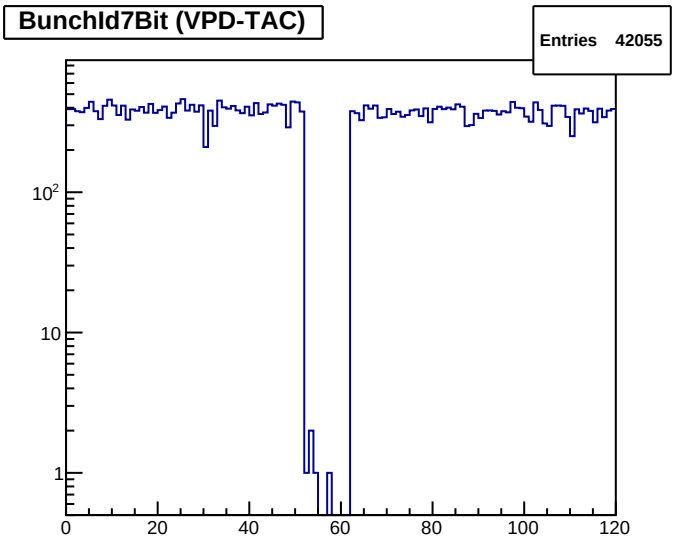
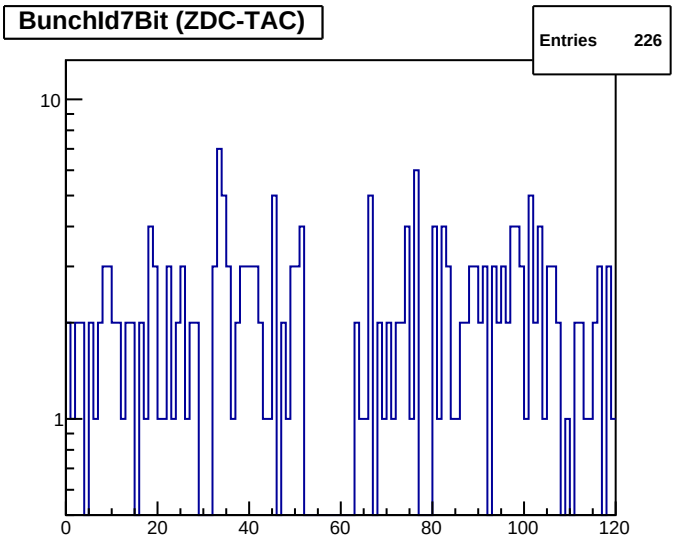
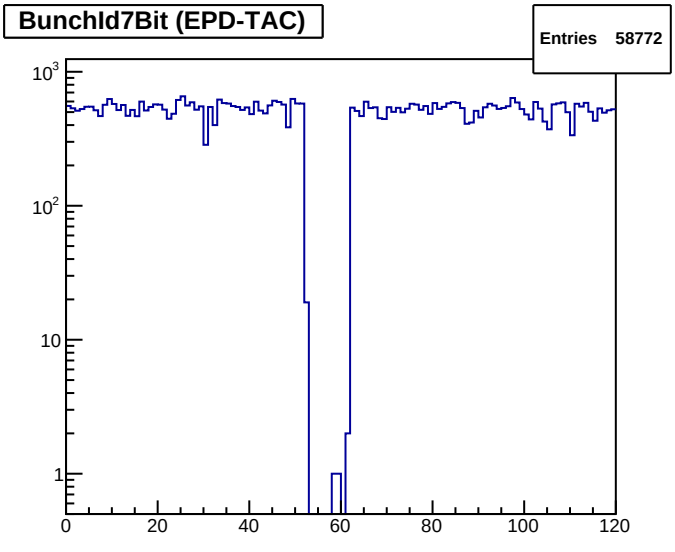
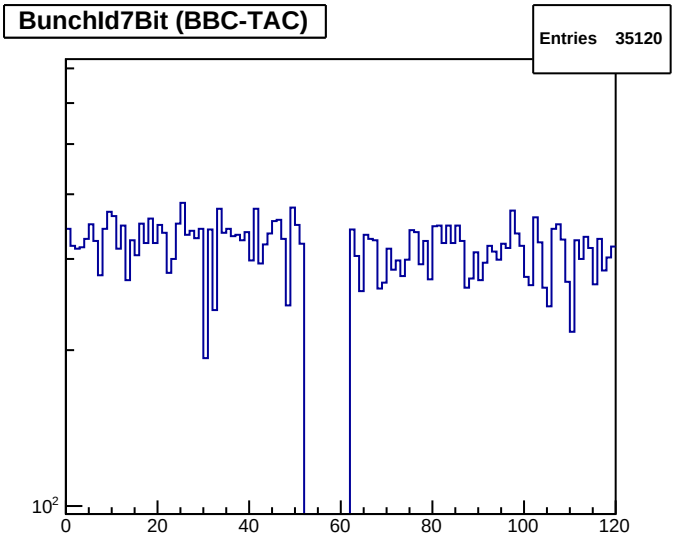
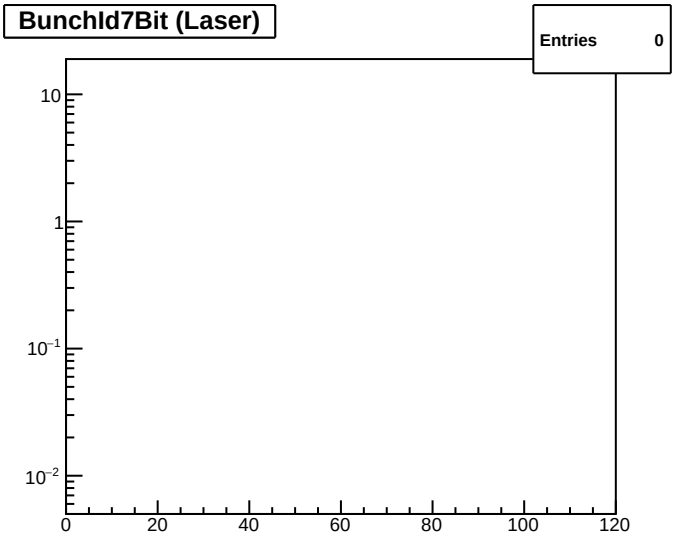
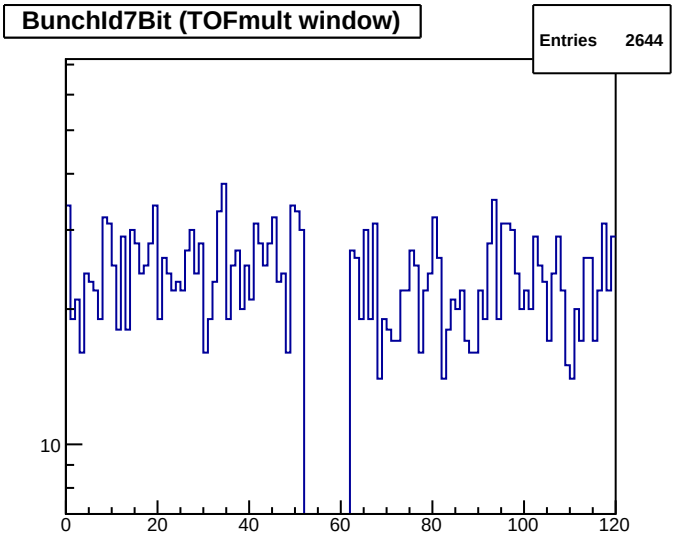

BunchId7Bit (VPD-TAC)
Entries 42055
$10^2$
10
1
0
20
40
60
80
100
120

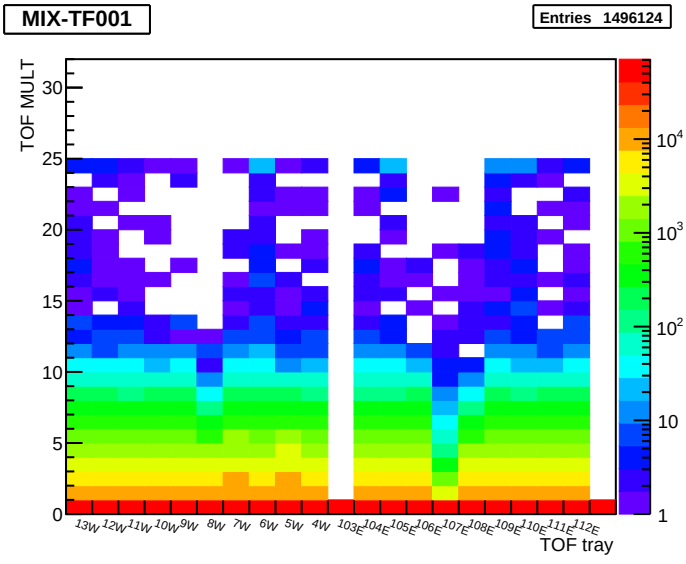

BunchId7Bit (ZDC-TAC)
Entries 226
10
1
0
20
40
60
80
100
120

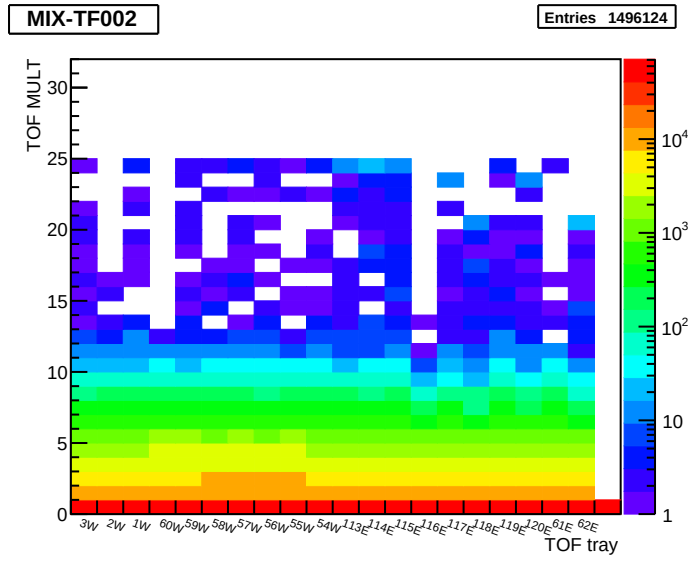

BunchId7Bit (EPD-TAC)
Entries 58772
$10^3$
$10^2$
10
1
0
20
40
60
80
100
120

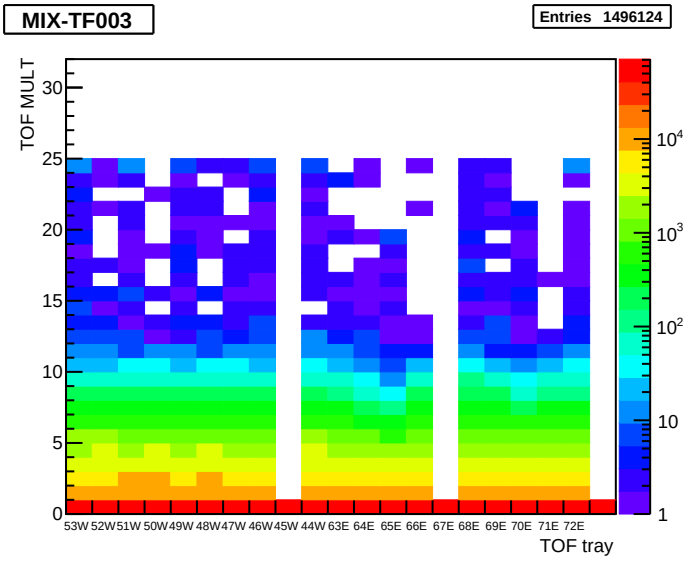

BunchId7Bit (BBC-TAC)
Entries 35120
$10^2$
0
20
40
60
80
100
120

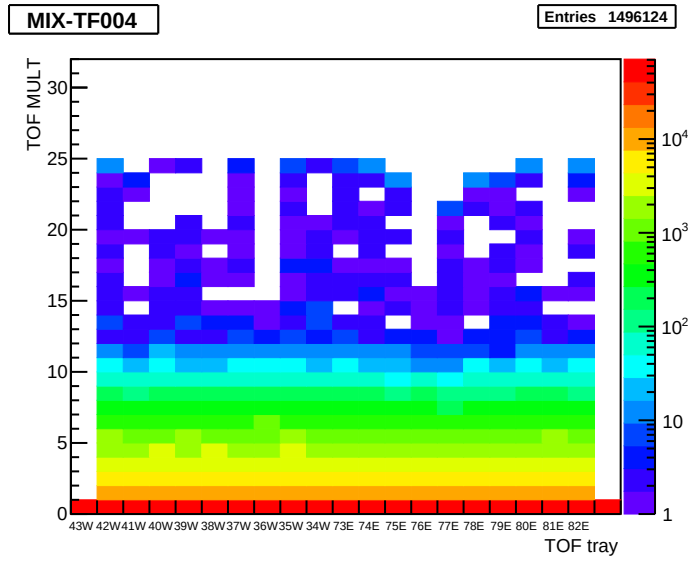

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

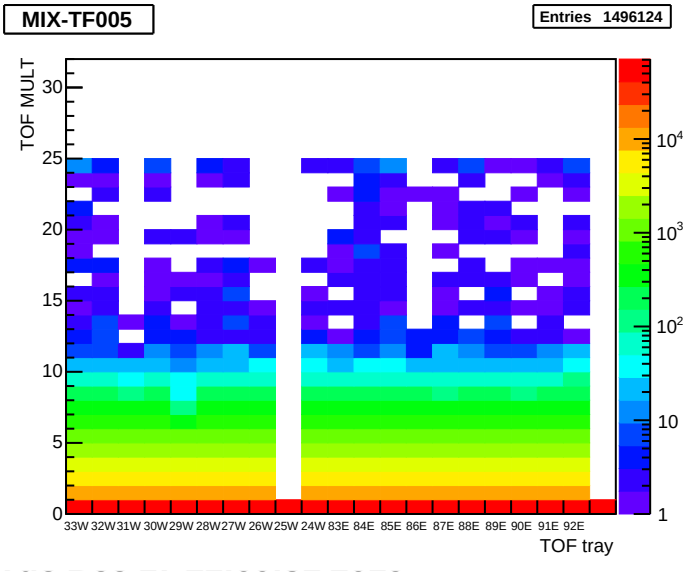

BunchId7Bit (TOFmult window)
Entries 2644
10
0
20
40
60
80
100
120

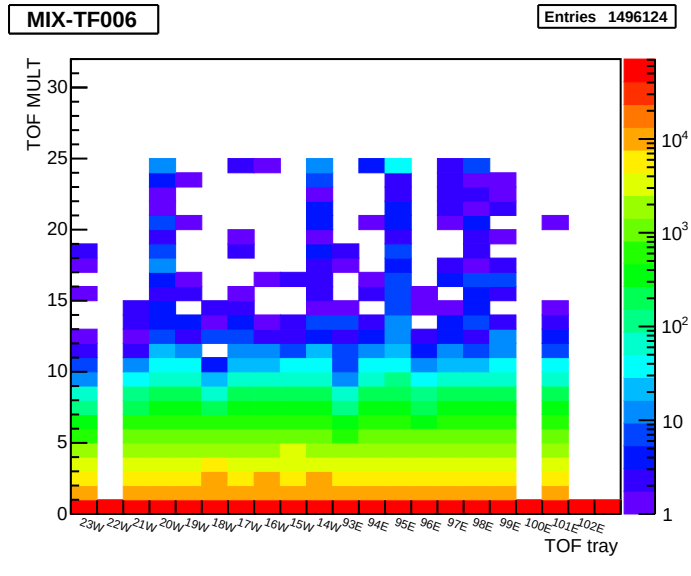

MIX-TF001
Entries 1496124
TOF MULT
TOF tray

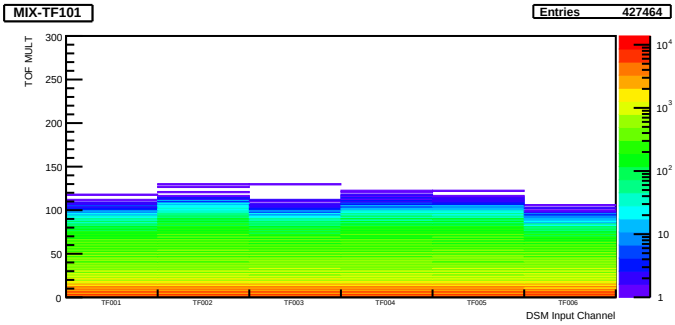

MIX-TF002
Entries 1496124
TOF MULT
TOF tray

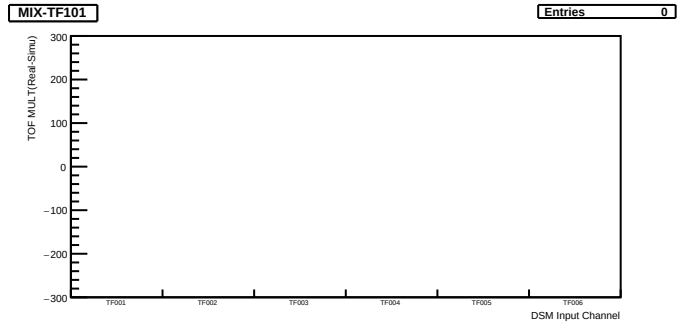

MIX-TF003
Entries 1496124
TOF MULT
TOF tray

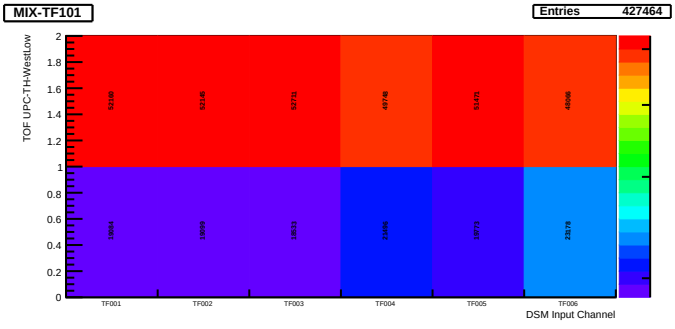

MIX-TF004
Entries 1496124
TOF MULT
TOF tray

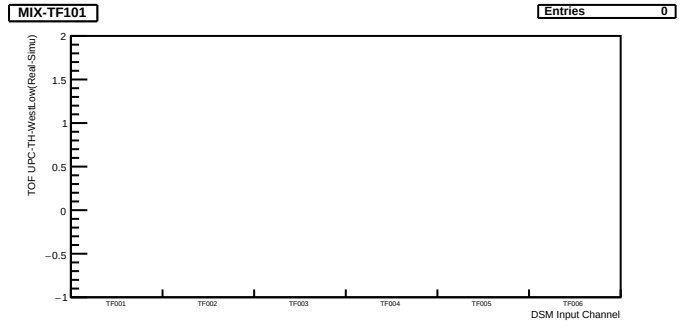

MIX-TF005
Entries 1496124
TOF MULT
TOF tray

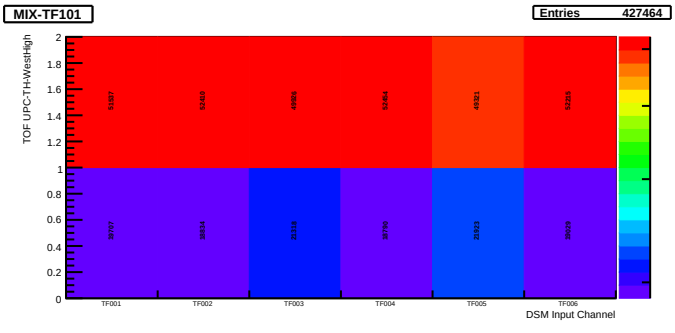

MIX-TF006
Entries 1496124
TOF MULT
TOF tray

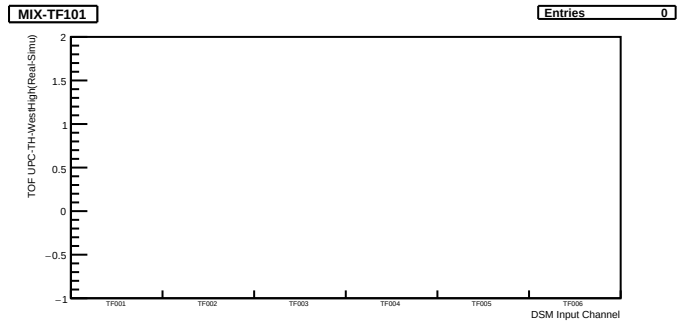

MIX-TF101
Entries 427464
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

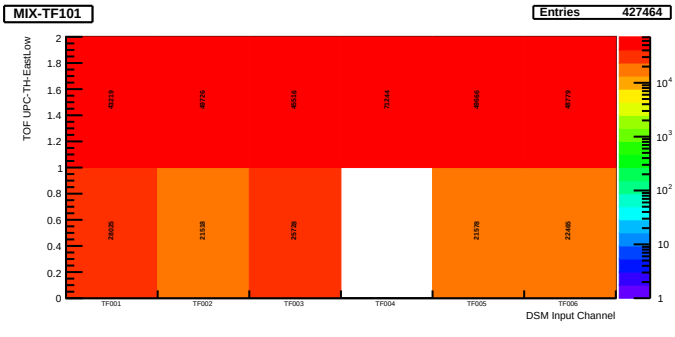

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

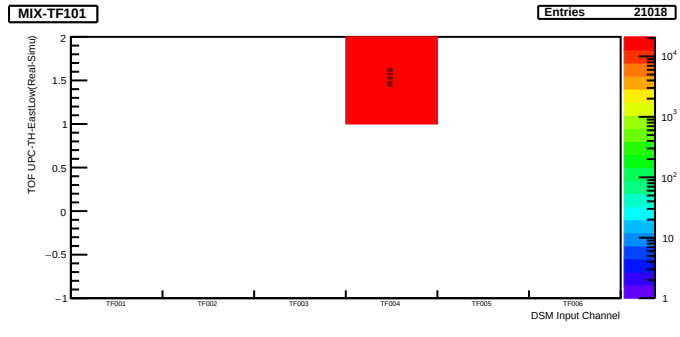

MIX-TF101
Entries 427464
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

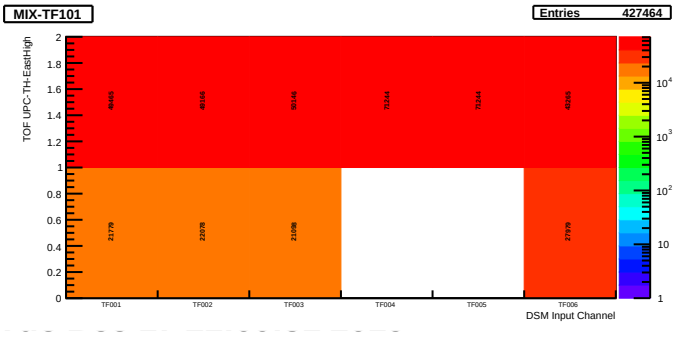

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

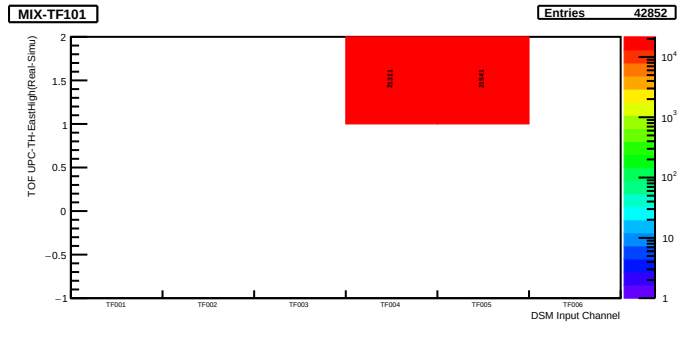

MIX-TF101
Entries 427464
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

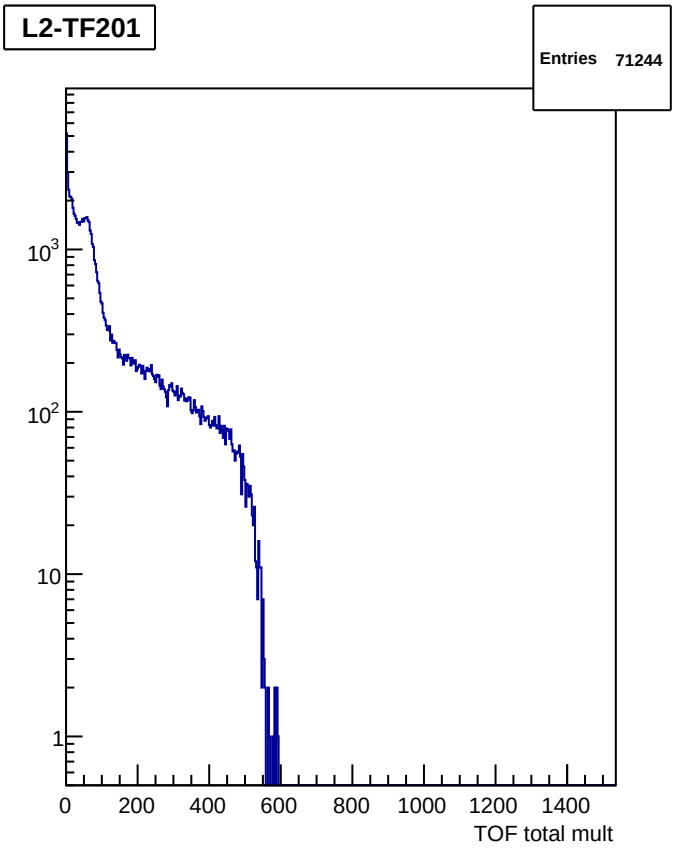

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

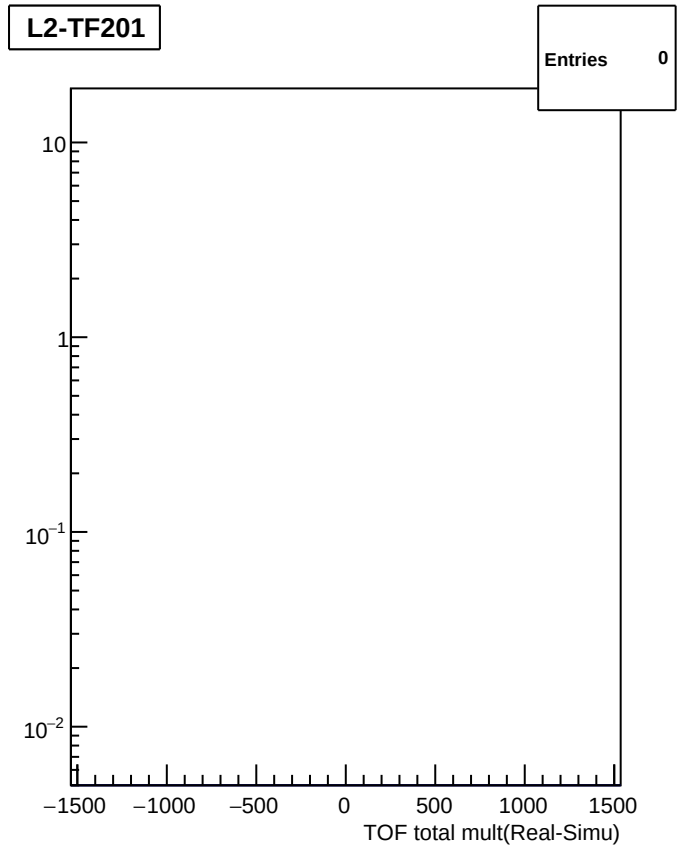

MIX-TF101
Entries 427464
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

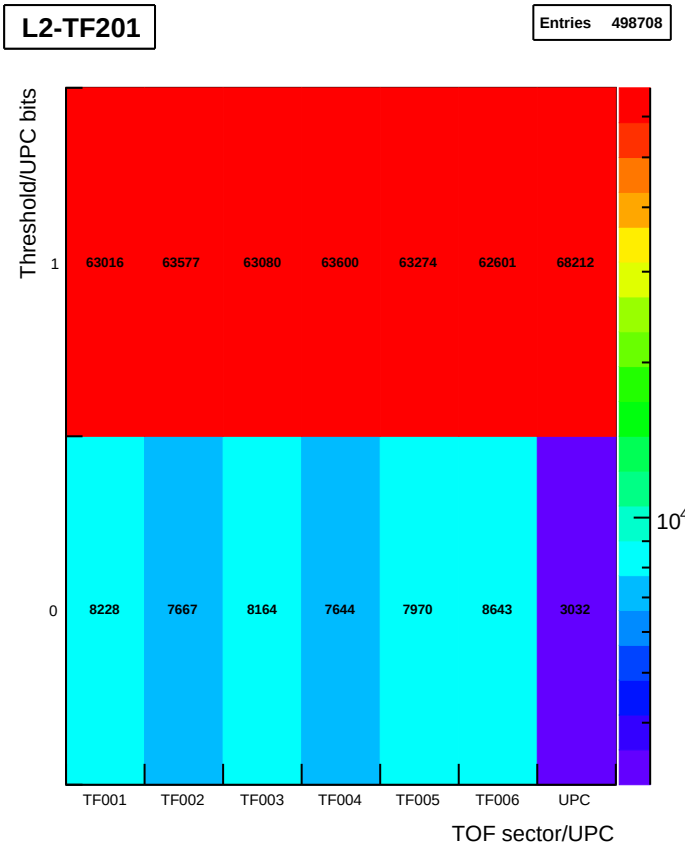

MIX-TF101
Entries 21018
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

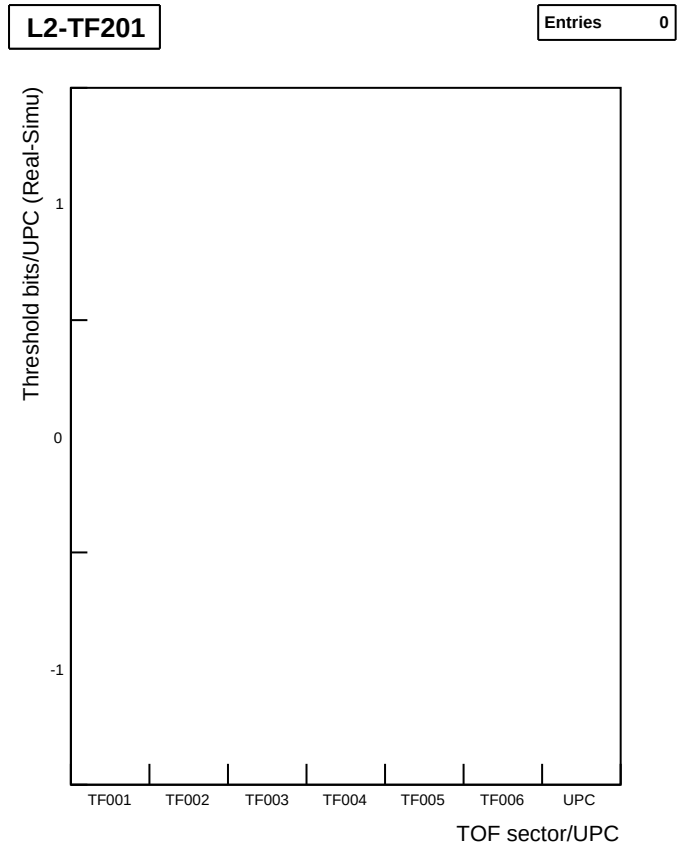

MIX-TF101
Entries 427464
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

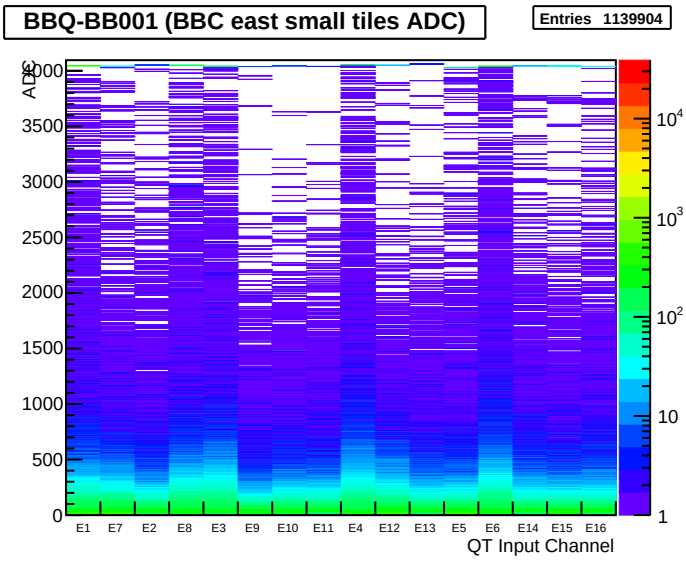

MIX-TF101
Entries 42852
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

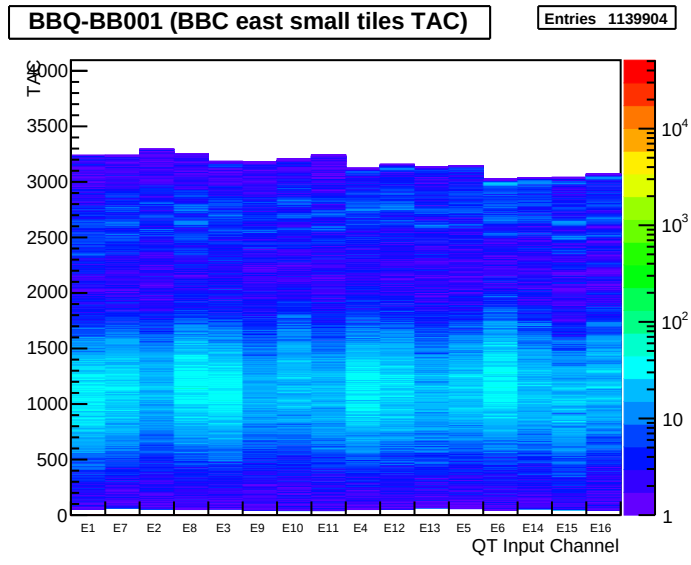

L2-TF201
Entries 71244
$10^3$
$10^2$
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

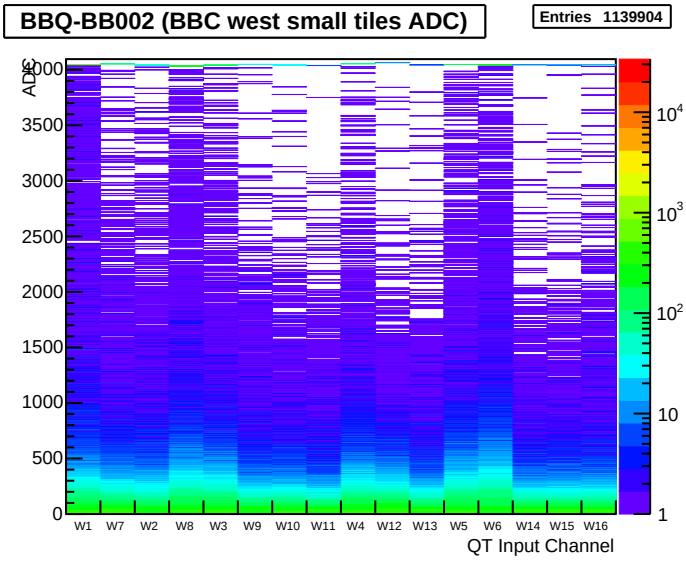

L2-TF201
Entries 0
10
1
$10^{-1}$
$10^{-2}$
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

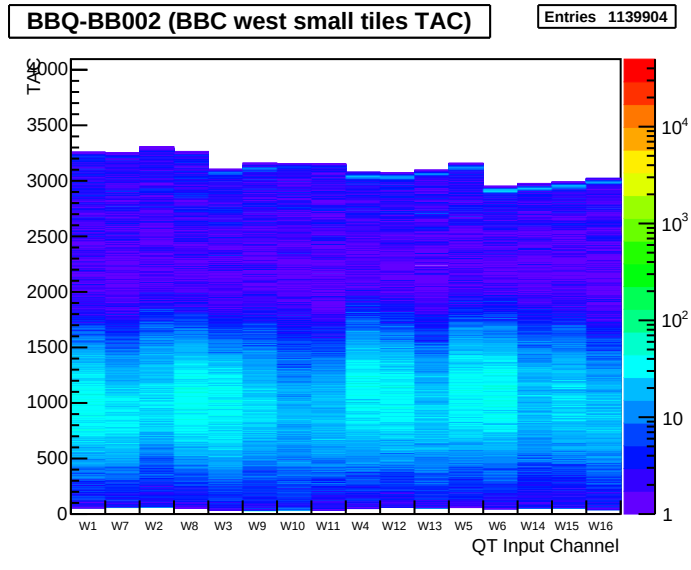

L2-TF201
Entries 498708
Threshold/UPC bits
1
0
63016
63577
63080
63600
63274
62601
68212
8228
7667
8164
7644
7970
8643
3032
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

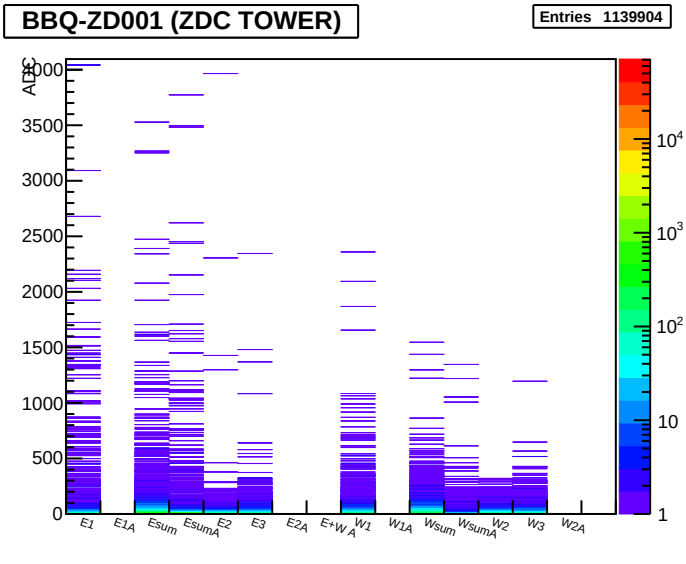

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

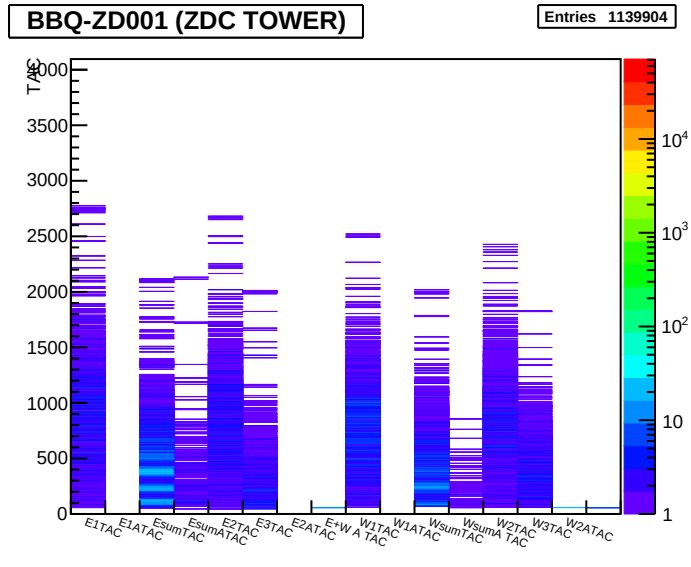

BBQ-BB001 (BBC east small tiles ADC)
Entries 1139904
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

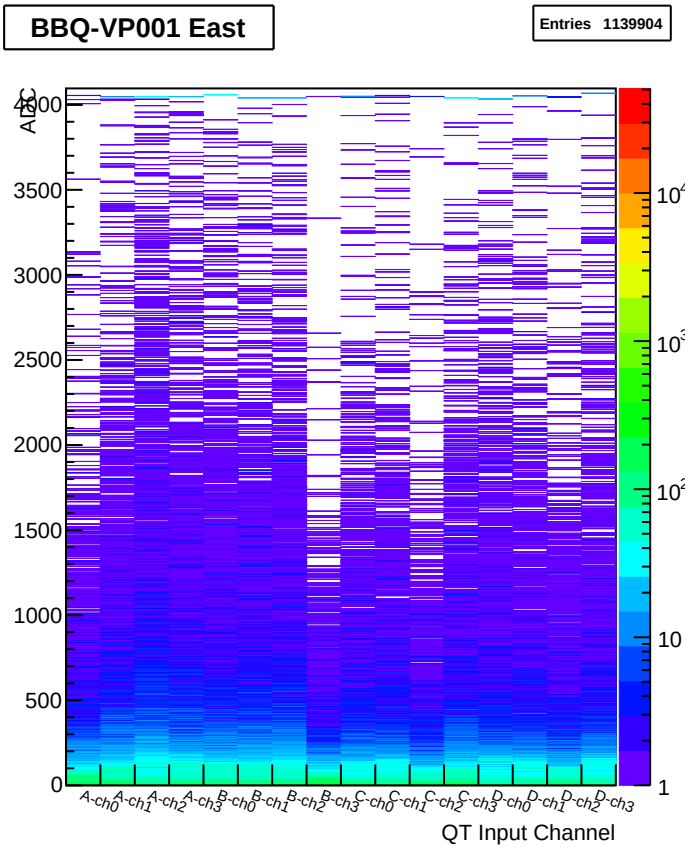

BBQ-BB001 (BBC east small tiles TAC)
Entries 1139904
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

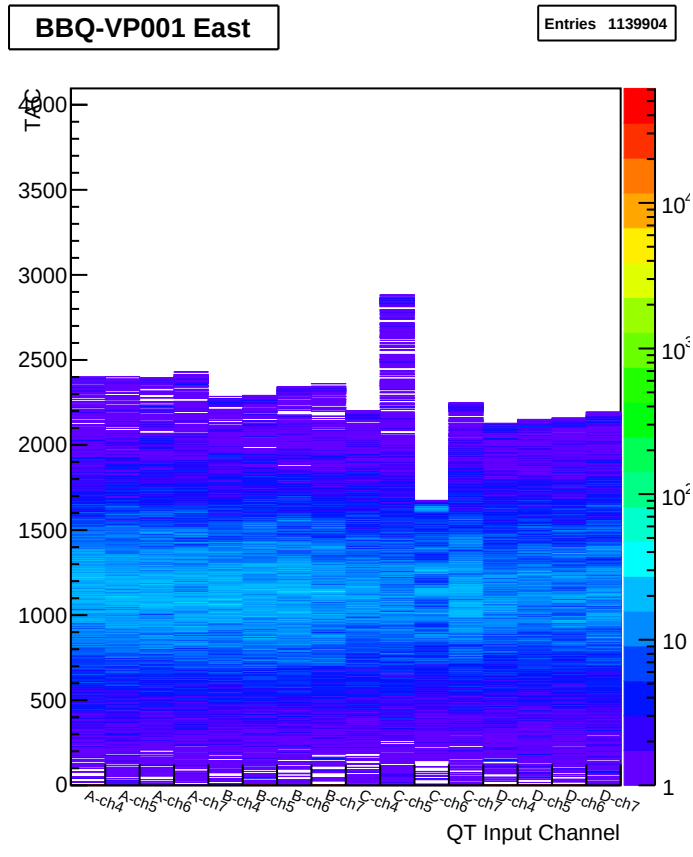

BBQ-BB002 (BBC west small tiles ADC)
Entries 1139904
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

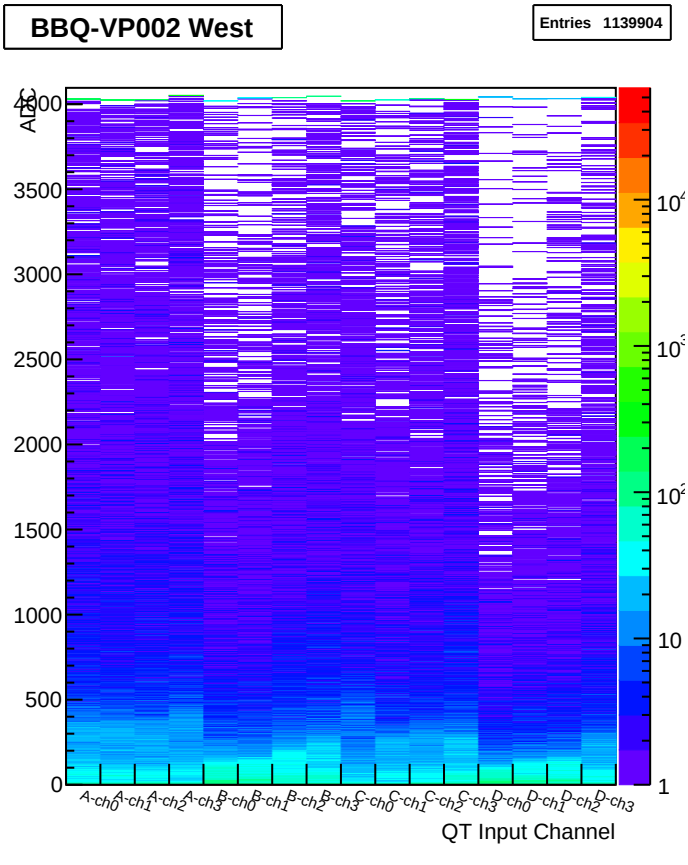

BBQ-BB002 (BBC west small tiles TAC)
Entries 1139904
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

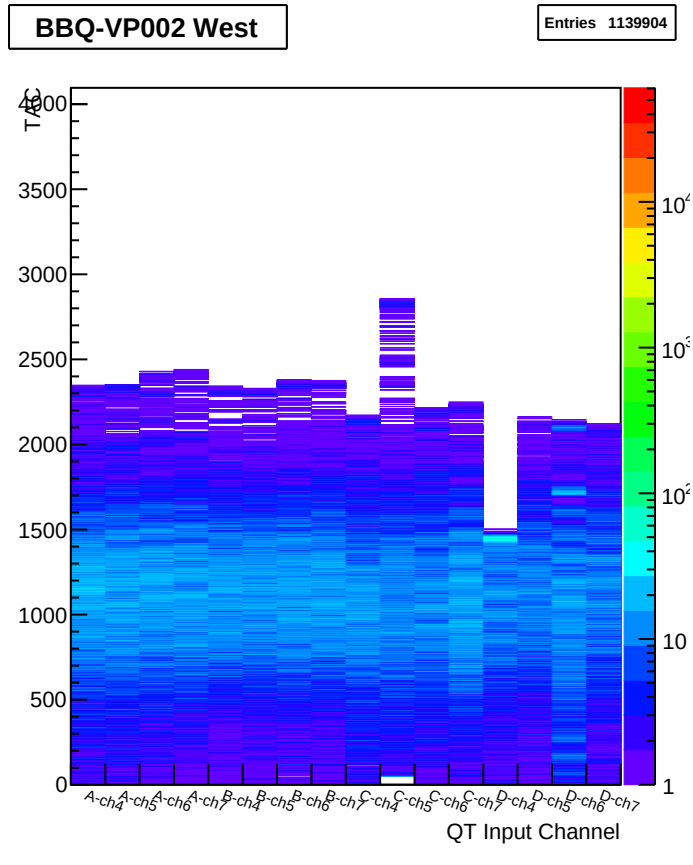

BBQ-ZD001 (ZDC TOWER)
Entries 1139904
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

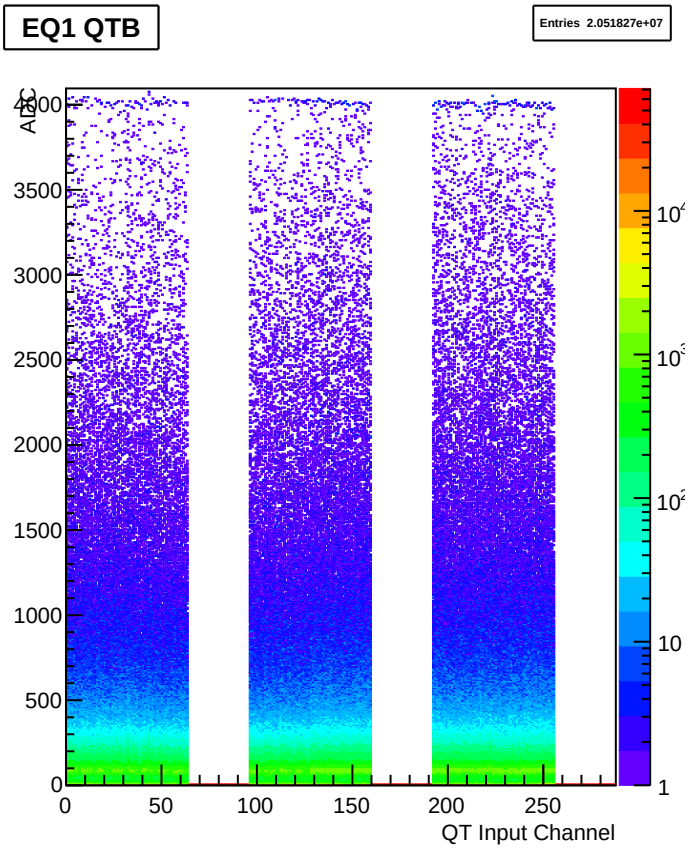

BBQ-ZD001 (ZDC TOWER)
Entries 1139904
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

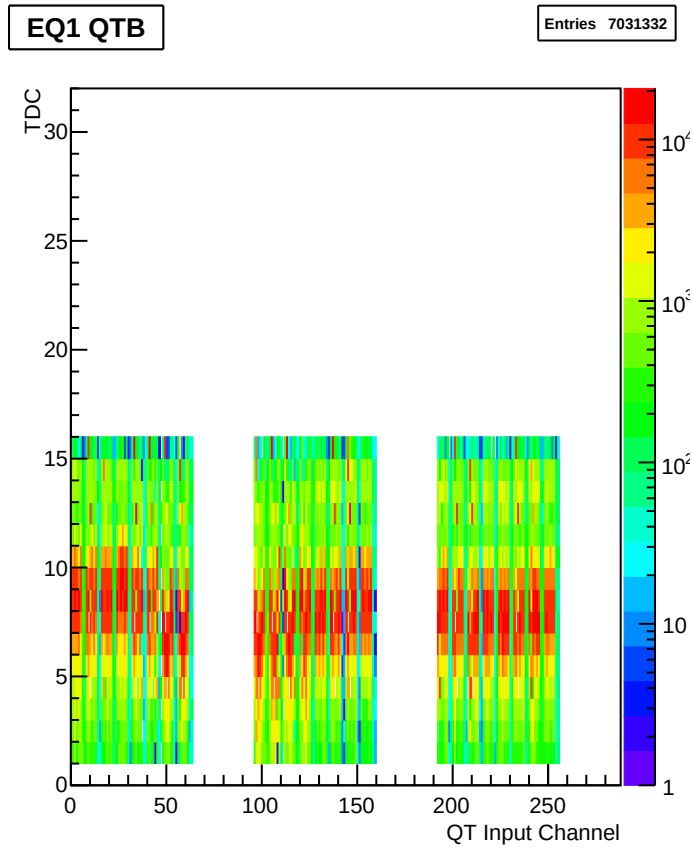

BBQ-VP001 East
Entries 1139904
ADC
QT Input Channel

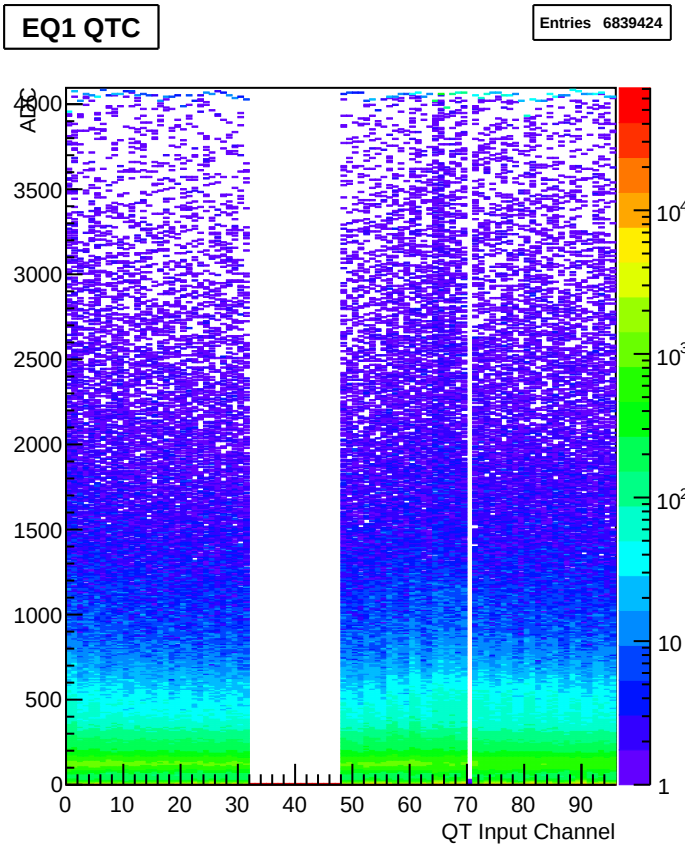

BBQ-VP001 East
Entries 1139904
TAC
QT Input Channel

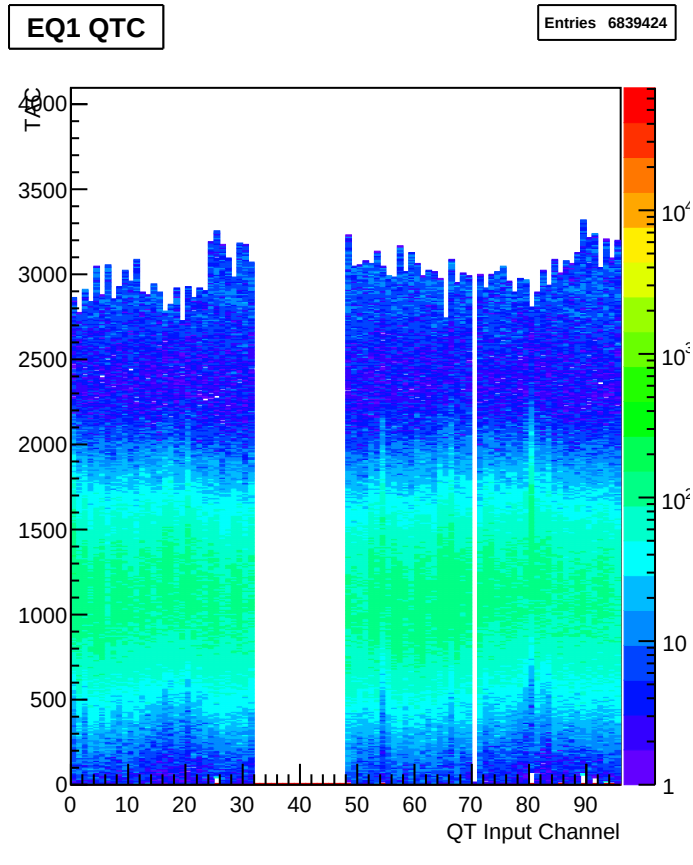

BBQ-VP002 West
Entries 1139904
ADC
QT Input Channel

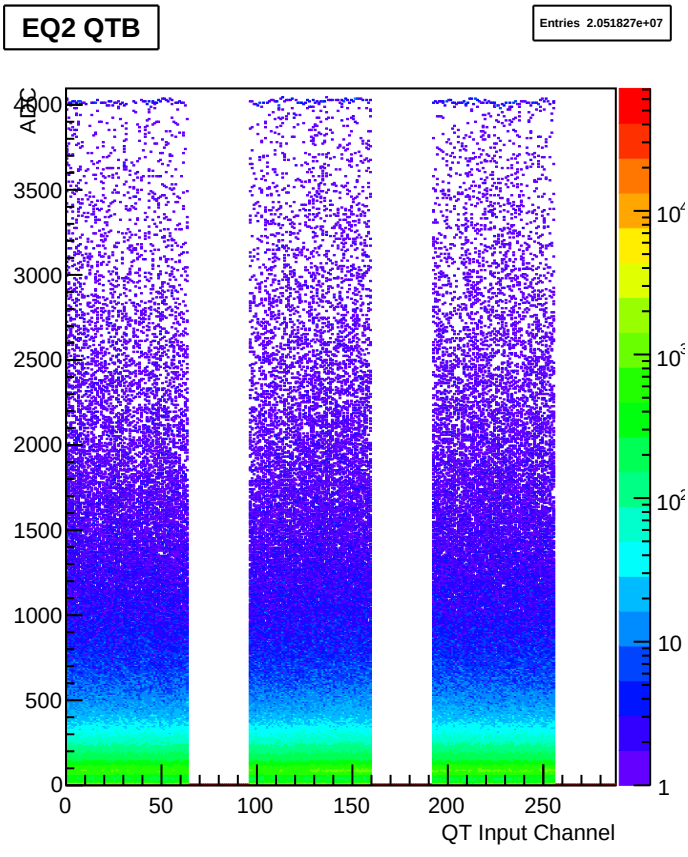

BBQ-VP002 West
Entries 1139904
TAC
QT Input Channel

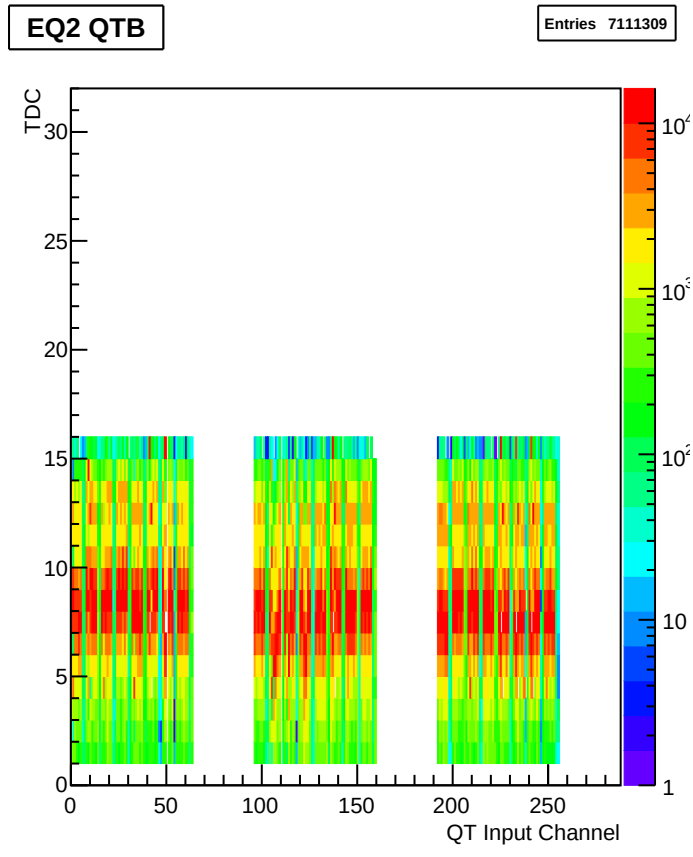

EQ1 QTB
Entries 2.051827e+07
ADC
QT Input Channel

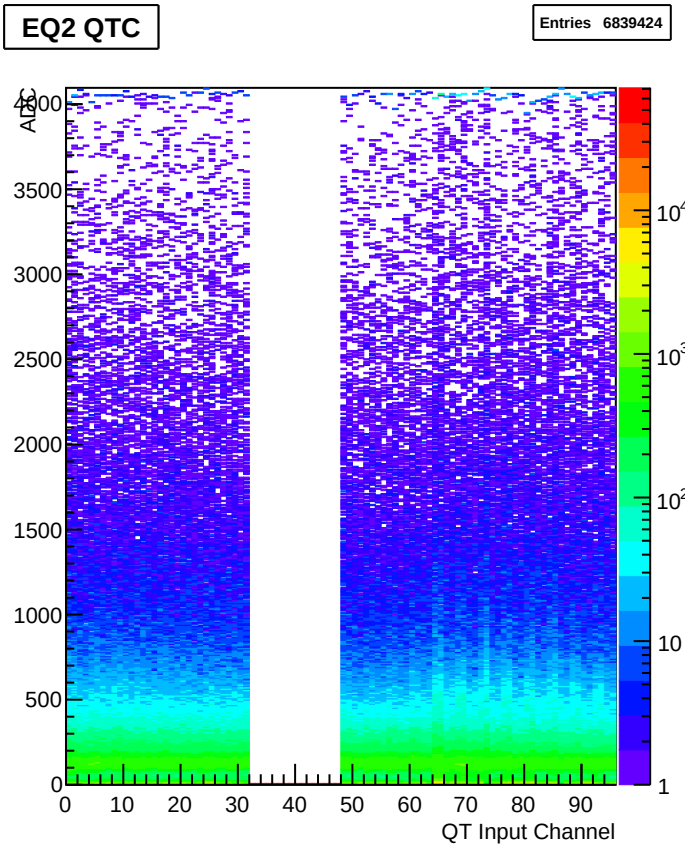

EQ1 QTB
Entries 7031332
TDC
QT Input Channel

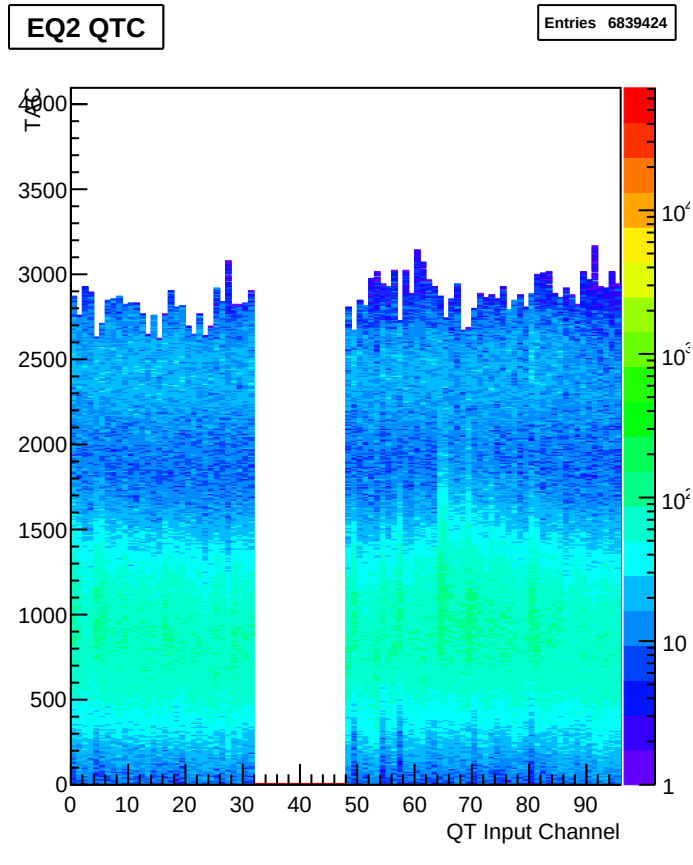

EQ1 QTC
Entries 6839424
ADC
QT Input Channel

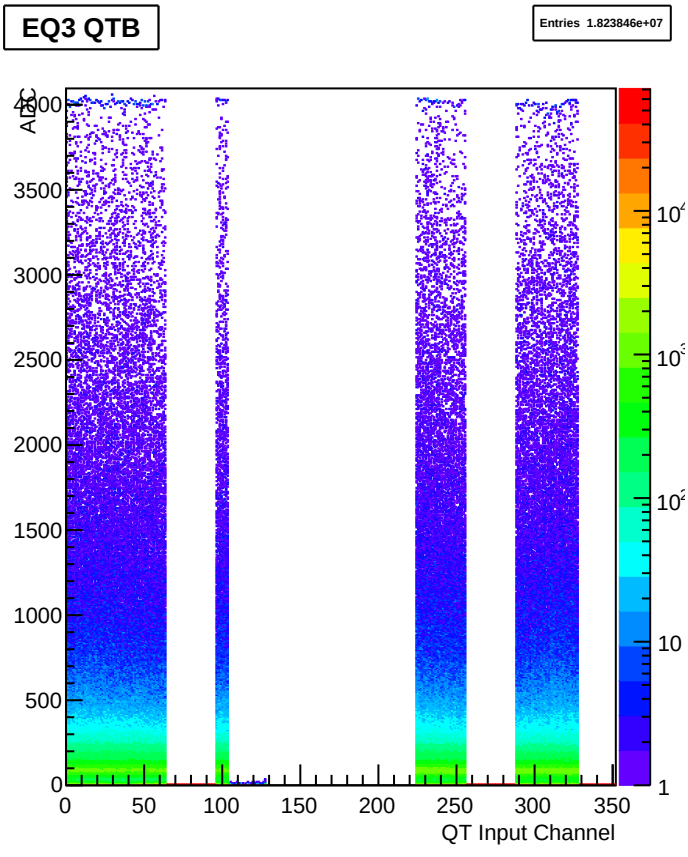

EQ1 QTC
Entries 6839424
TADC
QT Input Channel

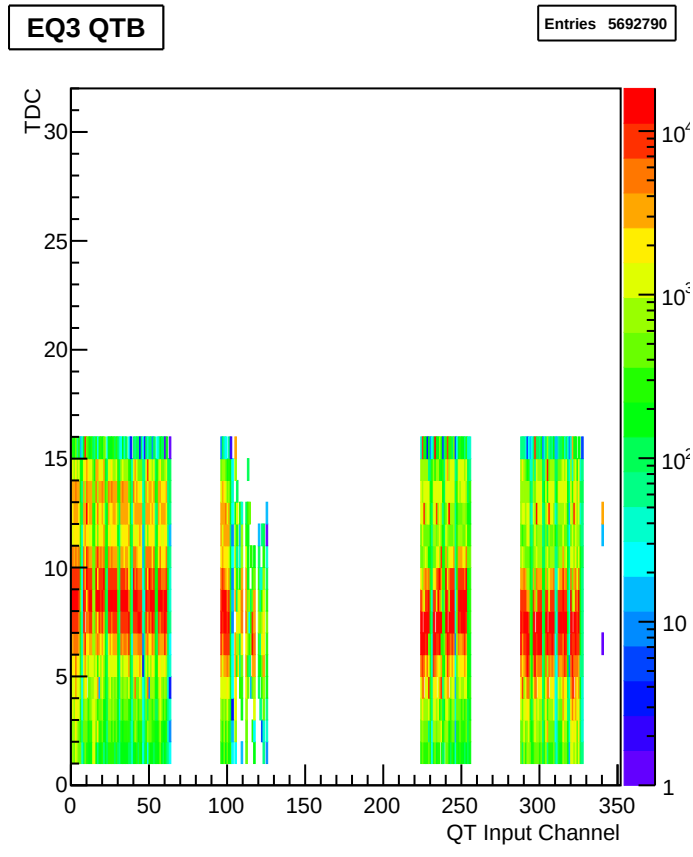

EQ2 QTB
Entries 2.051827e+07
ADC
QT Input Channel

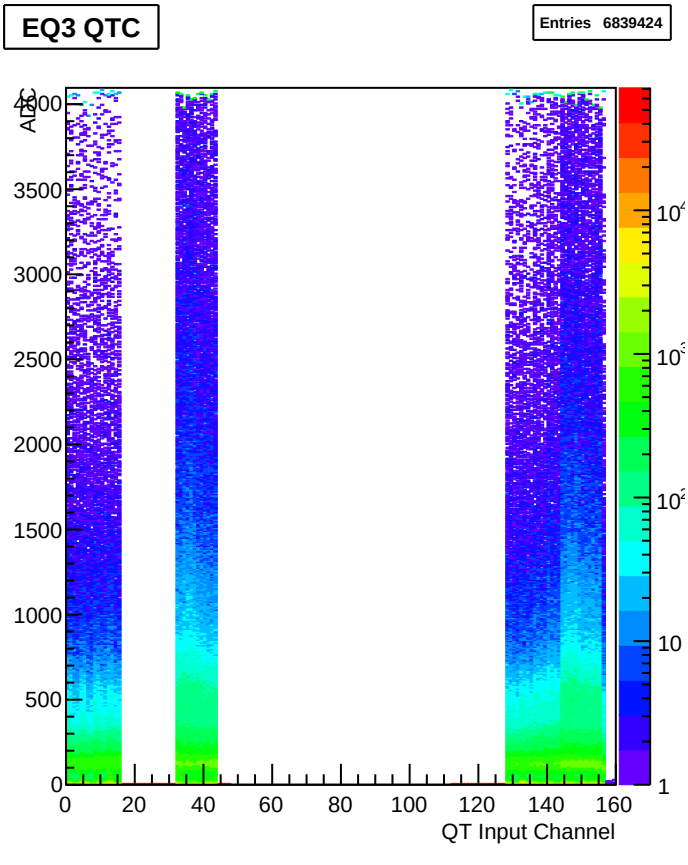

EQ2 QTB
Entries 7111309
TDC
QT Input Channel

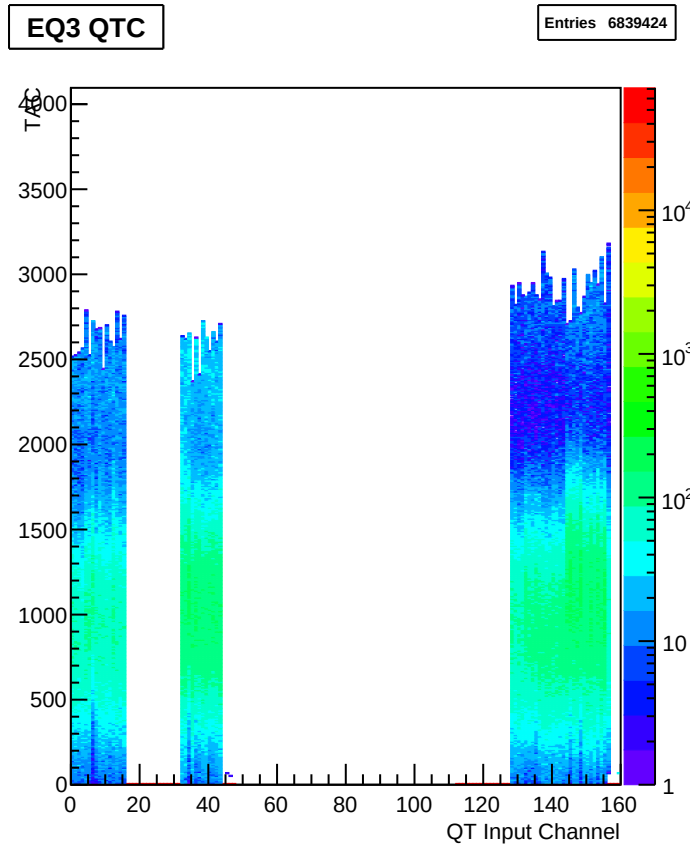

EQ2 QTC
Entries 6839424
ADC
QT Input Channel

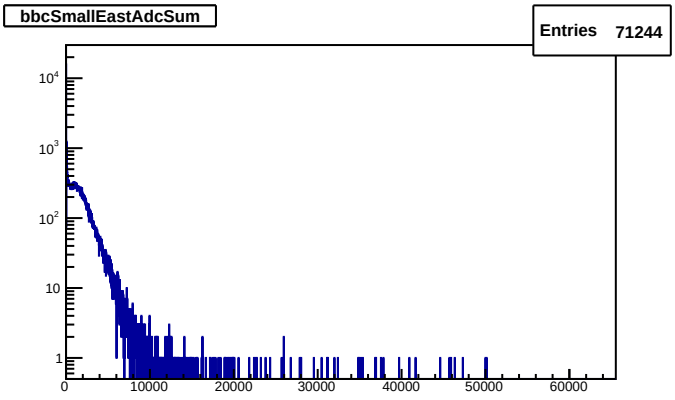

EQ2 QTC
Entries 6839424
TADC
QT Input Channel

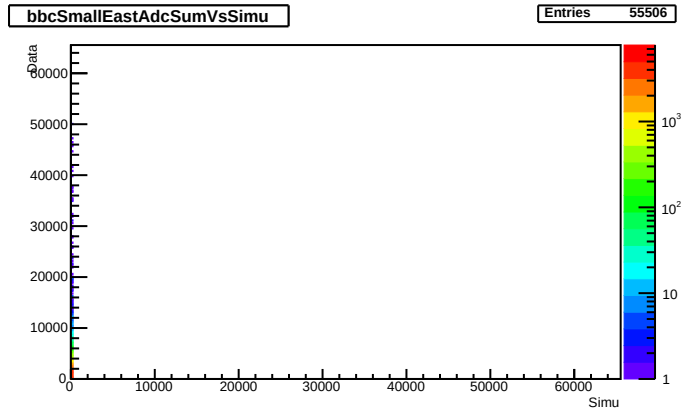

EQ3 QTB
Entries 1.823846e+07
ADC
QT Input Channel

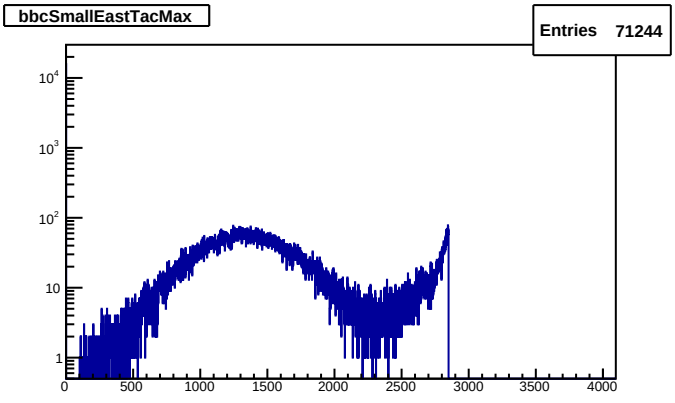

EQ3 QTB
Entries 5692790
TDC
QT Input Channel

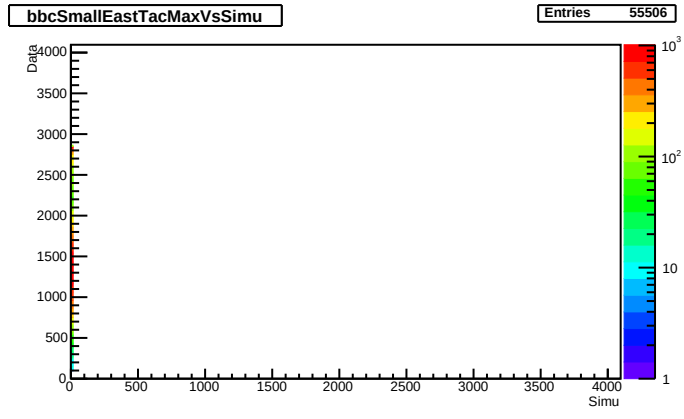

EQ3 QTC
Entries 6839424
ADC
QT Input Channel


EQ3 QTC
Entries 6839424
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 71244


bbcSmallEastAdcSumVsSimu
Entries 55506
Data
Simu


bbcSmallEastTacMax
Entries 71244


bbcSmallEastTacMaxVsSimu
Entries 55506
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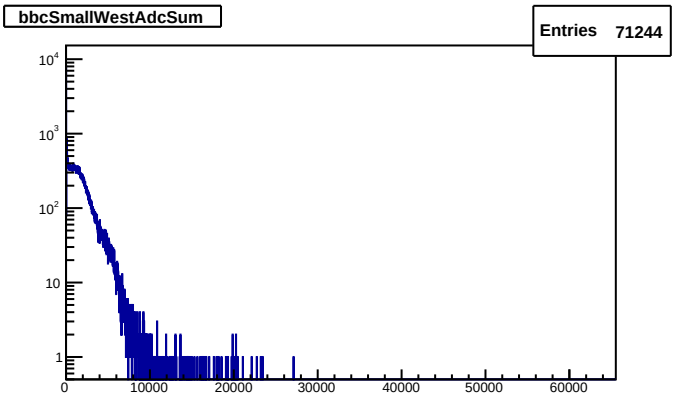
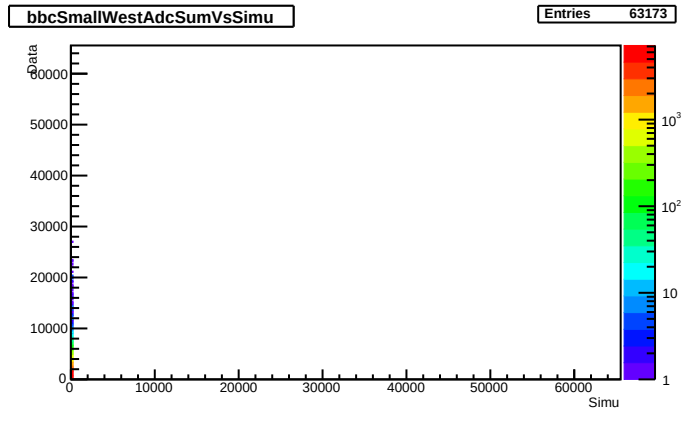
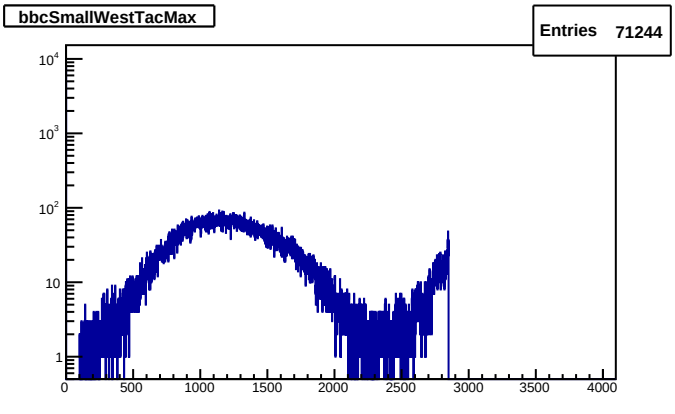

bbcSmallWestAdcSum
Entries 71244


bbcSmallWestAdcSumVsSimu
Entries 63173
Data
Simu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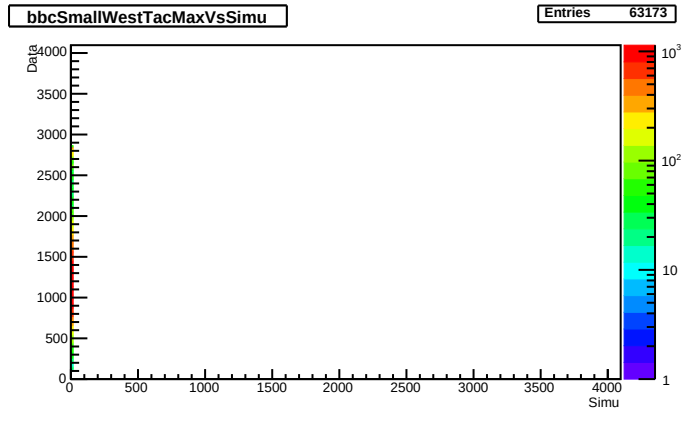
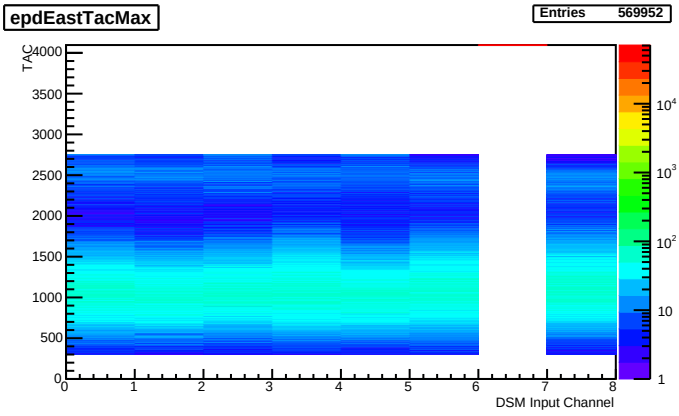
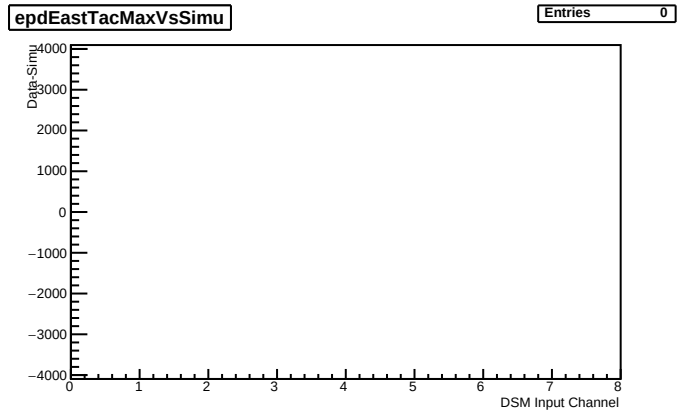
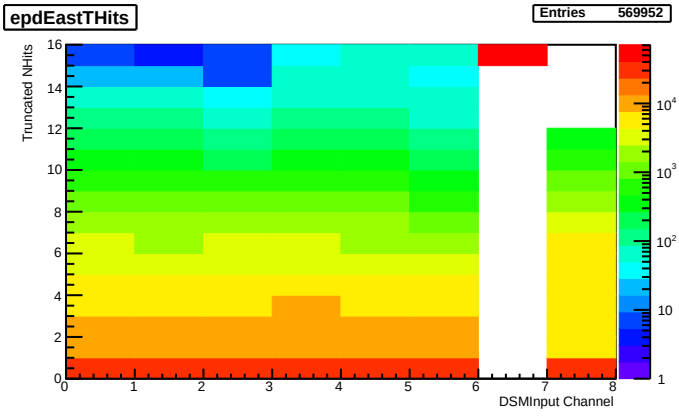
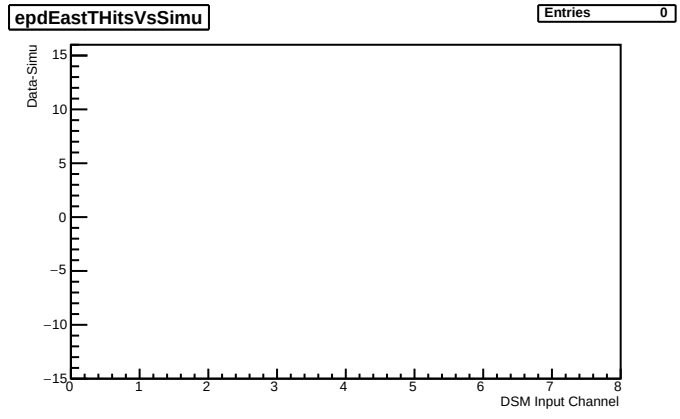
Entries 71244


bbcSmallWestTacMaxVsSimu
Entries 63173
Data
Simu


epdEastTacMax
Entries 569952
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 569952
Truncated NHits
DSMInput Channel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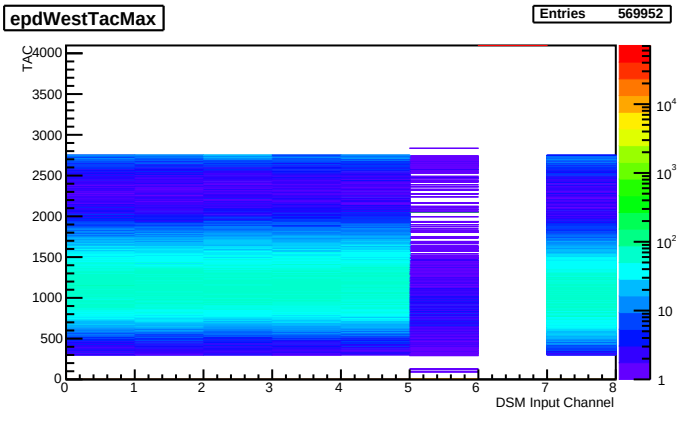
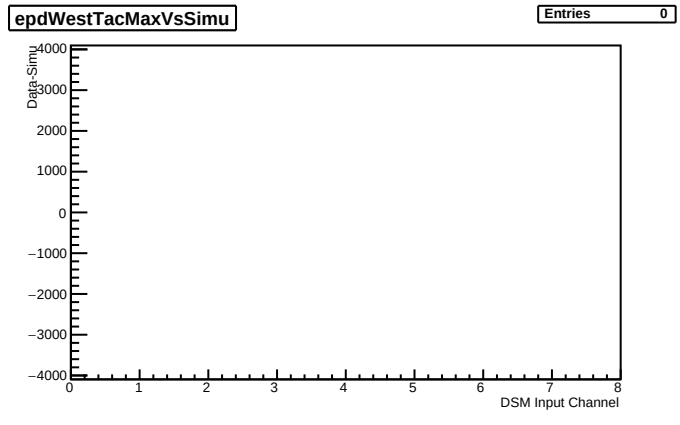
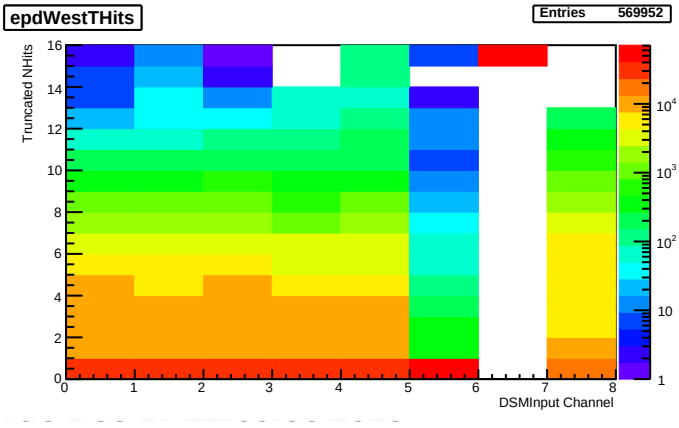
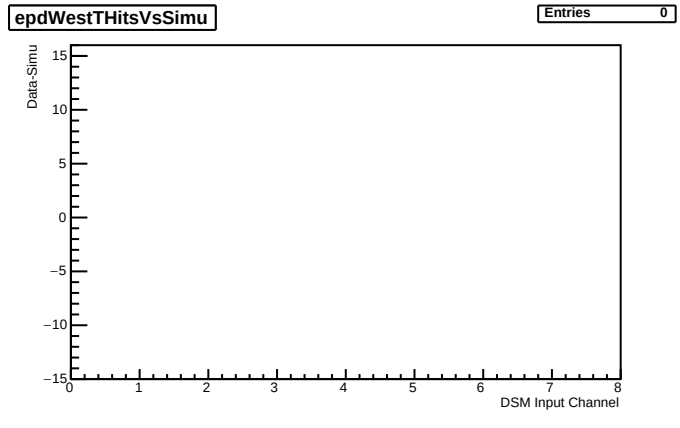
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 569952
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 569952
Truncated NHits
DSMInput Channel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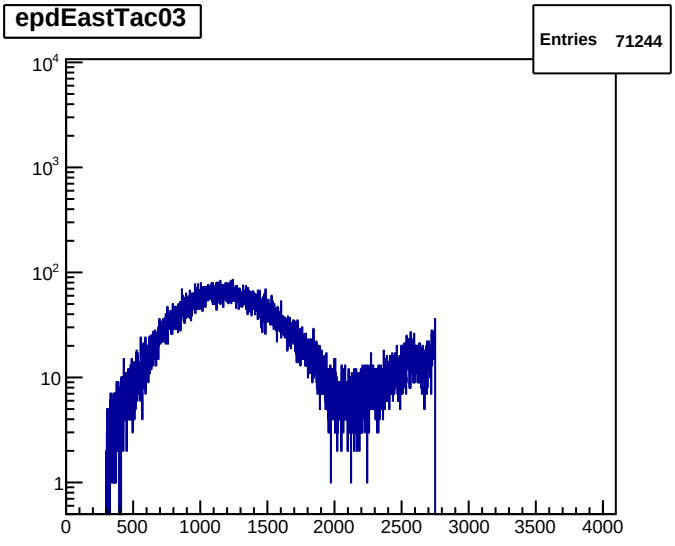
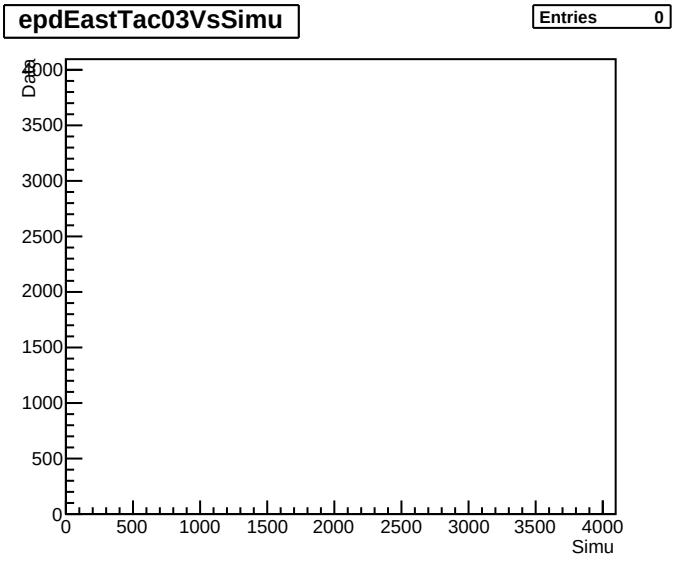
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 71244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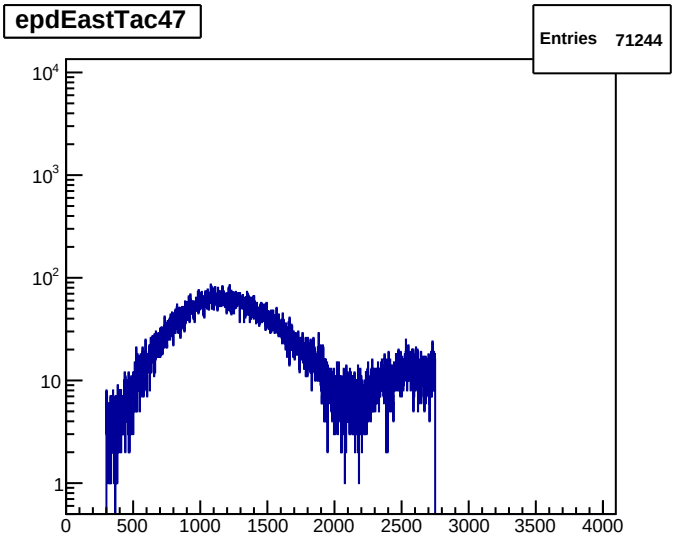
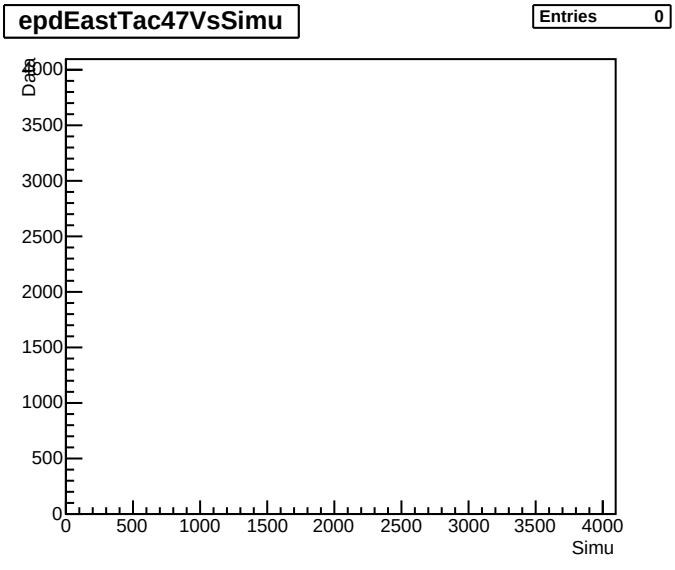
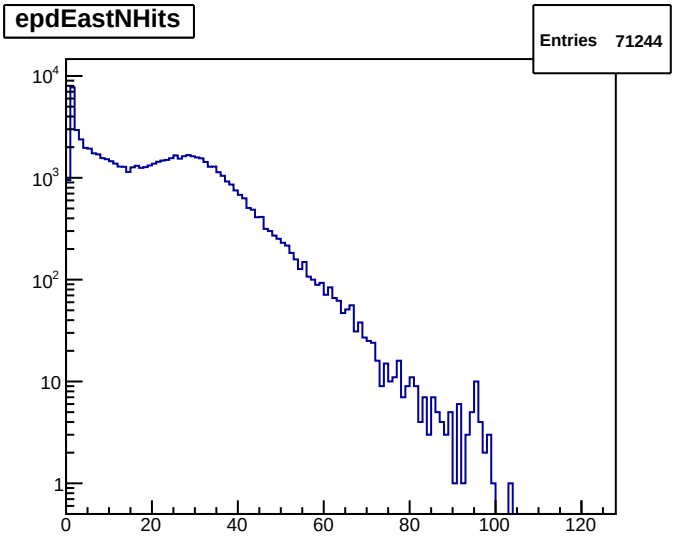
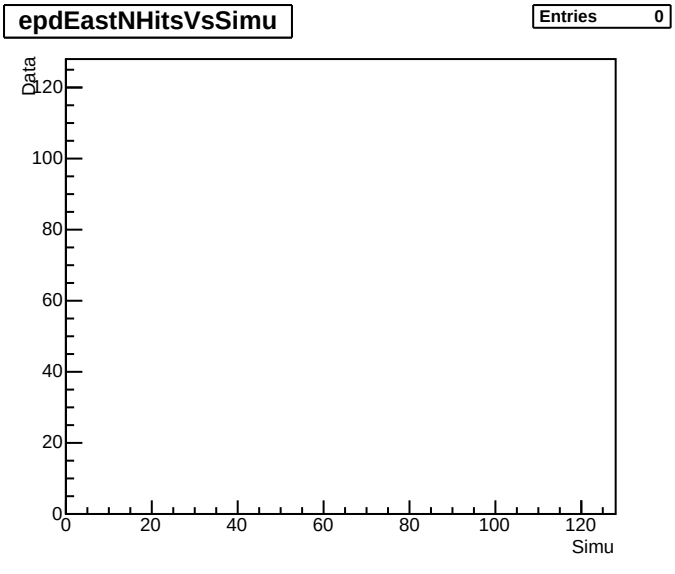
Entries 0
Data
Simu


epdEastTac47
Entries 71244


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 71244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Entries 0
Data
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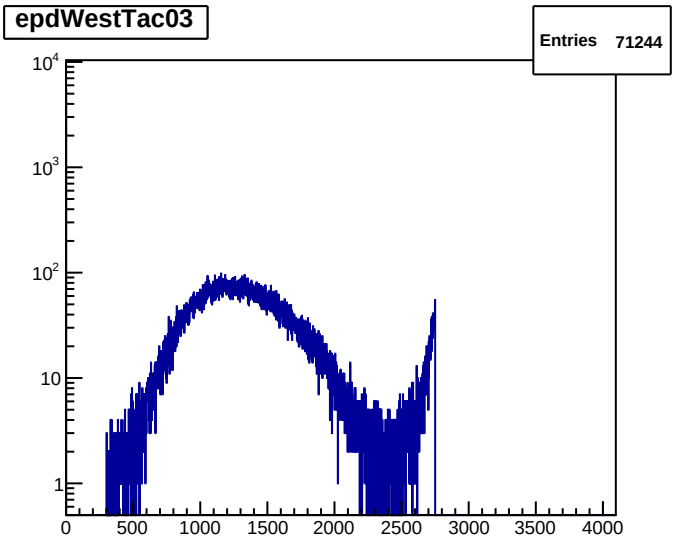
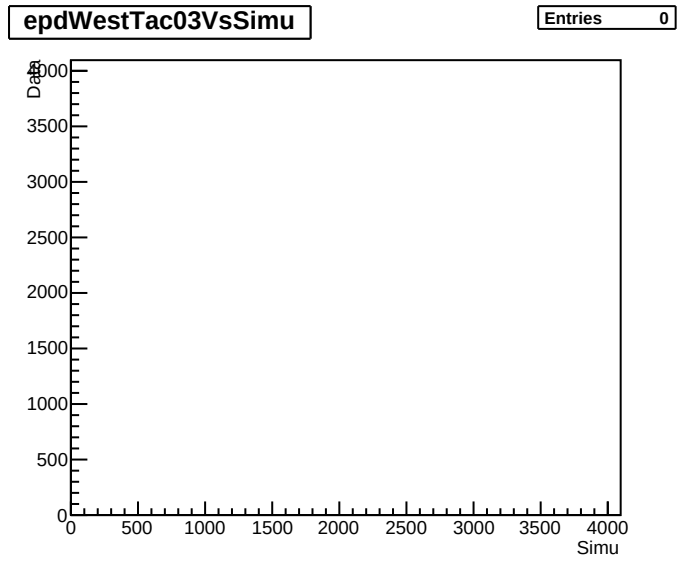

epdWestTac03
Entries 71244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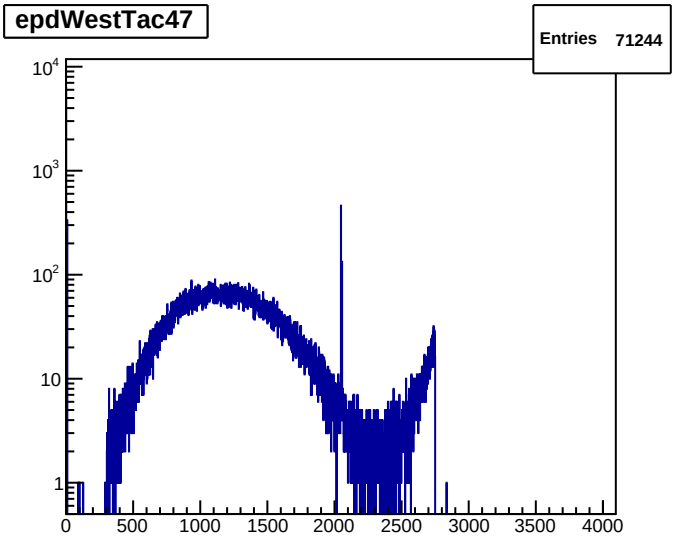
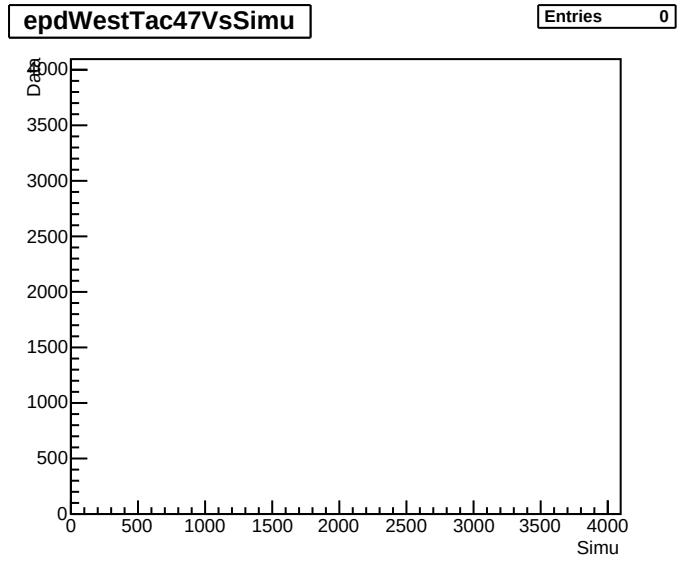
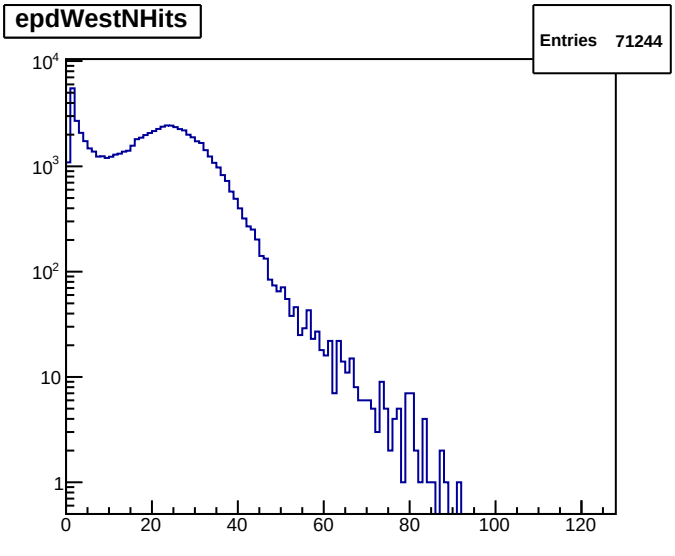
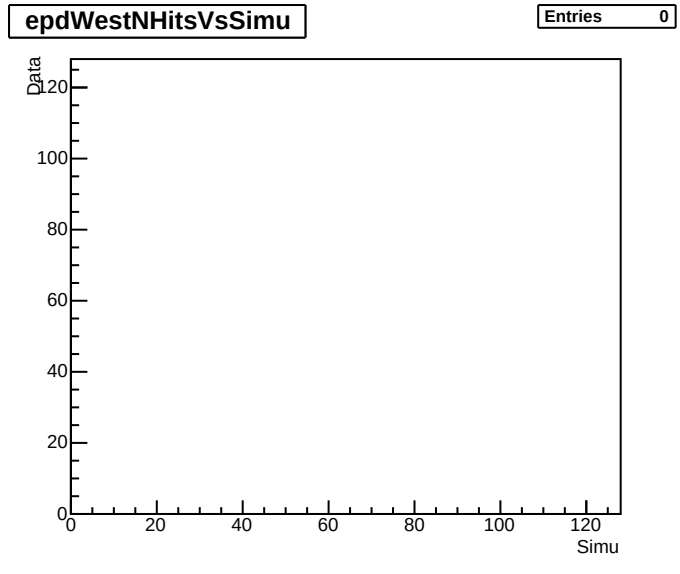
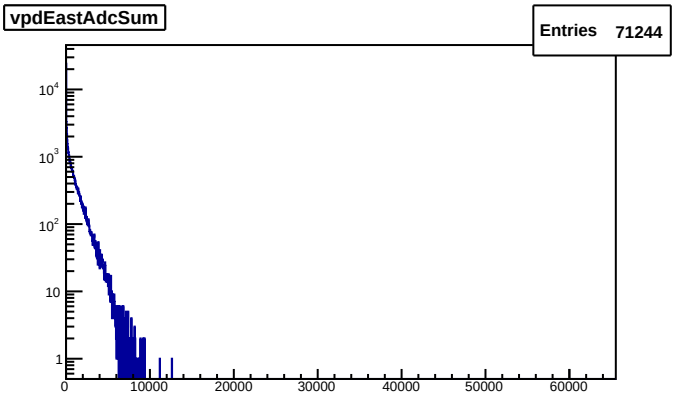
Entries 0
Data
Simu

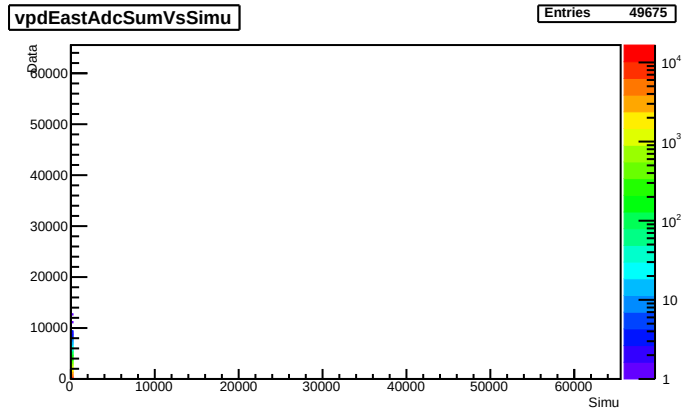

epdWestTac47
Entries 71244

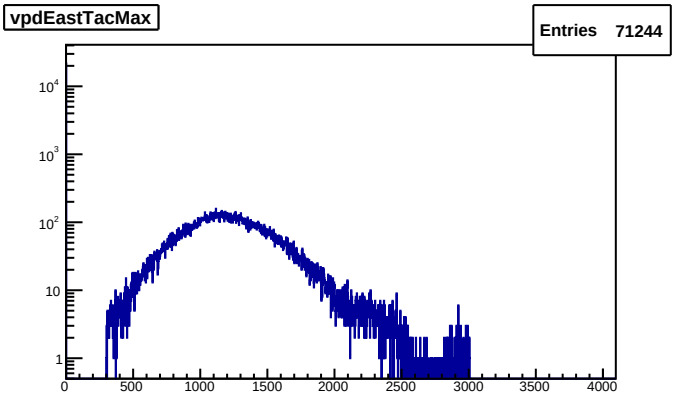

epdWestTac47VsSimu
Entries 0
Data
Simu

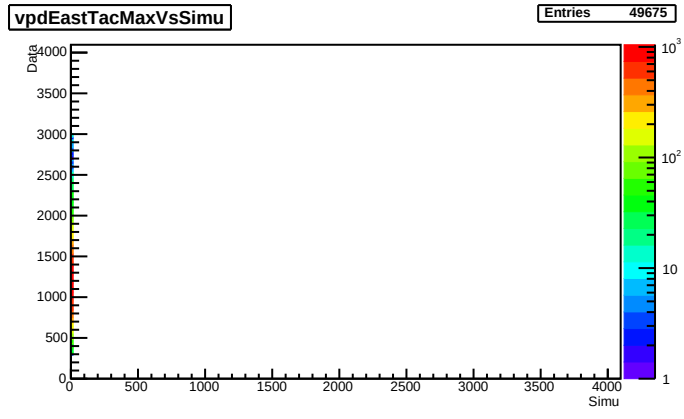

epdWestNHits
Entries 71244

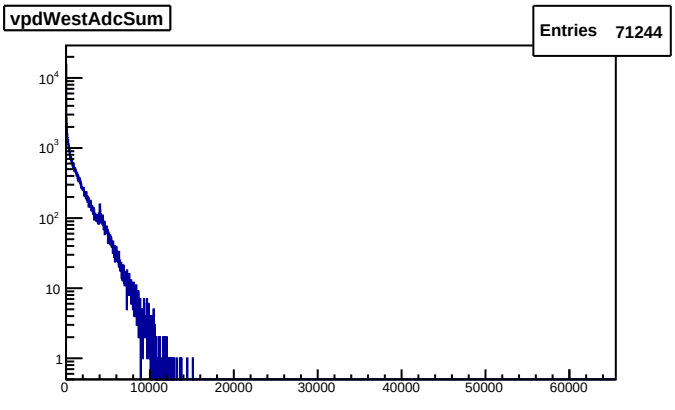

epdWestNHitsVsSimu
Entries 0
Data
Simu

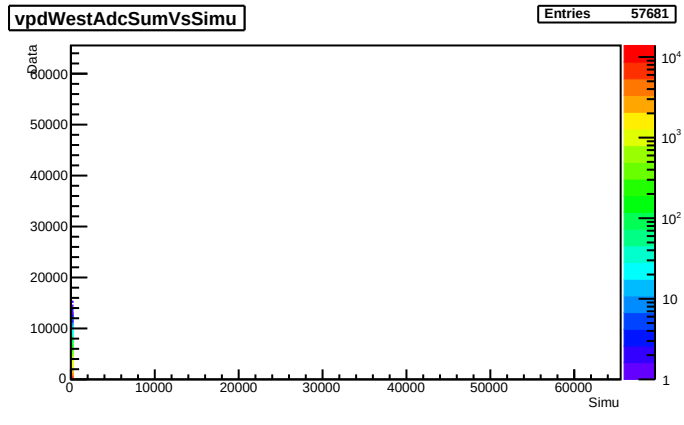

vpdEastAdcSum
Entries 71244

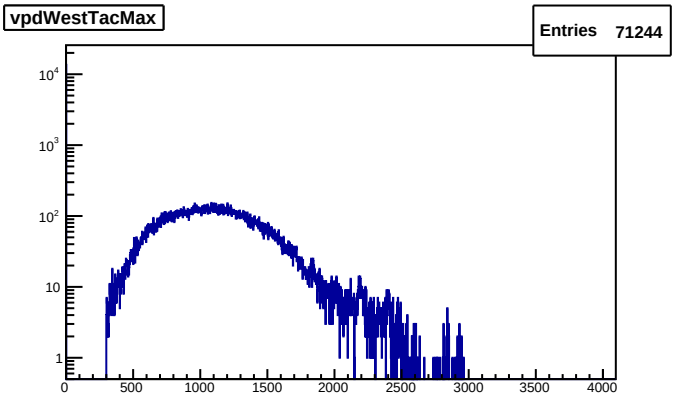

vpdEastAdcSumVsSimu
Entries 49675
Data
Simu

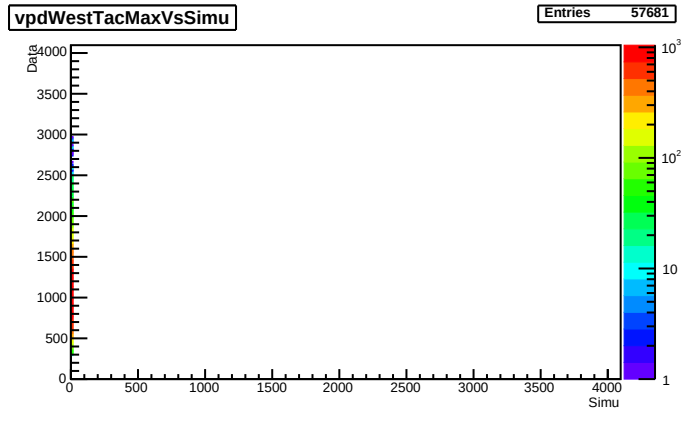

vpdEastTacMax
Entries 71244

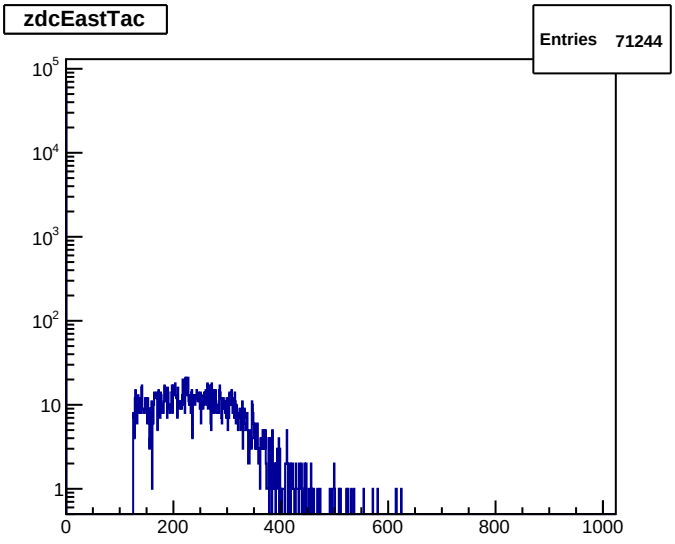

vpdEastTacMaxVsSimu
Entries 49675
Data
Simu

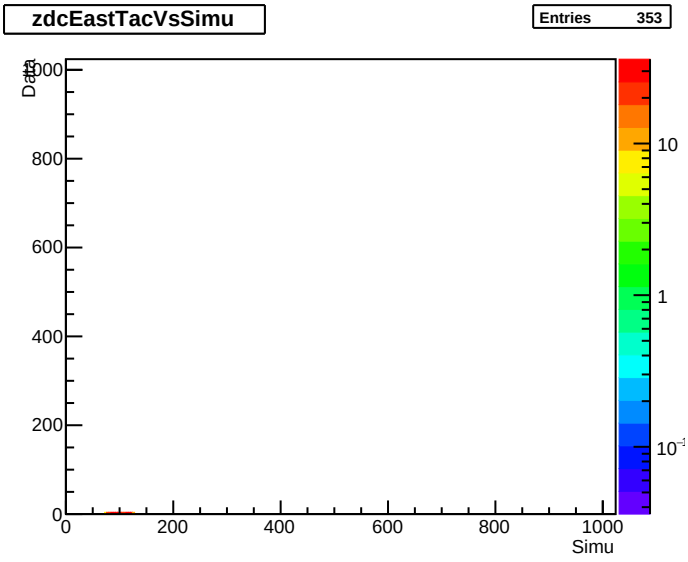

vpdWestAdcSum
Entries 71244

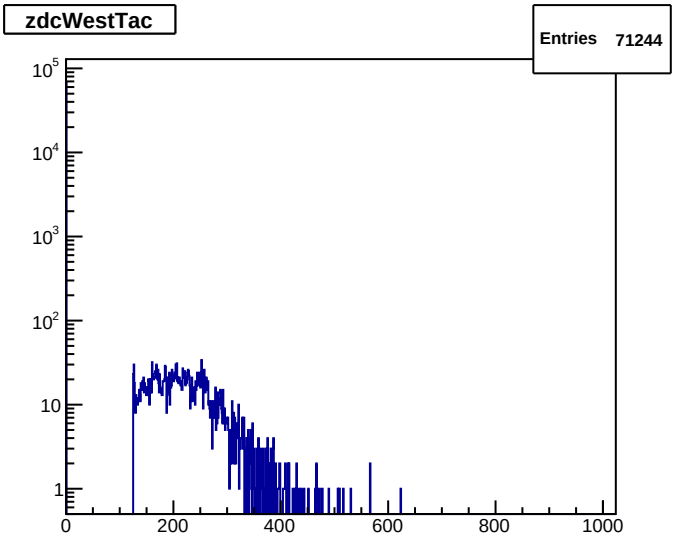

vpdWestAdcSumVsSimu
Entries 57681
Data
Simu

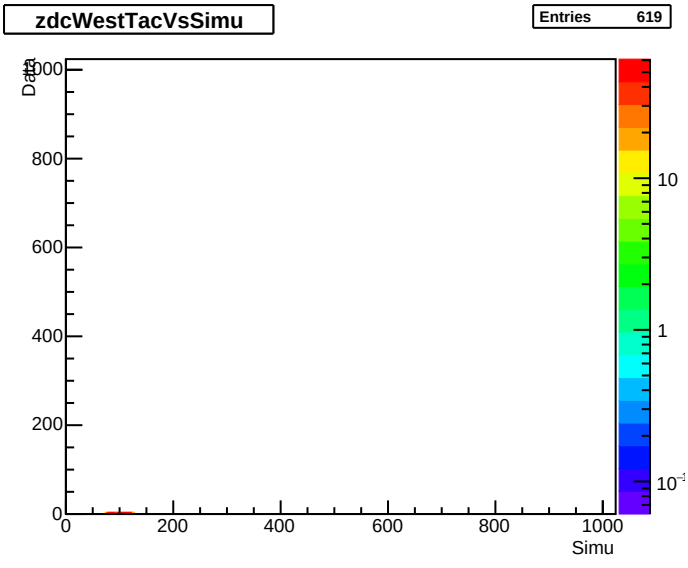

vpdWestTacMax
Entries 71244

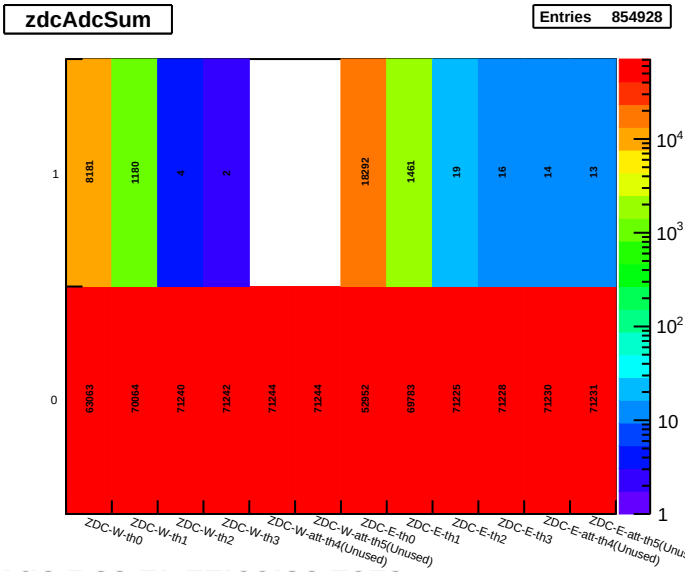

vpdWestTacMaxVsSimu
Entries 57681
Data
Simu

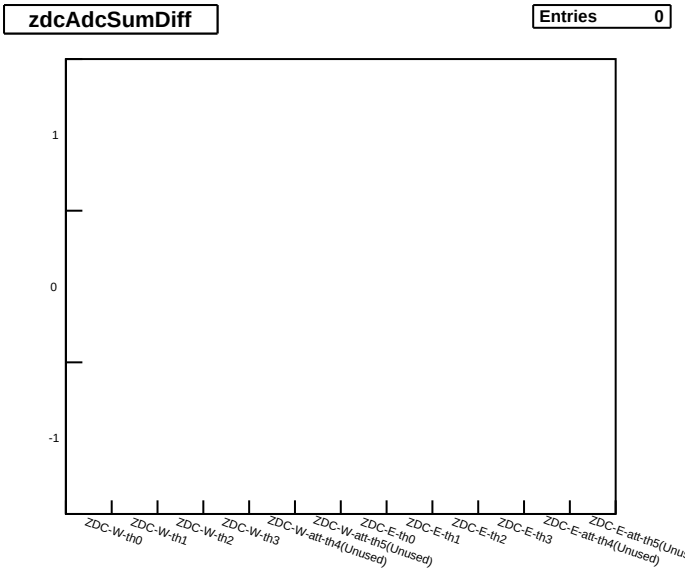

zdcEastTac
Entries 71244

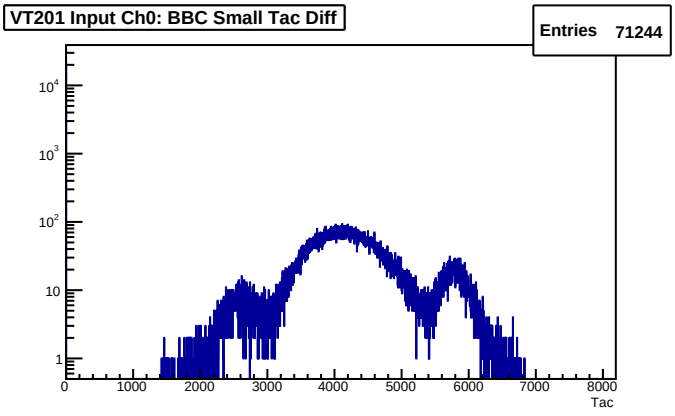

zdcEastTacVsSimu
Entries 353
Data
Simu

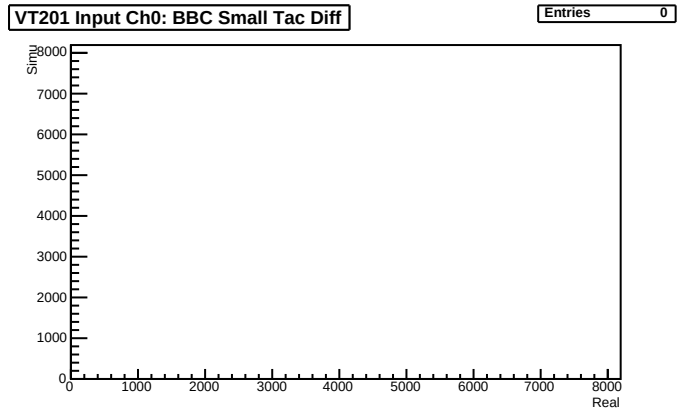

zdcWestTac
Entries 71244

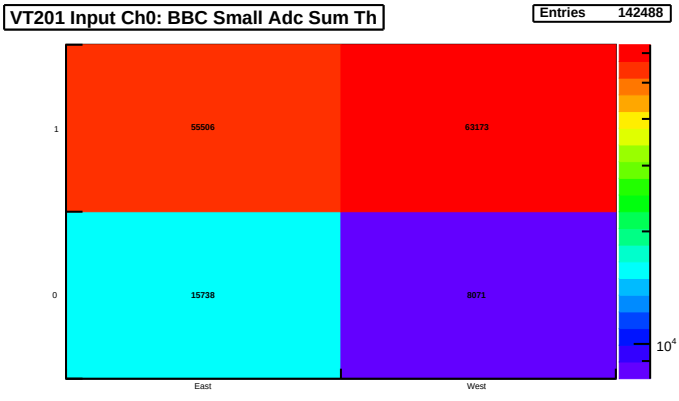

zdcWestTacVsSimu
Entries 619
Data
Simu

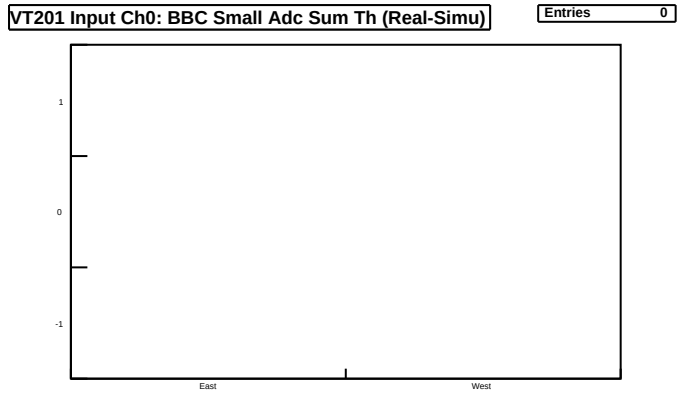

zdcAdcSum
Entries 854928
8181
1180
4
2
18292
1461
19
16
14
13
63063
70064
71240
71242
71244
71244
52952
69783
71225
71228
71230
71231
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

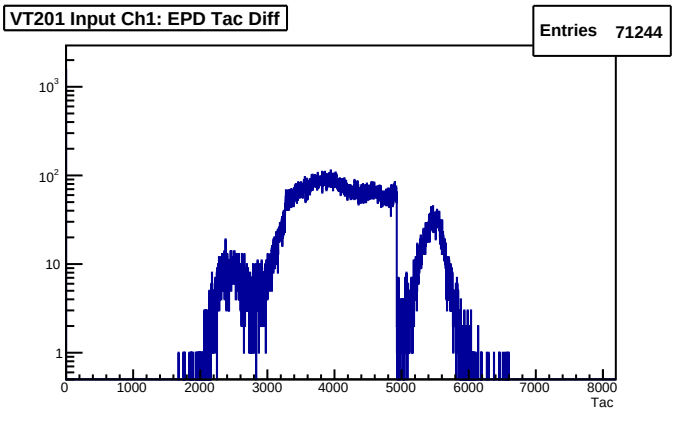

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

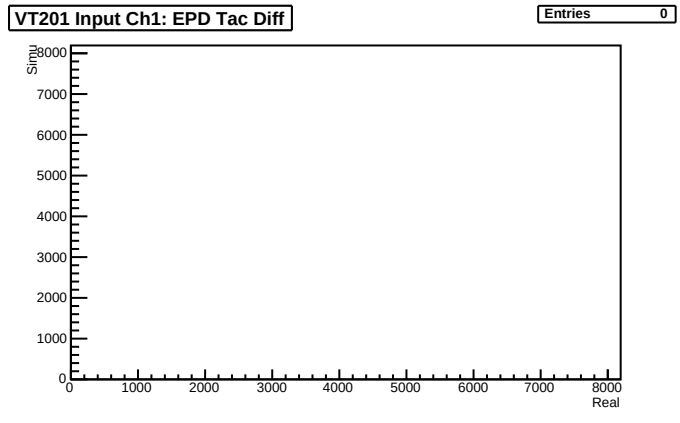

VT201 Input Ch0: BBC Small Tac Diff
Entries 71244
Tac

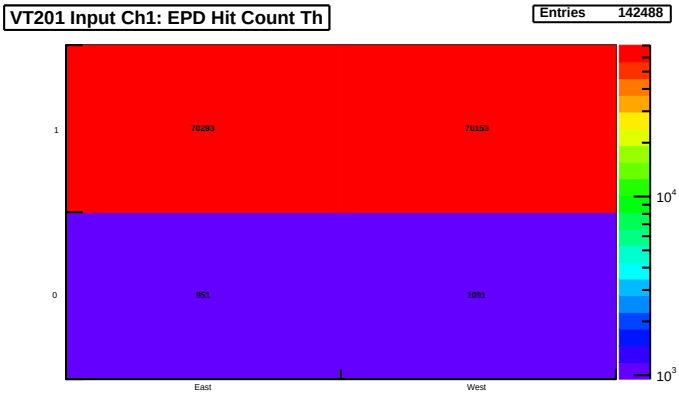

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

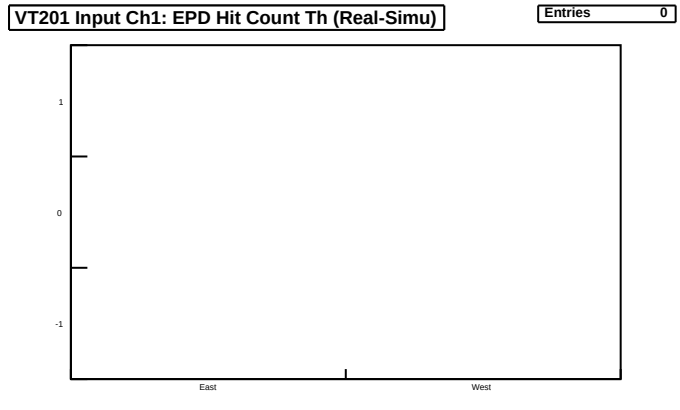

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 142488
55506
63173
15738
8071
East
West

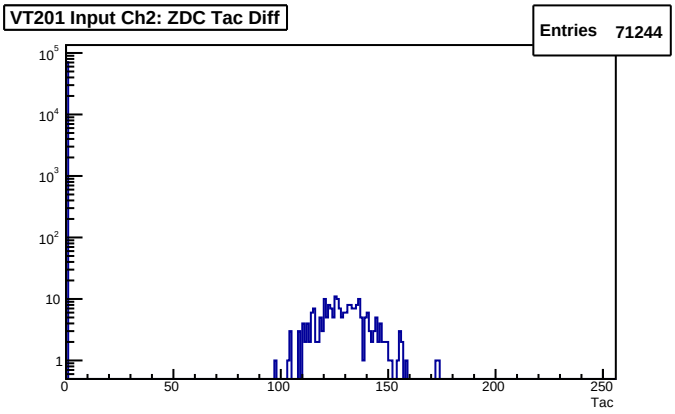

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

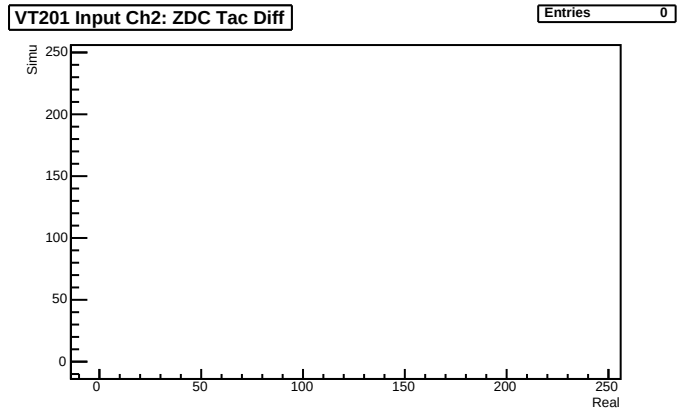

VT201 Input Ch1: EPD Tac Diff
Entries 71244
Tac

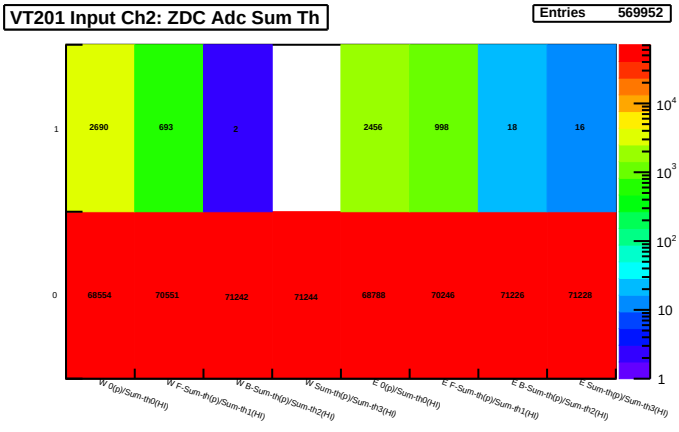

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

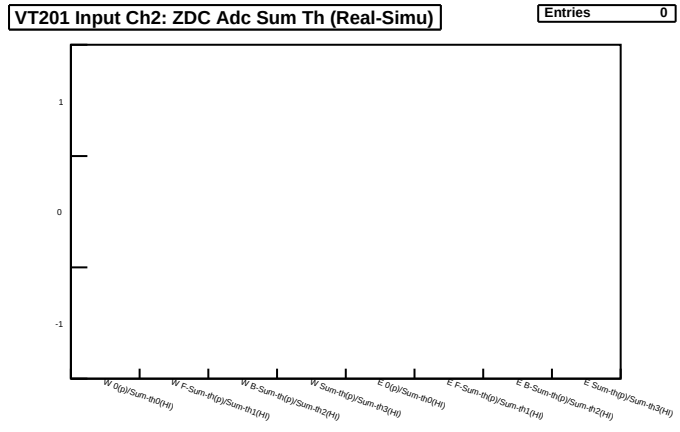

VT201 Input Ch1: EPD Hit Count Th
Entries 142488
70293
70153
951
1091
East
West

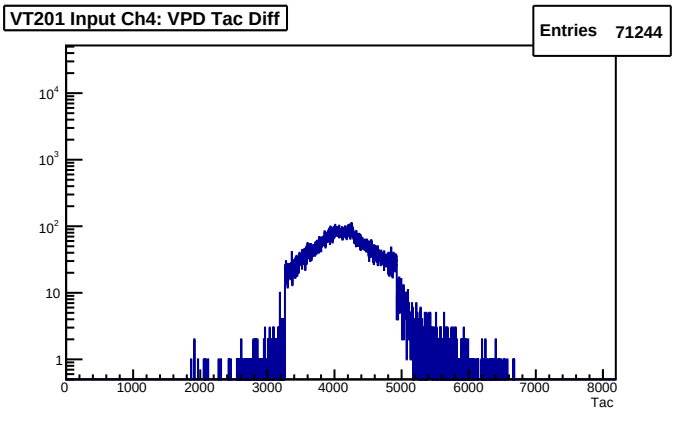

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

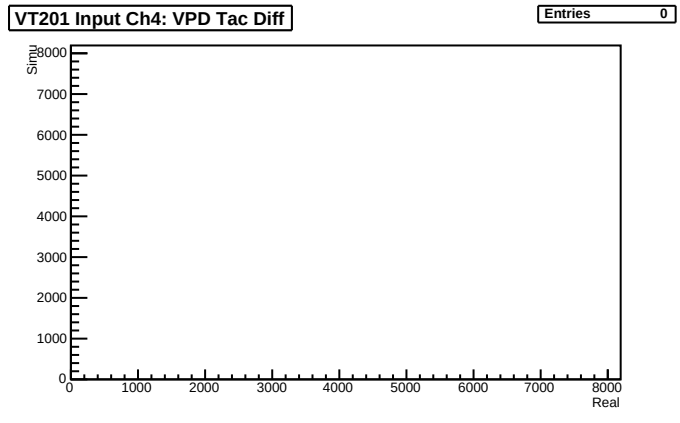

VT201 Input Ch2: ZDC Tac Diff
Entries 71244
Tac

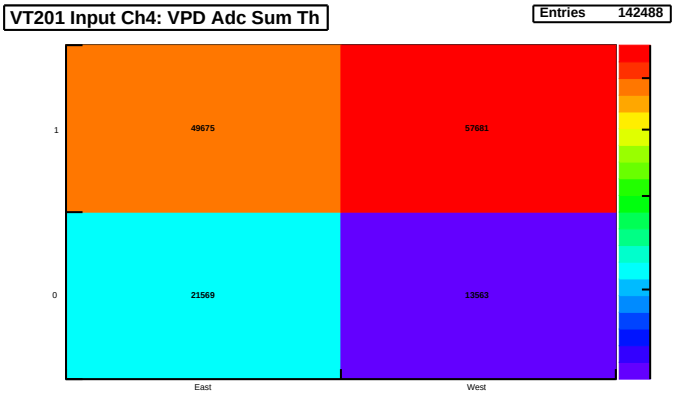

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

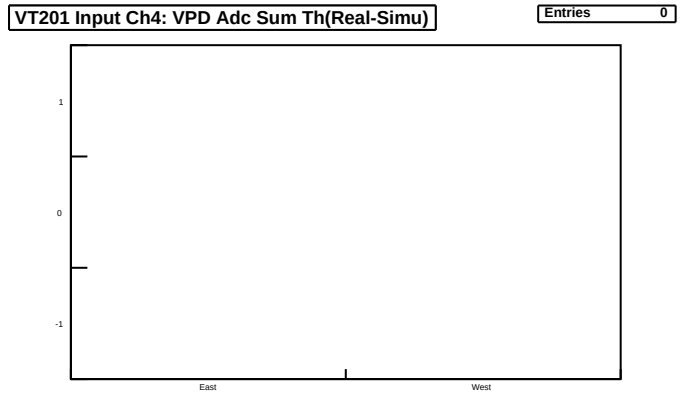

VT201 Input Ch2: ZDC Adc Sum Th
Entries 569952
2690
693
2
2456
998
18
16
68554
70551
71242
71244
68788
70246
71226
71228
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

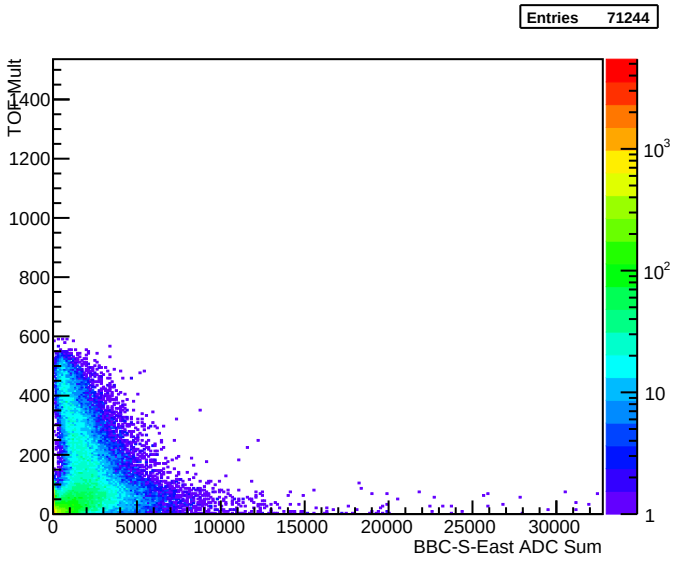

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

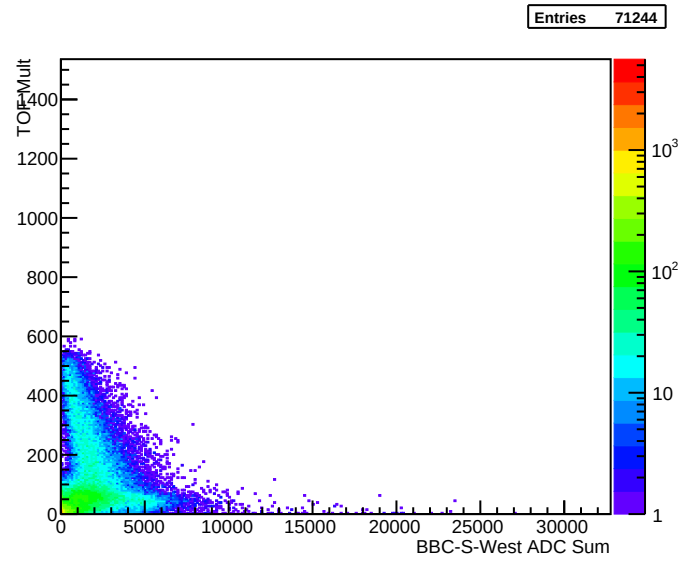

VT201 Input Ch4: VPD Tac Diff
Entries 71244
Tac

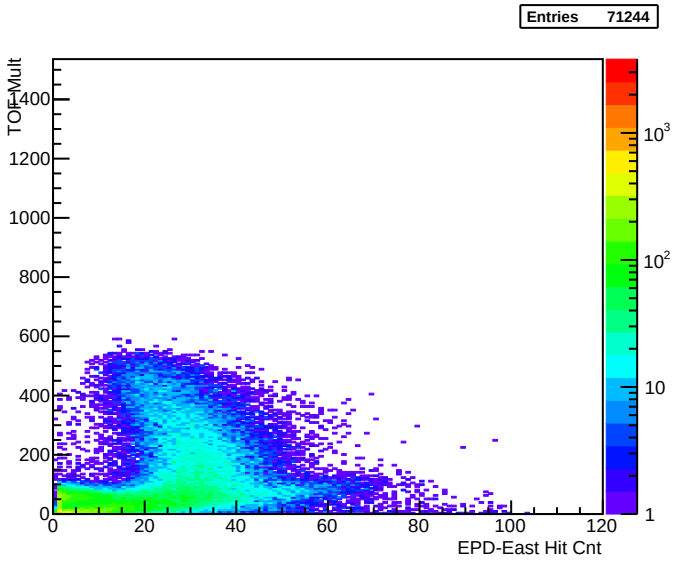

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

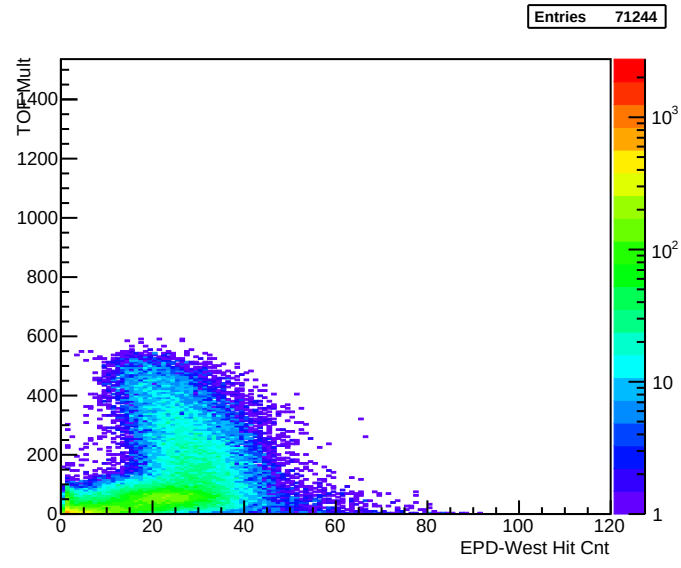

VT201 Input Ch4: VPD Adc Sum Th
Entries 142488
49675
57681
21569
13563
East
West

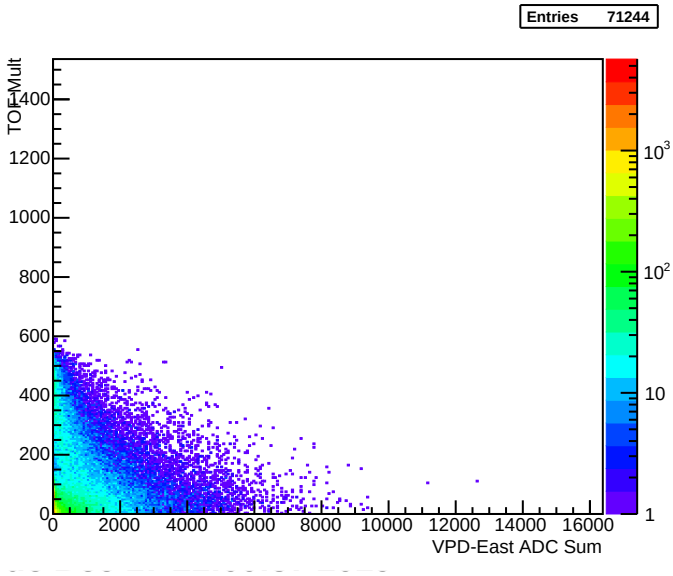

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

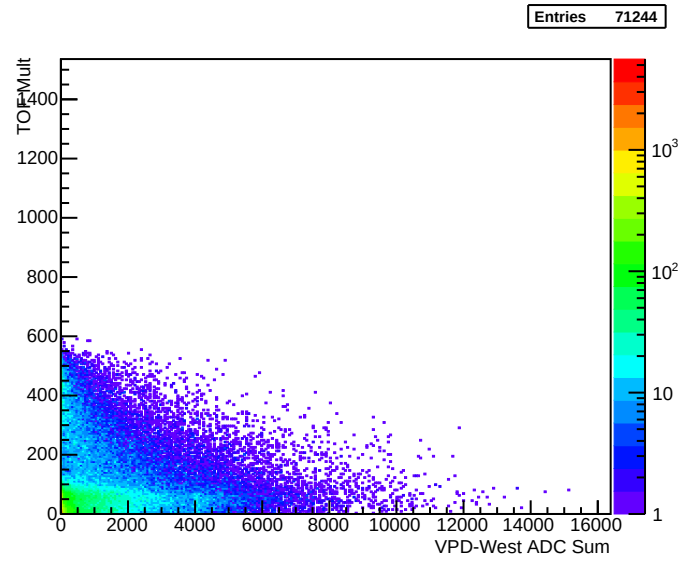

Entries 71244
TOF-Mult
BBC-S-East ADC Sum

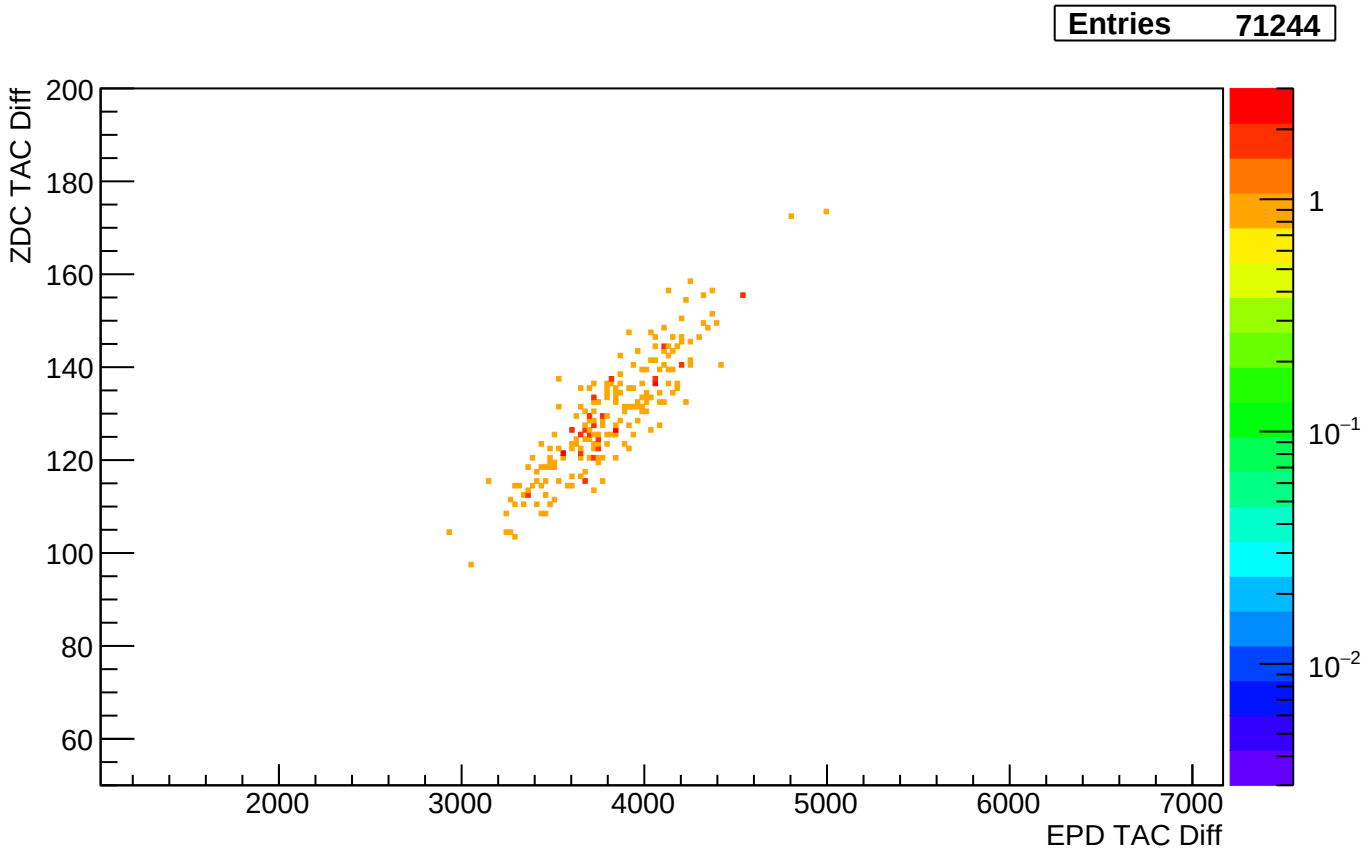

Entries 71244
TOF-Mult
BBC-S-West ADC Sum

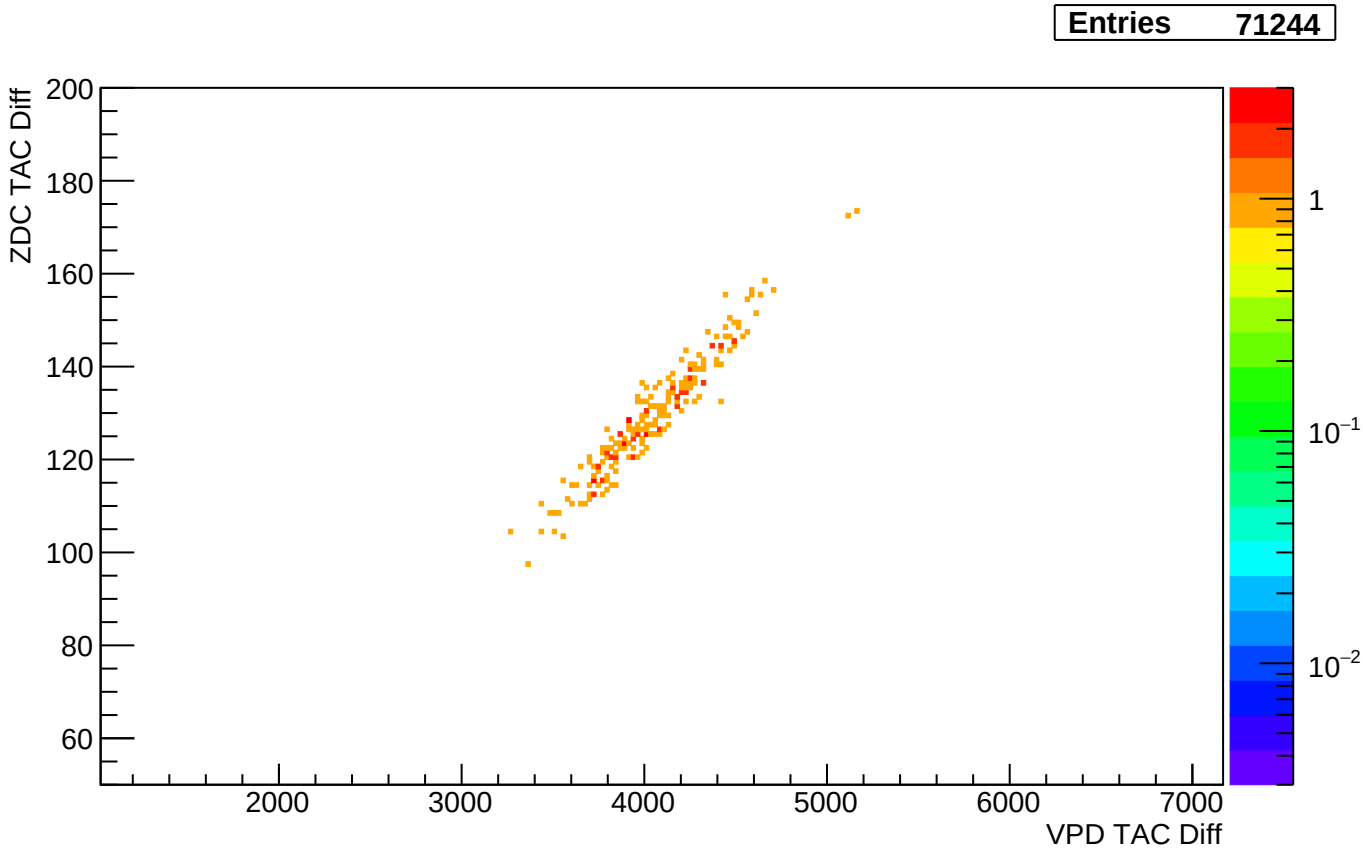

Entries 71244
TOF-Mult
EPD-East Hit Cnt

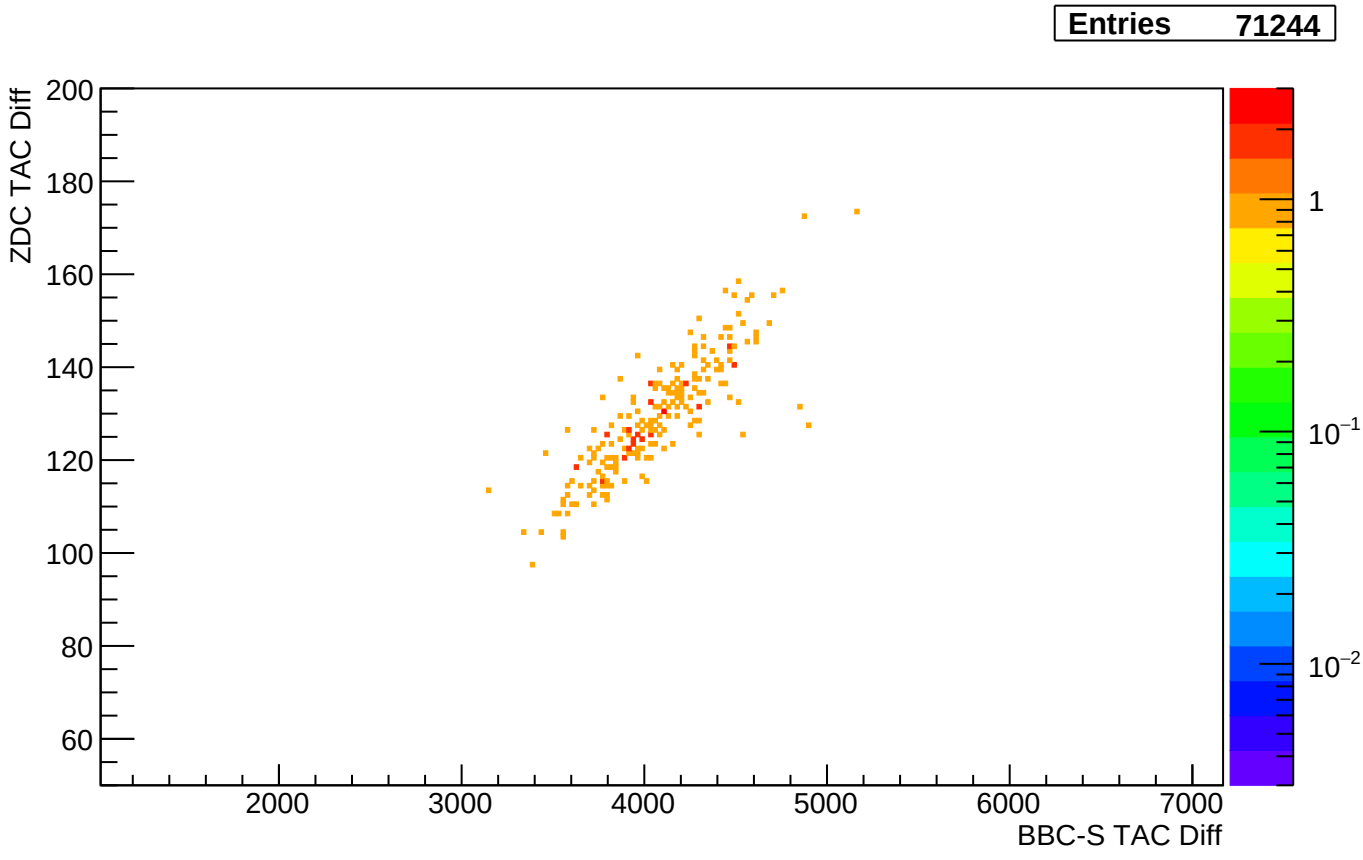

Entries 71244
TOF-Mult
EPD-West Hit Cnt

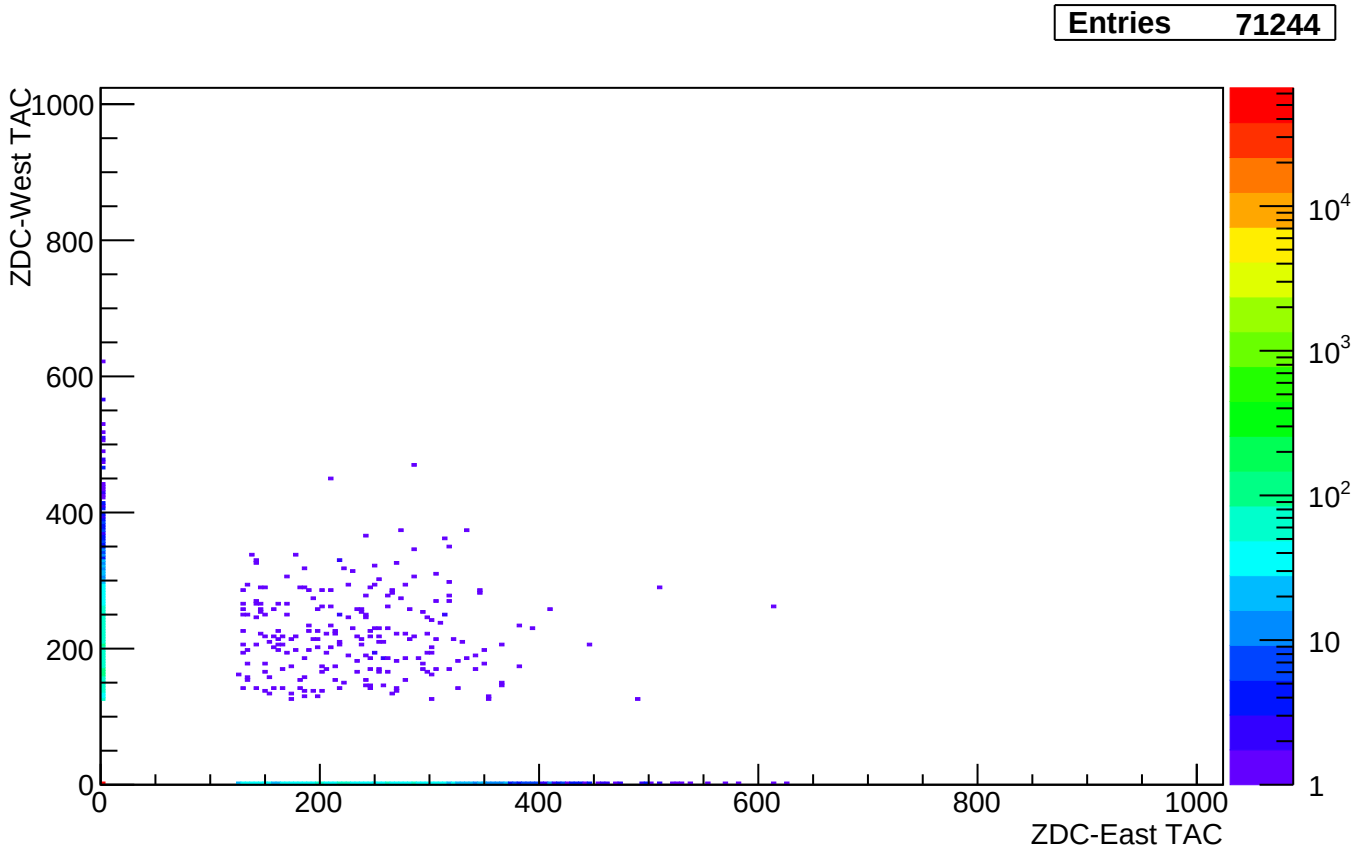

Entries 71244
TOF-Mult
VPD-East ADC Sum

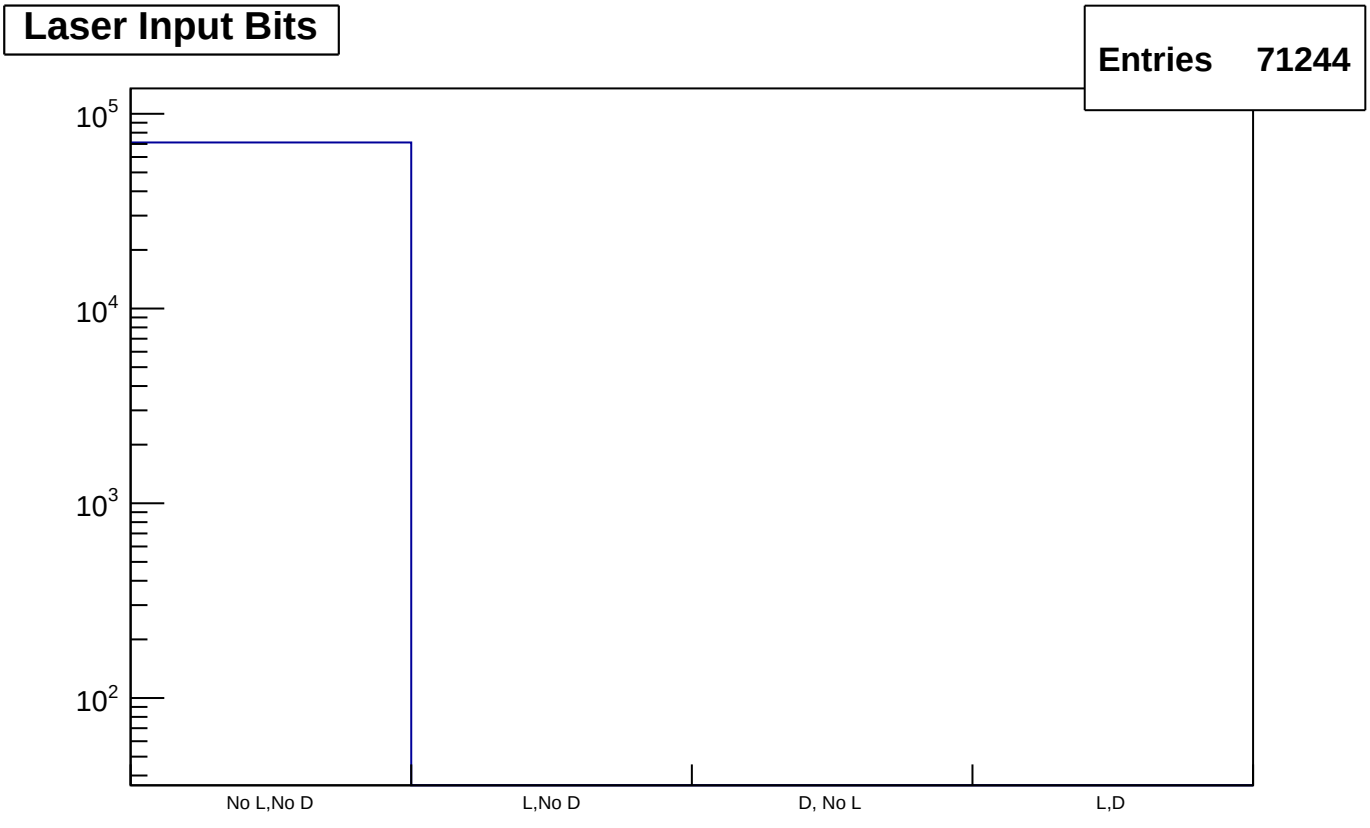

Entries 71244
TOF-Mult
VPD-West ADC Sum

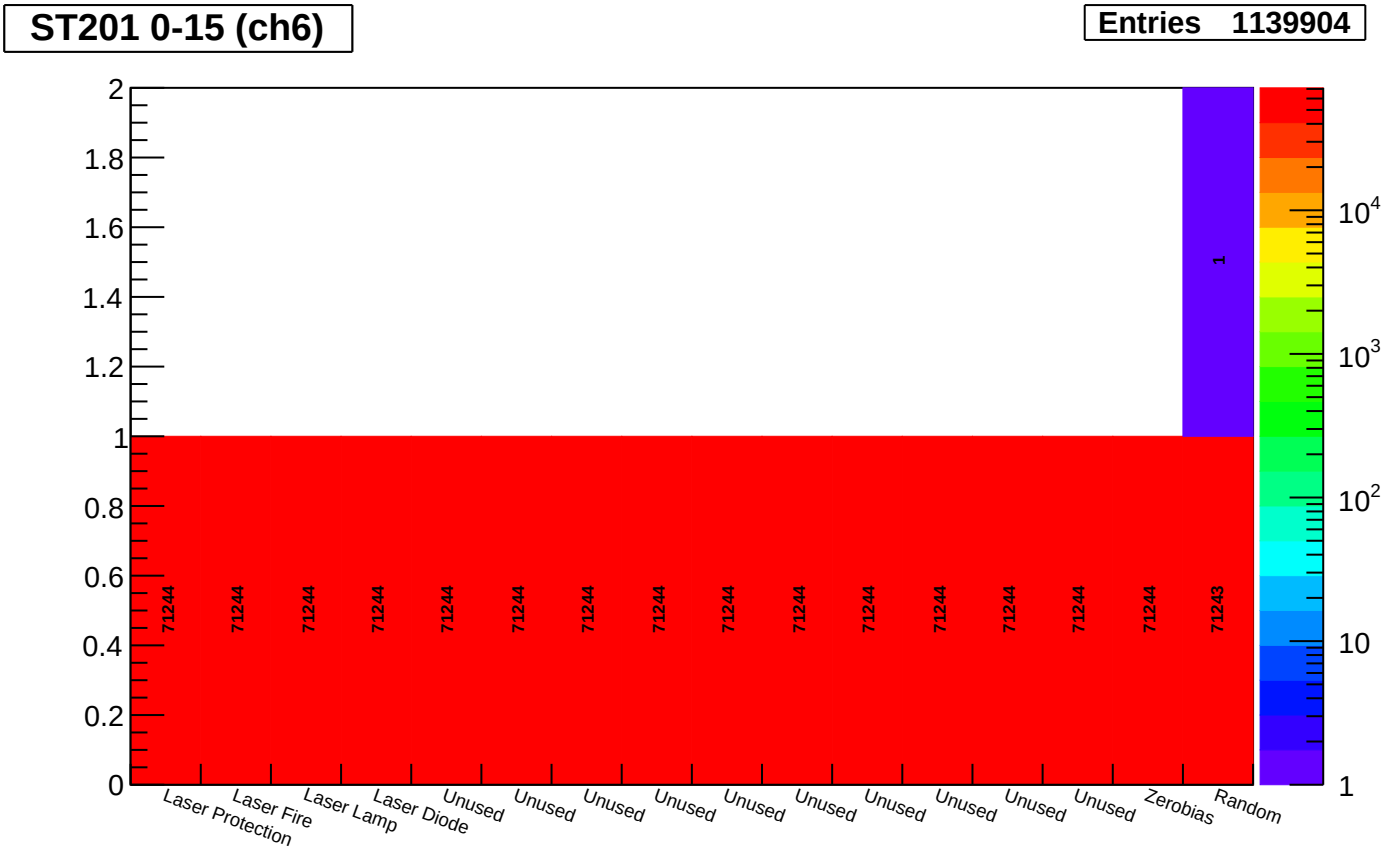

Entries 71244
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
$10^{-1}$
$10^{-2}$

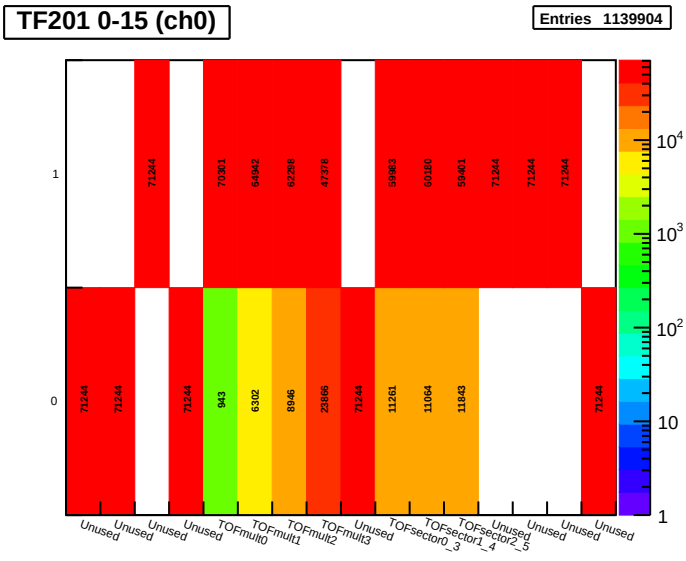

Entries 71244
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
$10^{-1}$
$10^{-2}$

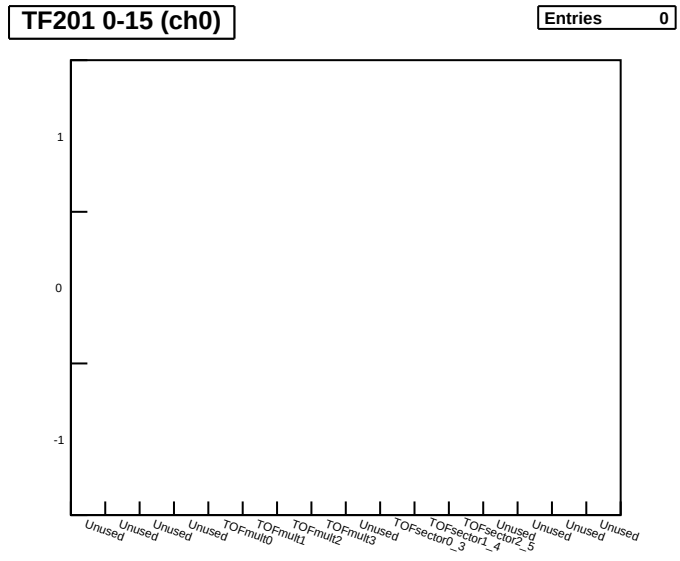

Entries 71244
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
$10^{-1}$
$10^{-2}$

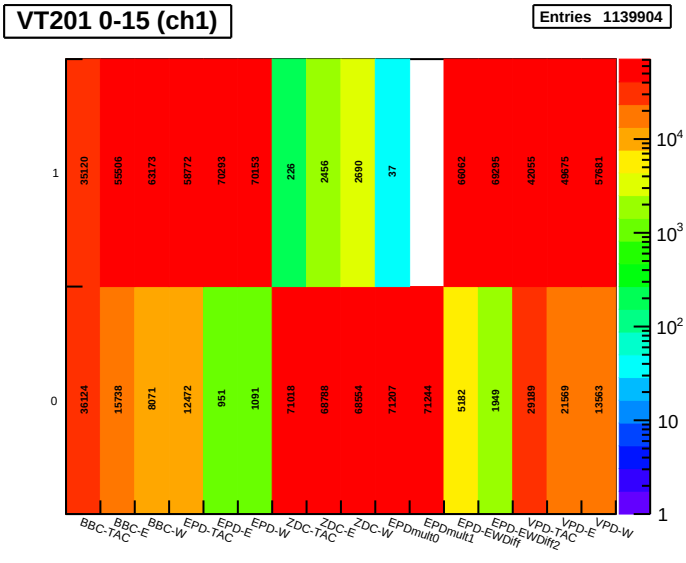

Entries 71244
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^4$
$10^3$
$10^2$
10
1

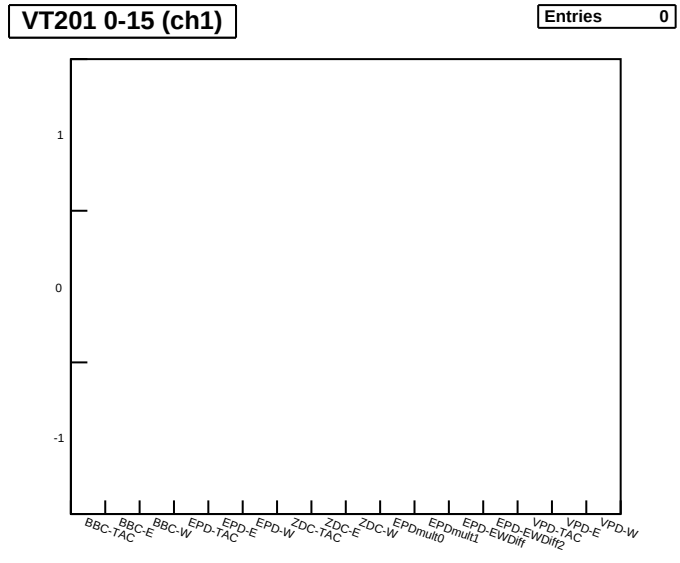

Laser Input Bits
Entries 71244
$10^5$
$10^4$
$10^3$
$10^2$
No L,No D
L,No D
D, No L
L,D

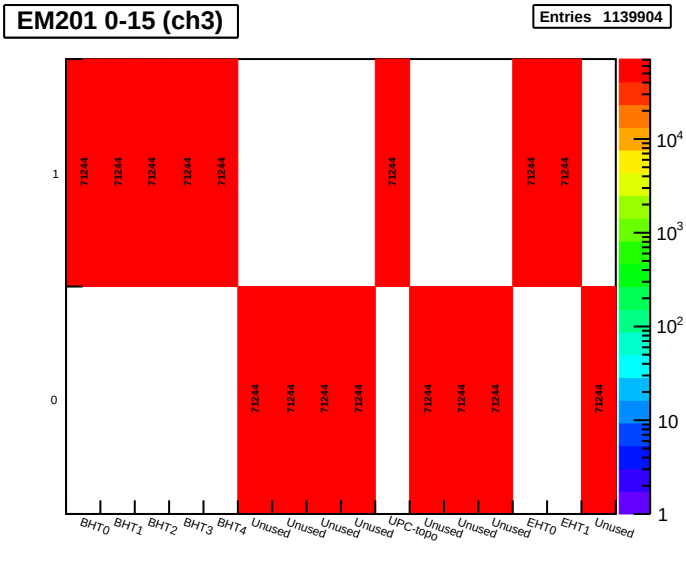

ST201 0-15 (ch6)
Entries 1139904
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
71244
71243
1
$10^4$
$10^3$
$10^2$
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

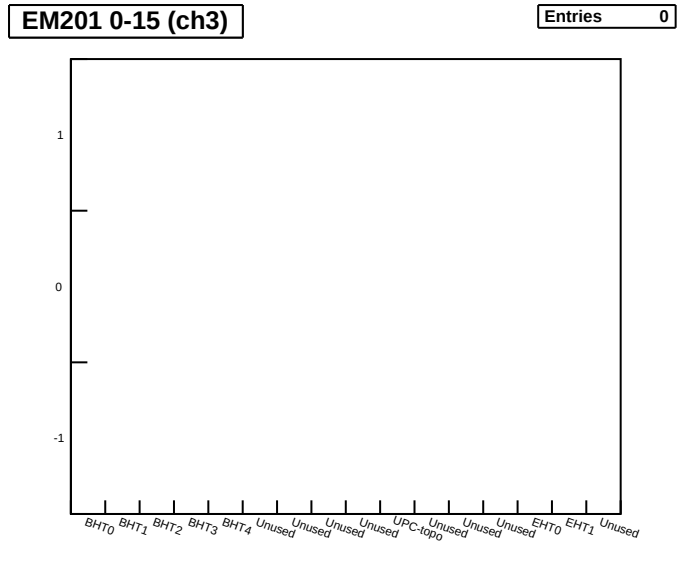

TF201 0-15 (ch0)
Entries 1139904
1
0
71244 70301 64942 62238 47378 59983 60180 59401 71244 71244 71244
71244 71244 71244 943 6302 8946 23866 71244 11261 11064 11843 71244
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused 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 Unused


VT201 0-15 (ch1)
Entries 1139904
1
0
35120 55506 63173 58772 70293 70153 226 2456 2690 37 65062 69295 42055 49675 57681
36124 15738 8071 12472 951 1091 71018 68788 68554 71207 71244 5182 1949 29189 21569 13563
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 1139904
1
0
71244 71244 71244 71244 71244 71244 71244 71244
71244 71244 71244 71244 71244 71244 71244 71244
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