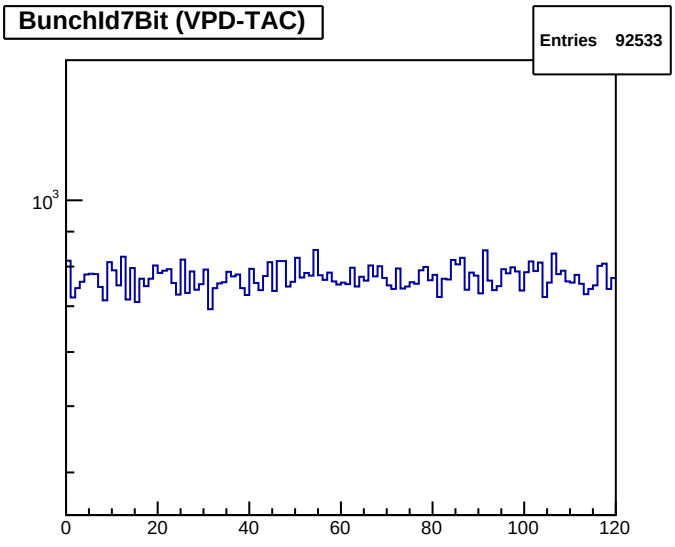
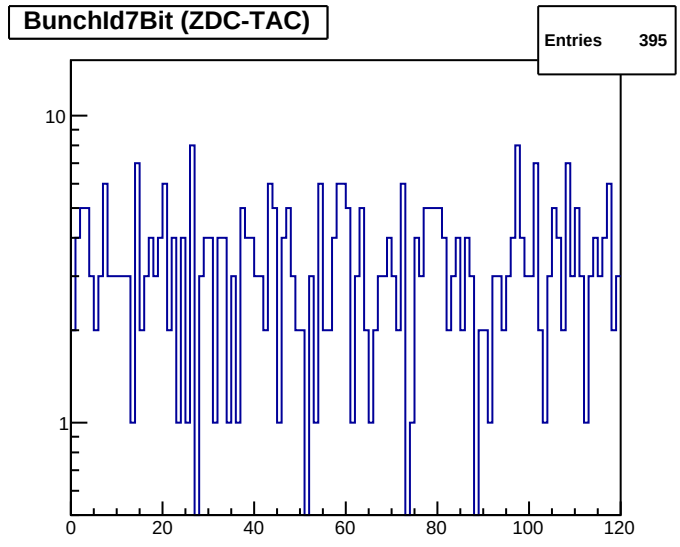
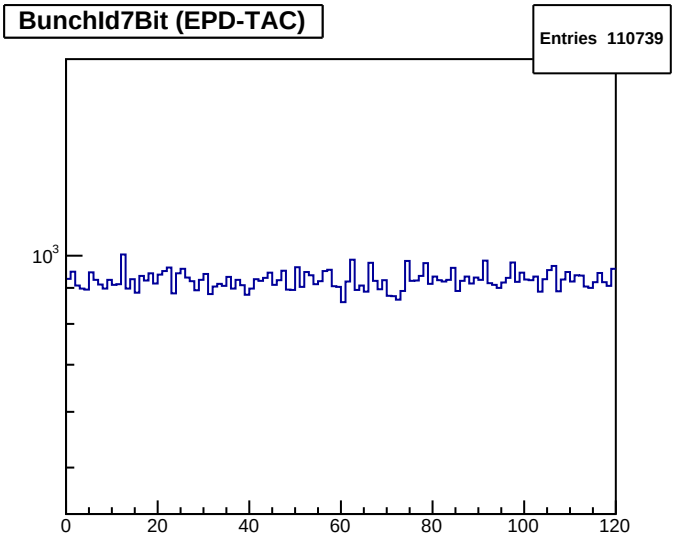
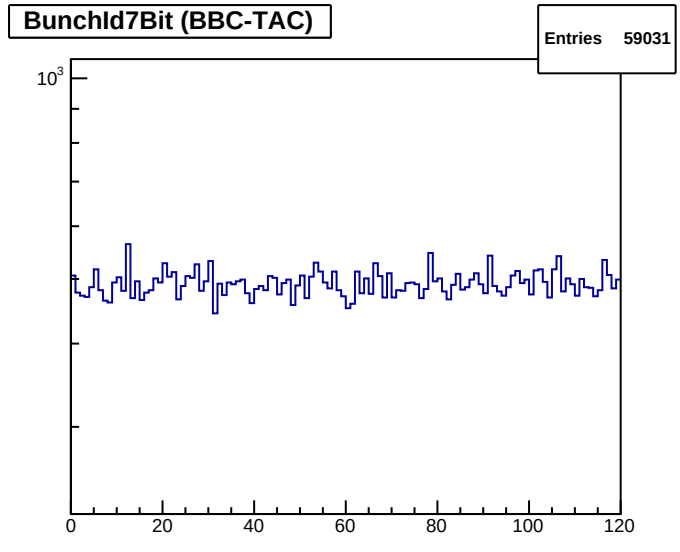
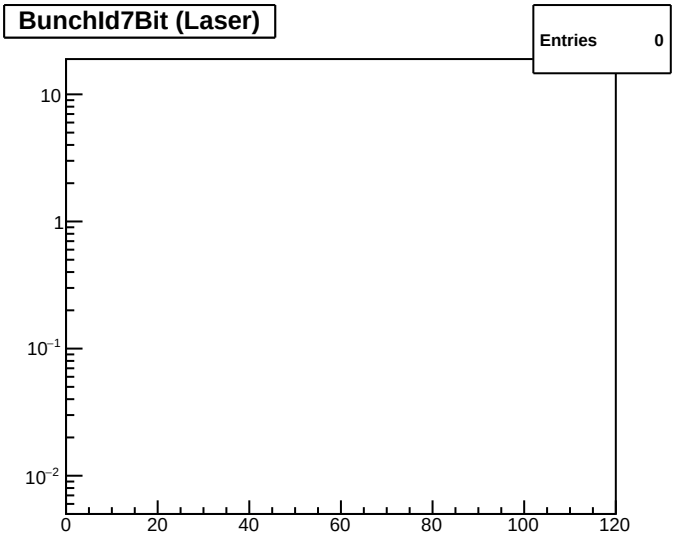
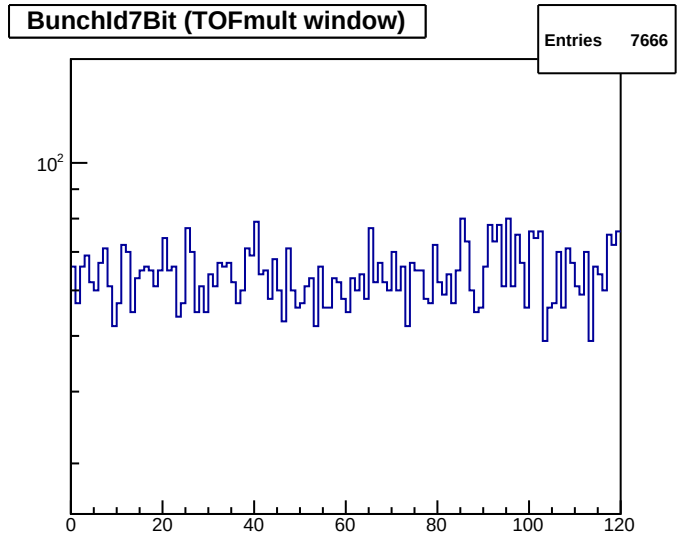

BunchId7Bit (VPD-TAC)
Entries 92533
10^3
0 20 40 60 80 100 120

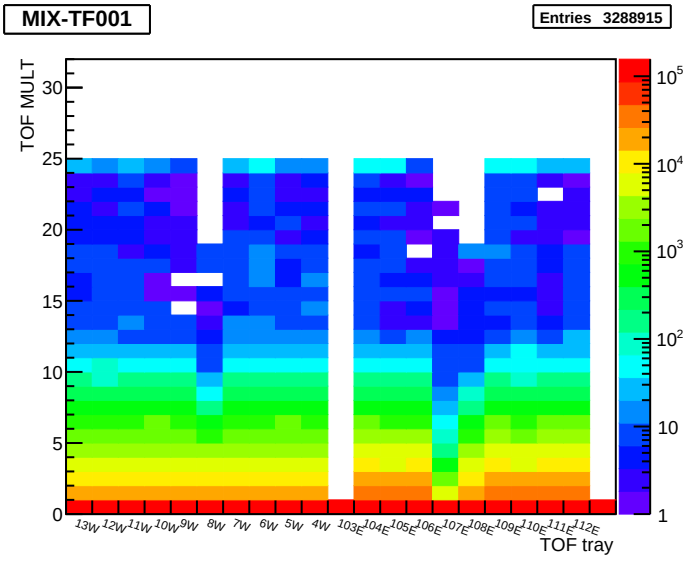

BunchId7Bit (ZDC-TAC)
Entries 395
10
1
0 20 40 60 80 100 120

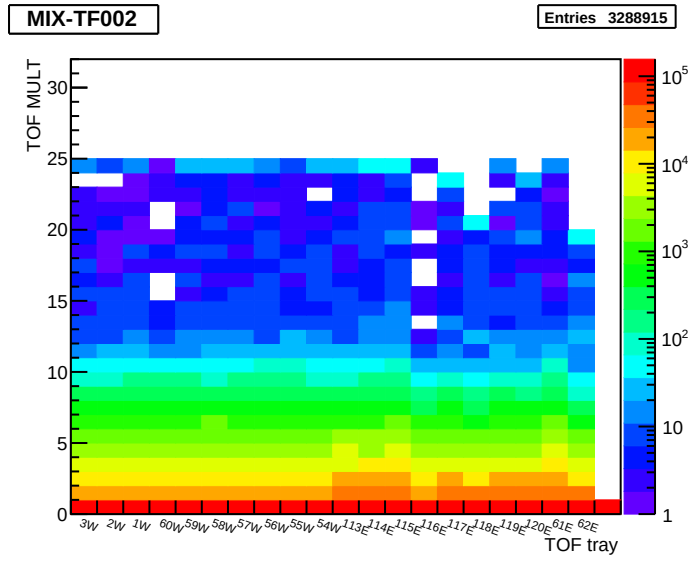

BunchId7Bit (EPD-TAC)
Entries 110739
10^3
0 20 40 60 80 100 120

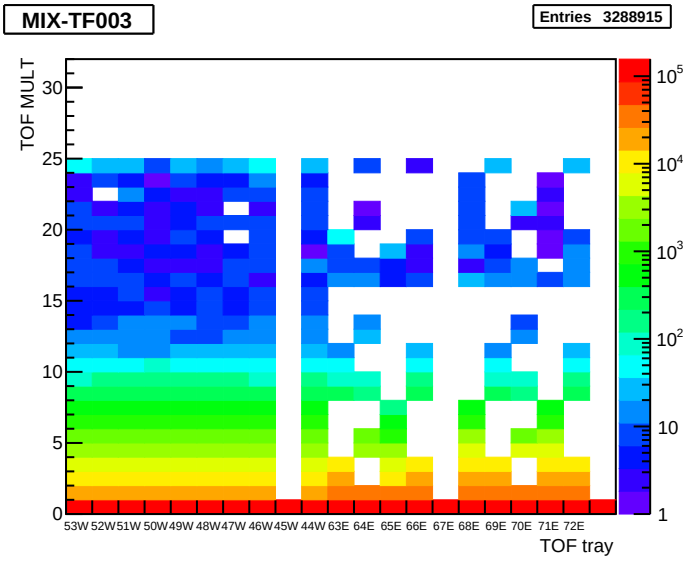

BunchId7Bit (BBC-TAC)
Entries 59031
10^3
0 20 40 60 80 100 120

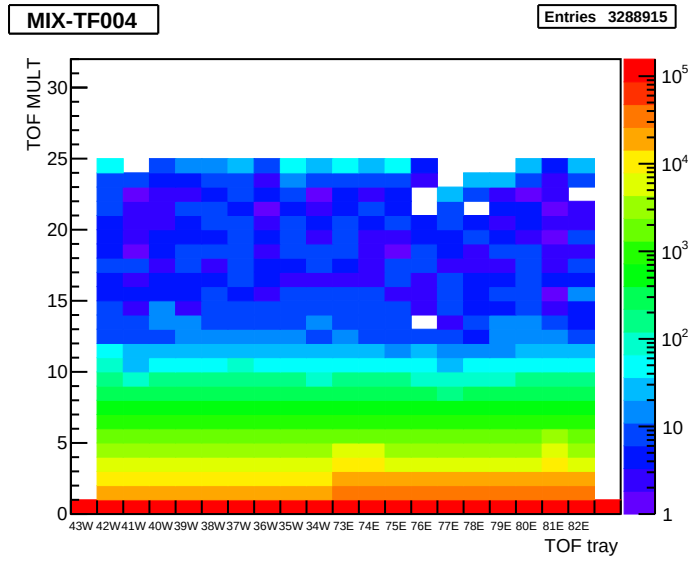

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

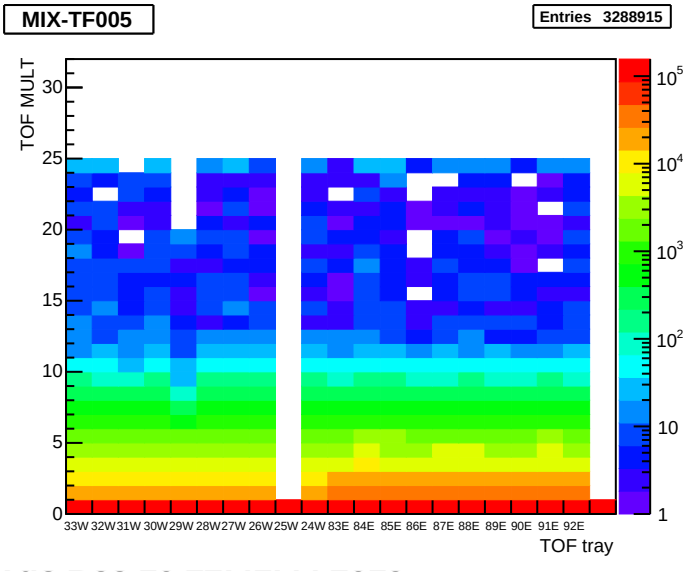

BunchId7Bit (TOFmult window)
Entries 7666
10^2
0 20 40 60 80 100 120

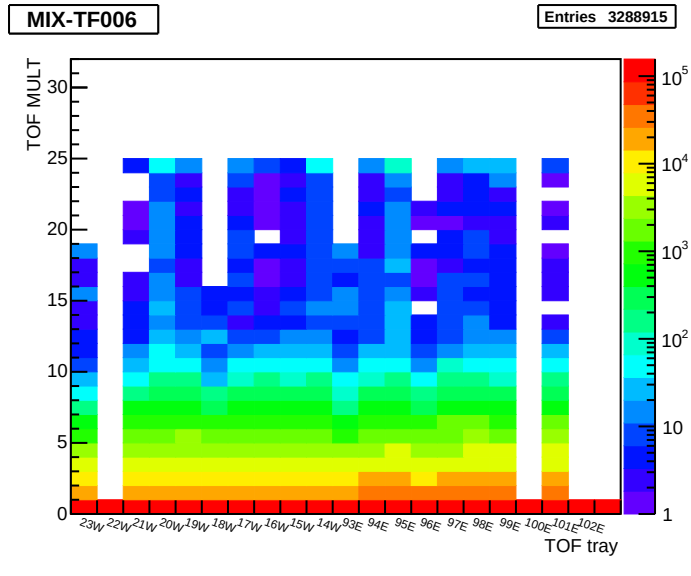

MIX-TF001
Entries 3288915
TOF MULT
TOF tray

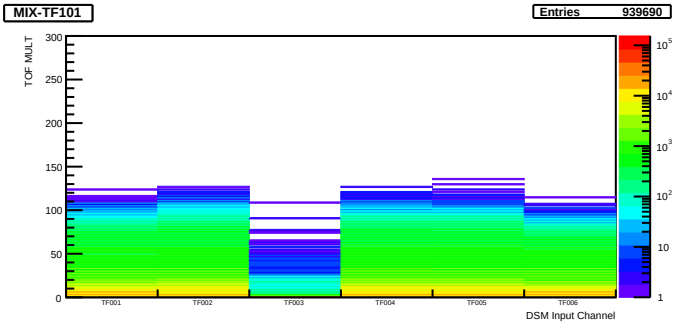

MIX-TF002
Entries 3288915
TOF MULT
TOF tray

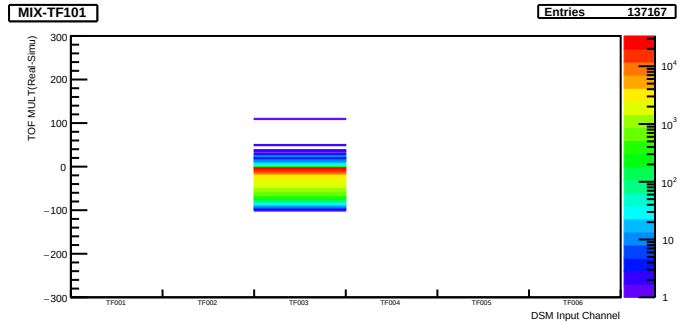

MIX-TF003
Entries 3288915
TOF MULT
TOF tray

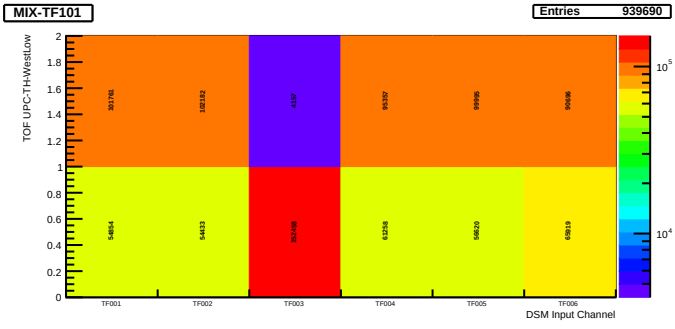

MIX-TF004
Entries 3288915
TOF MULT
TOF tray

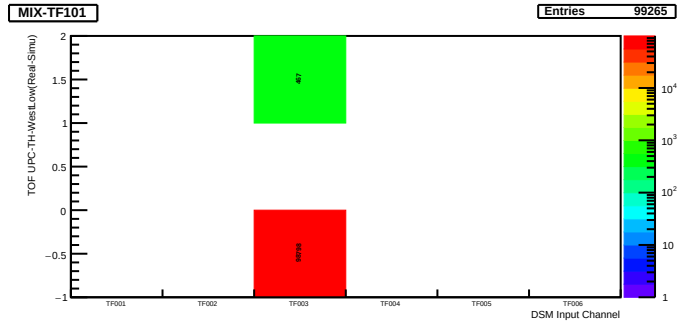

MIX-TF005
Entries 3288915
TOF MULT
TOF tray

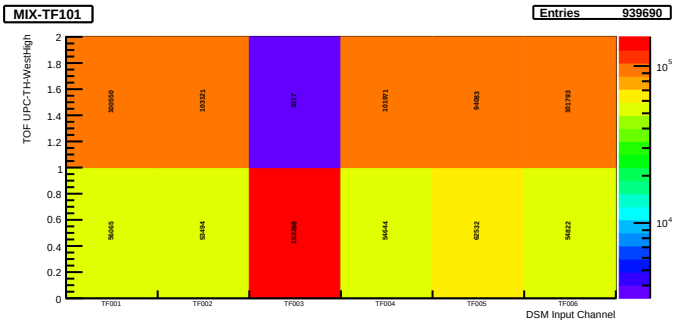

MIX-TF006
Entries 3288915
TOF MULT
TOF tray

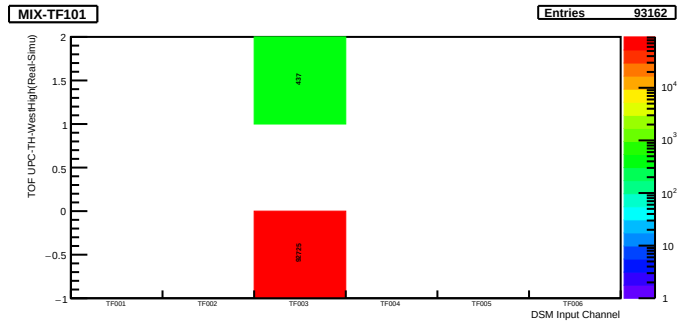

MIX-TF101
Entries 939690
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

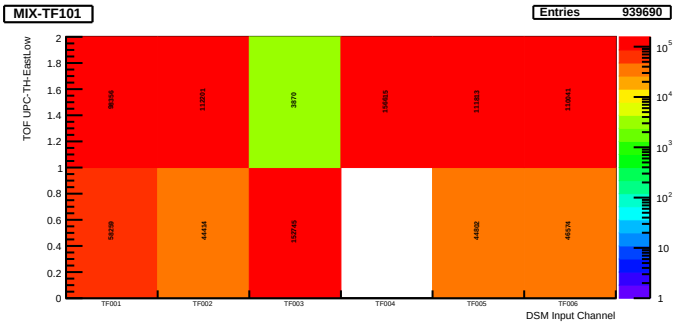

MIX-TF101
Entries 137167
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

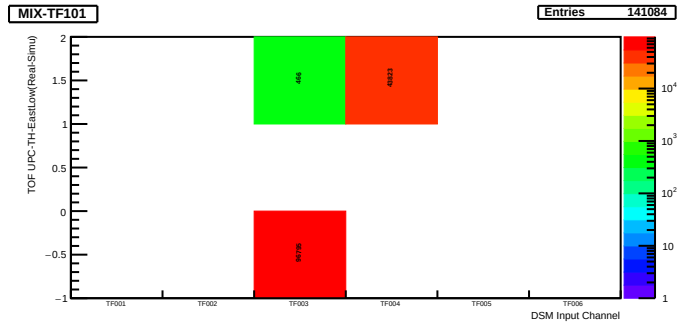

MIX-TF101
Entries 939690
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

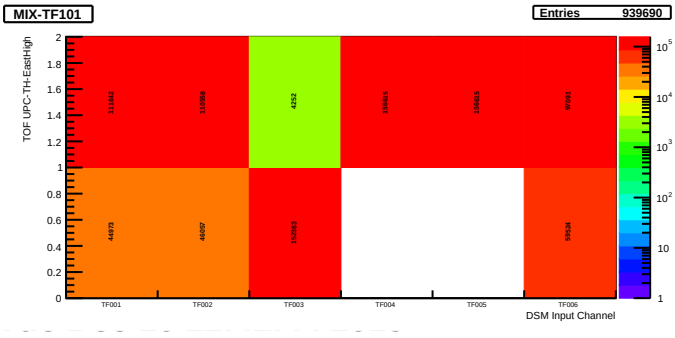

MIX-TF101
Entries 99265
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

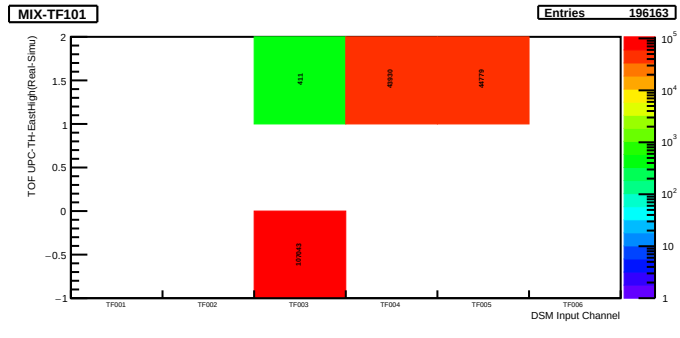

MIX-TF101
Entries 939690
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

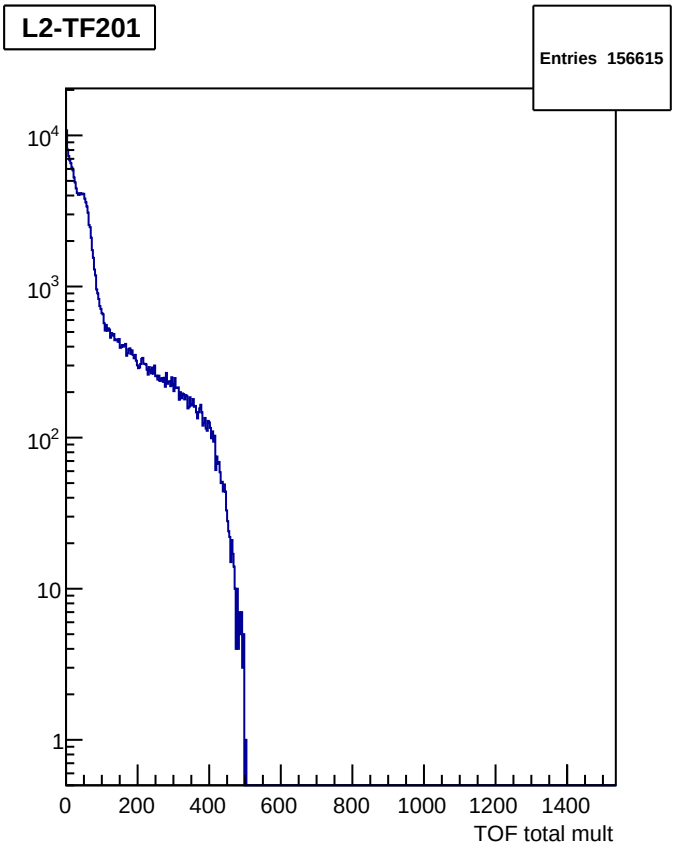

MIX-TF101
Entries 93162
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

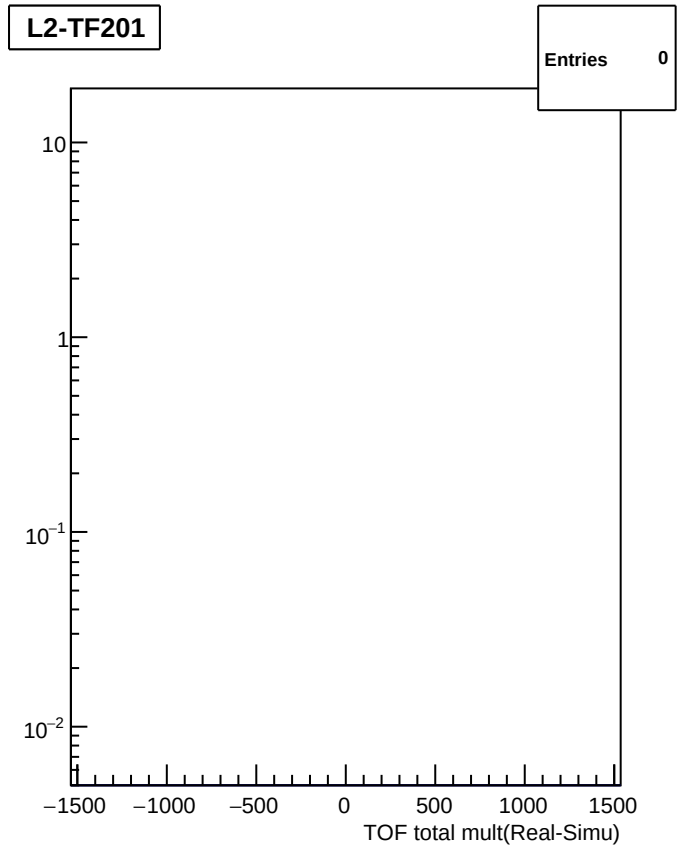

MIX-TF101
Entries 939690
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

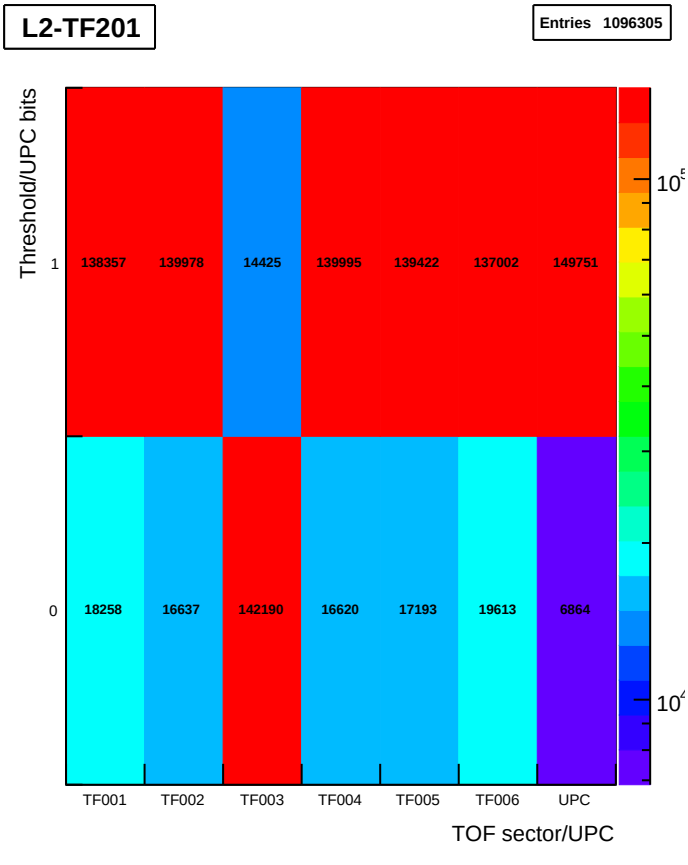

MIX-TF101
Entries 141084
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

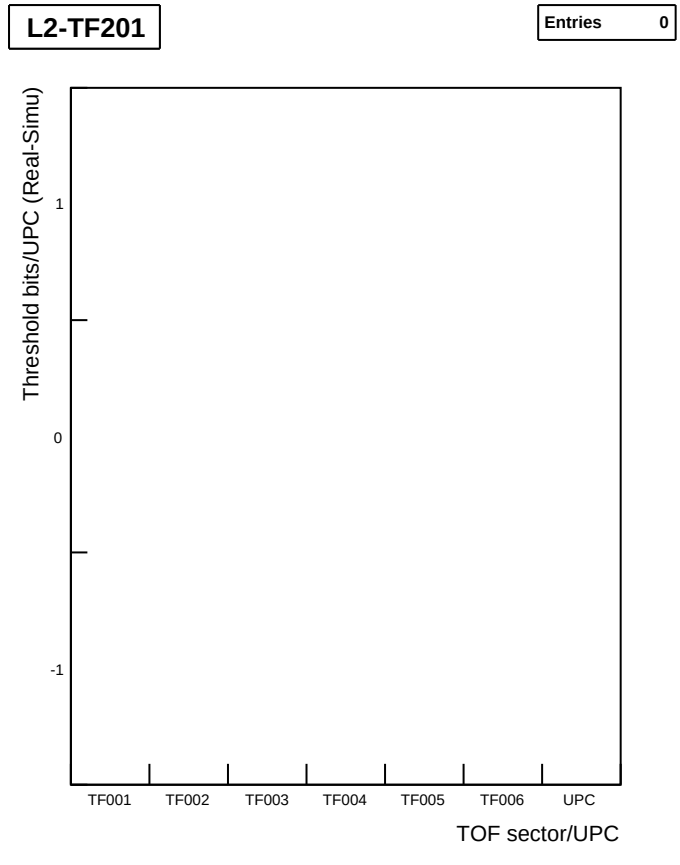

MIX-TF101
Entries 939690
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

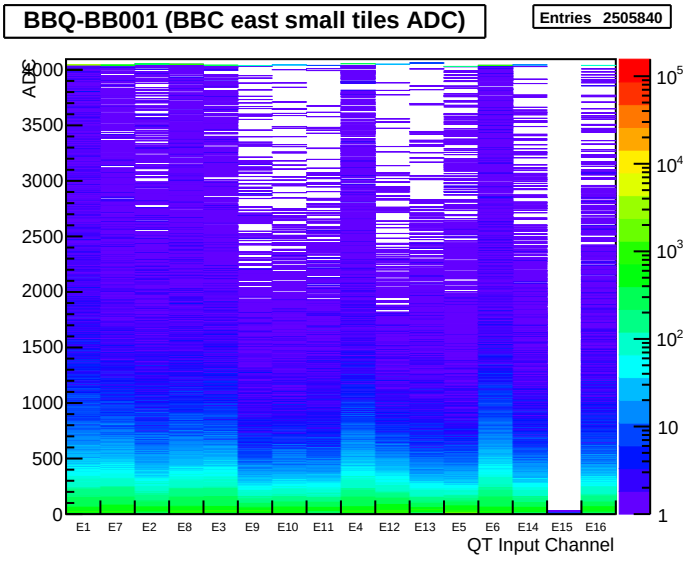

MIX-TF101
Entries 196163
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

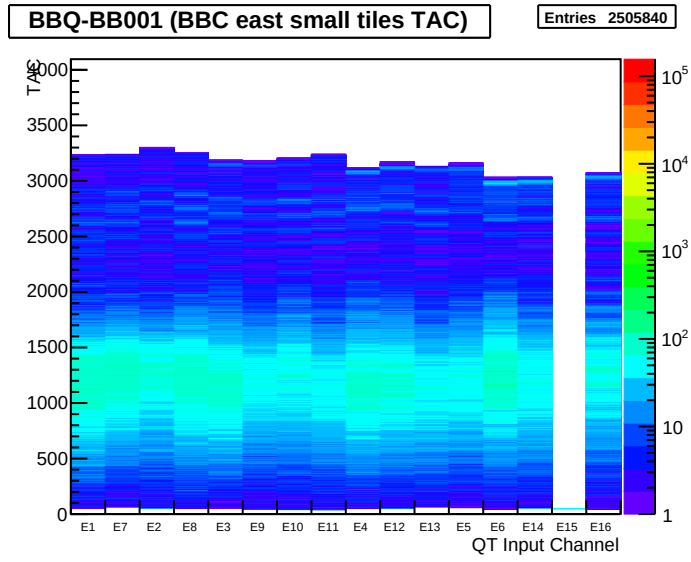

L2-TF201
Entries 156615
TOF total mult

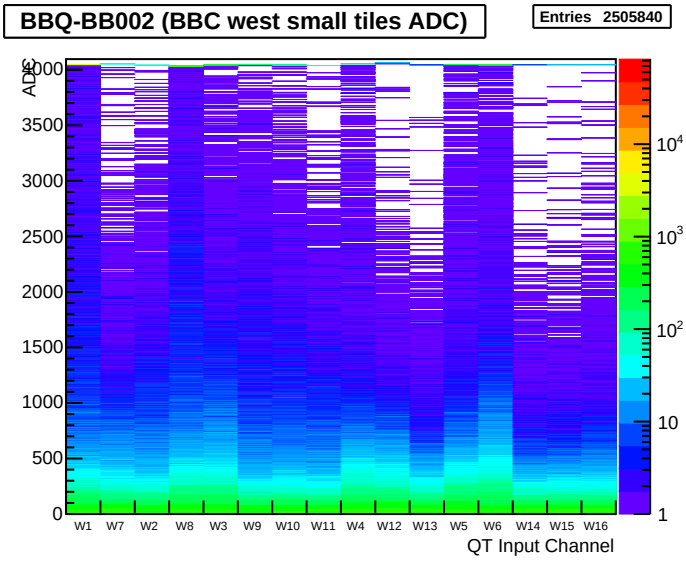

L2-TF201
Entries 0
TOF total mult(Real-Simu)

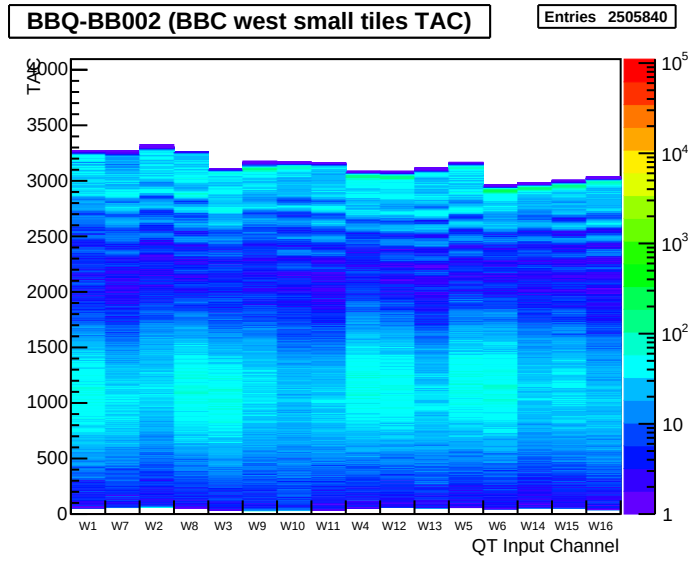

L2-TF201
Entries 1096305
Threshold/UPC bits
138357
139978
14425
139995
139422
137002
149751
18258
16637
142190
16620
17193
19613
6864
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

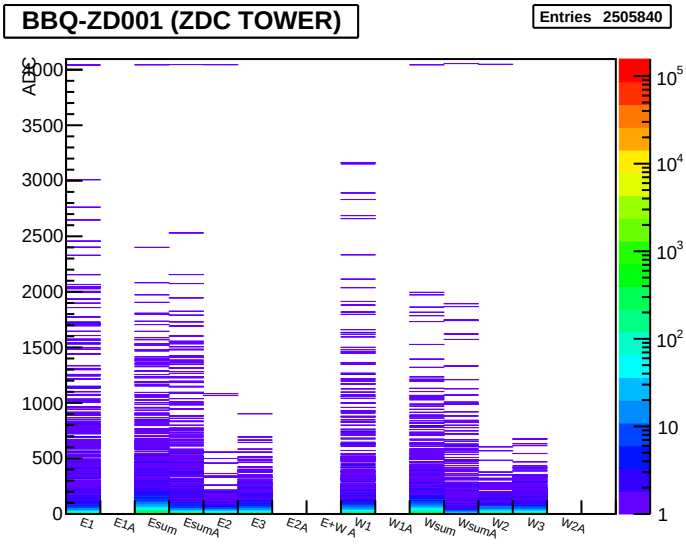

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

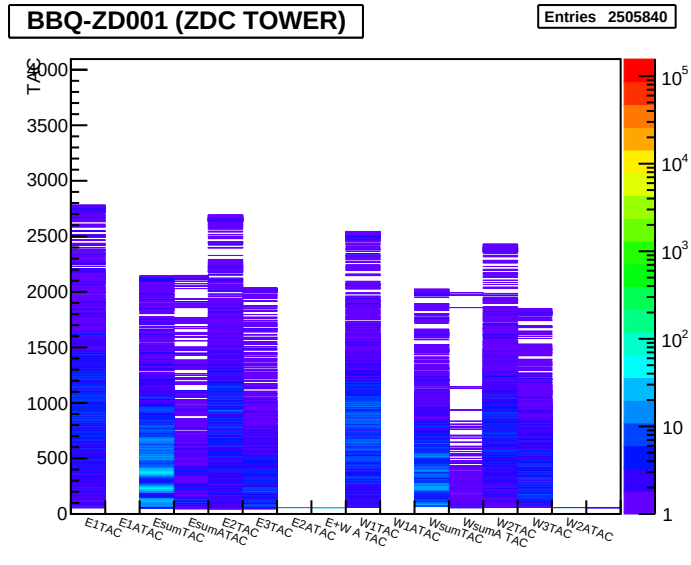

BBQ-BB001 (BBC east small tiles ADC)
Entries 2505840
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

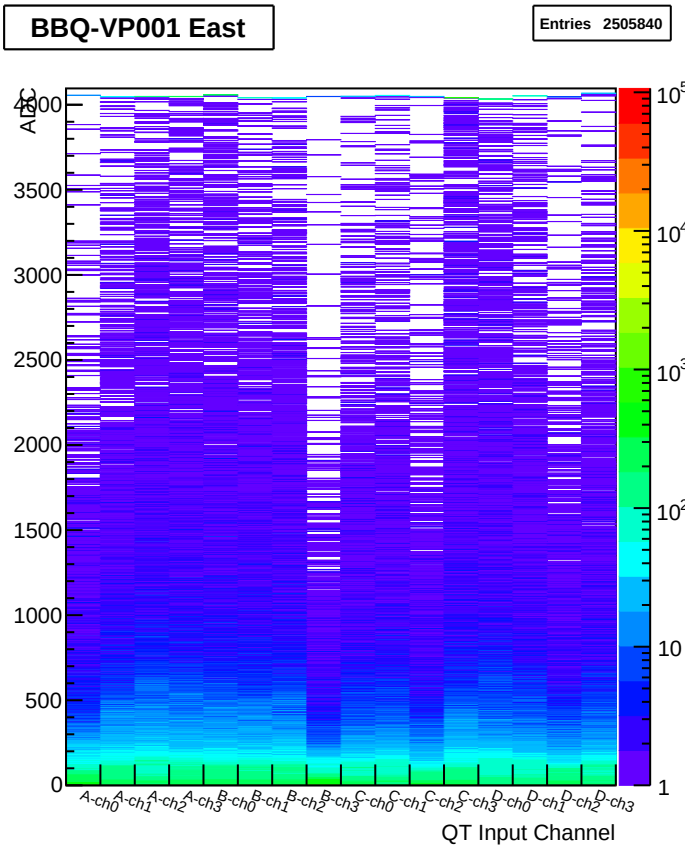

BBQ-BB001 (BBC east small tiles TAC)
Entries 2505840
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

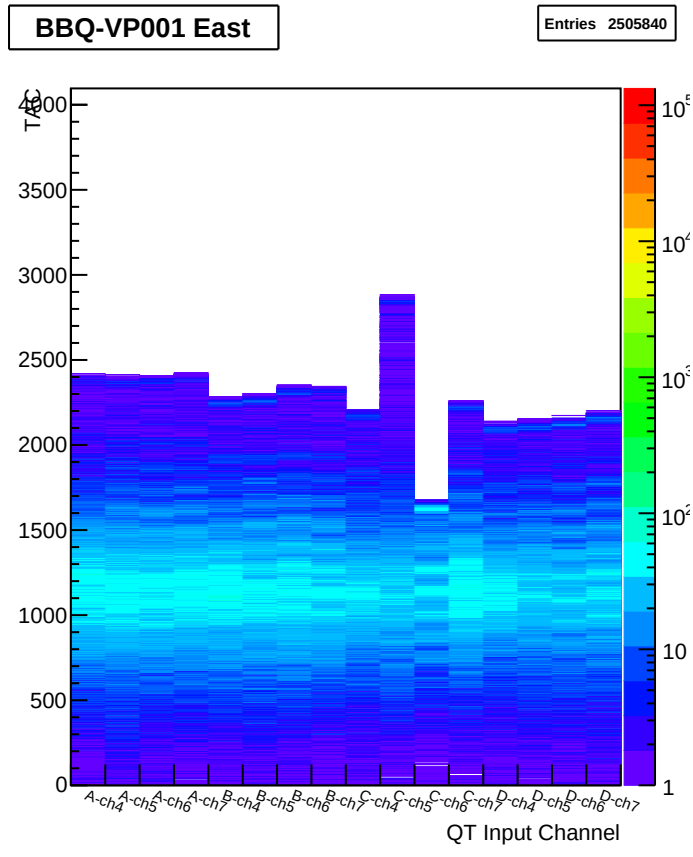

BBQ-BB002 (BBC west small tiles ADC)
Entries 2505840
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

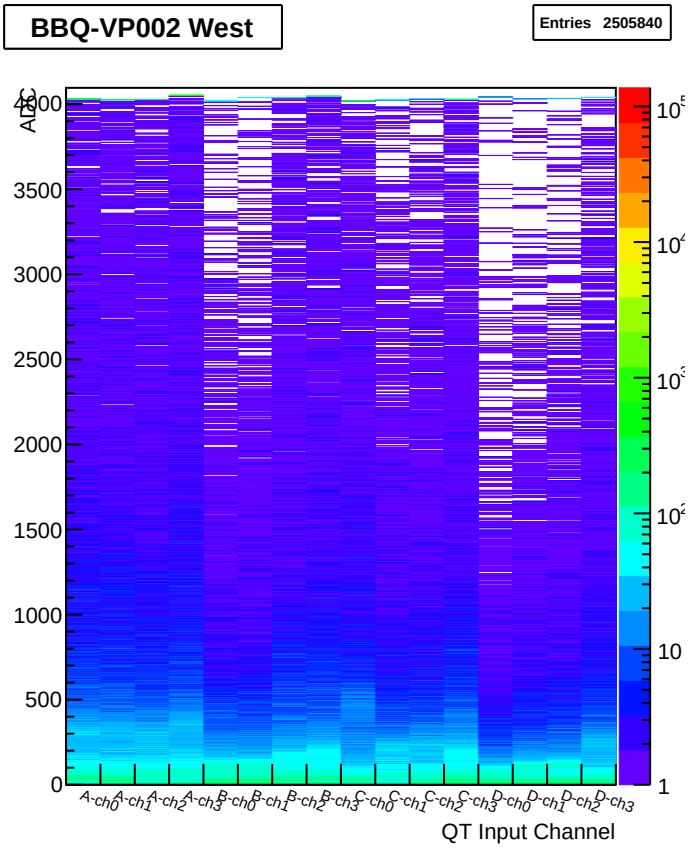

BBQ-BB002 (BBC west small tiles TAC)
Entries 2505840
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

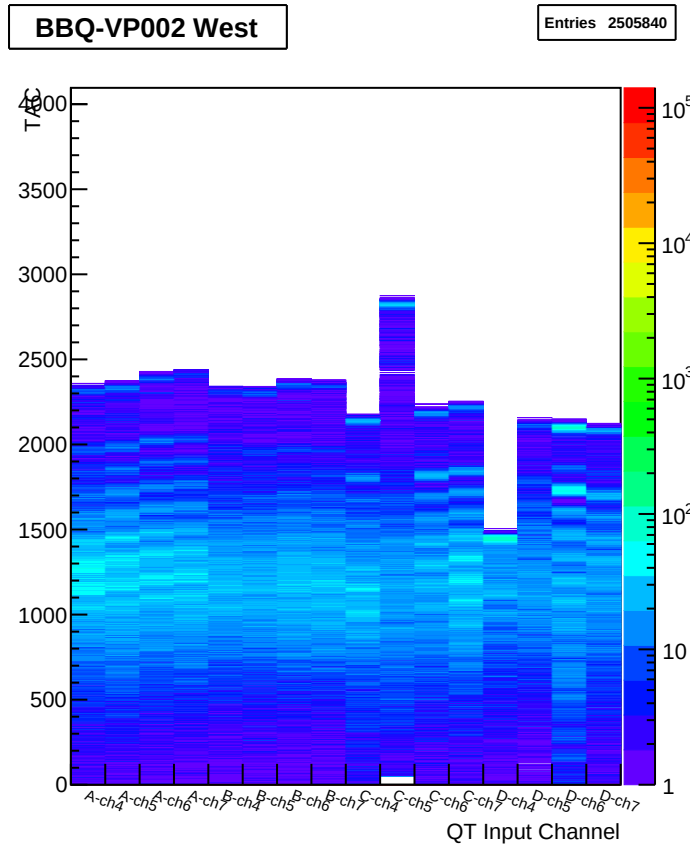

BBQ-ZD001 (ZDC TOWER)
Entries 2505840
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

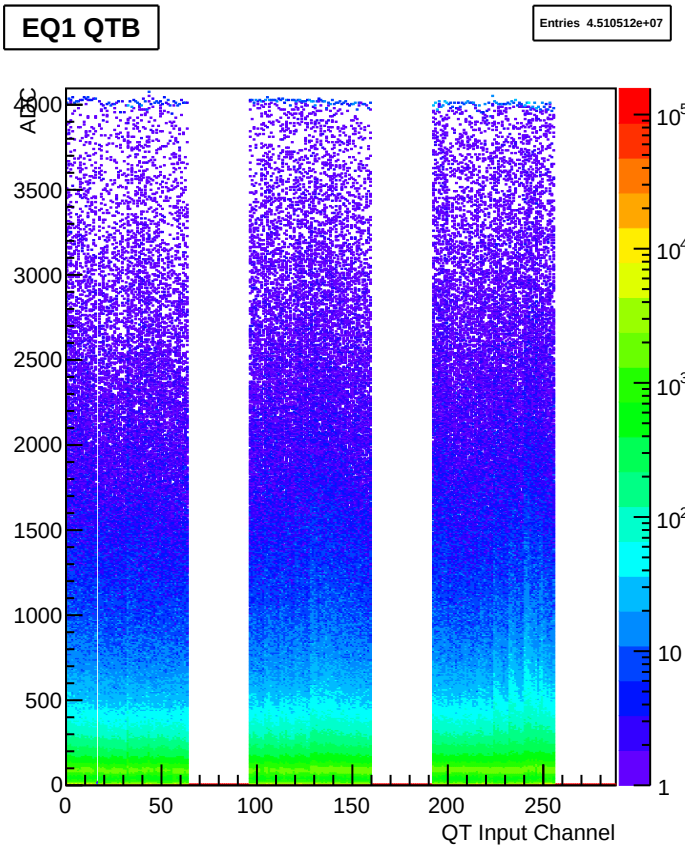

BBQ-ZD001 (ZDC TOWER)
Entries 2505840
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

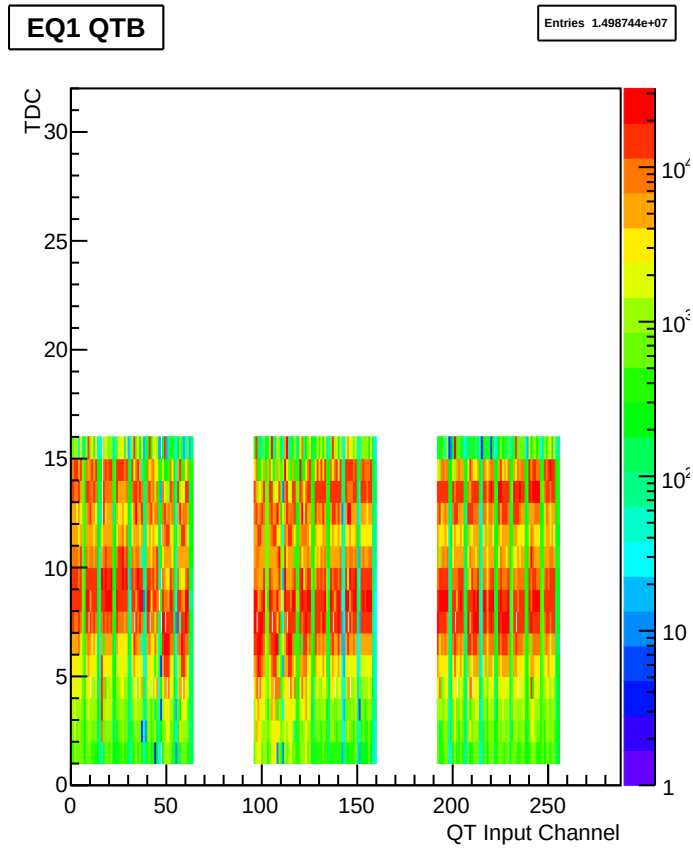

BBQ-VP001 East
Entries 2505840
ADC
QT Input Channel

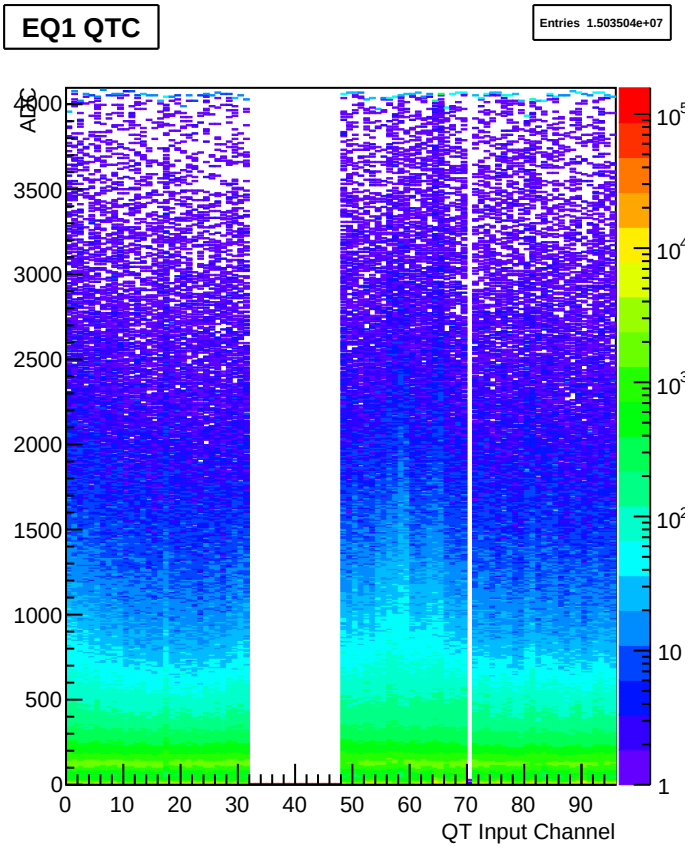

BBQ-VP001 East
Entries 2505840
TADC
QT Input Channel

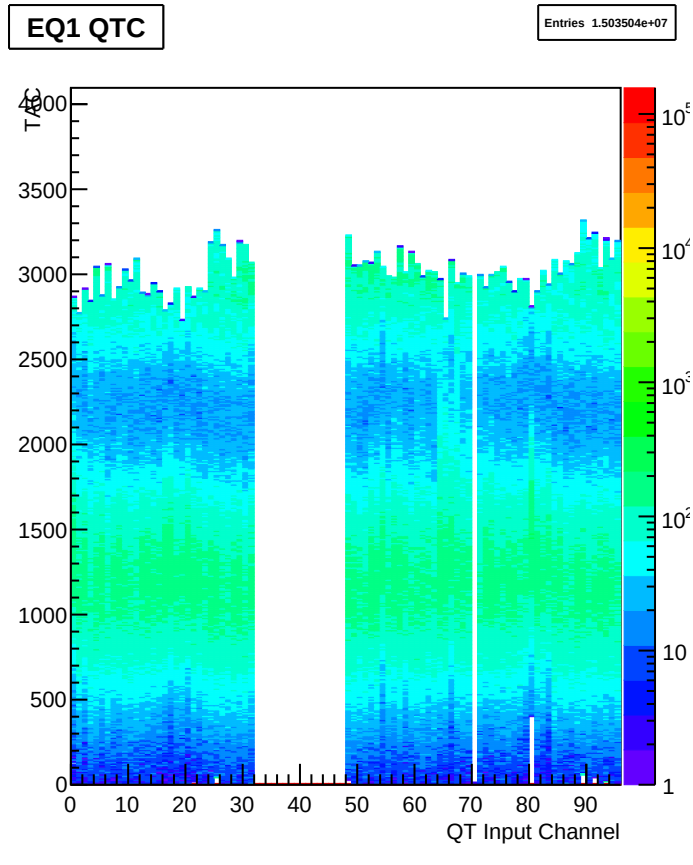

BBQ-VP002 West
Entries 2505840
ADC
QT Input Channel

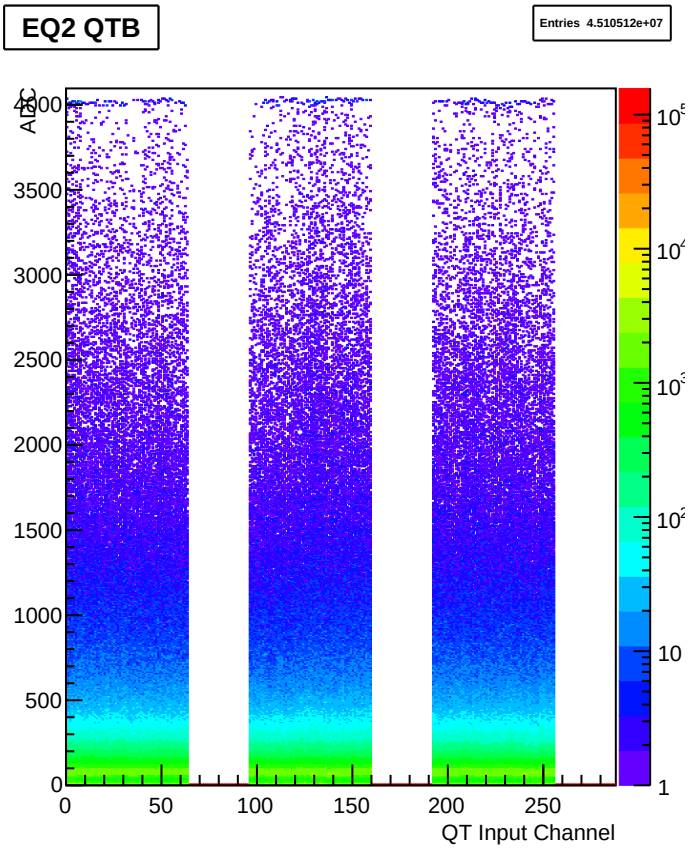

BBQ-VP002 West
Entries 2505840
TADC
QT Input Channel

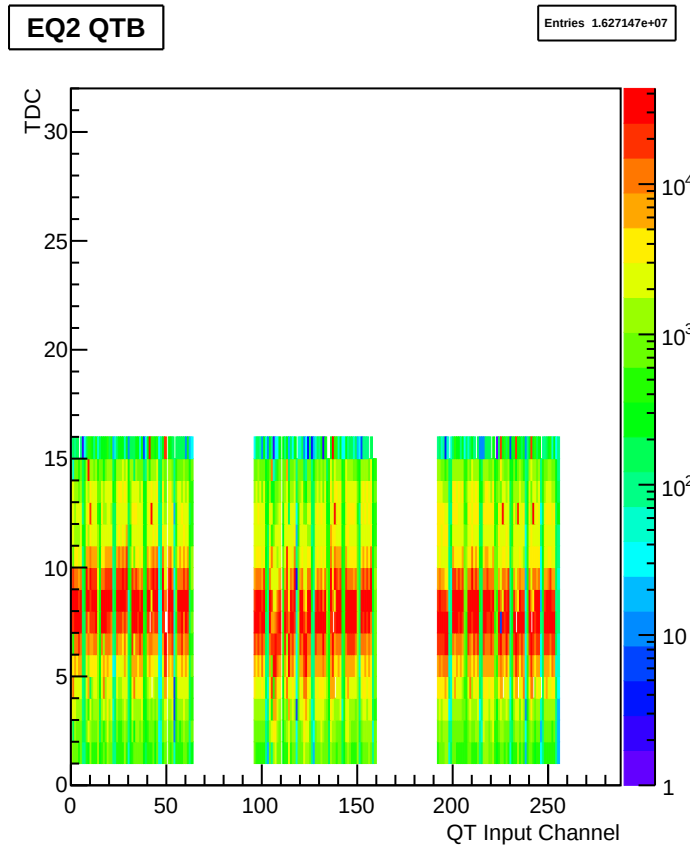

EQ1 QTB
Entries 4.510512e+07
ADC
QT Input Channel

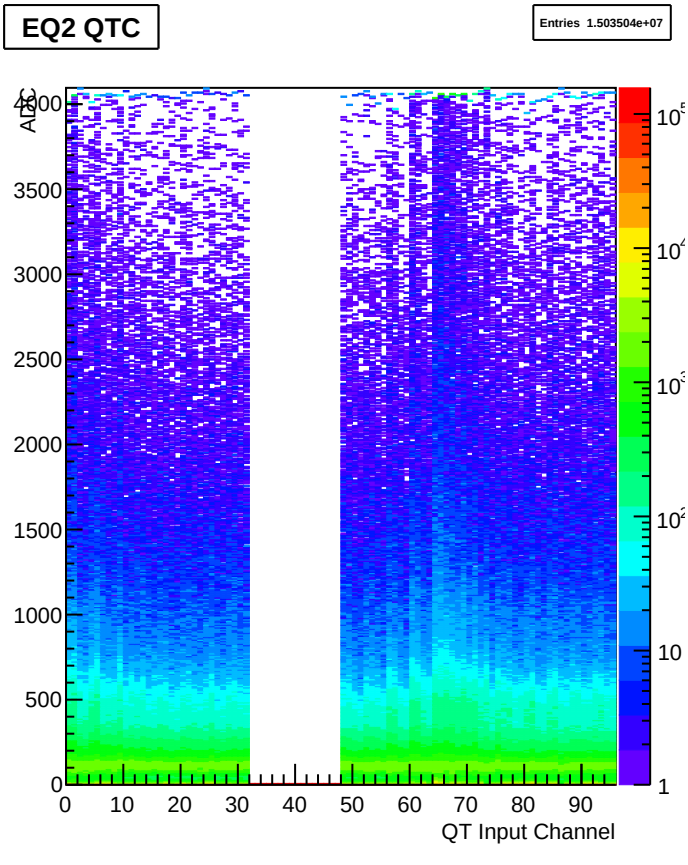

EQ1 QTB
Entries 1.498744e+07
TDC
QT Input Channel

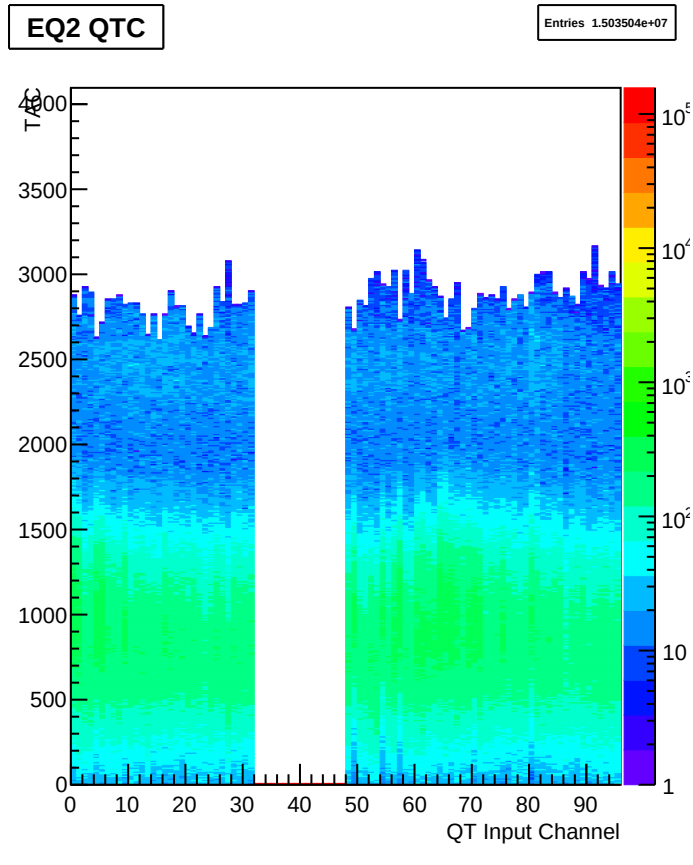

EQ1 QTC
Entries 1.503504e+07
ADC
QT Input Channel

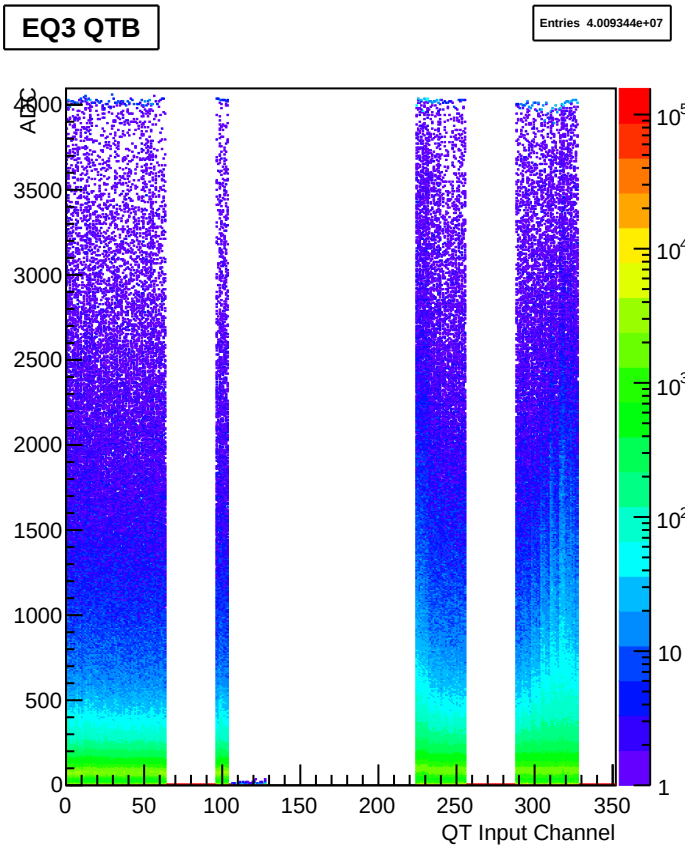

EQ1 QTC
Entries 1.503504e+07
TADC
QT Input Channel

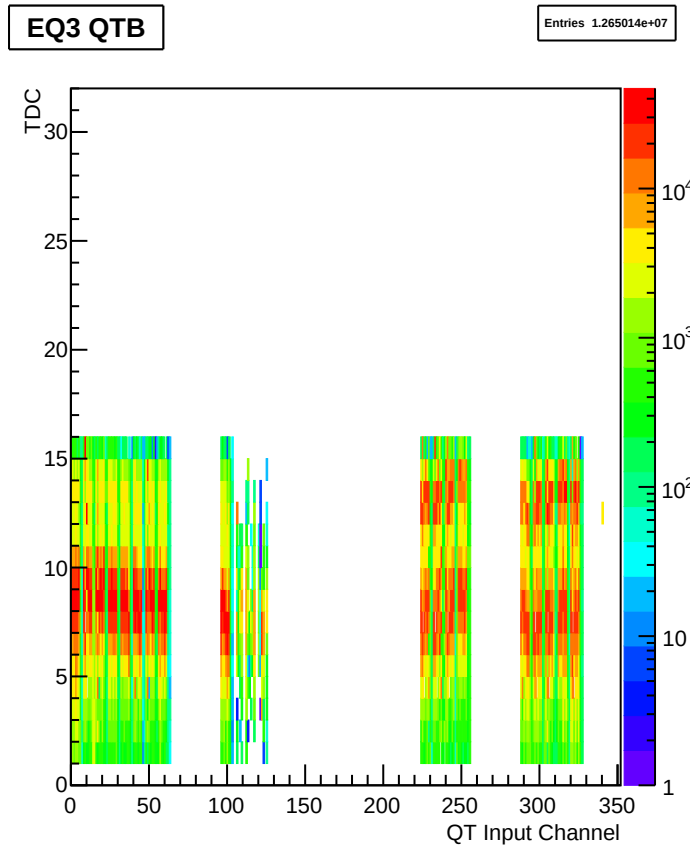

EQ2 QTB
Entries 4.510512e+07
ADC
QT Input Channel

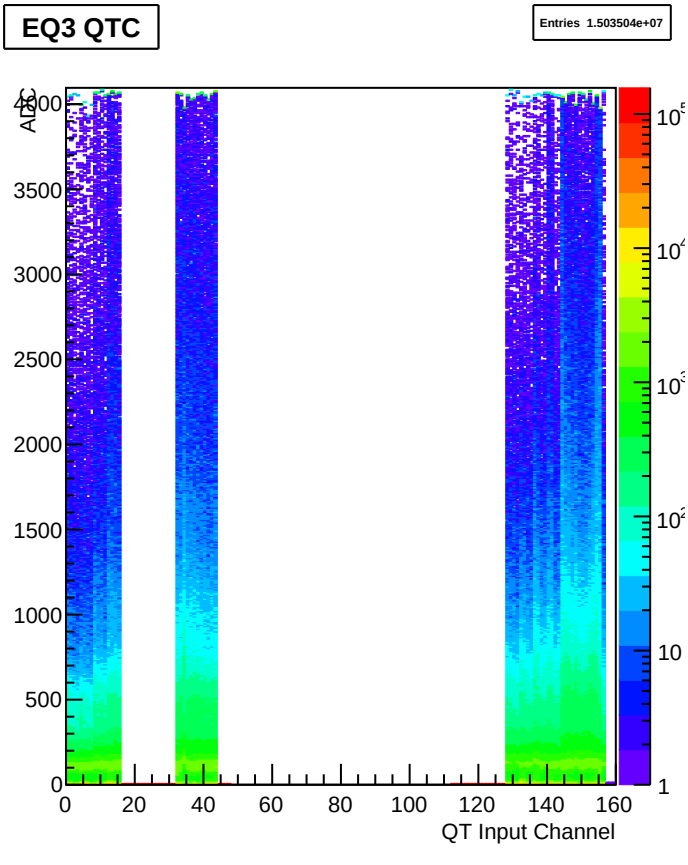

EQ2 QTB
Entries 1.627147e+07
TDC
QT Input Channel

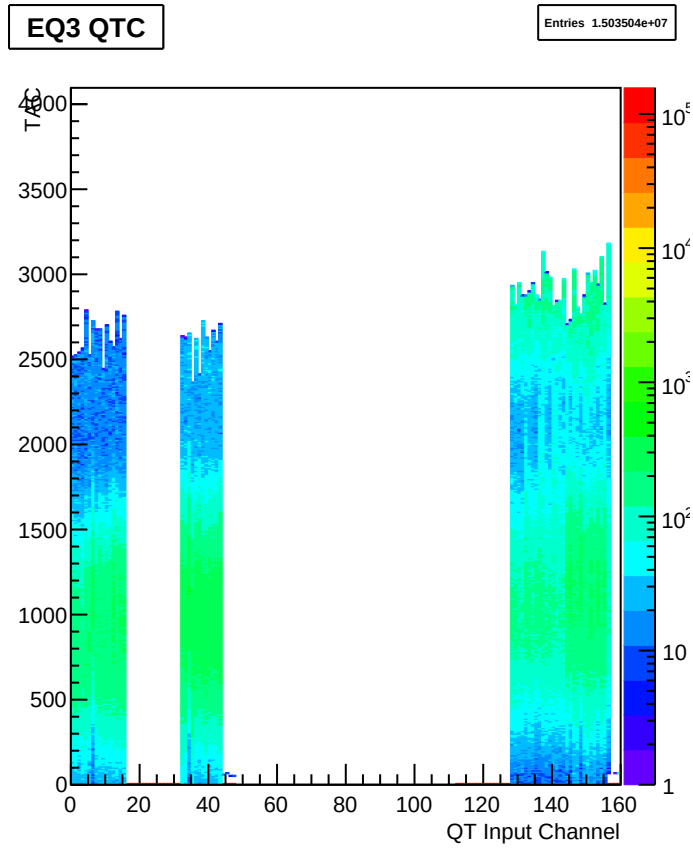

EQ2 QTC
Entries 1.503504e+07
ADC
QT Input Channel

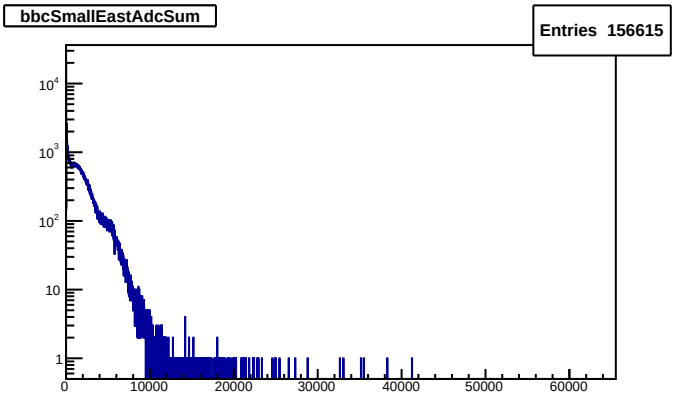

EQ2 QTC
Entries 1.503504e+07
TADC
QT Input Channel

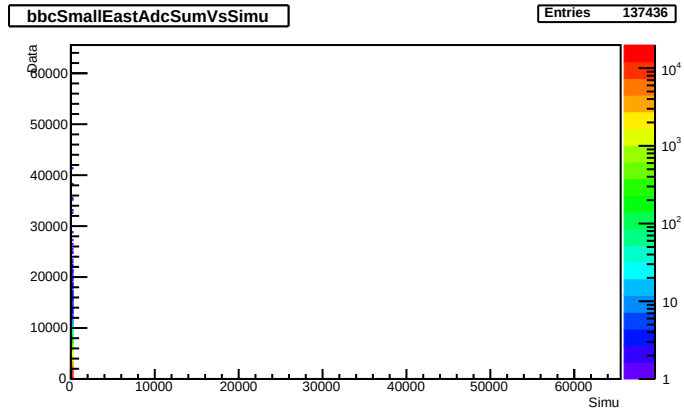

EQ3 QTB
Entries 4.009344e+07
ADC
QT Input Channel

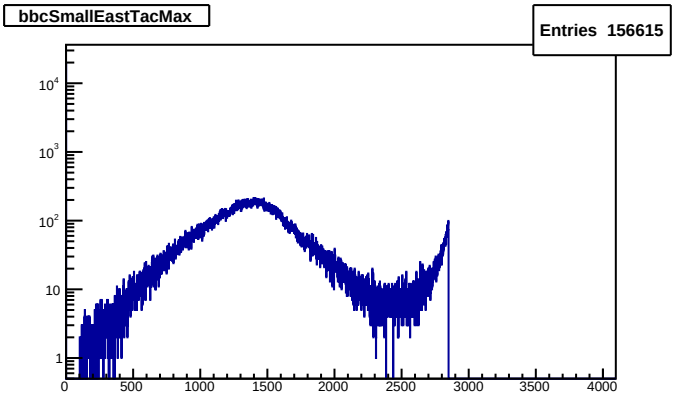

EQ3 QTB
Entries 1.265014e+07
TDC
QT Input Channel

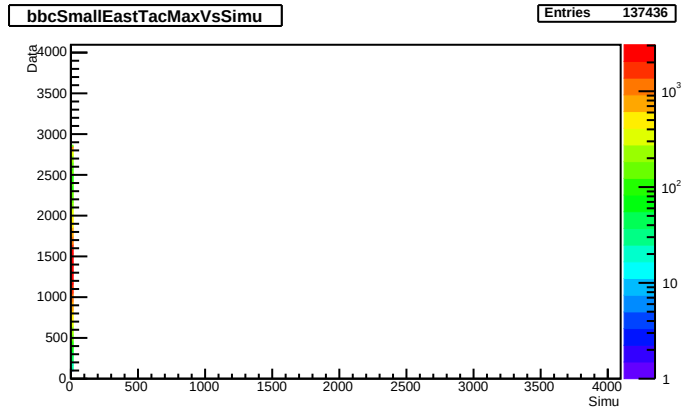

EQ3 QTC
Entries 1.503504e+07
ADC
QT Input Channel

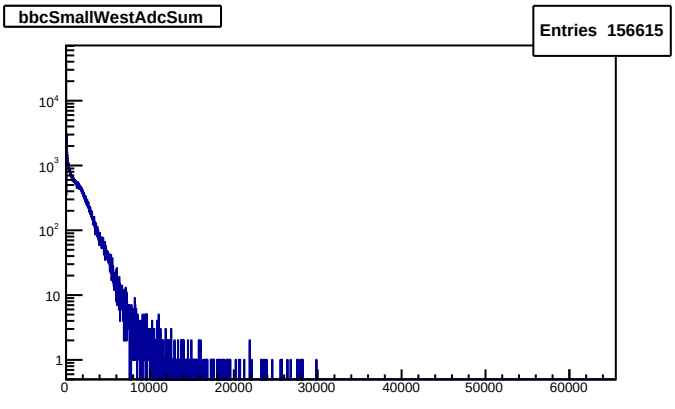

EQ3 QTC
Entries 1.503504e+07
TADC
QT Input Channel

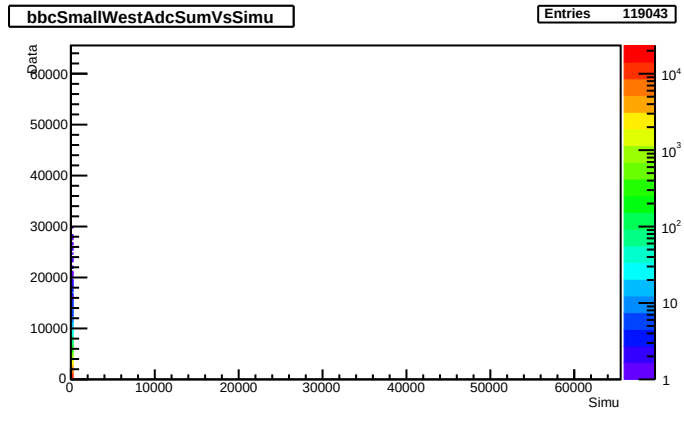

bbcSmallEastAdcSum
Entries 156615

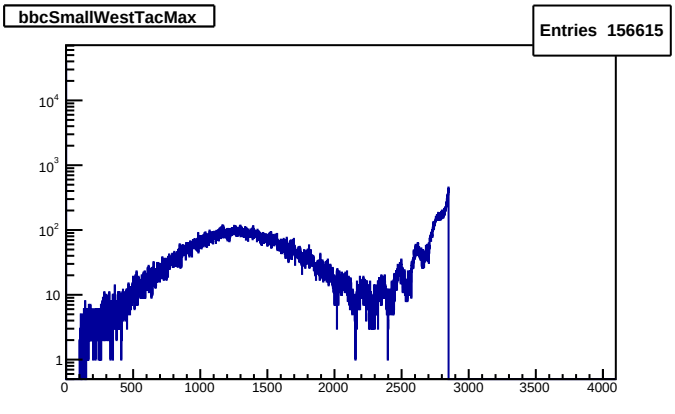

bbcSmallEastAdcSumVsSimu
Entries 137436
Data
Simu

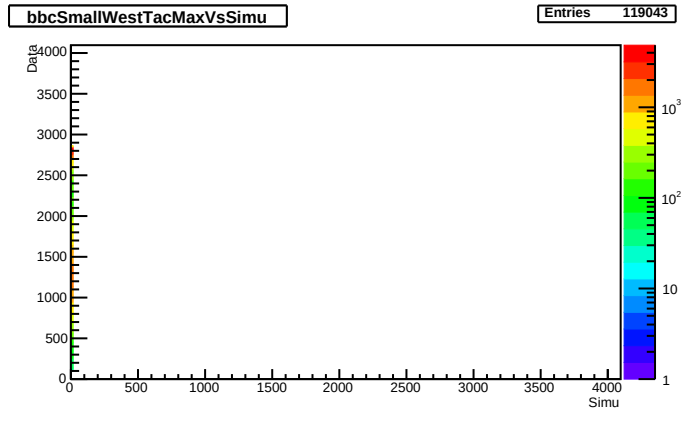

bbcSmallEastTacMax
Entries 156615

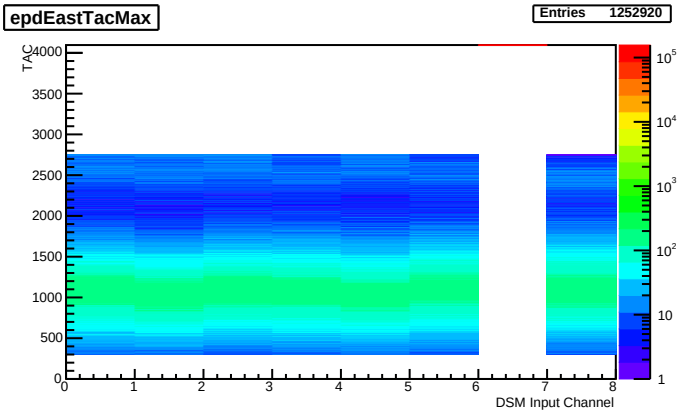

bbcSmallEastTacMaxVsSimu
Entries 137436
Data
Simu

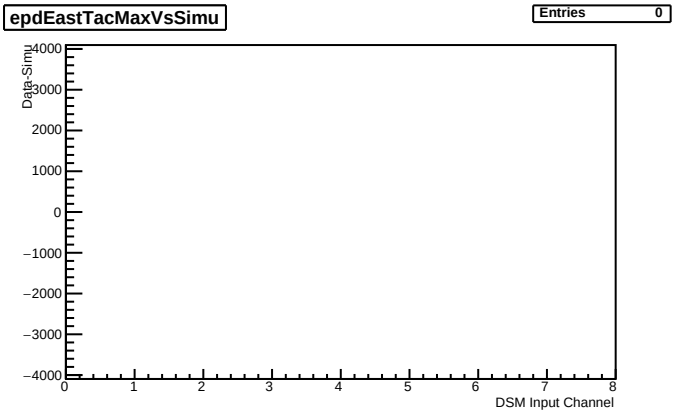

bbcSmallWestAdcSum
Entries 156615

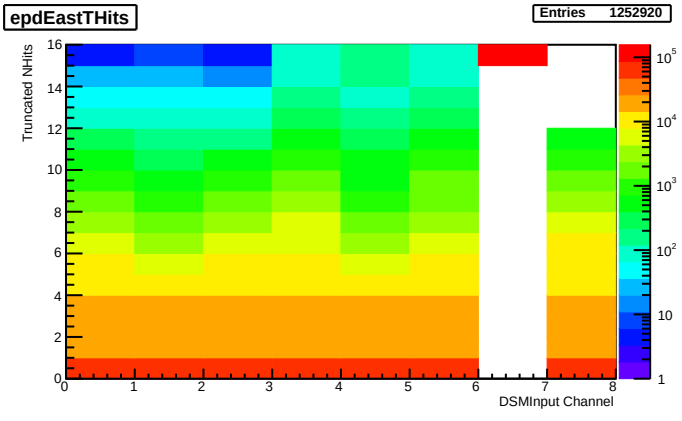

bbcSmallWestAdcSumVsSimu
Entries 119043
Data
Simu

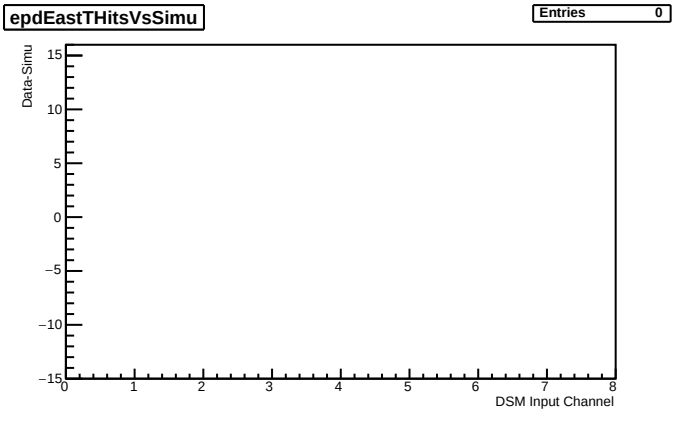

bbcSmallWestTacMax
Entries 156615

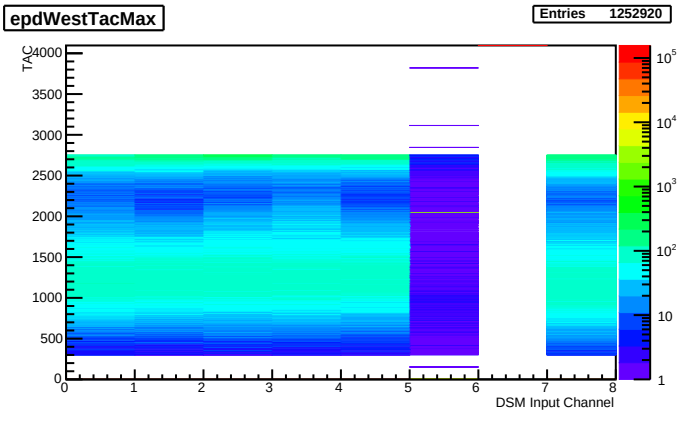

bbcSmallWestTacMaxVsSimu
Entries 119043
Data
Simu

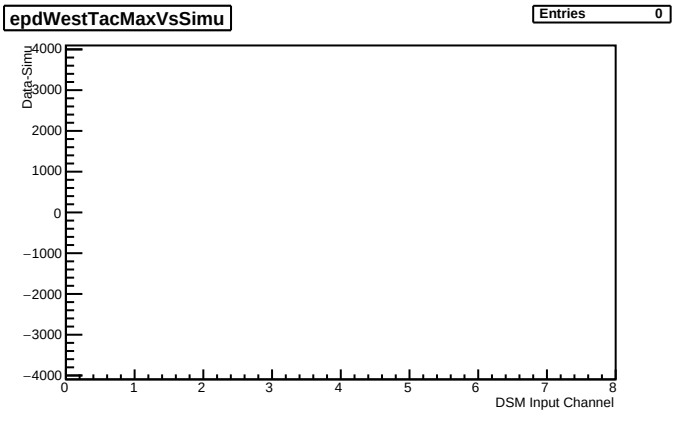

epdEastTacMax
Entries 1252920
TAC
DSM Input Channel

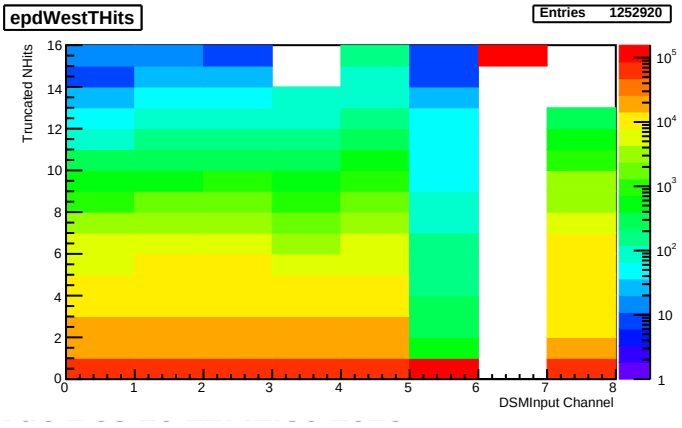

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

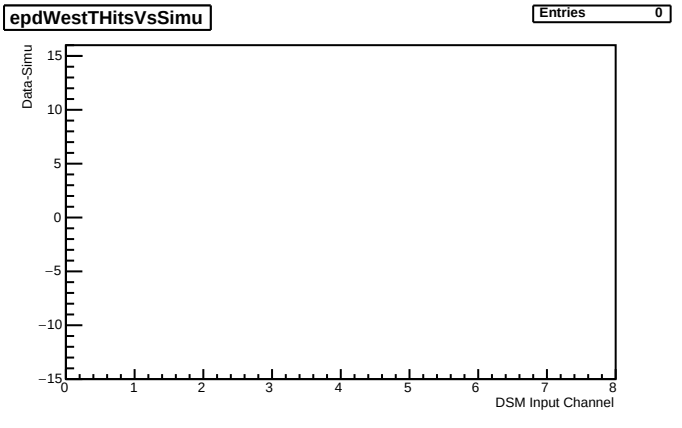

epdEastTHits
Entries 1252920
Truncated NHits
DSMInput Channel

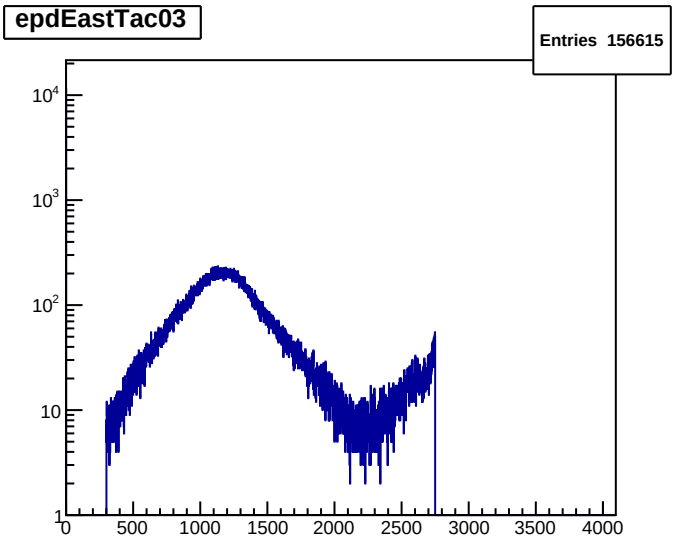

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

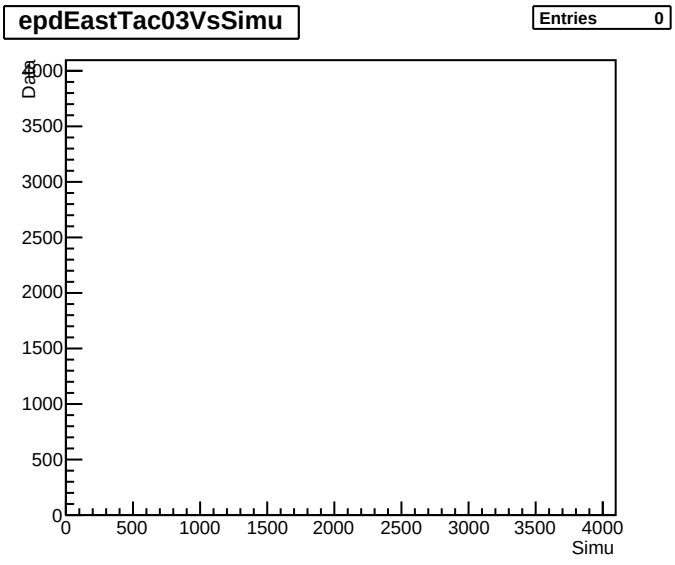

epdWestTacMax
Entries 1252920
TAC
DSM Input Channel

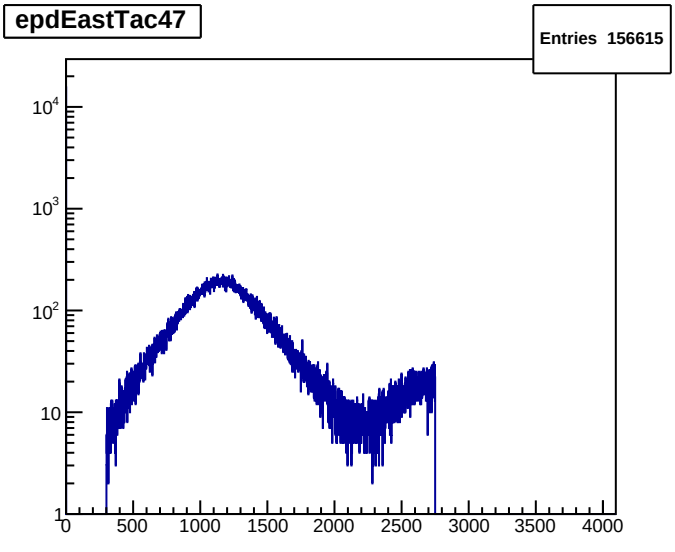

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

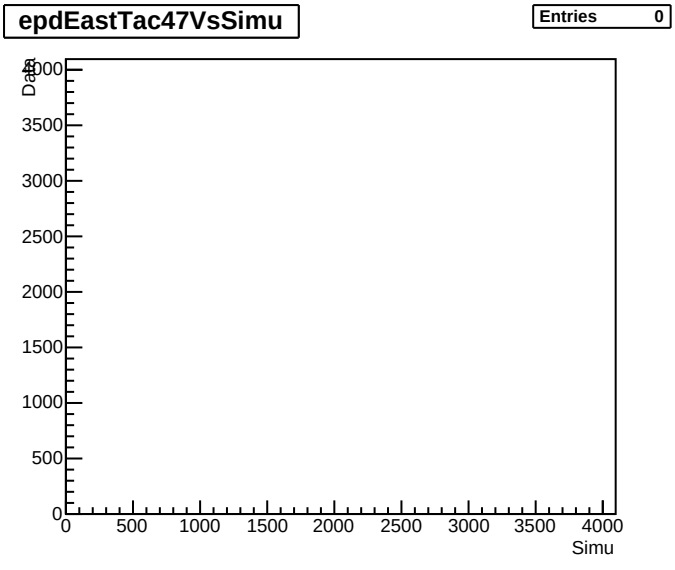

epdWestTHits
Entries 1252920
Truncated NHits
DSMInput Channel

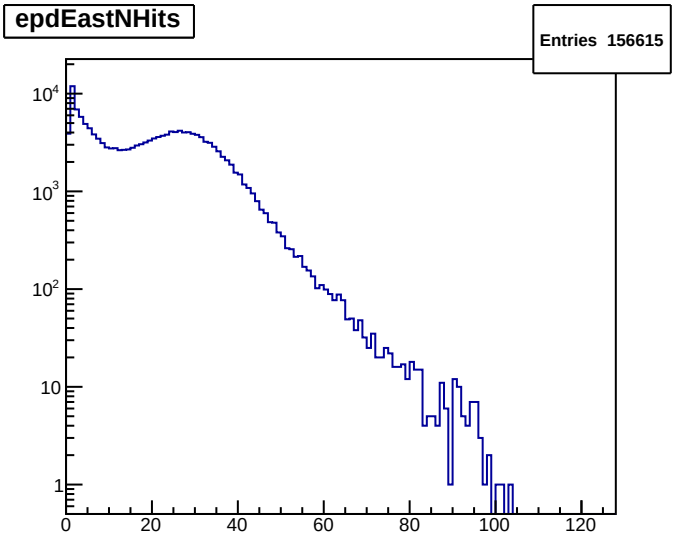

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

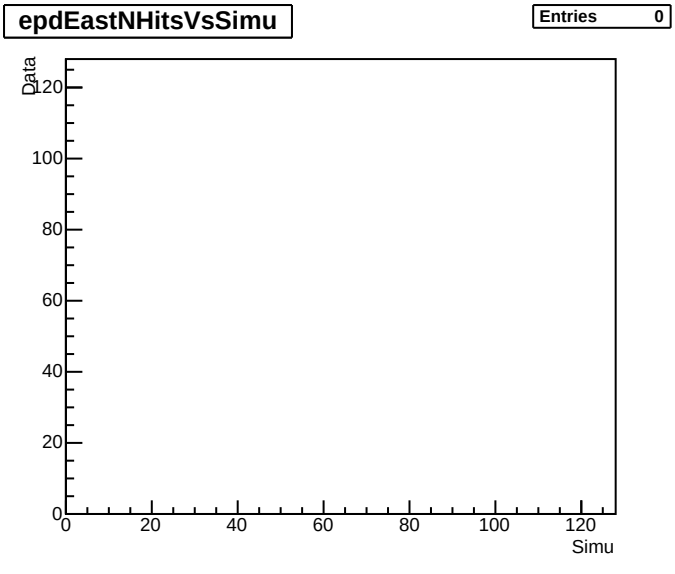

epdEastTac03
Entries 156615

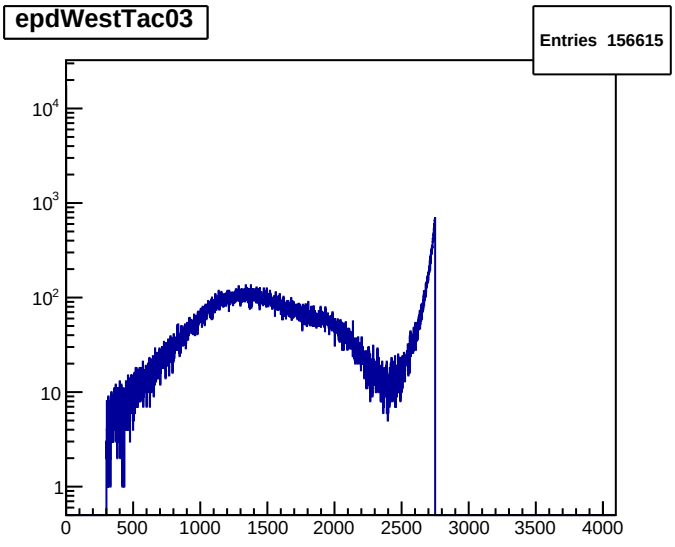

epdEastTac03VsSimu
Entries 0
Data
Simu

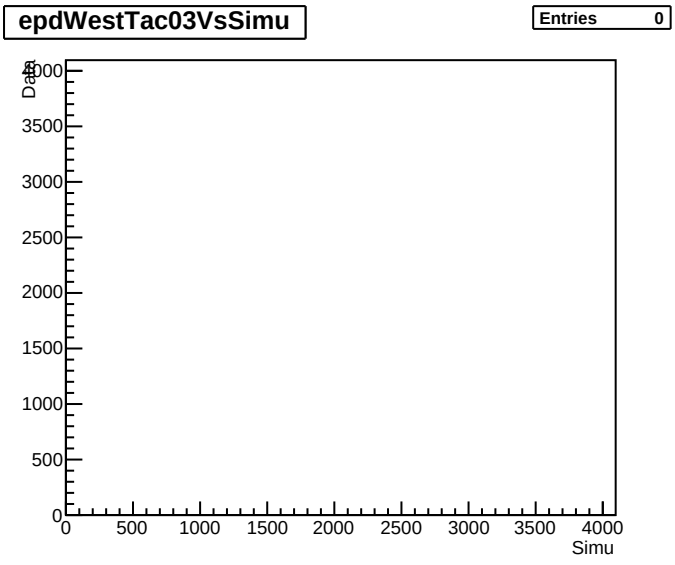

epdEastTac47
Entries 156615

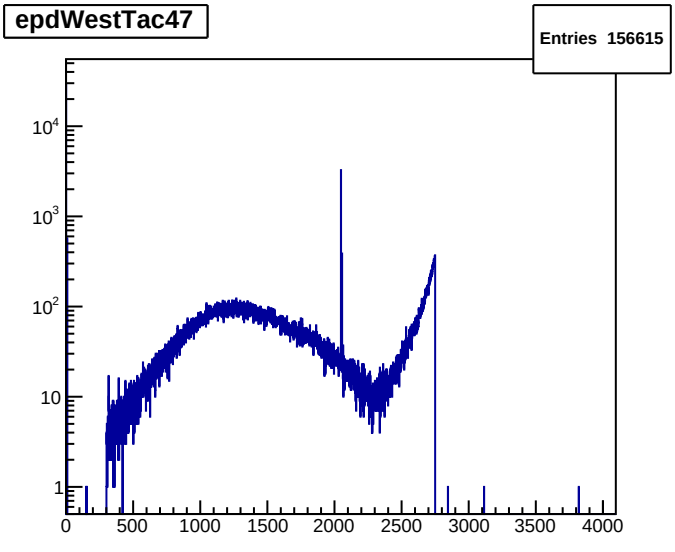

epdEastTac47VsSimu
Entries 0
Data
Simu

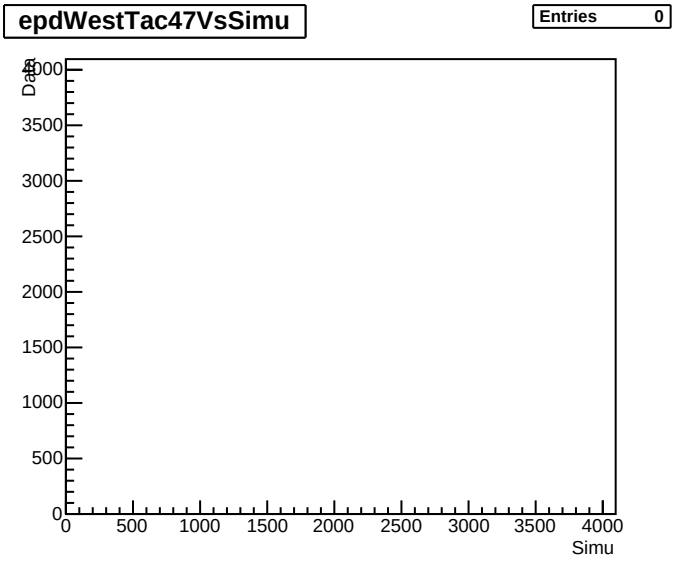

epdEastNHits
Entries 156615

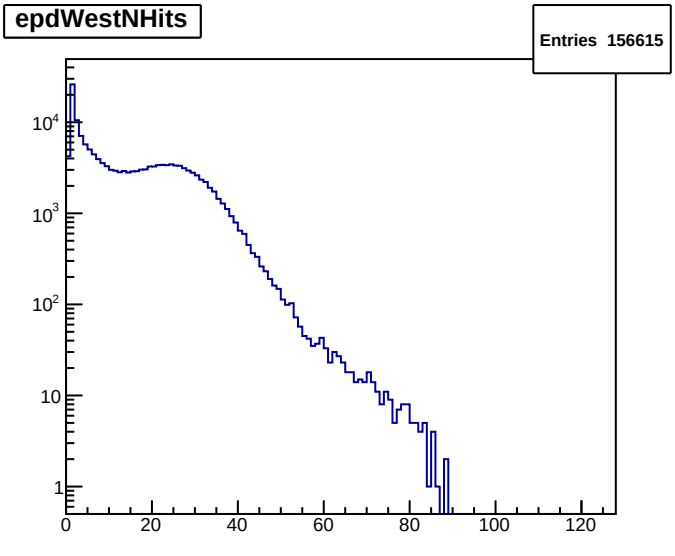

epdEastNHitsVsSimu
Entries 0
Data
Simu

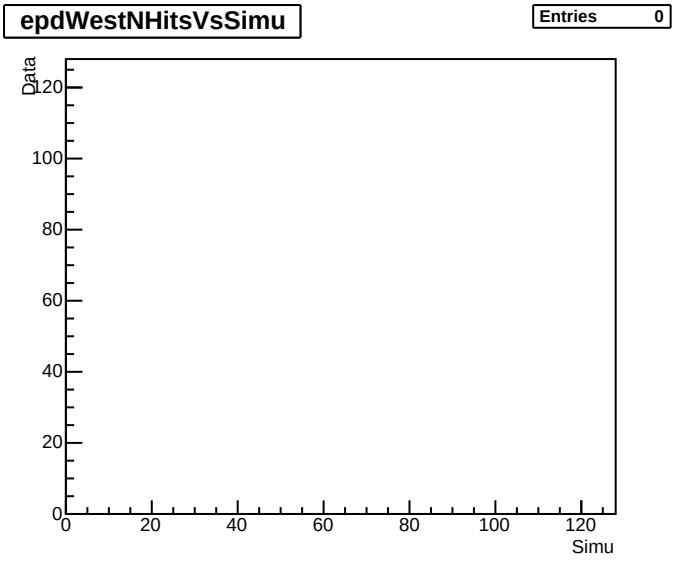

epdWestTac03
Entries 156615

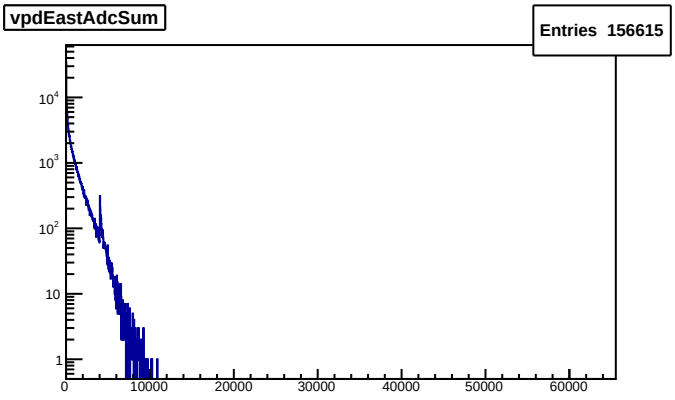

epdWestTac03VsSimu
Entries 0
Data
Simu

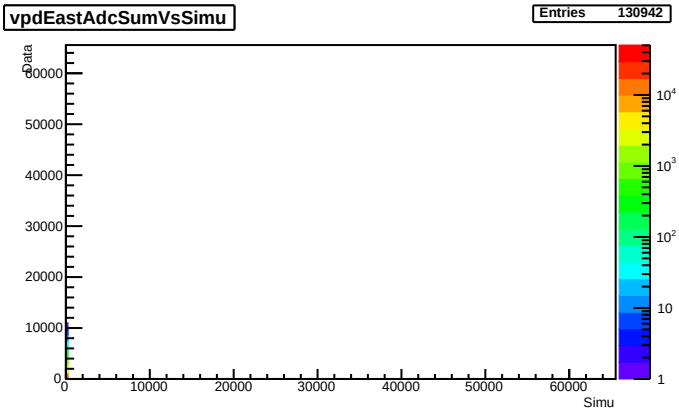

epdWestTac47
Entries 156615

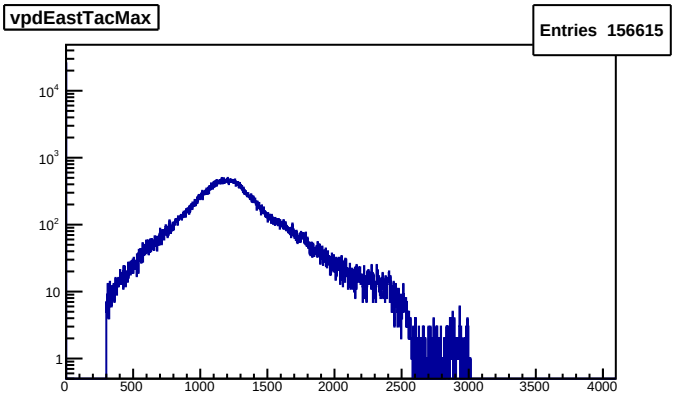

epdWestTac47VsSimu
Entries 0
Data
Simu

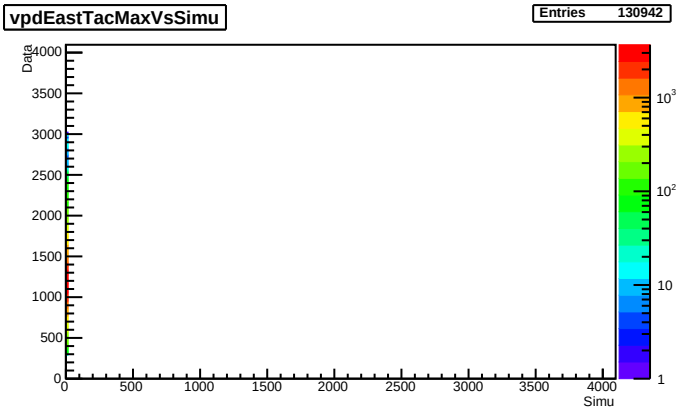

epdWestNHits
Entries 156615

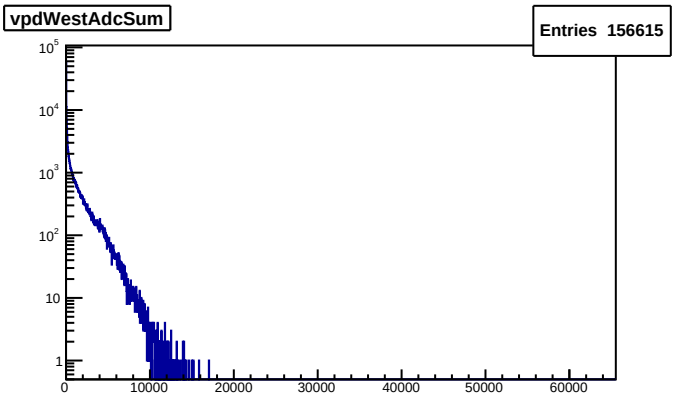

epdWestNHitsVsSimu
Entries 0
Data
Simu

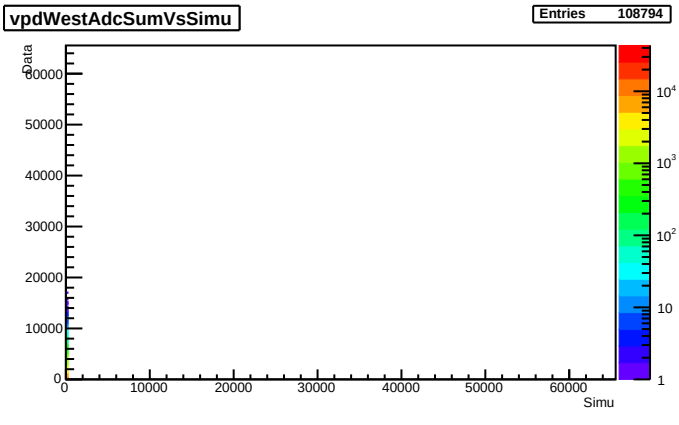

vpdEastAdcSum
Entries 156615

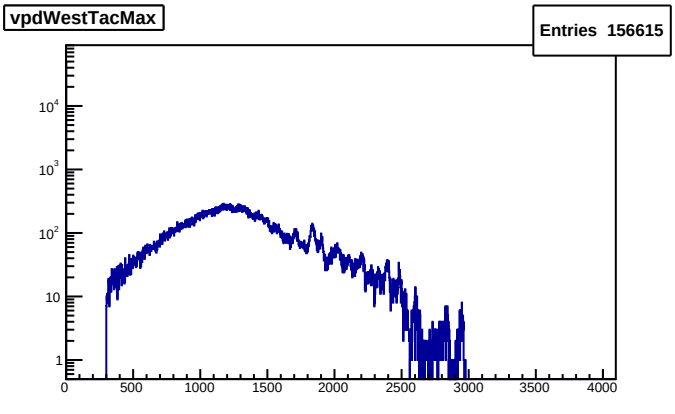

vpdEastAdcSumVsSimu
Entries 130942
Data
Simu

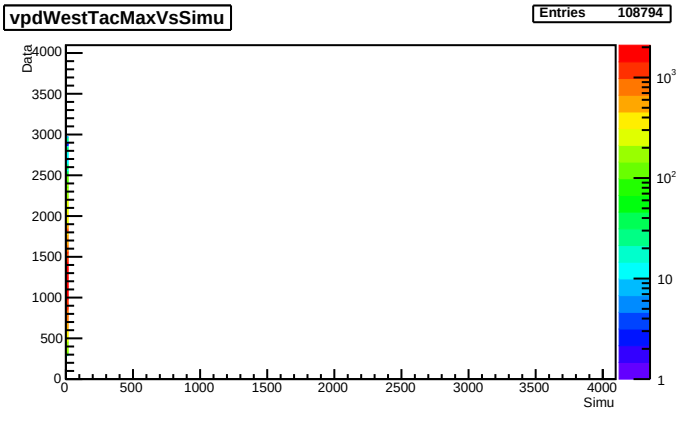

vpdEastTacMax
Entries 156615

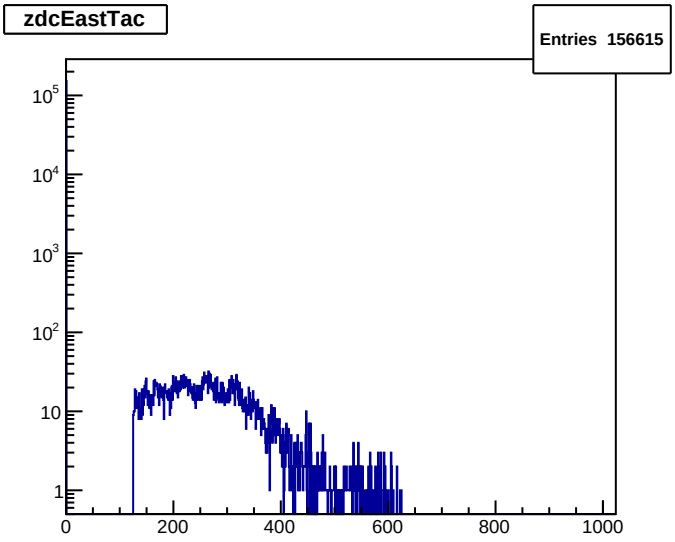

vpdEastTacMaxVsSimu
Entries 130942
Data
Simu

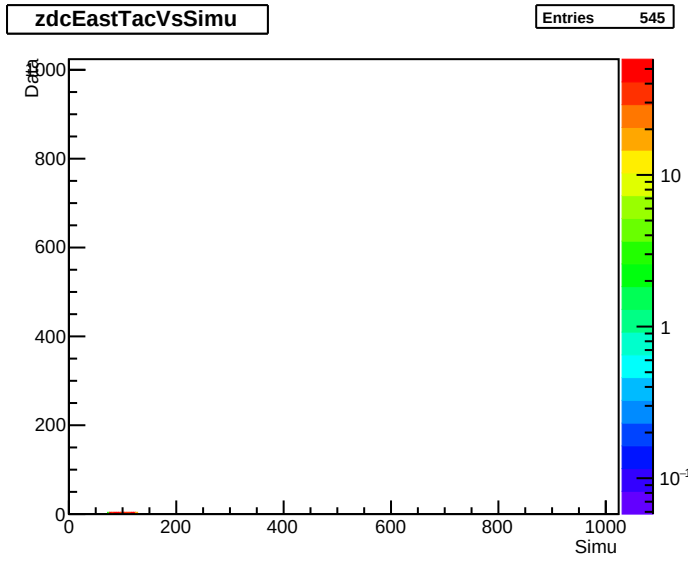

vpdWestAdcSum
Entries 156615

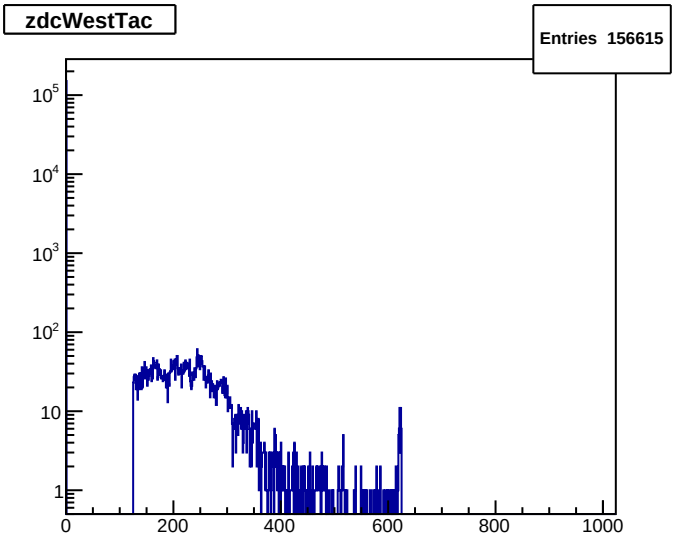

vpdWestAdcSumVsSimu
Entries 108794
Data
Simu

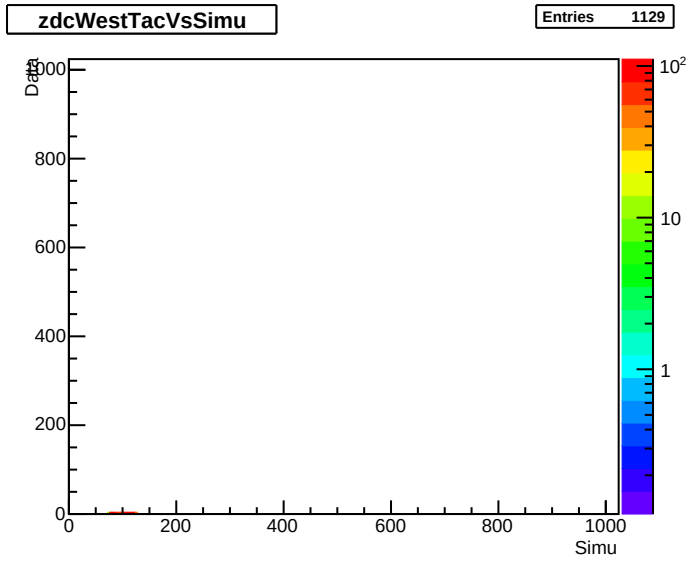

vpdWestTacMax
Entries 156615

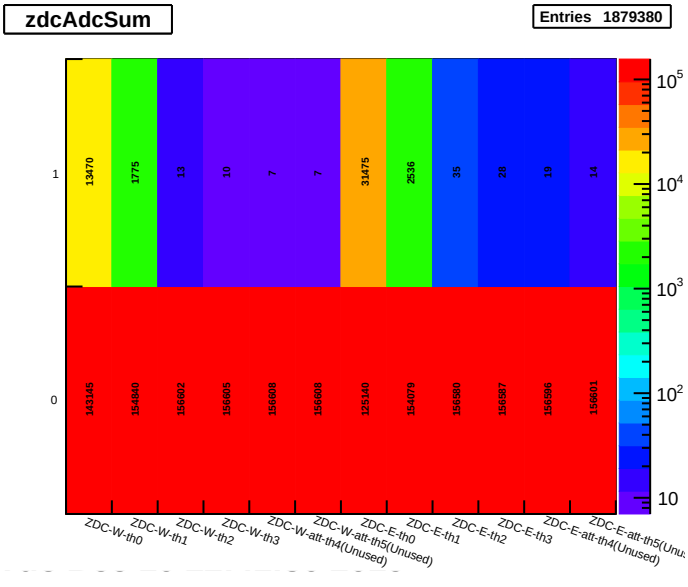

vpdWestTacMaxVsSimu
Entries 108794
Data
Simu

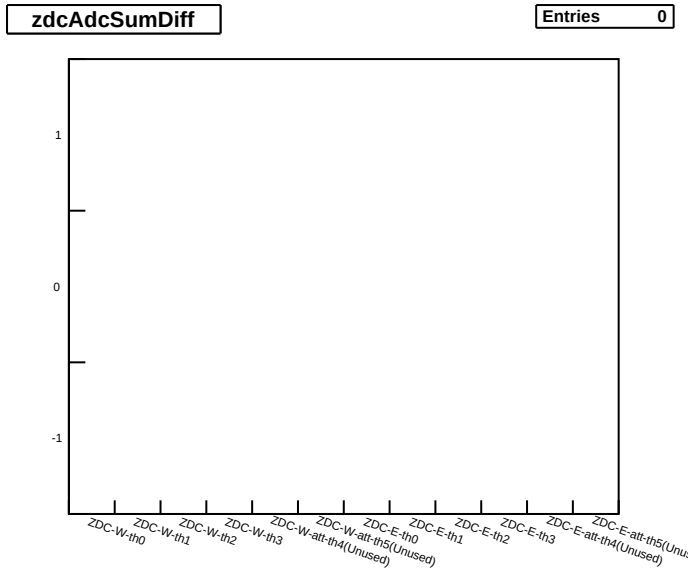

zdcEastTac
Entries 156615

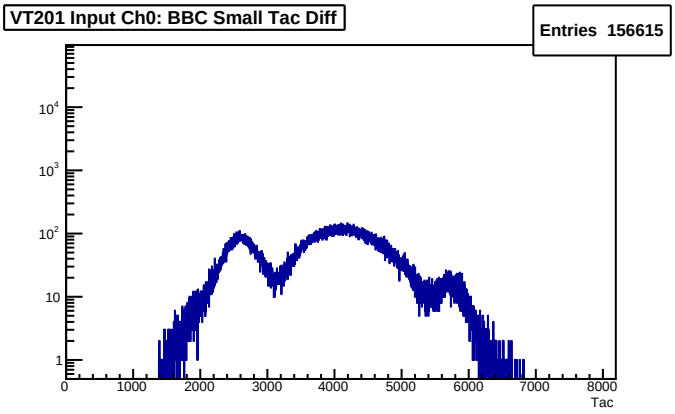

zdcEastTacVsSimu
Entries 545
Data
Simu

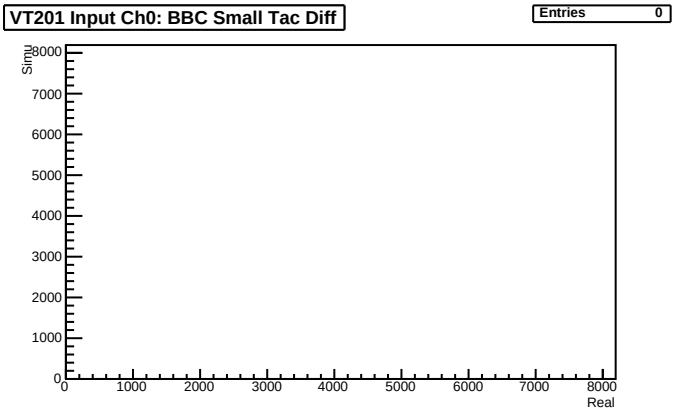

zdcWestTac
Entries 156615

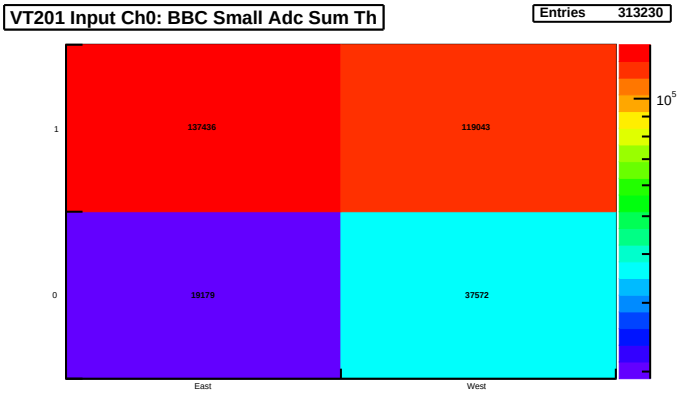

zdcWestTacVsSimu
Entries 1129
Data
Simu

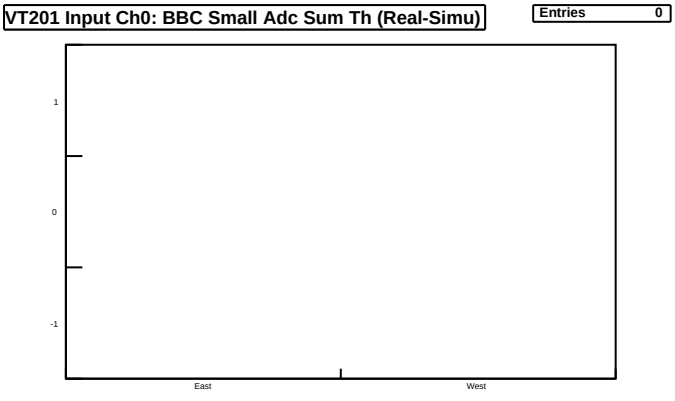

zdcAdcSum
Entries 1879380
13470
1775
13
10
7
7
31475
2536
35
28
19
14
143145
154840
156602
156605
156608
156608
125140
154079
156580
156587
156596
156601
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

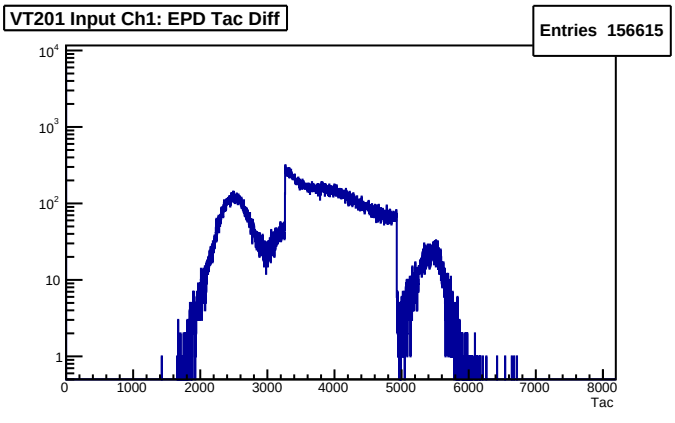

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

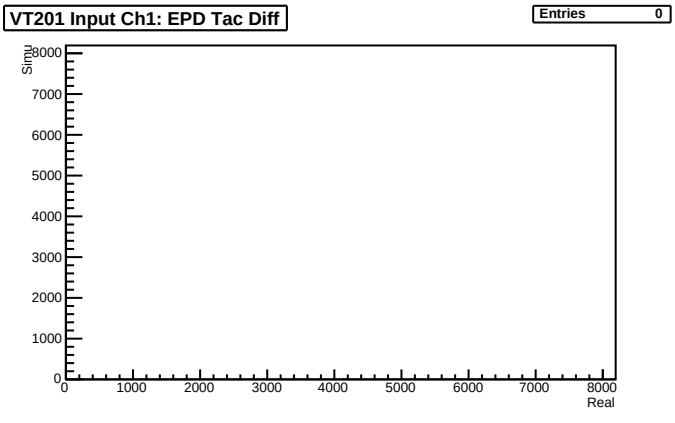

VT201 Input Ch0: BBC Small Tac Diff
Entries 156615
Tac

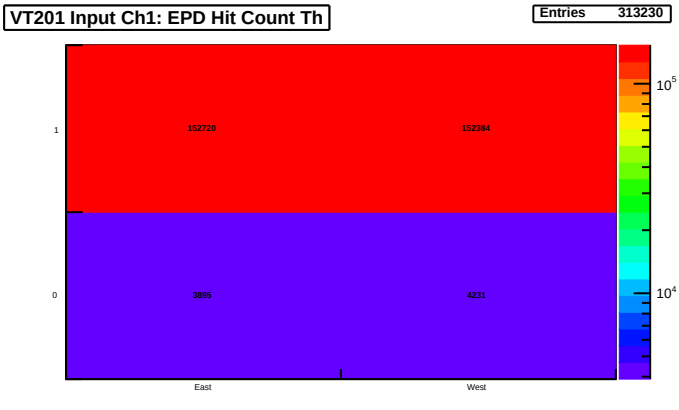

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

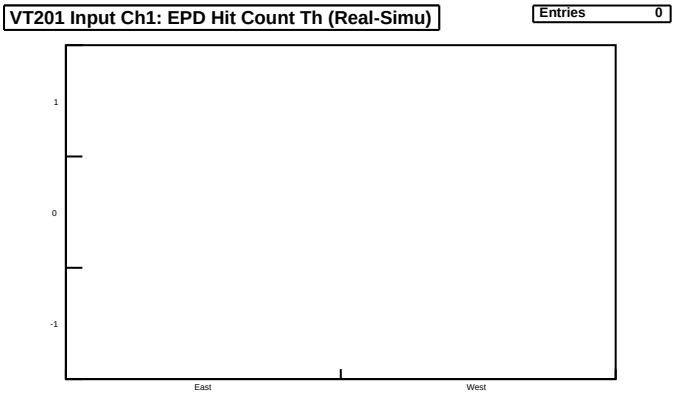

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 313230
137436
119043
19179
37572
East
West

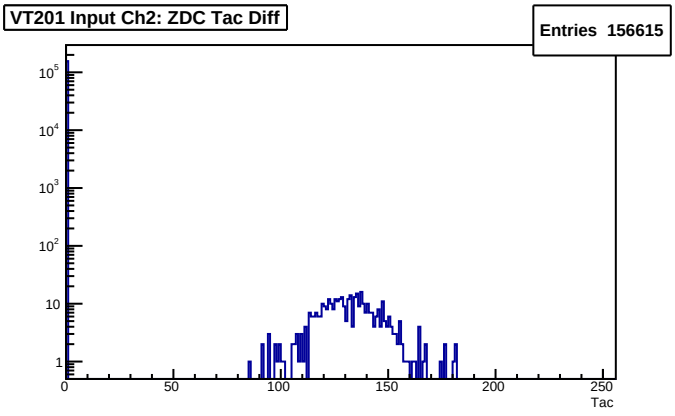

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

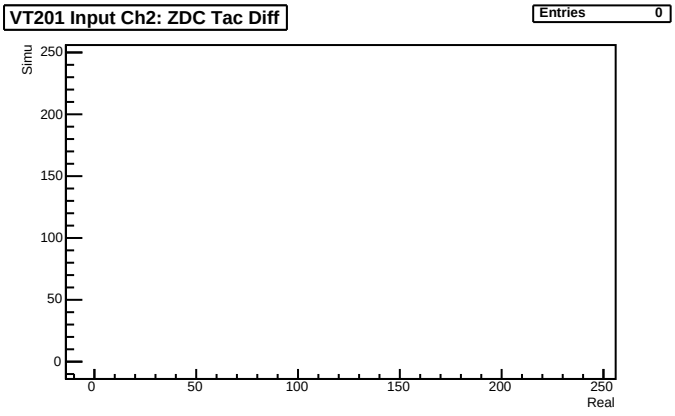

VT201 Input Ch1: EPD Tac Diff
Entries 156615
Tac

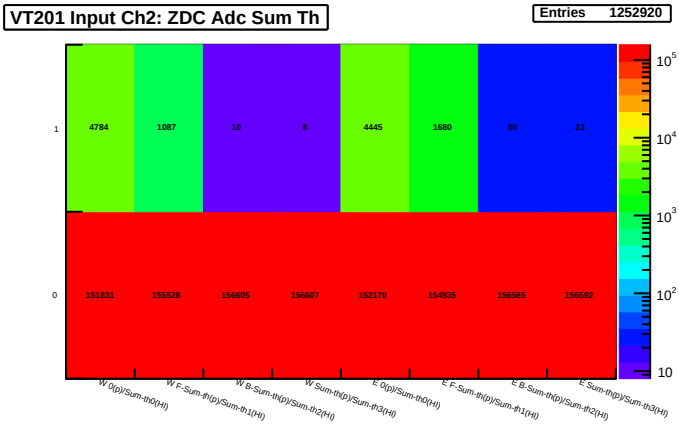

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

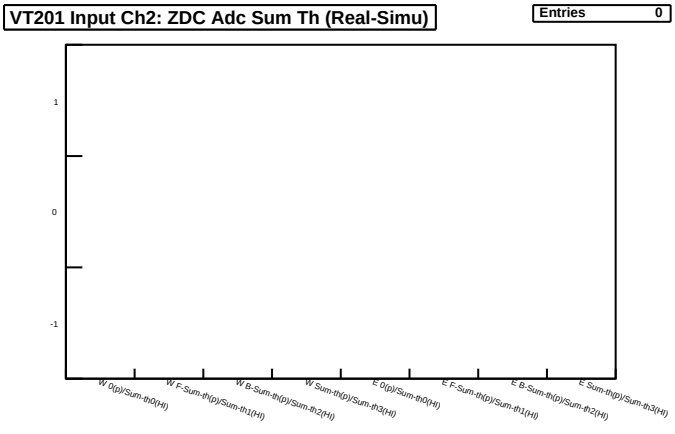

VT201 Input Ch1: EPD Hit Count Th
Entries 313230
152720
152384
3895
4231
East
West

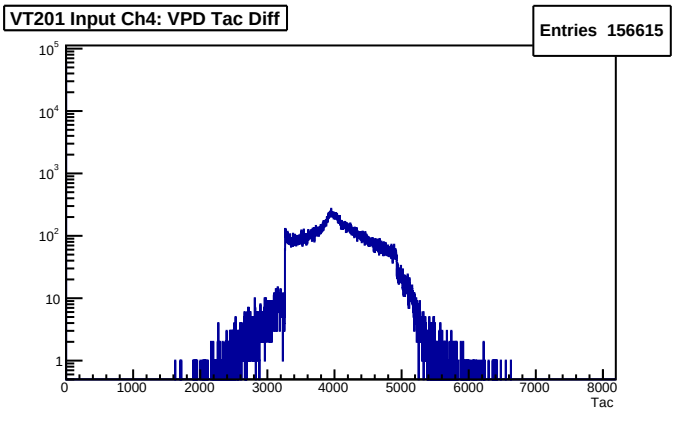

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

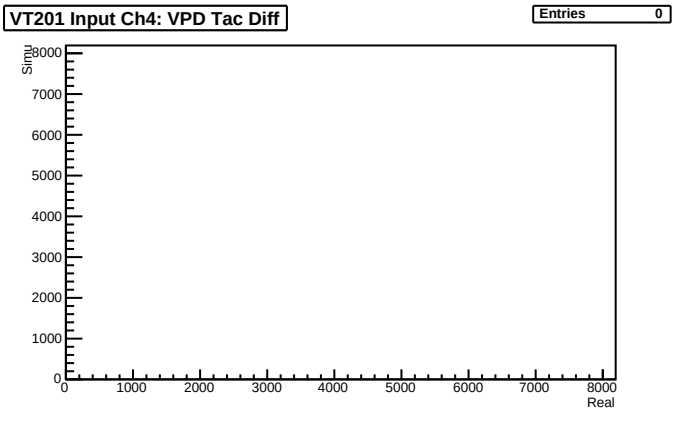

VT201 Input Ch2: ZDC Tac Diff
Entries 156615
Tac

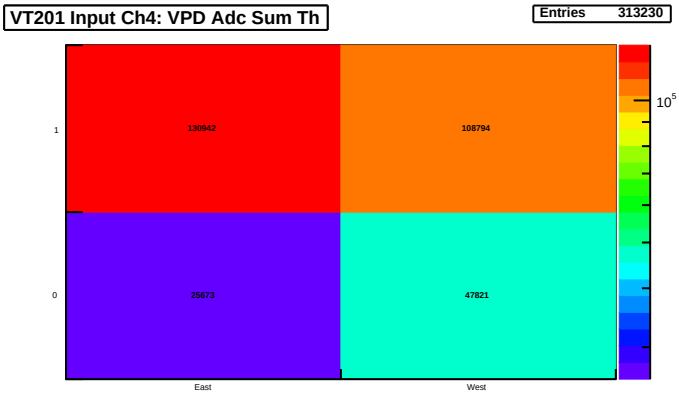

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

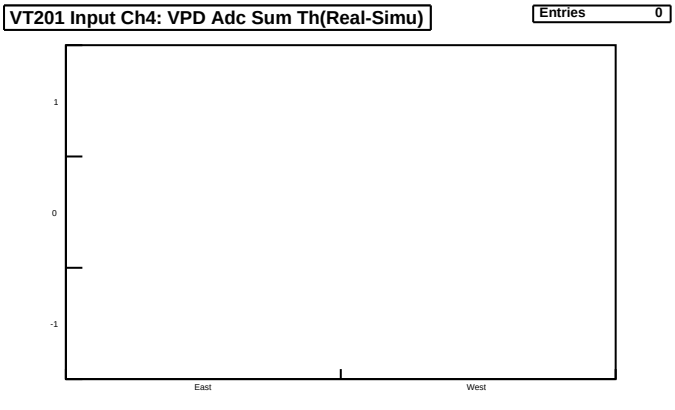

VT201 Input Ch2: ZDC Adc Sum Th
Entries 1252920
4784
1087
10
8
4445
1680
30
23
151831
155528
156605
156607
152170
154935
156585
156592
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

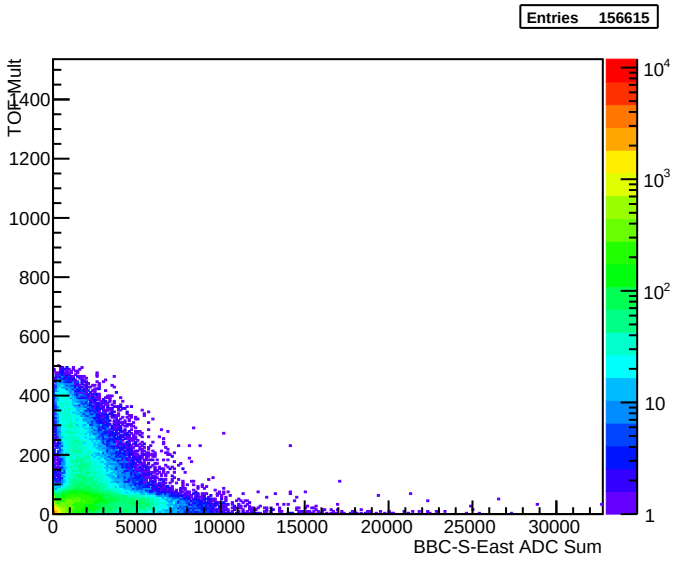

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

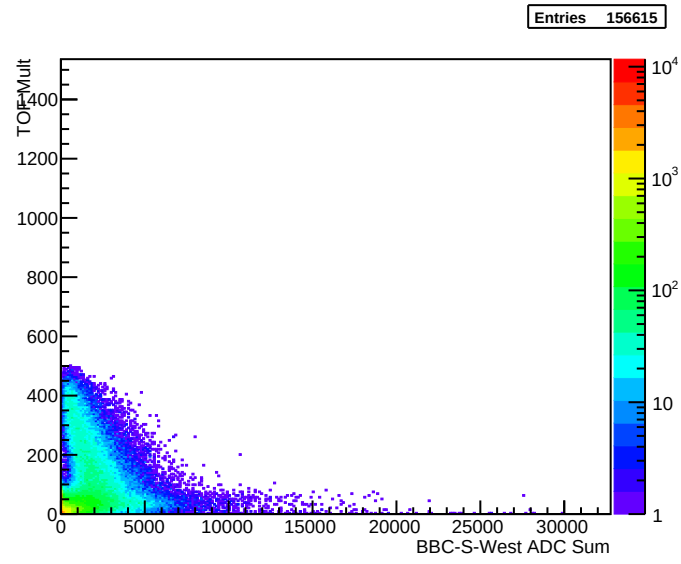

VT201 Input Ch4: VPD Tac Diff
Entries 156615
Tac

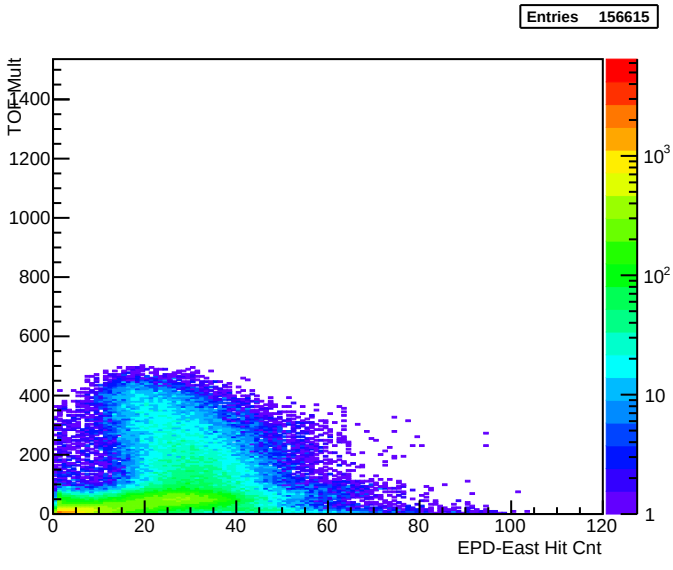

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

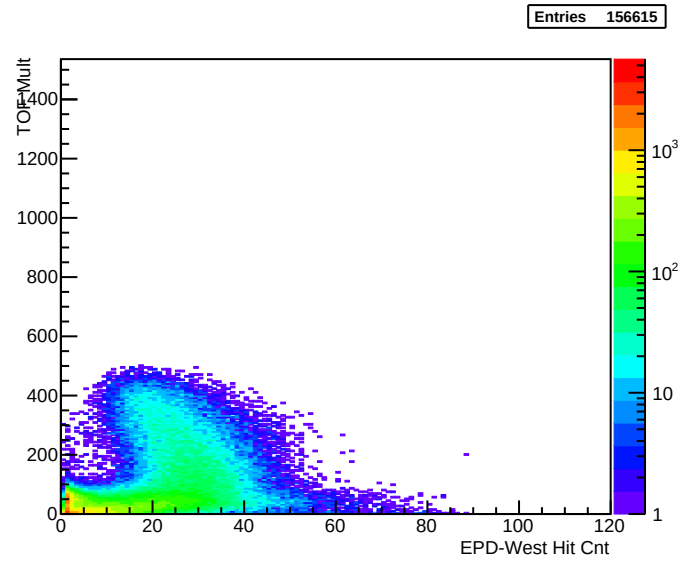

VT201 Input Ch4: VPD Adc Sum Th
Entries 313230
130942
108794
25673
47821
East
West

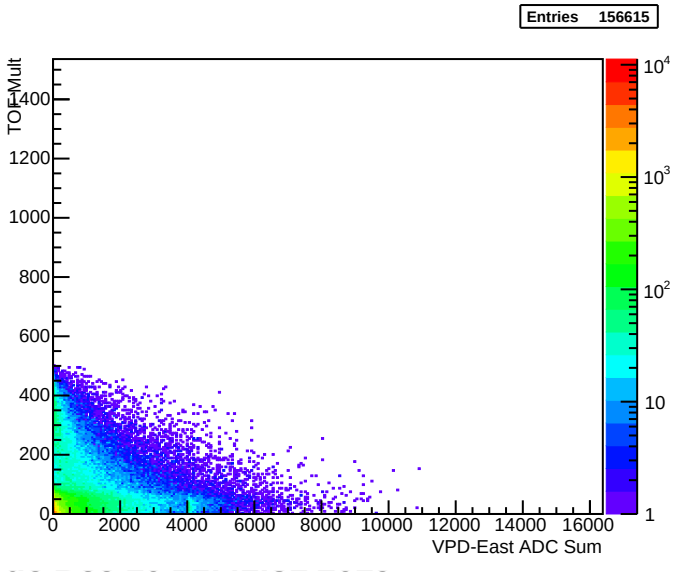

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

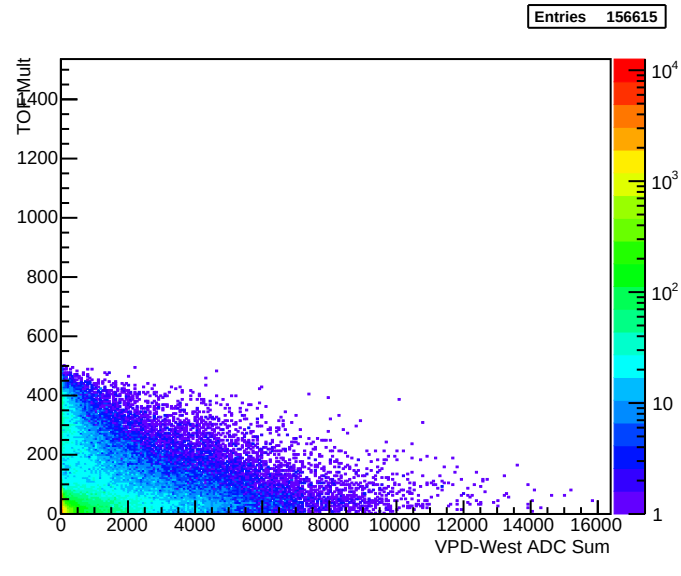

Entries 156615
TOF-Mult
BBC-S-East ADC Sum

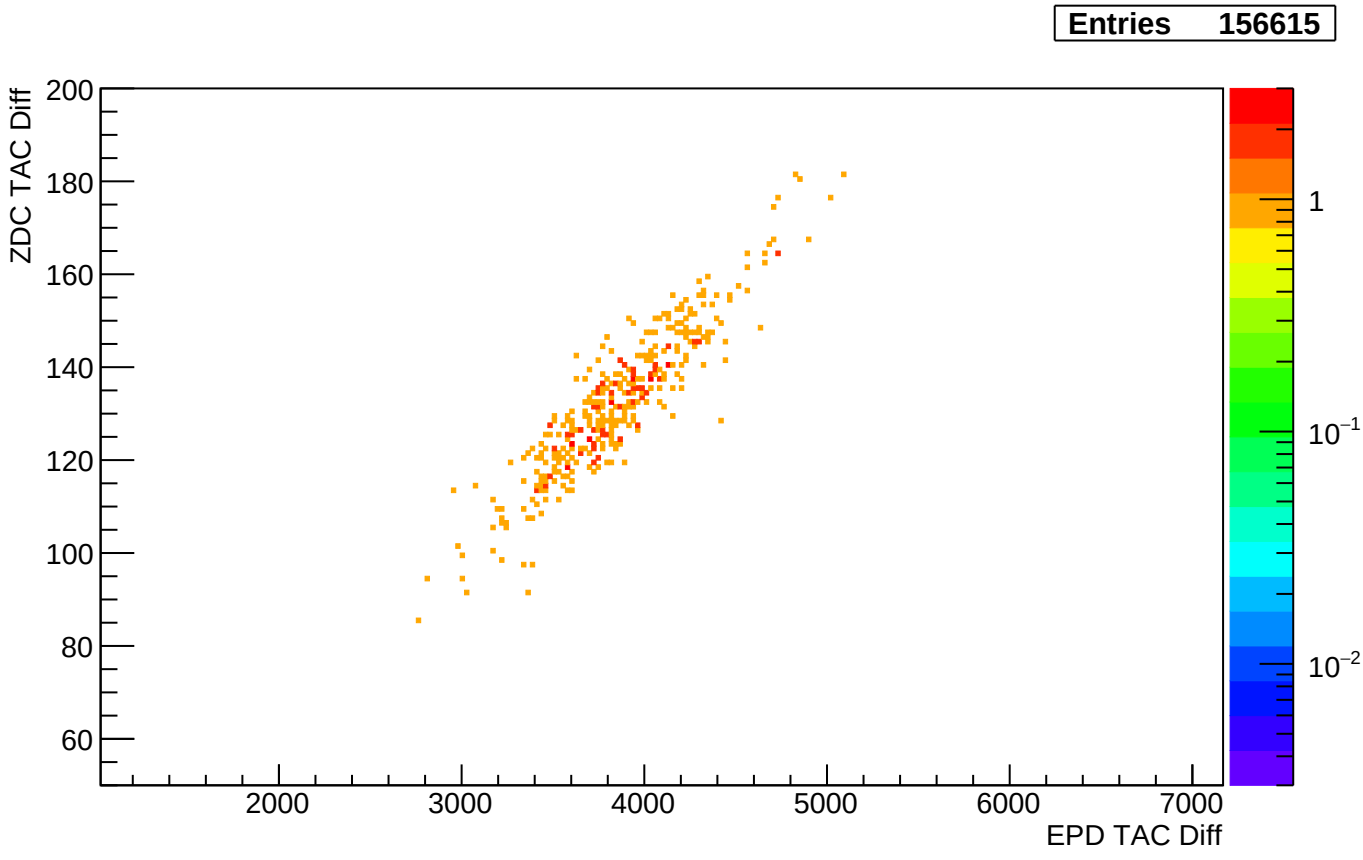

Entries 156615
TOF-Mult
BBC-S-West ADC Sum

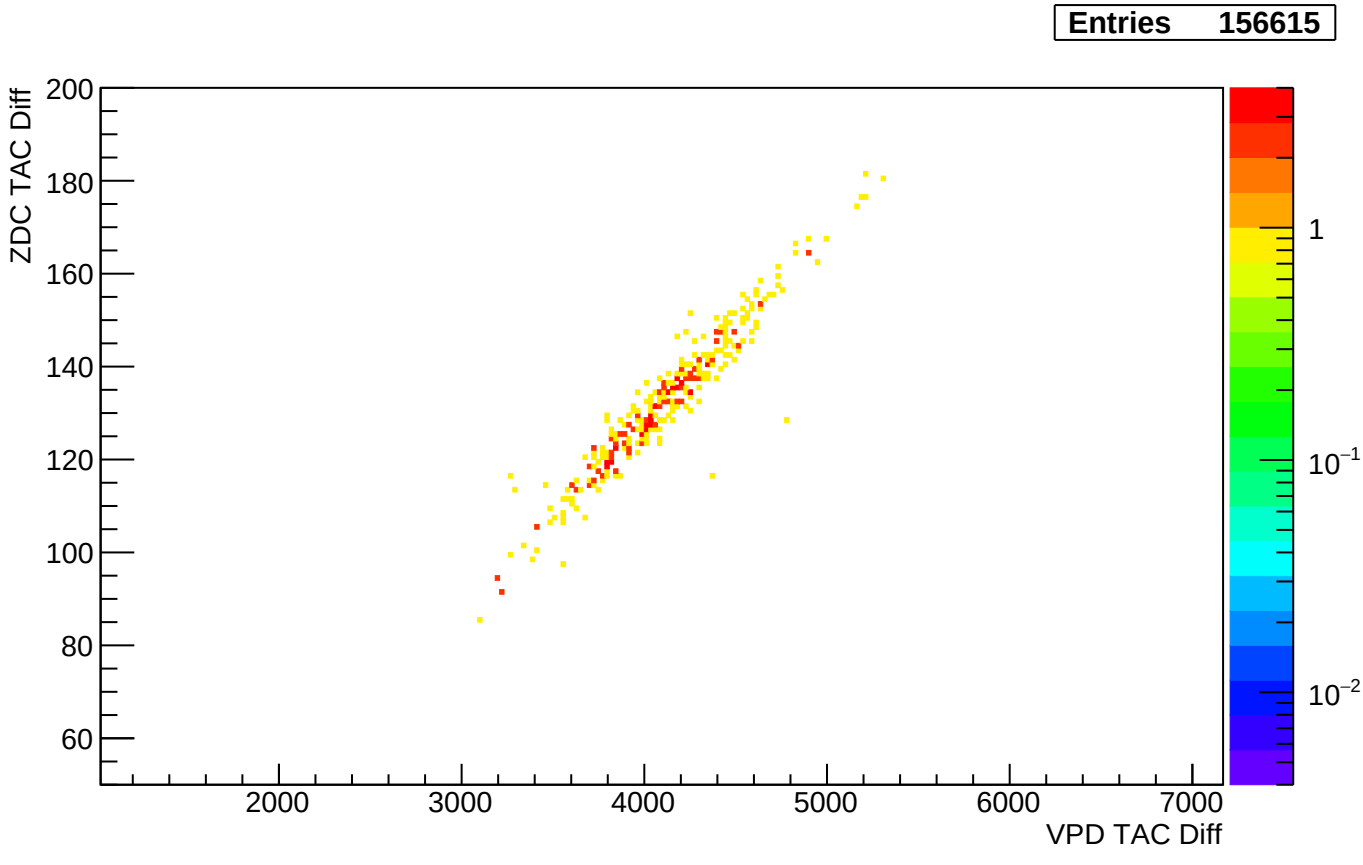

Entries 156615
TOF-Mult
EPD-East Hit Cnt

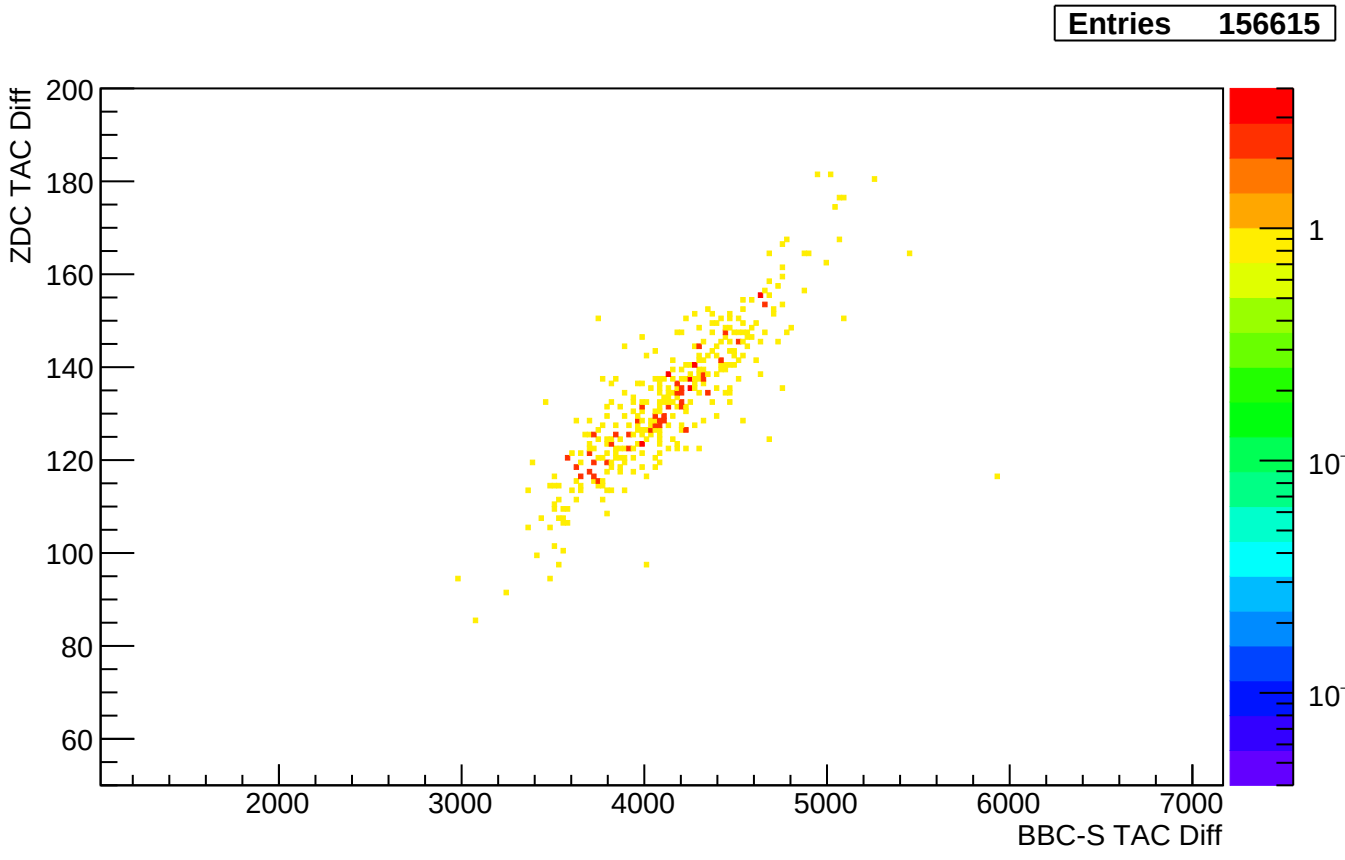

Entries 156615
TOF-Mult
EPD-West Hit Cnt

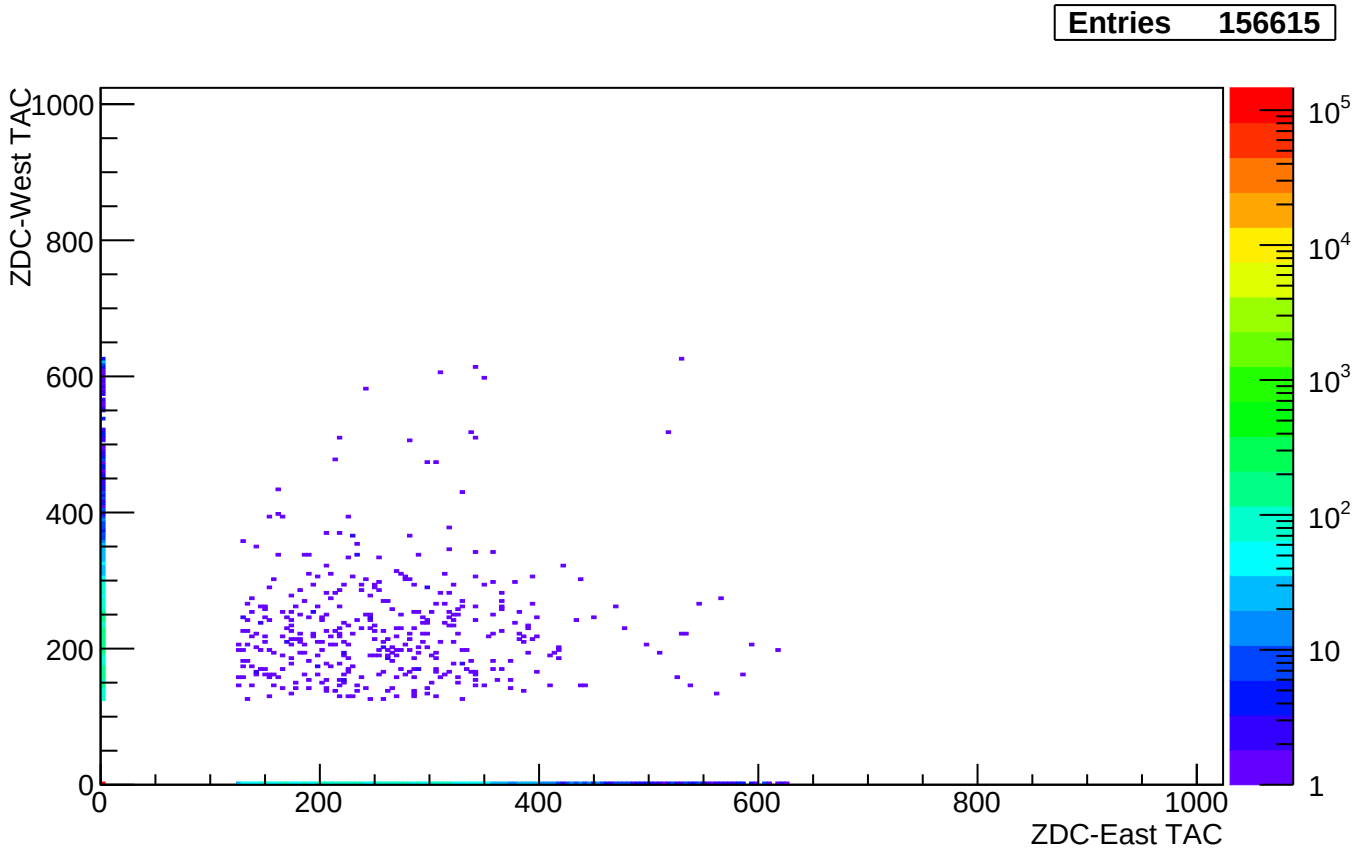

Entries 156615
TOF-Mult
VPD-East ADC Sum

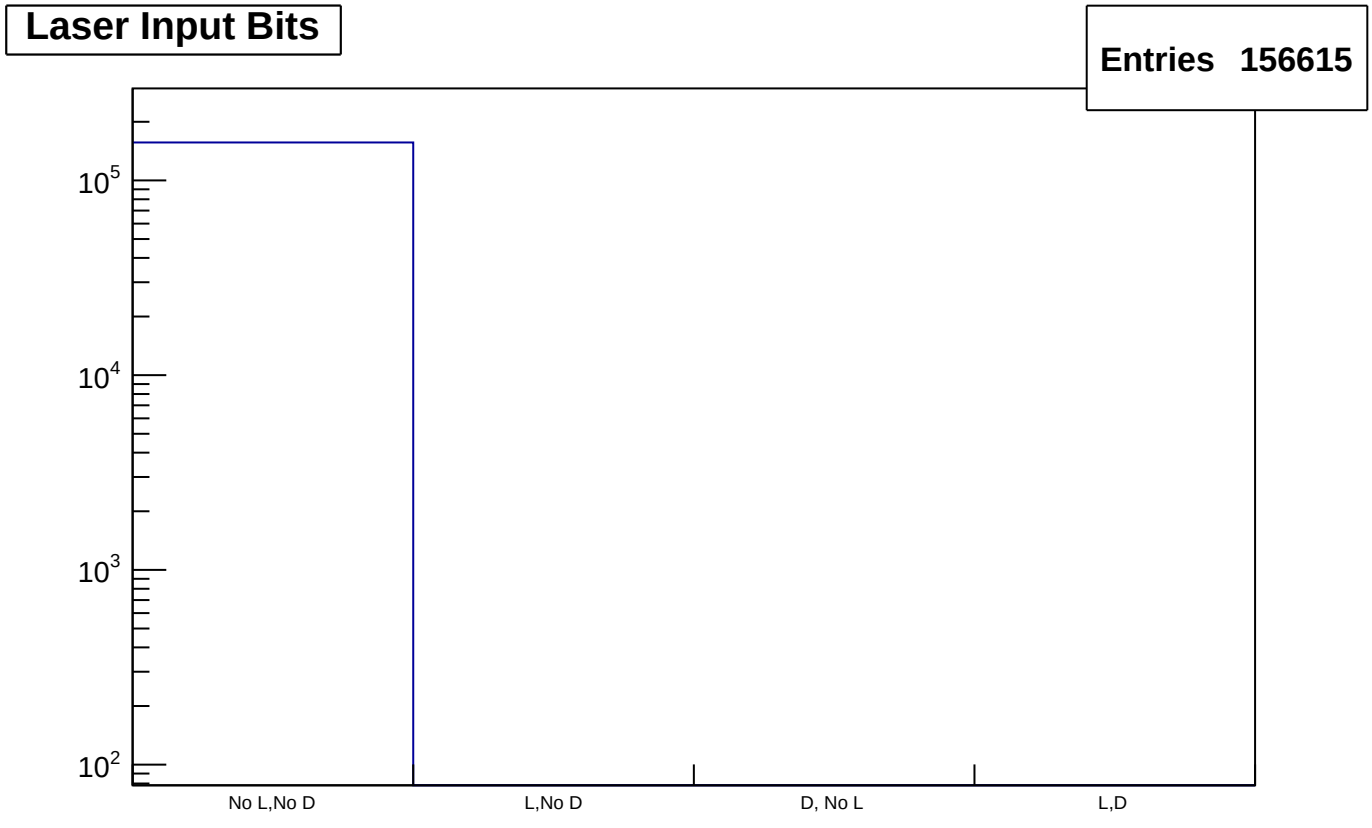

Entries 156615
TOF-Mult
VPD-West ADC Sum

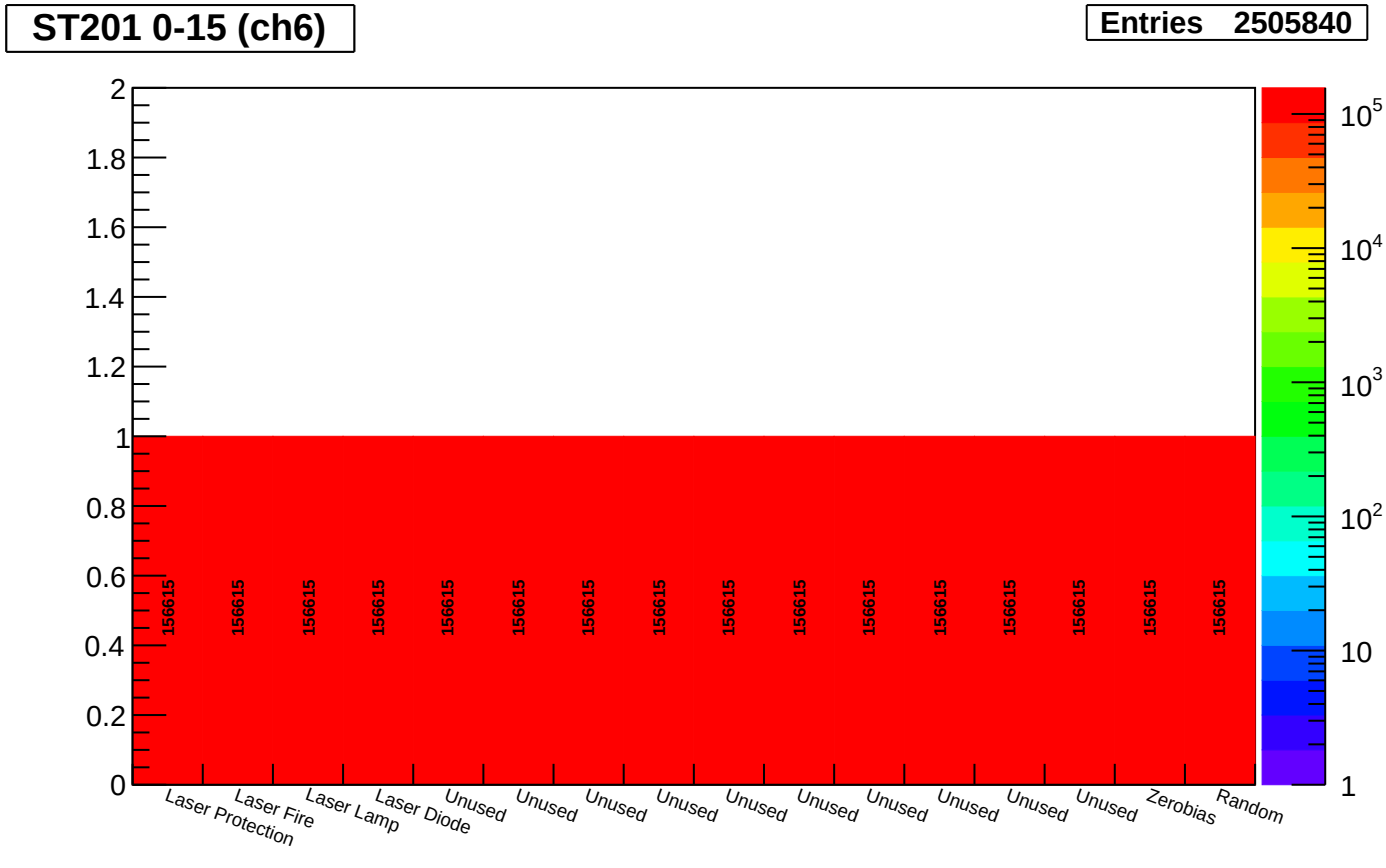

Entries 156615
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

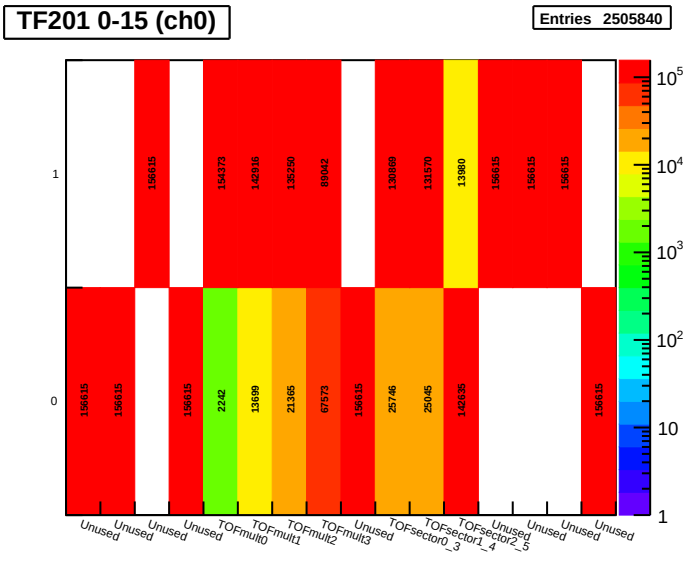

Entries 156615
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

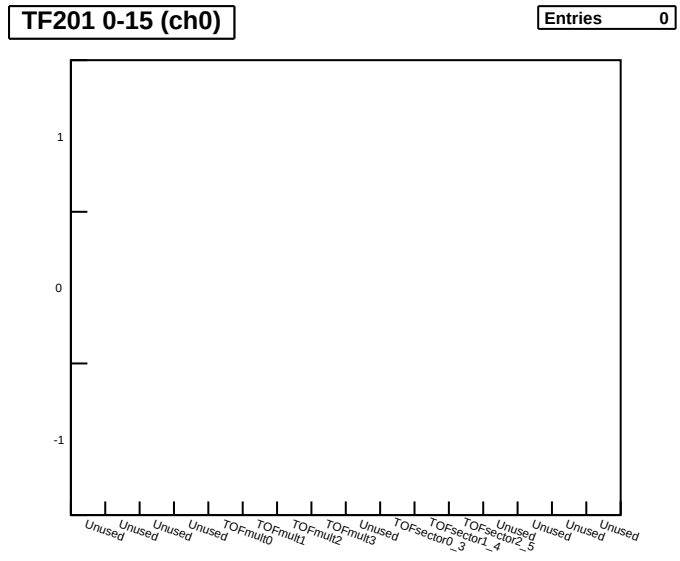

Entries 156615
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

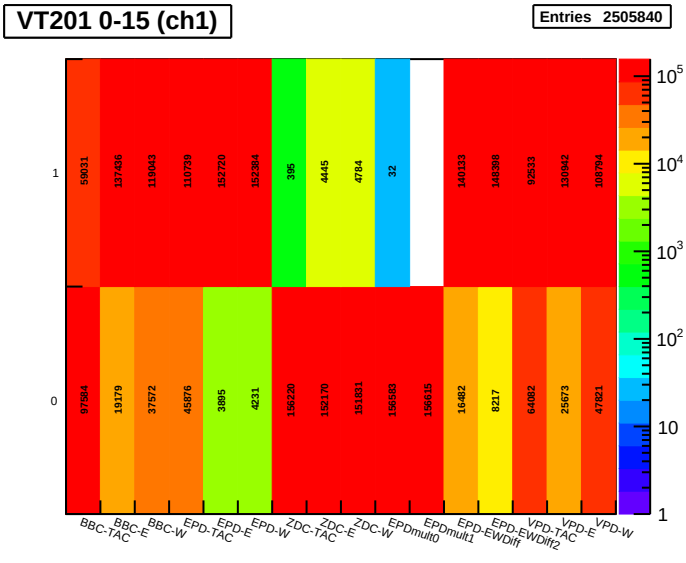

Entries 156615
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

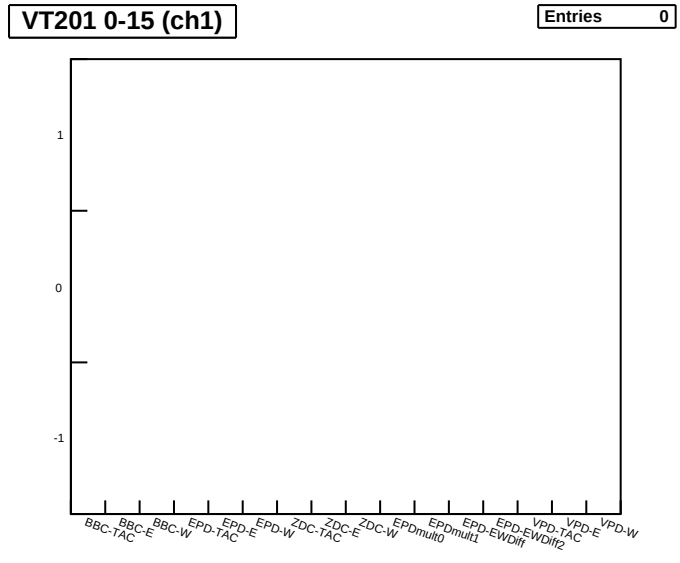

Laser Input Bits
Entries 156615
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

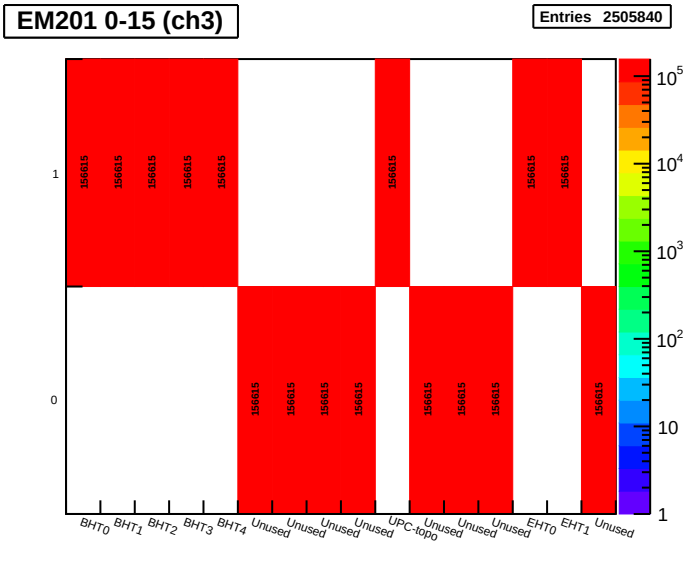

ST201 0-15 (ch6)
Entries 2505840
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
156615
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

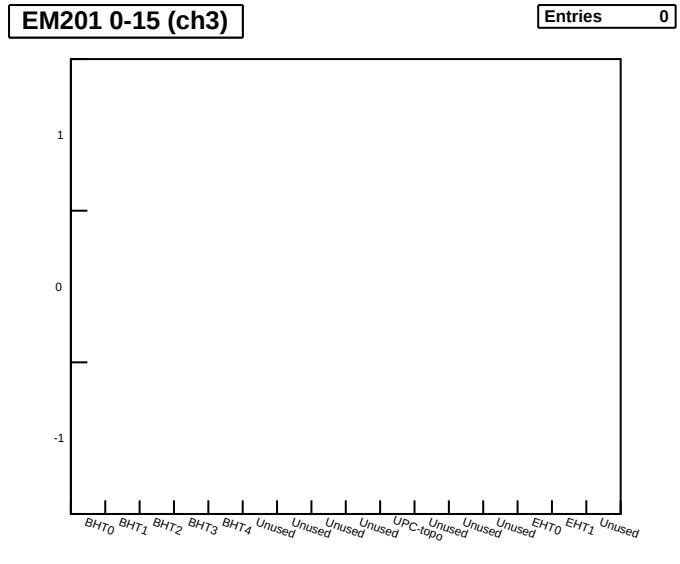

TF201 0-15 (ch0)
Entries 2505840
1
0
156615 156615 156615 156615 154373 142916 135250 89042 130869 131570 13980 156615 156615 156615
156615 156615 156615 2242 13699 21365 67573 156615 25746 25045 142635 156615
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 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 2505840
1
0
59031 137436 119043 110739 152720 152384 395 4445 4784 32 140133 146398 92533 130942 108734
97584 19179 37572 45876 3895 4231 156220 152170 151831 156583 156615 16482 8217 64082 25673 47821
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^5 10^4 10^3 10^2 10 1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 2505840
1
0
156615 156615 156615 156615 156615 156615 156615 156615 156615
156615 156615 156615 156615 156615 156615 156615 156615
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^5 10^4 10^3 10^2 10 1


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