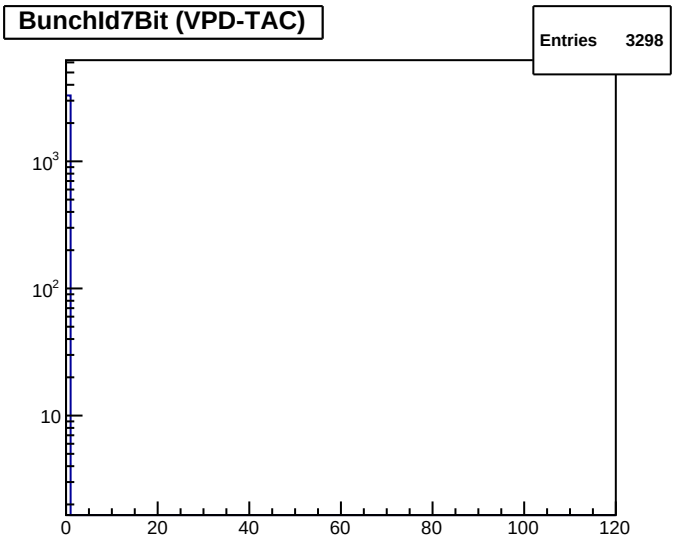
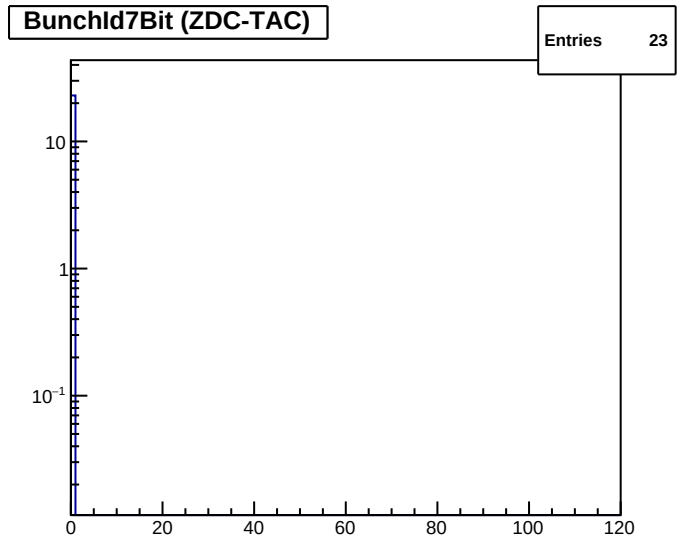
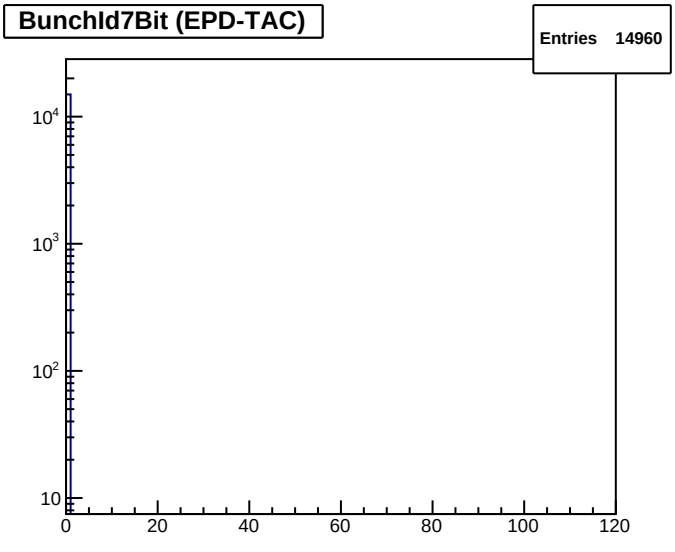
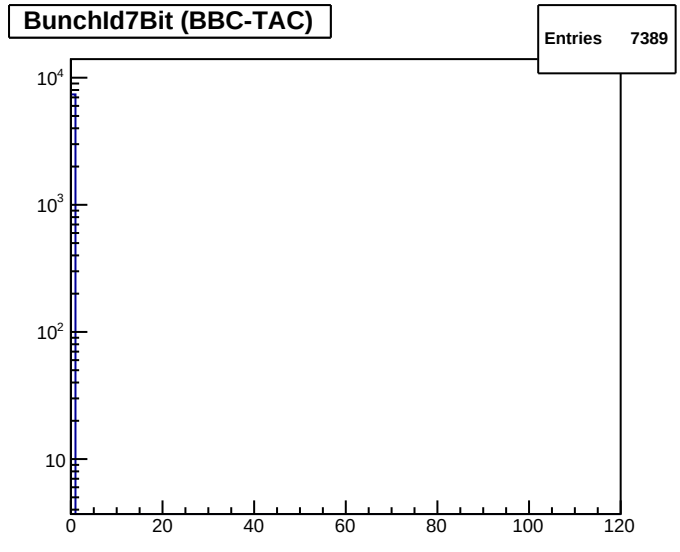
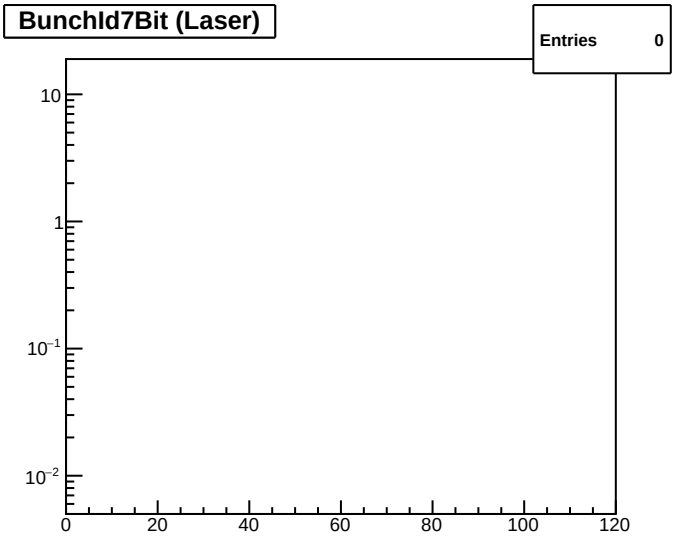
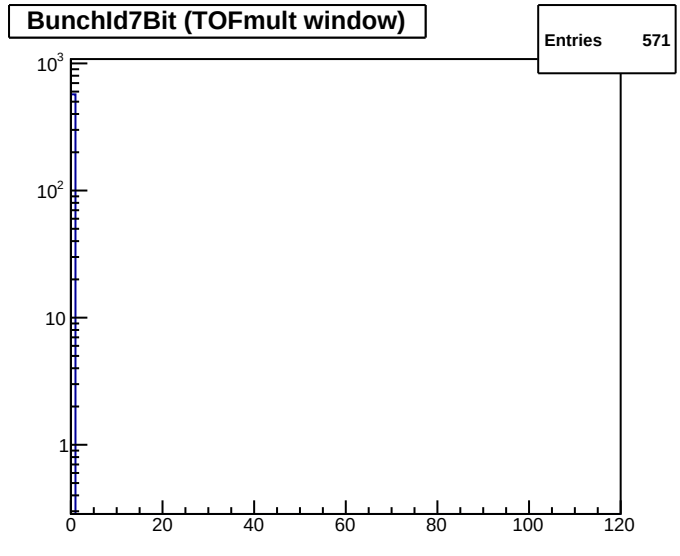

BunchId7Bit (VPD-TAC)
Entries 3298
10^3
10^2
10
0 20 40 60 80 100 120

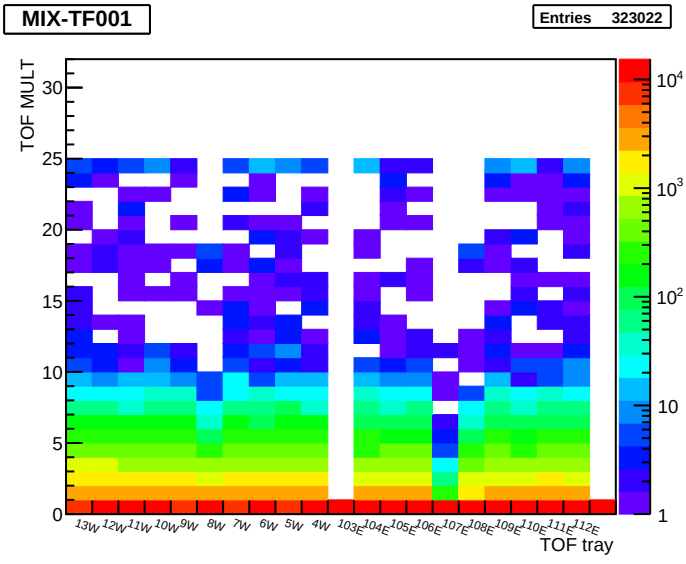

BunchId7Bit (ZDC-TAC)
Entries 23
10
1
10^{-1}
0 20 40 60 80 100 120

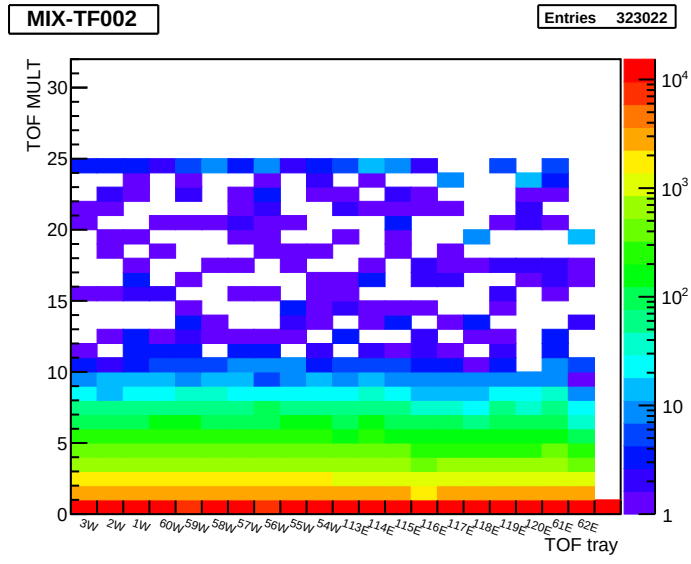

BunchId7Bit (EPD-TAC)
Entries 14960
10^4
10^3
10^2
10
0 20 40 60 80 100 120

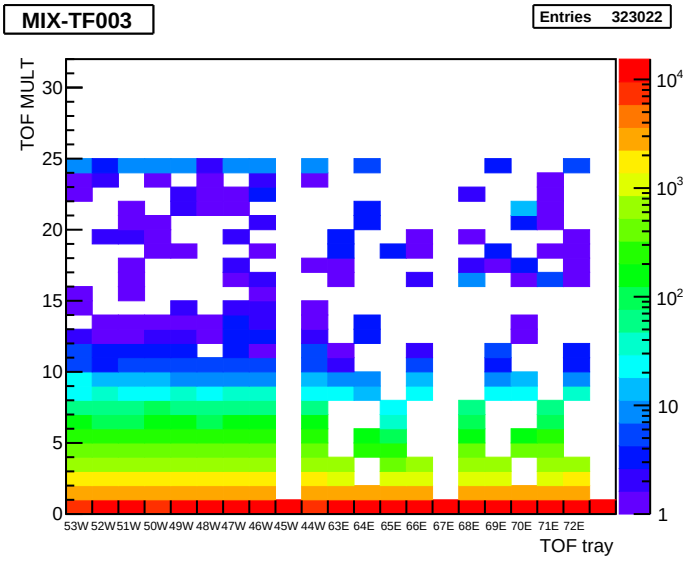

BunchId7Bit (BBC-TAC)
Entries 7389
10^4
10^3
10^2
10
0 20 40 60 80 100 120

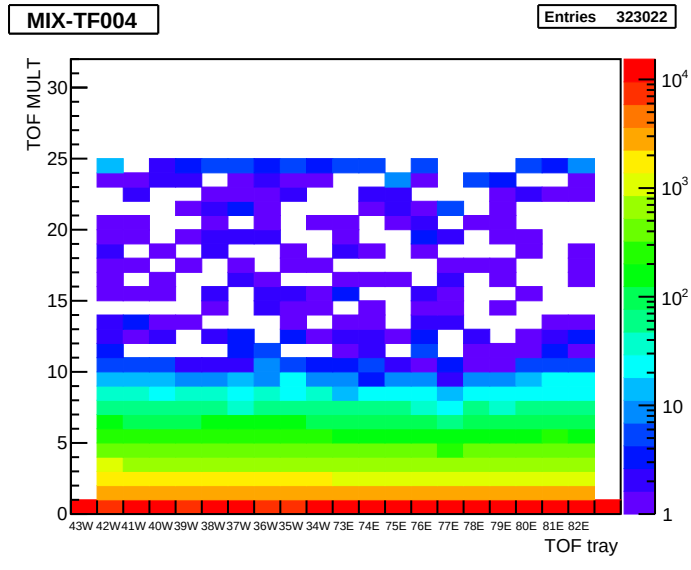

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

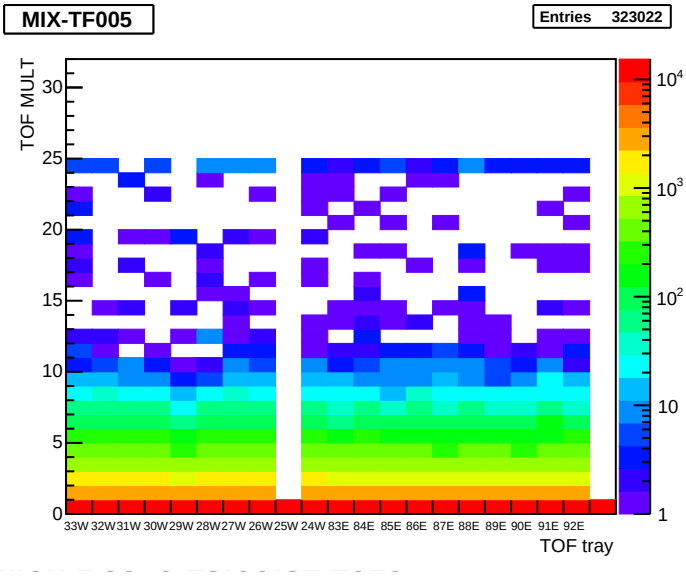

BunchId7Bit (TOFmult window)
Entries 571
10^3
10^2
10
1
0 20 40 60 80 100 120

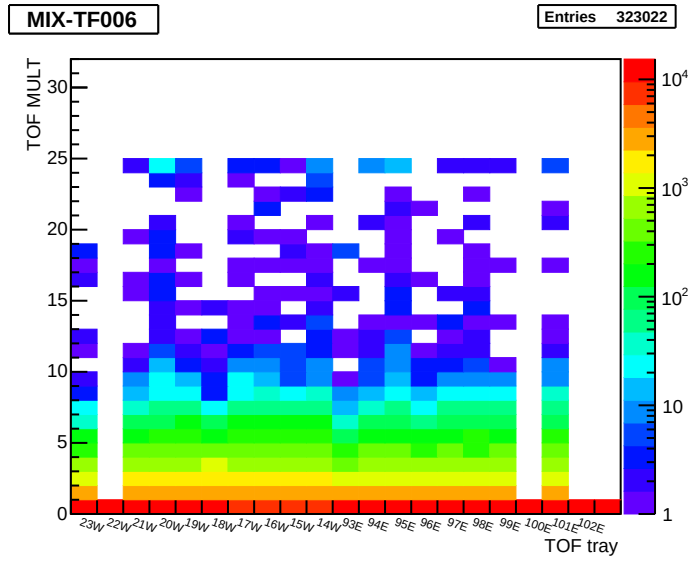

MIX-TF001
Entries 323022
TOF MULT
TOF tray

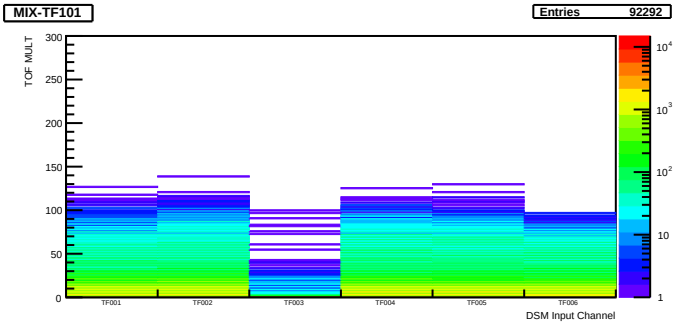

MIX-TF002
Entries 323022
TOF MULT
TOF tray

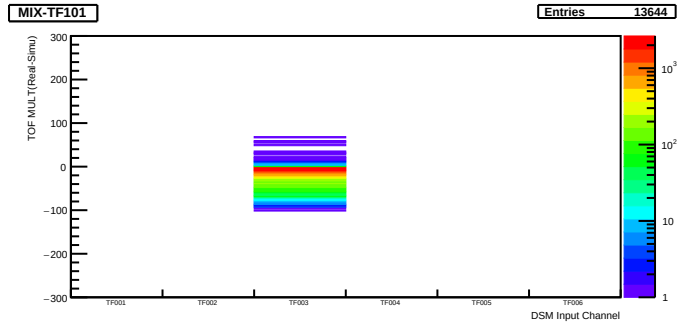

MIX-TF003
Entries 323022
TOF MULT
TOF tray

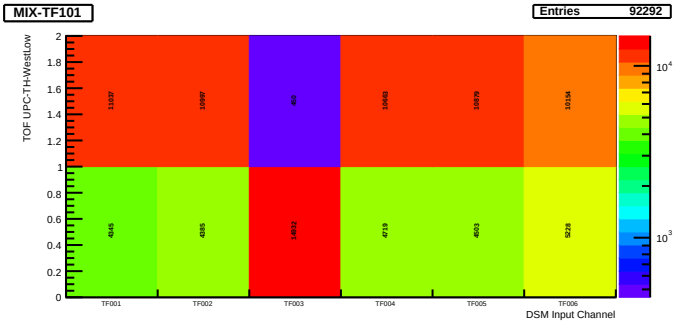

MIX-TF004
Entries 323022
TOF MULT
TOF tray

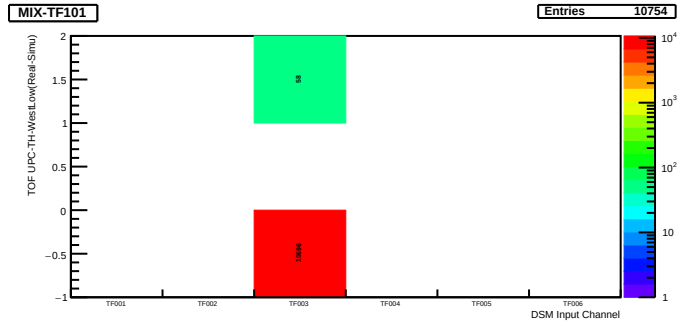

MIX-TF005
Entries 323022
TOF MULT
TOF tray

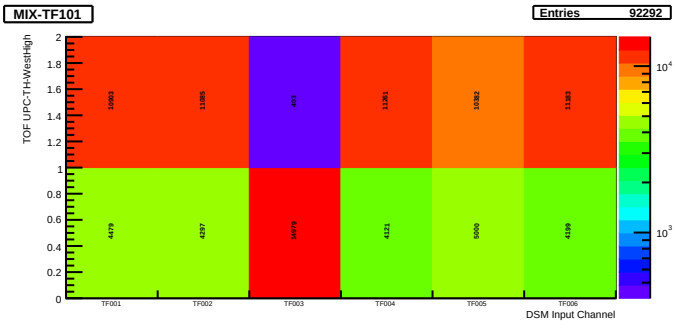

MIX-TF006
Entries 323022
TOF MULT
TOF tray

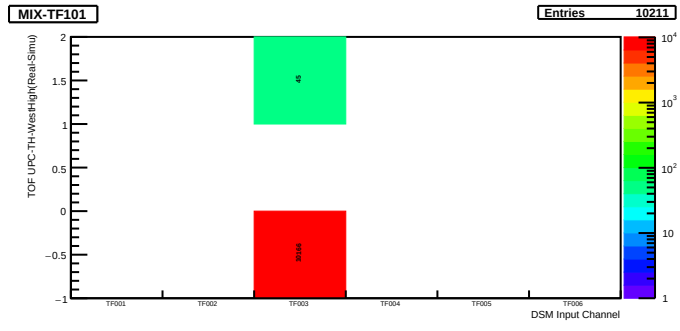

MIX-TF101
Entries 92292
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

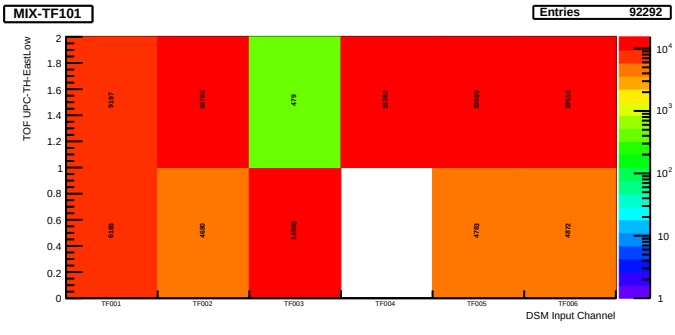

MIX-TF101
Entries 13644
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

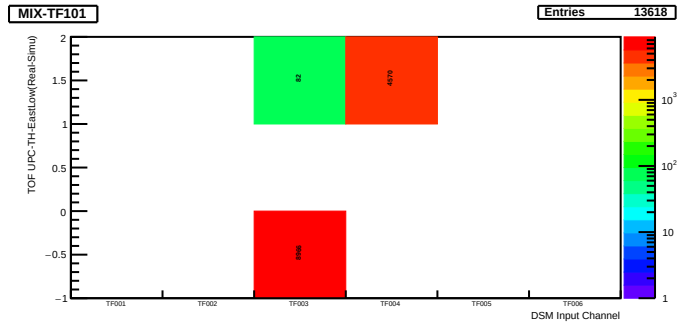

MIX-TF101
Entries 92292
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

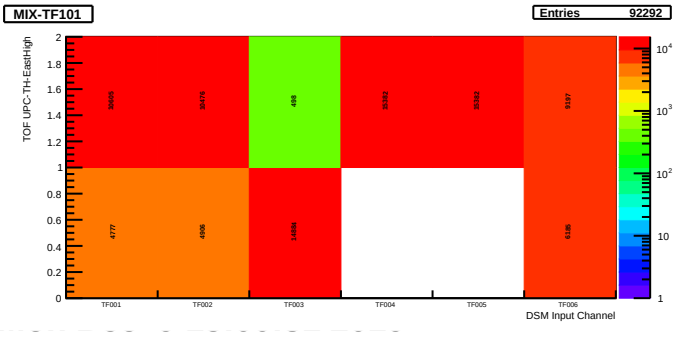

MIX-TF101
Entries 10754
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

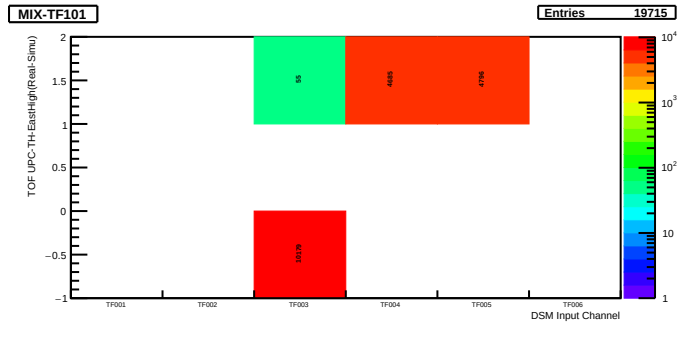

MIX-TF101
Entries 92292
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

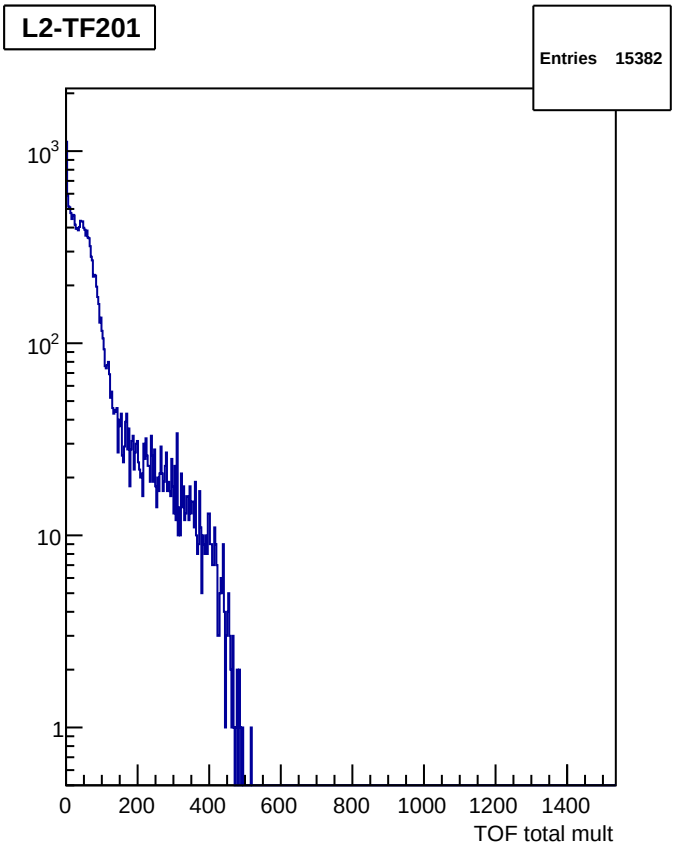

MIX-TF101
Entries 10211
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

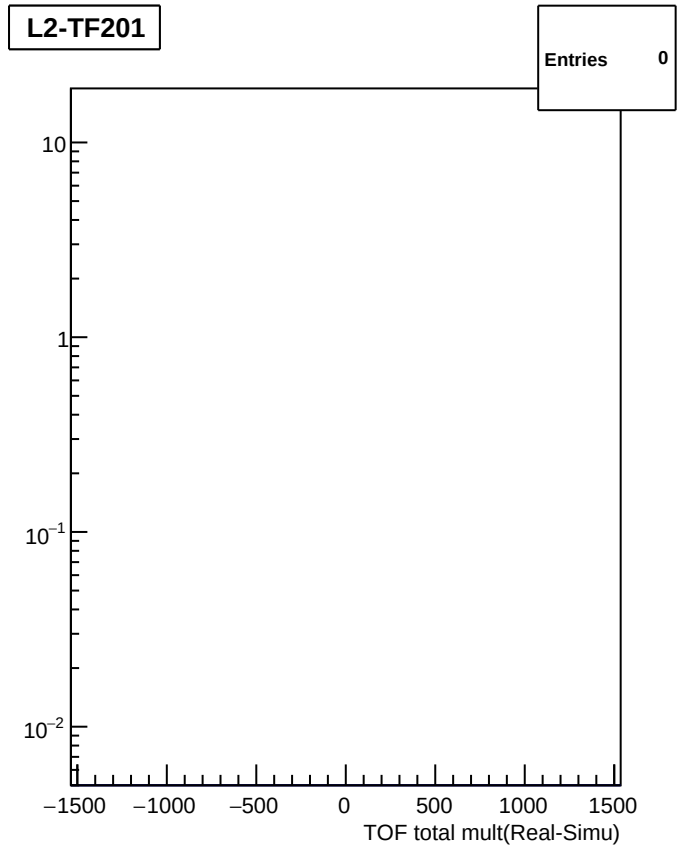

MIX-TF101
Entries 92292
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

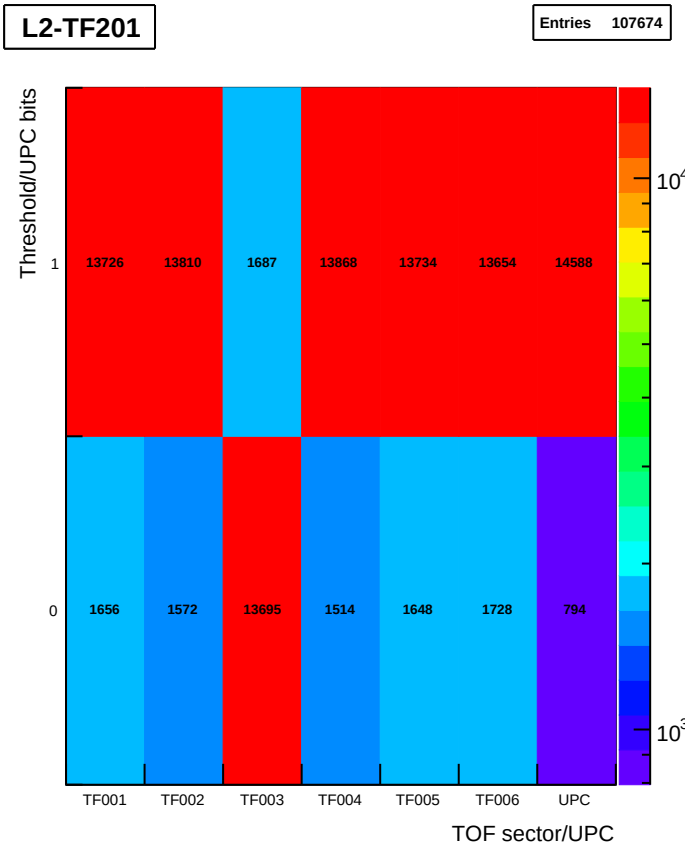

MIX-TF101
Entries 13618
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

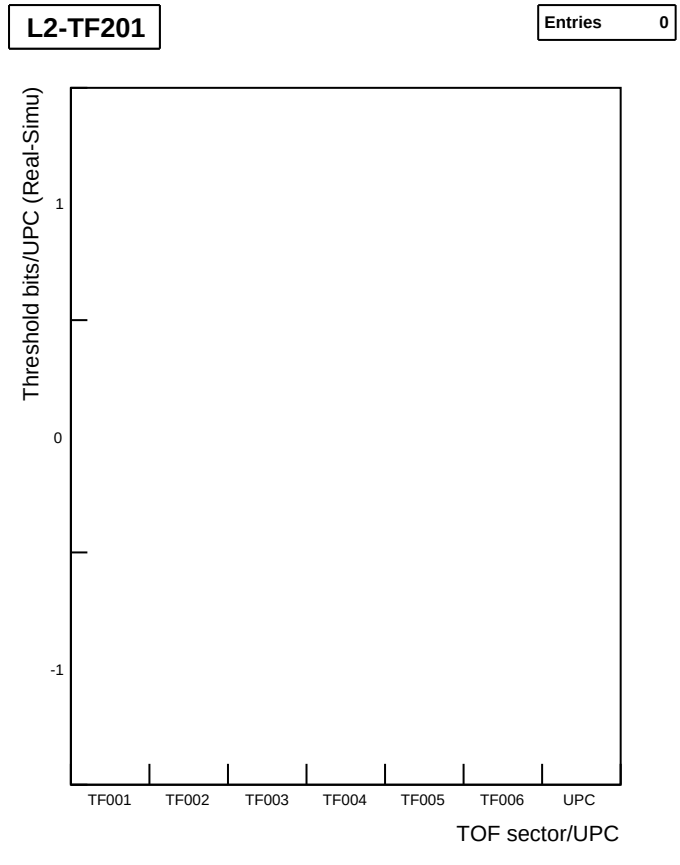

MIX-TF101
Entries 92292
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

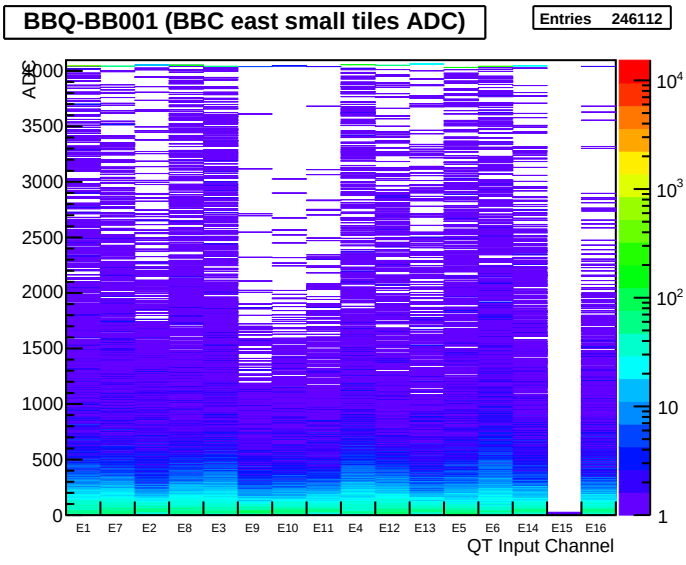

MIX-TF101
Entries 19715
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

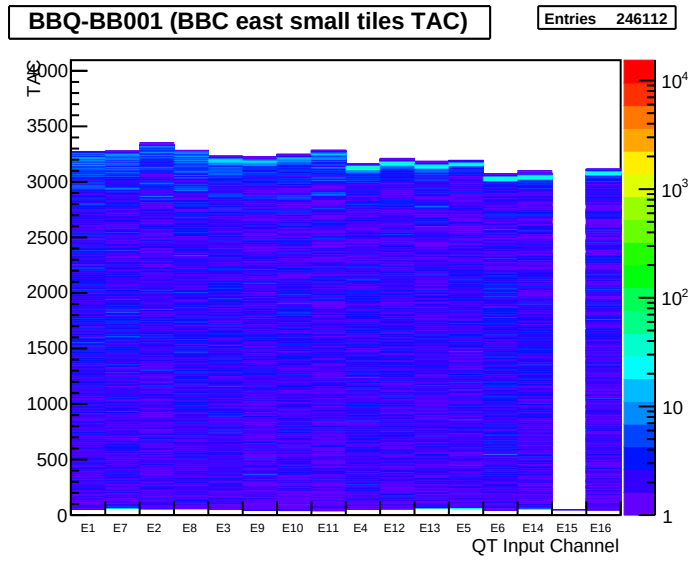

L2-TF201
Entries 15382
TOF total mult

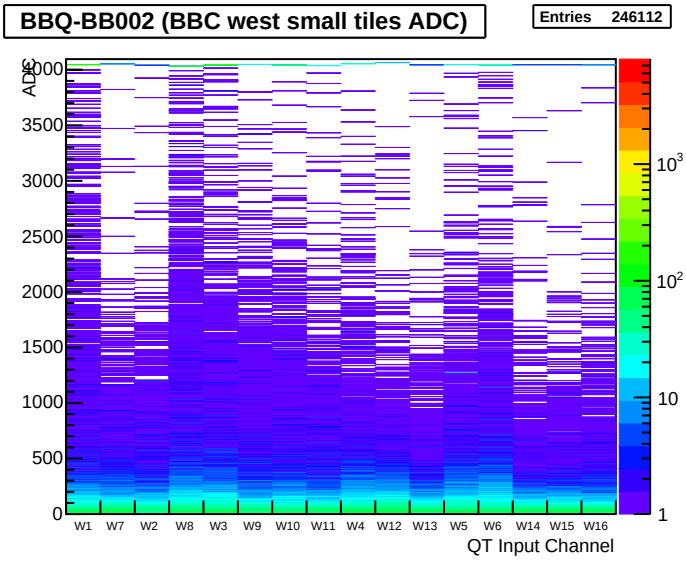

L2-TF201
Entries 0
TOF total mult(Real-Simu)

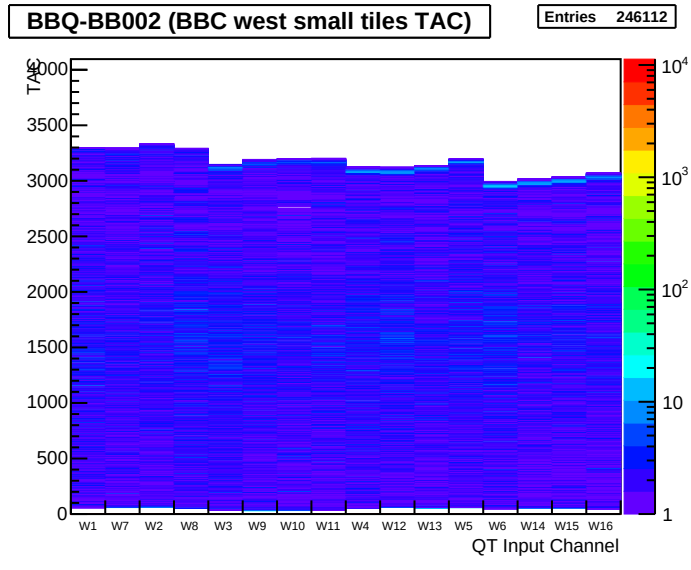

L2-TF201
Entries 107674
Threshold/UPC bits
13726
13810
1687
13868
13734
13654
14588
1656
1572
13695
1514
1648
1728
794
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

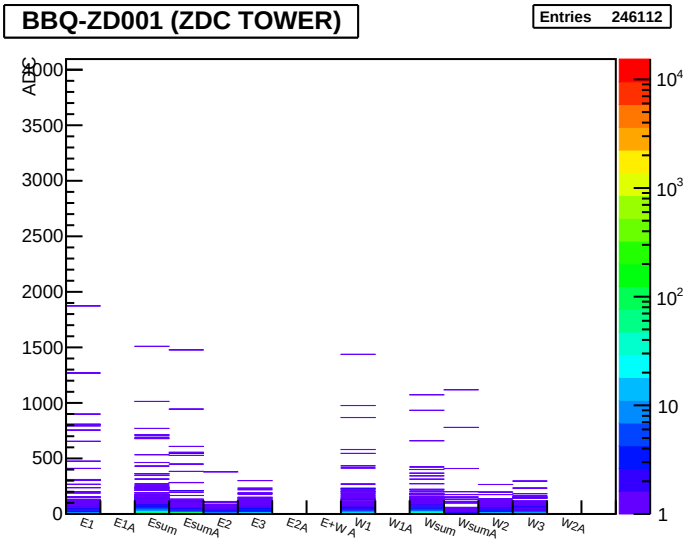

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

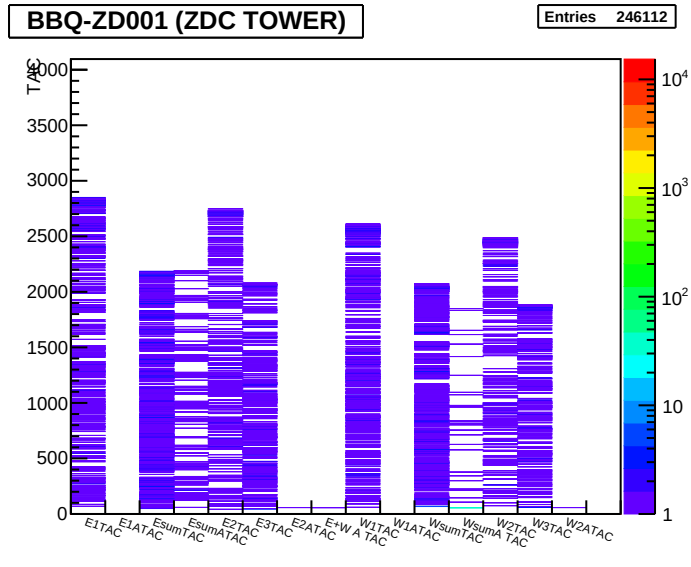

BBQ-BB001 (BBC east small tiles ADC)
Entries 246112
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

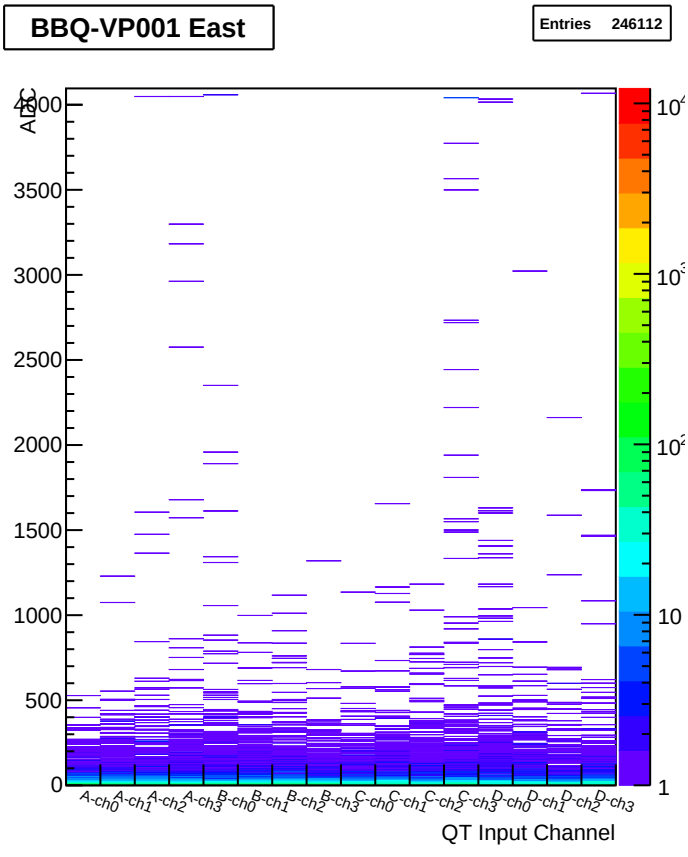

BBQ-BB001 (BBC east small tiles TAC)
Entries 246112
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

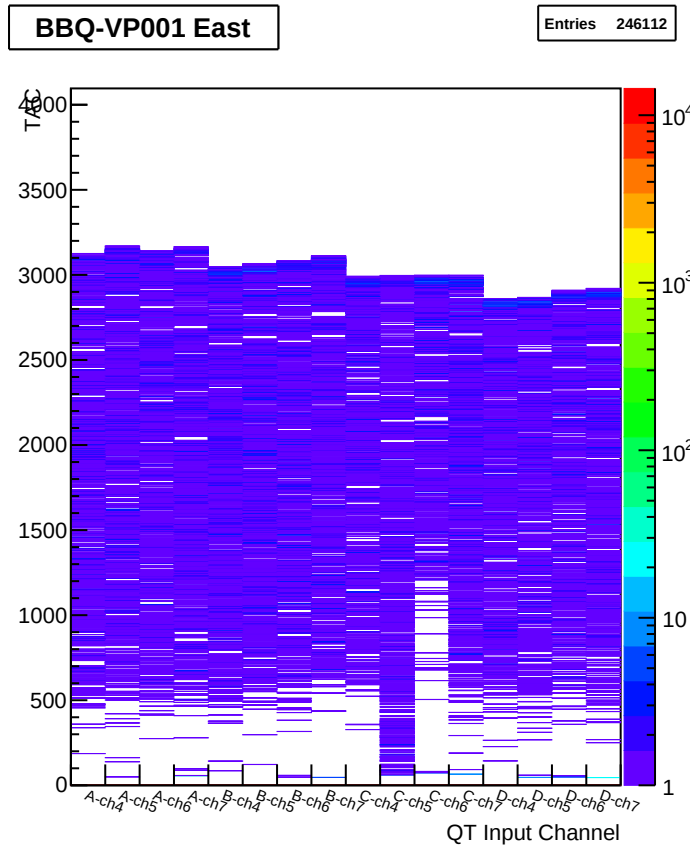

BBQ-BB002 (BBC west small tiles ADC)
Entries 246112
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

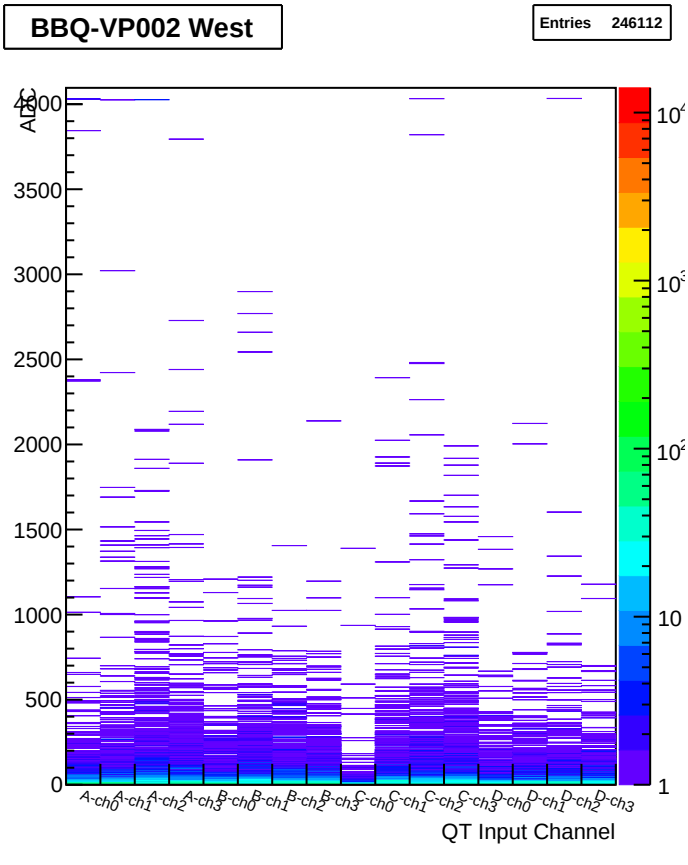

BBQ-BB002 (BBC west small tiles TAC)
Entries 246112
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

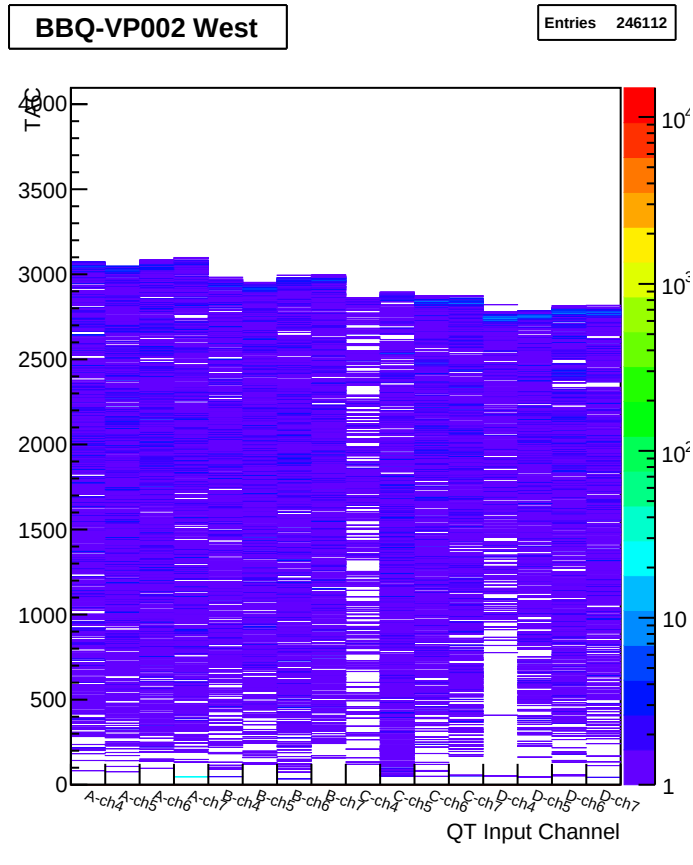

BBQ-ZD001 (ZDC TOWER)
Entries 246112
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

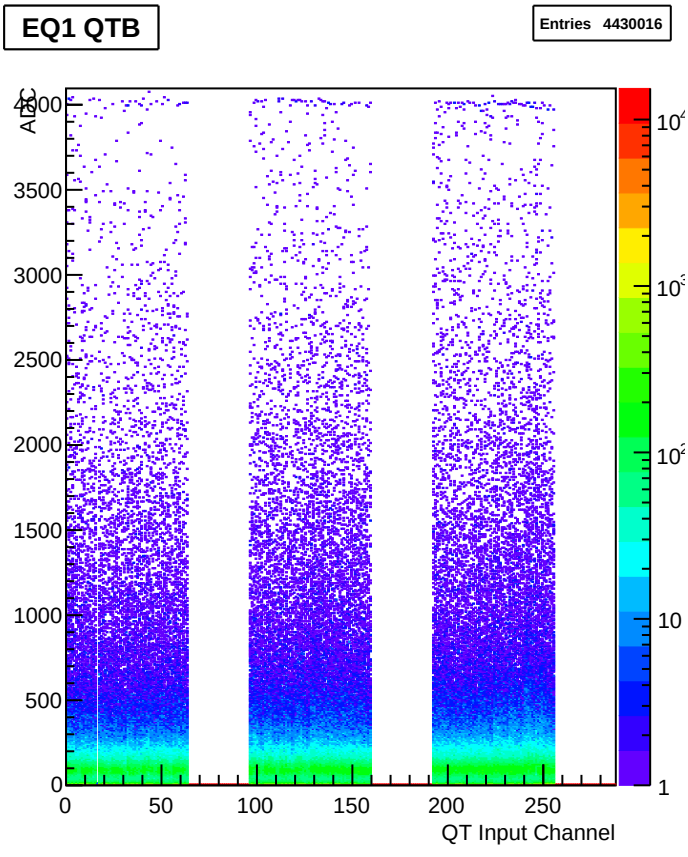

BBQ-ZD001 (ZDC TOWER)
Entries 246112
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

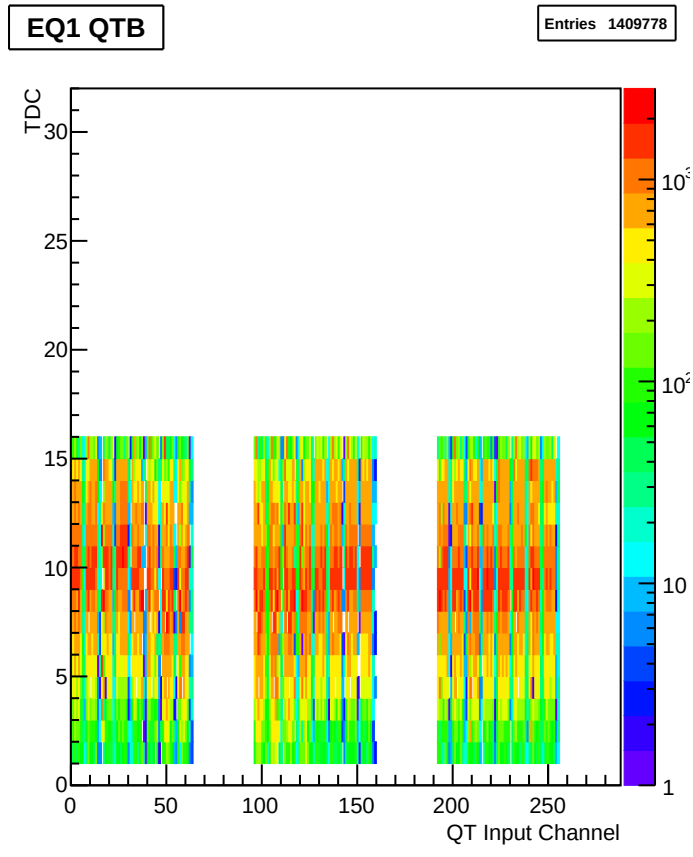

BBQ-VP001 East
Entries 246112
ADC
QT Input Channel

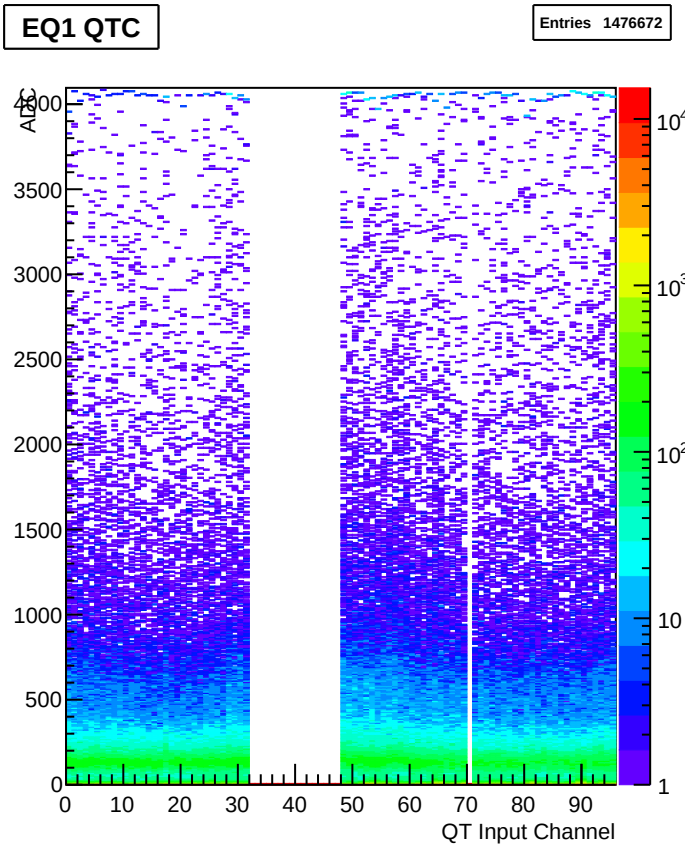

BBQ-VP001 East
Entries 246112
TAC
QT Input Channel

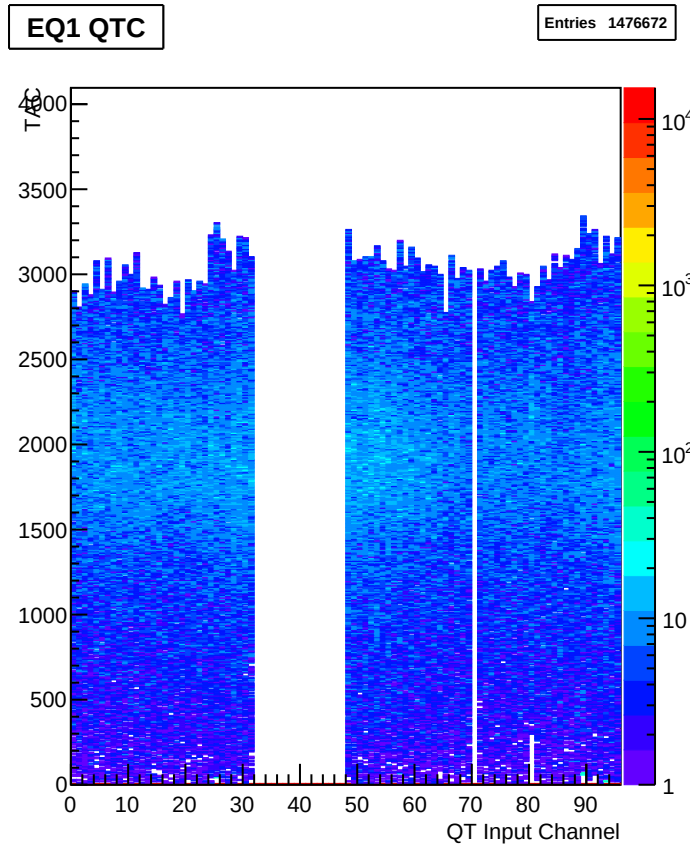

BBQ-VP002 West
Entries 246112
ADC
QT Input Channel

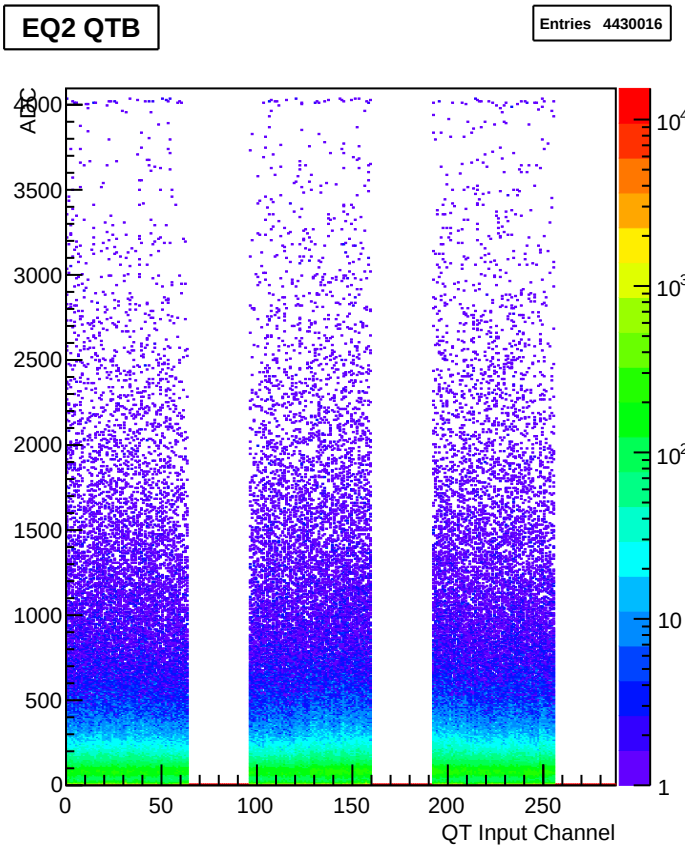

BBQ-VP002 West
Entries 246112
TAC
QT Input Channel

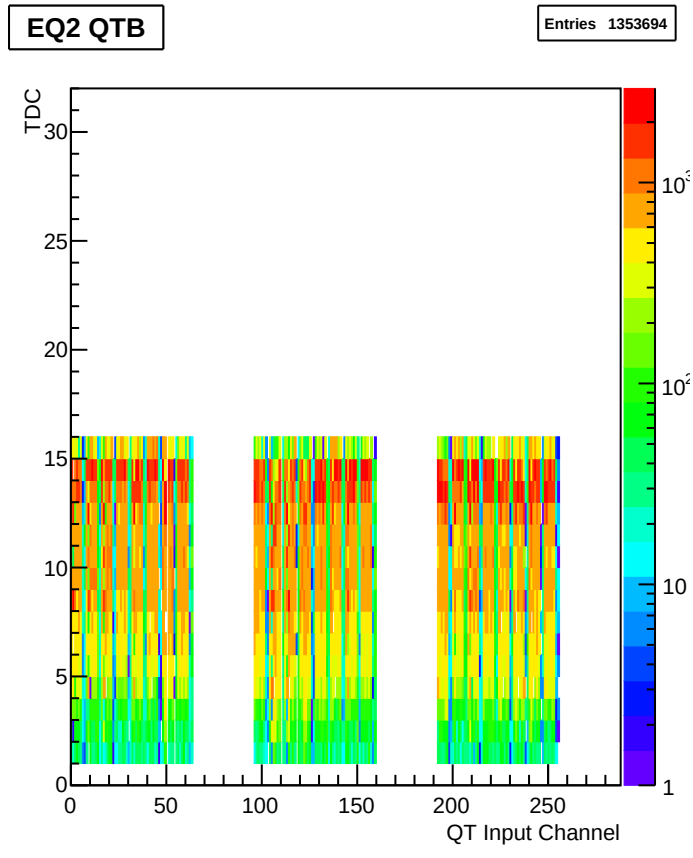

EQ1 QTB
Entries 4430016
ADC
QT Input Channel

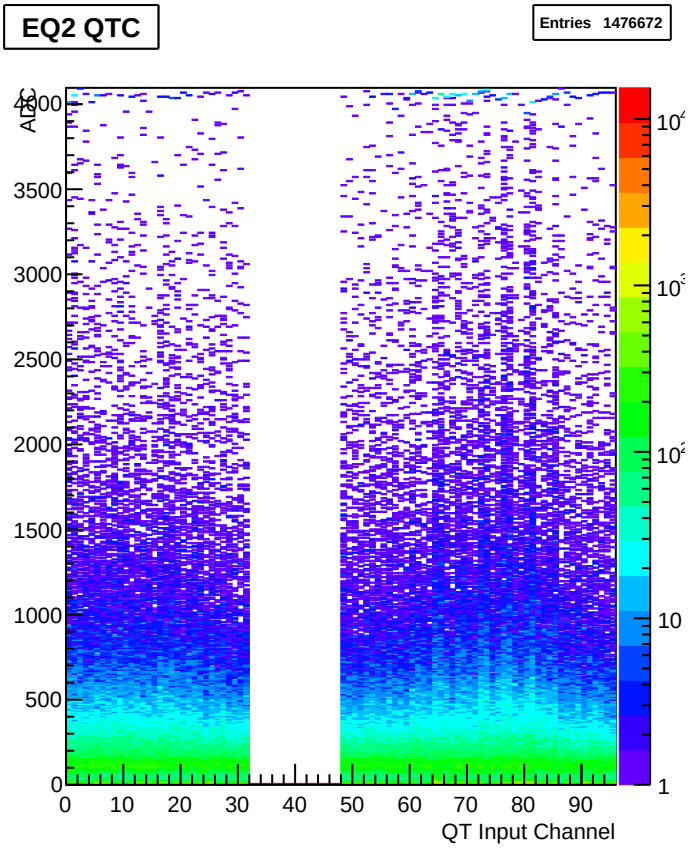

EQ1 QTB
Entries 1409778
TDC
QT Input Channel

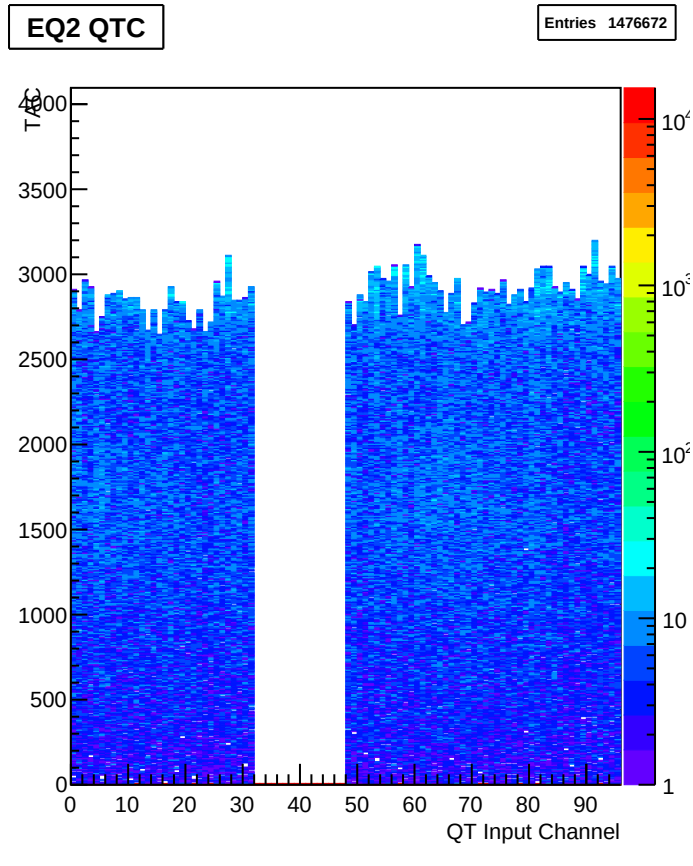

EQ1 QTC
Entries 1476672
ADC
QT Input Channel

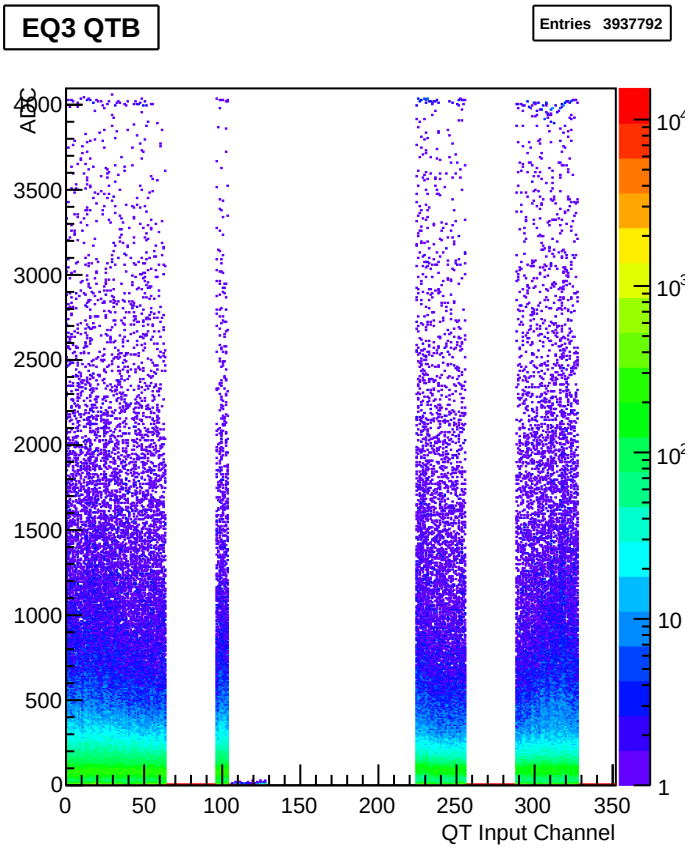

EQ1 QTC
Entries 1476672
TADC
QT Input Channel

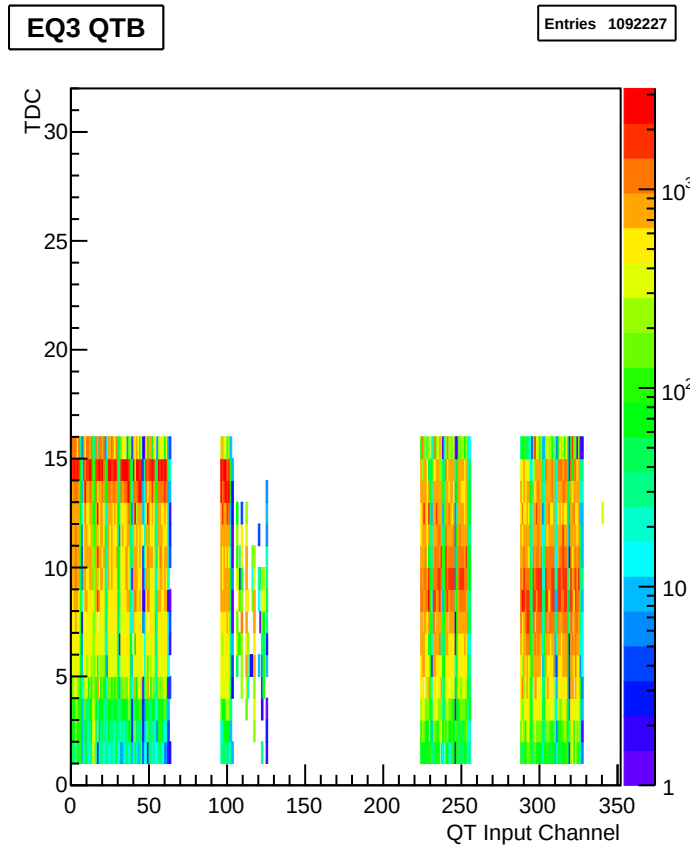

EQ2 QTB
Entries 4430016
ADC
QT Input Channel

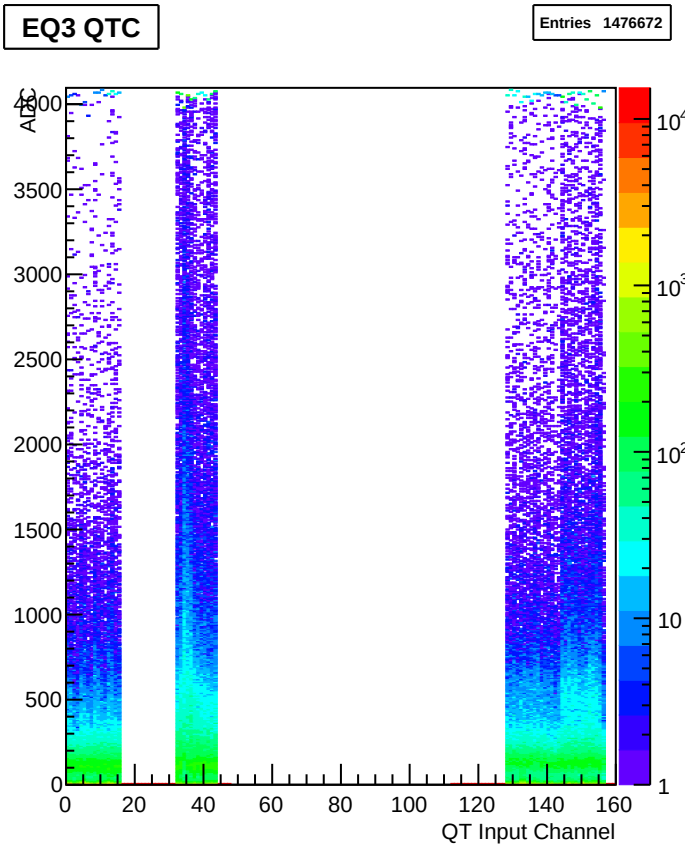

EQ2 QTB
Entries 1353694
TDC
QT Input Channel

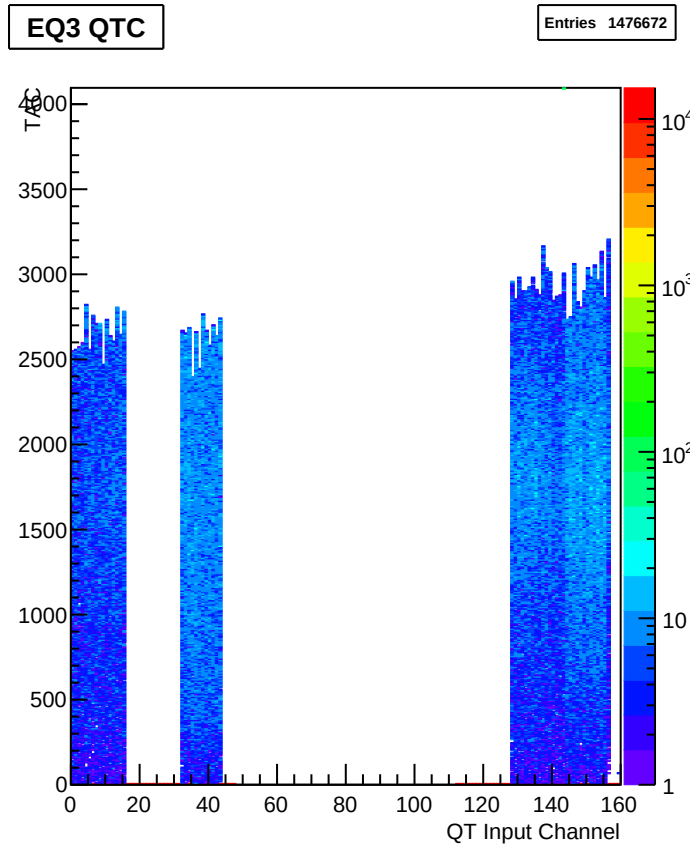

EQ2 QTC
Entries 1476672
ADC
QT Input Channel

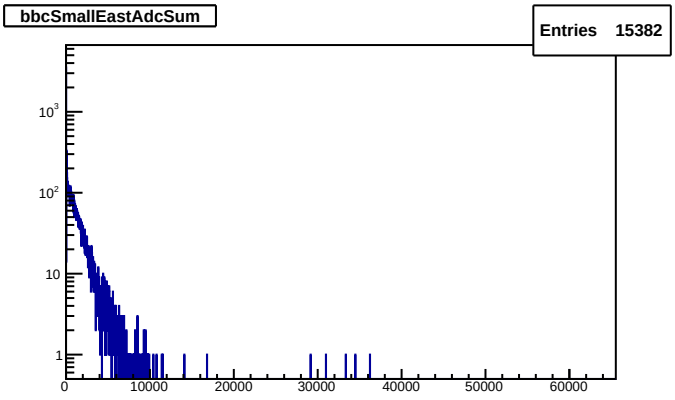

EQ2 QTC
Entries 1476672
TADC
QT Input Channel

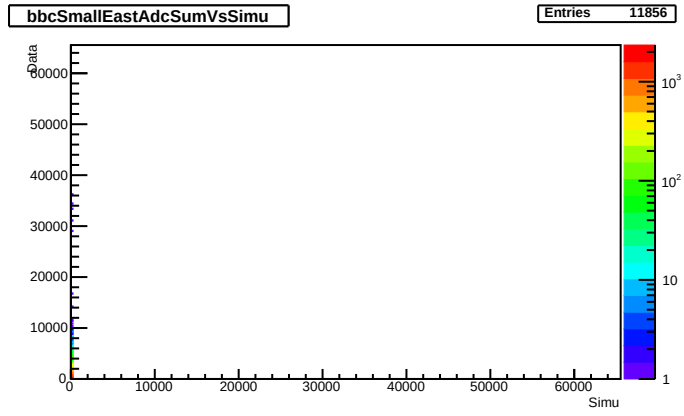

EQ3 QTB
Entries 3937792
ADC
QT Input Channel

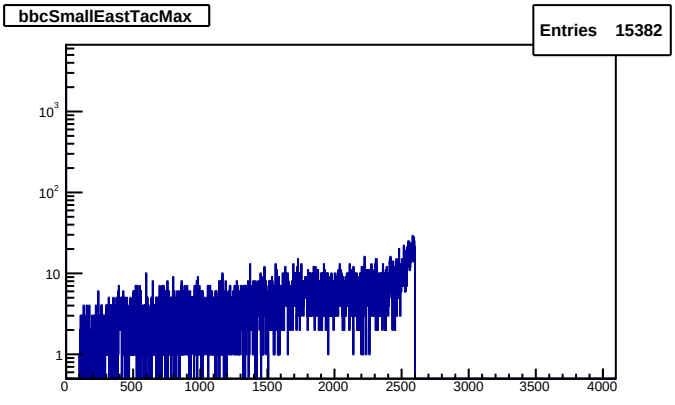

EQ3 QTB
Entries 1092227
TDC
QT Input Channel

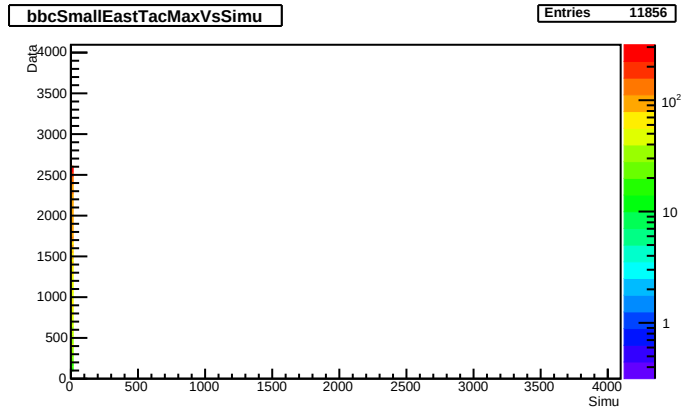

EQ3 QTC
Entries 1476672
ADC
QT Input Channel

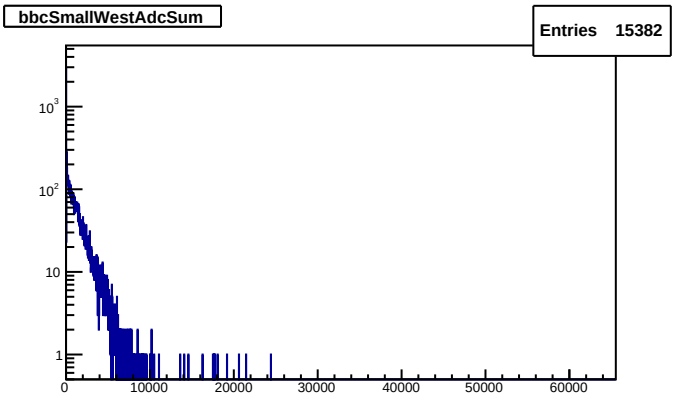

EQ3 QTC
Entries 1476672
TADC
QT Input Channel

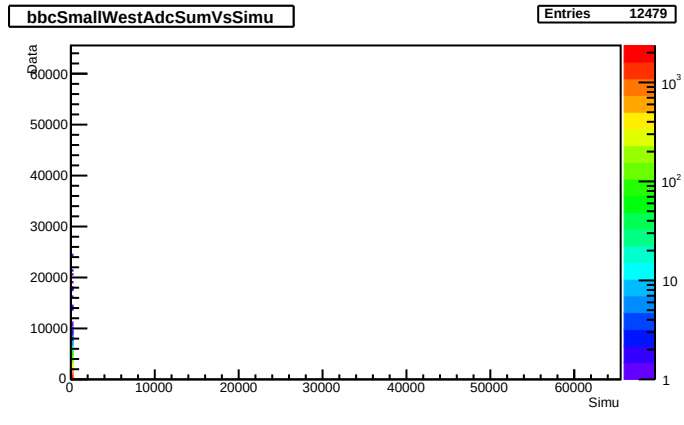

bbcSmallEastAdcSum
Entries 15382

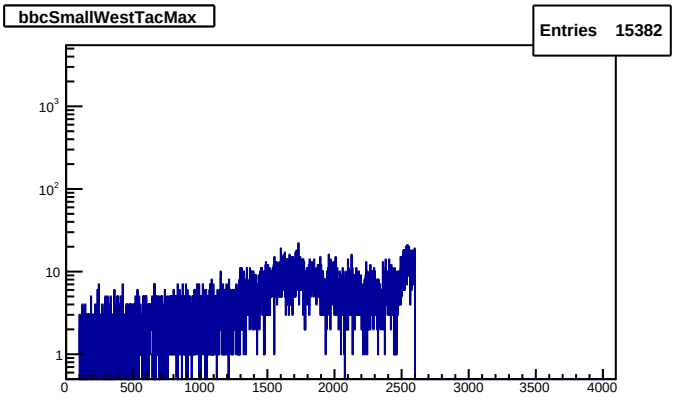

bbcSmallEastAdcSumVsSimu
Entries 11856
Data
Simu

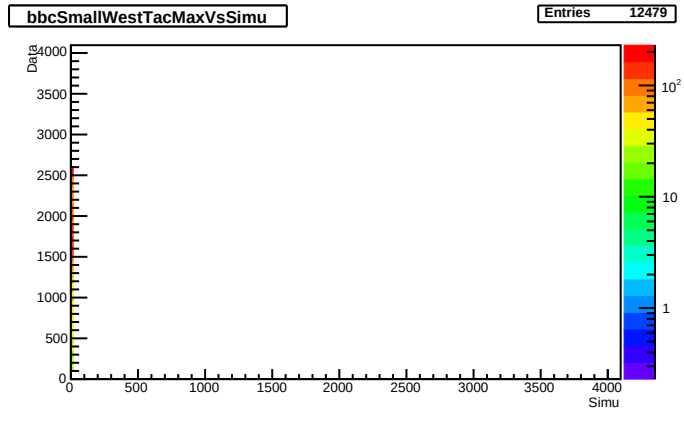

bbcSmallEastTacMax
Entries 15382

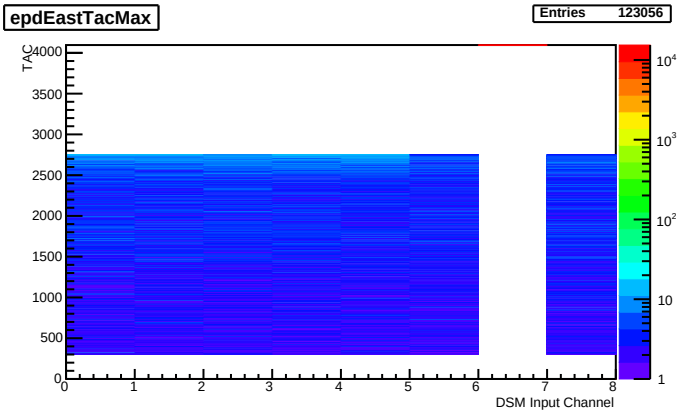

bbcSmallEastTacMaxVsSimu
Entries 11856
Data
Simu

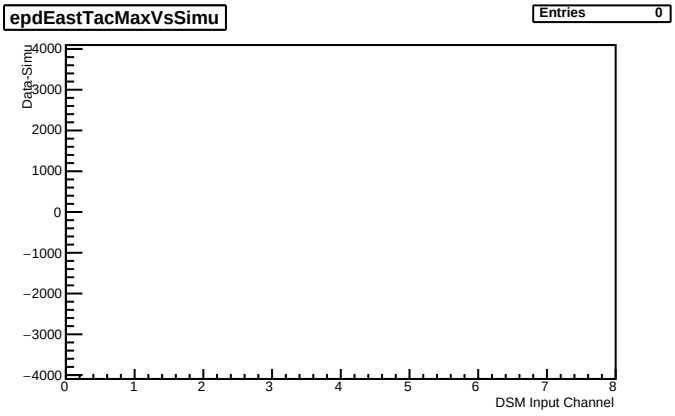

bbcSmallWestAdcSum
Entries 15382

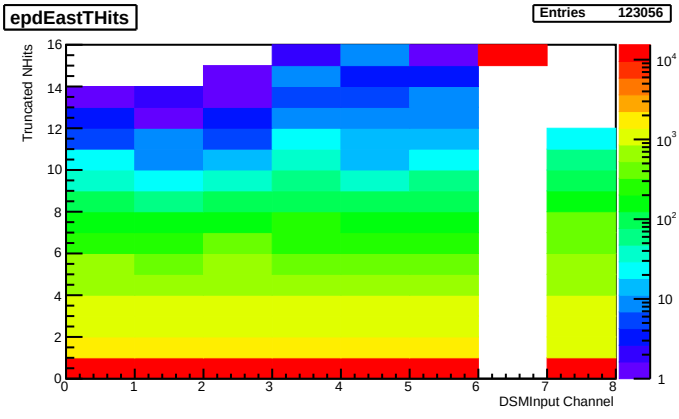

bbcSmallWestAdcSumVsSimu
Entries 12479
Data
Simu

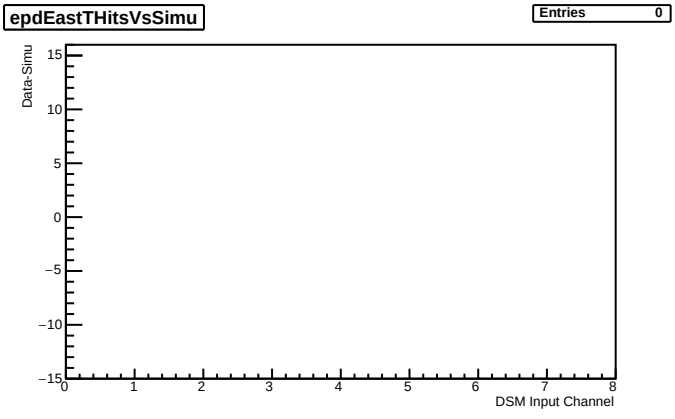

bbcSmallWestTacMax
Entries 15382

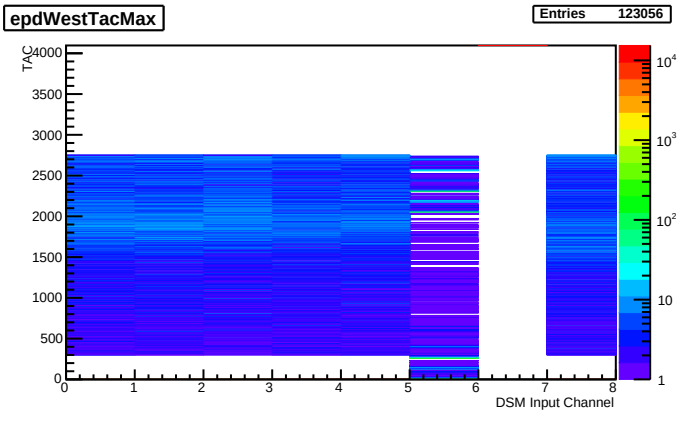

bbcSmallWestTacMaxVsSimu
Entries 12479
Data
Simu

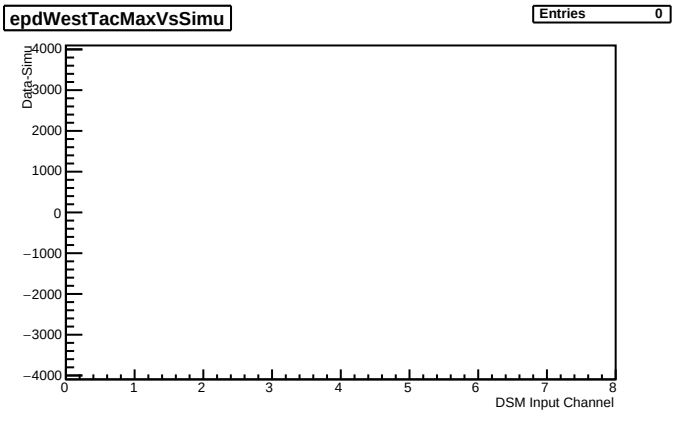

epdEastTacMax
Entries 123056
TAC
DSM Input Channel

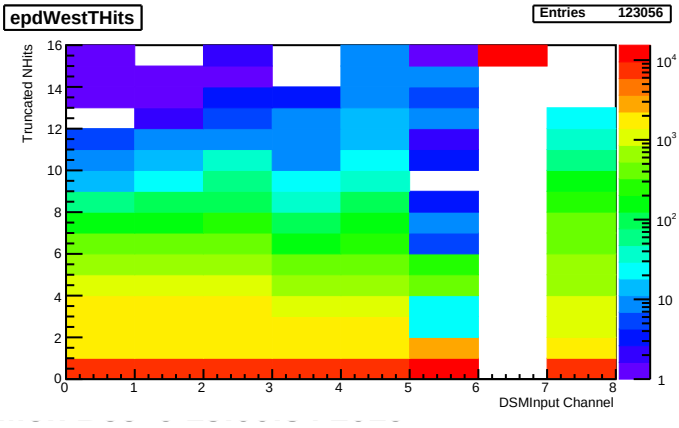

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

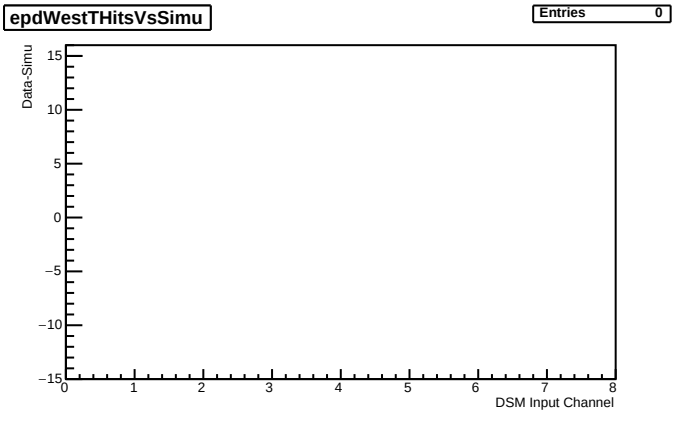

epdEastTHits
Entries 123056
Truncated NHits
DSMInput Channel

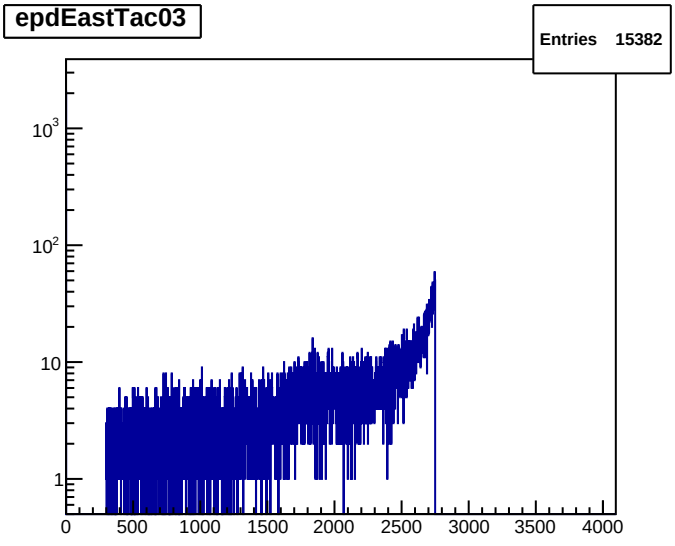

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

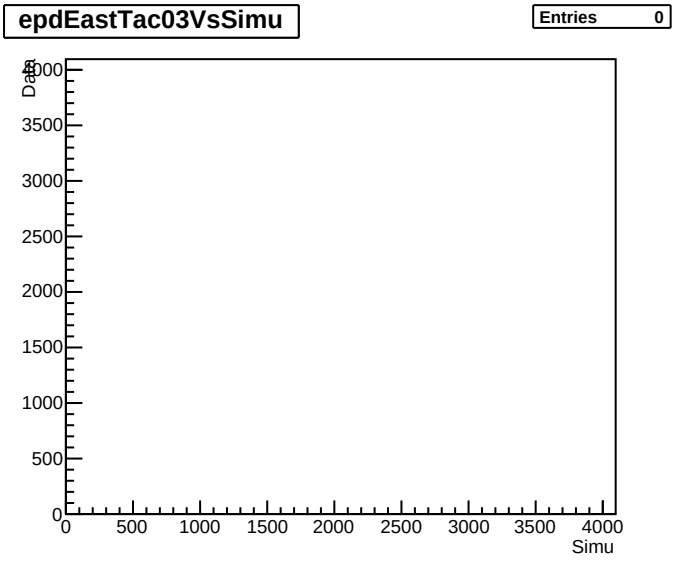

epdWestTacMax
Entries 123056
TAC
DSM Input Channel

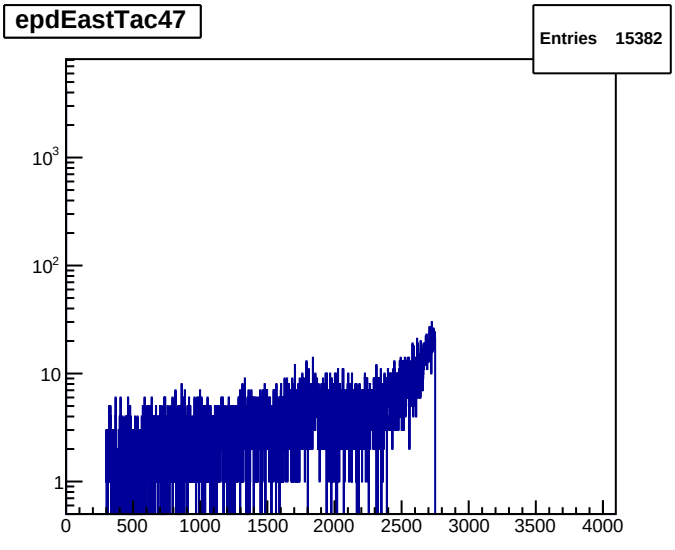

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

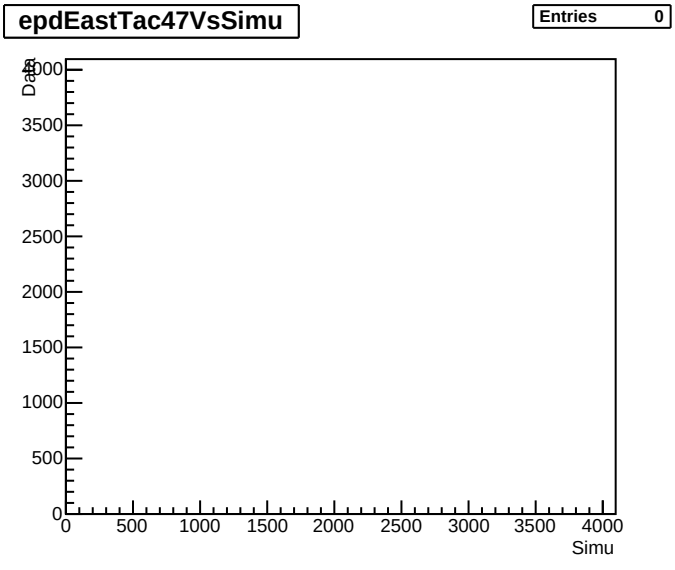

epdWestTHits
Entries 123056
Truncated NHits
DSMInput Channel

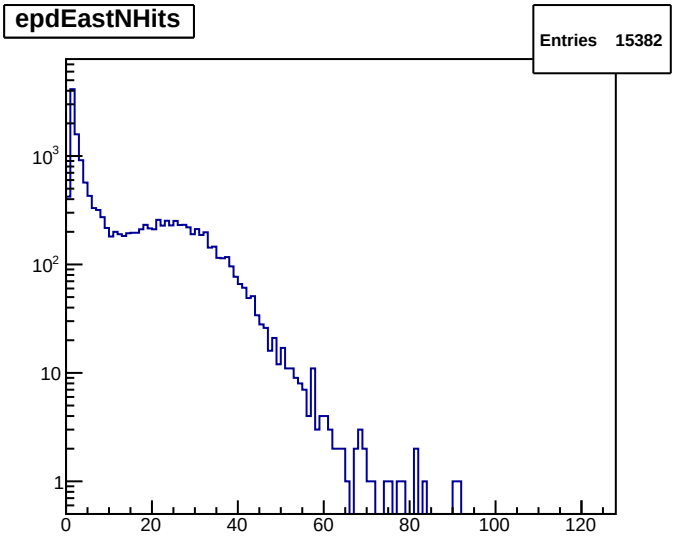

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

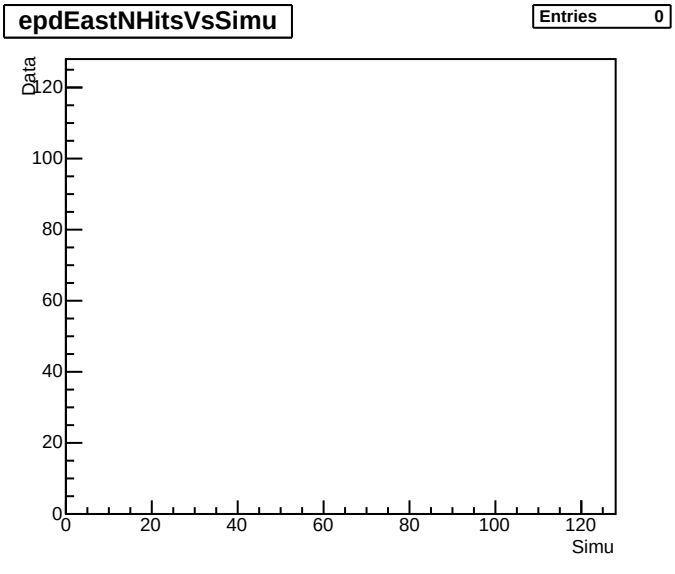

epdEastTac03
Entries 15382
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

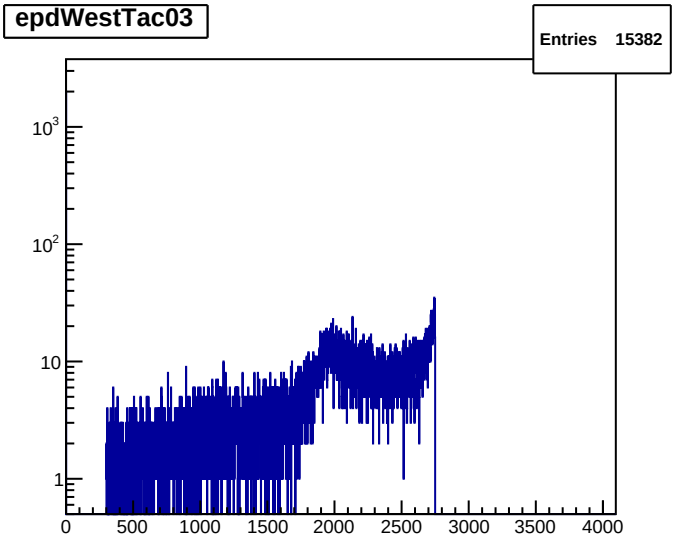

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

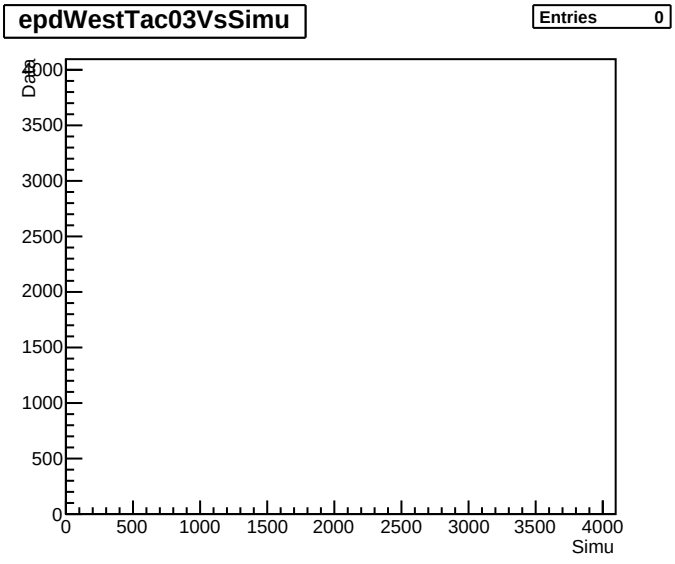

epdEastTac47
Entries 15382
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

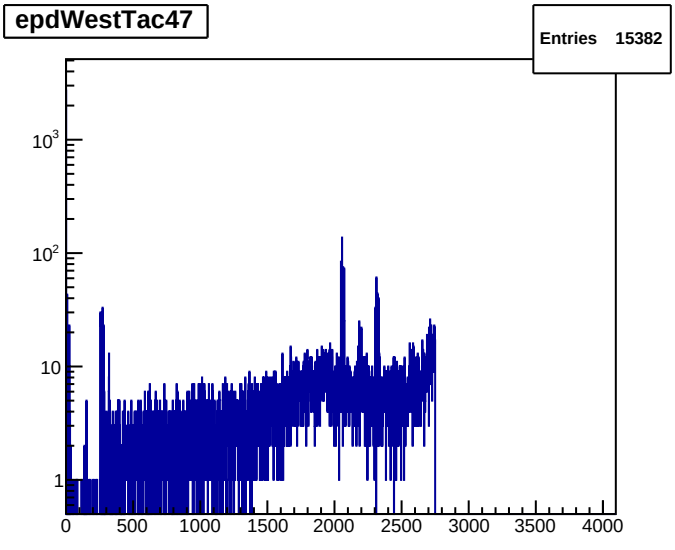

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

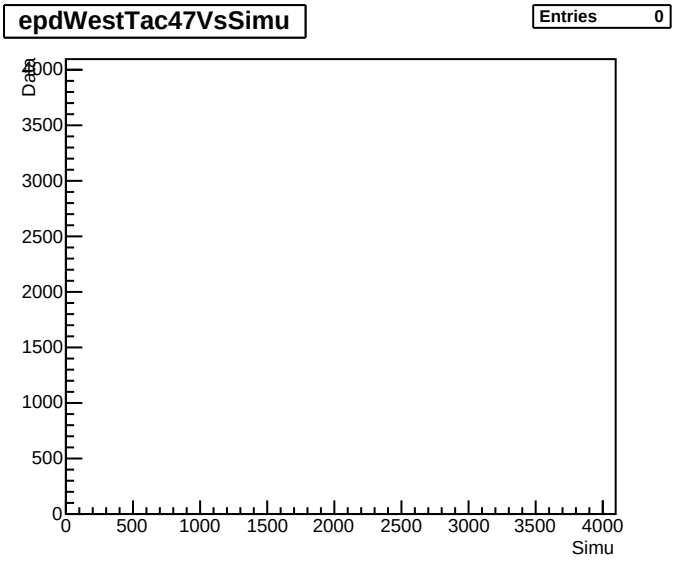

epdEastNHits
Entries 15382
10^3
10^2
10
1
0 20 40 60 80 100 120

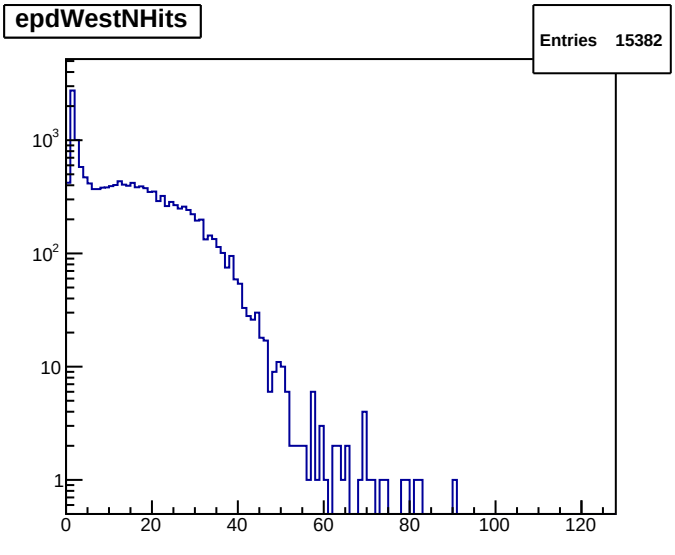

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

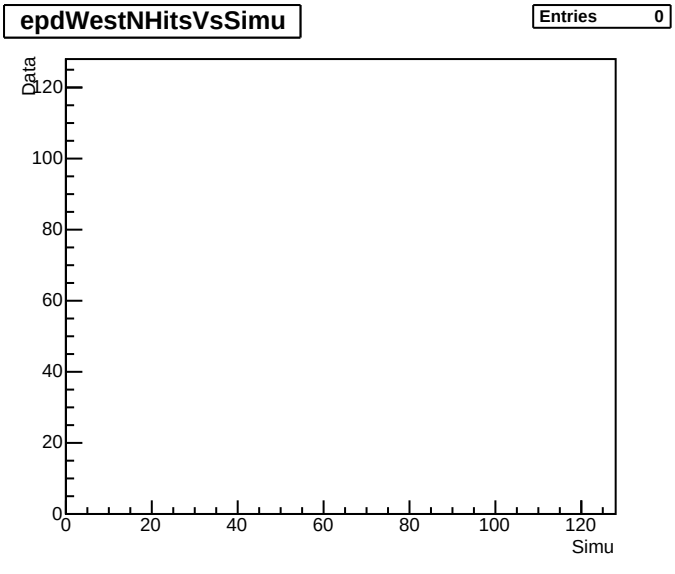

epdWestTac03
Entries 15382

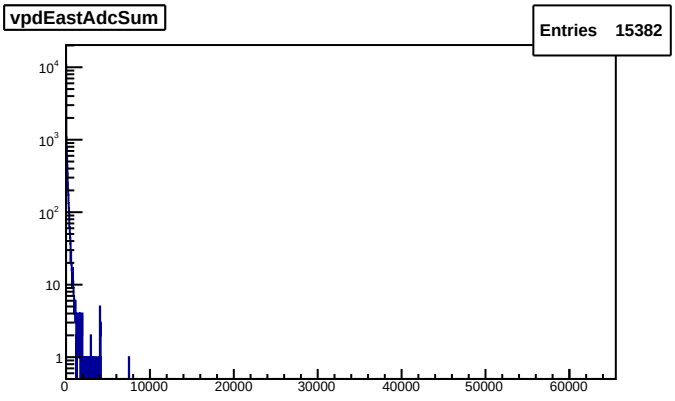

epdWestTac03VsSimu
Entries 0
Data
Simu

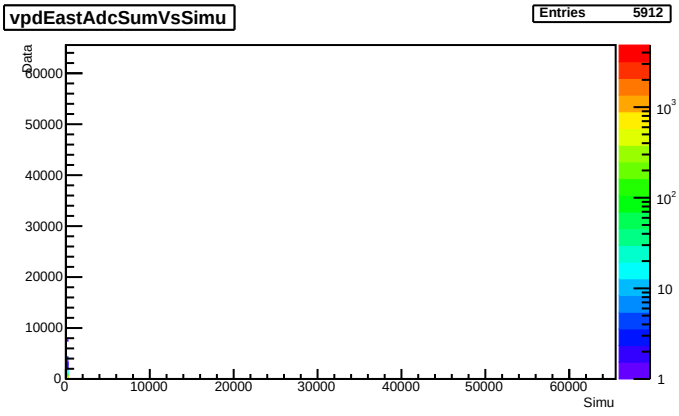

epdWestTac47
Entries 15382

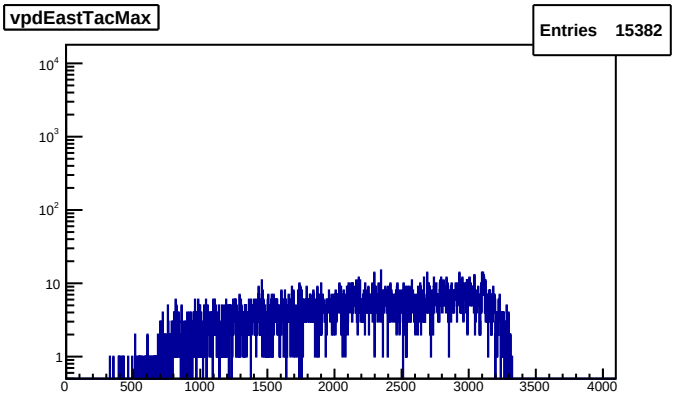

epdWestTac47VsSimu
Entries 0
Data
Simu

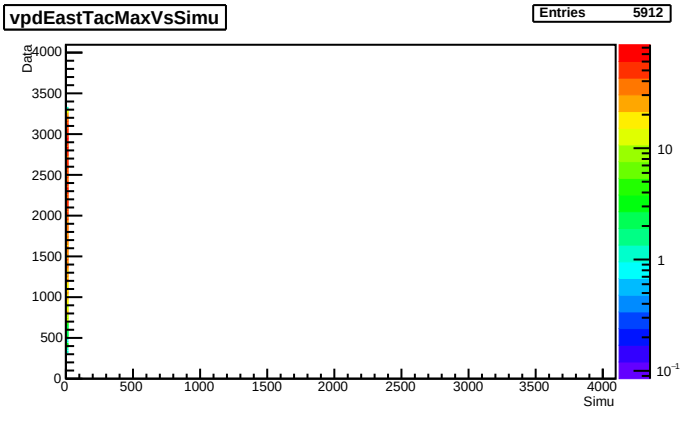

epdWestNHits
Entries 15382

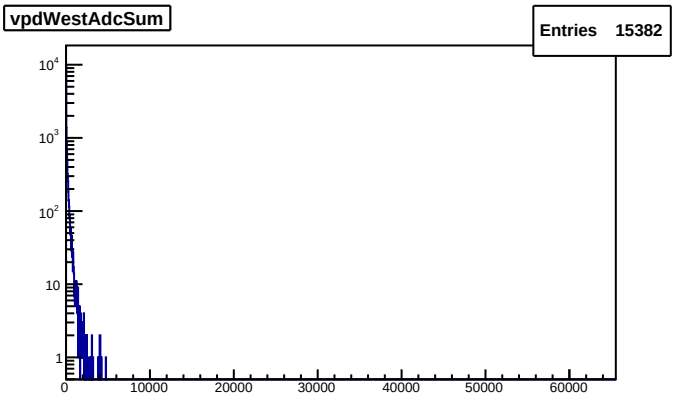

epdWestNHitsVsSimu
Entries 0
Data
Simu

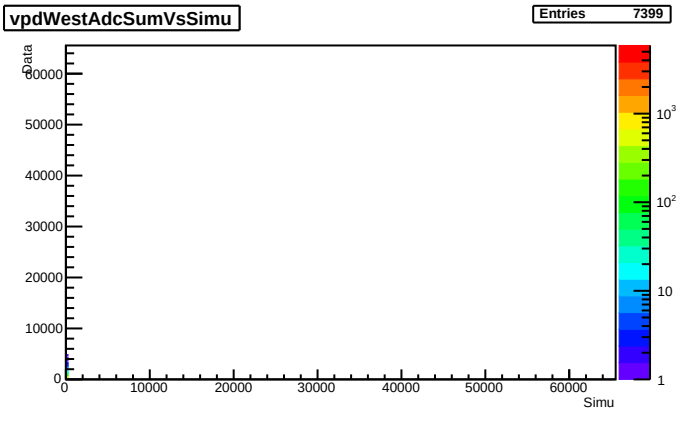

vpdEastAdcSum
Entries 15382

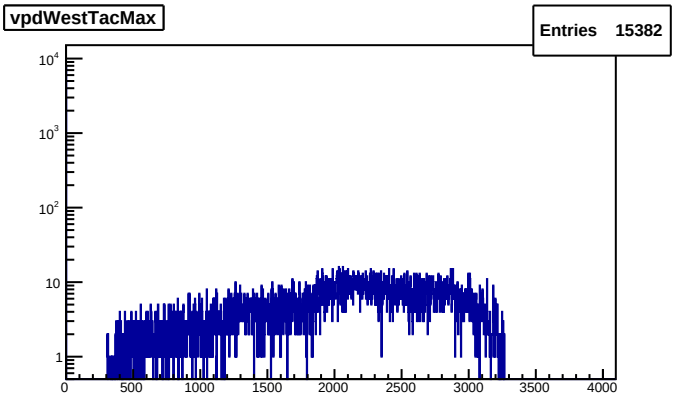

vpdEastAdcSumVsSimu
Entries 5912
Data
Simu

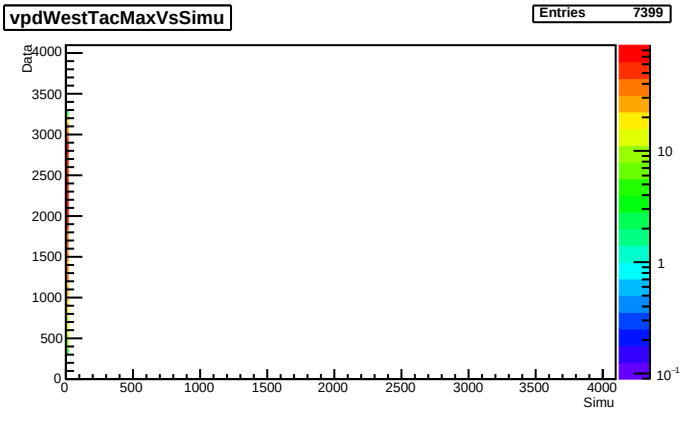

vpdEastTacMax
Entries 15382

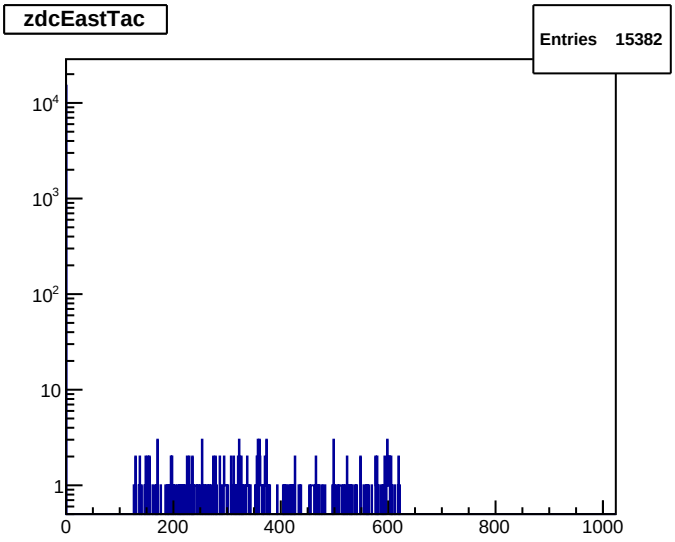

vpdEastTacMaxVsSimu
Entries 5912
Data
Simu

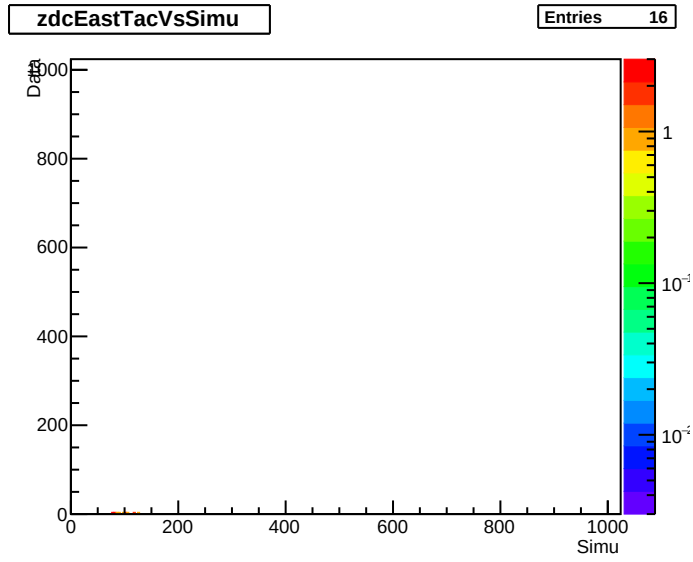

vpdWestAdcSum
Entries 15382

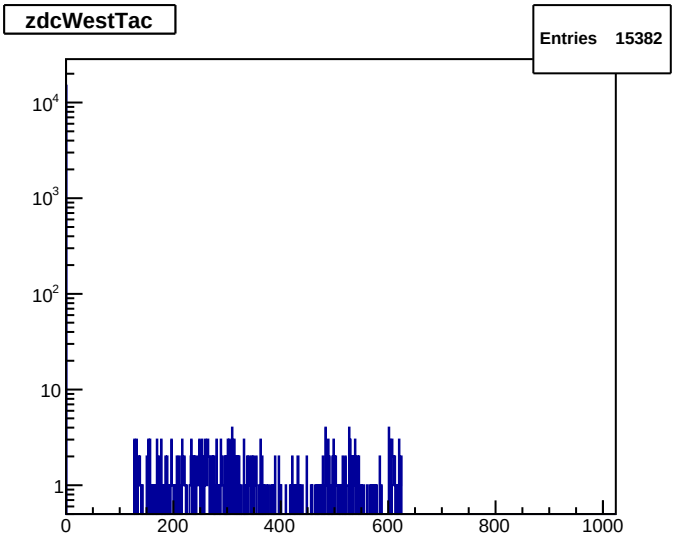

vpdWestAdcSumVsSimu
Entries 7399
Data
Simu

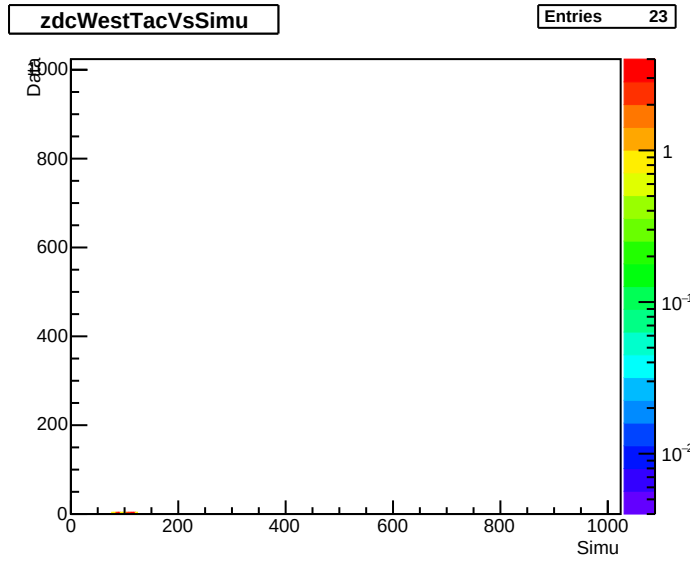

vpdWestTacMax
Entries 15382

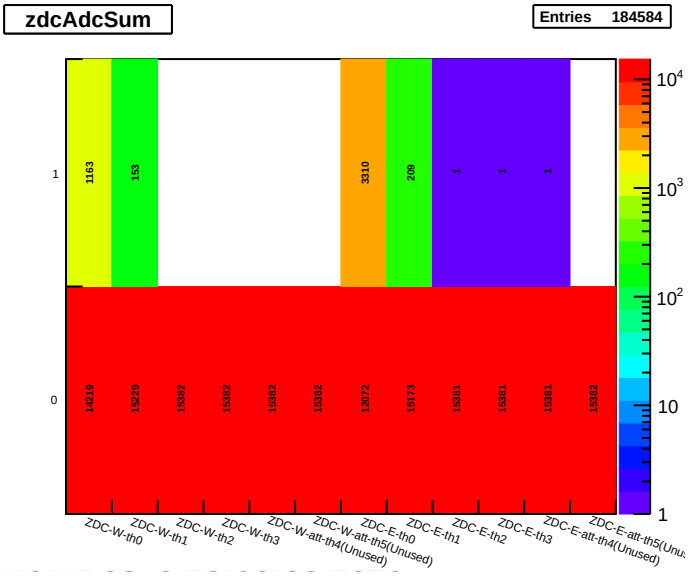

vpdWestTacMaxVsSimu
Entries 7399
Data
Simu

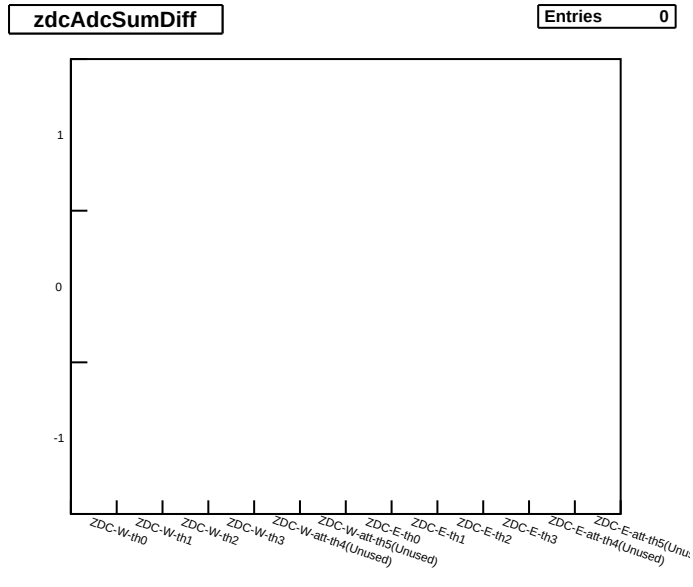

zdcEastTac
Entries 15382

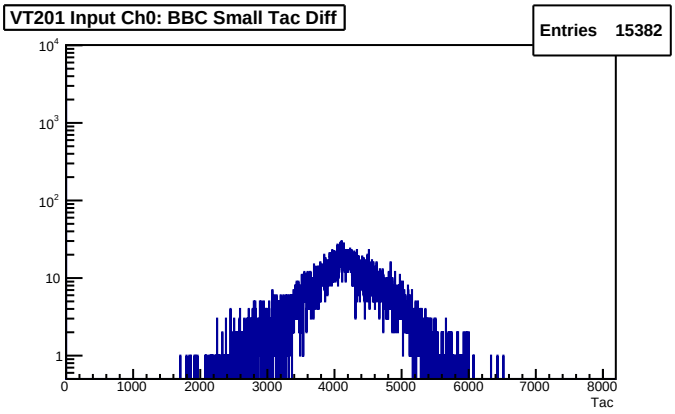

zdcEastTacVsSimu
Entries 16
Data
Simu

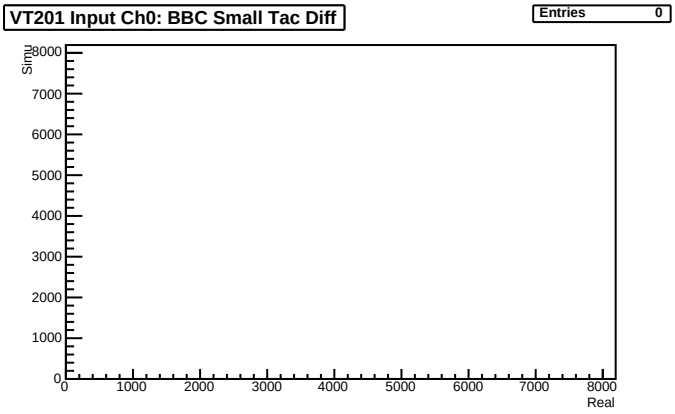

zdcWestTac
Entries 15382

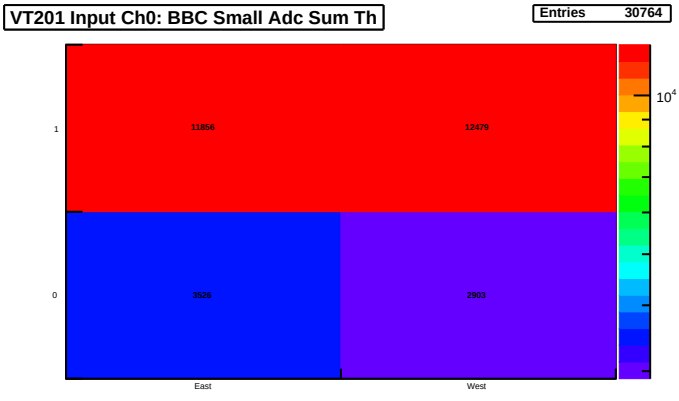

zdcWestTacVsSimu
Entries 23
Data
Simu

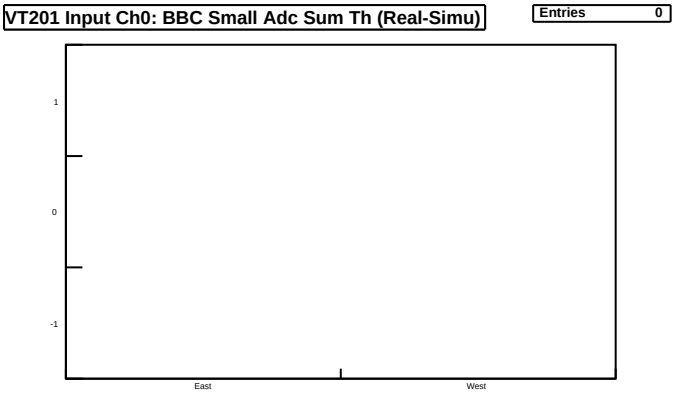

zdcAdcSum
Entries 184584
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

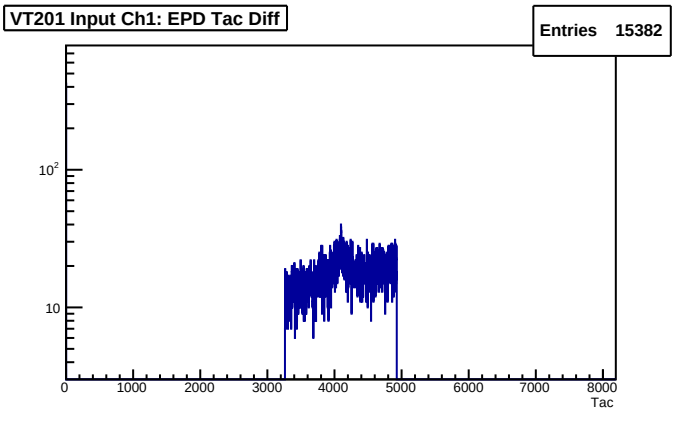

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

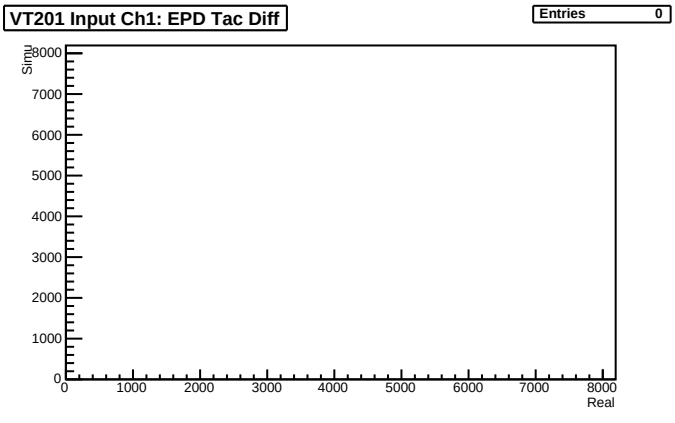

VT201 Input Ch0: BBC Small Tac Diff
Entries 15382
Tac

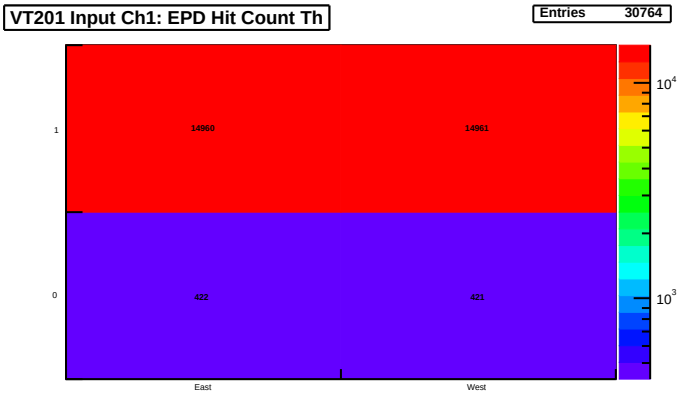

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

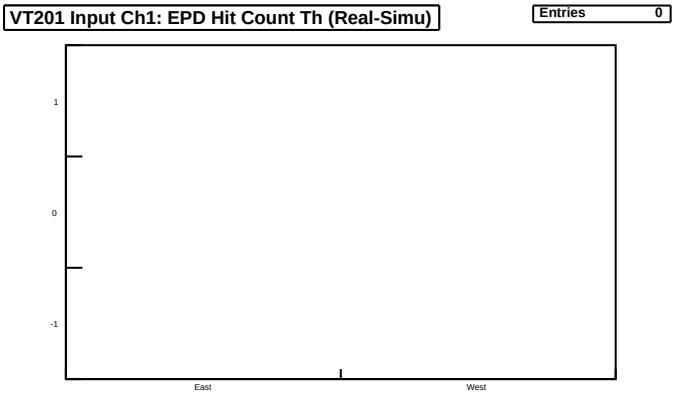

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 30764
11856
12479
3526
2903
East
West

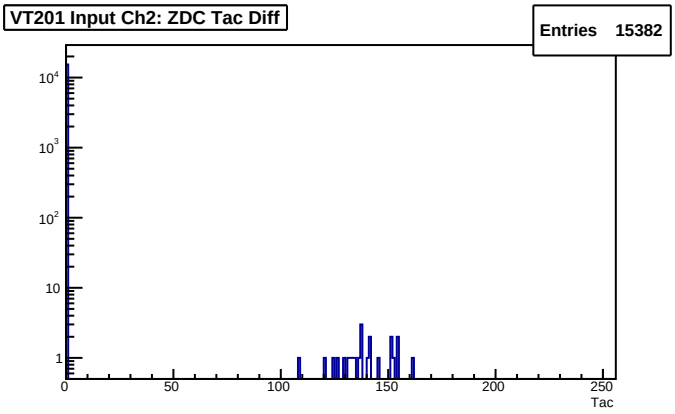

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

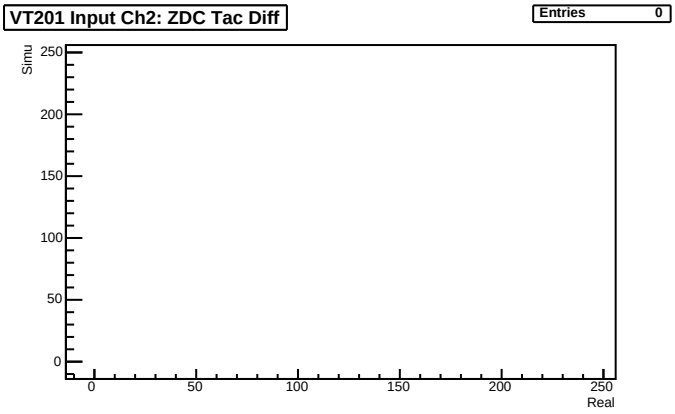

VT201 Input Ch1: EPD Tac Diff
Entries 15382
Tac

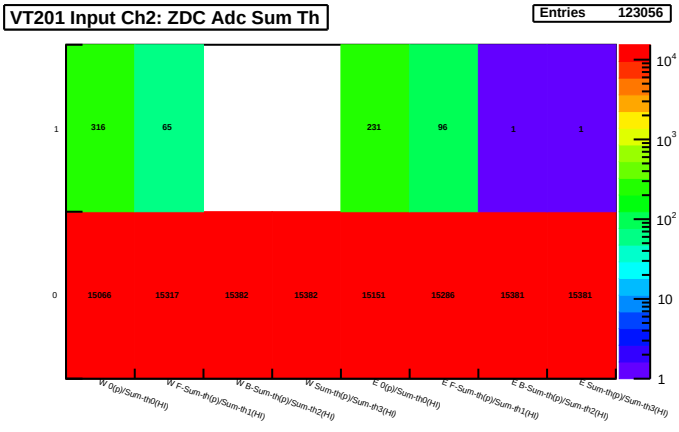

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

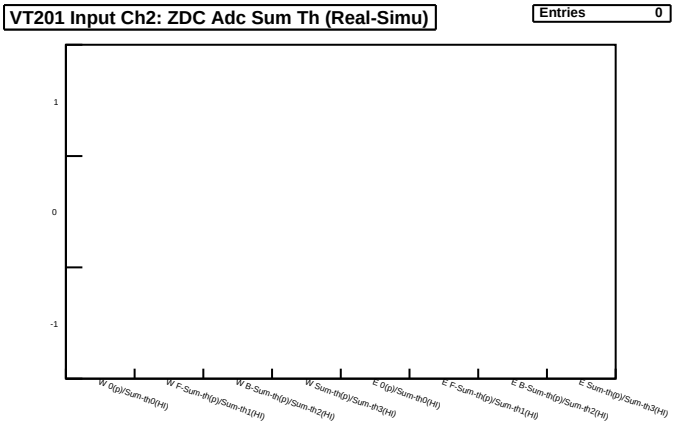

VT201 Input Ch1: EPD Hit Count Th
Entries 30764
14960
14961
422
421
East
West

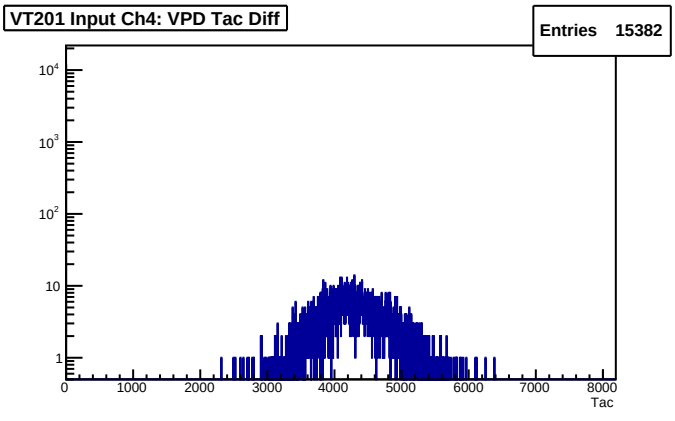

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

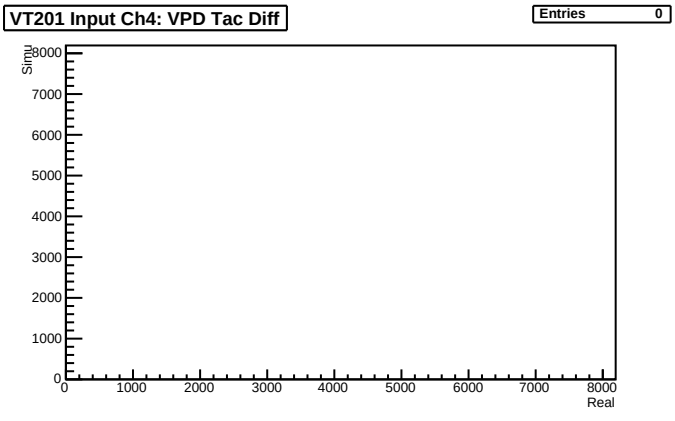

VT201 Input Ch2: ZDC Tac Diff
Entries 15382
Tac

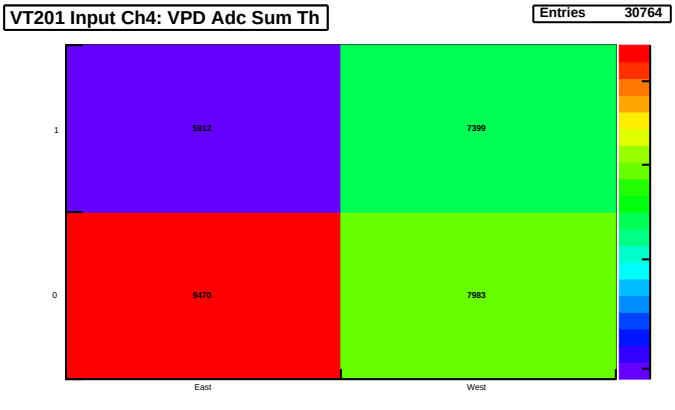

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

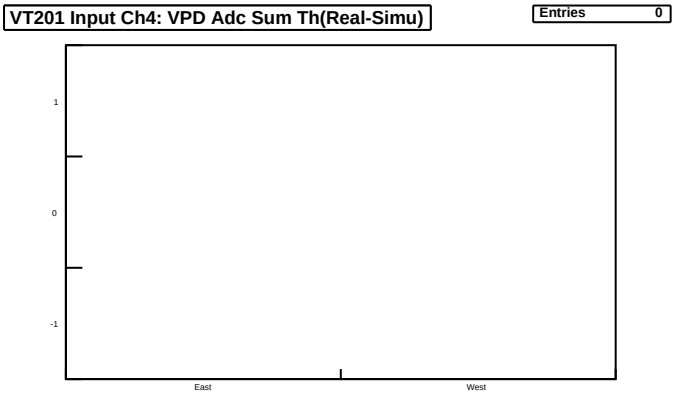

VT201 Input Ch2: ZDC Adc Sum Th
Entries 123056
316
65
231
96
1
1
15066
15317
15382
15382
15151
15286
15381
15381
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

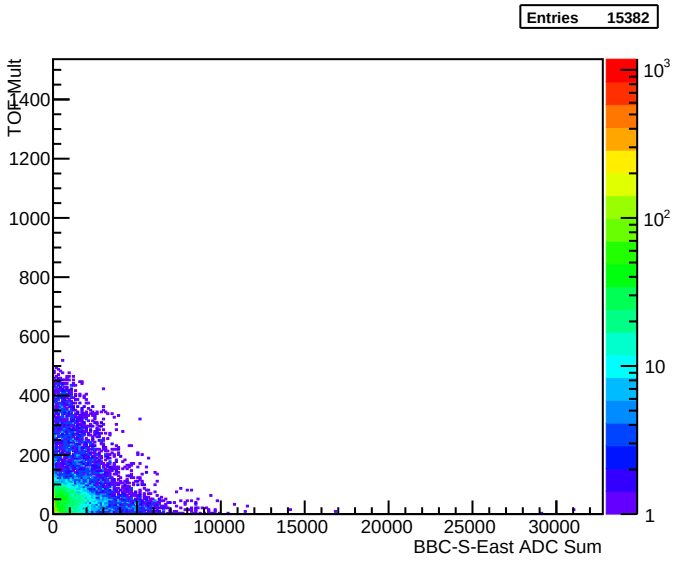

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

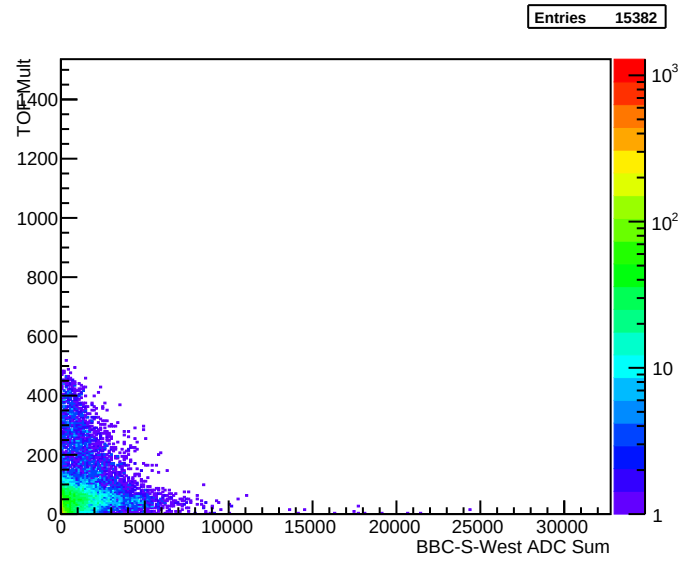

VT201 Input Ch4: VPD Tac Diff
Entries 15382
Tac

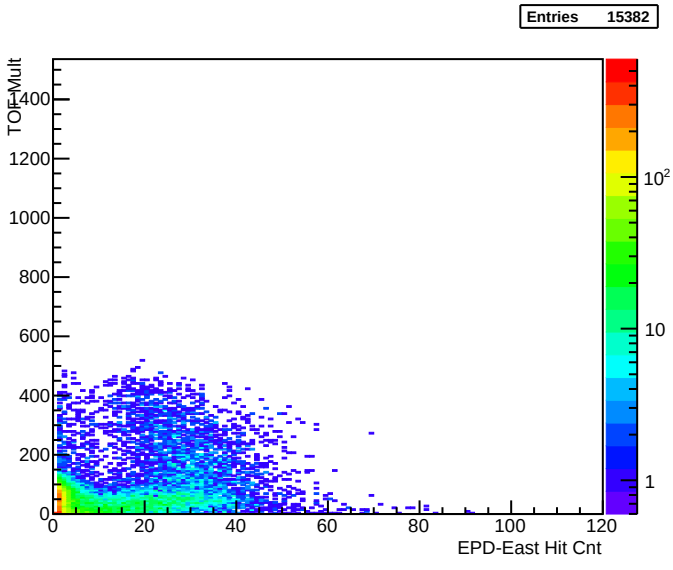

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

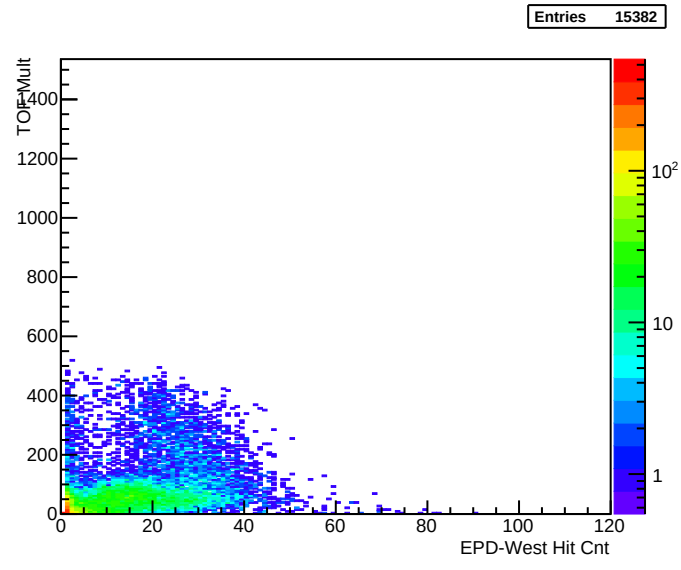

VT201 Input Ch4: VPD Adc Sum Th
Entries 30764
5912
7399
9470
7983
East
West

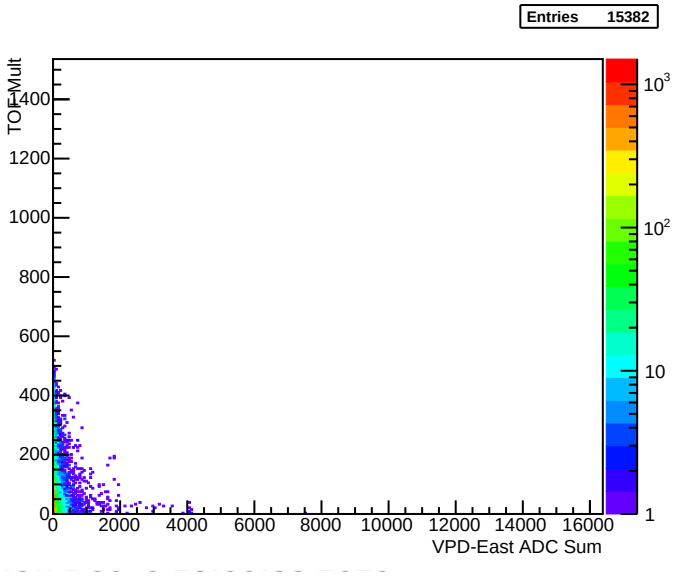

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

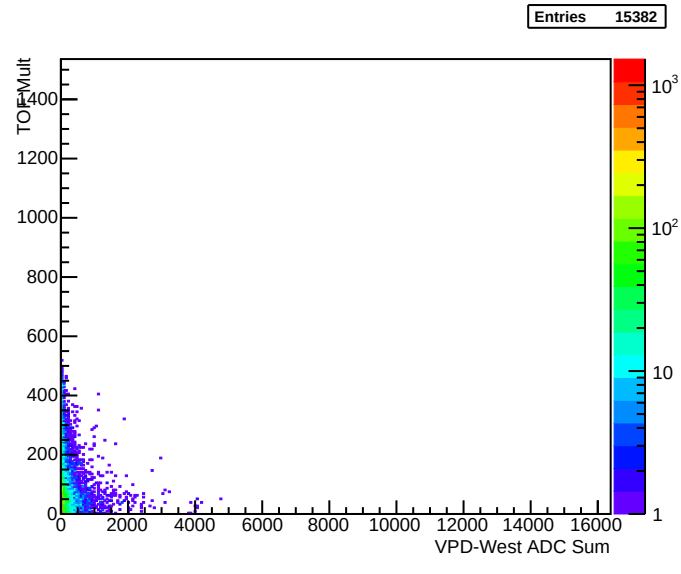

Entries 15382
TOF-Mult
BBC-S-East ADC Sum

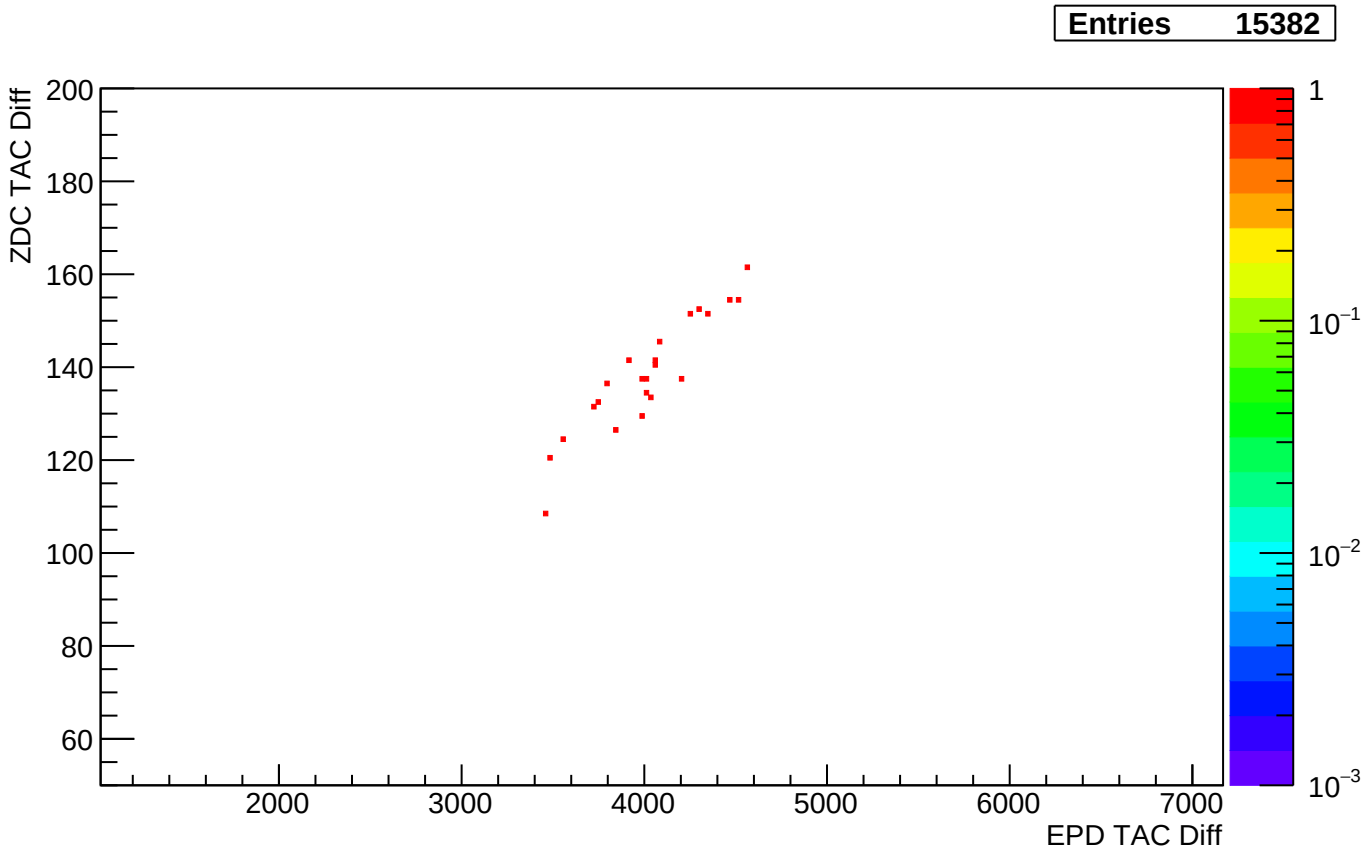

Entries 15382
TOF-Mult
BBC-S-West ADC Sum

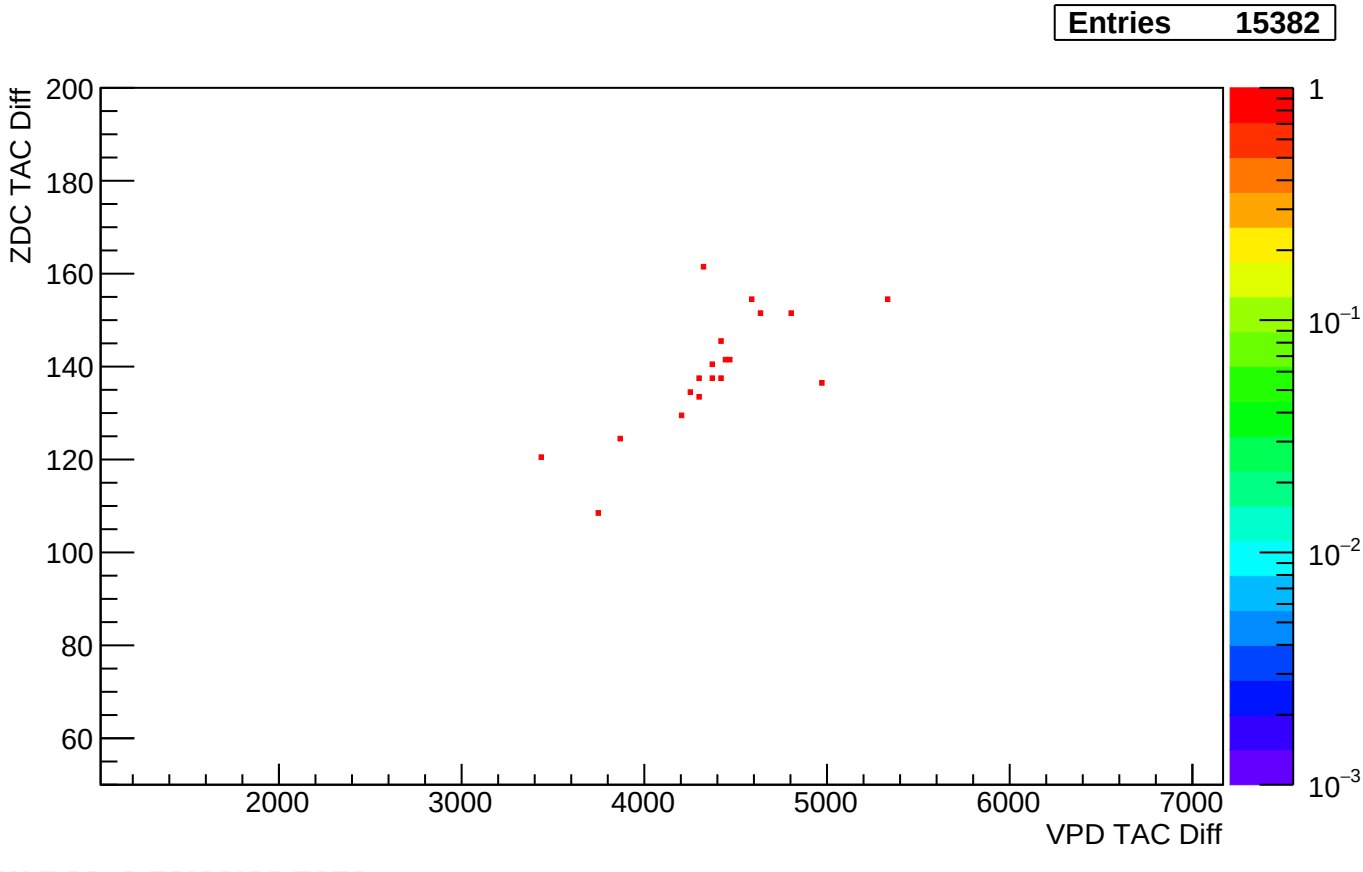

Entries 15382
TOF-Mult
EPD-East Hit Cnt

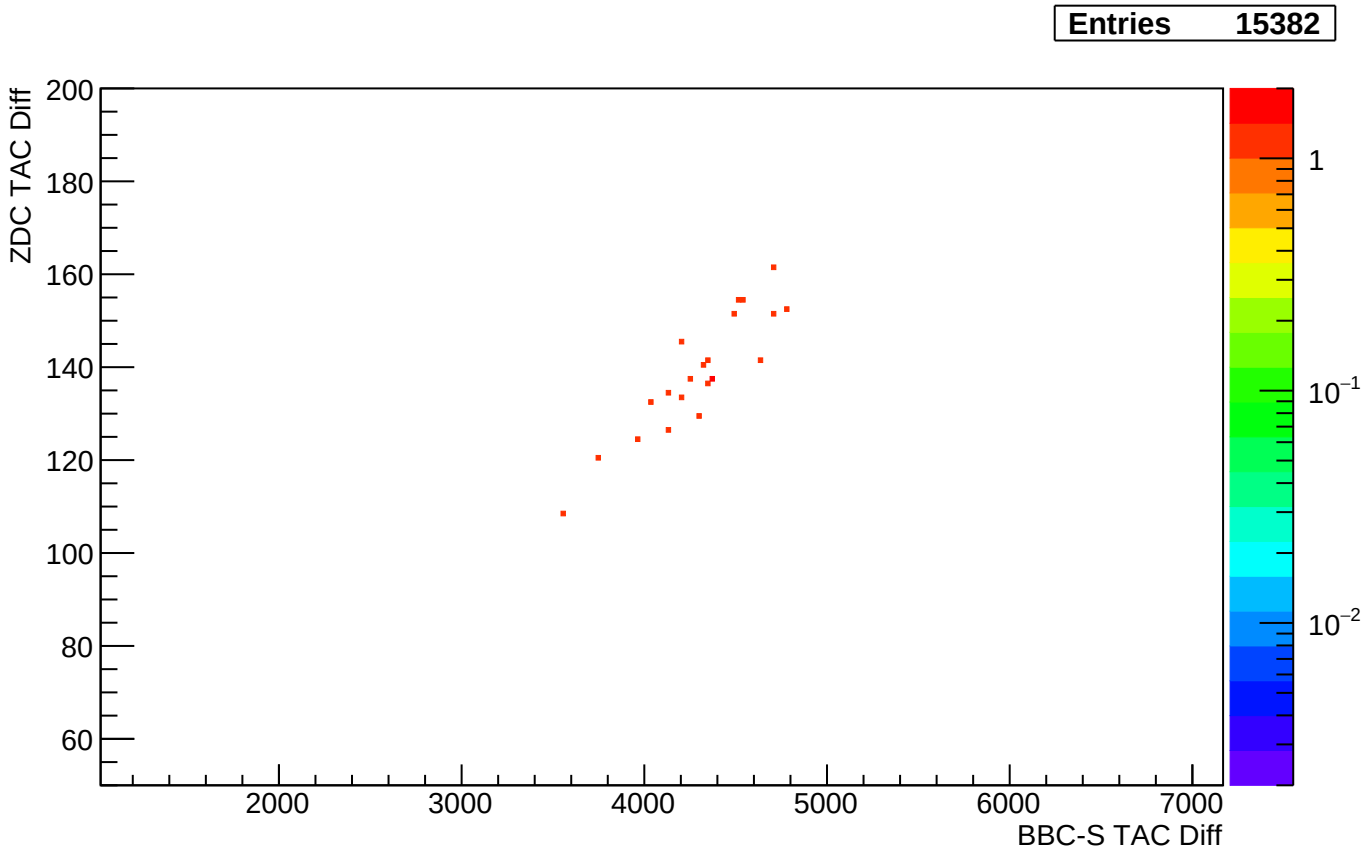

Entries 15382
TOF-Mult
EPD-West Hit Cnt

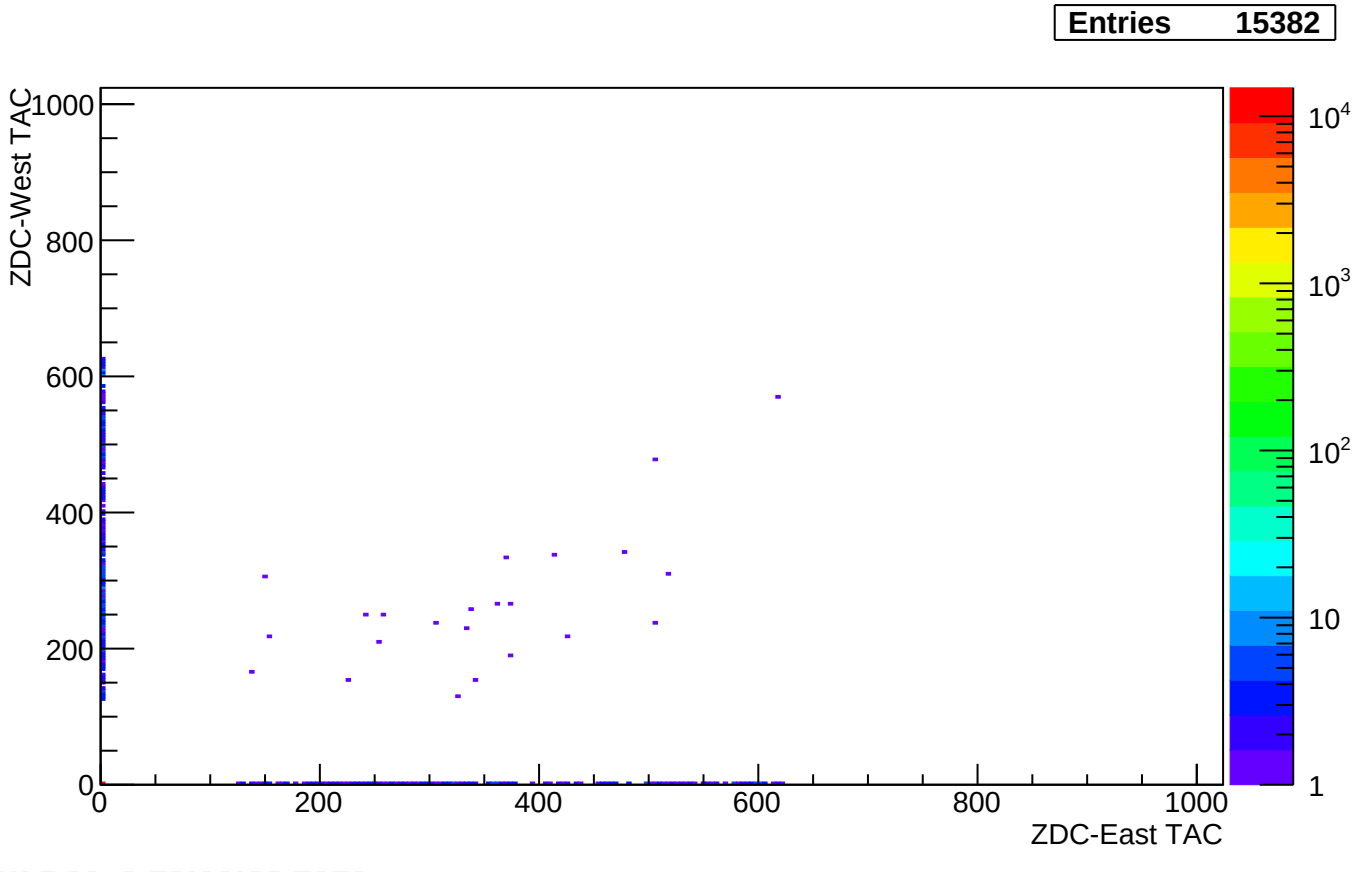

Entries 15382
TOF-Mult
VPD-East ADC Sum

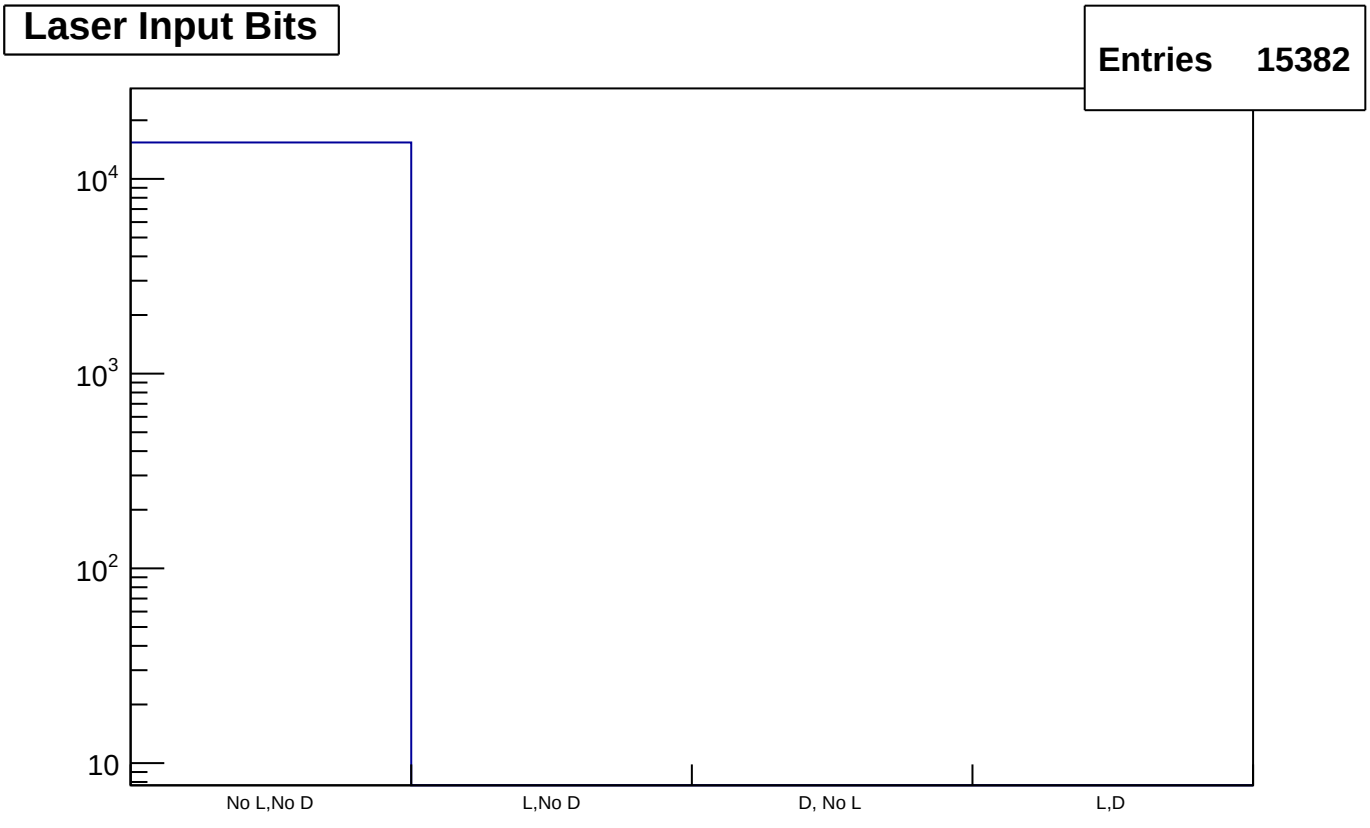

Entries 15382
TOF-Mult
VPD-West ADC Sum

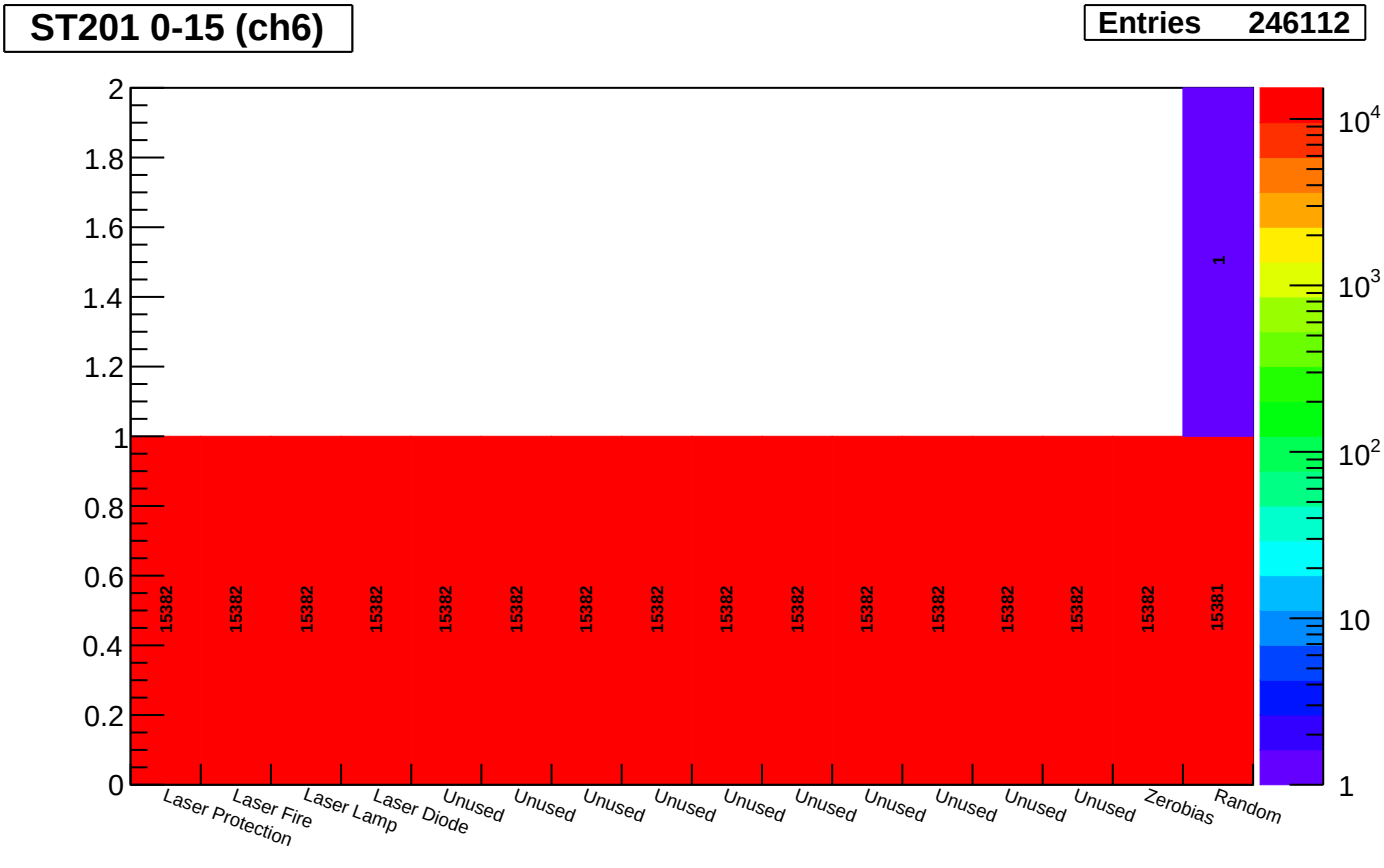

Entries 15382
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

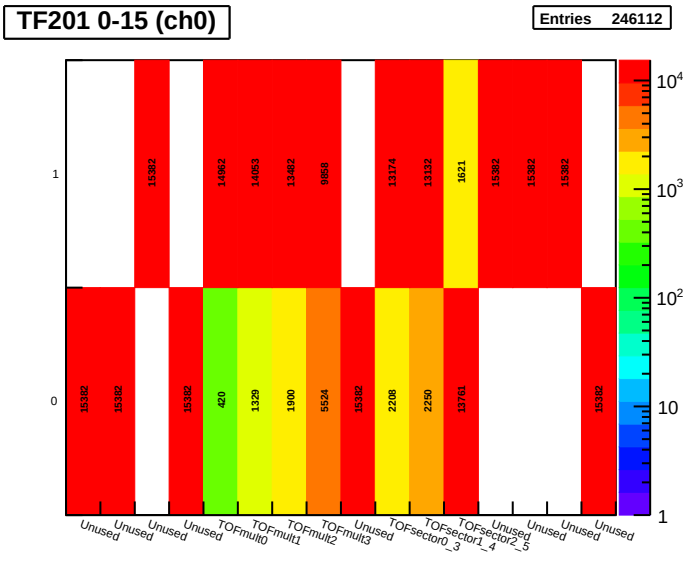

Entries 15382
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

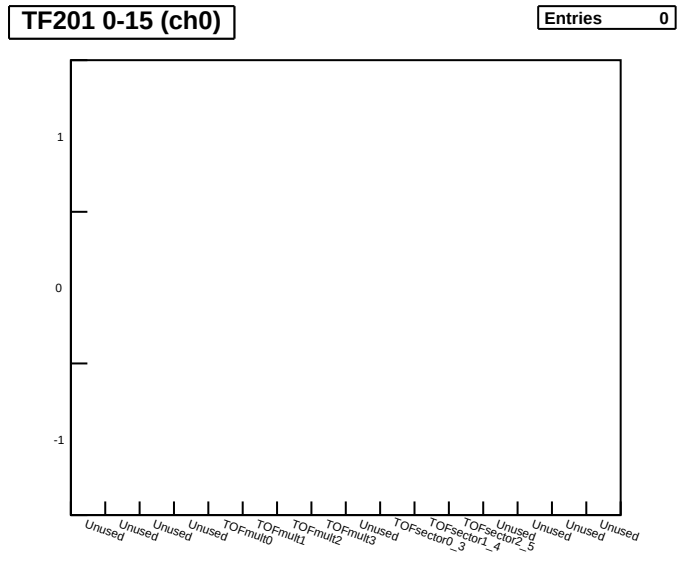

Entries 15382
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

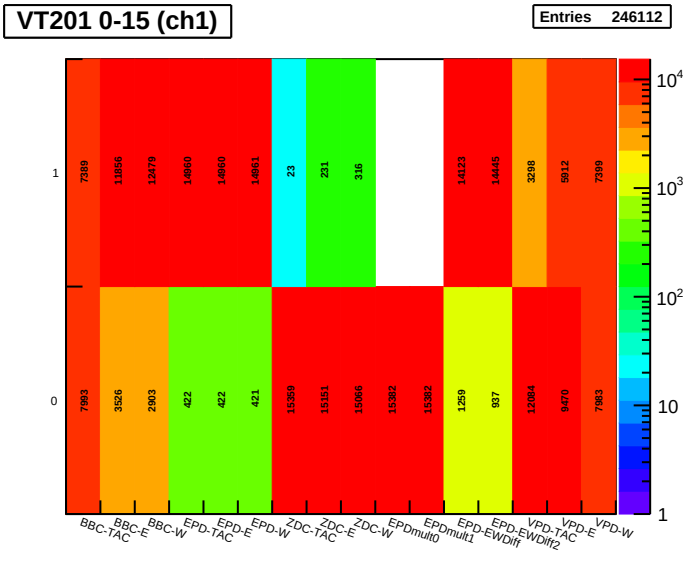

Entries 15382
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

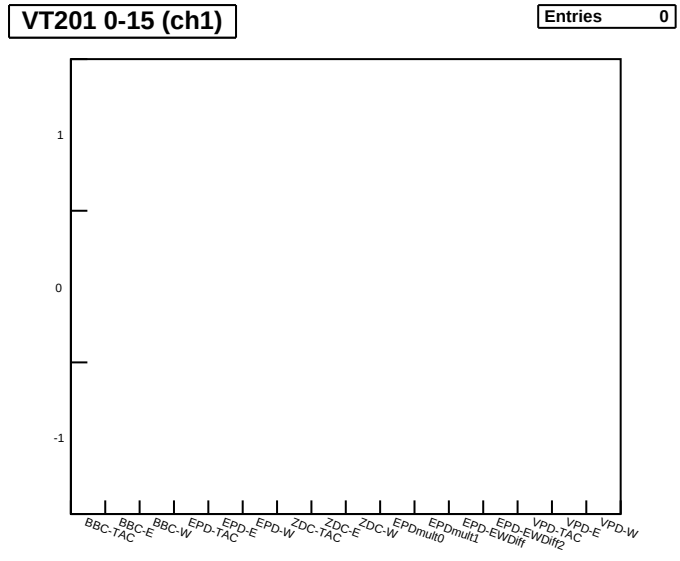

Laser Input Bits
Entries 15382
10^4
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

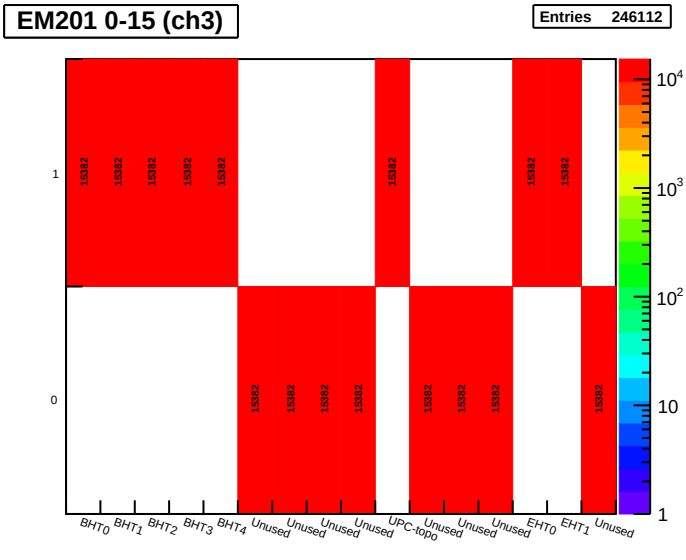

ST201 0-15 (ch6)
Entries 246112
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
15382
15381
1
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

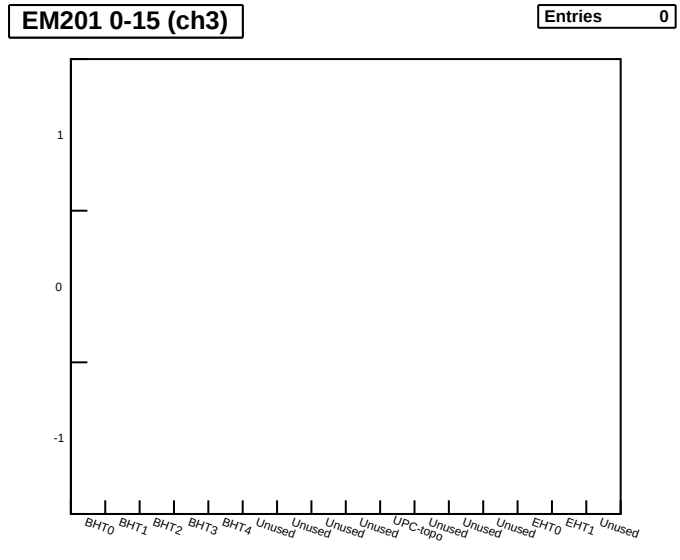

TF201 0-15 (ch0)
Entries 246112
1
0
15382
14962
14053
13482
9858
13174
13132
1621
15382
15382
15382
15382
15382
15382
420
1329
1900
5524
15382
2208
2250
13761
15382
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
10^4
10^3
10^2
10
1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5


VT201 0-15 (ch1)
Entries 246112
1
0
7389
11856
12479
14960
14960
14961
23
231
316
14123
14445
3298
5912
7399
7993
3526
2903
422
422
421
15359
15151
15066
15382
15382
1259
937
12084
9470
7983
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 246112
1
0
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
15382
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1
10^4
10^3
10^2
10
1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1