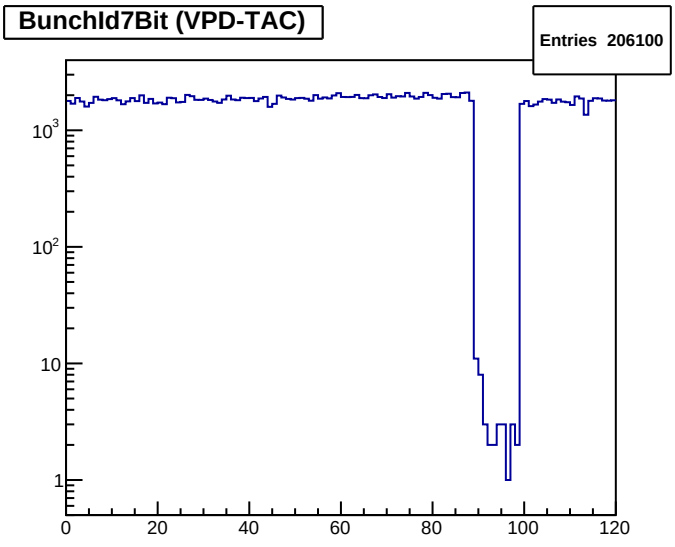
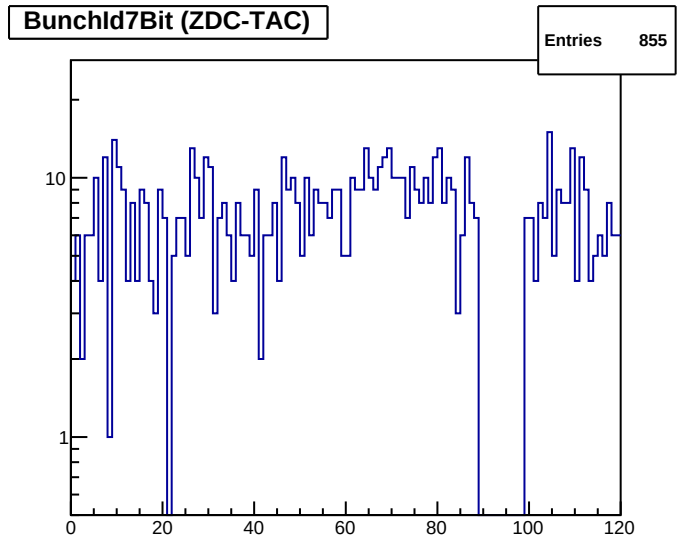
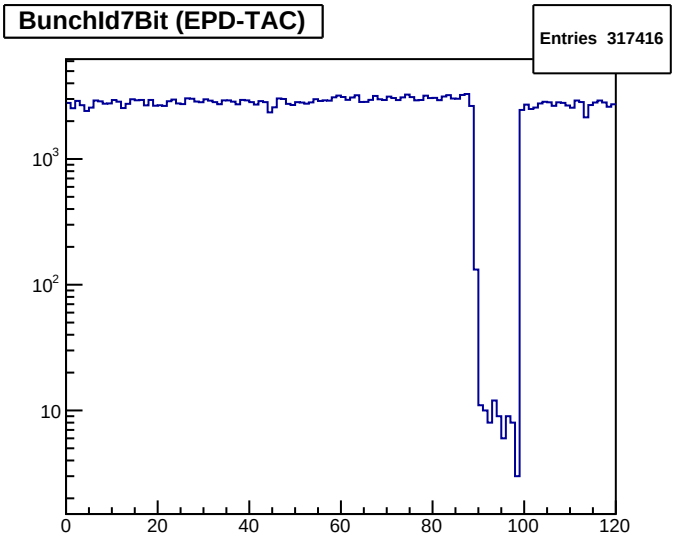
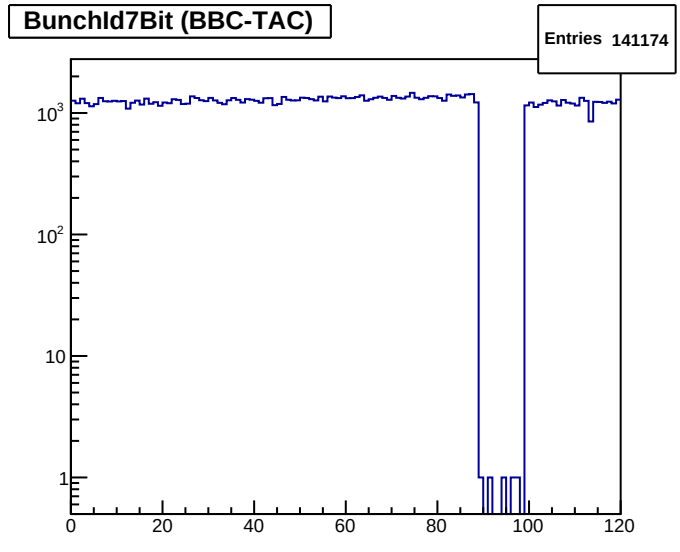
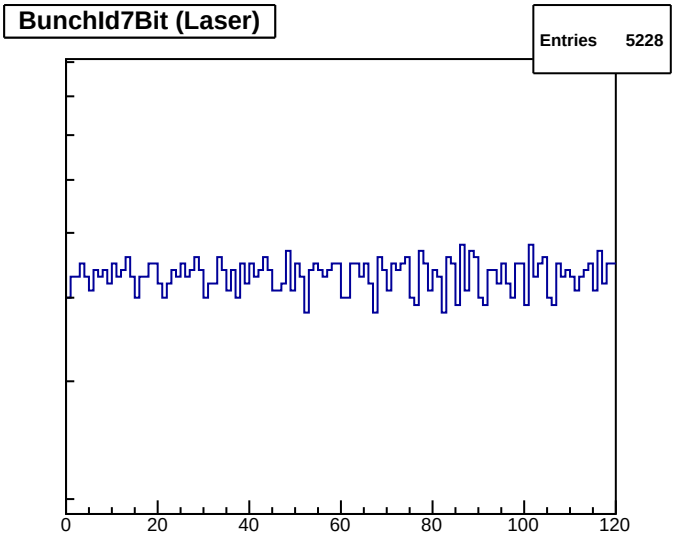
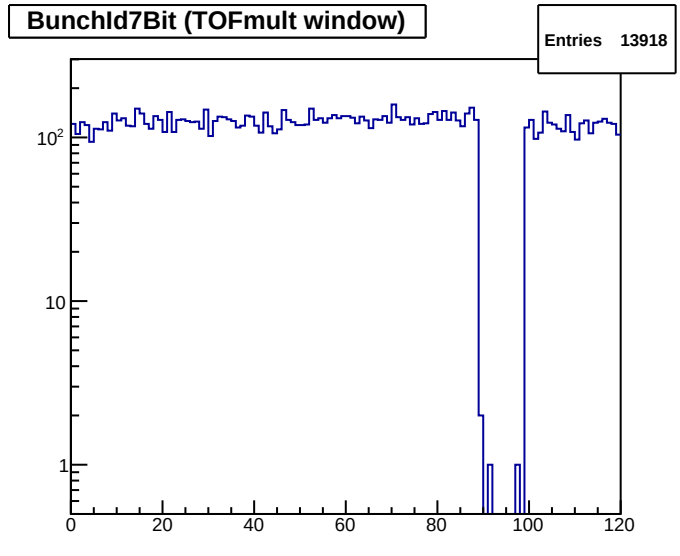

BunchId7Bit (VPD-TAC)
Entries 206100
10^3
10^2
10
1
0
20
40
60
80
100
120

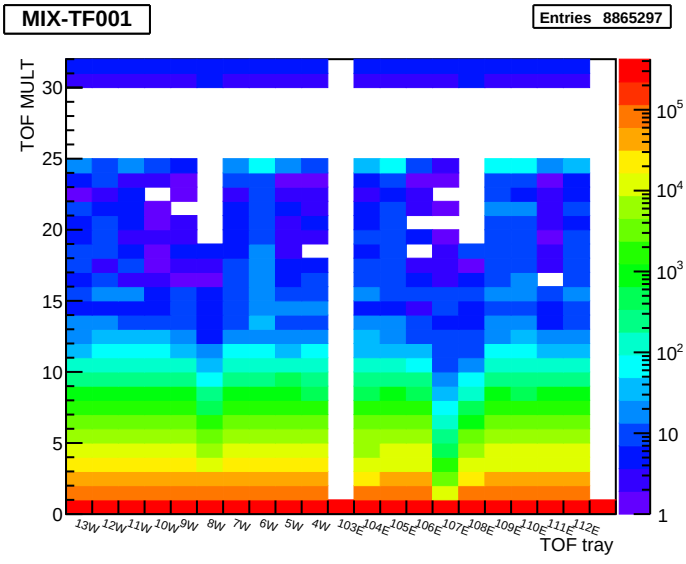

BunchId7Bit (ZDC-TAC)
Entries 855
10
1
0
20
40
60
80
100
120

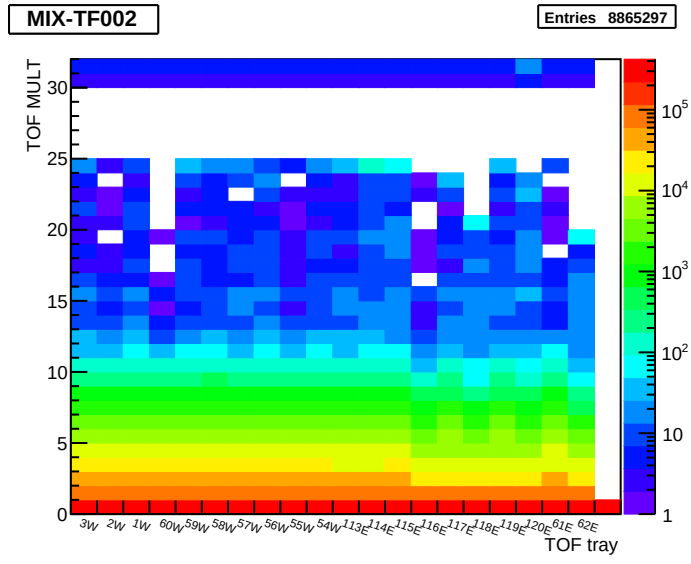

BunchId7Bit (EPD-TAC)
Entries 317416
10^3
10^2
10
0
20
40
60
80
100
120

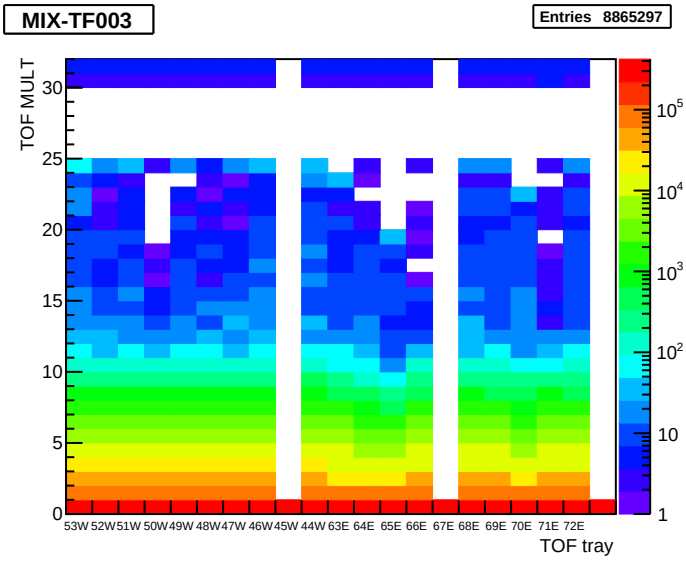

BunchId7Bit (BBC-TAC)
Entries 141174
10^3
10^2
10
1
0
20
40
60
80
100
120

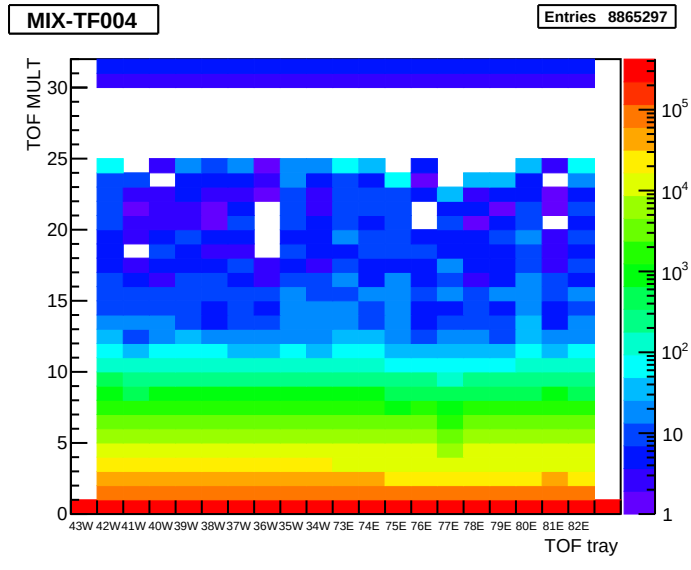

BunchId7Bit (Laser)
Entries 5228
0
20
40
60
80
100
120

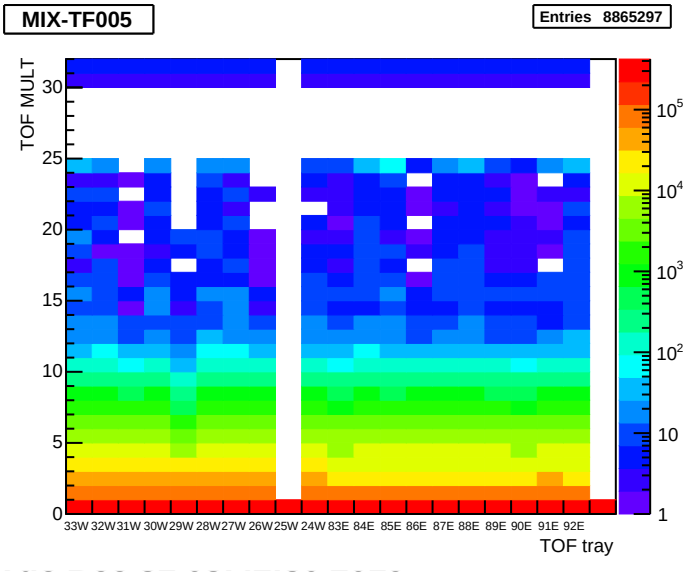

BunchId7Bit (TOFmult window)
Entries 13918
10^2
10
1
0
20
40
60
80
100
120

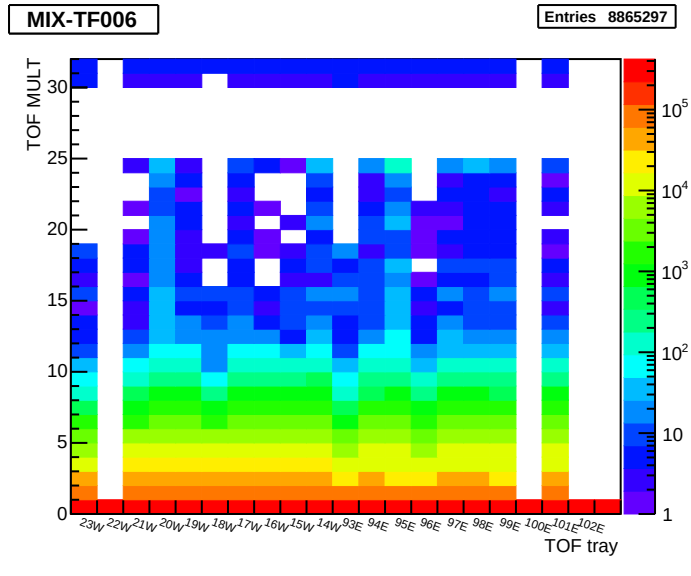

MIX-TF001
Entries 8865297
TOF MULT
TOF tray

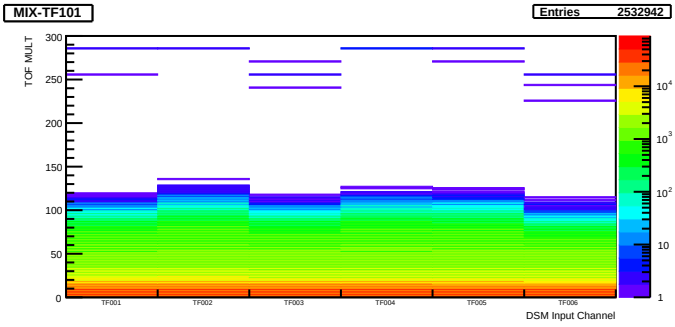

MIX-TF002
Entries 8865297
TOF MULT
TOF tray

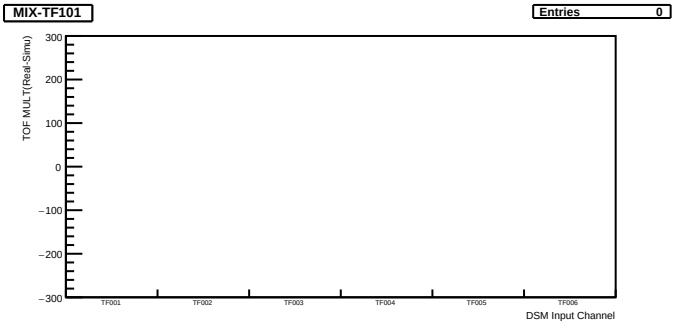

MIX-TF003
Entries 8865297
TOF MULT
TOF tray

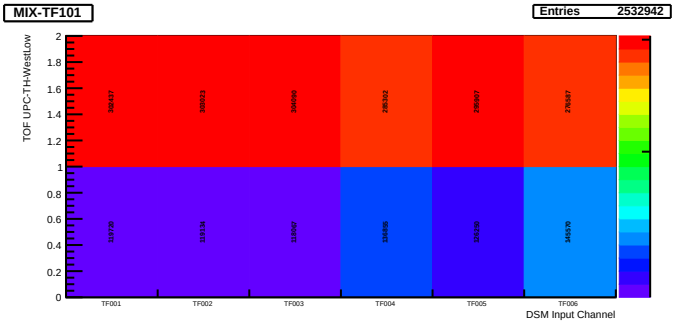

MIX-TF004
Entries 8865297
TOF MULT
TOF tray

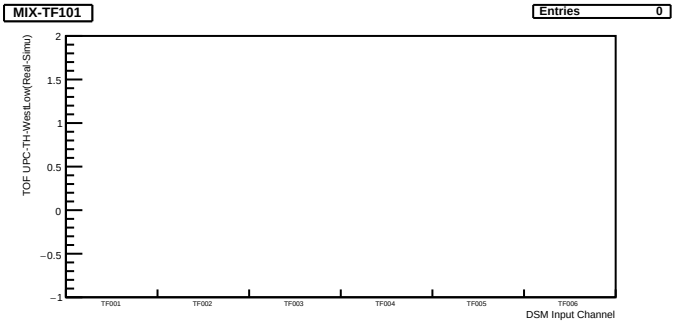

MIX-TF005
Entries 8865297
TOF MULT
TOF tray

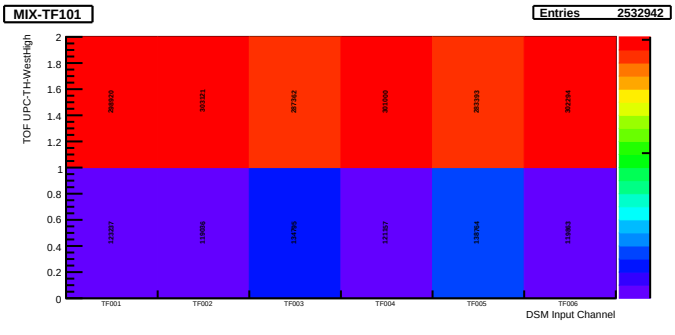

MIX-TF006
Entries 8865297
TOF MULT
TOF tray

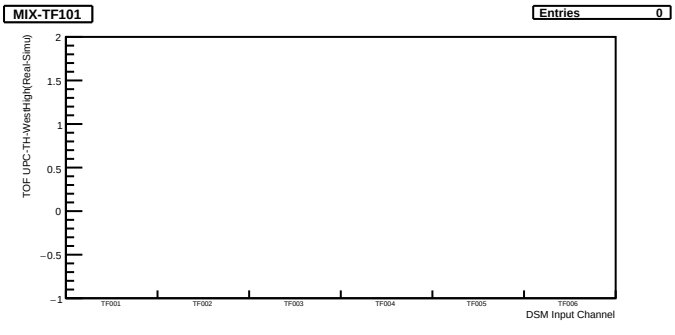

MIX-TF101
Entries 2532942
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

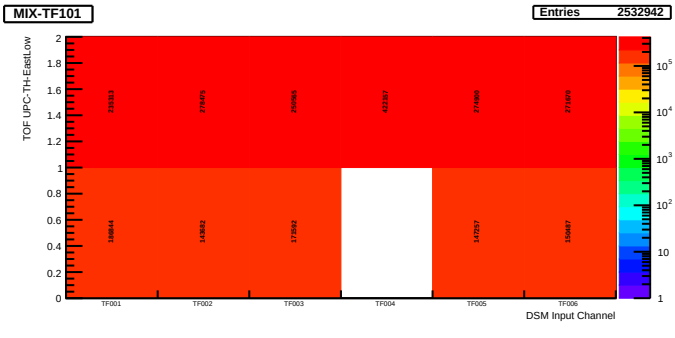

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

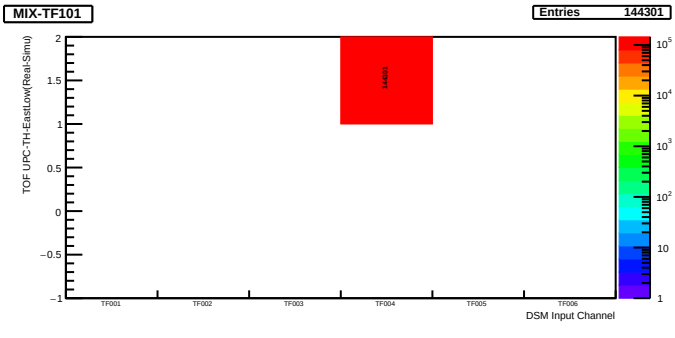

MIX-TF101
Entries 2532942
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

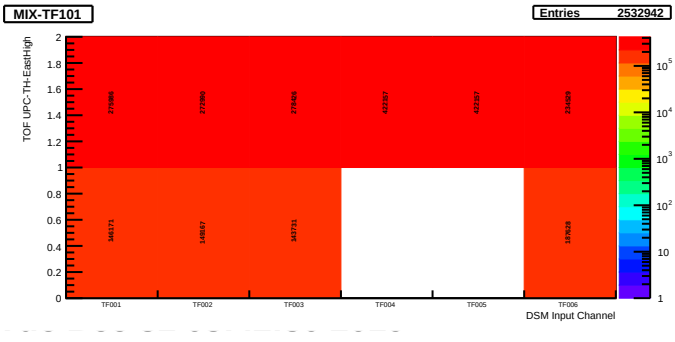

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

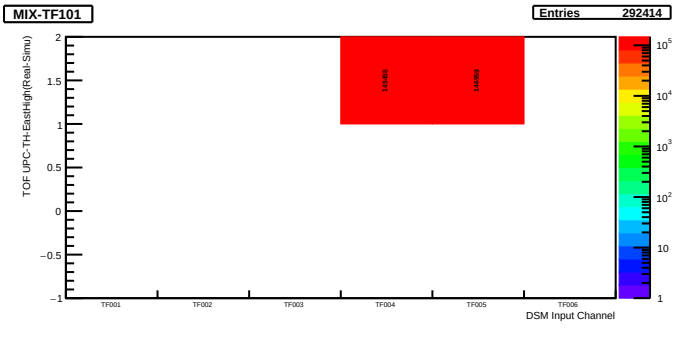

MIX-TF101
Entries 2532942
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

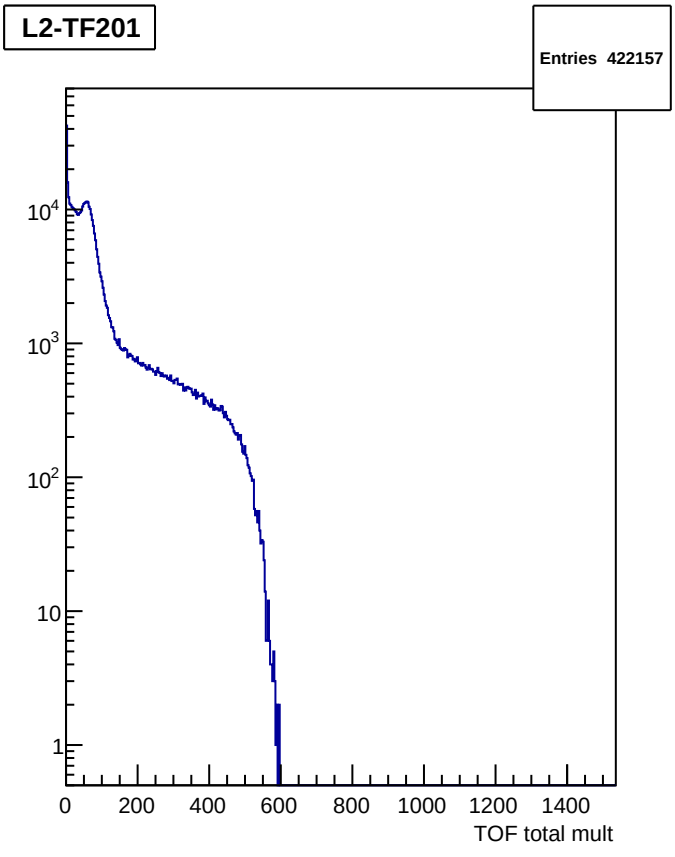

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

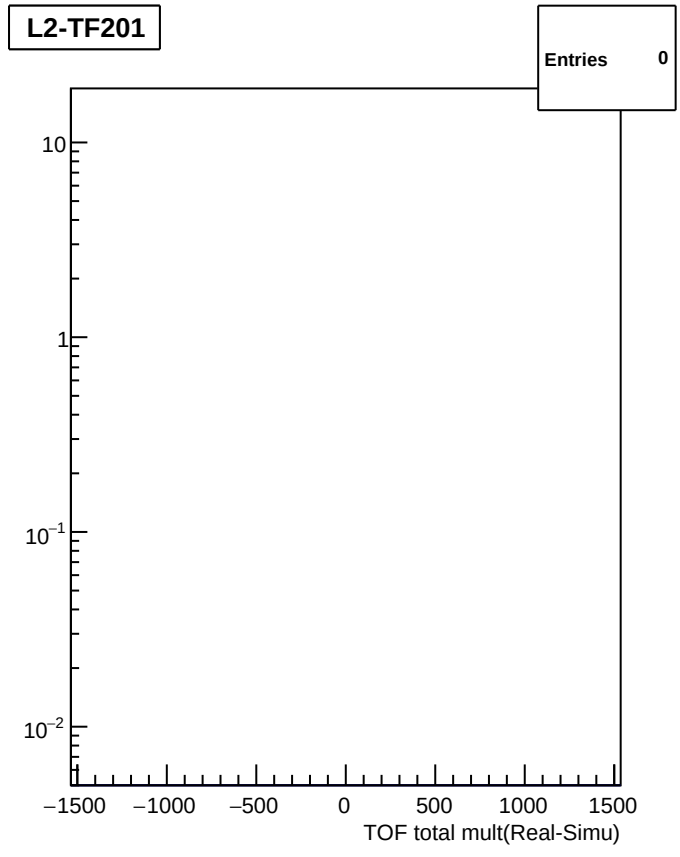

MIX-TF101
Entries 2532942
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

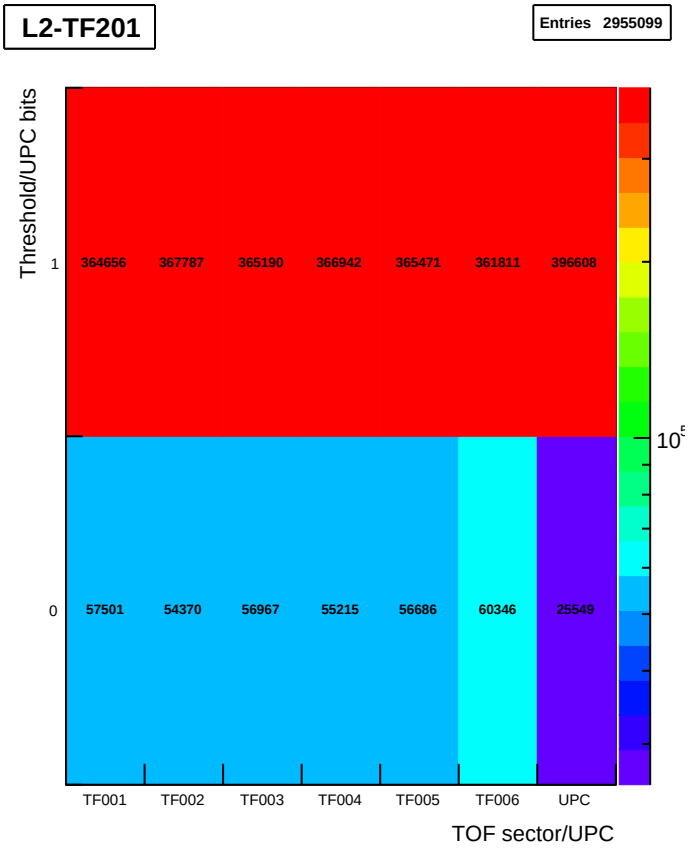

MIX-TF101
Entries 144301
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

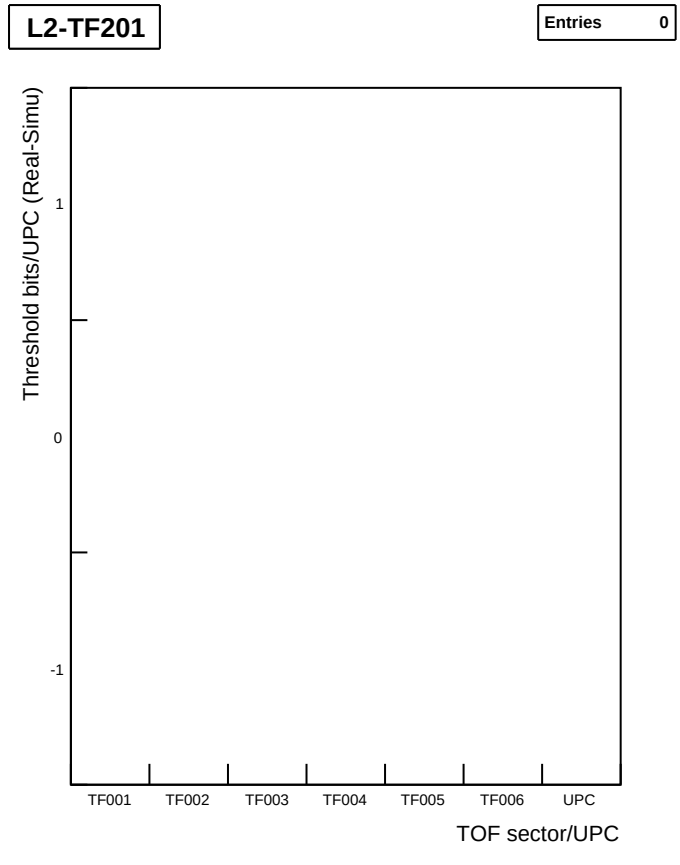

MIX-TF101
Entries 2532942
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

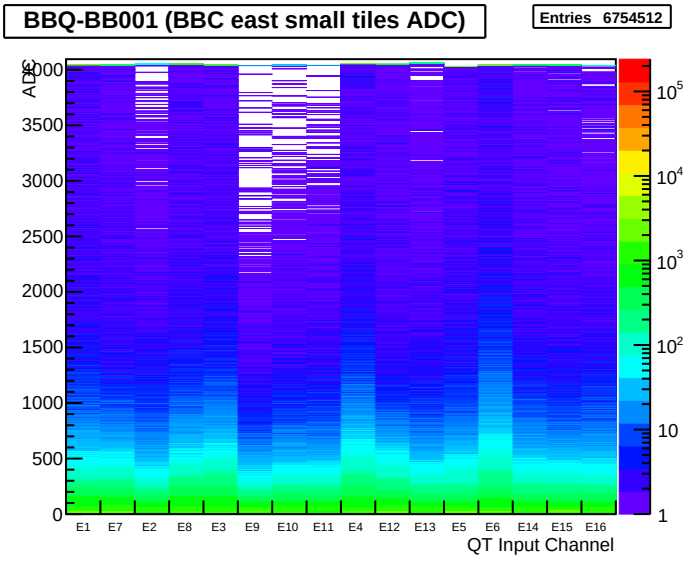

MIX-TF101
Entries 292414
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

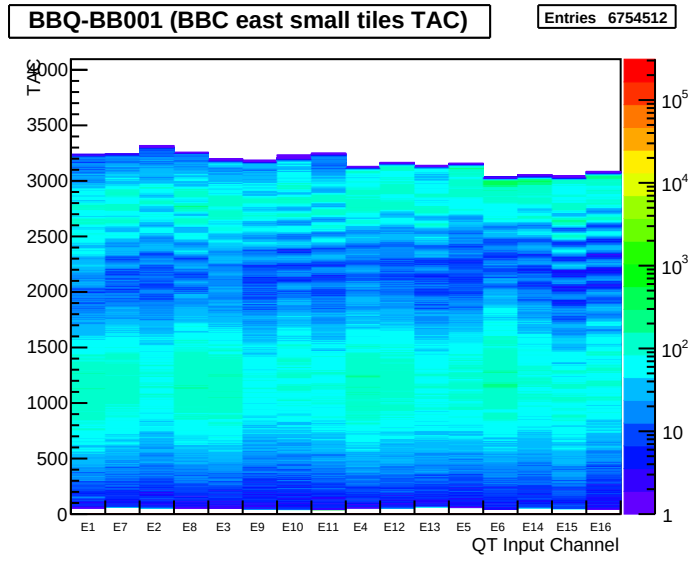

L2-TF201
Entries 422157
TOF total mult

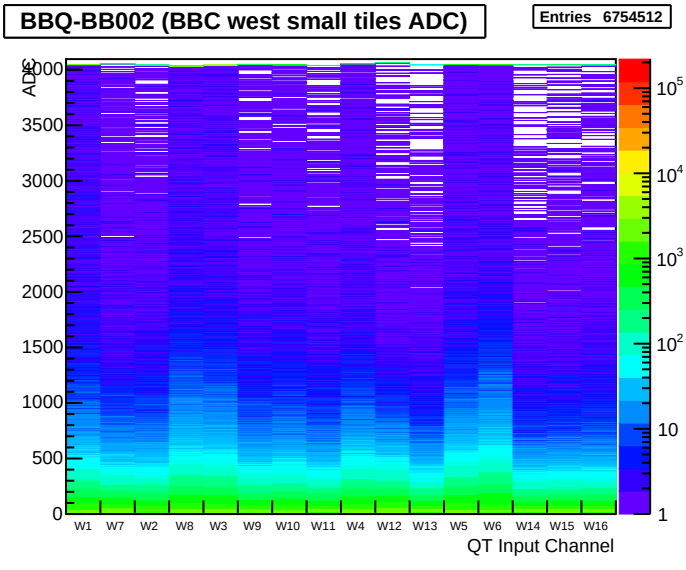

L2-TF201
Entries 0
TOF total mult(Real-Simu)

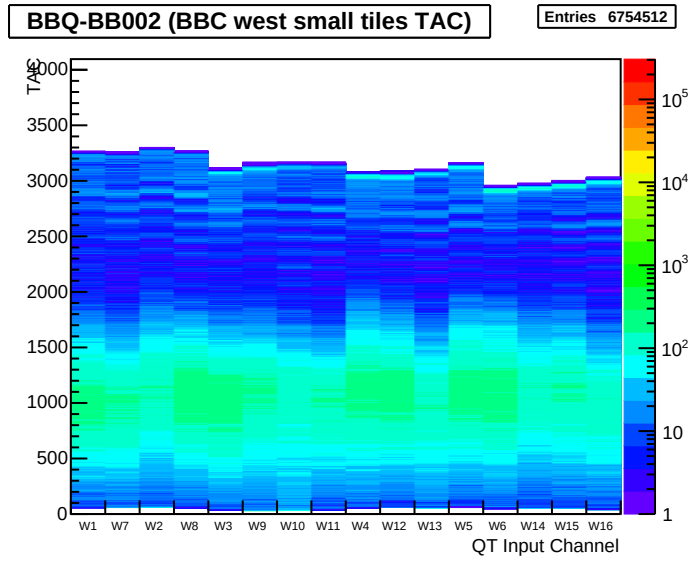

L2-TF201
Entries 2955099
Threshold/UPC bits
364656
367787
365190
366942
365471
361811
396608
57501
54370
56967
55215
56686
60346
25549
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

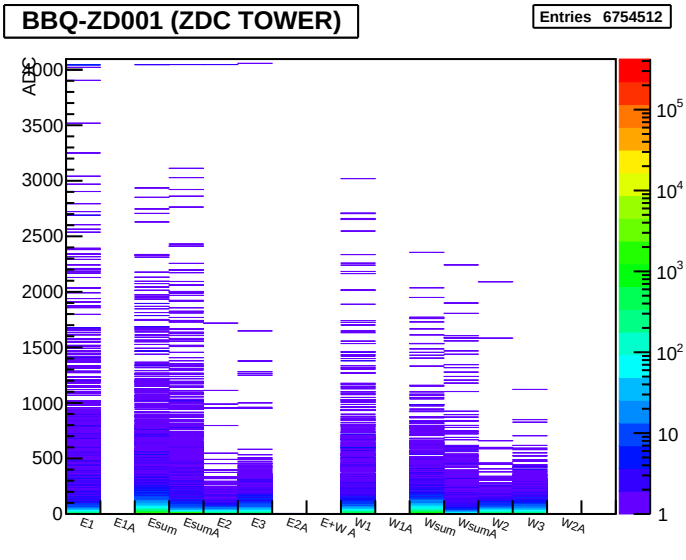

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

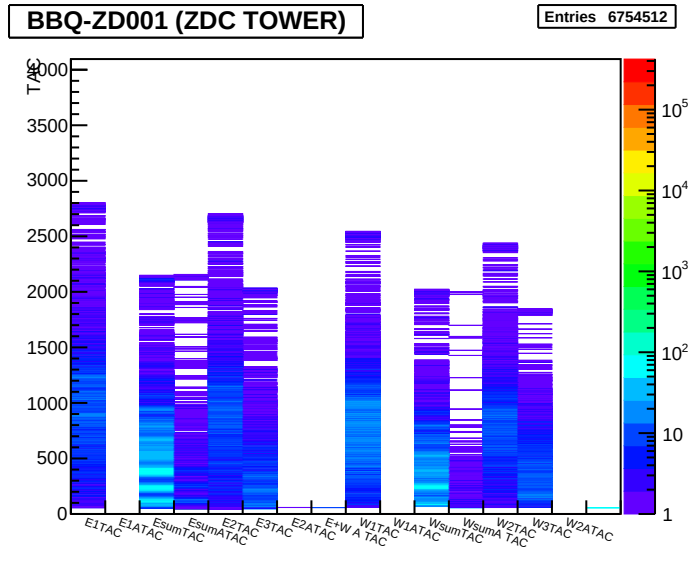

BBQ-BB001 (BBC east small tiles ADC)
Entries 6754512
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

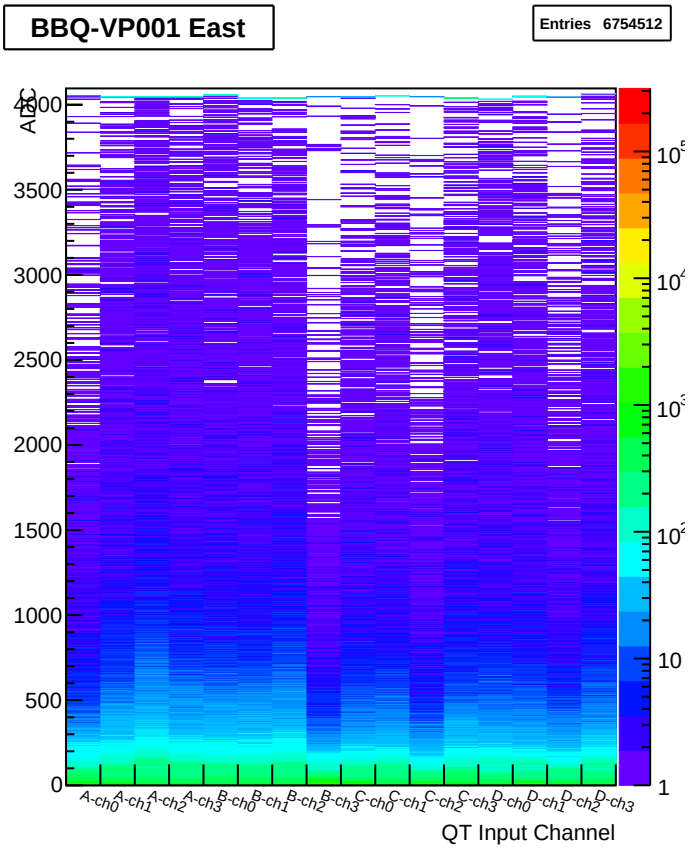

BBQ-BB001 (BBC east small tiles TAC)
Entries 6754512
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

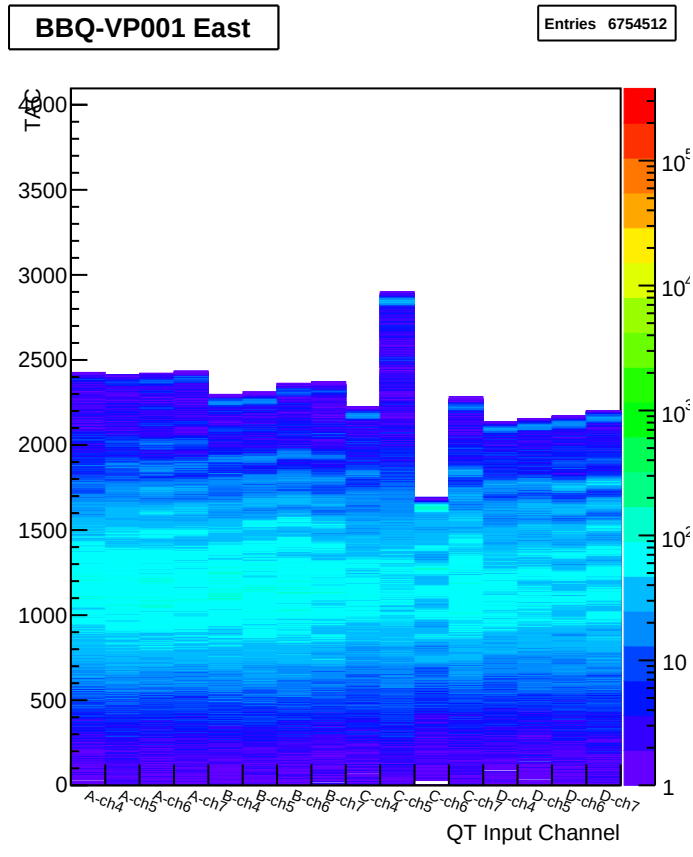

BBQ-BB002 (BBC west small tiles ADC)
Entries 6754512
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

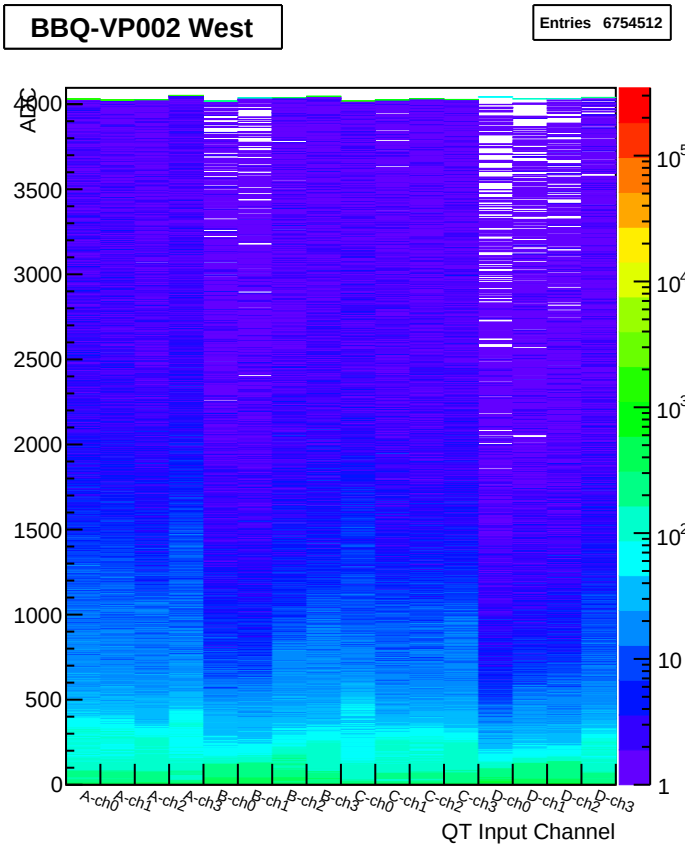

BBQ-BB002 (BBC west small tiles TAC)
Entries 6754512
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

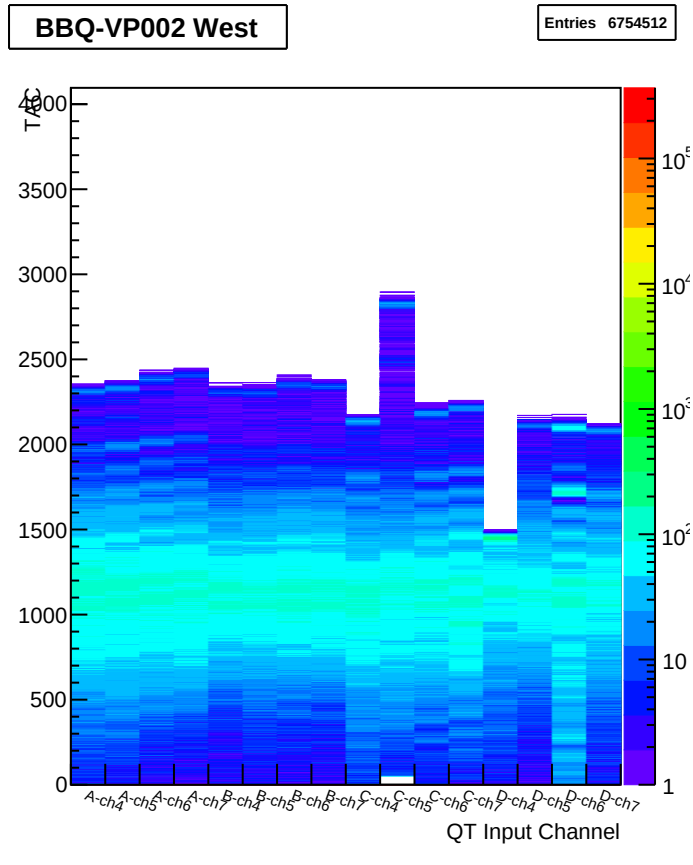

BBQ-ZD001 (ZDC TOWER)
Entries 6754512
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

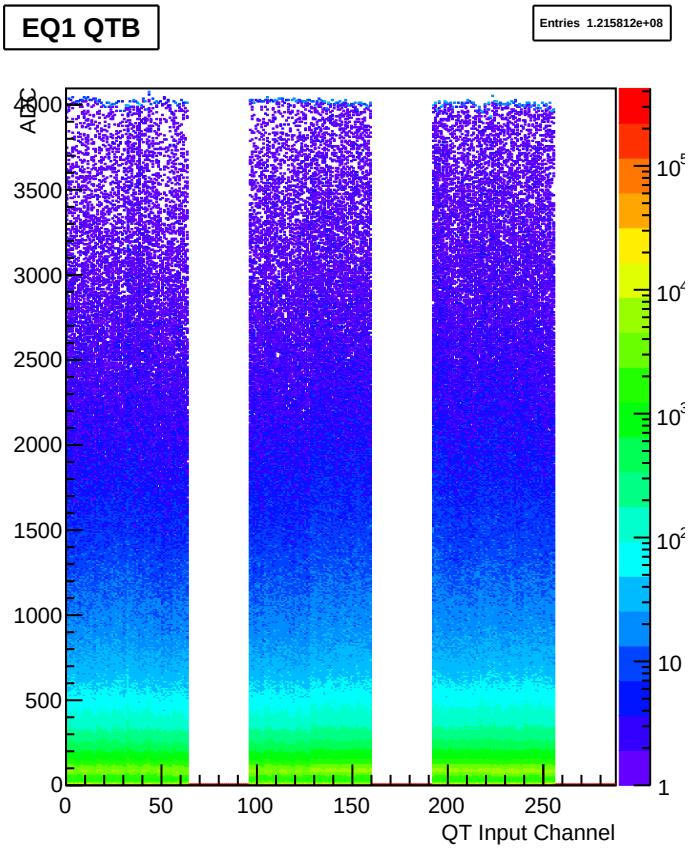

BBQ-ZD001 (ZDC TOWER)
Entries 6754512
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

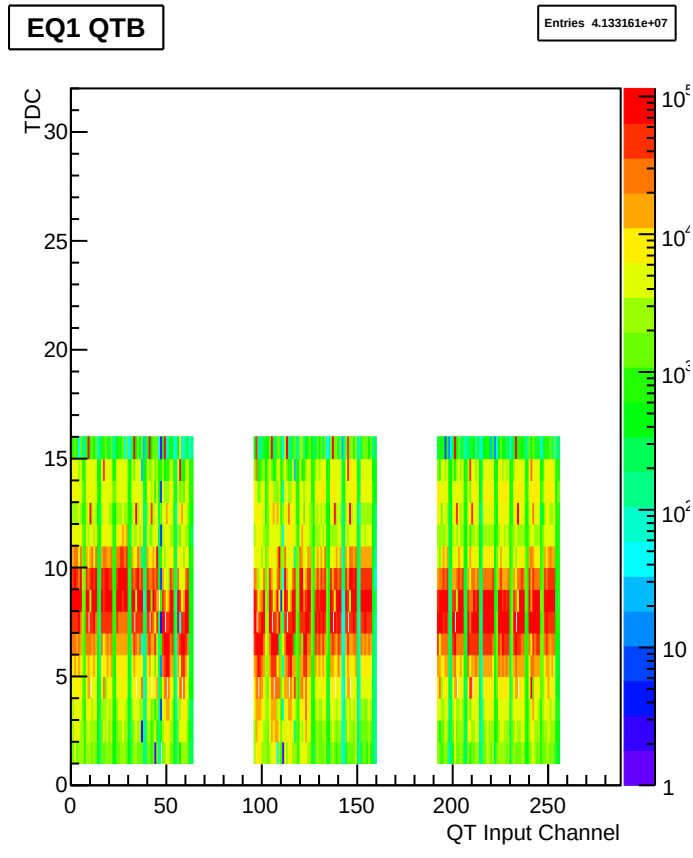

BBQ-VP001 East
Entries 6754512
ADC
QT Input Channel

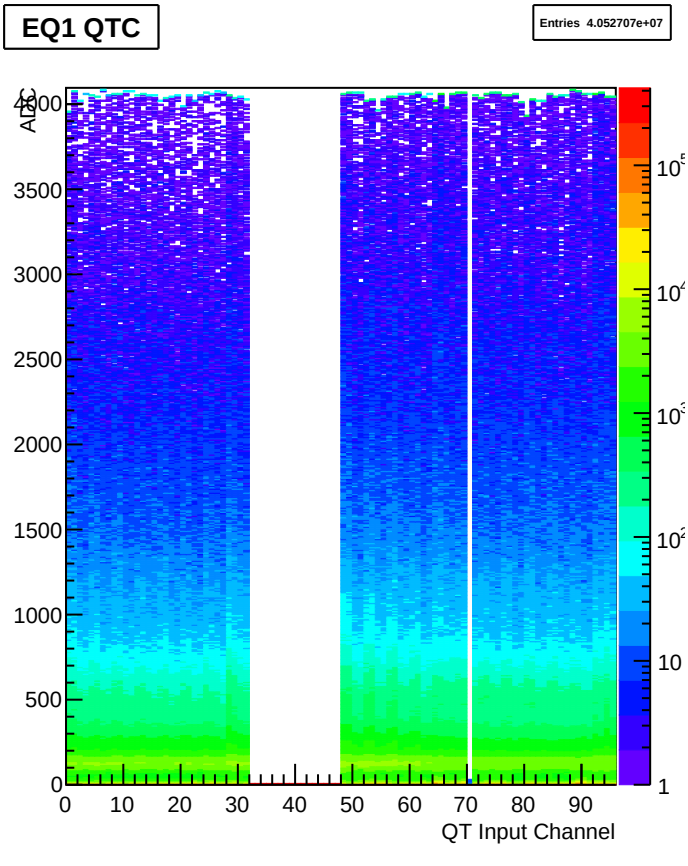

BBQ-VP001 East
Entries 6754512
TADC
QT Input Channel

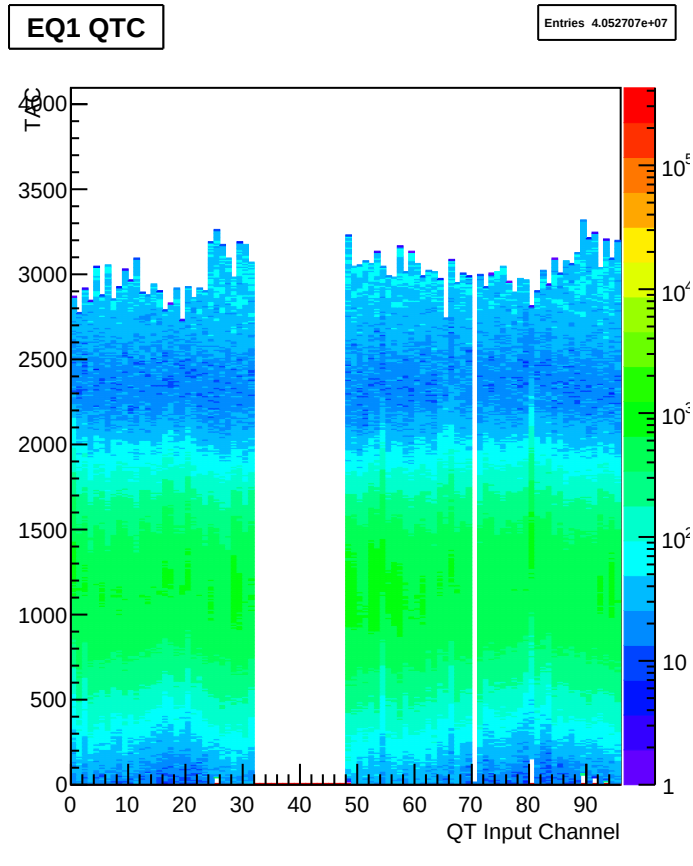

BBQ-VP002 West
Entries 6754512
ADC
QT Input Channel

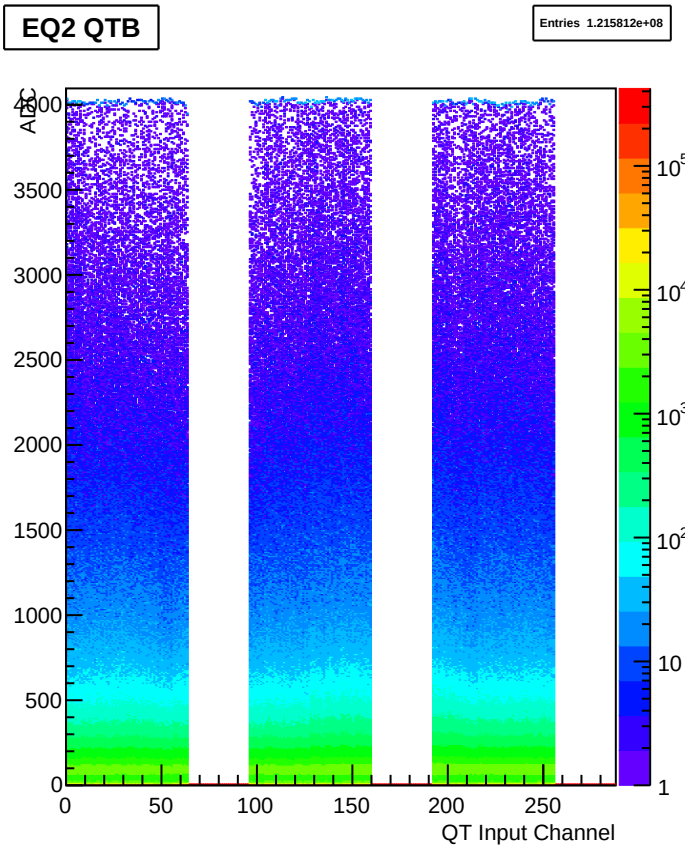

BBQ-VP002 West
Entries 6754512
TADC
QT Input Channel

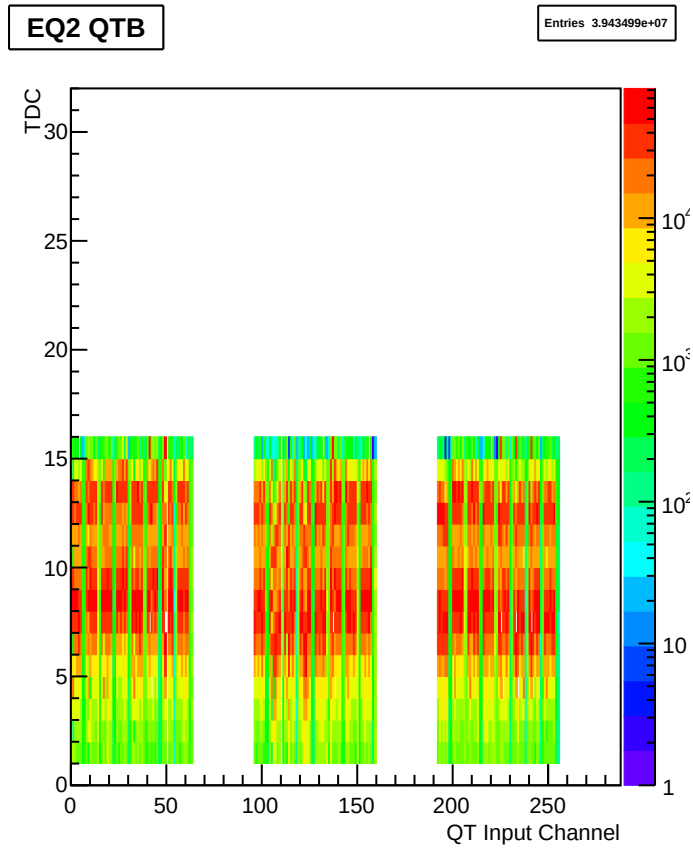

EQ1 QTB
Entries 1.215812e+08
ADC
QT Input Channel

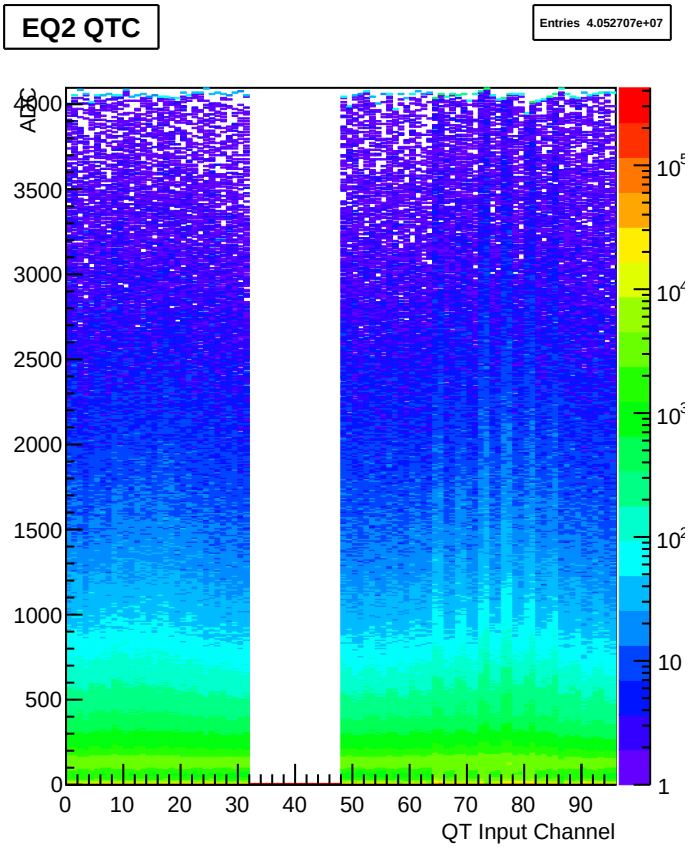

EQ1 QTB
Entries 4.133161e+07
TDC
QT Input Channel

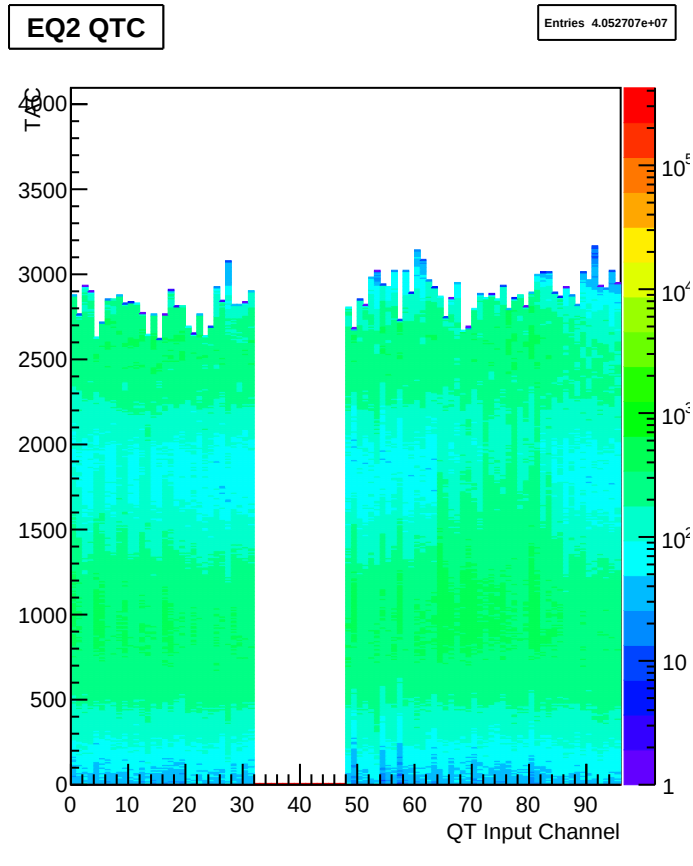

EQ1 QTC
Entries 4.052707e+07
ADC
QT Input Channel

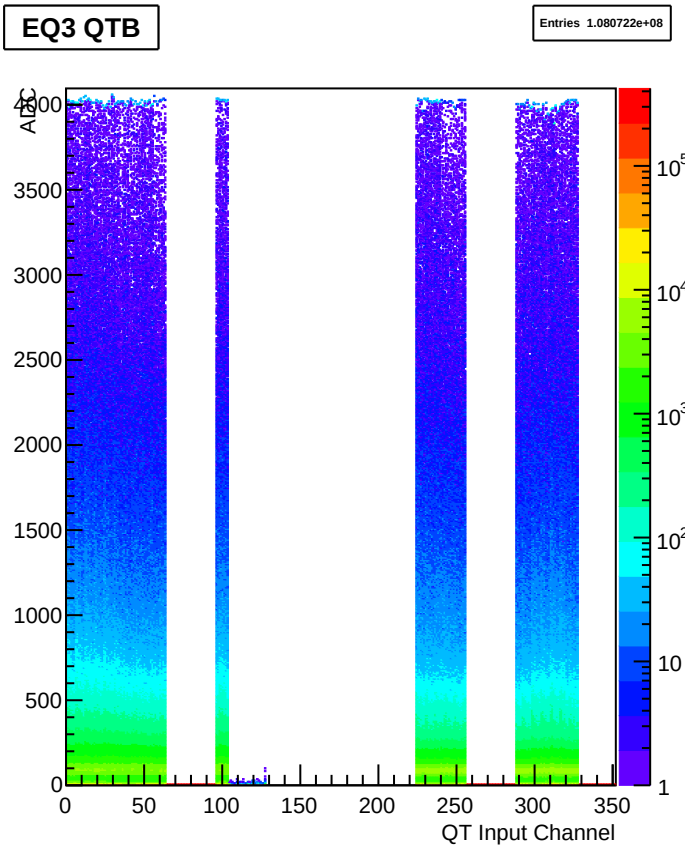

EQ1 QTC
Entries 4.052707e+07
TADC
QT Input Channel

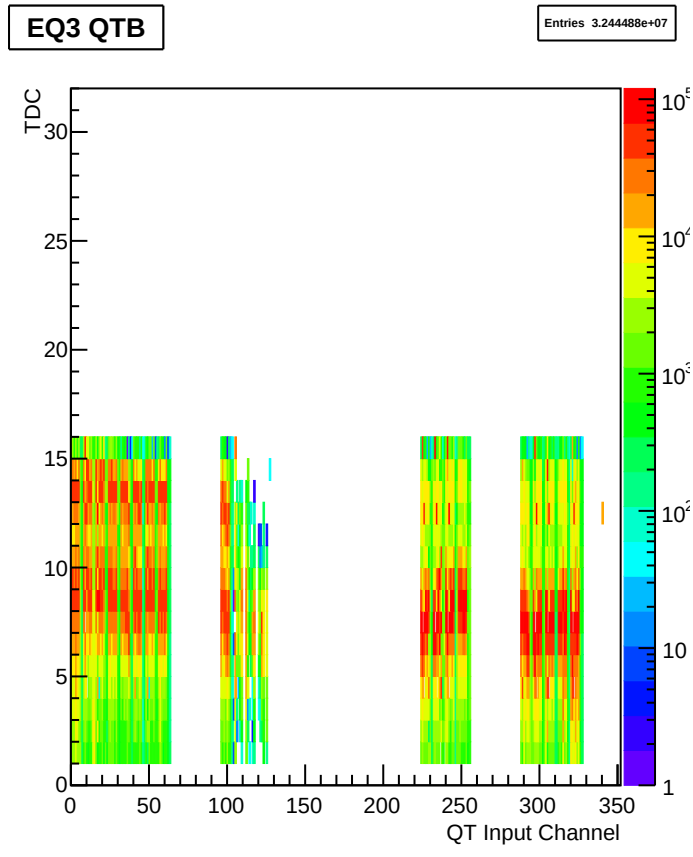

EQ2 QTB
Entries 1.215812e+08
ADC
QT Input Channel

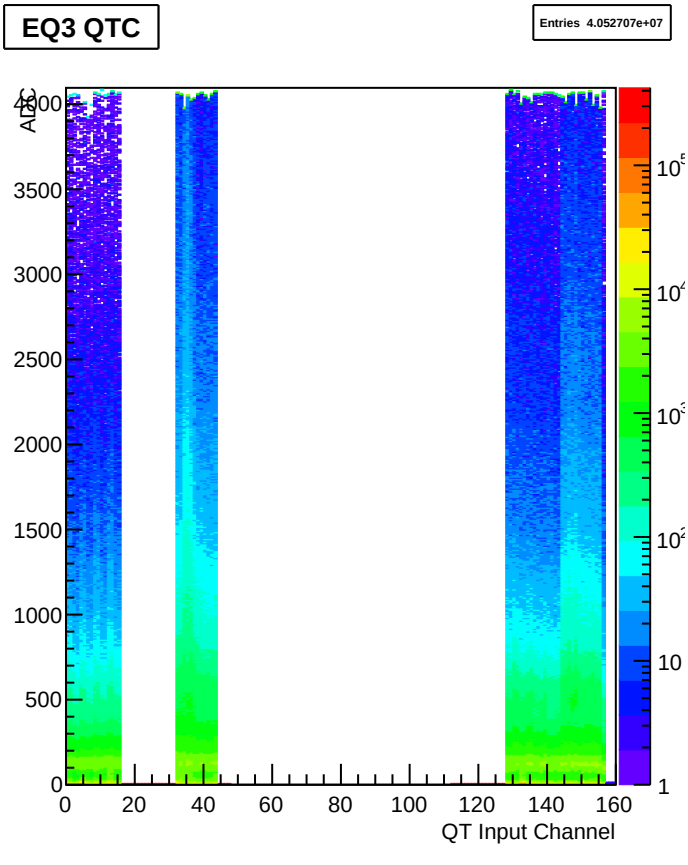

EQ2 QTB
Entries 3.943499e+07
TDC
QT Input Channel

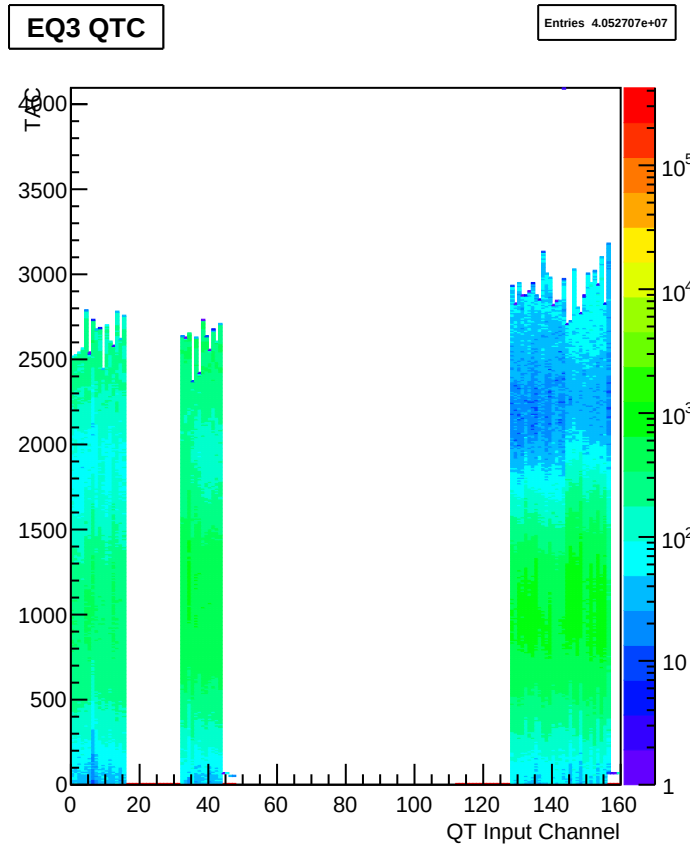

EQ2 QTC
Entries 4.052707e+07
ADC
QT Input Channel

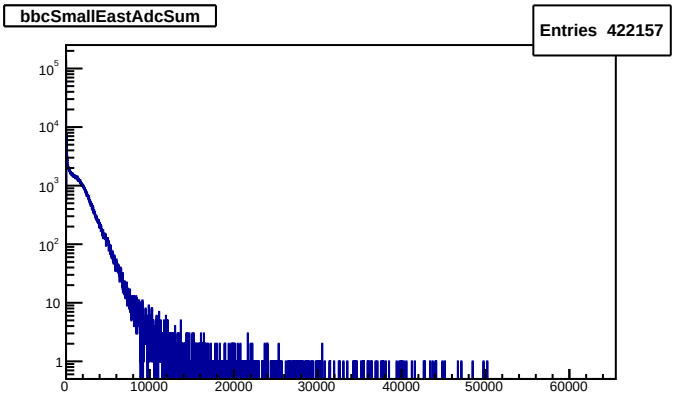

EQ2 QTC
Entries 4.052707e+07
TADC
QT Input Channel

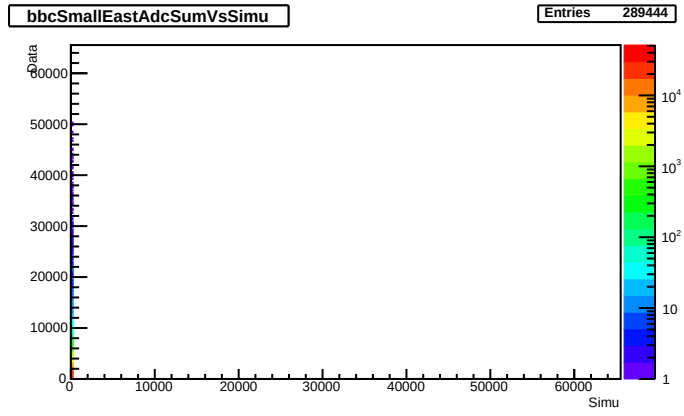

EQ3 QTB
Entries 1.080722e+08
ADC
QT Input Channel

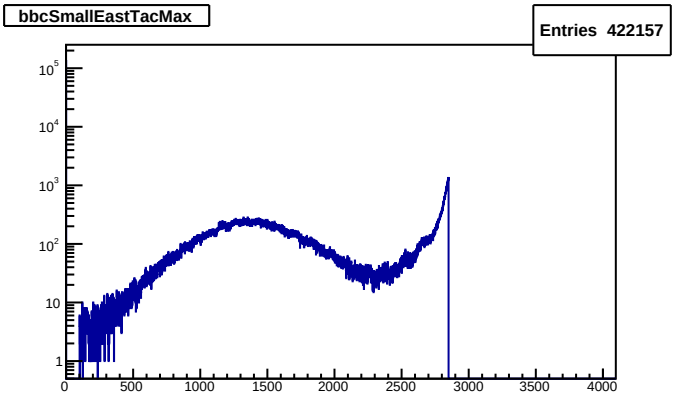

EQ3 QTB
Entries 3.244488e+07
TDC
QT Input Channel

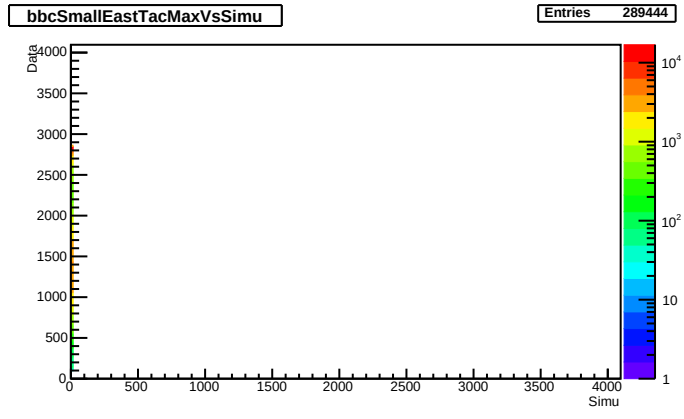

EQ3 QTC
Entries 4.052707e+07
ADC
QT Input Channel

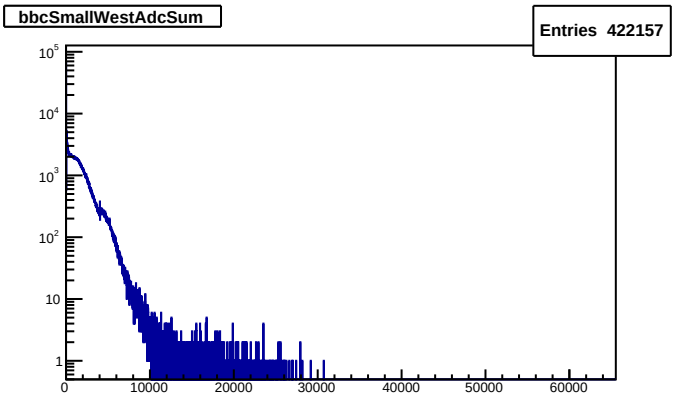

EQ3 QTC
Entries 4.052707e+07
TADC
QT Input Channel

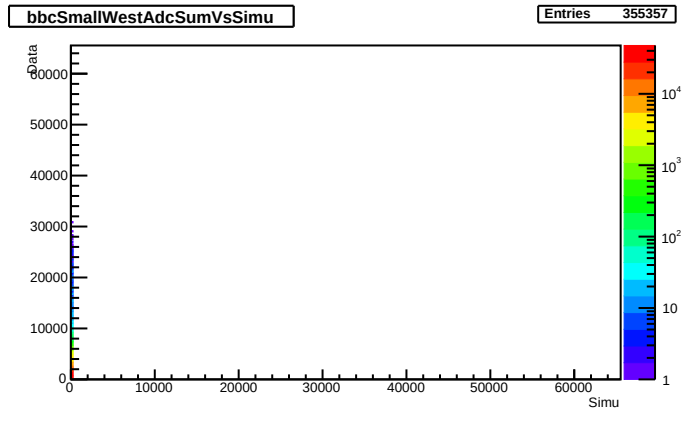

bbcSmallEastAdcSum
Entries 422157

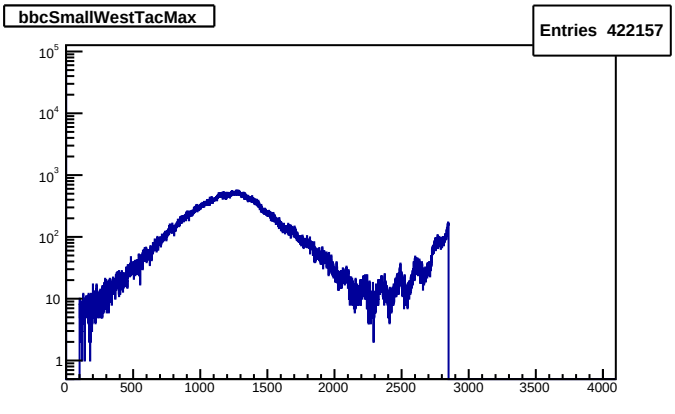

bbcSmallEastAdcSumVsSimu
Entries 289444
Data
Simu

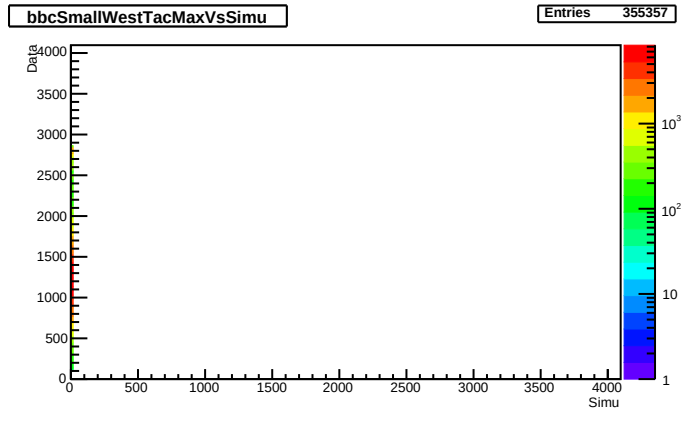

bbcSmallEastTacMax
Entries 422157

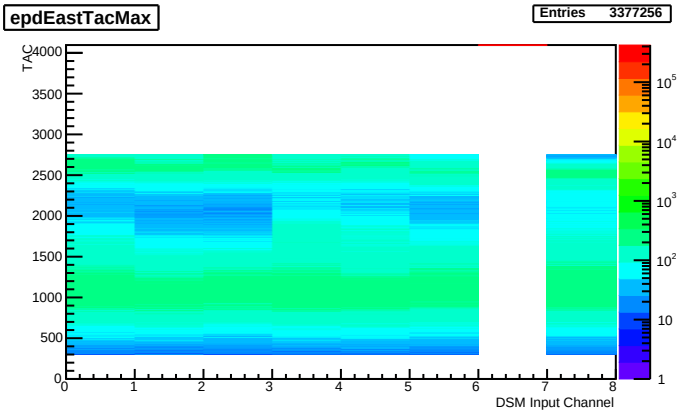

bbcSmallEastTacMaxVsSimu
Entries 289444
Data
Simu

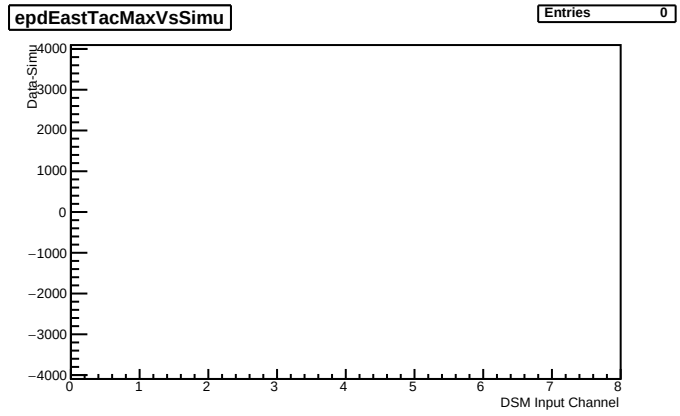

bbcSmallWestAdcSum
Entries 422157

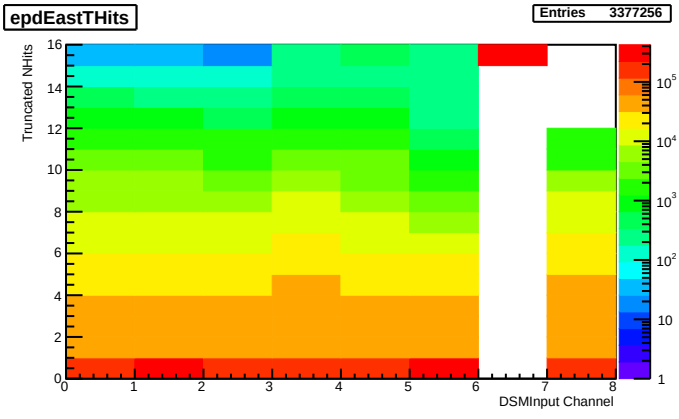

bbcSmallWestAdcSumVsSimu
Entries 355357
Data
Simu

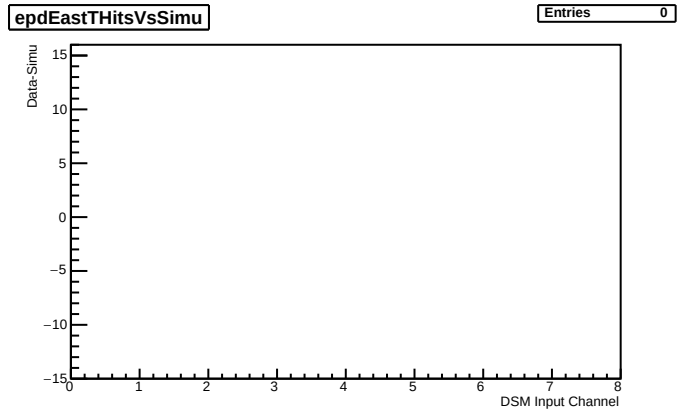

bbcSmallWestTacMax
Entries 422157

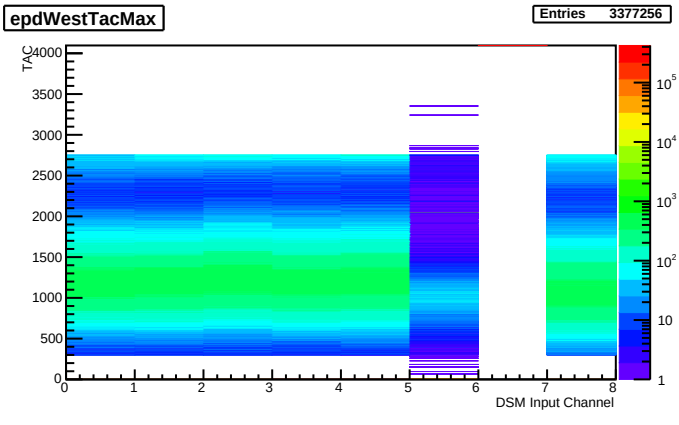

bbcSmallWestTacMaxVsSimu
Entries 355357
Data
Simu

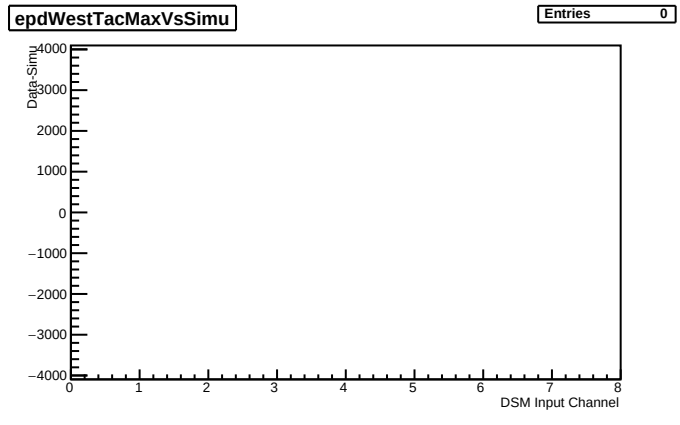

epdEastTacMax
Entries 3377256
TAC
DSM Input Channel

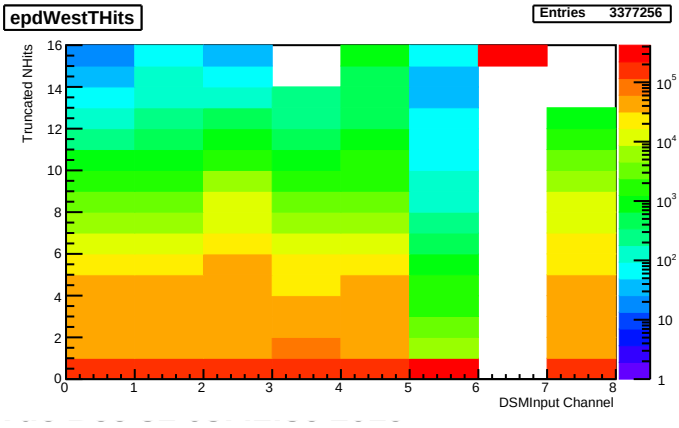

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

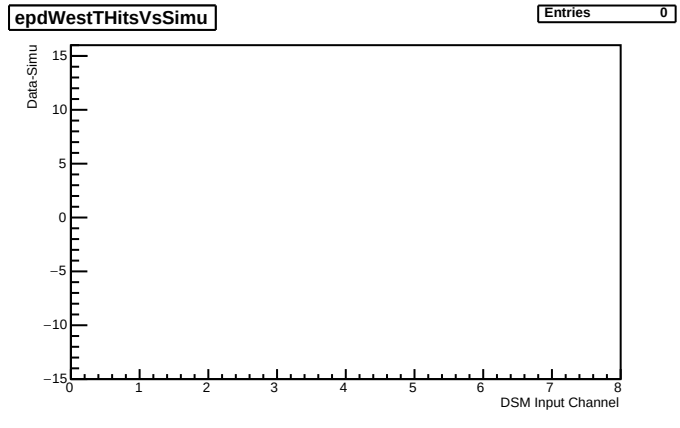

epdEastTHits
Entries 3377256
Truncated NHits
DSMInput Channel

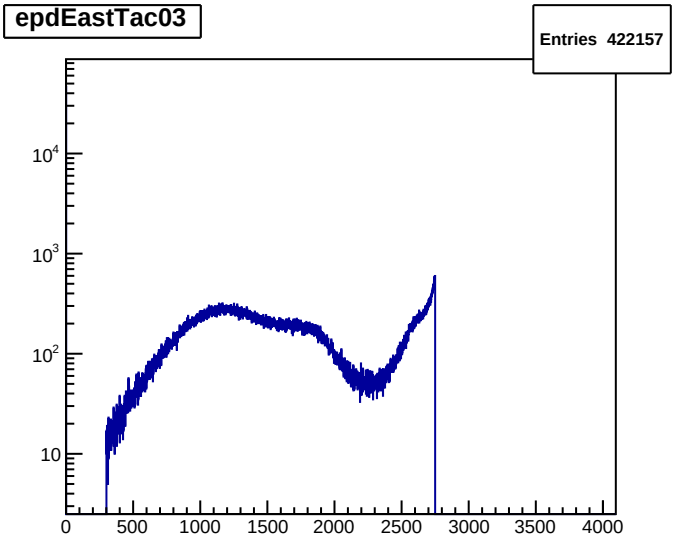

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

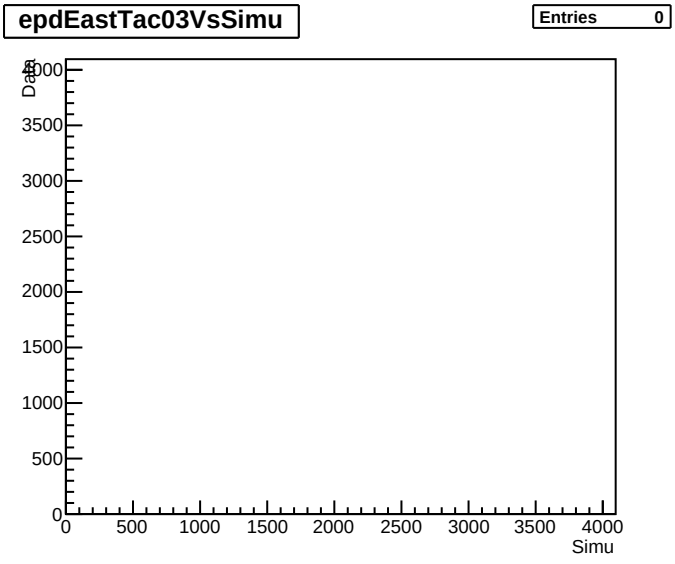

epdWestTacMax
Entries 3377256
TAC
DSM Input Channel

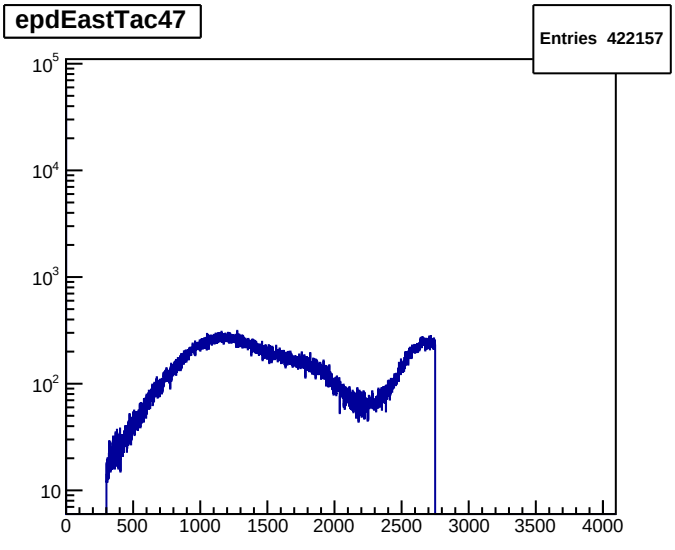

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

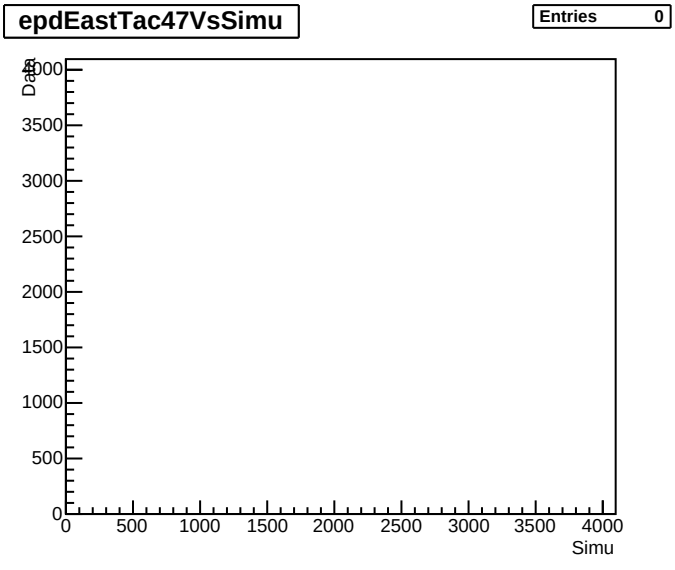

epdWestTHits
Entries 3377256
Truncated NHits
DSMInput Channel

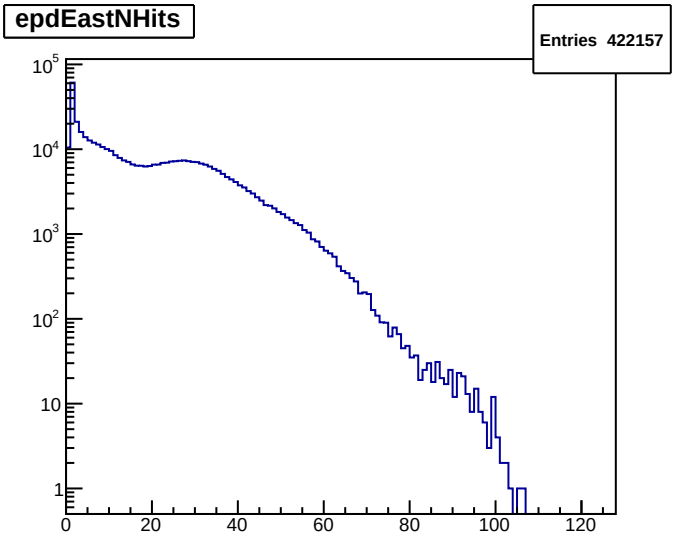

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

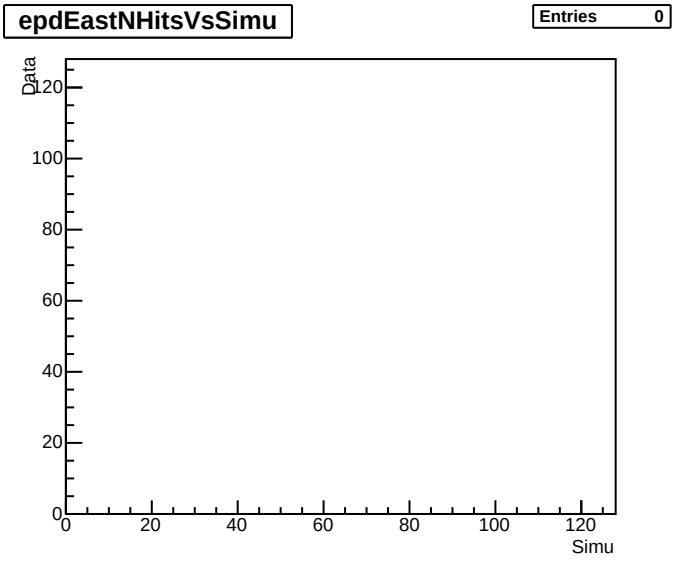

epdEastTac03
Entries 422157

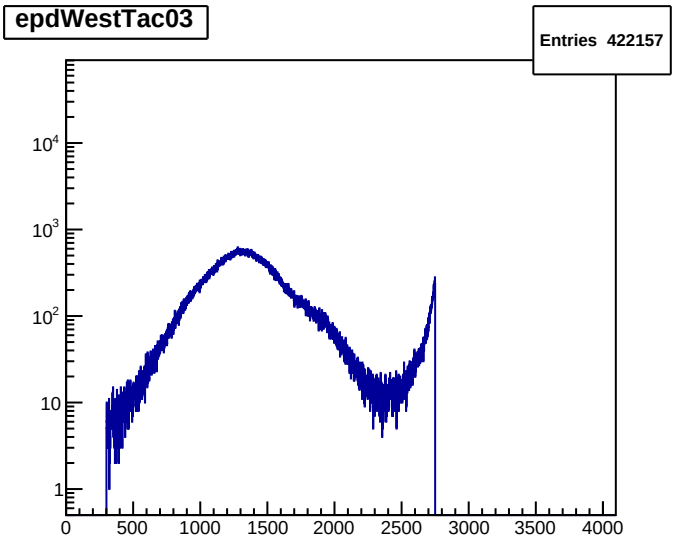

epdEastTac03VsSimu
Entries 0
Data
Simu

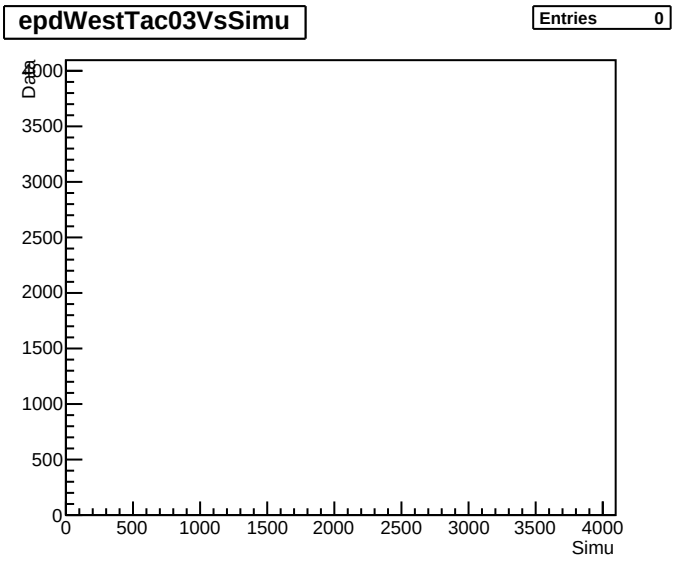

epdEastTac47
Entries 422157

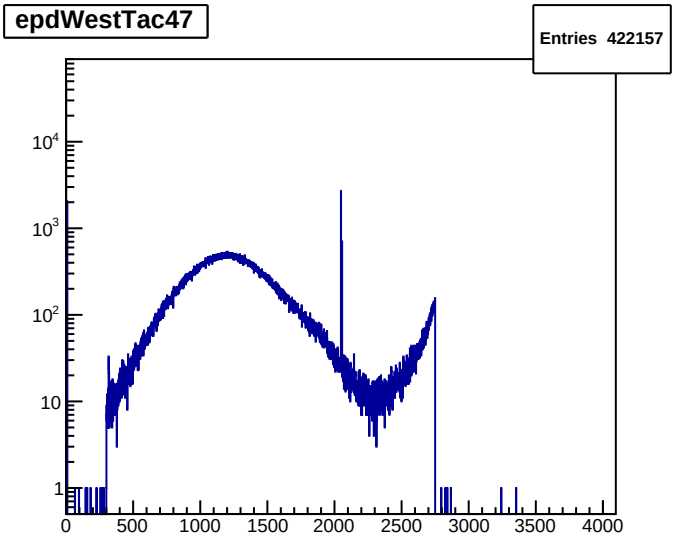

epdEastTac47VsSimu
Entries 0
Data
Simu

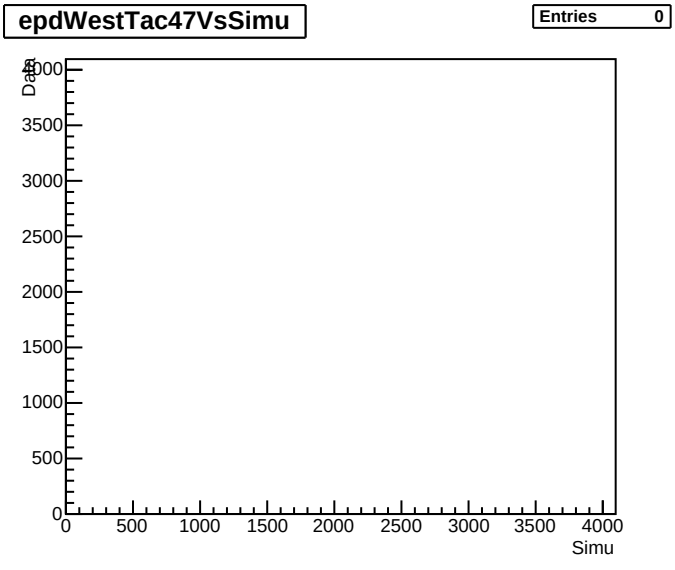

epdEastNHits
Entries 422157

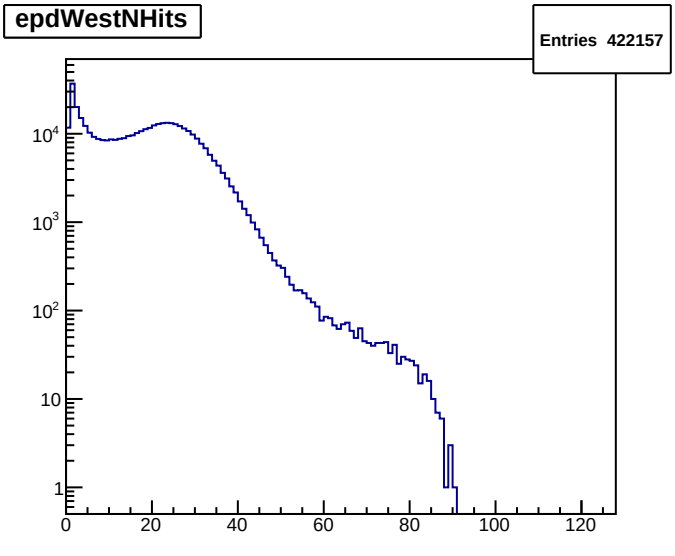

epdEastNHitsVsSimu
Entries 0
Data
Simu

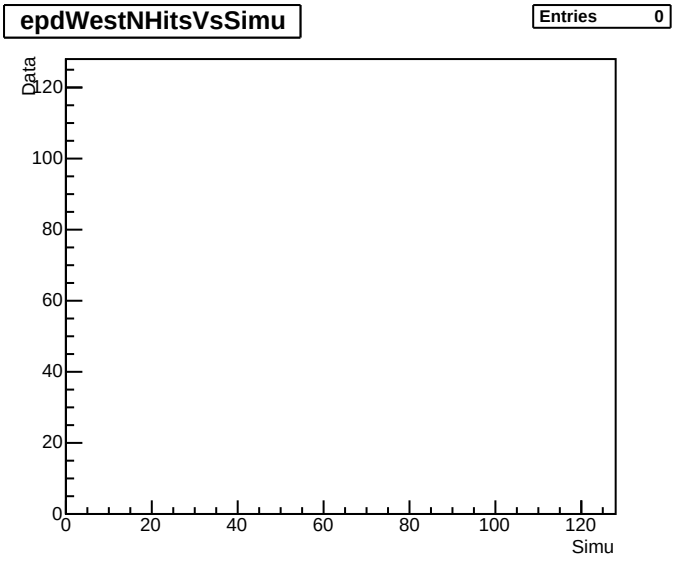

epdWestTac03
Entries 422157

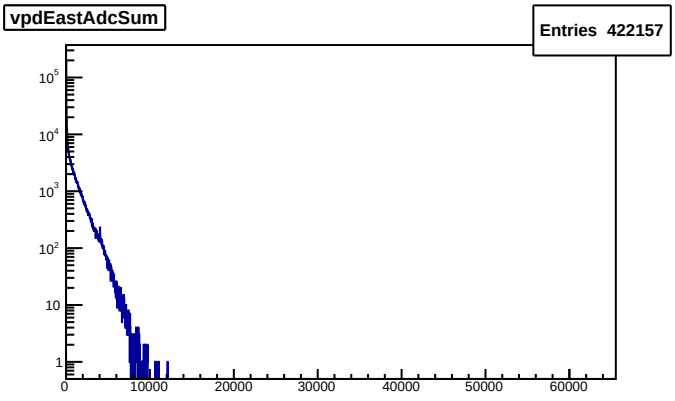

epdWestTac03VsSimu
Entries 0
Data
Simu

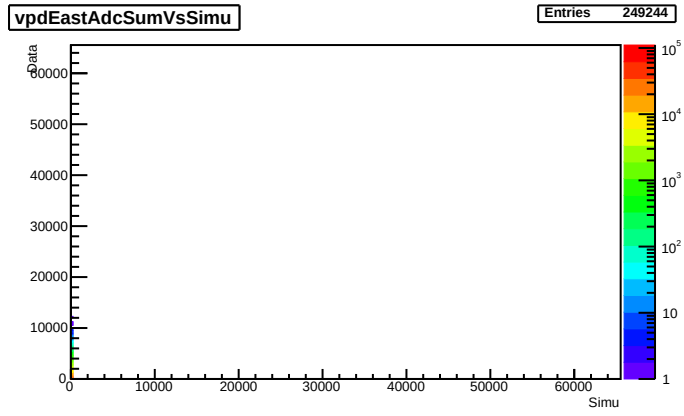

epdWestTac47
Entries 422157

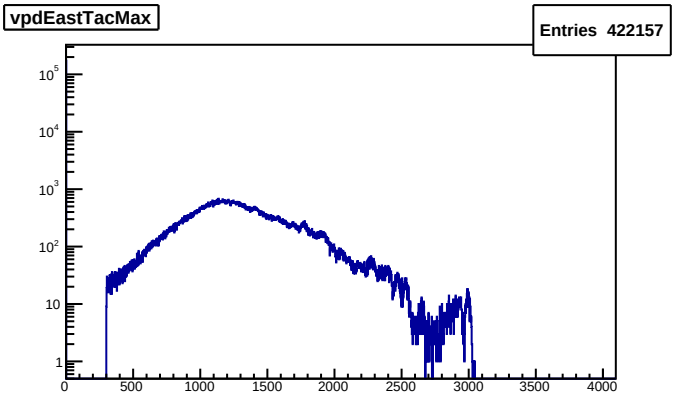

epdWestTac47VsSimu
Entries 0
Data
Simu

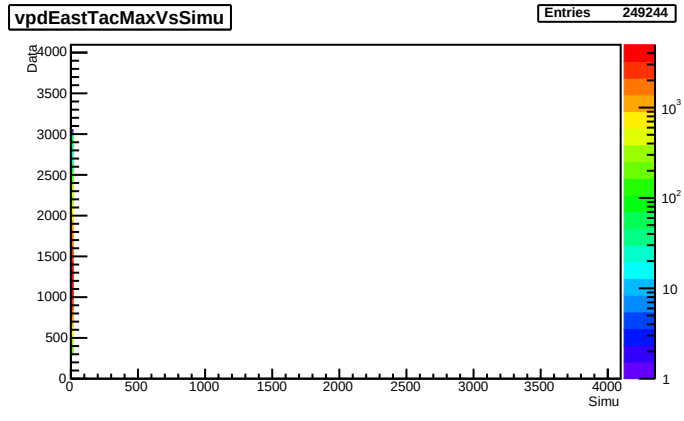

epdWestNHits
Entries 422157

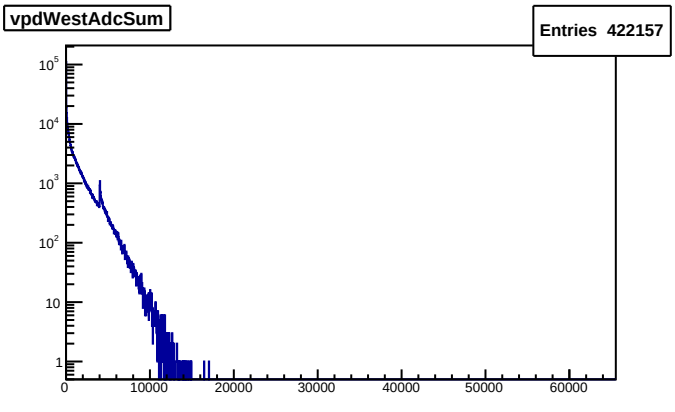

epdWestNHitsVsSimu
Entries 0
Data
Simu

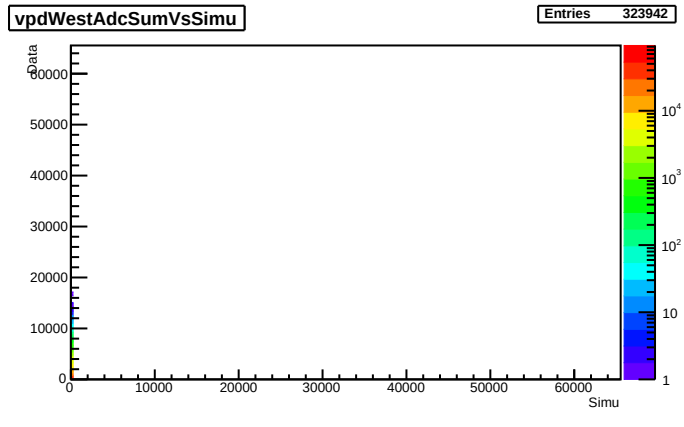

vpdEastAdcSum
Entries 422157

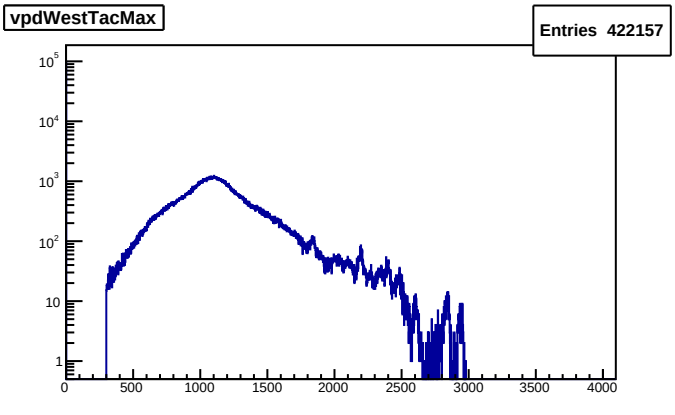

vpdEastAdcSumVsSimu
Entries 249244
Data
Simu

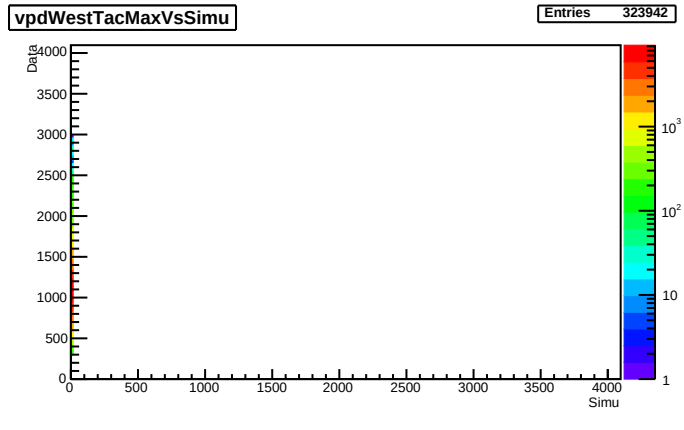

vpdEastTacMax
Entries 422157

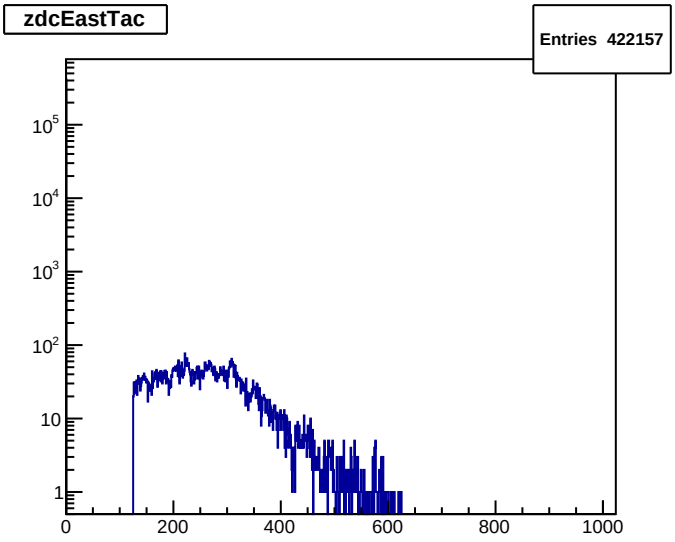

vpdEastTacMaxVsSimu
Entries 249244
Data
Simu

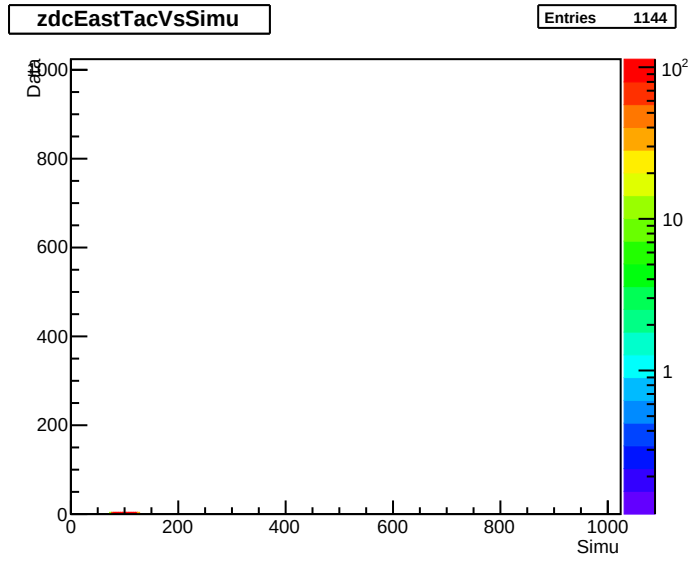

vpdWestAdcSum
Entries 422157

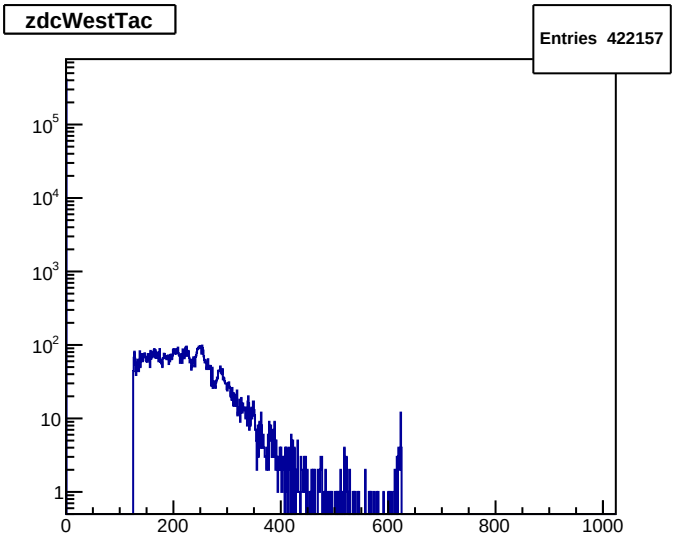

vpdWestAdcSumVsSimu
Entries 323942
Data
Simu

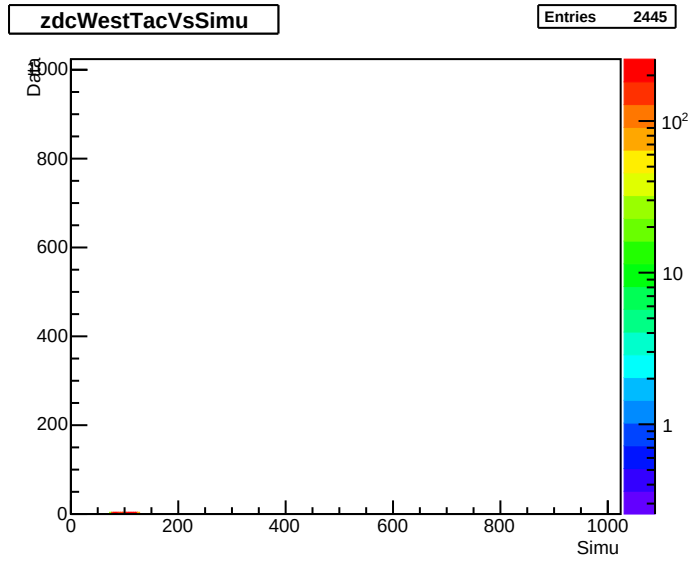

vpdWestTacMax
Entries 422157

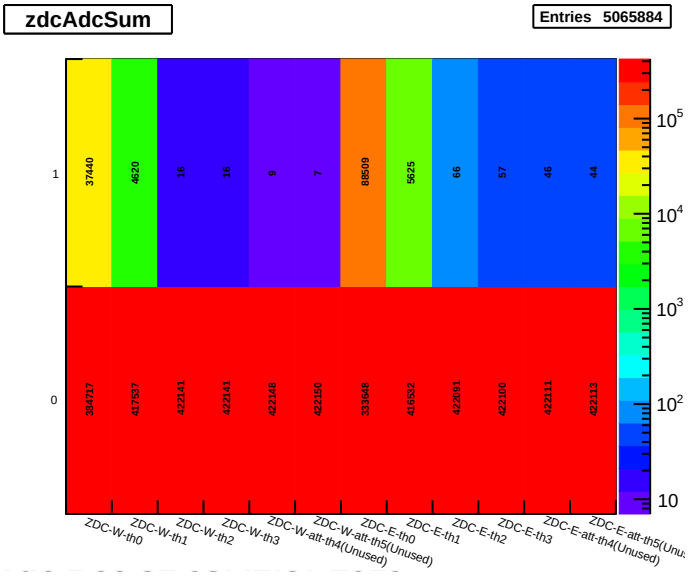

vpdWestTacMaxVsSimu
Entries 323942
Data
Simu

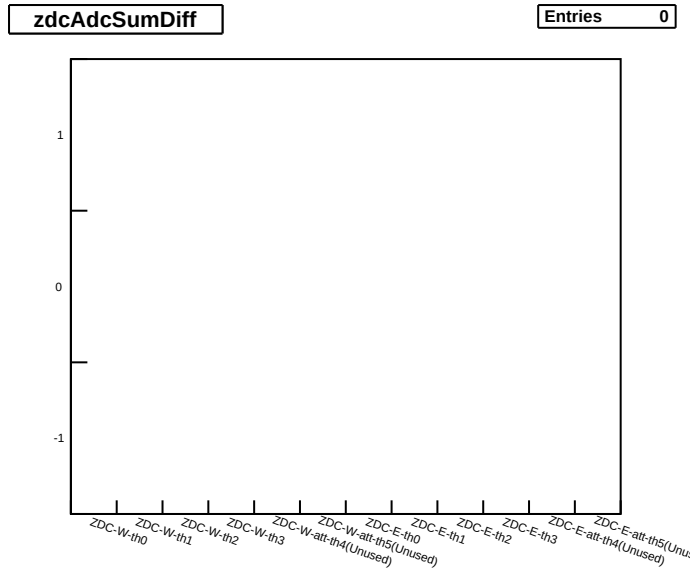

zdcEastTac
Entries 422157

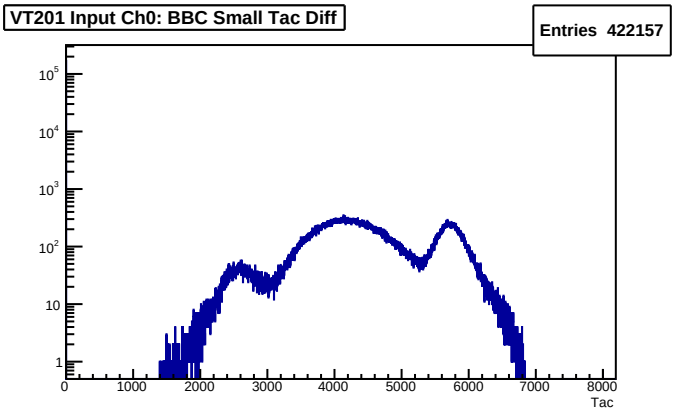

zdcEastTacVsSimu
Entries 1144
Data
Simu

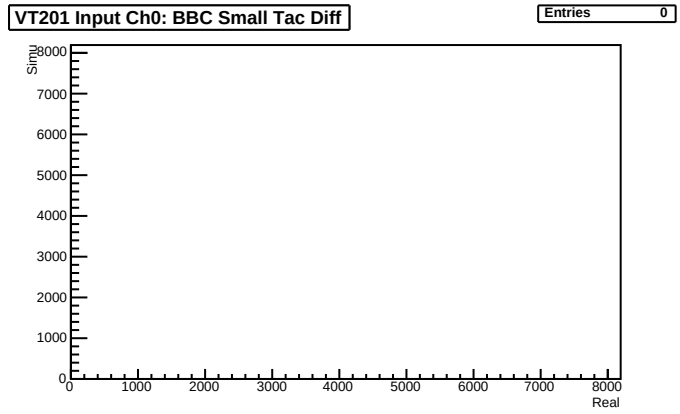

zdcWestTac
Entries 422157

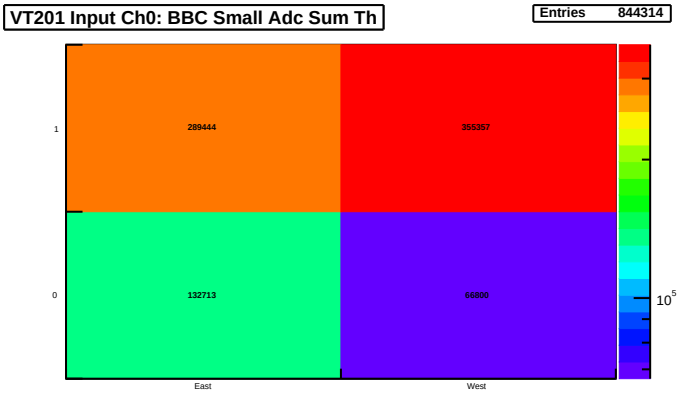

zdcWestTacVsSimu
Entries 2445
Data
Simu

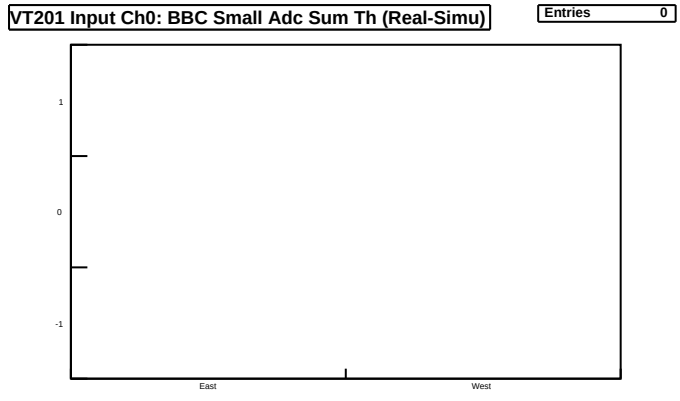

zdcAdcSum
Entries 5065884
37440
4620
16
16
9
7
88509
5625
66
57
46
44
384717
417537
422141
422141
422148
422150
333648
416532
422091
422100
422111
422113
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

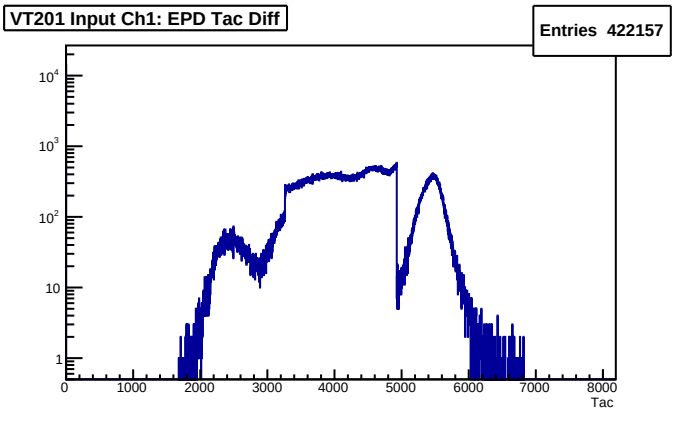

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

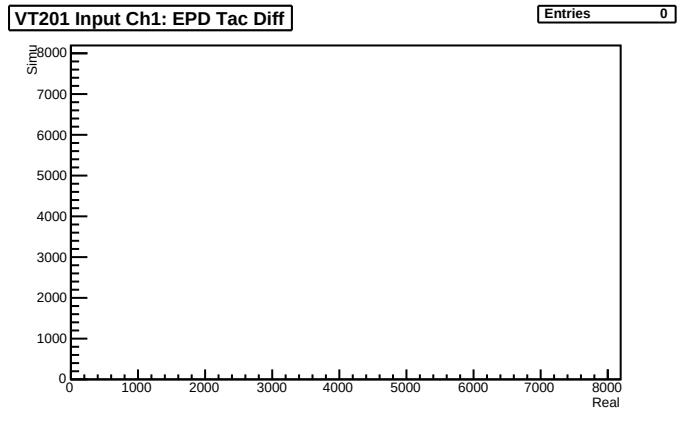

VT201 Input Ch0: BBC Small Tac Diff
Entries 422157
Tac

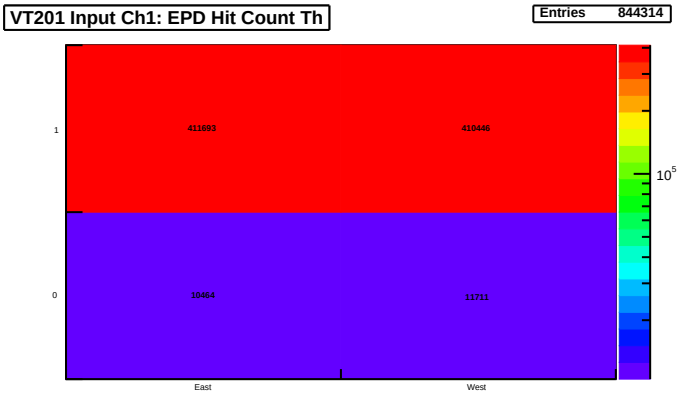

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

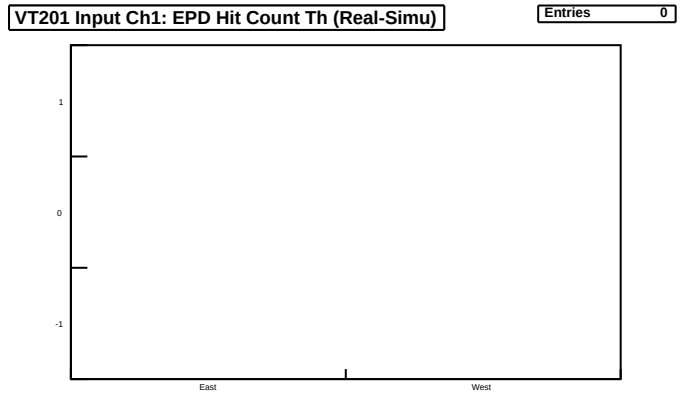

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 844314
289444
355357
132713
66800
East
West

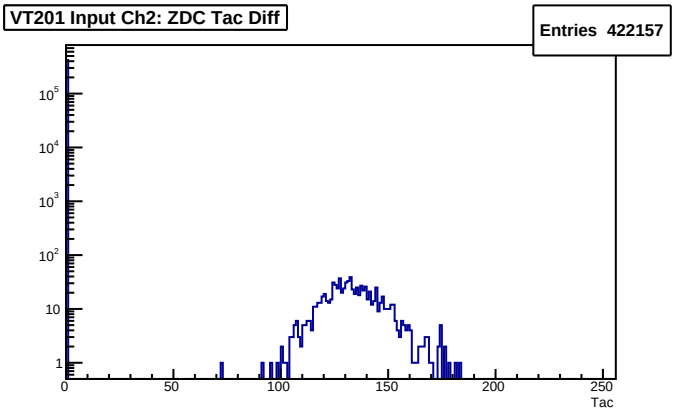

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

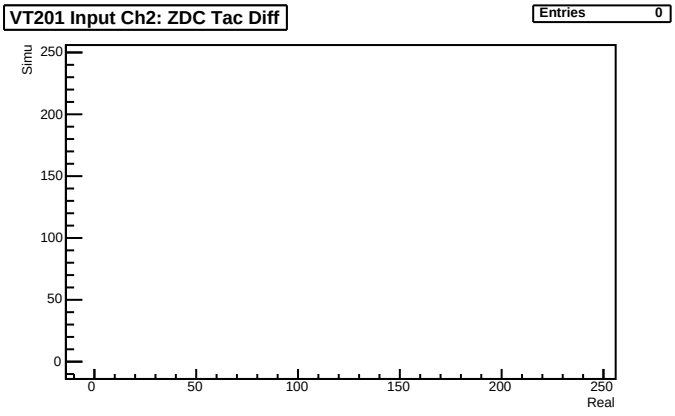

VT201 Input Ch1: EPD Tac Diff
Entries 422157
Tac

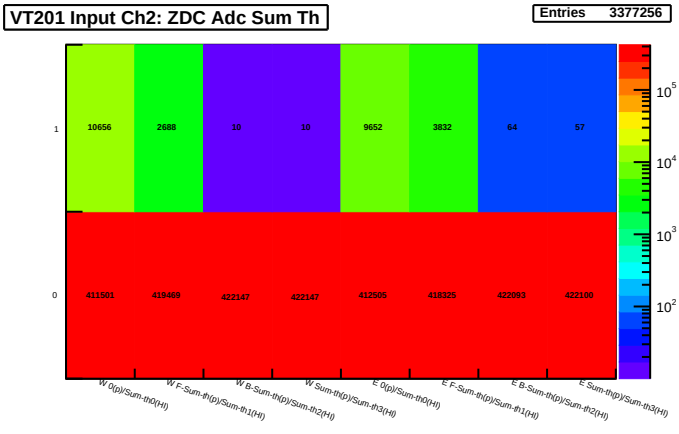

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

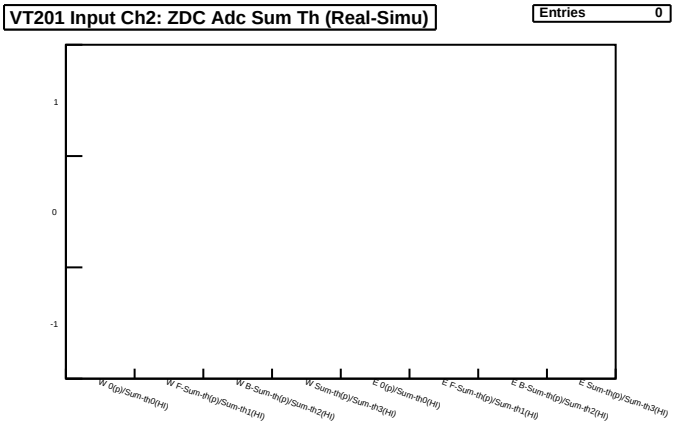

VT201 Input Ch1: EPD Hit Count Th
Entries 844314
411693
410446
10464
11711
East
West

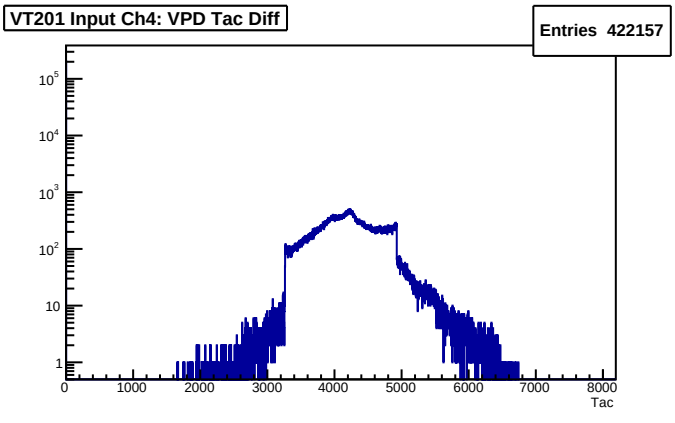

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

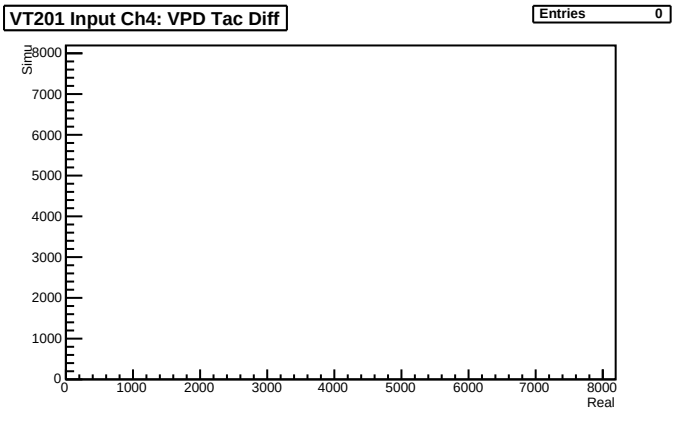

VT201 Input Ch2: ZDC Tac Diff
Entries 422157
Tac

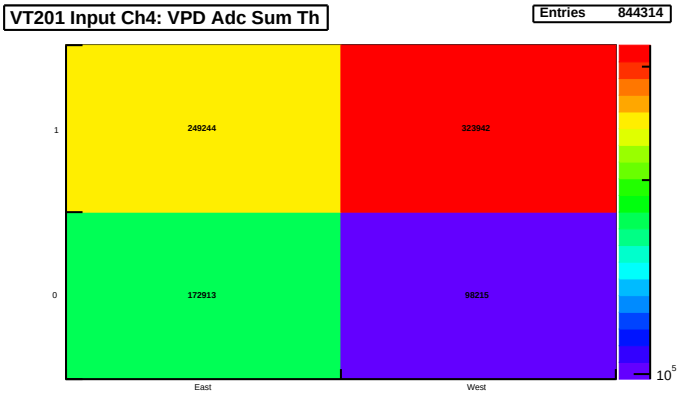

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

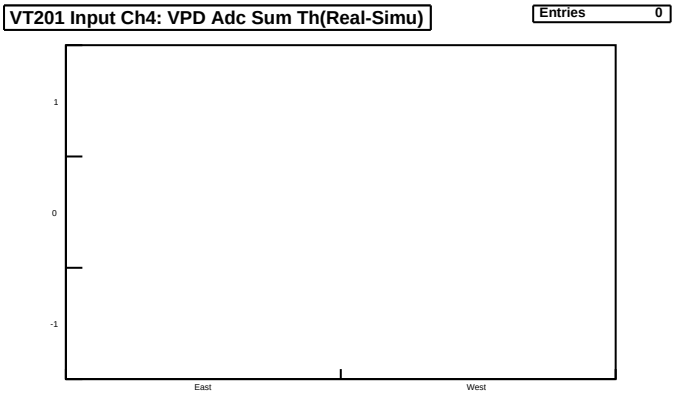

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3377256
10656
2688
10
10
9652
3832
64
57
411501
419469
422147
422147
412505
418325
422093
422100
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

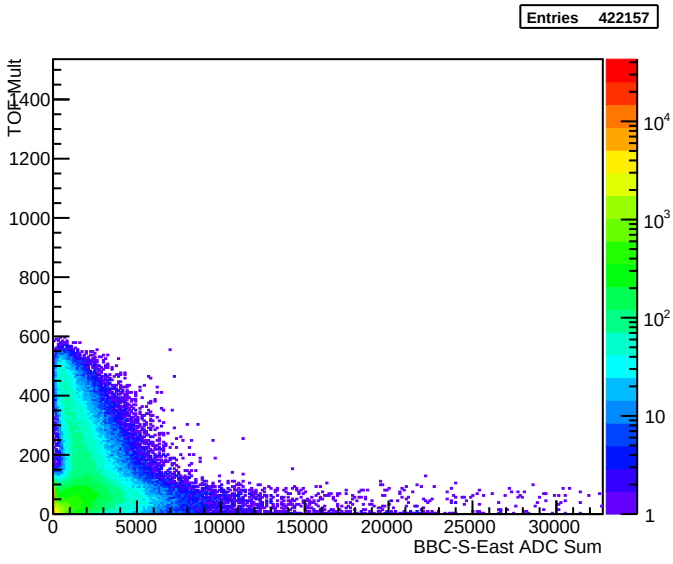

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

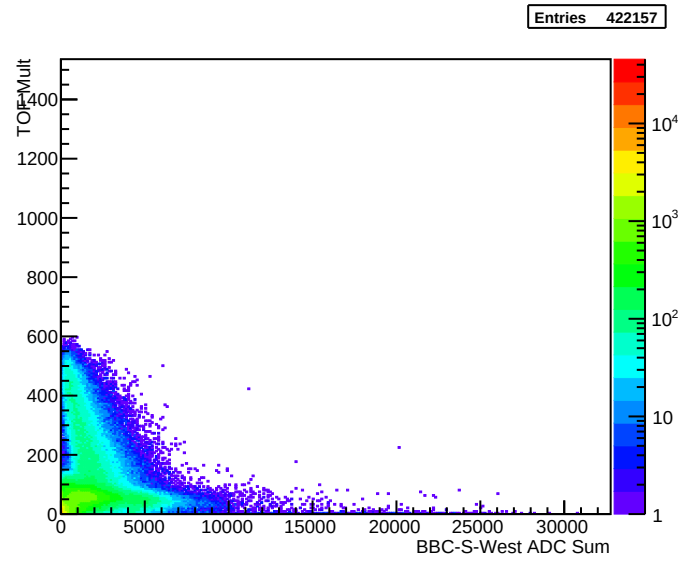

VT201 Input Ch4: VPD Tac Diff
Entries 422157
Tac

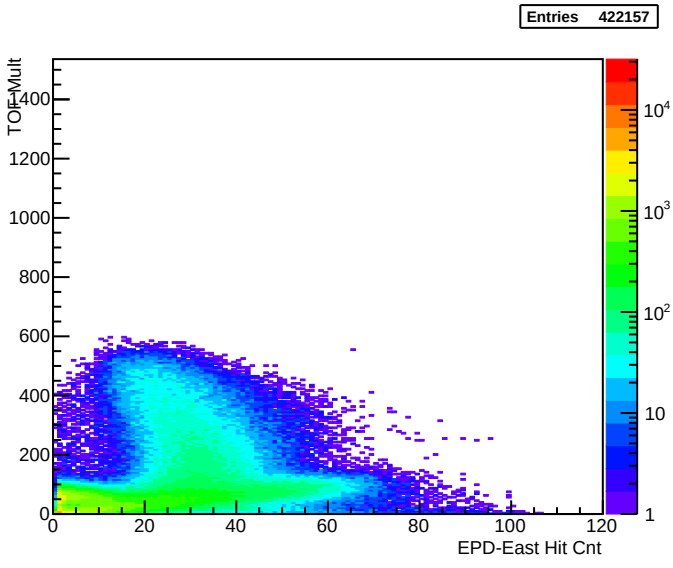

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

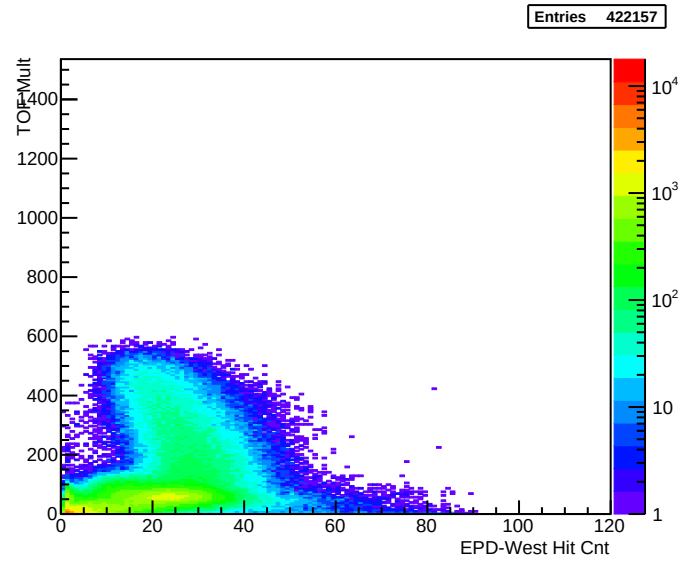

VT201 Input Ch4: VPD Adc Sum Th
Entries 844314
249244
323942
172913
98215
East
West

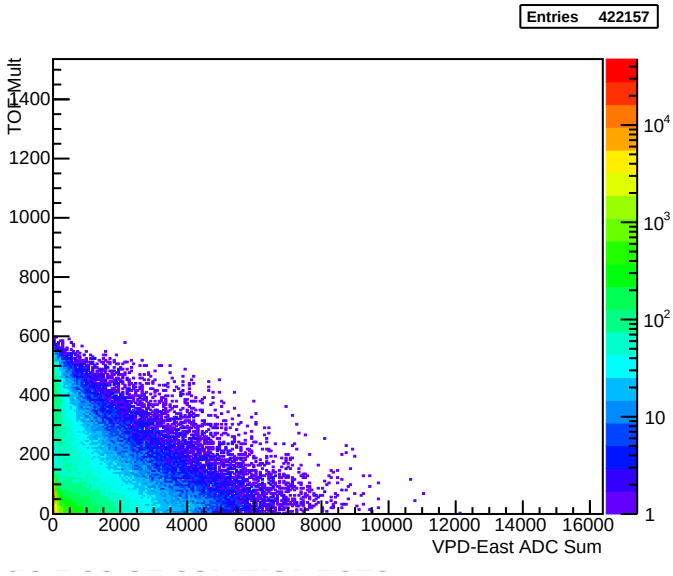

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

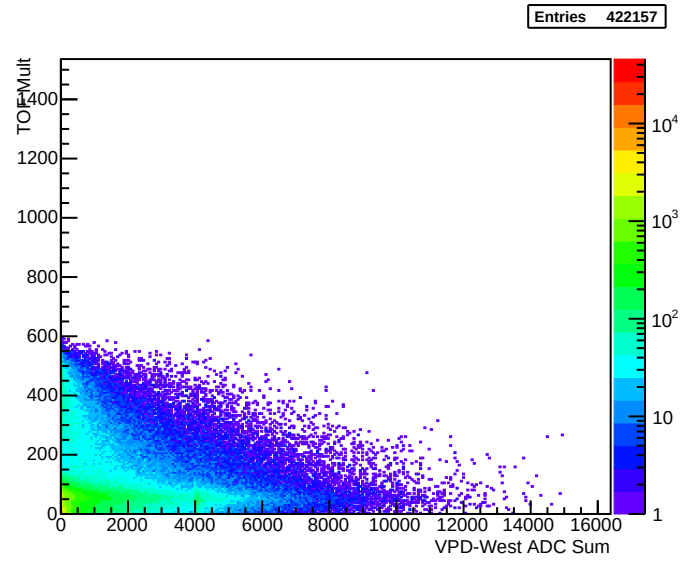

Entries 422157
TOF-Mult
BBC-S-East ADC Sum

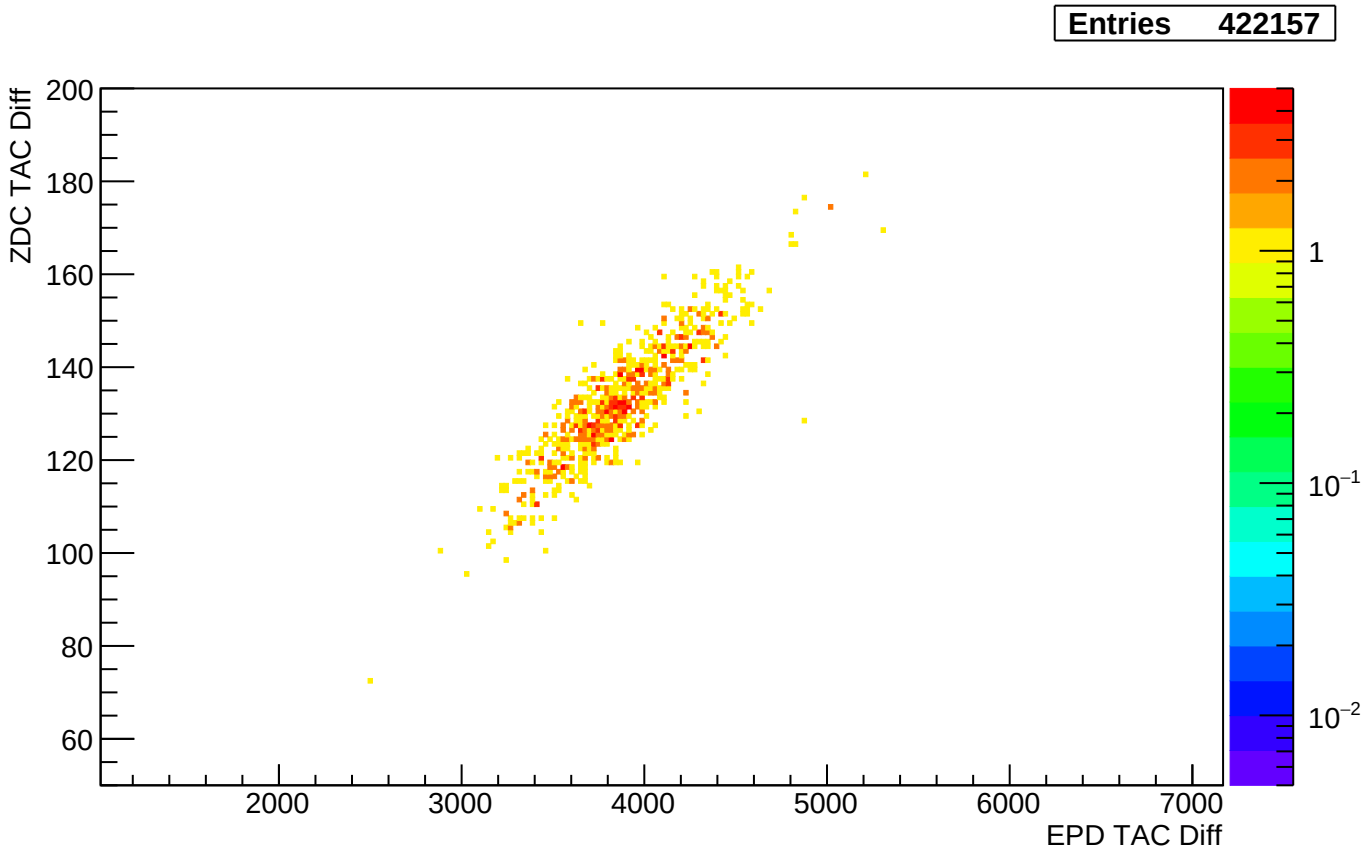

Entries 422157
TOF-Mult
BBC-S-West ADC Sum

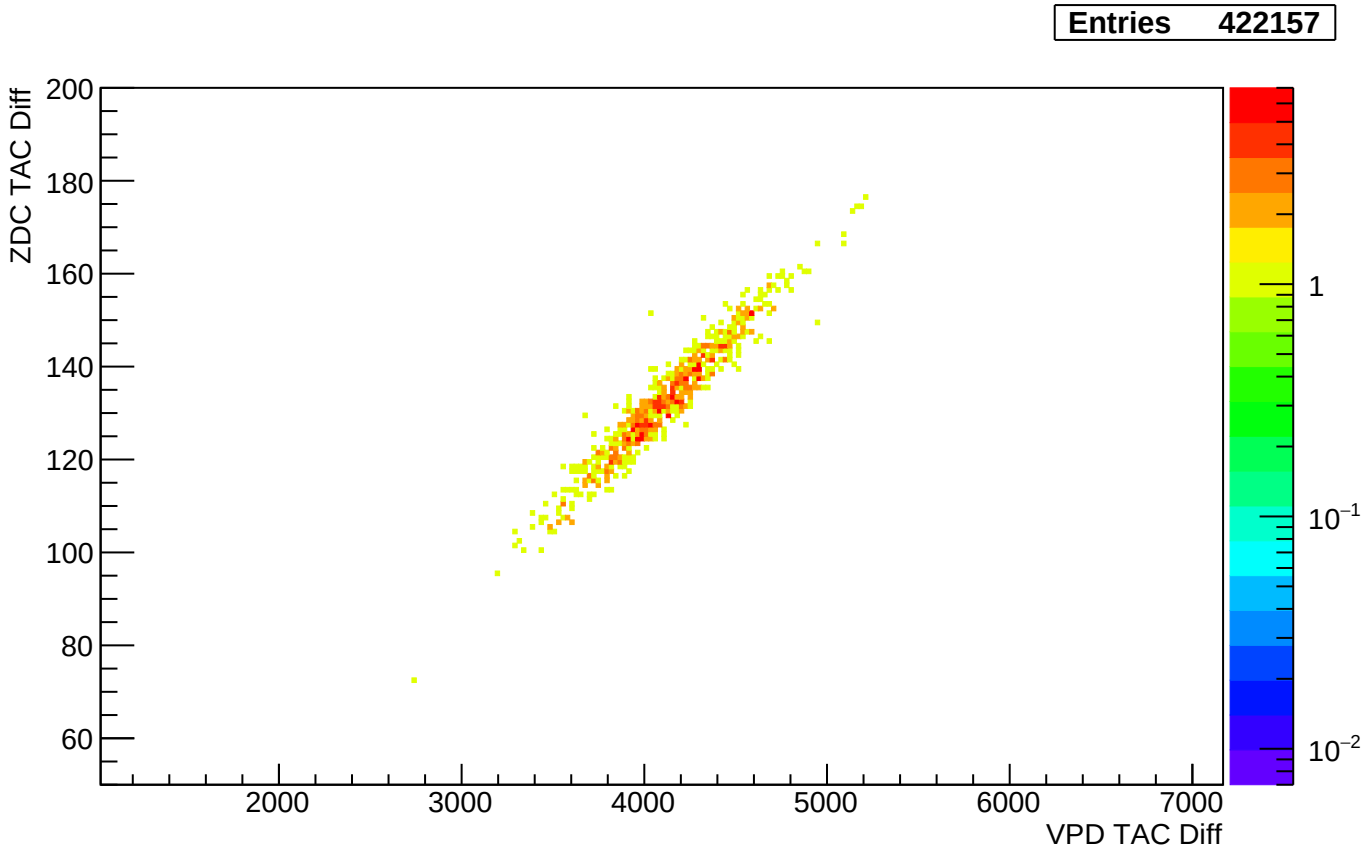

Entries 422157
TOF-Mult
EPD-East Hit Cnt

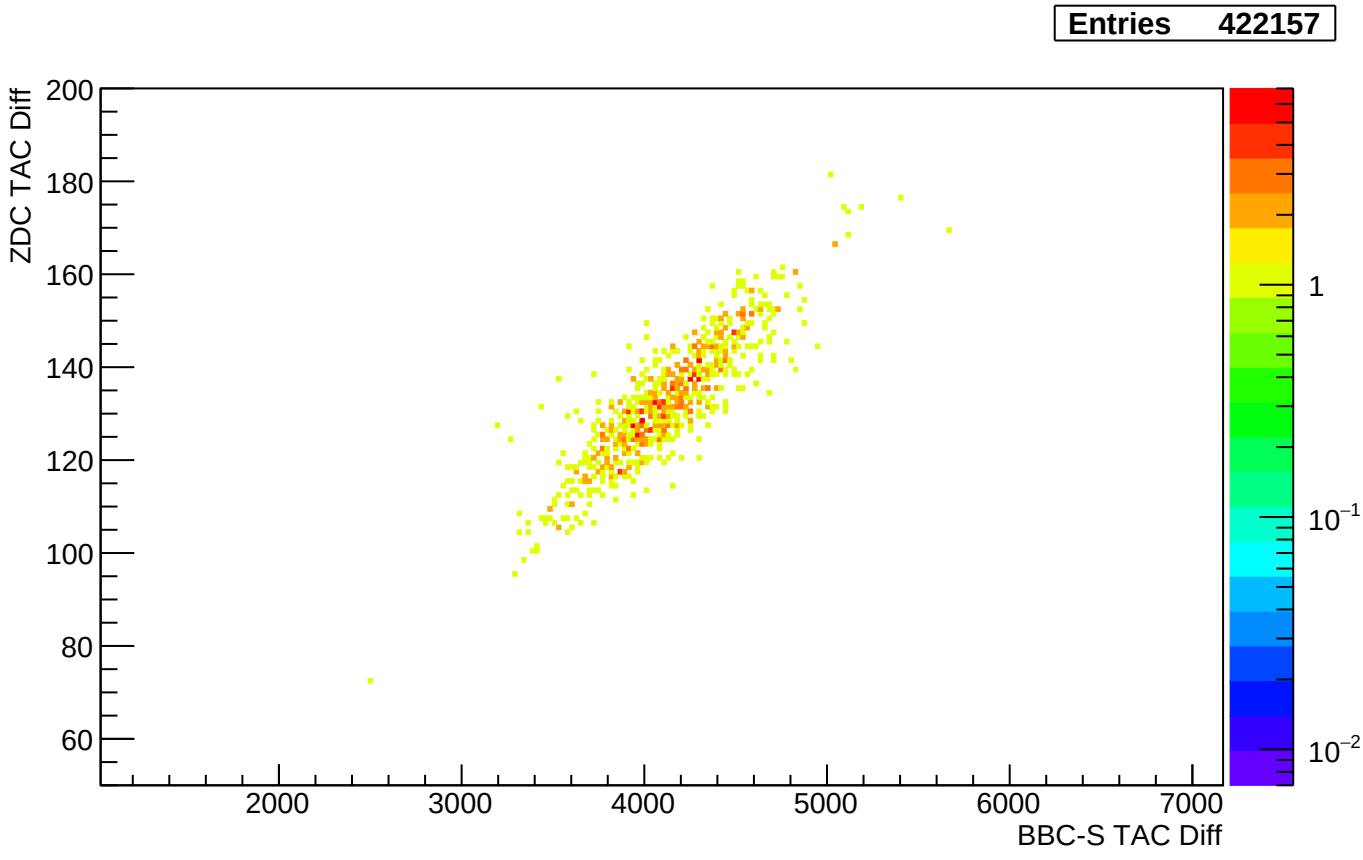

Entries 422157
TOF-Mult
EPD-West Hit Cnt

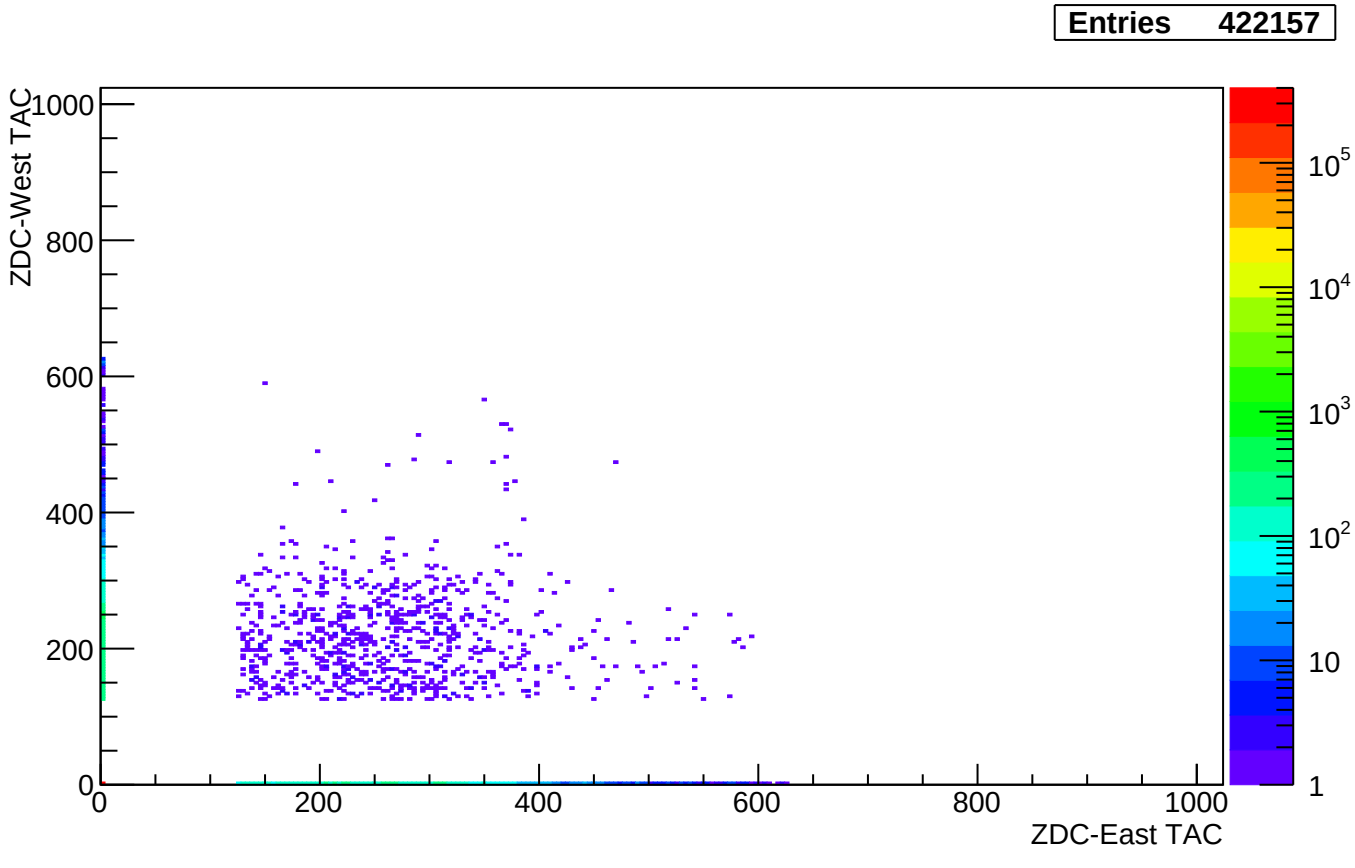

Entries 422157
TOF-Mult
VPD-East ADC Sum

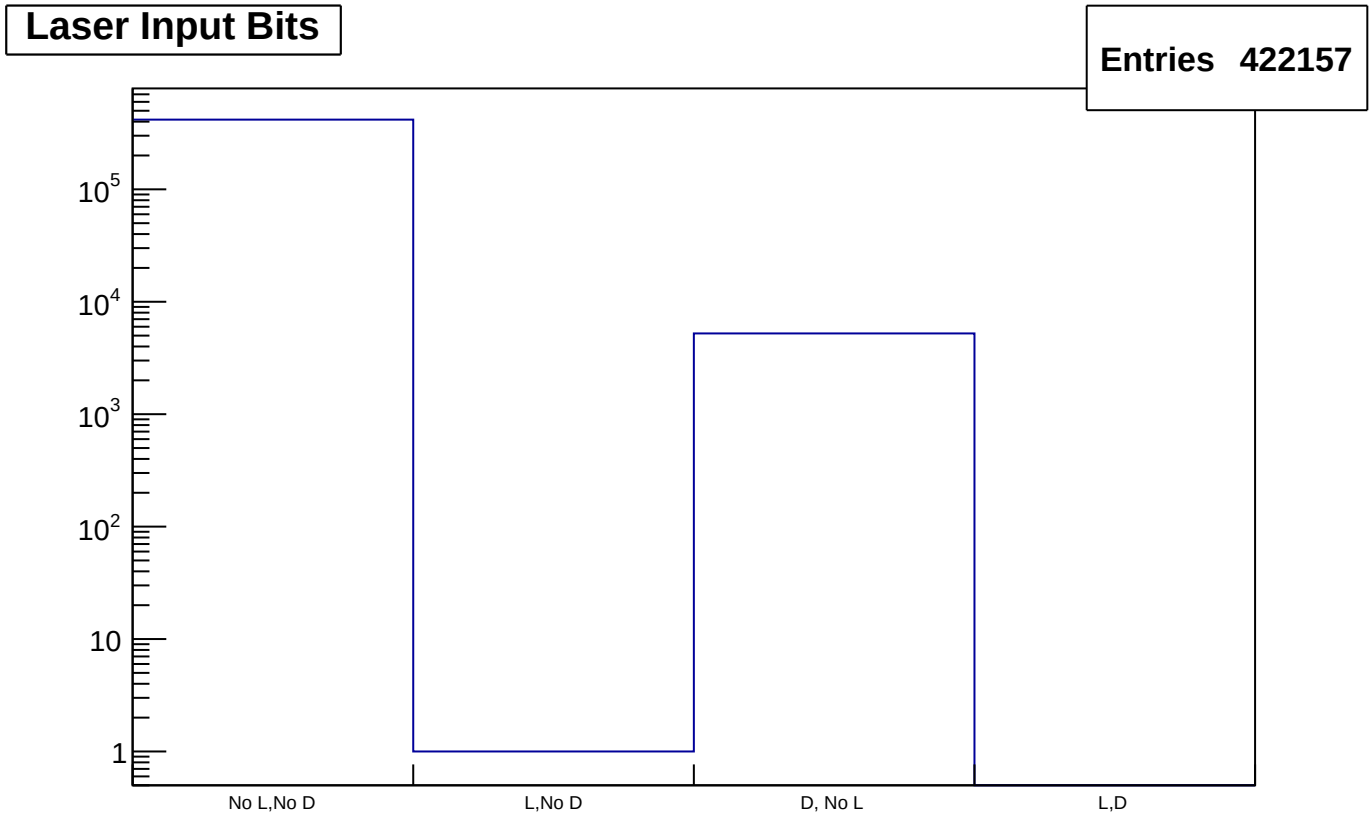

Entries 422157
TOF-Mult
VPD-West ADC Sum

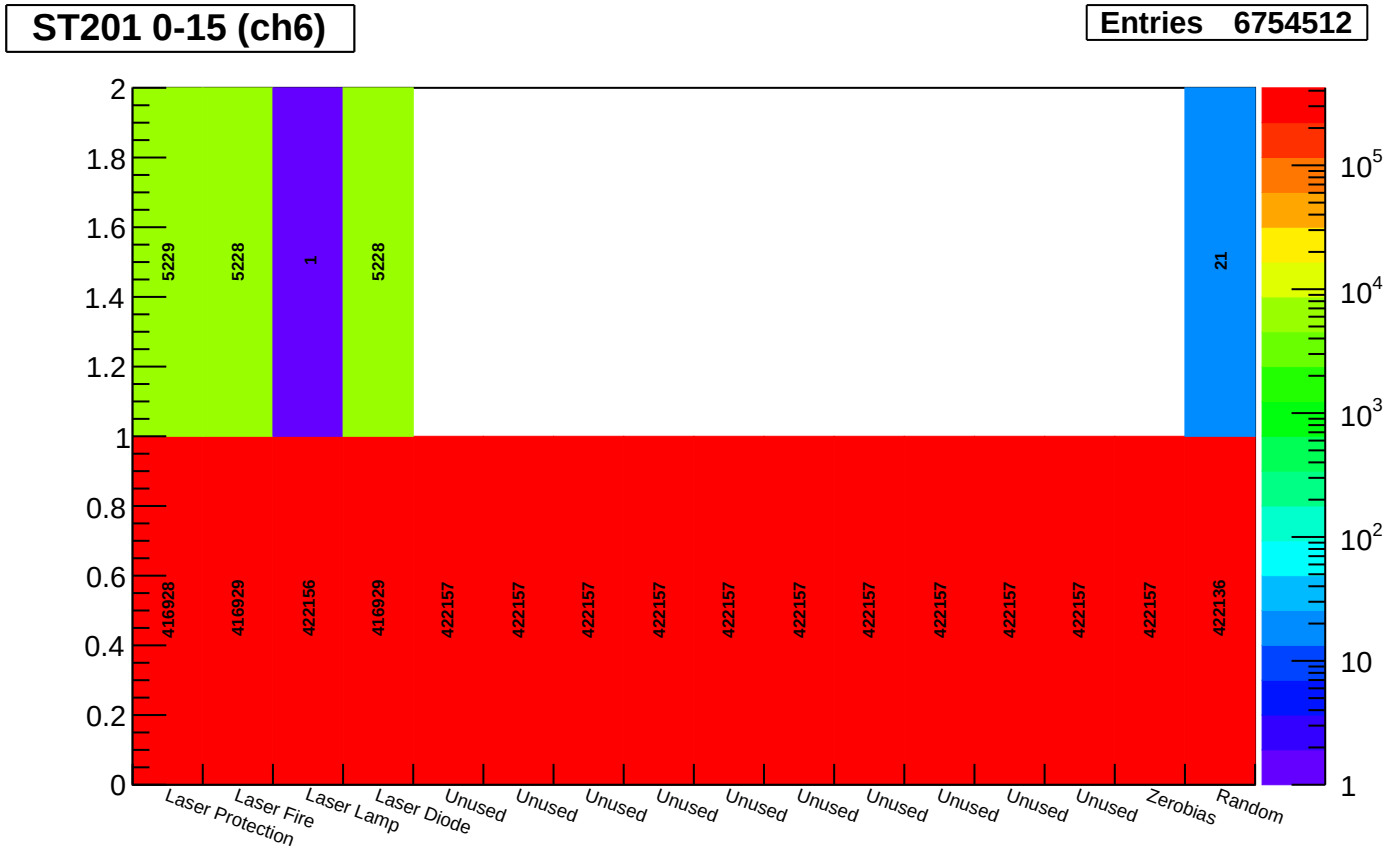

Entries 422157
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

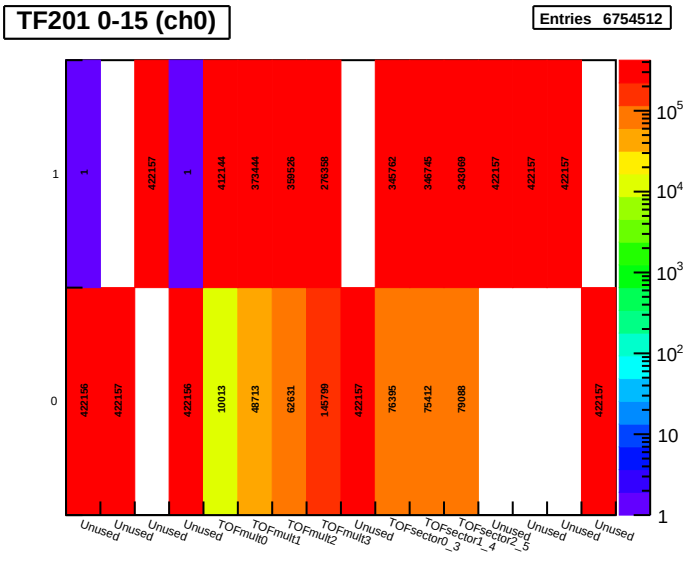

Entries 422157
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

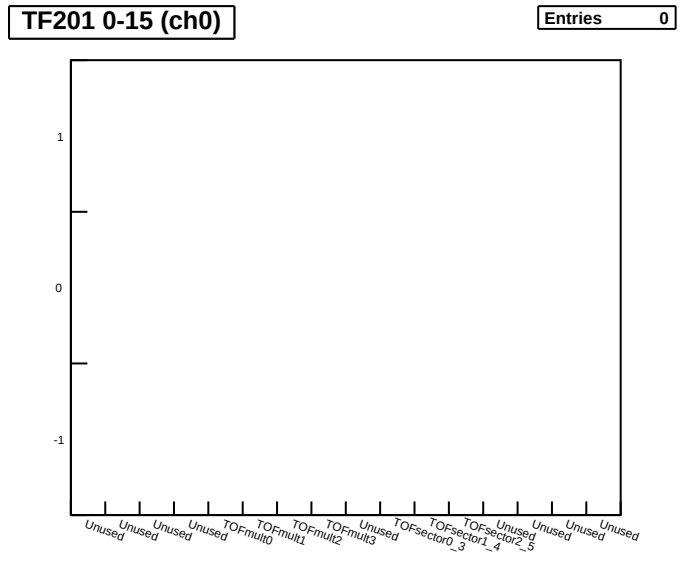

Entries 422157
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

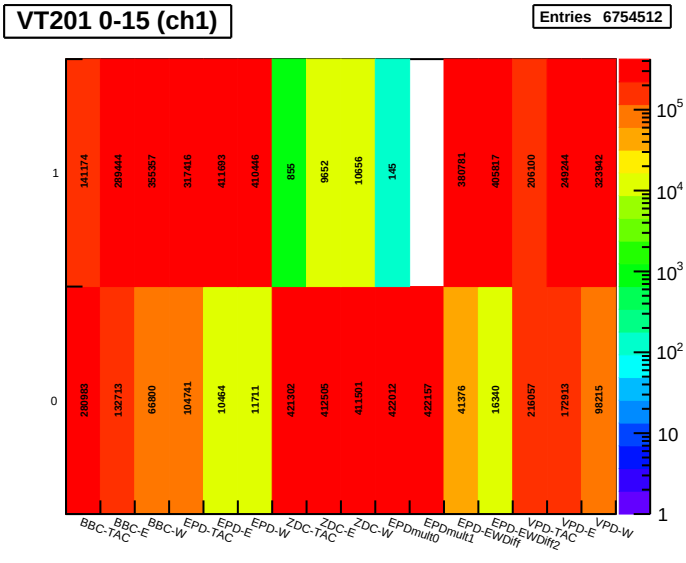

Entries 422157
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

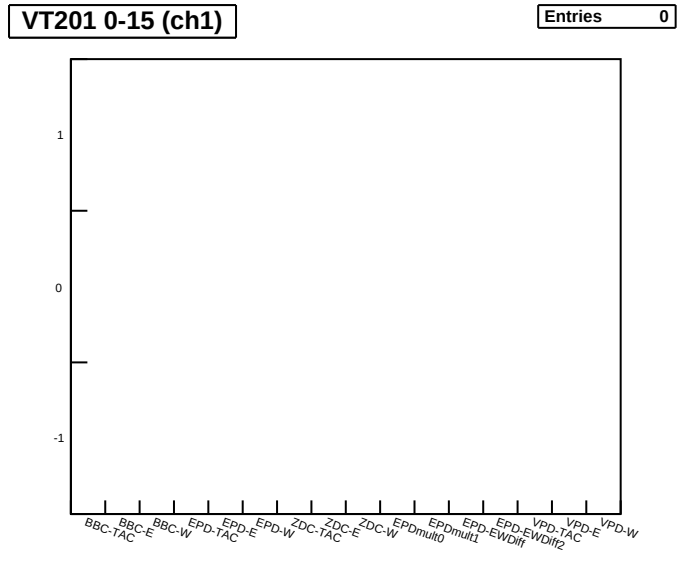

Laser Input Bits
Entries 422157
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

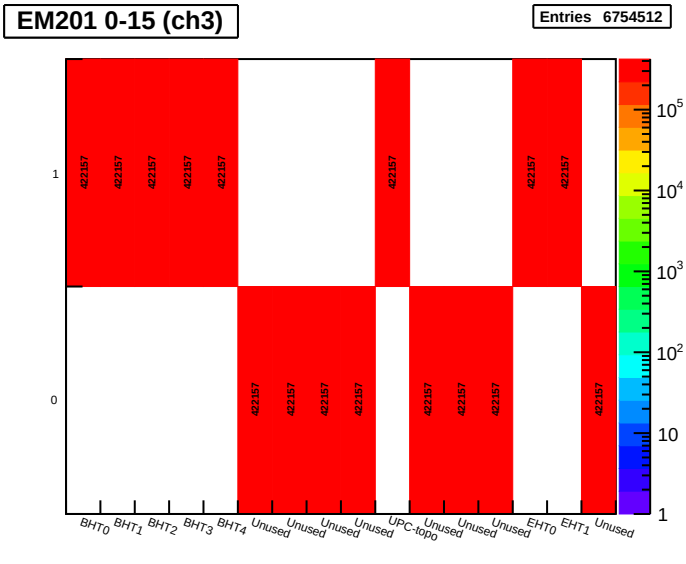

ST201 0-15 (ch6)
Entries 6754512
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5229
5228
1
5228
21
416928
416929
422156
416929
422157
422157
422157
422157
422157
422157
422157
422157
422157
422157
422157
422136
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

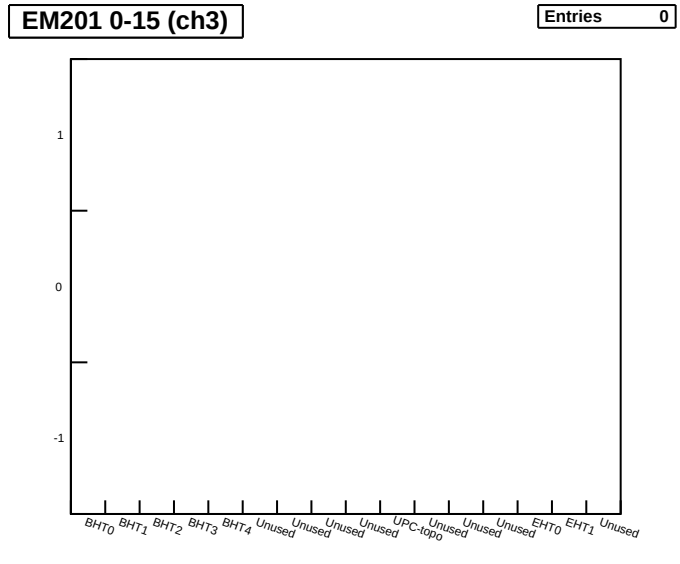

TF201 0-15 (ch0)
Entries 6754512
1 422157 1 412144 373444 389526 276358 345762 346745 343069 422157 422157 422157
0 422156 422157 422156 10013 48713 62631 145799 422157 76395 75412 79088 422157
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
1 0
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 Unused


VT201 0-15 (ch1)
Entries 6754512
1 141174 289444 355357 317416 411693 410446 855 9652 10656 145 380781 405817 206100 249244 323942
0 280983 132713 66800 104741 10464 11711 421302 412505 411501 422012 422157 41376 16340 216057 172913 98215
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 0
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 6754512
1 422157 422157 422157 422157 422157 422157 422157 422157
0 422157 422157 422157 422157 422157 422157 422157 422157
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
1 0
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