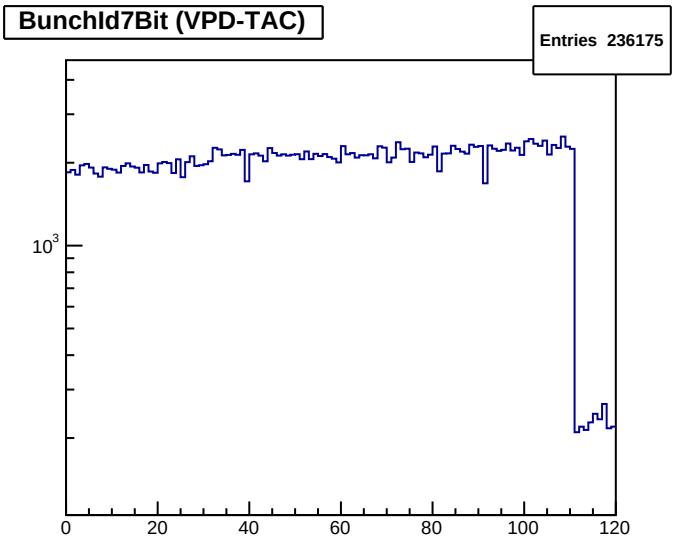
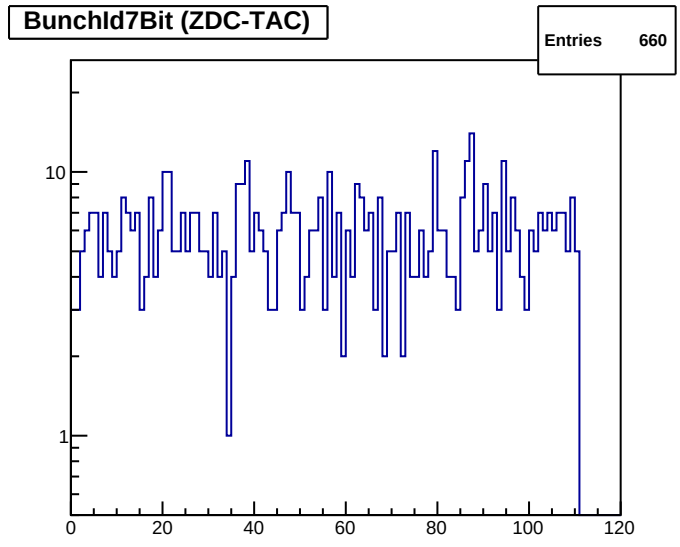
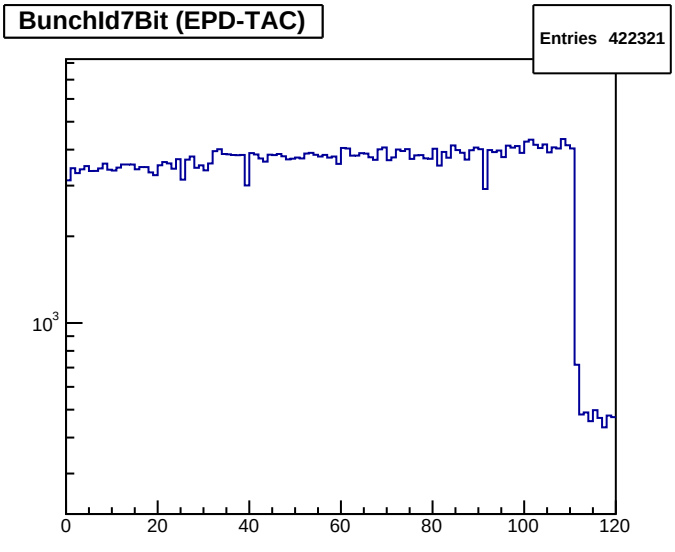
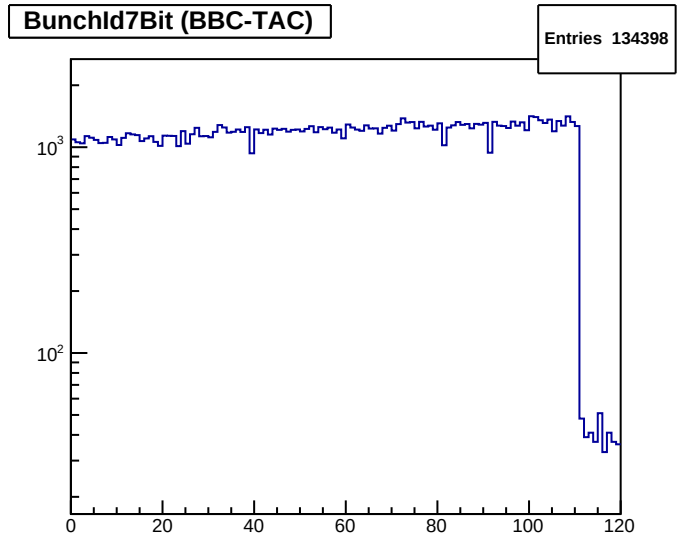
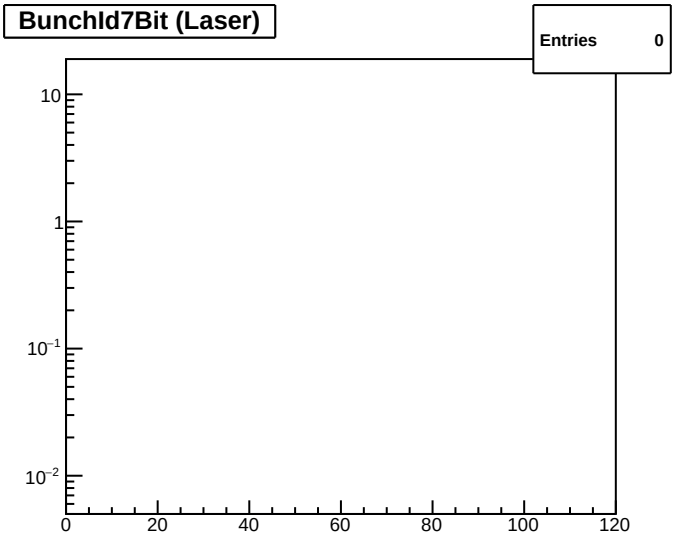
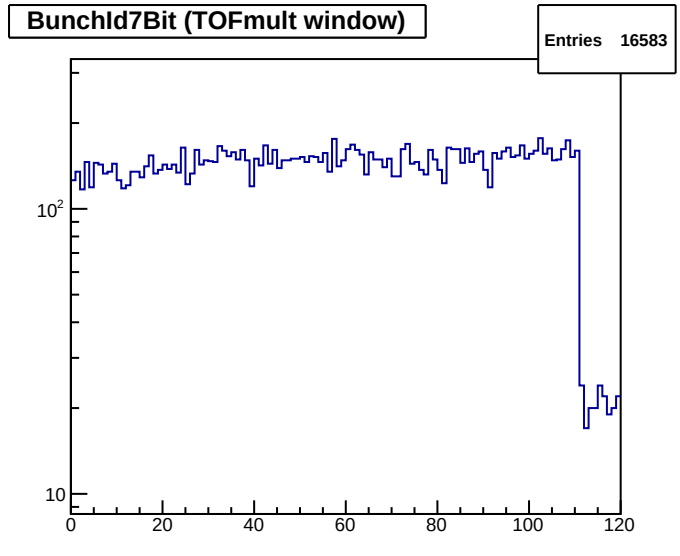

BunchId7Bit (VPD-TAC)
Entries 236175
10^3
0 20 40 60 80 100 120

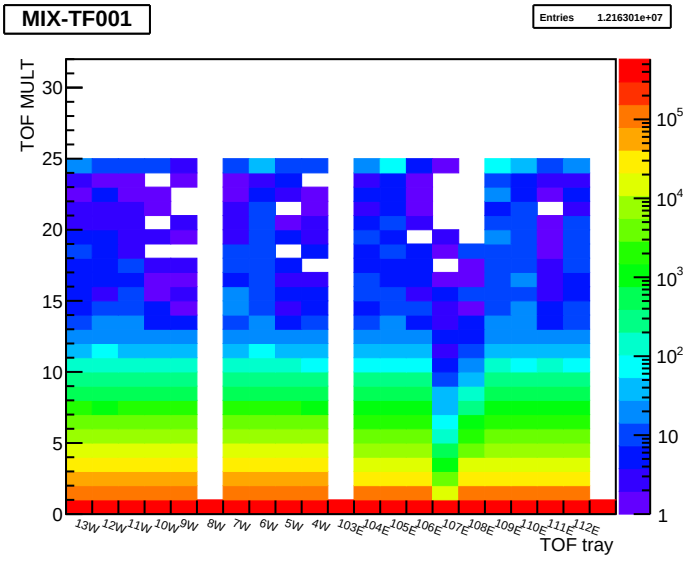

BunchId7Bit (ZDC-TAC)
Entries 660
10
1
0 20 40 60 80 100 120

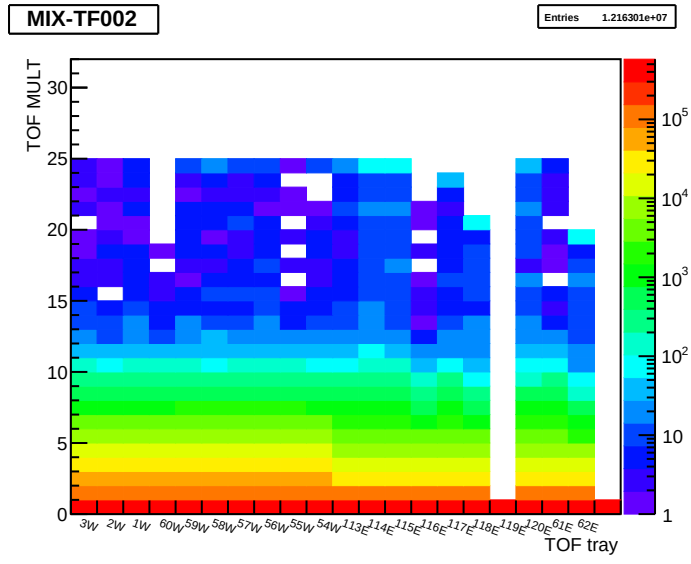

BunchId7Bit (EPD-TAC)
Entries 422321
10^3
0 20 40 60 80 100 120

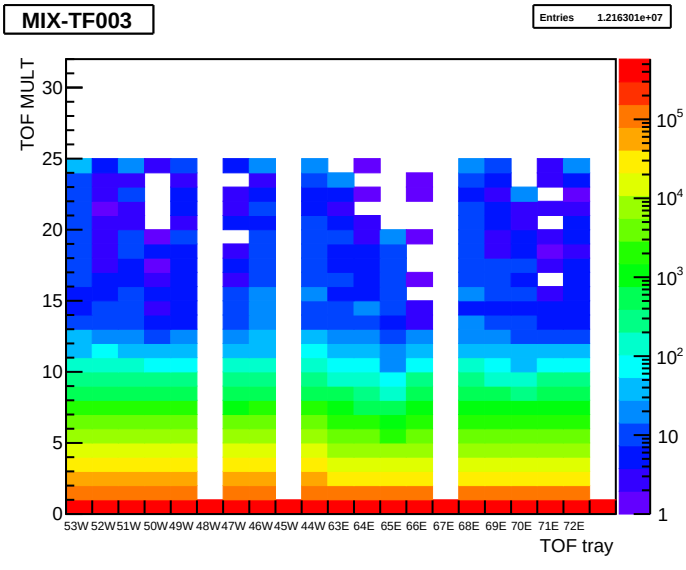

BunchId7Bit (BBC-TAC)
Entries 134398
10^3
10^2
0 20 40 60 80 100 120

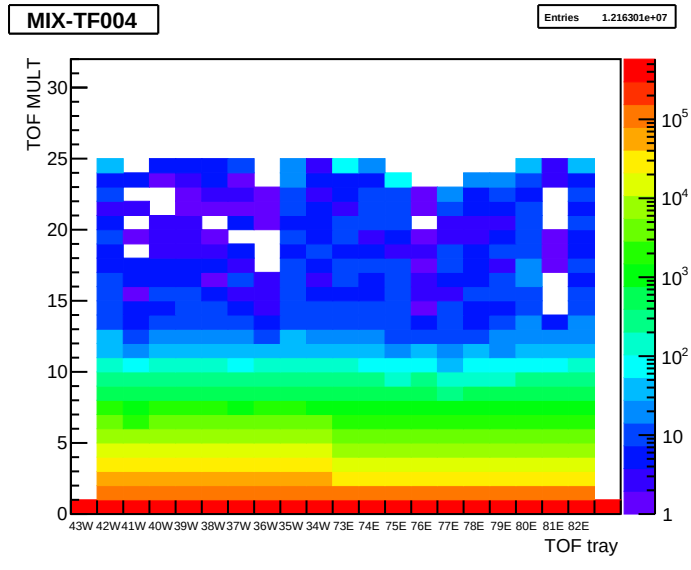

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

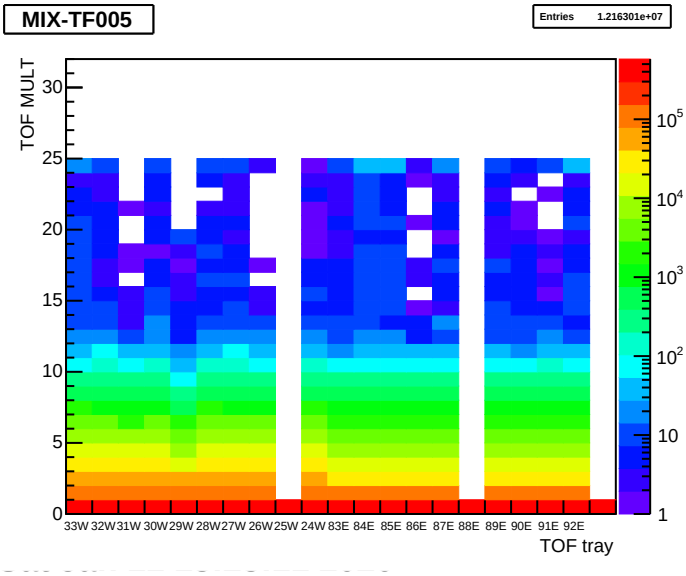

BunchId7Bit (TOFmult window)
Entries 16583
10^2
10
0 20 40 60 80 100 120

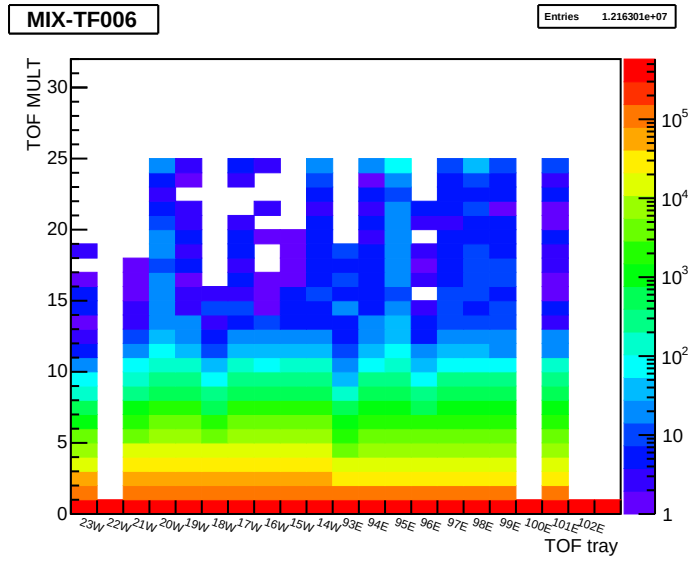

MIX-TF001
Entries 1.216301e+07
TOF MULT
TOF tray

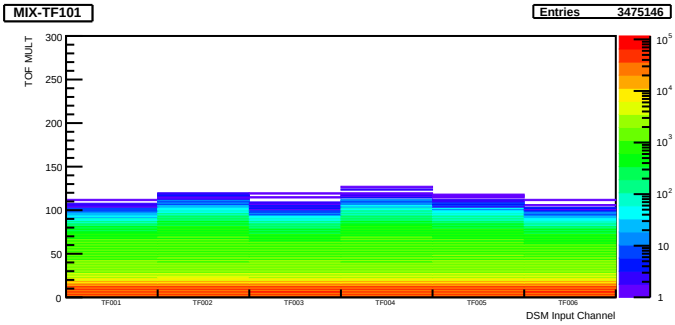

MIX-TF002
Entries 1.216301e+07
TOF MULT
TOF tray

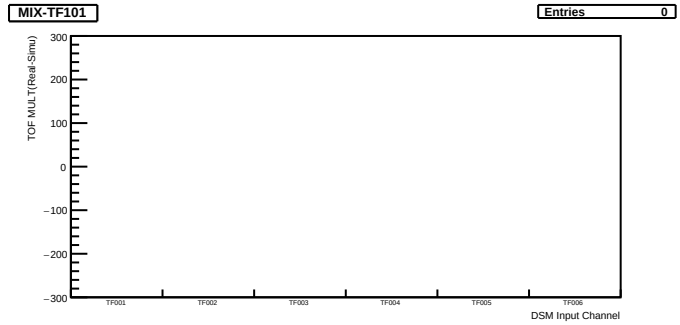

MIX-TF003
Entries 1.216301e+07
TOF MULT
TOF tray

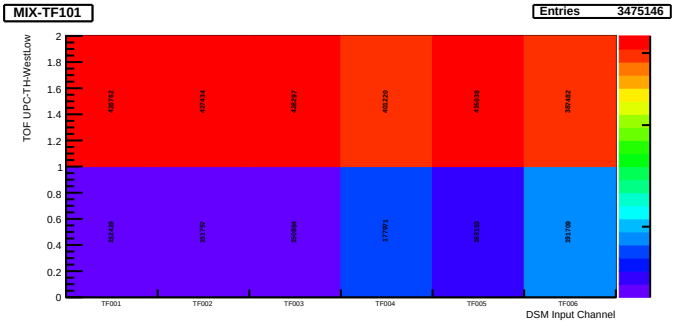

MIX-TF004
Entries 1.216301e+07
TOF MULT
TOF tray

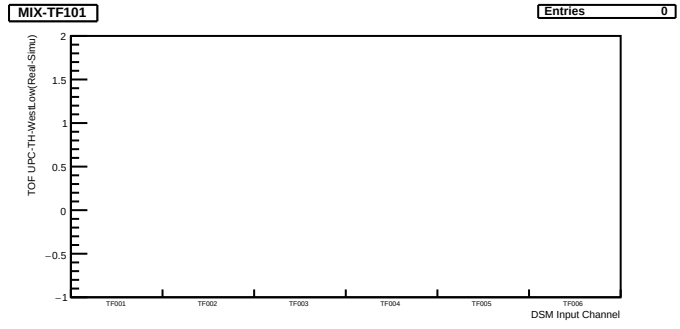

MIX-TF005
Entries 1.216301e+07
TOF MULT
TOF tray

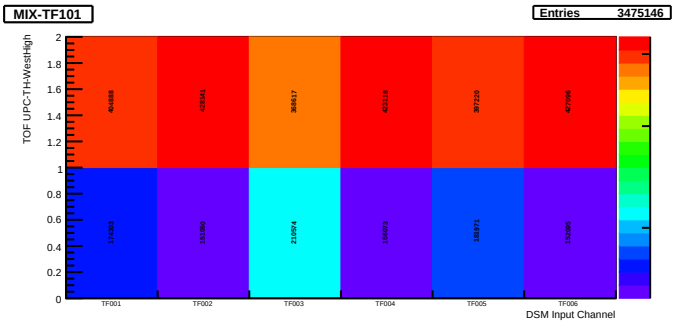

MIX-TF006
Entries 1.216301e+07
TOF MULT
TOF tray

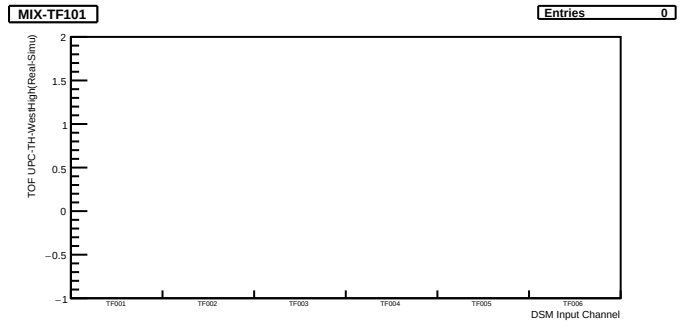

MIX-TF101
Entries 3475146
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

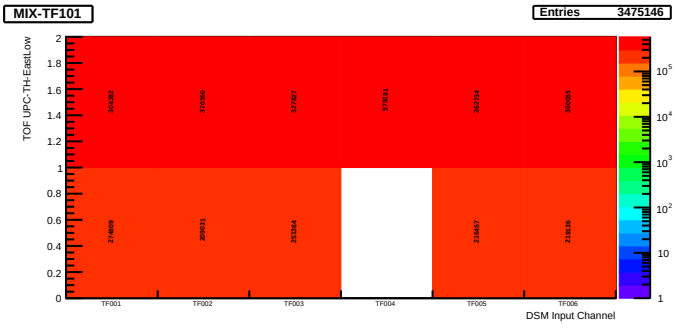

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

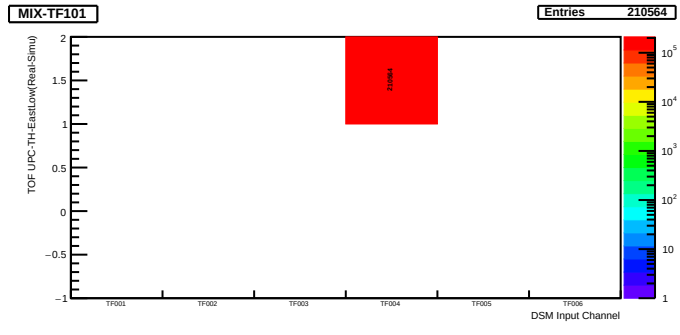

MIX-TF101
Entries 3475146
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

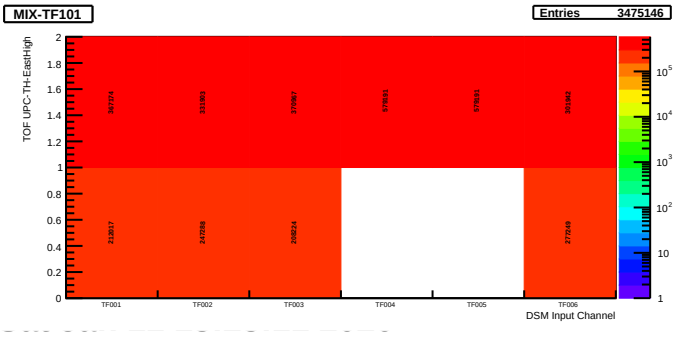

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

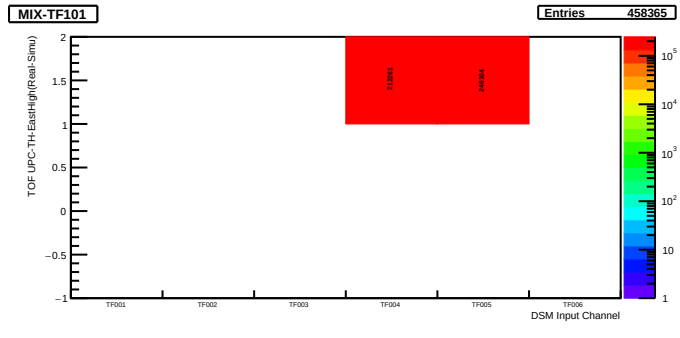

MIX-TF101
Entries 3475146
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

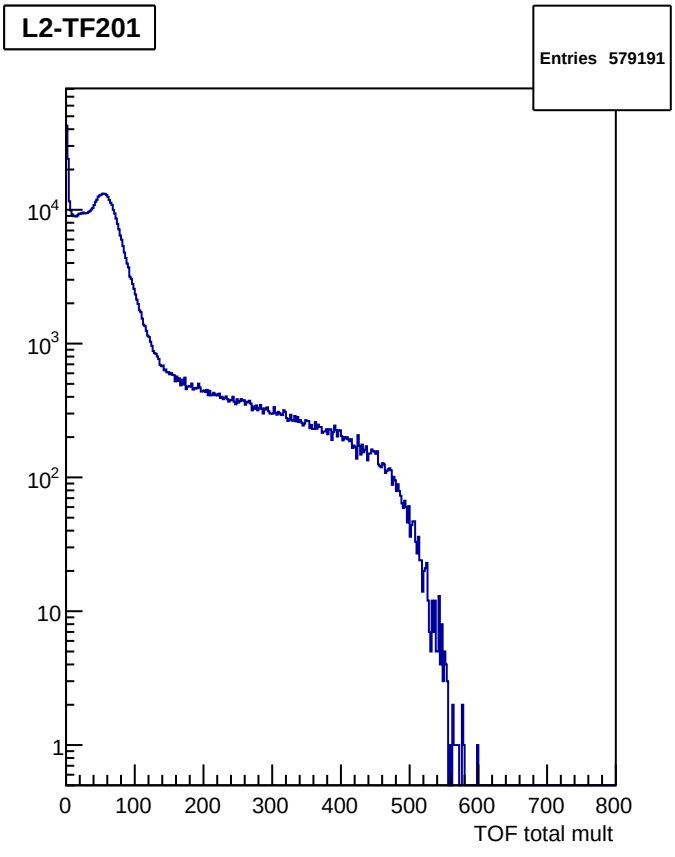

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

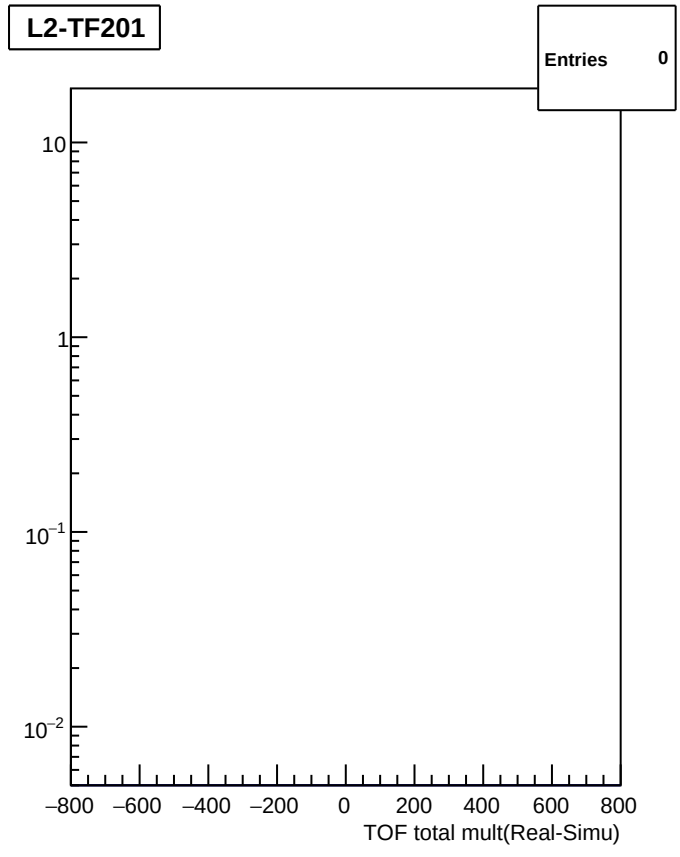

MIX-TF101
Entries 3475146
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

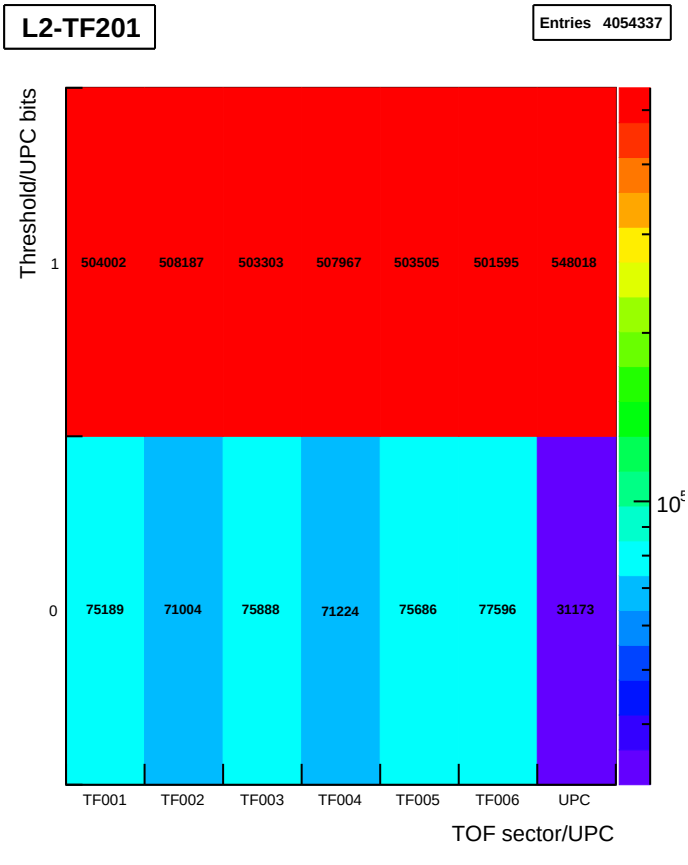

MIX-TF101
Entries 210564
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

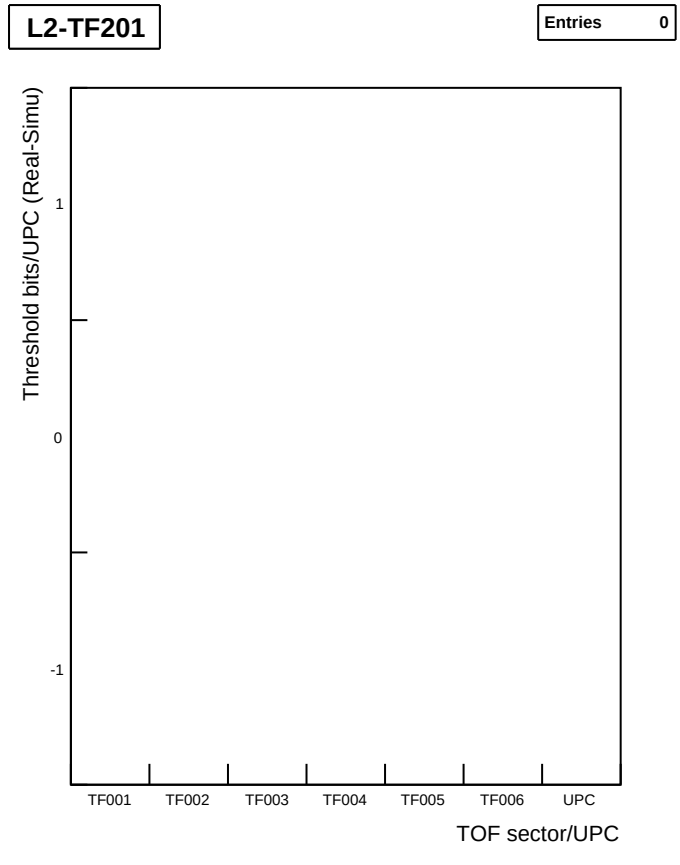

MIX-TF101
Entries 3475146
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

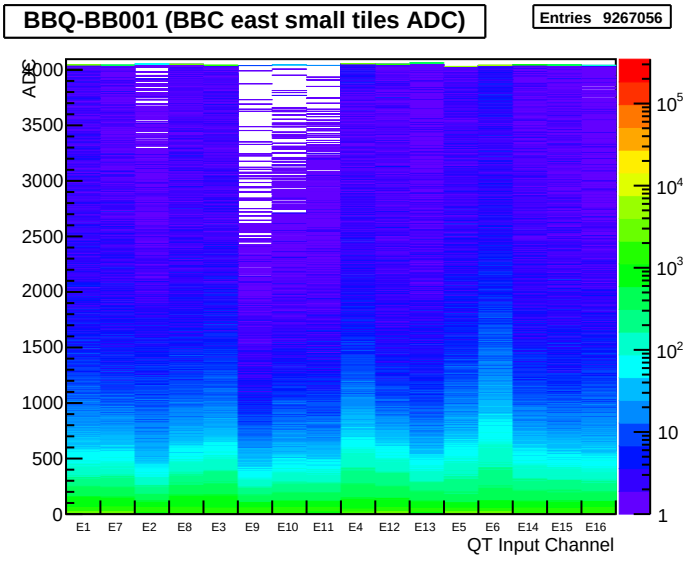

MIX-TF101
Entries 458365
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

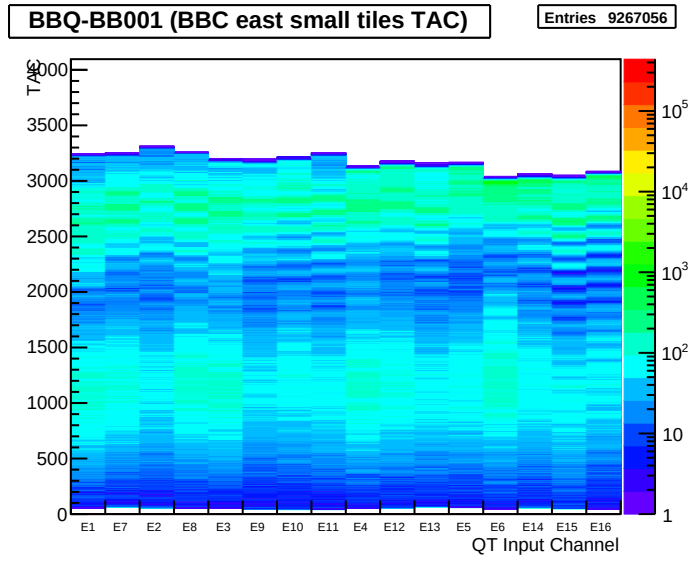

L2-TF201
Entries 579191
TOF total mult

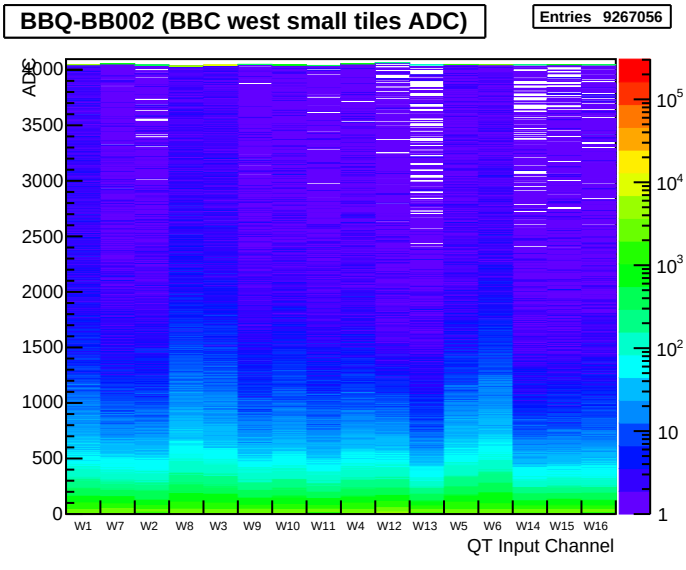

L2-TF201
Entries 0
TOF total mult(Real-Simu)

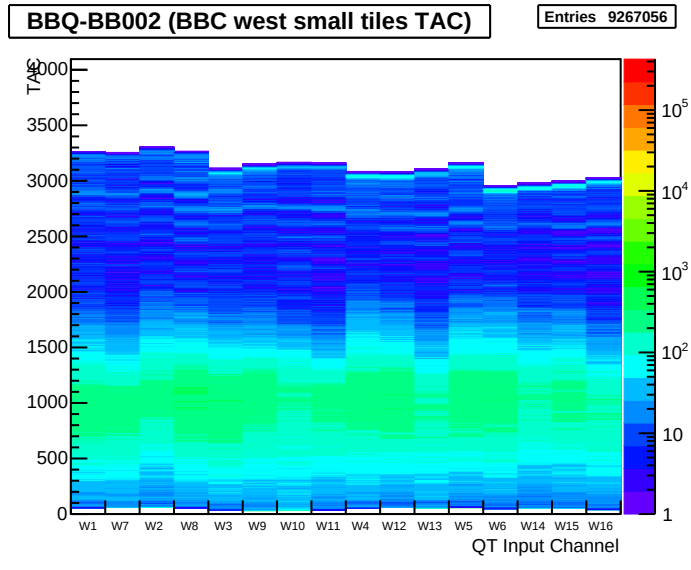

L2-TF201
Entries 4054337
Threshold/UPC bits
504002
508187
503303
507967
503505
501595
548018
75189
71004
75888
71224
75686
77596
31173
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

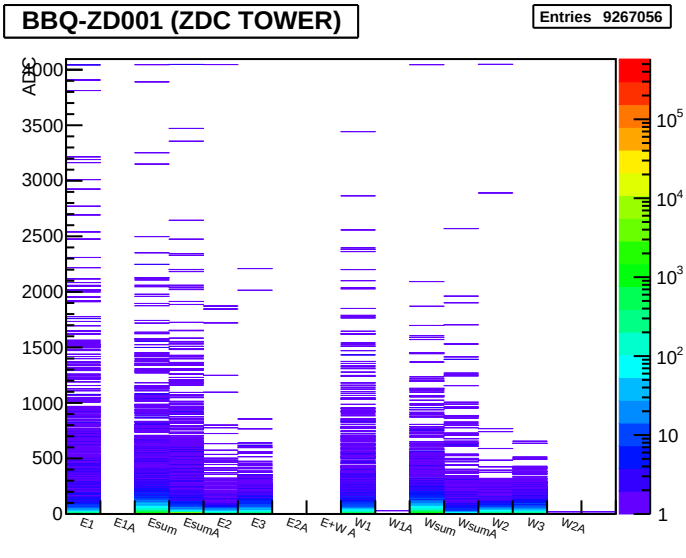

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

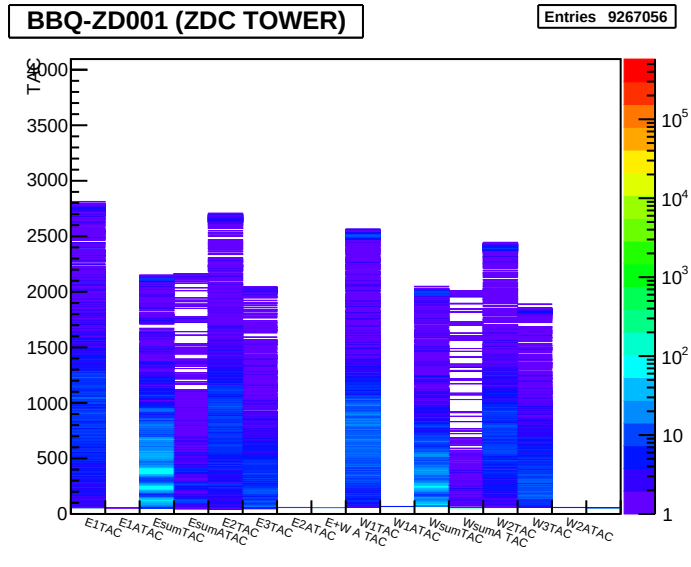

BBQ-BB001 (BBC east small tiles ADC)
Entries 9267056
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

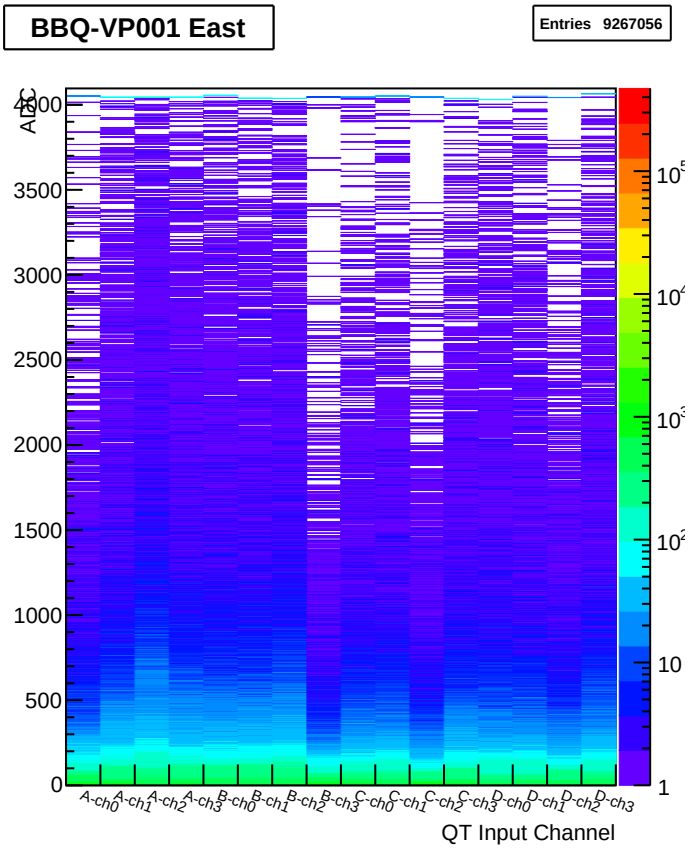

BBQ-BB001 (BBC east small tiles TAC)
Entries 9267056
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

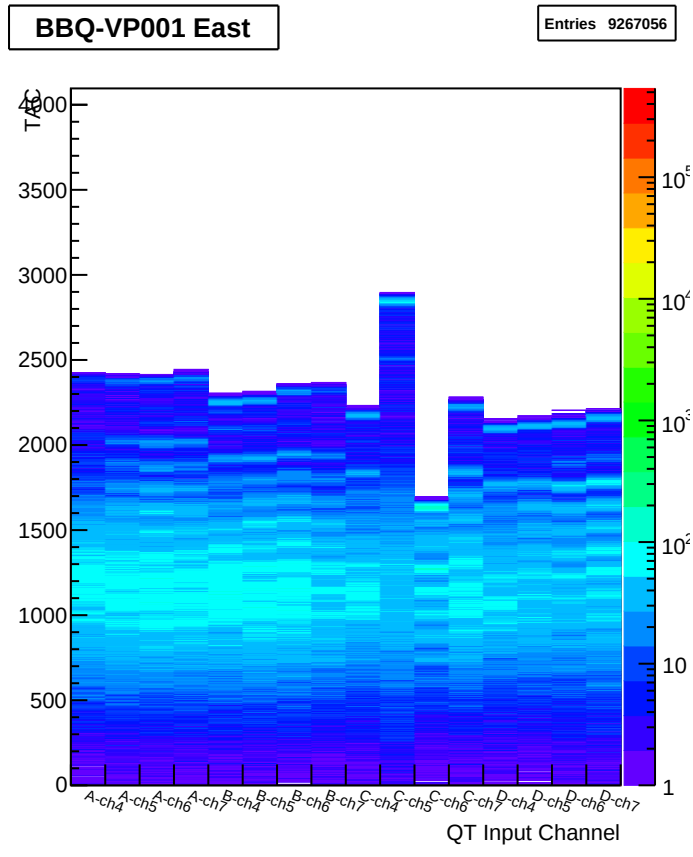

BBQ-BB002 (BBC west small tiles ADC)
Entries 9267056
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

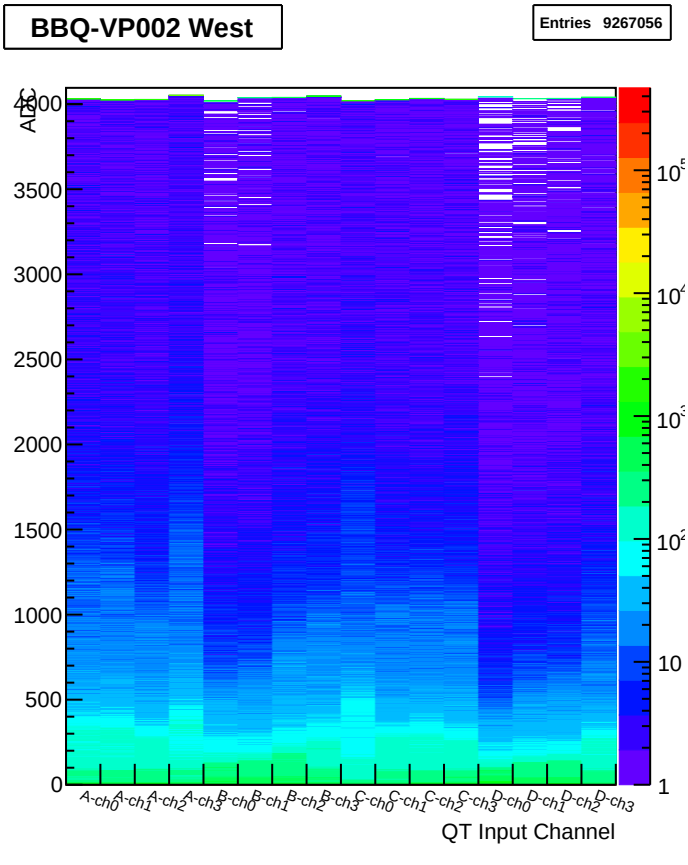

BBQ-BB002 (BBC west small tiles TAC)
Entries 9267056
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

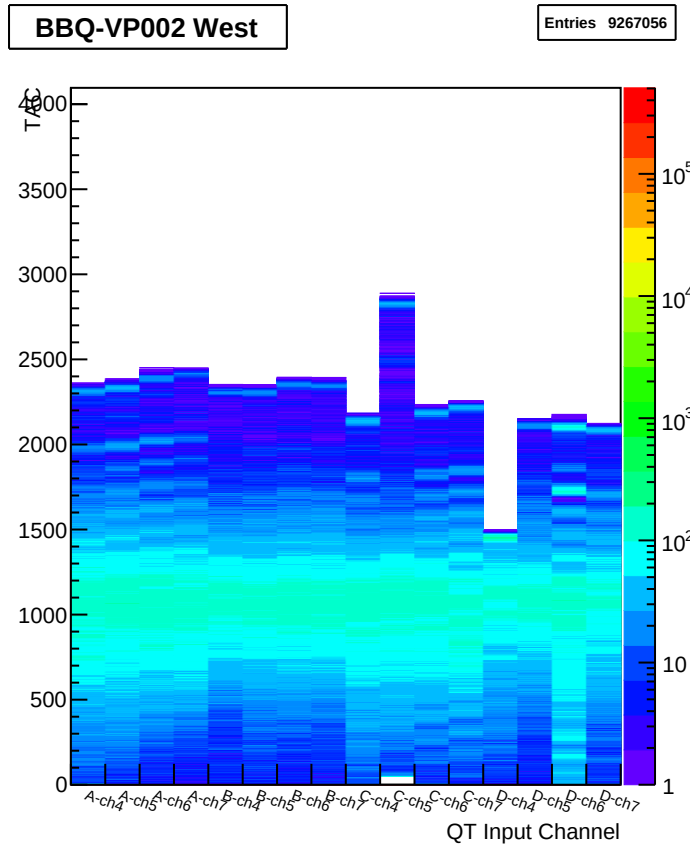

BBQ-ZD001 (ZDC TOWER)
Entries 9267056
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

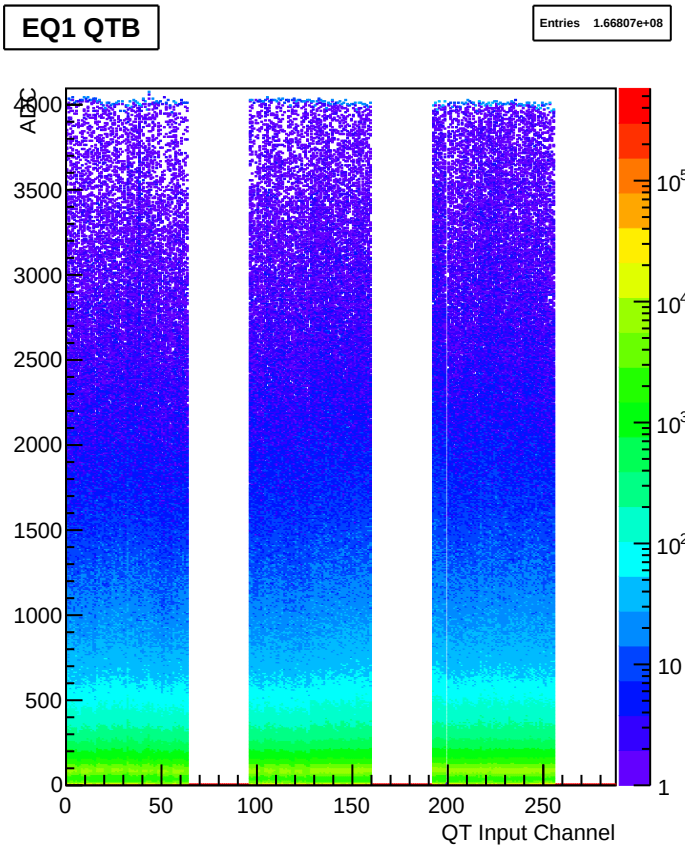

BBQ-ZD001 (ZDC TOWER)
Entries 9267056
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

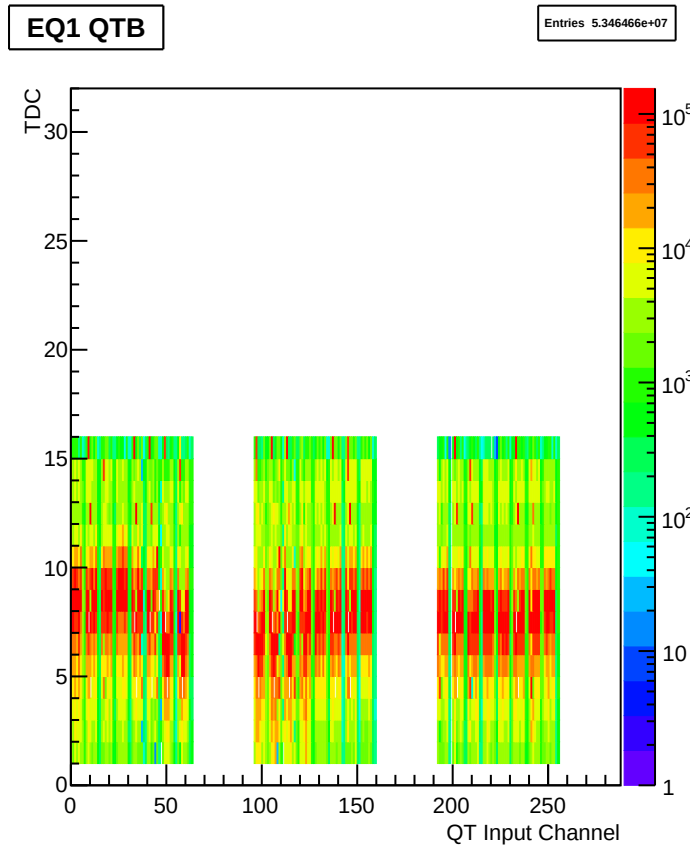

BBQ-VP001 East
Entries 9267056
ADC
QT Input Channel

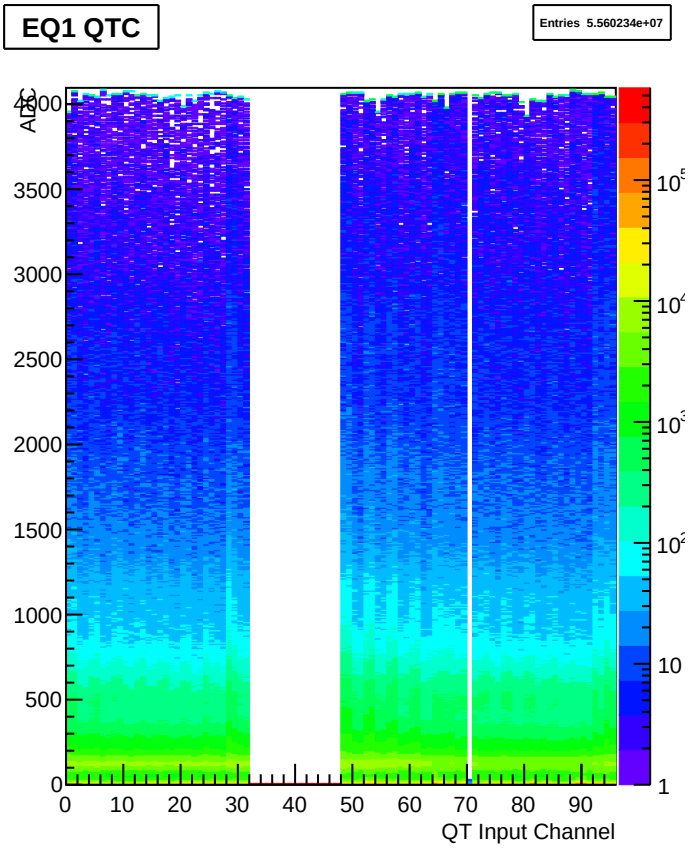

BBQ-VP001 East
Entries 9267056
TADC
QT Input Channel

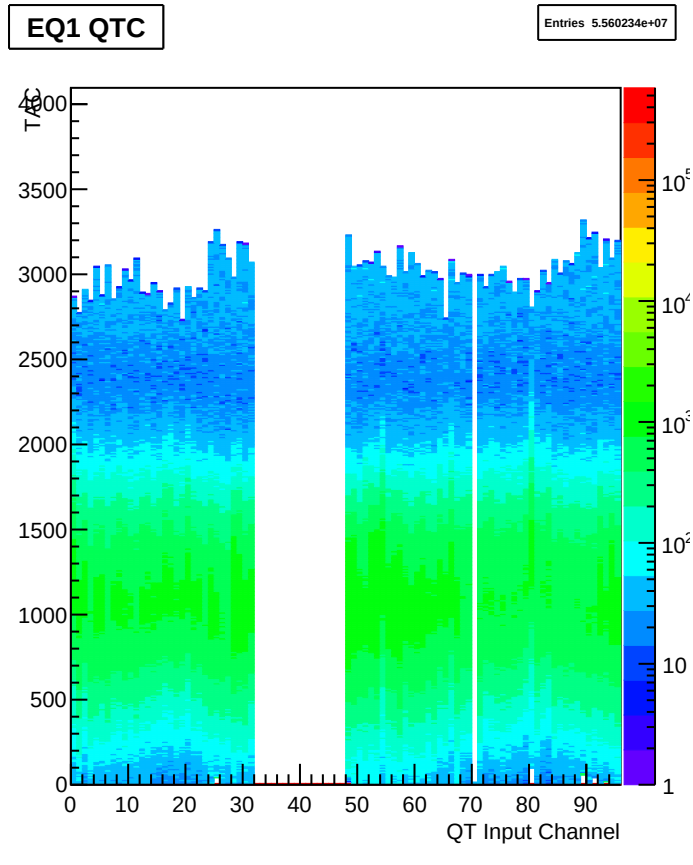

BBQ-VP002 West
Entries 9267056
ADC
QT Input Channel

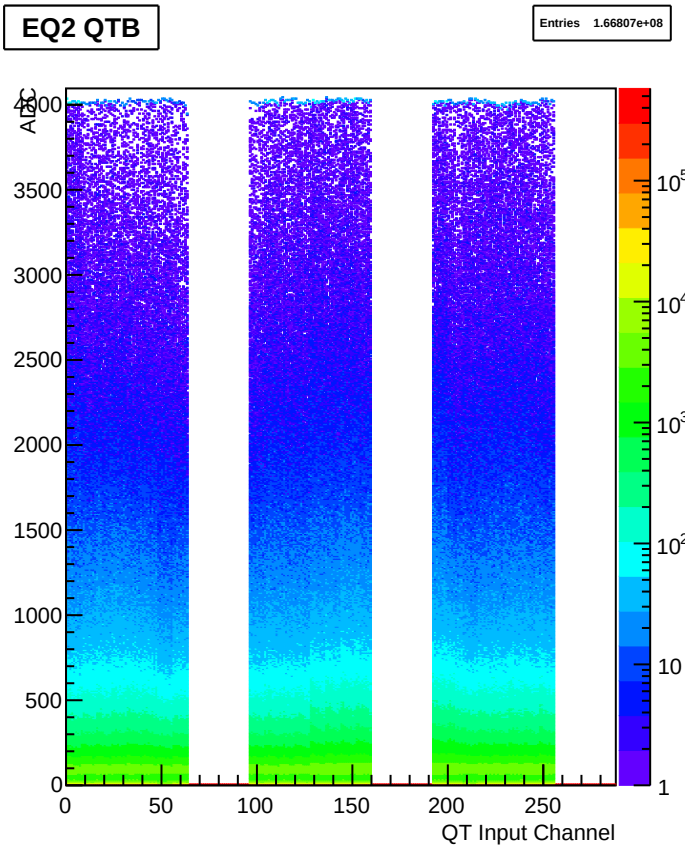

BBQ-VP002 West
Entries 9267056
TADC
QT Input Channel

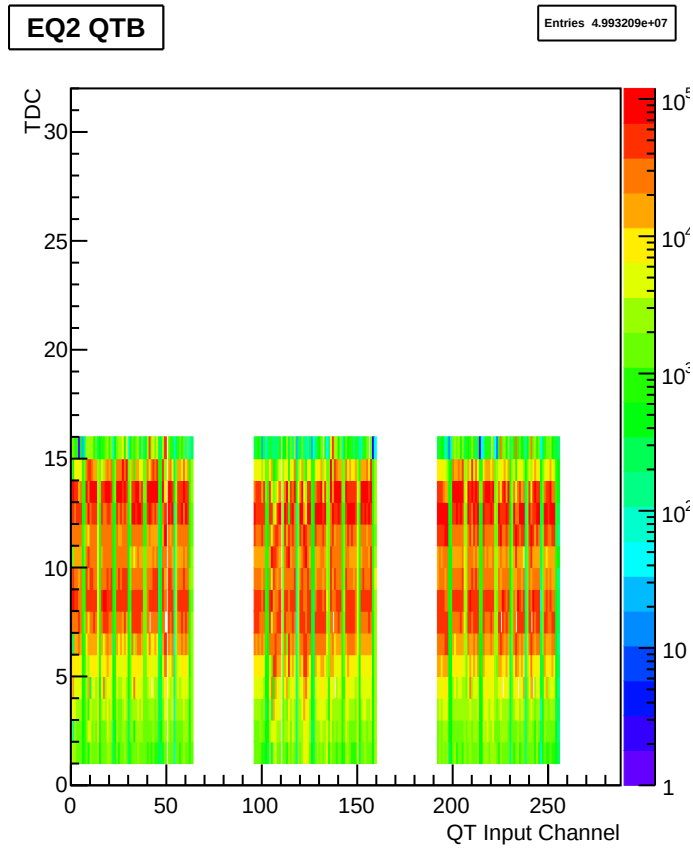

EQ1 QTB
Entries 1.66807e+08
ADC
QT Input Channel

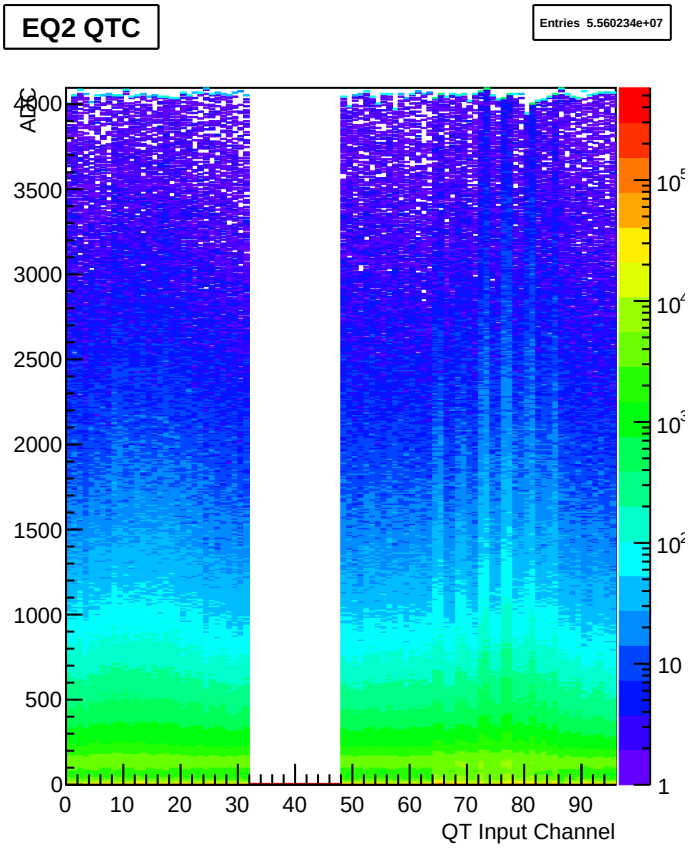

EQ1 QTB
Entries 5.346466e+07
TDC
QT Input Channel

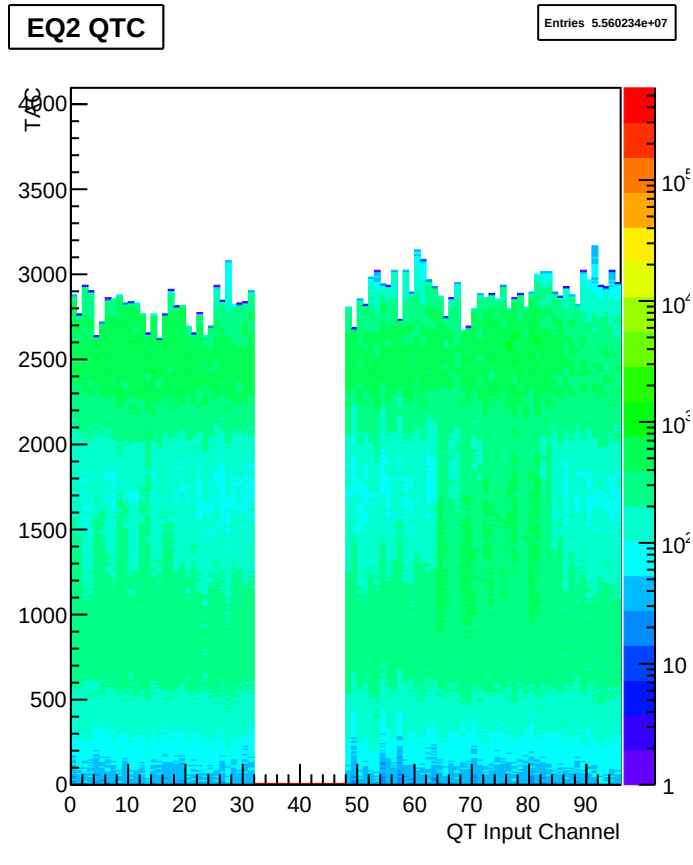

EQ1 QTC
Entries 5.560234e+07
ADC
QT Input Channel

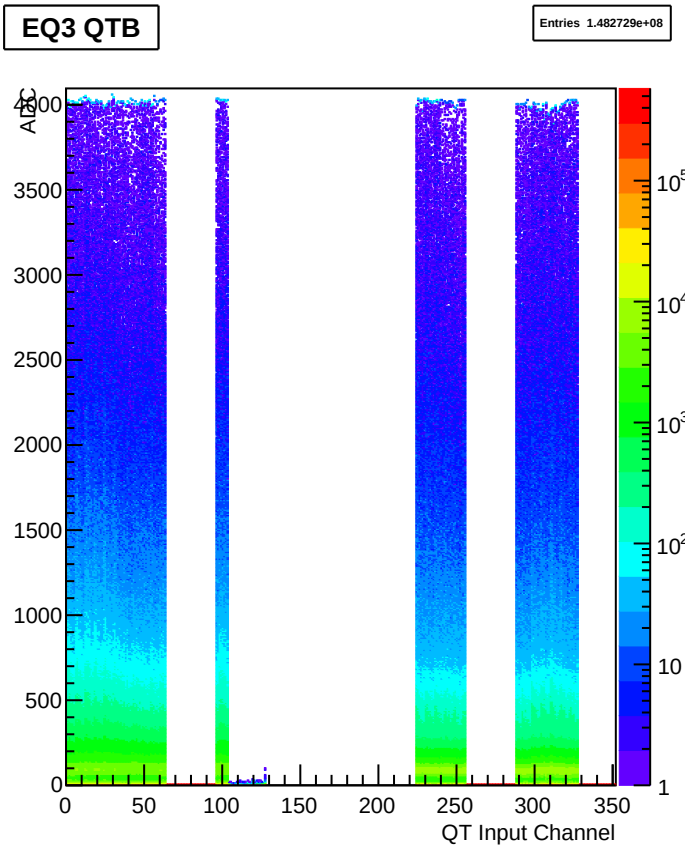

EQ1 QTC
Entries 5.560234e+07
TADC
QT Input Channel

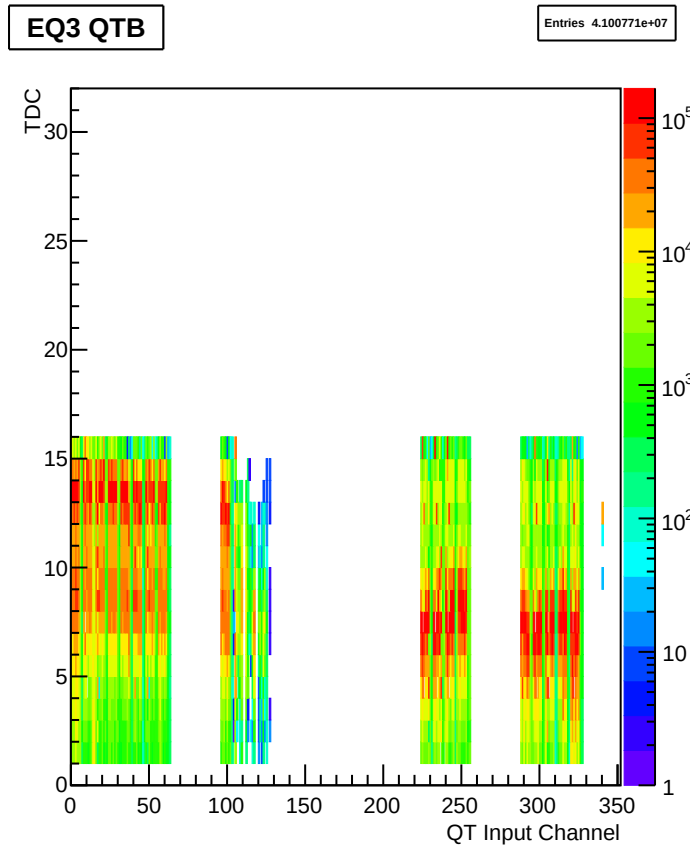

EQ2 QTB
Entries 1.66807e+08
ADC
QT Input Channel

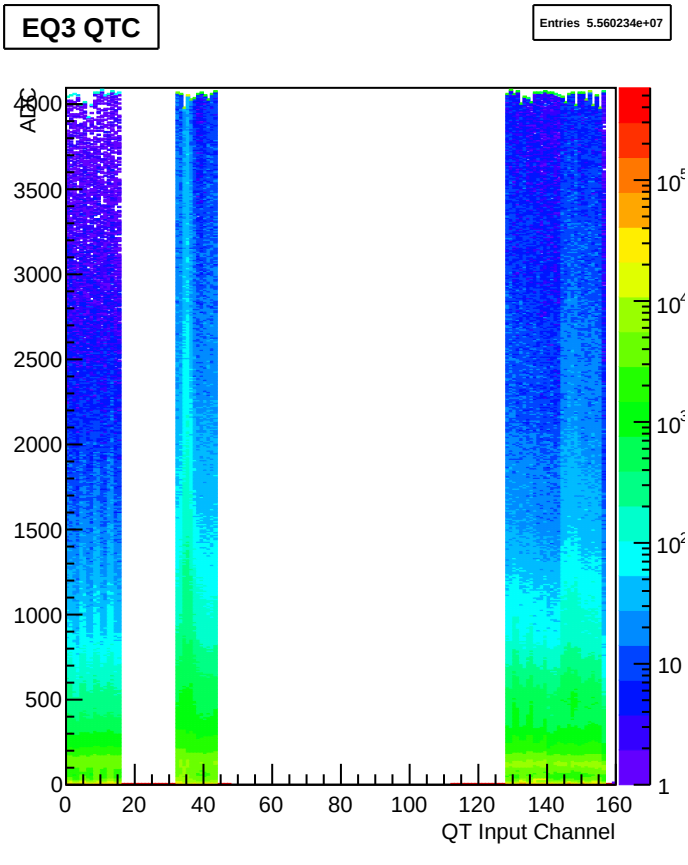

EQ2 QTB
Entries 4.993209e+07
TDC
QT Input Channel

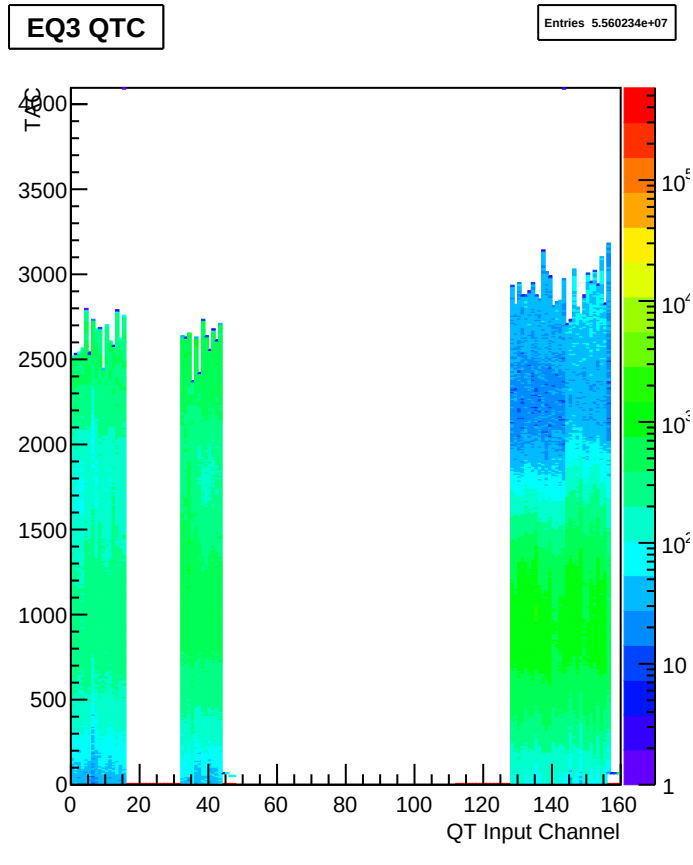

EQ2 QTC
Entries 5.560234e+07
ADC
QT Input Channel

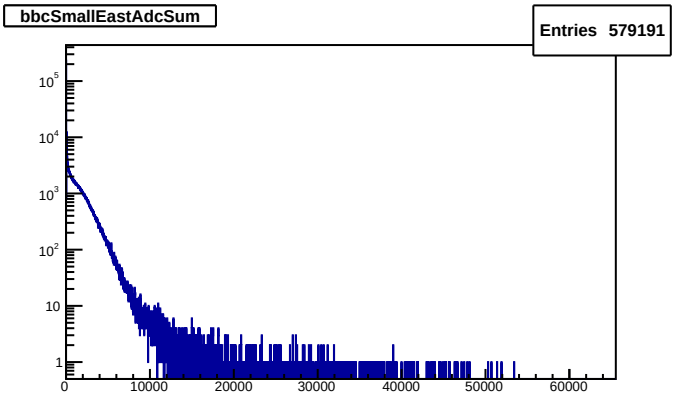

EQ2 QTC
Entries 5.560234e+07
TADC
QT Input Channel

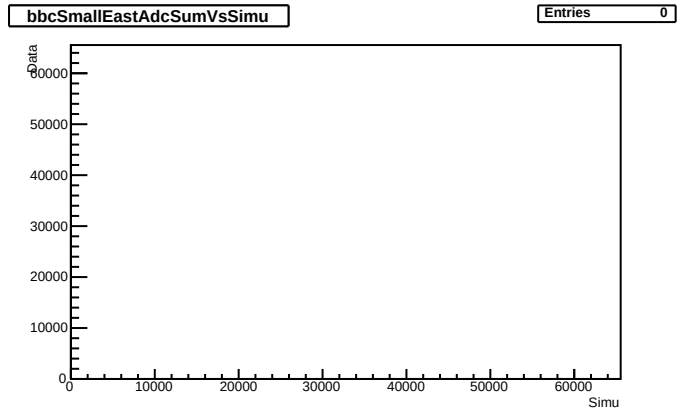

EQ3 QTB
Entries 1.482729e+08
ADC
QT Input Channel

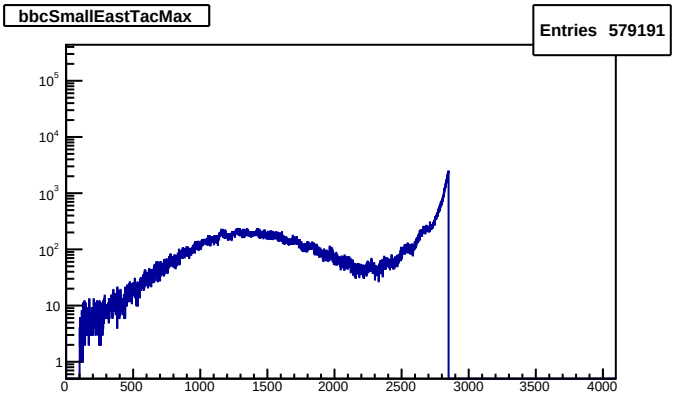

EQ3 QTB
Entries 4.100771e+07
TDC
QT Input Channel

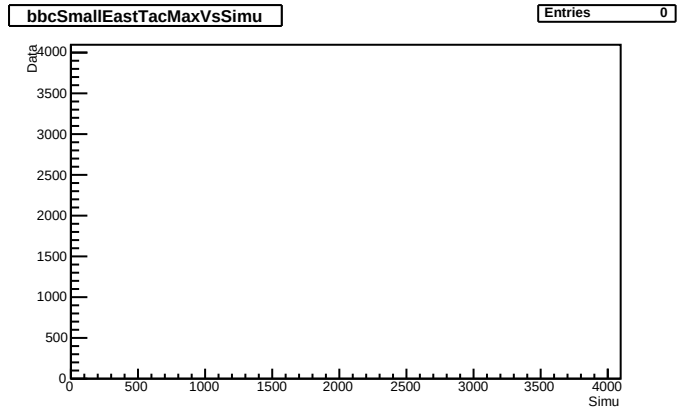

EQ3 QTC
Entries 5.560234e+07
ADC
QT Input Channel

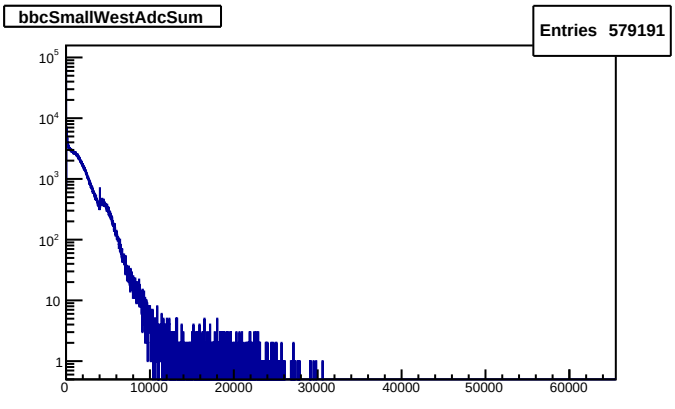

EQ3 QTC
Entries 5.560234e+07
TADC
QT Input Channel

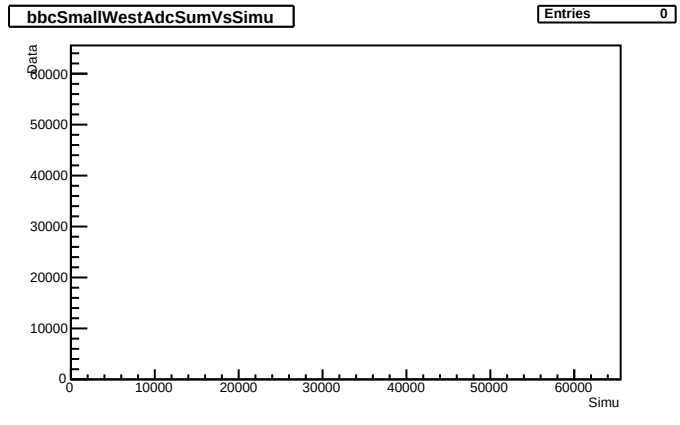

bbcSmallEastAdcSum
Entries 579191

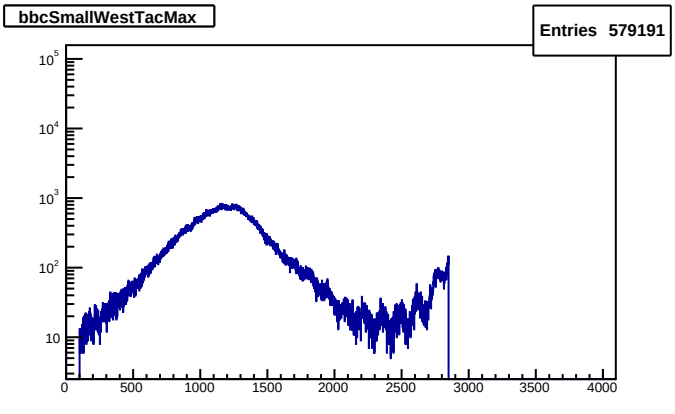

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

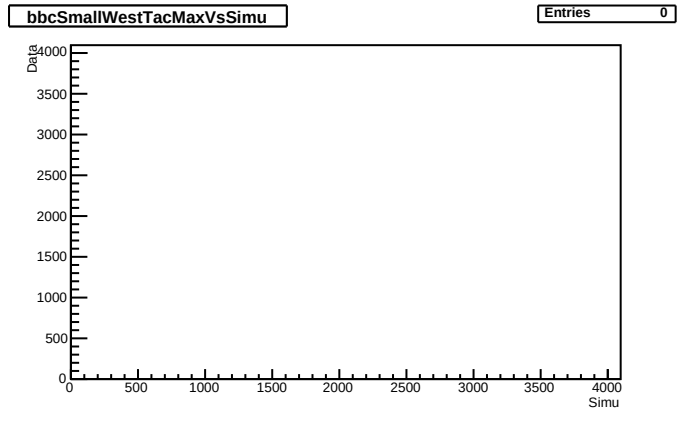

bbcSmallEastTacMax
Entries 579191

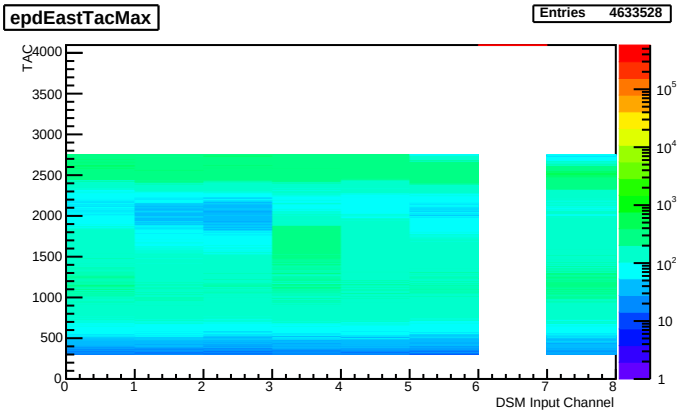

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

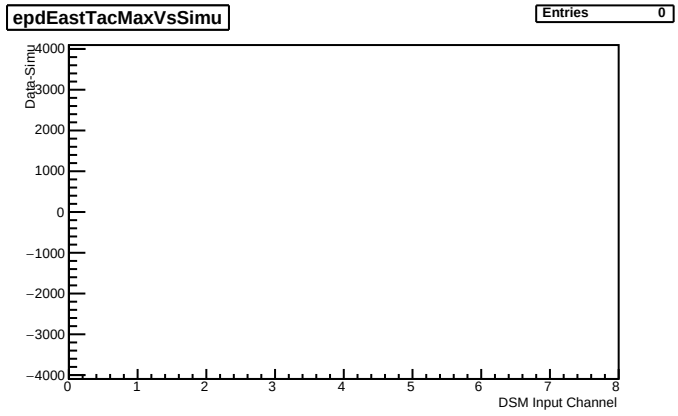

bbcSmallWestAdcSum
Entries 579191

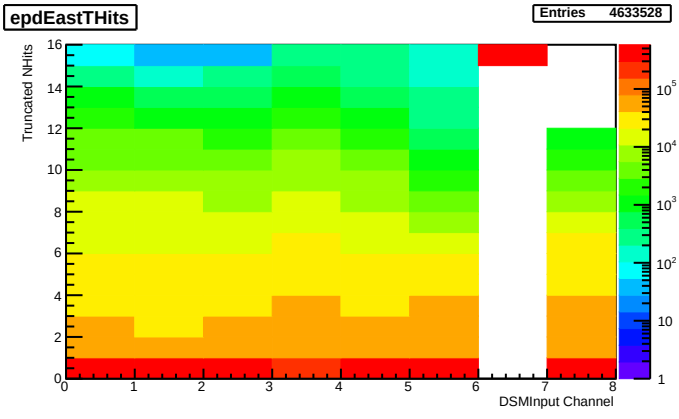

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

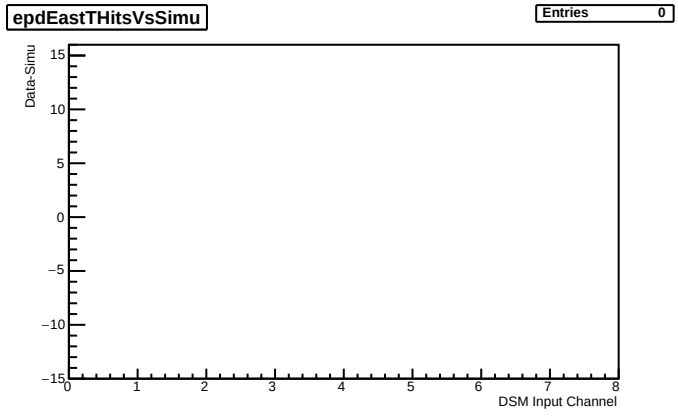

bbcSmallWestTacMax
Entries 579191

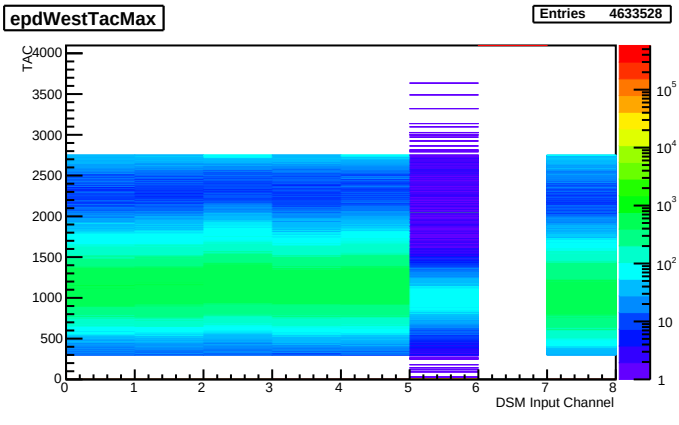

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

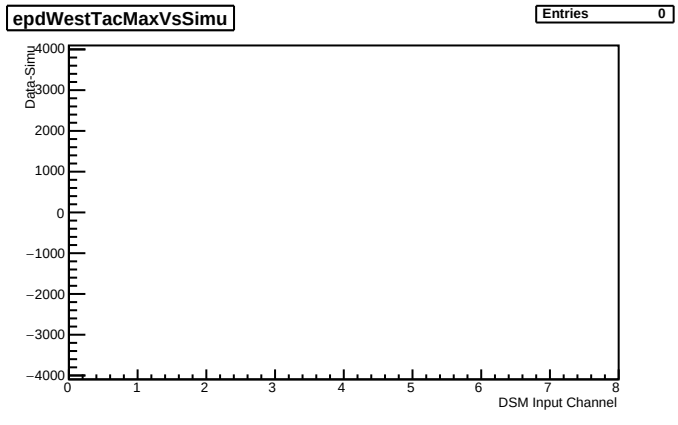

epdEastTacMax
Entries 4633528
TAC
DSM Input Channel

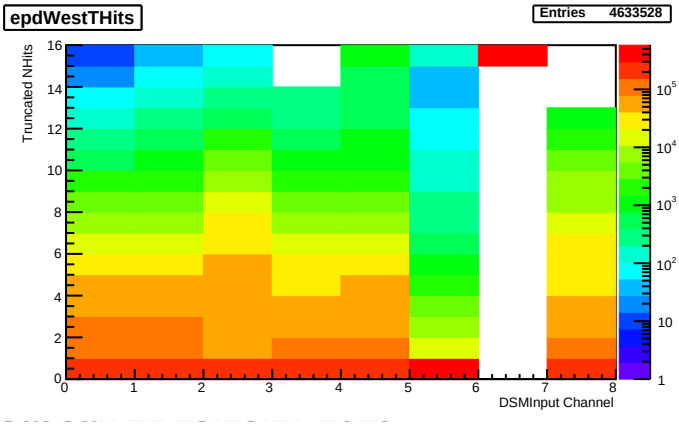

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

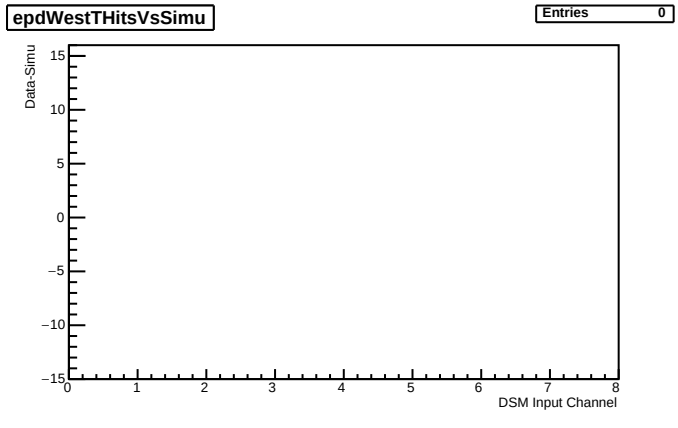

epdEastTHits
Entries 4633528
Truncated NHits
DSMInput Channel

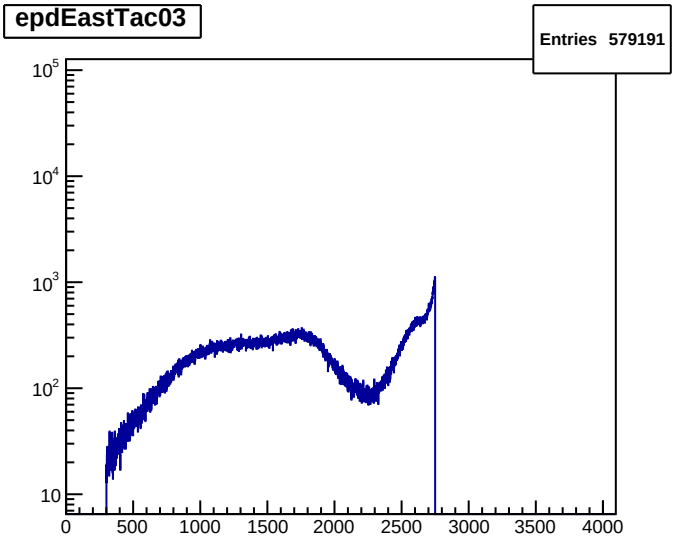

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

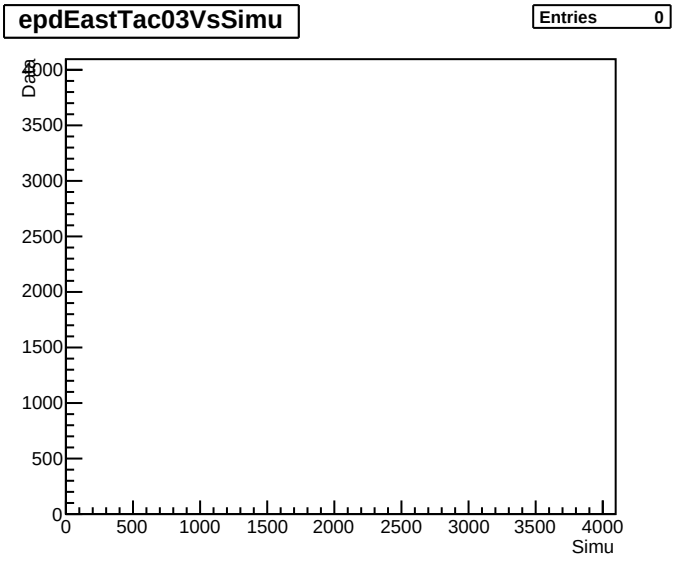

epdWestTacMax
Entries 4633528
TAC
DSM Input Channel

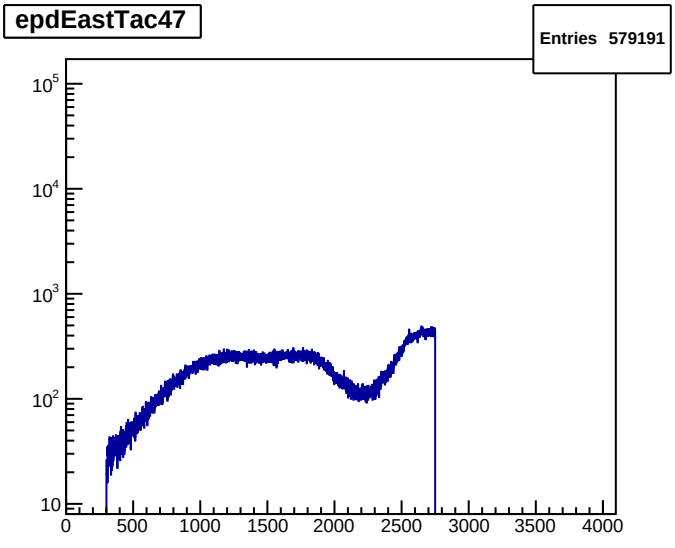

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

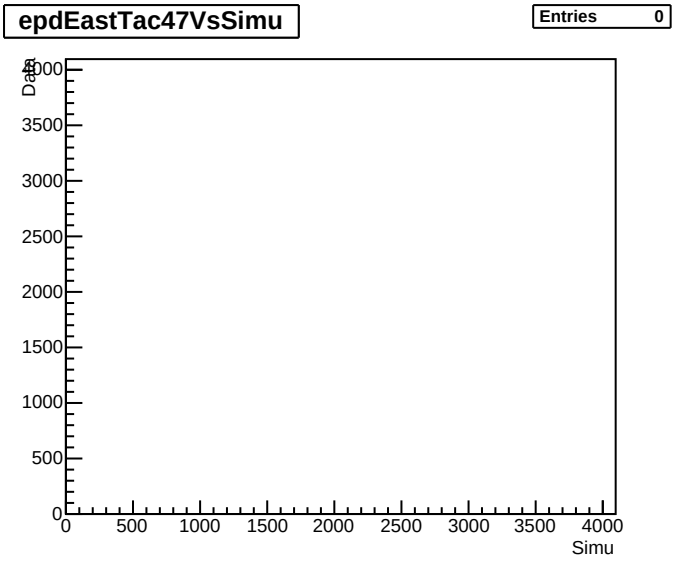

epdWestTHits
Entries 4633528
Truncated NHits
DSMInput Channel

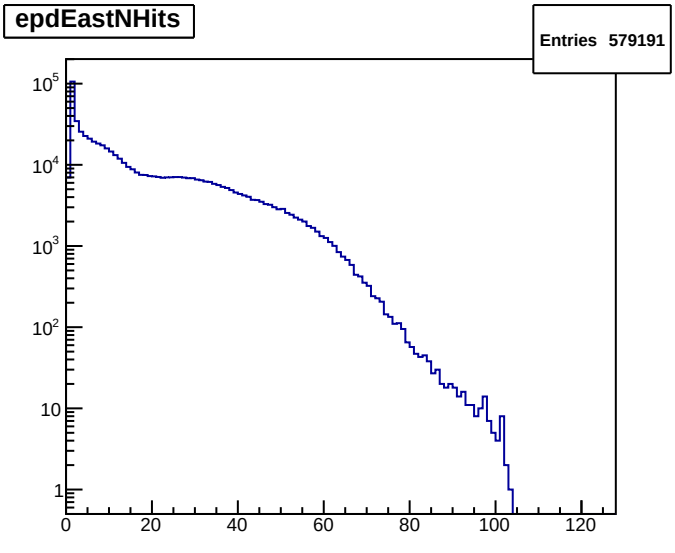

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

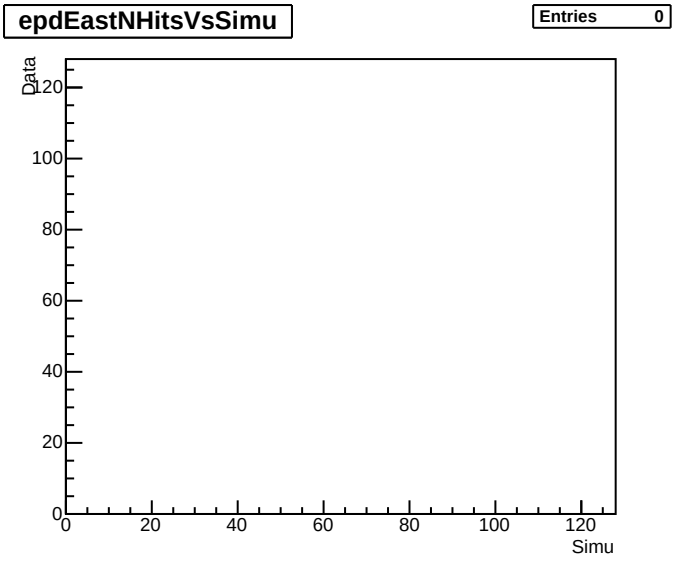

epdEastTac03
Entries 579191

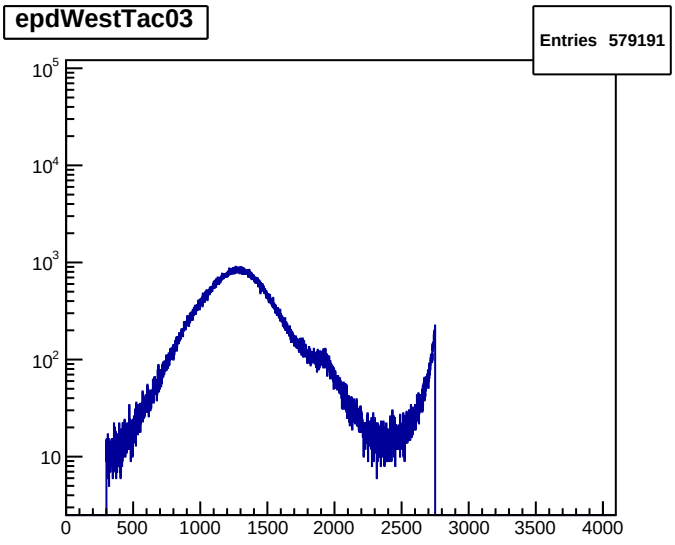

epdEastTac03VsSimu
Entries 0
Data
Simu

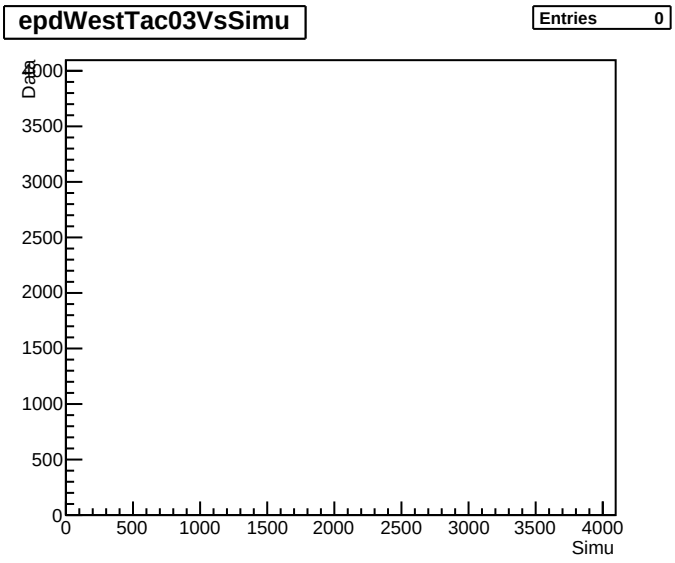

epdEastTac47
Entries 579191

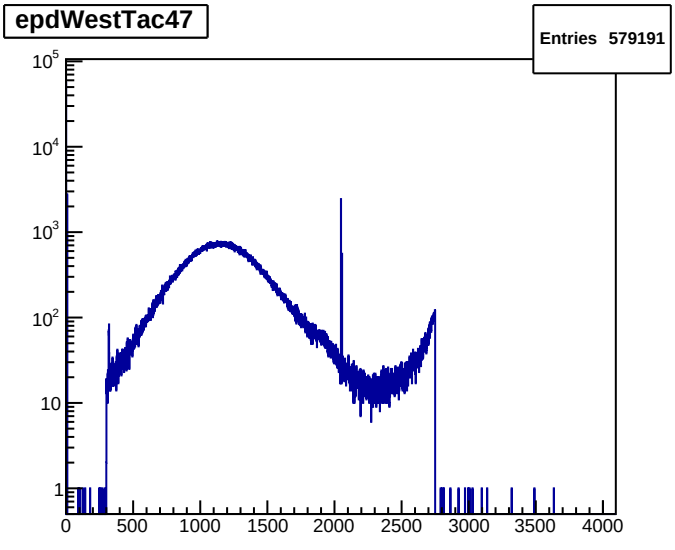

epdEastTac47VsSimu
Entries 0
Data
Simu

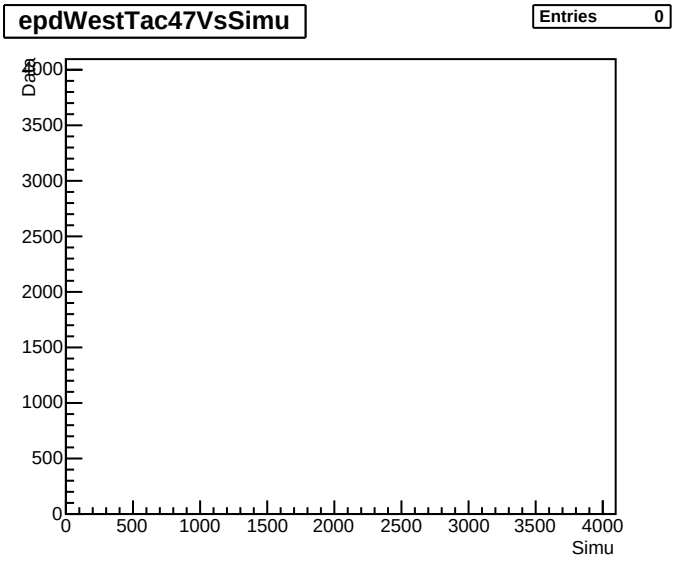

epdEastNHits
Entries 579191

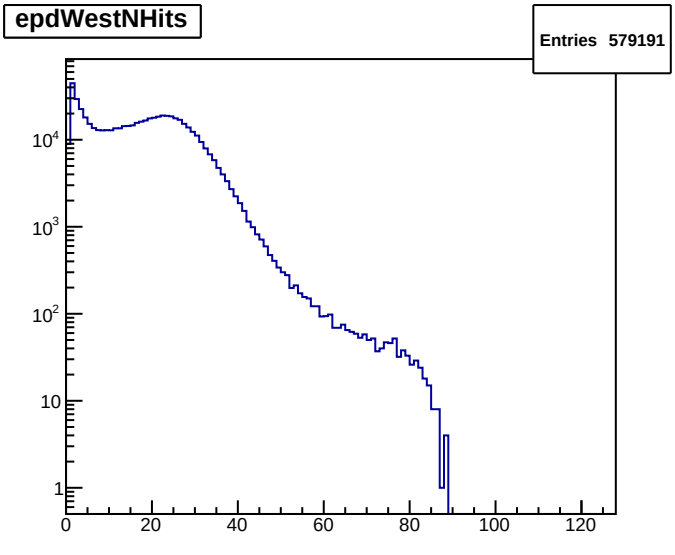

epdEastNHitsVsSimu
Entries 0
Data
Simu

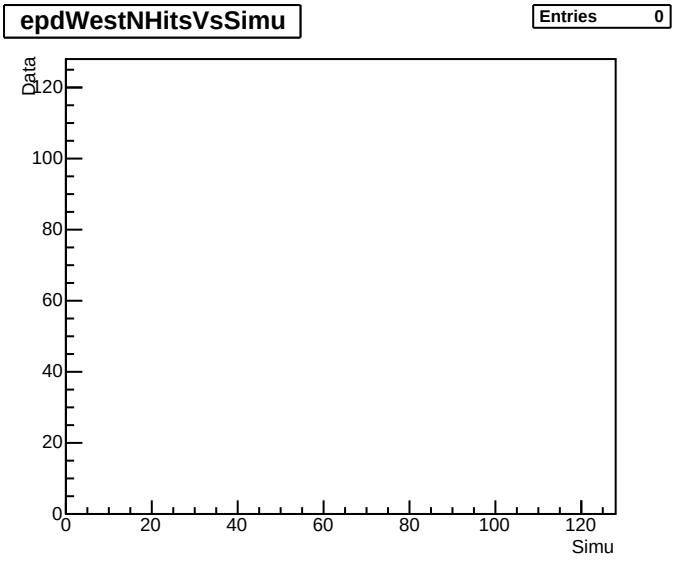

epdWestTac03
Entries 579191

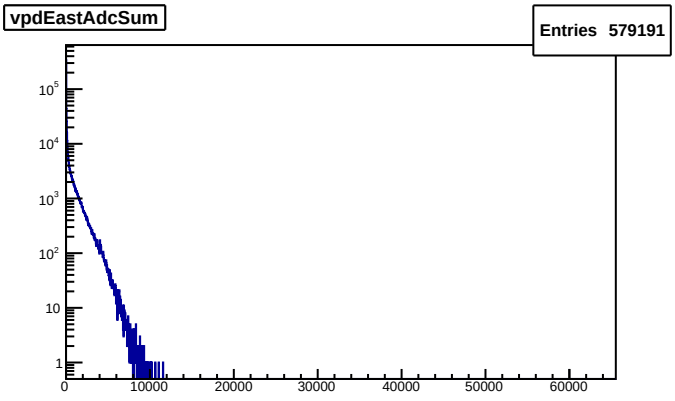

epdWestTac03VsSimu
Entries 0
Data
Simu

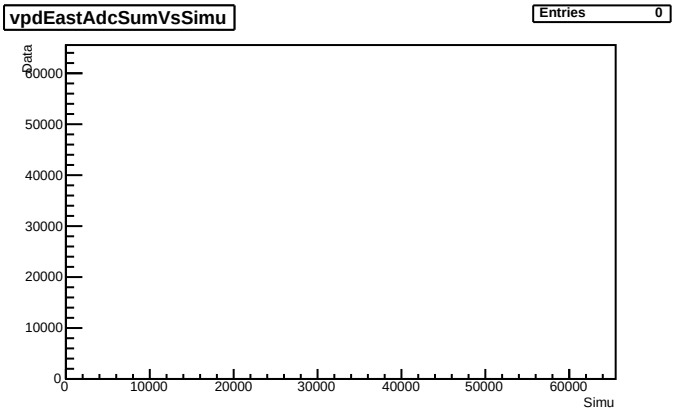

epdWestTac47
Entries 579191

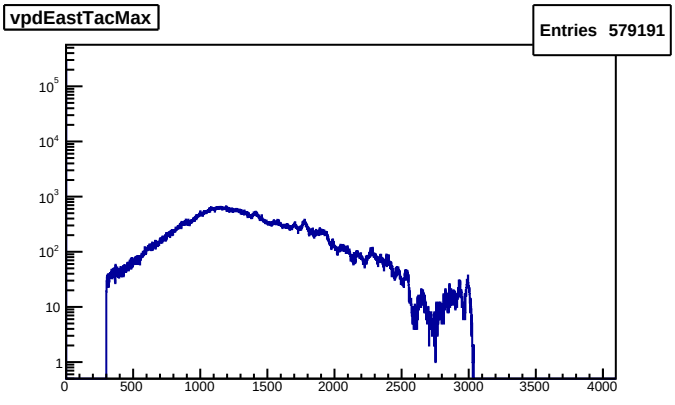

epdWestTac47VsSimu
Entries 0
Data
Simu

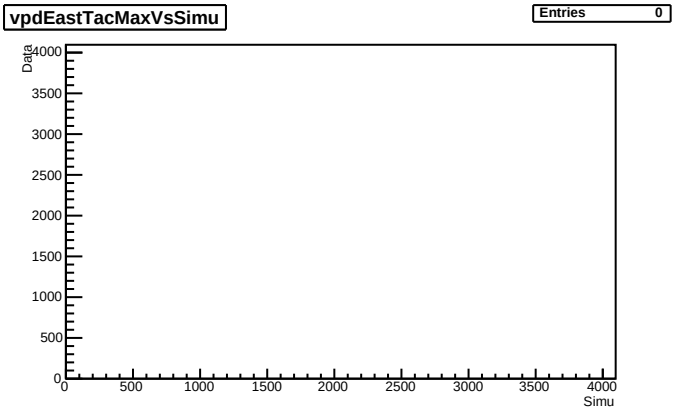

epdWestNHits
Entries 579191

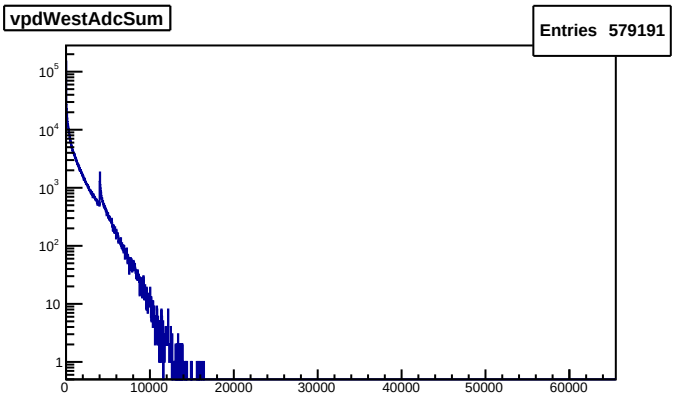

epdWestNHitsVsSimu
Entries 0
Data
Simu

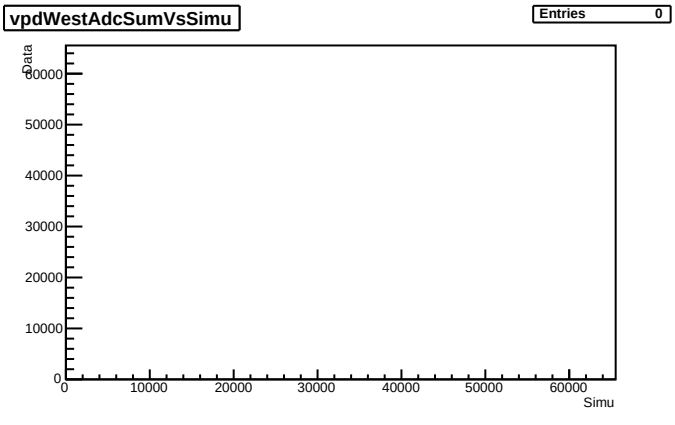

vpdEastAdcSum
Entries 579191

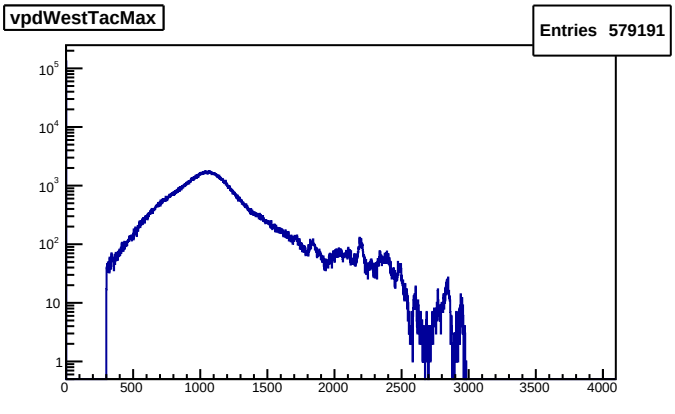

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

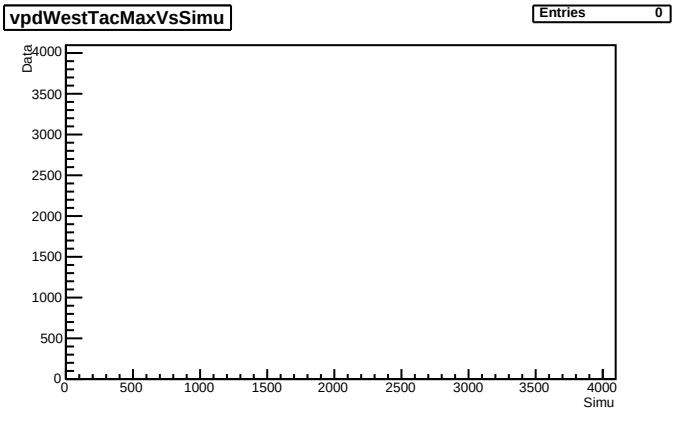

vpdEastTacMax
Entries 579191

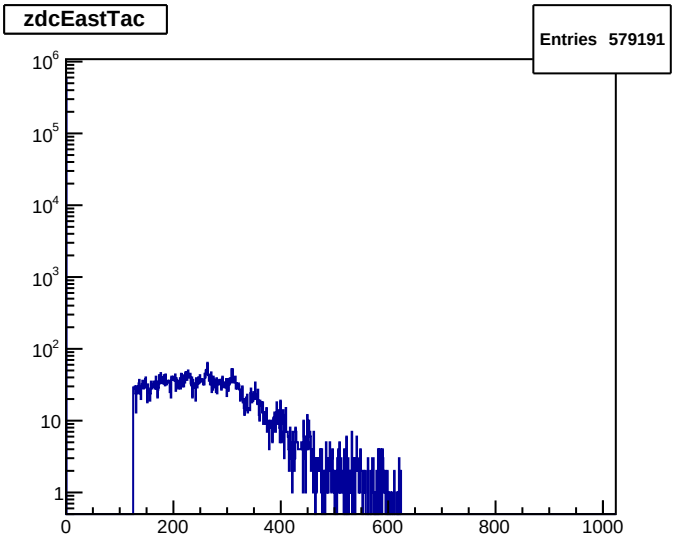

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

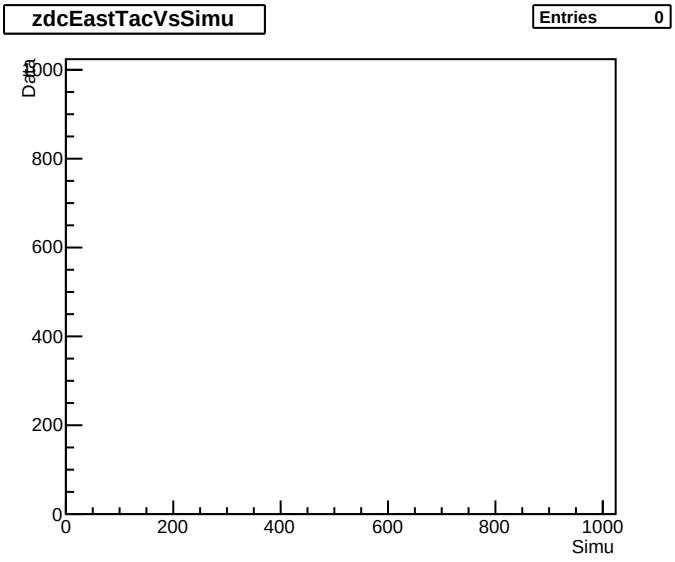

vpdWestAdcSum
Entries 579191

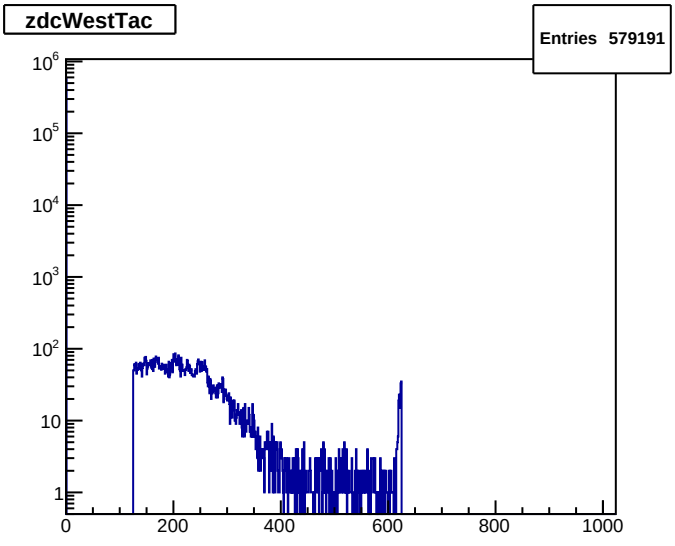

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

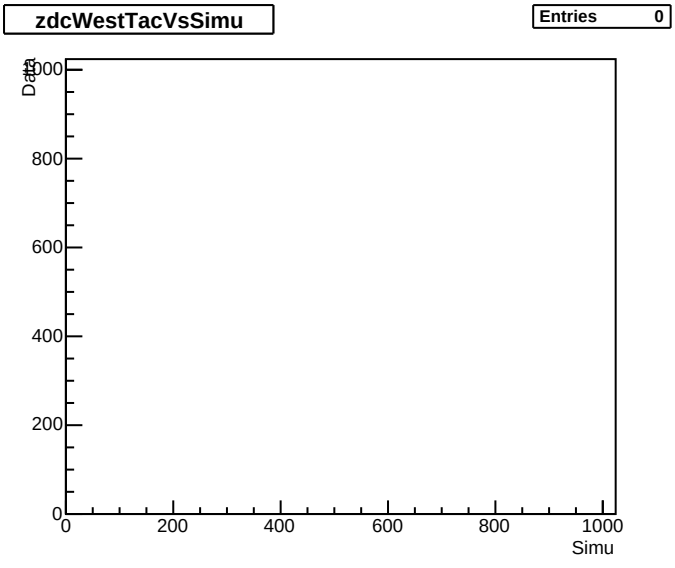

vpdWestTacMax
Entries 579191

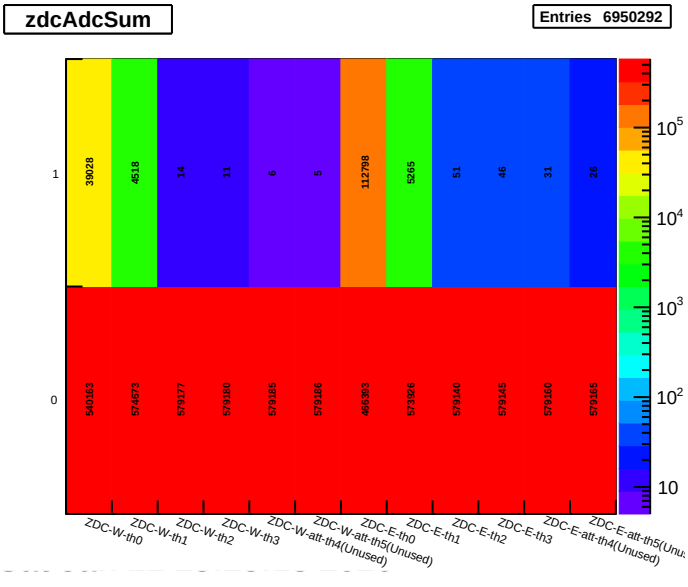

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

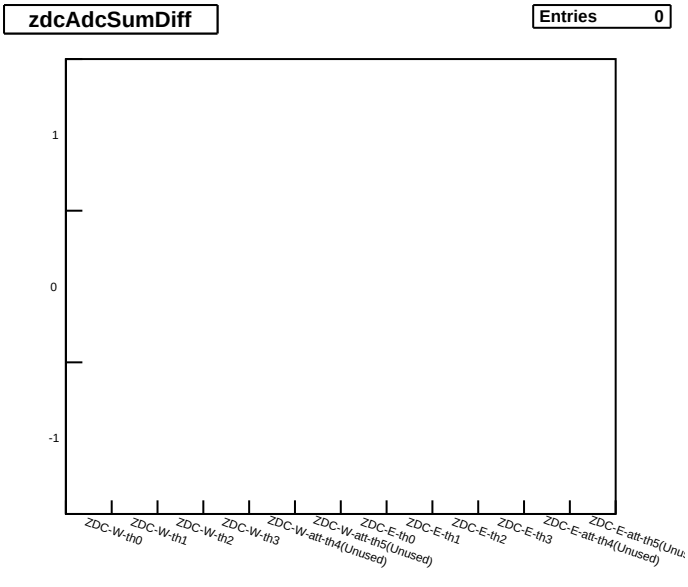

zdcEastTac
Entries 579191

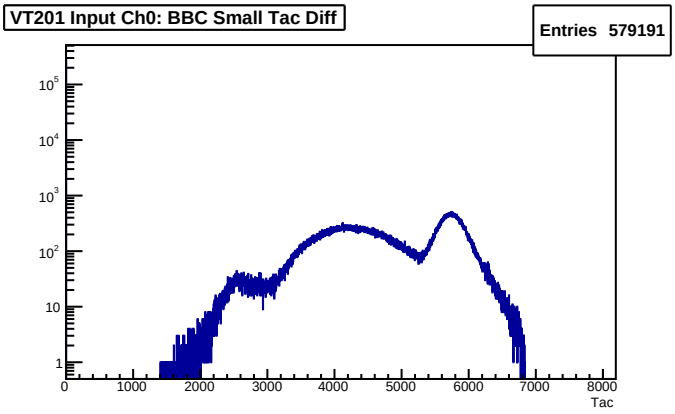

zdcEastTacVsSimu
Entries 0
Data
Simu

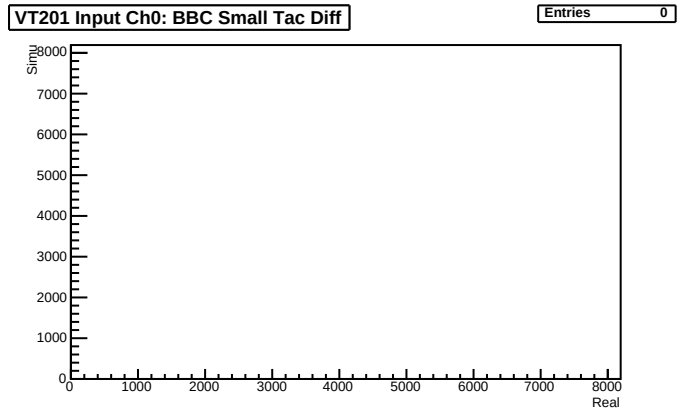

zdcWestTac
Entries 579191

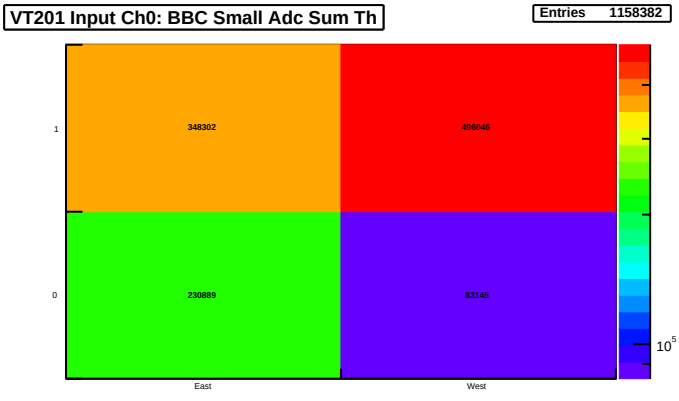

zdcWestTacVsSimu
Entries 0
Data
Simu

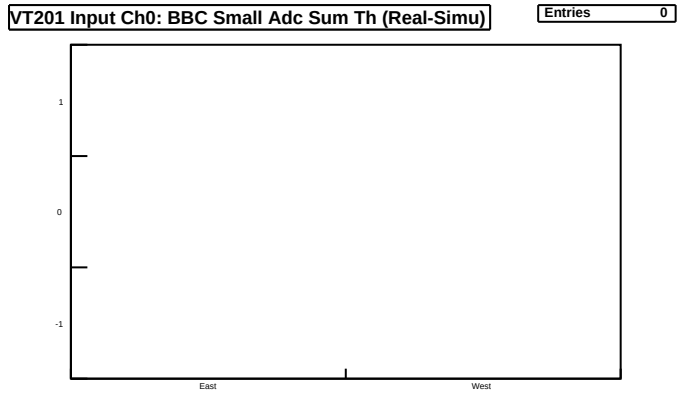

zdcAdcSum
Entries 6950292
39028
4518
14
11
6
5
112798
5265
51
46
31
26
540163
574673
579177
579180
579185
579186
466393
573926
579140
579145
579160
579165
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

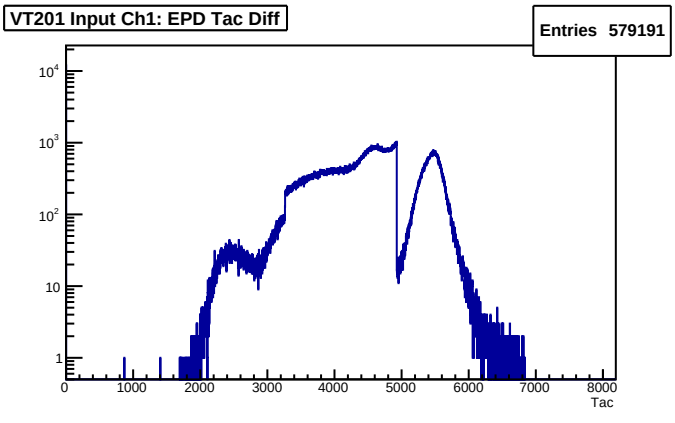

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

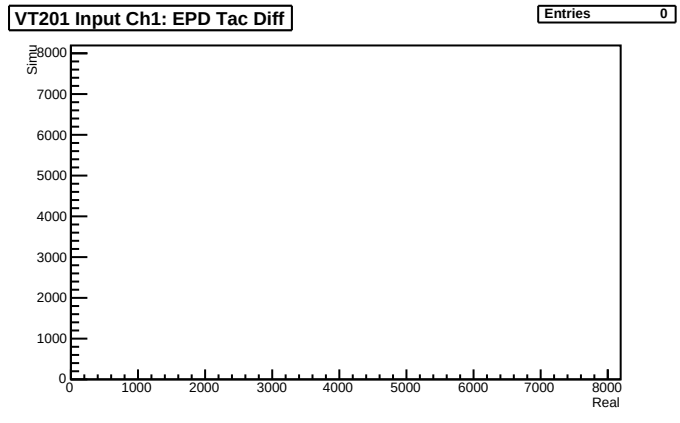

VT201 Input Ch0: BBC Small Tac Diff
Entries 579191
Tac

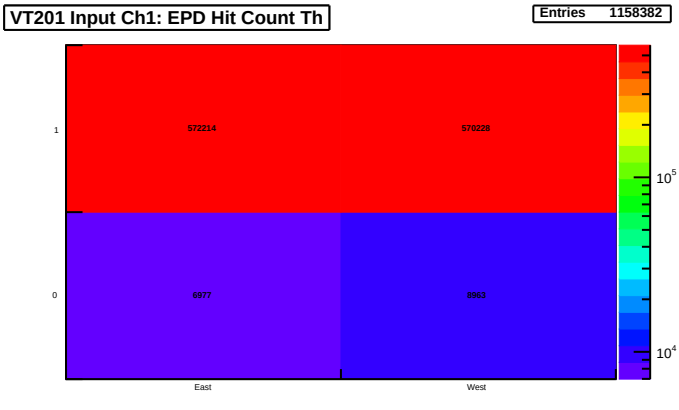

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

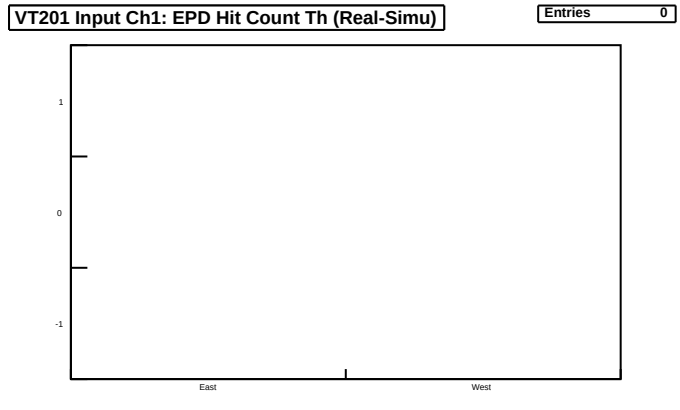

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1158382
348302
496046
230889
83145
East
West

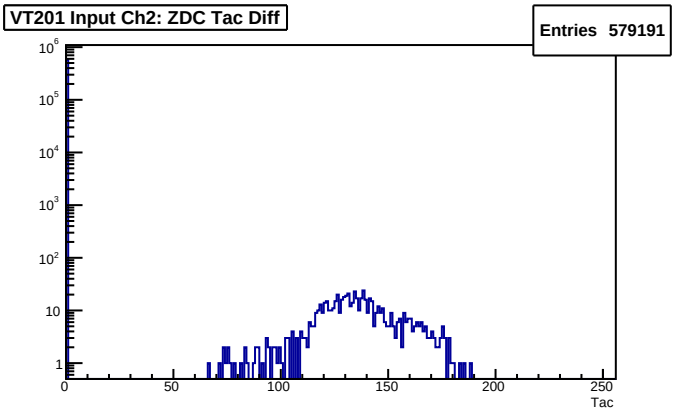

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

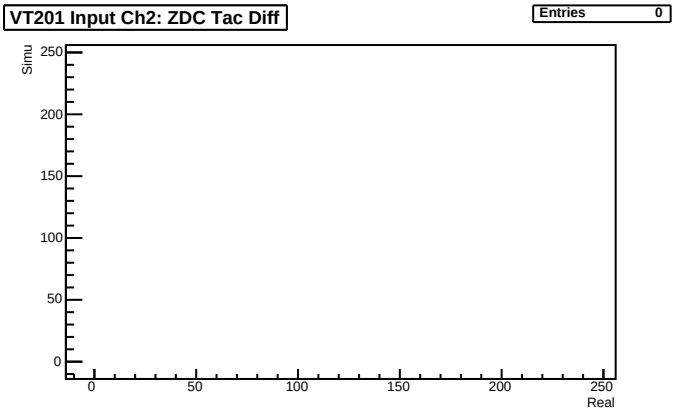

VT201 Input Ch1: EPD Tac Diff
Entries 579191
Tac

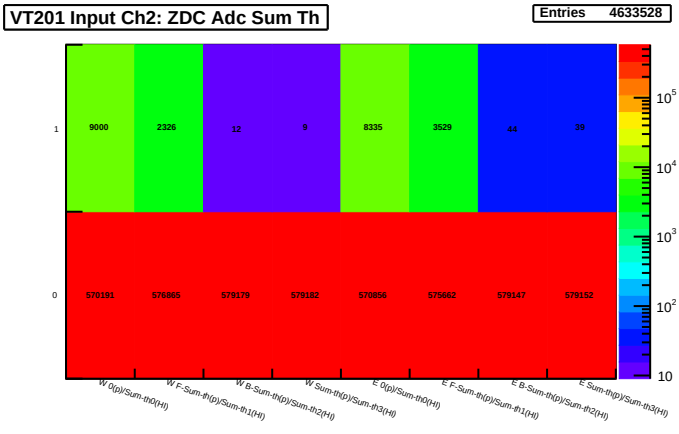

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

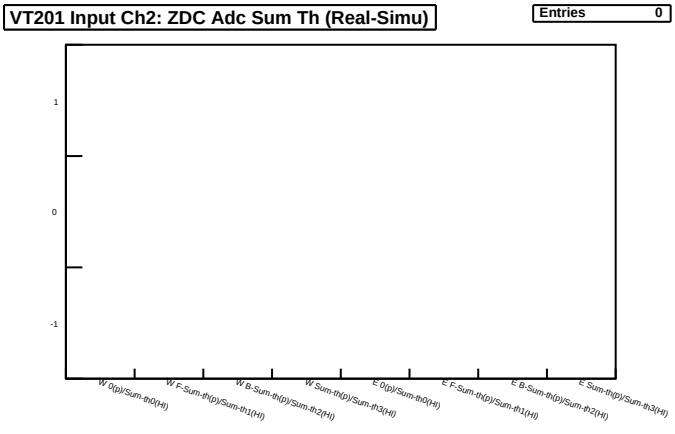

VT201 Input Ch1: EPD Hit Count Th
Entries 1158382
572214
570228
6977
8963
East
West

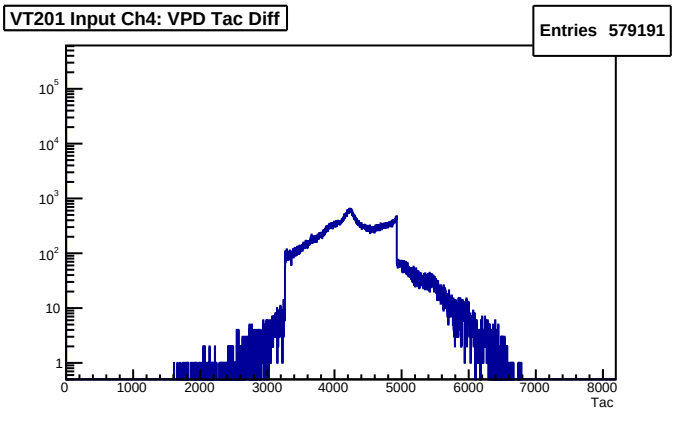

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

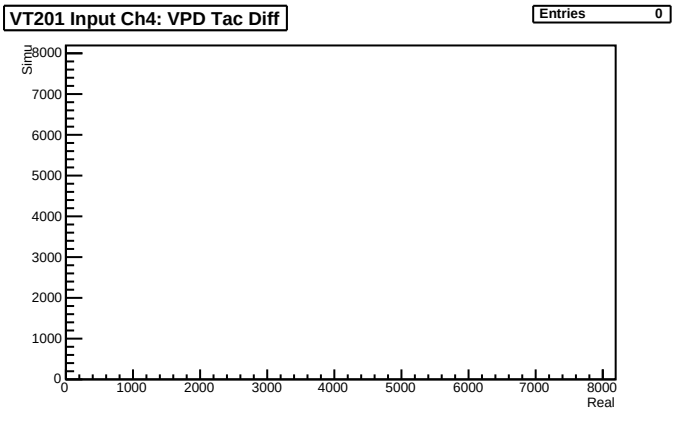

VT201 Input Ch2: ZDC Tac Diff
Entries 579191
Tac

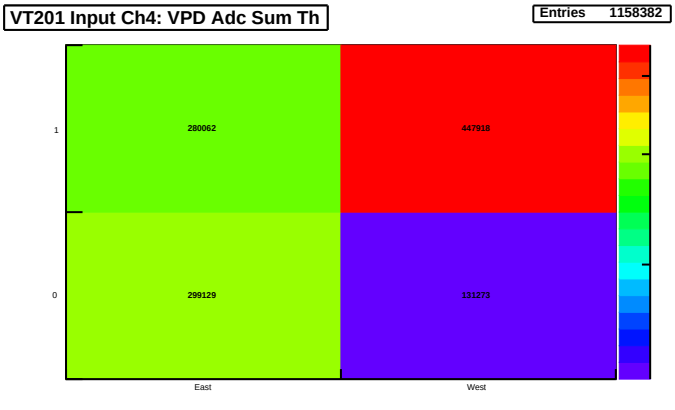

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

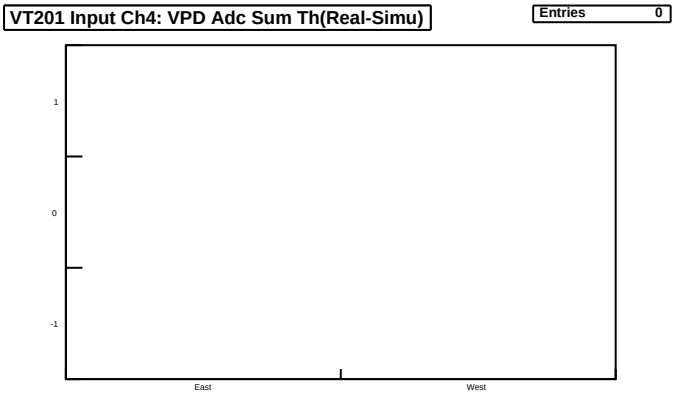

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4633528
9000
2326
12
9
8335
3529
44
39
570191
576865
579179
579182
570856
575662
579147
579152
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

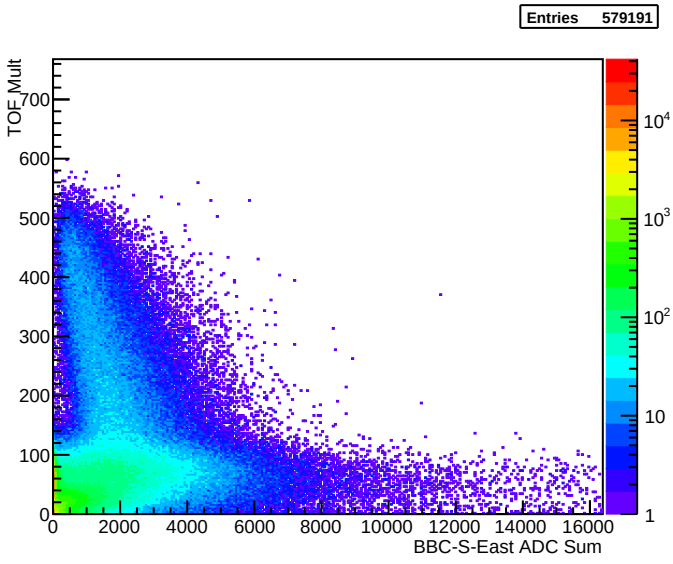

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

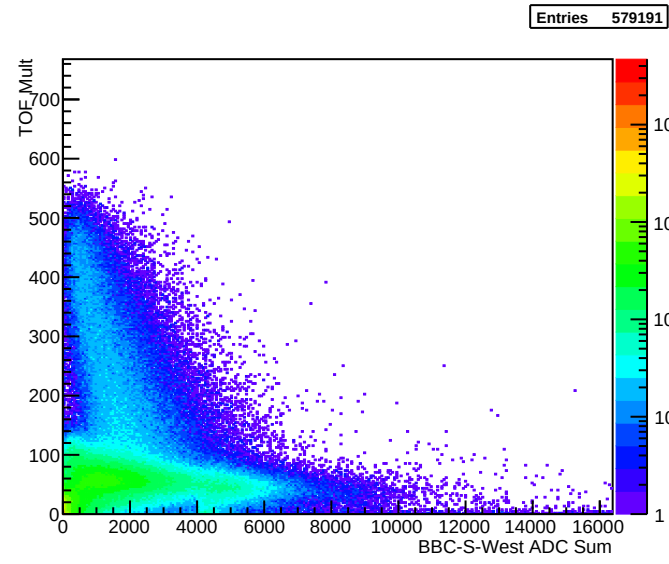

VT201 Input Ch4: VPD Tac Diff
Entries 579191
Tac

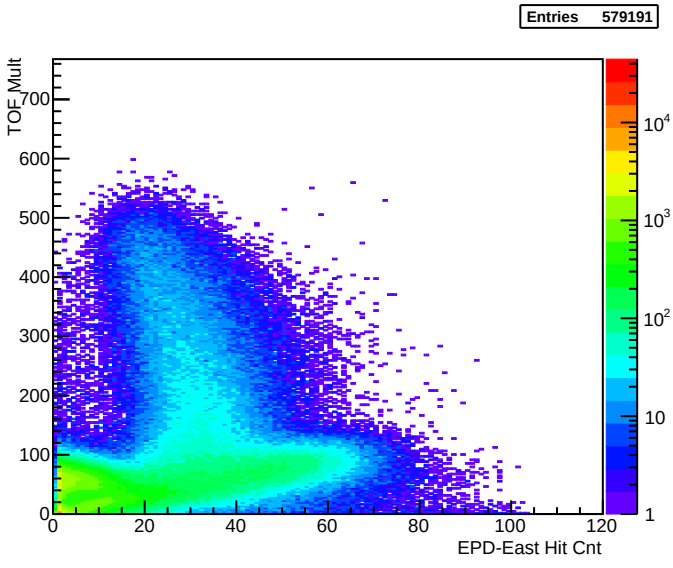

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

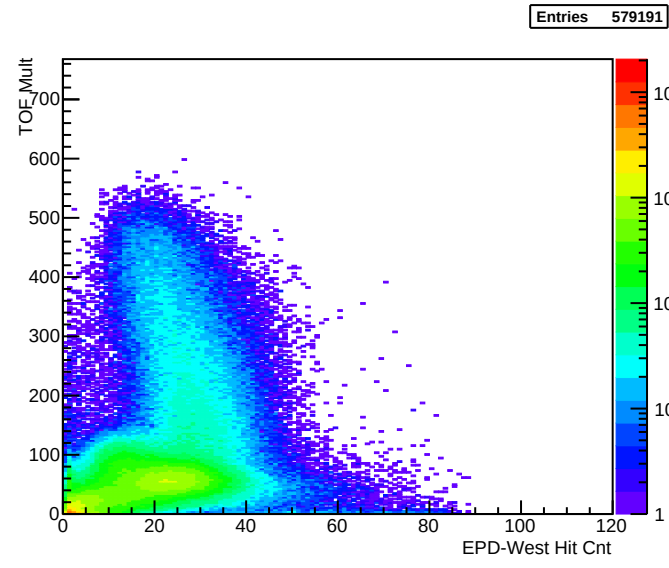

VT201 Input Ch4: VPD Adc Sum Th
Entries 1158382
280062
447918
299129
131273
East
West

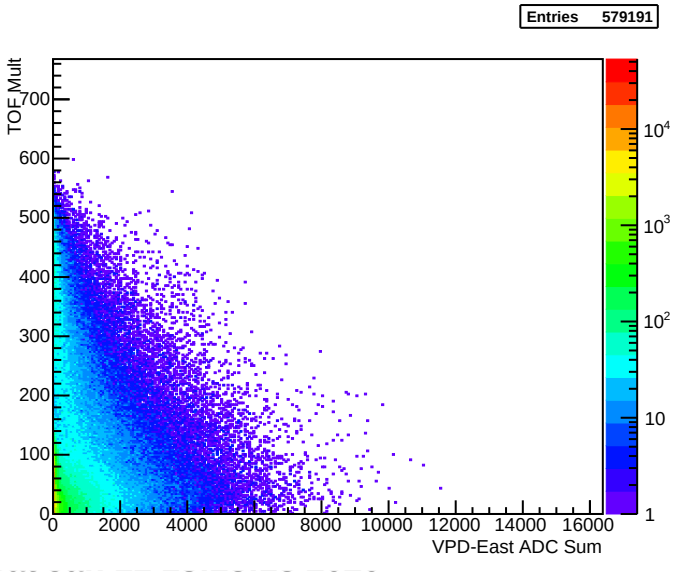

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

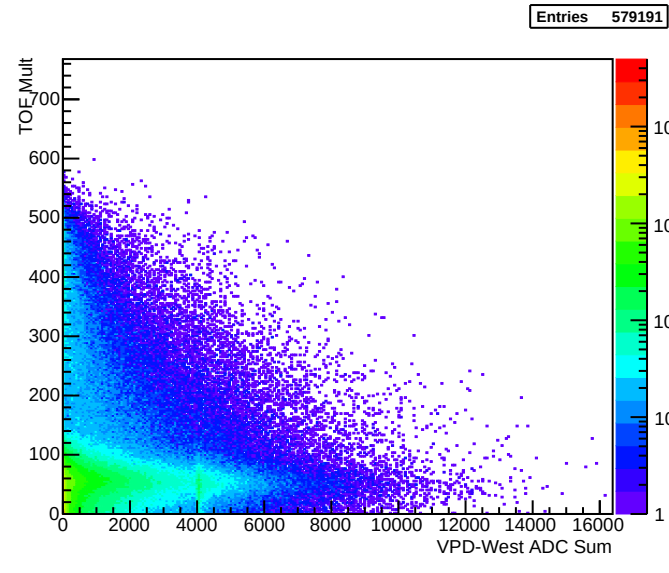

Entries 579191
TOF_Mult
BBC-S-East ADC Sum

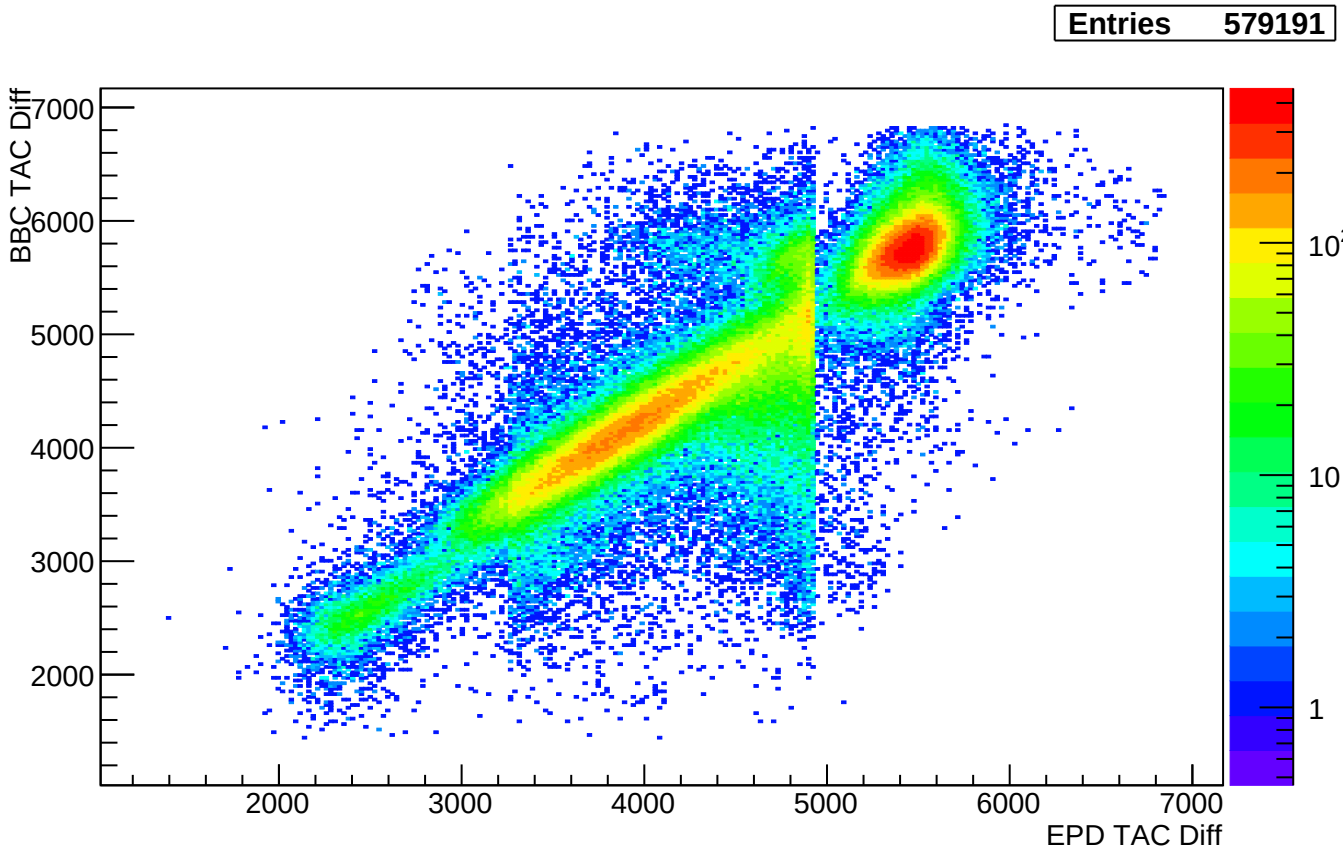

Entries 579191
TOF_Mult
BBC-S-West ADC Sum

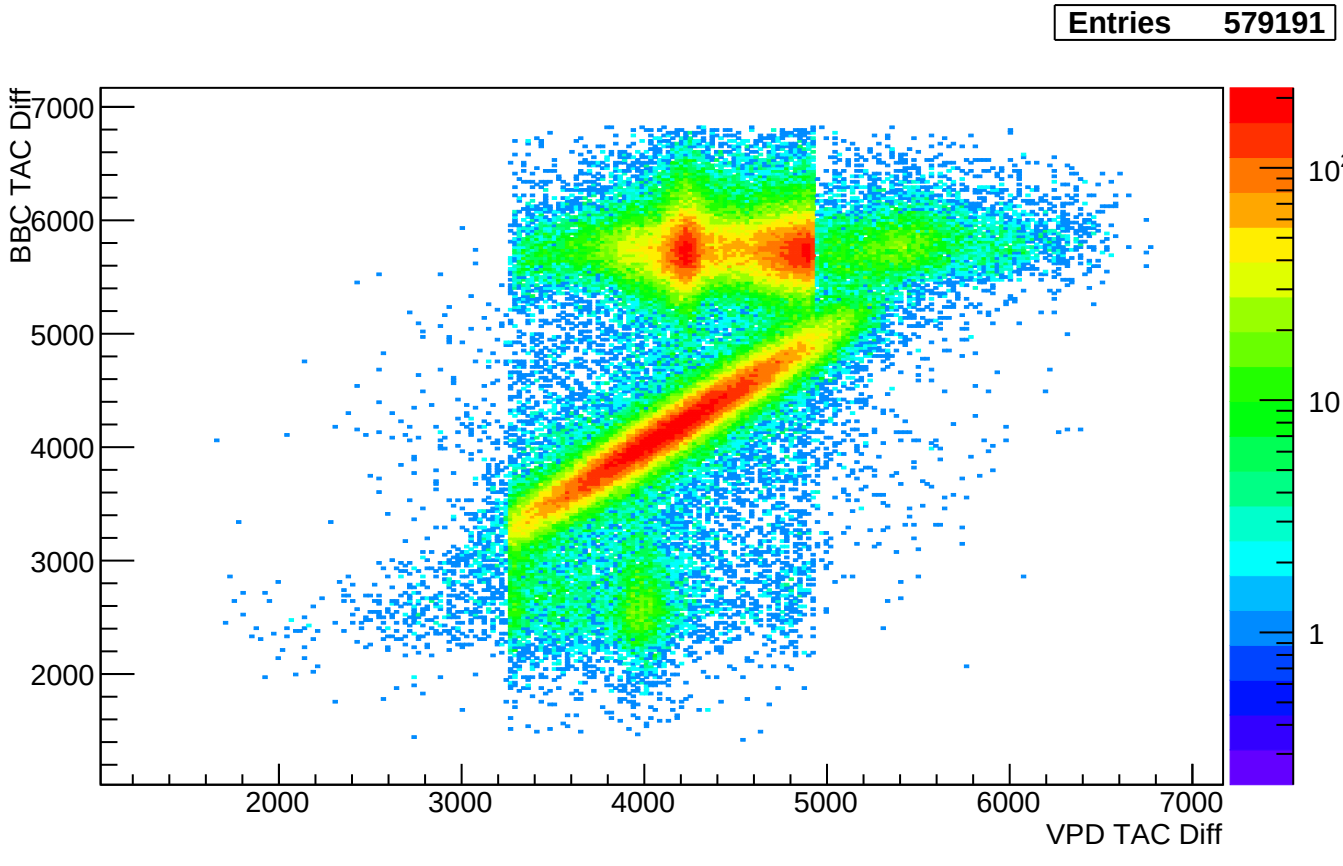

Entries 579191
TOF_Mult
EPD-East Hit Cnt

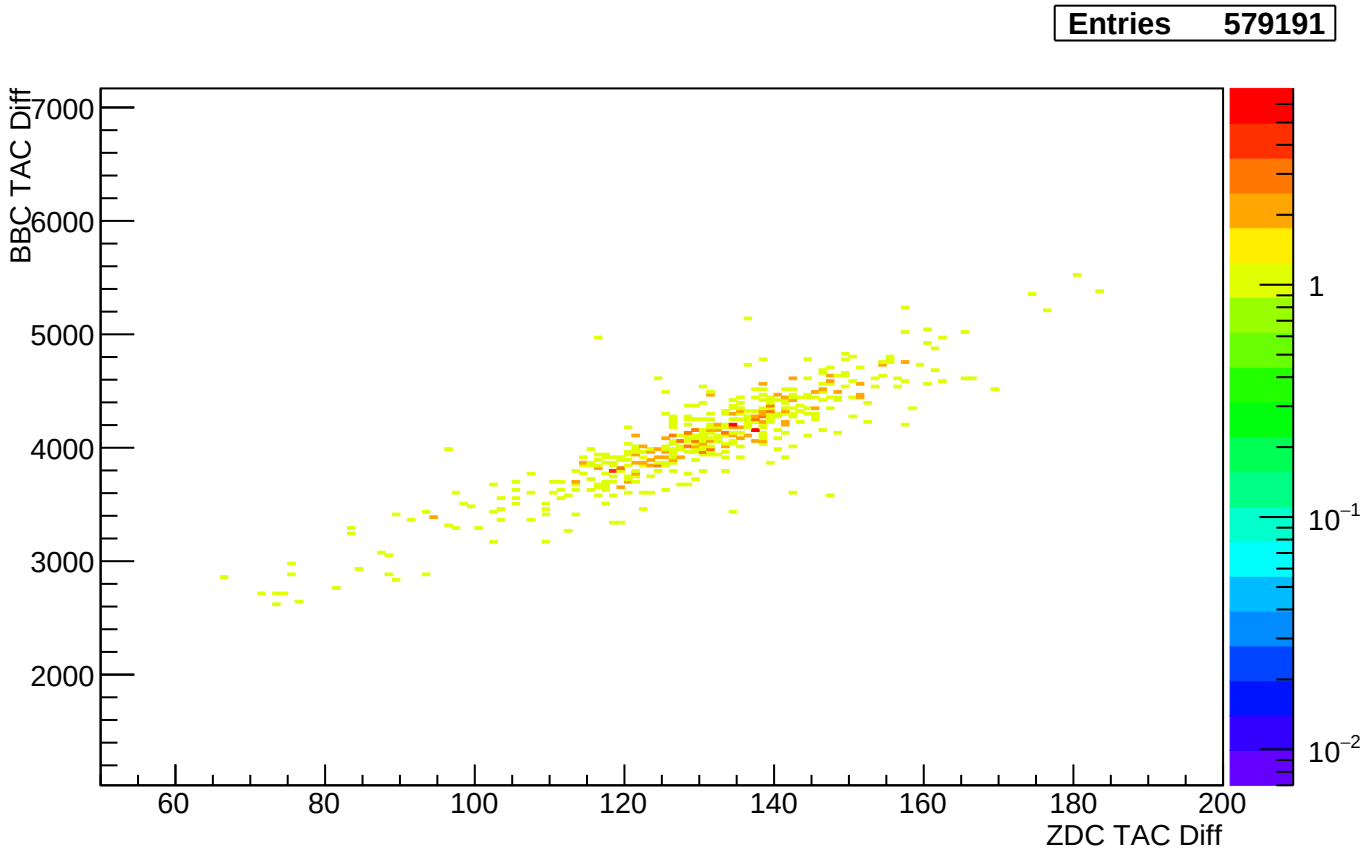

Entries 579191
TOF_Mult
EPD-West Hit Cnt

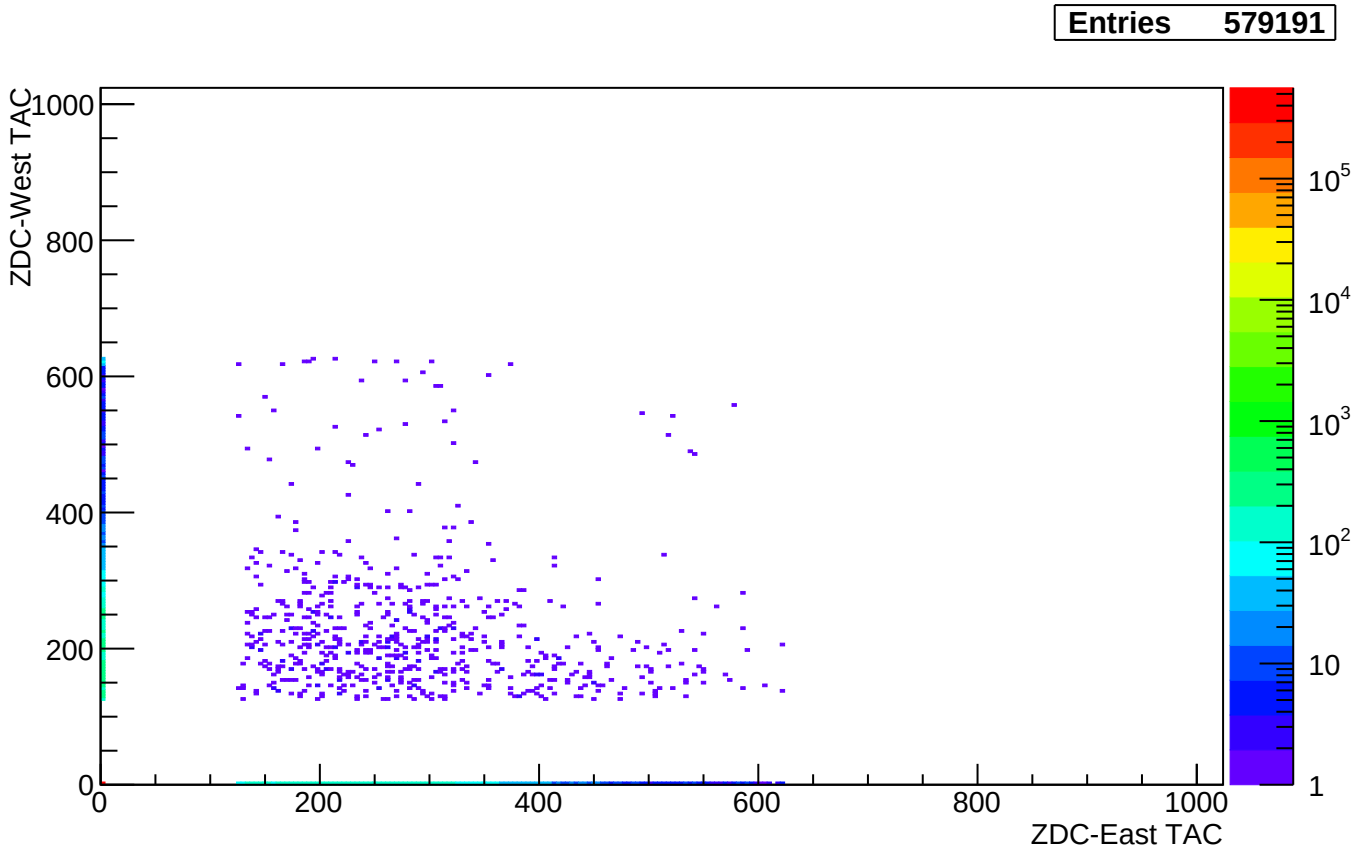

Entries 579191
TOF_Mult
VPD-East ADC Sum

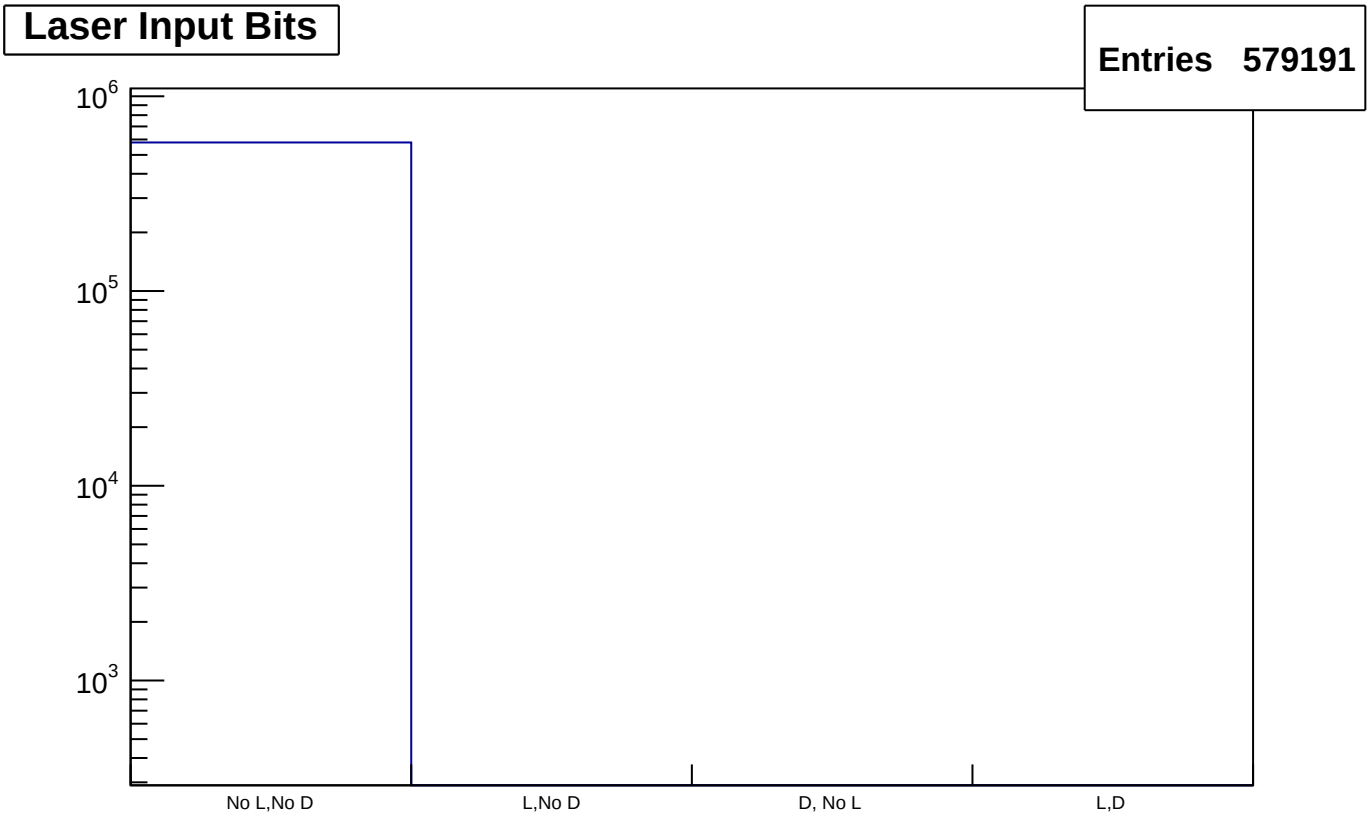

Entries 579191
TOF_Mult
VPD-West ADC Sum

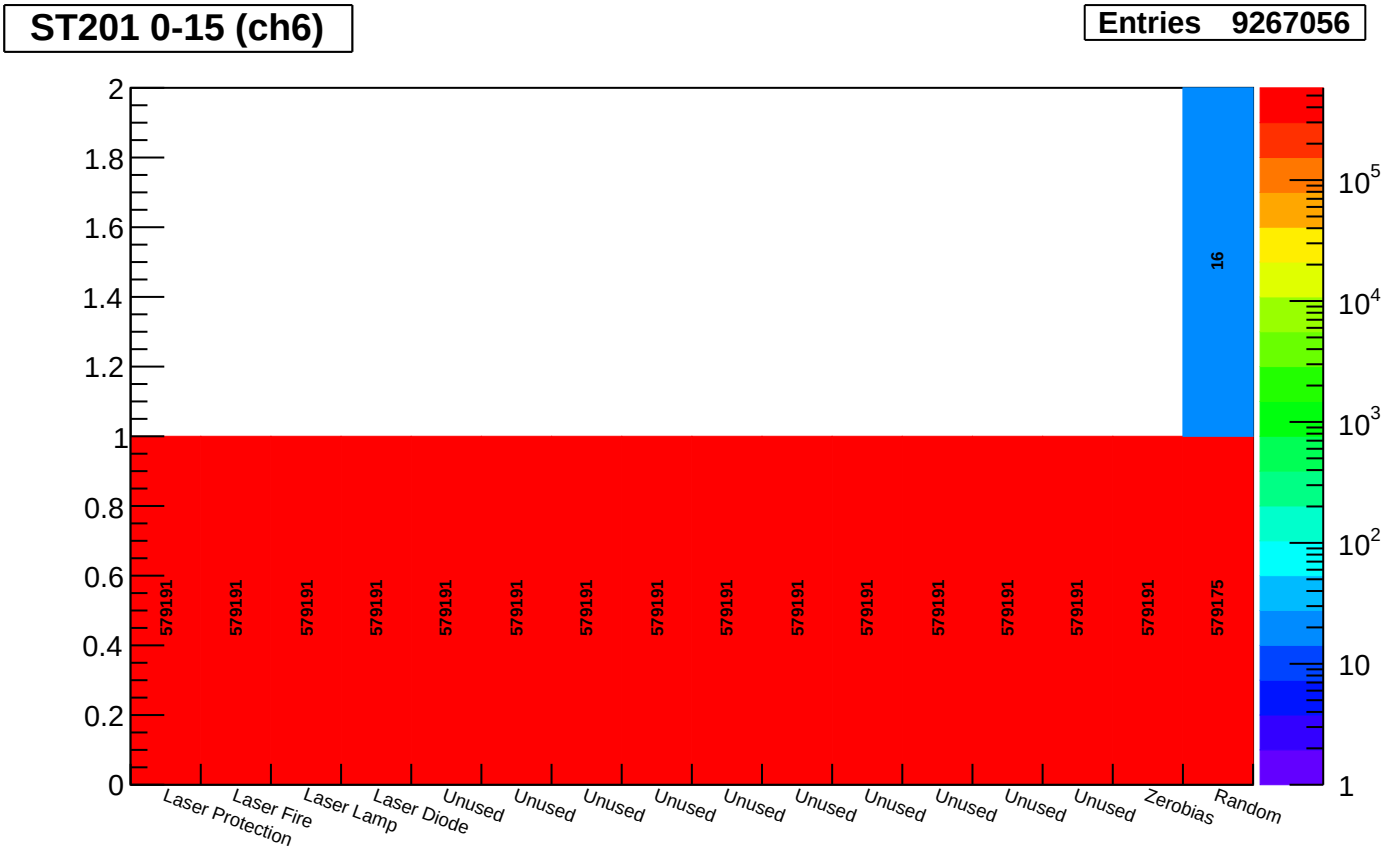

Entries 579191
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

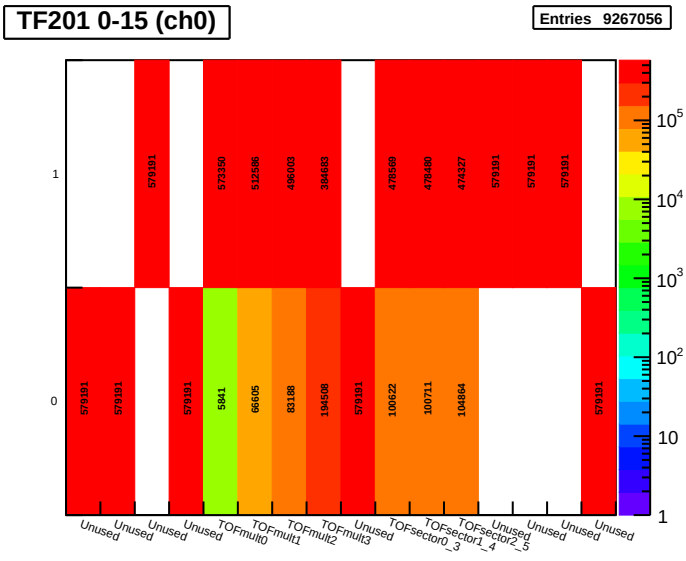

Entries 579191
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

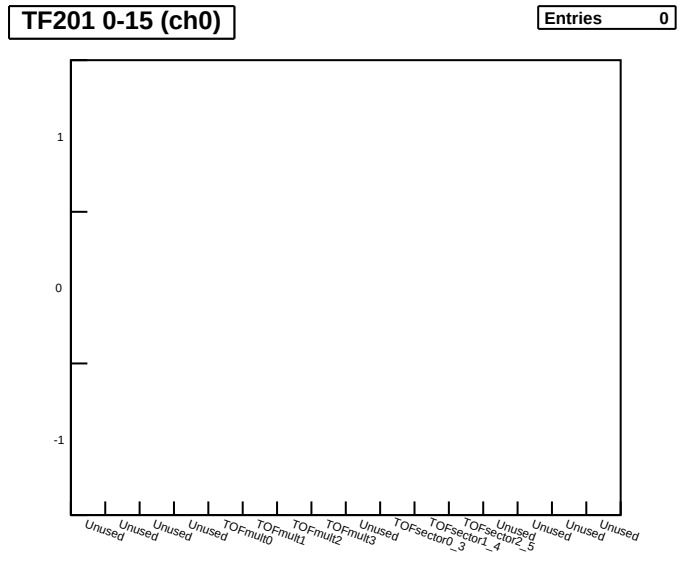

Entries 579191
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

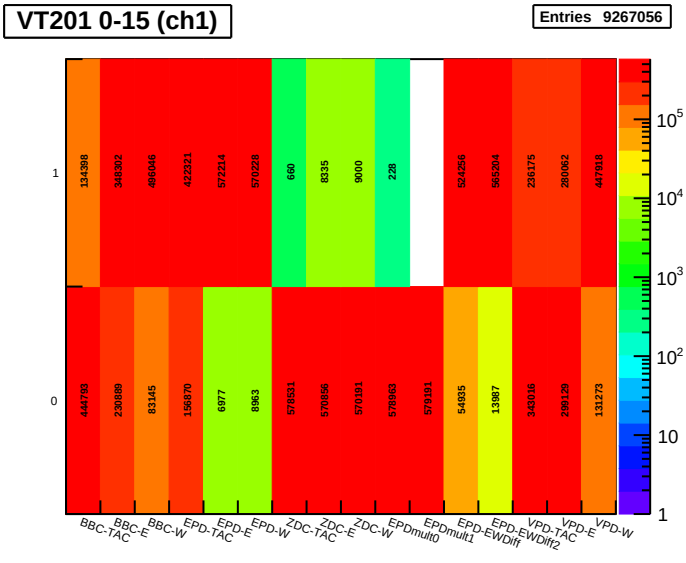

Entries 579191
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

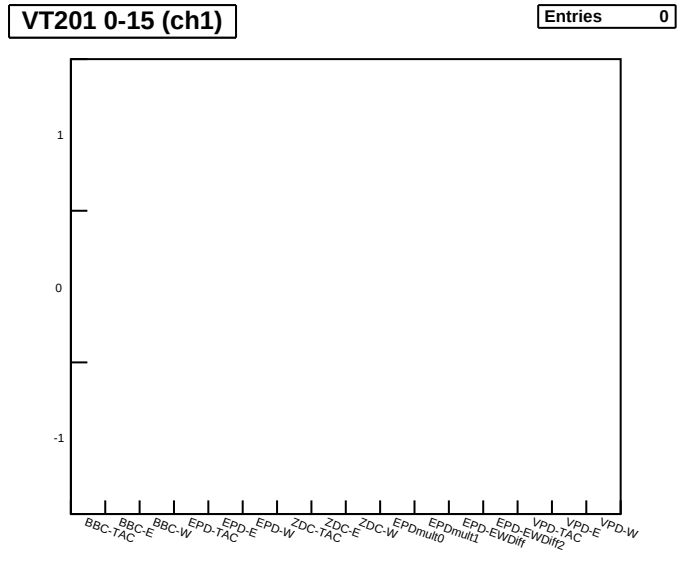

Laser Input Bits
Entries 579191
10^6
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

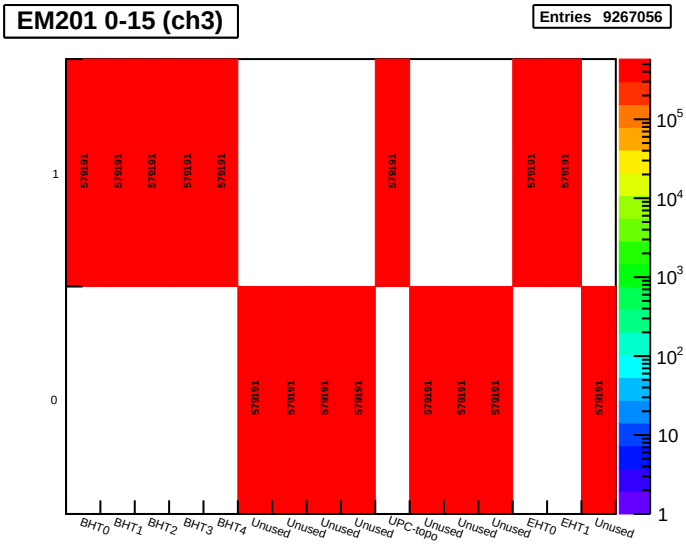

ST201 0-15 (ch6)
Entries 9267056
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
16
579191
579191
579191
579191
579191
579191
579191
579191
579191
579191
579191
579191
579191
579191
579191
579175
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

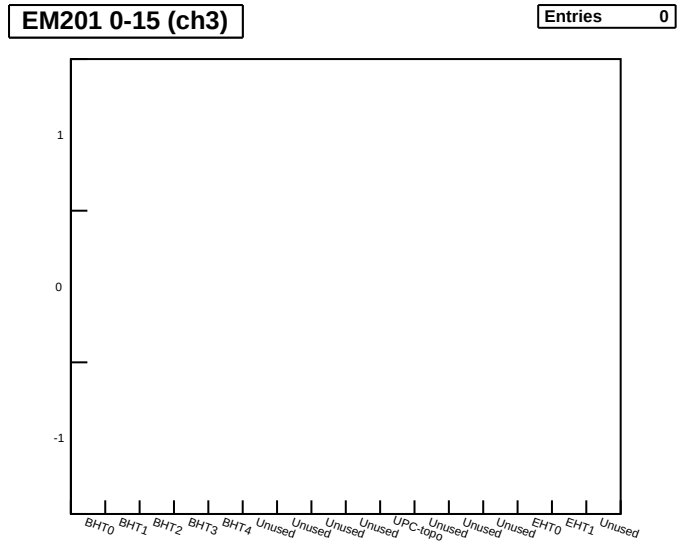

TF201 0-15 (ch0)
Entries 9267056
1
0
579191 579191 579191 579191 572350 512586 496003 384683 478569 478480 474327 579191 579191 579191
579191 579191 579191 5841 66605 83188 194508 579191 100622 100711 104864 579191
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 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


VT201 0-15 (ch1)
Entries 9267056
1
0
134398 346302 486046 422321 572214 570228 660 8335 9000 228 524256 565804 236175 280062 447918
444793 230889 83145 156870 6977 8963 578631 570956 570191 578963 579191 54935 13987 343016 299129 131273
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
10^5 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 9267056
1
0
579191 579191 579191 579191 579191 579191 579191 579191 579191
579191 579191 579191 579191 579191 579191 579191 579191
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^5 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