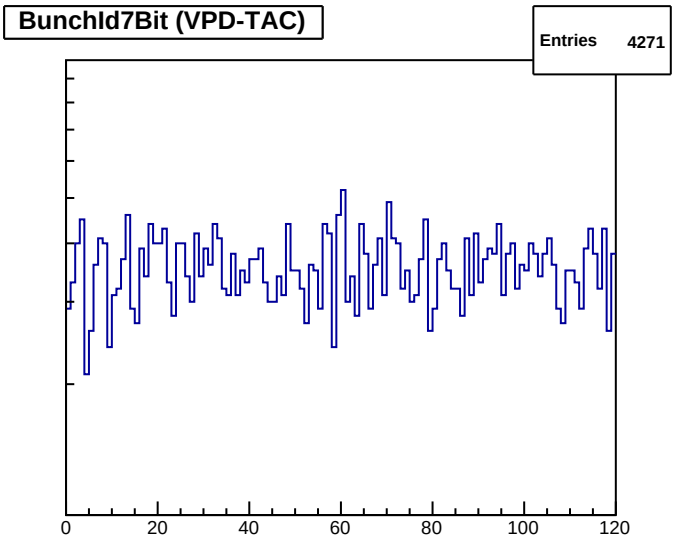
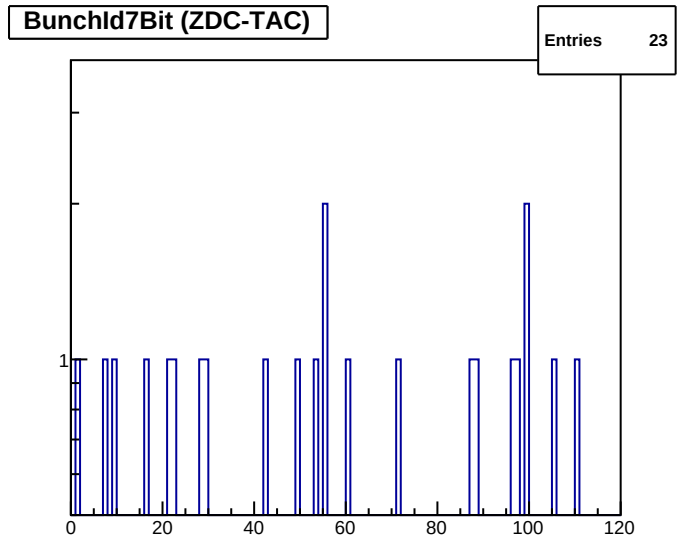
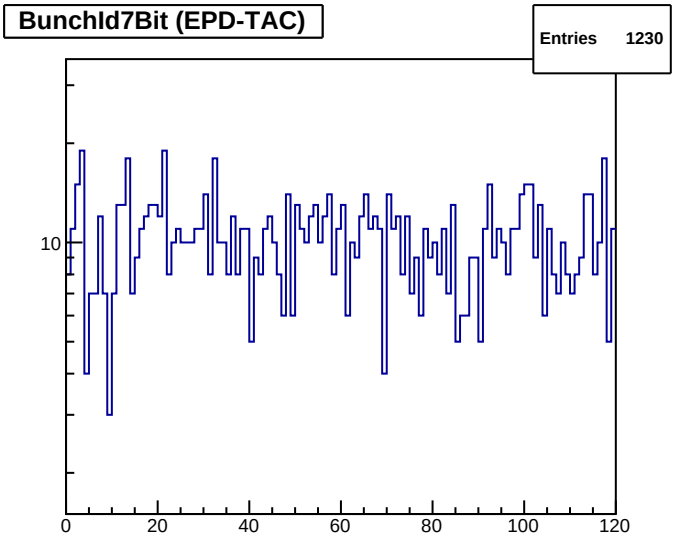
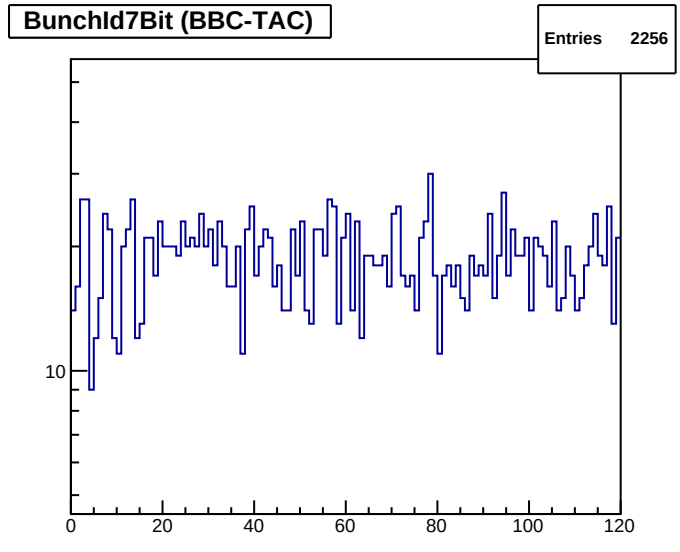
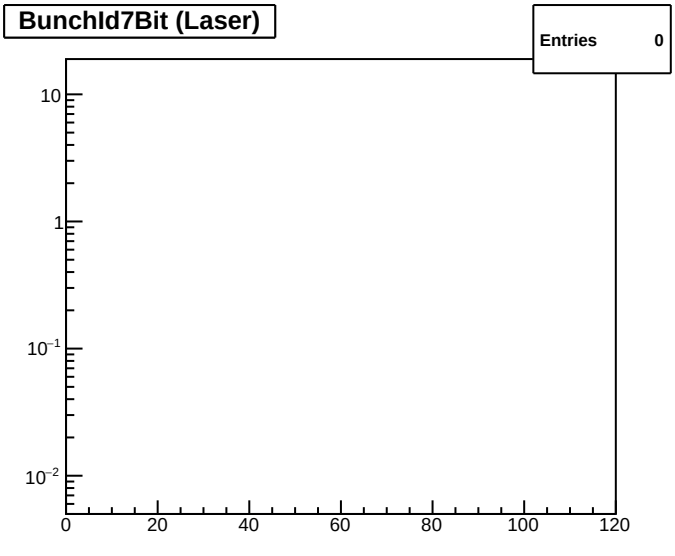
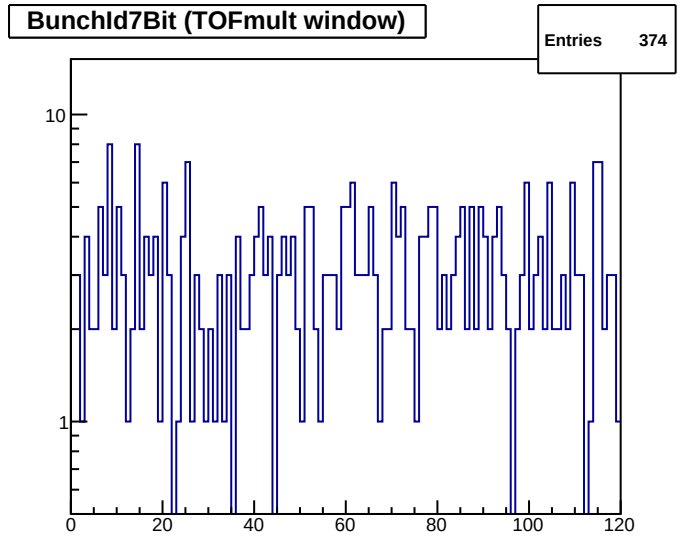

BunchId7Bit (VPD-TAC)
Entries 4271
0
20
40
60
80
100
120

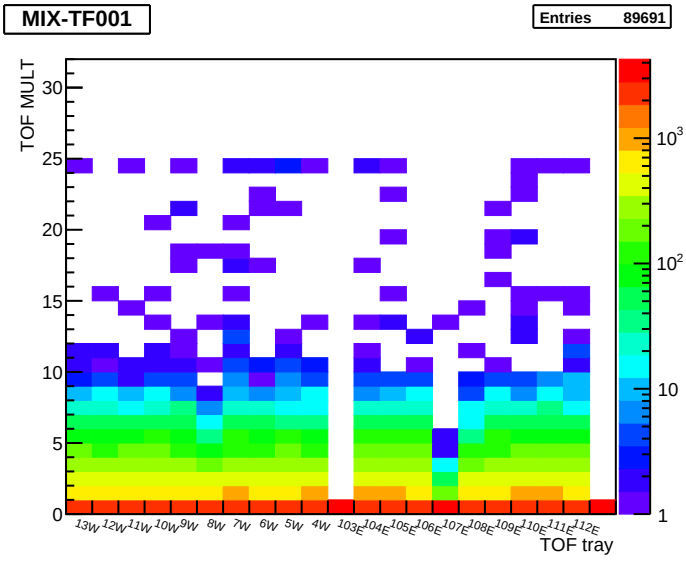

BunchId7Bit (ZDC-TAC)
Entries 23
1
0
20
40
60
80
100
120

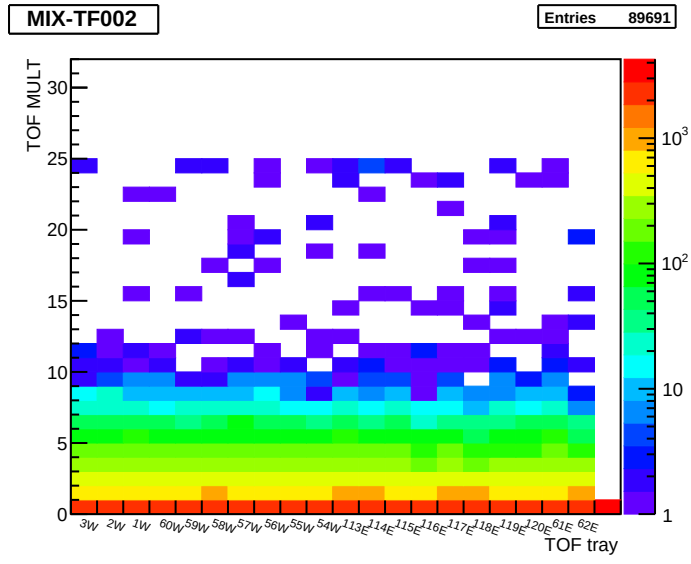

BunchId7Bit (EPD-TAC)
Entries 1230
10
0
20
40
60
80
100
120

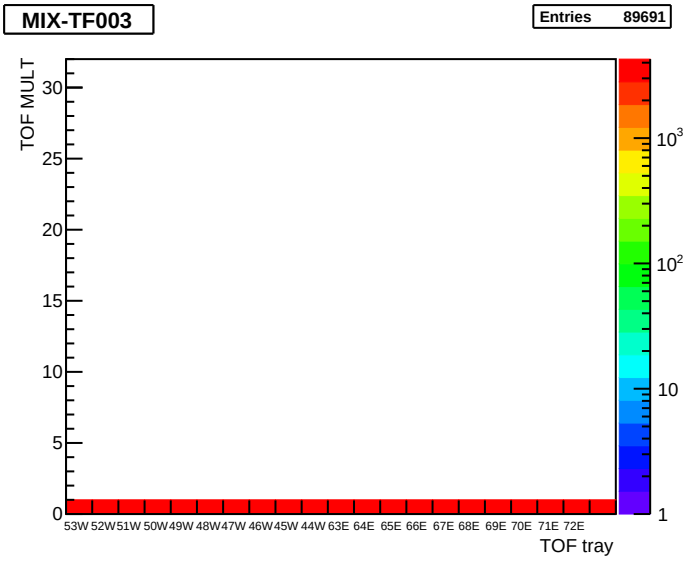

BunchId7Bit (BBC-TAC)
Entries 2256
10
0
20
40
60
80
100
120

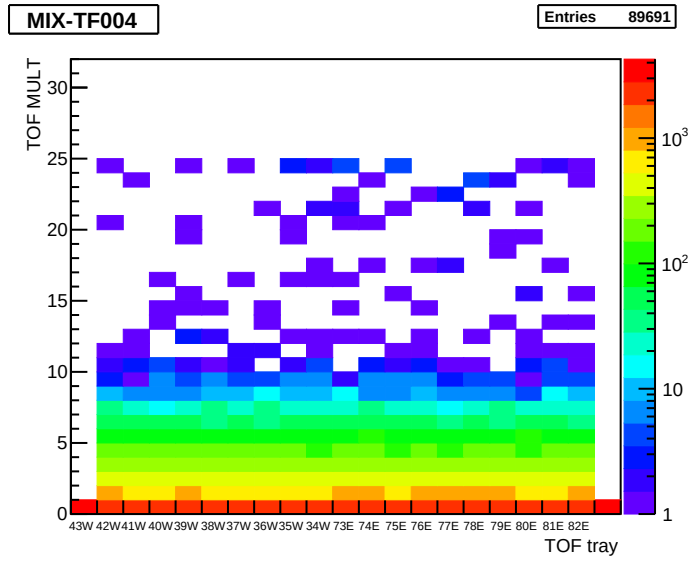

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

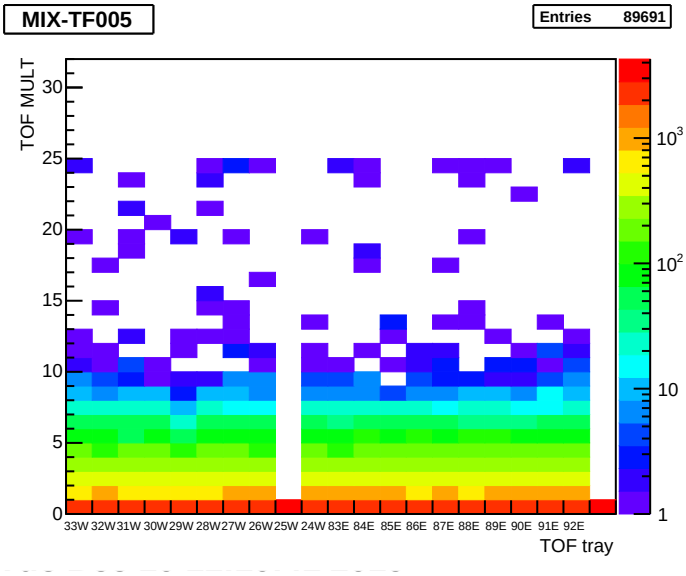

BunchId7Bit (TOFmult window)
Entries 374
10
1
0
20
40
60
80
100
120

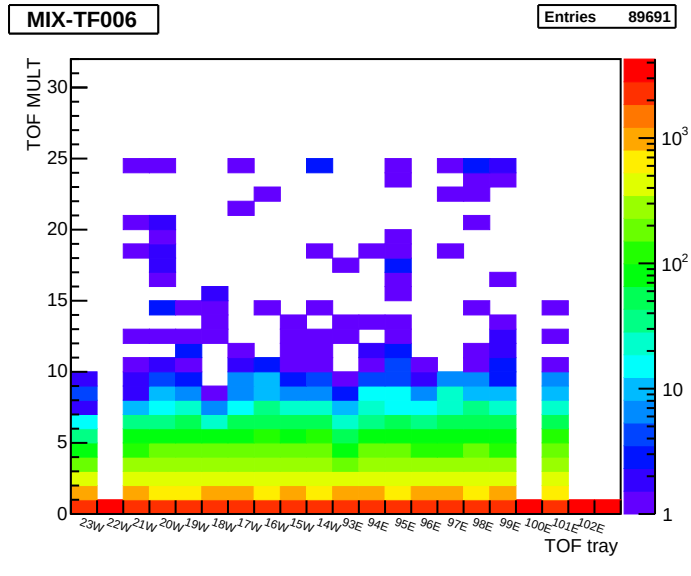

MIX-TF001
Entries 89691
TOF MULT
TOF tray

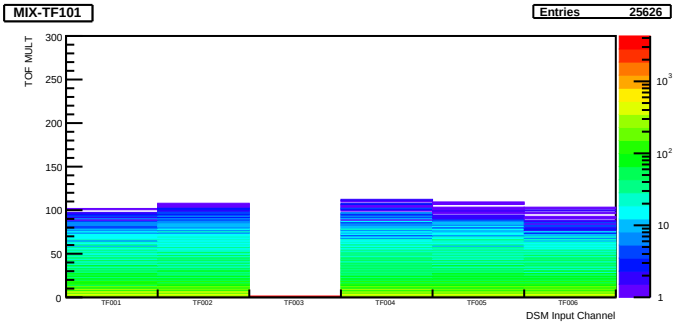

MIX-TF002
Entries 89691
TOF MULT
TOF tray

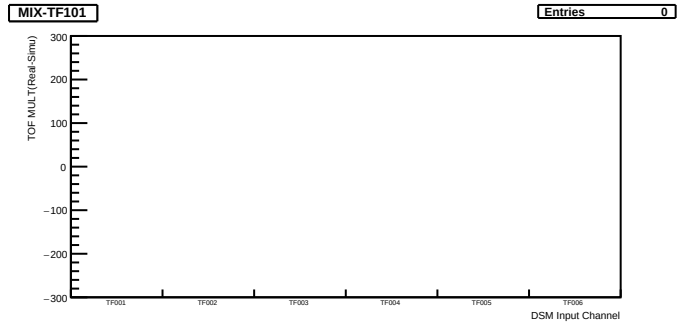

MIX-TF003
Entries 89691
TOF MULT
TOF tray

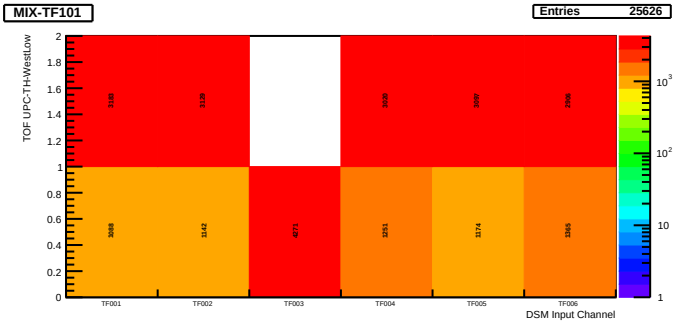

MIX-TF004
Entries 89691
TOF MULT
TOF tray

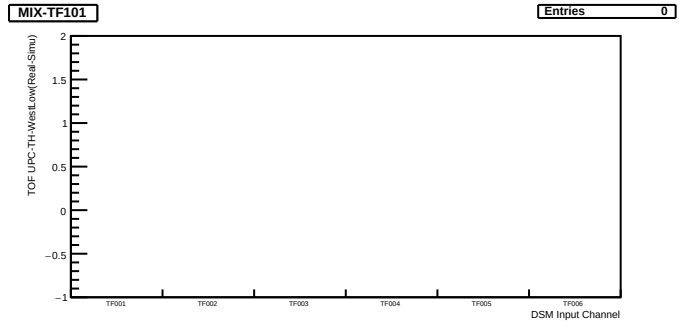

MIX-TF005
Entries 89691
TOF MULT
TOF tray

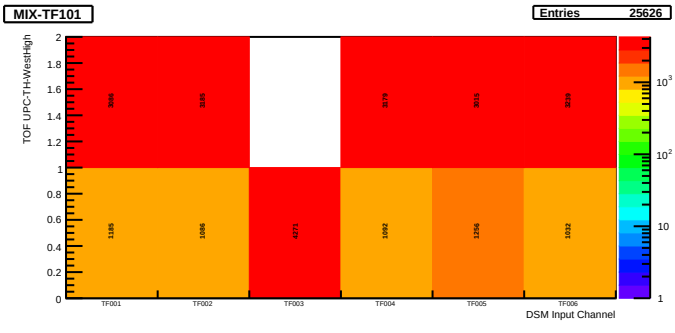

MIX-TF006
Entries 89691
TOF MULT
TOF tray

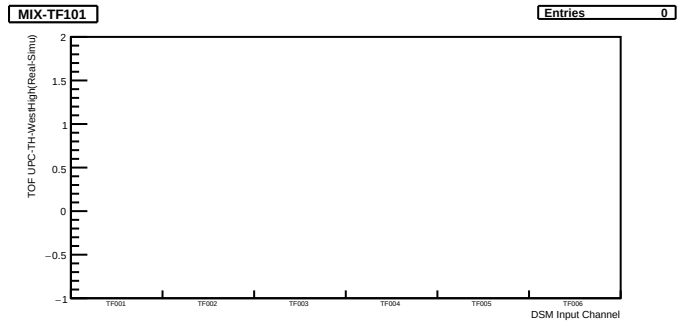

MIX-TF101
Entries 25626
TOF MULT
DSM Input Channel

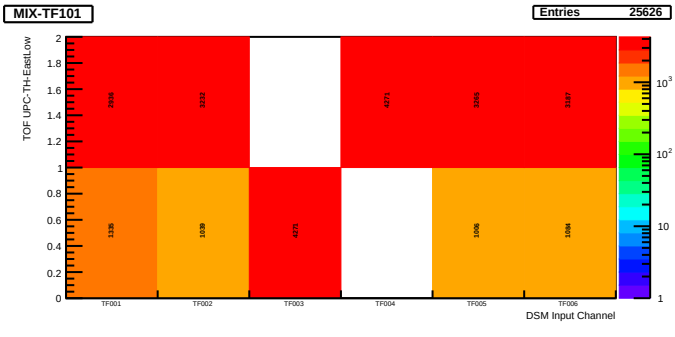

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel

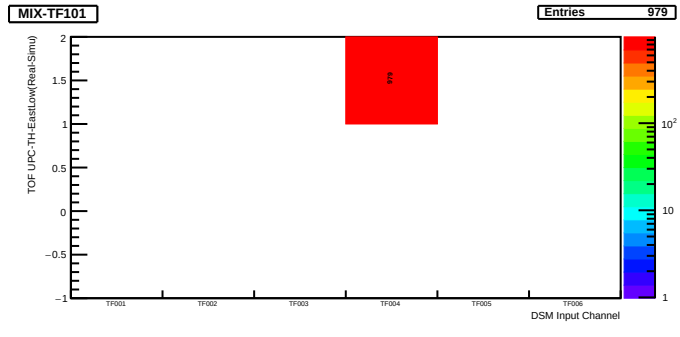

MIX-TF101
Entries 25626
TOF UPC-TH-WestLow
DSM Input Channel

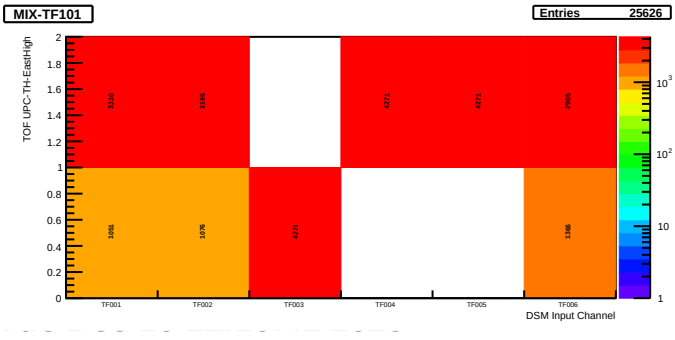

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel

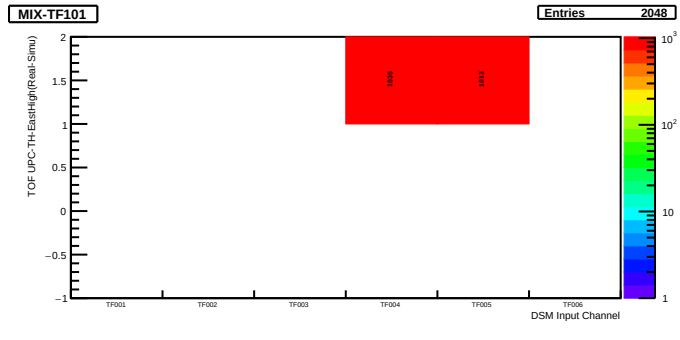

MIX-TF101
Entries 25626
TOF UPC-TH-WestHigh
DSM Input Channel

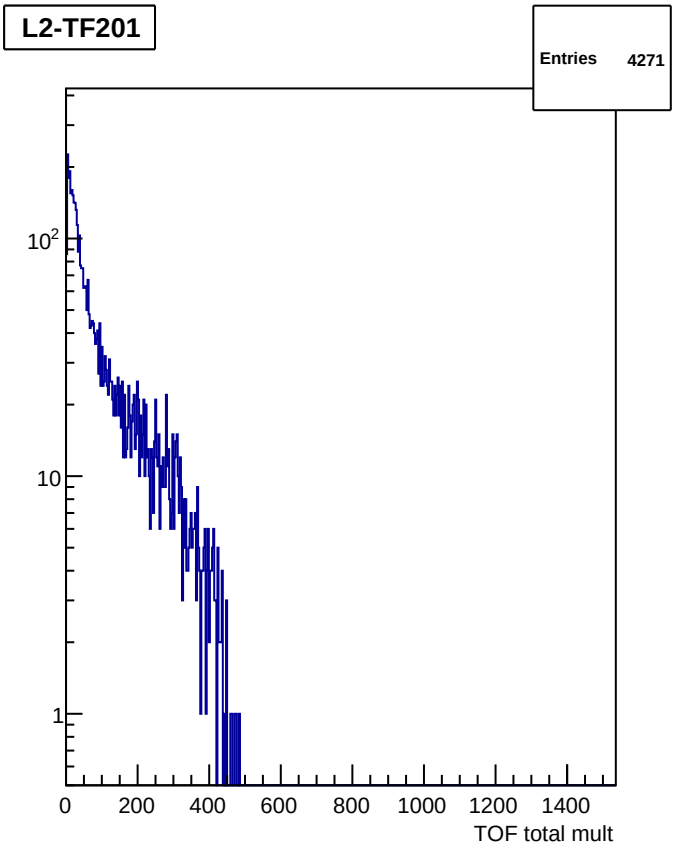

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel

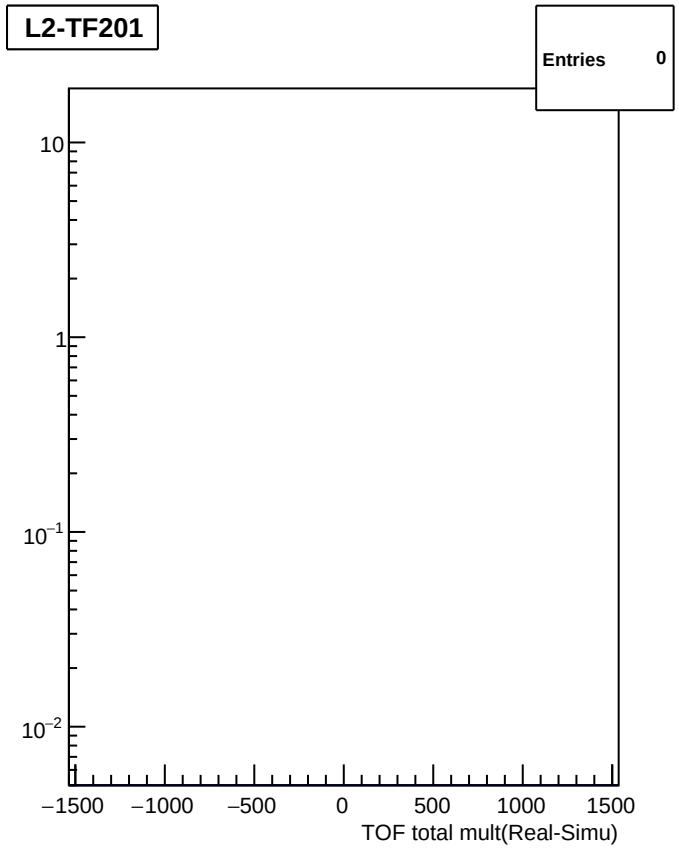

MIX-TF101
Entries 25626
TOF UPC-TH-EastLow
DSM Input Channel

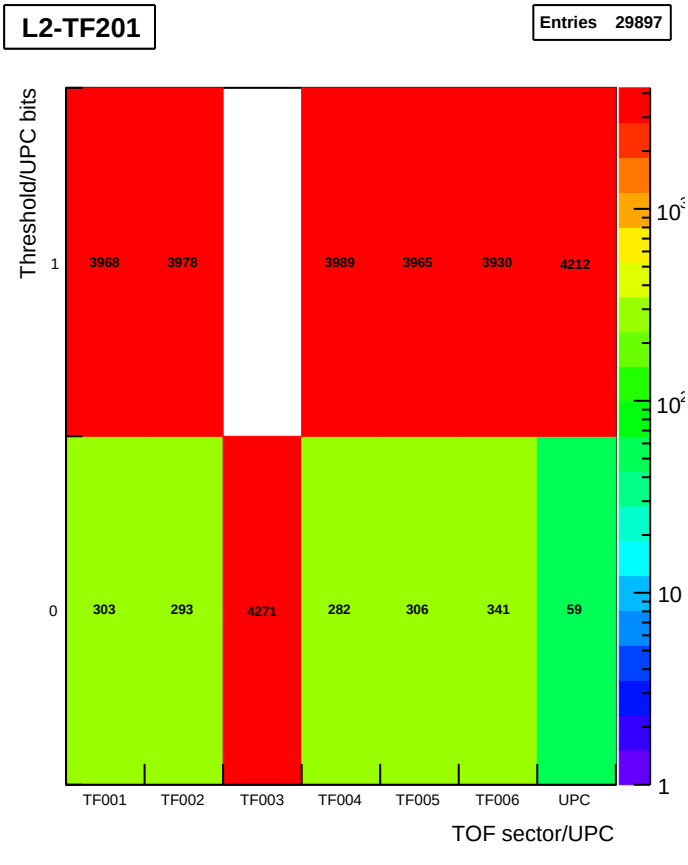

MIX-TF101
Entries 979
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel

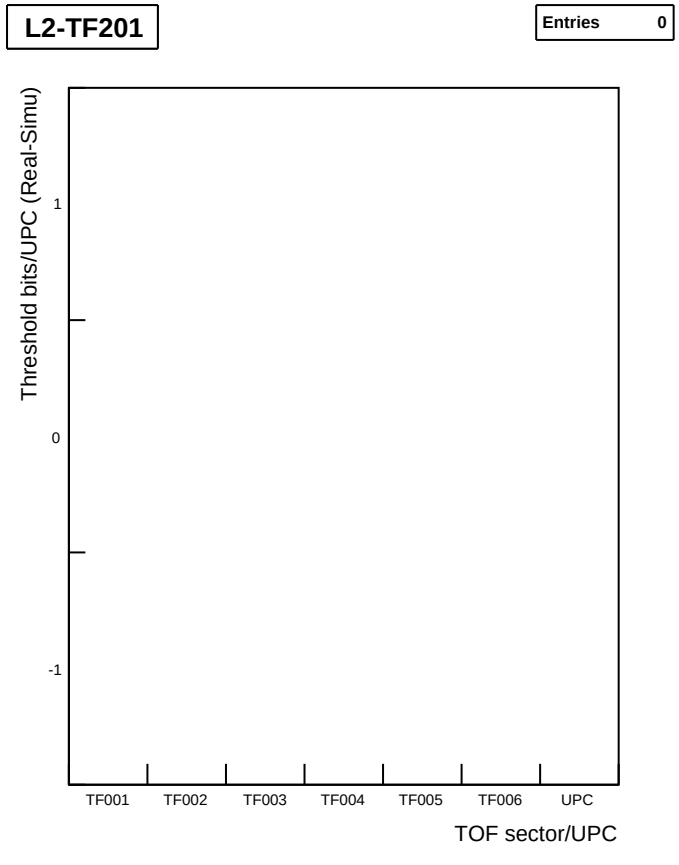

MIX-TF101
Entries 25626
TOF UPC-TH-EastHigh
DSM Input Channel

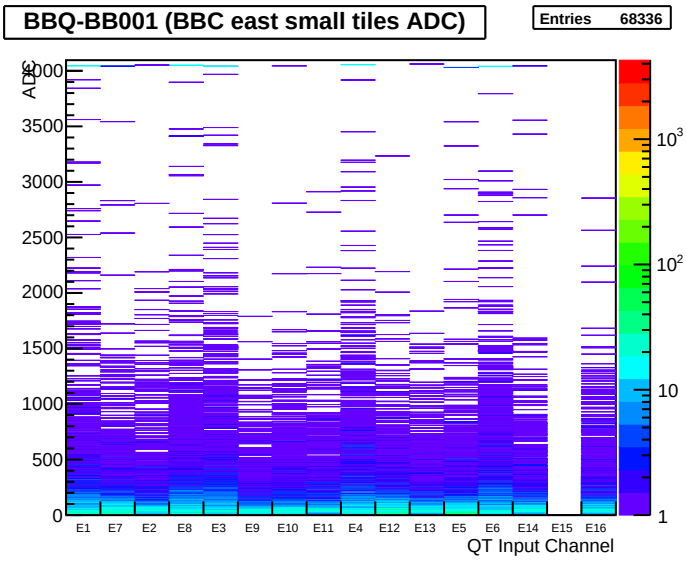

MIX-TF101
Entries 2048
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel

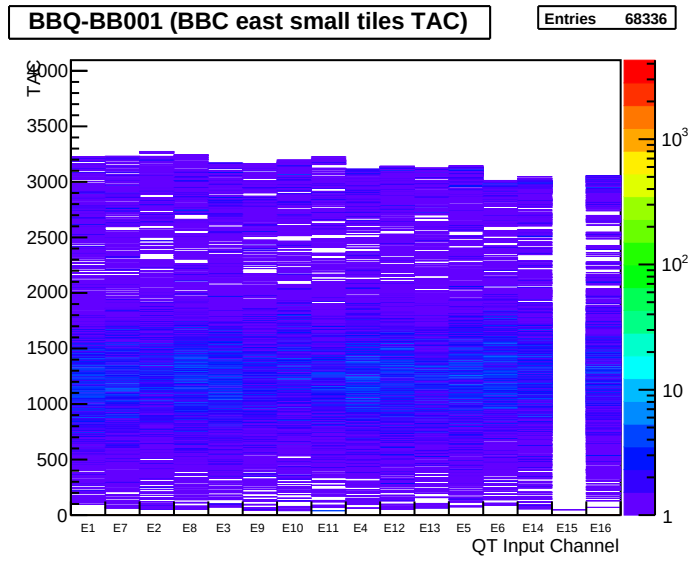

L2-TF201
Entries 4271
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

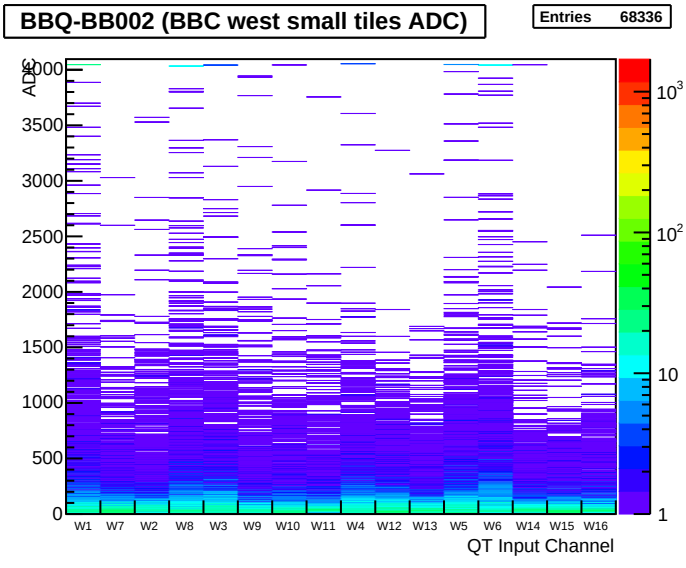

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

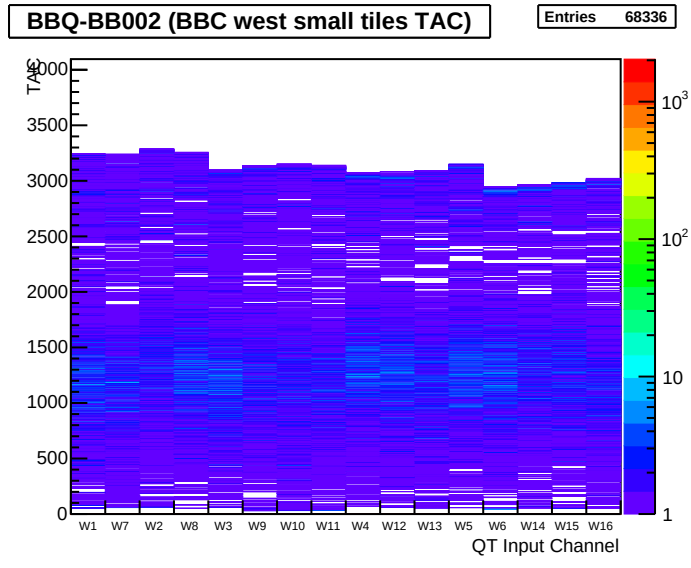

L2-TF201
Entries 29897
Threshold/UPC bits
1
0
3968
3978
3989
3965
3930
4212
303
293
4271
282
306
341
59
10
1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

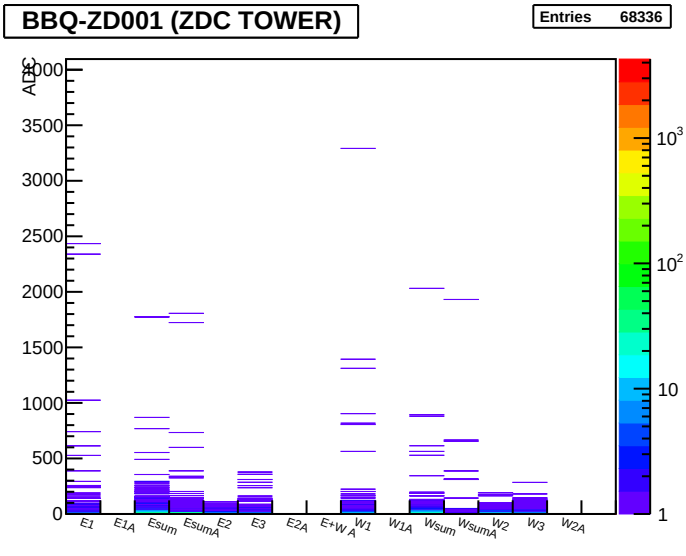

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

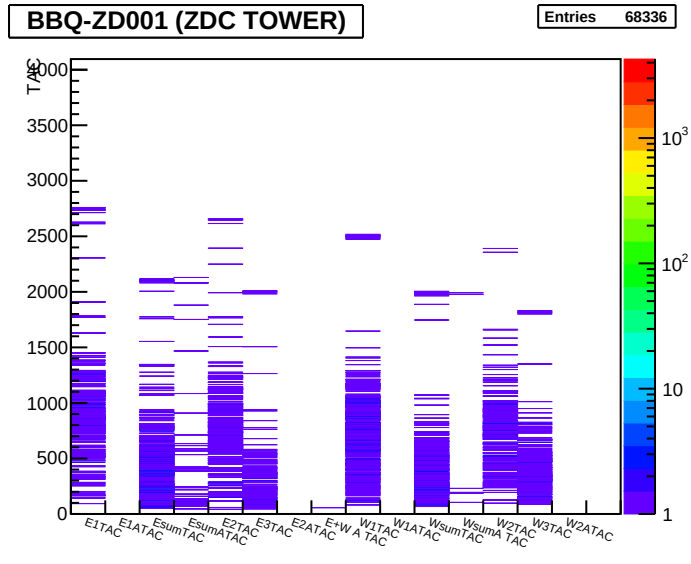

BBQ-BB001 (BBC east small tiles ADC)
Entries 68336
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

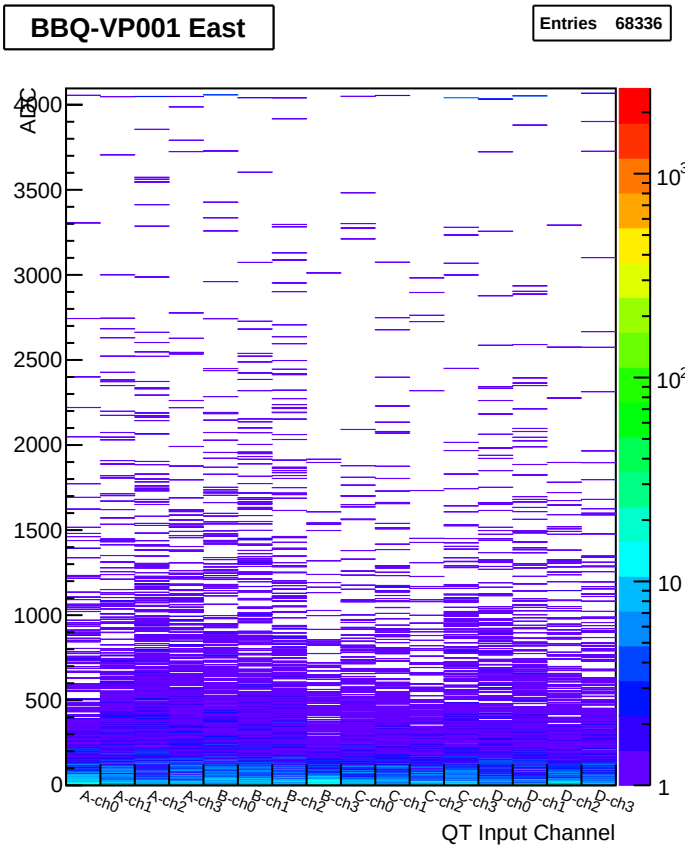

BBQ-BB001 (BBC east small tiles TAC)
Entries 68336
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

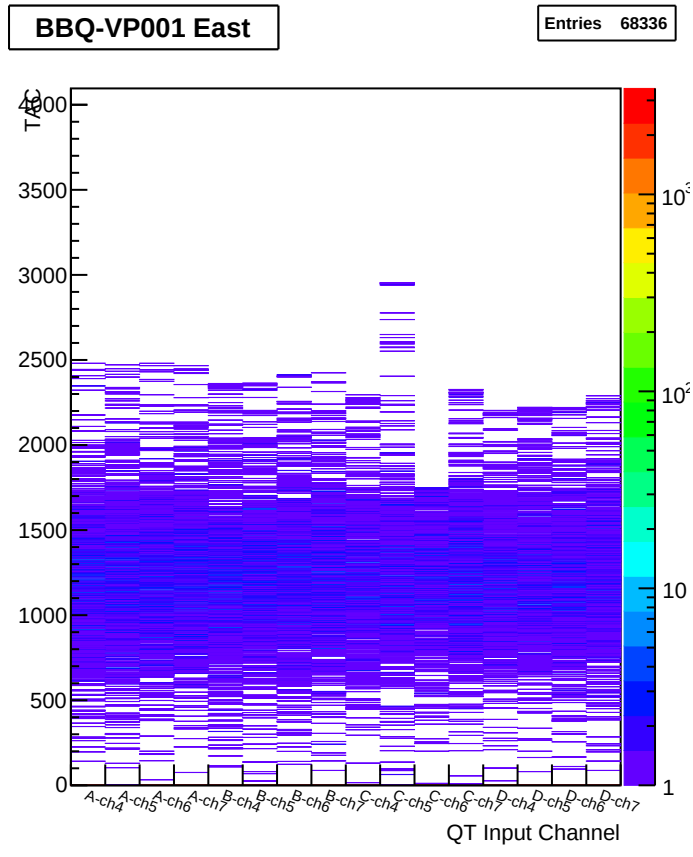

BBQ-BB002 (BBC west small tiles ADC)
Entries 68336
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

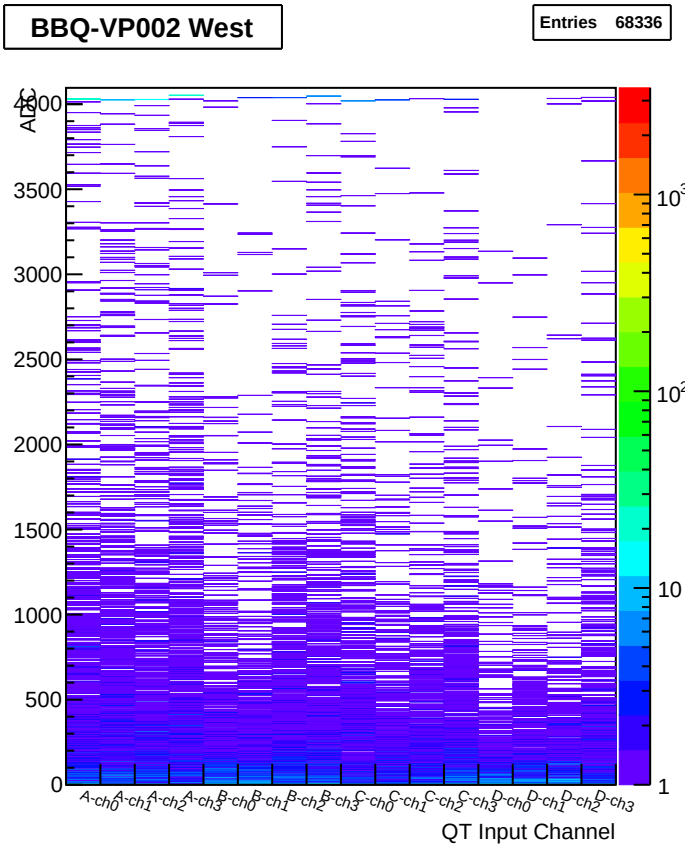

BBQ-BB002 (BBC west small tiles TAC)
Entries 68336
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

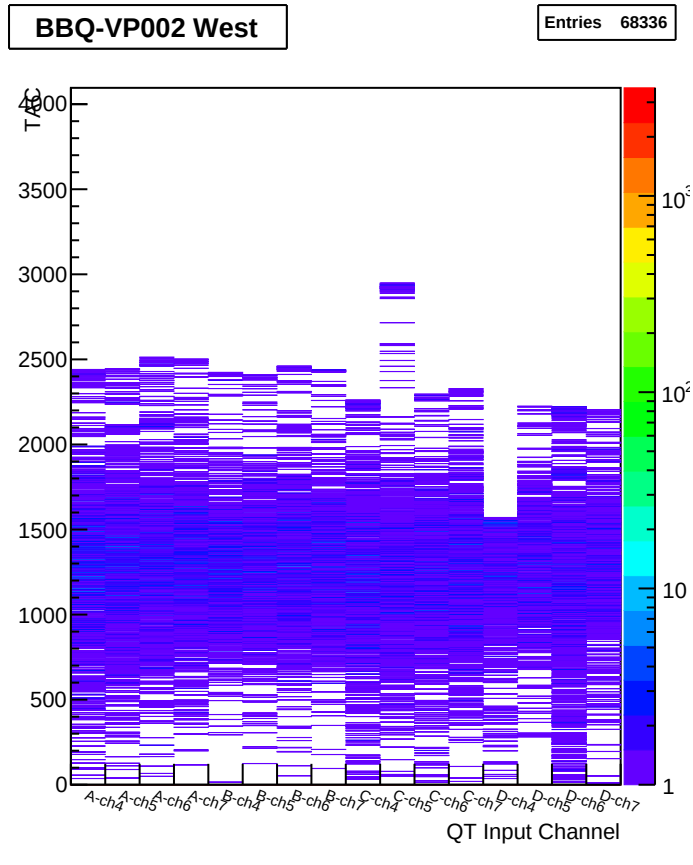

BBQ-ZD001 (ZDC TOWER)
Entries 68336
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

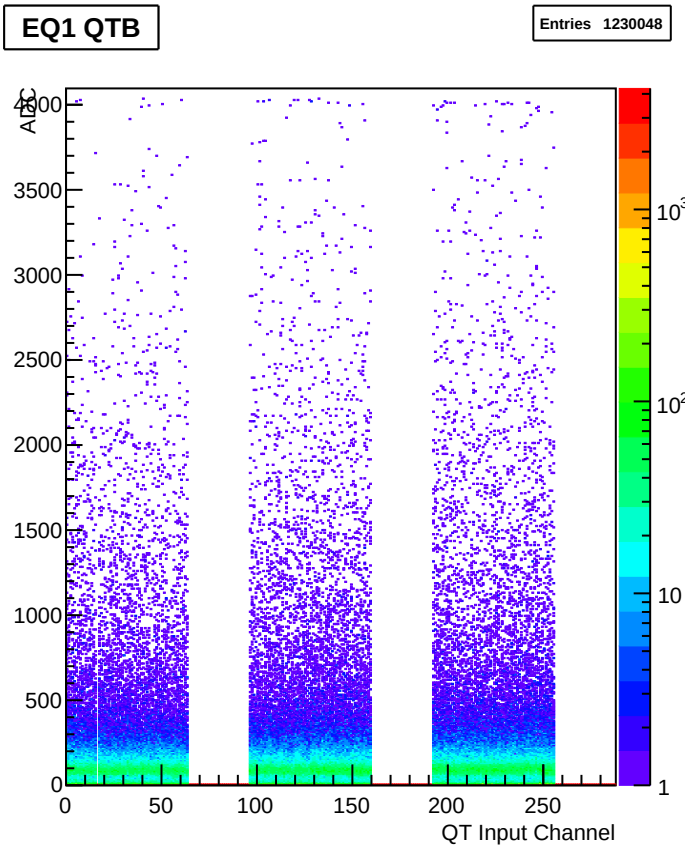

BBQ-ZD001 (ZDC TOWER)
Entries 68336
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

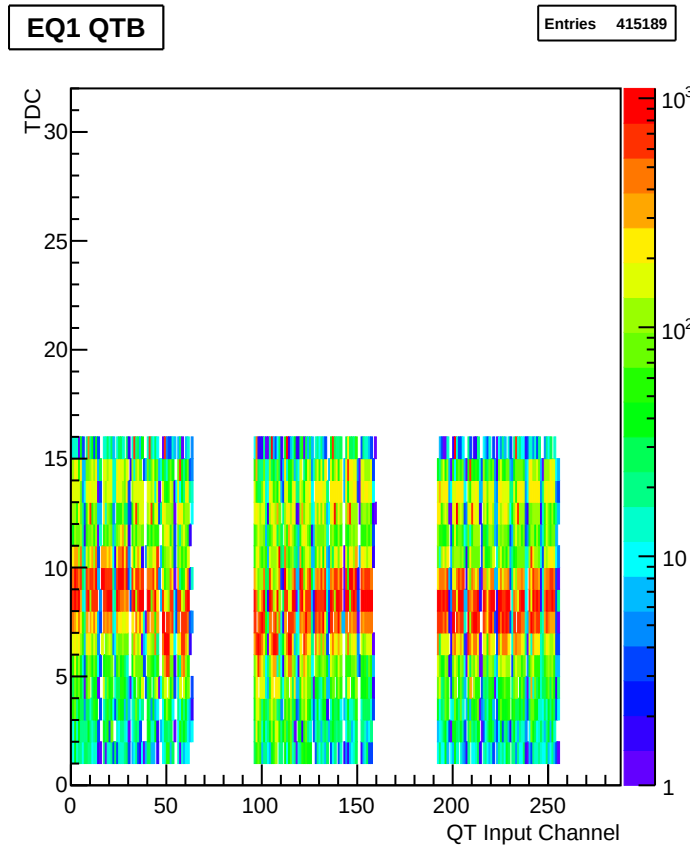

BBQ-VP001 East
Entries 68336
ADC
QT Input Channel

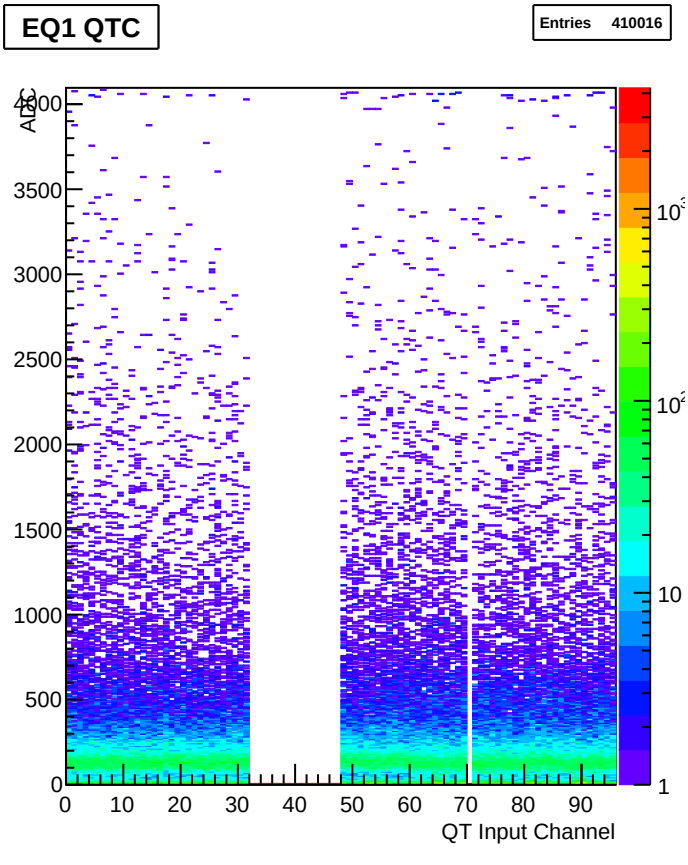

BBQ-VP001 East
Entries 68336
TADC
QT Input Channel

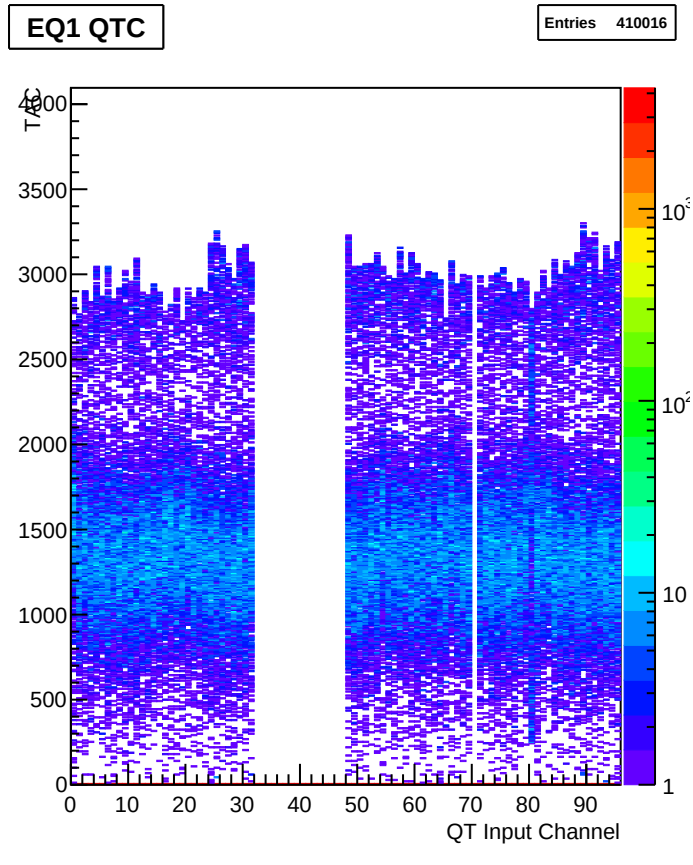

BBQ-VP002 West
Entries 68336
ADC
QT Input Channel

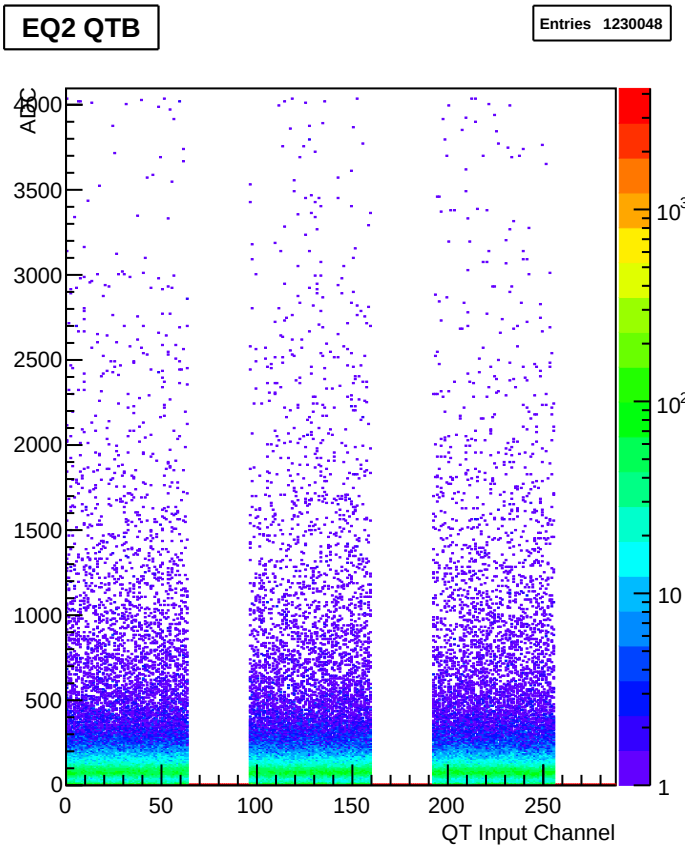

BBQ-VP002 West
Entries 68336
TADC
QT Input Channel

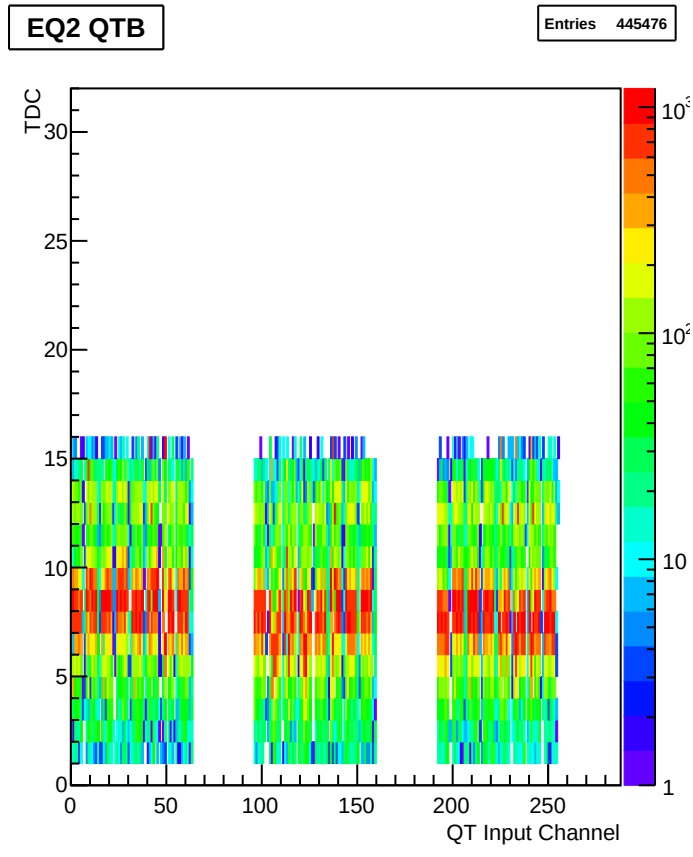

EQ1 QTB
Entries 1230048
ADC
QT Input Channel

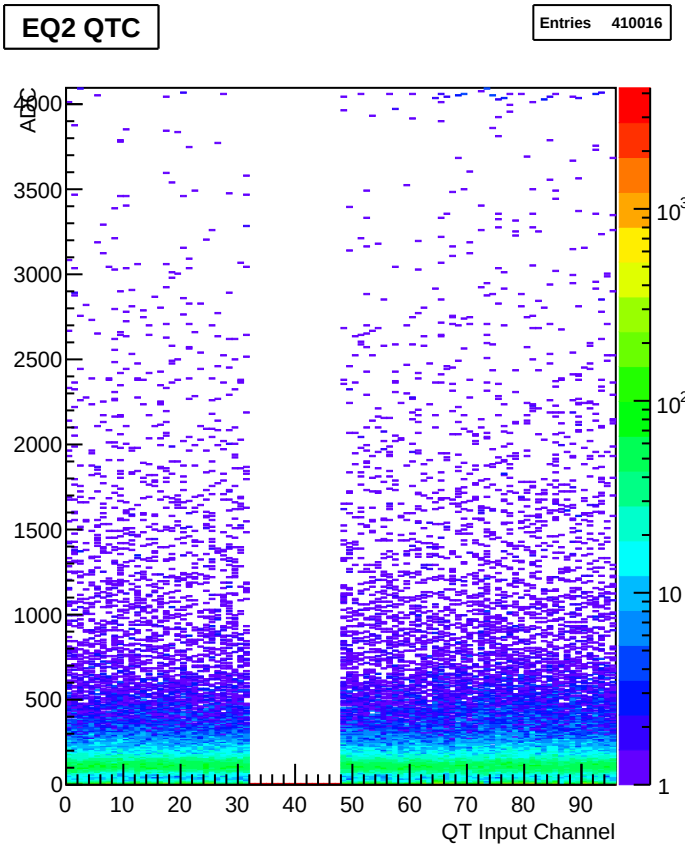

EQ1 QTB
Entries 415189
TDC
QT Input Channel

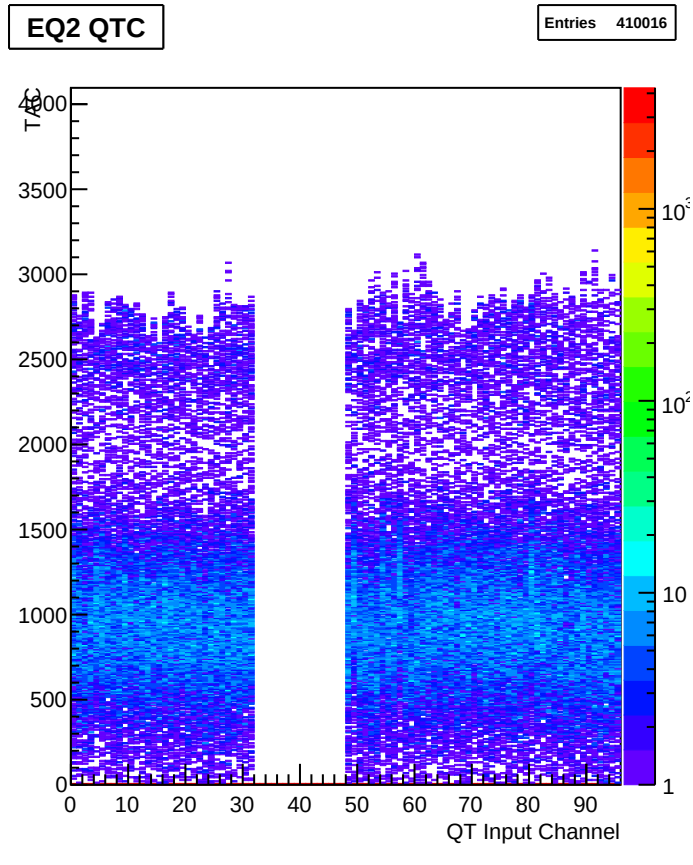

EQ1 QTC
Entries 410016
ADC
QT Input Channel

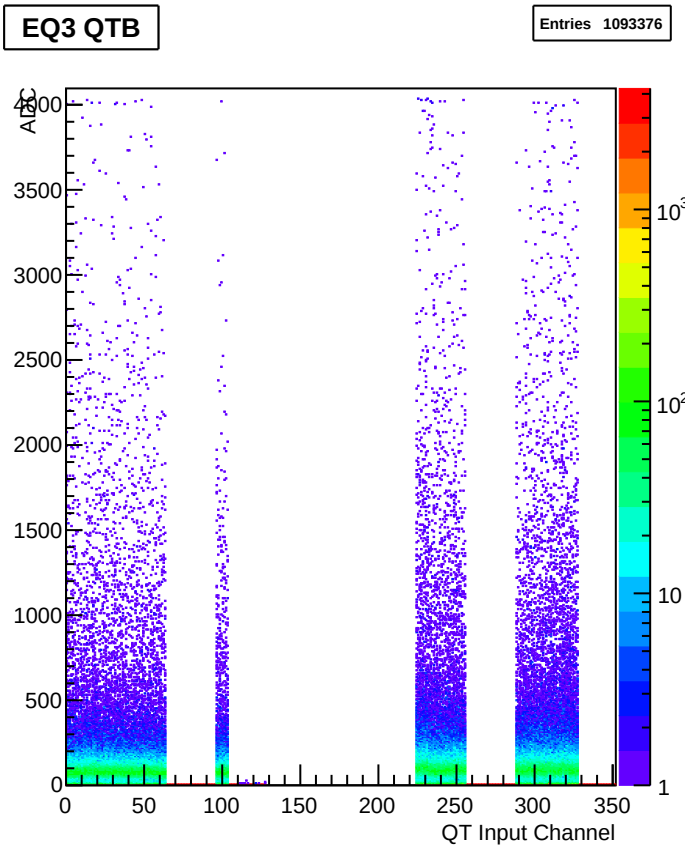

EQ1 QTC
Entries 410016
TADC
QT Input Channel

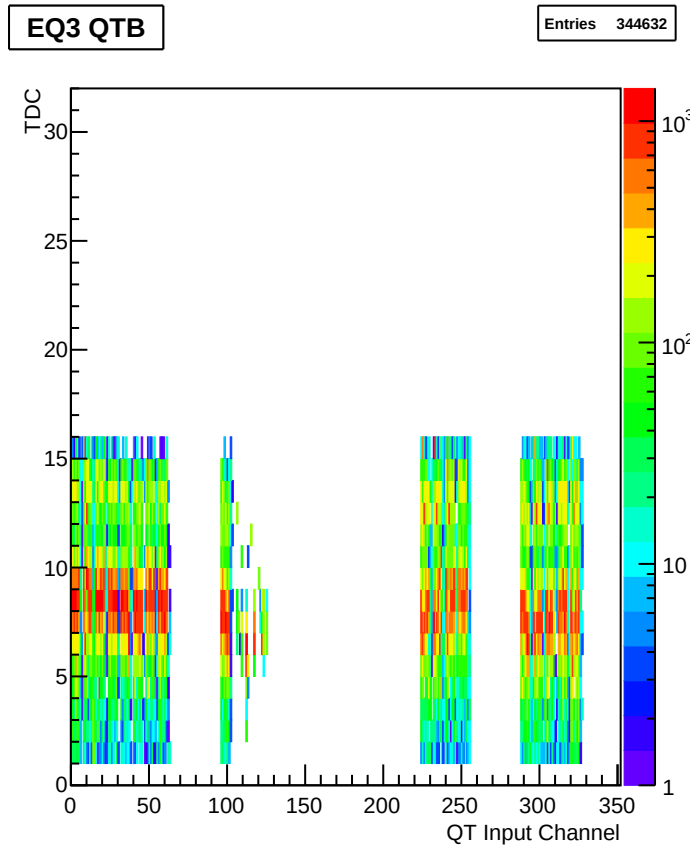

EQ2 QTB
Entries 1230048
ADC
QT Input Channel

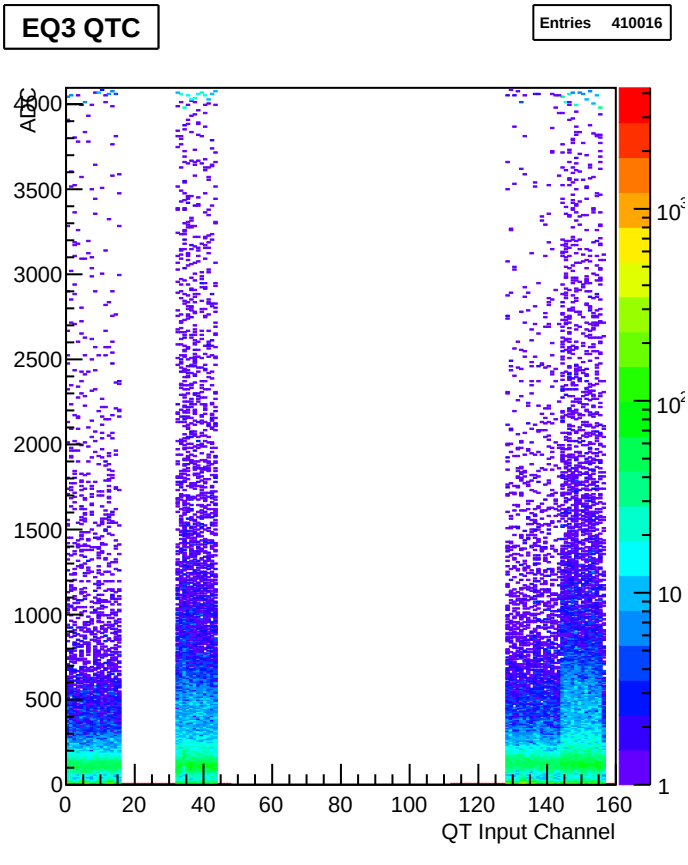

EQ2 QTB
Entries 445476
TDC
QT Input Channel

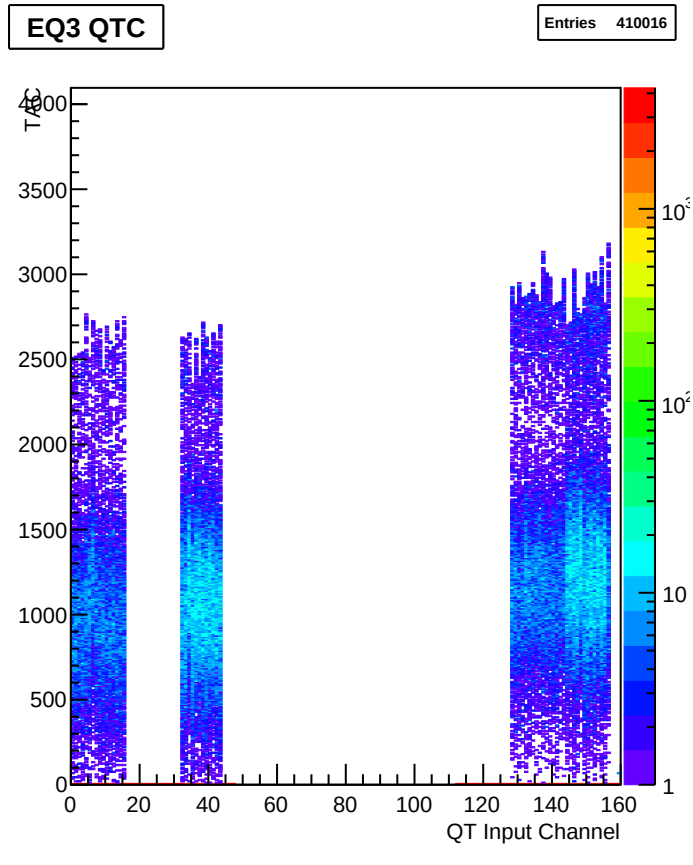

EQ2 QTC
Entries 410016
ADC
QT Input Channel

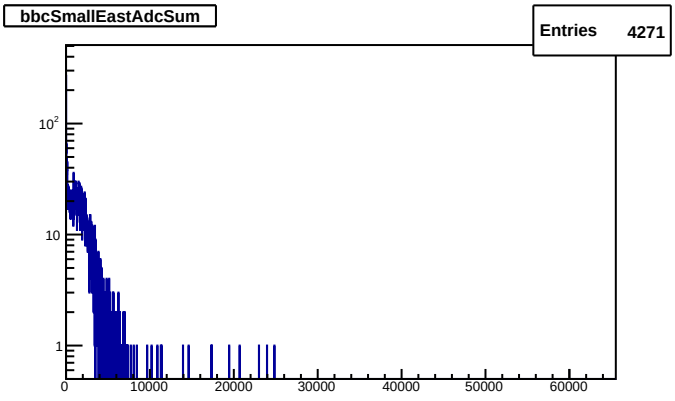

EQ2 QTC
Entries 410016
TADC
QT Input Channel

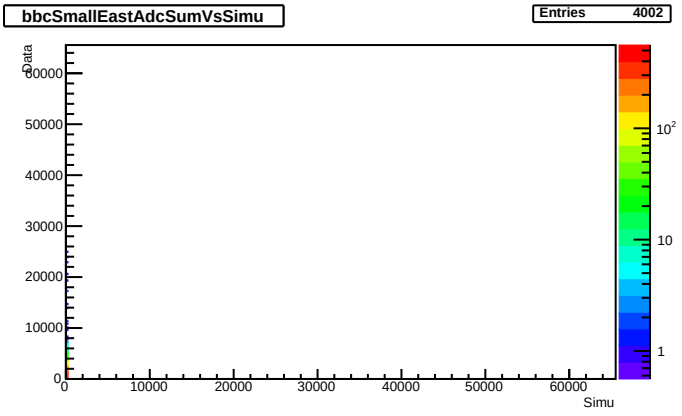

EQ3 QTB
Entries 1093376
ADC
QT Input Channel

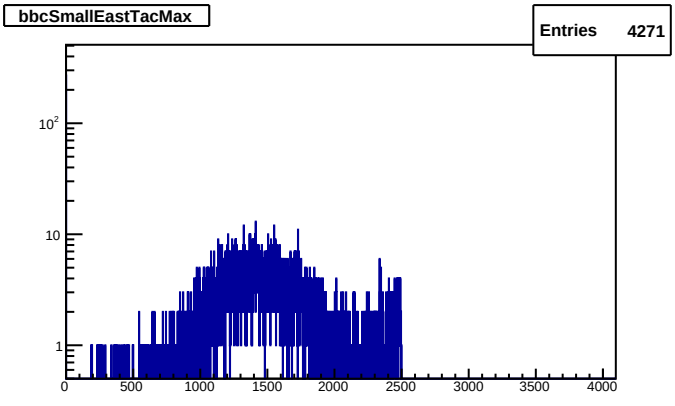

EQ3 QTB
Entries 344632
TDC
QT Input Channel

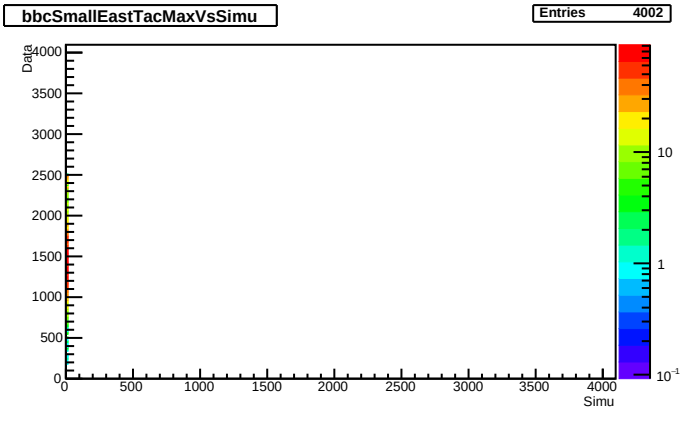

EQ3 QTC
Entries 410016
ADC
QT Input Channel

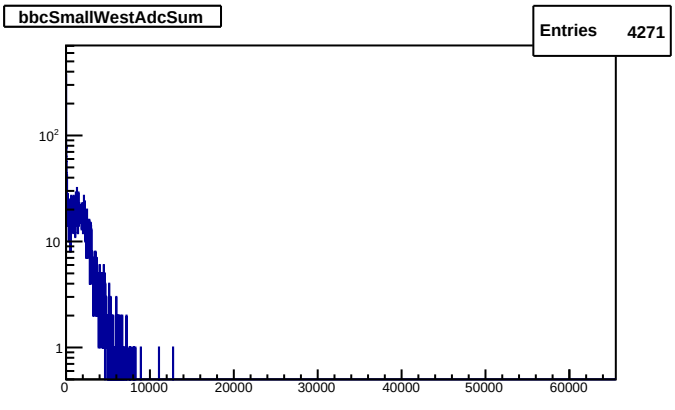

EQ3 QTC
Entries 410016
TADC
QT Input Channel

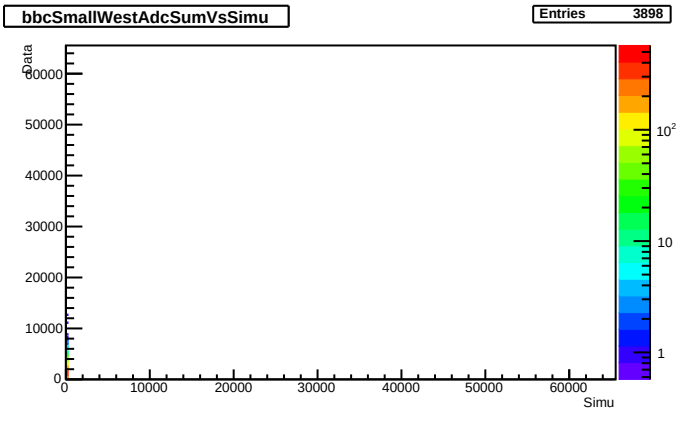

bbcSmallEastAdcSum
Entries 4271

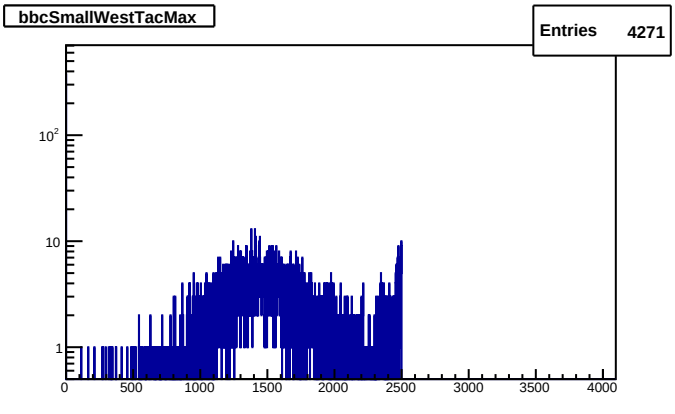

bbcSmallEastAdcSumVsSimu
Entries 4002
Data
Simu

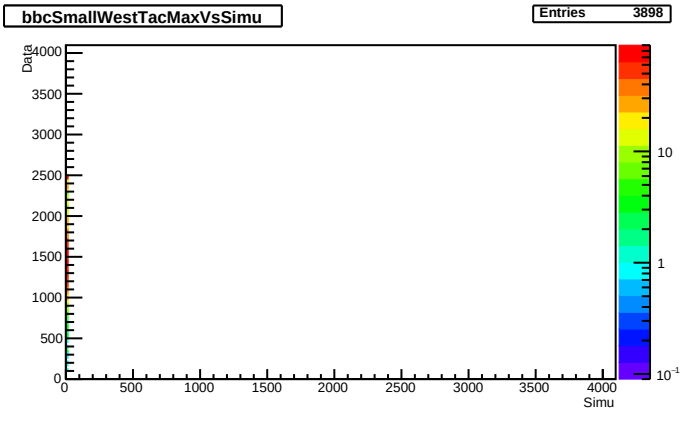

bbcSmallEastTacMax
Entries 4271

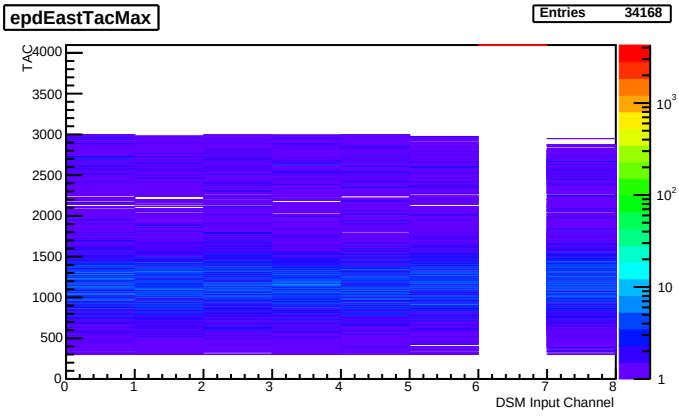

bbcSmallEastTacMaxVsSimu
Entries 4002
Data
Simu

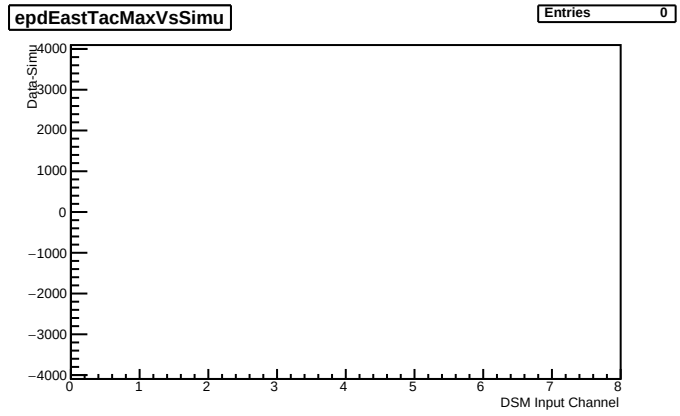

bbcSmallWestAdcSum
Entries 4271

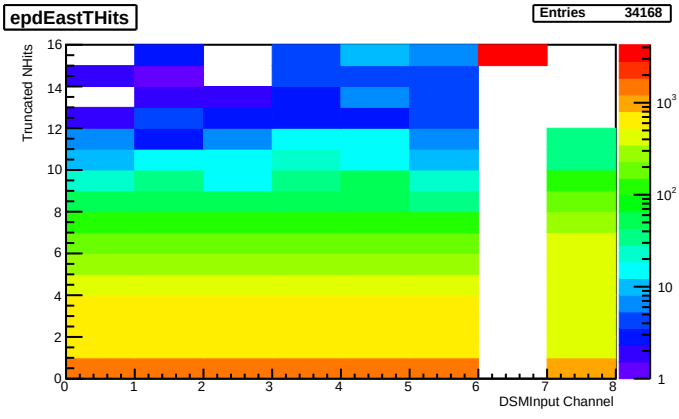

bbcSmallWestAdcSumVsSimu
Entries 3898
Data
Simu

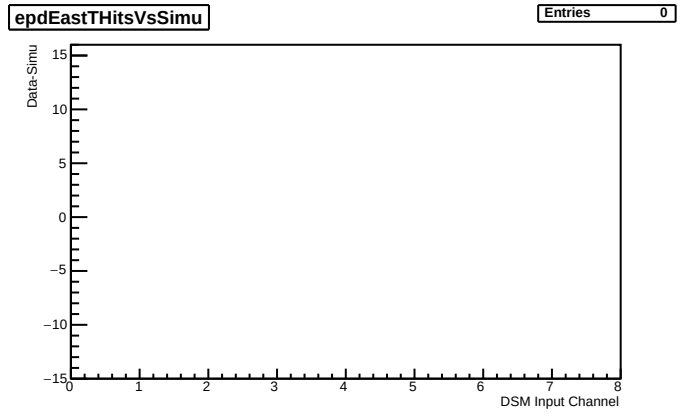

bbcSmallWestTacMax
Entries 4271

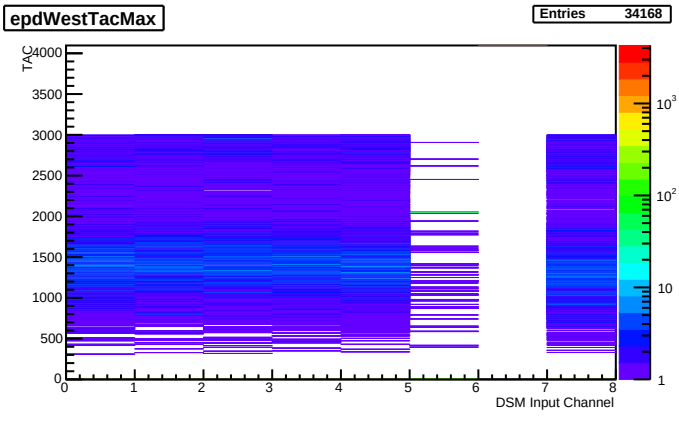

bbcSmallWestTacMaxVsSimu
Entries 3898
Data
Simu

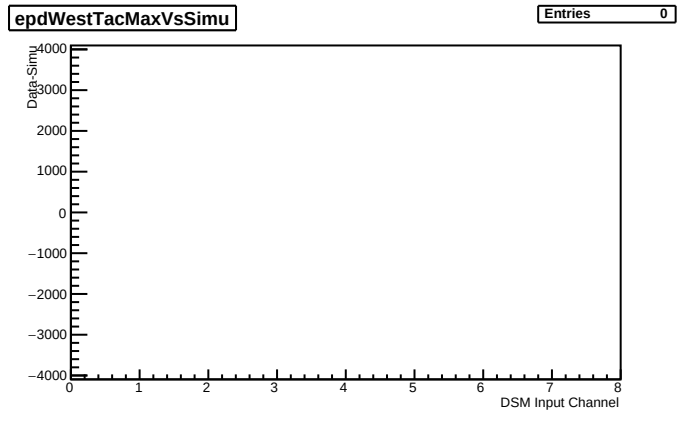

epdEastTacMax
Entries 34168
TAC
DSM Input Channel

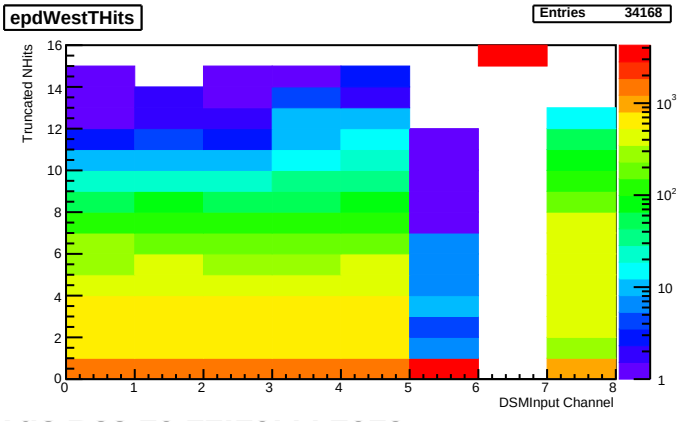

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

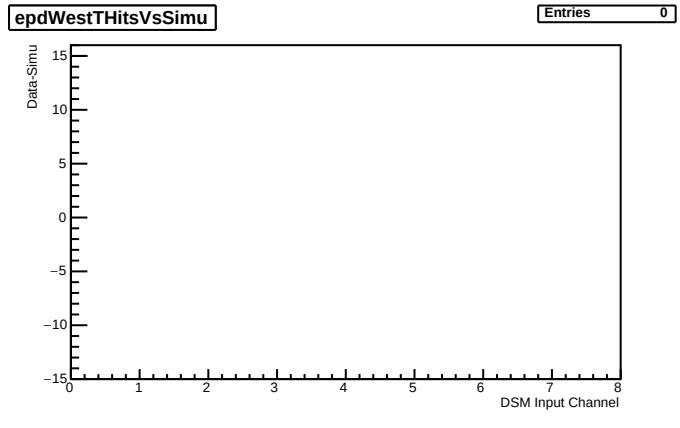

epdEastTHits
Entries 34168
Truncated NHits
DSMInput Channel

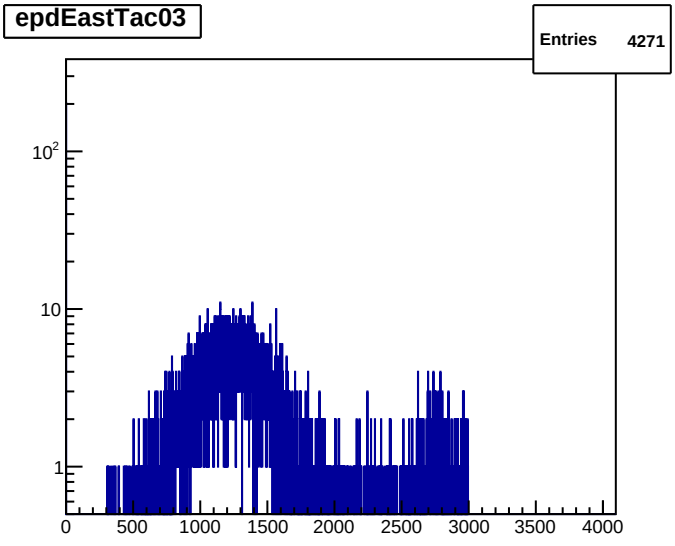

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

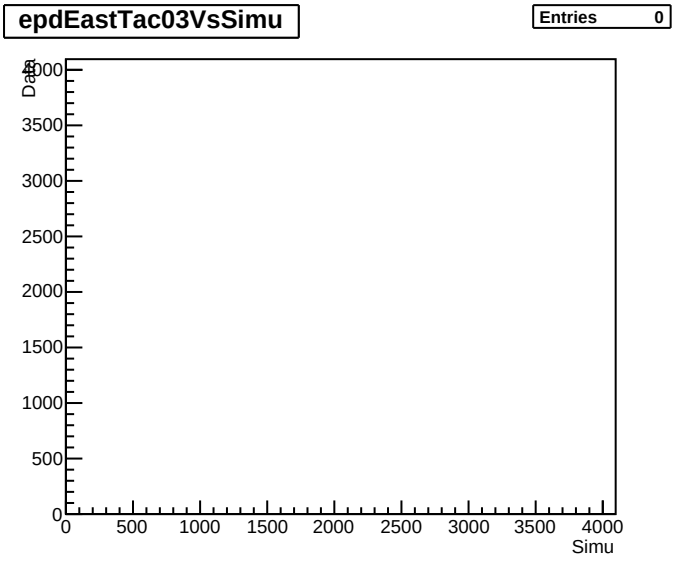

epdWestTacMax
Entries 34168
TAC
DSM Input Channel

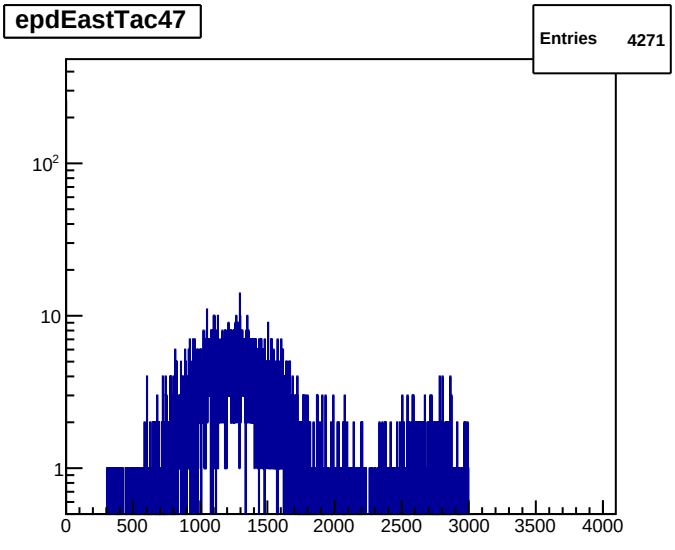

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

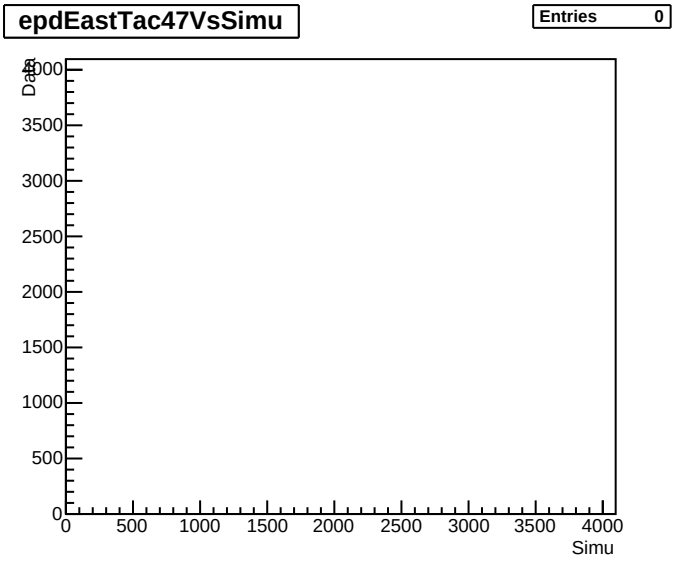

epdWestTHits
Entries 34168
Truncated NHits
DSMInput Channel

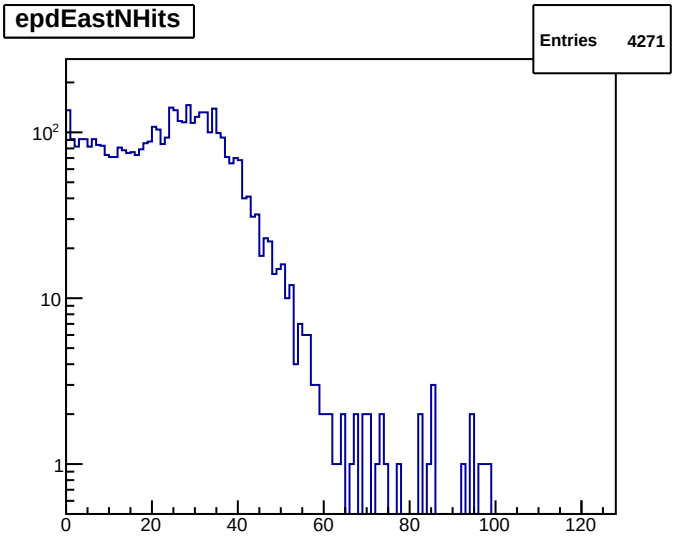

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

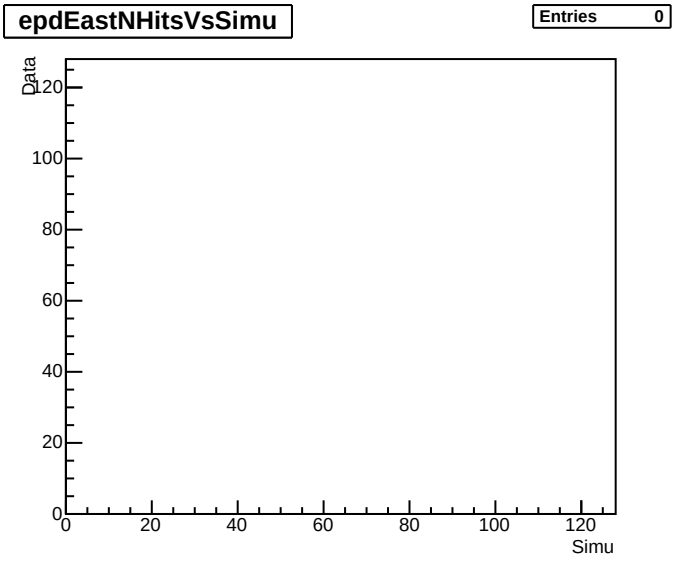

epdEastTac03
Entries 4271
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

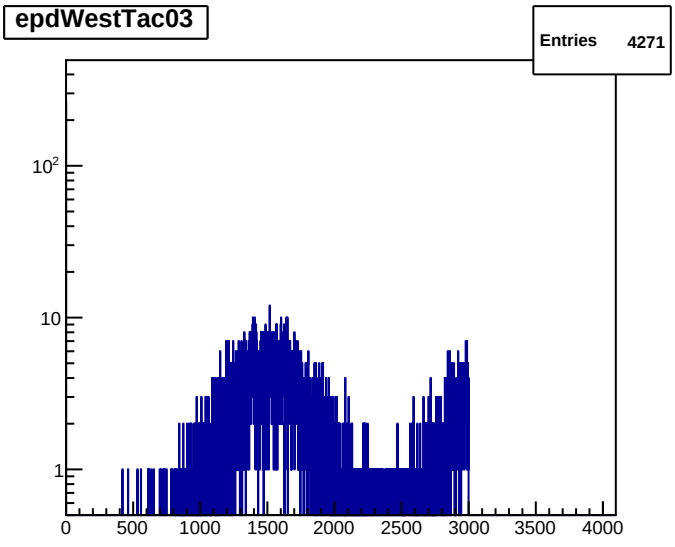

epdEastTac03VsSimu
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

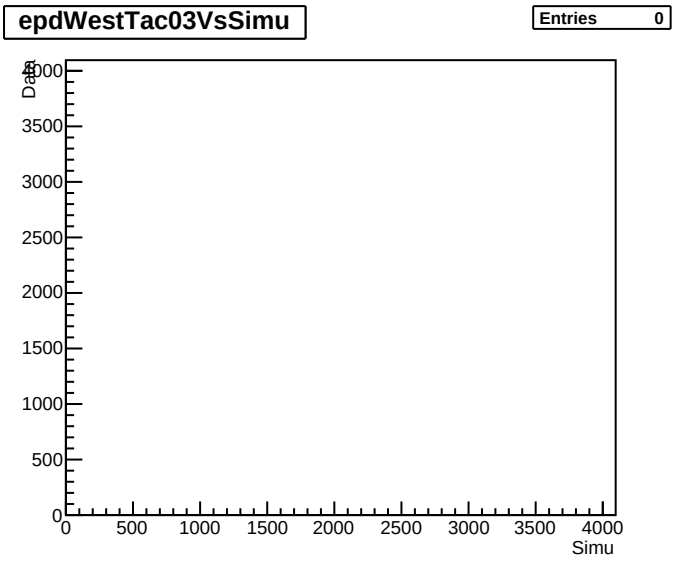

epdEastTac47
Entries 4271
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

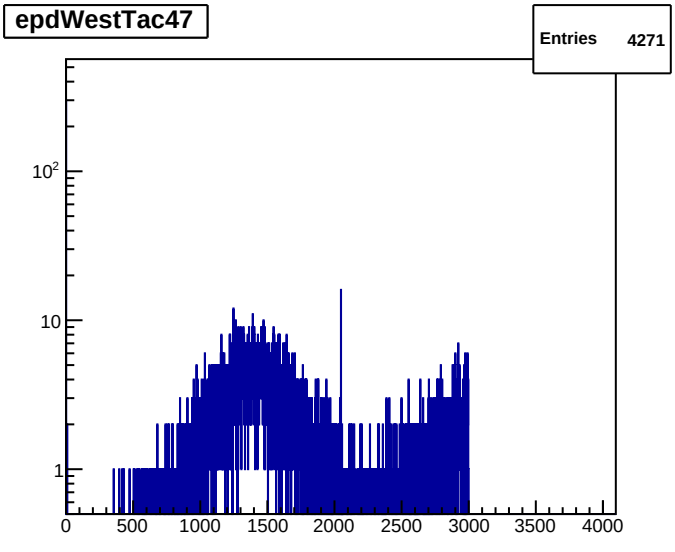

epdEastTac47VsSimu
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

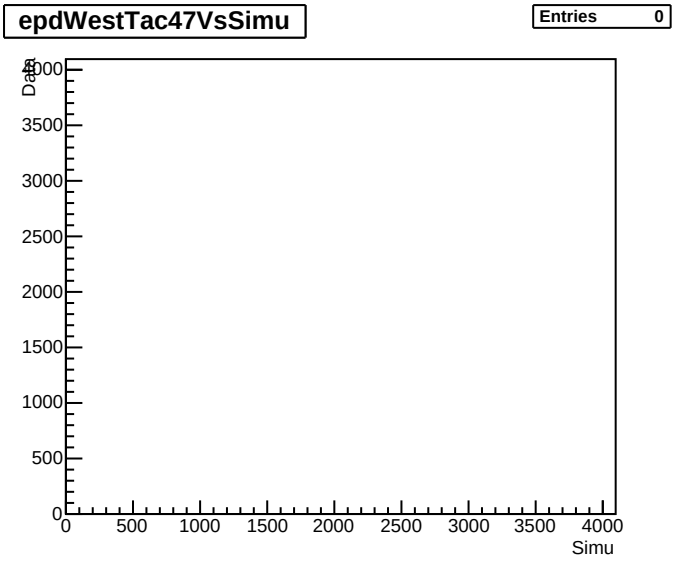

epdEastNHits
Entries 4271
10^2
10
1
0 20 40 60 80 100 120

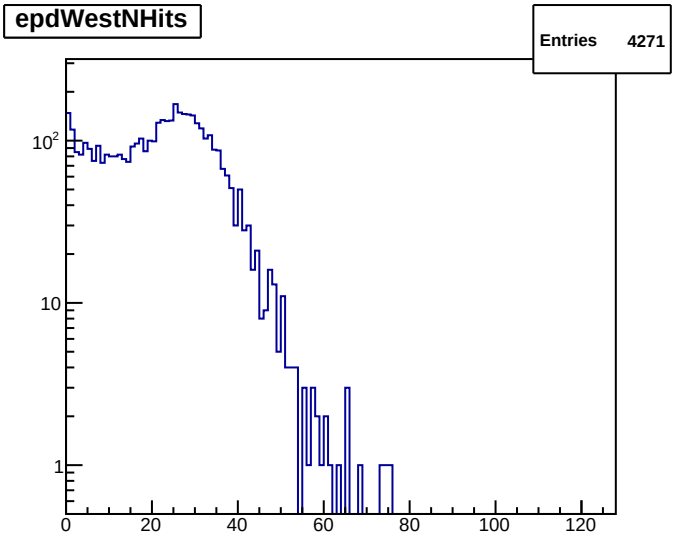

epdEastNHitsVsSimu
Entries 0
Data
120 100 80 60 40 20 0
0 20 40 60 80 100 120
Simu

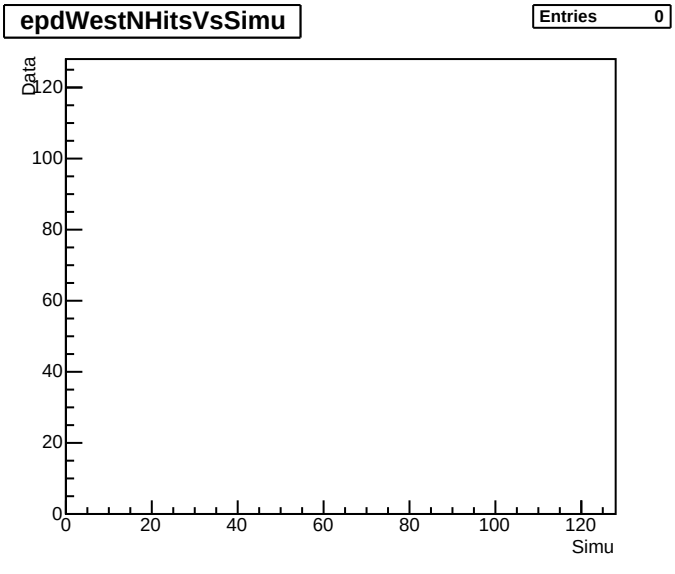

epdWestTac03
Entries 4271
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

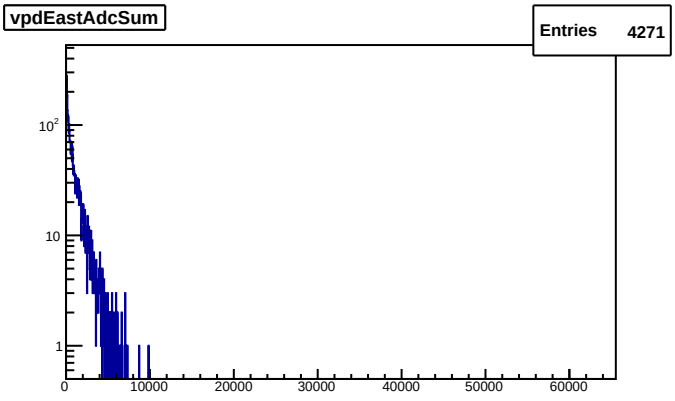

epdWestTac03VsSimu
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

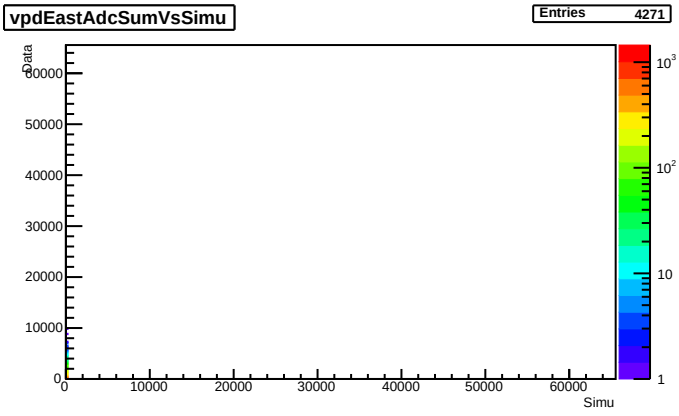

epdWestTac47
Entries 4271
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

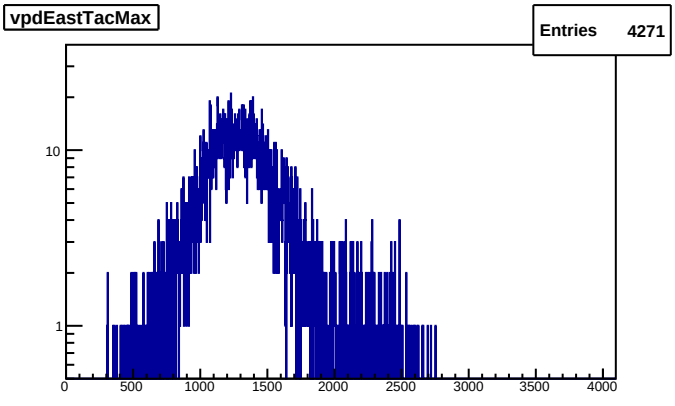

epdWestTac47VsSimu
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

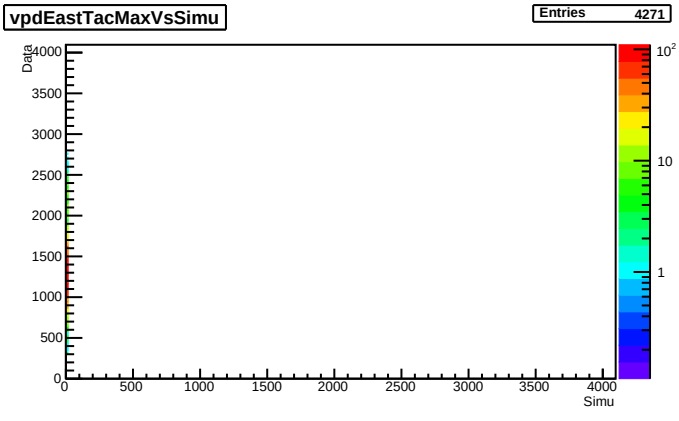

epdWestNHits
Entries 4271
10^2
10
1
0 20 40 60 80 100 120

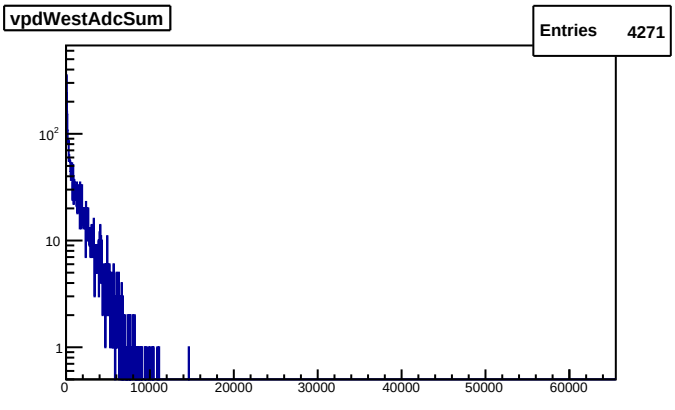

epdWestNHitsVsSimu
Entries 0
Data
120 100 80 60 40 20 0
0 20 40 60 80 100 120
Simu

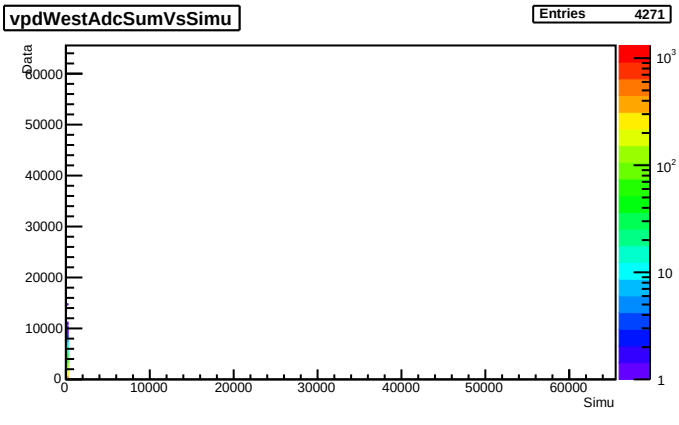

vpdEastAdcSum
Entries 4271

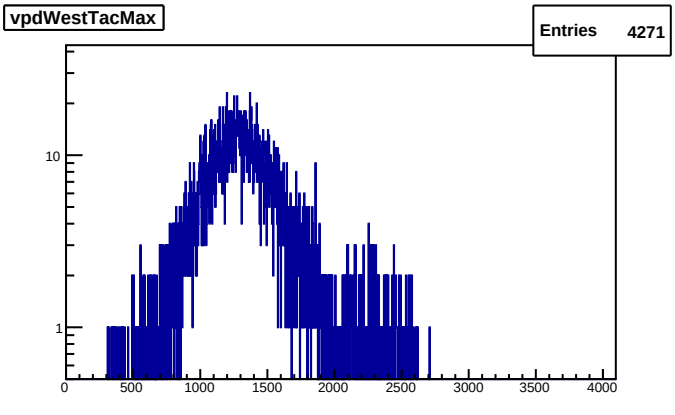

vpdEastAdcSumVsSimu
Entries 4271
Data
Simu

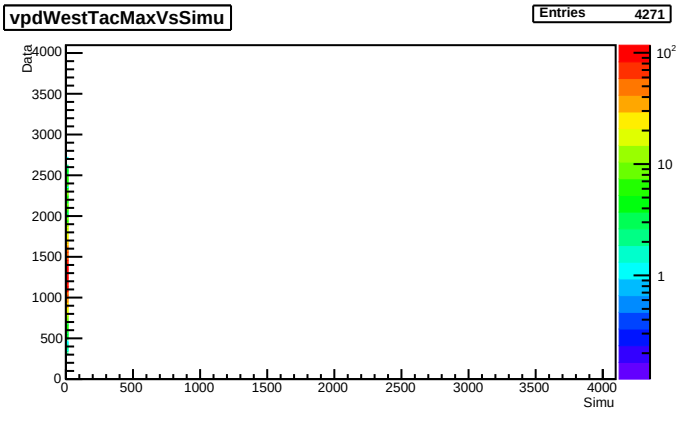

vpdEastTacMax
Entries 4271

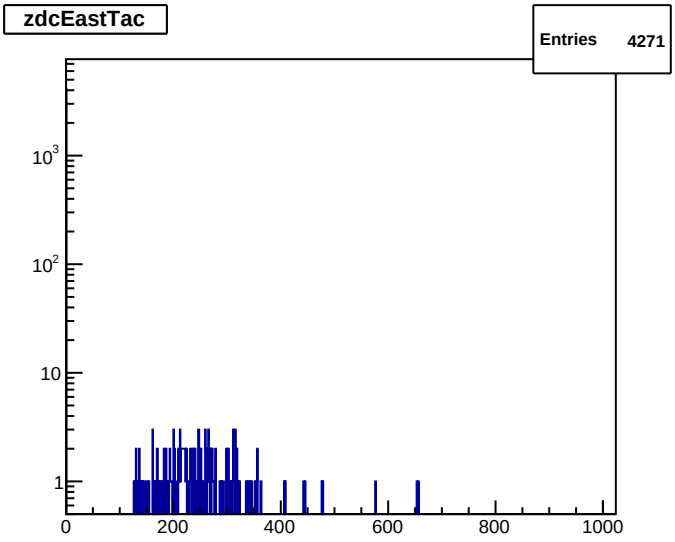

vpdEastTacMaxVsSimu
Entries 4271
Data
Simu

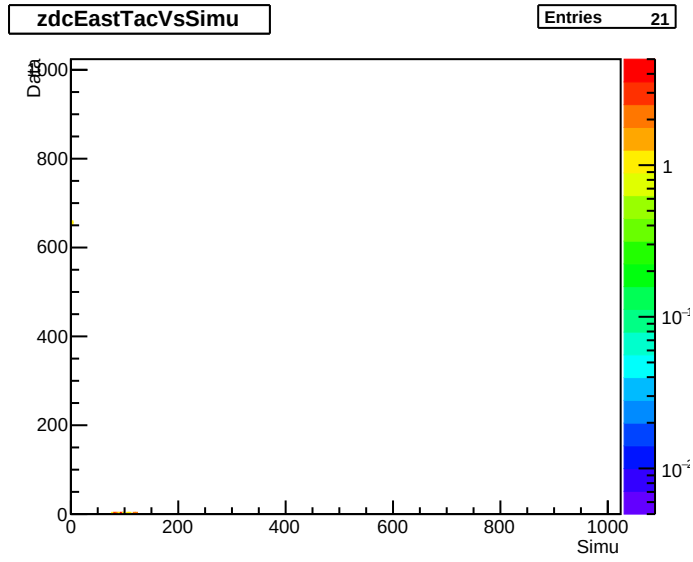

vpdWestAdcSum
Entries 4271

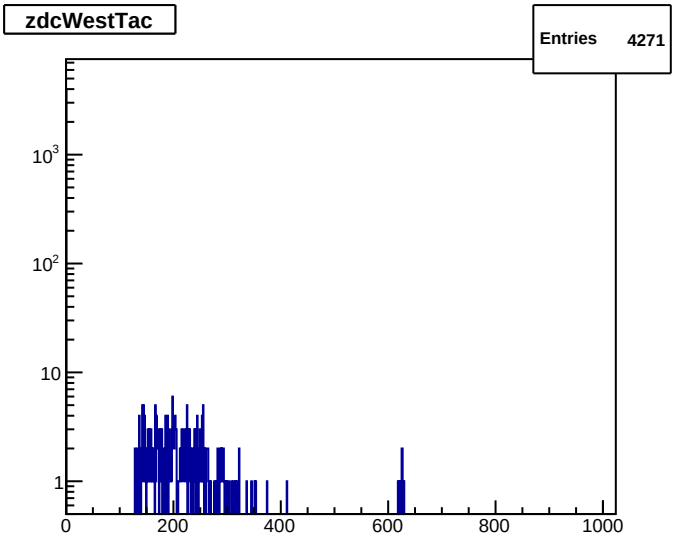

vpdWestAdcSumVsSimu
Entries 4271
Data
Simu

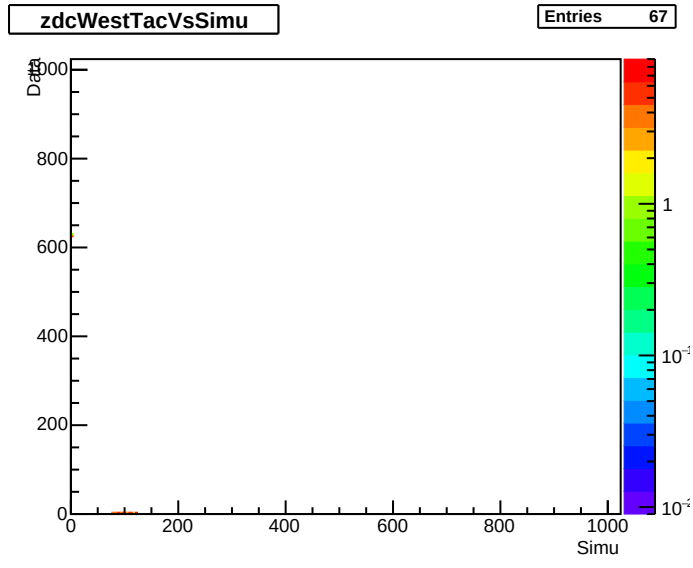

vpdWestTacMax
Entries 4271

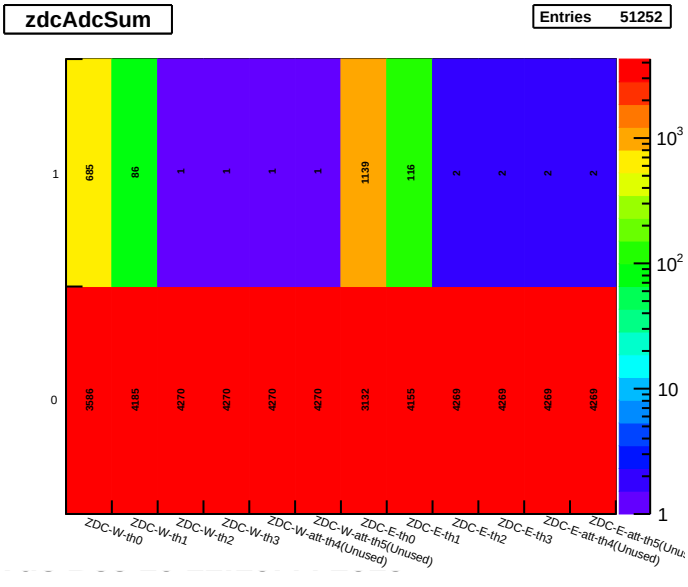

vpdWestTacMaxVsSimu
Entries 4271
Data
Simu

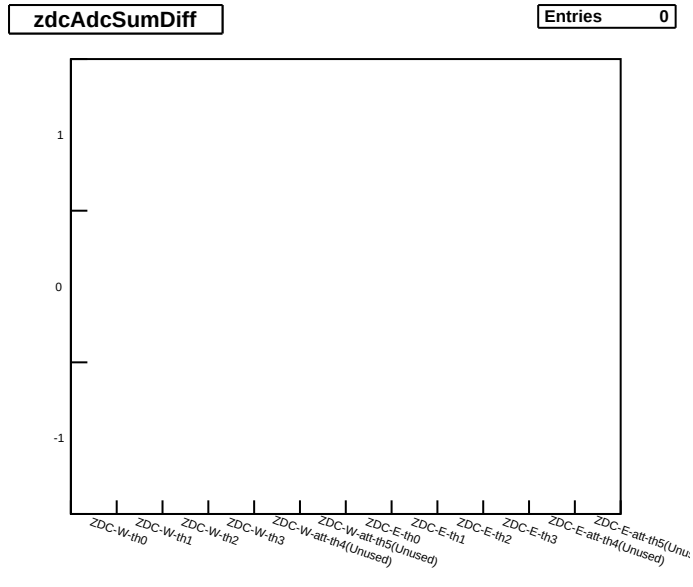

zdcEastTac
Entries 4271
10^3
10^2
10
1
0
200
400
600
800
1000

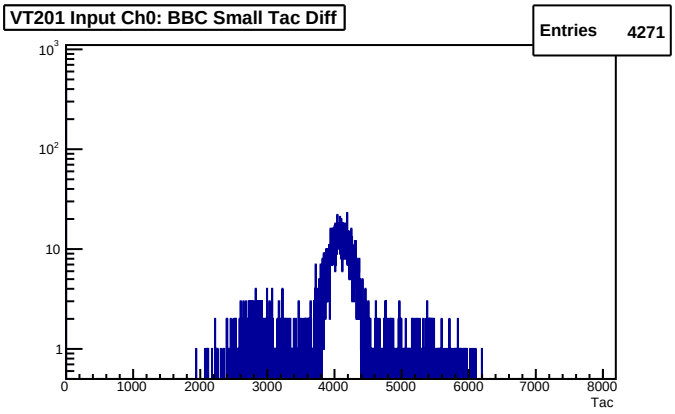

zdcEastTacVsSimu
Entries 21
Data
1000
800
600
400
200
0
Simu
1
10^{-1}
10^{-2}

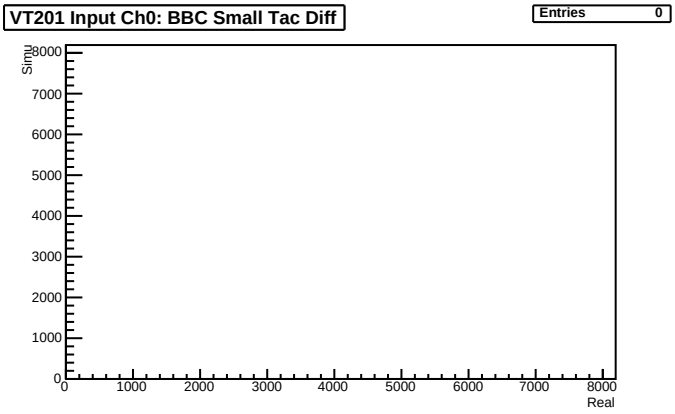

zdcWestTac
Entries 4271
10^3
10^2
10
1
0
200
400
600
800
1000

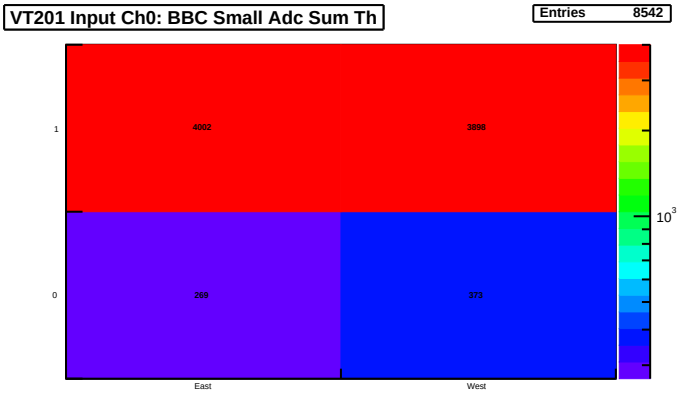

zdcWestTacVsSimu
Entries 67
Data
1000
800
600
400
200
0
Simu
1
10^{-1}
10^{-2}

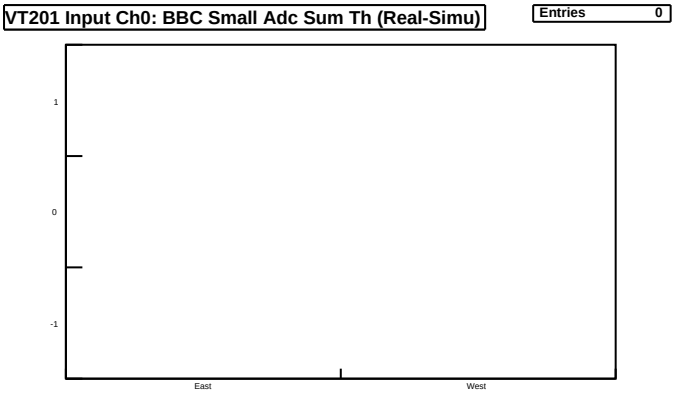

zdcAdcSum
Entries 51252
1
0
685
86
1
1
1
1
1139
116
2
2
2
2
3586
4185
4270
4270
4270
4270
3132
4155
4269
4269
4269
4269
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

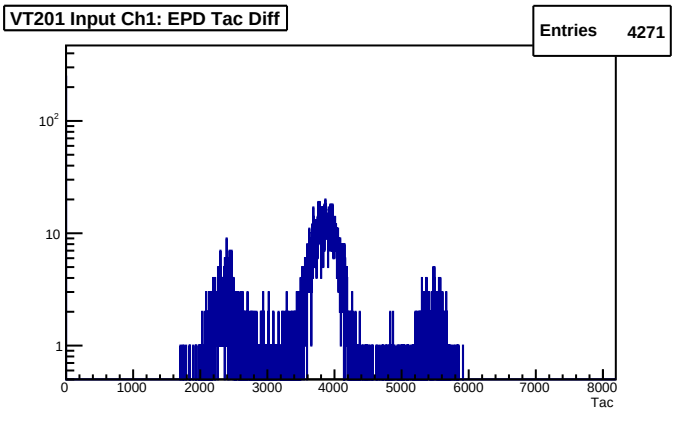

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

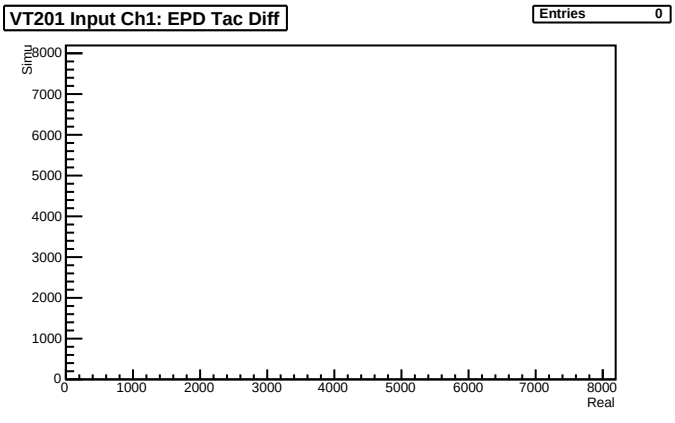

VT201 Input Ch0: BBC Small Tac Diff
Entries 4271
Tac

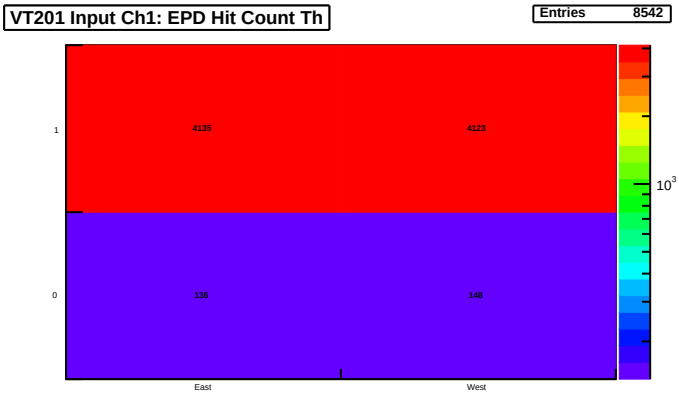

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

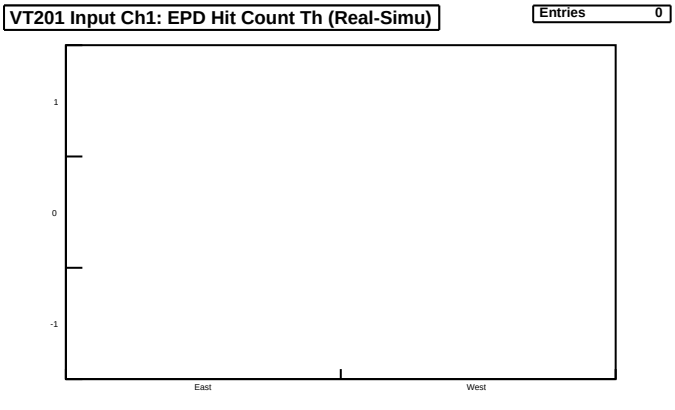

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 8542
4002
3898
269
373
East
West

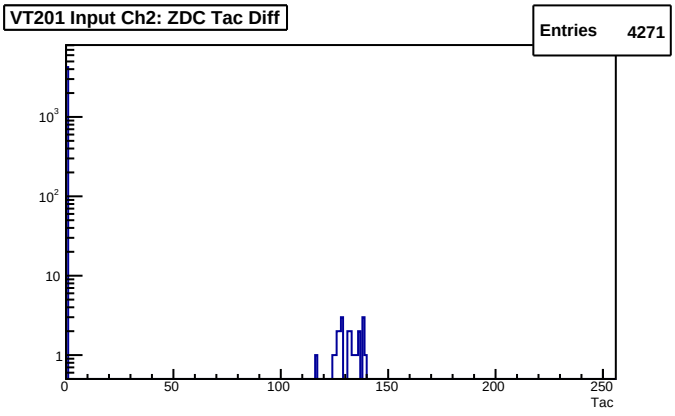

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

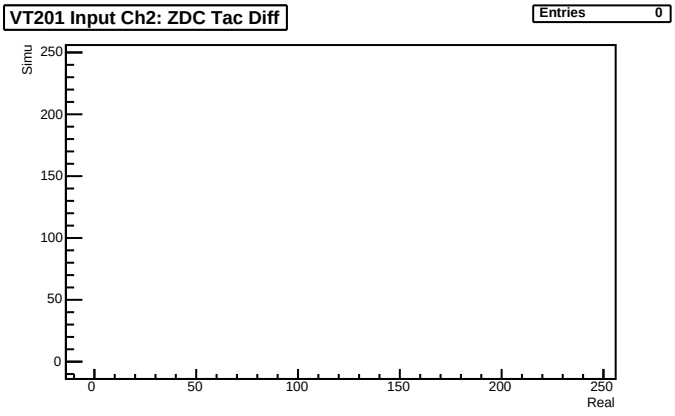

VT201 Input Ch1: EPD Tac Diff
Entries 4271
Tac

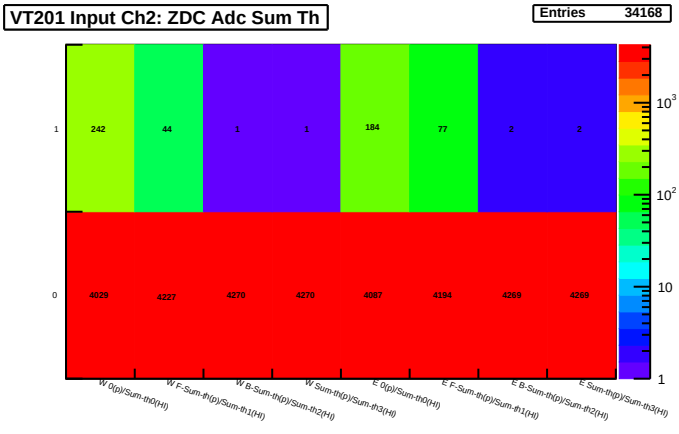

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

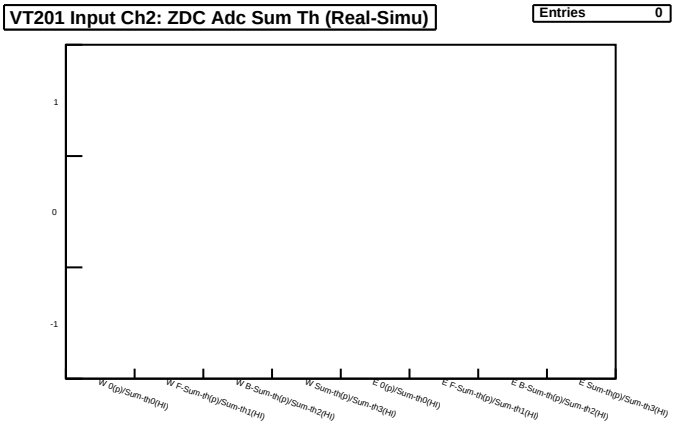

VT201 Input Ch1: EPD Hit Count Th
Entries 8542
4135
4123
136
148
East
West

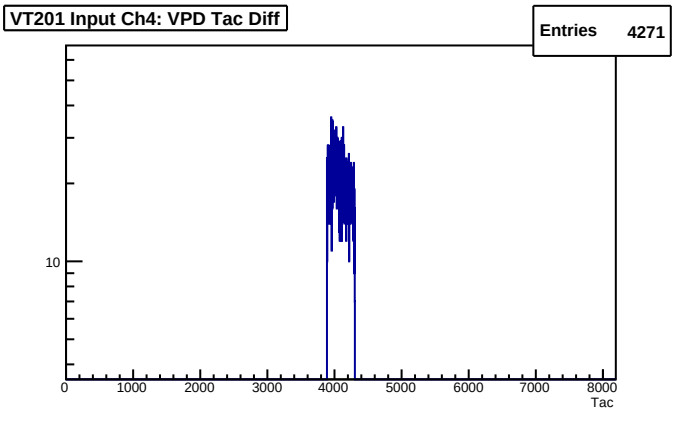

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

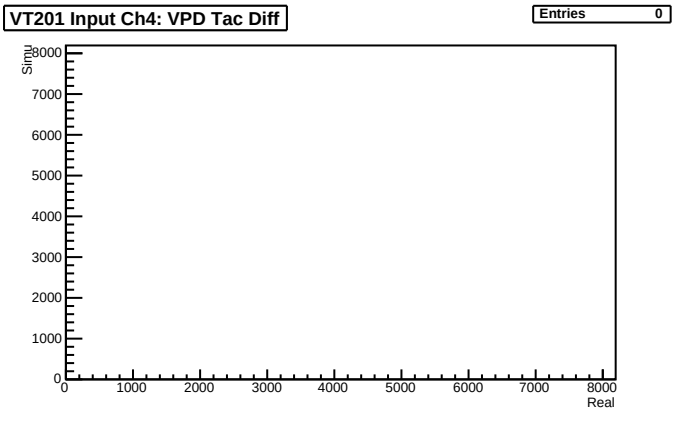

VT201 Input Ch2: ZDC Tac Diff
Entries 4271
Tac

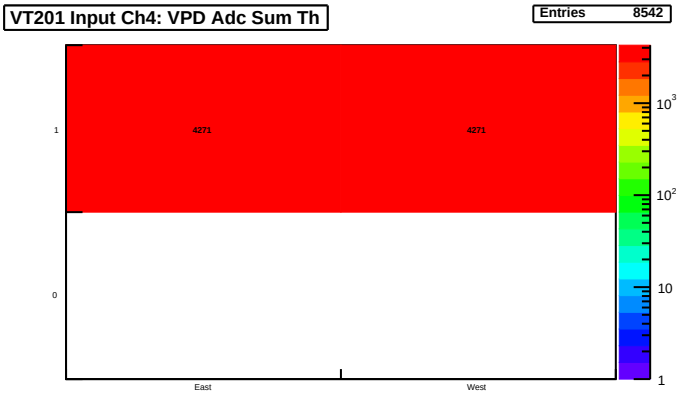

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

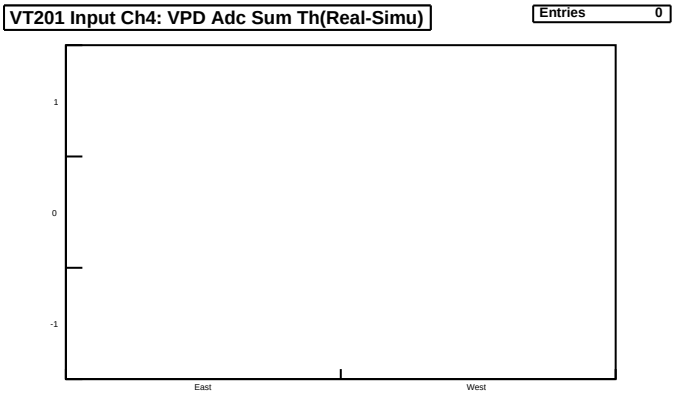

VT201 Input Ch2: ZDC Adc Sum Th
Entries 34168
242 44 1 1 184 77 2 2
4029 4227 4270 4270 4087 4194 4269 4269
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

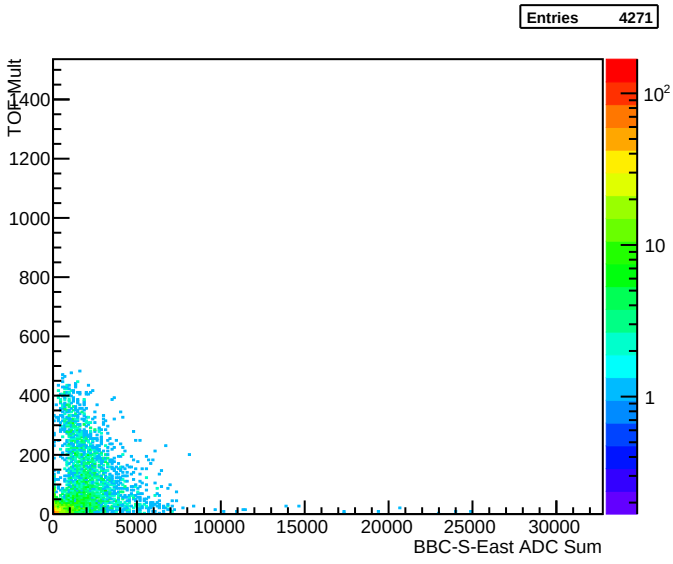

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

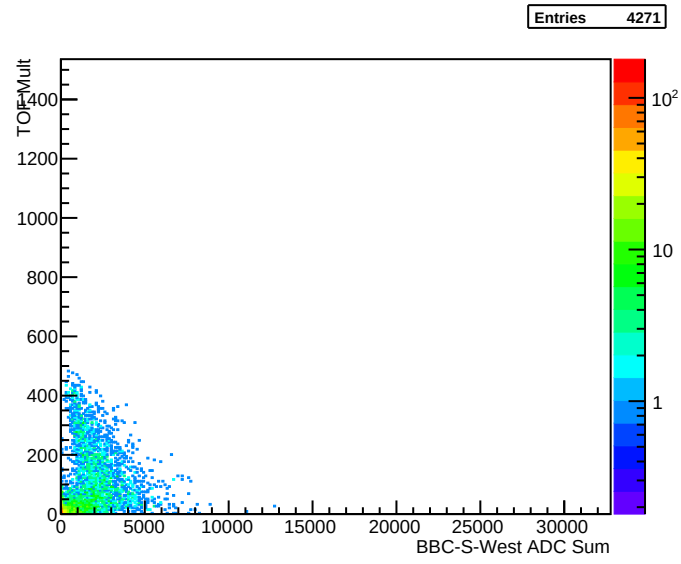

VT201 Input Ch4: VPD Tac Diff
Entries 4271
Tac

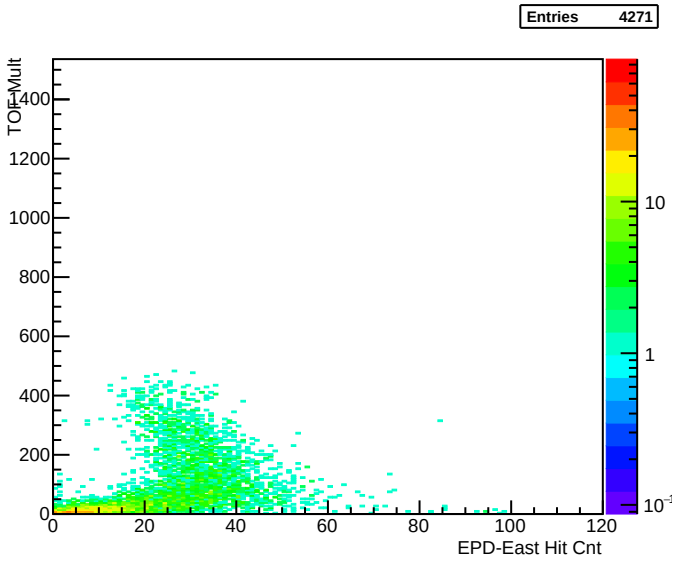

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

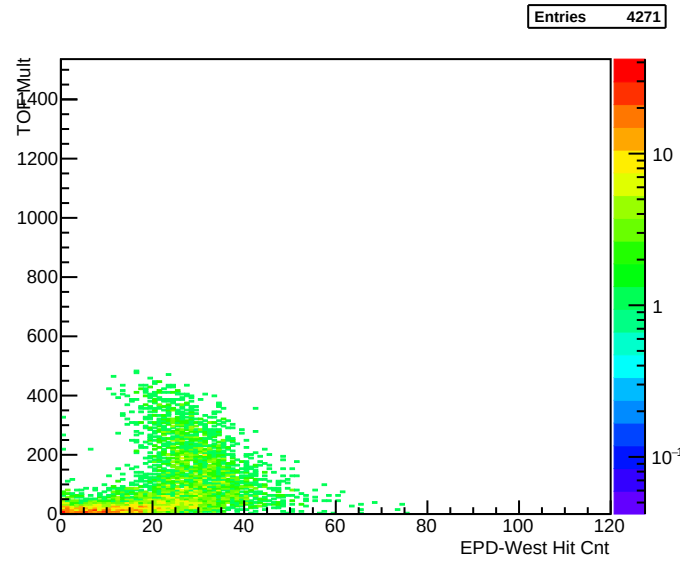

VT201 Input Ch4: VPD Adc Sum Th
Entries 8542
4271 4271
East
West

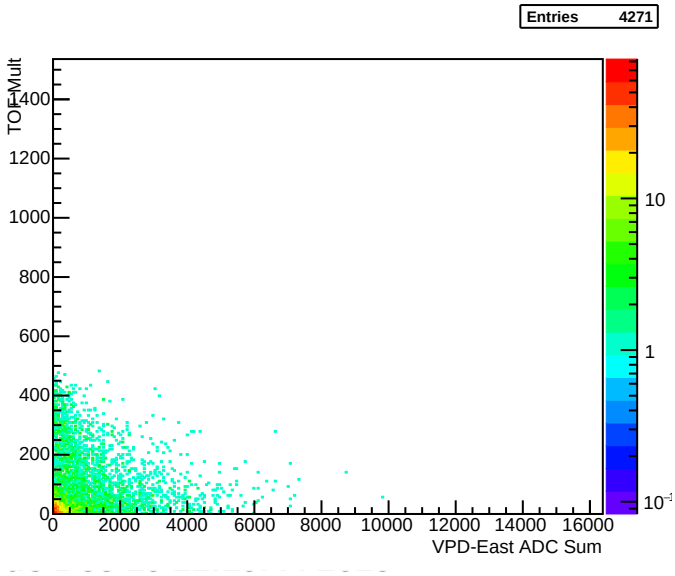

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

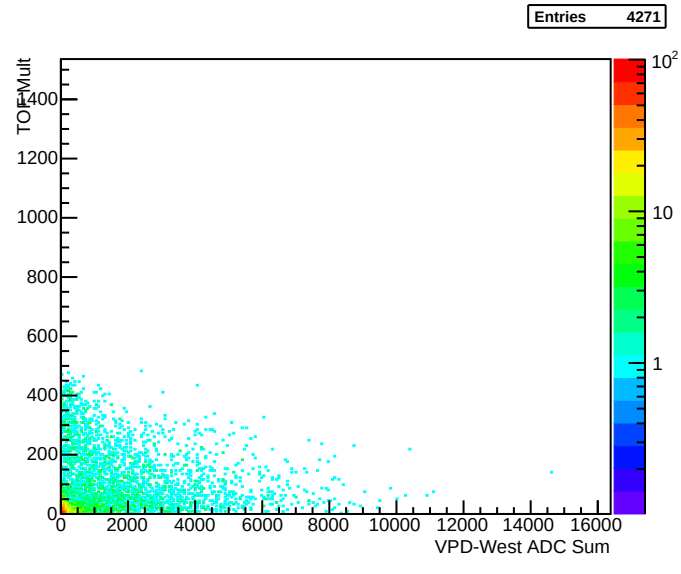

Entries 4271
TOF-Mult
BBC-S-East ADC Sum

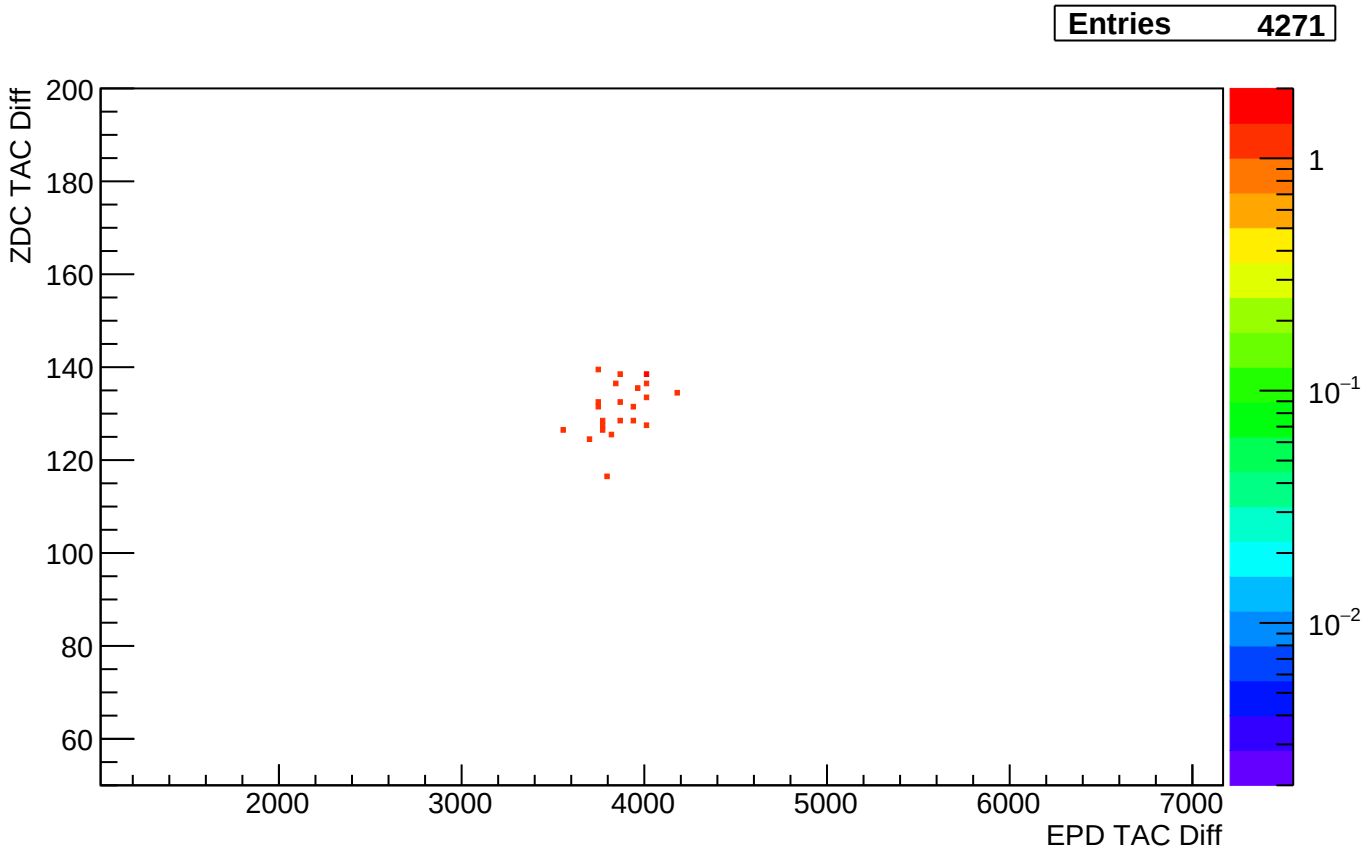

Entries 4271
TOF-Mult
BBC-S-West ADC Sum

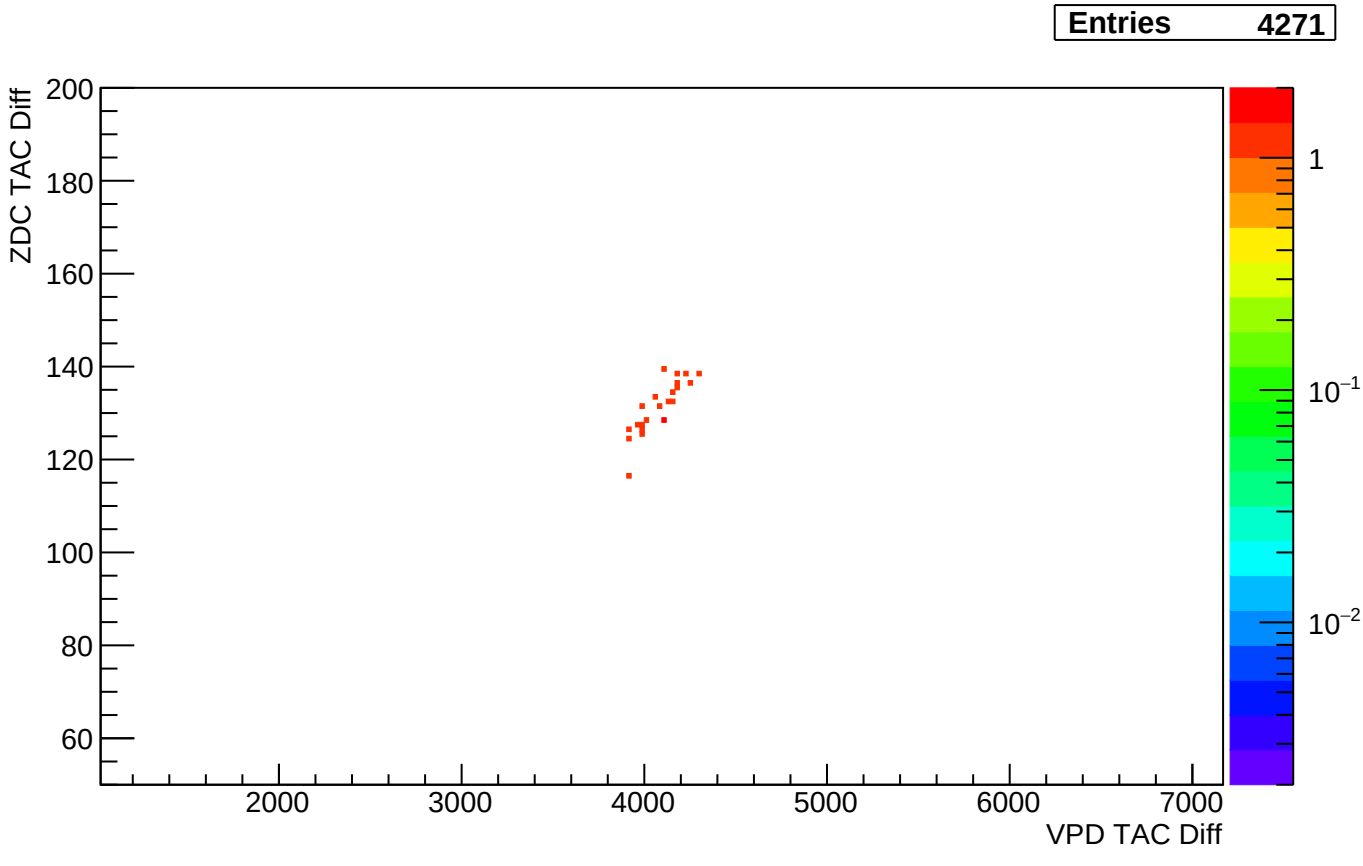

Entries 4271
TOF-Mult
EPD-East Hit Cnt

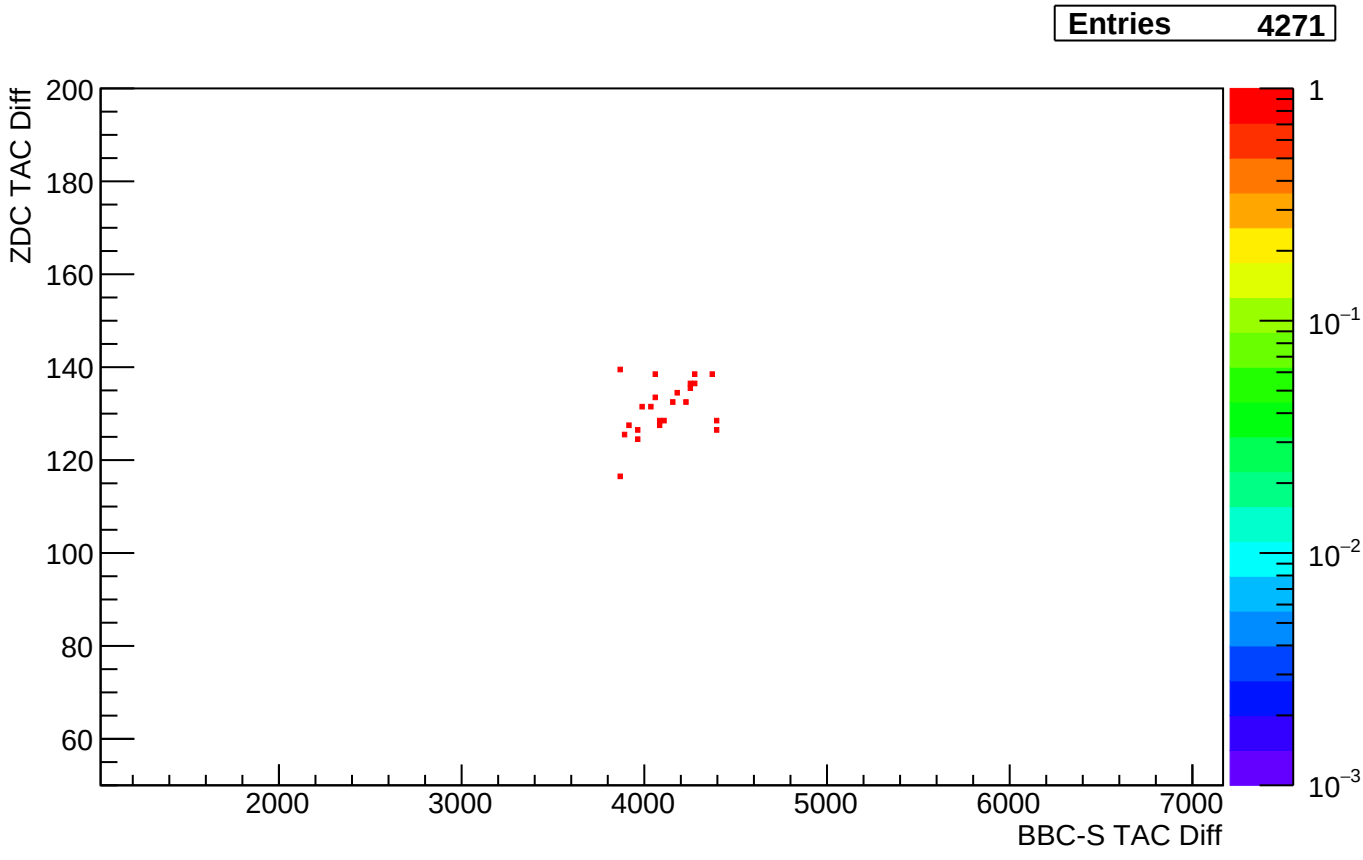

Entries 4271
TOF-Mult
EPD-West Hit Cnt

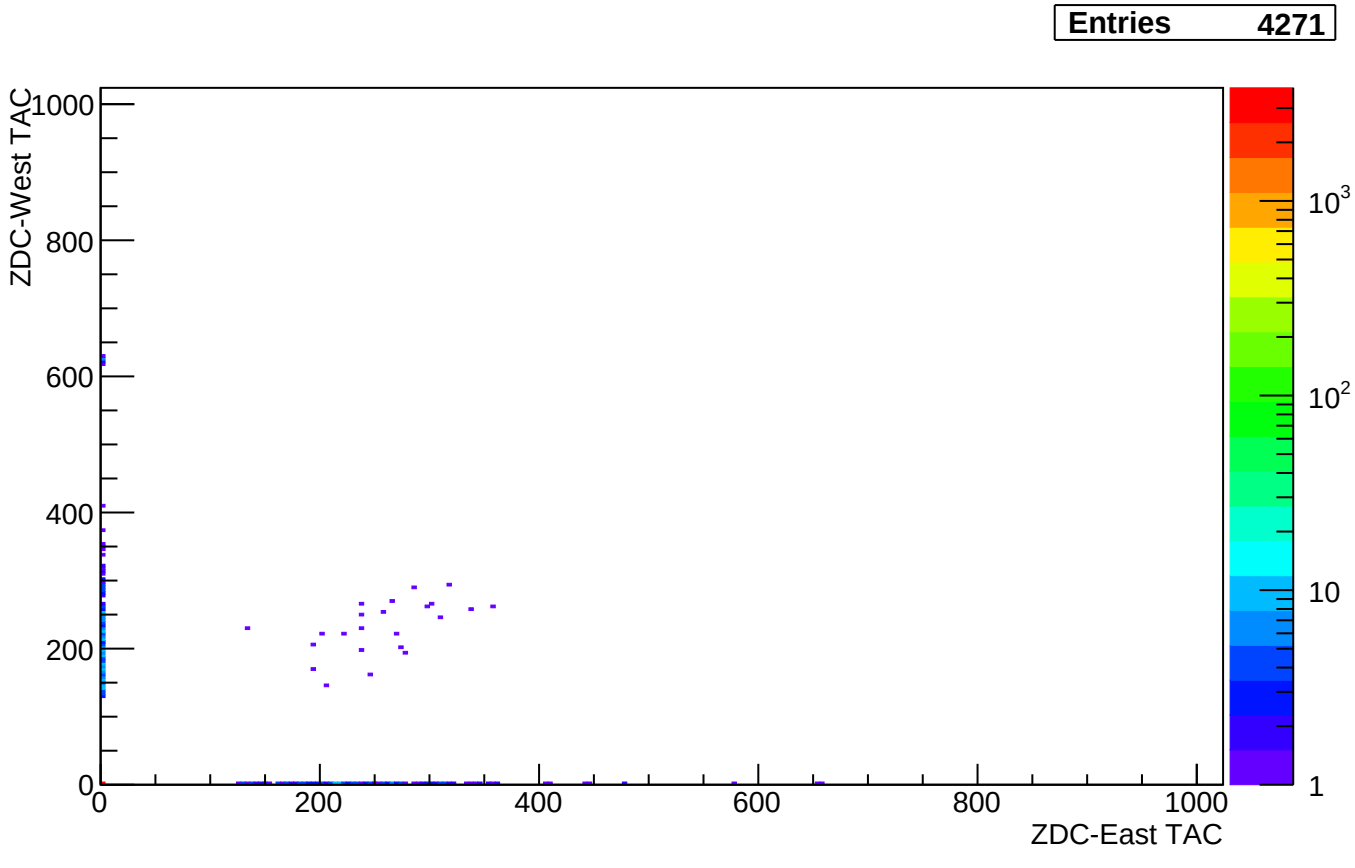

Entries 4271
TOF-Mult
VPD-East ADC Sum

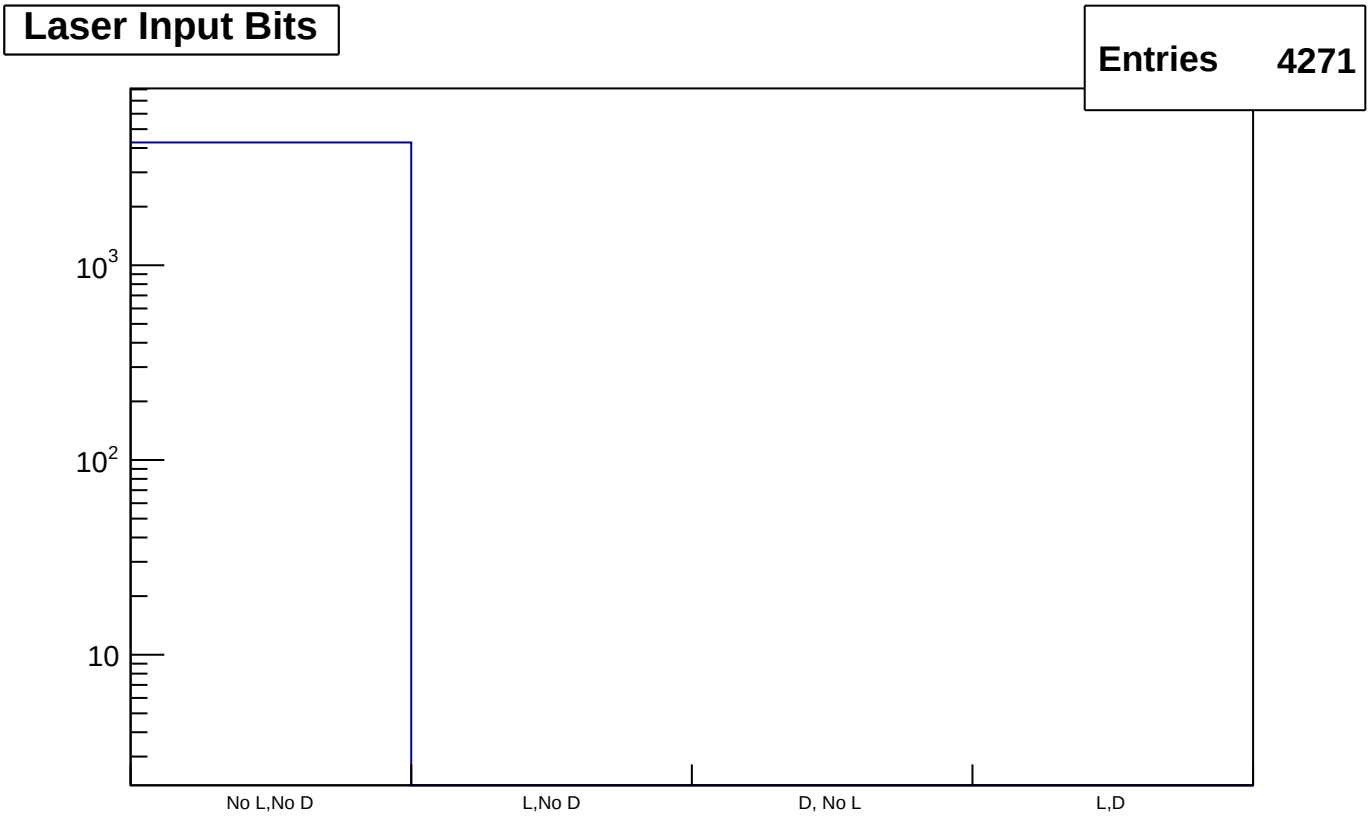

Entries 4271
TOF-Mult
VPD-West ADC Sum

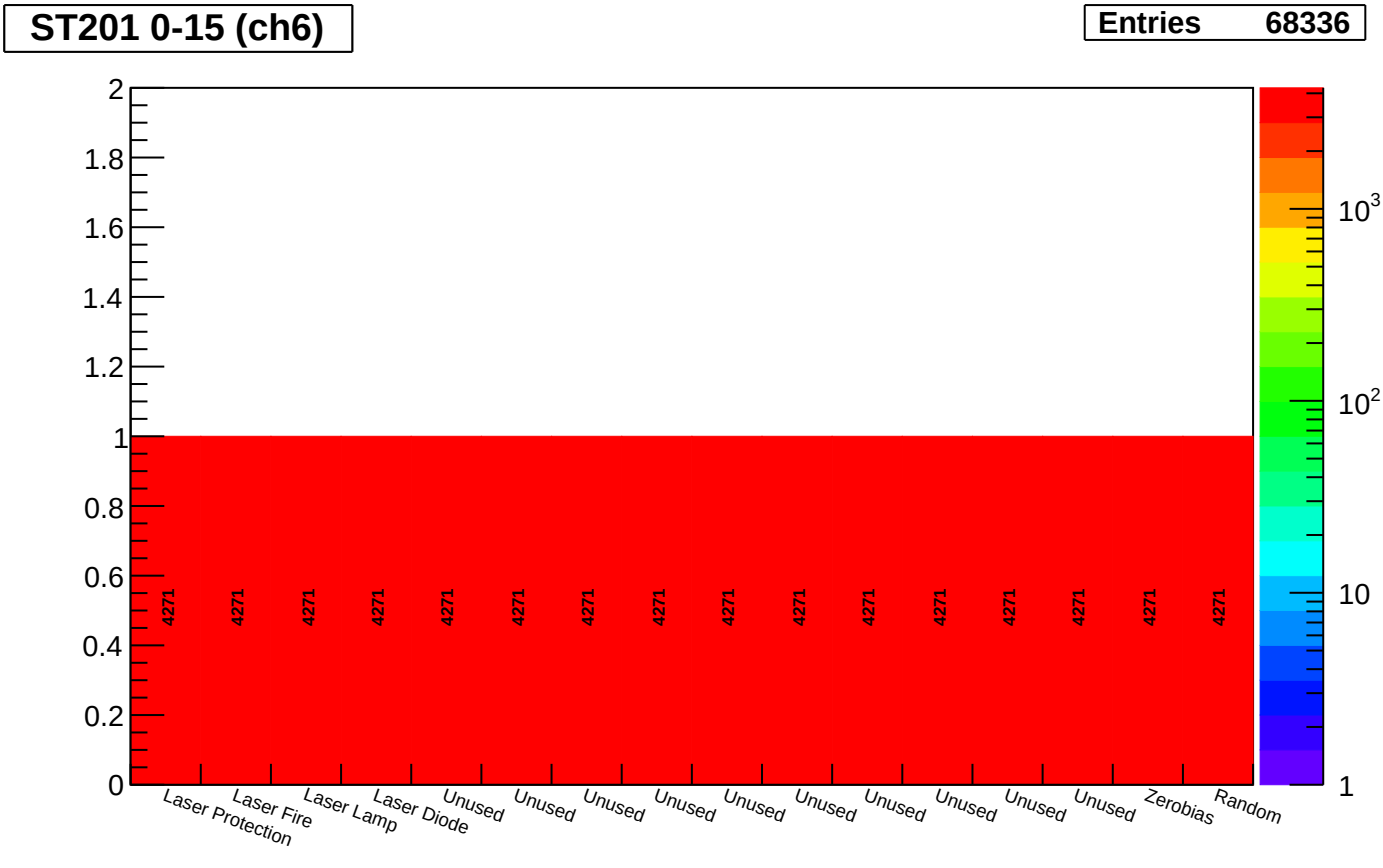

Entries 4271
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

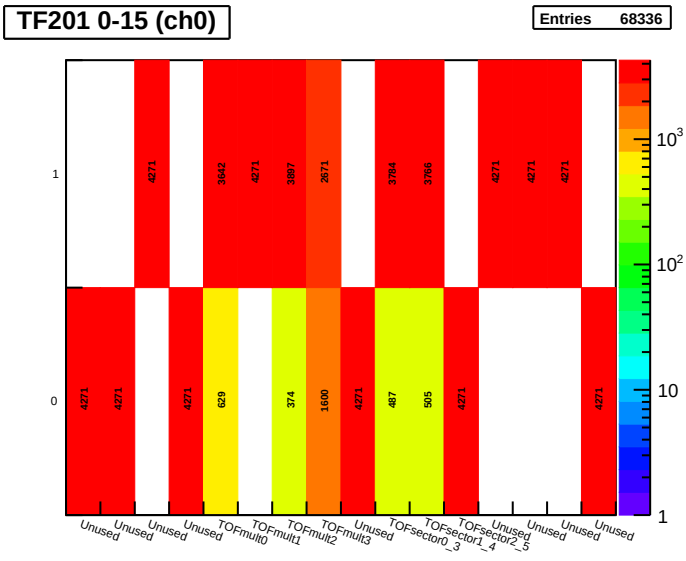

Entries 4271
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

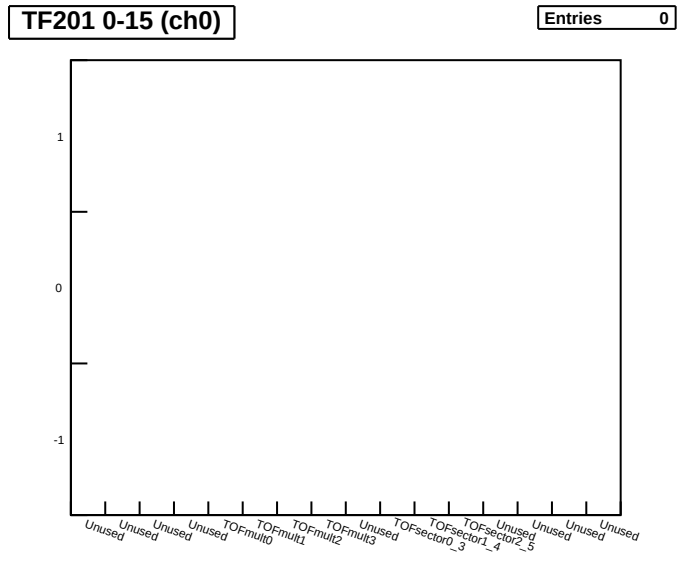

Entries 4271
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

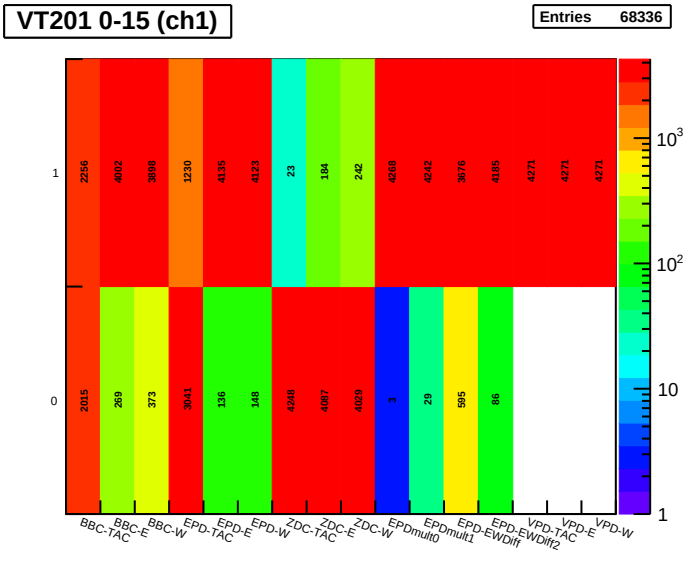

Entries 4271
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^3
10^2
10
1

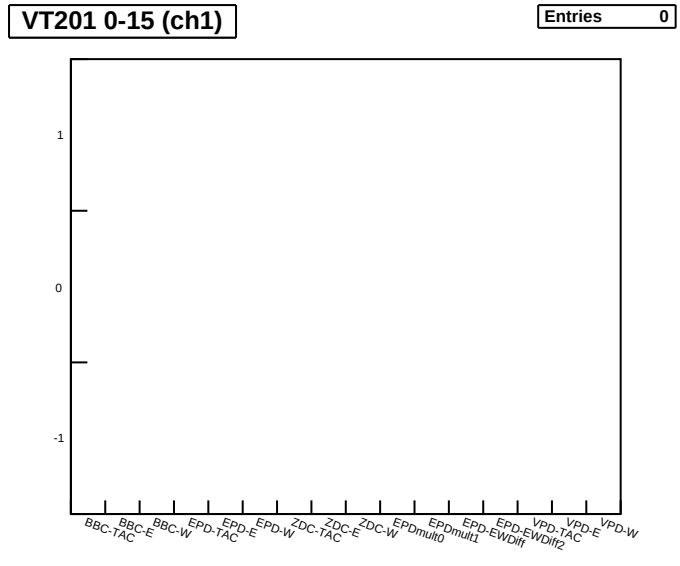

Laser Input Bits
Entries 4271
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

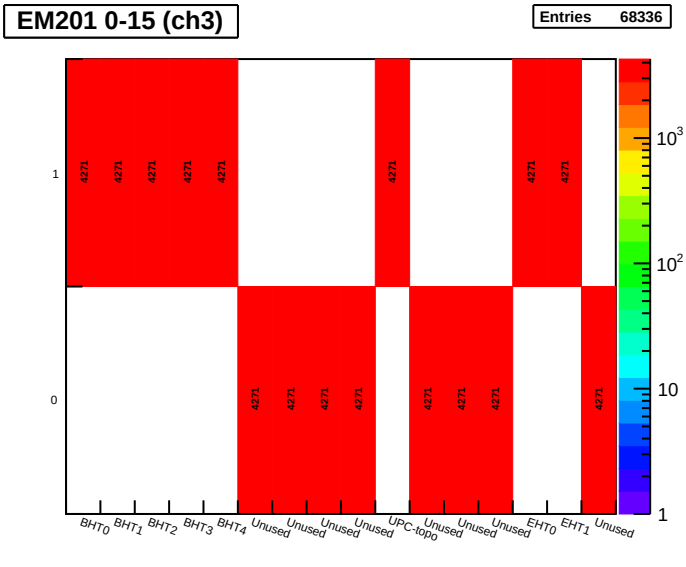

ST201 0-15 (ch6)
Entries 68336
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4271
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

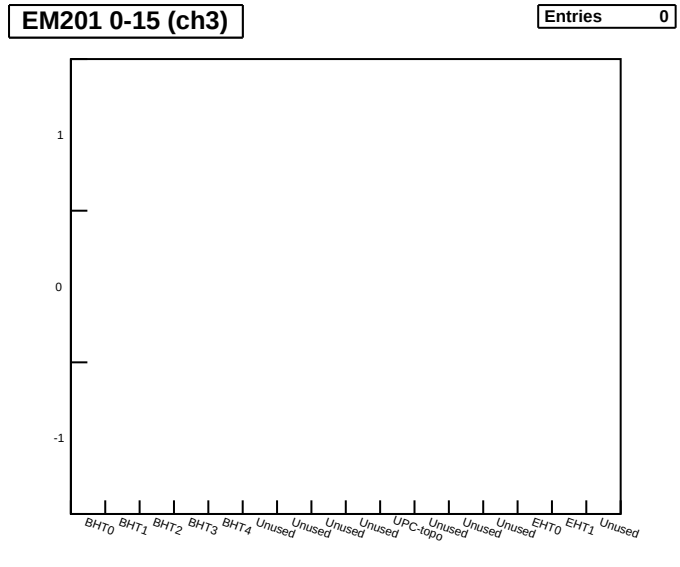

TF201 0-15 (ch0)
Entries 68336
1
0
4271 3642 4271 3897 2671 3784 3766 4271 4271 4271
4271 4271 4271 629 374 1600 4271 487 505 4271 4271
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused
10^3
10^2
10
1


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 68336
1
0
2256 4002 3998 1230 4135 4123 23 184 242 4268 4242 3676 4185 4271 4271 4271
2015 269 373 3041 136 148 4248 4087 4029 3 29 595 86
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
10^3
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 68336
1
0
4271 4271 4271 4271 4271 4271 4271 4271
4271 4271 4271 4271 4271 4271 4271 4271
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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