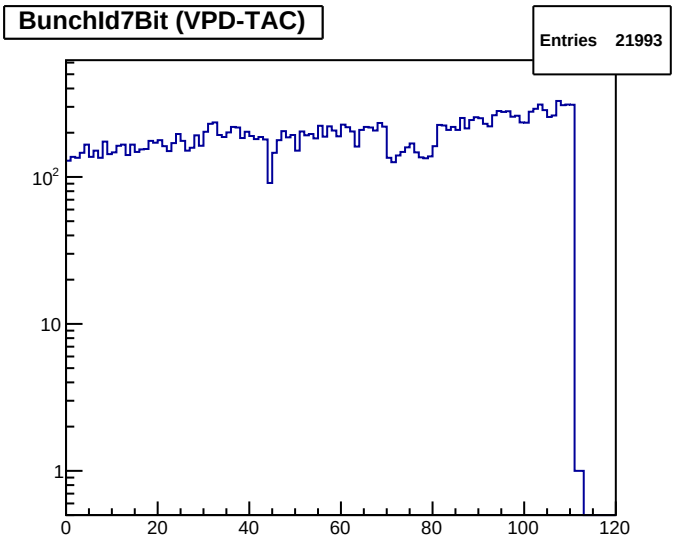
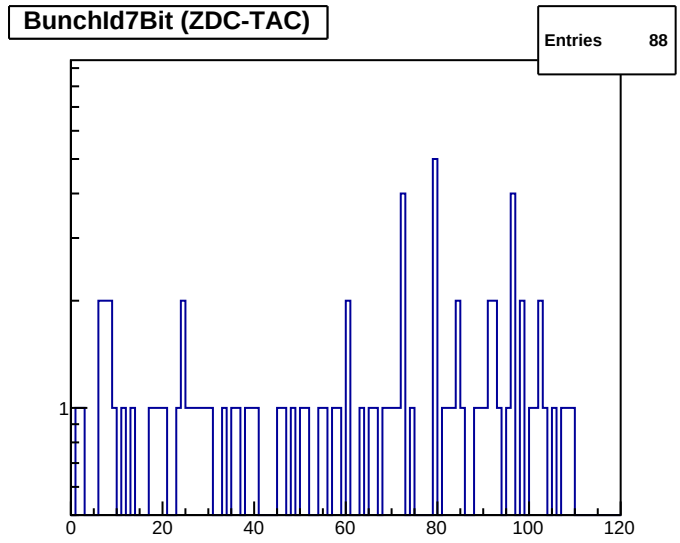
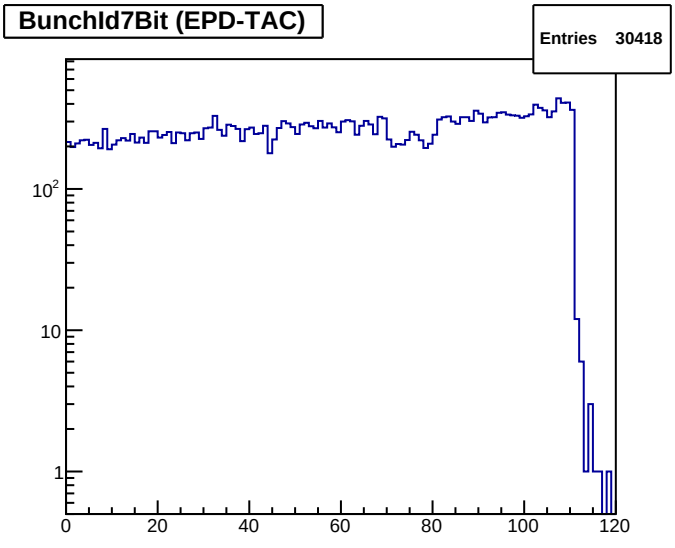
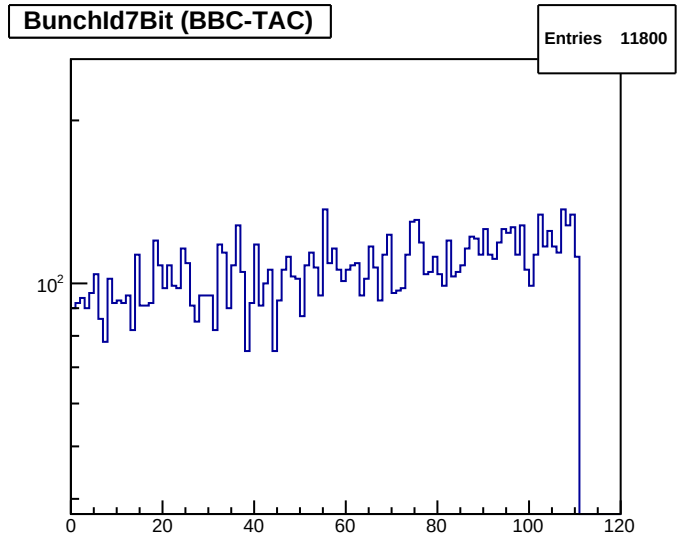
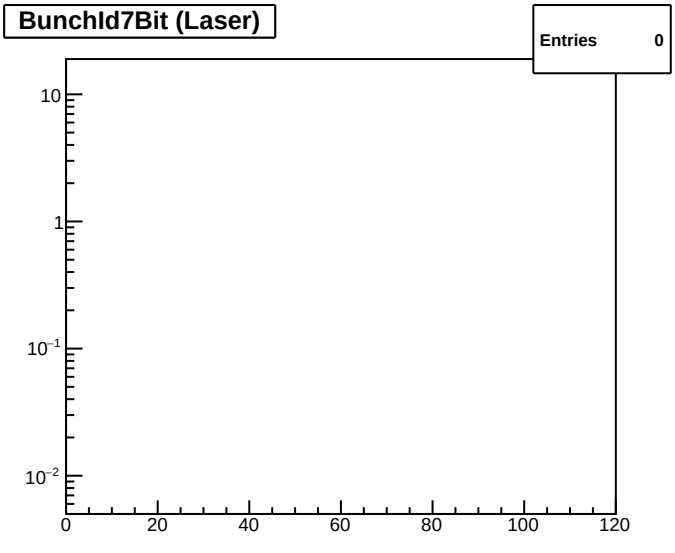
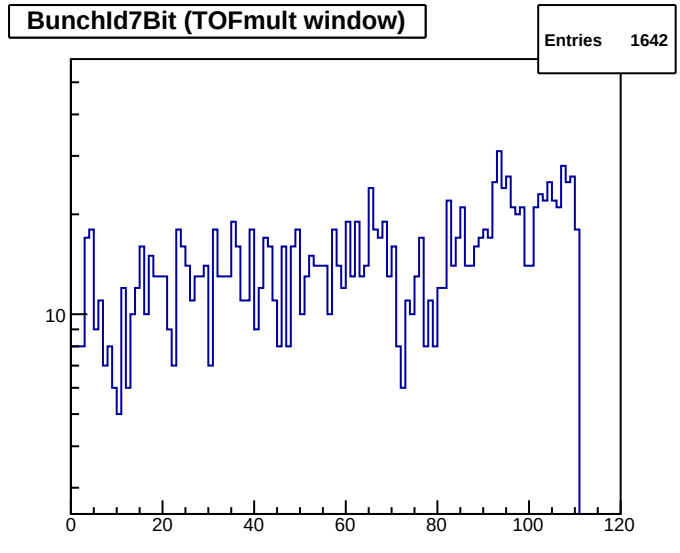

BunchId7Bit (VPD-TAC)
Entries 21993
10^2
10
1
0
20
40
60
80
100
120

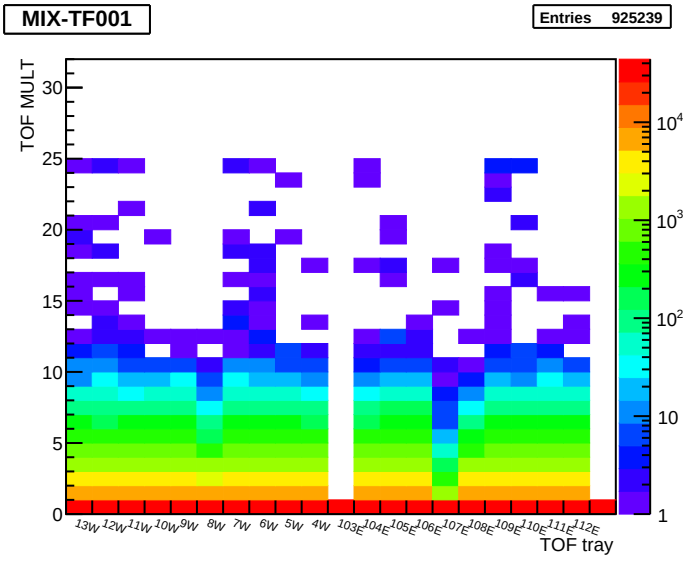

BunchId7Bit (ZDC-TAC)
Entries 88
1
0
20
40
60
80
100
120

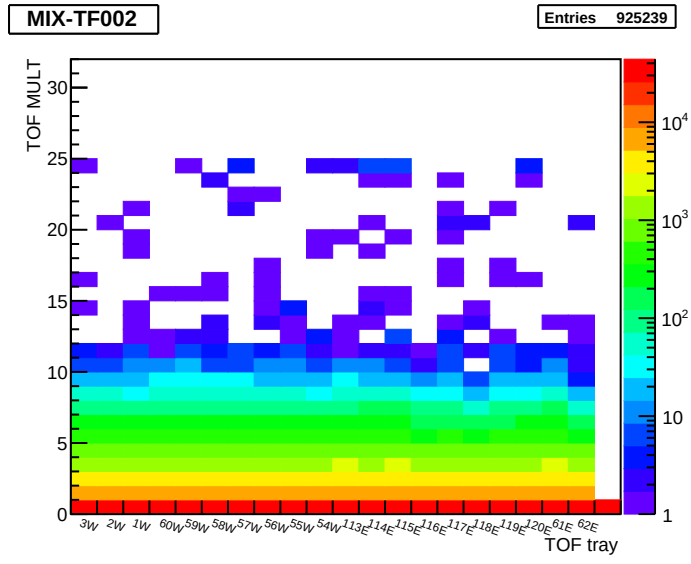

BunchId7Bit (EPD-TAC)
Entries 30418
10^2
10
1
0
20
40
60
80
100
120

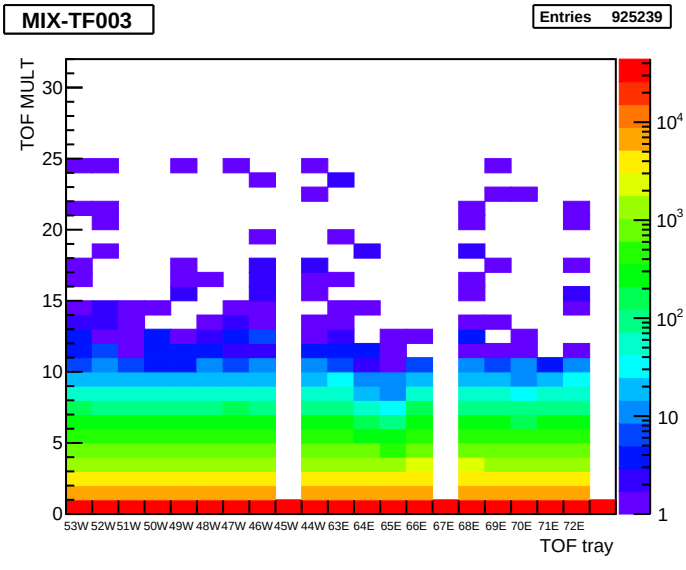

BunchId7Bit (BBC-TAC)
Entries 11800
10^2
0
20
40
60
80
100
120

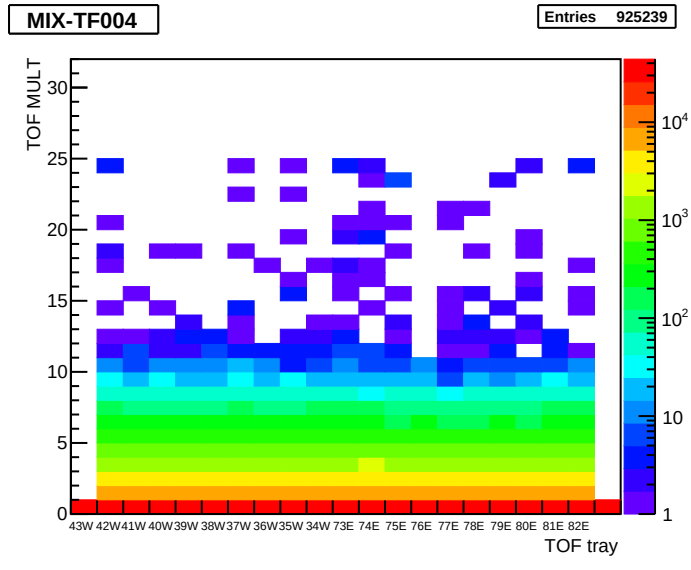

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

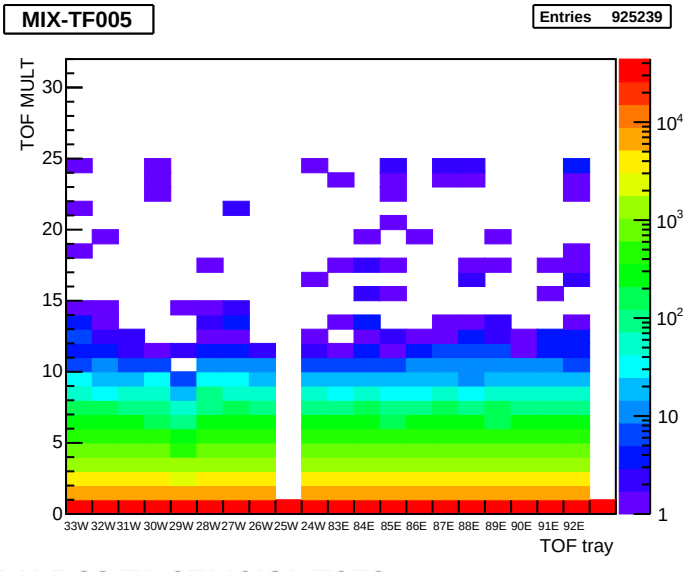

BunchId7Bit (TOFmult window)
Entries 1642
10
0
20
40
60
80
100
120

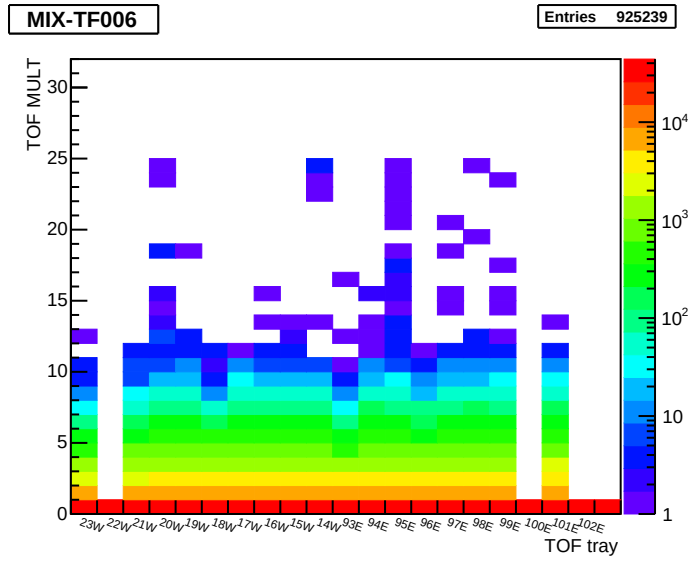

MIX-TF001
Entries 925239
TOF MULT
TOF tray

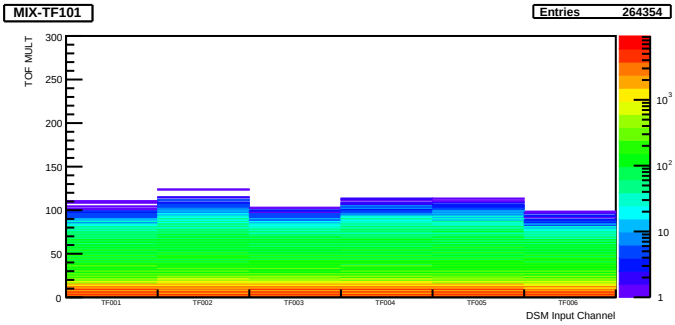

MIX-TF002
Entries 925239
TOF MULT
TOF tray

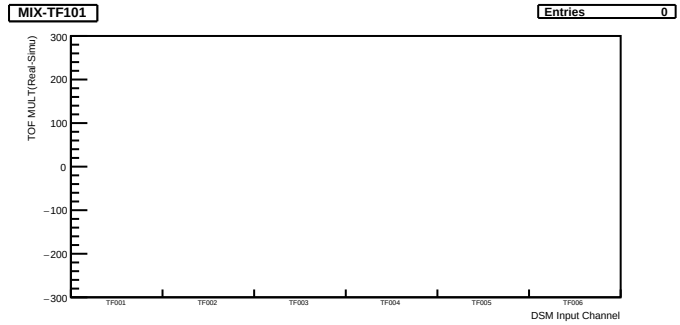

MIX-TF003
Entries 925239
TOF MULT
TOF tray

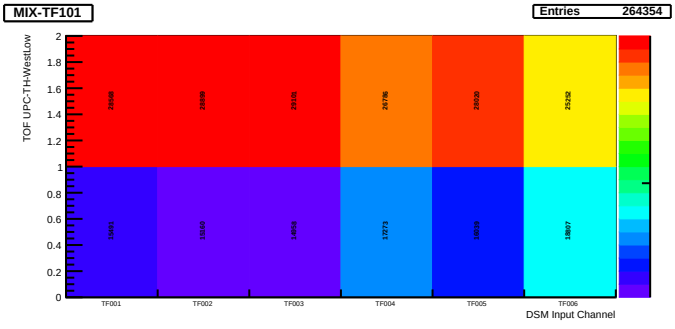

MIX-TF004
Entries 925239
TOF MULT
TOF tray

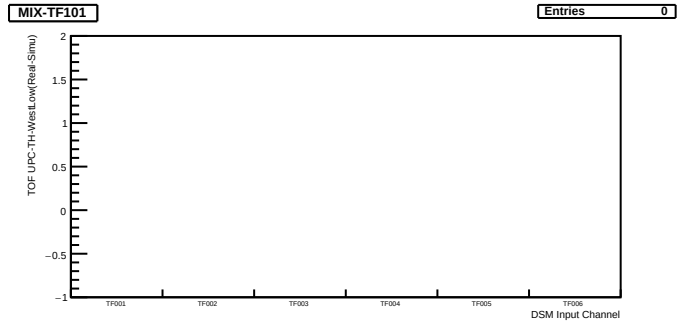

MIX-TF005
Entries 925239
TOF MULT
TOF tray

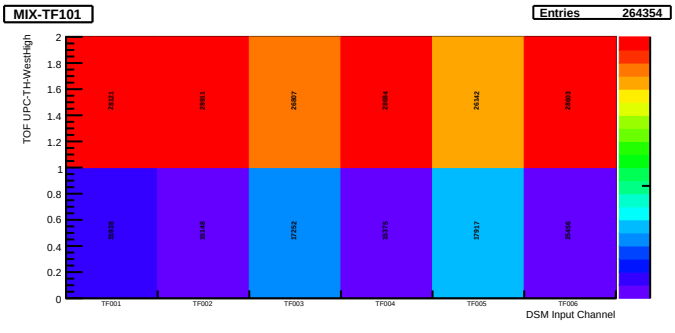

MIX-TF006
Entries 925239
TOF MULT
TOF tray

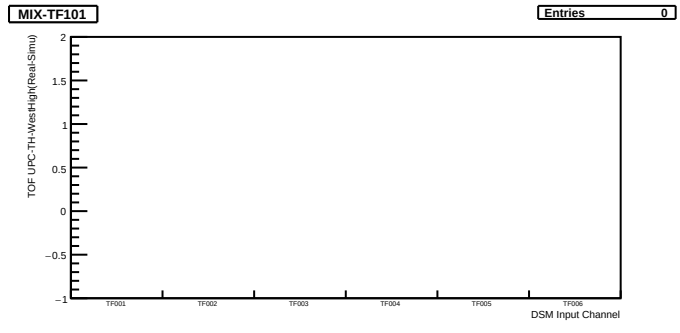

MIX-TF101
Entries 264354
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

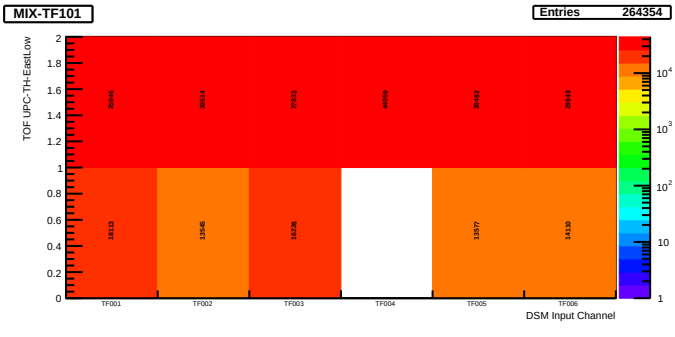

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

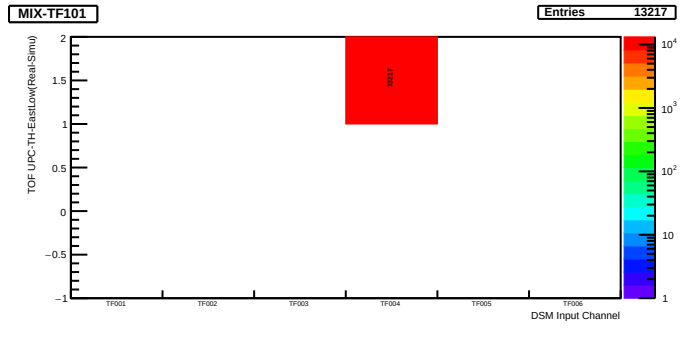

MIX-TF101
Entries 264354
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

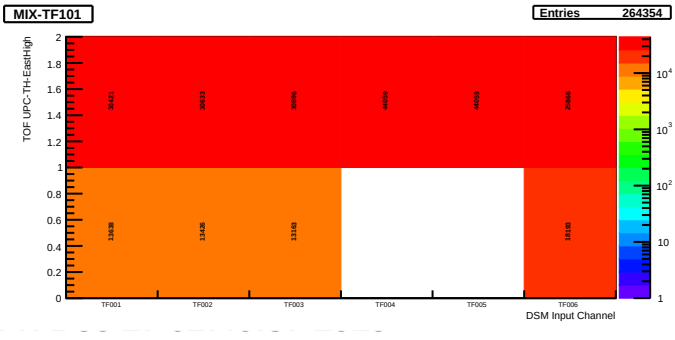

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

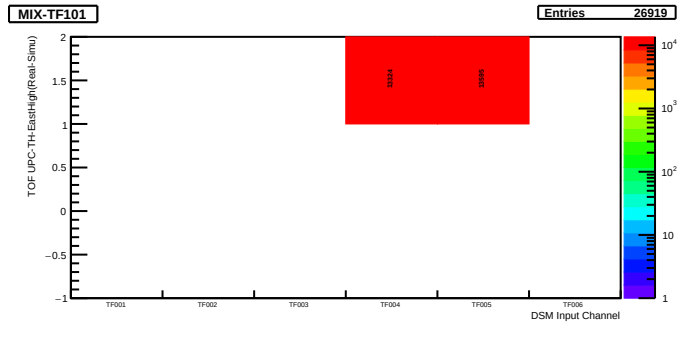

MIX-TF101
Entries 264354
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

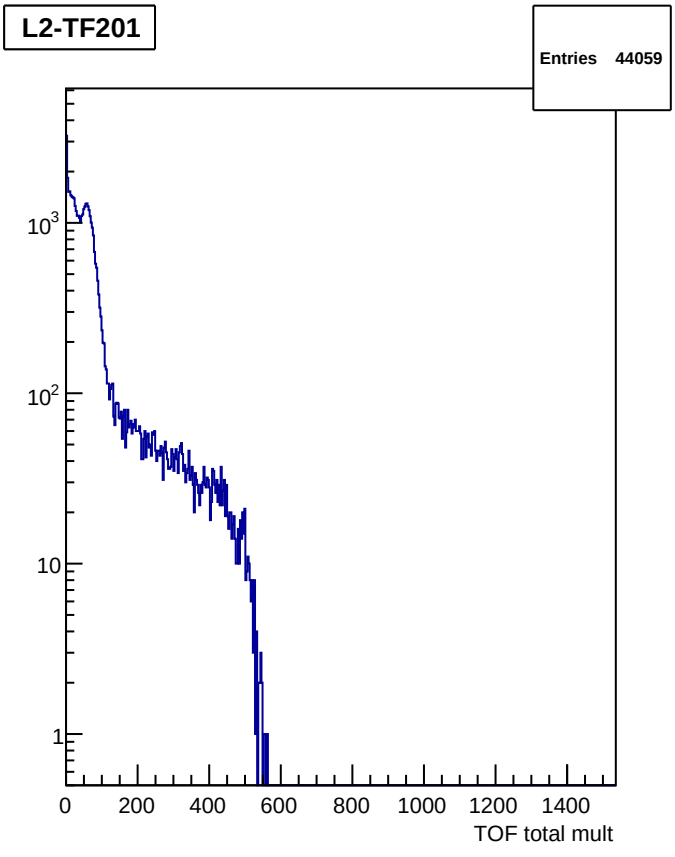

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

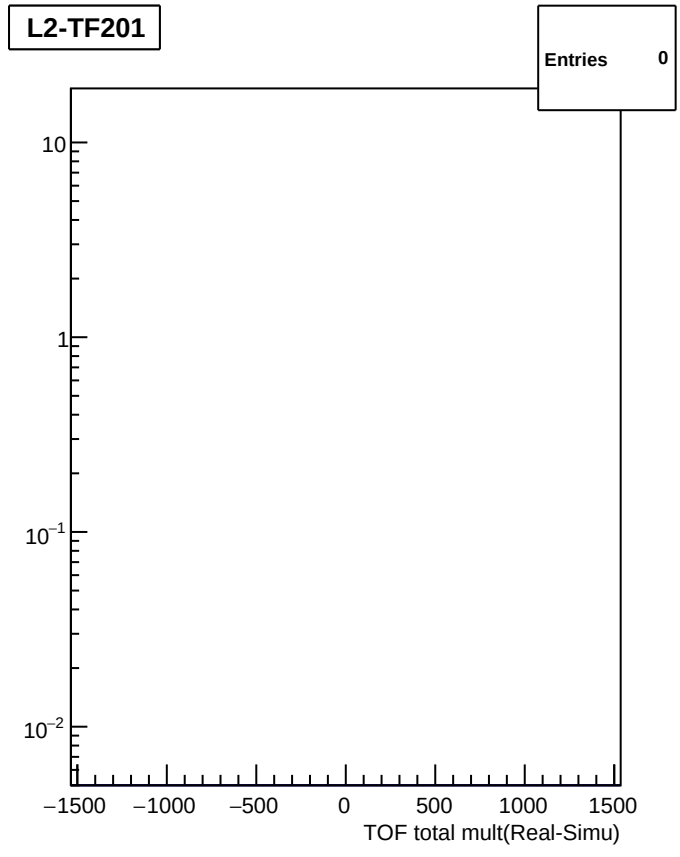

MIX-TF101
Entries 264354
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

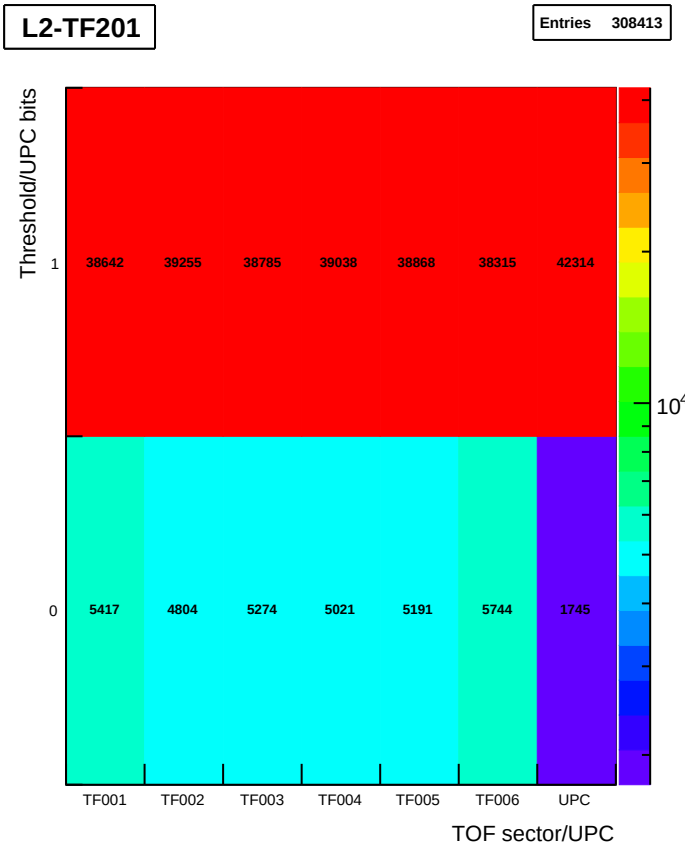

MIX-TF101
Entries 13217
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

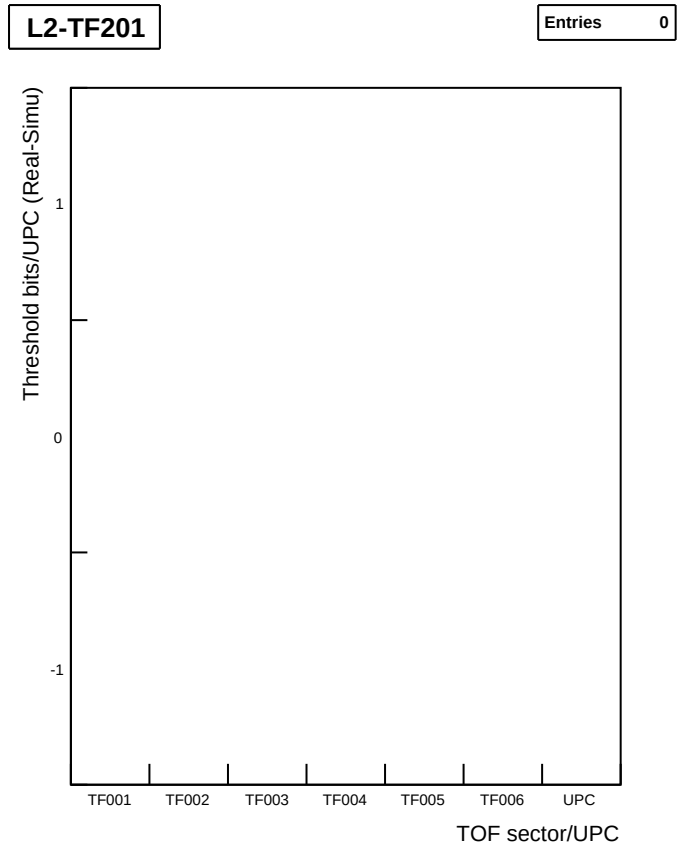

MIX-TF101
Entries 264354
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

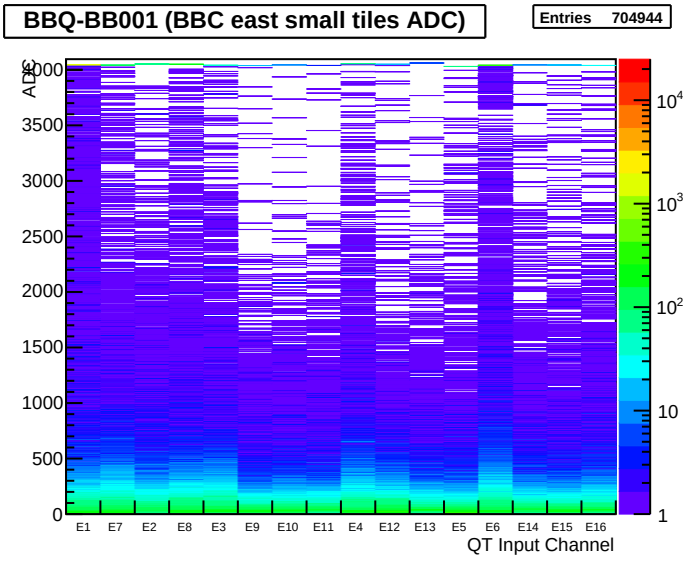

MIX-TF101
Entries 26919
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

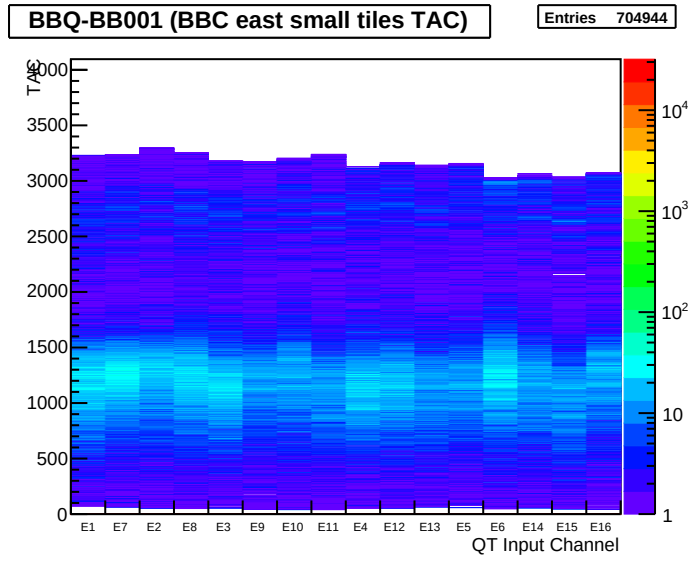

L2-TF201
Entries 44059
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

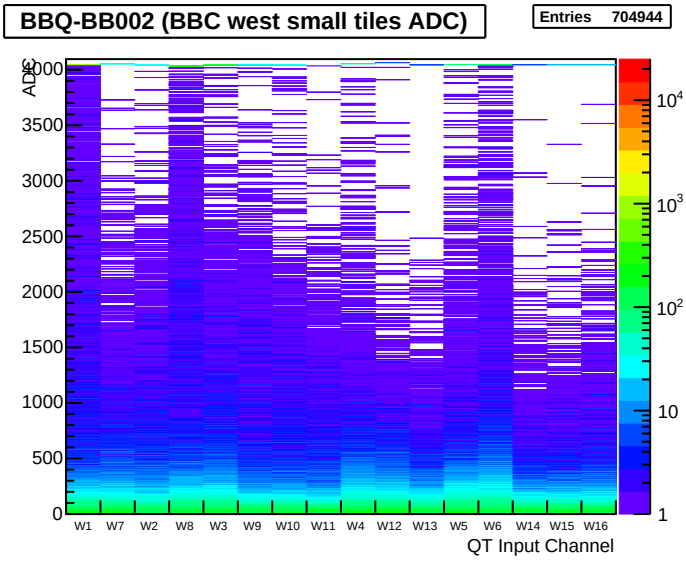

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

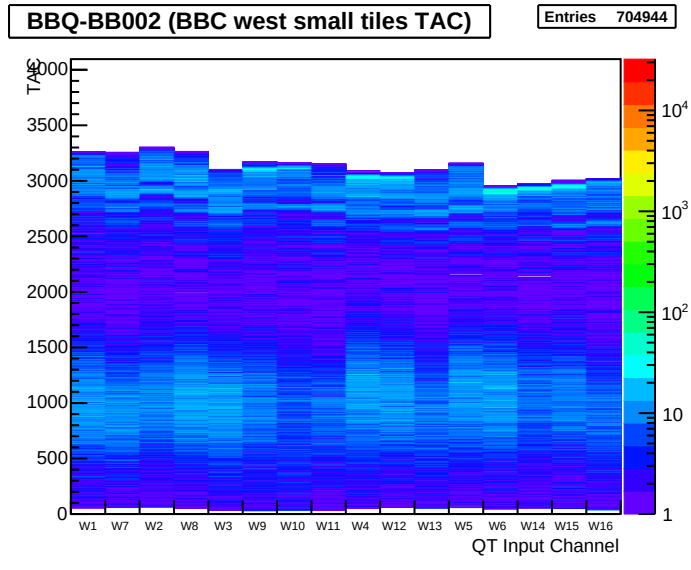

L2-TF201
Entries 308413
Threshold/UPC bits
1
0
38642
39255
38785
39038
38868
38315
42314
5417
4804
5274
5021
5191
5744
1745
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

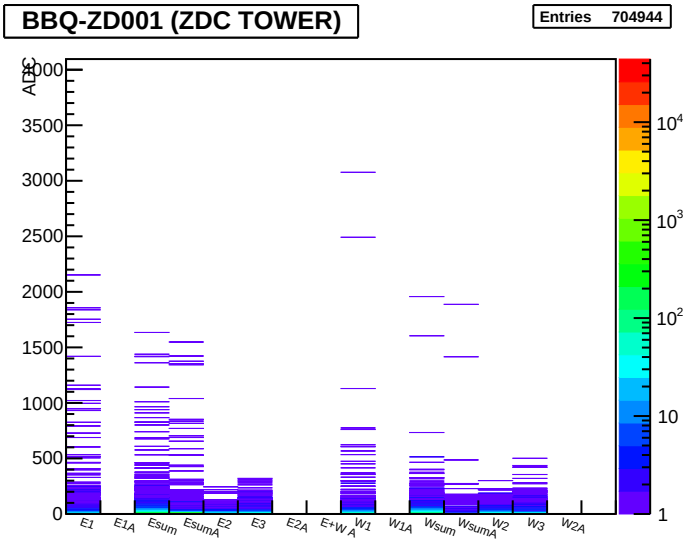

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

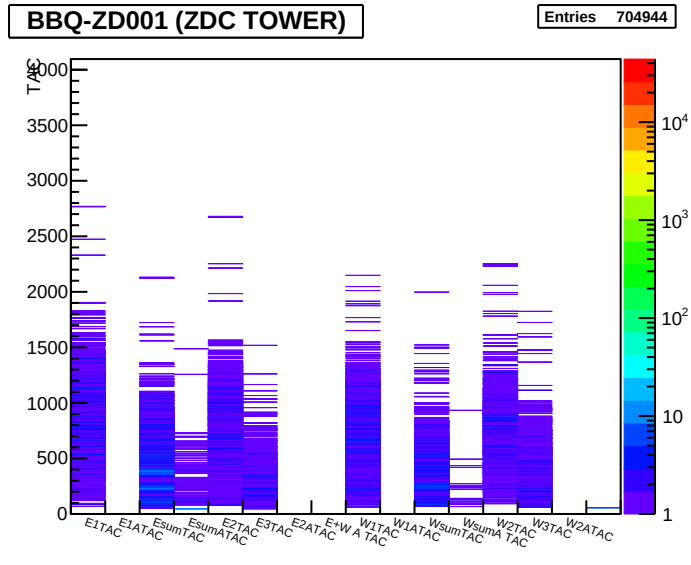

BBQ-BB001 (BBC east small tiles ADC)
Entries 704944
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

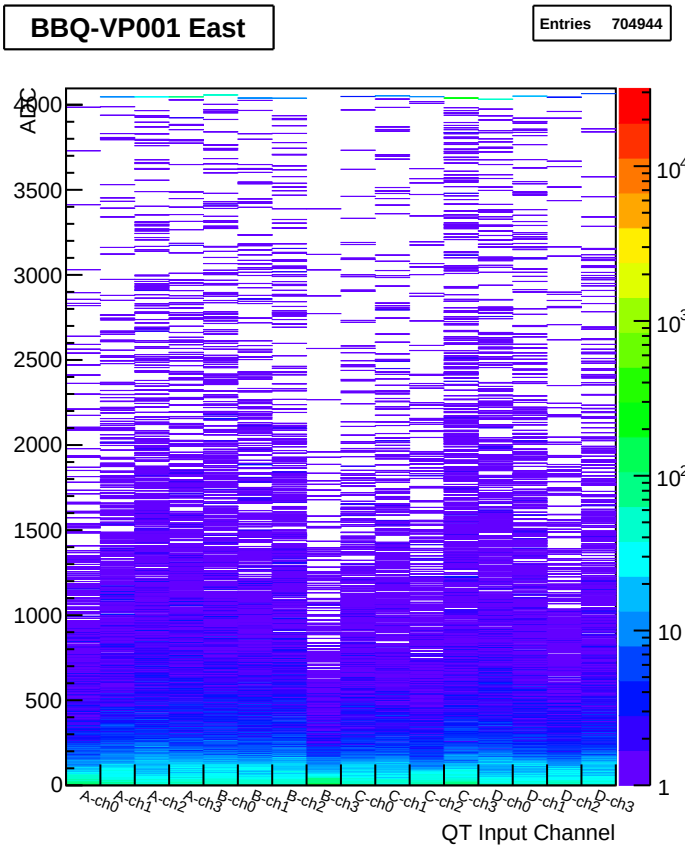

BBQ-BB001 (BBC east small tiles TAC)
Entries 704944
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

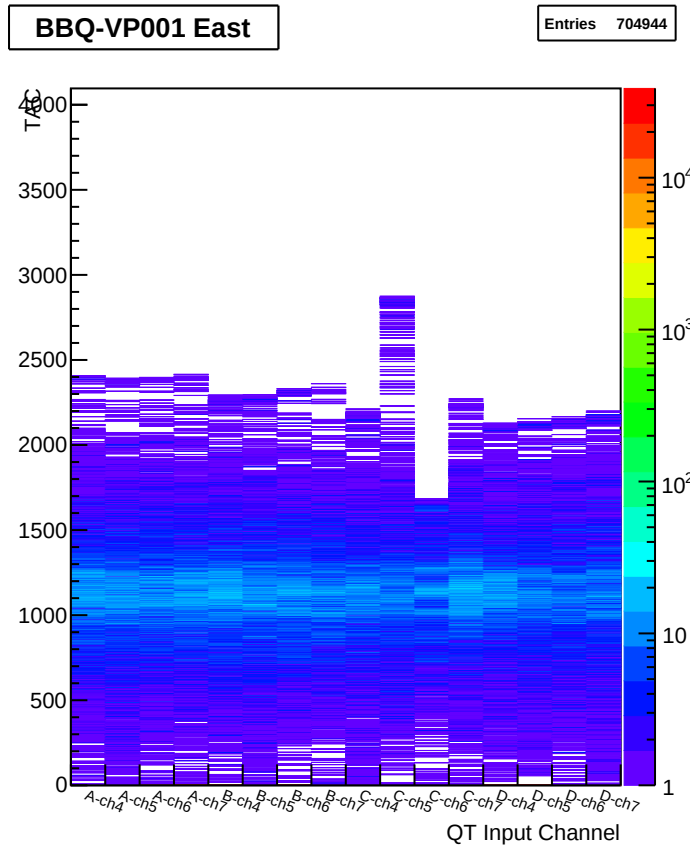

BBQ-BB002 (BBC west small tiles ADC)
Entries 704944
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

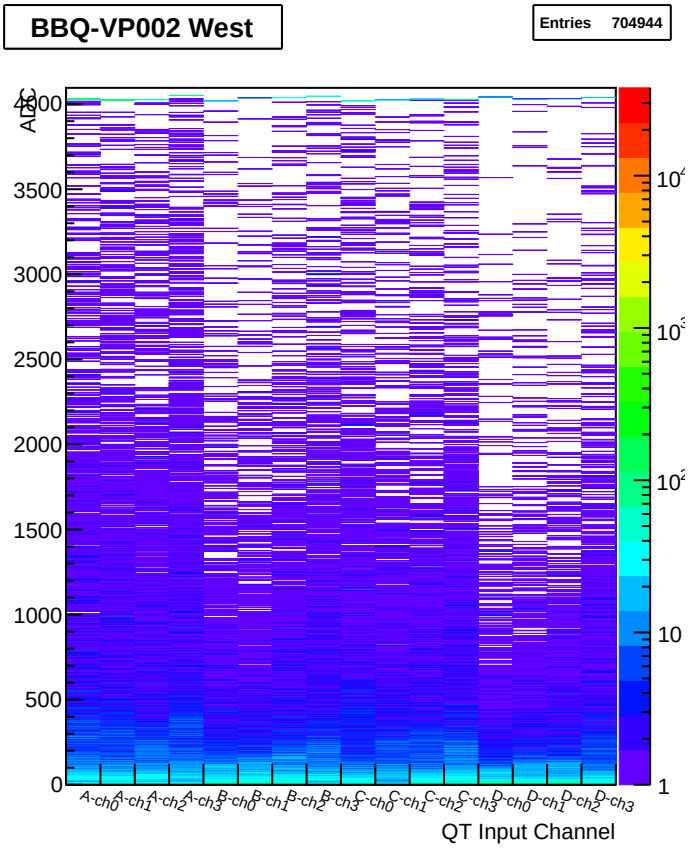

BBQ-BB002 (BBC west small tiles TAC)
Entries 704944
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

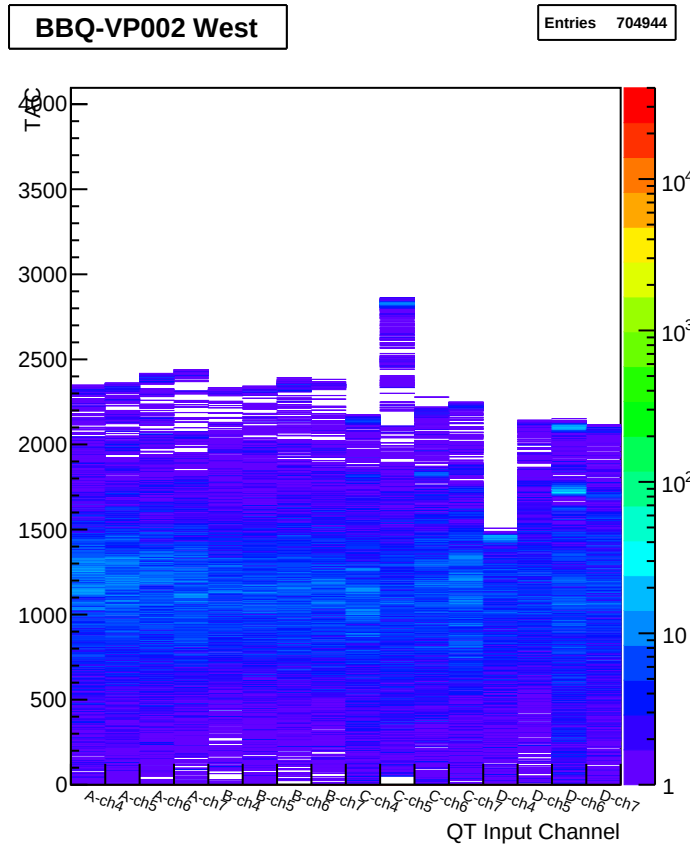

BBQ-ZD001 (ZDC TOWER)
Entries 704944
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

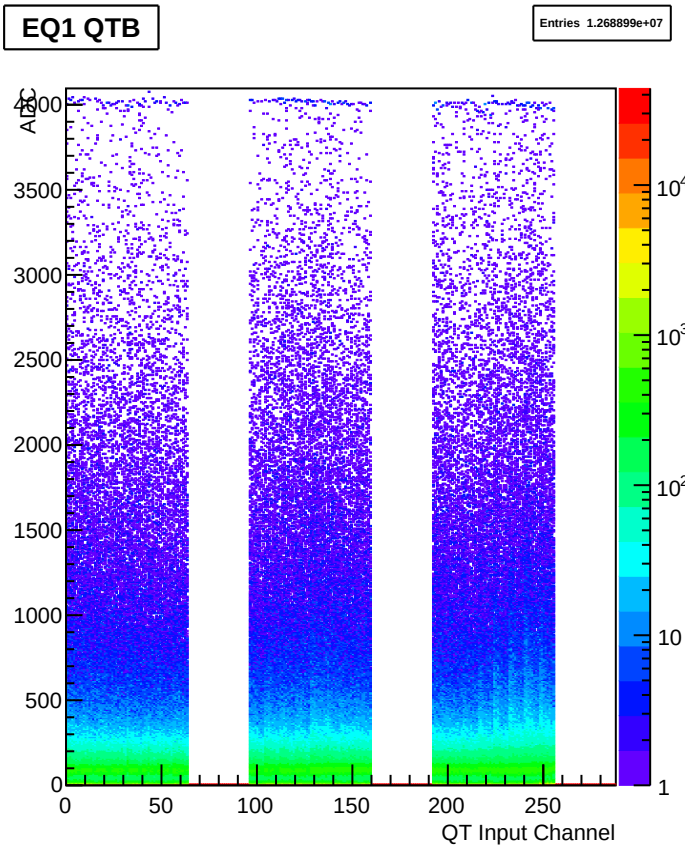

BBQ-ZD001 (ZDC TOWER)
Entries 704944
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

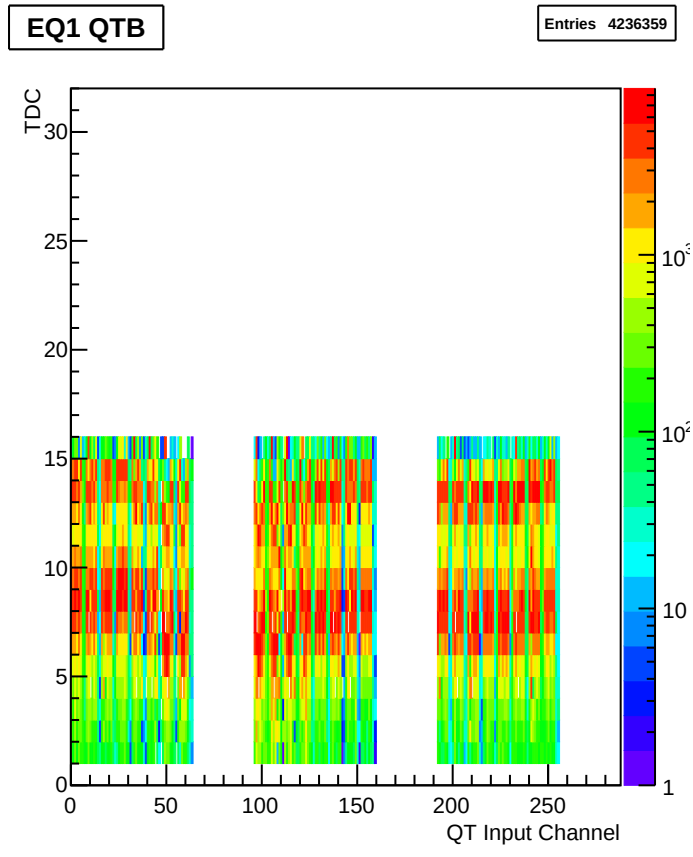

BBQ-VP001 East
Entries 704944
ADC
QT Input Channel

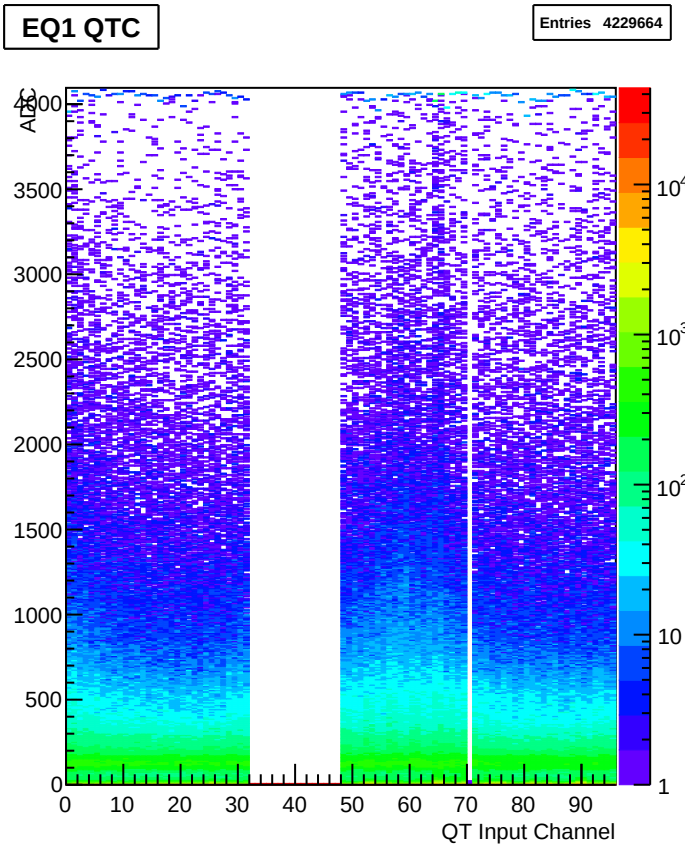

BBQ-VP001 East
Entries 704944
TADC
QT Input Channel

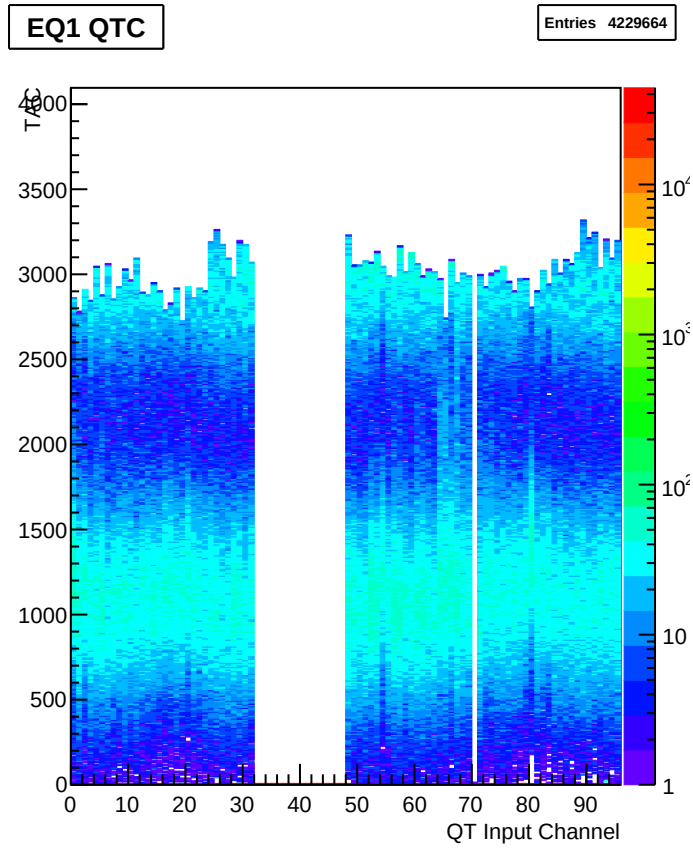

BBQ-VP002 West
Entries 704944
ADC
QT Input Channel

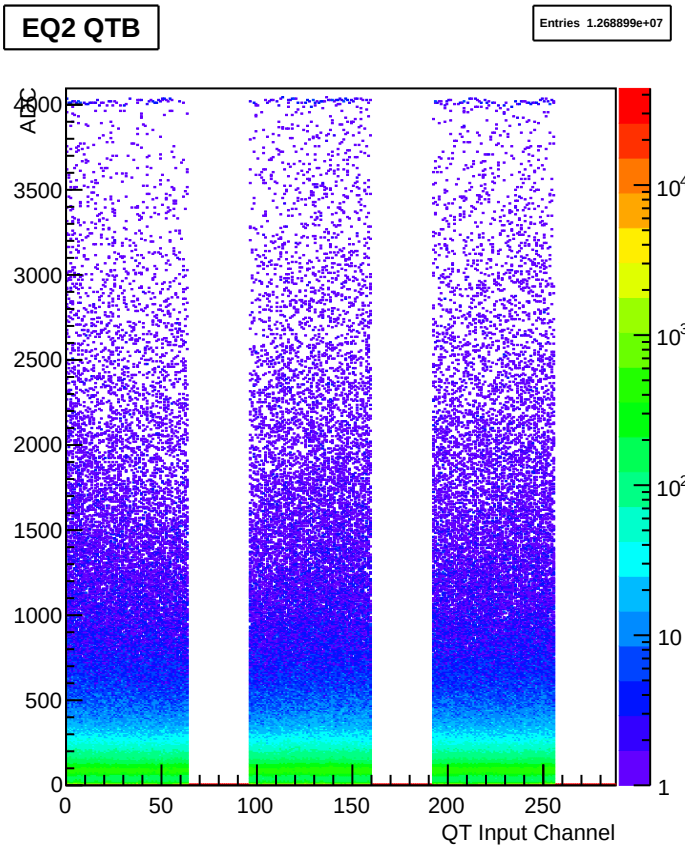

BBQ-VP002 West
Entries 704944
TADC
QT Input Channel

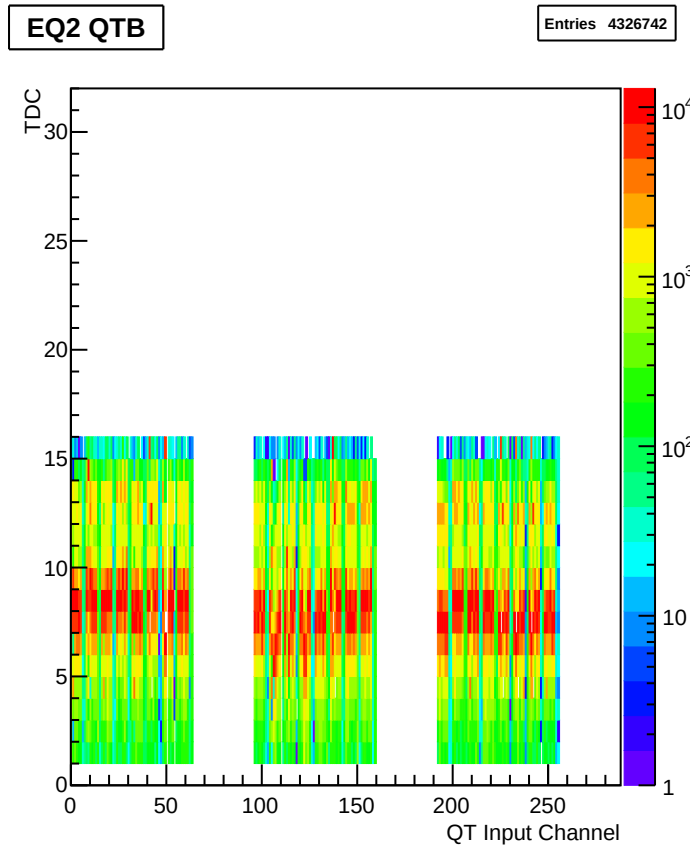

EQ1 QTB
Entries 1.268899e+07
ADC
QT Input Channel

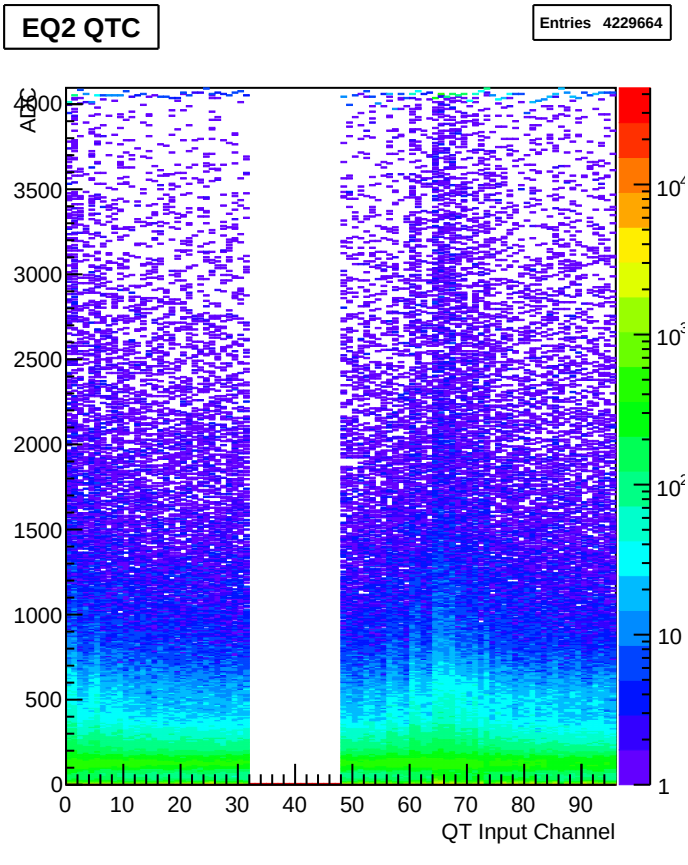

EQ1 QTB
Entries 4236359
TDC
QT Input Channel

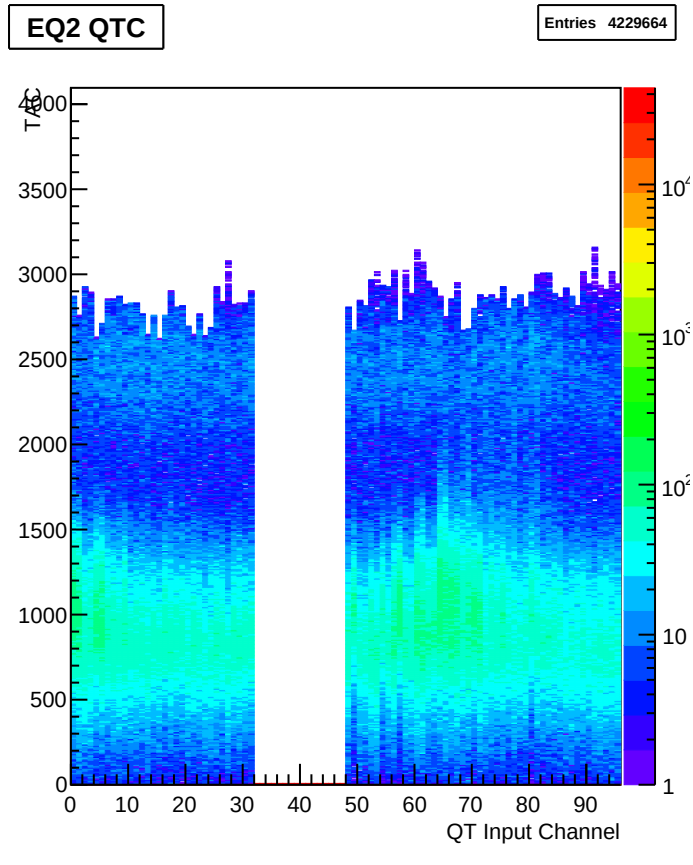

EQ1 QTC
Entries 4229664
ADC
QT Input Channel

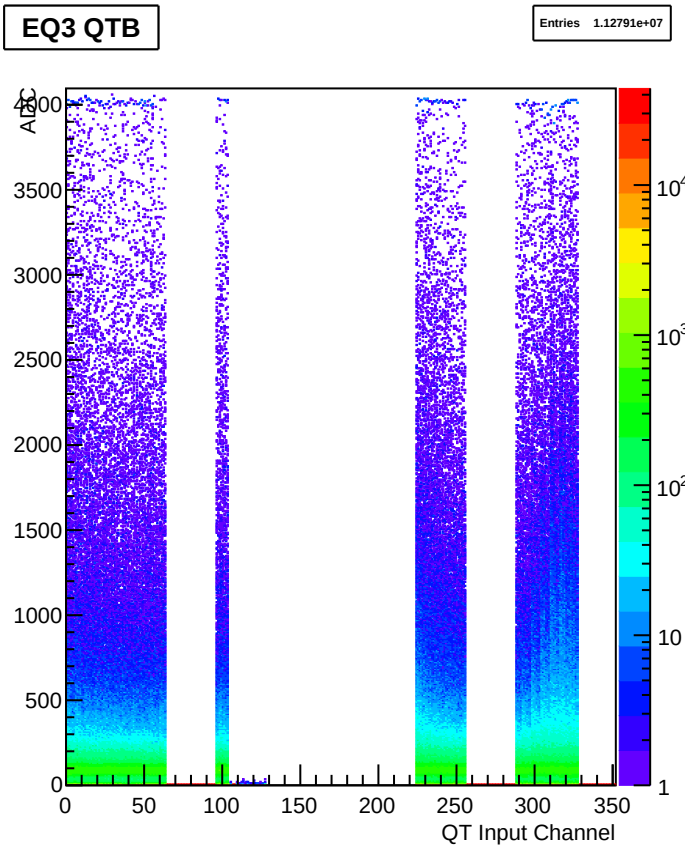

EQ1 QTC
Entries 4229664
TADC
QT Input Channel

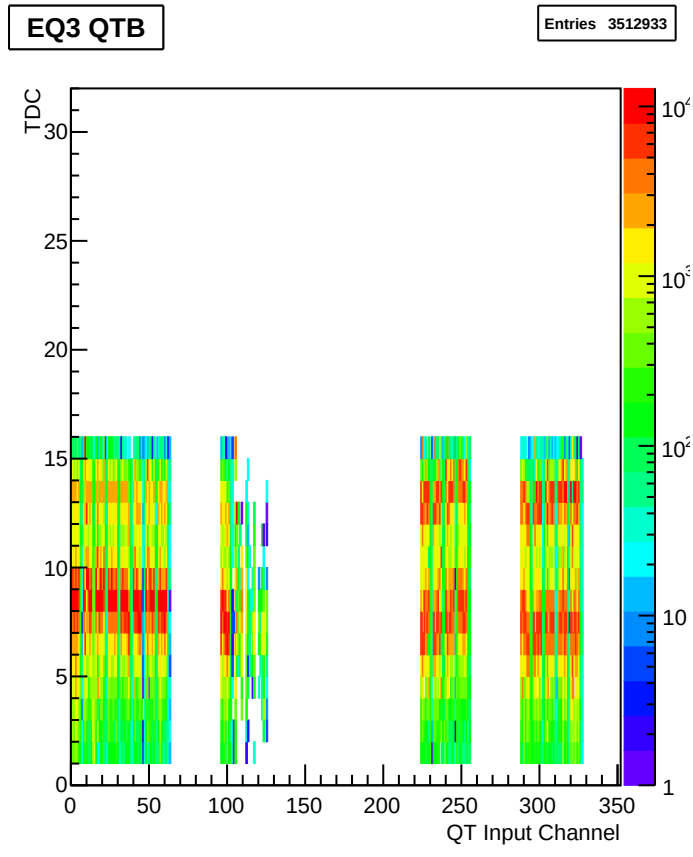

EQ2 QTB
Entries 1.268899e+07
ADC
QT Input Channel

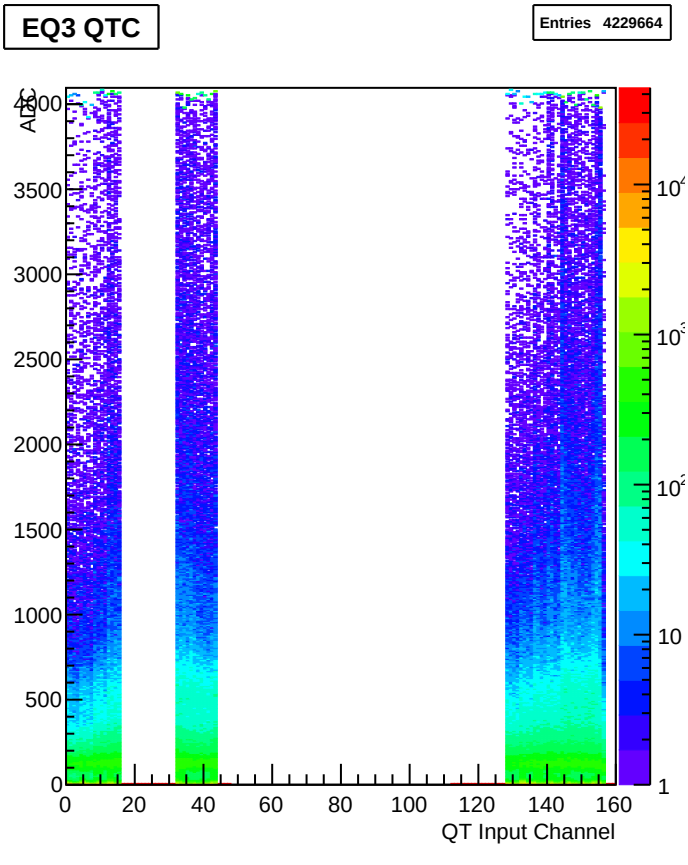

EQ2 QTB
Entries 4326742
TDC
QT Input Channel

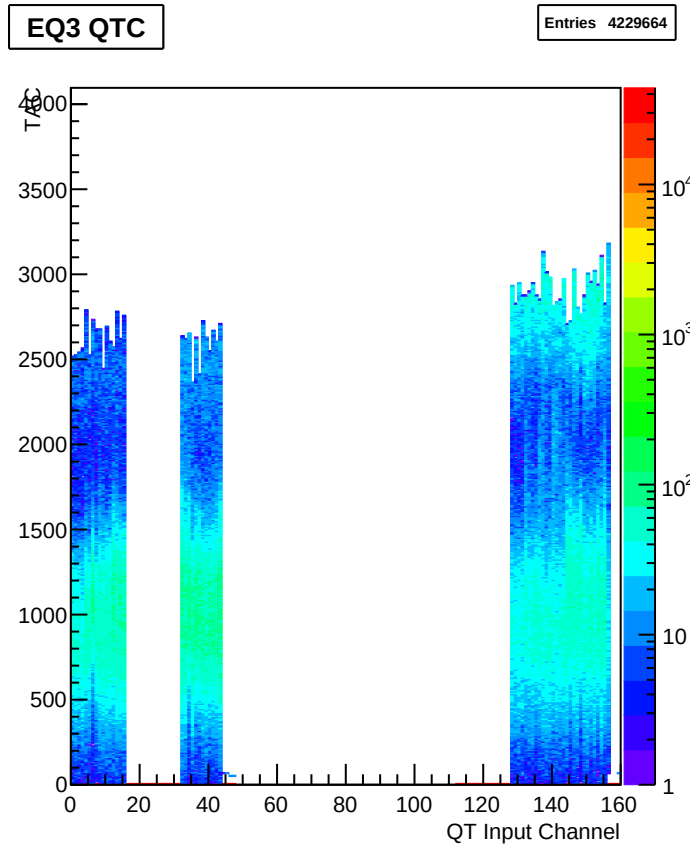

EQ2 QTC
Entries 4229664
ADC
QT Input Channel

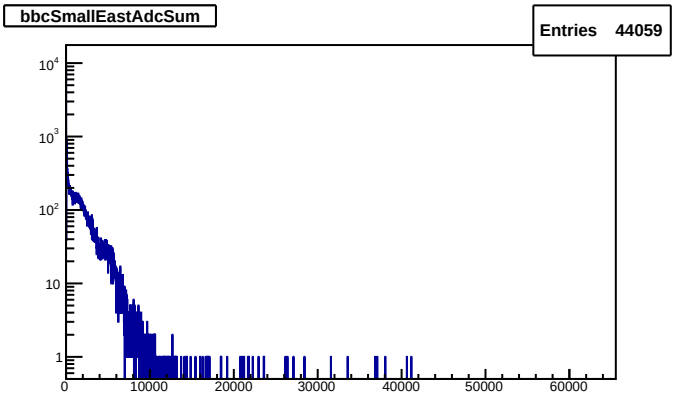

EQ2 QTC
Entries 4229664
TADC
QT Input Channel

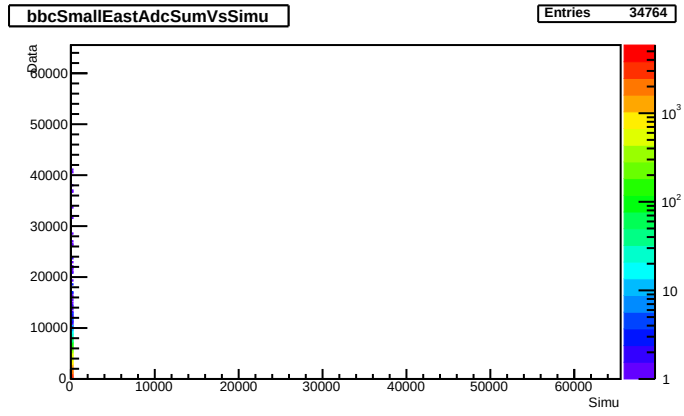

EQ3 QTB
Entries 1.12791e+07
ADC
QT Input Channel

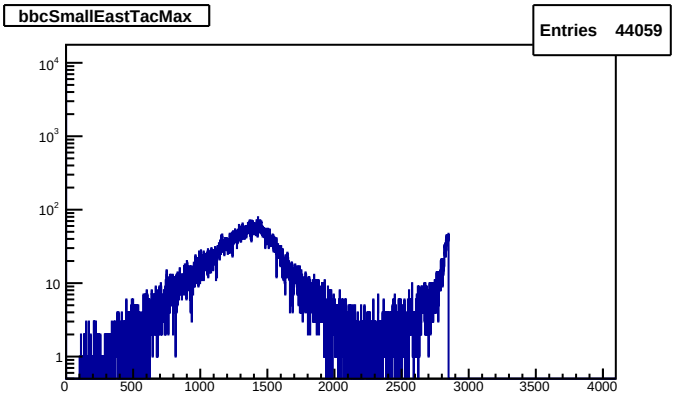

EQ3 QTB
Entries 3512933
TDC
QT Input Channel

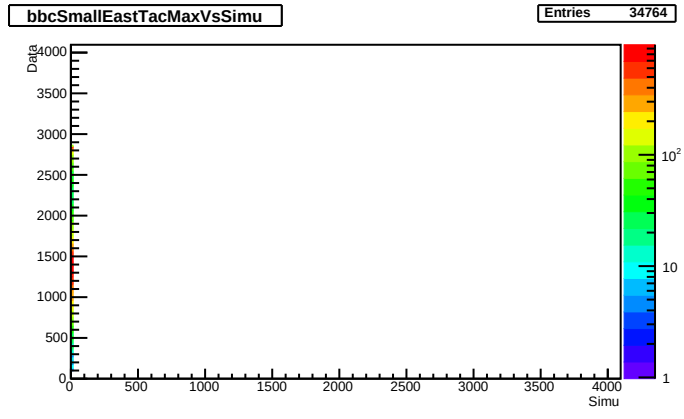

EQ3 QTC
Entries 4229664
ADC
QT Input Channel

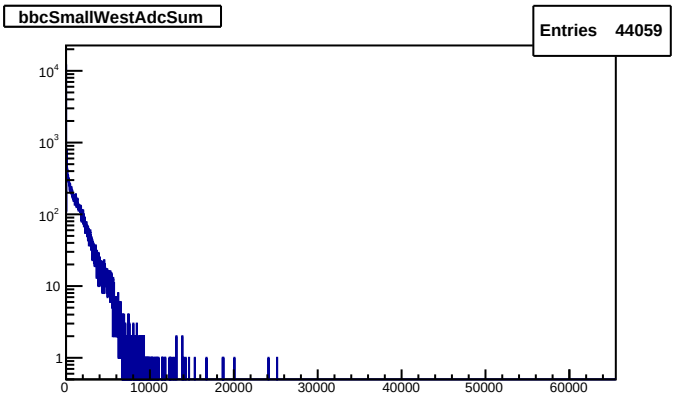

EQ3 QTC
Entries 4229664
TADC
QT Input Channel

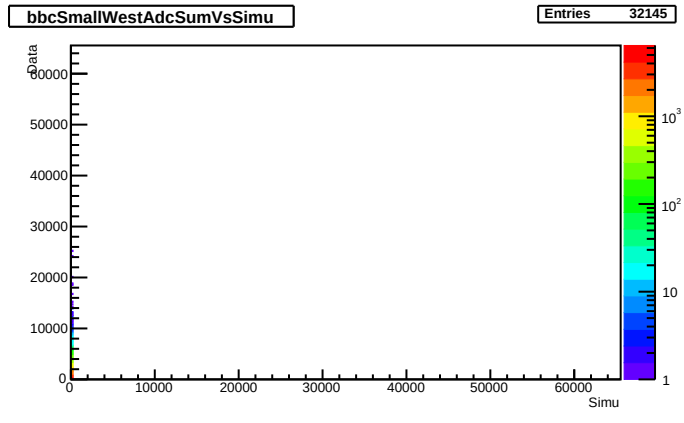

bbcSmallEastAdcSum
Entries 44059

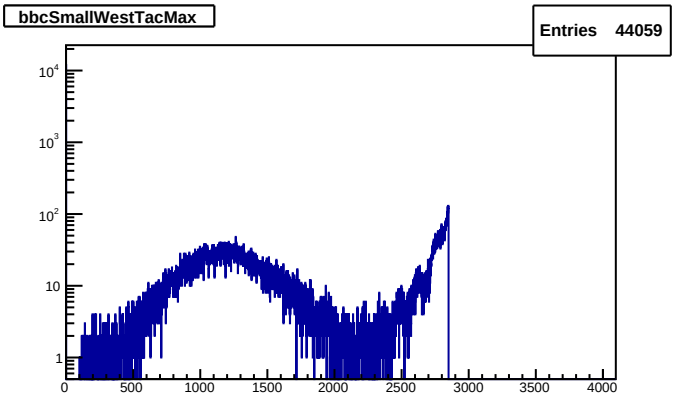

bbcSmallEastAdcSumVsSimu
Entries 34764
Data
Simu

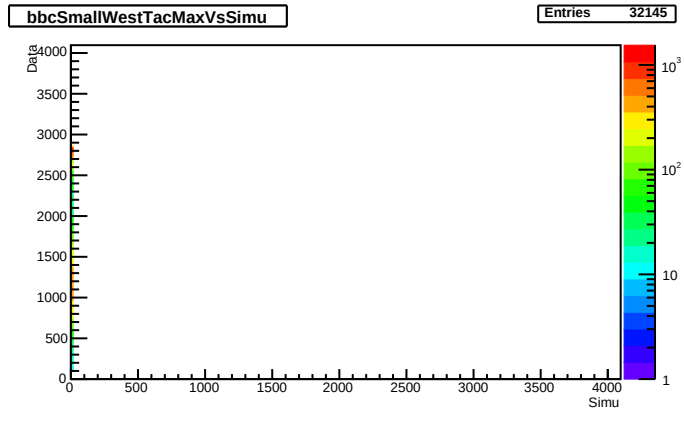

bbcSmallEastTacMax
Entries 44059

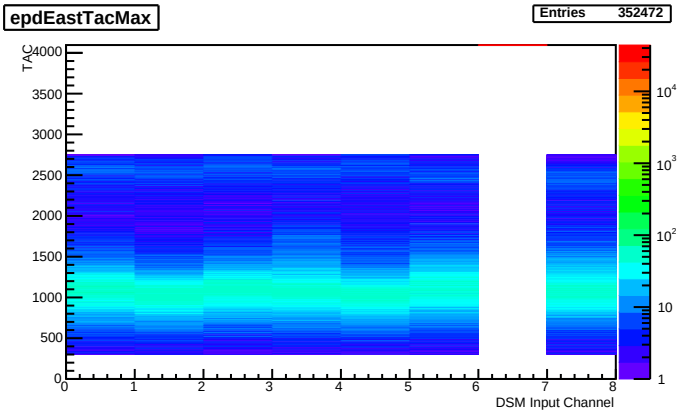

bbcSmallEastTacMaxVsSimu
Entries 34764
Data
Simu

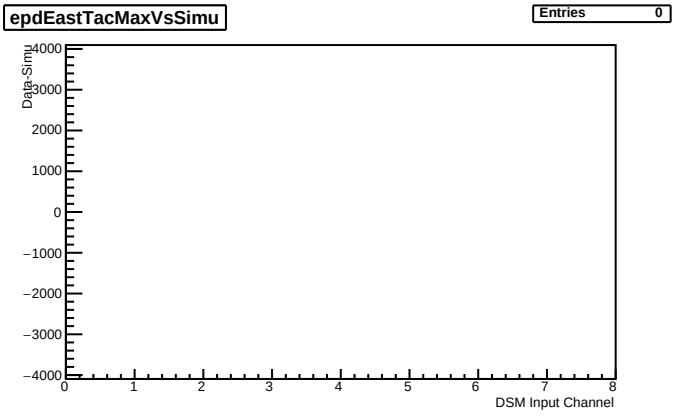

bbcSmallWestAdcSum
Entries 44059

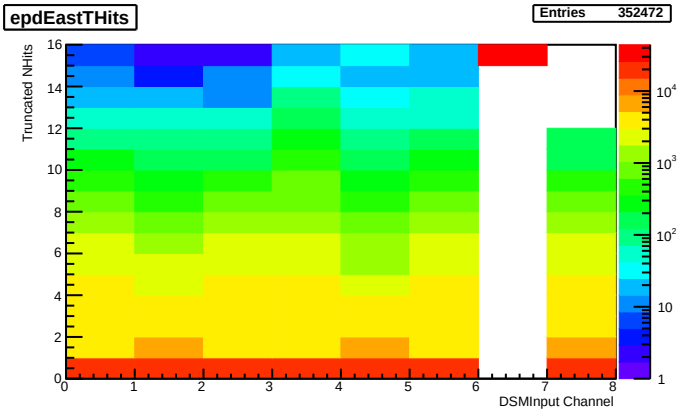

bbcSmallWestAdcSumVsSimu
Entries 32145
Data
Simu

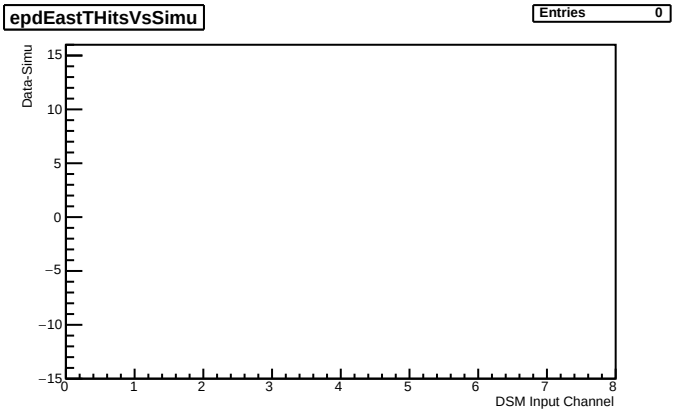

bbcSmallWestTacMax
Entries 44059

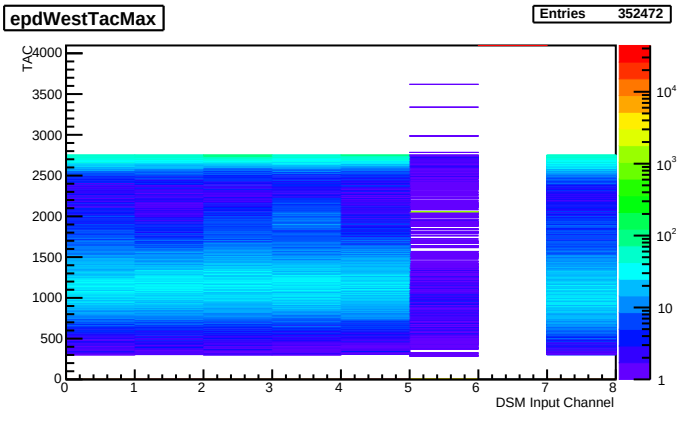

bbcSmallWestTacMaxVsSimu
Entries 32145
Data
Simu

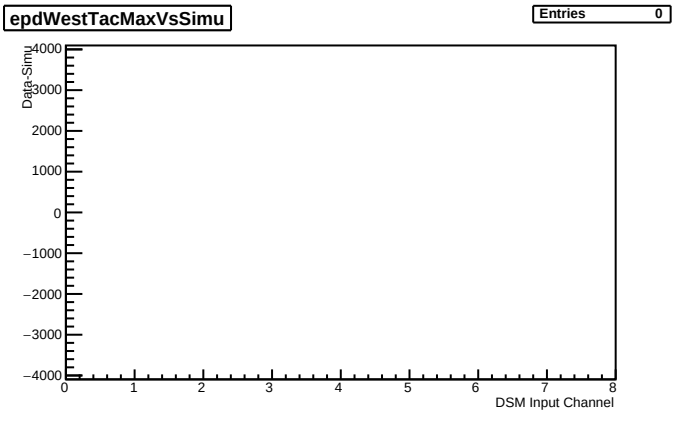

epdEastTacMax
Entries 352472
TAC
DSM Input Channel

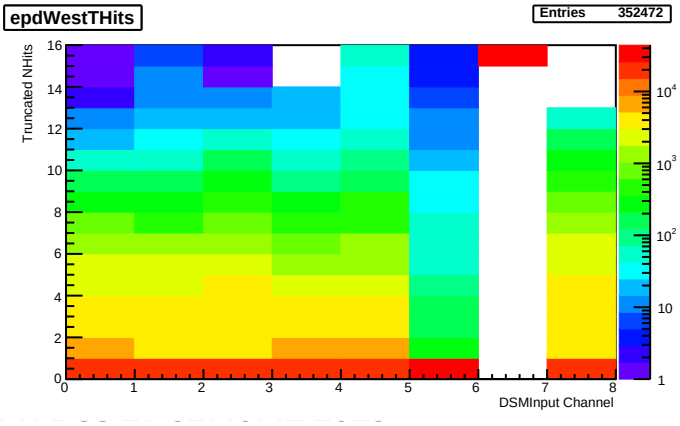

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

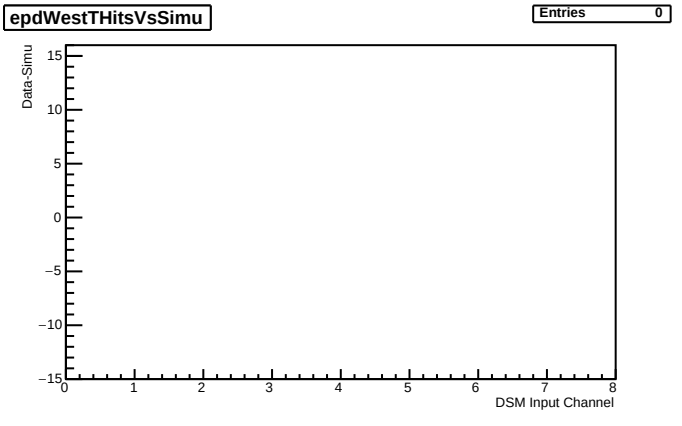

epdEastTHits
Entries 352472
Truncated NHits
DSMInput Channel

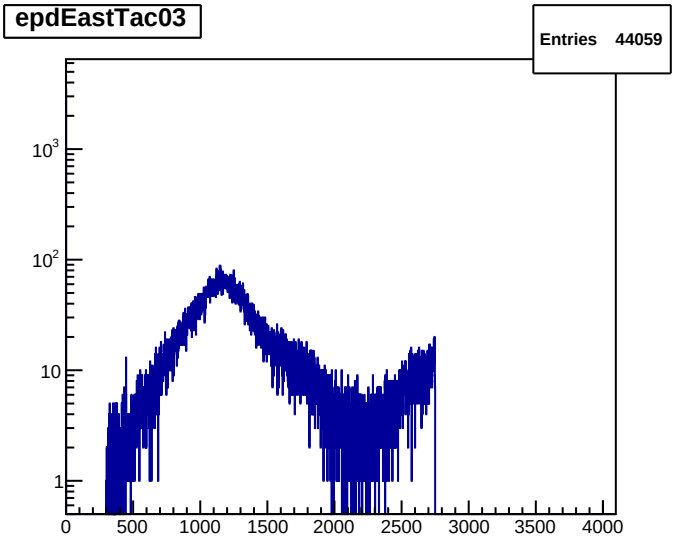

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

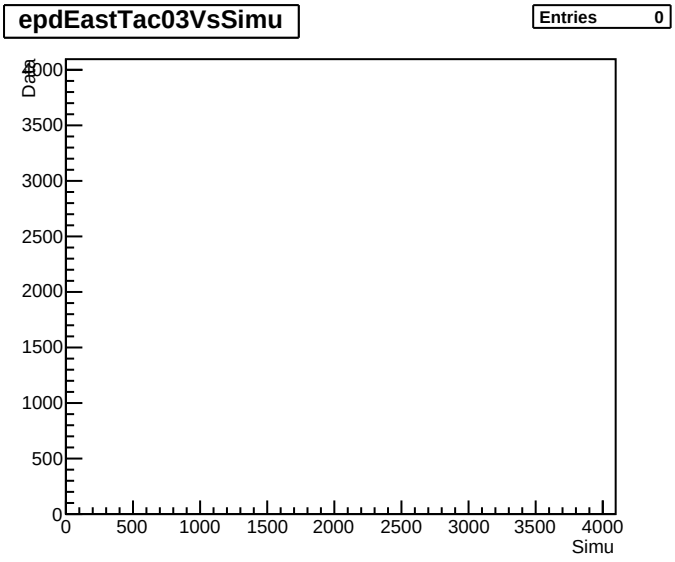

epdWestTacMax
Entries 352472
TAC
DSM Input Channel

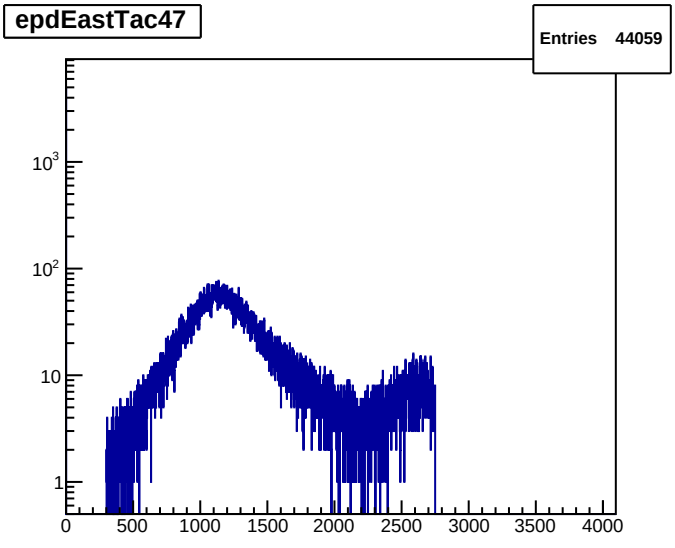

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

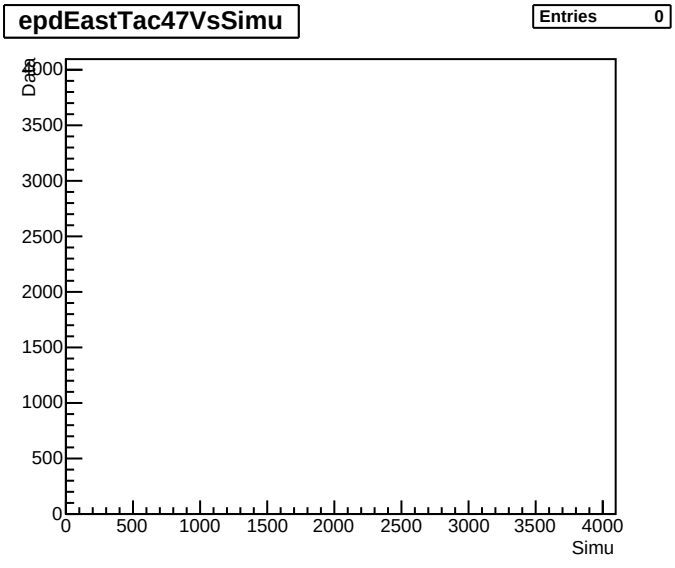

epdWestTHits
Entries 352472
Truncated NHits
DSMInput Channel

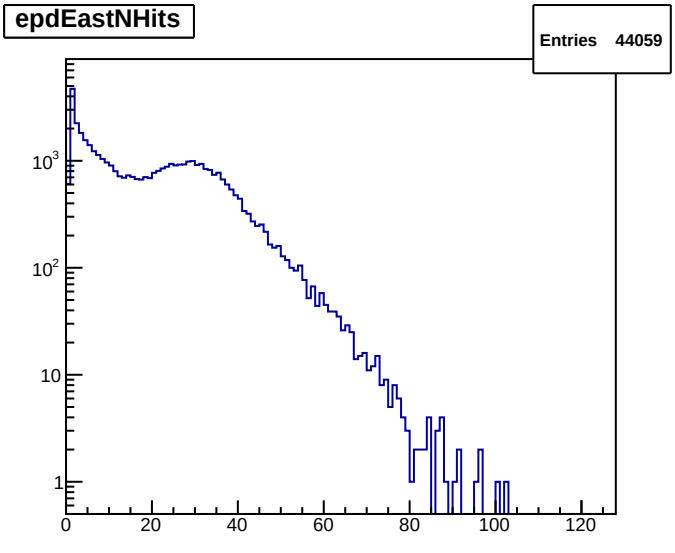

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

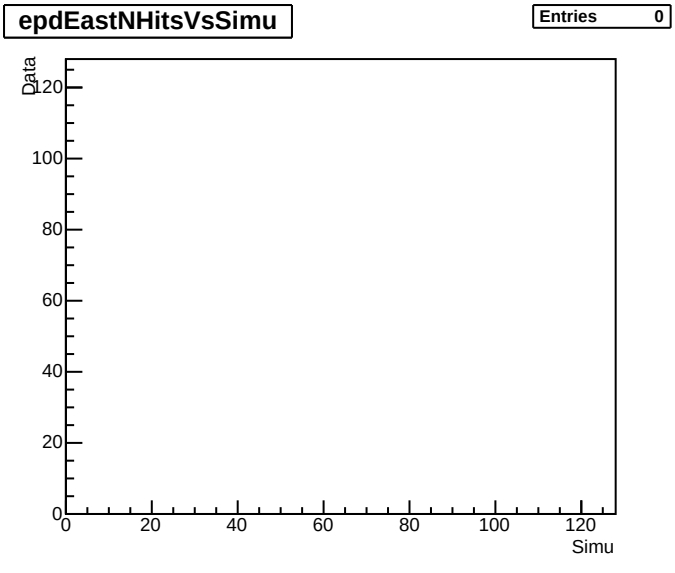

epdEastTac03
Entries 44059
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

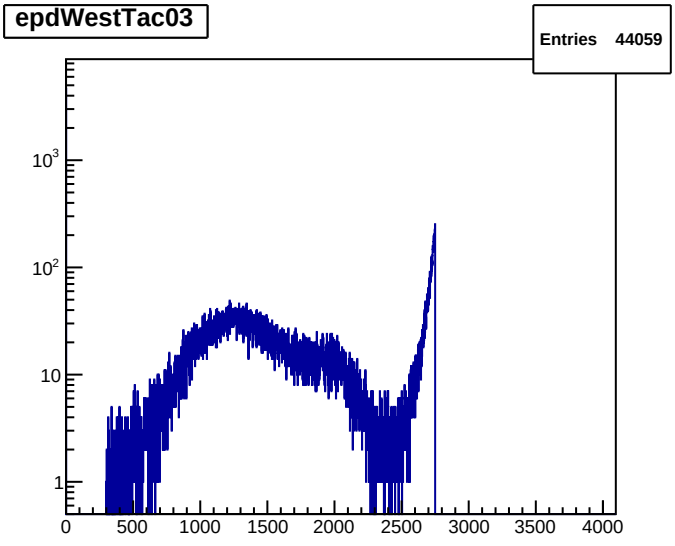

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

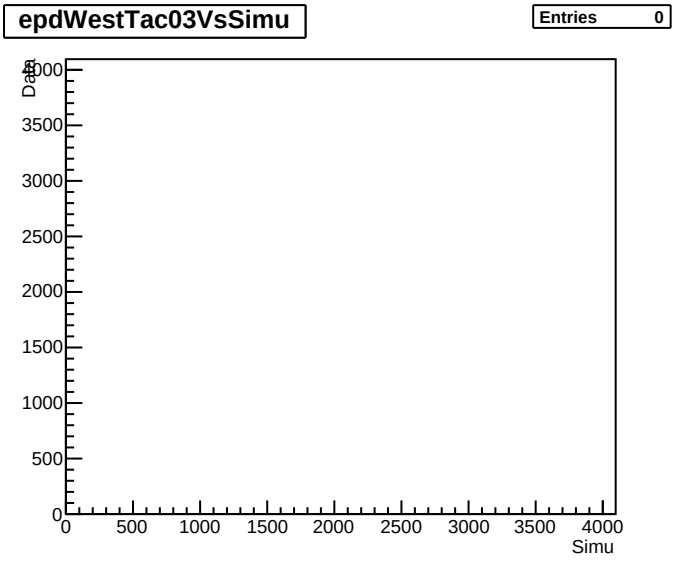

epdEastTac47
Entries 44059
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

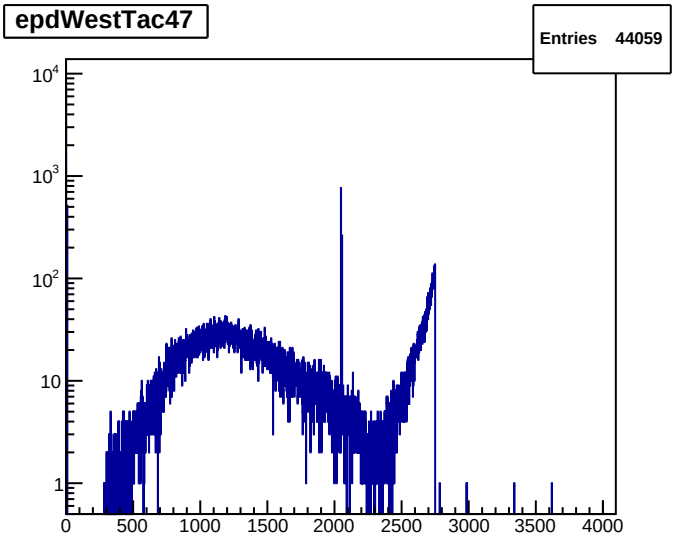

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

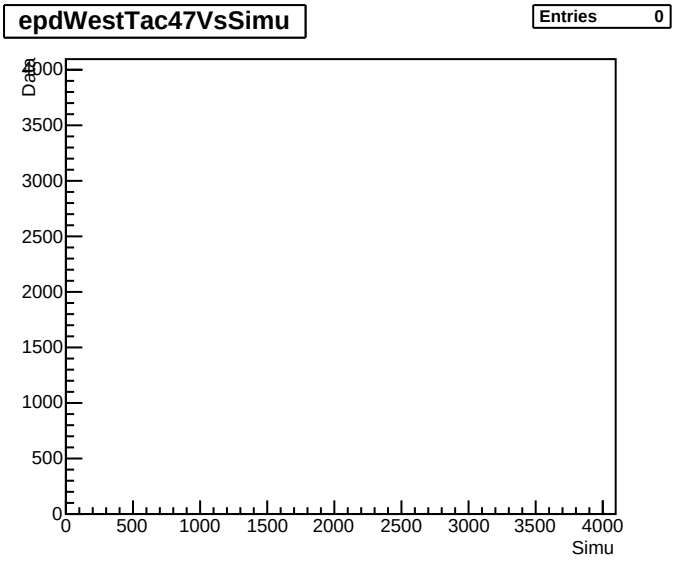

epdEastNHits
Entries 44059
10^3
10^2
10
1
0 20 40 60 80 100 120

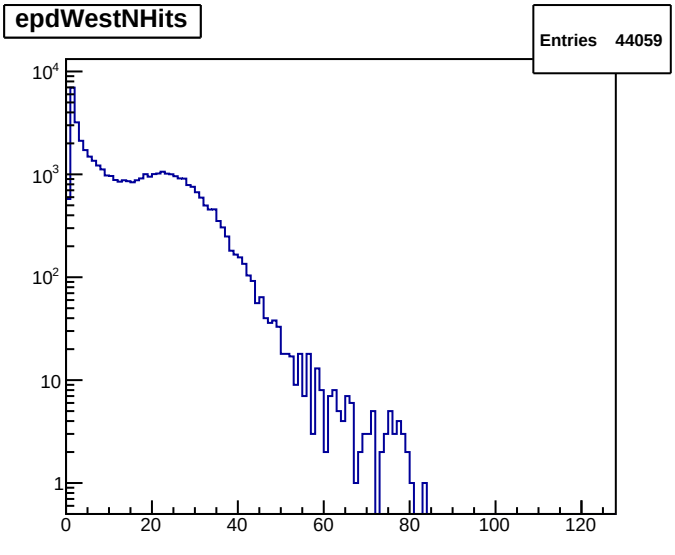

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

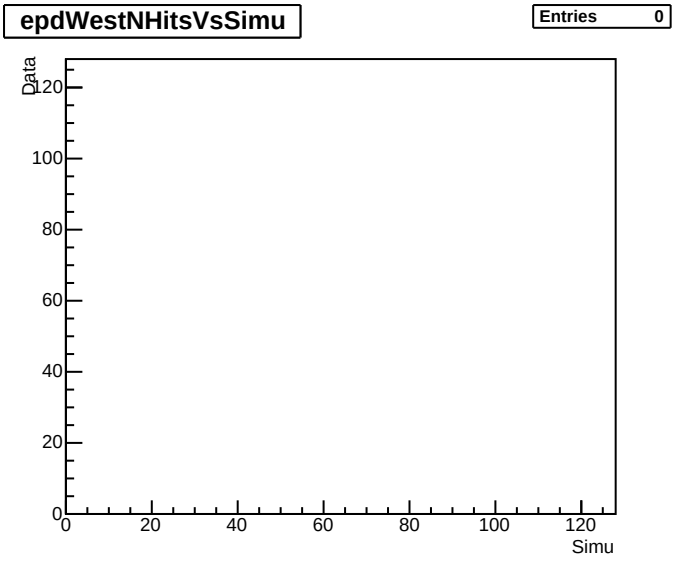

epdWestTac03
Entries 44059

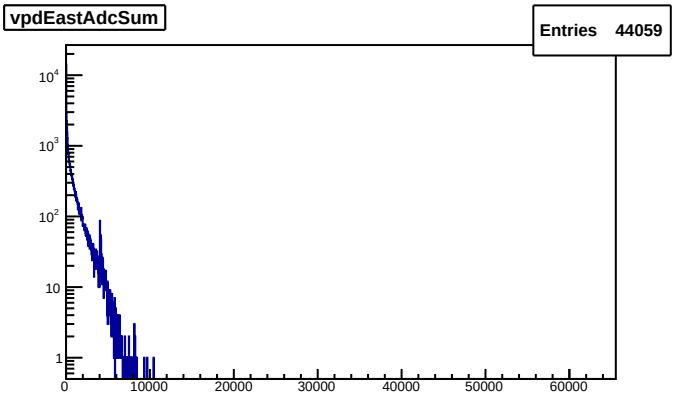

epdWestTac03VsSimu
Entries 0
Data
Simu

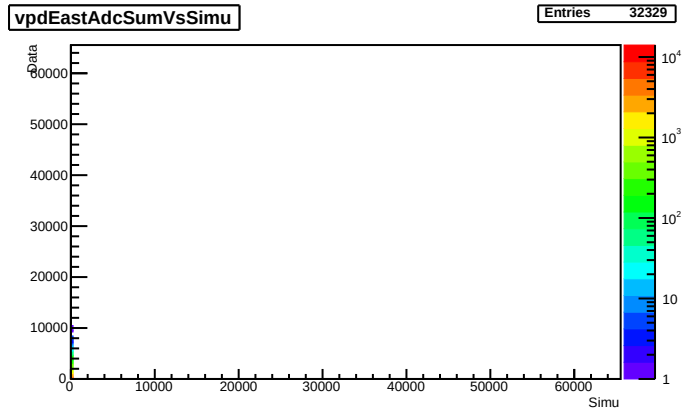

epdWestTac47
Entries 44059

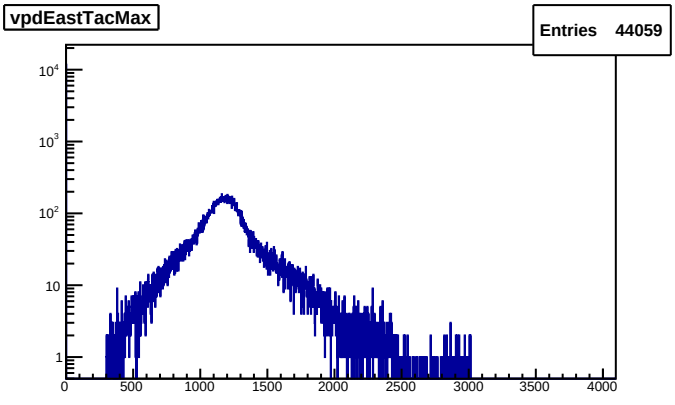

epdWestTac47VsSimu
Entries 0
Data
Simu

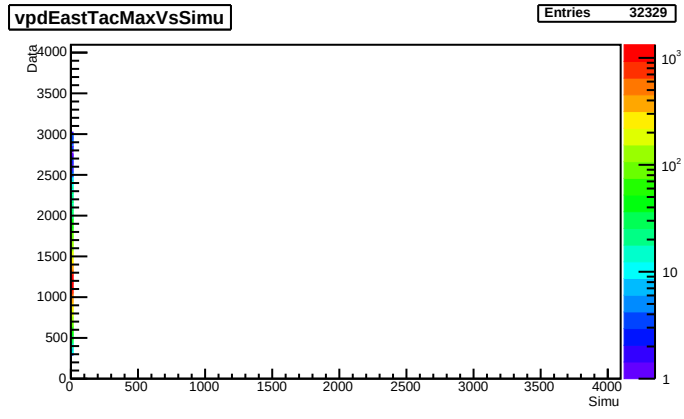

epdWestNHits
Entries 44059

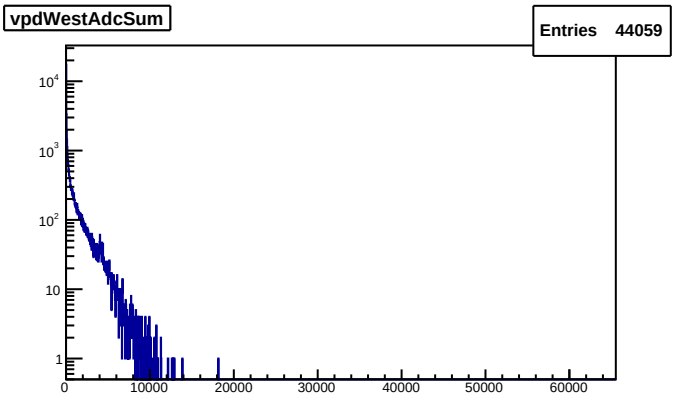

epdWestNHitsVsSimu
Entries 0
Data
Simu

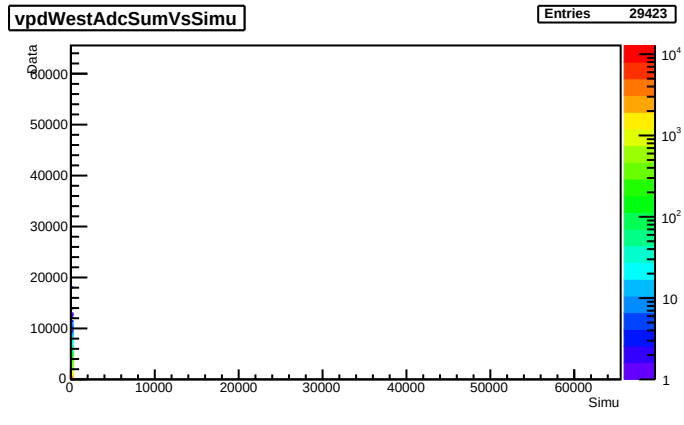

vpdEastAdcSum
Entries 44059

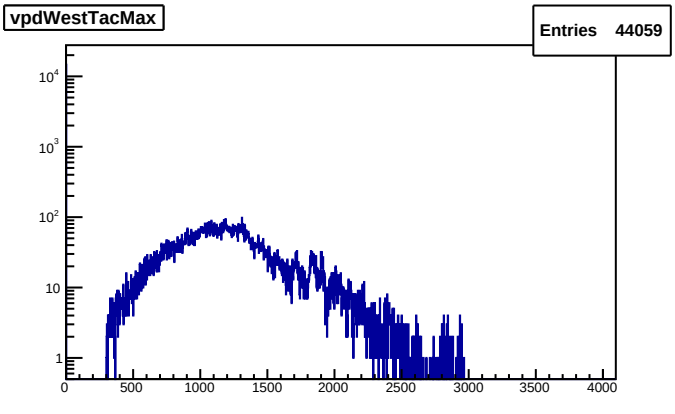

vpdEastAdcSumVsSimu
Entries 32329
Data
Simu

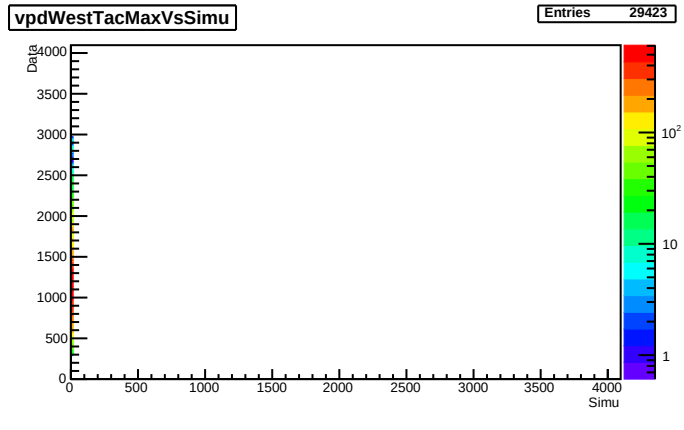

vpdEastTacMax
Entries 44059

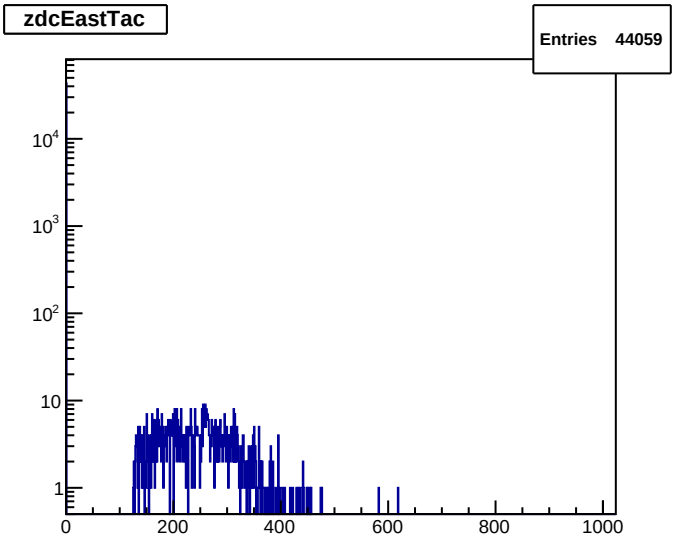

vpdEastTacMaxVsSimu
Entries 32329
Data
Simu

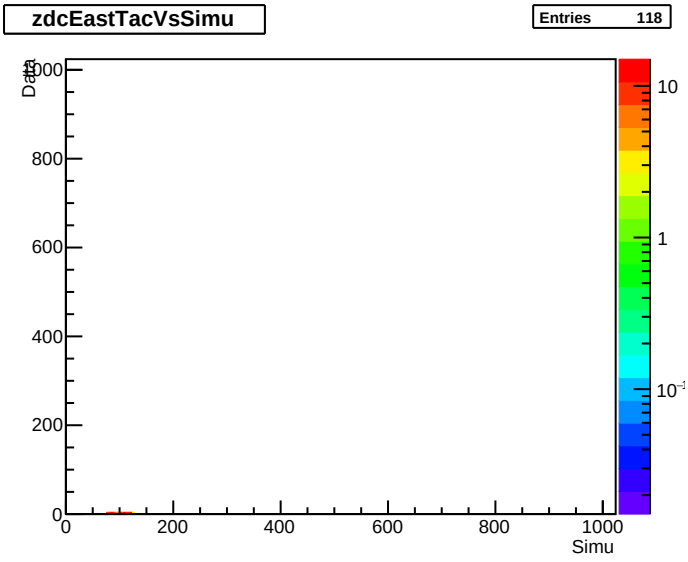

vpdWestAdcSum
Entries 44059

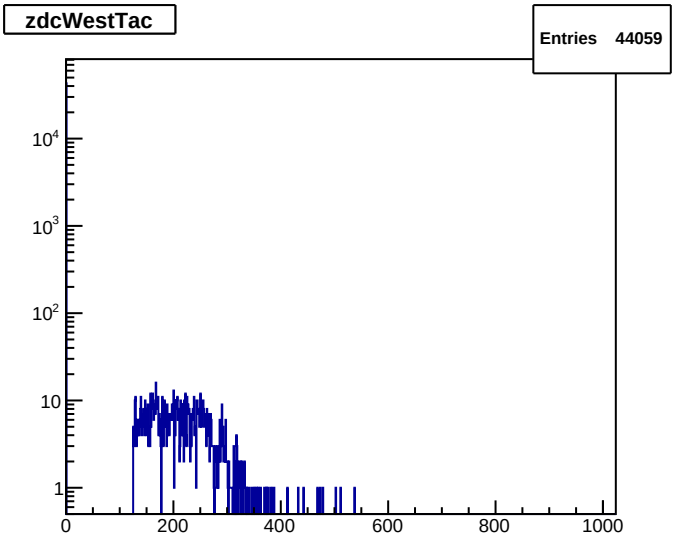

vpdWestAdcSumVsSimu
Entries 29423
Data
Simu

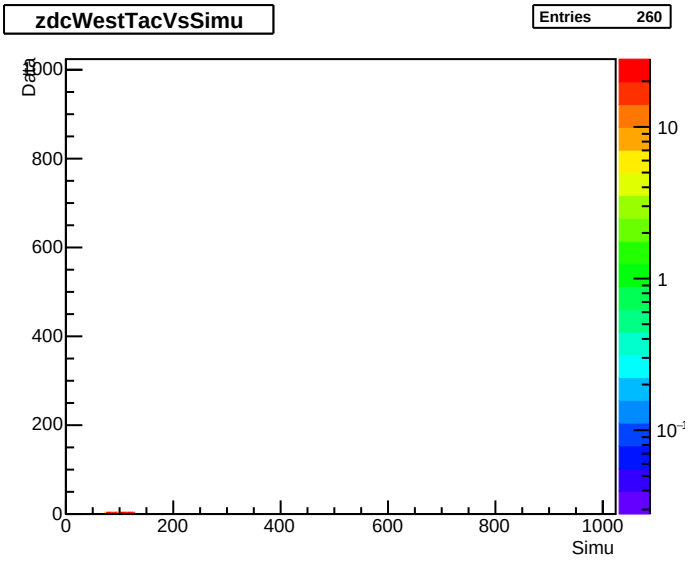

vpdWestTacMax
Entries 44059

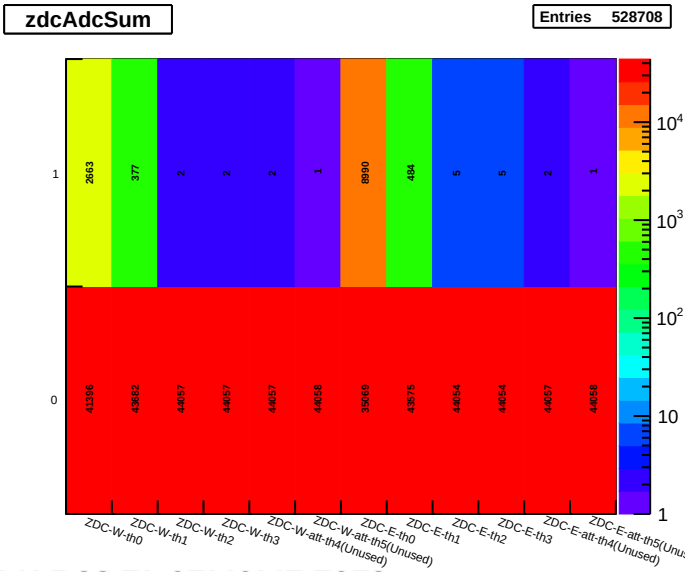

vpdWestTacMaxVsSimu
Entries 29423
Data
Simu

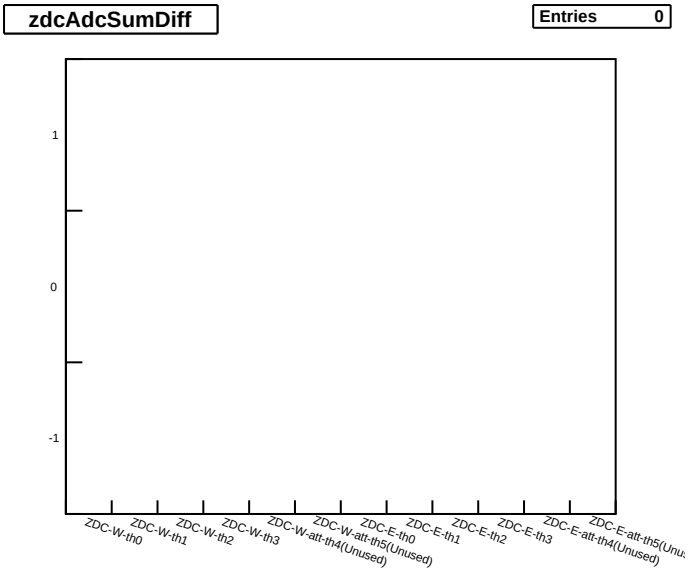

zdcEastTac
Entries 44059

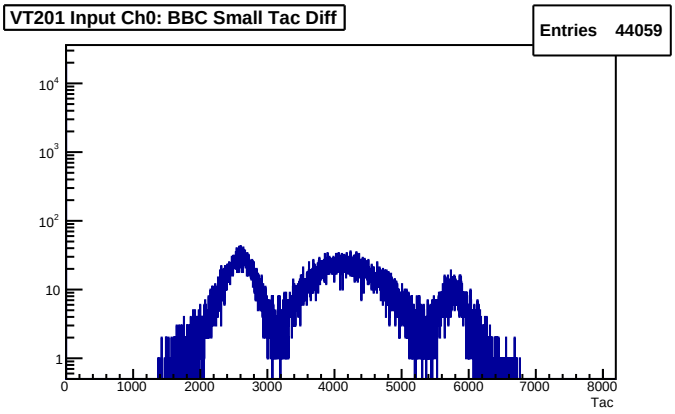

zdcEastTacVsSimu
Entries 118
Data
Simu

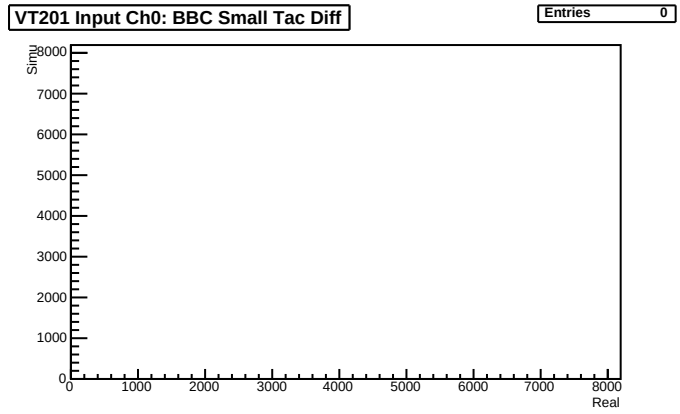

zdcWestTac
Entries 44059

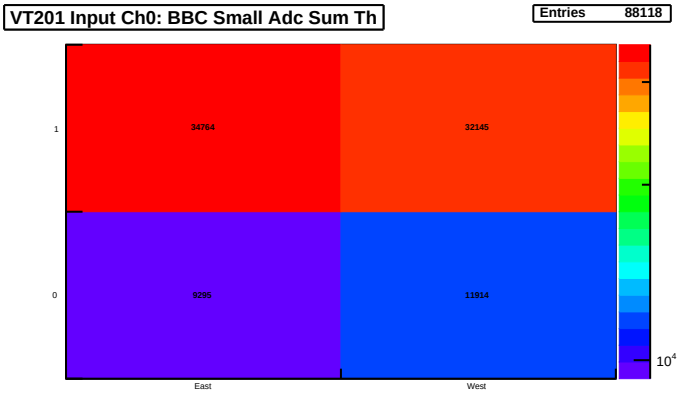

zdcWestTacVsSimu
Entries 260
Data
Simu

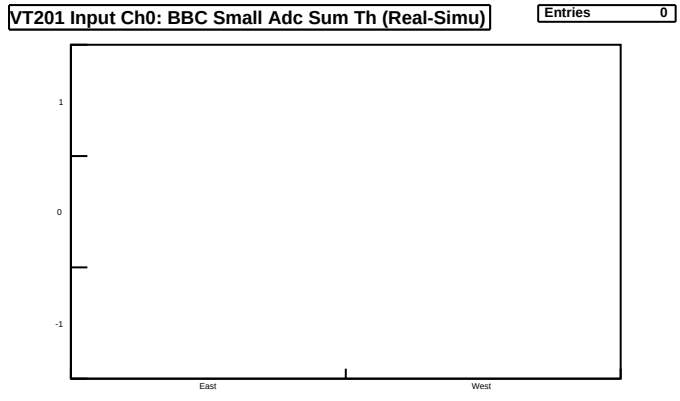

zdcAdcSum
Entries 528708
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

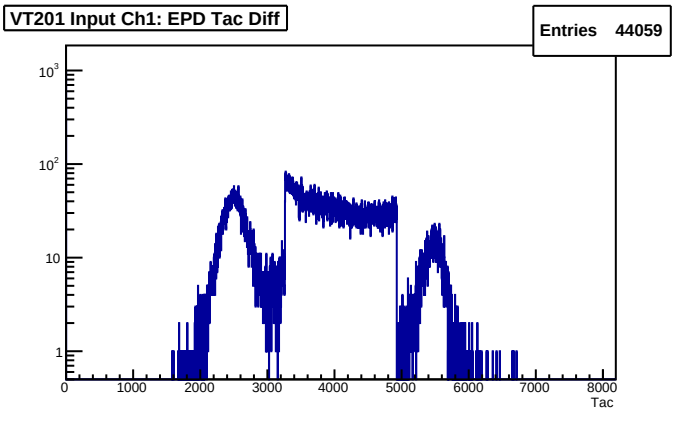

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

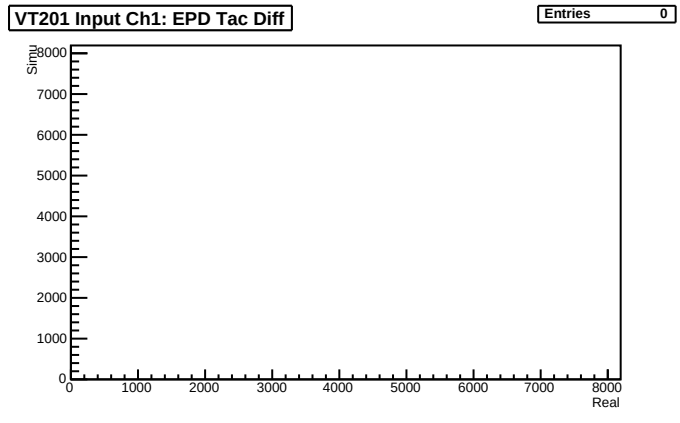

VT201 Input Ch0: BBC Small Tac Diff
Entries 44059
Tac

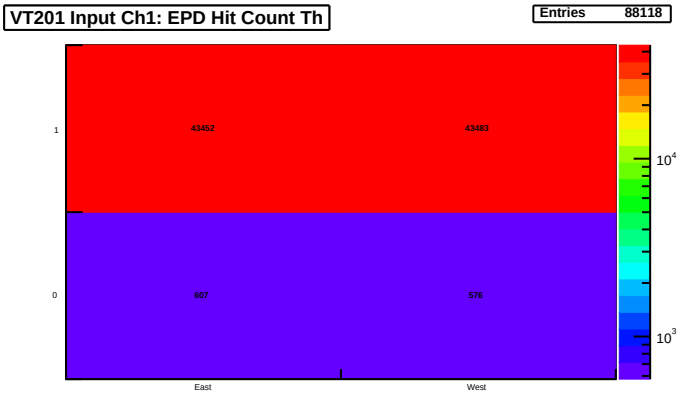

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

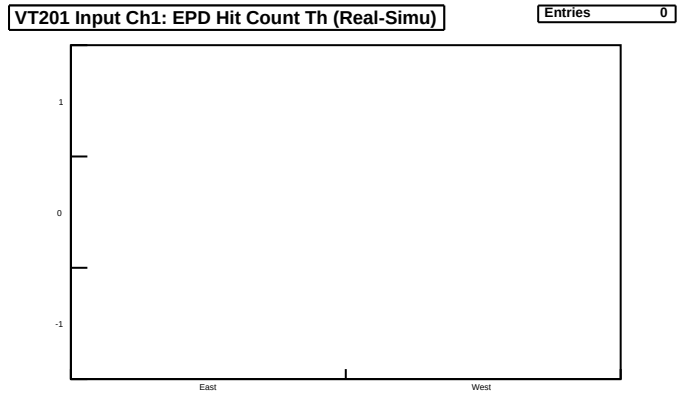

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 88118
34764
32145
9295
11914
East
West

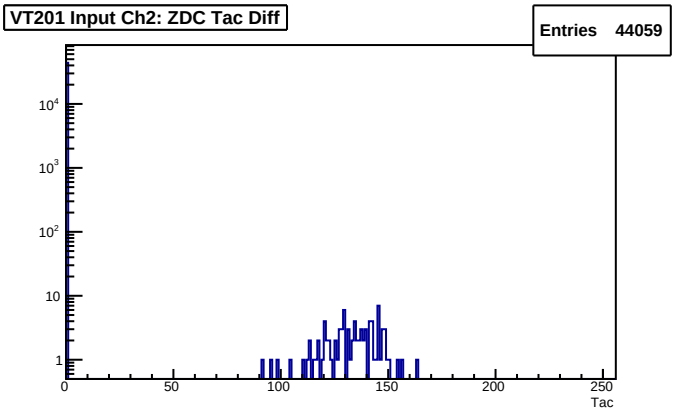

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

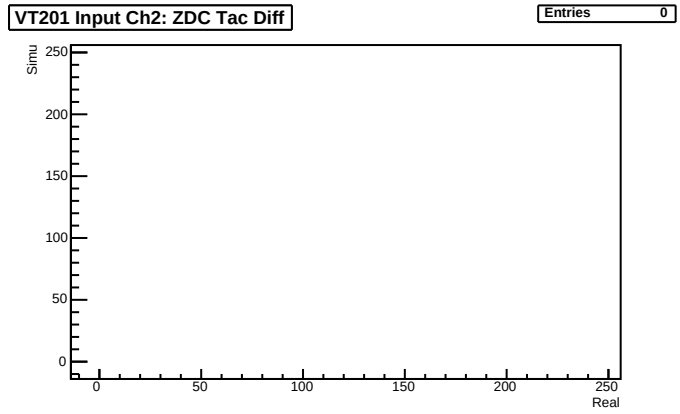

VT201 Input Ch1: EPD Tac Diff
Entries 44059
Tac

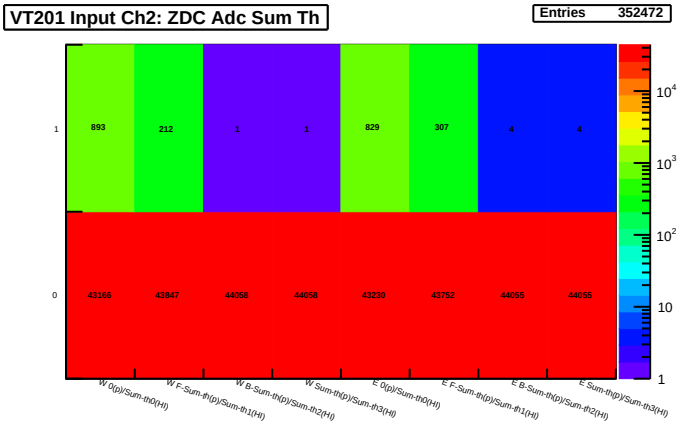

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

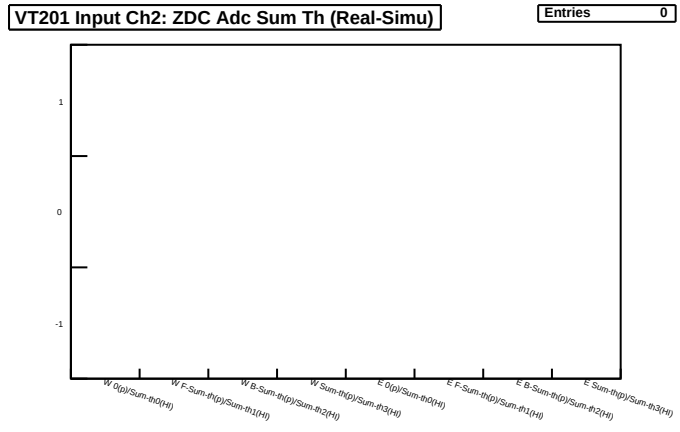

VT201 Input Ch1: EPD Hit Count Th
Entries 88118
43452
43483
607
576
East
West

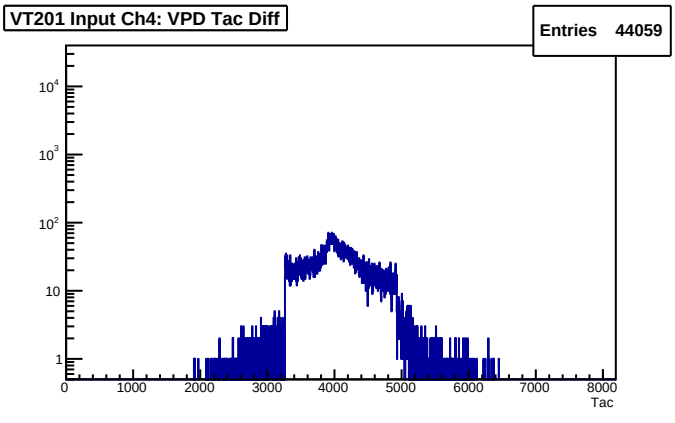

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

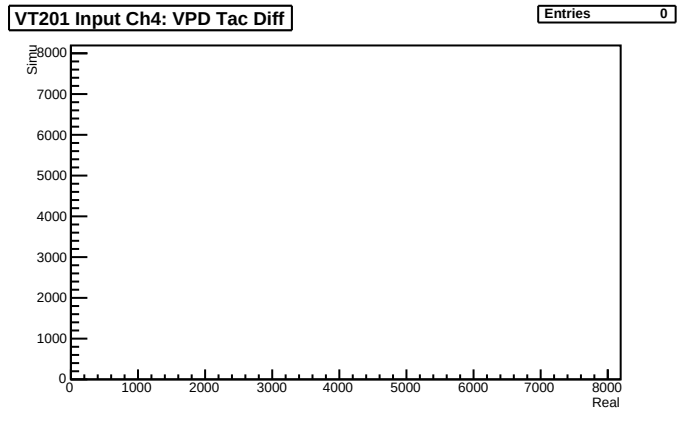

VT201 Input Ch2: ZDC Tac Diff
Entries 44059
Tac

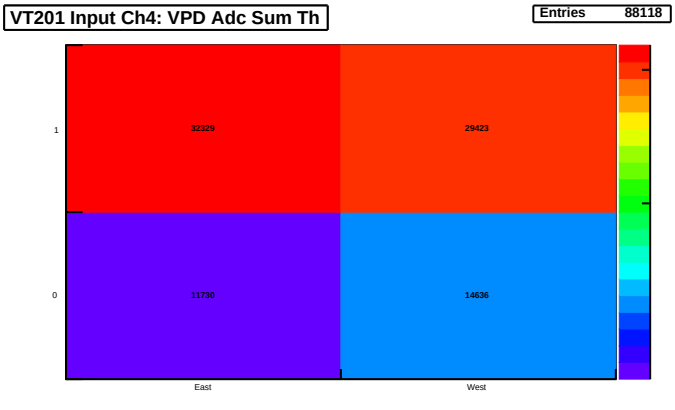

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

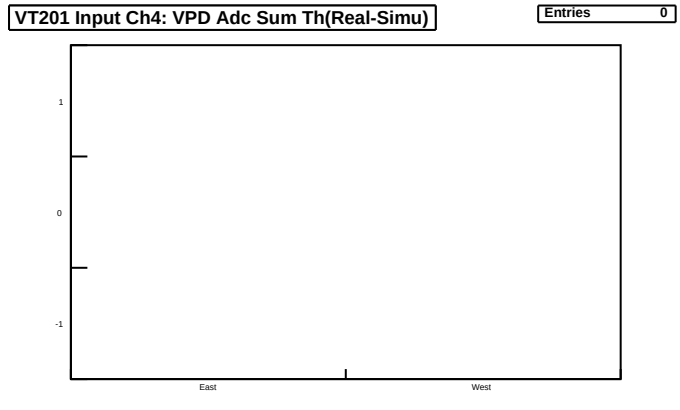

VT201 Input Ch2: ZDC Adc Sum Th
Entries 352472
893
212
1
1
829
307
4
4
43166
43847
44058
44058
43230
43752
44055
44055
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

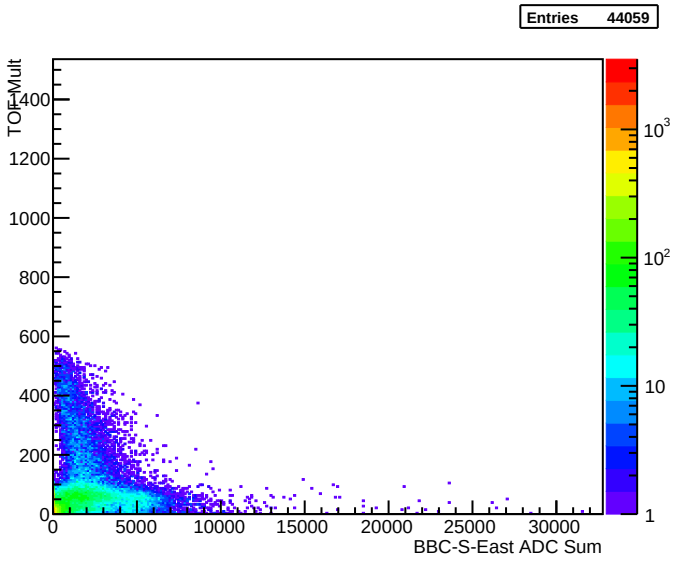

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

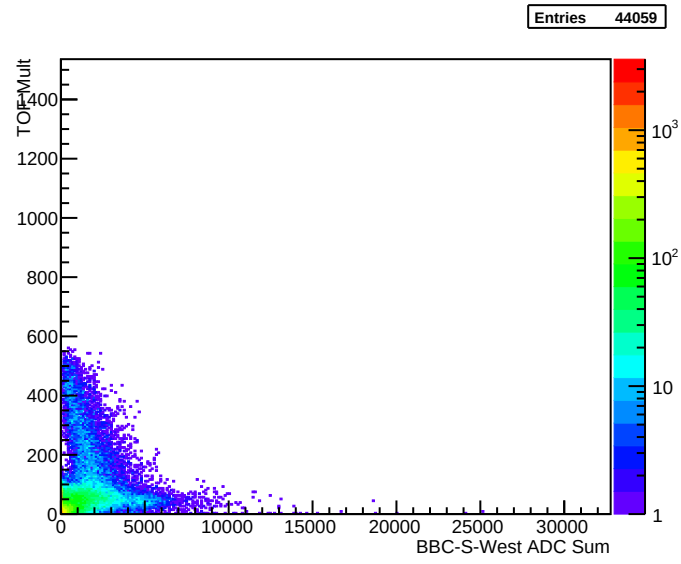

VT201 Input Ch4: VPD Tac Diff
Entries 44059
Tac

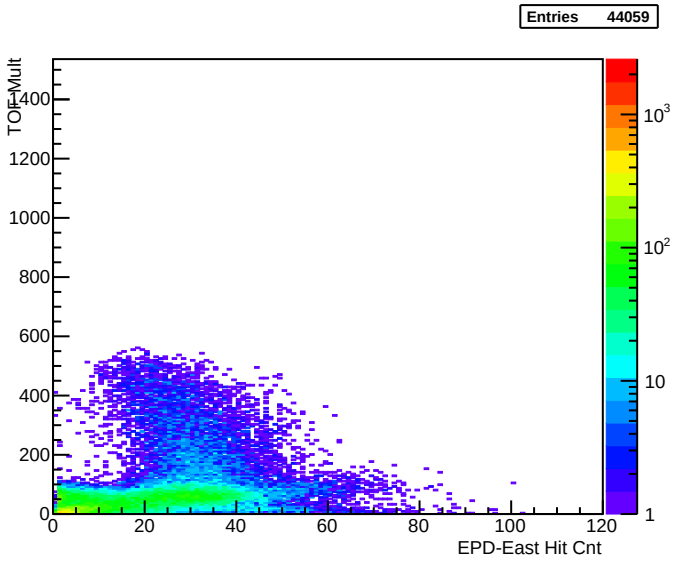

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

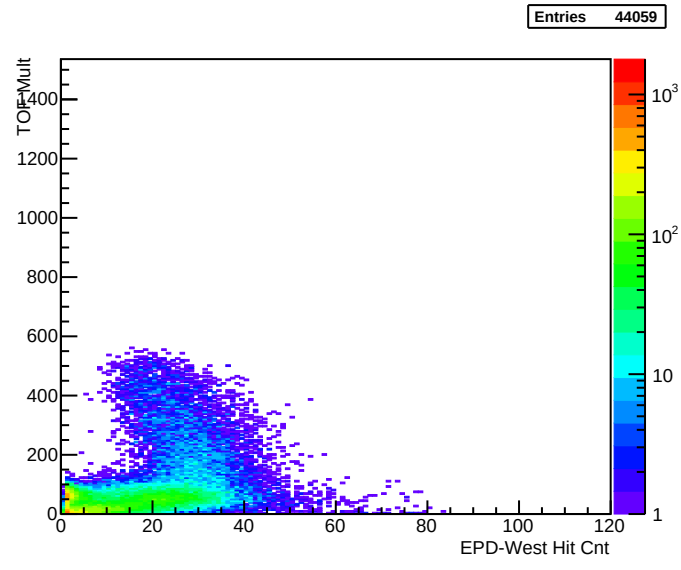

VT201 Input Ch4: VPD Adc Sum Th
Entries 88118
32329
29423
11730
14636
East
West

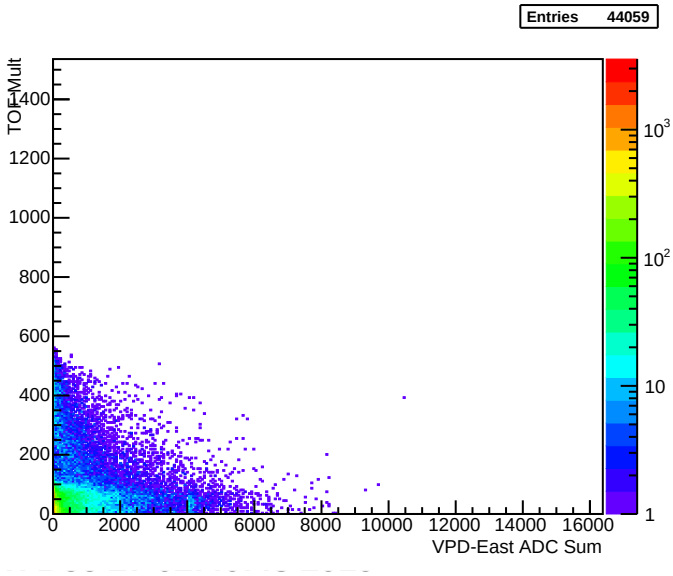

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

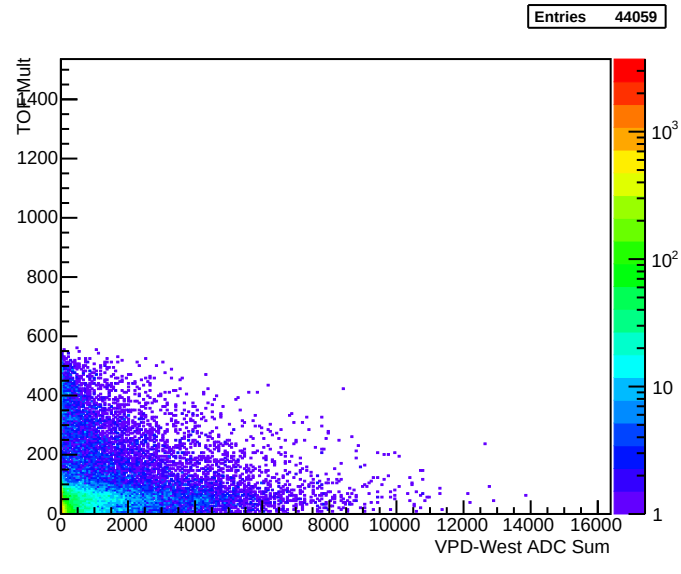

Entries 44059
TOF-Mult
BBC-S-East ADC Sum

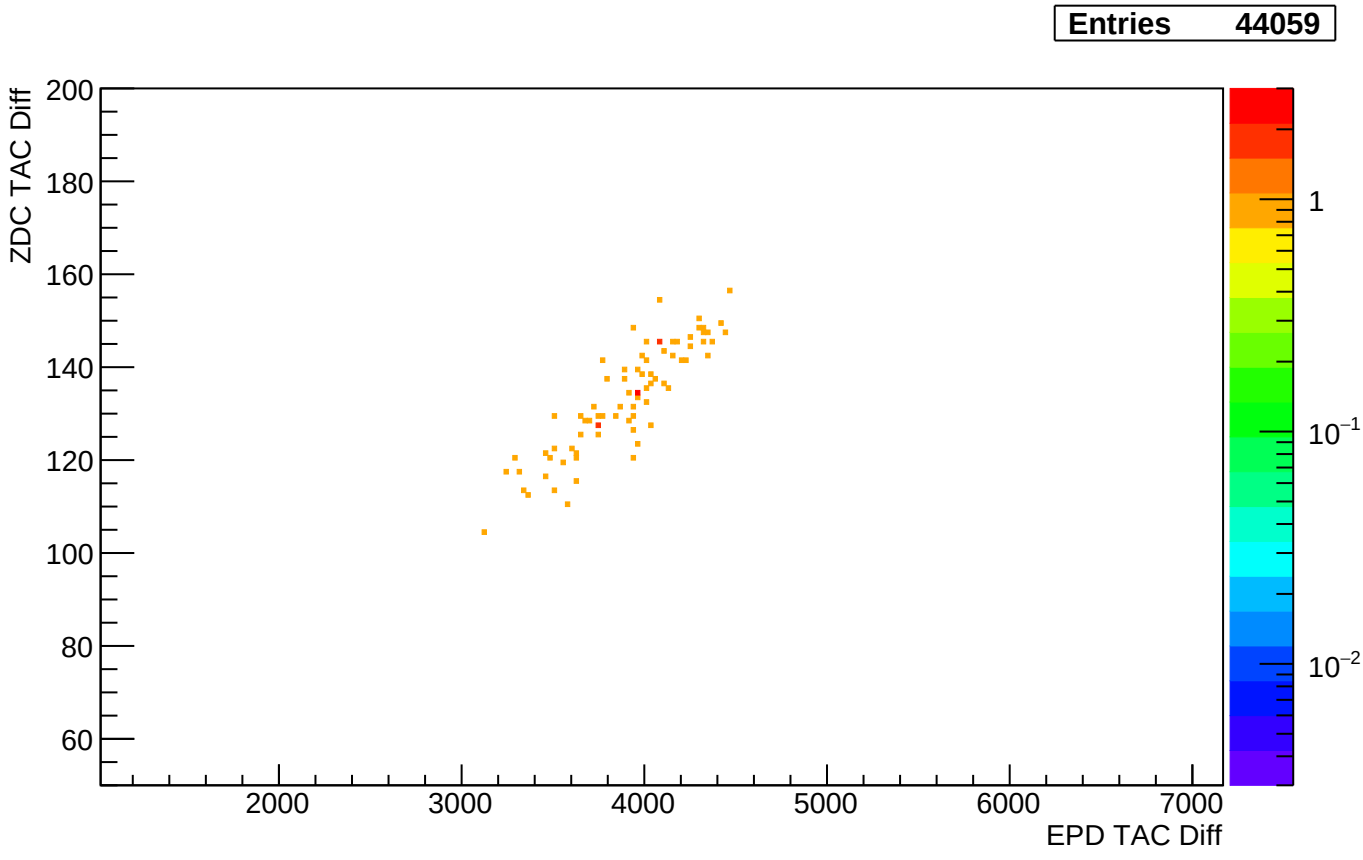

Entries 44059
TOF-Mult
BBC-S-West ADC Sum

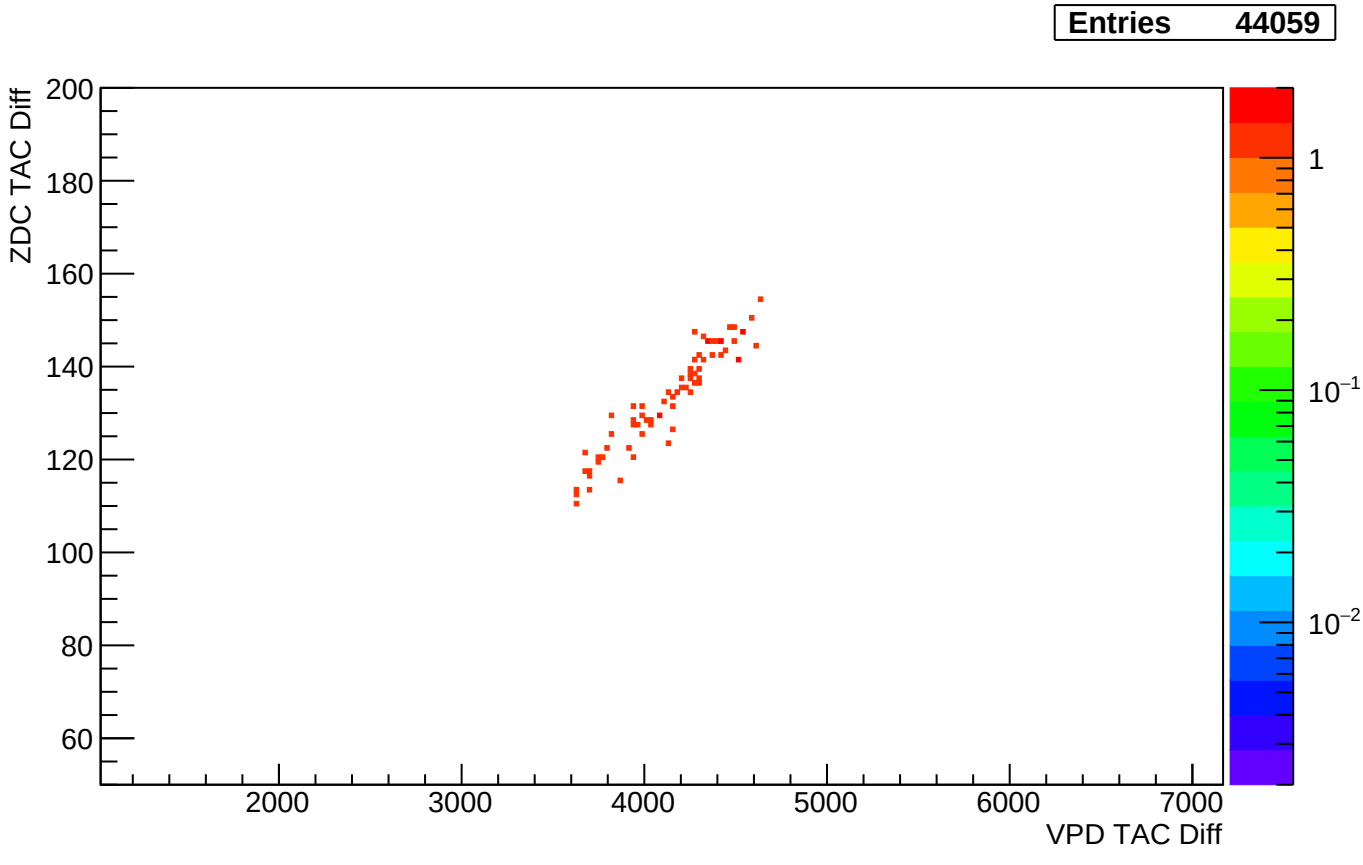

Entries 44059
TOF-Mult
EPD-East Hit Cnt

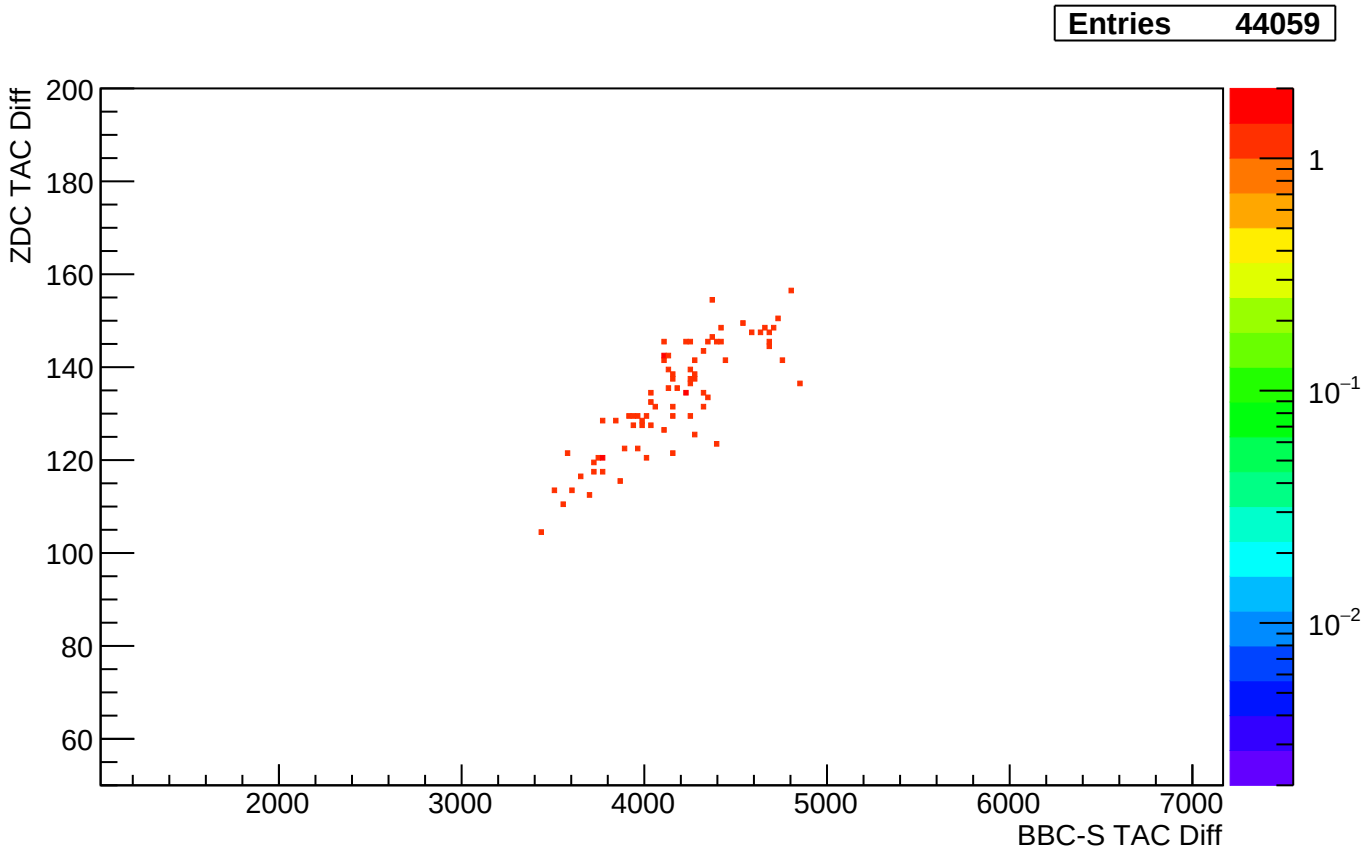

Entries 44059
TOF-Mult
EPD-West Hit Cnt

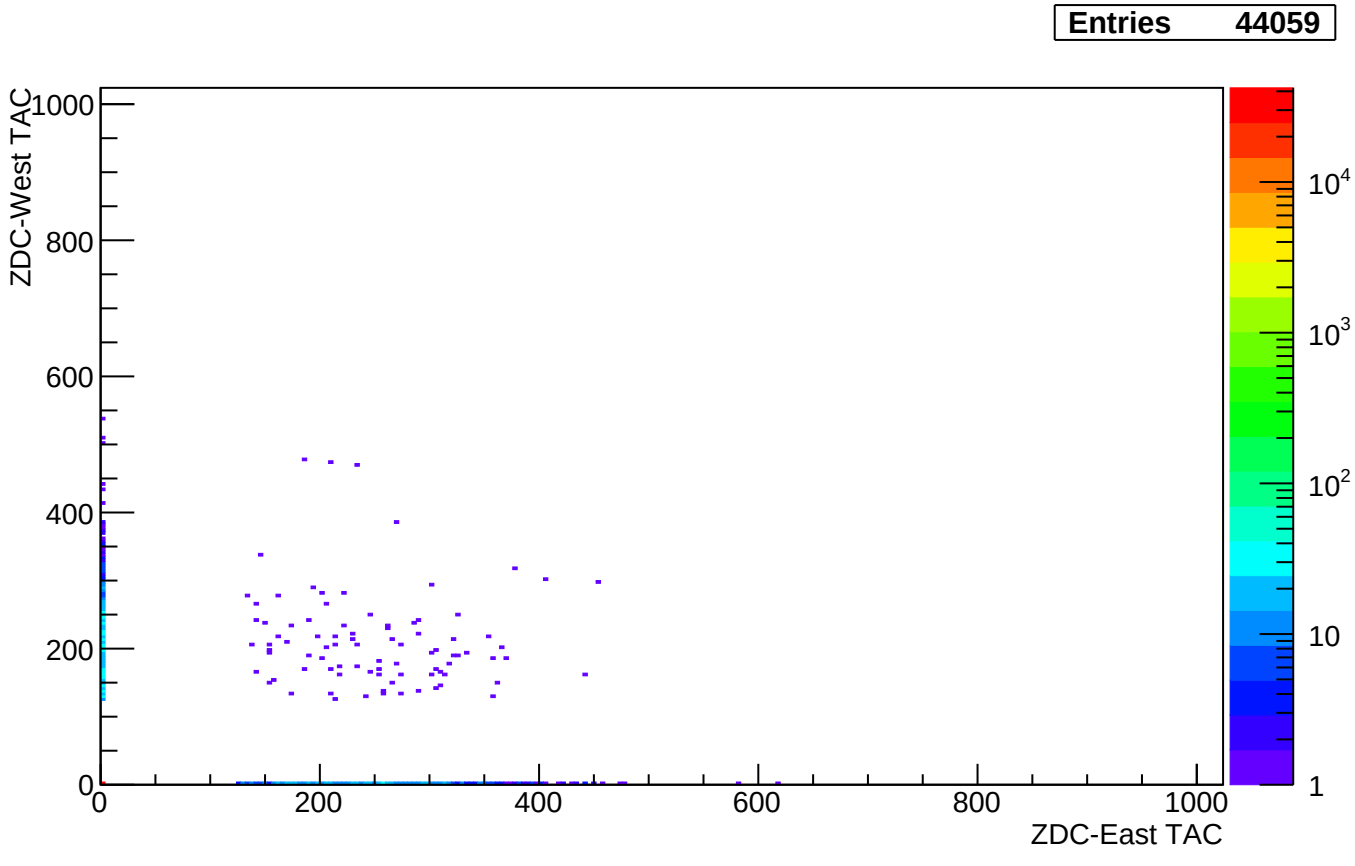

Entries 44059
TOF-Mult
VPD-East ADC Sum

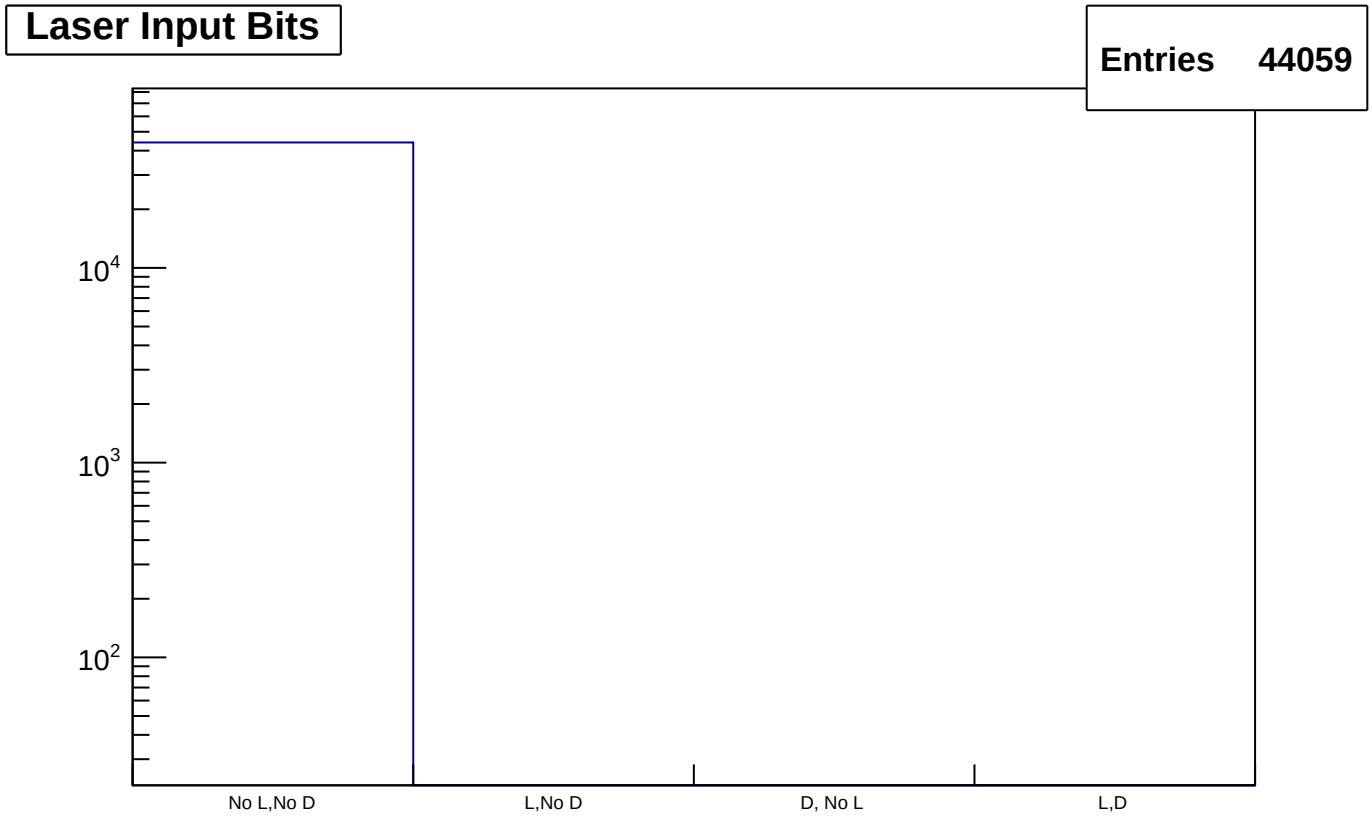

Entries 44059
TOF-Mult
VPD-West ADC Sum

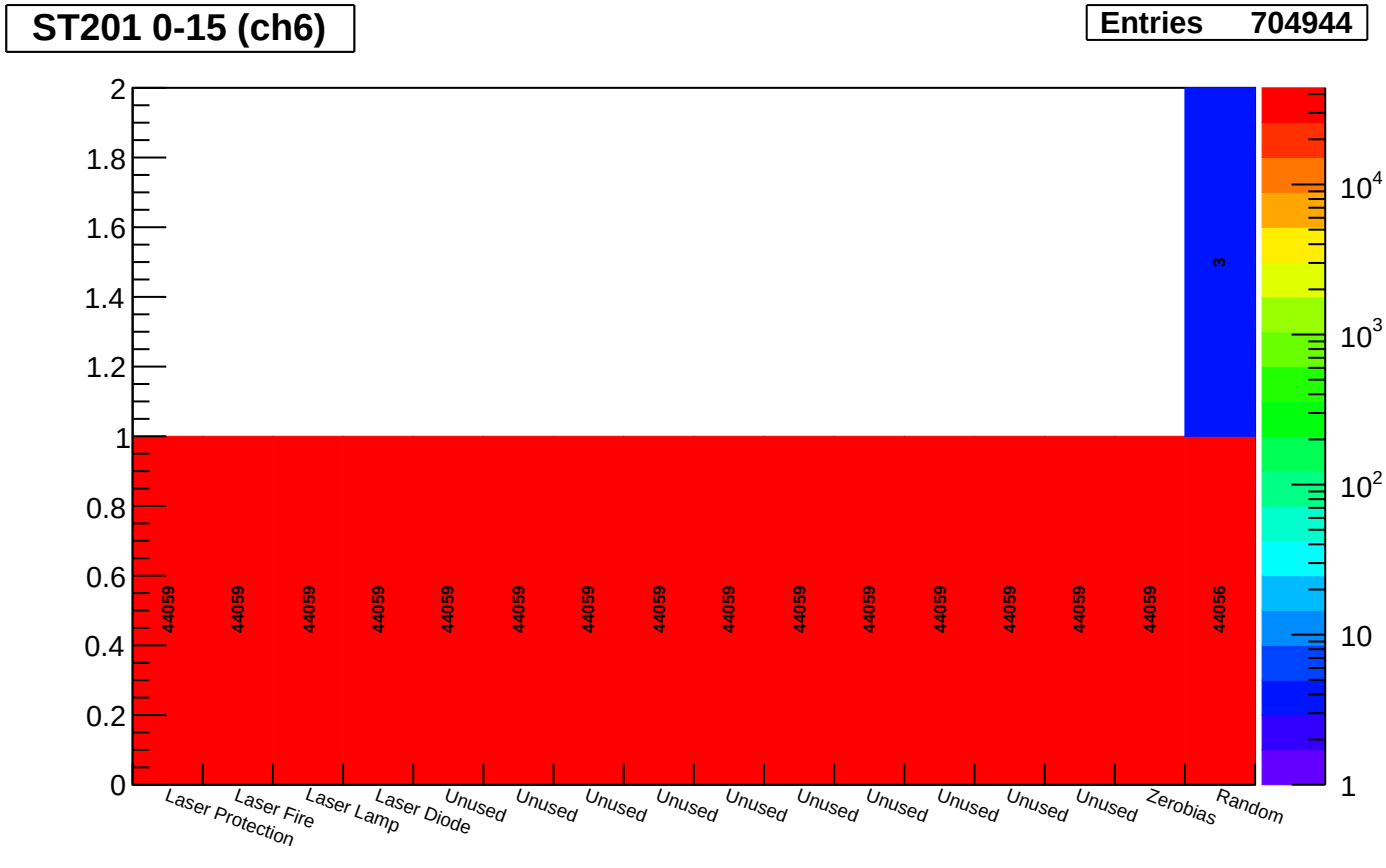

Entries 44059
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

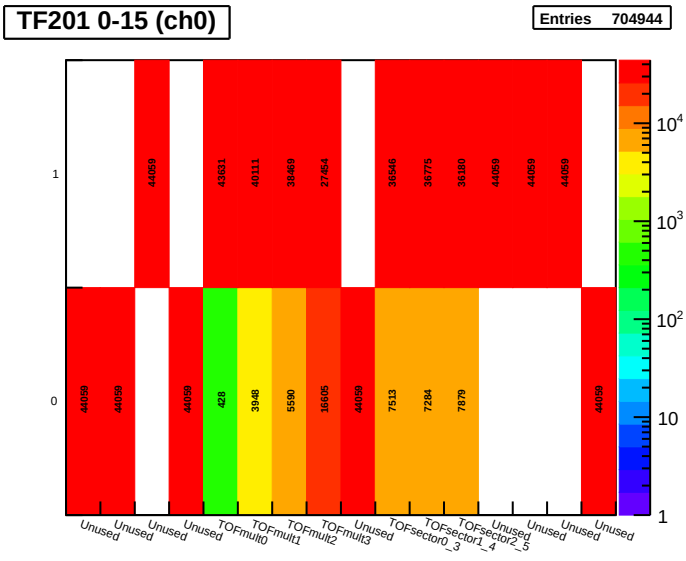

Entries 44059
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

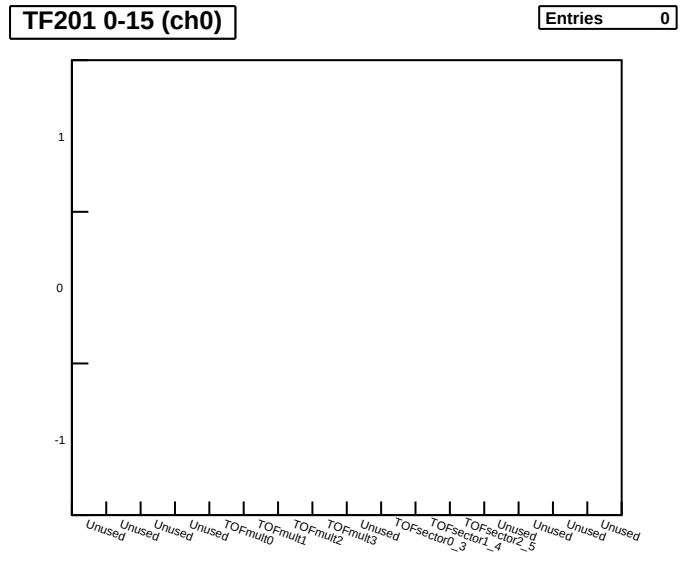

Entries 44059
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

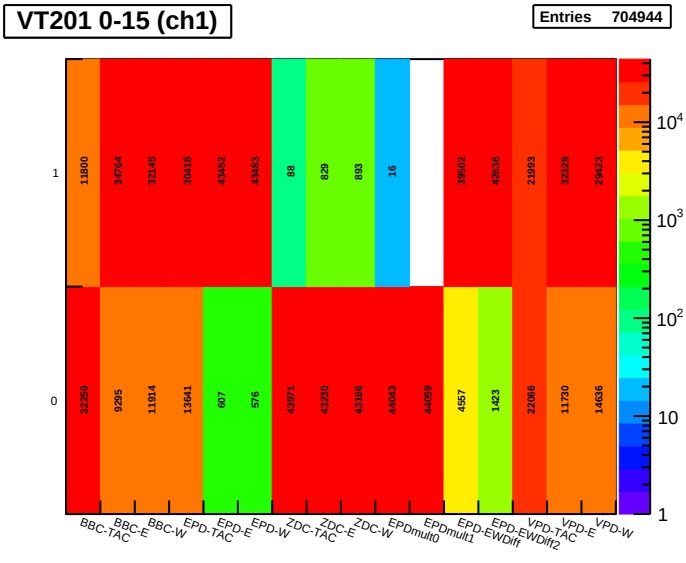

Entries 44059
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

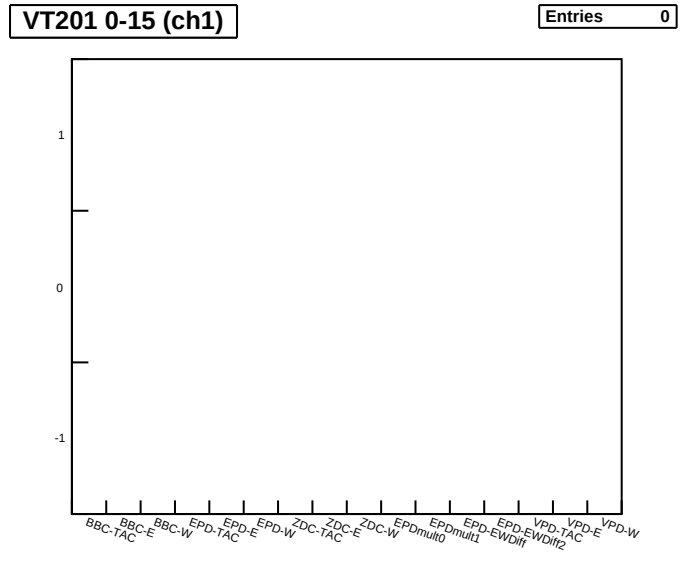

Laser Input Bits
Entries 44059
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

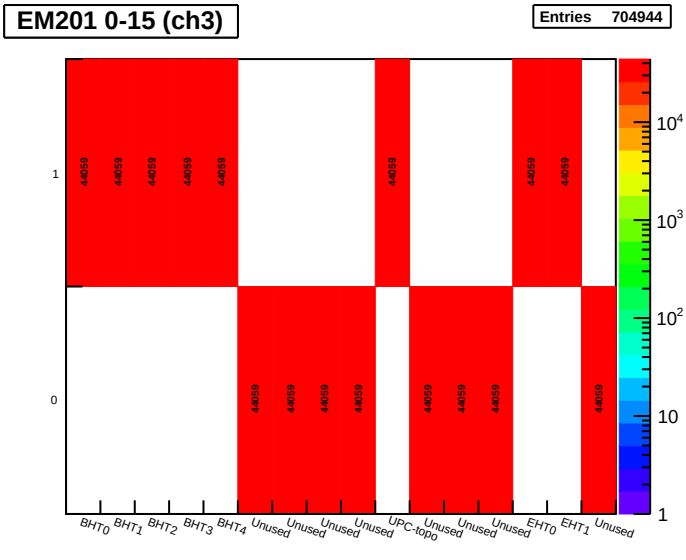

ST201 0-15 (ch6)
Entries 704944
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
44059
44059
44059
44059
44059
44059
44059
44059
44059
44059
44059
44059
44059
44059
44059
44056
3
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random

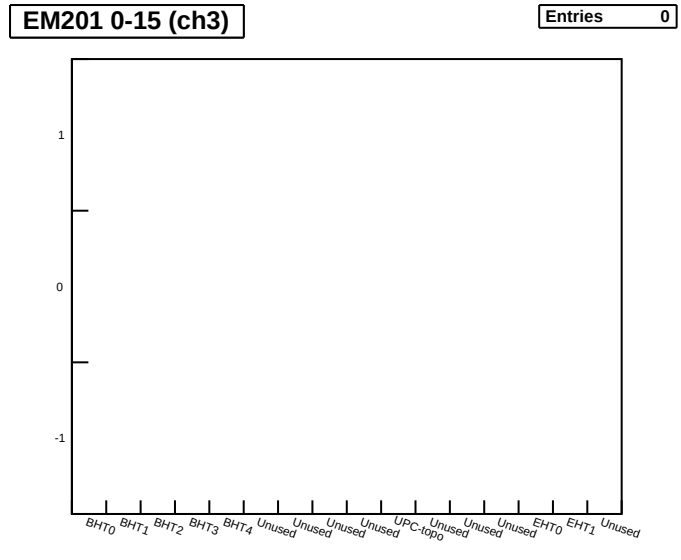

TF201 0-15 (ch0)
Entries 704944
1
0
44059 43631 40111 38469 27454 36546 36775 36180 44059 44059 44059
44059 44059 44059 428 3948 5590 16605 44059 7513 7284 7879 44059
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^4
10^3
10^2
10
1


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


VT201 0-15 (ch1)
Entries 704944
1
0
11800 34764 32145 30418 43452 43483 88 829 893 16 35602 42636 21993 32329 29423
32259 9295 11914 13641 607 576 43871 43230 43166 44043 44059 4557 1423 22066 11730 14636
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 704944
1
0
44059 44059 44059 44059 44059 44059 44059 44059
44059 44059 44059 44059 44059 44059 44059 44059
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^4
10^3
10^2
10
1


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