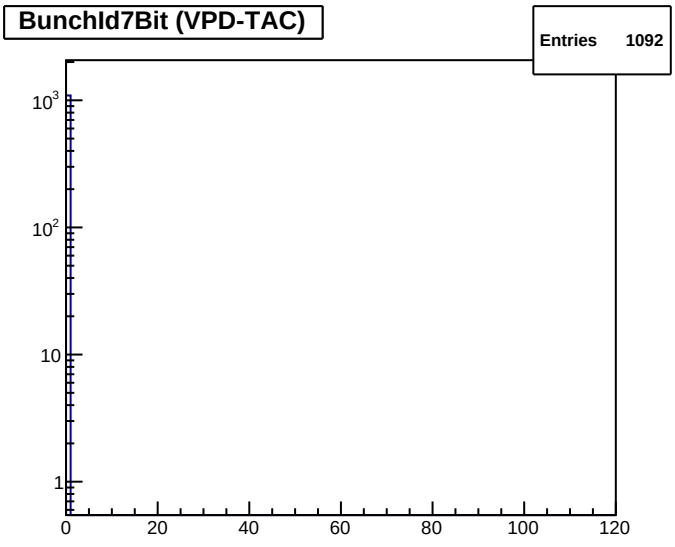
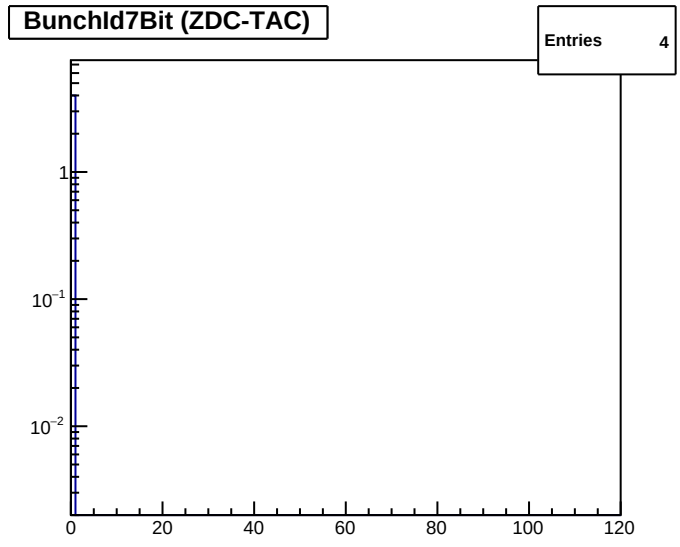
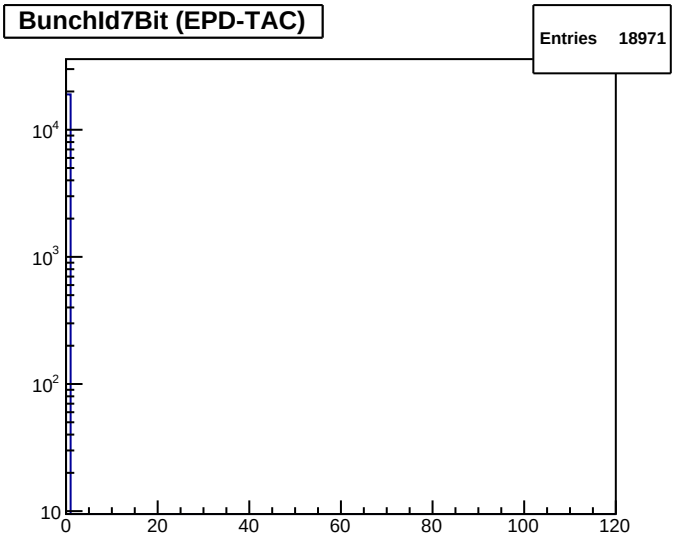
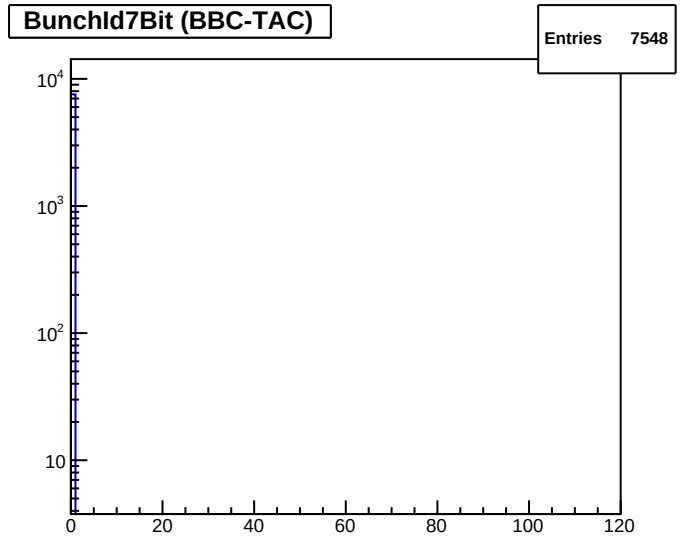
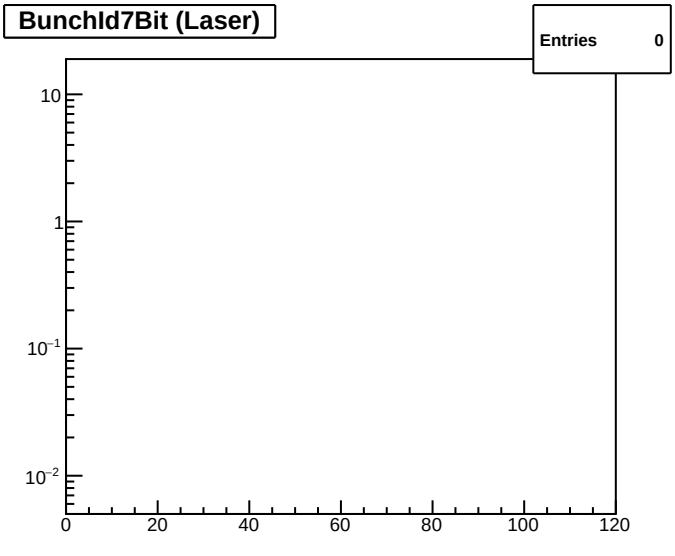
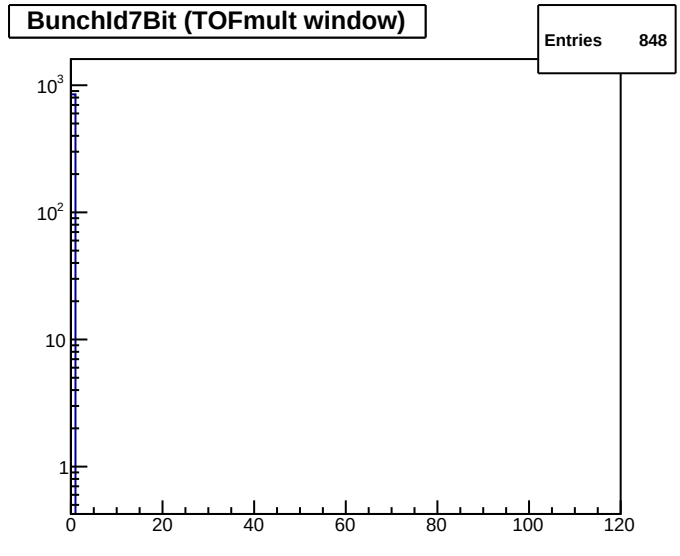

BunchId7Bit (VPD-TAC)
Entries 1092
10^3
10^2
10
1
0 20 40 60 80 100 120

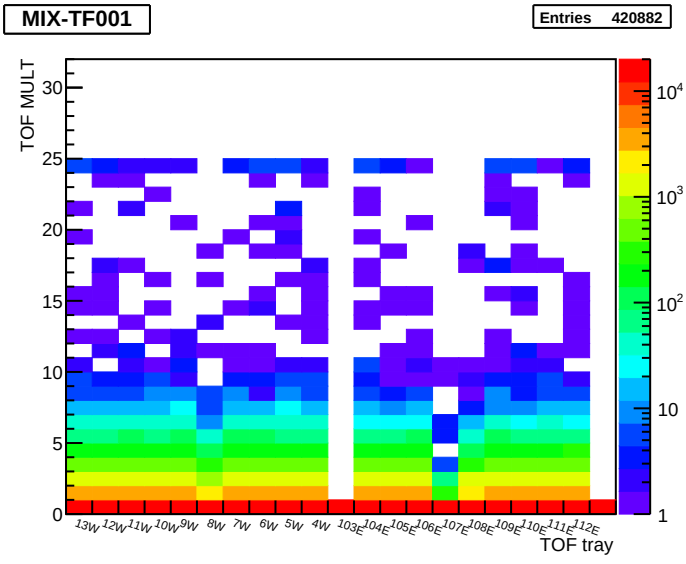

BunchId7Bit (ZDC-TAC)
Entries 4
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

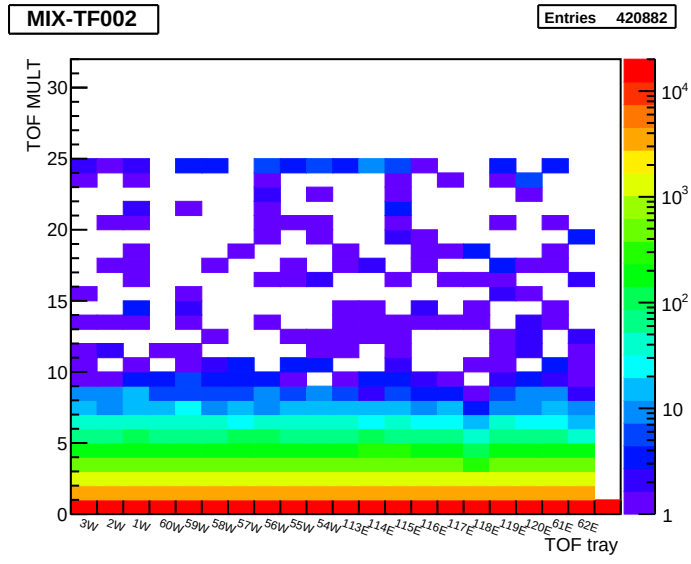

BunchId7Bit (EPD-TAC)
Entries 18971
10^4
10^3
10^2
10
0 20 40 60 80 100 120

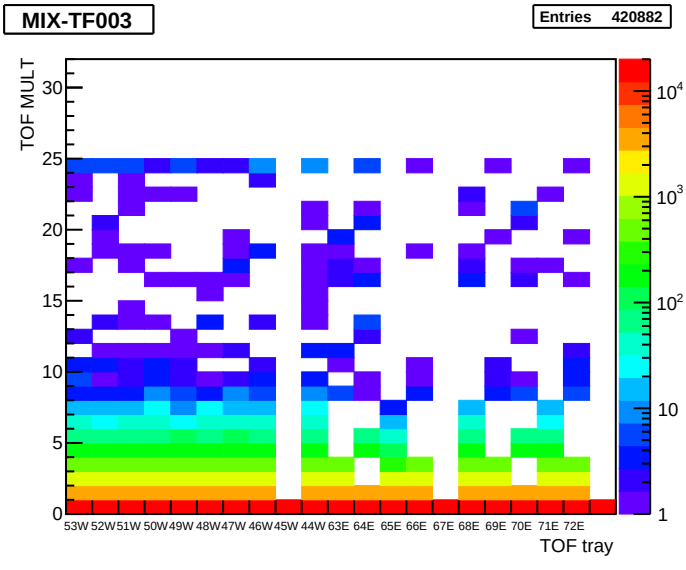

BunchId7Bit (BBC-TAC)
Entries 7548
10^4
10^3
10^2
10
0 20 40 60 80 100 120

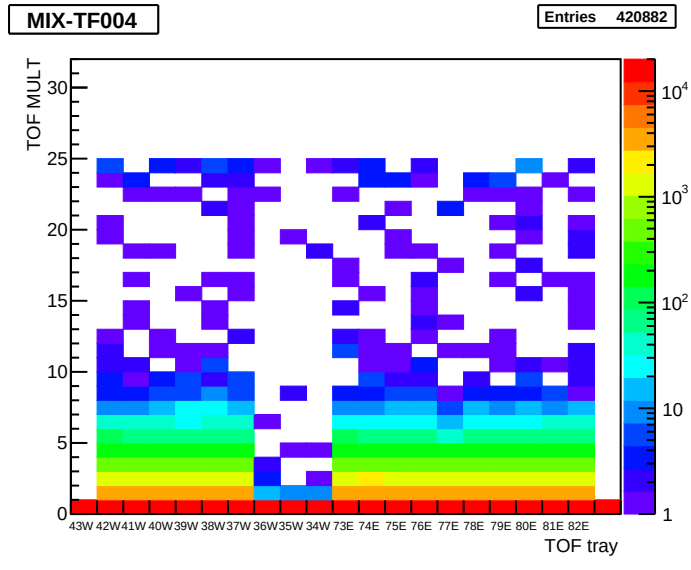

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

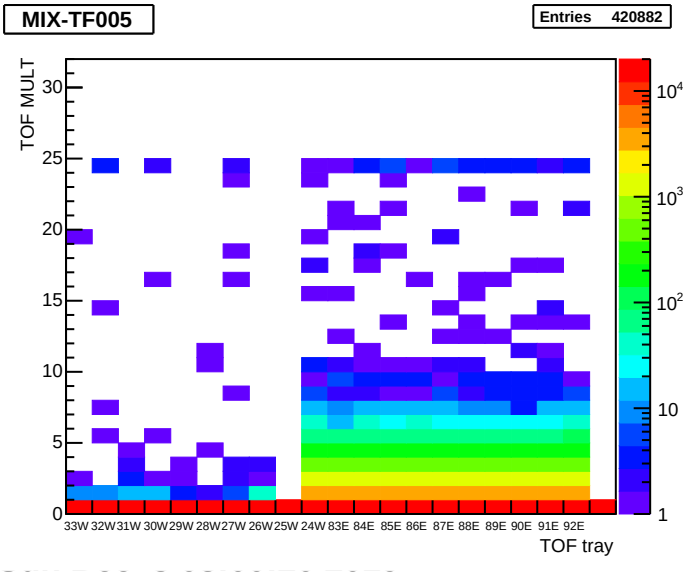

BunchId7Bit (TOFmult window)
Entries 848
10^3
10^2
10
1
0 20 40 60 80 100 120

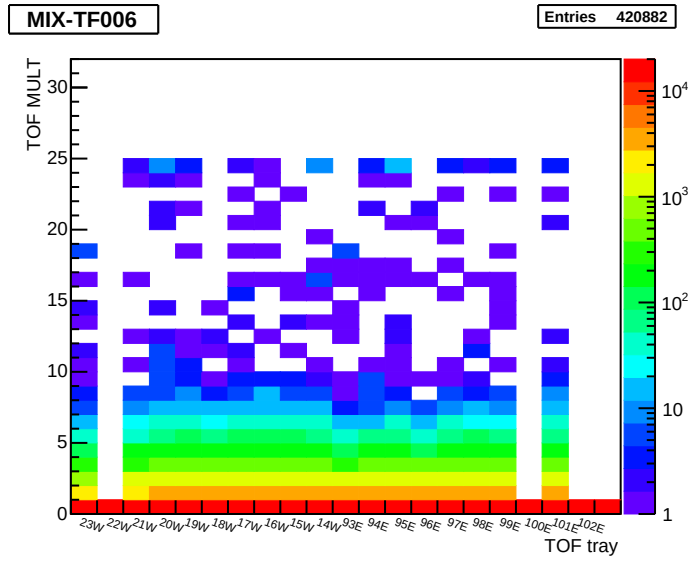

MIX-TF001
Entries 420882
TOF MULT
TOF tray

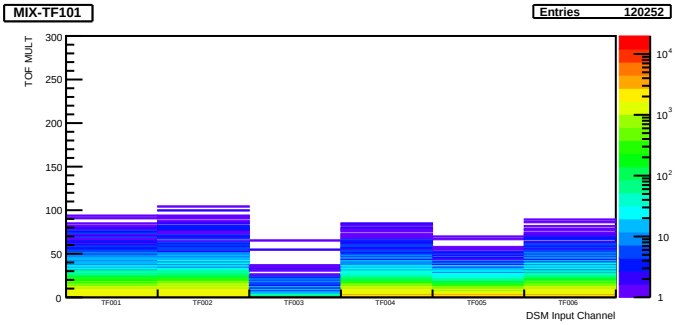

MIX-TF002
Entries 420882
TOF MULT
TOF tray

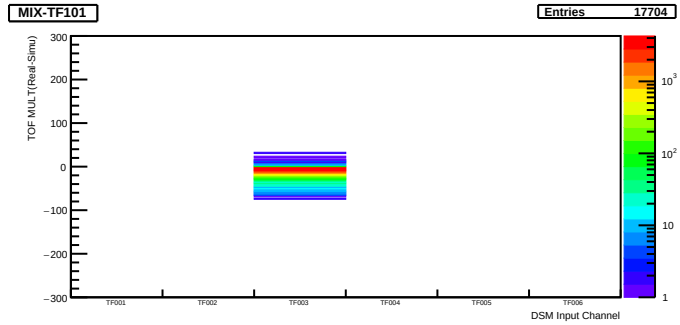

MIX-TF003
Entries 420882
TOF MULT
TOF tray

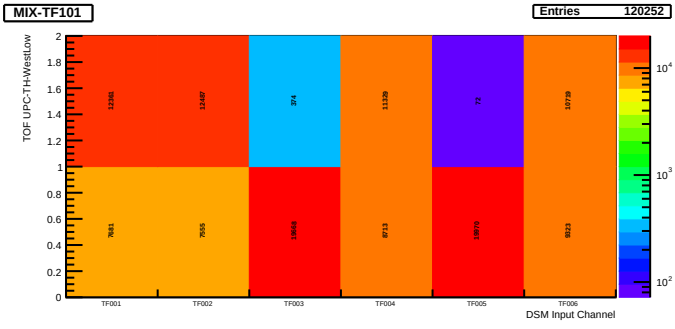

MIX-TF004
Entries 420882
TOF MULT
TOF tray

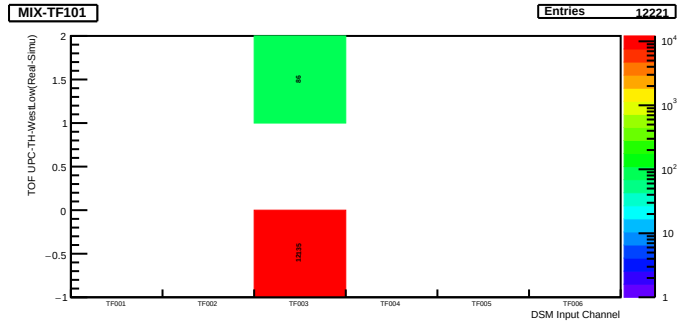

MIX-TF005
Entries 420882
TOF MULT
TOF tray

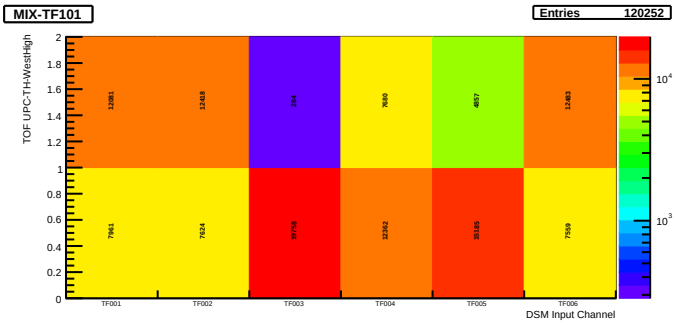

MIX-TF006
Entries 420882
TOF MULT
TOF tray

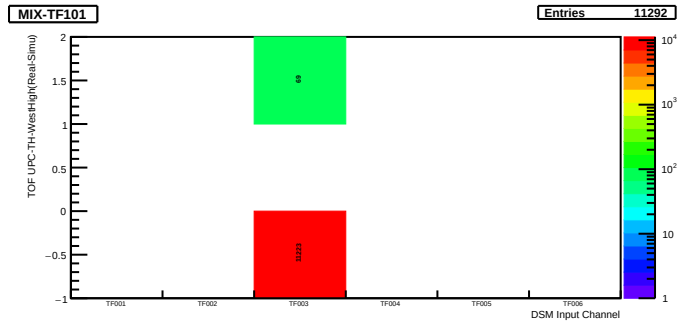

MIX-TF101
Entries 120252
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

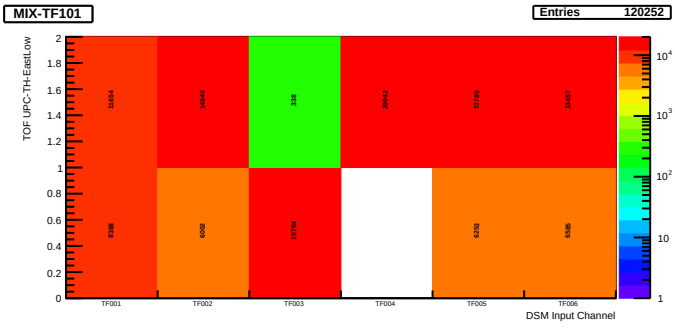

MIX-TF101
Entries 17704
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

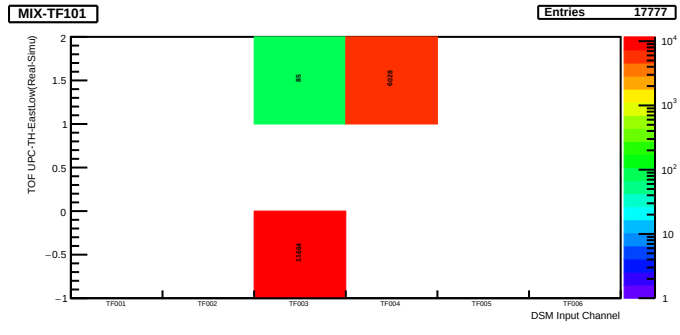

MIX-TF101
Entries 120252
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

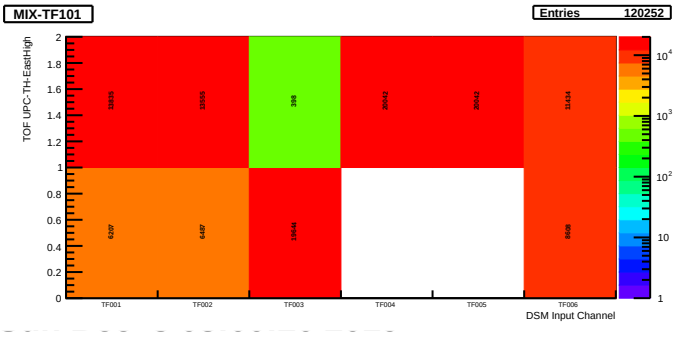

MIX-TF101
Entries 12221
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

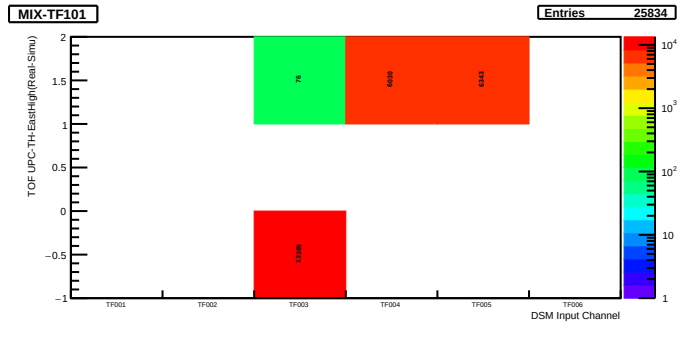

MIX-TF101
Entries 120252
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

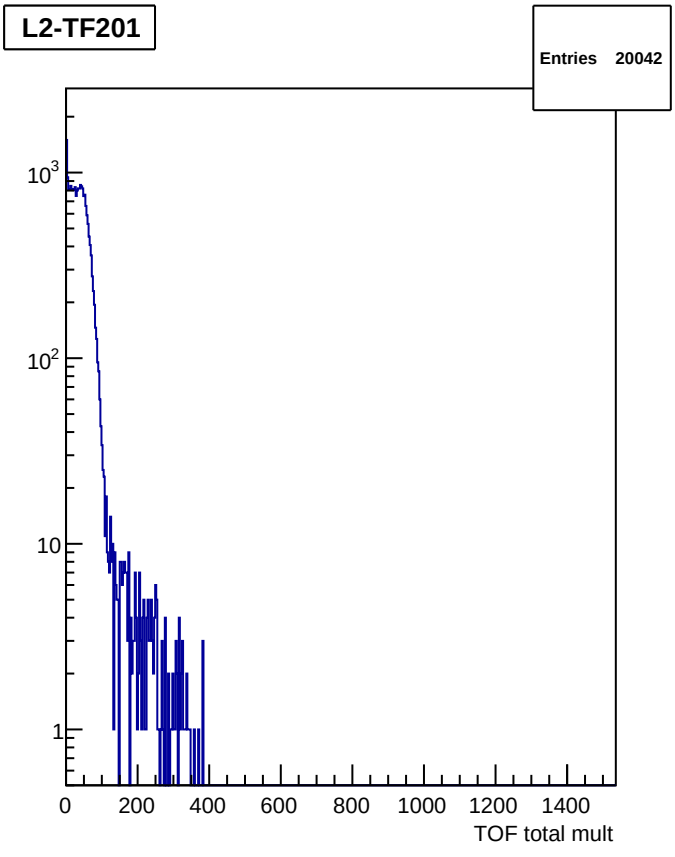

MIX-TF101
Entries 11292
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

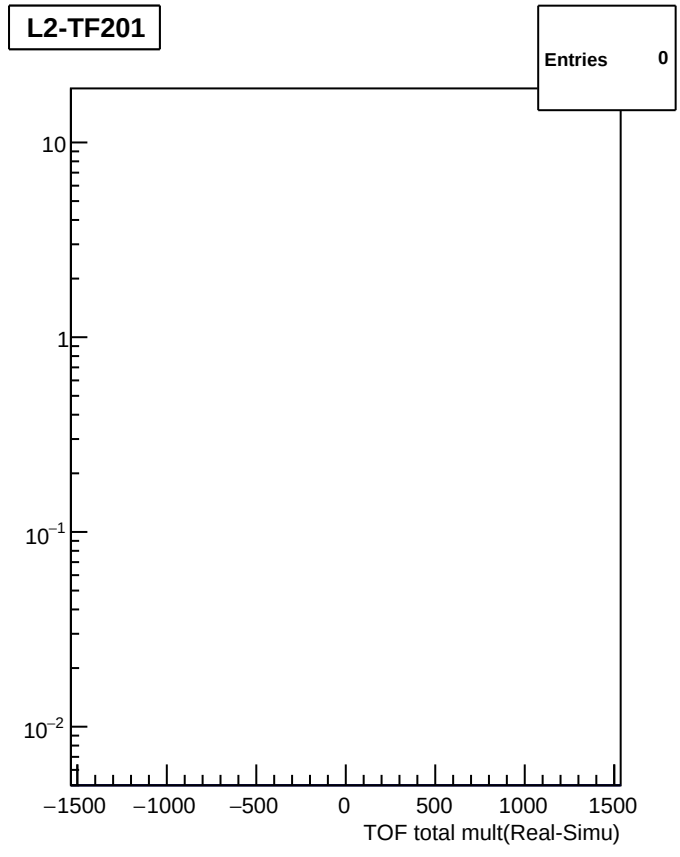

MIX-TF101
Entries 120252
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

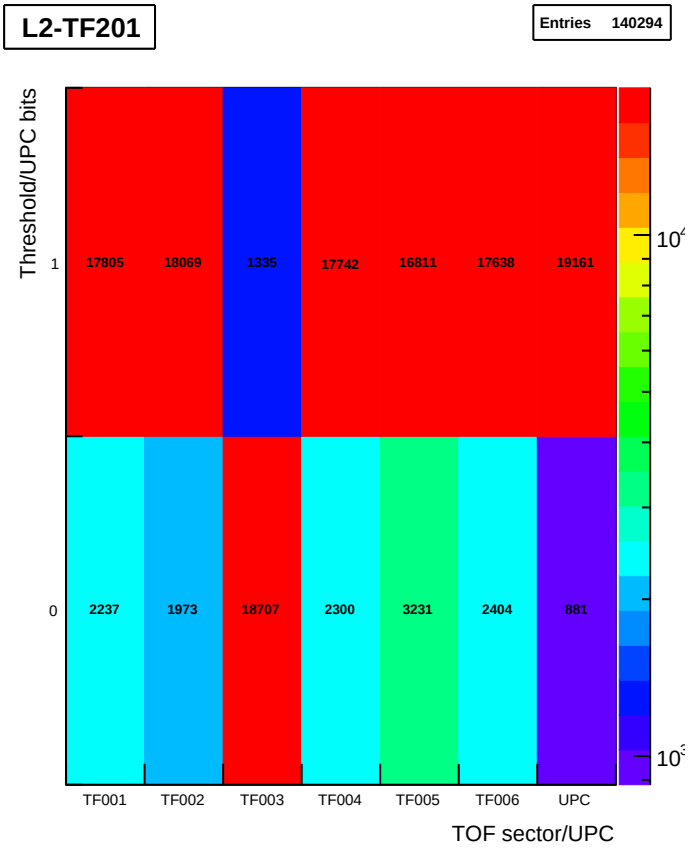

MIX-TF101
Entries 17777
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

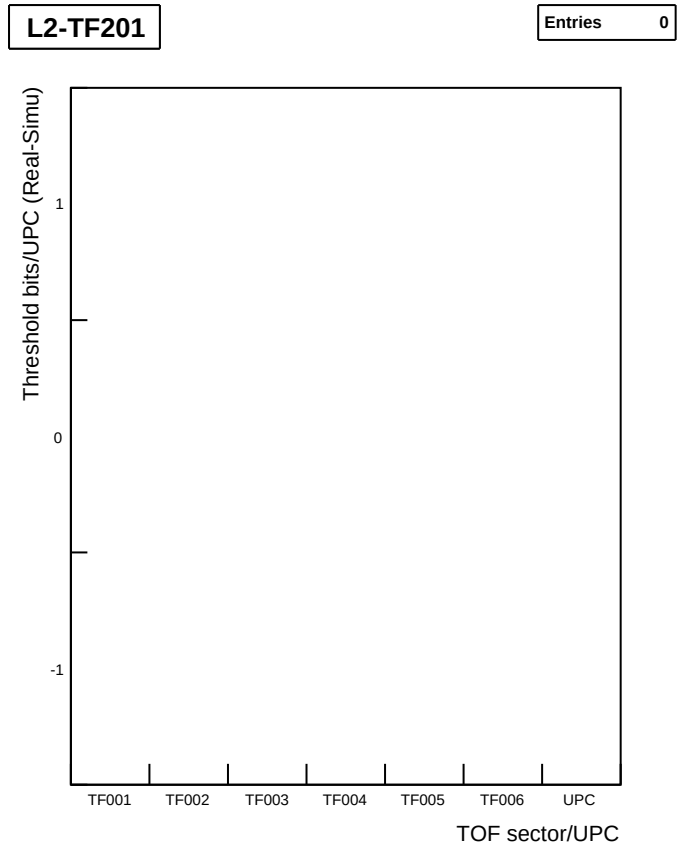

MIX-TF101
Entries 120252
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

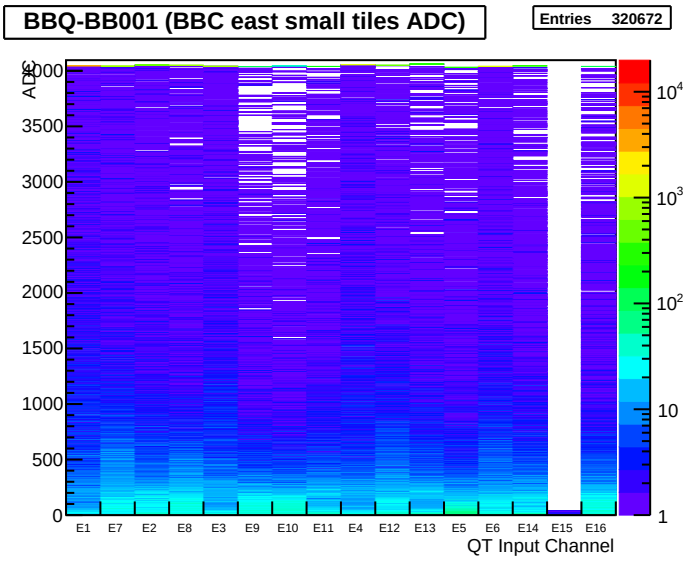

MIX-TF101
Entries 25834
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

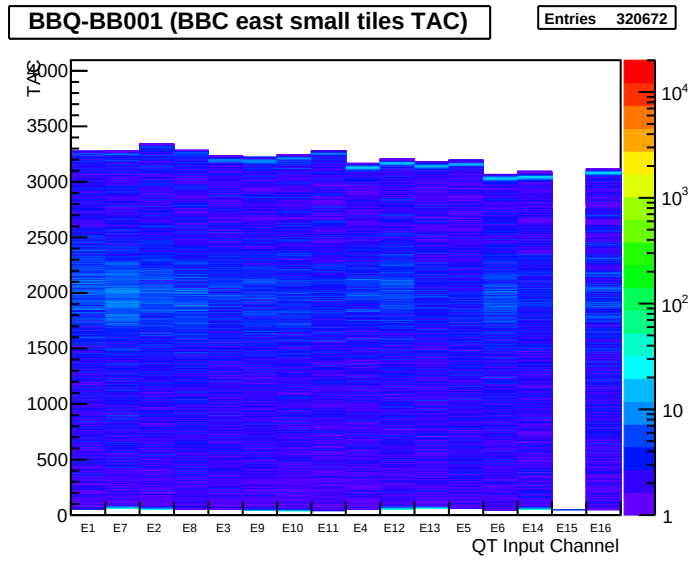

L2-TF201
Entries 20042
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

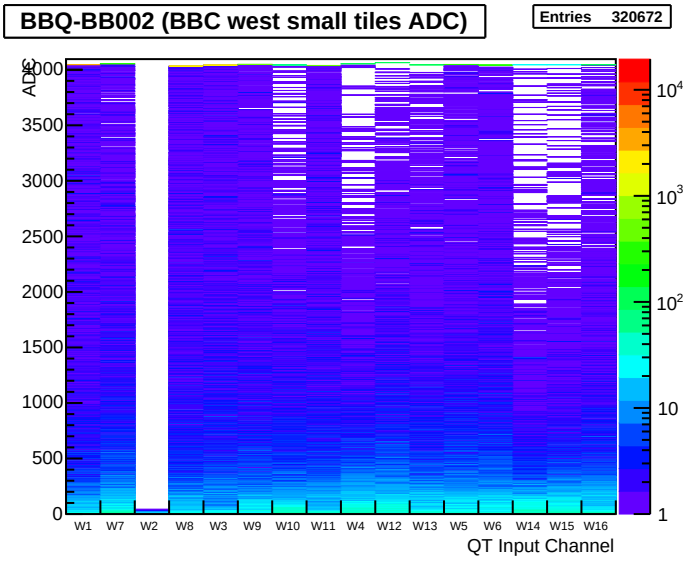

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

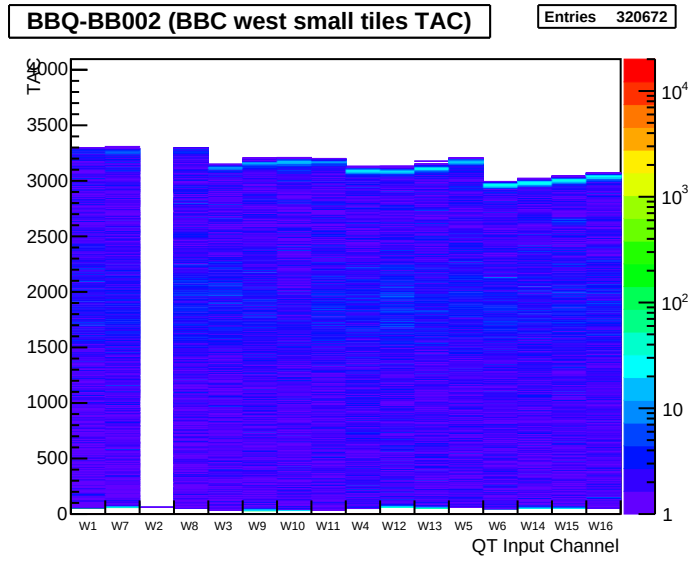

L2-TF201
Entries 140294
Threshold/UPC bits
1
0
17805
18069
1335
17742
16811
17638
19161
2237
1973
18707
2300
3231
2404
881
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

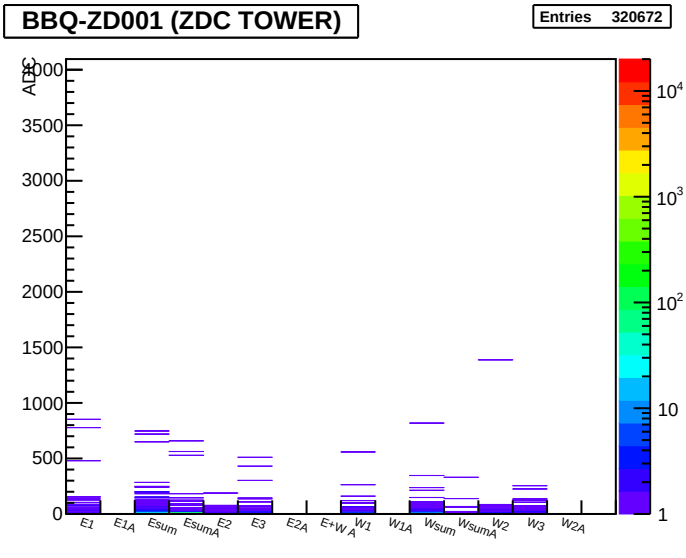

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

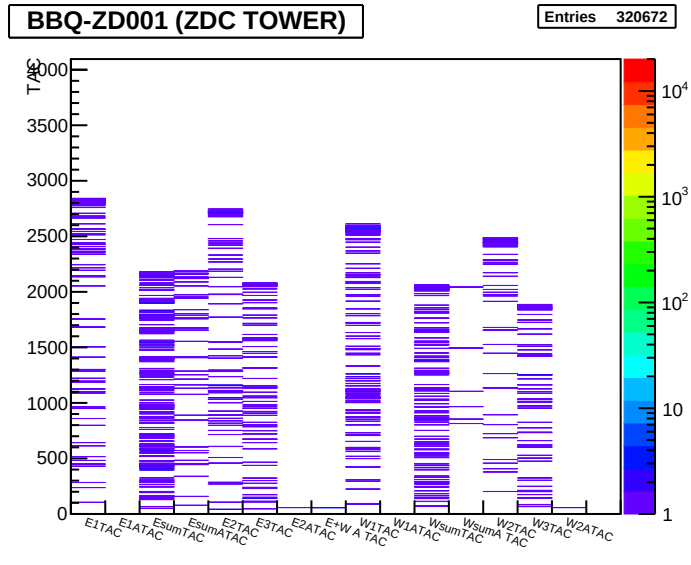

BBQ-BB001 (BBC east small tiles ADC)
Entries 320672
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

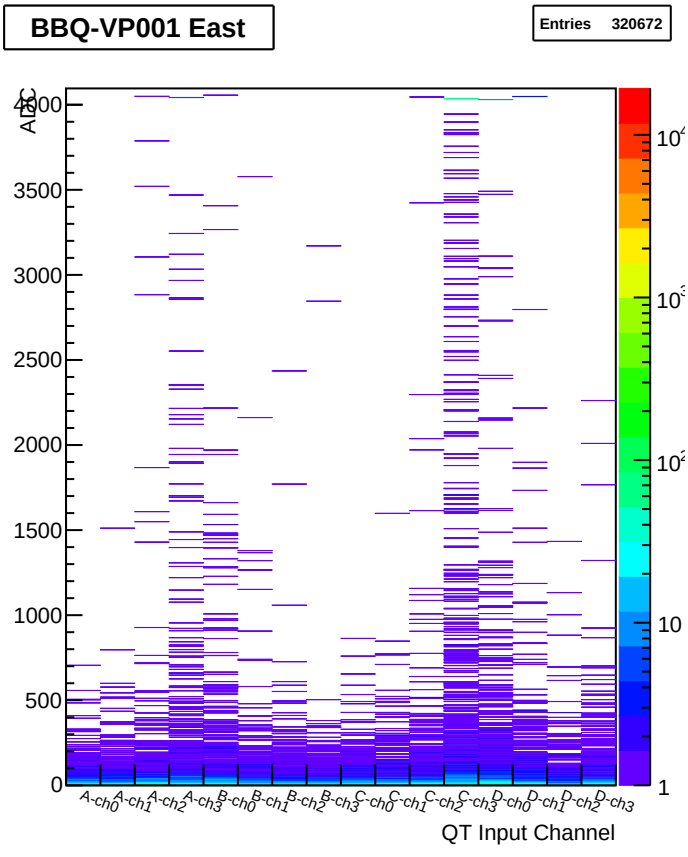

BBQ-BB001 (BBC east small tiles TAC)
Entries 320672
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

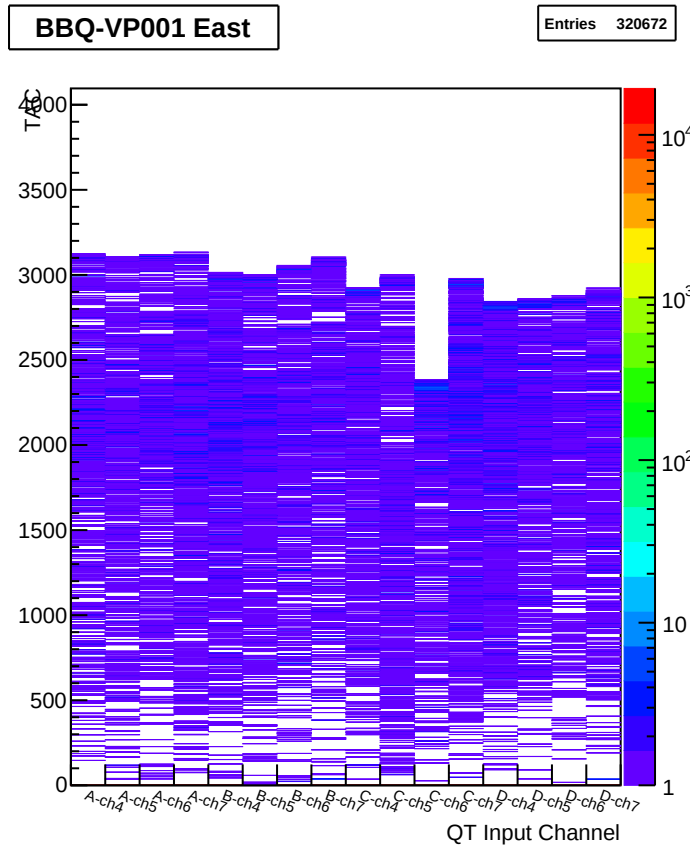

BBQ-BB002 (BBC west small tiles ADC)
Entries 320672
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

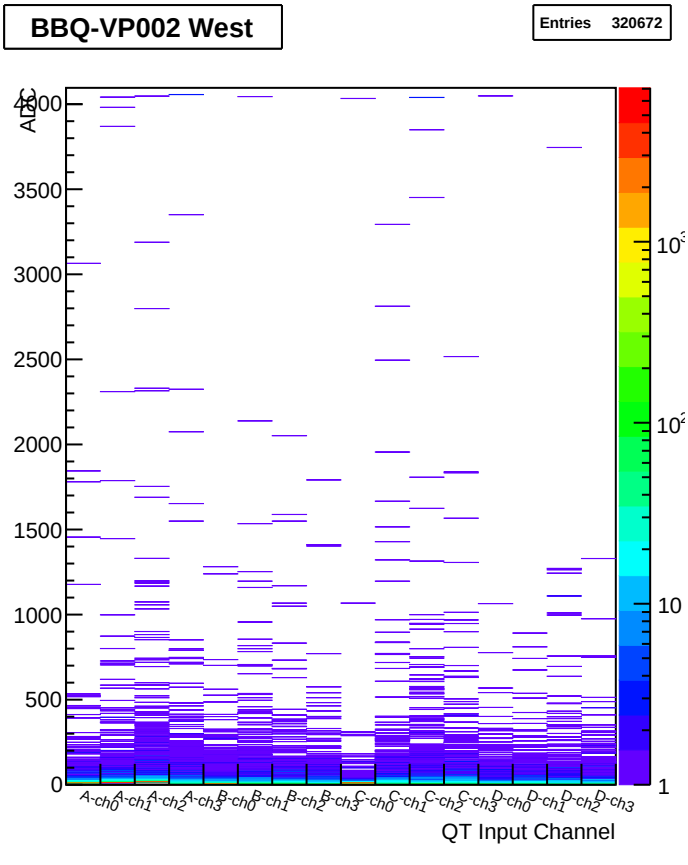

BBQ-BB002 (BBC west small tiles TAC)
Entries 320672
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

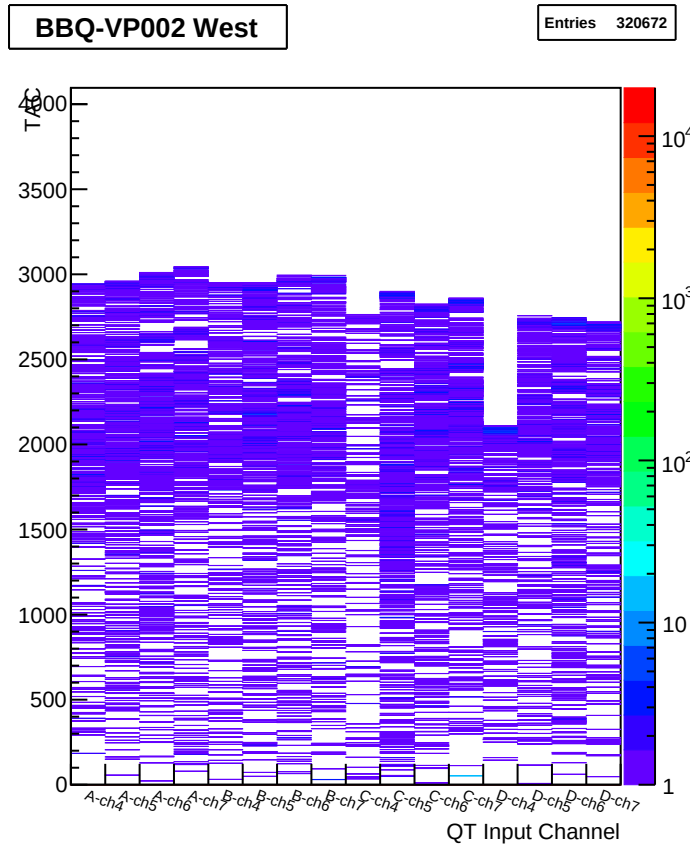

BBQ-ZD001 (ZDC TOWER)
Entries 320672
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

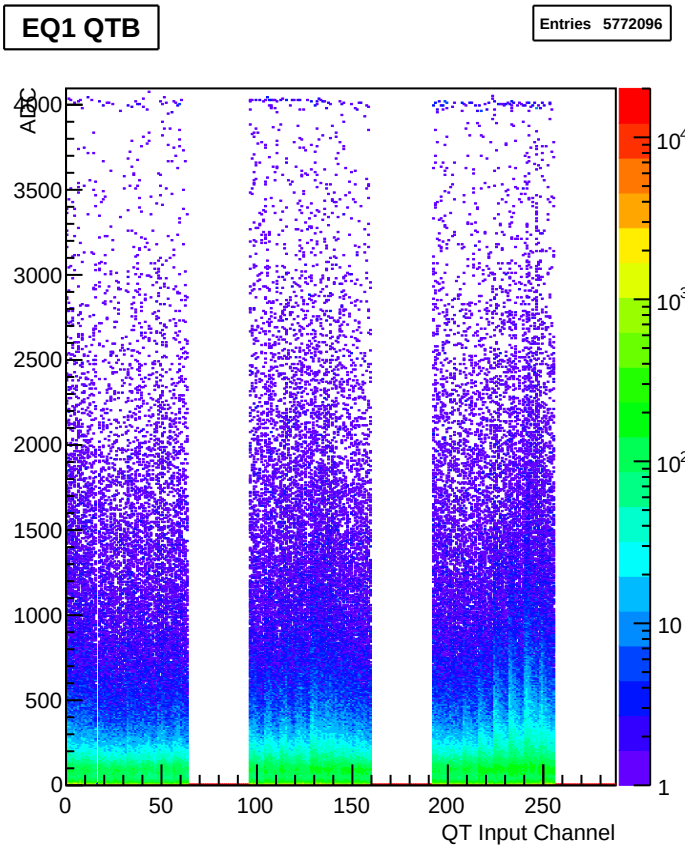

BBQ-ZD001 (ZDC TOWER)
Entries 320672
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

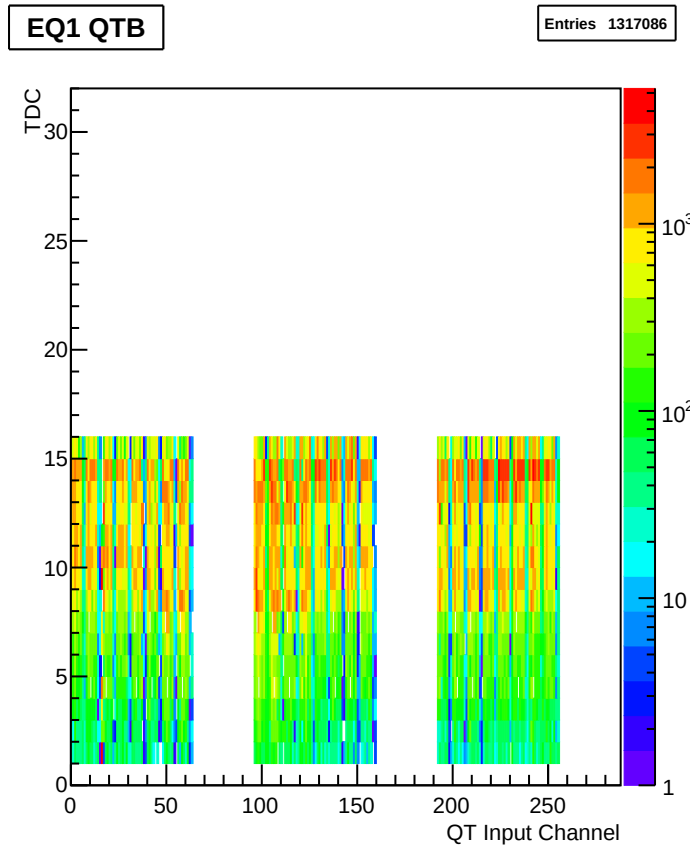

BBQ-VP001 East
Entries 320672
ADC
QT Input Channel

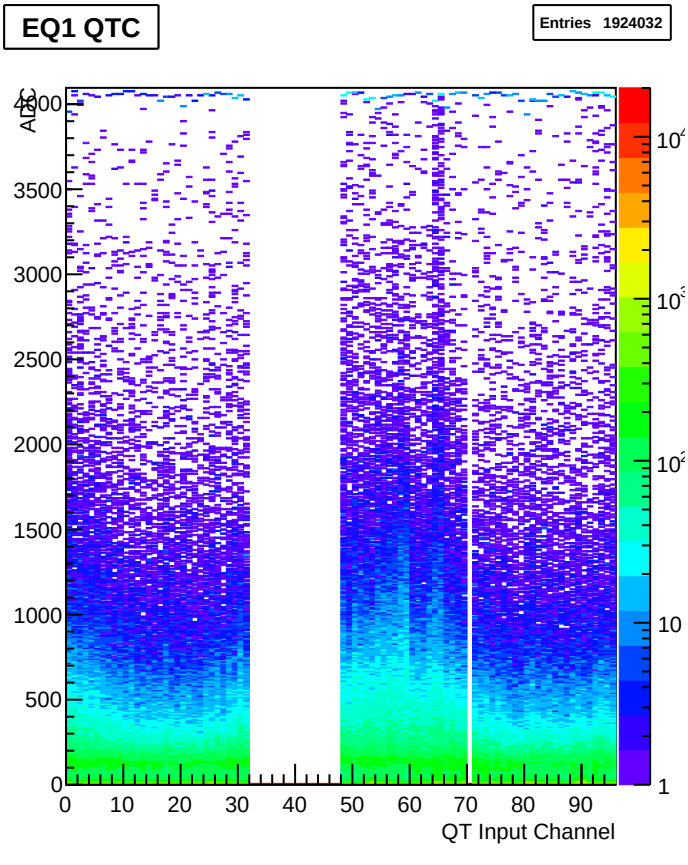

BBQ-VP001 East
Entries 320672
TADC
QT Input Channel

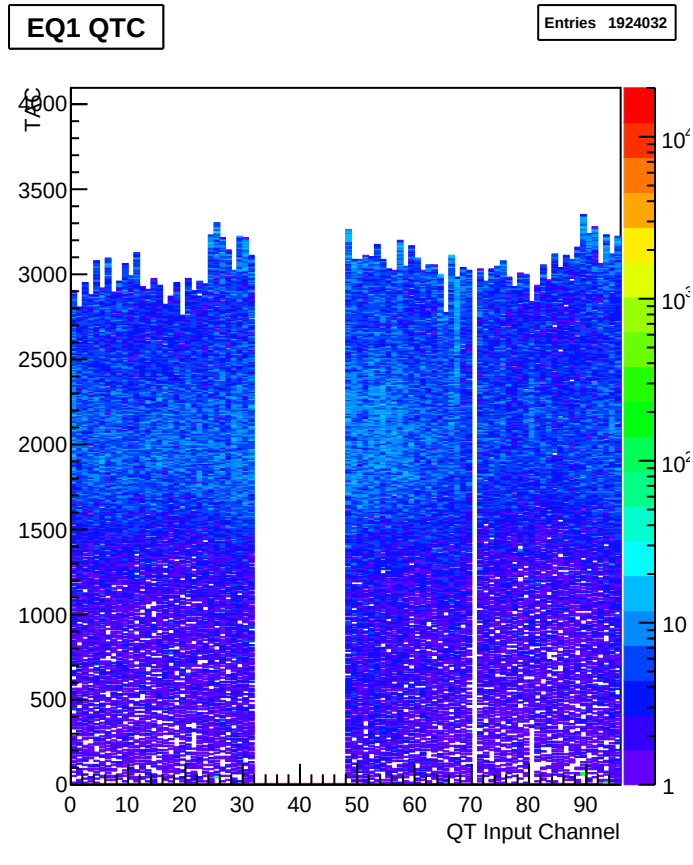

BBQ-VP002 West
Entries 320672
ADC
QT Input Channel

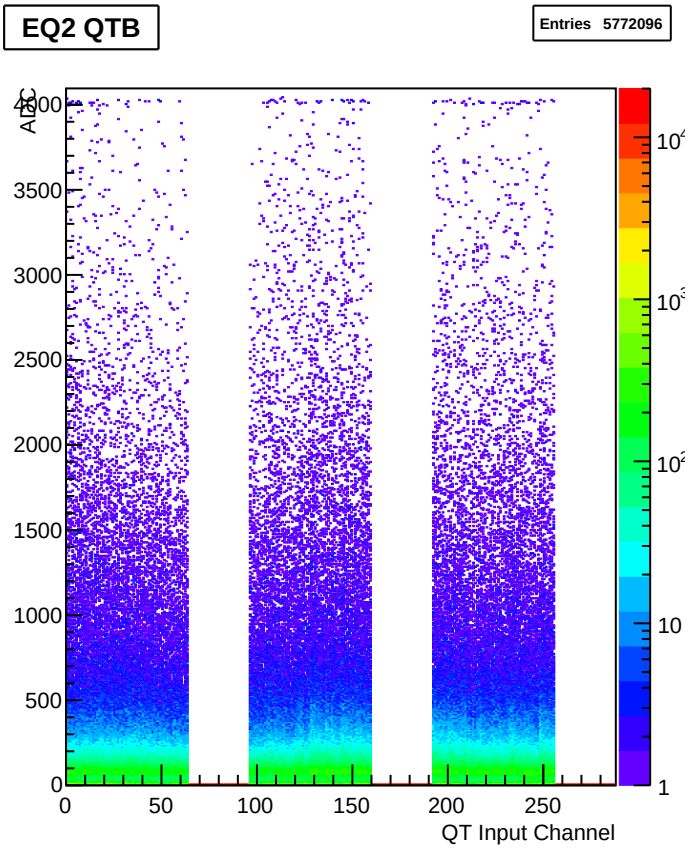

BBQ-VP002 West
Entries 320672
TADC
QT Input Channel

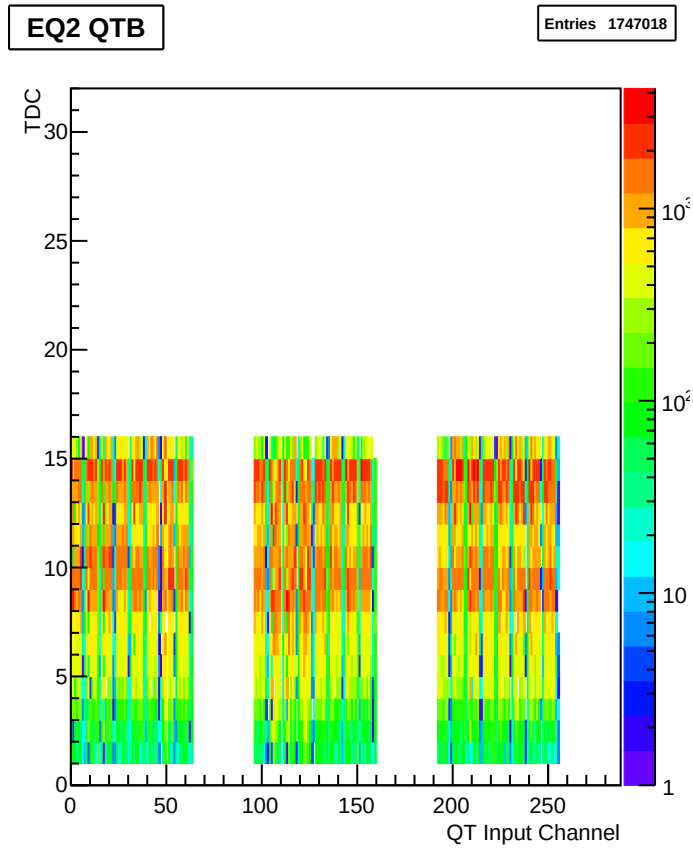

EQ1 QTB
Entries 5772096
ADC
QT Input Channel

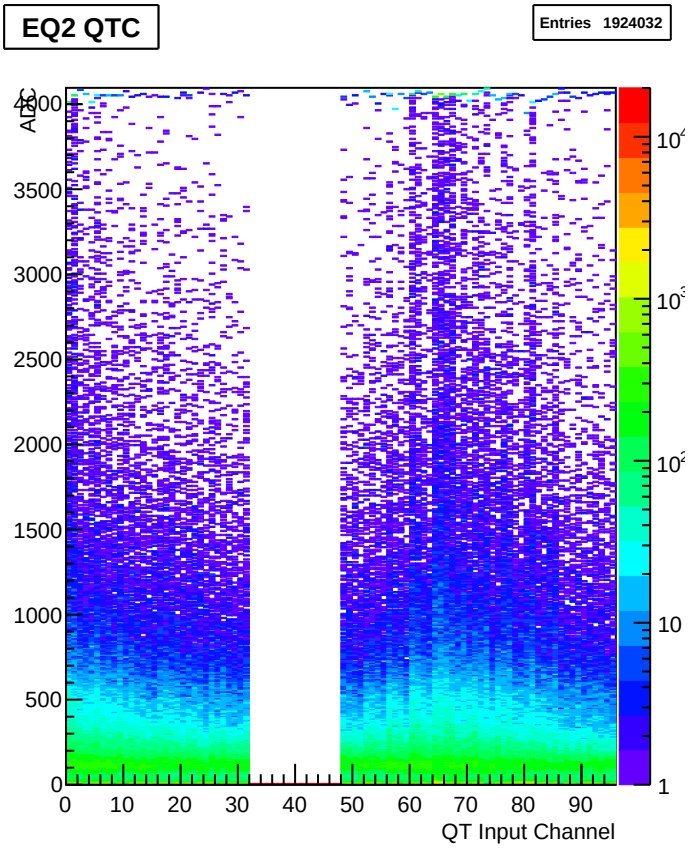

EQ1 QTB
Entries 1317086
TDC
QT Input Channel

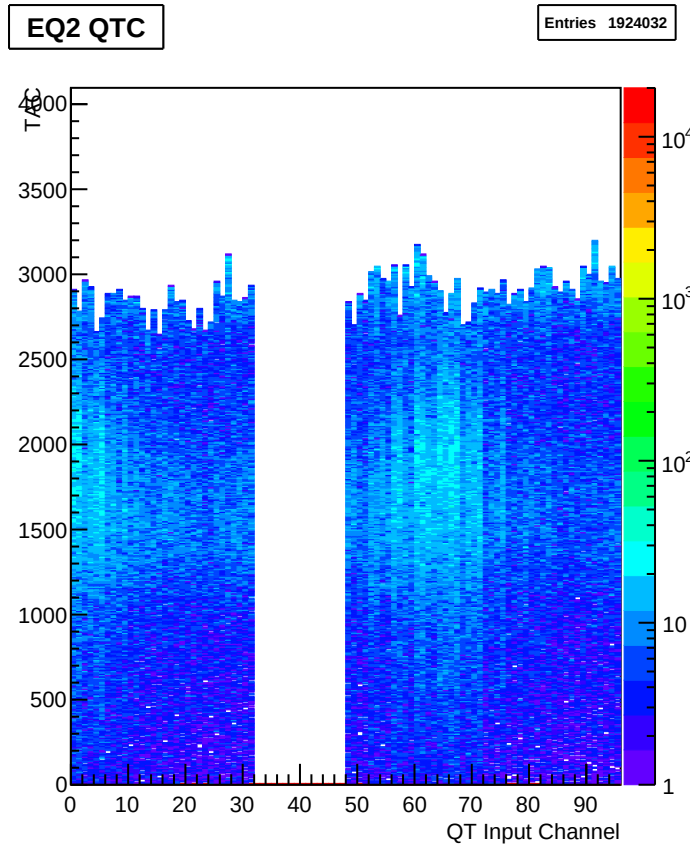

EQ1 QTC
Entries 1924032
ADC
QT Input Channel

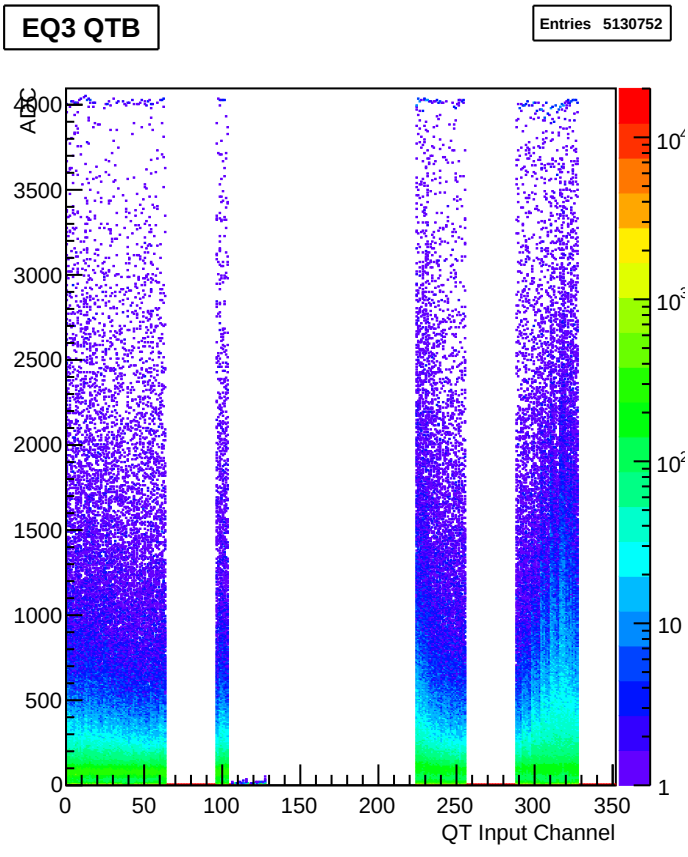

EQ1 QTC
Entries 1924032
TADC
QT Input Channel

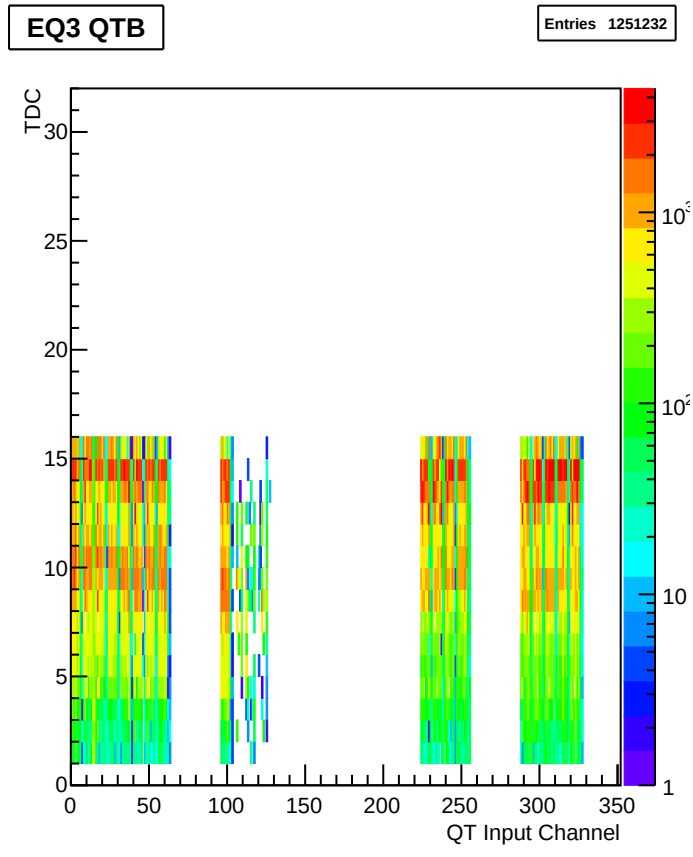

EQ2 QTB
Entries 5772096
ADC
QT Input Channel

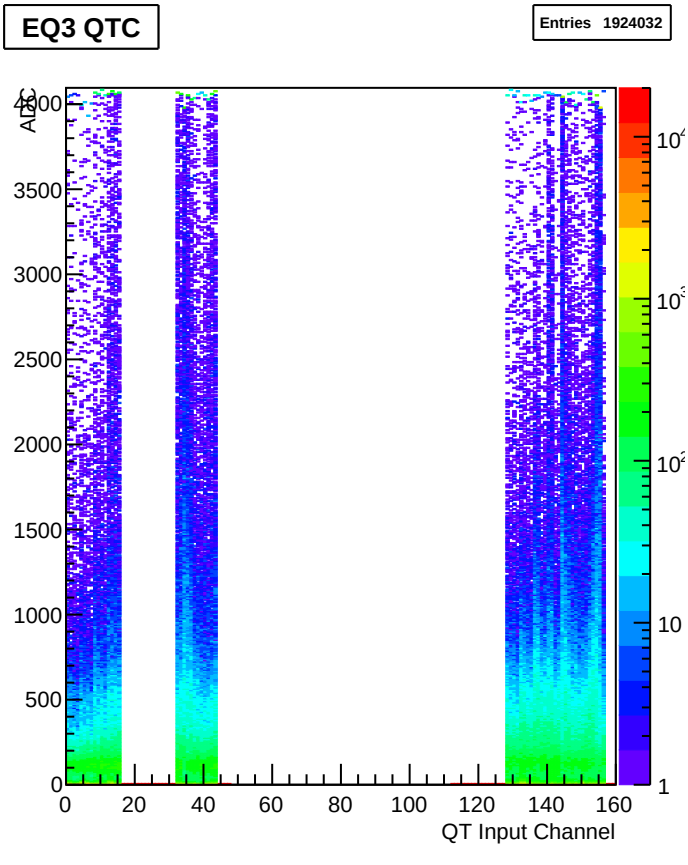

EQ2 QTB
Entries 1747018
TDC
QT Input Channel

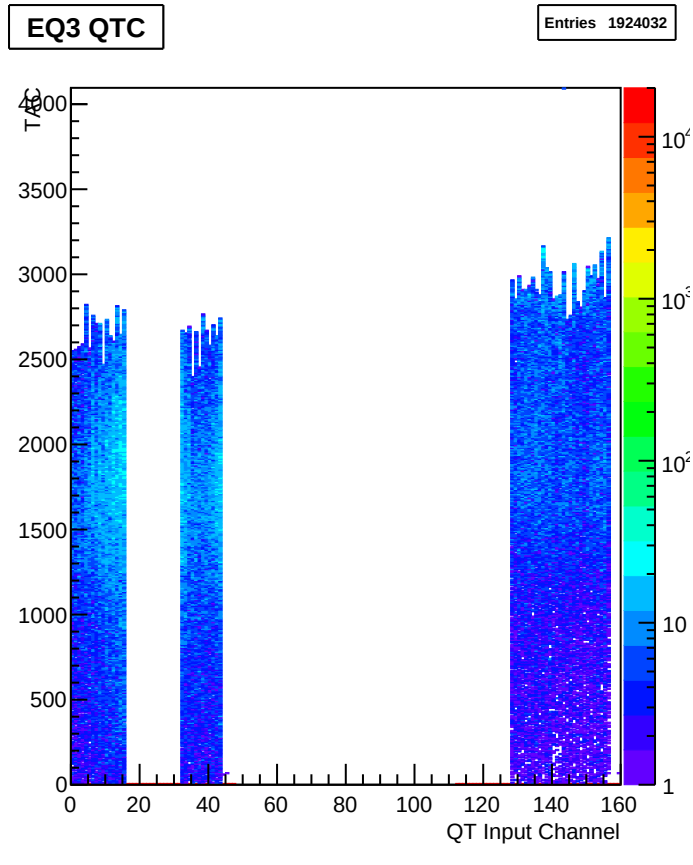

EQ2 QTC
Entries 1924032
ADC
QT Input Channel

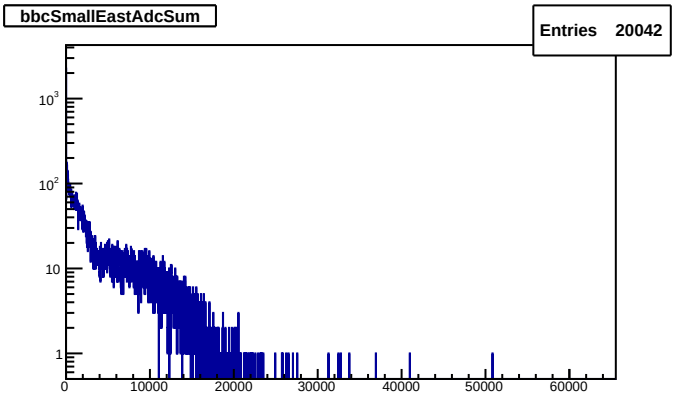

EQ2 QTC
Entries 1924032
TADC
QT Input Channel

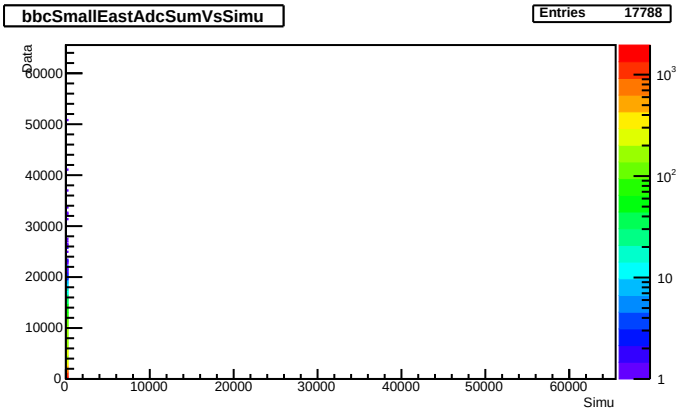

EQ3 QTB
Entries 5130752
ADC
QT Input Channel

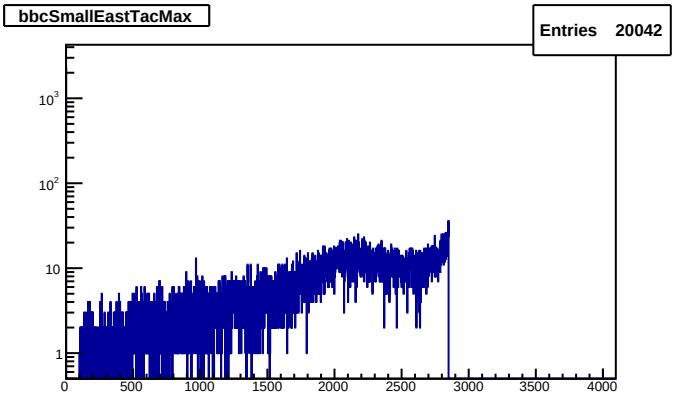

EQ3 QTB
Entries 1251232
TDC
QT Input Channel

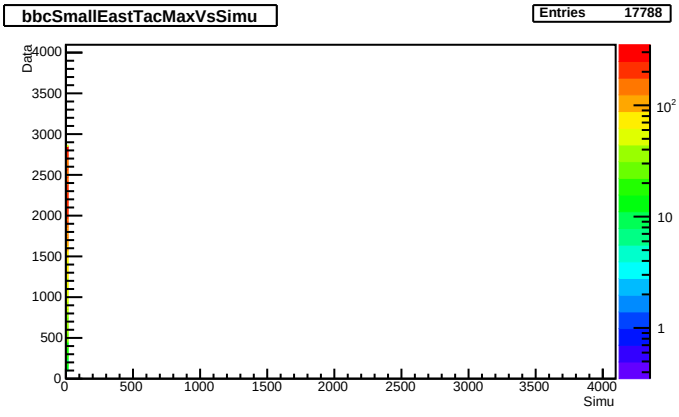

EQ3 QTC
Entries 1924032
ADC
QT Input Channel

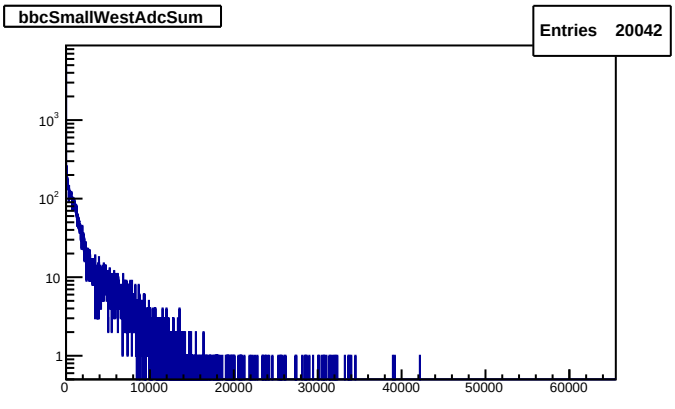

EQ3 QTC
Entries 1924032
TADC
QT Input Channel

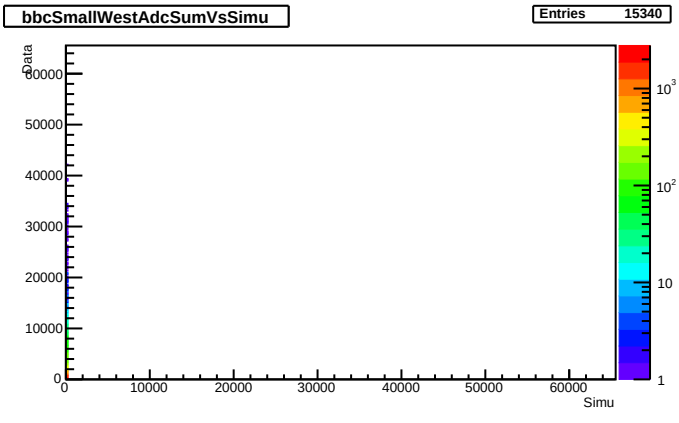

bbcSmallEastAdcSum
Entries 20042

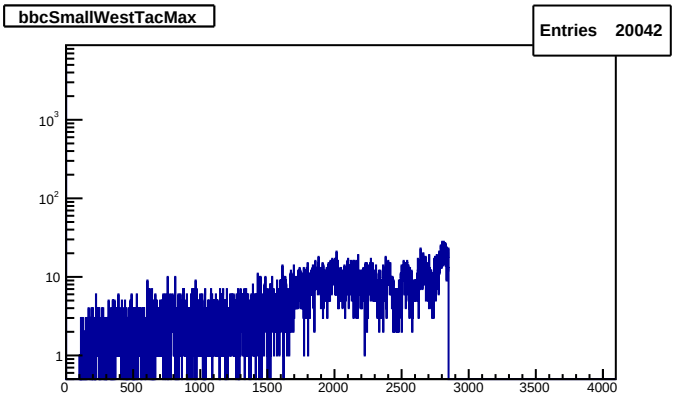

bbcSmallEastAdcSumVsSimu
Entries 17788
Data
Simu

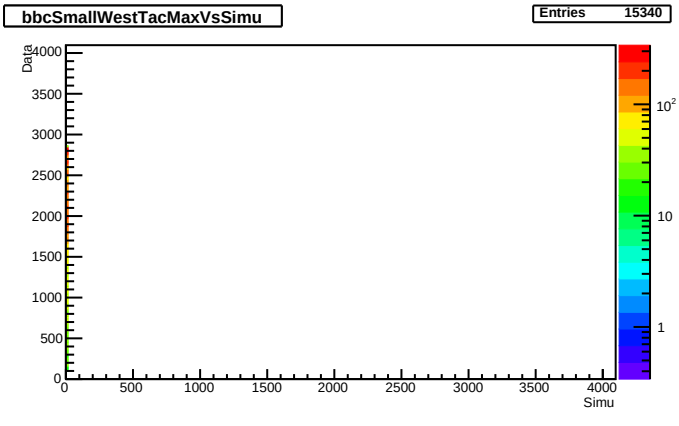

bbcSmallEastTacMax
Entries 20042

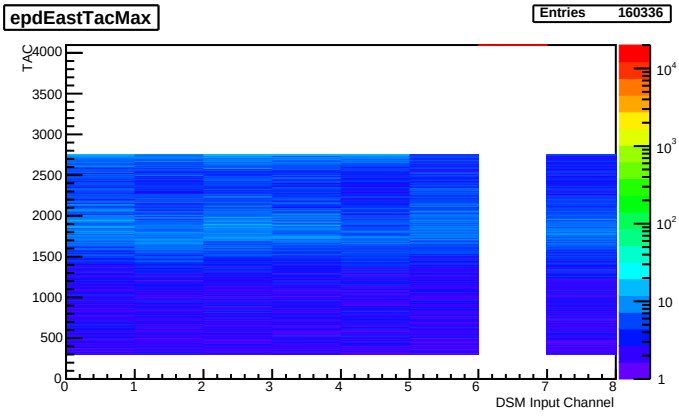

bbcSmallEastTacMaxVsSimu
Entries 17788
Data
Simu

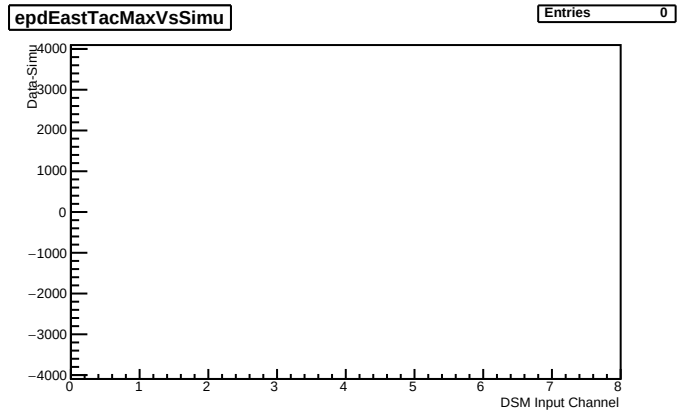

bbcSmallWestAdcSum
Entries 20042

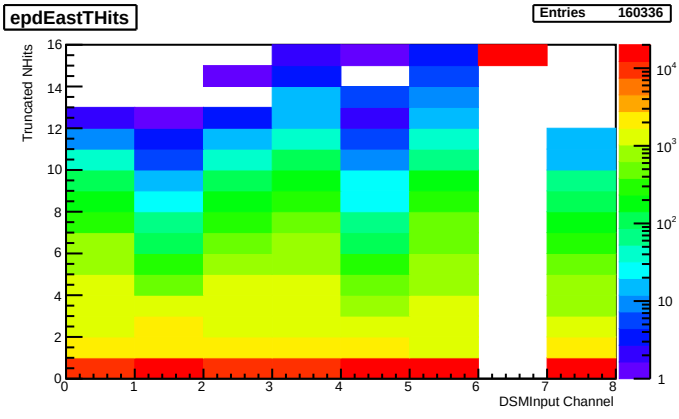

bbcSmallWestAdcSumVsSimu
Entries 15340
Data
Simu

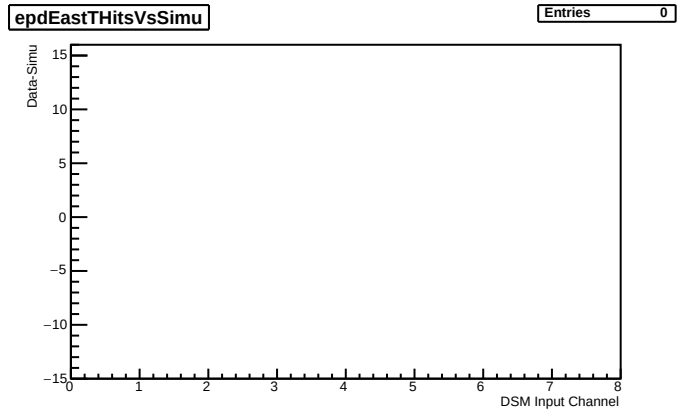

bbcSmallWestTacMax
Entries 20042

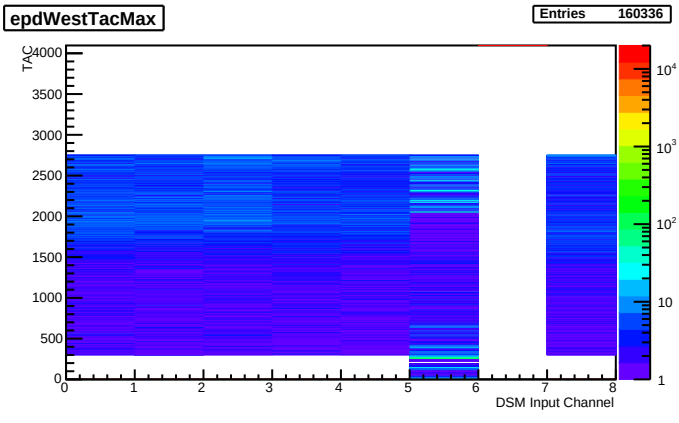

bbcSmallWestTacMaxVsSimu
Entries 15340
Data
Simu

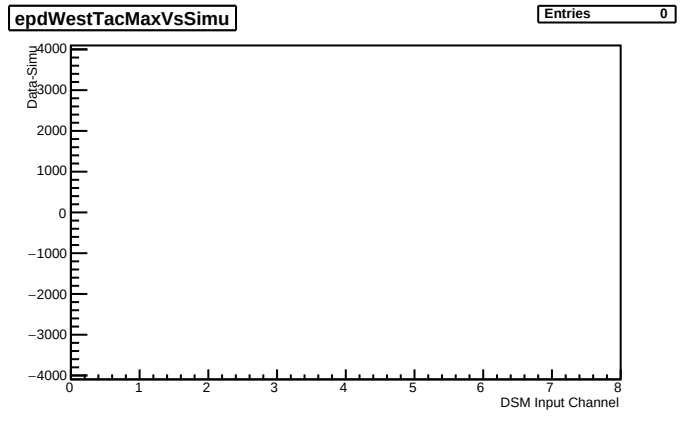

epdEastTacMax
Entries 160336
TAC
DSM Input Channel

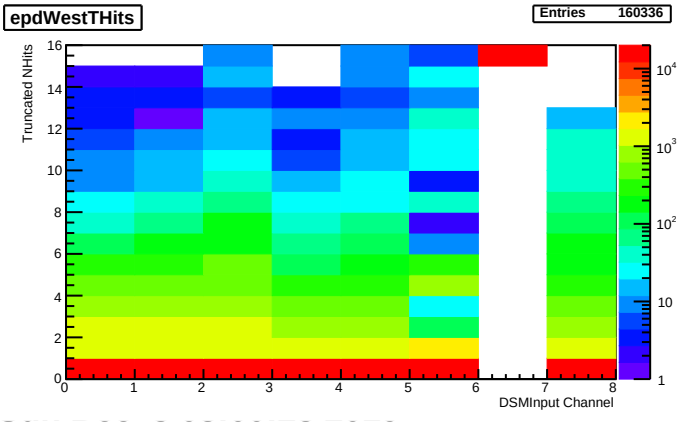

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

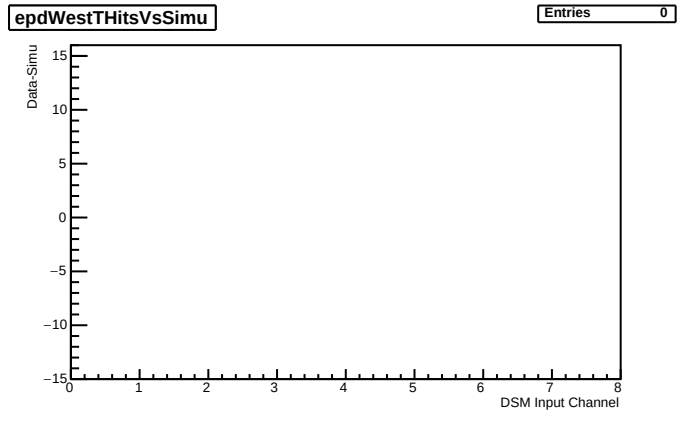

epdEastTHits
Entries 160336
Truncated NHits
DSMInput Channel

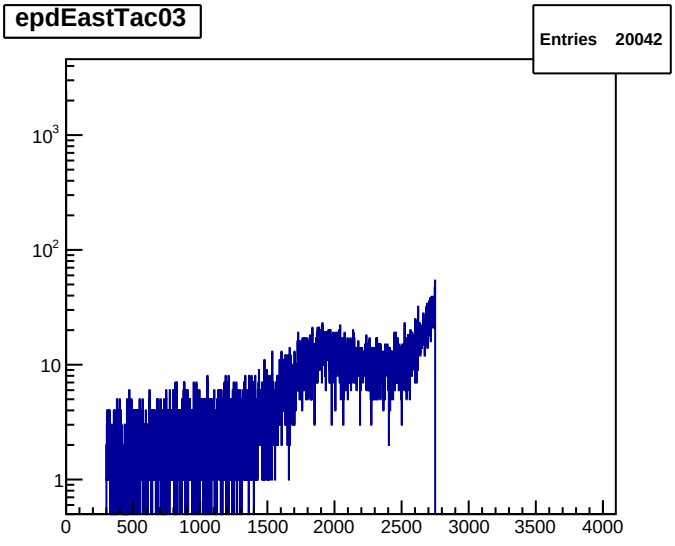

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

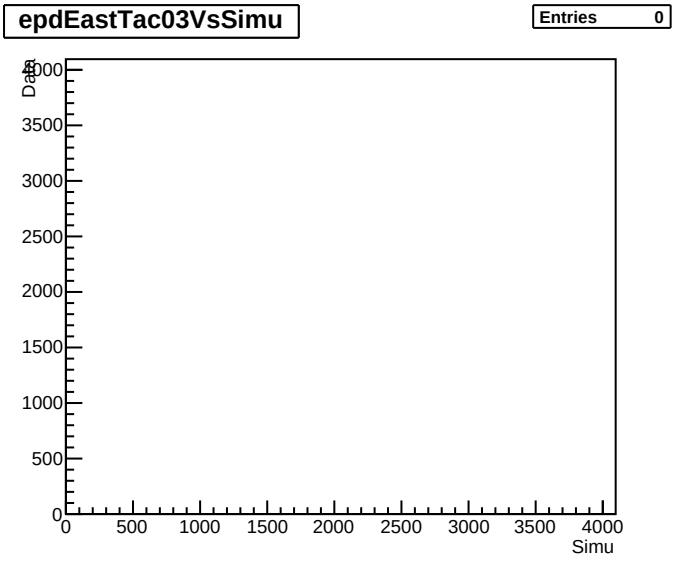

epdWestTacMax
Entries 160336
TAC
DSM Input Channel

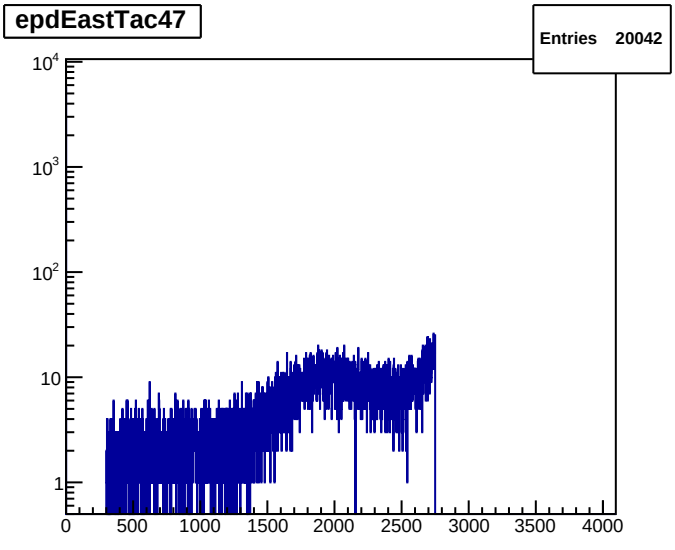

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

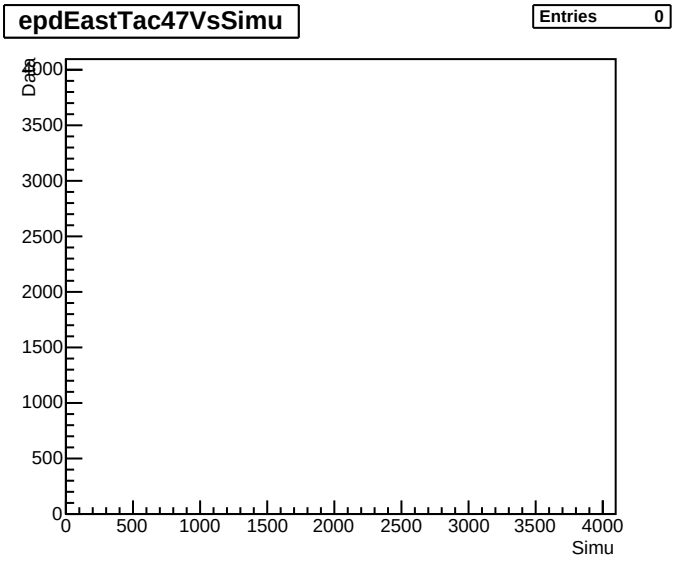

epdWestTHits
Entries 160336
Truncated NHits
DSMInput Channel

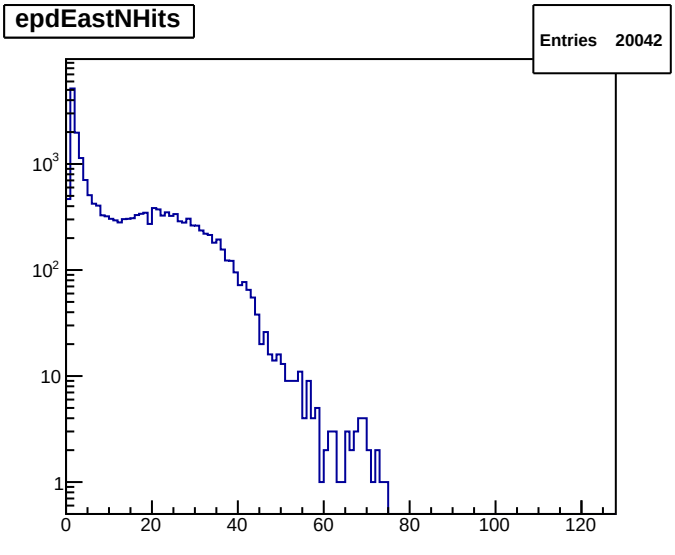

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

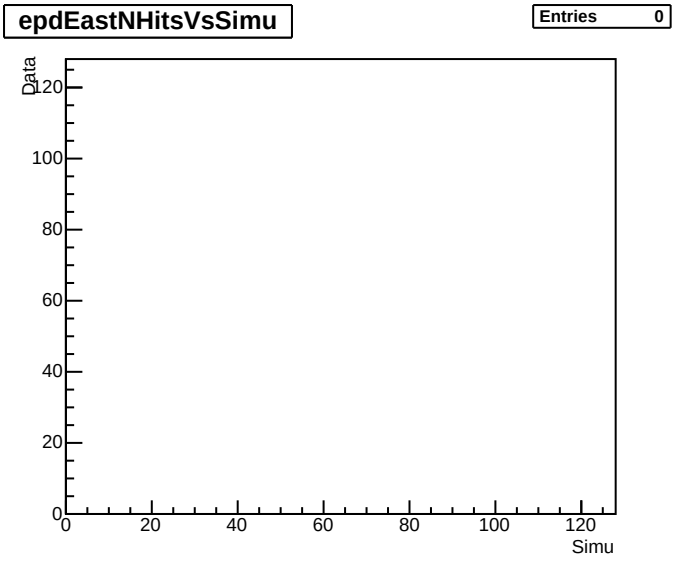

epdEastTac03
Entries 20042

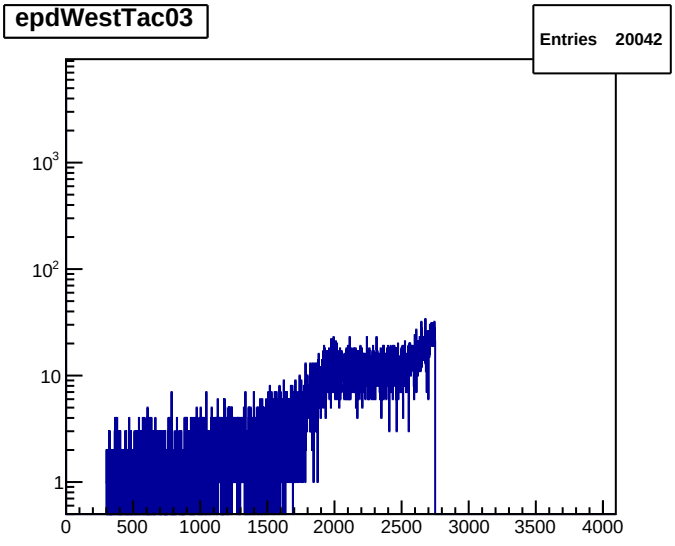

epdEastTac03VsSimu
Entries 0
Data
Simu

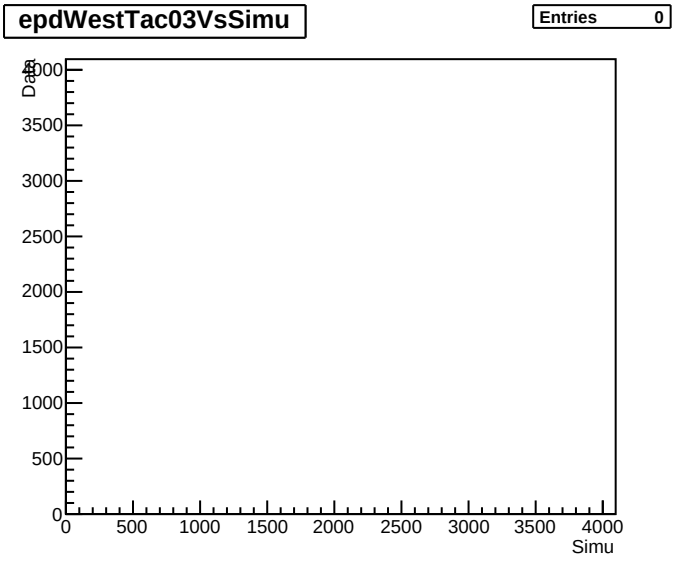

epdEastTac47
Entries 20042

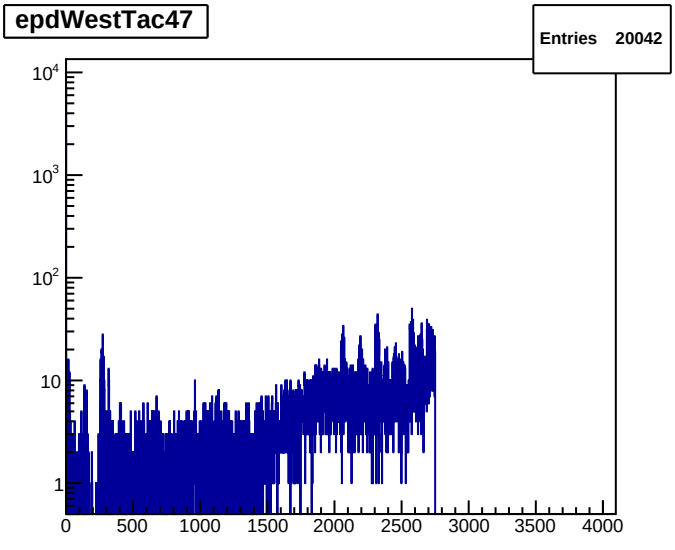

epdEastTac47VsSimu
Entries 0
Data
Simu

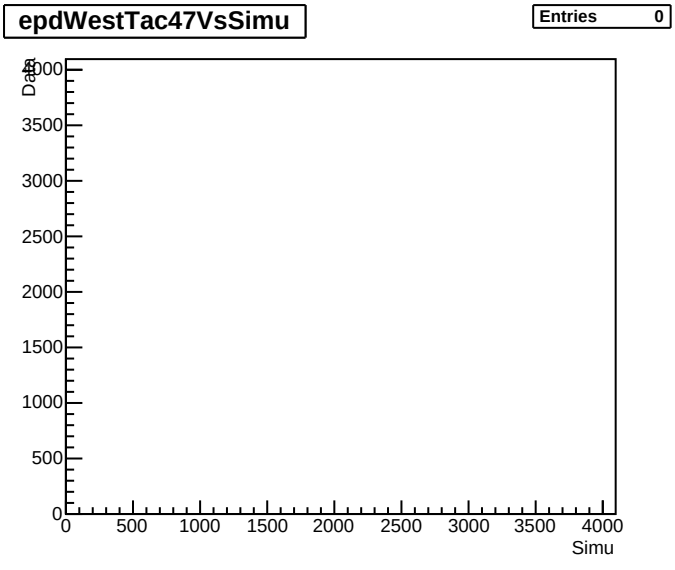

epdEastNHits
Entries 20042

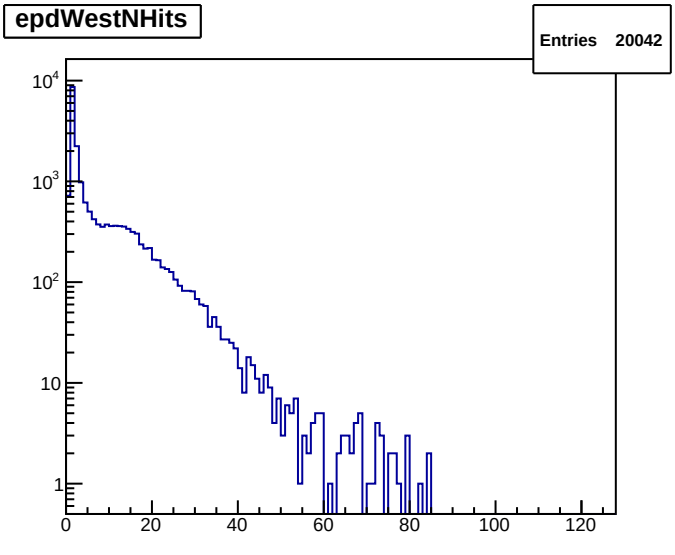

epdEastNHitsVsSimu
Entries 0
Data
Simu

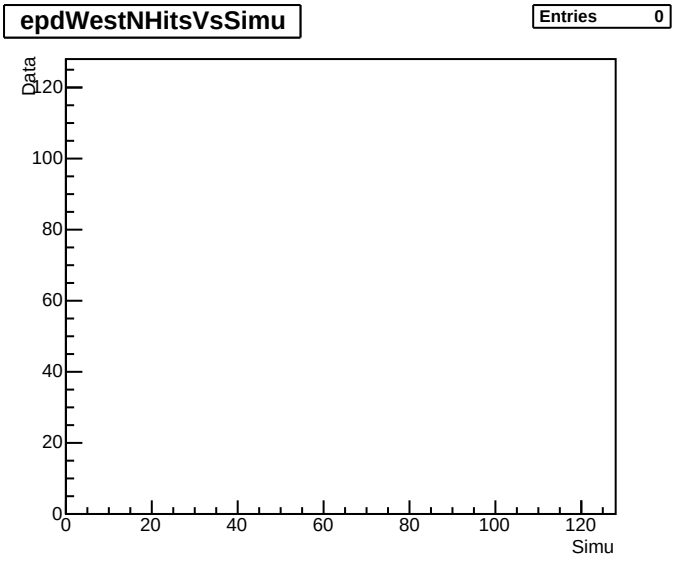

epdWestTac03
Entries 20042

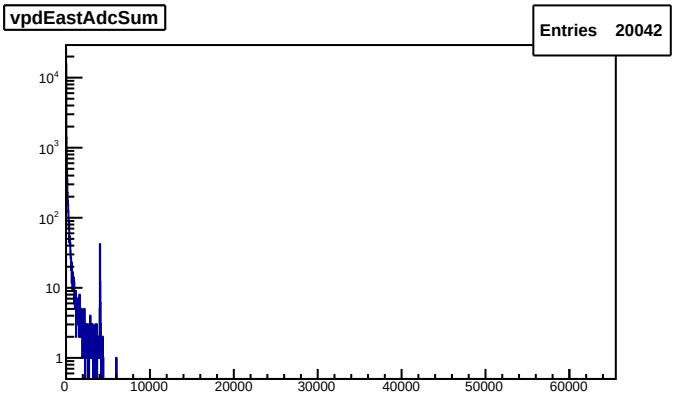

epdWestTac03VsSimu
Entries 0
Data
Simu

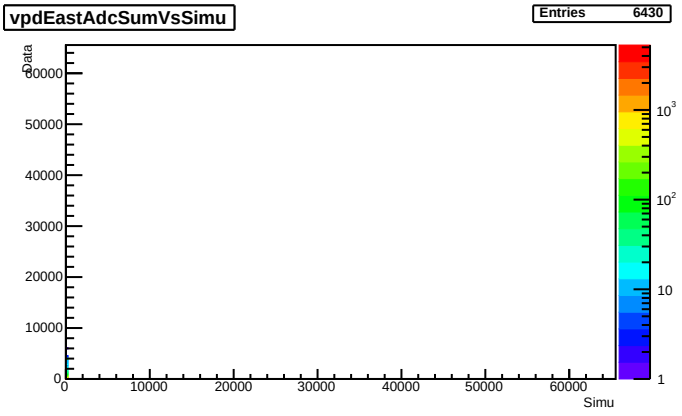

epdWestTac47
Entries 20042

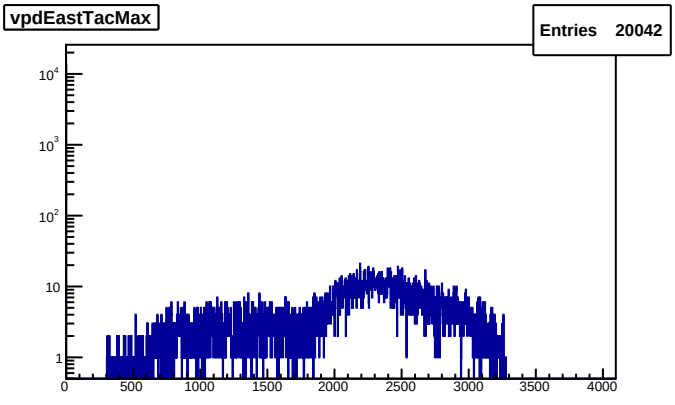

epdWestTac47VsSimu
Entries 0
Data
Simu

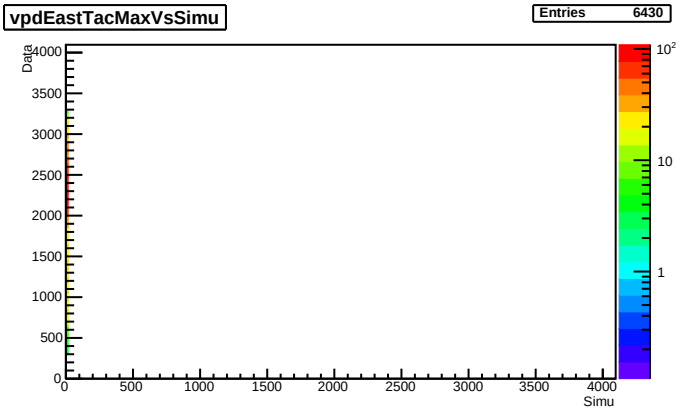

epdWestNHits
Entries 20042

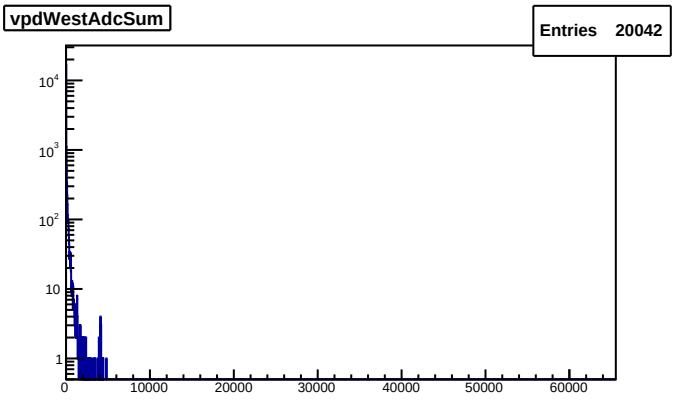

epdWestNHitsVsSimu
Entries 0
Data
Simu

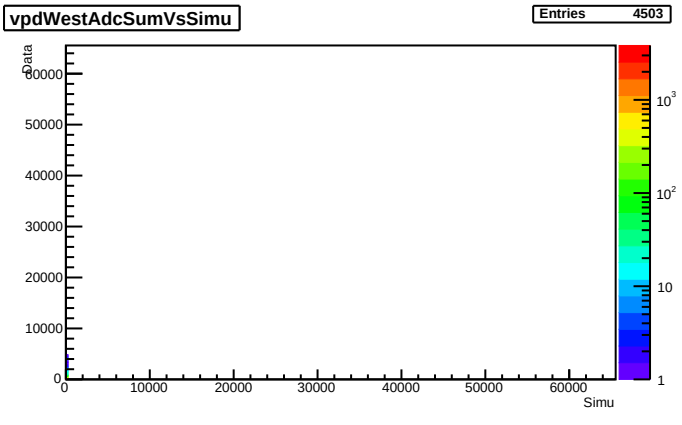

vpdEastAdcSum
Entries 20042

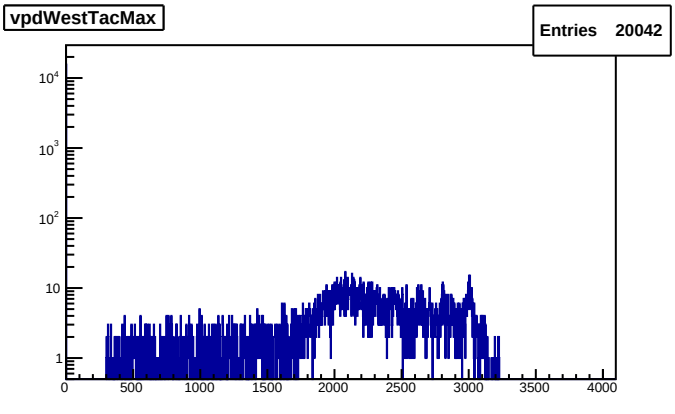

vpdEastAdcSumVsSimu
Entries 6430
Data
Simu

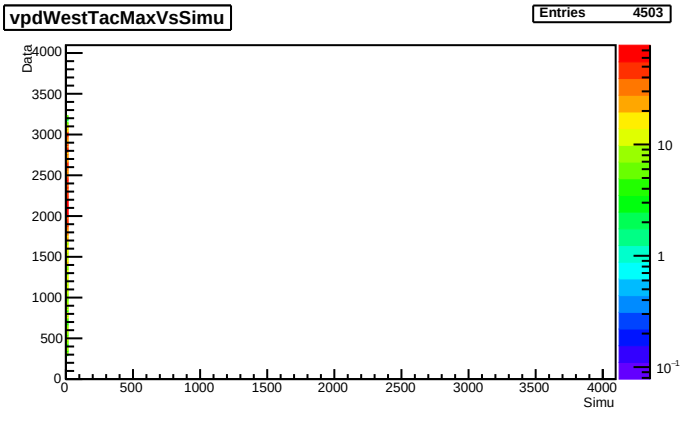

vpdEastTacMax
Entries 20042

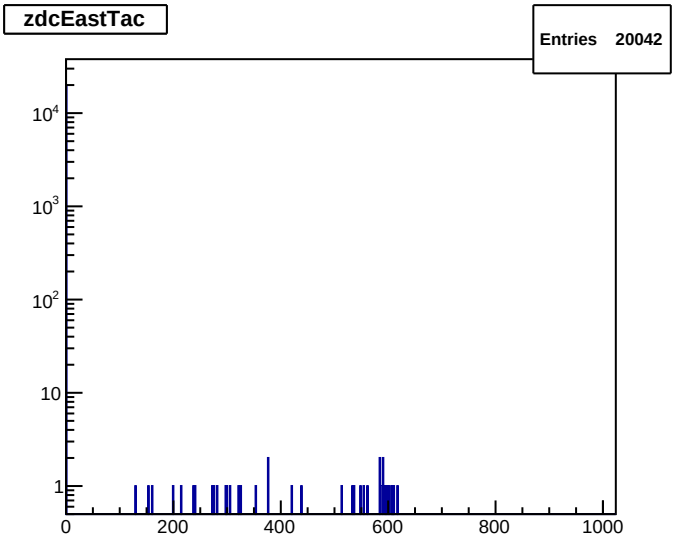

vpdEastTacMaxVsSimu
Entries 6430
Data
Simu

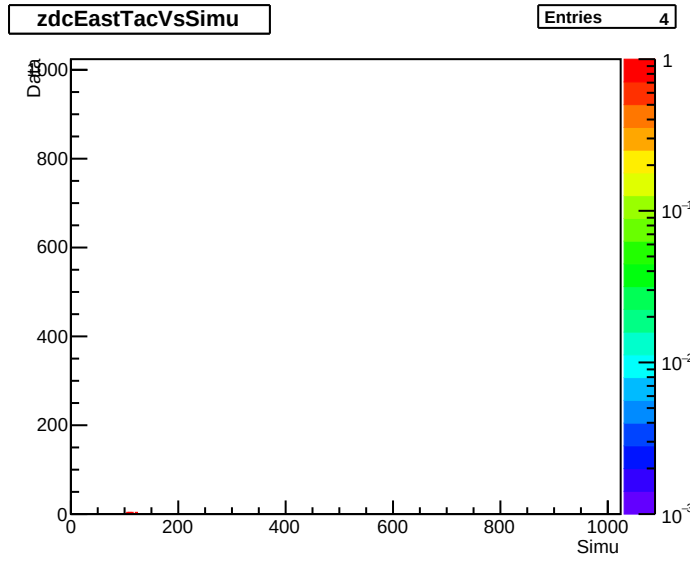

vpdWestAdcSum
Entries 20042

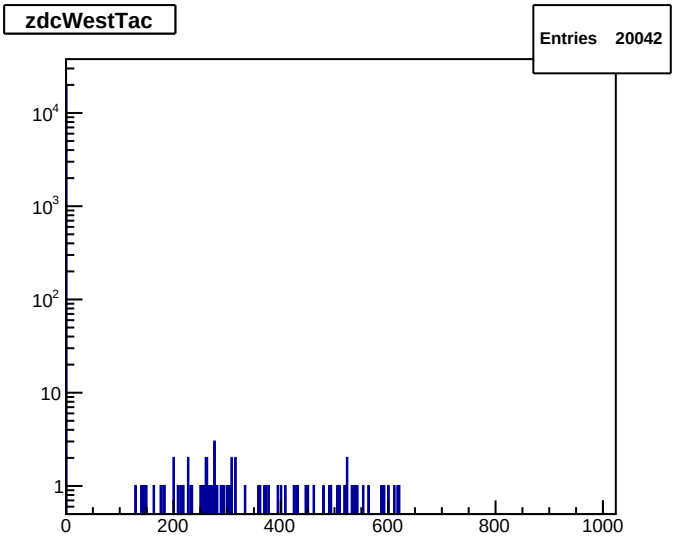

vpdWestAdcSumVsSimu
Entries 4503
Data
Simu

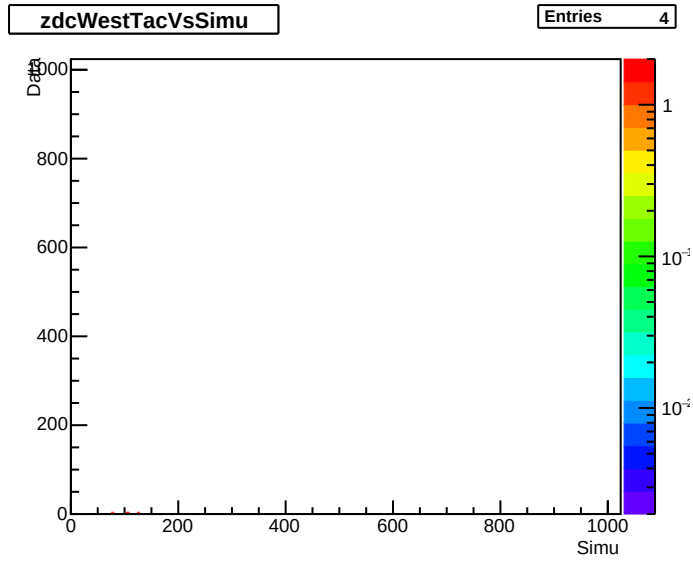

vpdWestTacMax
Entries 20042

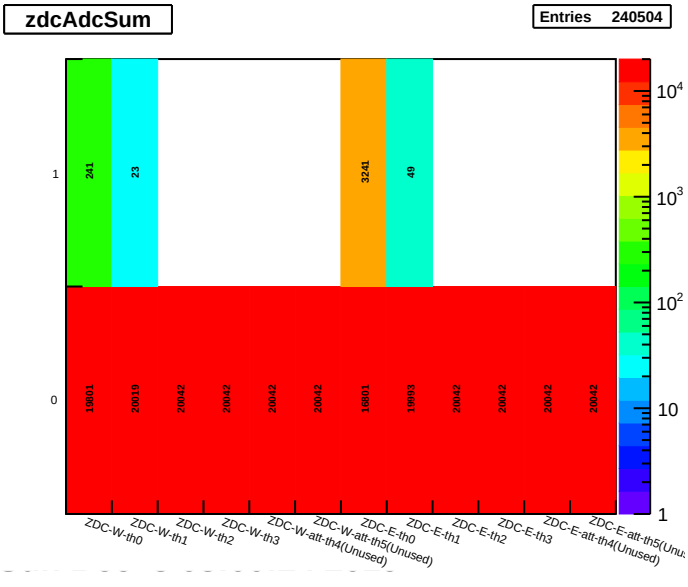

vpdWestTacMaxVsSimu
Entries 4503
Data
Simu

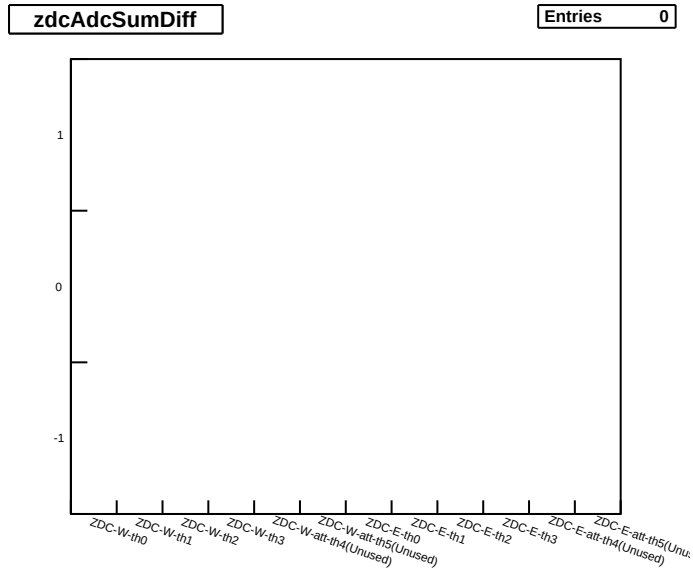

zdcEastTac
Entries 20042

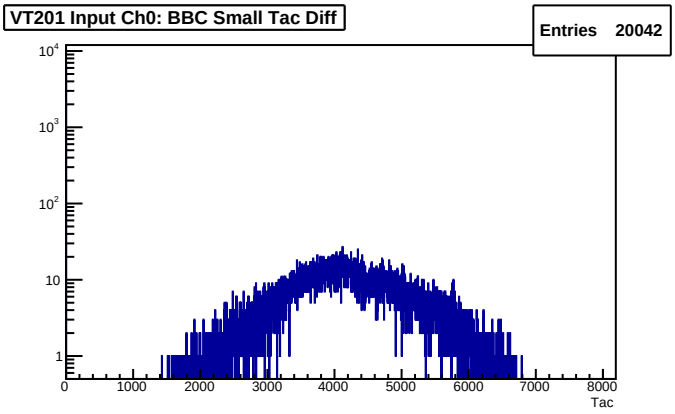

zdcEastTacVsSimu
Entries 4
Data
Simu

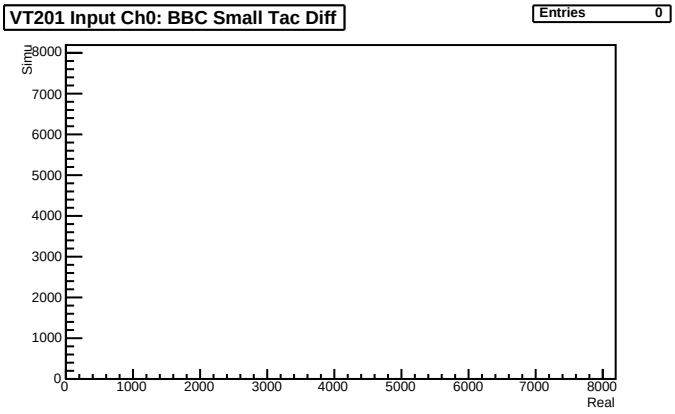

zdcWestTac
Entries 20042

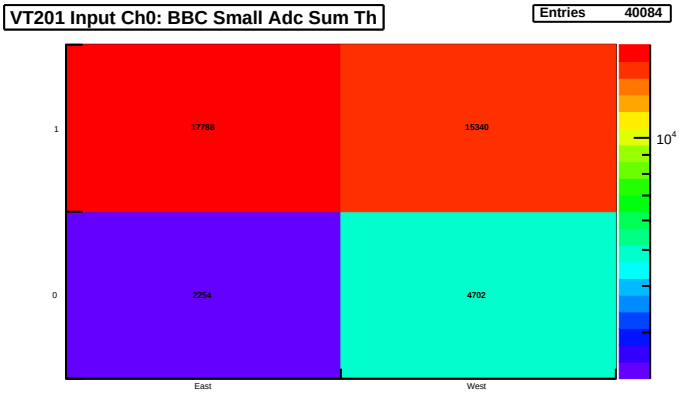

zdcWestTacVsSimu
Entries 4
Data
Simu

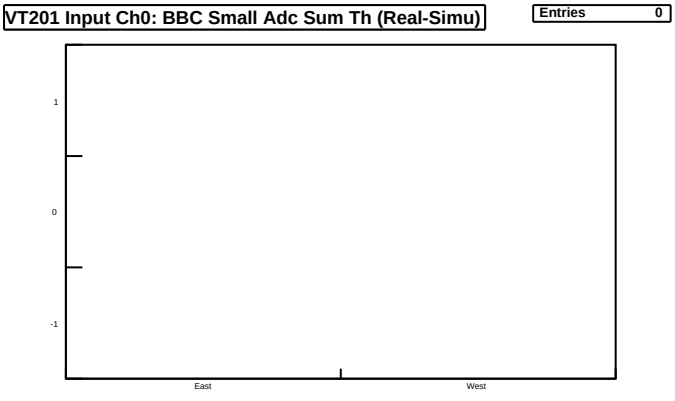

zdcAdcSum
Entries 240504
241
23
3241
49
19801
20019
20042
20042
20042
20042
16801
19993
20042
20042
20042
20042
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

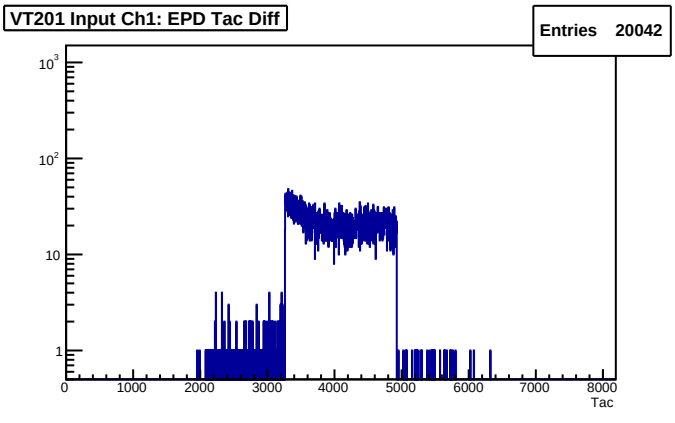

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

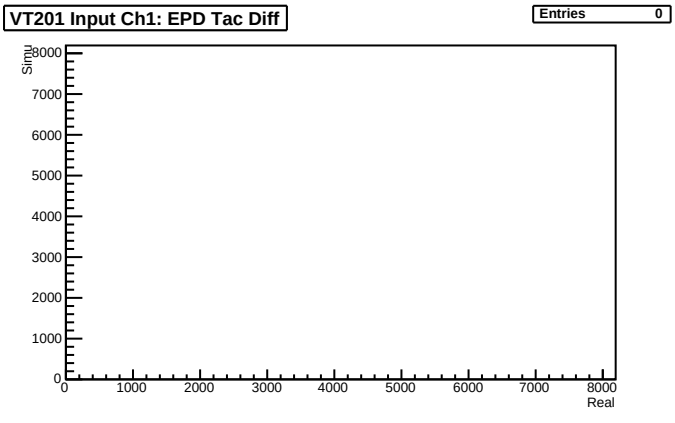

VT201 Input Ch0: BBC Small Tac Diff
Entries 20042
Tac

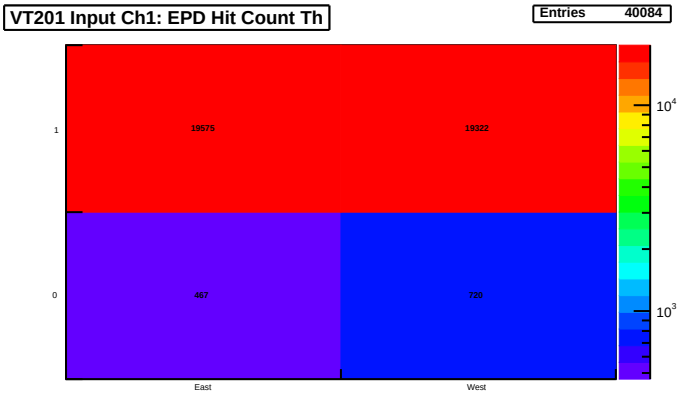

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

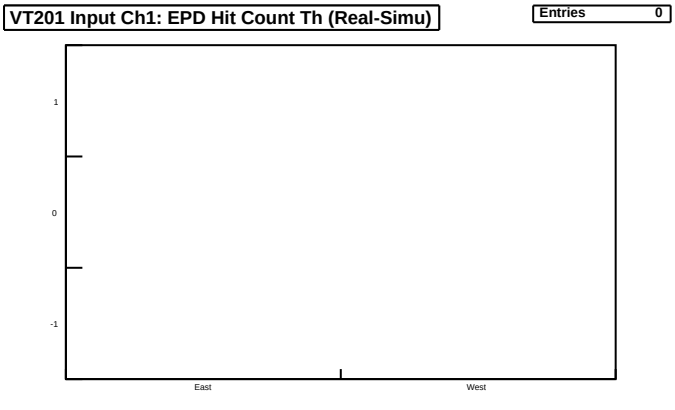

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 40084
17788
15340
2254
4702
East
West

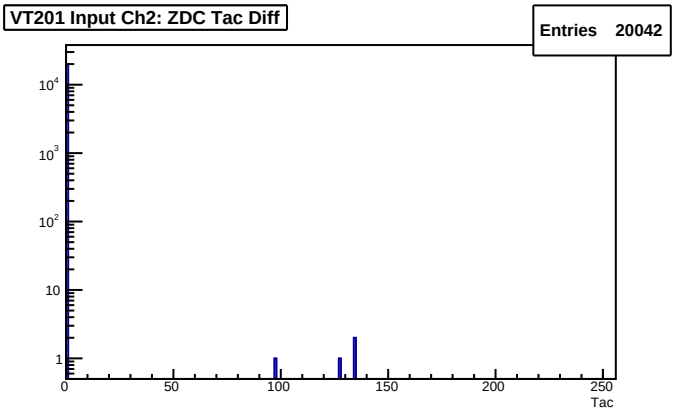

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

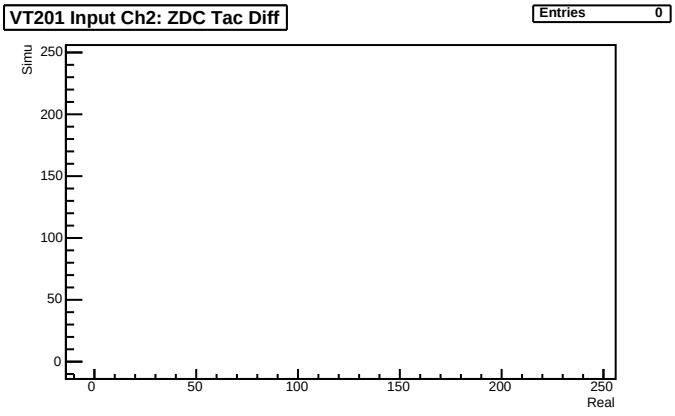

VT201 Input Ch1: EPD Tac Diff
Entries 20042
Tac

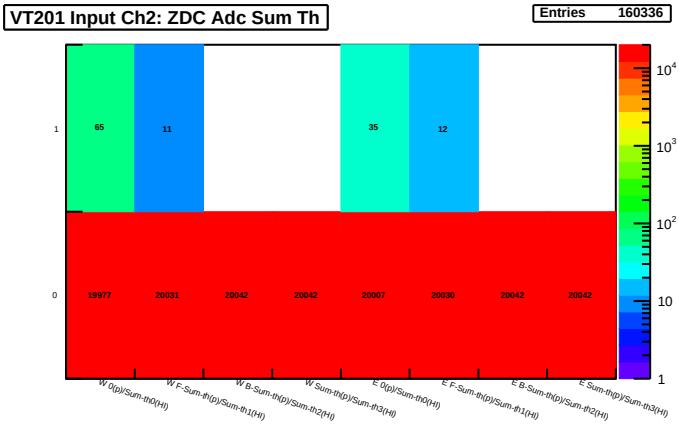

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

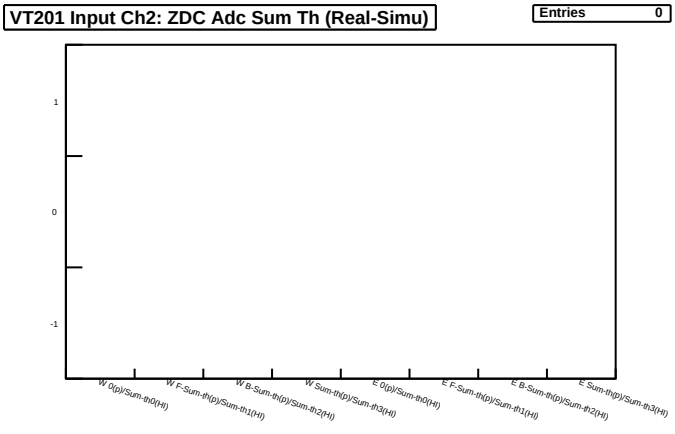

VT201 Input Ch1: EPD Hit Count Th
Entries 40084
19575
19322
467
720
East
West

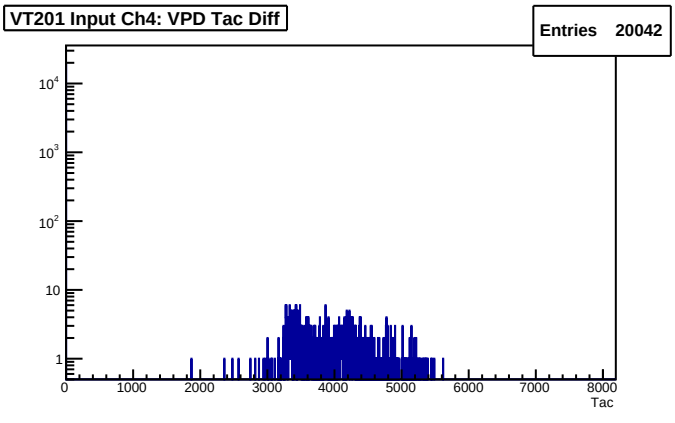

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

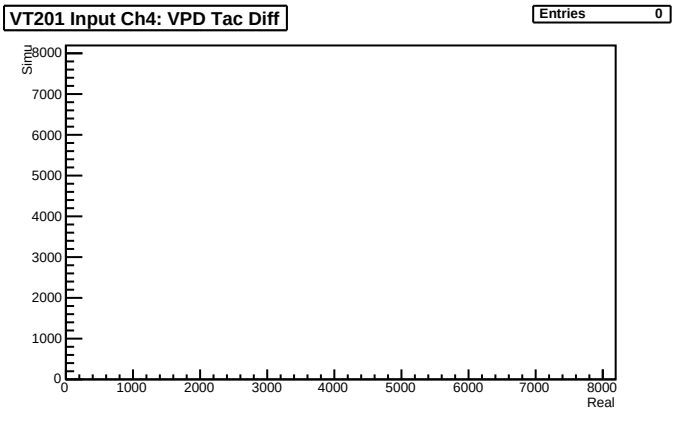

VT201 Input Ch2: ZDC Tac Diff
Entries 20042
Tac

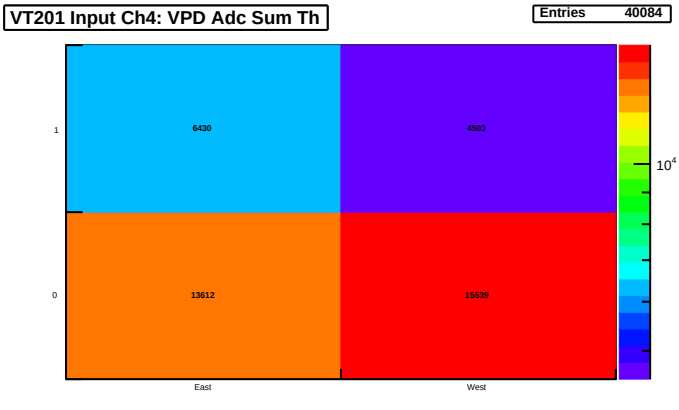

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

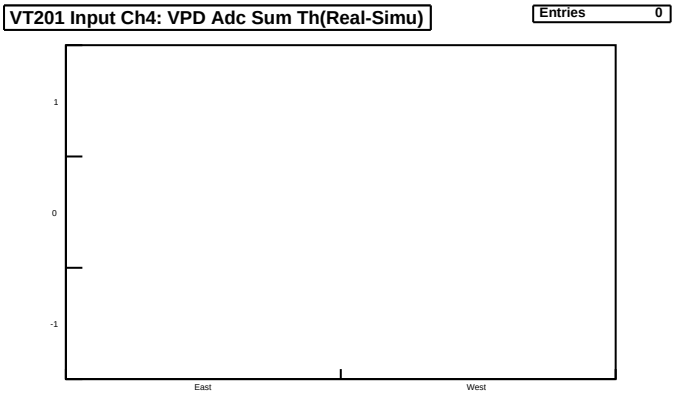

VT201 Input Ch2: ZDC Adc Sum Th
Entries 160336
65
11
35
12
19977
20031
20042
20042
20007
20030
20042
20042
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

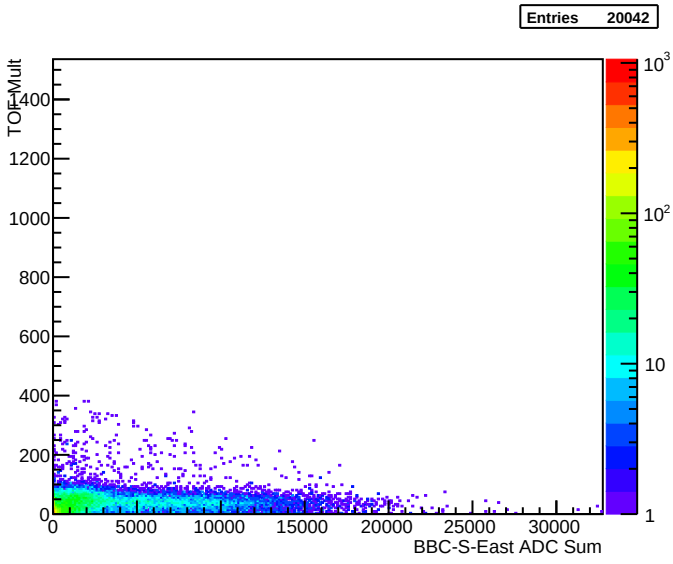

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

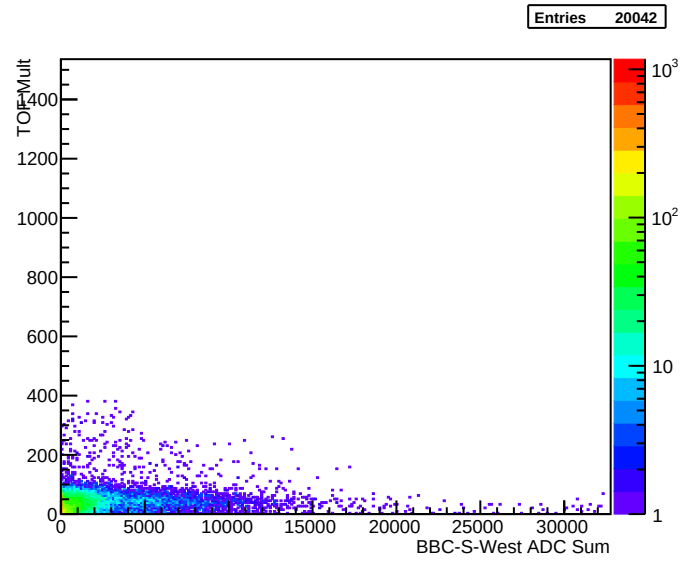

VT201 Input Ch4: VPD Tac Diff
Entries 20042
Tac

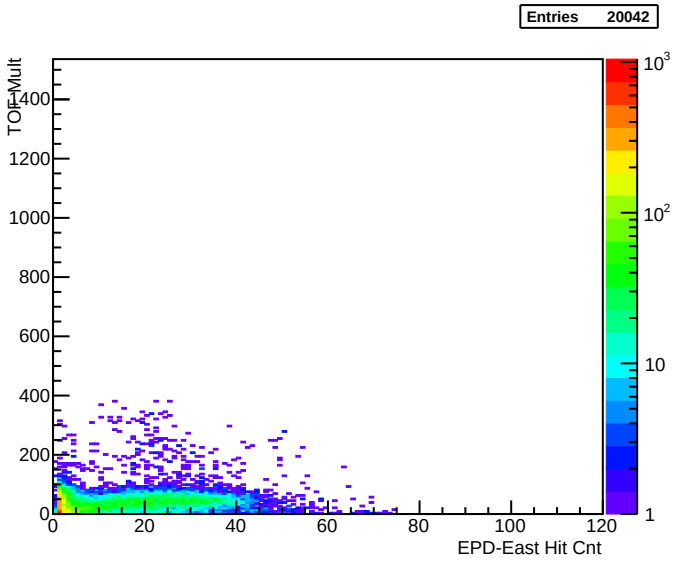

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

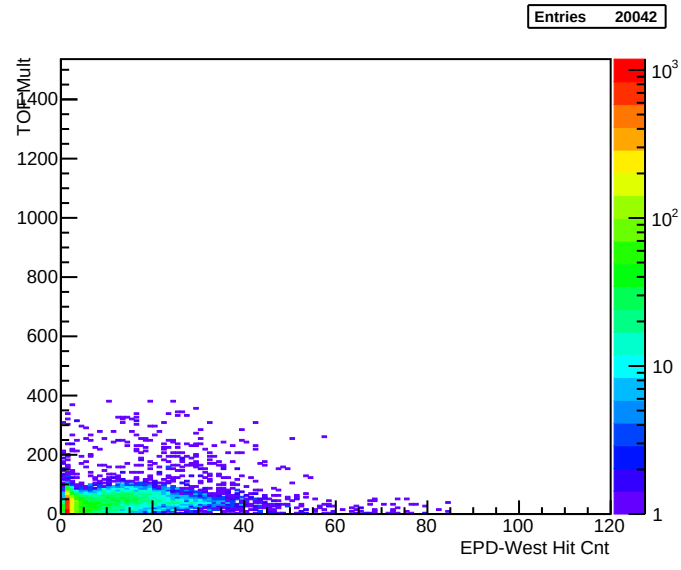

VT201 Input Ch4: VPD Adc Sum Th
Entries 40084
6430
4503
13612
15539
East
West

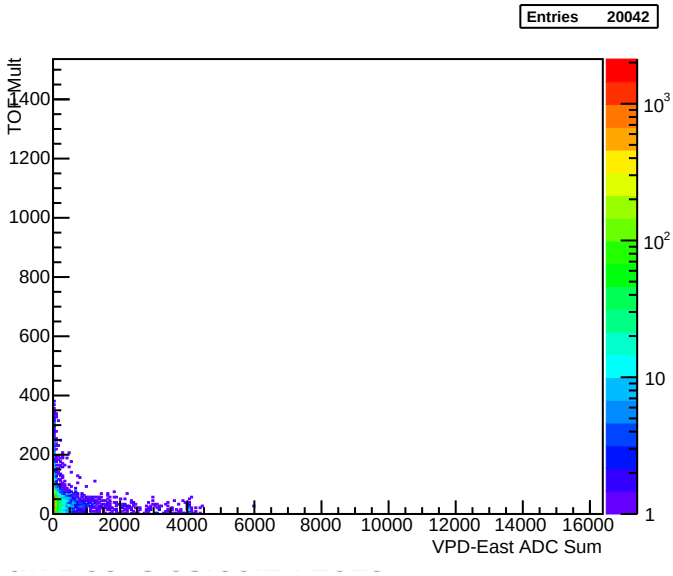

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

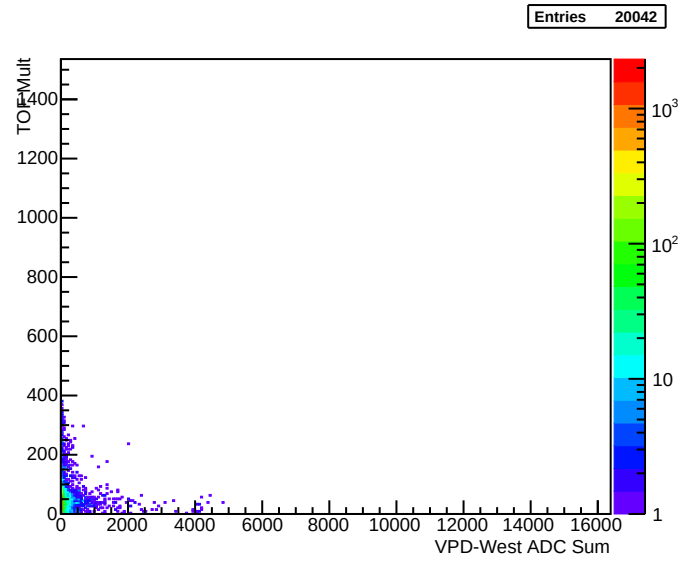

Entries 20042
TOF-Mult
BBC-S-East ADC Sum

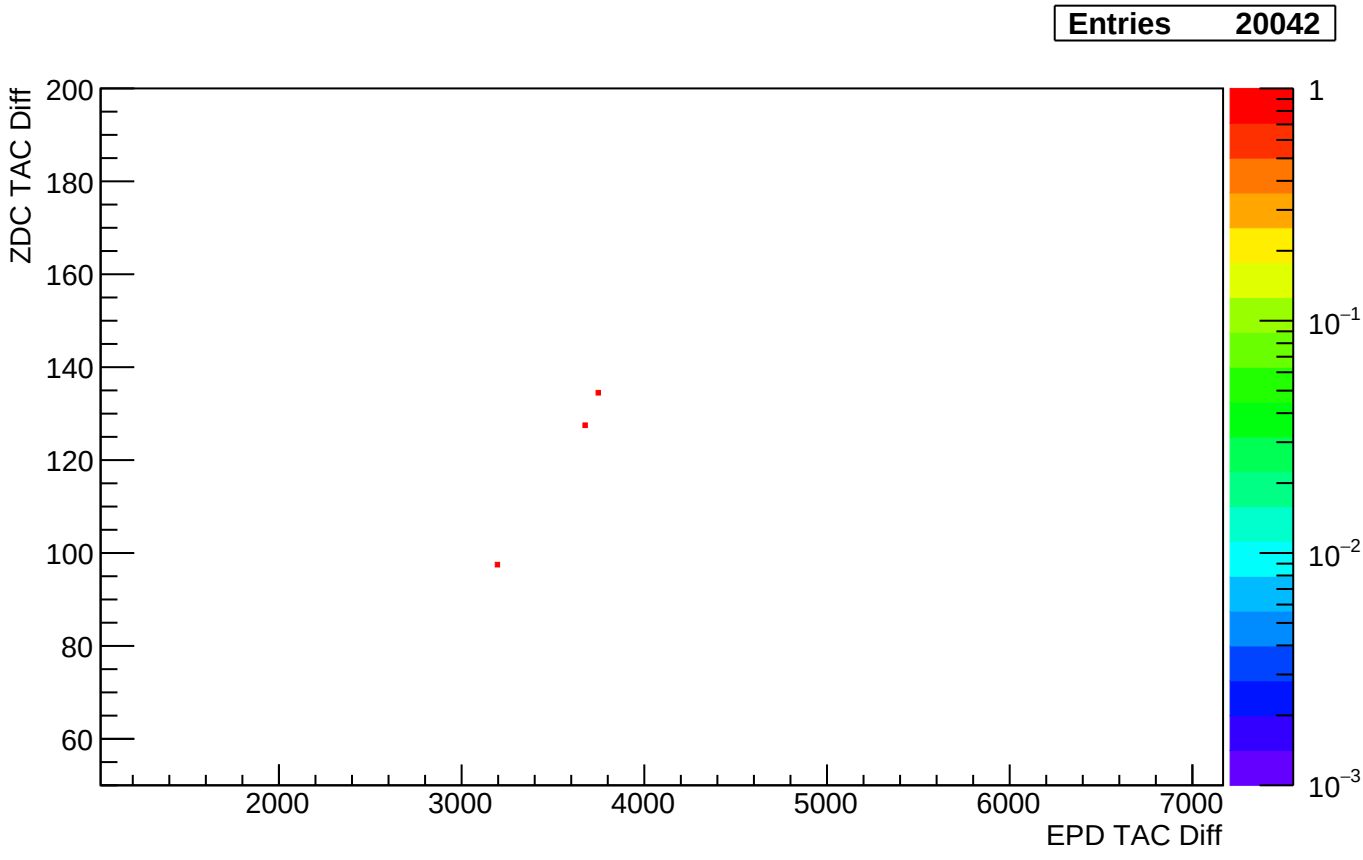

Entries 20042
TOF-Mult
BBC-S-West ADC Sum

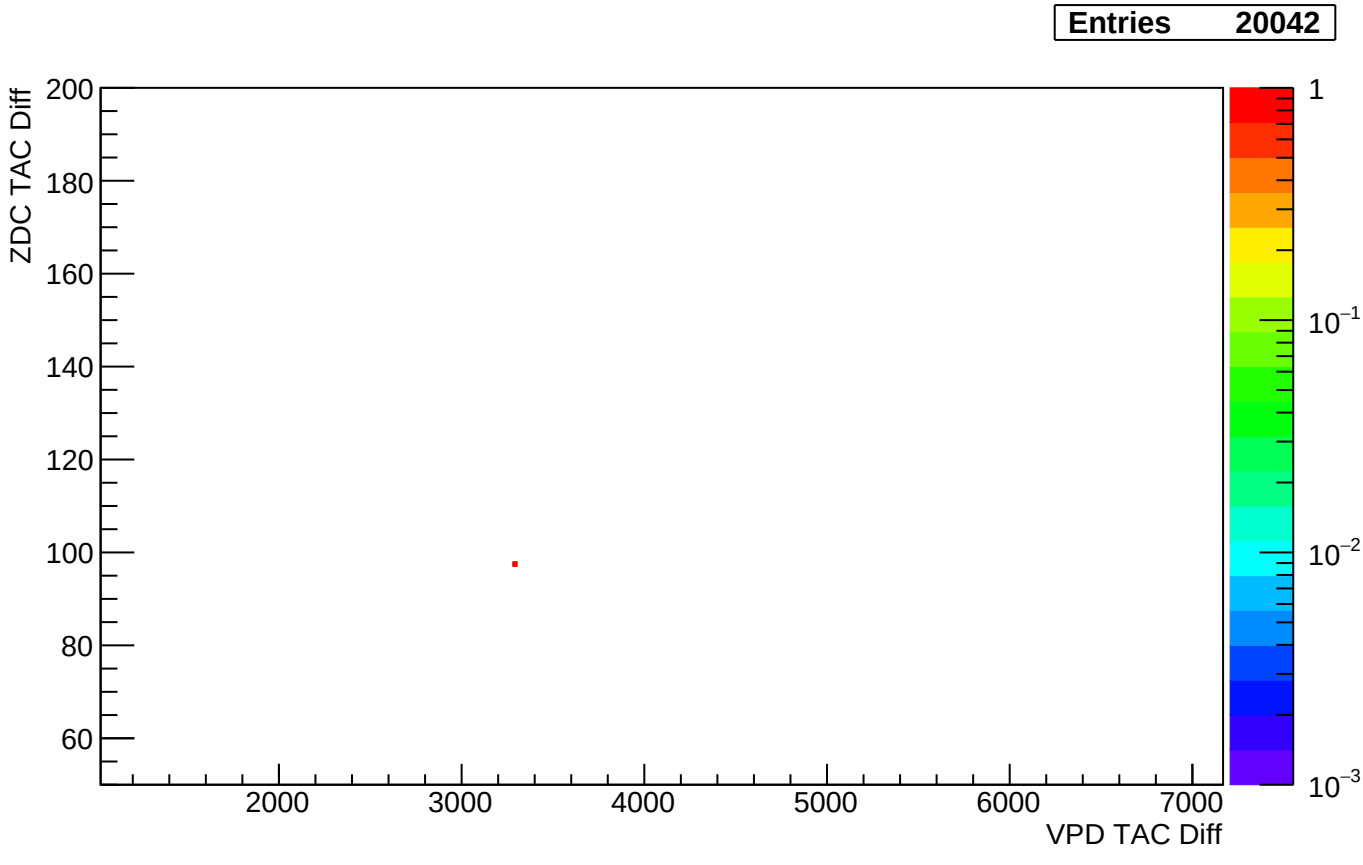

Entries 20042
TOF-Mult
EPD-East Hit Cnt

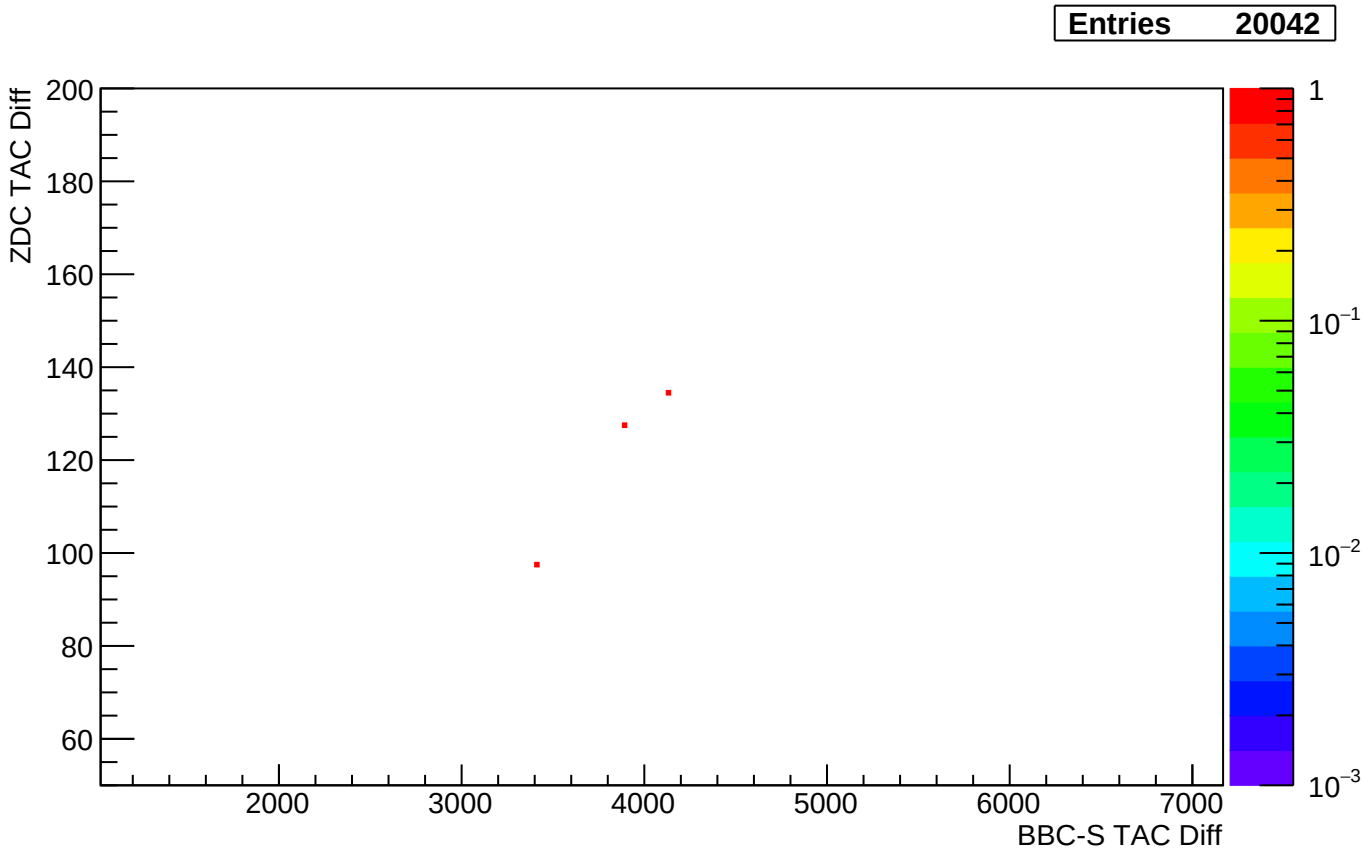

Entries 20042
TOF-Mult
EPD-West Hit Cnt

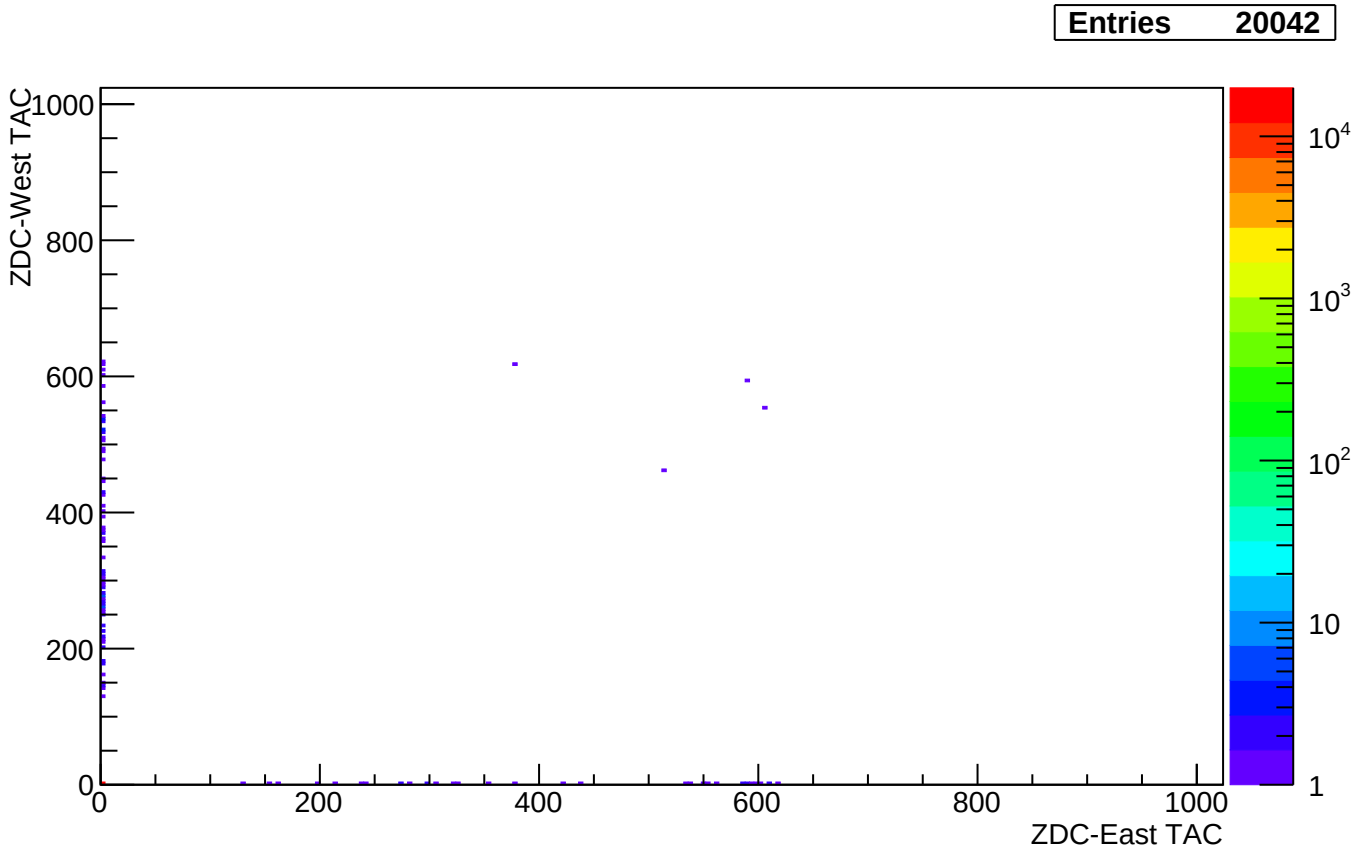

Entries 20042
TOF-Mult
VPD-East ADC Sum

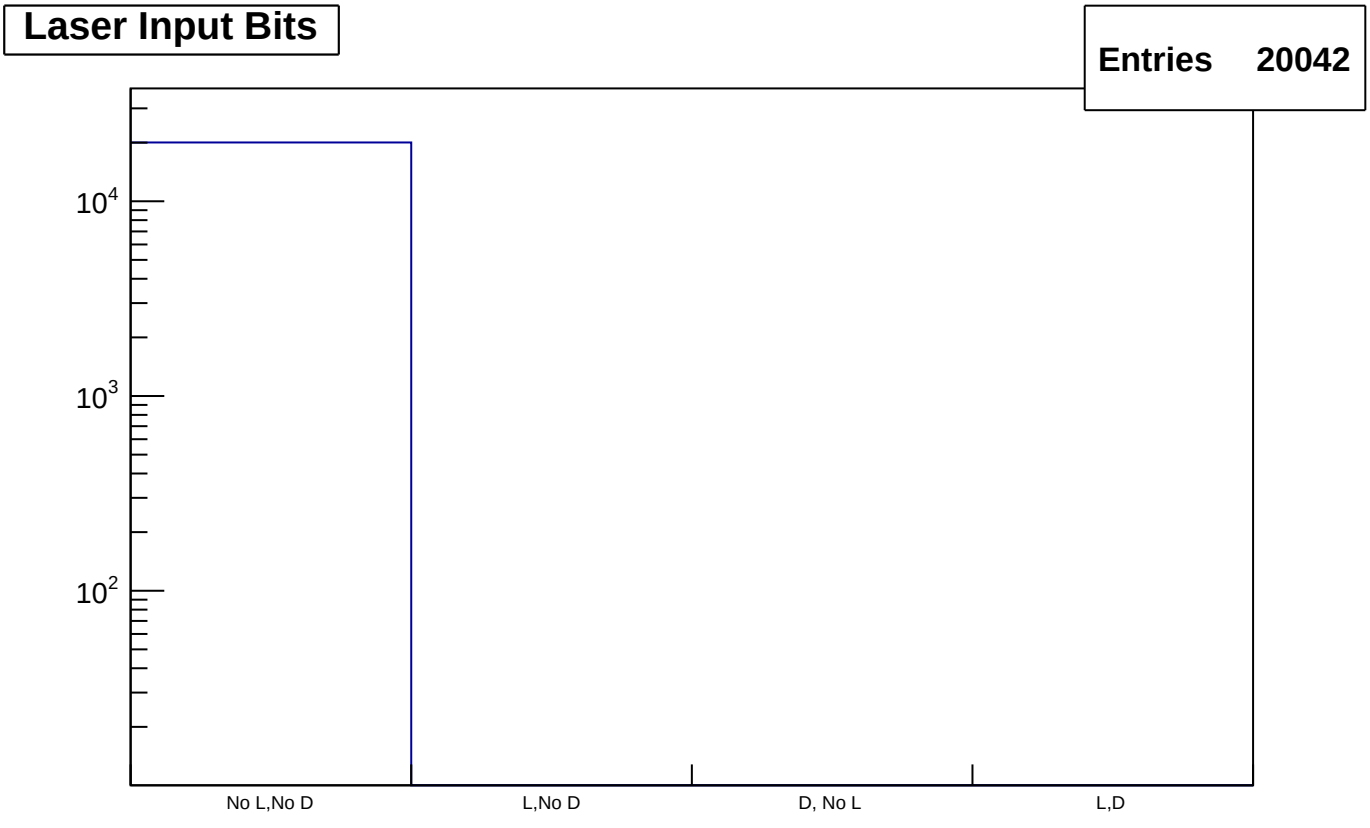

Entries 20042
TOF-Mult
VPD-West ADC Sum

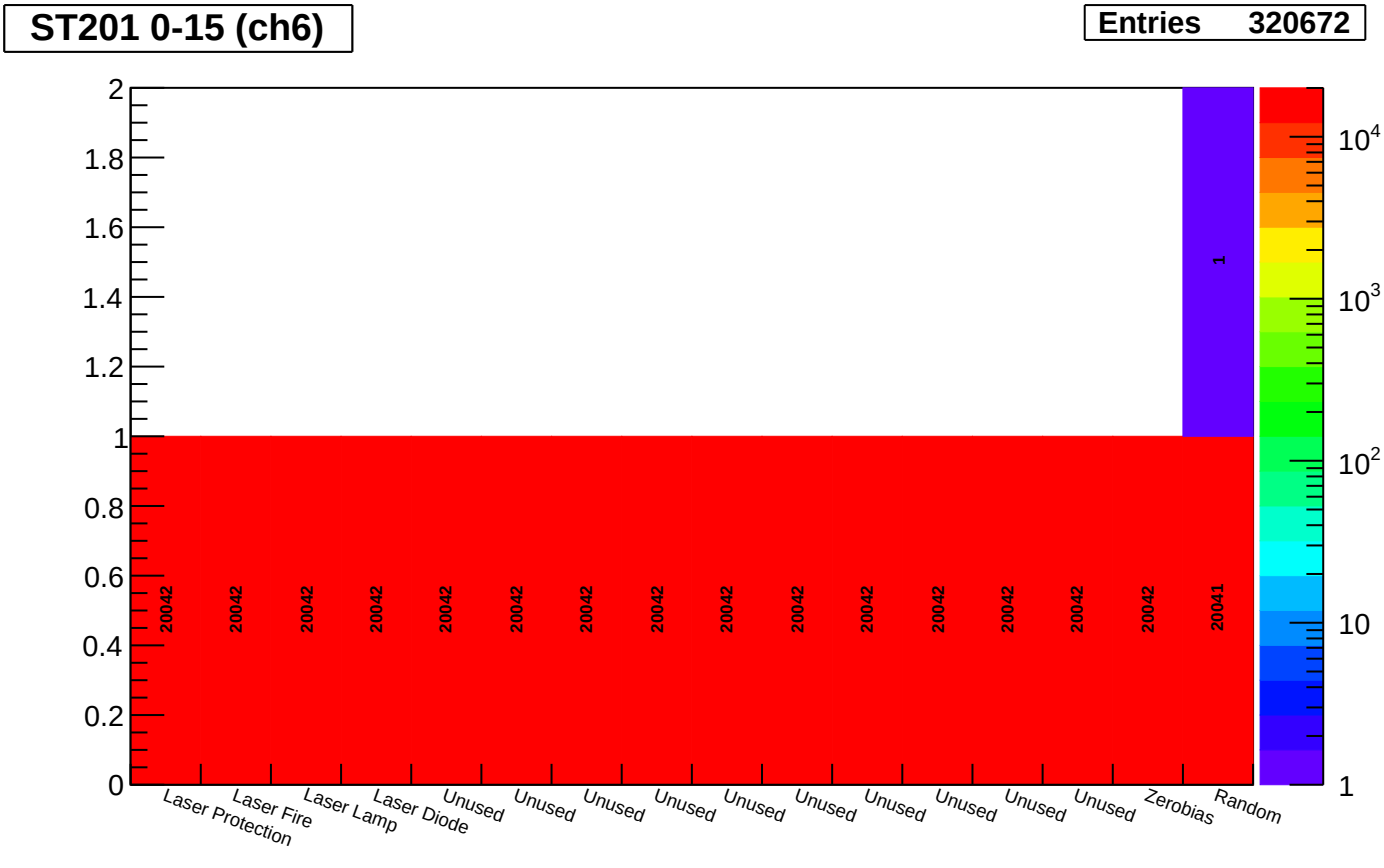

Entries 20042
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

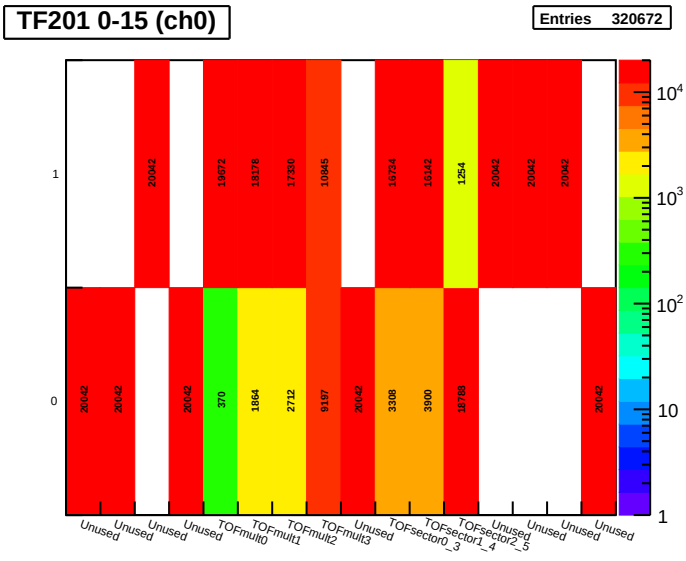

Entries 20042
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

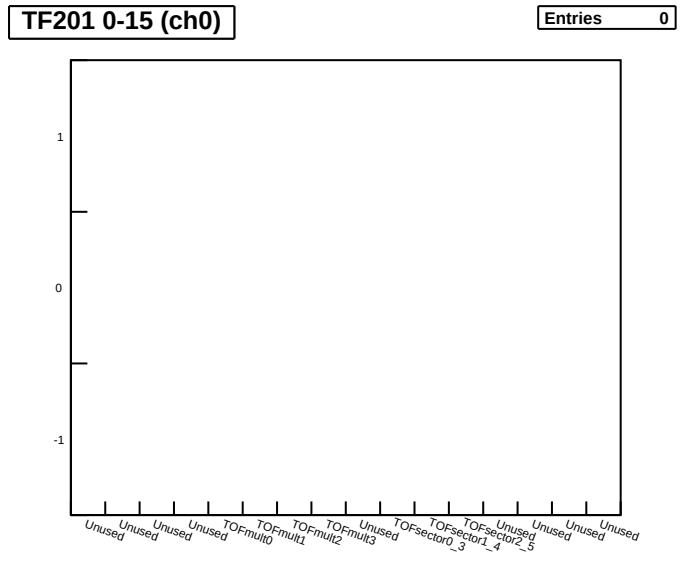

Entries 20042
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

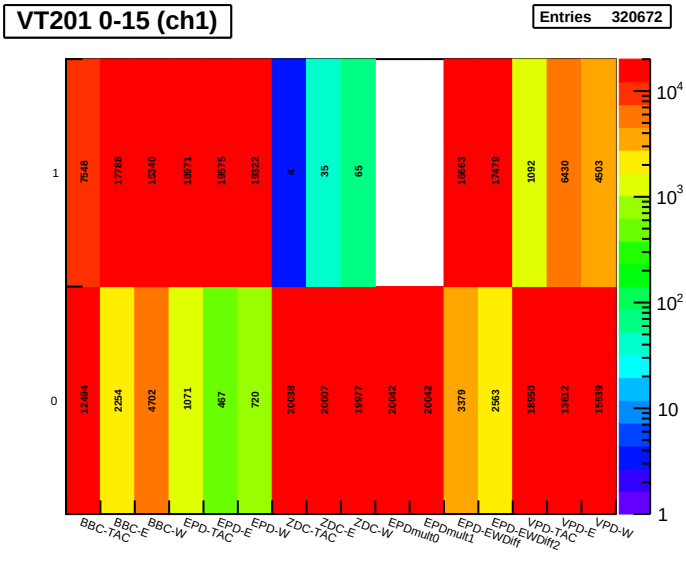

Entries 20042
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

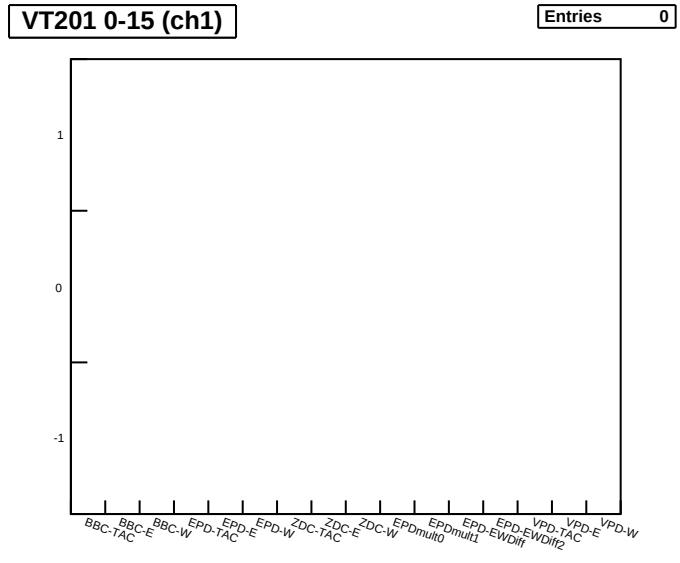

Laser Input Bits
Entries 20042
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

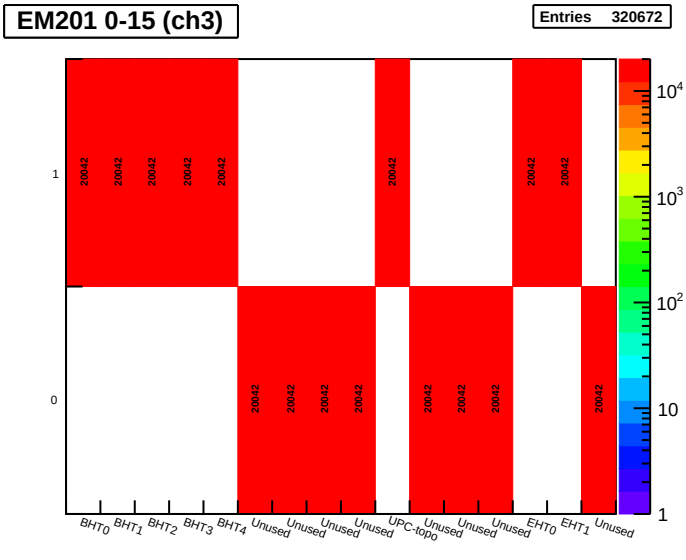

ST201 0-15 (ch6)
Entries 320672
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
20042
20041
1
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

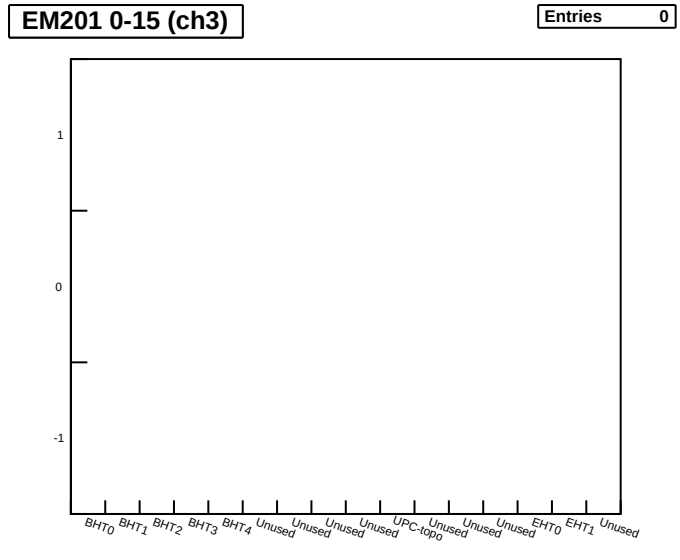

TF201 0-15 (ch0)
Entries 320672
1
0
20042 19672 18178 17330 10845 16734 16142 1254 20042 20042 20042
20042 20042 20042 370 1864 2712 9197 20042 3308 3900 18788 20042
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^4 10^3 10^2 10 1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused


VT201 0-15 (ch1)
Entries 320672
1
0
7548 17788 15340 18971 19575 18322 4 35 65 16683 17479 1092 6430 4503
12494 2254 4702 1071 467 720 20038 20007 19977 20042 20042 3379 2563 18950 13612 15539
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^4 10^3 10^2 10 1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 320672
1
0
20042 20042 20042 20042 20042 20042 20042 20042 20042
20042 20042 20042 20042 20042 20042 20042 20042
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^4 10^3 10^2 10 1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused