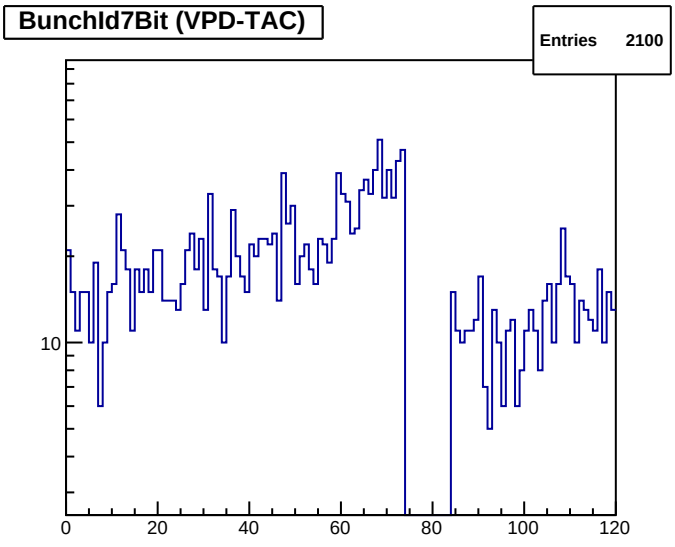
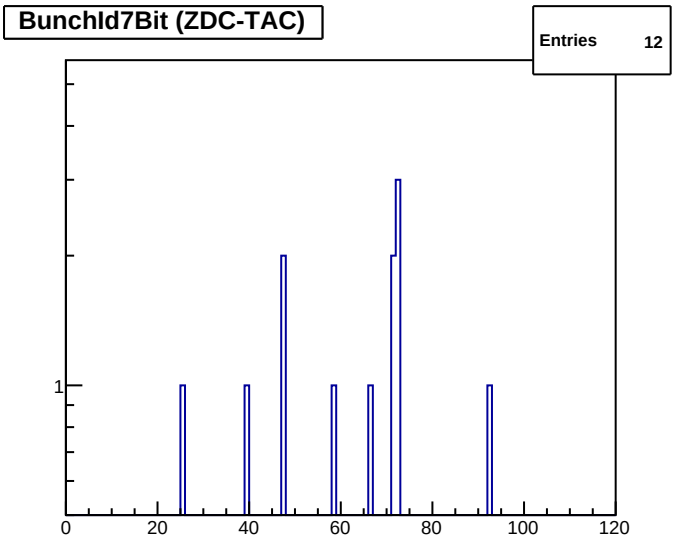
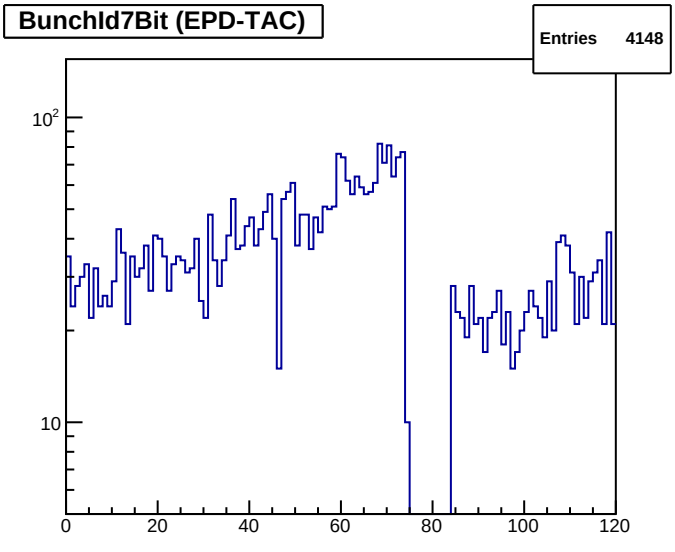
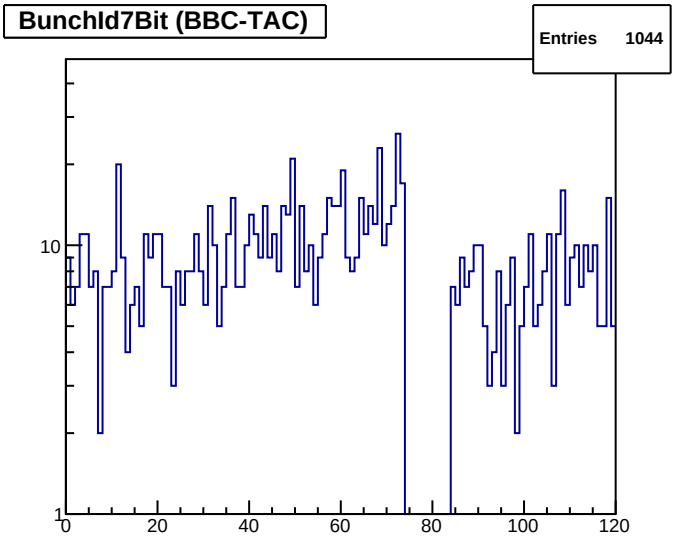
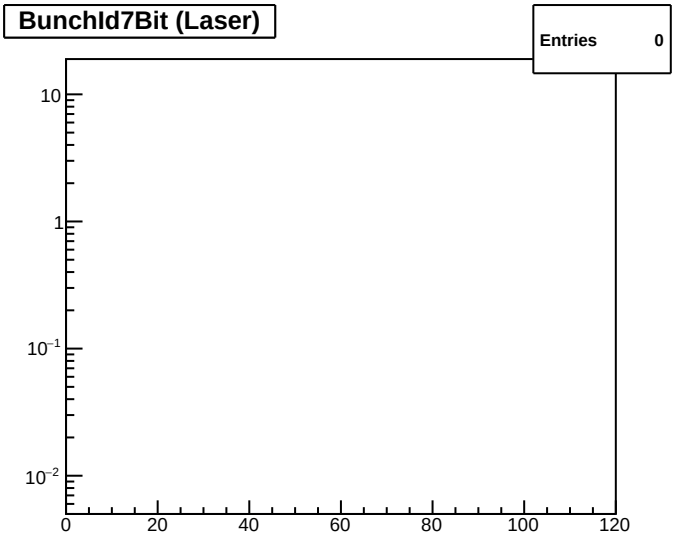
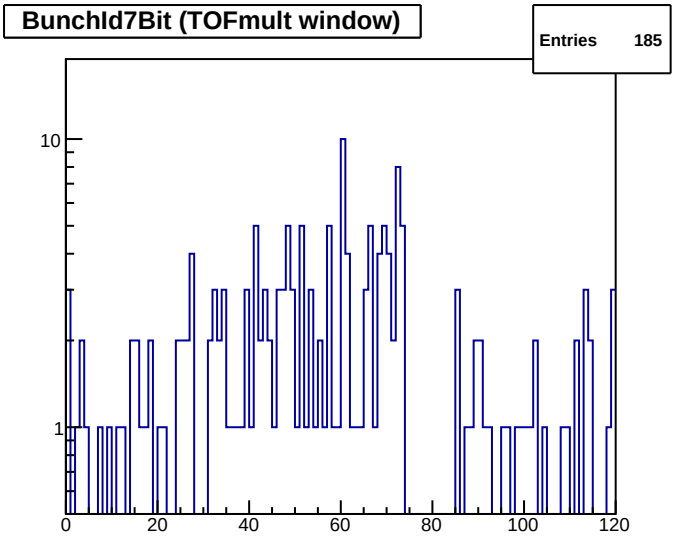

BunchId7Bit (VPD-TAC)
Entries 2100
10
0 20 40 60 80 100 120

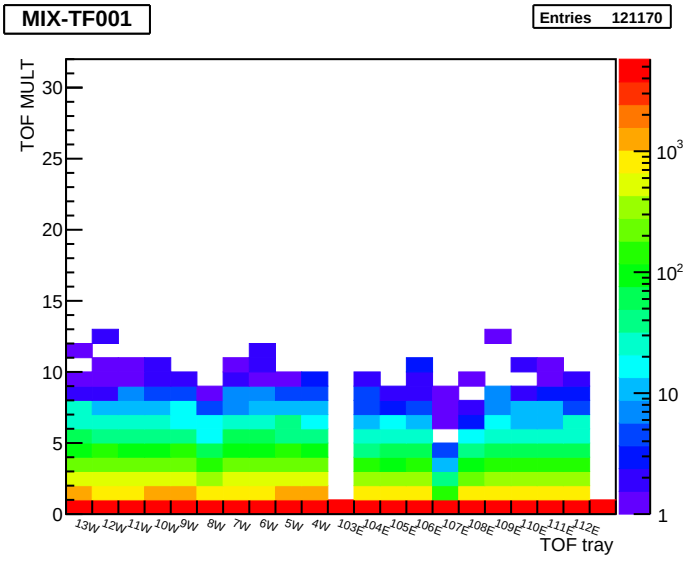

BunchId7Bit (ZDC-TAC)
Entries 12
1
0 20 40 60 80 100 120

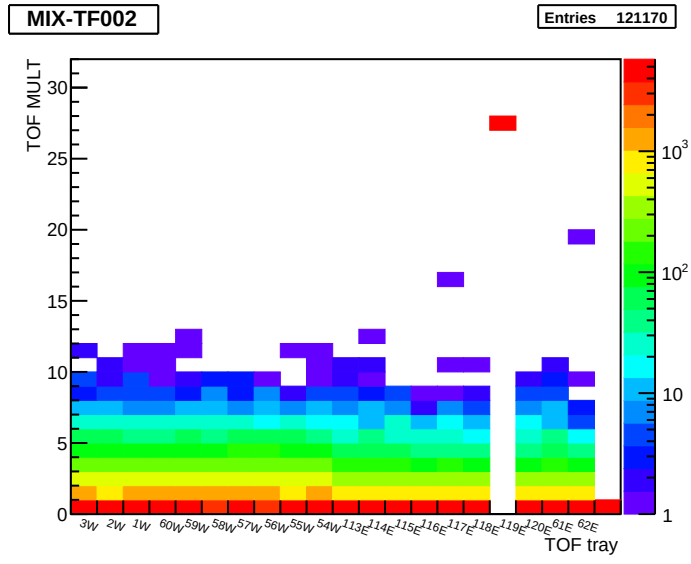

BunchId7Bit (EPD-TAC)
Entries 4148
10^2
10
0 20 40 60 80 100 120

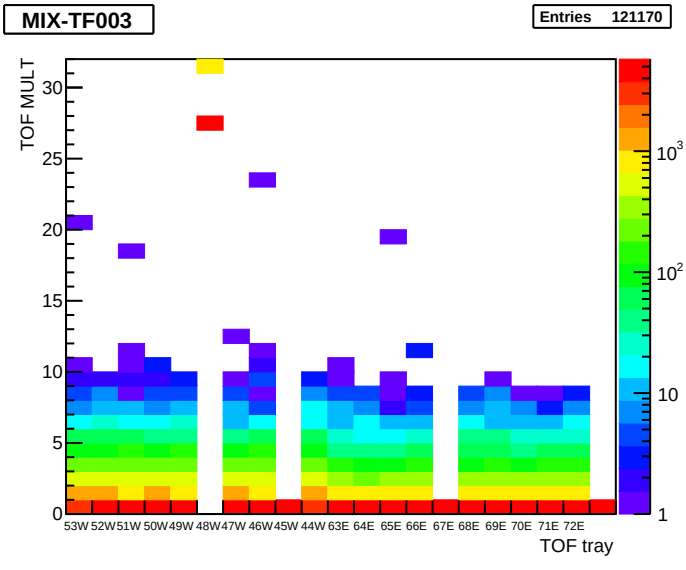

BunchId7Bit (BBC-TAC)
Entries 1044
10
1
0 20 40 60 80 100 120

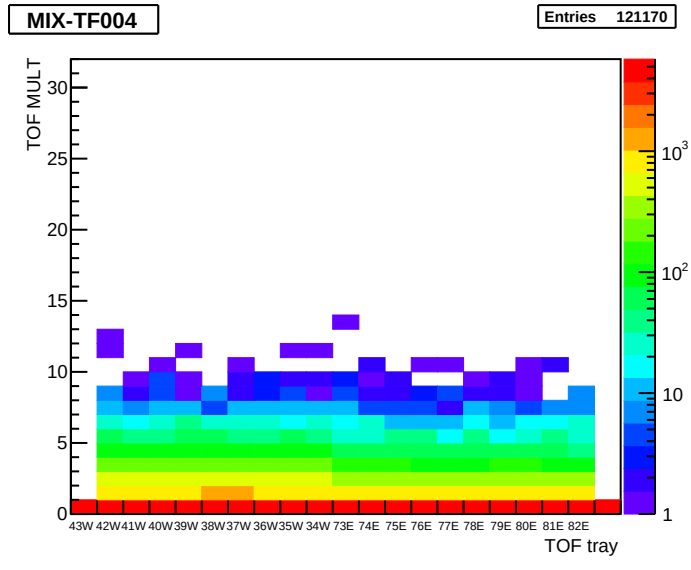

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

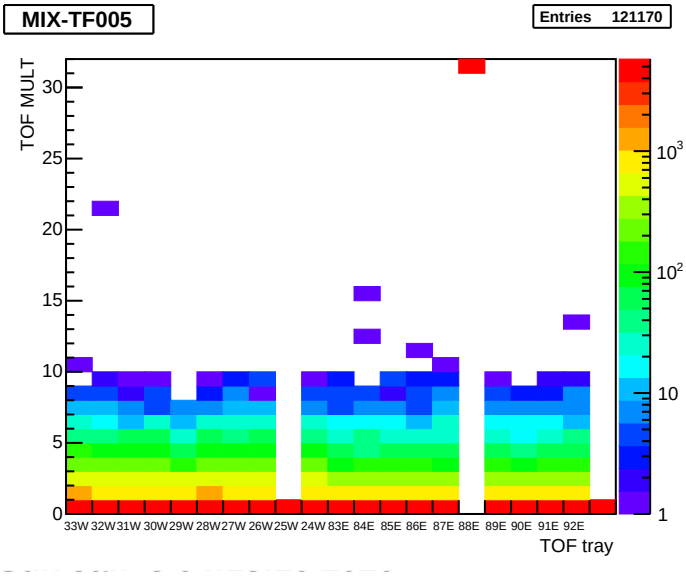

BunchId7Bit (TOFmult window)
Entries 185
10
1
0 20 40 60 80 100 120

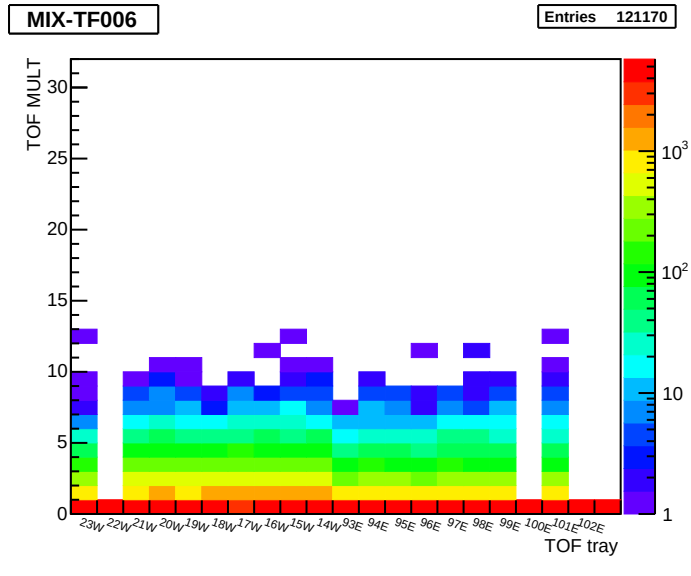

MIX-TF001
Entries 121170
TOF MULT
TOF tray

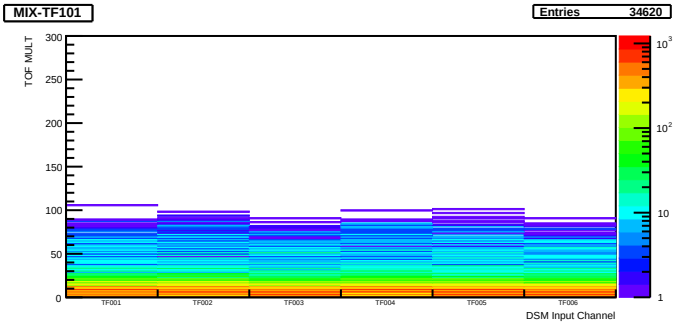

MIX-TF002
Entries 121170
TOF MULT
TOF tray

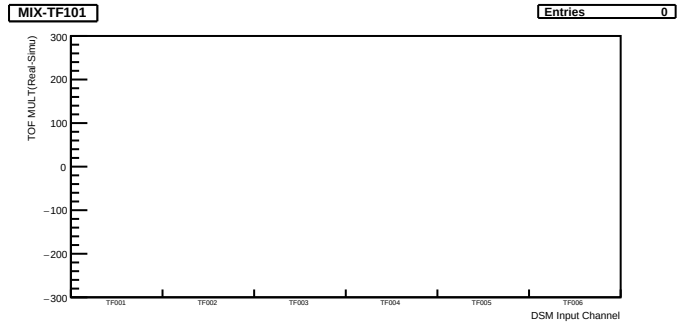

MIX-TF003
Entries 121170
TOF MULT
TOF tray

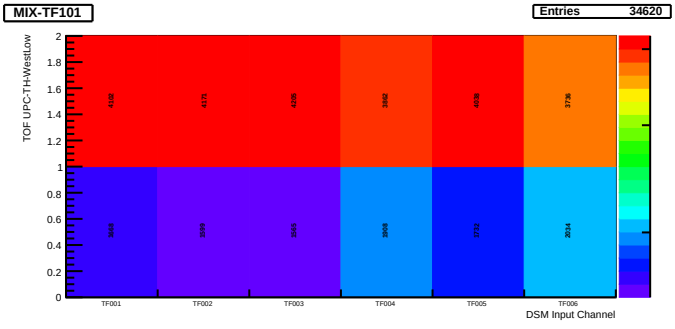

MIX-TF004
Entries 121170
TOF MULT
TOF tray

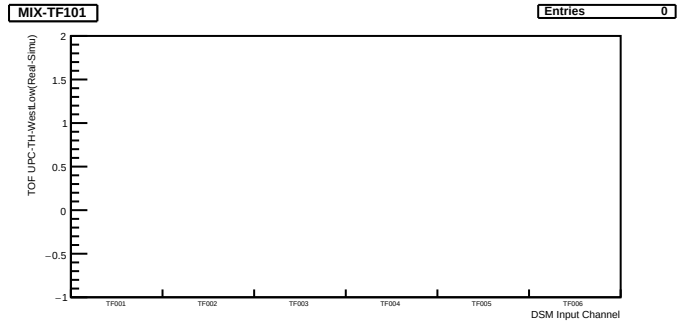

MIX-TF005
Entries 121170
TOF MULT
TOF tray

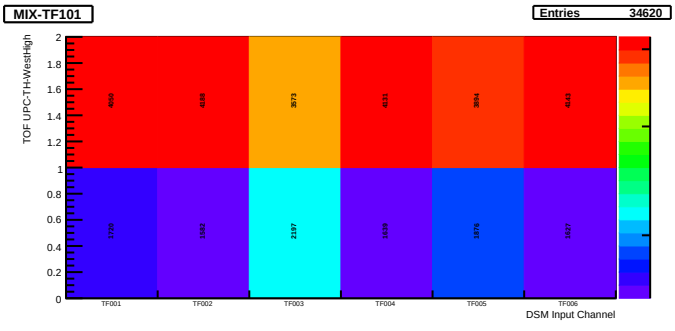

MIX-TF006
Entries 121170
TOF MULT
TOF tray

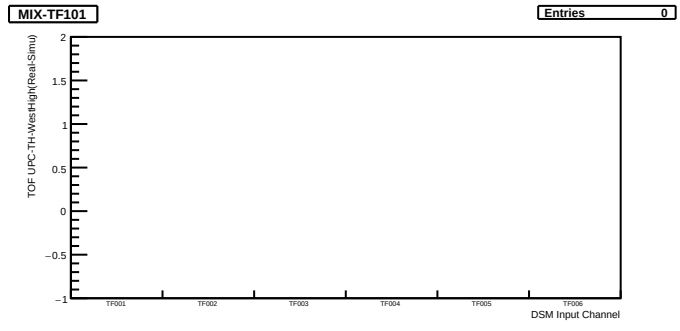

MIX-TF101
Entries 34620
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

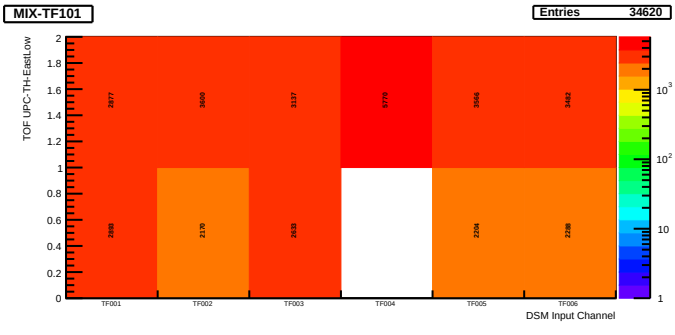

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

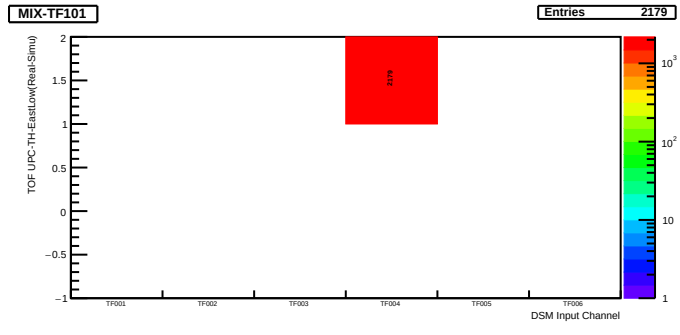

MIX-TF101
Entries 34620
TOF UPC-TH-WestLow
4132
4171
4205
3862
4038
3736
3668
3599
3565
3908
3722
3014
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

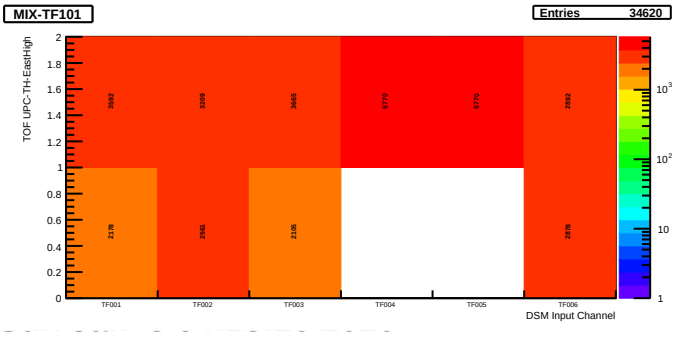

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

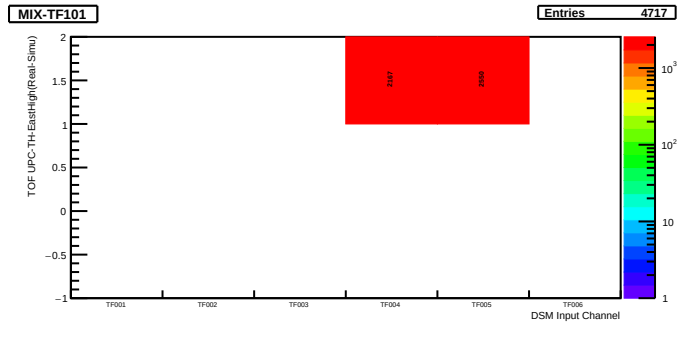

MIX-TF101
Entries 34620
TOF UPC-TH-WestHigh
4050
4188
3573
4131
3894
4143
1720
1582
2197
1539
1976
1527
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

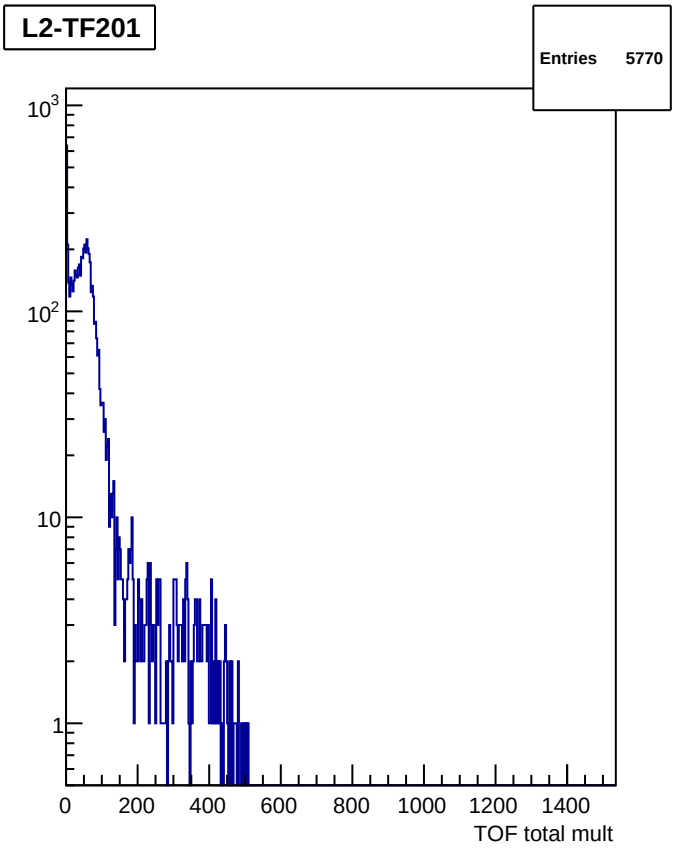

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

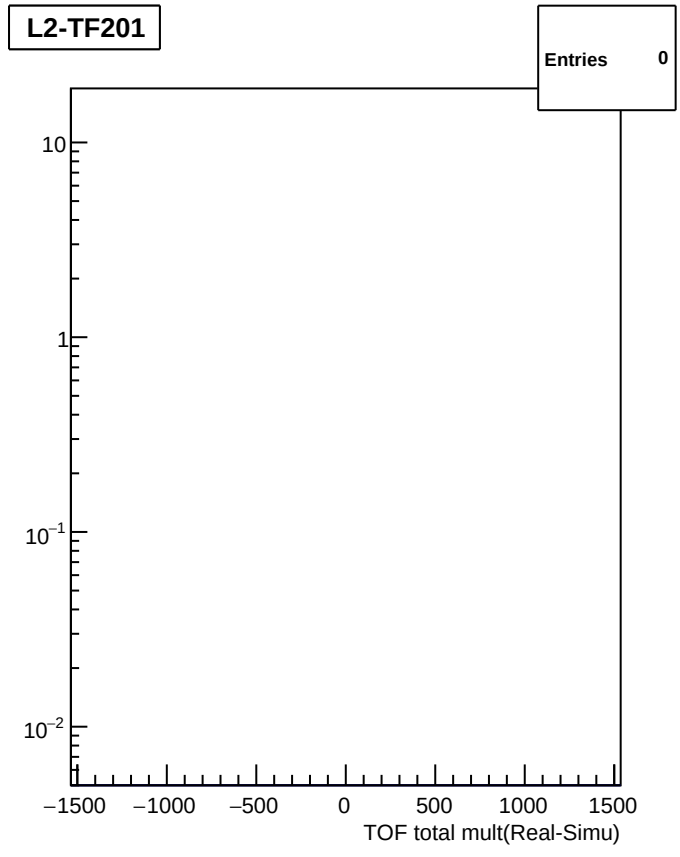

MIX-TF101
Entries 34620
TOF UPC-TH-EastLow
2877
3600
3137
5770
3546
3482
2888
2170
2633
2294
2288
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

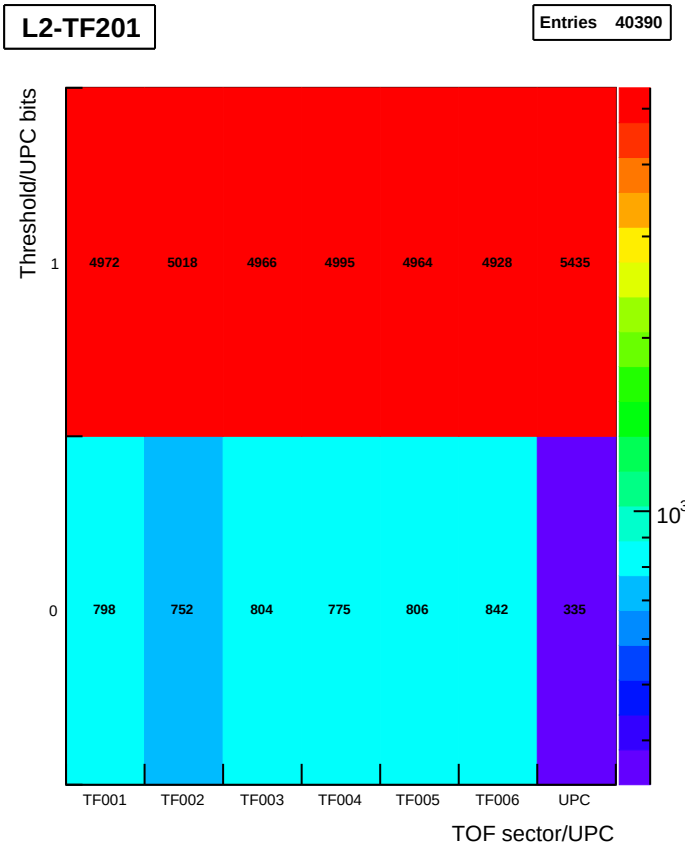

MIX-TF101
Entries 2179
TOF UPC-TH-EastLow(Real-Simu)
2179
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

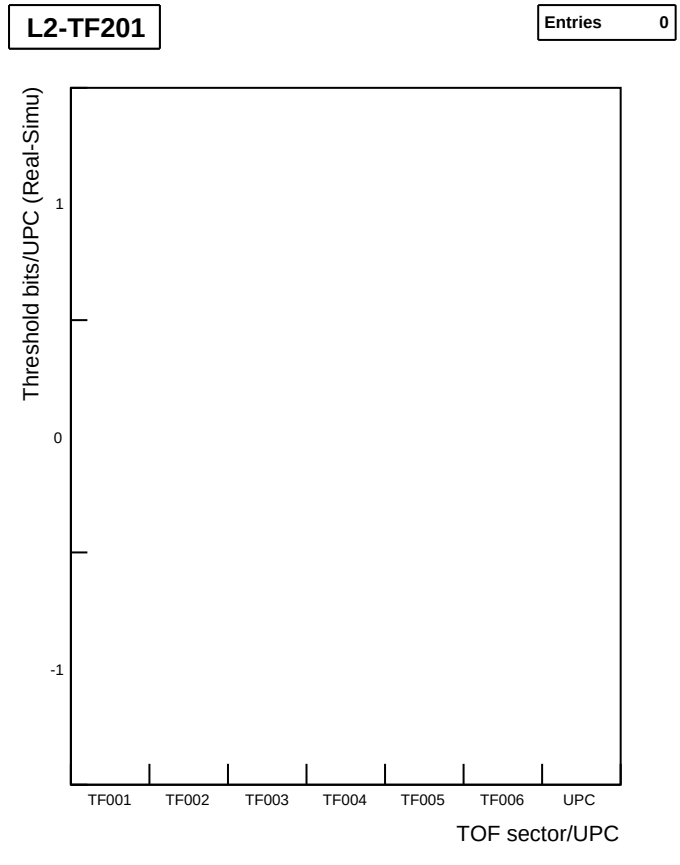

MIX-TF101
Entries 34620
TOF UPC-TH-EastHigh
3592
3399
3465
5770
5770
2892
2178
2561
2185
2878
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

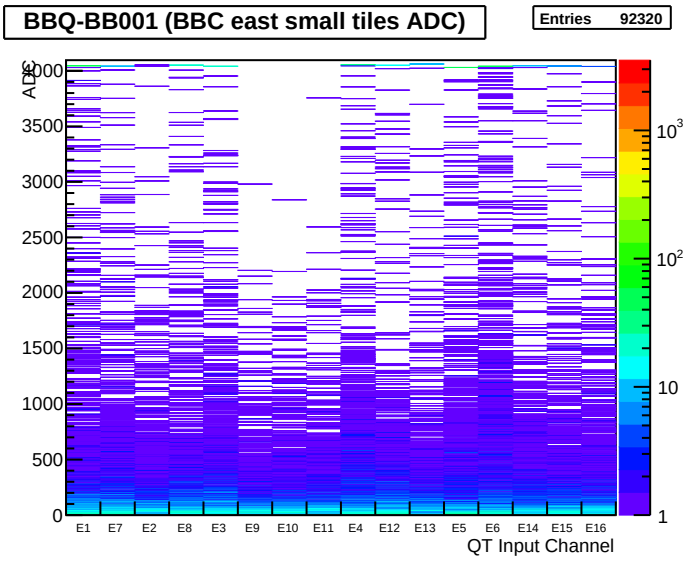

MIX-TF101
Entries 4717
TOF UPC-TH-EastHigh(Real-Simu)
2167
2550
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

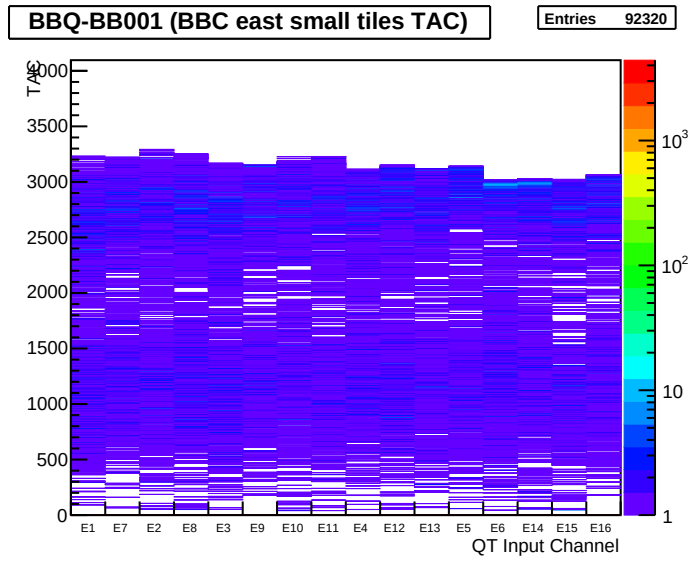

L2-TF201
Entries 5770
TOF total mult

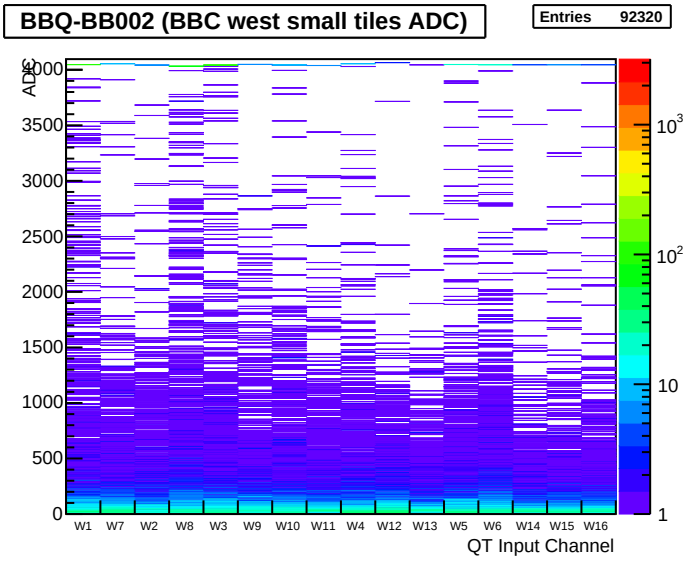

L2-TF201
Entries 0
TOF total mult(Real-Simu)

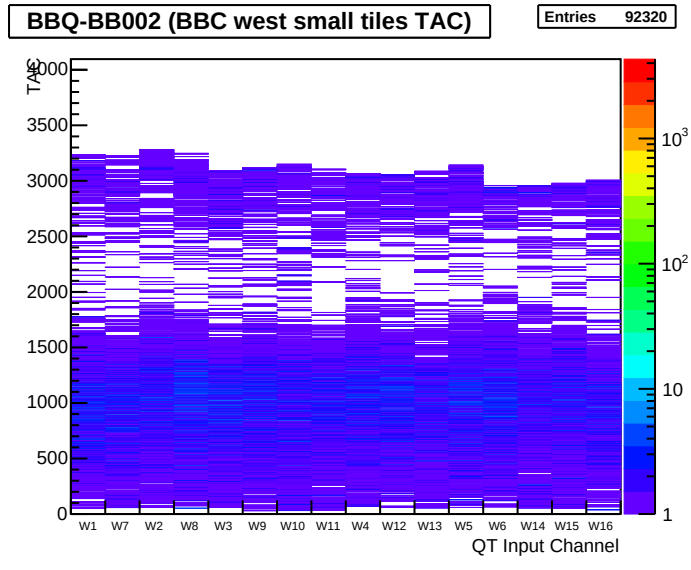

L2-TF201
Entries 40390
Threshold/UPC bits
4972 5018 4966 4995 4964 4928 5435
798 752 804 775 806 842 335
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

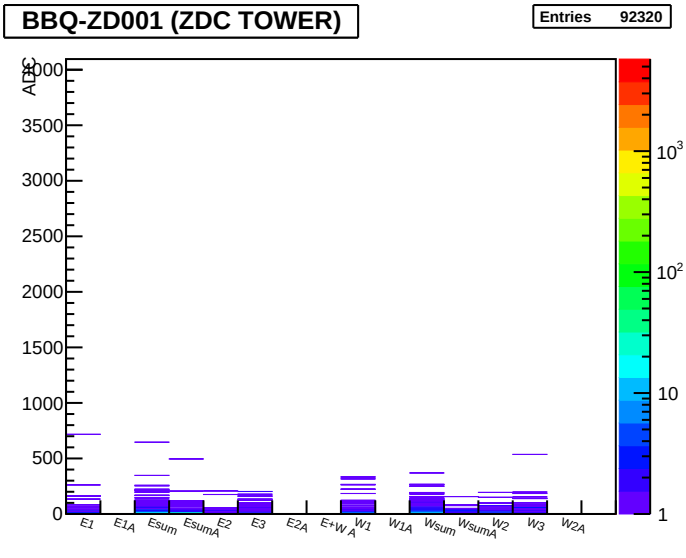

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

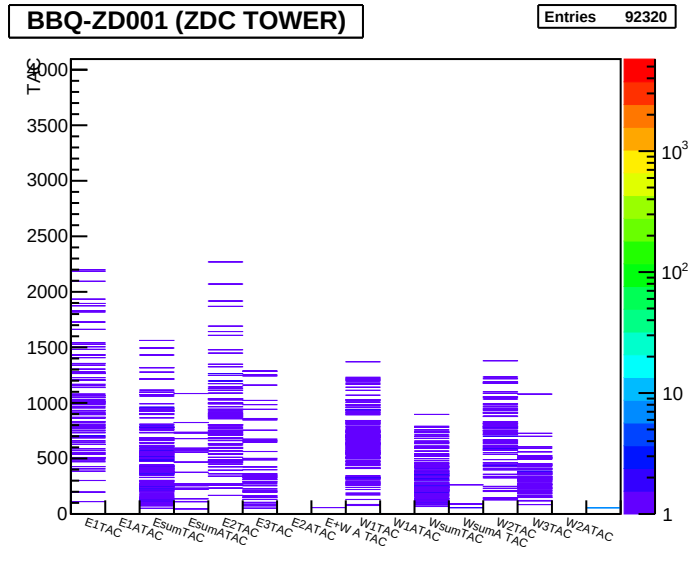

BBQ-BB001 (BBC east small tiles ADC)
Entries 92320
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

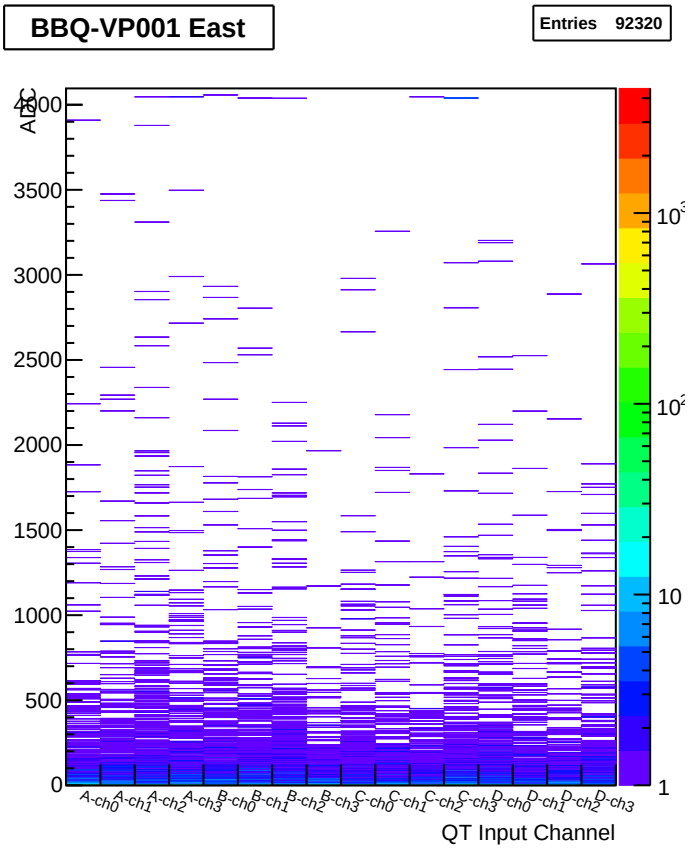

BBQ-BB001 (BBC east small tiles TAC)
Entries 92320
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

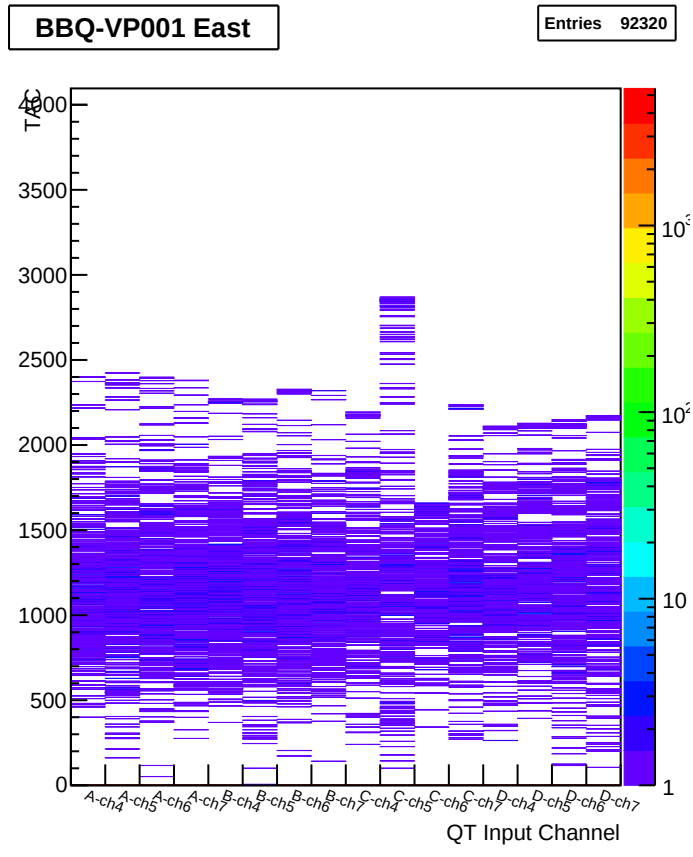

BBQ-BB002 (BBC west small tiles ADC)
Entries 92320
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

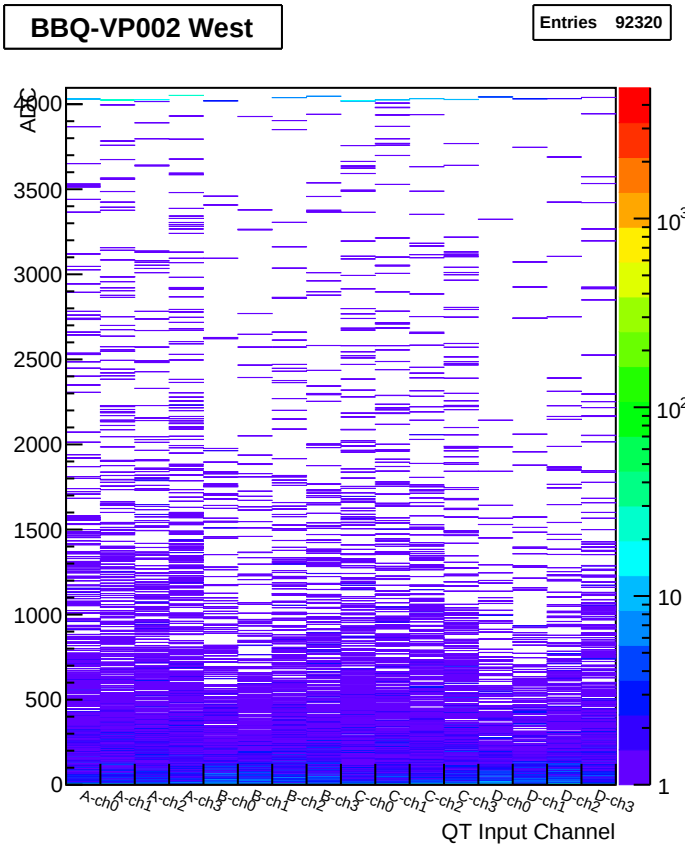

BBQ-BB002 (BBC west small tiles TAC)
Entries 92320
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

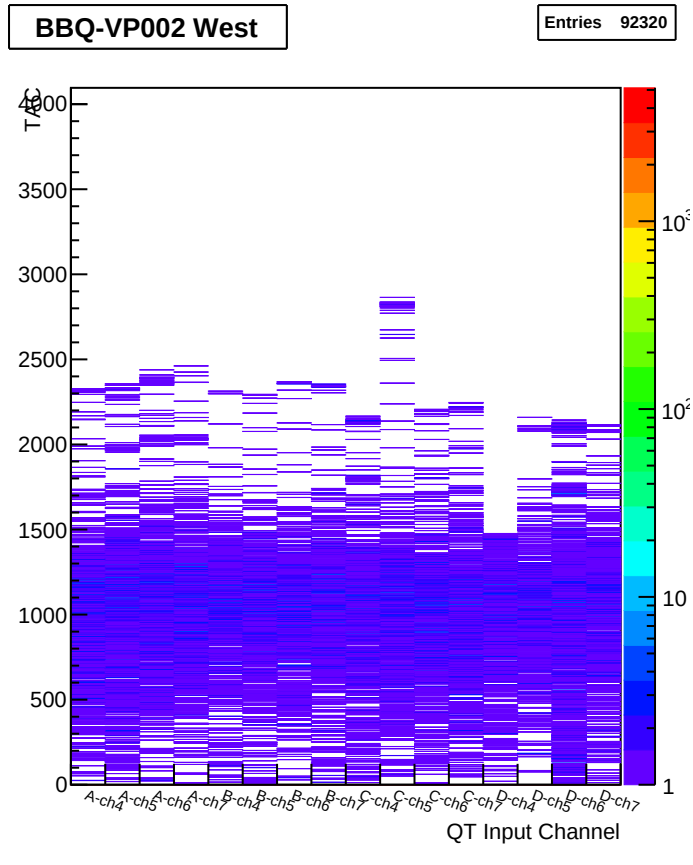

BBQ-ZD001 (ZDC TOWER)
Entries 92320
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

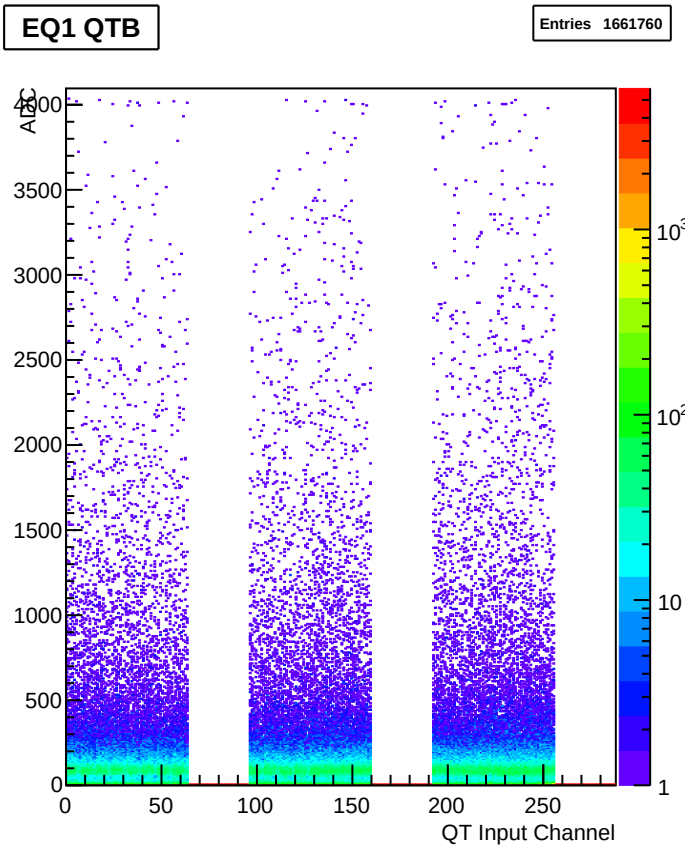

BBQ-ZD001 (ZDC TOWER)
Entries 92320
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

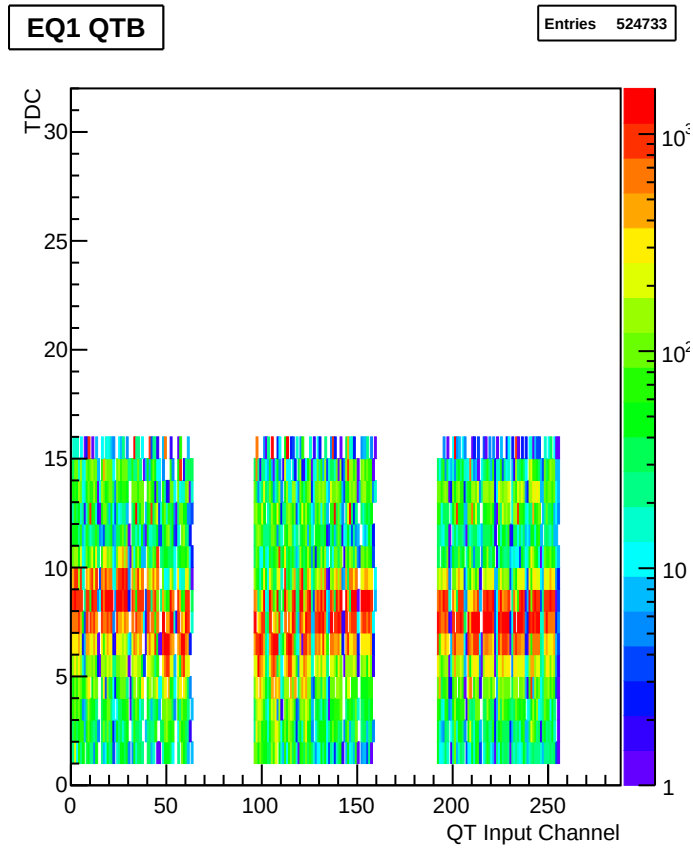

BBQ-VP001 East
Entries 92320
ADC
QT Input Channel

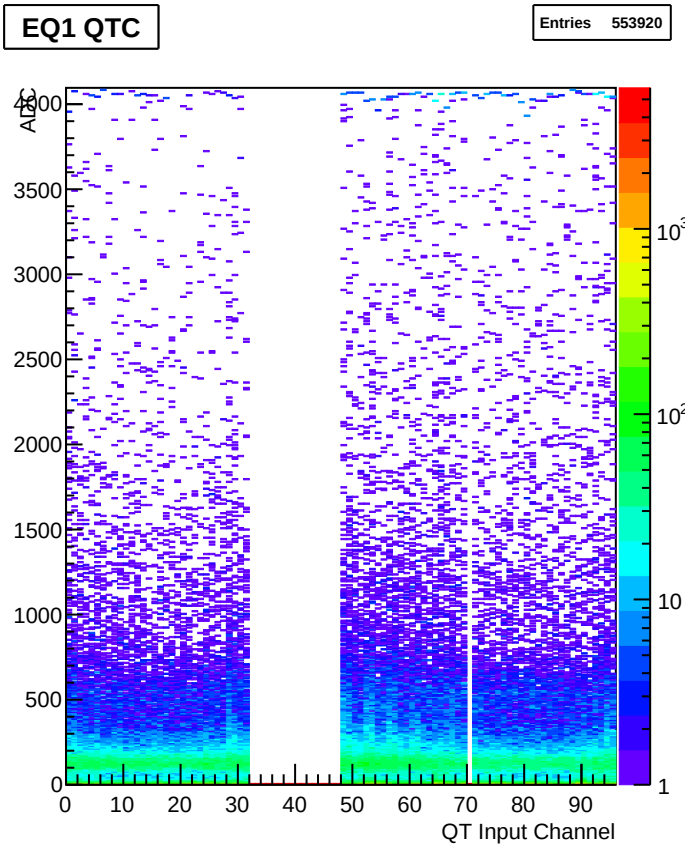

BBQ-VP001 East
Entries 92320
TADC
QT Input Channel

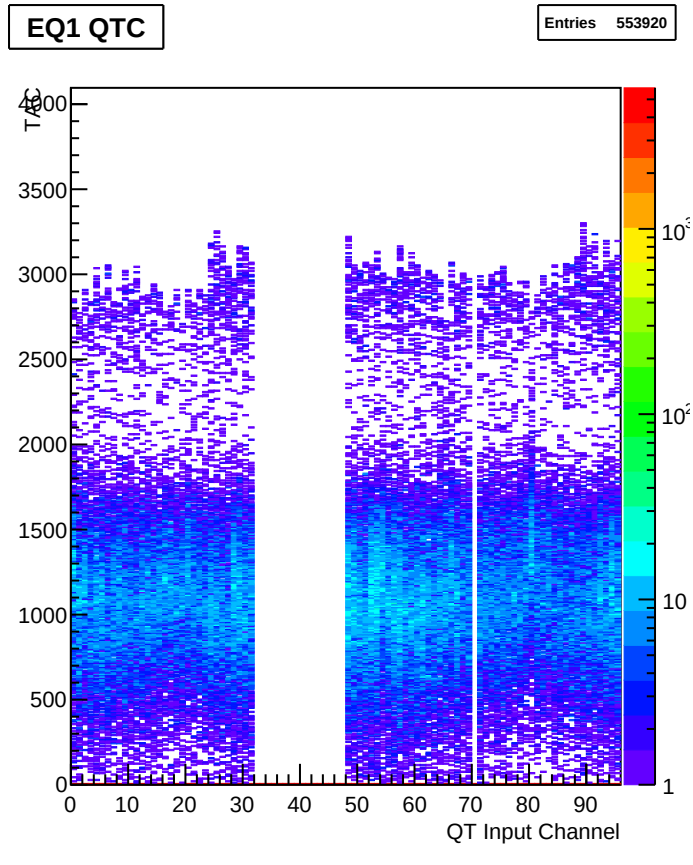

BBQ-VP002 West
Entries 92320
ADC
QT Input Channel

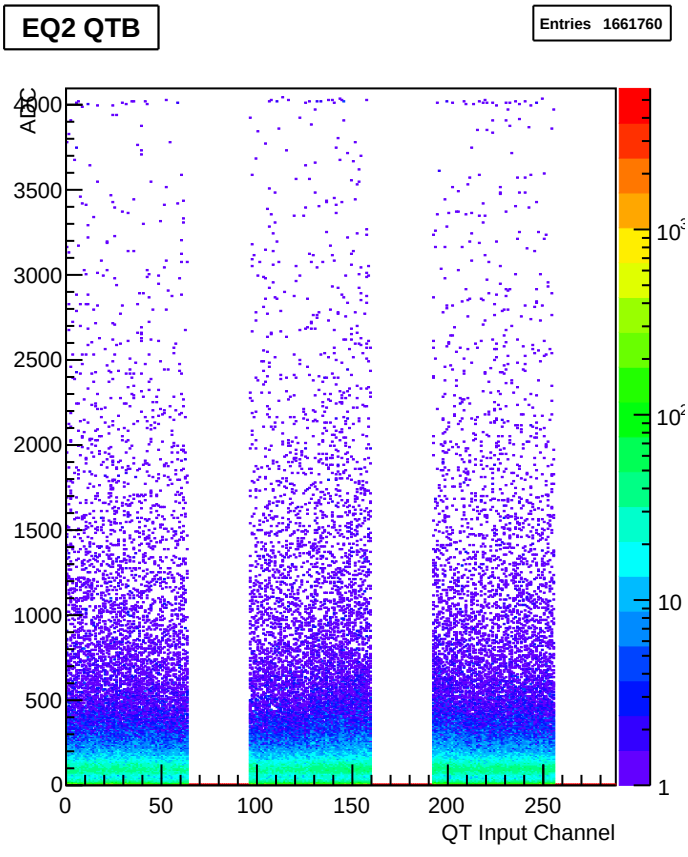

BBQ-VP002 West
Entries 92320
TADC
QT Input Channel

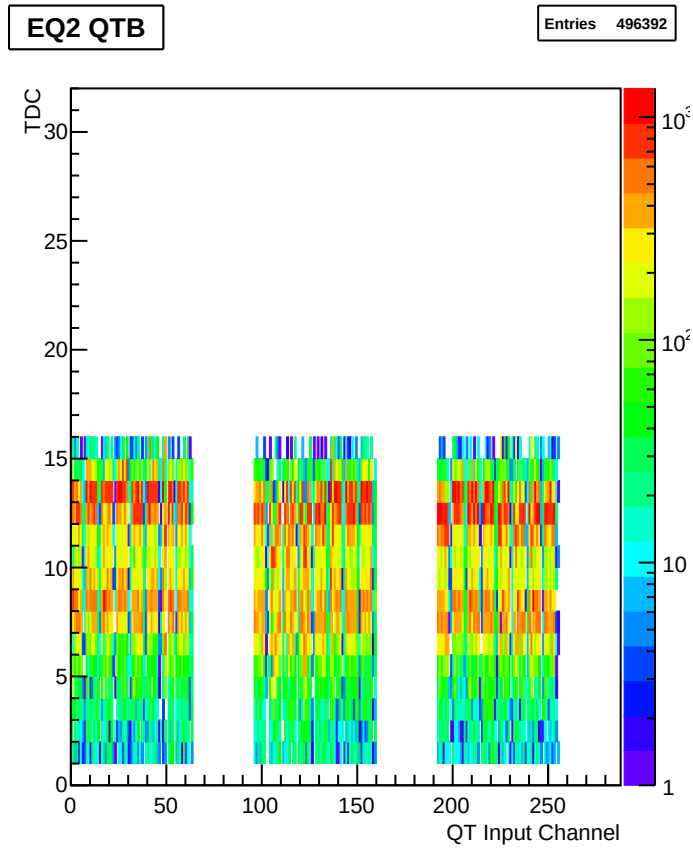

EQ1 QTB
Entries 1661760
ADC
QT Input Channel

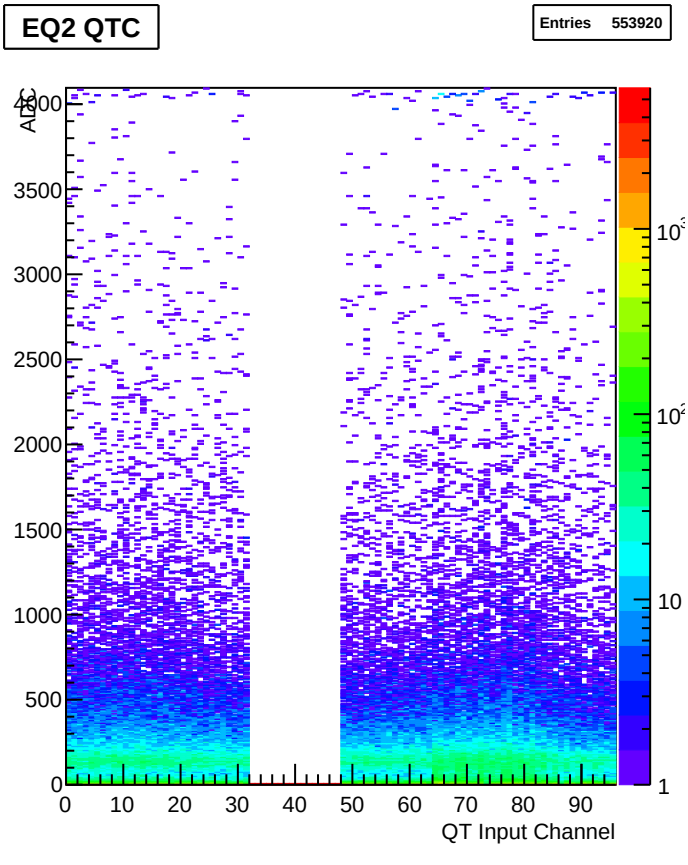

EQ1 QTB
Entries 524733
TDC
QT Input Channel

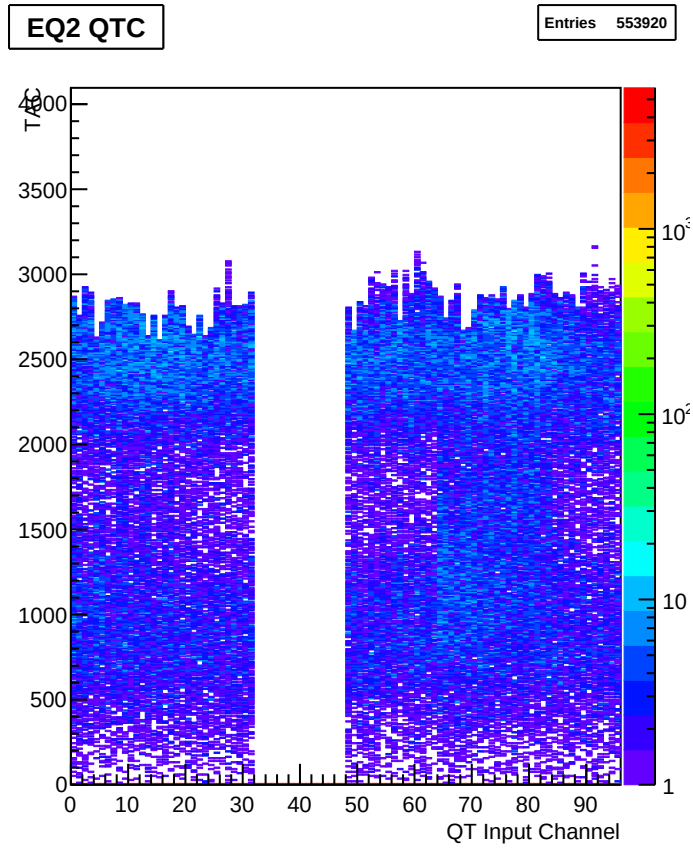

EQ1 QTC
Entries 553920
ADC
QT Input Channel

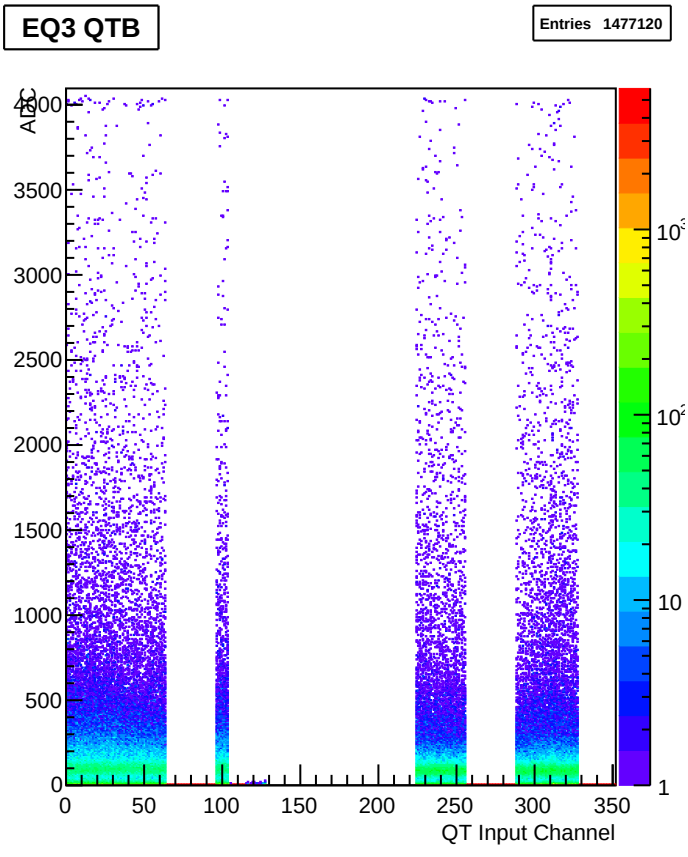

EQ1 QTC
Entries 553920
TADC
QT Input Channel

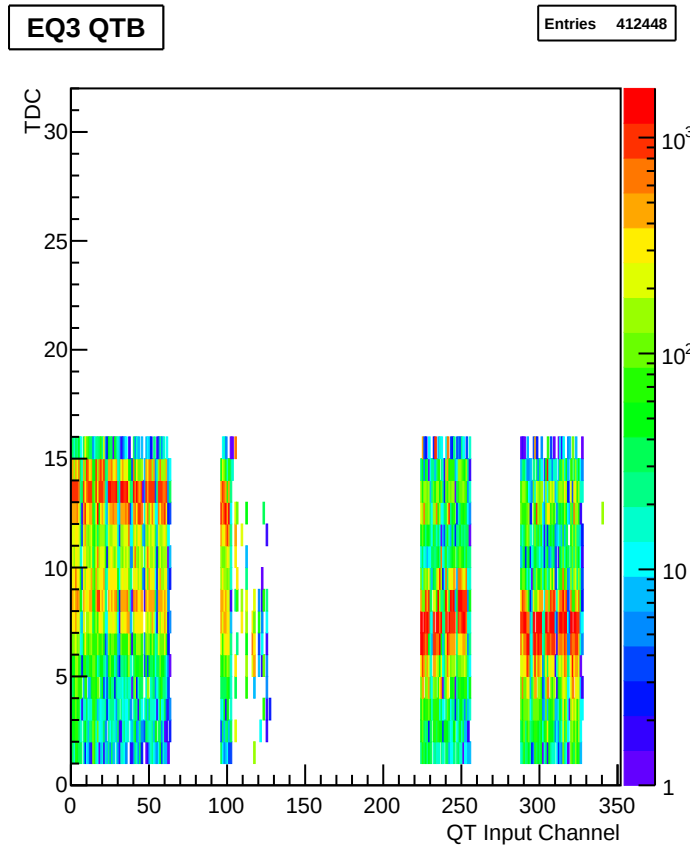

EQ2 QTB
Entries 1661760
ADC
QT Input Channel

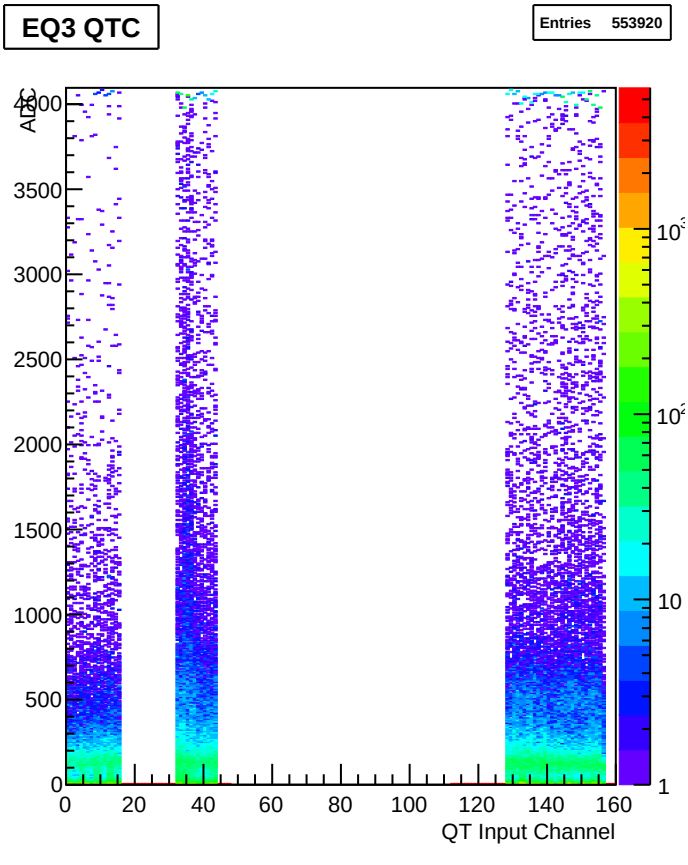

EQ2 QTB
Entries 496392
TDC
QT Input Channel

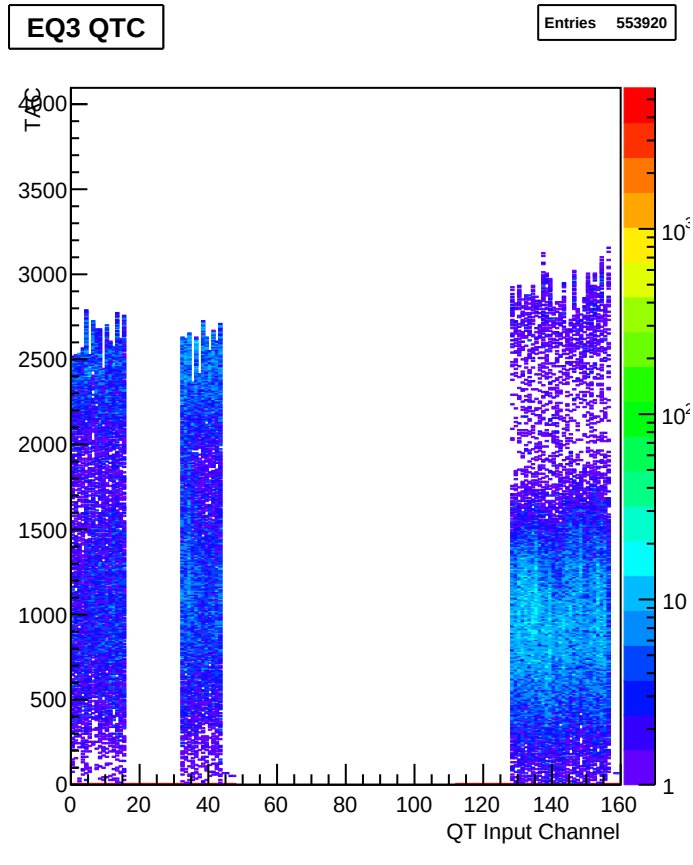

EQ2 QTC
Entries 553920
ADC
QT Input Channel

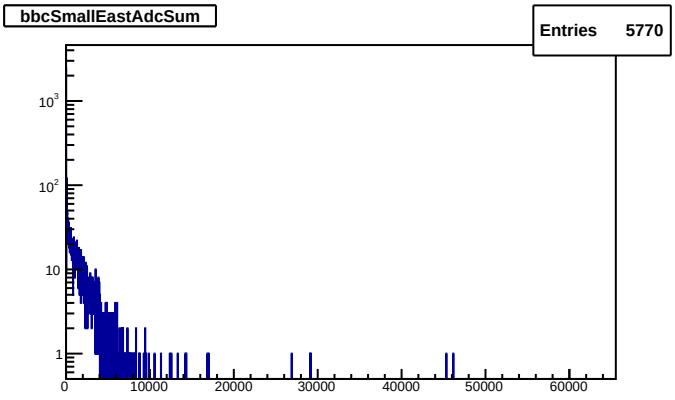

EQ2 QTC
Entries 553920
TADC
QT Input Channel

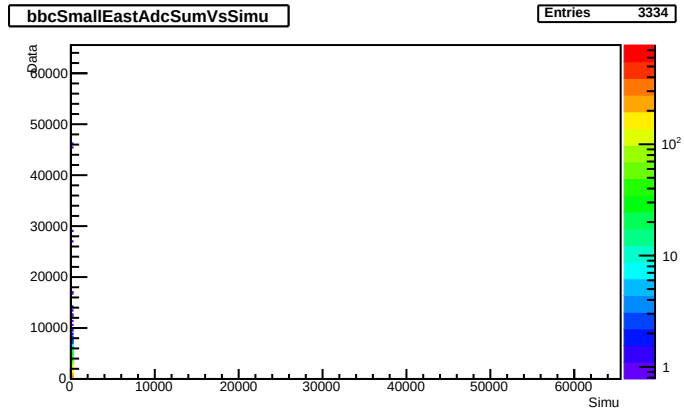

EQ3 QTB
Entries 1477120
ADC
QT Input Channel

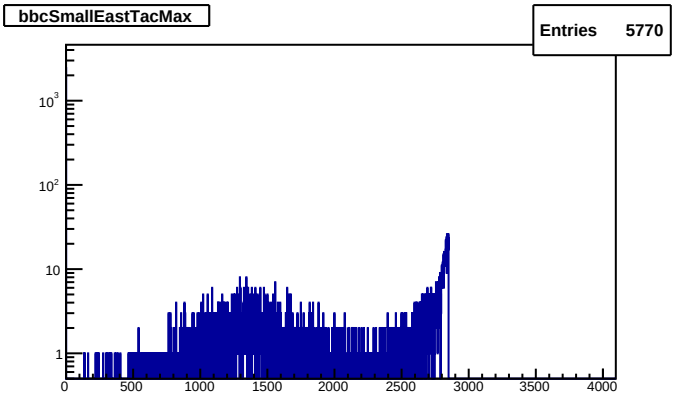

EQ3 QTB
Entries 412448
TDC
QT Input Channel

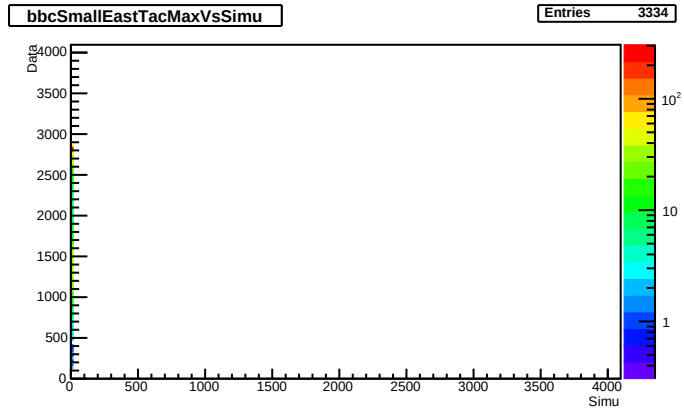

EQ3 QTC
Entries 553920
ADC
QT Input Channel

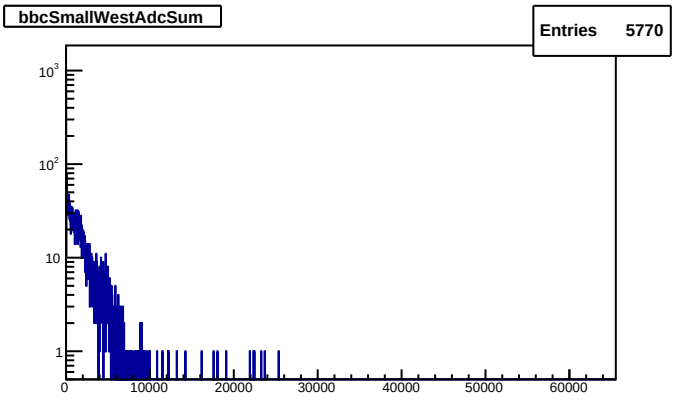

EQ3 QTC
Entries 553920
TADC
QT Input Channel

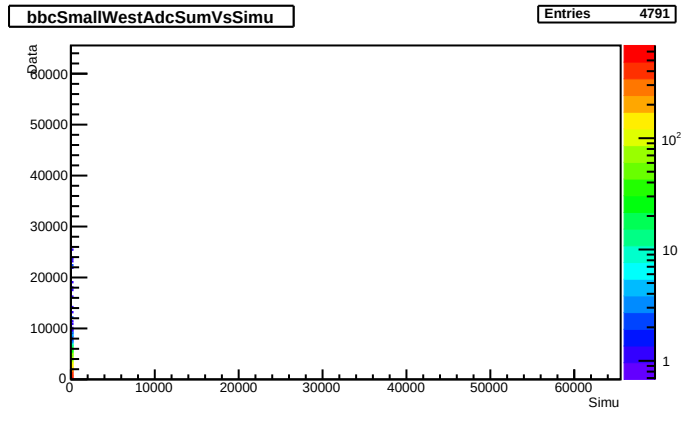

bbcSmallEastAdcSum
Entries 5770

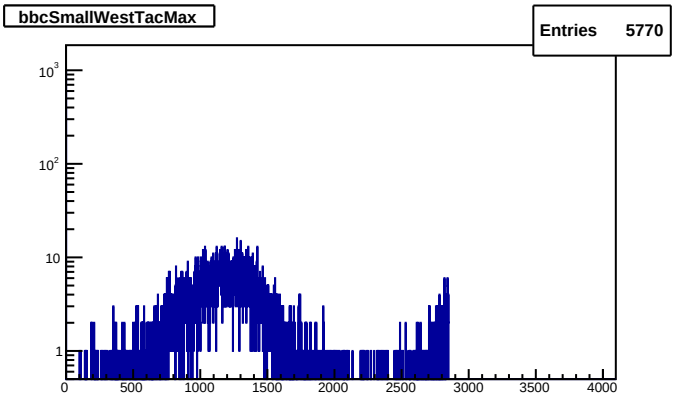

bbcSmallEastAdcSumVsSimu
Entries 3334
Data
Simu

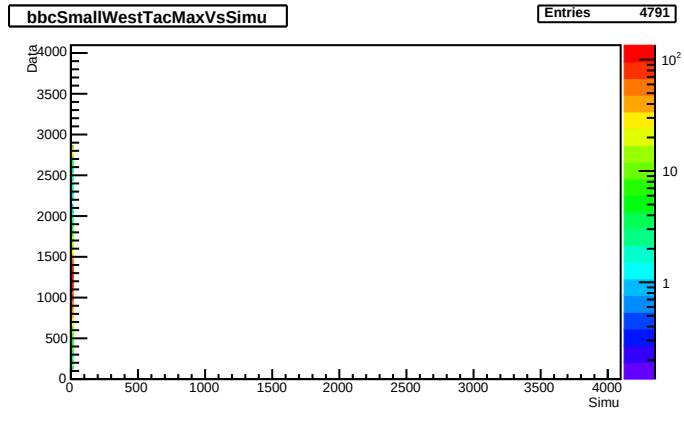

bbcSmallEastTacMax
Entries 5770

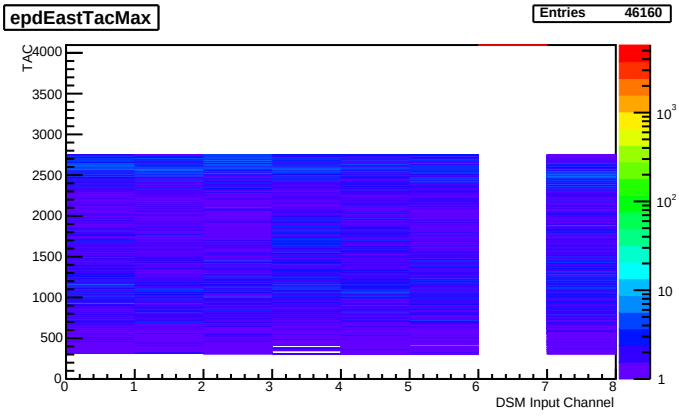

bbcSmallEastTacMaxVsSimu
Entries 3334
Data
Simu

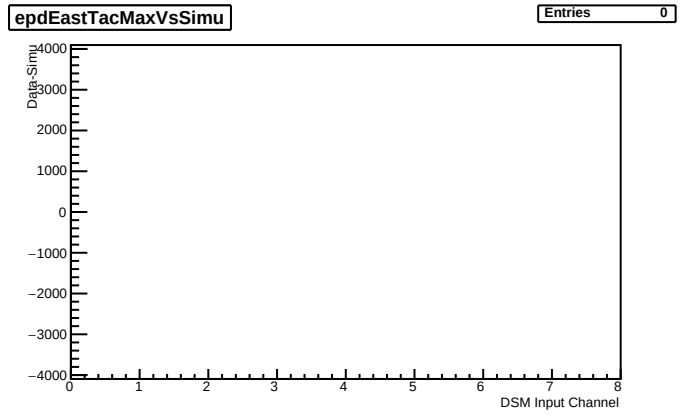

bbcSmallWestAdcSum
Entries 5770

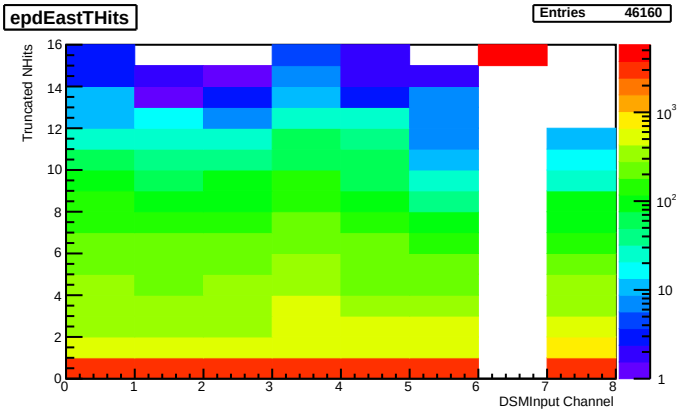

bbcSmallWestAdcSumVsSimu
Entries 4791
Data
Simu

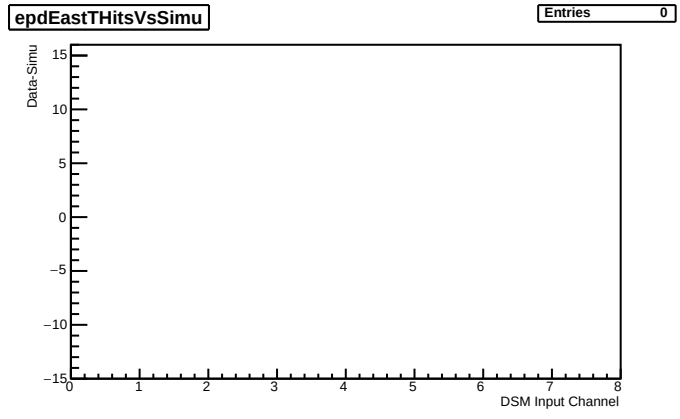

bbcSmallWestTacMax
Entries 5770

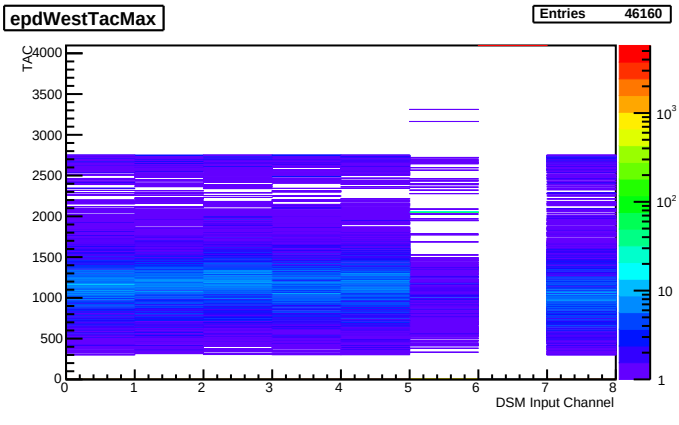

bbcSmallWestTacMaxVsSimu
Entries 4791
Data
Simu

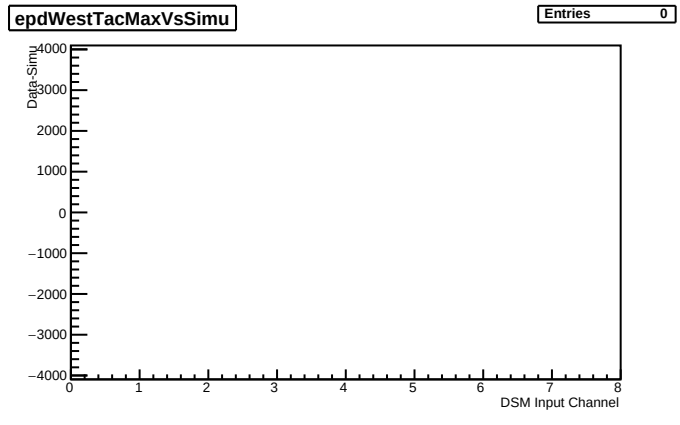

epdEastTacMax
Entries 46160
TAC
DSM Input Channel

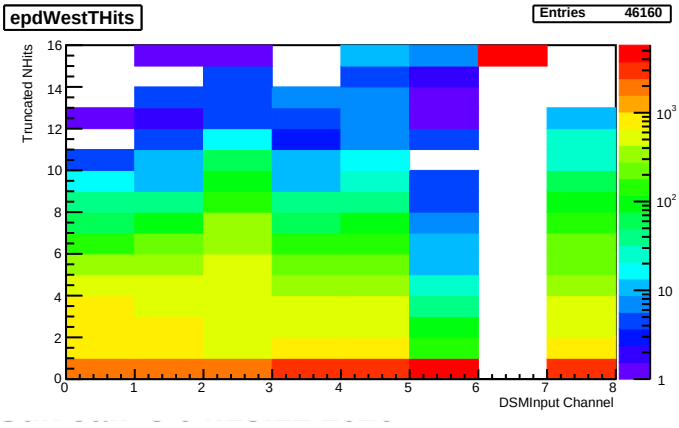

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

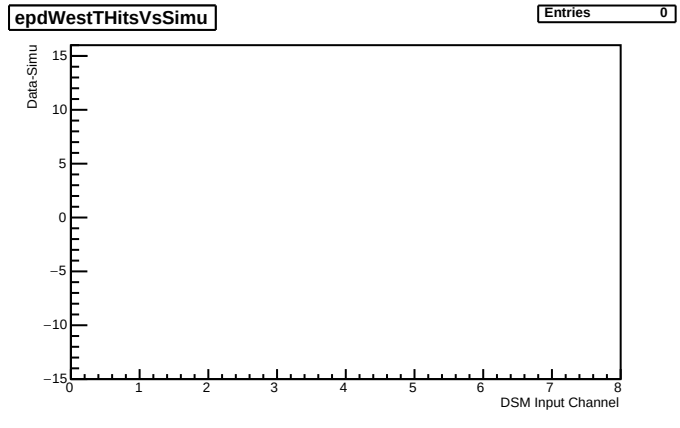

epdEastTHits
Entries 46160
Truncated NHits
DSMInput Channel

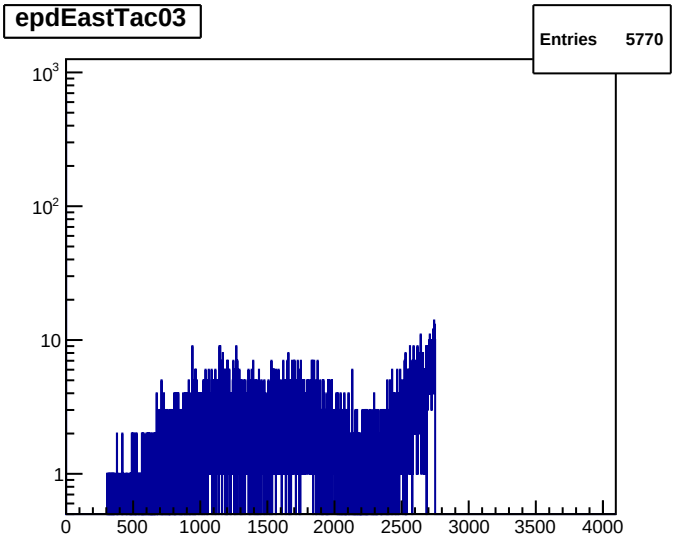

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

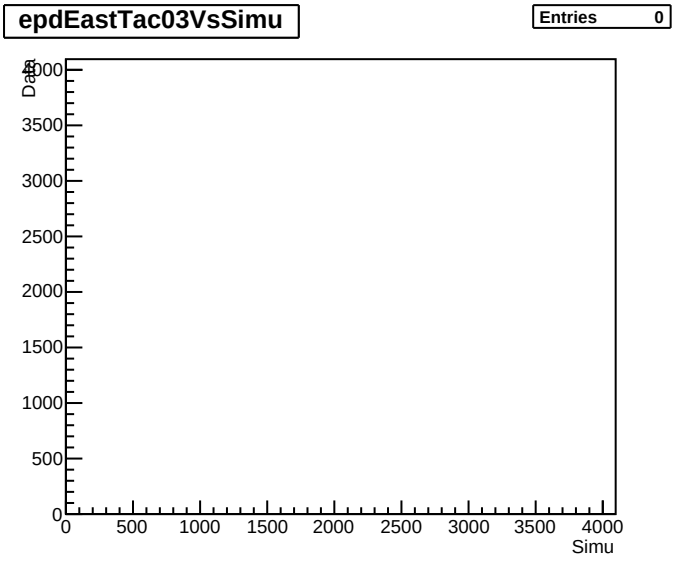

epdWestTacMax
Entries 46160
TAC
DSM Input Channel

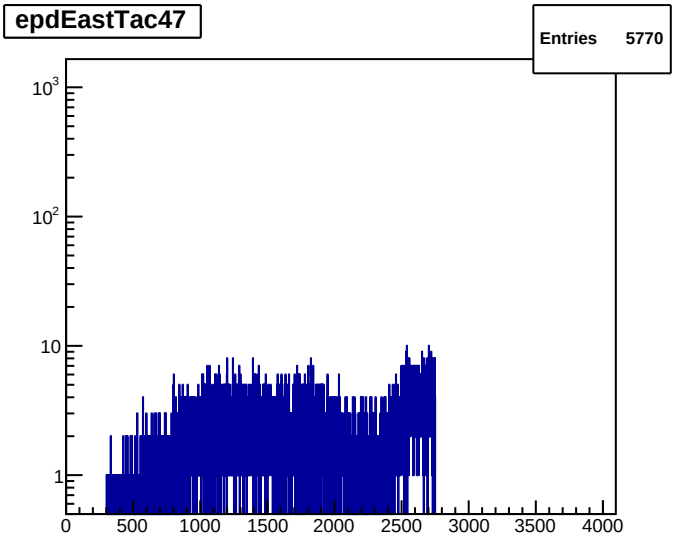

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

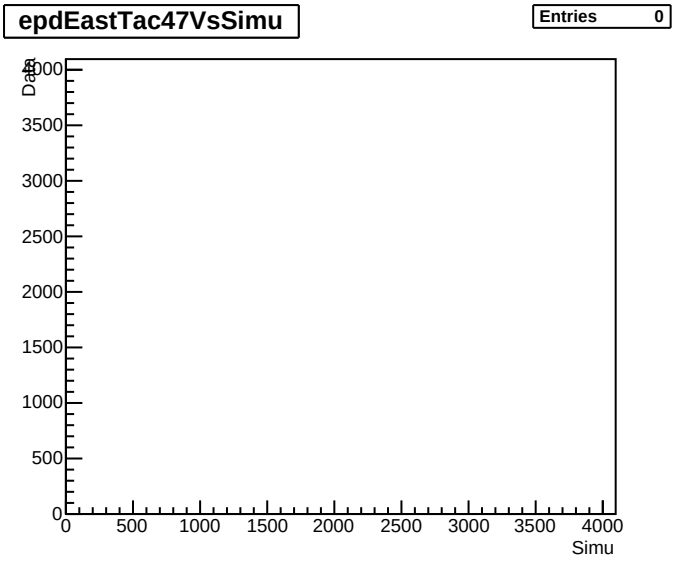

epdWestTHits
Entries 46160
Truncated NHits
DSMInput Channel

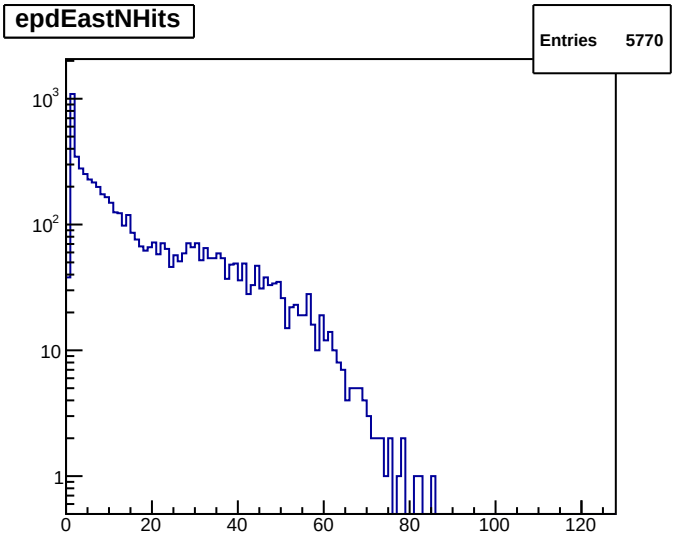

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

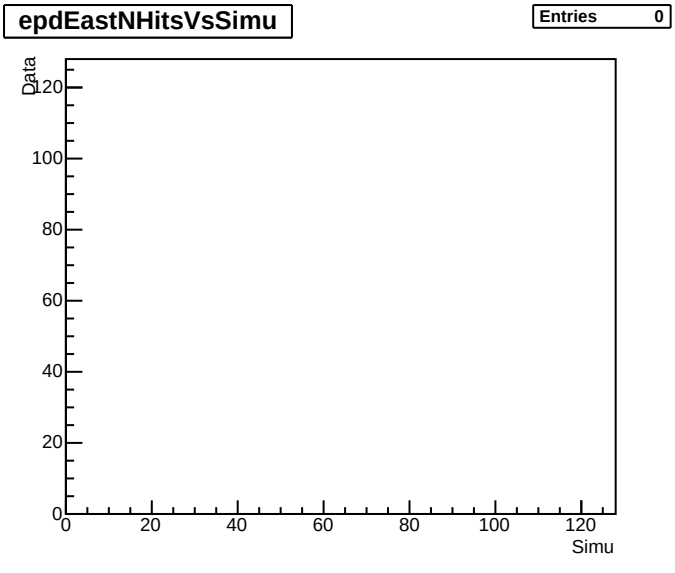

epdEastTac03
Entries 5770
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

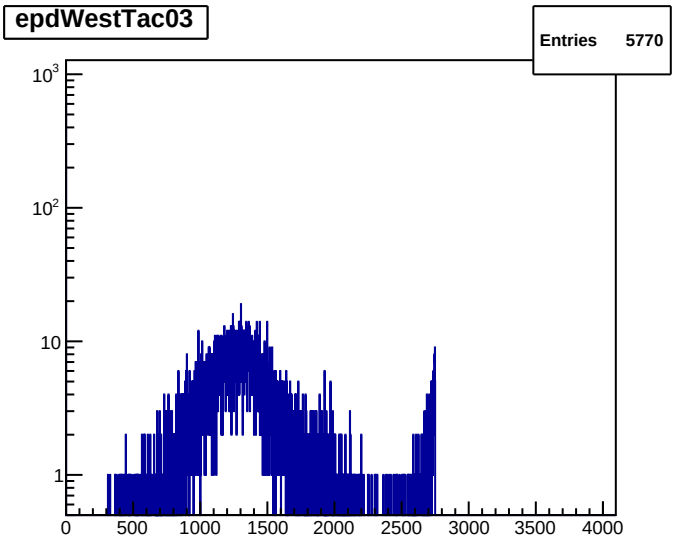

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

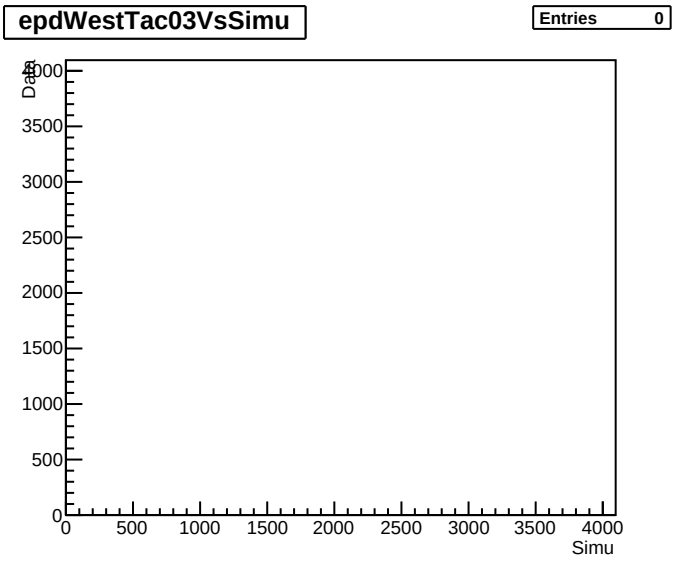

epdEastTac47
Entries 5770
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

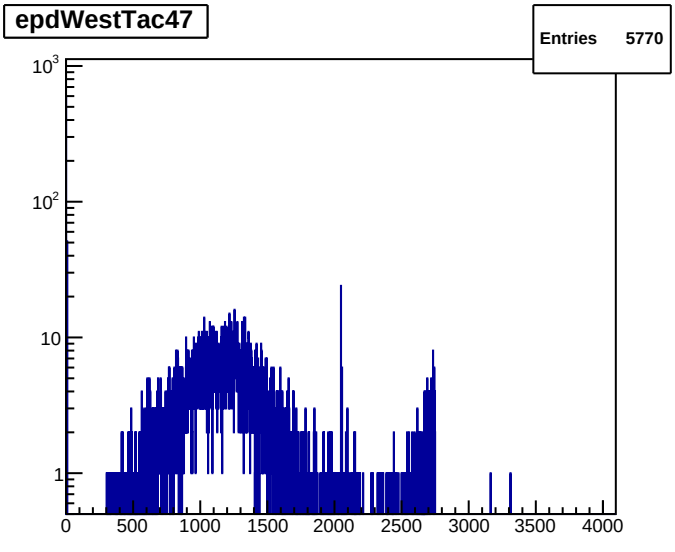

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

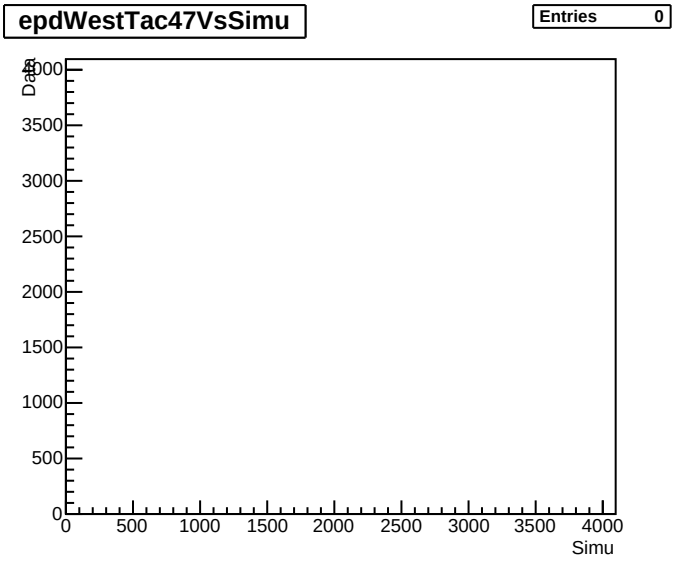

epdEastNHits
Entries 5770
10^3
10^2
10
1
0 20 40 60 80 100 120

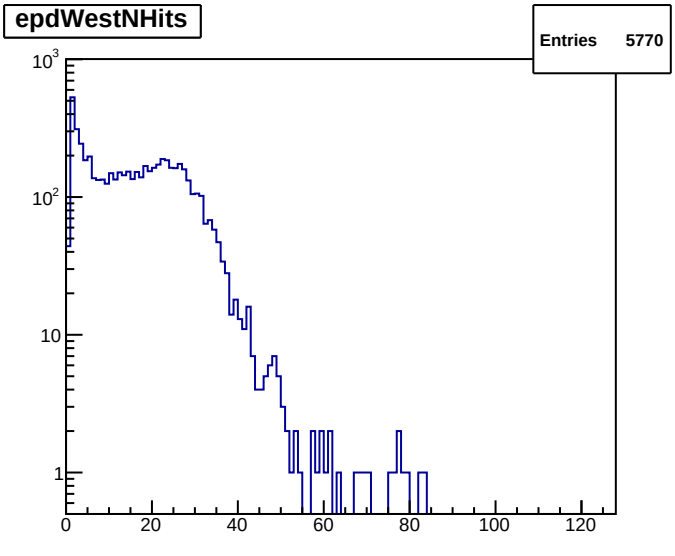

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

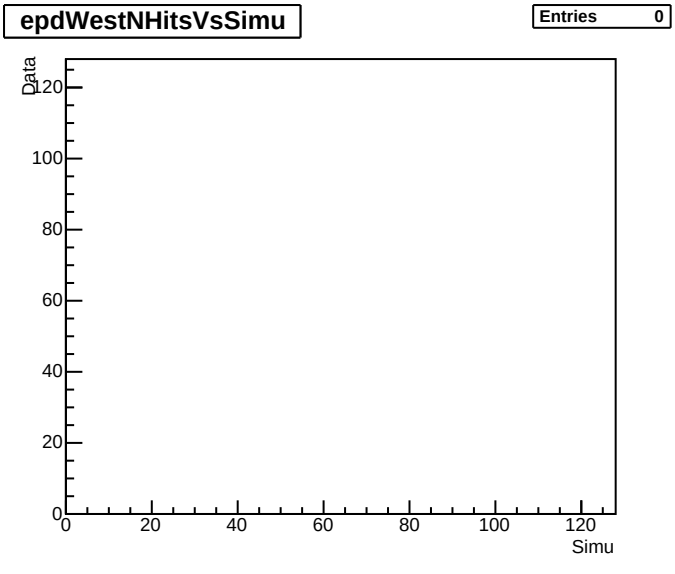

epdWestTac03
Entries 5770

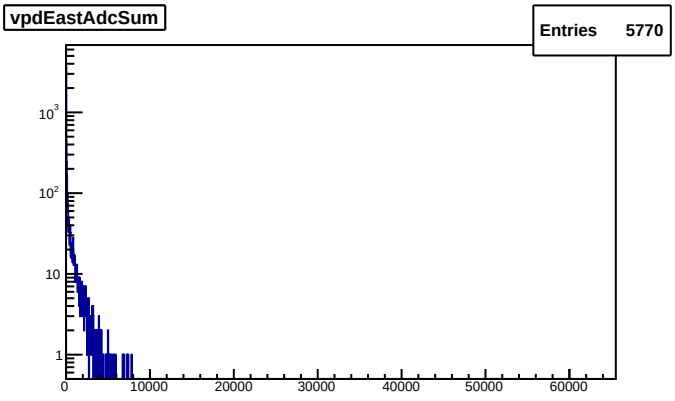

epdWestTac03VsSimu
Entries 0
Data
Simu

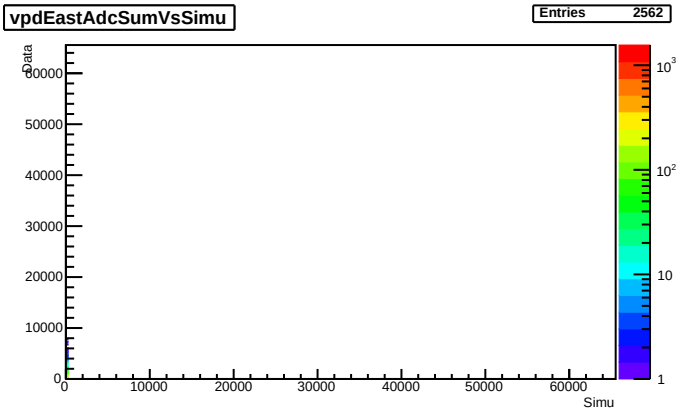

epdWestTac47
Entries 5770

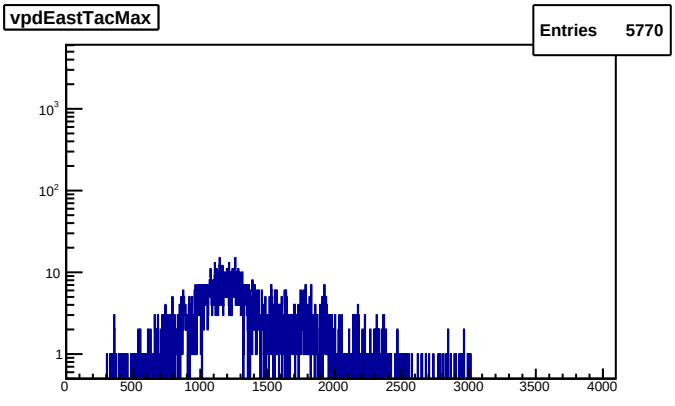

epdWestTac47VsSimu
Entries 0
Data
Simu

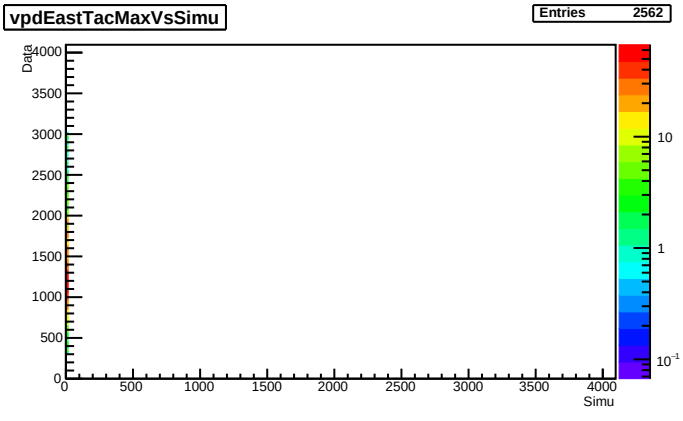

epdWestNHits
Entries 5770

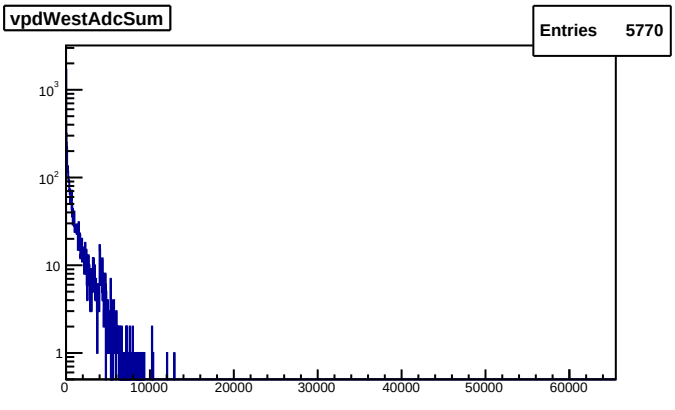

epdWestNHitsVsSimu
Entries 0
Data
Simu

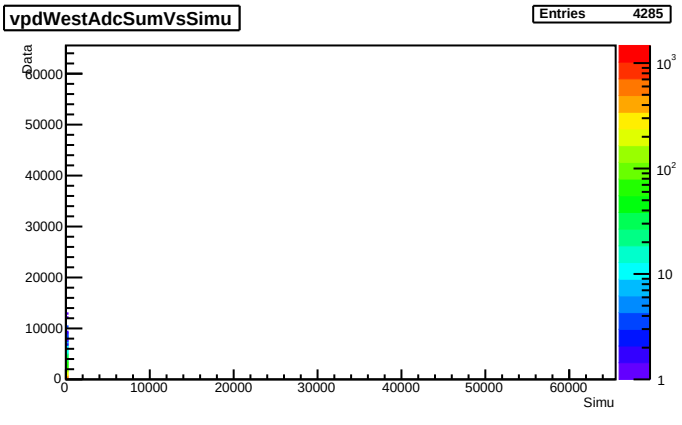

vpdEastAdcSum
Entries 5770

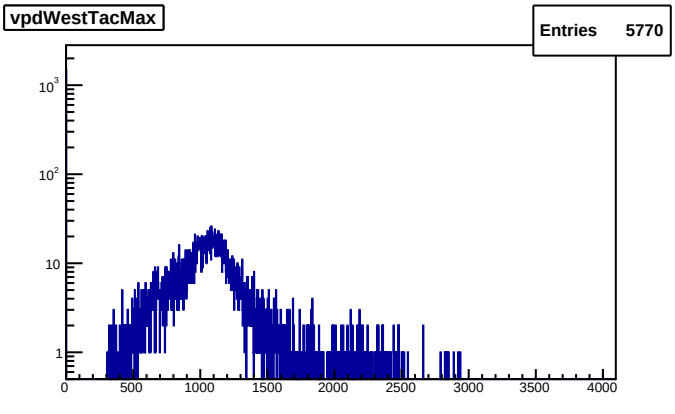

vpdEastAdcSumVsSimu
Entries 2562
Data
Simu

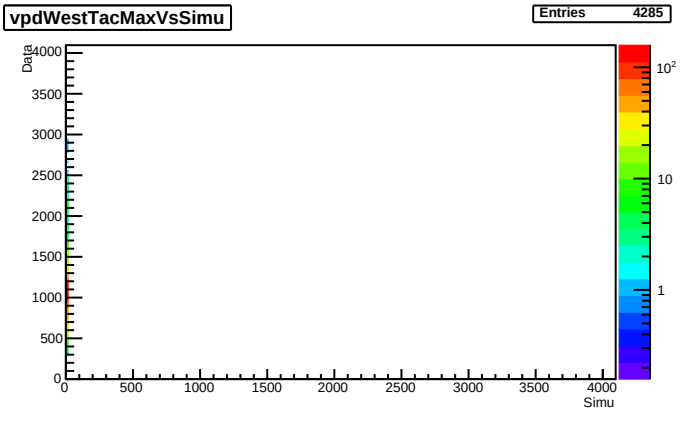

vpdEastTacMax
Entries 5770

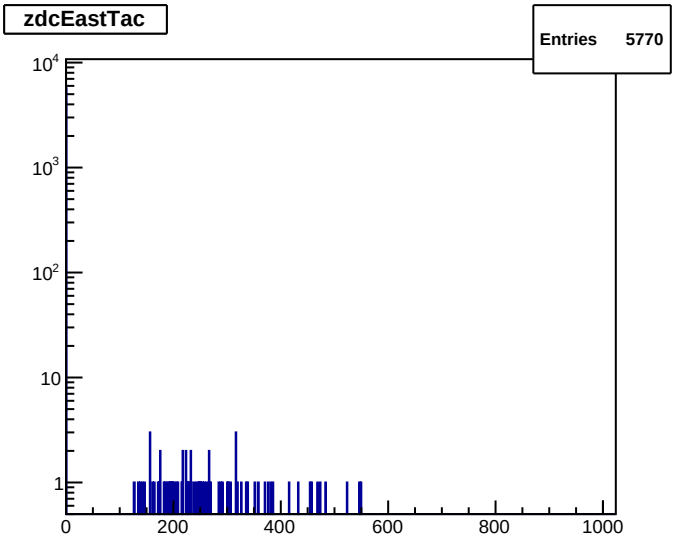

vpdEastTacMaxVsSimu
Entries 2562
Data
Simu

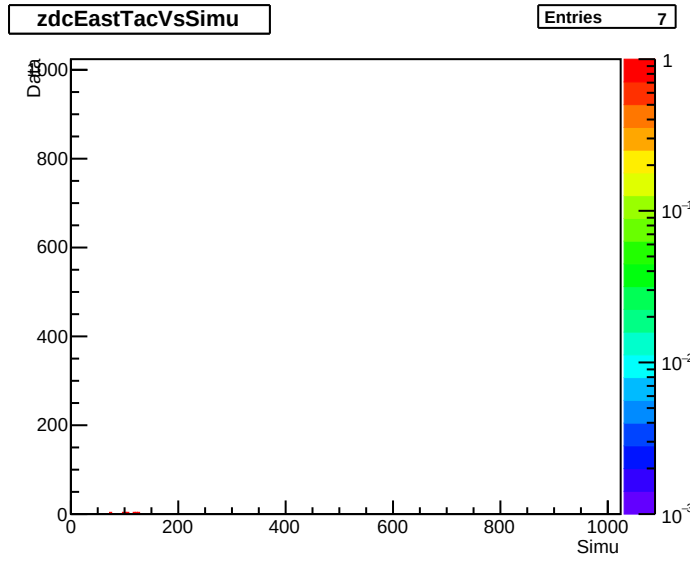

vpdWestAdcSum
Entries 5770

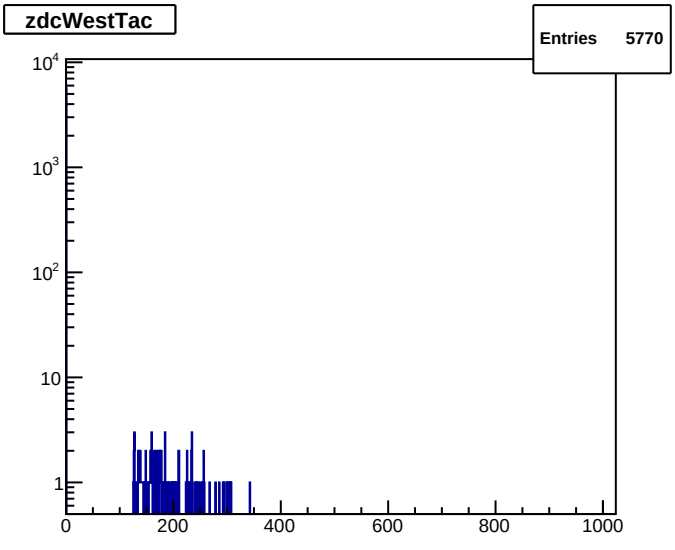

vpdWestAdcSumVsSimu
Entries 4285
Data
Simu

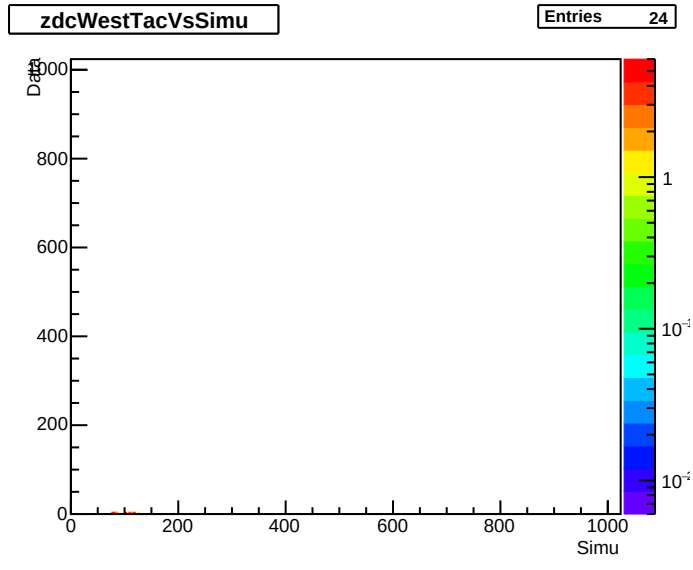

vpdWestTacMax
Entries 5770

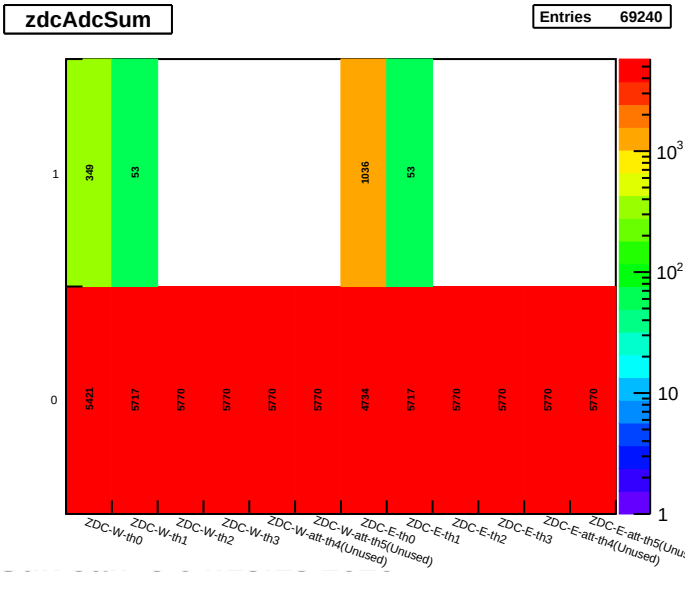

vpdWestTacMaxVsSimu
Entries 4285
Data
Simu

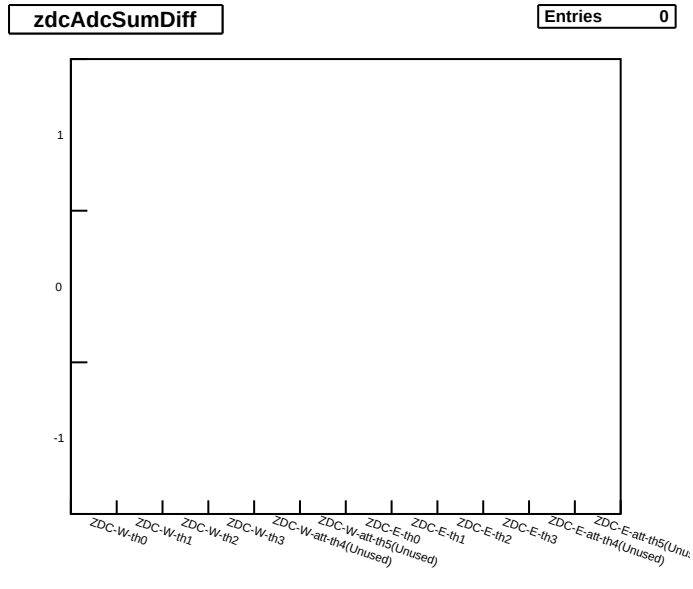

zdcEastTac
Entries 5770

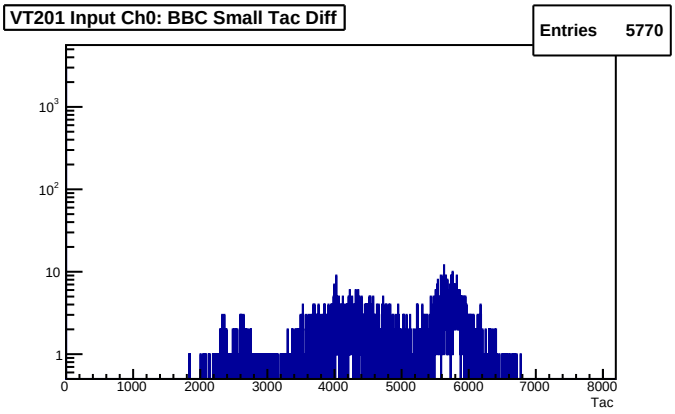

zdcEastTacVsSimu
Entries 7
Data
Simu

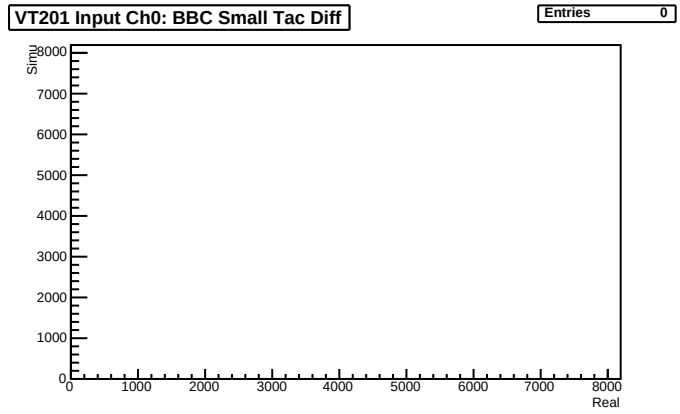

zdcWestTac
Entries 5770

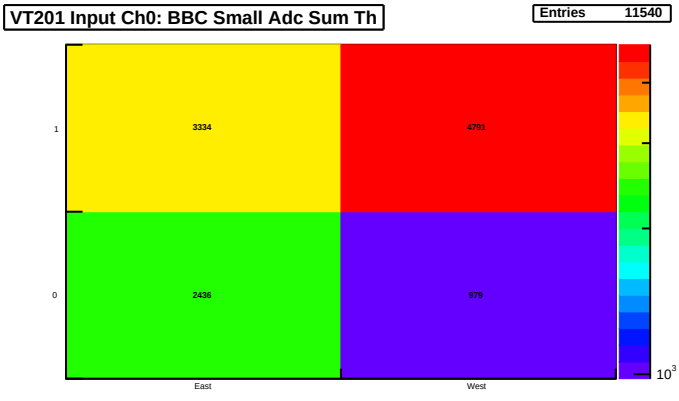

zdcWestTacVsSimu
Entries 24
Data
Simu

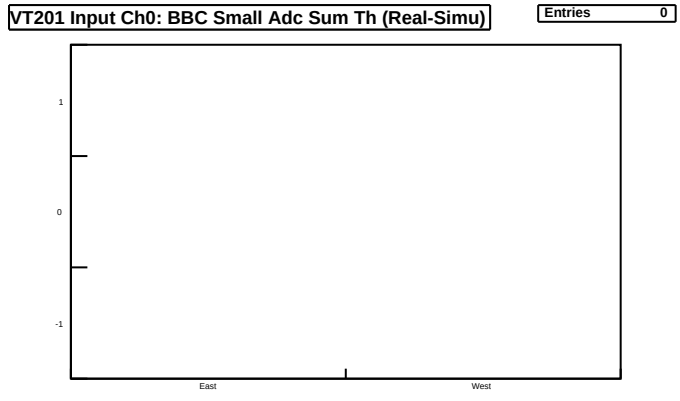

zdcAdcSum
Entries 69240
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

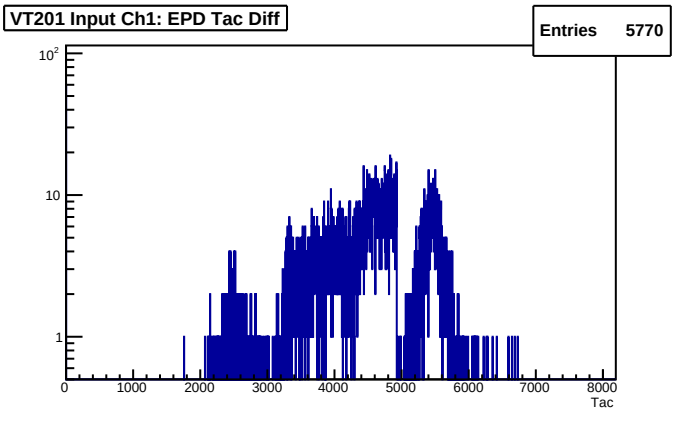

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

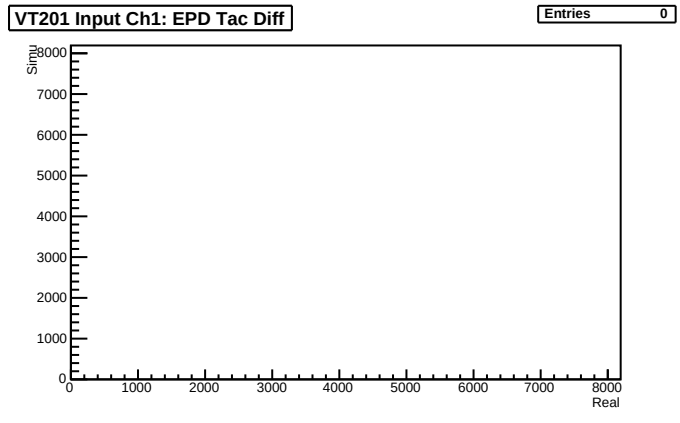

VT201 Input Ch0: BBC Small Tac Diff
Entries 5770
Tac

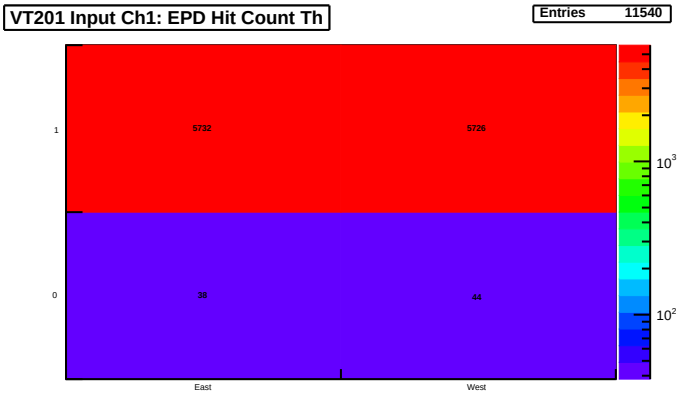

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

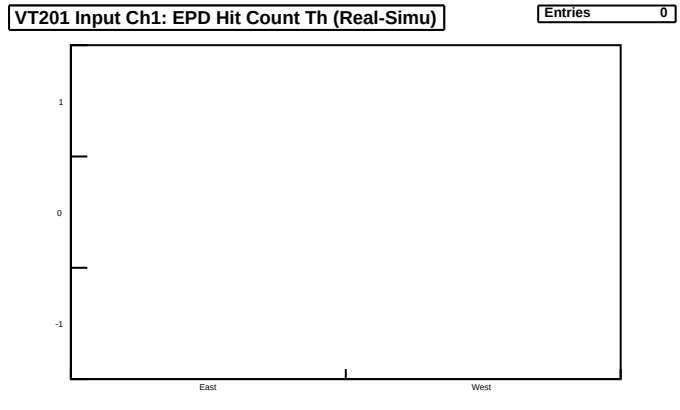

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 11540
3334
4791
2436
979
East
West

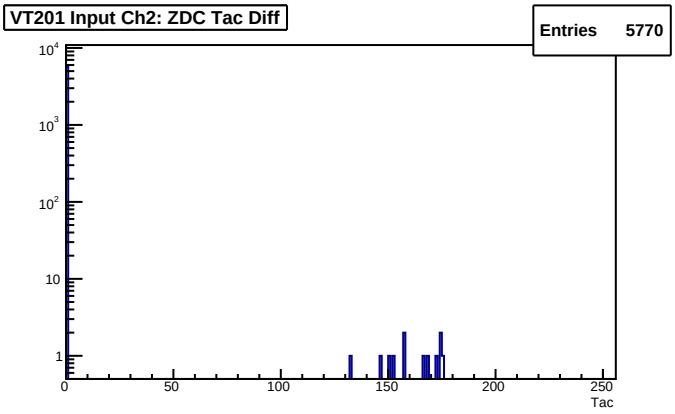

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

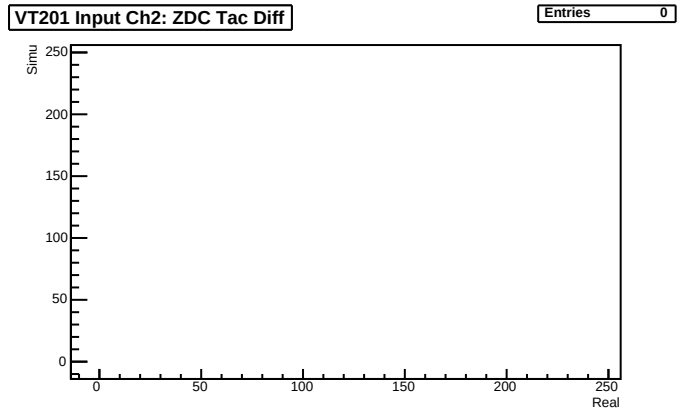

VT201 Input Ch1: EPD Tac Diff
Entries 5770
Tac

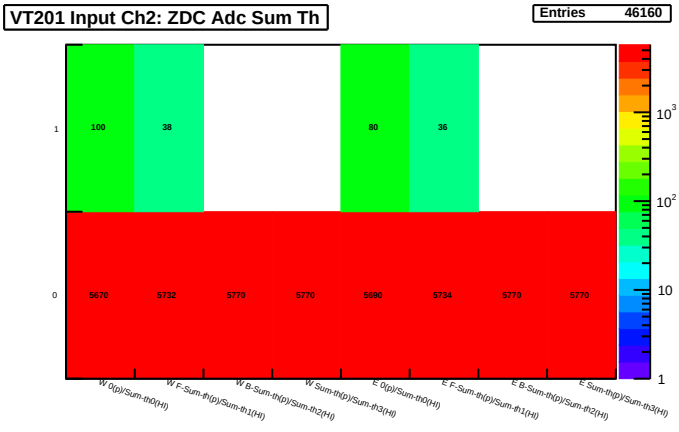

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

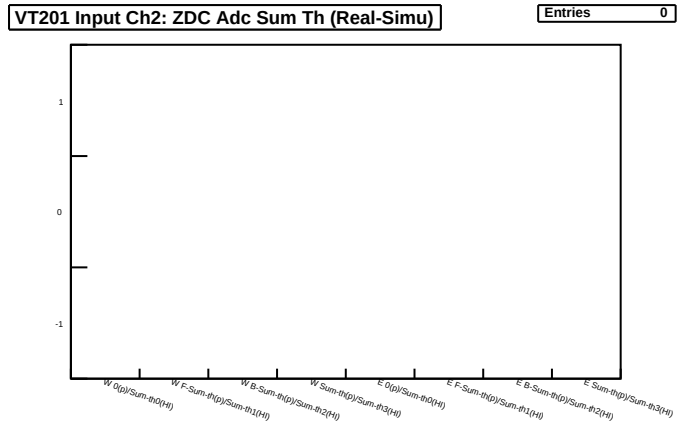

VT201 Input Ch1: EPD Hit Count Th
Entries 11540
5732
5726
38
44
East
West

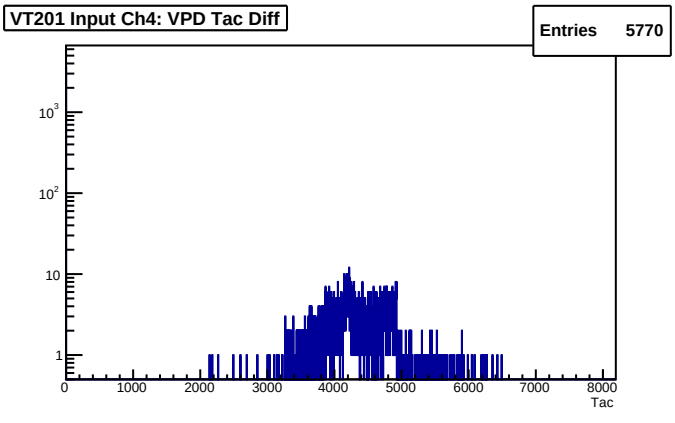

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

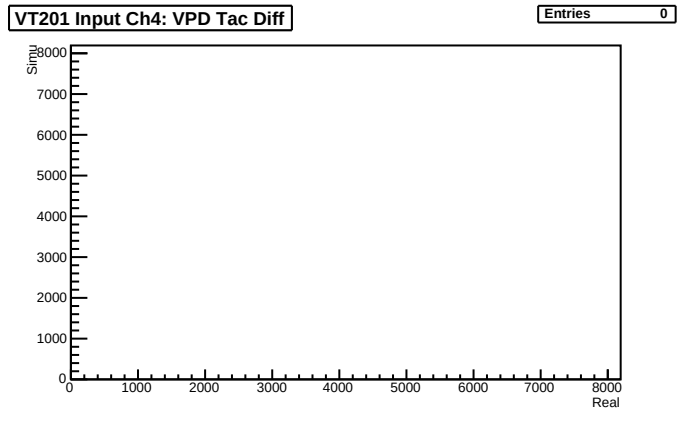

VT201 Input Ch2: ZDC Tac Diff
Entries 5770
Tac

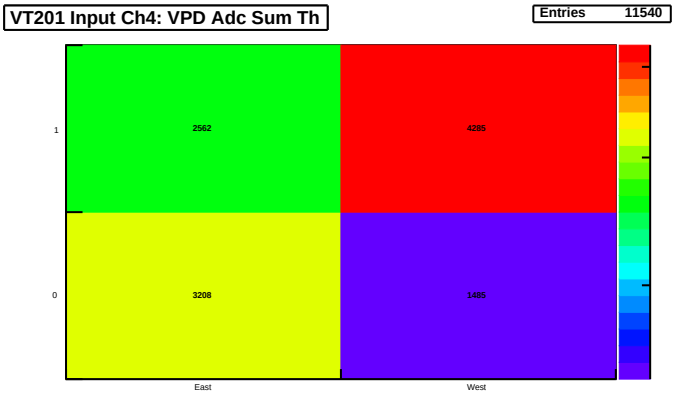

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

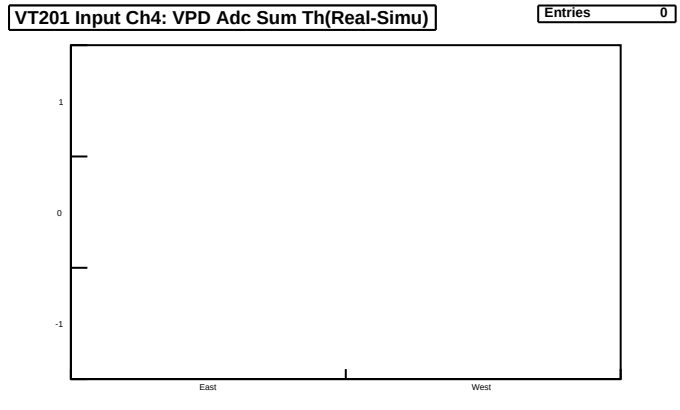

VT201 Input Ch2: ZDC Adc Sum Th
Entries 46160
100
38
80
36
5670
5732
5770
5770
5690
5734
5770
5770
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

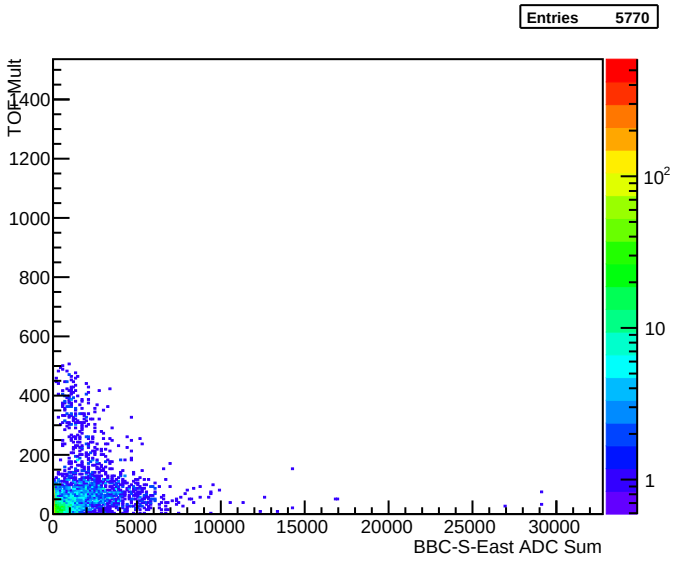

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

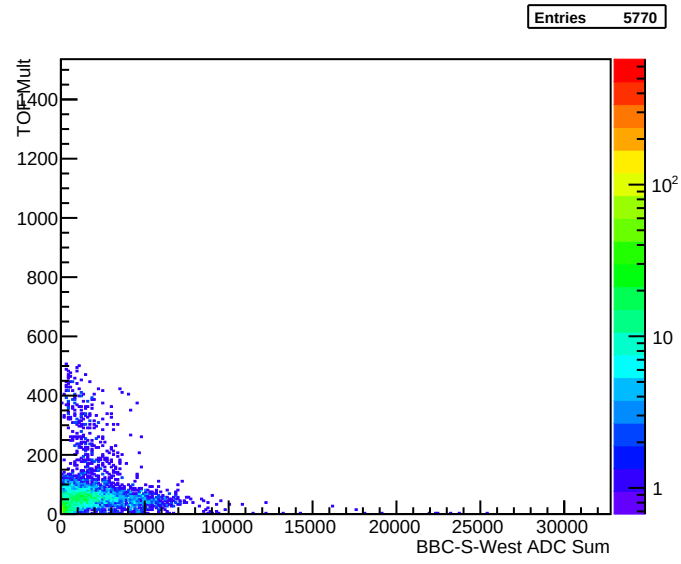

VT201 Input Ch4: VPD Tac Diff
Entries 5770
Tac

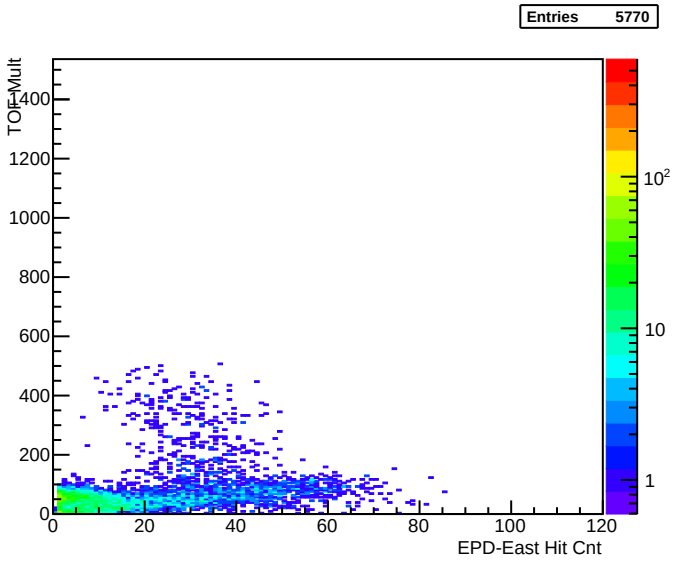

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

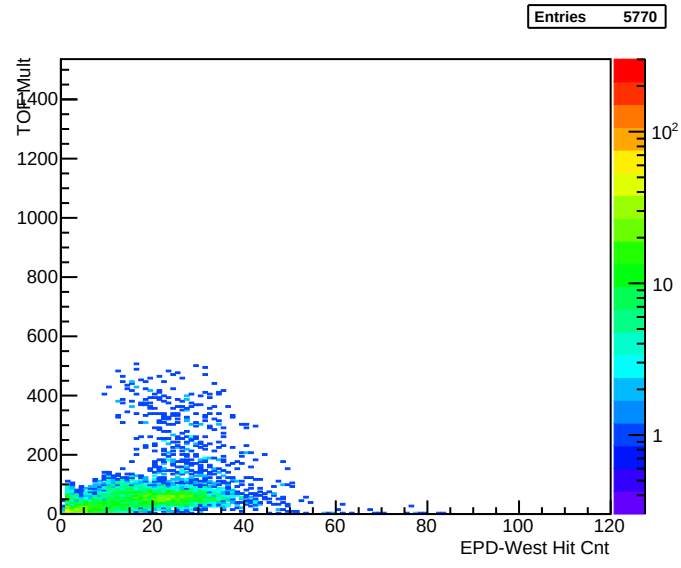

VT201 Input Ch4: VPD Adc Sum Th
Entries 11540
2562
4285
3208
1485
East
West

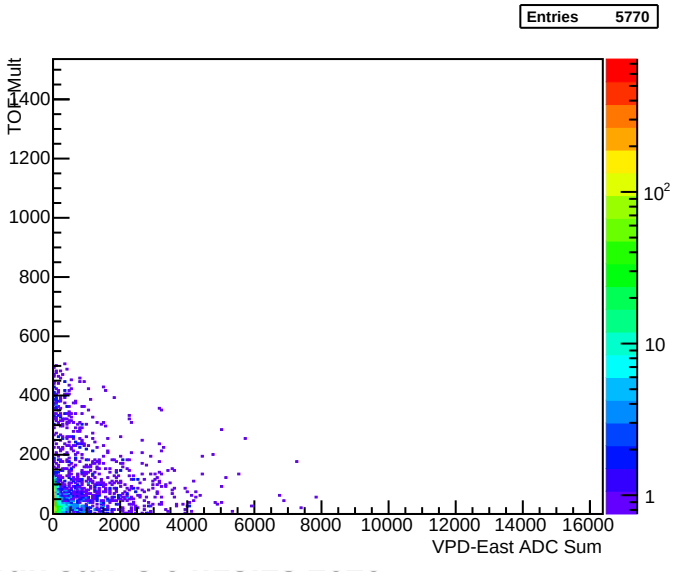

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

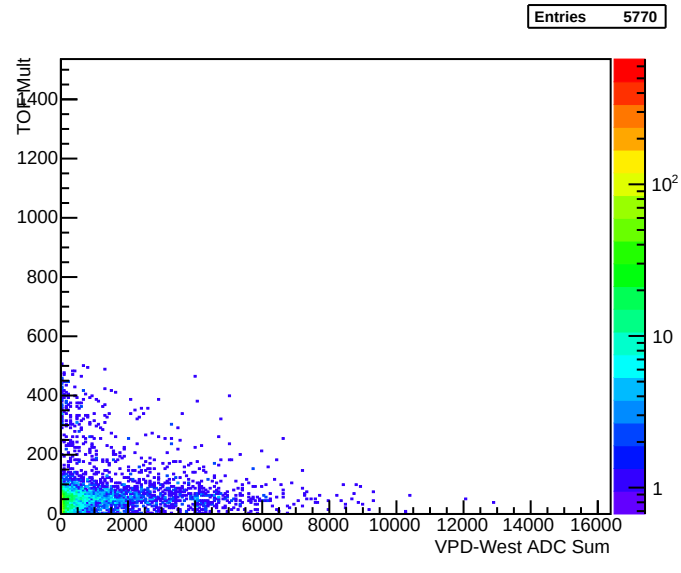

Entries 5770
TOF-Mult
BBC-S-East ADC Sum

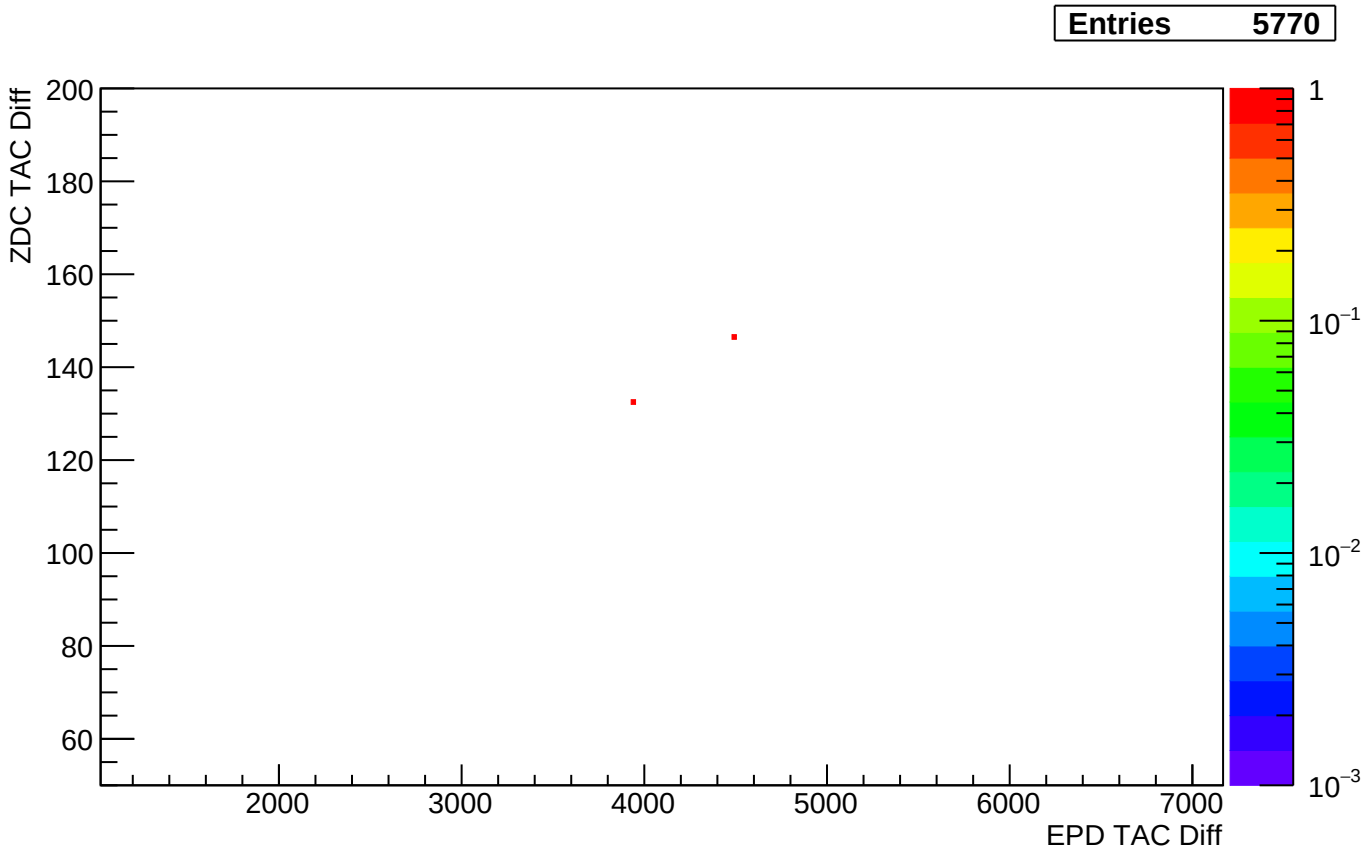

Entries 5770
TOF-Mult
BBC-S-West ADC Sum

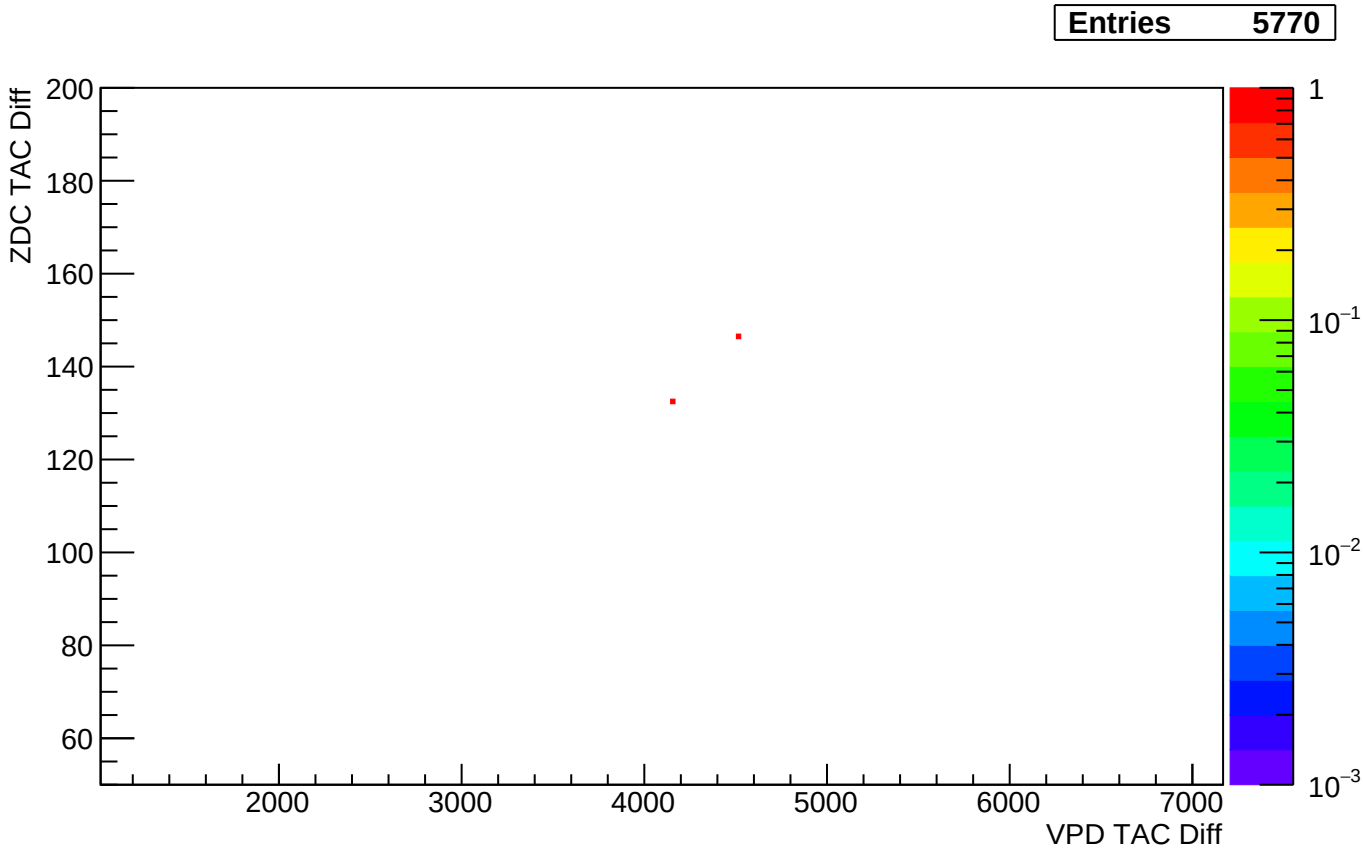

Entries 5770
TOF-Mult
EPD-East Hit Cnt

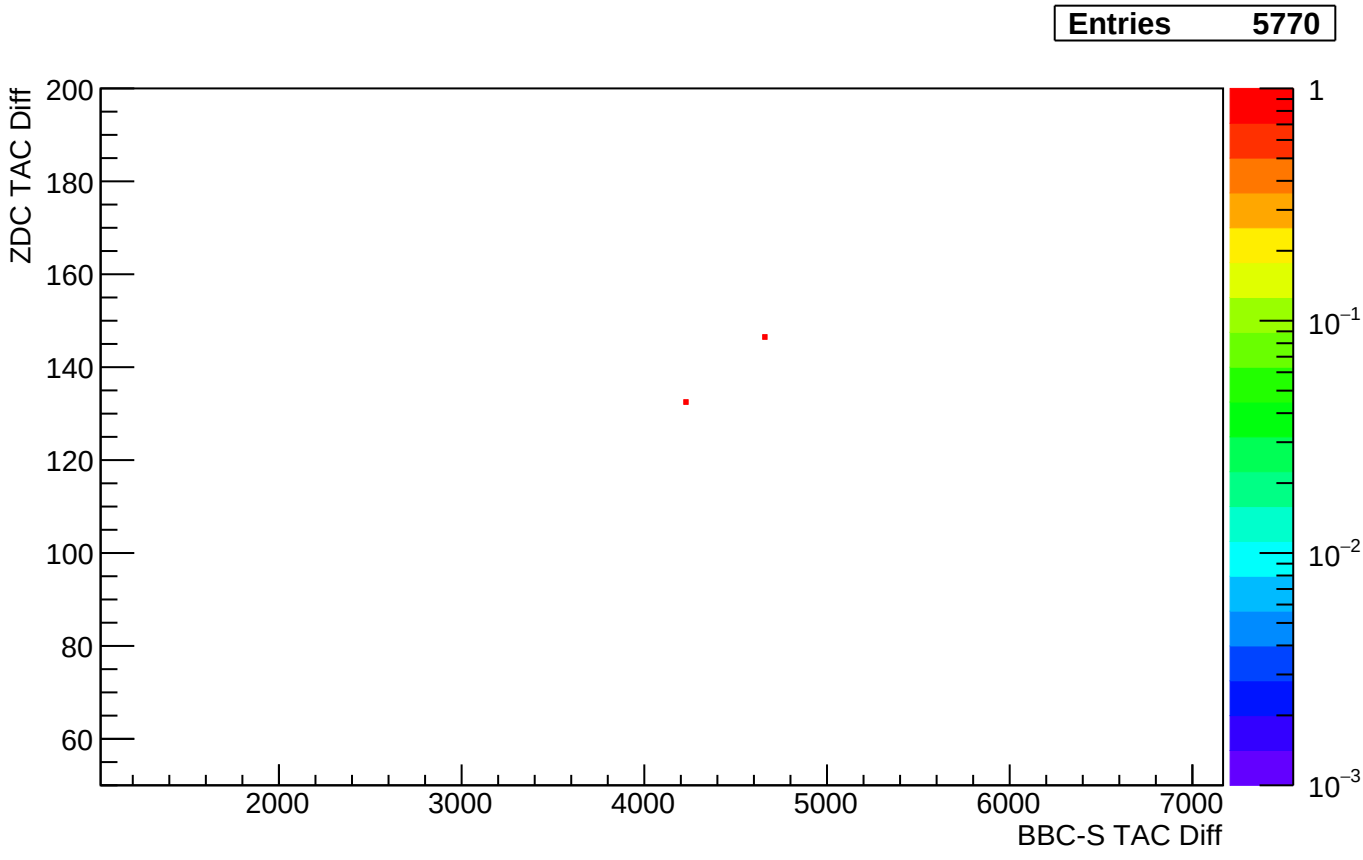

Entries 5770
TOF-Mult
EPD-West Hit Cnt

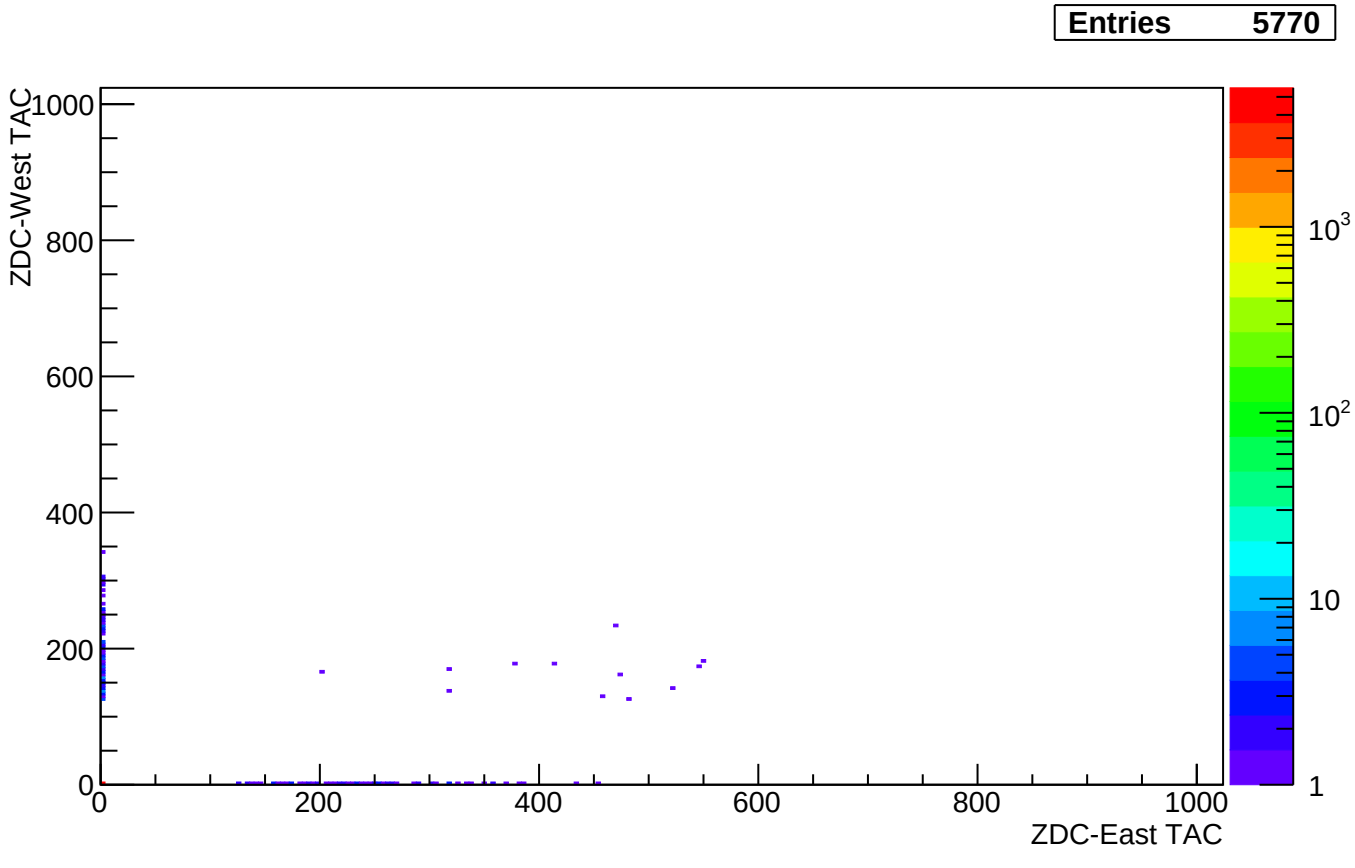

Entries 5770
TOF-Mult
VPD-East ADC Sum

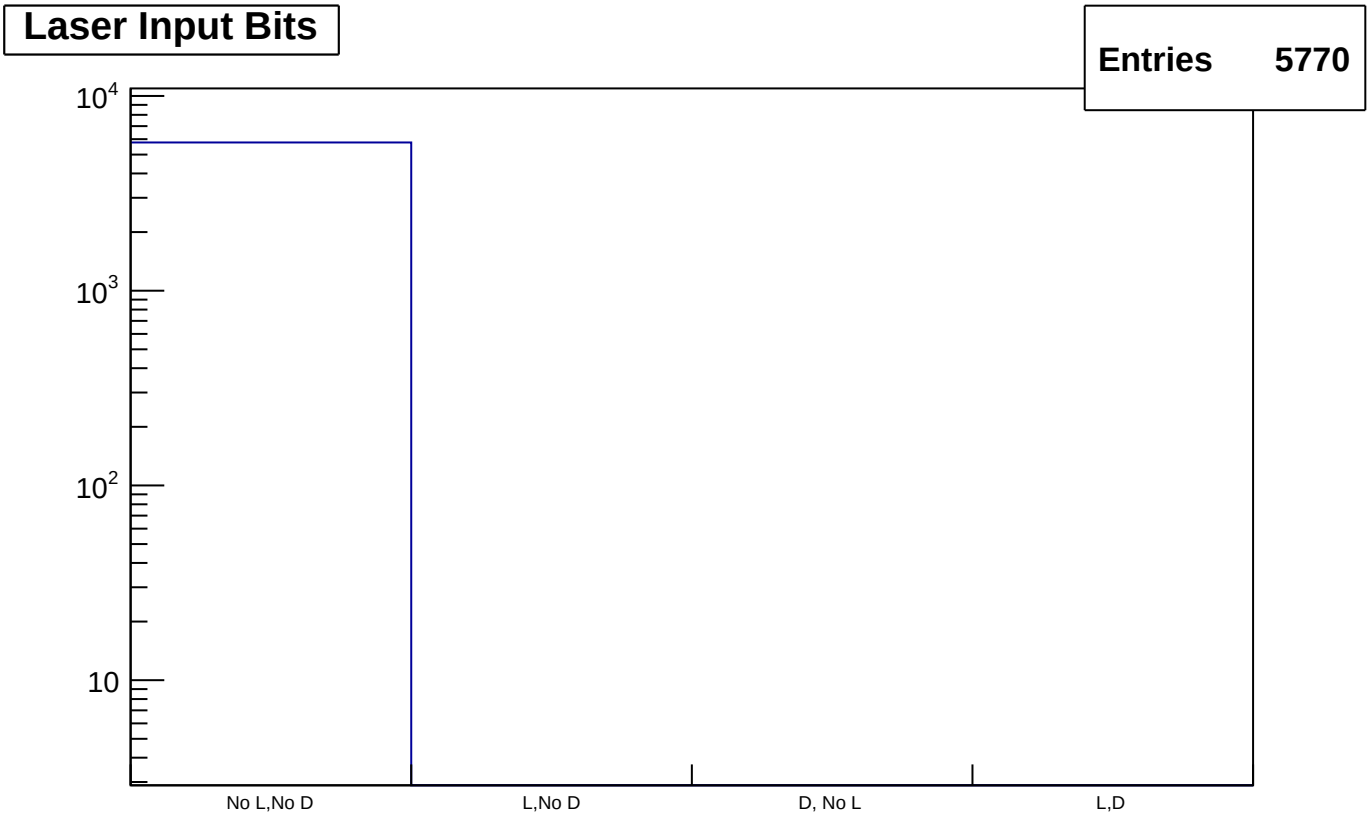

Entries 5770
TOF-Mult
VPD-West ADC Sum

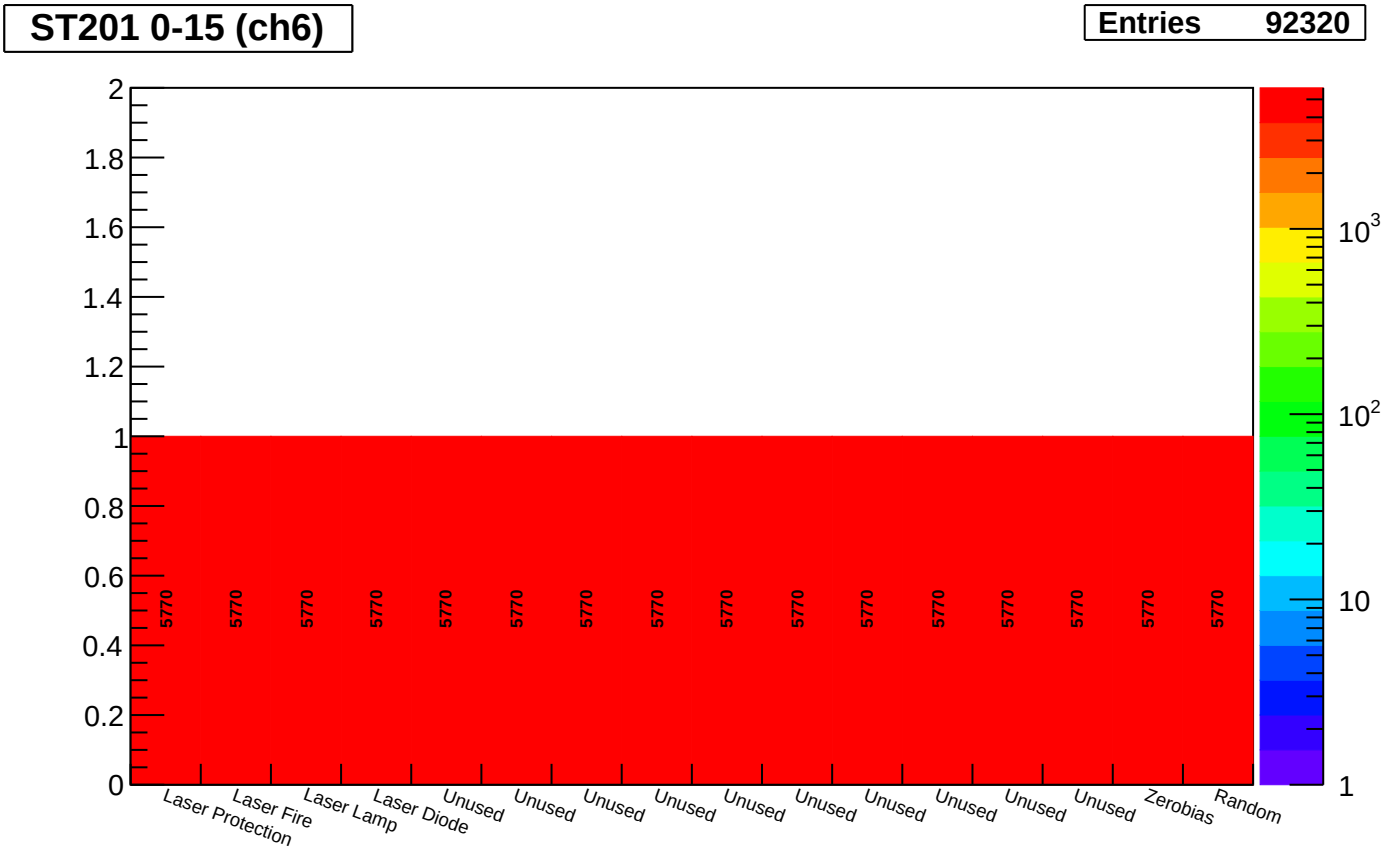

Entries 5770
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

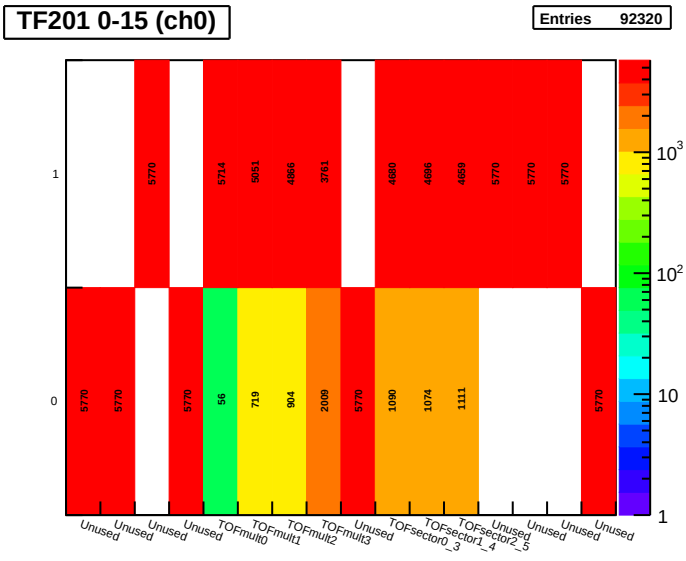

Entries 5770
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

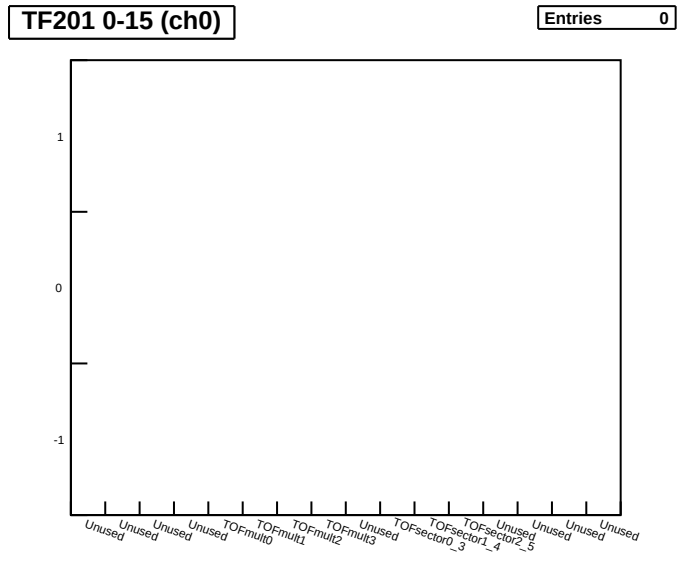

Entries 5770
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

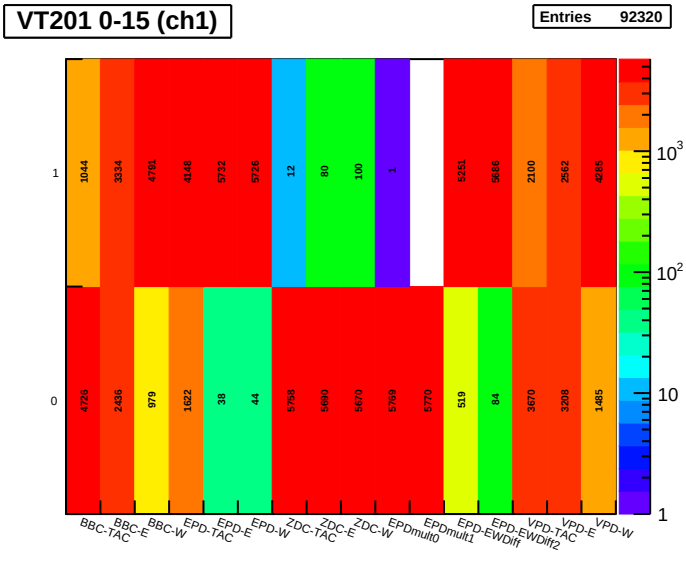

Entries 5770
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^3
10^2
10
1

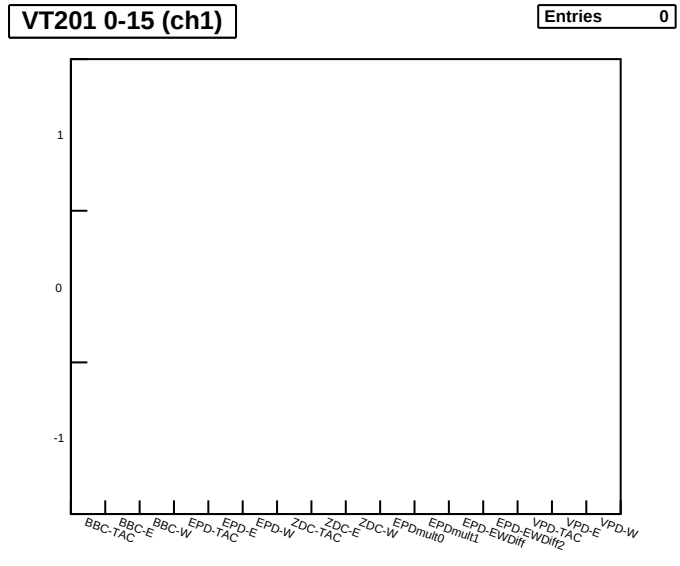

Laser Input Bits
Entries 5770
10^4
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

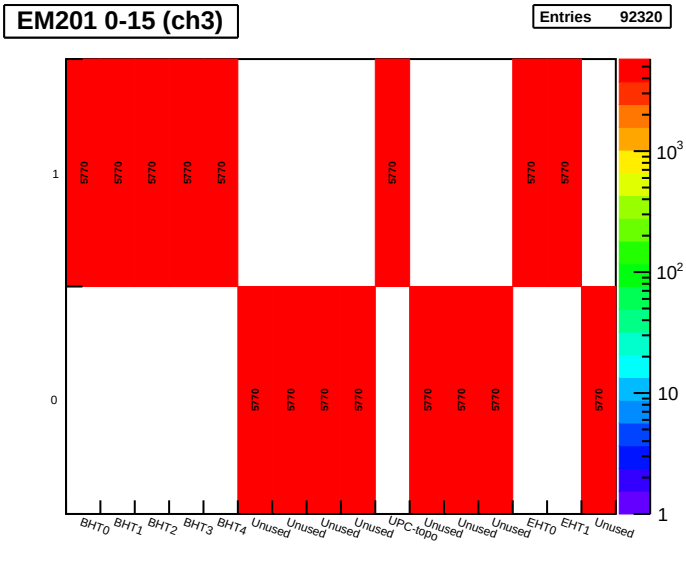

ST201 0-15 (ch6)
Entries 92320
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5770
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^3
10^2
10
1

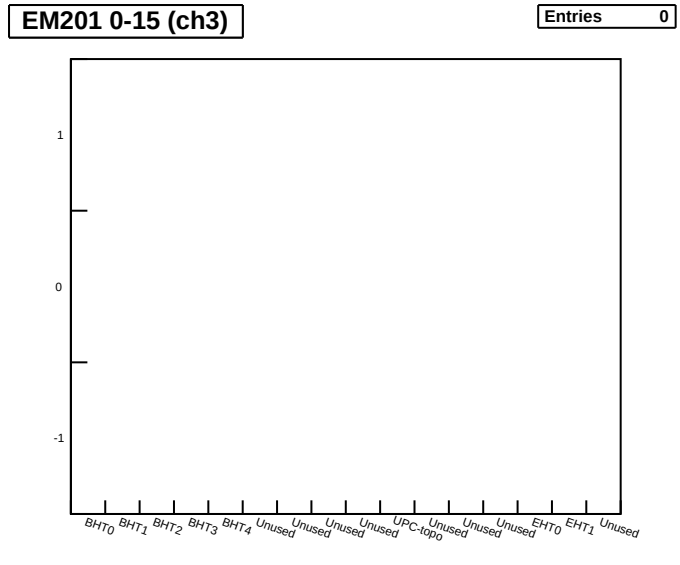

TF201 0-15 (ch0)
Entries 92320
1
0
5770 5714 5051 4866 3761 4680 4696 4659 5770 5770 5770
5770 5770 5770 56 719 904 2009 5770 1090 1074 1111 5770
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused
10^3
10^2
10
1


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 92320
1
0
1044 3334 4791 4148 5732 5726 12 80 100 1 5251 5686 2100 2562 4285
4726 2436 979 1622 38 44 5758 5680 5670 5769 5770 519 84 3670 3208 1485
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 92320
1
0
5770 5770 5770 5770 5770 5770 5770 5770
5770 5770 5770 5770 5770 5770 5770 5770
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