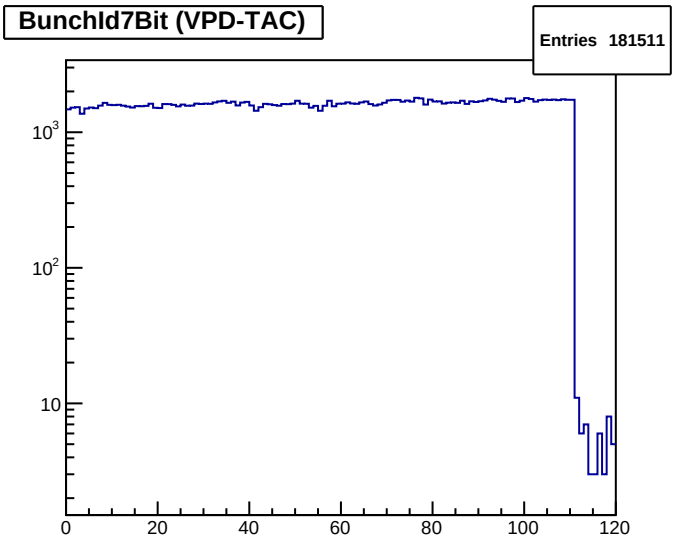
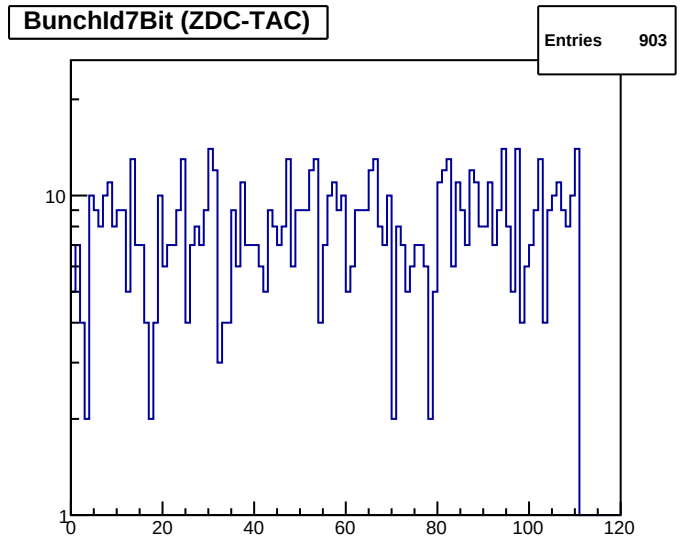
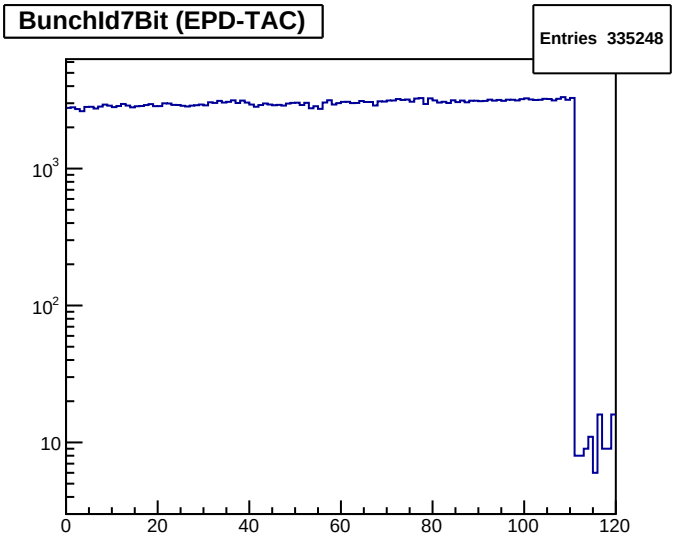
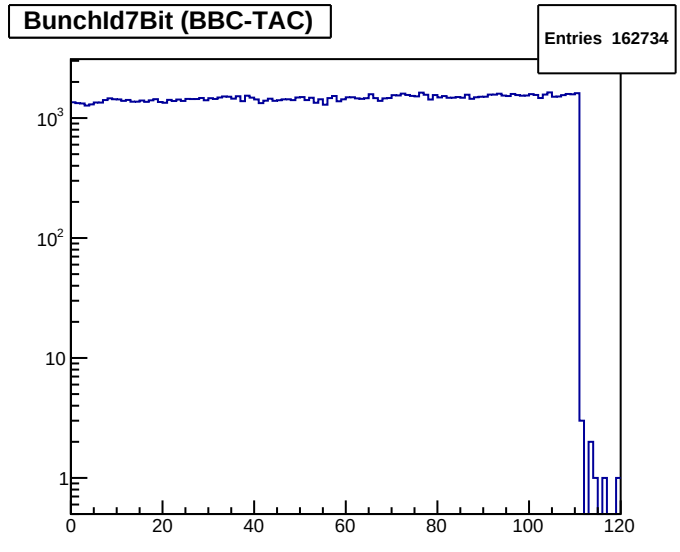
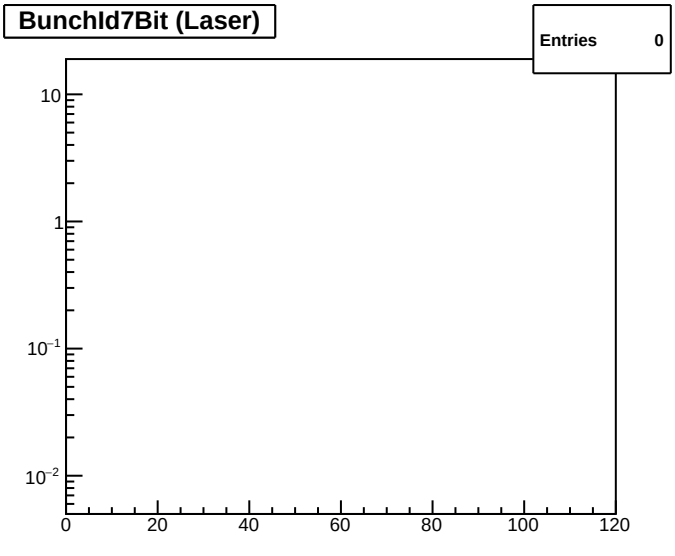
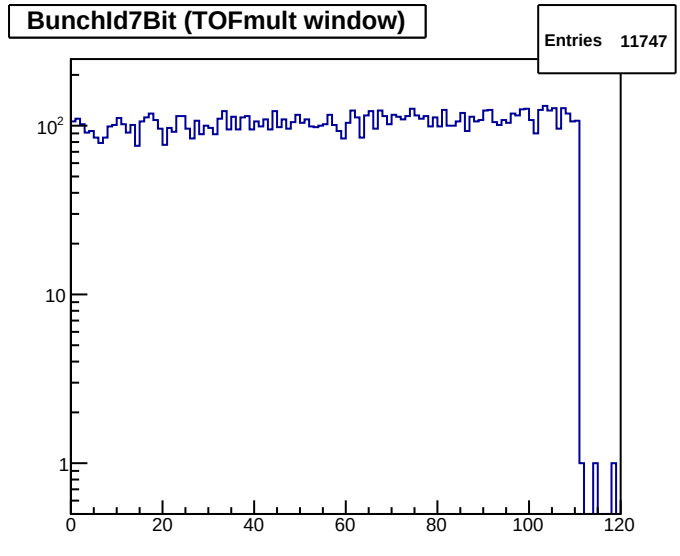

BunchId7Bit (VPD-TAC)
Entries 181511
10^3
10^2
10
0
20
40
60
80
100
120

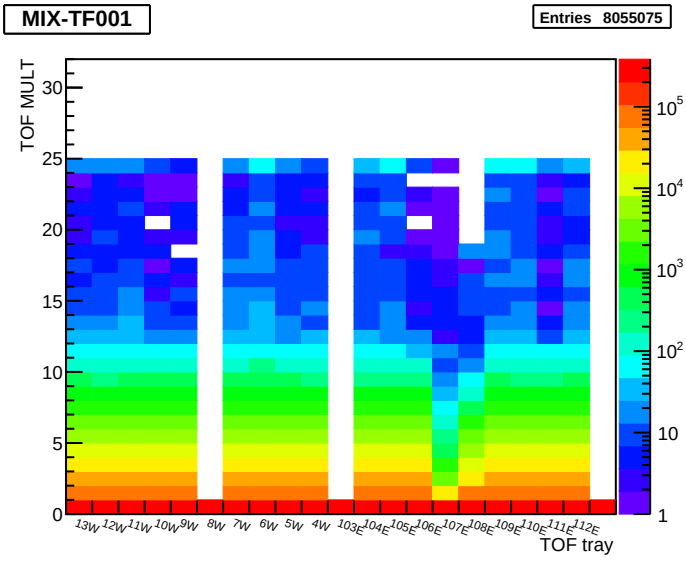

BunchId7Bit (ZDC-TAC)
Entries 903
10
1
0
20
40
60
80
100
120

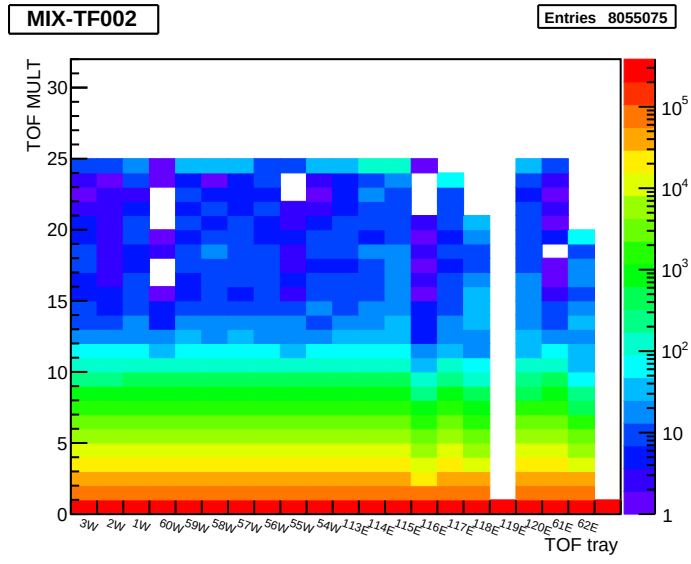

BunchId7Bit (EPD-TAC)
Entries 335248
10^3
10^2
10
0
20
40
60
80
100
120

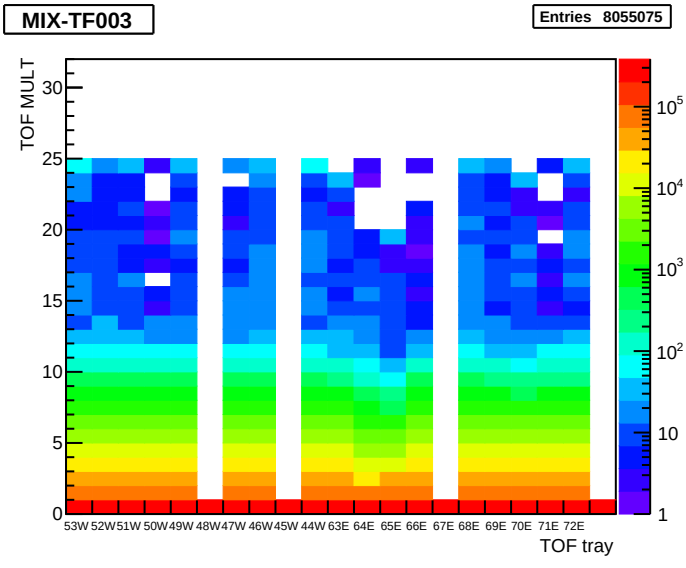

BunchId7Bit (BBC-TAC)
Entries 162734
10^3
10^2
10
1
0
20
40
60
80
100
120

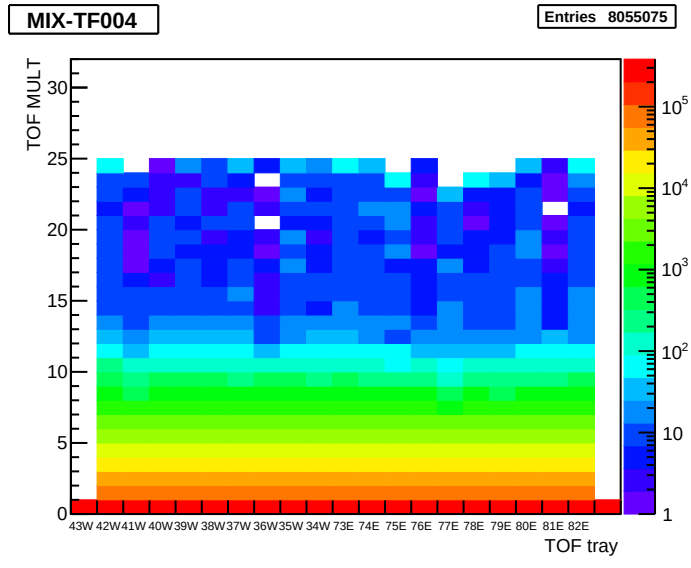

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

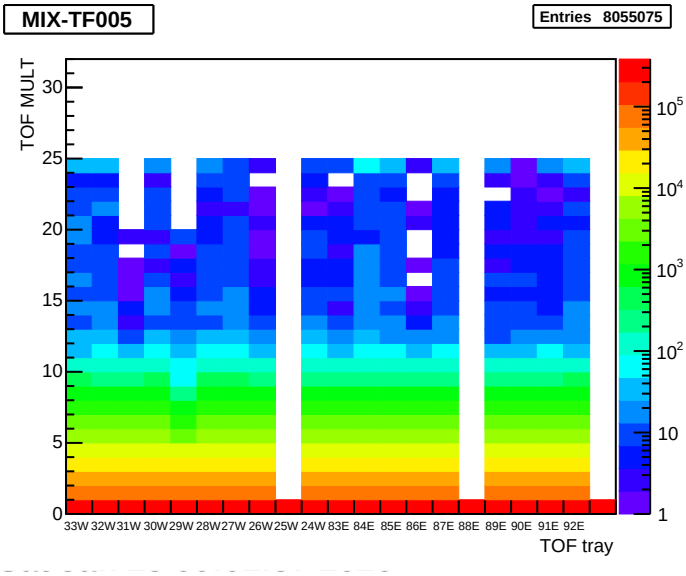

BunchId7Bit (TOFmult window)
Entries 11747
10^2
10
1
0
20
40
60
80
100
120

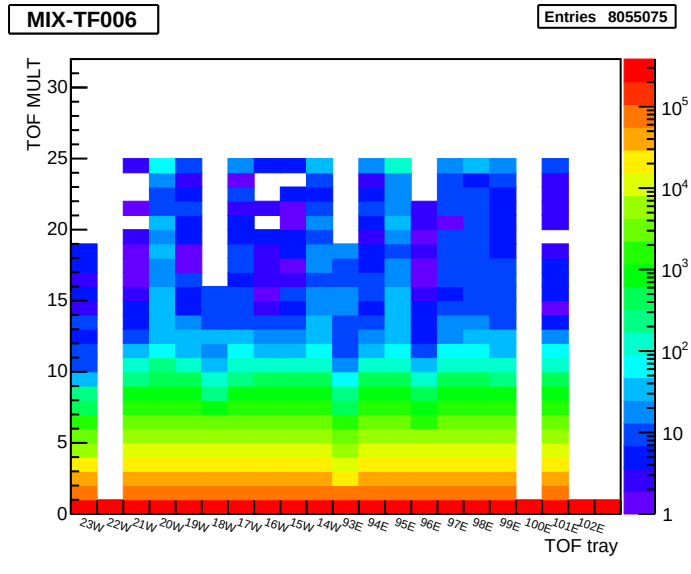

MIX-TF001
Entries 8055075
TOF MULT
TOF tray

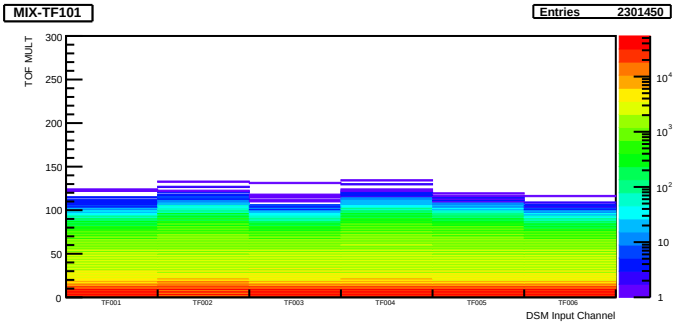

MIX-TF002
Entries 8055075
TOF MULT
TOF tray

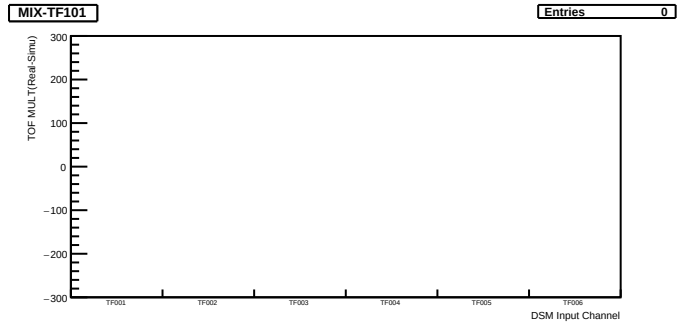

MIX-TF003
Entries 8055075
TOF MULT
TOF tray

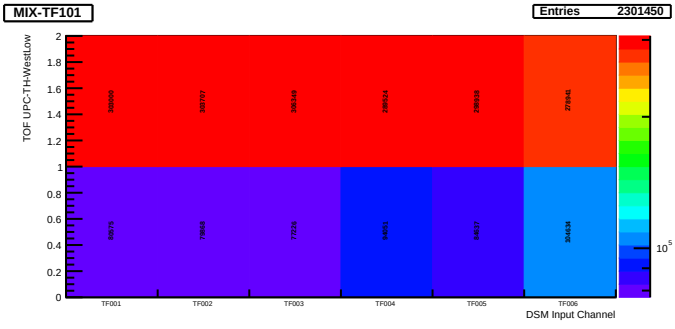

MIX-TF004
Entries 8055075
TOF MULT
TOF tray

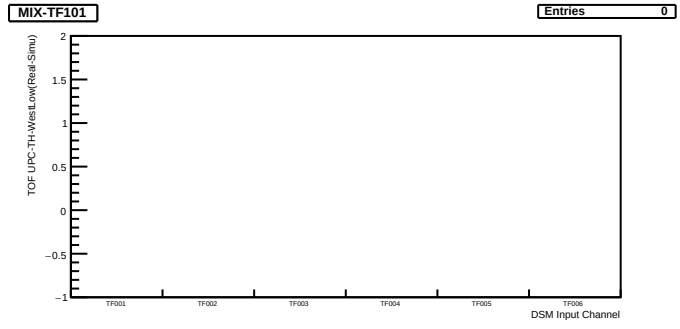

MIX-TF005
Entries 8055075
TOF MULT
TOF tray

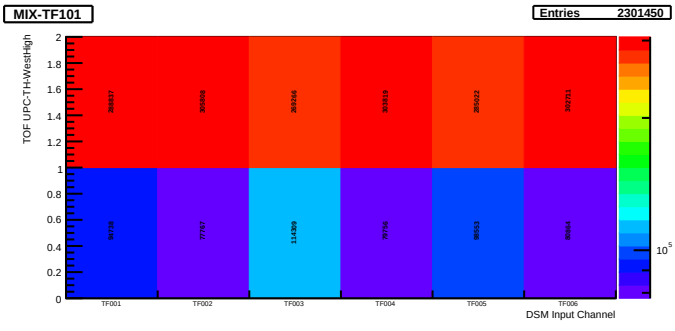

MIX-TF006
Entries 8055075
TOF MULT
TOF tray

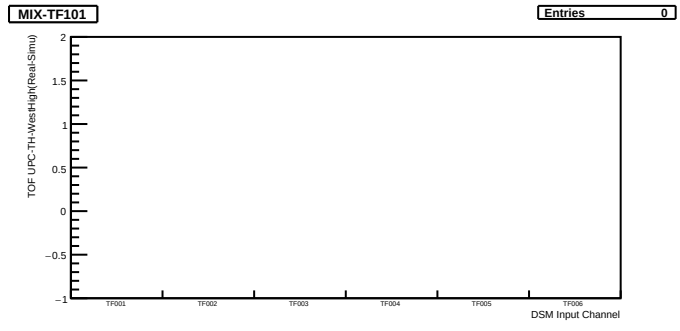

MIX-TF101
Entries 2301450
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

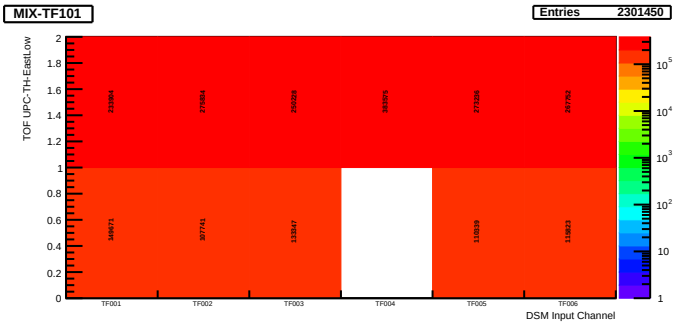

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

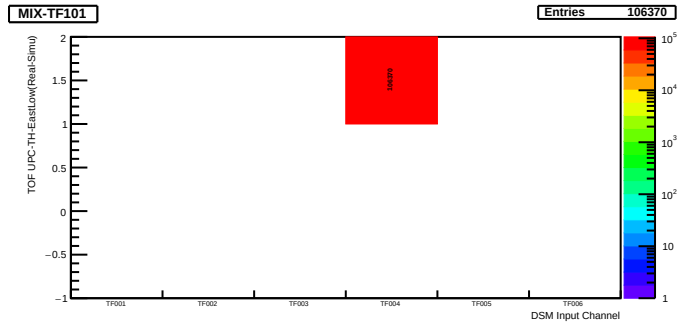

MIX-TF101
Entries 2301450
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

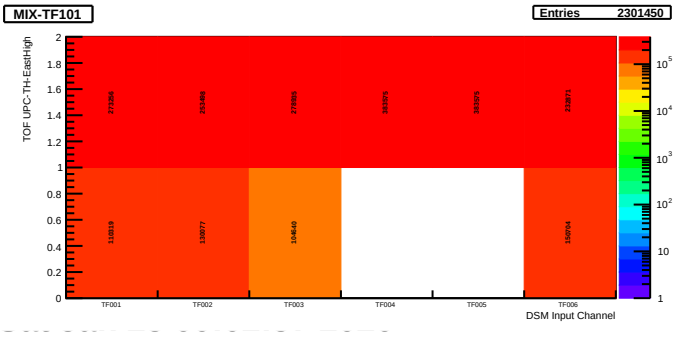

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

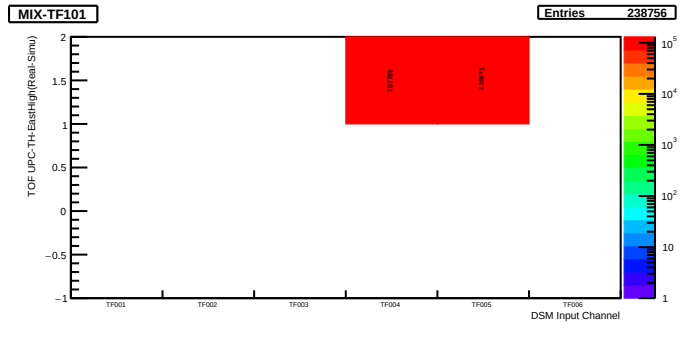

MIX-TF101
Entries 2301450
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

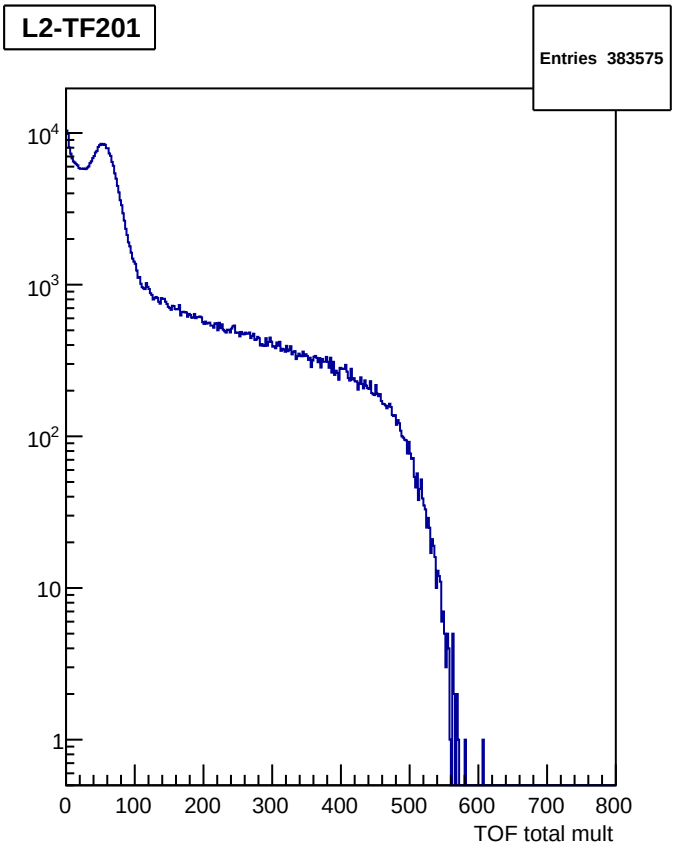

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

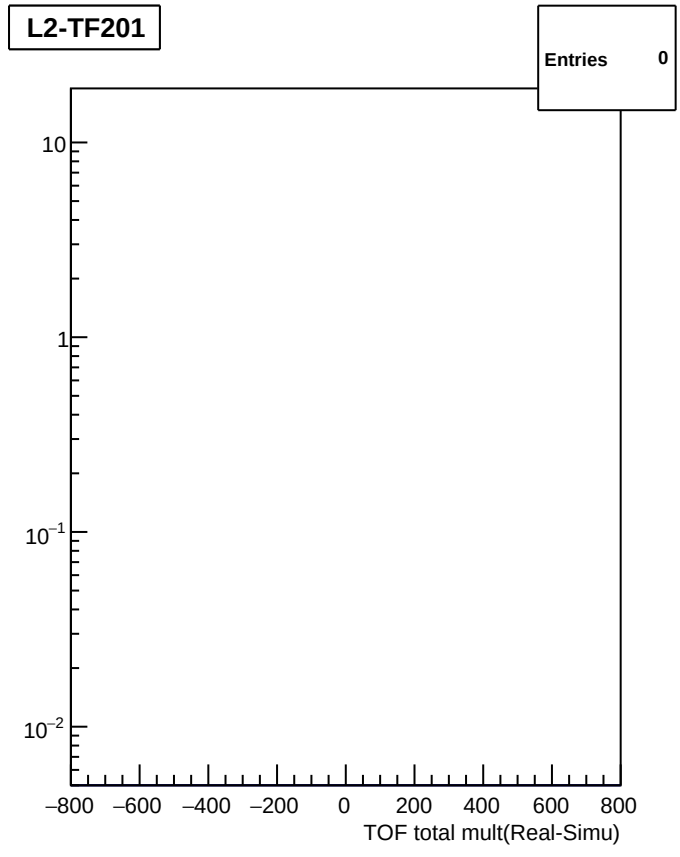

MIX-TF101
Entries 2301450
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

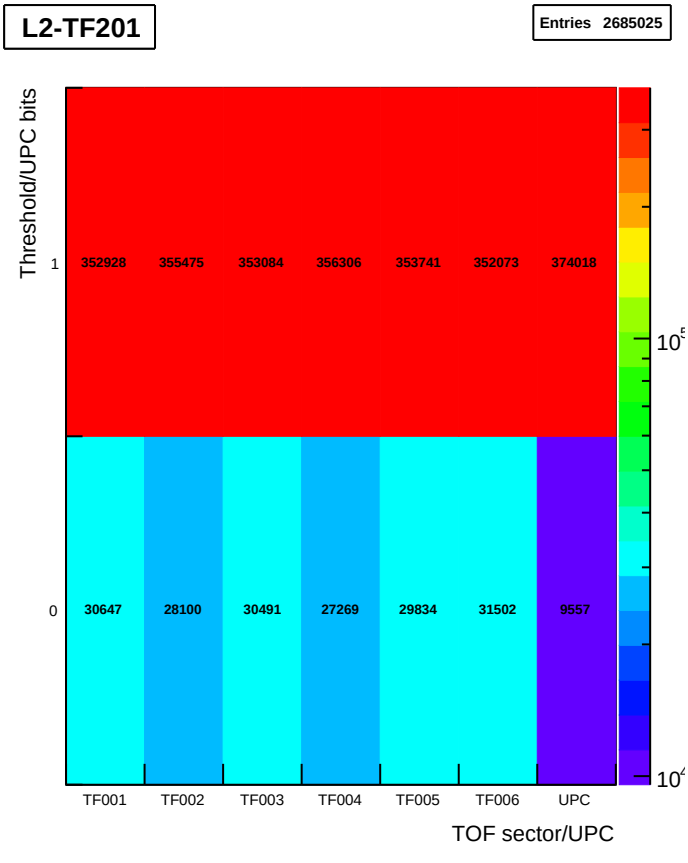

MIX-TF101
Entries 106370
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

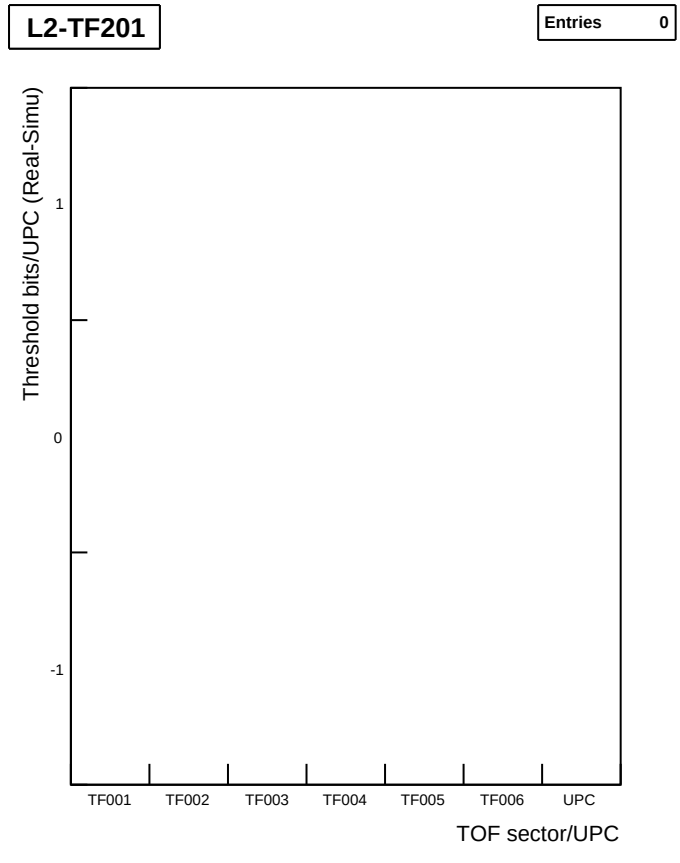

MIX-TF101
Entries 2301450
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

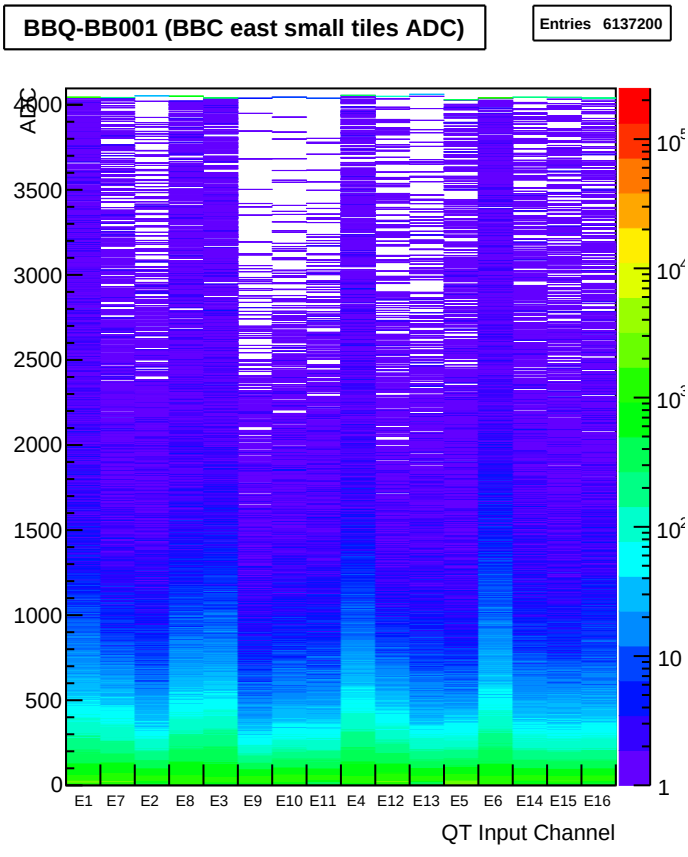

MIX-TF101
Entries 238756
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

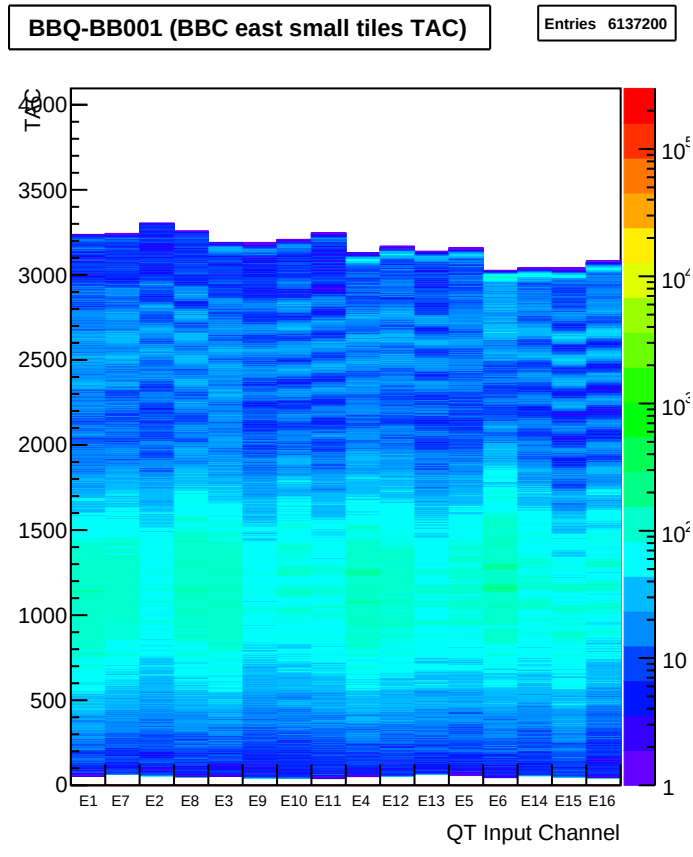

L2-TF201
Entries 383575
TOF total mult

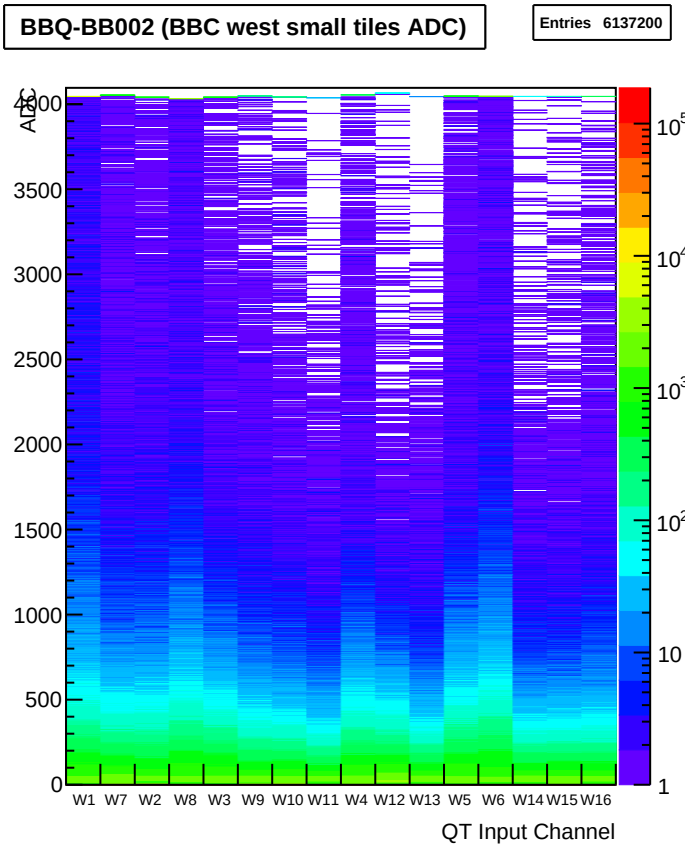

L2-TF201
Entries 0
TOF total mult(Real-Simu)

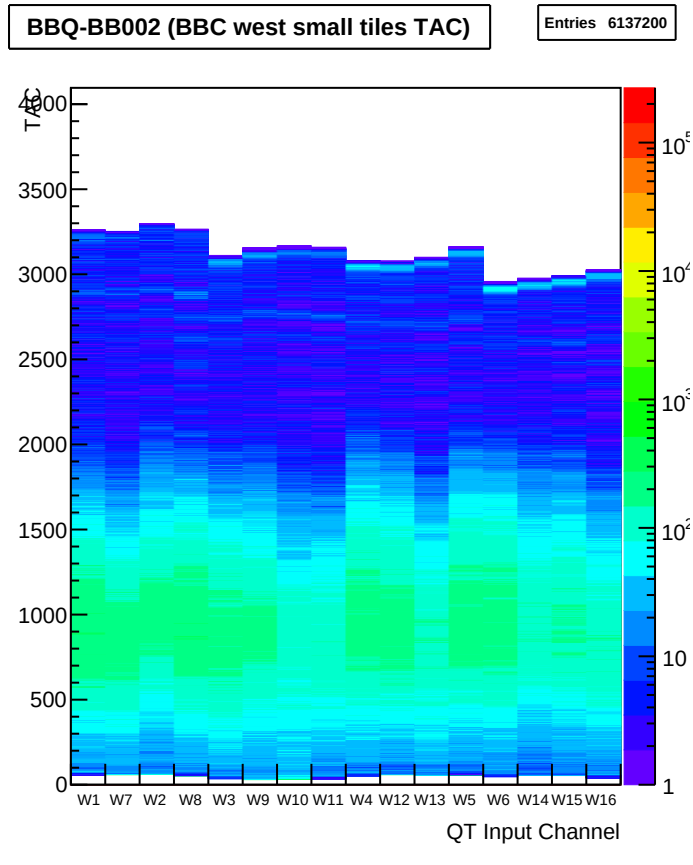

L2-TF201
Entries 2685025
Threshold/UPC bits
352928
355475
353084
356306
353741
352073
374018
30647
28100
30491
27269
29834
31502
9557
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

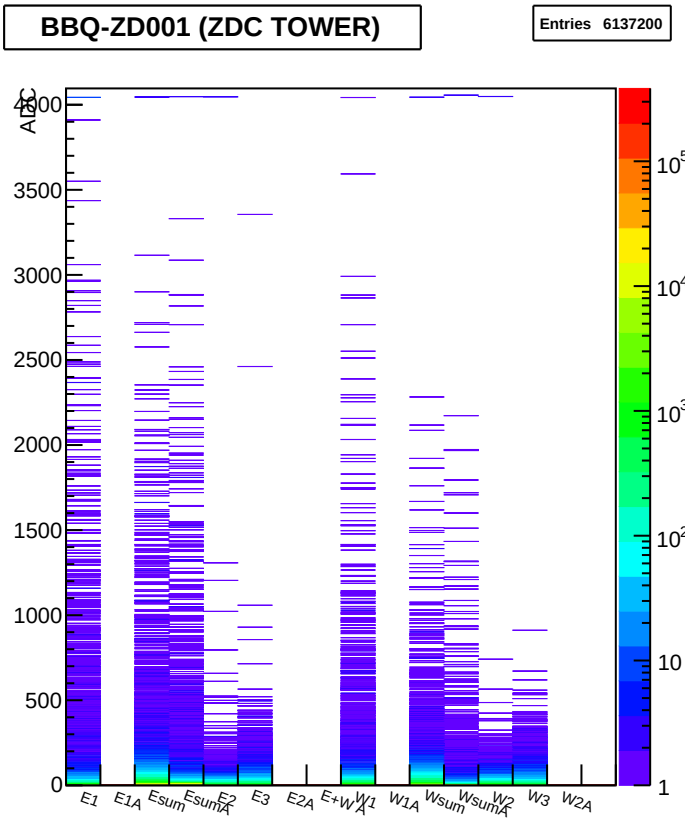

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

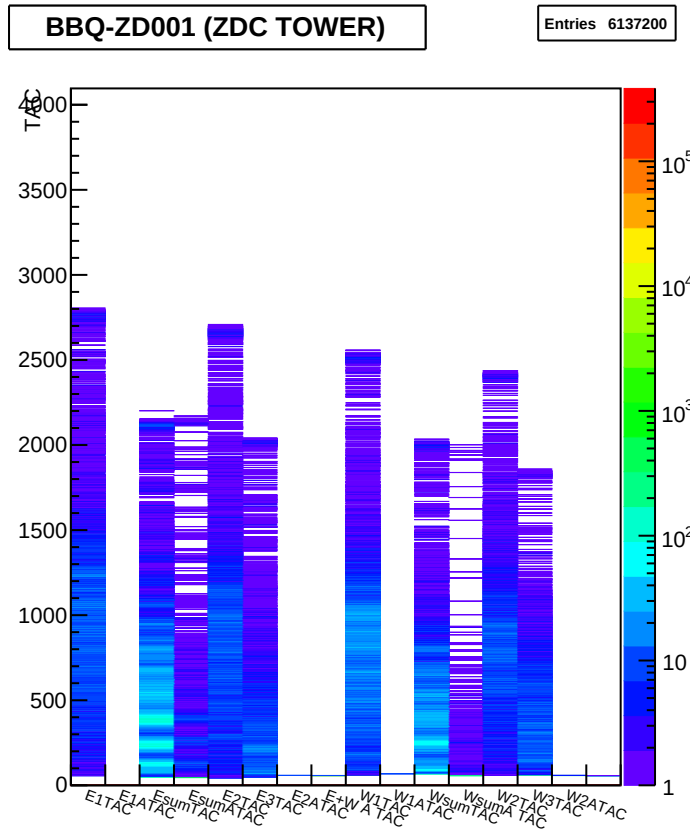

BBQ-BB001 (BBC east small tiles ADC)
Entries 6137200
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10^2
10^3
10^4
10^5

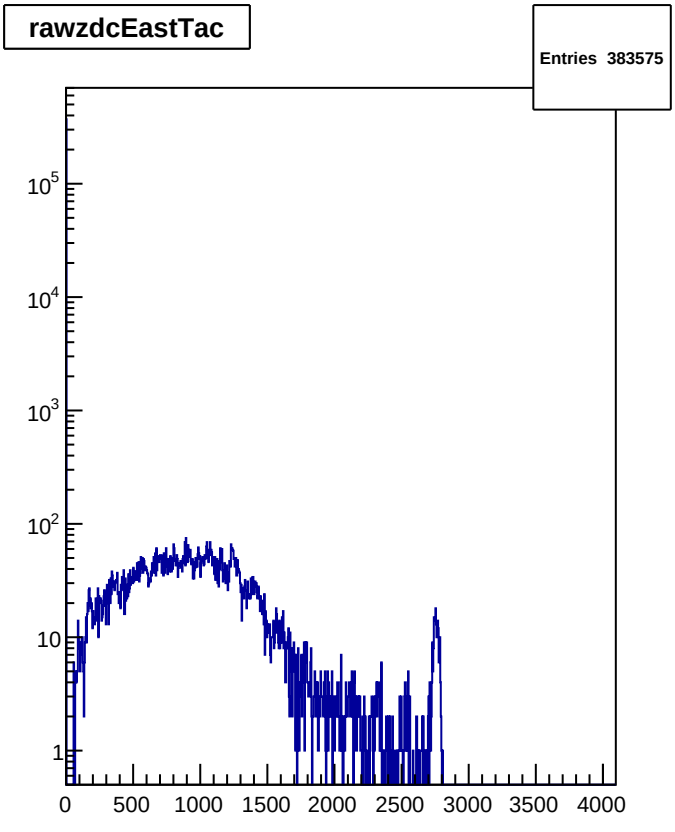

BBQ-BB001 (BBC east small tiles TAC)
Entries 6137200
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10^2
10^3
10^4
10^5

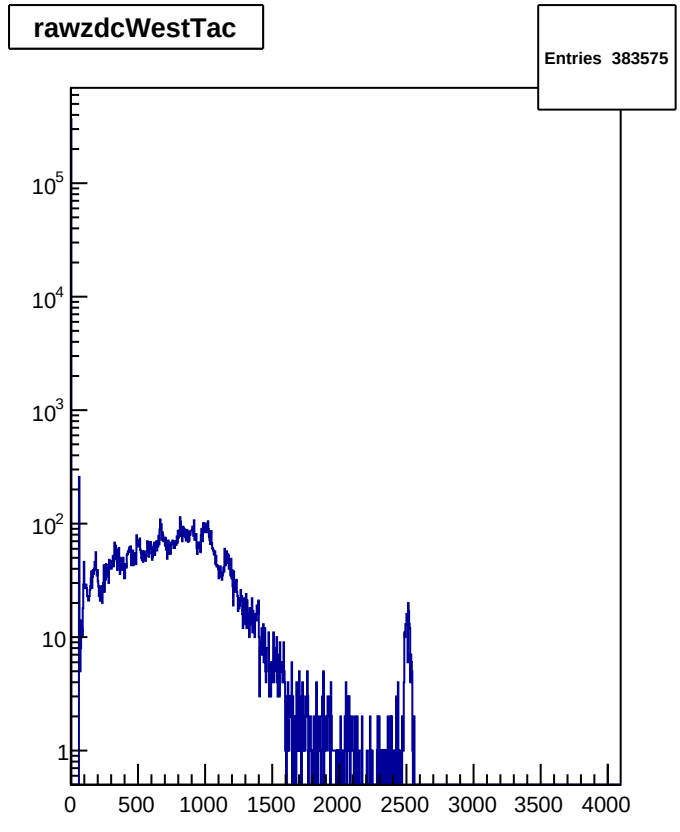

BBQ-BB002 (BBC west small tiles ADC)
Entries 6137200
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10^2
10^3
10^4
10^5

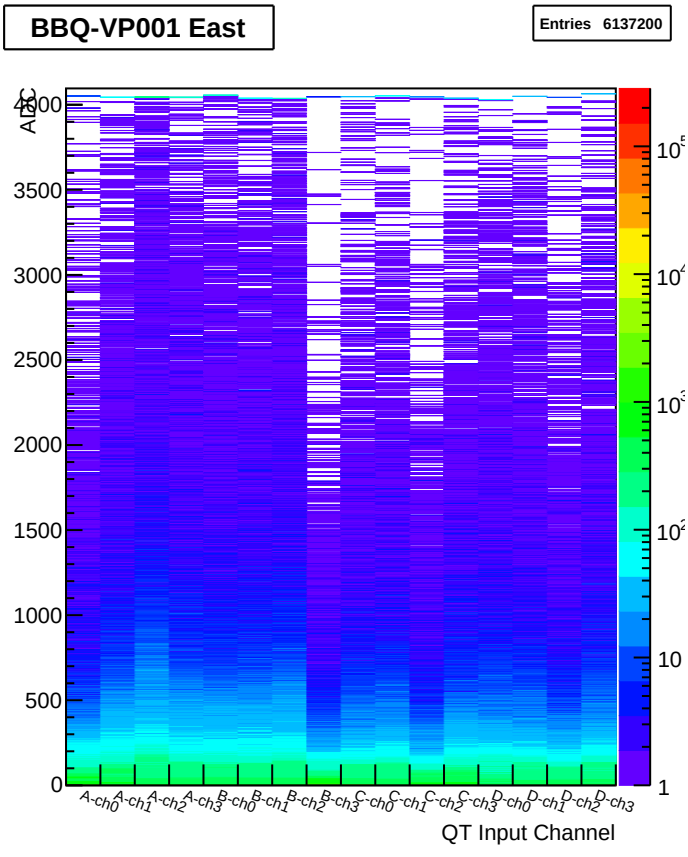

BBQ-BB002 (BBC west small tiles TAC)
Entries 6137200
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10^2
10^3
10^4
10^5

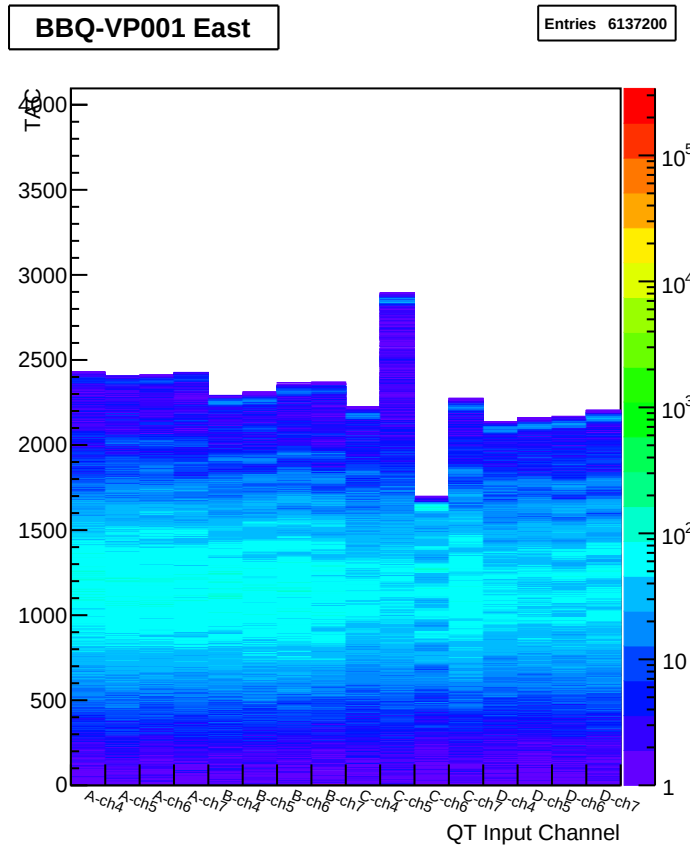

BBQ-ZD001 (ZDC TOWER)
Entries 6137200
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

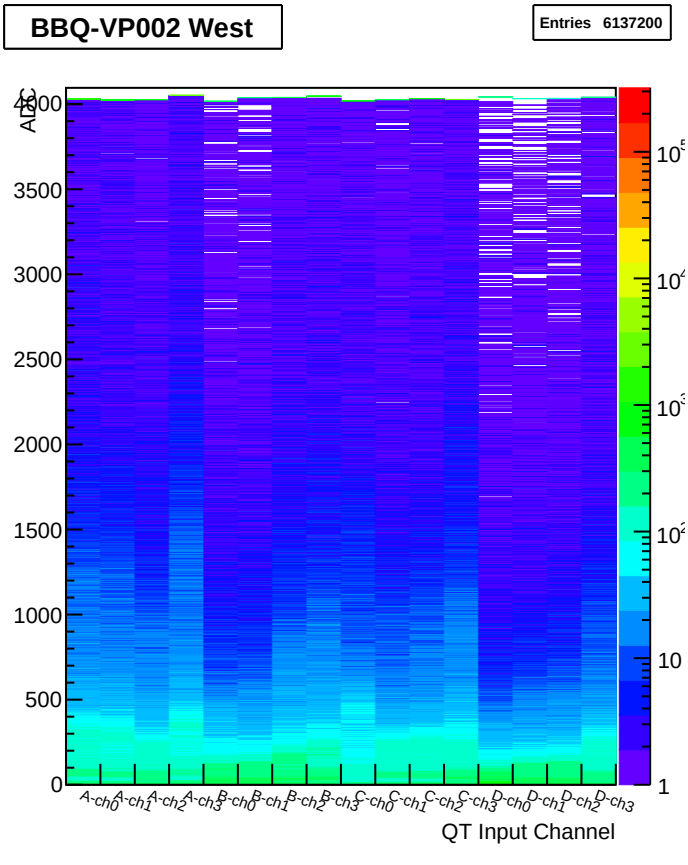

BBQ-ZD001 (ZDC TOWER)
Entries 6137200
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

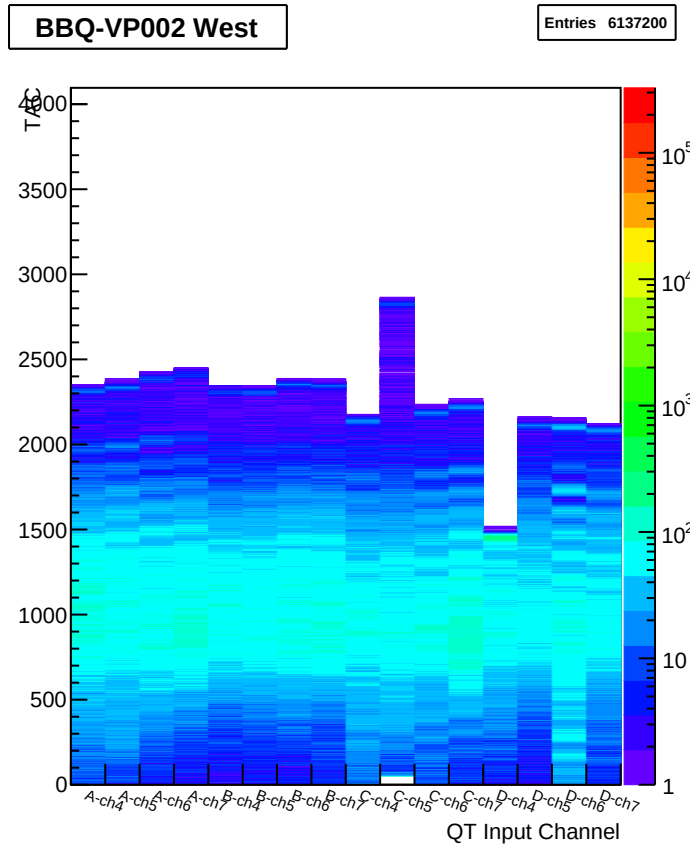

rawzdcEastTac
Entries 383575

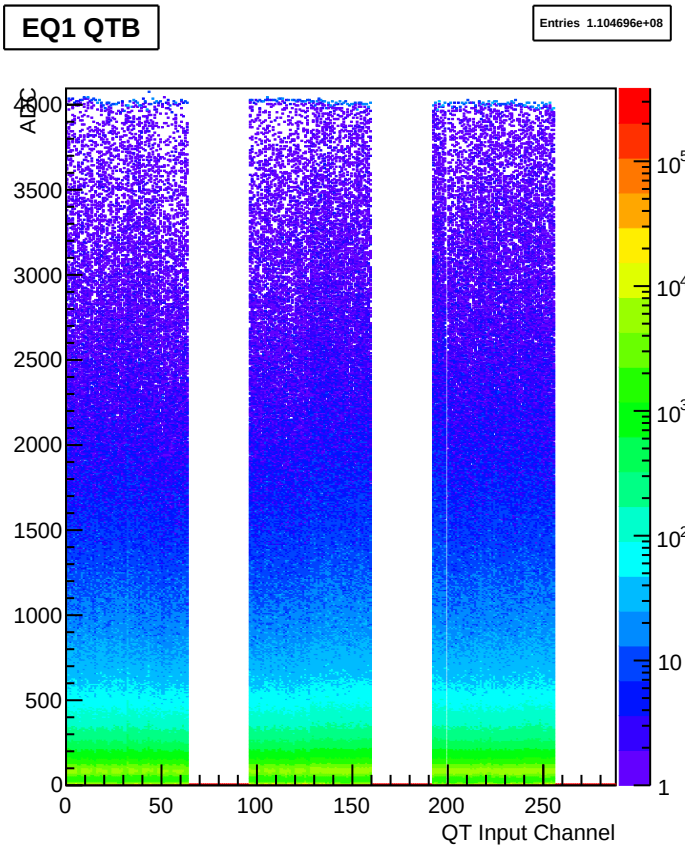

rawzdcWestTac
Entries 383575

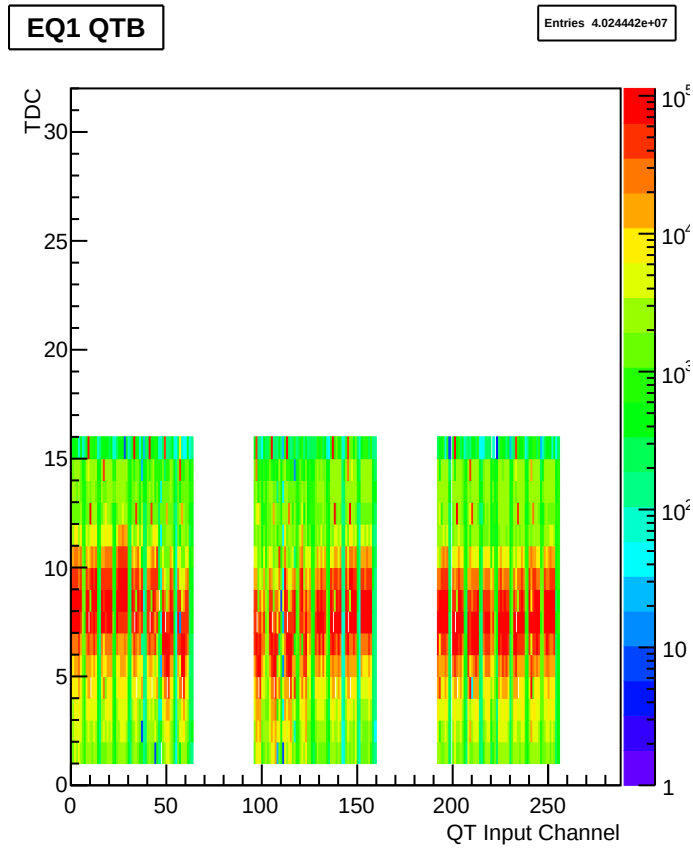

BBQ-VP001 East
Entries 6137200
ADC
QT Input Channel

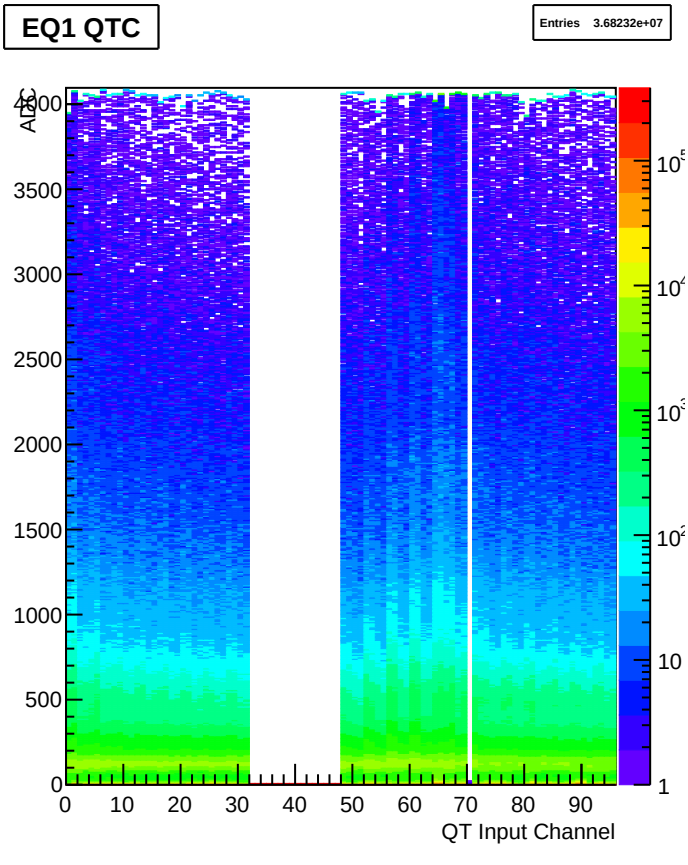

BBQ-VP001 East
Entries 6137200
TAC
QT Input Channel

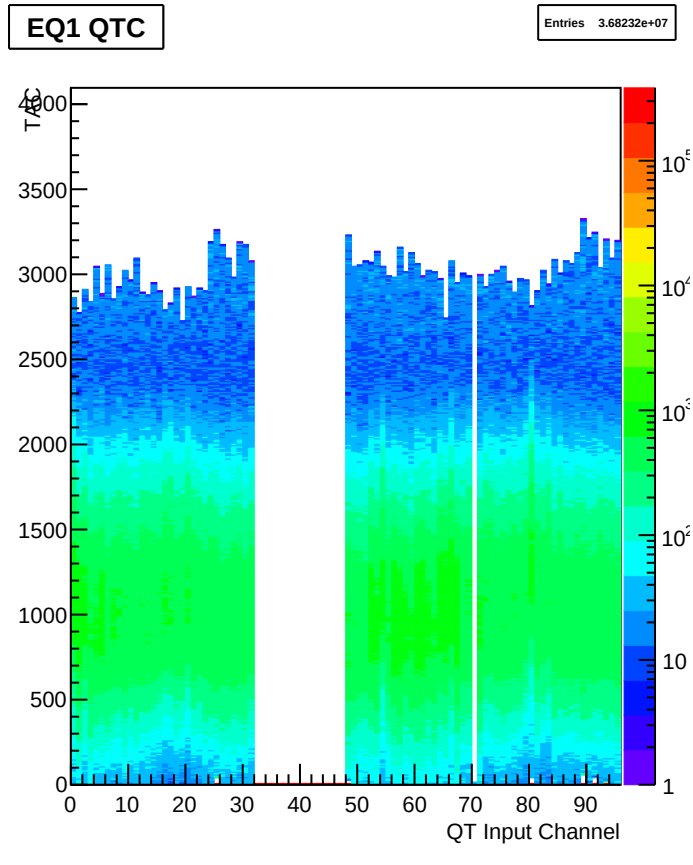

BBQ-VP002 West
Entries 6137200
ADC
QT Input Channel

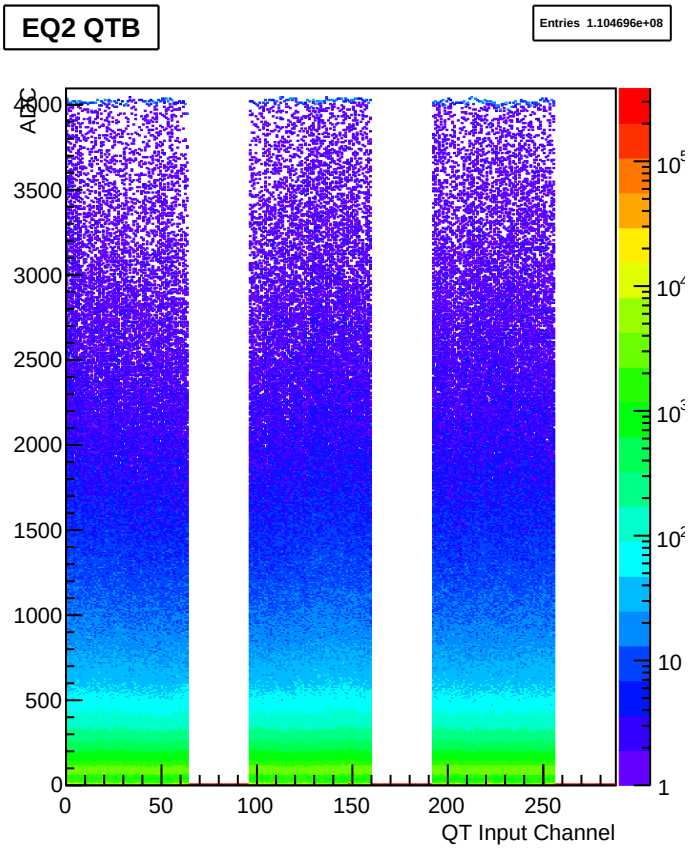

BBQ-VP002 West
Entries 6137200
TAC
QT Input Channel

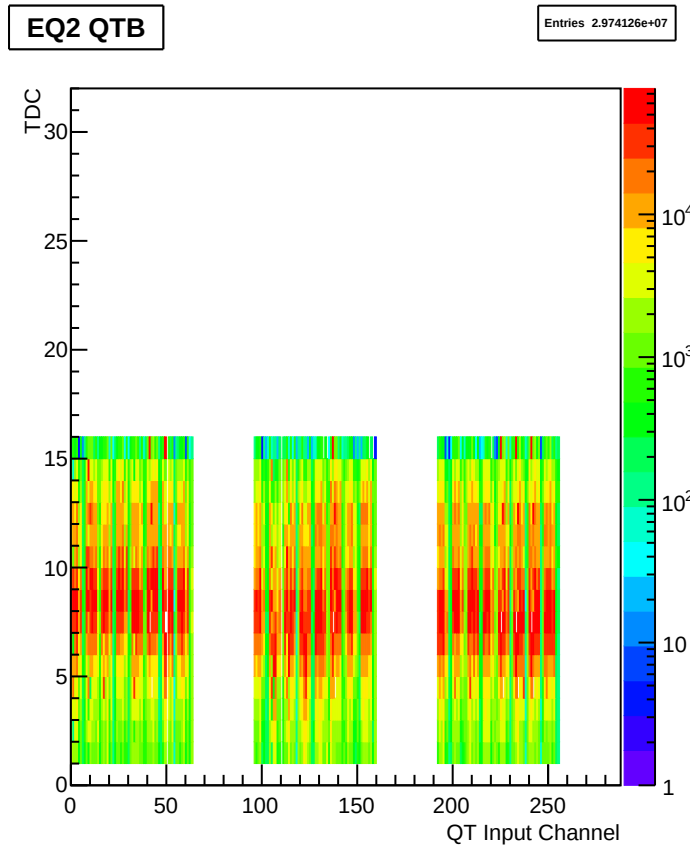

EQ1 QTB
Entries 1.104696e+08
ADC
QT Input Channel

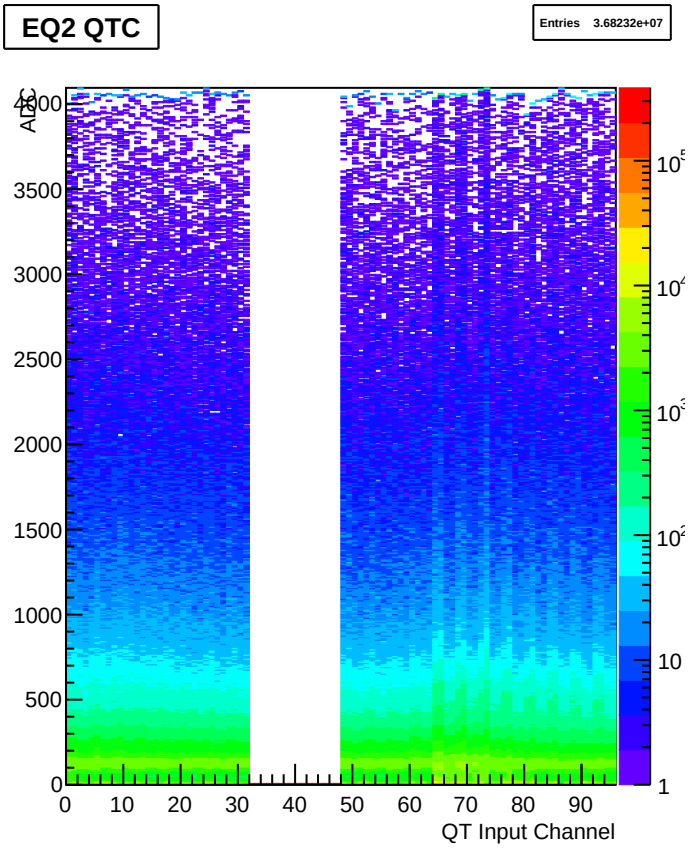

EQ1 QTB
Entries 4.024442e+07
TDC
QT Input Channel

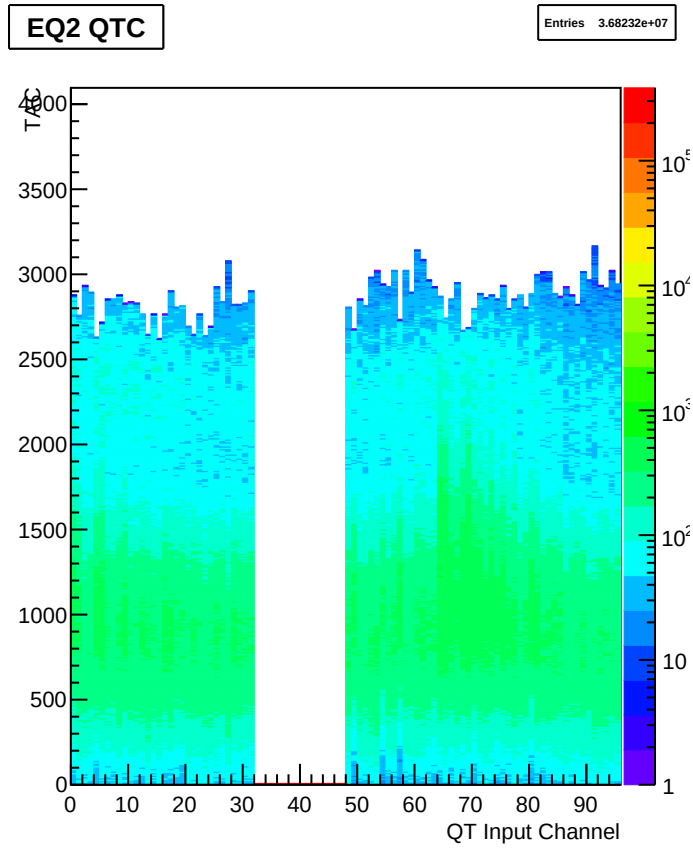

EQ1 QTC
Entries 3.68232e+07
ADC
QT Input Channel

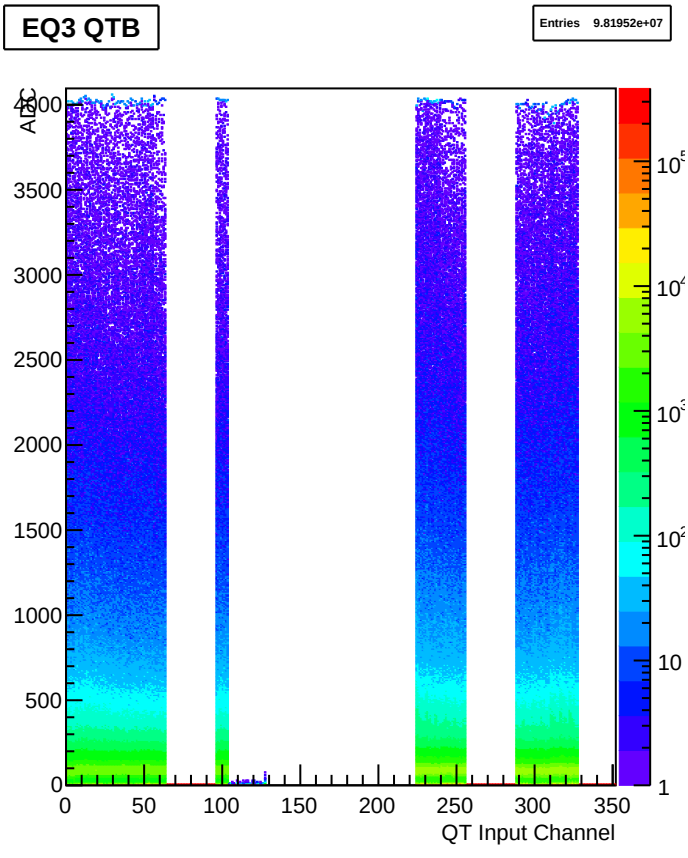

EQ1 QTC
Entries 3.68232e+07
TADC
QT Input Channel

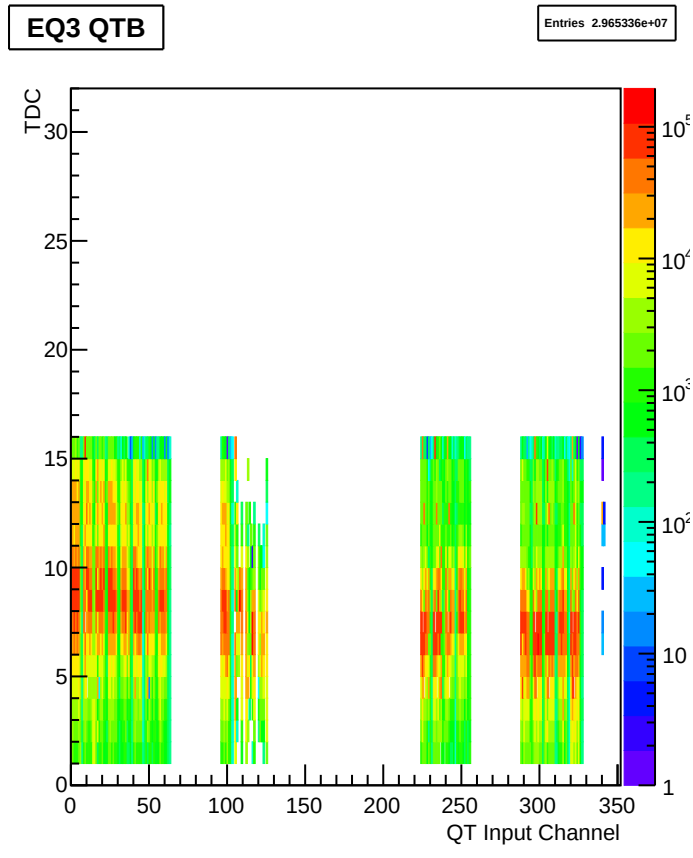

EQ2 QTB
Entries 1.104696e+08
ADC
QT Input Channel

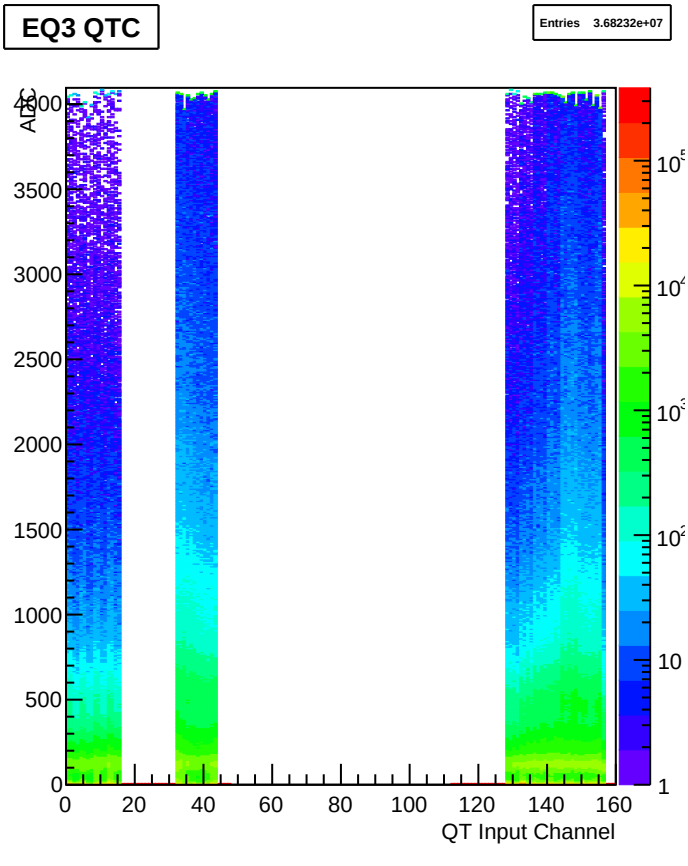

EQ2 QTB
Entries 2.974126e+07
TDC
QT Input Channel

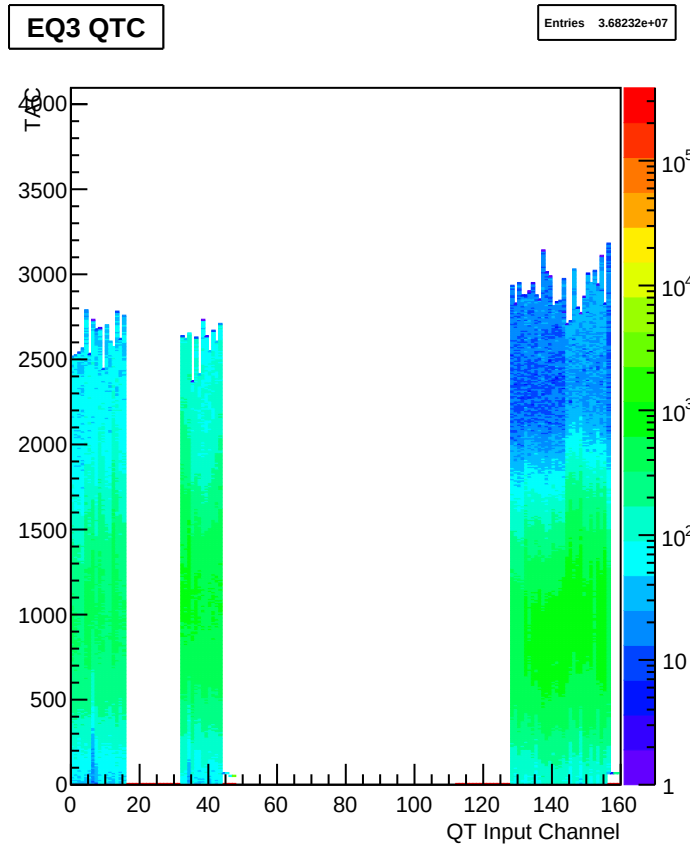

EQ2 QTC
Entries 3.68232e+07
ADC
QT Input Channel

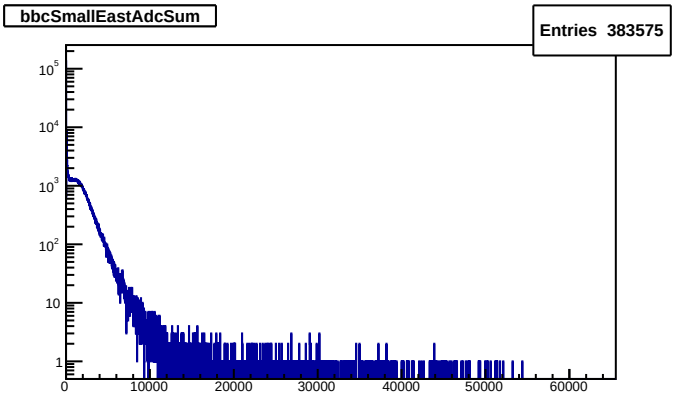

EQ2 QTC
Entries 3.68232e+07
TADC
QT Input Channel

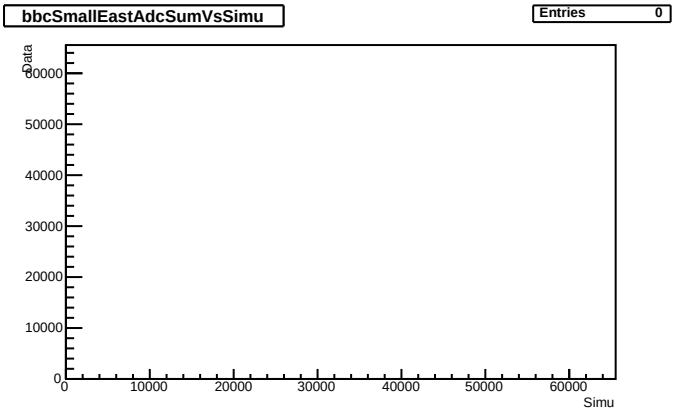

EQ3 QTB
Entries 9.81952e+07
ADC
QT Input Channel

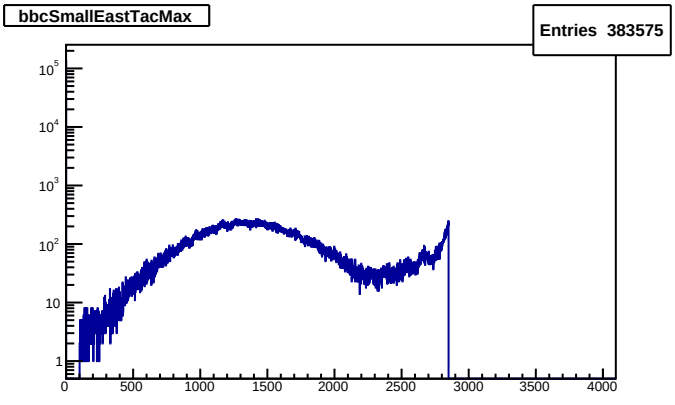

EQ3 QTB
Entries 2.965336e+07
TDC
QT Input Channel

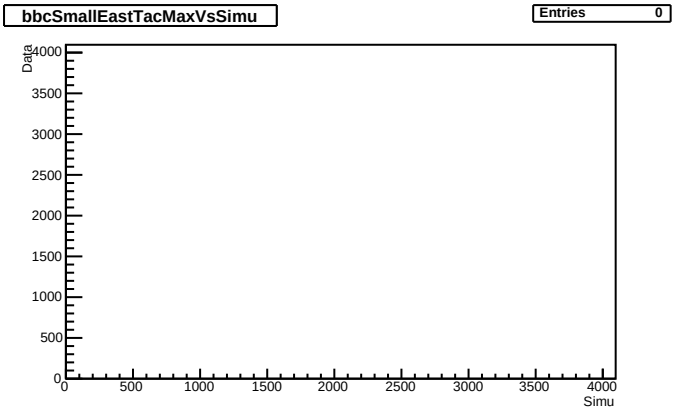

EQ3 QTC
Entries 3.68232e+07
ADC
QT Input Channel

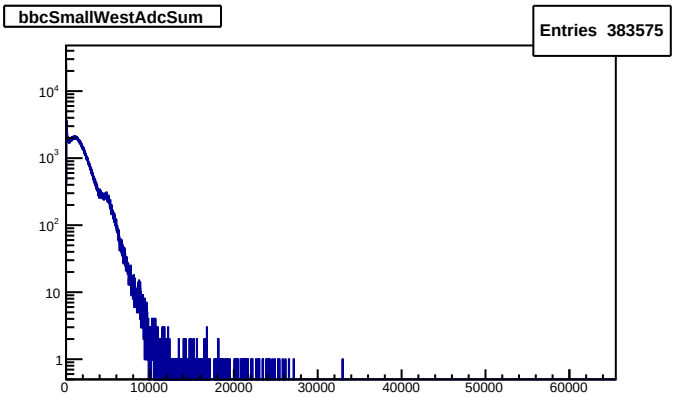

EQ3 QTC
Entries 3.68232e+07
TADC
QT Input Channel

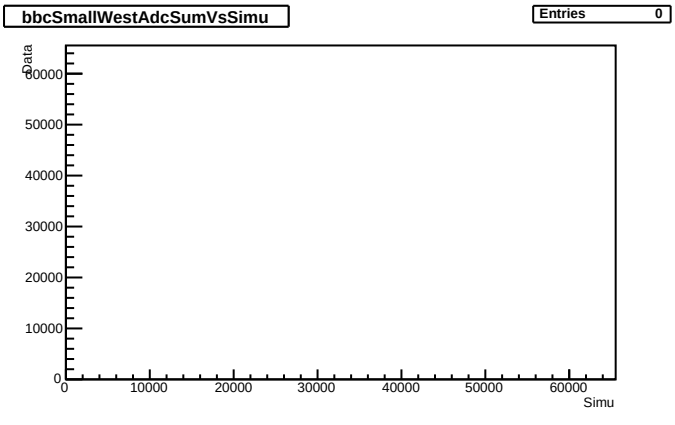

bbcSmallEastAdcSum
Entries 383575

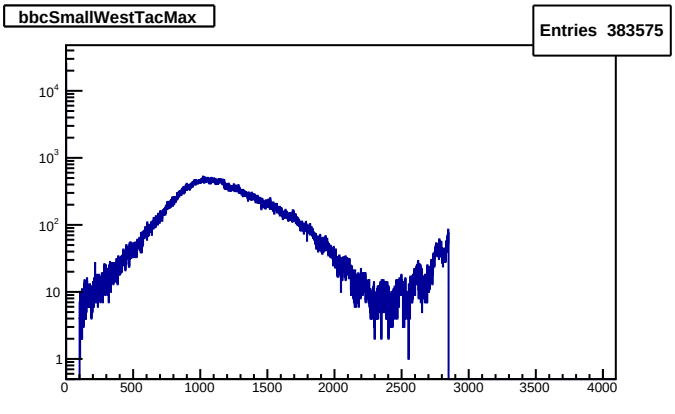

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

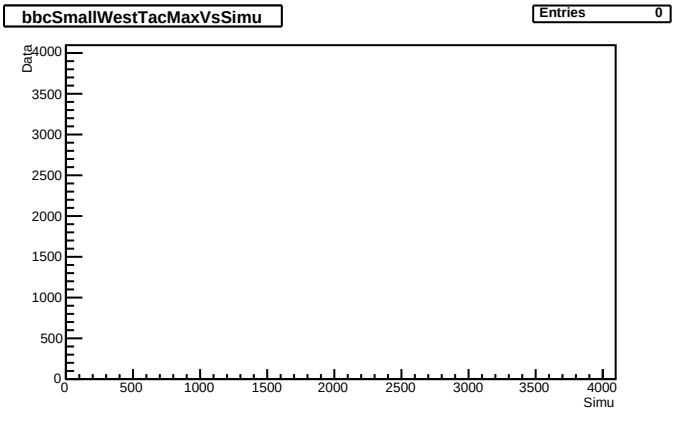

bbcSmallEastTacMax
Entries 383575

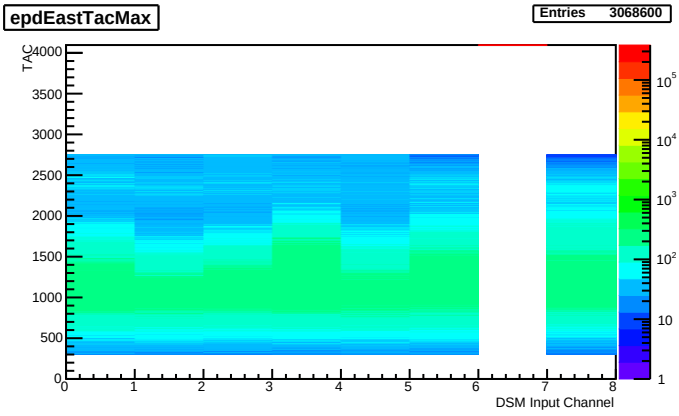

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

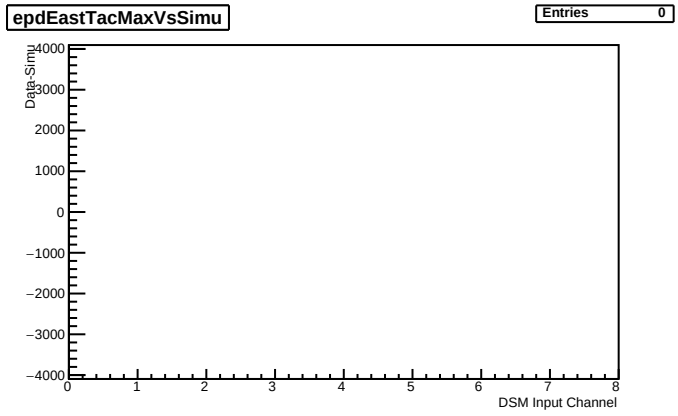

bbcSmallWestAdcSum
Entries 383575

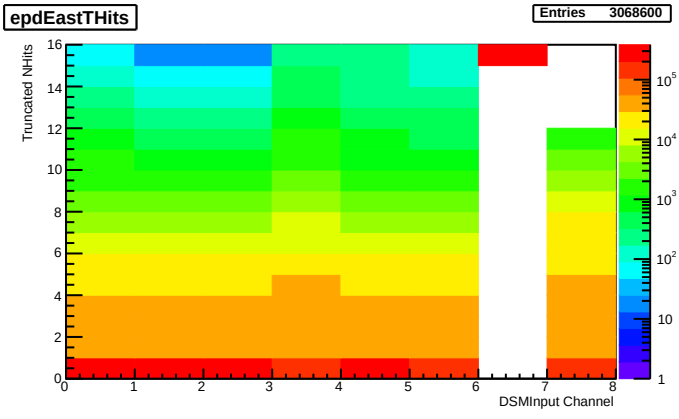

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

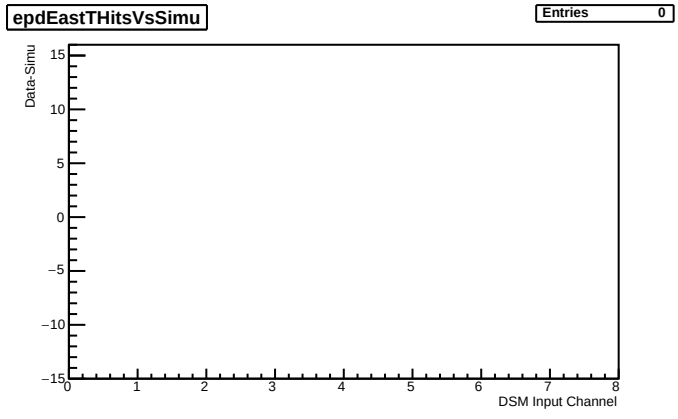

bbcSmallWestTacMax
Entries 383575

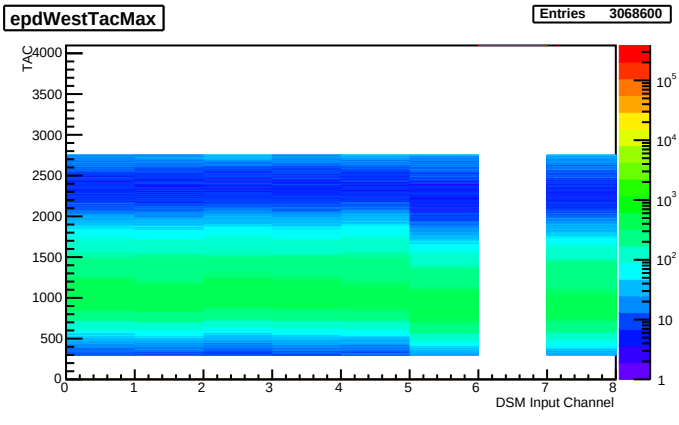

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

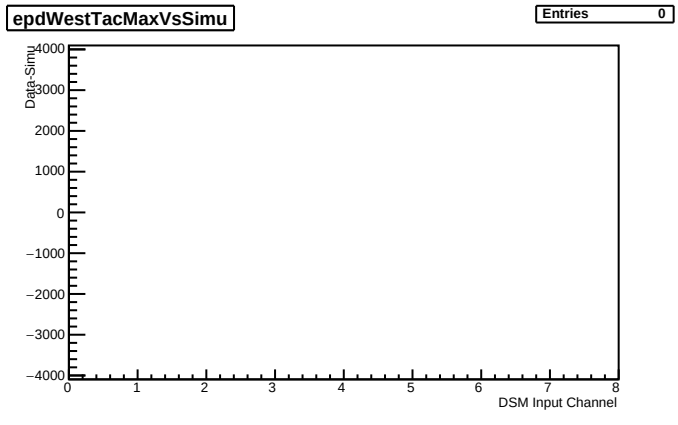

epdEastTacMax
Entries 3068600
TAC
DSM Input Channel

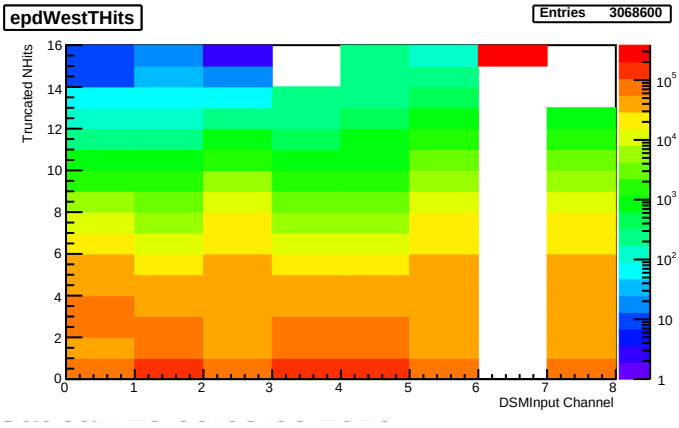

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

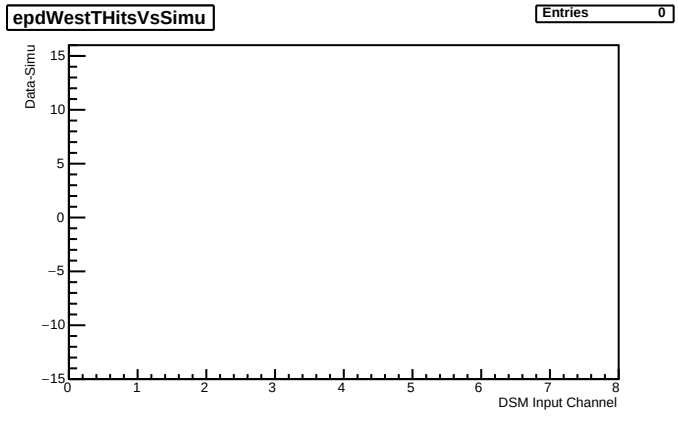

epdEastTHits
Entries 3068600
Truncated NHits
DSMInput Channel

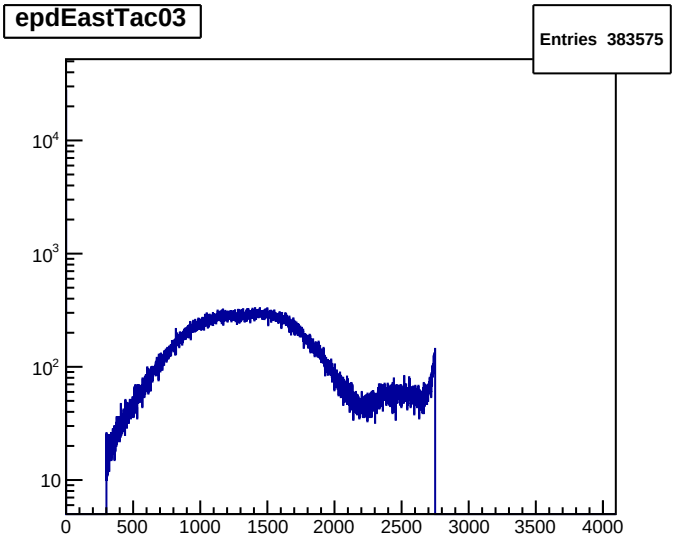

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

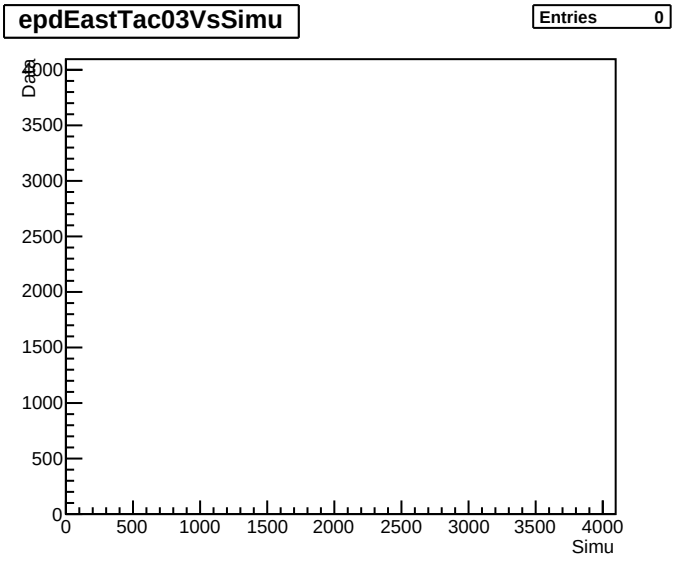

epdWestTacMax
Entries 3068600
TAC
DSM Input Channel

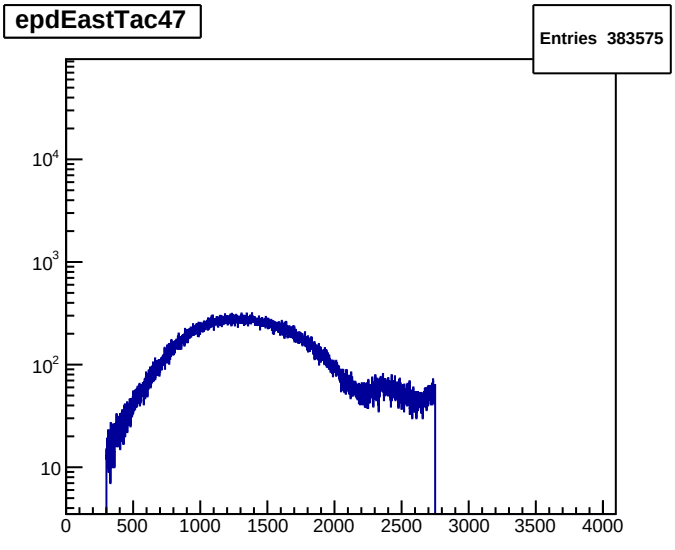

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

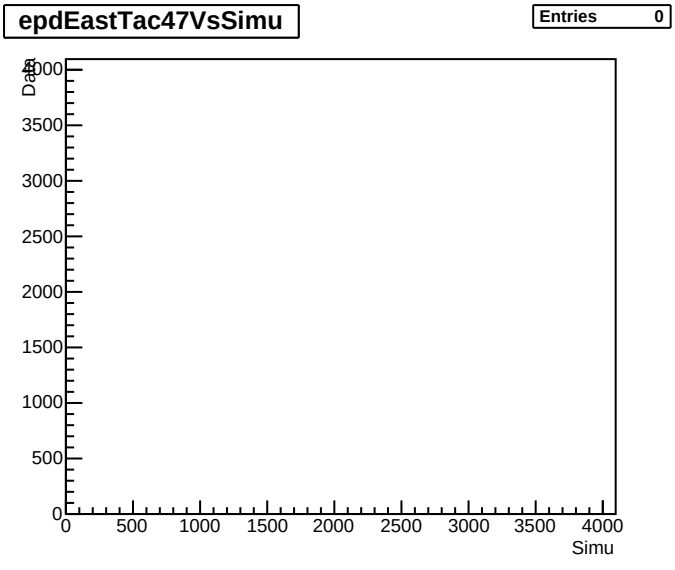

epdWestTHits
Entries 3068600
Truncated NHits
DSMInput Channel

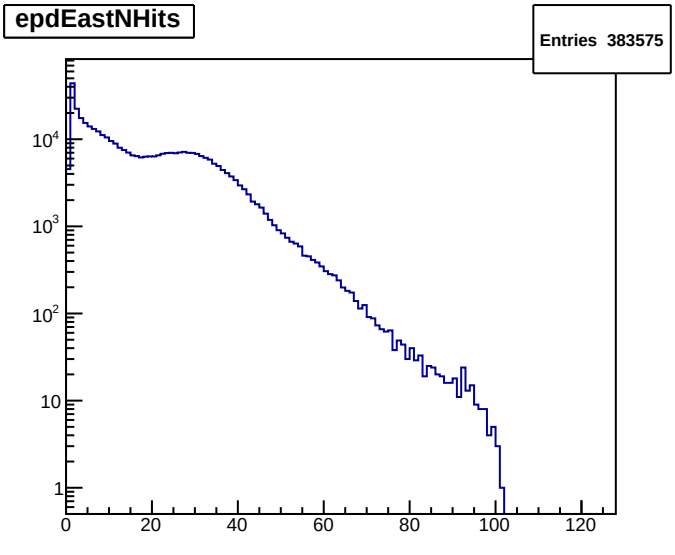

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

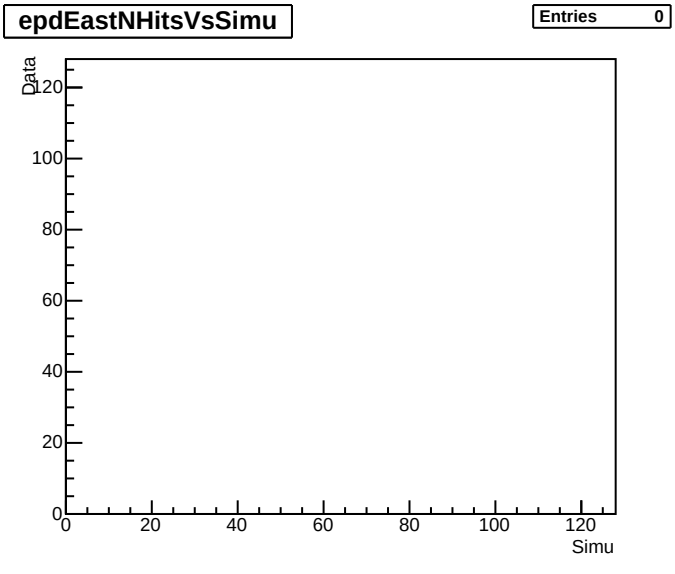

epdEastTac03
Entries 383575

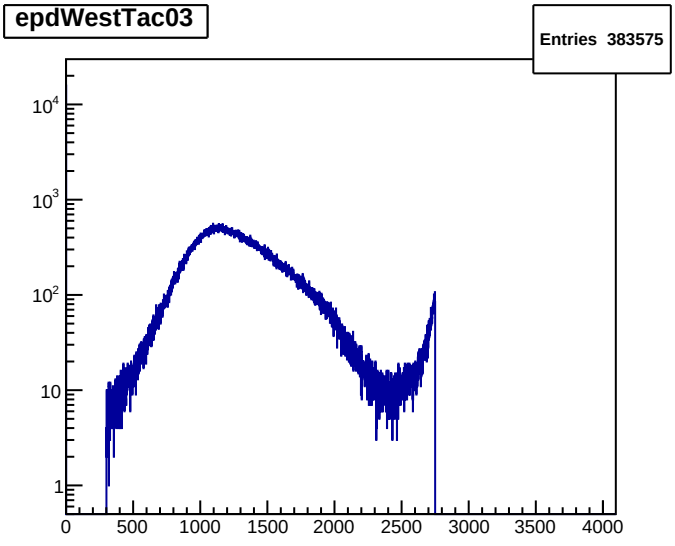

epdEastTac03VsSimu
Entries 0
Data
Simu

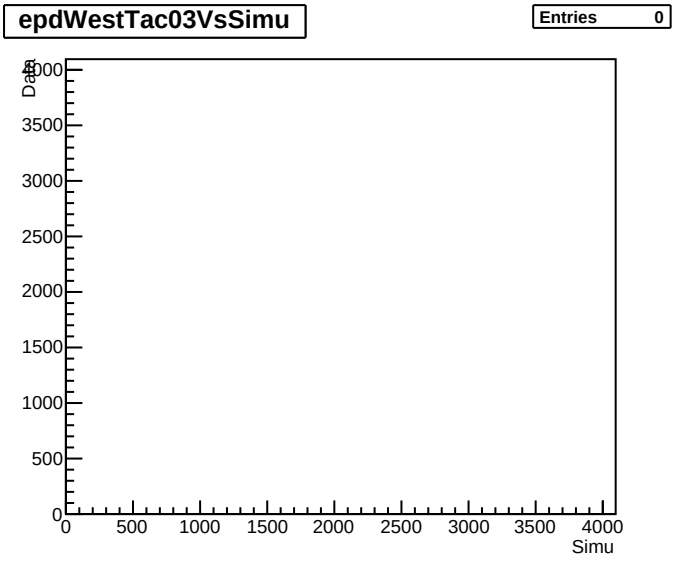

epdEastTac47
Entries 383575

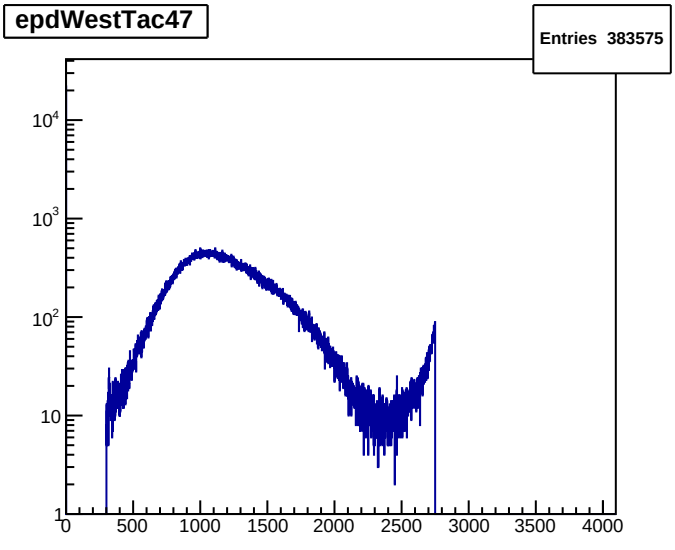

epdEastTac47VsSimu
Entries 0
Data
Simu

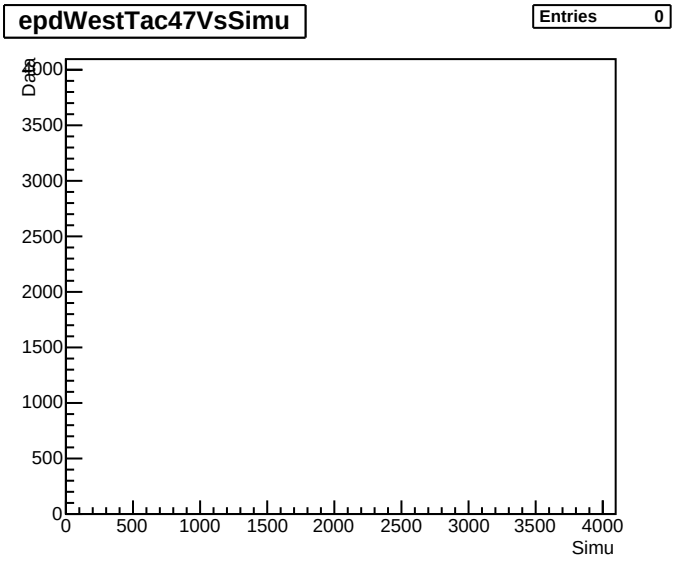

epdEastNHits
Entries 383575

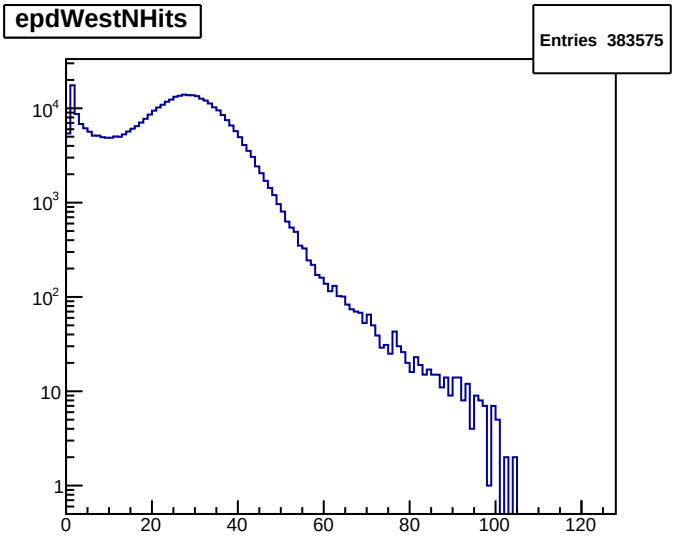

epdEastNHitsVsSimu
Entries 0
Data
Simu

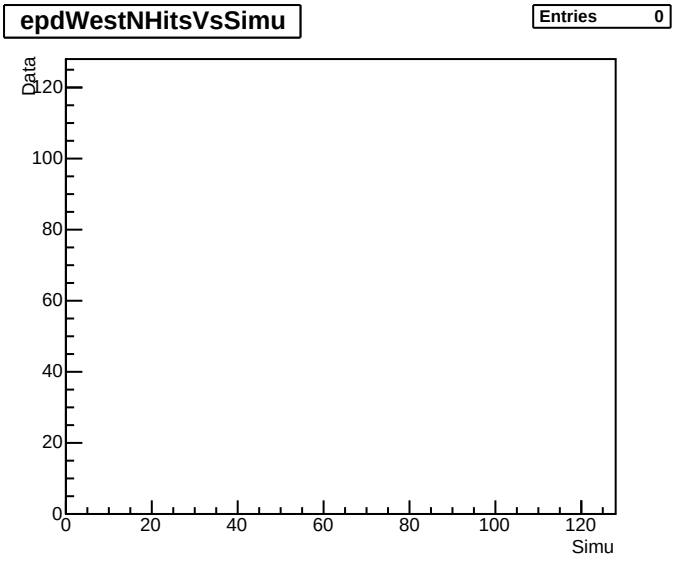

epdWestTac03
Entries 383575

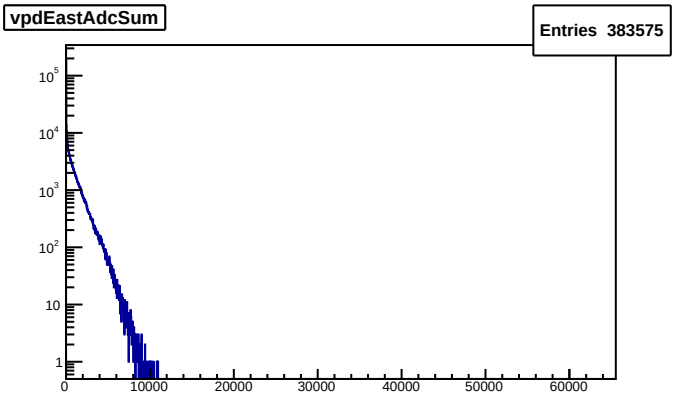

epdWestTac03VsSimu
Entries 0
Data
Simu

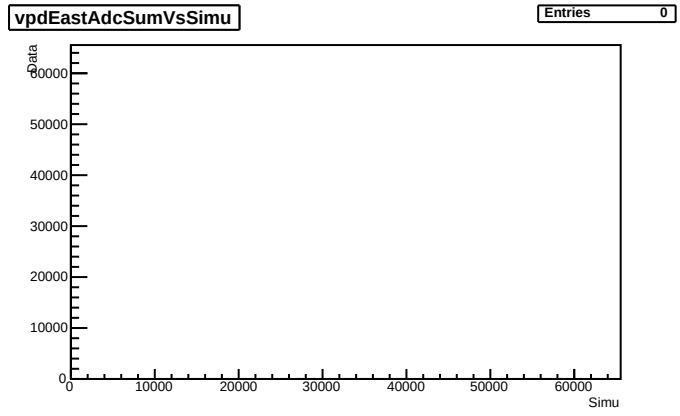

epdWestTac47
Entries 383575

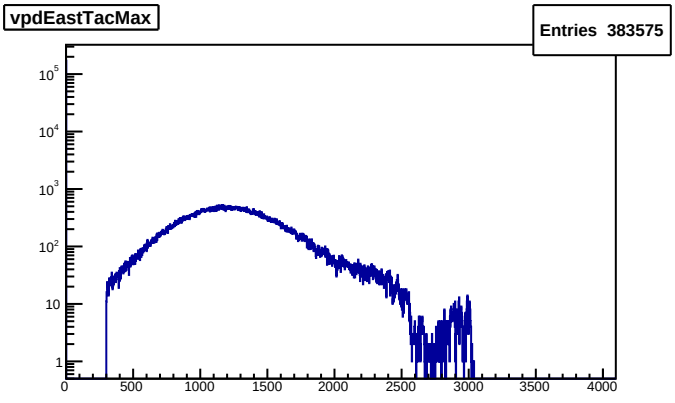

epdWestTac47VsSimu
Entries 0
Data
Simu

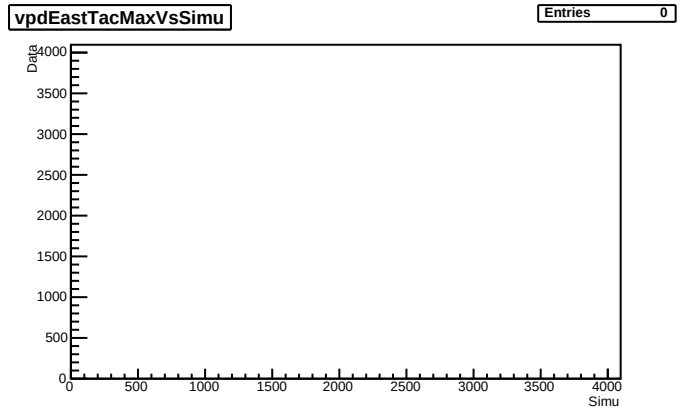

epdWestNHits
Entries 383575

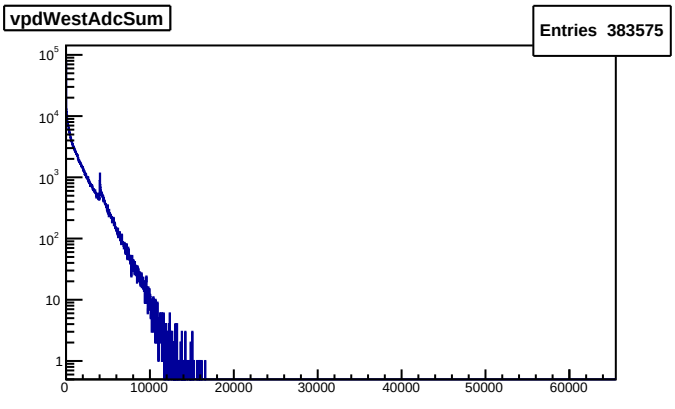

epdWestNHitsVsSimu
Entries 0
Data
Simu

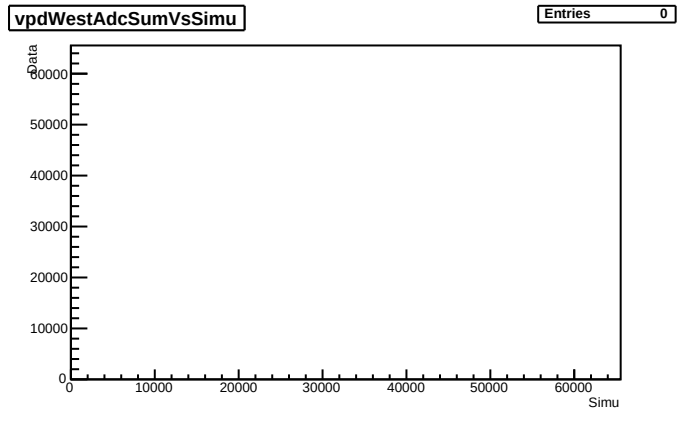

vpdEastAdcSum
Entries 383575

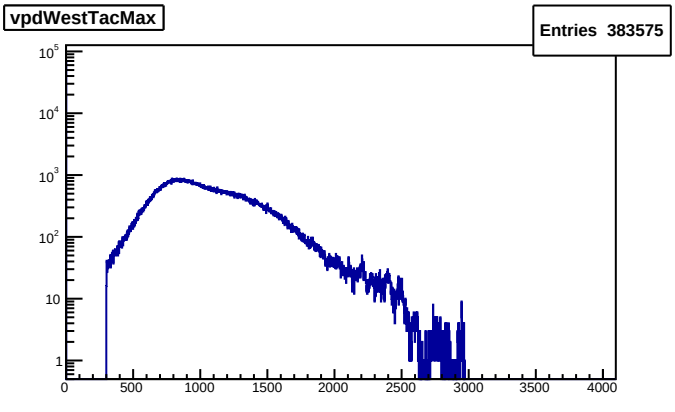

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

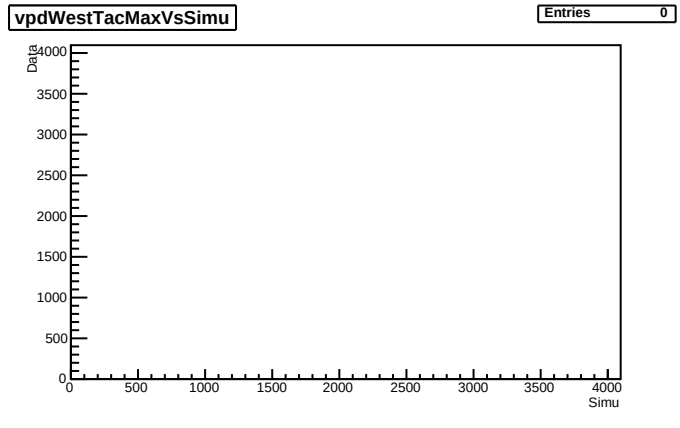

vpdEastTacMax
Entries 383575

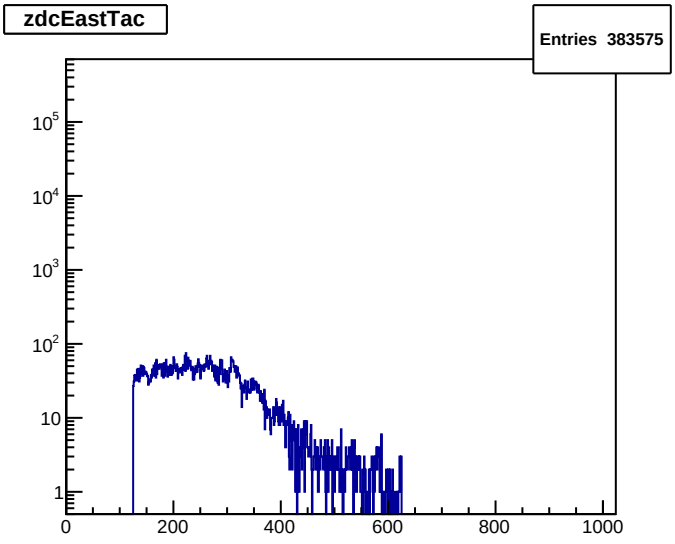

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

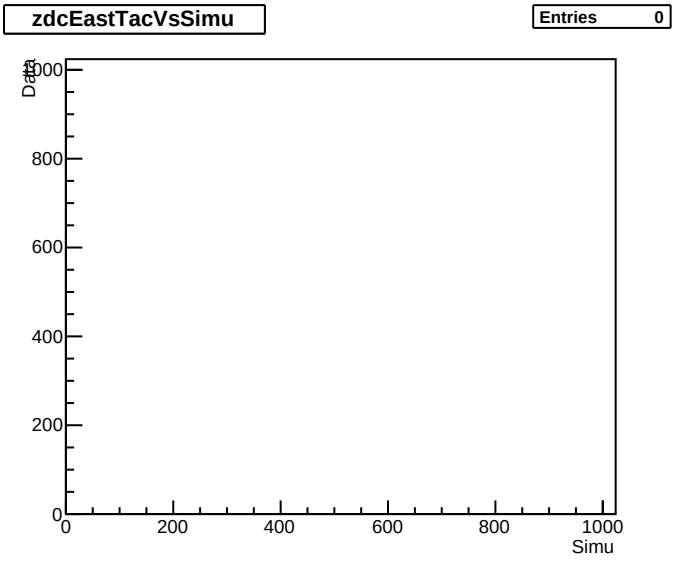

vpdWestAdcSum
Entries 383575

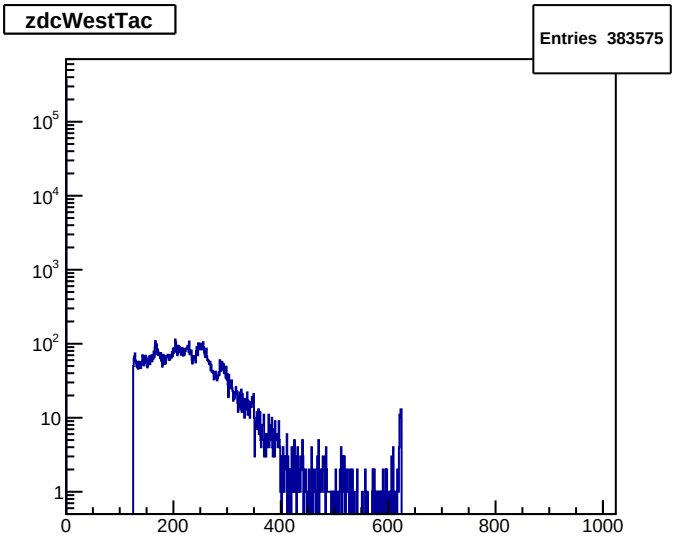

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

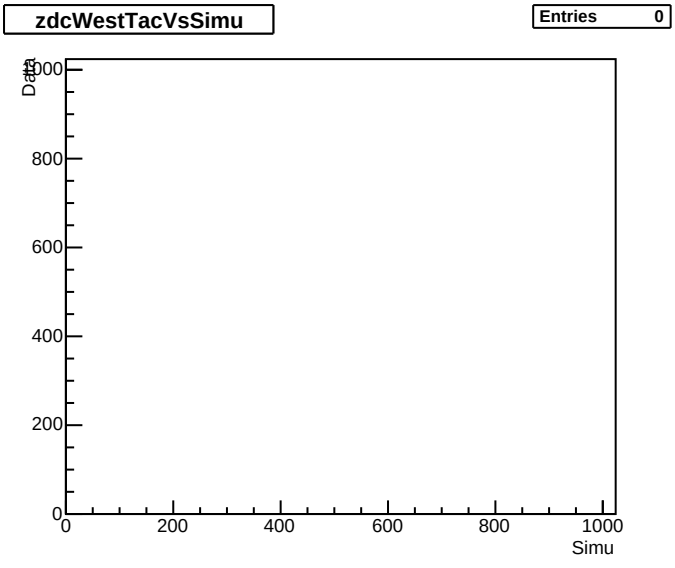

vpdWestTacMax
Entries 383575

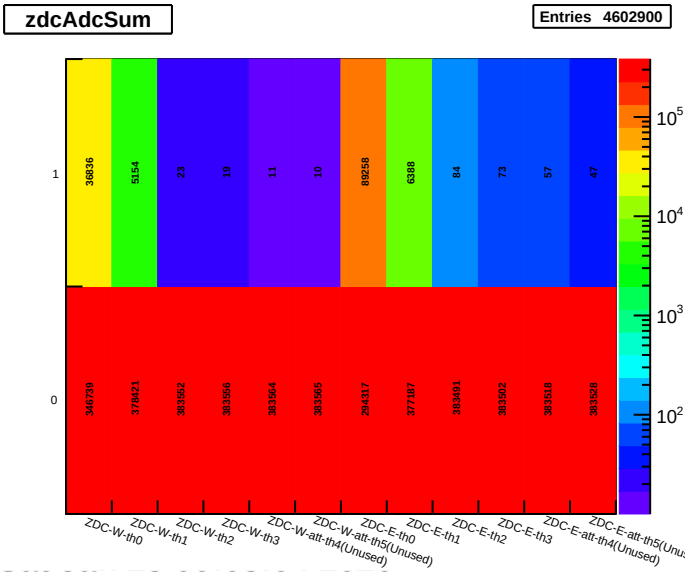

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

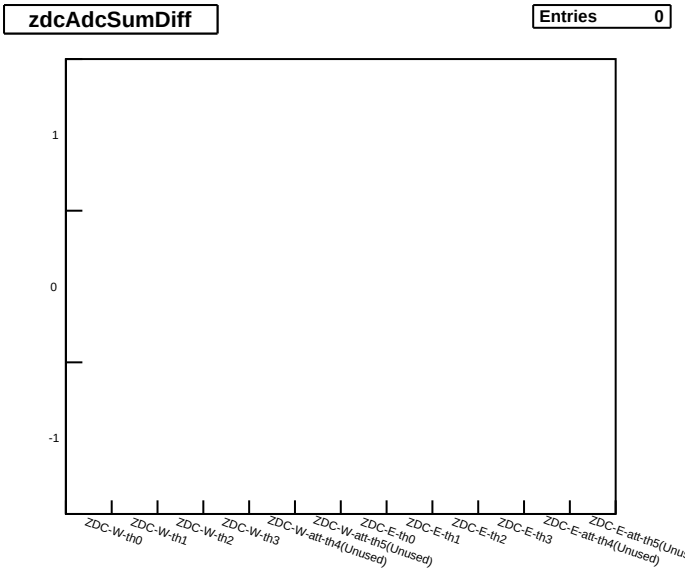

zdcEastTac
Entries 383575
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

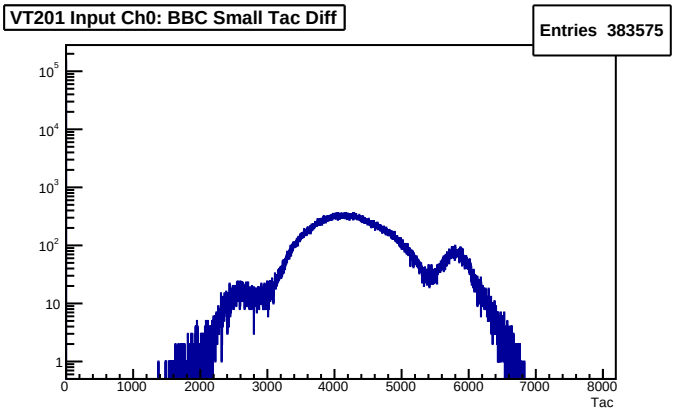

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

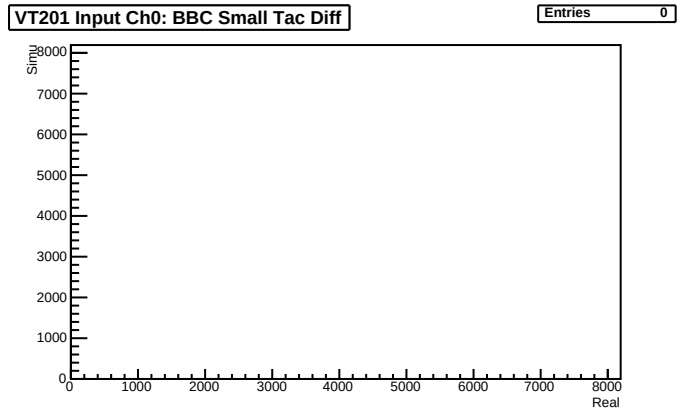

zdcWestTac
Entries 383575
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

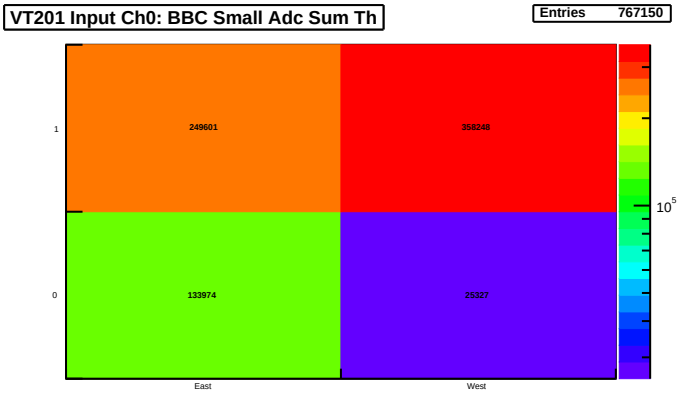

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

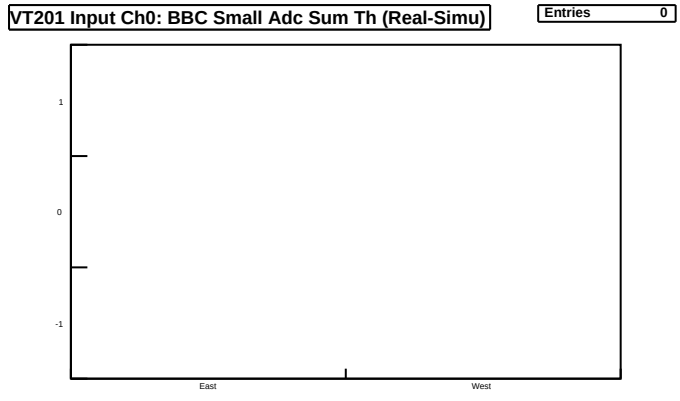

zdcAdcSum
Entries 4602900
1
0
36836
5154
23
19
11
10
89258
6388
84
73
57
47
346739
378421
383552
383556
383564
383565
294317
377187
383491
383502
383518
383528
10^5
10^4
10^3
10^2
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

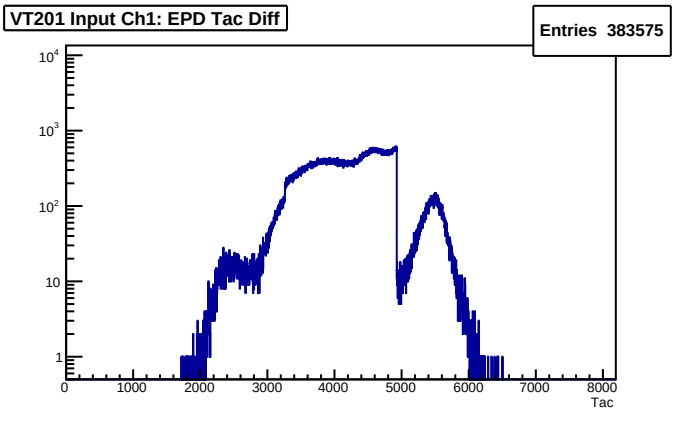

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

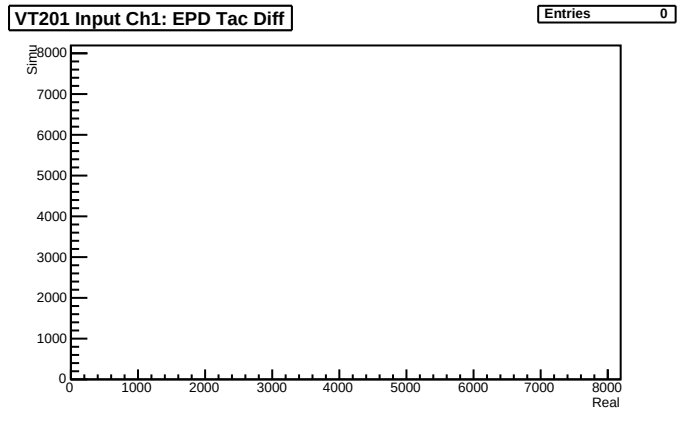

VT201 Input Ch0: BBC Small Tac Diff
Entries 383575
Tac

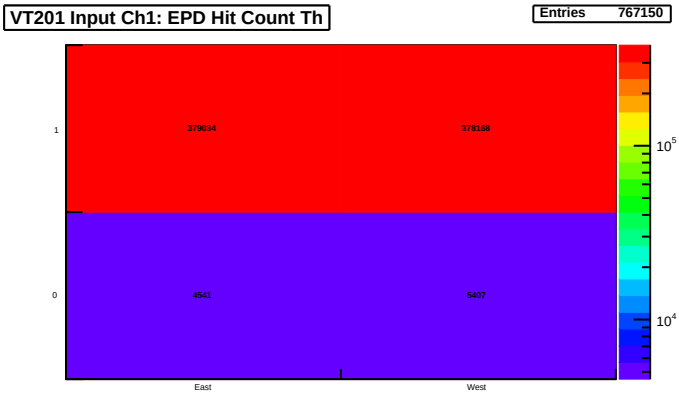

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

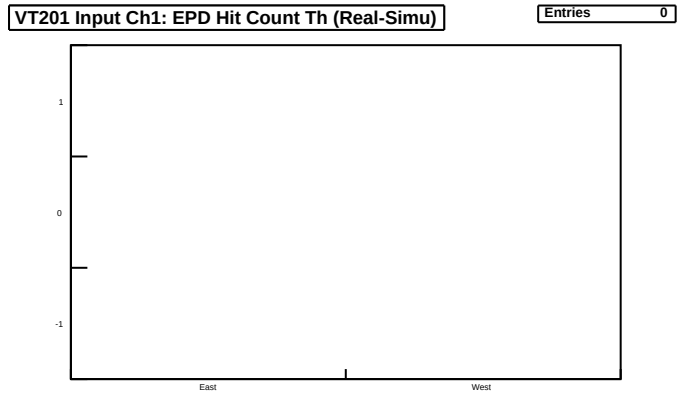

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 767150
249601
358248
133974
25327
East
West

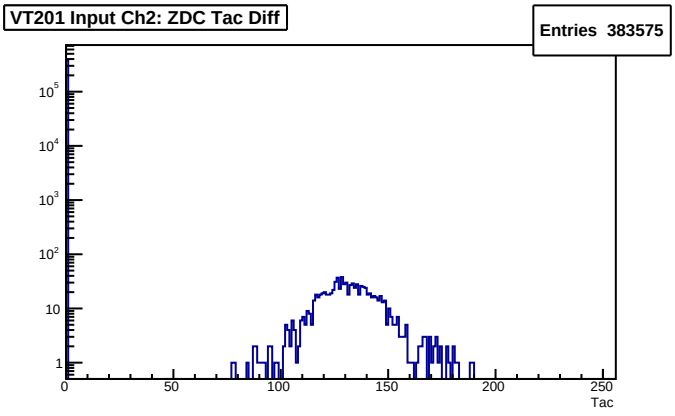

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

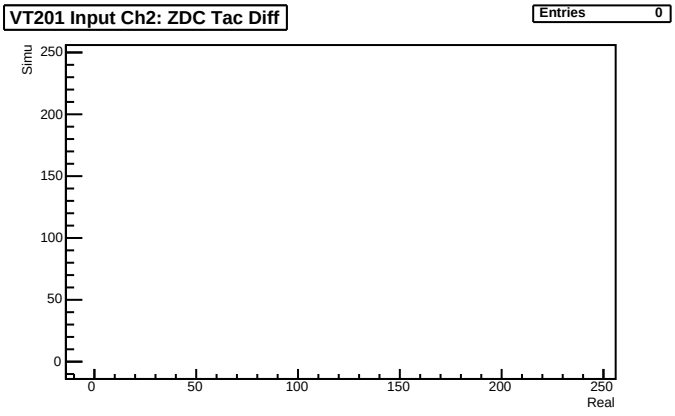

VT201 Input Ch1: EPD Tac Diff
Entries 383575
Tac

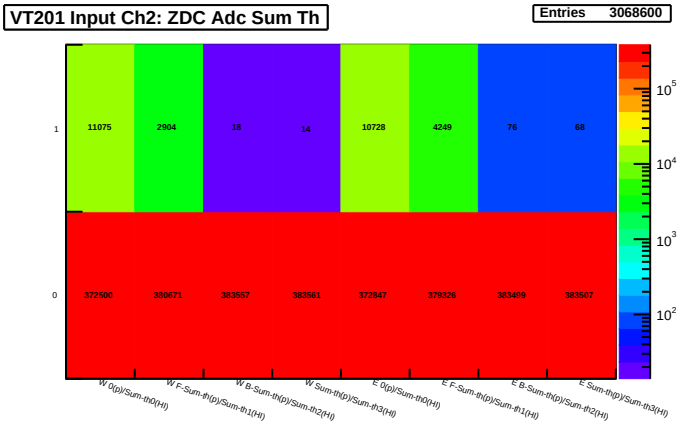

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

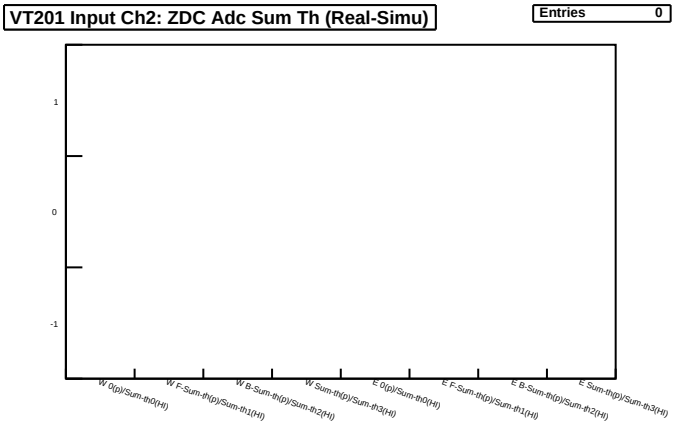

VT201 Input Ch1: EPD Hit Count Th
Entries 767150
379034
378168
4541
5407
East
West

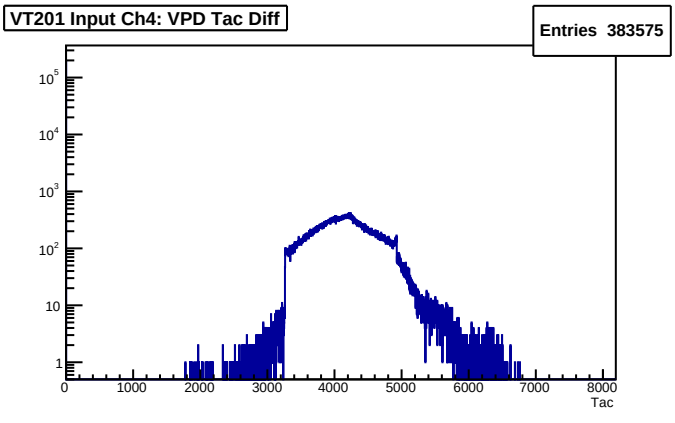

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

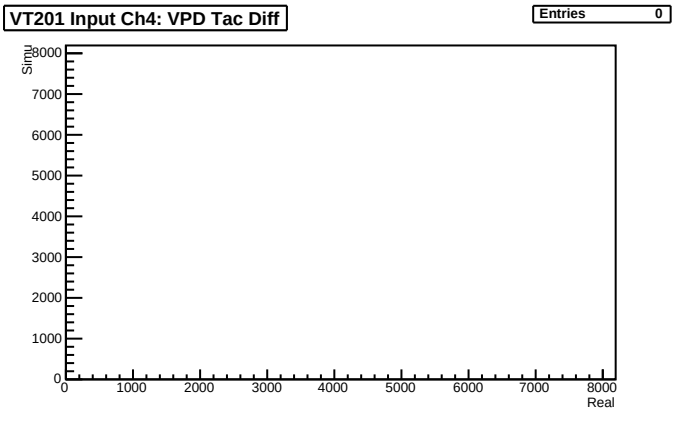

VT201 Input Ch2: ZDC Tac Diff
Entries 383575
Tac

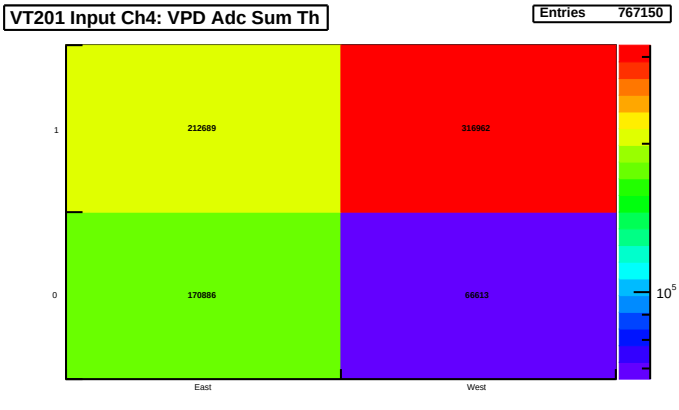

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

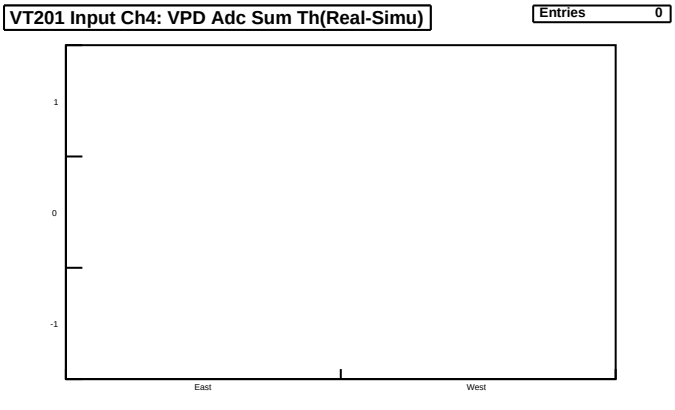

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3068600
11075
2904
18
14
10728
4249
76
68
372500
380671
383557
383561
372847
379326
383499
383507
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

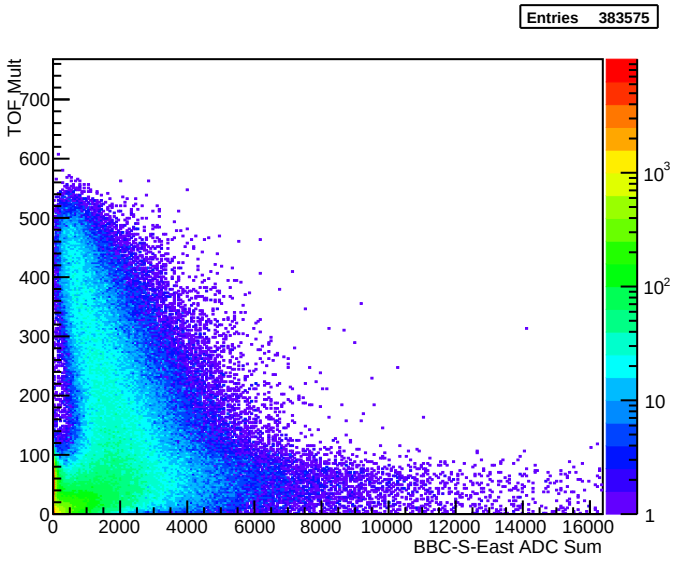

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

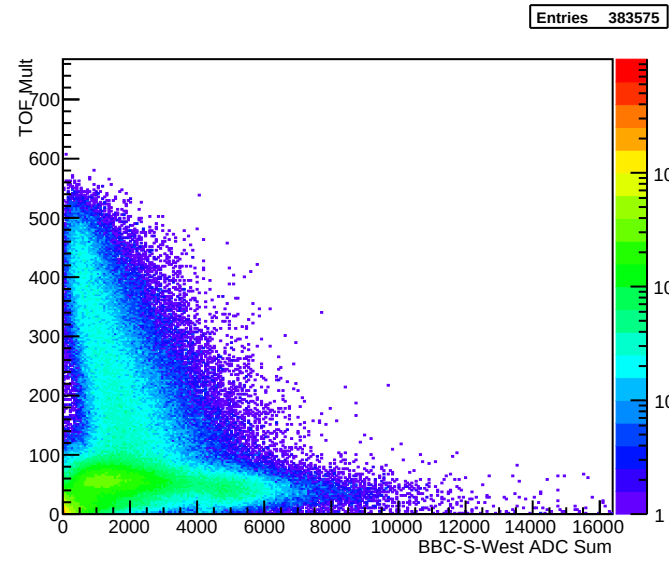

VT201 Input Ch4: VPD Tac Diff
Entries 383575
Tac

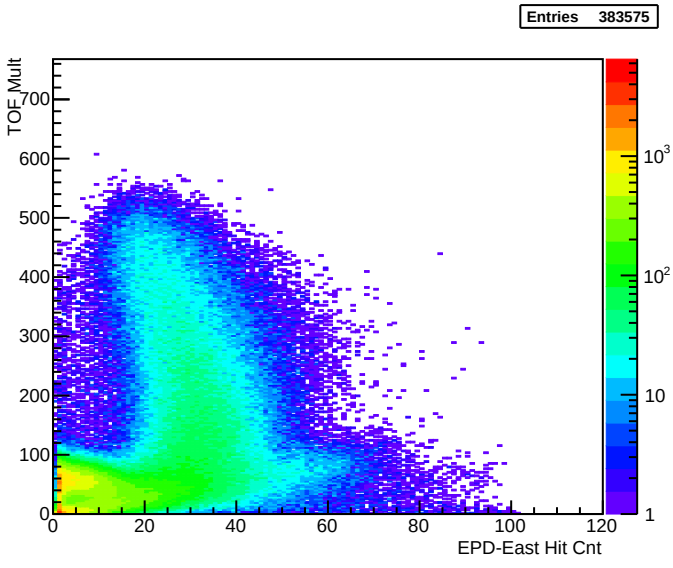

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

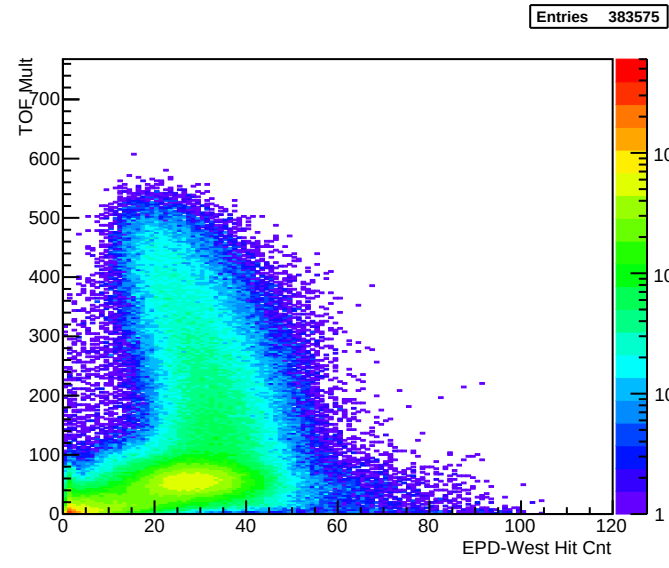

VT201 Input Ch4: VPD Adc Sum Th
Entries 767150
212689
310962
170886
66613
East
West

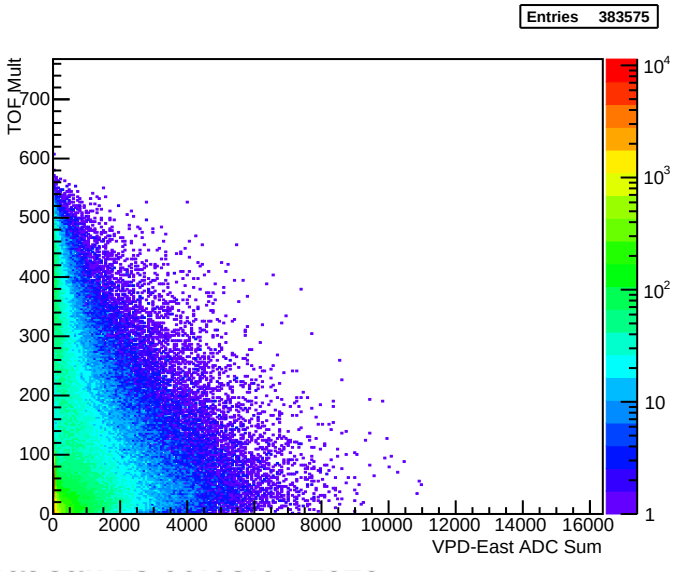

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

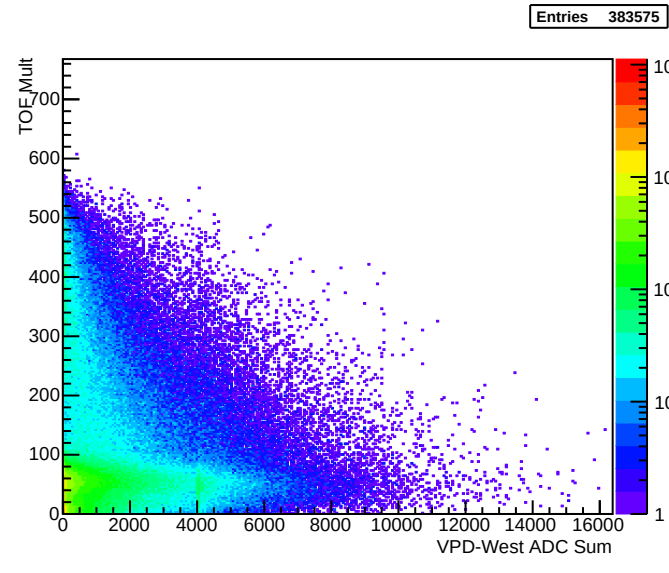

Entries 383575
TOF_Mult
BBC-S-East ADC Sum

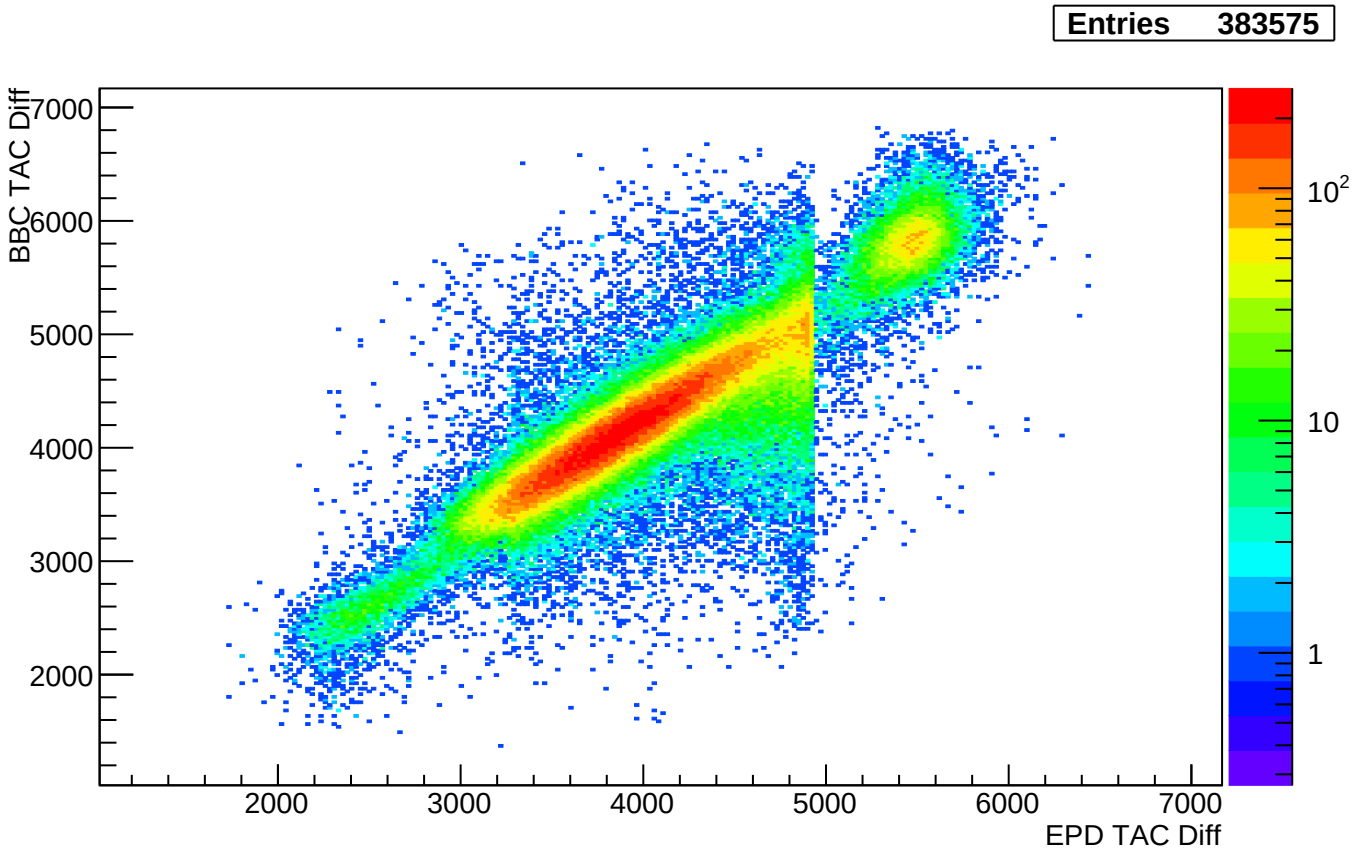

Entries 383575
TOF_Mult
BBC-S-West ADC Sum

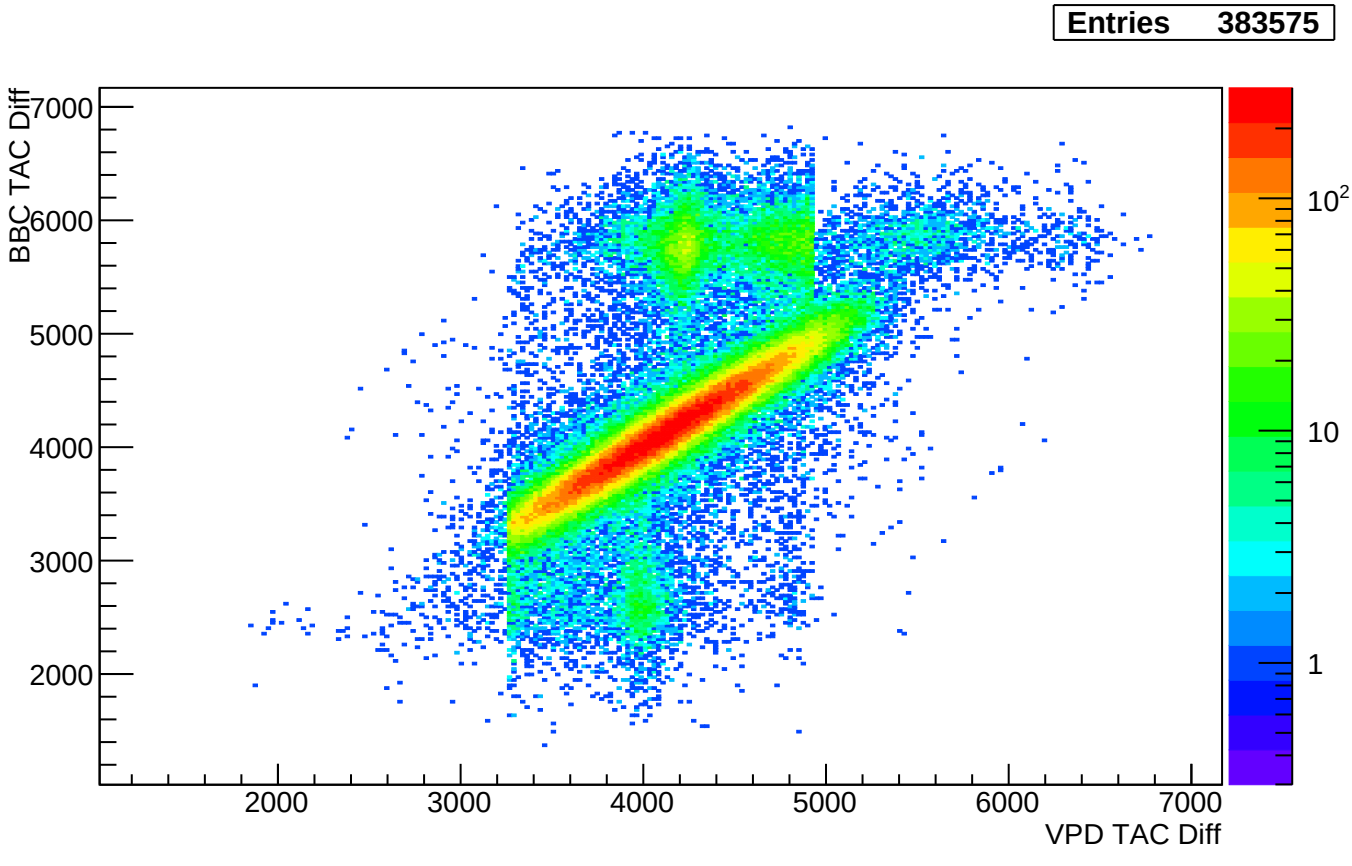

Entries 383575
TOF_Mult
EPD-East Hit Cnt

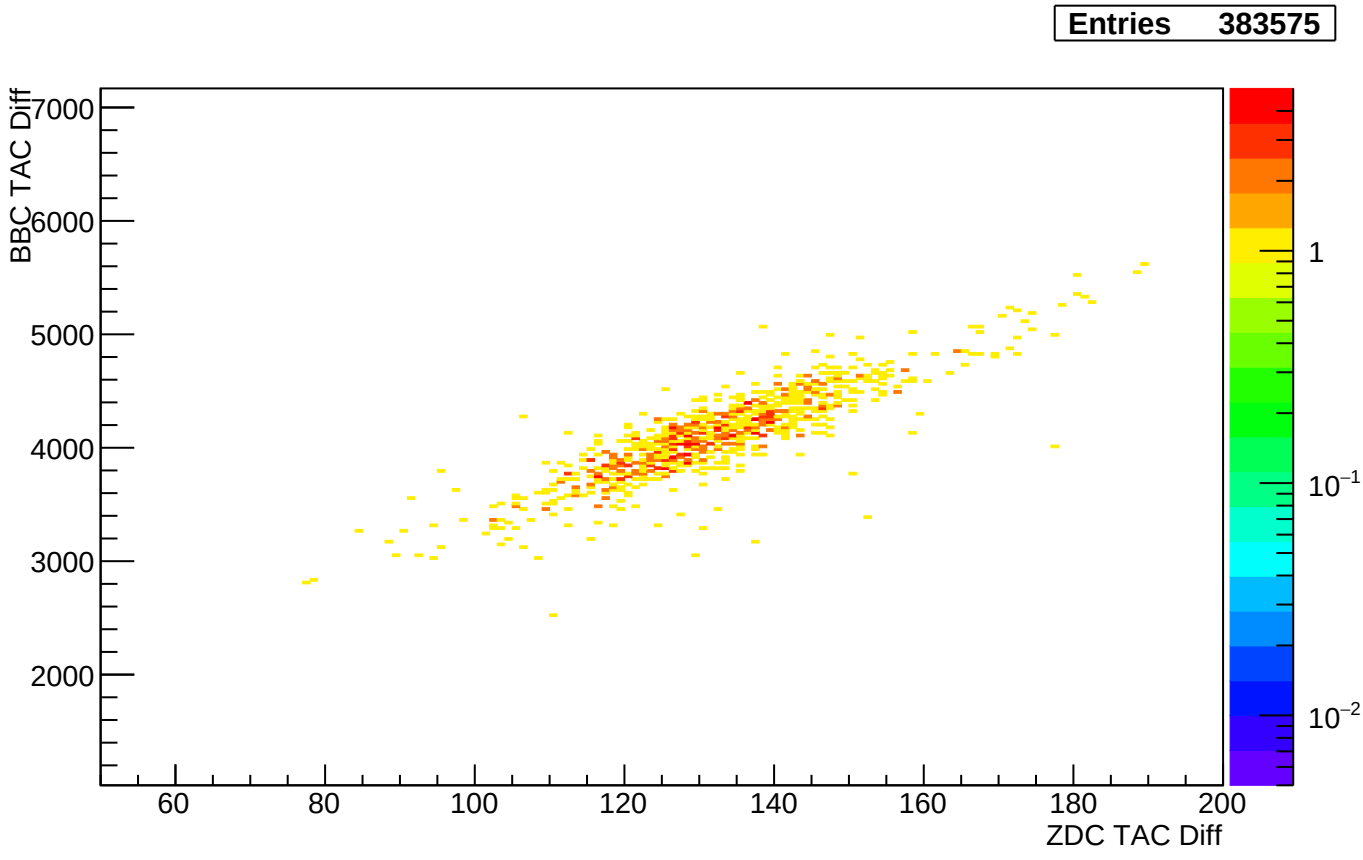

Entries 383575
TOF_Mult
EPD-West Hit Cnt

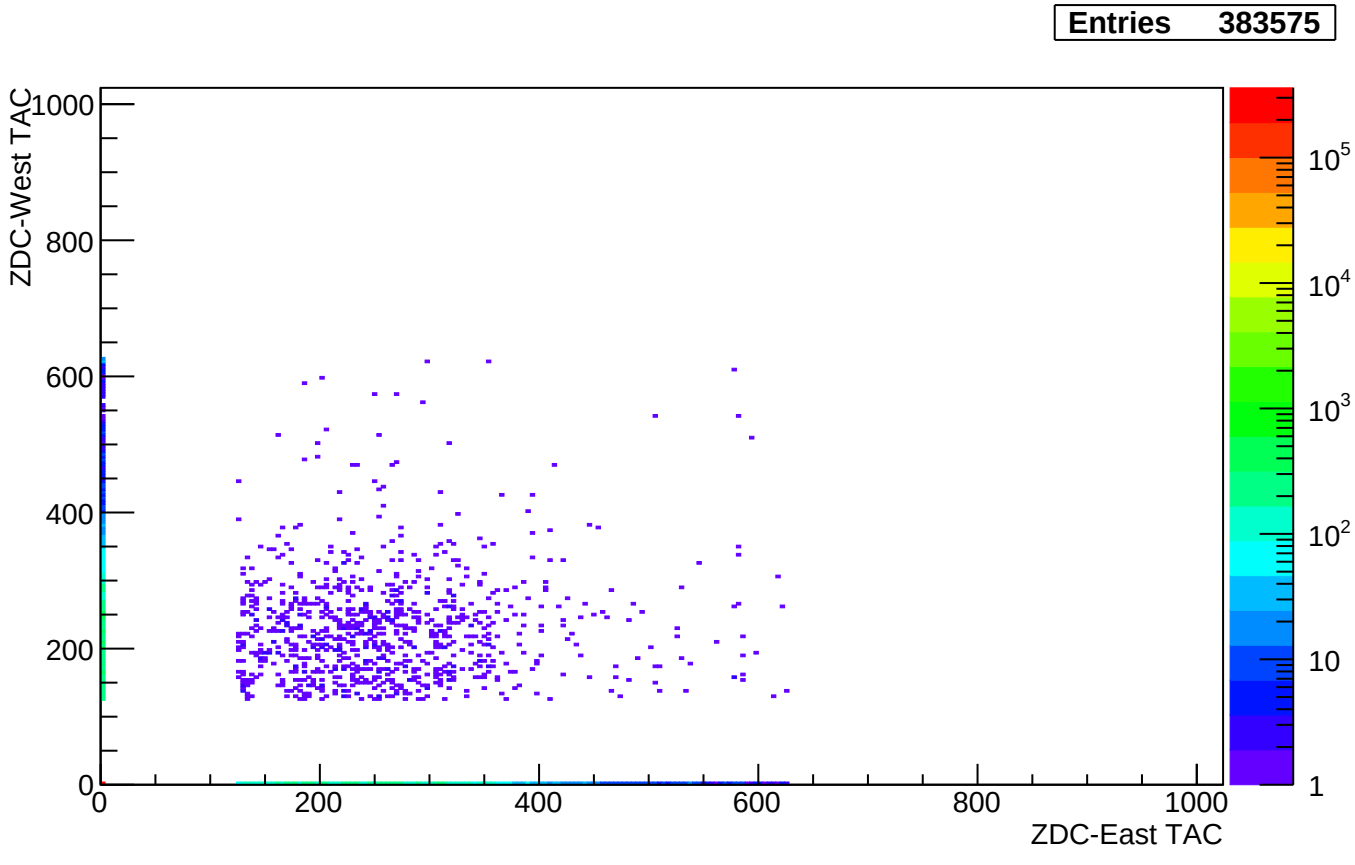

Entries 383575
TOF_Mult
VPD-East ADC Sum

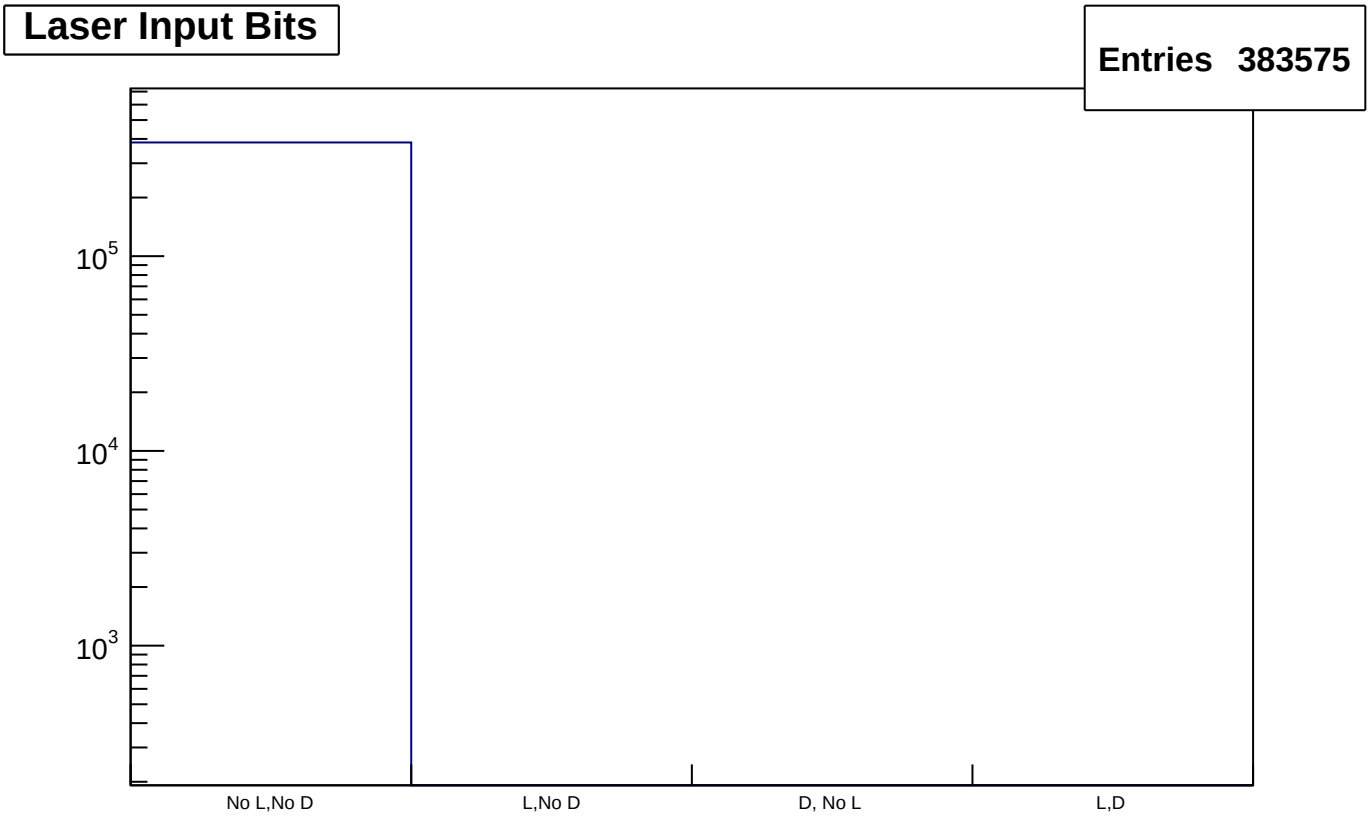

Entries 383575
TOF_Mult
VPD-West ADC Sum

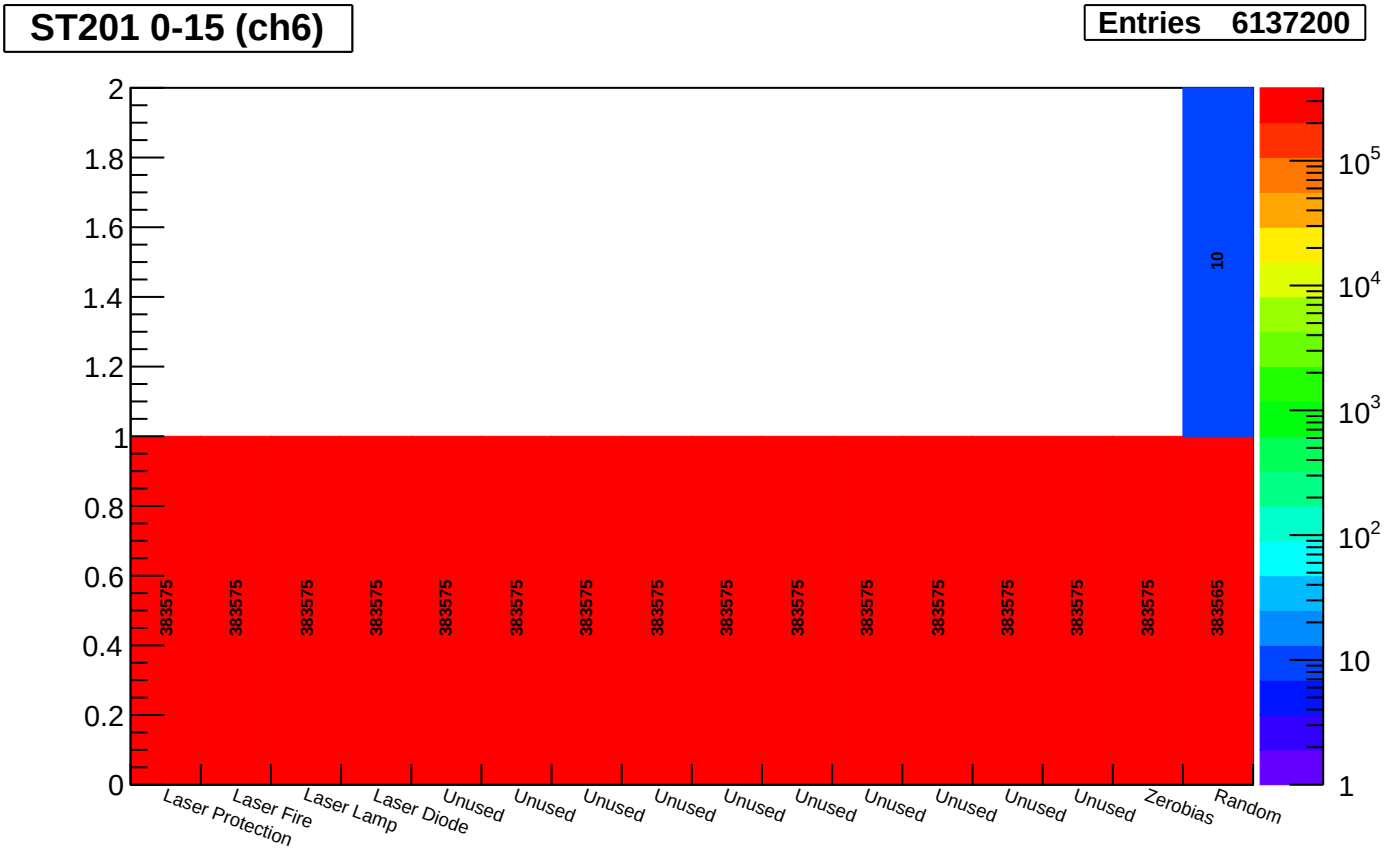

Entries 383575
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

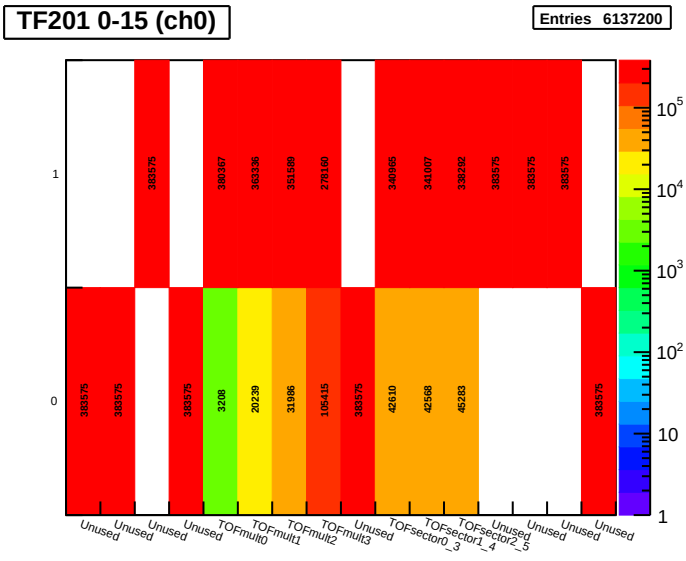

Entries 383575
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

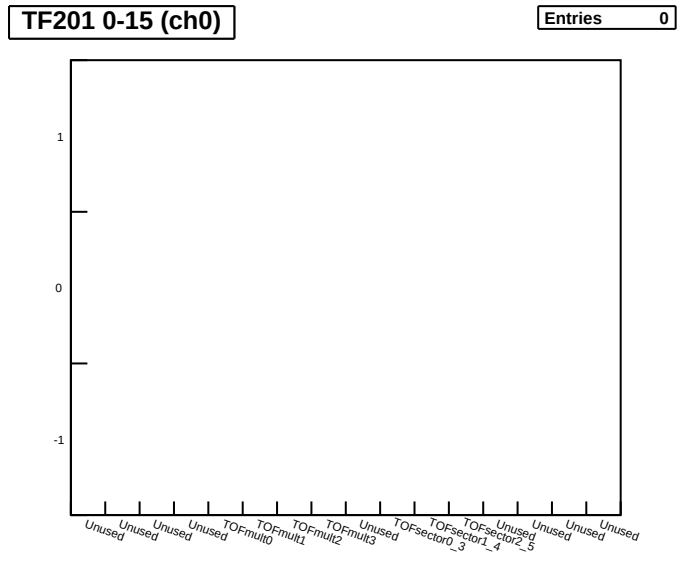

Entries 383575
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

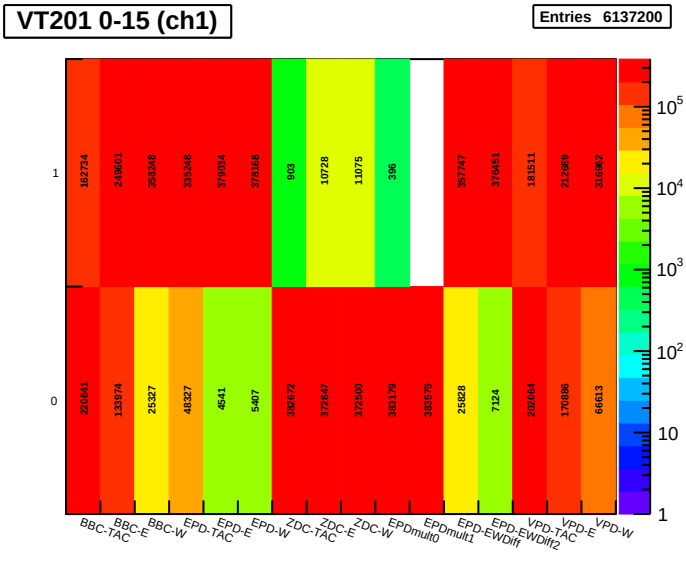

Entries 383575
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

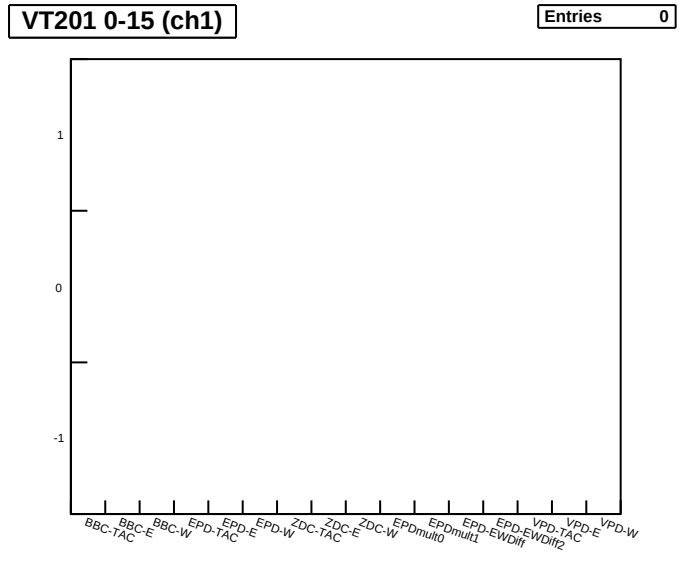

Laser Input Bits
Entries 383575
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

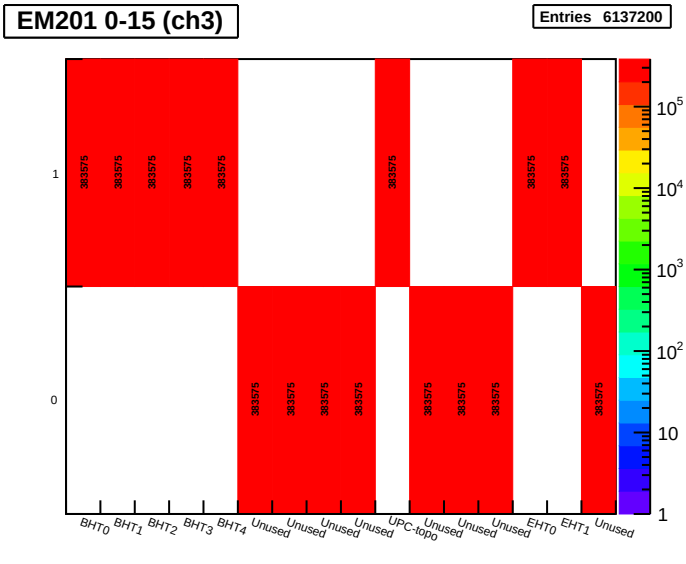

ST201 0-15 (ch6)
Entries 6137200
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10
383575
383565
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

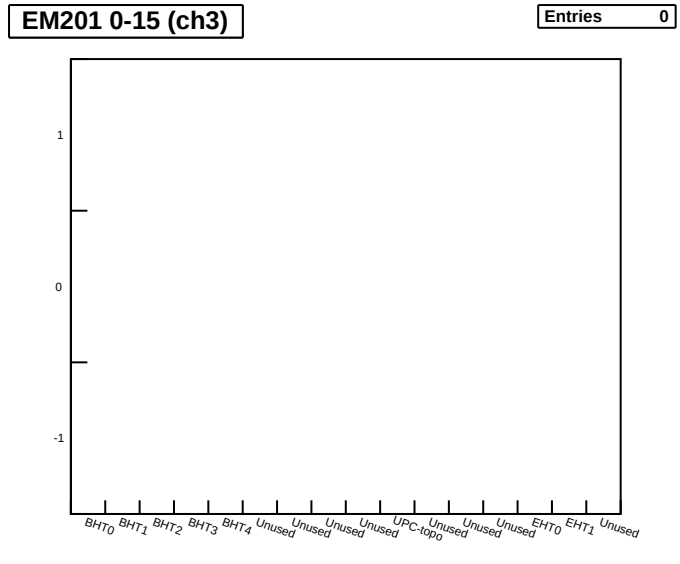

TF201 0-15 (ch0)
Entries 6137200
1
0
383575
380367
363336
351589
278160
340965
341007
338292
383575
383575
383575
383575
383575
383575
3208
20239
31986
105415
42610
42568
45283
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
10^5
10^4
10^3
10^2
10
1


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 6137200
1
0
162734
249601
358248
335248
379034
378168
903
10728
11075
396
357747
376451
181511
212889
316962
220841
133974
25327
48327
4541
5407
382672
372847
372500
383179
383575
25828
7124
202064
170886
66613
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
10^5
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 6137200
1
0
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
383575
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1
10^5
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