Entries 2857
Tac

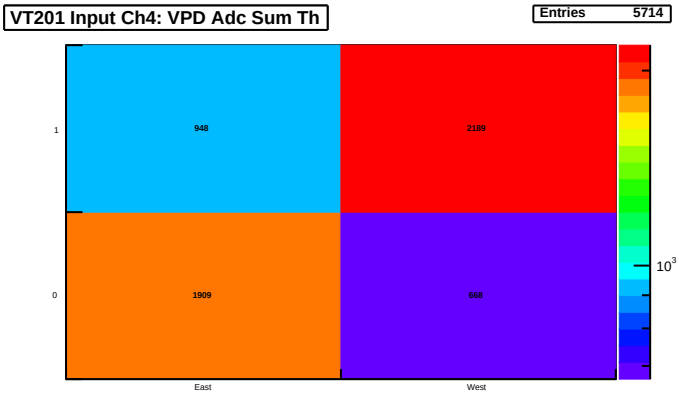

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

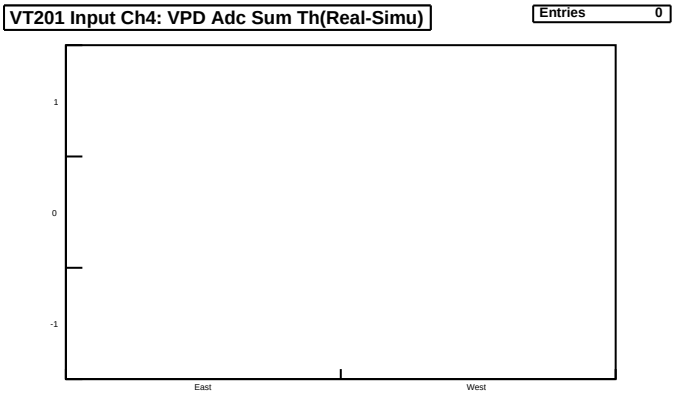

VT201 Input Ch2: ZDC Adc Sum Th
Entries 22856
694 597 128 125 14 7 5 5
2163 2260 2729 2732 2843 2850 2852 2852
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

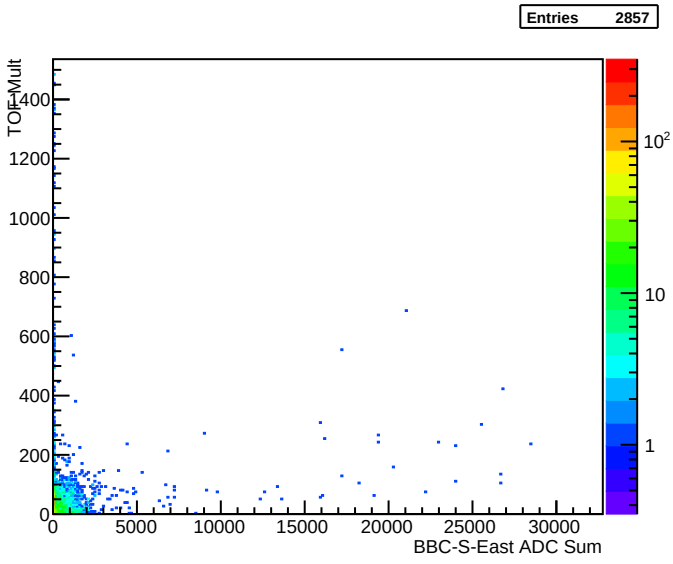

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

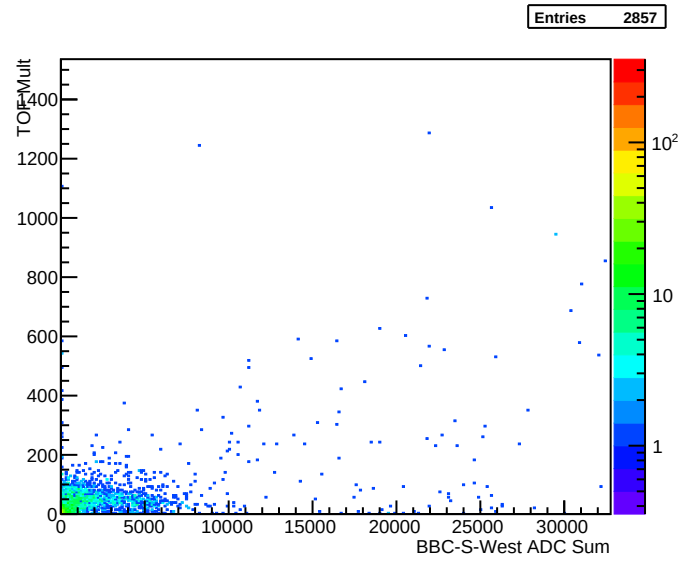

VT201 Input Ch4: VPD Tac Diff
Entries 2857
Tac

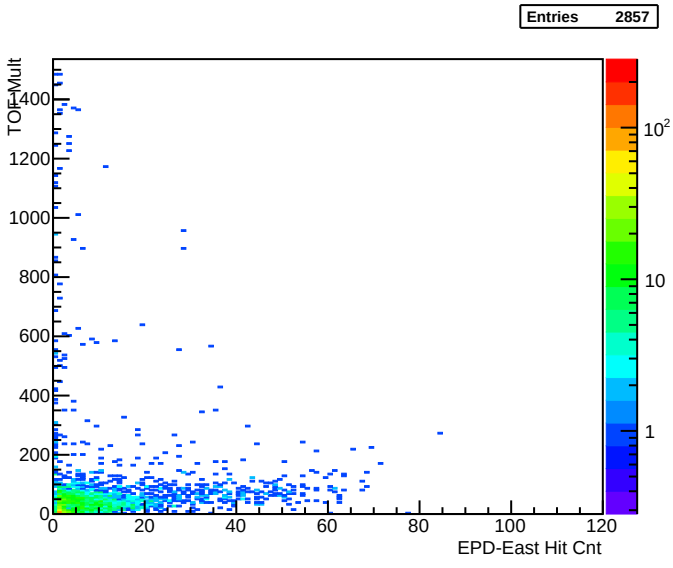

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

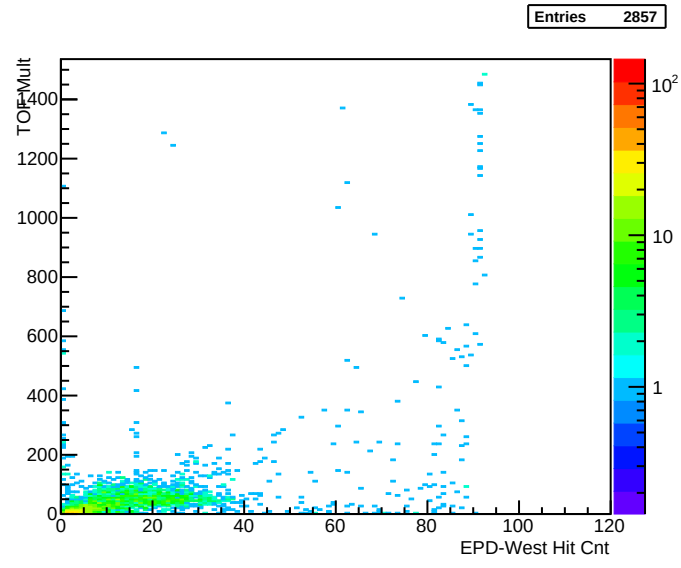

VT201 Input Ch4: VPD Adc Sum Th
Entries 5714
948 2189
1909 668
East
West

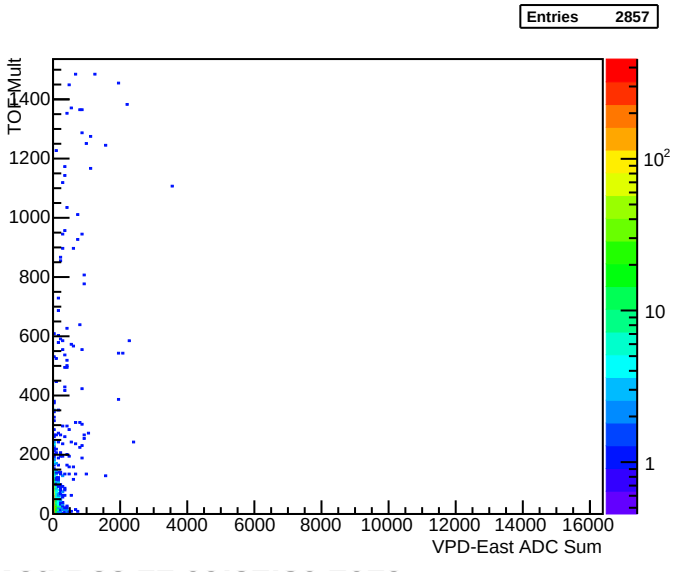

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

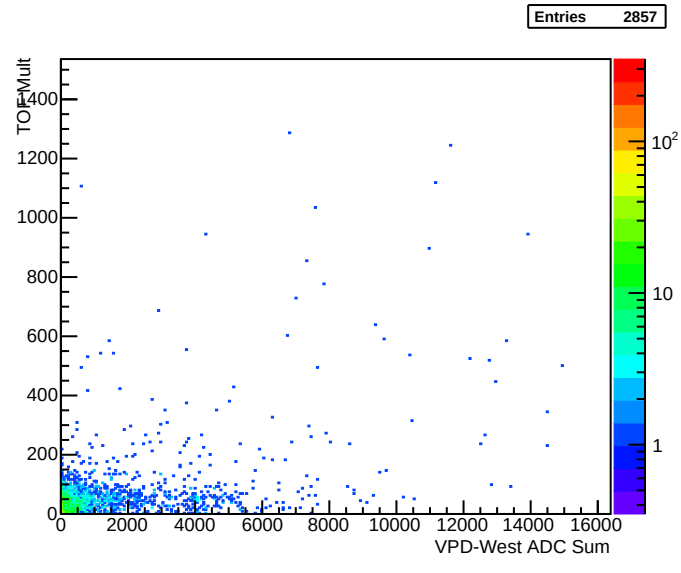

Entries 2857
TOF-Mult
BBC-S-East ADC Sum

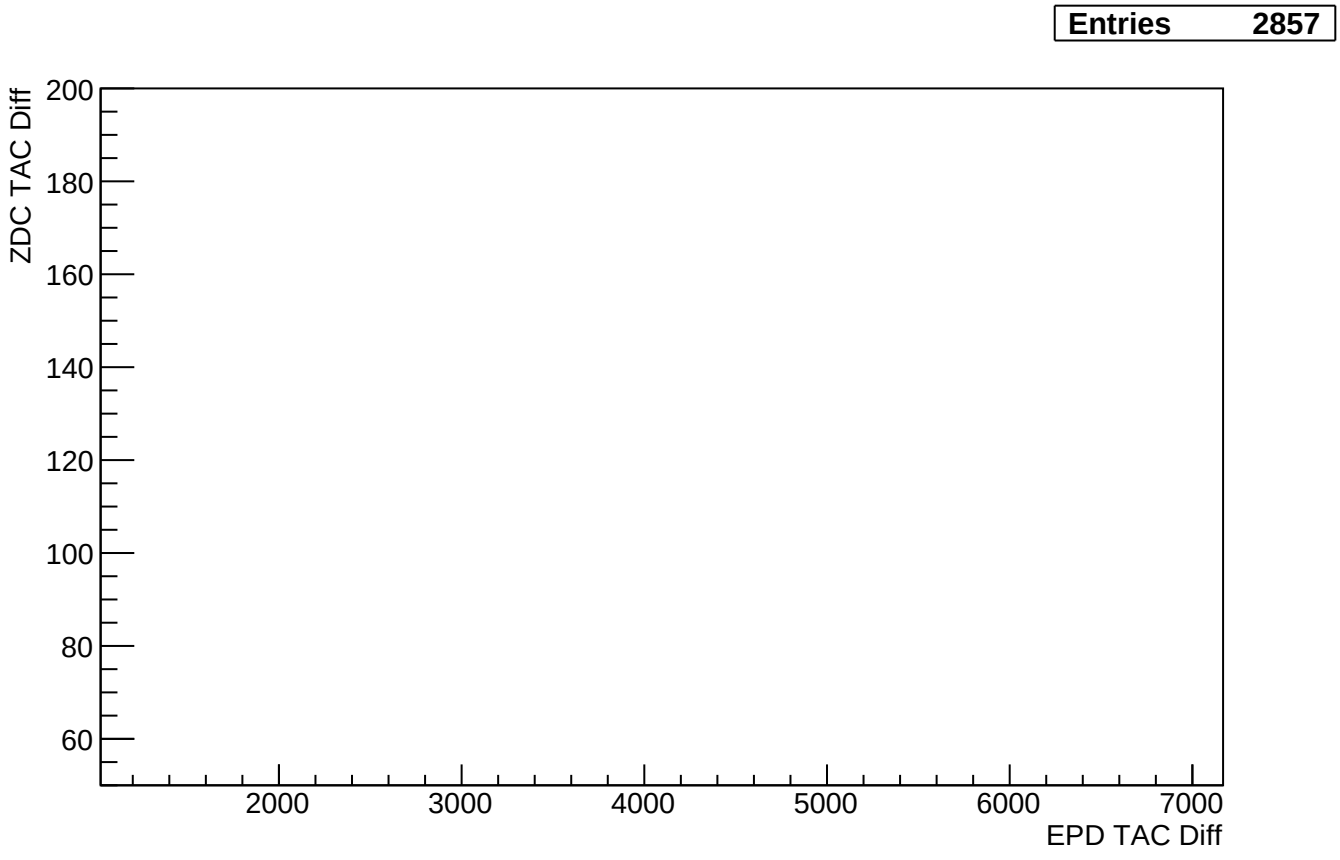

Entries 2857
TOF-Mult
BBC-S-West ADC Sum

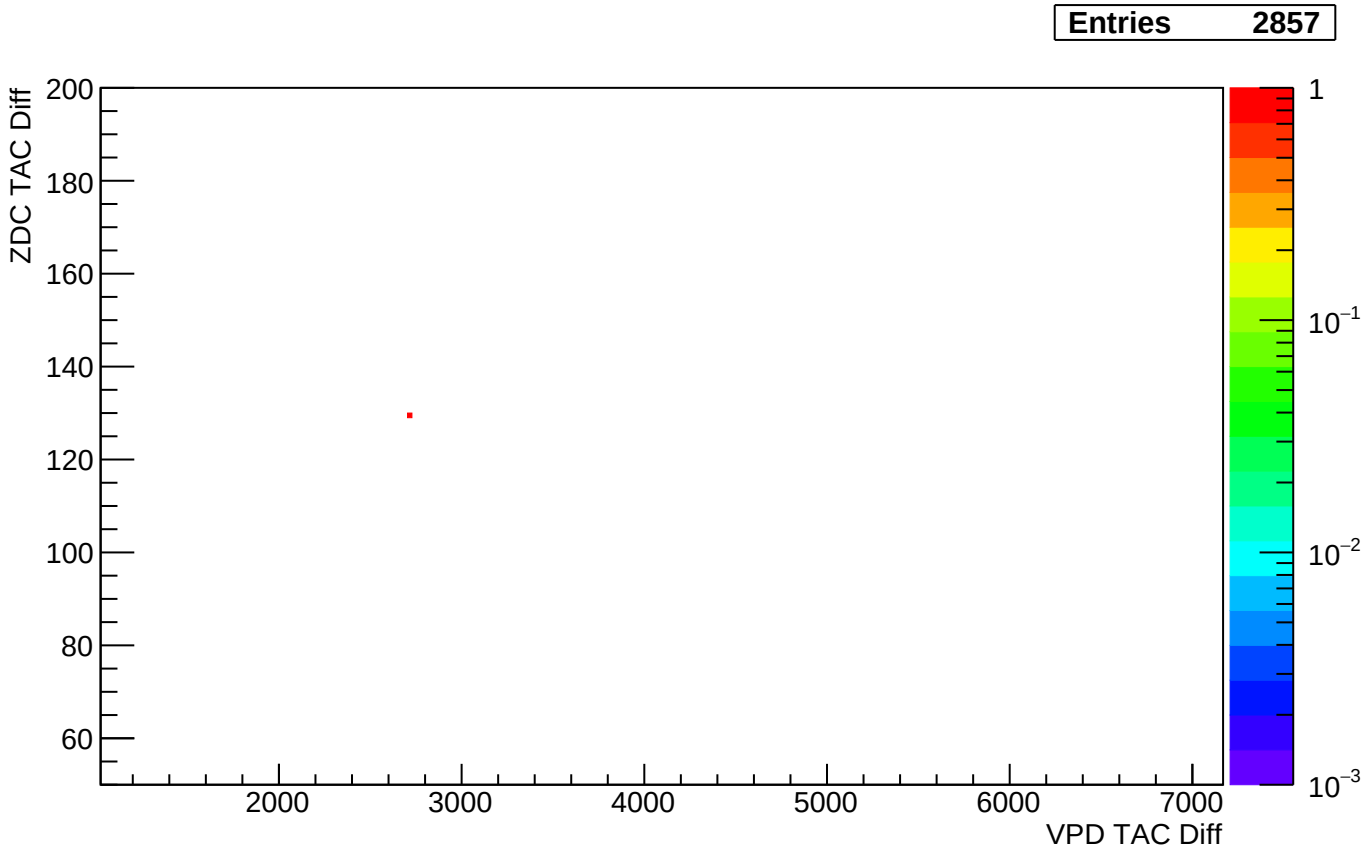

Entries 2857
TOF-Mult
EPD-East Hit Cnt

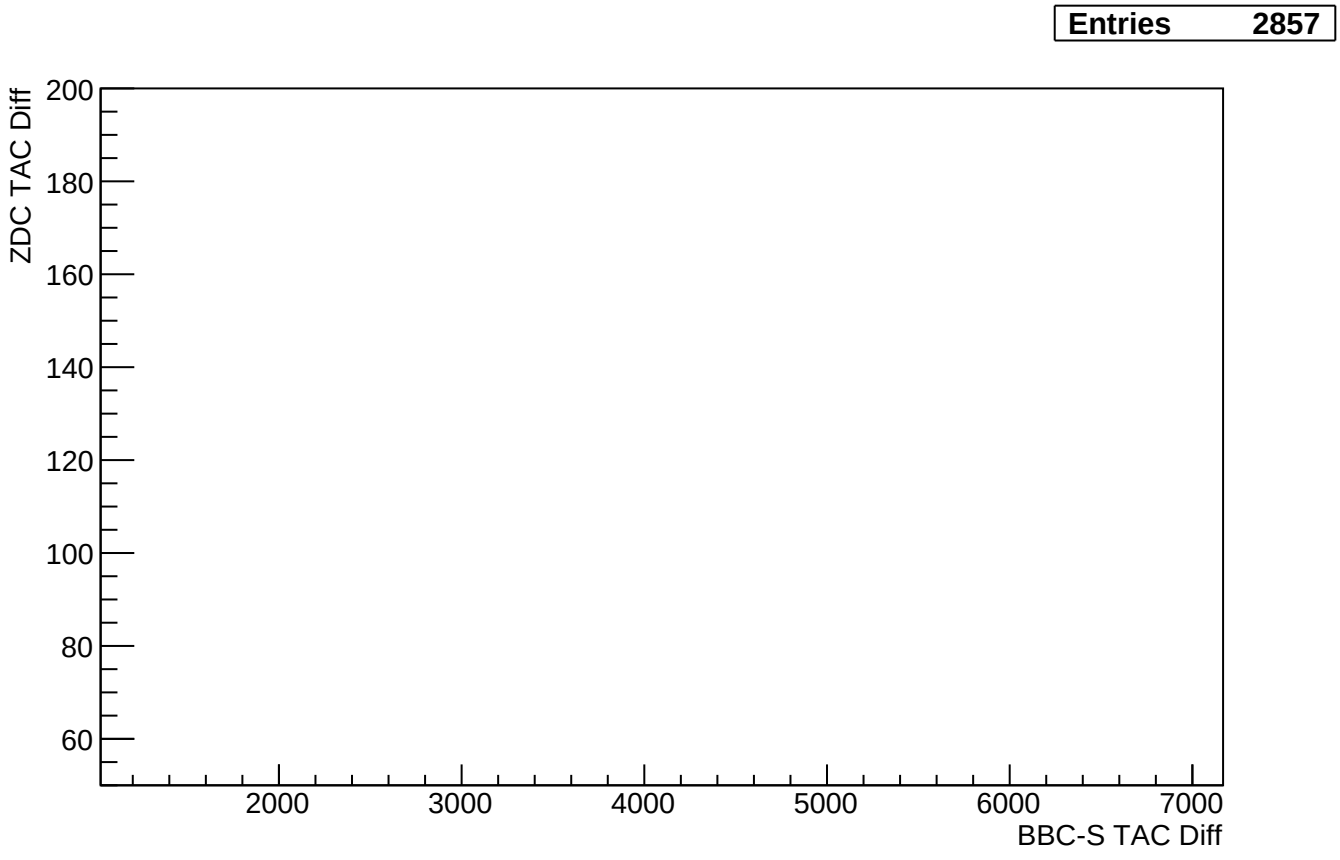

Entries 2857
TOF-Mult
EPD-West Hit Cnt

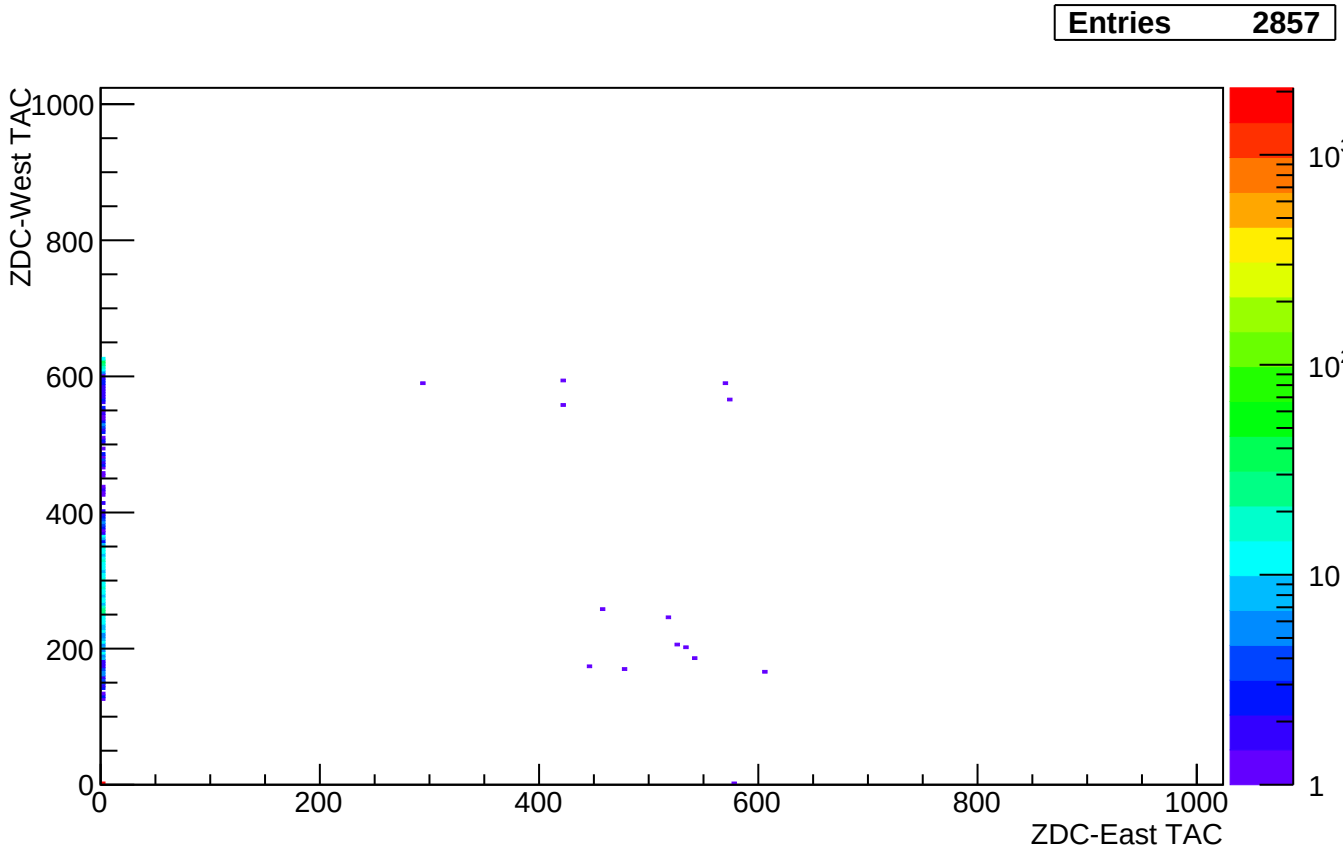

Entries 2857
TOF-Mult
VPD-East ADC Sum

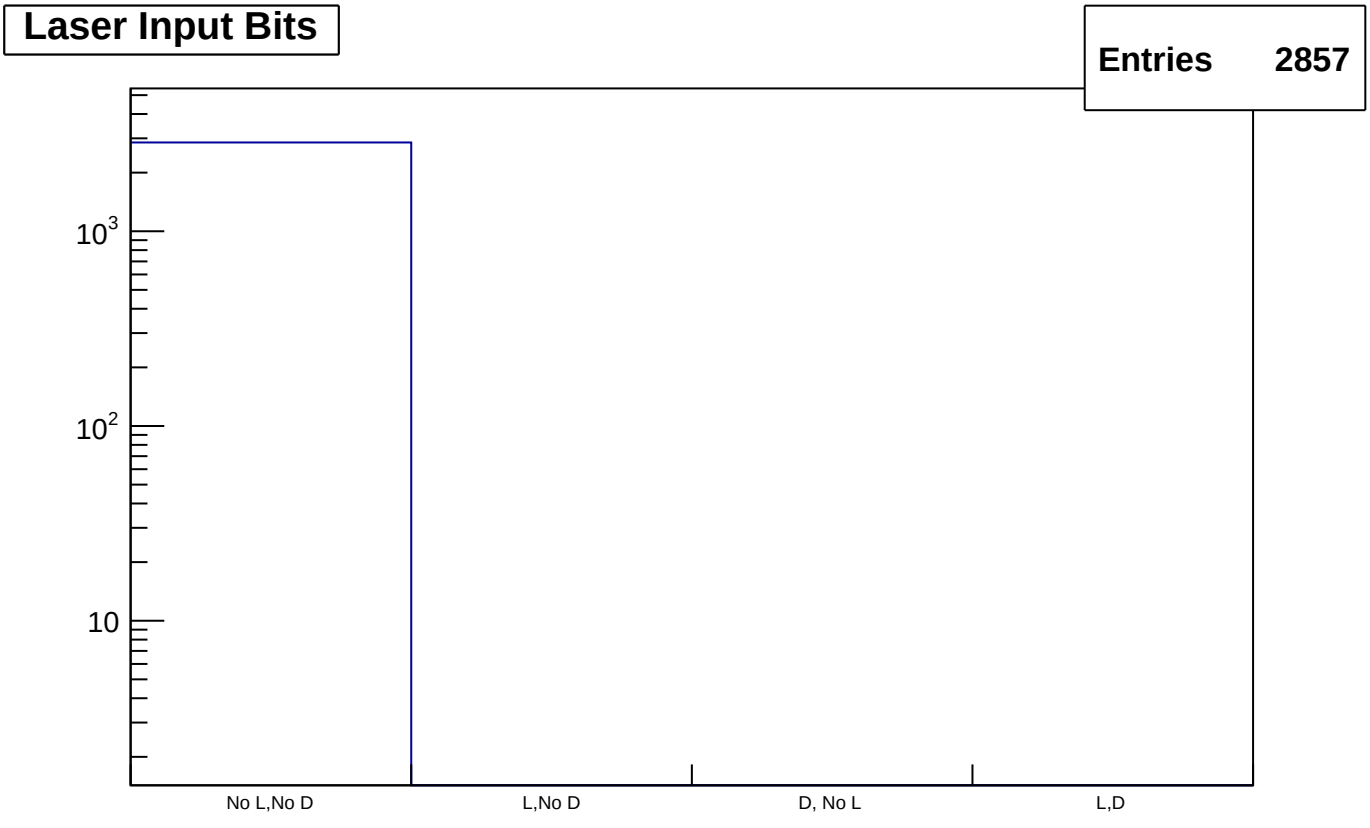

Entries 2857
TOF-Mult
VPD-West ADC Sum

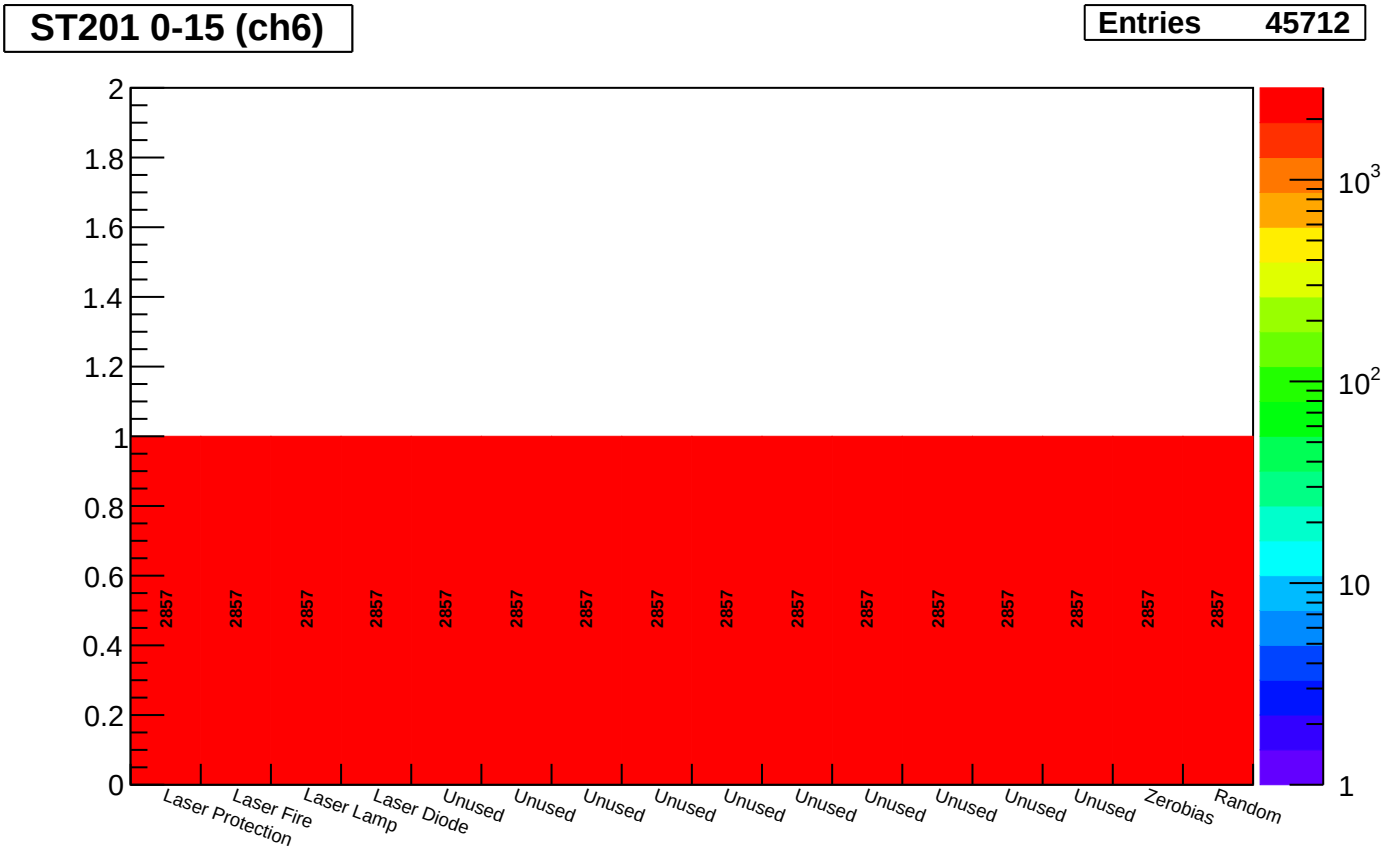

Entries 2857
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff

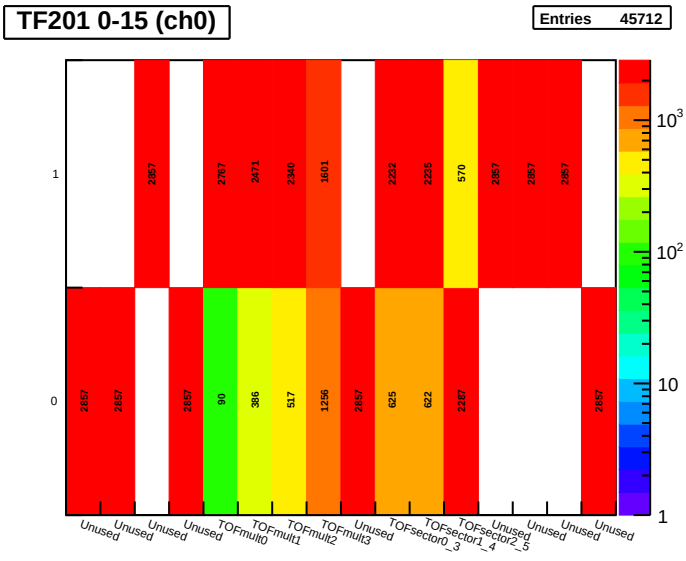

Entries 2857
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

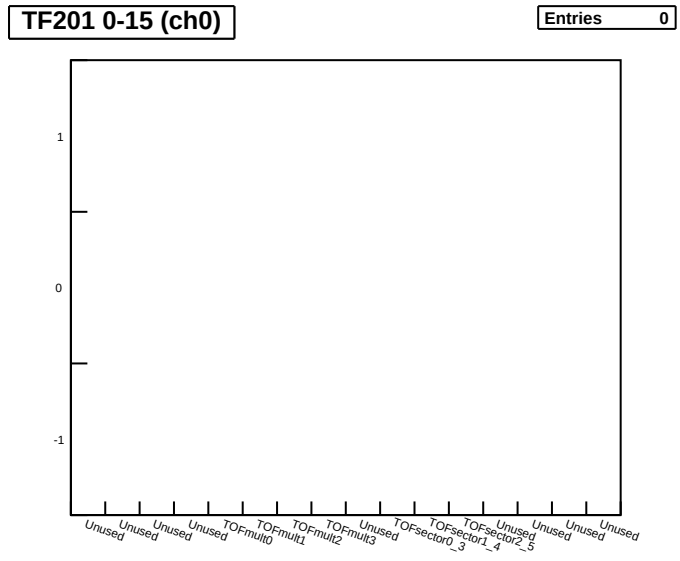

Entries 2857
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff

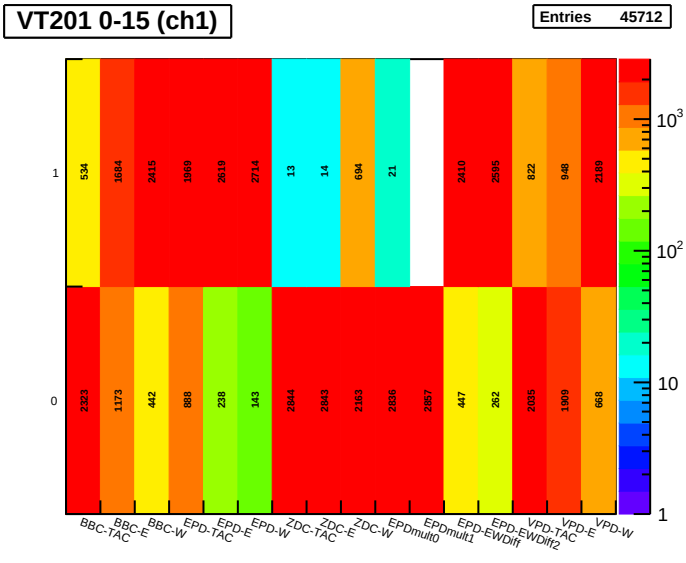

Entries 2857
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^3
10^2
10
1

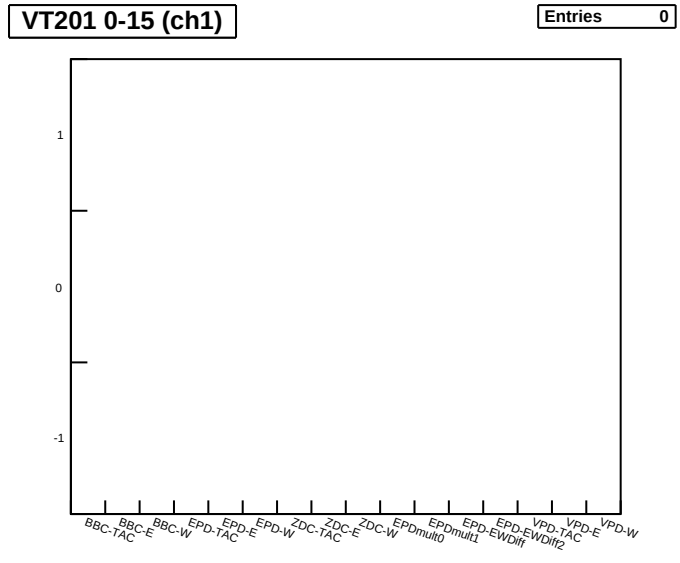

Laser Input Bits
Entries 2857
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

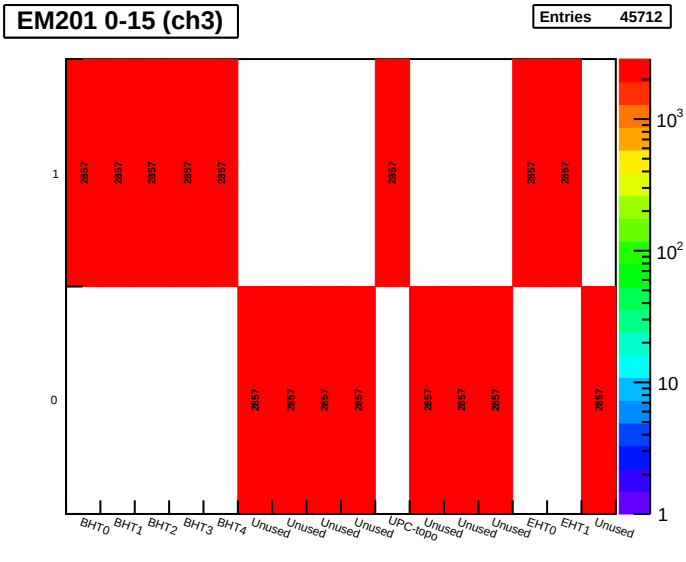

ST201 0-15 (ch6)
Entries 45712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2857
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^3
10^2
10
1

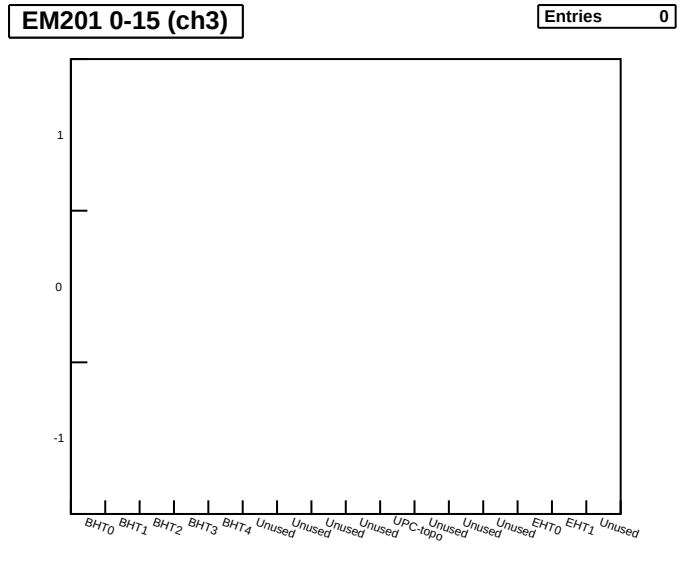

TF201 0-15 (ch0)
Entries 45712
1
0
2857 2767 2471 2340 1601 2232 2235 570 2857 2857 2857
2857 2857 2857 90 386 517 1256 2857 625 622 2287 2857
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^3
10^2
10
1


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 45712
1
0
534 1684 2415 1969 2619 2714 13 14 694 21 2410 2595 822 948 2189
2323 1173 442 888 238 143 2844 2843 2163 2836 2857 447 252 2035 1909 668
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 45712
1
0
2857 2857 2857 2857 2857 2857 2857 2857
2857 2857 2857 2857 2857 2857 2857 2857
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