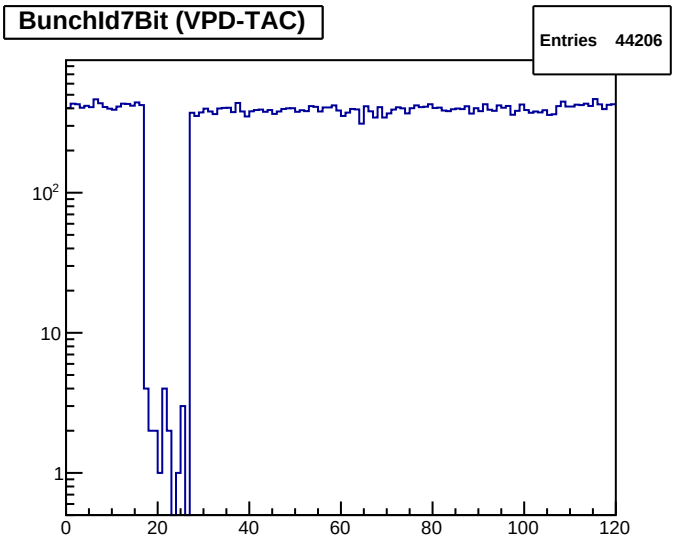
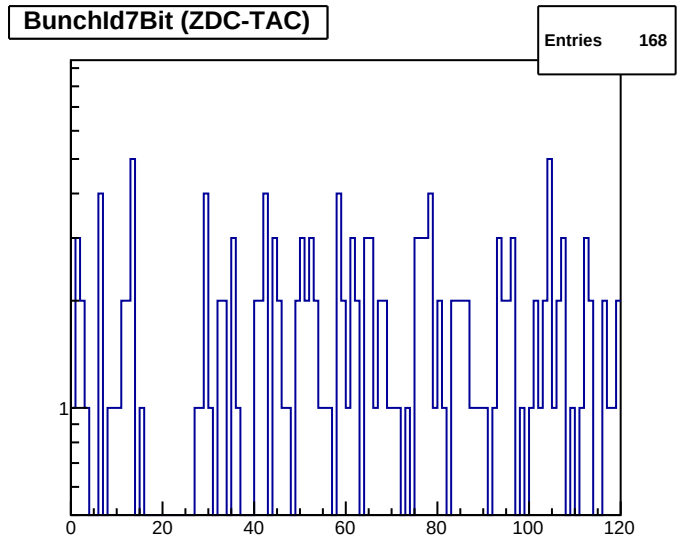
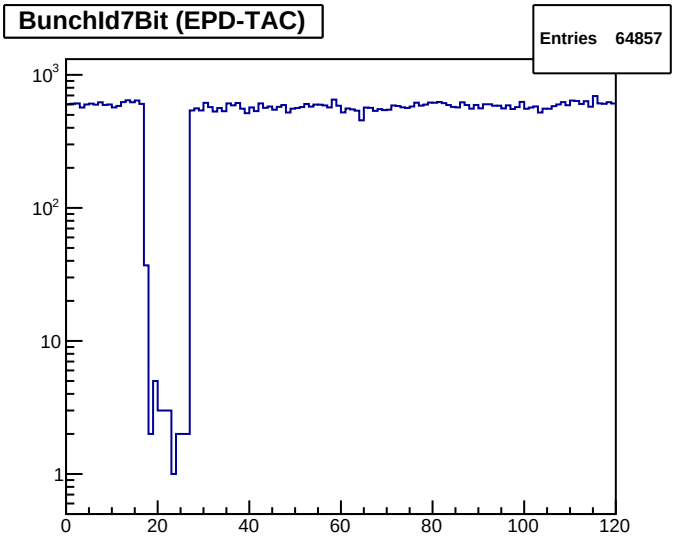
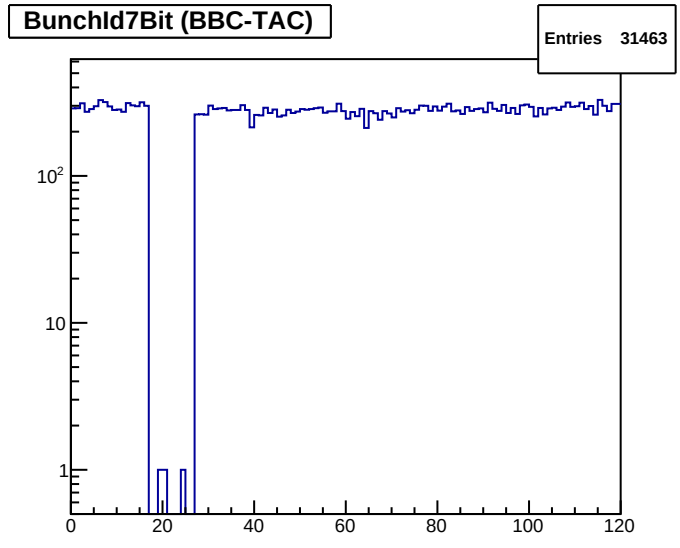
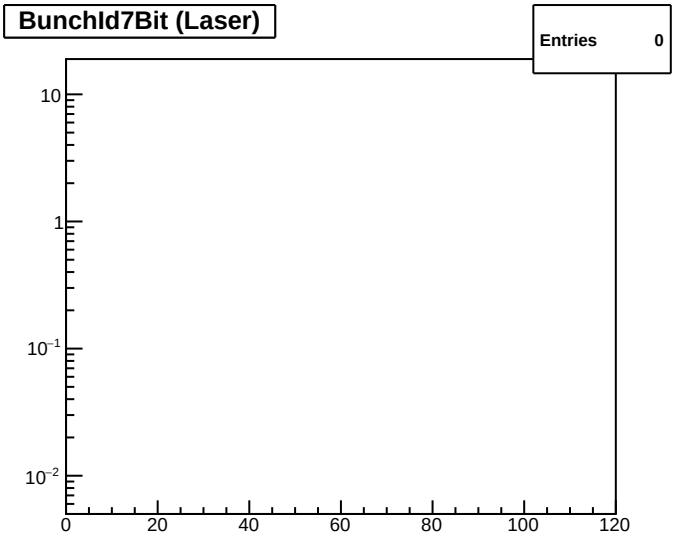
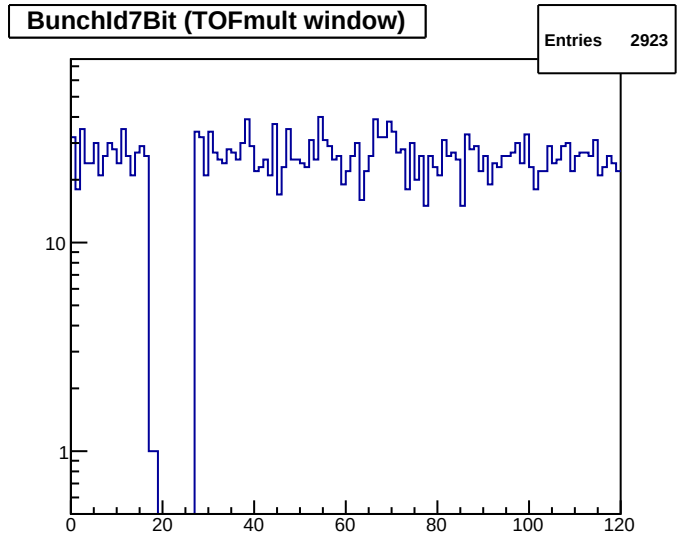

BunchId7Bit (VPD-TAC)
Entries 44206
10^2
10
1
0
20
40
60
80
100
120

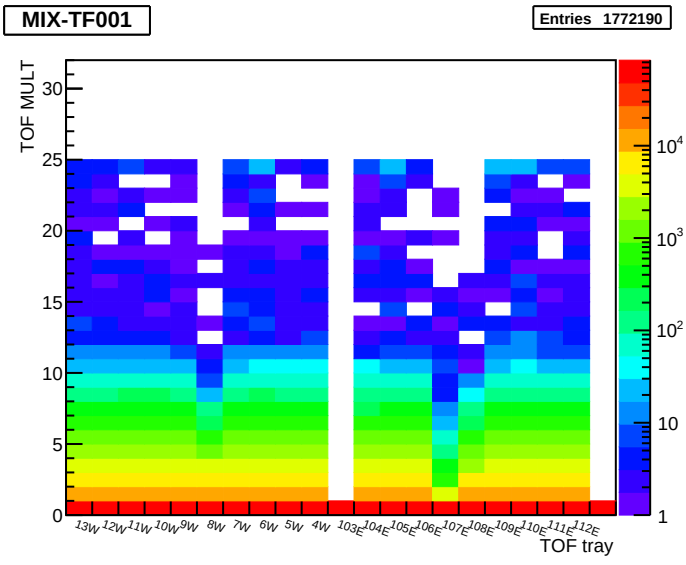

BunchId7Bit (ZDC-TAC)
Entries 168
1
0
20
40
60
80
100
120

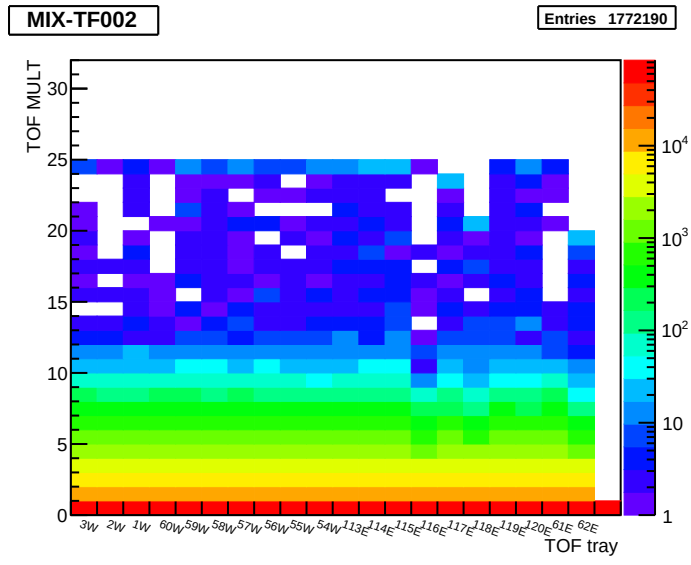

BunchId7Bit (EPD-TAC)
Entries 64857
10^3
10^2
10
1
0
20
40
60
80
100
120

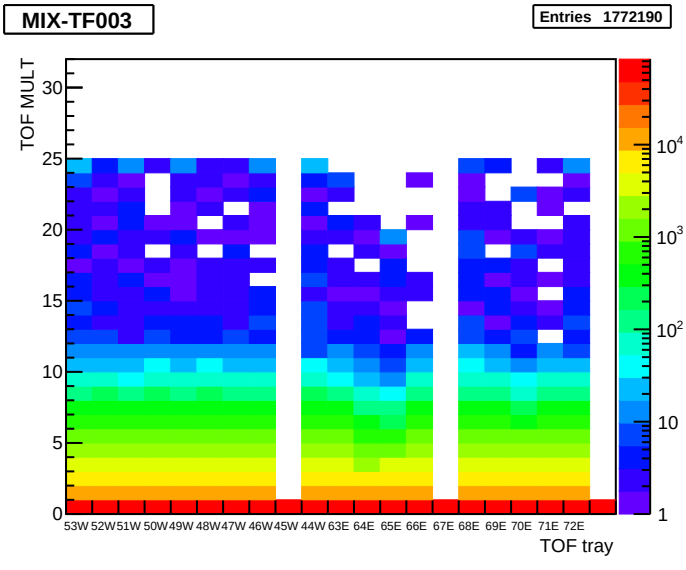

BunchId7Bit (BBC-TAC)
Entries 31463
10^2
10
1
0
20
40
60
80
100
120

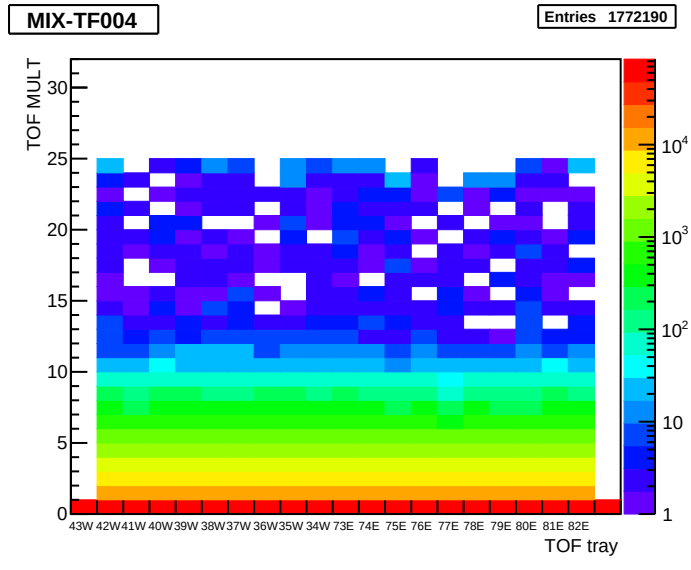

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

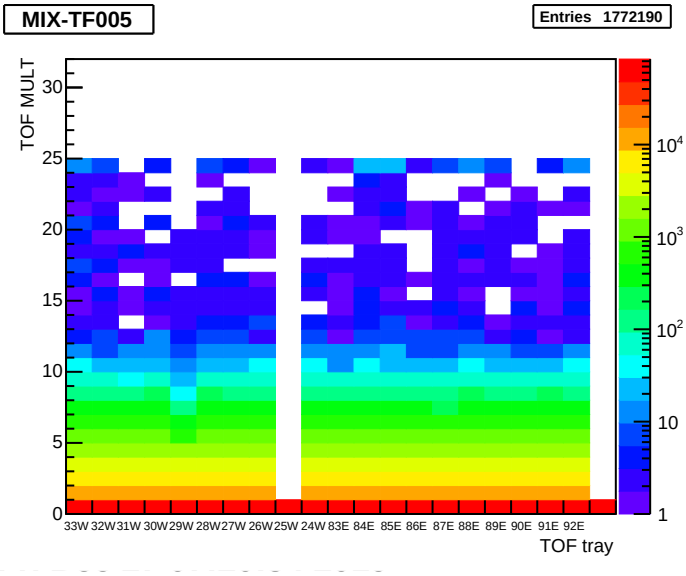

BunchId7Bit (TOFmult window)
Entries 2923
10
1
0
20
40
60
80
100
120

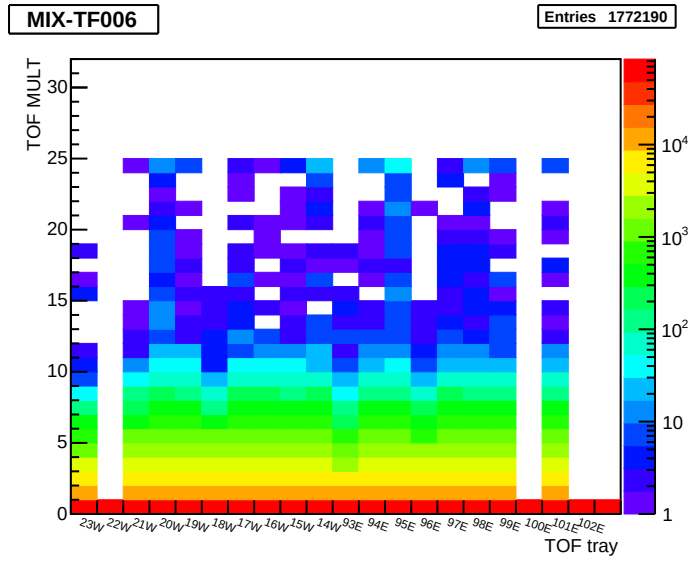

MIX-TF001
Entries 1772190
TOF MULT
TOF tray

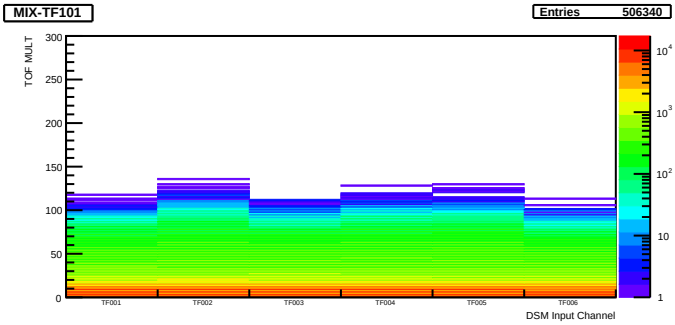

MIX-TF002
Entries 1772190
TOF MULT
TOF tray

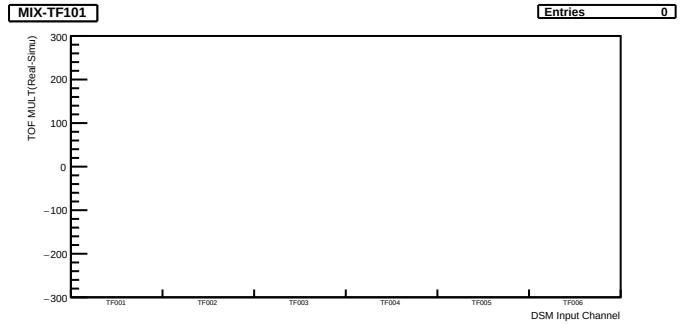

MIX-TF003
Entries 1772190
TOF MULT
TOF tray

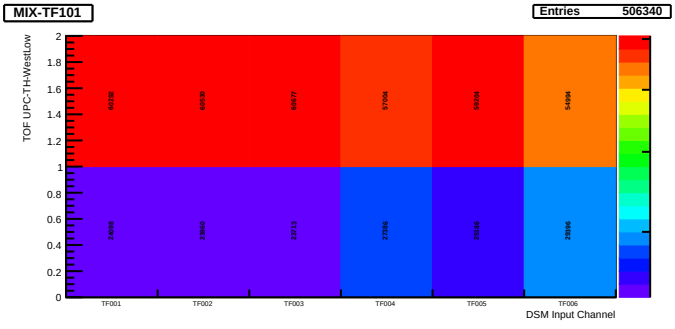

MIX-TF004
Entries 1772190
TOF MULT
TOF tray

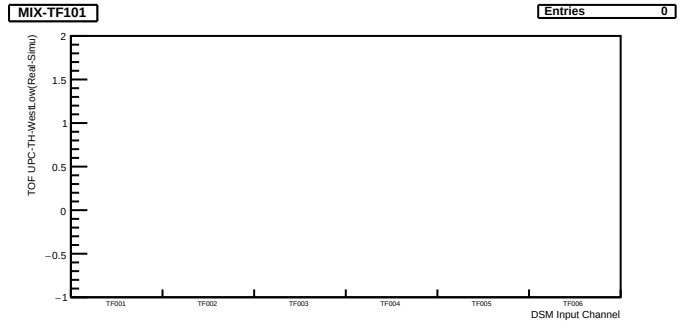

MIX-TF005
Entries 1772190
TOF MULT
TOF tray

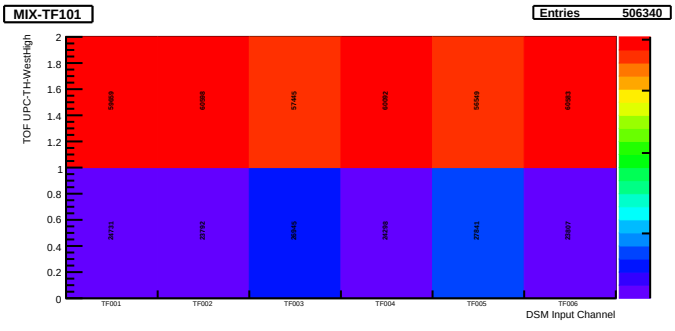

MIX-TF006
Entries 1772190
TOF MULT
TOF tray

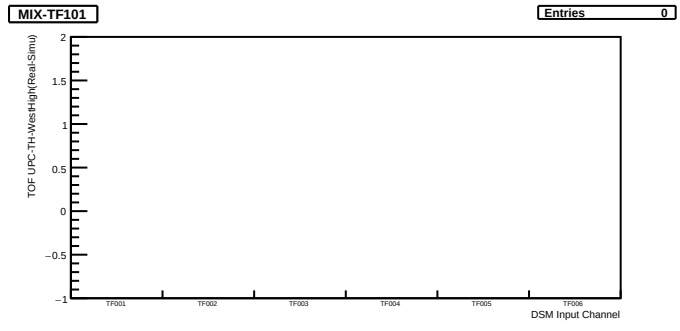

MIX-TF101
Entries 506340
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

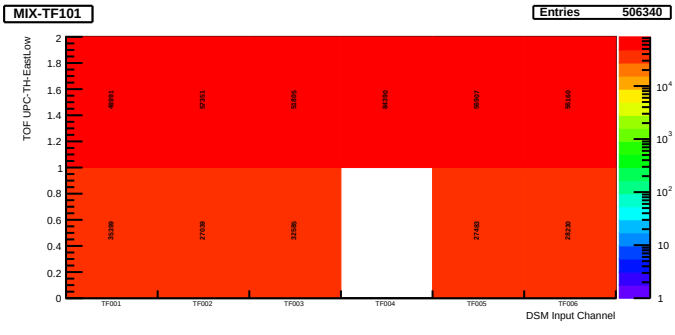

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

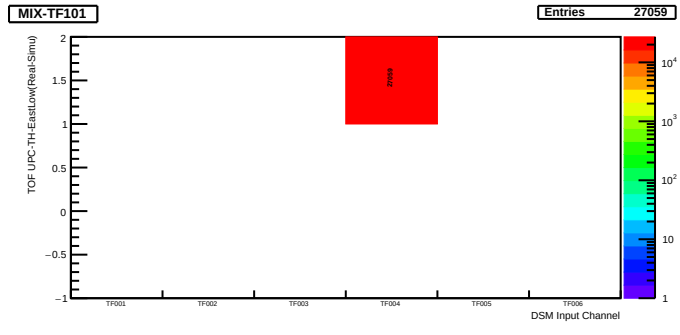

MIX-TF101
Entries 506340
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

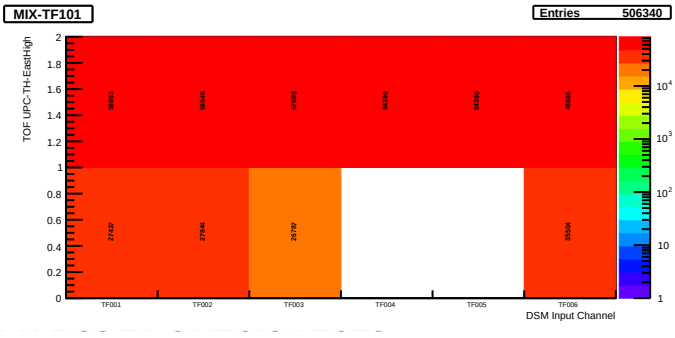

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

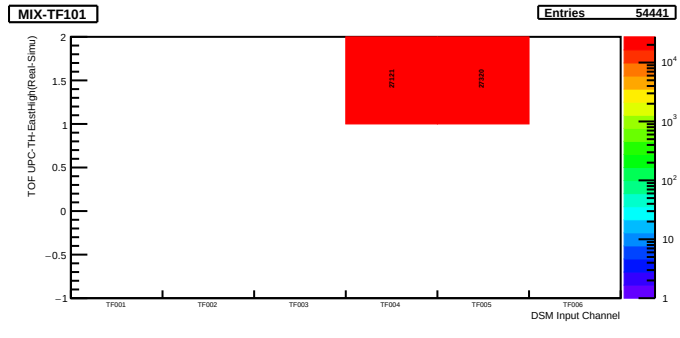

MIX-TF101
Entries 506340
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

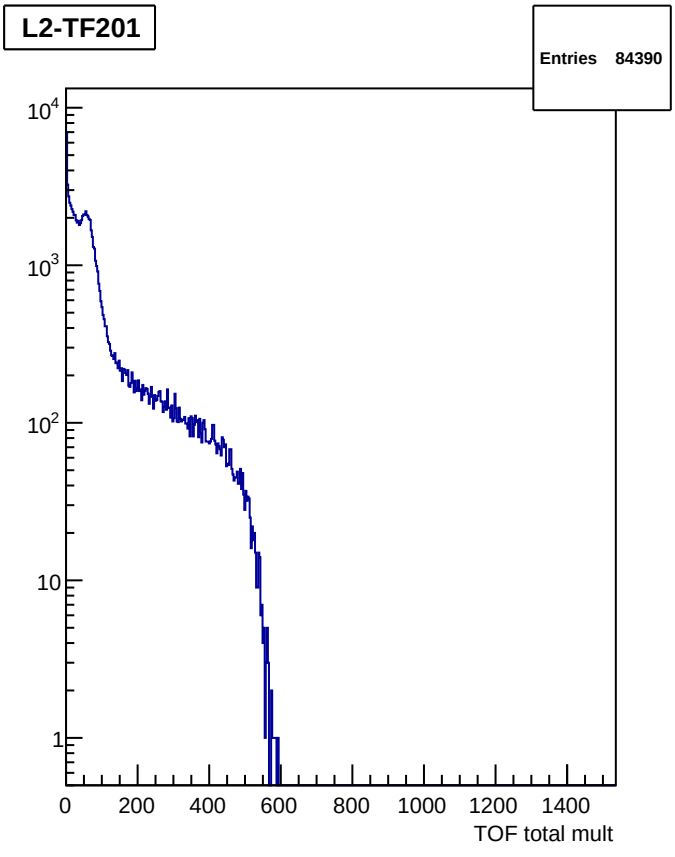

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

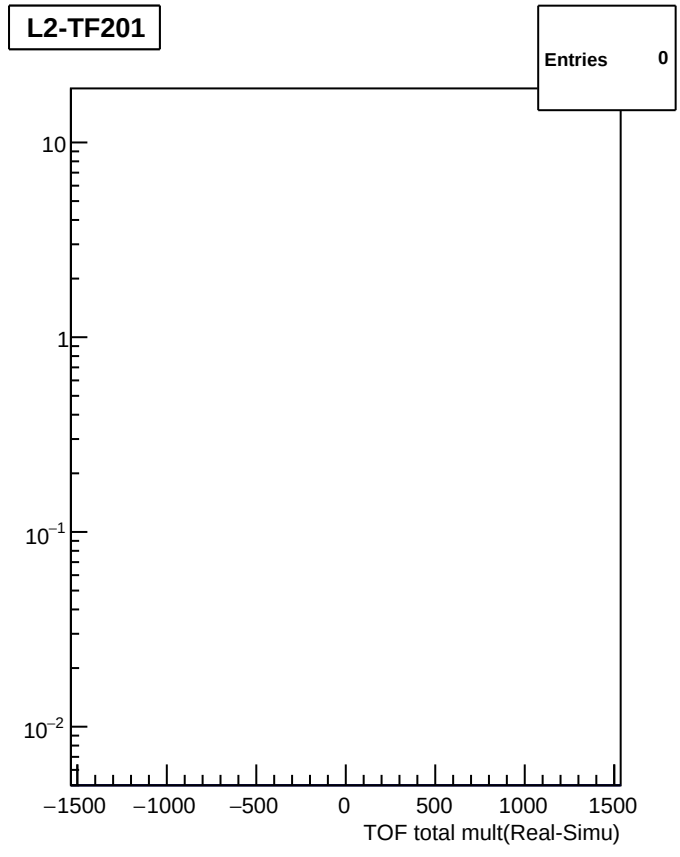

MIX-TF101
Entries 506340
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

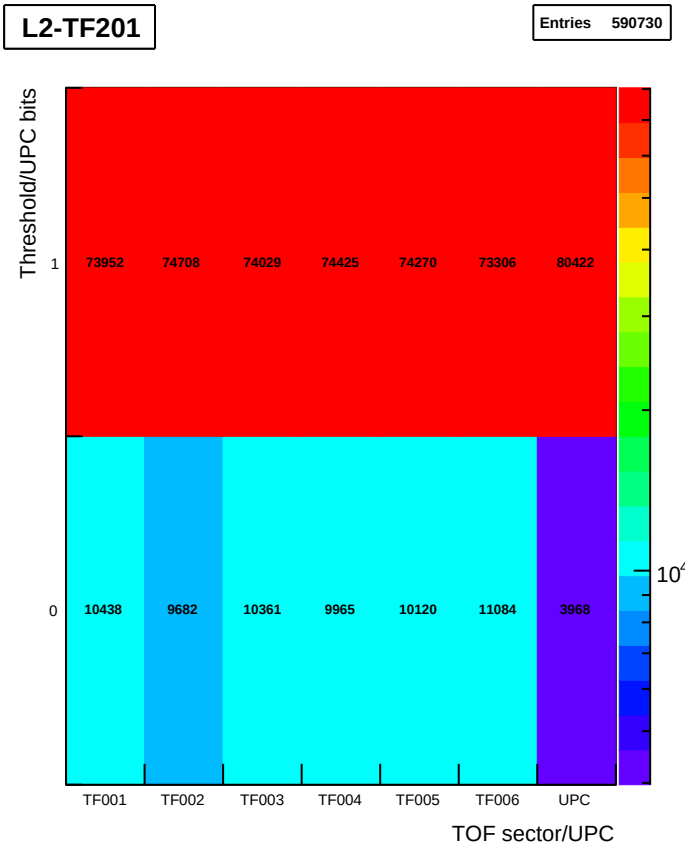

MIX-TF101
Entries 27059
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

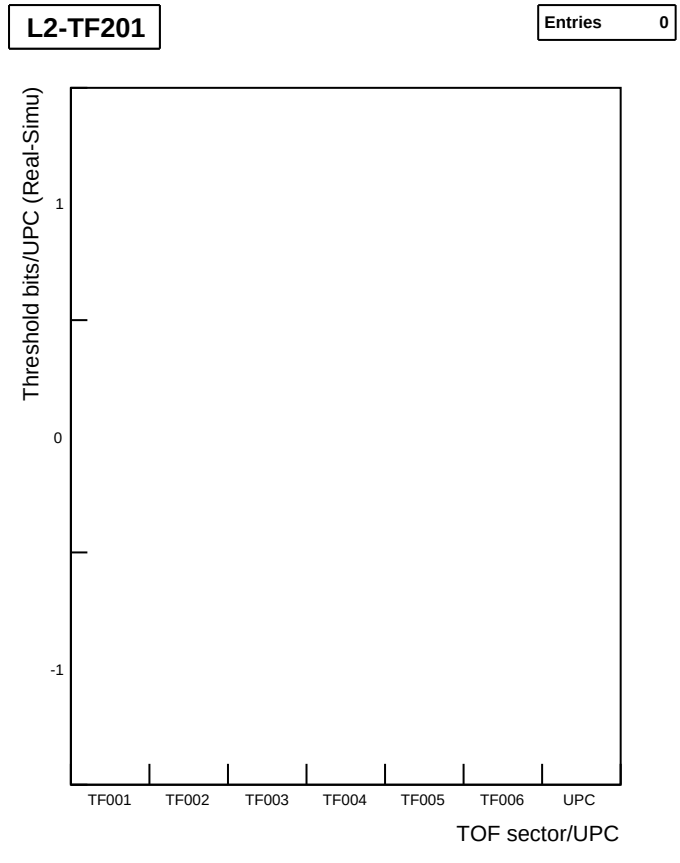

MIX-TF101
Entries 506340
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

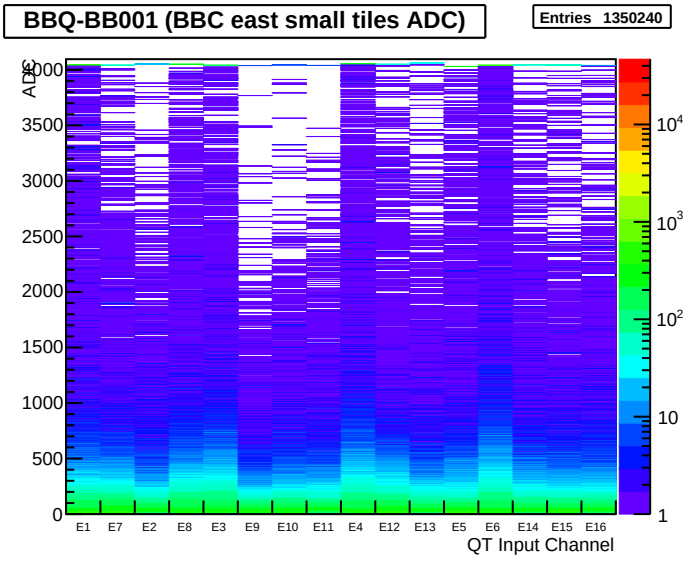

MIX-TF101
Entries 54441
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

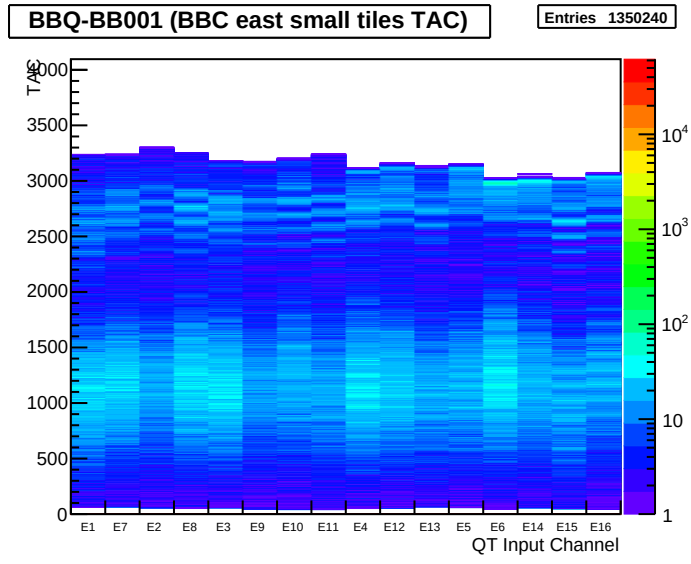

L2-TF201
Entries 84390
TOF total mult

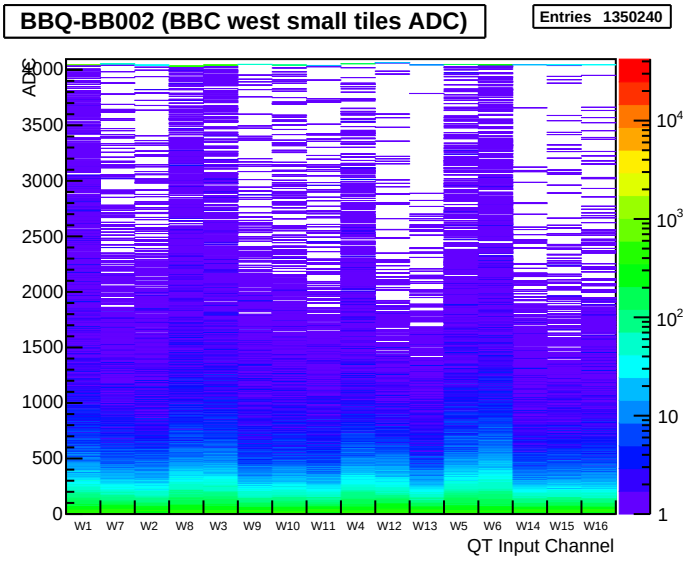

L2-TF201
Entries 0
TOF total mult(Real-Simu)

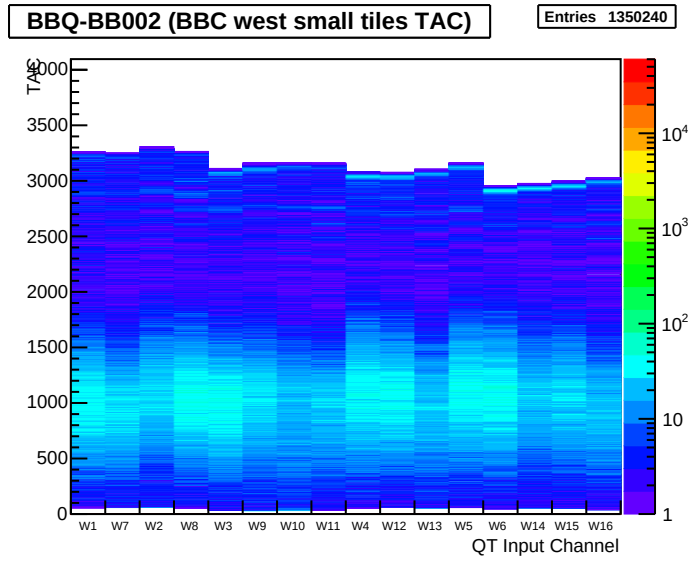

L2-TF201
Entries 590730
Threshold/UPC bits
73952
74708
74029
74425
74270
73306
80422
10438
9682
10361
9965
10120
11084
3968
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

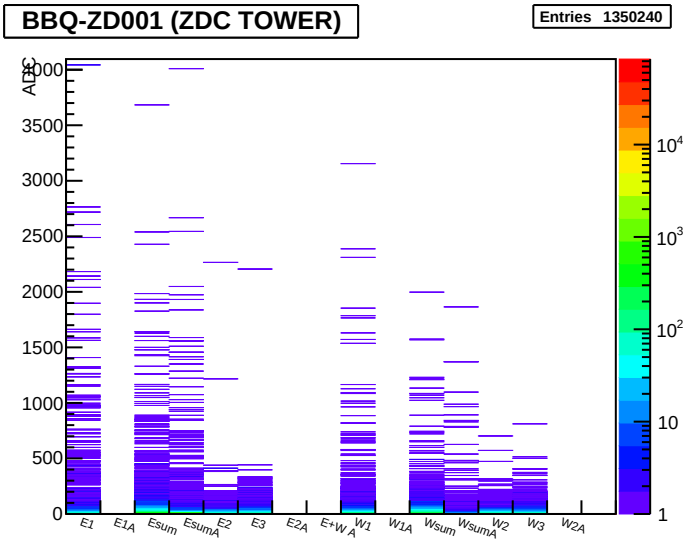

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

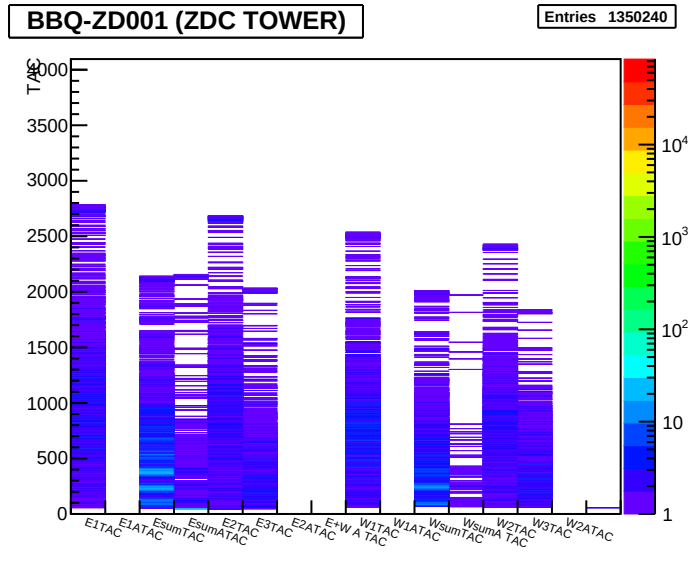

BBQ-BB001 (BBC east small tiles ADC)
Entries 1350240
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

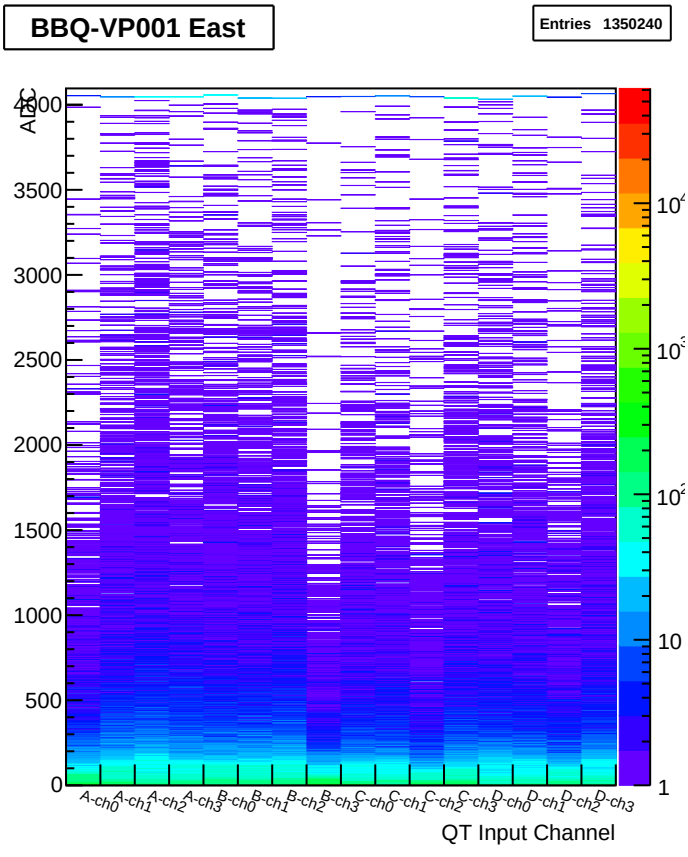

BBQ-BB001 (BBC east small tiles TAC)
Entries 1350240
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

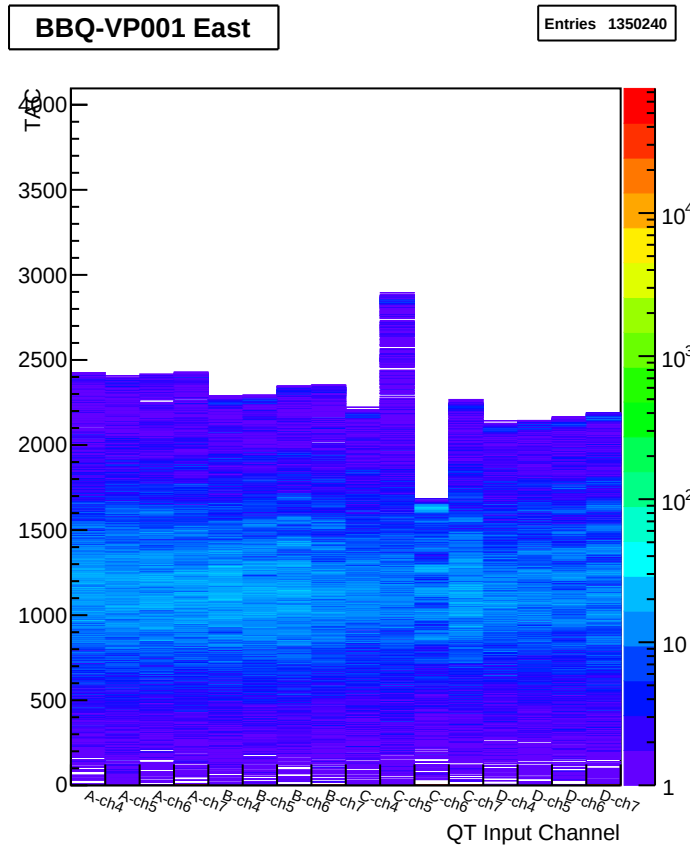

BBQ-BB002 (BBC west small tiles ADC)
Entries 1350240
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

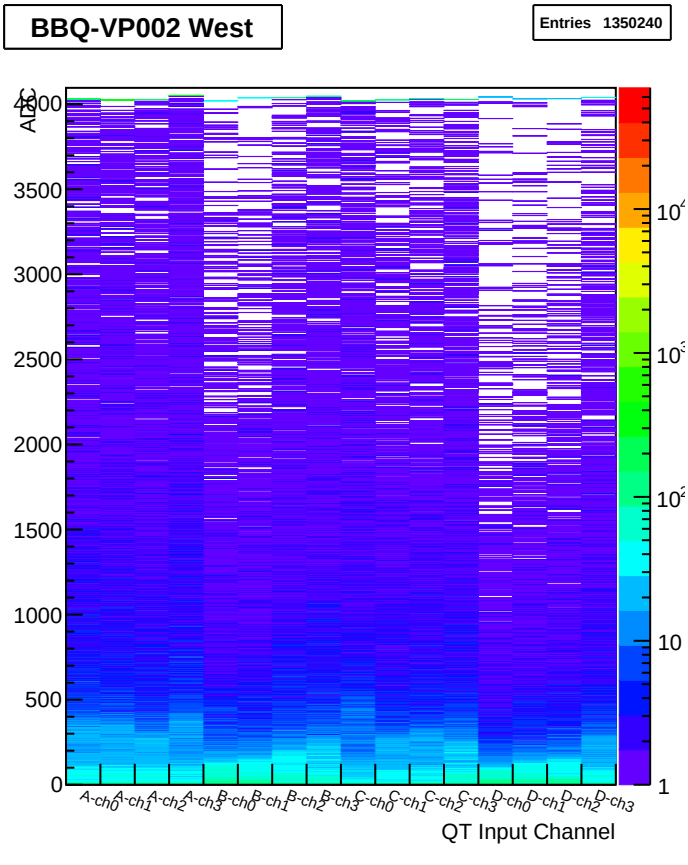

BBQ-BB002 (BBC west small tiles TAC)
Entries 1350240
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

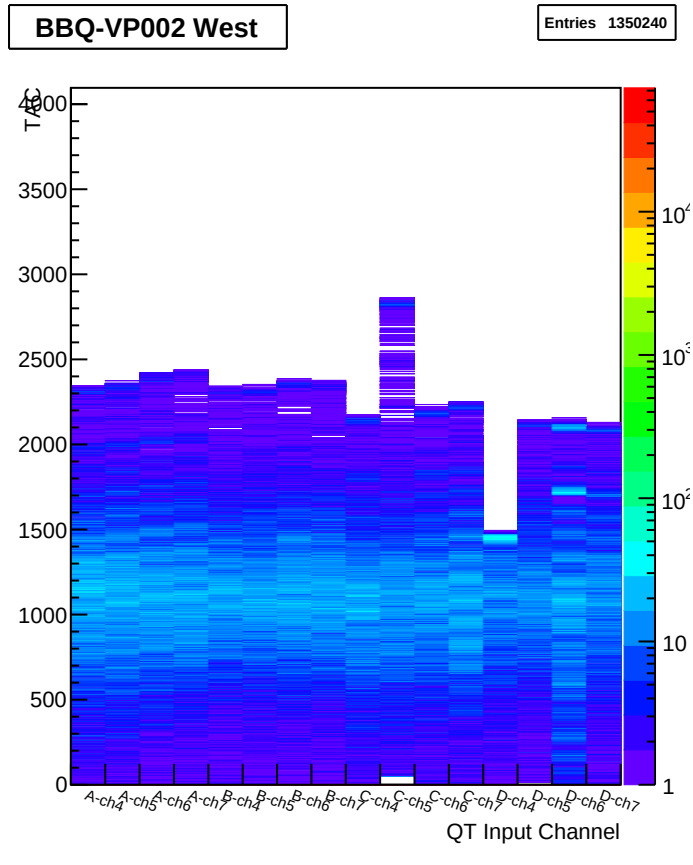

BBQ-ZD001 (ZDC TOWER)
Entries 1350240
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

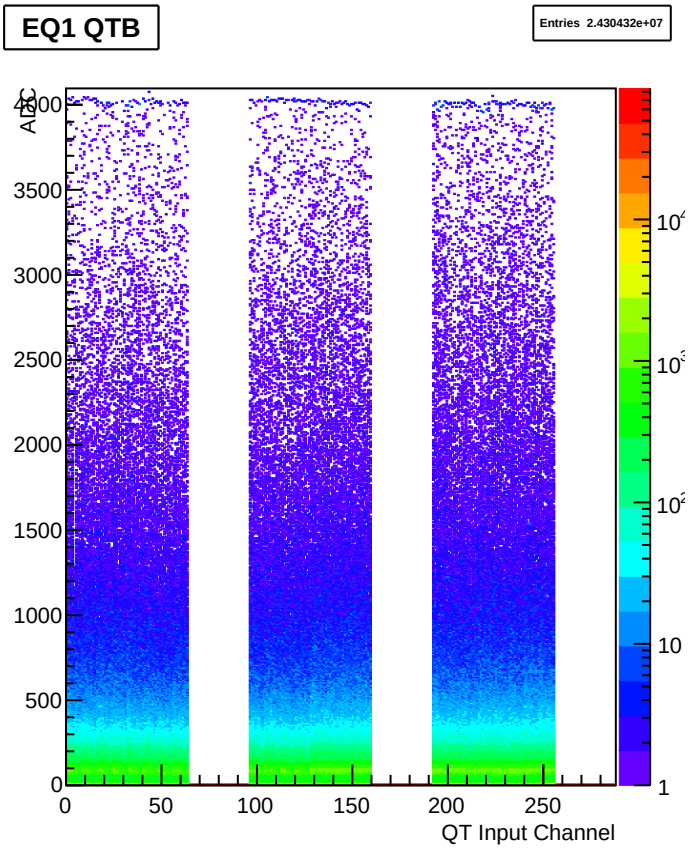

BBQ-ZD001 (ZDC TOWER)
Entries 1350240
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

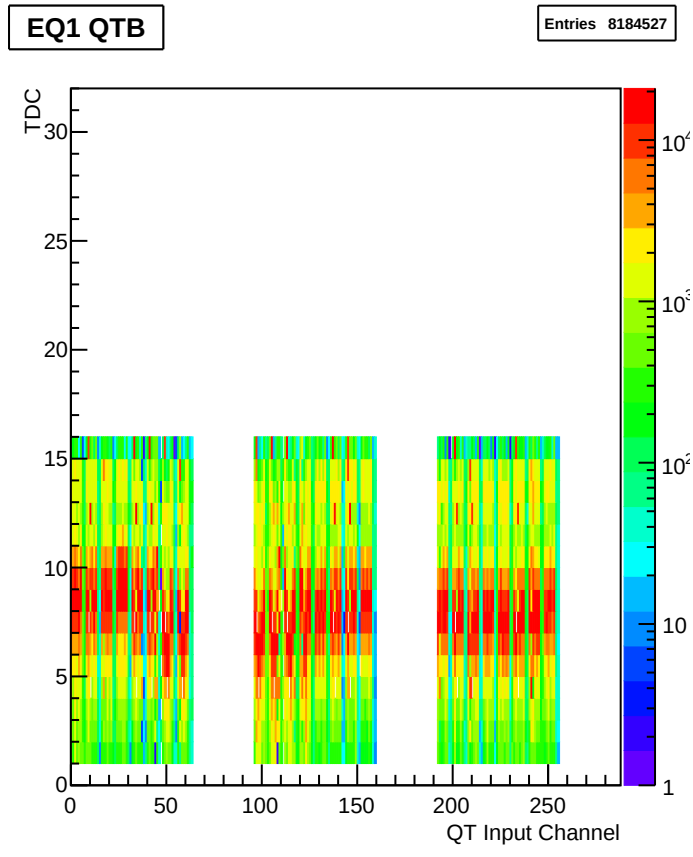

BBQ-VP001 East
Entries 1350240
ADC
QT Input Channel

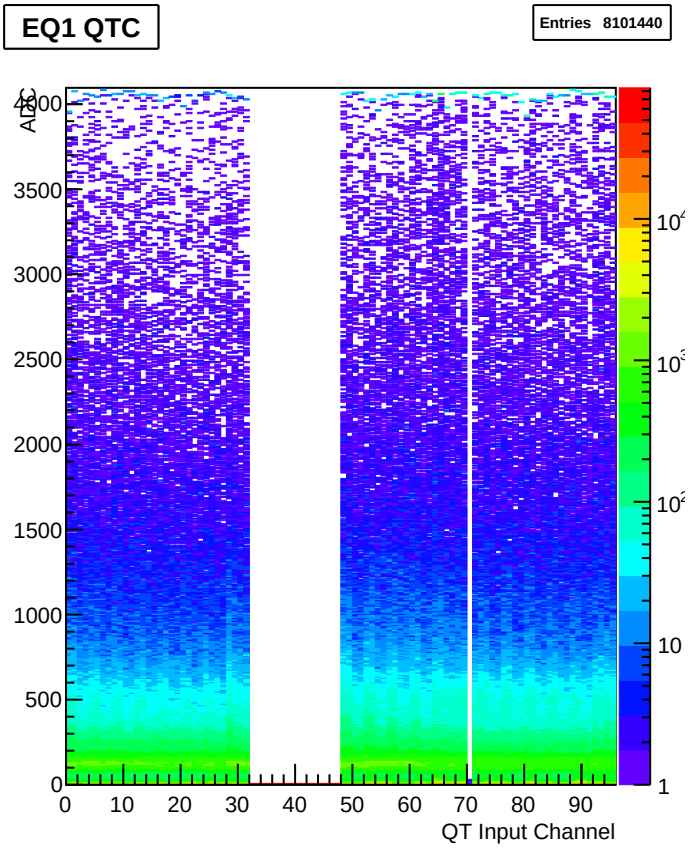

BBQ-VP001 East
Entries 1350240
TADC
QT Input Channel

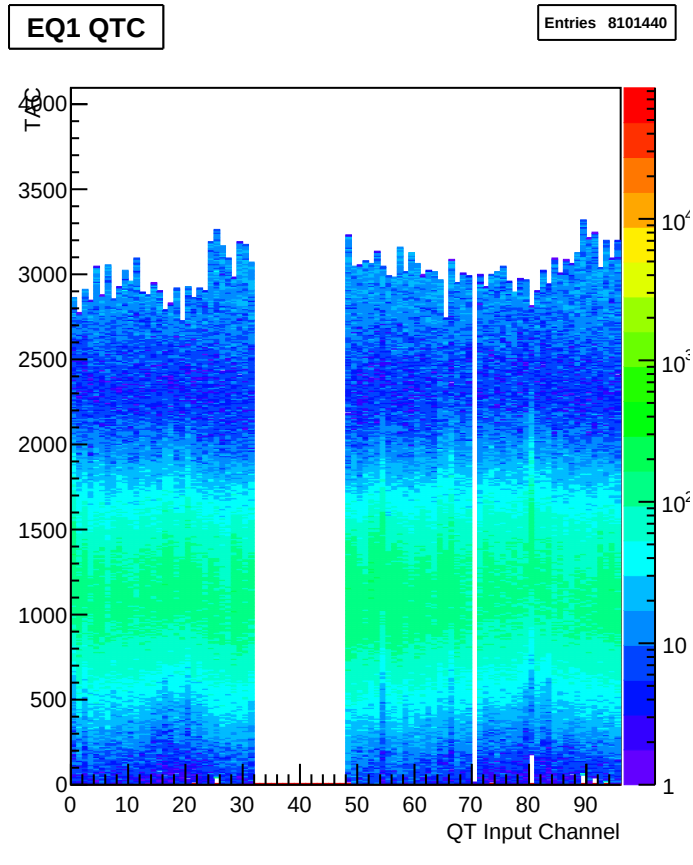

BBQ-VP002 West
Entries 1350240
ADC
QT Input Channel

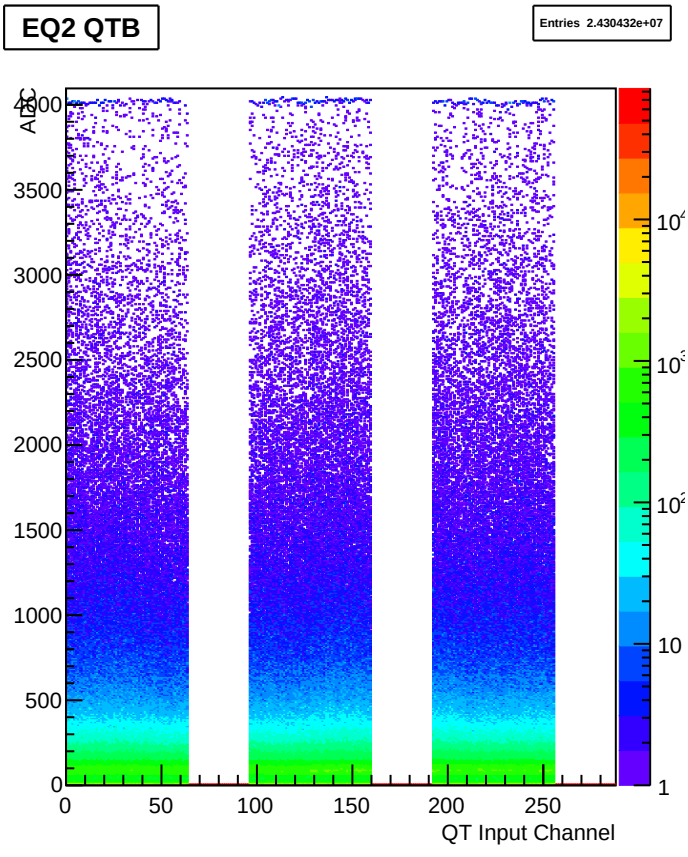

BBQ-VP002 West
Entries 1350240
TADC
QT Input Channel

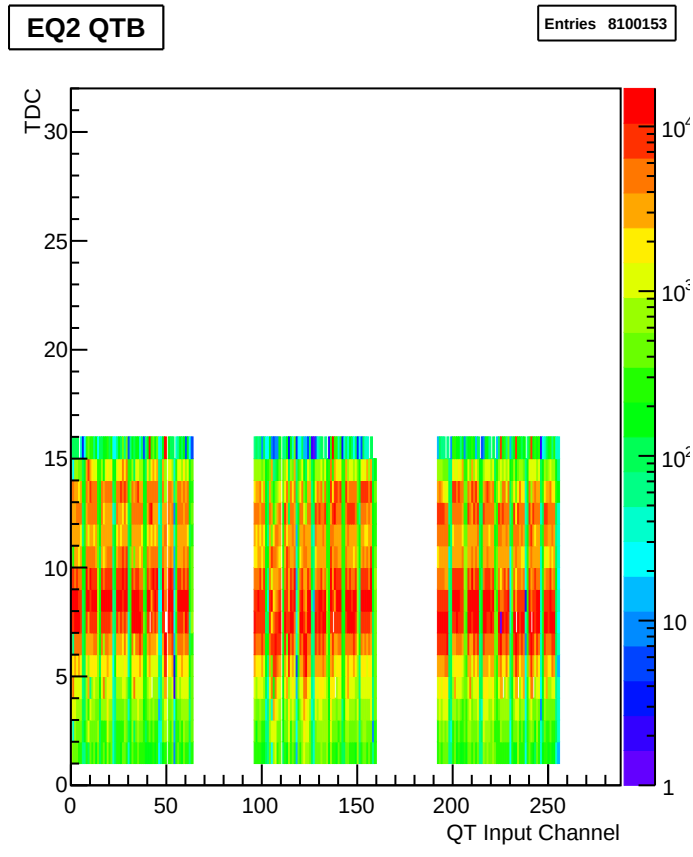

EQ1 QTB
Entries 2.430432e+07
ADC
QT Input Channel

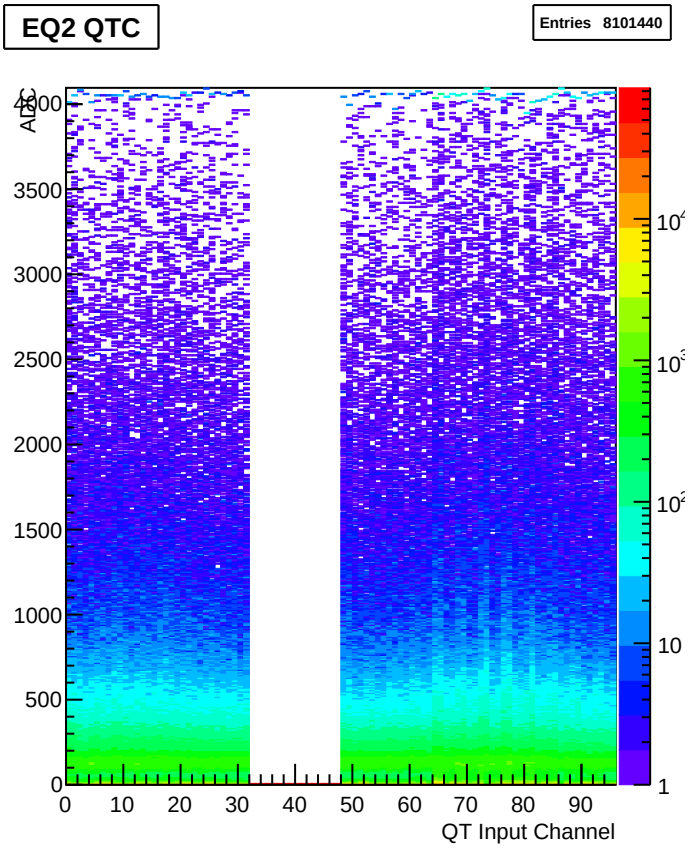

EQ1 QTB
Entries 8184527
TDC
QT Input Channel

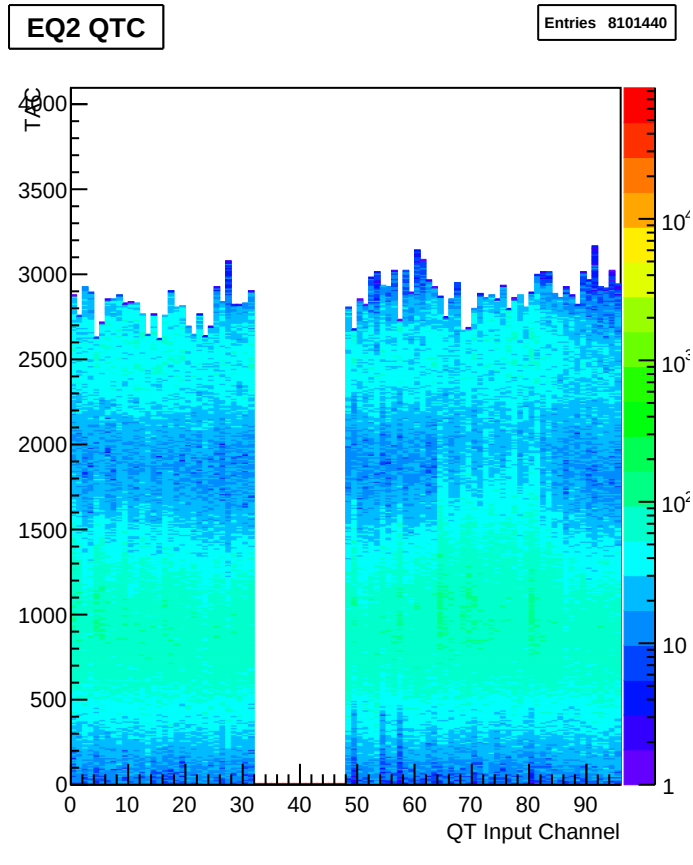

EQ1 QTC
Entries 8101440
ADC
QT Input Channel

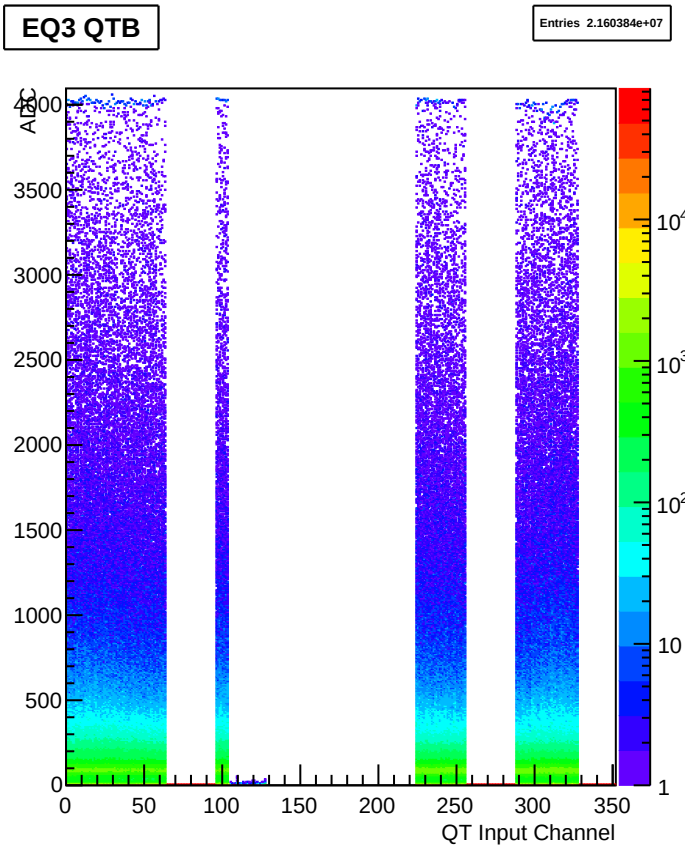

EQ1 QTC
Entries 8101440
TADC
QT Input Channel

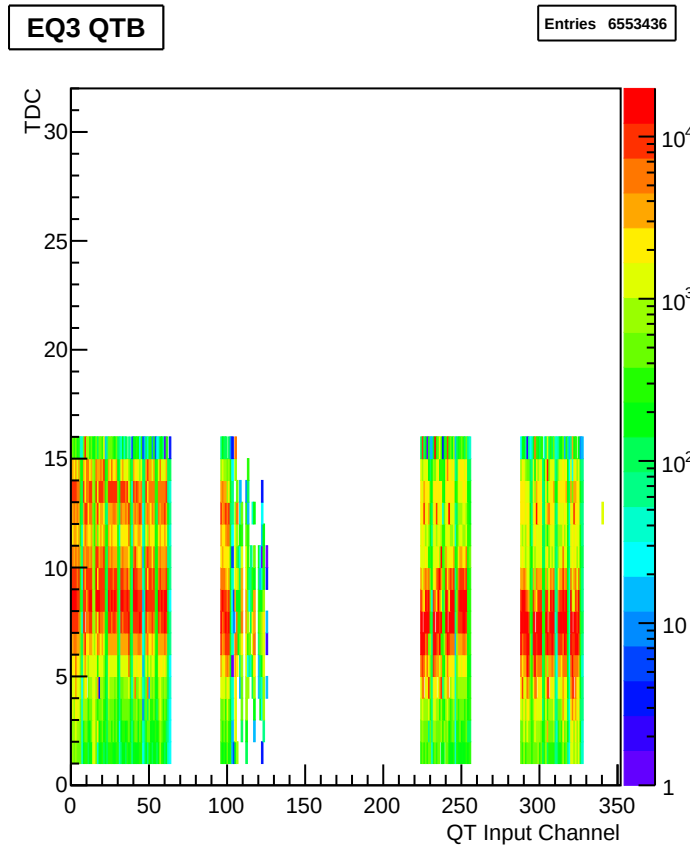

EQ2 QTB
Entries 2.430432e+07
ADC
QT Input Channel

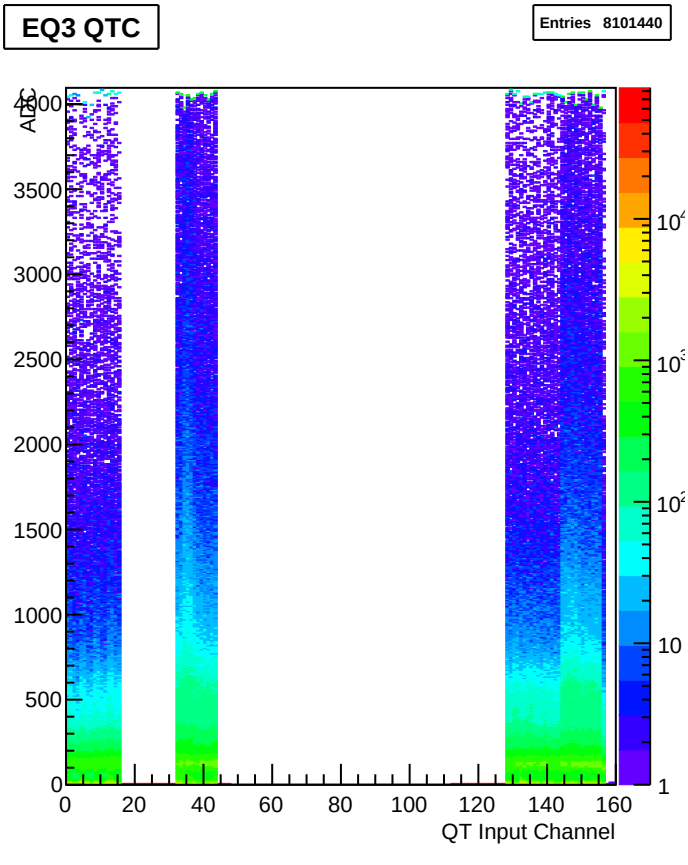

EQ2 QTB
Entries 8100153
TDC
QT Input Channel

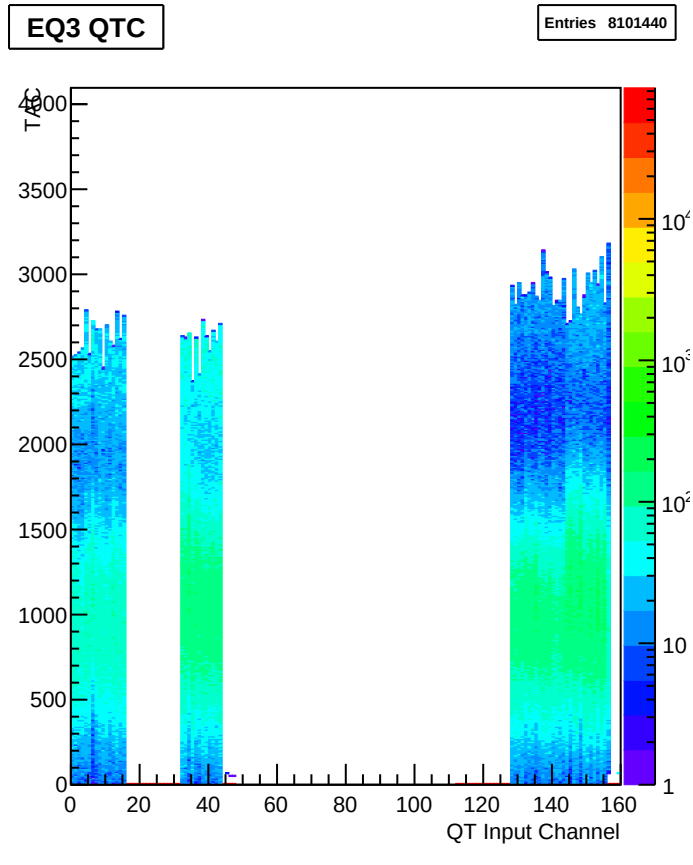

EQ2 QTC
Entries 8101440
ADC
QT Input Channel

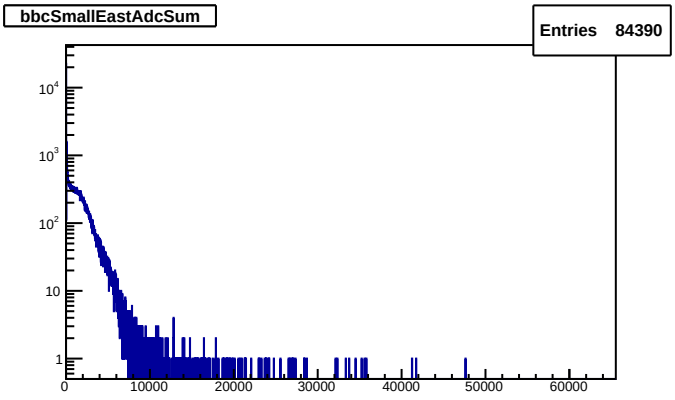

EQ2 QTC
Entries 8101440
TADC
QT Input Channel

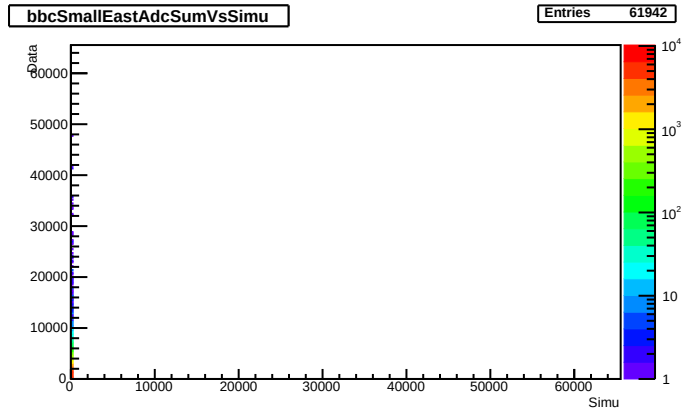

EQ3 QTB
Entries 2.160384e+07
ADC
QT Input Channel

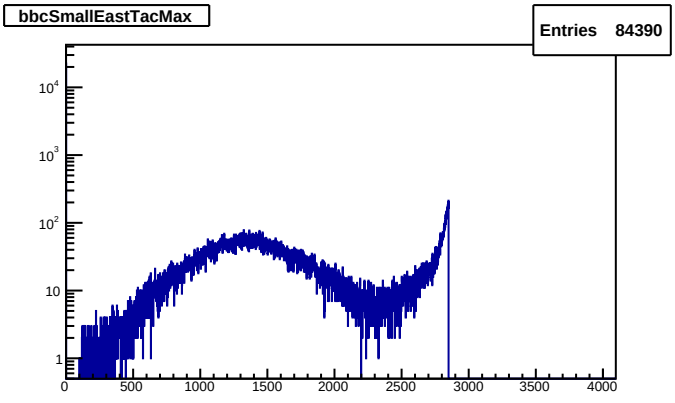

EQ3 QTB
Entries 6553436
TDC
QT Input Channel

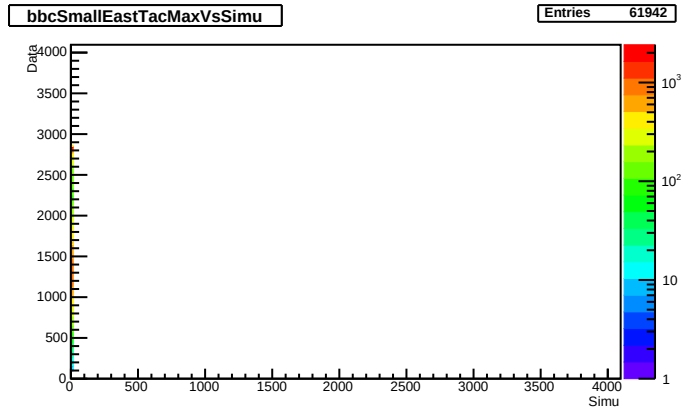

EQ3 QTC
Entries 8101440
ADC
QT Input Channel

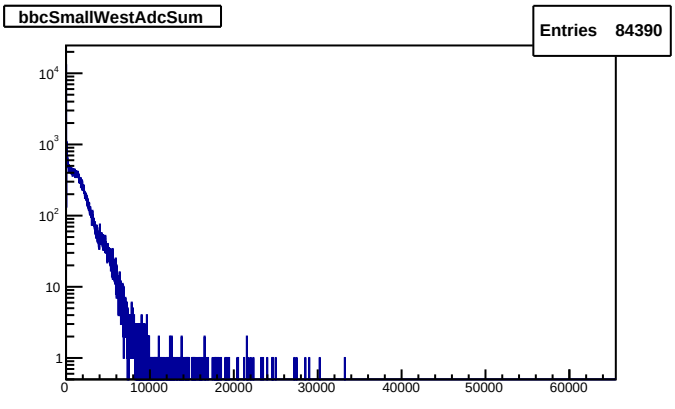

EQ3 QTC
Entries 8101440
TADC
QT Input Channel

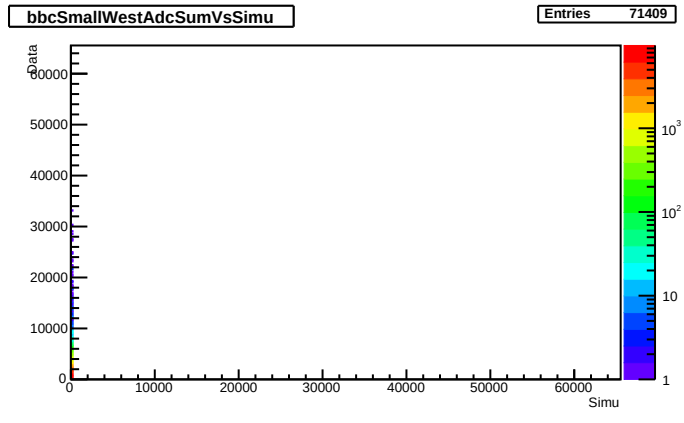

bbcSmallEastAdcSum
Entries 84390


bbcSmallEastAdcSumVsSimu
Entries 61942
Data
Simu


bbcSmallEastTacMax
Entries 84390


bbcSmallEastTacMaxVsSimu
Entries 61942
Data
Simu


bbcSmallWestAdcSum
Entries 84390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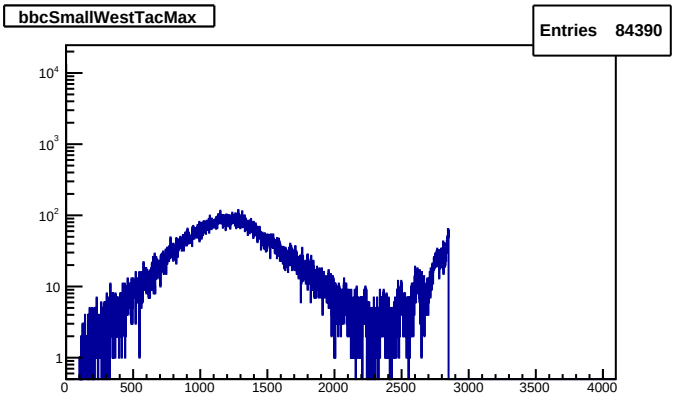
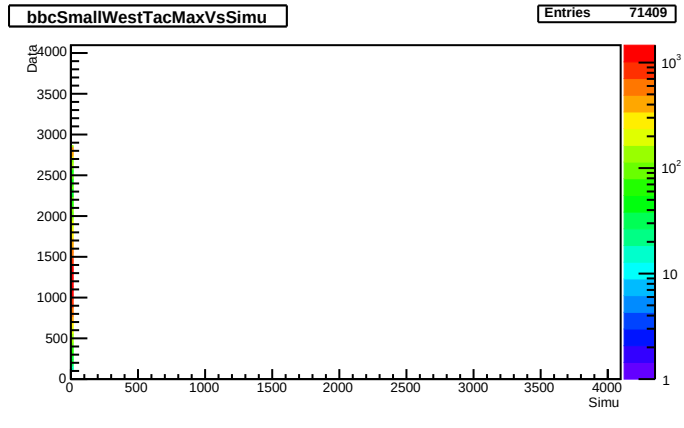
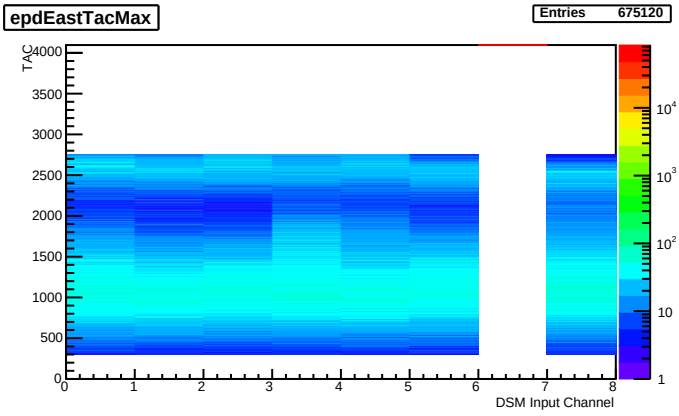
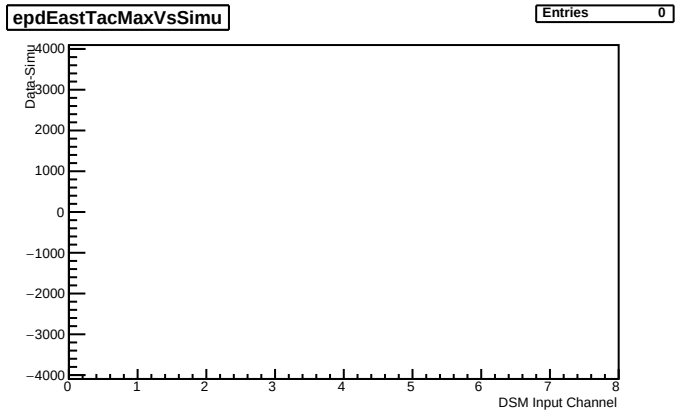
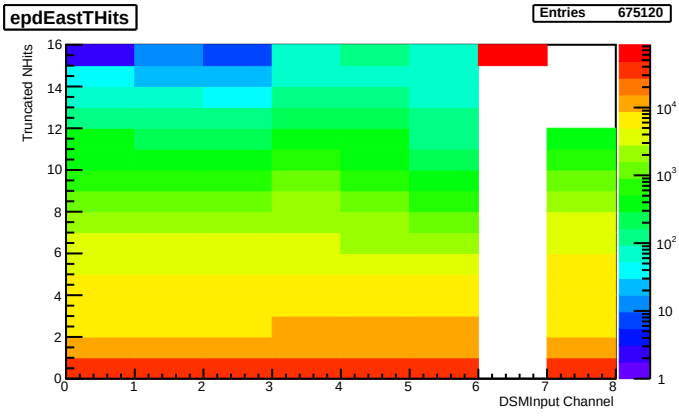
Entries 71409
Data
Simu

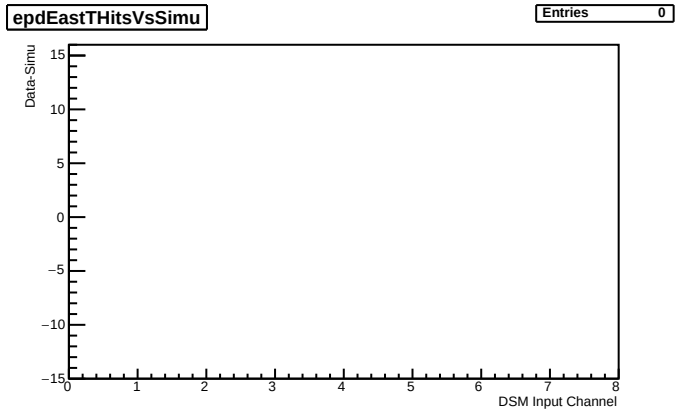

bbcSmallWestTacMax
Entries 84390


bbcSmallWestTacMaxVsSimu
Entries 71409
Data
Simu


epdEastTacMax
Entries 675120
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 675120
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
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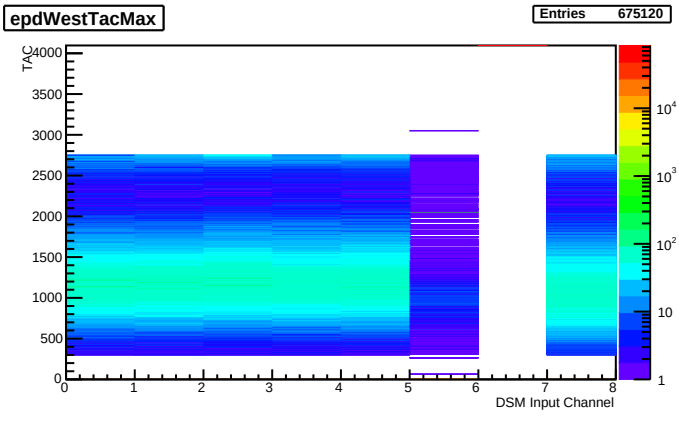
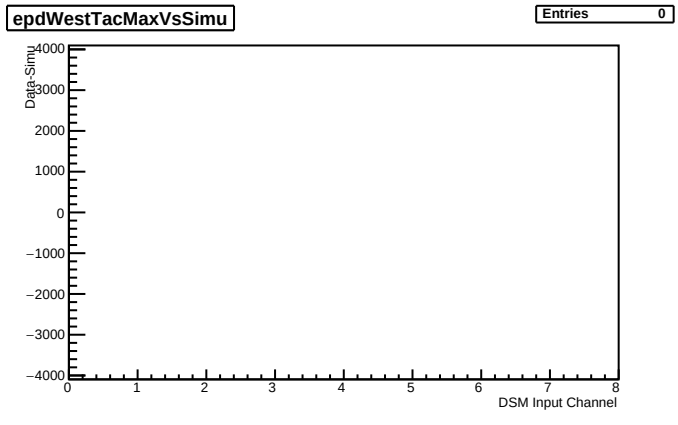
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 675120
TAC
DSM Input Channel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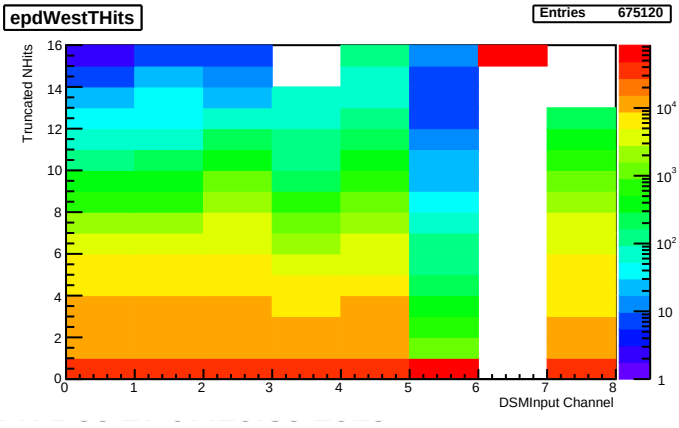
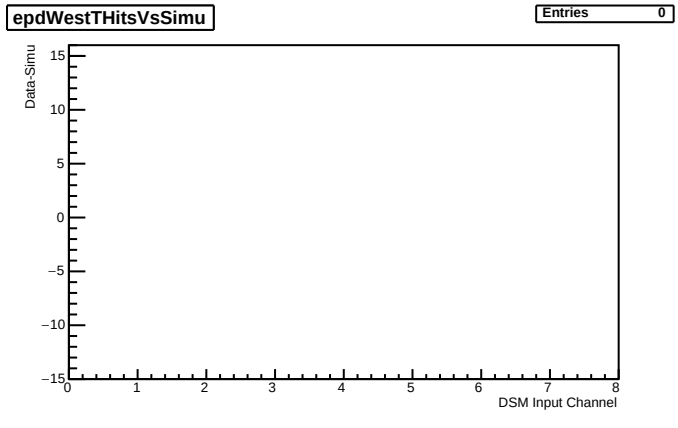
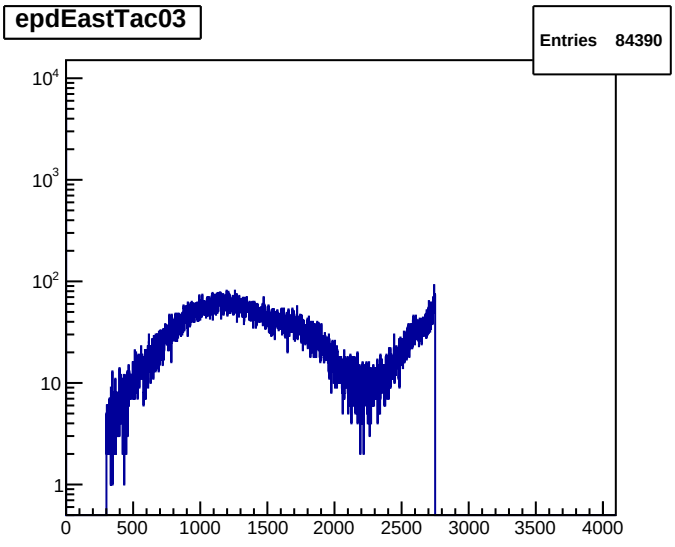
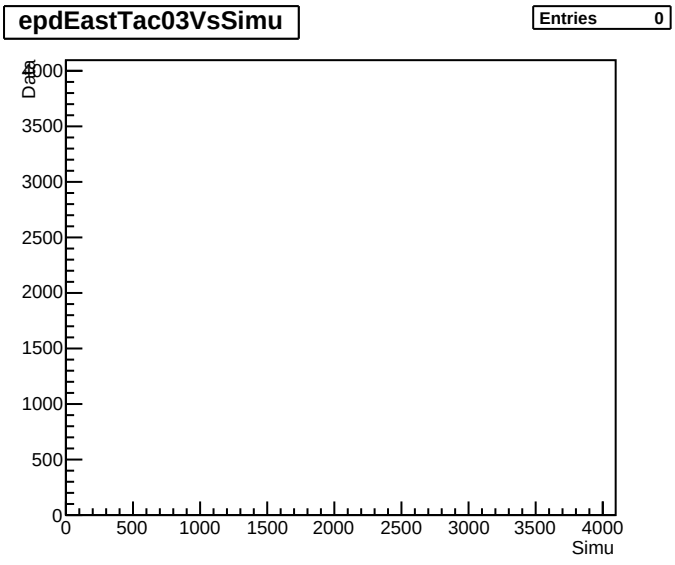
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 675120
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 84390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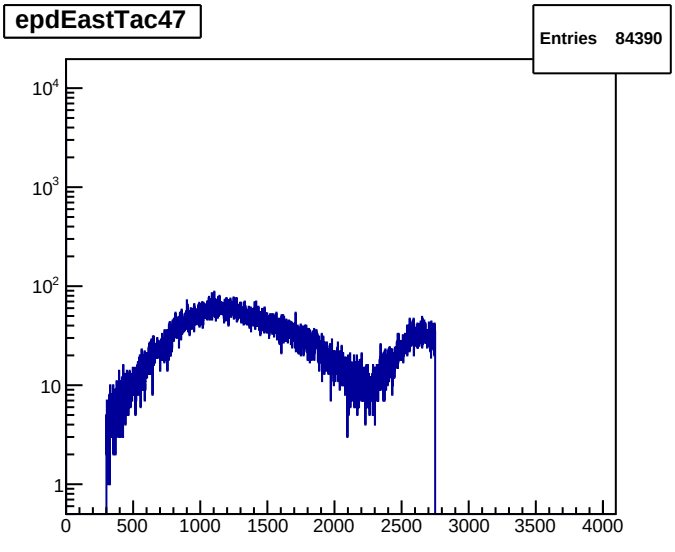
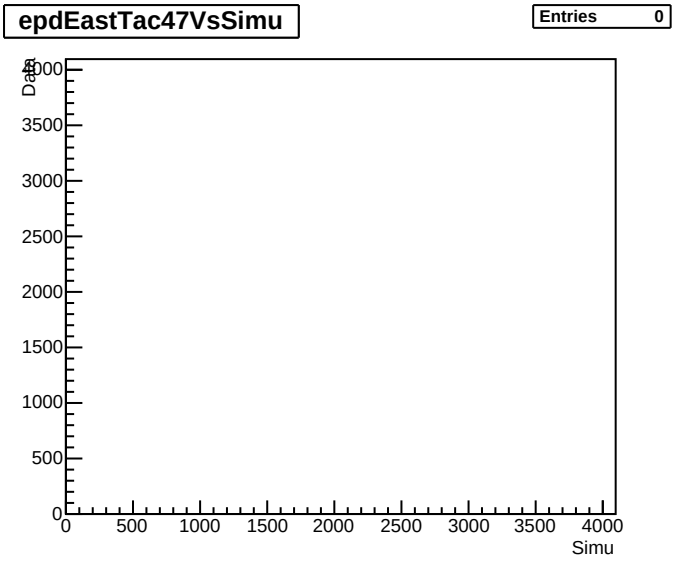
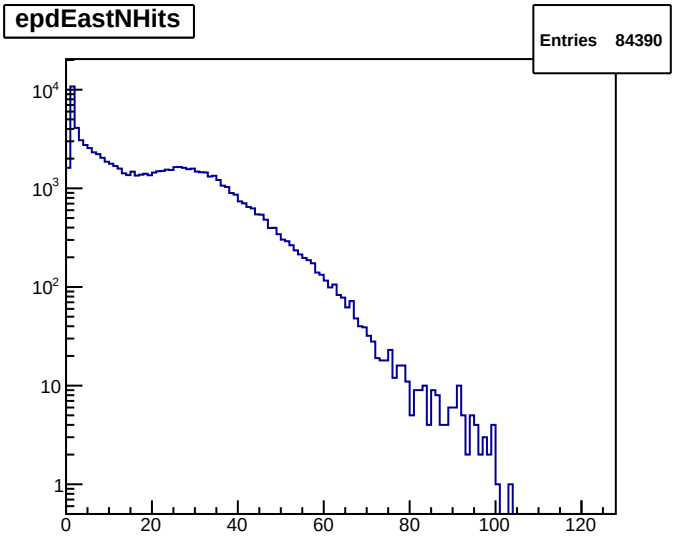
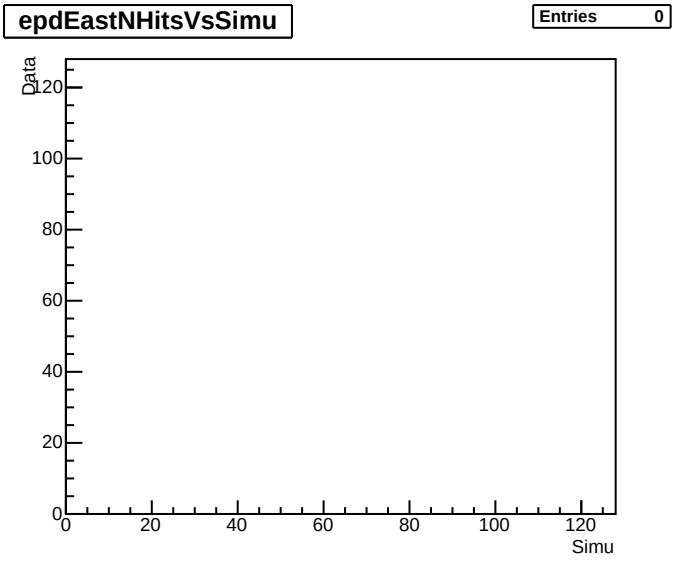
Entries 0
Data
Simu


epdEastTac47
Entries 84390


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 84390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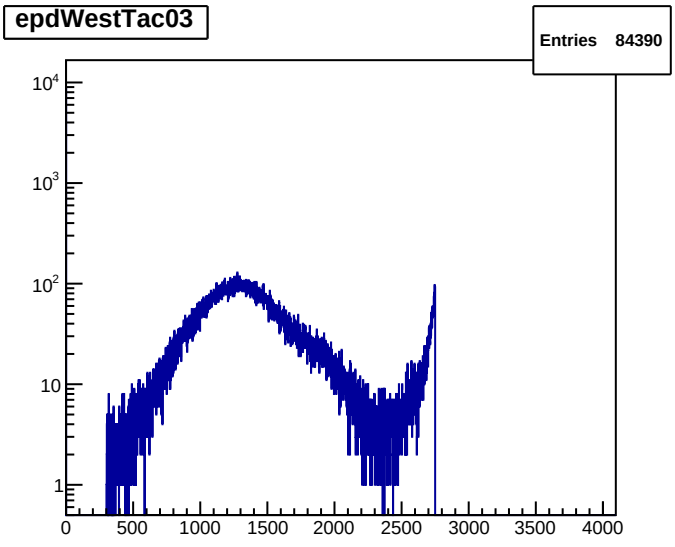
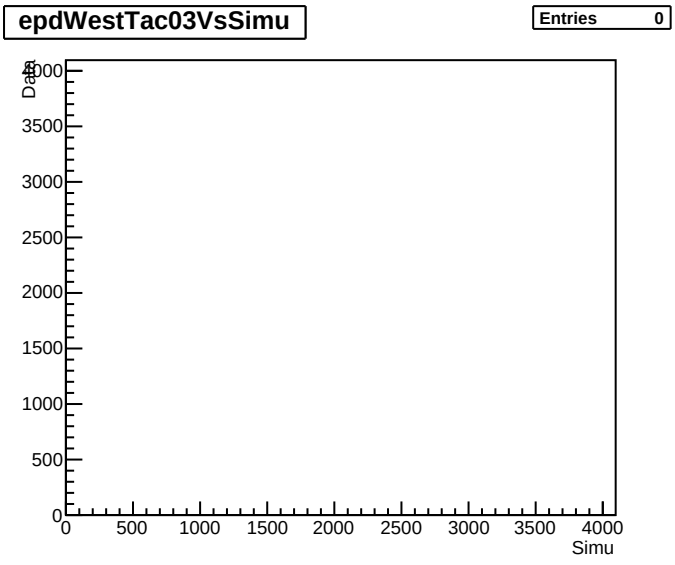
Entries 0
Data
Simu


epdWestTac03
Entries 84390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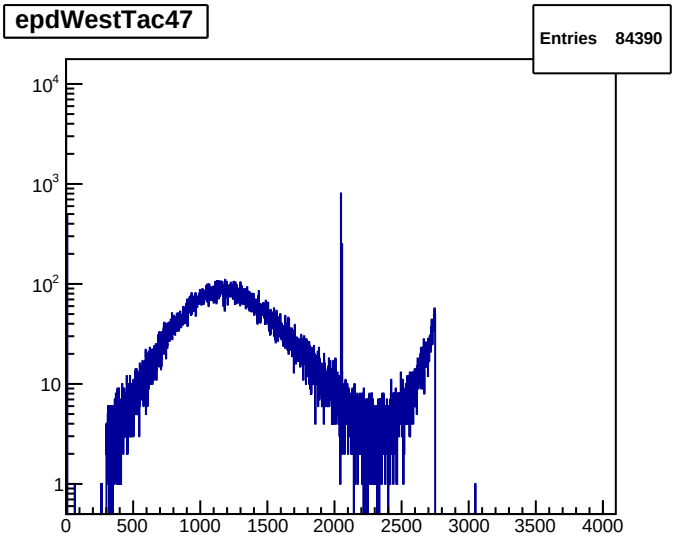
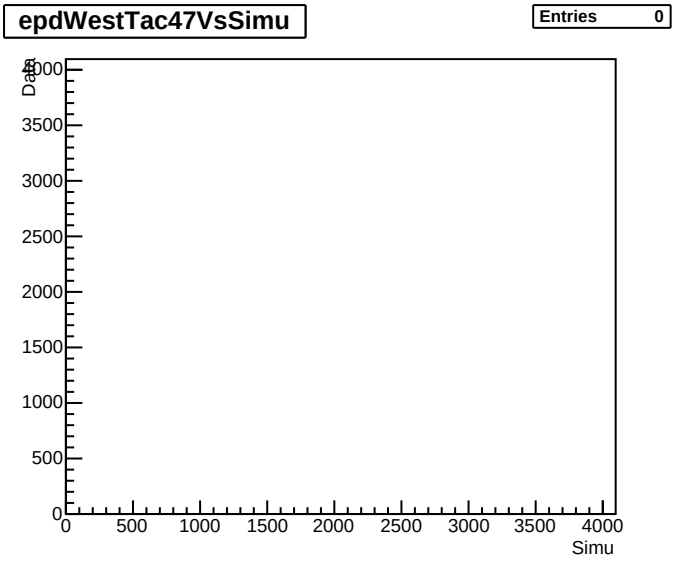
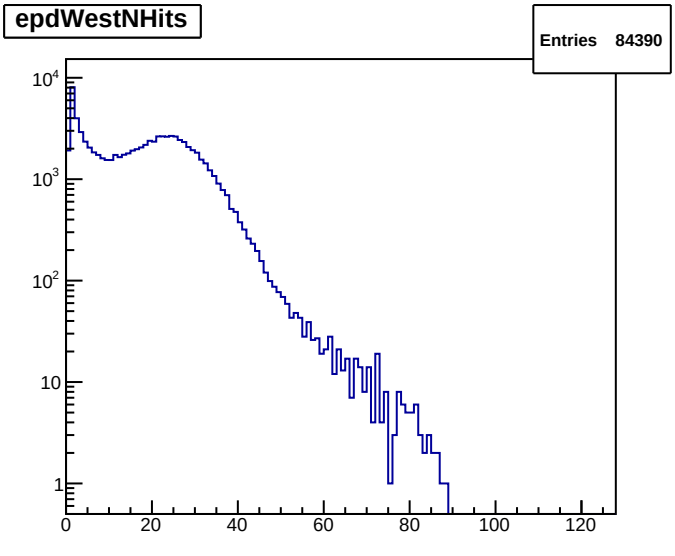
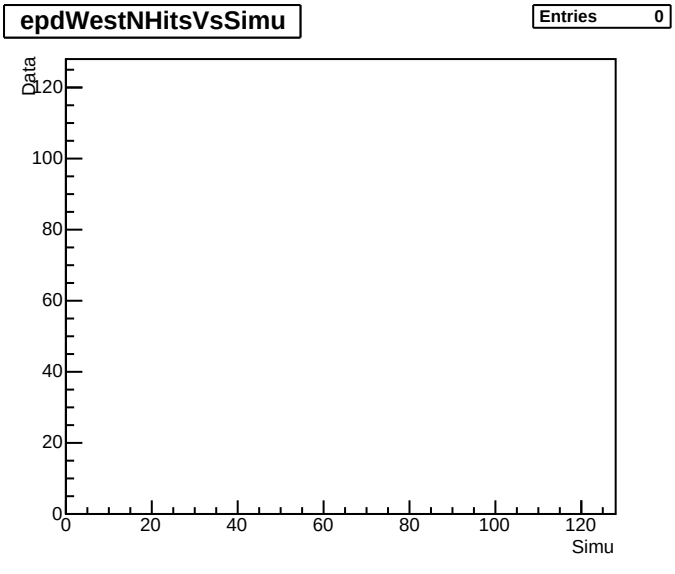
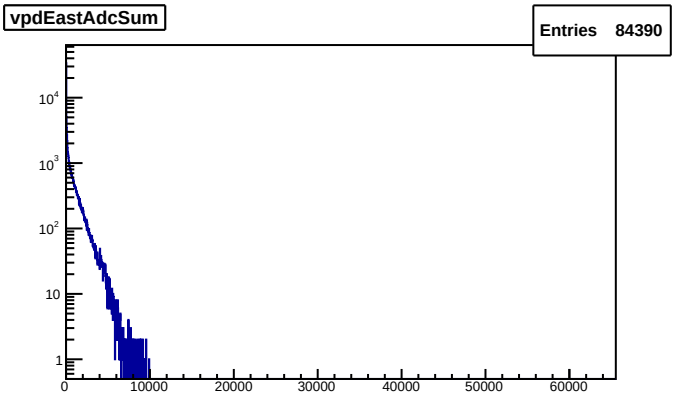
Entries 0
Data
Simu

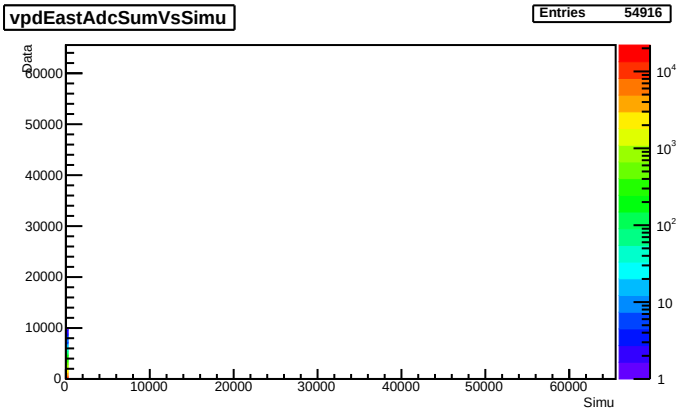

epdWestTac47
Entries 84390

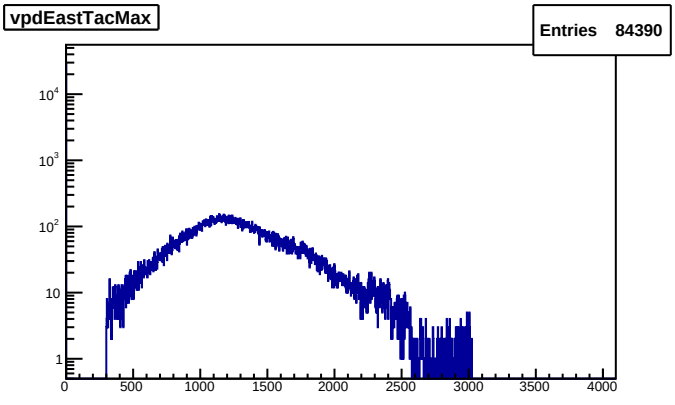

epdWestTac47VsSimu
Entries 0
Data
Simu

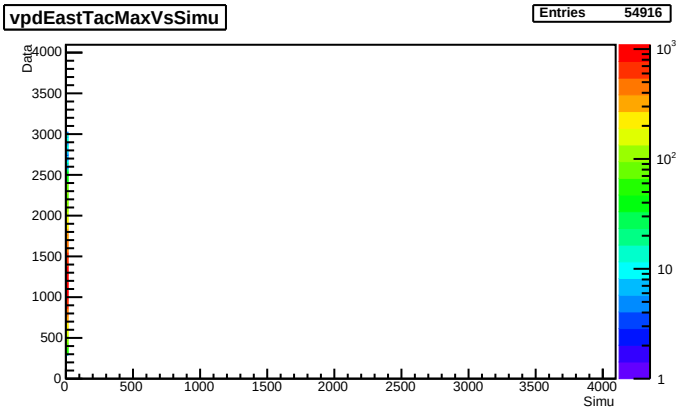

epdWestNHits
Entries 84390

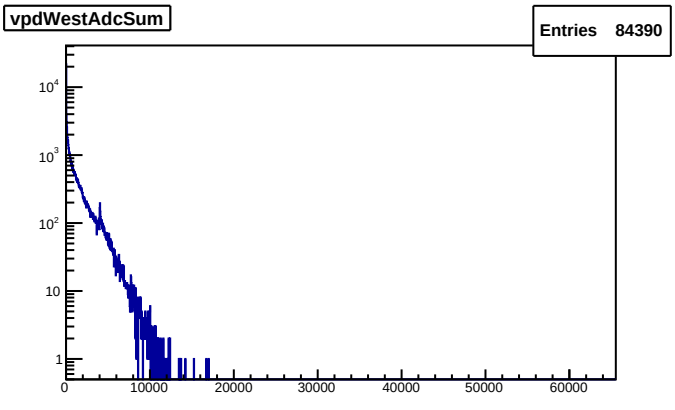

epdWestNHitsVsSimu
Entries 0
Data
Simu

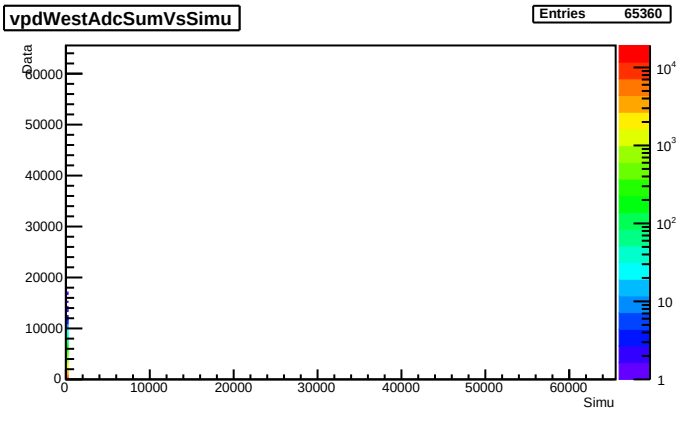

vpdEastAdcSum
Entries 84390

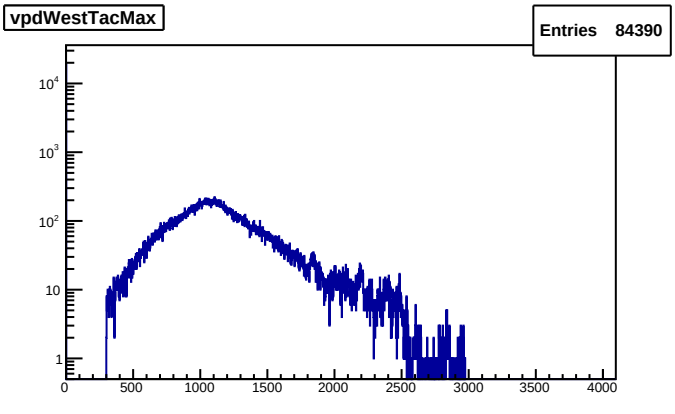

vpdEastAdcSumVsSimu
Entries 54916
Data
Simu

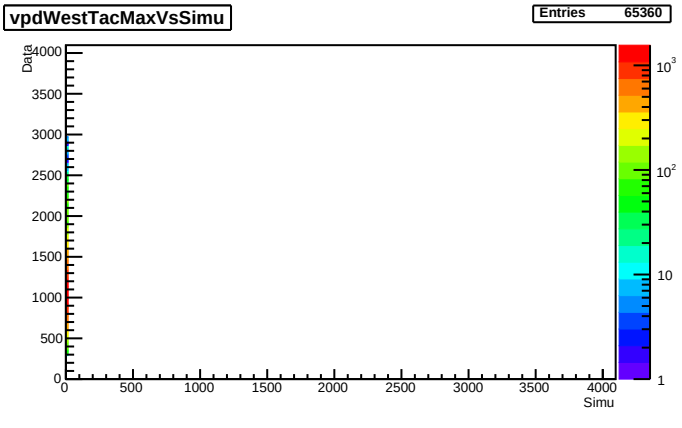

vpdEastTacMax
Entries 84390

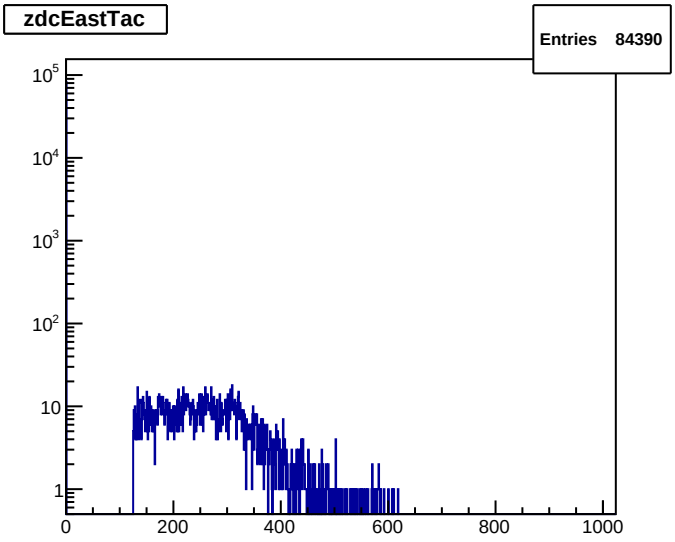

vpdEastTacMaxVsSimu
Entries 54916
Data
Simu

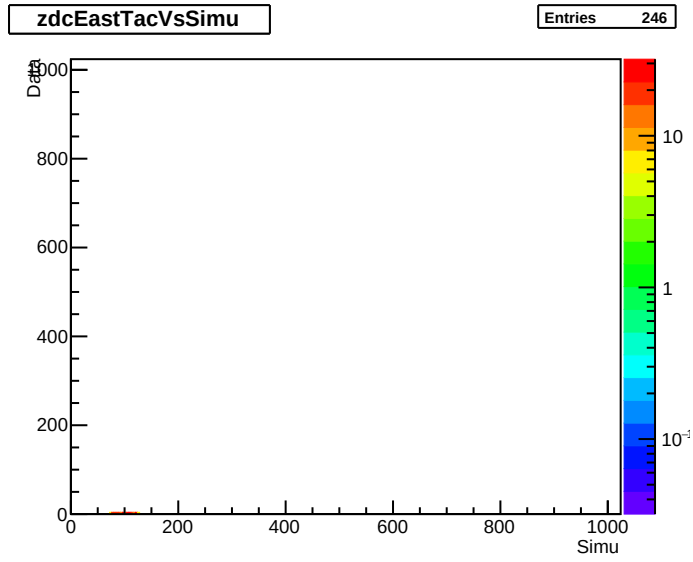

vpdWestAdcSum
Entries 84390

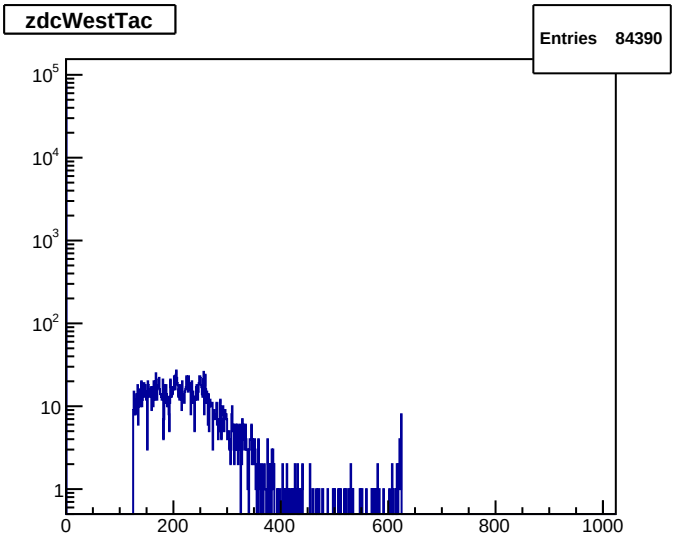

vpdWestAdcSumVsSimu
Entries 65360
Data
Simu

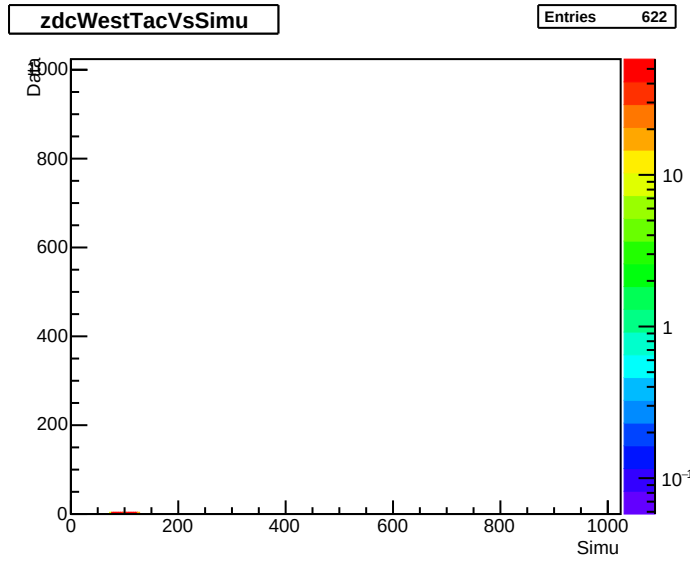

vpdWestTacMax
Entries 84390

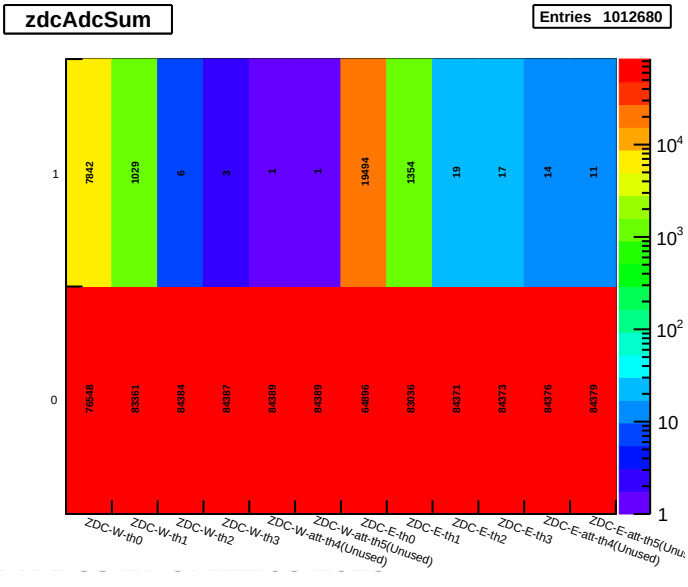

vpdWestTacMaxVsSimu
Entries 65360
Data
Simu

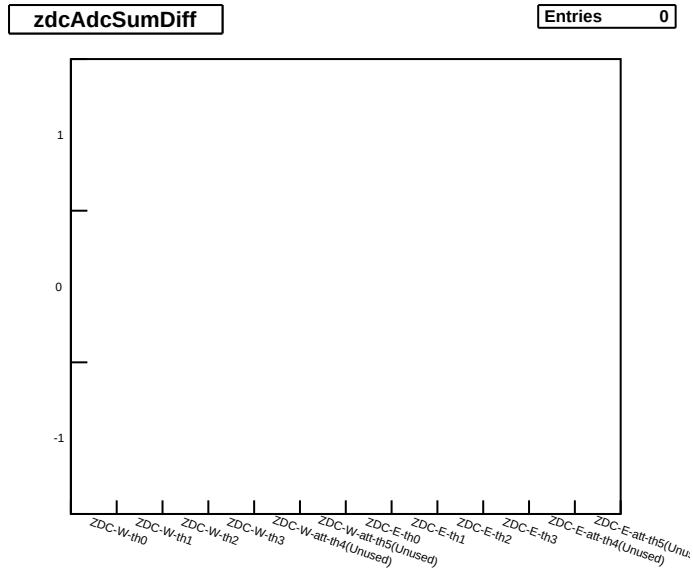

zdcEastTac
Entries 84390

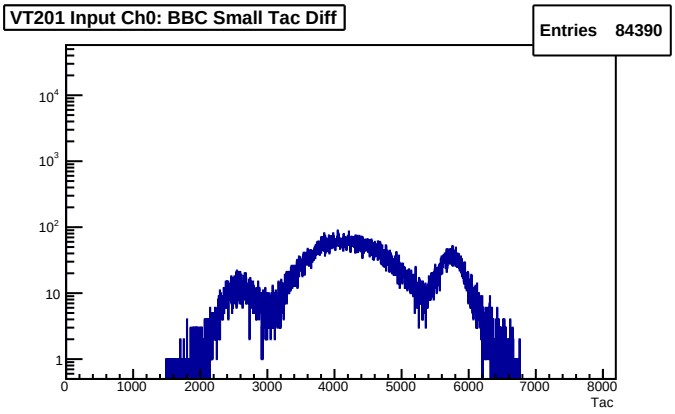

zdcEastTacVsSimu
Entries 246
Data
Simu

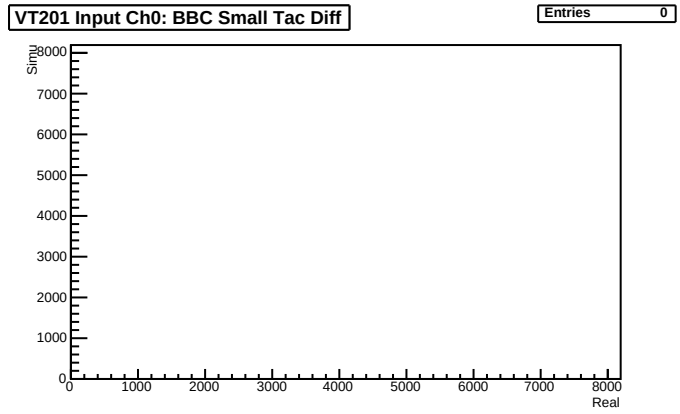

zdcWestTac
Entries 84390

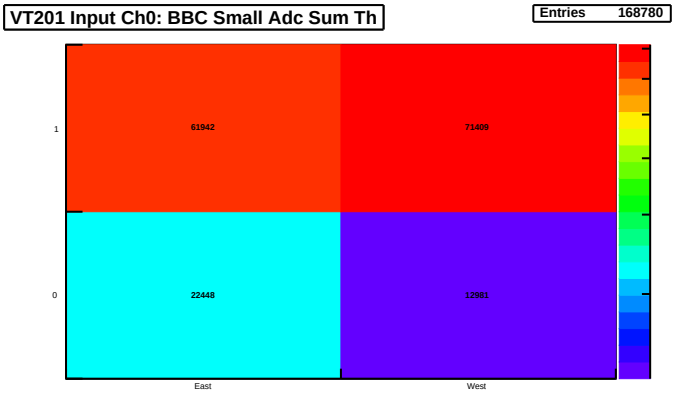

zdcWestTacVsSimu
Entries 622
Data
Simu

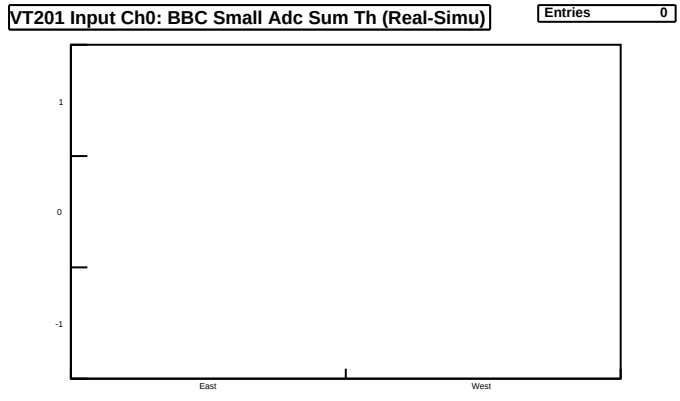

zdcAdcSum
Entries 1012680
7842
1029
6
3
1
1
19494
1354
19
17
14
11
76548
83361
84384
84387
84389
84389
84396
83836
84371
84373
84376
84379
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

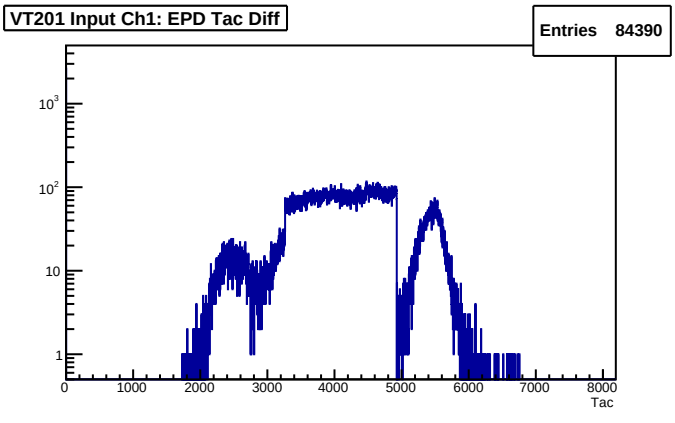

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

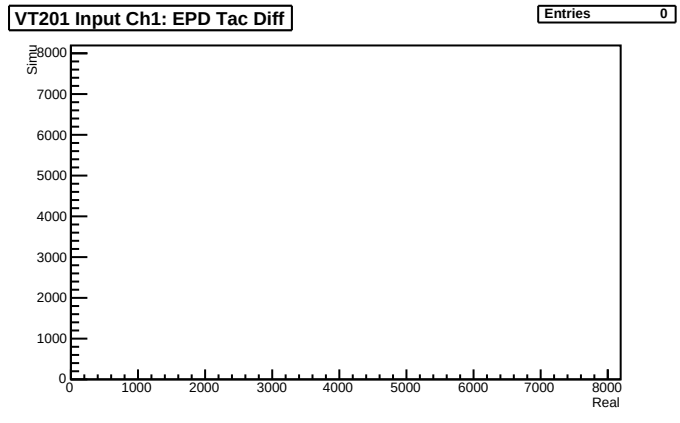

VT201 Input Ch0: BBC Small Tac Diff
Entries 84390
Tac

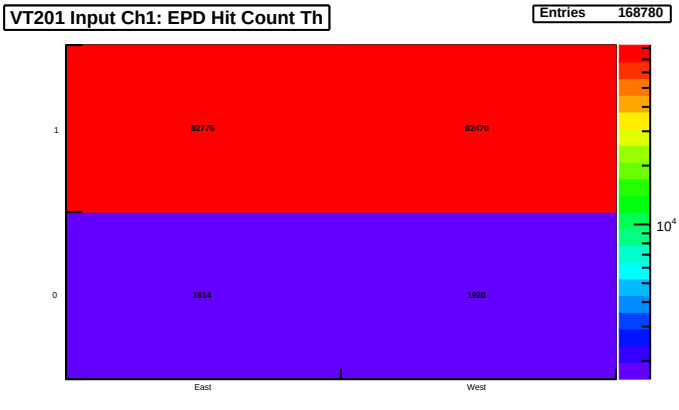

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

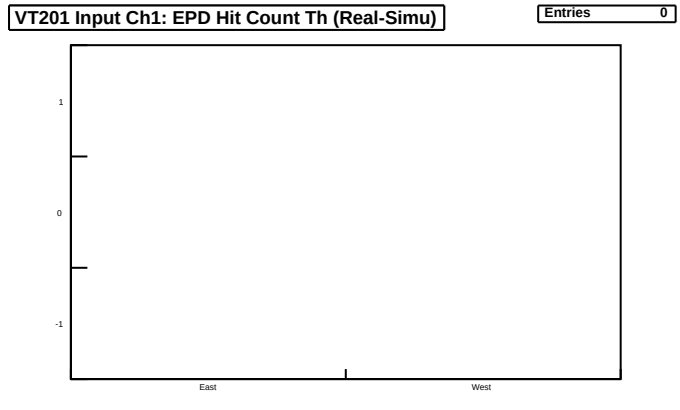

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 168780
61942
71409
22448
12981
East
West

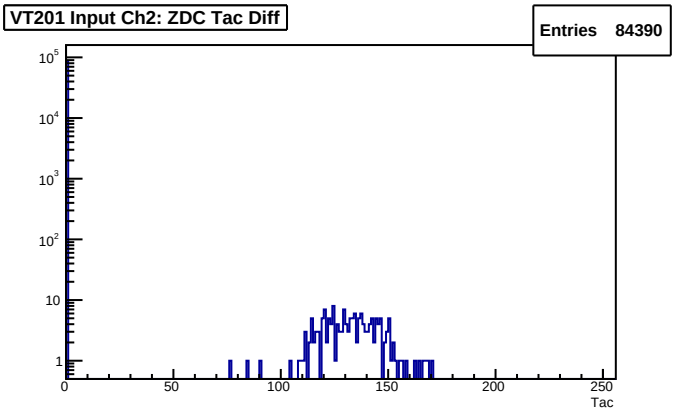

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

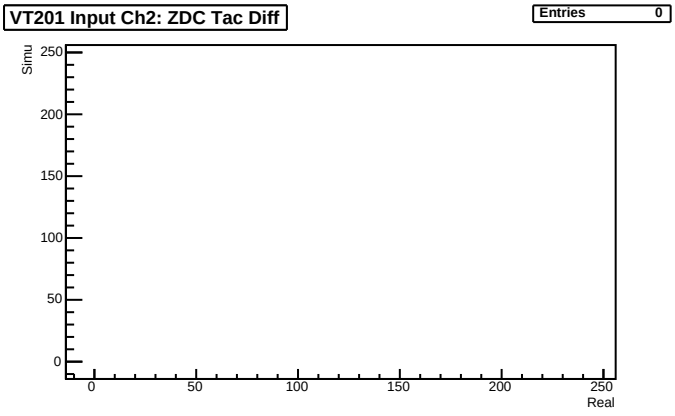

VT201 Input Ch1: EPD Tac Diff
Entries 84390
Tac

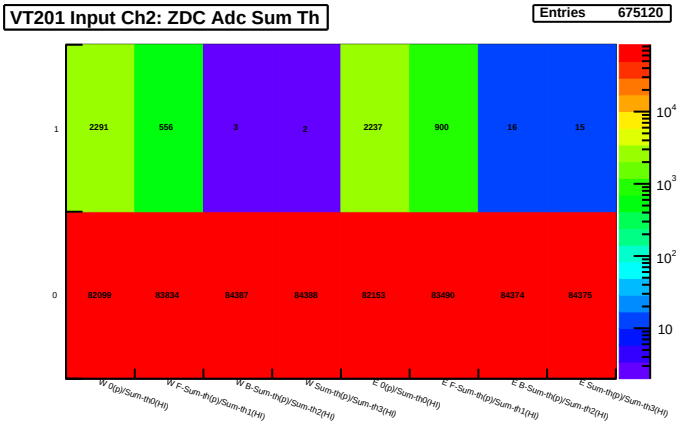

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

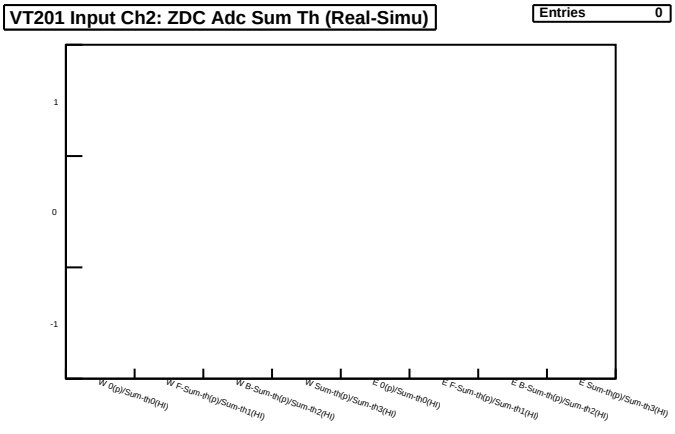

VT201 Input Ch1: EPD Hit Count Th
Entries 168780
82776
82470
1614
1920
East
West

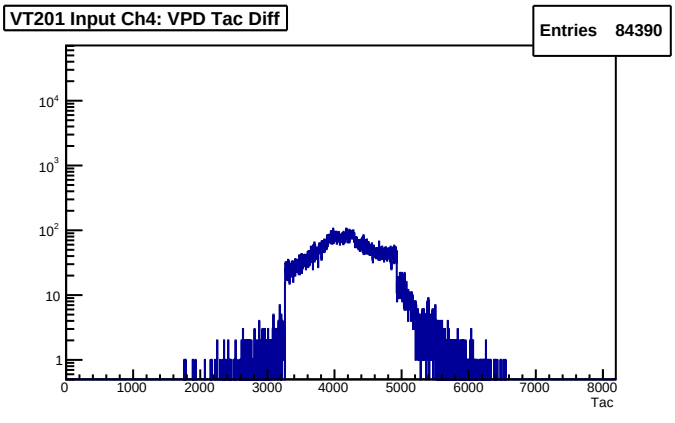

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

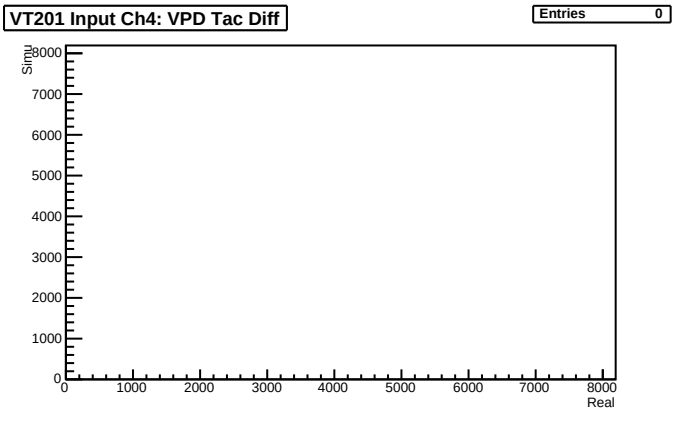

VT201 Input Ch2: ZDC Tac Diff
Entries 84390
Tac

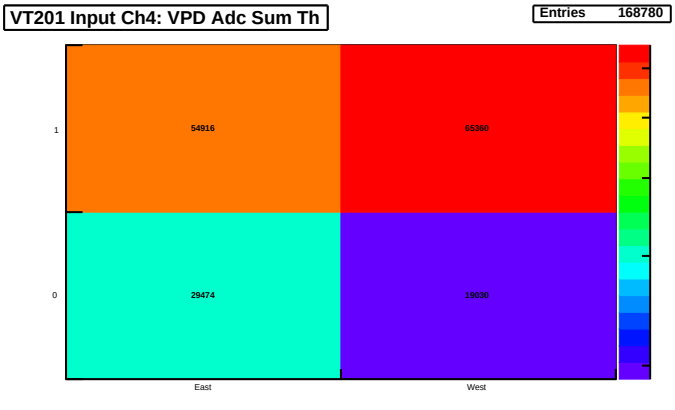

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

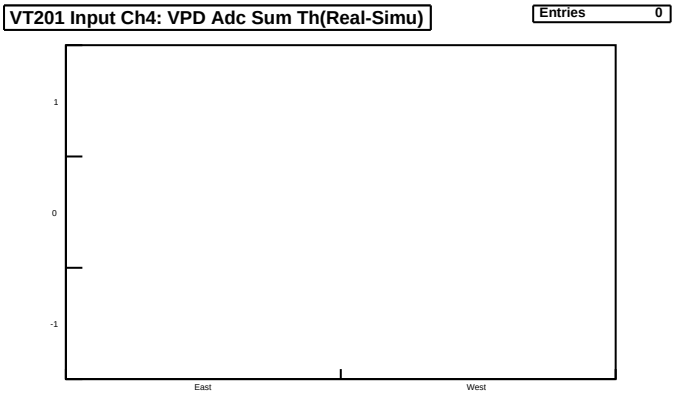

VT201 Input Ch2: ZDC Adc Sum Th
Entries 675120
2291
556
3
2
2237
900
16
15
82099
83834
84387
84388
82153
83490
84374
84375
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

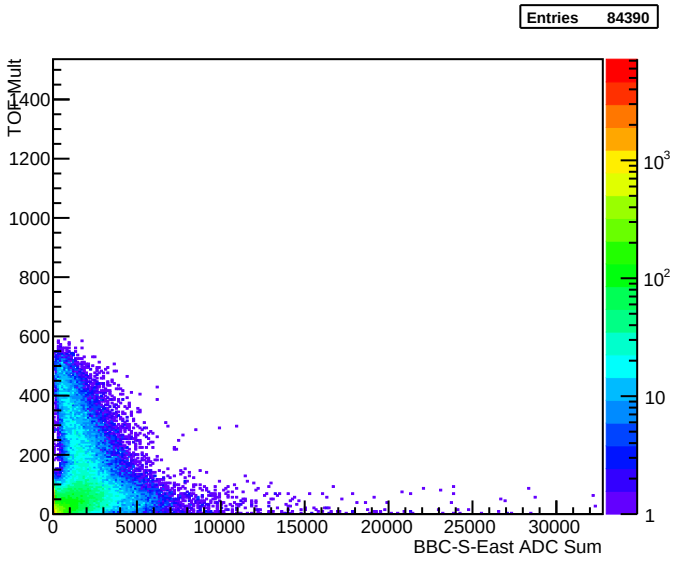

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

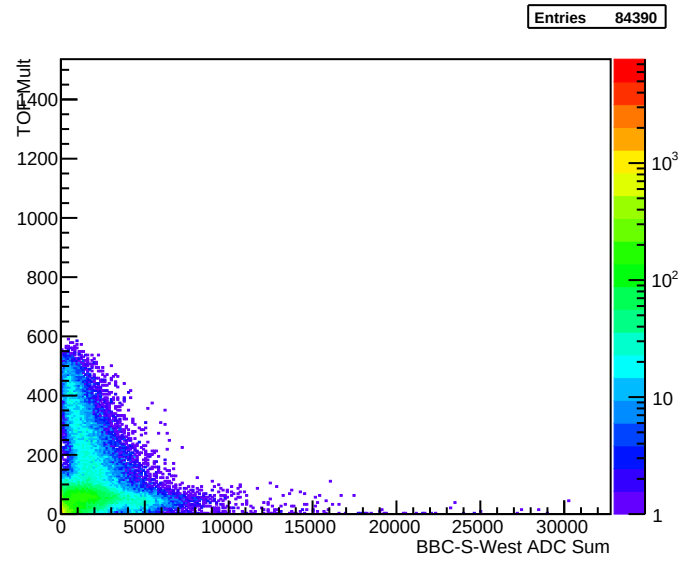

VT201 Input Ch4: VPD Tac Diff
Entries 84390
Tac

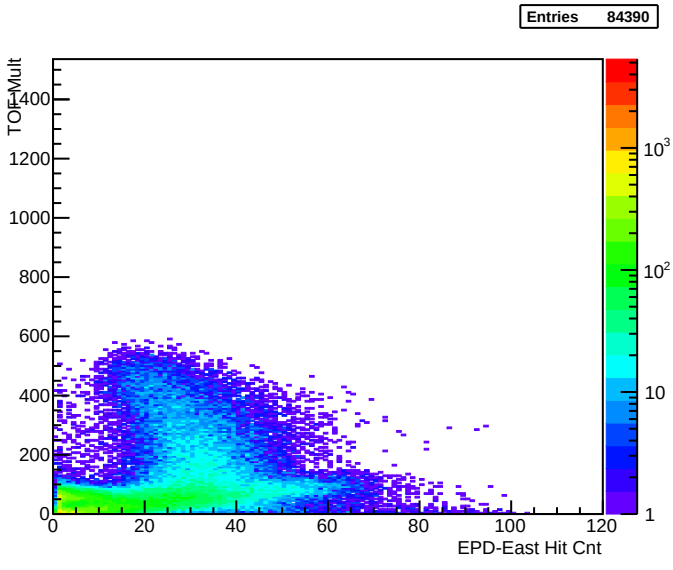

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

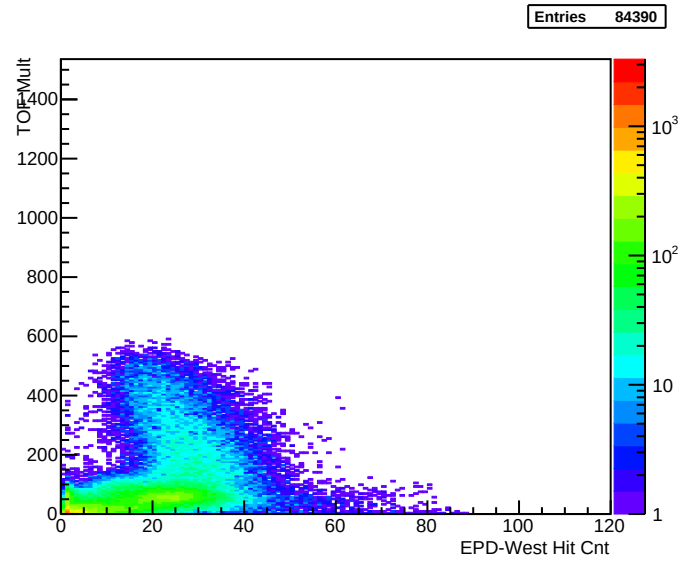

VT201 Input Ch4: VPD Adc Sum Th
Entries 168780
54916
65360
29474
19030
East
West

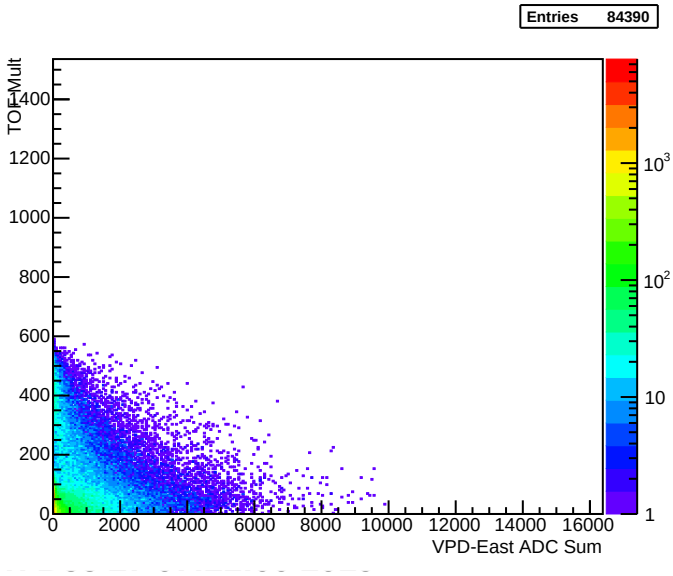

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

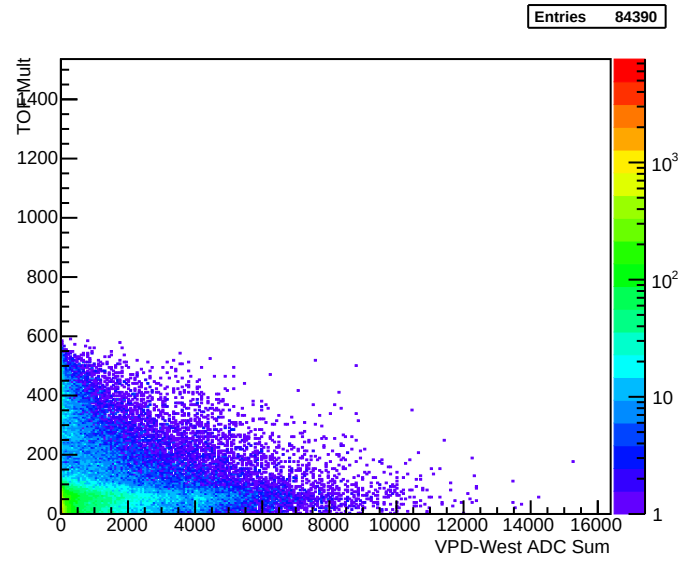

Entries 84390
TOF-Mult
BBC-S-East ADC Sum

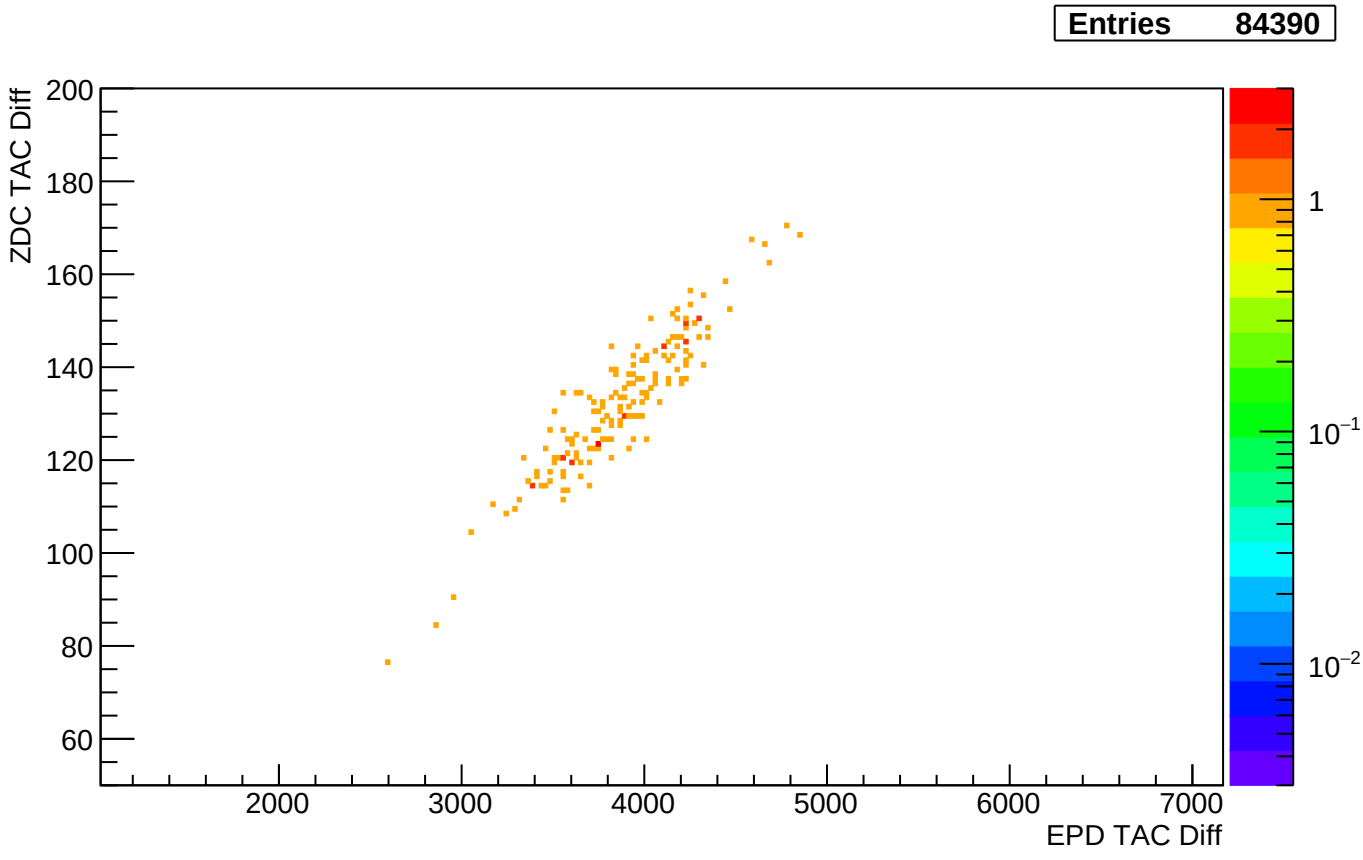

Entries 84390
TOF-Mult
BBC-S-West ADC Sum

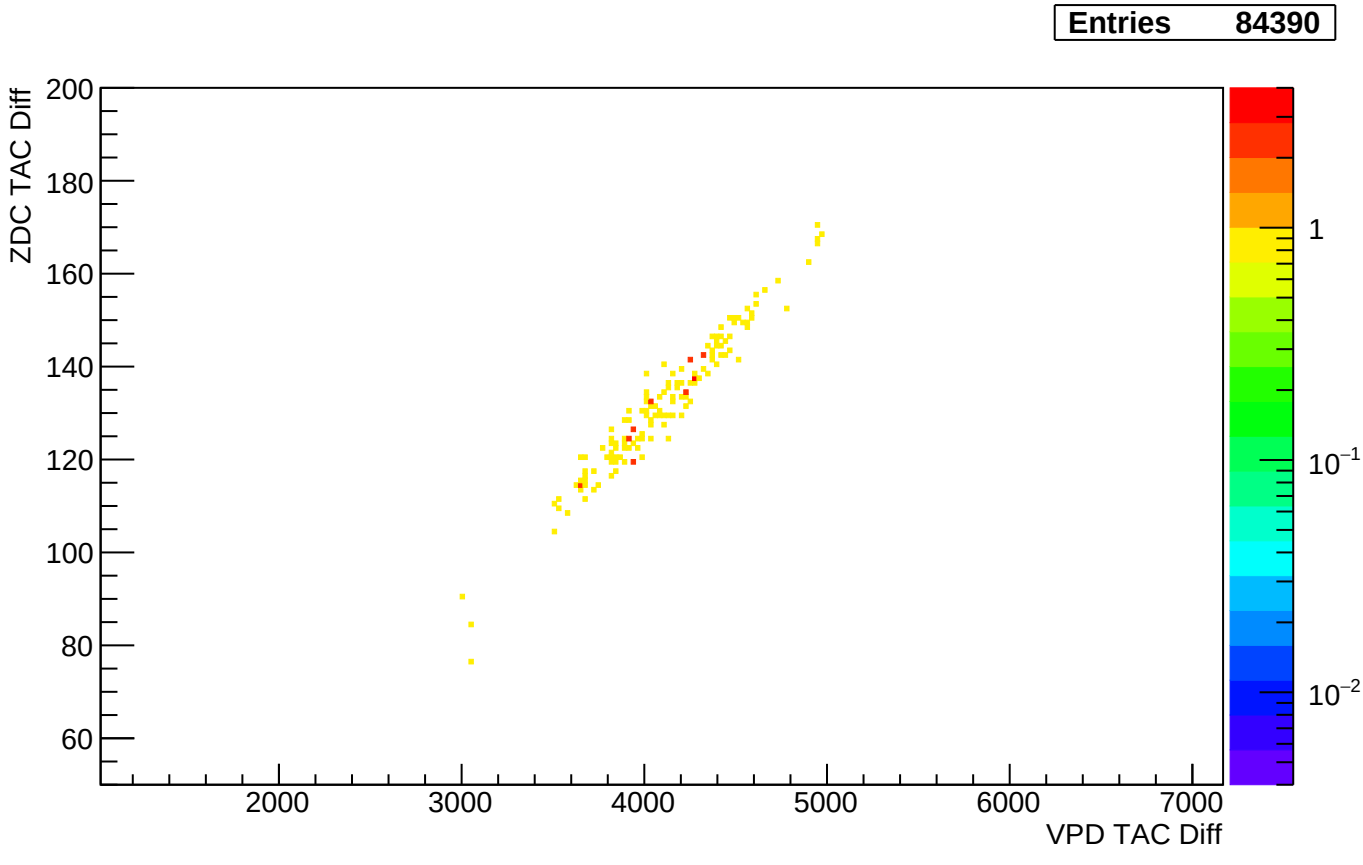

Entries 84390
TOF-Mult
EPD-East Hit Cnt

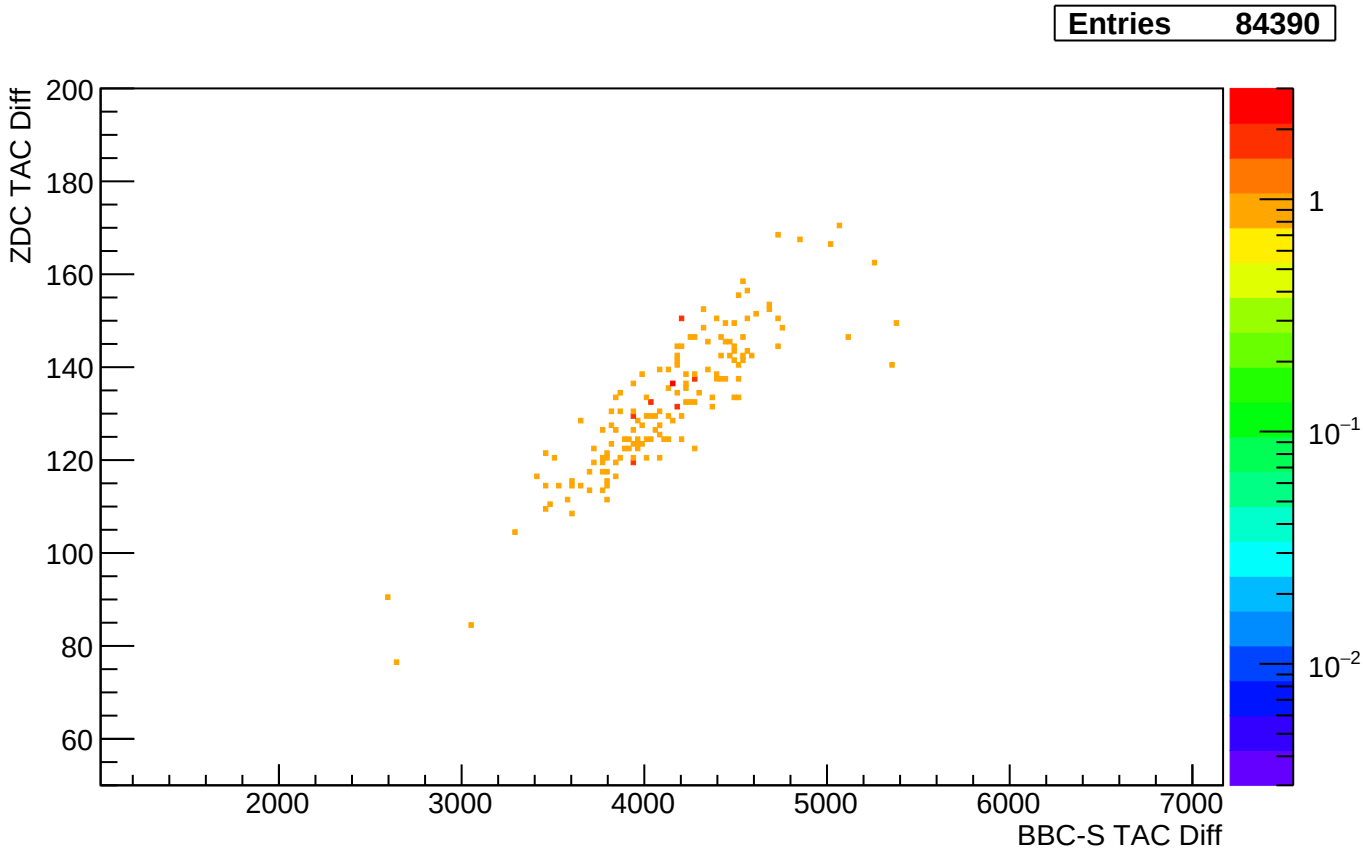

Entries 84390
TOF-Mult
EPD-West Hit Cnt

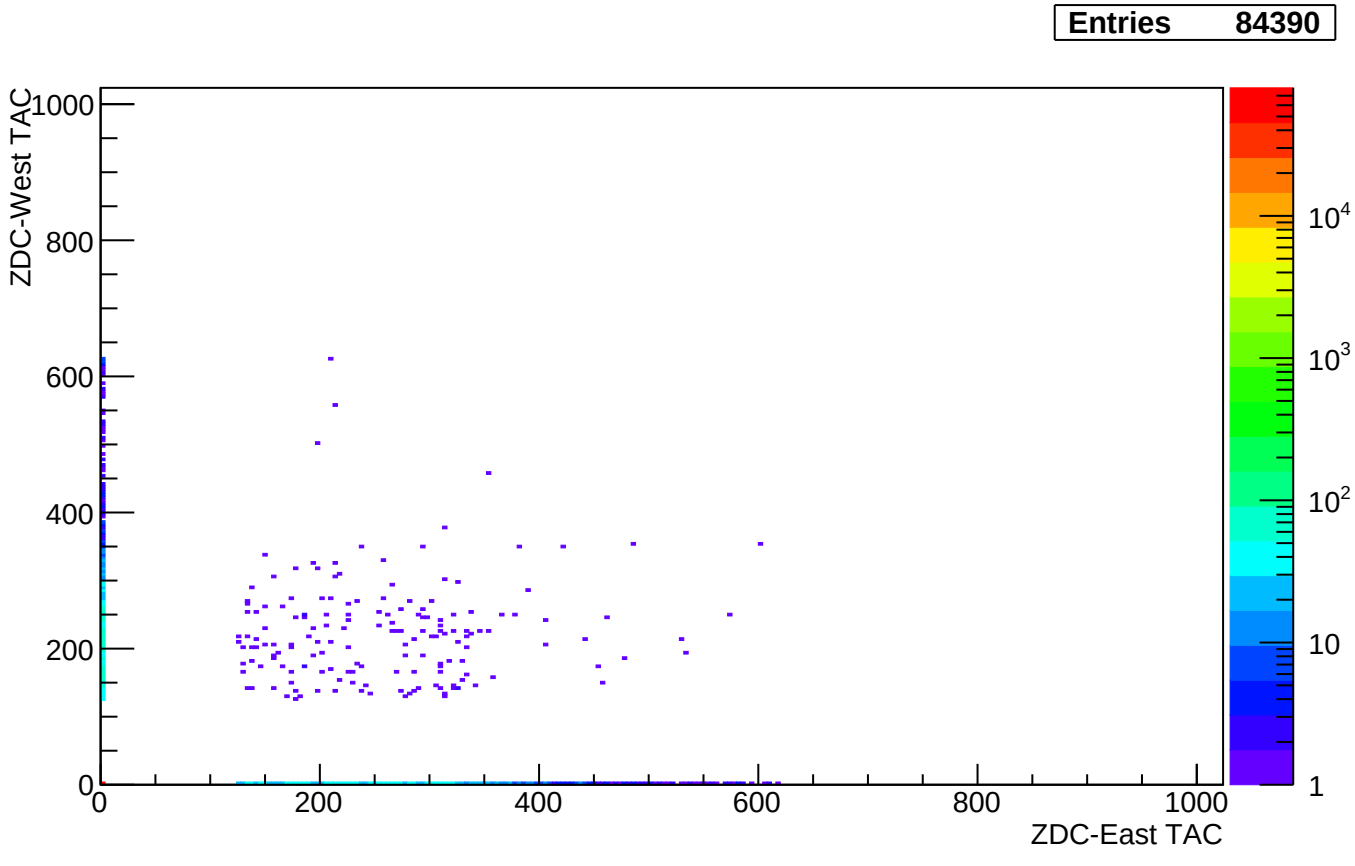

Entries 84390
TOF-Mult
VPD-East ADC Sum

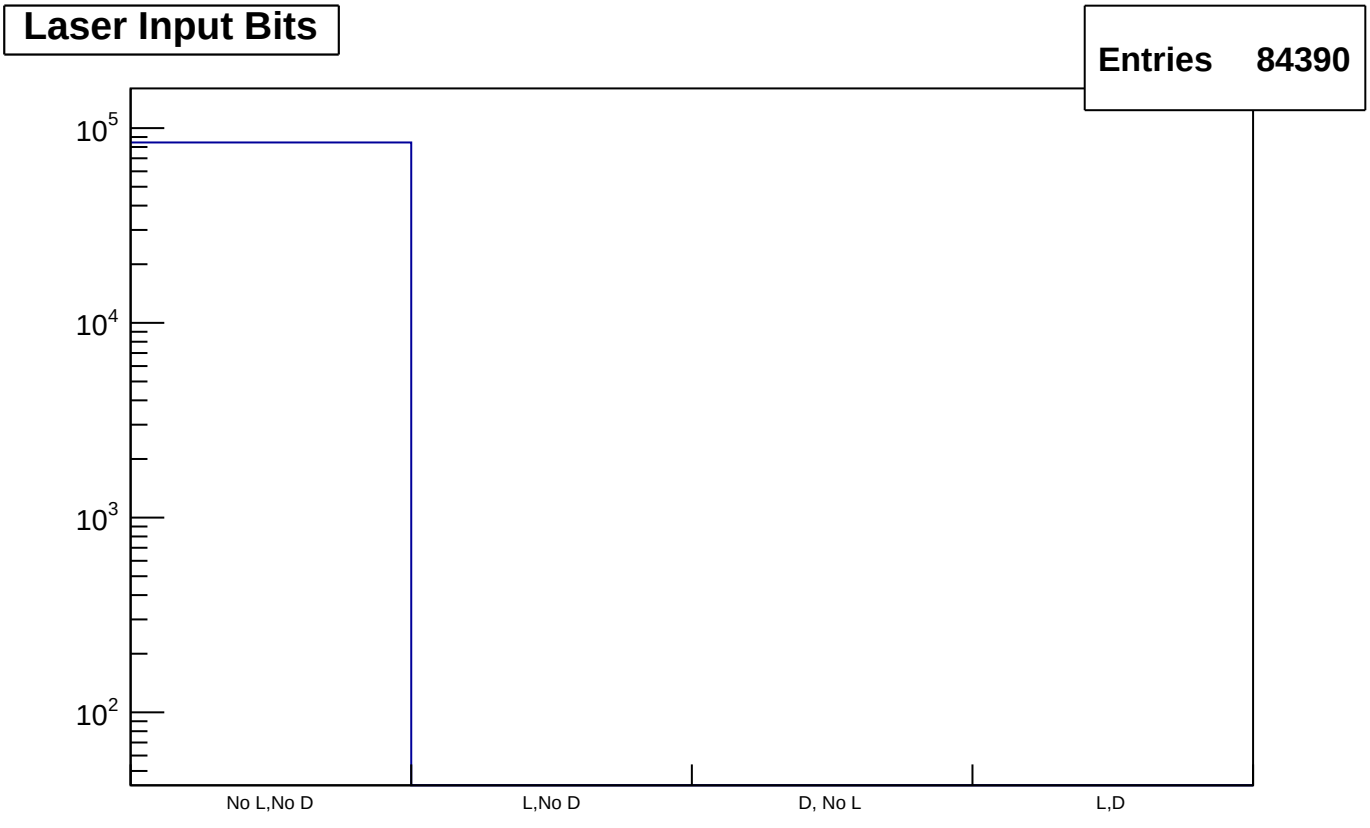

Entries 84390
TOF-Mult
VPD-West ADC Sum

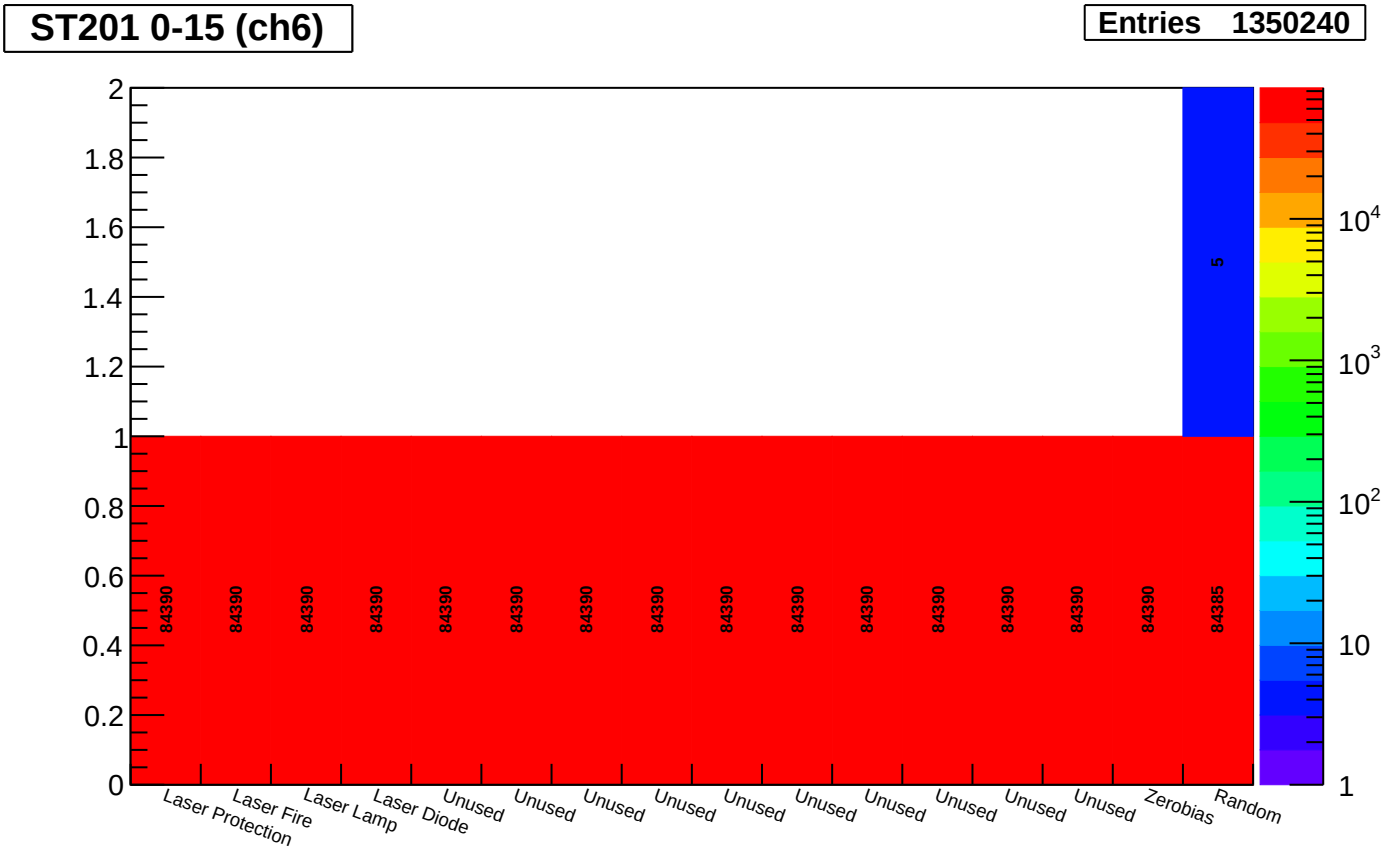

Entries 84390
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

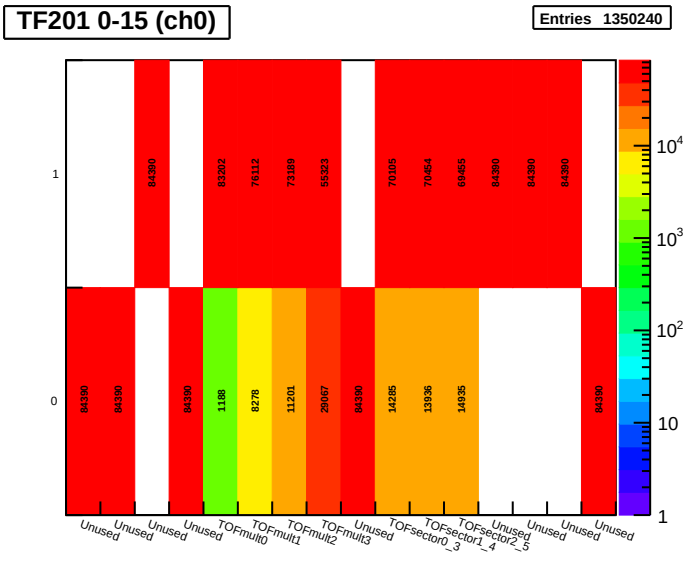

Entries 84390
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

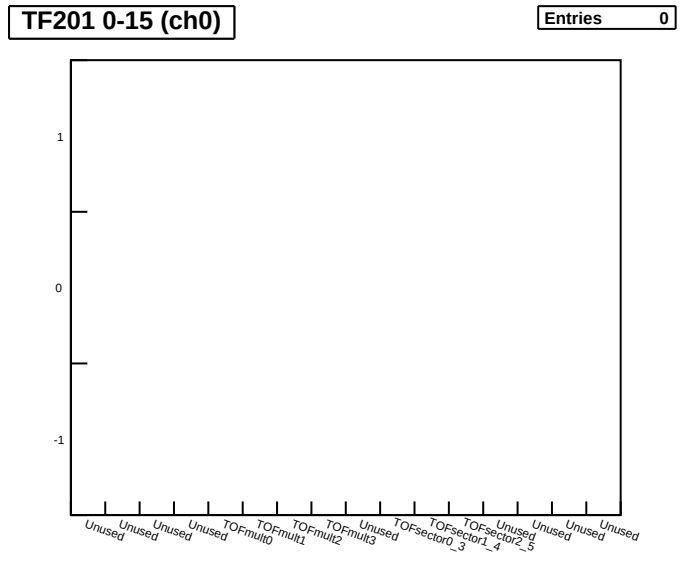

Entries 84390
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

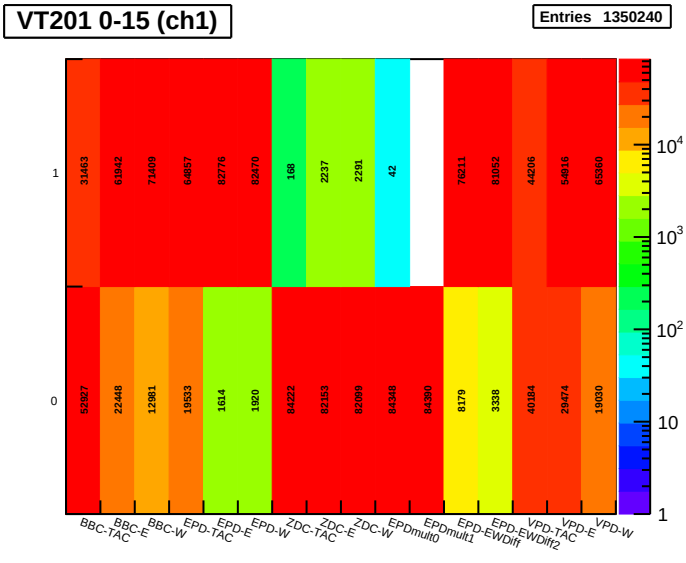

Entries 84390
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

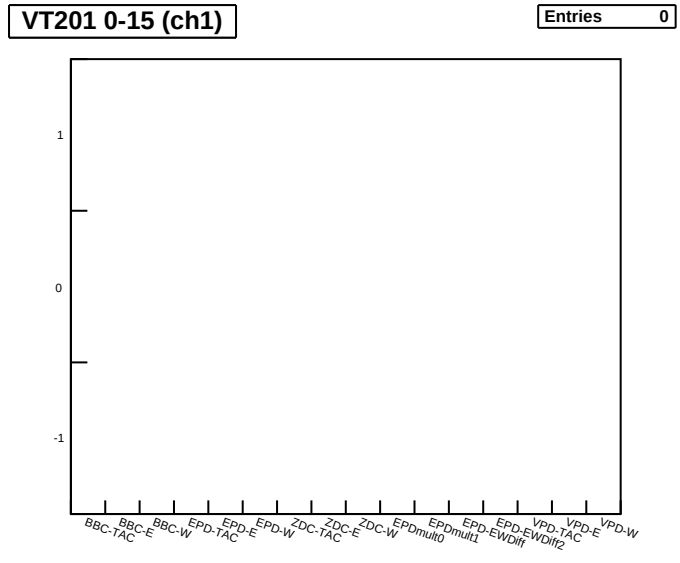

Laser Input Bits
Entries 84390
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

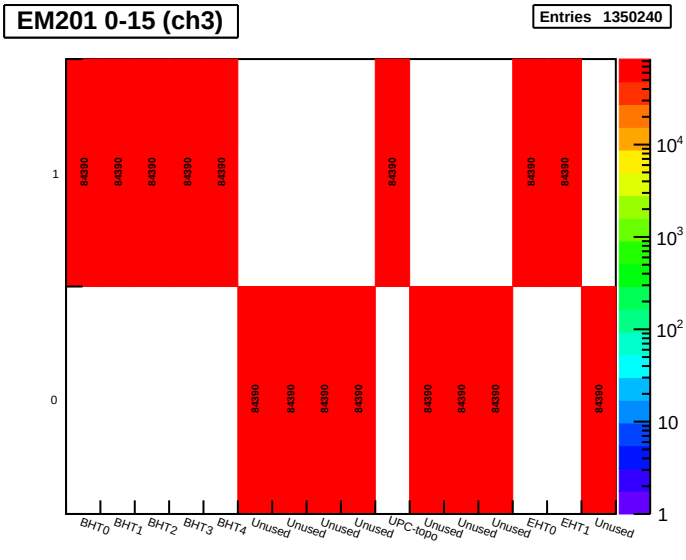

ST201 0-15 (ch6)
Entries 1350240
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5
84390
84385
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

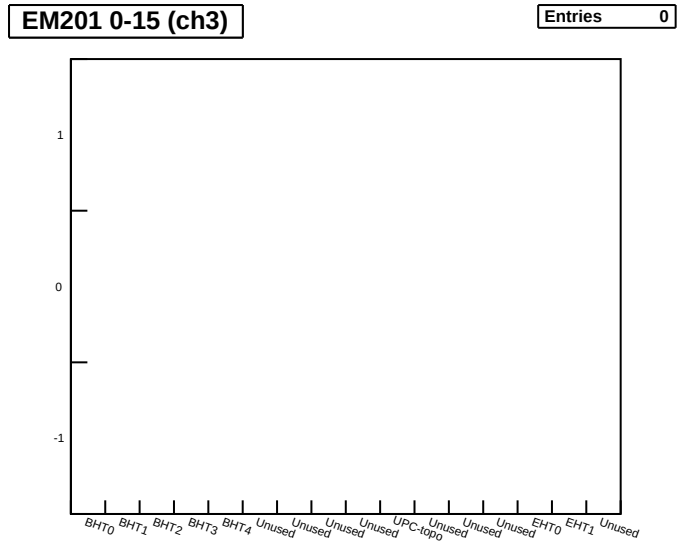

TF201 0-15 (ch0)
Entries 1350240
1
0
84390 83202 76112 73189 55323 70105 70454 69455 84390 84390 84390
84390 84390 84390 1188 8278 11201 29067 84390 14285 13936 14935 84390
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^4
10^3
10^2
10
1


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


VT201 0-15 (ch1)
Entries 1350240
1
0
31463 61942 71409 64857 82776 82470 168 2237 2291 42 76211 81052 44206 54916 63360
52827 22448 12981 19533 1614 1920 84222 82153 82099 84348 84390 8179 3338 40184 29474 19030
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^4
10^3
10^2
10
1


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


EM201 0-15 (ch3)
Entries 1350240
1
0
84390 84390 84390 84390 84390 84390 84390 84390
84390 84390 84390 84390 84390 84390 84390 84390
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^4
10^3
10^2
10
1


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