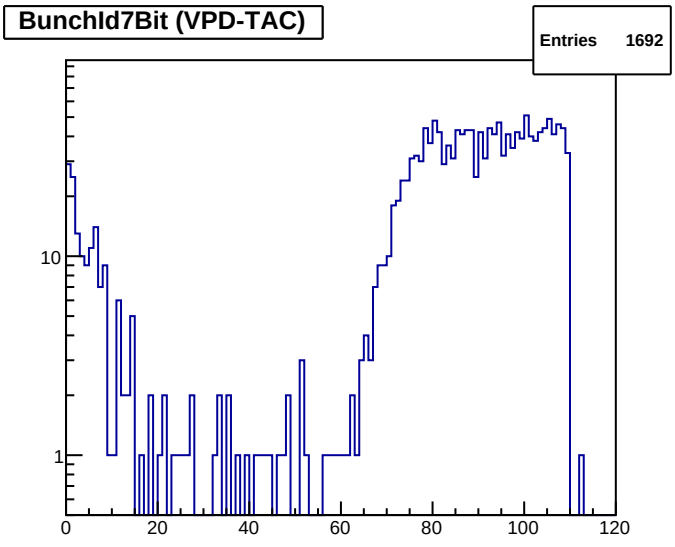
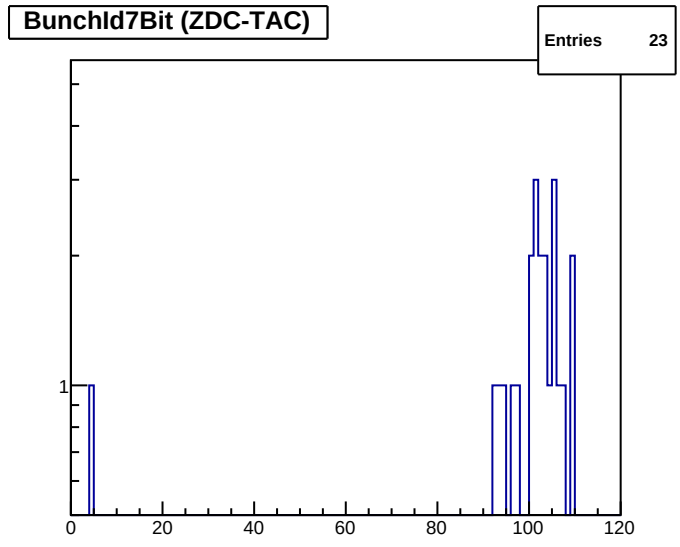
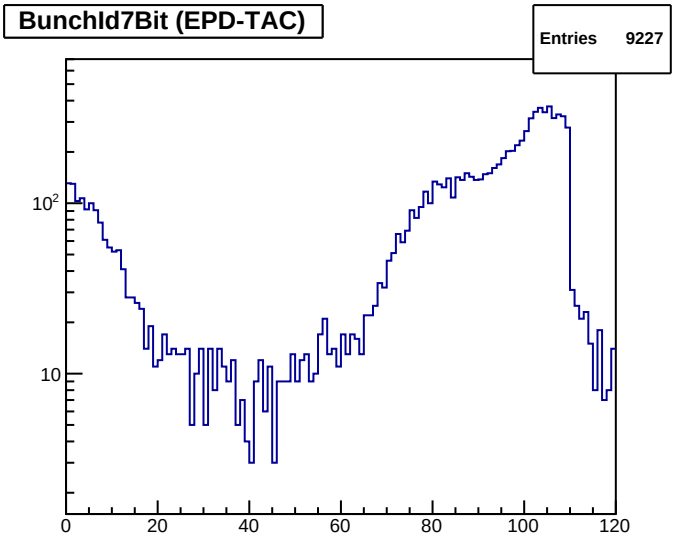
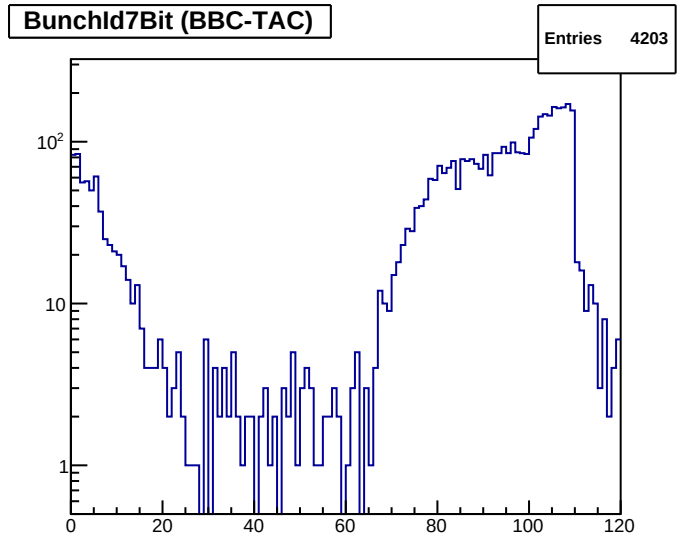
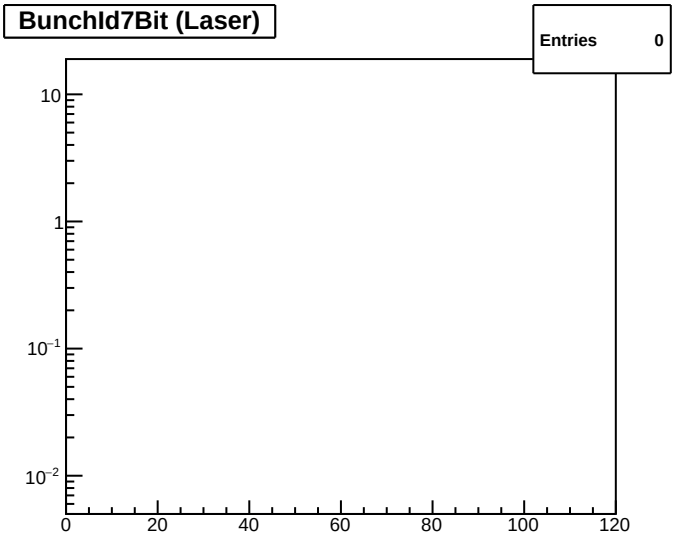
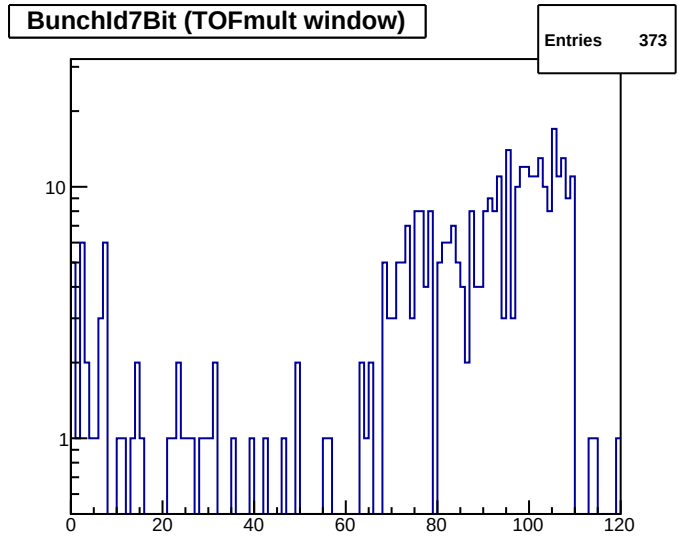

BunchId7Bit (VPD-TAC)
Entries 1692
10
1
0
20
40
60
80
100
120

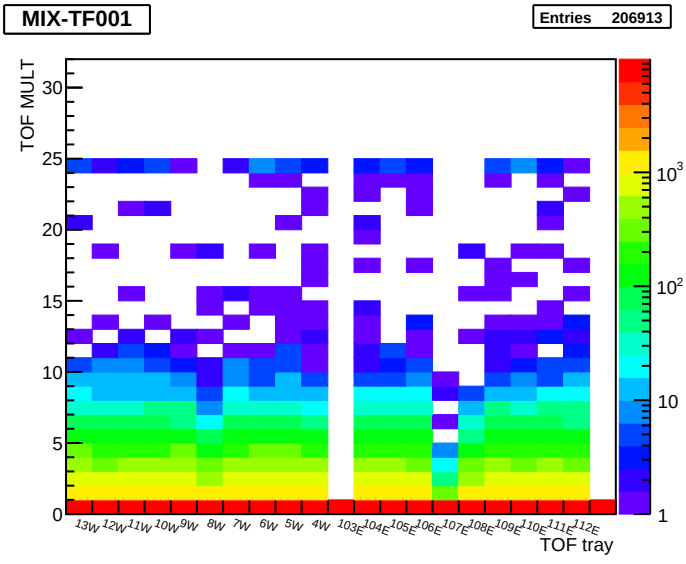

BunchId7Bit (ZDC-TAC)
Entries 23
1
0
20
40
60
80
100
120

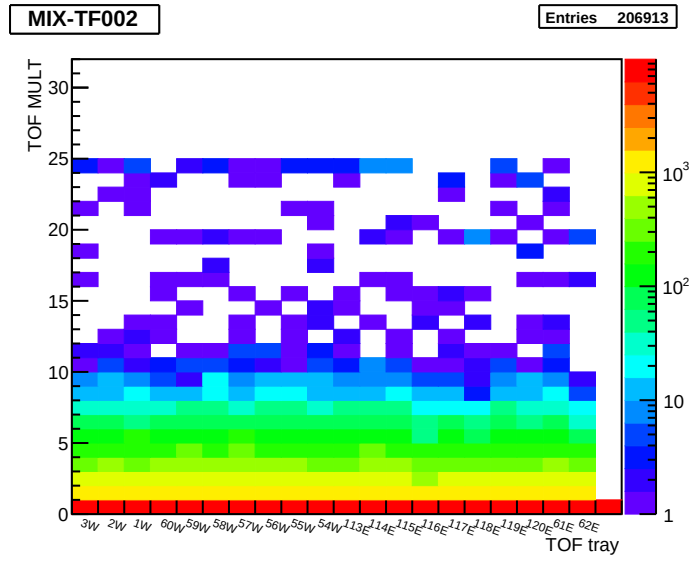

BunchId7Bit (EPD-TAC)
Entries 9227
10^2
10
0
20
40
60
80
100
120

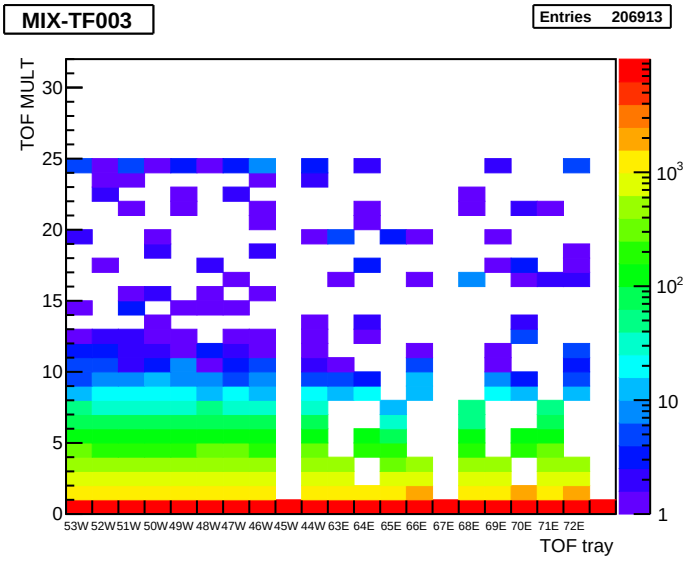

BunchId7Bit (BBC-TAC)
Entries 4203
10^2
10
1
0
20
40
60
80
100
120

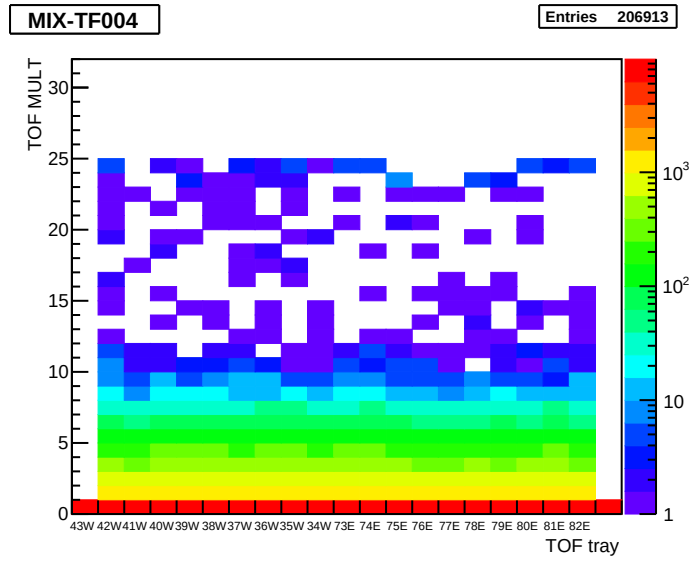

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

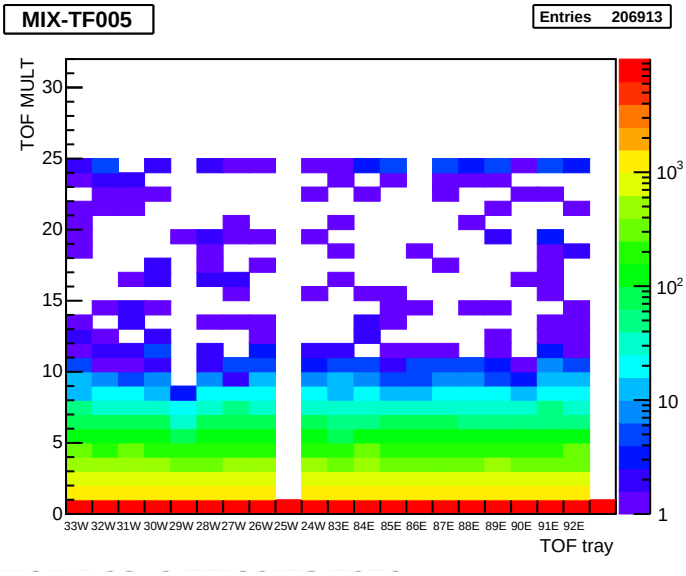

BunchId7Bit (TOFmult window)
Entries 373
10
1
0
20
40
60
80
100
120

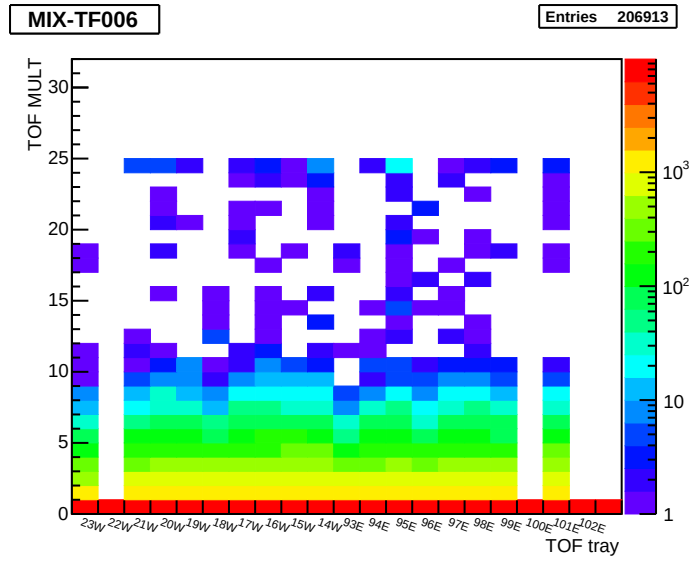

MIX-TF001
Entries 206913
TOF MULT
TOF tray

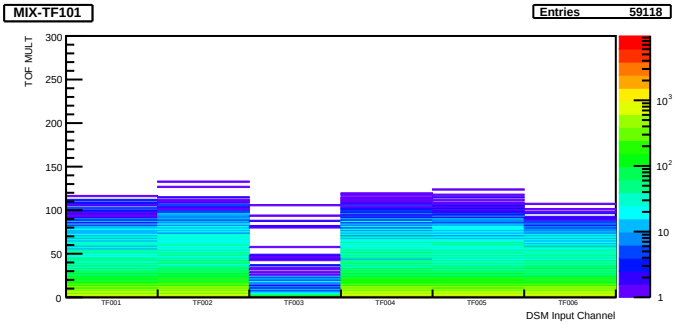

MIX-TF002
Entries 206913
TOF MULT
TOF tray

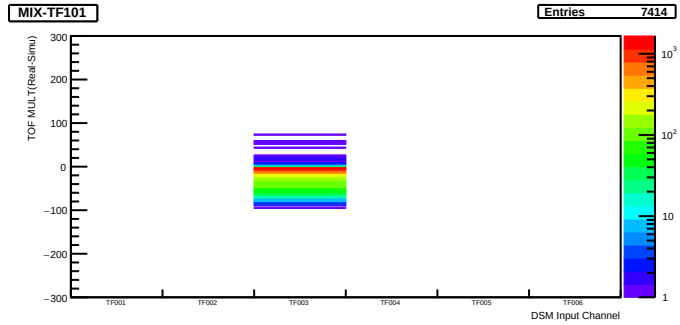

MIX-TF003
Entries 206913
TOF MULT
TOF tray

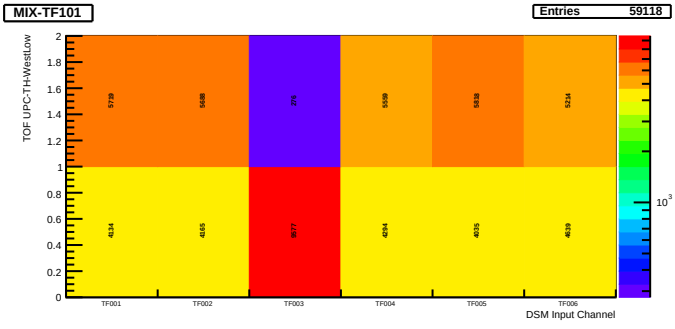

MIX-TF004
Entries 206913
TOF MULT
TOF tray

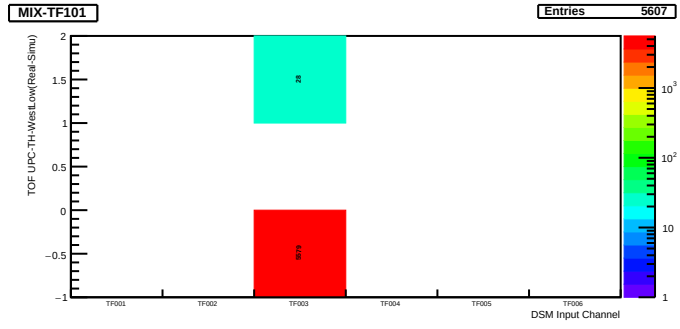

MIX-TF005
Entries 206913
TOF MULT
TOF tray

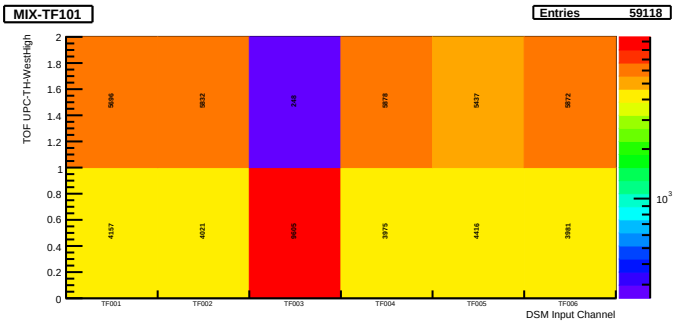

MIX-TF006
Entries 206913
TOF MULT
TOF tray

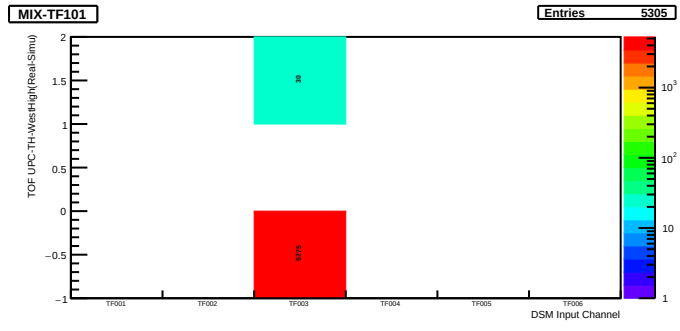

MIX-TF101
Entries 59118
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

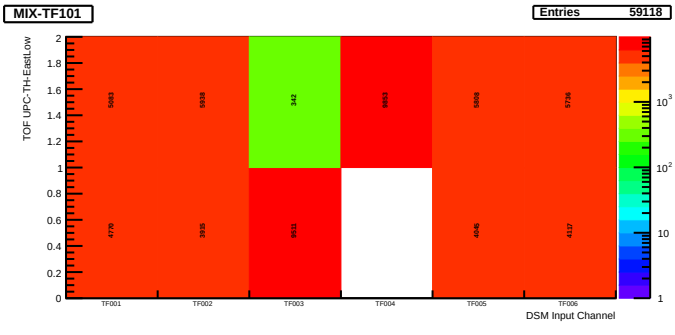

MIX-TF101
Entries 7414
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

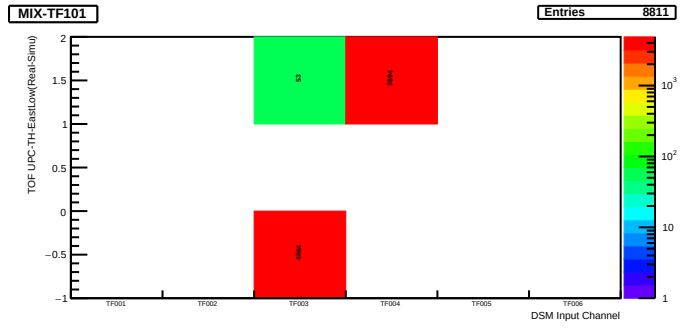

MIX-TF101
Entries 59118
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

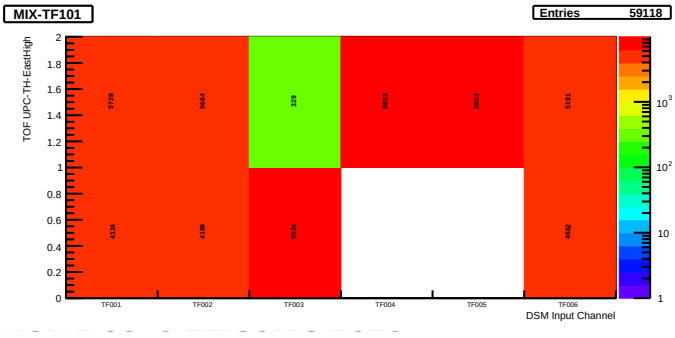

MIX-TF101
Entries 5607
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

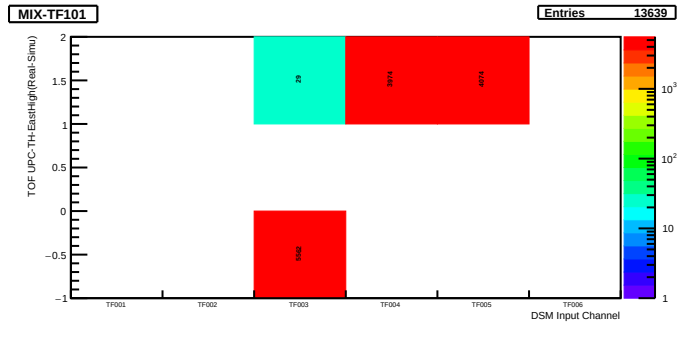

MIX-TF101
Entries 59118
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

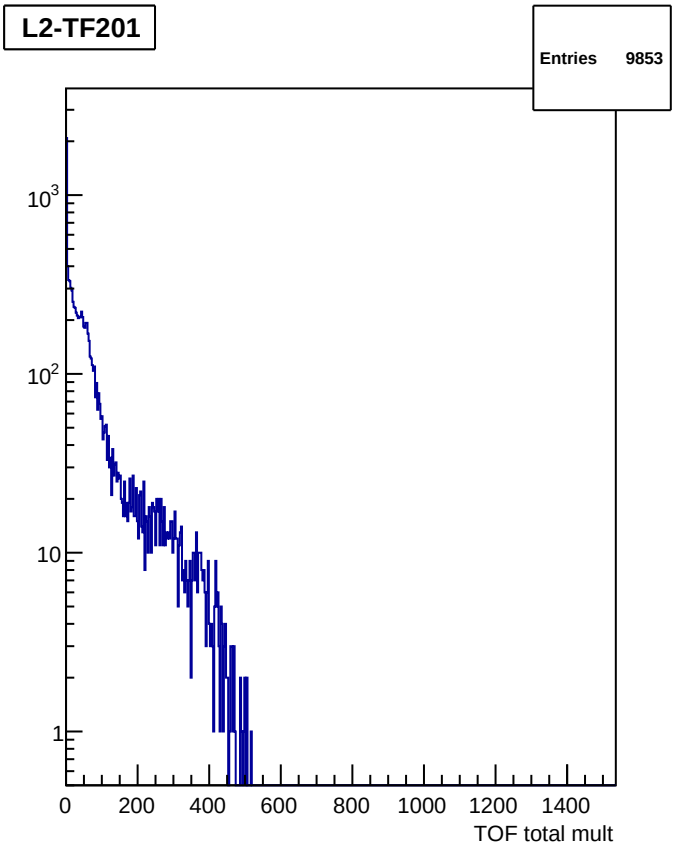

MIX-TF101
Entries 5305
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

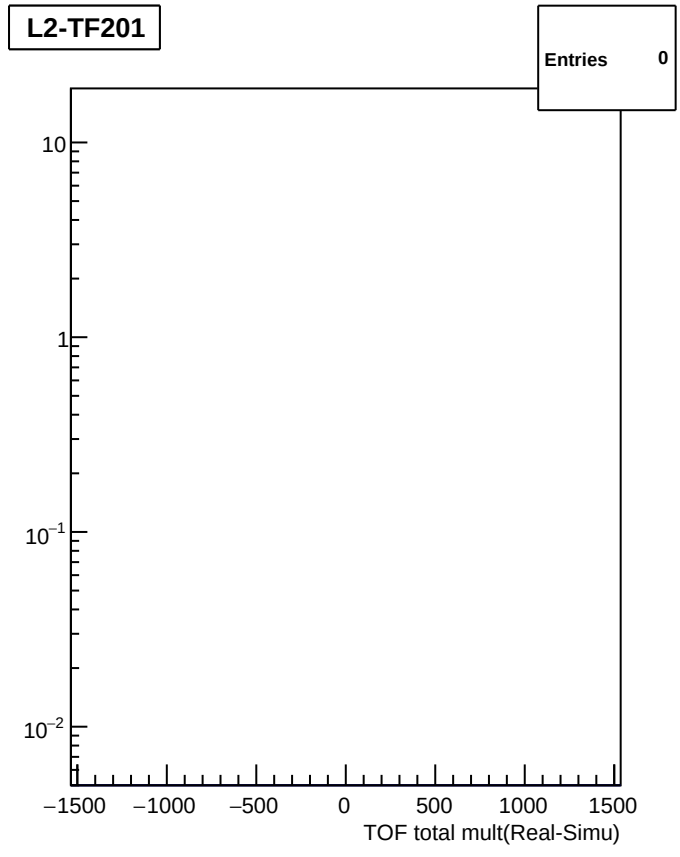

MIX-TF101
Entries 59118
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

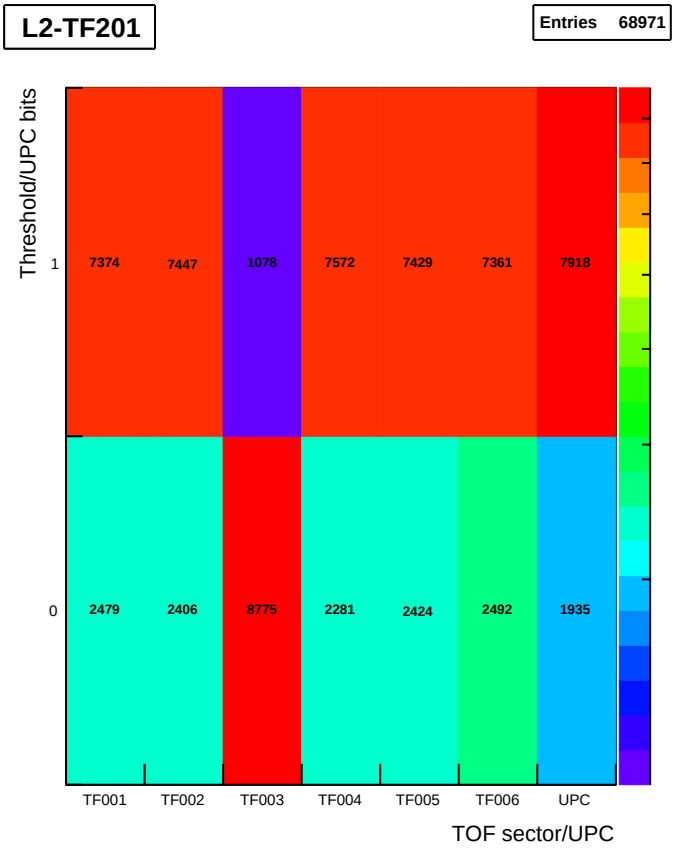

MIX-TF101
Entries 8811
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

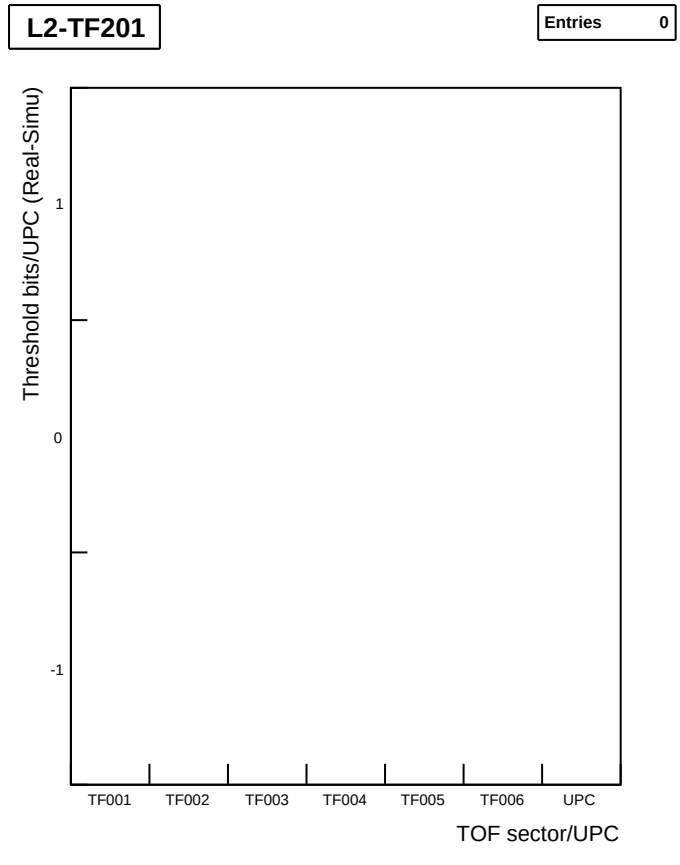

MIX-TF101
Entries 59118
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

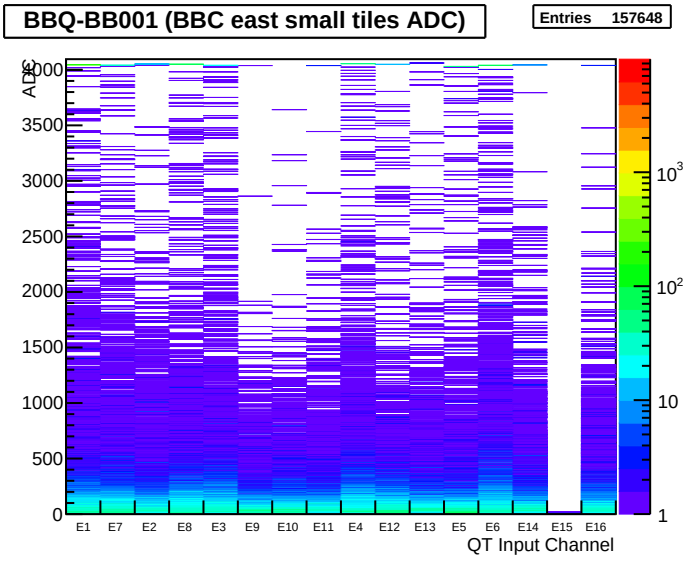

MIX-TF101
Entries 13639
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

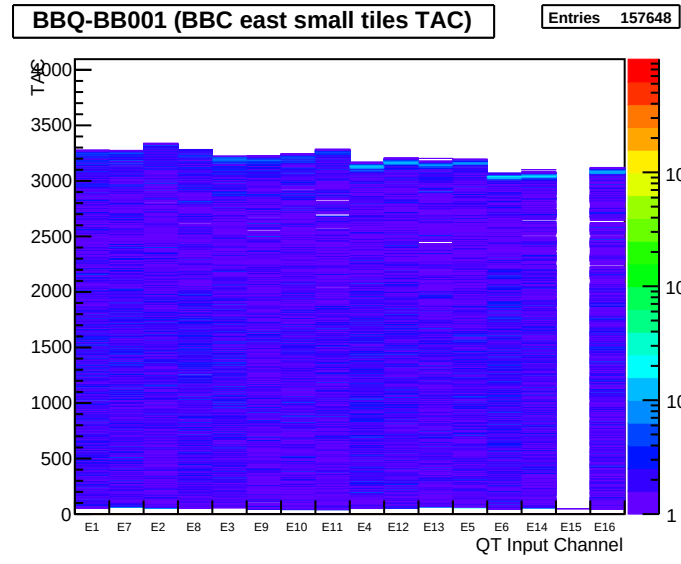

L2-TF201
Entries 9853
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

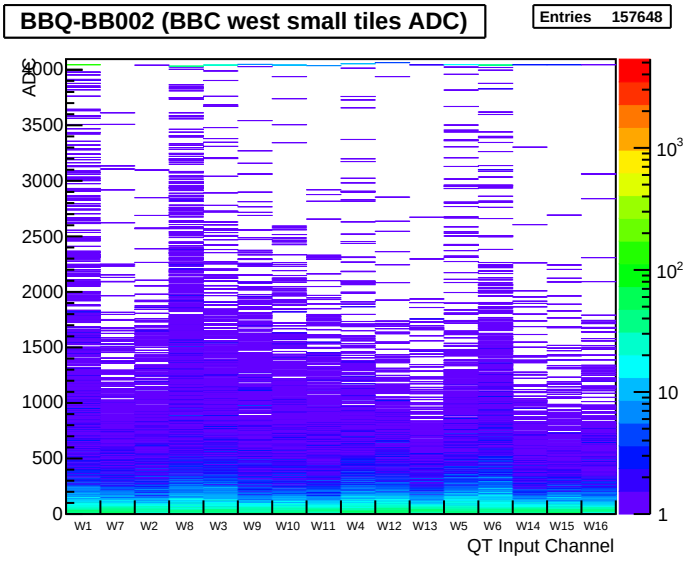

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

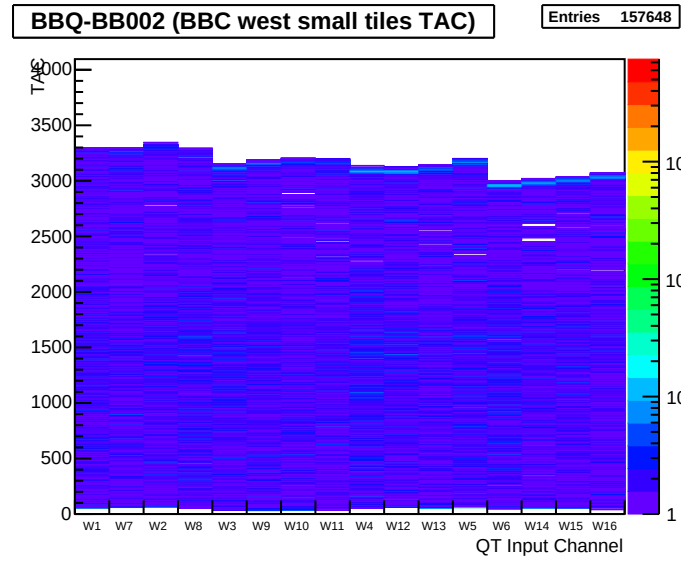

L2-TF201
Entries 68971
Threshold/UPC bits
1
0
7374
7447
1078
7572
7429
7361
7918
2479
2406
8775
2281
2424
2492
1935
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

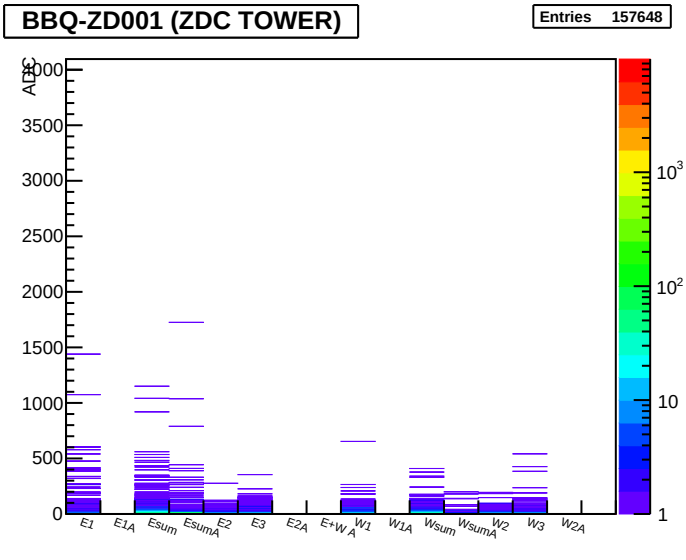

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

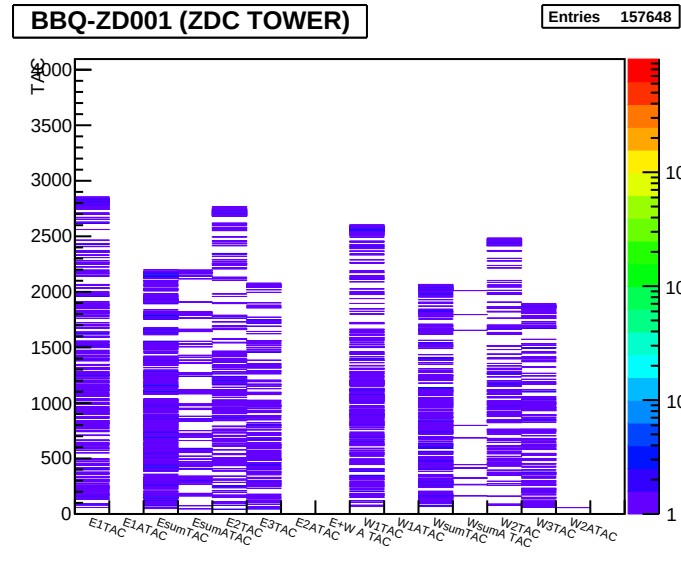

BBQ-BB001 (BBC east small tiles ADC)
Entries 157648
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

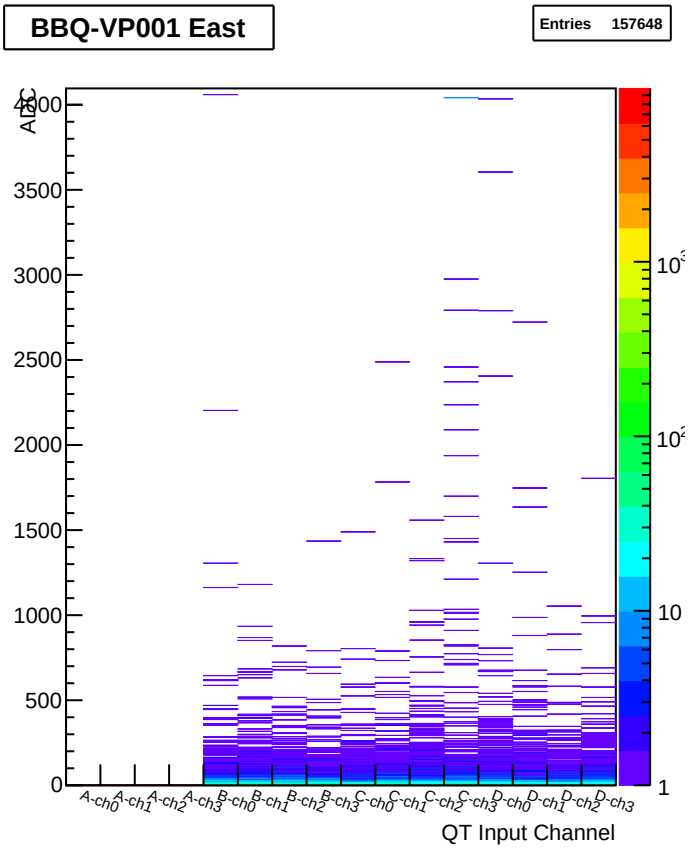

BBQ-BB001 (BBC east small tiles TAC)
Entries 157648
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

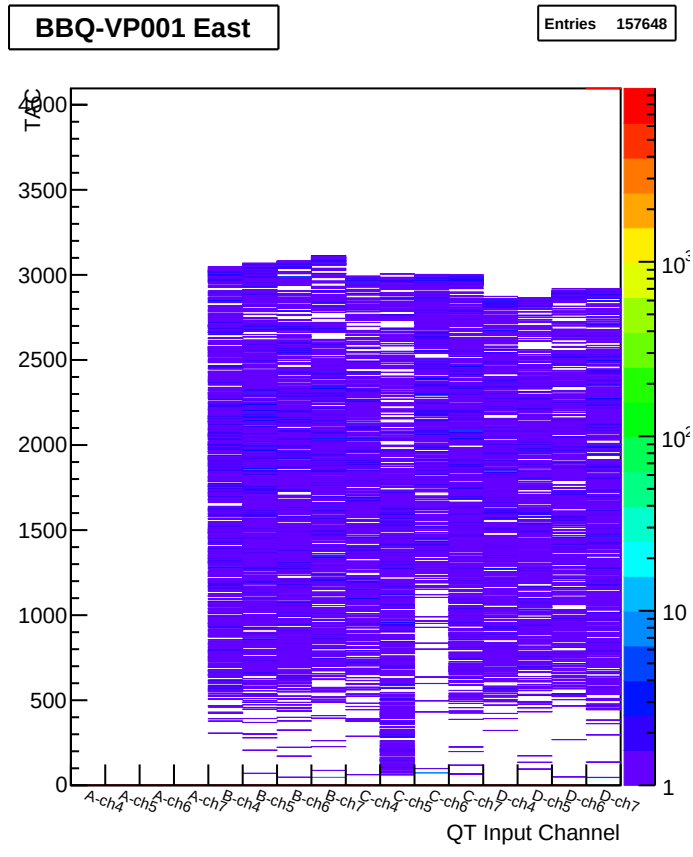

BBQ-BB002 (BBC west small tiles ADC)
Entries 157648
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

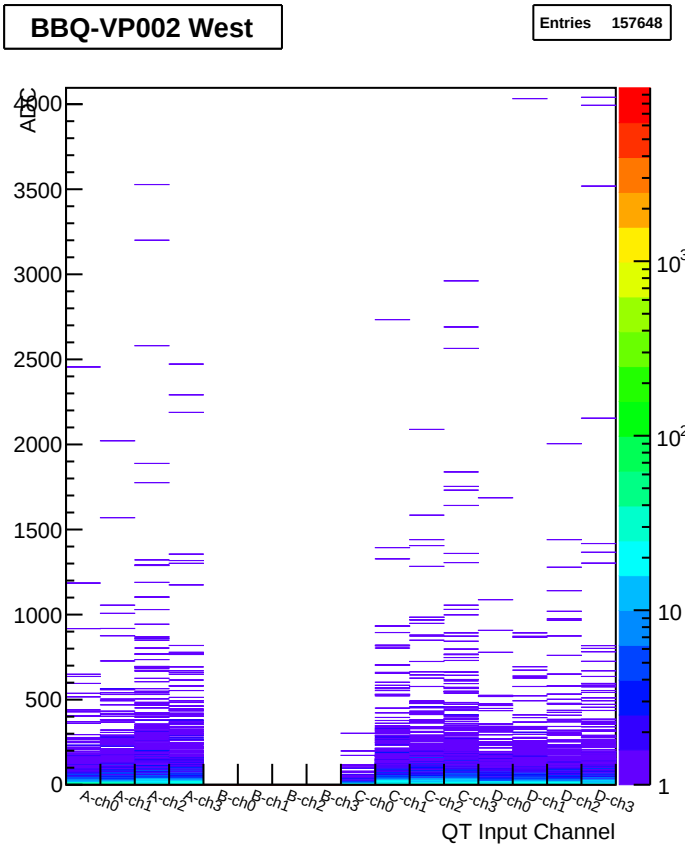

BBQ-BB002 (BBC west small tiles TAC)
Entries 157648
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

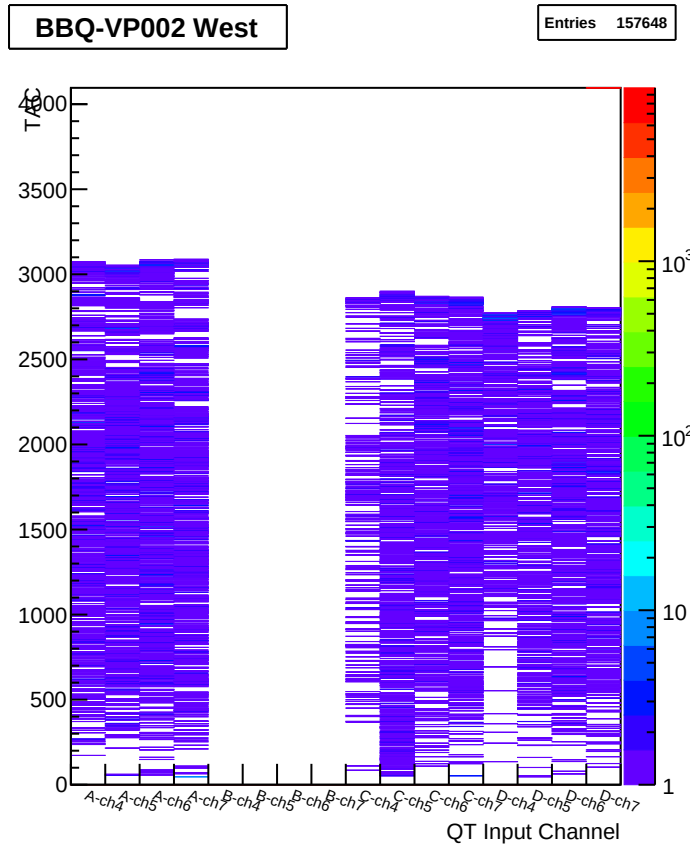

BBQ-ZD001 (ZDC TOWER)
Entries 157648
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

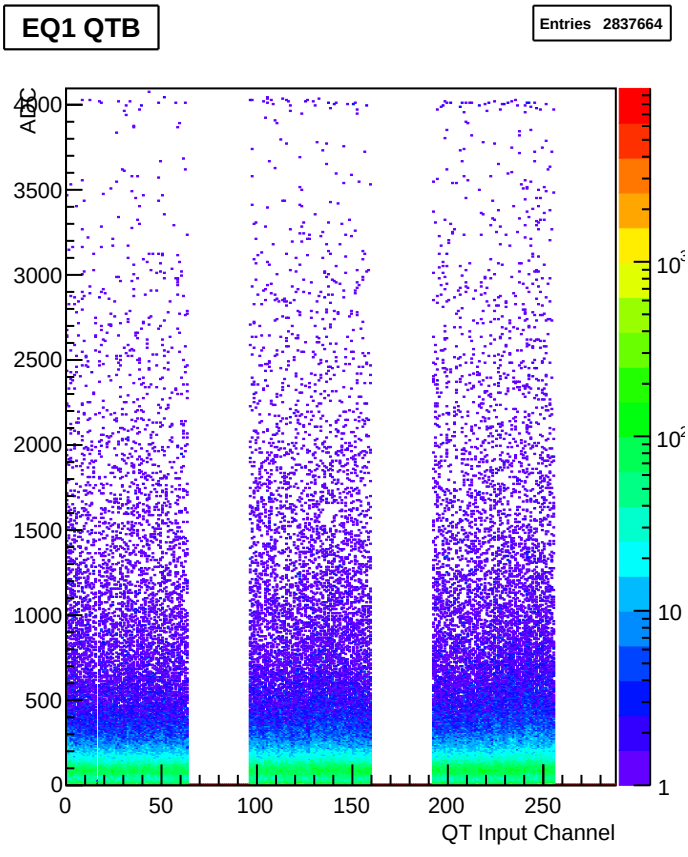

BBQ-ZD001 (ZDC TOWER)
Entries 157648
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

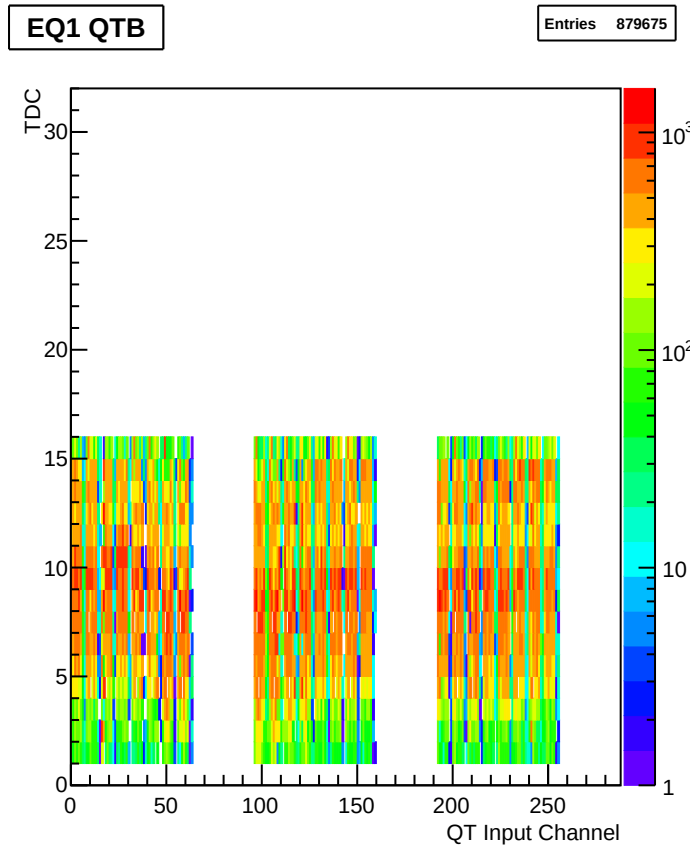

BBQ-VP001 East
Entries 157648
ADC
QT Input Channel

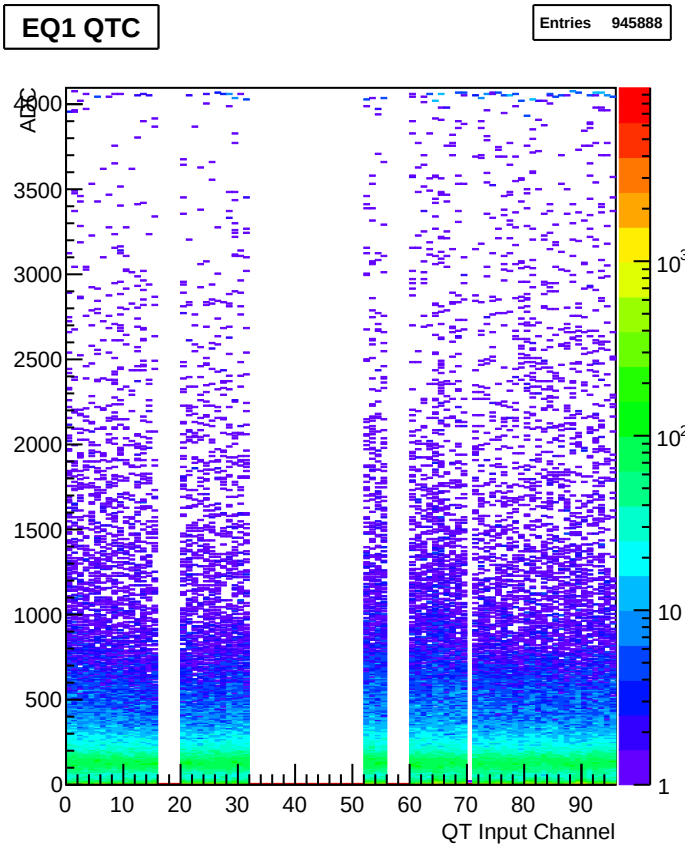

BBQ-VP001 East
Entries 157648
TADC
QT Input Channel

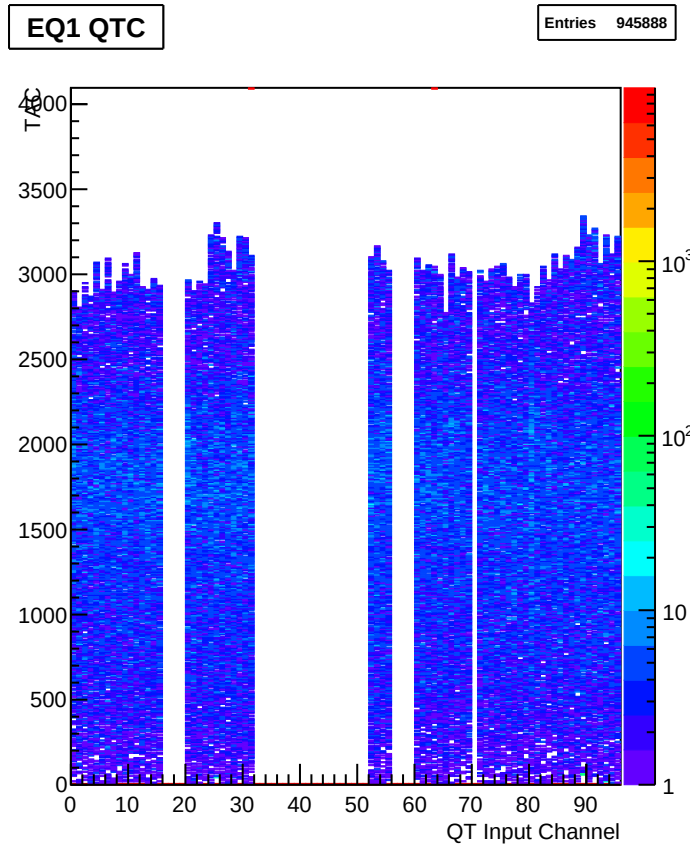

BBQ-VP002 West
Entries 157648
ADC
QT Input Channel

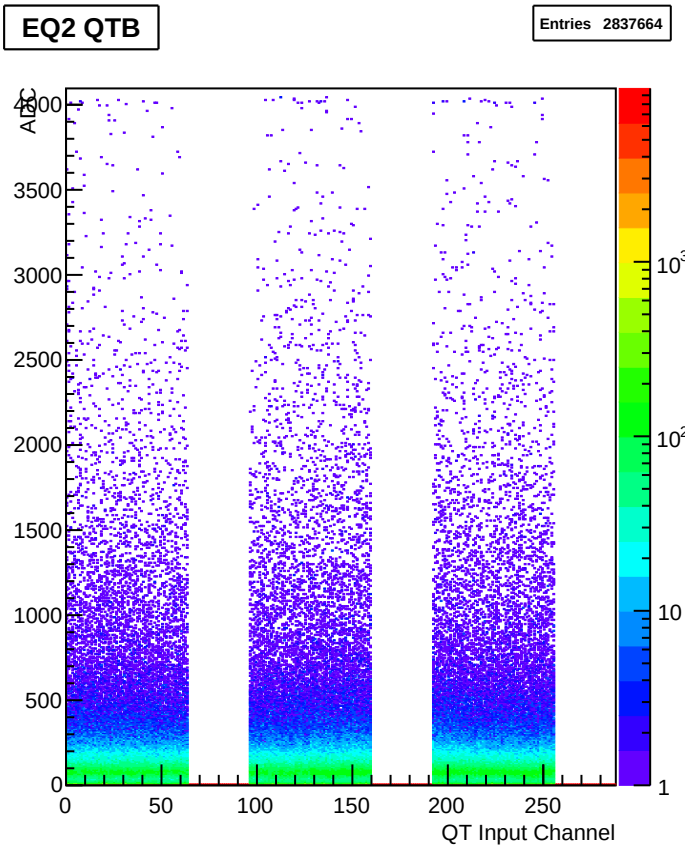

BBQ-VP002 West
Entries 157648
TADC
QT Input Channel

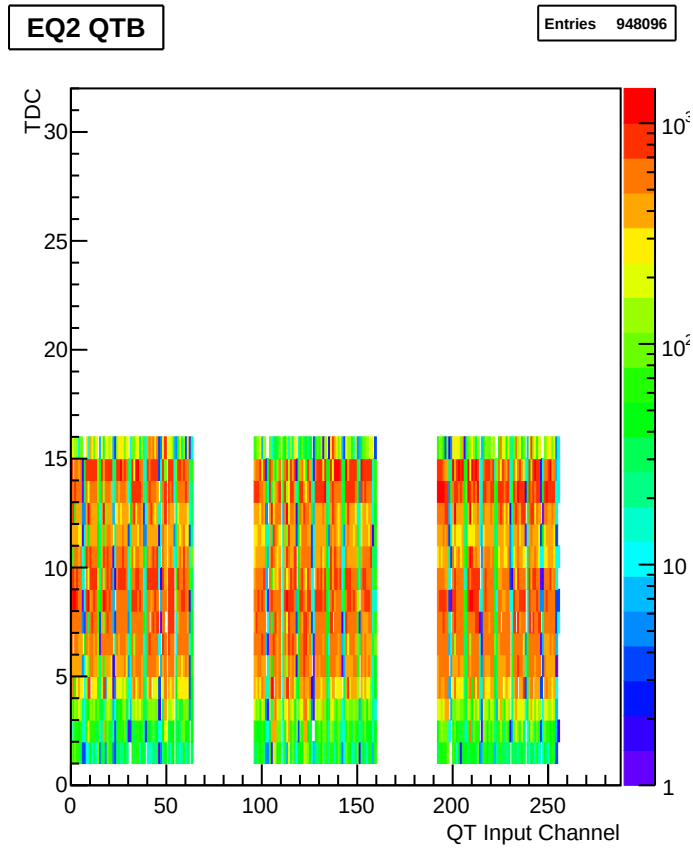

EQ1 QTB
Entries 2837664
ADC
QT Input Channel

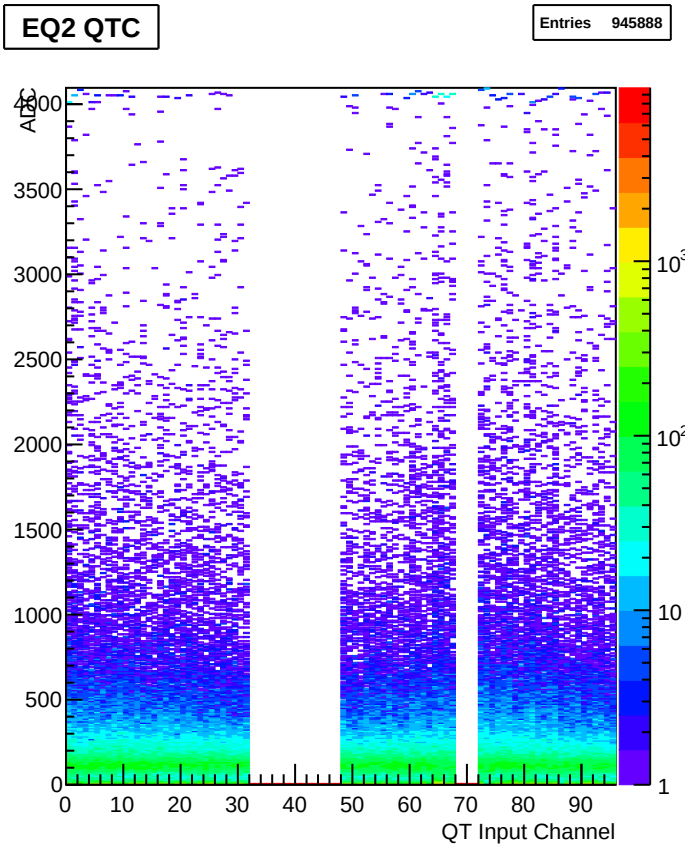

EQ1 QTB
Entries 879675
TDC
QT Input Channel

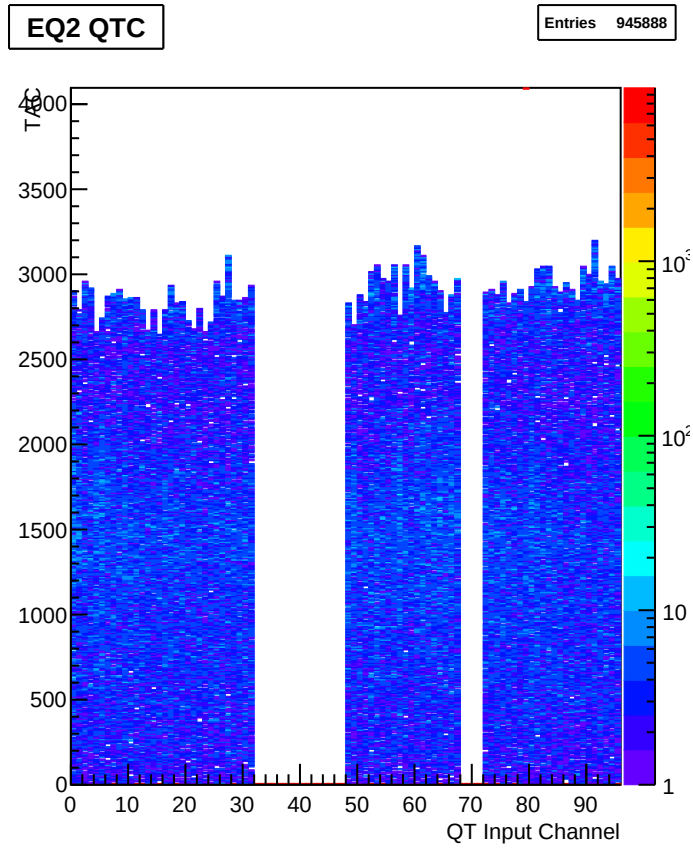

EQ1 QTC
Entries 945888
ADC
QT Input Channel

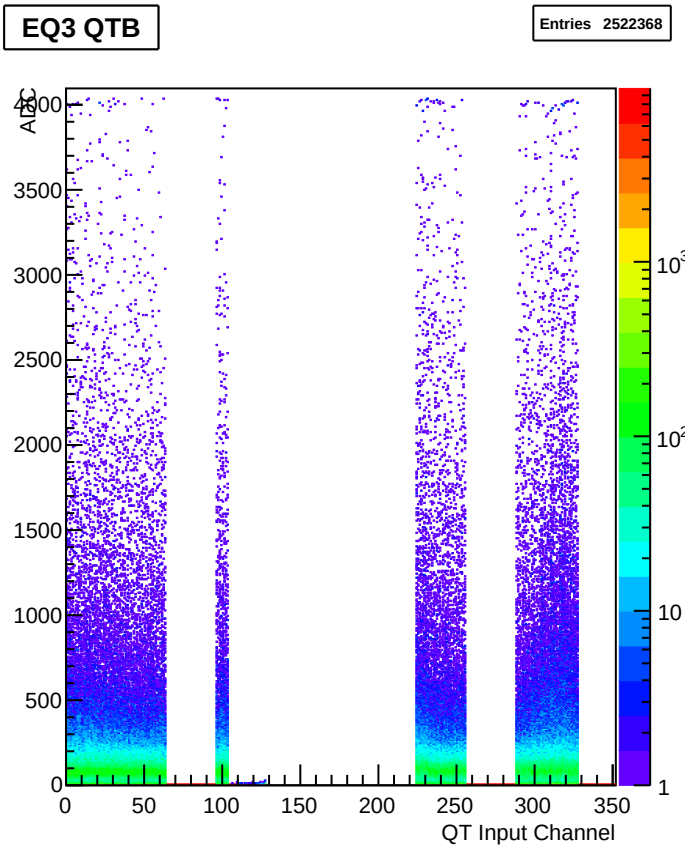

EQ1 QTC
Entries 945888
TADC
QT Input Channel

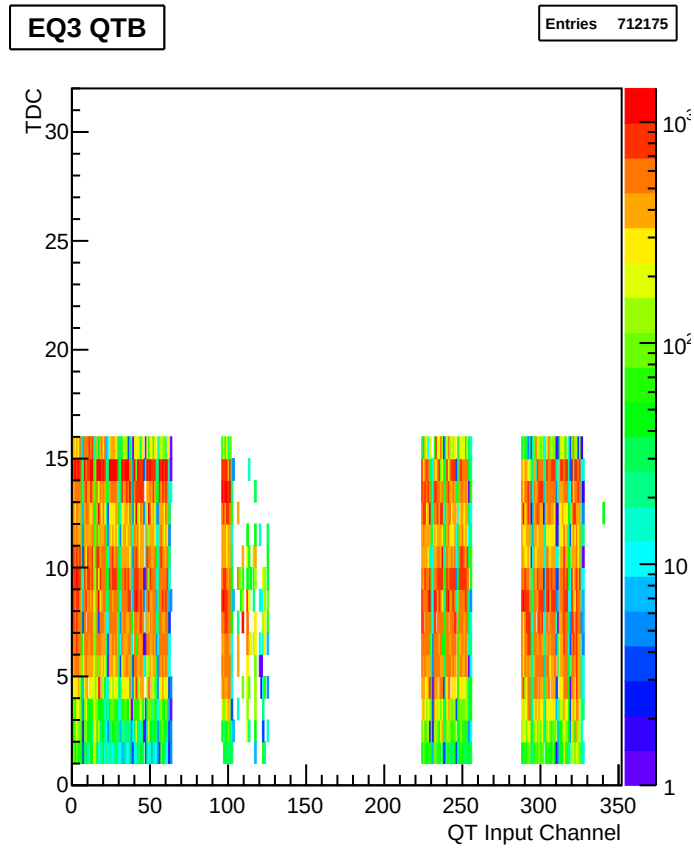

EQ2 QTB
Entries 2837664
ADC
QT Input Channel

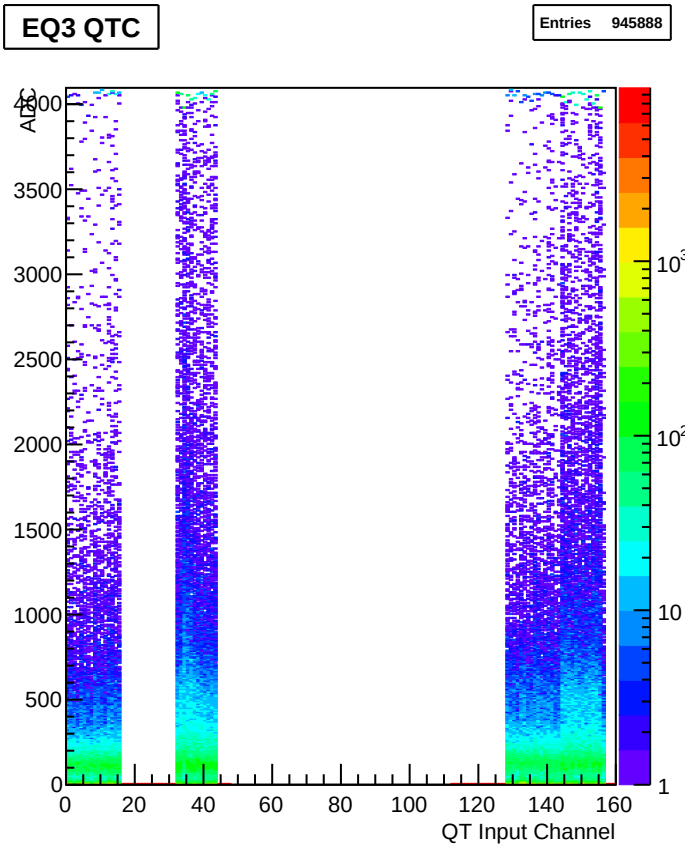

EQ2 QTB
Entries 948096
TDC
QT Input Channel

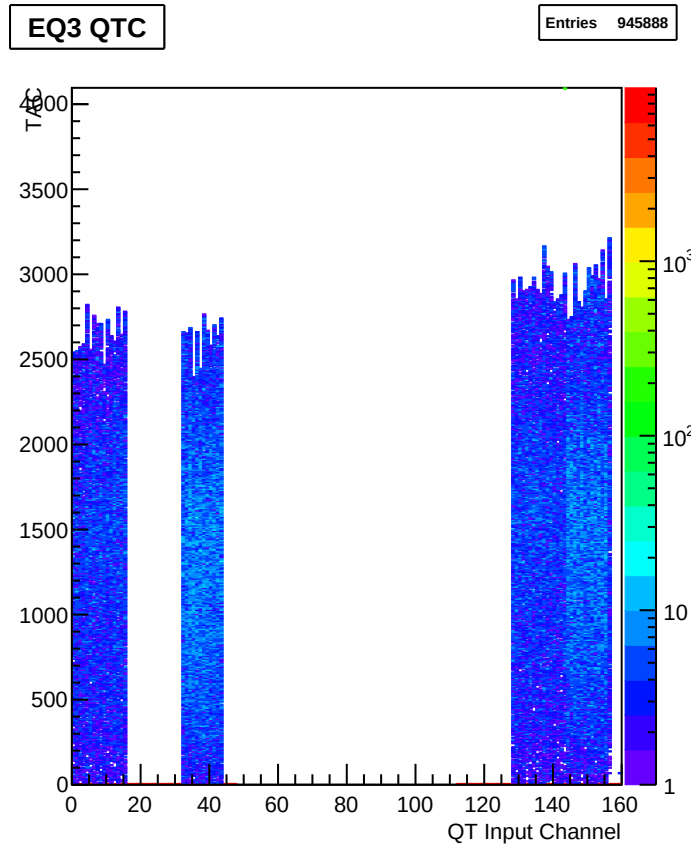

EQ2 QTC
Entries 945888
ADC
QT Input Channel

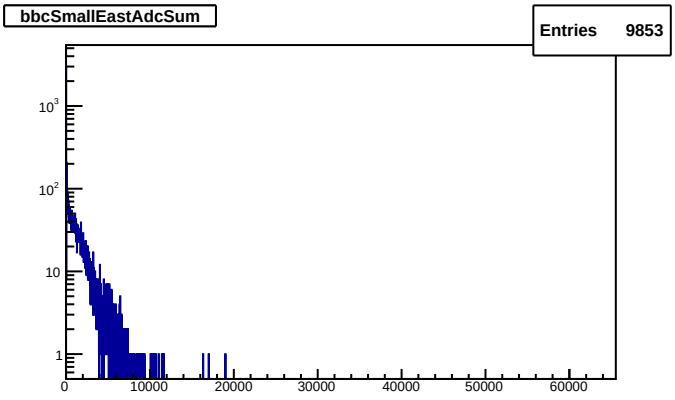

EQ2 QTC
Entries 945888
TADC
QT Input Channel

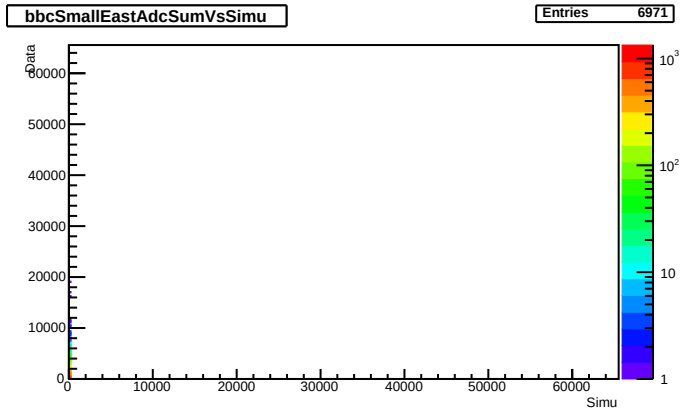

EQ3 QTB
Entries 2522368
ADC
QT Input Channel

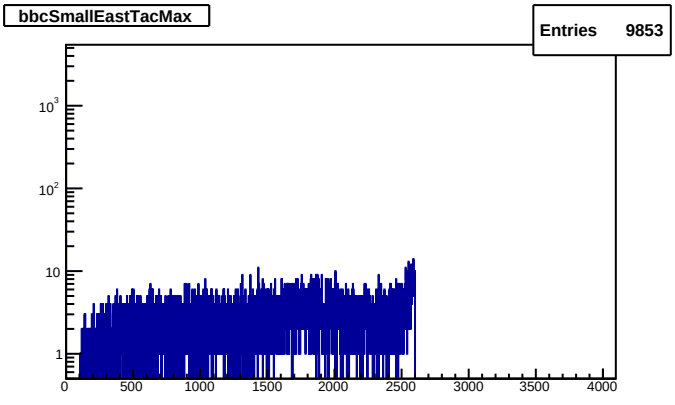

EQ3 QTB
Entries 712175
TDC
QT Input Channel

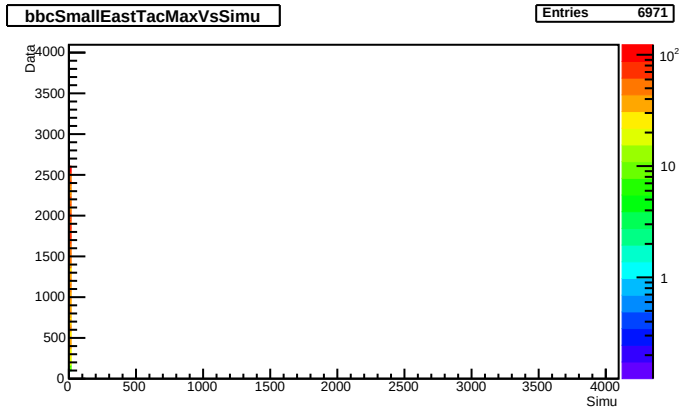

EQ3 QTC
Entries 945888
ADC
QT Input Channel

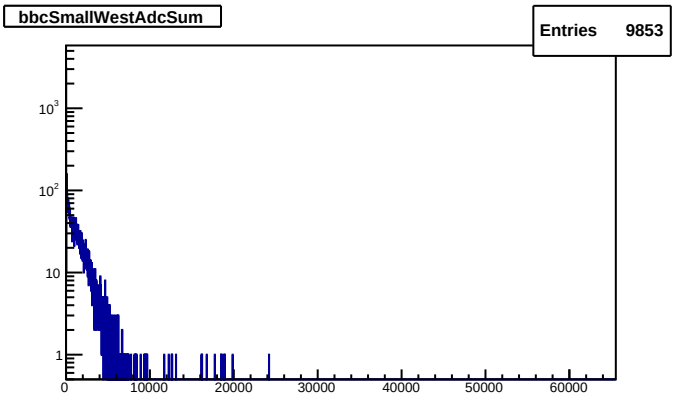

EQ3 QTC
Entries 945888
TADC
QT Input Channel

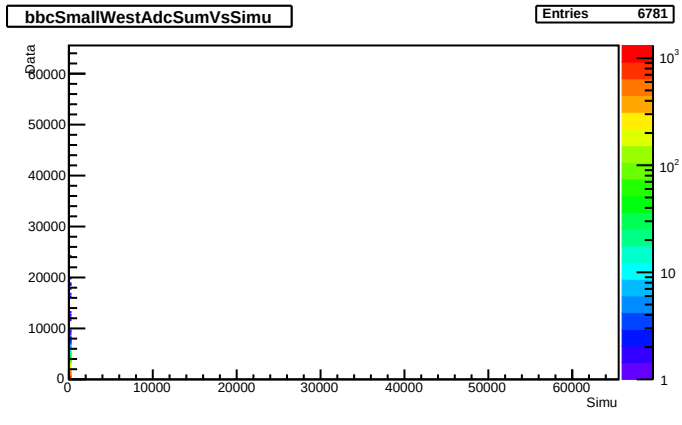

bbcSmallEastAdcSum
Entries 9853

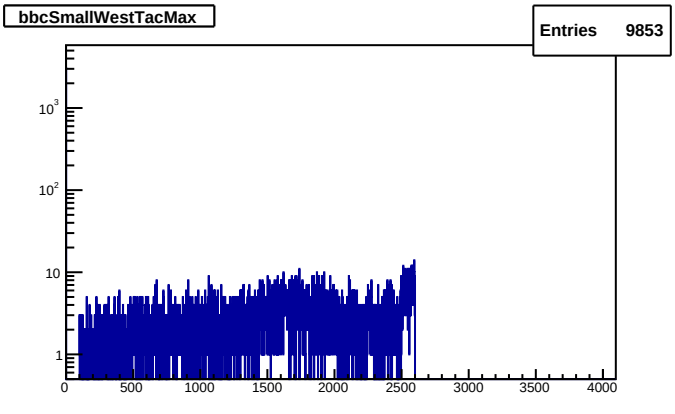

bbcSmallEastAdcSumVsSimu
Entries 6971
Data
Simu

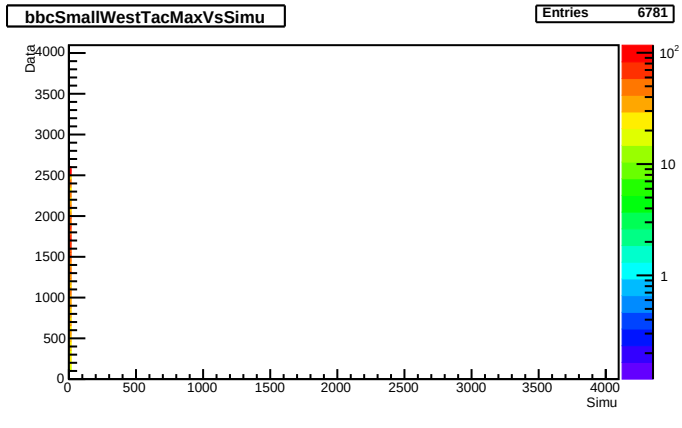

bbcSmallEastTacMax
Entries 9853

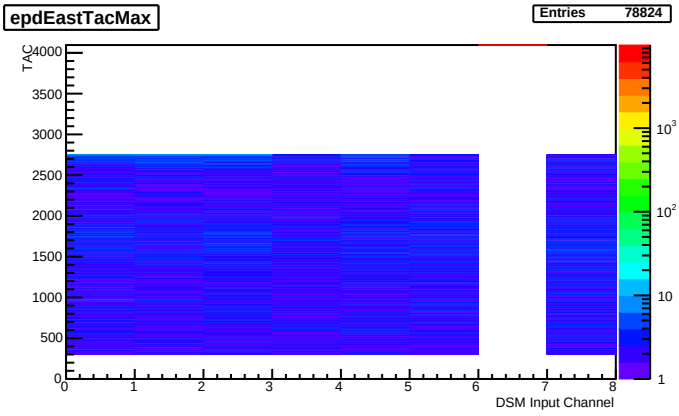

bbcSmallEastTacMaxVsSimu
Entries 6971
Data
Simu

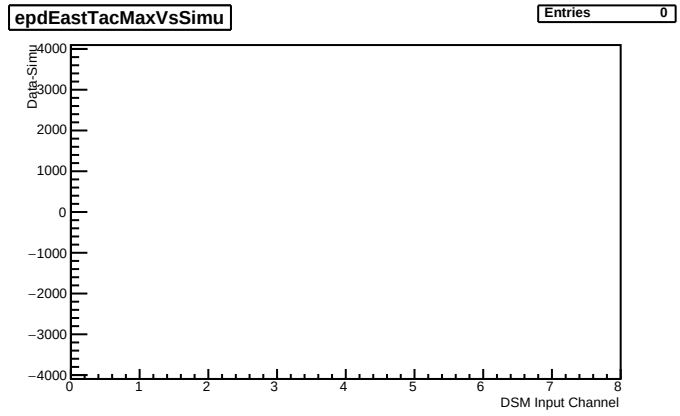

bbcSmallWestAdcSum
Entries 9853

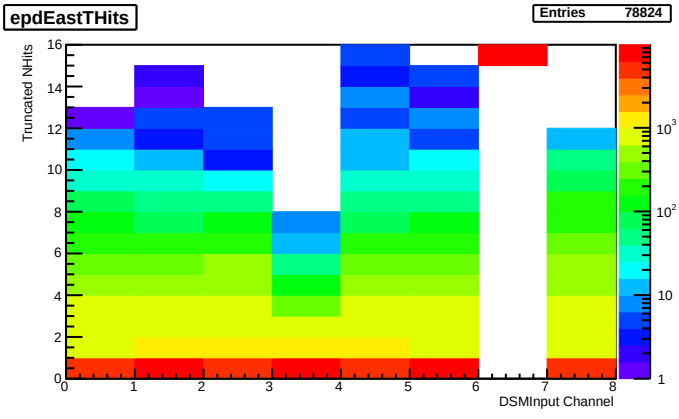

bbcSmallWestAdcSumVsSimu
Entries 6781
Data
Simu

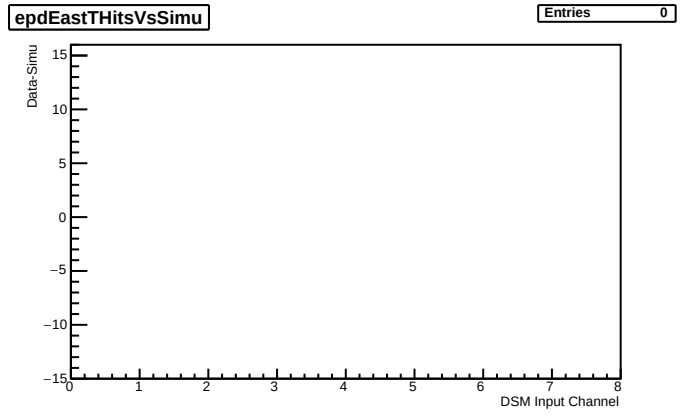

bbcSmallWestTacMax
Entries 9853


bbcSmallWestTacMaxVsSimu
Entries 6781
Data
Simu


epdEastTacMax
Entries 78824
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 78824
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
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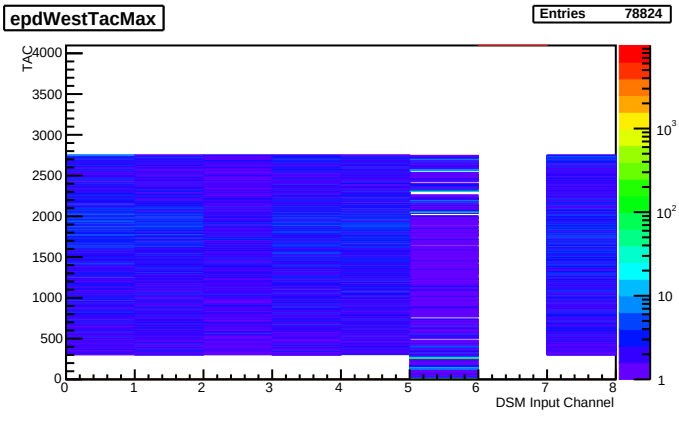
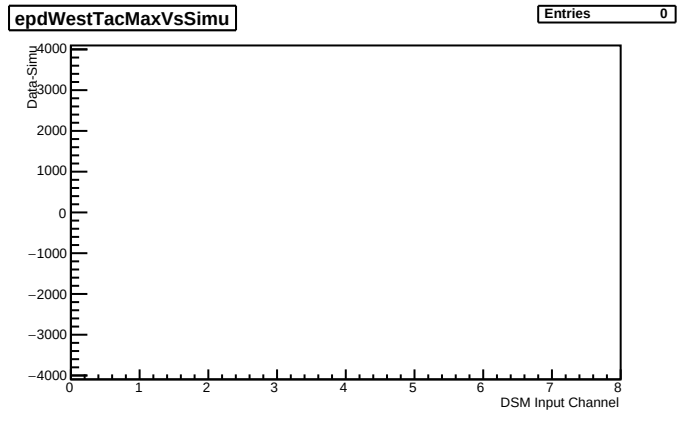
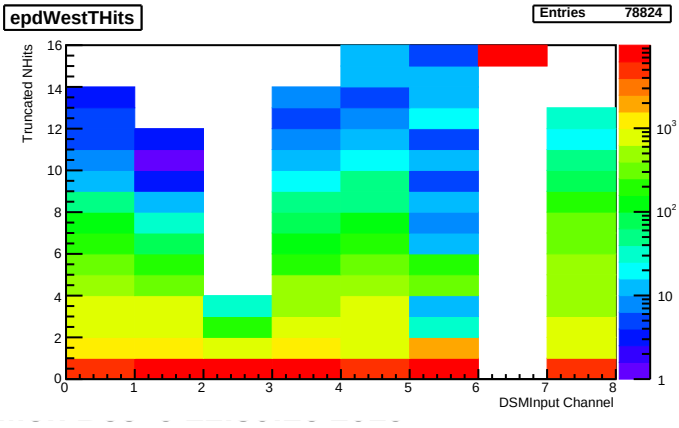
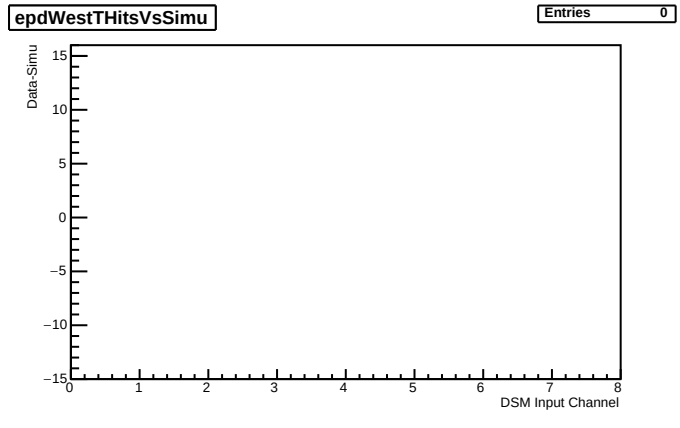
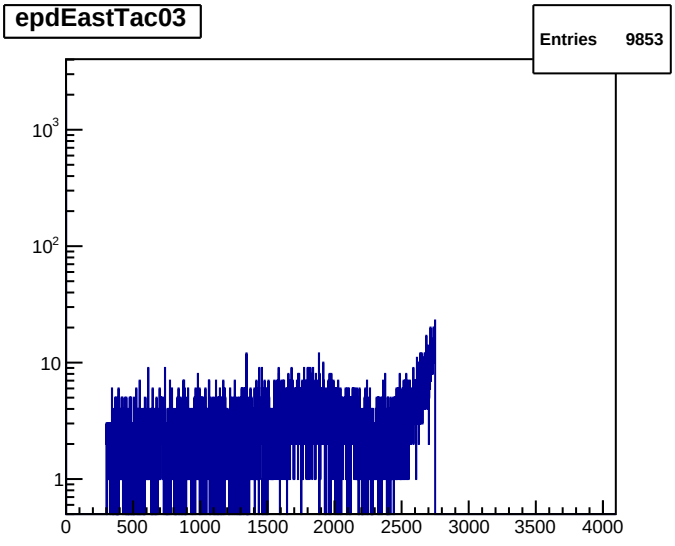
Data-Simu
DSM Input Channel

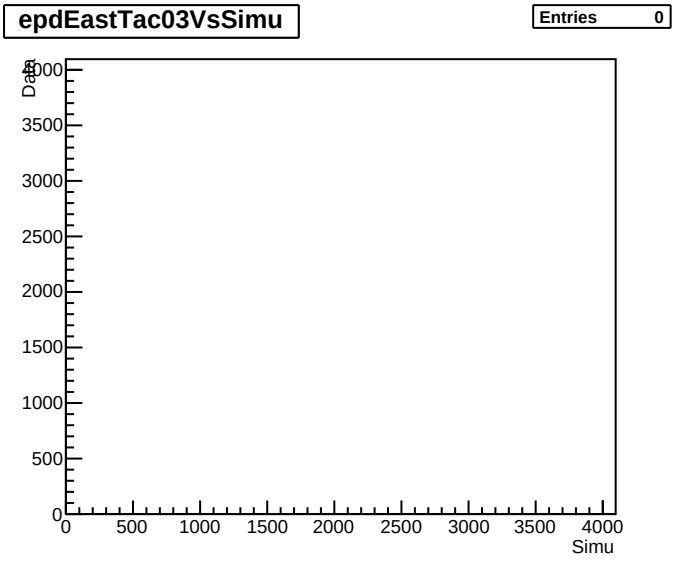

epdWestTacMax
Entries 78824
TAC
DSM Input Channel

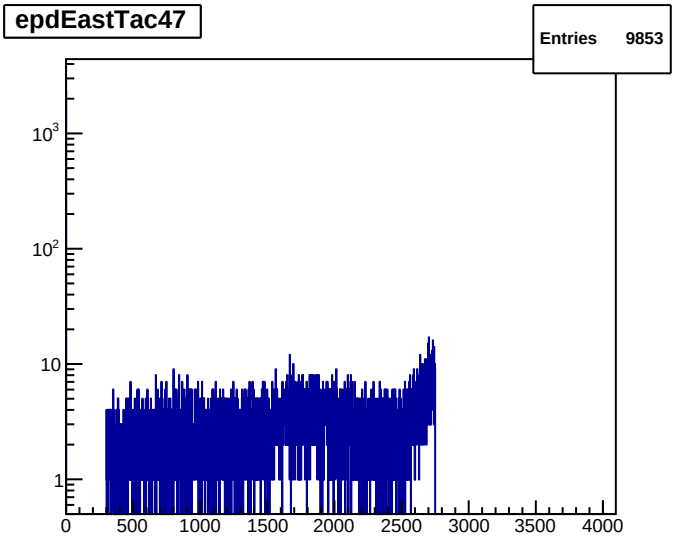

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

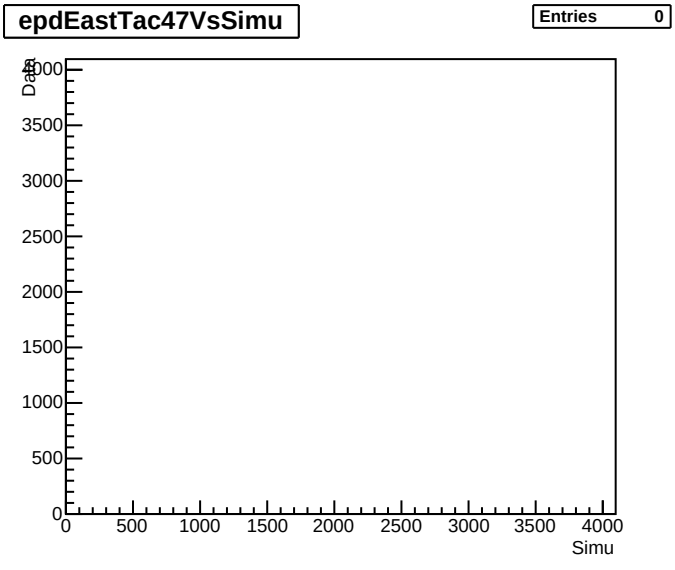

epdWestTHits
Entries 78824
Truncated NHits
DSMInput Channel

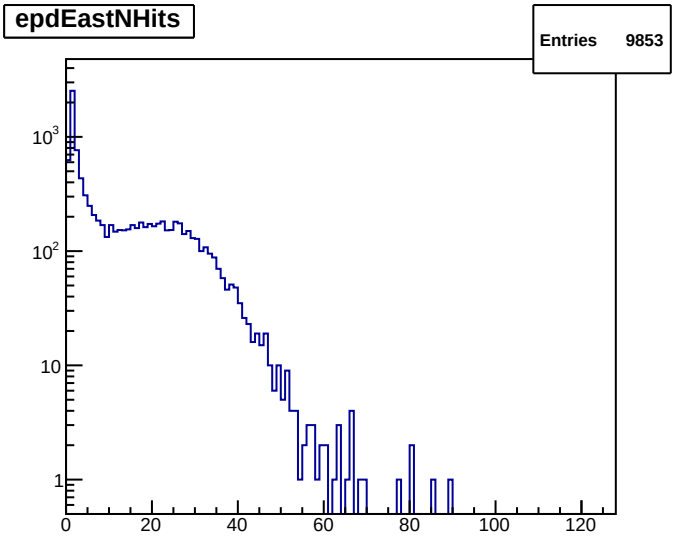

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

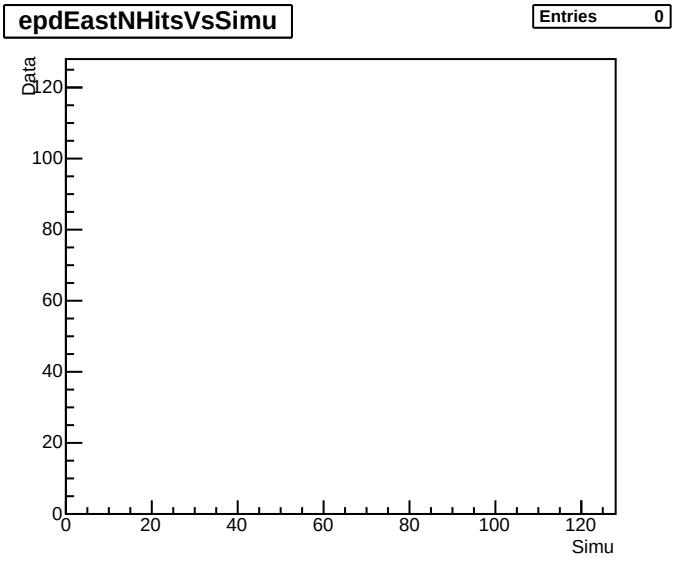

epdEastTac03
Entries 9853

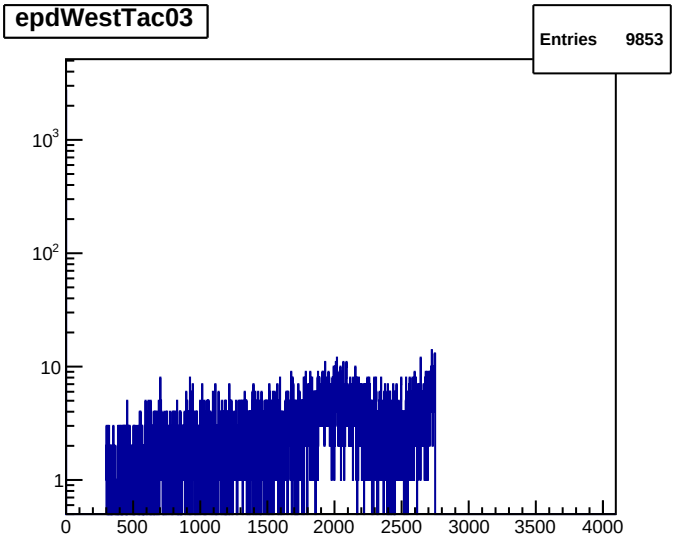

epdEastTac03VsSimu
Entries 0
Data
Simu

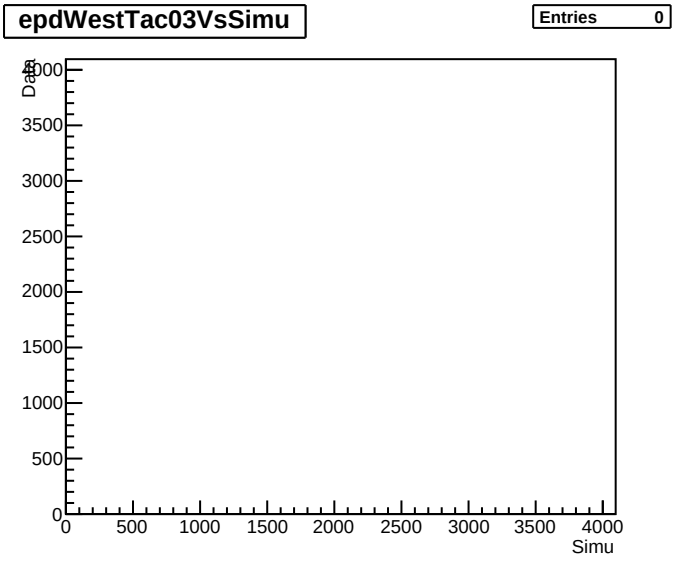

epdEastTac47
Entries 9853

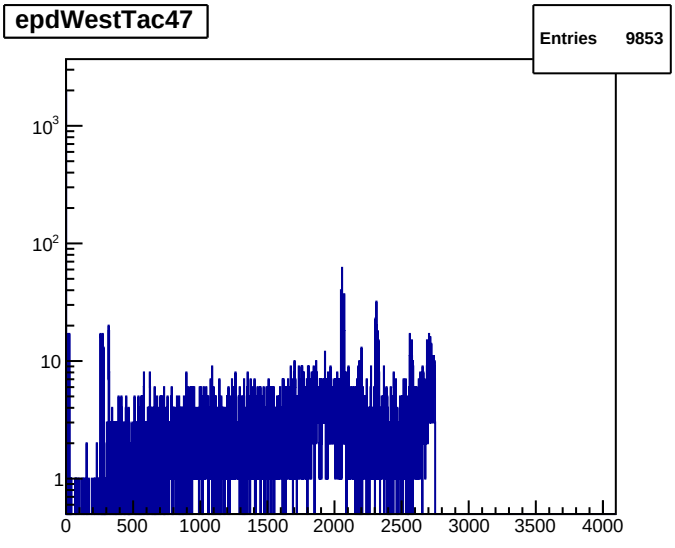

epdEastTac47VsSimu
Entries 0
Data
Simu

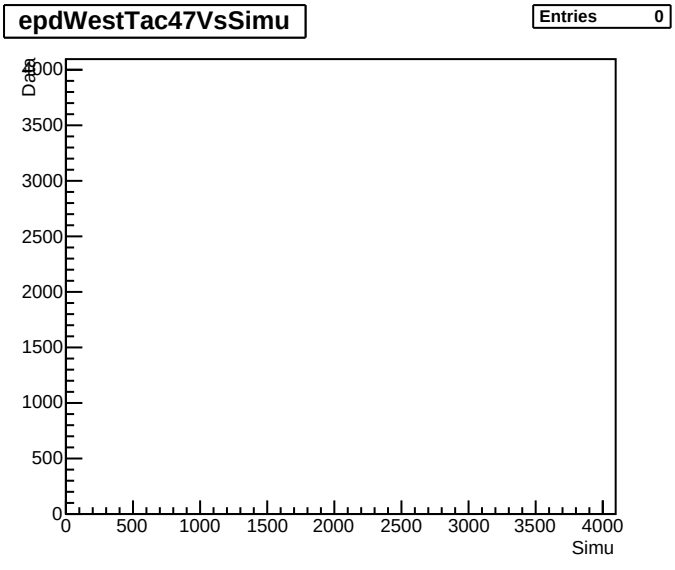

epdEastNHits
Entries 9853

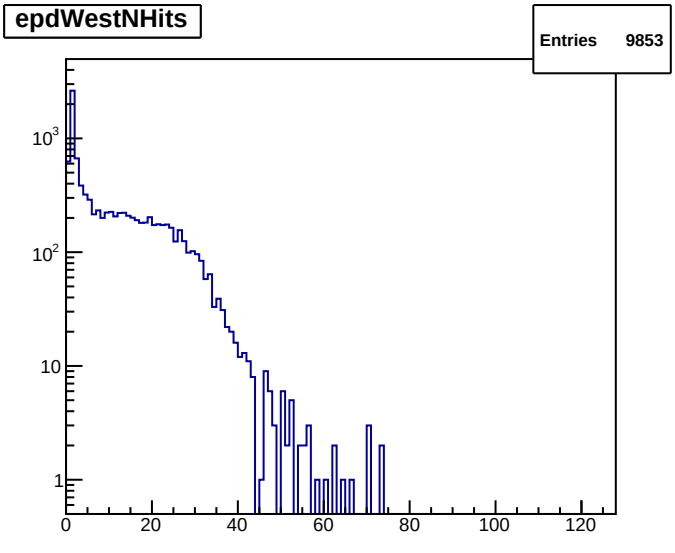

epdEastNHitsVsSimu
Entries 0
Data
Simu

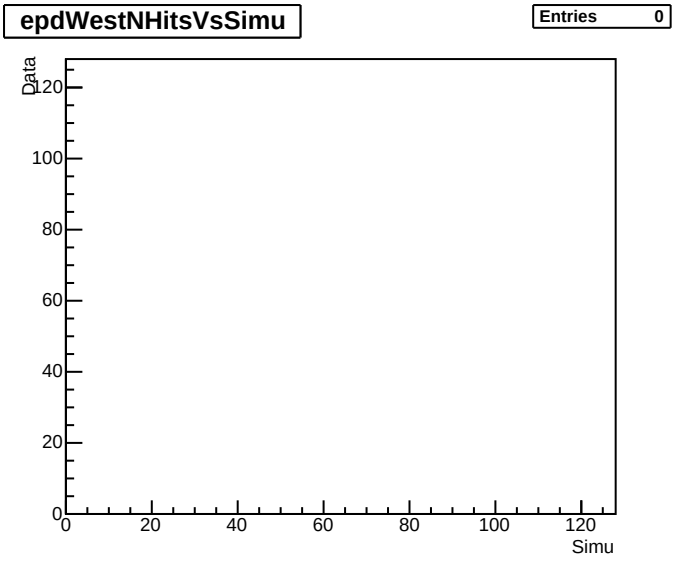

epdWestTac03
Entries 9853
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

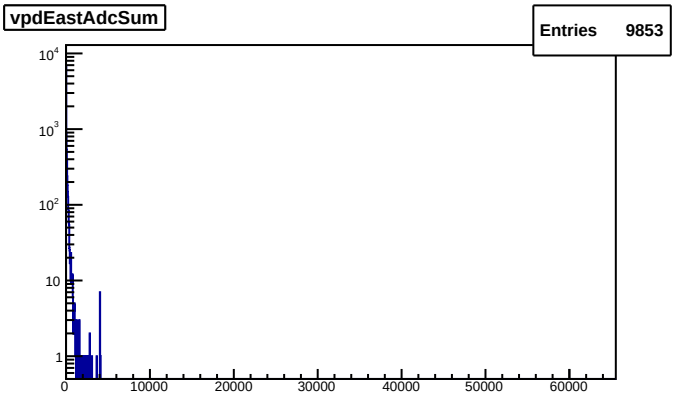

epdWestTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

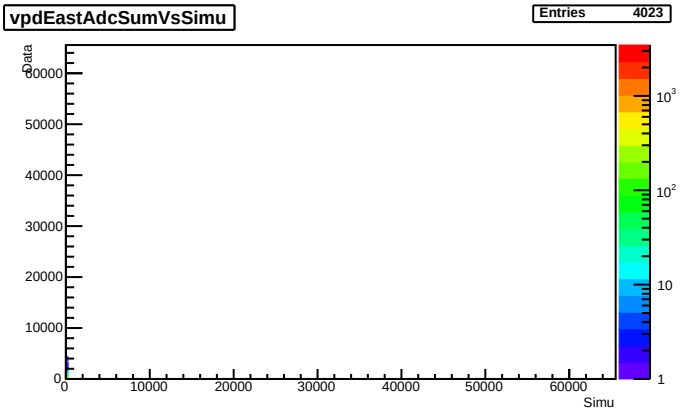

epdWestTac47
Entries 9853
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

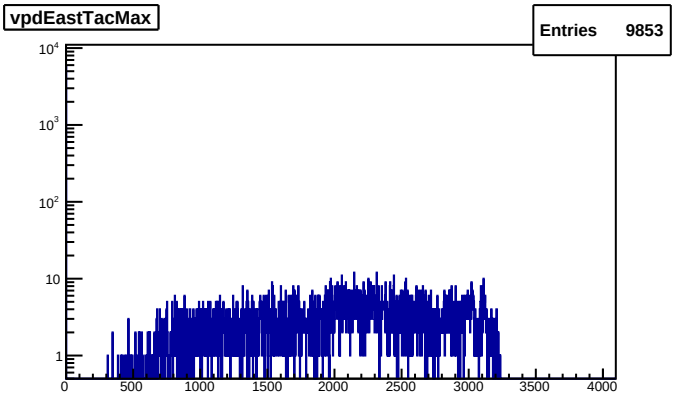

epdWestTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

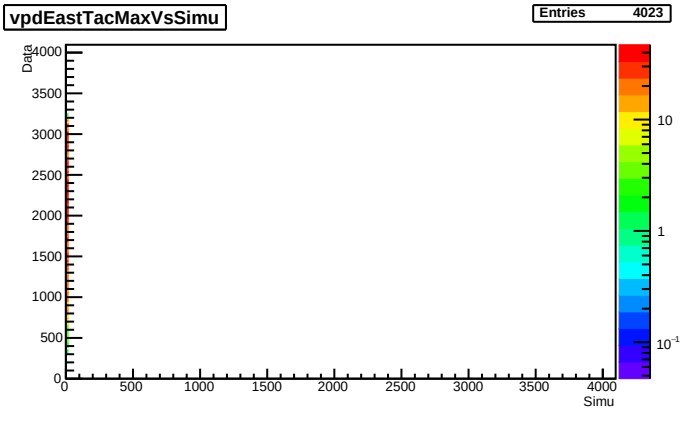

epdWestNHits
Entries 9853
10^3
10^2
10
1
0 20 40 60 80 100 120

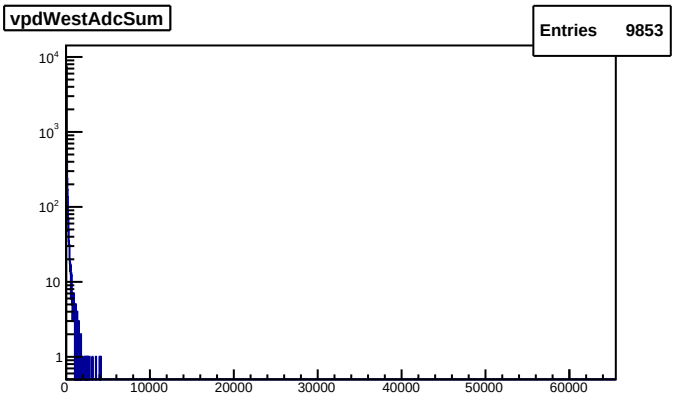

epdWestNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

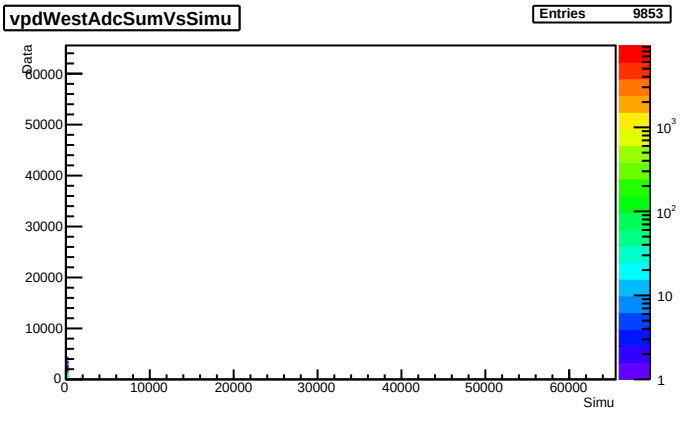

vpdEastAdcSum
Entries 9853

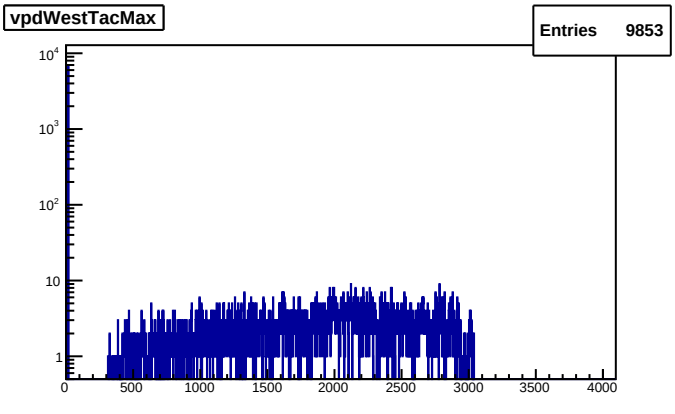

vpdEastAdcSumVsSimu
Entries 4023
Data
Simu

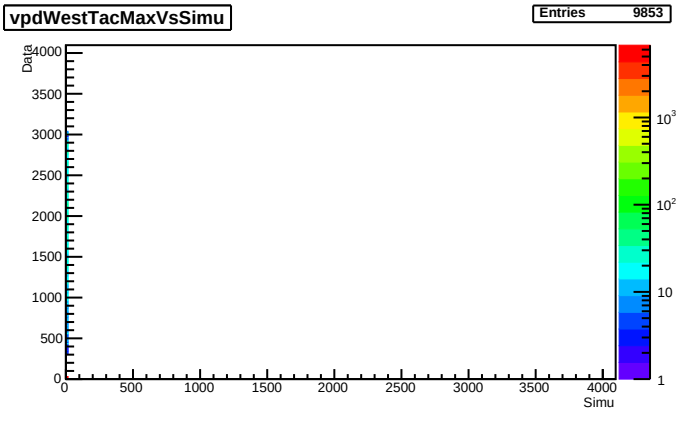

vpdEastTacMax
Entries 9853

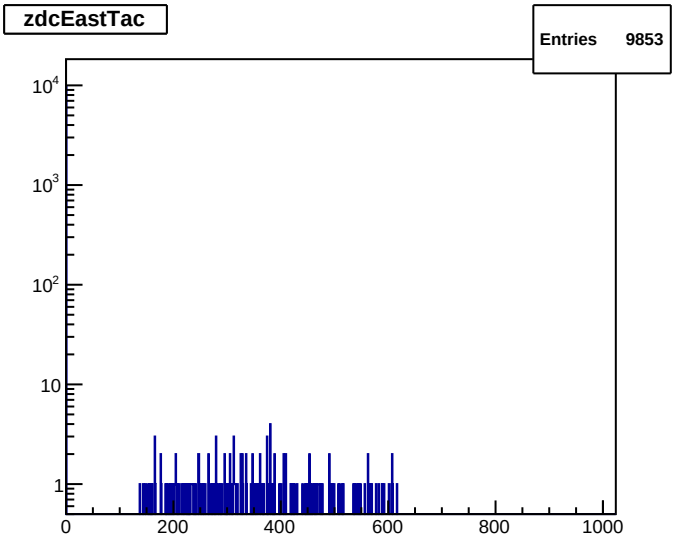

vpdEastTacMaxVsSimu
Entries 4023
Data
Simu

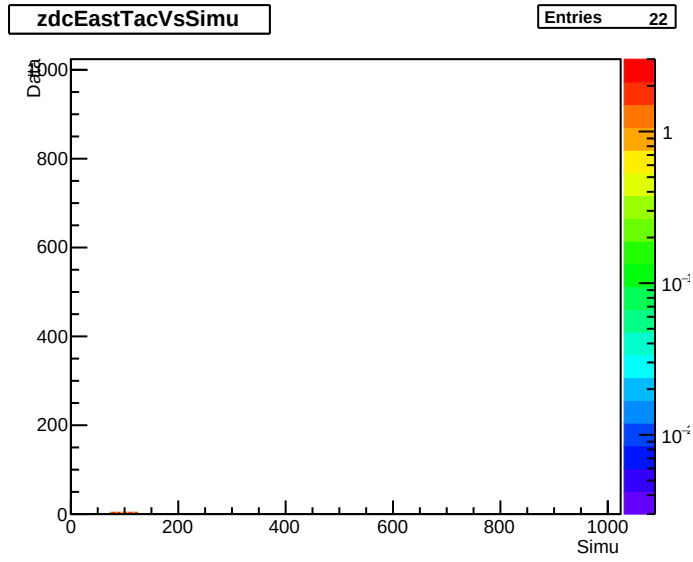

vpdWestAdcSum
Entries 9853

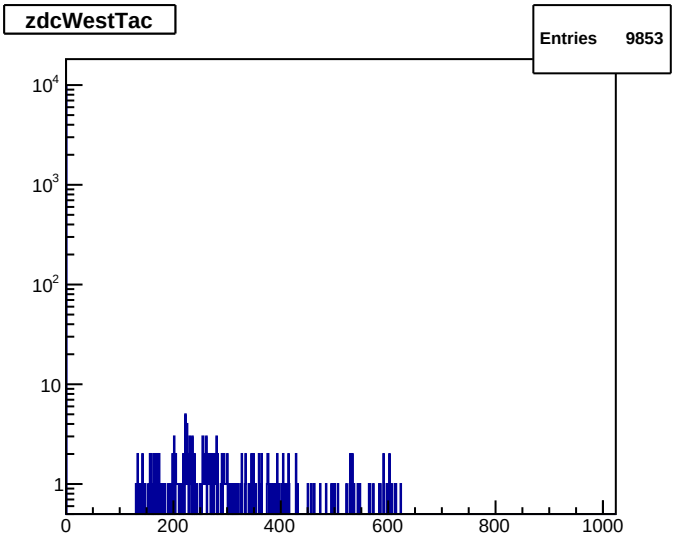

vpdWestAdcSumVsSimu
Entries 9853
Data
Simu

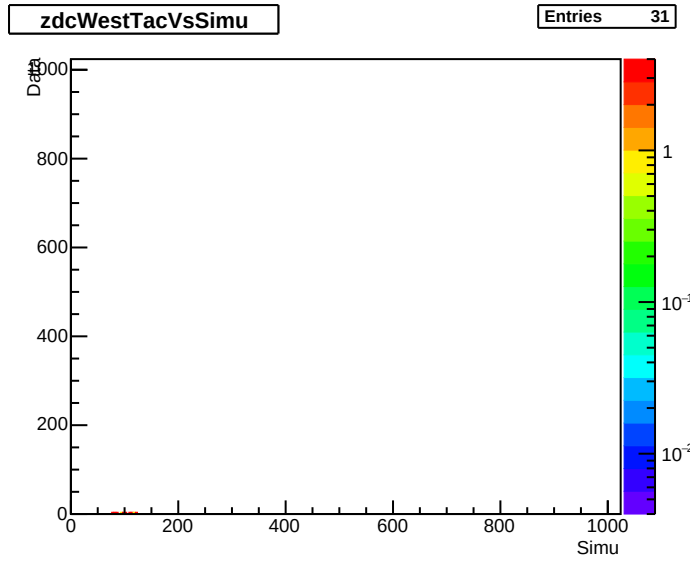

vpdWestTacMax
Entries 9853

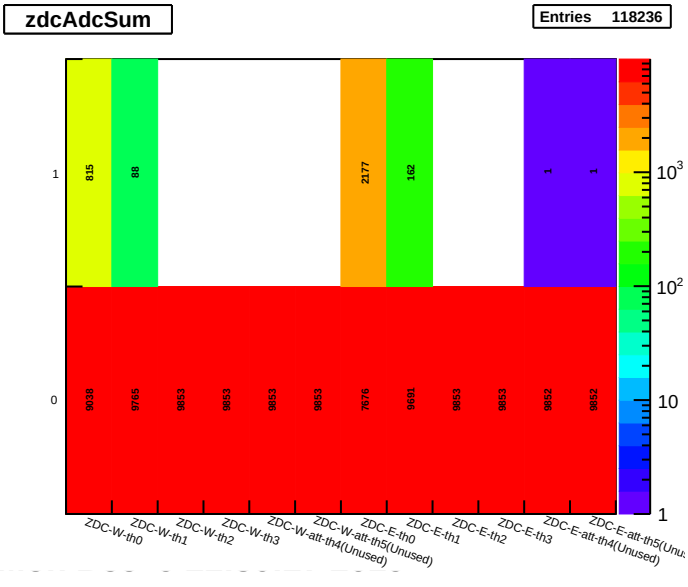

vpdWestTacMaxVsSimu
Entries 9853
Data
Simu

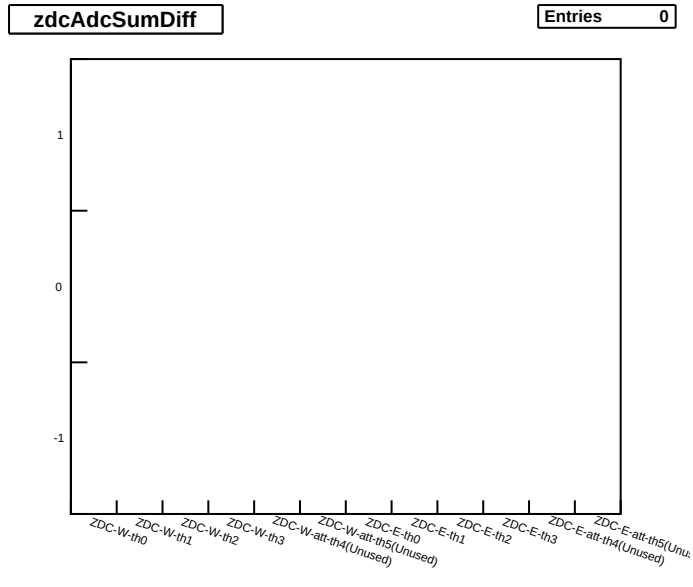

zdcEastTac
Entries 9853

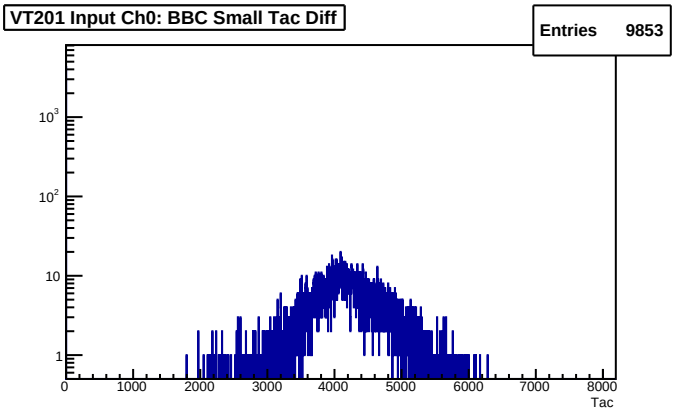

zdcEastTacVsSimu
Entries 22
Data
Simu

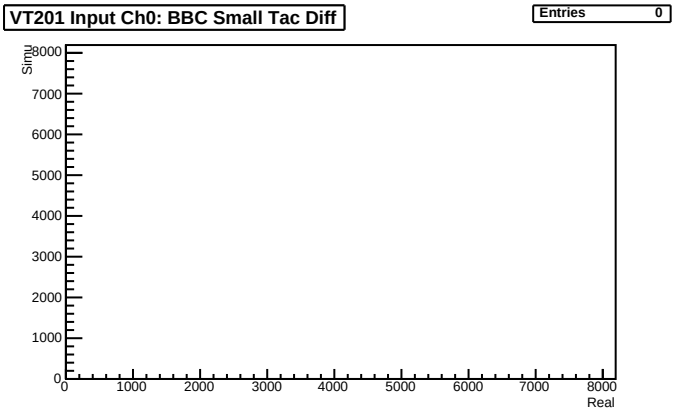

zdcWestTac
Entries 9853

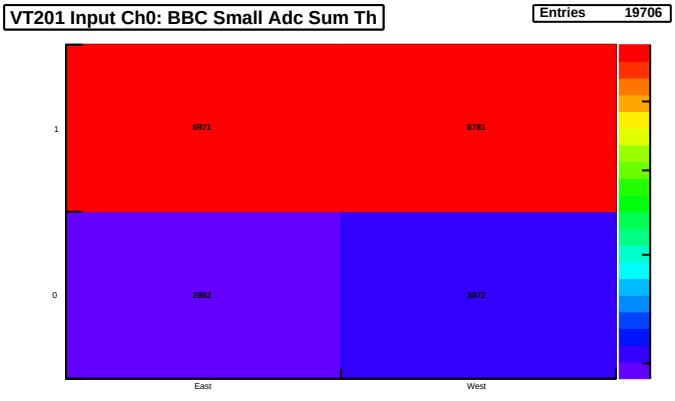

zdcWestTacVsSimu
Entries 31
Data
Simu

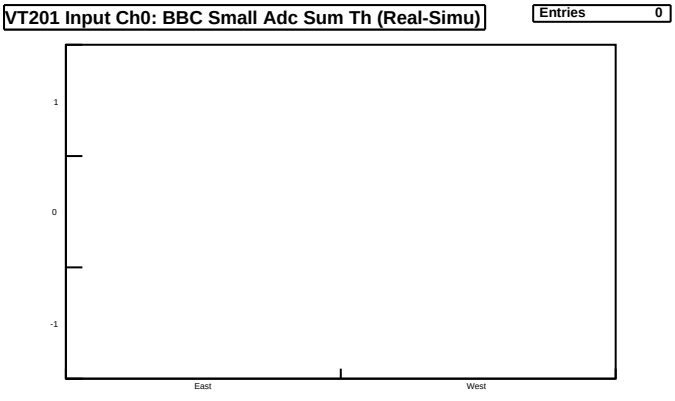

zdcAdcSum
Entries 118236
815
88
2177
162
1
1
9038
9765
9853
9853
9853
9853
7676
9691
9853
9853
9852
9852
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

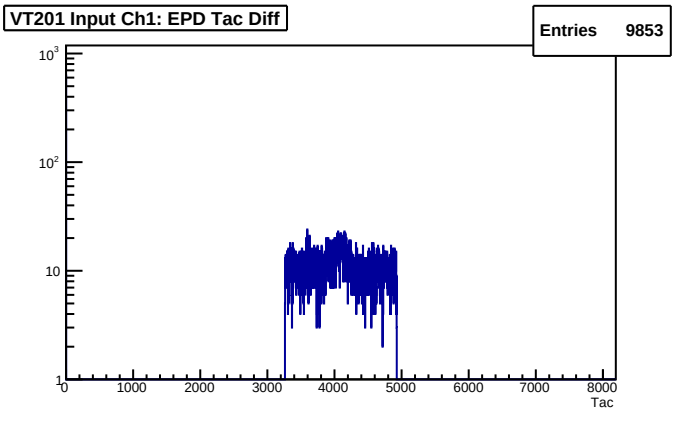

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

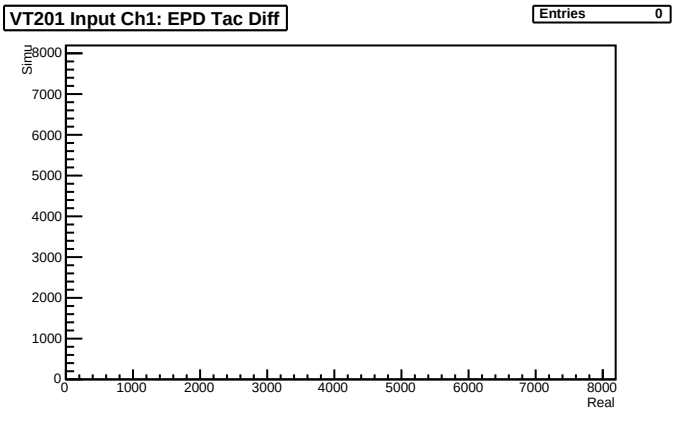

VT201 Input Ch0: BBC Small Tac Diff
Entries 9853
Tac

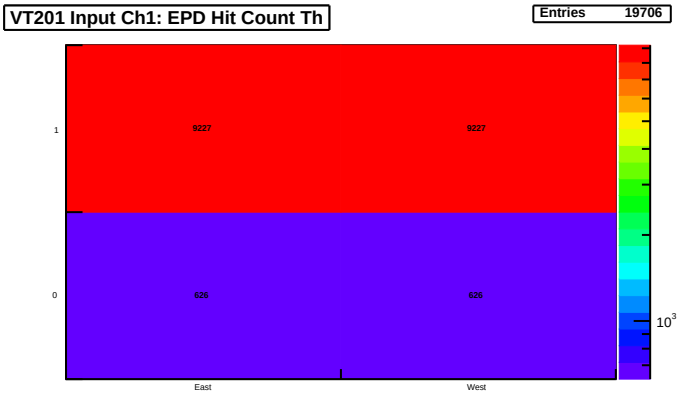

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

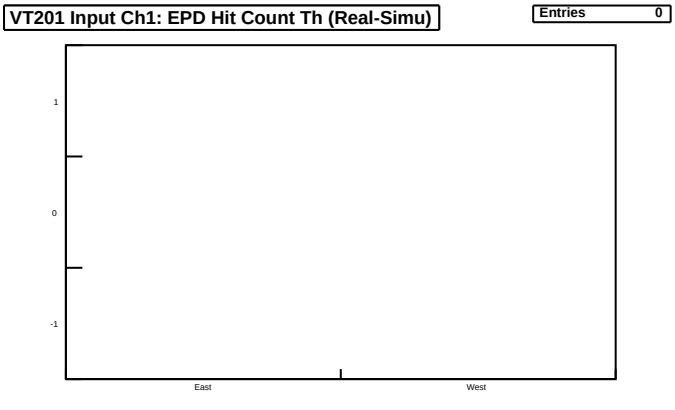

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 19706
6971
6781
2882
3072
East
West

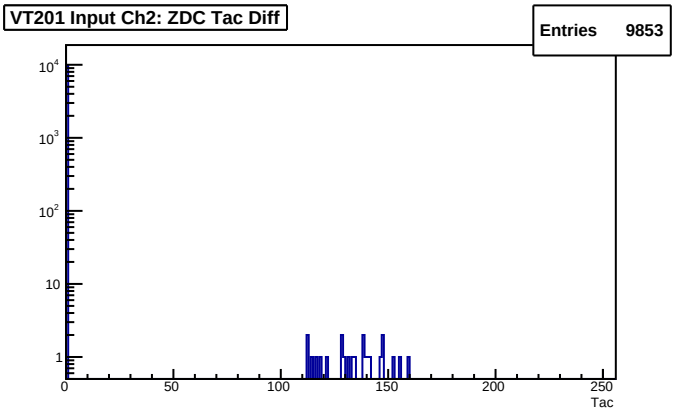

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

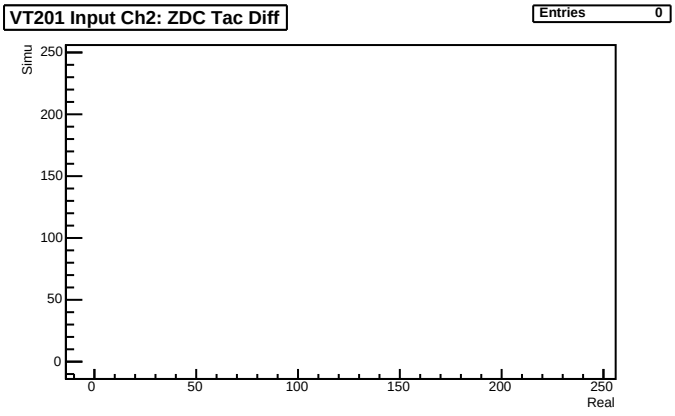

VT201 Input Ch1: EPD Tac Diff
Entries 9853
Tac

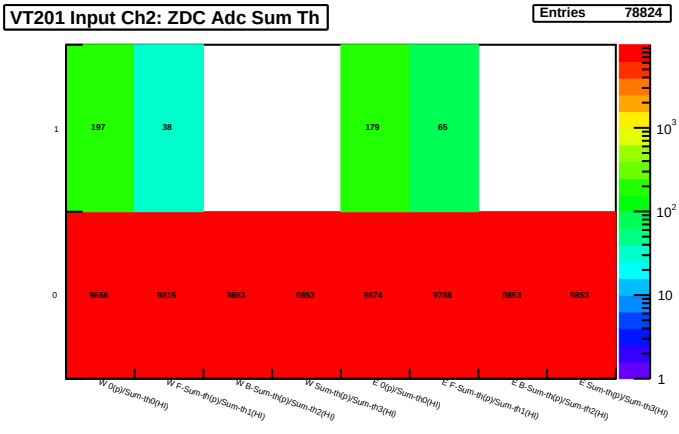

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

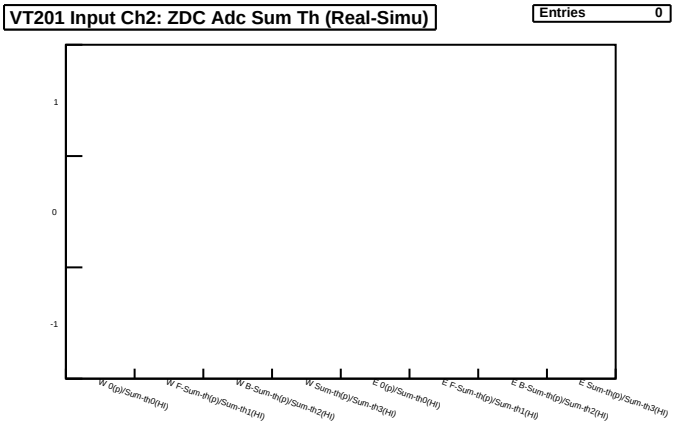

VT201 Input Ch1: EPD Hit Count Th
Entries 19706
9227
9227
626
626
East
West

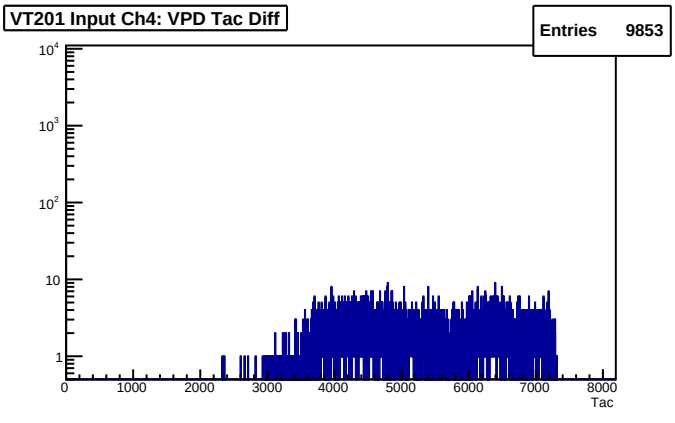

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

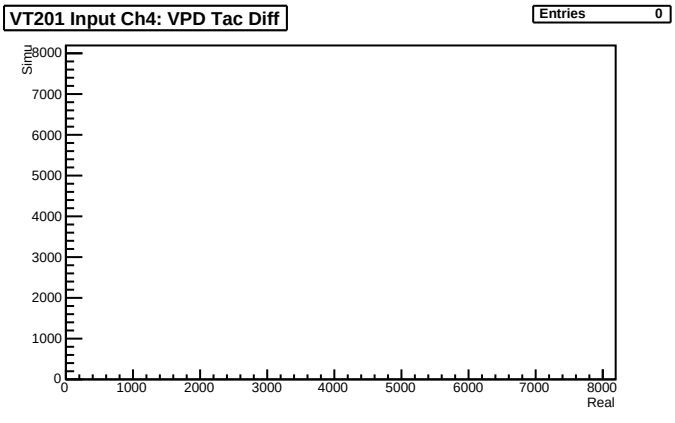

VT201 Input Ch2: ZDC Tac Diff
Entries 9853
Tac

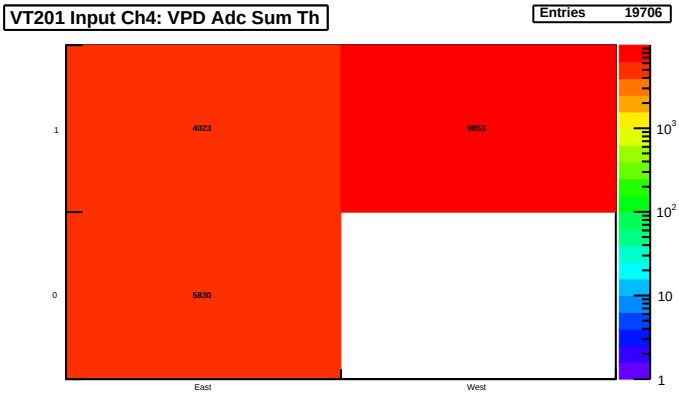

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

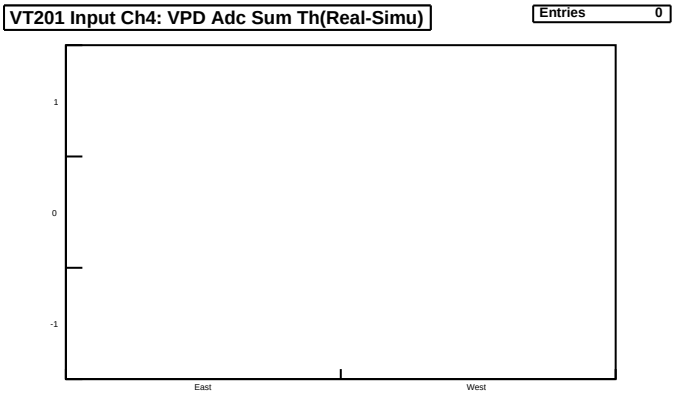

VT201 Input Ch2: ZDC Adc Sum Th
Entries 78824
197
38
179
65
9656
9815
9853
9853
9674
9768
9853
9853
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

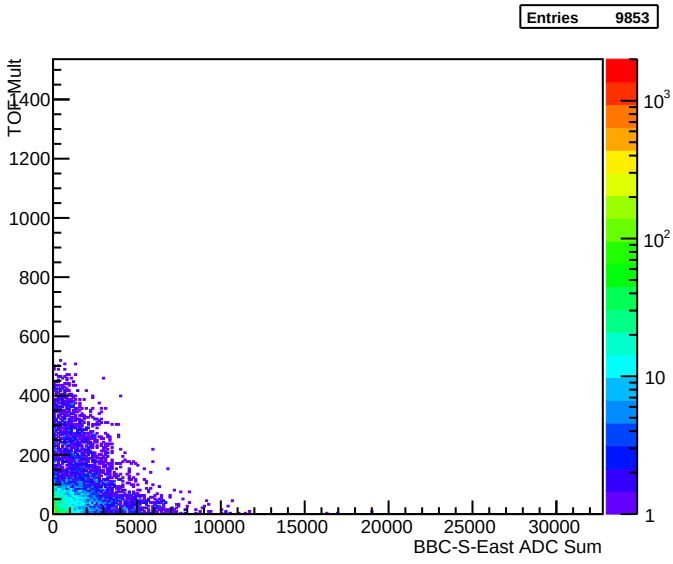

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

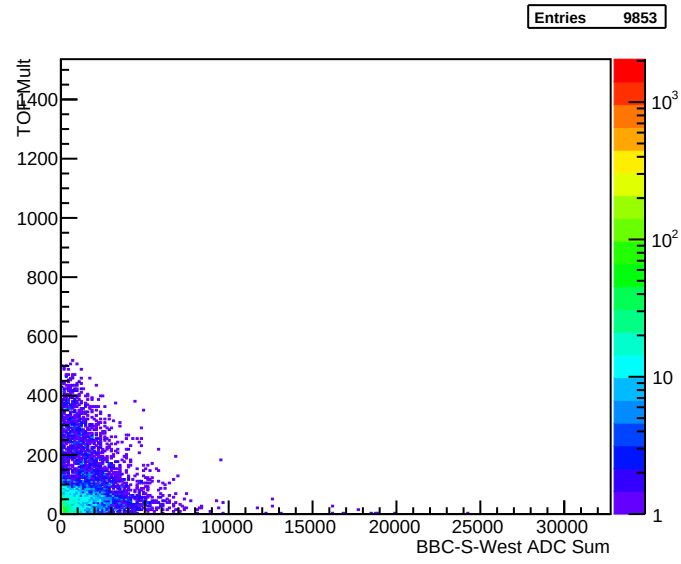

VT201 Input Ch4: VPD Tac Diff
Entries 9853
Tac

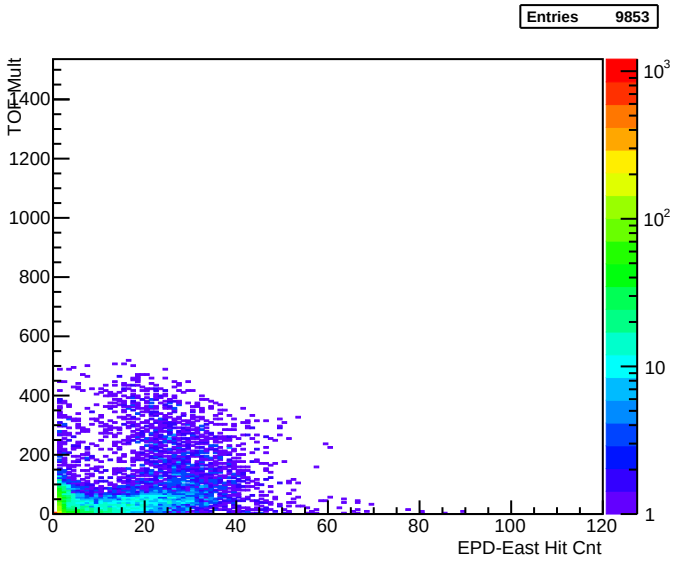

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

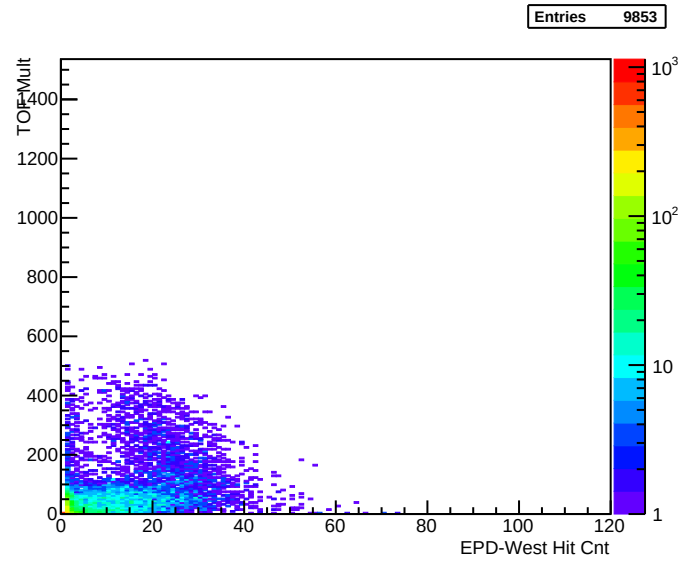

VT201 Input Ch4: VPD Adc Sum Th
Entries 19706
4023
9853
5830
East
West

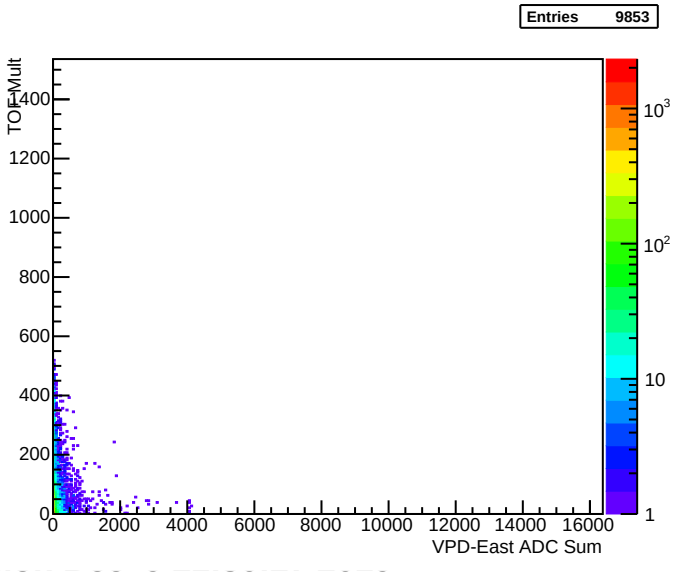

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

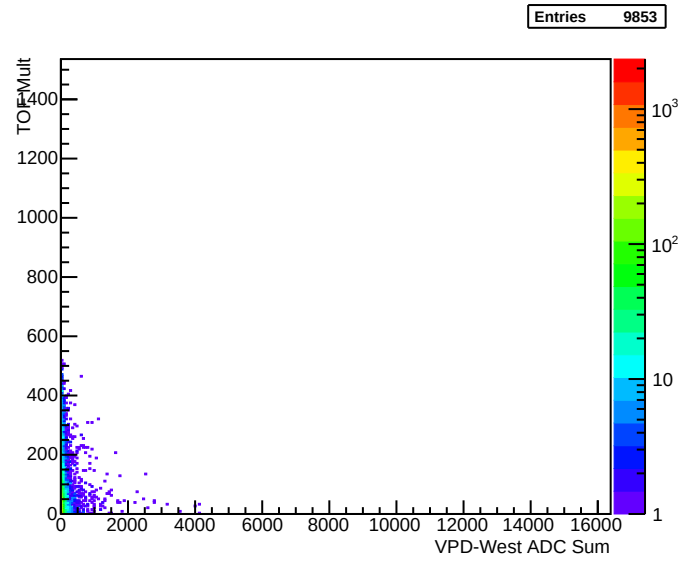

Entries 9853
TOF-Mult
BBC-S-East ADC Sum

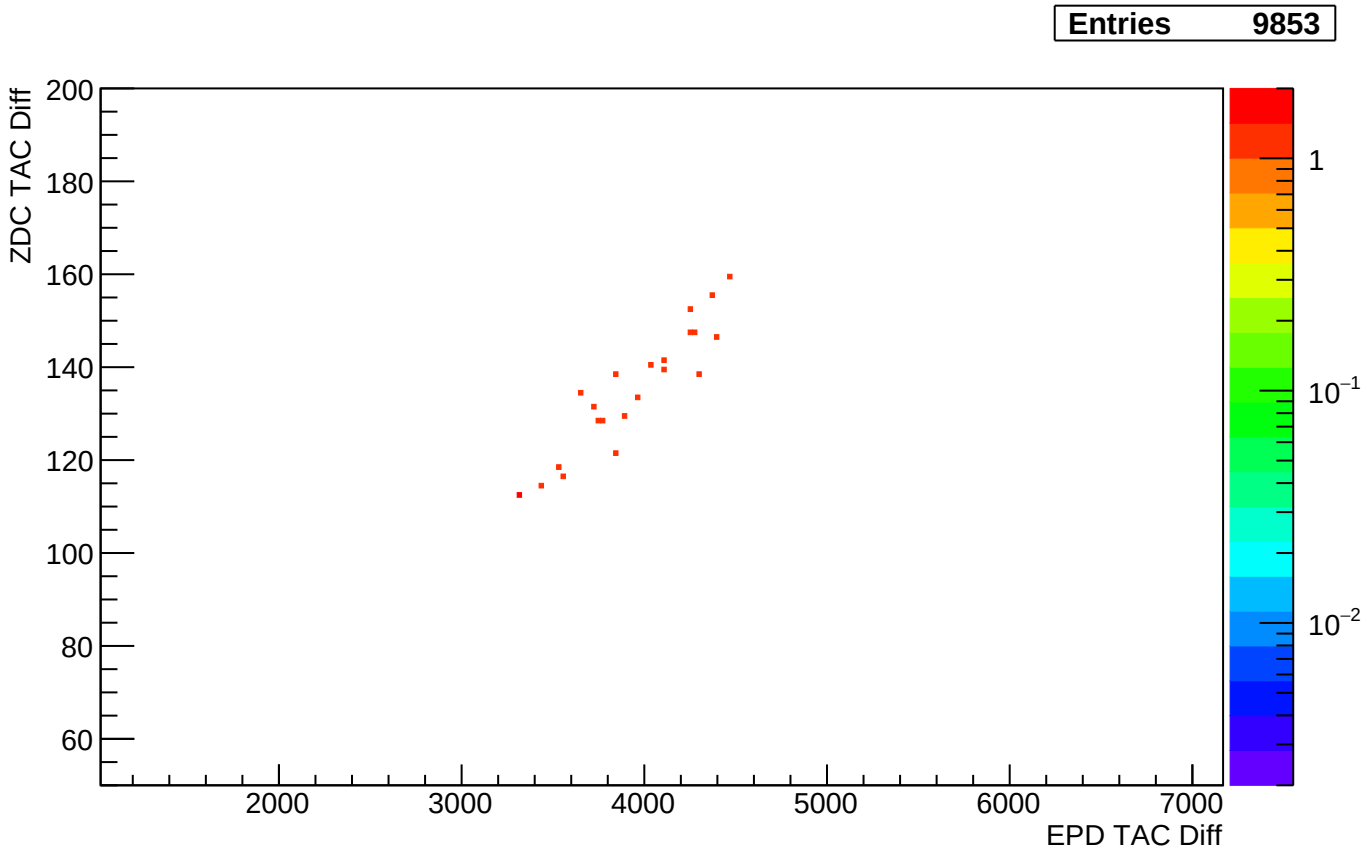

Entries 9853
TOF-Mult
BBC-S-West ADC Sum

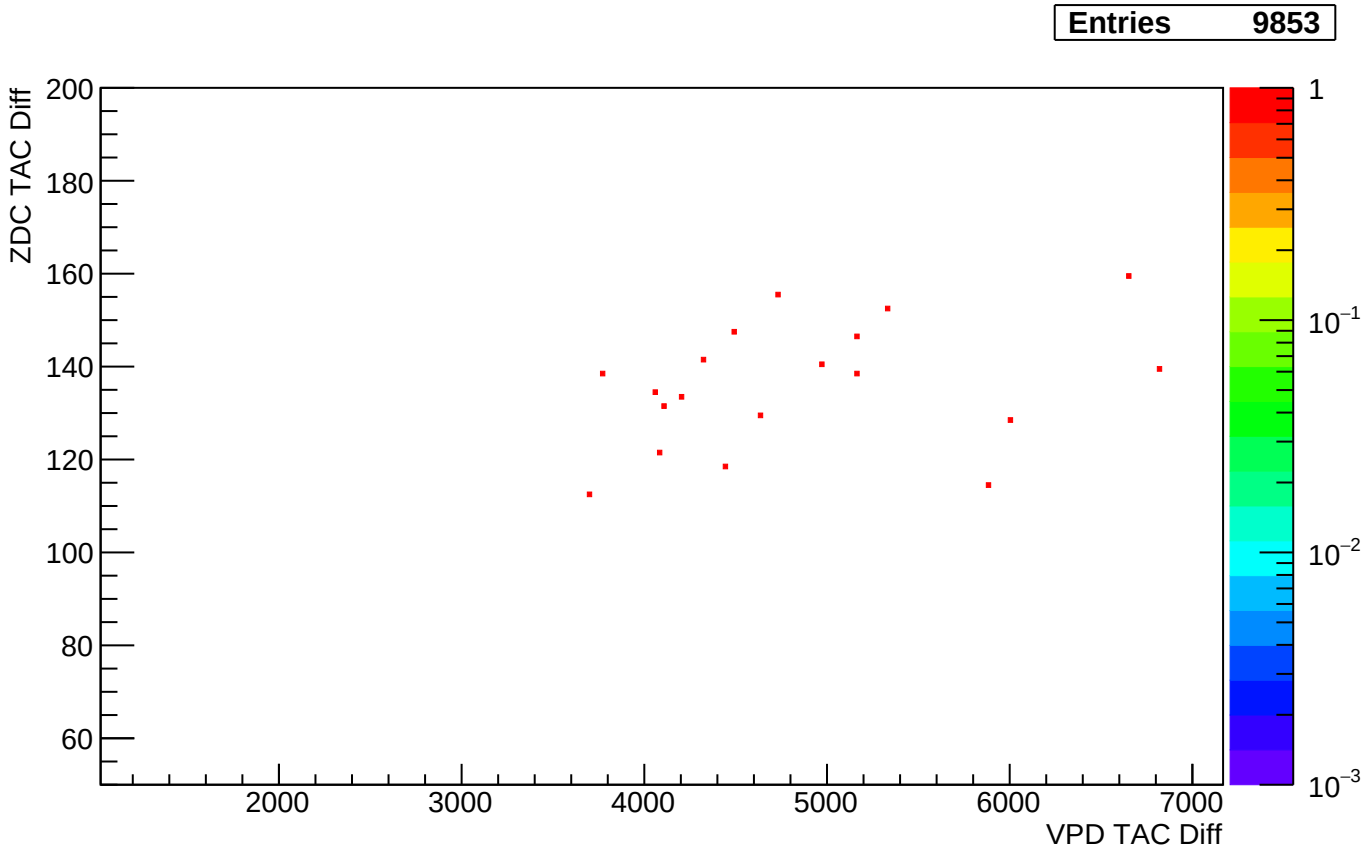

Entries 9853
TOF-Mult
EPD-East Hit Cnt

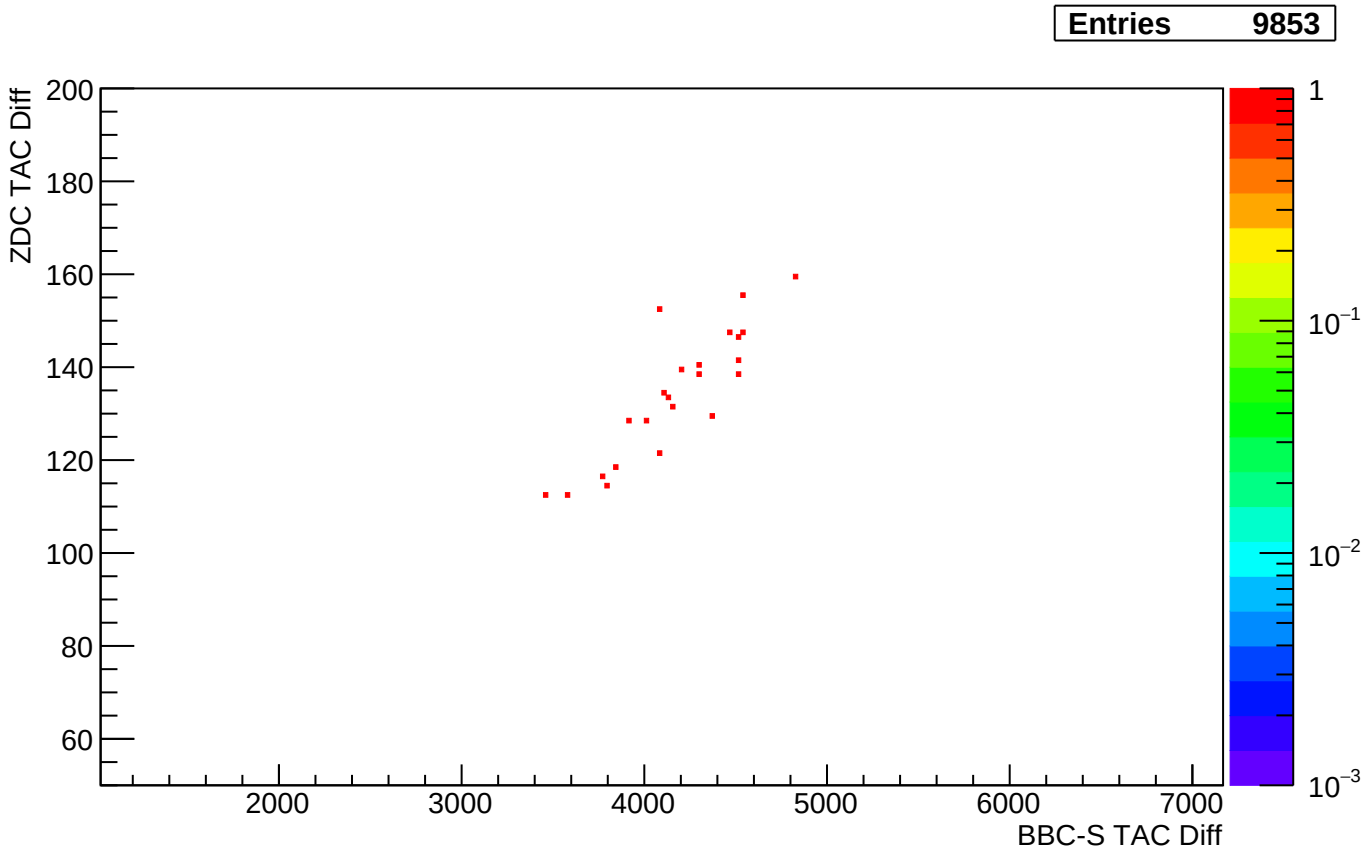

Entries 9853
TOF-Mult
EPD-West Hit Cnt

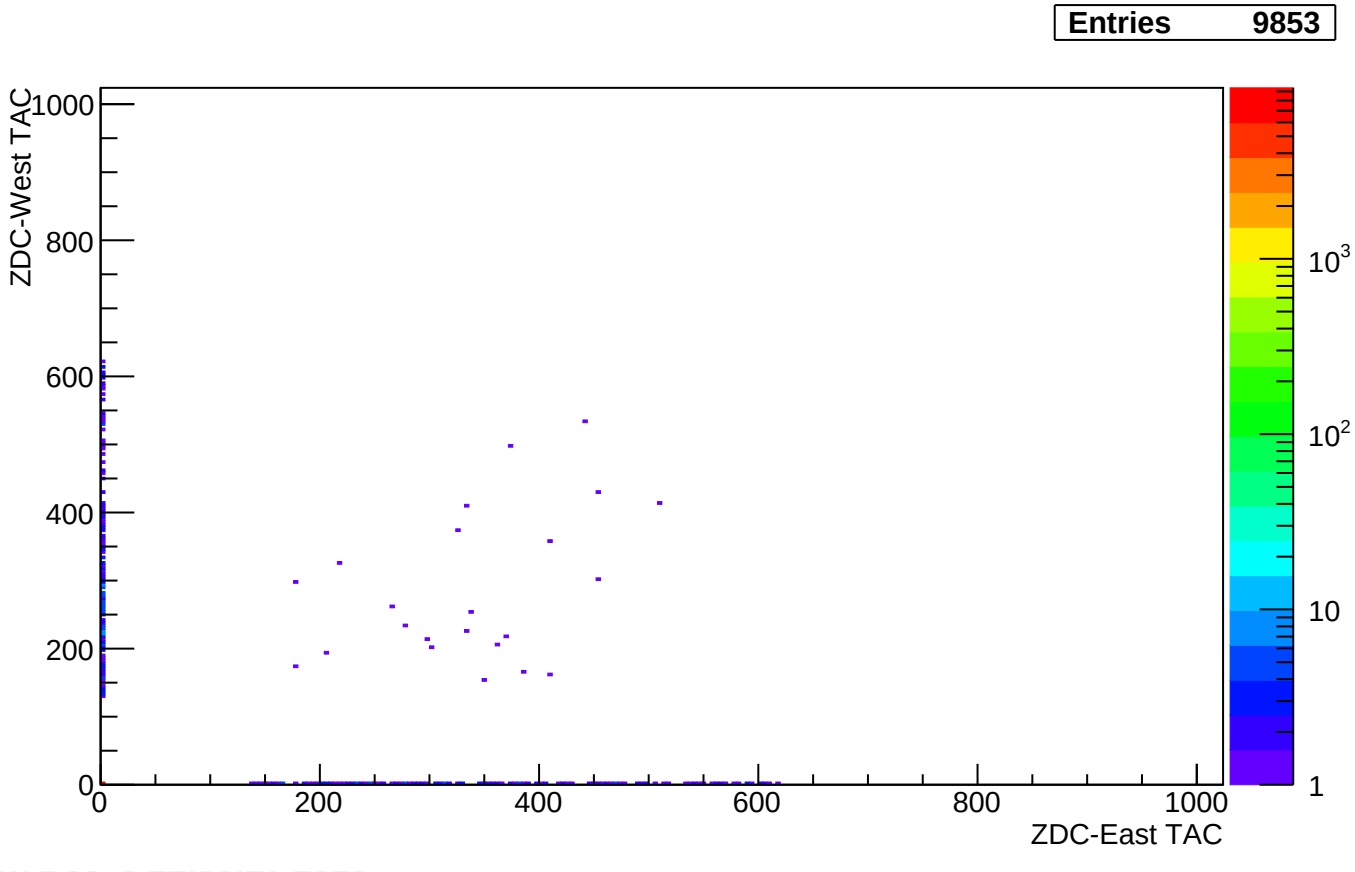

Entries 9853
TOF-Mult
VPD-East ADC Sum

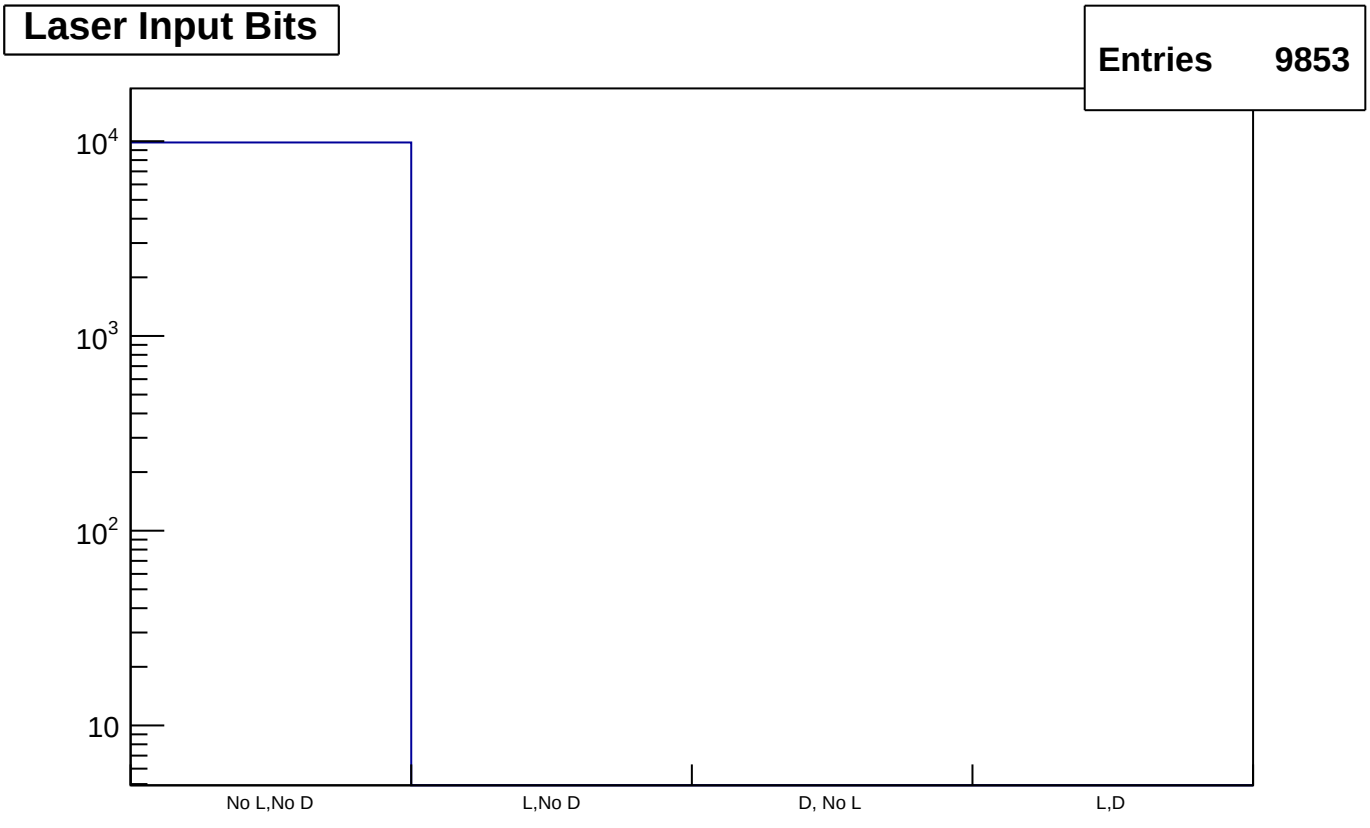

Entries 9853
TOF-Mult
VPD-West ADC Sum

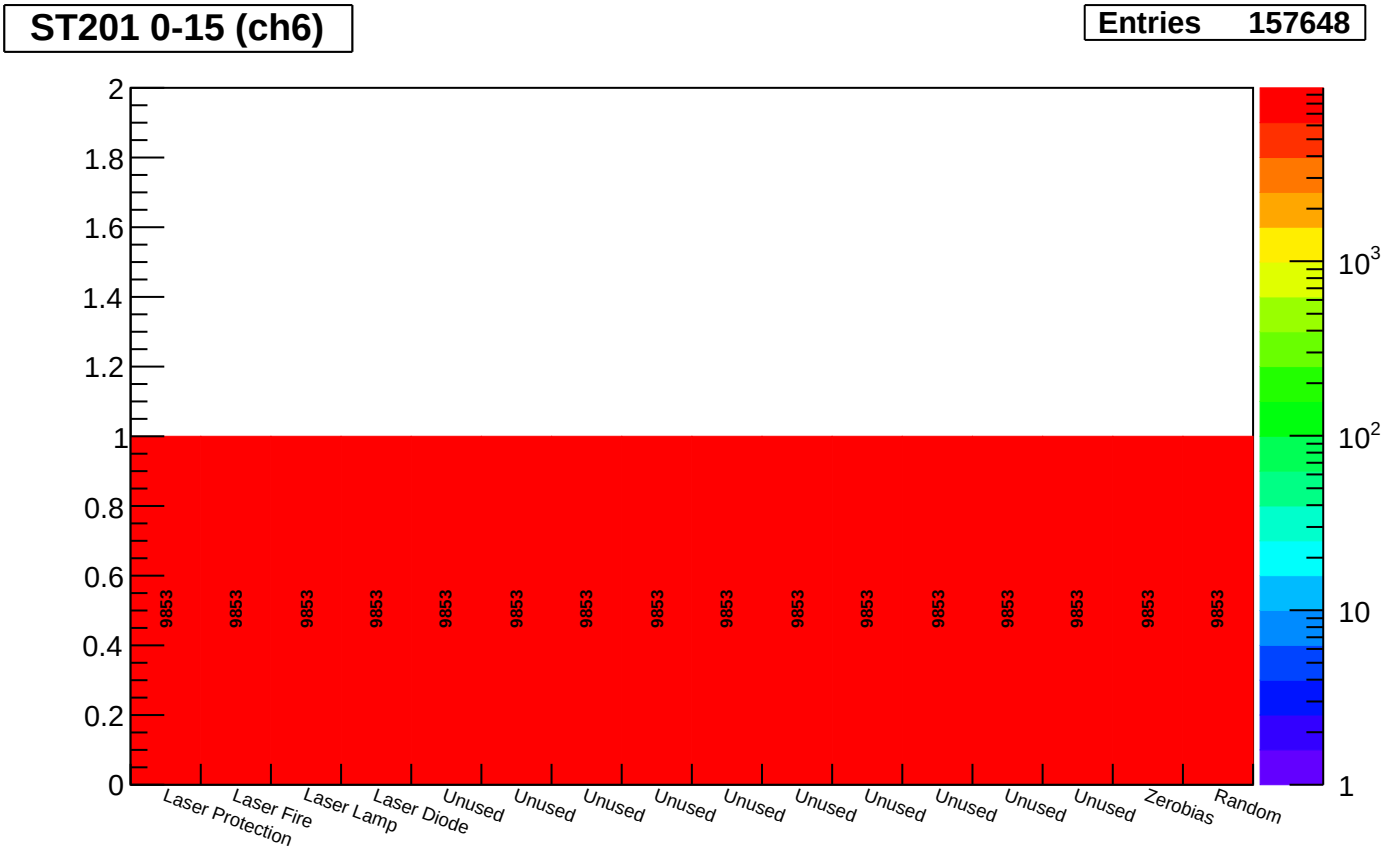

Entries 9853
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

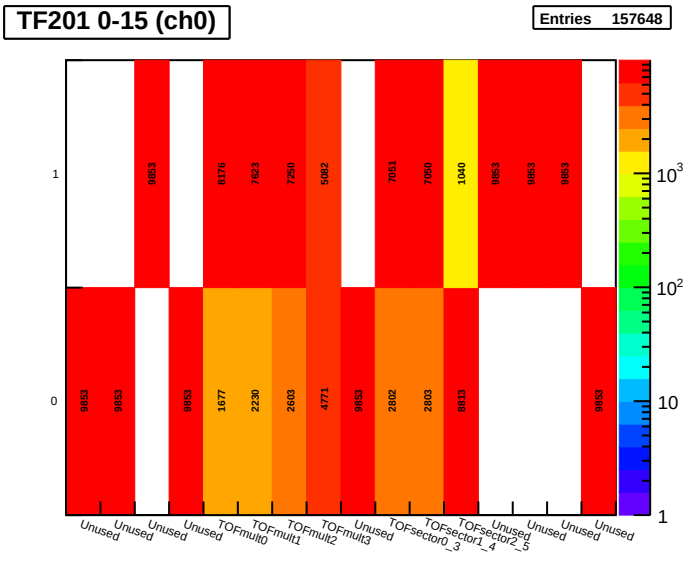

Entries 9853
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

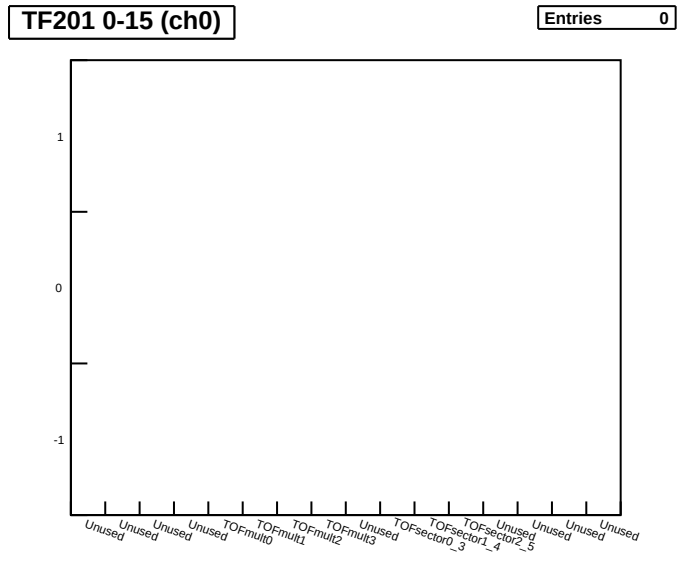

Entries 9853
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

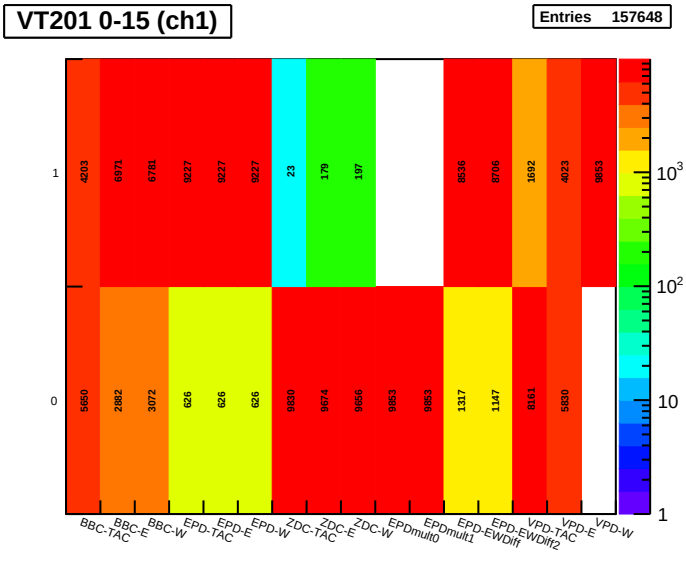

Entries 9853
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^3
10^2
10
1

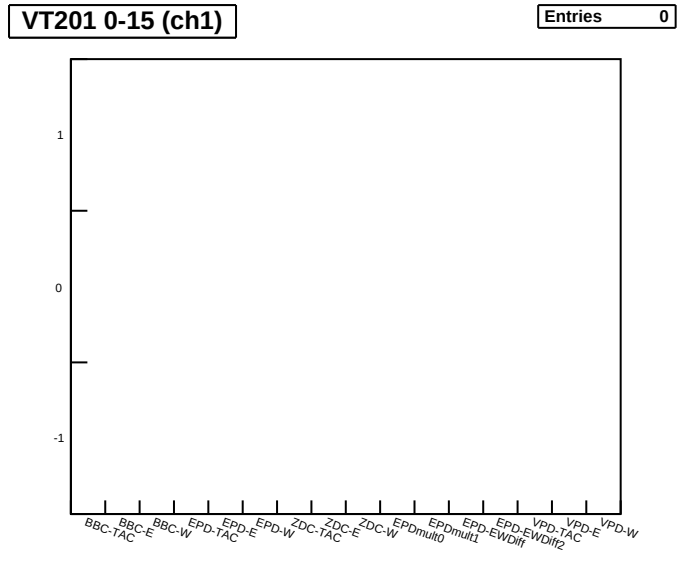

Laser Input Bits
Entries 9853
10^4
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

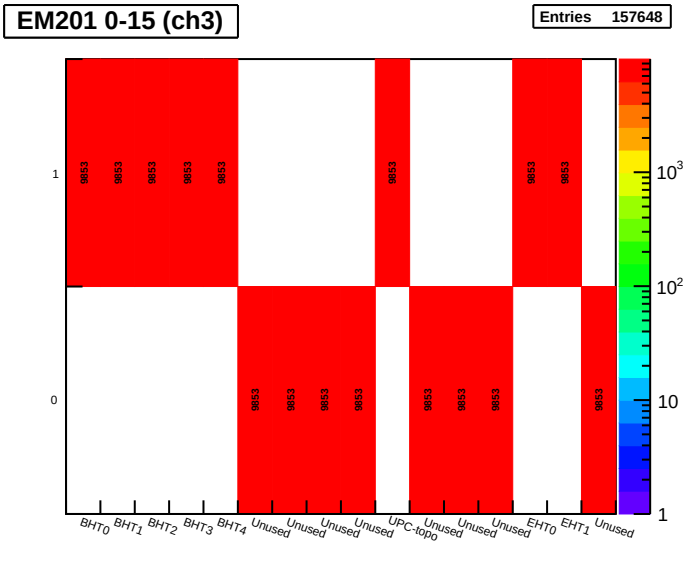

ST201 0-15 (ch6)
Entries 157648
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
9853
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^3
10^2
10
1

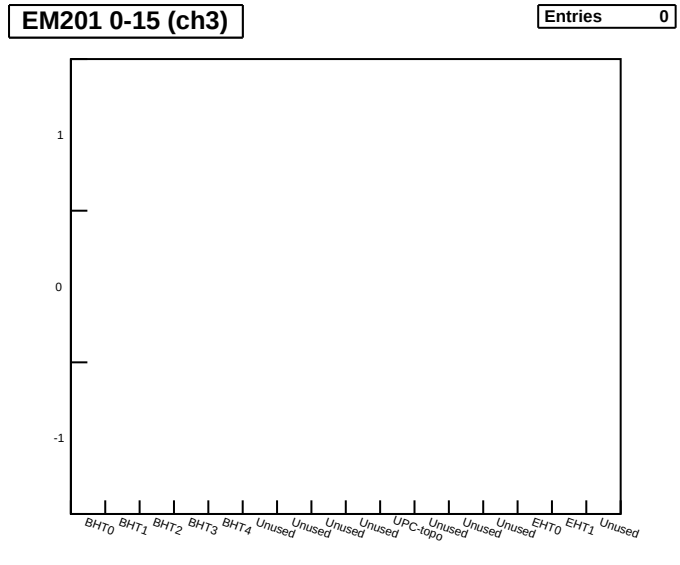

TF201 0-15 (ch0)
Entries 157648
1
0
9853 8176 7623 7250 5082 7051 7050 1040 9853 9853 9853
9853 9853 9853 1677 2230 2603 4771 9853 2802 2803 8813 9853
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^3
10^2
10
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 157648
1
0
4203 6971 6781 9227 9227 9227 23 179 197 8536 8706 1692 4023 9853
5650 2882 3072 626 626 626 9830 9674 9656 9853 9853 1317 1147 8161 5830
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 157648
1
0
9853 9853 9853 9853 9853 9853 9853 9853 9853
9853 9853 9853 9853 9853 9853 9853 9853
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