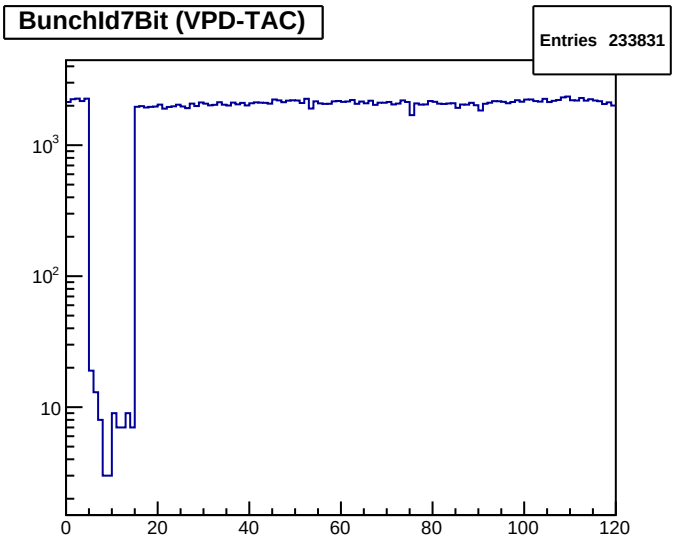
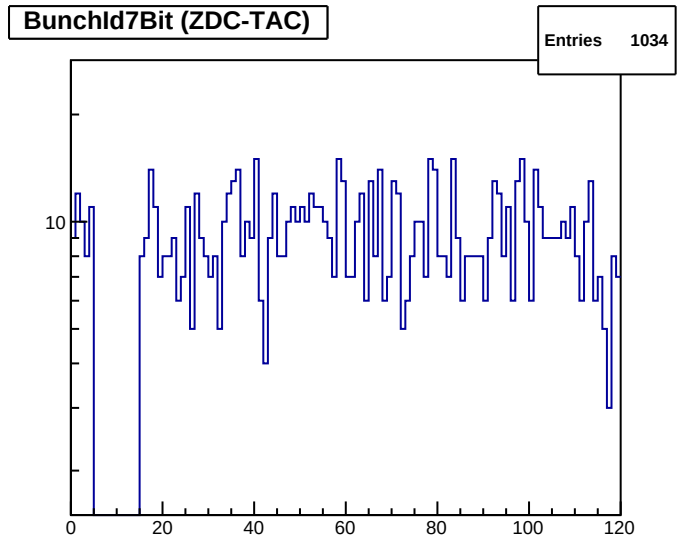
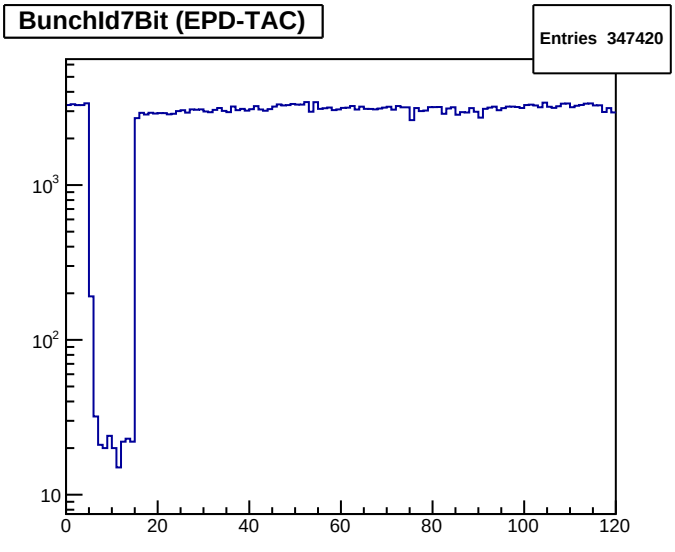
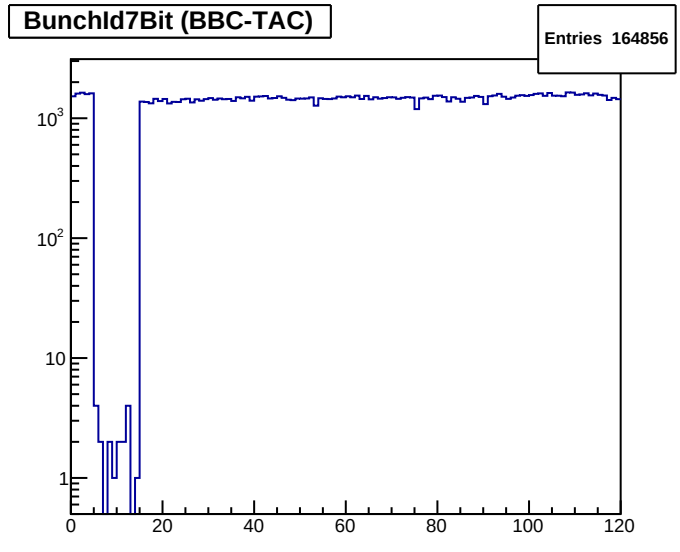
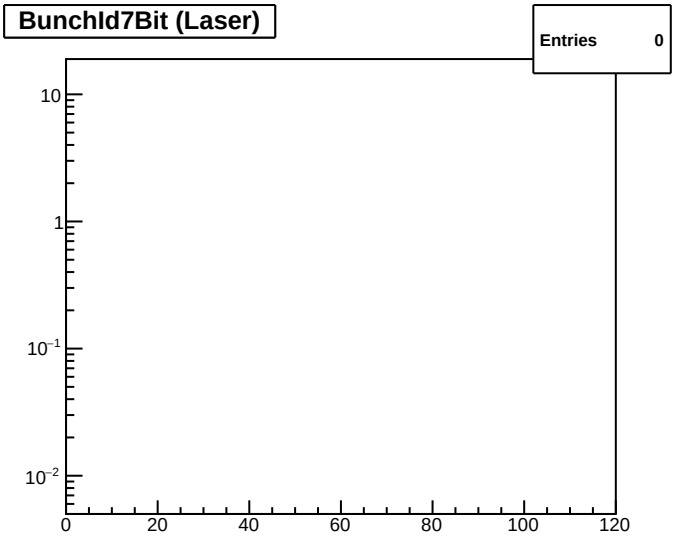
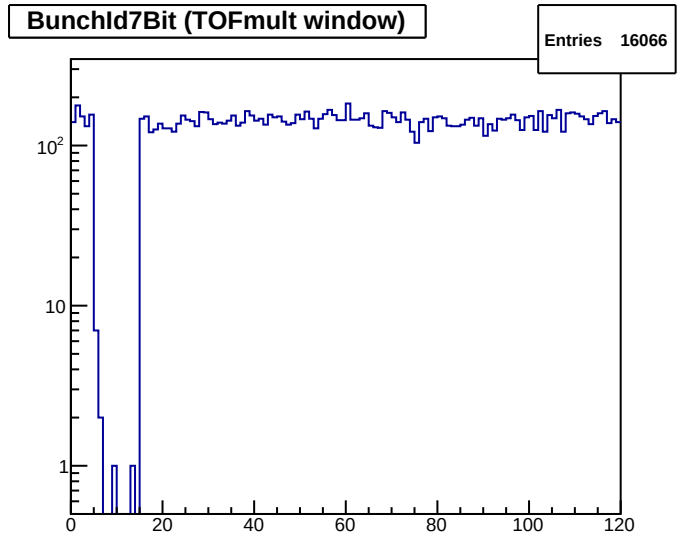

BunchId7Bit (VPD-TAC)
Entries 233831
10^3
10^2
10
0 20 40 60 80 100 120

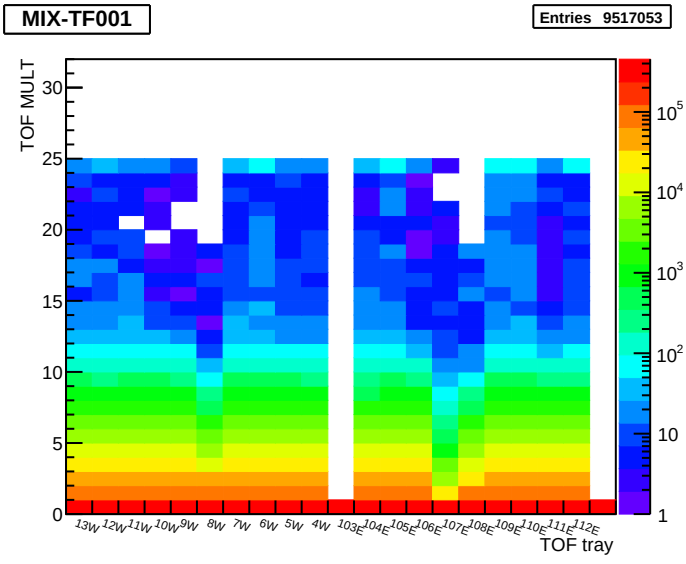

BunchId7Bit (ZDC-TAC)
Entries 1034
10
0 20 40 60 80 100 120

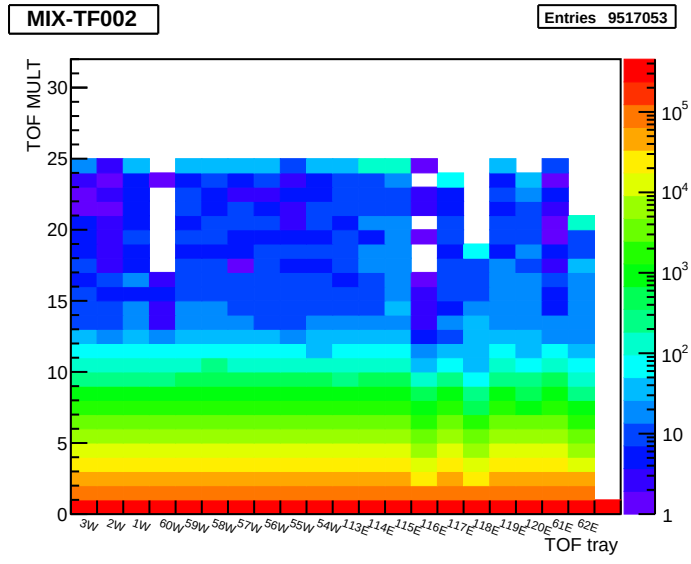

BunchId7Bit (EPD-TAC)
Entries 347420
10^3
10^2
10
0 20 40 60 80 100 120

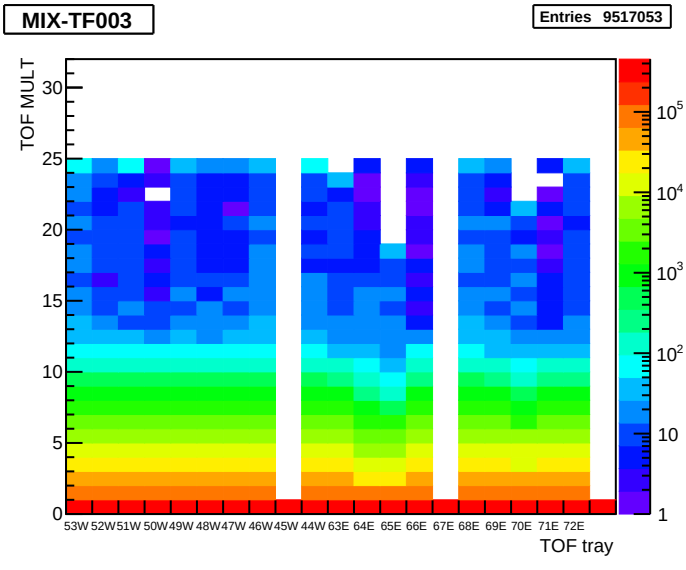

BunchId7Bit (BBC-TAC)
Entries 164856
10^3
10^2
10
1
0 20 40 60 80 100 120

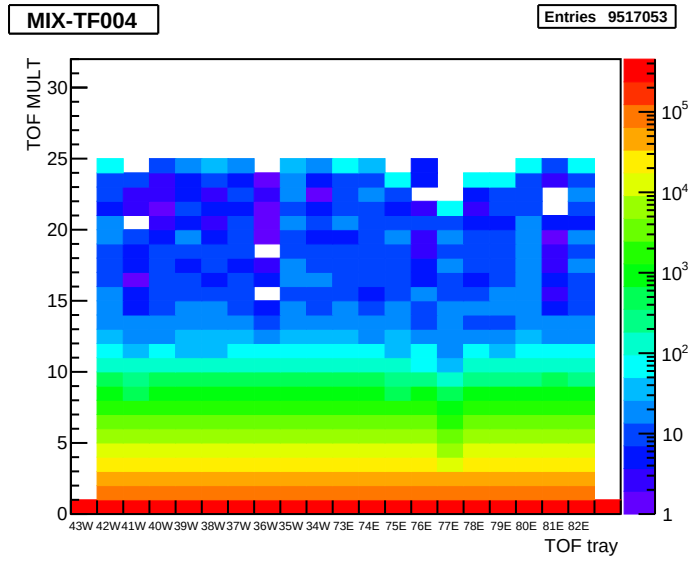

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

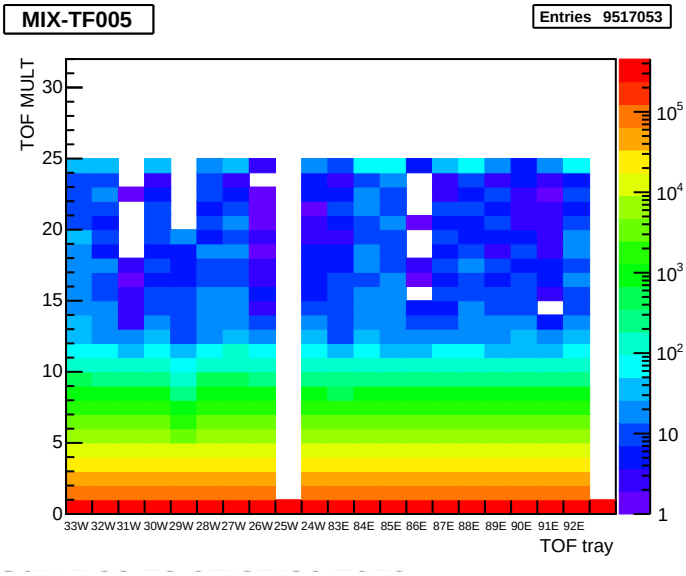

BunchId7Bit (TOFmult window)
Entries 16066
10^2
10
1
0 20 40 60 80 100 120

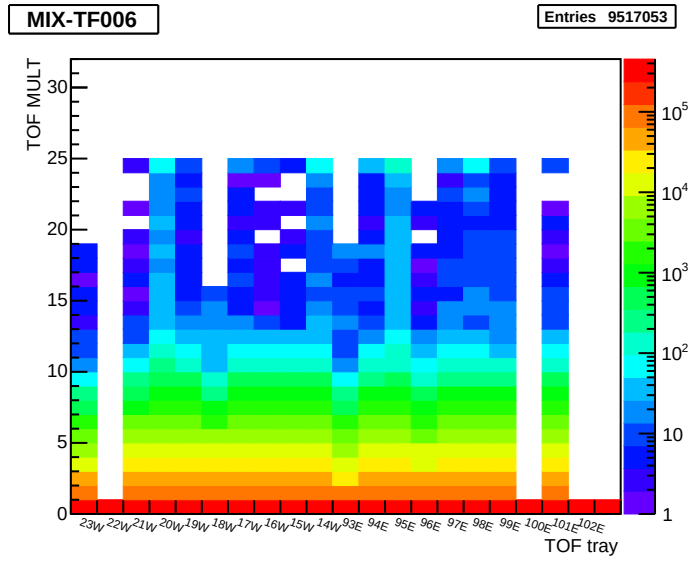

MIX-TF001
Entries 9517053
TOF MULT
TOF tray

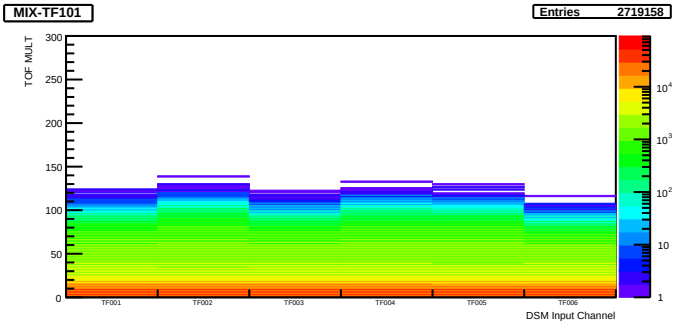

MIX-TF002
Entries 9517053
TOF MULT
TOF tray

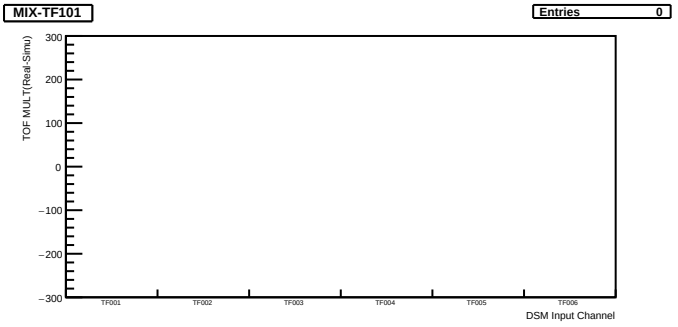

MIX-TF003
Entries 9517053
TOF MULT
TOF tray

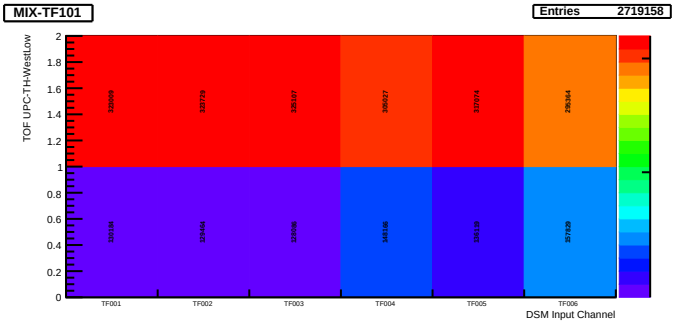

MIX-TF004
Entries 9517053
TOF MULT
TOF tray

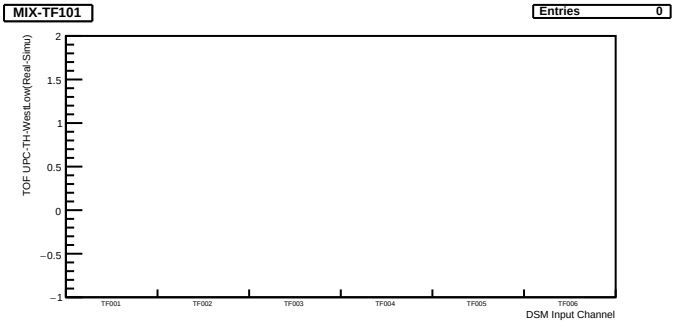

MIX-TF005
Entries 9517053
TOF MULT
TOF tray

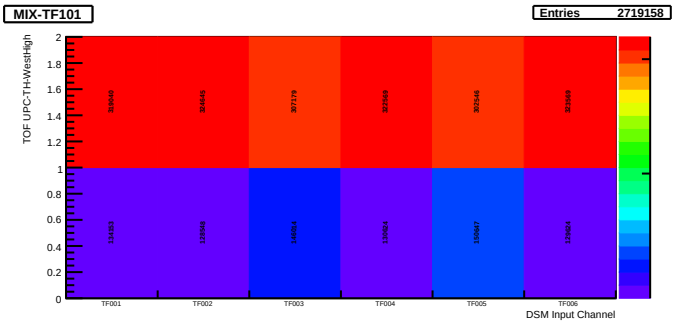

MIX-TF006
Entries 9517053
TOF MULT
TOF tray

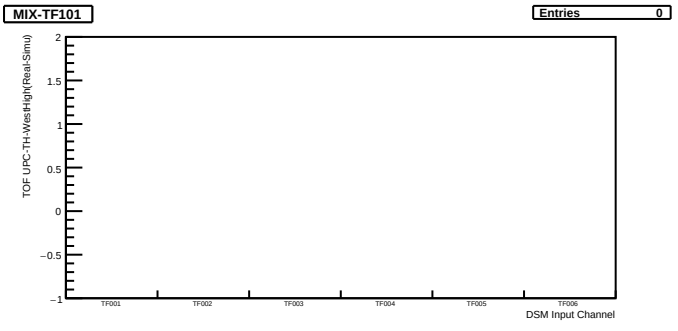

MIX-TF101
Entries 2719158
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

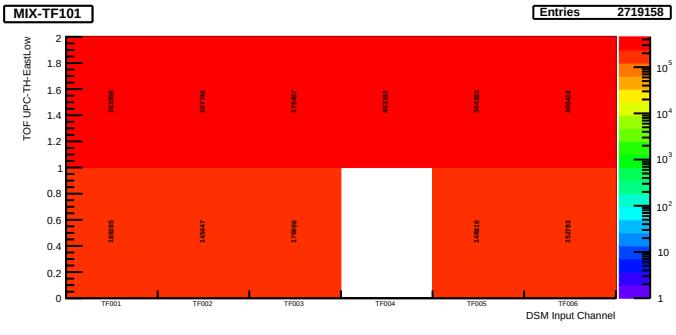

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

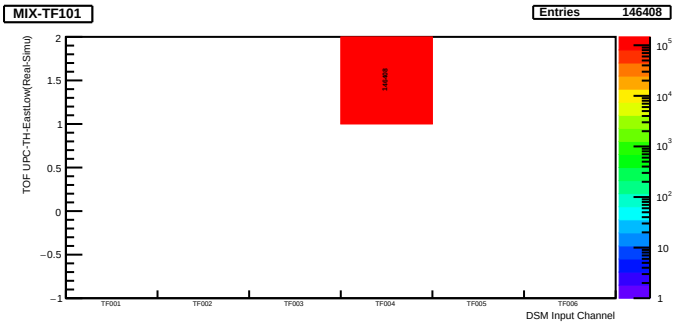

MIX-TF101
Entries 2719158
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

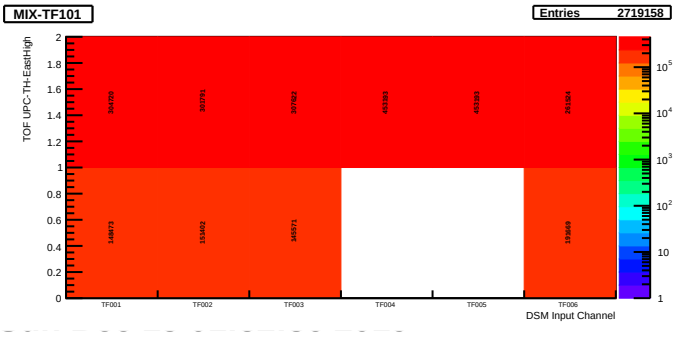

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

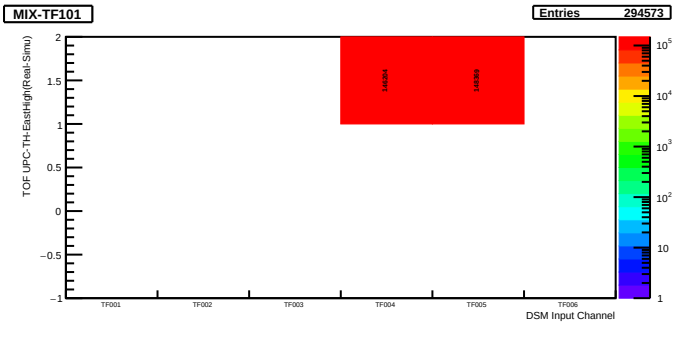

MIX-TF101
Entries 2719158
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

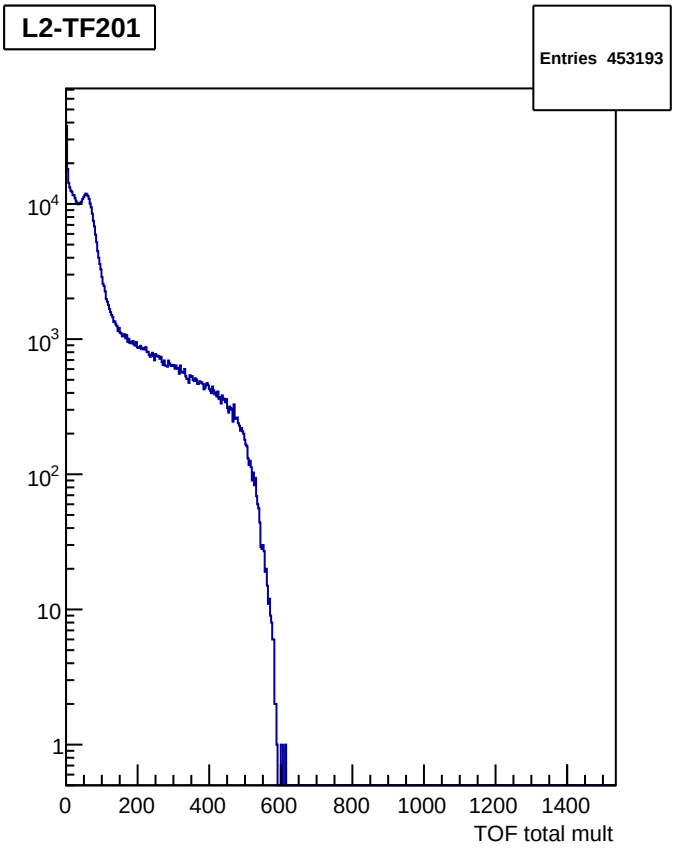

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

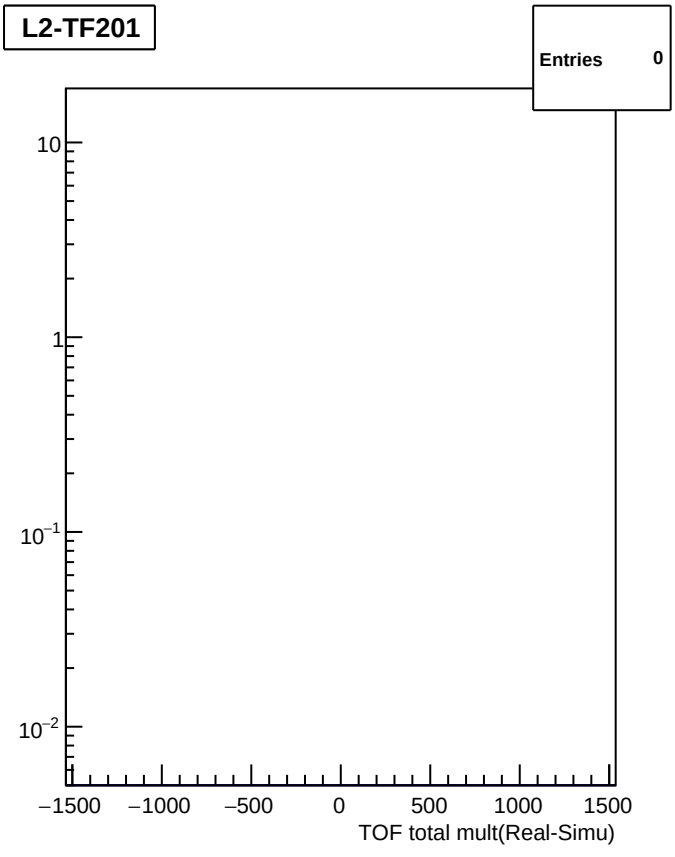

MIX-TF101
Entries 2719158
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

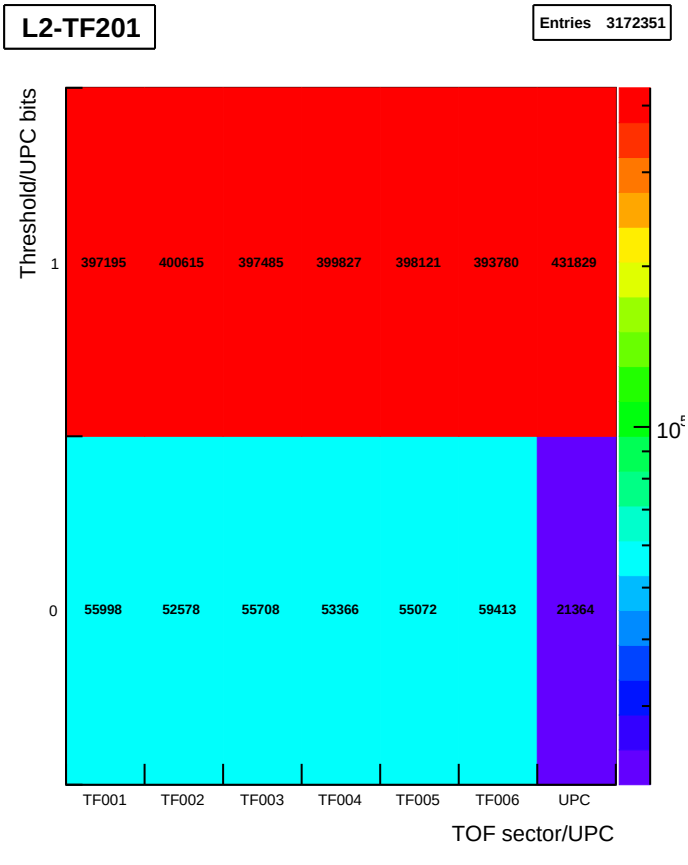

MIX-TF101
Entries 146408
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

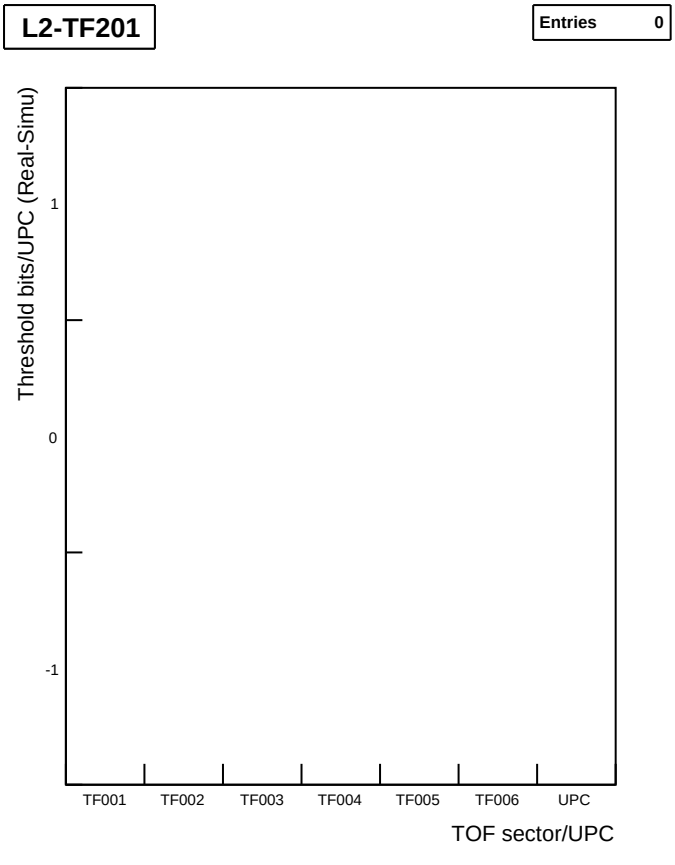

MIX-TF101
Entries 2719158
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

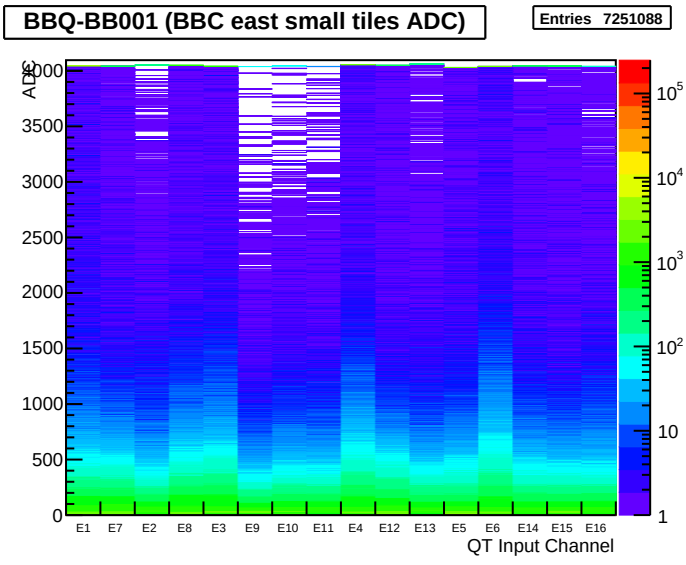

MIX-TF101
Entries 294573
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

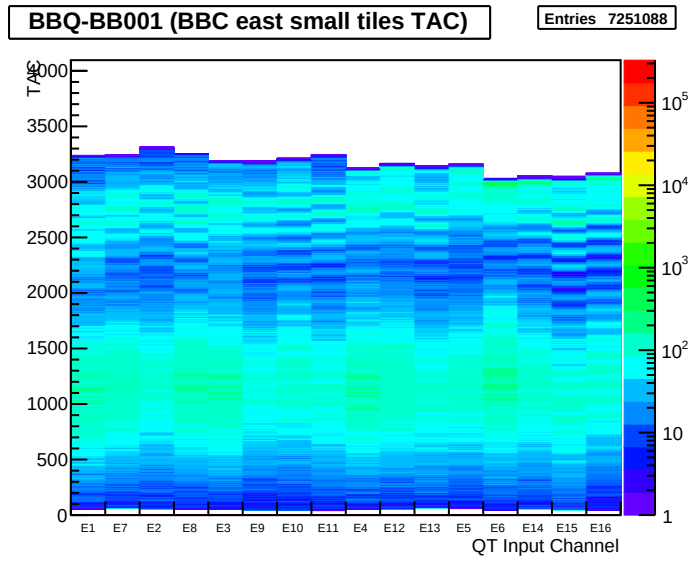

L2-TF201
Entries 453193
TOF total mult

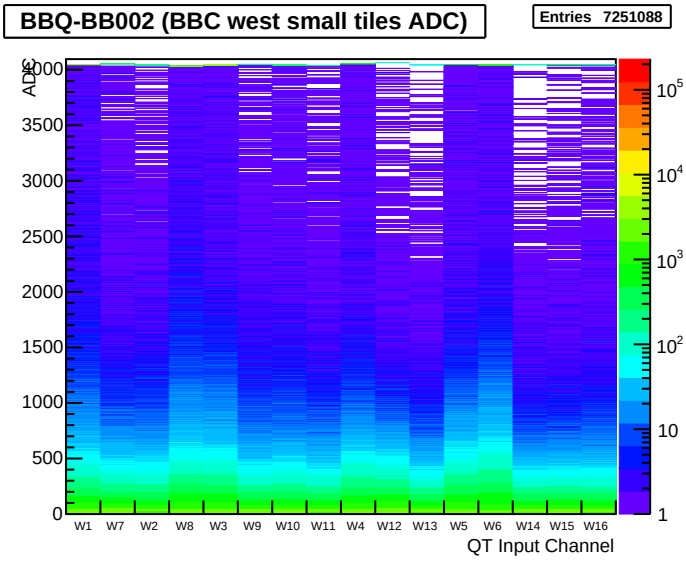

L2-TF201
Entries 0
TOF total mult(Real-Simu)

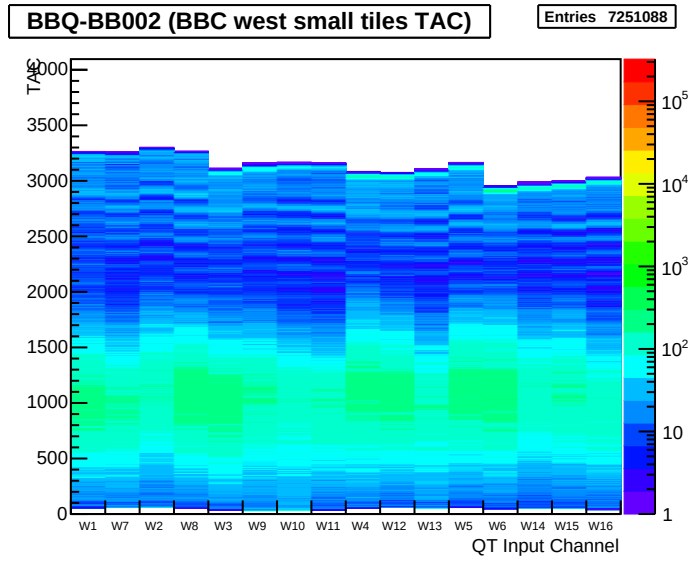

L2-TF201
Entries 3172351
Threshold/UPC bits
397195
400615
397485
399827
398121
393780
431829
55998
52578
55708
53366
55072
59413
21364
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

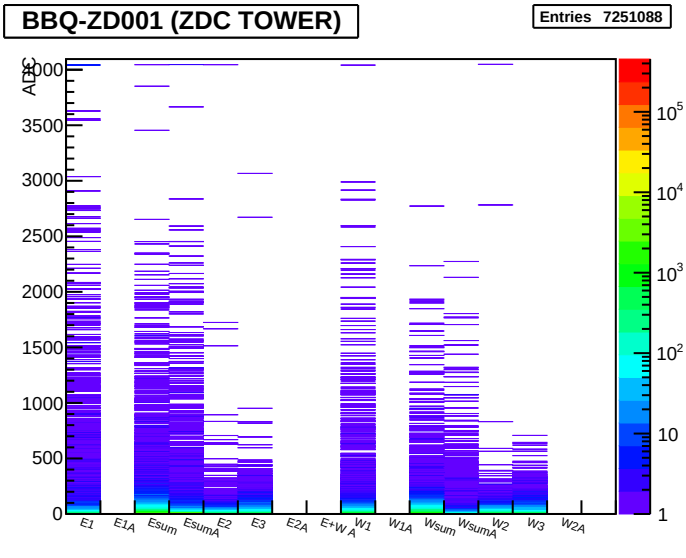

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

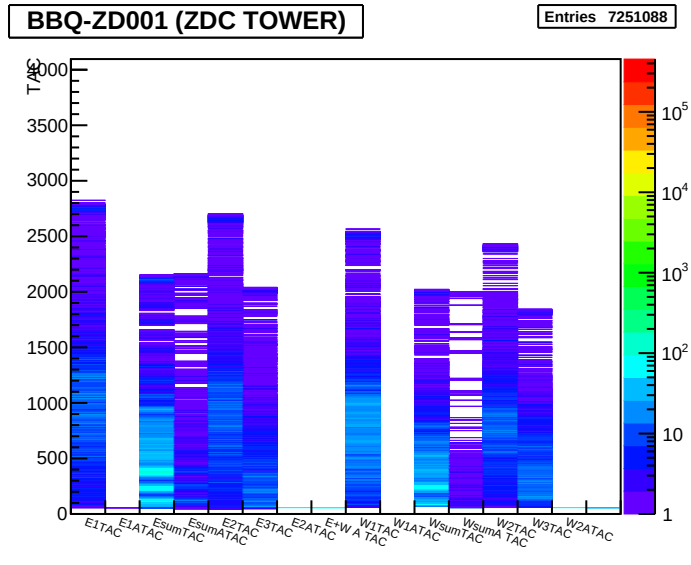

BBQ-BB001 (BBC east small tiles ADC)
Entries 7251088
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

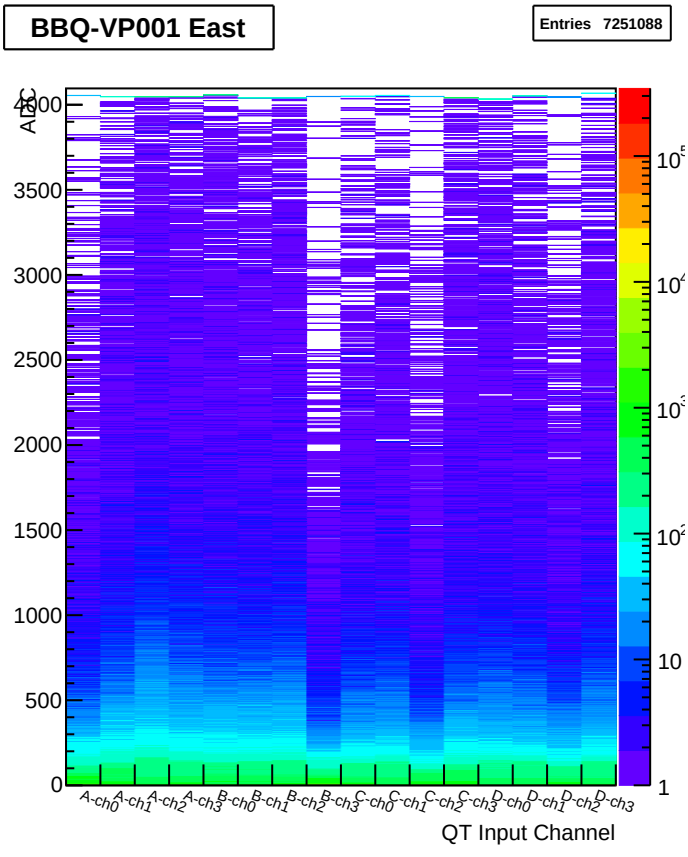

BBQ-BB001 (BBC east small tiles TAC)
Entries 7251088
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

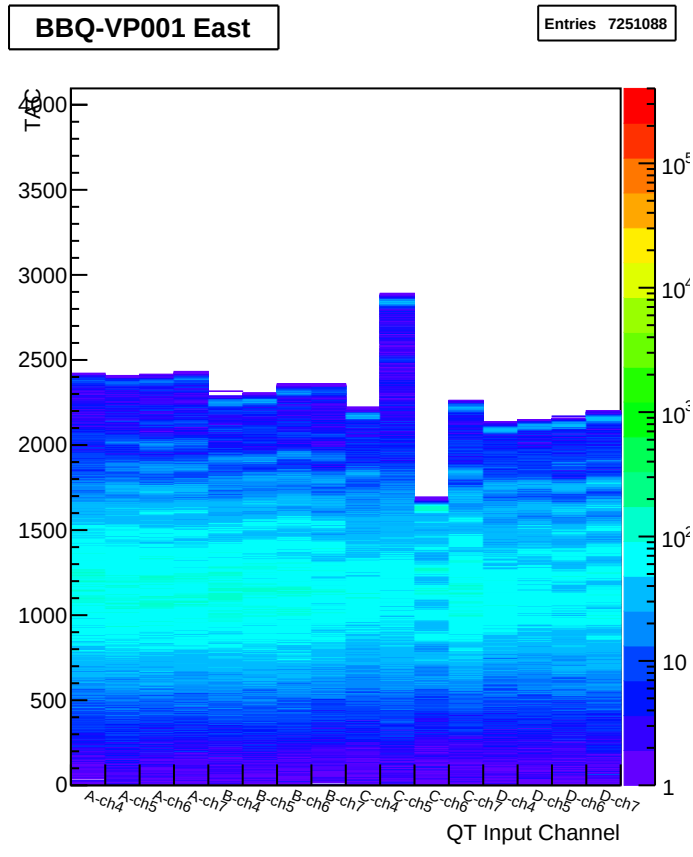

BBQ-BB002 (BBC west small tiles ADC)
Entries 7251088
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

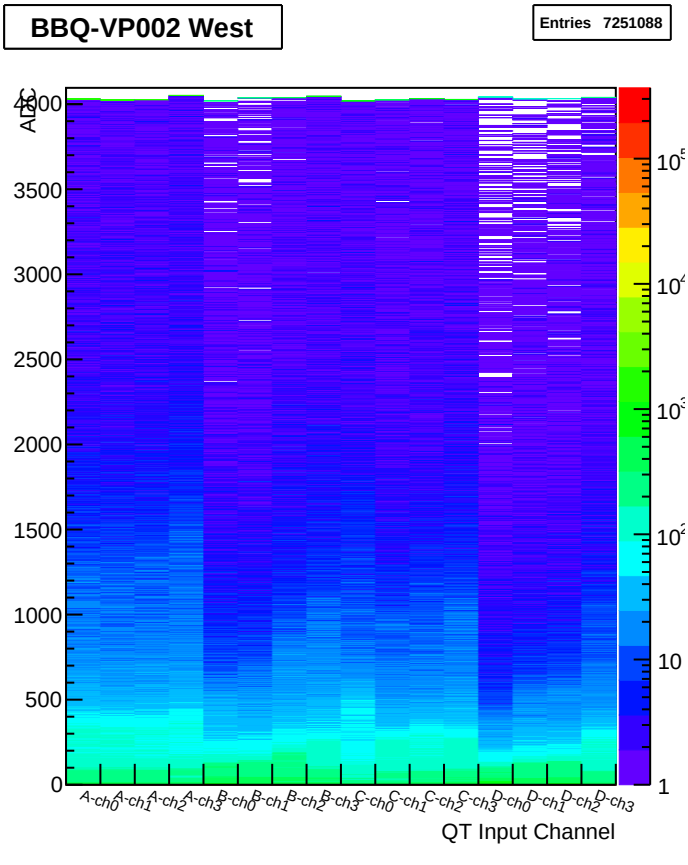

BBQ-BB002 (BBC west small tiles TAC)
Entries 7251088
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

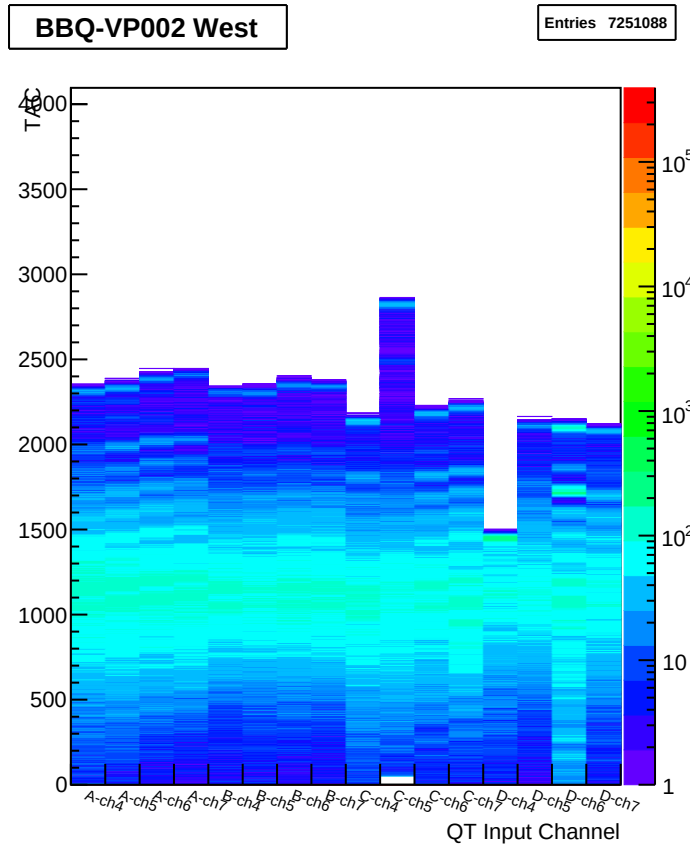

BBQ-ZD001 (ZDC TOWER)
Entries 7251088
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

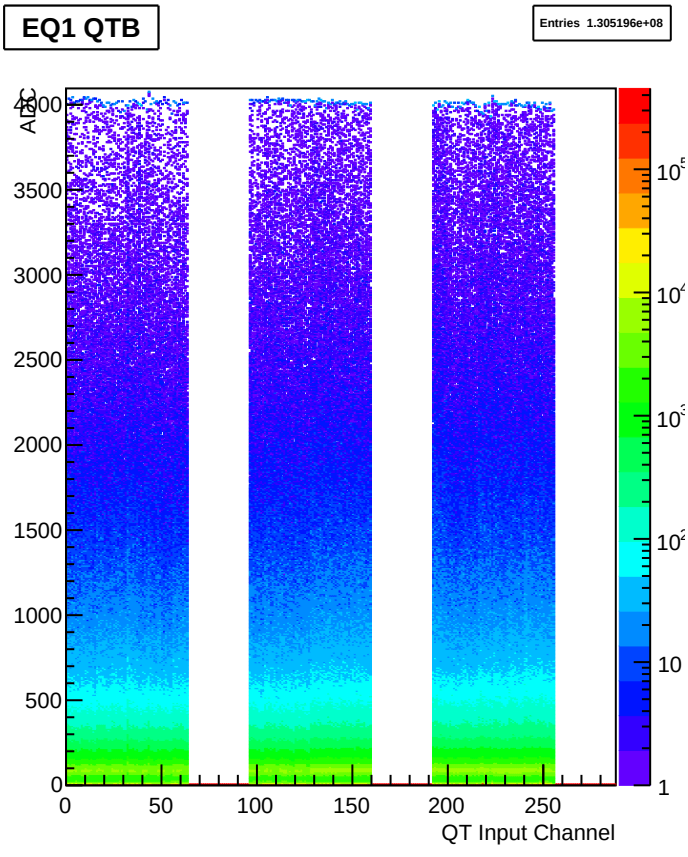

BBQ-ZD001 (ZDC TOWER)
Entries 7251088
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

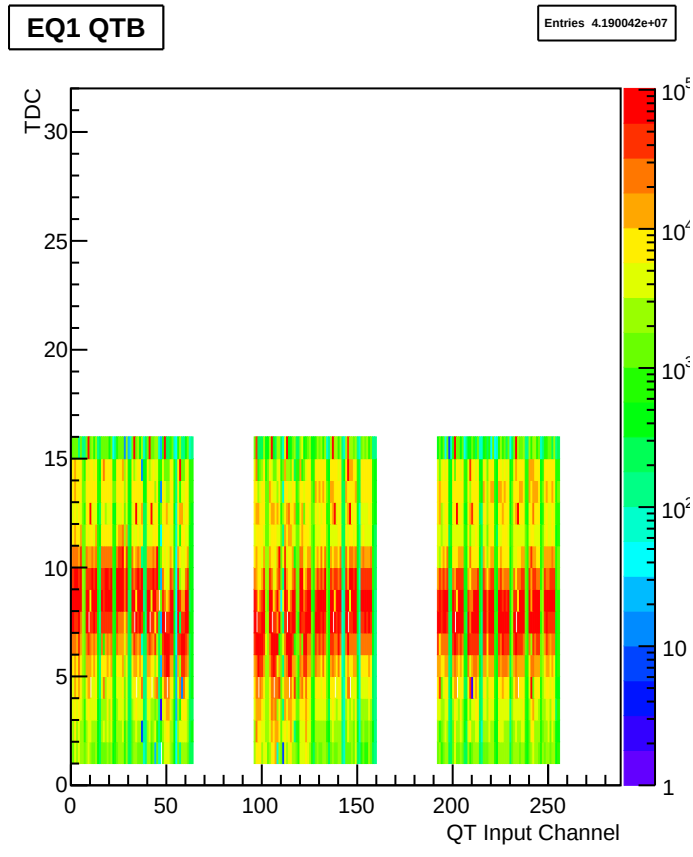

BBQ-VP001 East
Entries 7251088
ADC
QT Input Channel

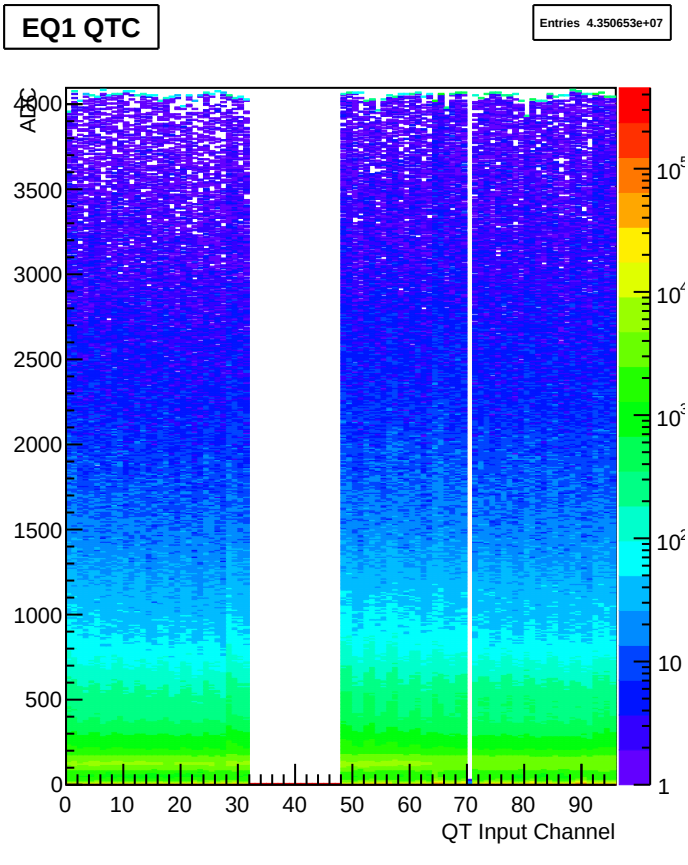

BBQ-VP001 East
Entries 7251088
TADC
QT Input Channel

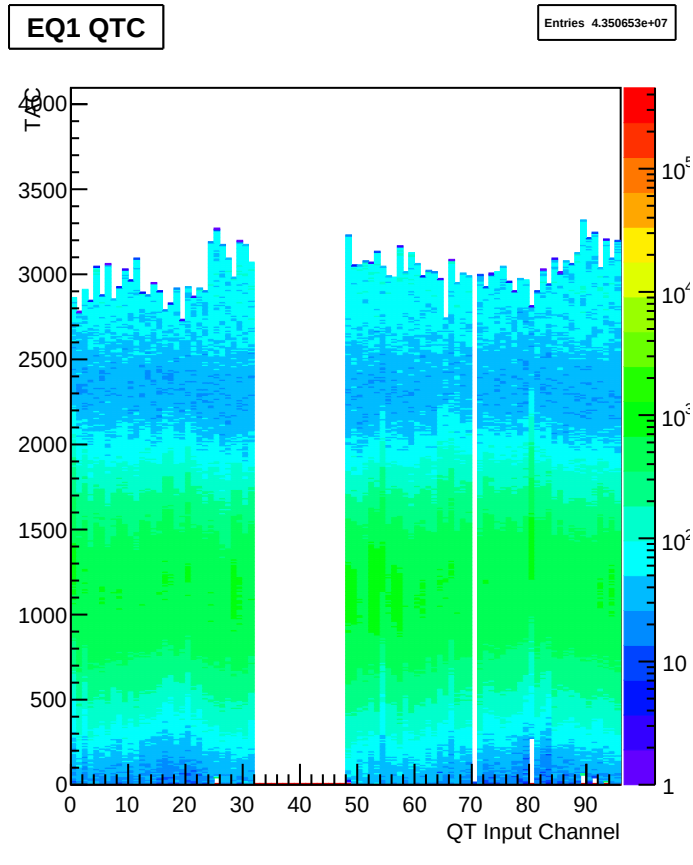

BBQ-VP002 West
Entries 7251088
ADC
QT Input Channel

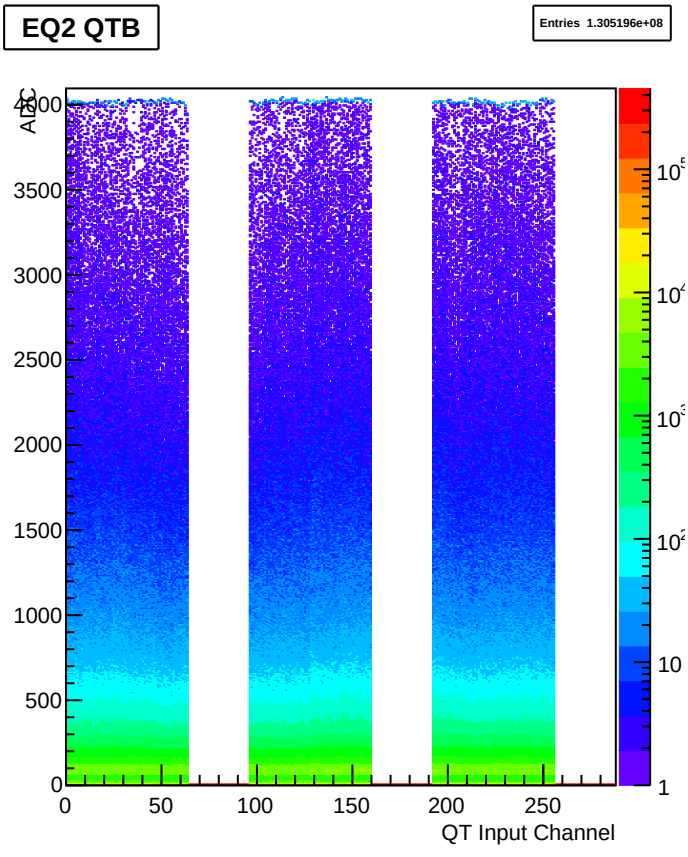

BBQ-VP002 West
Entries 7251088
TADC
QT Input Channel

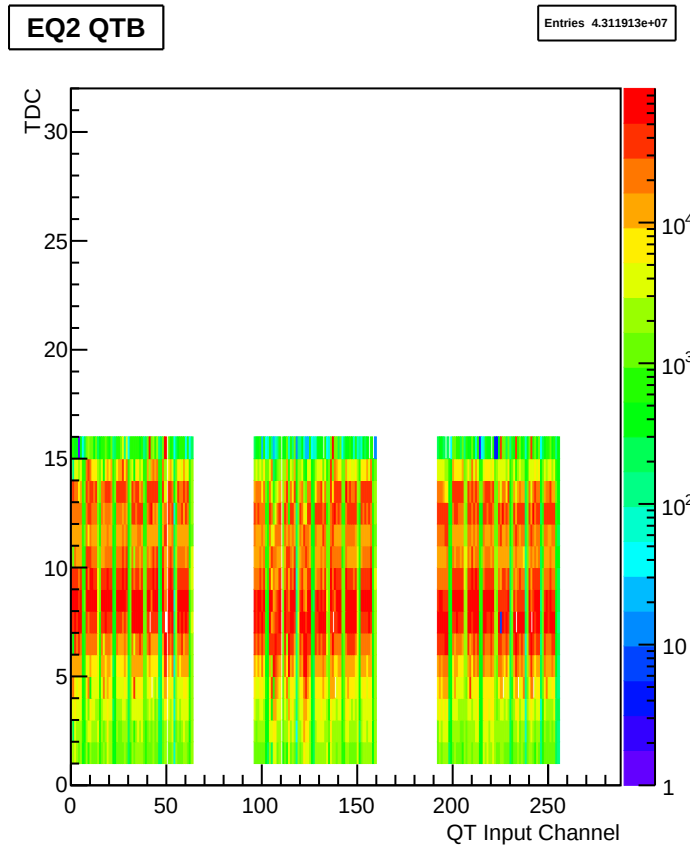

EQ1 QTB
Entries 1.305196e+08
ADC
QT Input Channel

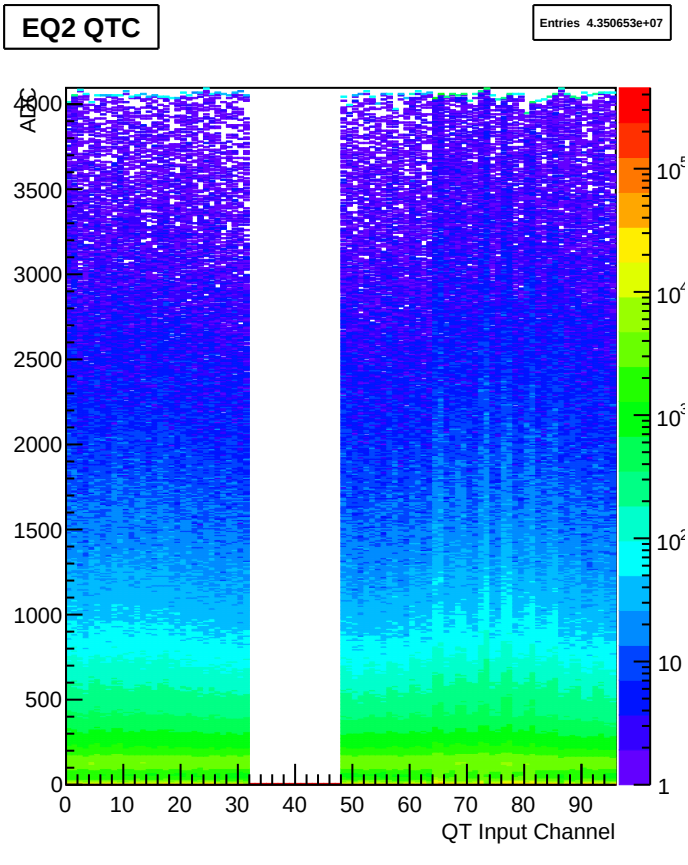

EQ1 QTB
Entries 4.190042e+07
TDC
QT Input Channel

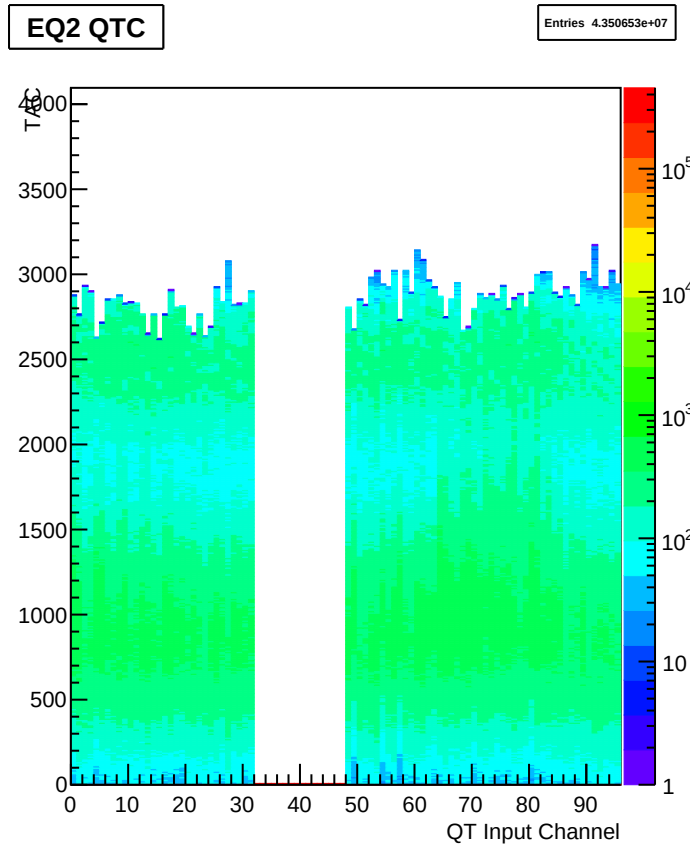

EQ1 QTC
Entries 4.350653e+07
ADC
QT Input Channel

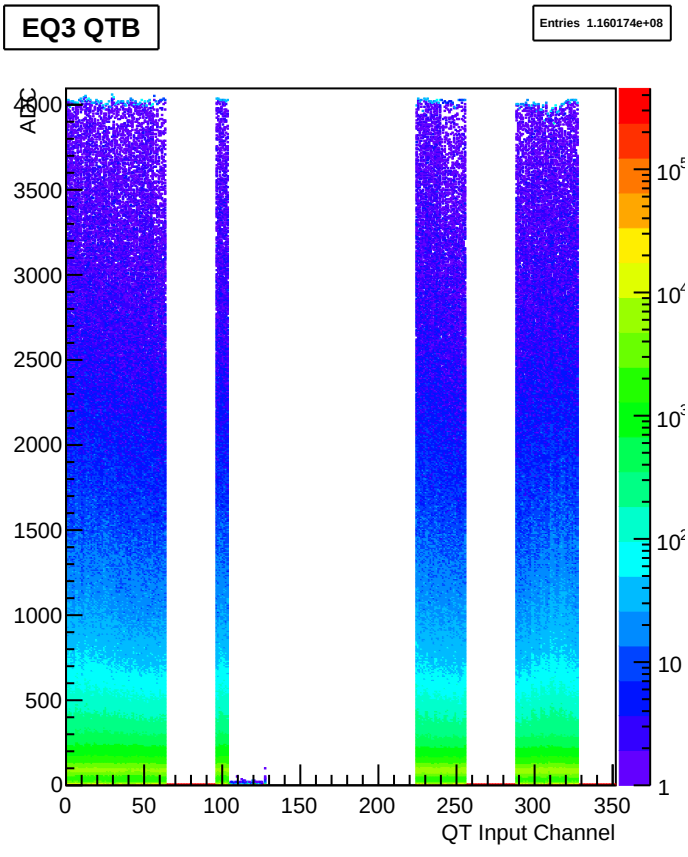

EQ1 QTC
Entries 4.350653e+07
TADC
QT Input Channel

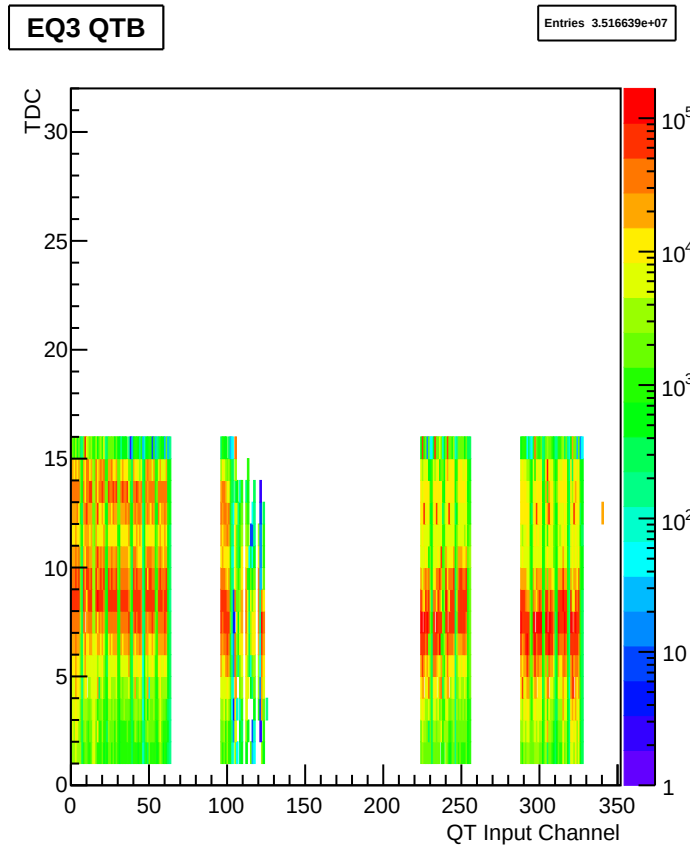

EQ2 QTB
Entries 1.305196e+08
ADC
QT Input Channel

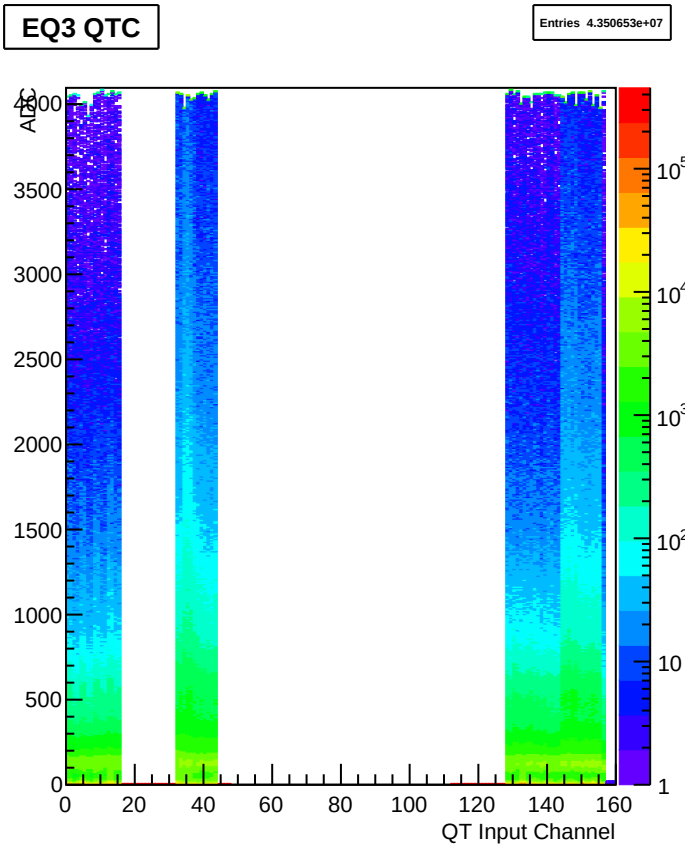

EQ2 QTB
Entries 4.311913e+07
TDC
QT Input Channel

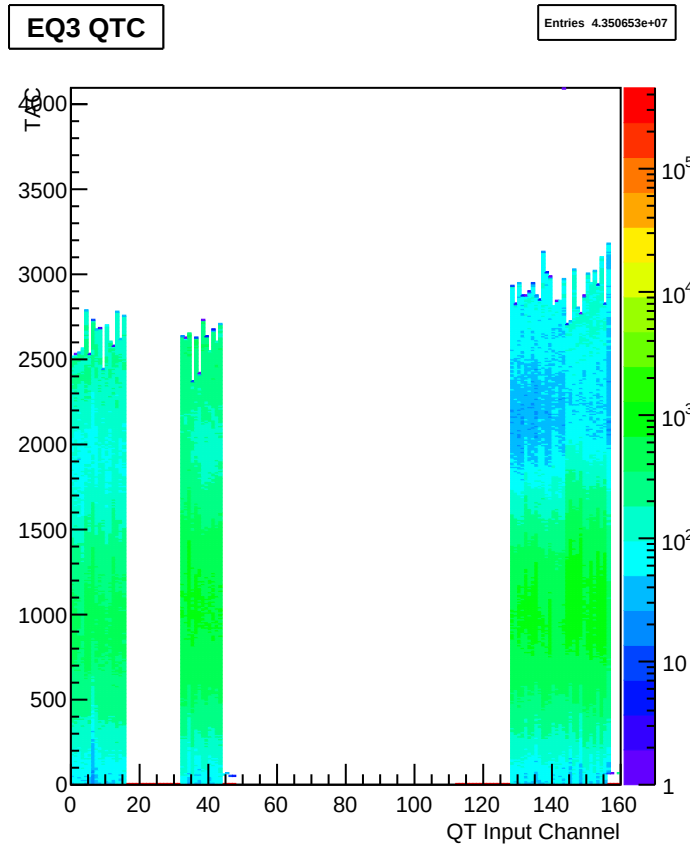

EQ2 QTC
Entries 4.350653e+07
ADC
QT Input Channel

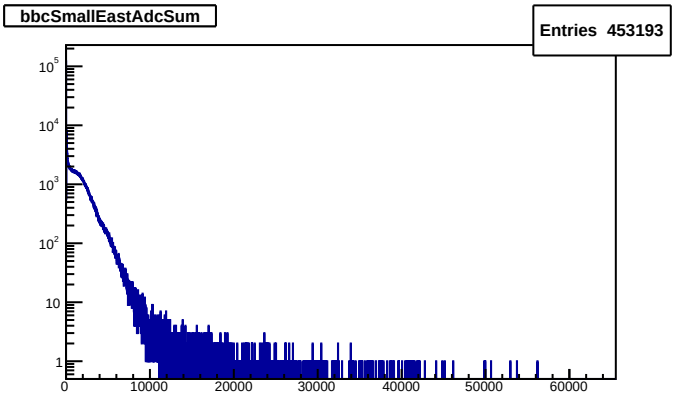

EQ2 QTC
Entries 4.350653e+07
TADC
QT Input Channel

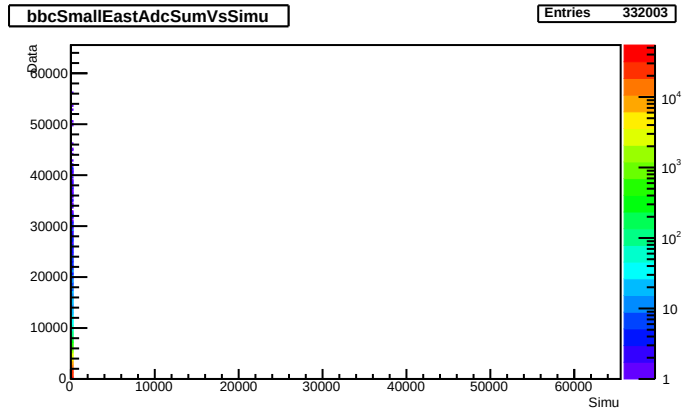

EQ3 QTB
Entries 1.160174e+08
ADC
QT Input Channel

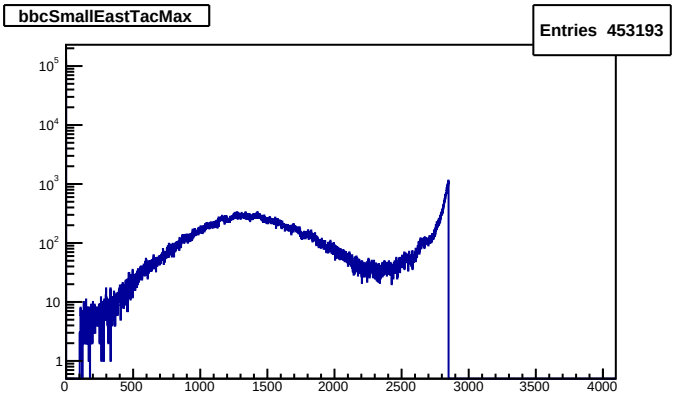

EQ3 QTB
Entries 3.516639e+07
TDC
QT Input Channel

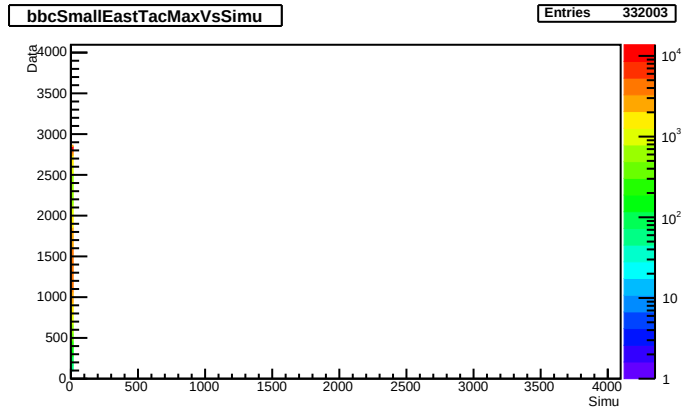

EQ3 QTC
Entries 4.350653e+07
ADC
QT Input Channel

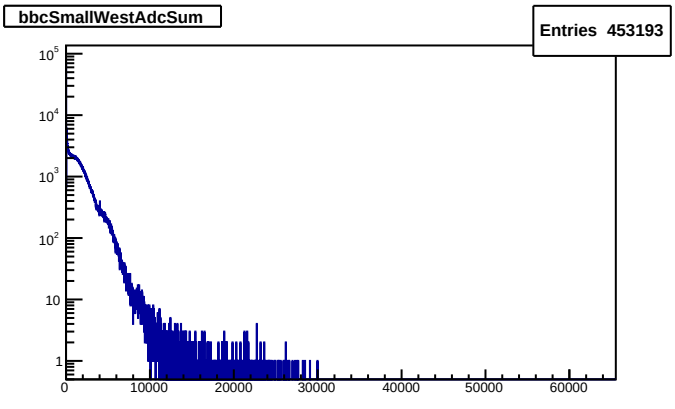

EQ3 QTC
Entries 4.350653e+07
TADC
QT Input Channel

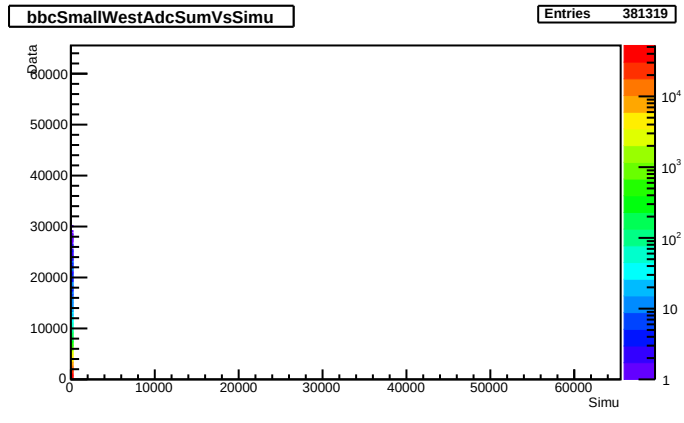

bbcSmallEastAdcSum
Entries 453193

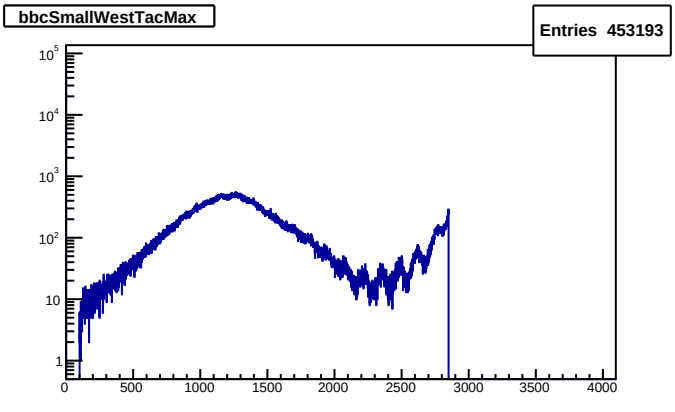

bbcSmallEastAdcSumVsSimu
Entries 332003
Data
Simu

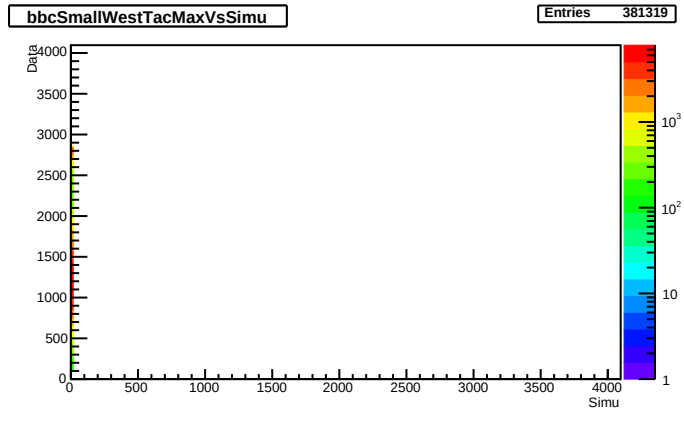

bbcSmallEastTacMax
Entries 453193

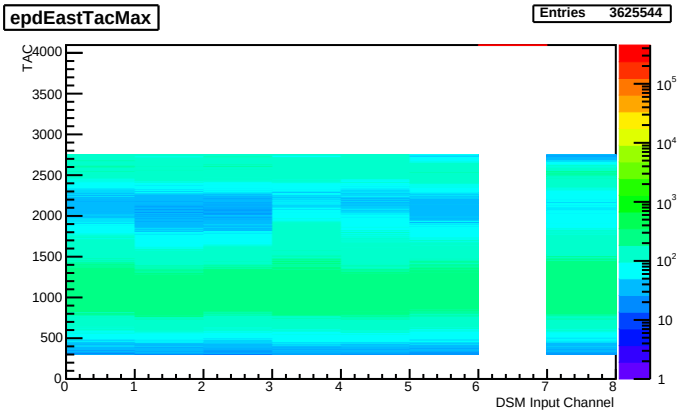

bbcSmallEastTacMaxVsSimu
Entries 332003
Data
Simu

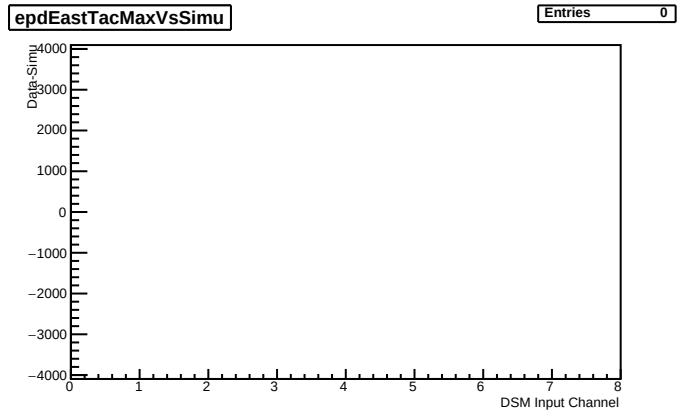

bbcSmallWestAdcSum
Entries 453193

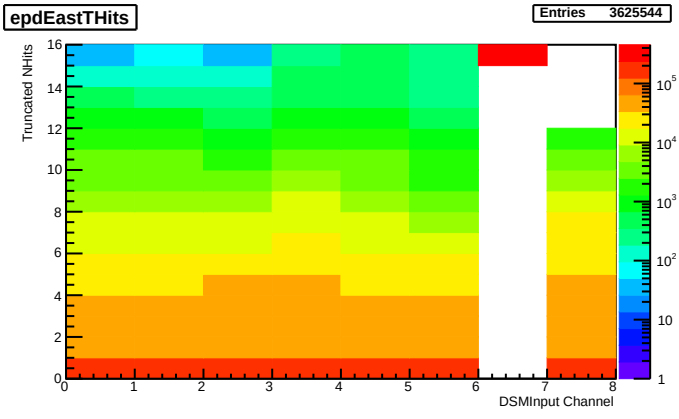

bbcSmallWestAdcSumVsSimu
Entries 381319
Data
Simu

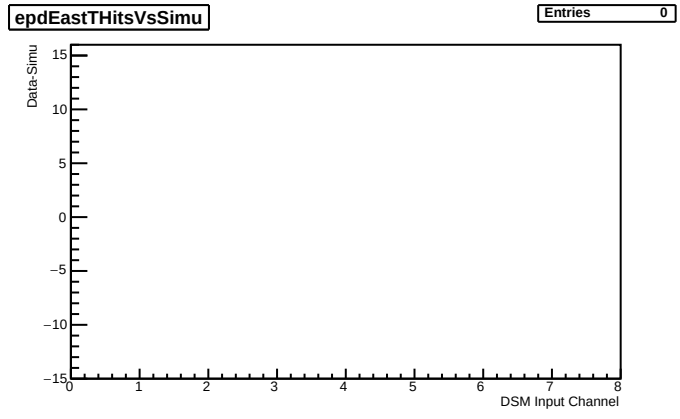

bbcSmallWestTacMax
Entries 453193


bbcSmallWestTacMaxVsSimu
Entries 381319
Data
Simu


epdEastTacMax
Entries 3625544
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3625544
Truncated NHits
DSMInput Channel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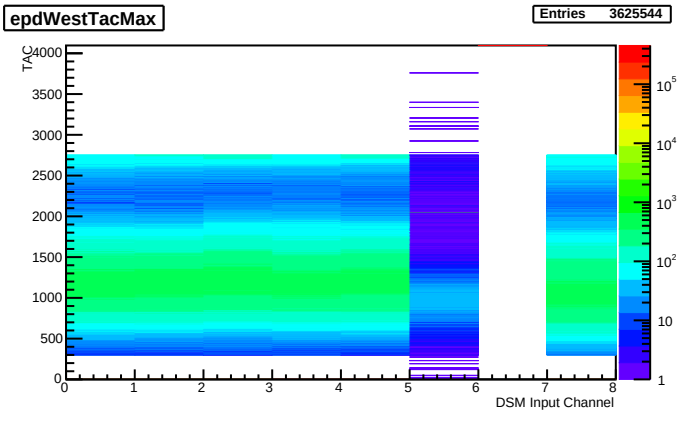
Entries 0
Data-Simu
DSM Input Channel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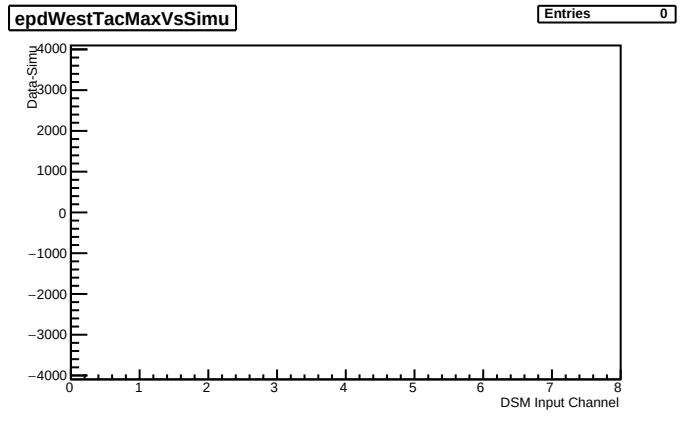
Entries 3625544
TAC
DSM Input Channel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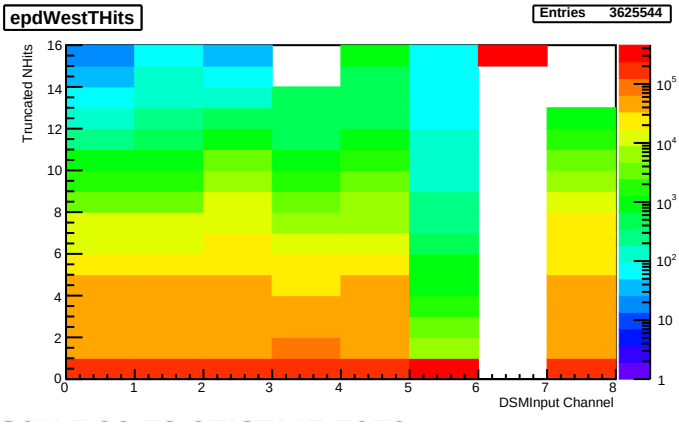
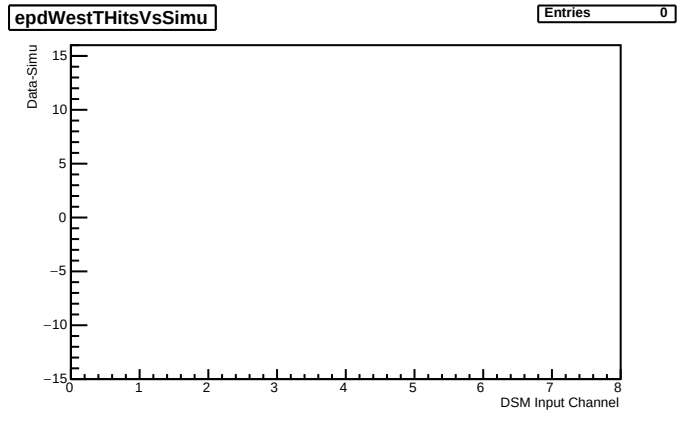
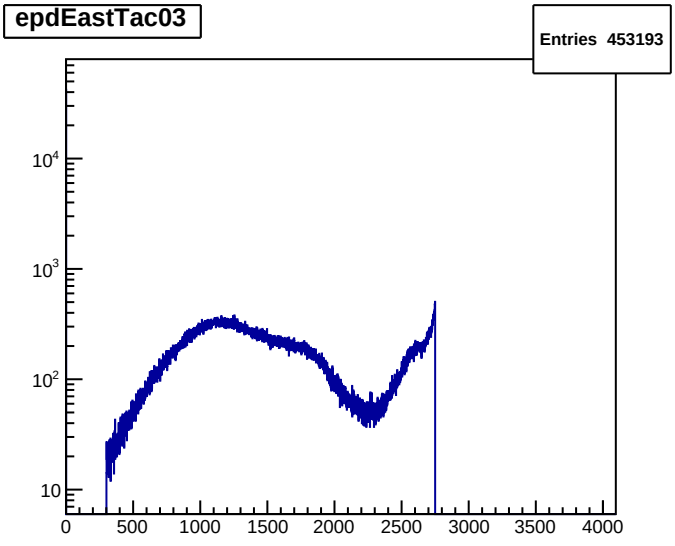
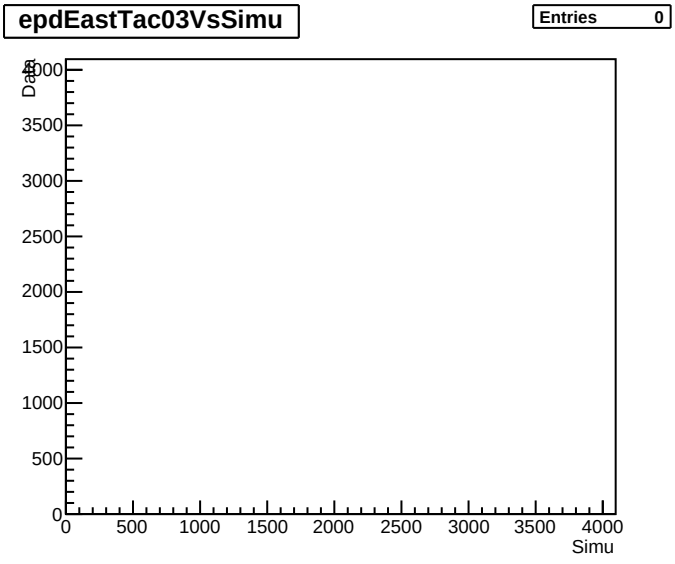
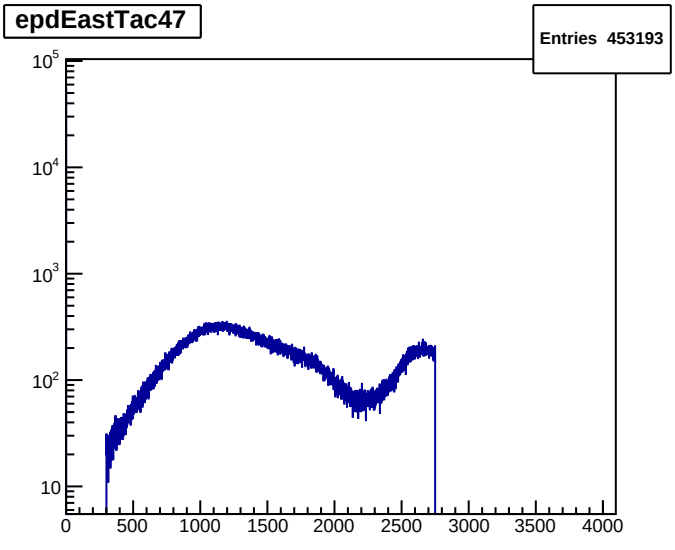
Data-Simu
DSM Input Channel

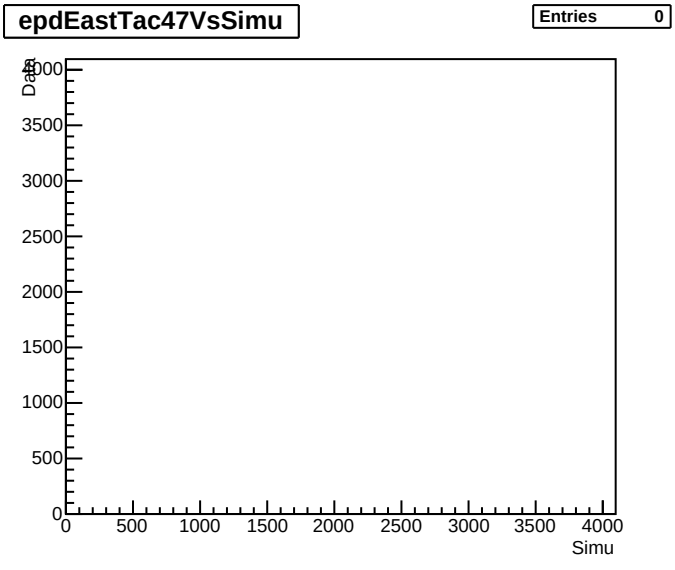

epdWestTHits
Entries 3625544
Truncated NHits
DSMInput Channel

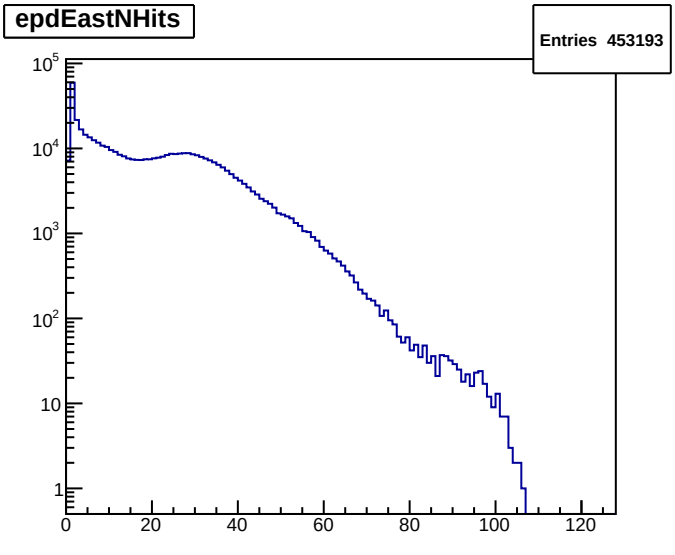

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

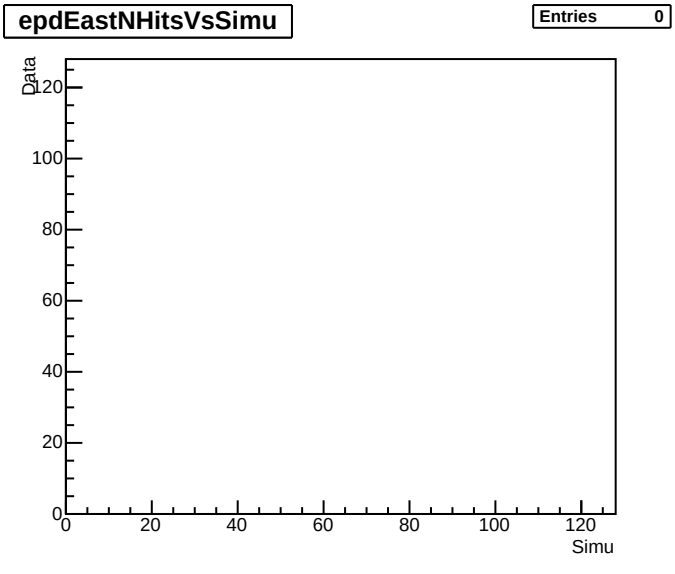

epdEastTac03
Entries 453193


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 453193


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 453193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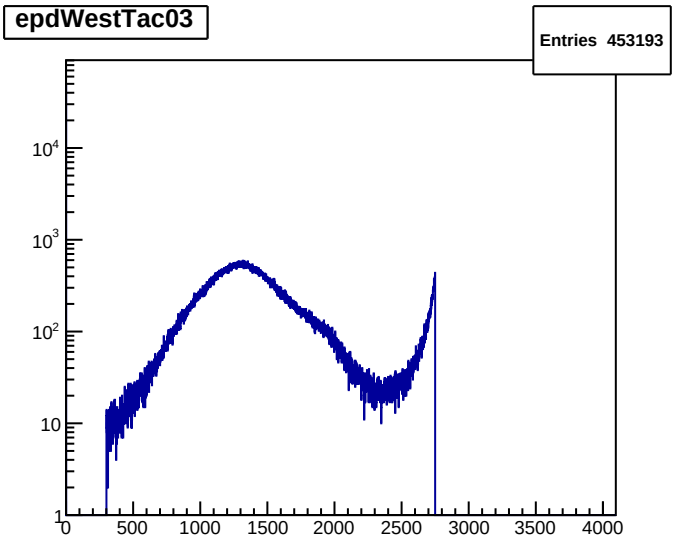
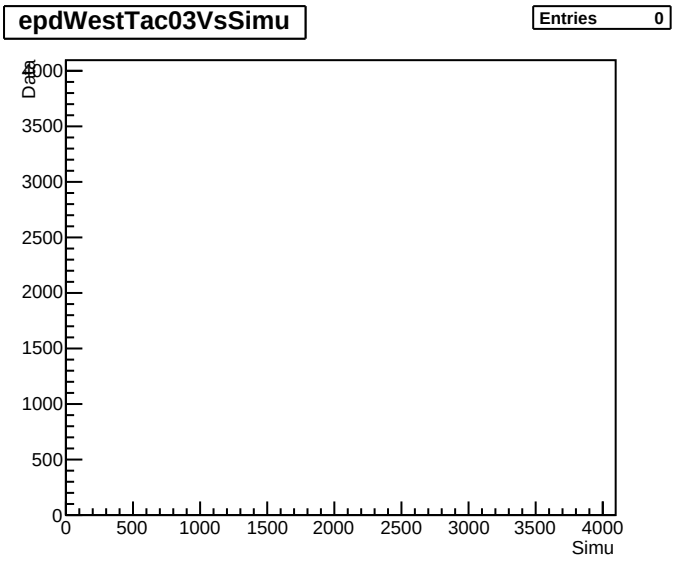
Entries 0
Data
Simu


epdWestTac03
Entries 453193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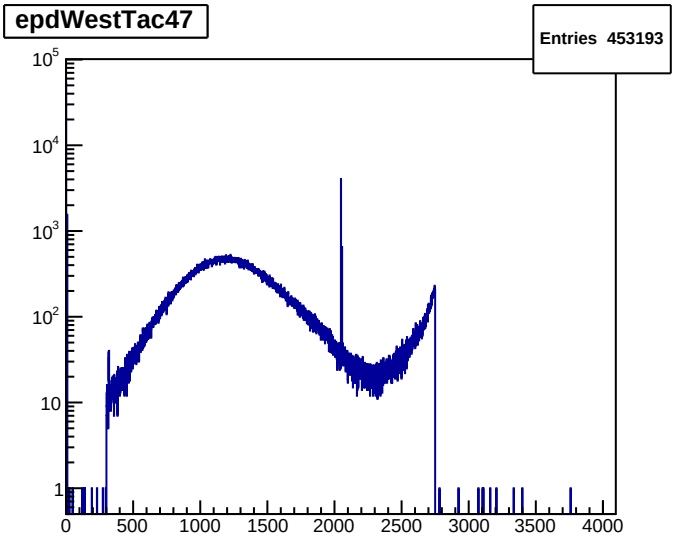
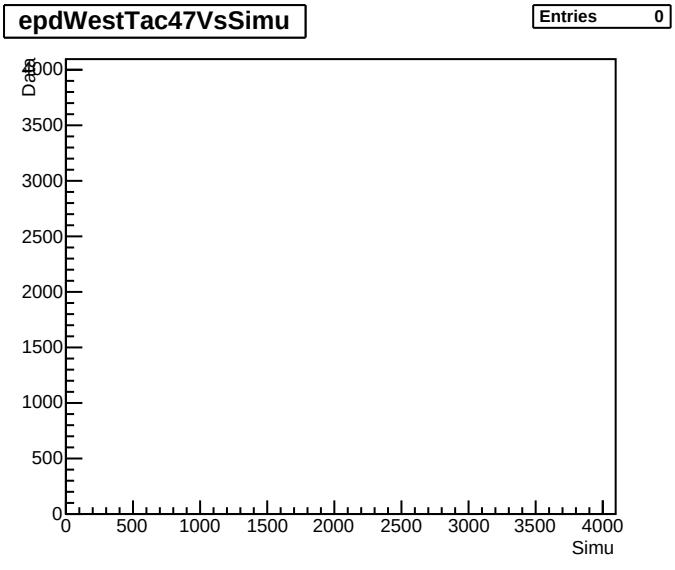
Entries 0
Data
Simu


epdWestTac47
Entries 453193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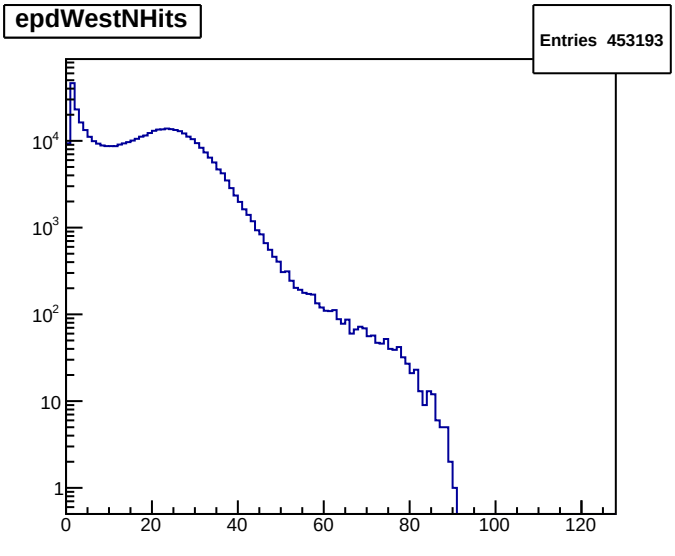
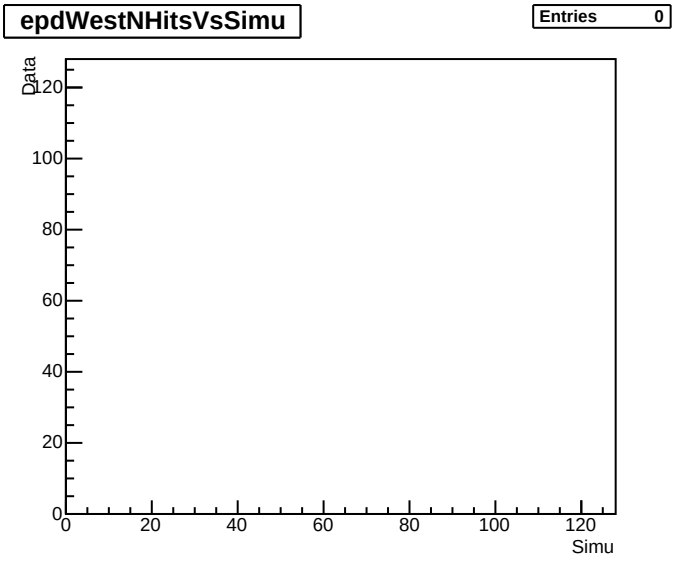
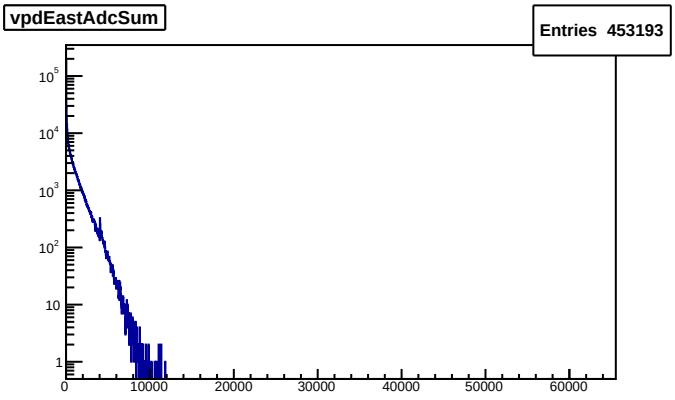
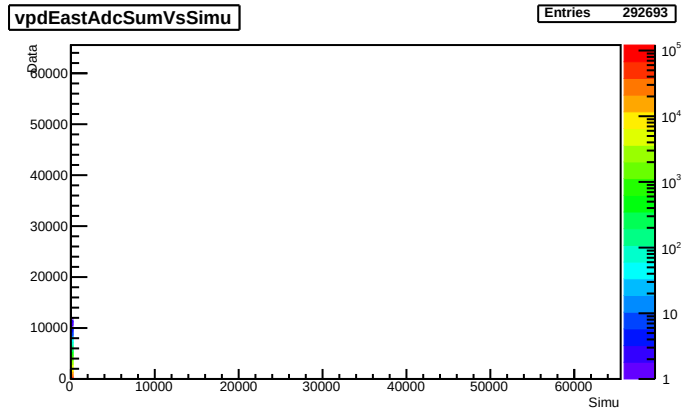
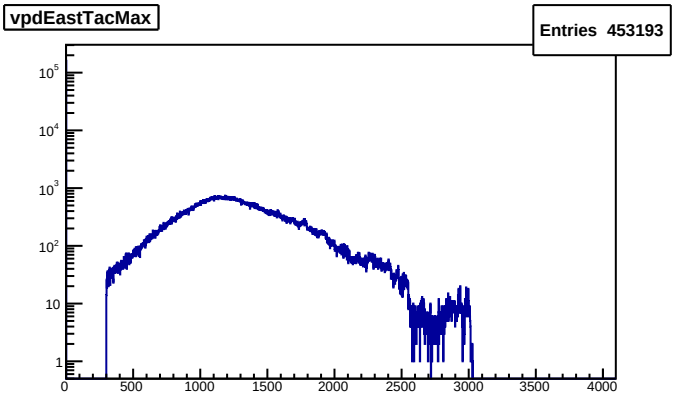
Entries 0
Data
Simu

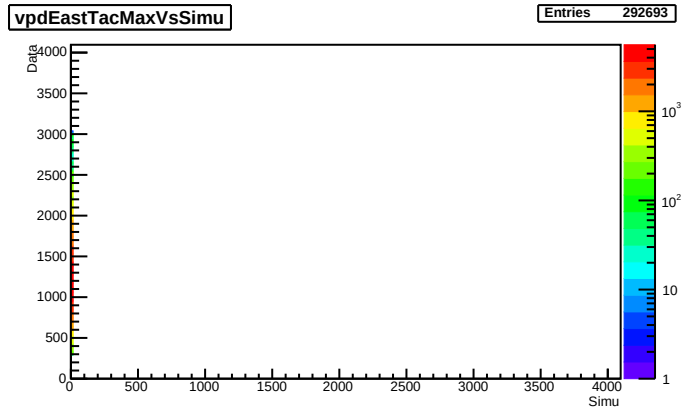

epdWestNHits
Entries 453193

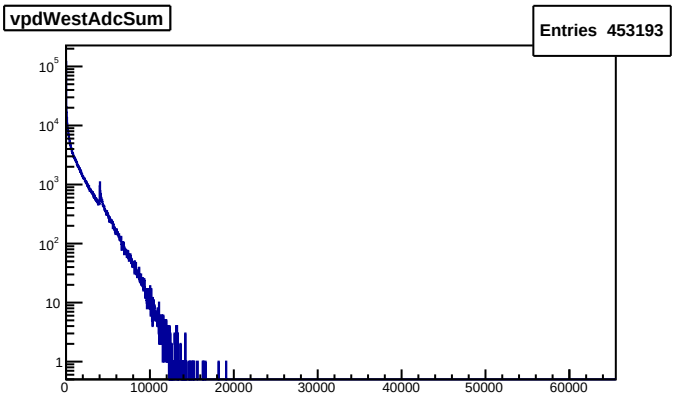

epdWestNHitsVsSimu
Entries 0
Data
Simu

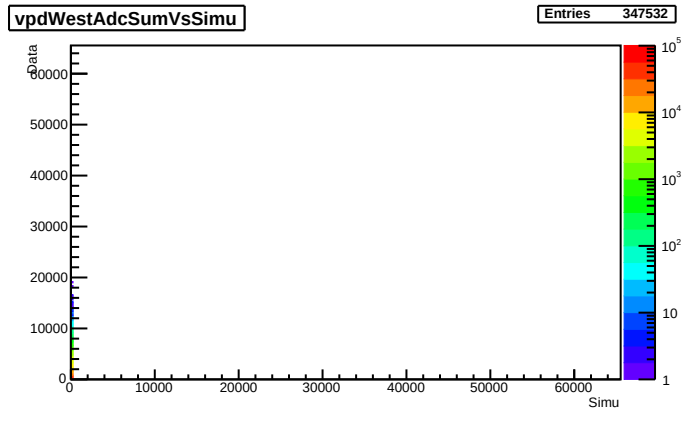

vpdEastAdcSum
Entries 453193

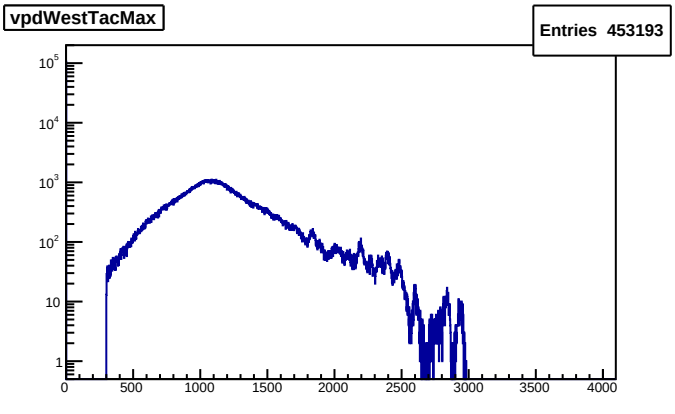

vpdEastAdcSumVsSimu
Entries 292693
Data
Simu

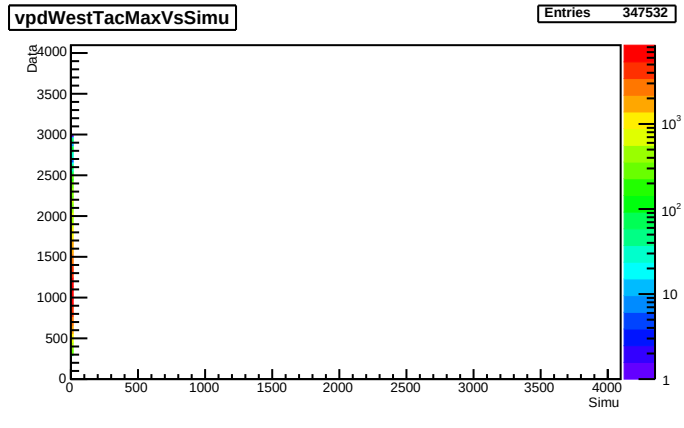

vpdEastTacMax
Entries 453193

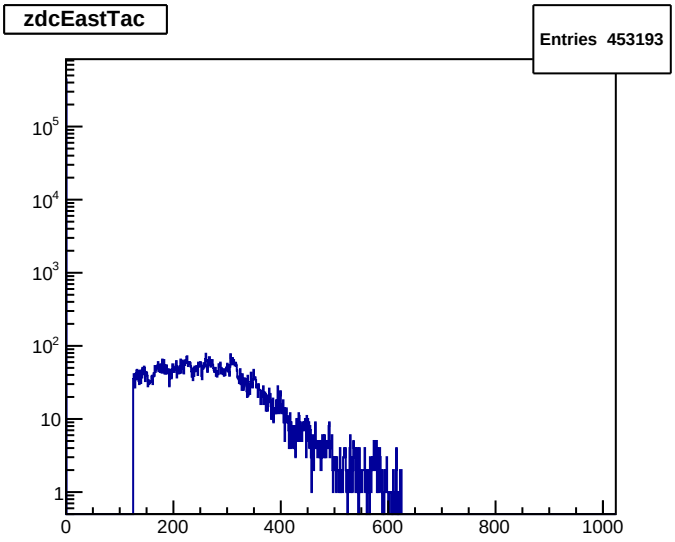

vpdEastTacMaxVsSimu
Entries 292693
Data
Simu

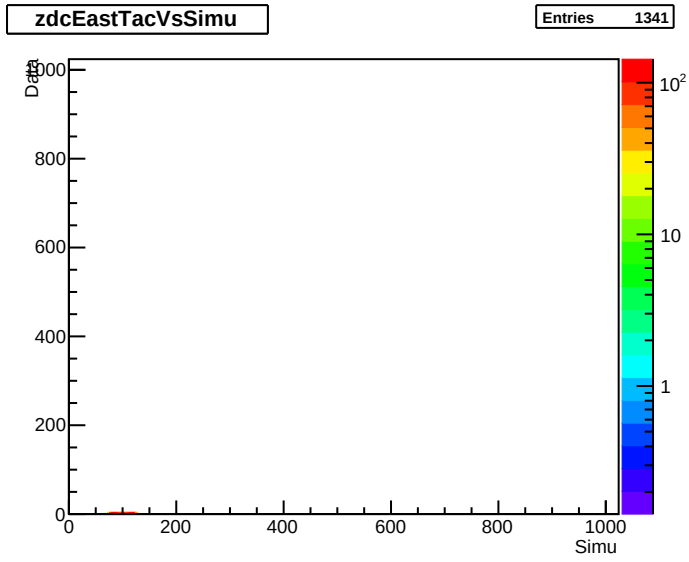

vpdWestAdcSum
Entries 453193

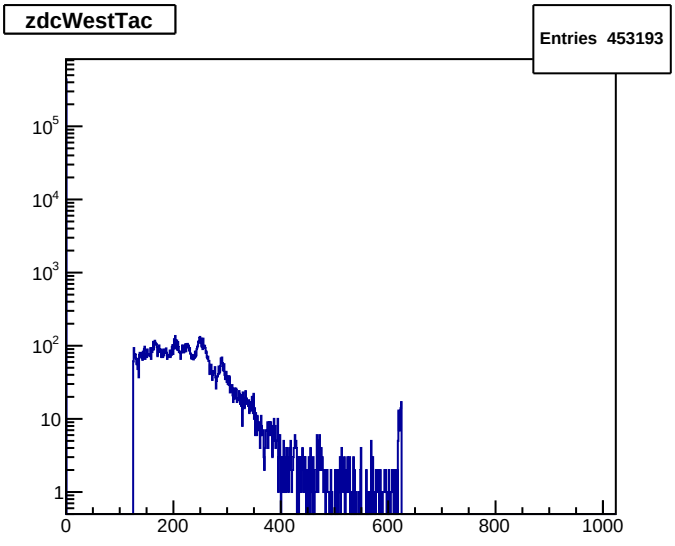

vpdWestAdcSumVsSimu
Entries 347532
Data
Simu

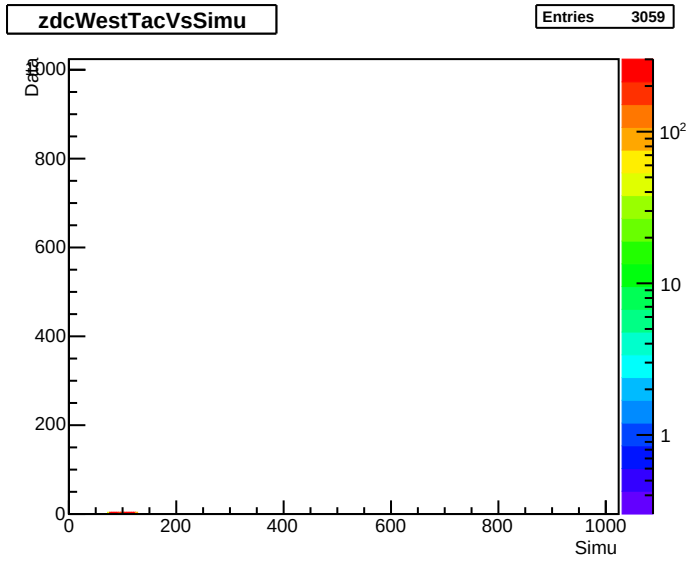

vpdWestTacMax
Entries 453193

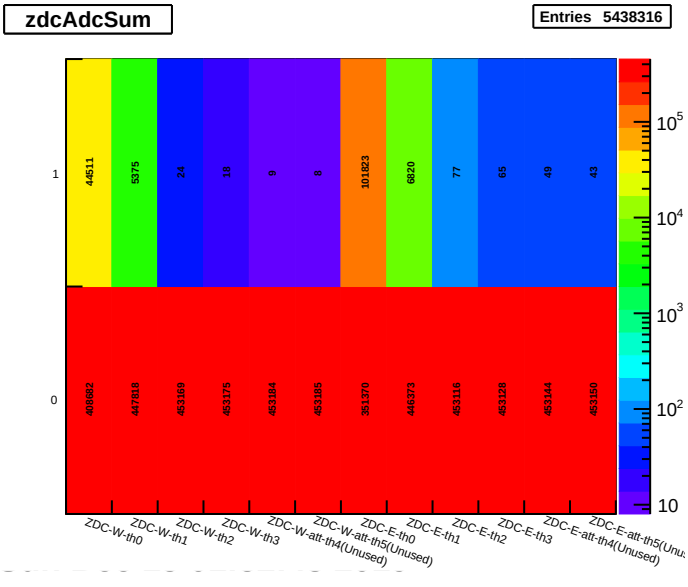

vpdWestTacMaxVsSimu
Entries 347532
Data
Simu

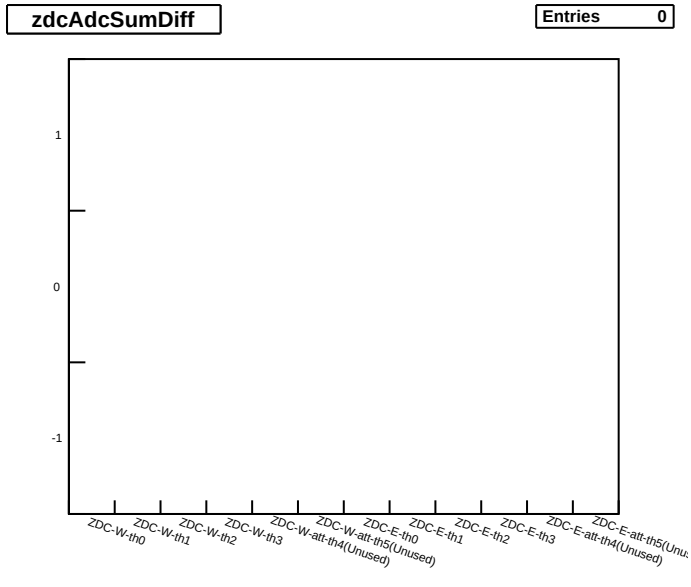

zdcEastTac
Entries 453193

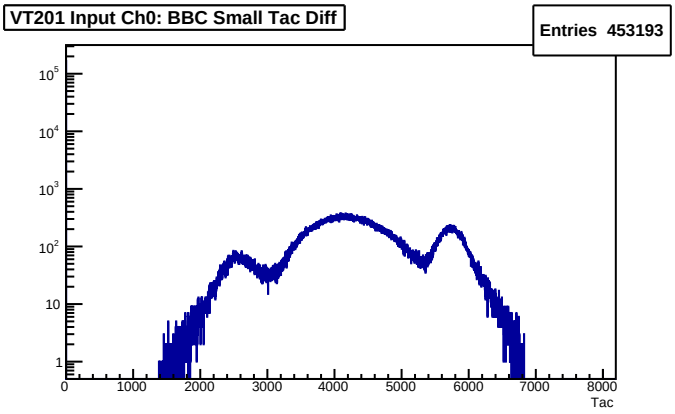

zdcEastTacVsSimu
Entries 1341
Data
Simu

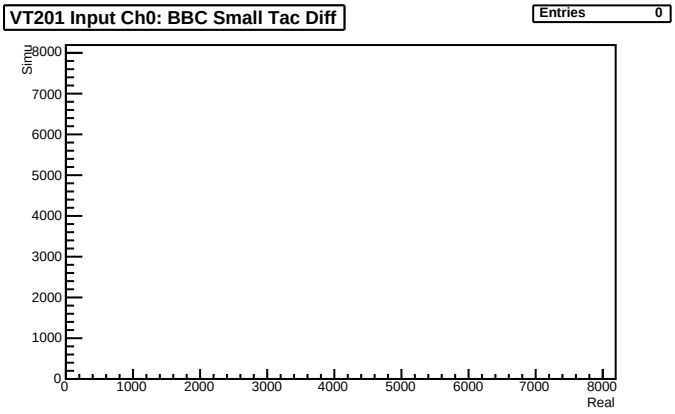

zdcWestTac
Entries 453193

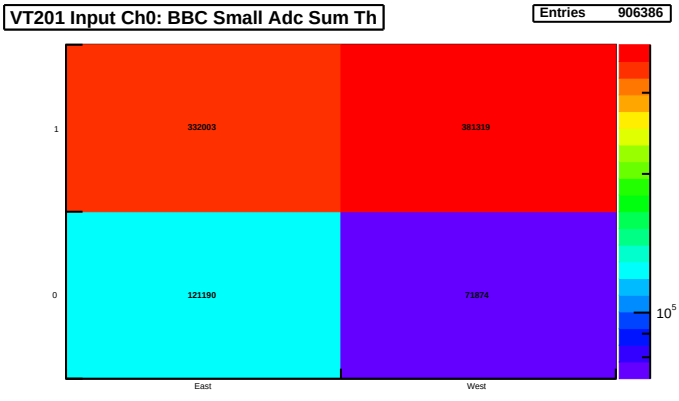

zdcWestTacVsSimu
Entries 3059
Data
Simu

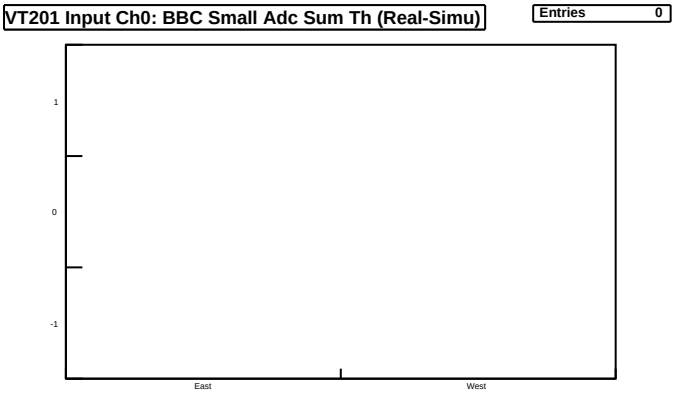

zdcAdcSum
Entries 5438316
44611
5375
24
18
9
8
101823
6820
77
65
49
43
408682
447818
453169
453175
453184
453185
351370
446373
453116
453128
453144
453150
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

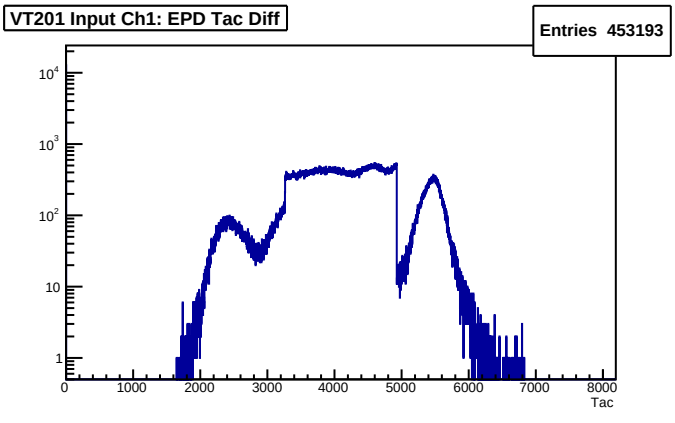

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

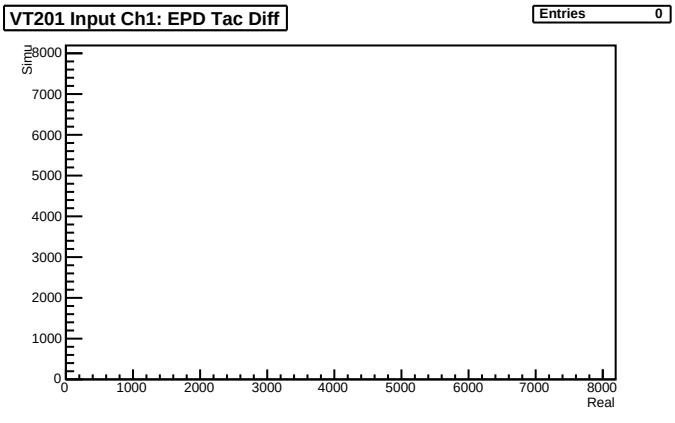

VT201 Input Ch0: BBC Small Tac Diff
Entries 453193
Tac

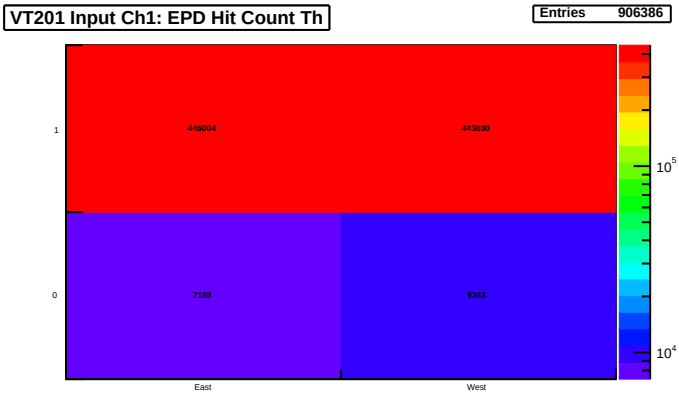

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

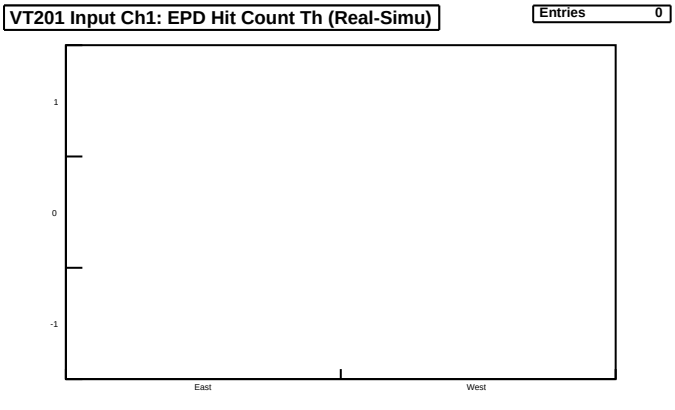

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 906386
332003
381319
121190
71874
East
West

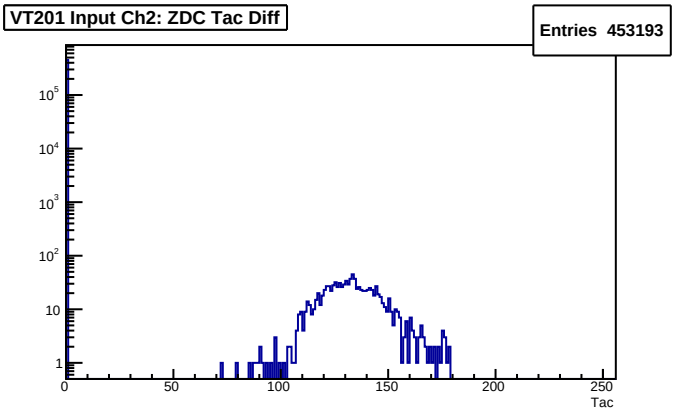

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

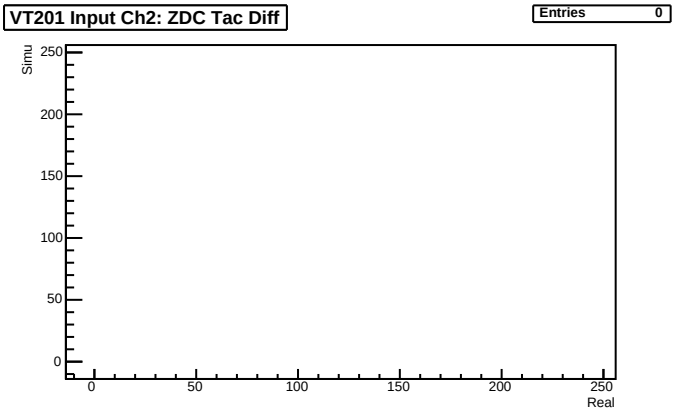

VT201 Input Ch1: EPD Tac Diff
Entries 453193
Tac

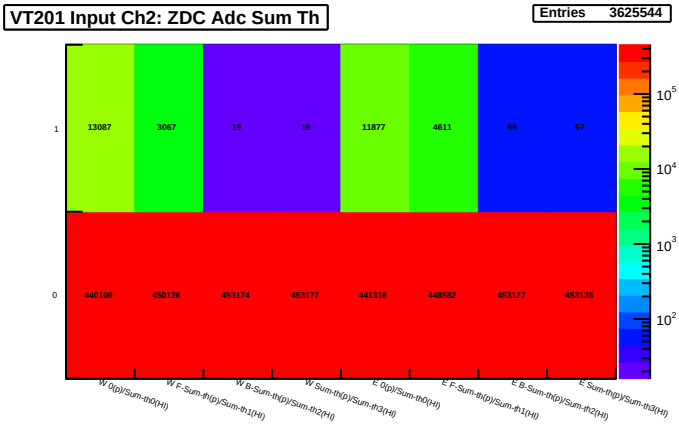

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

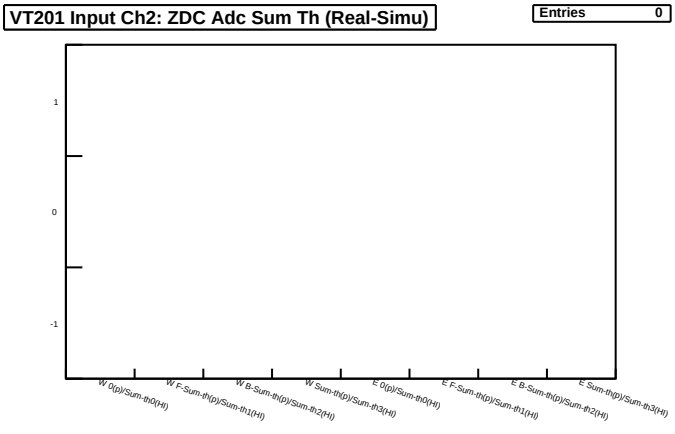

VT201 Input Ch1: EPD Hit Count Th
Entries 906386
446004
443830
7189
9363
East
West

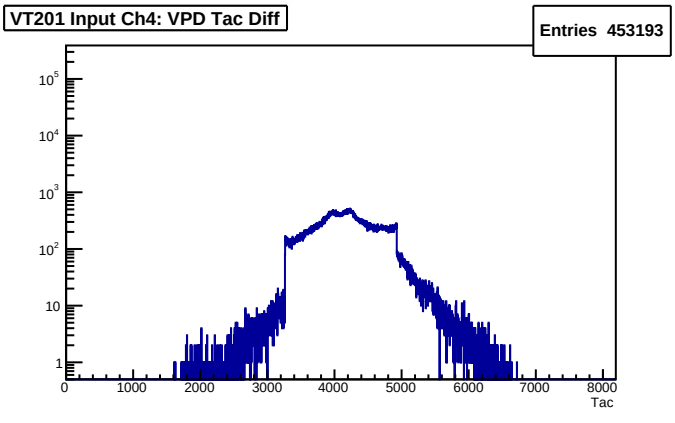

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

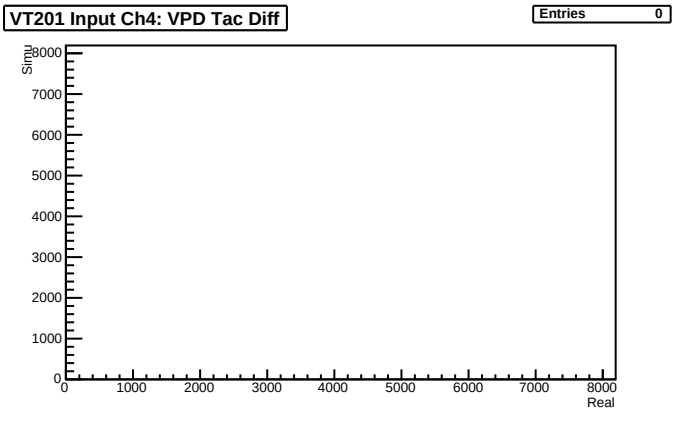

VT201 Input Ch2: ZDC Tac Diff
Entries 453193
Tac

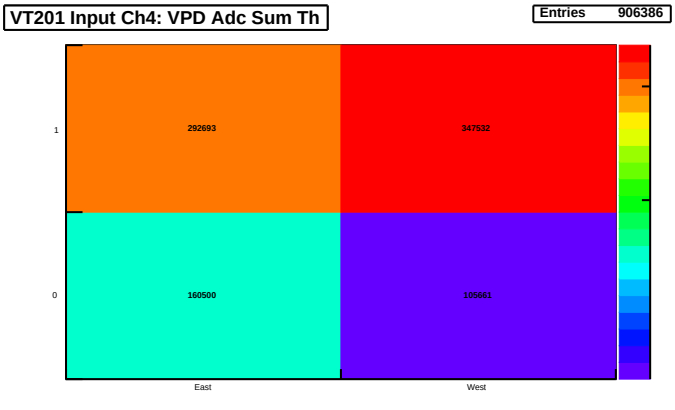

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

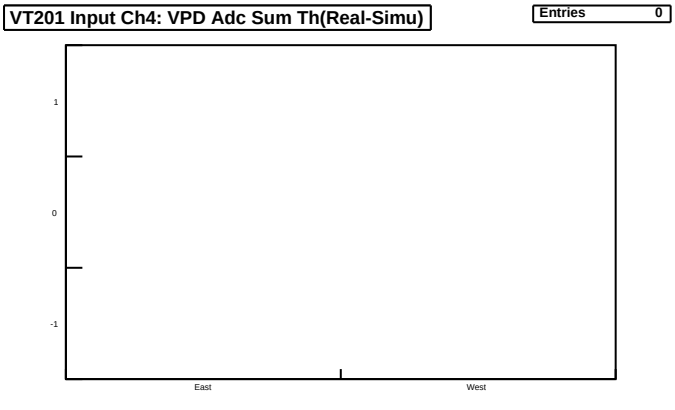

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3625544
13087
3067
19
16
11877
4611
66
57
440106
450126
453174
453177
441316
448582
453127
453136
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

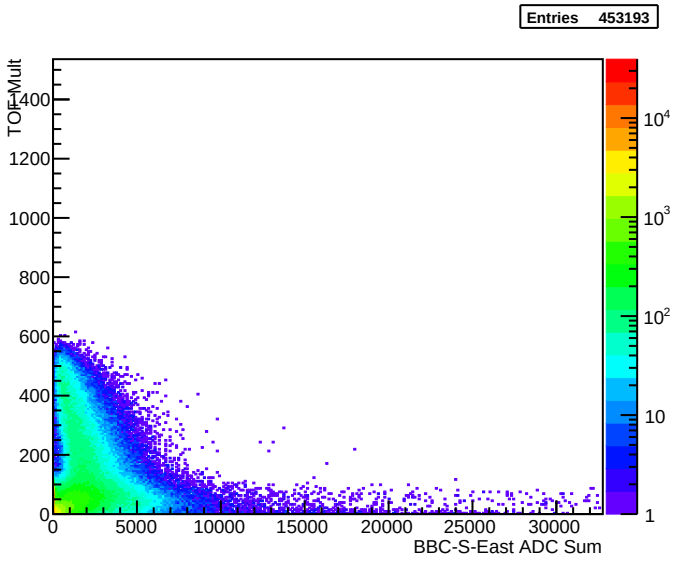

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

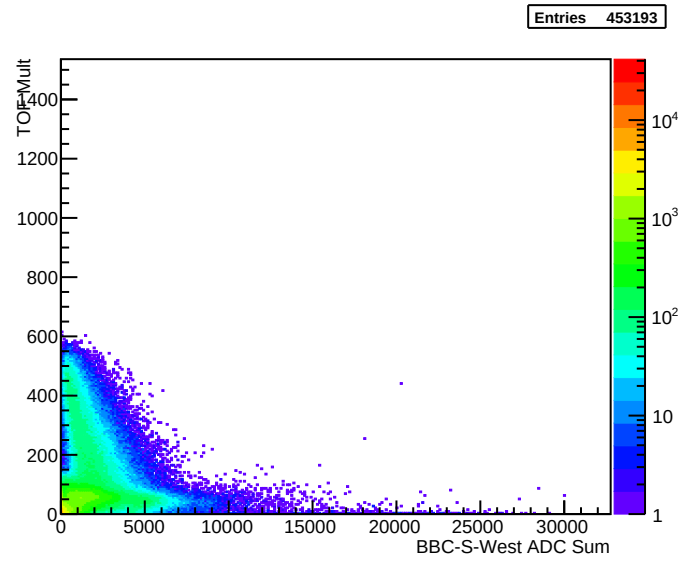

VT201 Input Ch4: VPD Tac Diff
Entries 453193
Tac

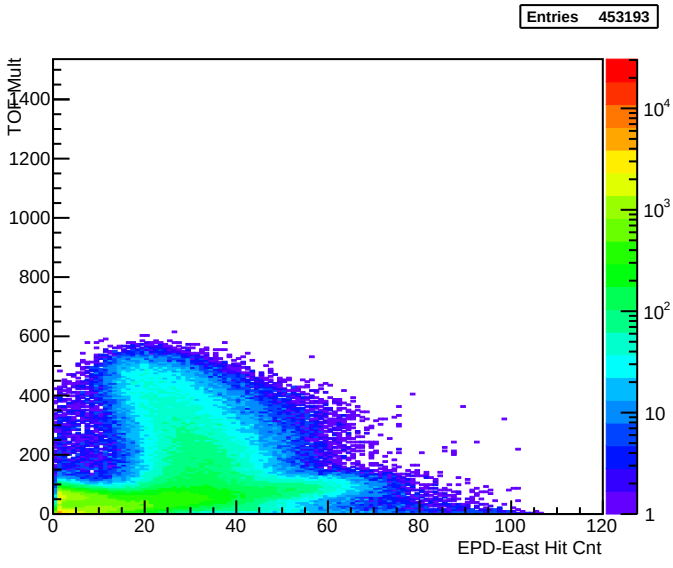

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

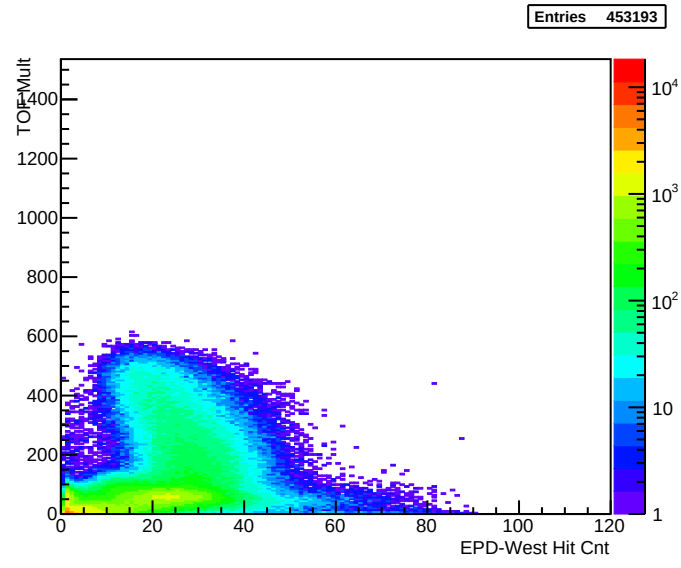

VT201 Input Ch4: VPD Adc Sum Th
Entries 906386
292693
347532
160500
105661
East
West

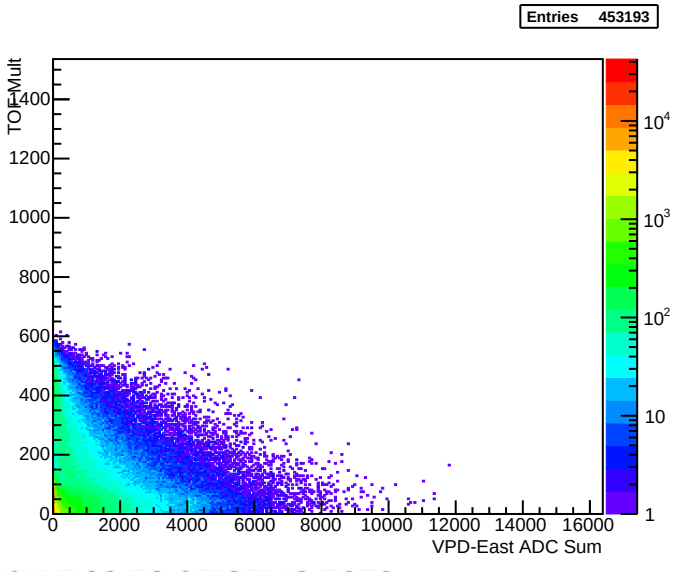

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

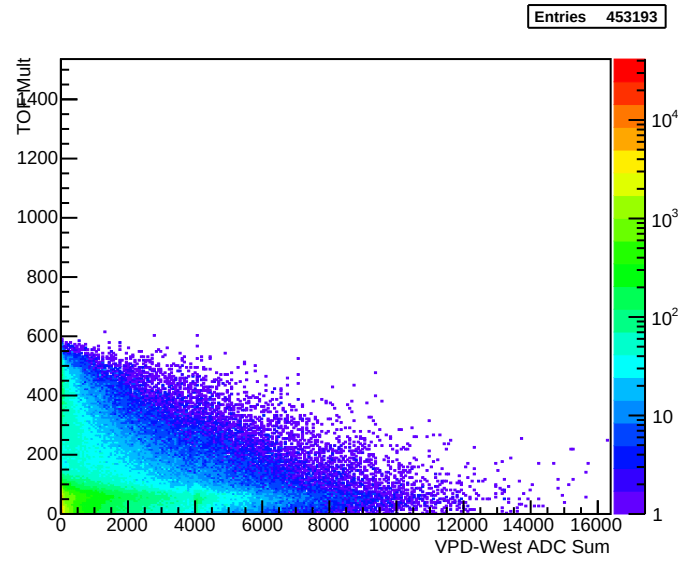

Entries 453193
TOF-Mult
BBC-S-East ADC Sum

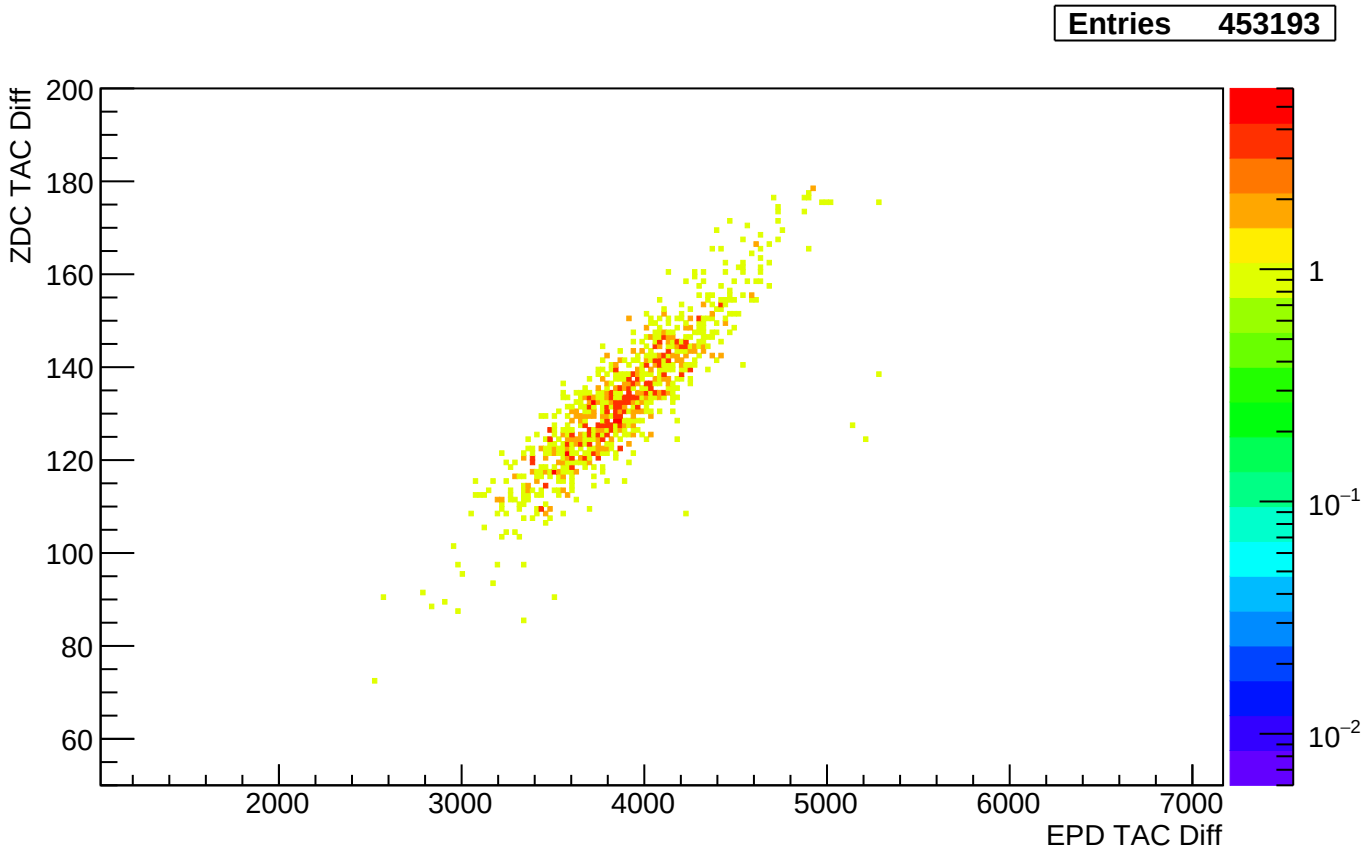

Entries 453193
TOF-Mult
BBC-S-West ADC Sum

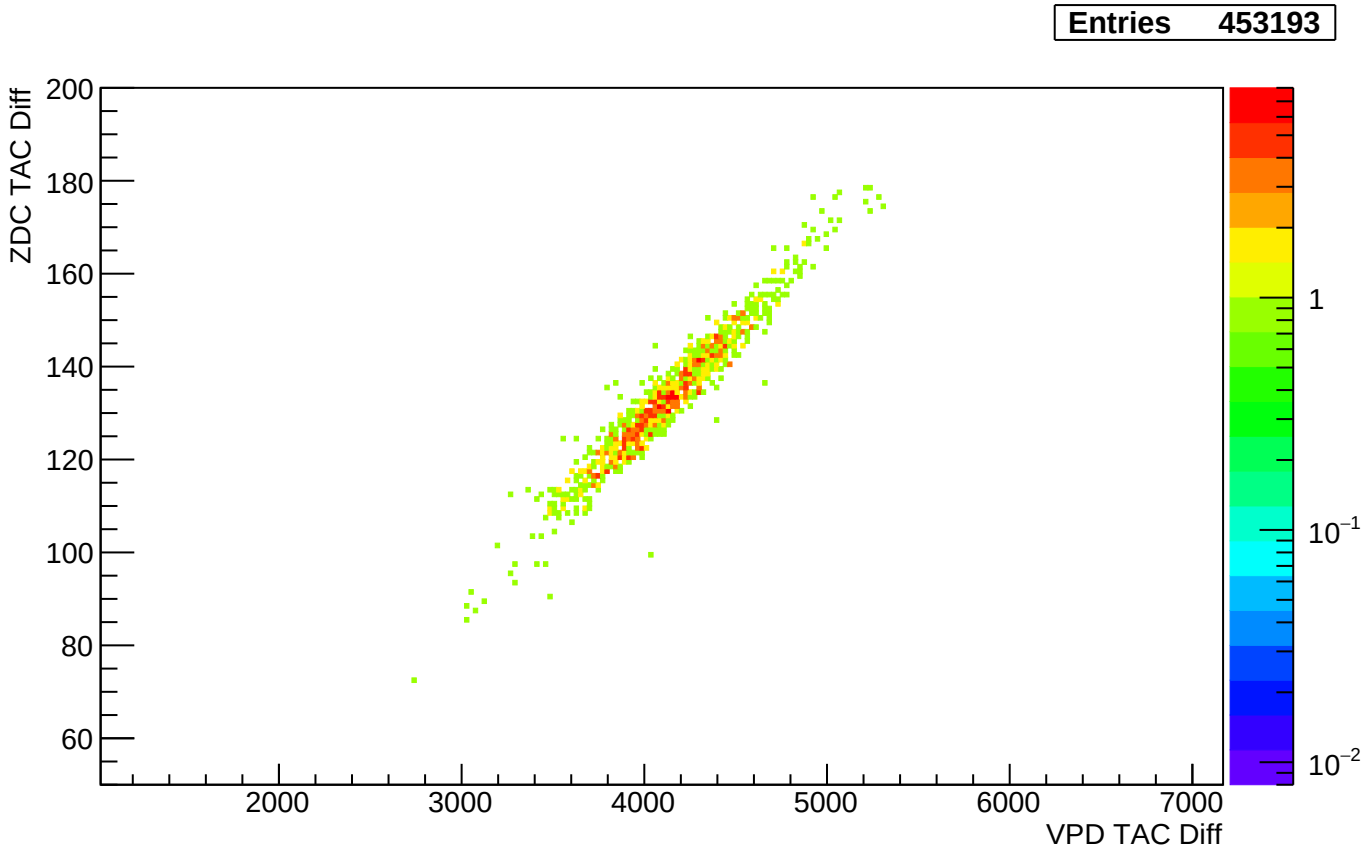

Entries 453193
TOF-Mult
EPD-East Hit Cnt

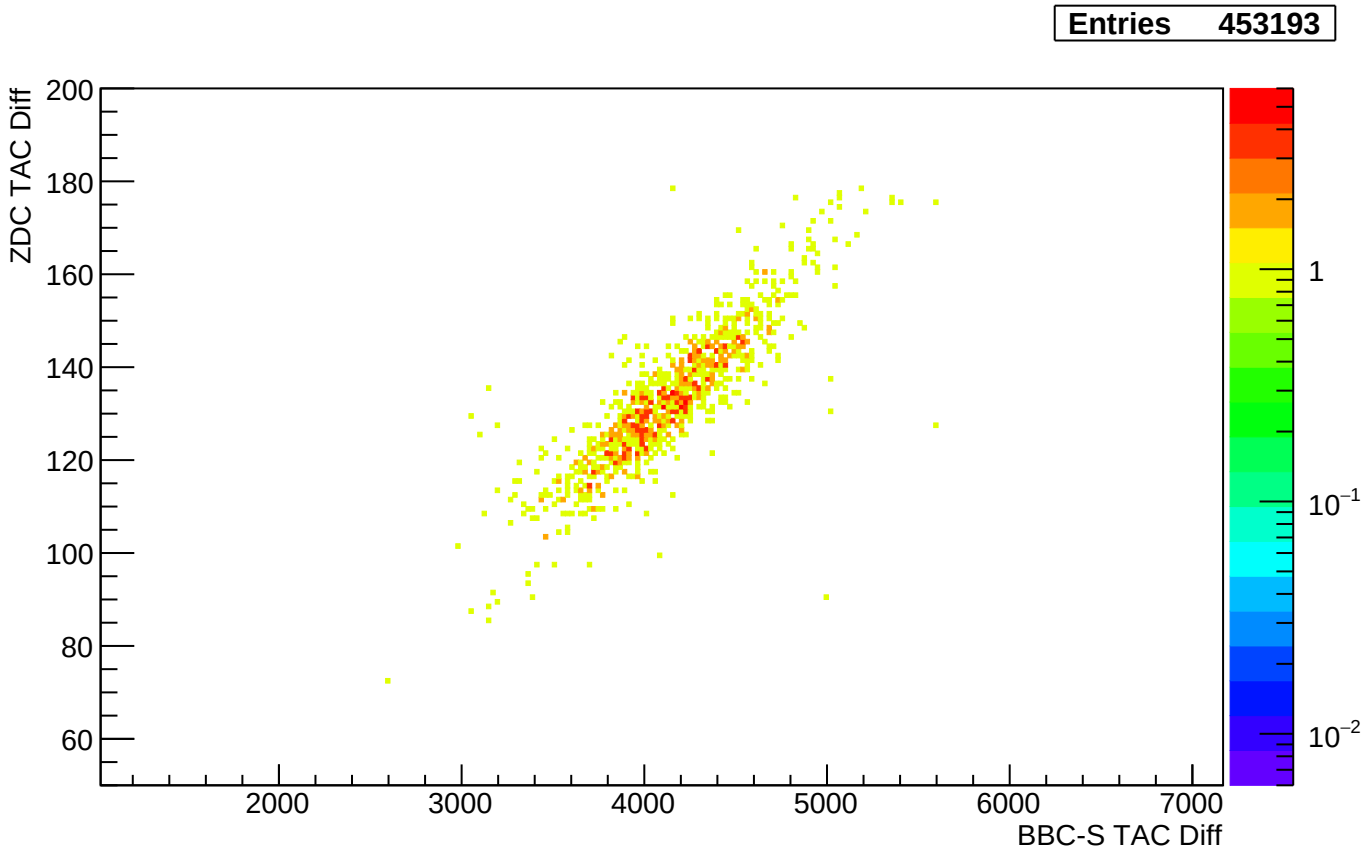

Entries 453193
TOF-Mult
EPD-West Hit Cnt

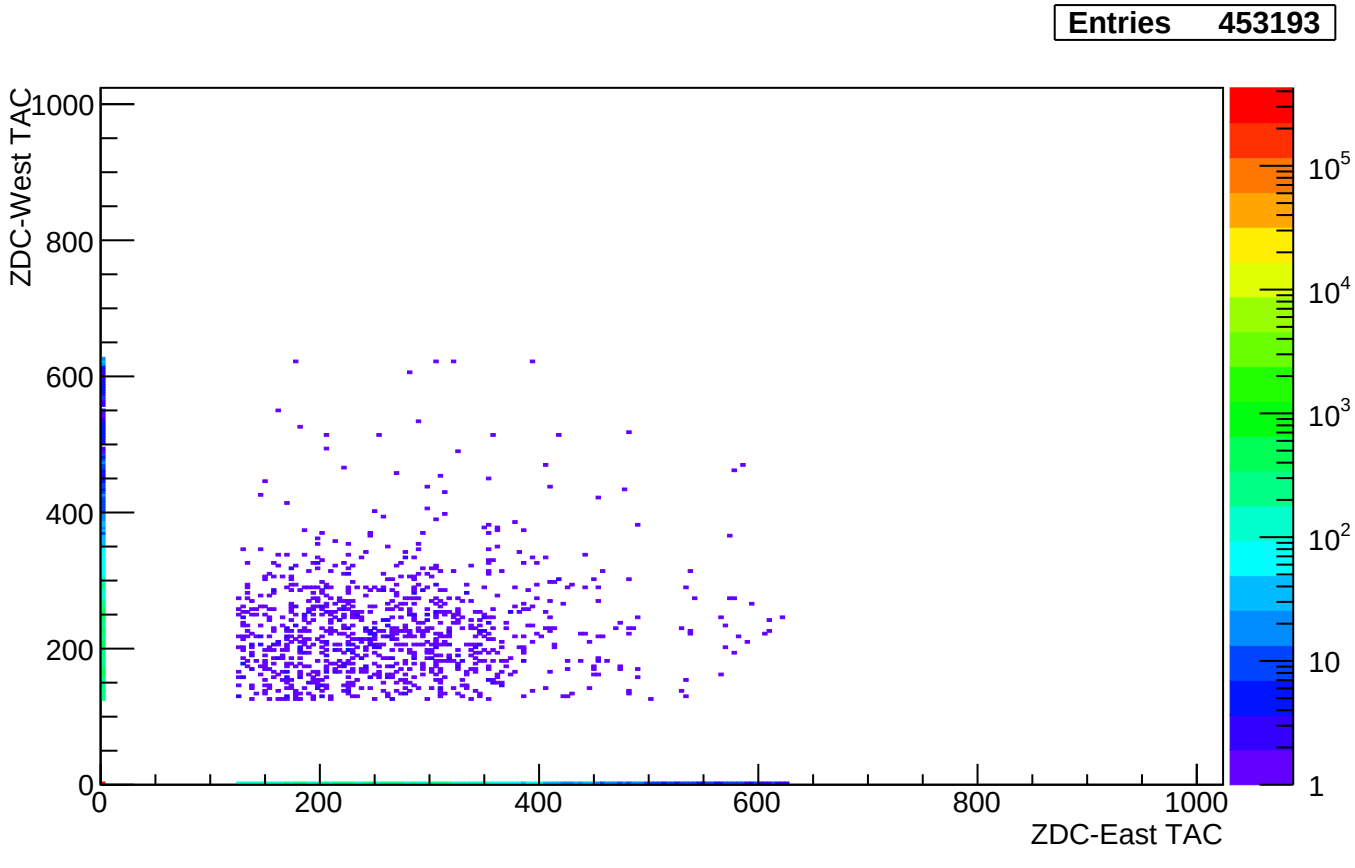

Entries 453193
TOF-Mult
VPD-East ADC Sum

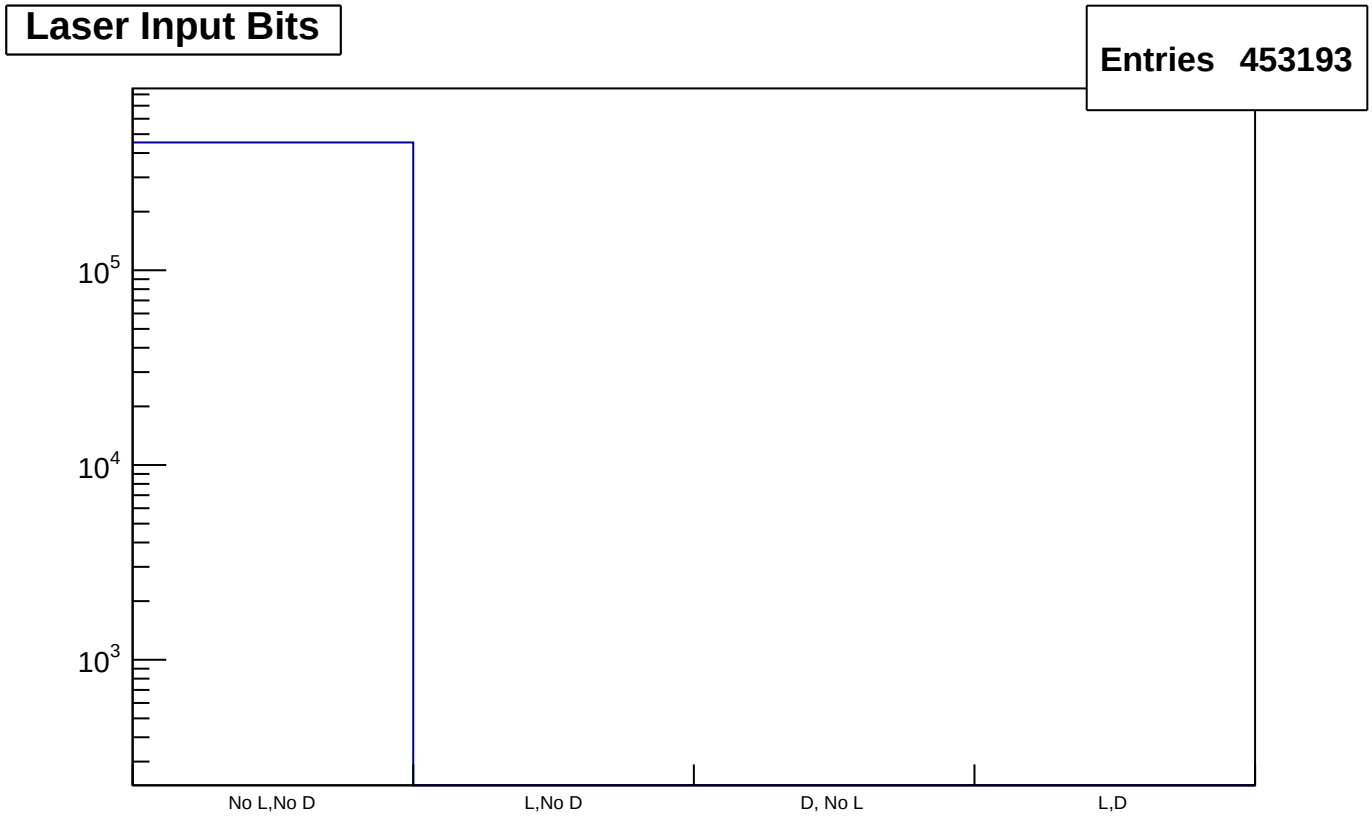

Entries 453193
TOF-Mult
VPD-West ADC Sum

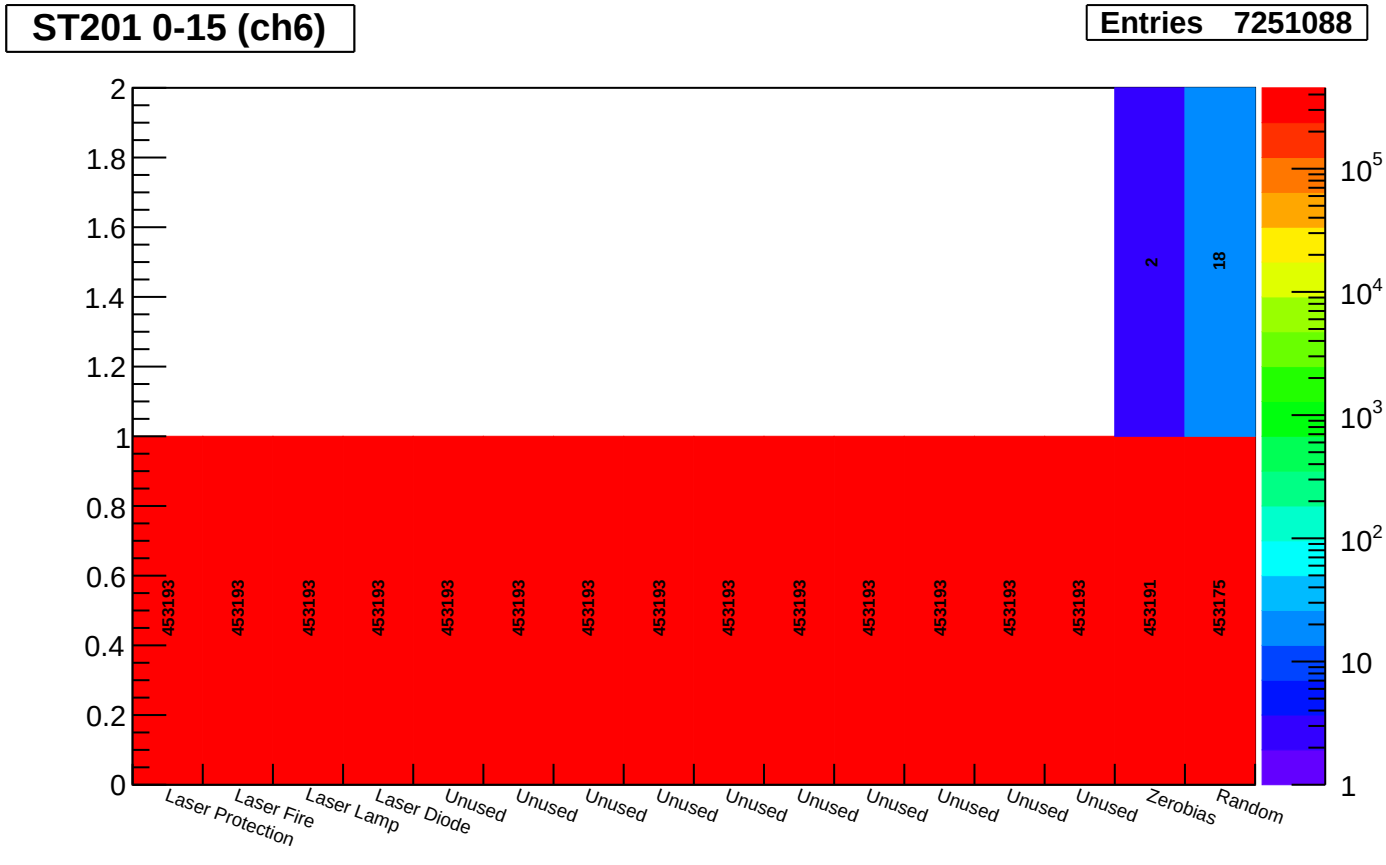

Entries 453193
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

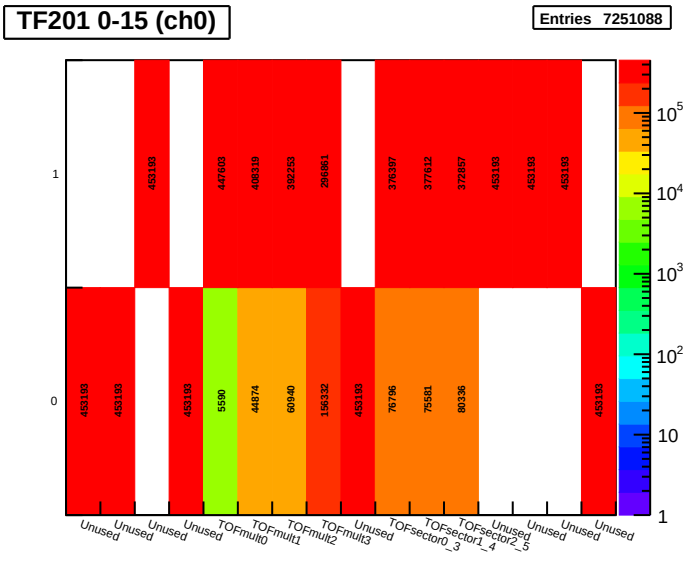

Entries 453193
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

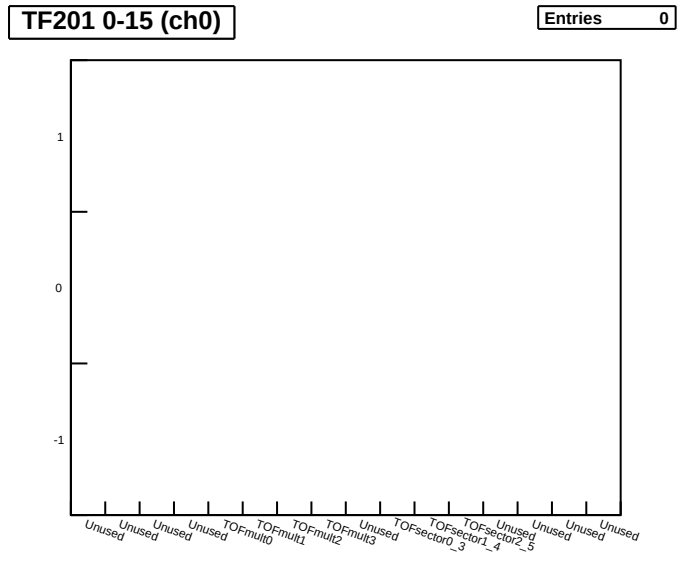

Entries 453193
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

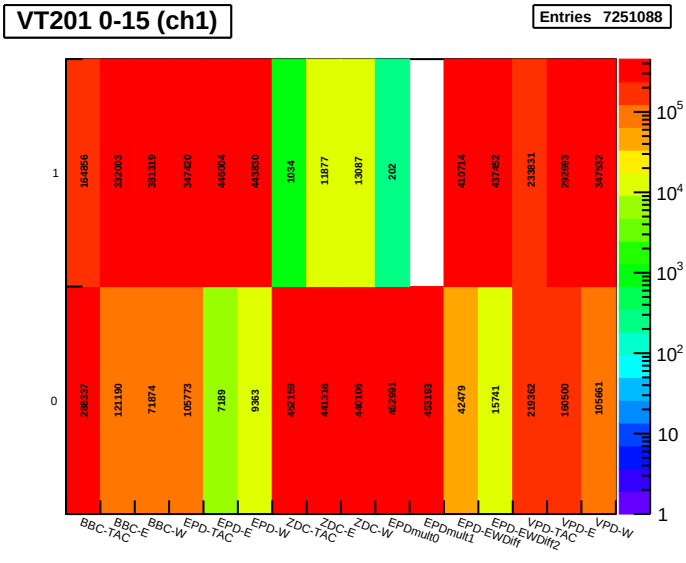

Entries 453193
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

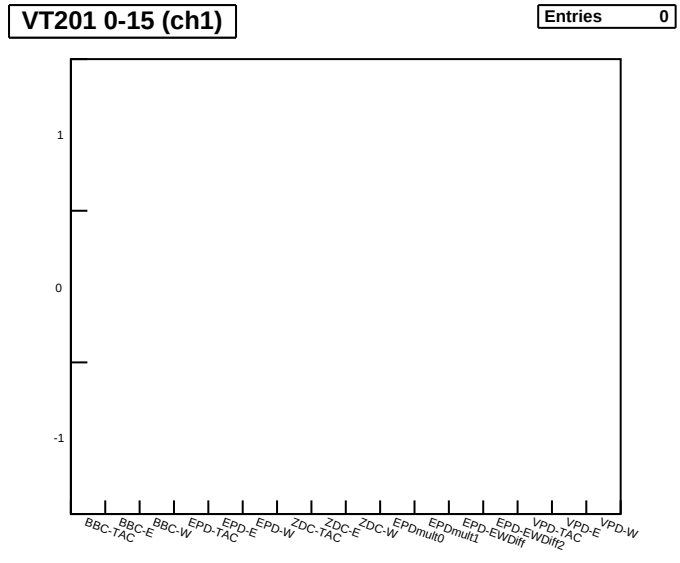

Laser Input Bits
Entries 453193
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

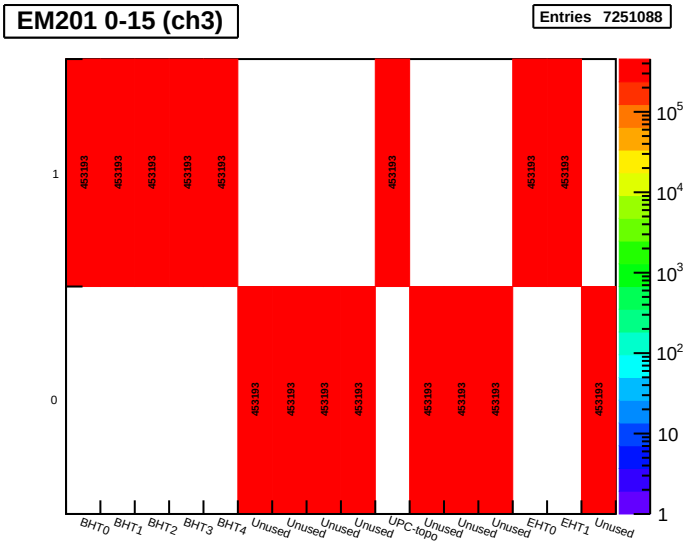

ST201 0-15 (ch6)
Entries 7251088
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
453193
453193
453193
453193
453193
453193
453193
453193
453193
453193
453193
453193
453193
453193
453191
453175
2
18
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

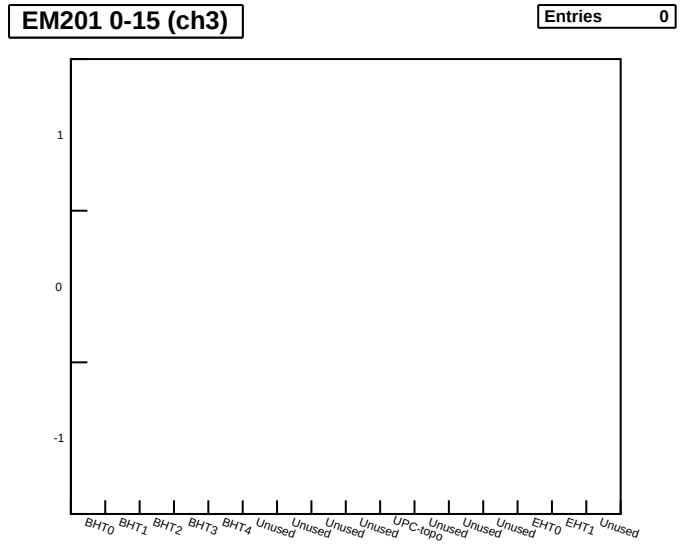

TF201 0-15 (ch0)
Entries 7251088
1
0
453193 447603 408319 382253 296861 376397 377612 372857 453193 453193 453193
453193 453193 453193 5590 44874 60940 156332 453193 76796 75581 80336 453193
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 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 7251088
1
0
164856 332003 361319 347420 446004 443830 1034 11877 13087 202 410714 437452 233831 292693 347532
288337 121190 71674 105773 7189 9363 452159 441316 440106 452991 453193 42479 15741 219362 160500 105661
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 7251088
1
0
453193 453193 453193 453193 453193 453193 453193 453193 453193
453193 453193 453193 453193 453193 453193 453193 453193
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