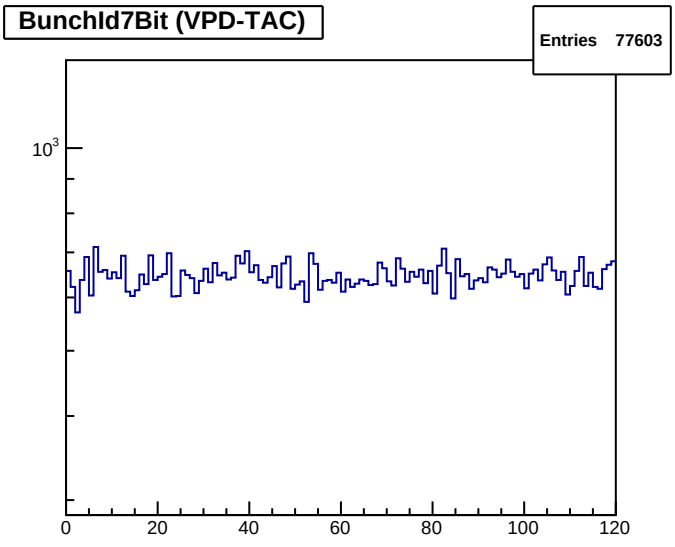
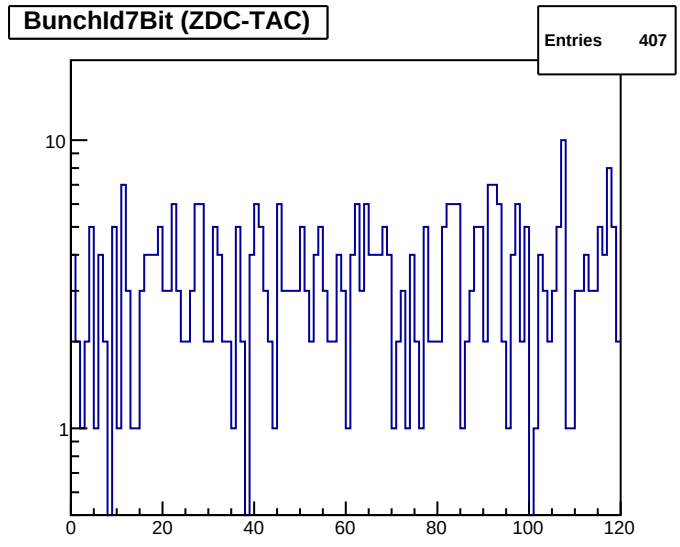
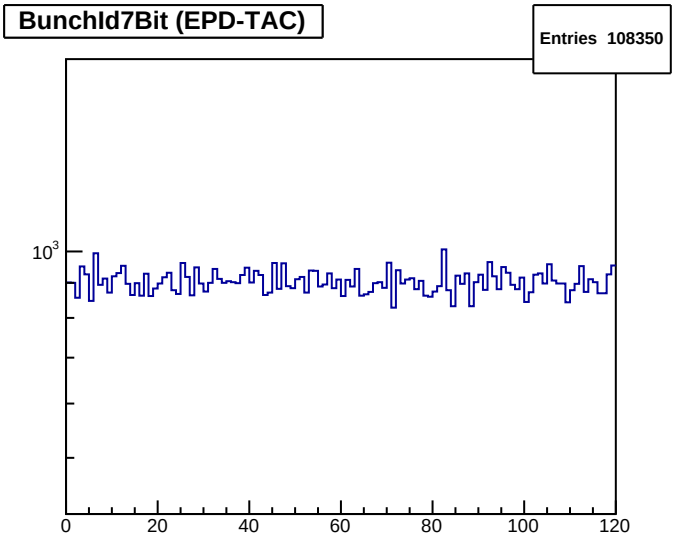
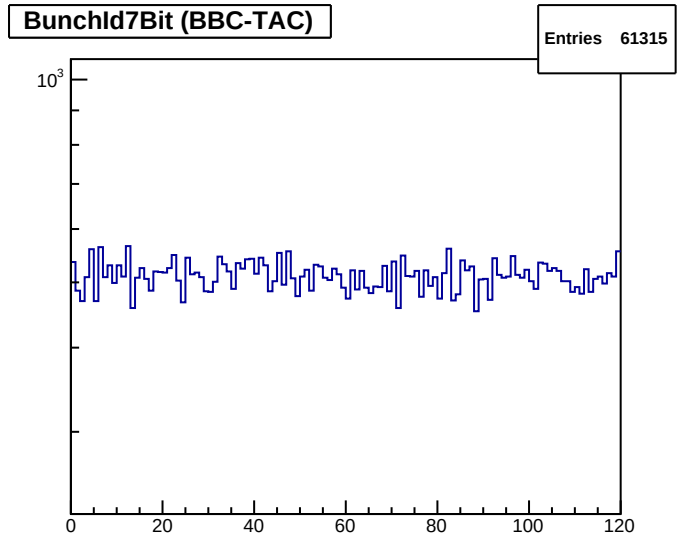
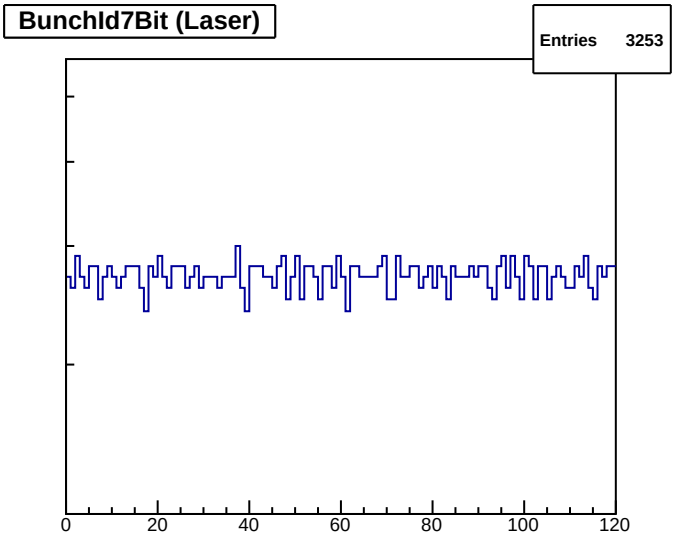
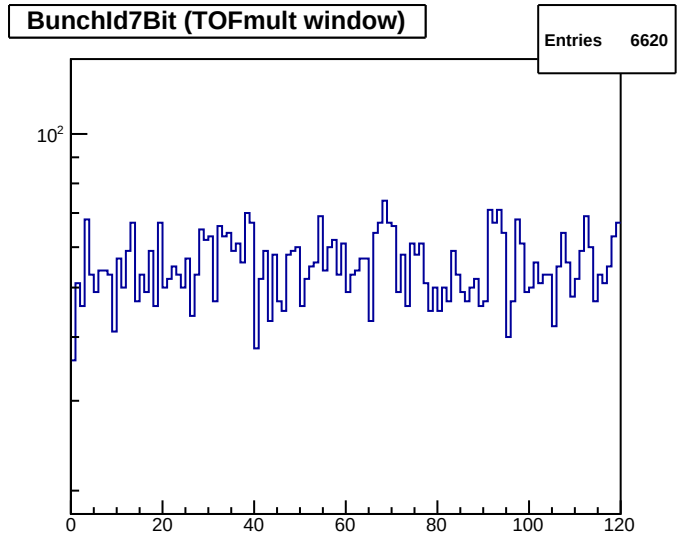

BunchId7Bit (VPD-TAC)
Entries 77603
10^3
0 20 40 60 80 100 120

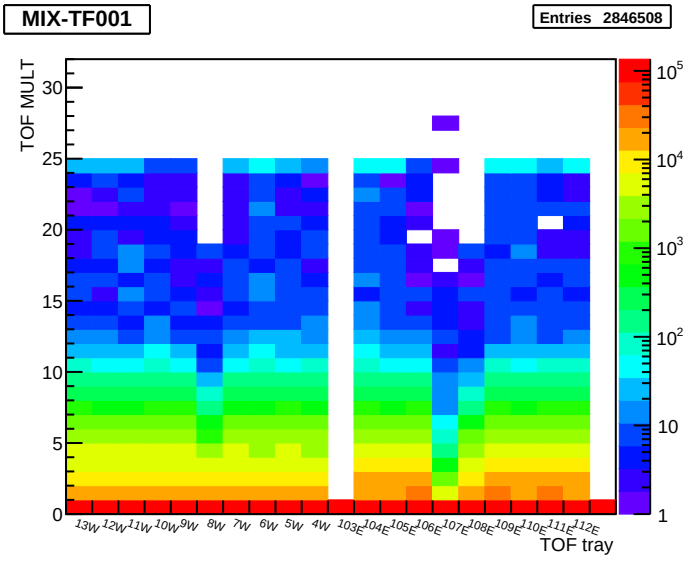

BunchId7Bit (ZDC-TAC)
Entries 407
10
1
0 20 40 60 80 100 120

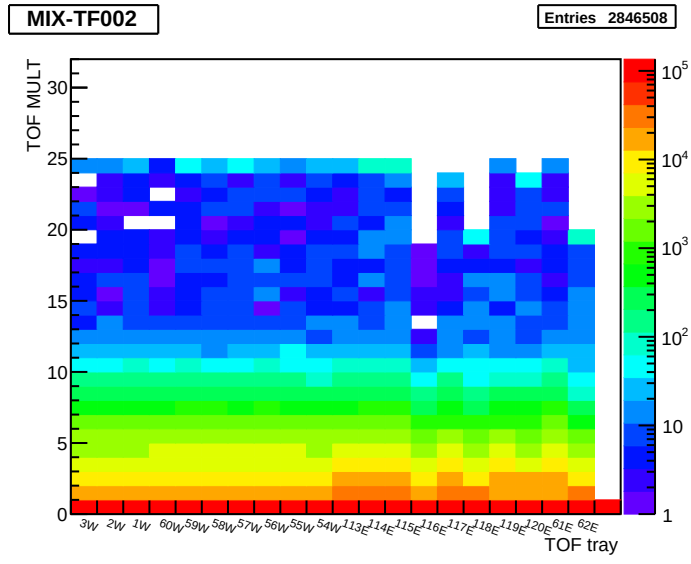

BunchId7Bit (EPD-TAC)
Entries 108350
10^3
0 20 40 60 80 100 120

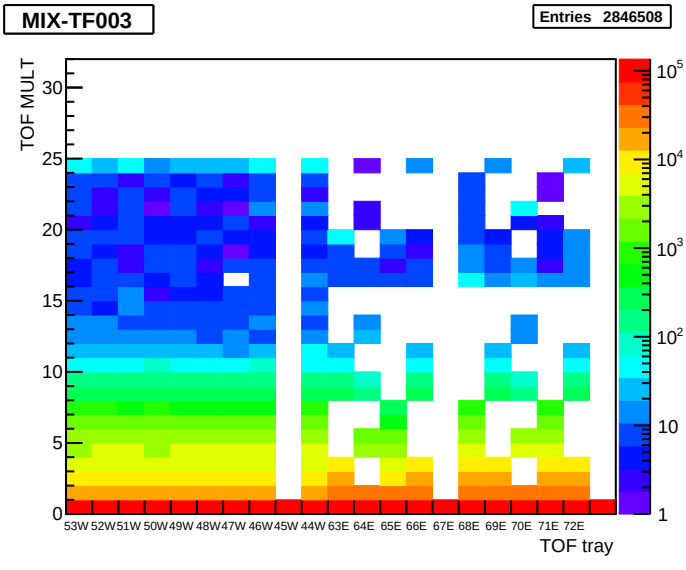

BunchId7Bit (BBC-TAC)
Entries 61315
10^3
0 20 40 60 80 100 120

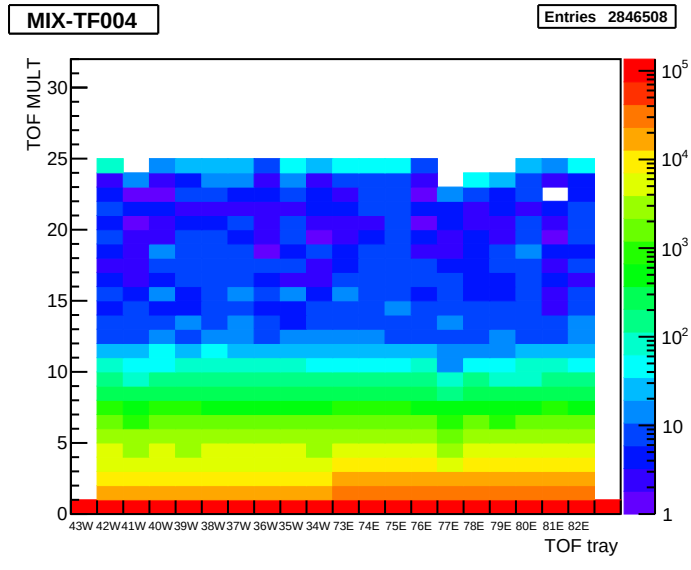

BunchId7Bit (Laser)
Entries 3253
0 20 40 60 80 100 120

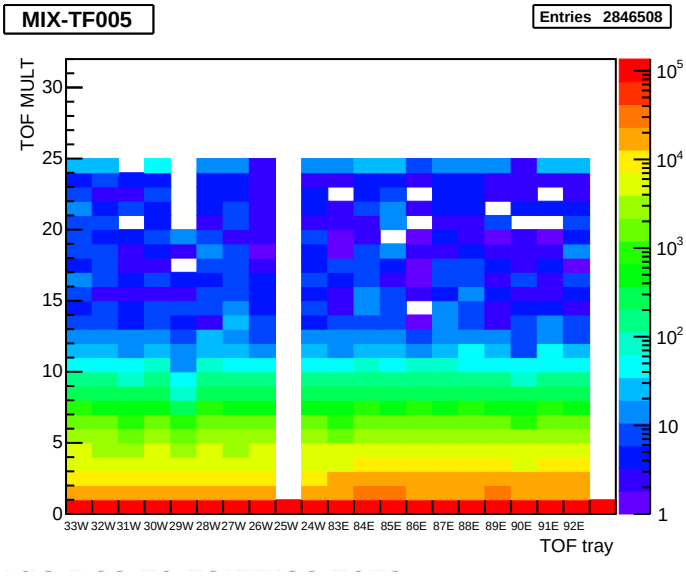

BunchId7Bit (TOFmult window)
Entries 6620
10^2
0 20 40 60 80 100 120

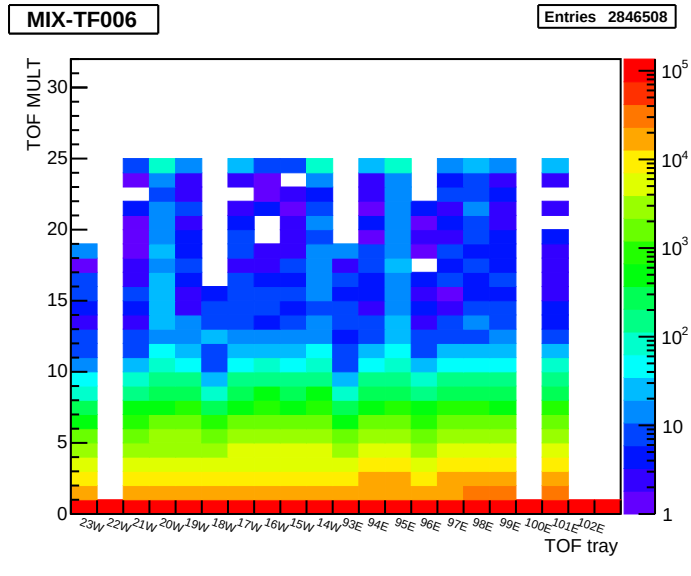

MIX-TF001
Entries 2846508
TOF MULT
TOF tray

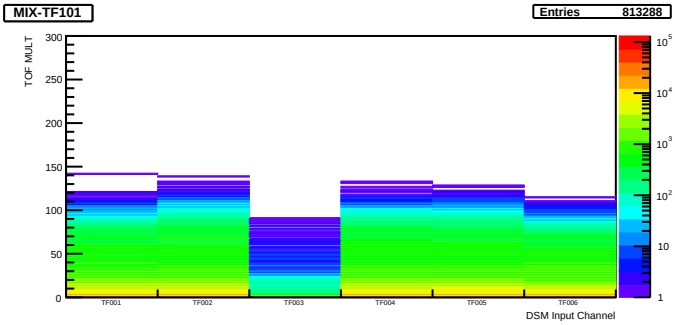

MIX-TF002
Entries 2846508
TOF MULT
TOF tray

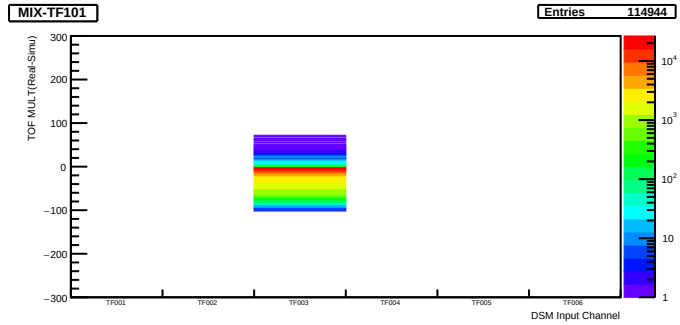

MIX-TF003
Entries 2846508
TOF MULT
TOF tray

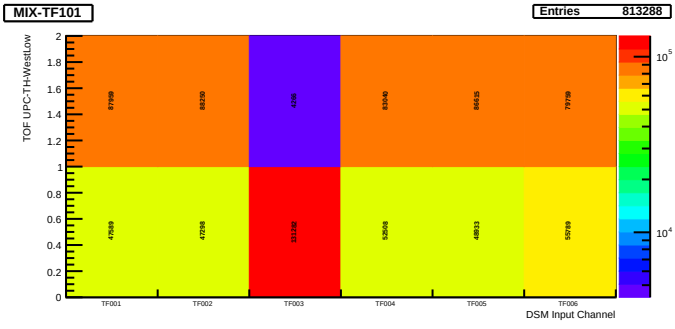

MIX-TF004
Entries 2846508
TOF MULT
TOF tray

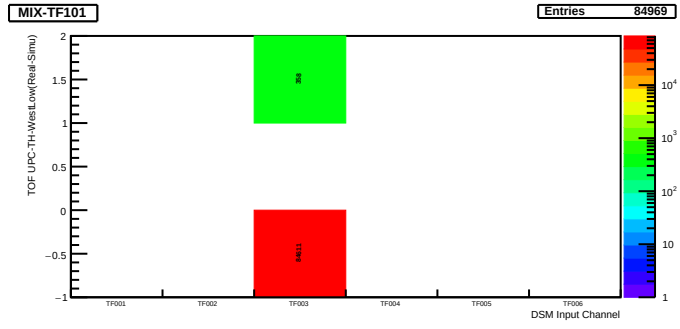

MIX-TF005
Entries 2846508
TOF MULT
TOF tray

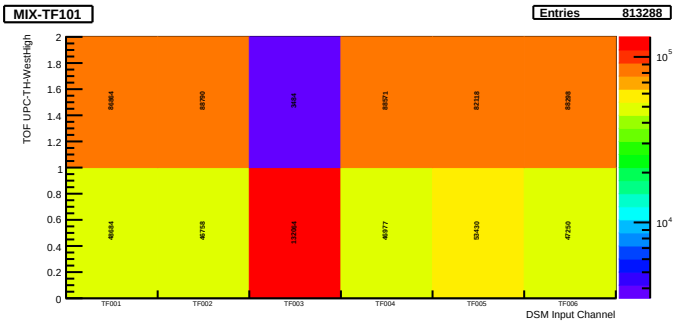

MIX-TF006
Entries 2846508
TOF MULT
TOF tray

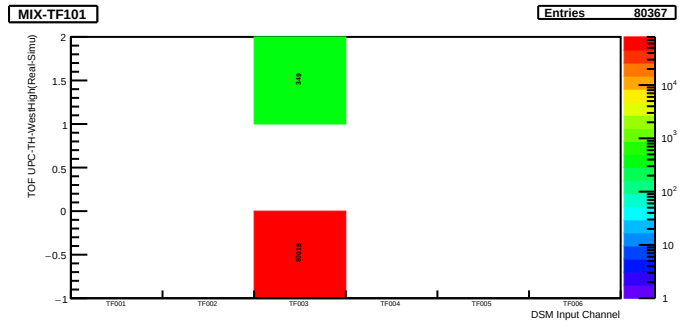

MIX-TF101
Entries 813288
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

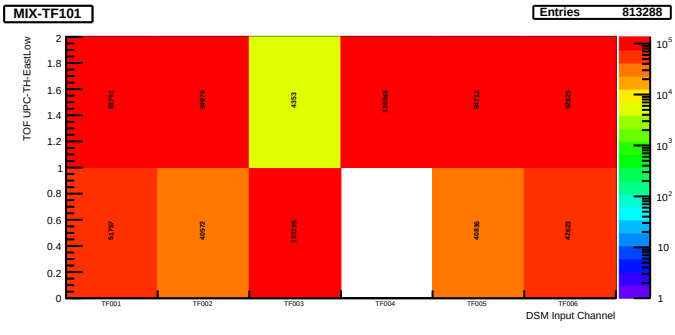

MIX-TF101
Entries 114944
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

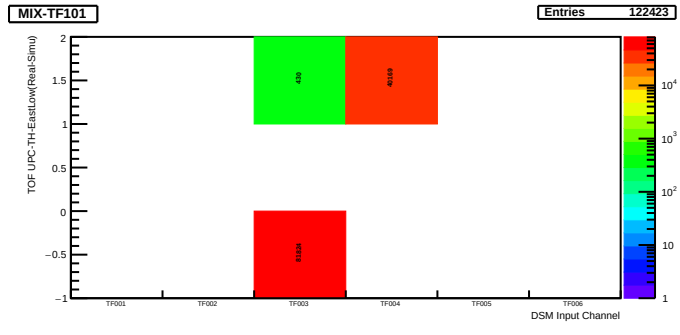

MIX-TF101
Entries 813288
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

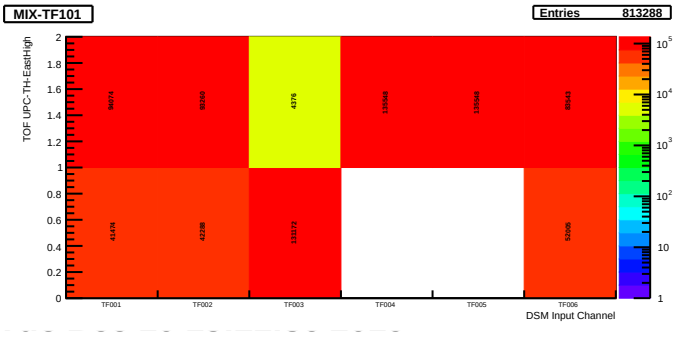

MIX-TF101
Entries 84969
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

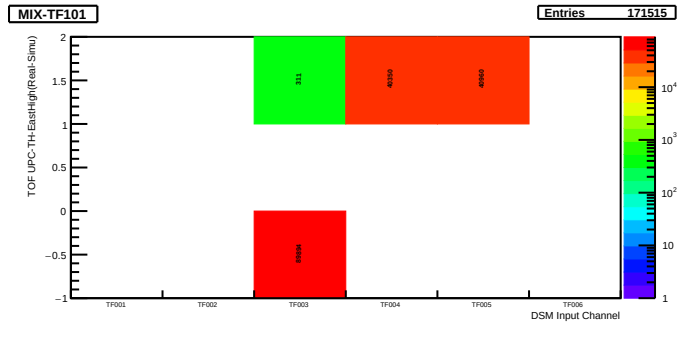

MIX-TF101
Entries 813288
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

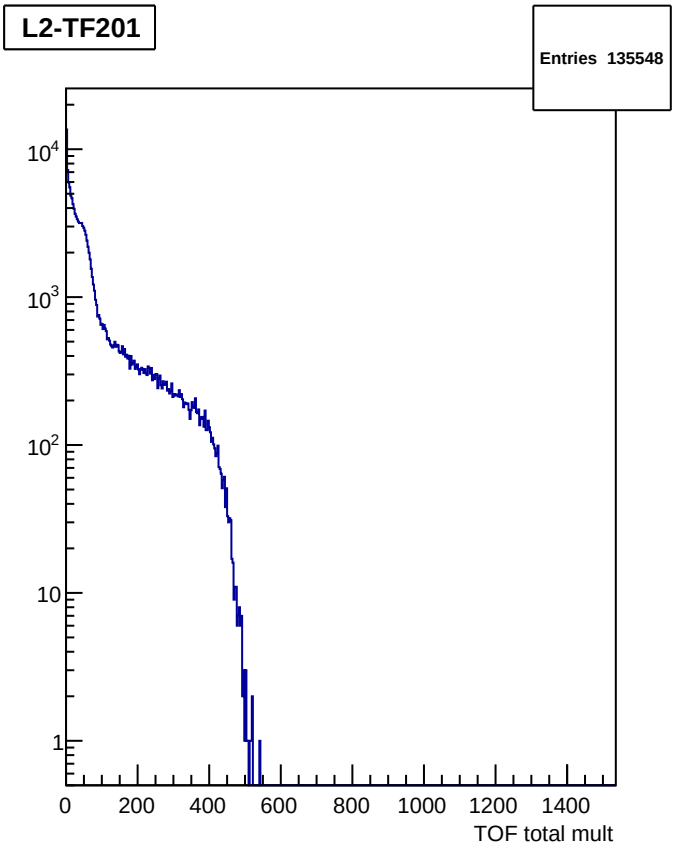

MIX-TF101
Entries 80367
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

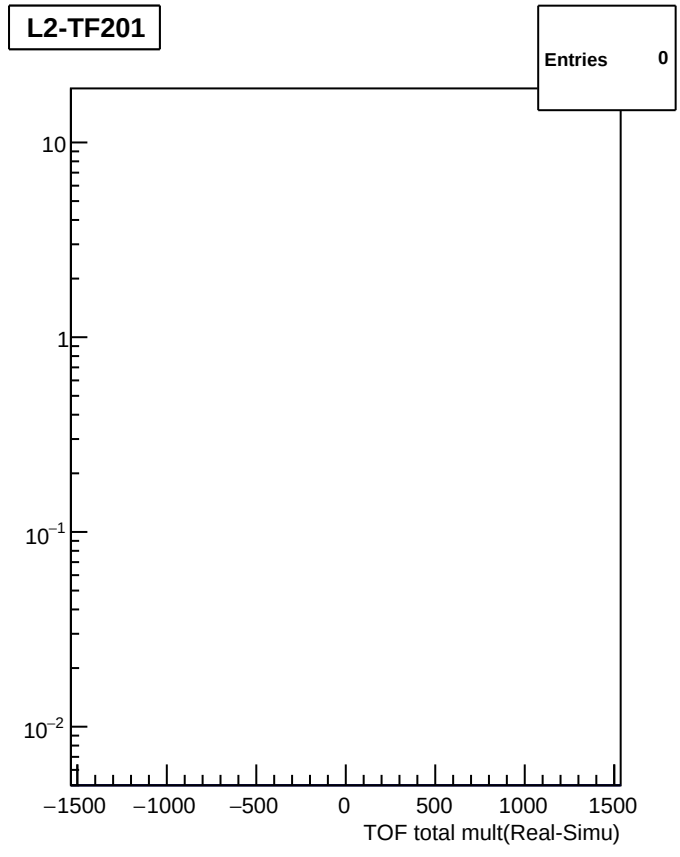

MIX-TF101
Entries 813288
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

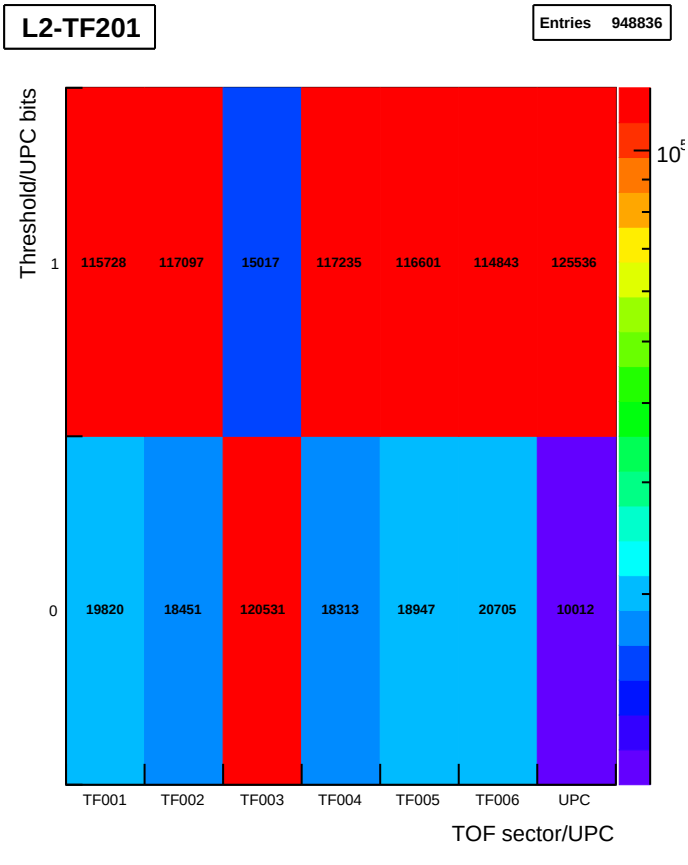

MIX-TF101
Entries 122423
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

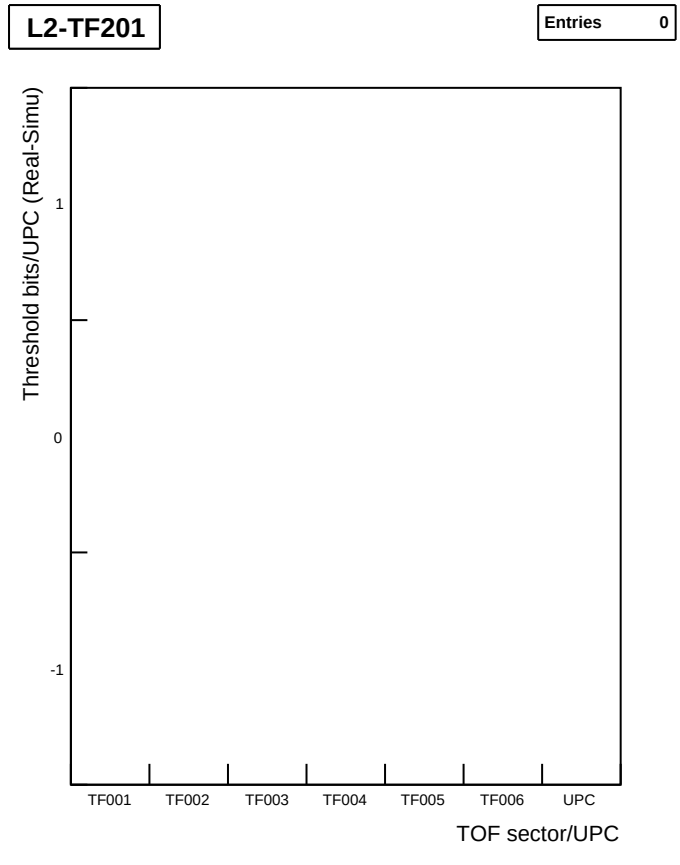

MIX-TF101
Entries 813288
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

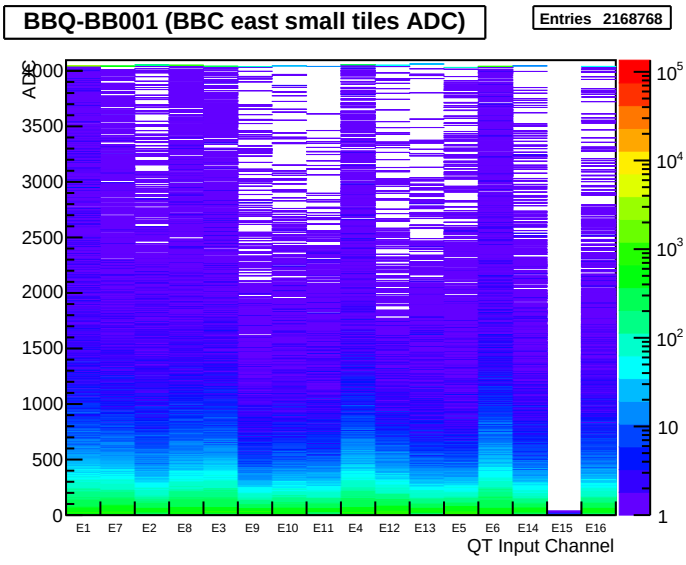

MIX-TF101
Entries 171515
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

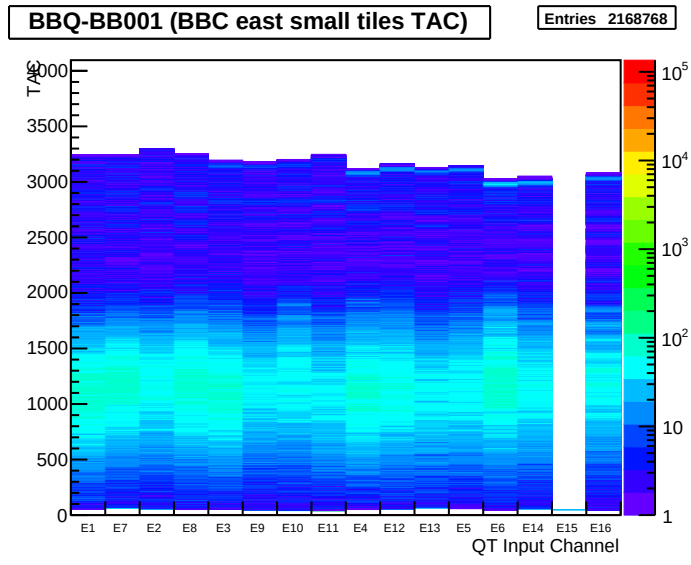

L2-TF201
Entries 135548
TOF total mult

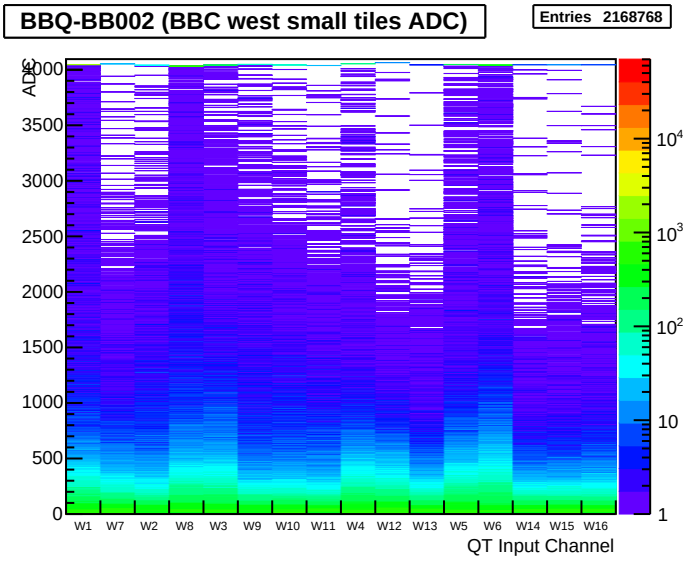

L2-TF201
Entries 0
TOF total mult(Real-Simu)

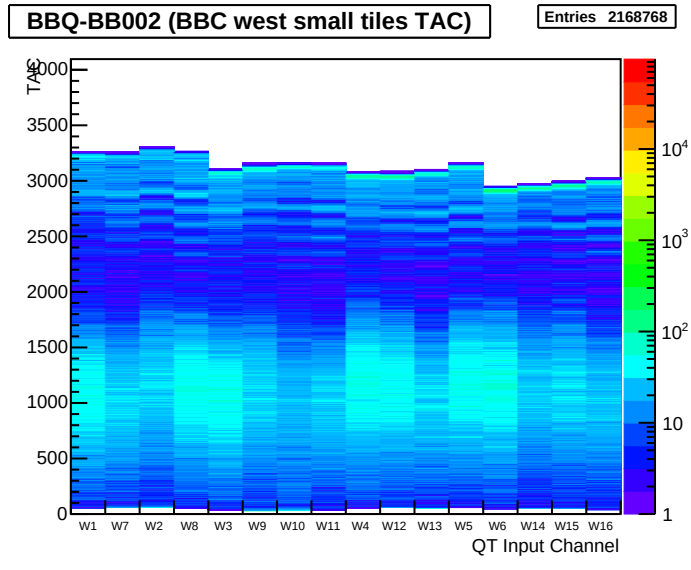

L2-TF201
Entries 948836
Threshold/UPC bits
115728
117097
15017
117235
116601
114843
125536
19820
18451
120531
18313
18947
20705
10012
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

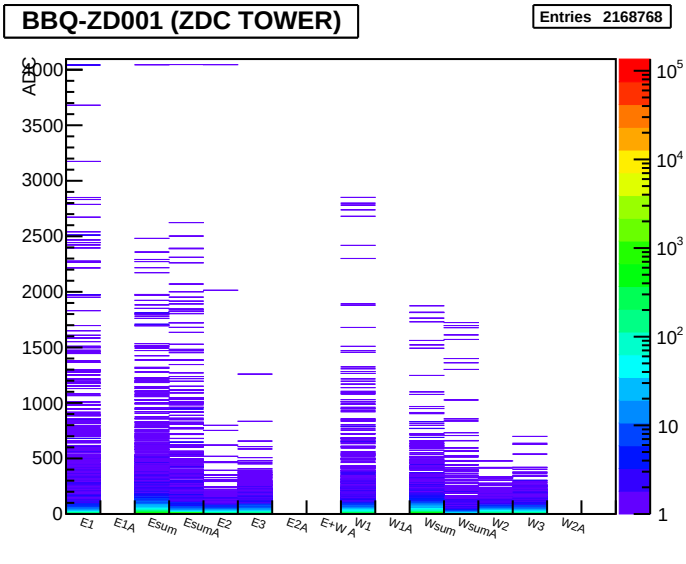

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

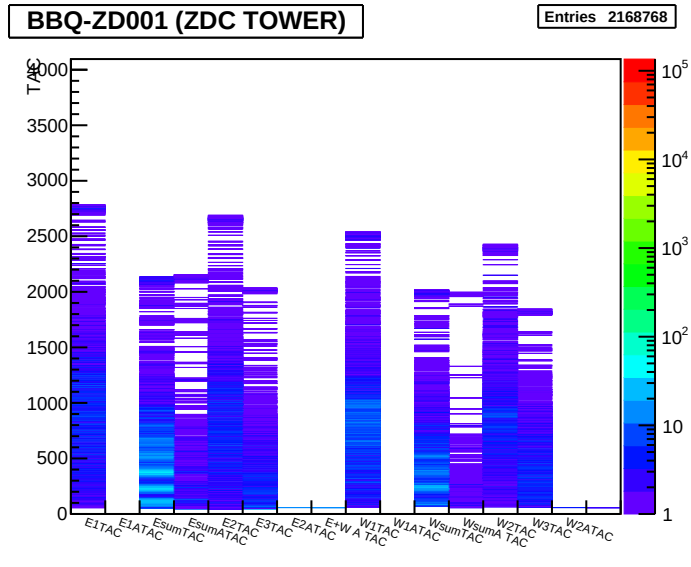

BBQ-BB001 (BBC east small tiles ADC)
Entries 2168768
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

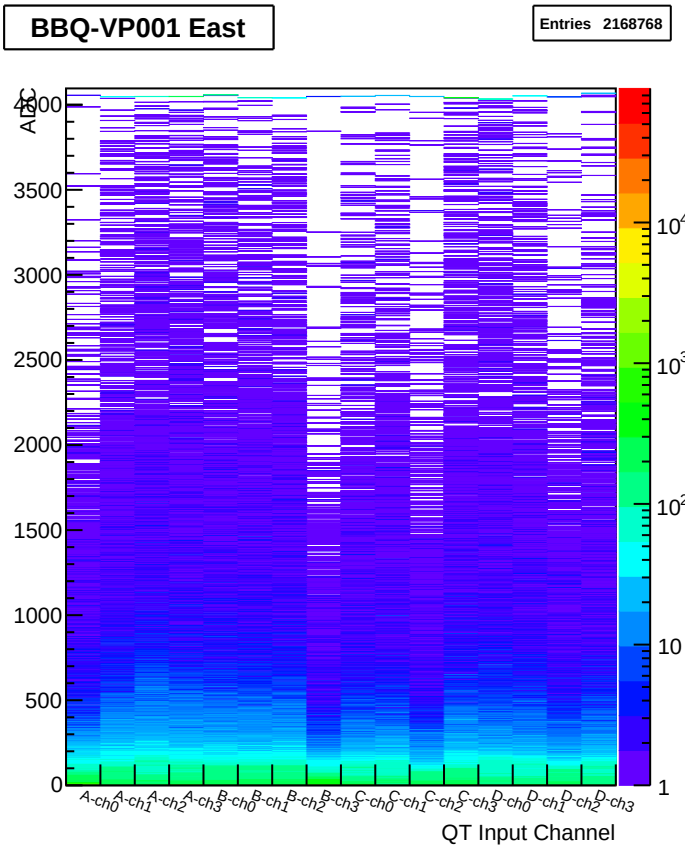

BBQ-BB001 (BBC east small tiles TAC)
Entries 2168768
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

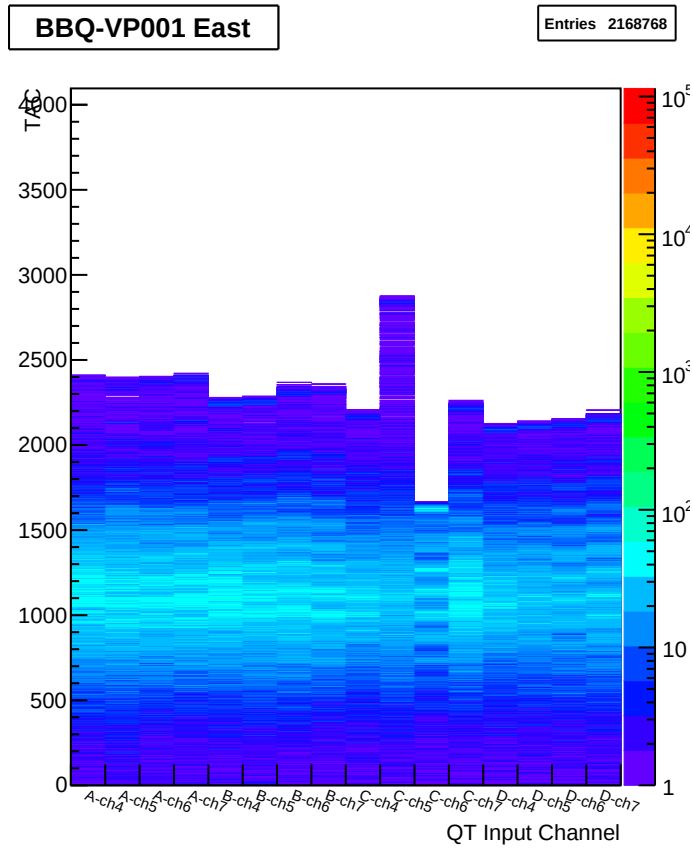

BBQ-BB002 (BBC west small tiles ADC)
Entries 2168768
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

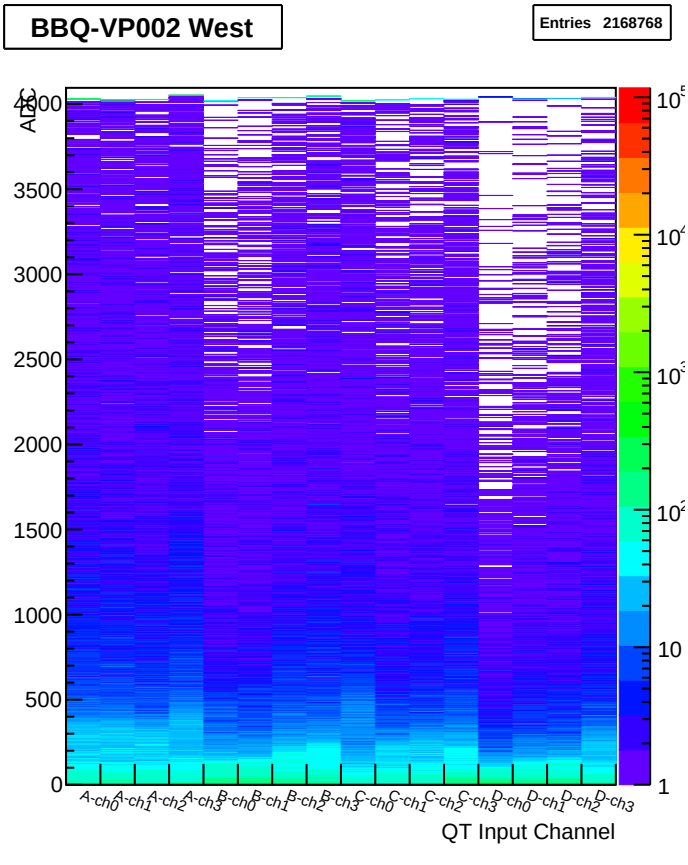

BBQ-BB002 (BBC west small tiles TAC)
Entries 2168768
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

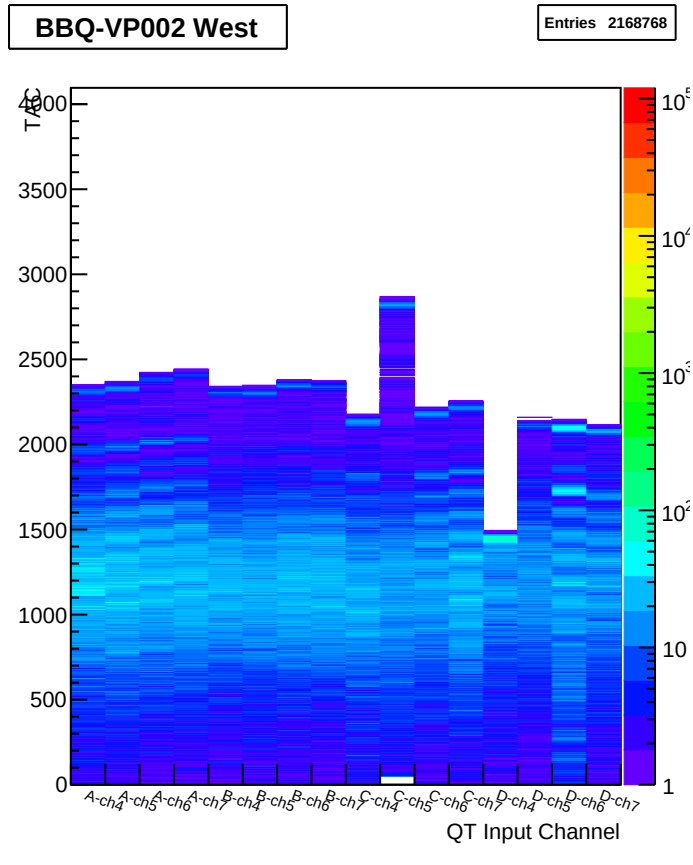

BBQ-ZD001 (ZDC TOWER)
Entries 2168768
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

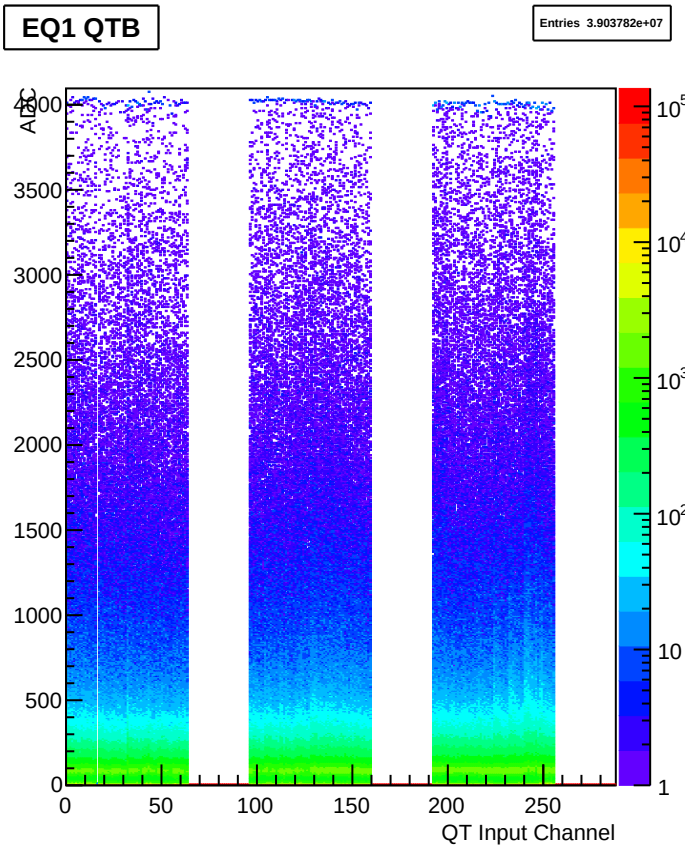

BBQ-ZD001 (ZDC TOWER)
Entries 2168768
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

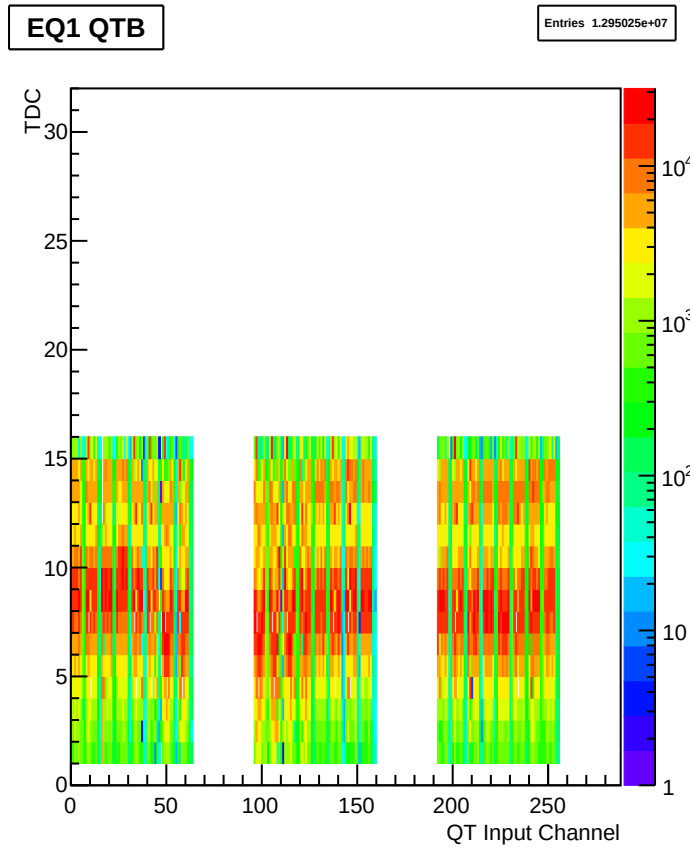

BBQ-VP001 East
Entries 2168768
ADC
QT Input Channel

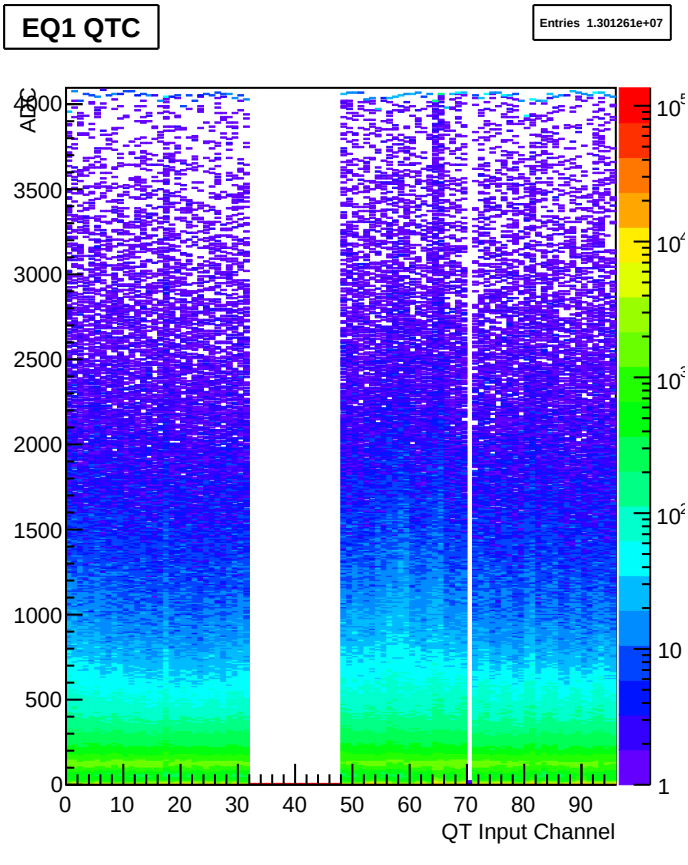

BBQ-VP001 East
Entries 2168768
TADC
QT Input Channel

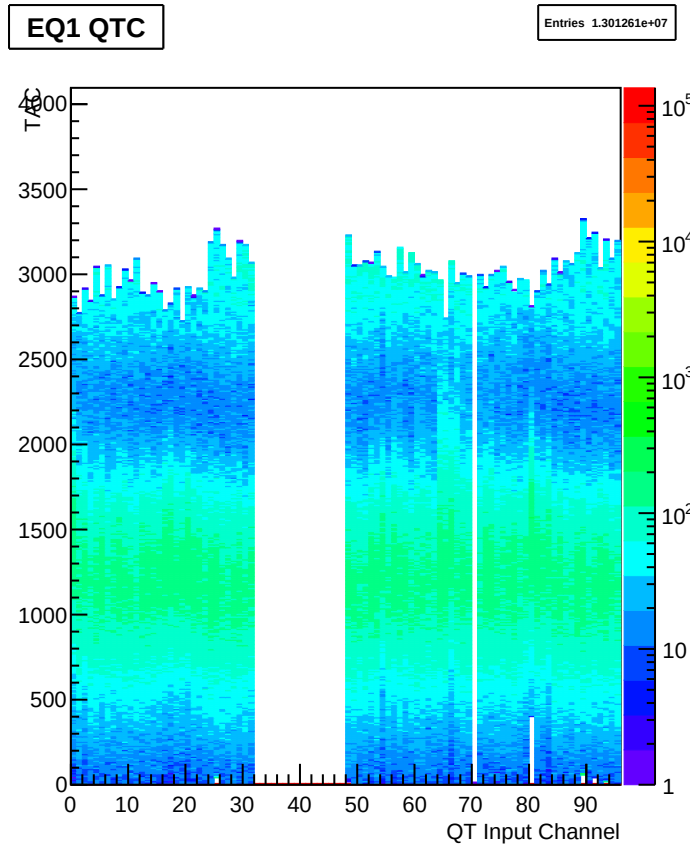

BBQ-VP002 West
Entries 2168768
ADC
QT Input Channel

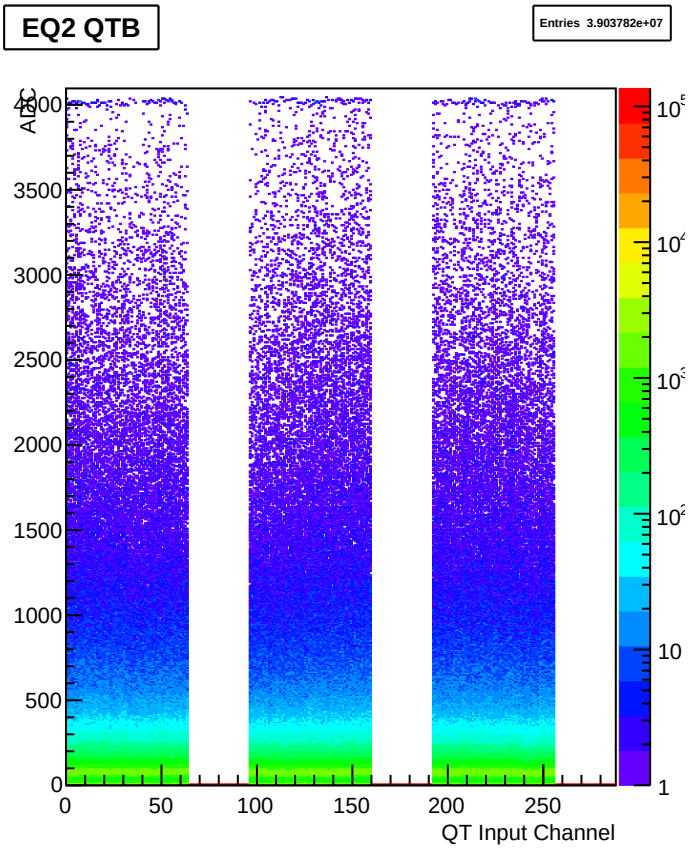

BBQ-VP002 West
Entries 2168768
TADC
QT Input Channel

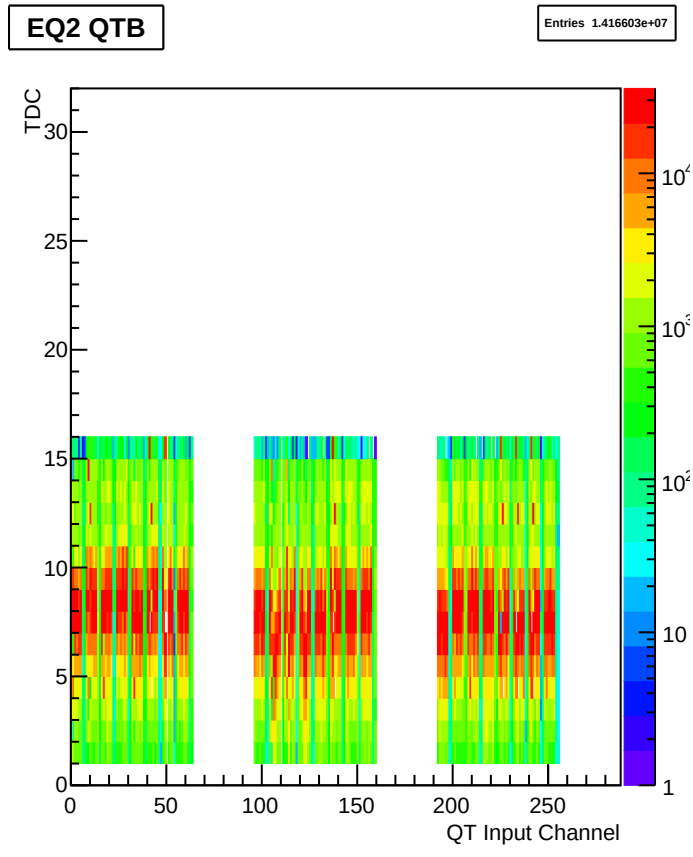

EQ1 QTB
Entries 3.903782e+07
ADC
QT Input Channel

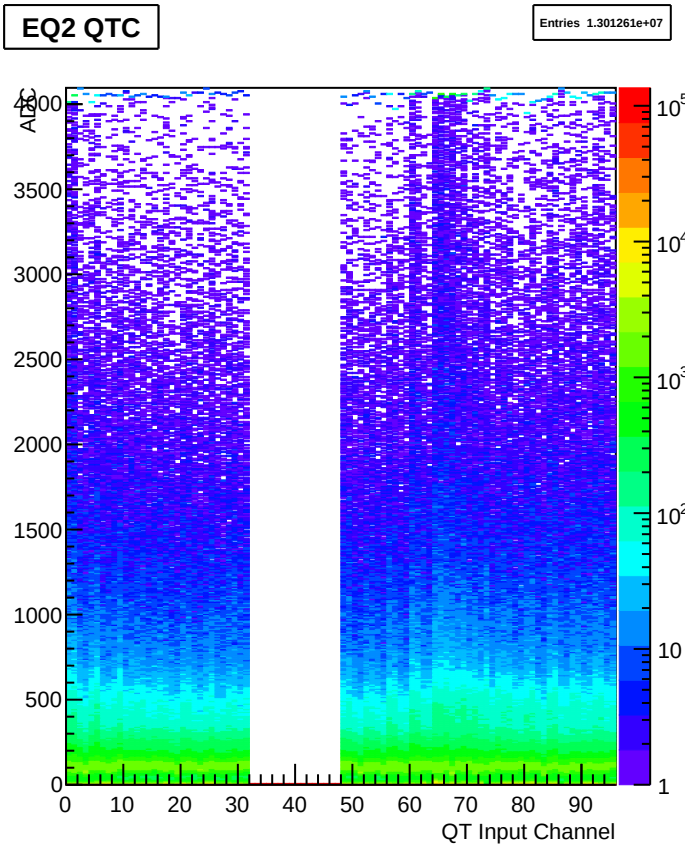

EQ1 QTB
Entries 1.295025e+07
TDC
QT Input Channel

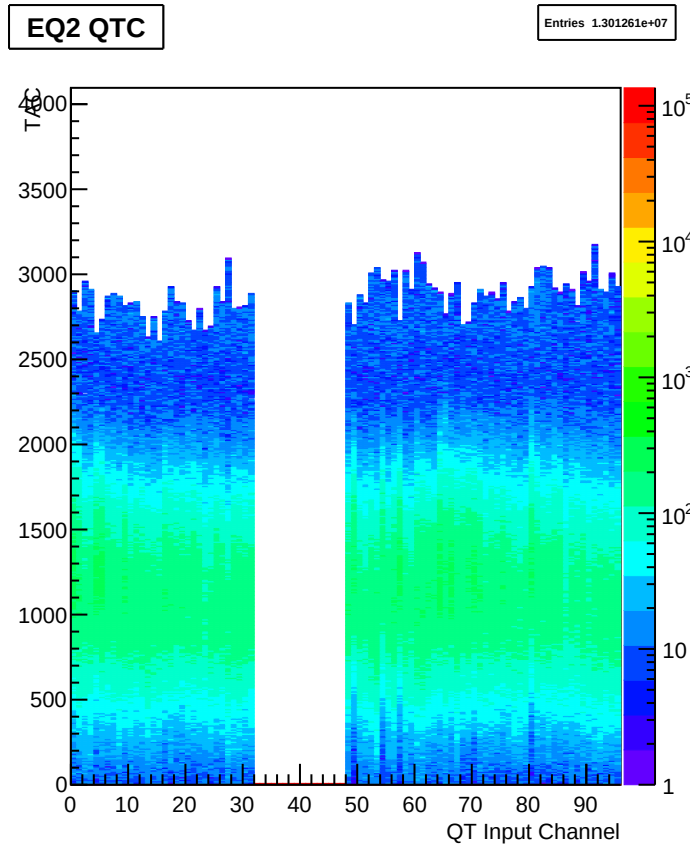

EQ1 QTC
Entries 1.301261e+07
ADC
QT Input Channel

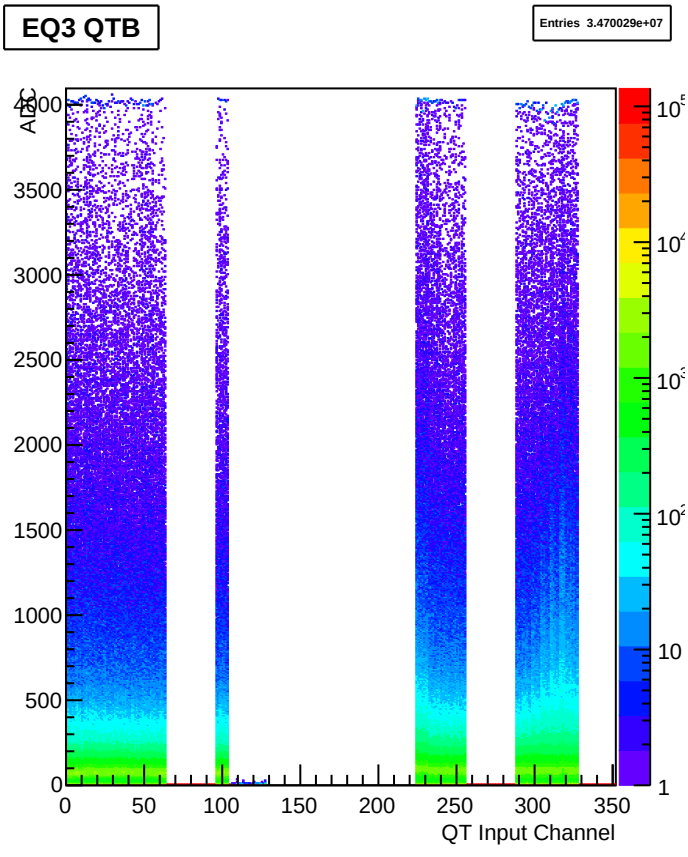

EQ1 QTC
Entries 1.301261e+07
TADC
QT Input Channel

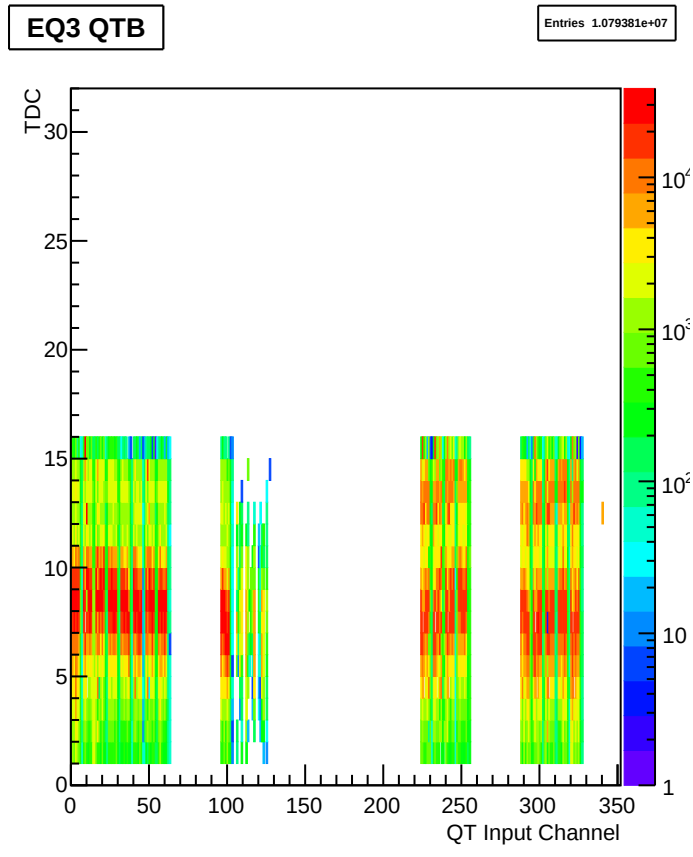

EQ2 QTB
Entries 3.903782e+07
ADC
QT Input Channel

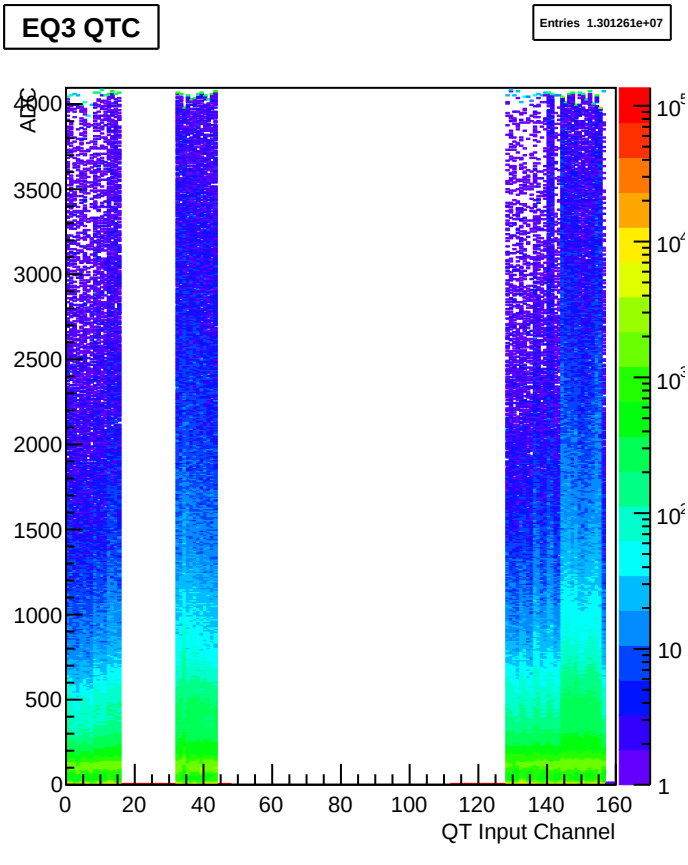

EQ2 QTB
Entries 1.416603e+07
TDC
QT Input Channel

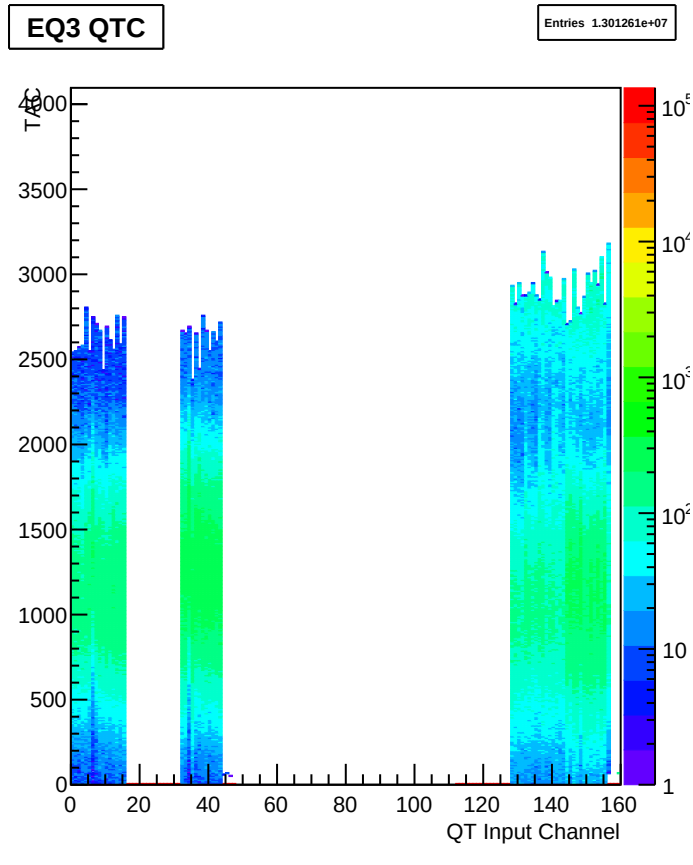

EQ2 QTC
Entries 1.301261e+07
ADC
QT Input Channel

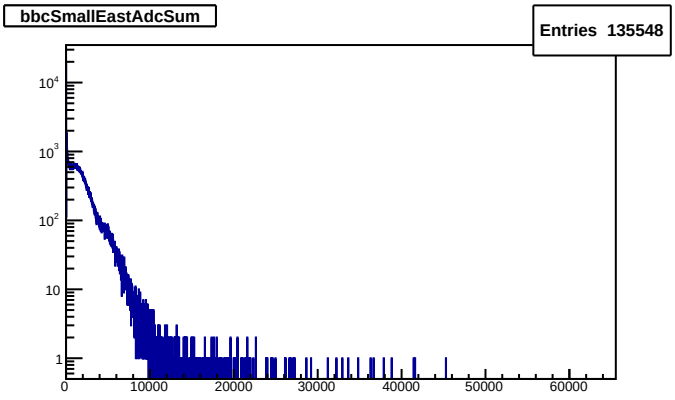

EQ2 QTC
Entries 1.301261e+07
TADC
QT Input Channel

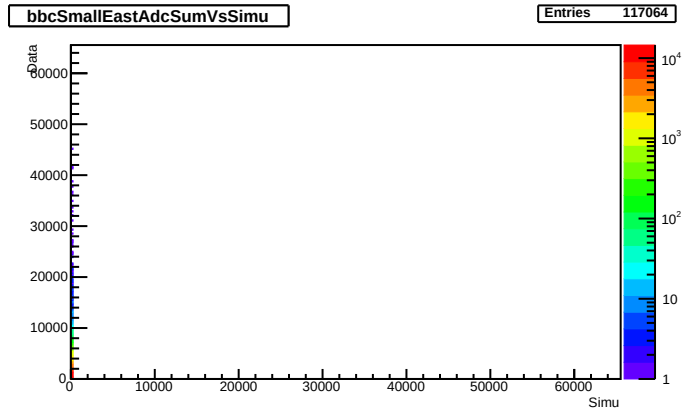

EQ3 QTB
Entries 3.470029e+07
ADC
QT Input Channel

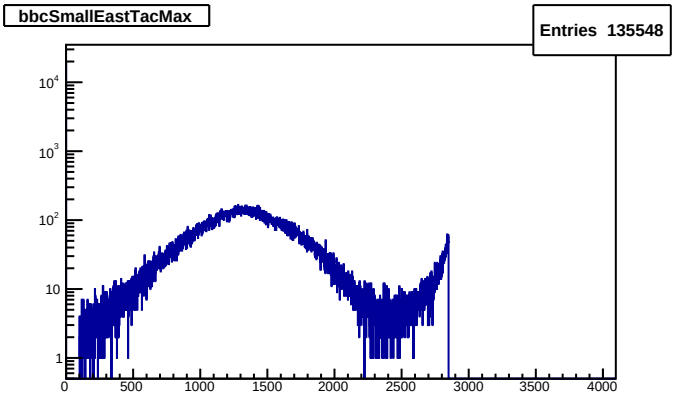

EQ3 QTB
Entries 1.079381e+07
TDC
QT Input Channel

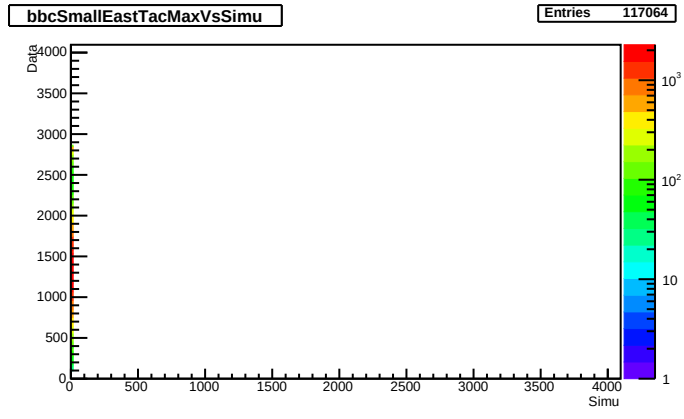

EQ3 QTC
Entries 1.301261e+07
ADC
QT Input Channel

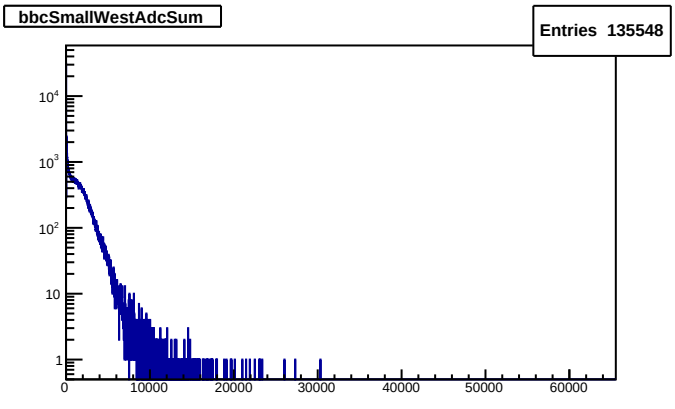

EQ3 QTC
Entries 1.301261e+07
TADC
QT Input Channel

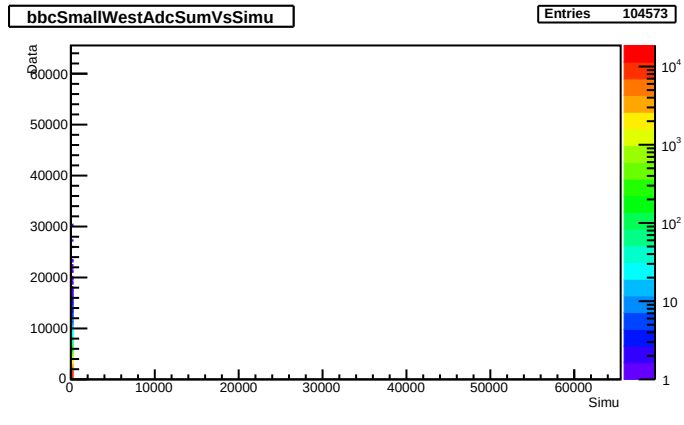

bbcSmallEastAdcSum
Entries 135548

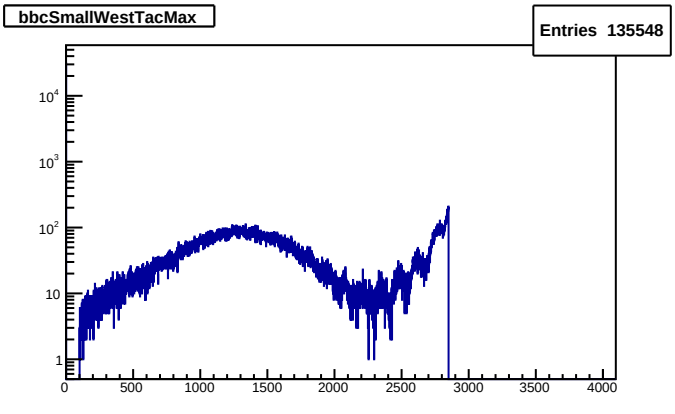

bbcSmallEastAdcSumVsSimu
Entries 117064
Data
Simu

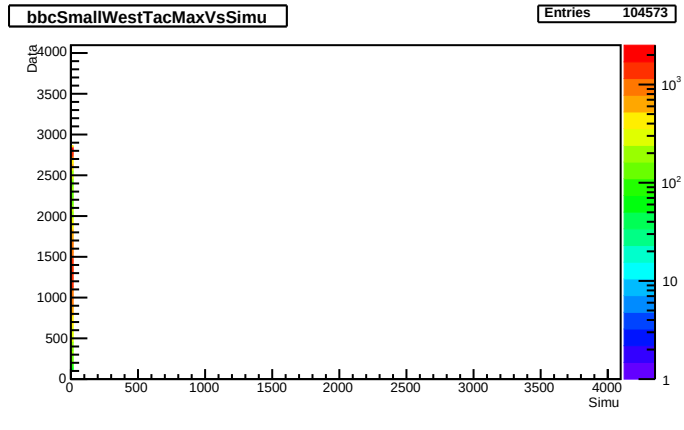

bbcSmallEastTacMax
Entries 135548

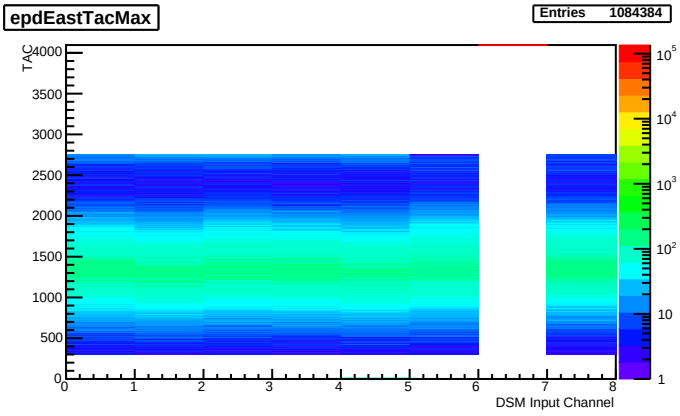

bbcSmallEastTacMaxVsSimu
Entries 117064
Data
Simu

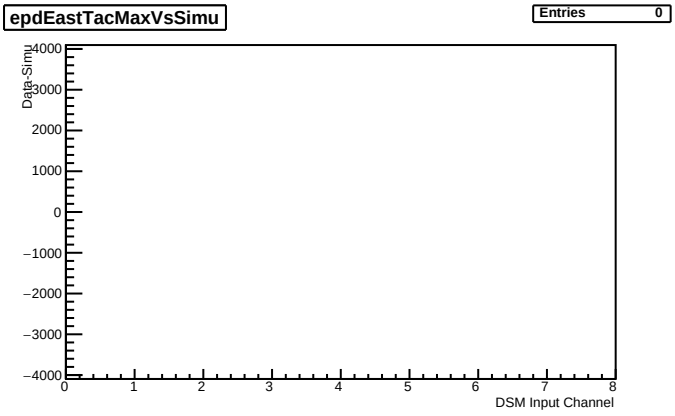

bbcSmallWestAdcSum
Entries 135548

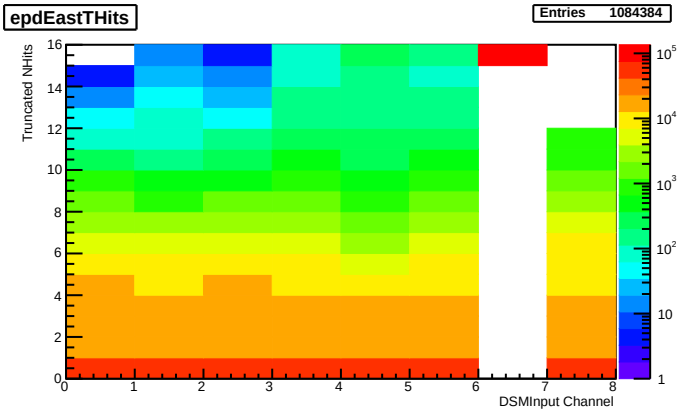

bbcSmallWestAdcSumVsSimu
Entries 104573
Data
Simu

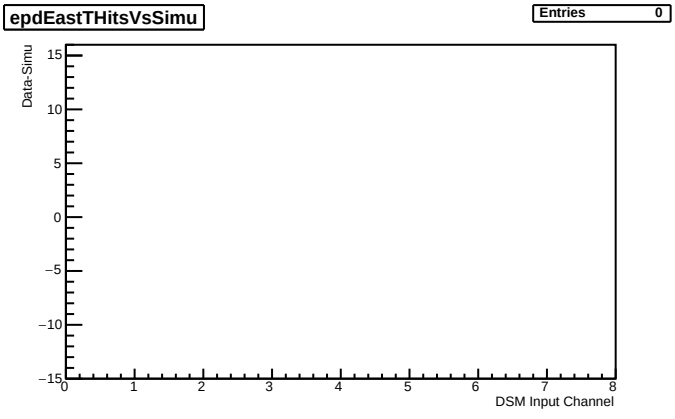

bbcSmallWestTacMax
Entries 135548


bbcSmallWestTacMaxVsSimu
Entries 104573
Data
Simu


epdEastTacMax
Entries 1084384
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 1084384
Truncated NHits
DSMInput Channel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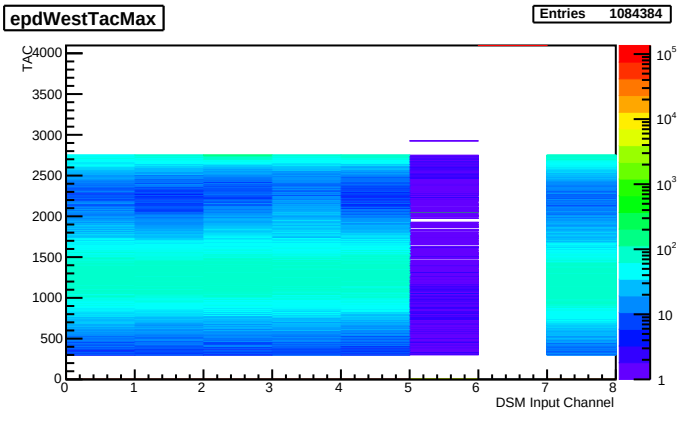
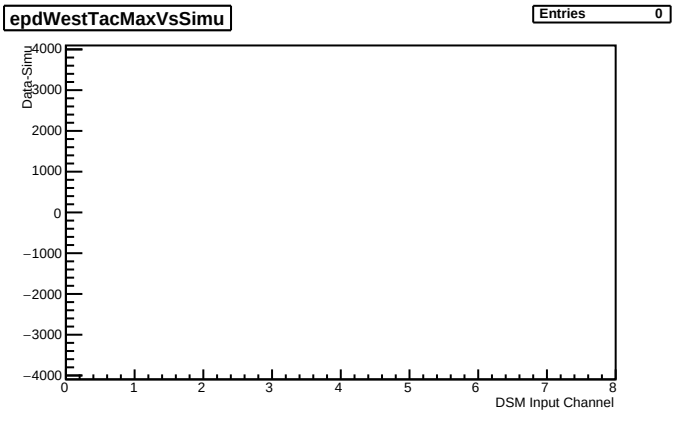
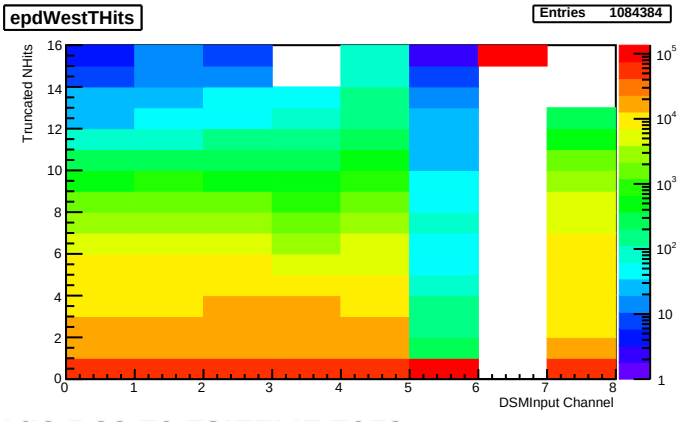
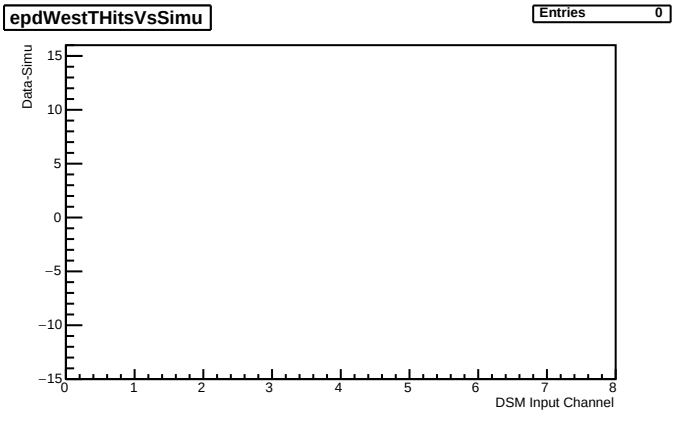
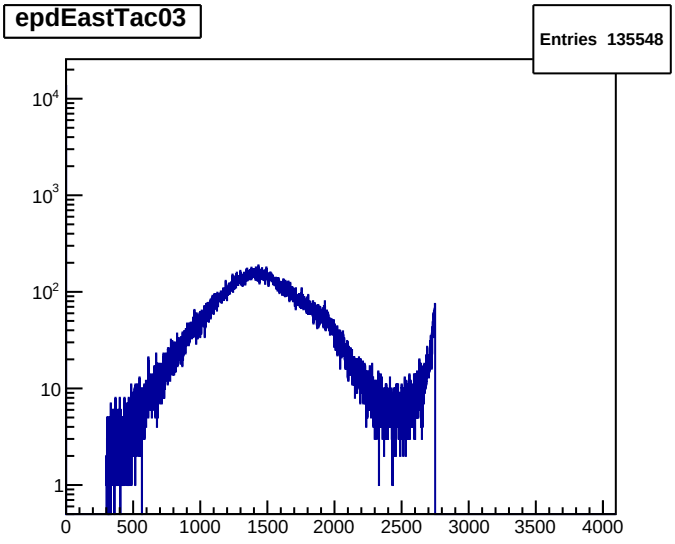
Data-Simu
DSM Input Channel

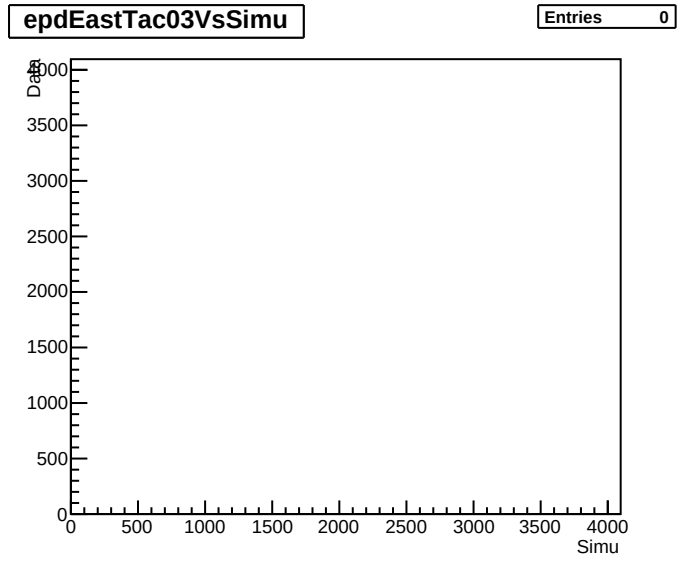

epdWestTacMax
Entries 1084384
TAC
DSM Input Channel

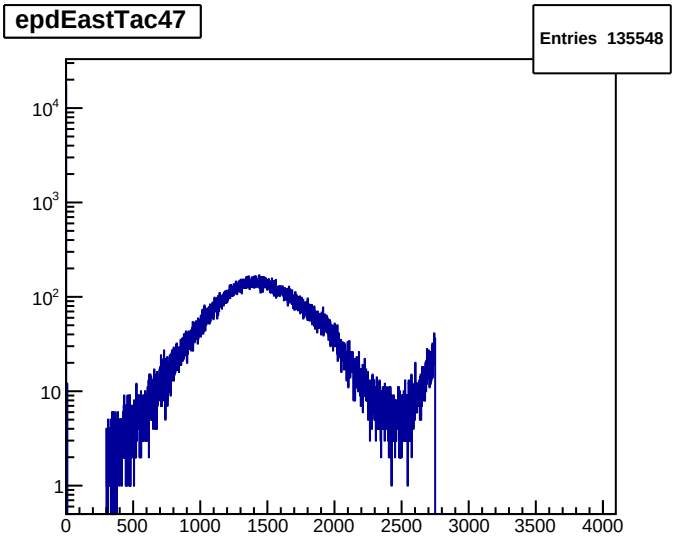

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

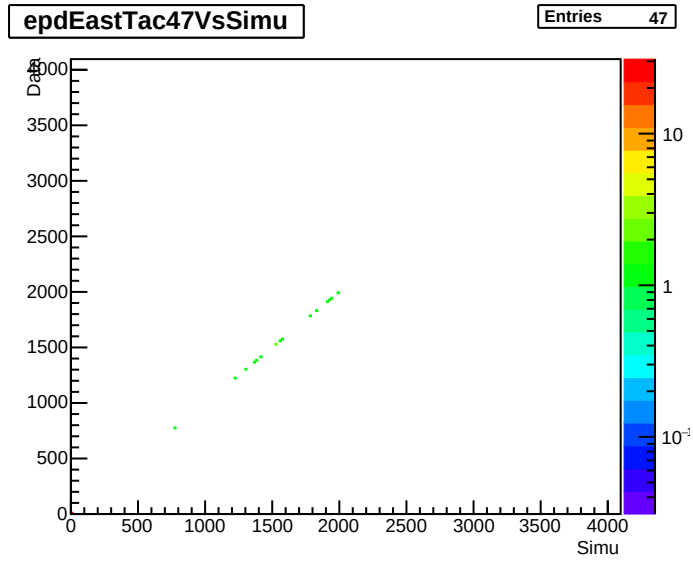

epdWestTHits
Entries 1084384
Truncated NHits
DSMInput Channel

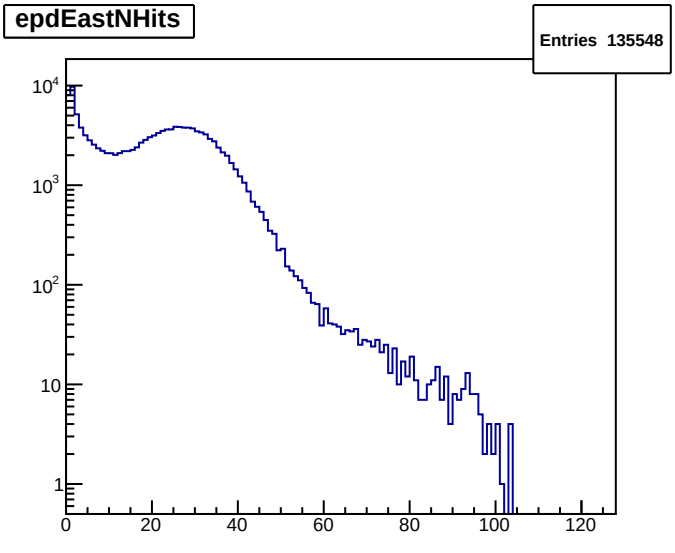

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

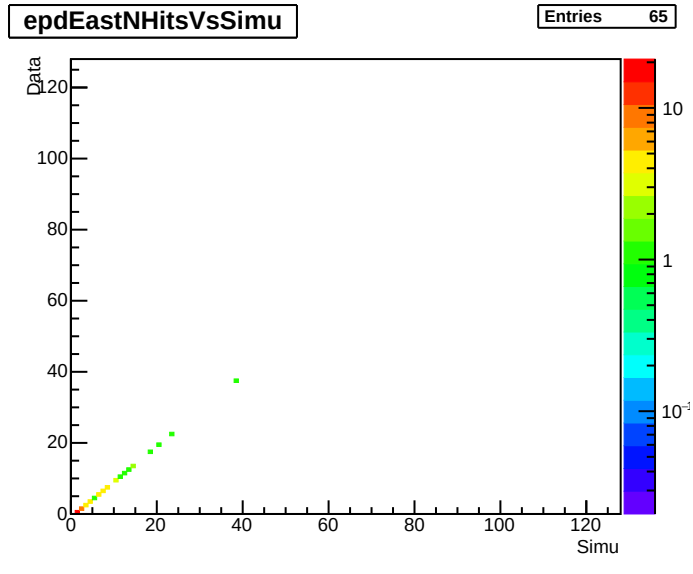

epdEastTac03
Entries 135548

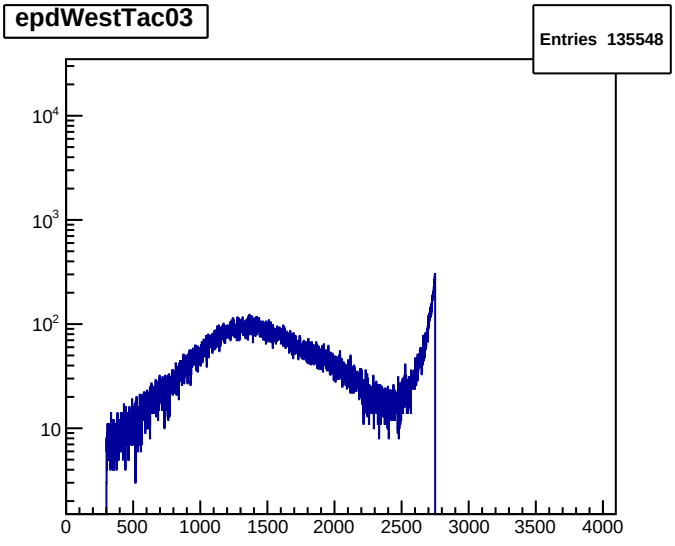

epdEastTac03VsSimu
Entries 0
Data
Simu

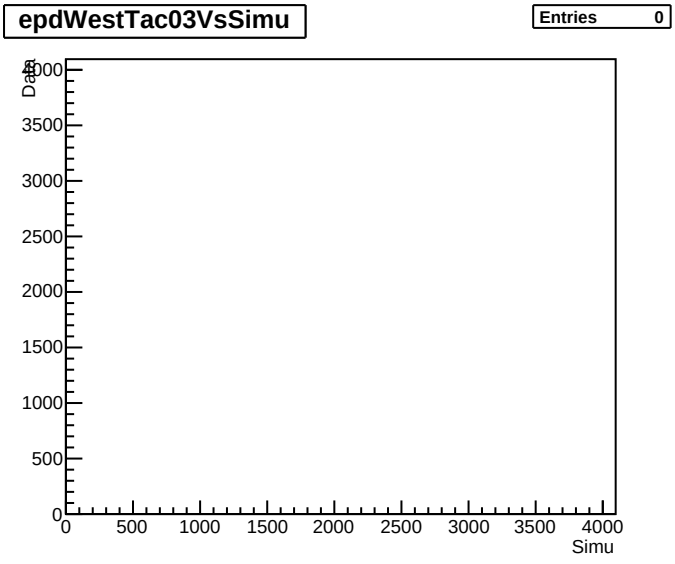

epdEastTac47
Entries 135548


epdEastTac47VsSimu
Entries 47
Data
Simu


epdEastNHits
Entries 135548


epdEastNHitsVsSimu
Entries 65
Data
Simu


epdWestTac03
Entries 135548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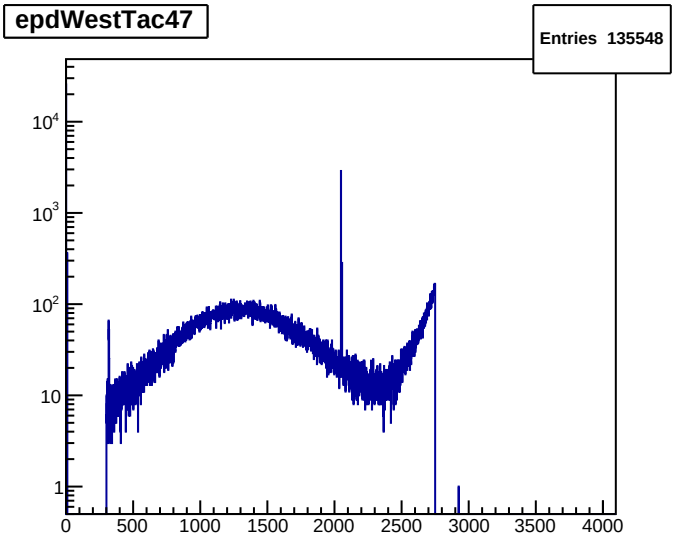
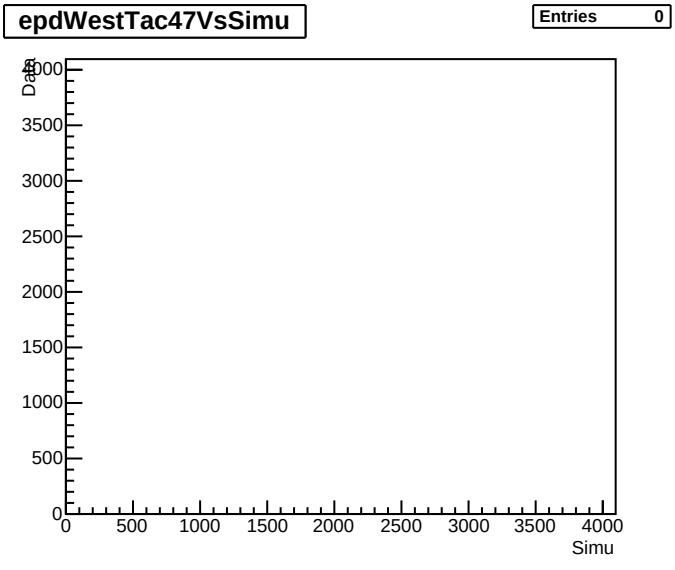
Entries 0
Data
Simu


epdWestTac47
Entries 135548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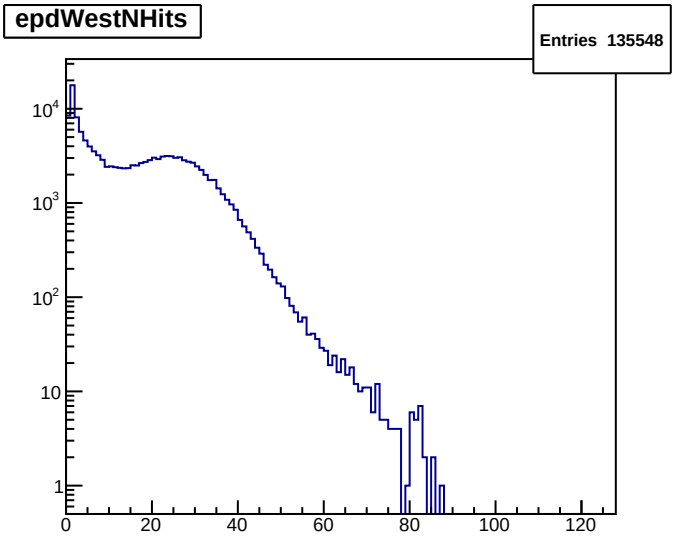
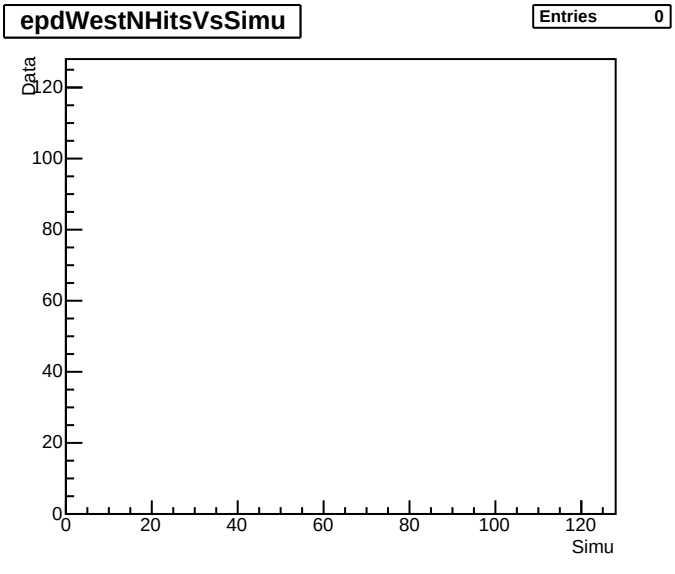
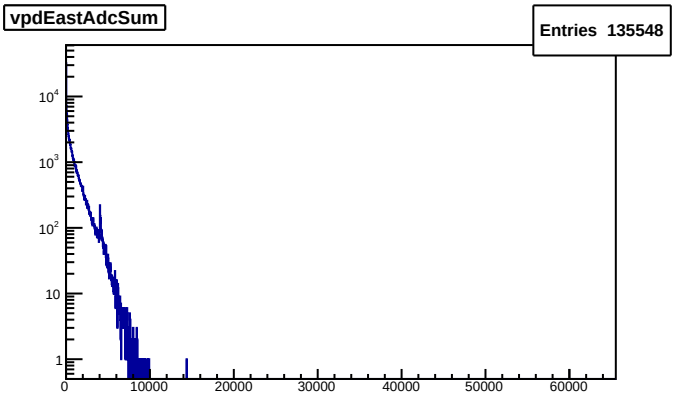
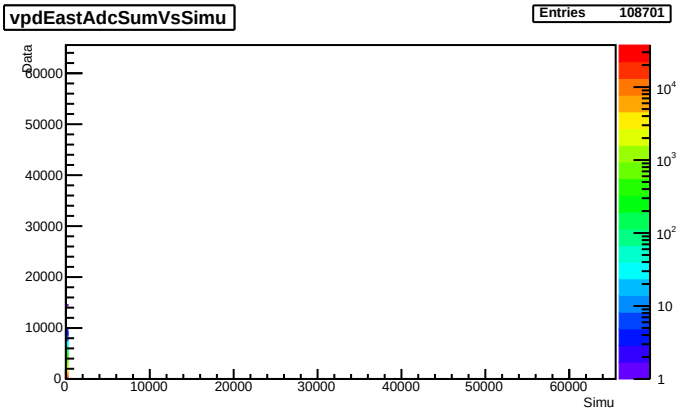
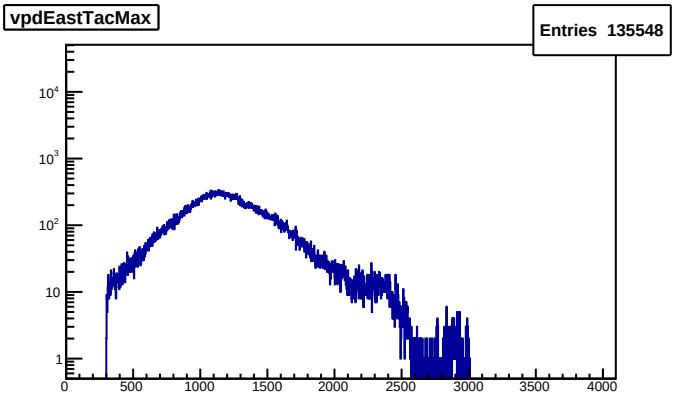
Entries 0
Data
Simu

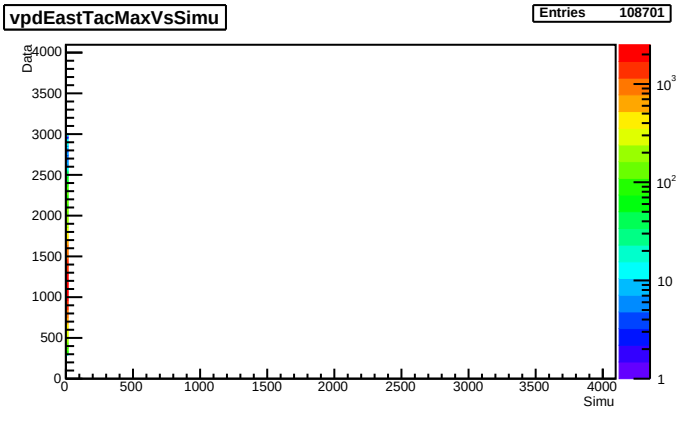

epdWestNHits
Entries 135548

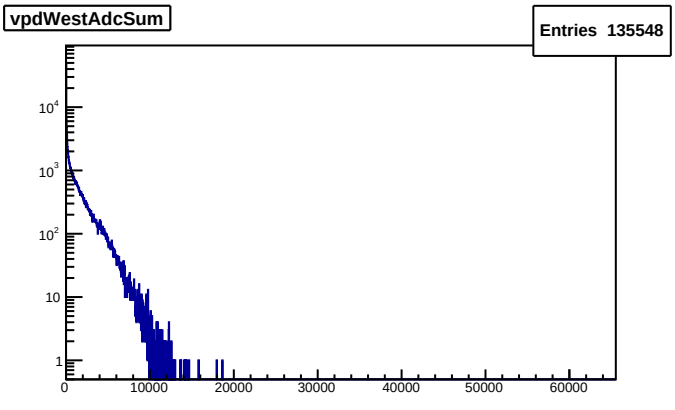

epdWestNHitsVsSimu
Entries 0
Data
Simu

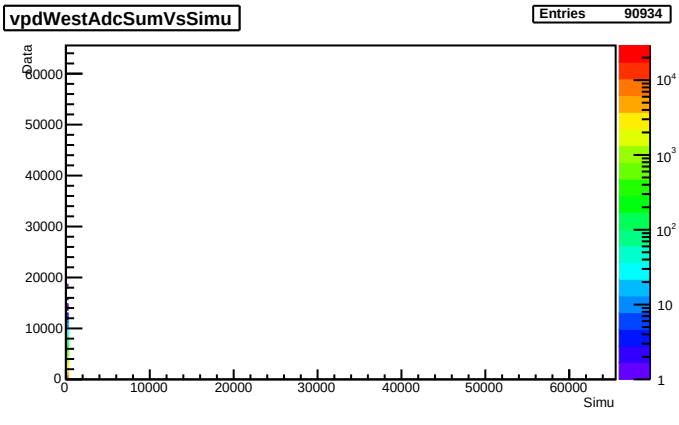

vpdEastAdcSum
Entries 135548

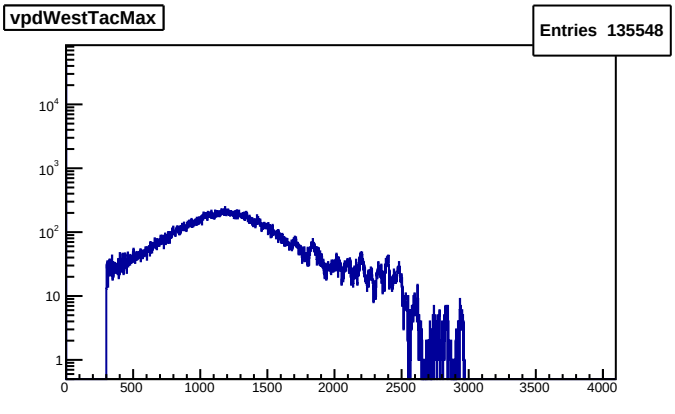

vpdEastAdcSumVsSimu
Entries 108701
Data
Simu

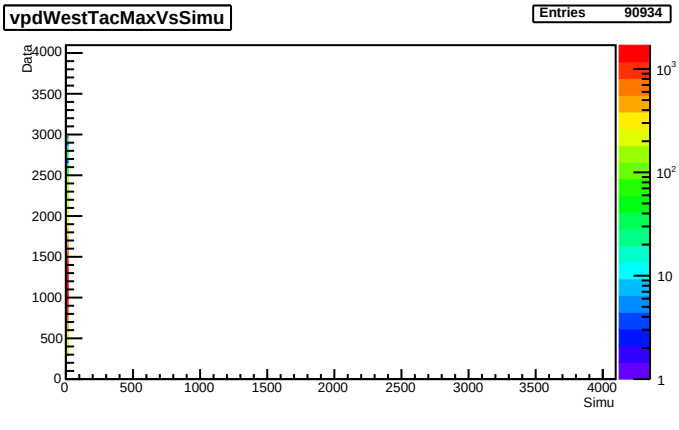

vpdEastTacMax
Entries 135548

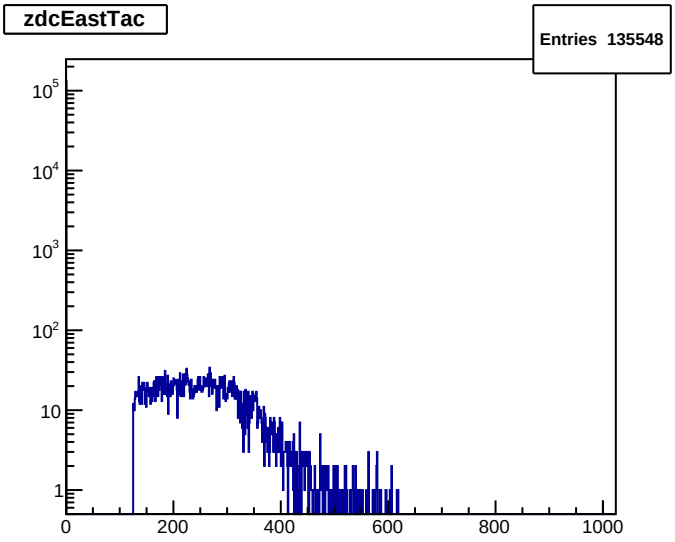

vpdEastTacMaxVsSimu
Entries 108701
Data
Simu

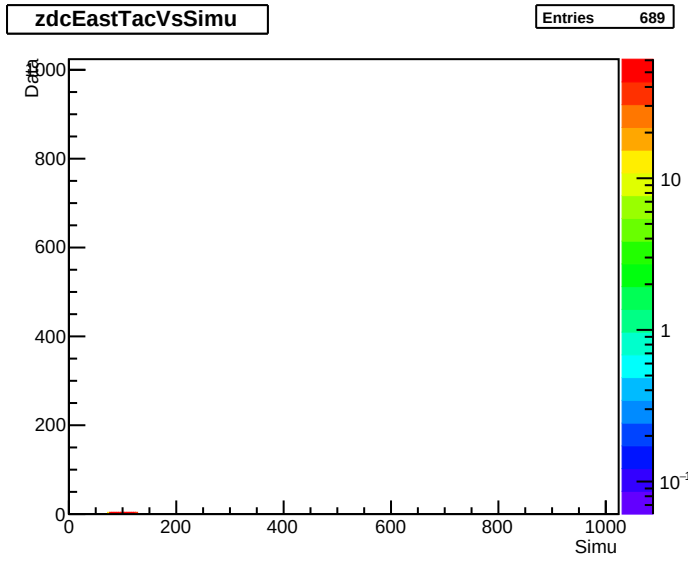

vpdWestAdcSum
Entries 135548

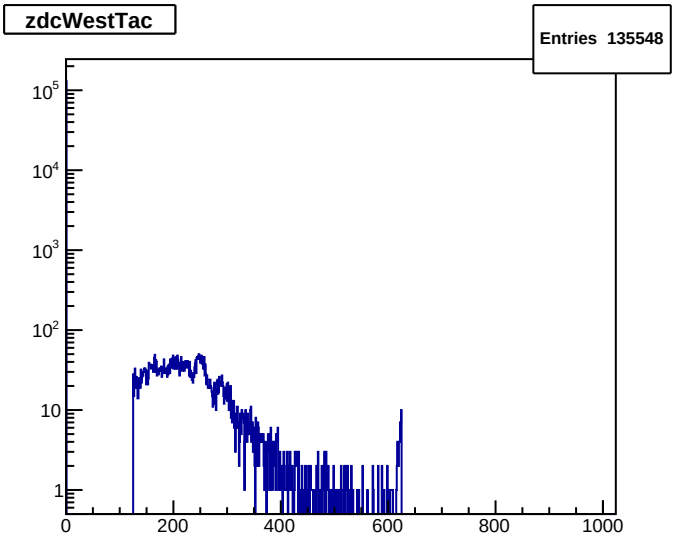

vpdWestAdcSumVsSimu
Entries 90934
Data
Simu

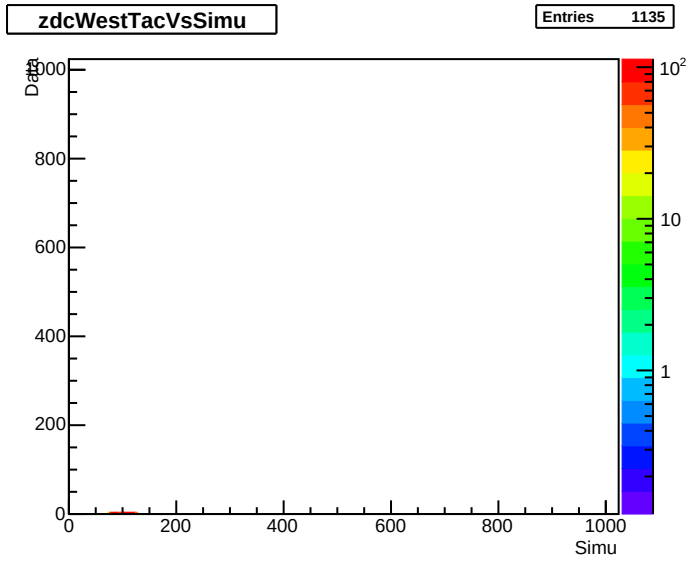

vpdWestTacMax
Entries 135548

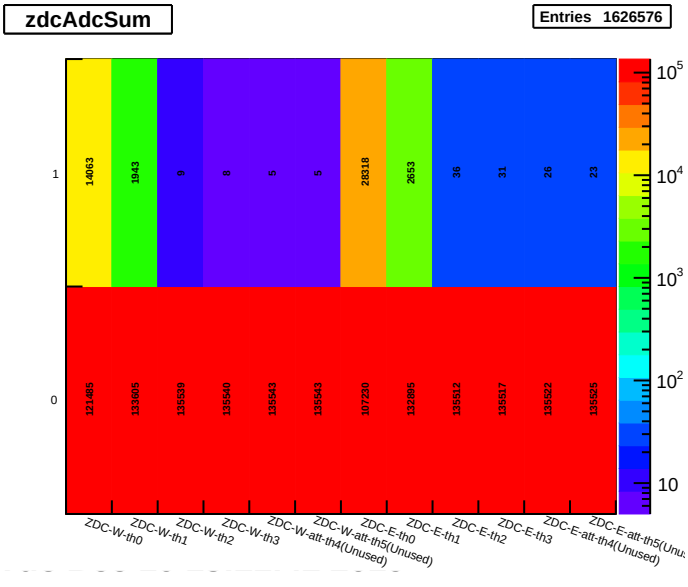

vpdWestTacMaxVsSimu
Entries 90934
Data
Simu

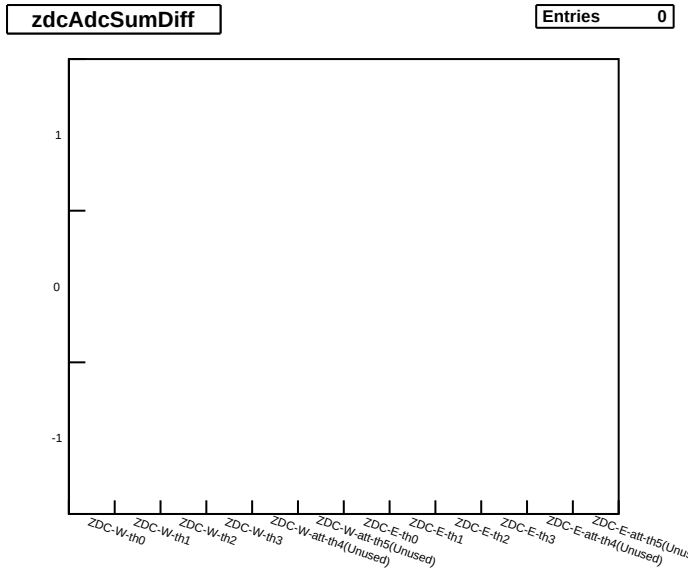

zdcEastTac
Entries 135548

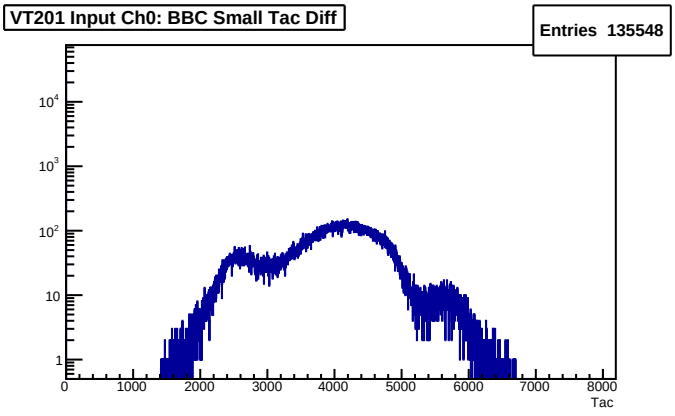

zdcEastTacVsSimu
Entries 689
Data
Simu

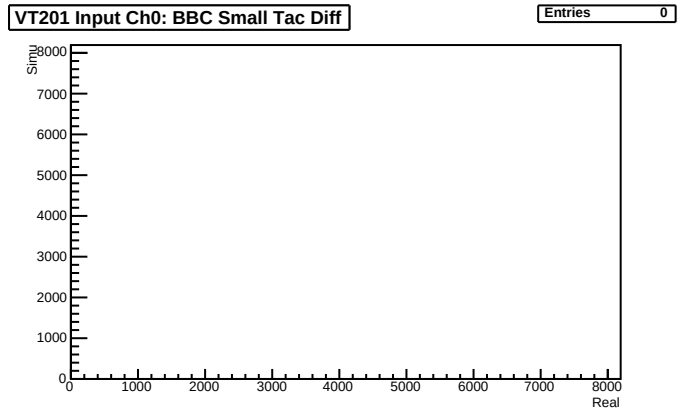

zdcWestTac
Entries 135548

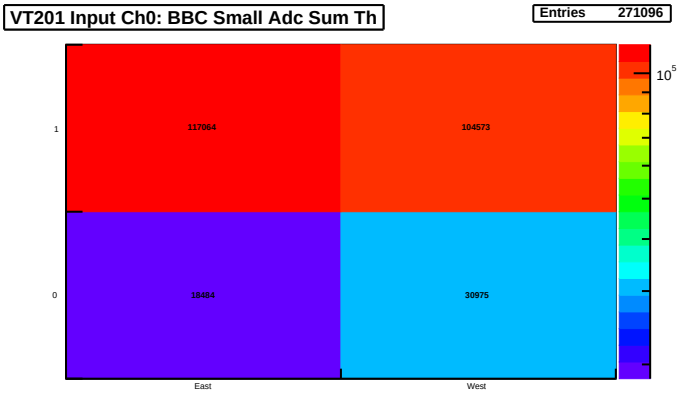

zdcWestTacVsSimu
Entries 1135
Data
Simu

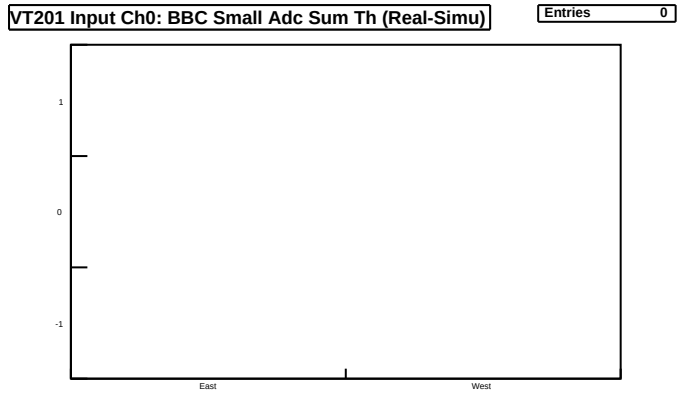

zdcAdcSum
Entries 1626576
14063
1943
9
8
5
5
28318
2653
36
31
26
23
121485
133605
135539
135540
135543
135543
107230
132895
135512
135517
135522
135525
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

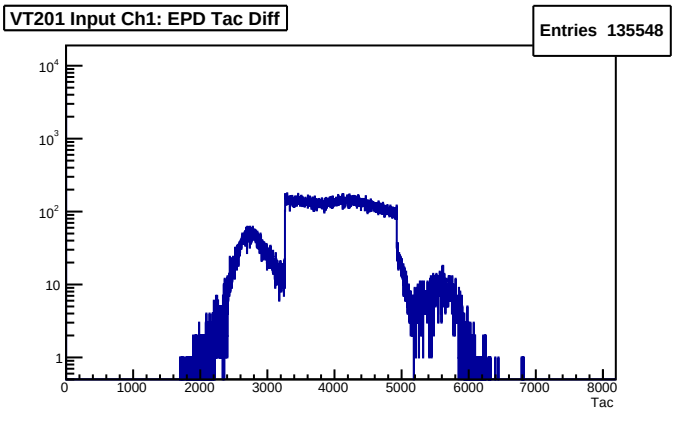

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

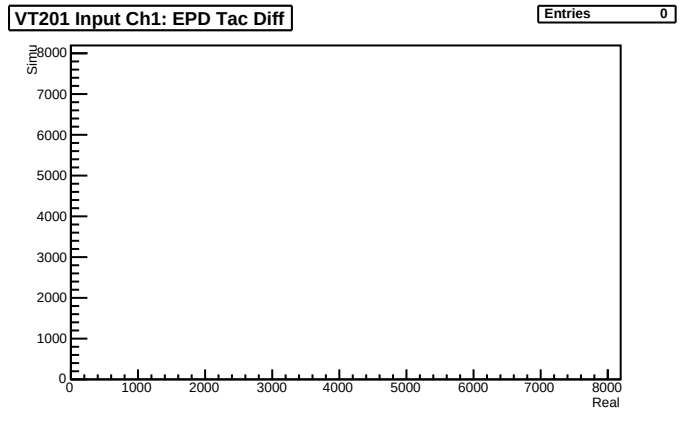

VT201 Input Ch0: BBC Small Tac Diff
Entries 135548
Tac

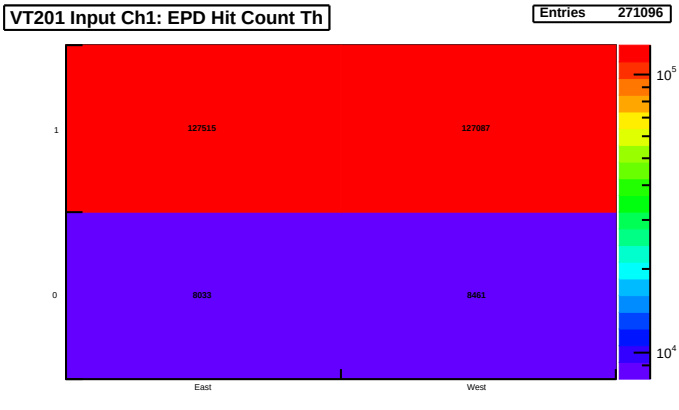

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

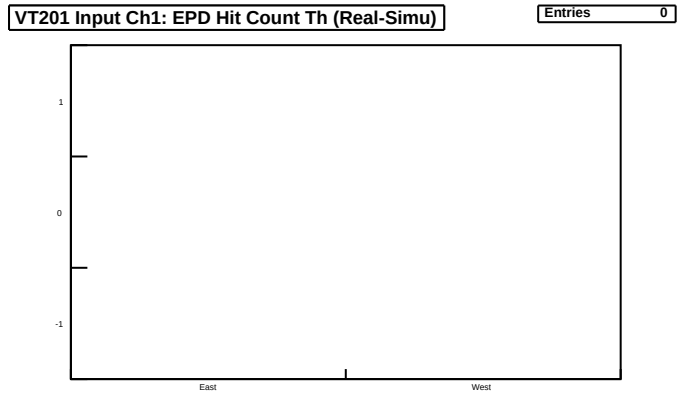

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 271096
117064
104573
18484
30975
East
West

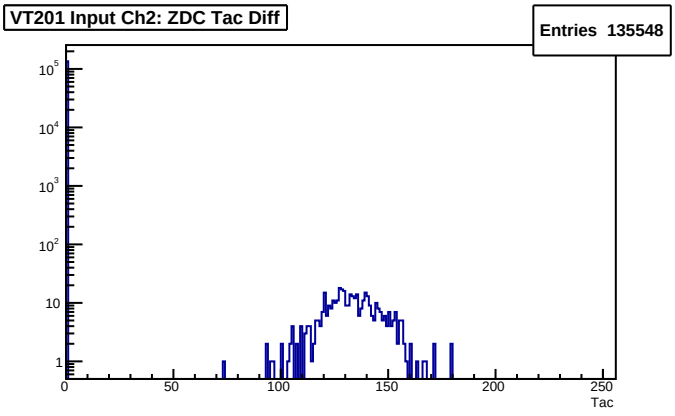

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

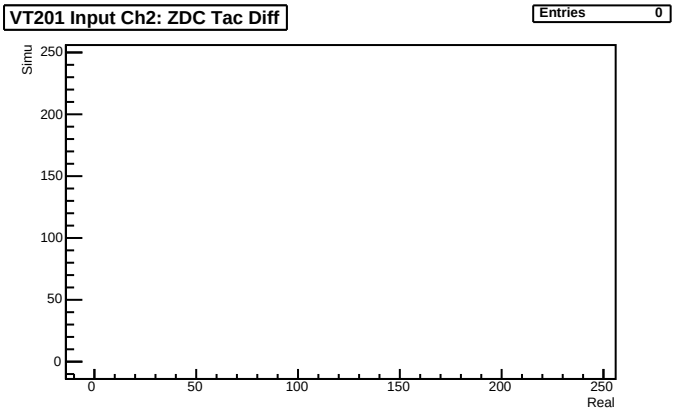

VT201 Input Ch1: EPD Tac Diff
Entries 135548
Tac

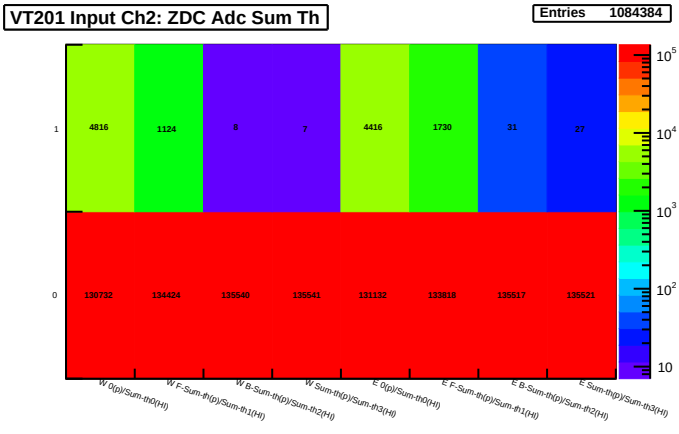

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

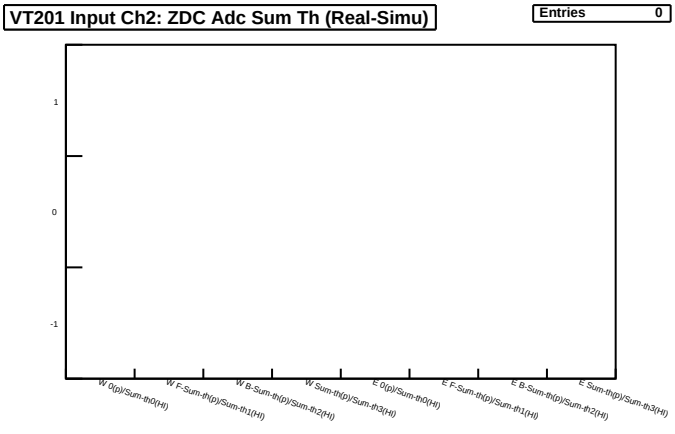

VT201 Input Ch1: EPD Hit Count Th
Entries 271096
127515
127087
8033
8461
East
West

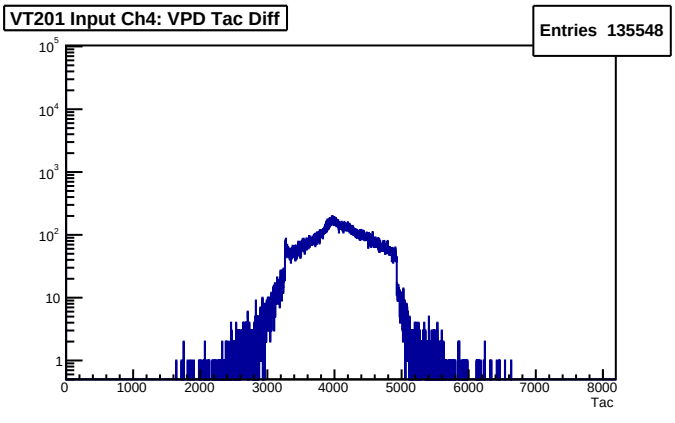

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

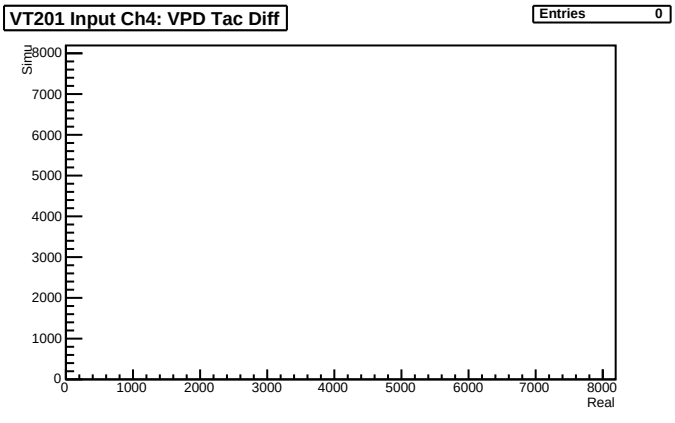

VT201 Input Ch2: ZDC Tac Diff
Entries 135548
Tac

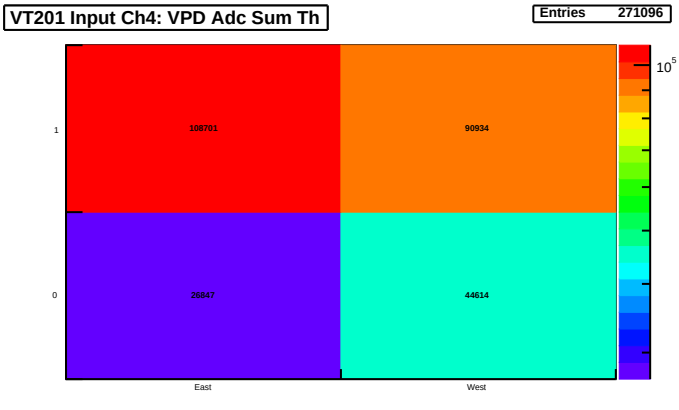

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

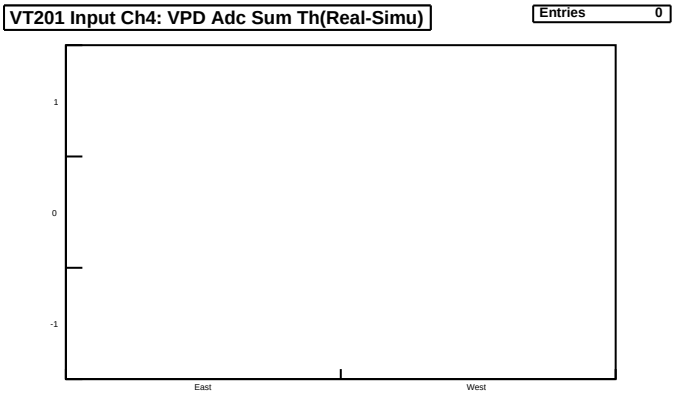

VT201 Input Ch2: ZDC Adc Sum Th
Entries 1084384
4816
1124
8
7
4416
1730
31
27
130732
134424
135540
135541
131132
133818
135517
135521
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

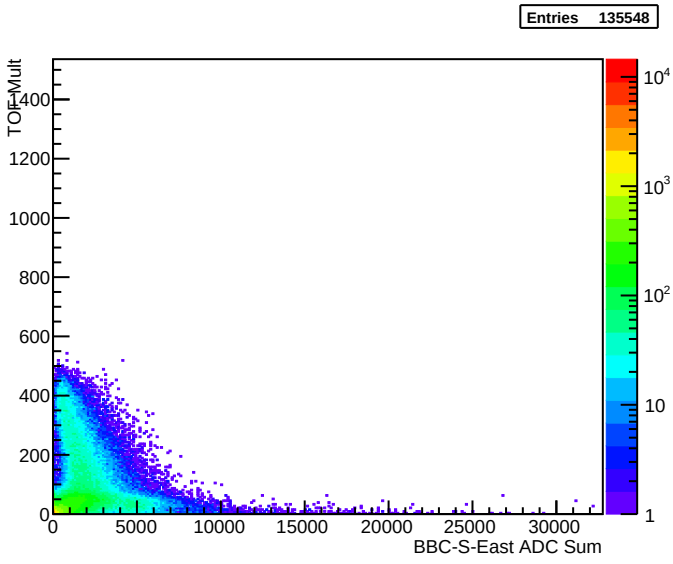

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

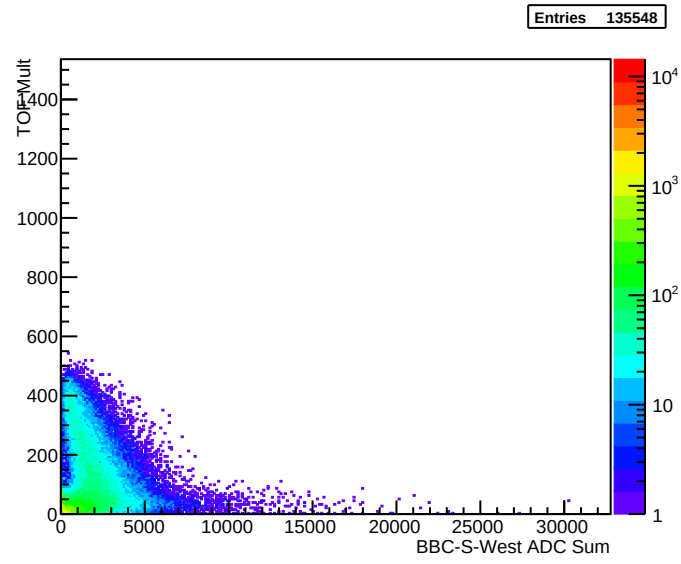

VT201 Input Ch4: VPD Tac Diff
Entries 135548
Tac

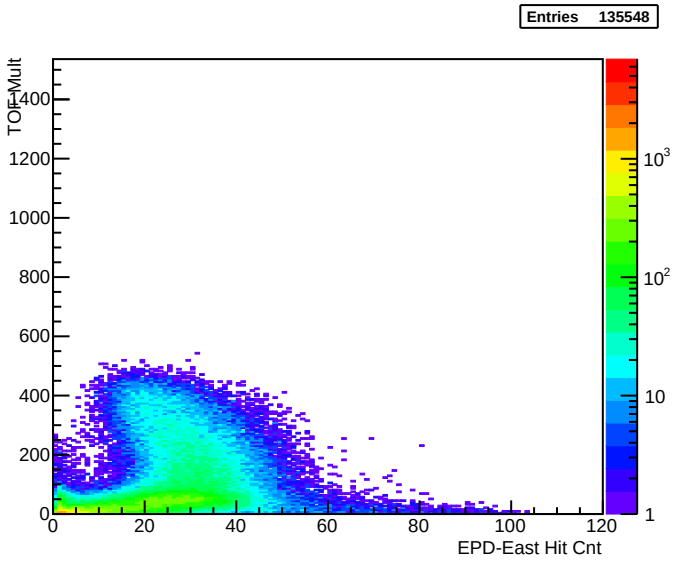

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

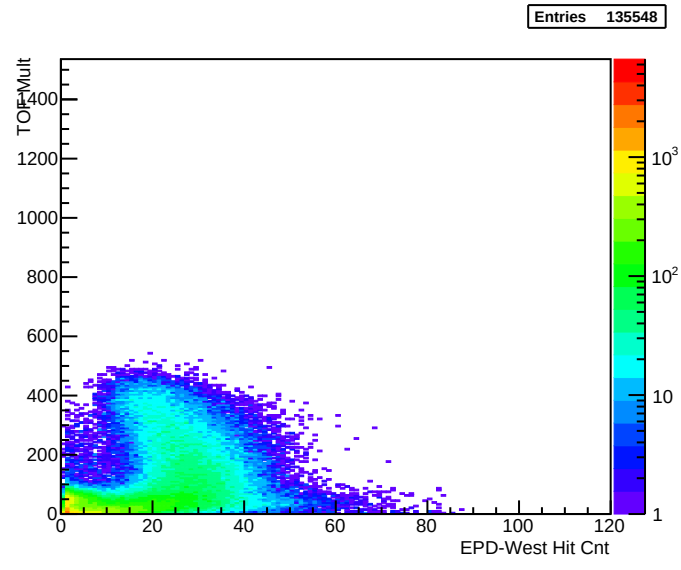

VT201 Input Ch4: VPD Adc Sum Th
Entries 271096
106701
90934
26847
44614
East
West

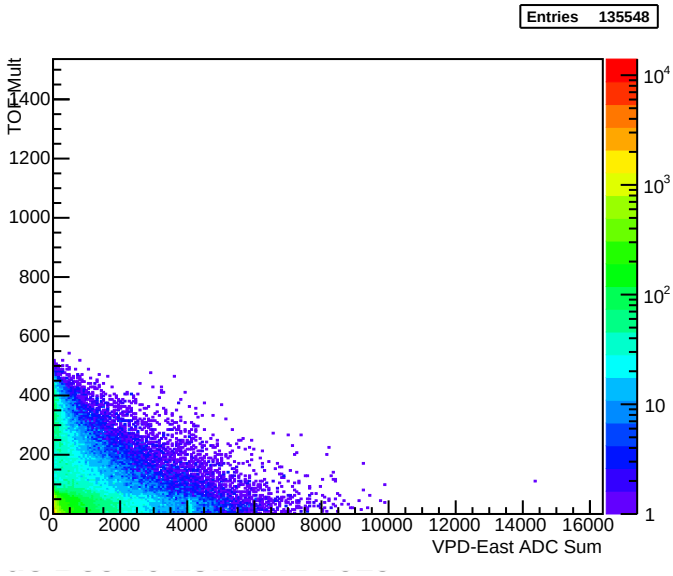

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

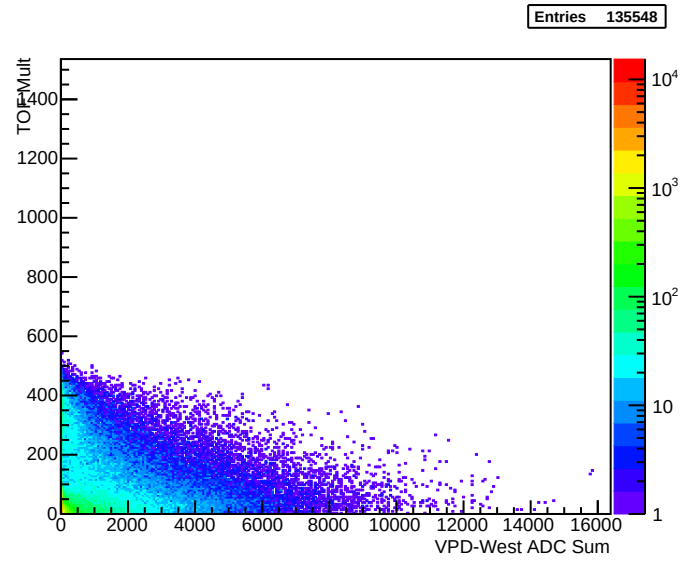

Entries 135548
TOF-Mult
BBC-S-East ADC Sum

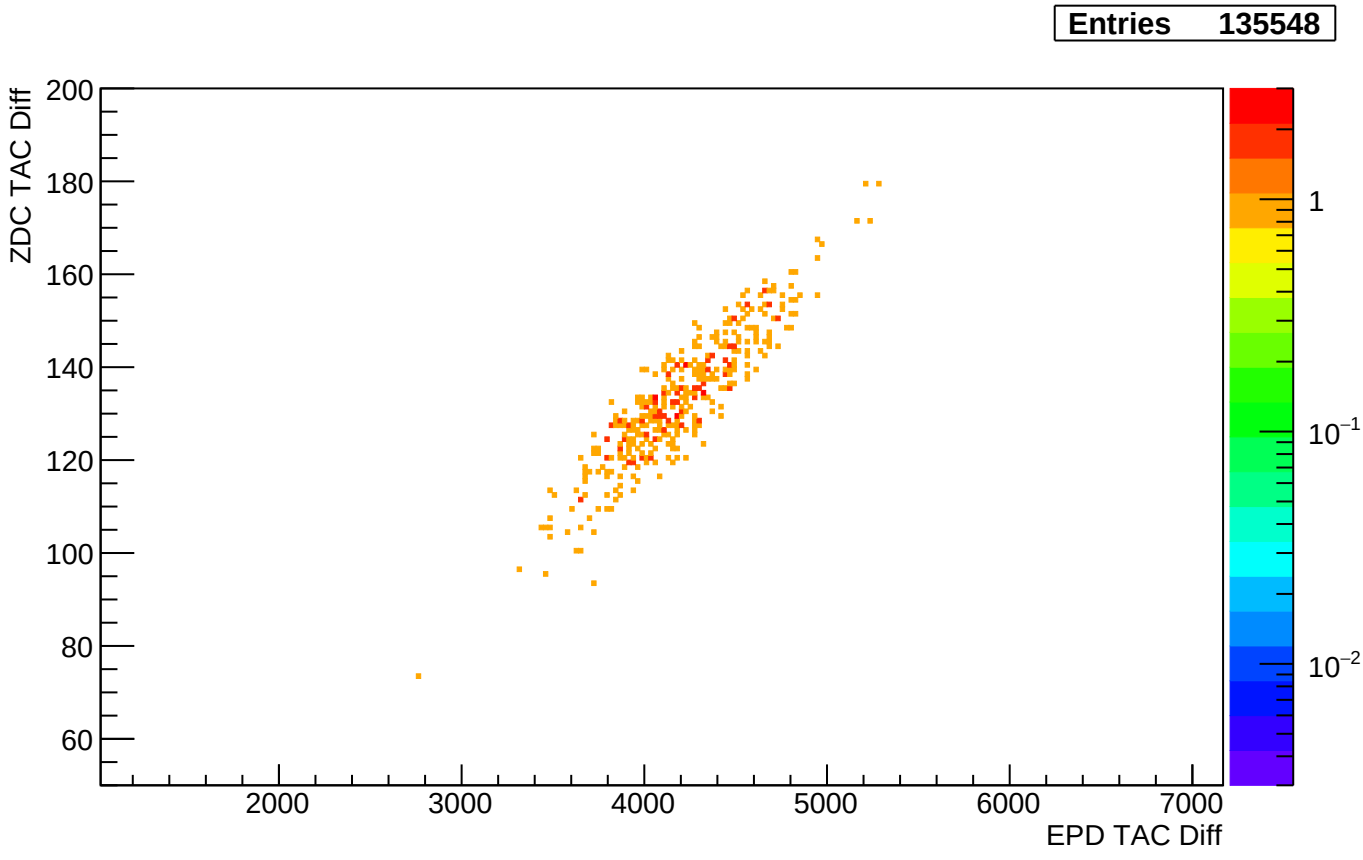

Entries 135548
TOF-Mult
BBC-S-West ADC Sum

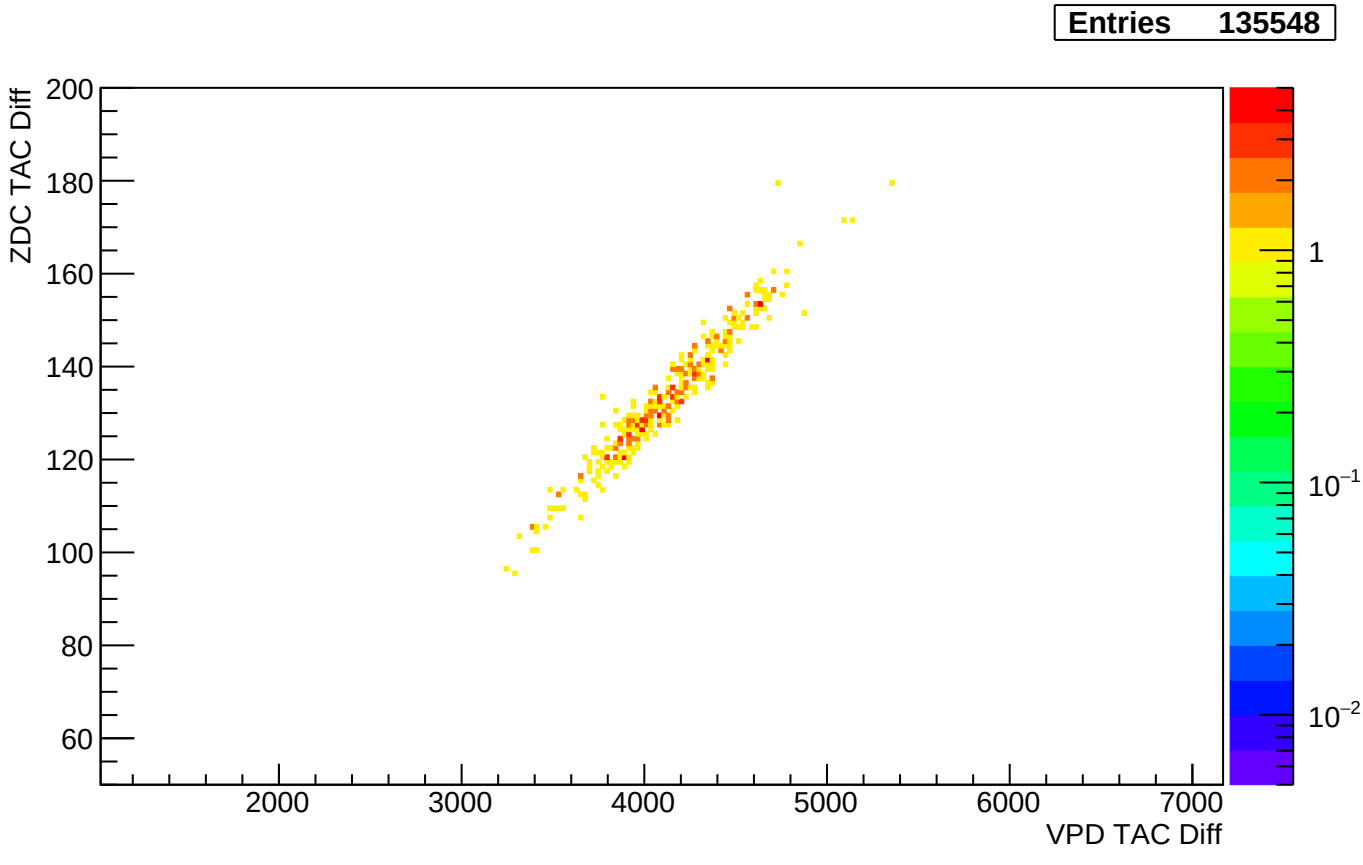

Entries 135548
TOF-Mult
EPD-East Hit Cnt

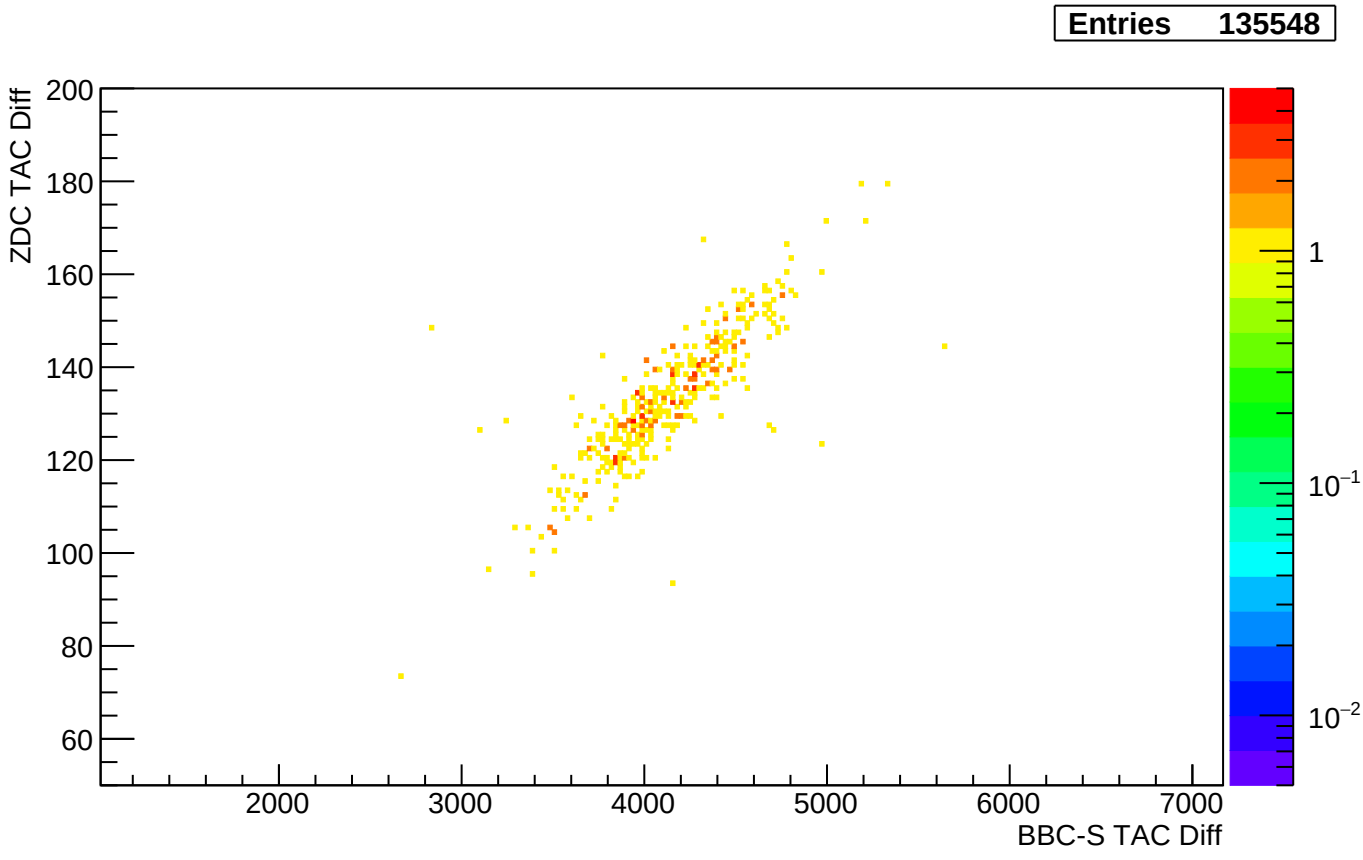

Entries 135548
TOF-Mult
EPD-West Hit Cnt

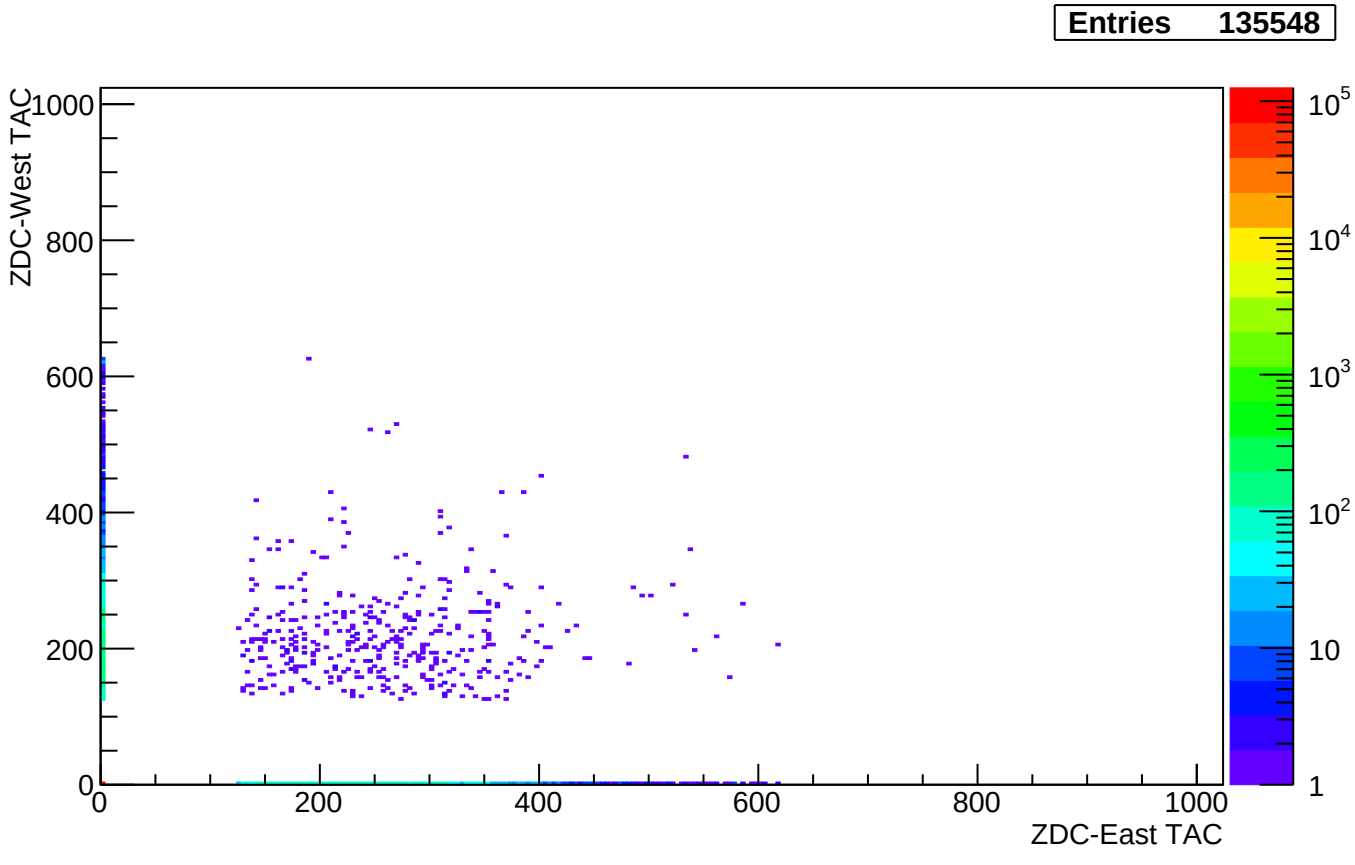

Entries 135548
TOF-Mult
VPD-East ADC Sum

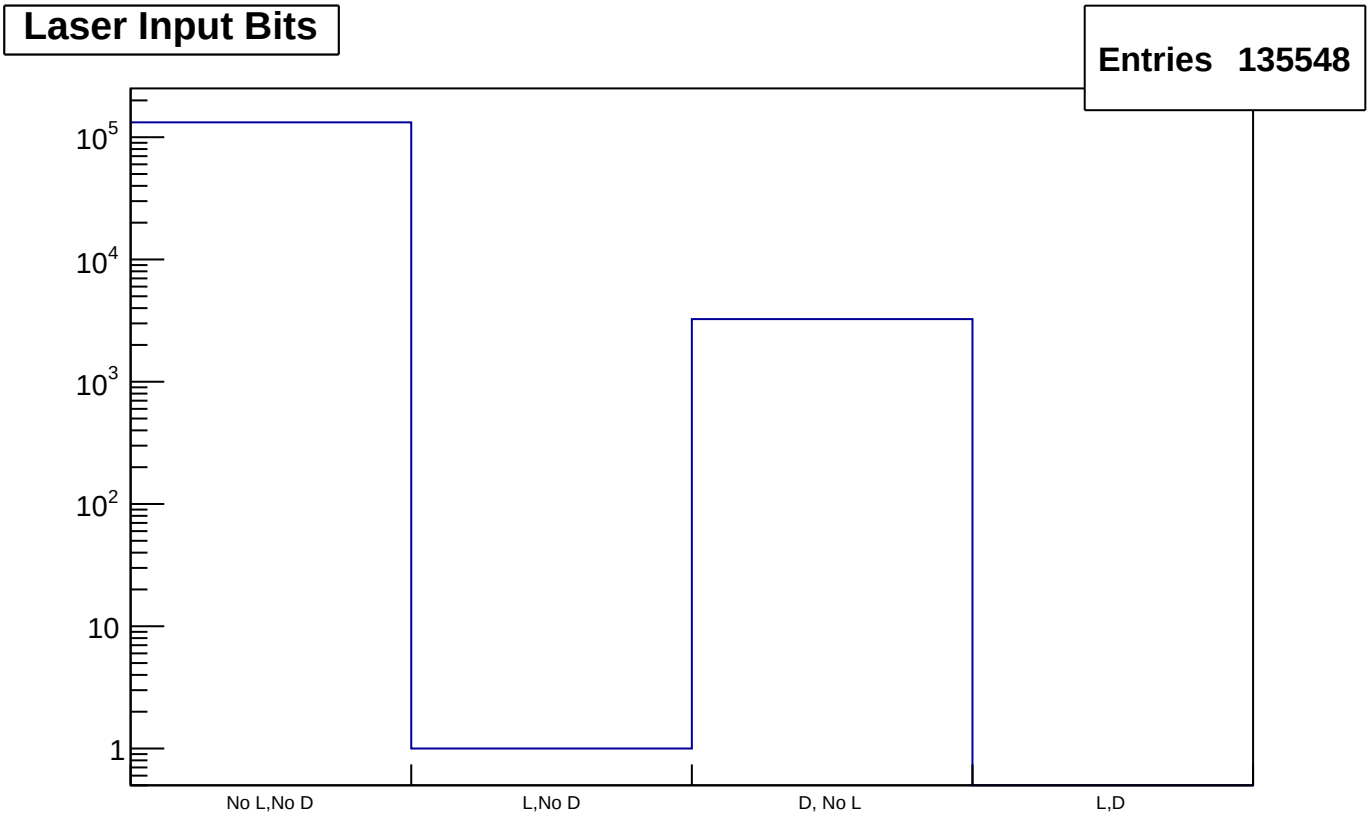

Entries 135548
TOF-Mult
VPD-West ADC Sum

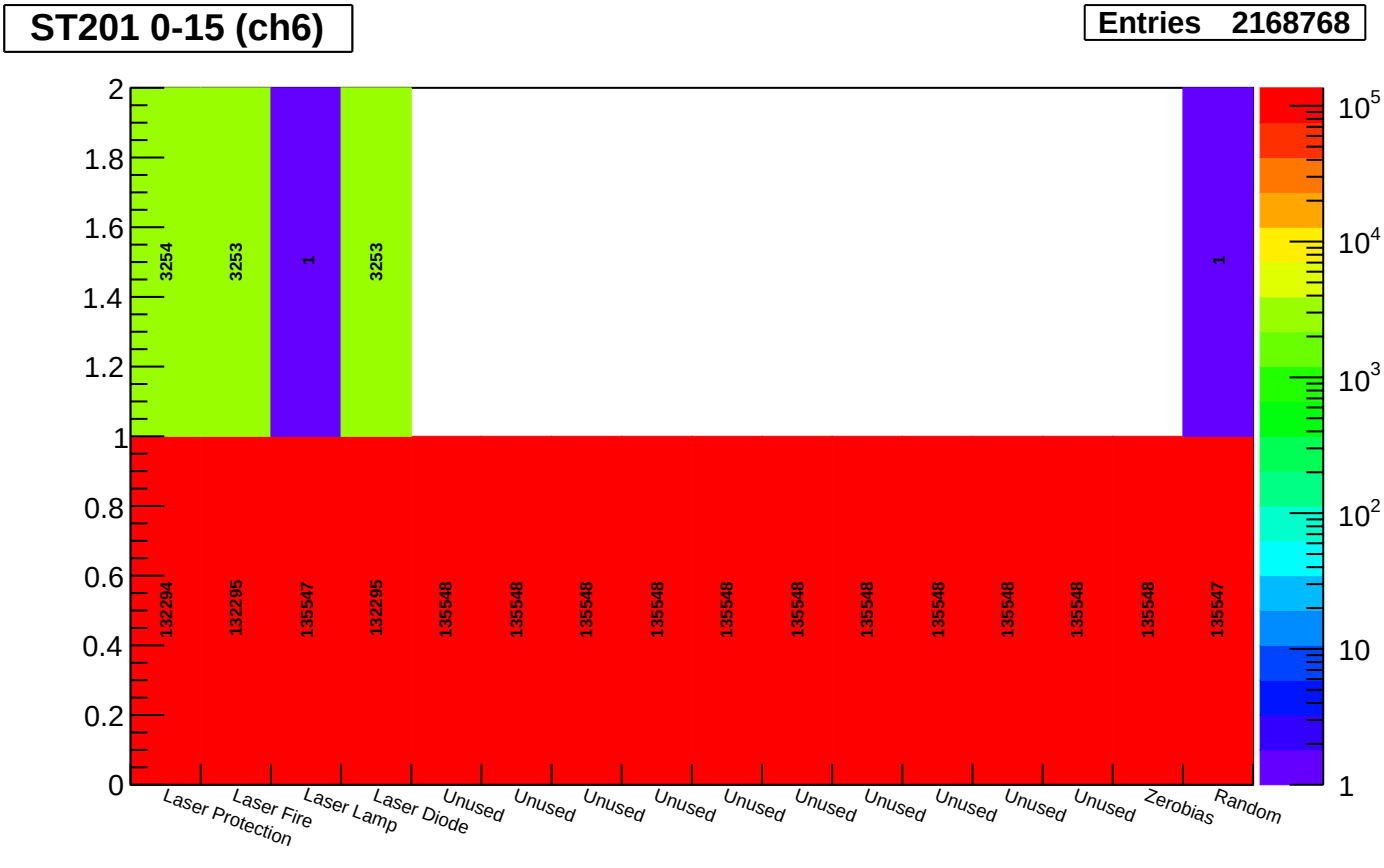

Entries 135548
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

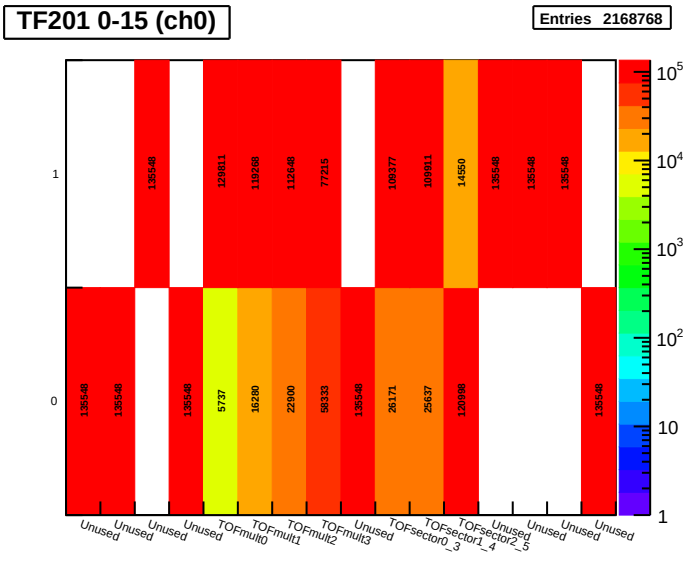

Entries 135548
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

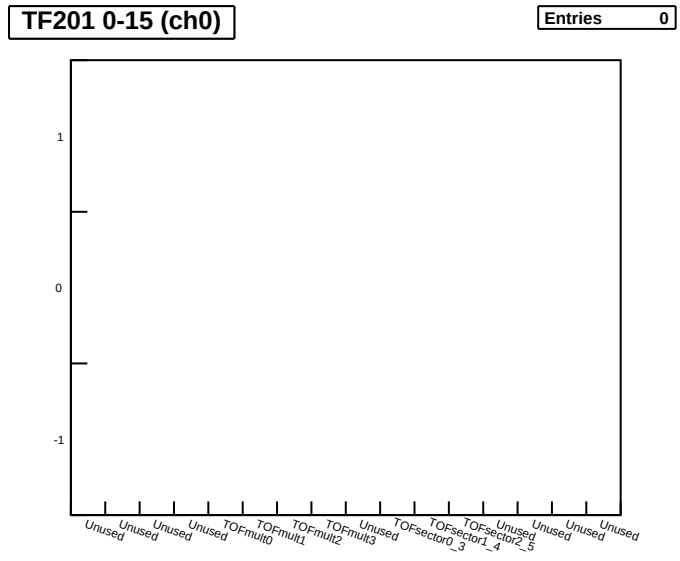

Entries 135548
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

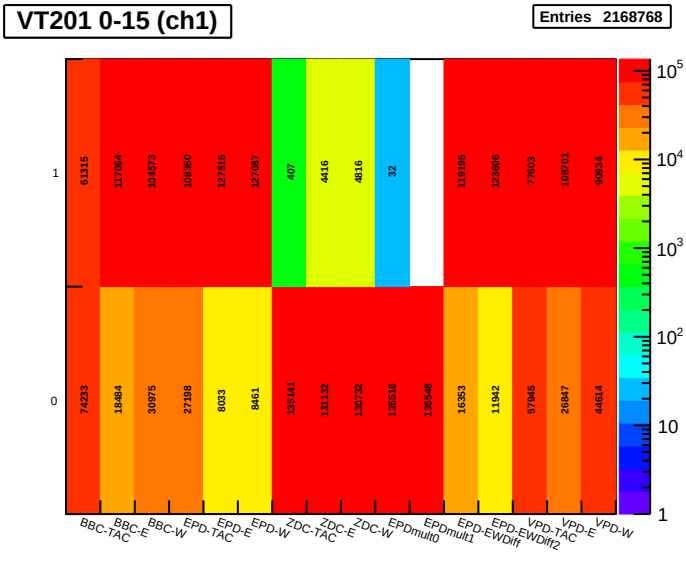

Entries 135548
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

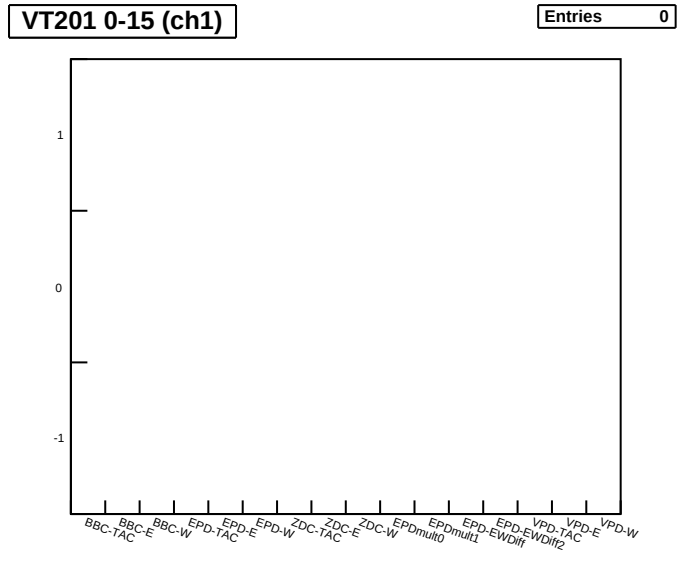

Laser Input Bits
Entries 135548
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

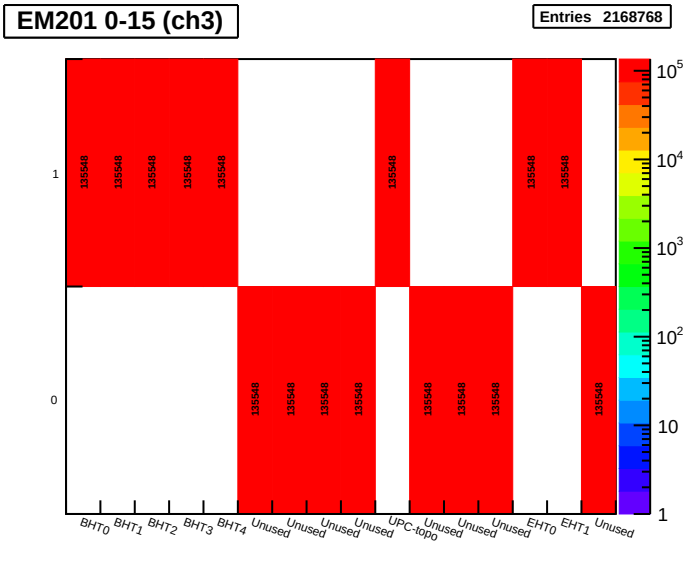

ST201 0-15 (ch6)
Entries 2168768
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3254
3253
1
3253
1
132294
132295
135547
132295
135548
135548
135548
135548
135548
135548
135548
135548
135548
135548
135548
135547
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

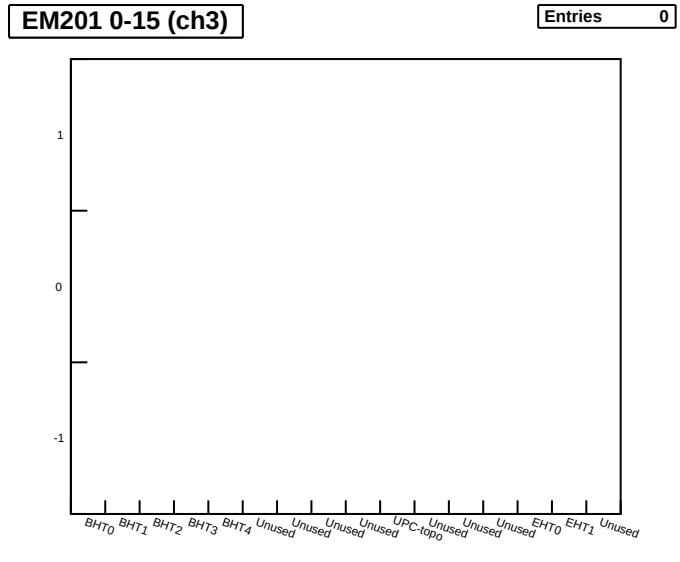

TF201 0-15 (ch0)
Entries 2168768
1
0
135548 135548 135548 129811 119268 112648 77215 109377 109911 14550 135548 135548 135548
135548 135548 135548 5737 16280 22900 58333 135548 26171 25637 120998 135548
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 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 2168768
1
0
61315 117064 104573 108350 127515 127087 407 4416 4816 32 119195 123806 77603 108701 90934
74233 18484 30975 27198 8033 8461 135141 131132 130732 135516 135548 16353 11942 57945 26847 44614
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff 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 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 2168768
1
0
135548 135548 135548 135548 135548 135548 135548 135548
135548 135548 135548 135548 135548 135548 135548 135548
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