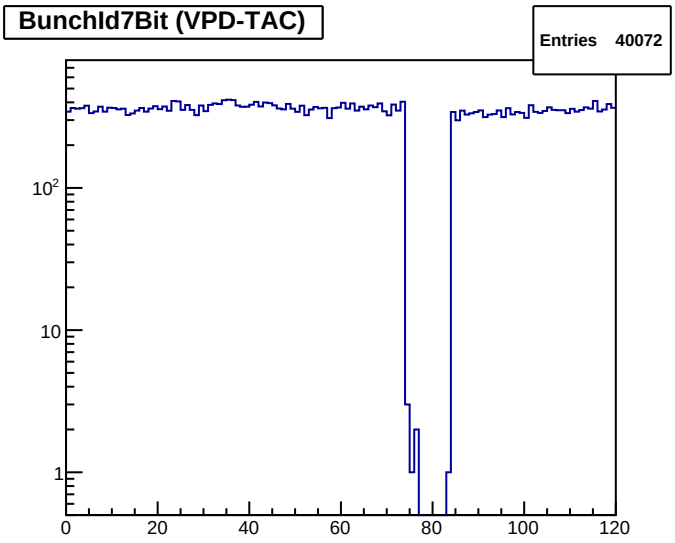
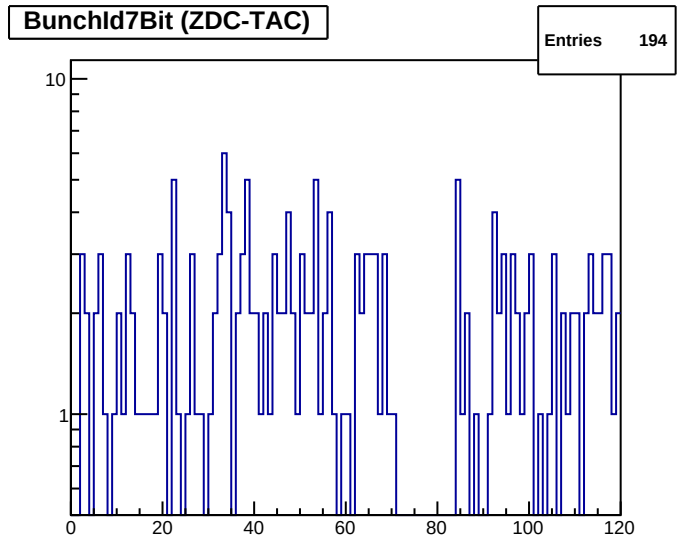
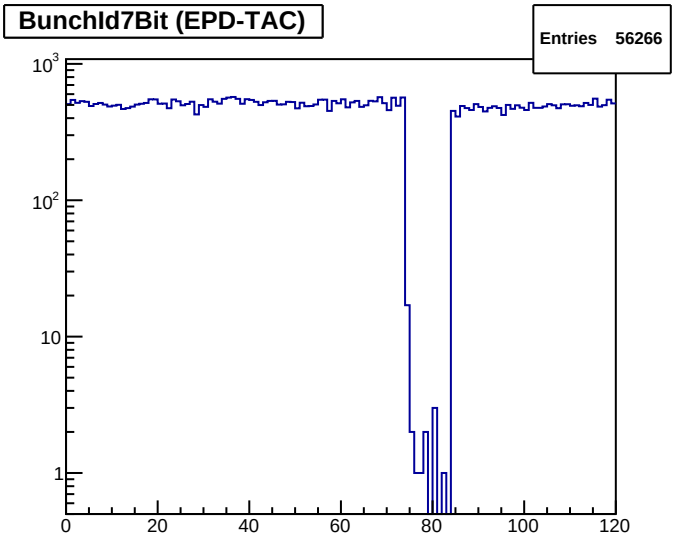
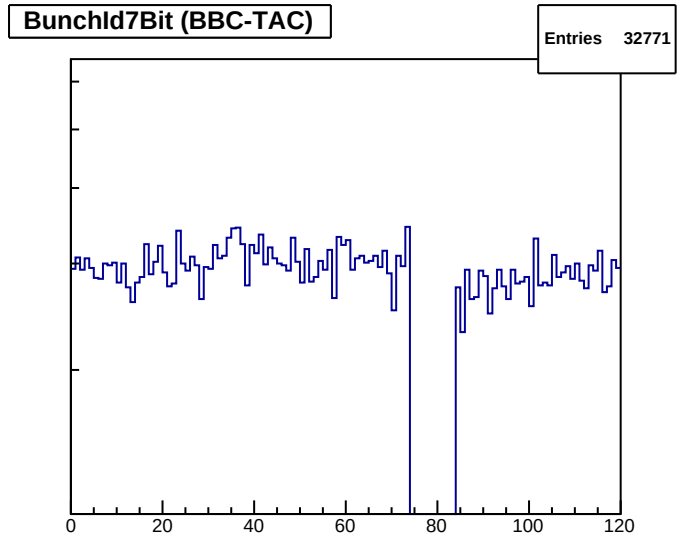
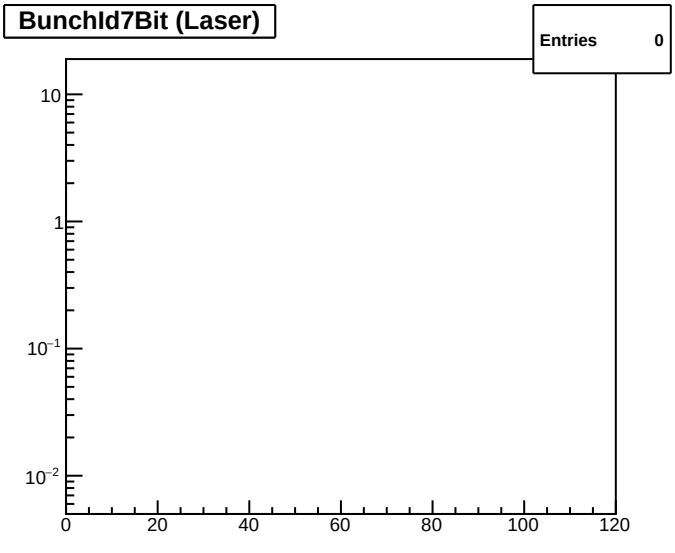
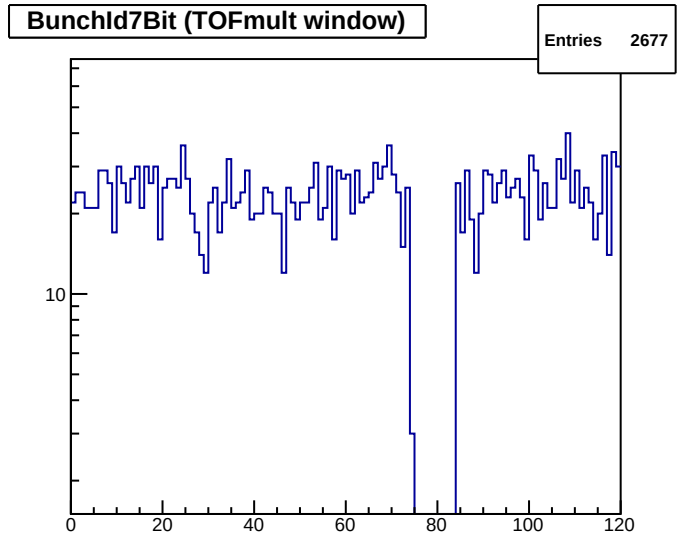

BunchId7Bit (VPD-TAC)
Entries 40072
10^2
10
1
0
20
40
60
80
100
120

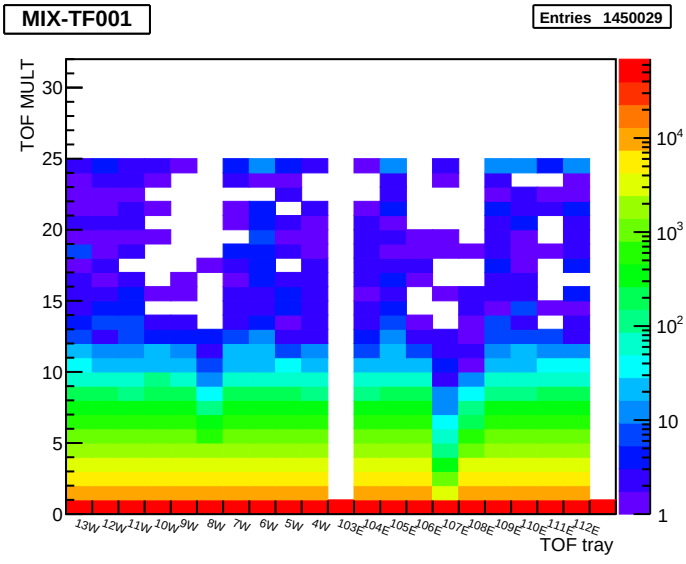

BunchId7Bit (ZDC-TAC)
Entries 194
10
1
0
20
40
60
80
100
120

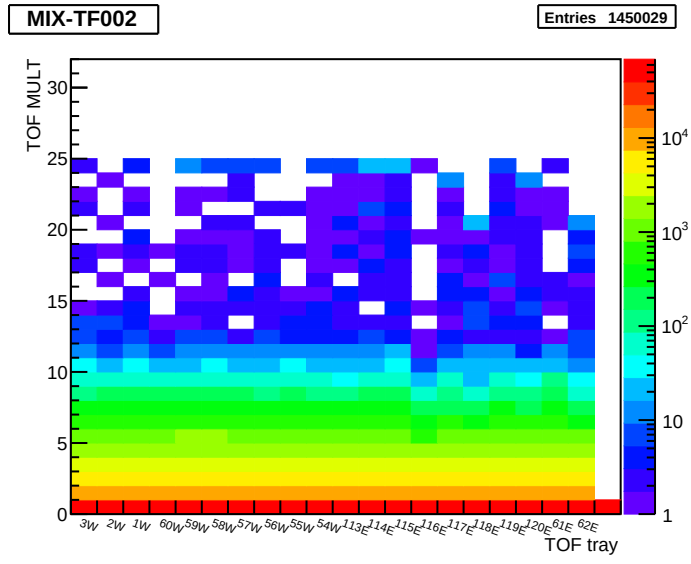

BunchId7Bit (EPD-TAC)
Entries 56266
10^3
10^2
10
1
0
20
40
60
80
100
120

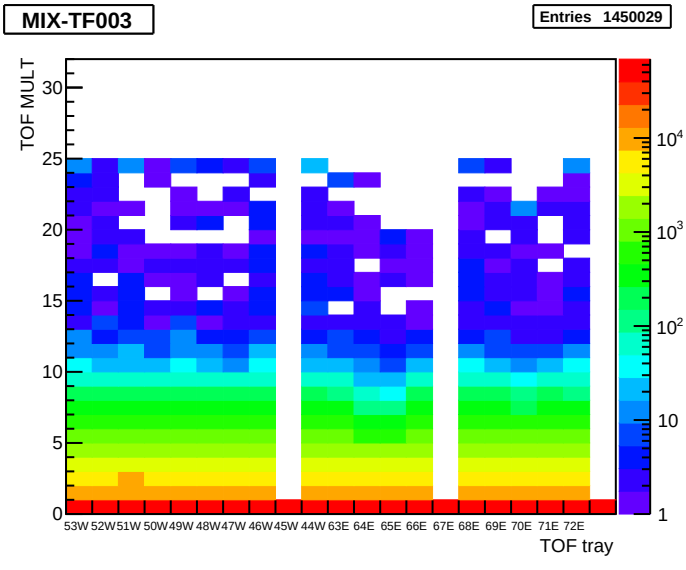

BunchId7Bit (BBC-TAC)
Entries 32771
0
20
40
60
80
100
120

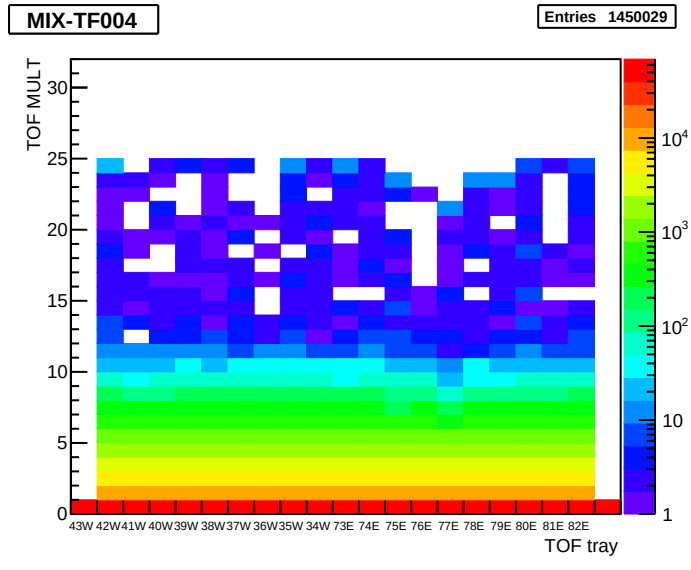

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

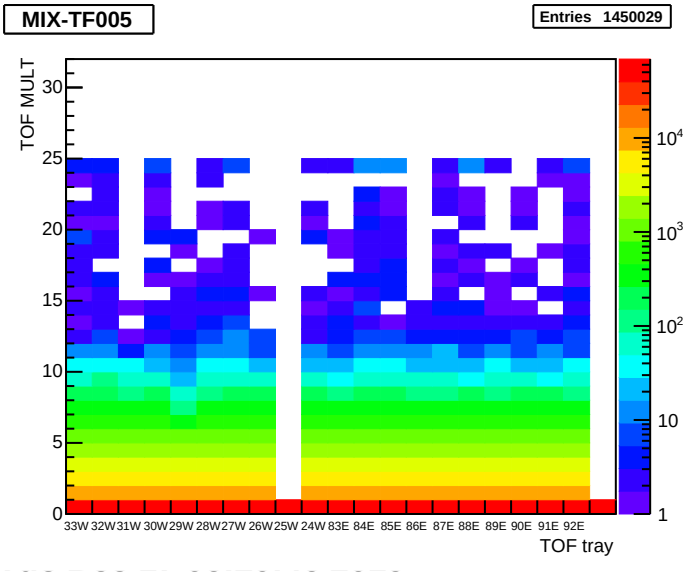

BunchId7Bit (TOFmult window)
Entries 2677
10
0
20
40
60
80
100
120

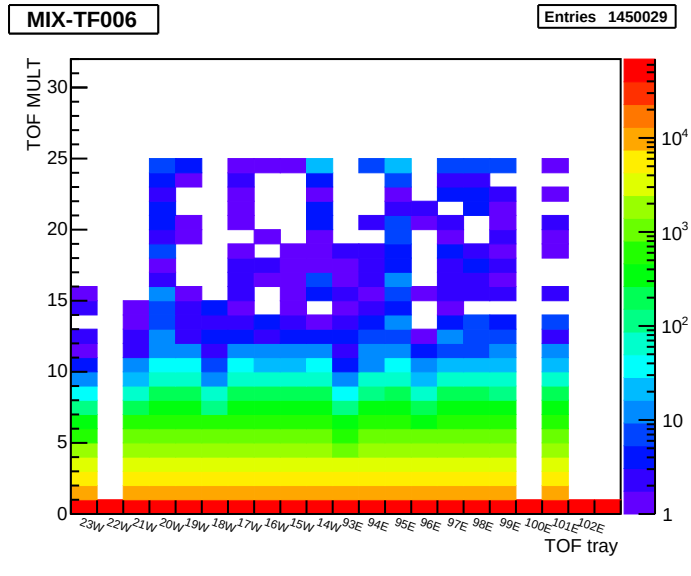

MIX-TF001
Entries 1450029
TOF MULT
TOF tray

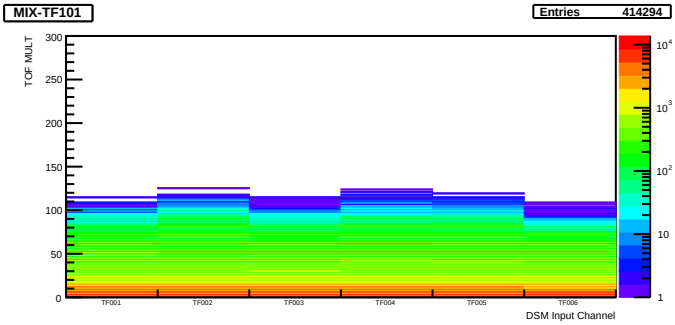

MIX-TF002
Entries 1450029
TOF MULT
TOF tray

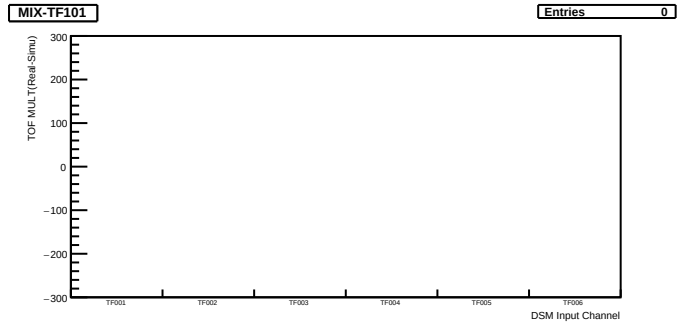

MIX-TF003
Entries 1450029
TOF MULT
TOF tray

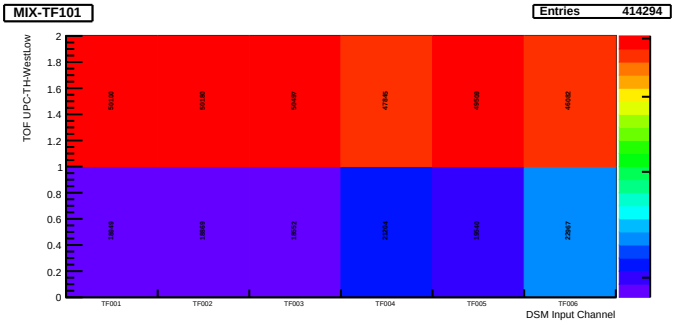

MIX-TF004
Entries 1450029
TOF MULT
TOF tray

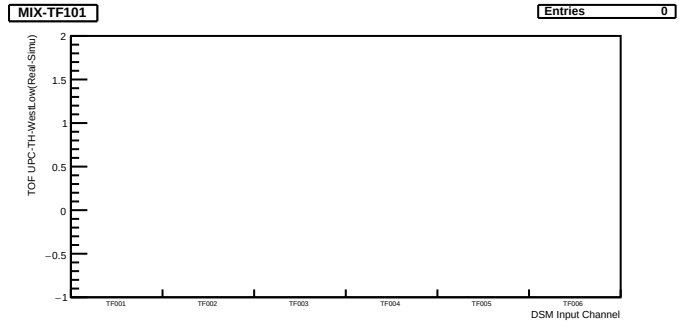

MIX-TF005
Entries 1450029
TOF MULT
TOF tray

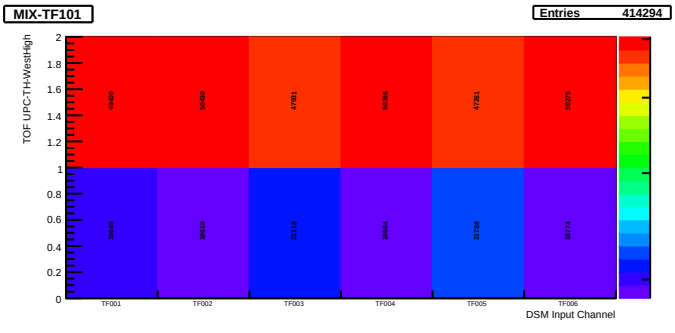

MIX-TF006
Entries 1450029
TOF MULT
TOF tray

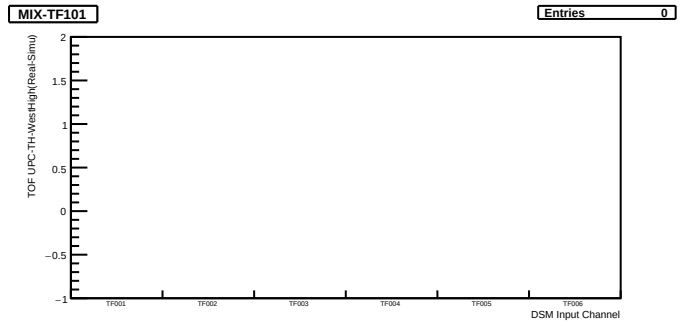

MIX-TF101
Entries 414294
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

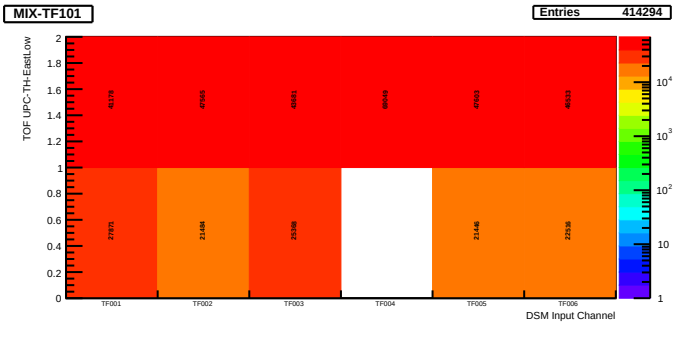

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

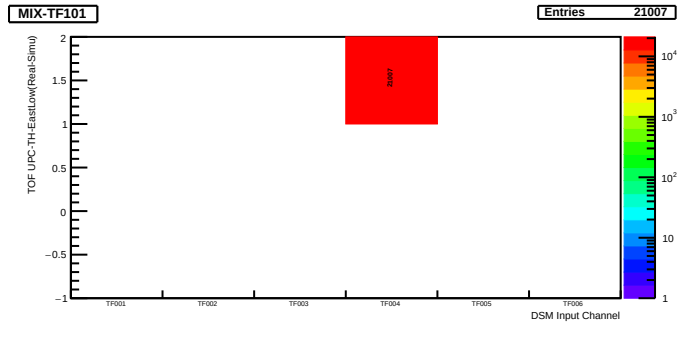

MIX-TF101
Entries 414294
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

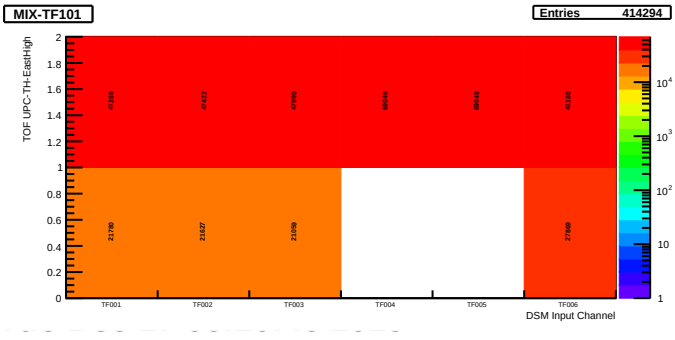

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

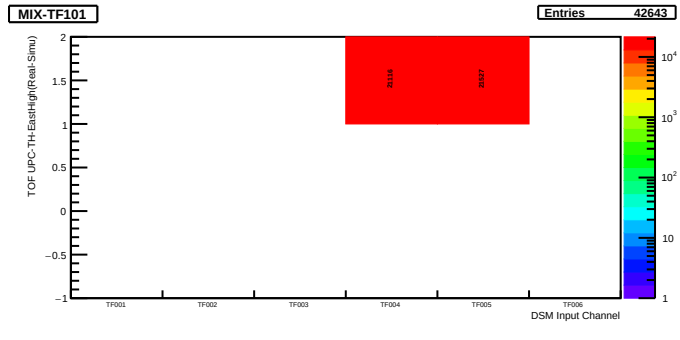

MIX-TF101
Entries 414294
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

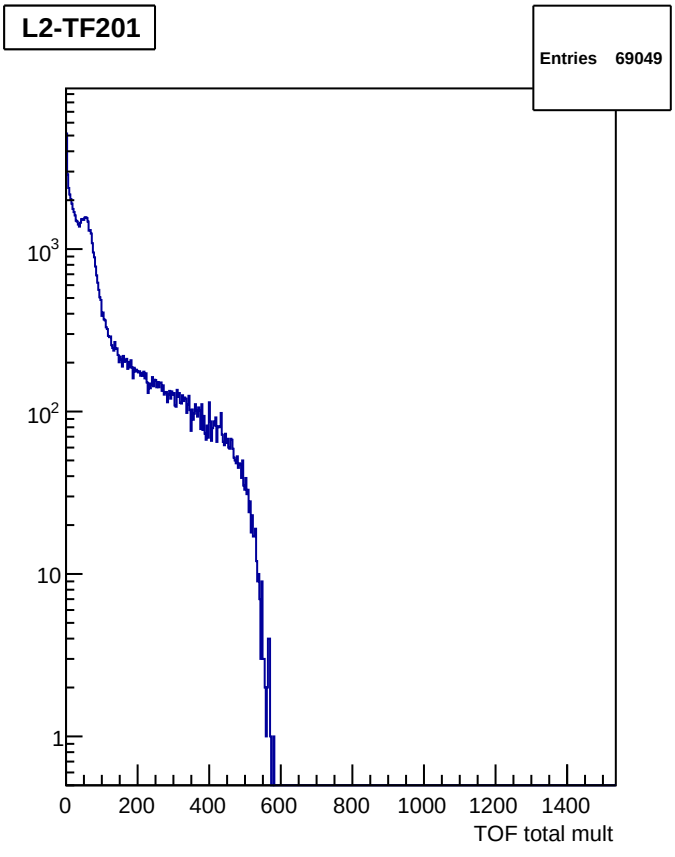

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

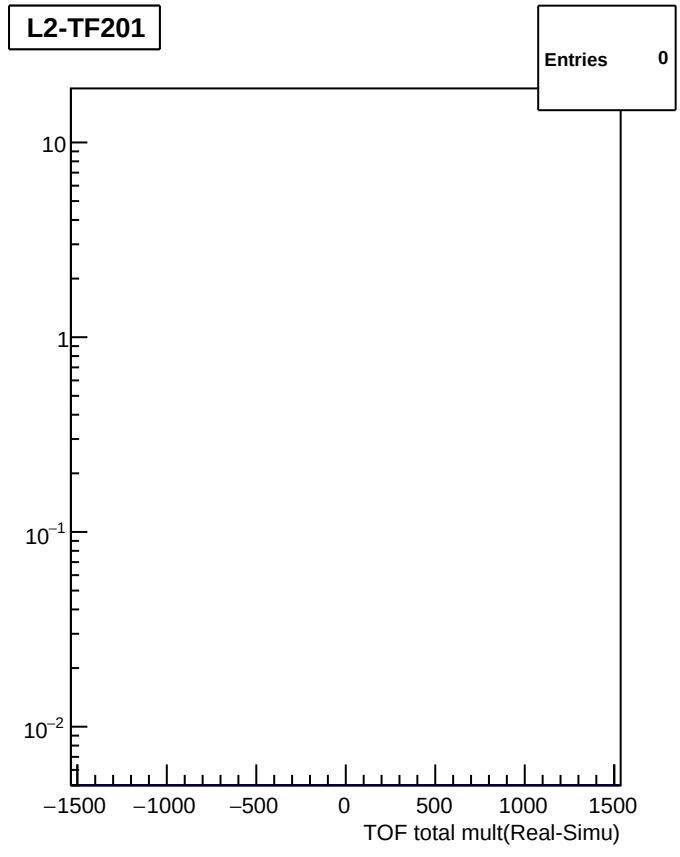

MIX-TF101
Entries 414294
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

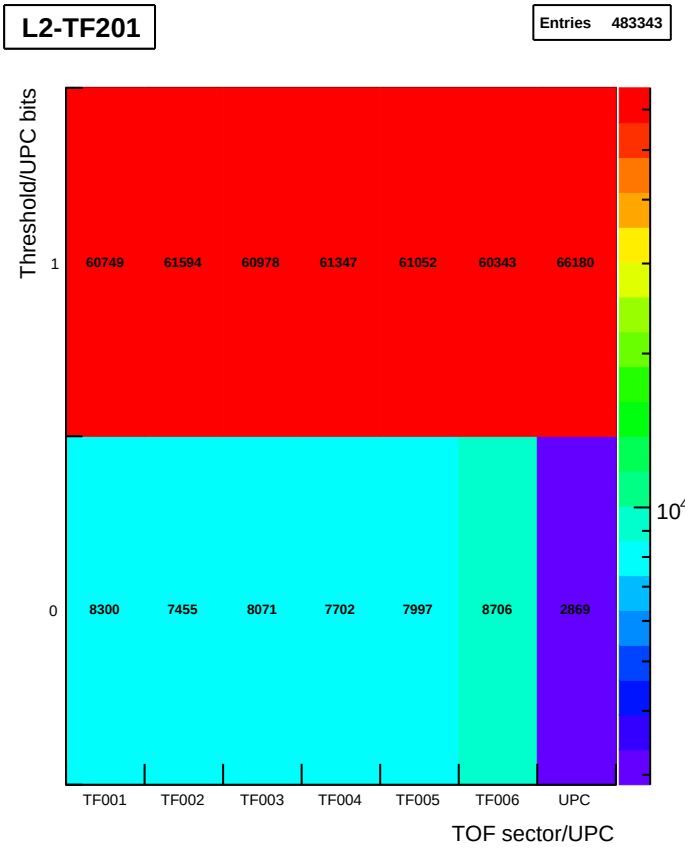

MIX-TF101
Entries 21007
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

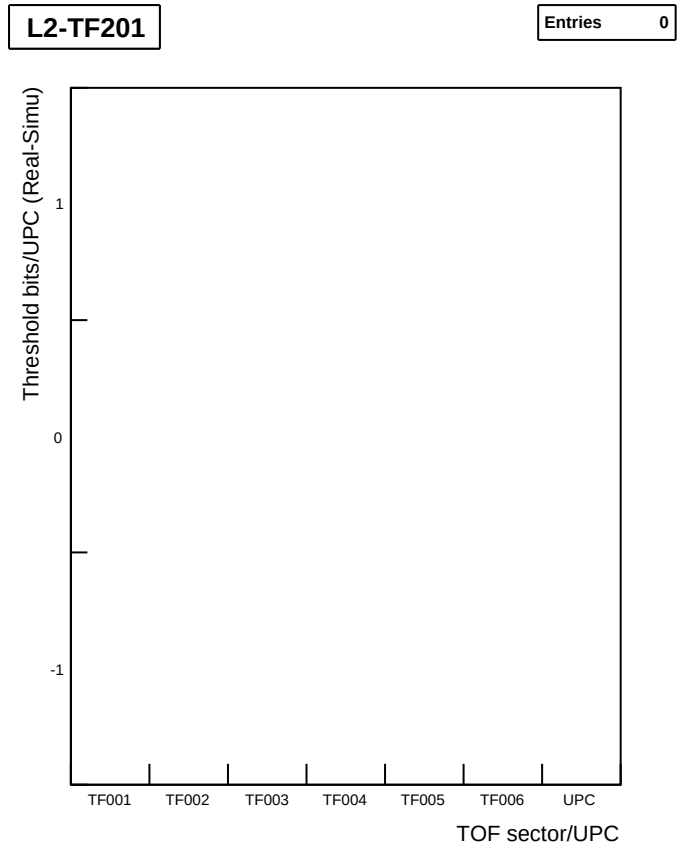

MIX-TF101
Entries 414294
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

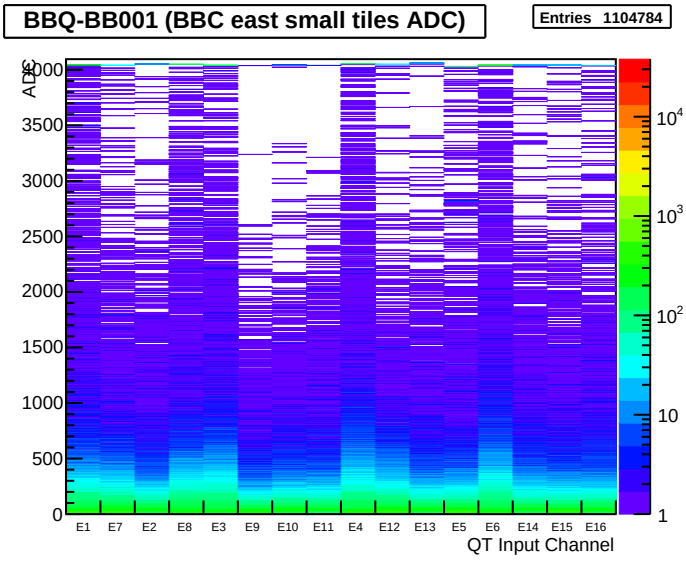

MIX-TF101
Entries 42643
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

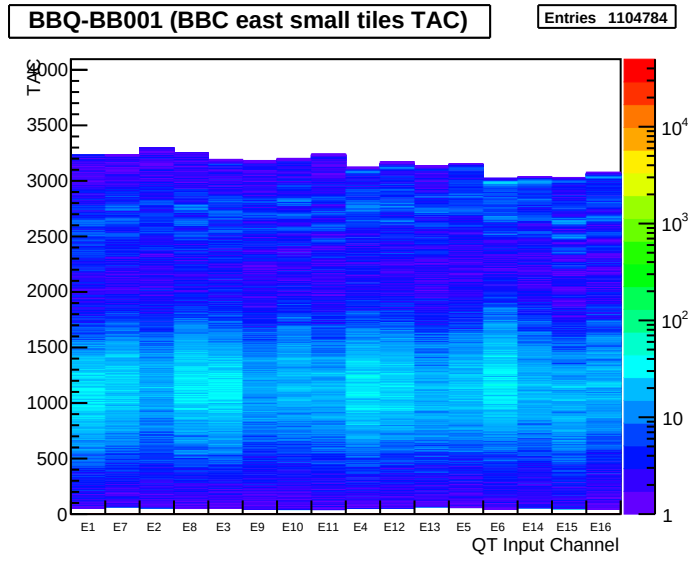

L2-TF201
Entries 69049
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

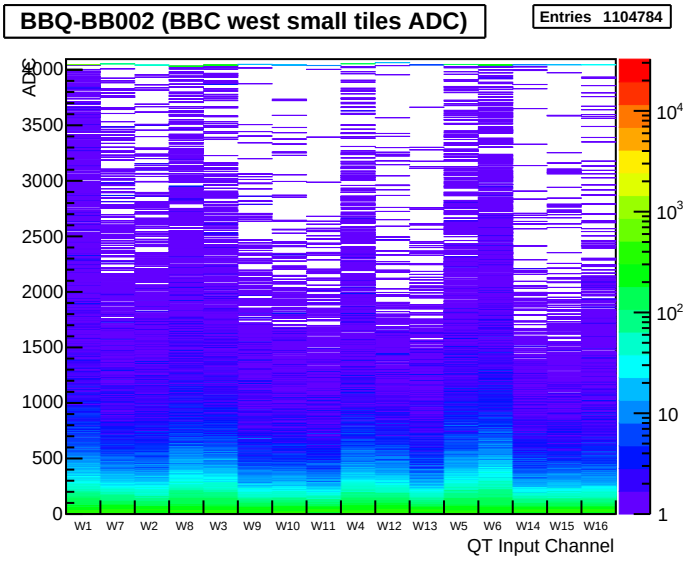

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

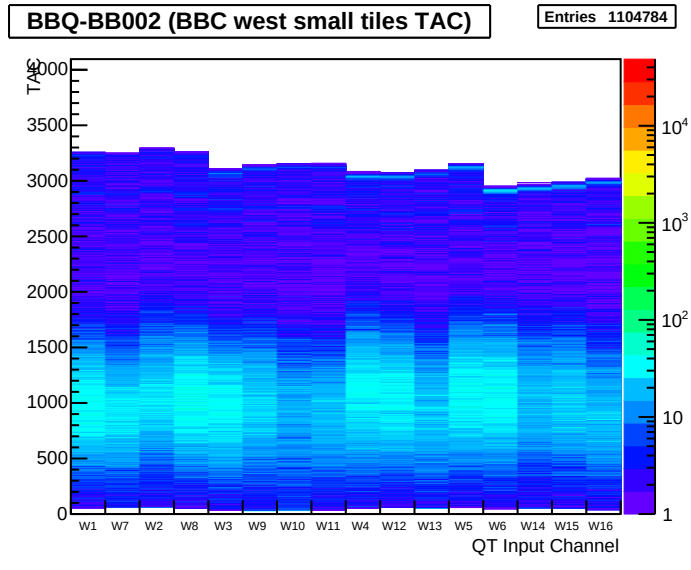

L2-TF201
Entries 483343
Threshold/UPC bits
1
0
60749
61594
60978
61347
61052
60343
66180
8300
7455
8071
7702
7997
8706
2869
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

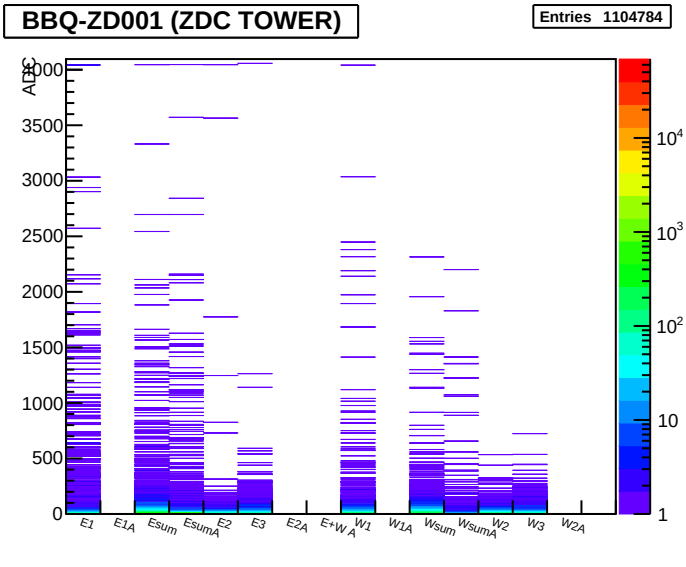

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

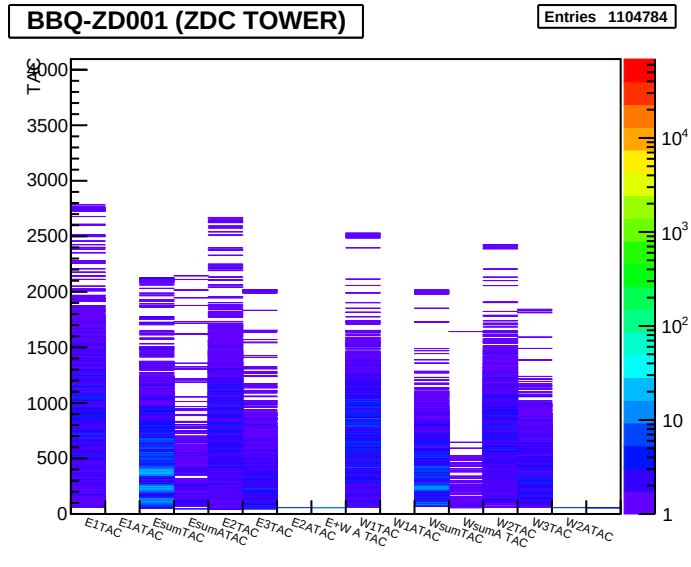

BBQ-BB001 (BBC east small tiles ADC)
Entries 1104784
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

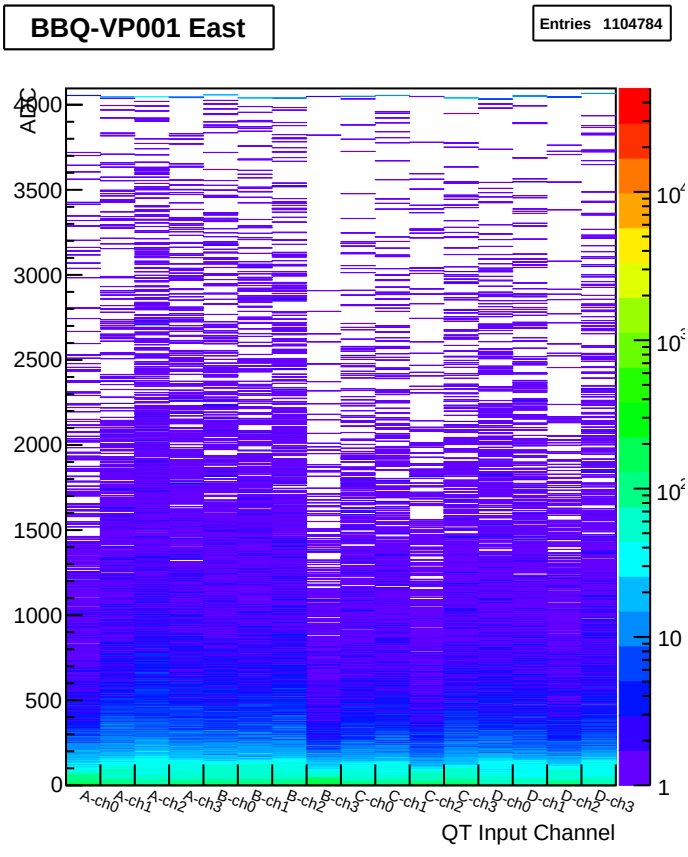

BBQ-BB001 (BBC east small tiles TAC)
Entries 1104784
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

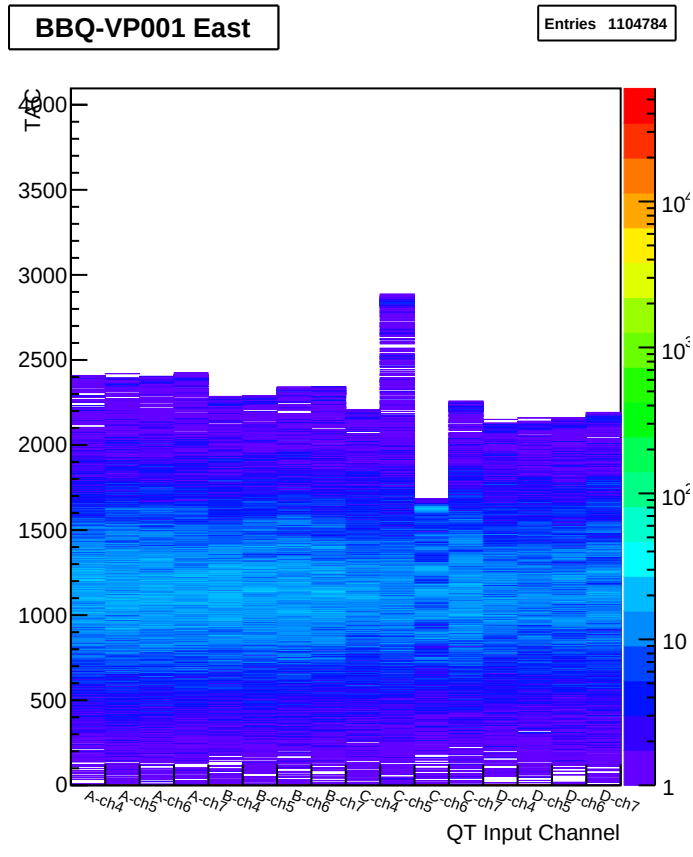

BBQ-BB002 (BBC west small tiles ADC)
Entries 1104784
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

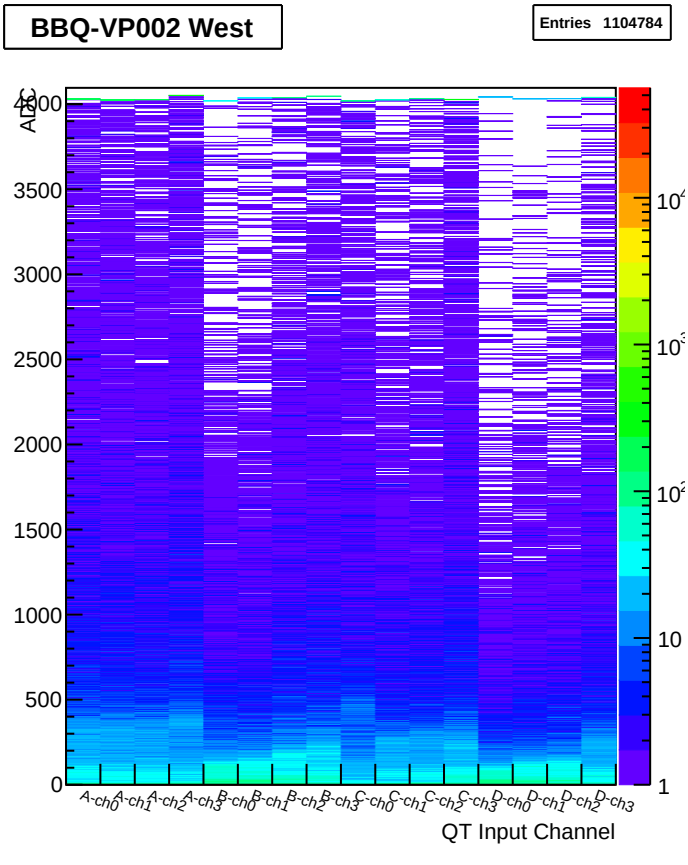

BBQ-BB002 (BBC west small tiles TAC)
Entries 1104784
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

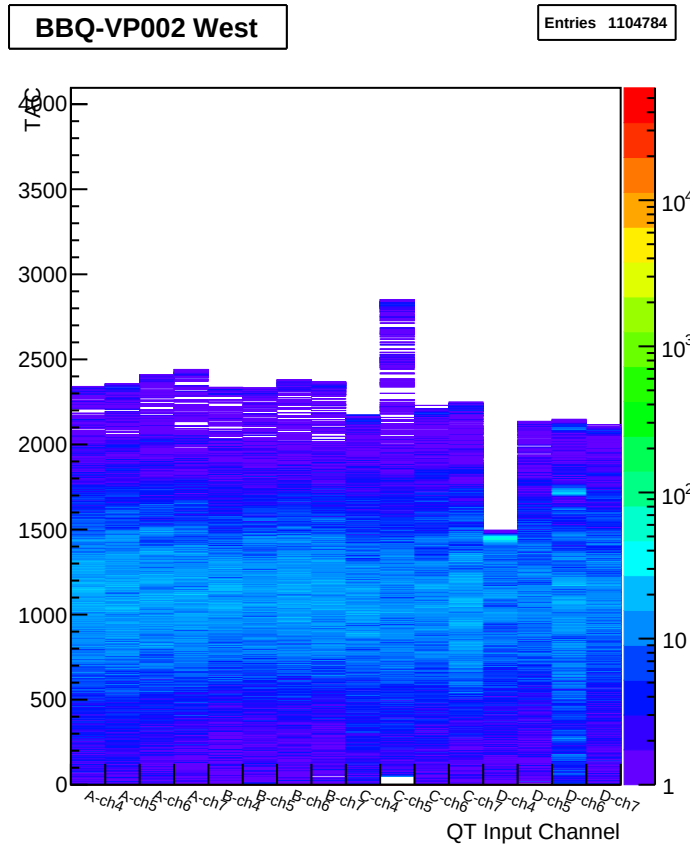

BBQ-ZD001 (ZDC TOWER)
Entries 1104784
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

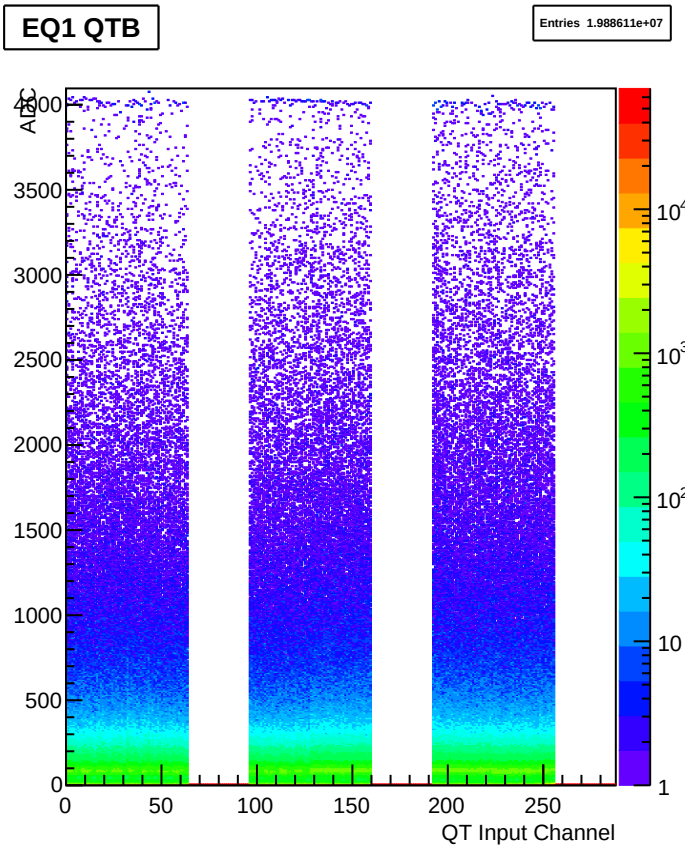

BBQ-ZD001 (ZDC TOWER)
Entries 1104784
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

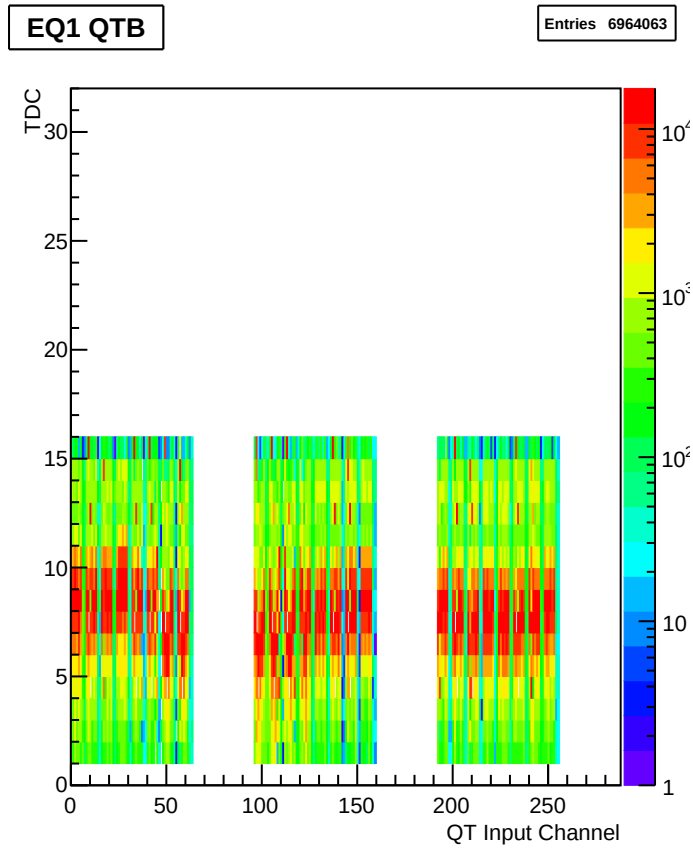

BBQ-VP001 East
Entries 1104784
ADC
QT Input Channel

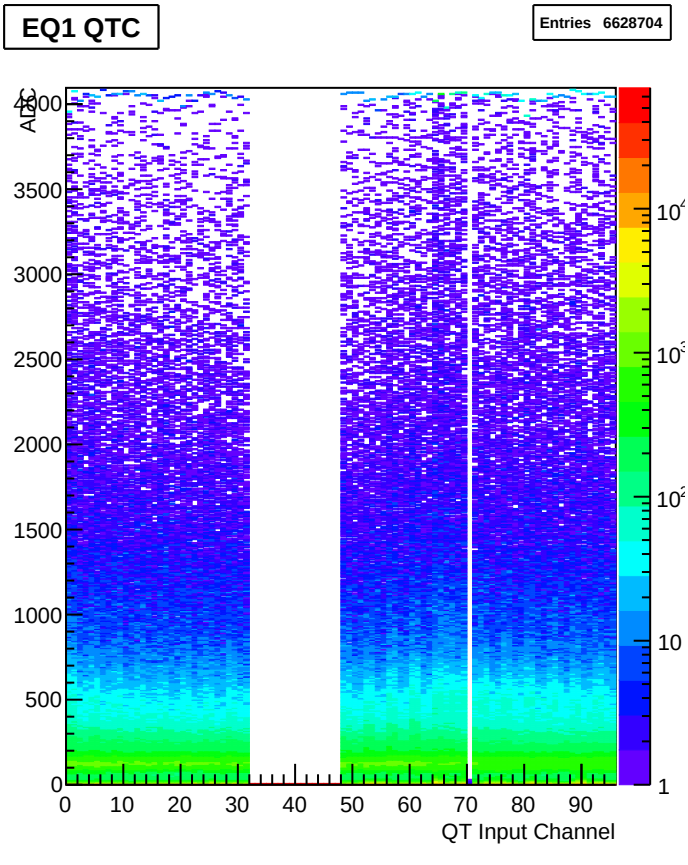

BBQ-VP001 East
Entries 1104784
TADC
QT Input Channel

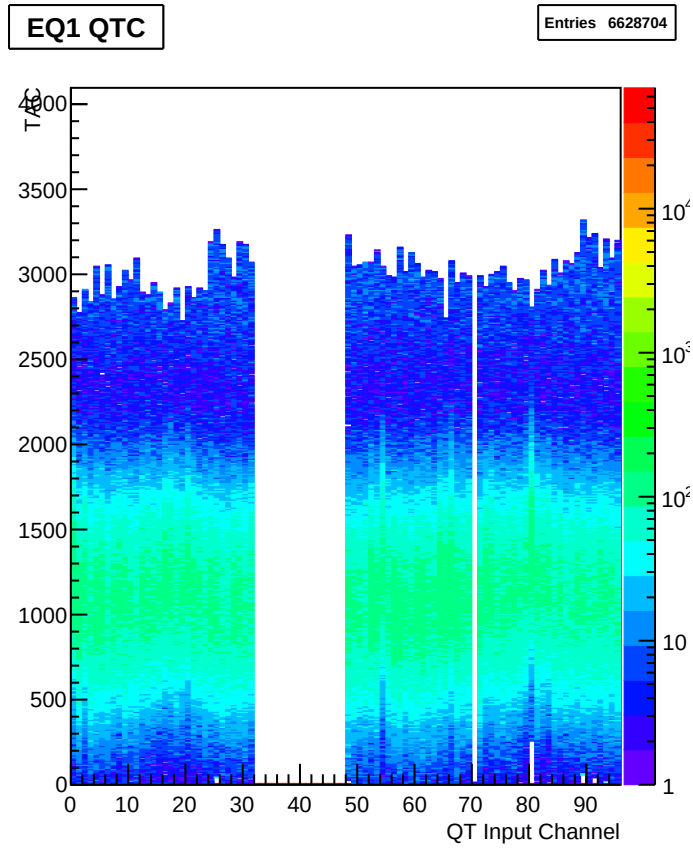

BBQ-VP002 West
Entries 1104784
ADC
QT Input Channel

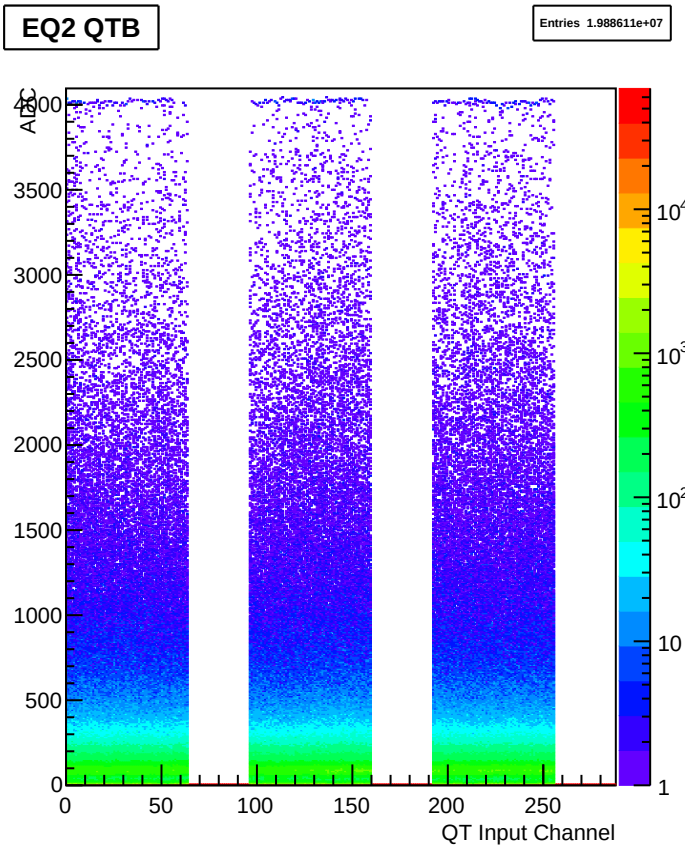

BBQ-VP002 West
Entries 1104784
TADC
QT Input Channel

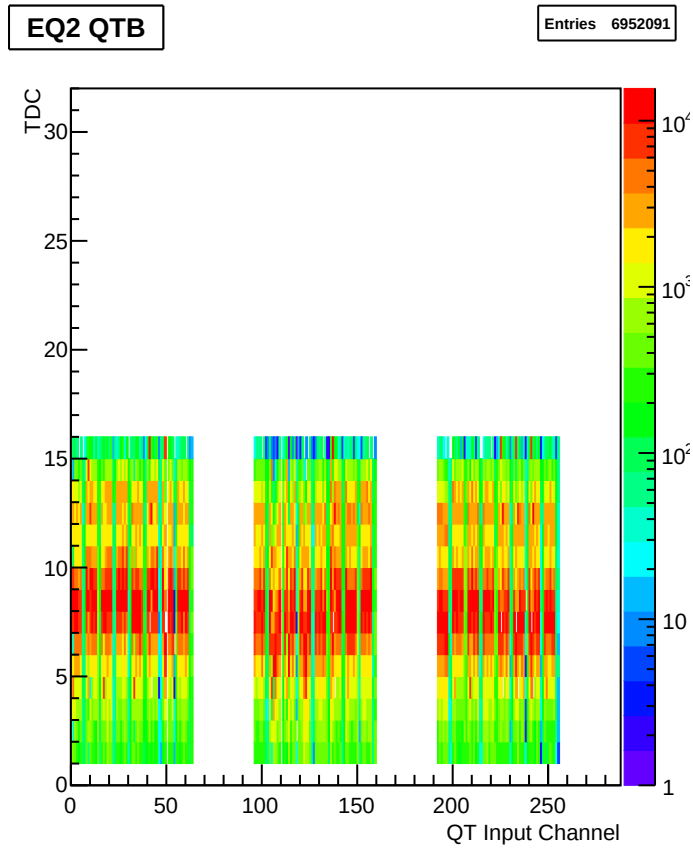

EQ1 QTB
Entries 1.988611e+07
ADC
QT Input Channel

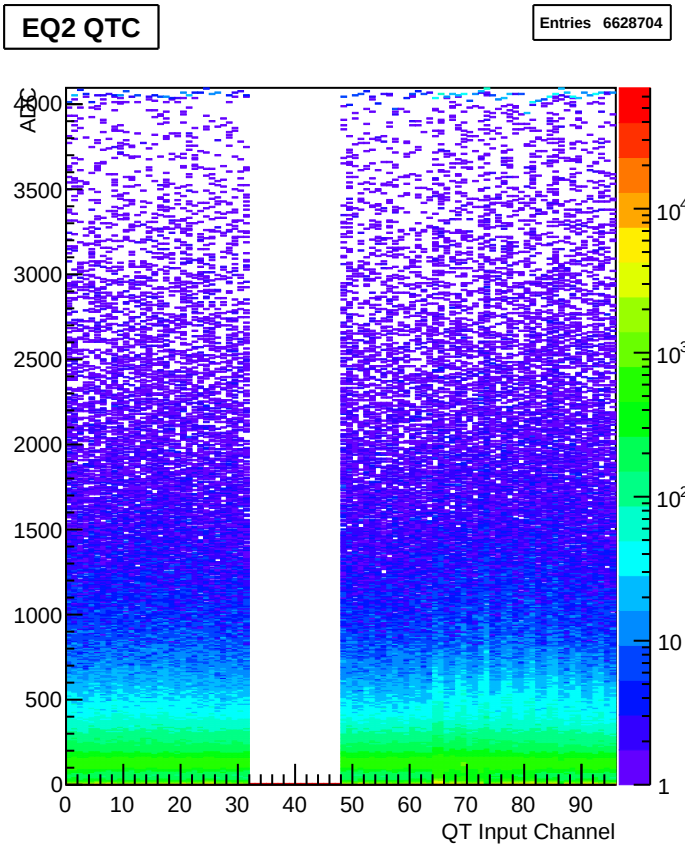

EQ1 QTB
Entries 6964063
TDC
QT Input Channel

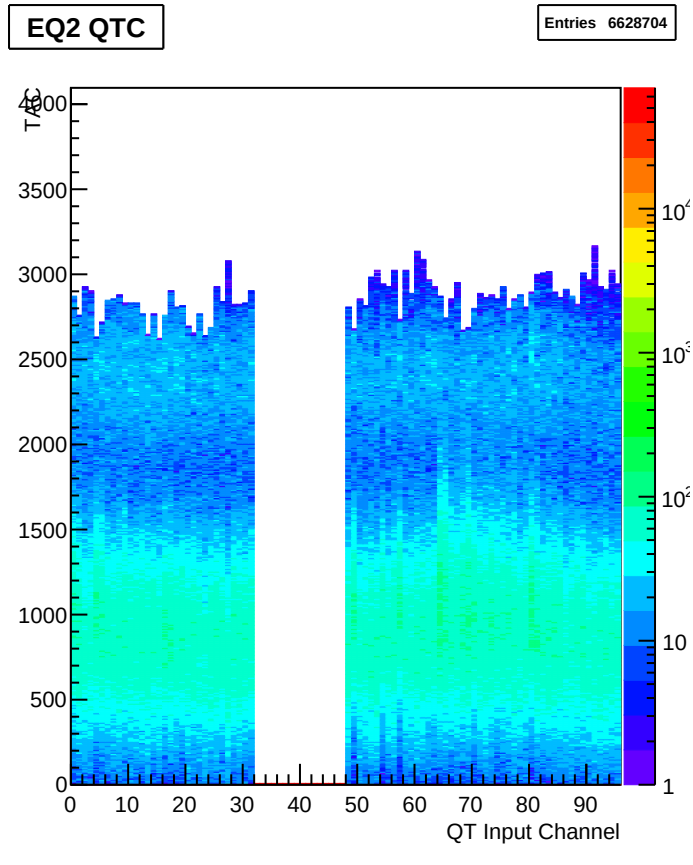

EQ1 QTC
Entries 6628704
ADC
QT Input Channel

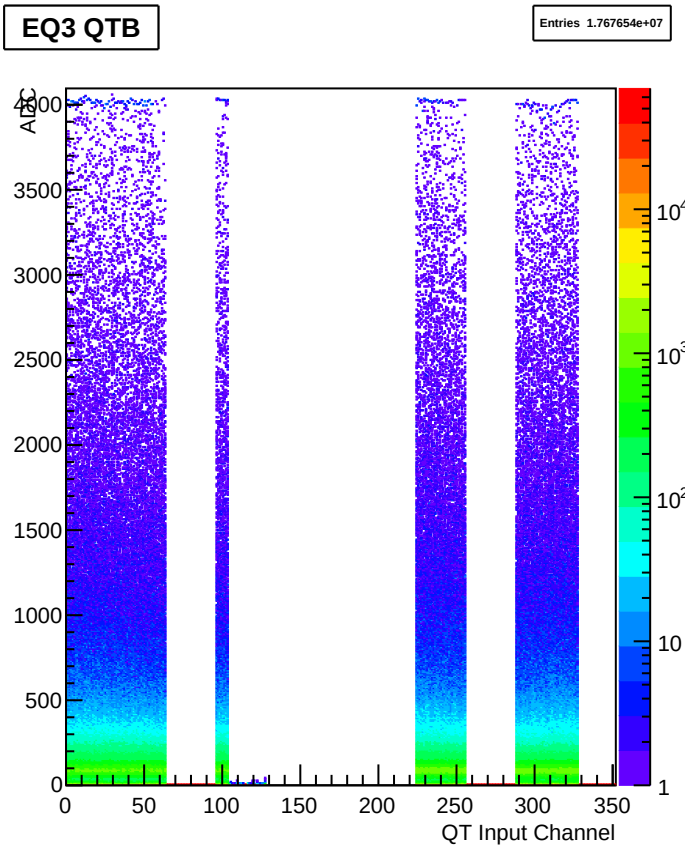

EQ1 QTC
Entries 6628704
TADC
QT Input Channel

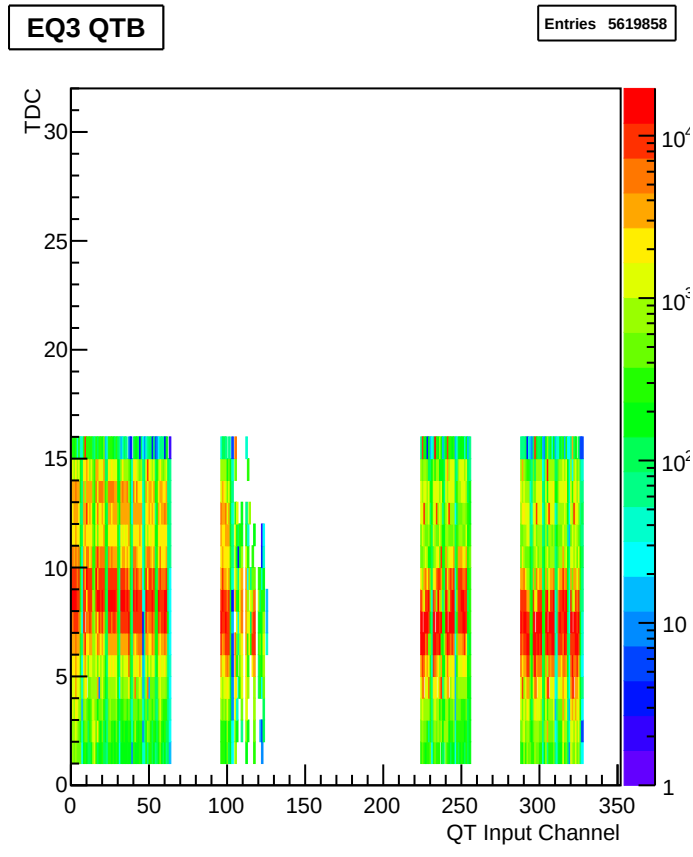

EQ2 QTB
Entries 1.988611e+07
ADC
QT Input Channel

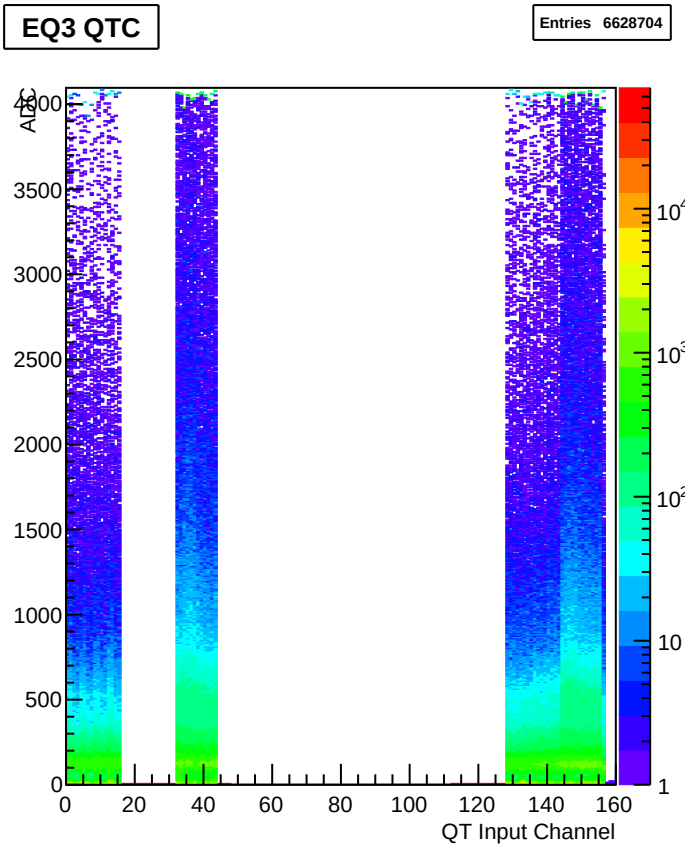

EQ2 QTB
Entries 6952091
TDC
QT Input Channel

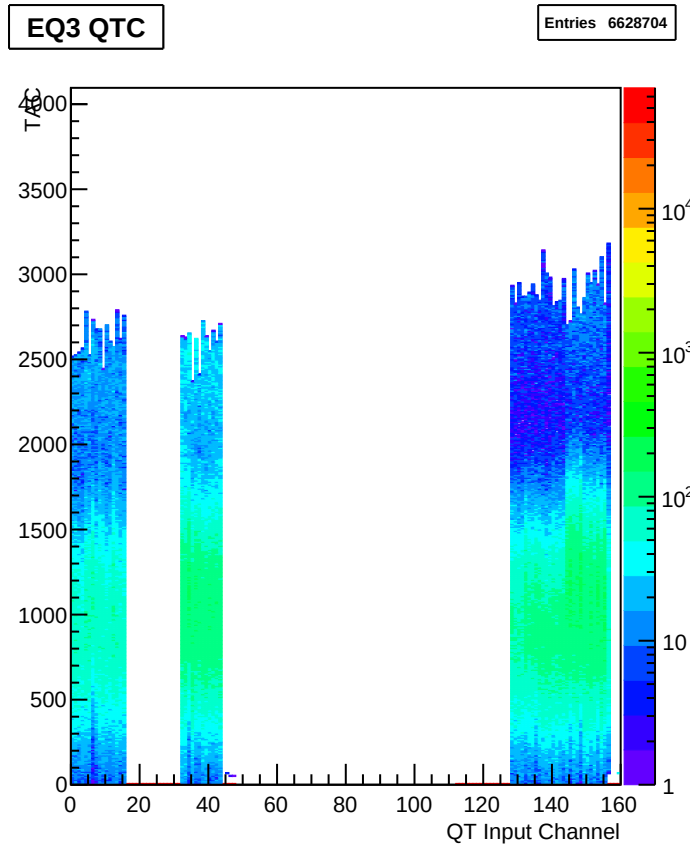

EQ2 QTC
Entries 6628704
ADC
QT Input Channel

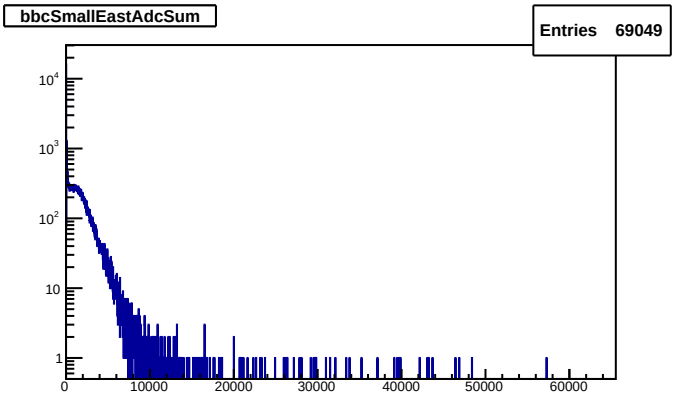

EQ2 QTC
Entries 6628704
TADC
QT Input Channel

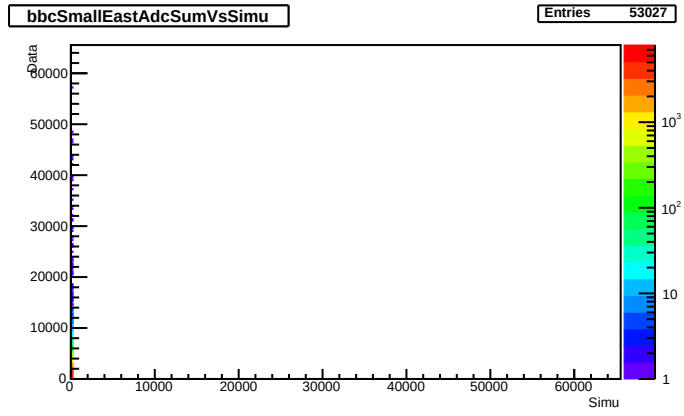

EQ3 QTB
Entries 1.767654e+07
ADC
QT Input Channel

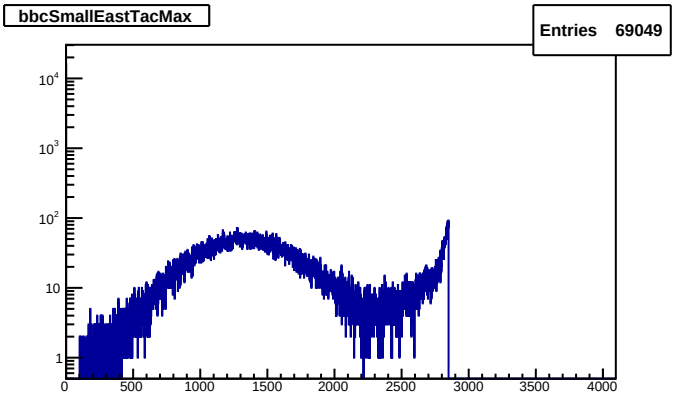

EQ3 QTB
Entries 5619858
TDC
QT Input Channel

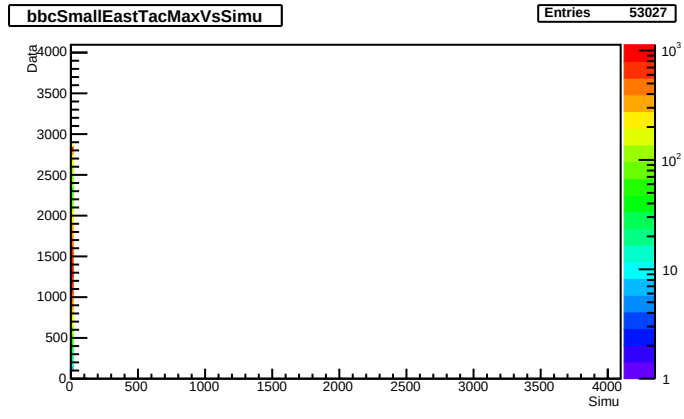

EQ3 QTC
Entries 6628704
ADC
QT Input Channel

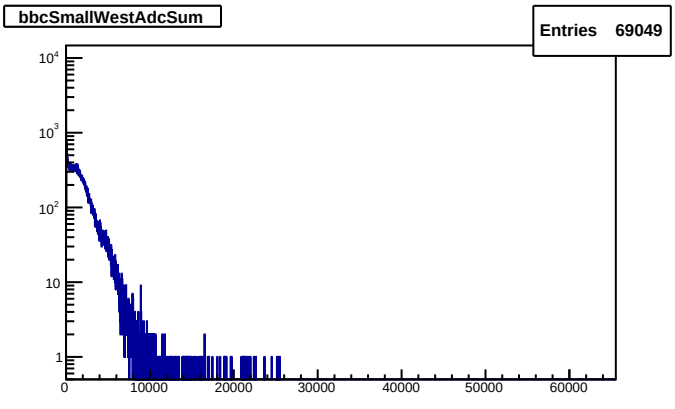

EQ3 QTC
Entries 6628704
TADC
QT Input Channel

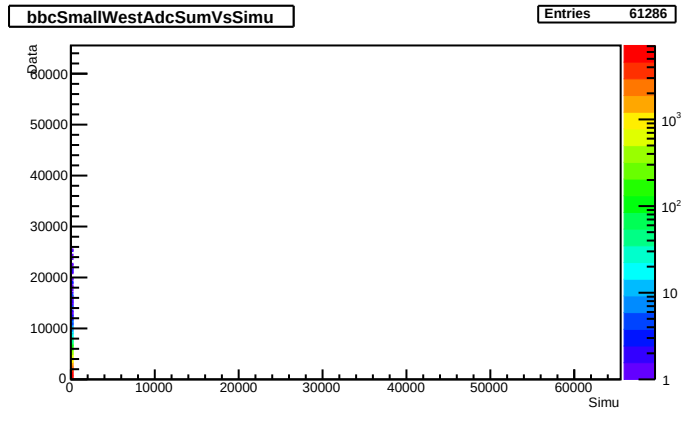

bbcSmallEastAdcSum
Entries 69049

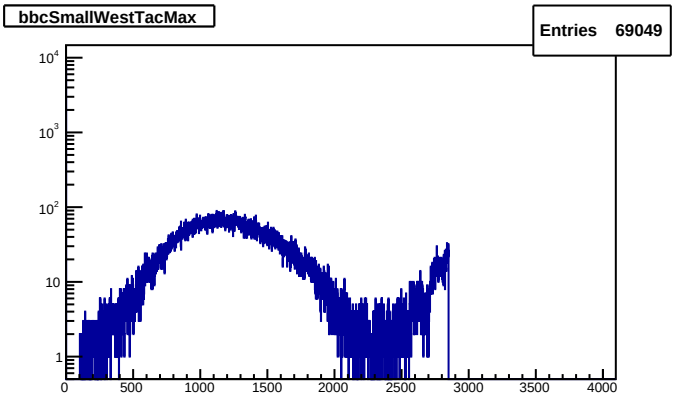

bbcSmallEastAdcSumVsSimu
Entries 53027
Data
Simu

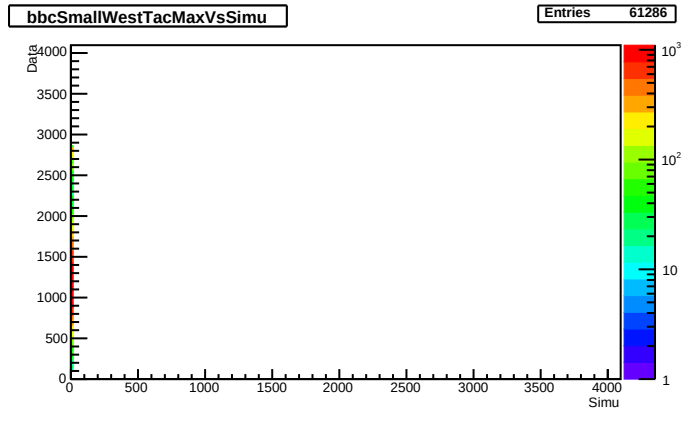

bbcSmallEastTacMax
Entries 69049

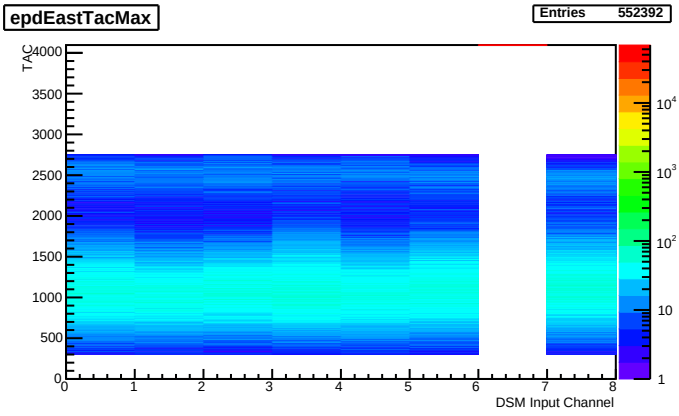

bbcSmallEastTacMaxVsSimu
Entries 53027
Data
Simu

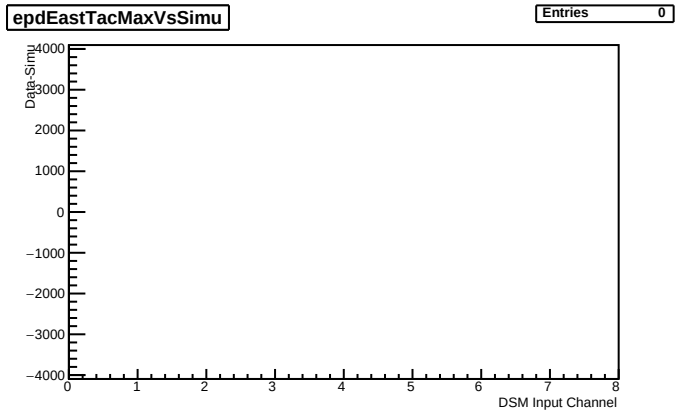

bbcSmallWestAdcSum
Entries 69049

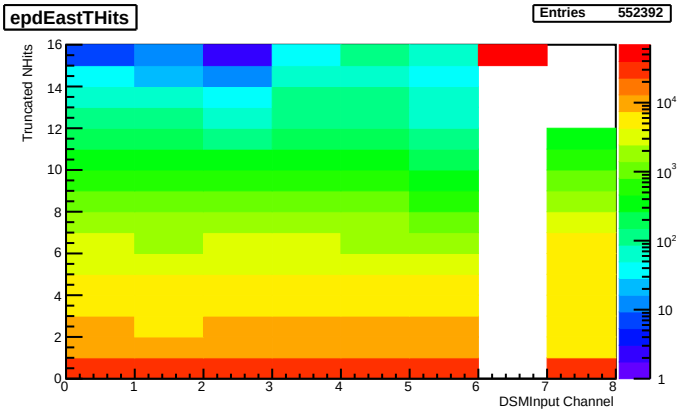

bbcSmallWestAdcSumVsSimu
Entries 61286
Data
Simu

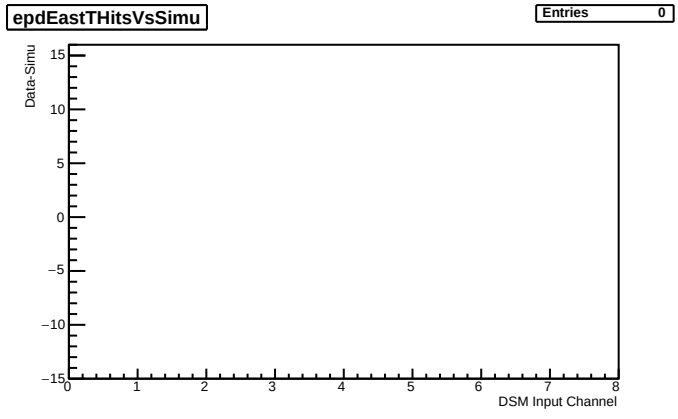

bbcSmallWestTacMax
Entries 69049

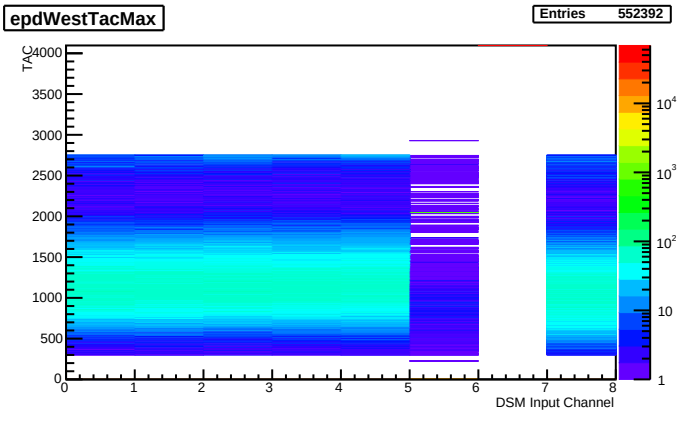

bbcSmallWestTacMaxVsSimu
Entries 61286
Data
Simu

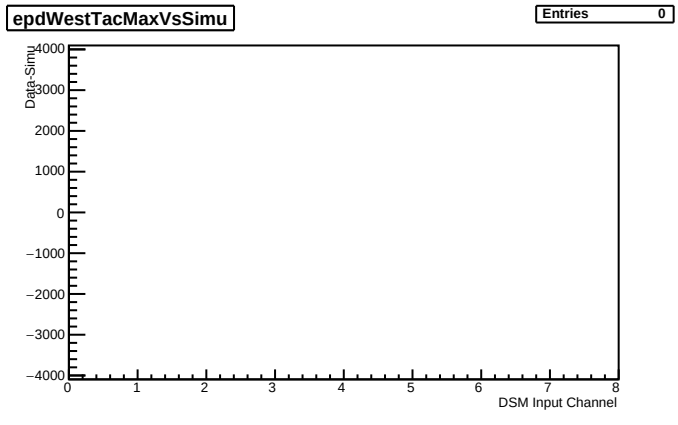

epdEastTacMax
Entries 552392
TAC
DSM Input Channel

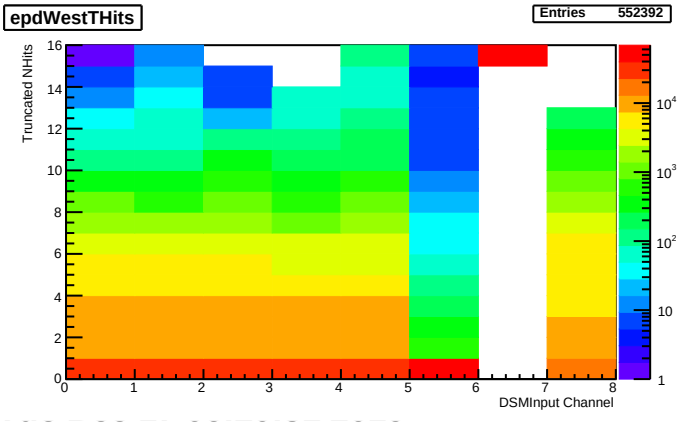

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

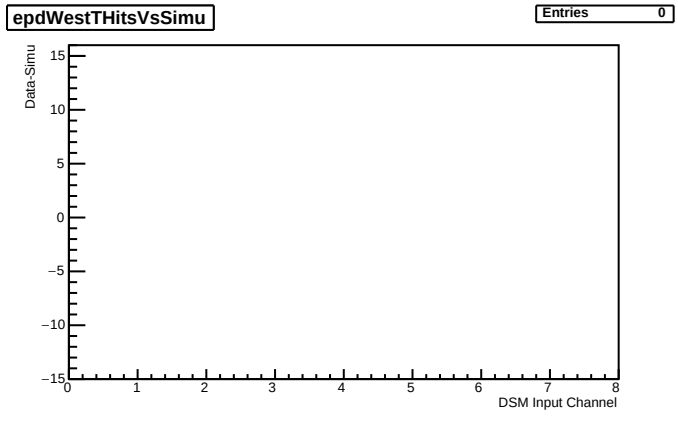

epdEastTHits
Entries 552392
Truncated NHits
DSMInput Channel

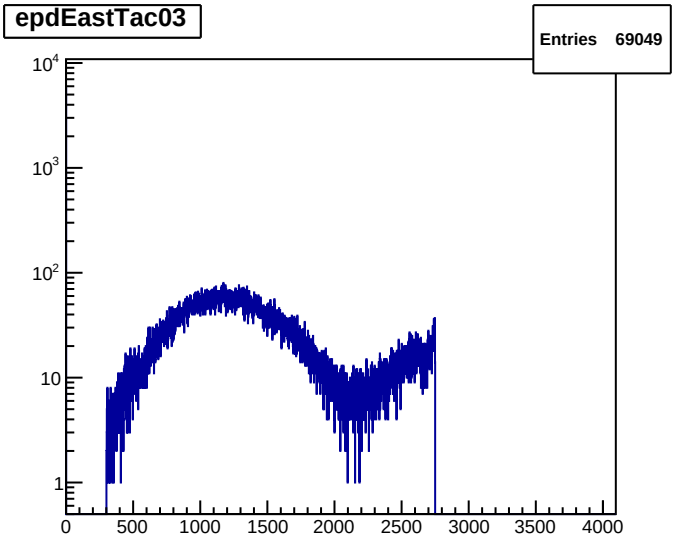

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

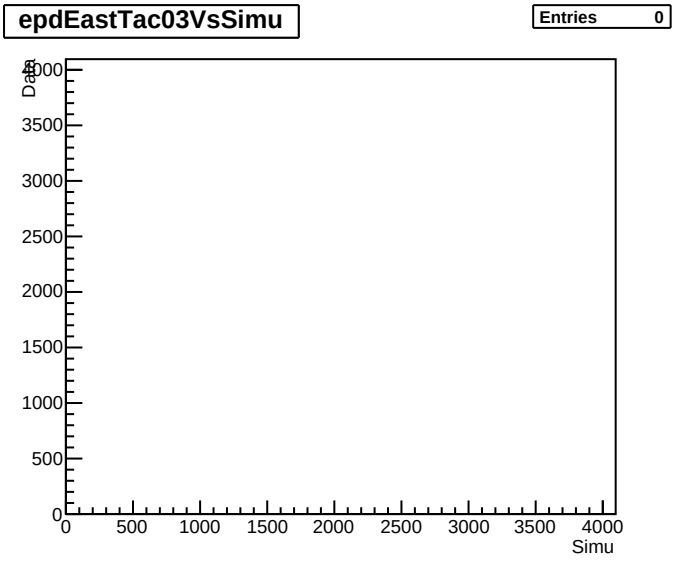

epdWestTacMax
Entries 552392
TAC
DSM Input Channel

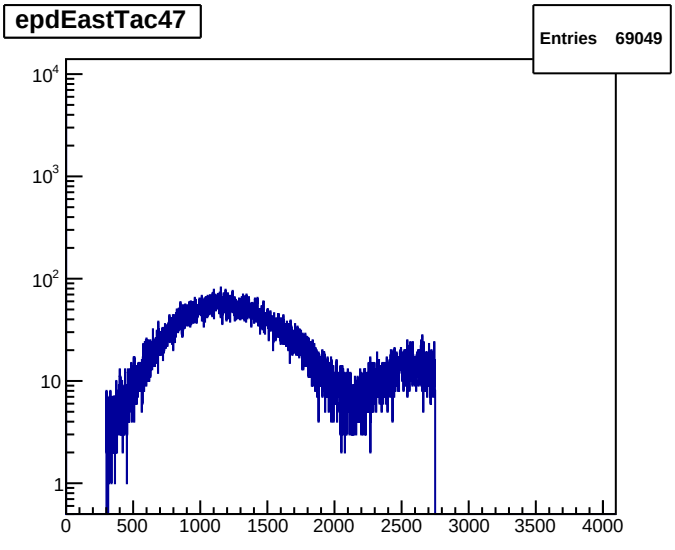

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

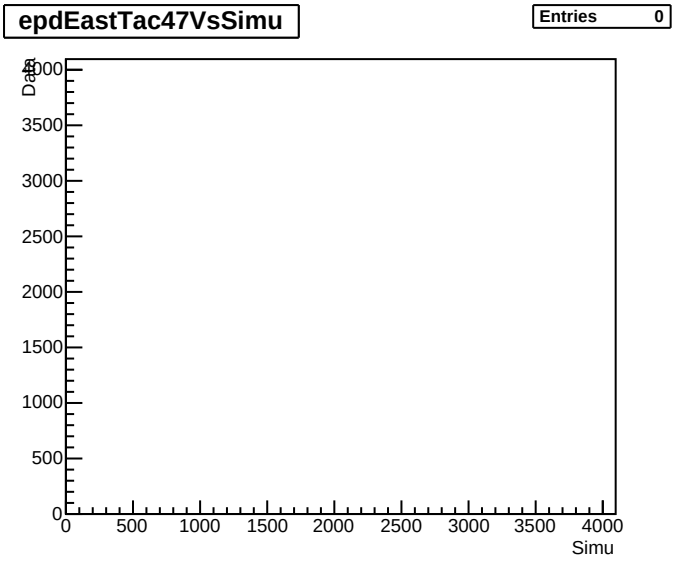

epdWestTHits
Entries 552392
Truncated NHits
DSMInput Channel

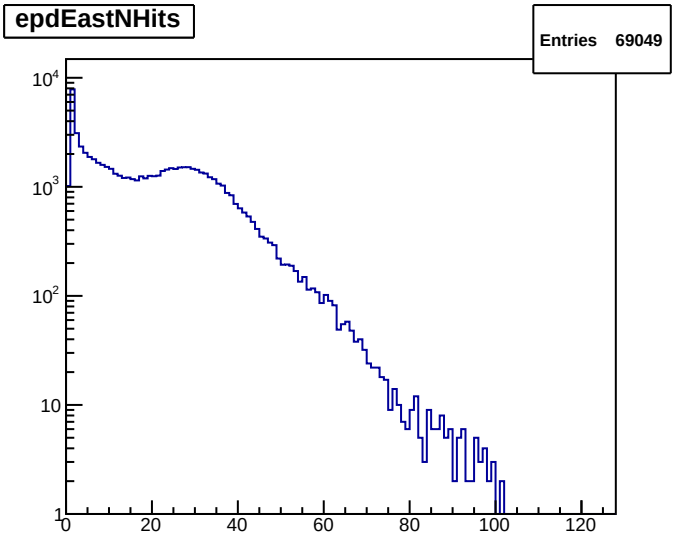

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

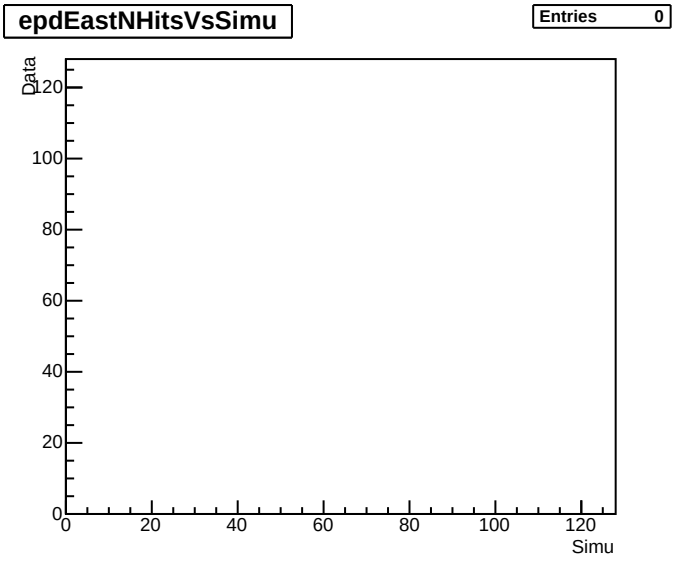

epdEastTac03
Entries 69049

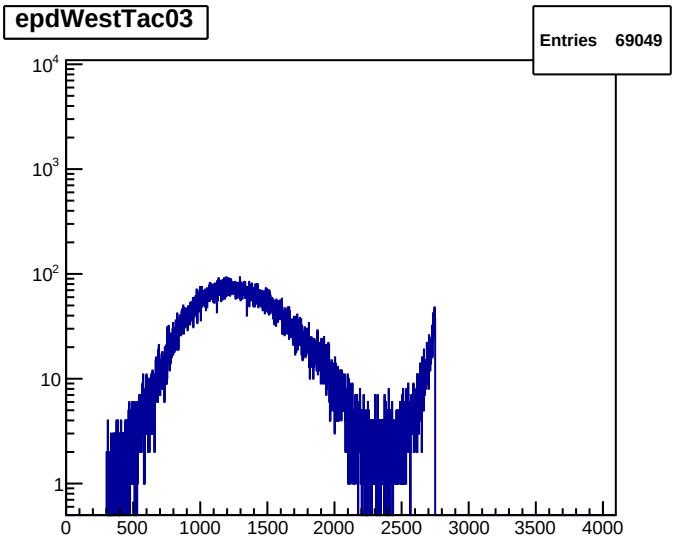

epdEastTac03VsSimu
Entries 0
Data
Simu

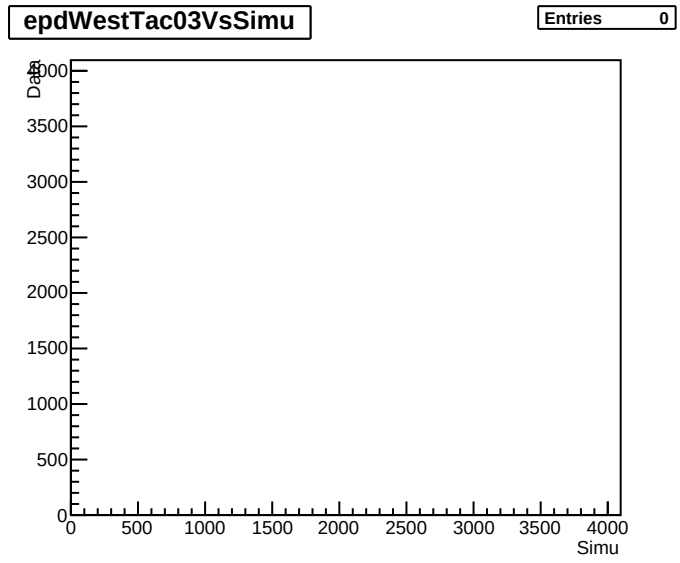

epdEastTac47
Entries 69049

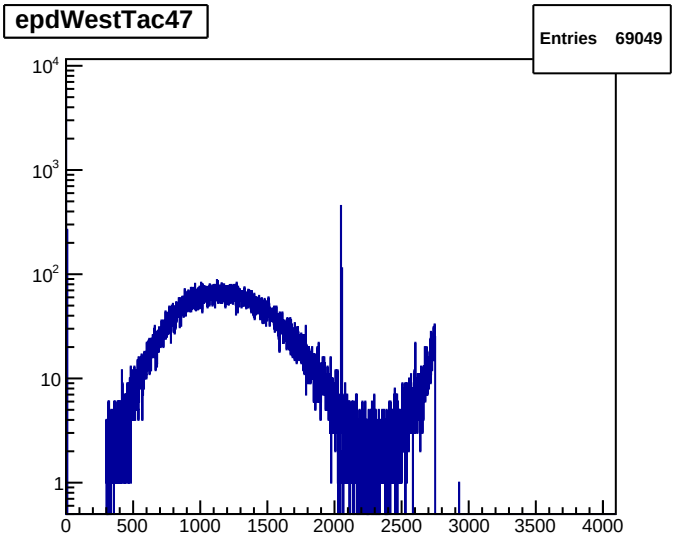

epdEastTac47VsSimu
Entries 0
Data
Simu

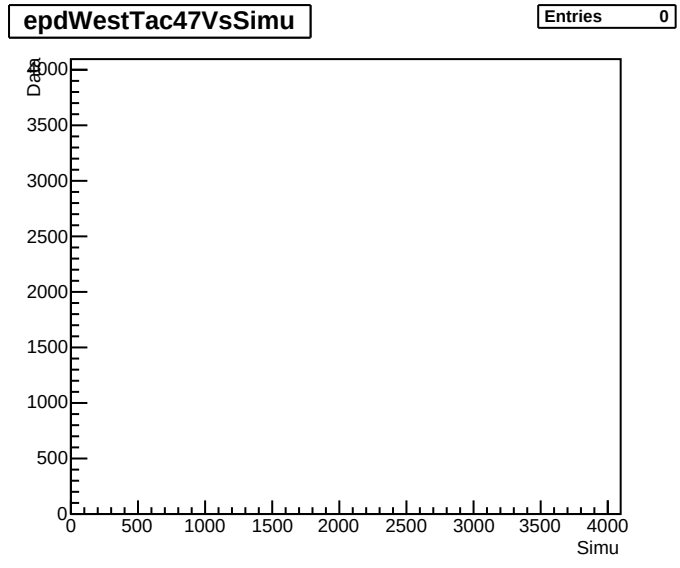

epdEastNHits
Entries 69049

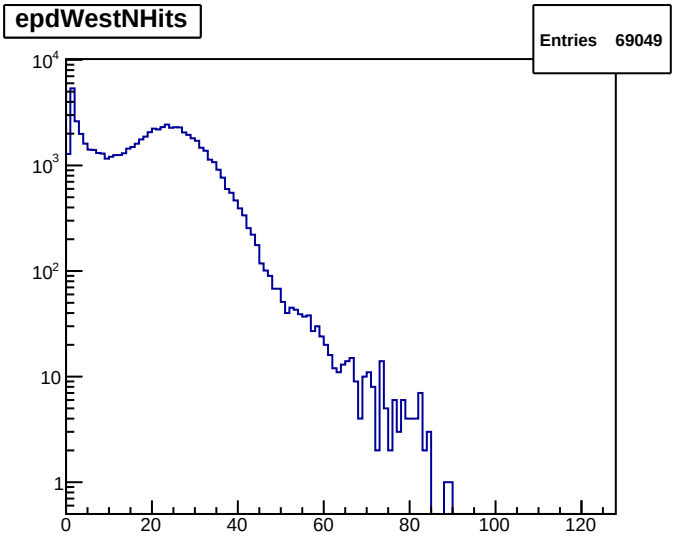

epdEastNHitsVsSimu
Entries 0
Data
Simu

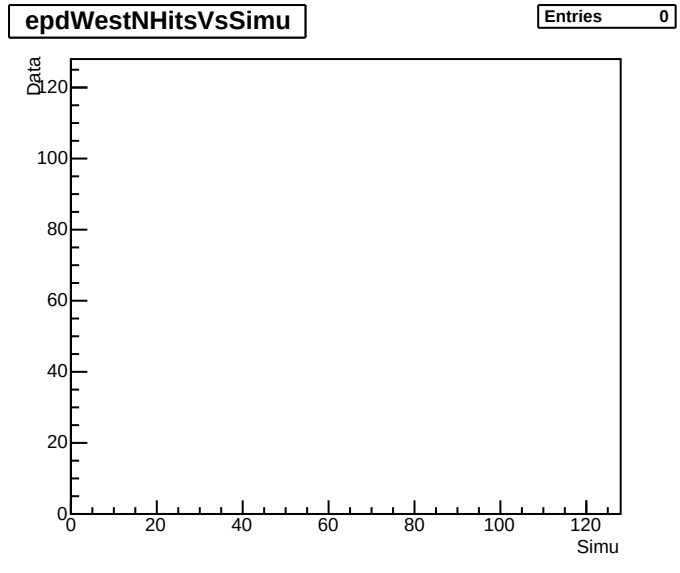

epdWestTac03
Entries 69049

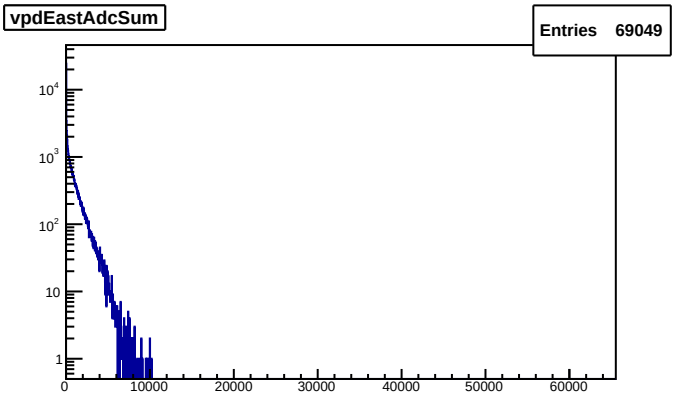

epdWestTac03VsSimu
Entries 0
Data
Simu

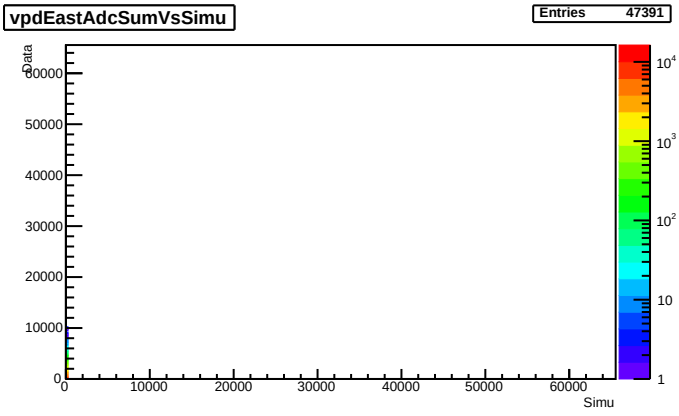

epdWestTac47
Entries 69049

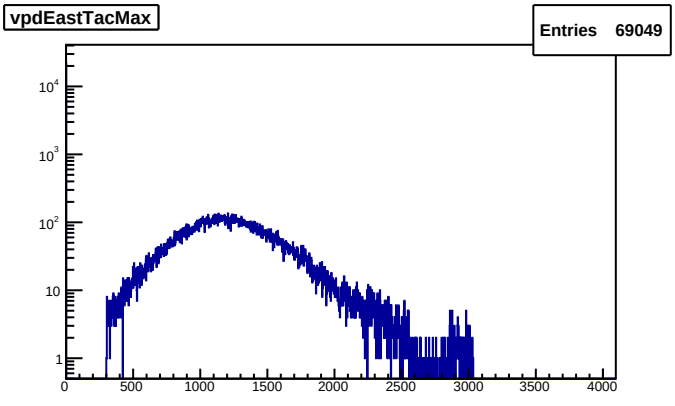

epdWestTac47VsSimu
Entries 0
Data
Simu

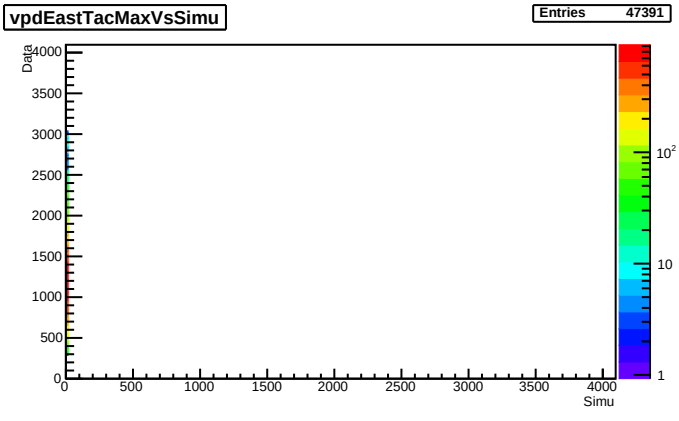

epdWestNHits
Entries 69049

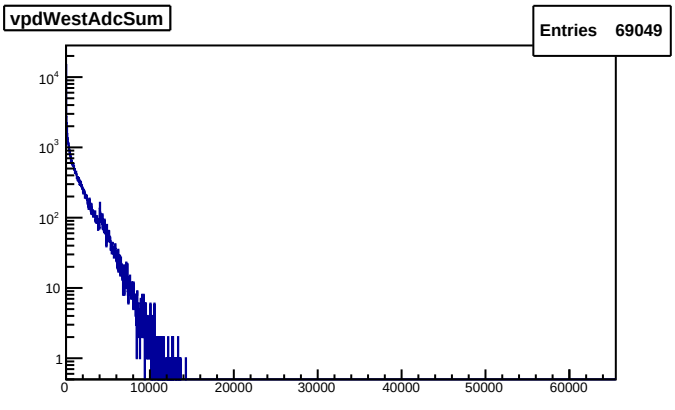

epdWestNHitsVsSimu
Entries 0
Data
Simu

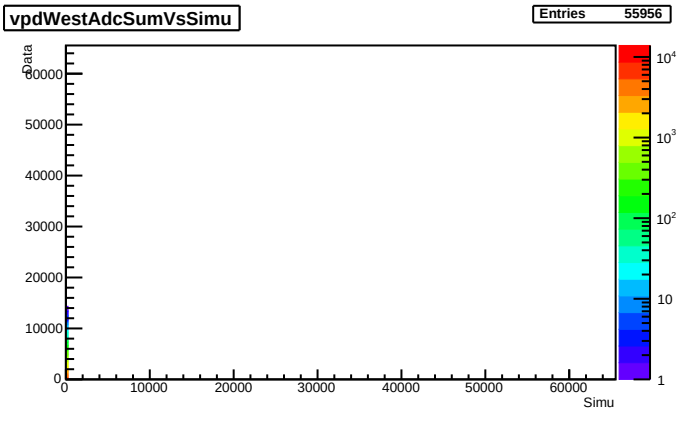

vpdEastAdcSum
Entries 69049

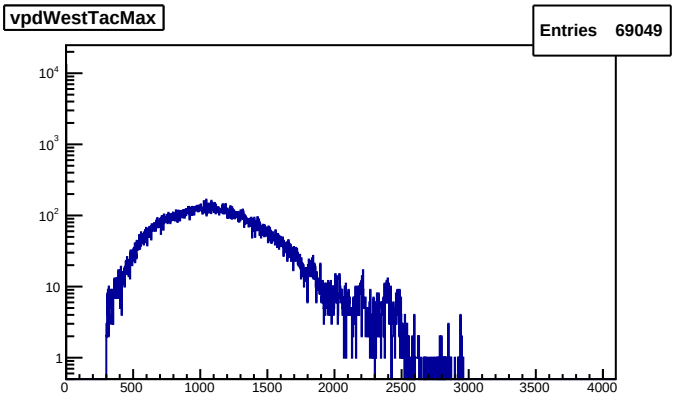

vpdEastAdcSumVsSimu
Entries 47391
Data
Simu

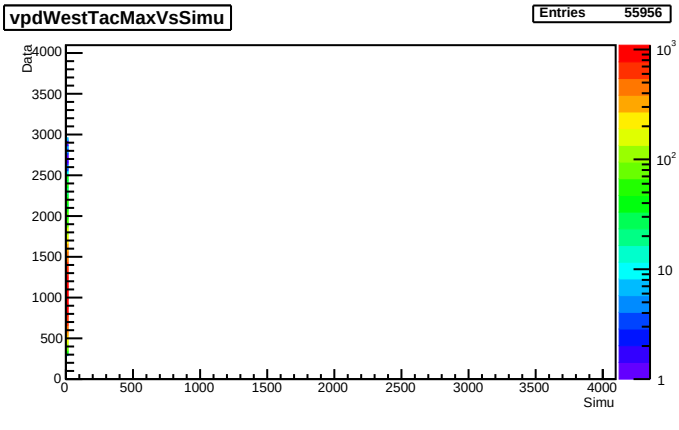

vpdEastTacMax
Entries 69049

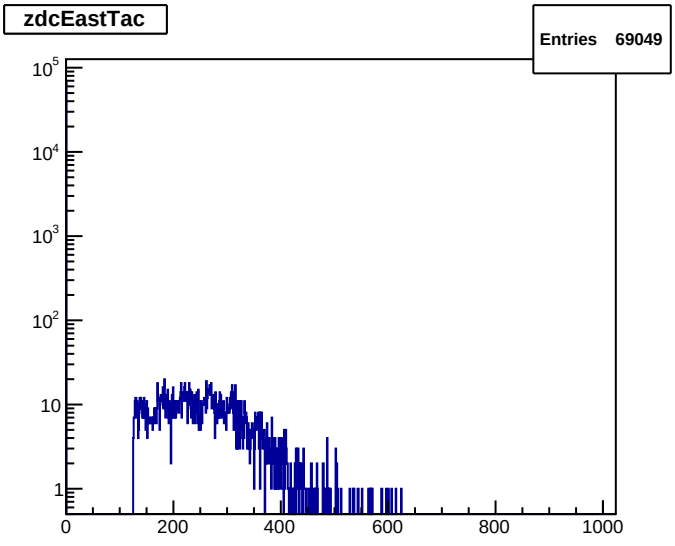

vpdEastTacMaxVsSimu
Entries 47391
Data
Simu

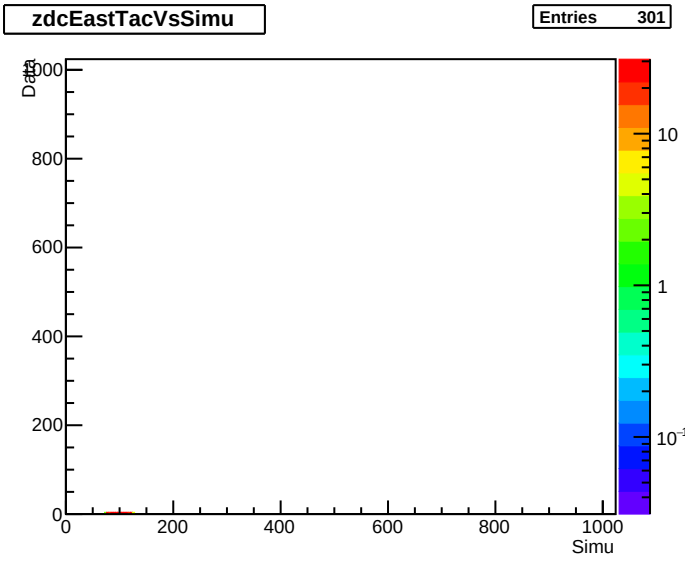

vpdWestAdcSum
Entries 69049

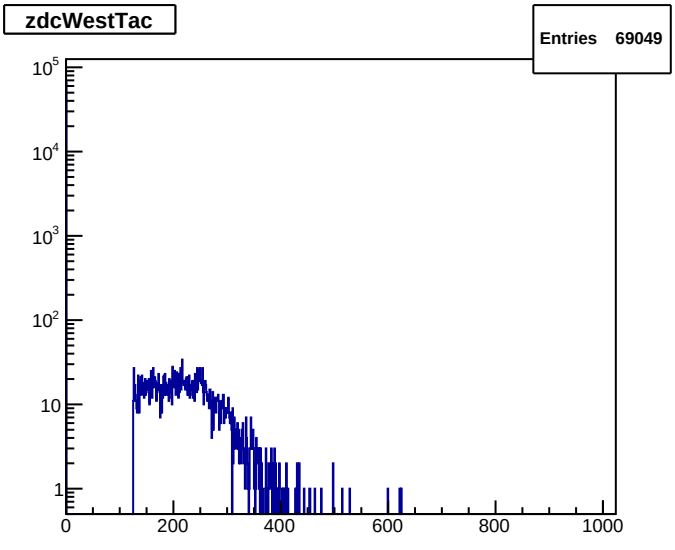

vpdWestAdcSumVsSimu
Entries 55956
Data
Simu

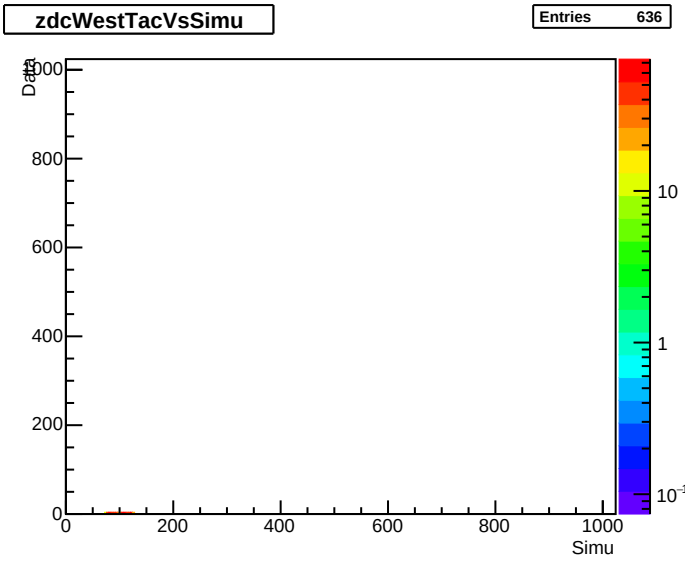

vpdWestTacMax
Entries 69049

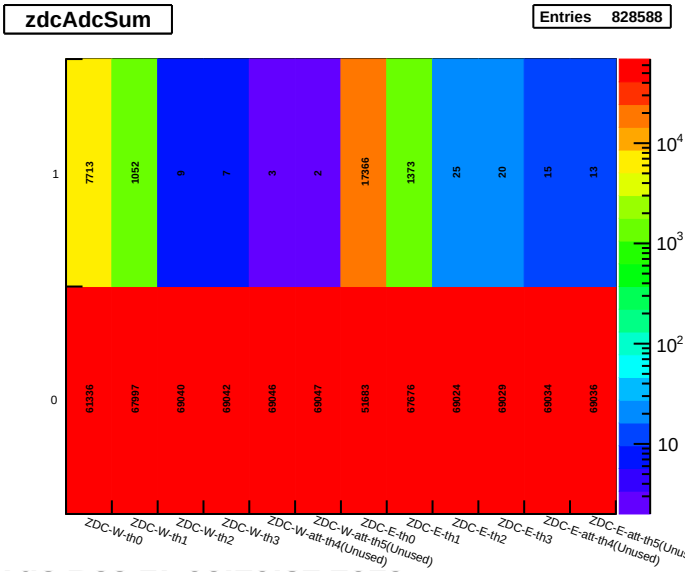

vpdWestTacMaxVsSimu
Entries 55956
Data
Simu

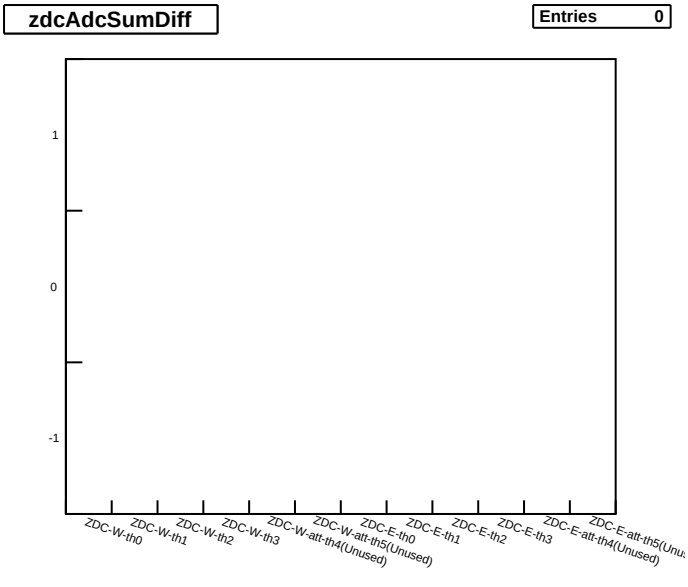

zdcEastTac
Entries 69049

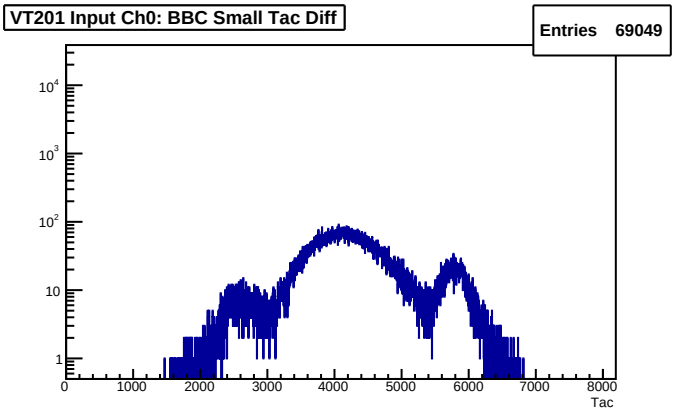

zdcEastTacVsSimu
Entries 301
Data
Simu

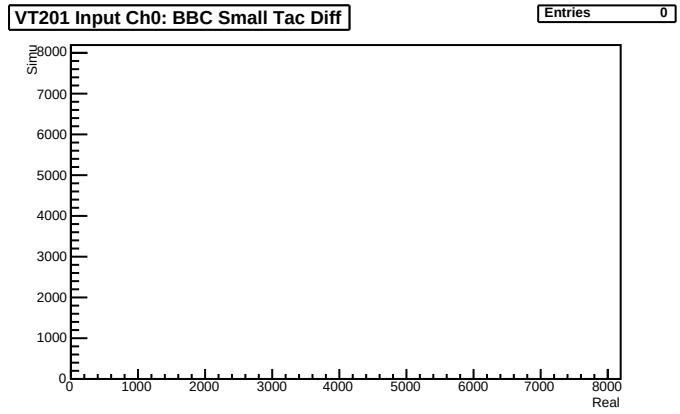

zdcWestTac
Entries 69049

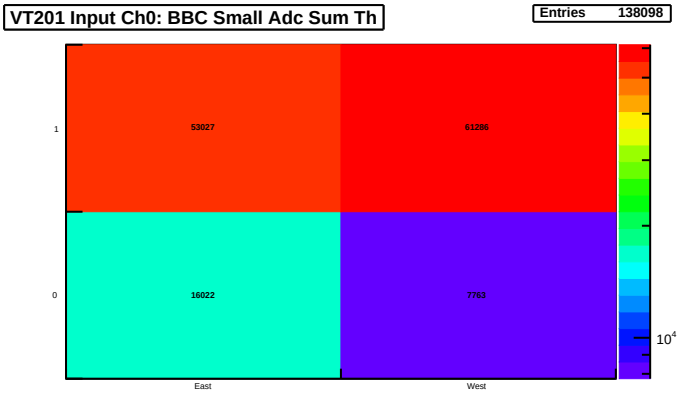

zdcWestTacVsSimu
Entries 636
Data
Simu

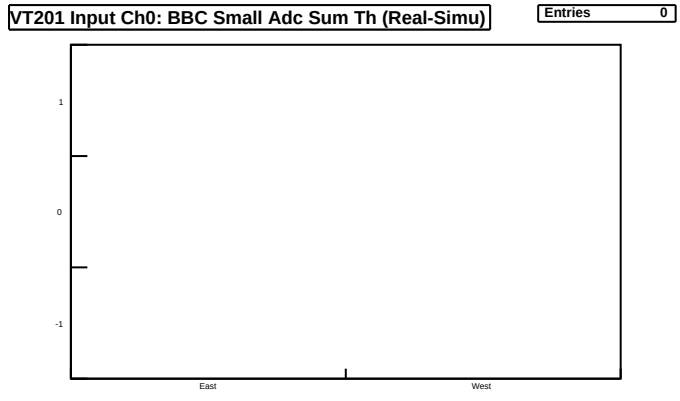

zdcAdcSum
Entries 828588
7713
1052
9
7
3
2
17366
1373
25
20
15
13
61336
67997
69040
69042
69046
69047
51683
67676
69024
69029
69034
69036
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

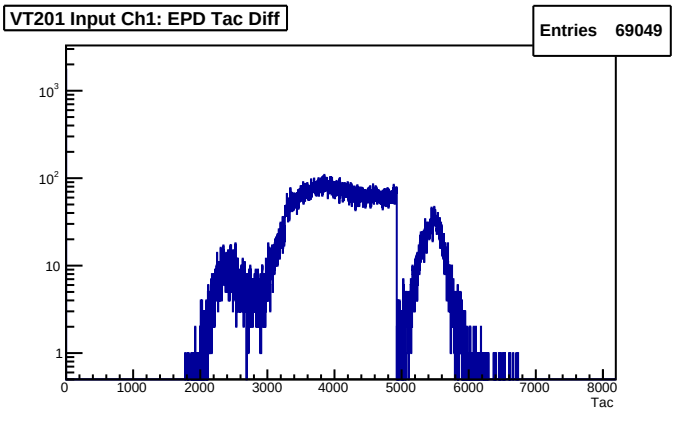

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

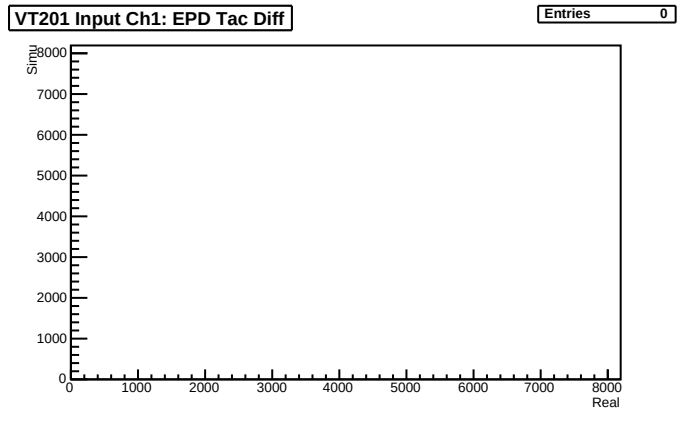

VT201 Input Ch0: BBC Small Tac Diff
Entries 69049
Tac

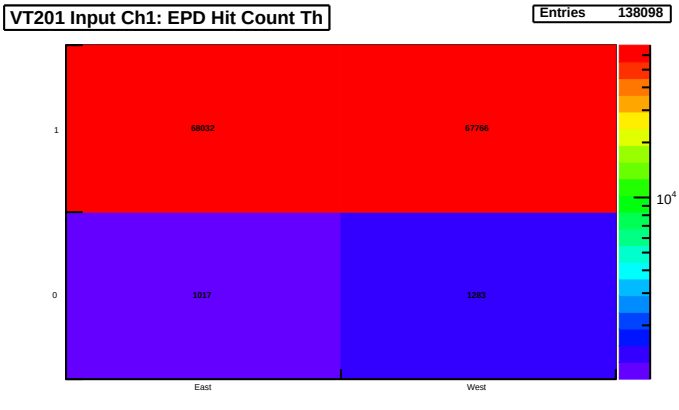

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

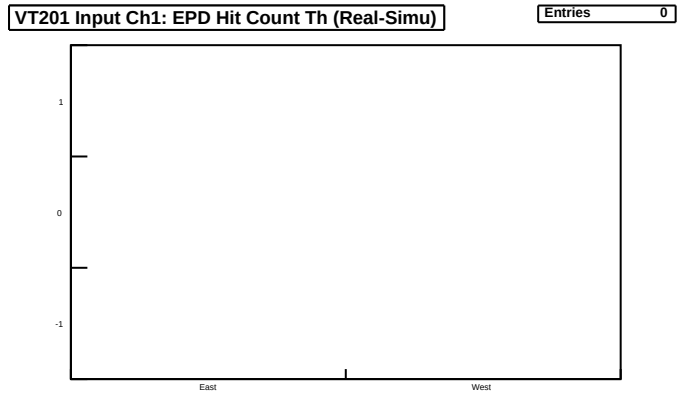

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 138098
53027
61286
16022
7763
East
West

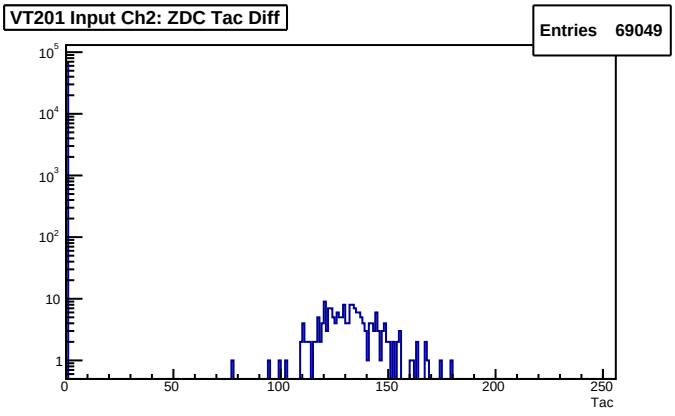

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

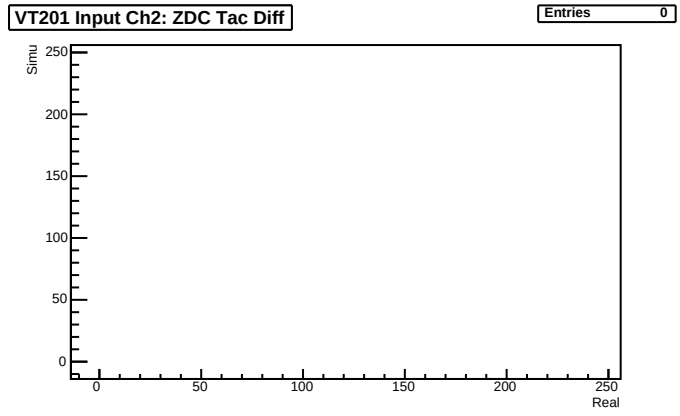

VT201 Input Ch1: EPD Tac Diff
Entries 69049
Tac

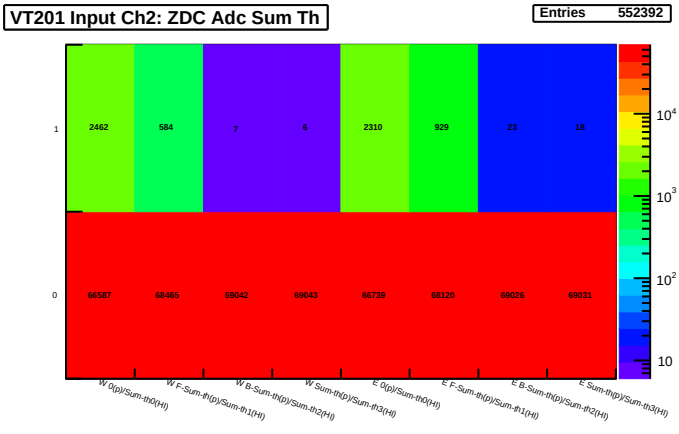

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

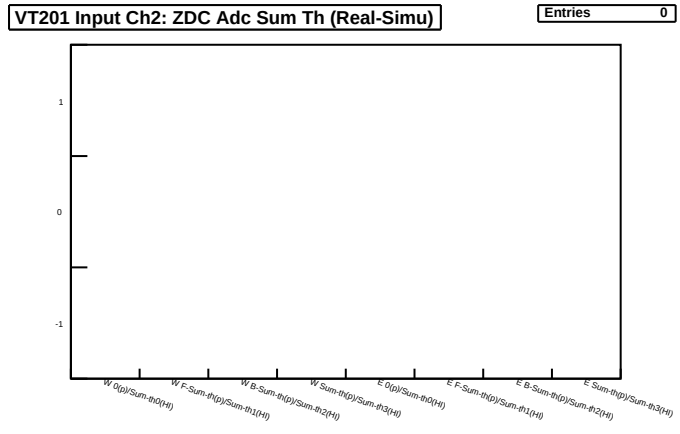

VT201 Input Ch1: EPD Hit Count Th
Entries 138098
68032
67766
1017
1283
East
West

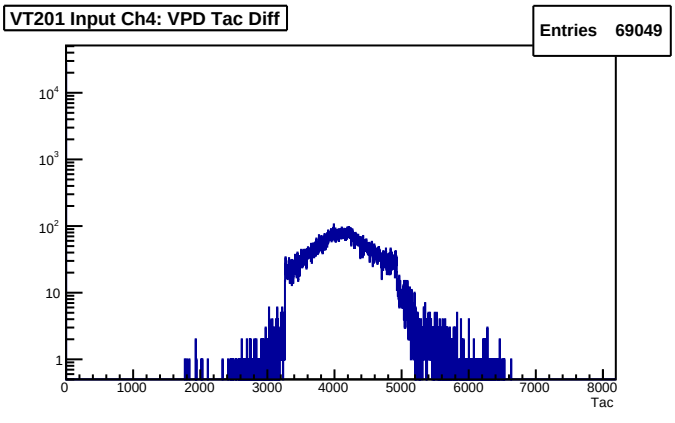

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

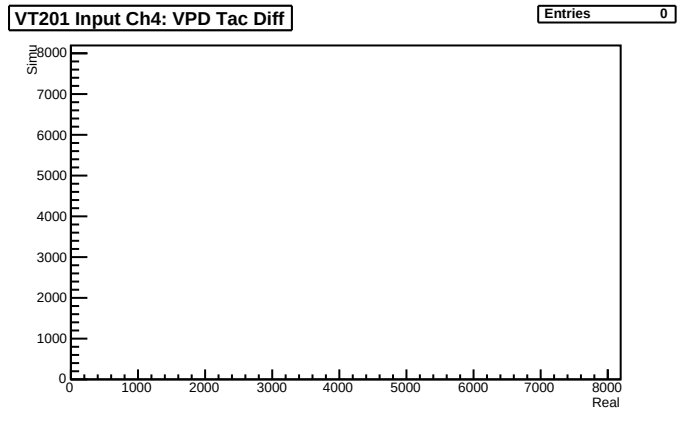

VT201 Input Ch2: ZDC Tac Diff
Entries 69049
Tac

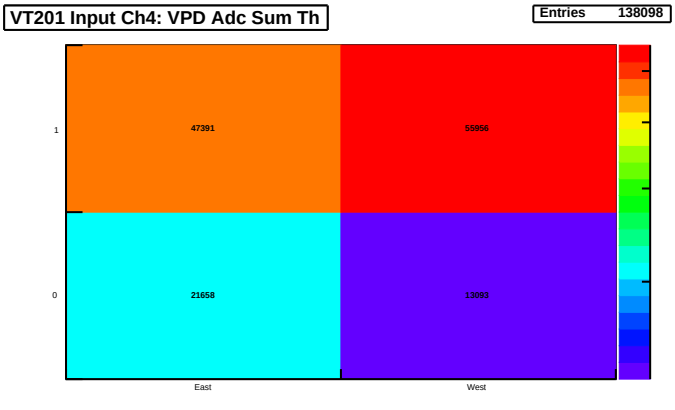

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

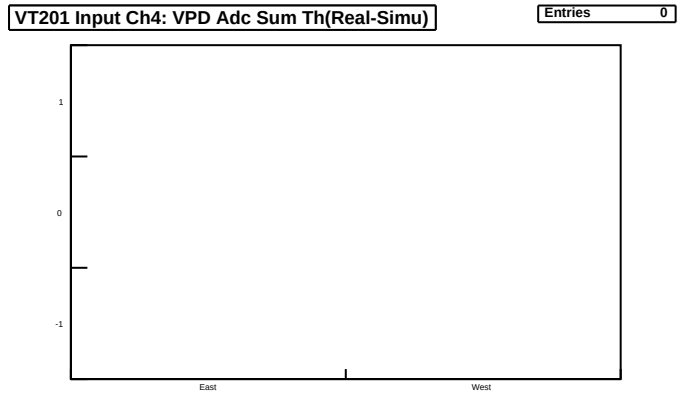

VT201 Input Ch2: ZDC Adc Sum Th
Entries 552392
2462
584
7
6
2310
929
23
18
66587
68465
69042
69043
66739
68120
69026
69031
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

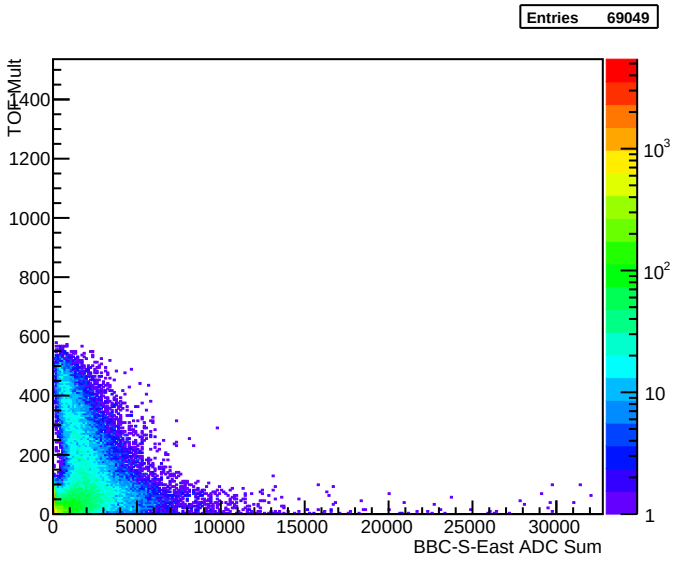

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

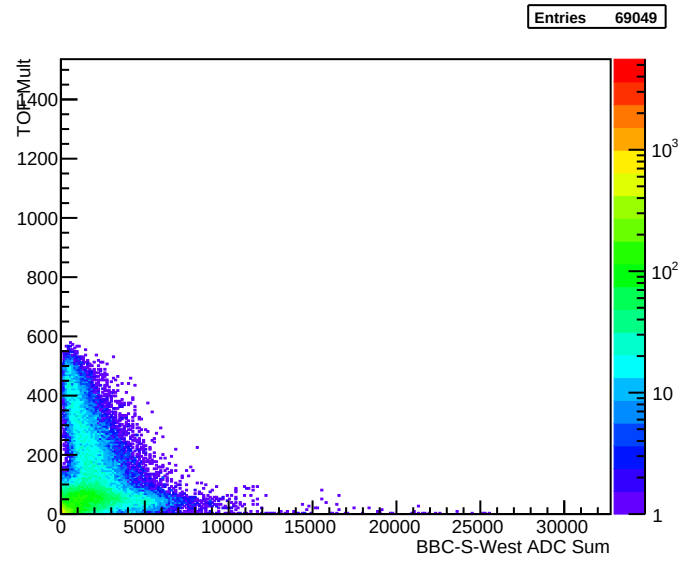

VT201 Input Ch4: VPD Tac Diff
Entries 69049
Tac

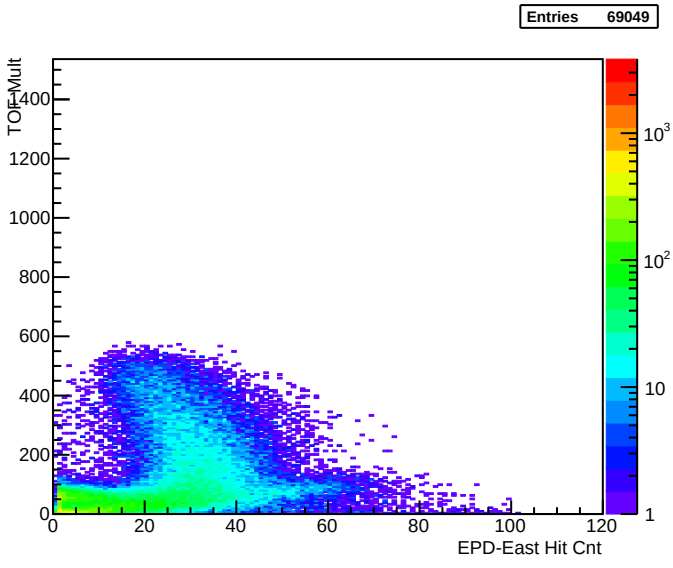

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

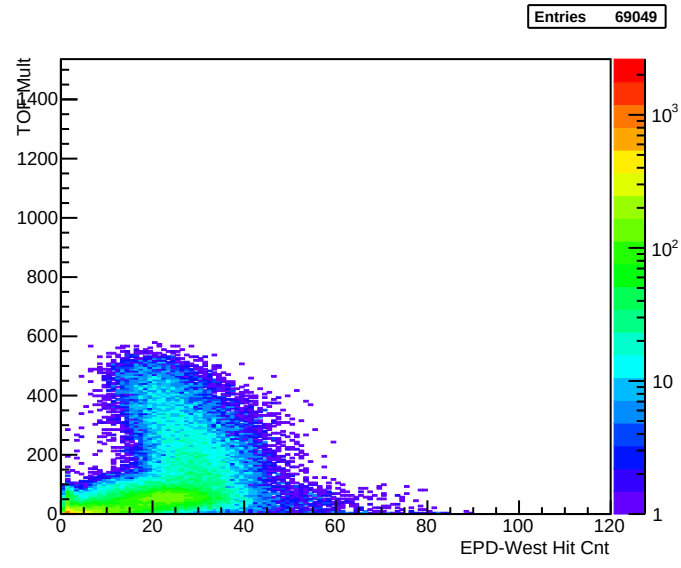

VT201 Input Ch4: VPD Adc Sum Th
Entries 138098
47391
55956
21658
13093
East
West

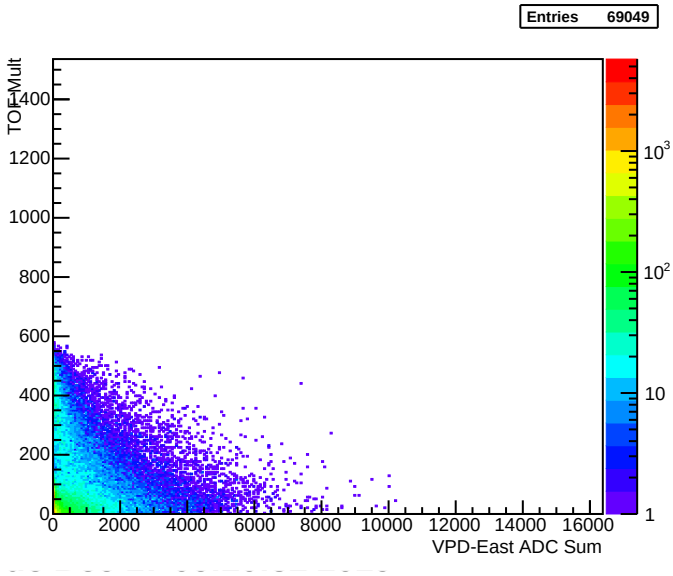

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

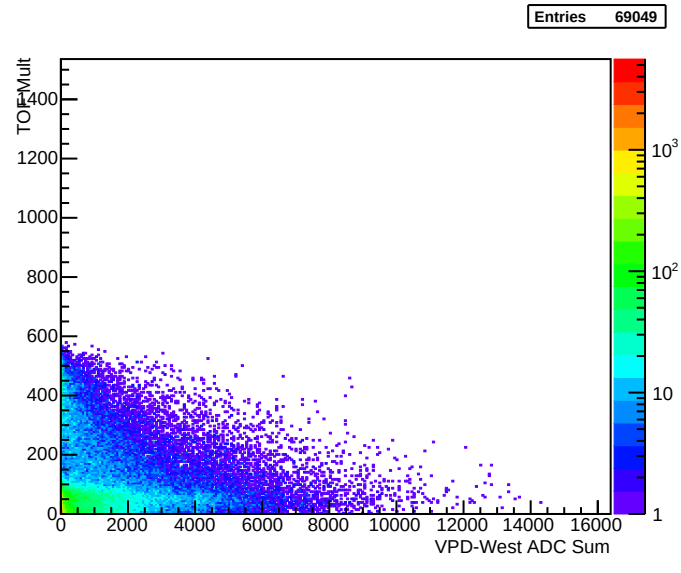

Entries 69049
TOF-Mult
BBC-S-East ADC Sum

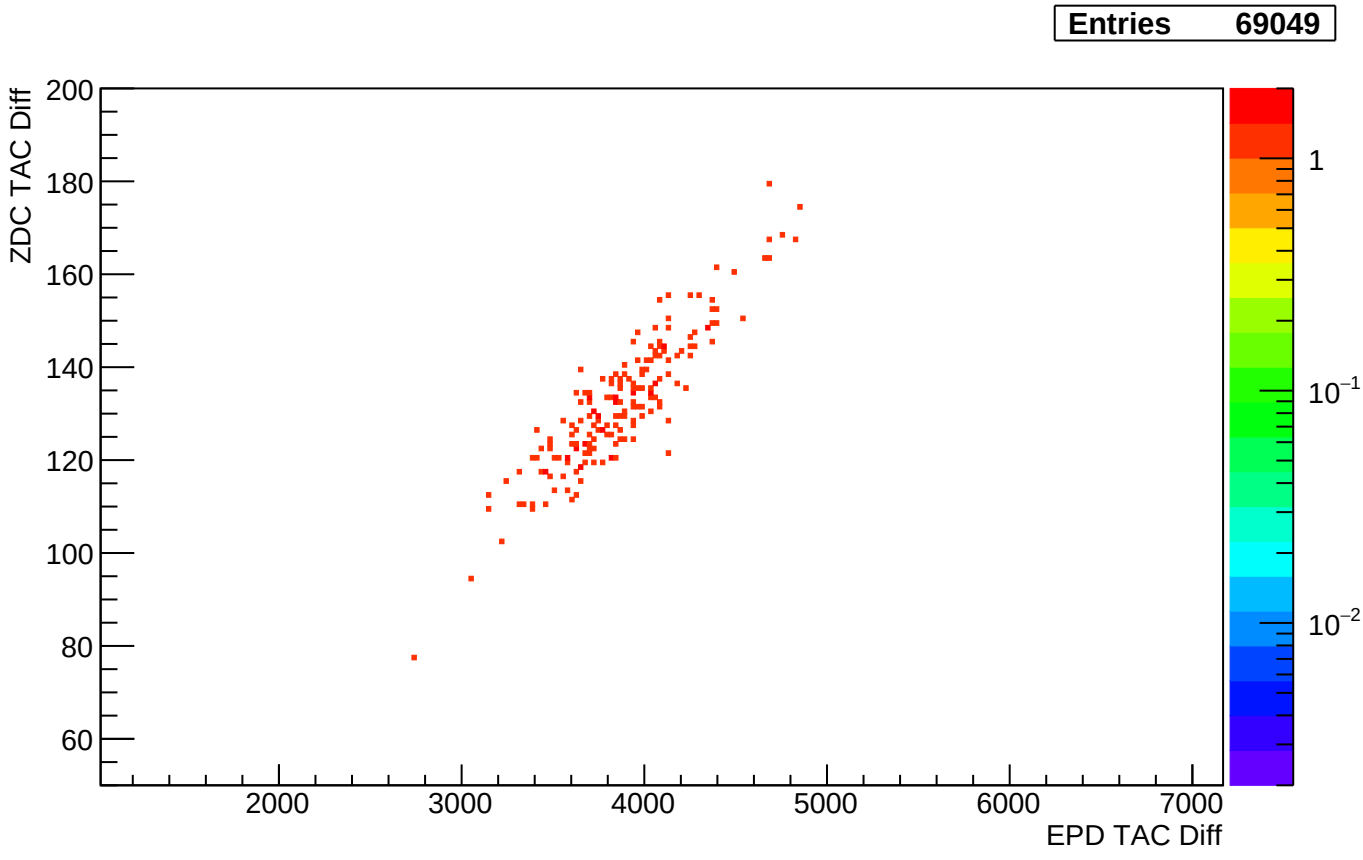

Entries 69049
TOF-Mult
BBC-S-West ADC Sum

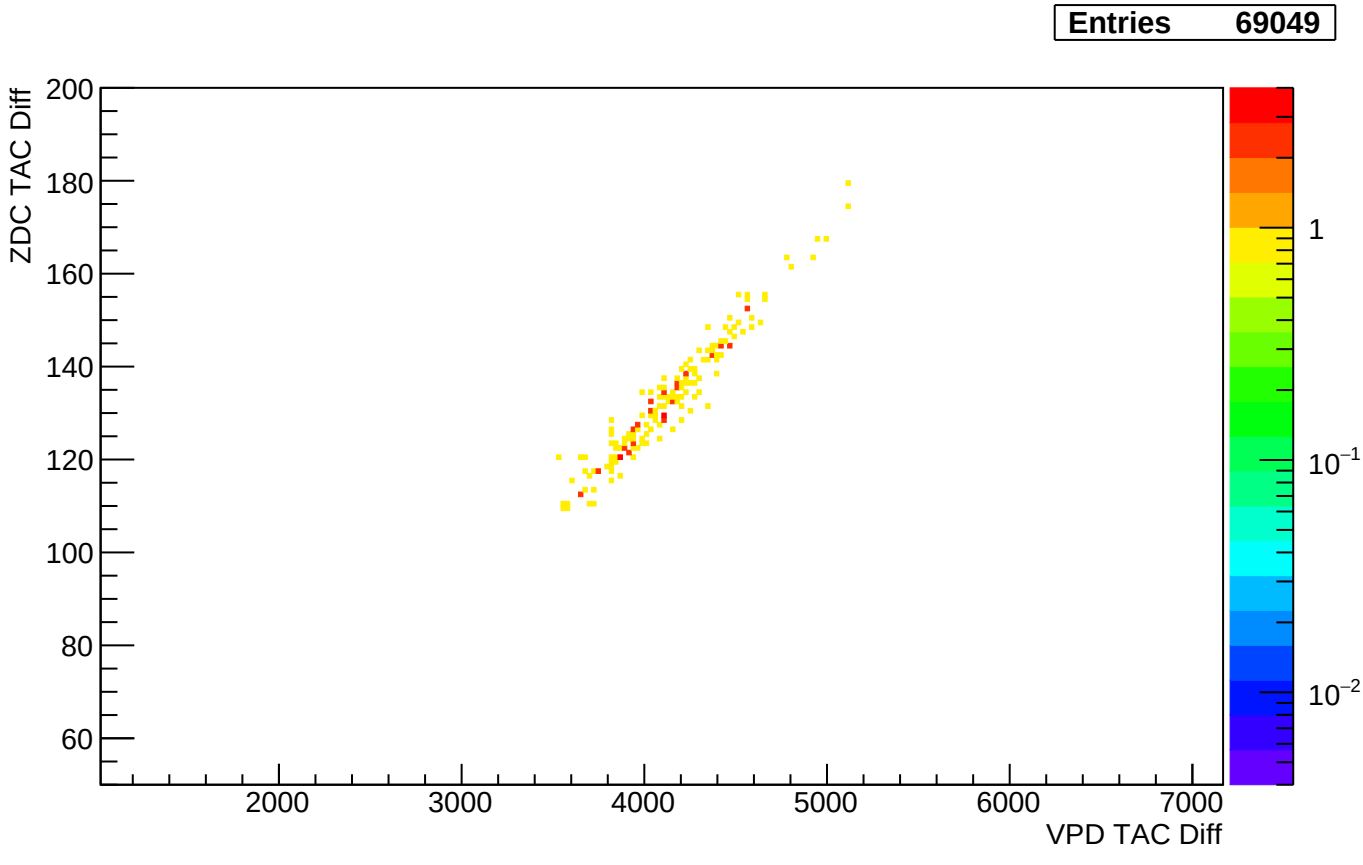

Entries 69049
TOF-Mult
EPD-East Hit Cnt

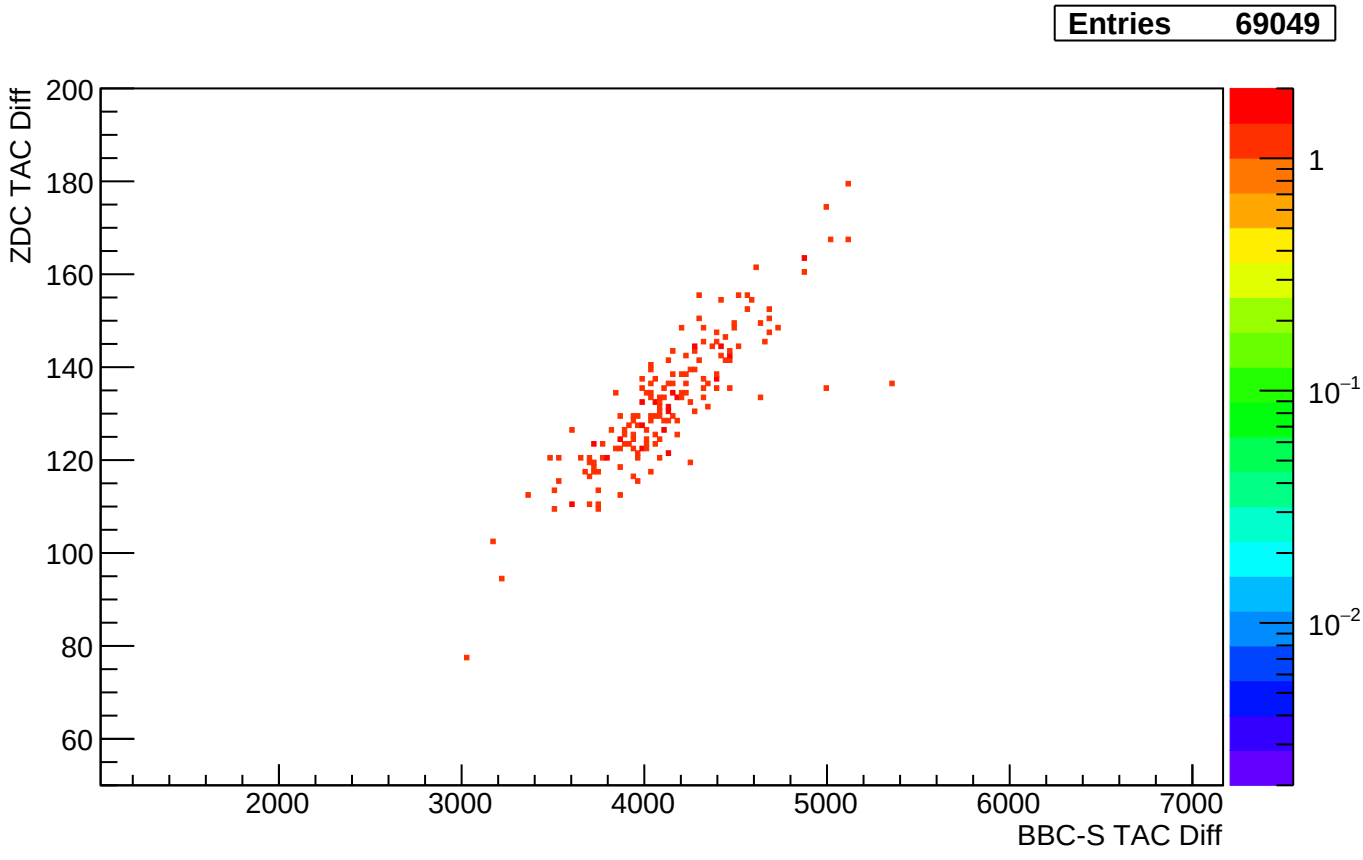

Entries 69049
TOF-Mult
EPD-West Hit Cnt

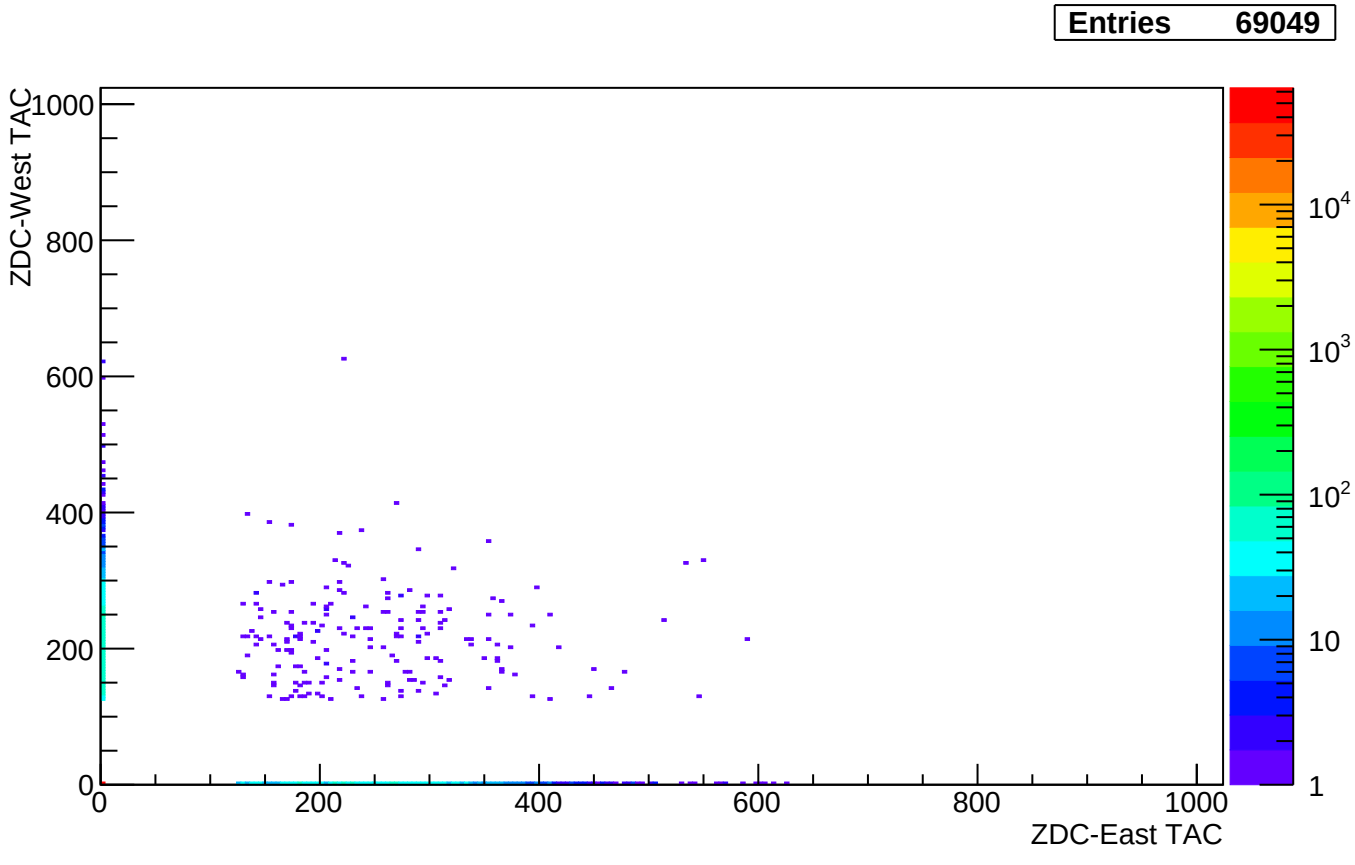

Entries 69049
TOF-Mult
VPD-East ADC Sum

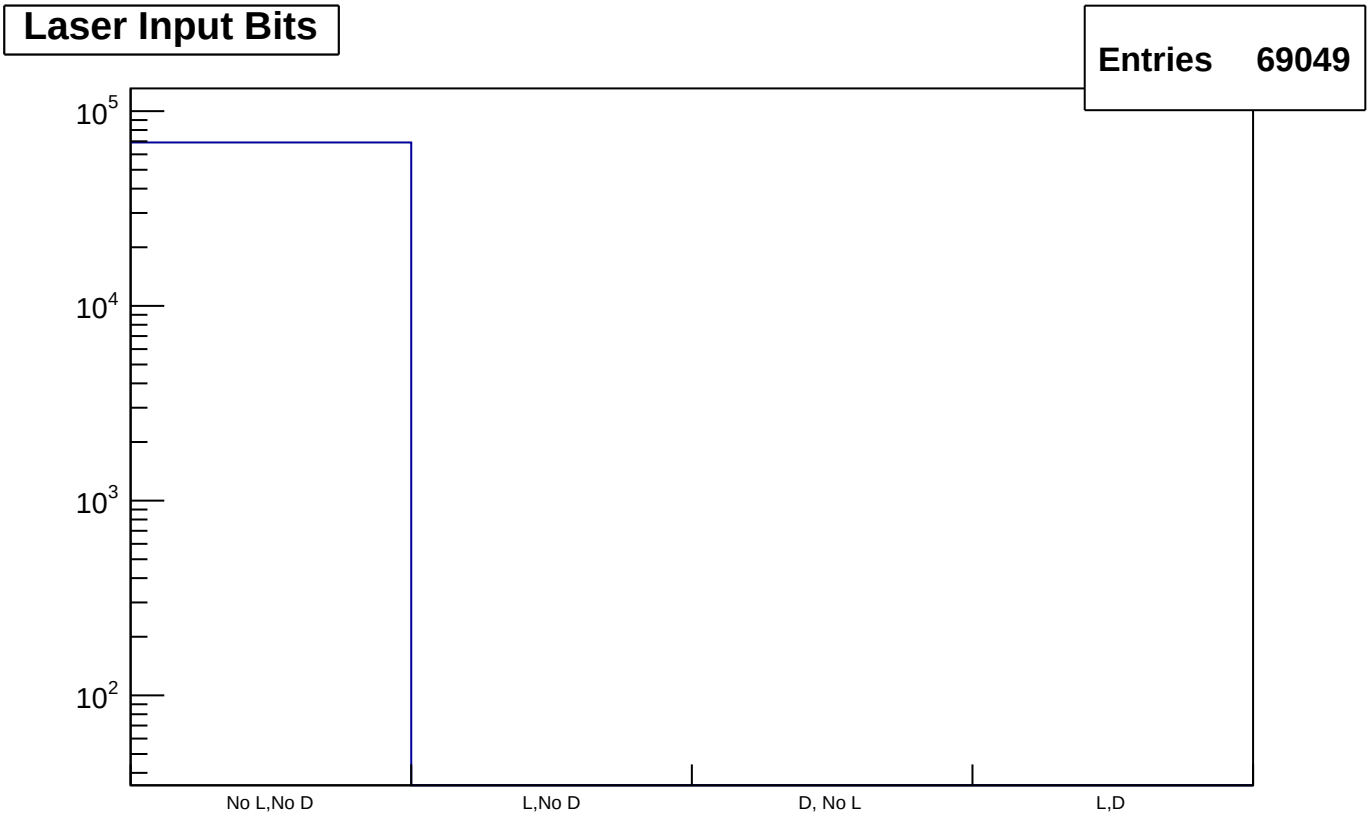

Entries 69049
TOF-Mult
VPD-West ADC Sum

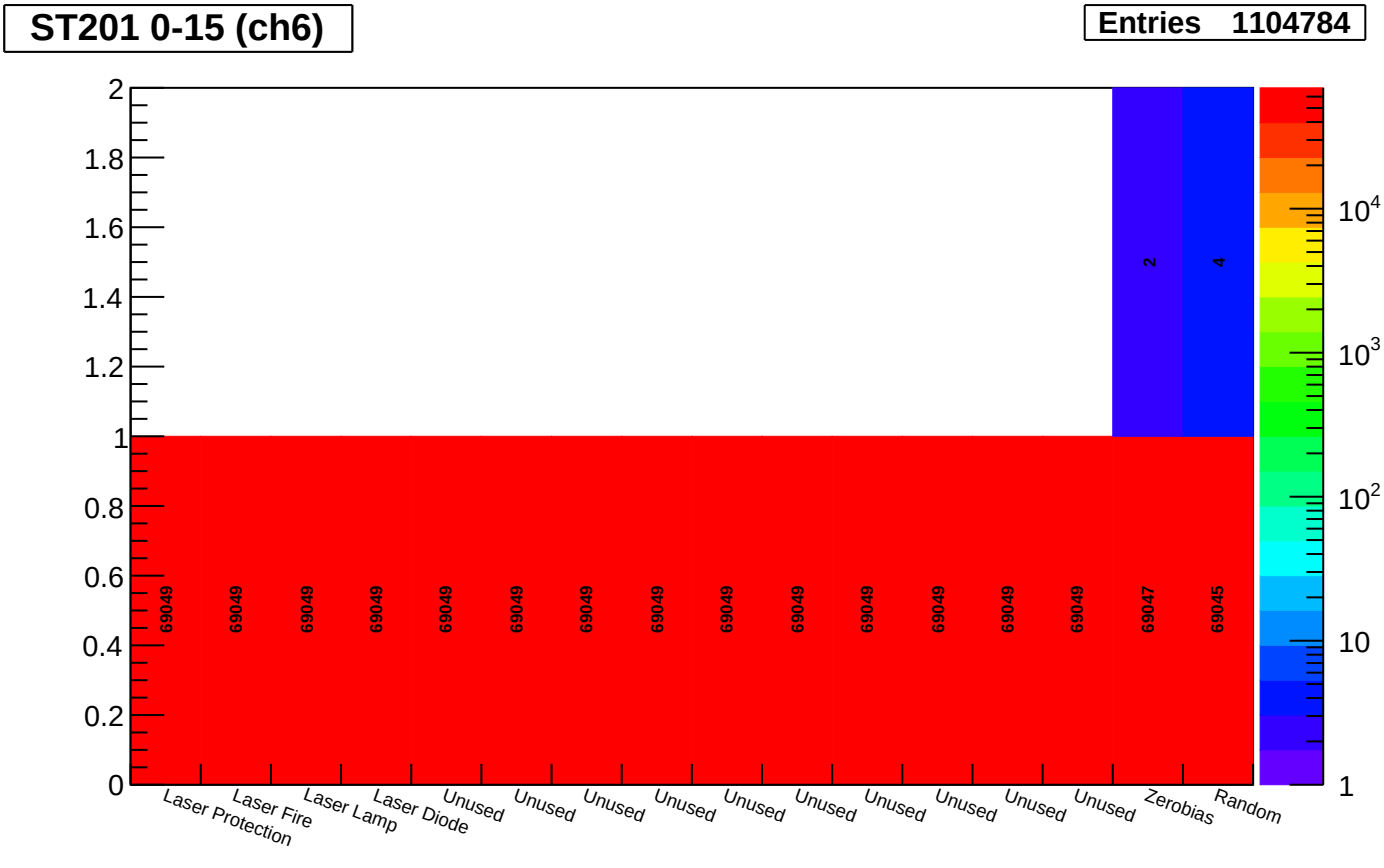

Entries 69049
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

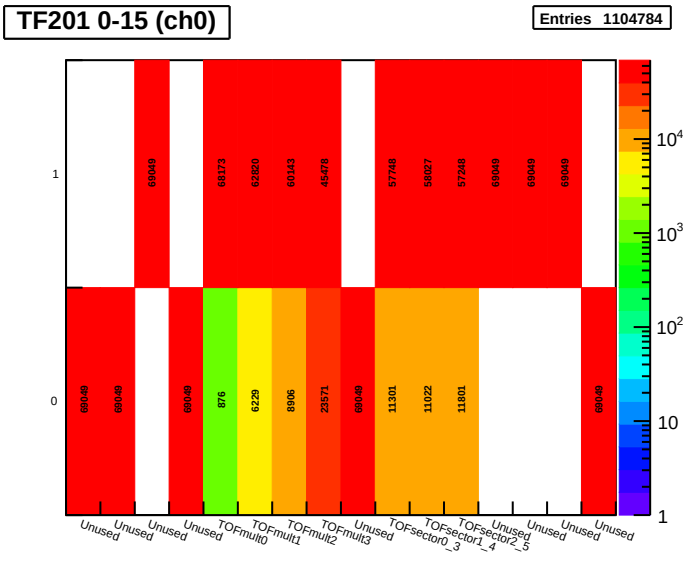

Entries 69049
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

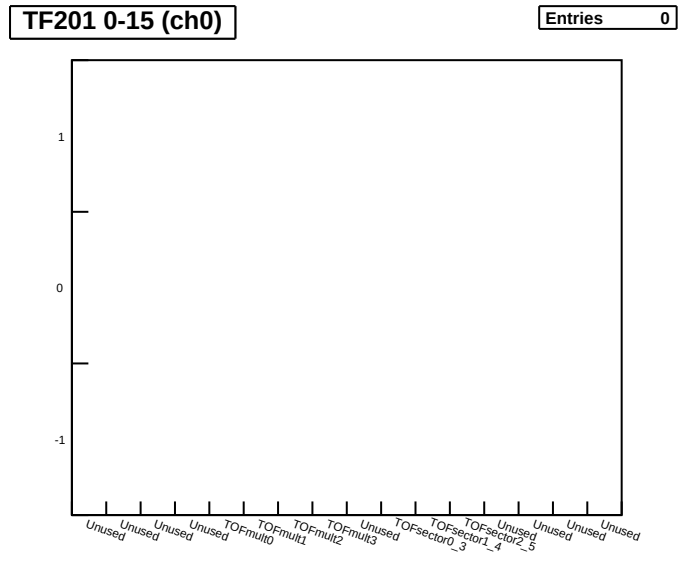

Entries 69049
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

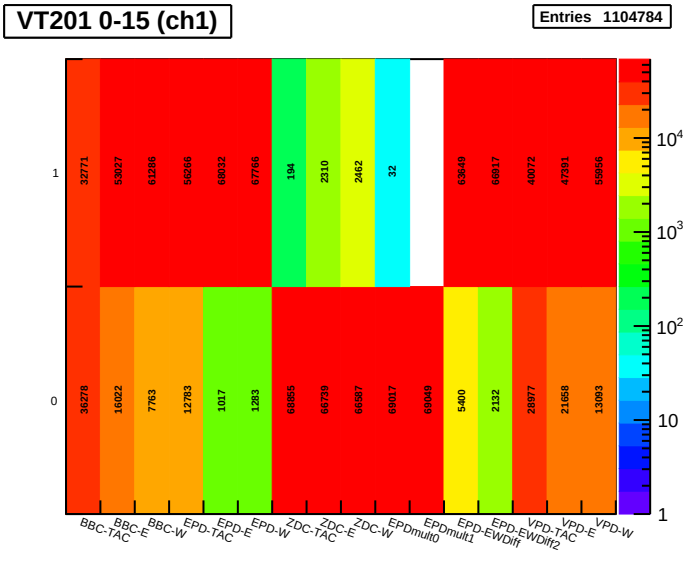

Entries 69049
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

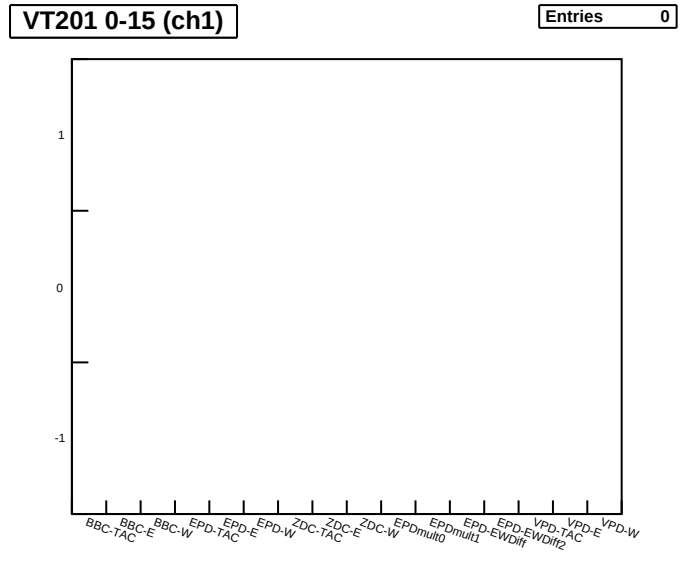

Laser Input Bits
Entries 69049
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

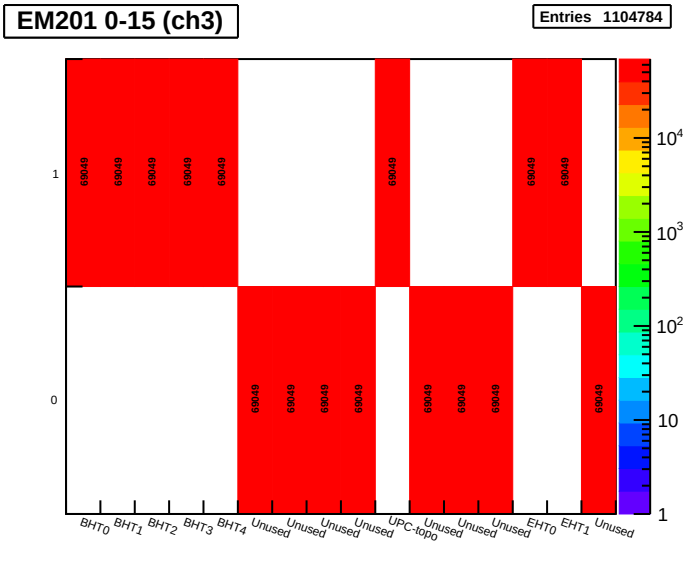

ST201 0-15 (ch6)
Entries 1104784
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69047
69045
2
4
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random

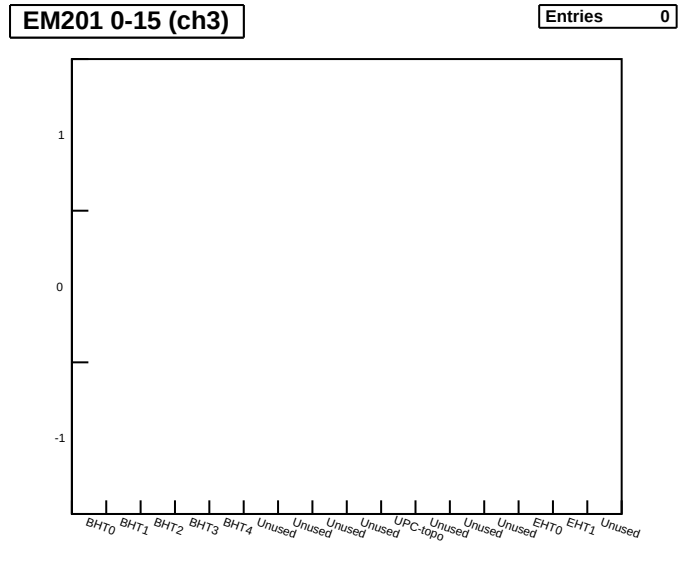

TF201 0-15 (ch0)
Entries 1104784
1
0
69049
68173
62820
60143
45478
57748
58027
57248
69049
69049
69049
69049
69049
876
6229
8906
23571
69049
11301
11022
11801
69049
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
10^4
10^3
10^2
10
1


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 1104784
1
0
32771
53027
61286
55266
68032
67766
194
2310
2462
32
63649
66917
40072
47391
59956
36278
16022
7763
12783
1017
1283
68855
66739
66587
69017
69049
5400
2132
28977
21658
13093
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 1104784
1
0
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
69049
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