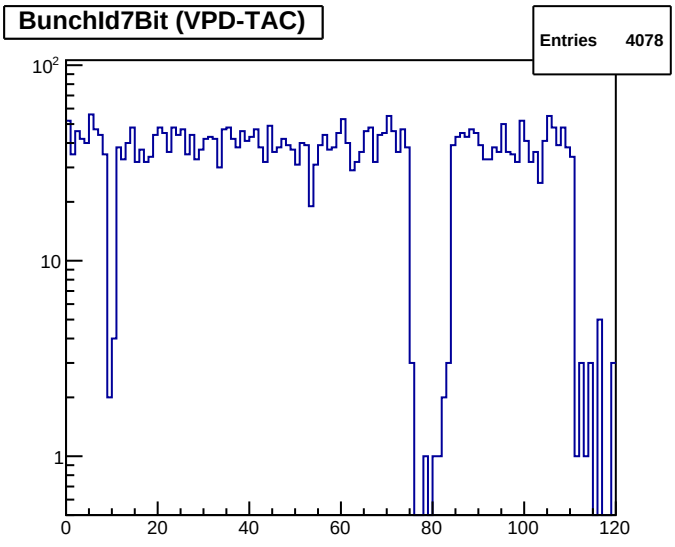
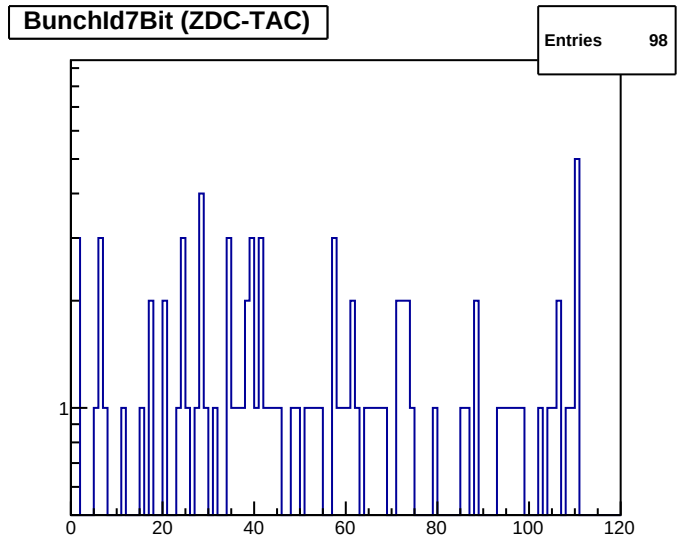
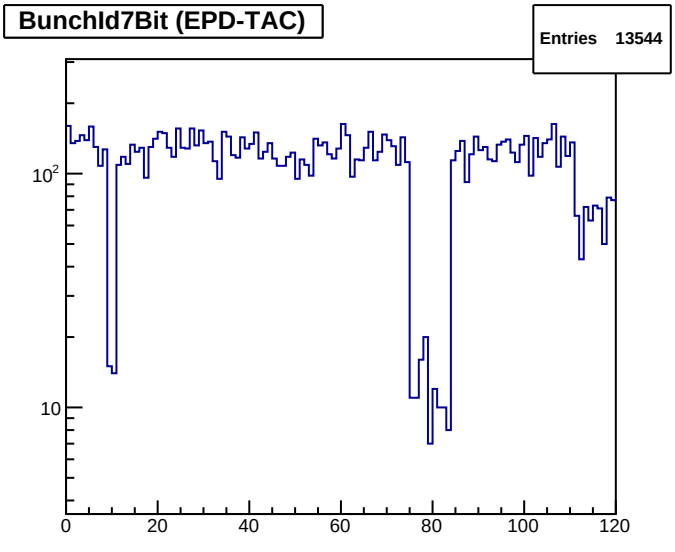
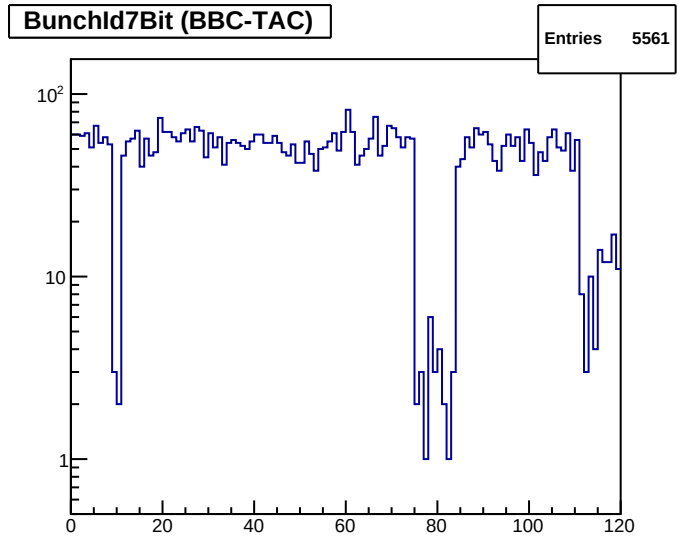
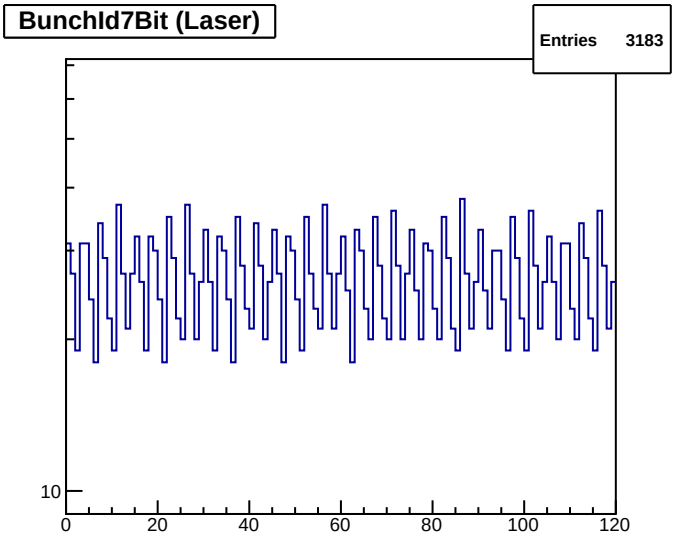
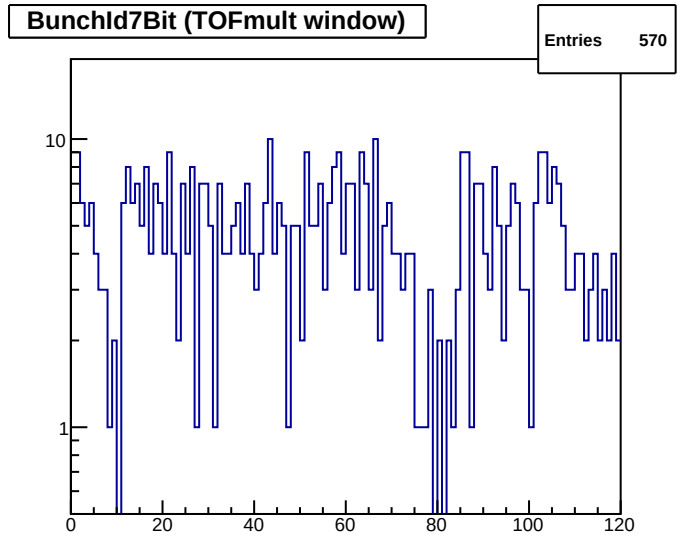

BunchId7Bit (VPD-TAC)
Entries 4078
10^2
10
1
0
20
40
60
80
100
120

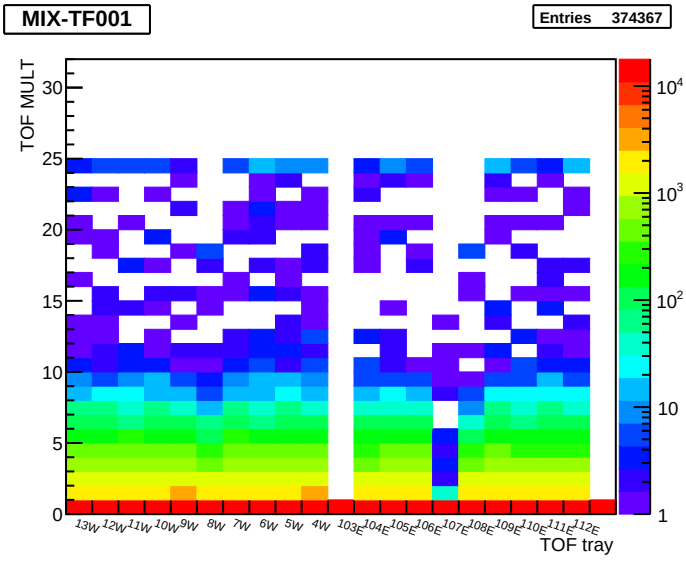

BunchId7Bit (ZDC-TAC)
Entries 98
1
0
20
40
60
80
100
120

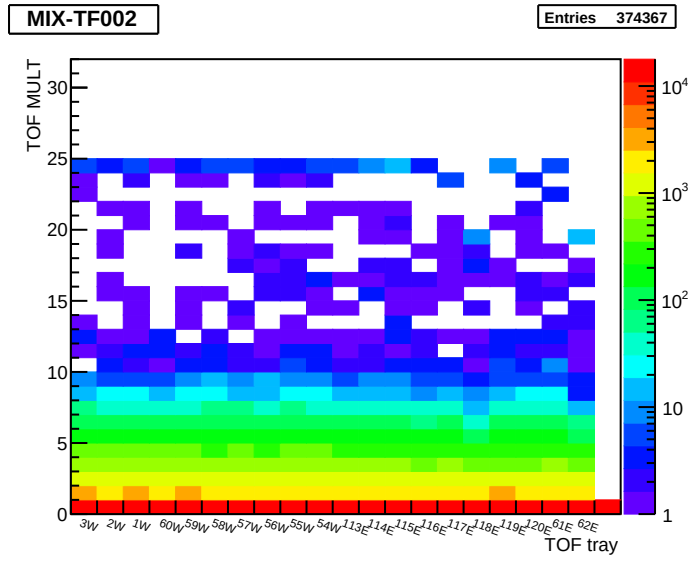

BunchId7Bit (EPD-TAC)
Entries 13544
10^2
10
0
20
40
60
80
100
120

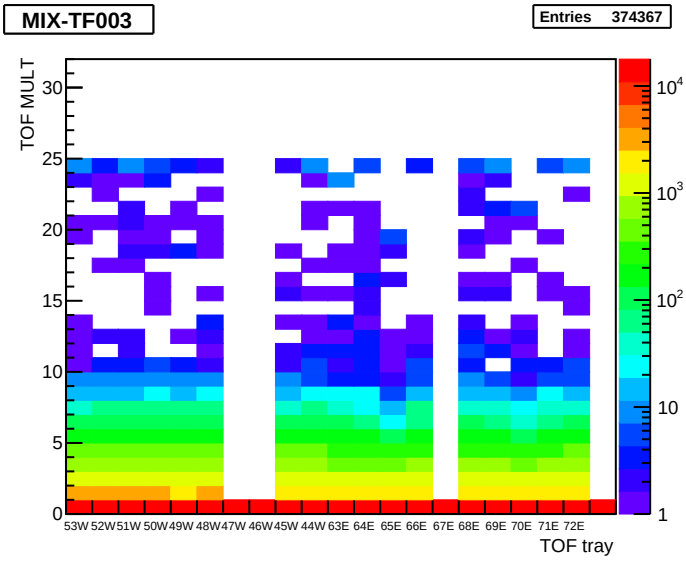

BunchId7Bit (BBC-TAC)
Entries 5561
10^2
10
1
0
20
40
60
80
100
120

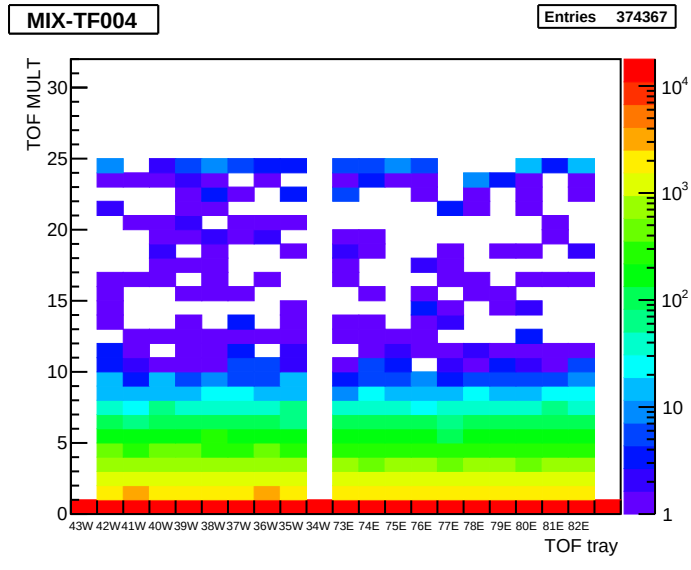

BunchId7Bit (Laser)
Entries 3183
10
0
20
40
60
80
100
120

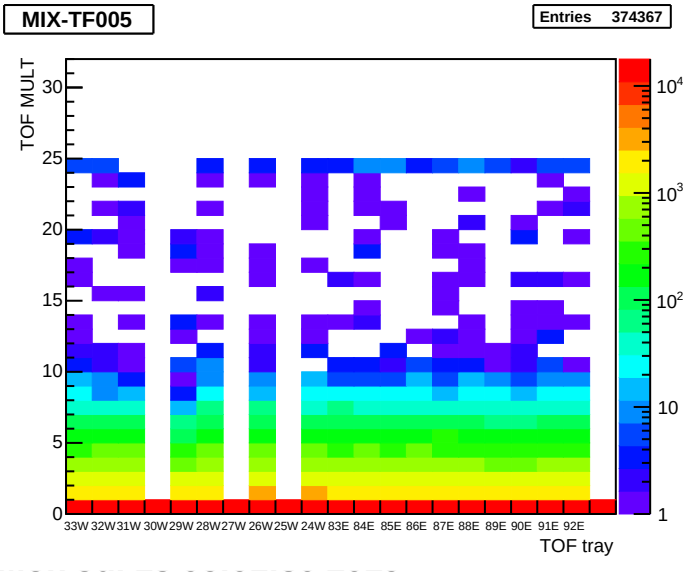

BunchId7Bit (TOFmult window)
Entries 570
10
1
0
20
40
60
80
100
120

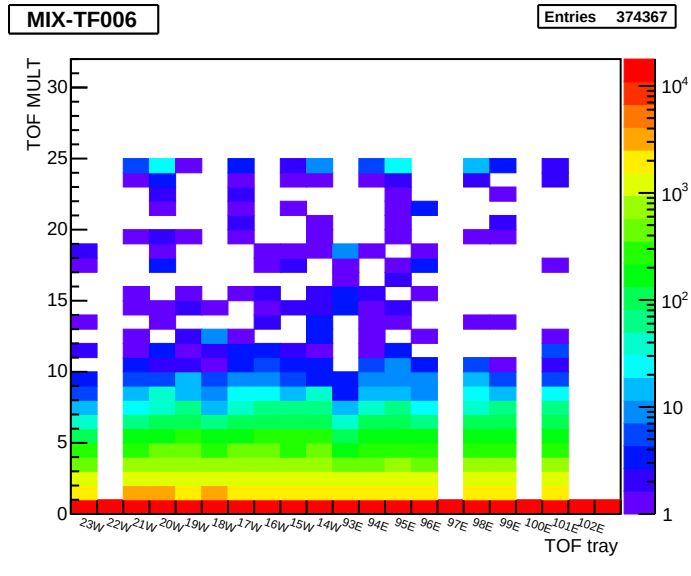

MIX-TF001
Entries 374367
TOF MULT
TOF tray

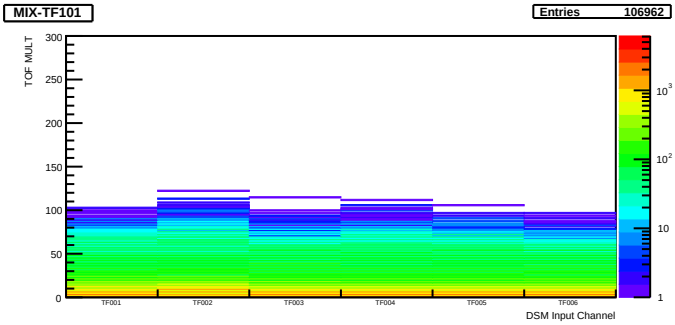

MIX-TF002
Entries 374367
TOF MULT
TOF tray

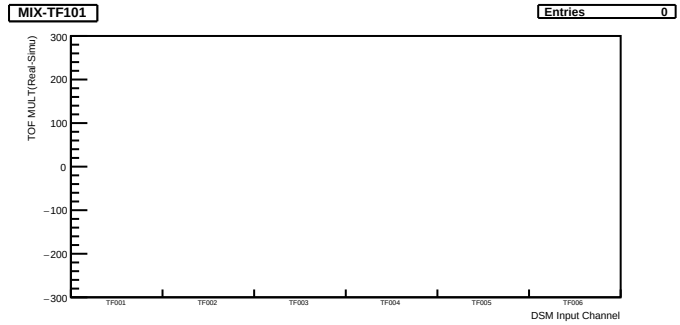

MIX-TF003
Entries 374367
TOF MULT
TOF tray

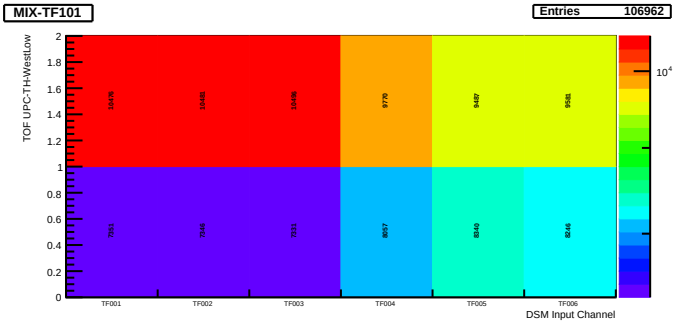

MIX-TF004
Entries 374367
TOF MULT
TOF tray

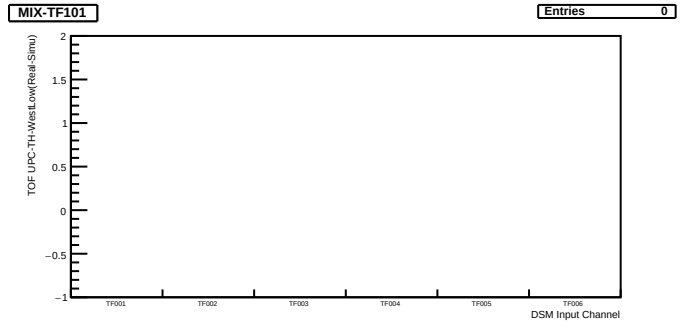

MIX-TF005
Entries 374367
TOF MULT
TOF tray

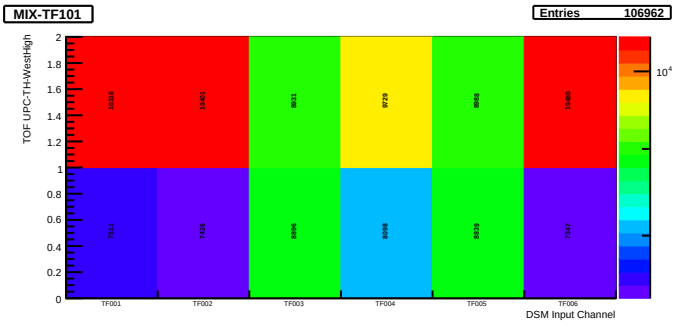

MIX-TF006
Entries 374367
TOF MULT
TOF tray

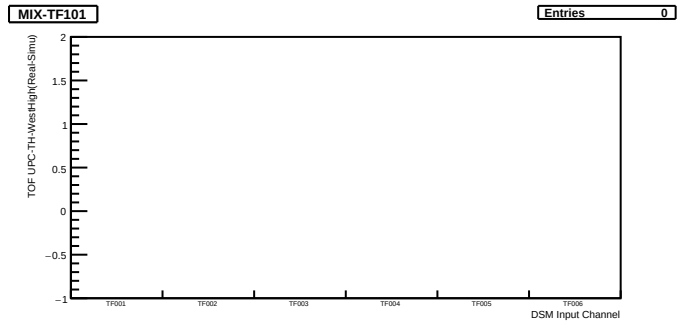

MIX-TF101
Entries 106962
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

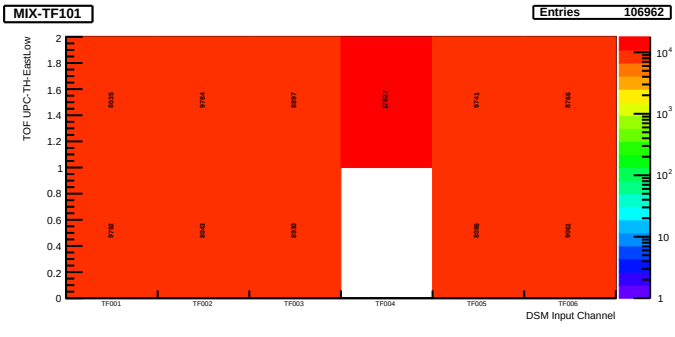

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

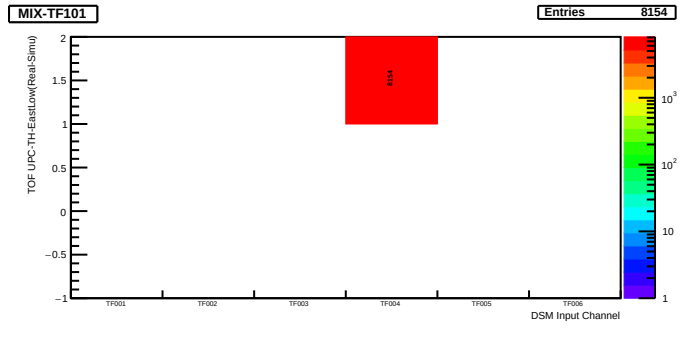

MIX-TF101
Entries 106962
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

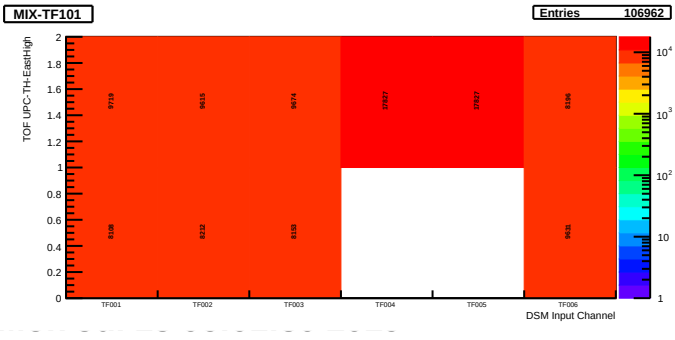

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

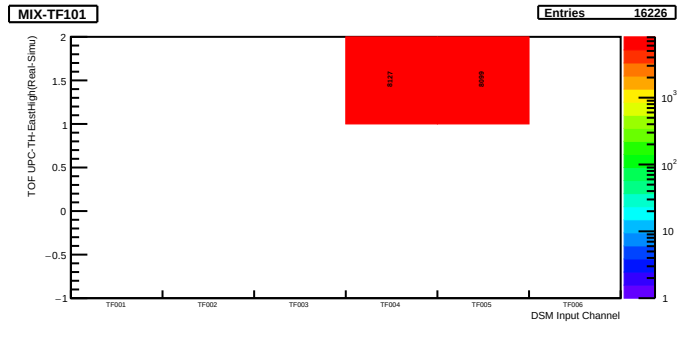

MIX-TF101
Entries 106962
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

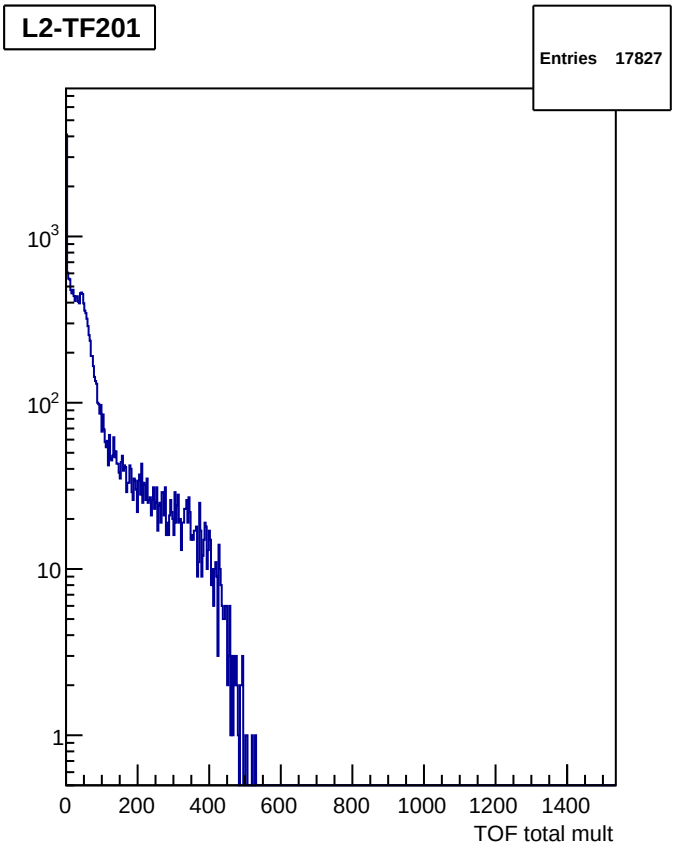

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

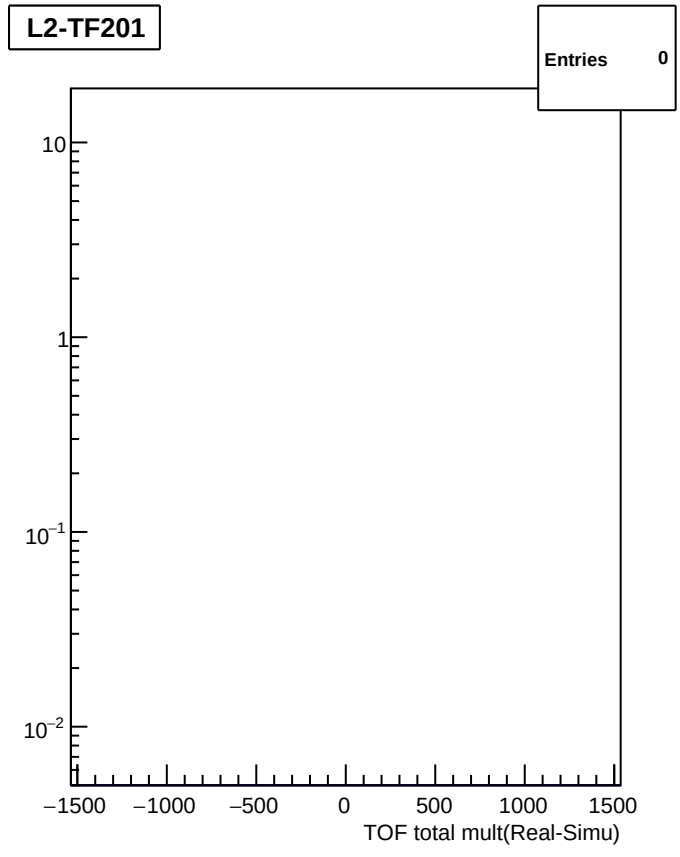

MIX-TF101
Entries 106962
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

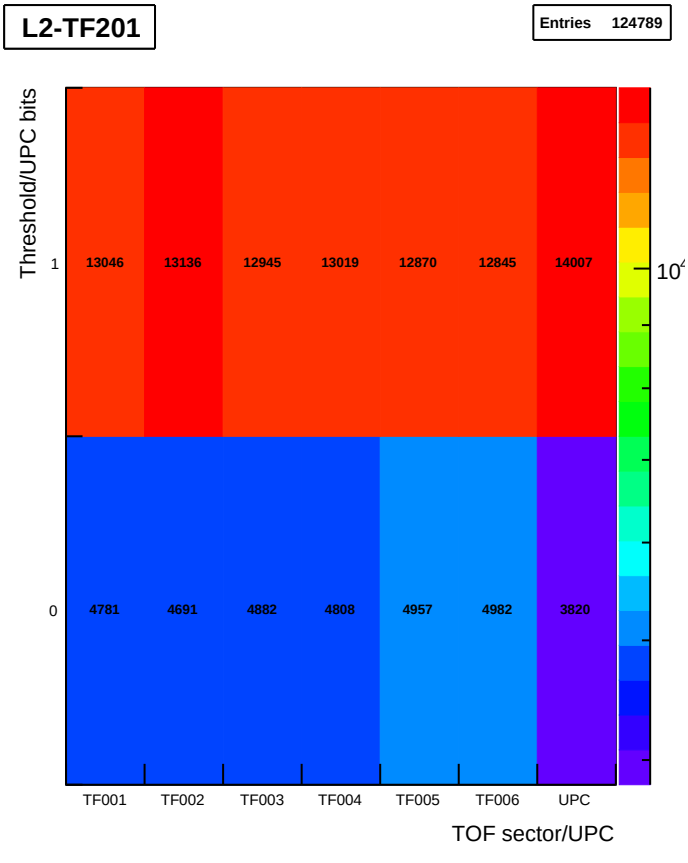

MIX-TF101
Entries 8154
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

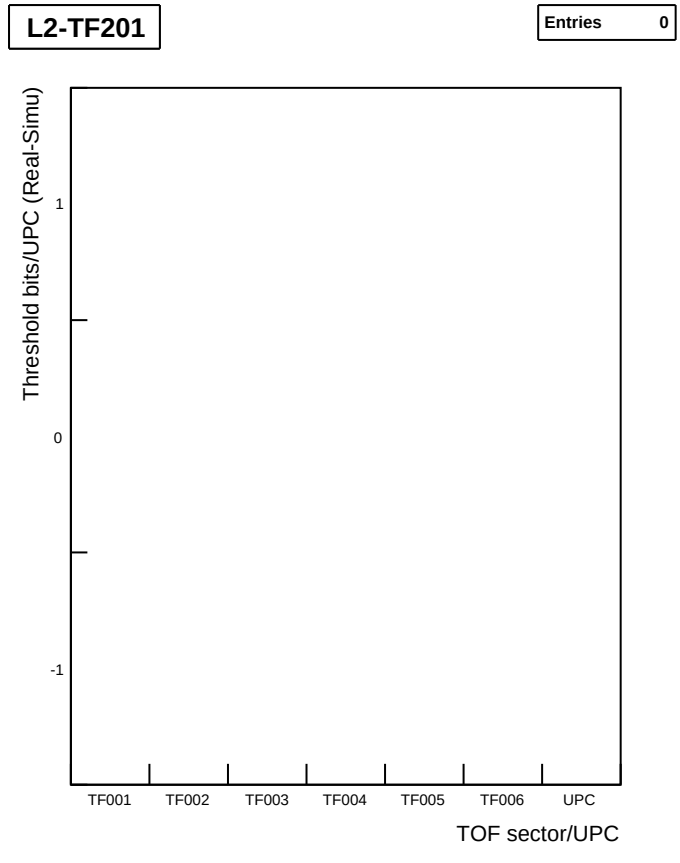

MIX-TF101
Entries 106962
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

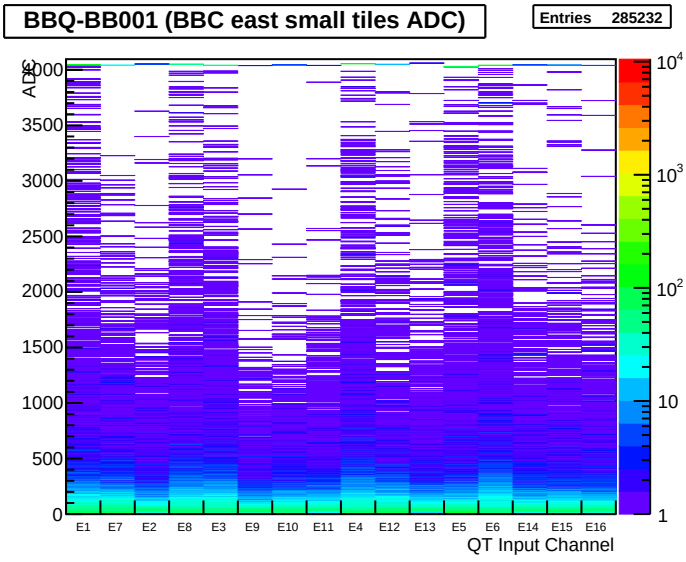

MIX-TF101
Entries 16226
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

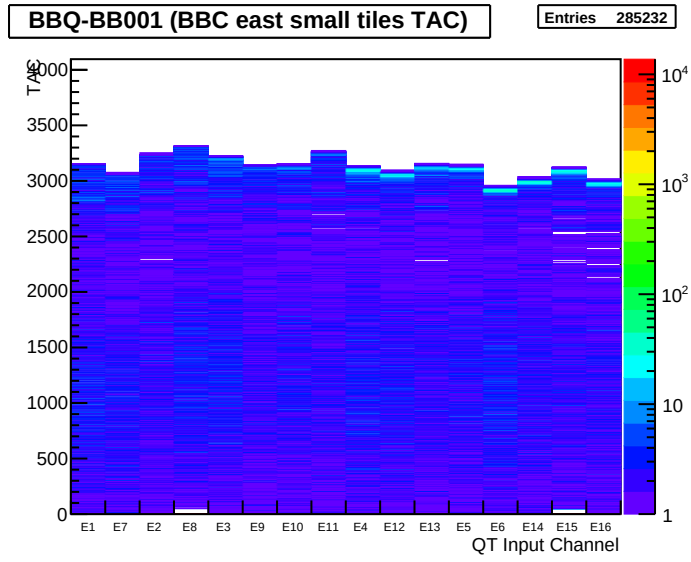

L2-TF201
Entries 17827
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

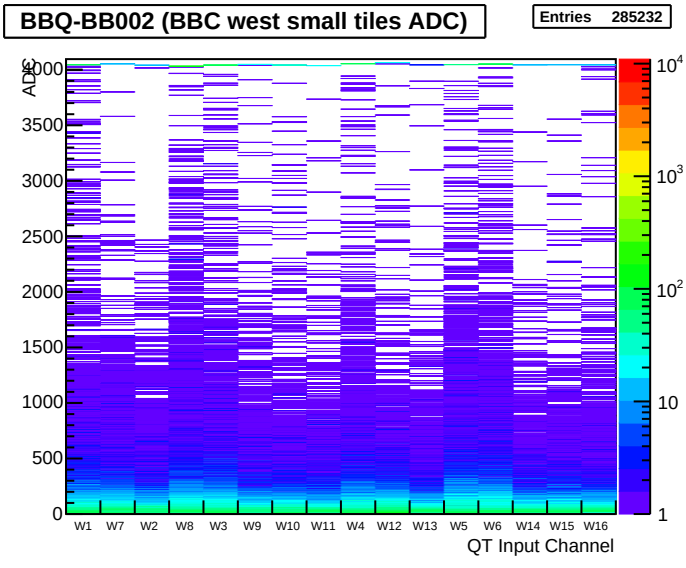

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

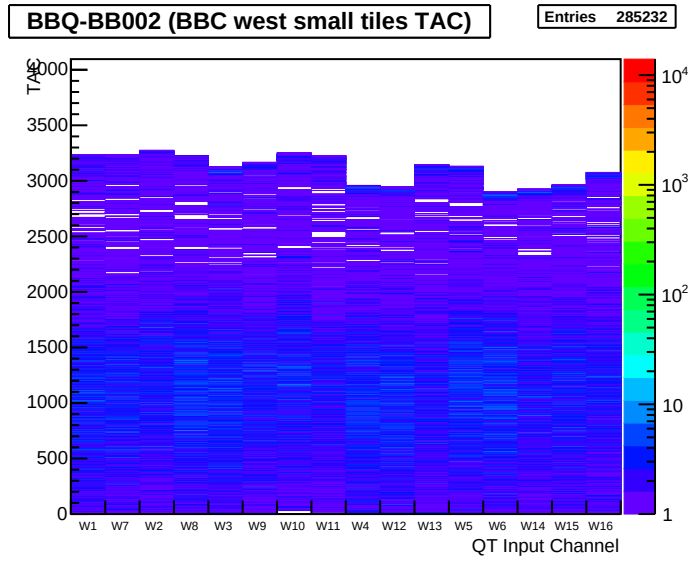

L2-TF201
Entries 124789
Threshold/UPC bits
1
0
13046
13136
12945
13019
12870
12845
14007
4781
4691
4882
4808
4957
4982
3820
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

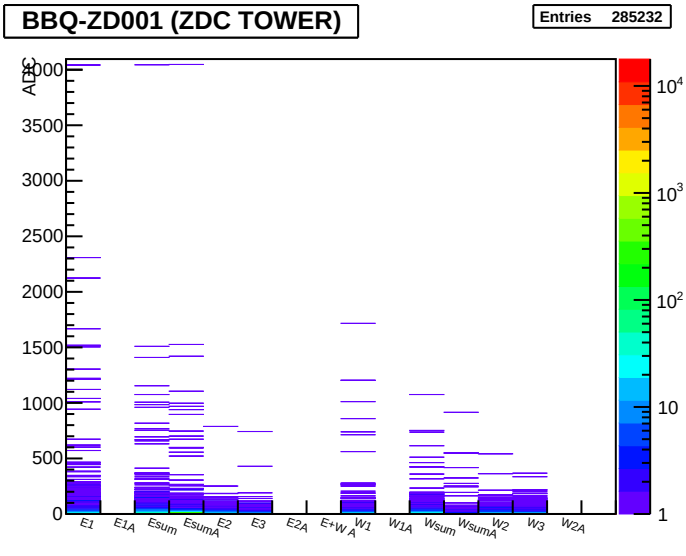

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

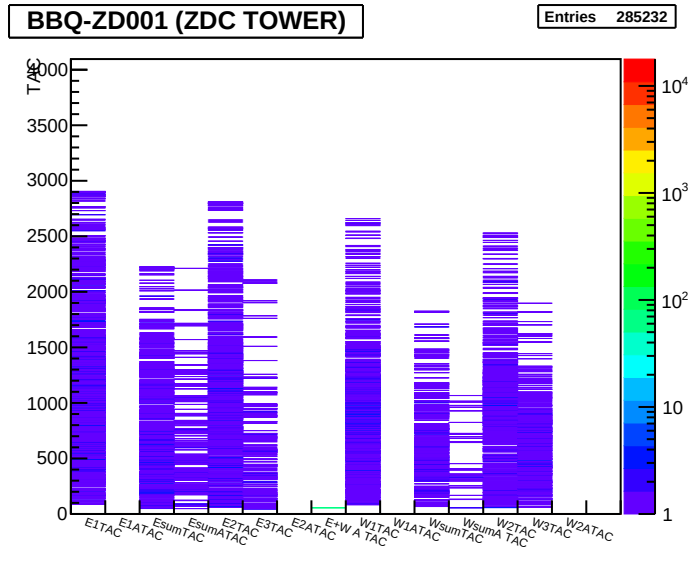

BBQ-BB001 (BBC east small tiles ADC)
Entries 285232
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

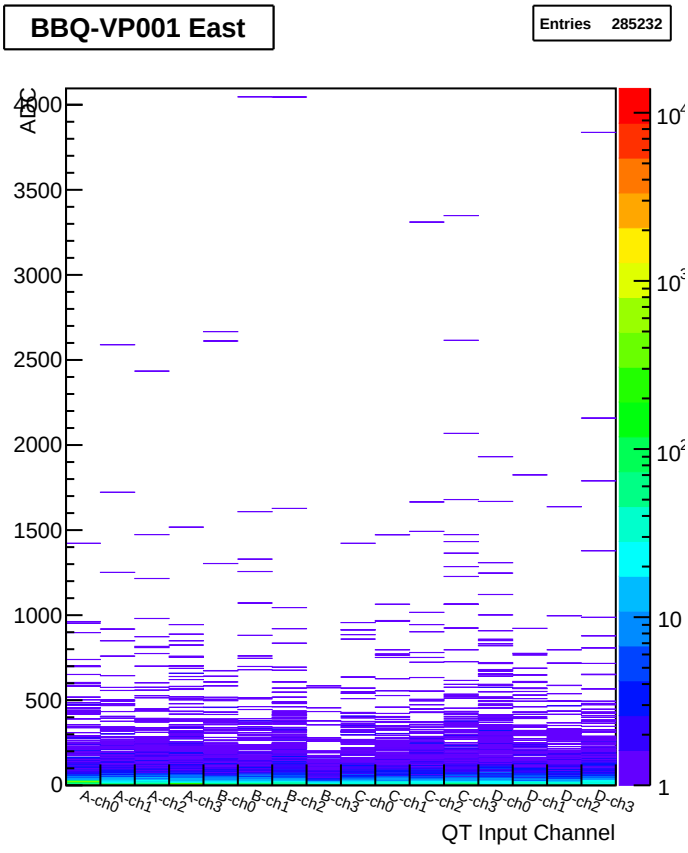

BBQ-BB001 (BBC east small tiles TAC)
Entries 285232
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

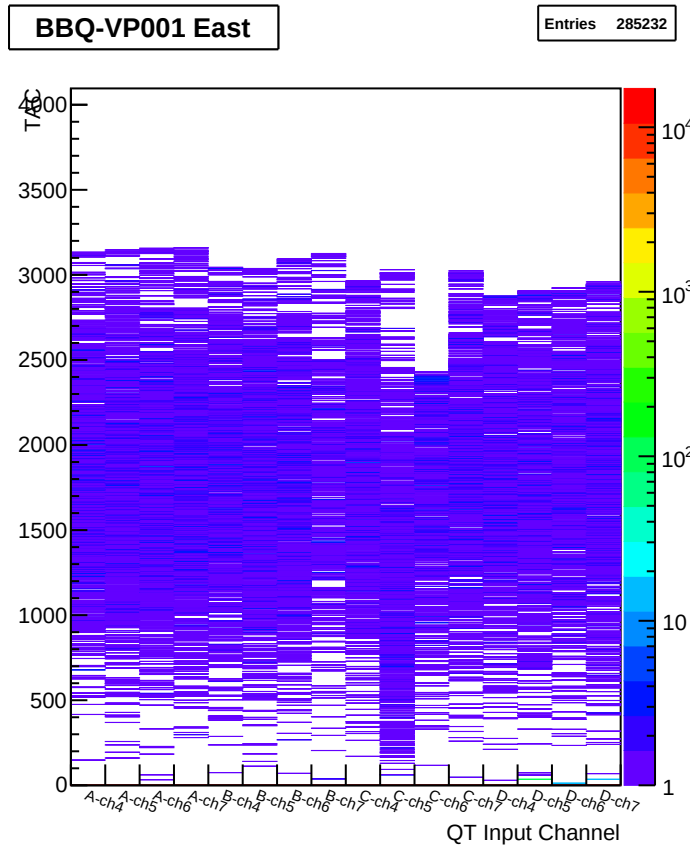

BBQ-BB002 (BBC west small tiles ADC)
Entries 285232
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

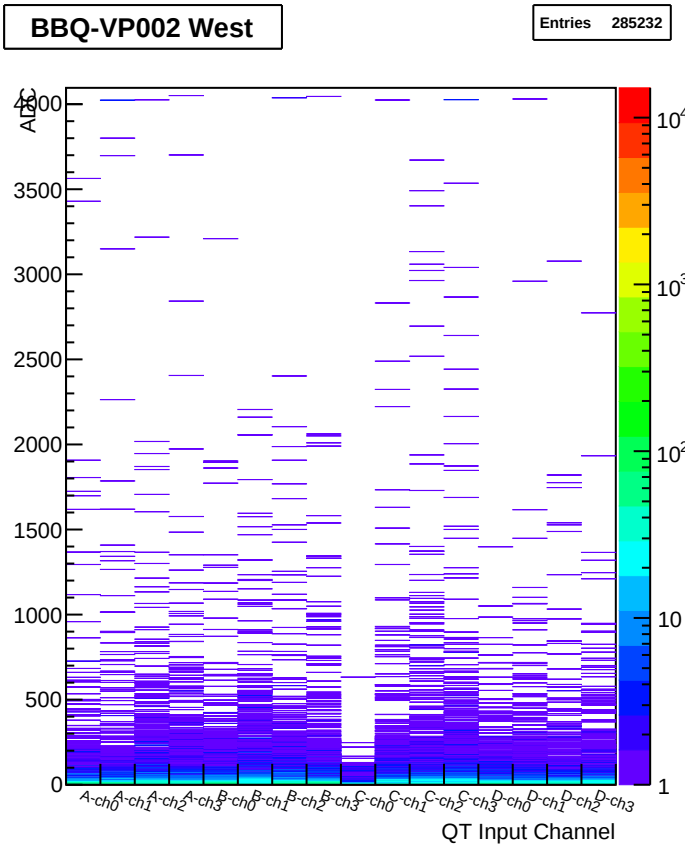

BBQ-BB002 (BBC west small tiles TAC)
Entries 285232
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

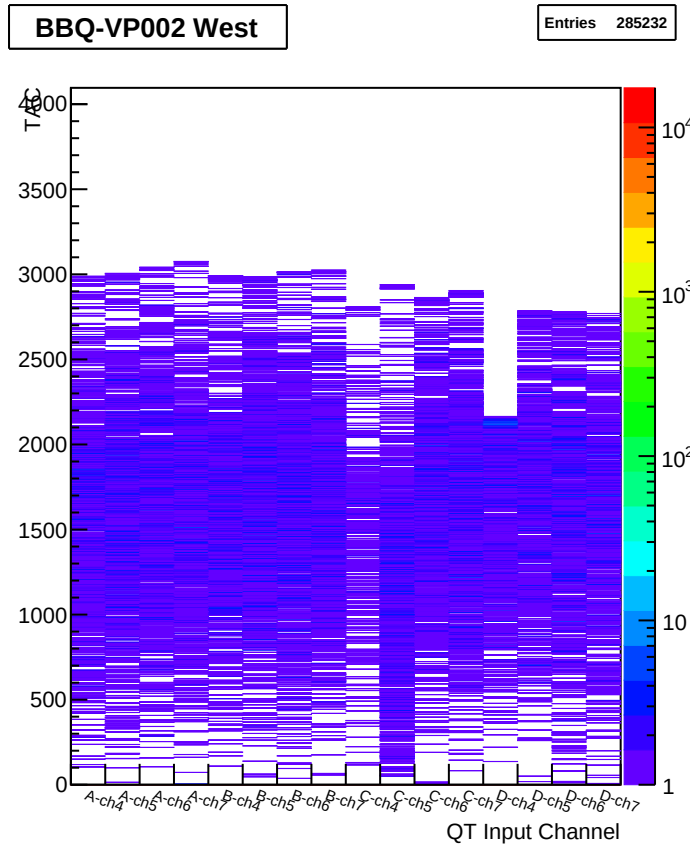

BBQ-ZD001 (ZDC TOWER)
Entries 285232
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

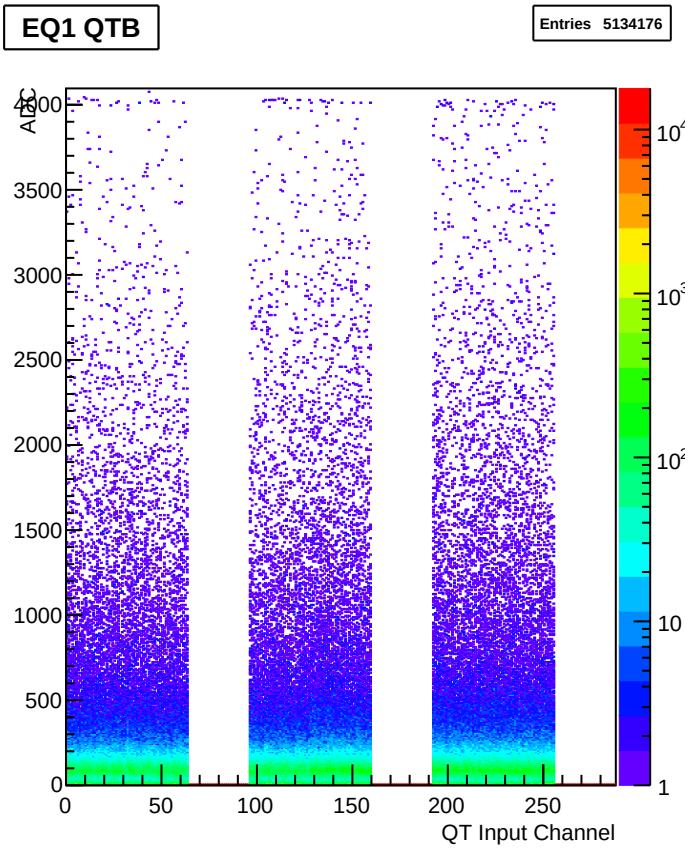

BBQ-ZD001 (ZDC TOWER)
Entries 285232
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

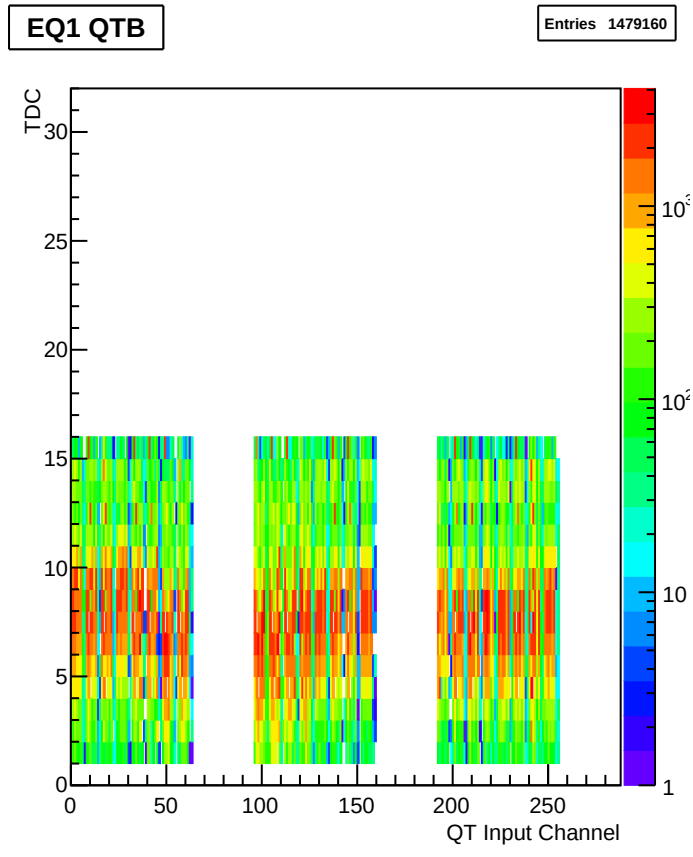

BBQ-VP001 East
Entries 285232
ADC
QT Input Channel

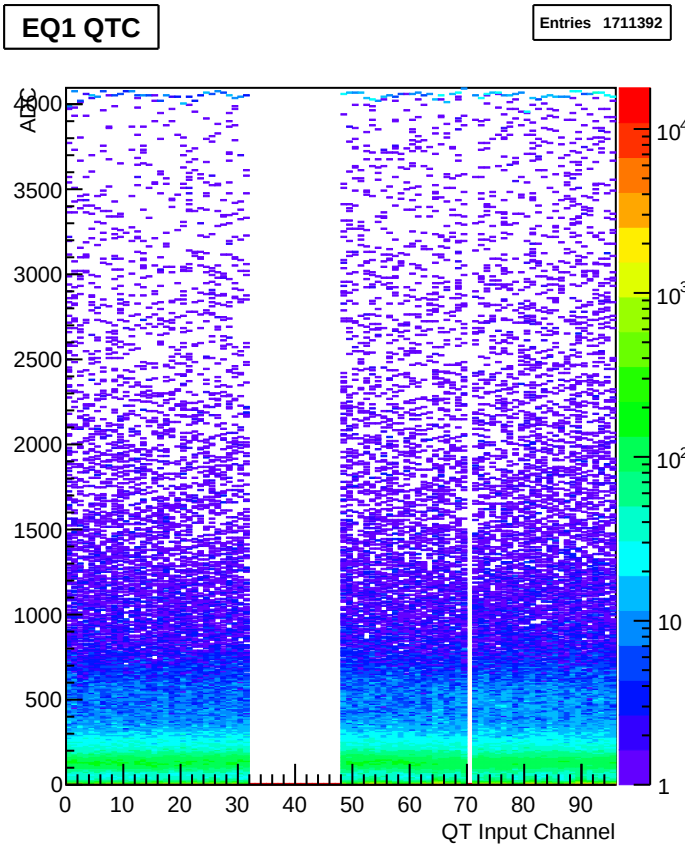

BBQ-VP001 East
Entries 285232
TAC
QT Input Channel

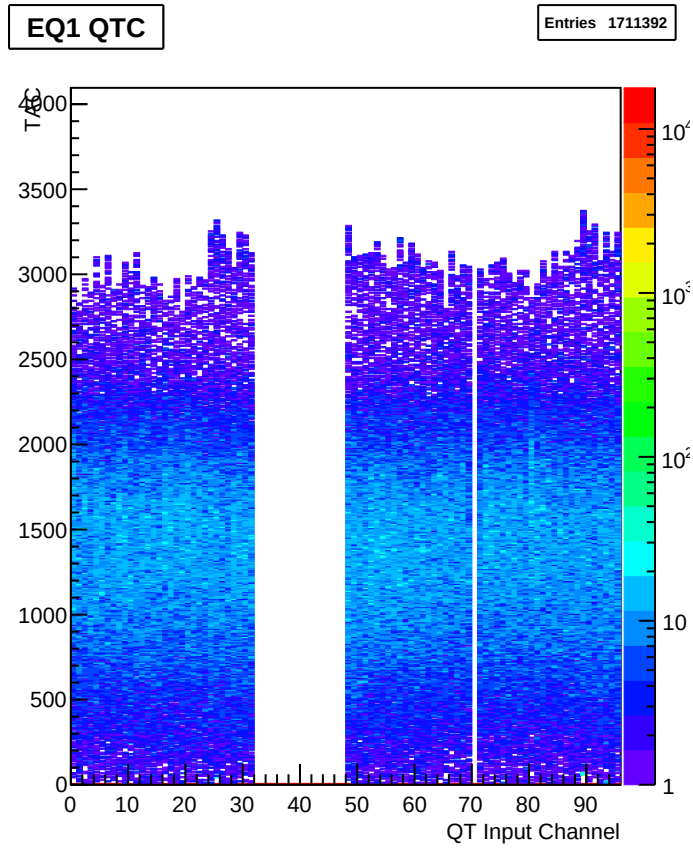

BBQ-VP002 West
Entries 285232
ADC
QT Input Channel

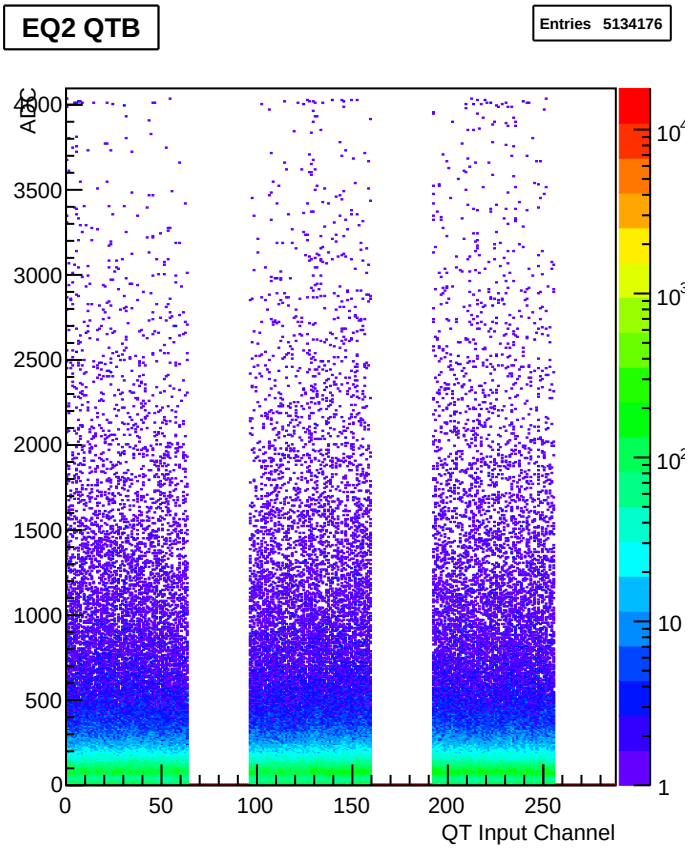

BBQ-VP002 West
Entries 285232
TAC
QT Input Channel

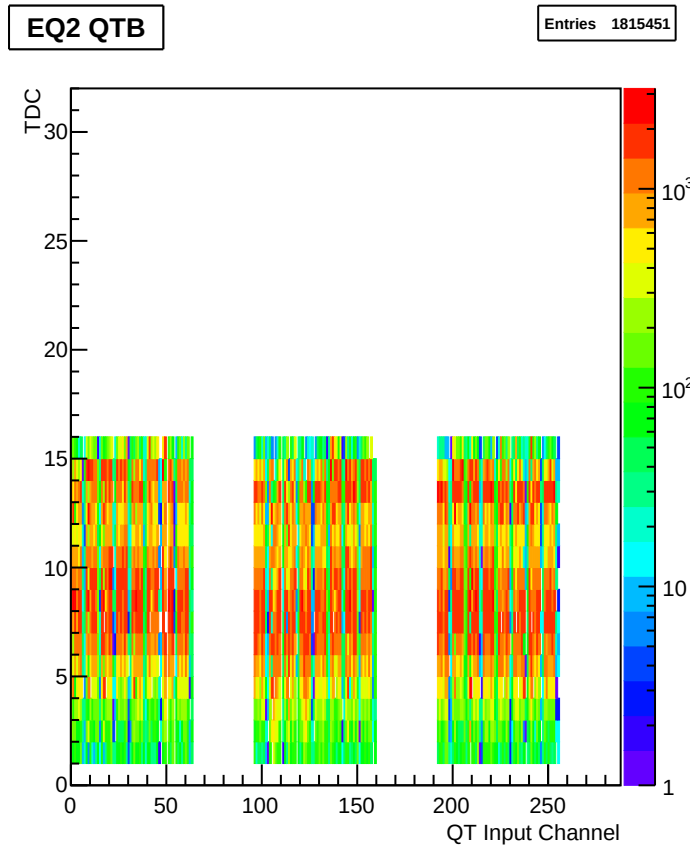

EQ1 QTB
Entries 5134176
ADC
QT Input Channel

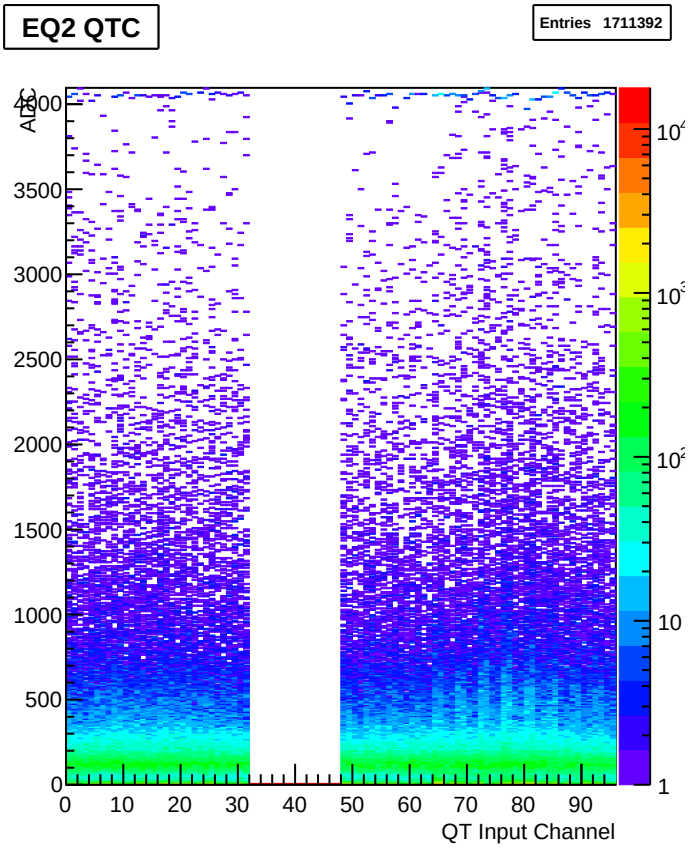

EQ1 QTB
Entries 1479160
TDC
QT Input Channel

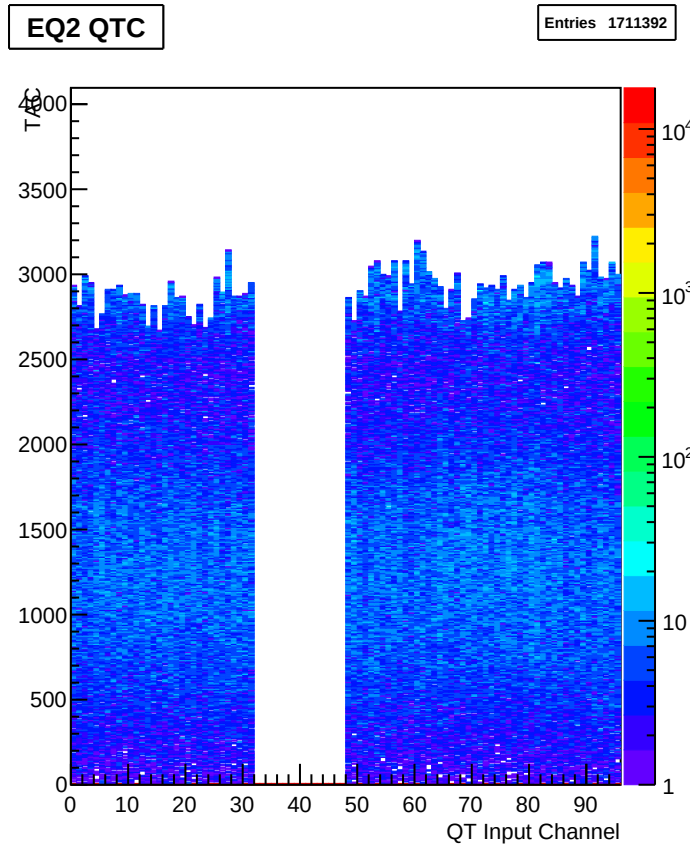

EQ1 QTC
Entries 1711392
ADC
QT Input Channel

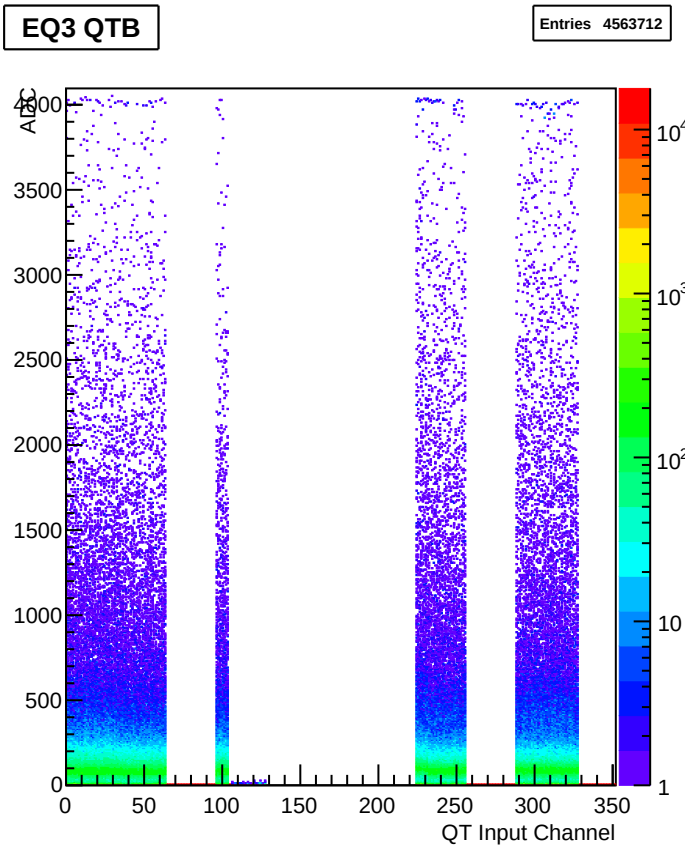

EQ1 QTC
Entries 1711392
TADC
QT Input Channel

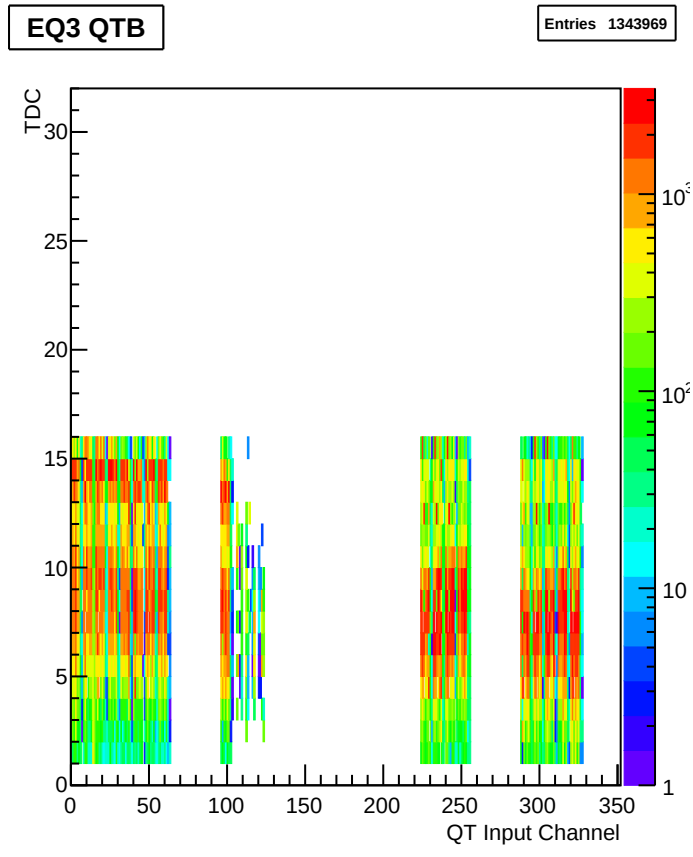

EQ2 QTB
Entries 5134176
ADC
QT Input Channel

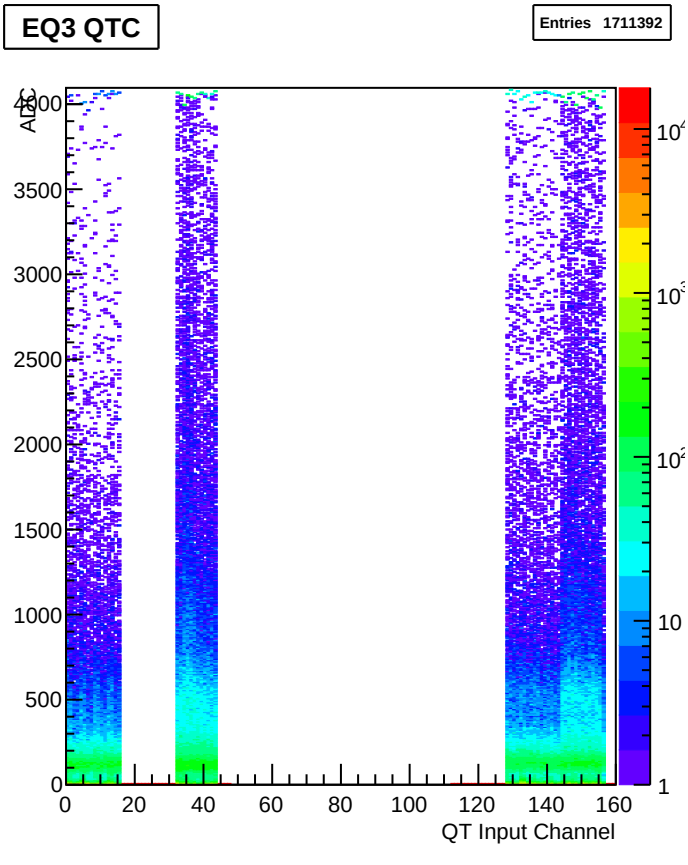

EQ2 QTB
Entries 1815451
TDC
QT Input Channel

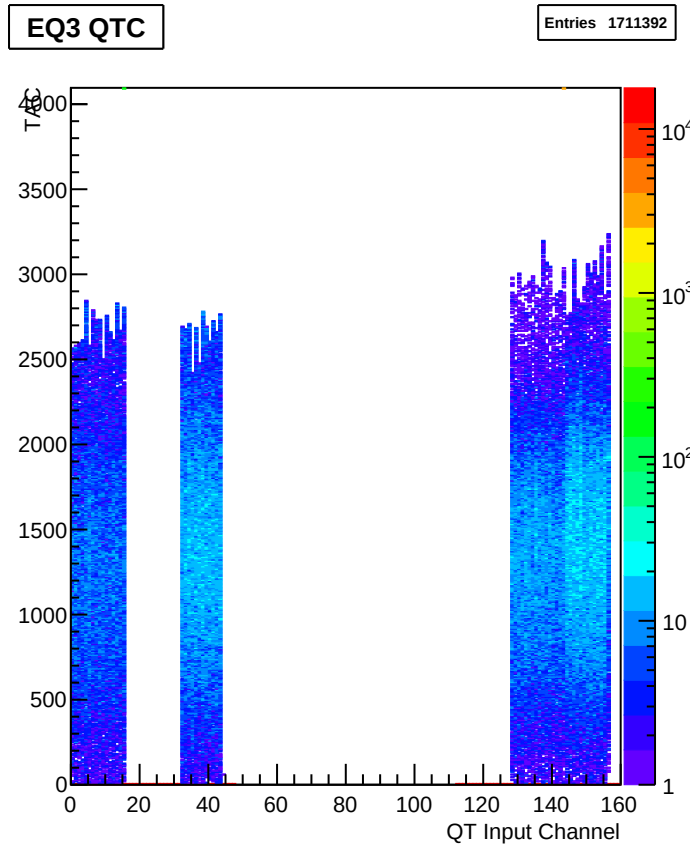

EQ2 QTC
Entries 1711392
ADC
QT Input Channel

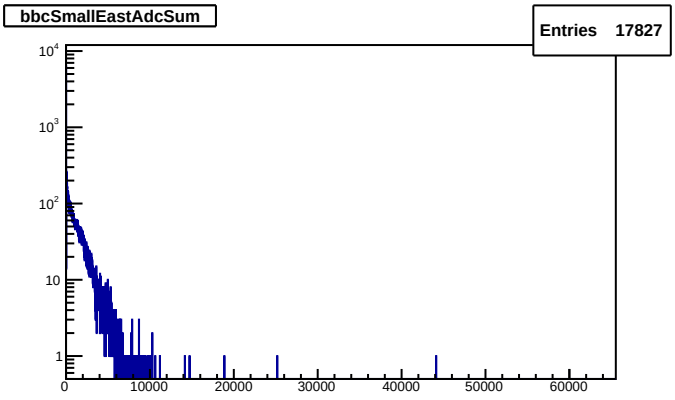

EQ2 QTC
Entries 1711392
TADC
QT Input Channel

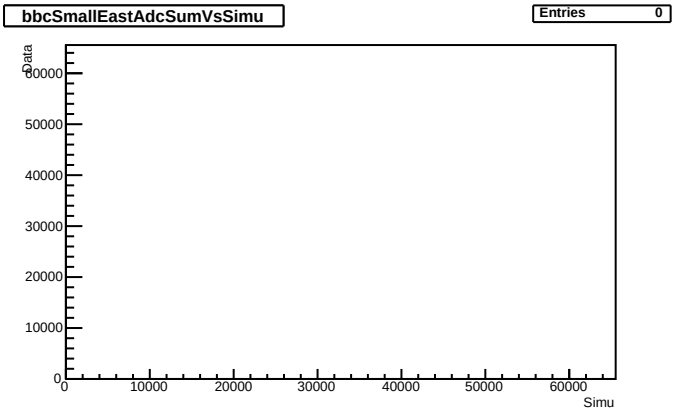

EQ3 QTB
Entries 4563712
ADC
QT Input Channel

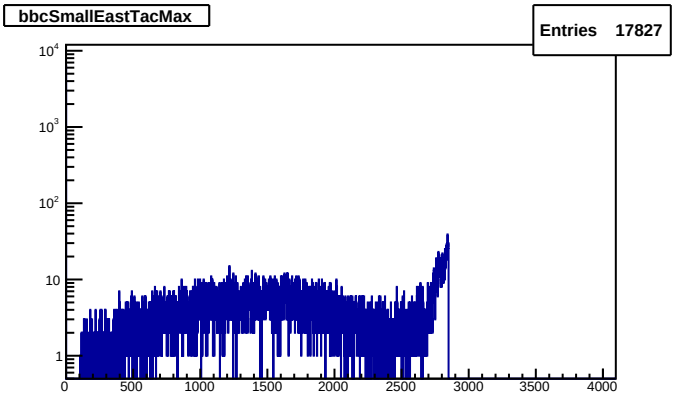

EQ3 QTB
Entries 1343969
TDC
QT Input Channel

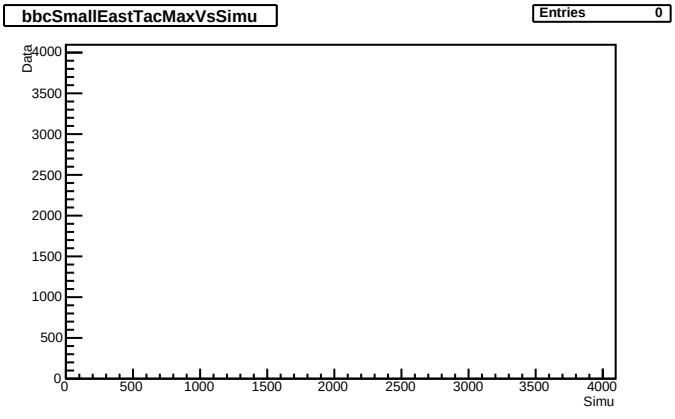

EQ3 QTC
Entries 1711392
ADC
QT Input Channel

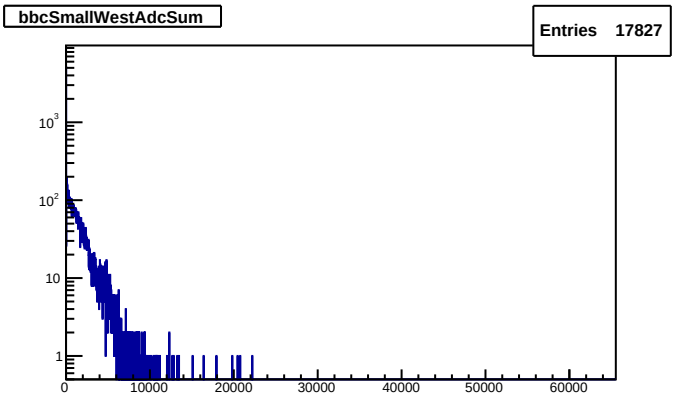

EQ3 QTC
Entries 1711392
TADC
QT Input Channel

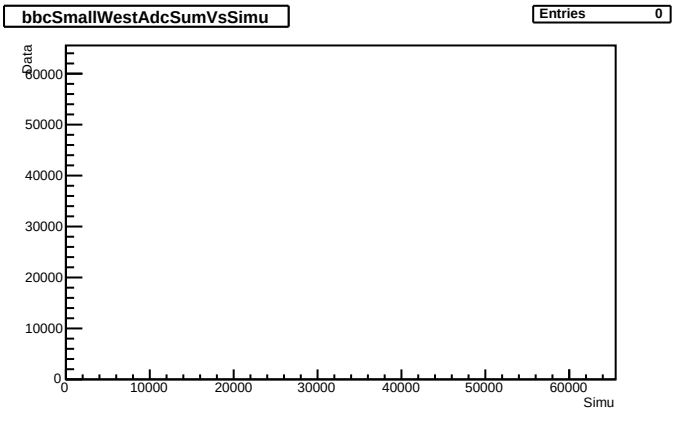

bbcSmallEastAdcSum
Entries 17827

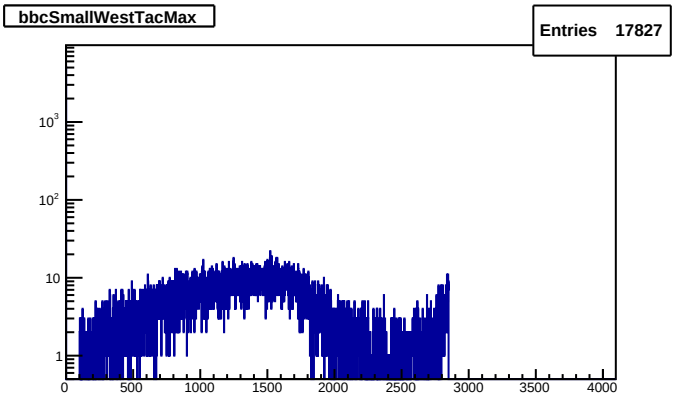

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

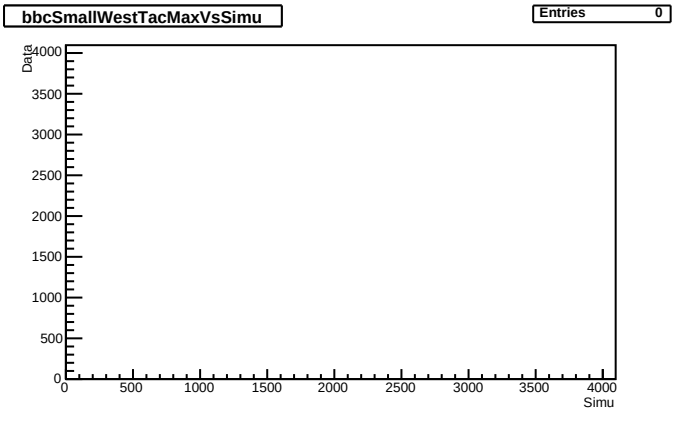

bbcSmallEastTacMax
Entries 17827

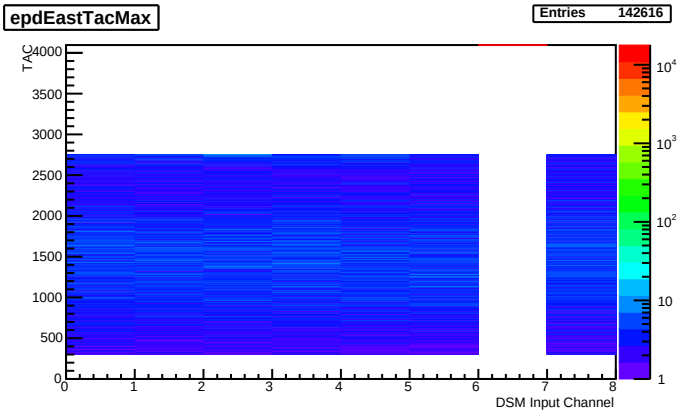

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

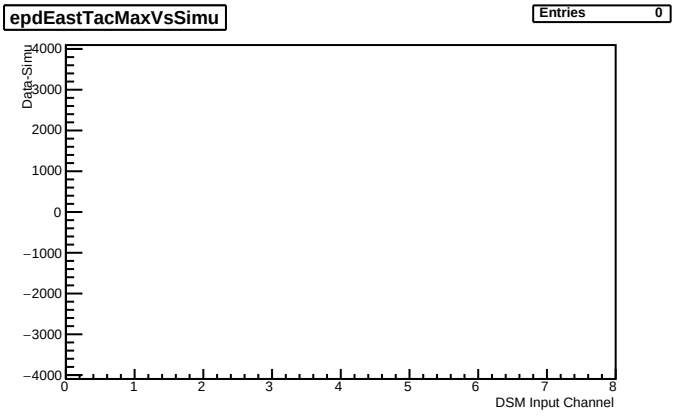

bbcSmallWestAdcSum
Entries 17827

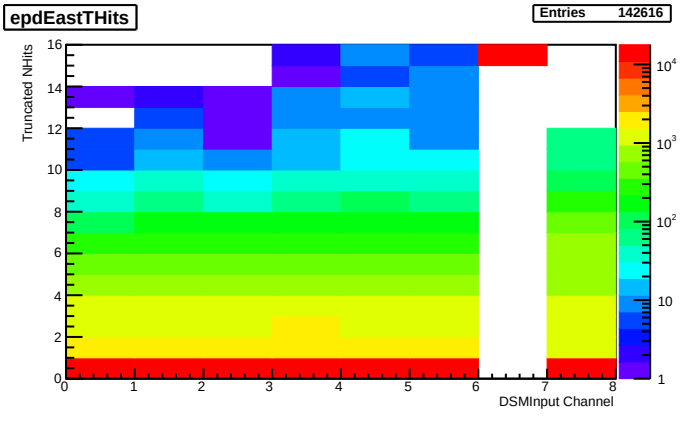

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

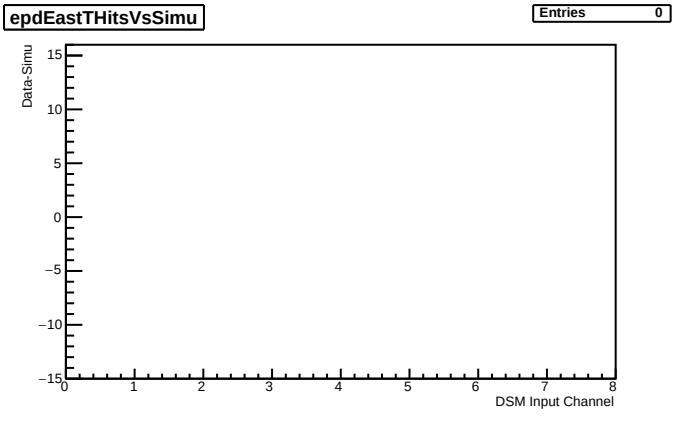

bbcSmallWestTacMax
Entries 17827

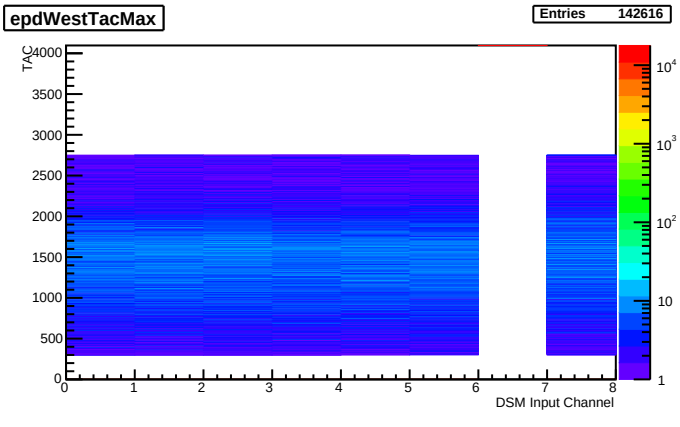

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

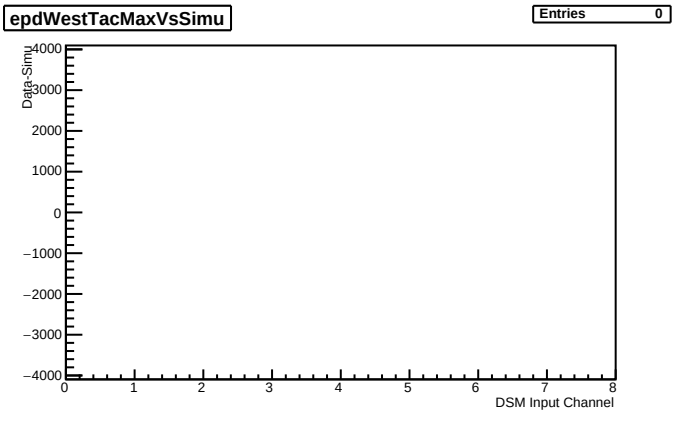

epdEastTacMax
Entries 142616
TAC
DSM Input Channel

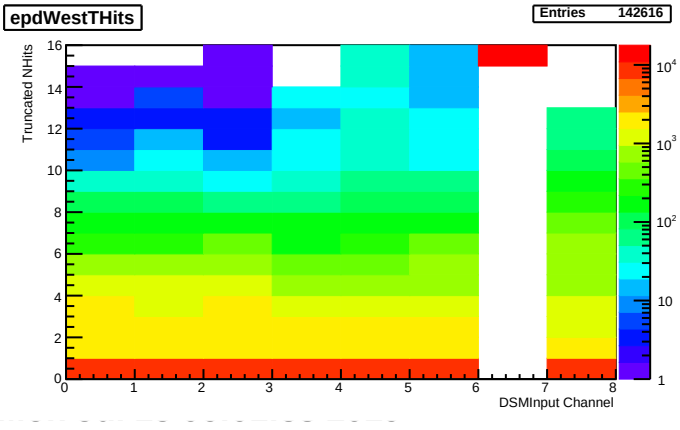

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

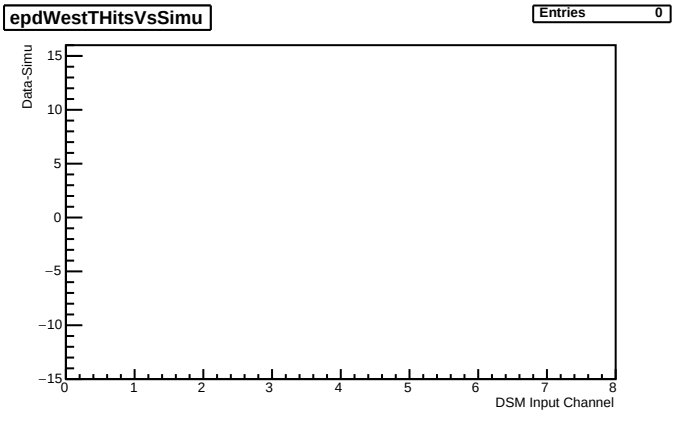

epdEastTHits
Entries 142616
Truncated NHits
DSMInput Channel

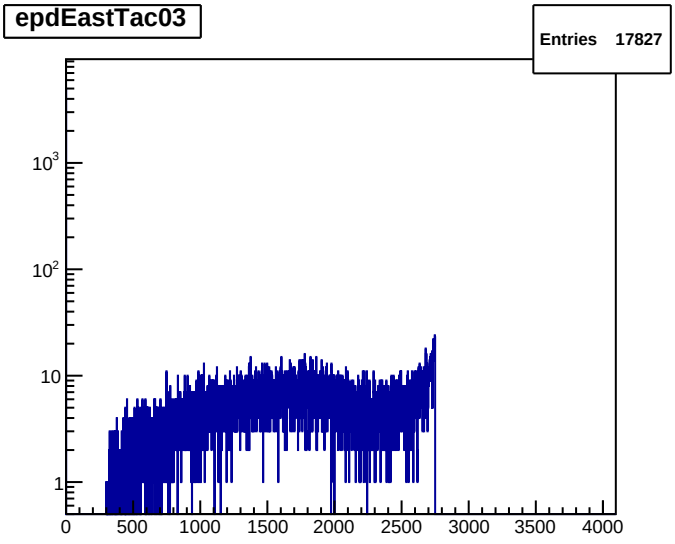

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

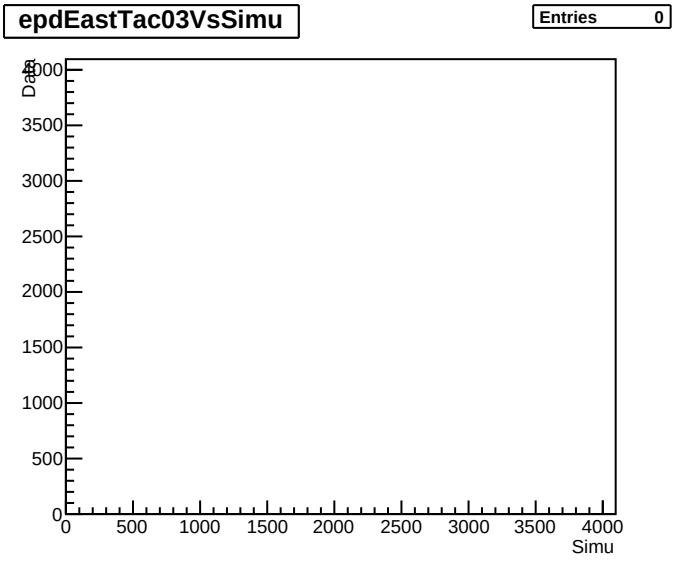

epdWestTacMax
Entries 142616
TAC
DSM Input Channel

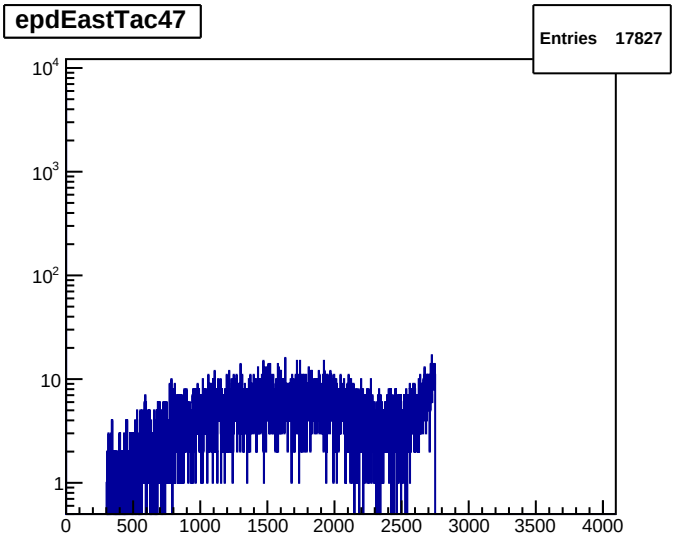

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

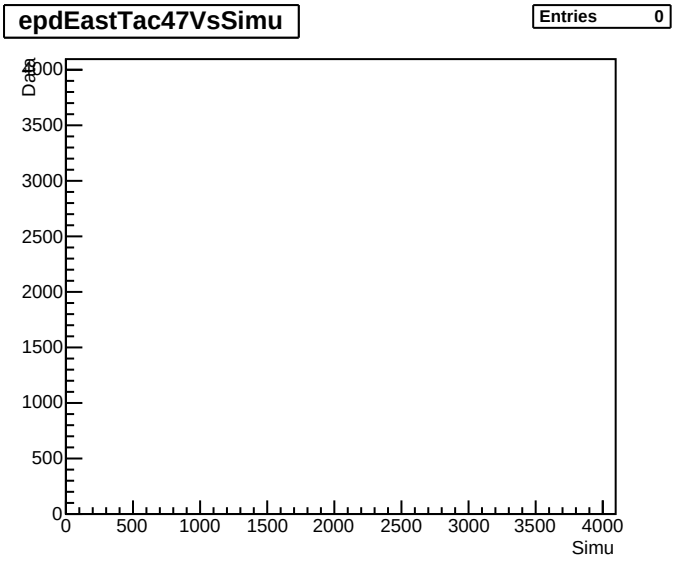

epdWestTHits
Entries 142616
Truncated NHits
DSMInput Channel

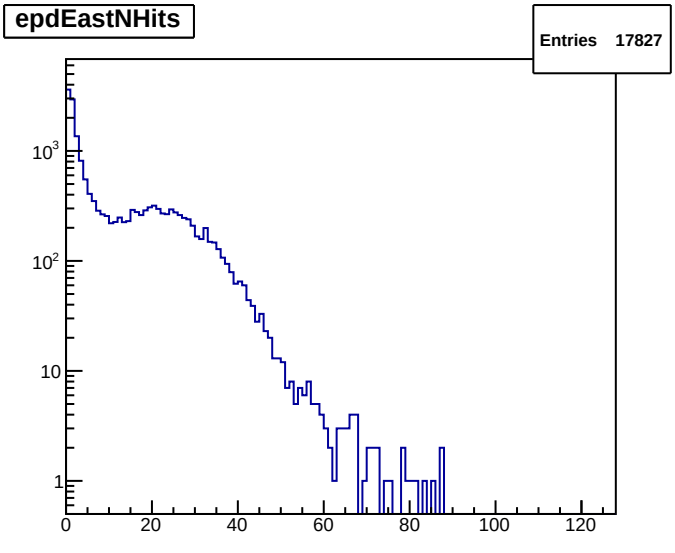

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

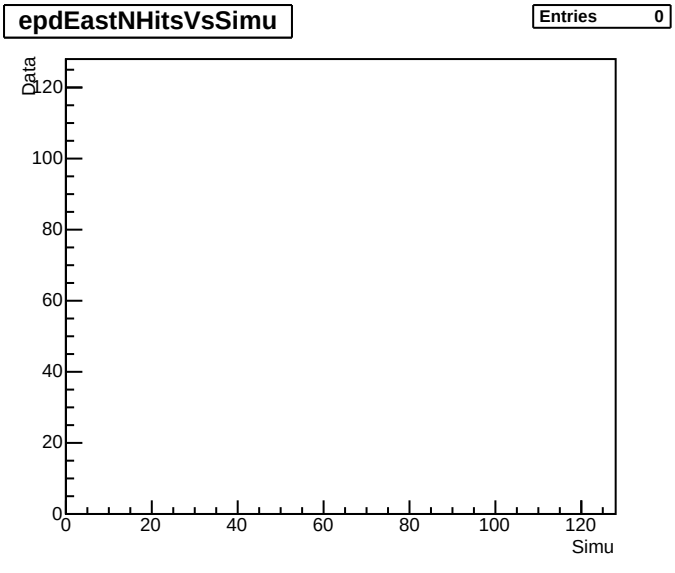

epdEastTac03
Entries 17827

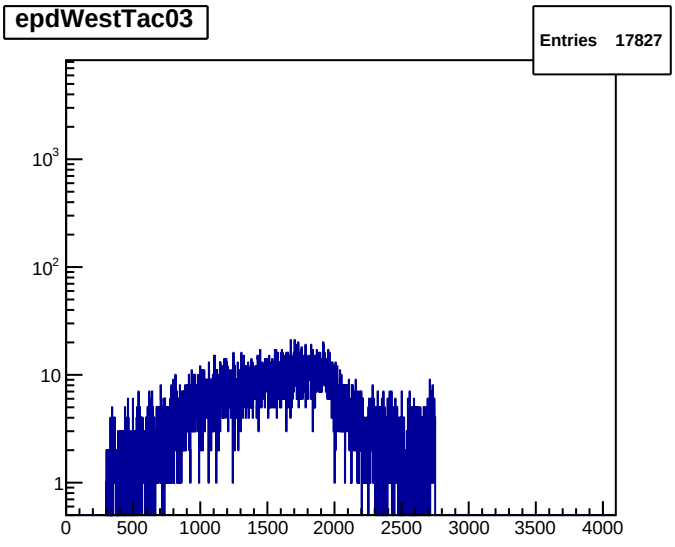

epdEastTac03VsSimu
Entries 0
Data
Simu

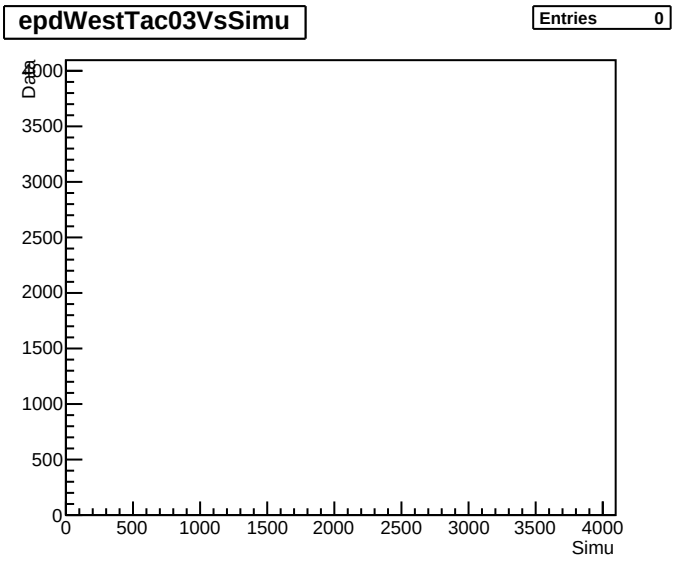

epdEastTac47
Entries 17827

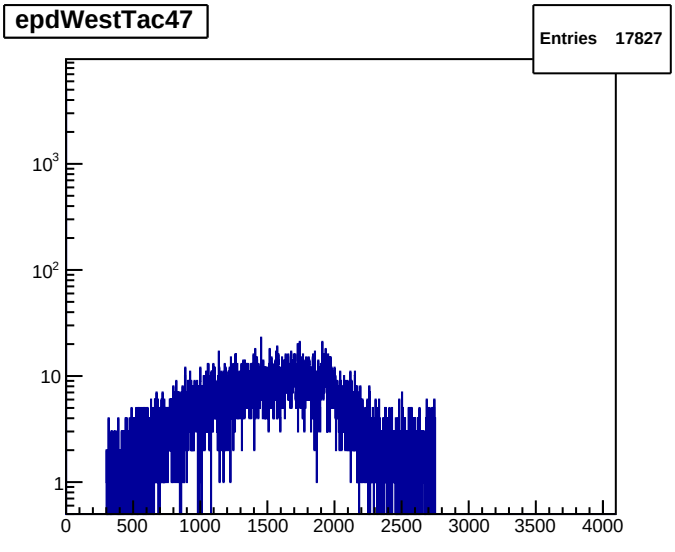

epdEastTac47VsSimu
Entries 0
Data
Simu

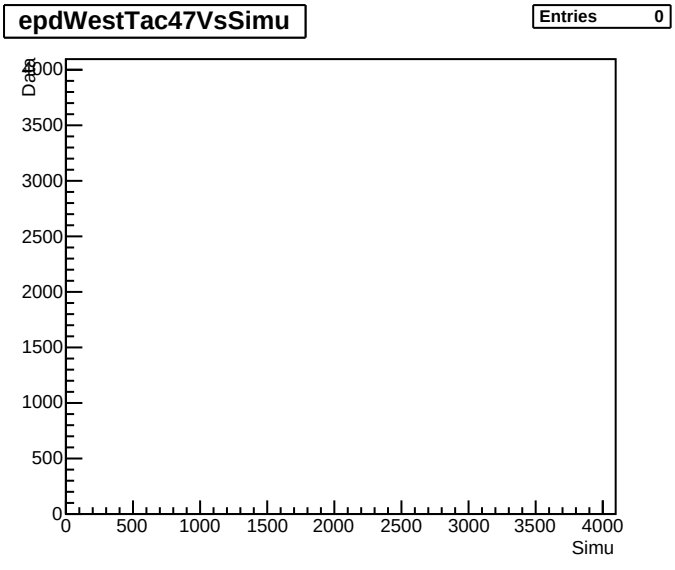

epdEastNHits
Entries 17827


epdEastNHitsVsSimu
Entries 0
Data
Simu


epdWestTac03
Entries 17827


epdWestTac03VsSimu
Entries 0
Data
Simu


epdWestTac47
Entries 17827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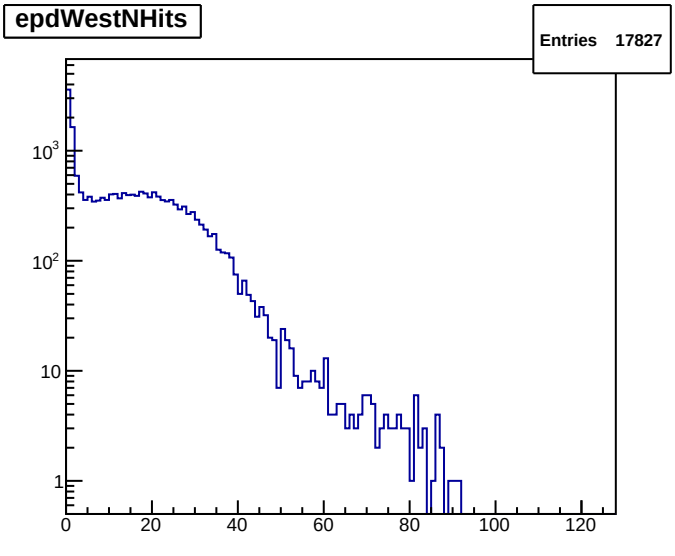
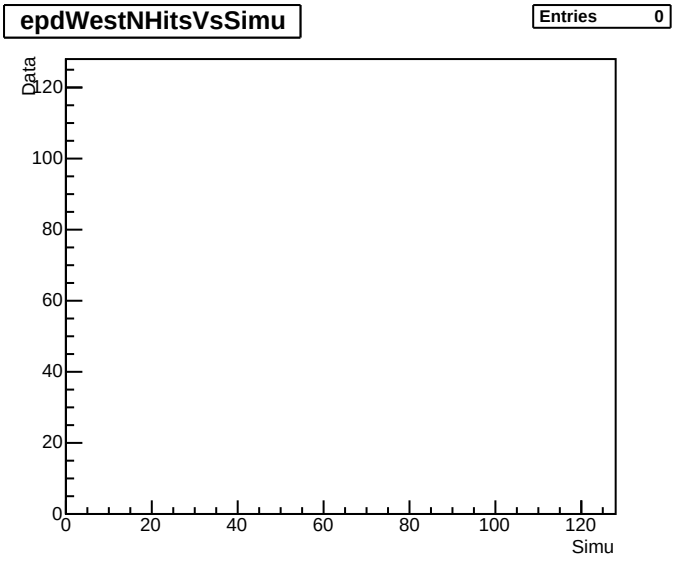
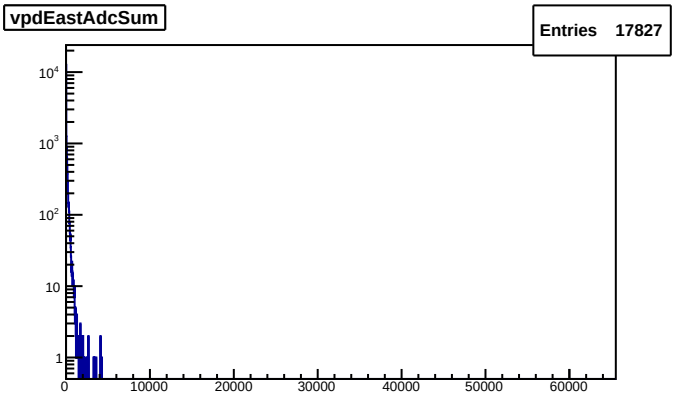
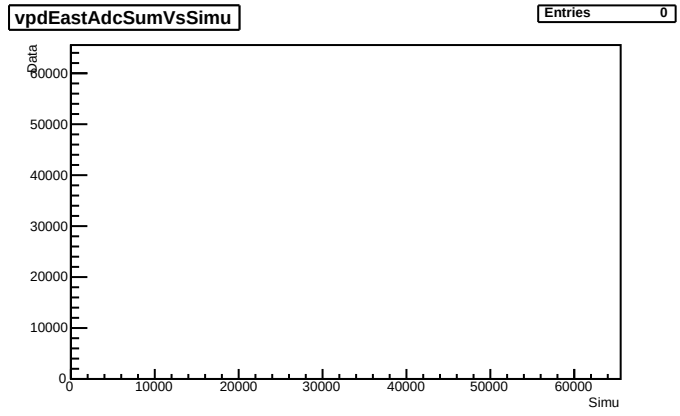
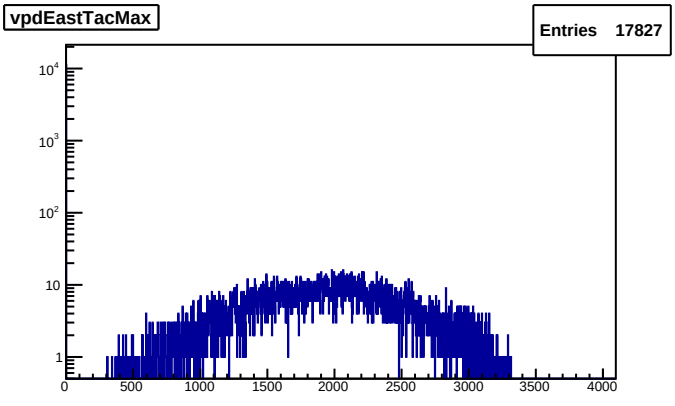
Entries 0
Data
Simu

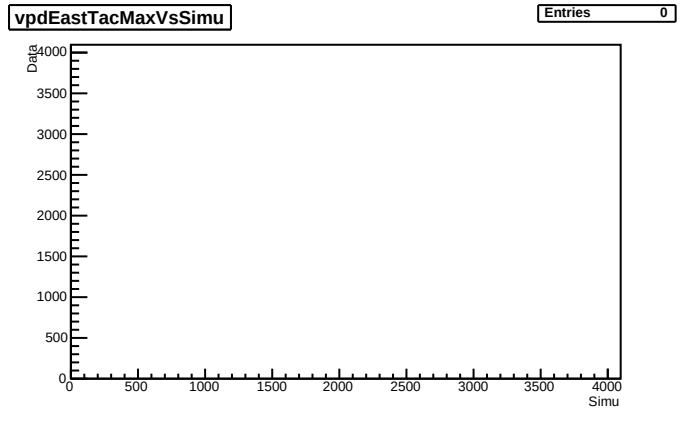

epdWestNHits
Entries 17827

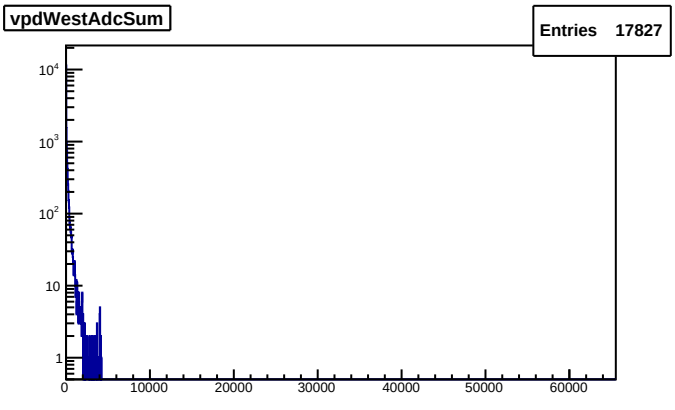

epdWestNHitsVsSimu
Entries 0
Data
Simu

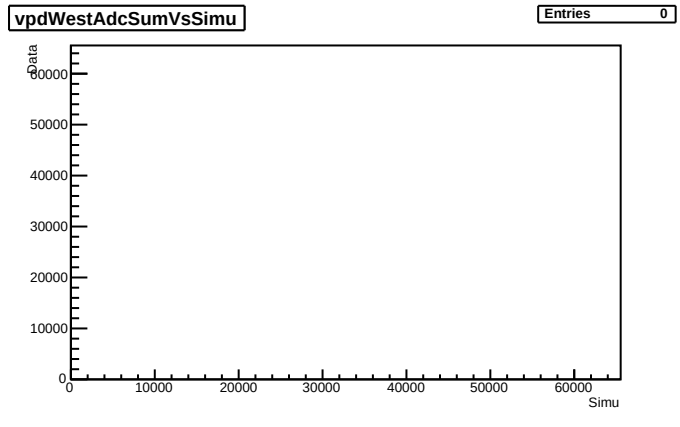

vpdEastAdcSum
Entries 17827

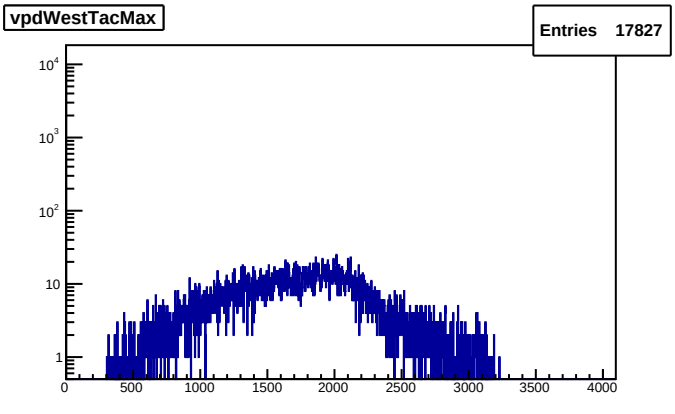

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

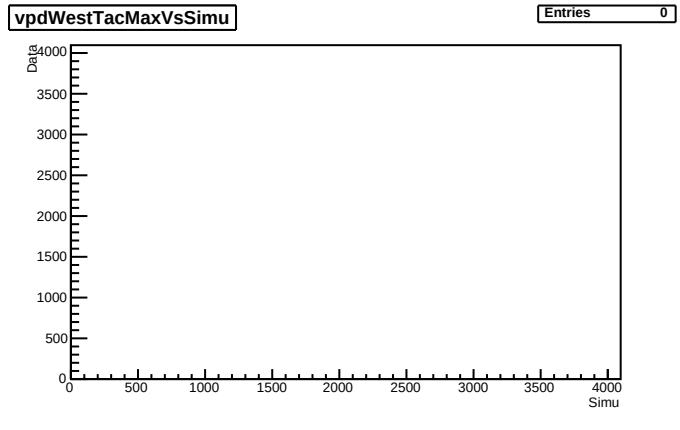

vpdEastTacMax
Entries 17827

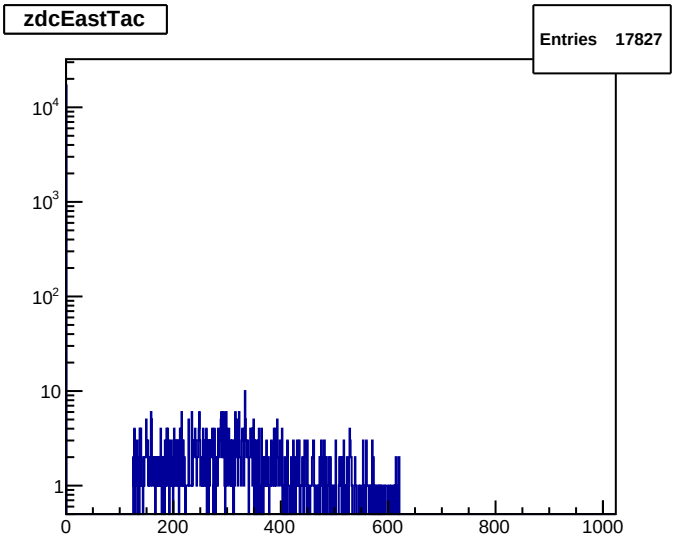

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

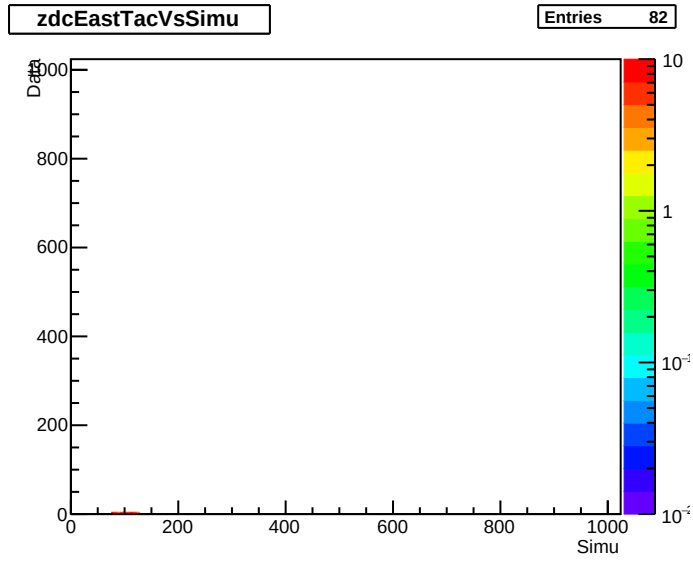

vpdWestAdcSum
Entries 17827

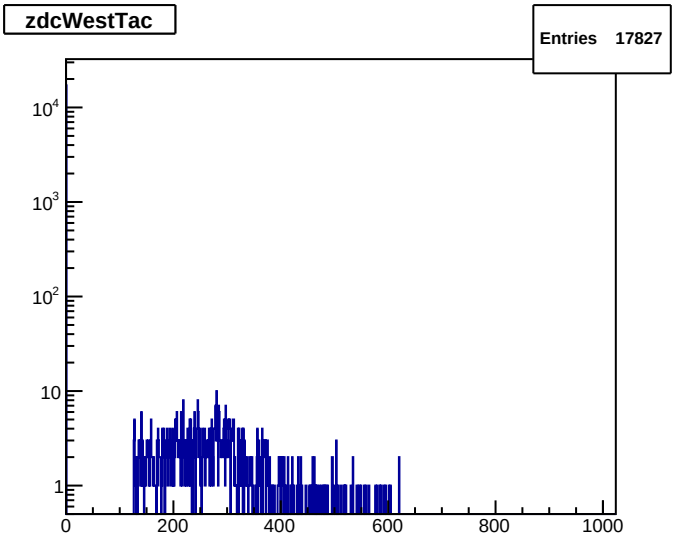

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

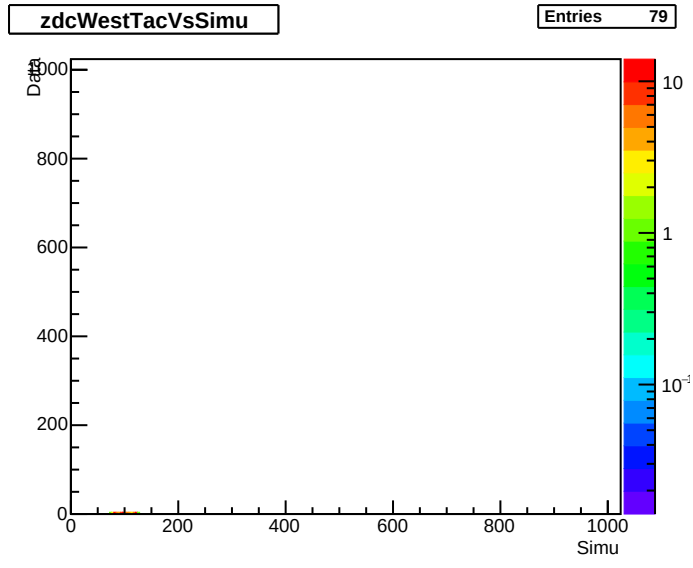

vpdWestTacMax
Entries 17827

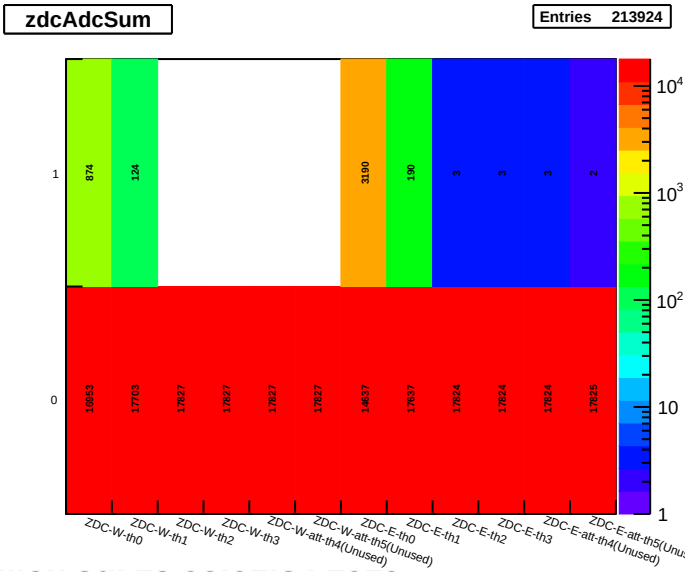

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

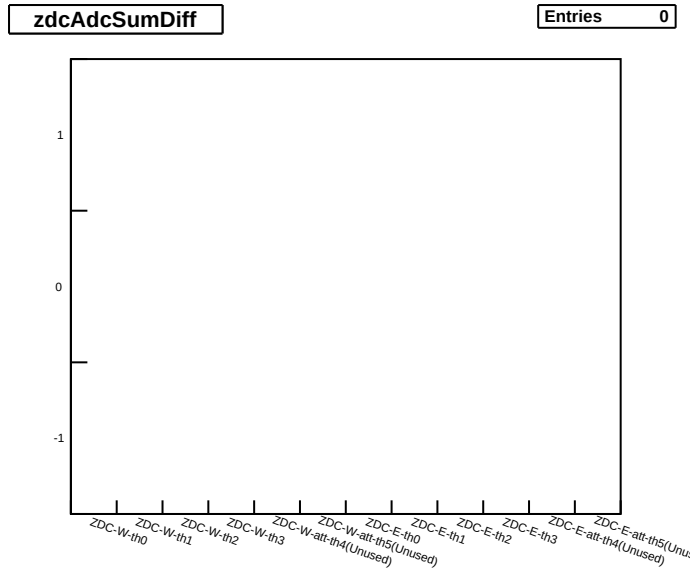

zdcEastTac
Entries 17827

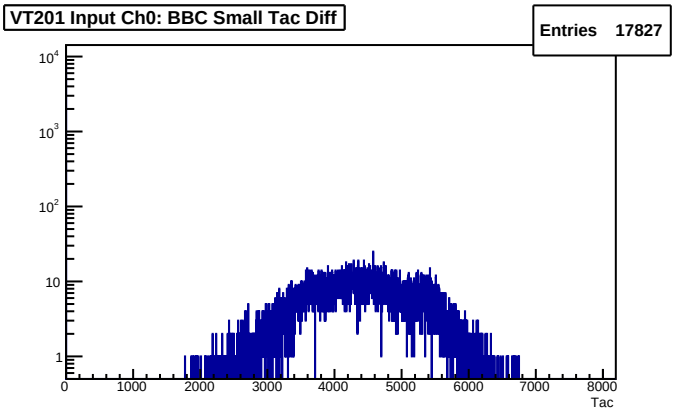

zdcEastTacVsSimu
Entries 82
Data
Simu

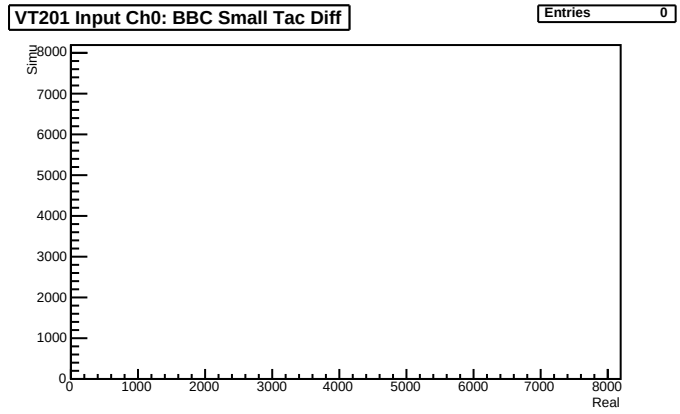

zdcWestTac
Entries 17827

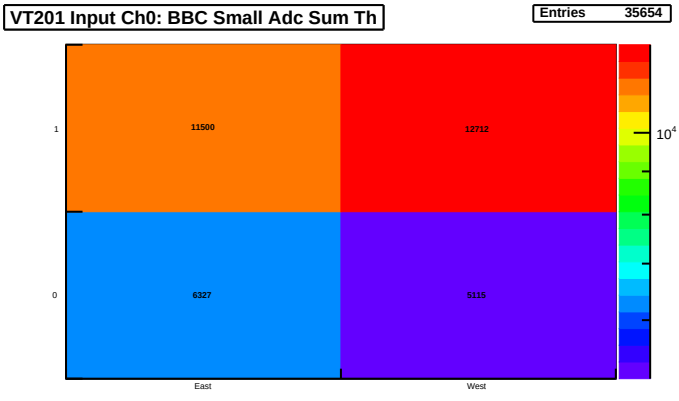

zdcWestTacVsSimu
Entries 79
Data
Simu

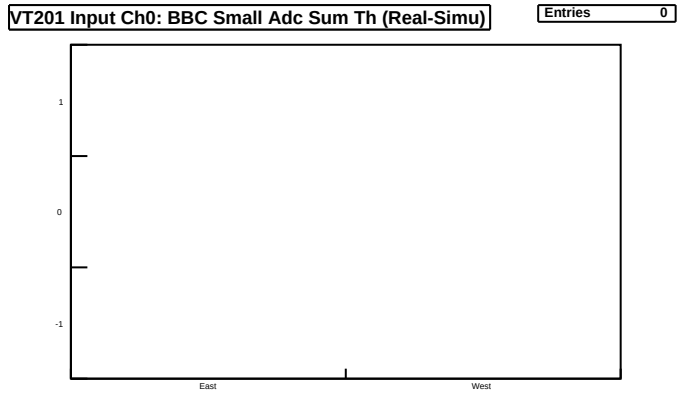

zdcAdcSum
Entries 213924
874
124
3190
190
3
3
3
2
16953
17703
17827
17827
17827
17827
14637
17637
17824
17824
17824
17825
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

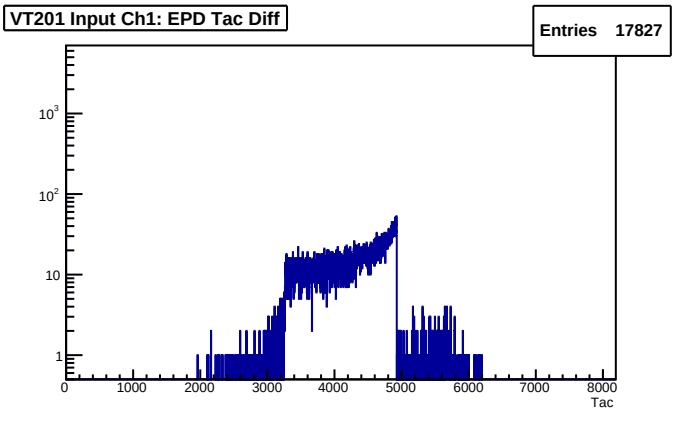

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

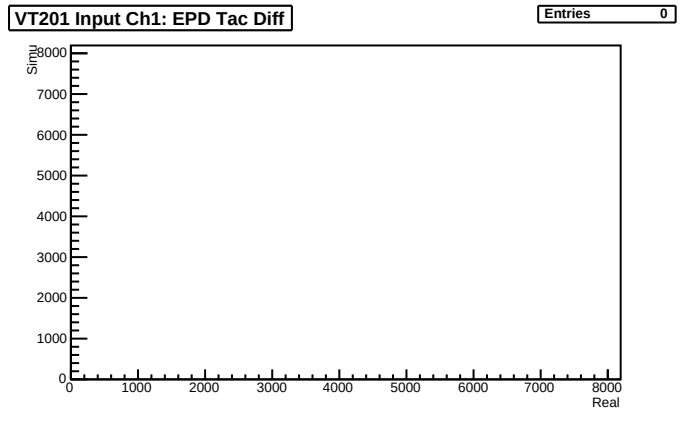

VT201 Input Ch0: BBC Small Tac Diff
Entries 17827
Tac

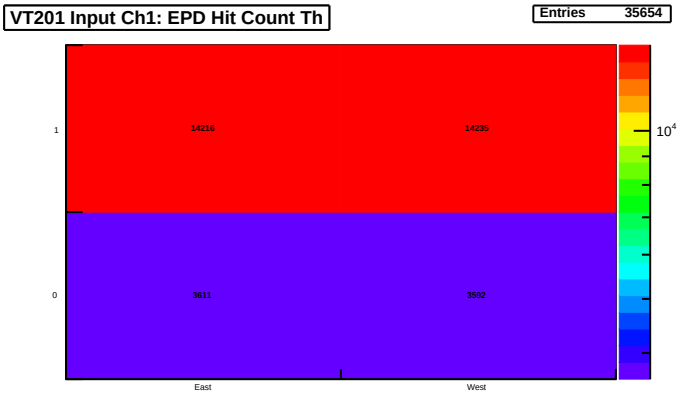

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

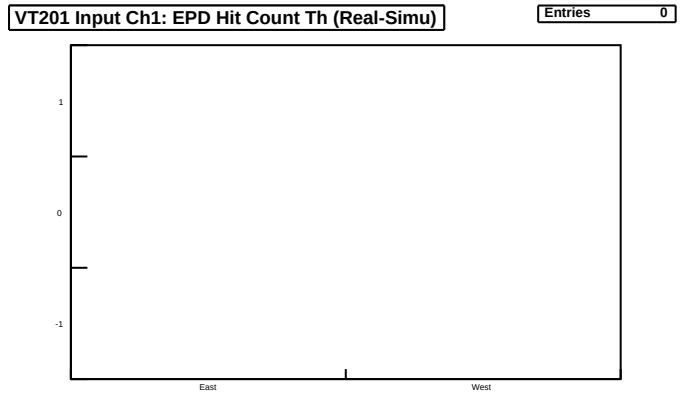

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 35654
11500
12712
6327
5115
East
West

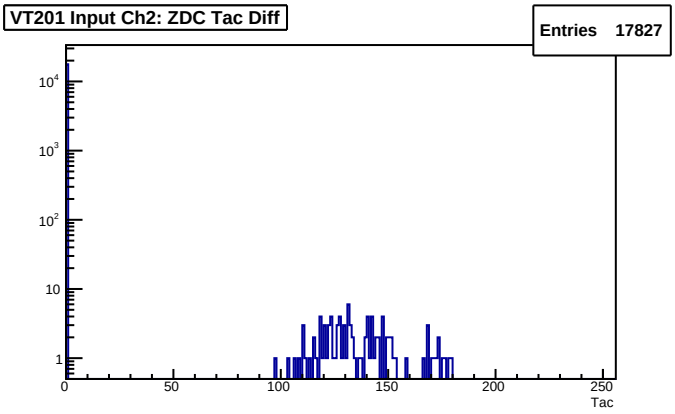

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

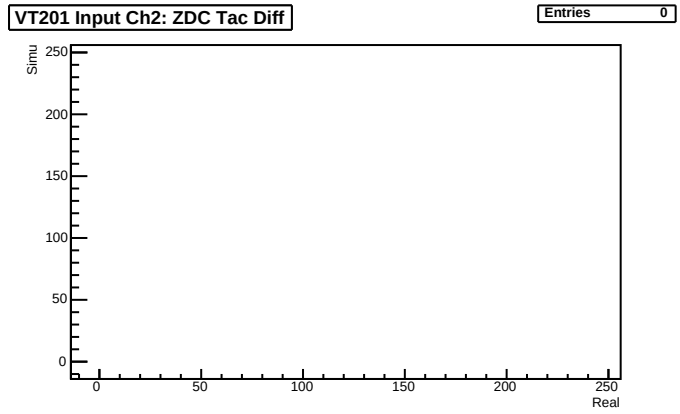

VT201 Input Ch1: EPD Tac Diff
Entries 17827
Tac

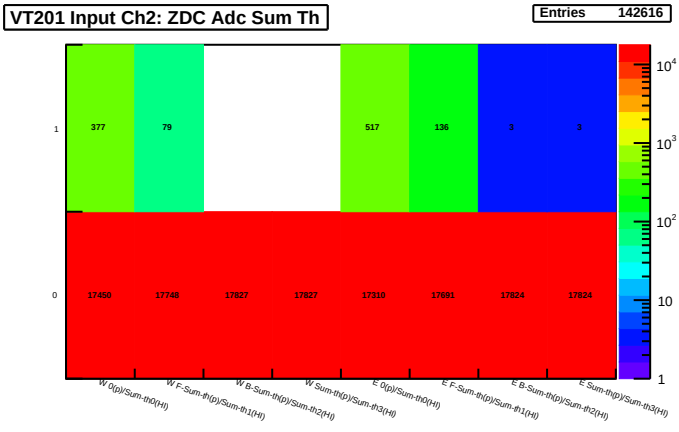

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

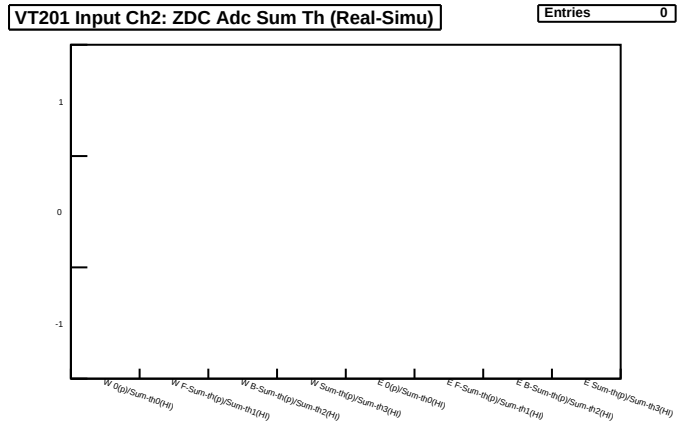

VT201 Input Ch1: EPD Hit Count Th
Entries 35654
14216
14235
3611
3592
East
West

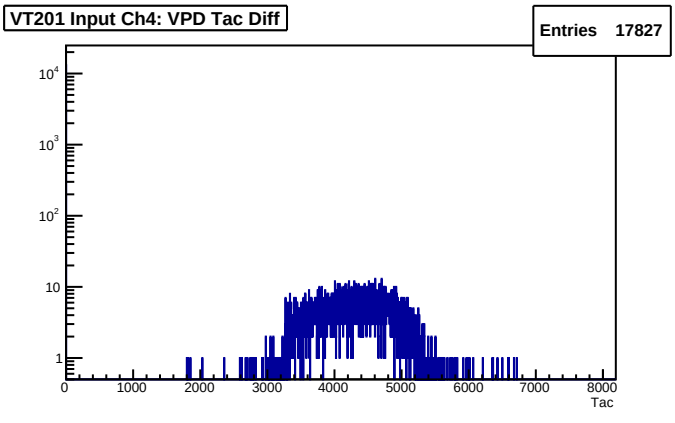

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

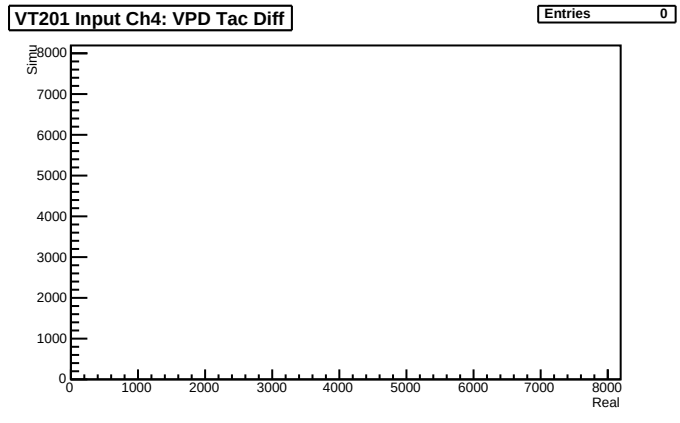

VT201 Input Ch2: ZDC Tac Diff
Entries 17827
Tac

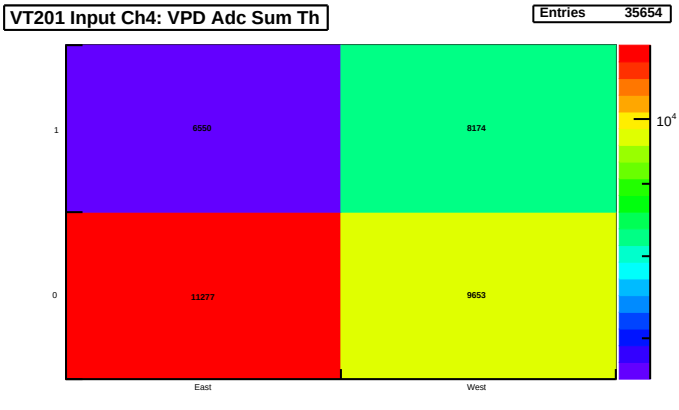

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

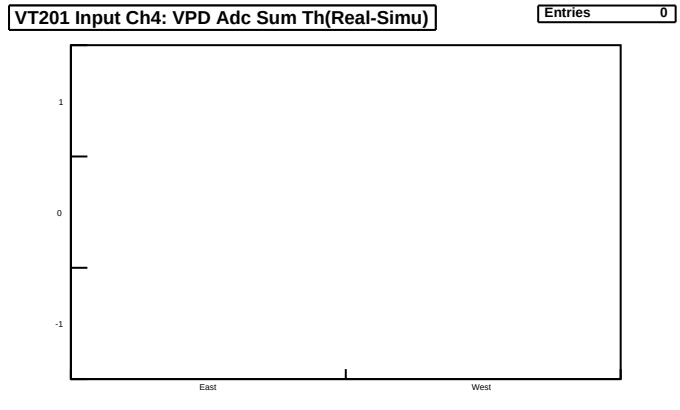

VT201 Input Ch2: ZDC Adc Sum Th
Entries 142616
377
79
517
136
3
3
17450
17748
17827
17827
17310
17691
17824
17824
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

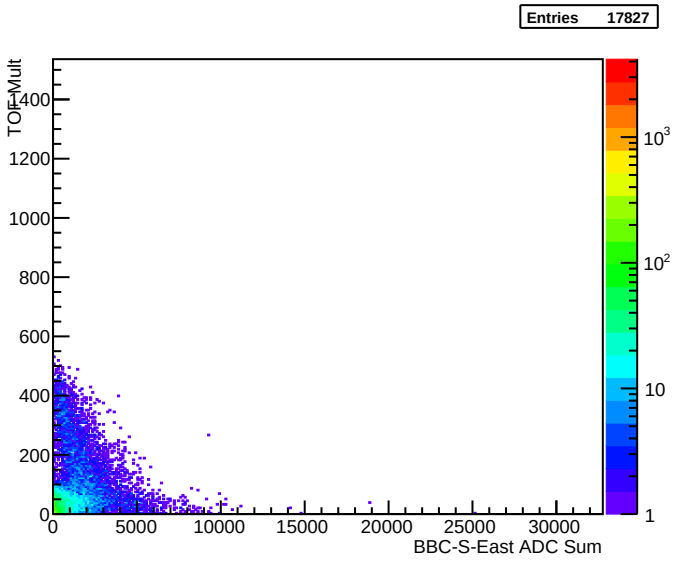

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

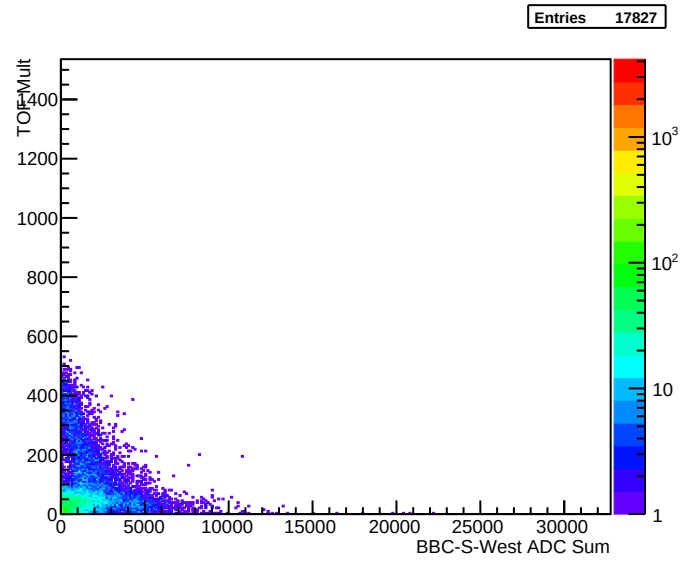

VT201 Input Ch4: VPD Tac Diff
Entries 17827
Tac

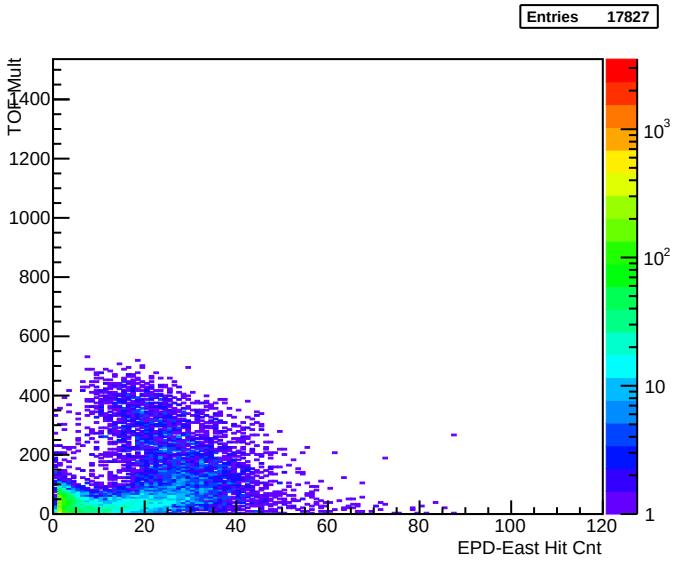

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

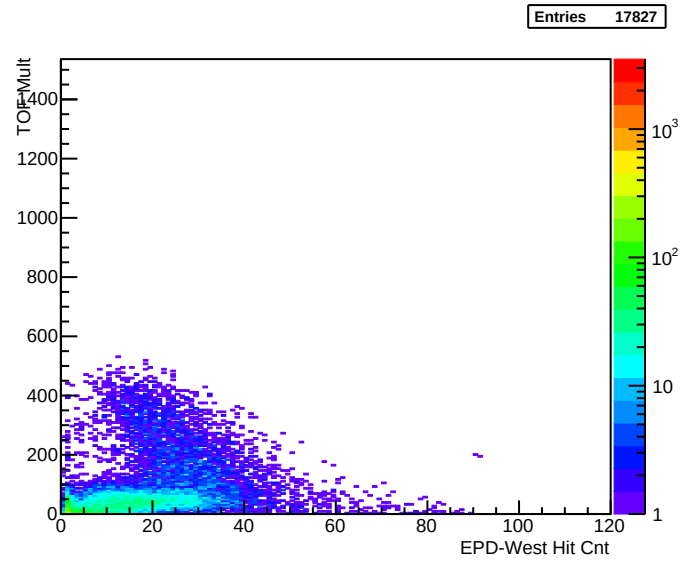

VT201 Input Ch4: VPD Adc Sum Th
Entries 35654
6550
8174
11277
9653
East
West

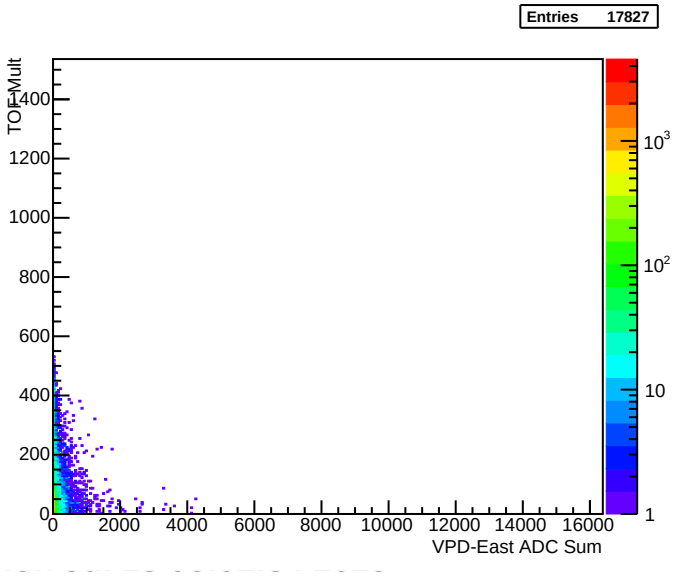

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

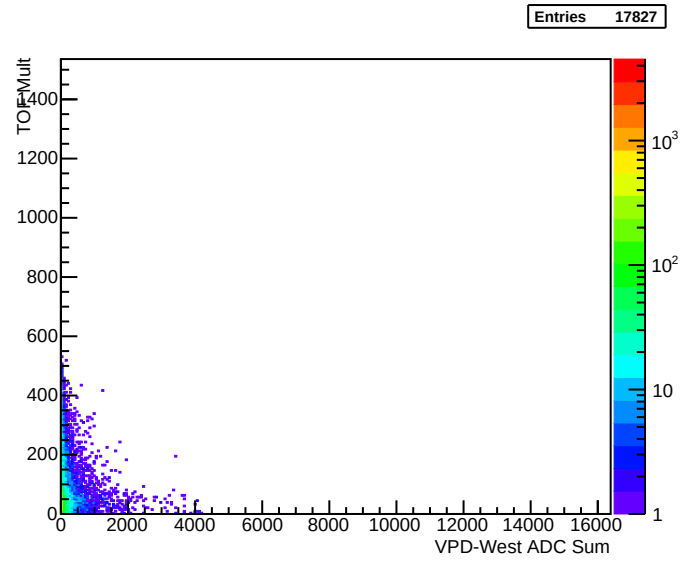

Entries 17827
TOF-Mult
BBC-S-East ADC Sum

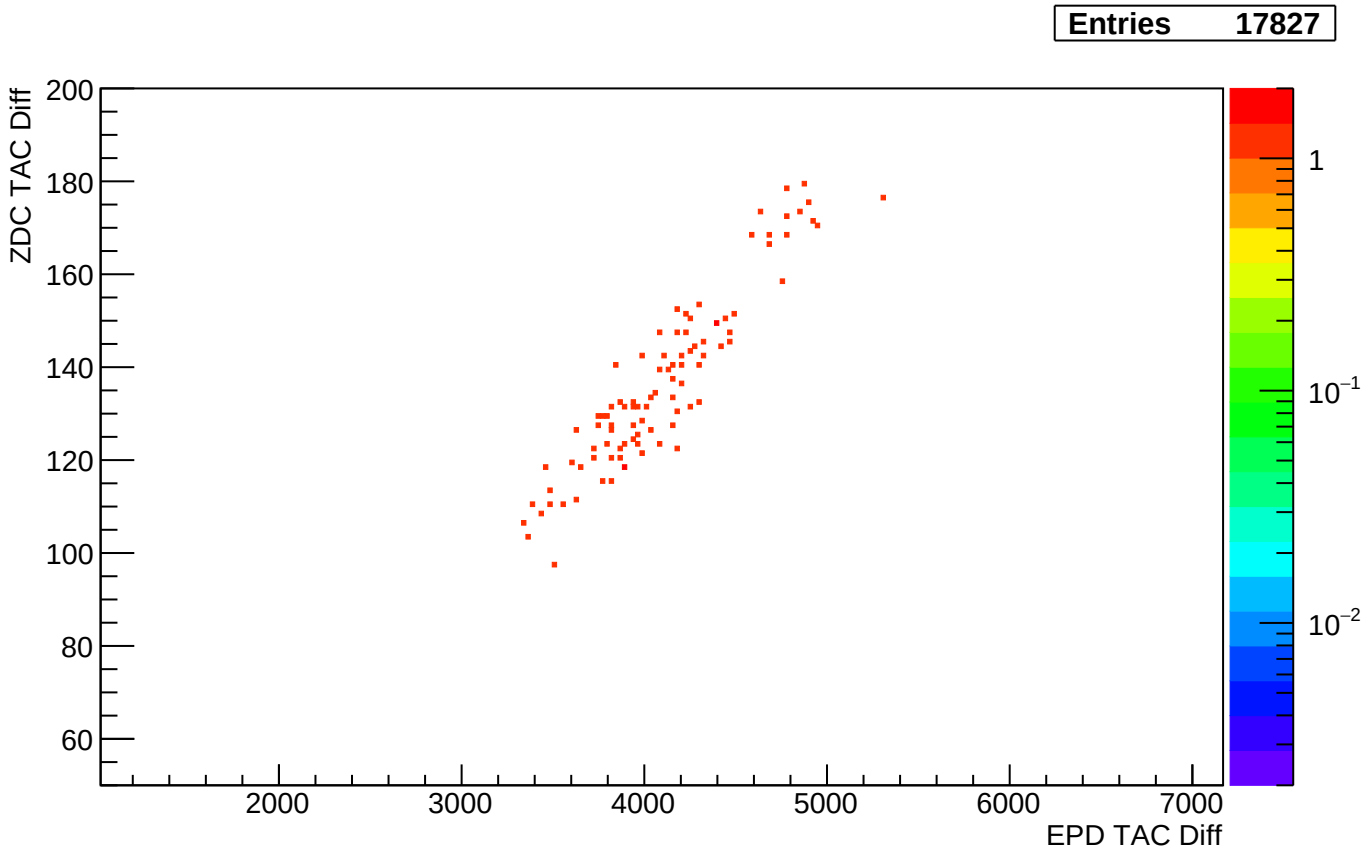

Entries 17827
TOF-Mult
BBC-S-West ADC Sum

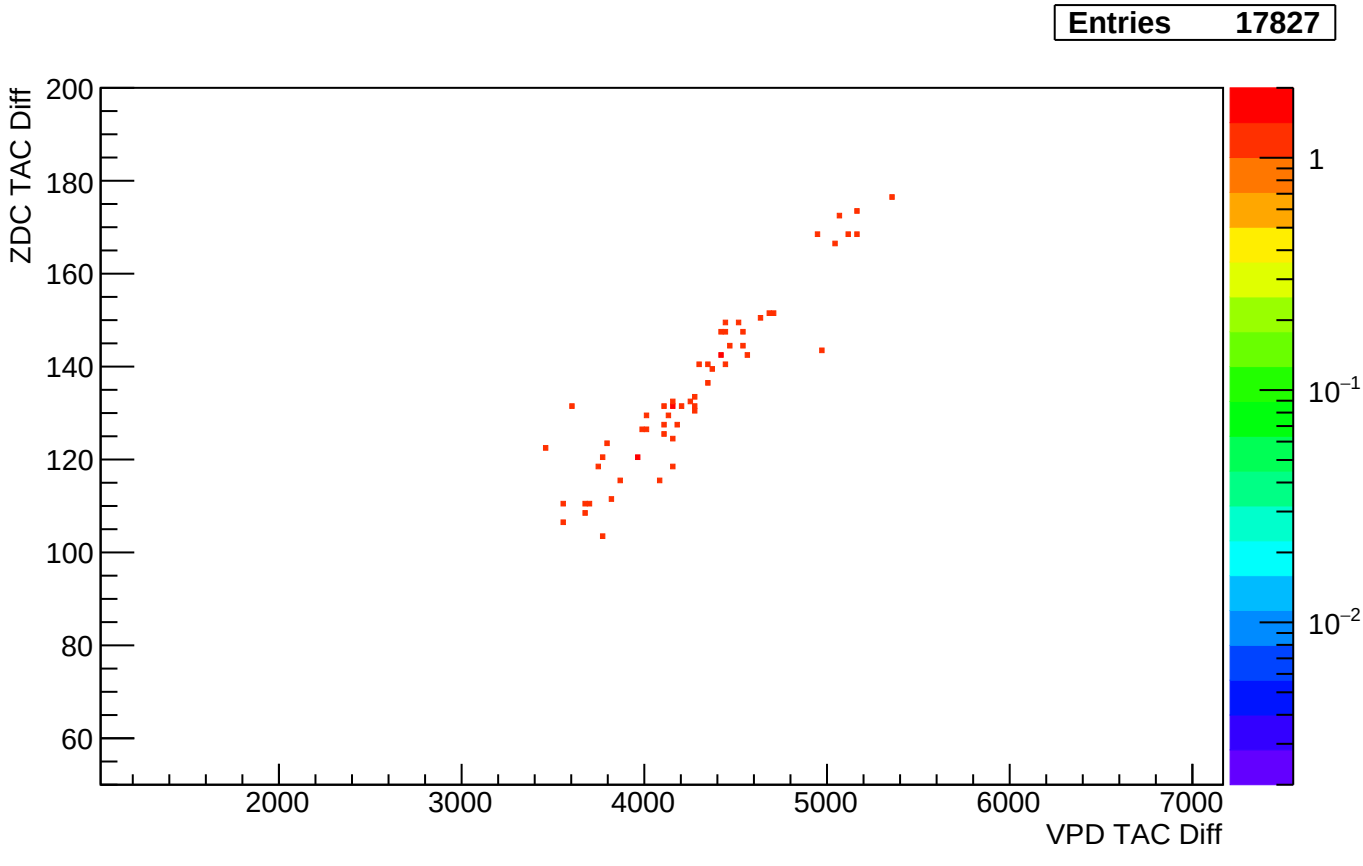

Entries 17827
TOF-Mult
EPD-East Hit Cnt

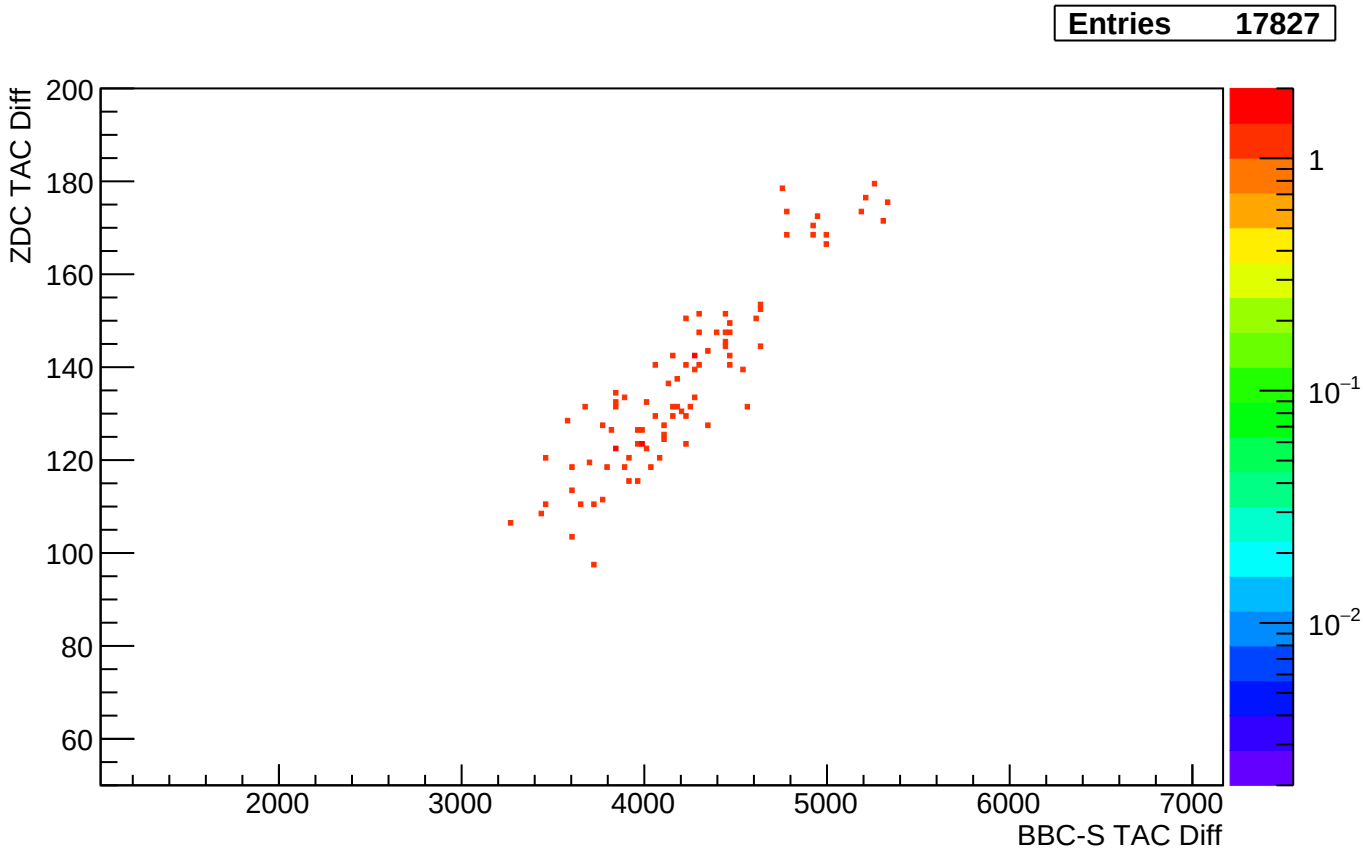

Entries 17827
TOF-Mult
EPD-West Hit Cnt

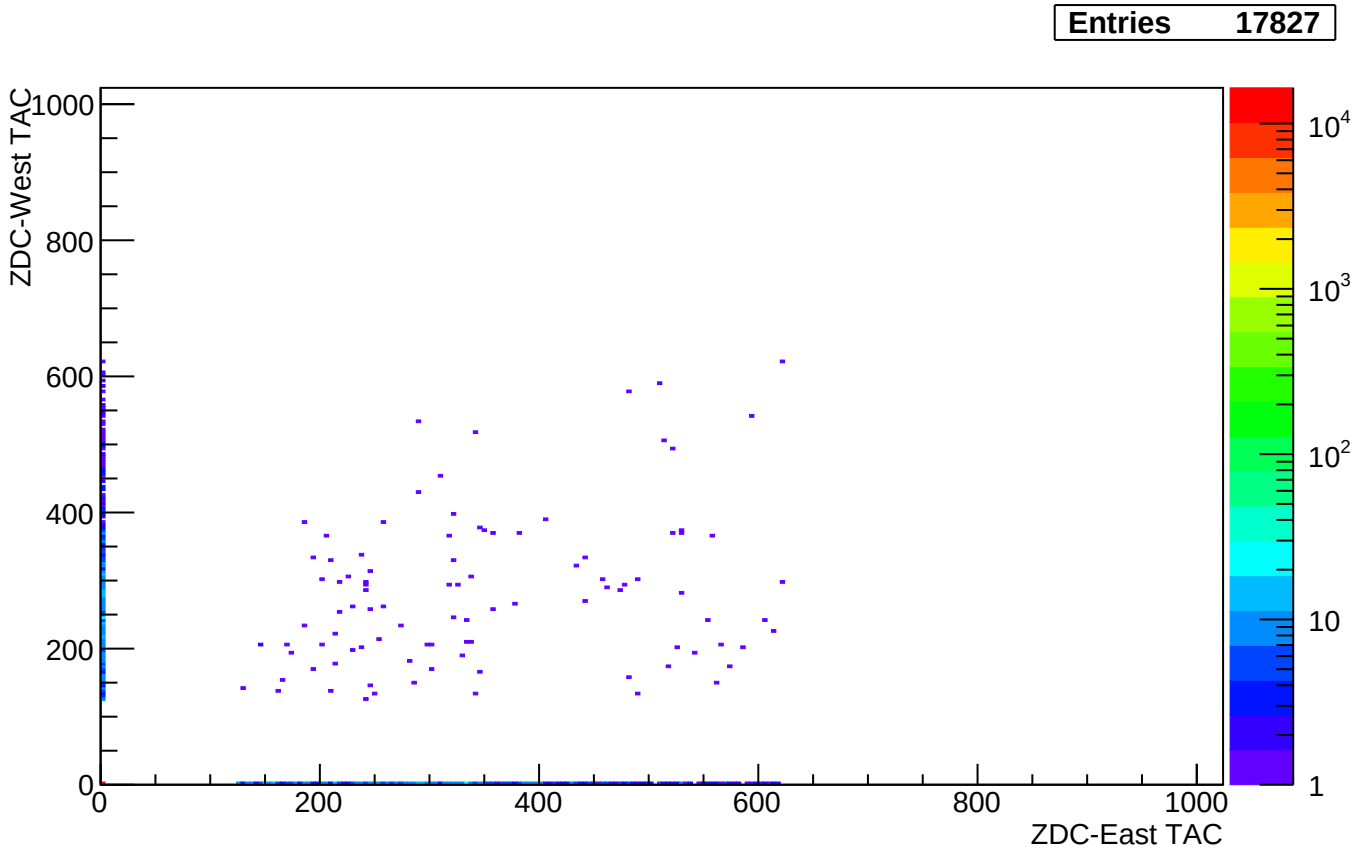

Entries 17827
TOF-Mult
VPD-East ADC Sum

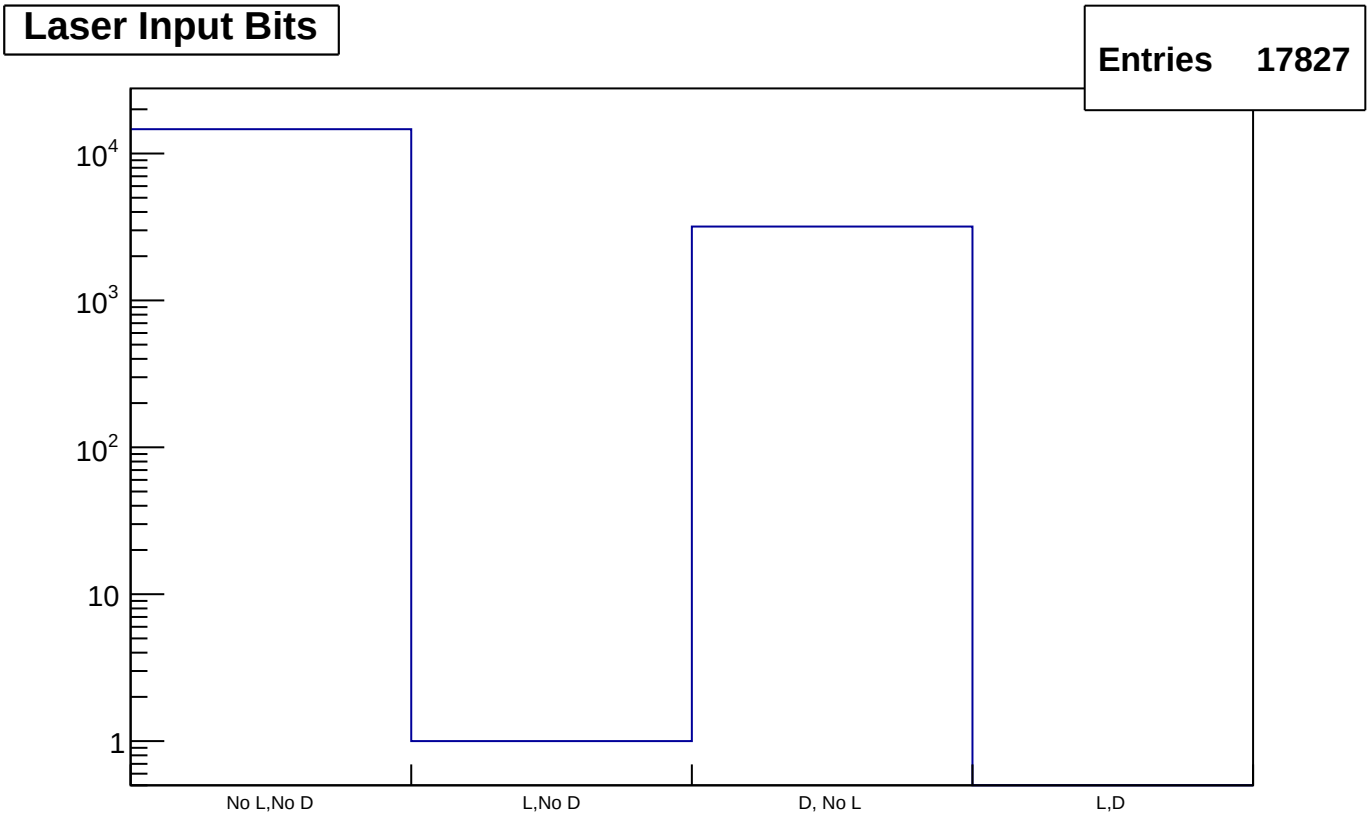

Entries 17827
TOF-Mult
VPD-West ADC Sum

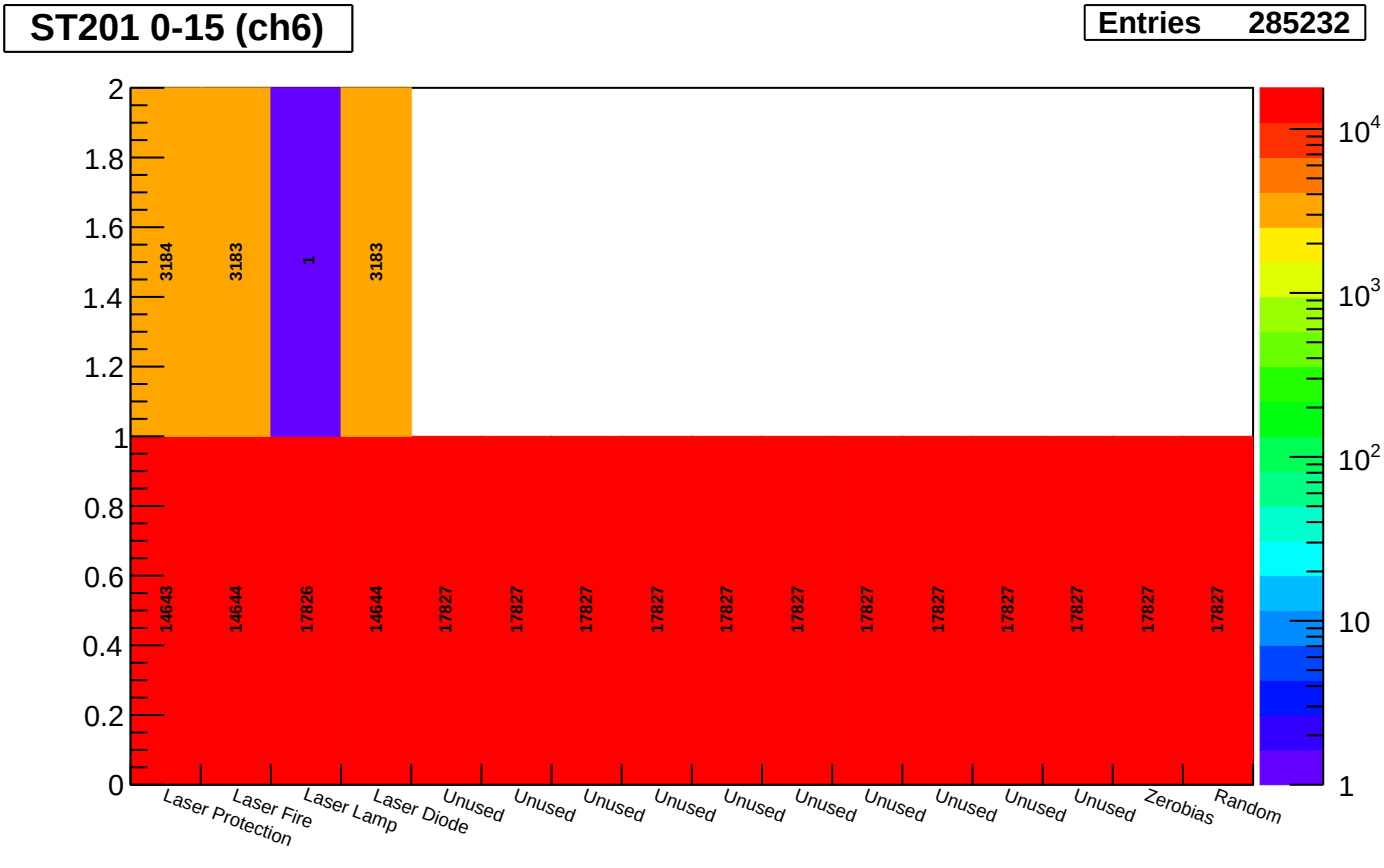

Entries 17827
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

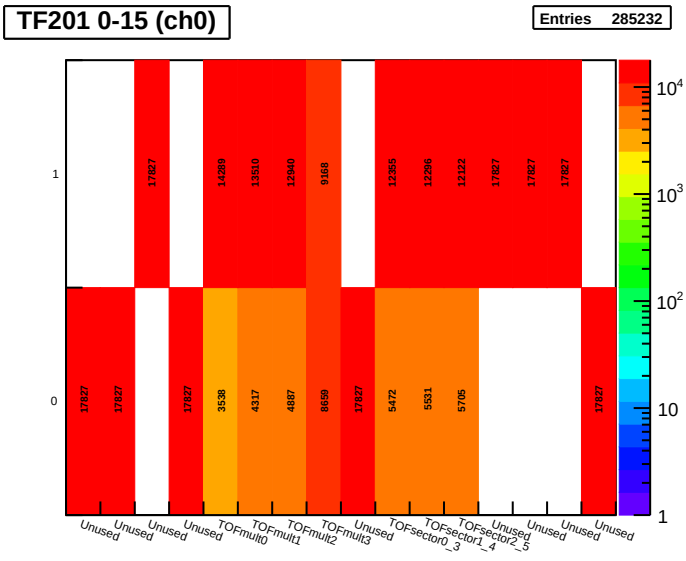

Entries 17827
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

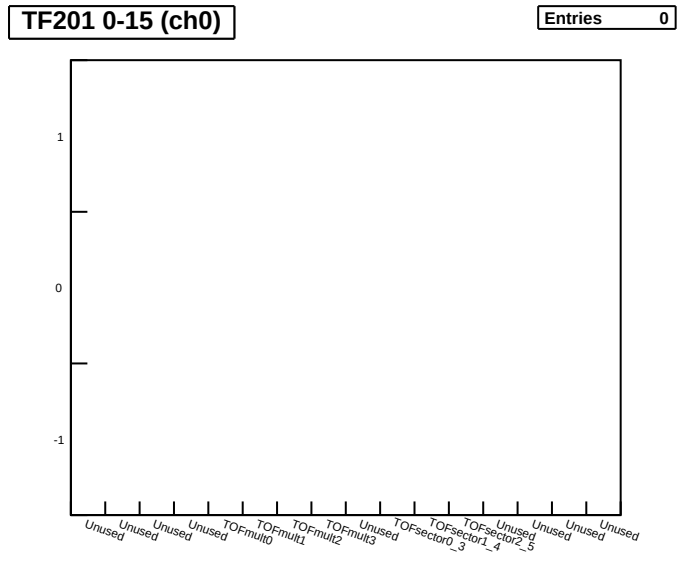

Entries 17827
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

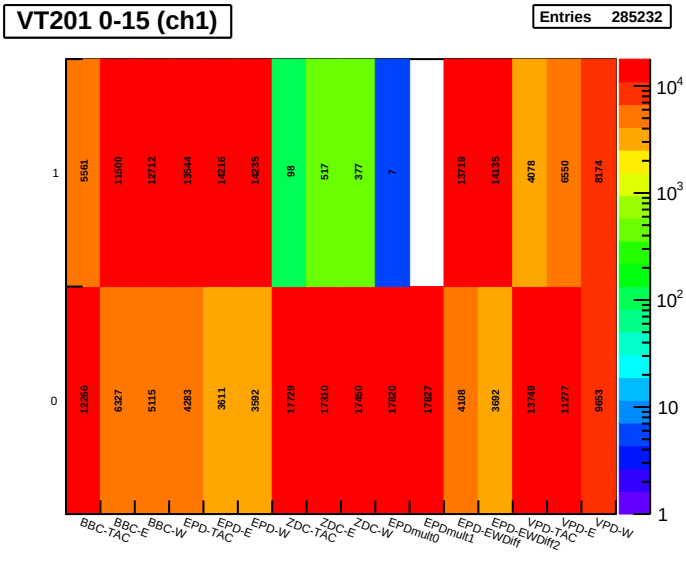

Entries 17827
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

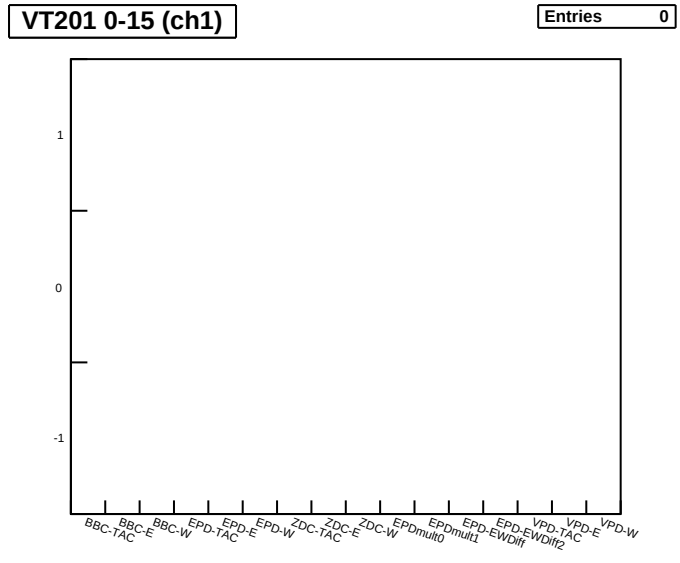

Laser Input Bits
Entries 17827
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

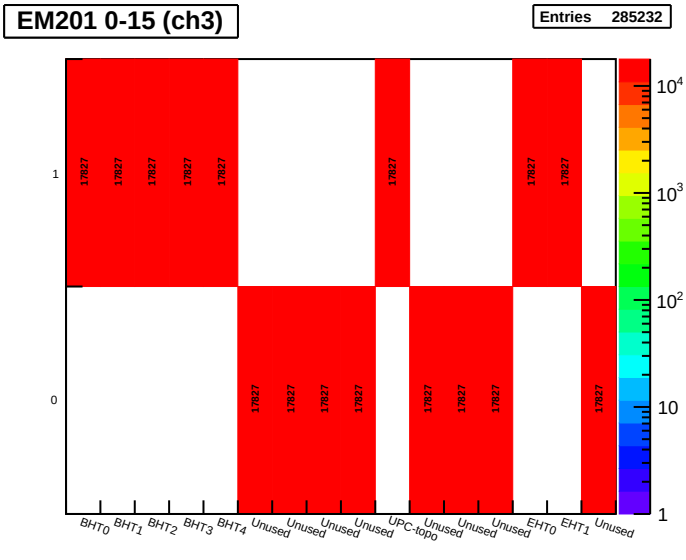

ST201 0-15 (ch6)
Entries 285232
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3184
3183
1
3183
14643
14644
17826
14644
17827
17827
17827
17827
17827
17827
17827
17827
17827
17827
17827
17827
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

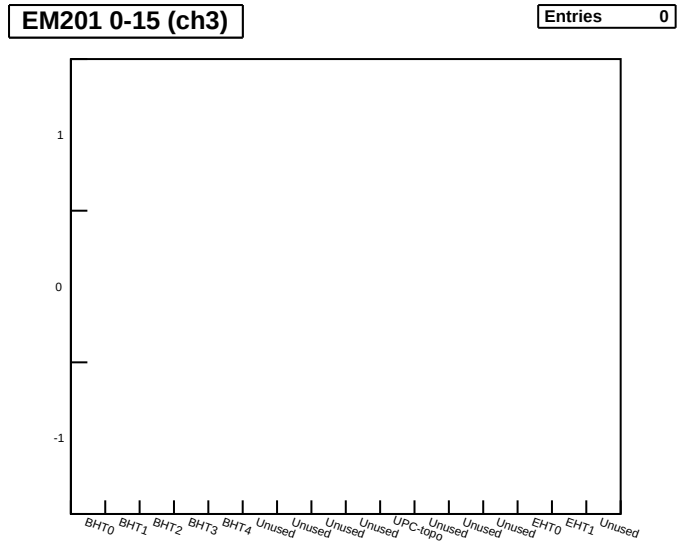

TF201 0-15 (ch0)
Entries 285232
1
0
17827 14289 13510 12940 9168 12355 12296 12122 17827 17827 17827
17827 17827 17827 3538 4317 4887 8690 17827 5472 5531 5705 17827
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
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 285232
1
0
5561 11500 12712 13544 14216 14235 98 517 377 7 13719 14135 4078 6550 8174
12266 6327 5115 4283 3611 3592 17729 17310 17450 17820 17827 4108 3692 13749 11277 9653
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 285232
1
0
17827 17827 17827 17827 17827 17827 17827 17827
17827 17827 17827 17827 17827 17827 17827 17827
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