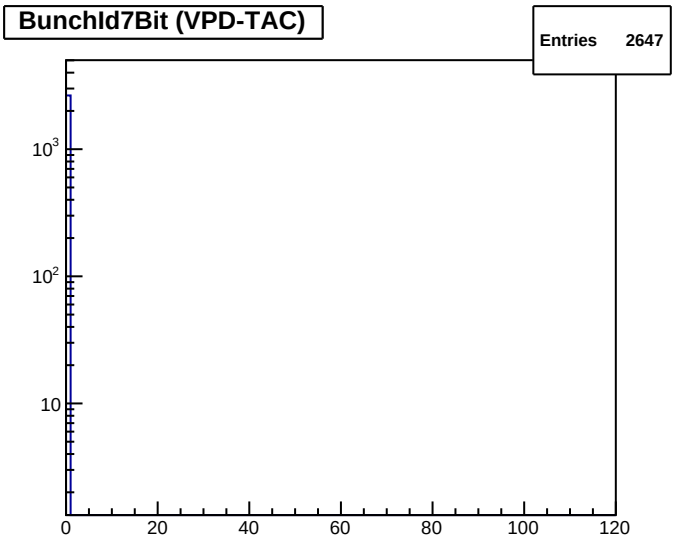
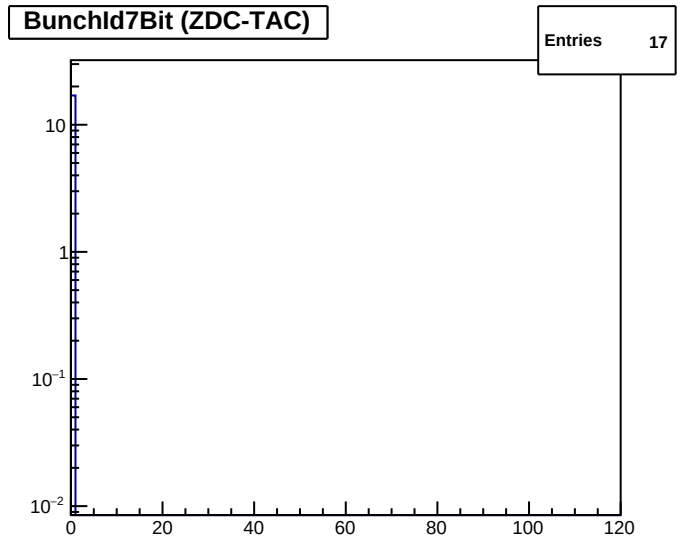
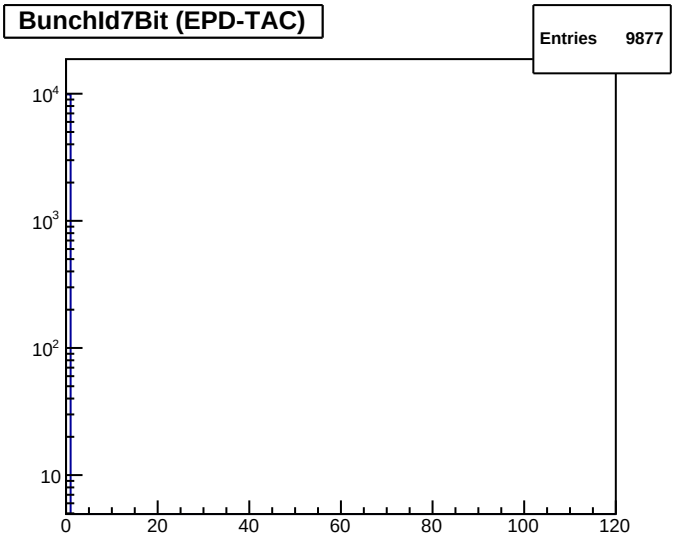
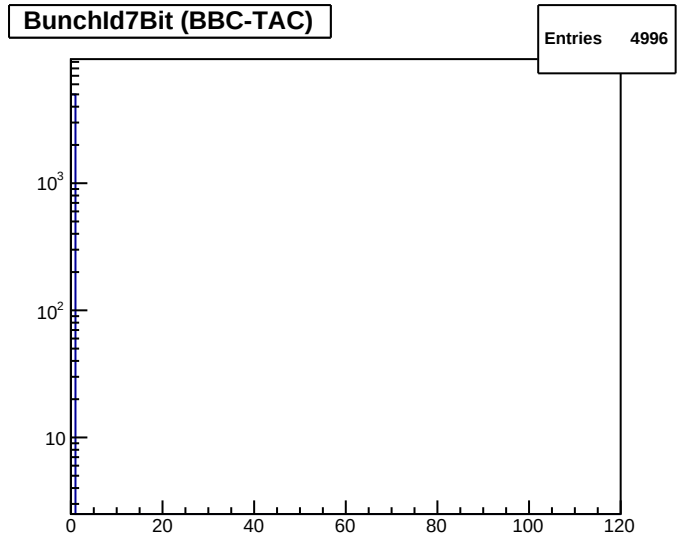
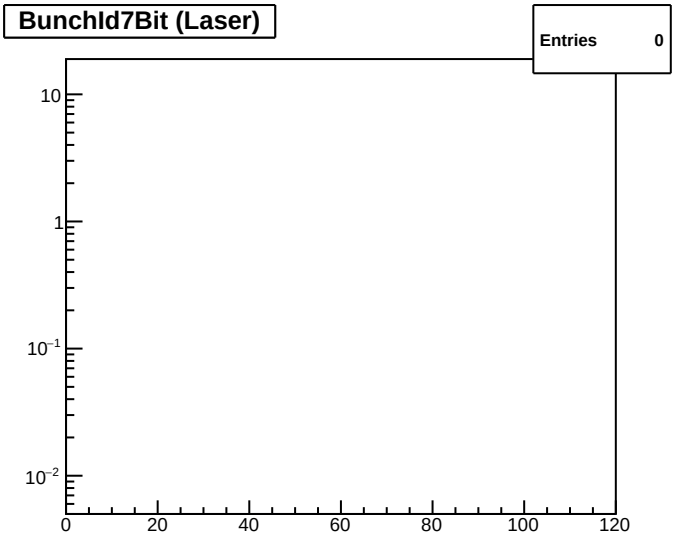
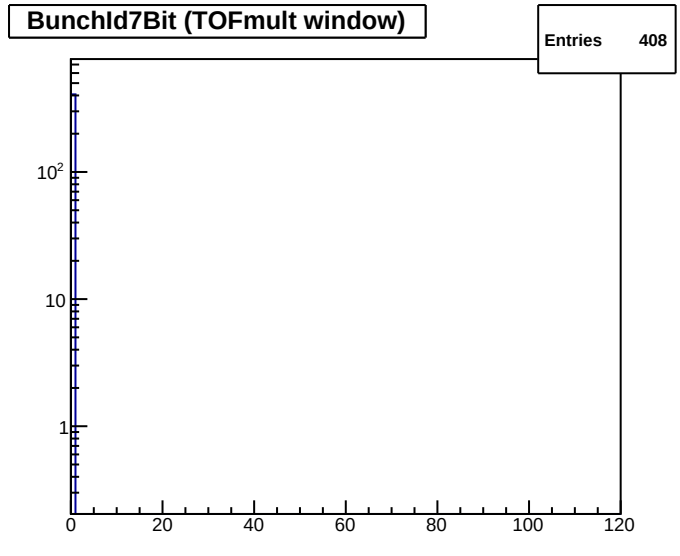

BunchId7Bit (VPD-TAC)
Entries 2647
10^3
10^2
10
0 20 40 60 80 100 120

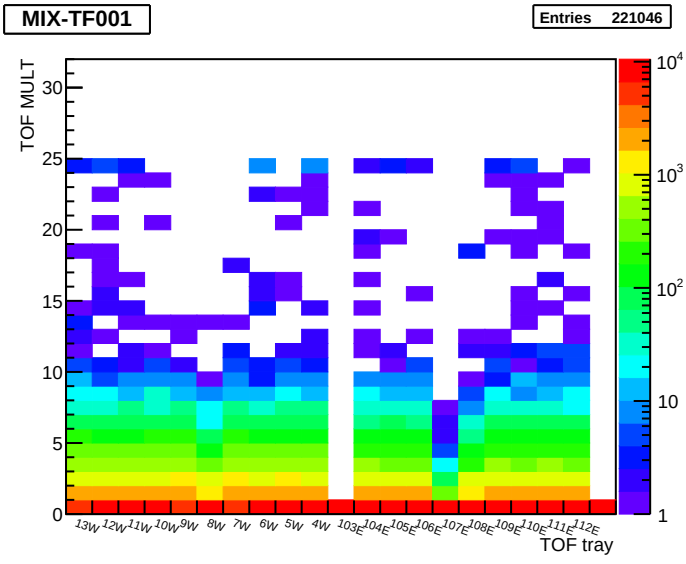

BunchId7Bit (ZDC-TAC)
Entries 17
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

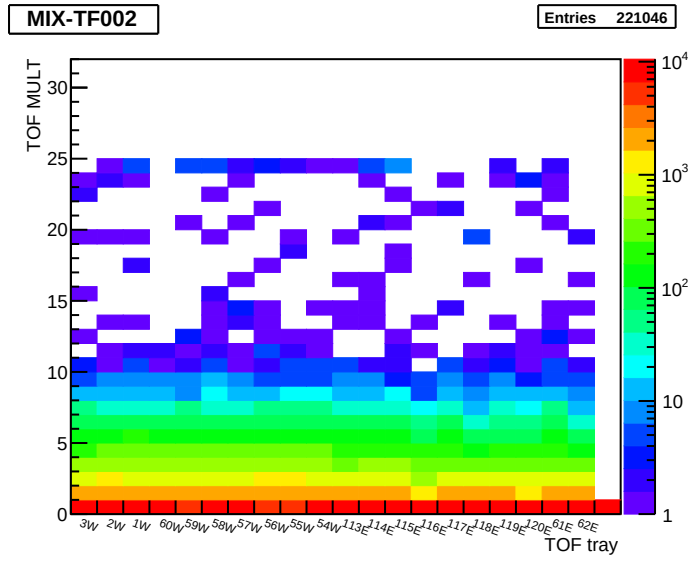

BunchId7Bit (EPD-TAC)
Entries 9877
10^4
10^3
10^2
10
0 20 40 60 80 100 120

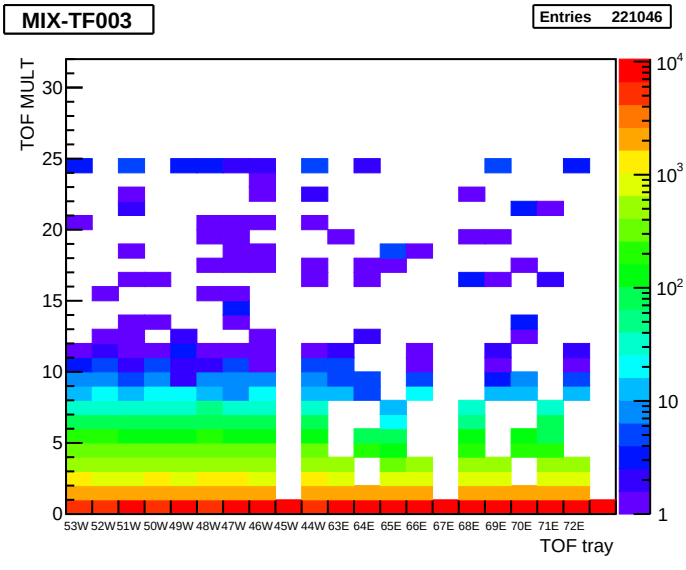

BunchId7Bit (BBC-TAC)
Entries 4996
10^3
10^2
10
0 20 40 60 80 100 120

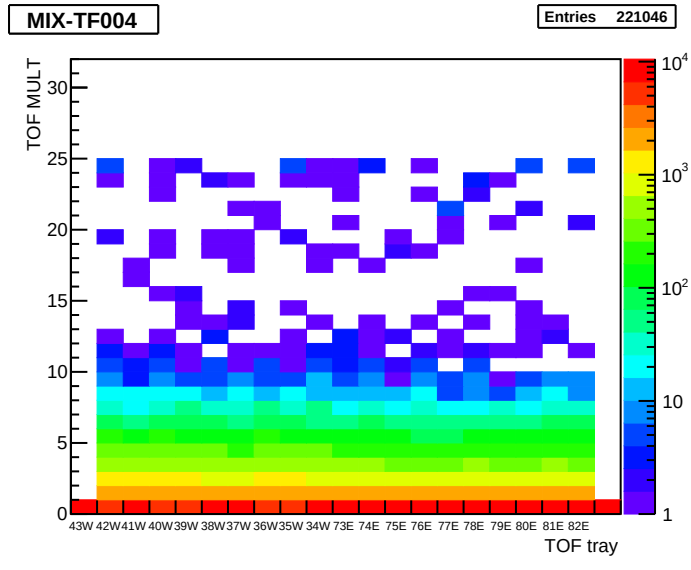

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

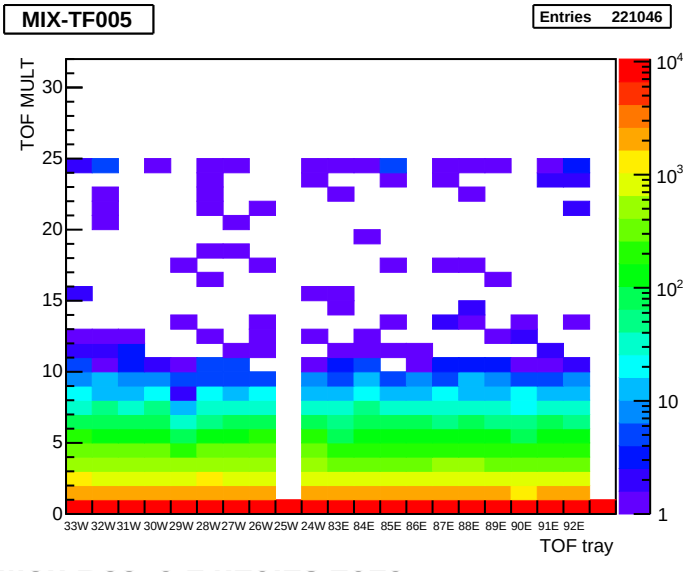

BunchId7Bit (TOFmult window)
Entries 408
10^2
10
1
0 20 40 60 80 100 120

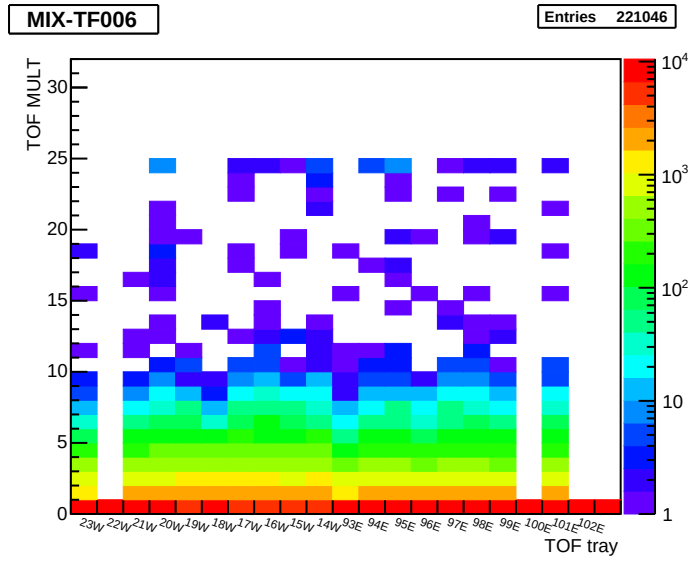

MIX-TF001
Entries 221046
TOF MULT
TOF tray

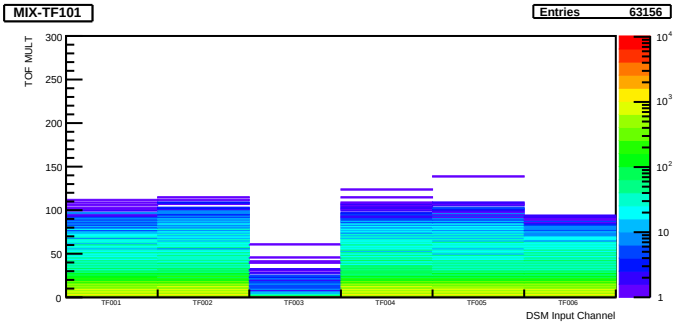

MIX-TF002
Entries 221046
TOF MULT
TOF tray

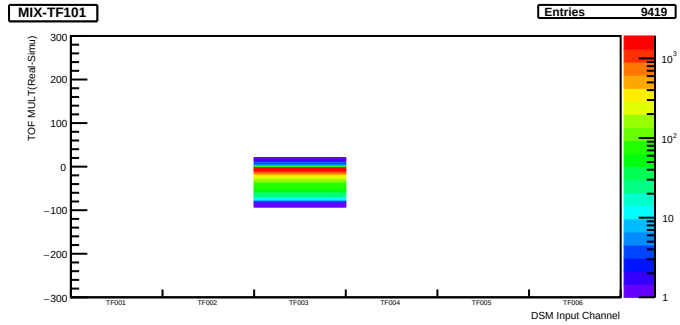

MIX-TF003
Entries 221046
TOF MULT
TOF tray

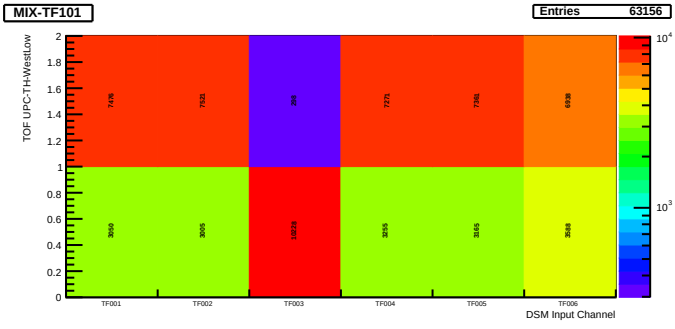

MIX-TF004
Entries 221046
TOF MULT
TOF tray

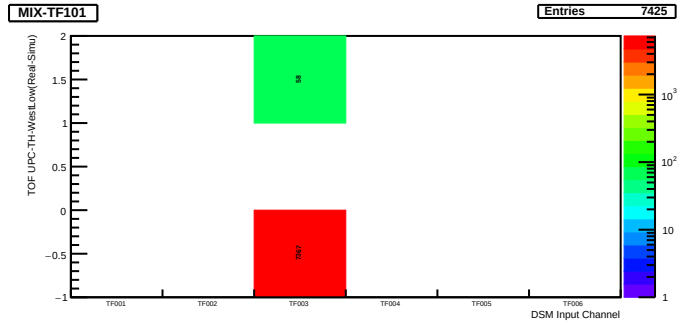

MIX-TF005
Entries 221046
TOF MULT
TOF tray

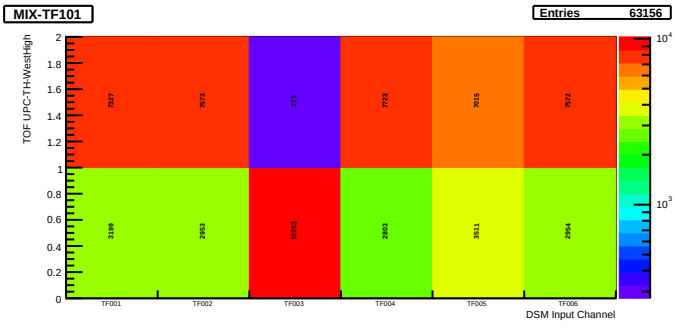

MIX-TF006
Entries 221046
TOF MULT
TOF tray

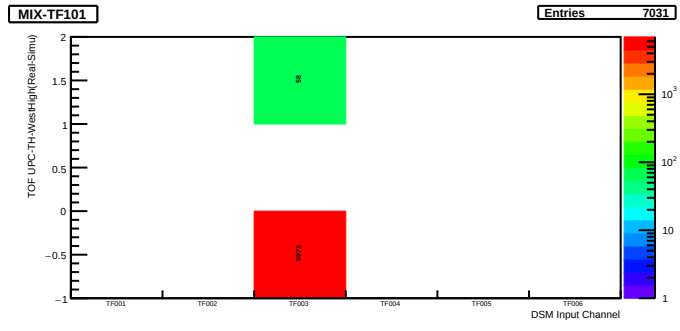

MIX-TF101
Entries 63156
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

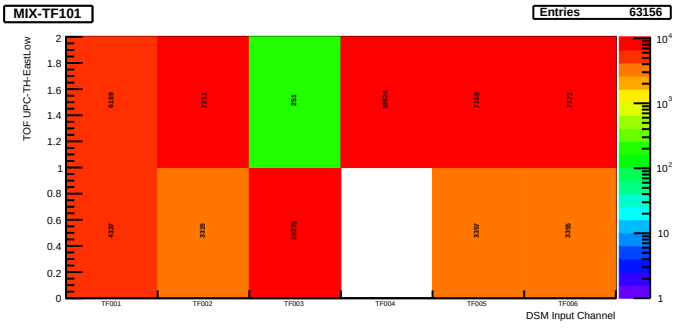

MIX-TF101
Entries 9419
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

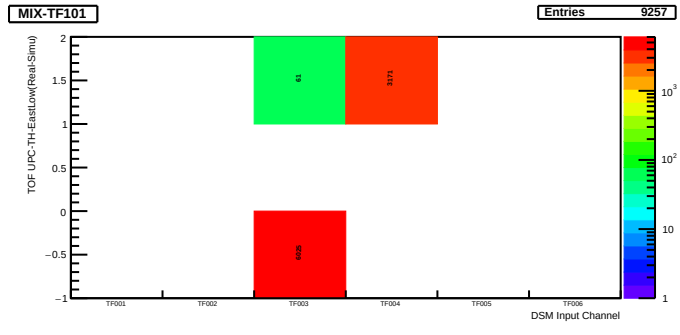

MIX-TF101
Entries 63156
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

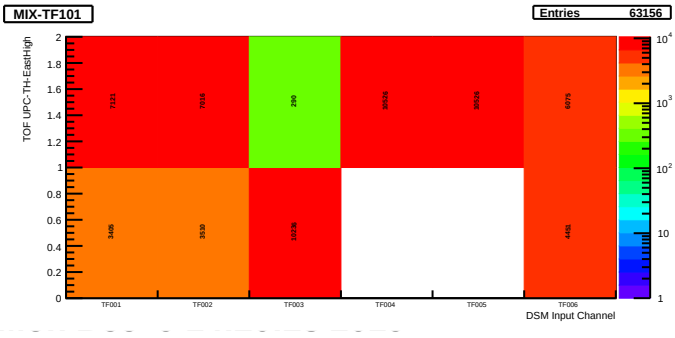

MIX-TF101
Entries 7425
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

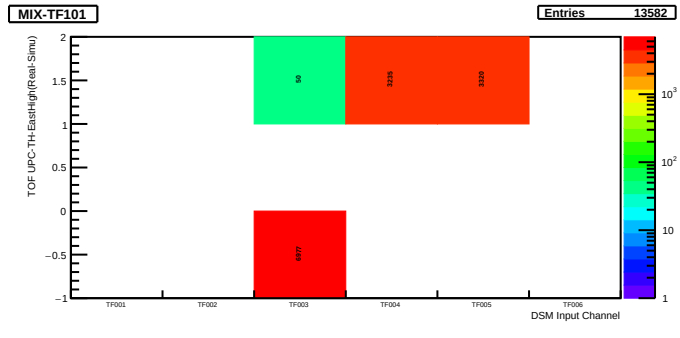

MIX-TF101
Entries 63156
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

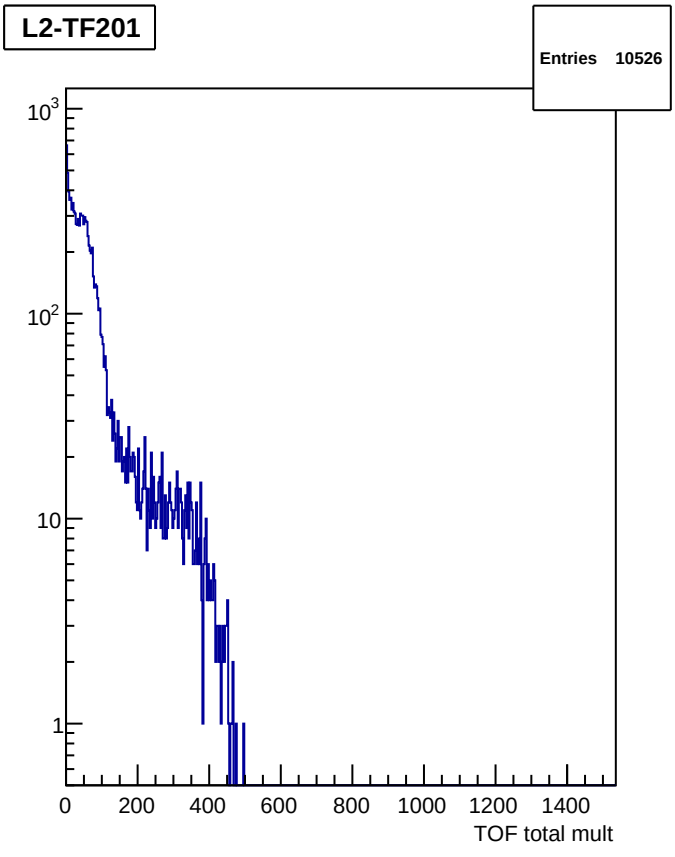

MIX-TF101
Entries 7031
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

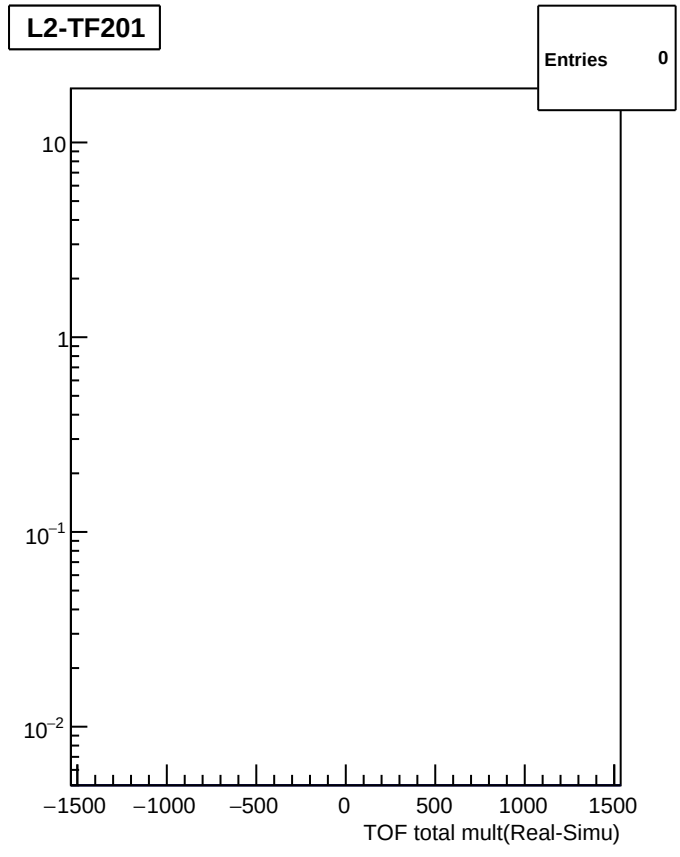

MIX-TF101
Entries 63156
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

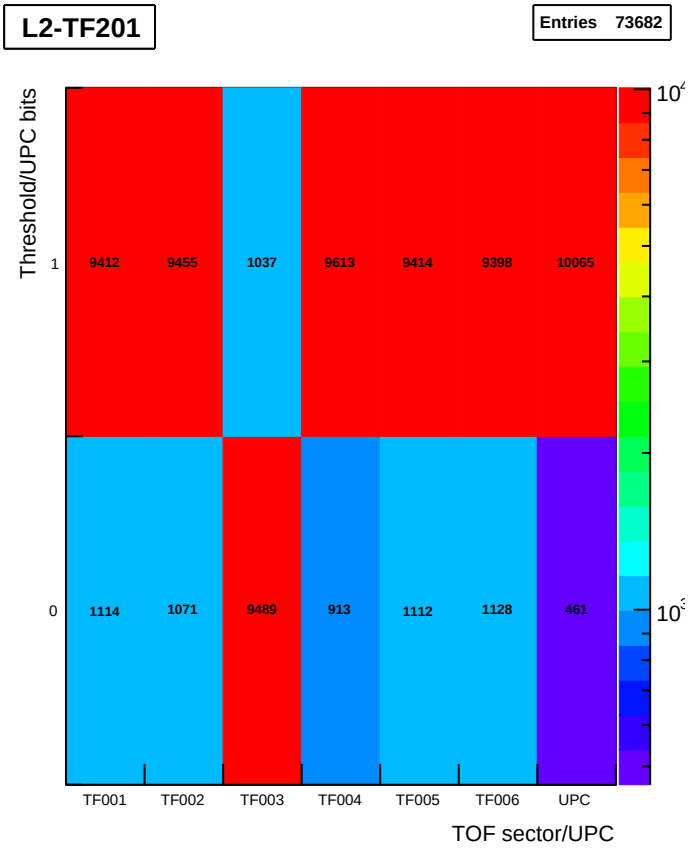

MIX-TF101
Entries 9257
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

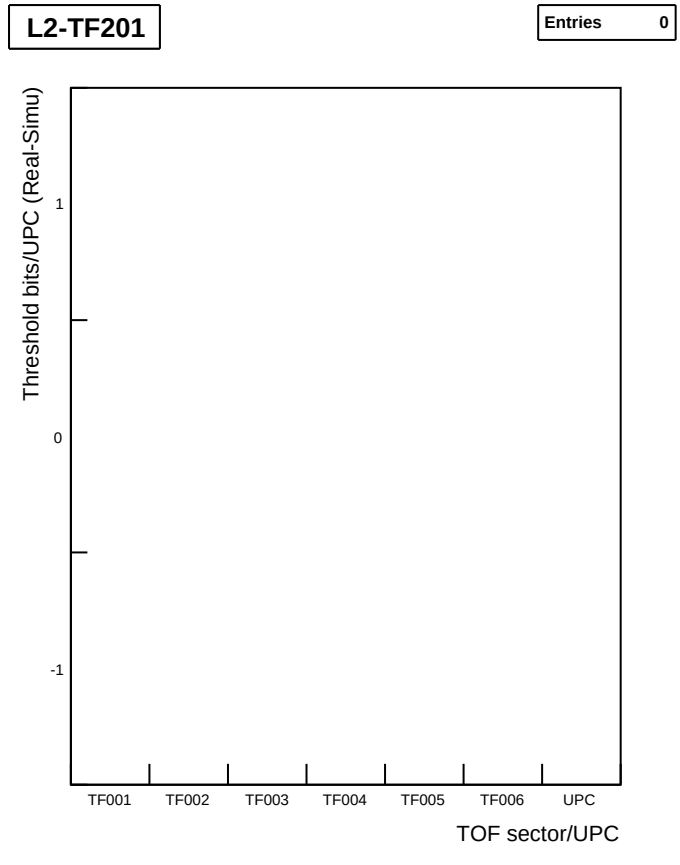

MIX-TF101
Entries 63156
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

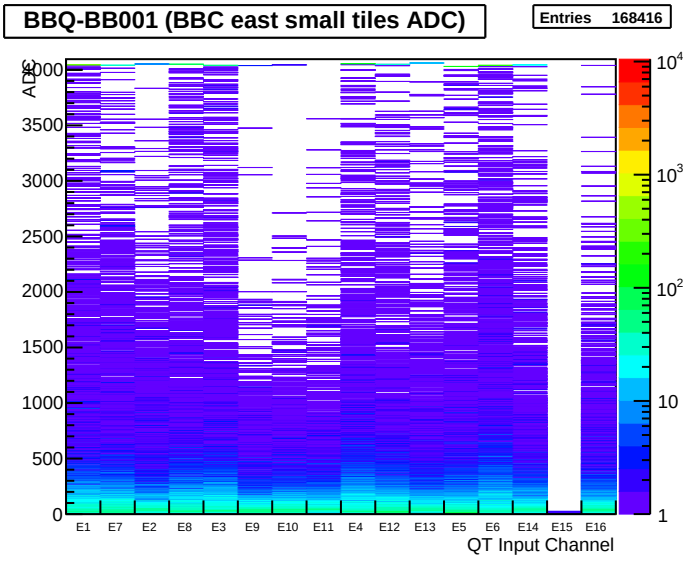

MIX-TF101
Entries 13582
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

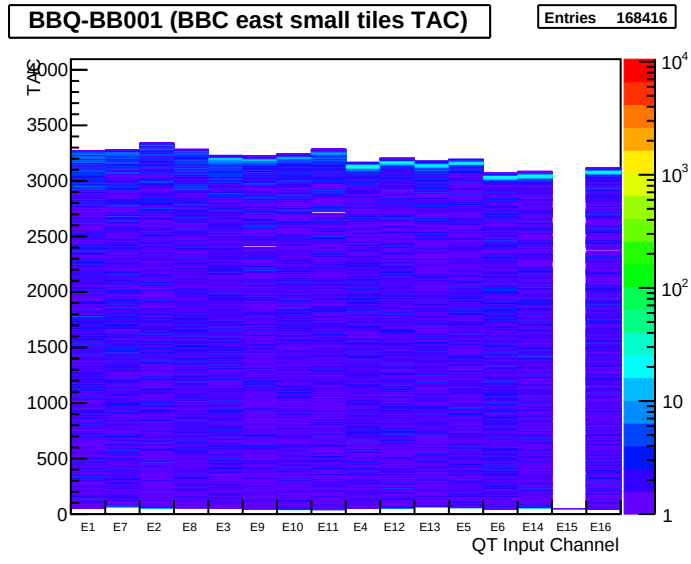

L2-TF201
Entries 10526
TOF total mult

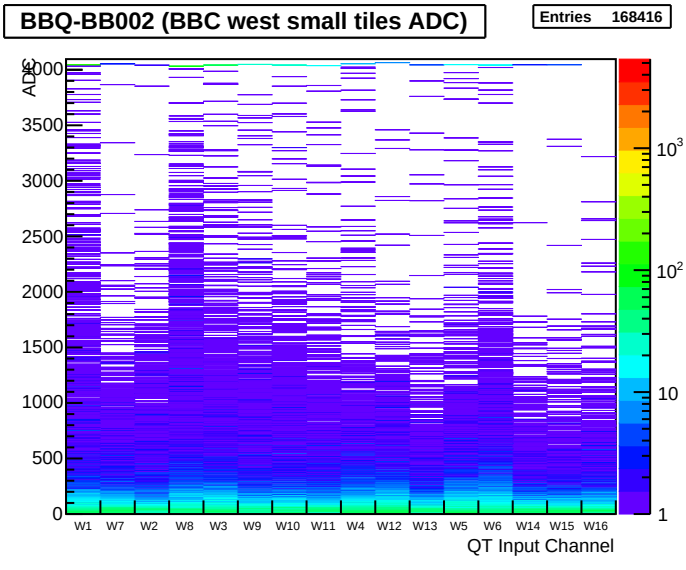

L2-TF201
Entries 0
TOF total mult(Real-Simu)

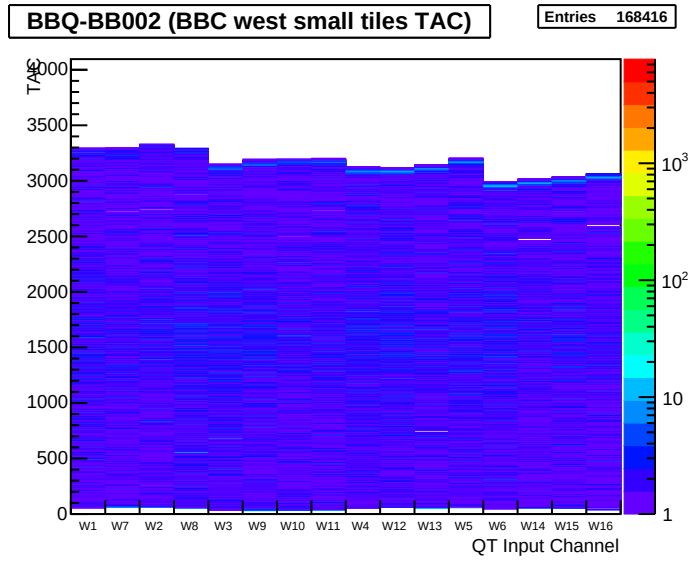

L2-TF201
Entries 73682
Threshold/UPC bits
9412
9455
1037
9613
9414
9398
10065
1114
1071
9489
913
1112
1128
461
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

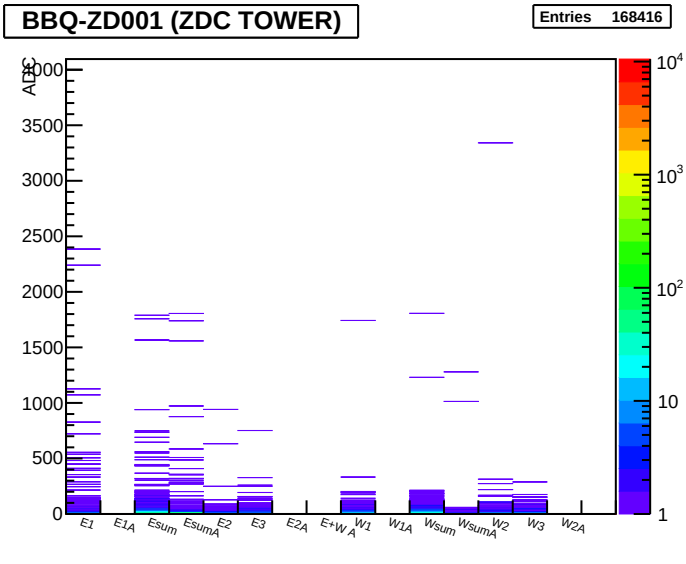

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

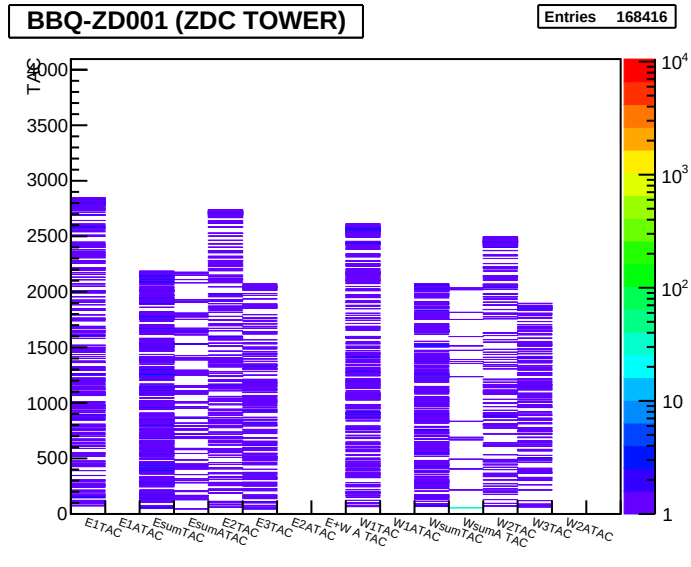

BBQ-BB001 (BBC east small tiles ADC)
Entries 168416
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

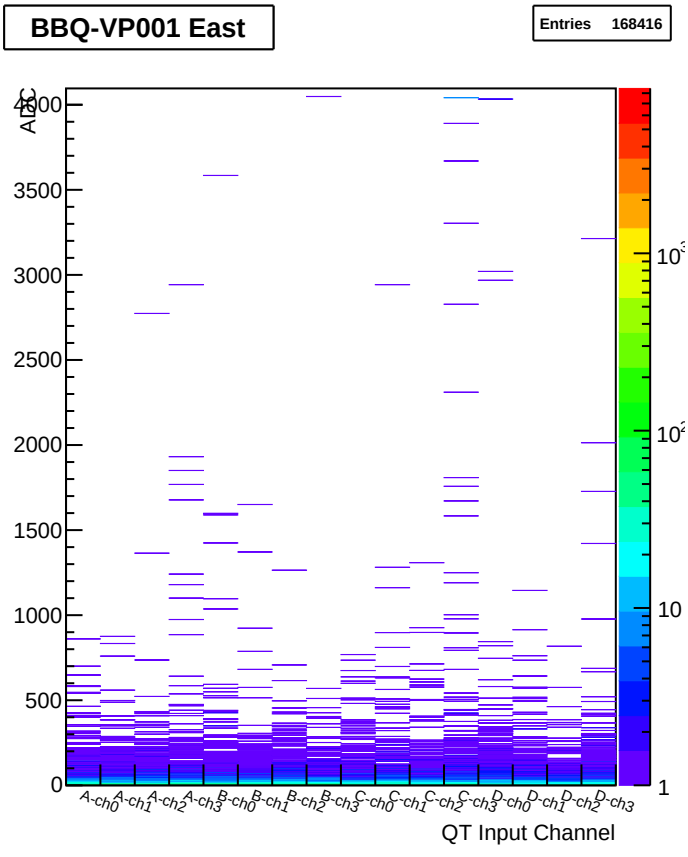

BBQ-BB001 (BBC east small tiles TAC)
Entries 168416
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

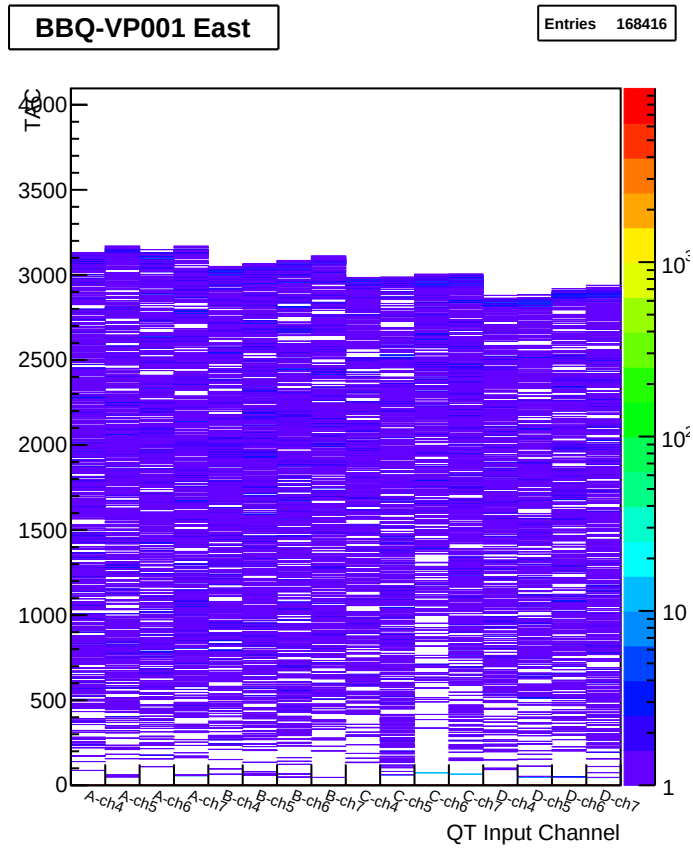

BBQ-BB002 (BBC west small tiles ADC)
Entries 168416
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

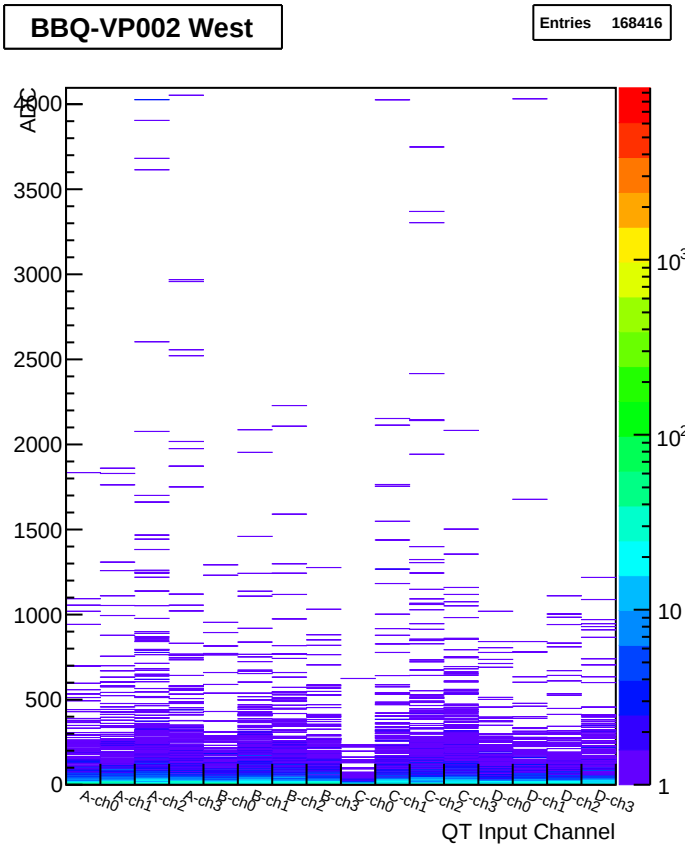

BBQ-BB002 (BBC west small tiles TAC)
Entries 168416
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

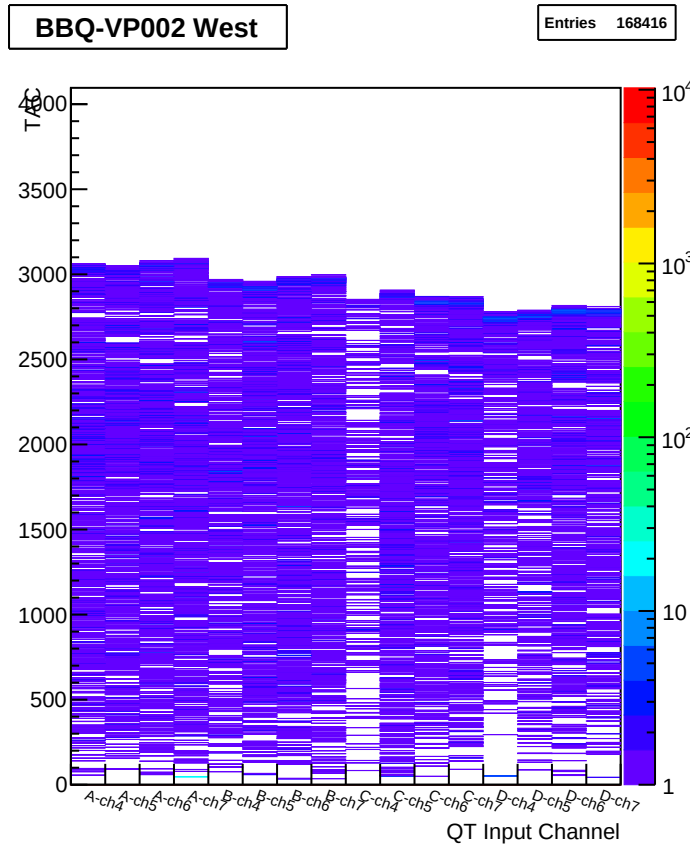

BBQ-ZD001 (ZDC TOWER)
Entries 168416
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

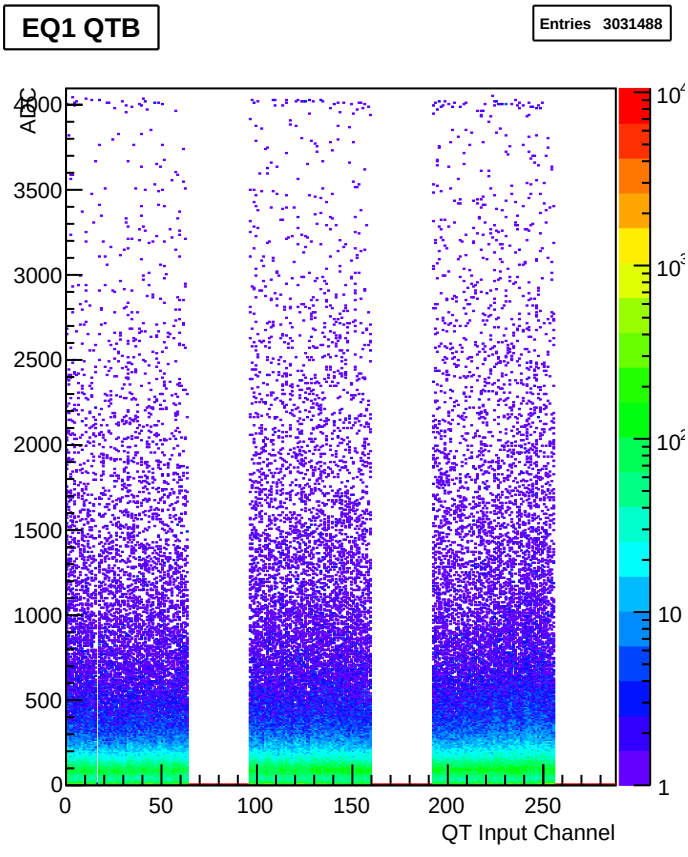

BBQ-ZD001 (ZDC TOWER)
Entries 168416
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

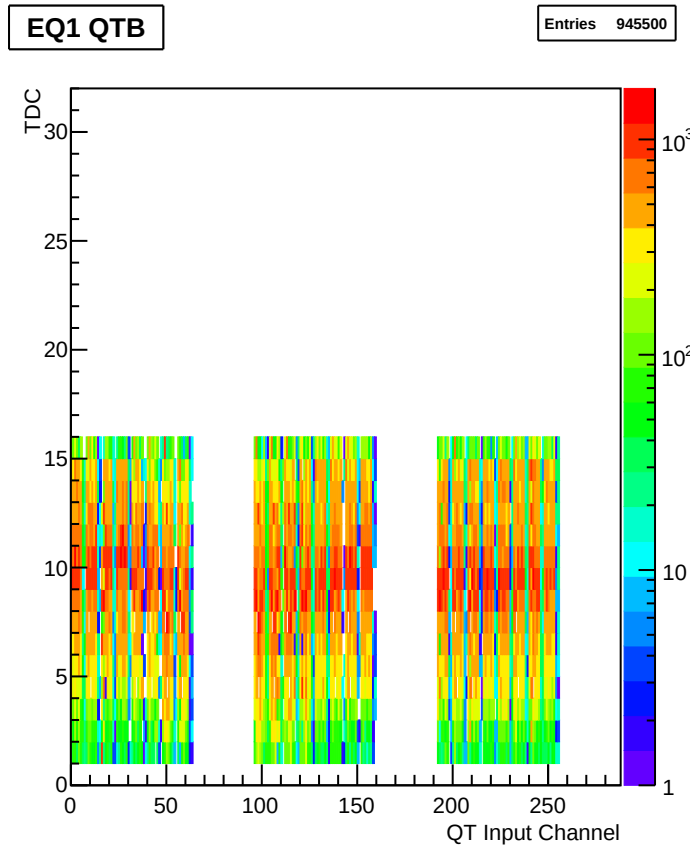

BBQ-VP001 East
Entries 168416
ADC
QT Input Channel

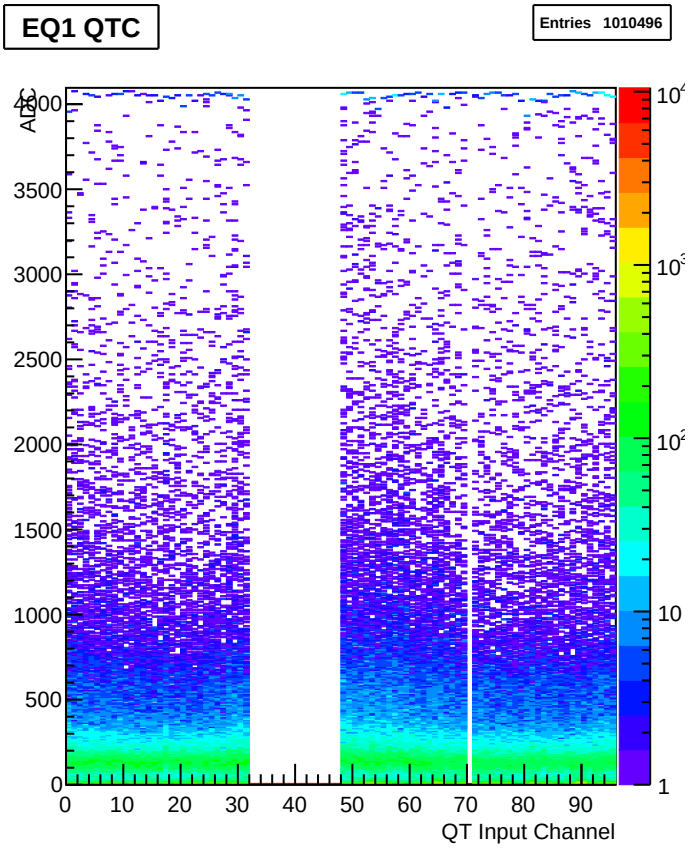

BBQ-VP001 East
Entries 168416
TADC
QT Input Channel

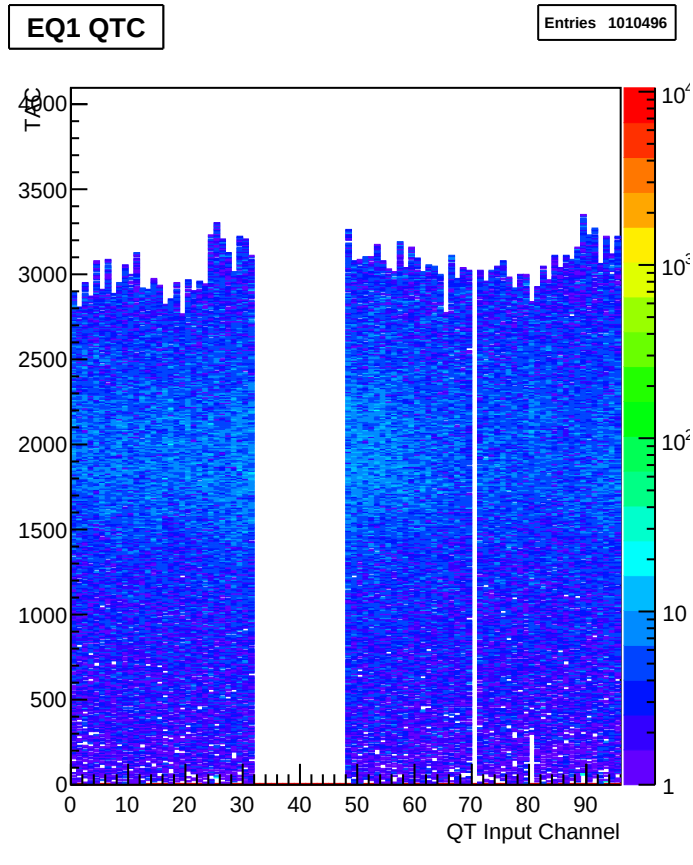

BBQ-VP002 West
Entries 168416
ADC
QT Input Channel

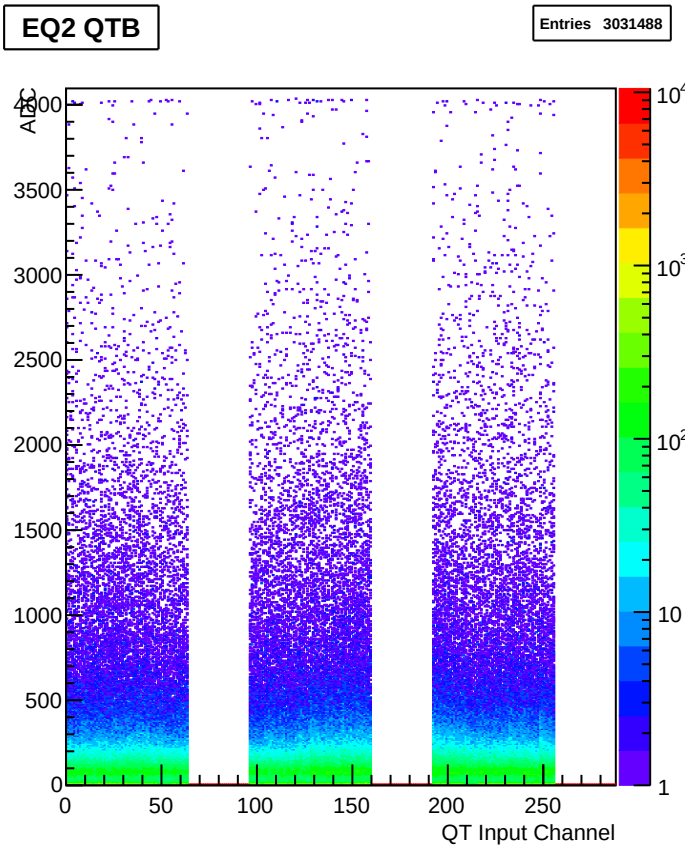

BBQ-VP002 West
Entries 168416
TADC
QT Input Channel

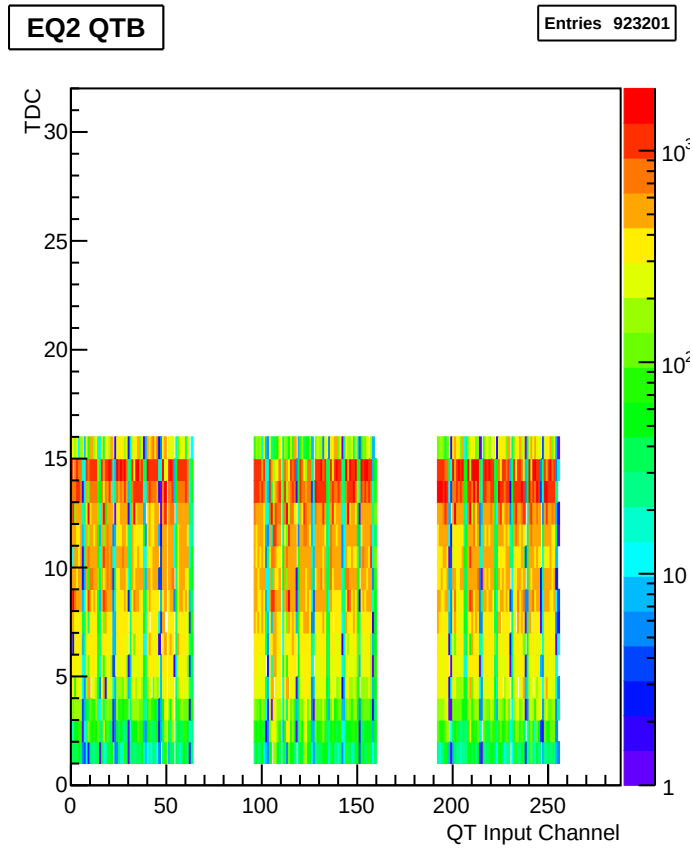

EQ1 QTB
Entries 3031488
ADC
QT Input Channel

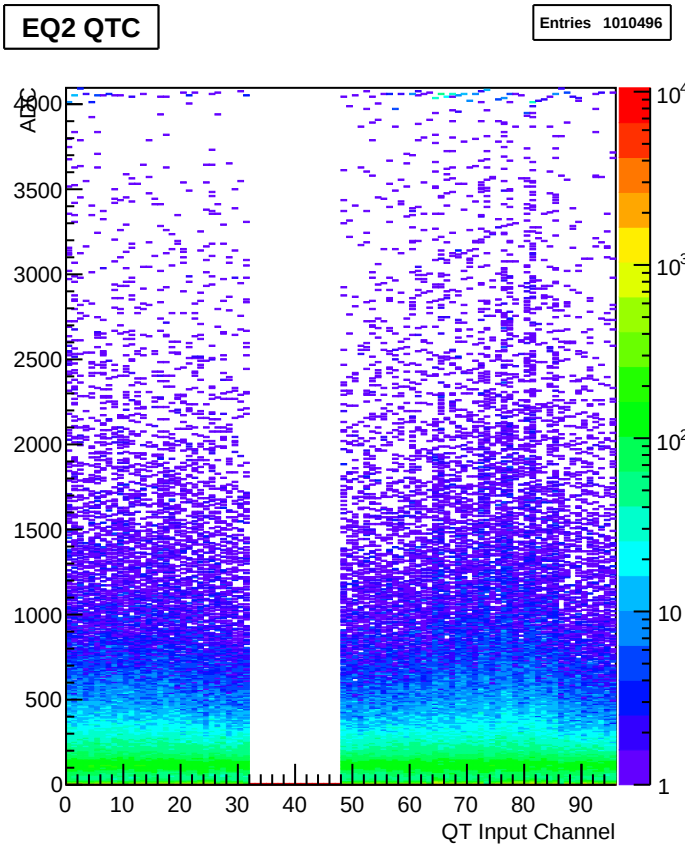

EQ1 QTB
Entries 945500
TDC
QT Input Channel

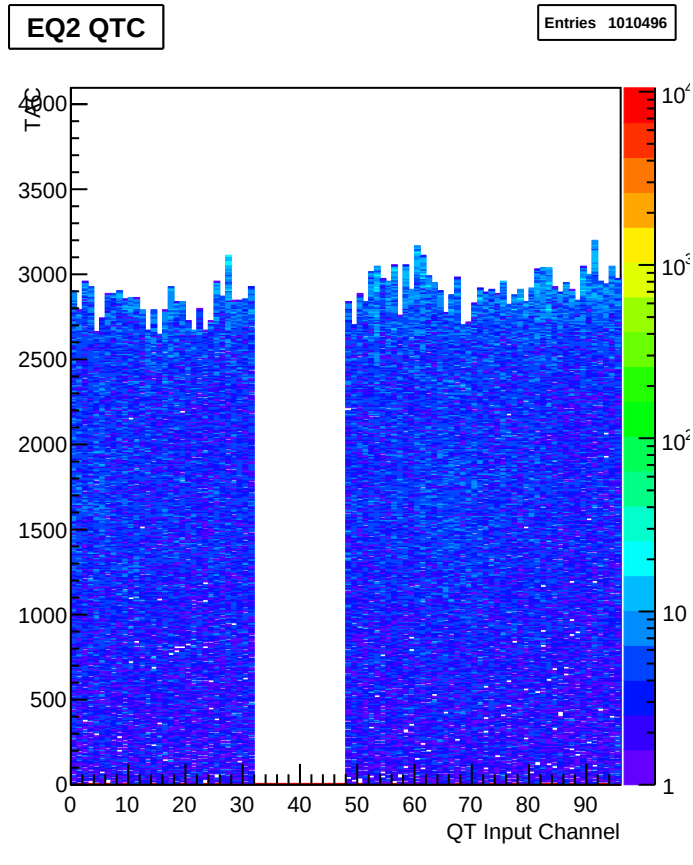

EQ1 QTC
Entries 1010496
ADC
QT Input Channel

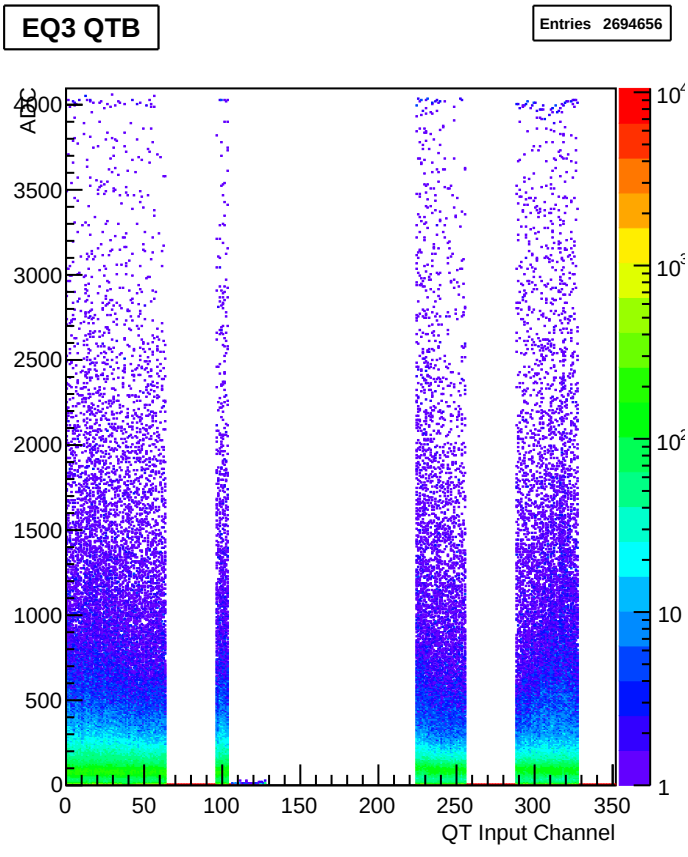

EQ1 QTC
Entries 1010496
TAC
QT Input Channel

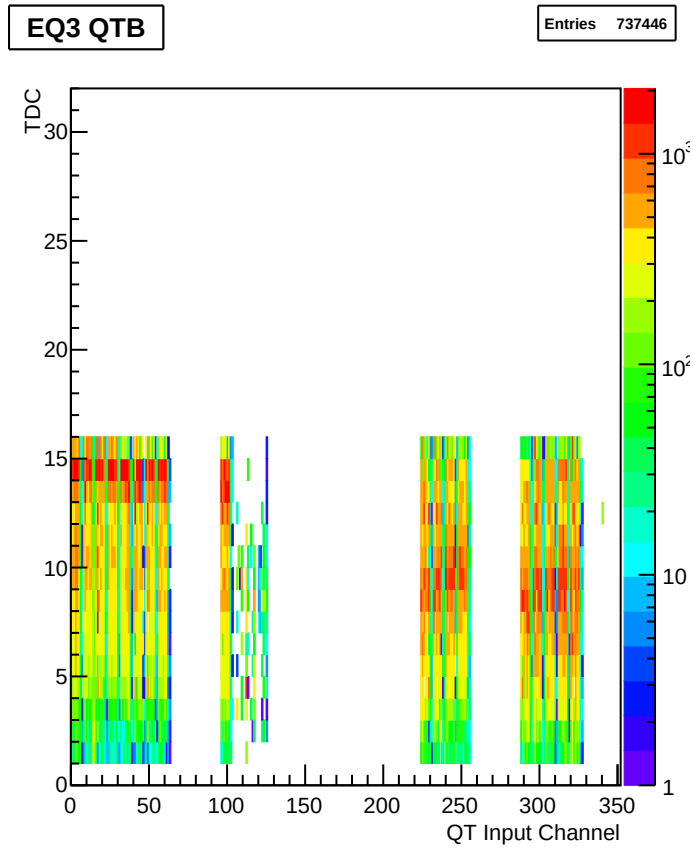

EQ2 QTB
Entries 3031488
ADC
QT Input Channel

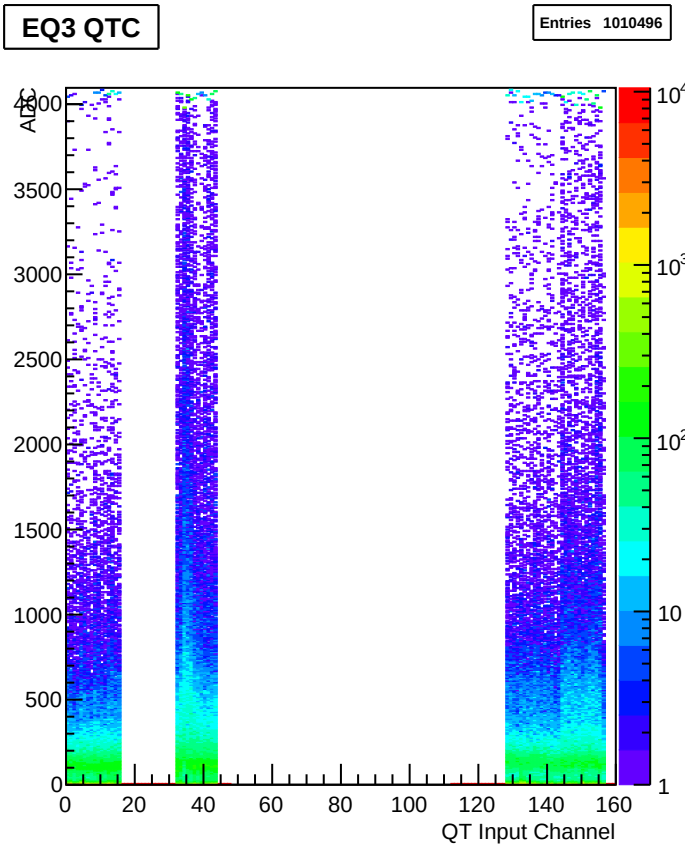

EQ2 QTB
Entries 923201
TDC
QT Input Channel

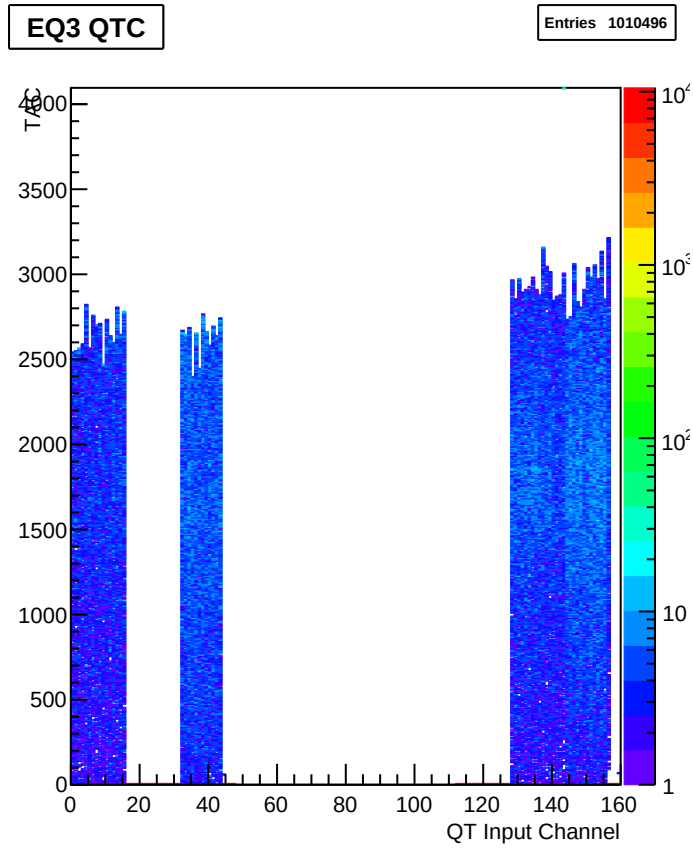

EQ2 QTC
Entries 1010496
ADC
QT Input Channel

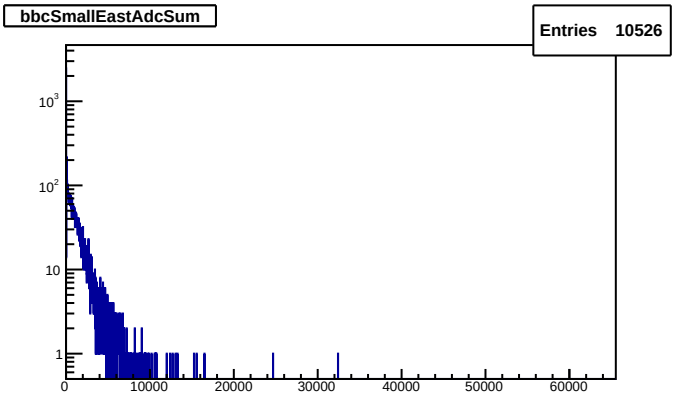

EQ2 QTC
Entries 1010496
TADC
QT Input Channel

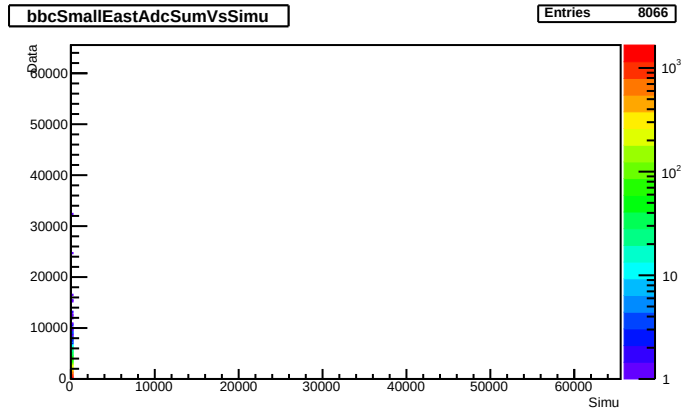

EQ3 QTB
Entries 2694656
ADC
QT Input Channel

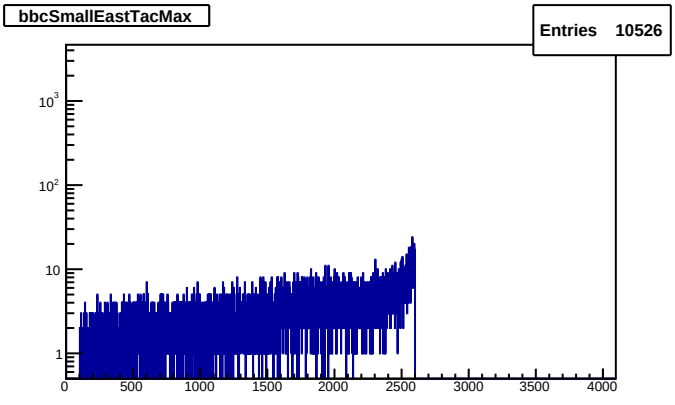

EQ3 QTB
Entries 737446
TDC
QT Input Channel

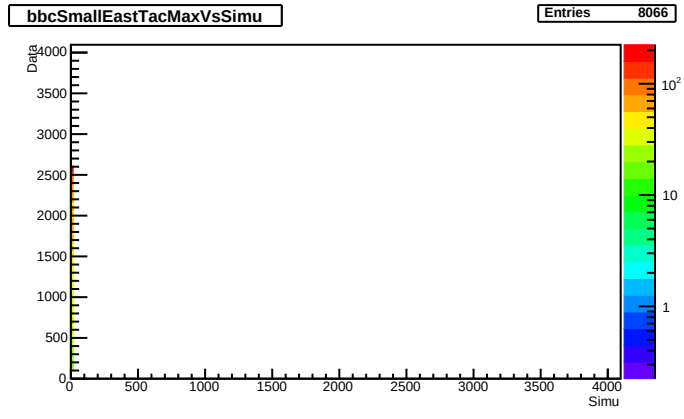

EQ3 QTC
Entries 1010496
ADC
QT Input Channel

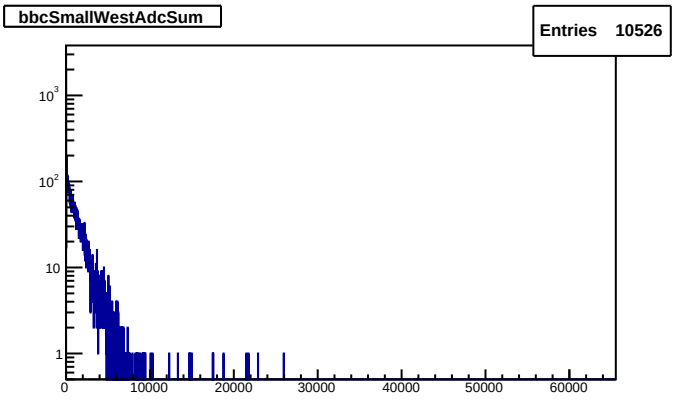

EQ3 QTC
Entries 1010496
TADC
QT Input Channel

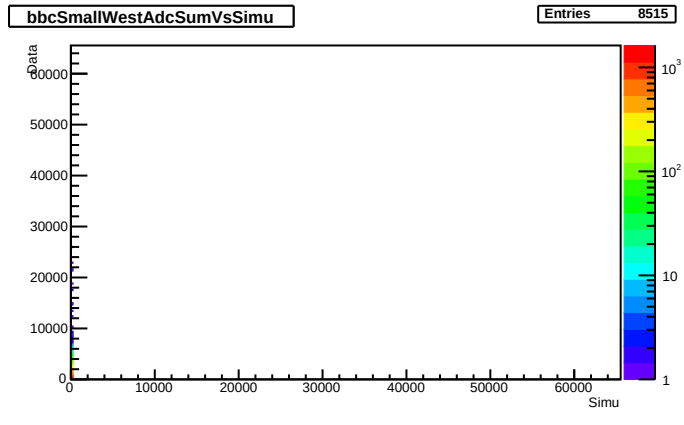

bbcSmallEastAdcSum
Entries 10526

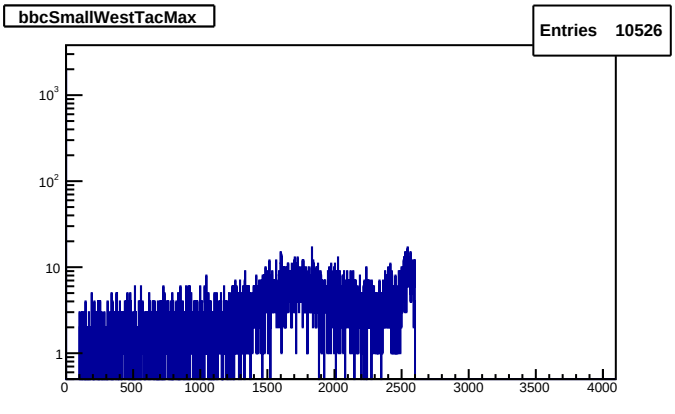

bbcSmallEastAdcSumVsSimu
Entries 8066
Data
Simu

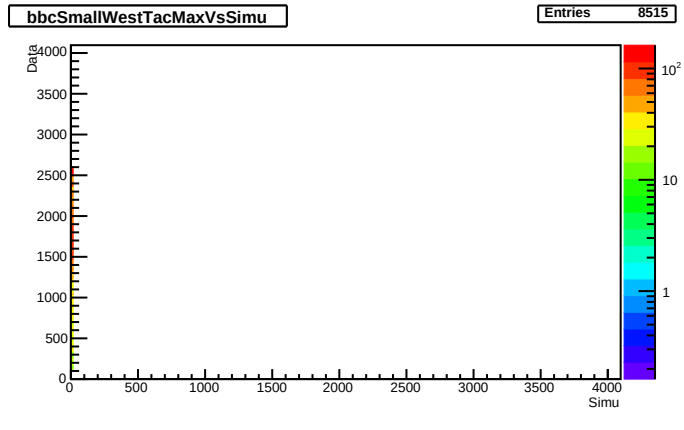

bbcSmallEastTacMax
Entries 10526

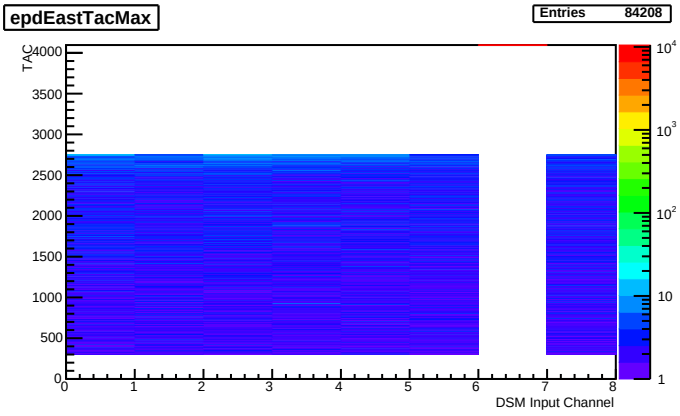

bbcSmallEastTacMaxVsSimu
Entries 8066
Data
Simu

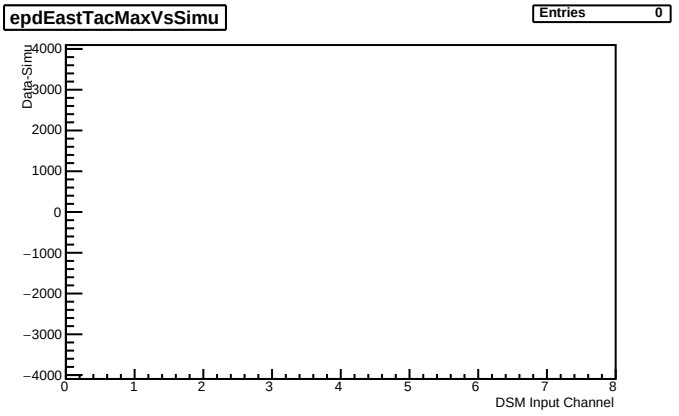

bbcSmallWestAdcSum
Entries 10526

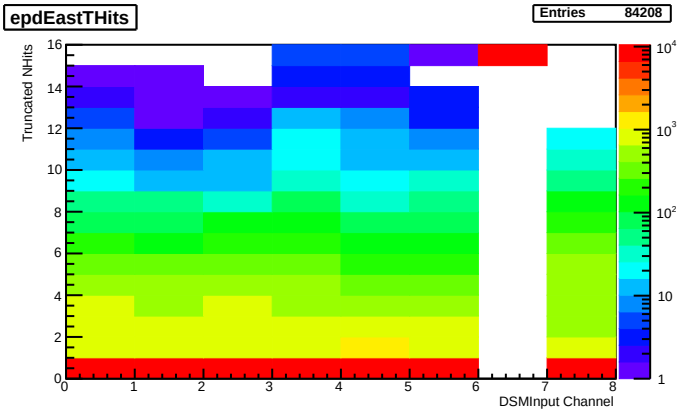

bbcSmallWestAdcSumVsSimu
Entries 8515
Data
Simu

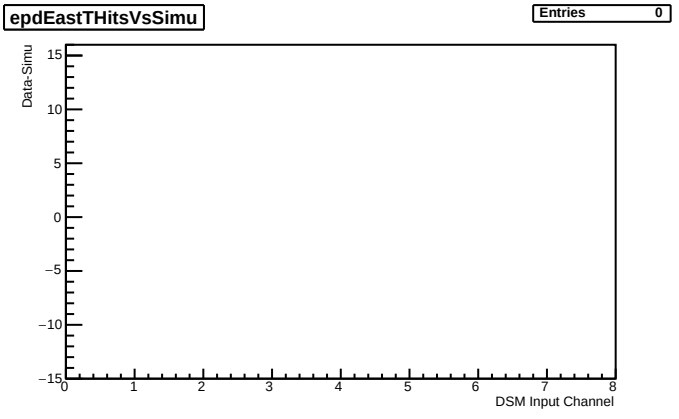

bbcSmallWestTacMax
Entries 10526

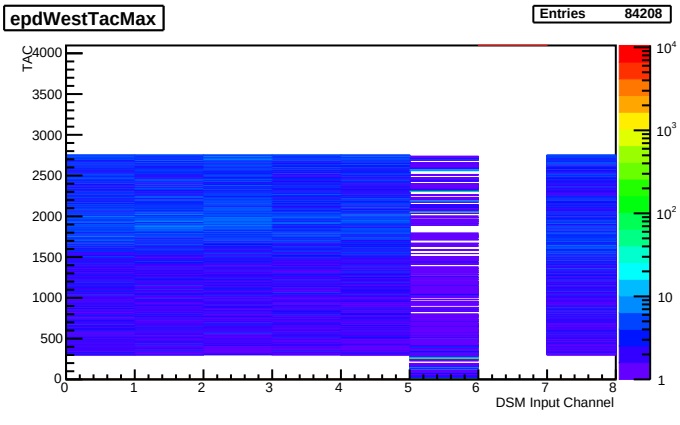

bbcSmallWestTacMaxVsSimu
Entries 8515
Data
Simu

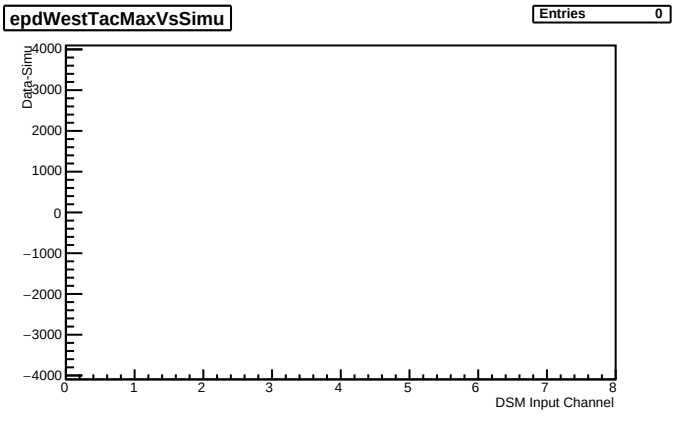

epdEastTacMax
Entries 84208
TAC
DSM Input Channel

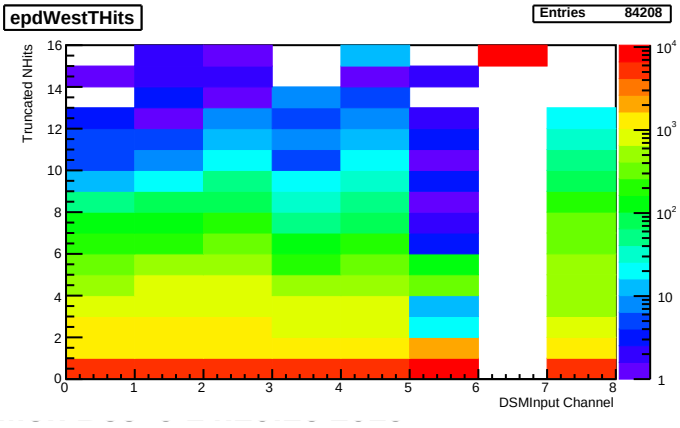

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

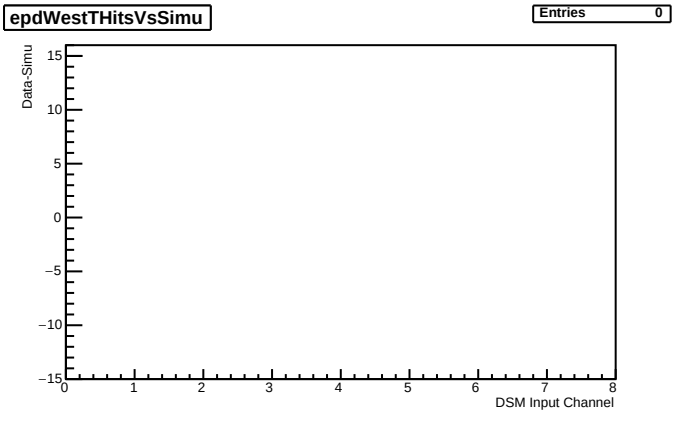

epdEastTHits
Entries 84208
Truncated NHits
DSMInput Channel

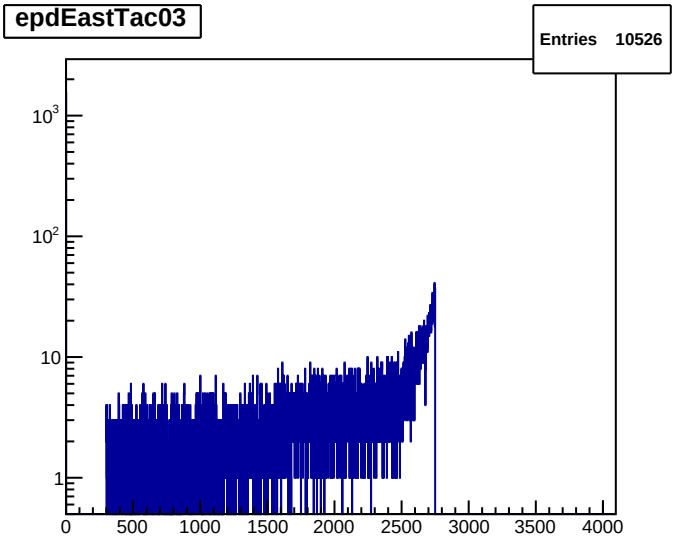

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

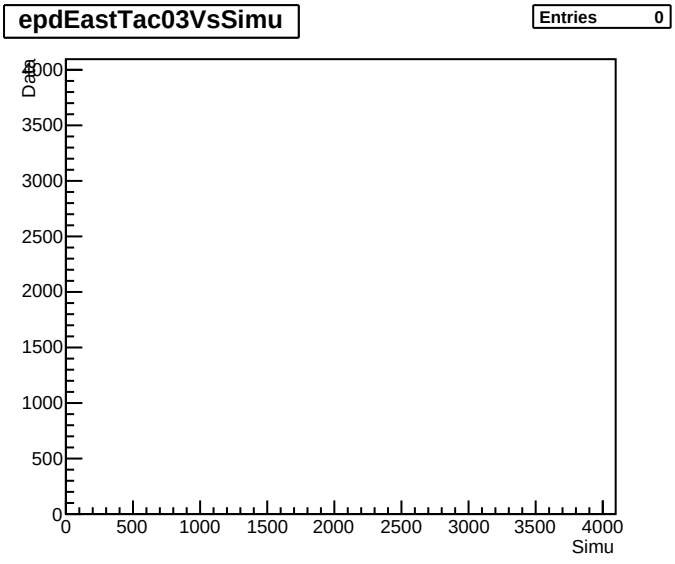

epdWestTacMax
Entries 84208
TAC
DSM Input Channel

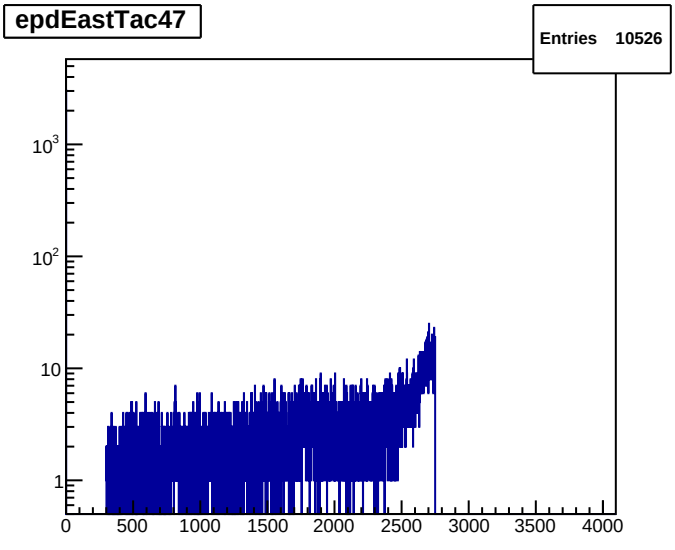

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

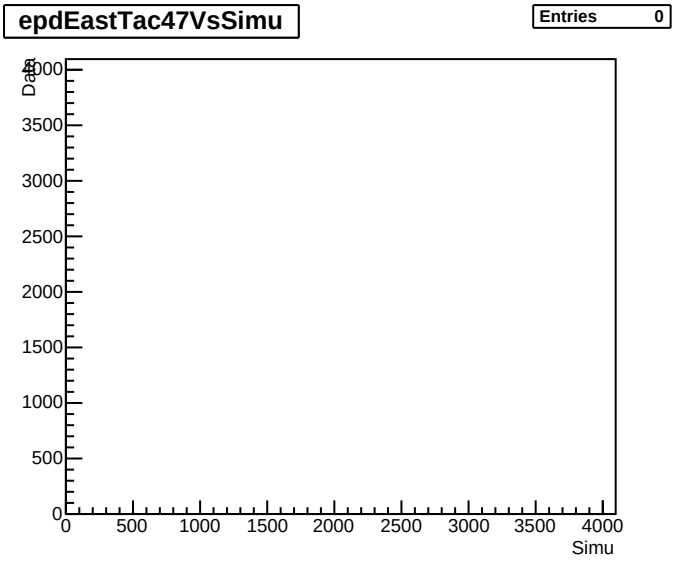

epdWestTHits
Entries 84208
Truncated NHits
DSMInput Channel

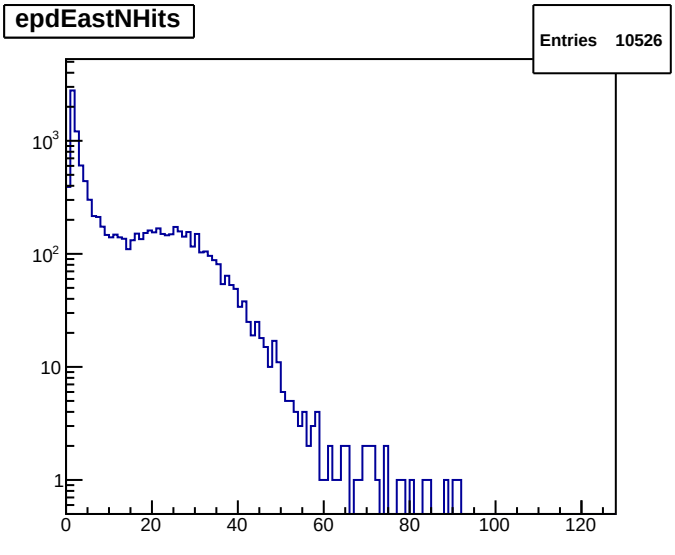

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

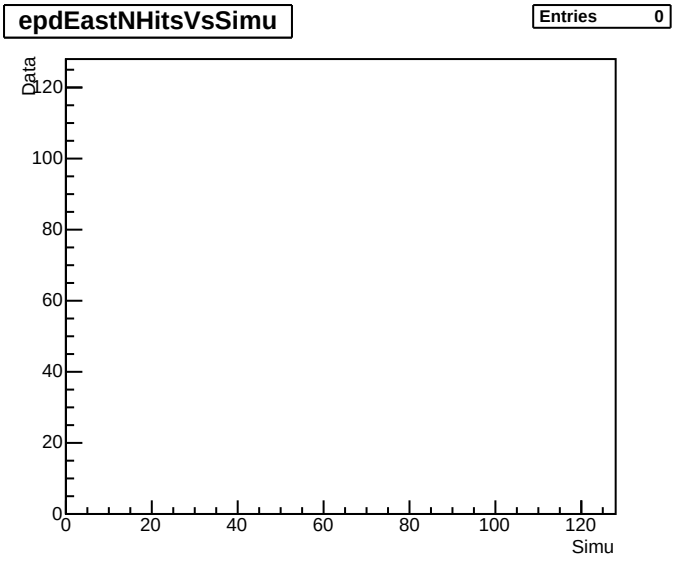

epdEastTac03
Entries 10526

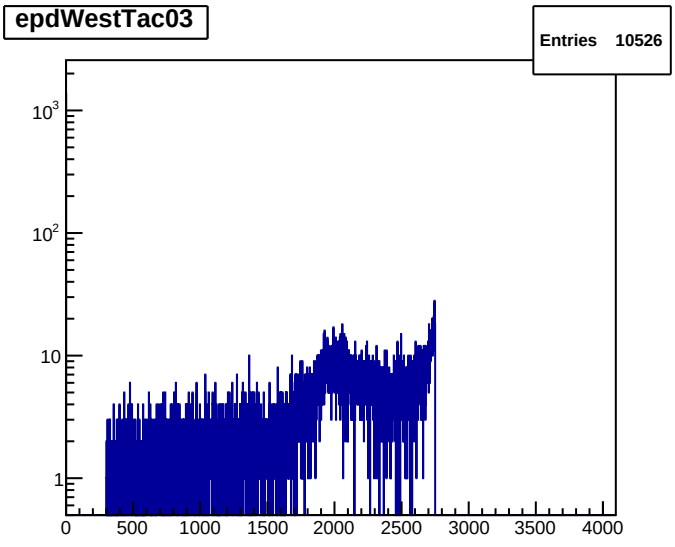

epdEastTac03VsSimu
Entries 0
Data
Simu

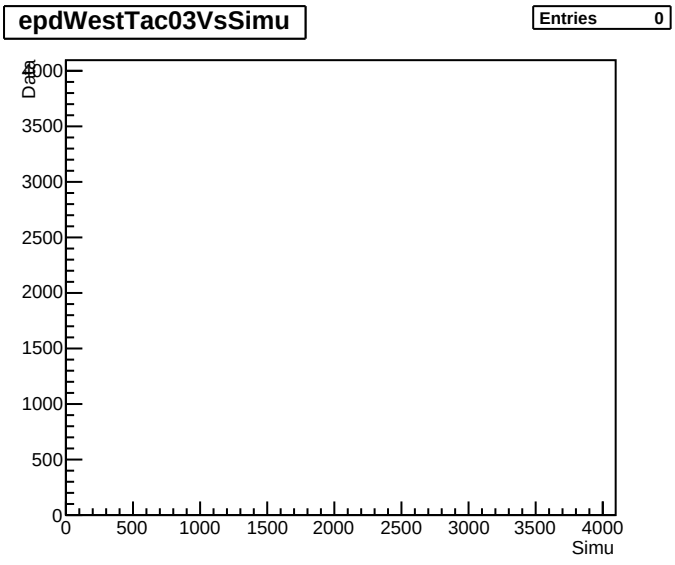

epdEastTac47
Entries 10526

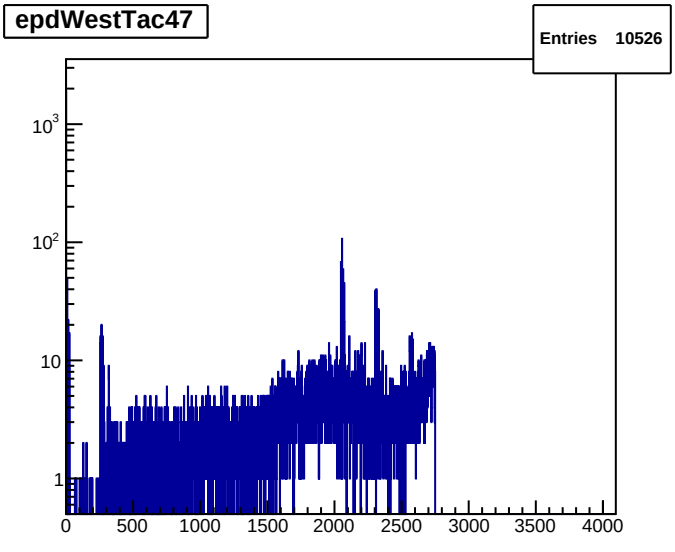

epdEastTac47VsSimu
Entries 0
Data
Simu

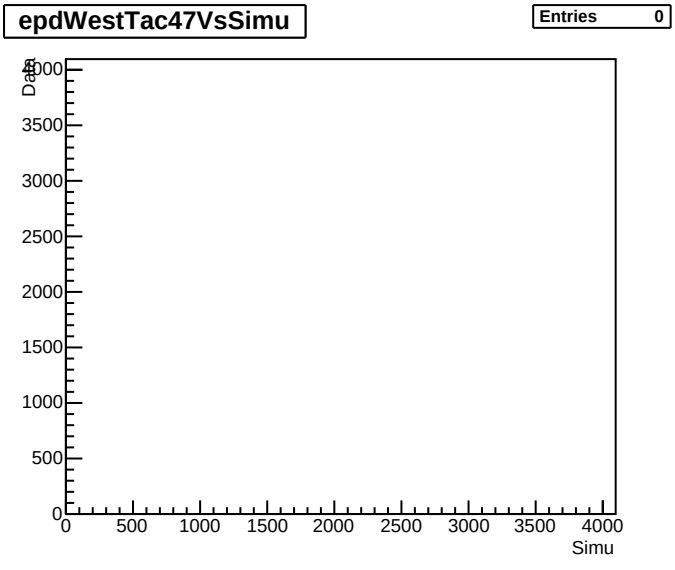

epdEastNHits
Entries 10526

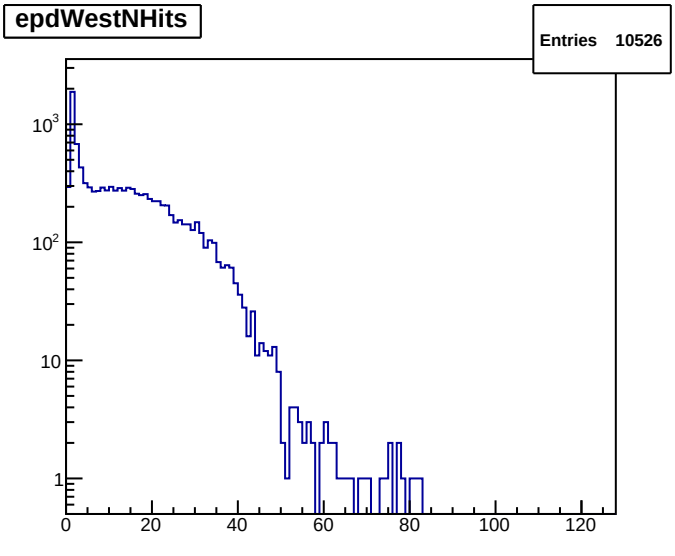

epdEastNHitsVsSimu
Entries 0
Data
Simu

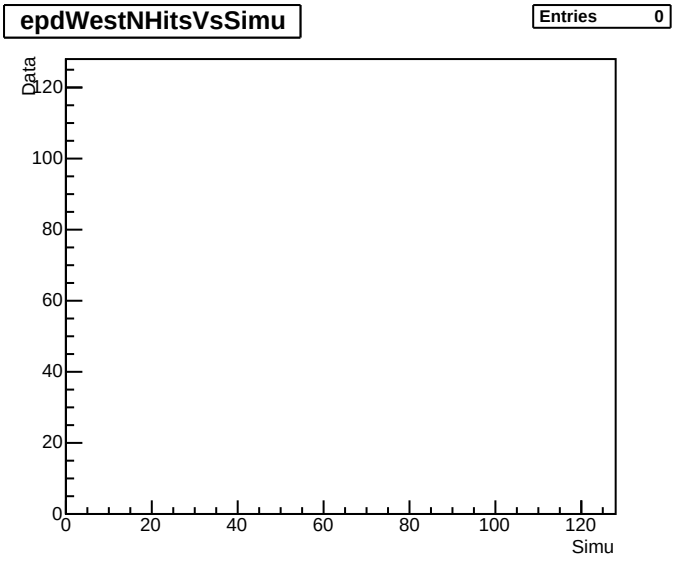

epdWestTac03
Entries 10526

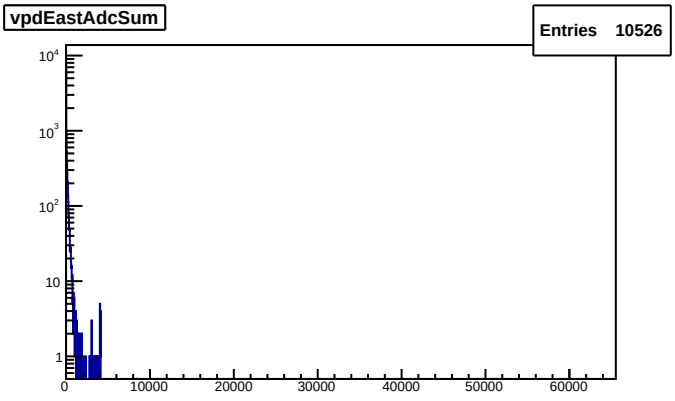

epdWestTac03VsSimu
Entries 0
Data
Simu

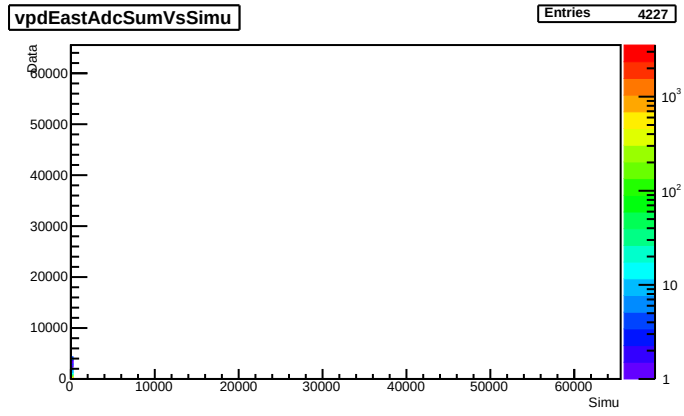

epdWestTac47
Entries 10526

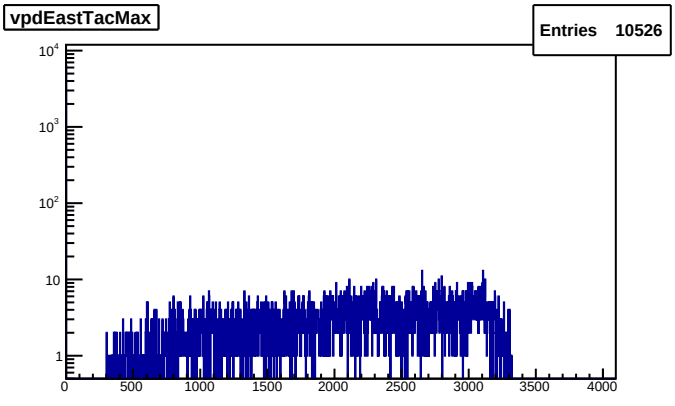

epdWestTac47VsSimu
Entries 0
Data
Simu

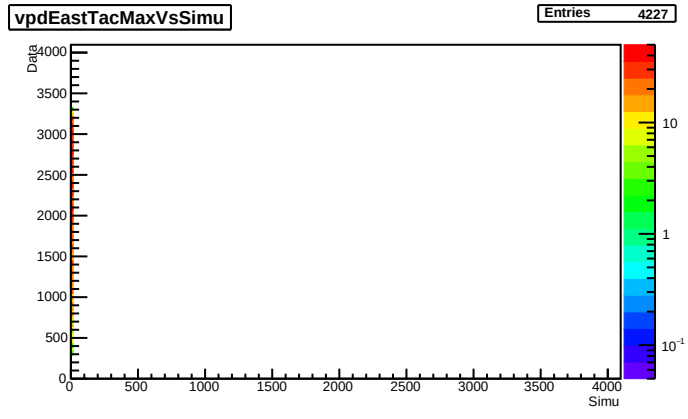

epdWestNHits
Entries 10526

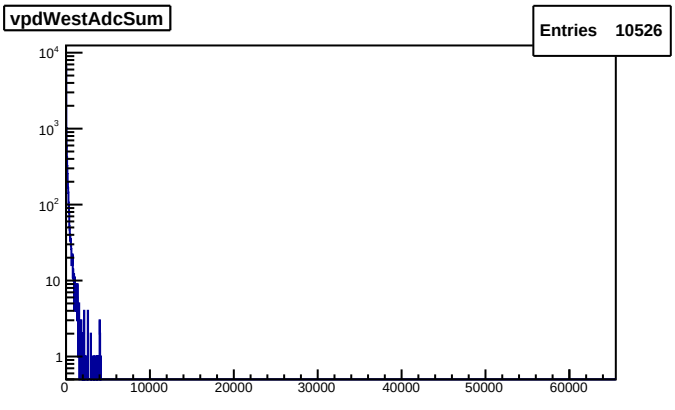

epdWestNHitsVsSimu
Entries 0
Data
Simu

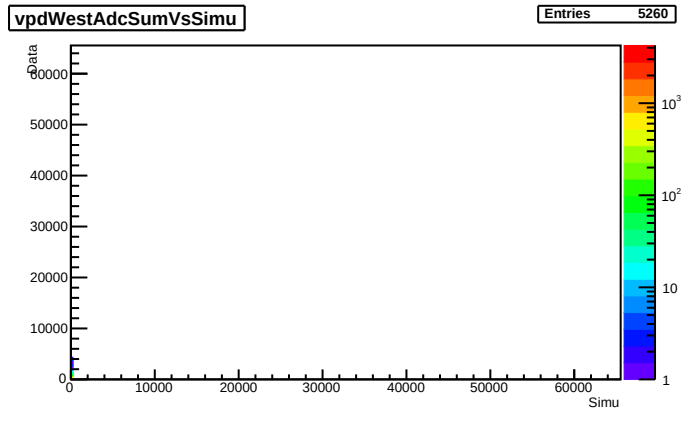

vpdEastAdcSum
Entries 10526

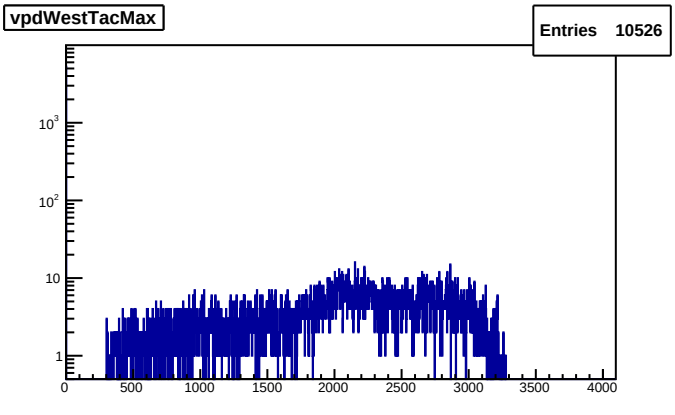

vpdEastAdcSumVsSimu
Entries 4227
Data
Simu

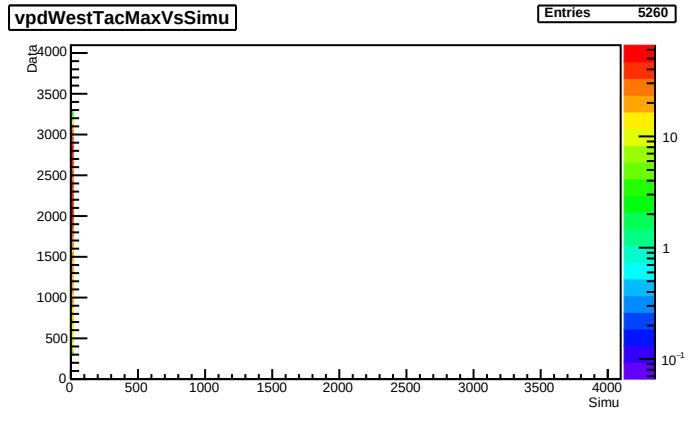

vpdEastTacMax
Entries 10526

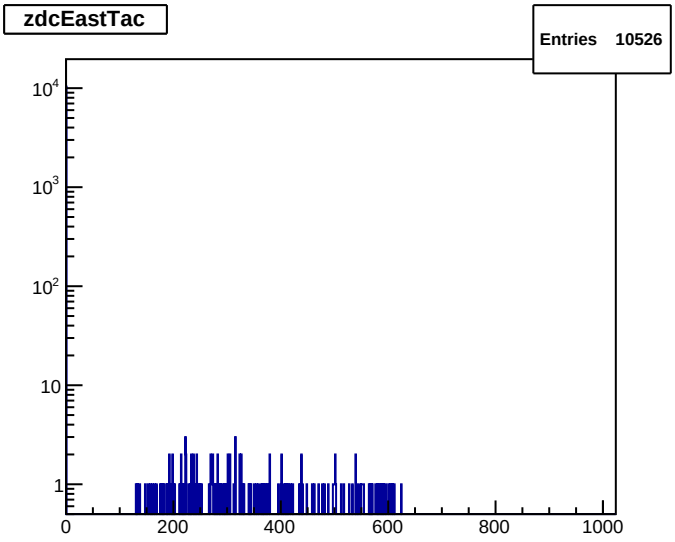

vpdEastTacMaxVsSimu
Entries 4227
Data
Simu

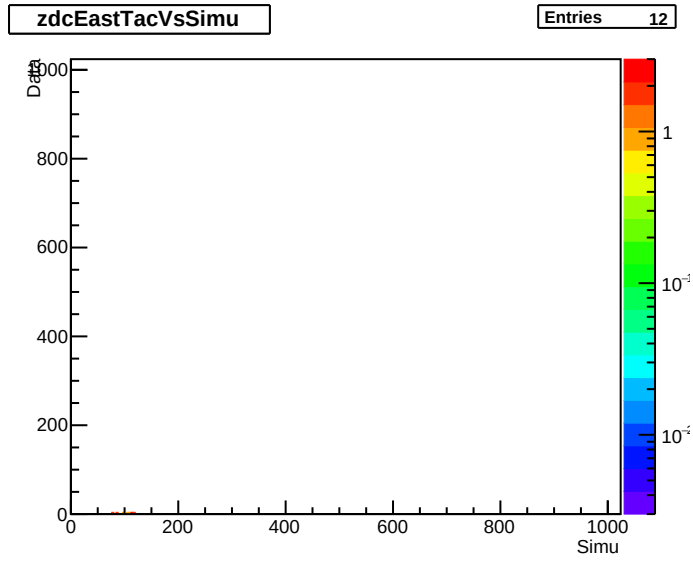

vpdWestAdcSum
Entries 10526

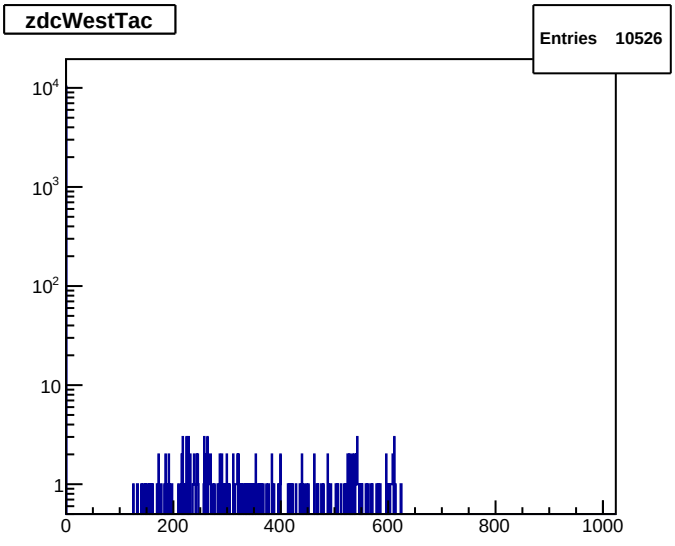

vpdWestAdcSumVsSimu
Entries 5260
Data
Simu

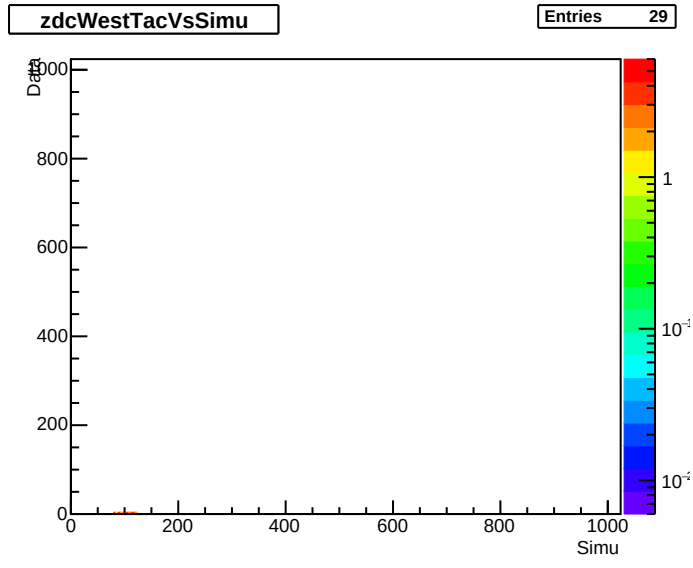

vpdWestTacMax
Entries 10526

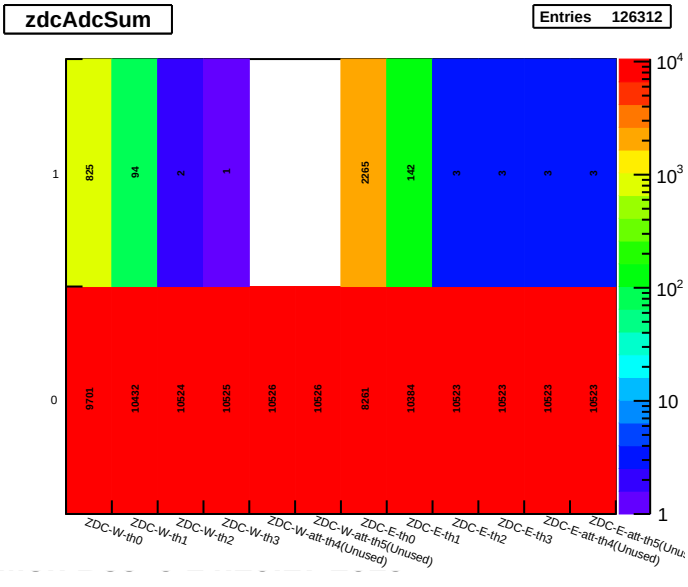

vpdWestTacMaxVsSimu
Entries 5260
Data
Simu

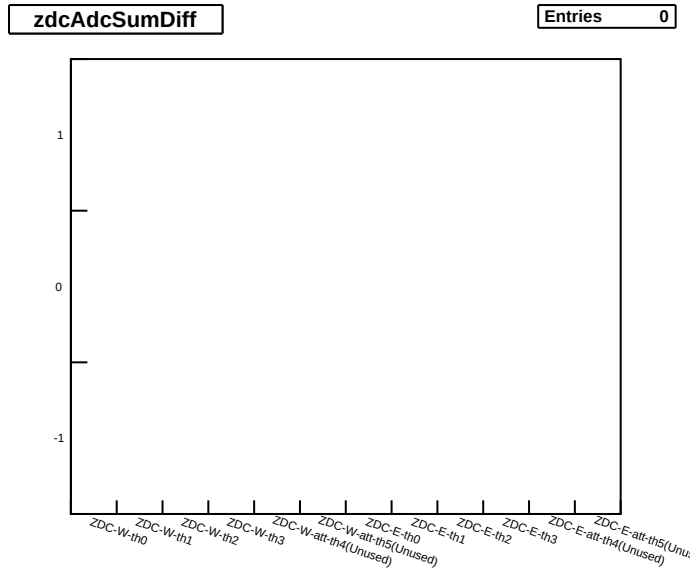

zdcEastTac
Entries 10526

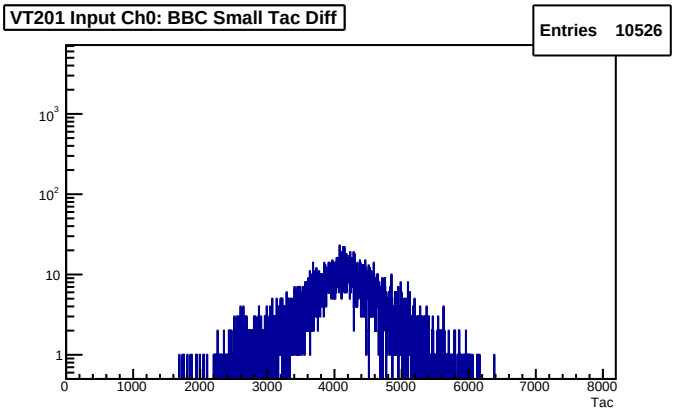

zdcEastTacVsSimu
Entries 12
Data
Simu

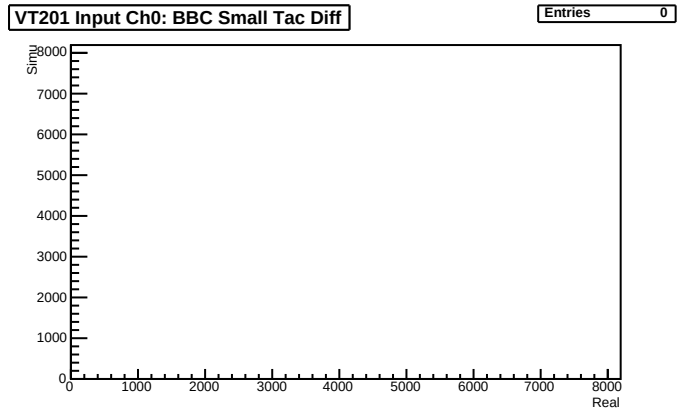

zdcWestTac
Entries 10526

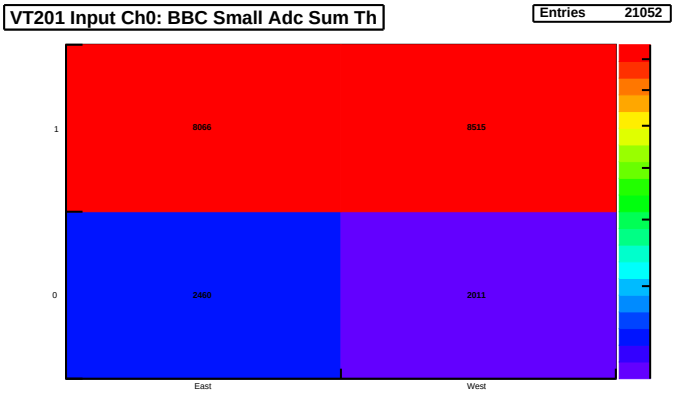

zdcWestTacVsSimu
Entries 29
Data
Simu

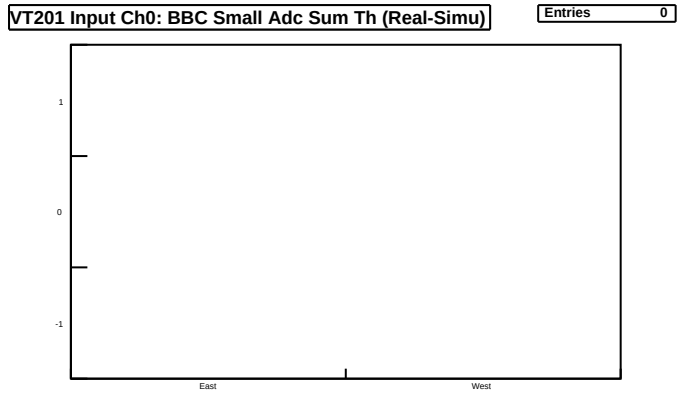

zdcAdcSum
Entries 126312
825
94
2
1
2265
142
3
3
3
3
9701
10432
10524
10525
10526
10526
8261
10384
10523
10523
10523
10523
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

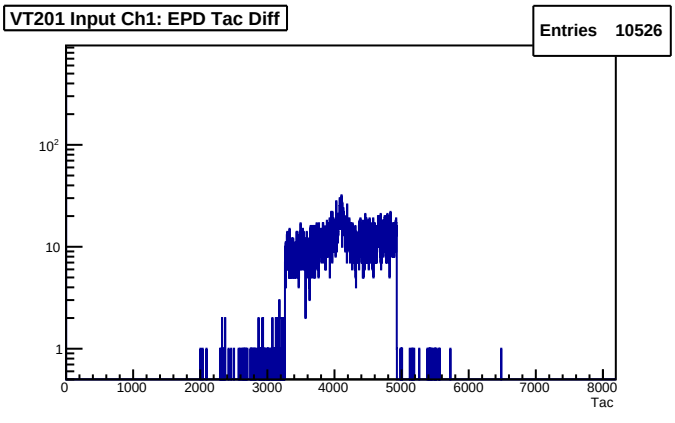

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

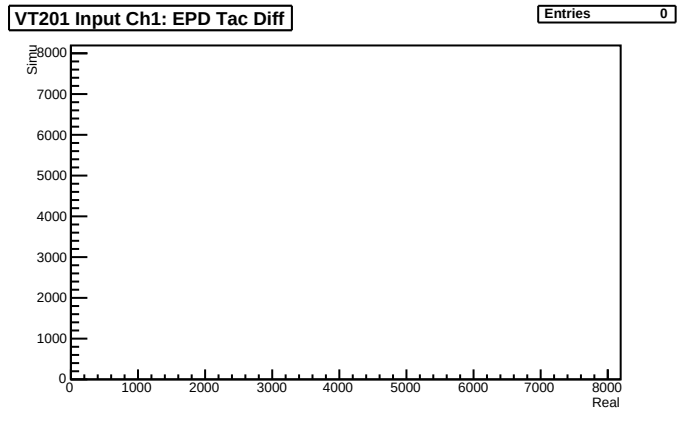

VT201 Input Ch0: BBC Small Tac Diff
Entries 10526
Tac

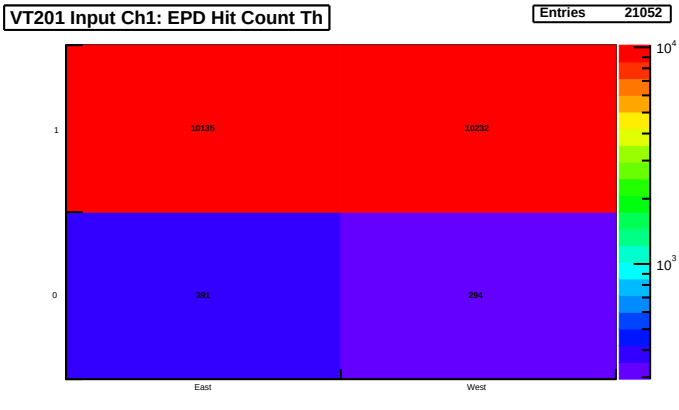

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

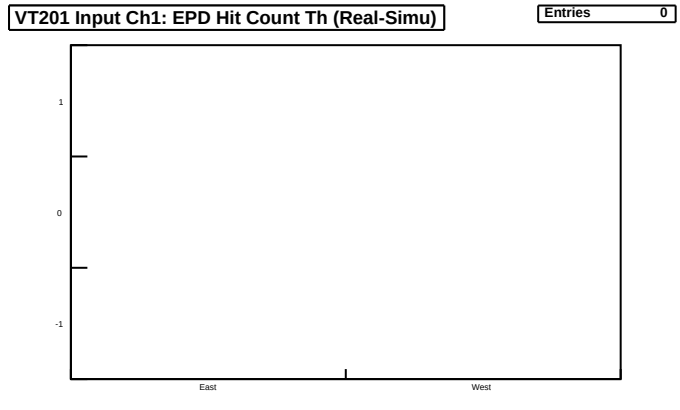

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 21052
8066
8515
2460
2011
East
West

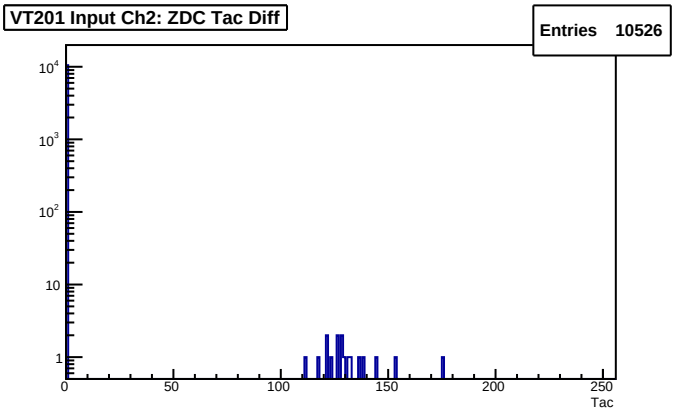

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

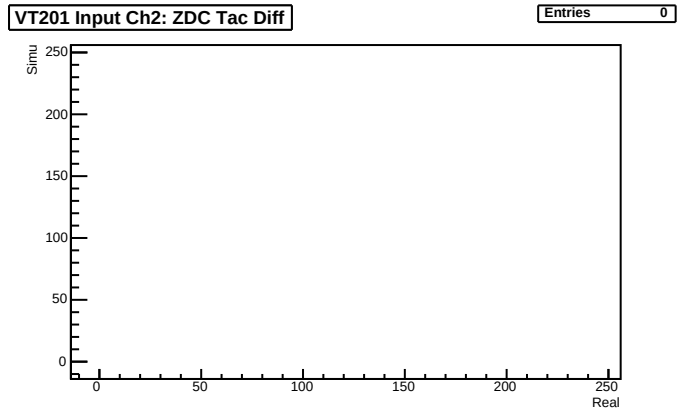

VT201 Input Ch1: EPD Tac Diff
Entries 10526
Tac

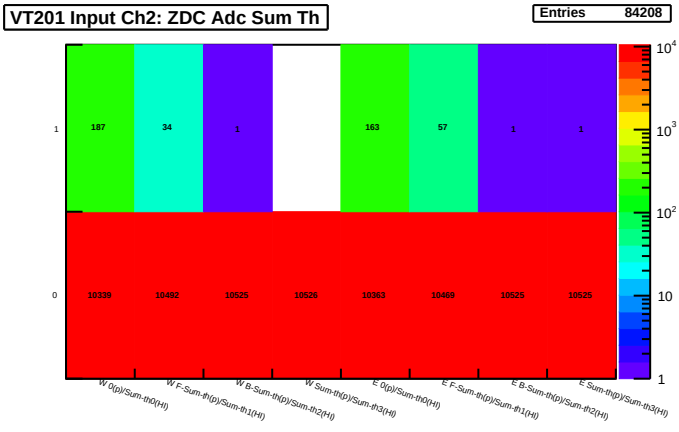

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

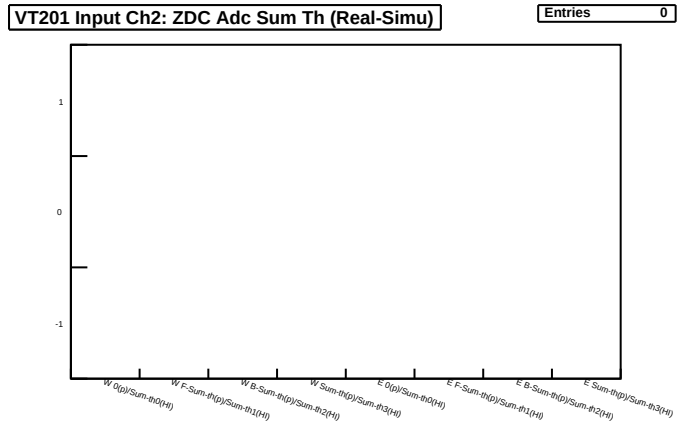

VT201 Input Ch1: EPD Hit Count Th
Entries 21052
10135
10232
391
294
East
West

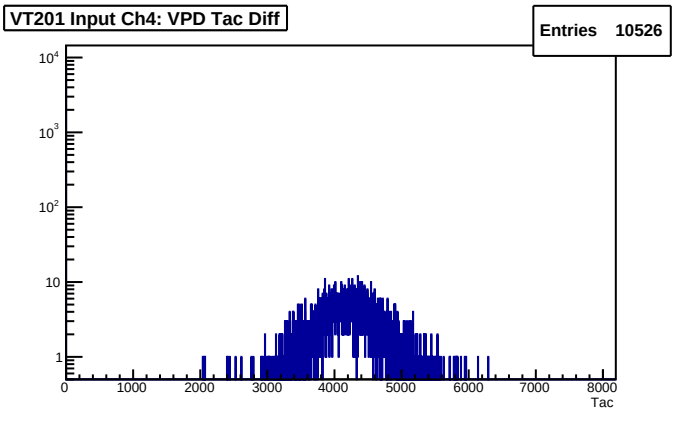

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

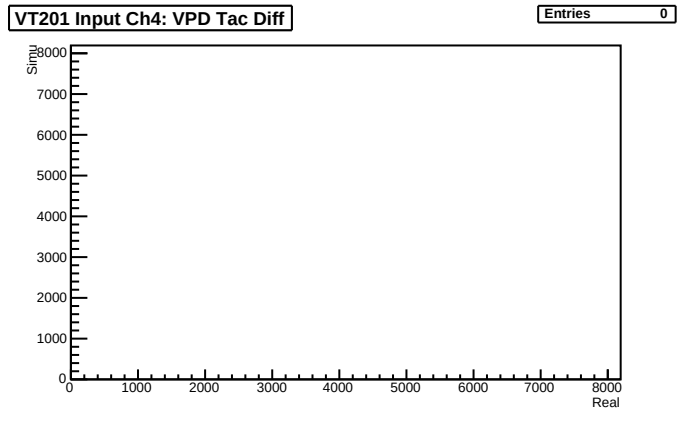

VT201 Input Ch2: ZDC Tac Diff
Entries 10526
Tac

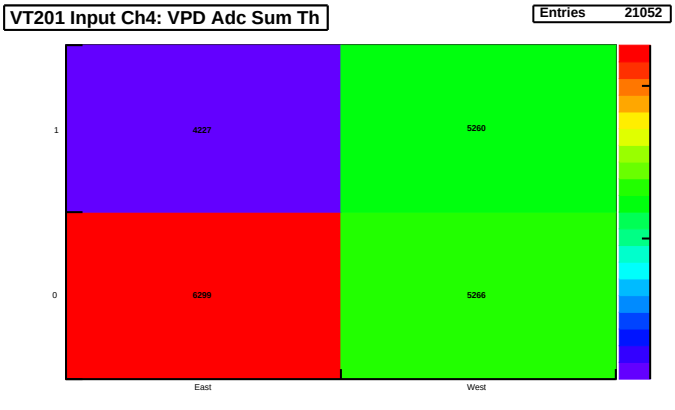

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

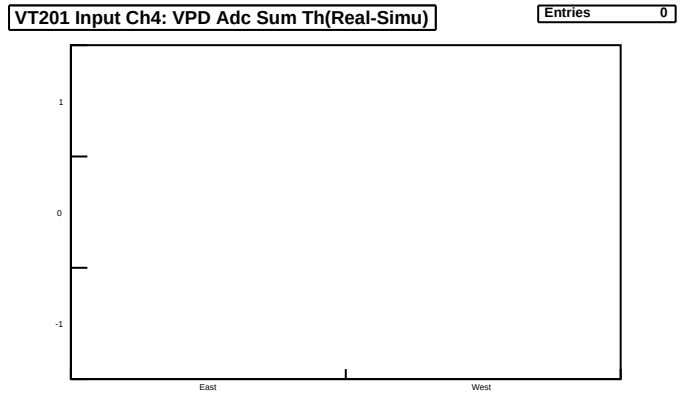

VT201 Input Ch2: ZDC Adc Sum Th
Entries 84208
187
34
1
163
57
1
1
10339
10492
10525
10526
10363
10469
10525
10525
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

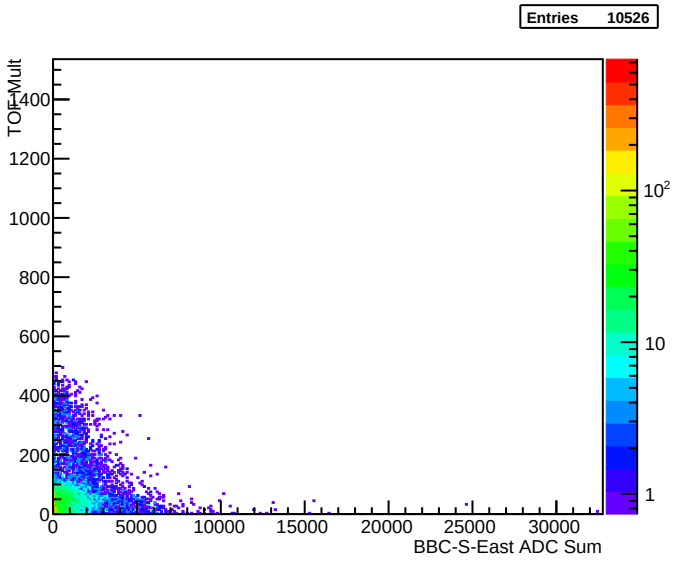

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

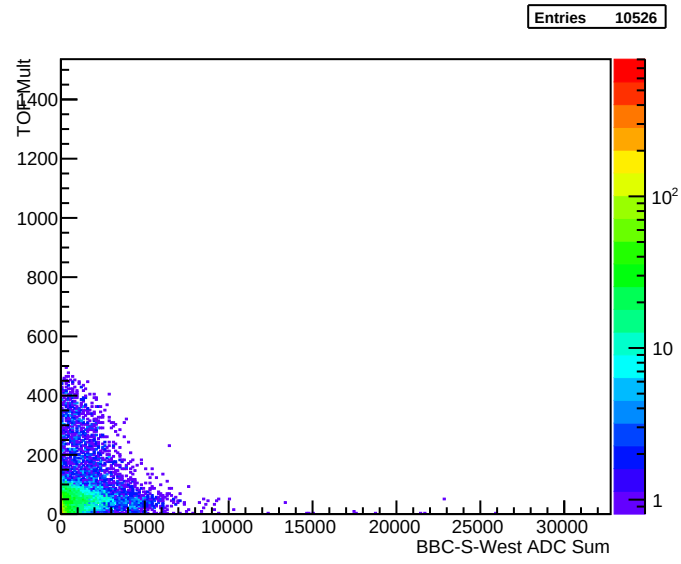

VT201 Input Ch4: VPD Tac Diff
Entries 10526
Tac

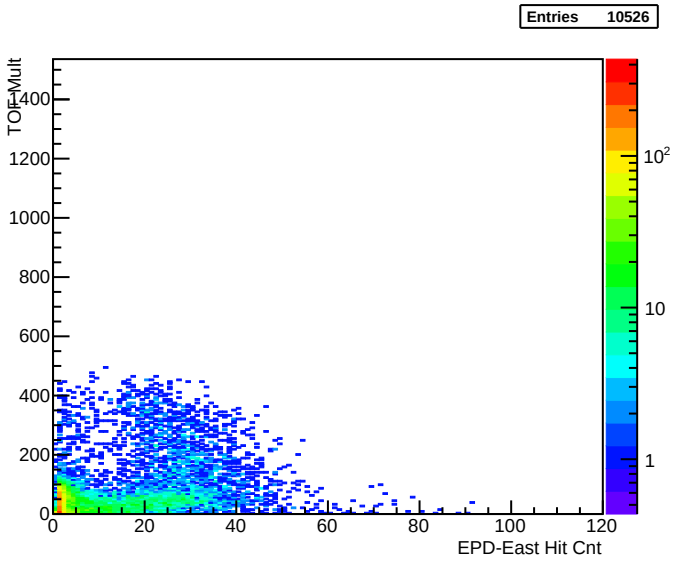

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

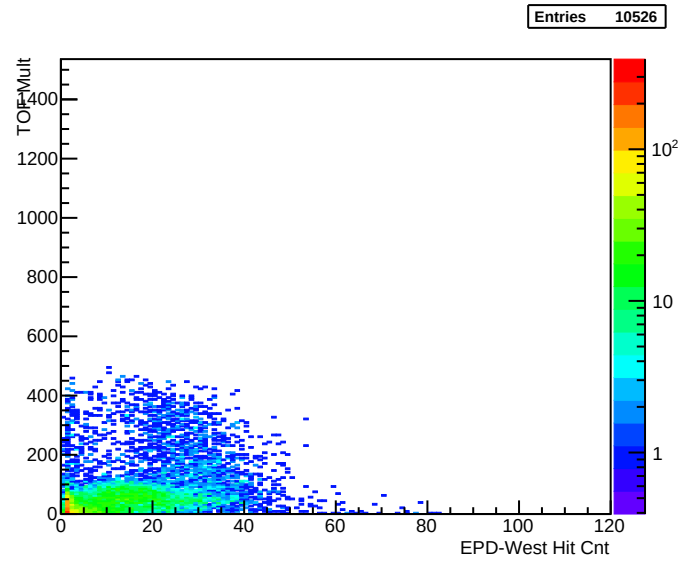

VT201 Input Ch4: VPD Adc Sum Th
Entries 21052
4227
5260
6299
5266
East
West

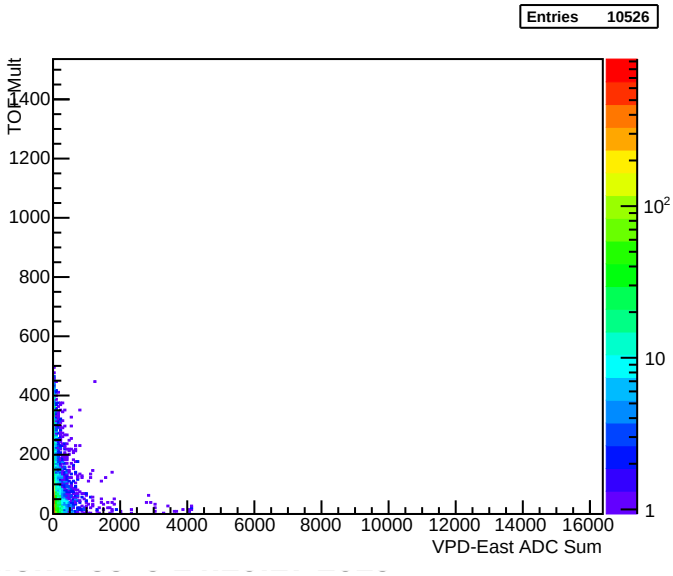

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

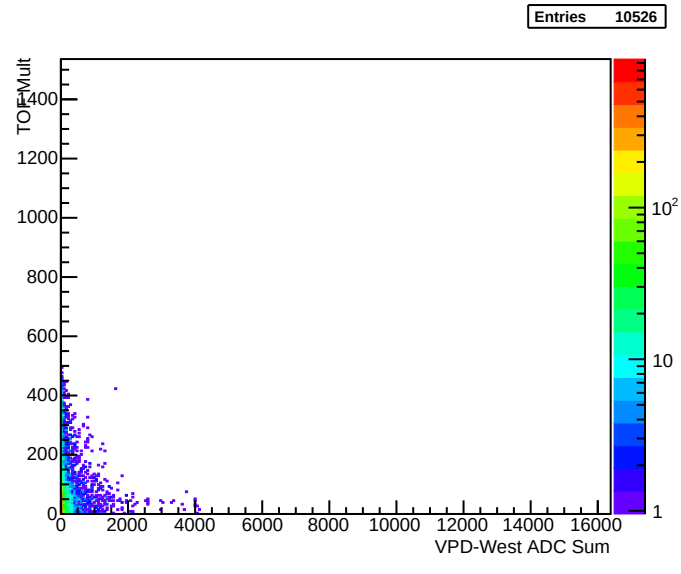

Entries 10526
TOF-Mult
BBC-S-East ADC Sum

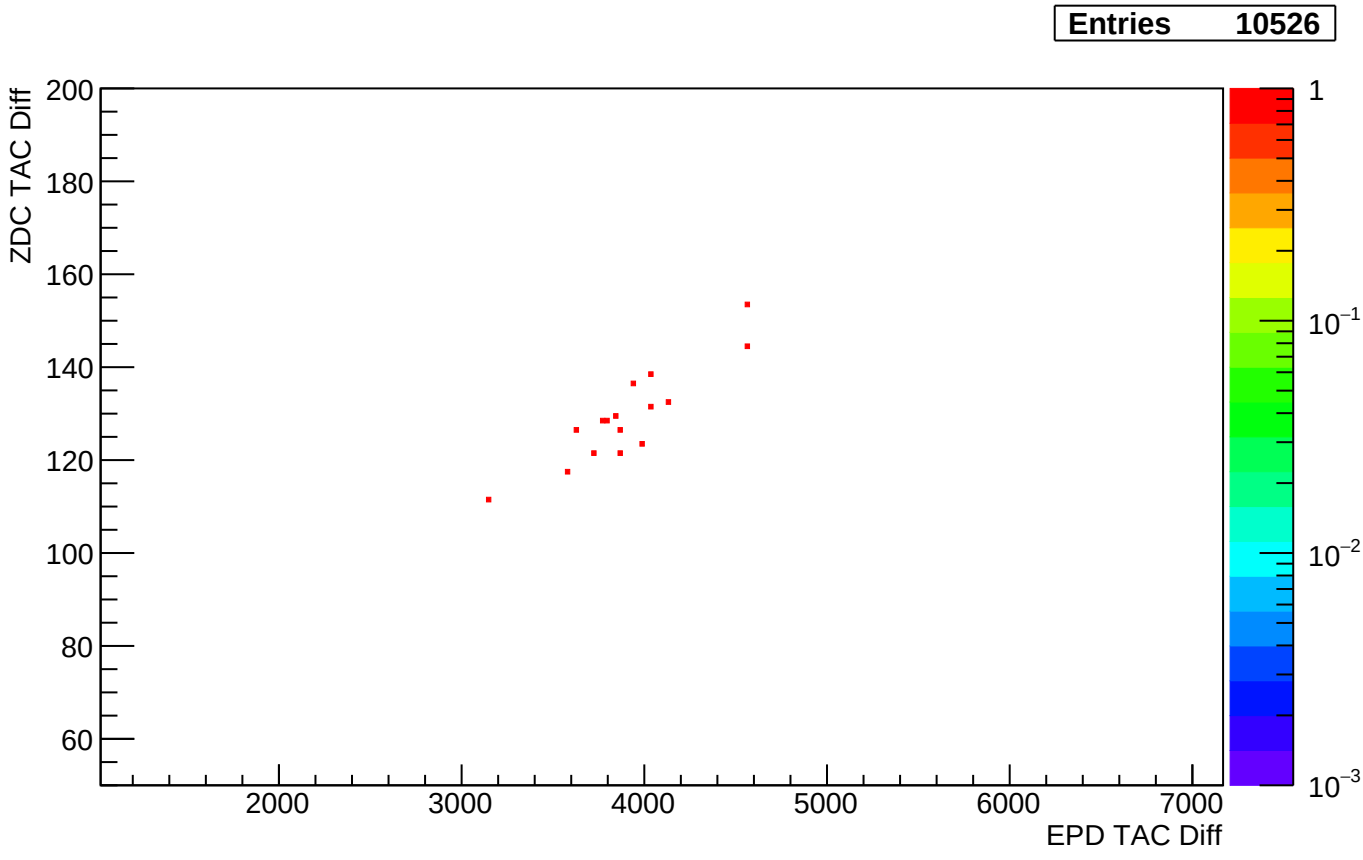

Entries 10526
TOF-Mult
BBC-S-West ADC Sum

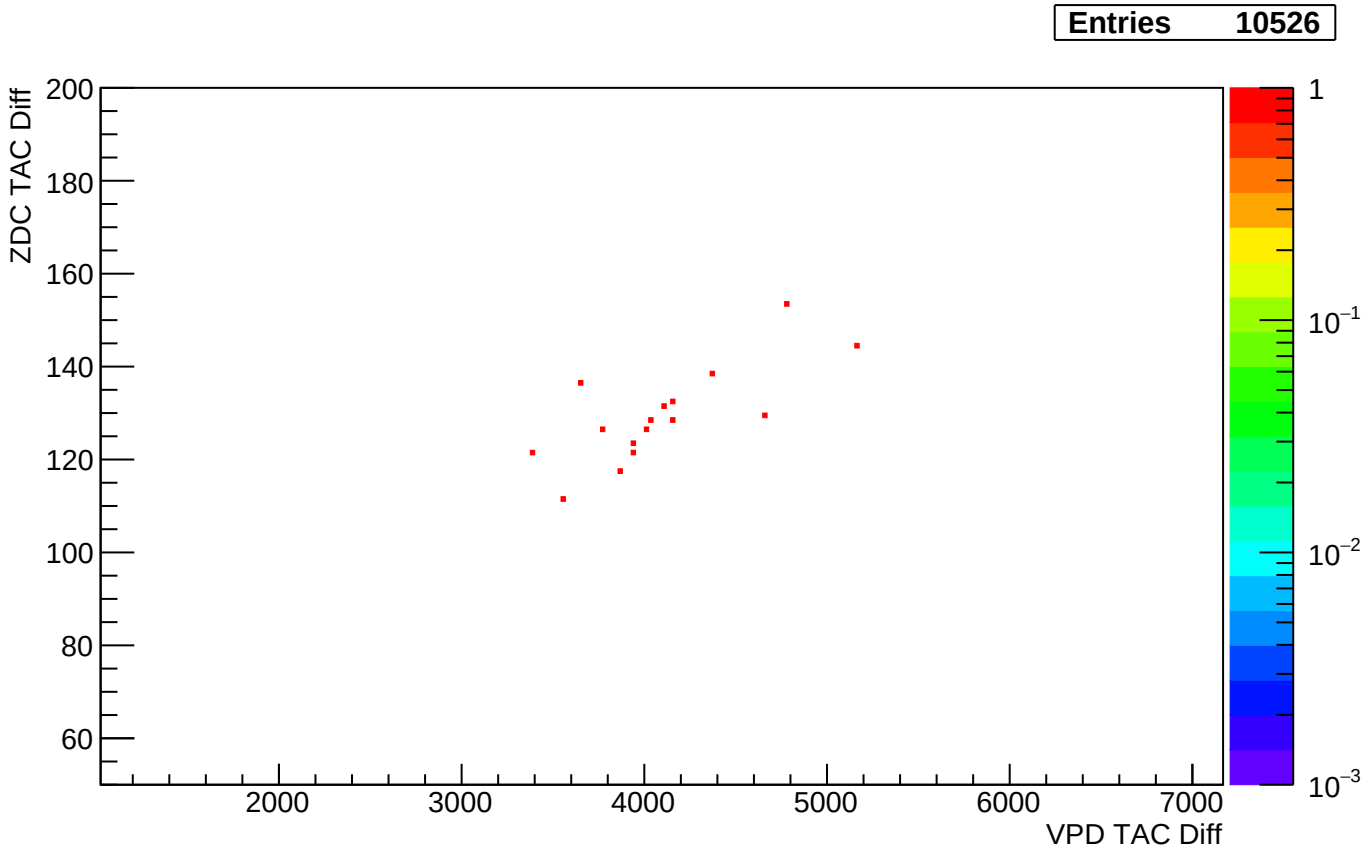

Entries 10526
TOF-Mult
EPD-East Hit Cnt

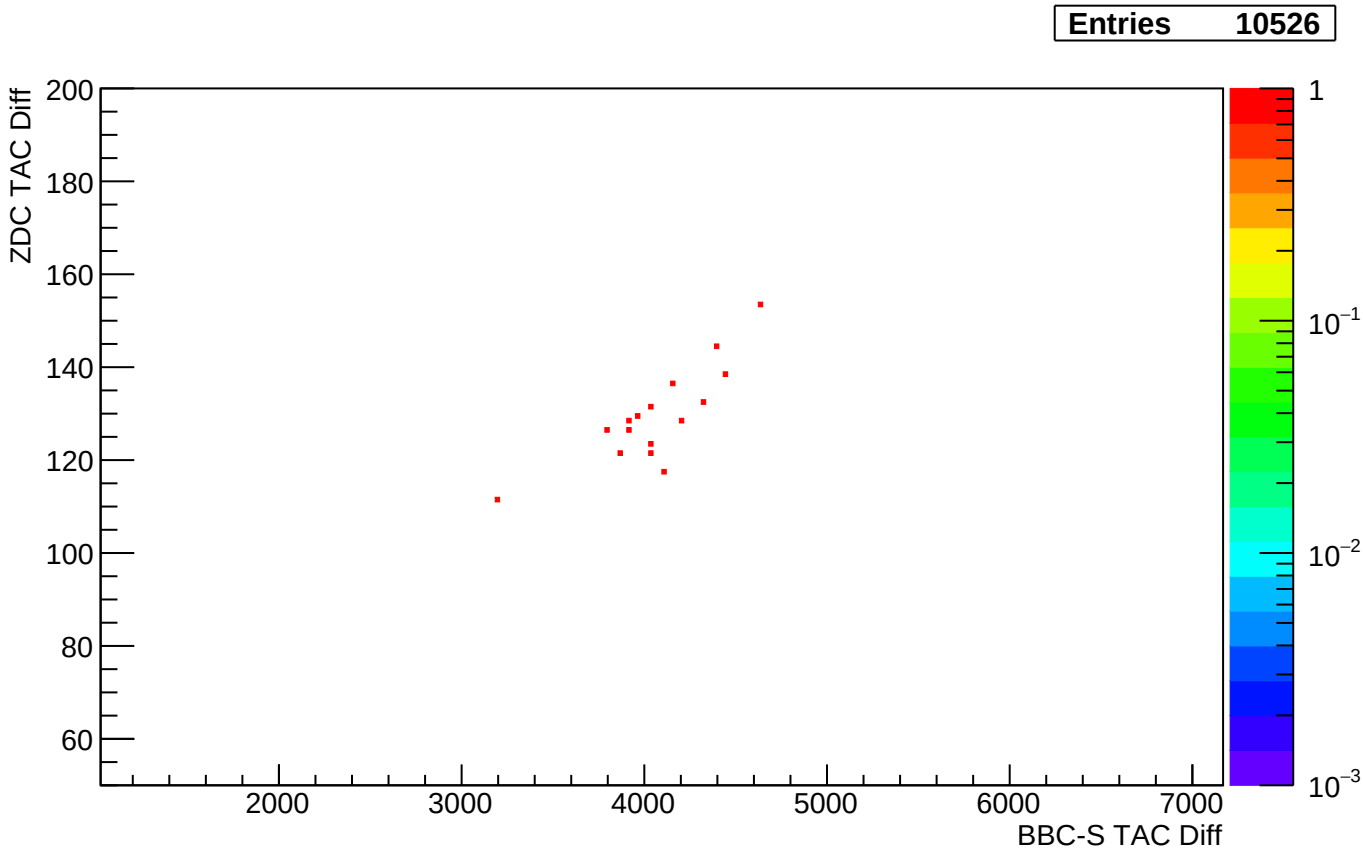

Entries 10526
TOF-Mult
EPD-West Hit Cnt

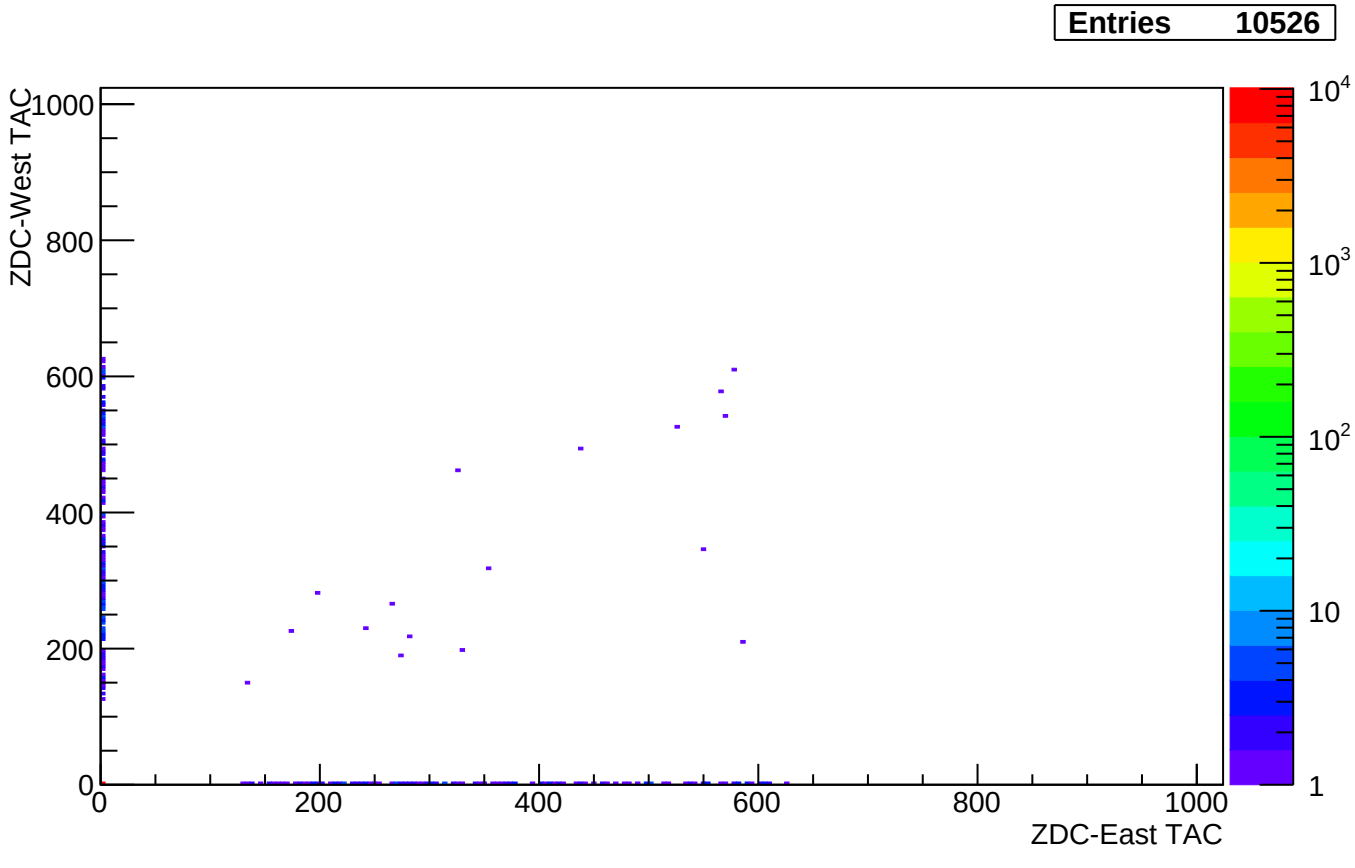

Entries 10526
TOF-Mult
VPD-East ADC Sum

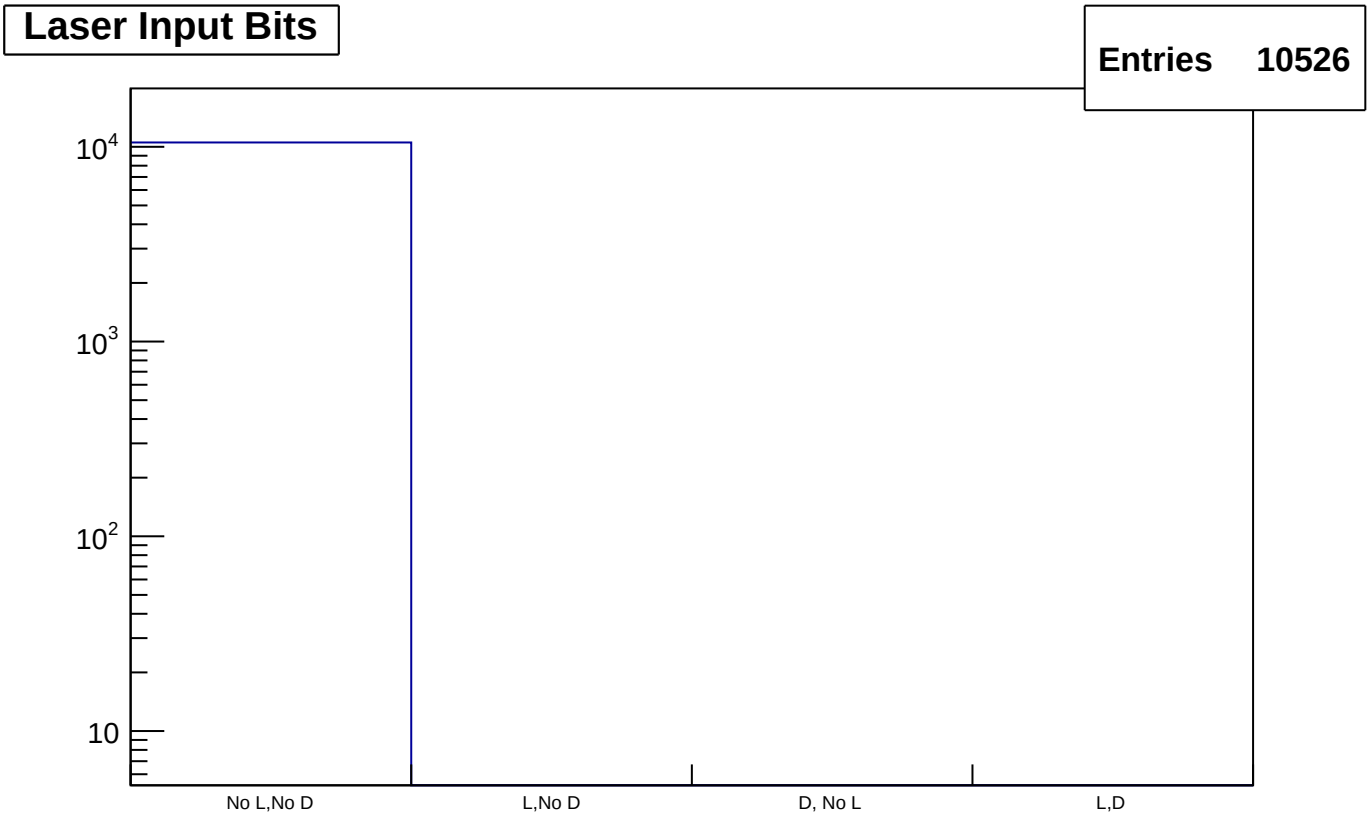

Entries 10526
TOF-Mult
VPD-West ADC Sum

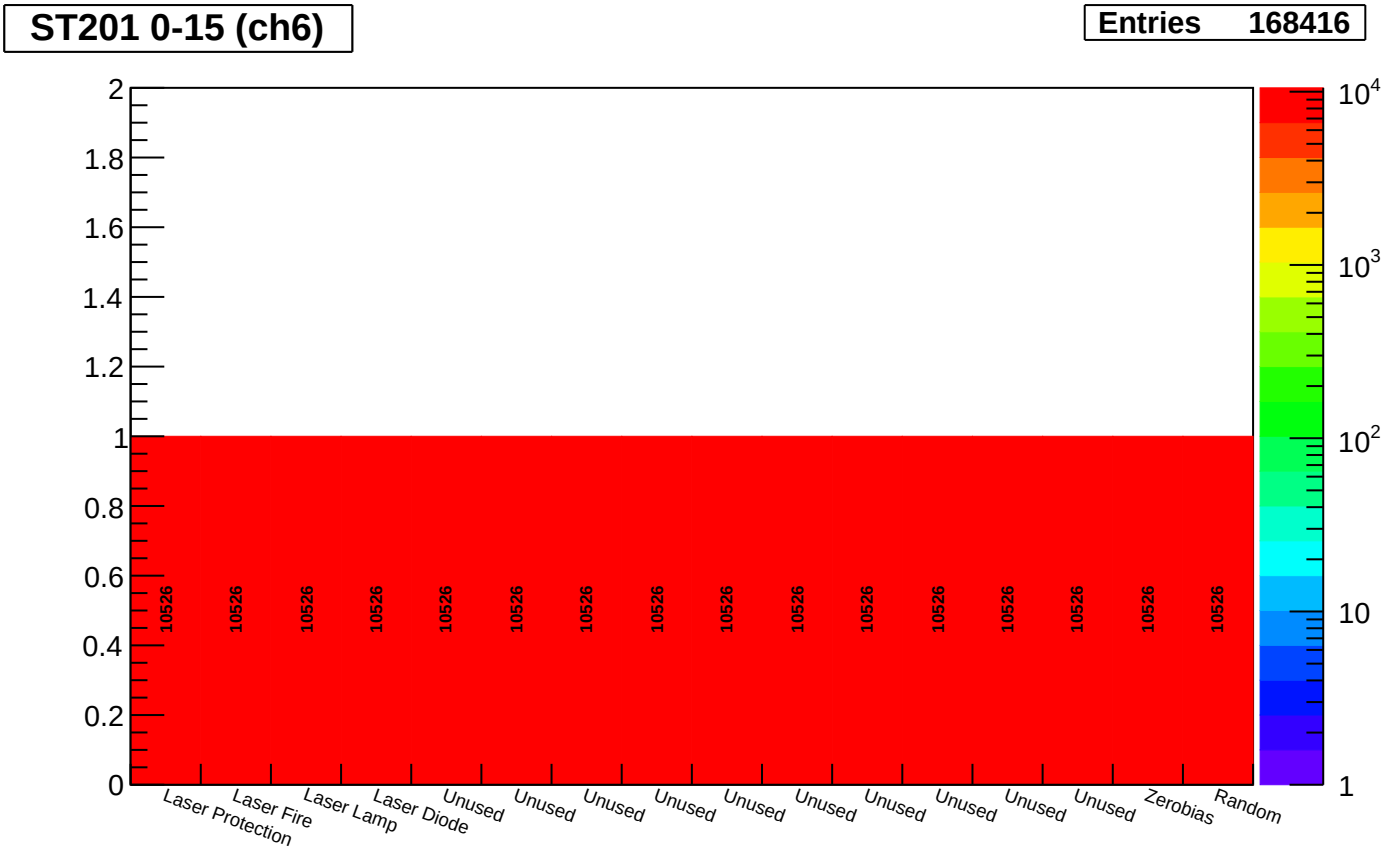

Entries 10526
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

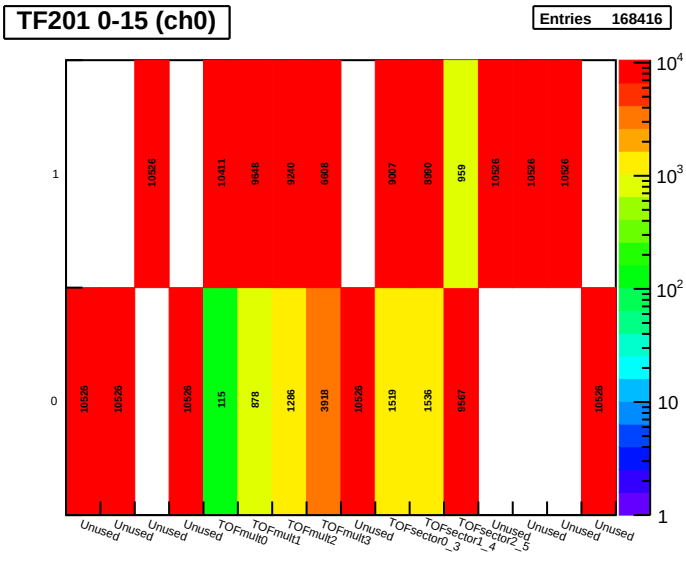

Entries 10526
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

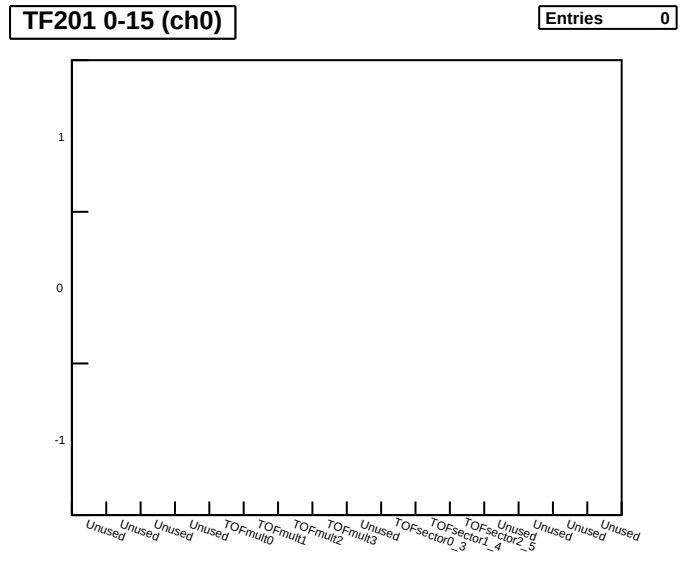

Entries 10526
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

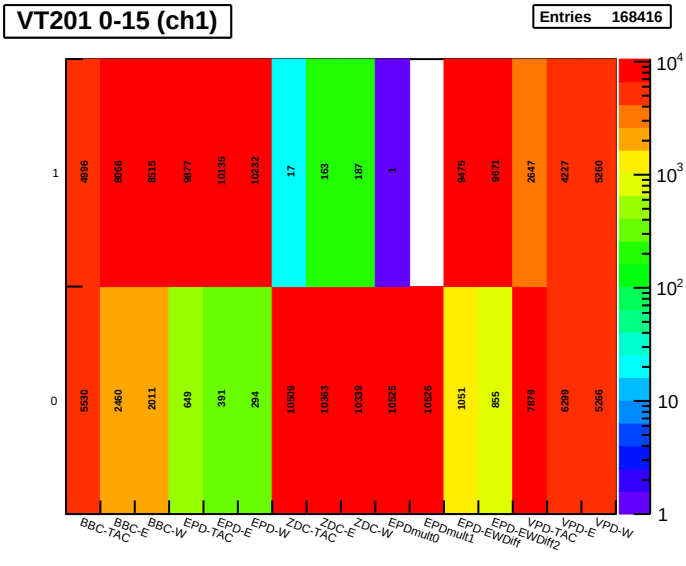

Entries 10526
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^4
10^3
10^2
10
1

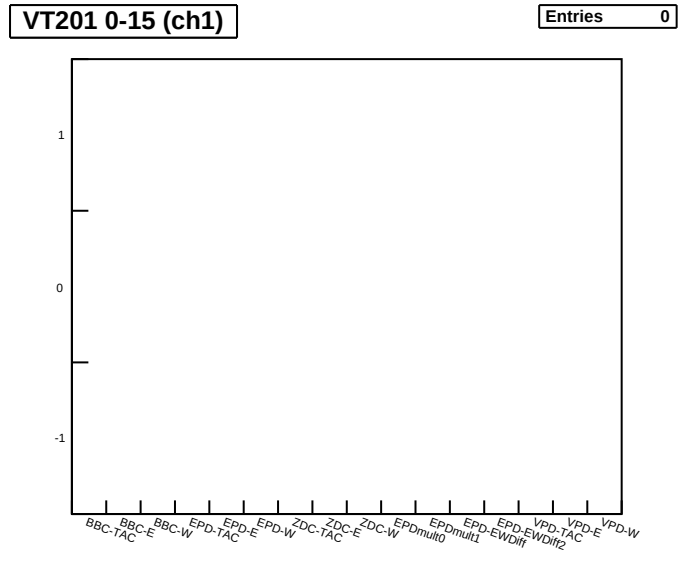

Laser Input Bits
Entries 10526
10^4
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

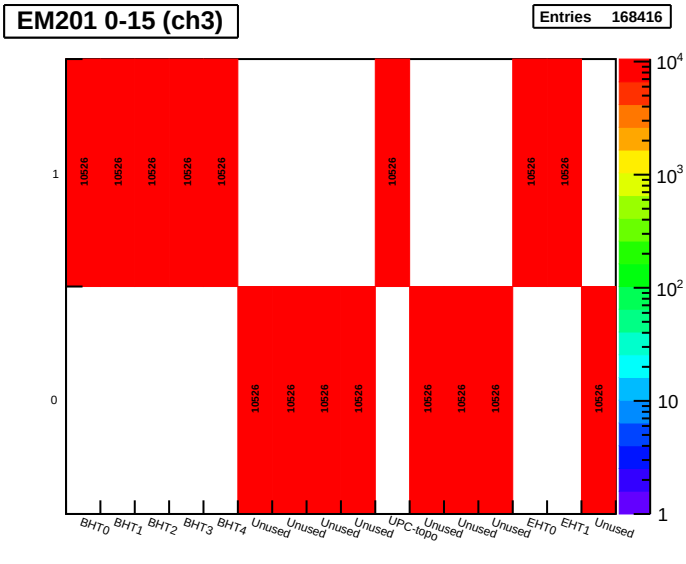

ST201 0-15 (ch6)
Entries 168416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10526
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

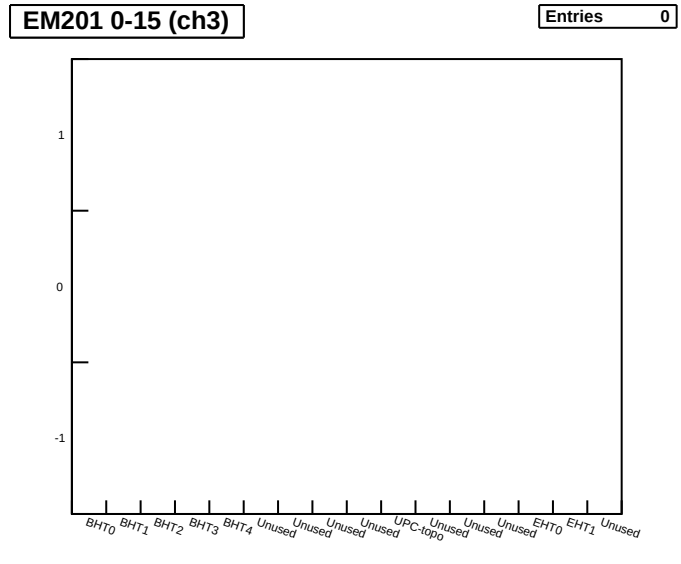

TF201 0-15 (ch0)
Entries 168416
1
0
10526
10411
9648
9240
6608
9007
8990
959
10526
10526
10526
10526
10526
10526
115
878
1286
3918
10526
1519
1536
9567
10526
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^4
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
Unused


VT201 0-15 (ch1)
Entries 168416
1
0
4996
8066
8515
9877
10135
10232
17
163
187
1
9475
9671
2647
4227
5260
5530
2460
2011
649
391
294
10509
10363
10339
10525
10526
1051
855
7879
6299
5266
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 168416
1
0
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
10526
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