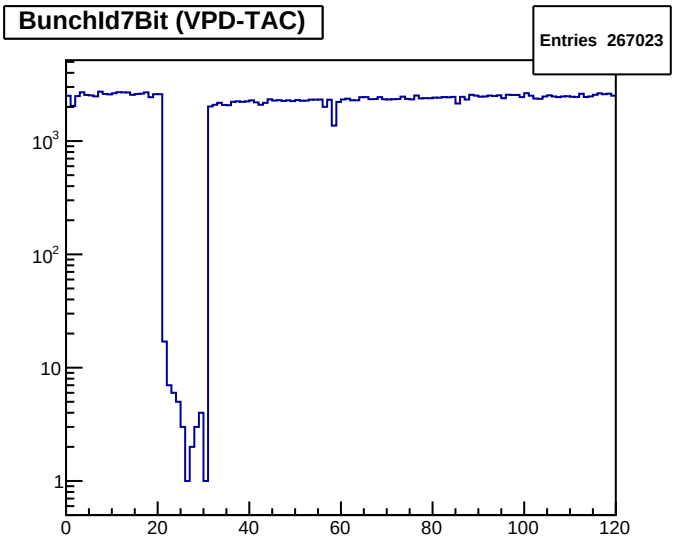
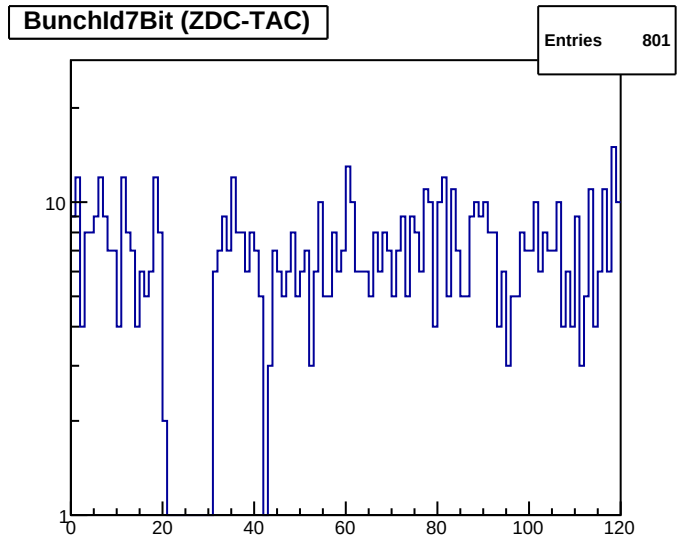
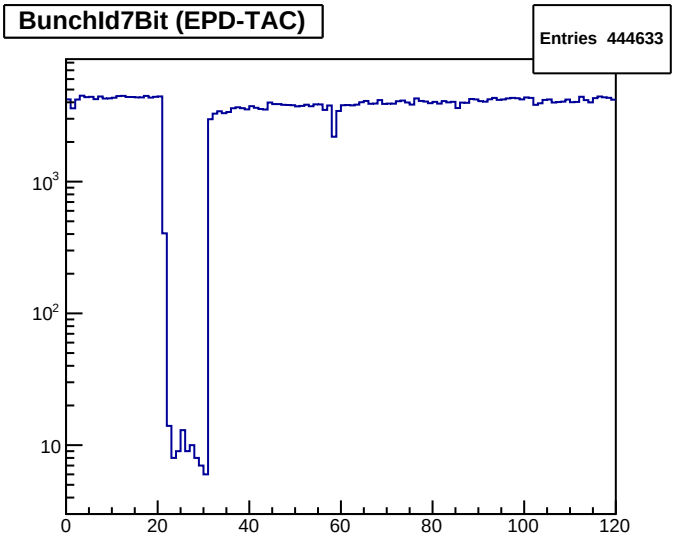
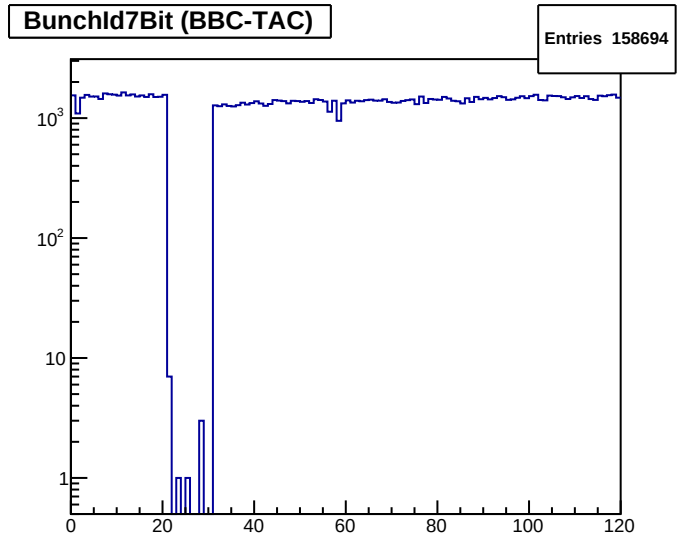
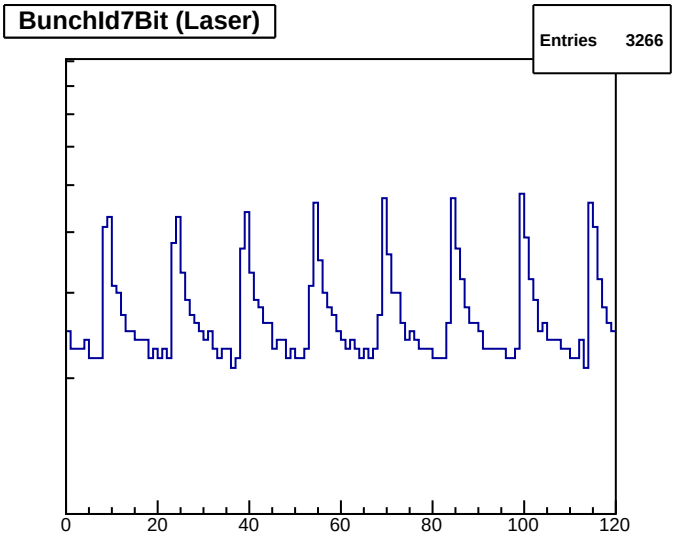
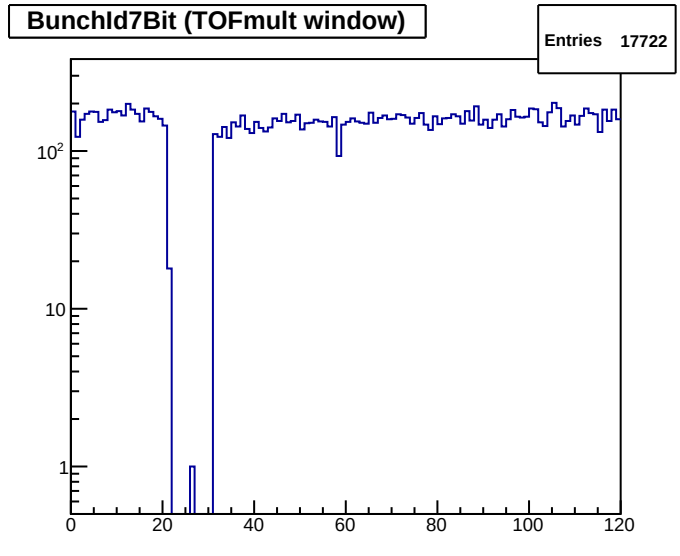

BunchId7Bit (VPD-TAC)
Entries 267023
10^3
10^2
10
1
0
20
40
60
80
100
120

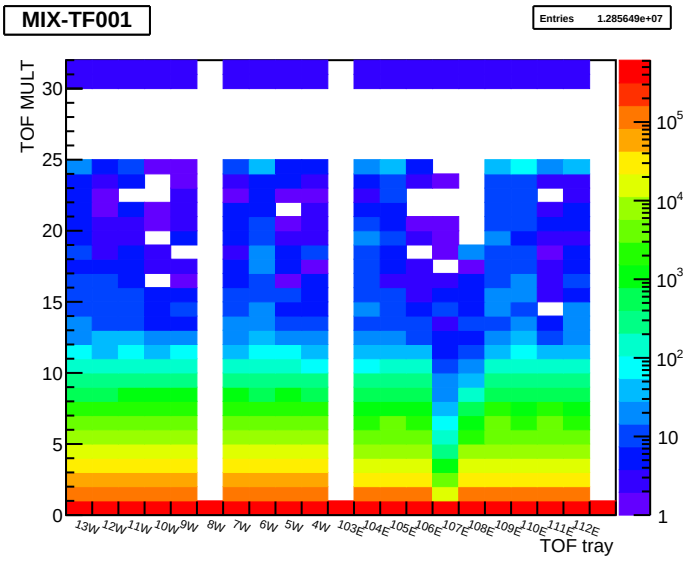

BunchId7Bit (ZDC-TAC)
Entries 801
10
1
0
20
40
60
80
100
120

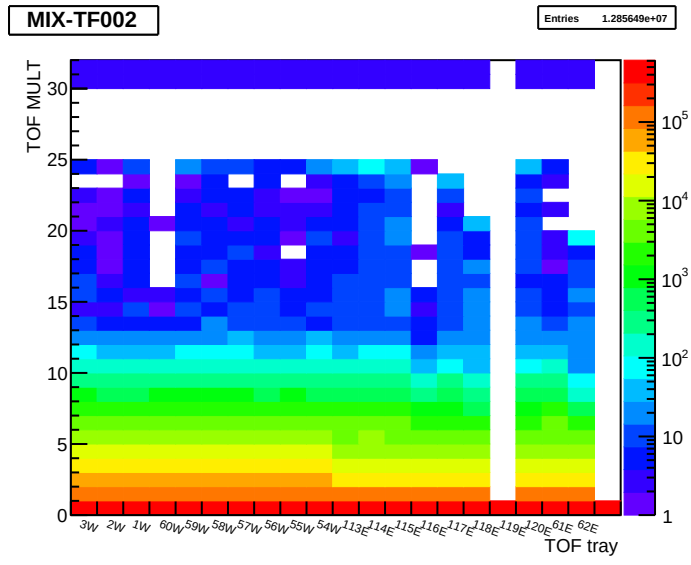

BunchId7Bit (EPD-TAC)
Entries 444633
10^3
10^2
10
0
20
40
60
80
100
120

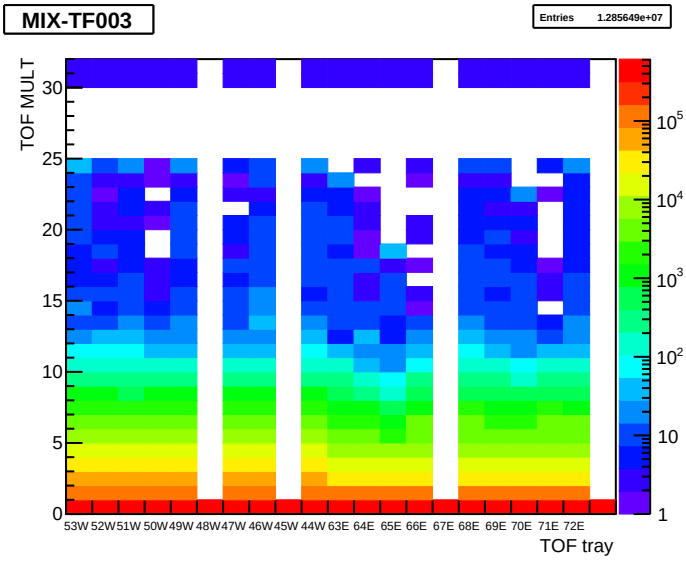

BunchId7Bit (BBC-TAC)
Entries 158694
10^3
10^2
10
1
0
20
40
60
80
100
120

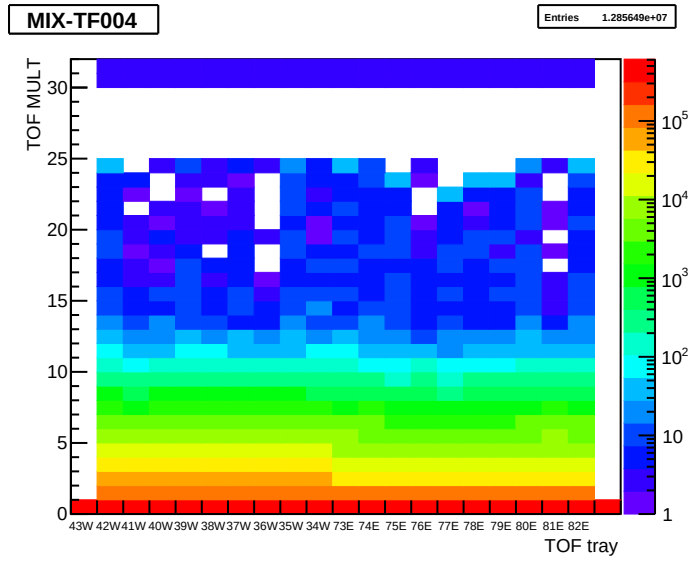

BunchId7Bit (Laser)
Entries 3266
0
20
40
60
80
100
120

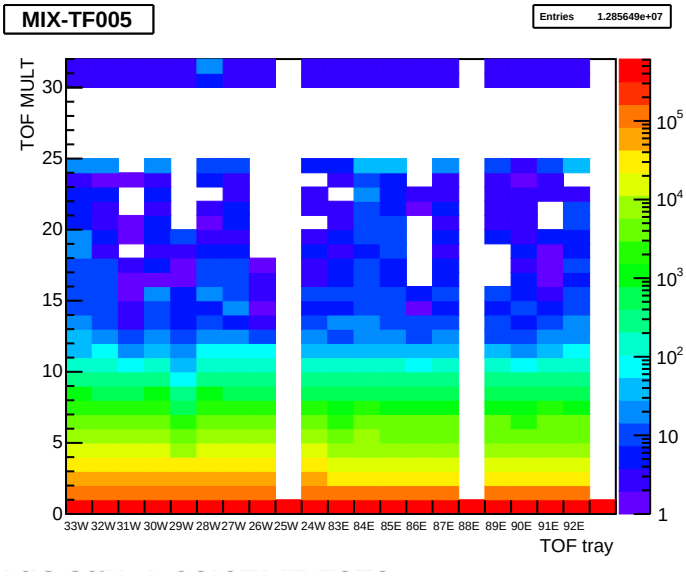

BunchId7Bit (TOFmult window)
Entries 17722
10^2
10
1
0
20
40
60
80
100
120

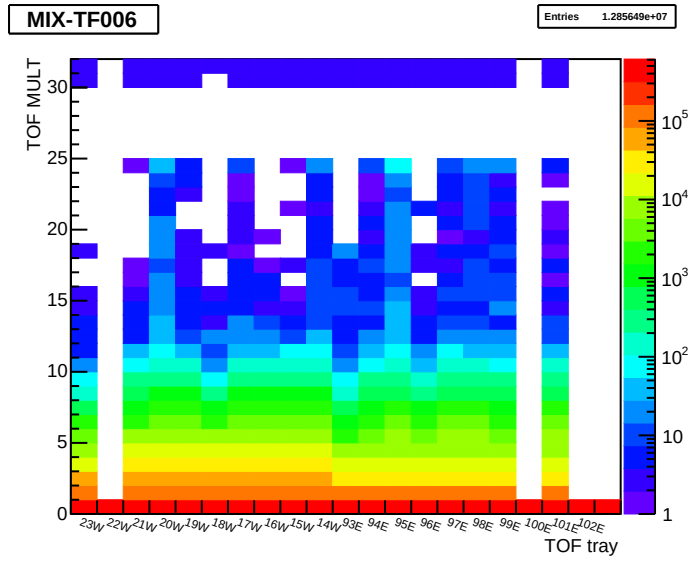

MIX-TF001
Entries 1.285649e+07
TOF MULT
TOF tray

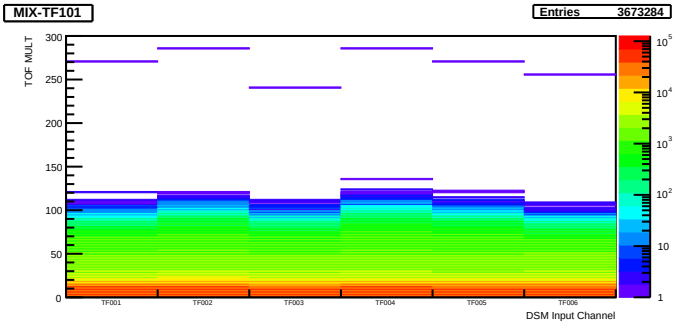

MIX-TF002
Entries 1.285649e+07
TOF MULT
TOF tray

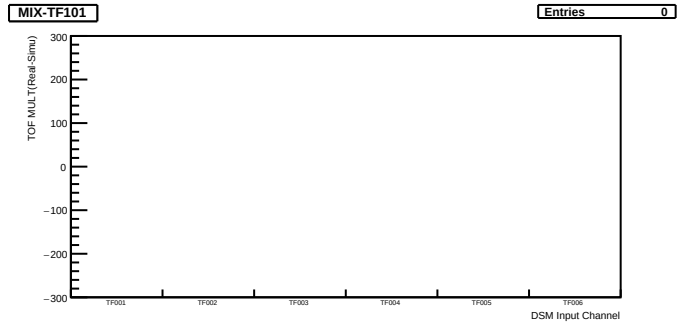

MIX-TF003
Entries 1.285649e+07
TOF MULT
TOF tray

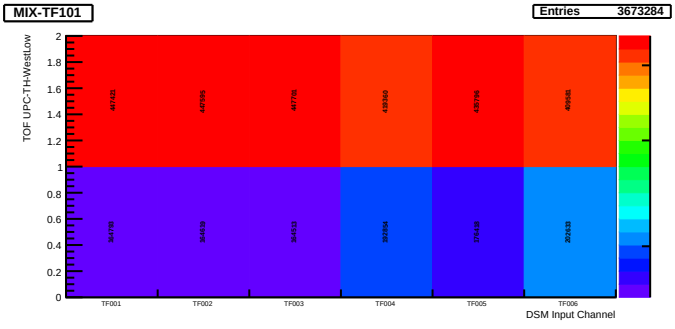

MIX-TF004
Entries 1.285649e+07
TOF MULT
TOF tray

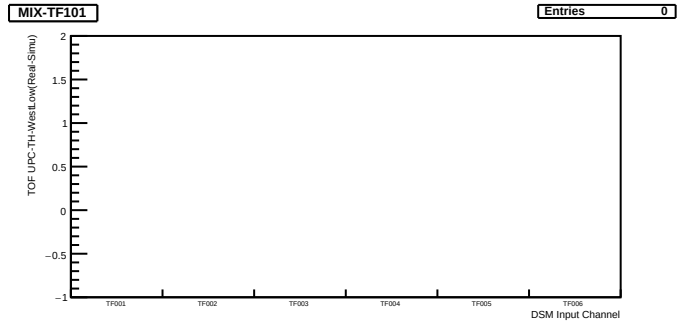

MIX-TF005
Entries 1.285649e+07
TOF MULT
TOF tray

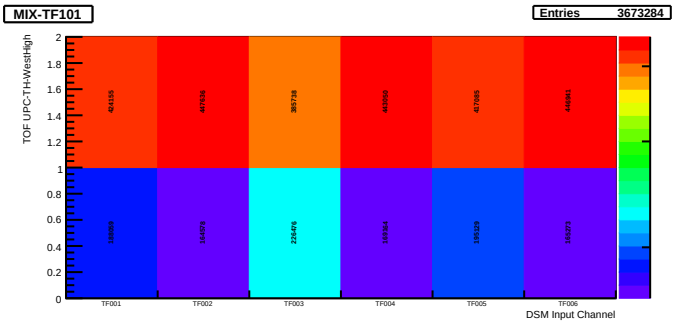

MIX-TF006
Entries 1.285649e+07
TOF MULT
TOF tray

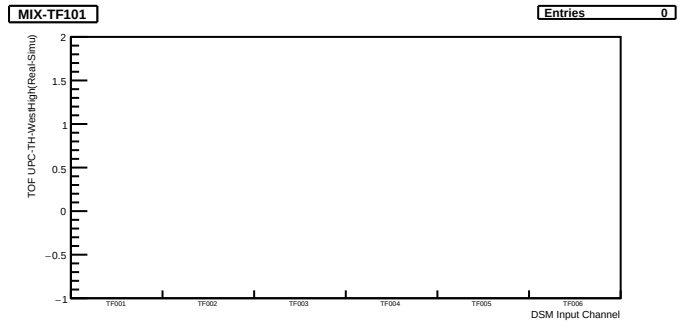

MIX-TF101
Entries 3673284
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

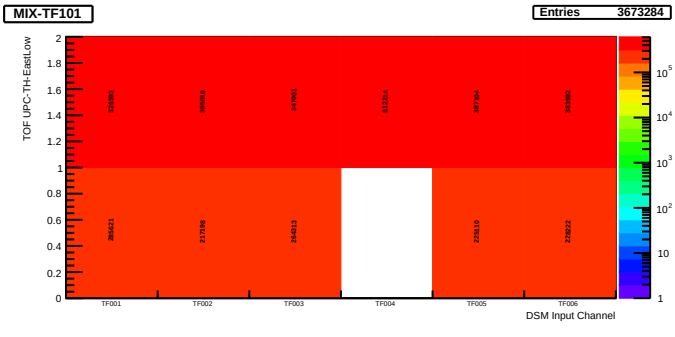

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

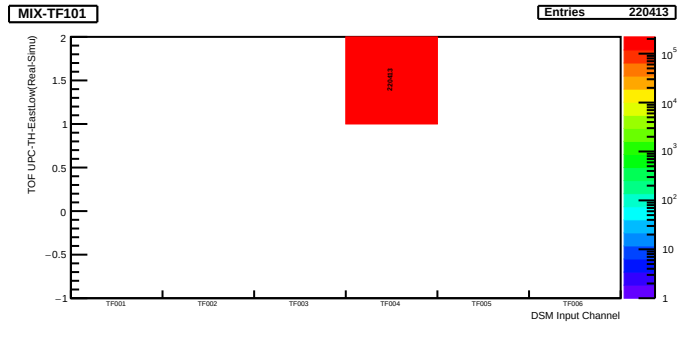

MIX-TF101
Entries 3673284
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

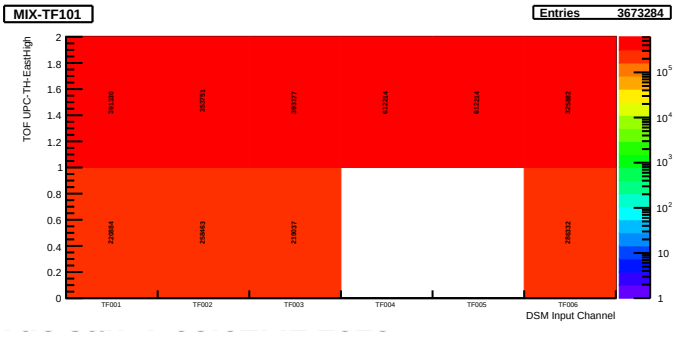

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

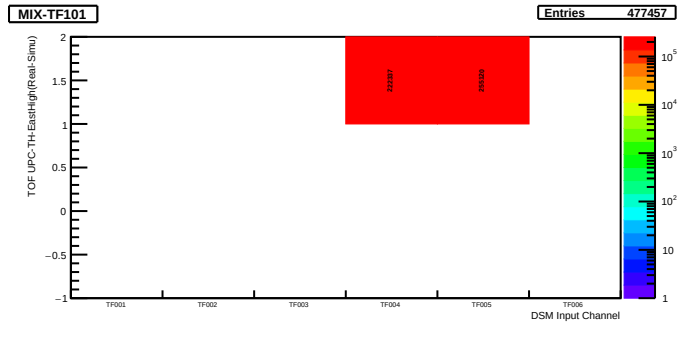

MIX-TF101
Entries 3673284
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

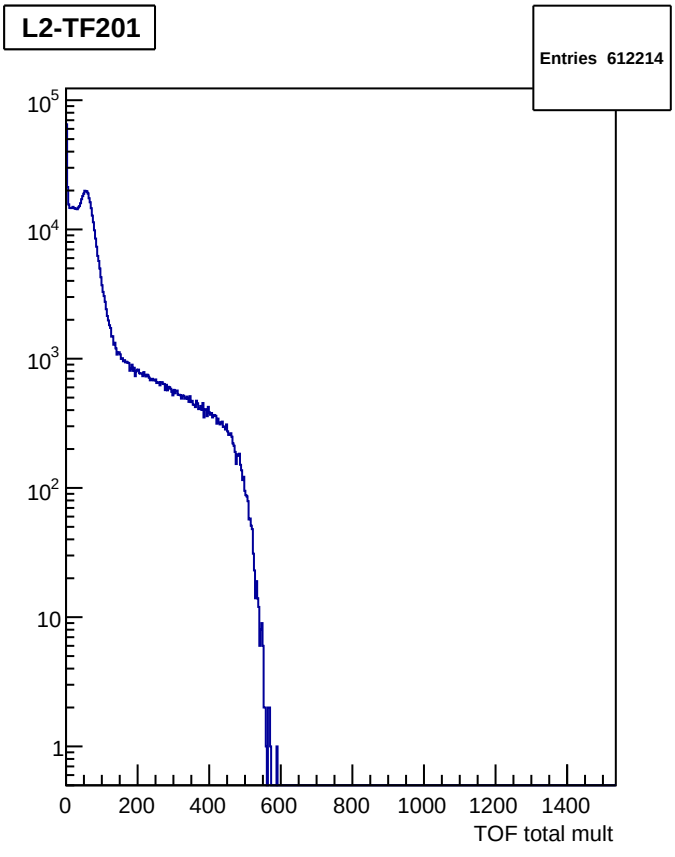

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

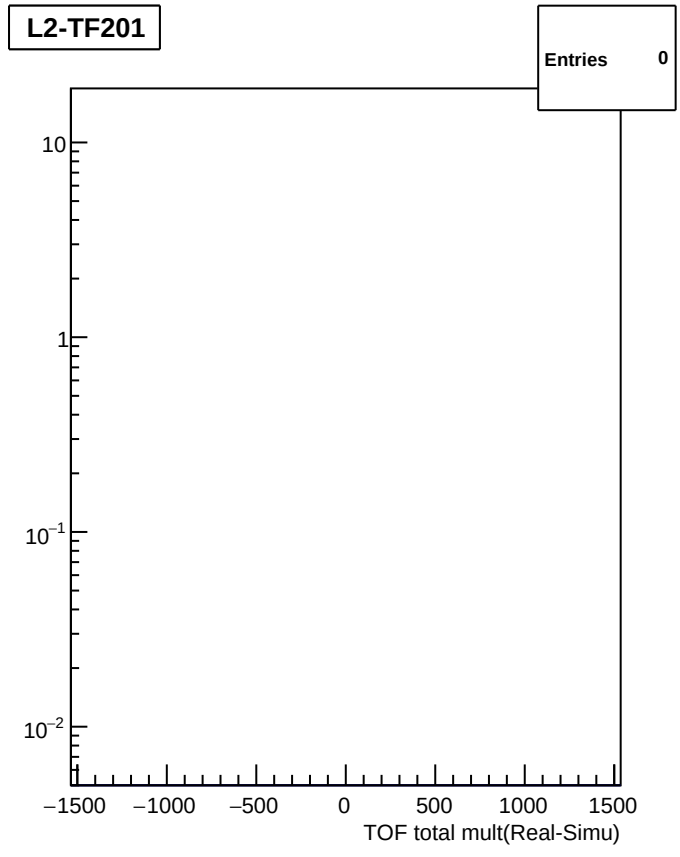

MIX-TF101
Entries 3673284
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

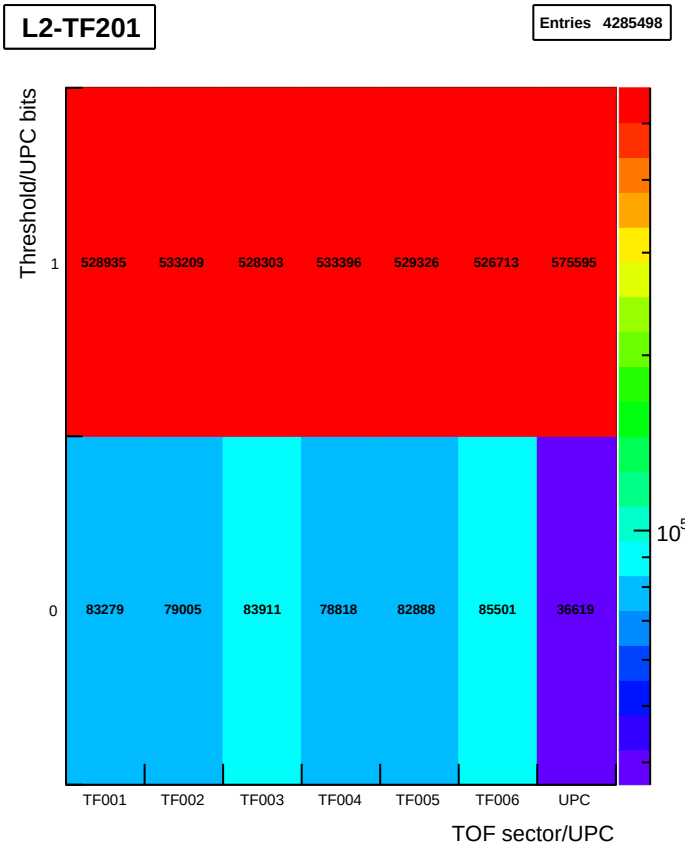

MIX-TF101
Entries 220413
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

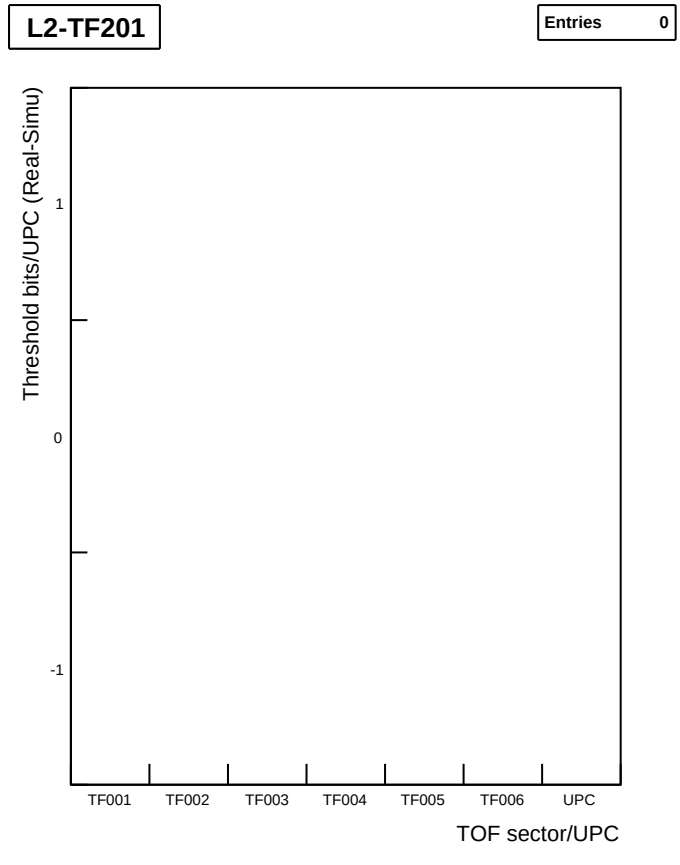

MIX-TF101
Entries 3673284
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

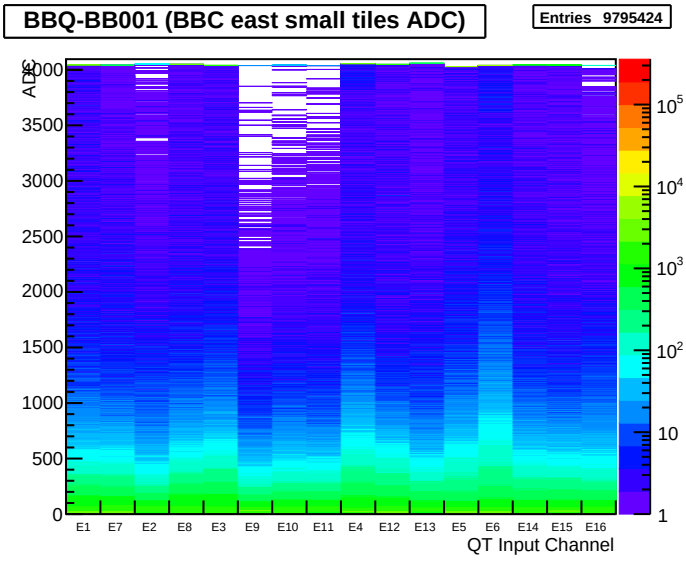

MIX-TF101
Entries 477457
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

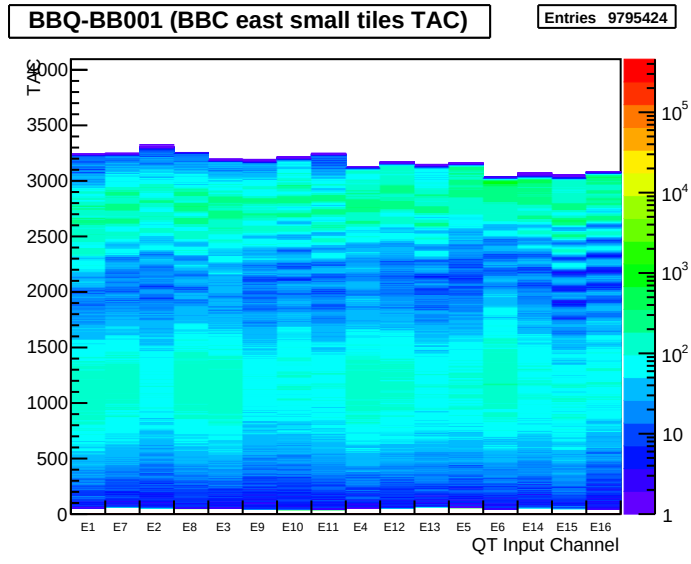

L2-TF201
Entries 612214
TOF total mult

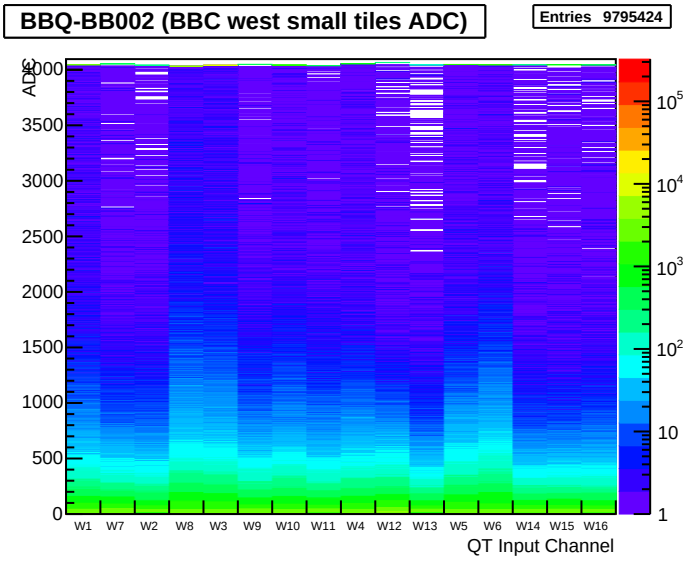

L2-TF201
Entries 0
TOF total mult(Real-Simu)

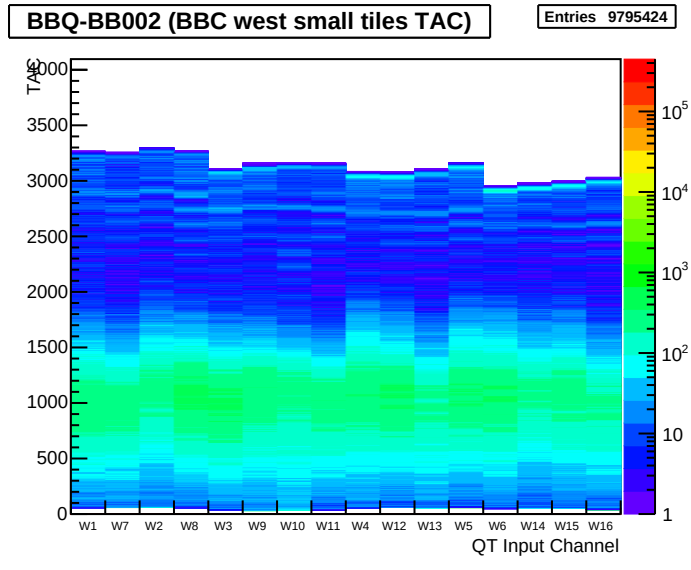

L2-TF201
Entries 4285498
Threshold/UPC bits
528935
533209
528303
533396
529326
526713
575595
83279
79005
83911
78818
82888
85501
36619
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

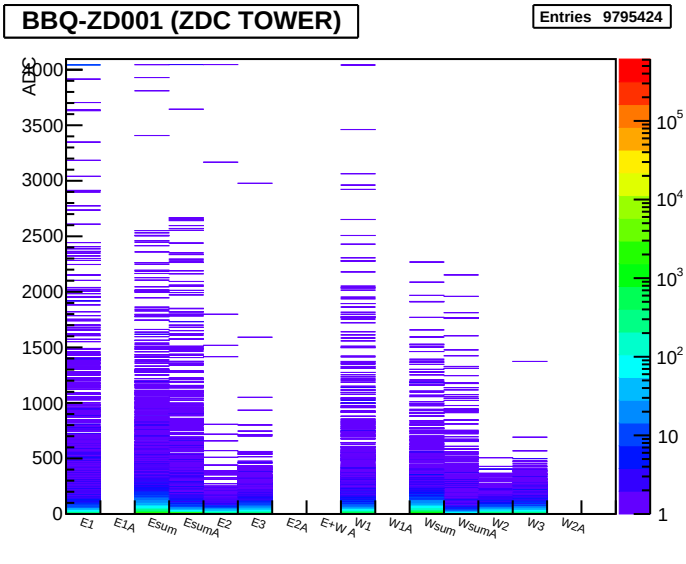

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

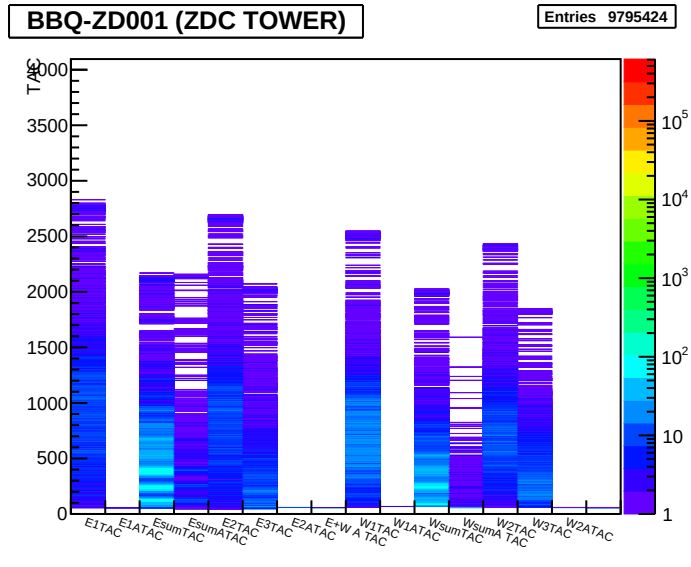

BBQ-BB001 (BBC east small tiles ADC)
Entries 9795424
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

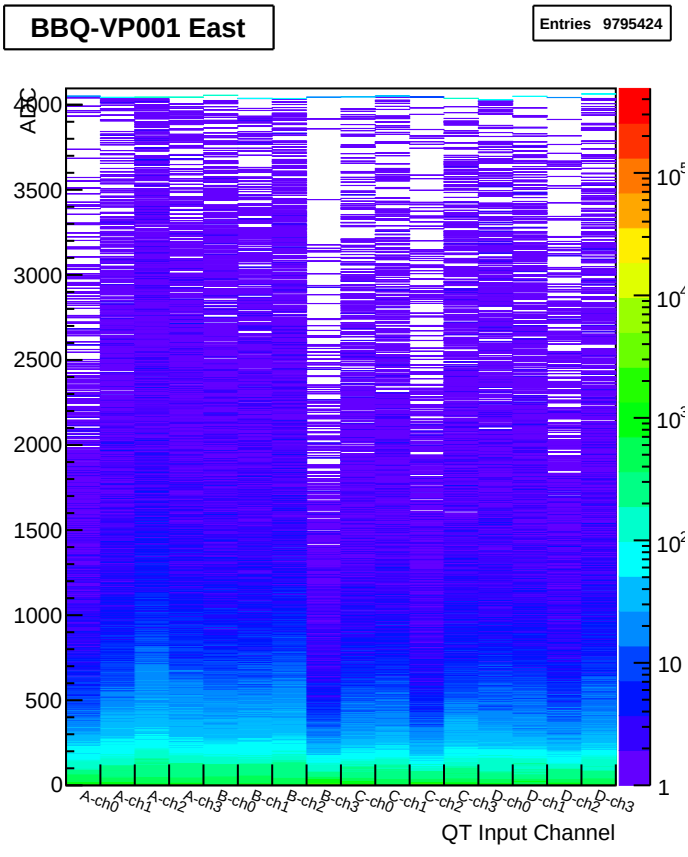

BBQ-BB001 (BBC east small tiles TAC)
Entries 9795424
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

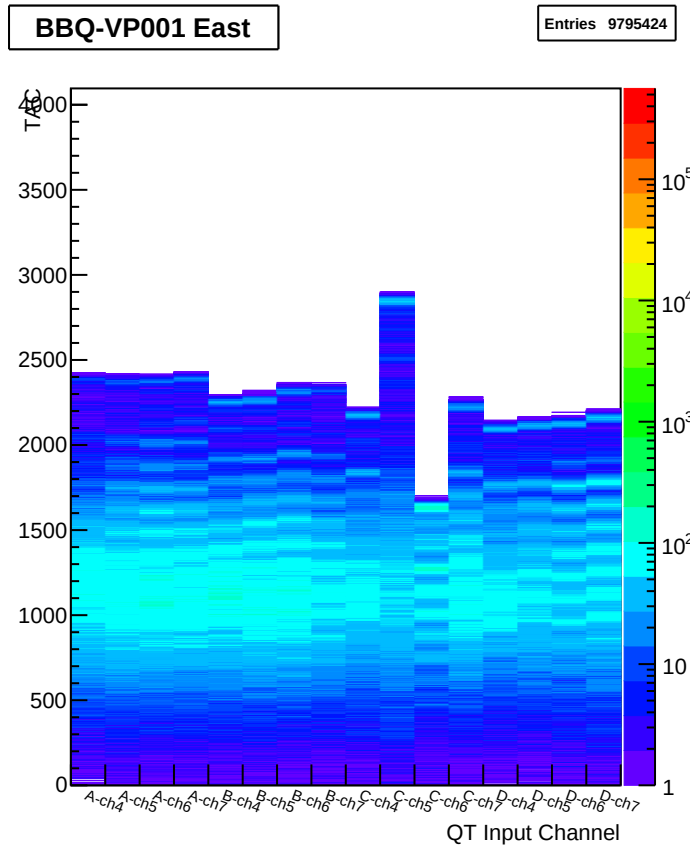

BBQ-BB002 (BBC west small tiles ADC)
Entries 9795424
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

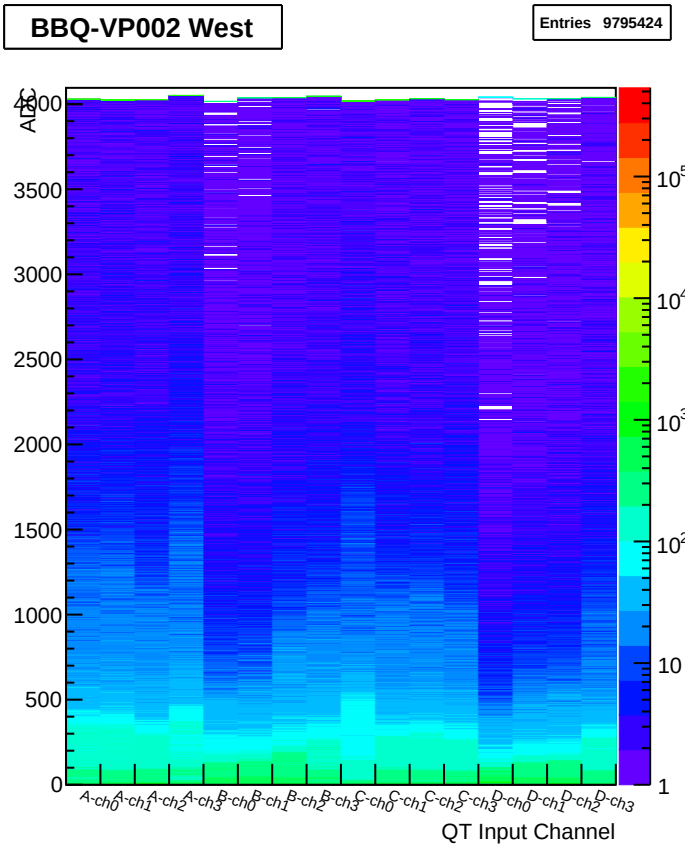

BBQ-BB002 (BBC west small tiles TAC)
Entries 9795424
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

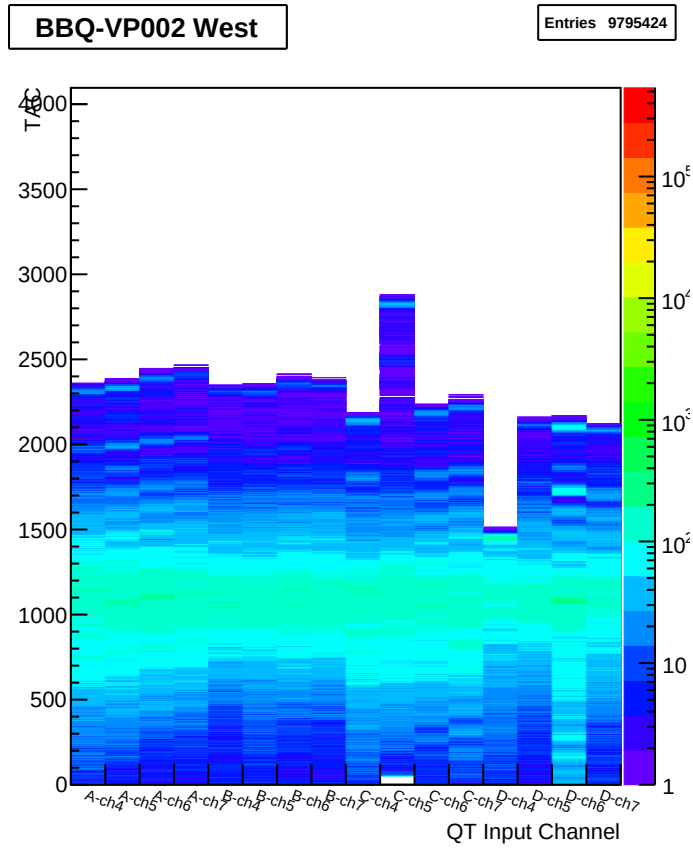

BBQ-ZD001 (ZDC TOWER)
Entries 9795424
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

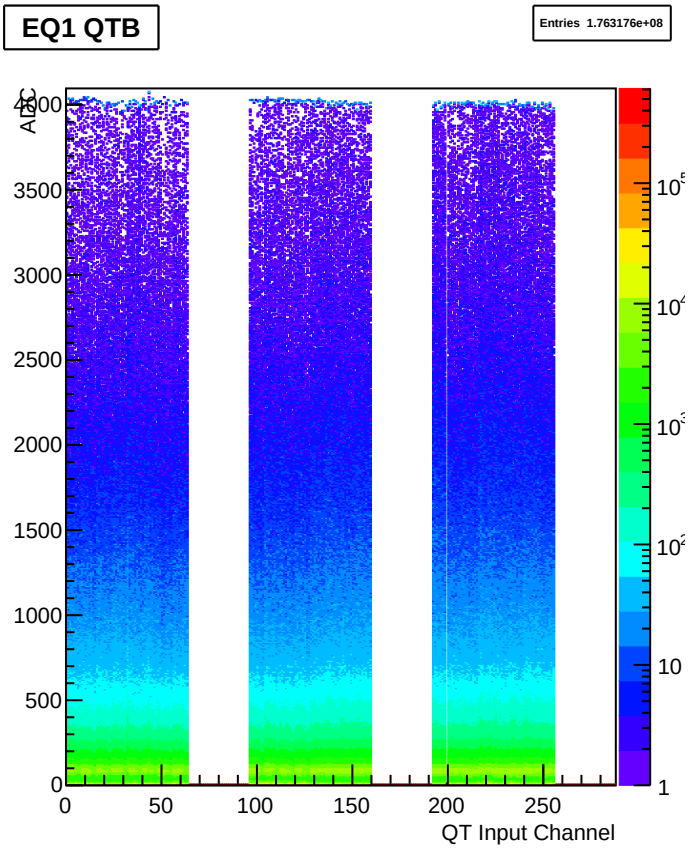

BBQ-ZD001 (ZDC TOWER)
Entries 9795424
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

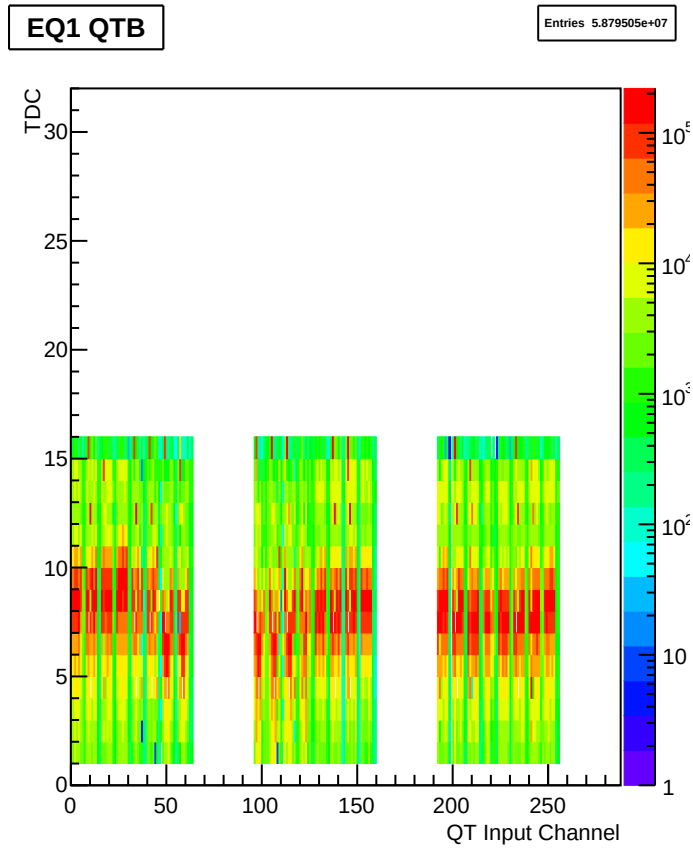

BBQ-VP001 East
Entries 9795424
ADC
QT Input Channel

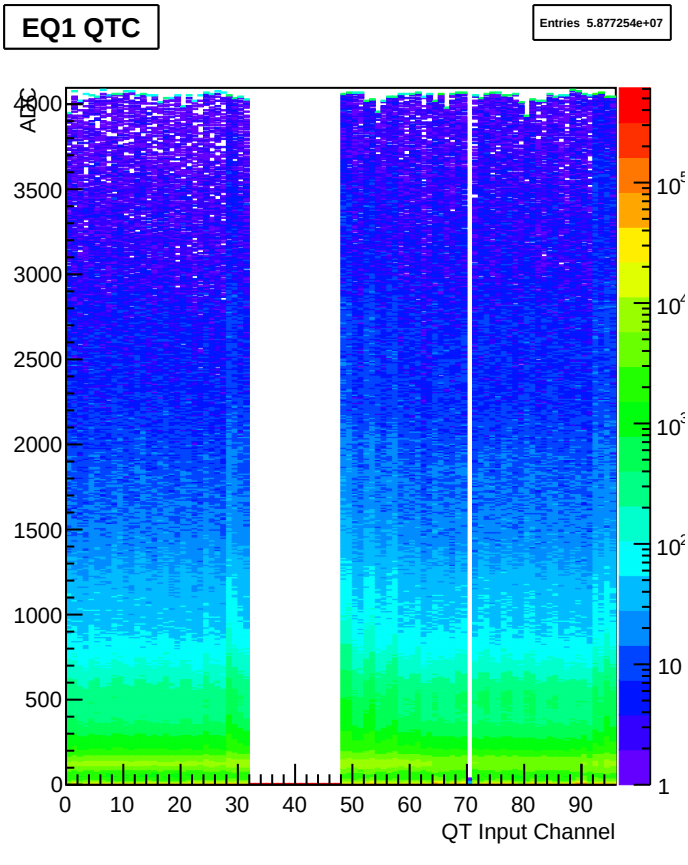

BBQ-VP001 East
Entries 9795424
ADC
QT Input Channel

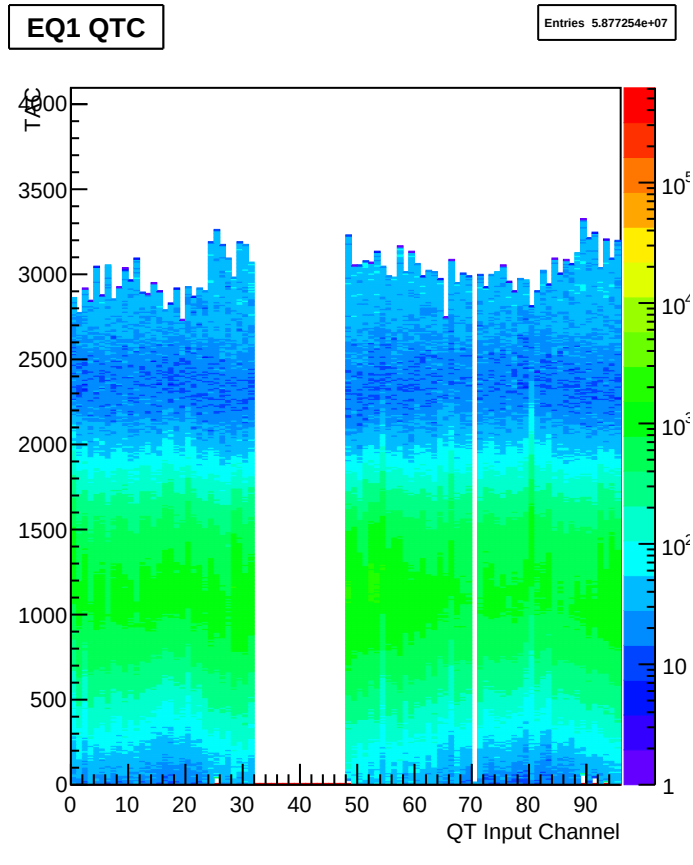

BBQ-VP002 West
Entries 9795424
ADC
QT Input Channel

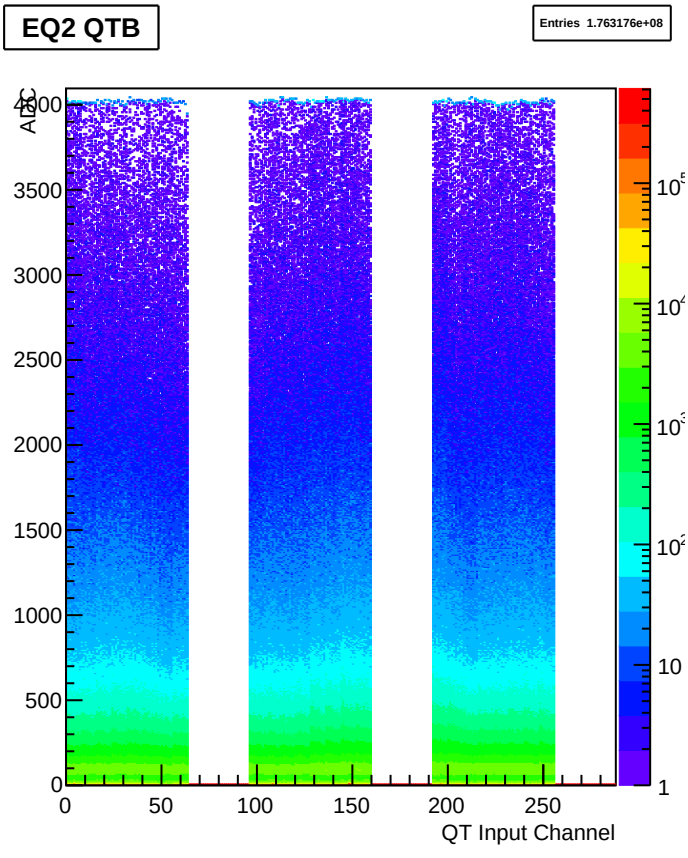

BBQ-VP002 West
Entries 9795424
ADC
QT Input Channel

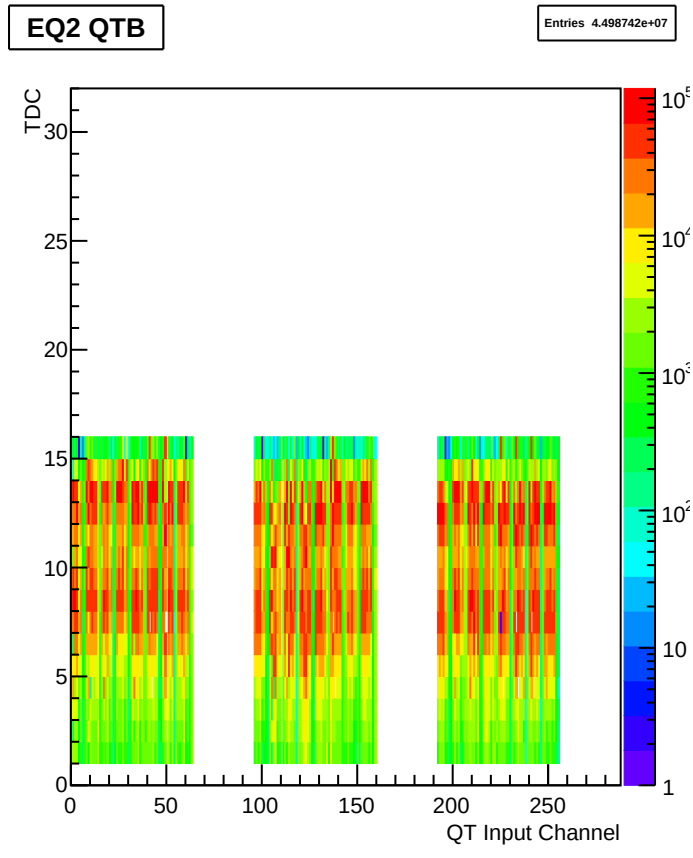

EQ1 QTB
Entries 1.763176e+08
ADC
QT Input Channel

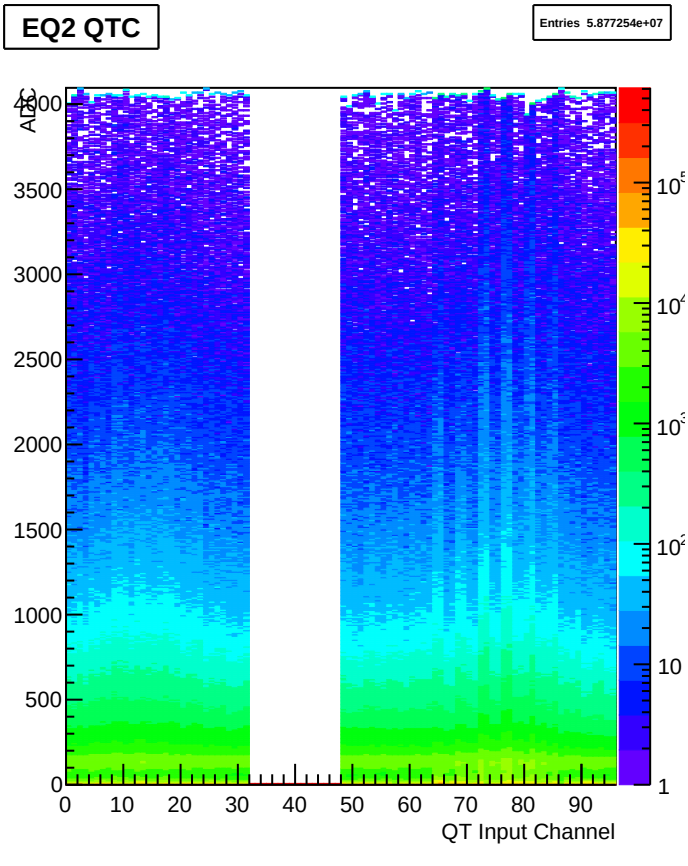

EQ1 QTB
Entries 5.879505e+07
TDC
QT Input Channel

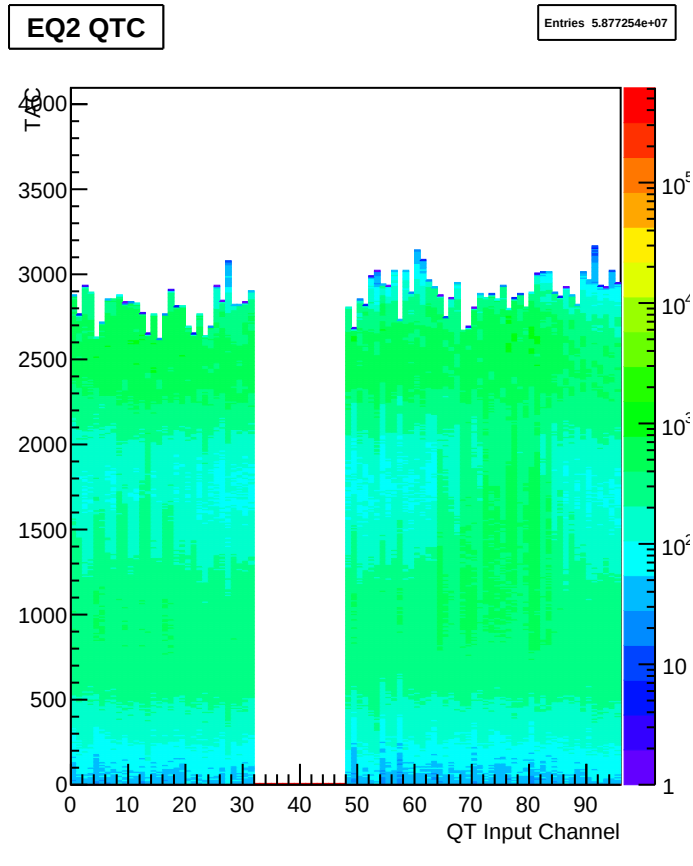

EQ1 QTC
Entries 5.877254e+07
ADC
QT Input Channel

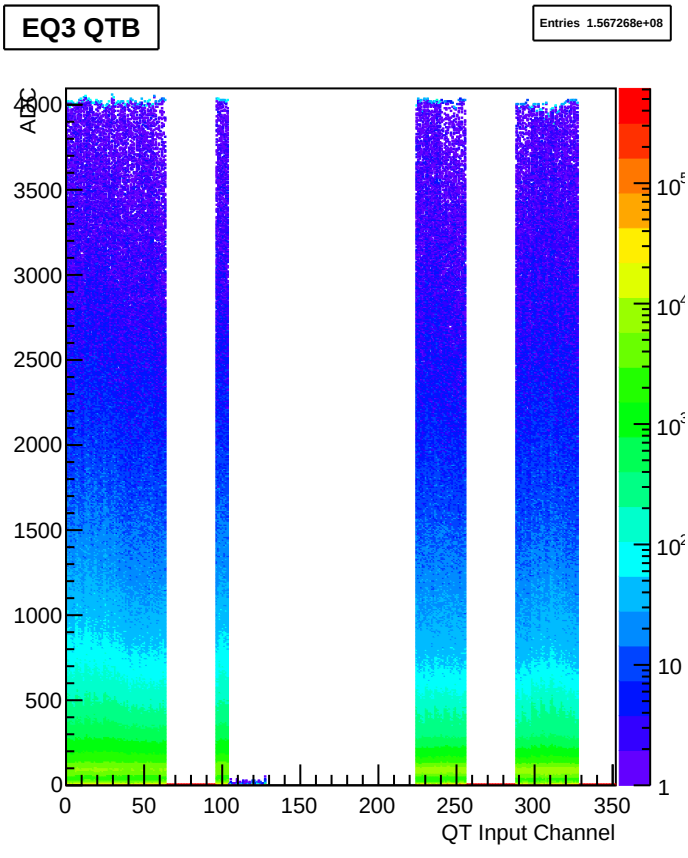

EQ1 QTC
Entries 5.877254e+07
TADC
QT Input Channel

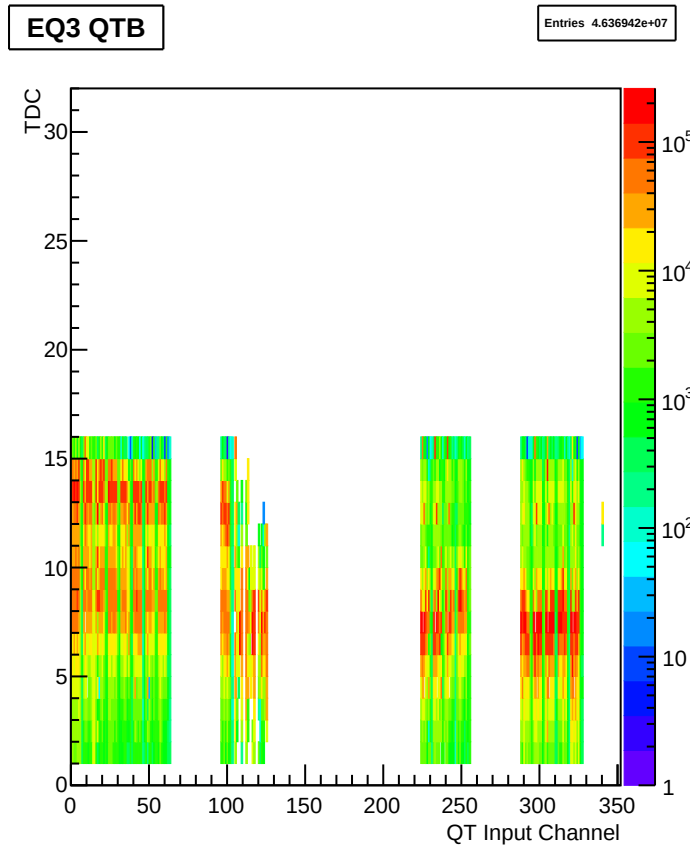

EQ2 QTB
Entries 1.763176e+08
ADC
QT Input Channel

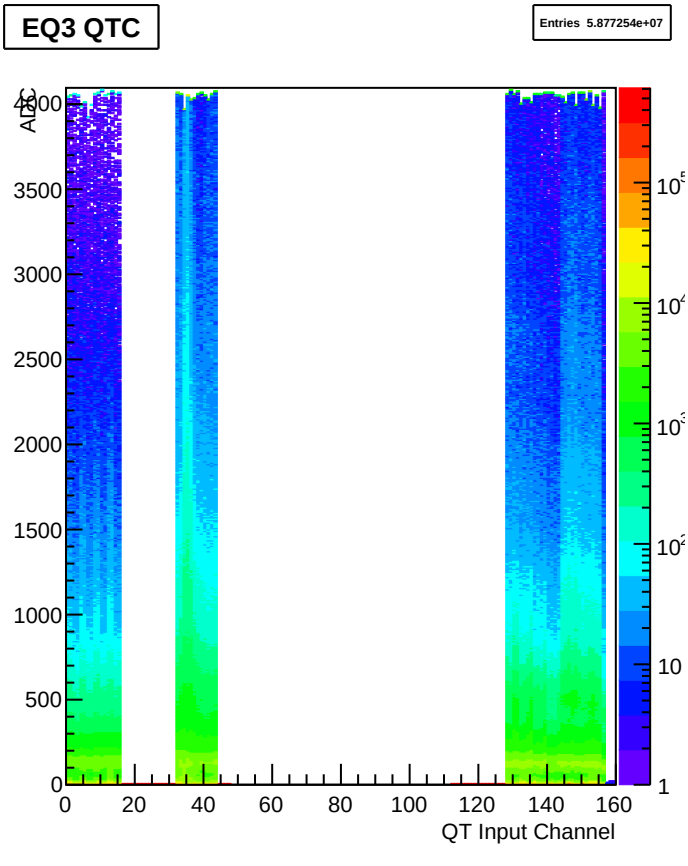

EQ2 QTB
Entries 4.498742e+07
TDC
QT Input Channel

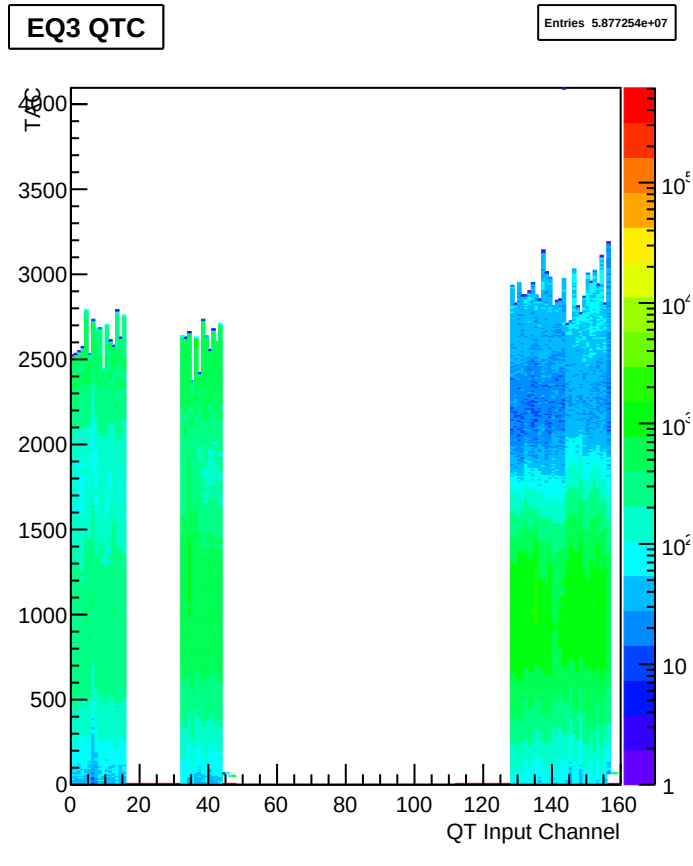

EQ2 QTC
Entries 5.877254e+07
ADC
QT Input Channel

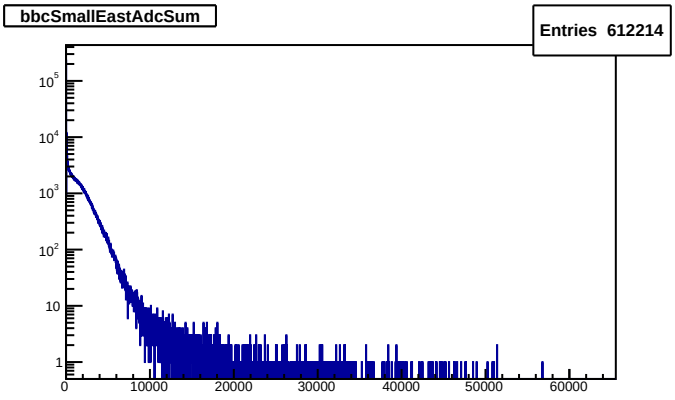

EQ2 QTC
Entries 5.877254e+07
TADC
QT Input Channel

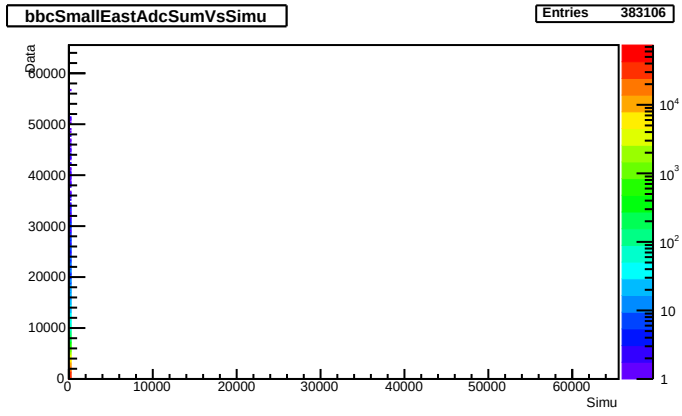

EQ3 QTB
Entries 1.567268e+08
ADC
QT Input Channel

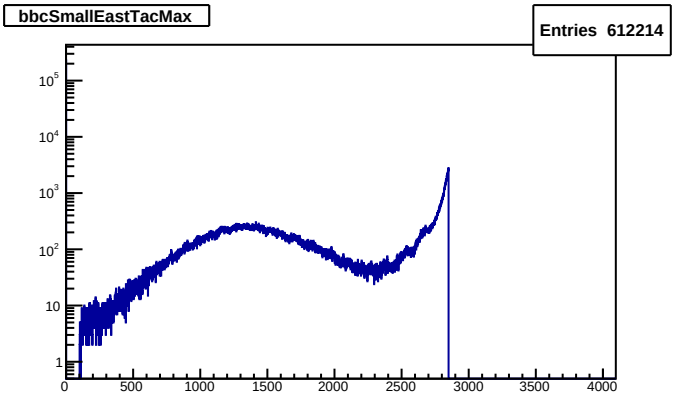

EQ3 QTB
Entries 4.636942e+07
TDC
QT Input Channel

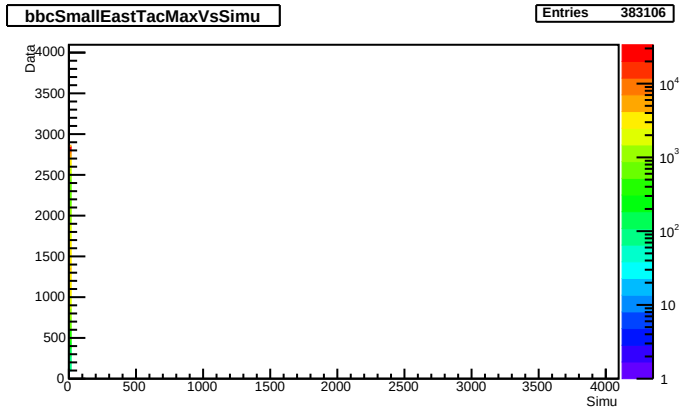

EQ3 QTC
Entries 5.877254e+07
ADC
QT Input Channel

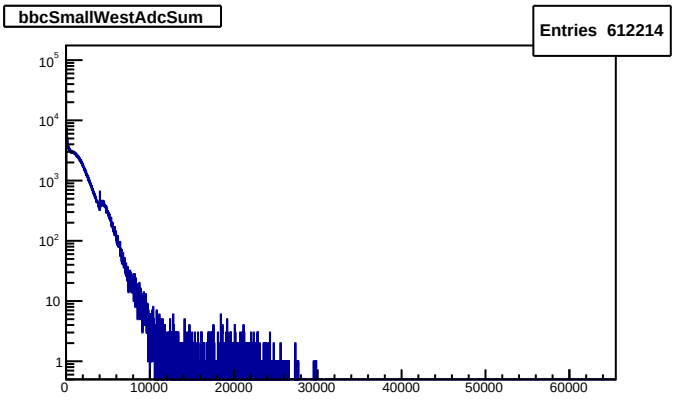

EQ3 QTC
Entries 5.877254e+07
TADC
QT Input Channel

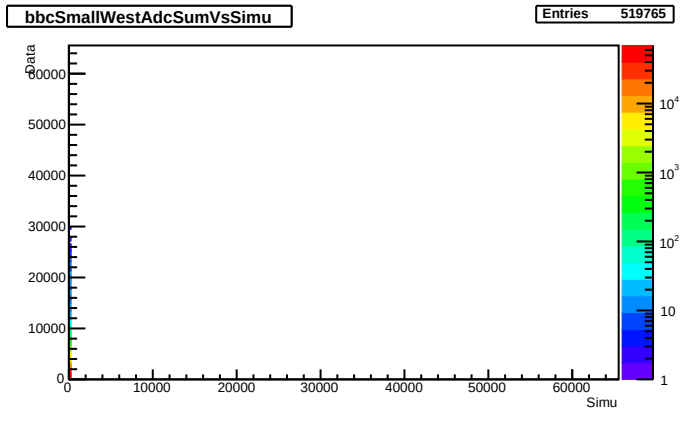

bbcSmallEastAdcSum
Entries 612214

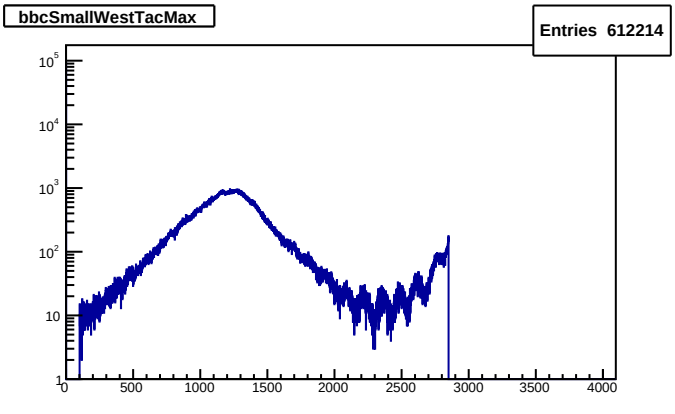

bbcSmallEastAdcSumVsSimu
Entries 383106
Data
Simu

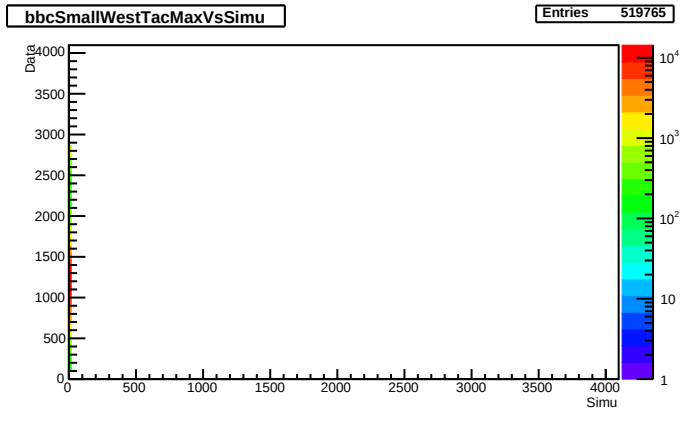

bbcSmallEastTacMax
Entries 612214

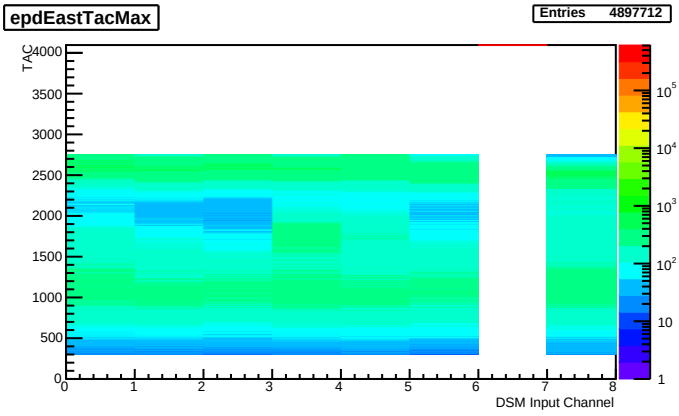

bbcSmallEastTacMaxVsSimu
Entries 383106
Data
Simu

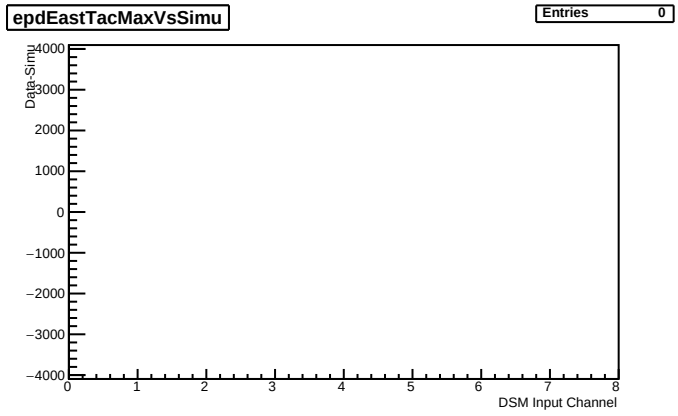

bbcSmallWestAdcSum
Entries 612214

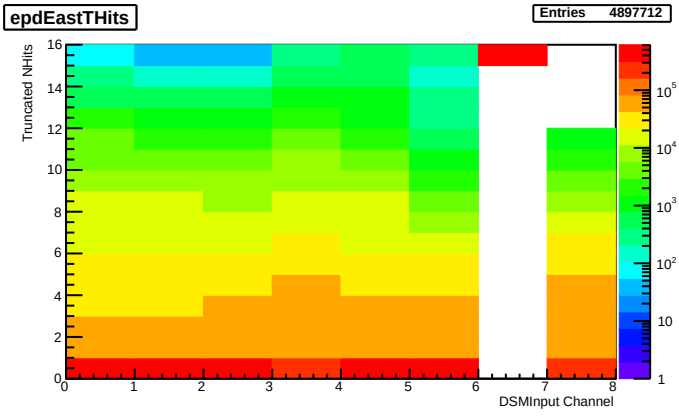

bbcSmallWestAdcSumVsSimu
Entries 519765
Data
Simu

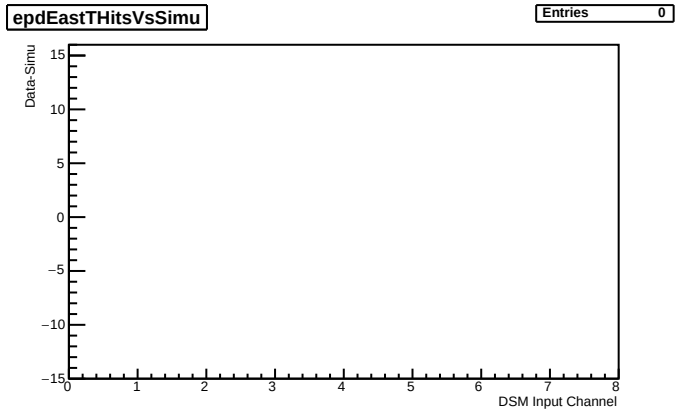

bbcSmallWestTacMax
Entries 612214

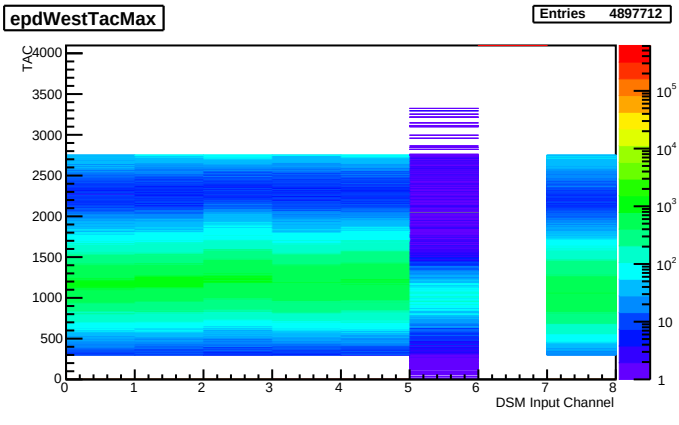

bbcSmallWestTacMaxVsSimu
Entries 519765
Data
Simu

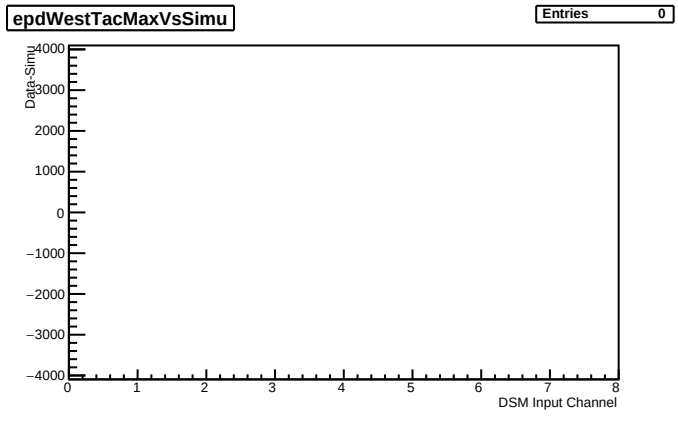

epdEastTacMax
Entries 4897712
TAC
DSM Input Channel

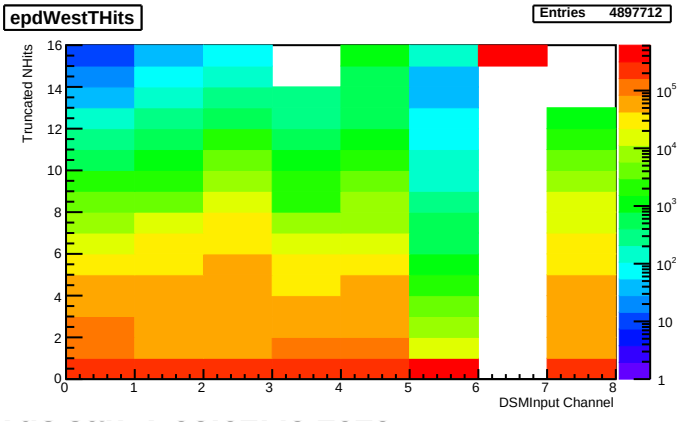

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

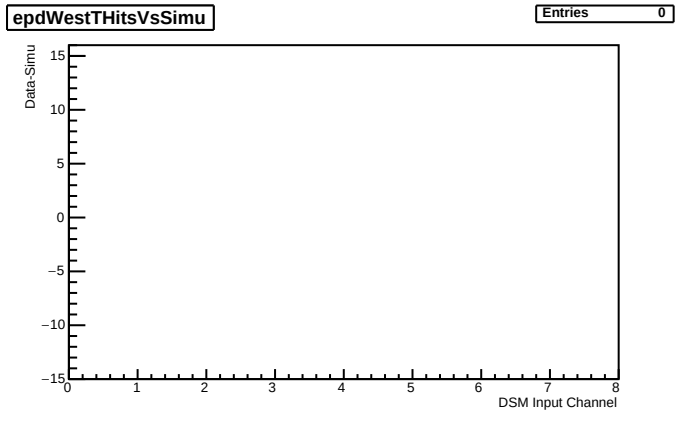

epdEastTHits
Entries 4897712
Truncated NHits
DSMInput Channel

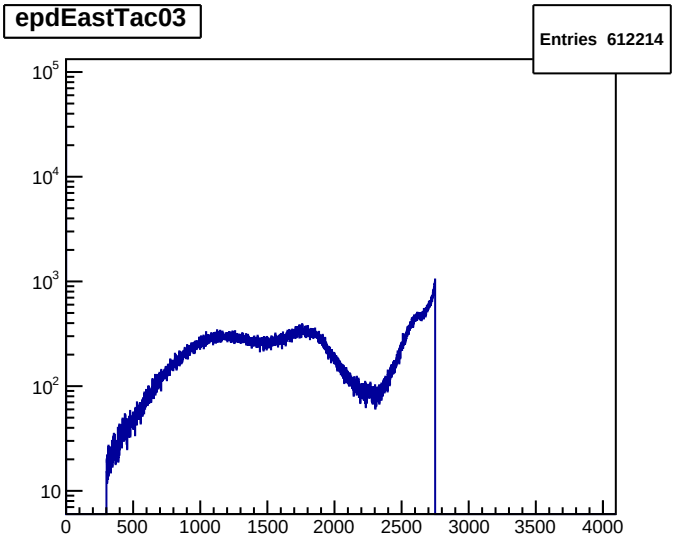

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

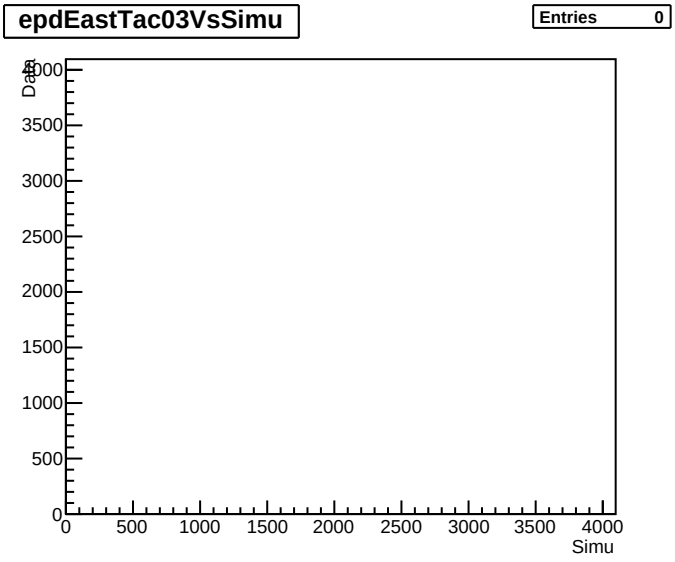

epdWestTacMax
Entries 4897712
TAC
DSM Input Channel

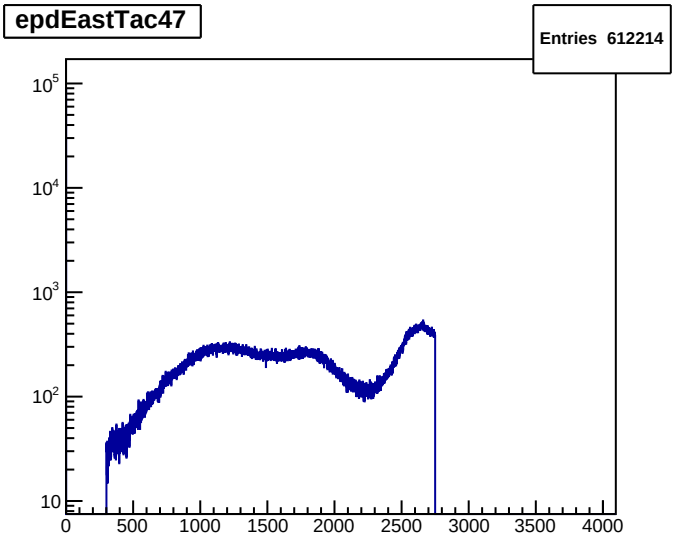

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

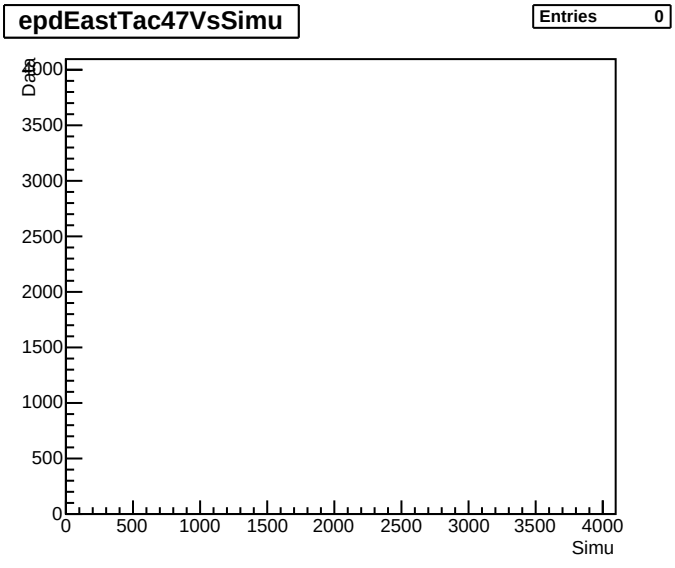

epdWestTHits
Entries 4897712
Truncated NHits
DSMInput Channel

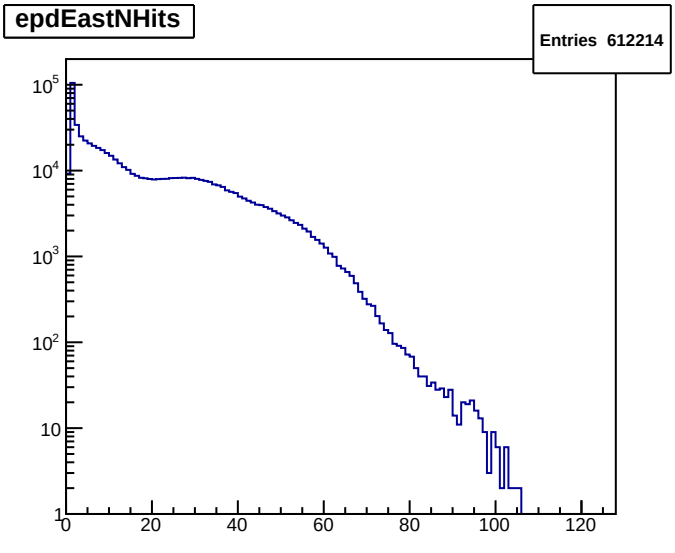

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

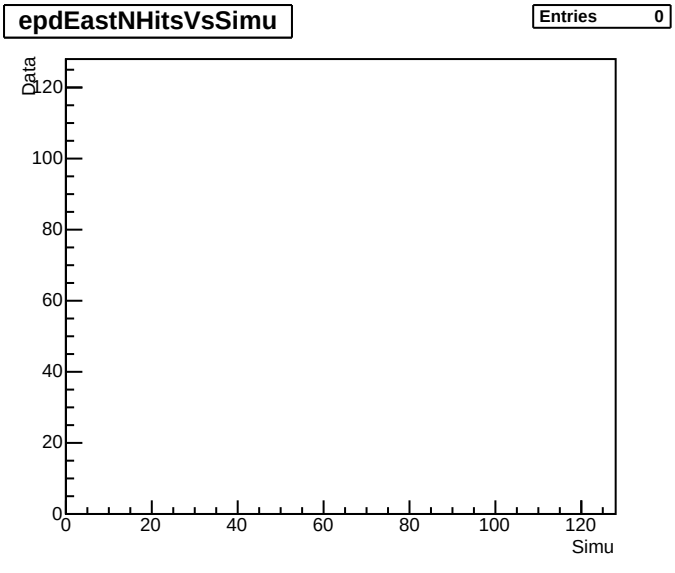

epdEastTac03
Entries 612214

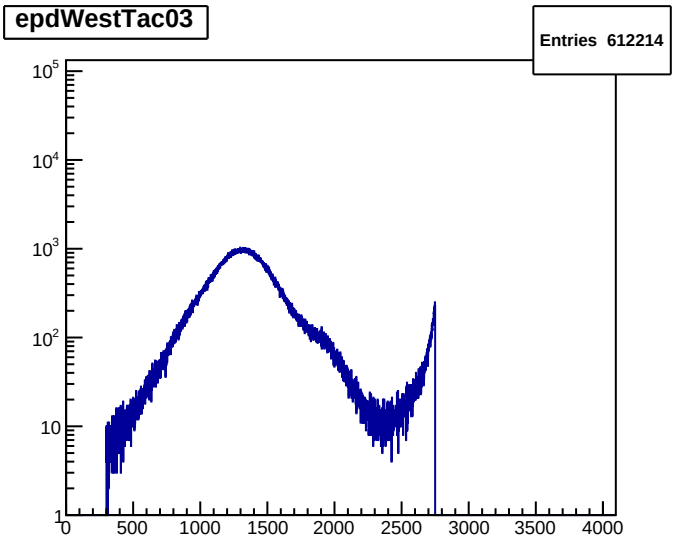

epdEastTac03VsSimu
Entries 0
Data
Simu

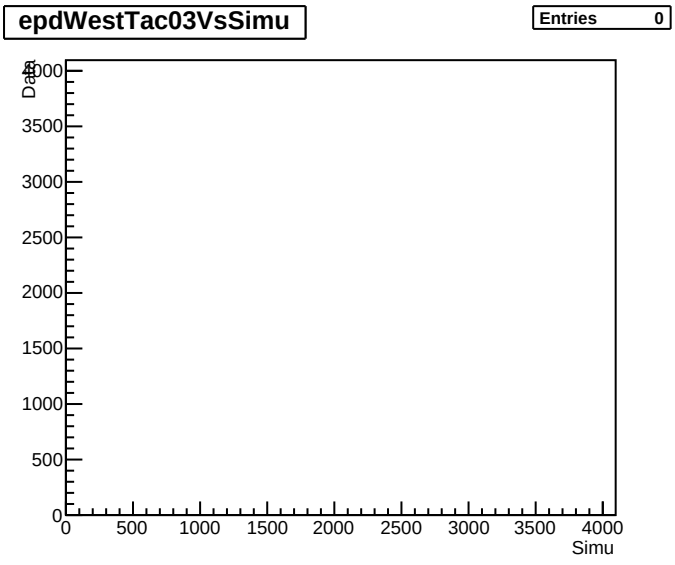

epdEastTac47
Entries 612214

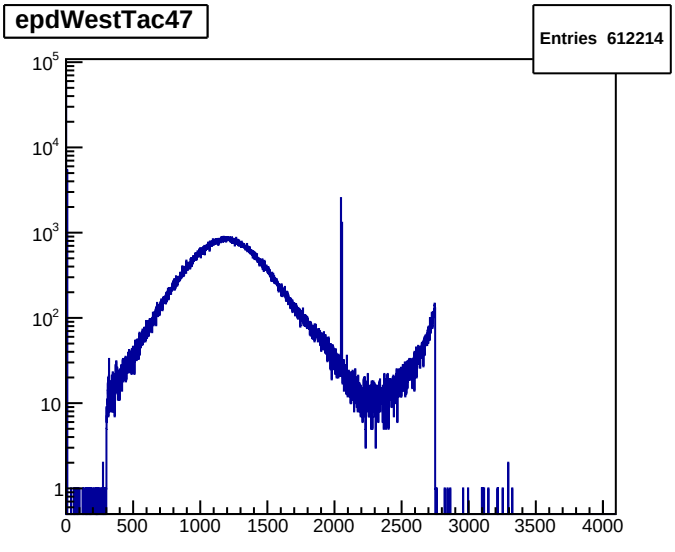

epdEastTac47VsSimu
Entries 0
Data
Simu

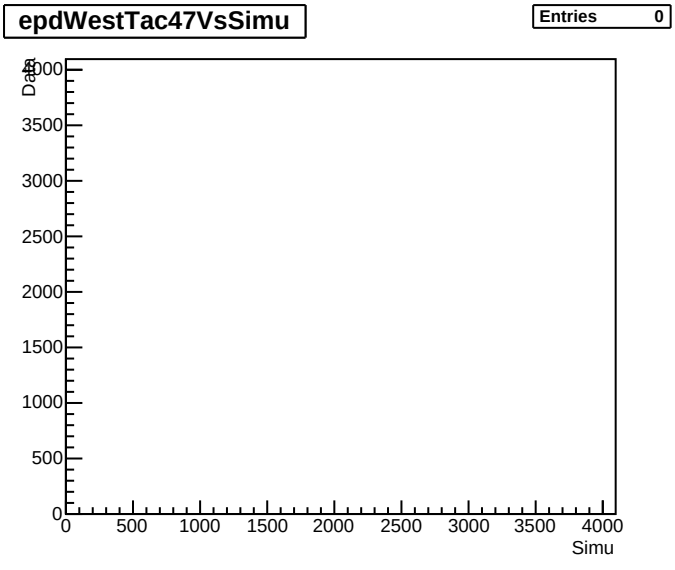

epdEastNHits
Entries 612214

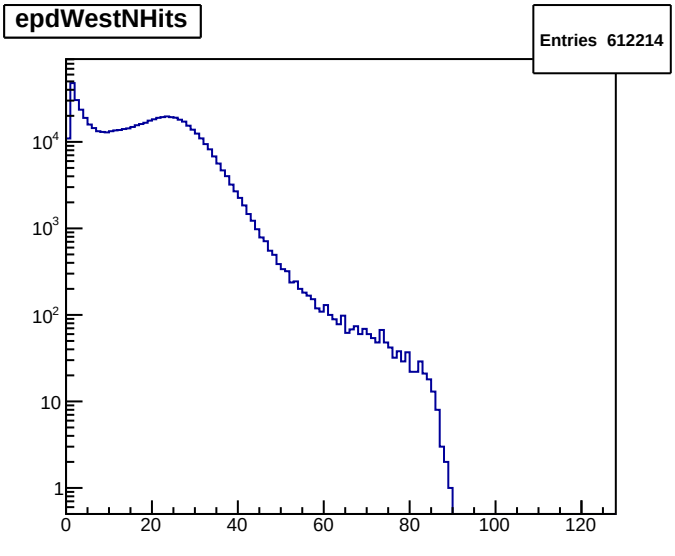

epdEastNHitsVsSimu
Entries 0
Data
Simu

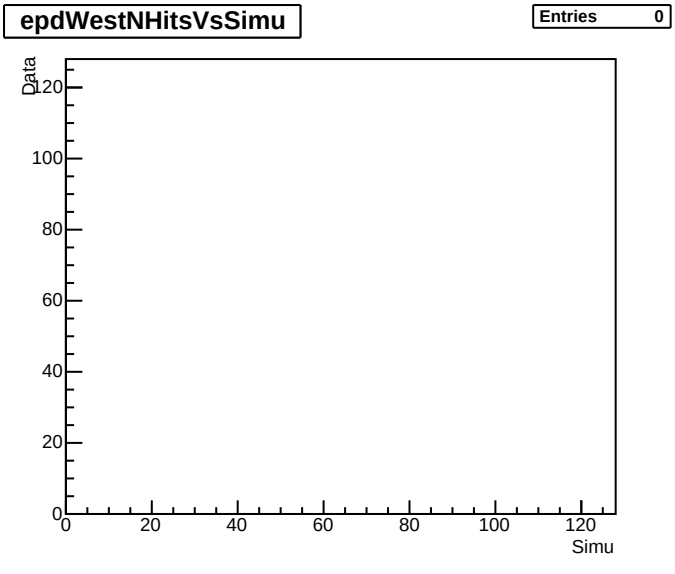

epdWestTac03
Entries 612214

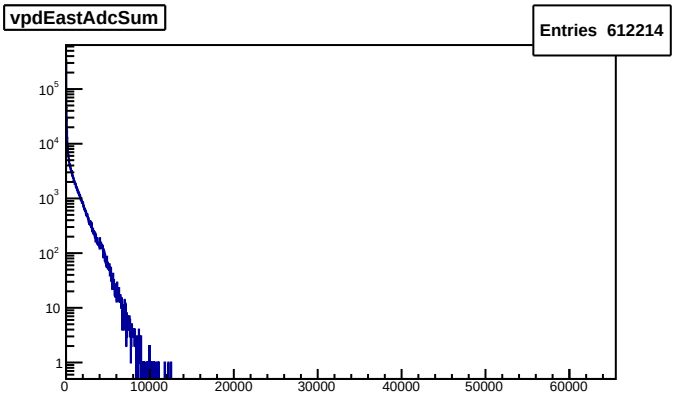

epdWestTac03VsSimu
Entries 0
Data
Simu

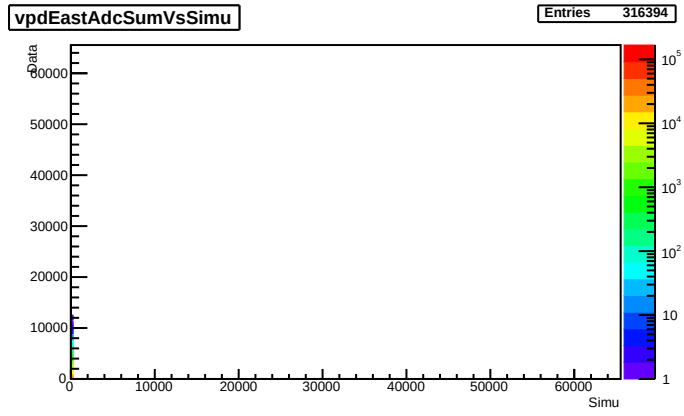

epdWestTac47
Entries 612214

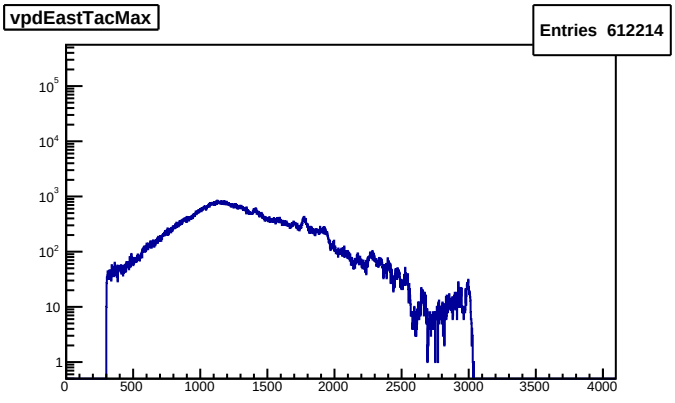

epdWestTac47VsSimu
Entries 0
Data
Simu

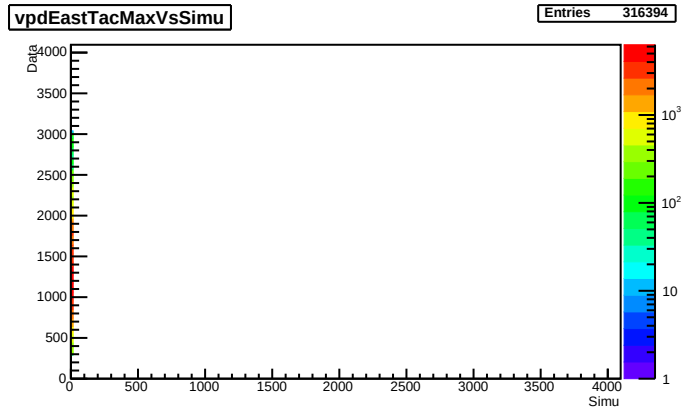

epdWestNHits
Entries 612214

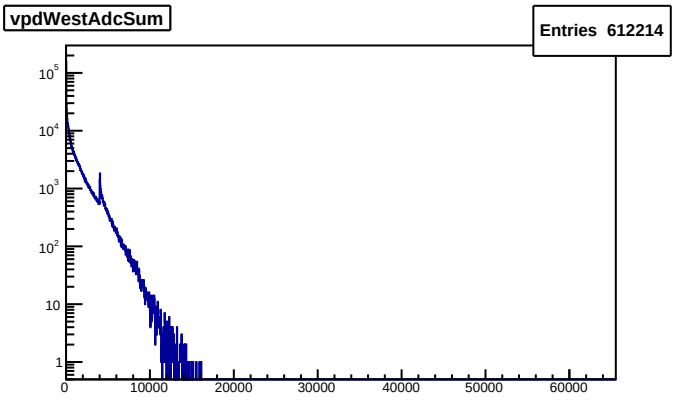

epdWestNHitsVsSimu
Entries 0
Data
Simu

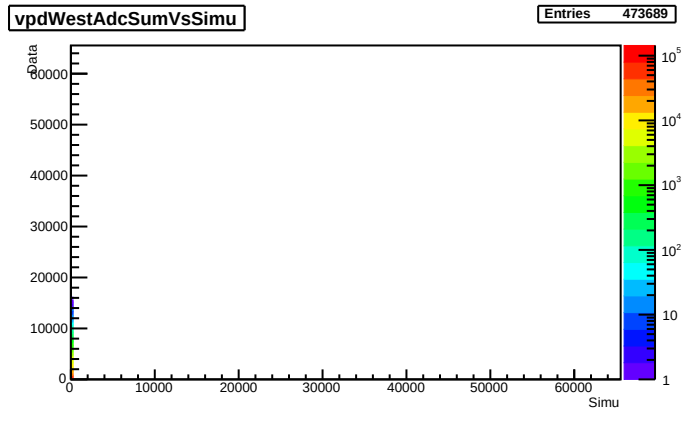

vpdEastAdcSum
Entries 612214

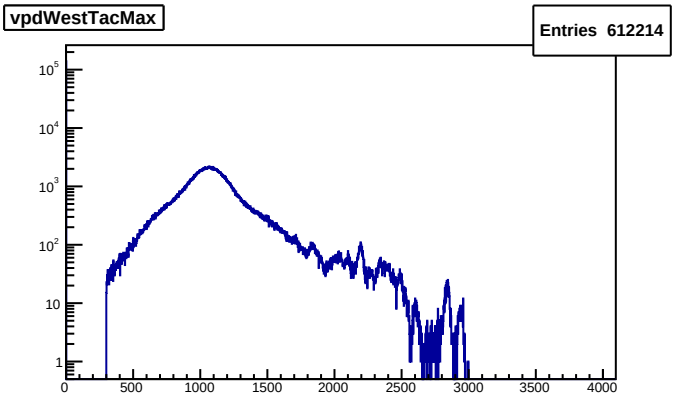

vpdEastAdcSumVsSimu
Entries 316394
Data
Simu

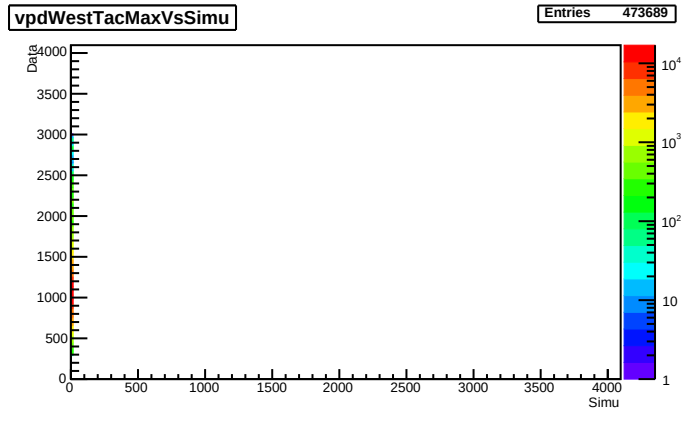

vpdEastTacMax
Entries 612214

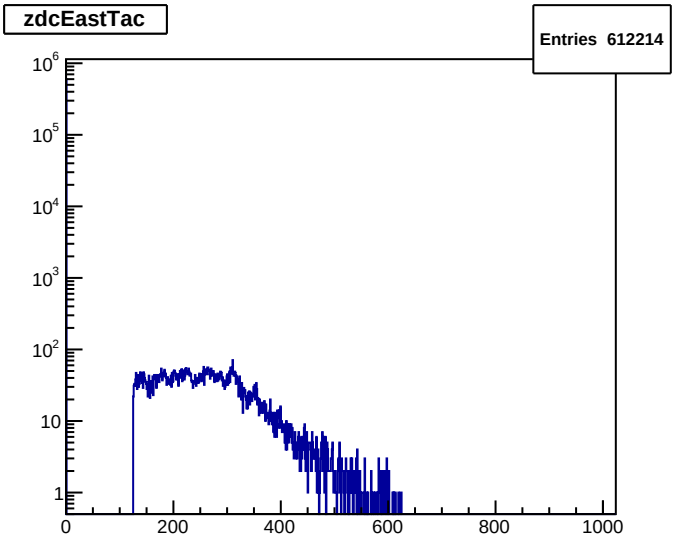

vpdEastTacMaxVsSimu
Entries 316394
Data
Simu

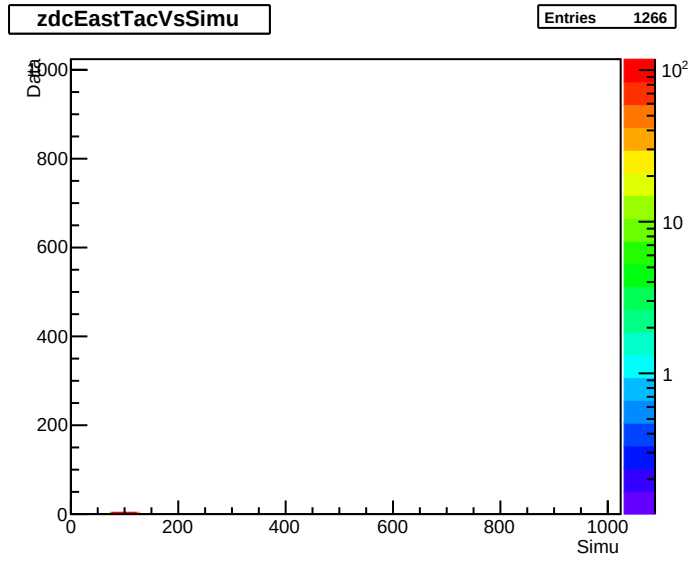

vpdWestAdcSum
Entries 612214

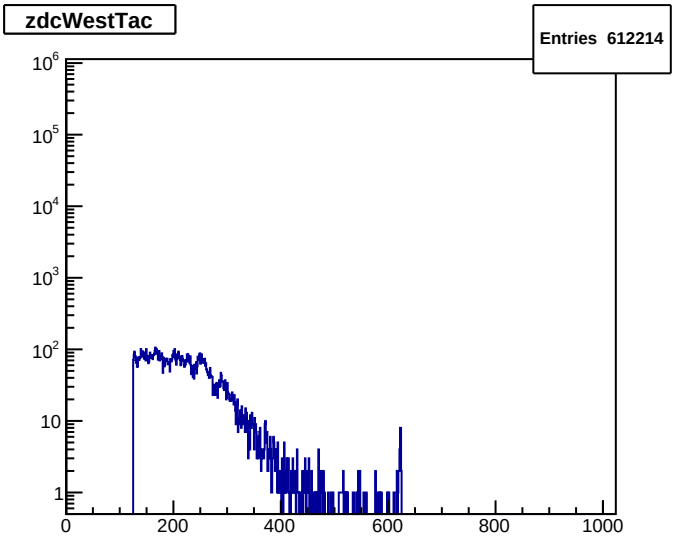

vpdWestAdcSumVsSimu
Entries 473689
Data
Simu

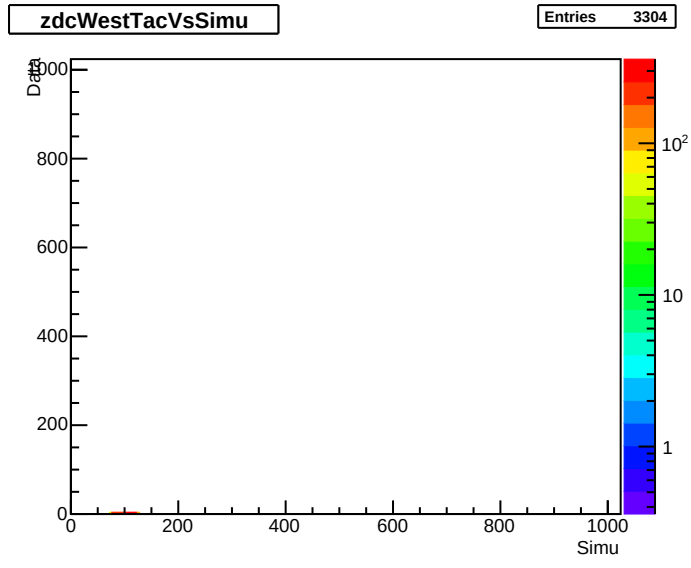

vpdWestTacMax
Entries 612214

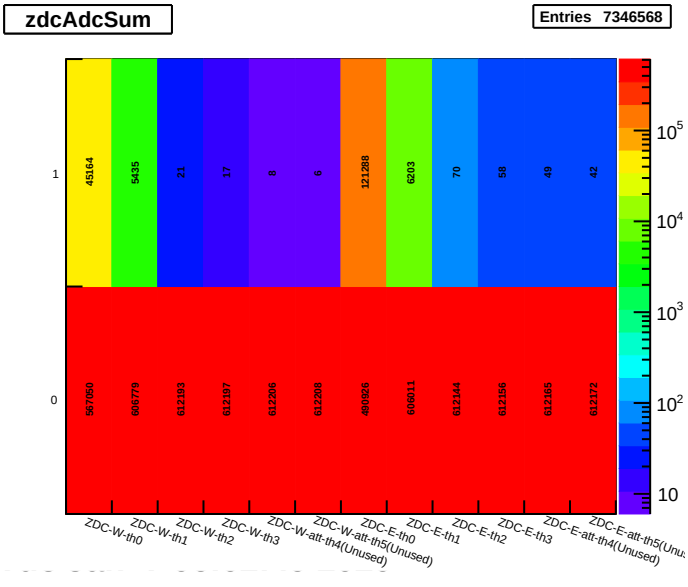

vpdWestTacMaxVsSimu
Entries 473689
Data
Simu

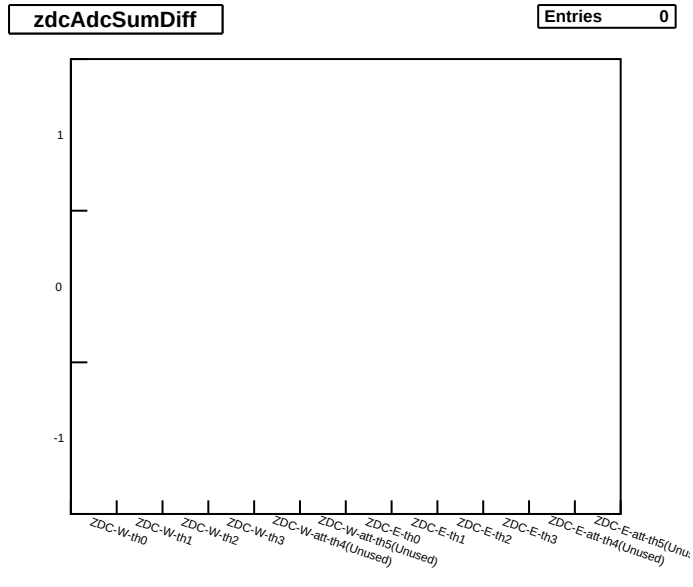

zdcEastTac
Entries 612214

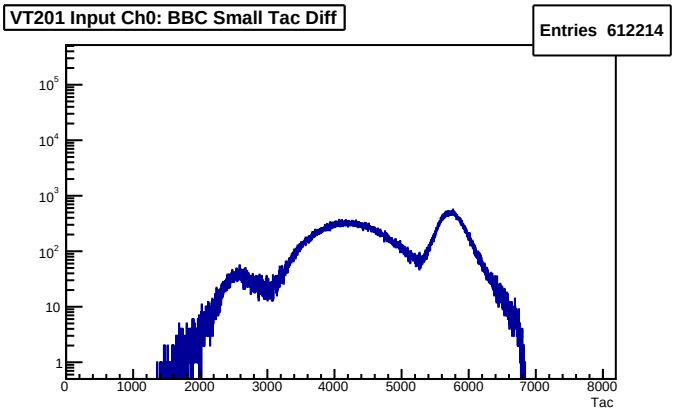

zdcEastTacVsSimu
Entries 1266
Data
Simu

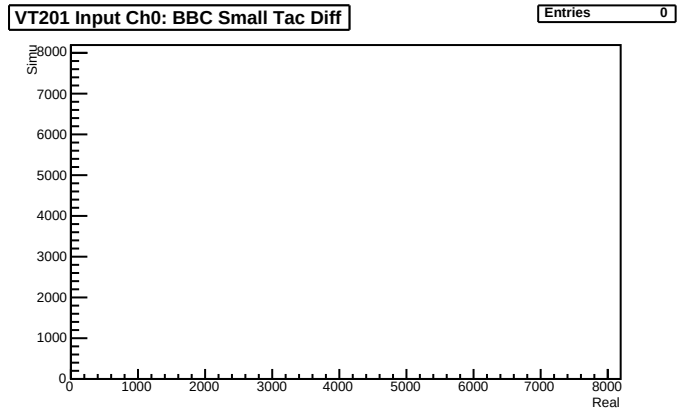

zdcWestTac
Entries 612214

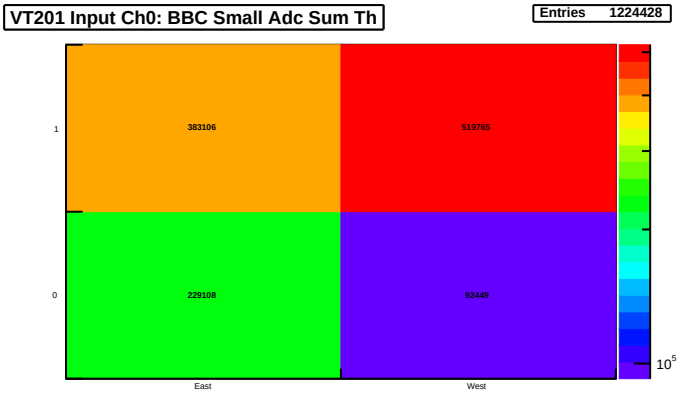

zdcWestTacVsSimu
Entries 3304
Data
Simu

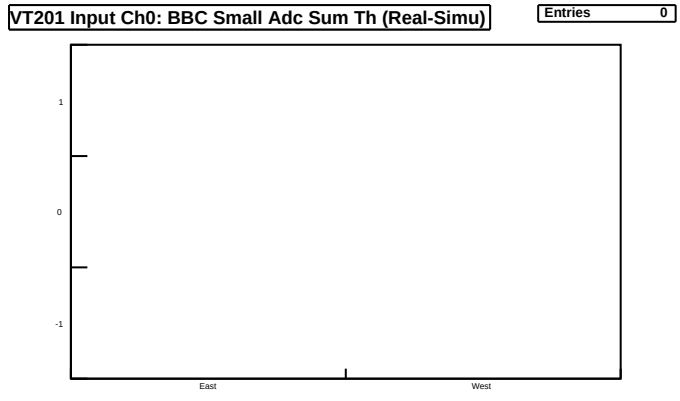

zdcAdcSum
Entries 7346568
45164
5435
21
17
8
6
121288
6203
70
58
49
42
567050
606779
612193
612197
612206
612208
490926
606011
612144
612156
612165
612172
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

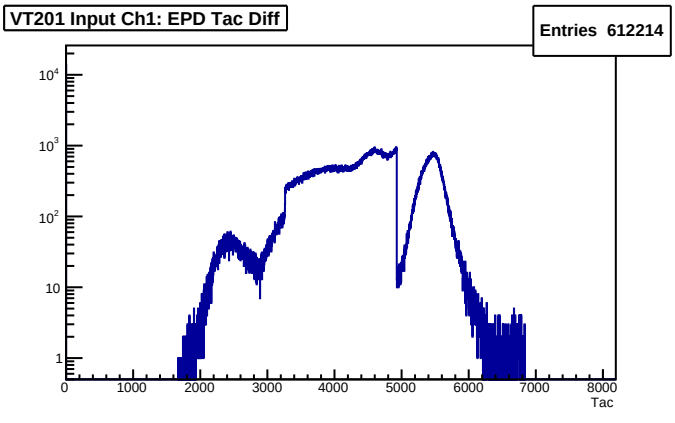

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

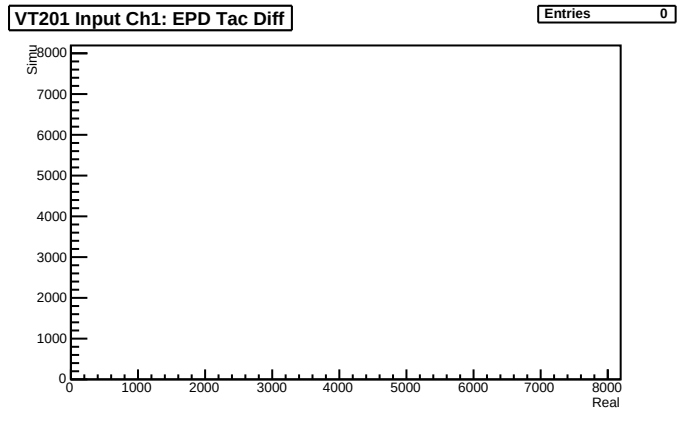

VT201 Input Ch0: BBC Small Tac Diff
Entries 612214
Tac

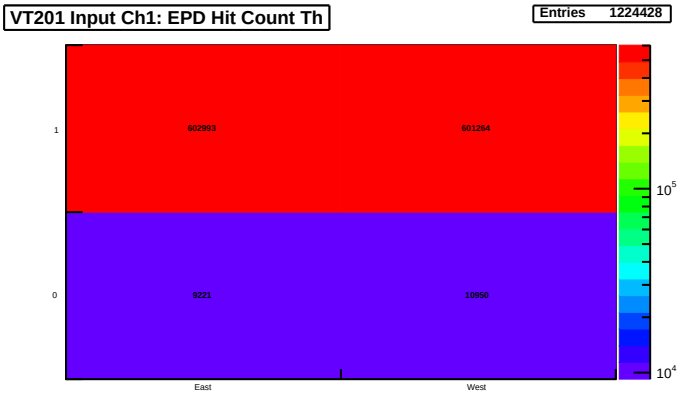

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

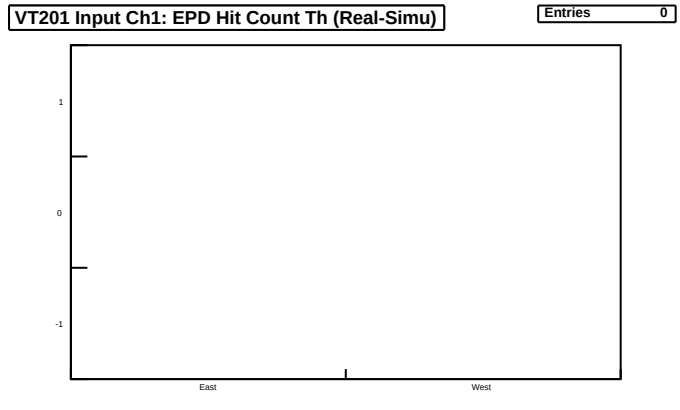

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1224428
383106
519765
229108
92449
East
West

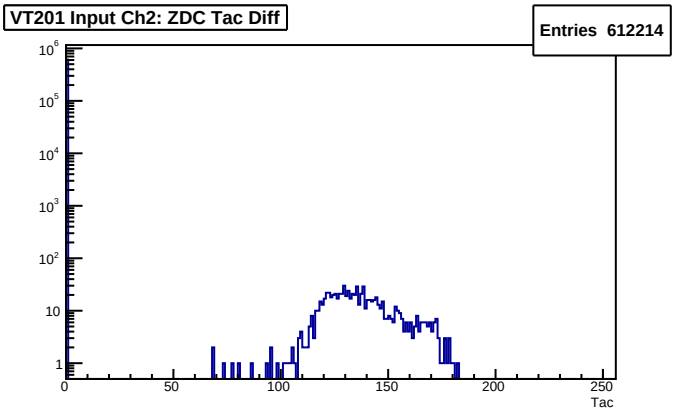

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

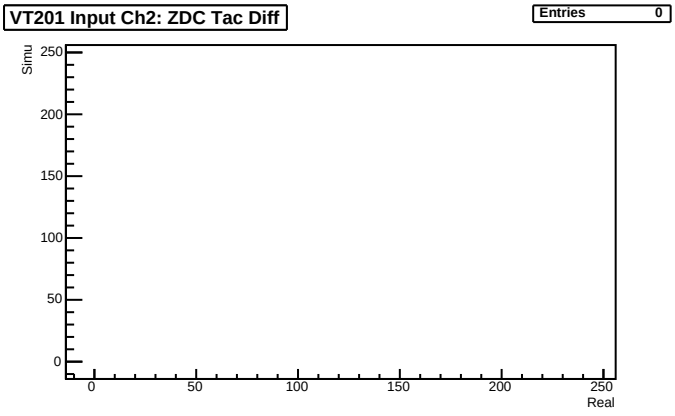

VT201 Input Ch1: EPD Tac Diff
Entries 612214
Tac

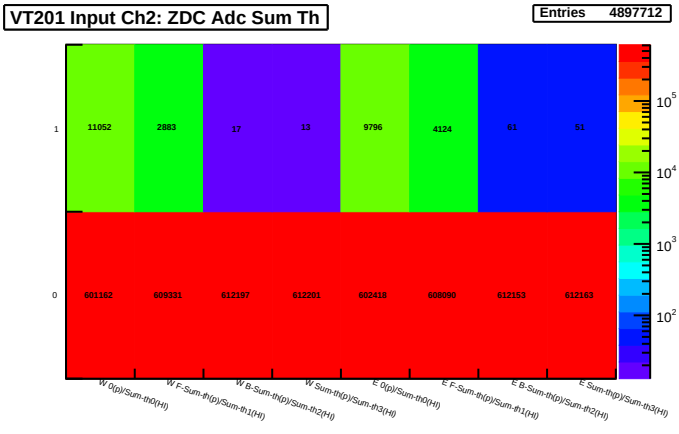

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

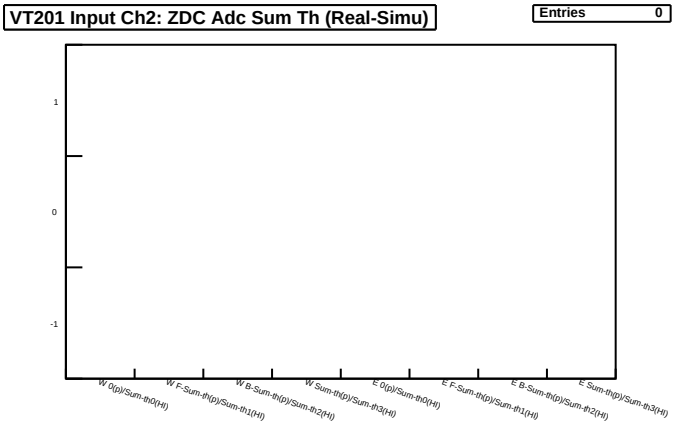

VT201 Input Ch1: EPD Hit Count Th
Entries 1224428
602993
601264
9221
10950
East
West

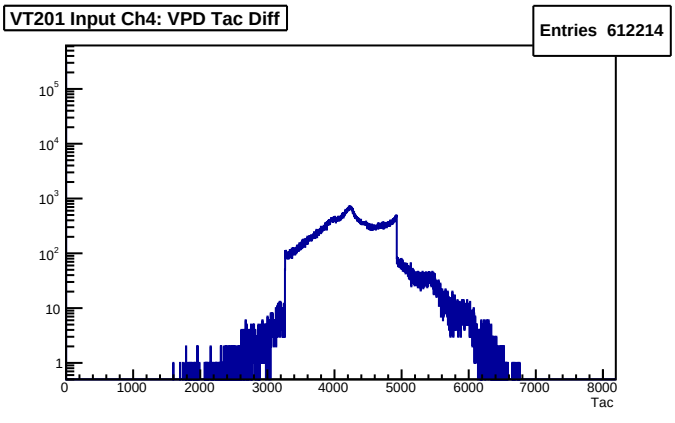

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

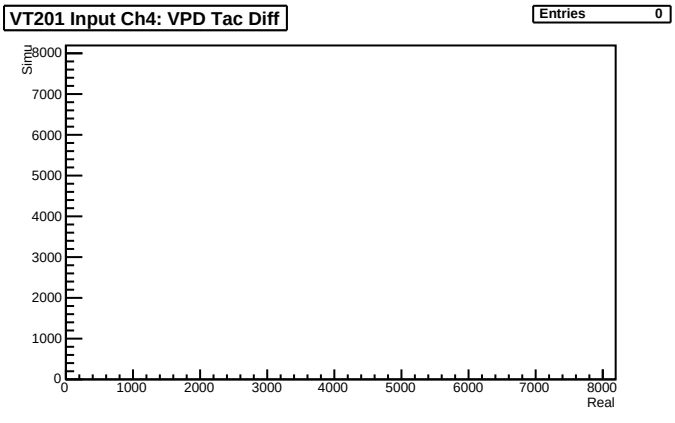

VT201 Input Ch2: ZDC Tac Diff
Entries 612214
Tac

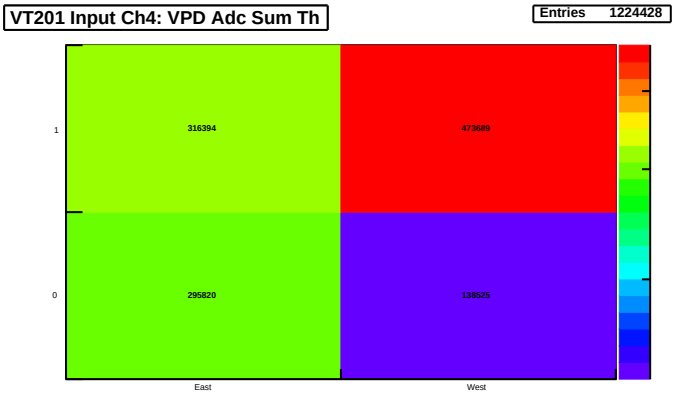

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

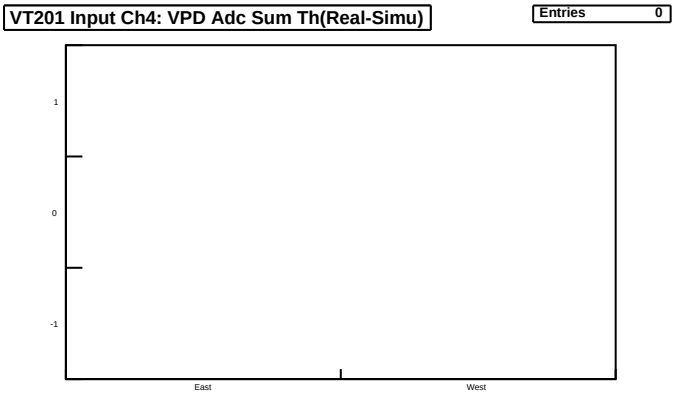

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4897712
11052
2883
17
13
9796
4124
61
51
601162
609331
612197
612201
602418
608090
612153
612163
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

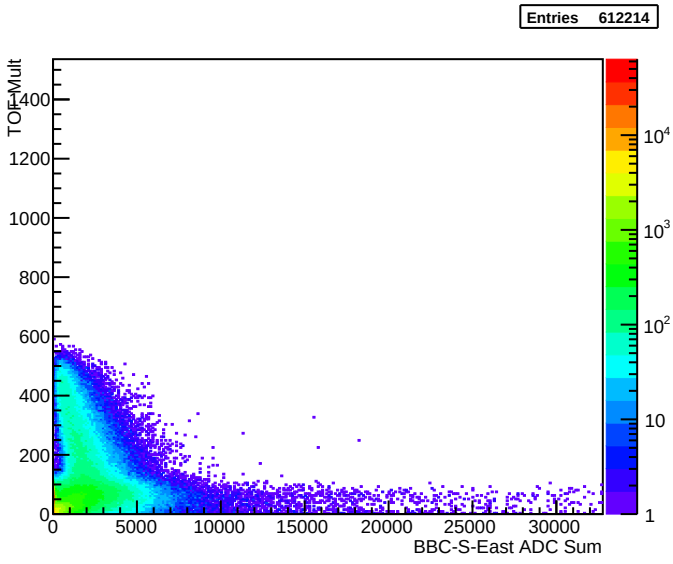

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

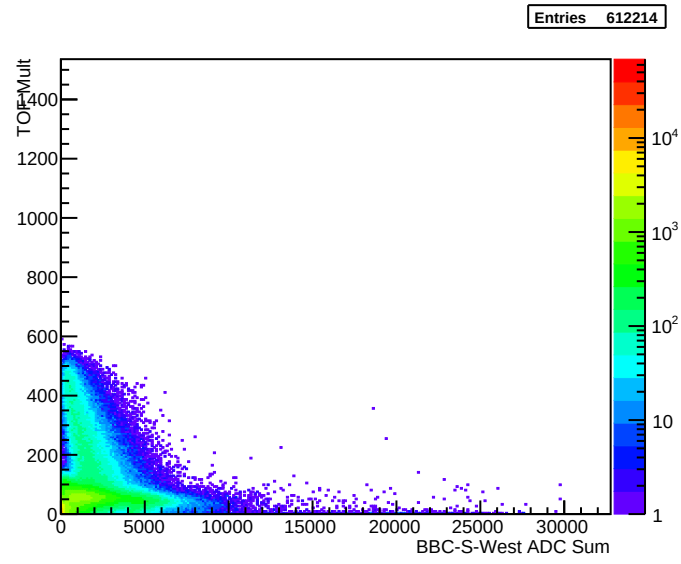

VT201 Input Ch4: VPD Tac Diff
Entries 612214
Tac

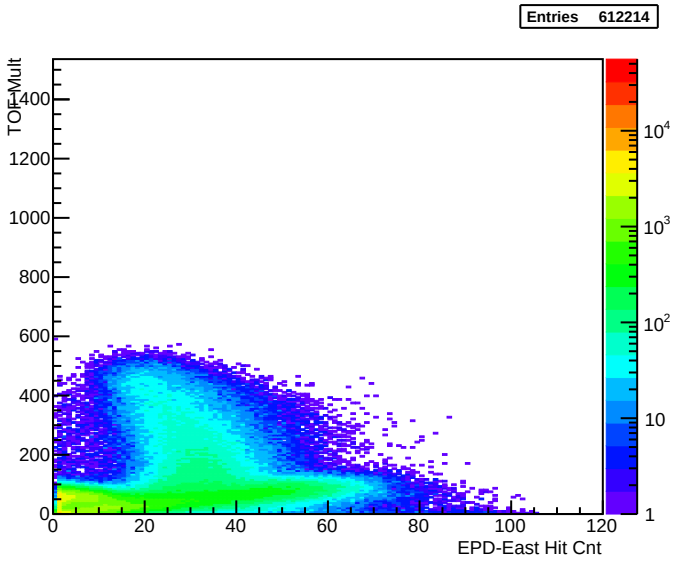

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

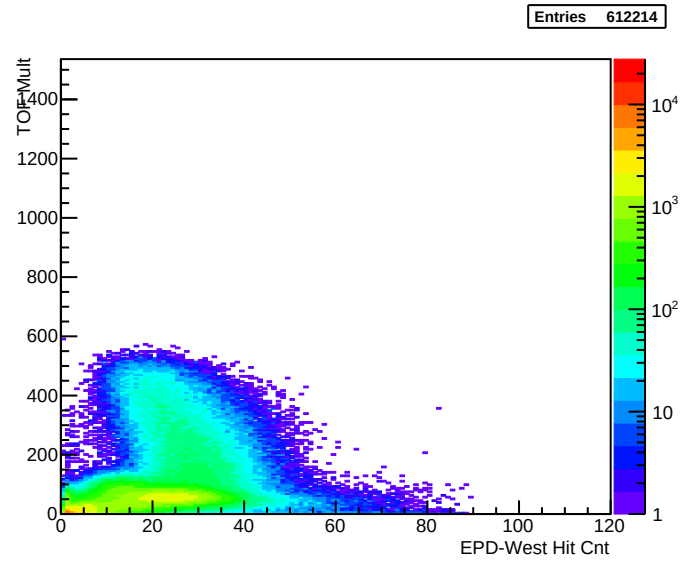

VT201 Input Ch4: VPD Adc Sum Th
Entries 1224428
316394
473689
295820
138525
East
West

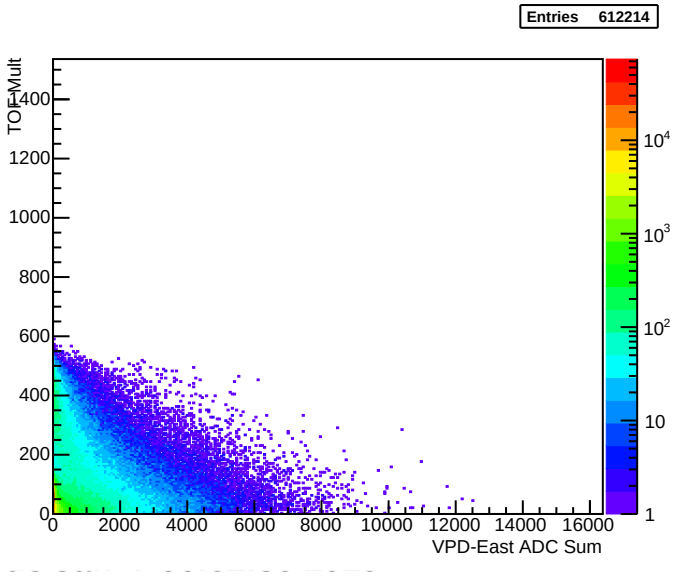

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

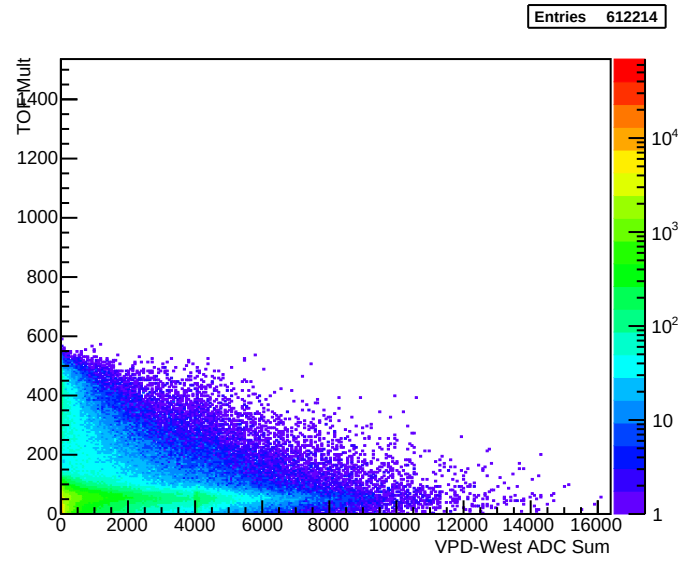

Entries 612214
TOF-Mult
BBC-S-East ADC Sum

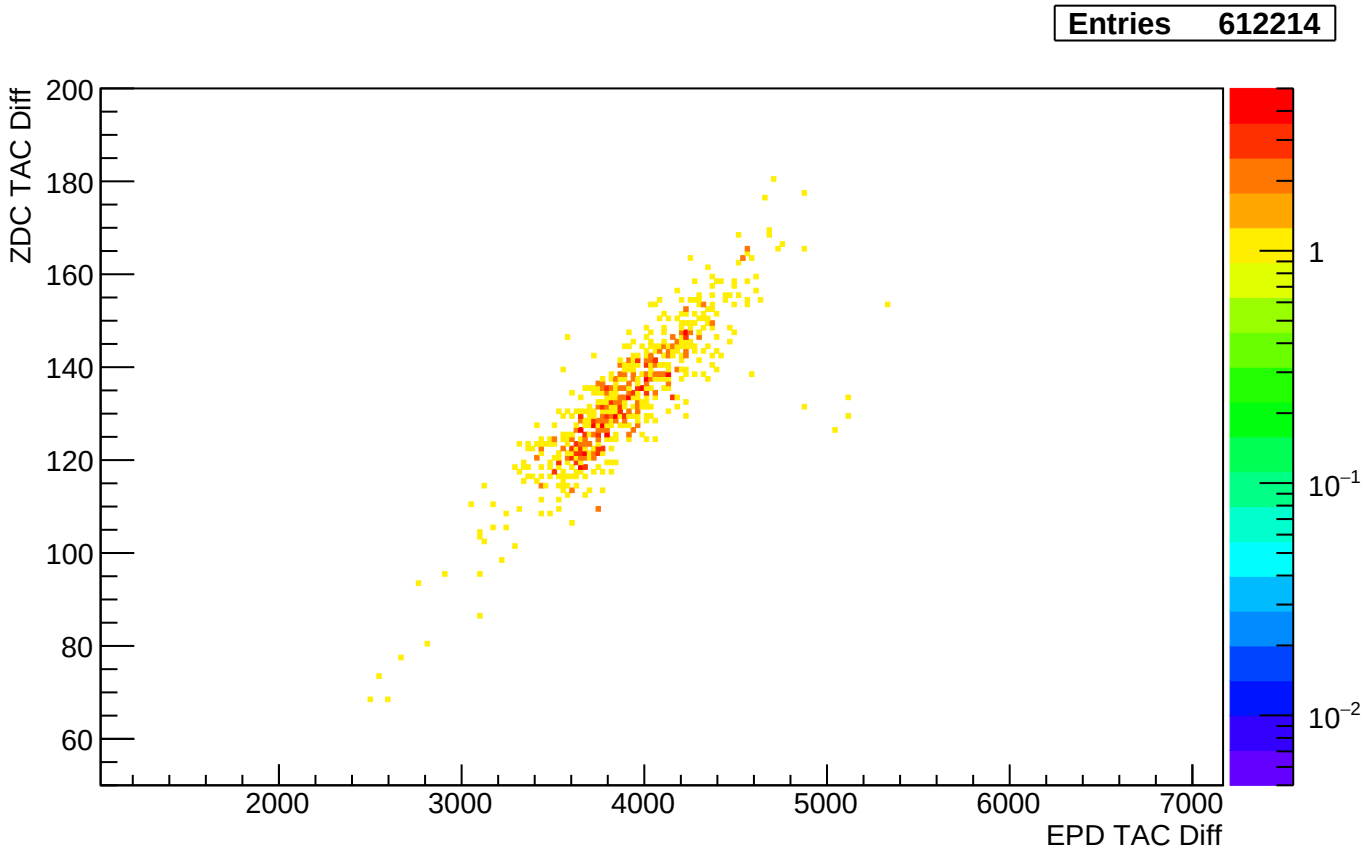

Entries 612214
TOF-Mult
BBC-S-West ADC Sum

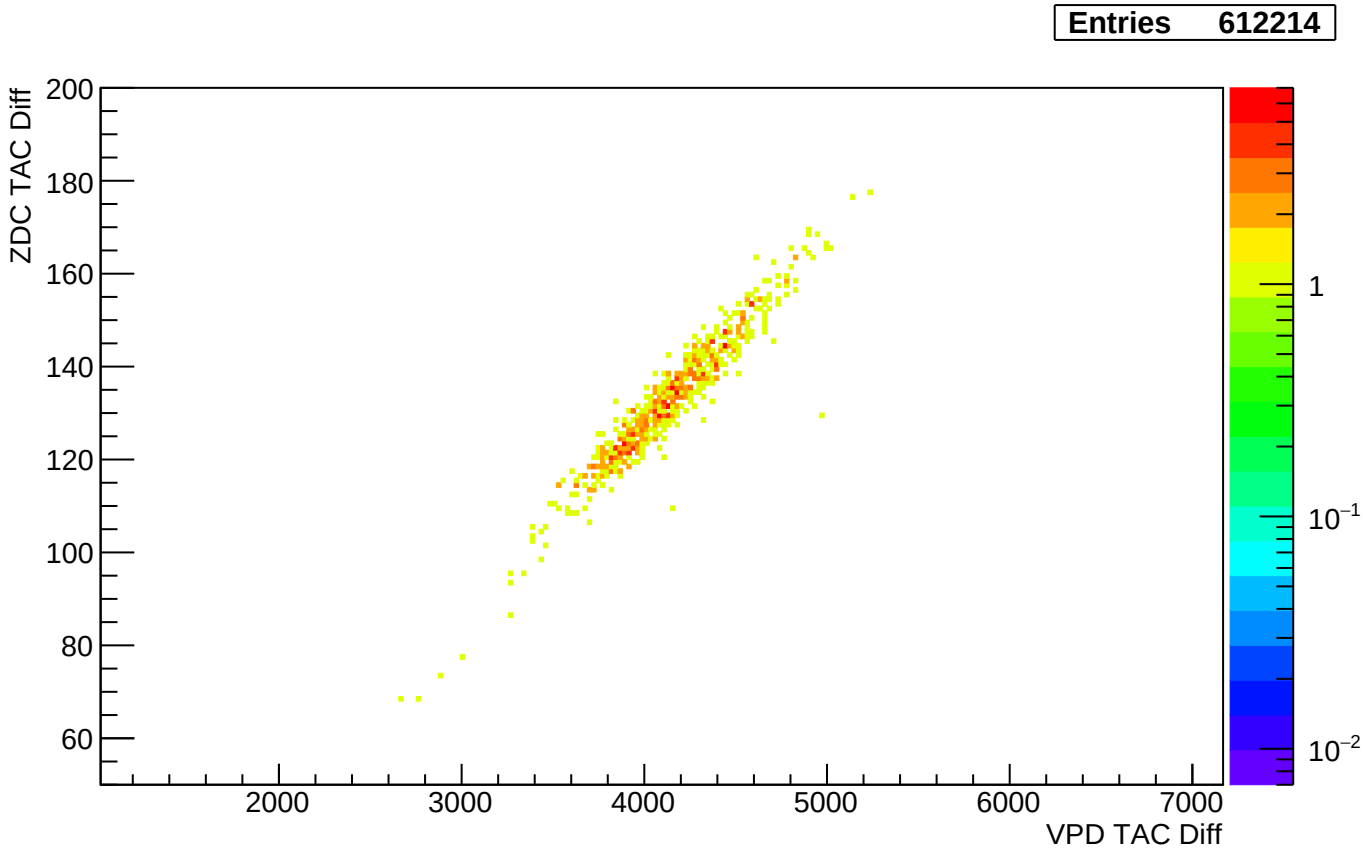

Entries 612214
TOF-Mult
EPD-East Hit Cnt

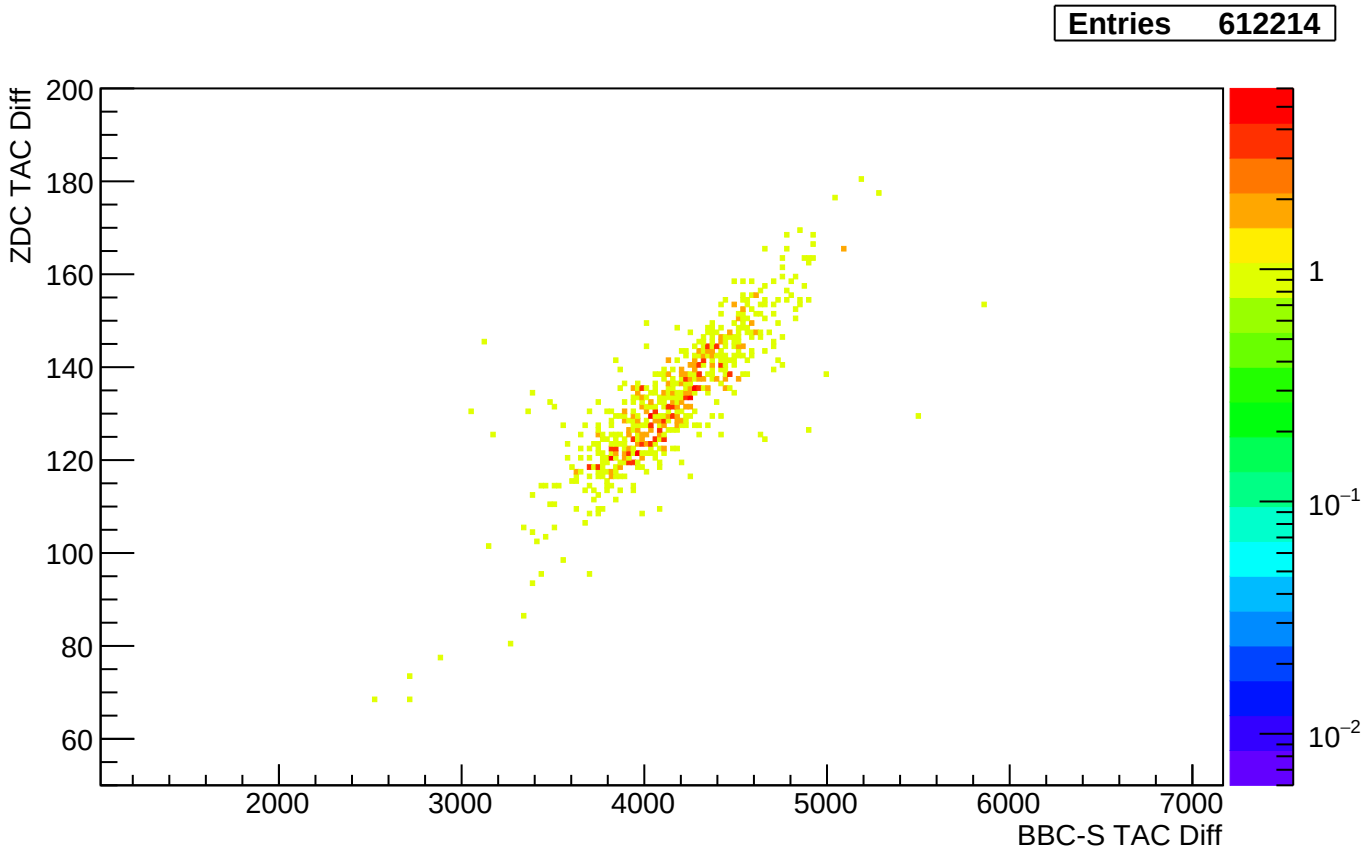

Entries 612214
TOF-Mult
EPD-West Hit Cnt

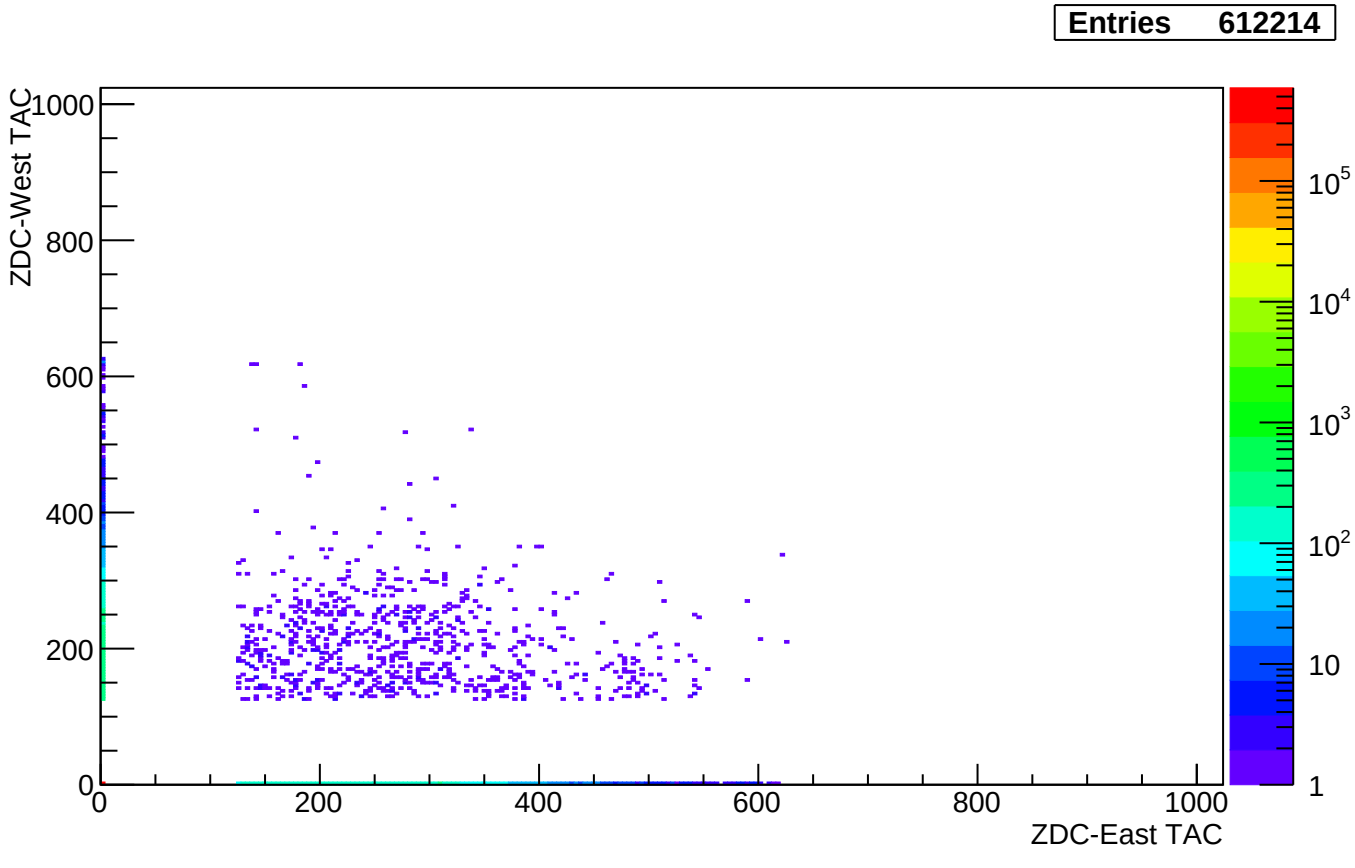

Entries 612214
TOF-Mult
VPD-East ADC Sum

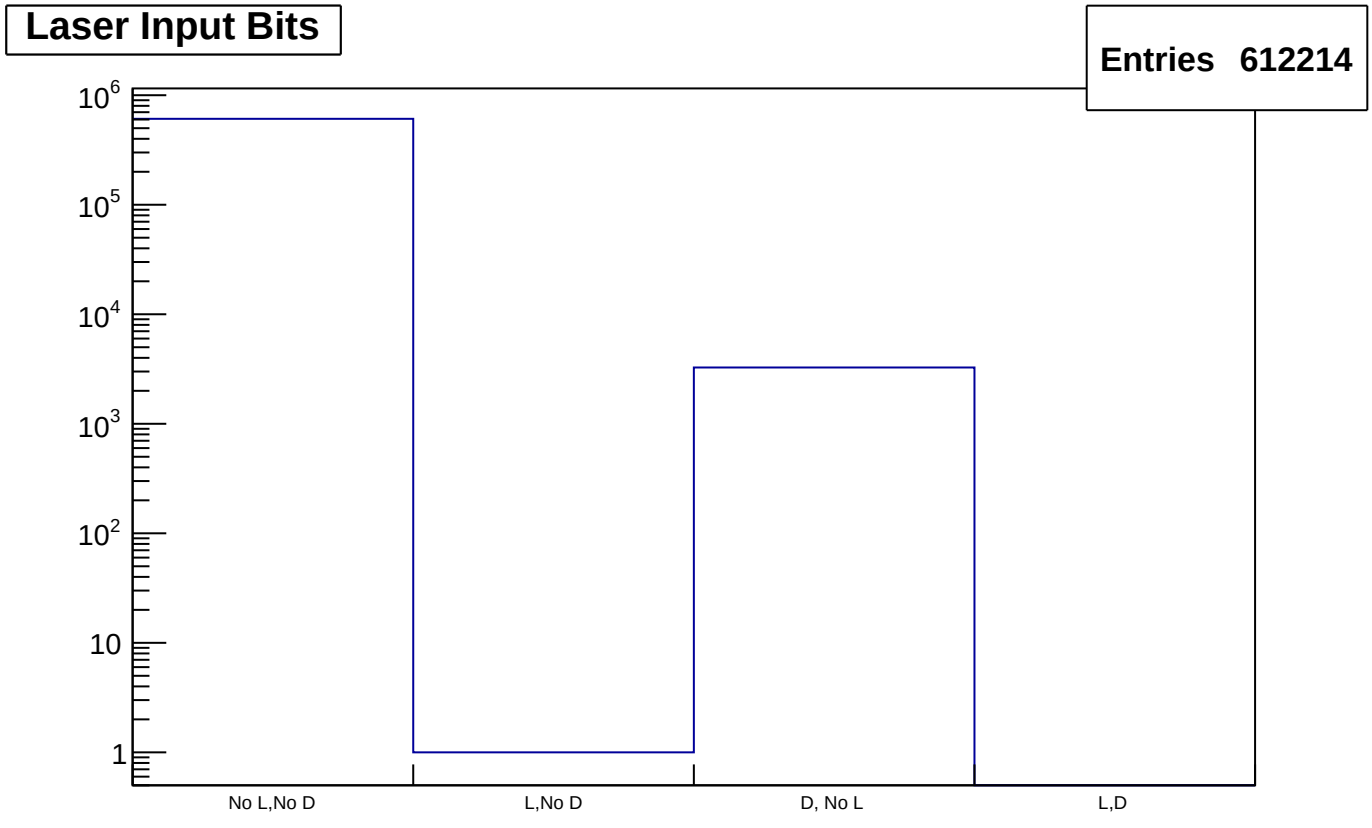

Entries 612214
TOF-Mult
VPD-West ADC Sum

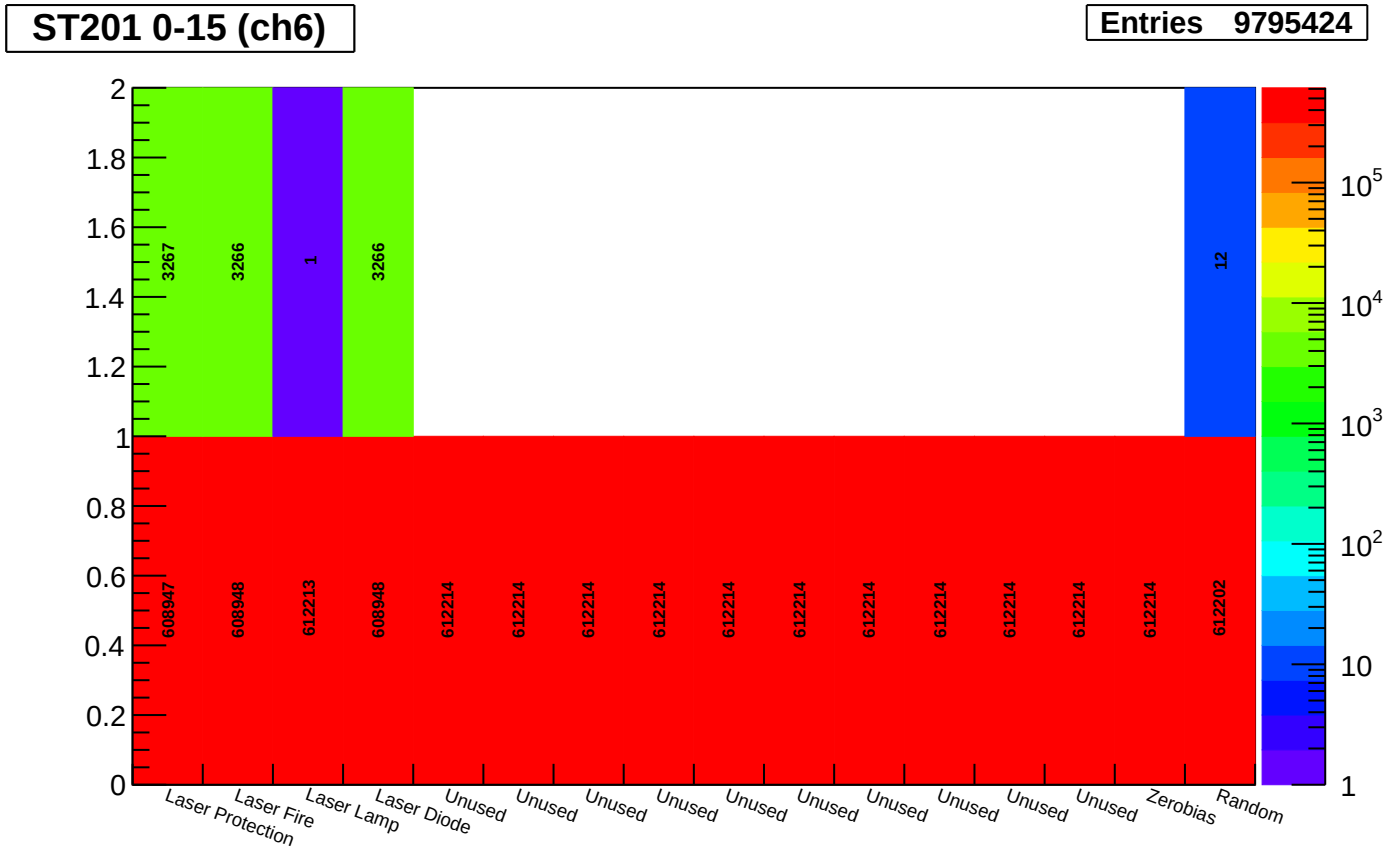

Entries 612214
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

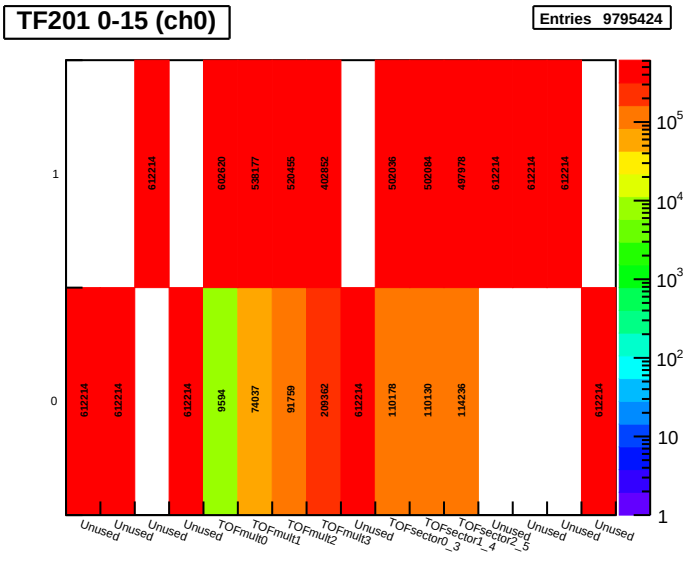

Entries 612214
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

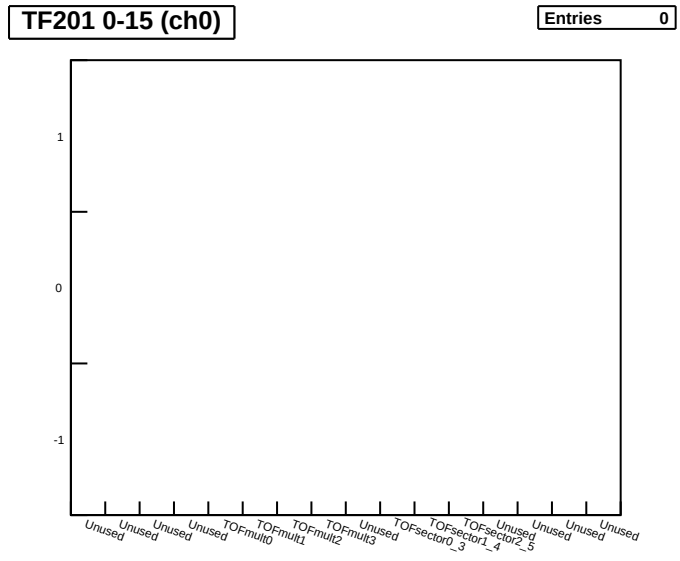

Entries 612214
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

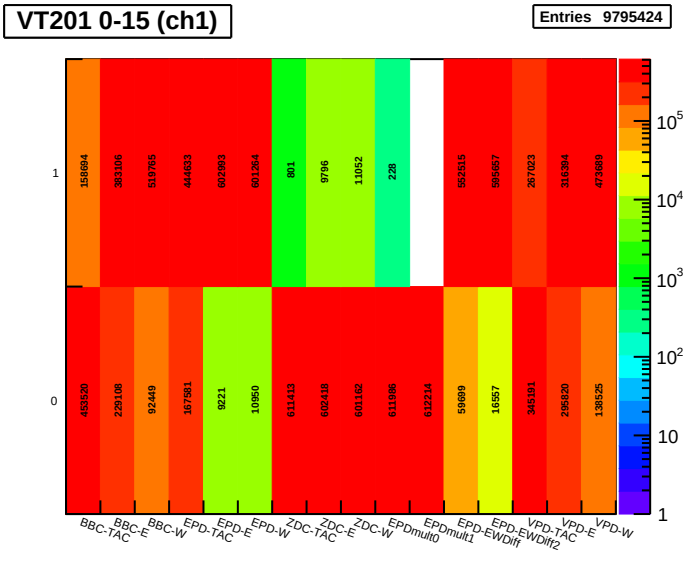

Entries 612214
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

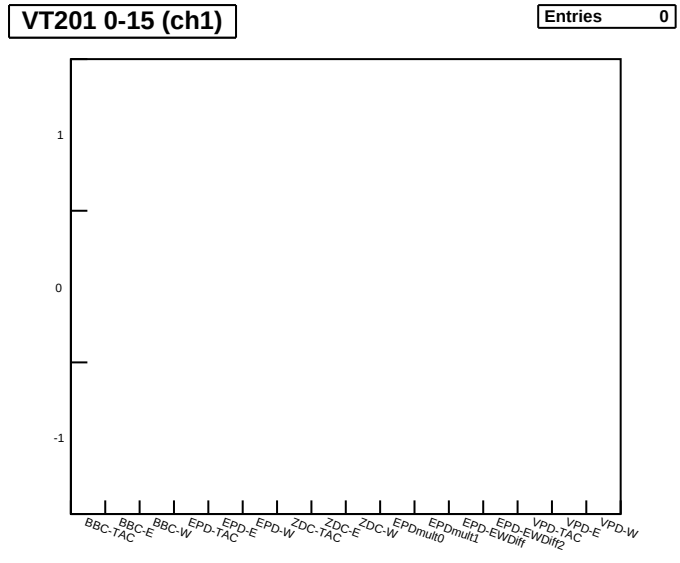

Laser Input Bits
Entries 612214
10^6
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

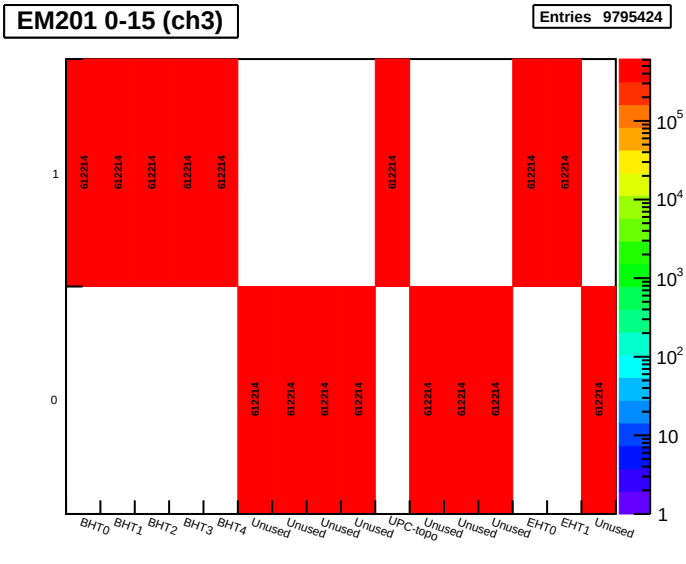

ST201 0-15 (ch6)
Entries 9795424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3267
3266
1
3266
12
608947
608948
612213
608948
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612202
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

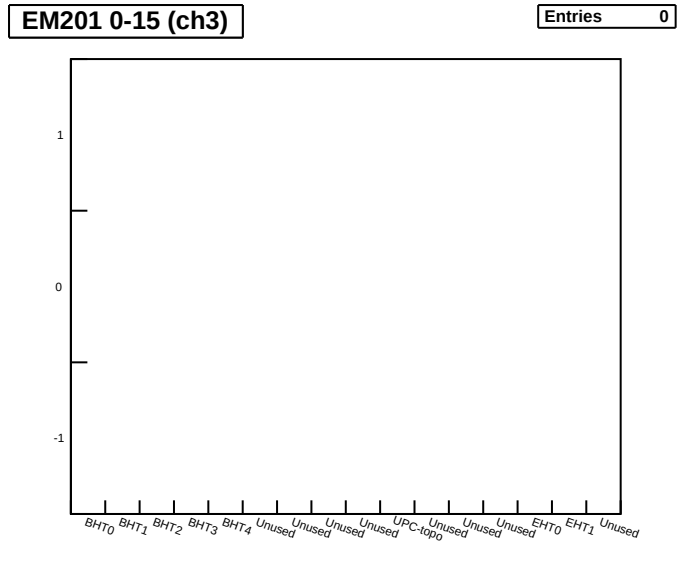

TF201 0-15 (ch0)
Entries 9795424
1
0
612214
602620
538177
520455
402852
502036
502084
497978
612214
612214
612214
612214
612214
612214
612214
9594
74037
91759
209362
612214
110178
110130
114236
612214
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^5
10^4
10^3
10^2
10
1


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


VT201 0-15 (ch1)
Entries 9795424
1
0
158694
383106
519765
444633
602993
601264
801
9796
11052
228
552515
595657
267023
316394
473689
453520
229108
92449
167581
9221
10950
611413
602418
601162
611986
612214
59699
16557
345191
295820
138525
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W
10^5
10^4
10^3
10^2
10
1


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


EM201 0-15 (ch3)
Entries 9795424
1
0
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
612214
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^5
10^4
10^3
10^2
10
1


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