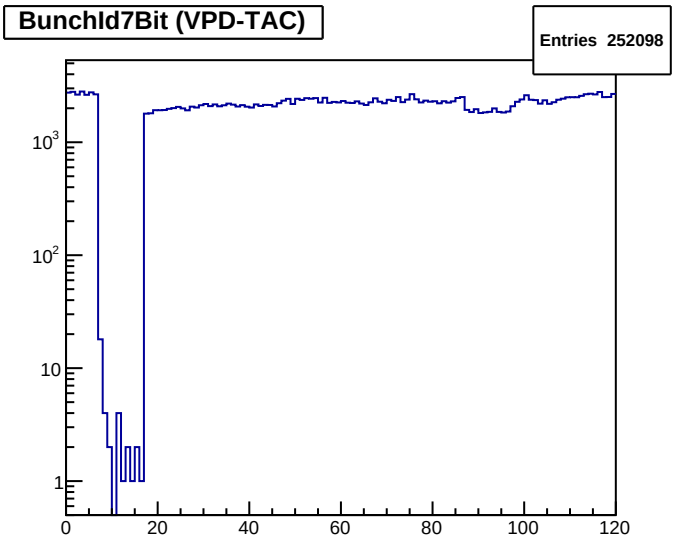
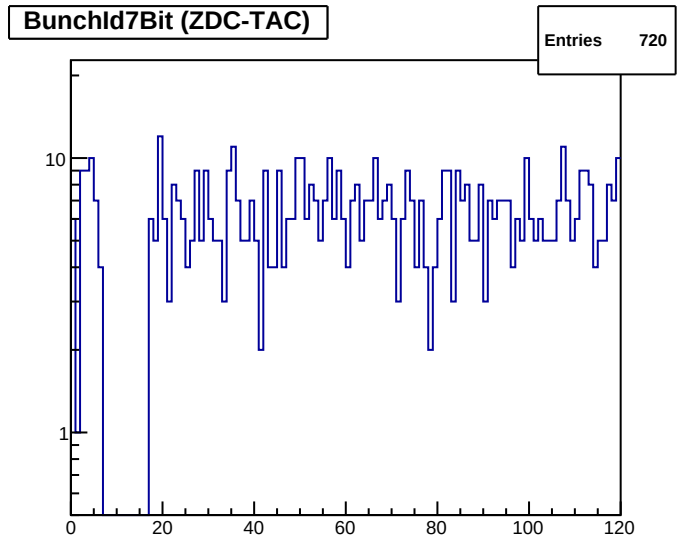
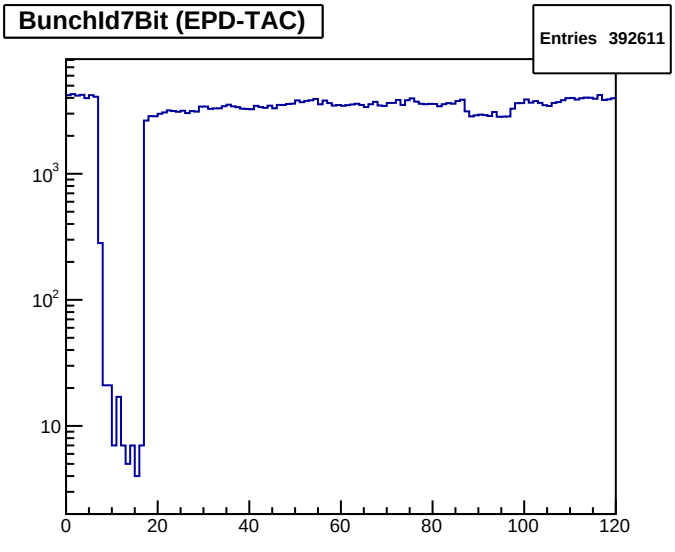
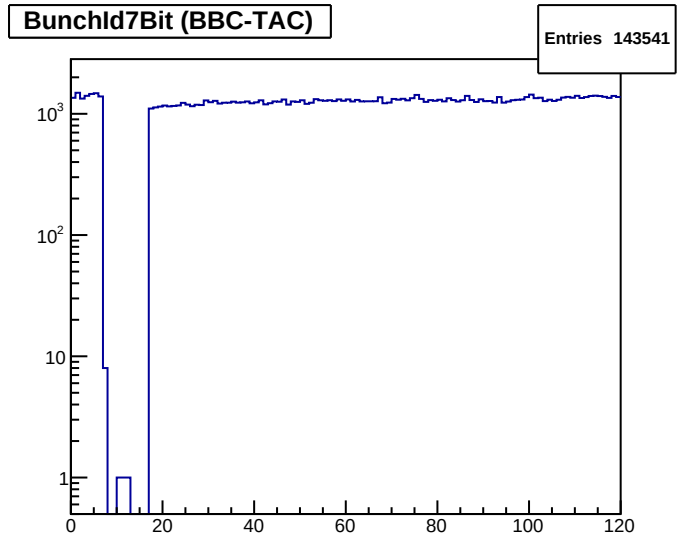
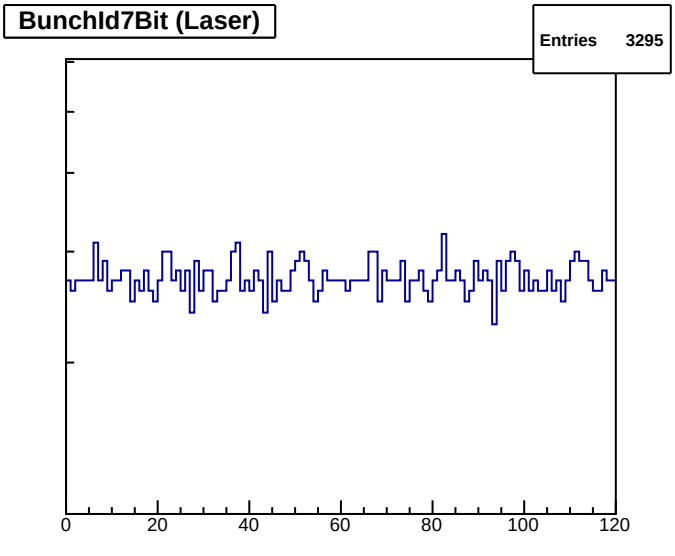
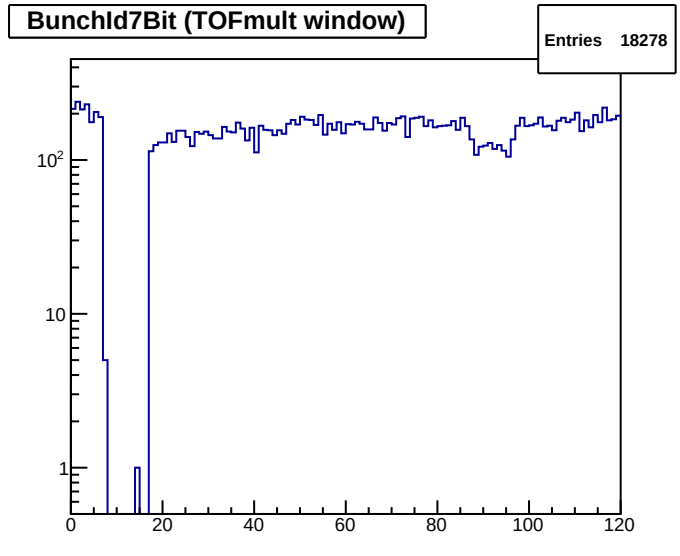

BunchId7Bit (VPD-TAC)
Entries 252098
10^3
10^2
10
1
0
20
40
60
80
100
120

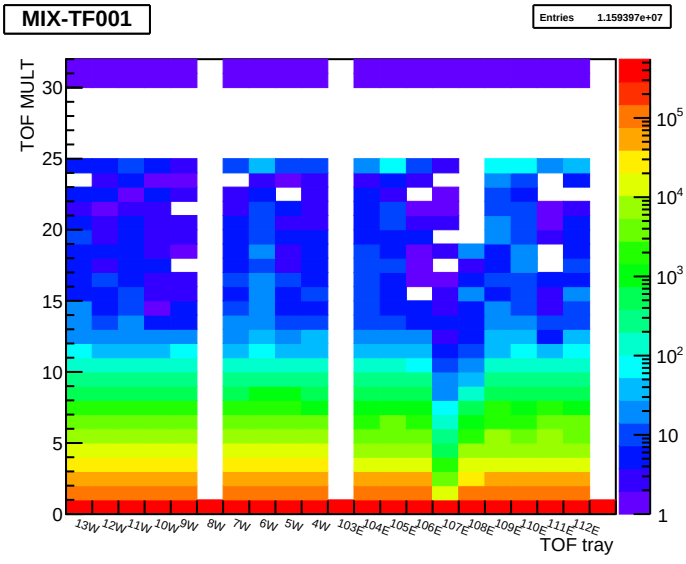

BunchId7Bit (ZDC-TAC)
Entries 720
10
1
0
20
40
60
80
100
120

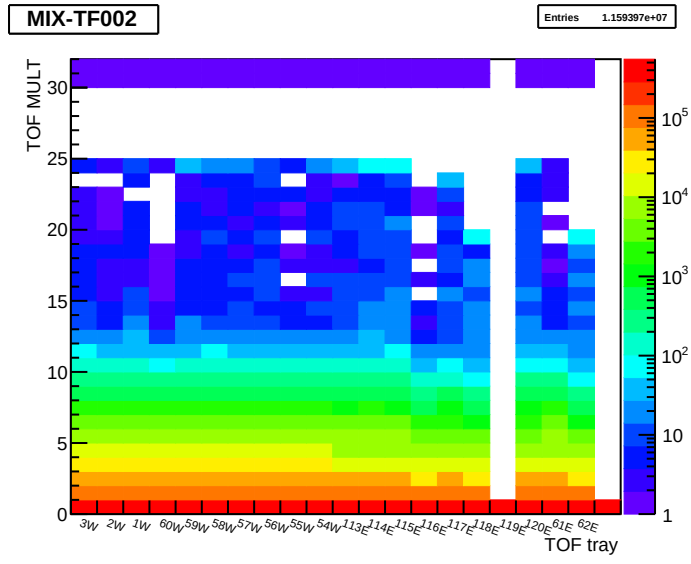

BunchId7Bit (EPD-TAC)
Entries 392611
10^3
10^2
10
0
20
40
60
80
100
120

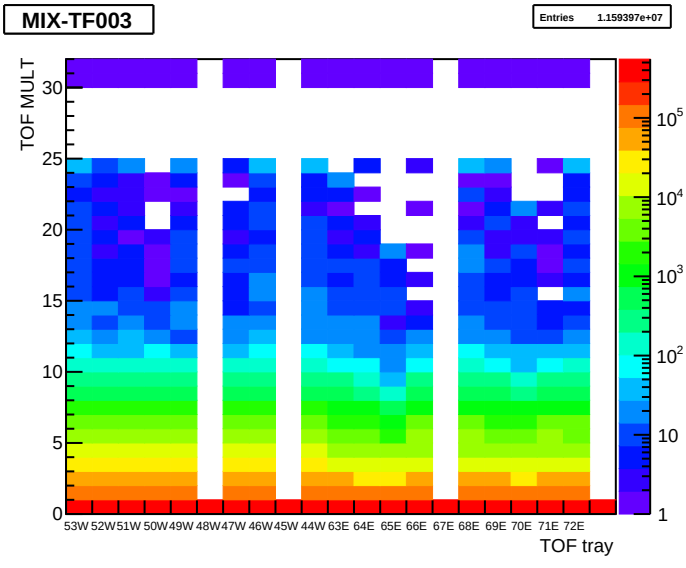

BunchId7Bit (BBC-TAC)
Entries 143541
10^3
10^2
10
1
0
20
40
60
80
100
120

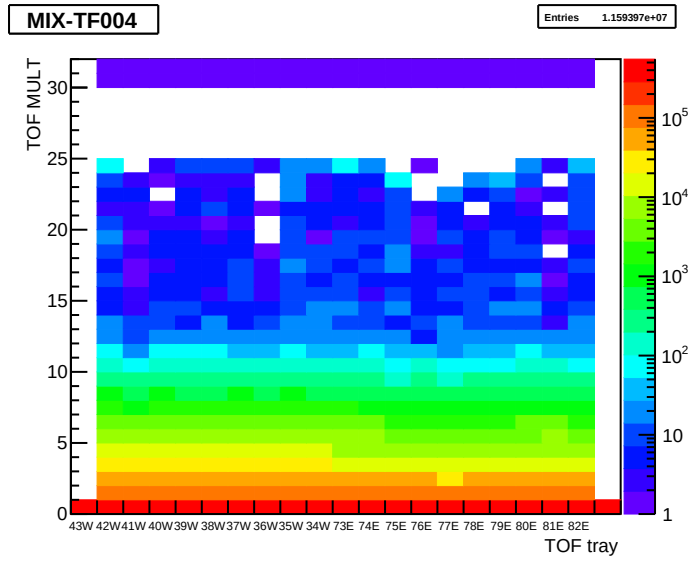

BunchId7Bit (Laser)
Entries 3295
0
20
40
60
80
100
120

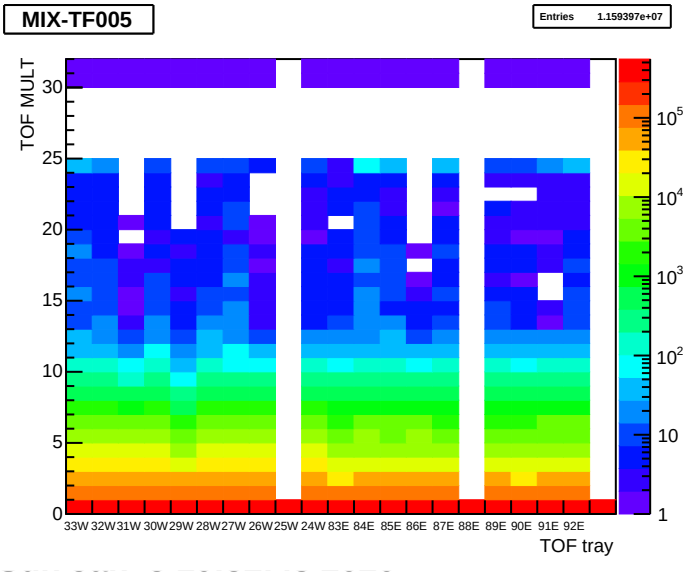

BunchId7Bit (TOFmult window)
Entries 18278
10^2
10
1
0
20
40
60
80
100
120

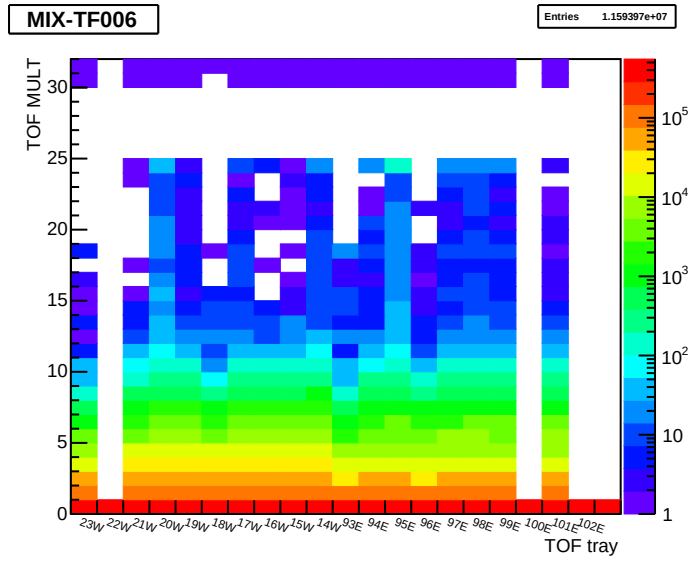

MIX-TF001
Entries 1.159397e+07
TOF MULT
TOF tray

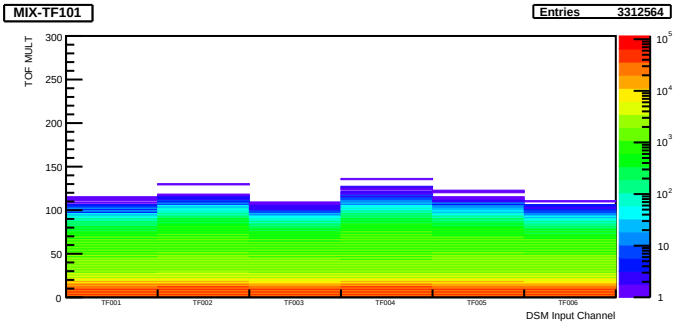

MIX-TF002
Entries 1.159397e+07
TOF MULT
TOF tray

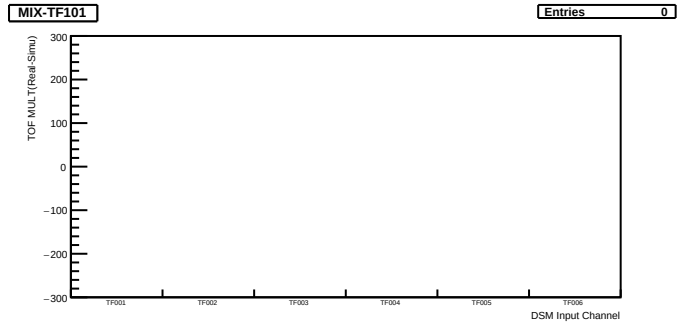

MIX-TF003
Entries 1.159397e+07
TOF MULT
TOF tray

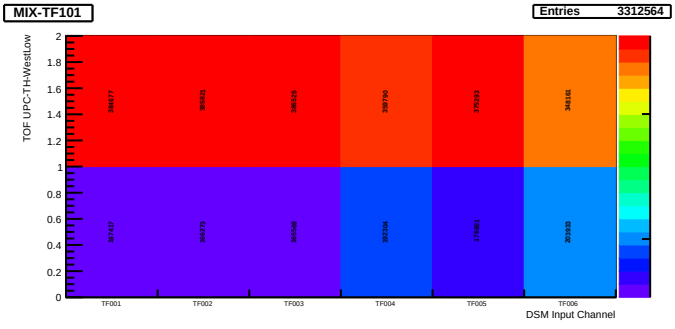

MIX-TF004
Entries 1.159397e+07
TOF MULT
TOF tray

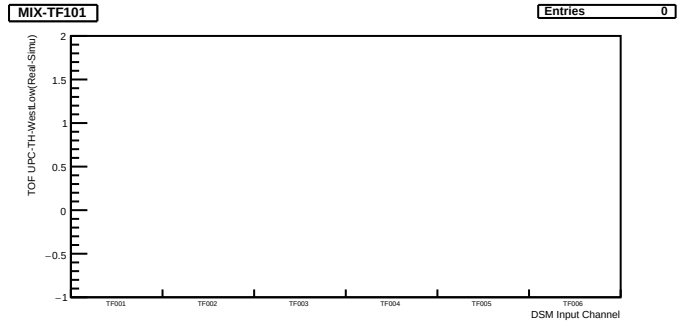

MIX-TF005
Entries 1.159397e+07
TOF MULT
TOF tray

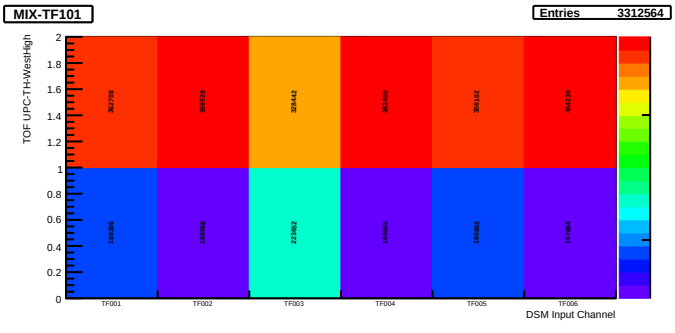

MIX-TF006
Entries 1.159397e+07
TOF MULT
TOF tray

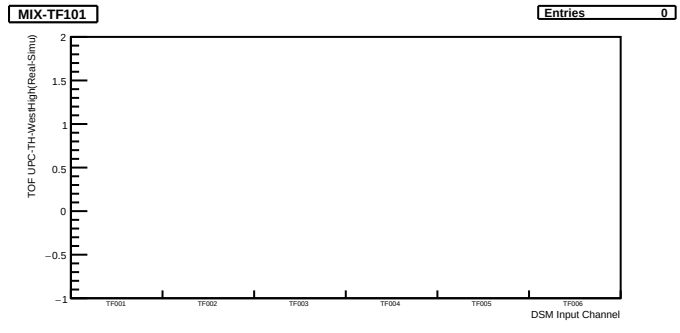

MIX-TF101
Entries 3312564
TOF MULT
DSM Input Channel

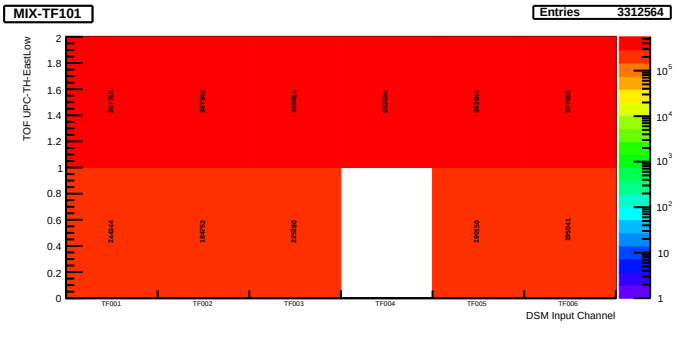

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel

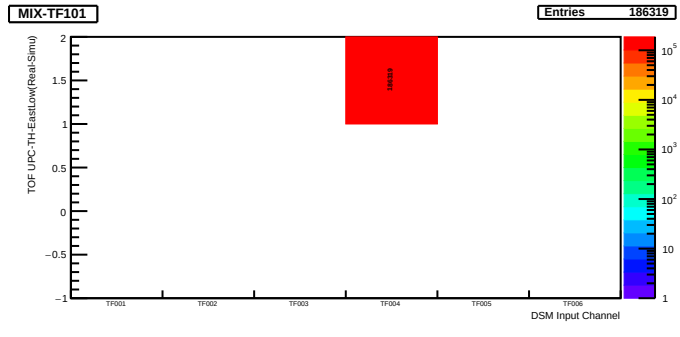

MIX-TF101
Entries 3312564
TOF UPC-TH-WestLow
DSM Input Channel

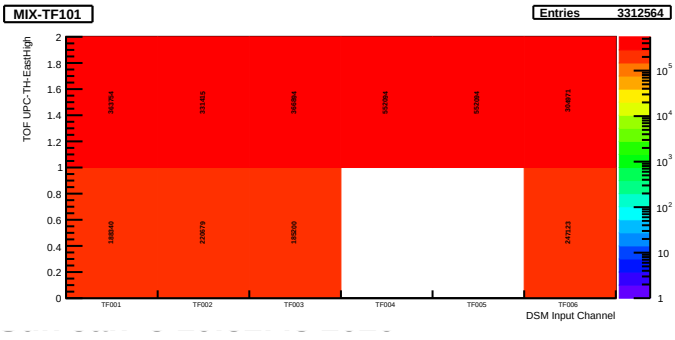

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel

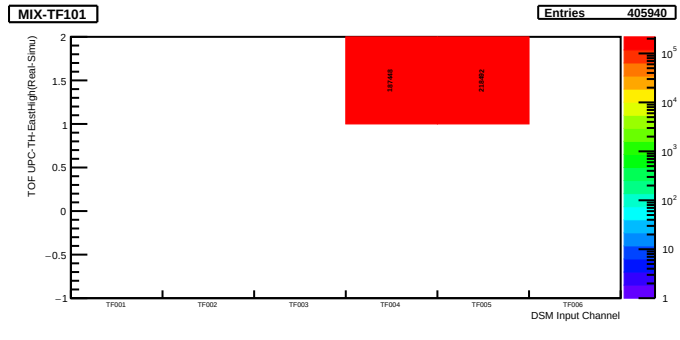

MIX-TF101
Entries 3312564
TOF UPC-TH-WestHigh
DSM Input Channel

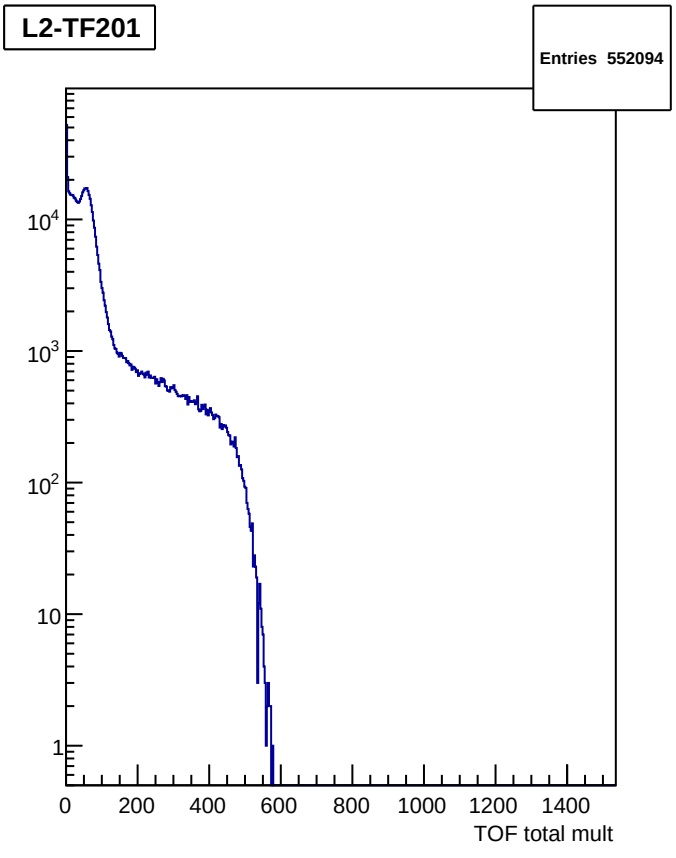

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel

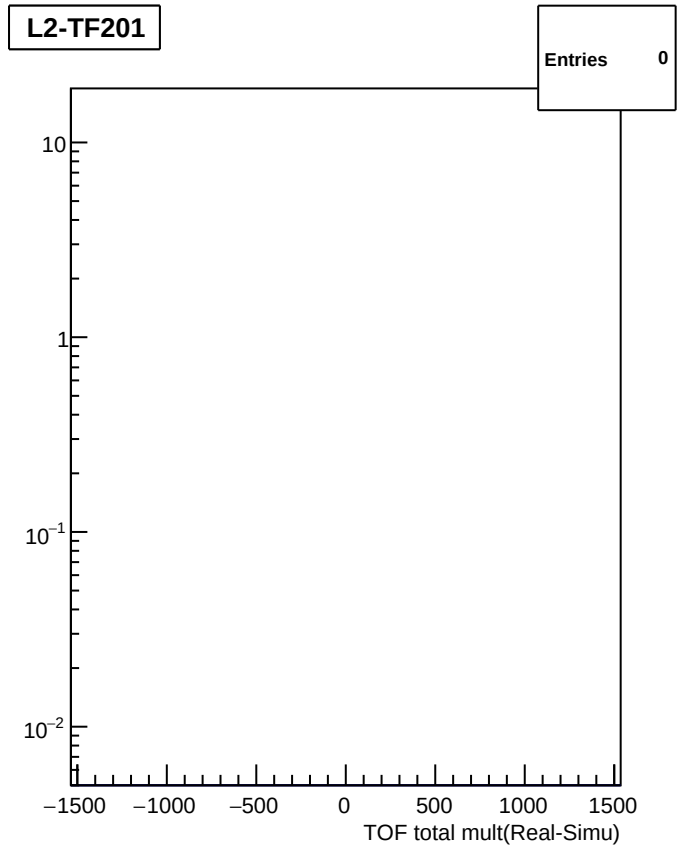

MIX-TF101
Entries 3312564
TOF UPC-TH-EastLow
DSM Input Channel

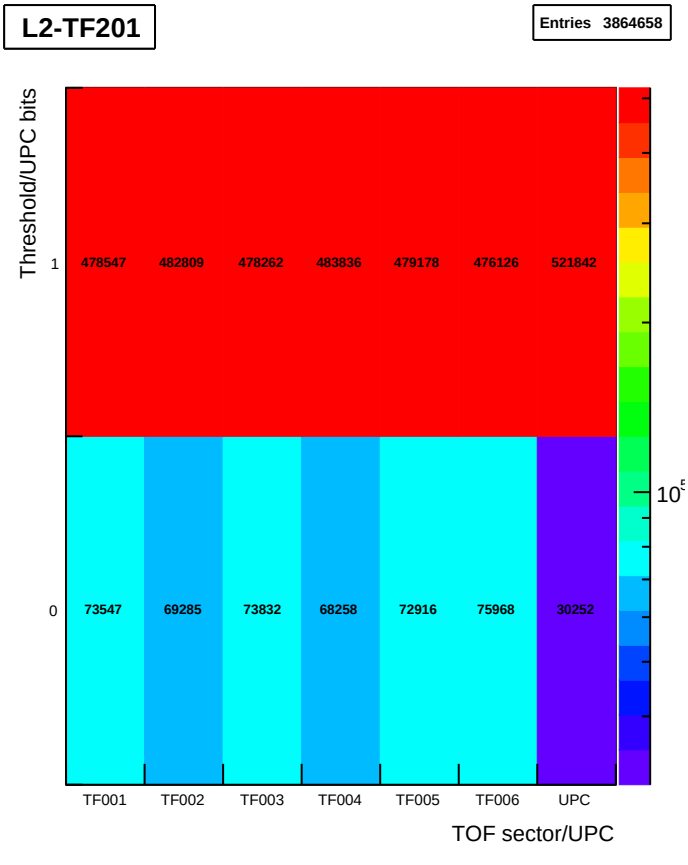

MIX-TF101
Entries 186319
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel

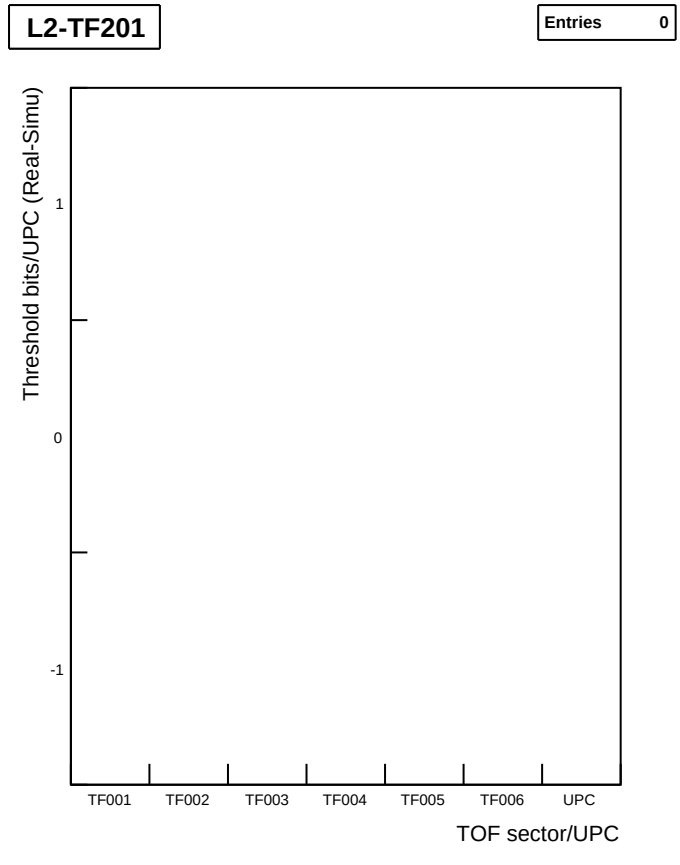

MIX-TF101
Entries 3312564
TOF UPC-TH-EastHigh
DSM Input Channel

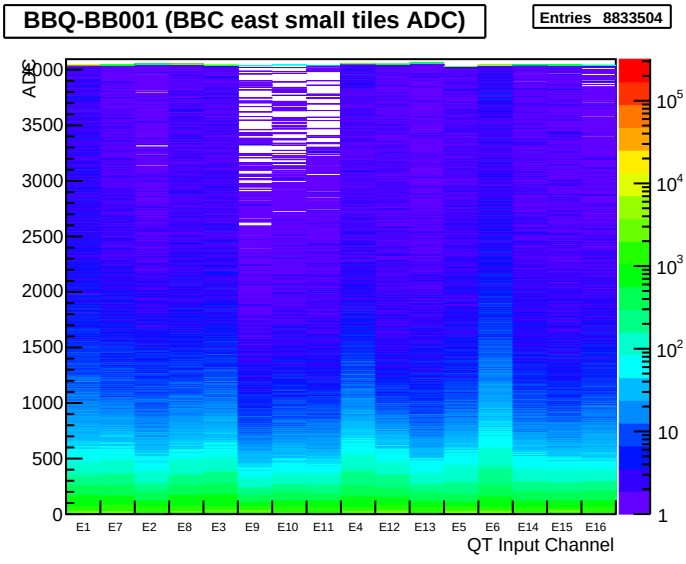

MIX-TF101
Entries 405940
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel

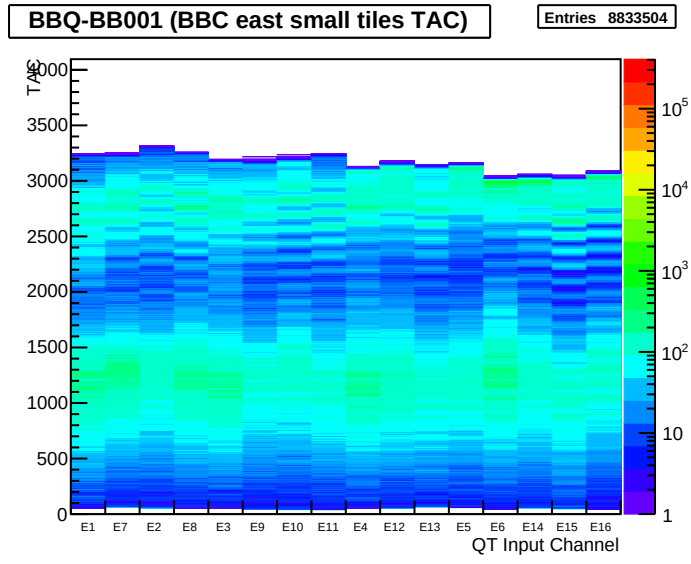

L2-TF201
Entries 552094
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

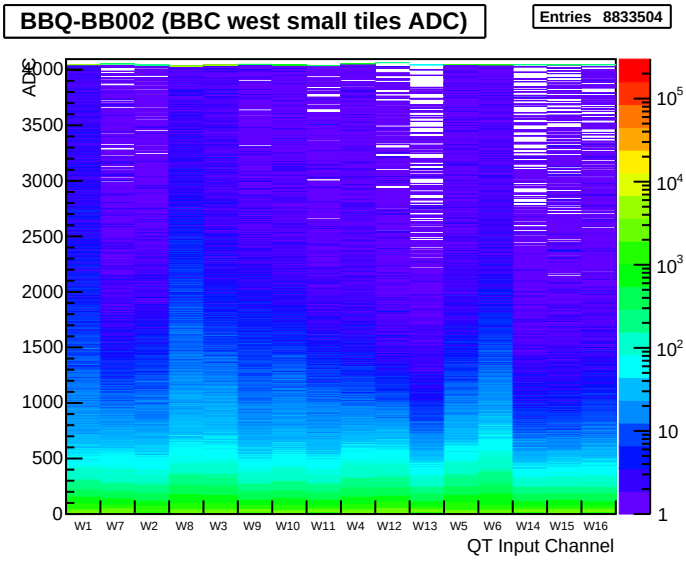

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

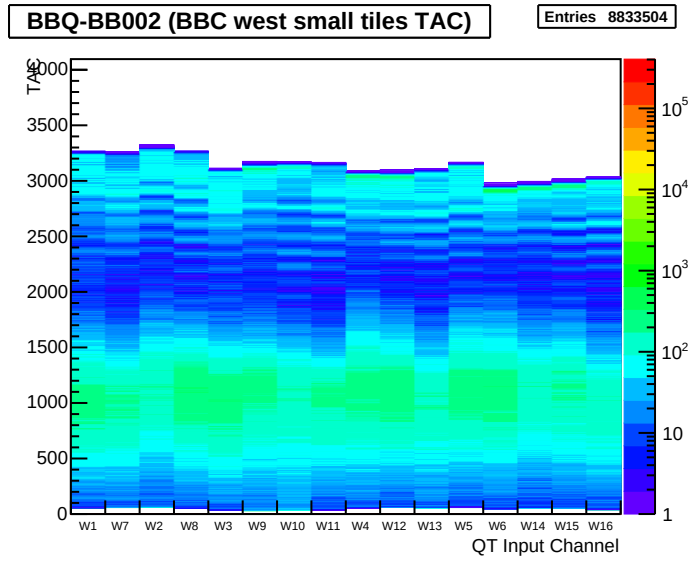

L2-TF201
Entries 3864658
Threshold/UPC bits
1
0
478547
482809
478262
483836
479178
476126
521842
73547
69285
73832
68258
72916
75968
30252
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

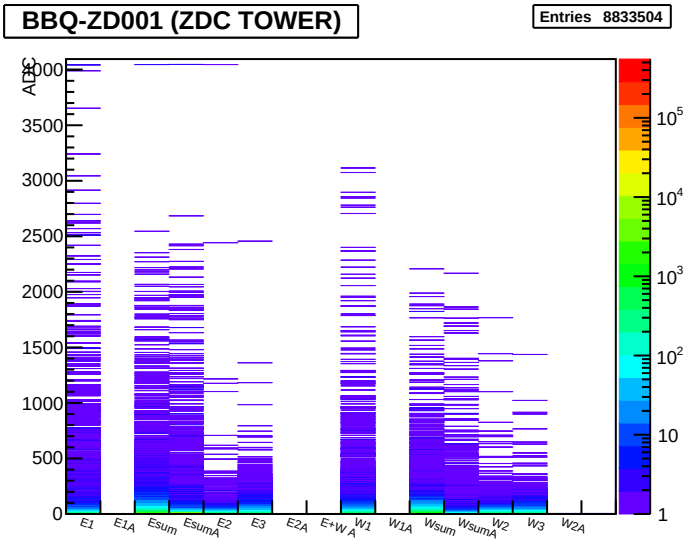

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

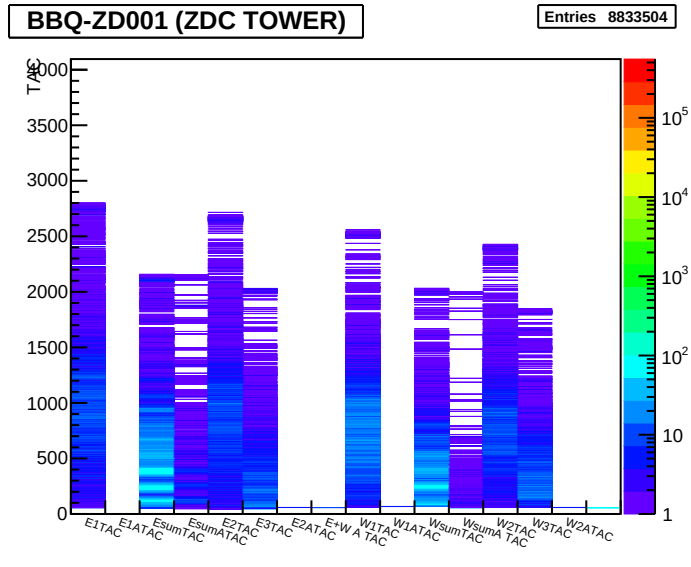

BBQ-BB001 (BBC east small tiles ADC)
Entries 8833504
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

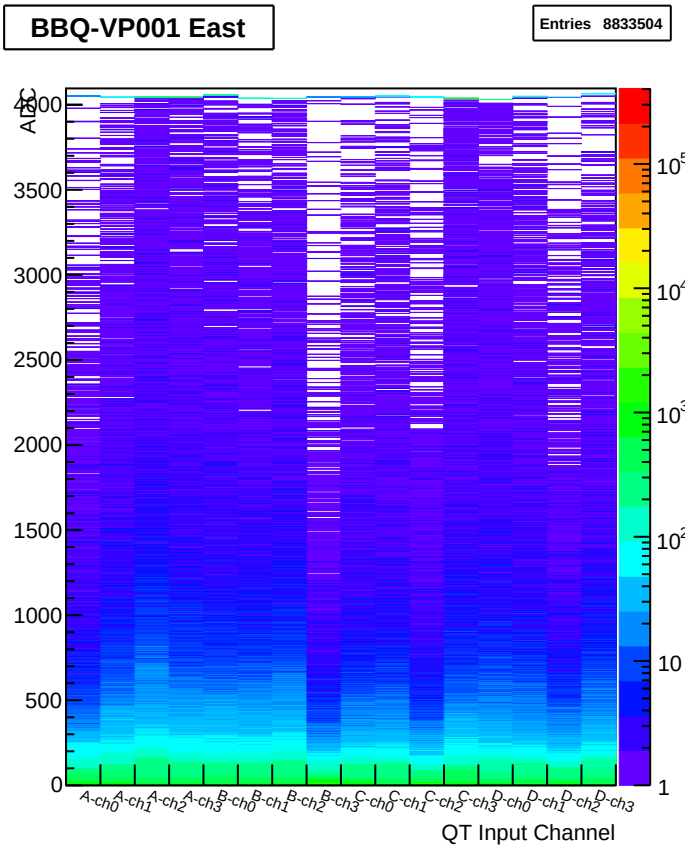

BBQ-BB001 (BBC east small tiles TAC)
Entries 8833504
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

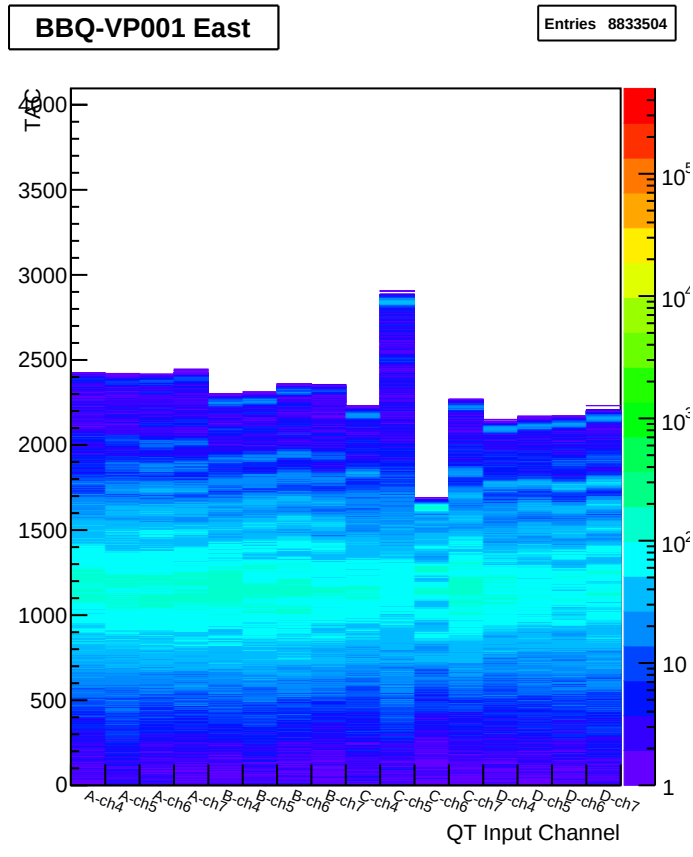

BBQ-BB002 (BBC west small tiles ADC)
Entries 8833504
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

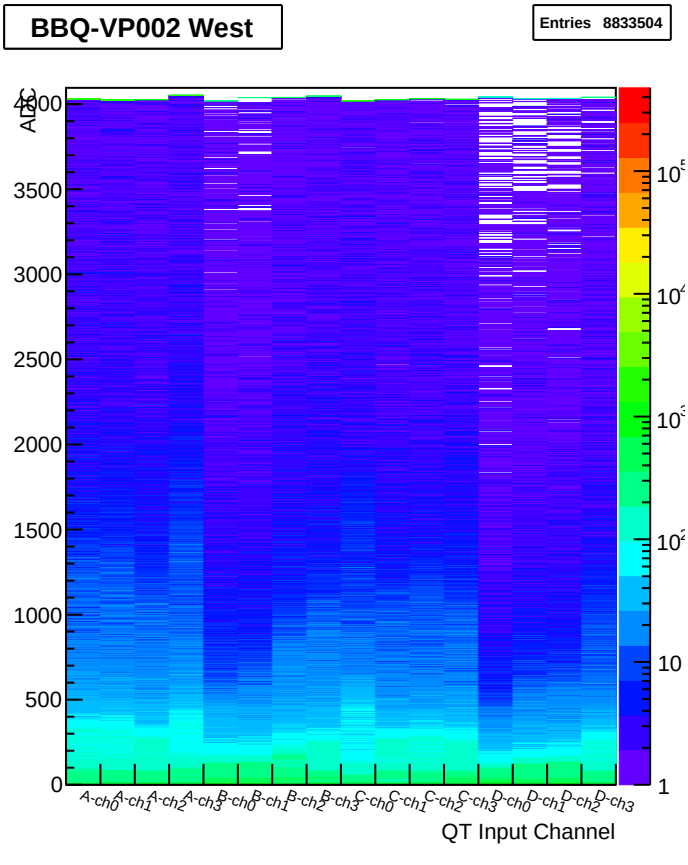

BBQ-BB002 (BBC west small tiles TAC)
Entries 8833504
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

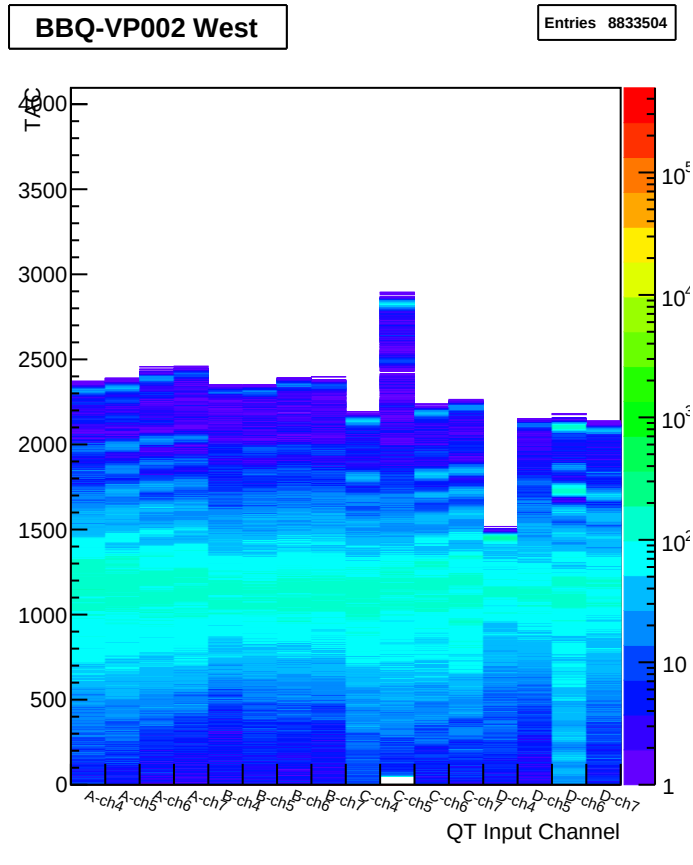

BBQ-ZD001 (ZDC TOWER)
Entries 8833504
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

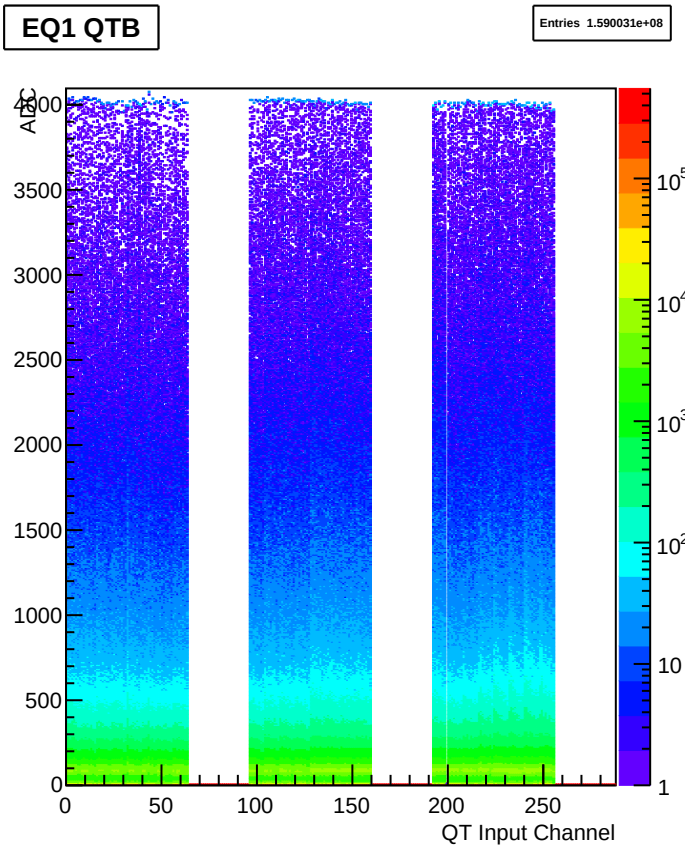

BBQ-ZD001 (ZDC TOWER)
Entries 8833504
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

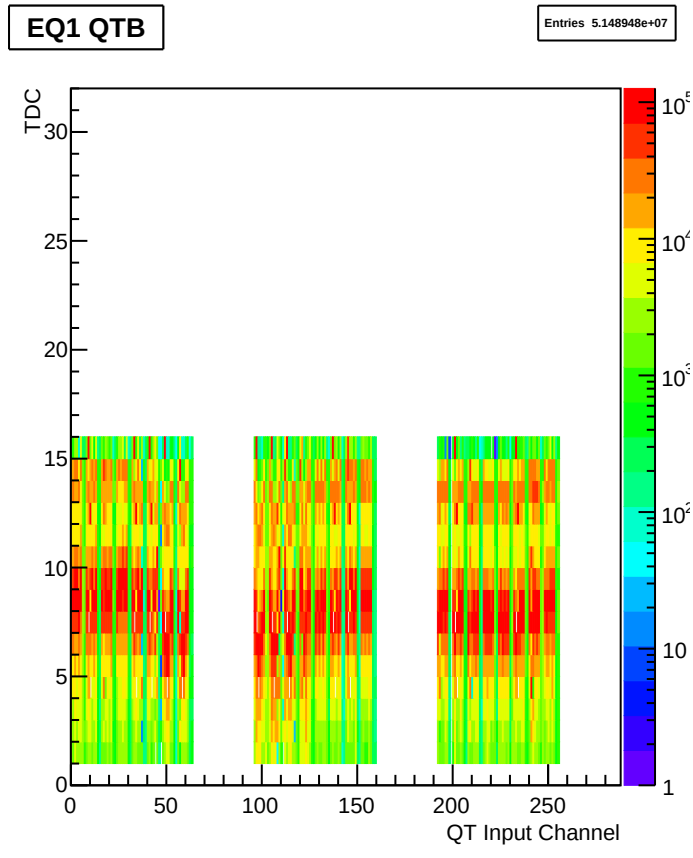

BBQ-VP001 East
Entries 8833504
ADC
QT Input Channel

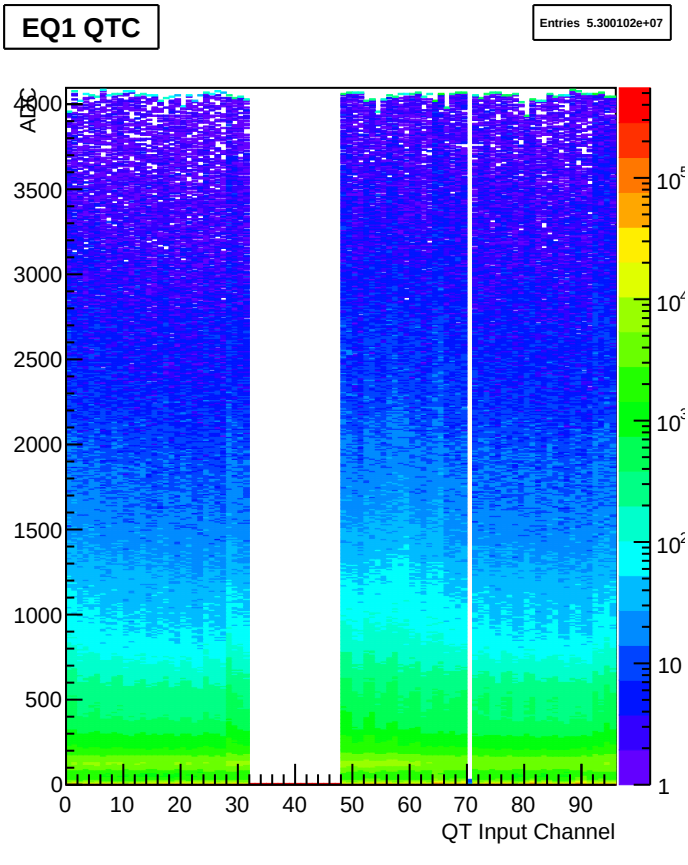

BBQ-VP001 East
Entries 8833504
ADC
QT Input Channel

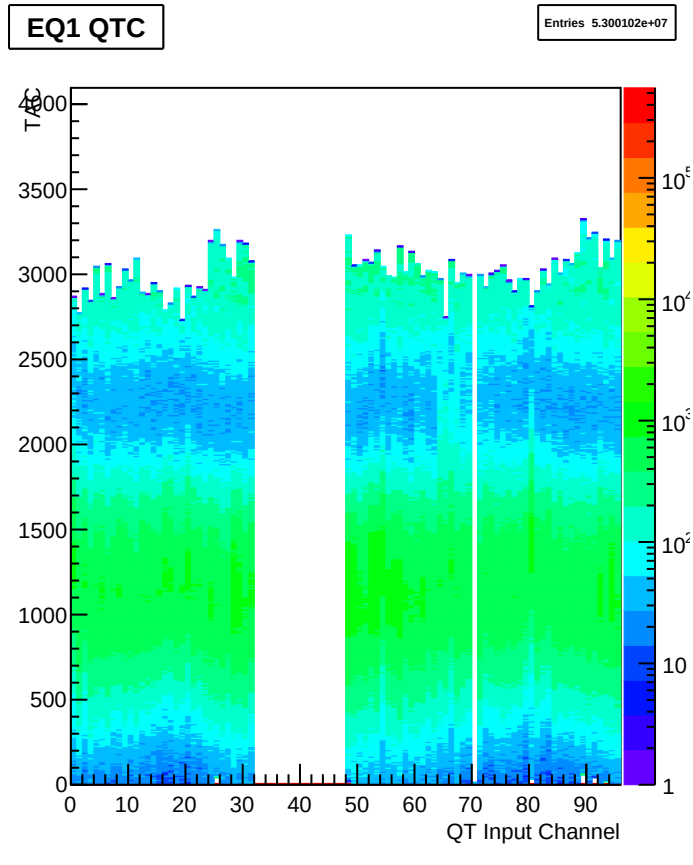

BBQ-VP002 West
Entries 8833504
ADC
QT Input Channel

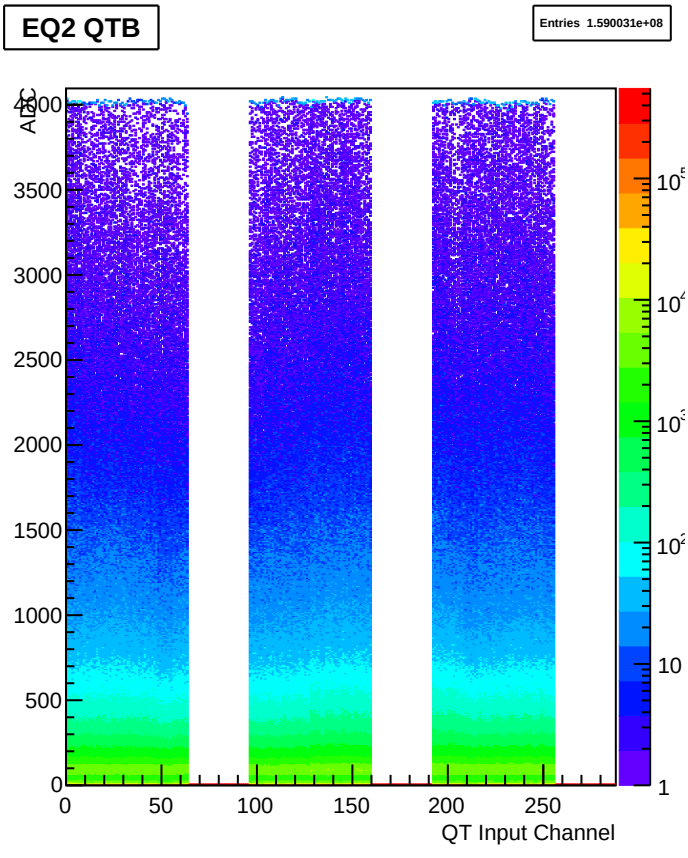

BBQ-VP002 West
Entries 8833504
ADC
QT Input Channel

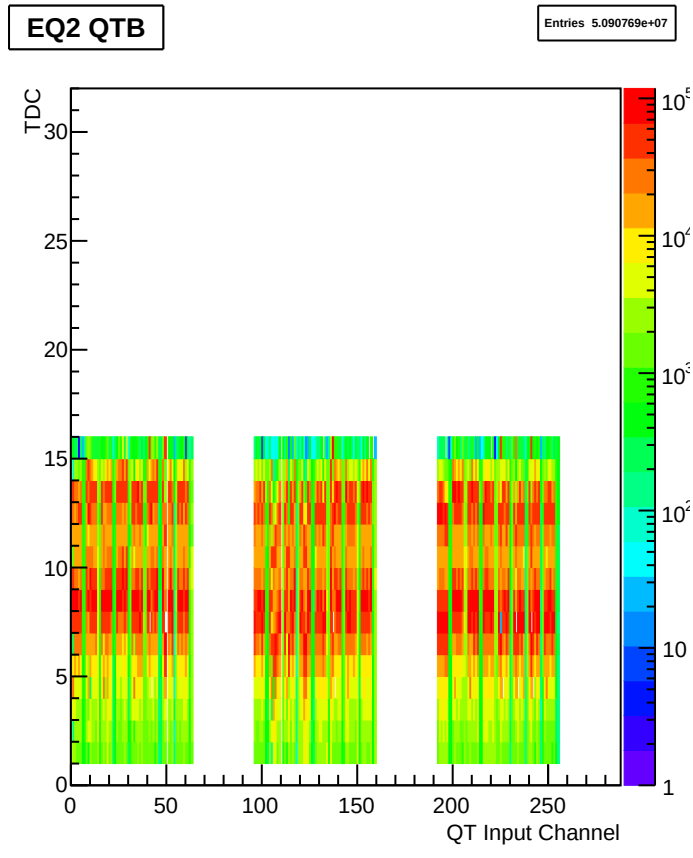

EQ1 QTB
Entries 1.590031e+08
ADC
QT Input Channel

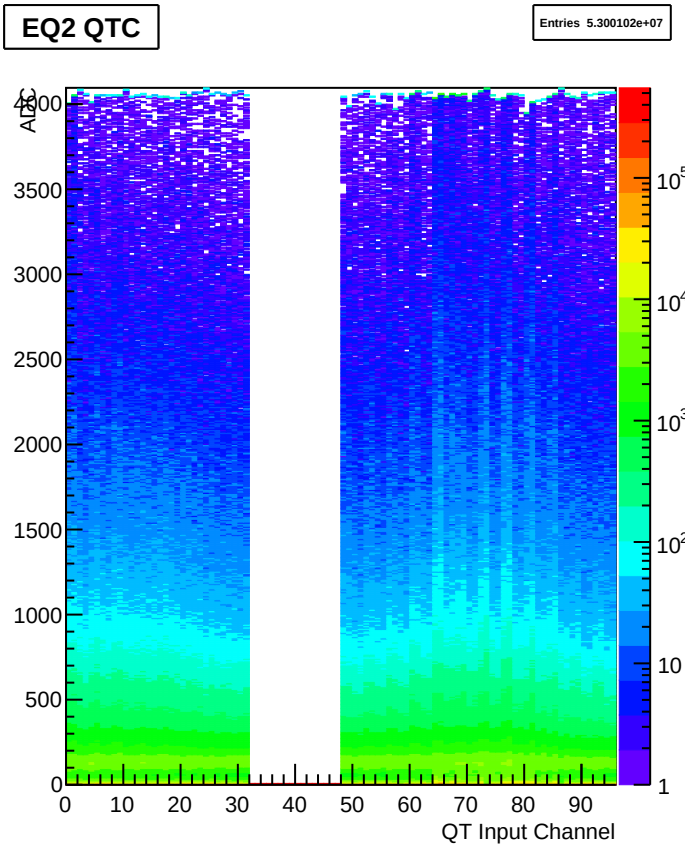

EQ1 QTB
Entries 5.148948e+07
TDC
QT Input Channel

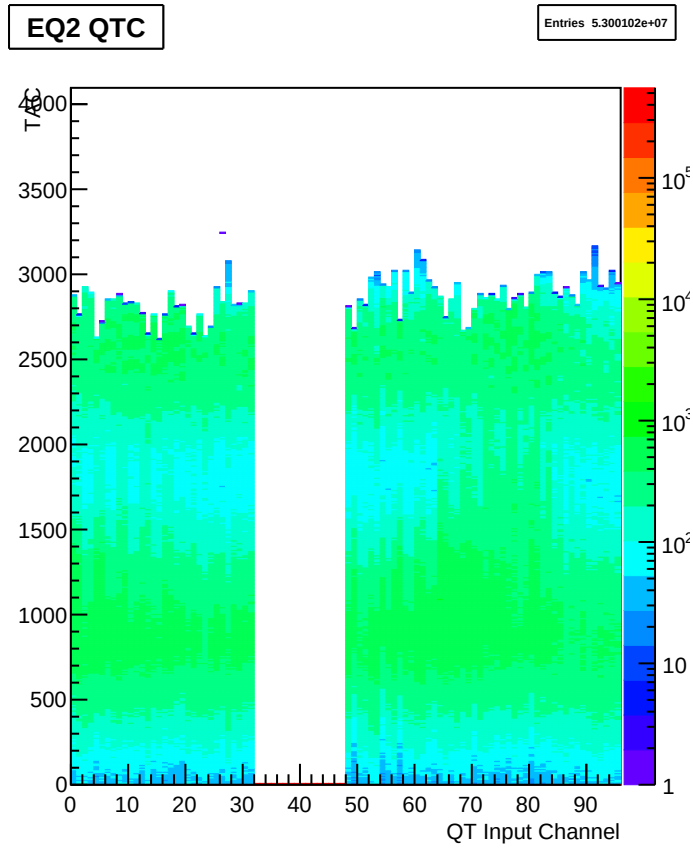

EQ1 QTC
Entries 5.300102e+07
ADC
QT Input Channel

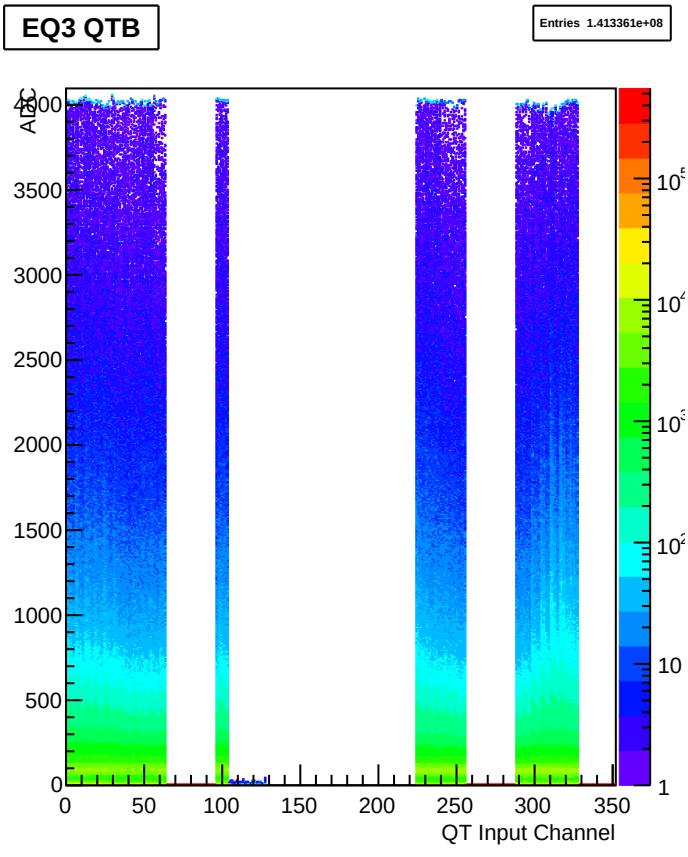

EQ1 QTC
Entries 5.300102e+07
TADC
QT Input Channel

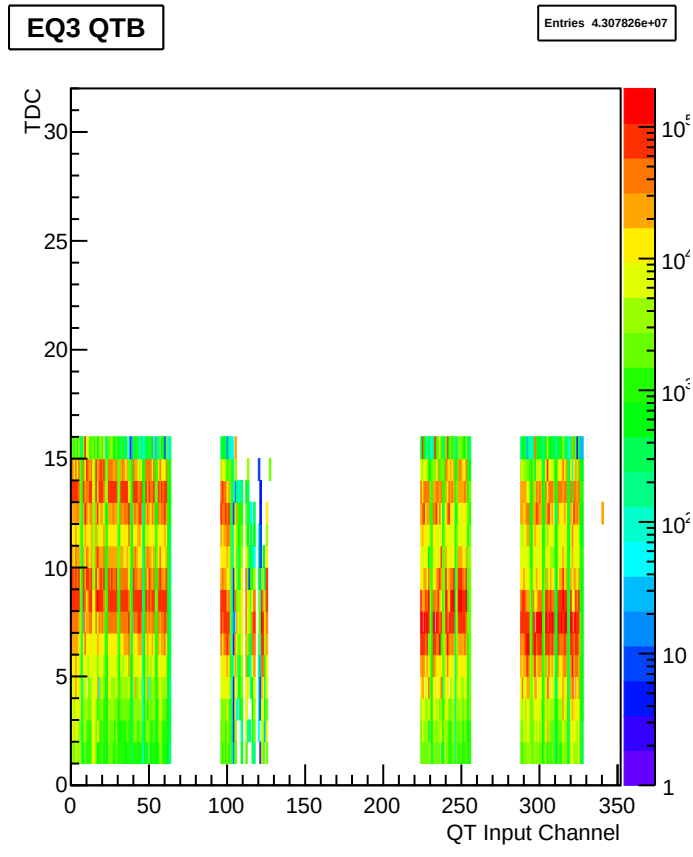

EQ2 QTB
Entries 1.590031e+08
ADC
QT Input Channel

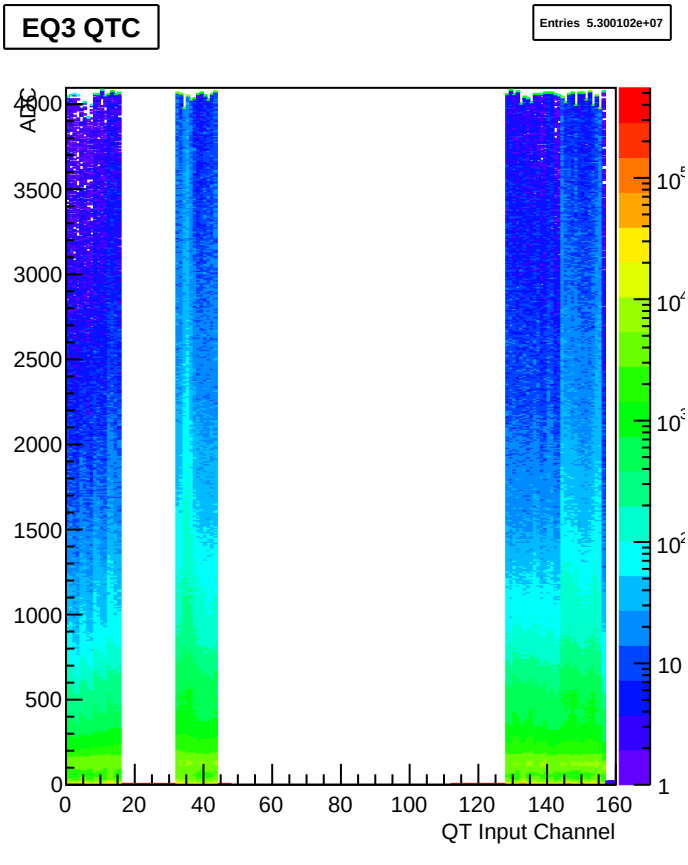

EQ2 QTB
Entries 5.090769e+07
TDC
QT Input Channel

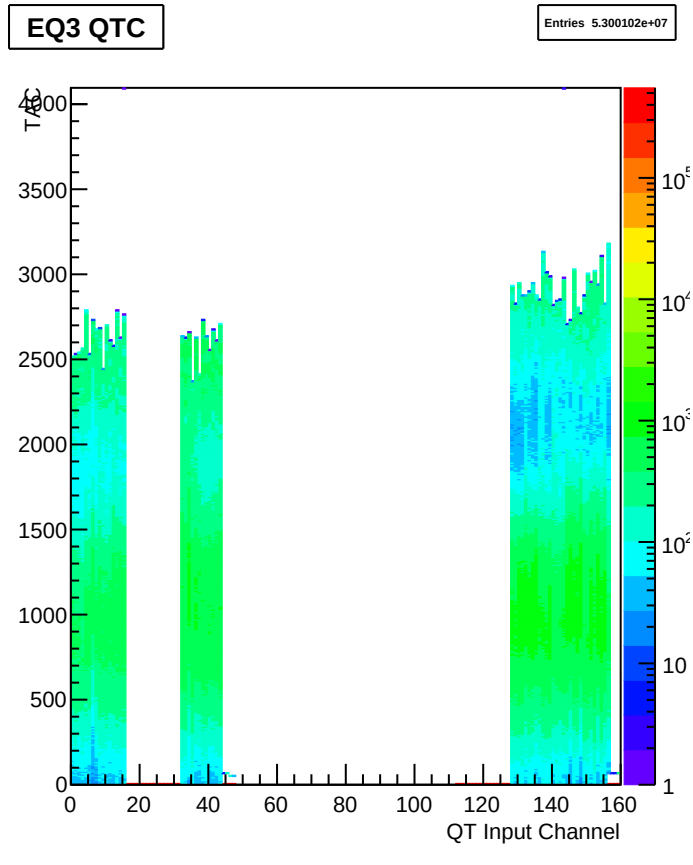

EQ2 QTC
Entries 5.300102e+07
ADC
QT Input Channel

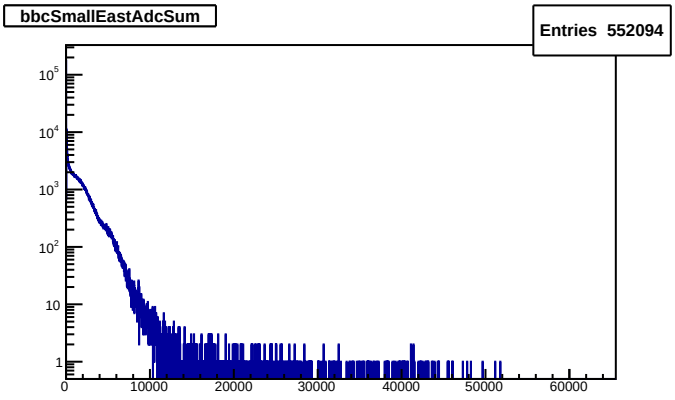

EQ2 QTC
Entries 5.300102e+07
TADC
QT Input Channel

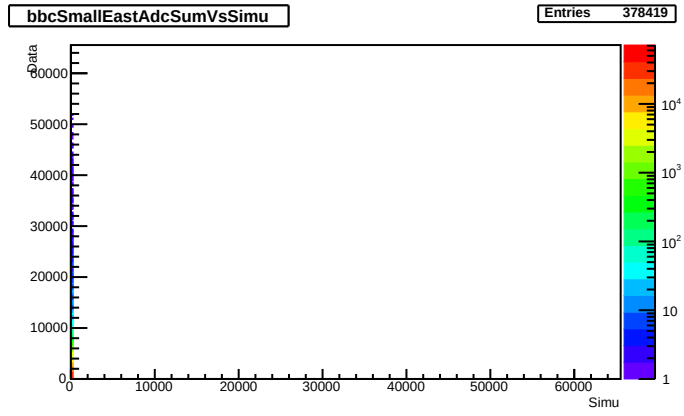

EQ3 QTB
Entries 1.413361e+08
ADC
QT Input Channel

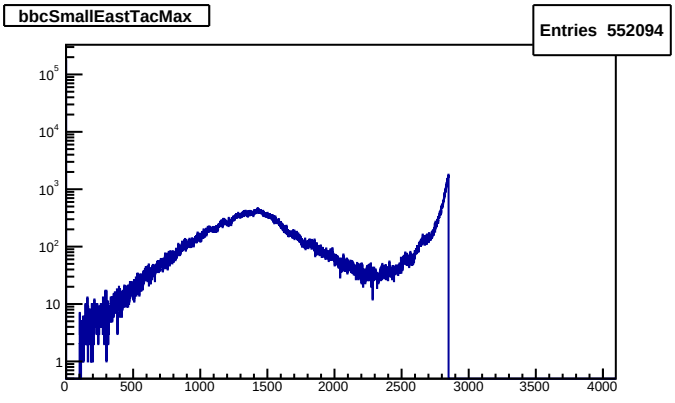

EQ3 QTB
Entries 4.307826e+07
TDC
QT Input Channel

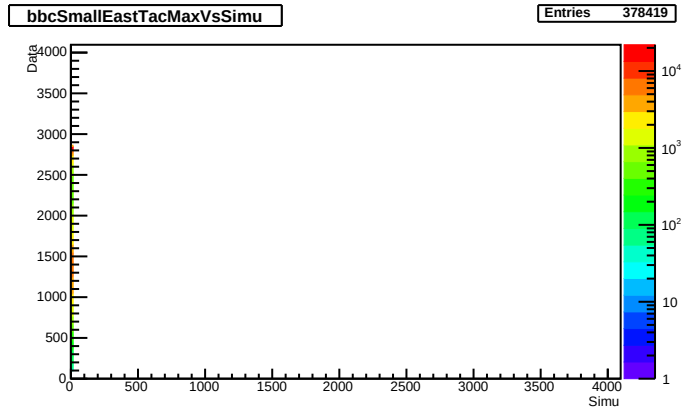

EQ3 QTC
Entries 5.300102e+07
ADC
QT Input Channel


EQ3 QTC
Entries 5.300102e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 552094


bbcSmallEastAdcSumVsSimu
Entries 378419
Data
Simu


bbcSmallEastTacMax
Entries 552094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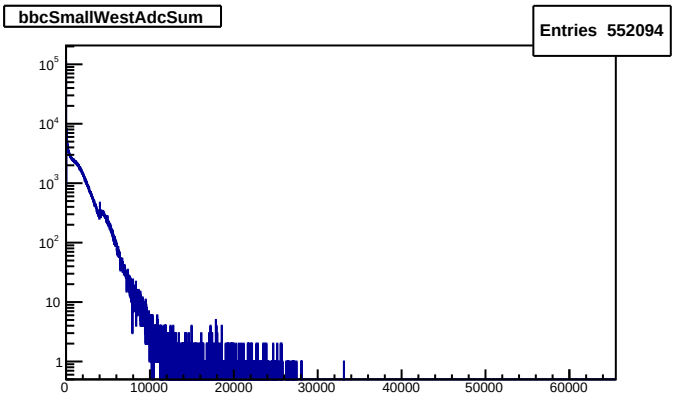
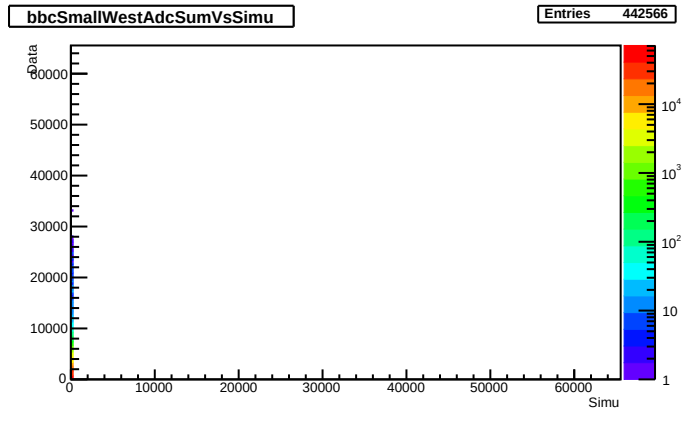
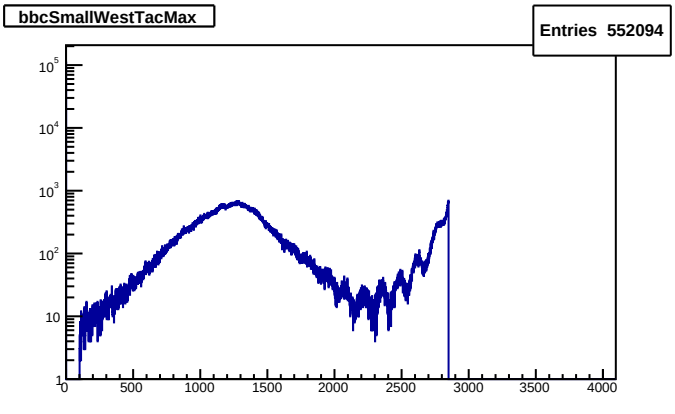
Entries 378419
Data
Simu


bbcSmallWestAdcSum
Entries 552094


bbcSmallWestAdcSumVsSimu
Entries 442566
Data
Simu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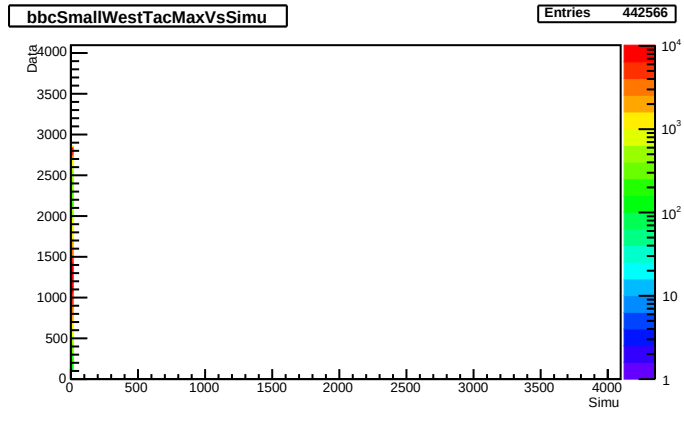
Entries 552094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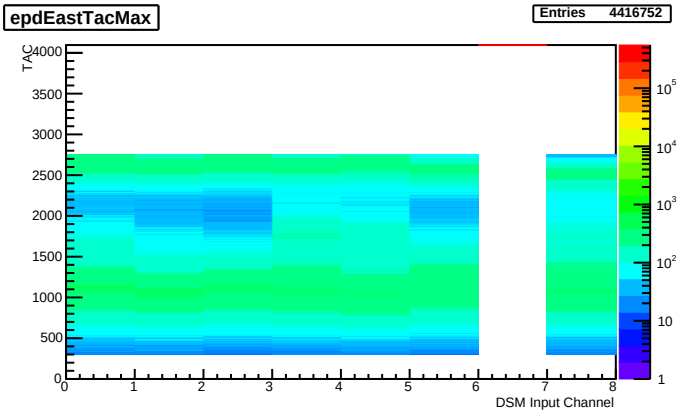
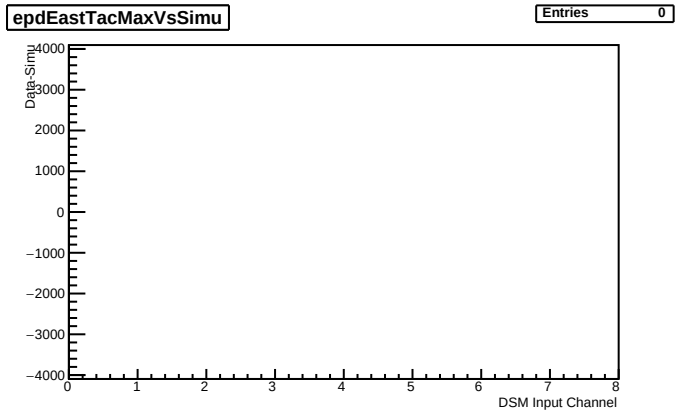
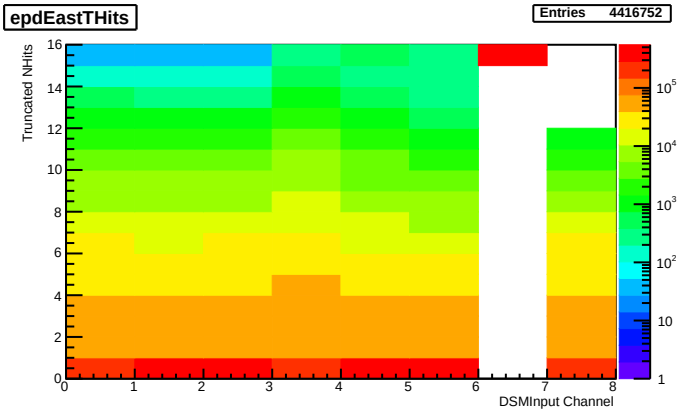
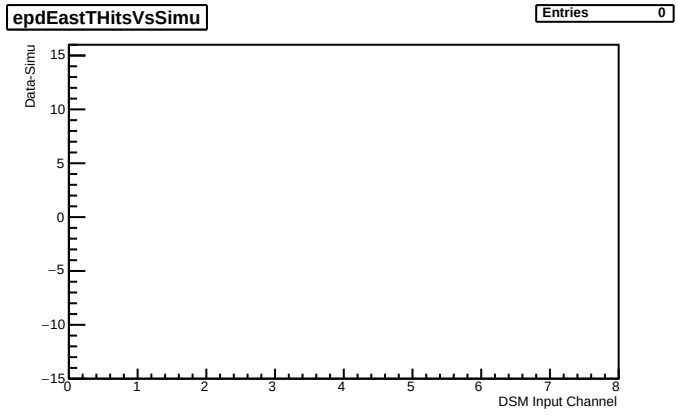
Entries 442566
Data
Simu


epdEastTacMax
Entries 4416752
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 4416752
Truncated NHits
DSMInput Channel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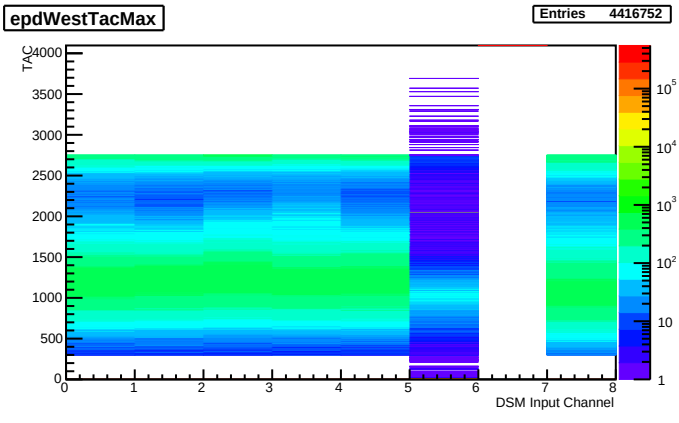
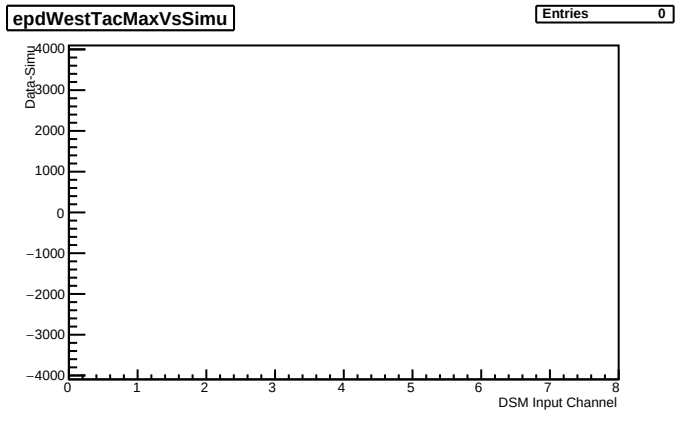
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 4416752
TAC
DSM Input Channel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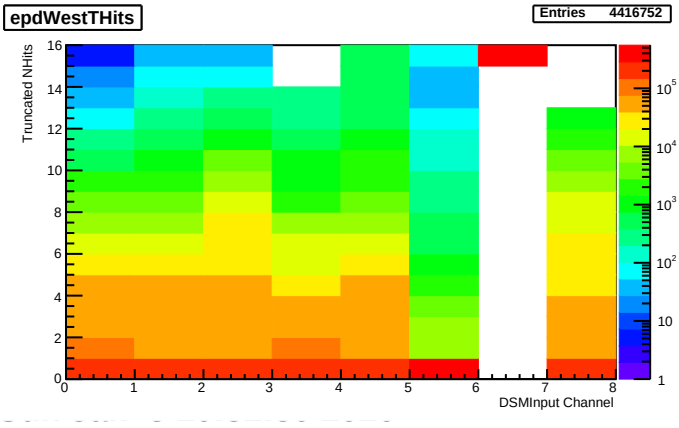
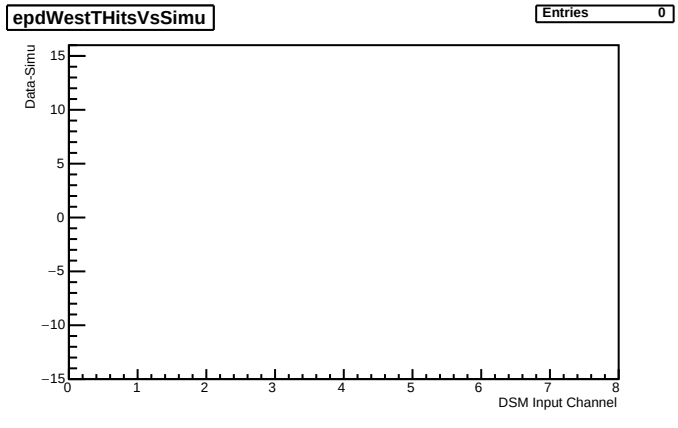
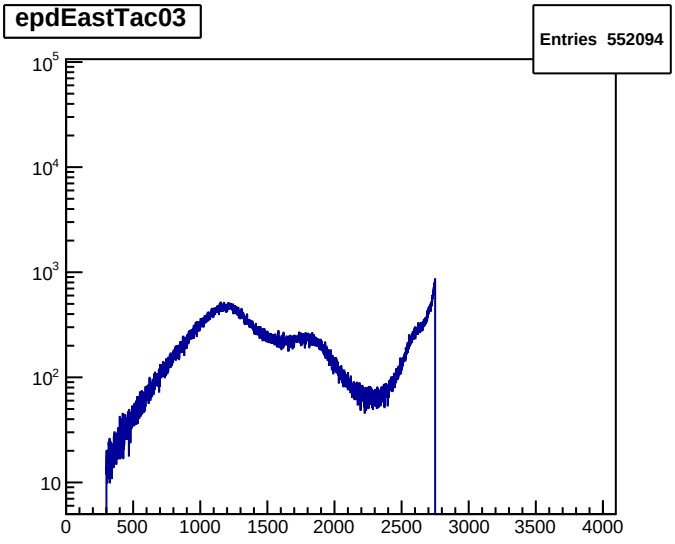
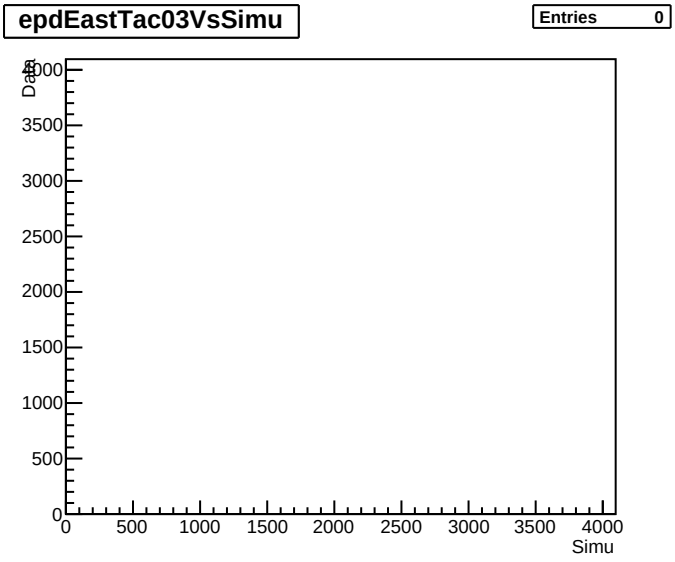
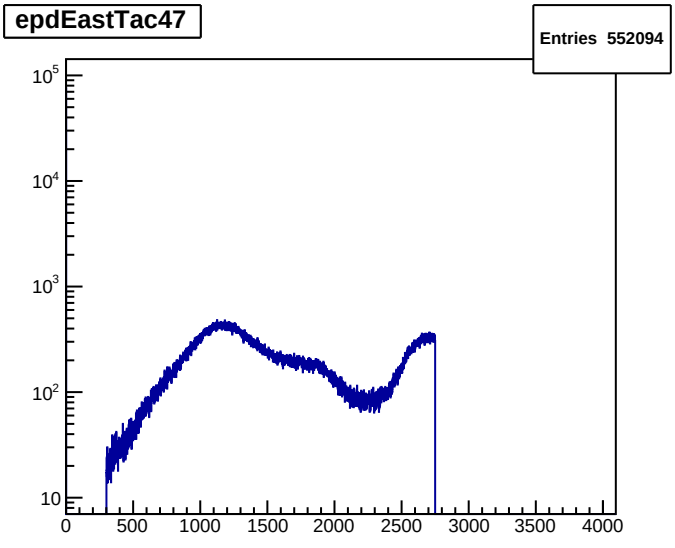
Entries 0
Data-Simu
DSM Input Channel

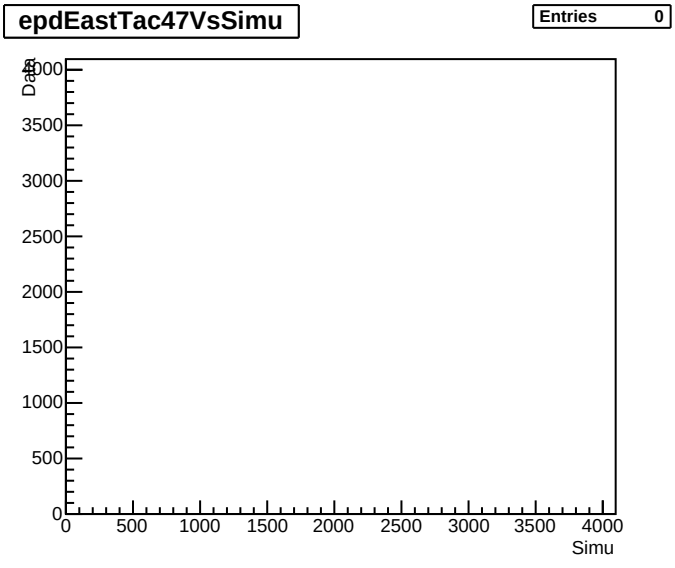

epdWestTHits
Entries 4416752
Truncated NHits
DSMInput Channel

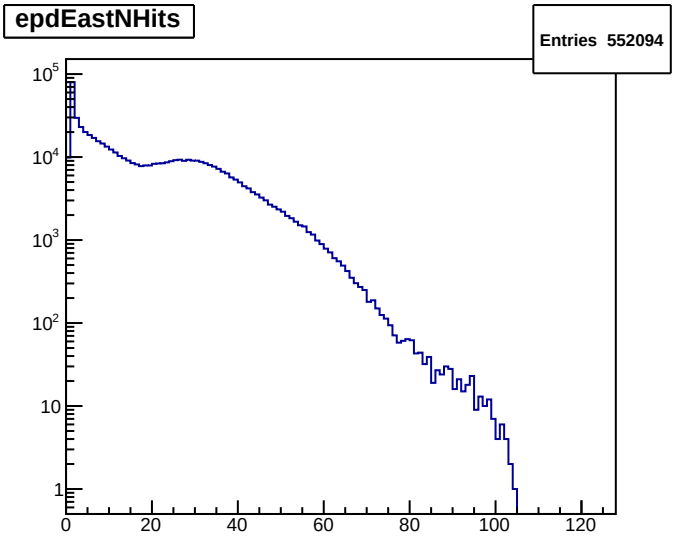

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

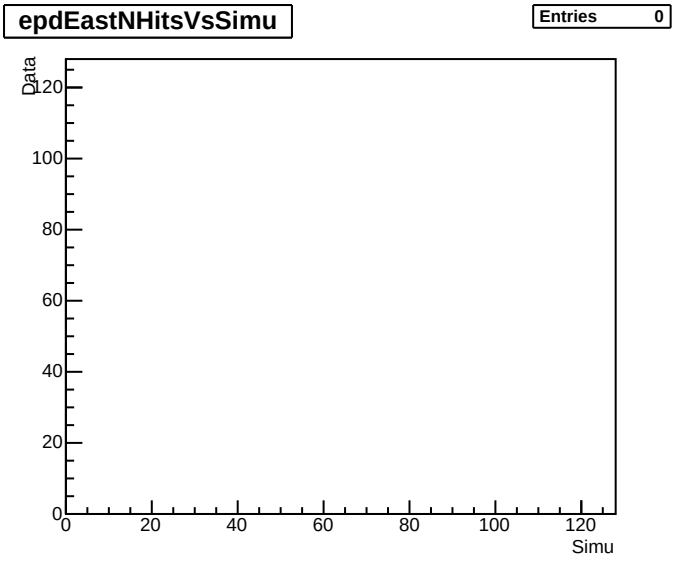

epdEastTac03
Entries 552094


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 552094


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 552094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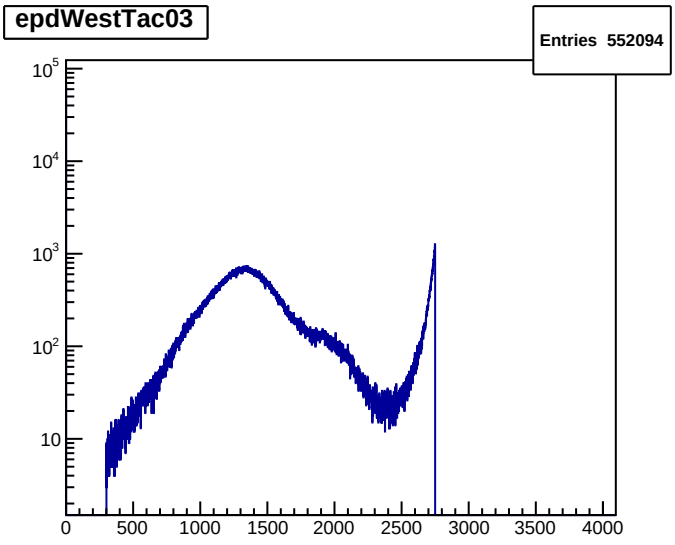
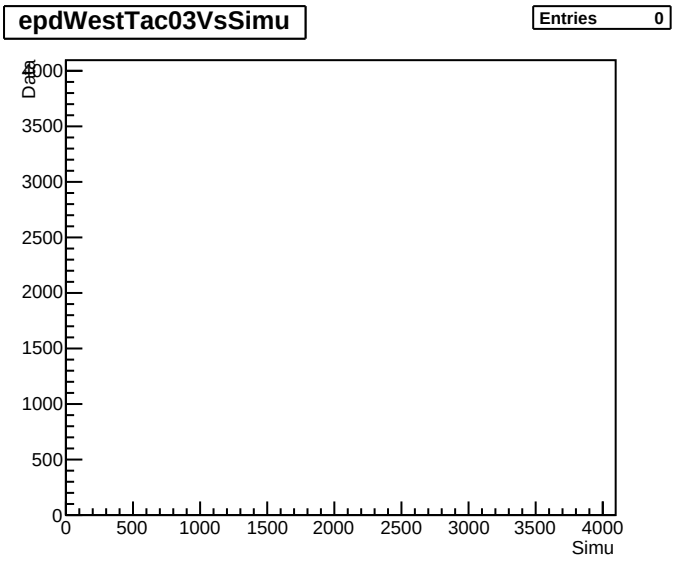
Entries 0
Data
Simu


epdWestTac03
Entries 552094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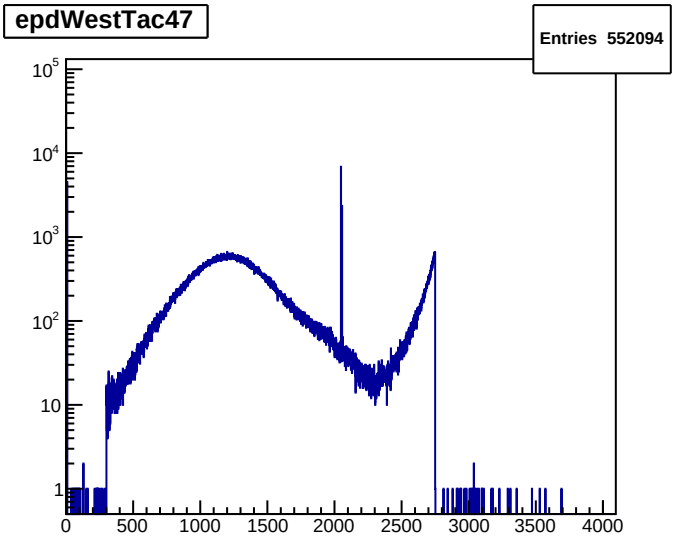
Entries 0
Data
Simu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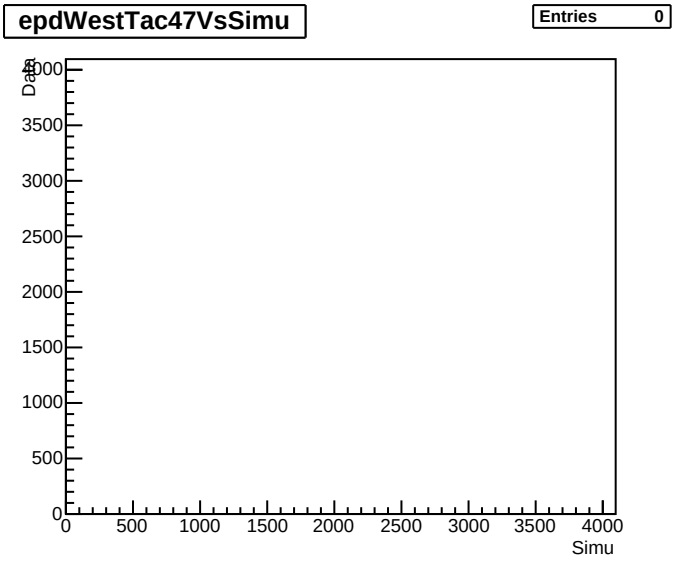
Entries 552094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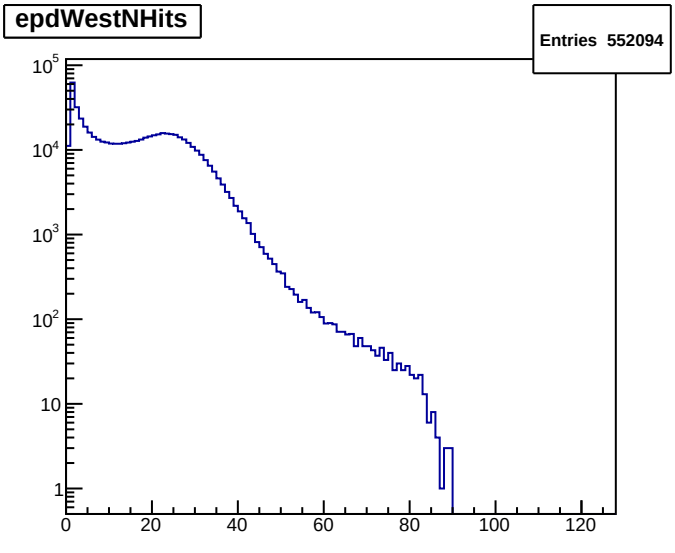
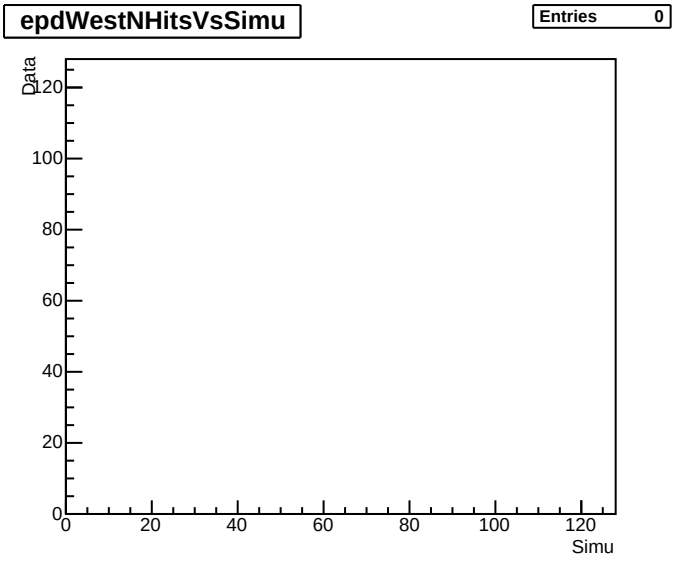
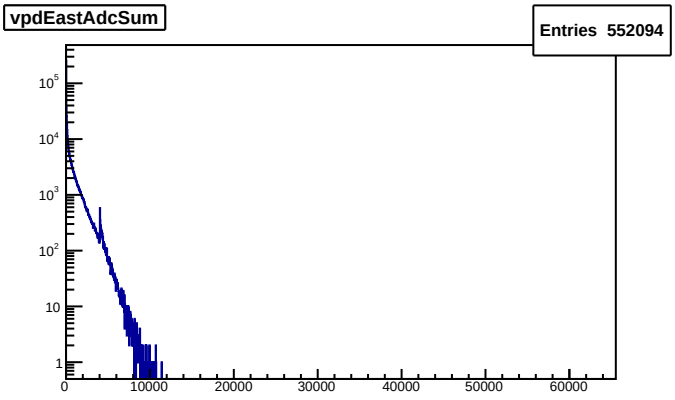
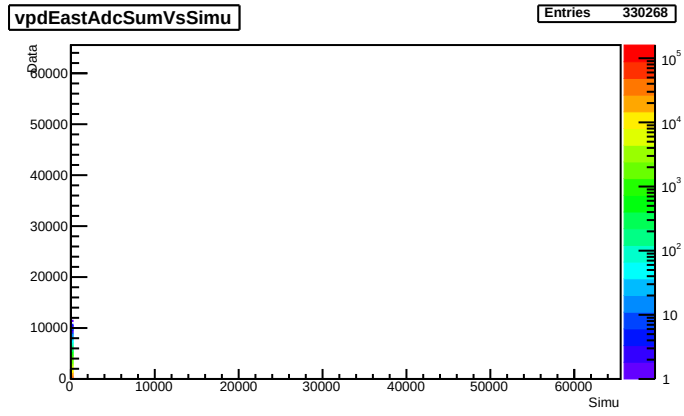
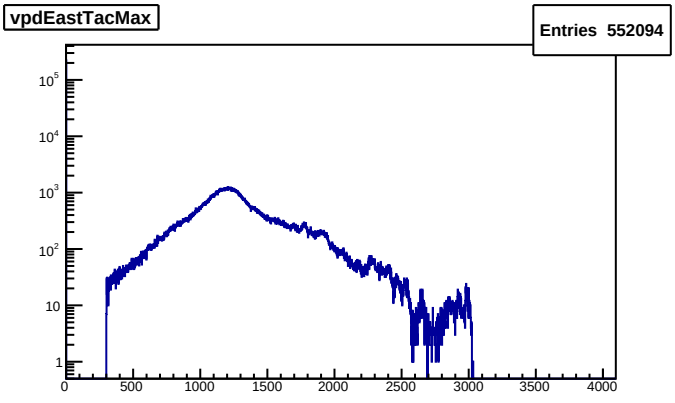
Entries 0
Data
Simu

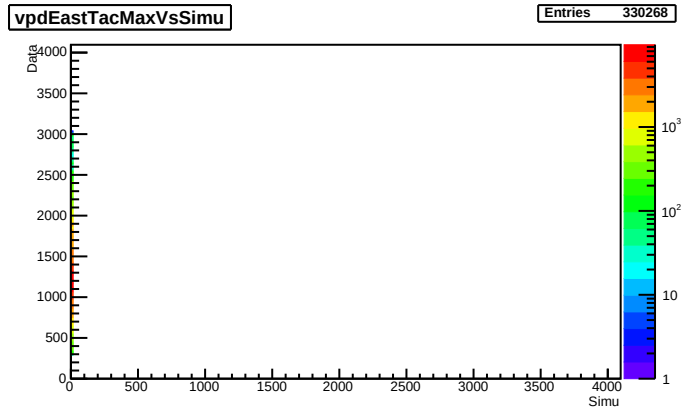

epdWestNHits
Entries 552094


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 552094


vpdEastAdcSumVsSimu
Entries 330268
Data
Simu


vpdEastTacMax
Entries 552094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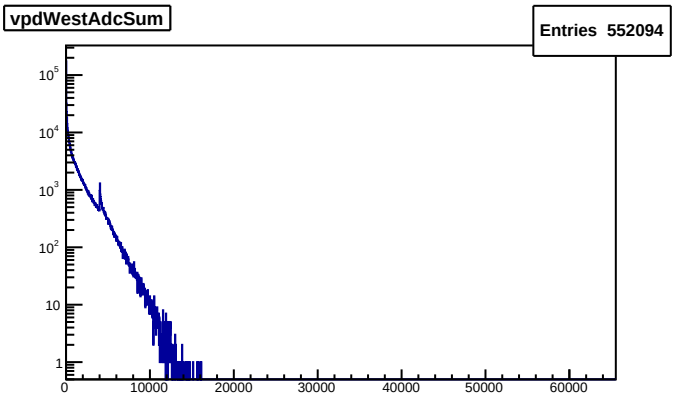
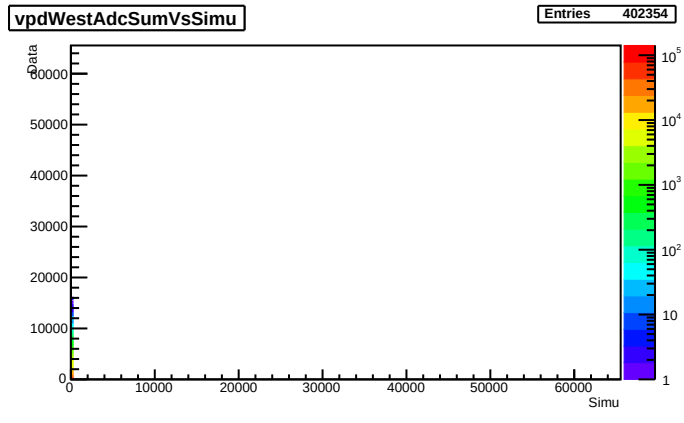
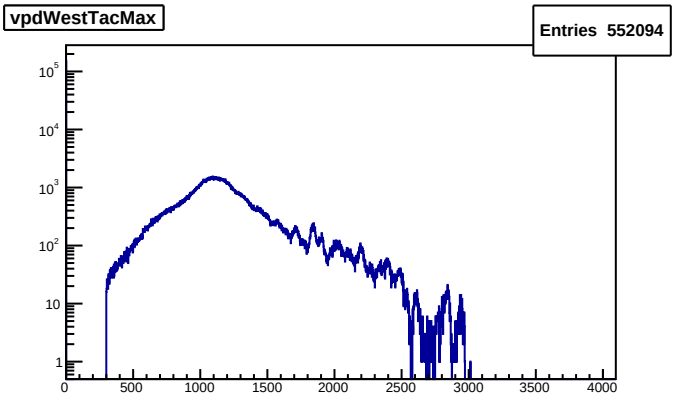
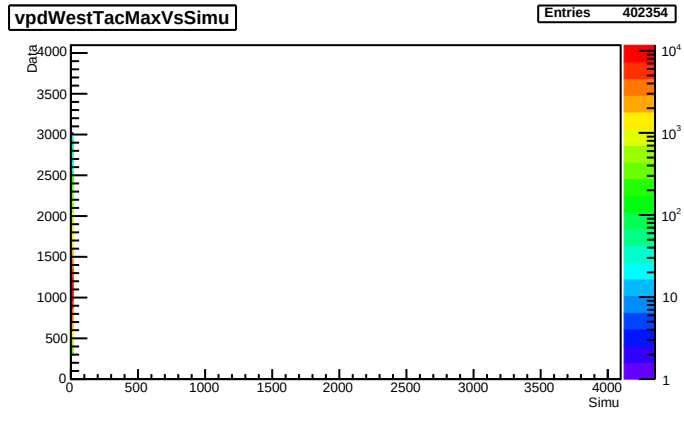
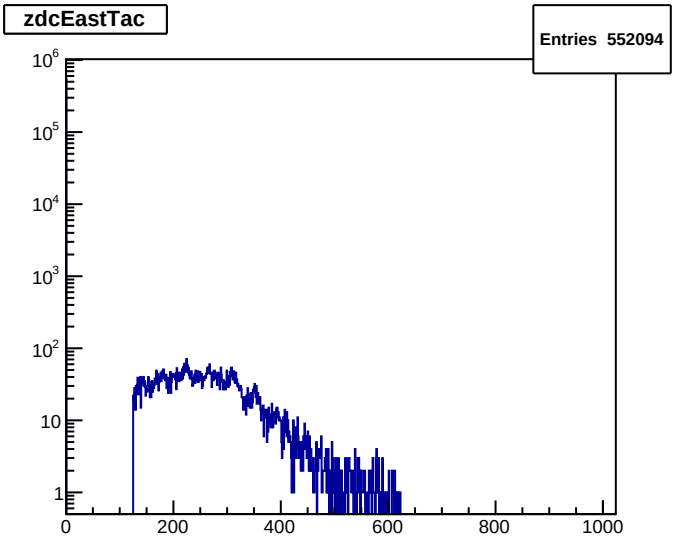
Entries 330268
Data
Simu

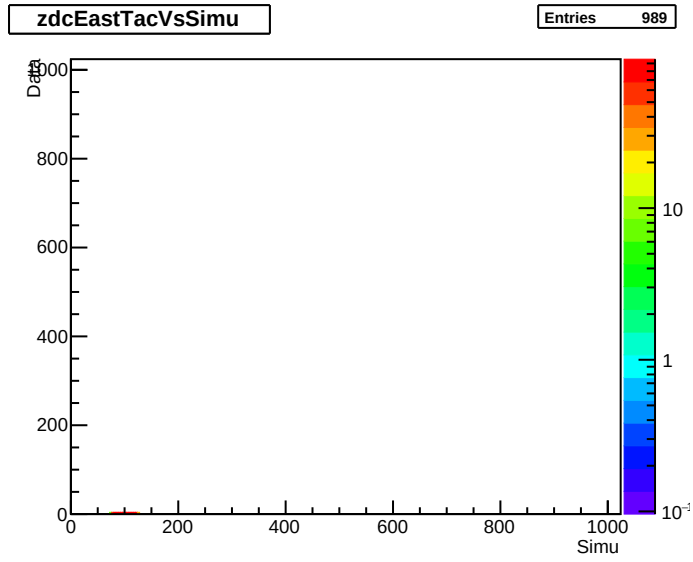

vpdWestAdcSum
Entries 552094

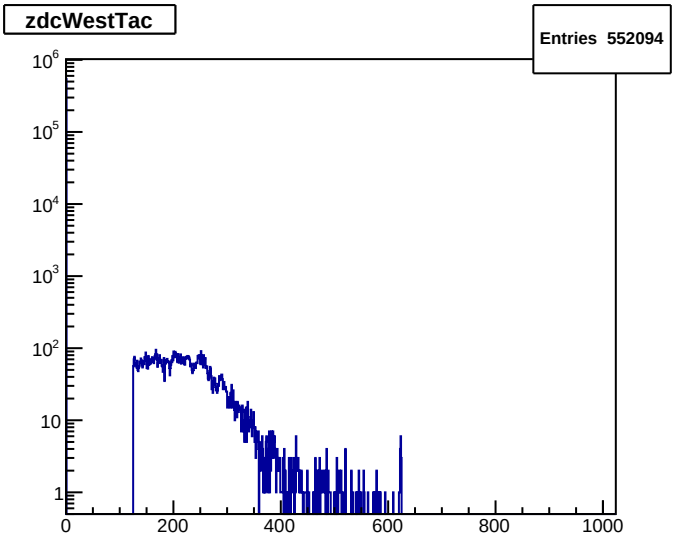

vpdWestAdcSumVsSimu
Entries 402354
Data
Simu

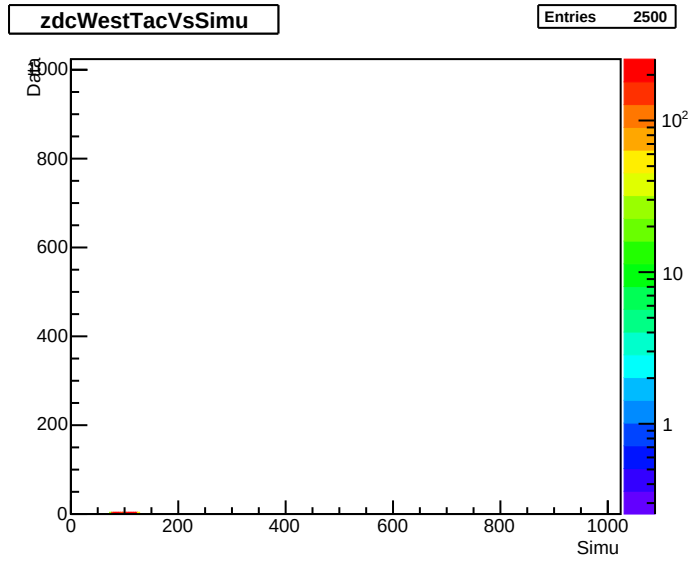

vpdWestTacMax
Entries 552094

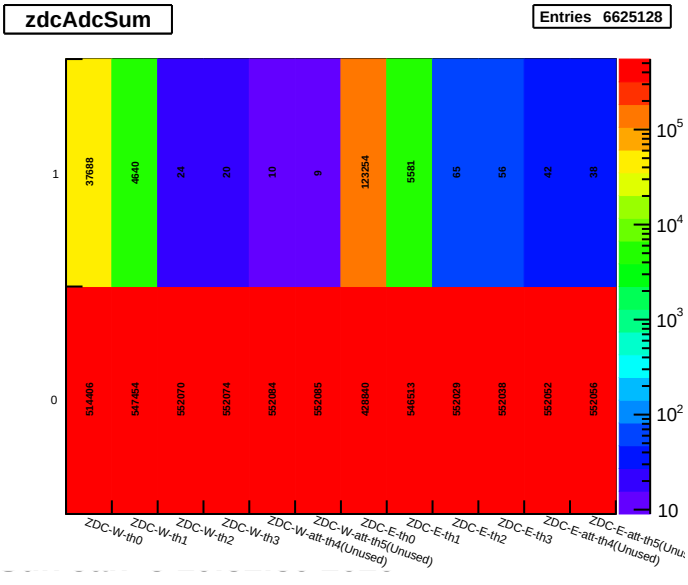

vpdWestTacMaxVsSimu
Entries 402354
Data
Simu

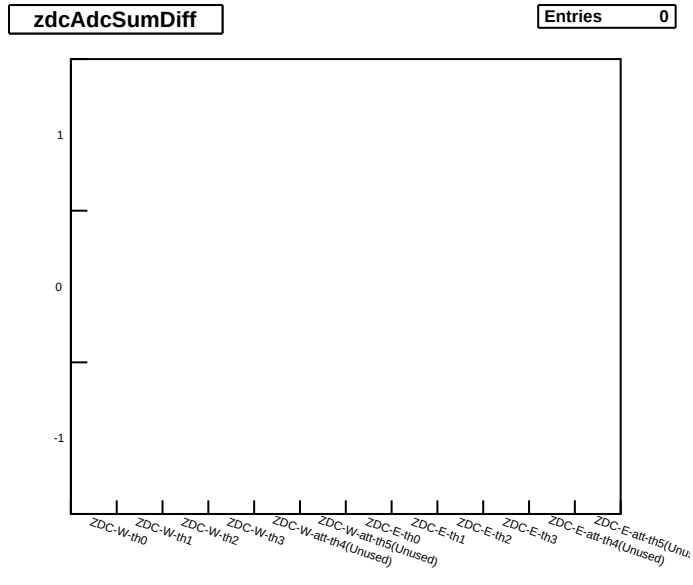

zdcEastTac
Entries 552094

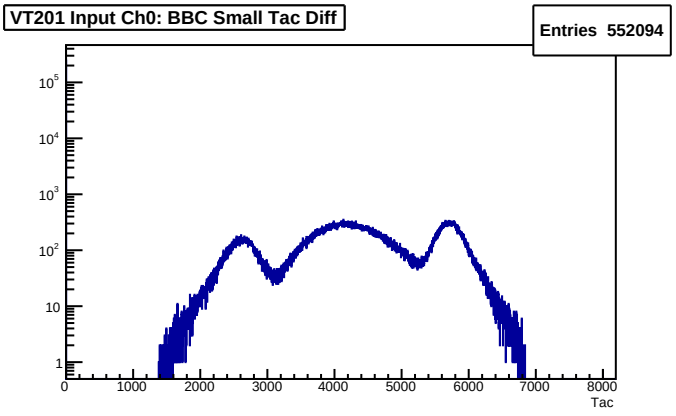

zdcEastTacVsSimu
Entries 989
Data
Simu

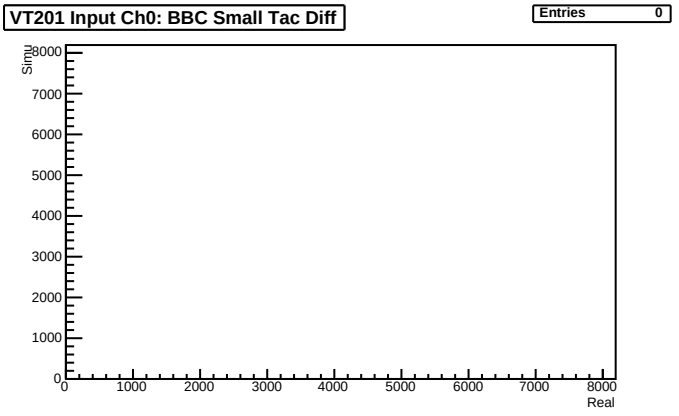

zdcWestTac
Entries 552094

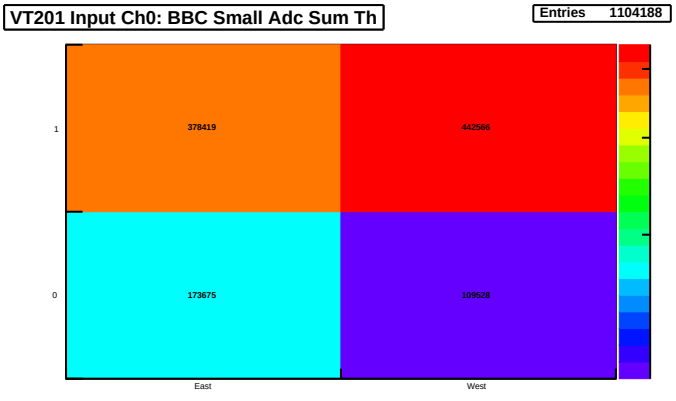

zdcWestTacVsSimu
Entries 2500
Data
Simu

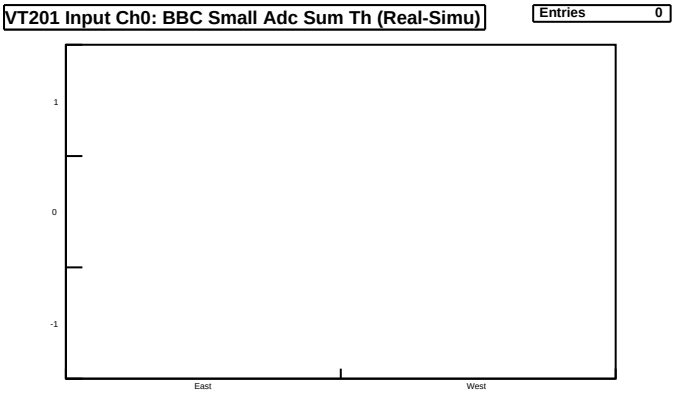

zdcAdcSum
Entries 6625128
37688
4640
24
20
10
9
123254
5581
65
56
42
38
514406
547454
552070
552074
552084
552085
428840
546513
552029
552038
552052
552066
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

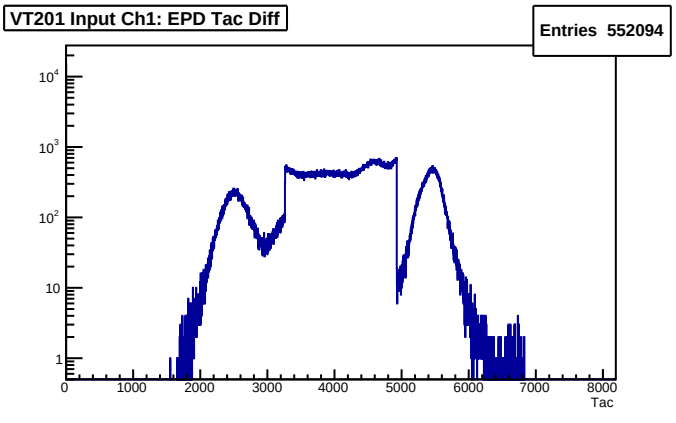

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

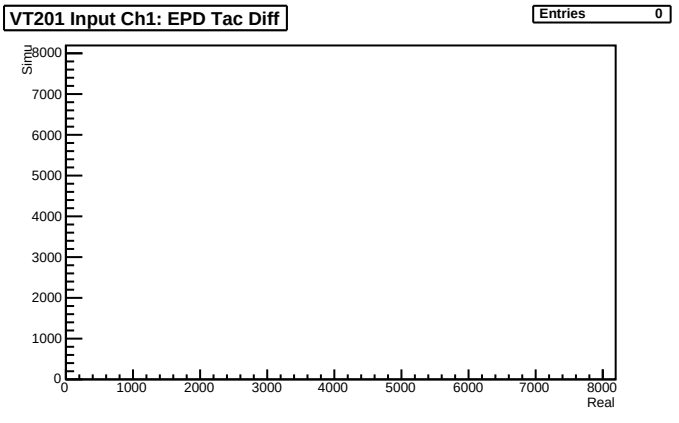

VT201 Input Ch0: BBC Small Tac Diff
Entries 552094
Tac

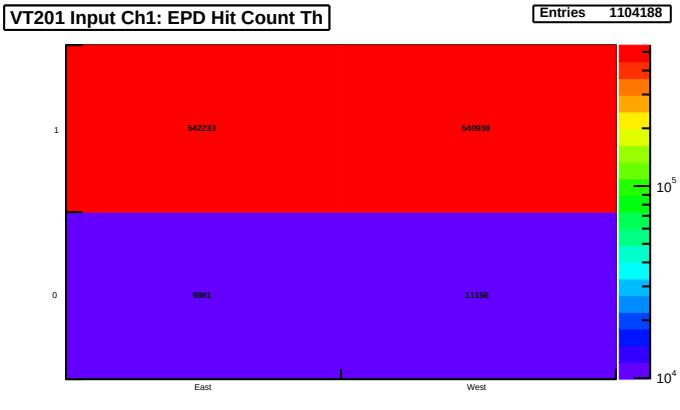

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

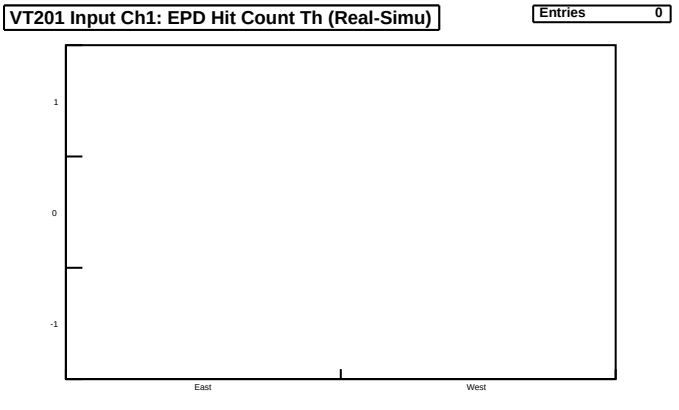

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1104188
378419
442566
173675
109528
East
West

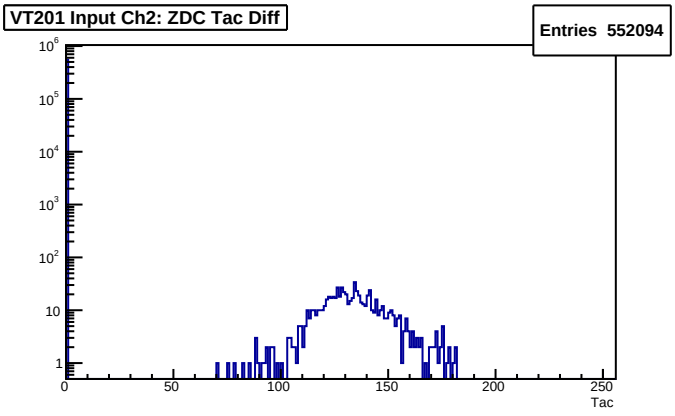

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

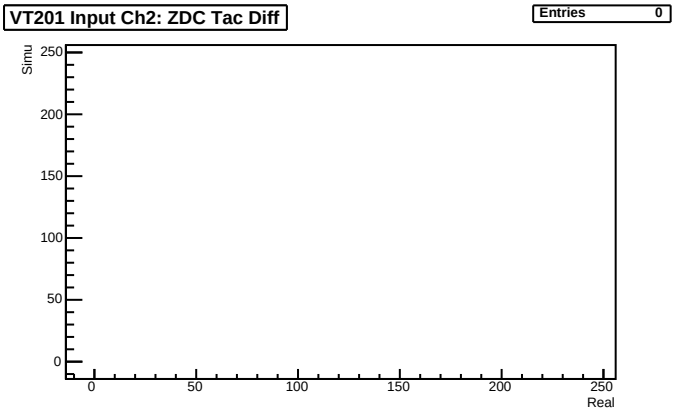

VT201 Input Ch1: EPD Tac Diff
Entries 552094
Tac

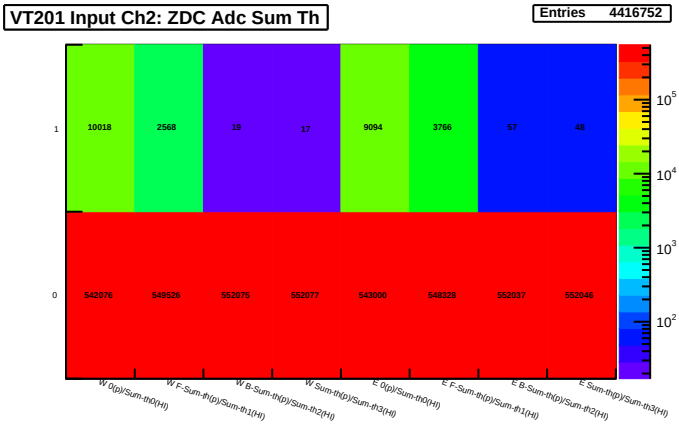

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

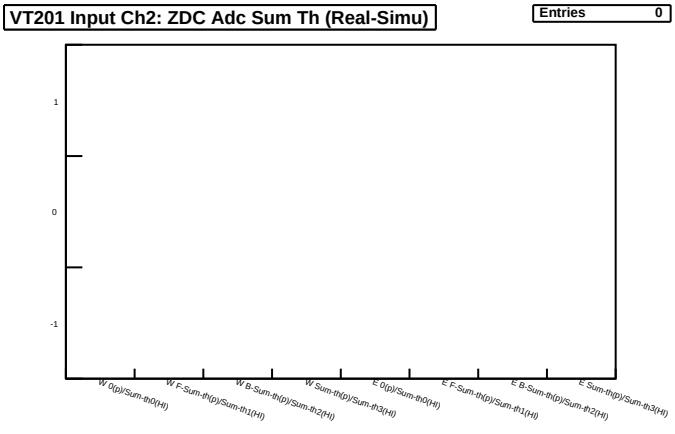

VT201 Input Ch1: EPD Hit Count Th
Entries 1104188
542233
540938
9861
11156
East
West

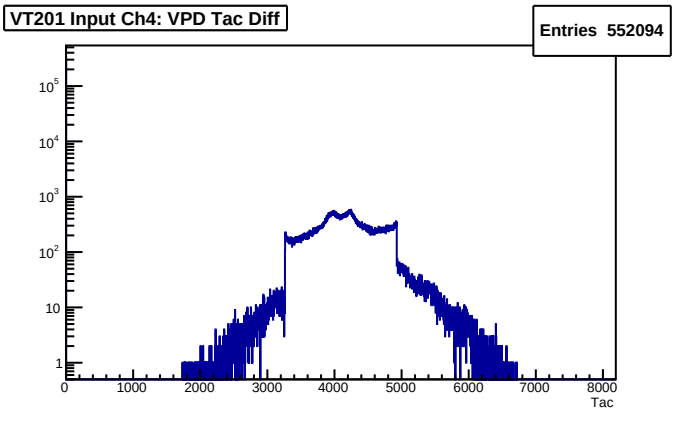

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

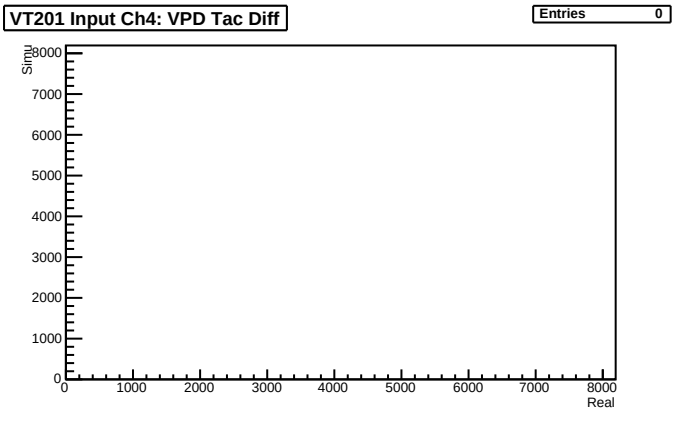

VT201 Input Ch2: ZDC Tac Diff
Entries 552094
Tac

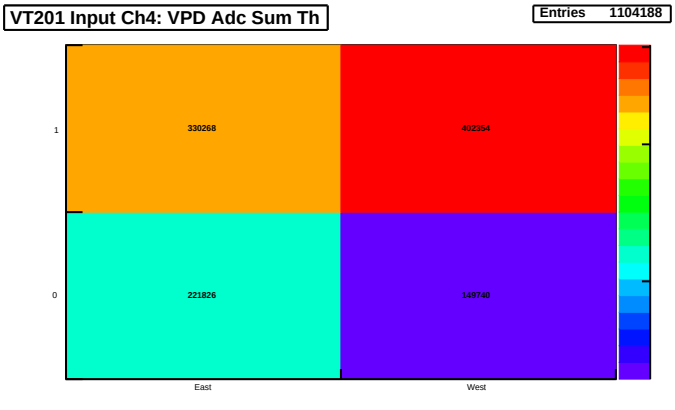

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

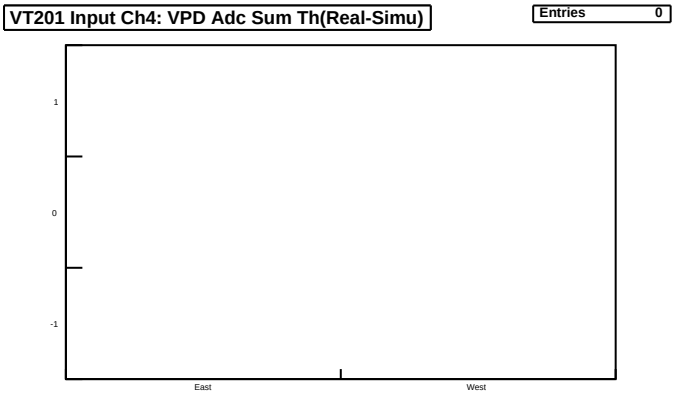

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4416752
10018
2568
19
17
9094
3766
57
48
542076
549526
552075
552077
543000
548328
552037
552046
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

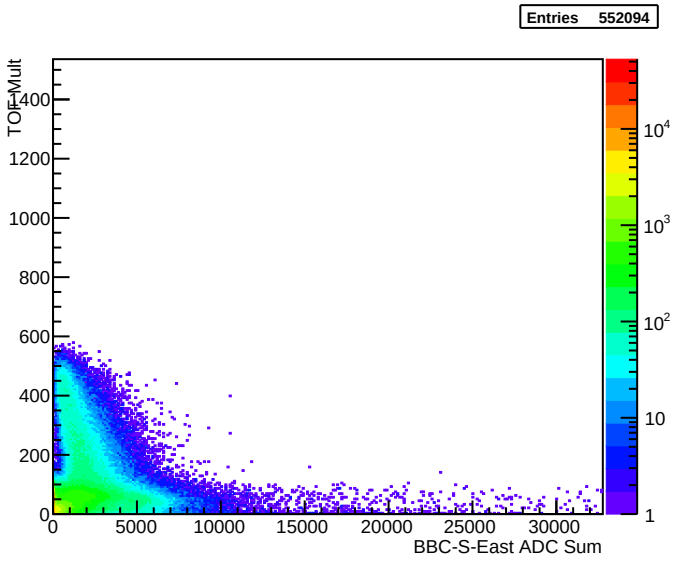

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

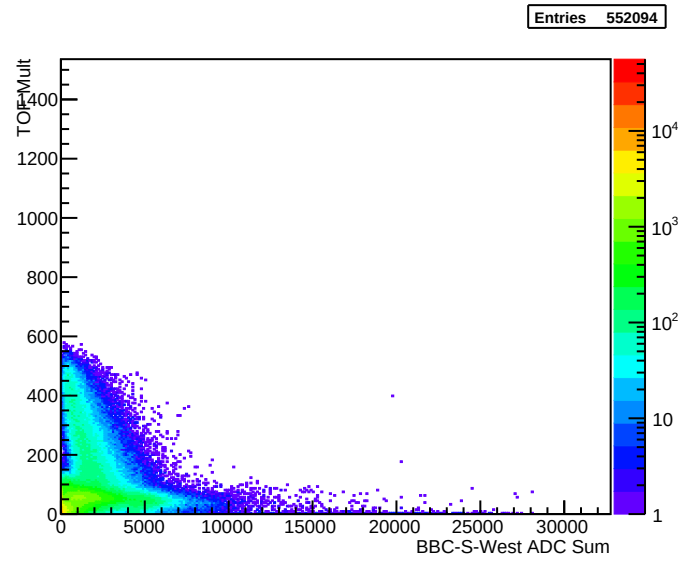

VT201 Input Ch4: VPD Tac Diff
Entries 552094
Tac

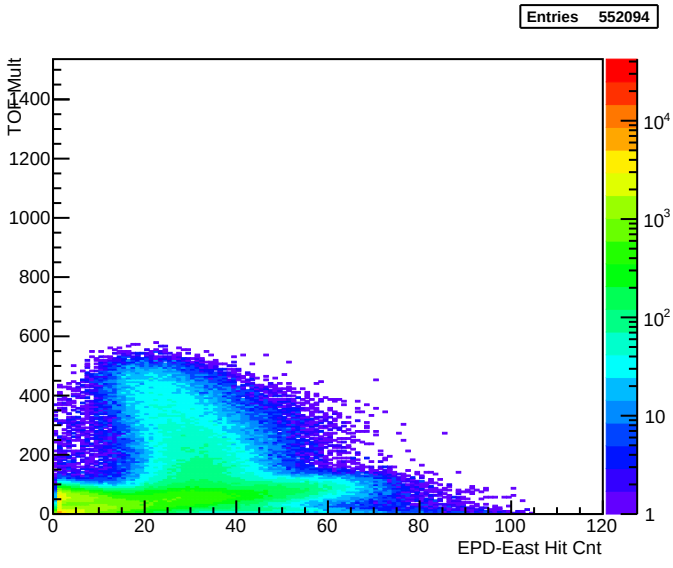

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

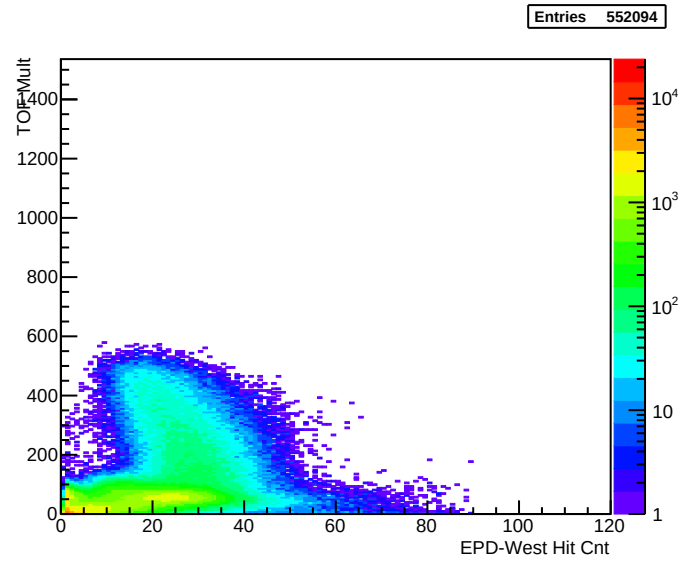

VT201 Input Ch4: VPD Adc Sum Th
Entries 1104188
330268
402354
221826
149740
East
West

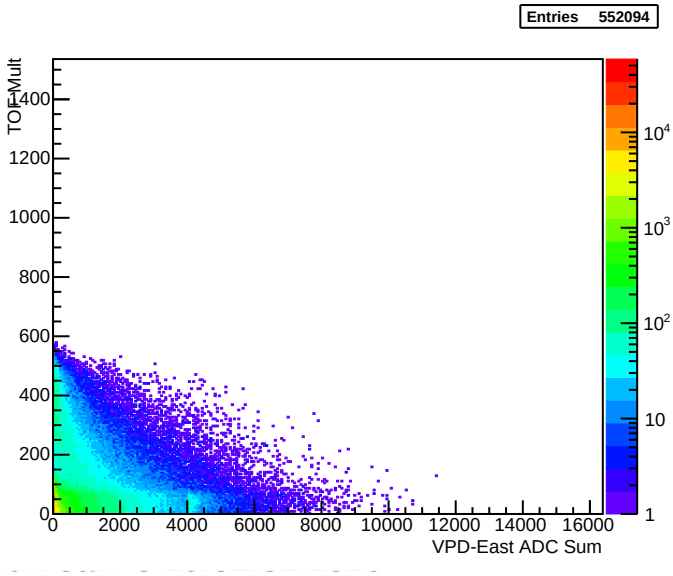

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

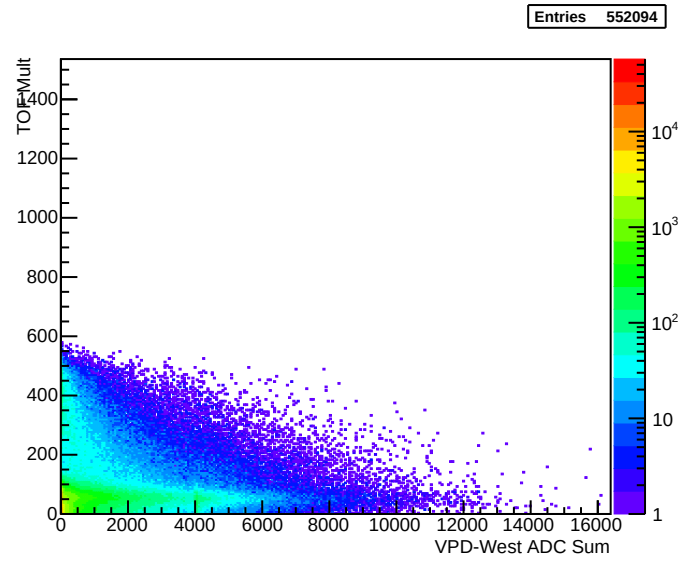

Entries 552094
TOF-Mult
BBC-S-East ADC Sum

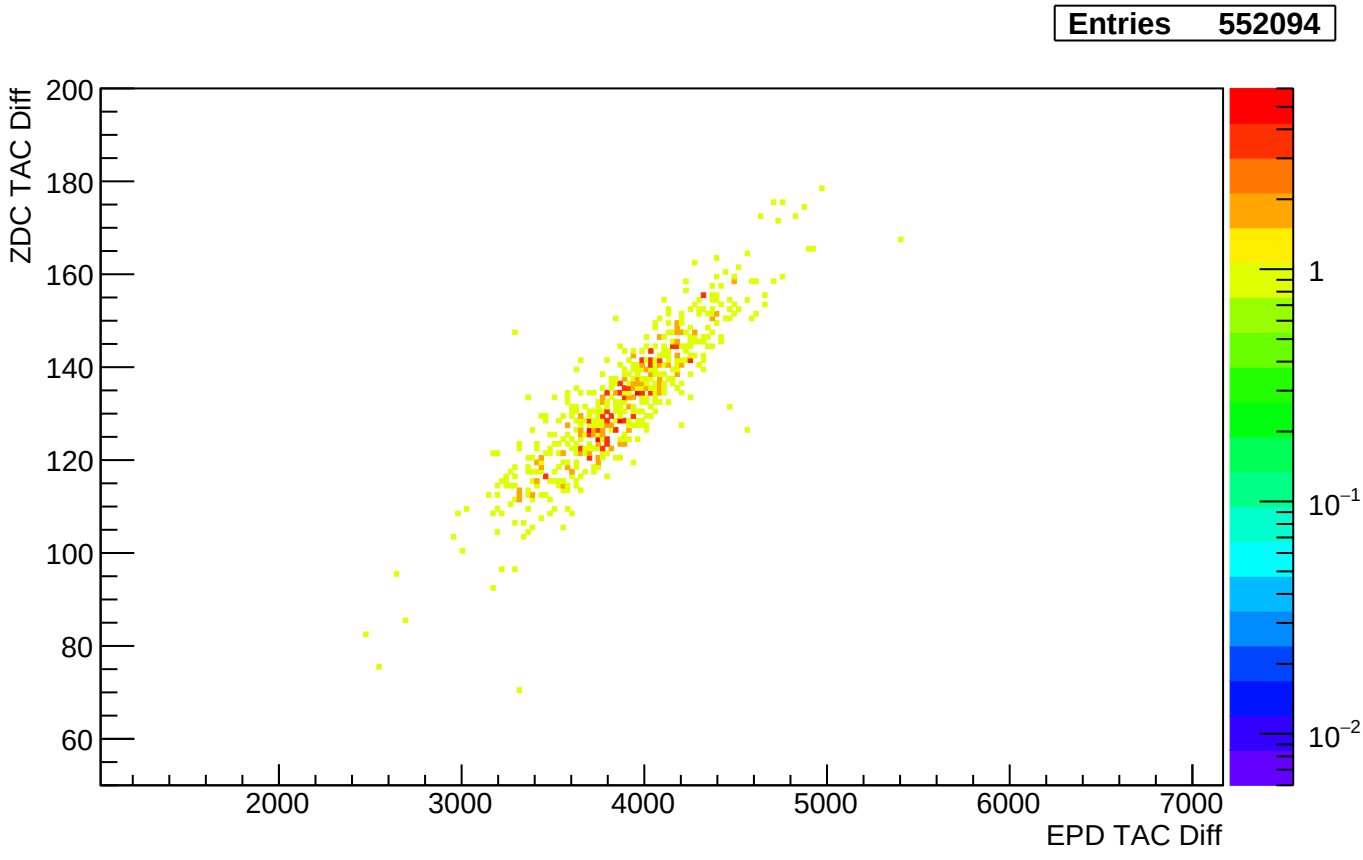

Entries 552094
TOF-Mult
BBC-S-West ADC Sum

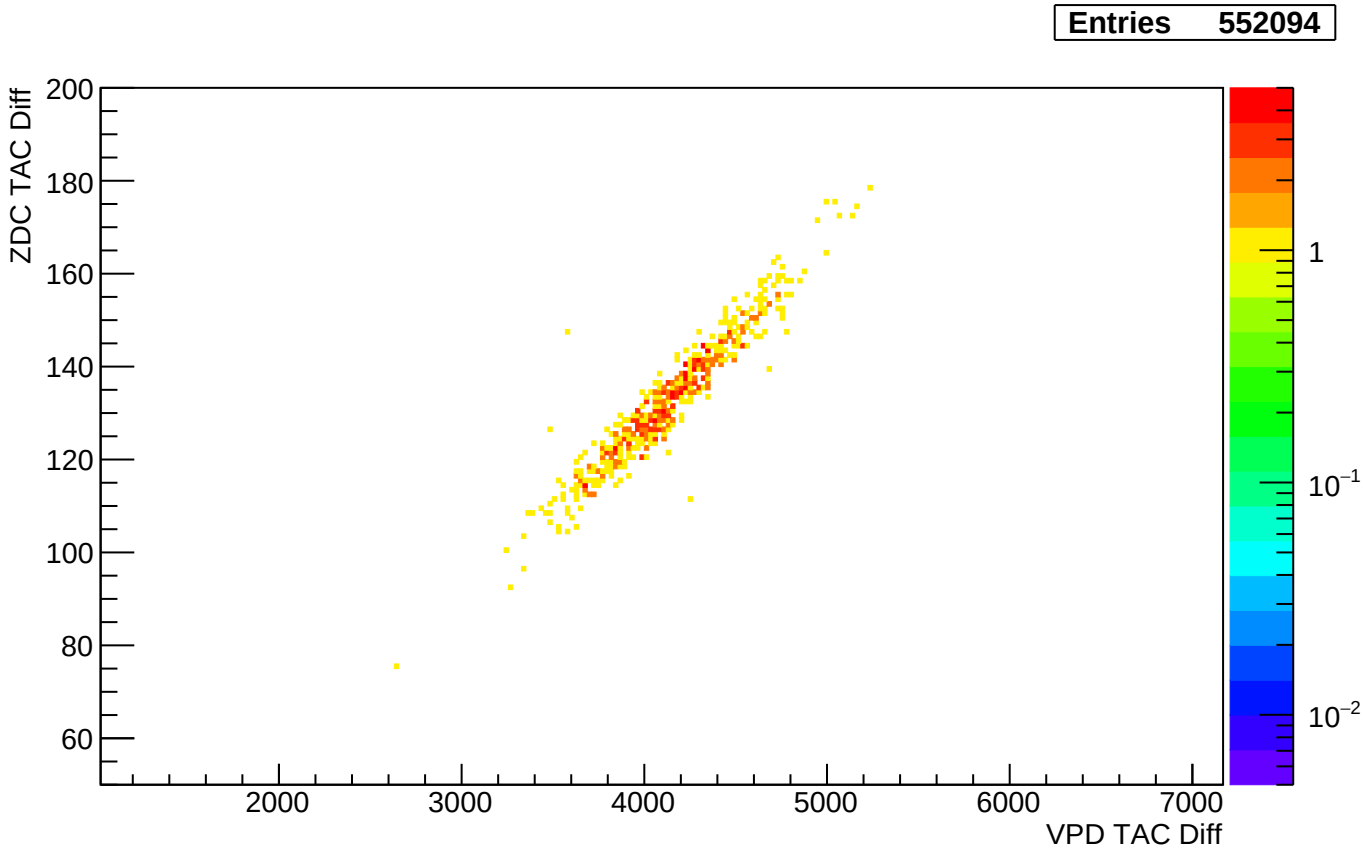

Entries 552094
TOF-Mult
EPD-East Hit Cnt

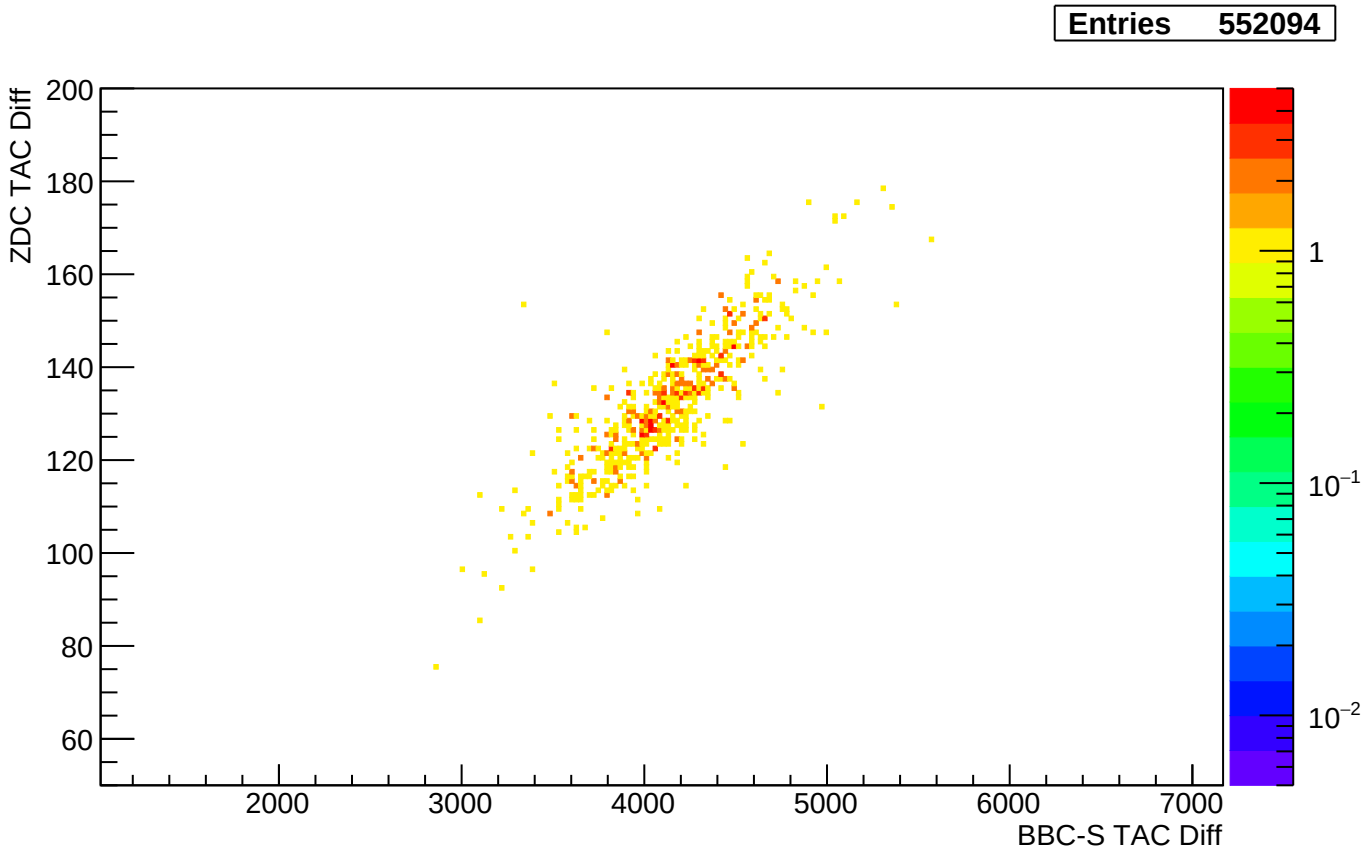

Entries 552094
TOF-Mult
EPD-West Hit Cnt

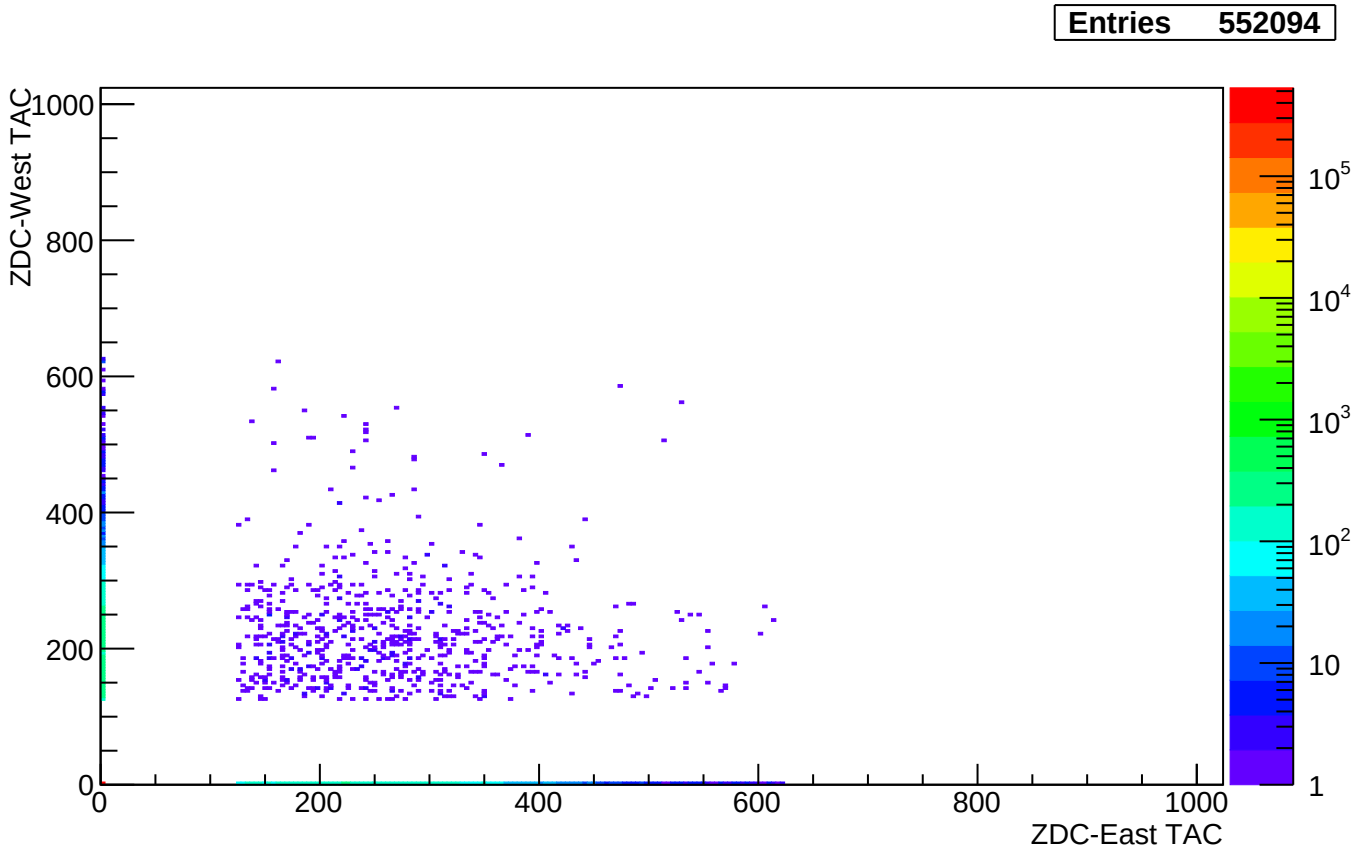

Entries 552094
TOF-Mult
VPD-East ADC Sum

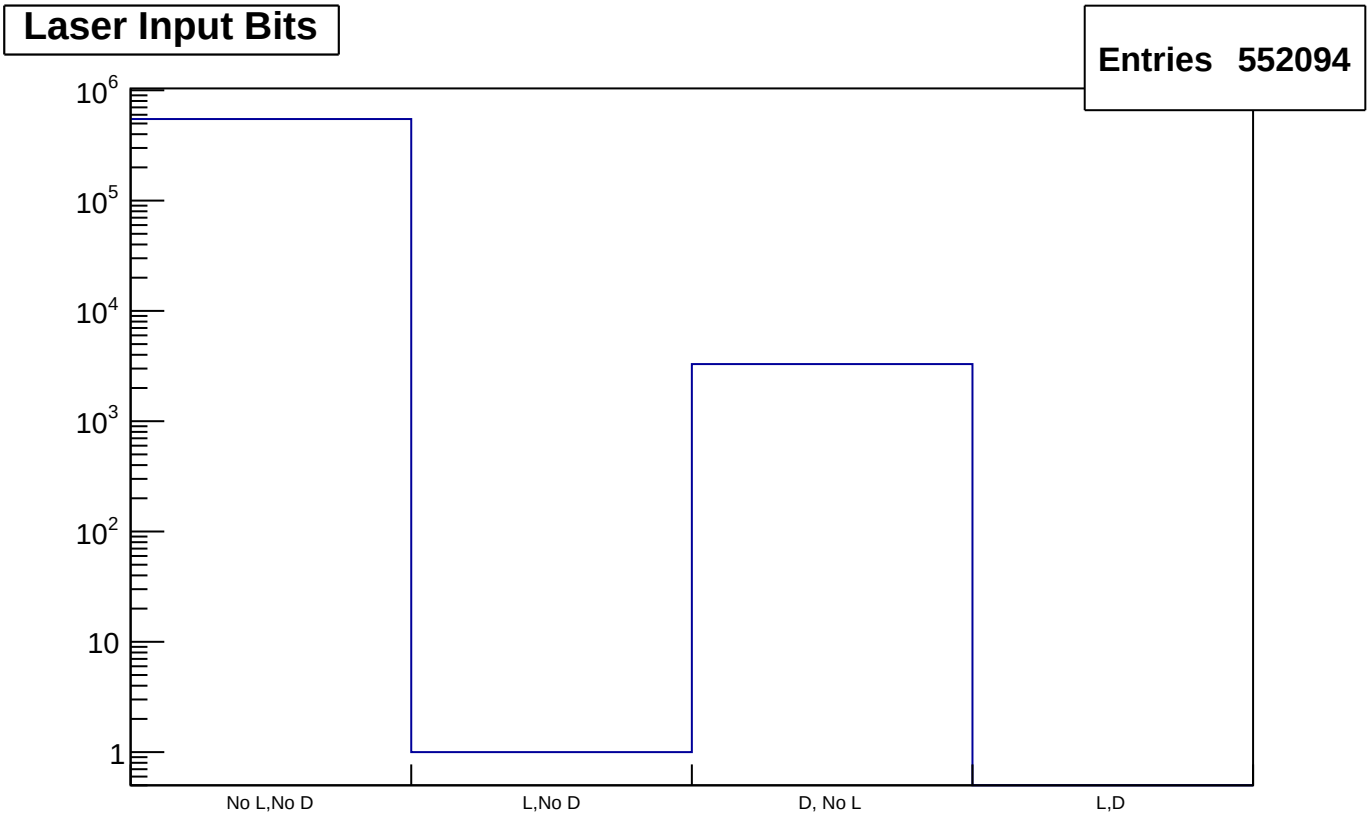

Entries 552094
TOF-Mult
VPD-West ADC Sum

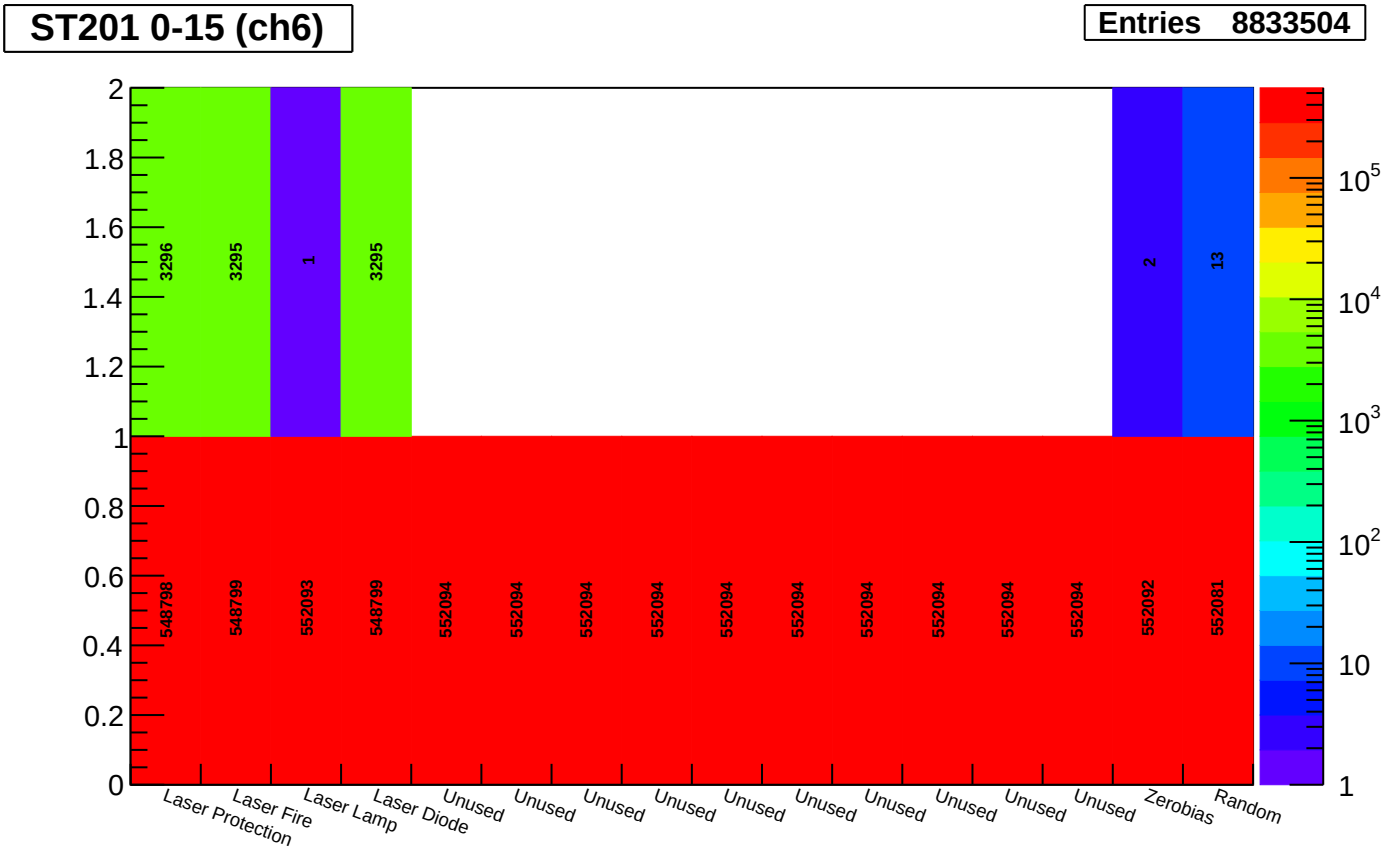

Entries 552094
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

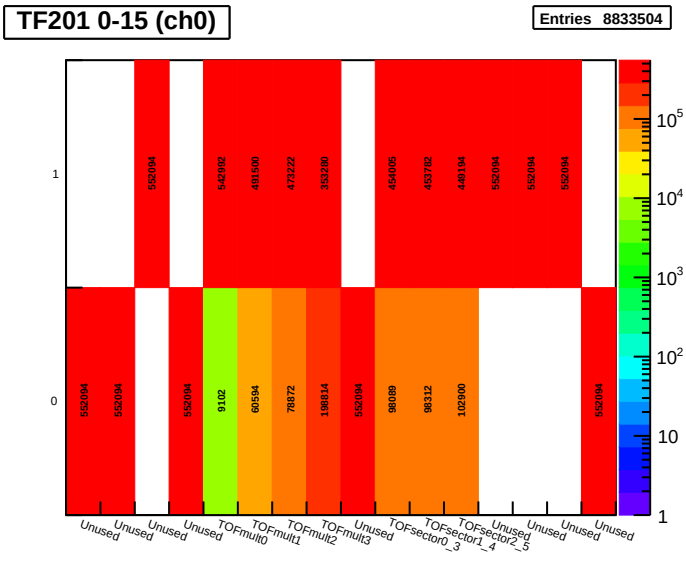

Entries 552094
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

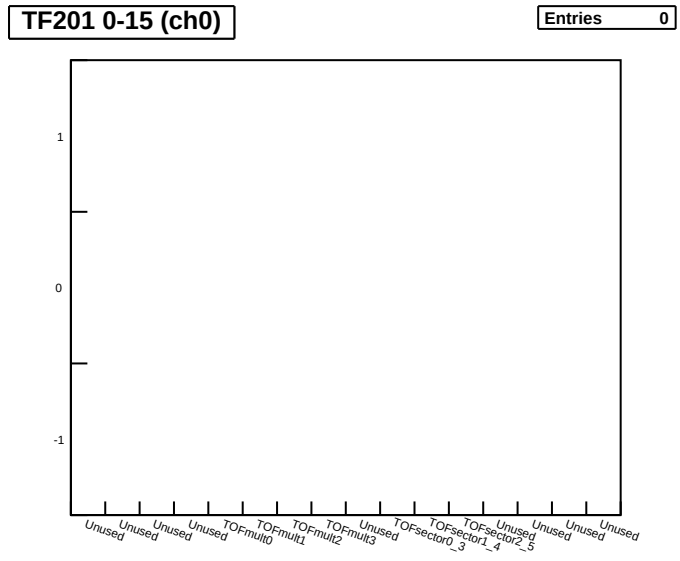

Entries 552094
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

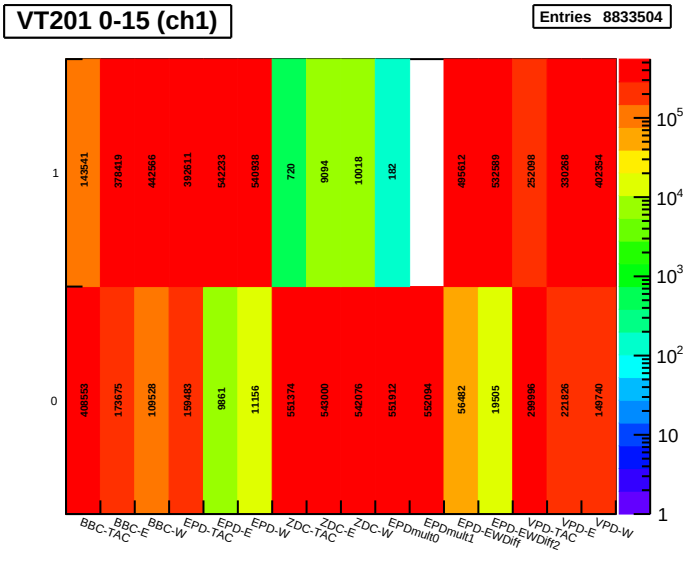

Entries 552094
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

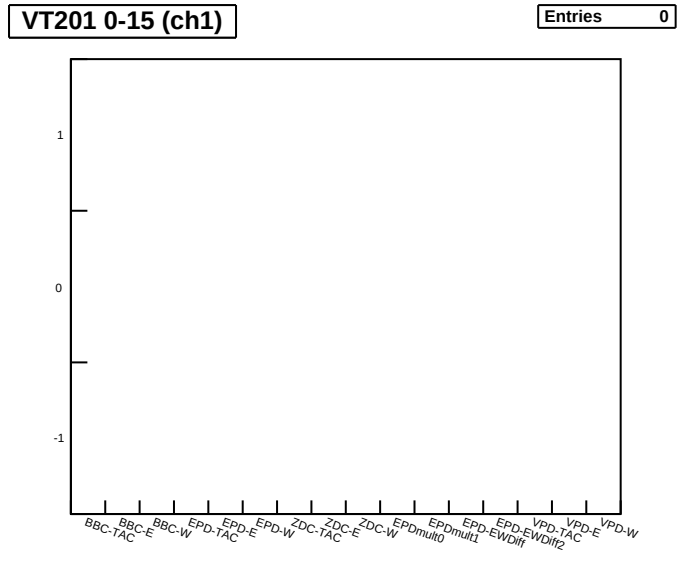

Laser Input Bits
Entries 552094
10^6
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

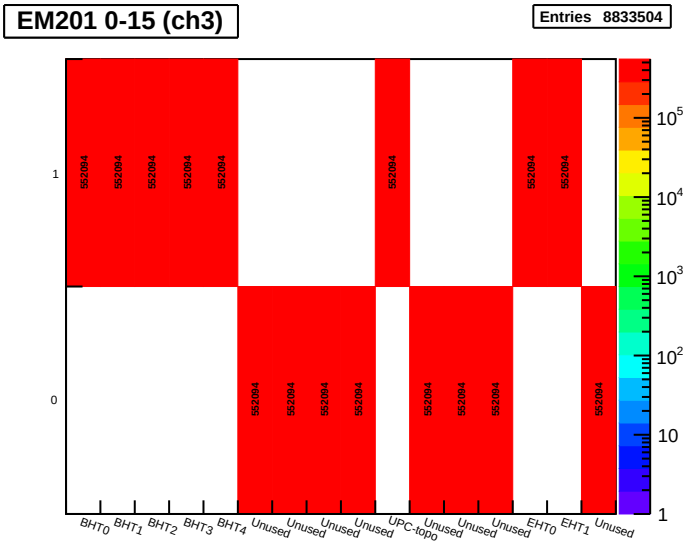

ST201 0-15 (ch6)
Entries 8833504
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3296
3295
1
3295
2
13
548798
548799
552093
548799
552094
552094
552094
552094
552094
552094
552094
552094
552094
552094
552092
552081
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

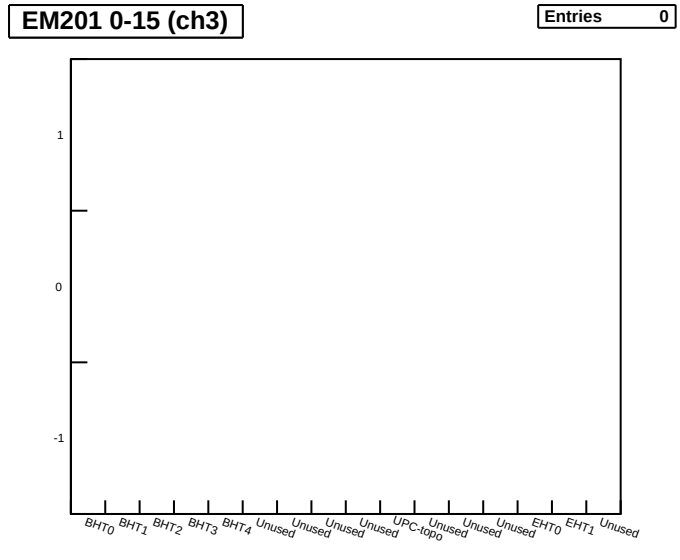

TF201 0-15 (ch0)
Entries 8833504
1
0
552094 552094 552094 542992 491500 473222 353280 454005 453782 449194 552094 552094 552094
552094 552094 552094 9102 60594 78872 198814 552094 96089 98312 102900 552094
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused
1 10 10^2 10^3 10^4 10^5


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 8833504
1
0
143541 378419 442566 392611 542233 540938 720 9094 10018 182 495612 532589 252098 330268 402354
408553 173675 109528 159483 9861 11156 561374 543000 542076 553912 552094 56482 19505 299996 221826 149740
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
1 10 10^2 10^3 10^4 10^5


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 8833504
1
0
552094 552094 552094 552094 552094 552094 552094 552094
552094 552094 552094 552094 552094 552094 552094 552094
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
1 10 10^2 10^3 10^4 10^5


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