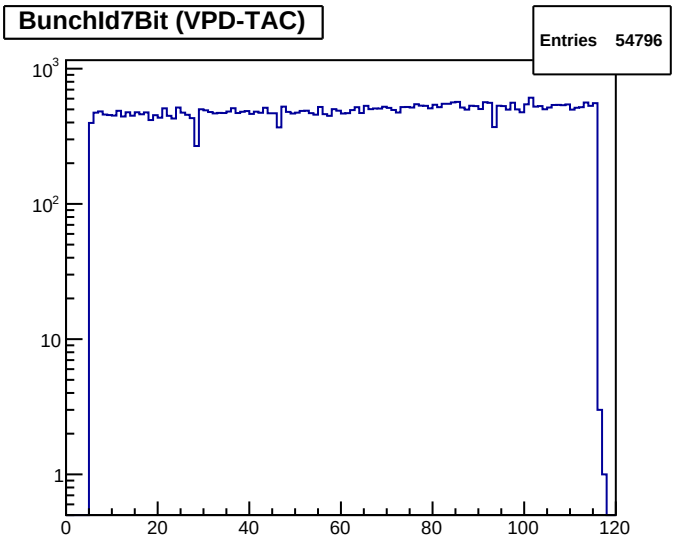
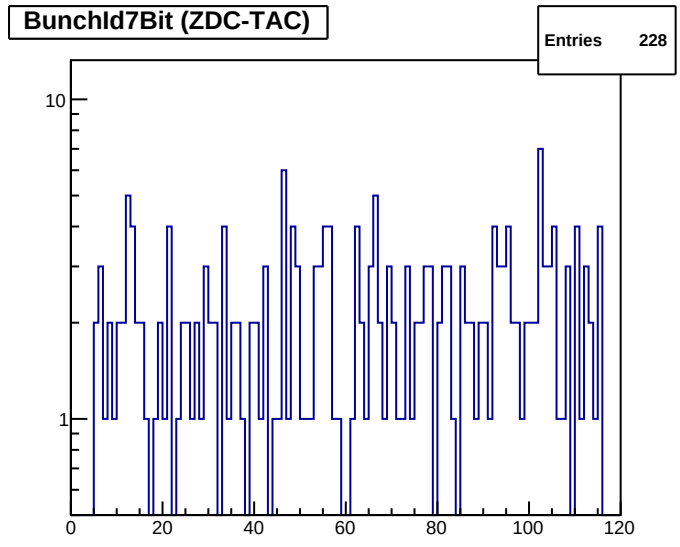
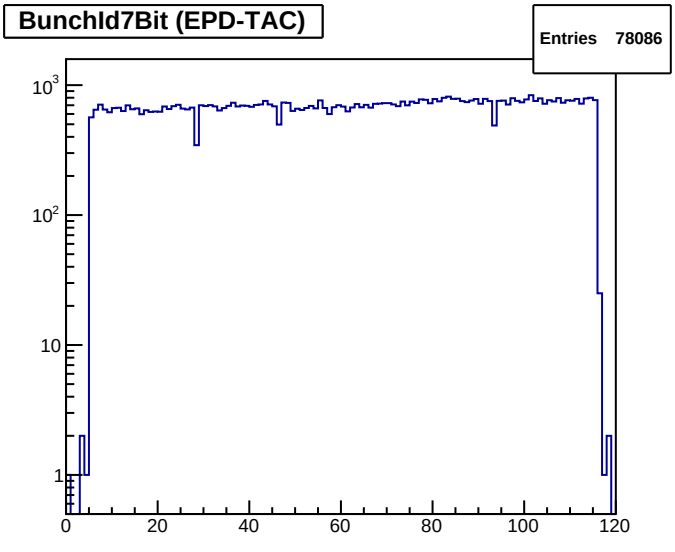
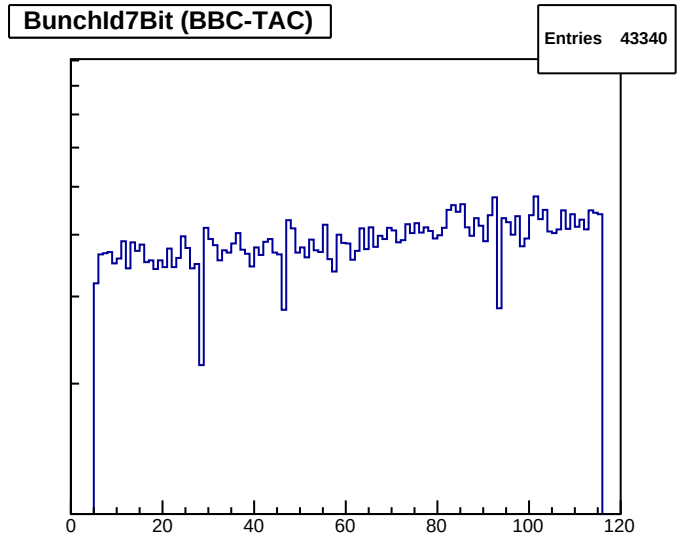
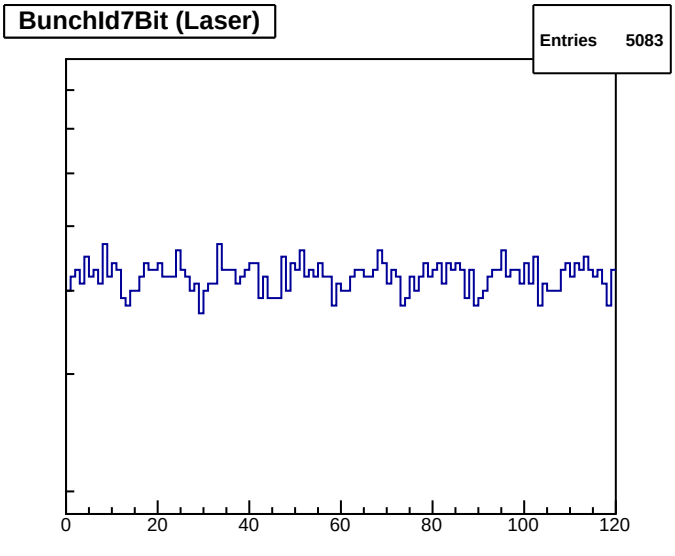
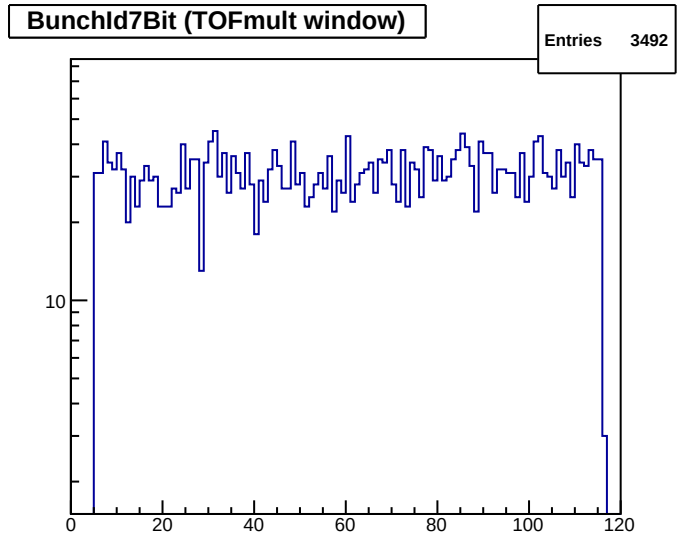

BunchId7Bit (VPD-TAC)
Entries 54796
10^3
10^2
10
1
0
20
40
60
80
100
120

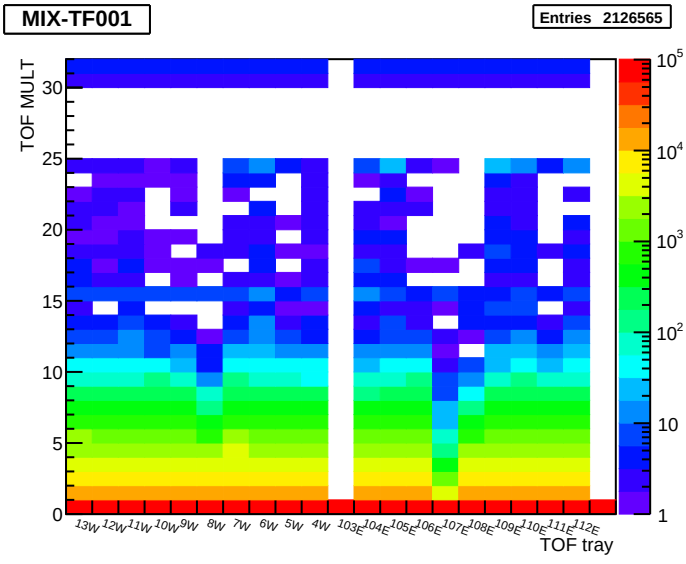

BunchId7Bit (ZDC-TAC)
Entries 228
10
1
0
20
40
60
80
100
120

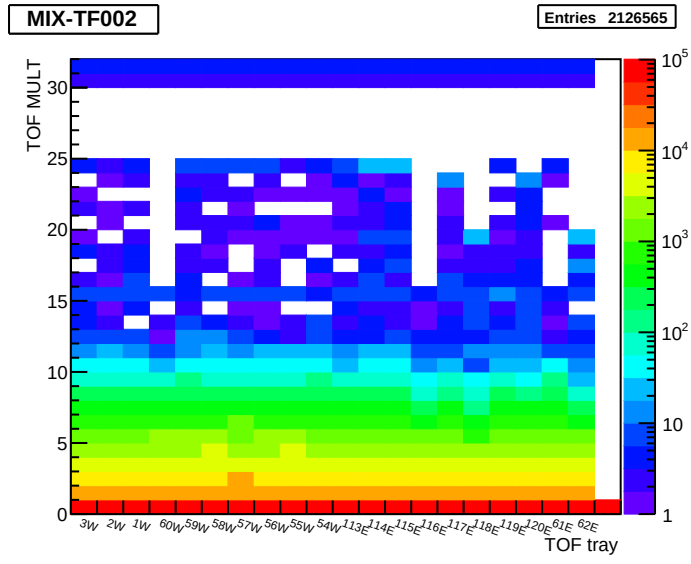

BunchId7Bit (EPD-TAC)
Entries 78086
10^3
10^2
10
1
0
20
40
60
80
100
120

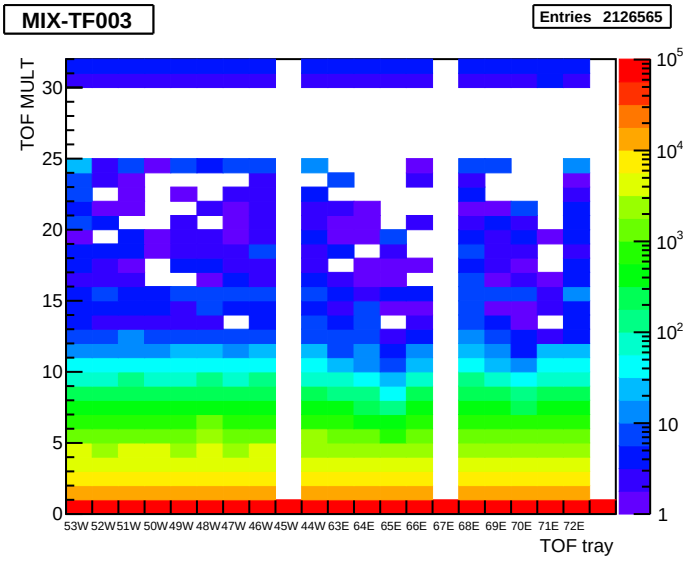

BunchId7Bit (BBC-TAC)
Entries 43340
0
20
40
60
80
100
120

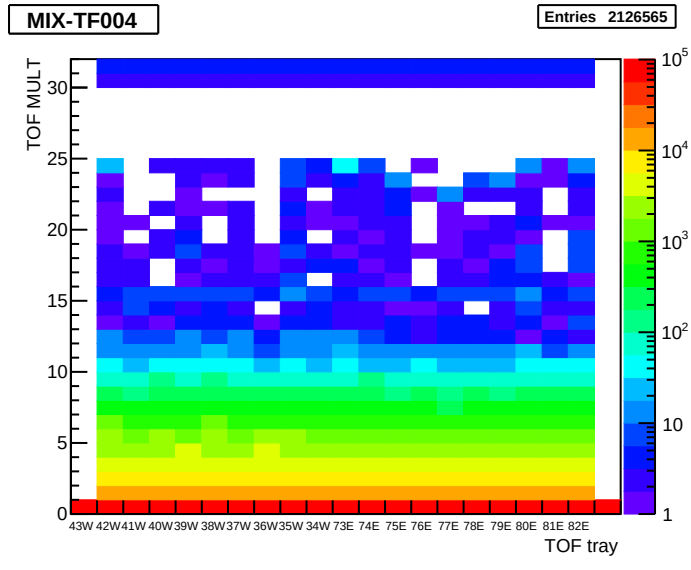

BunchId7Bit (Laser)
Entries 5083
0
20
40
60
80
100
120

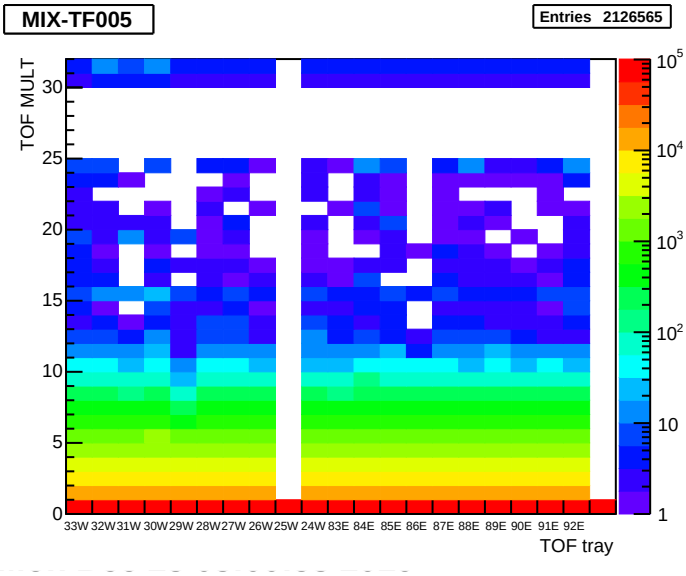

BunchId7Bit (TOFmult window)
Entries 3492
10
0
20
40
60
80
100
120

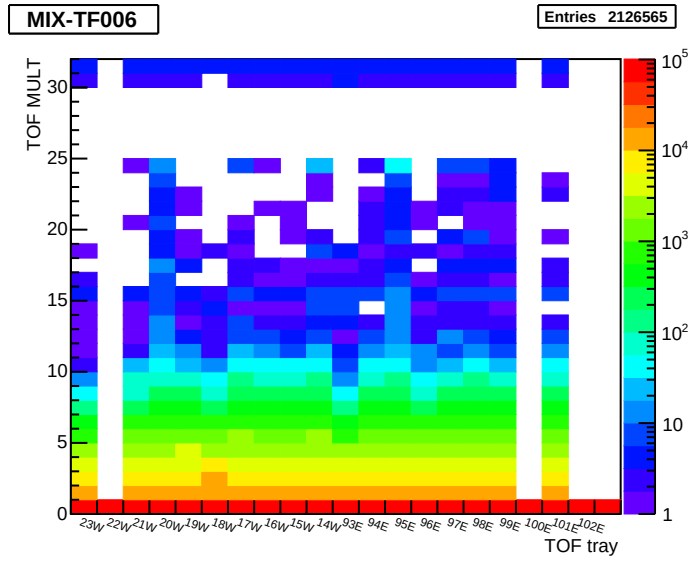

MIX-TF001
Entries 2126565
TOF MULT
TOF tray

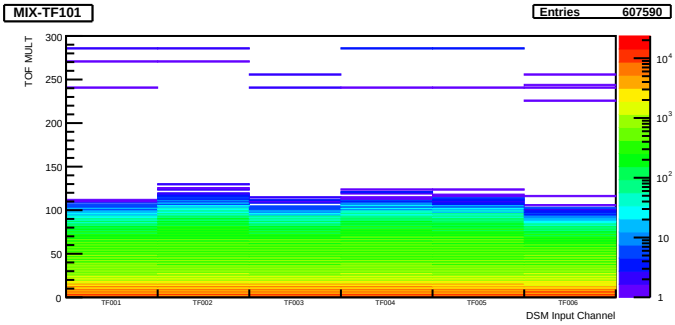

MIX-TF002
Entries 2126565
TOF MULT
TOF tray

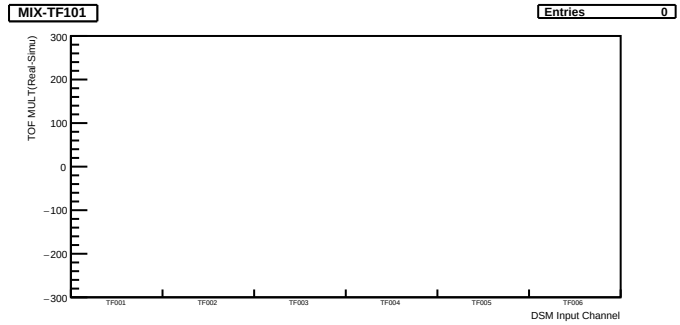

MIX-TF003
Entries 2126565
TOF MULT
TOF tray

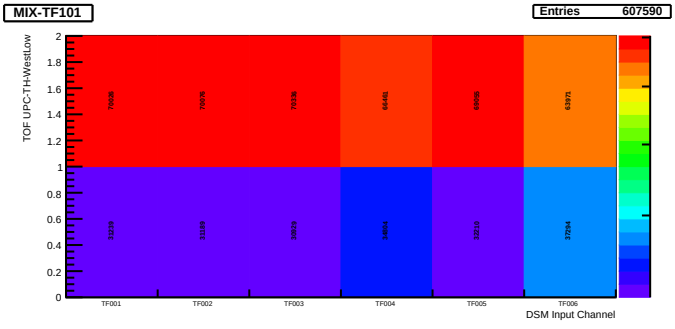

MIX-TF004
Entries 2126565
TOF MULT
TOF tray

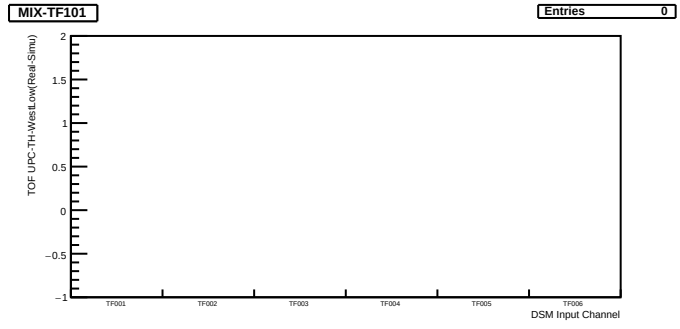

MIX-TF005
Entries 2126565
TOF MULT
TOF tray

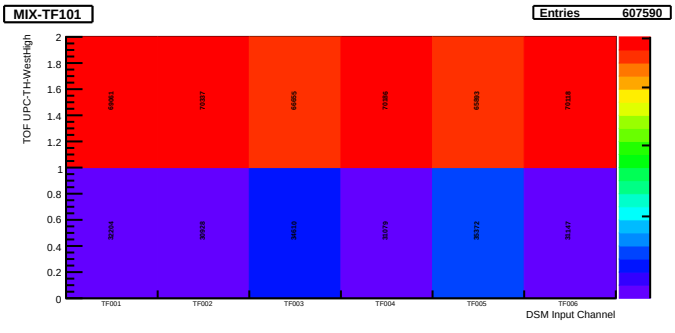

MIX-TF006
Entries 2126565
TOF MULT
TOF tray

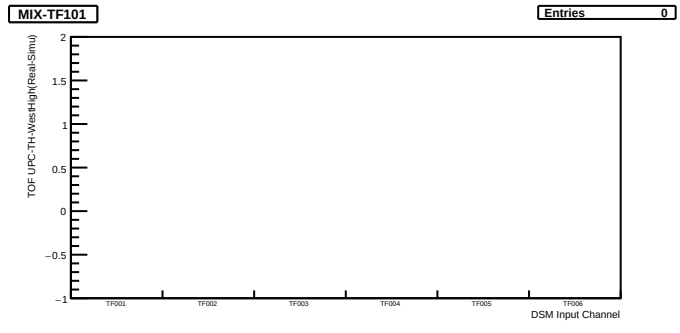

MIX-TF101
Entries 607590
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

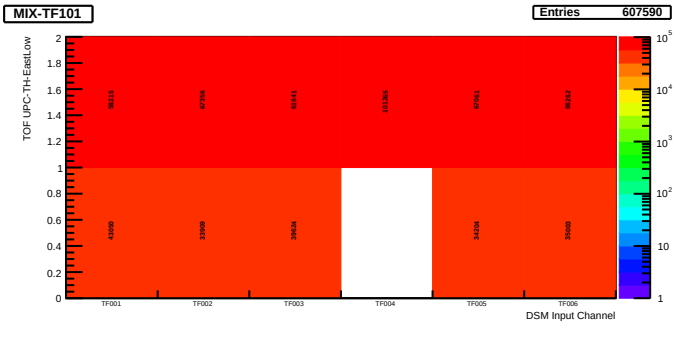

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

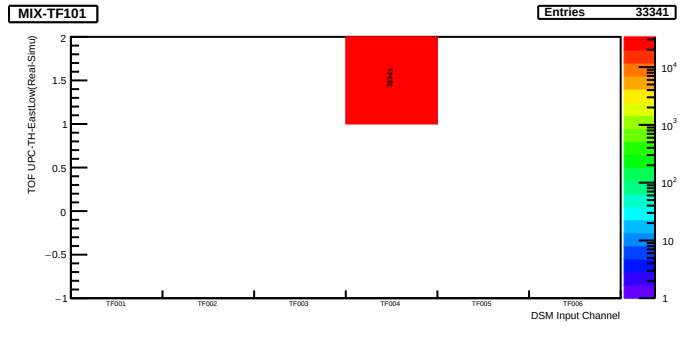

MIX-TF101
Entries 607590
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

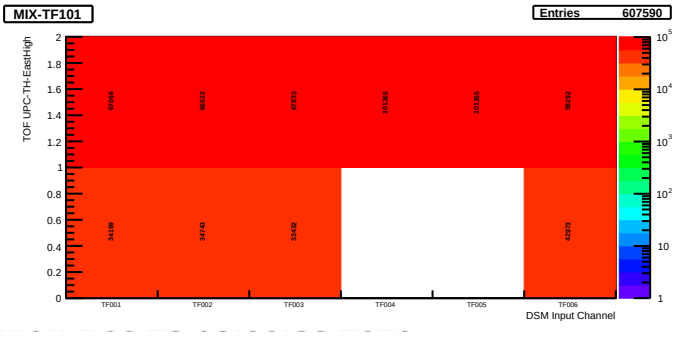

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

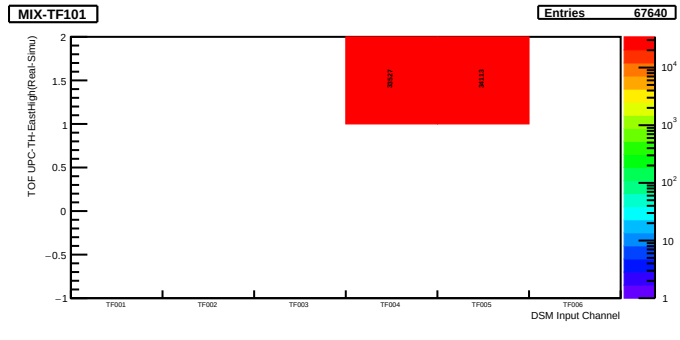

MIX-TF101
Entries 607590
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

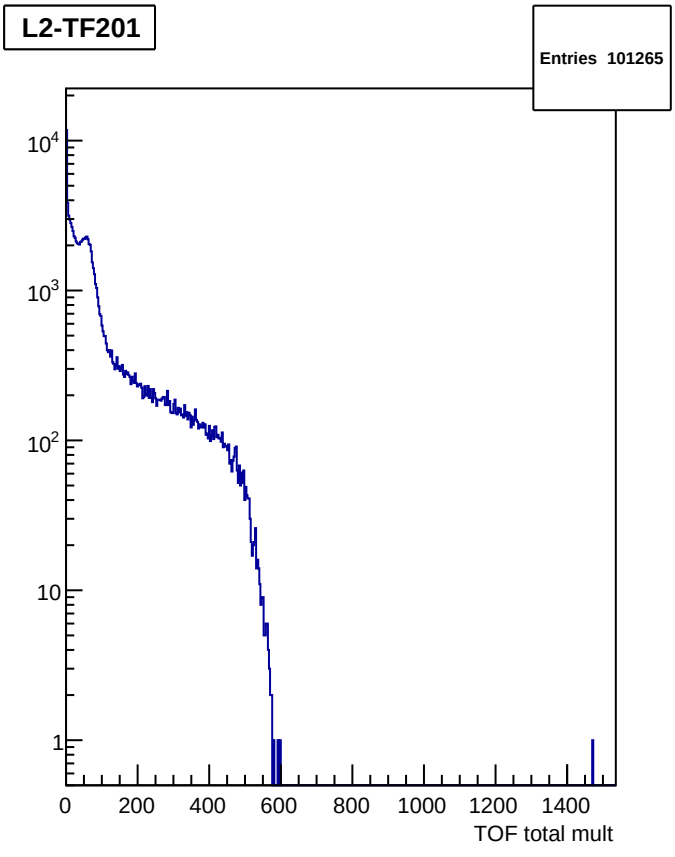

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

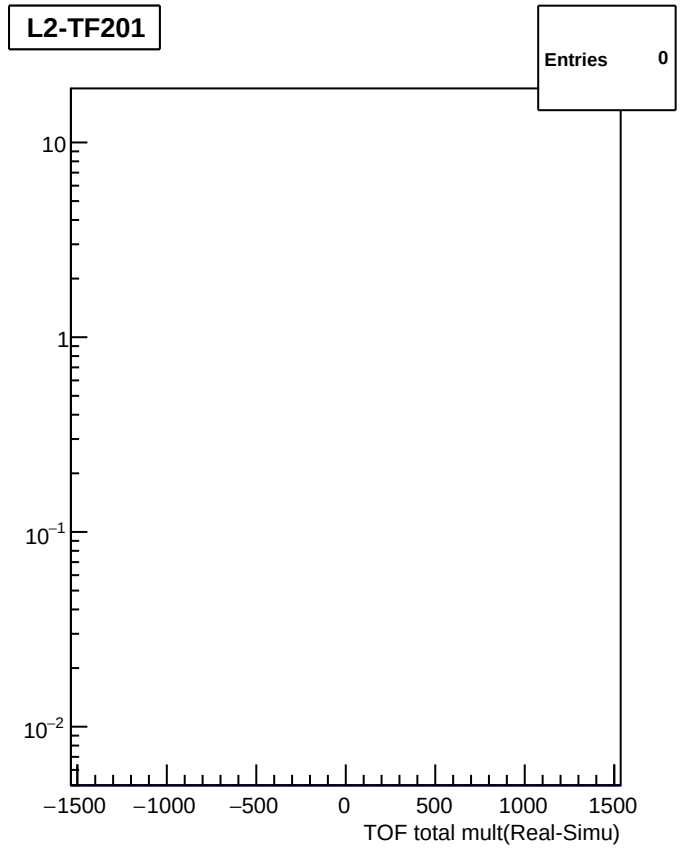

MIX-TF101
Entries 607590
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

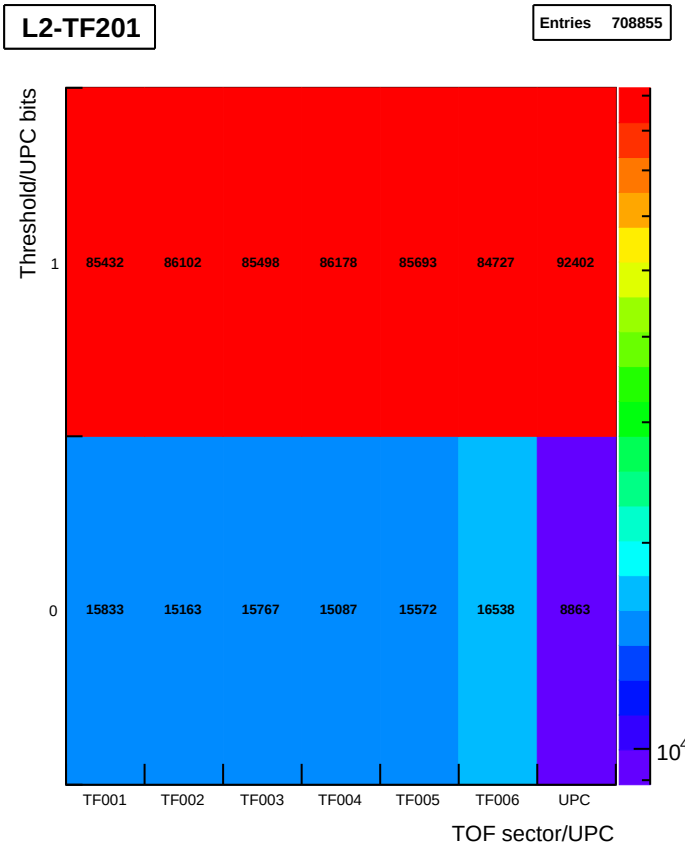

MIX-TF101
Entries 33341
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

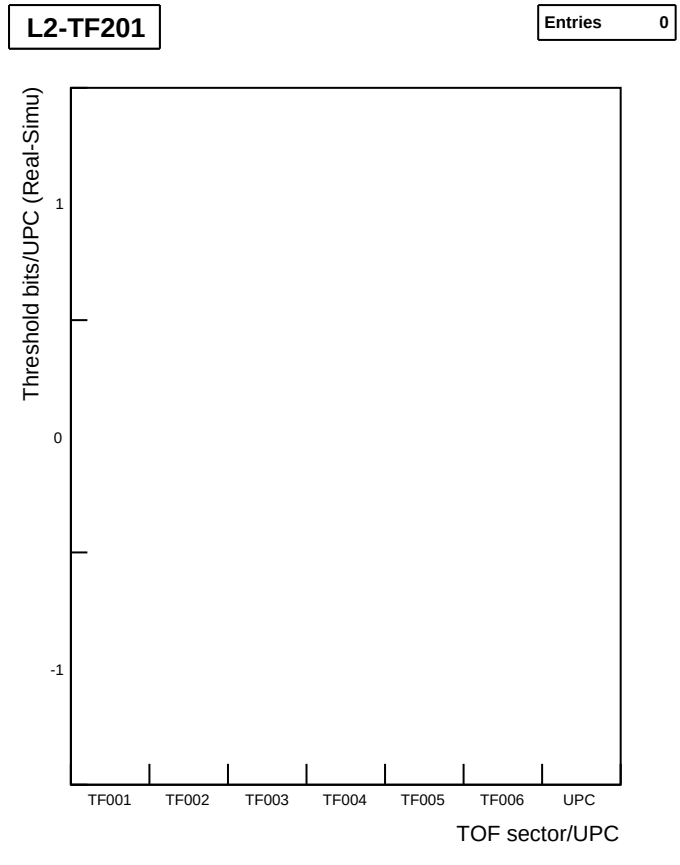

MIX-TF101
Entries 607590
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

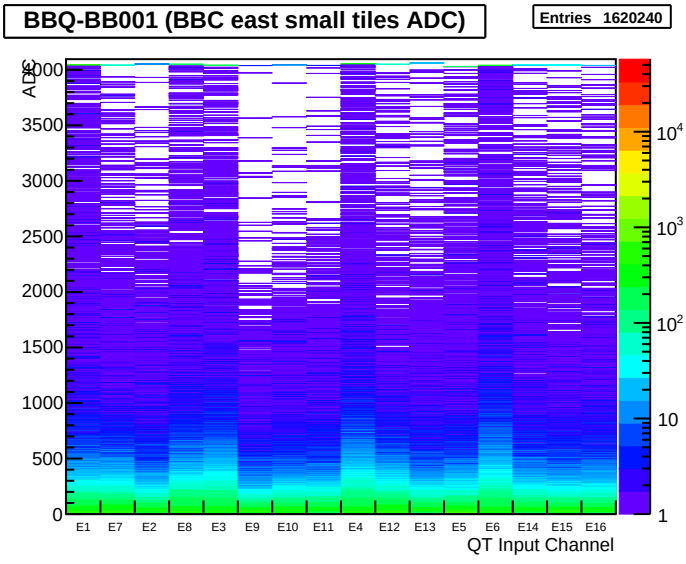

MIX-TF101
Entries 67640
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

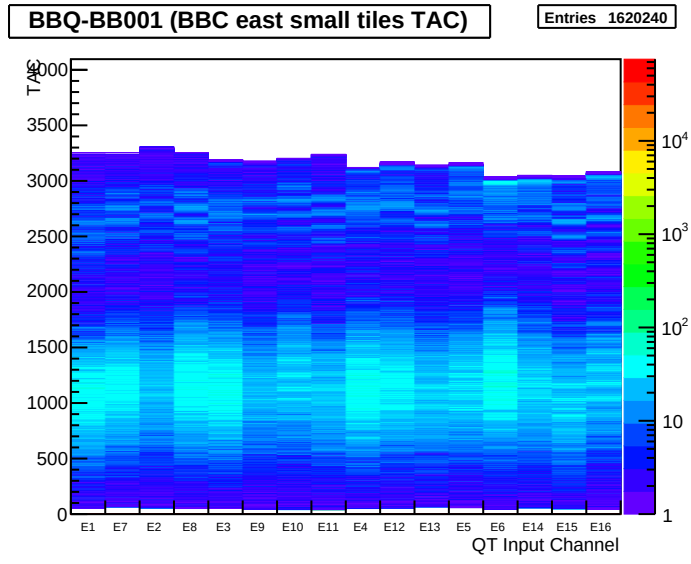

L2-TF201
Entries 101265
TOF total mult

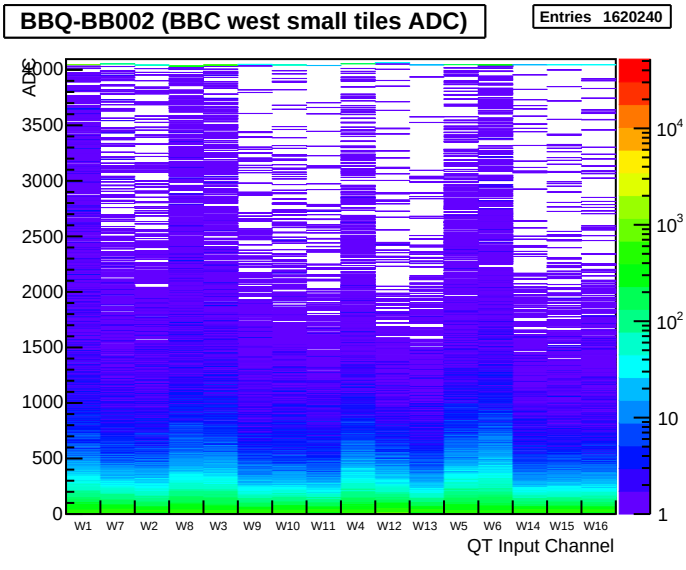

L2-TF201
Entries 0
TOF total mult(Real-Simu)

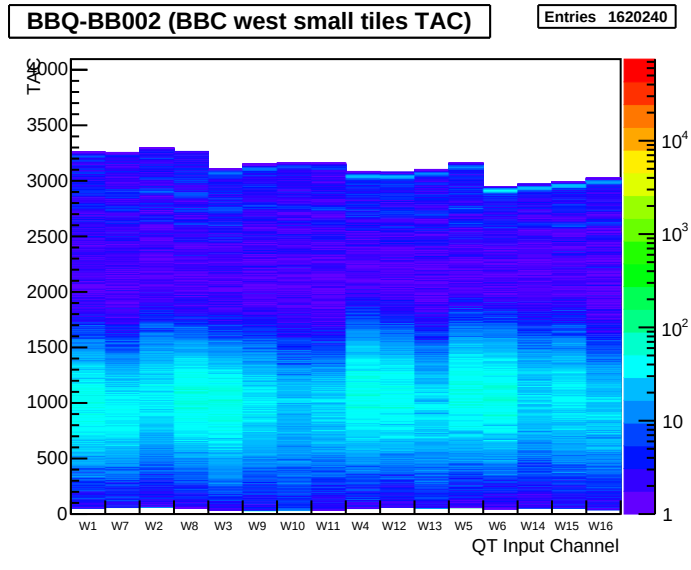

L2-TF201
Entries 708855
Threshold/UPC bits
85432 86102 85498 86178 85693 84727 92402
15833 15163 15767 15087 15572 16538 8863
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

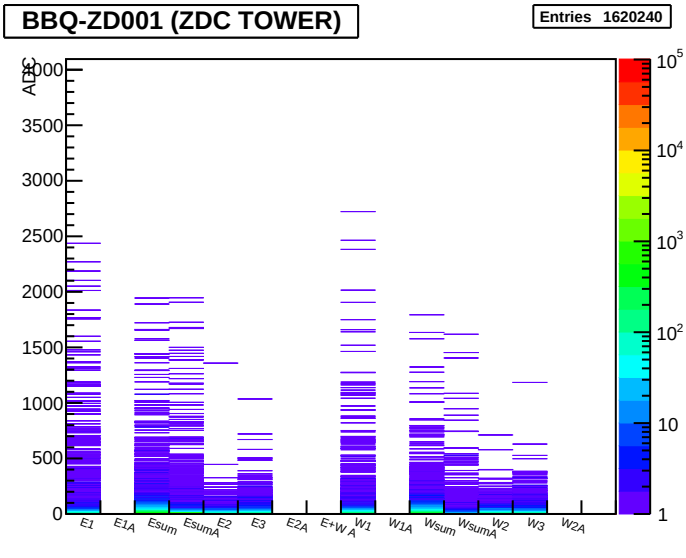

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

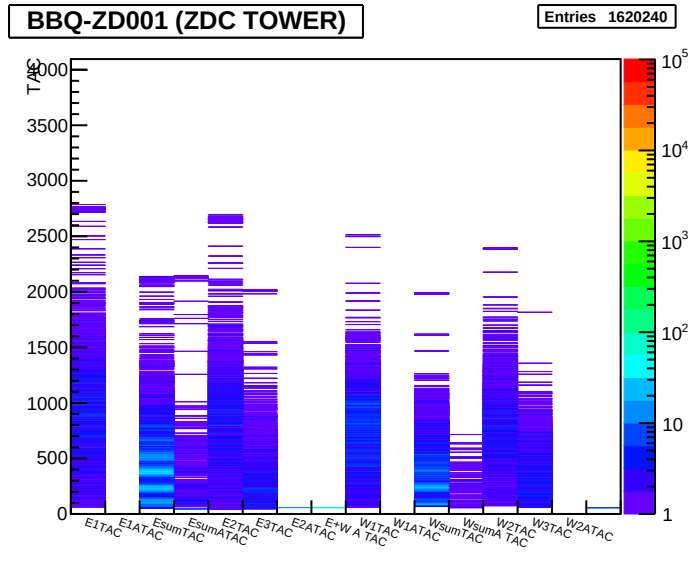

BBQ-BB001 (BBC east small tiles ADC)
Entries 1620240
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

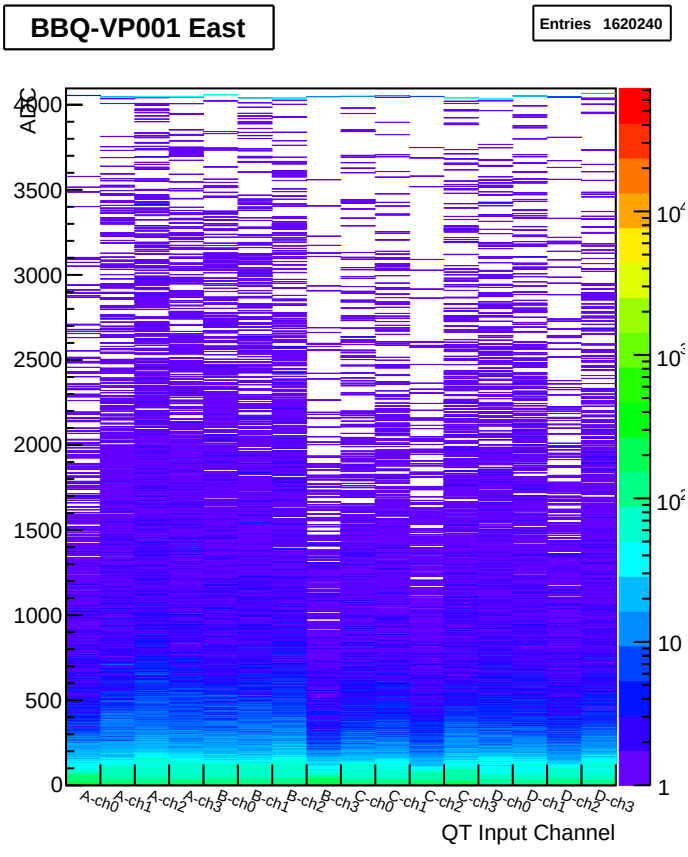

BBQ-BB001 (BBC east small tiles TAC)
Entries 1620240
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

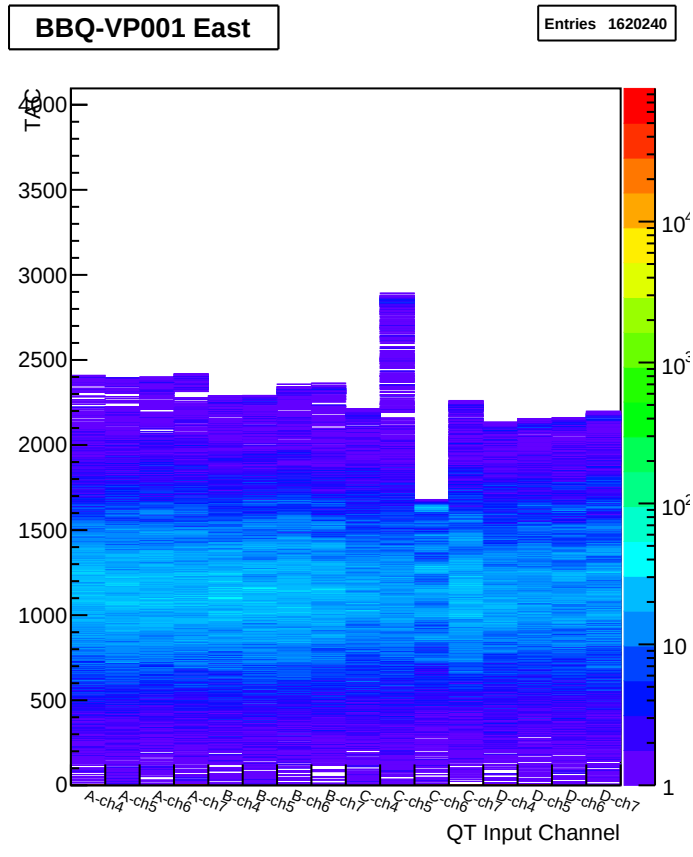

BBQ-BB002 (BBC west small tiles ADC)
Entries 1620240
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

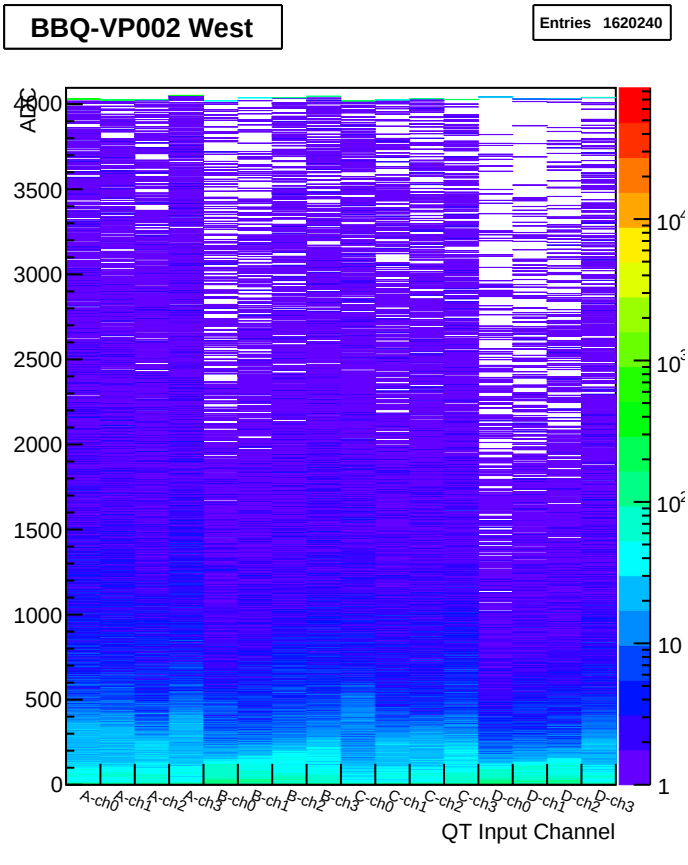

BBQ-BB002 (BBC west small tiles TAC)
Entries 1620240
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

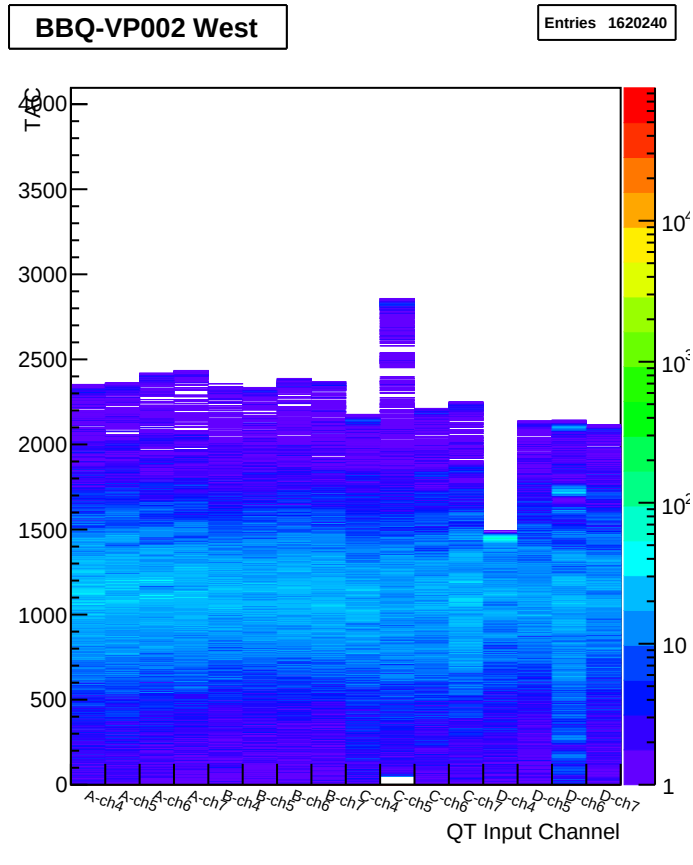

BBQ-ZD001 (ZDC TOWER)
Entries 1620240
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

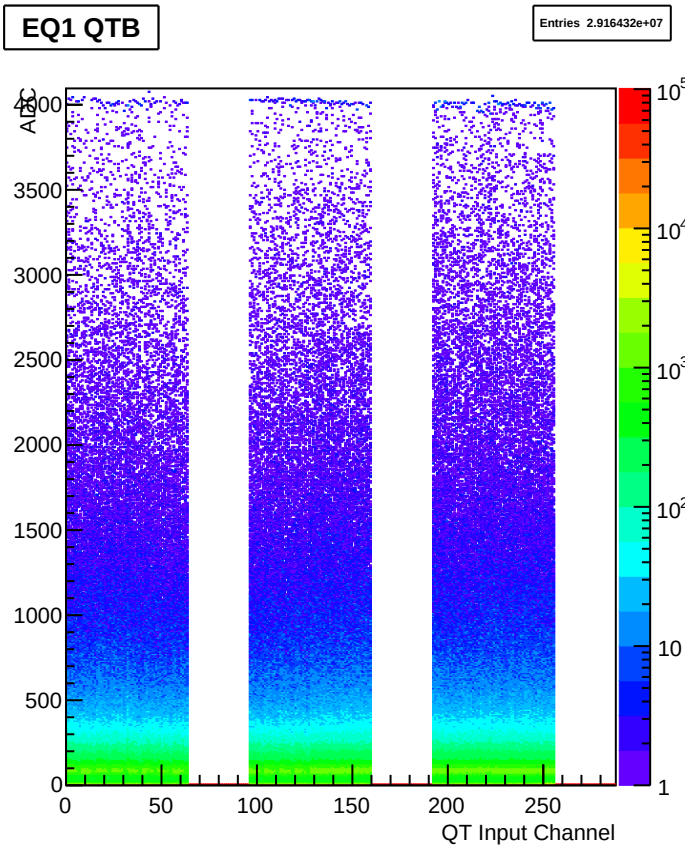

BBQ-ZD001 (ZDC TOWER)
Entries 1620240
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

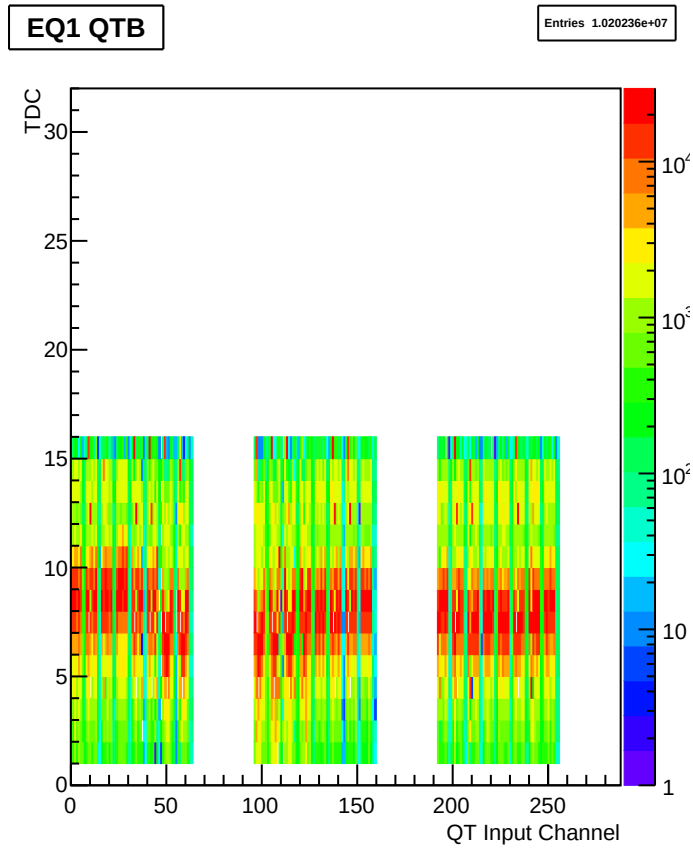

BBQ-VP001 East
Entries 1620240
ADC
QT Input Channel

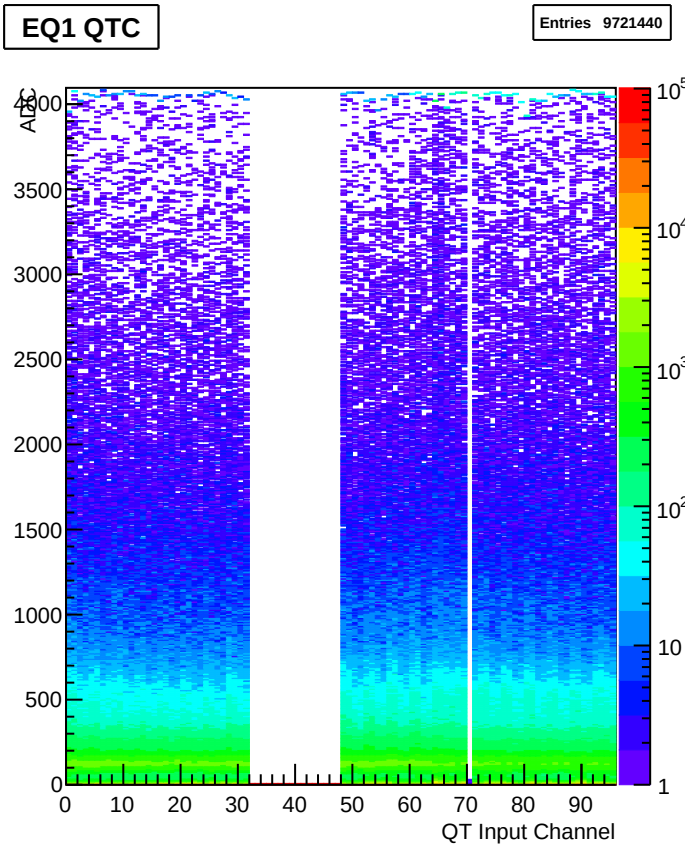

BBQ-VP001 East
Entries 1620240
TADC
QT Input Channel

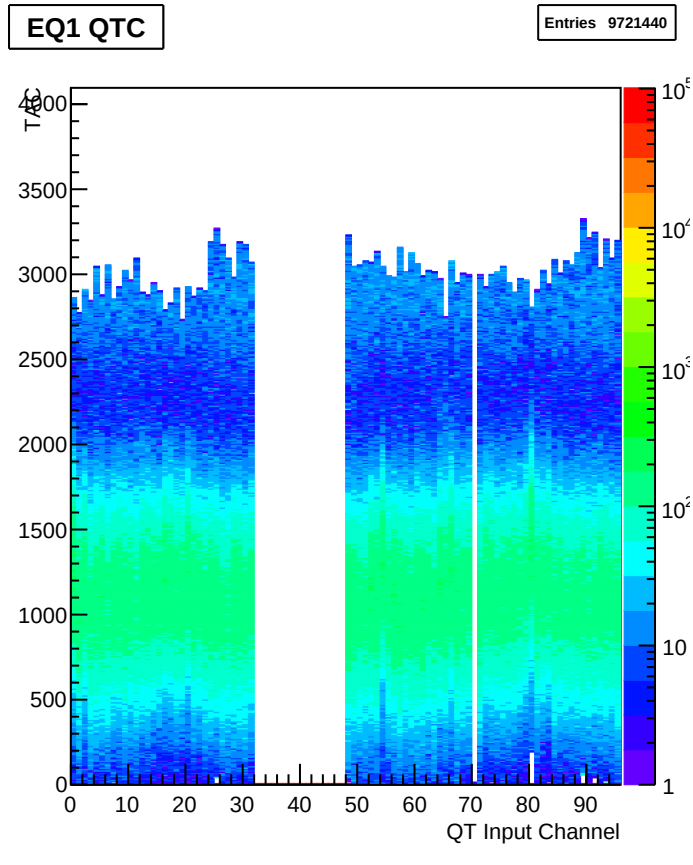

BBQ-VP002 West
Entries 1620240
ADC
QT Input Channel

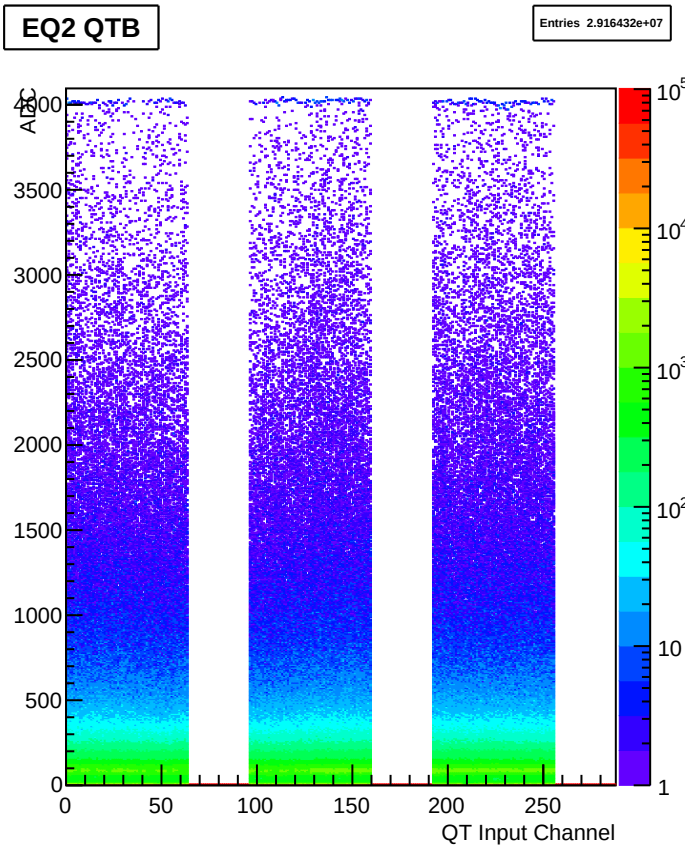

BBQ-VP002 West
Entries 1620240
TADC
QT Input Channel

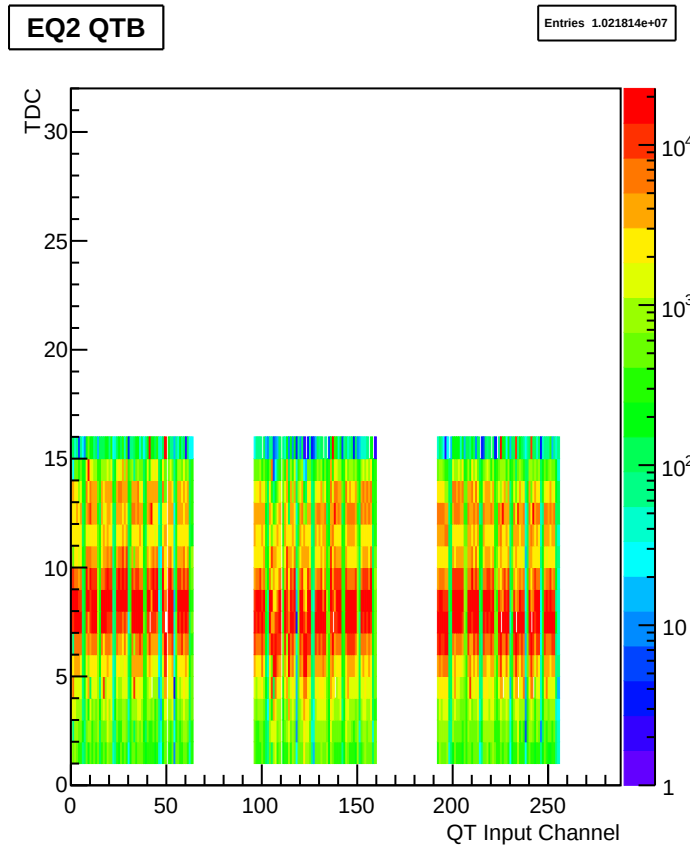

EQ1 QTB
Entries 2.916432e+07
ADC
QT Input Channel

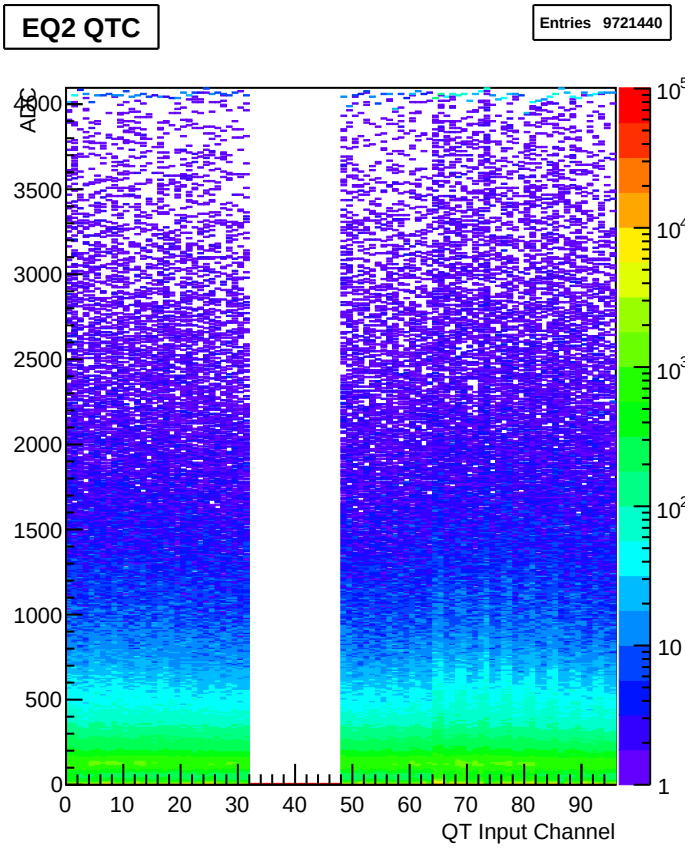

EQ1 QTB
Entries 1.020236e+07
TDC
QT Input Channel

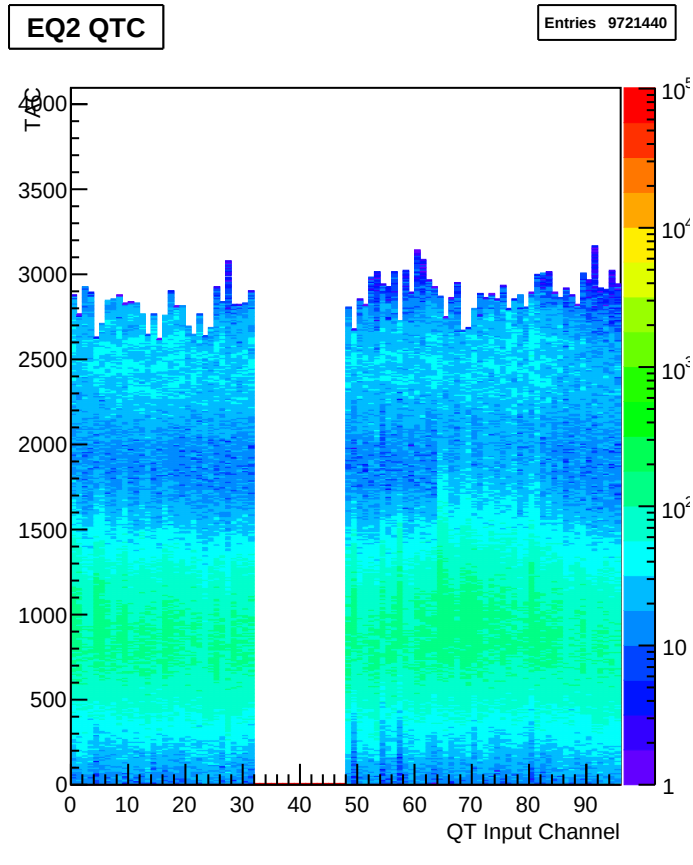

EQ1 QTC
Entries 9721440
ADC
QT Input Channel

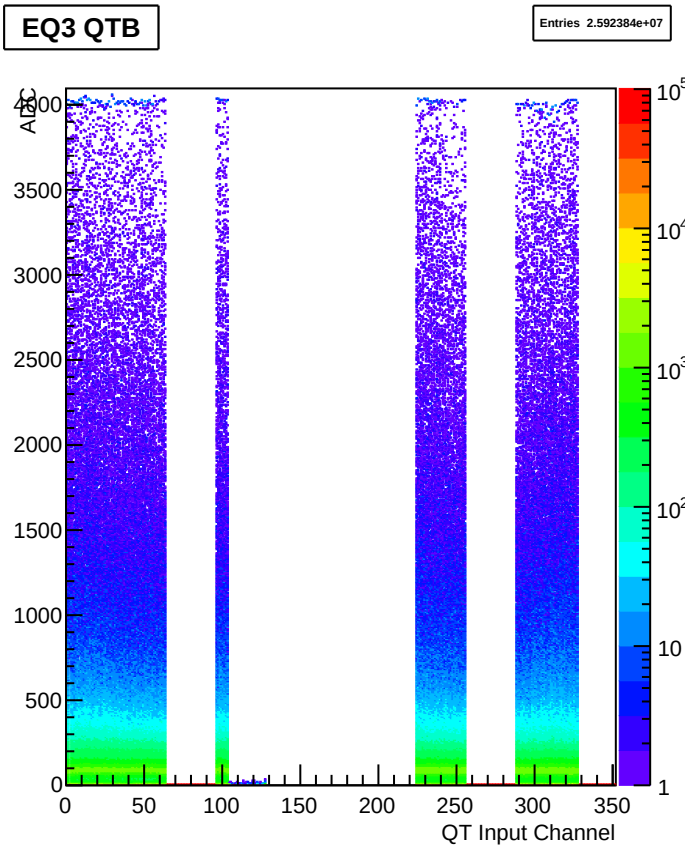

EQ1 QTC
Entries 9721440
TADC
QT Input Channel

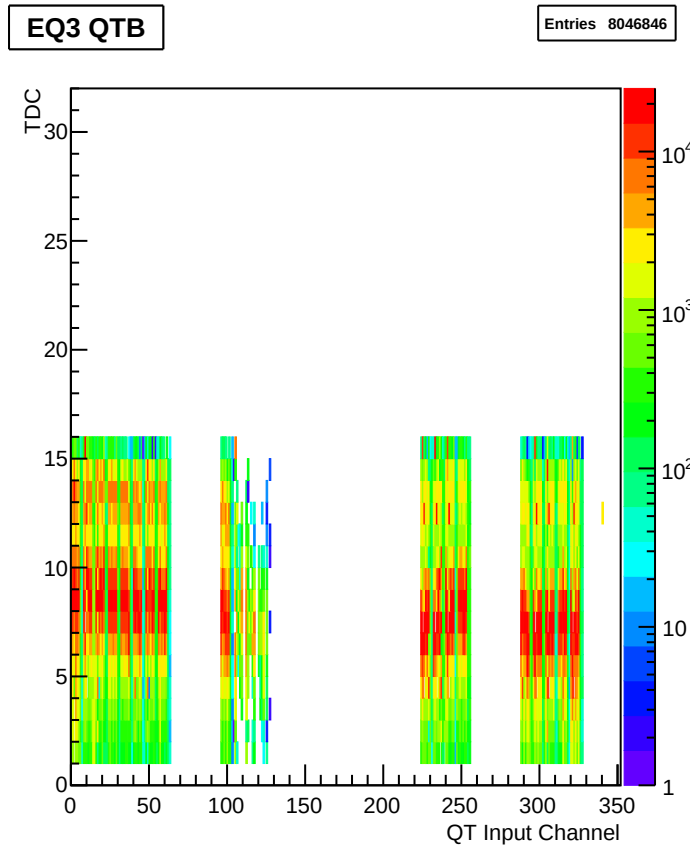

EQ2 QTB
Entries 2.916432e+07
ADC
QT Input Channel

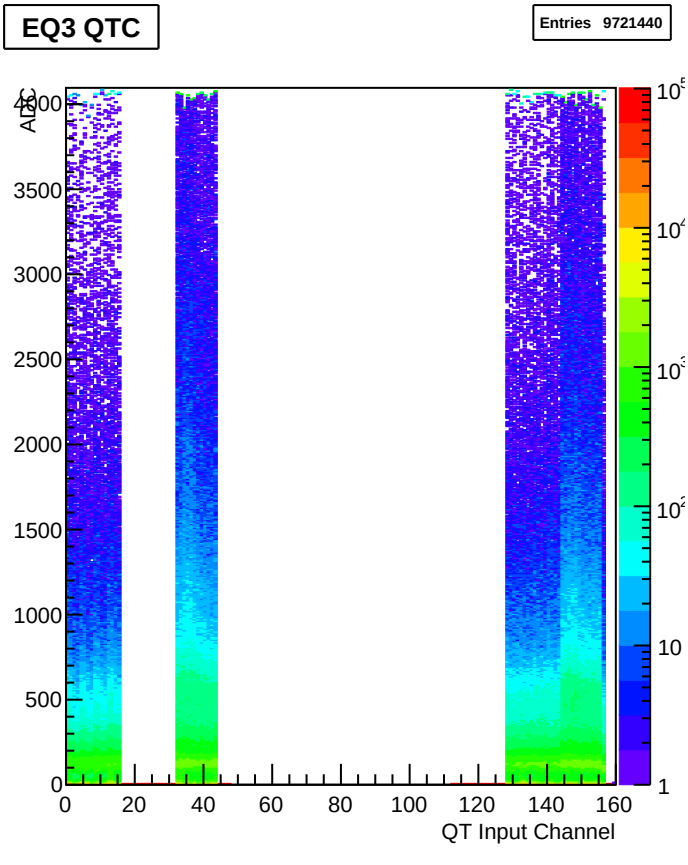

EQ2 QTB
Entries 1.021814e+07
TDC
QT Input Channel

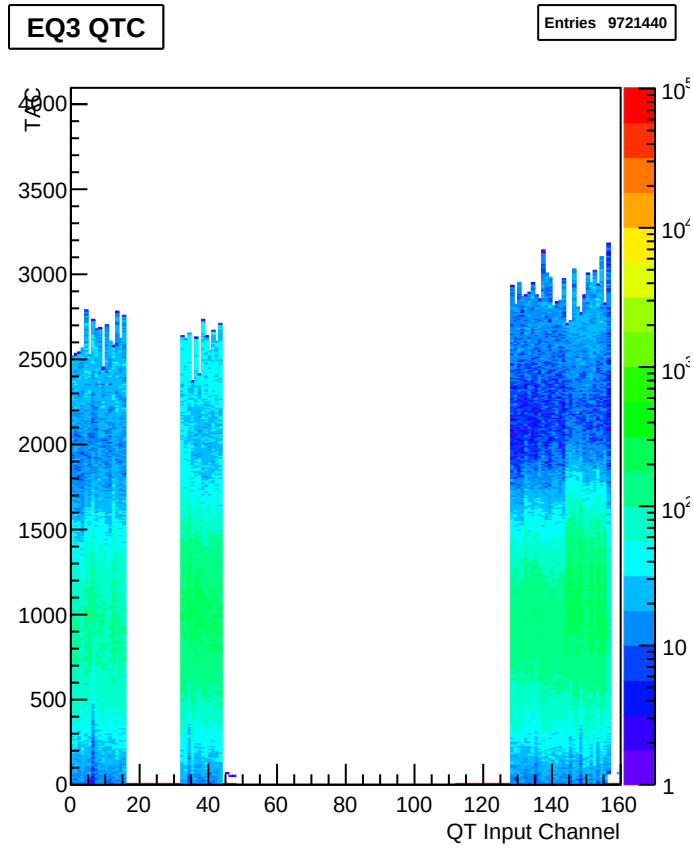

EQ2 QTC
Entries 9721440
ADC
QT Input Channel

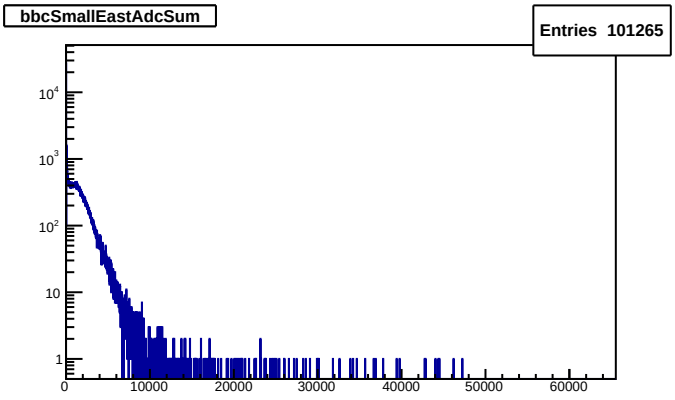

EQ2 QTC
Entries 9721440
TADC
QT Input Channel

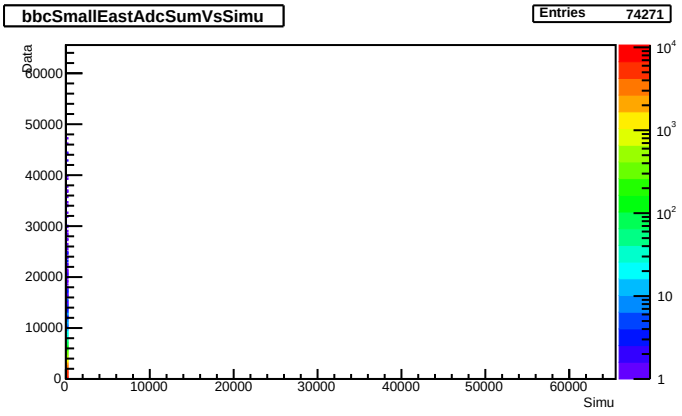

EQ3 QTB
Entries 2.592384e+07
ADC
QT Input Channel

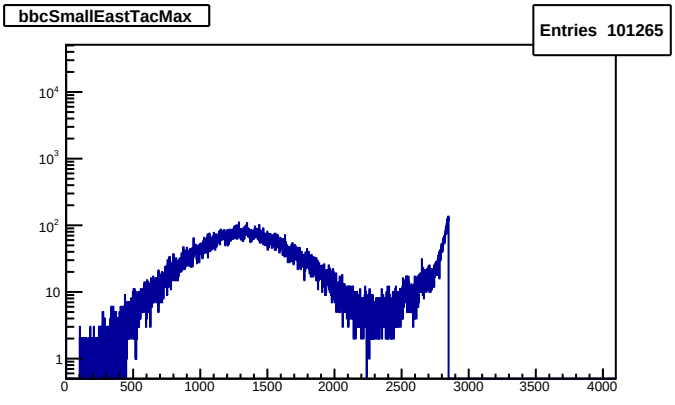

EQ3 QTB
Entries 8046846
TDC
QT Input Channel

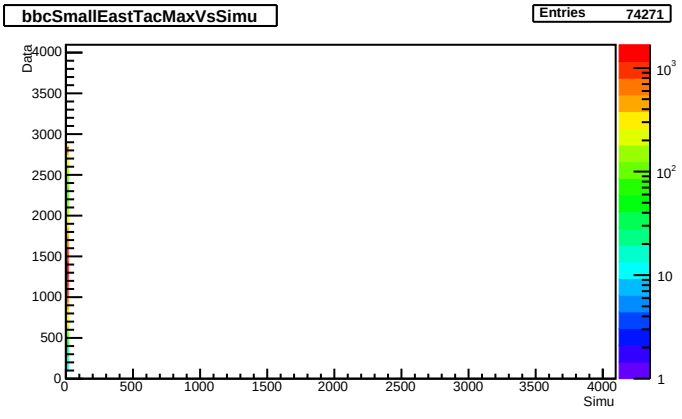

EQ3 QTC
Entries 9721440
ADC
QT Input Channel


EQ3 QTC
Entries 9721440
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 101265


bbcSmallEastAdcSumVsSimu
Entries 74271
Data
Simu


bbcSmallEastTacMax
Entries 101265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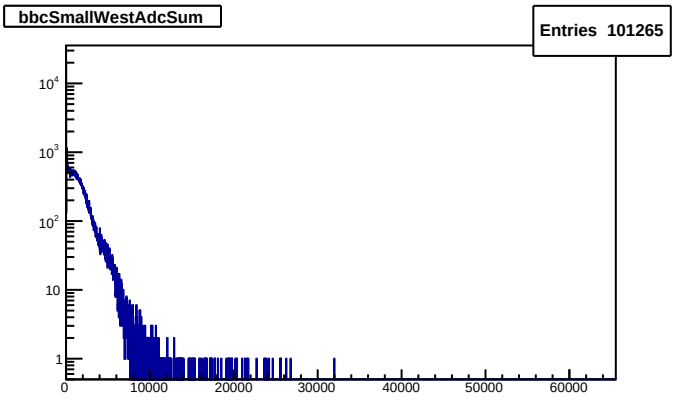
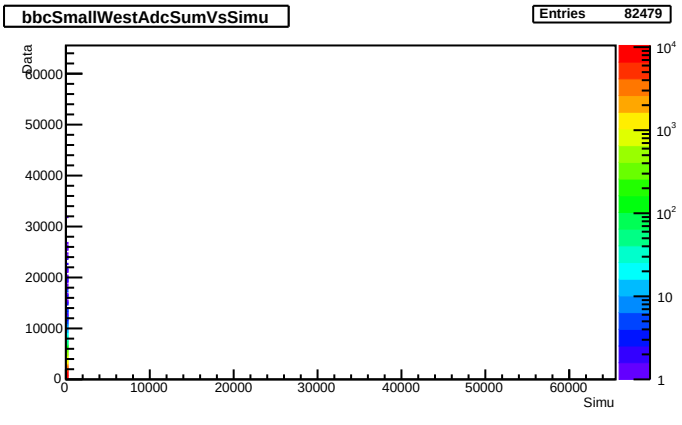
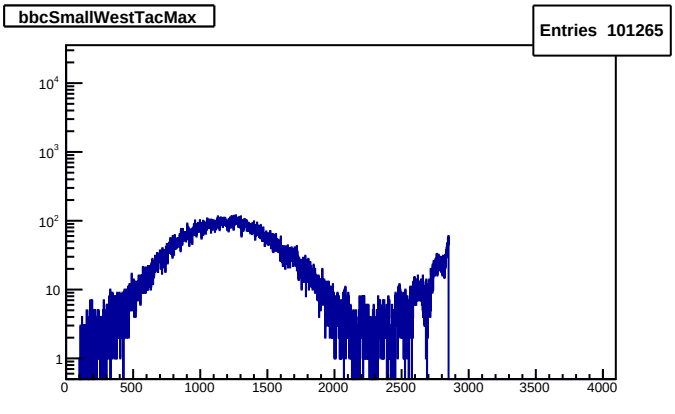
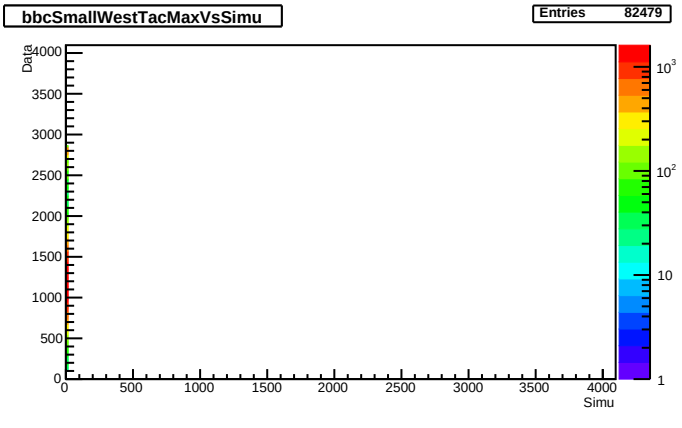
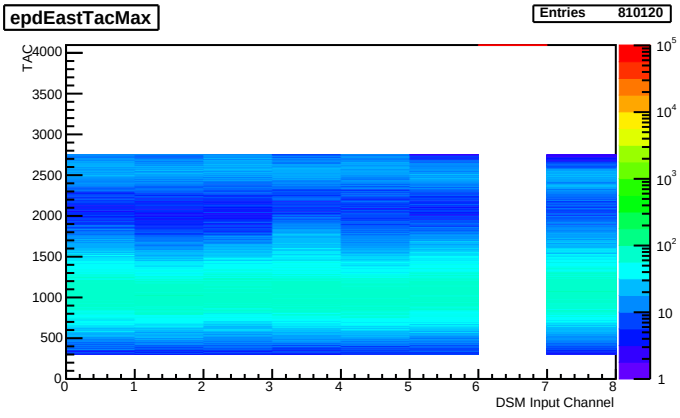
Entries 74271
Data
Simu

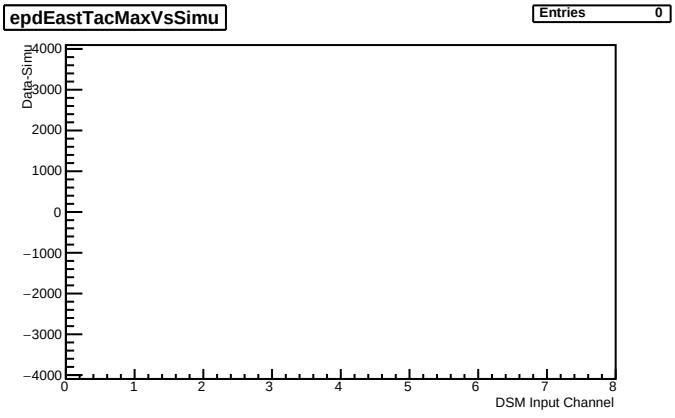

bbcSmallWestAdcSum
Entries 101265

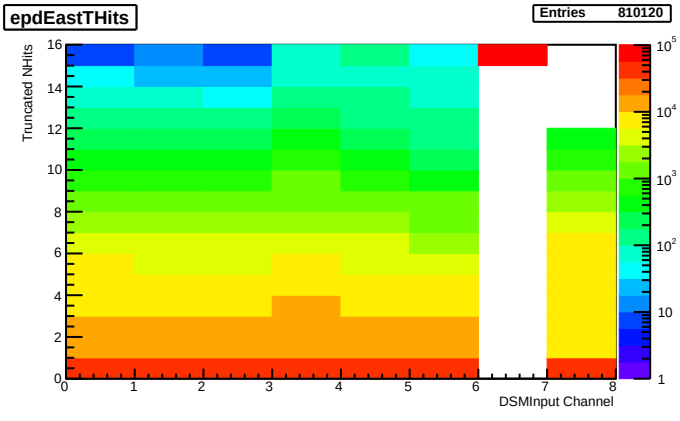

bbcSmallWestAdcSumVsSimu
Entries 82479
Data
Simu

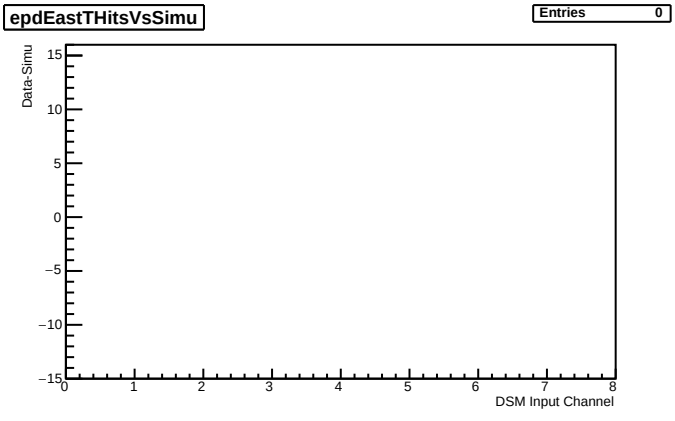

bbcSmallWestTacMax
Entries 101265

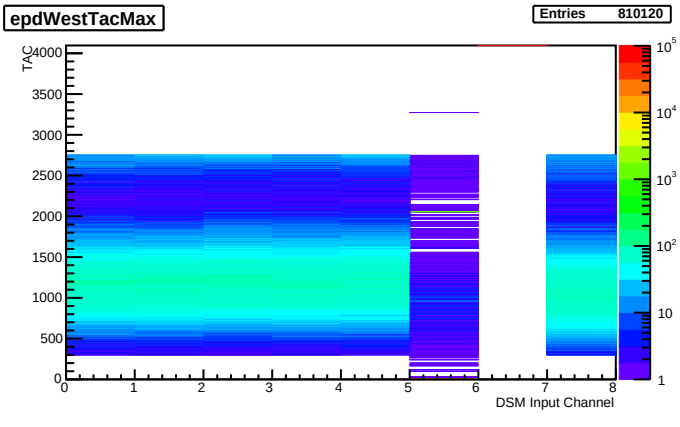

bbcSmallWestTacMaxVsSimu
Entries 82479
Data
Simu

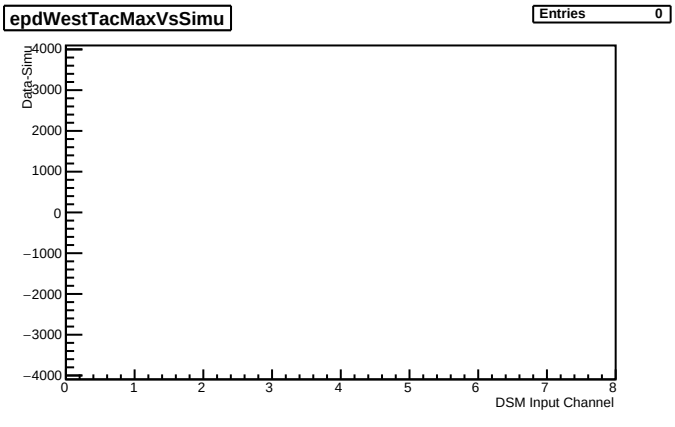

epdEastTacMax
Entries 810120
TAC
DSM Input Channel

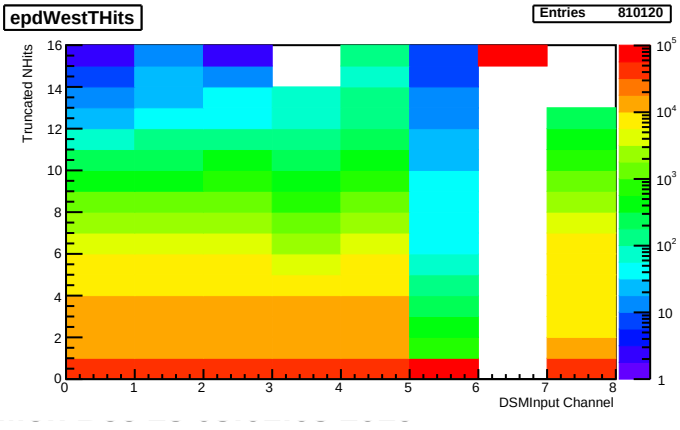

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

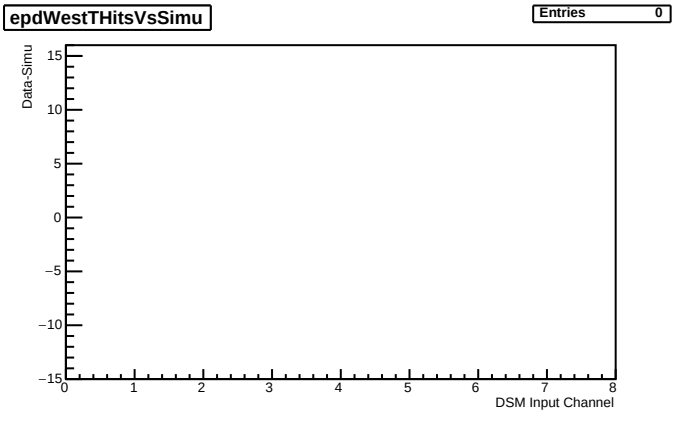

epdEastTHits
Entries 810120
Truncated NHits
DSMInput Channel

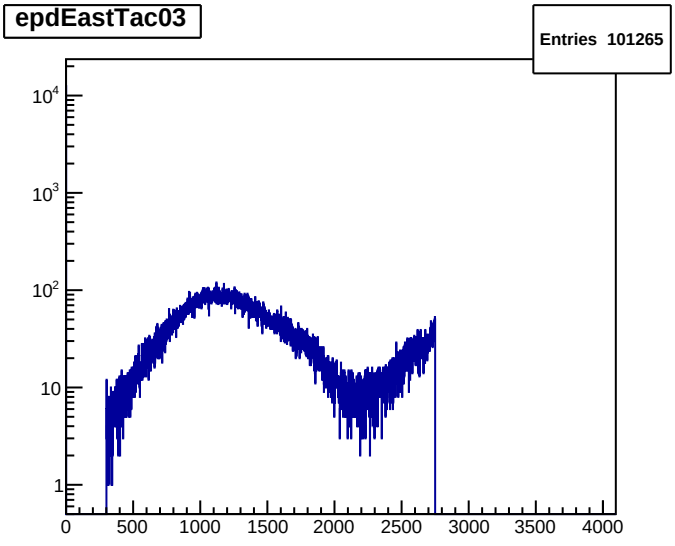

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

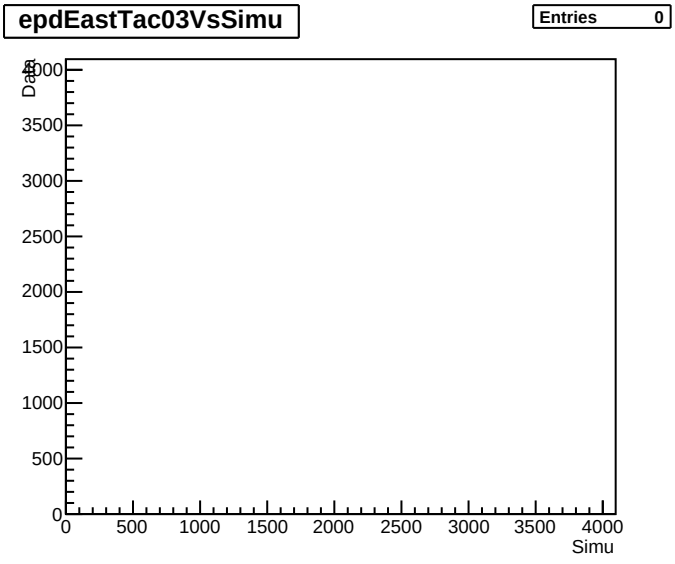

epdWestTacMax
Entries 810120
TAC
DSM Input Channel

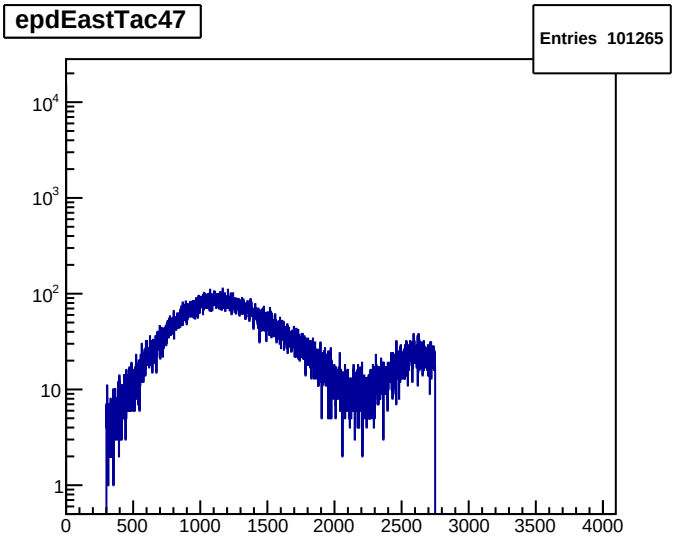

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

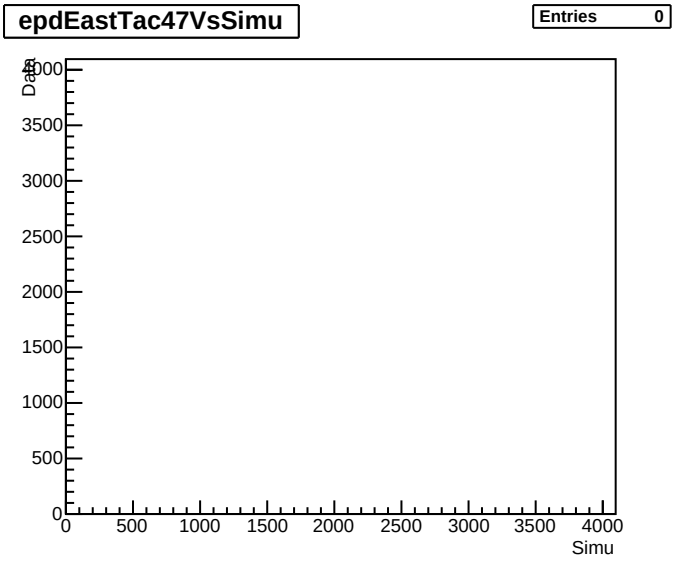

epdWestTHits
Entries 810120
Truncated NHits
DSMInput Channel

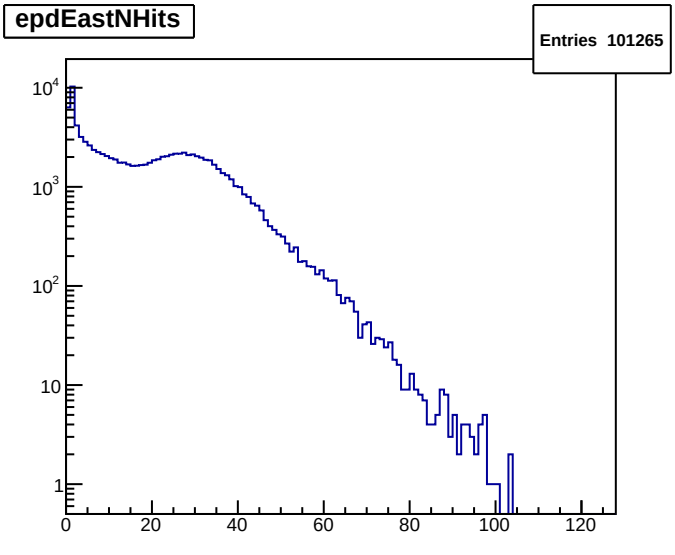

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

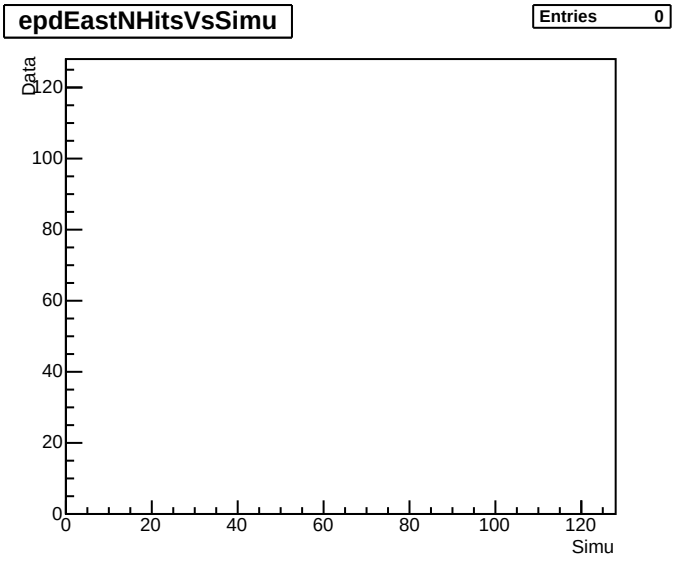

epdEastTac03
Entries 101265


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 101265


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 101265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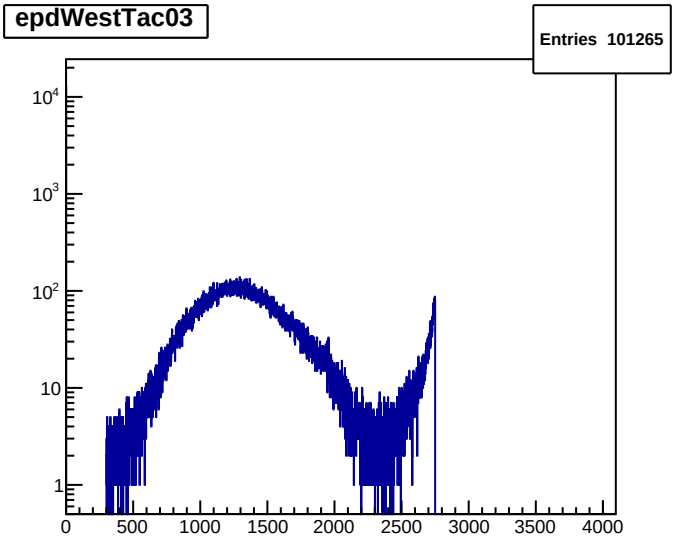
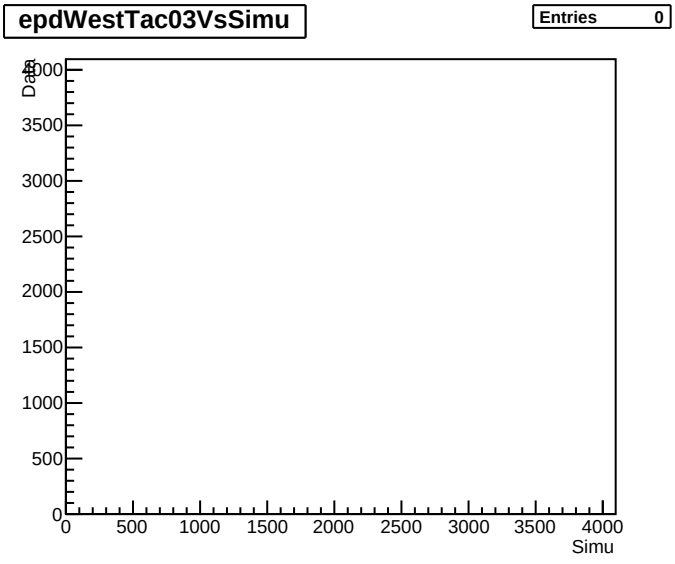
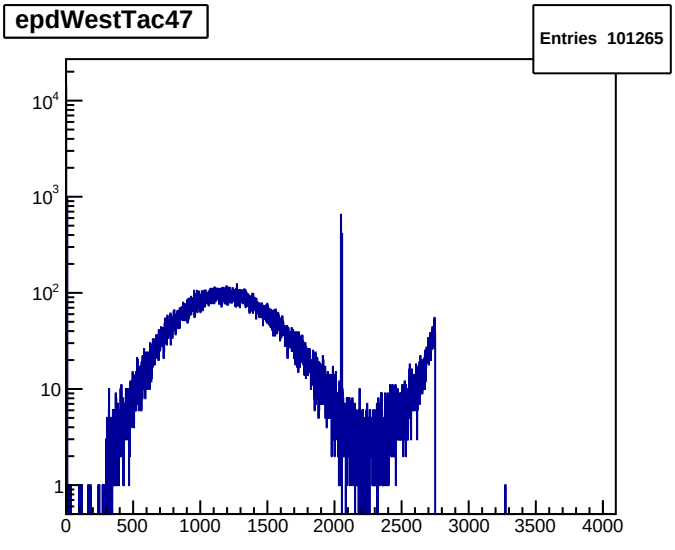
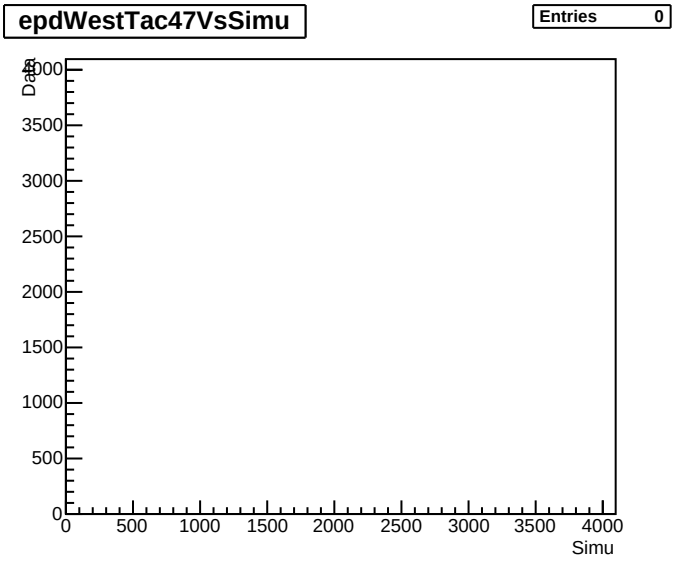
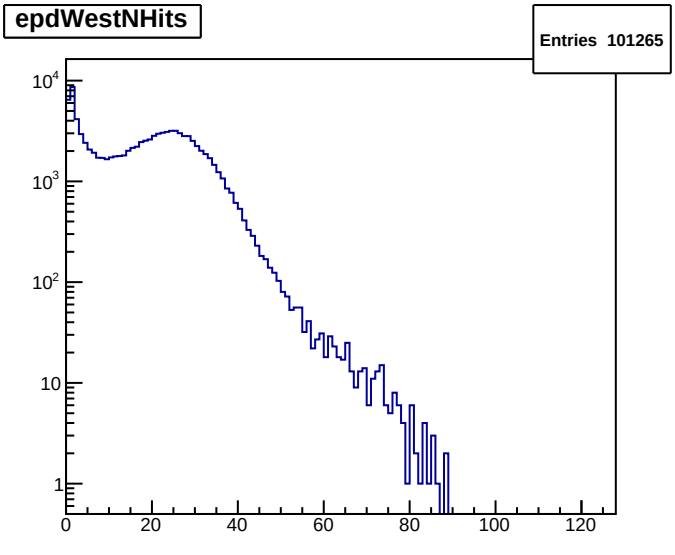
Entries 0
Data
Simu

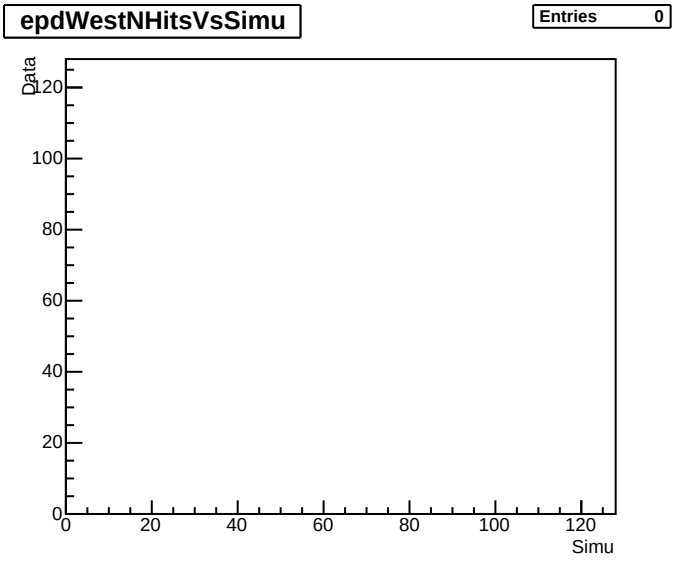

epdWestTac03
Entries 101265

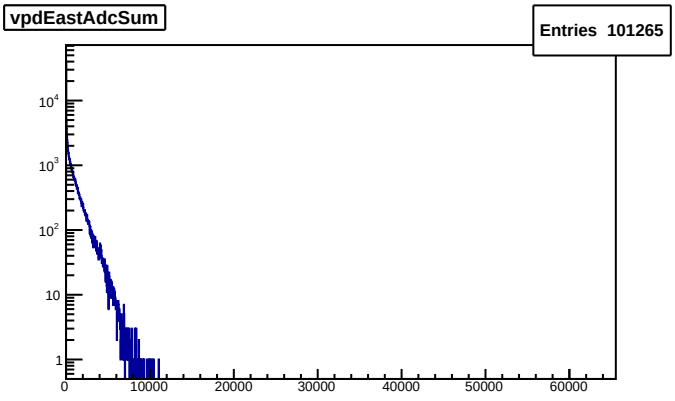

epdWestTac03VsSimu
Entries 0
Data
Simu

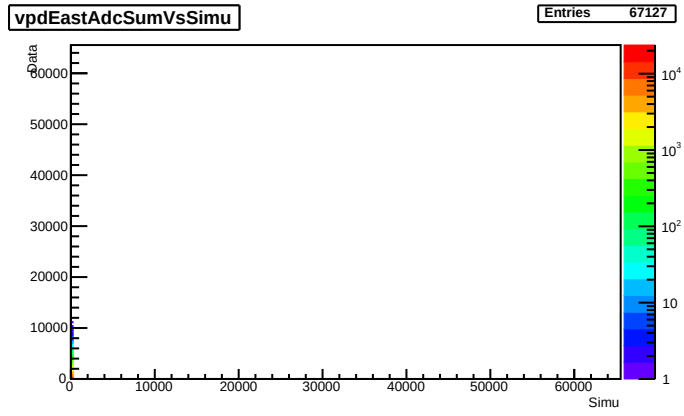

epdWestTac47
Entries 101265

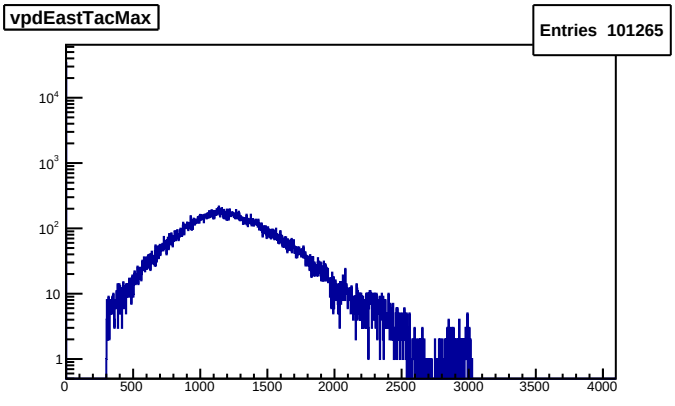

epdWestTac47VsSimu
Entries 0
Data
Simu

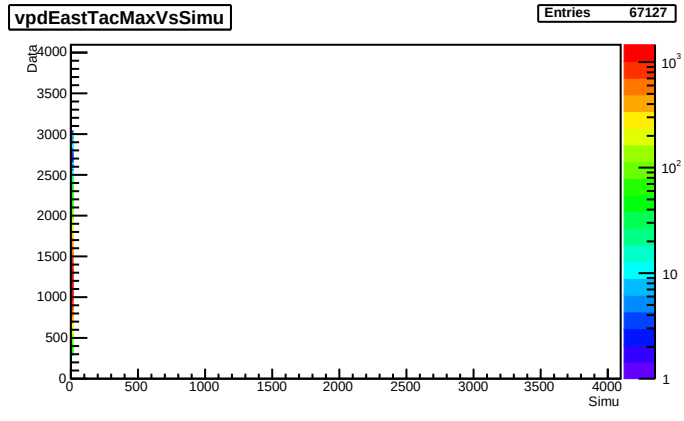

epdWestNHits
Entries 101265

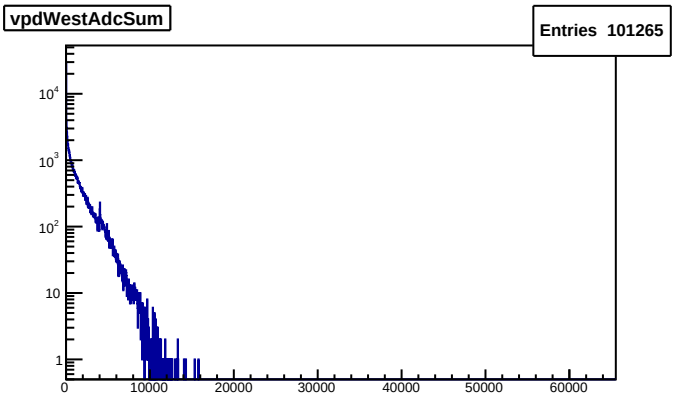

epdWestNHitsVsSimu
Entries 0
Data
Simu

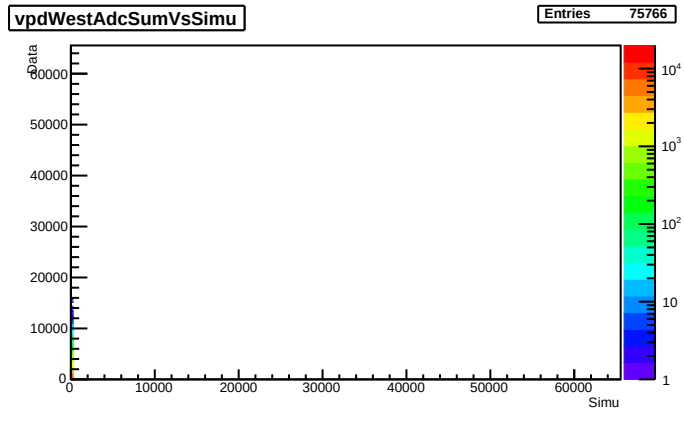

vpdEastAdcSum
Entries 101265

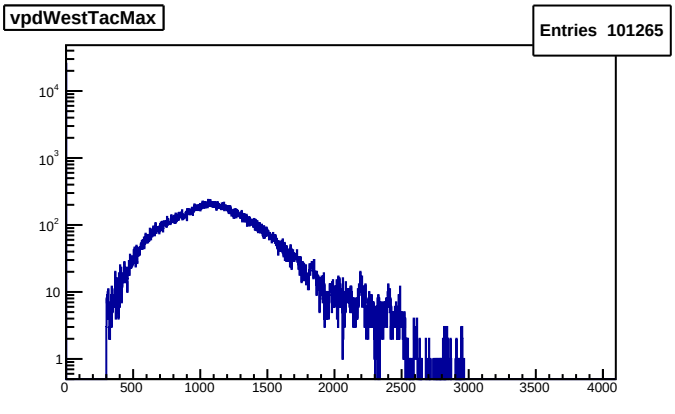

vpdEastAdcSumVsSimu
Entries 67127
Data
Simu

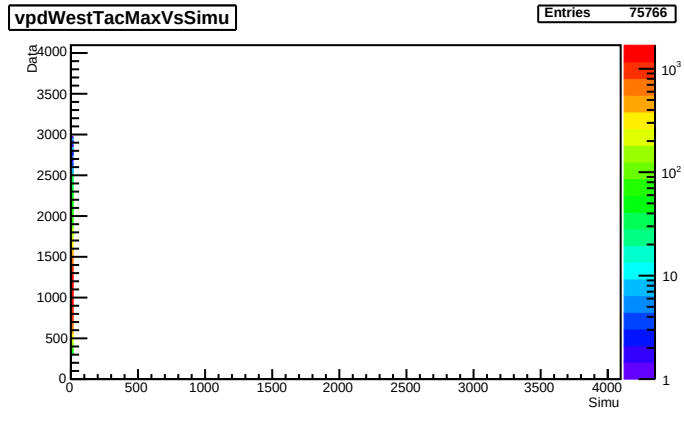

vpdEastTacMax
Entries 101265

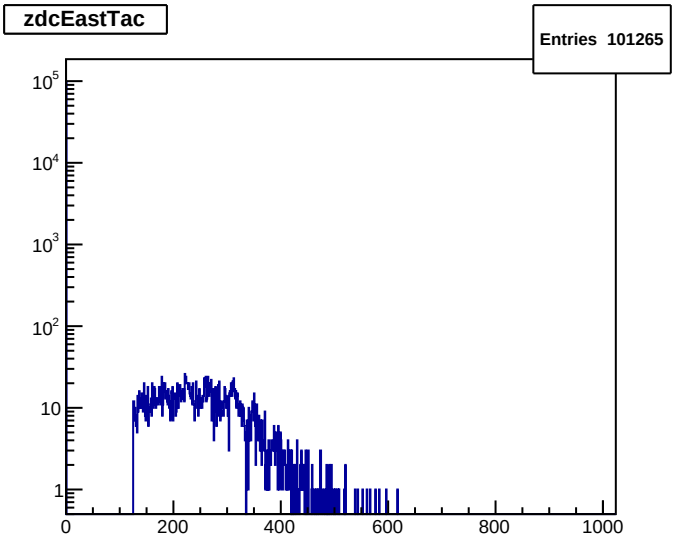

vpdEastTacMaxVsSimu
Entries 67127
Data
Simu

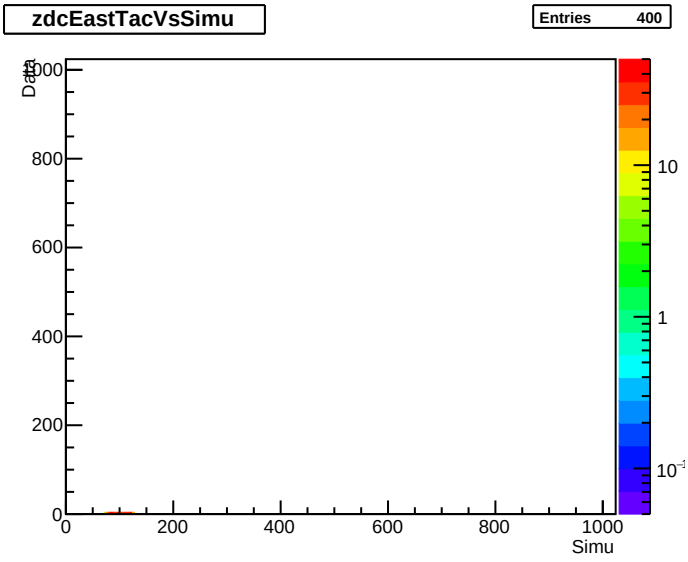

vpdWestAdcSum
Entries 101265

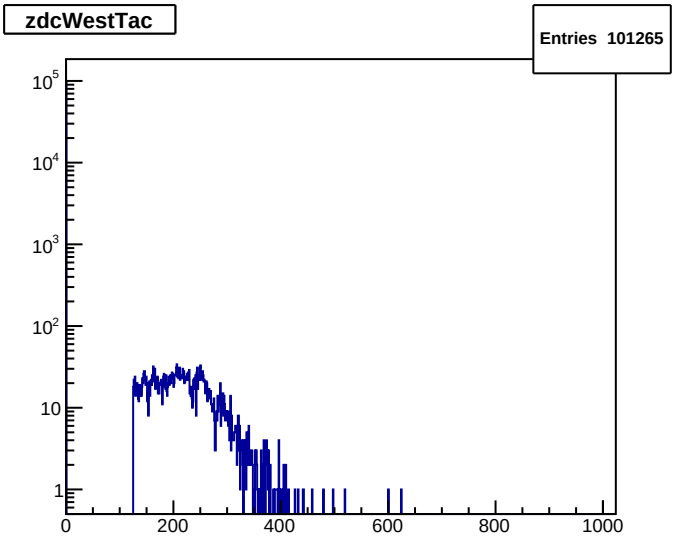

vpdWestAdcSumVsSimu
Entries 75766
Data
Simu

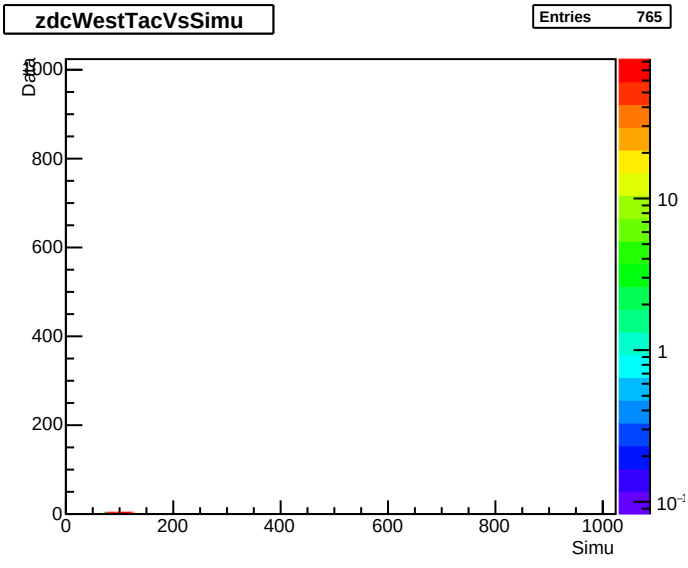

vpdWestTacMax
Entries 101265

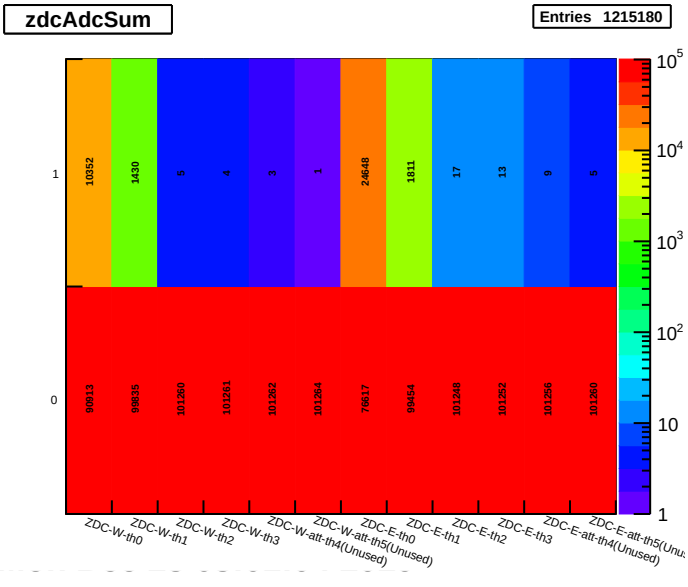

vpdWestTacMaxVsSimu
Entries 75766
Data
Simu

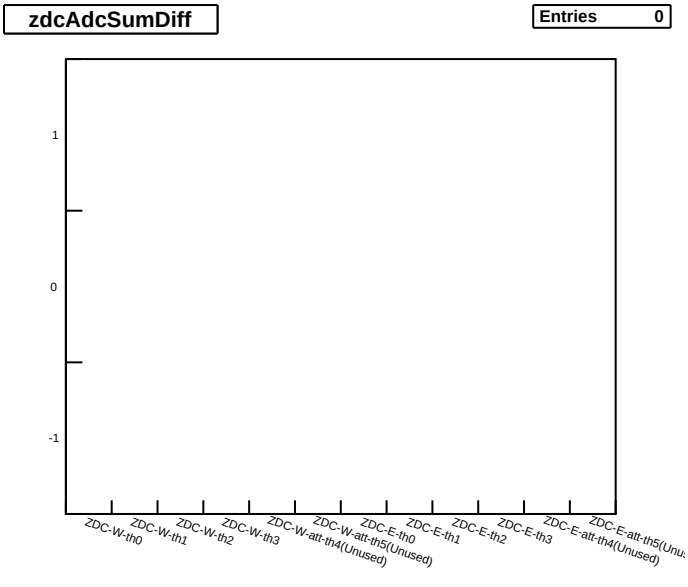

zdcEastTac
Entries 101265

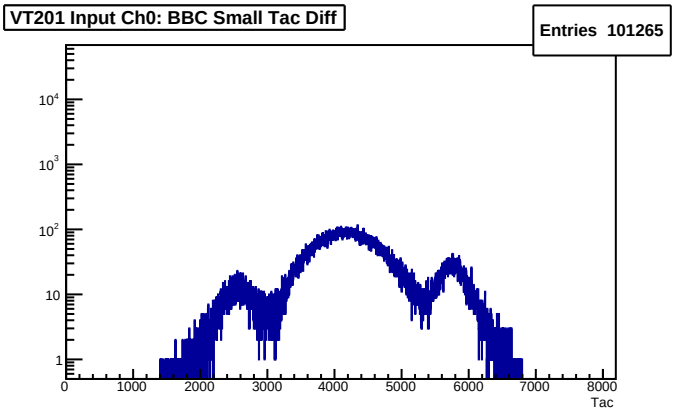

zdcEastTacVsSimu
Entries 400
Data
Simu

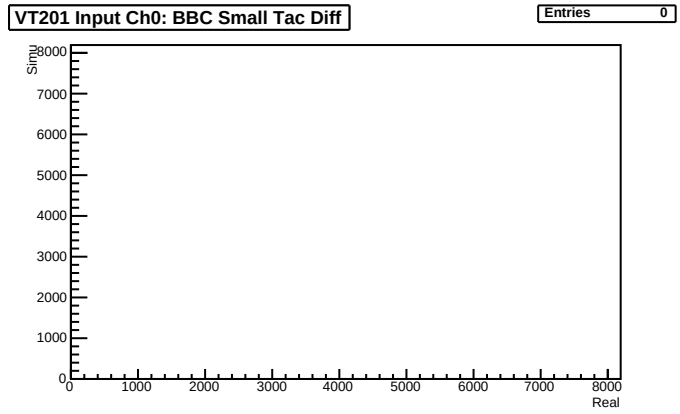

zdcWestTac
Entries 101265

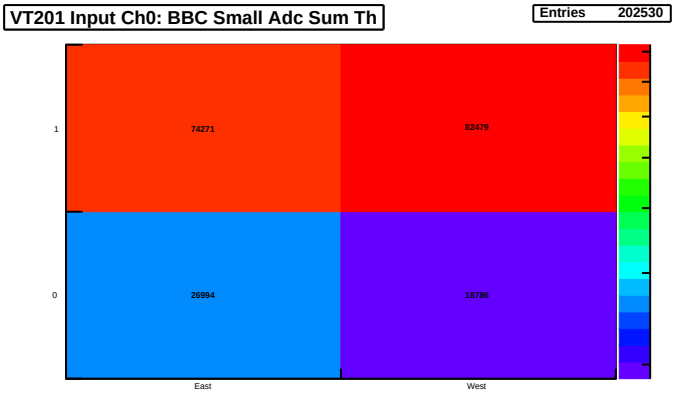

zdcWestTacVsSimu
Entries 765
Data
Simu

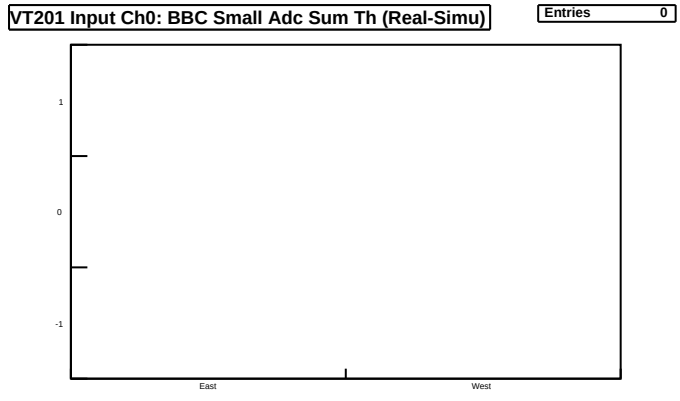

zdcAdcSum
Entries 1215180
10352
1430
5
4
3
1
24648
1811
17
13
9
5
90913
98835
101260
101261
101262
101264
76617
99454
101248
101252
101256
101260
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

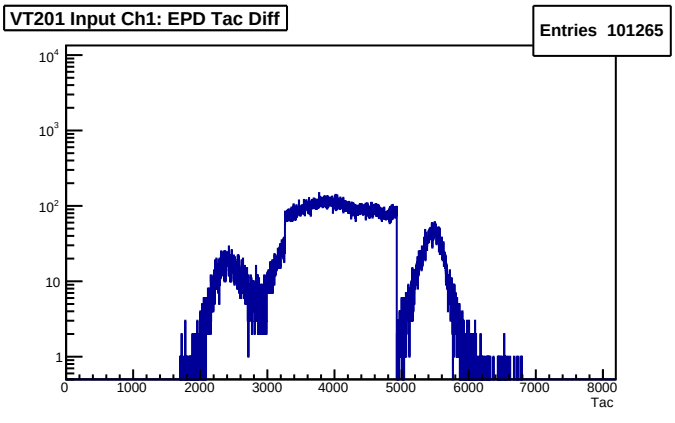

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

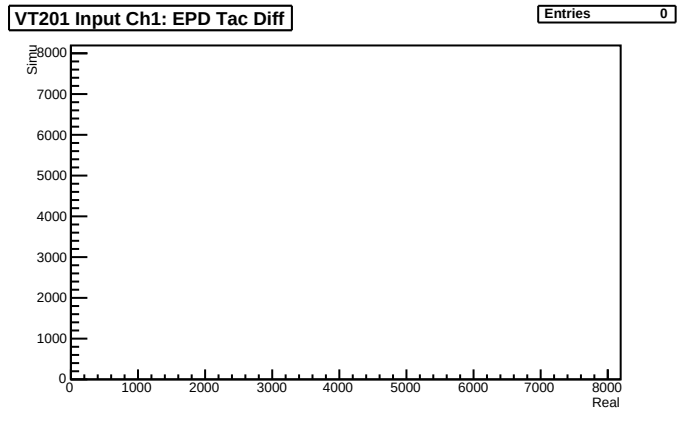

VT201 Input Ch0: BBC Small Tac Diff
Entries 101265
Tac

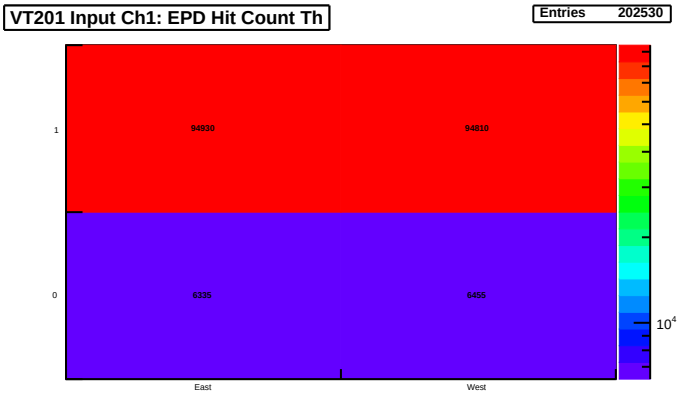

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

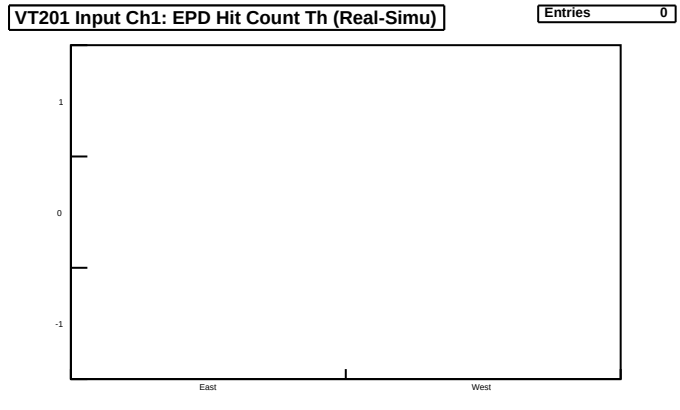

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 202530
74271
82479
26994
18786
East
West

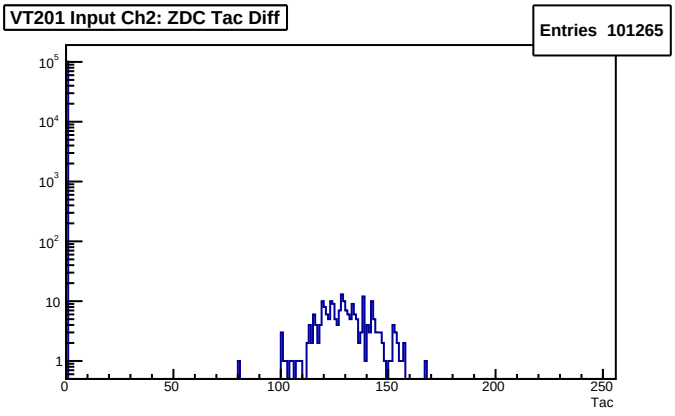

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

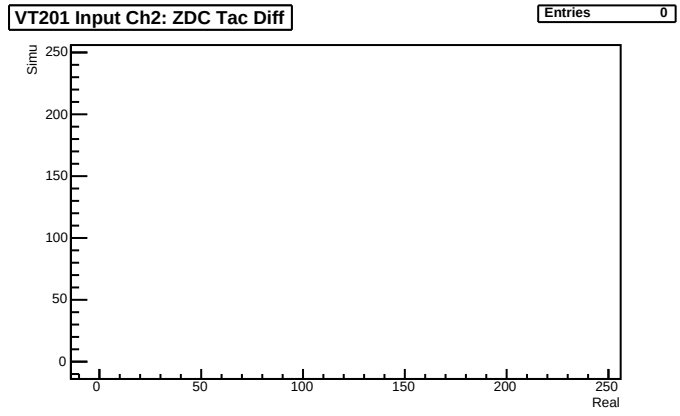

VT201 Input Ch1: EPD Tac Diff
Entries 101265
Tac

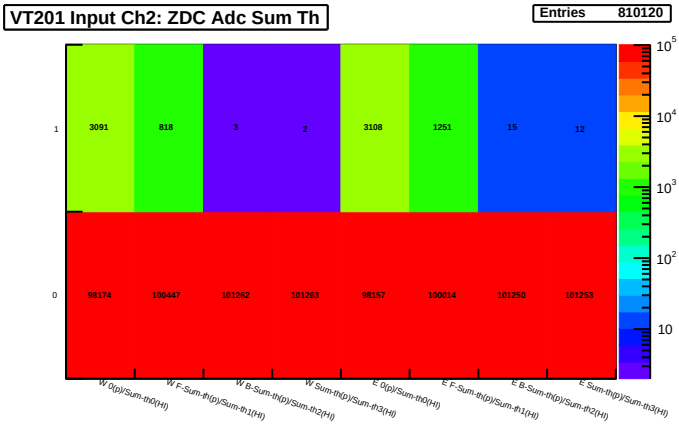

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

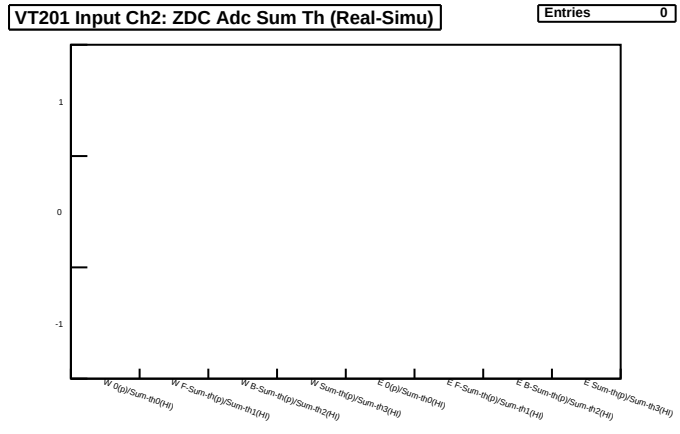

VT201 Input Ch1: EPD Hit Count Th
Entries 202530
94930
94810
6335
6455
East
West

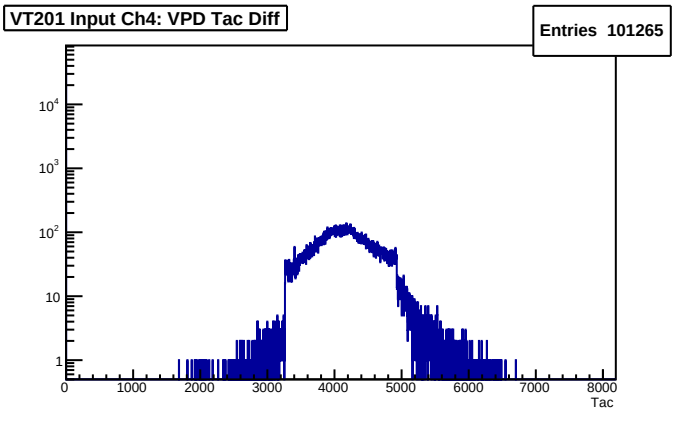

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

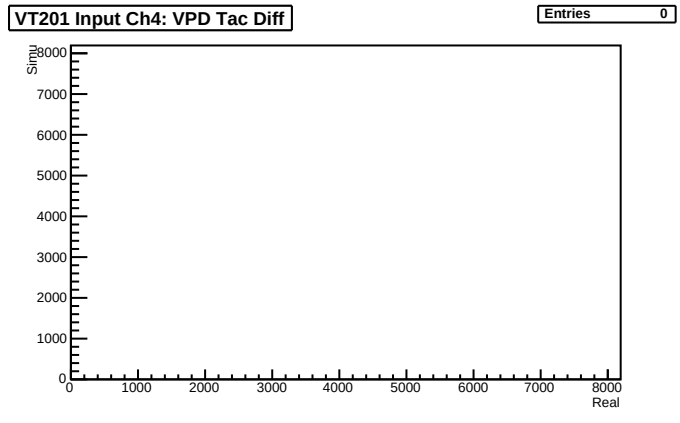

VT201 Input Ch2: ZDC Tac Diff
Entries 101265
Tac

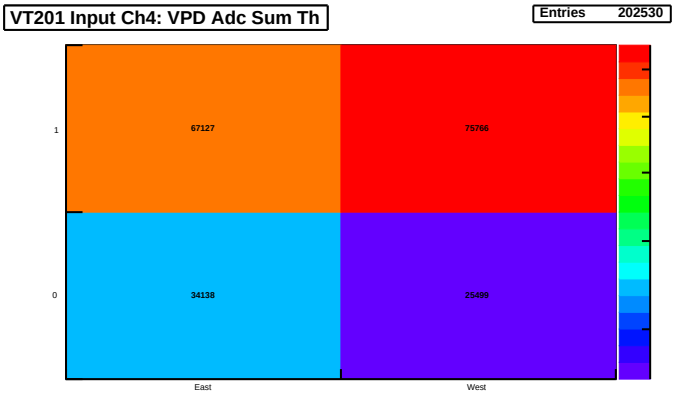

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

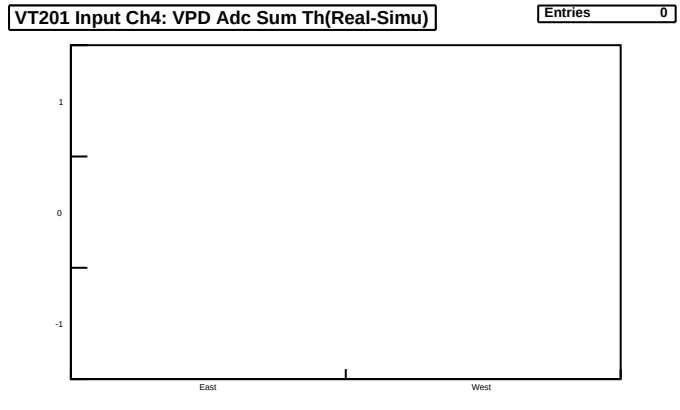

VT201 Input Ch2: ZDC Adc Sum Th
Entries 810120
3091
818
3
2
3108
1251
15
12
98174
100447
101262
101263
98157
100014
101250
101253
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

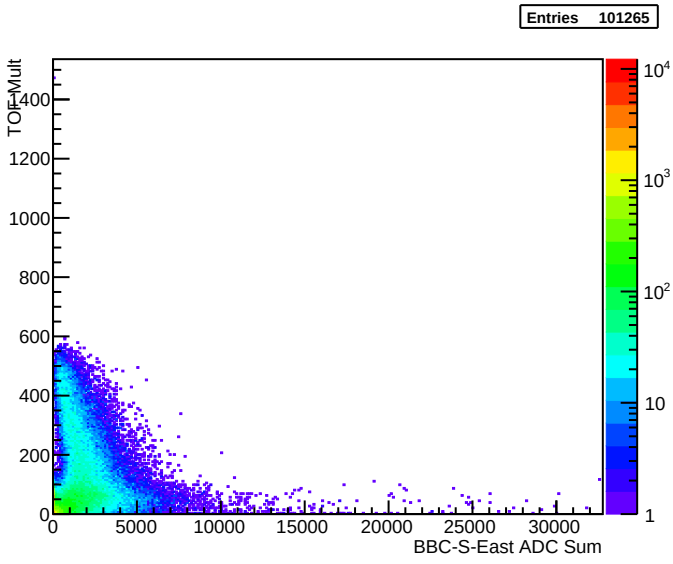

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

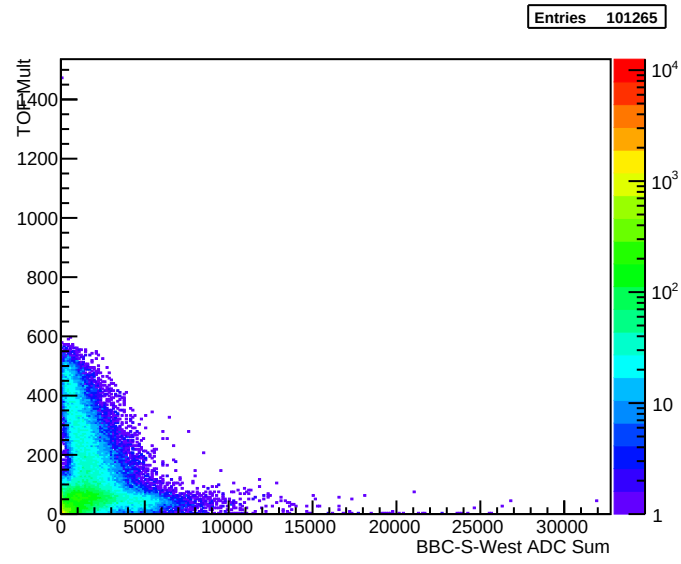

VT201 Input Ch4: VPD Tac Diff
Entries 101265
Tac

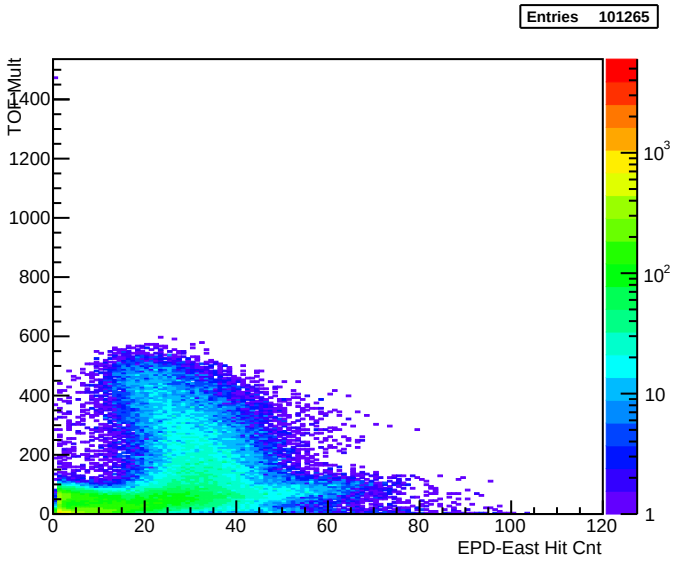

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

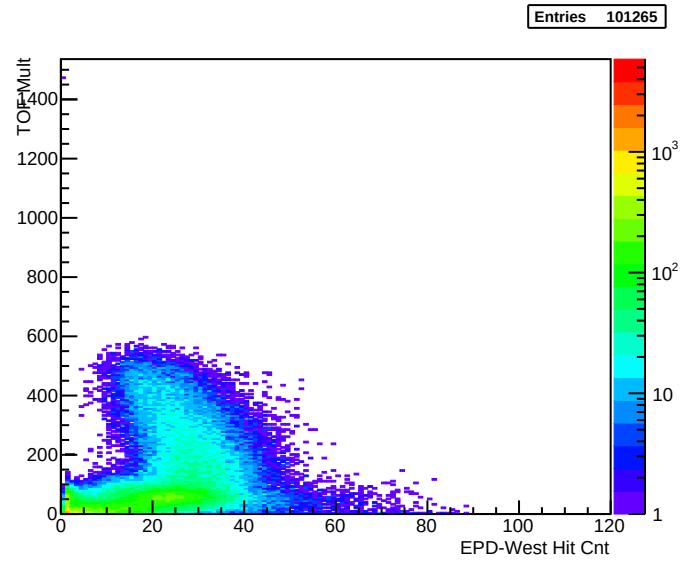

VT201 Input Ch4: VPD Adc Sum Th
Entries 202530
67127
75766
34138
25499
East
West

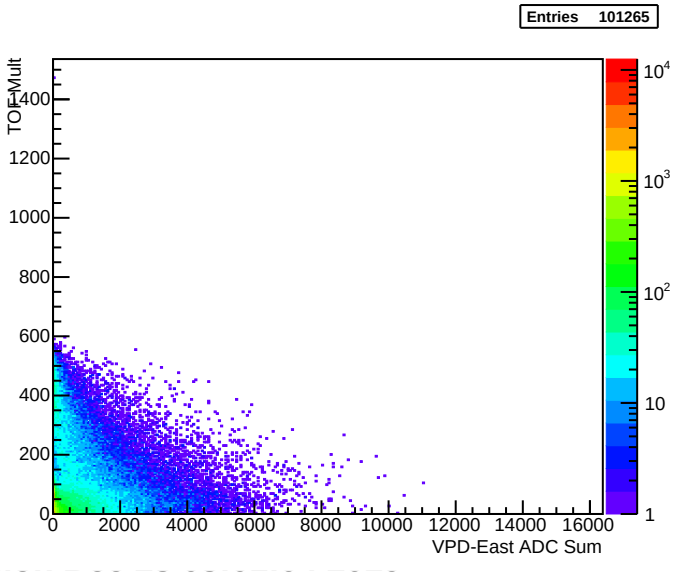

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

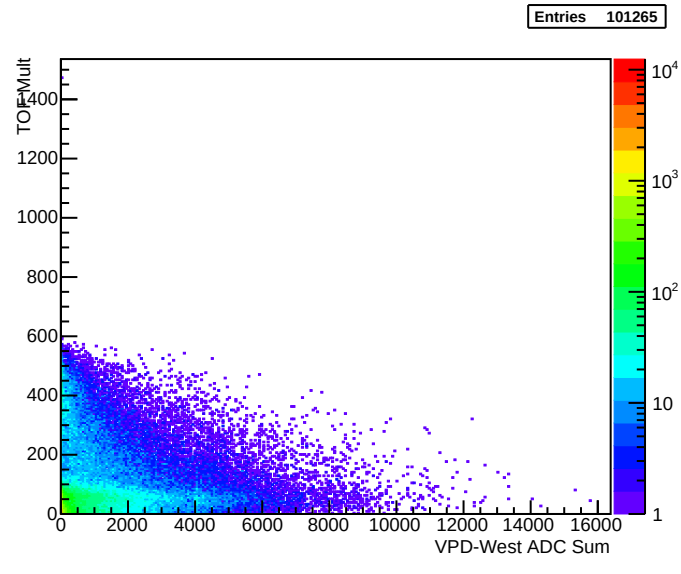

Entries 101265
TOF-Mult
BBC-S-East ADC Sum

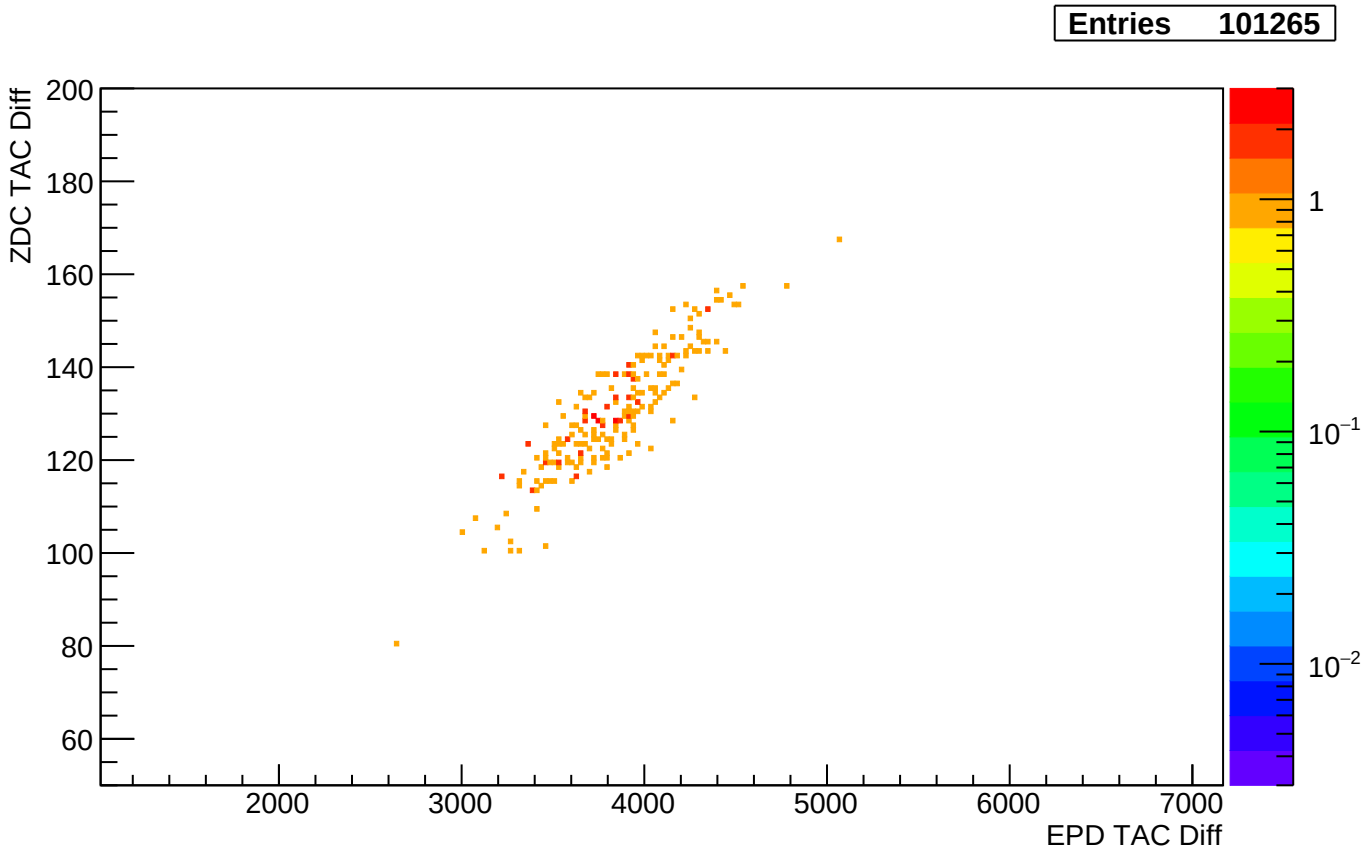

Entries 101265
TOF-Mult
BBC-S-West ADC Sum

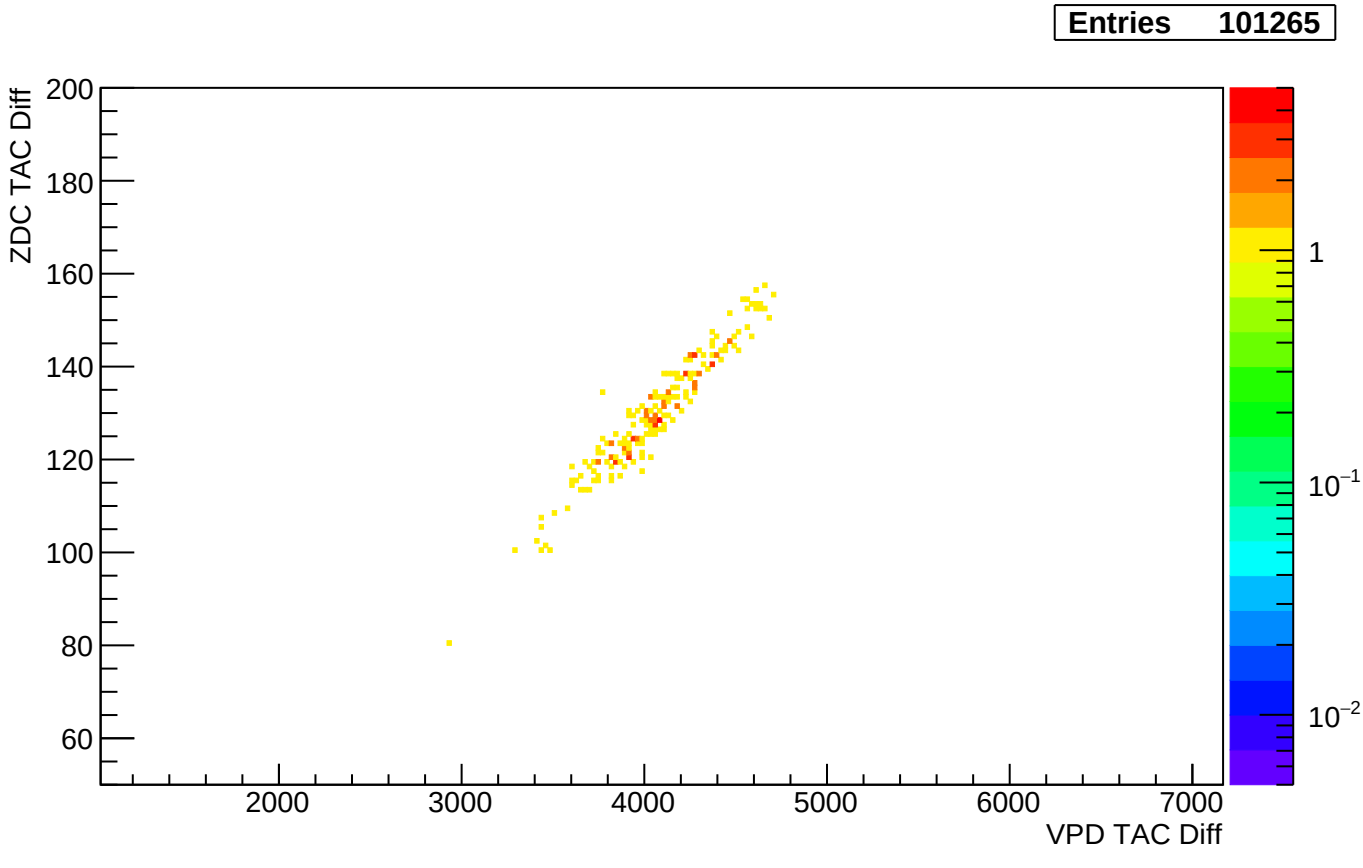

Entries 101265
TOF-Mult
EPD-East Hit Cnt

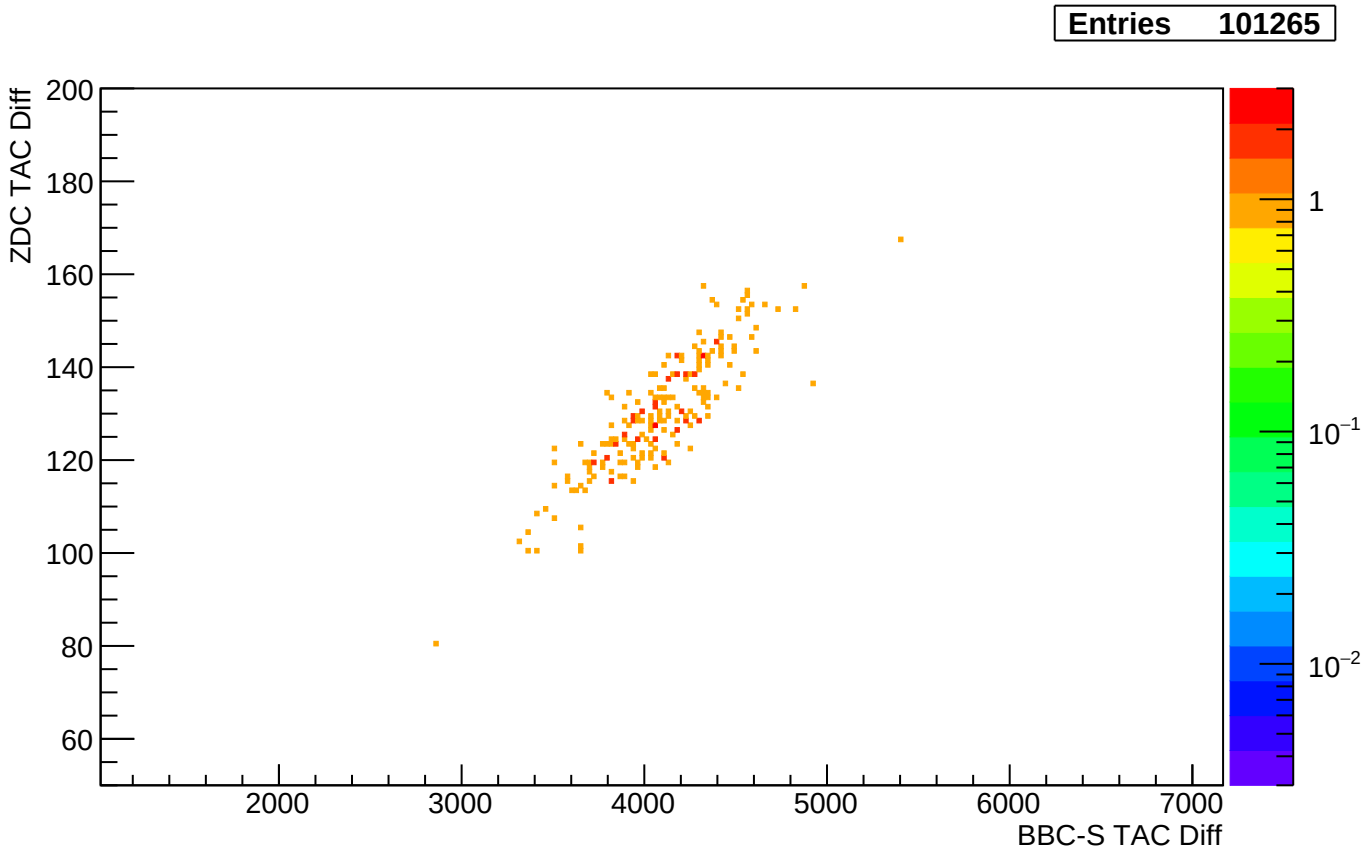

Entries 101265
TOF-Mult
EPD-West Hit Cnt

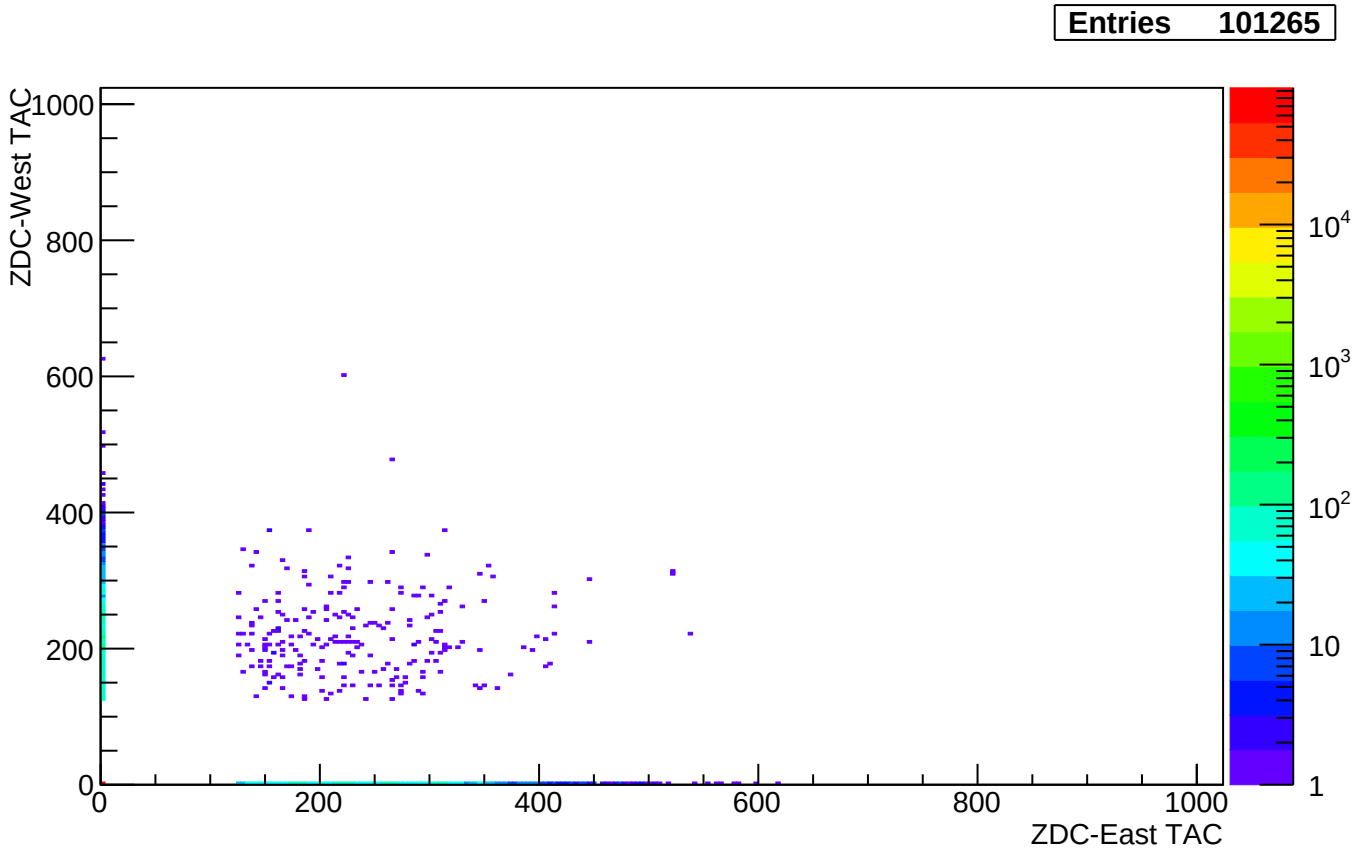

Entries 101265
TOF-Mult
VPD-East ADC Sum

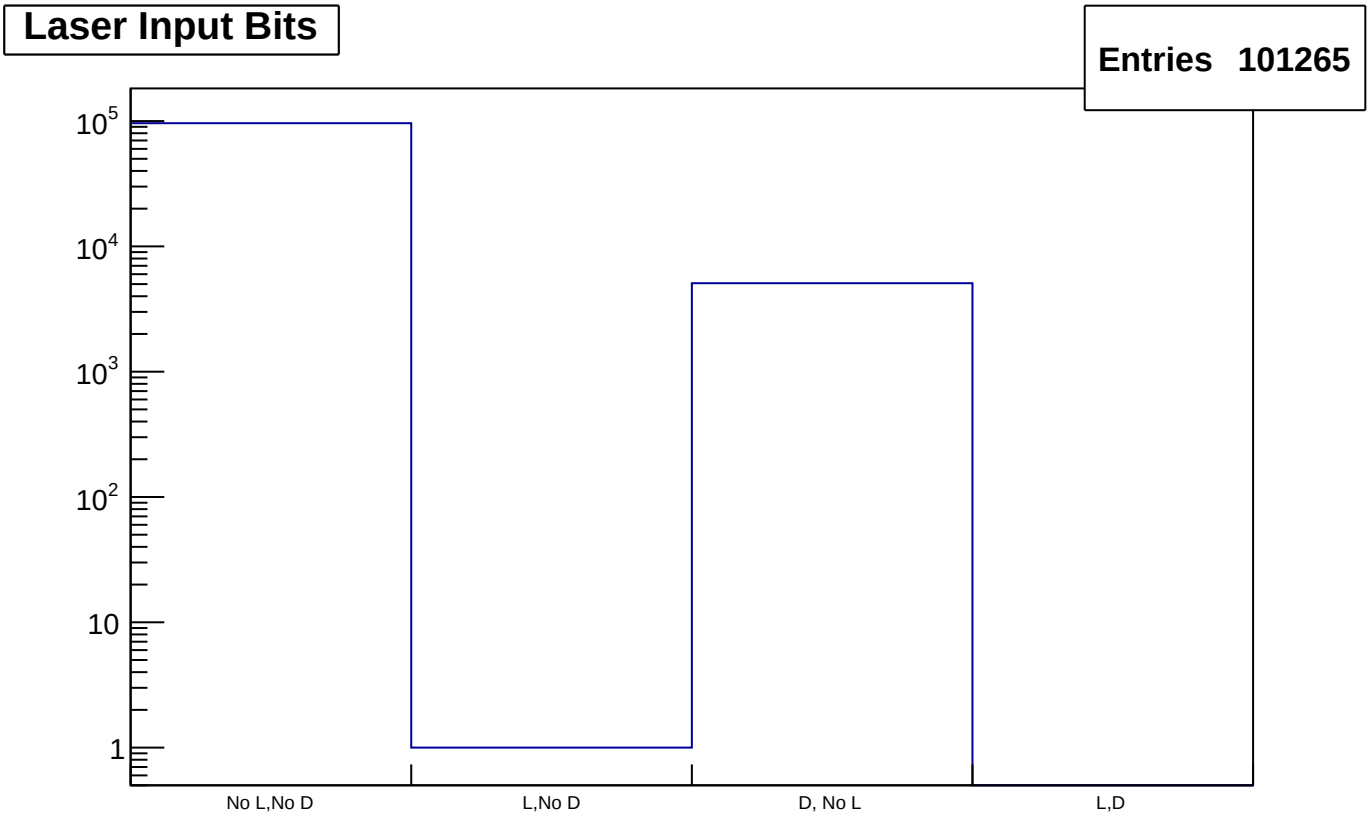

Entries 101265
TOF-Mult
VPD-West ADC Sum

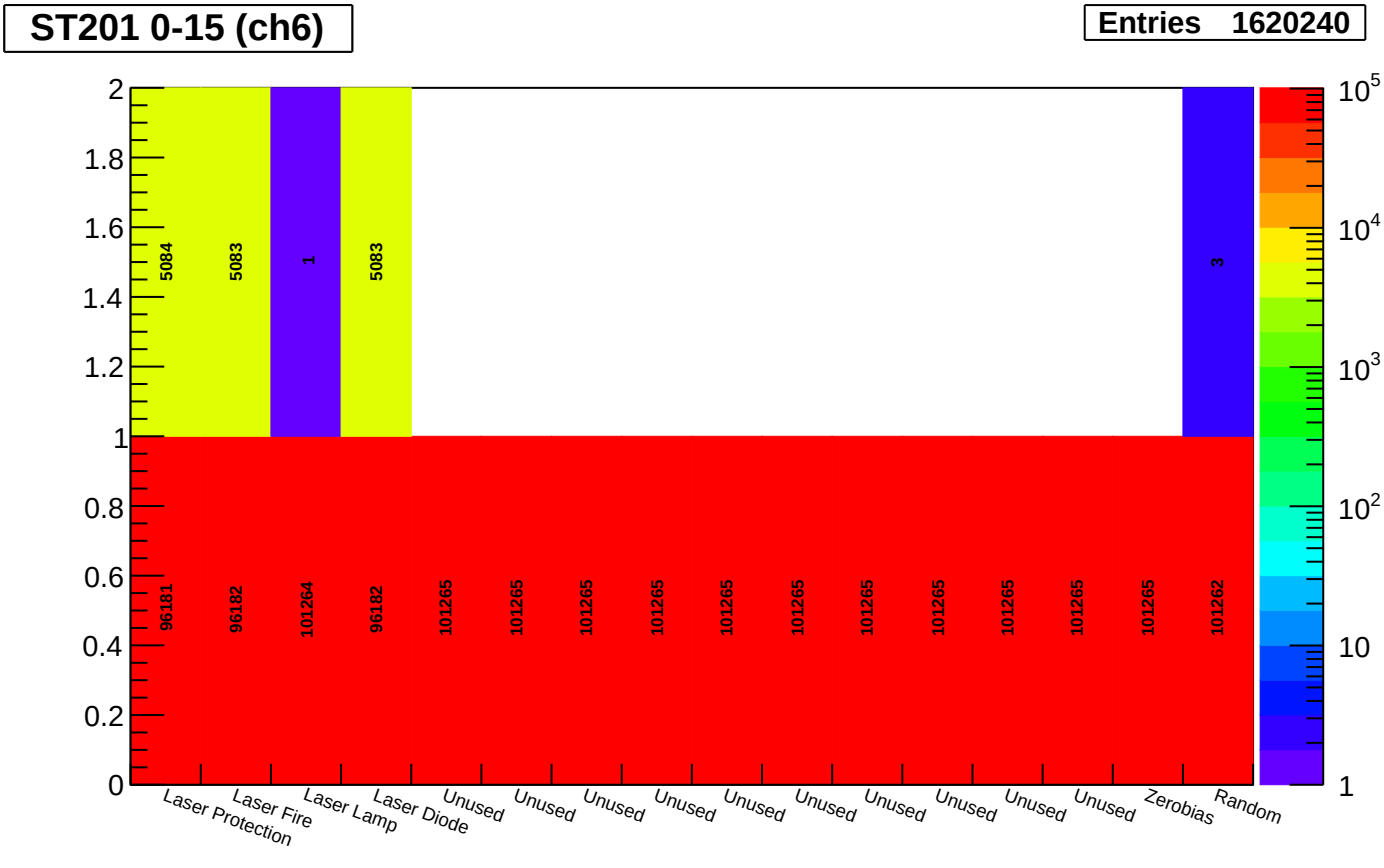

Entries 101265
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

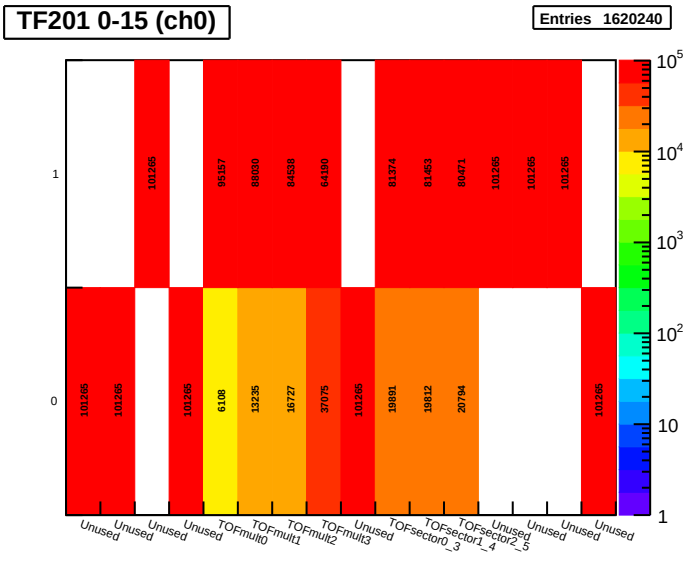

Entries 101265
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

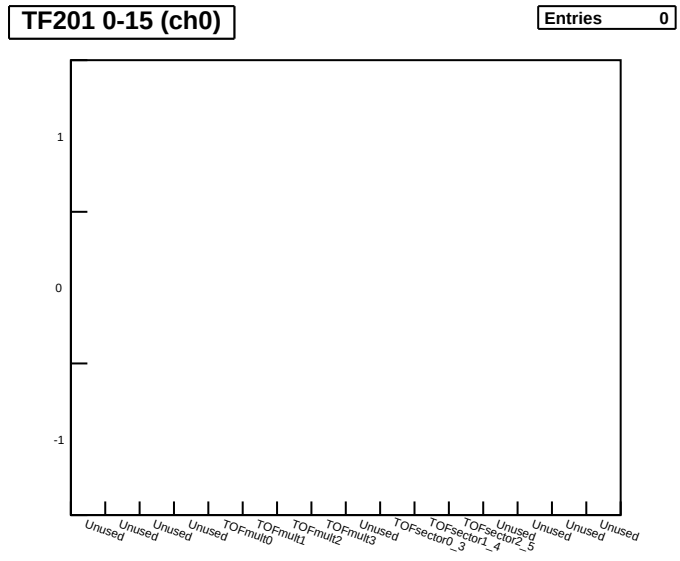

Entries 101265
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

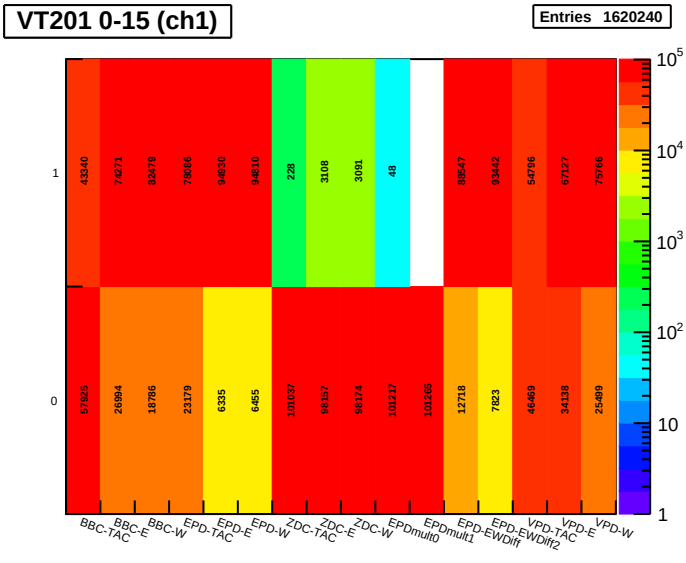

Entries 101265
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^4
10^3
10^2
10
1

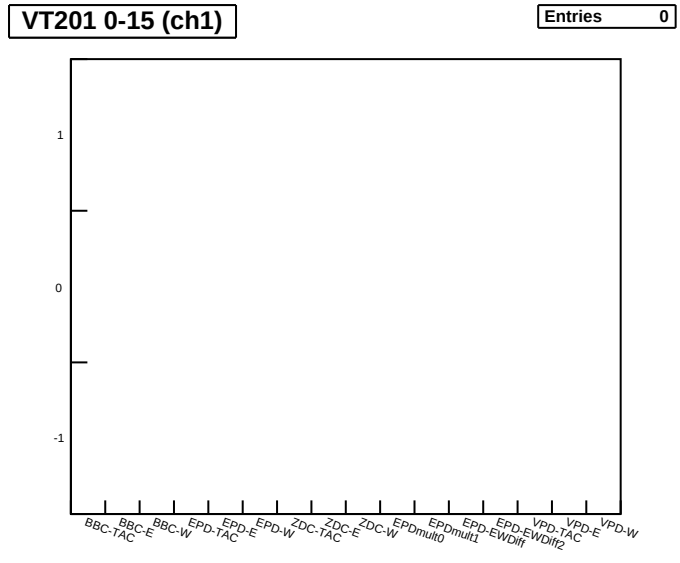

Laser Input Bits
Entries 101265
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

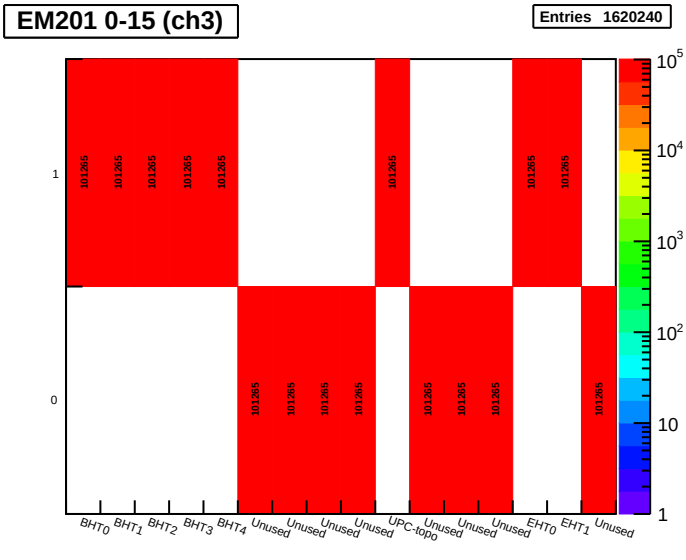

ST201 0-15 (ch6)
Entries 1620240
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5084
5083
1
5083
3
96181
96182
101264
96182
101265
101265
101265
101265
101265
101265
101265
101265
101265
101265
101265
101262
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

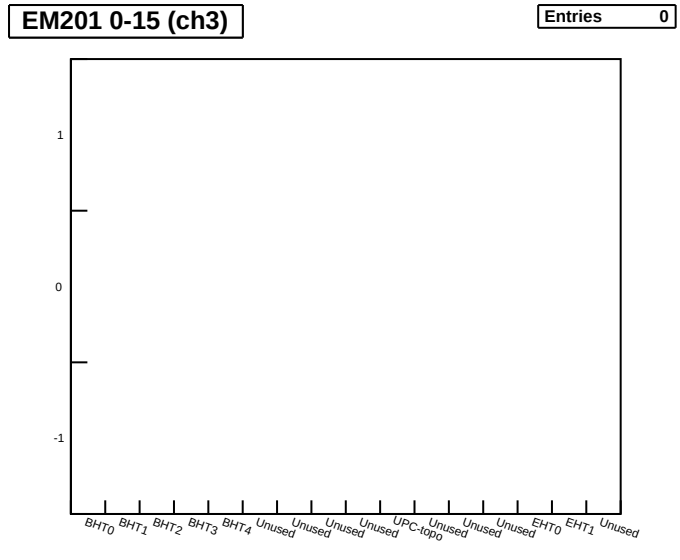

TF201 0-15 (ch0)
Entries 1620240
1
0
101265 95157 88030 84538 64190 81374 81453 80471 101265 101265 101265
101265 101265 101265 6108 13235 16727 37075 101265 19891 19812 20794 101265
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
1 10 10^2 10^3 10^4 10^5


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 1620240
1
0
43340 74271 82479 78086 94930 94810 228 3108 3091 48 86547 93442 54796 67127 75766
57925 26994 18786 23179 6335 6455 101037 98157 98174 101217 101265 12718 7823 46469 34138 25499
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
1 10 10^2 10^3 10^4 10^5


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 1620240
1
0
101265 101265 101265 101265 101265 101265 101265 101265
101265 101265 101265 101265 101265 101265 101265 101265
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
1 10 10^2 10^3 10^4 10^5


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