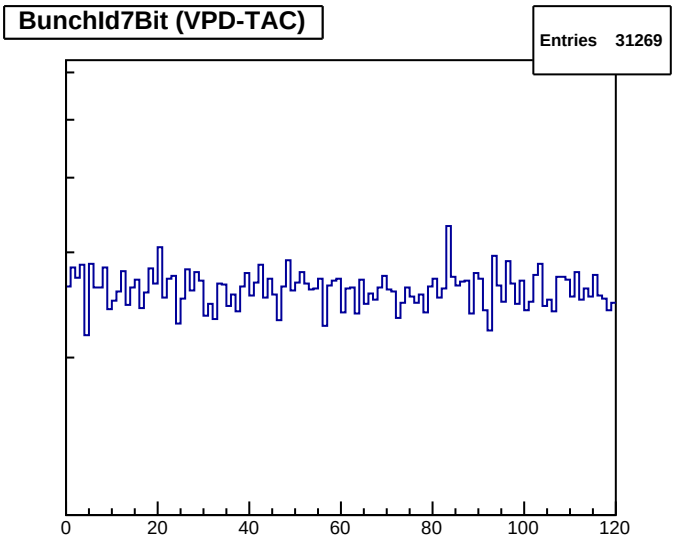
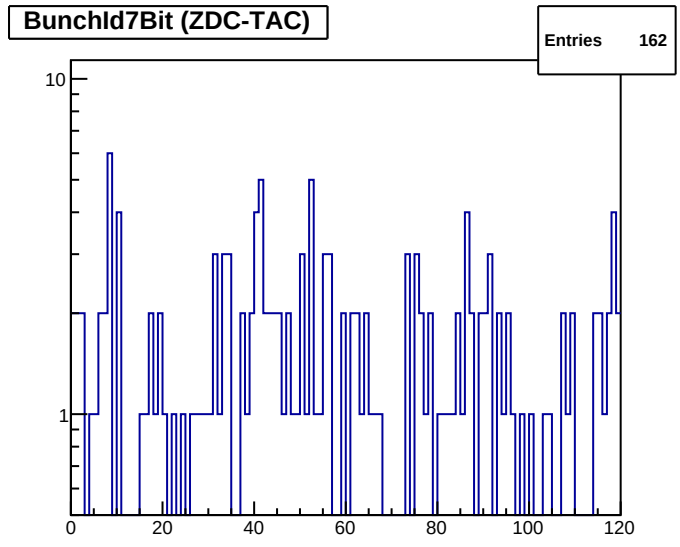
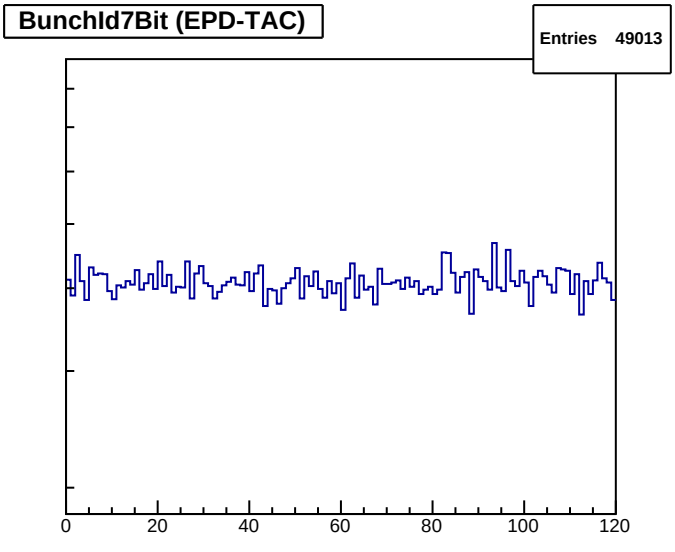
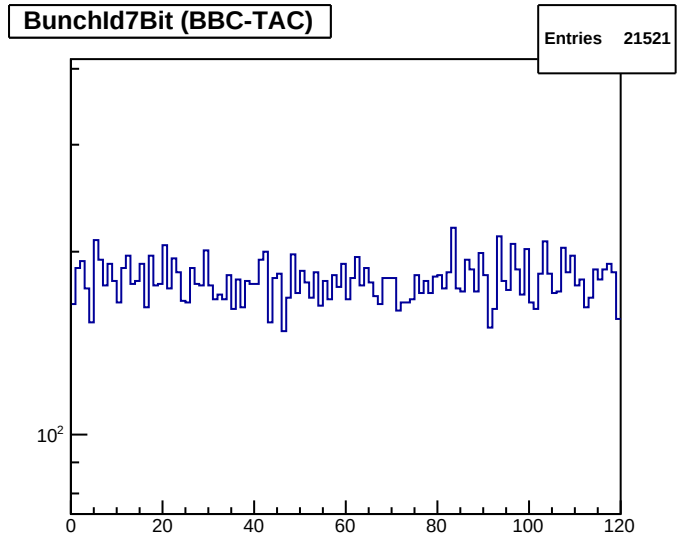
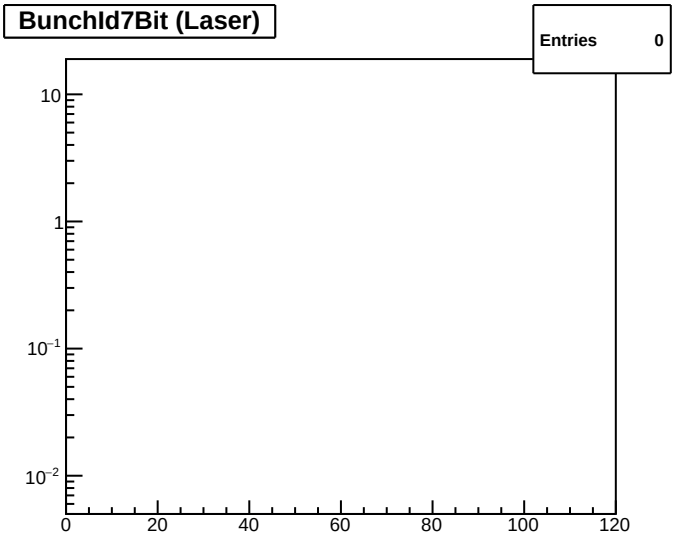
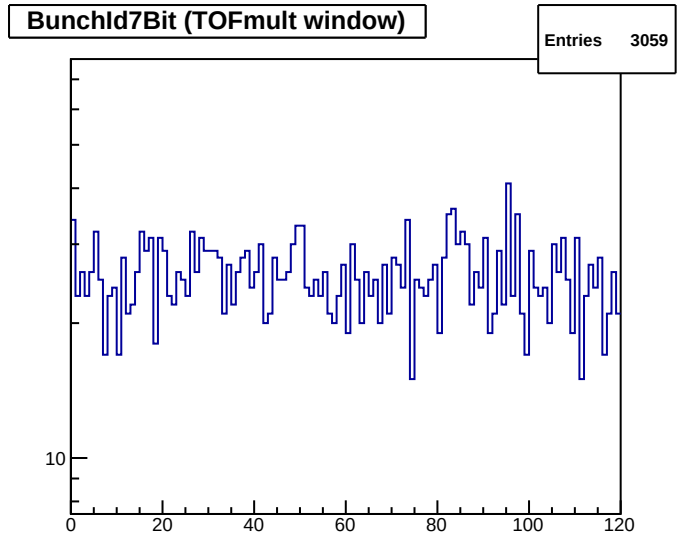

BunchId7Bit (VPD-TAC)
Entries 31269
0
20
40
60
80
100
120

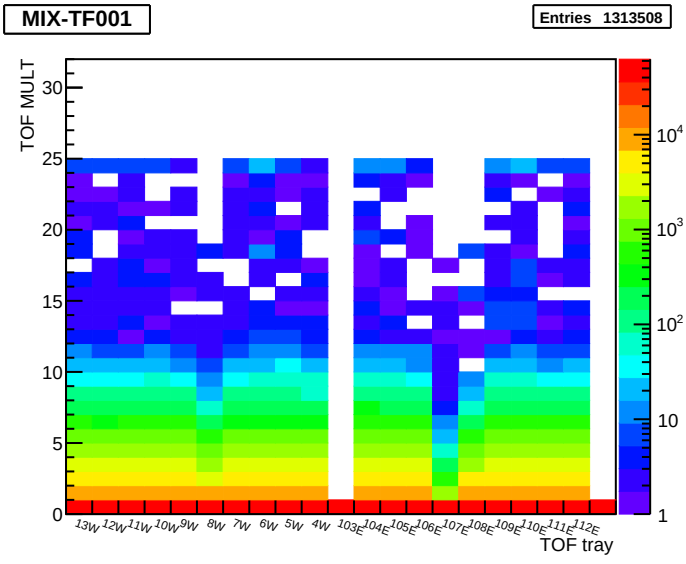

BunchId7Bit (ZDC-TAC)
Entries 162
10
1
0
20
40
60
80
100
120

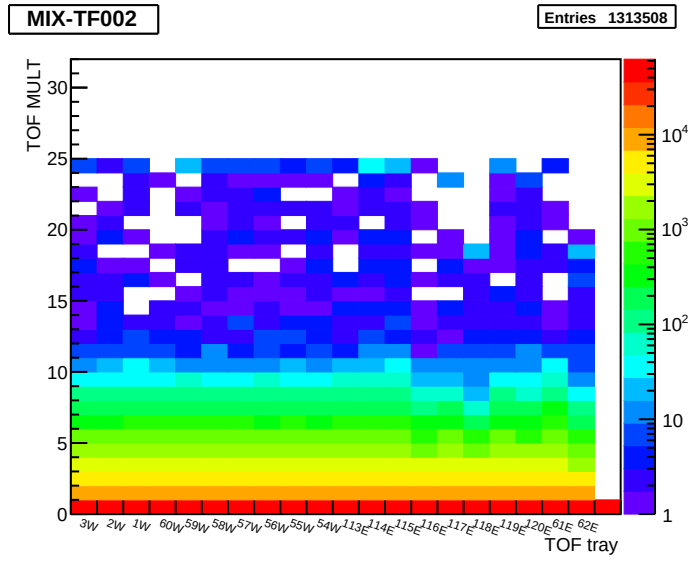

BunchId7Bit (EPD-TAC)
Entries 49013
0
20
40
60
80
100
120

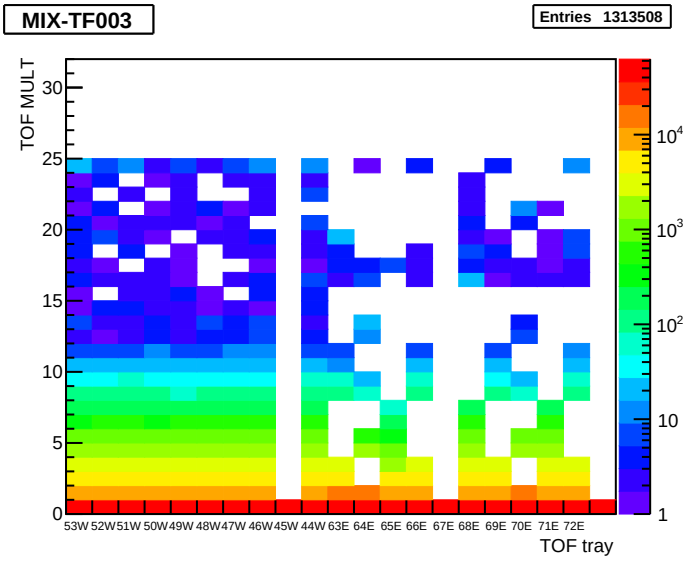

BunchId7Bit (BBC-TAC)
Entries 21521
10^2
0
20
40
60
80
100
120

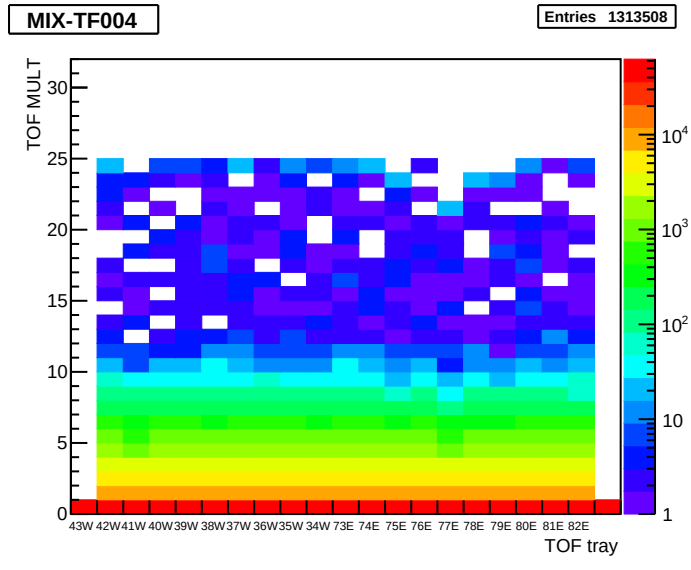

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

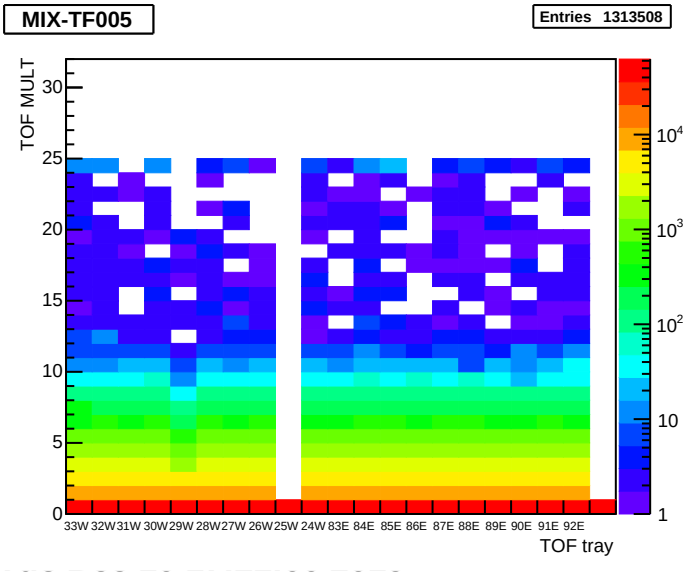

BunchId7Bit (TOFmult window)
Entries 3059
10
0
20
40
60
80
100
120

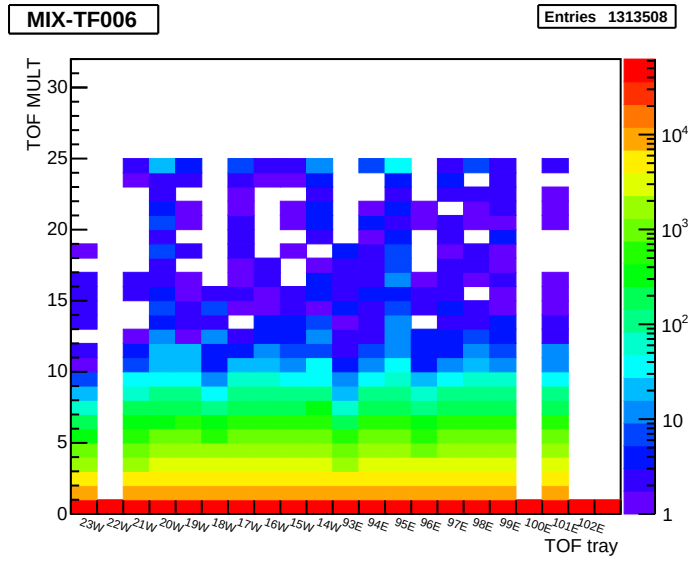

MIX-TF001
Entries 1313508
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

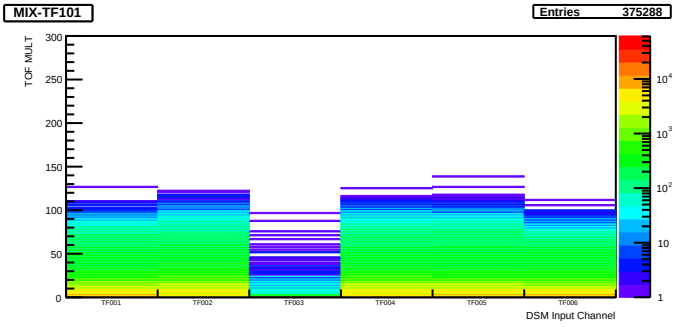

MIX-TF002
Entries 1313508
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

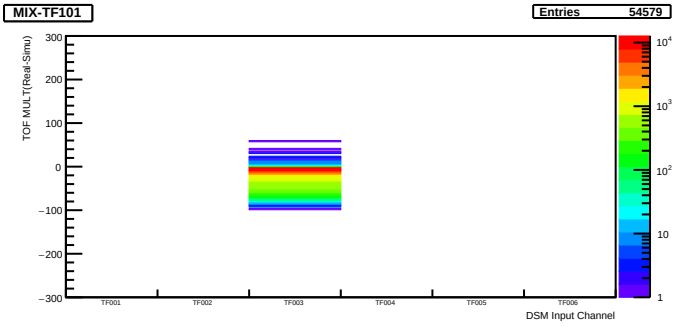

MIX-TF003
Entries 1313508
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

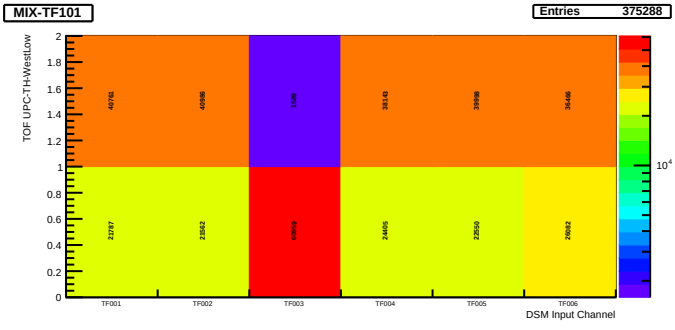

MIX-TF004
Entries 1313508
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

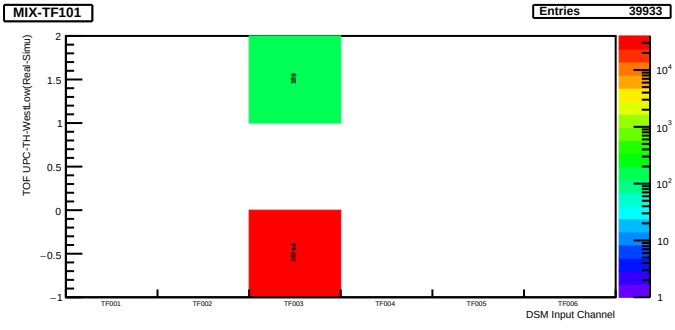

MIX-TF005
Entries 1313508
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

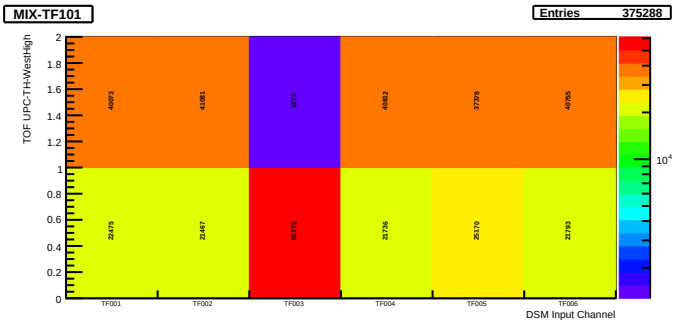

MIX-TF006
Entries 1313508
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

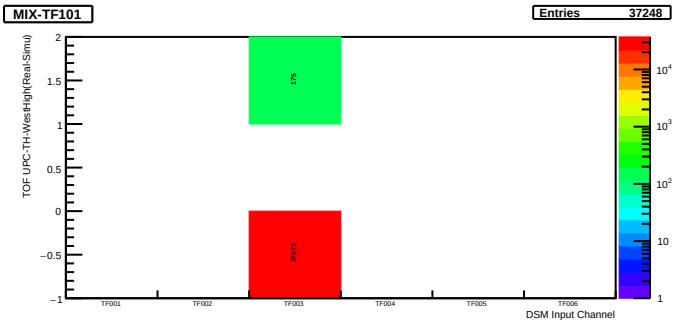

MIX-TF101
Entries 375288
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

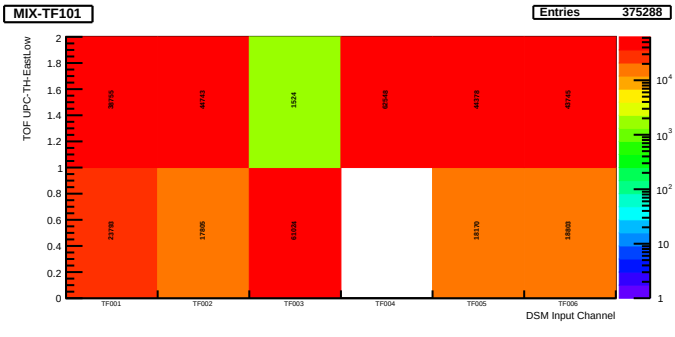

MIX-TF101
Entries 54579
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

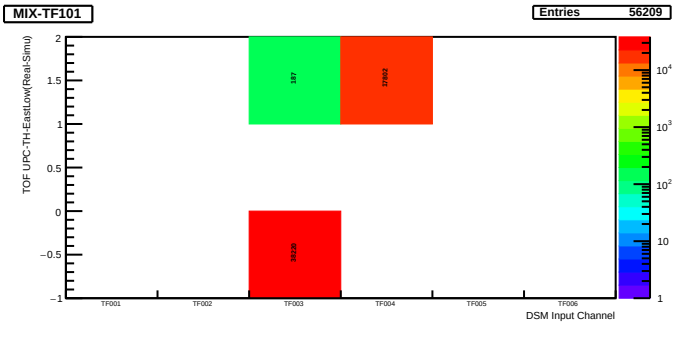

MIX-TF101
Entries 375288
TOF UPC-TH-WestLow
40781
40986
1539
38143
39998
36446
22787
22842
68959
24405
22850
20842
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

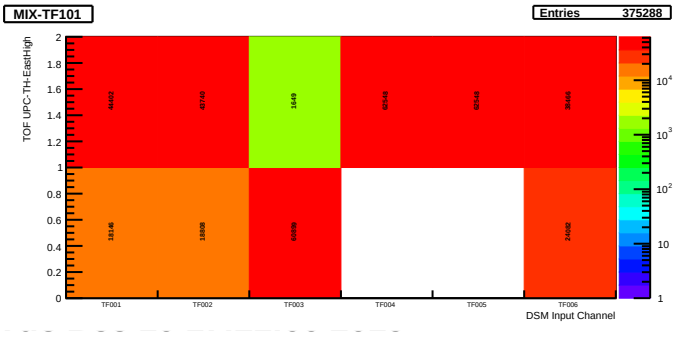

MIX-TF101
Entries 39933
TOF UPC-TH-WestLow(Real-Simu)
389
39544
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

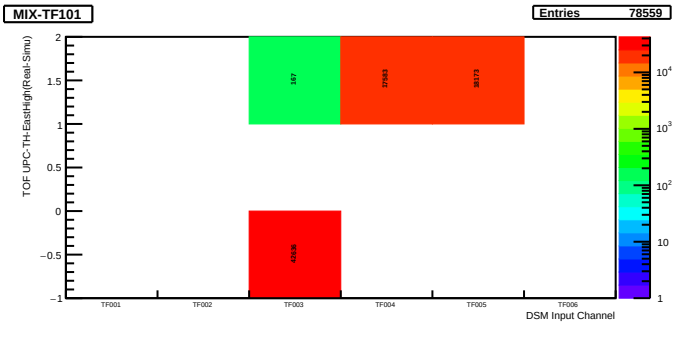

MIX-TF101
Entries 375288
TOF UPC-TH-WestHigh
40073
41181
3273
40862
37278
40765
22475
22467
61275
22756
22170
22793
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

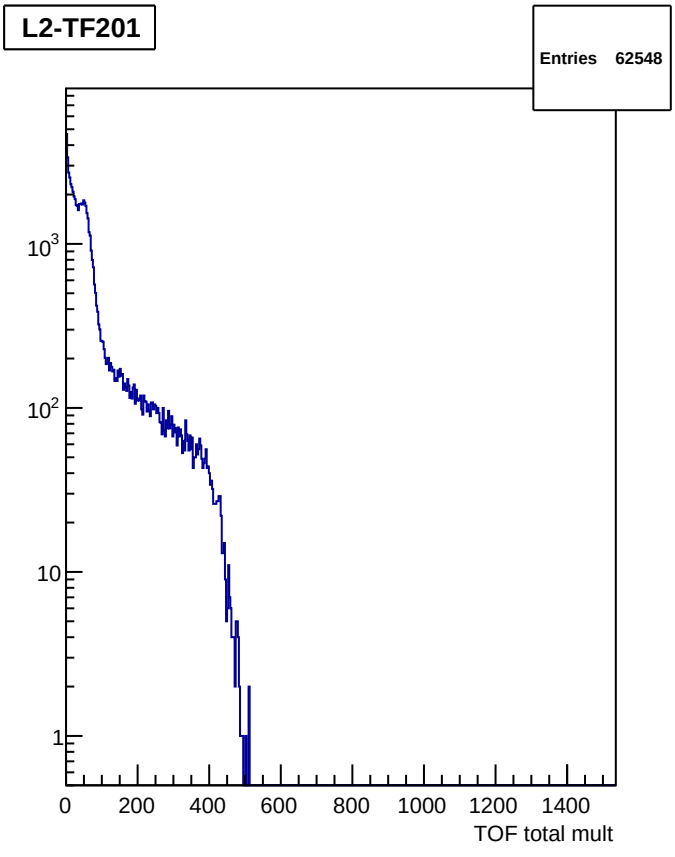

MIX-TF101
Entries 37248
TOF UPC-TH-WestHigh(Real-Simu)
175
37073
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

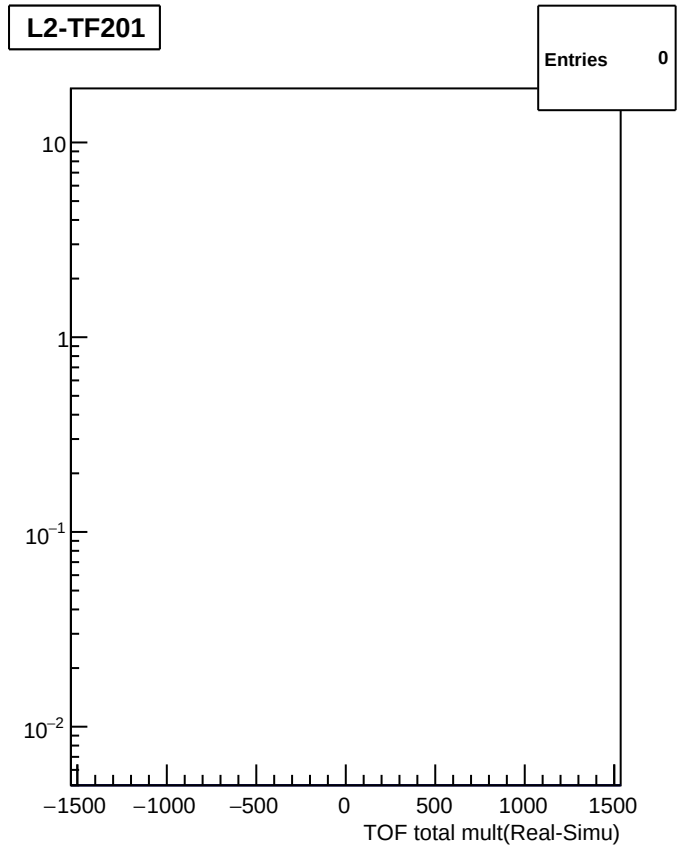

MIX-TF101
Entries 375288
TOF UPC-TH-EastLow
36755
44743
1524
62548
44378
43745
22788
17805
61534
18170
18803
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

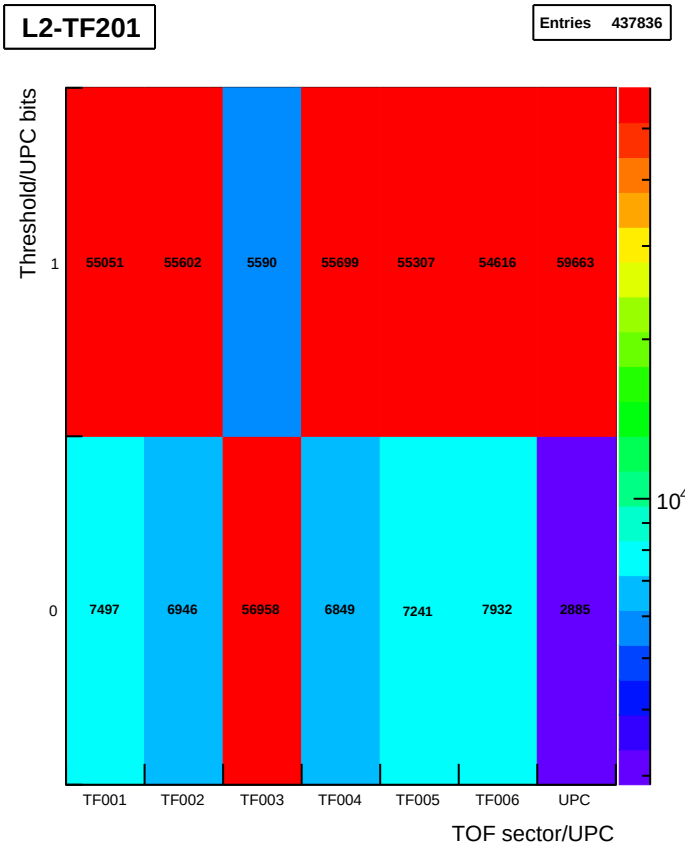

MIX-TF101
Entries 56209
TOF UPC-TH-EastLow(Real-Simu)
187
27602
38220
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

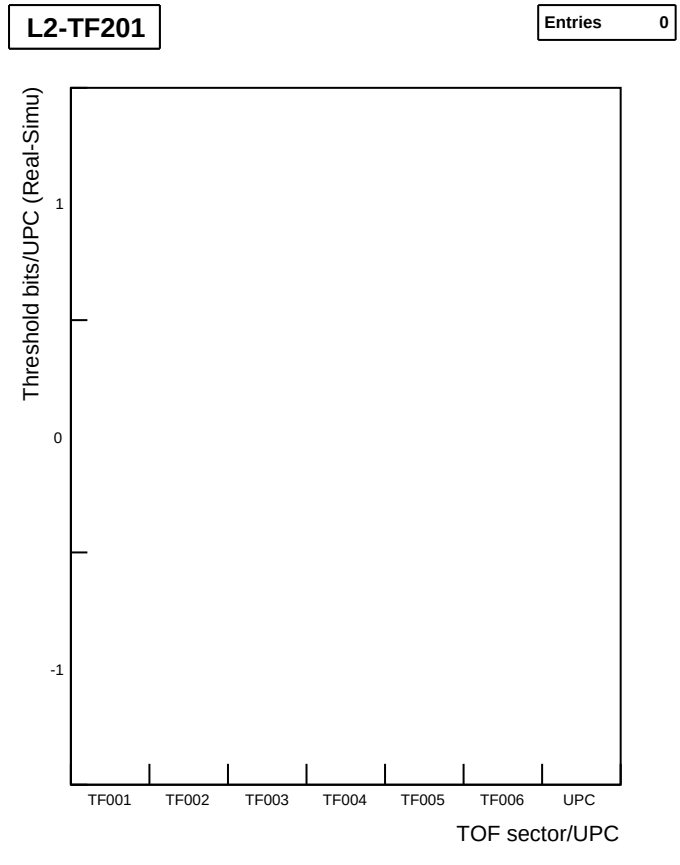

MIX-TF101
Entries 375288
TOF UPC-TH-EastHigh
44422
43740
1649
62548
62548
38466
18146
18808
66089
24082
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

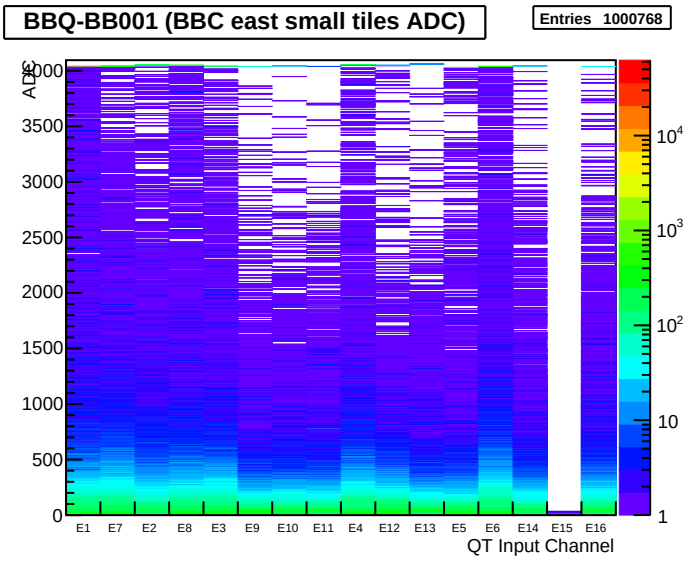

MIX-TF101
Entries 78559
TOF UPC-TH-EastHigh(Real-Simu)
187
27583
38173
42538
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

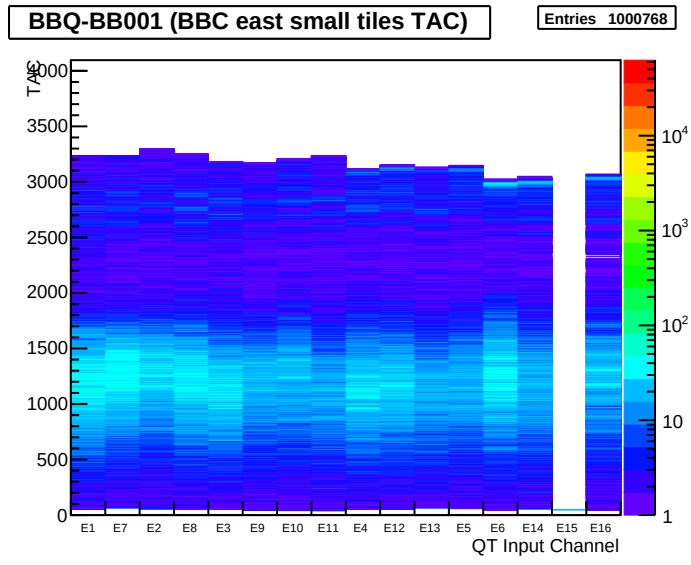

L2-TF201
Entries 62548
TOF total mult

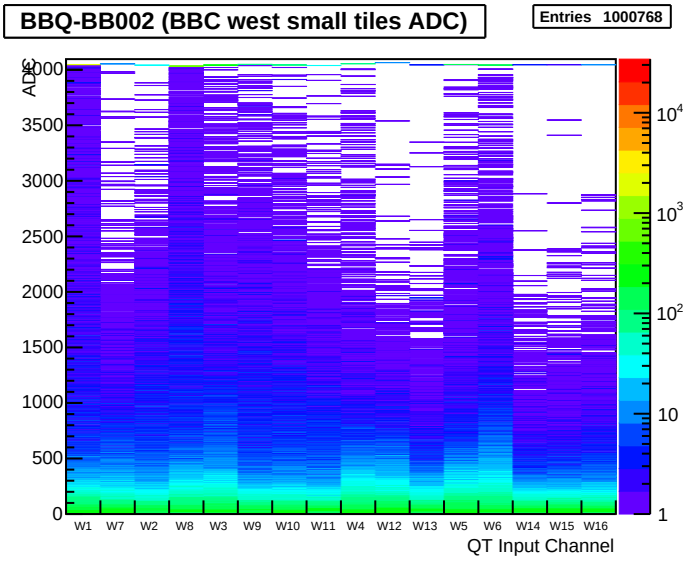

L2-TF201
Entries 0
TOF total mult(Real-Simu)

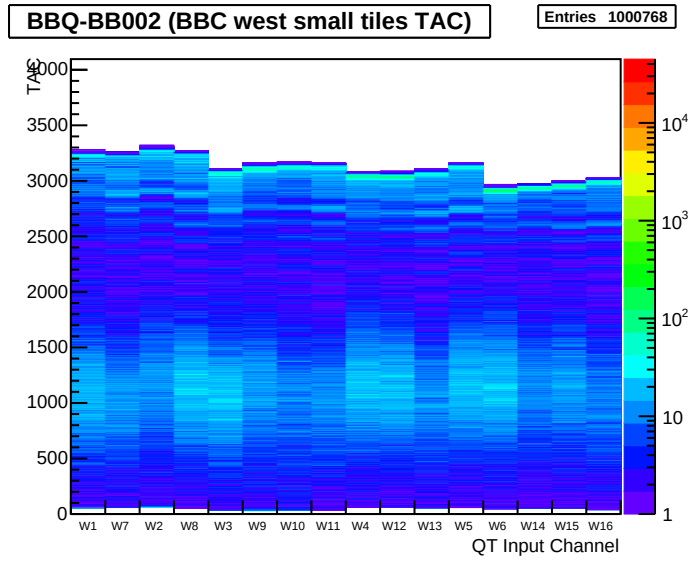

L2-TF201
Entries 437836
Threshold/UPC bits
55051
55602
5590
55699
55307
54616
59663
7497
6946
56958
6849
7241
7932
2885
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

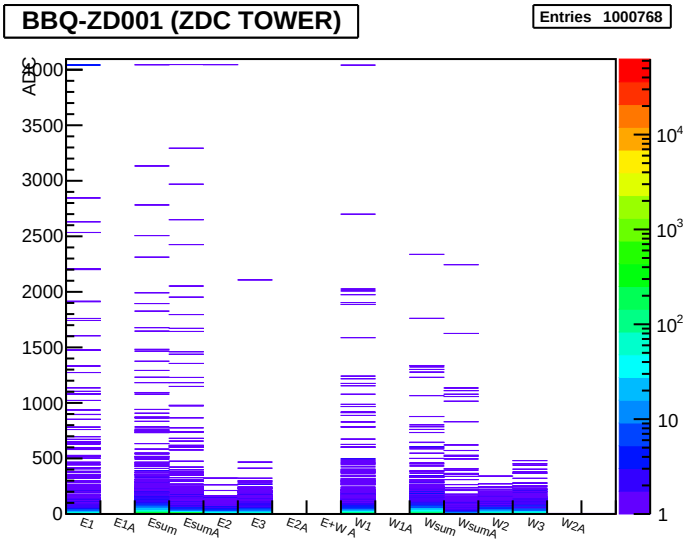

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

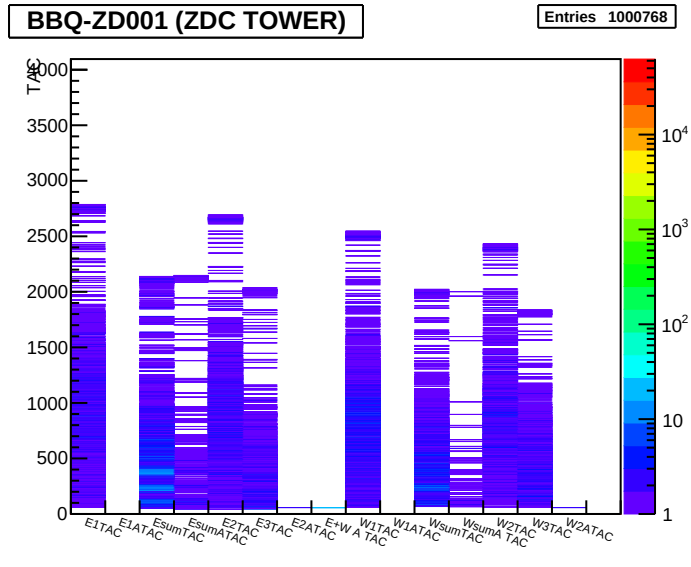

BBQ-BB001 (BBC east small tiles ADC)
Entries 1000768
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

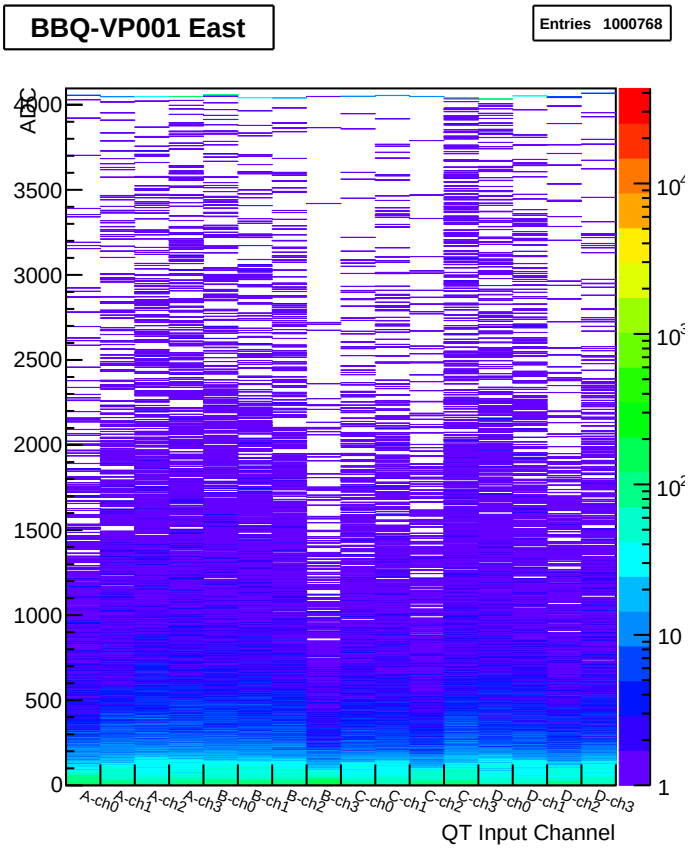

BBQ-BB001 (BBC east small tiles TAC)
Entries 1000768
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

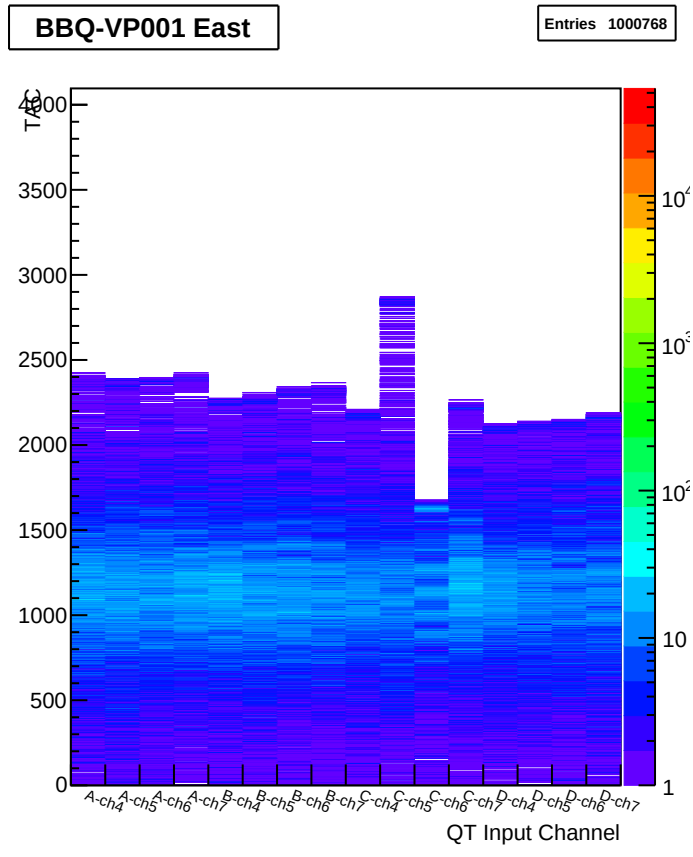

BBQ-BB002 (BBC west small tiles ADC)
Entries 1000768
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

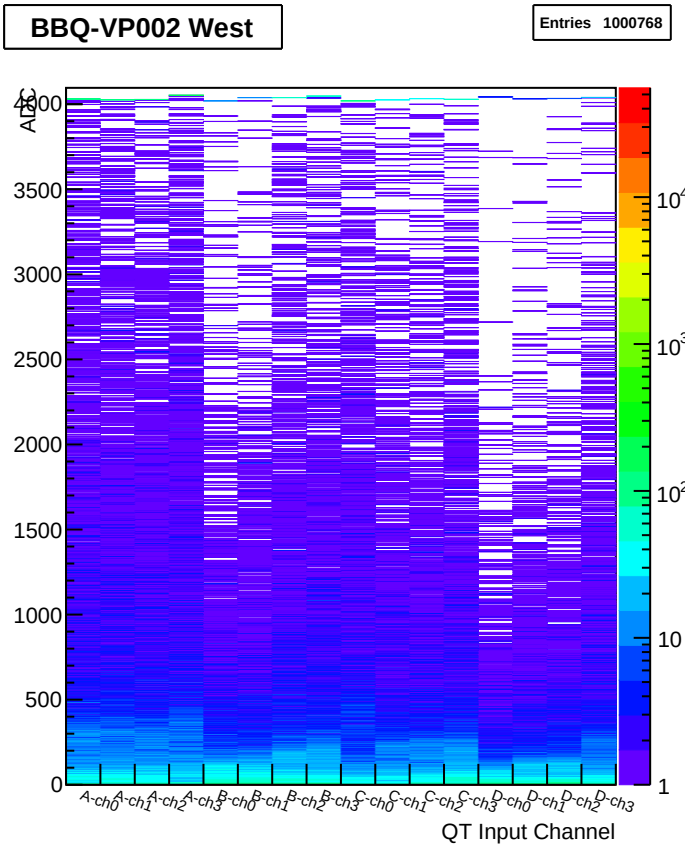

BBQ-BB002 (BBC west small tiles TAC)
Entries 1000768
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

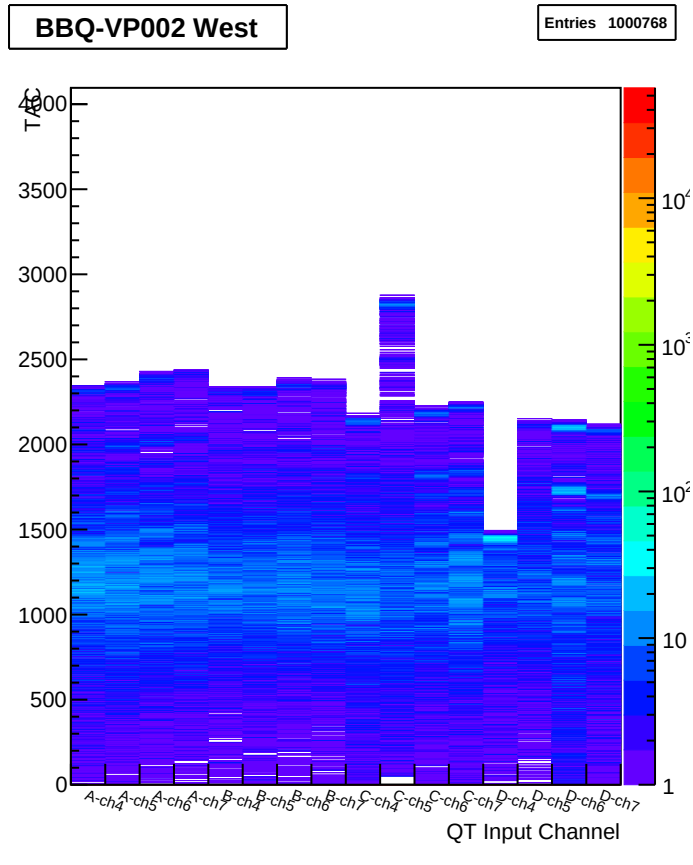

BBQ-ZD001 (ZDC TOWER)
Entries 1000768
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

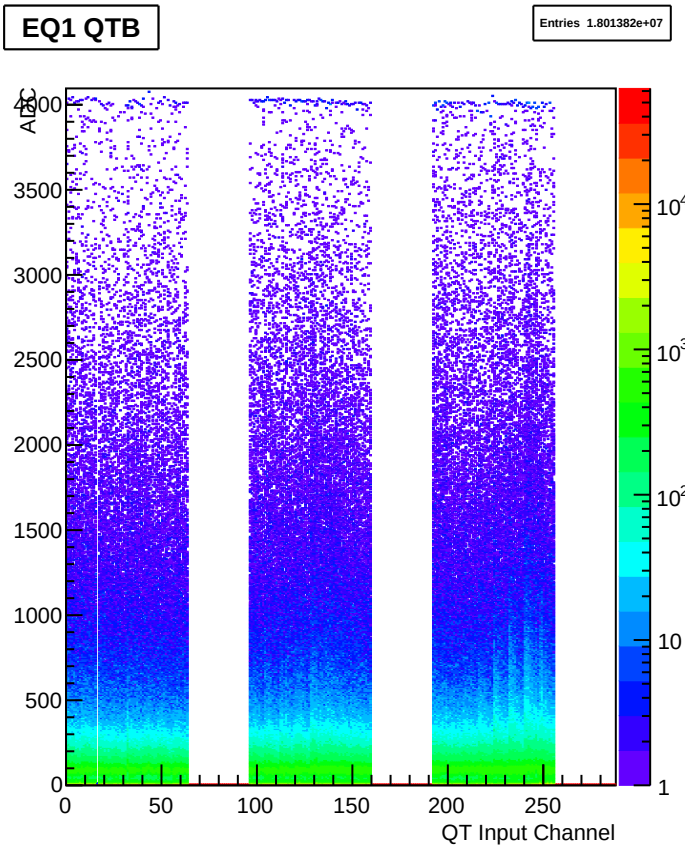

BBQ-ZD001 (ZDC TOWER)
Entries 1000768
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

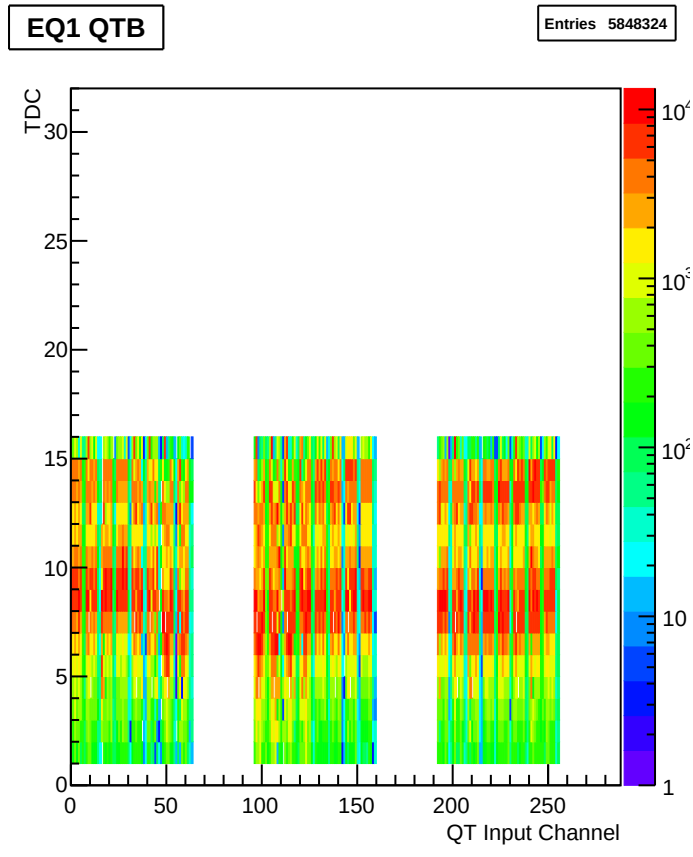

BBQ-VP001 East
Entries 1000768
ADC
QT Input Channel

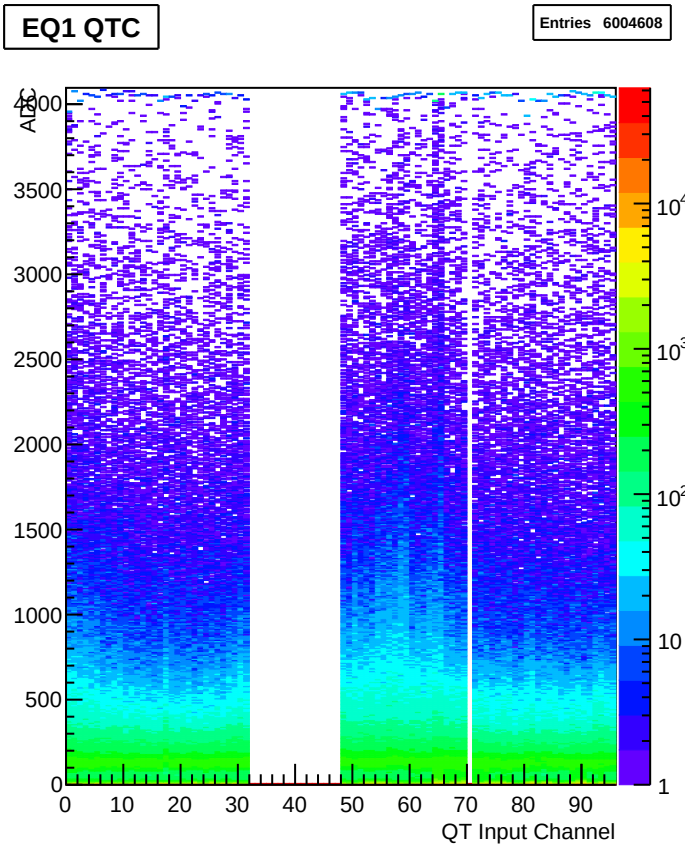

BBQ-VP001 East
Entries 1000768
TAC
QT Input Channel

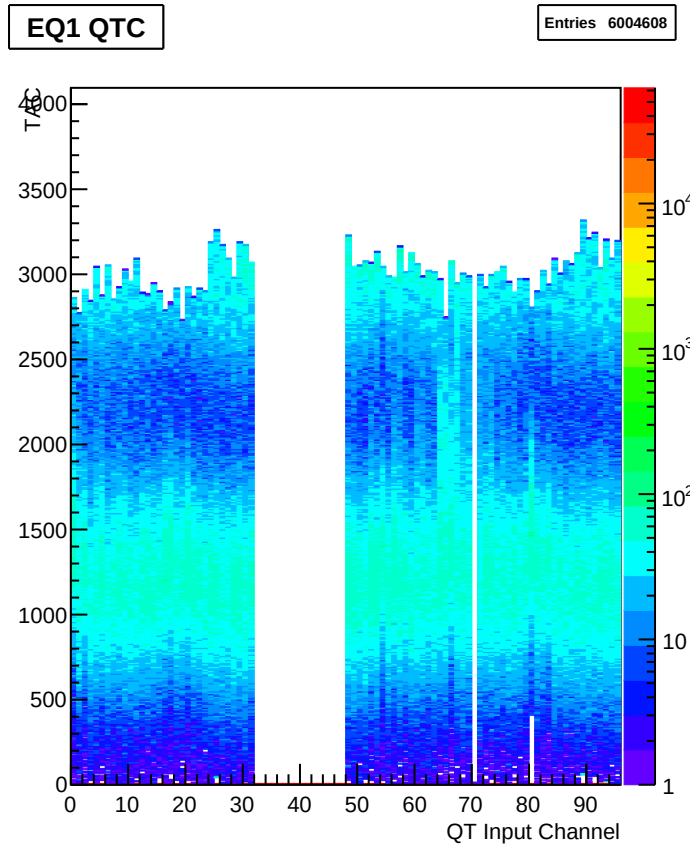

BBQ-VP002 West
Entries 1000768
ADC
QT Input Channel

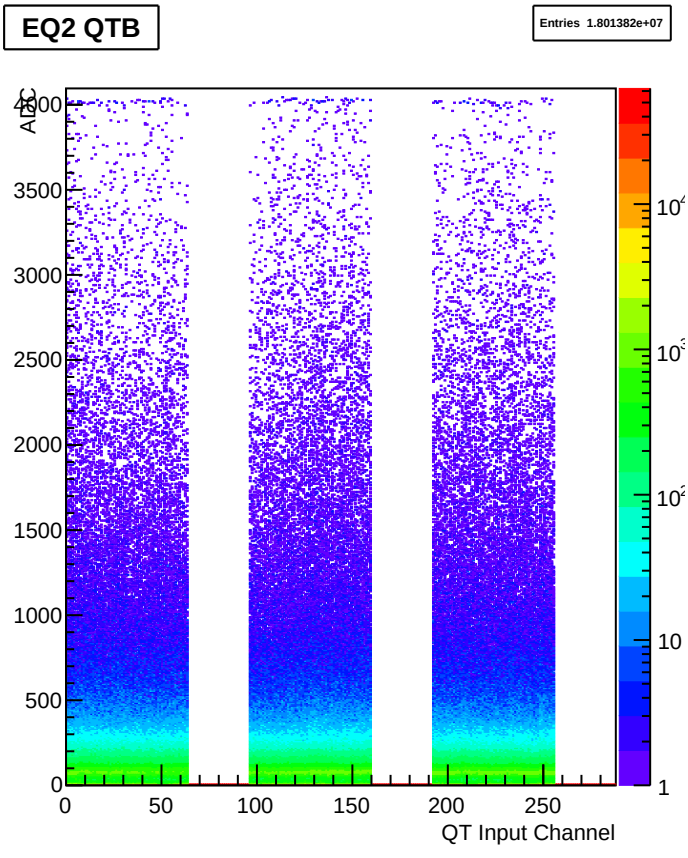

BBQ-VP002 West
Entries 1000768
TAC
QT Input Channel

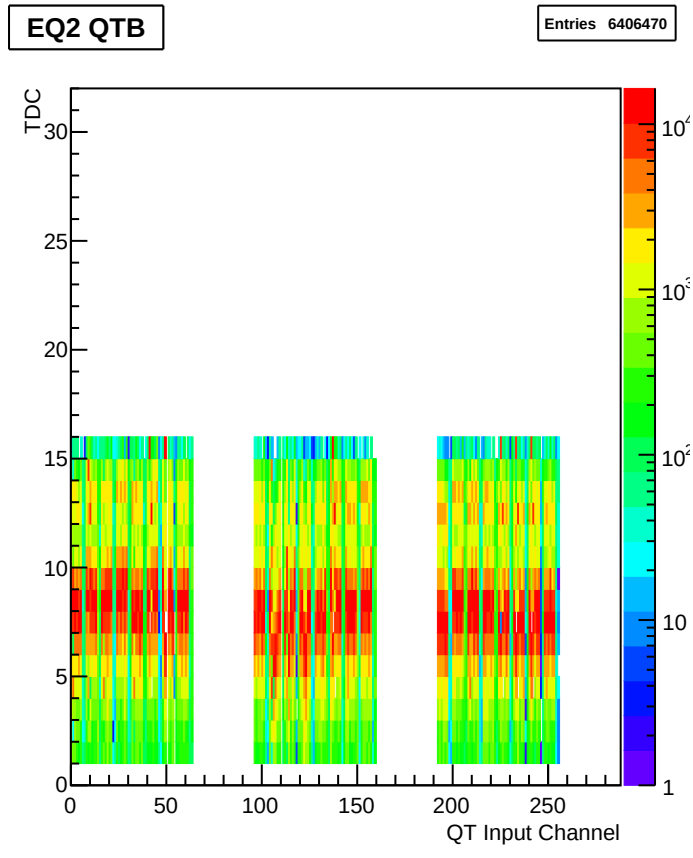

EQ1 QTB
Entries 1.801382e+07
ADC
QT Input Channel

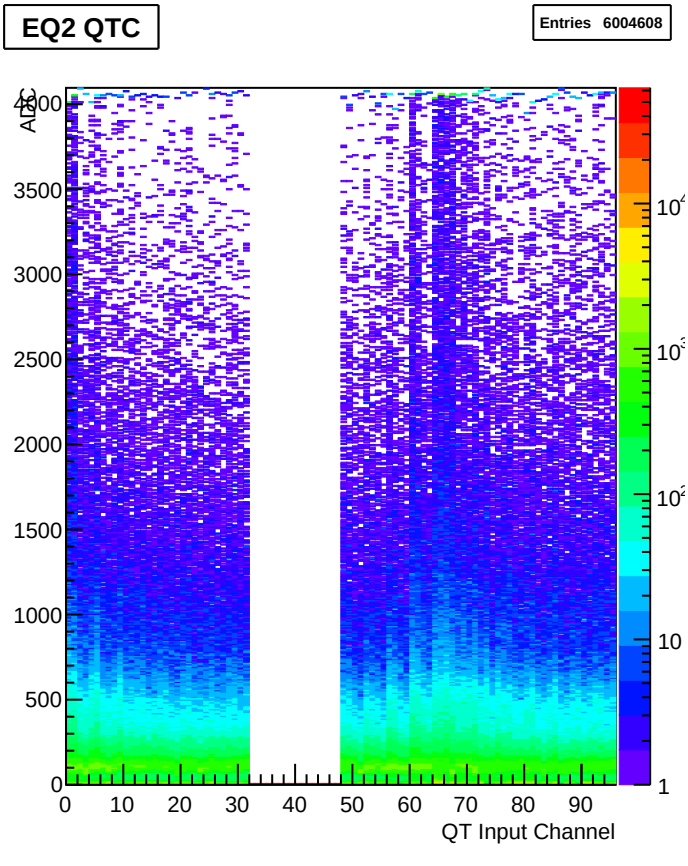

EQ1 QTB
Entries 5848324
TDC
QT Input Channel

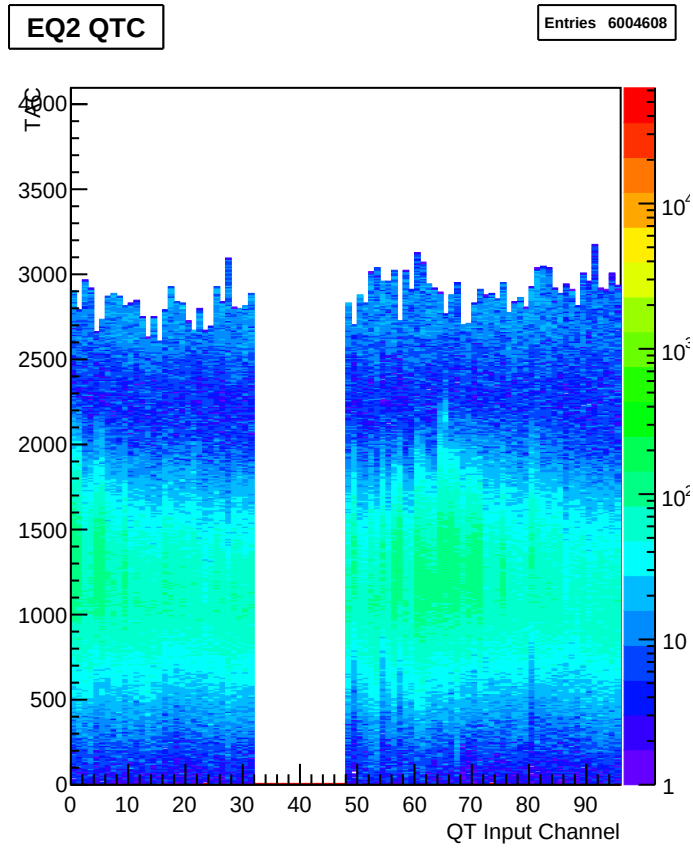

EQ1 QTC
Entries 6004608
ADC
QT Input Channel

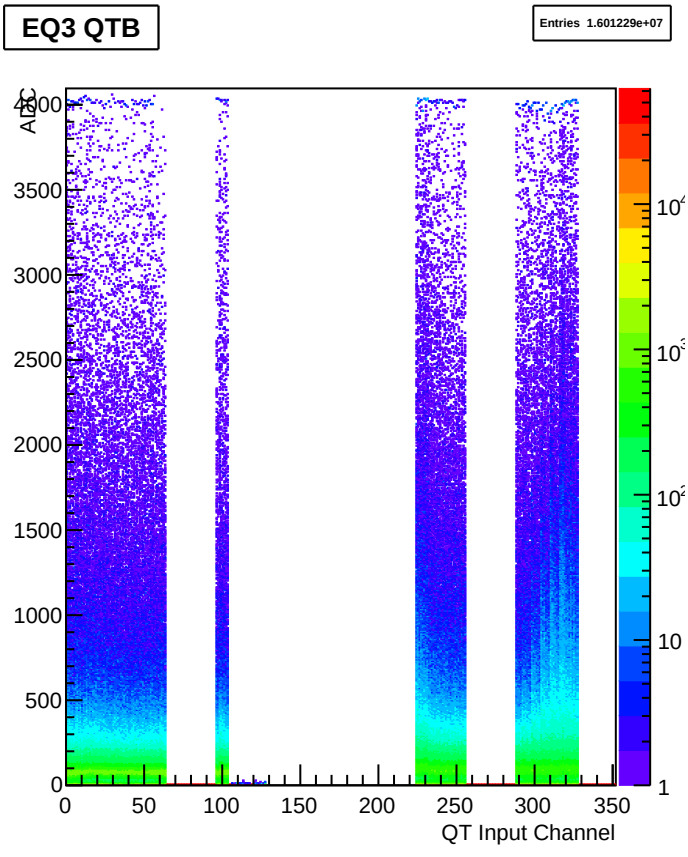

EQ1 QTC
Entries 6004608
TADC
QT Input Channel

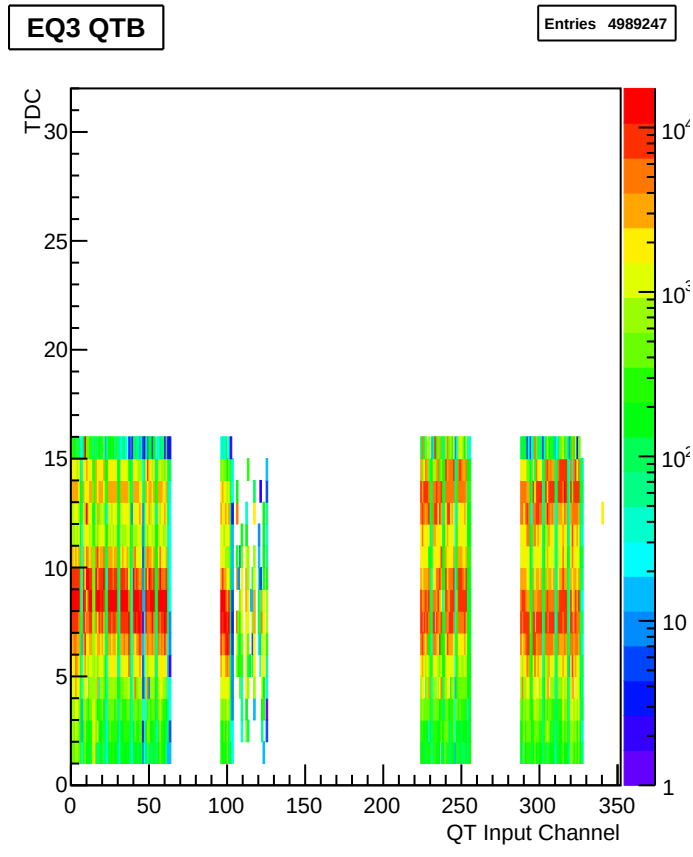

EQ2 QTB
Entries 1.801382e+07
ADC
QT Input Channel

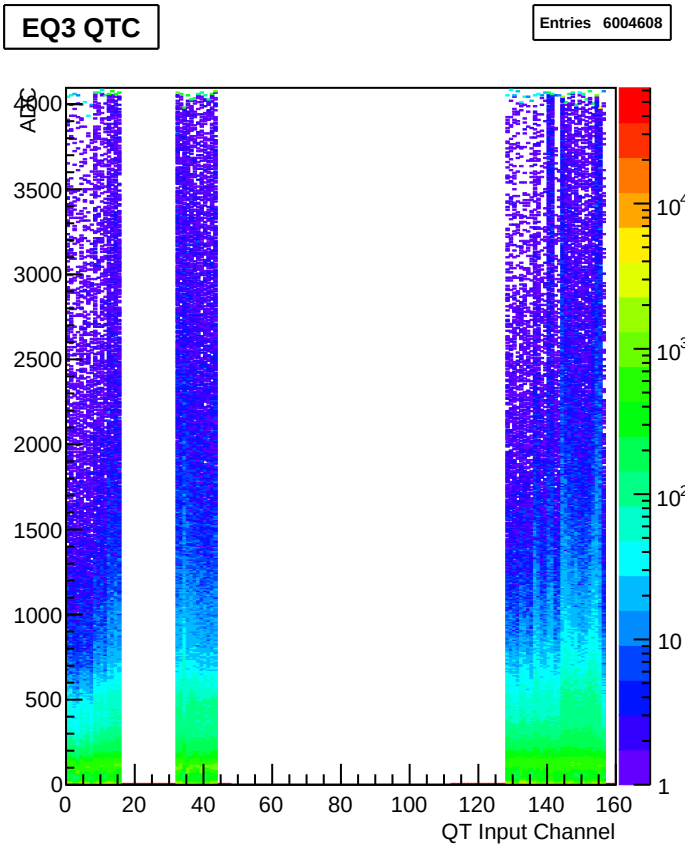

EQ2 QTB
Entries 6406470
TDC
QT Input Channel


EQ2 QTC
Entries 6004608
ADC
QT Input Channel


EQ2 QTC
Entries 6004608
TADC
QT Input Channel


EQ3 QTB
Entries 1.601229e+07
ADC
QT Input Channel


EQ3 QTB
Entries 4989247
TDC
QT Input Channel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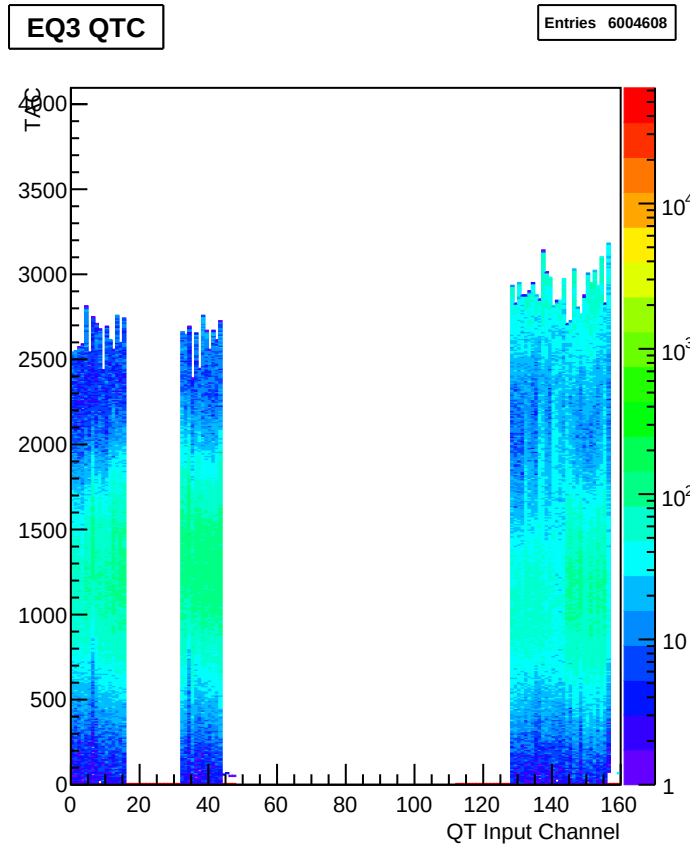
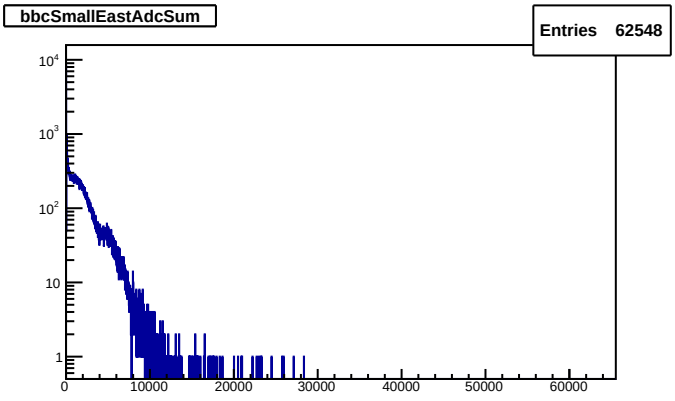
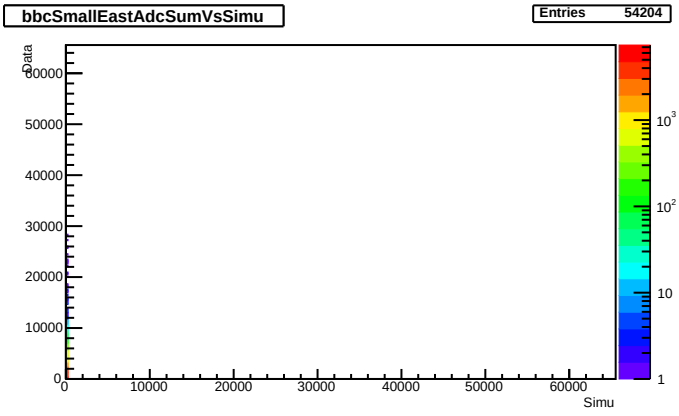
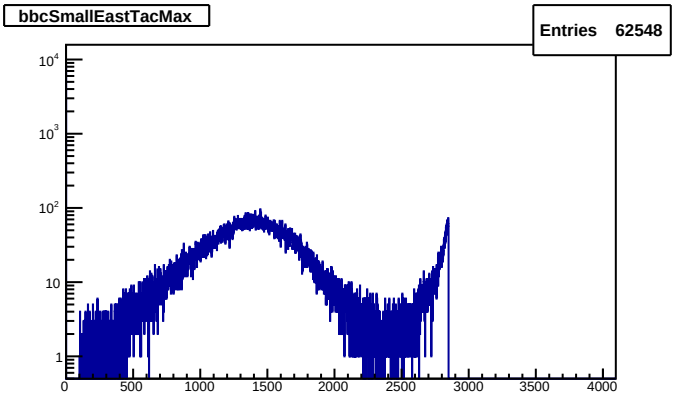
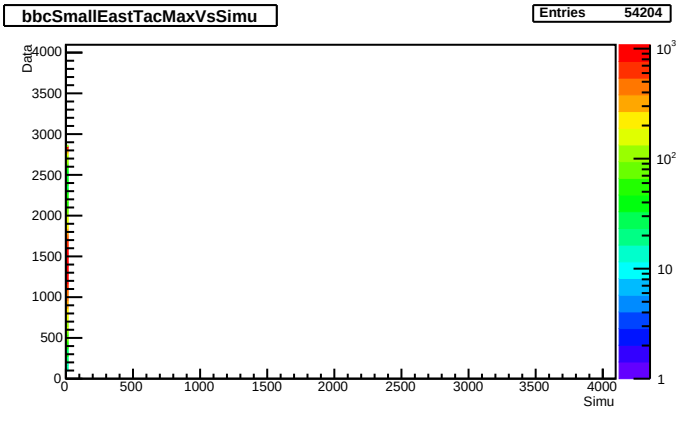
Entries 6004608
ADC
QT Input Channel

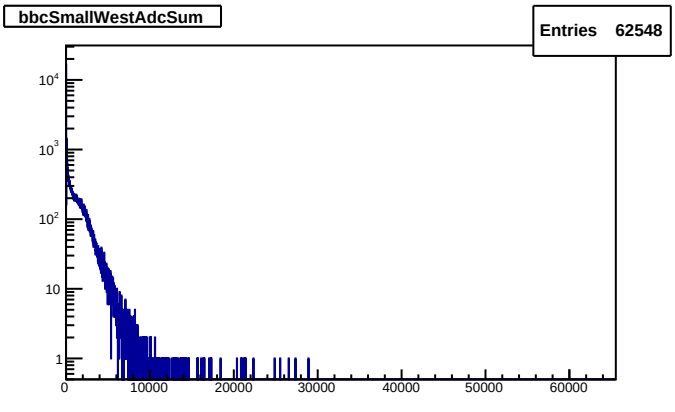

EQ3 QTC
Entries 6004608
TADC
QT Input Channel

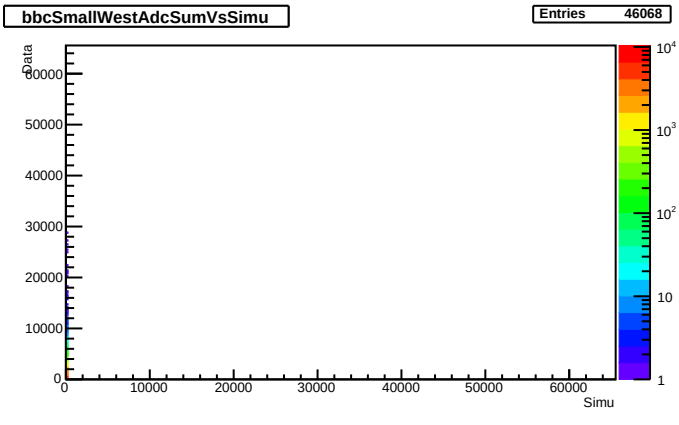

bbcSmallEastAdcSum
Entries 62548

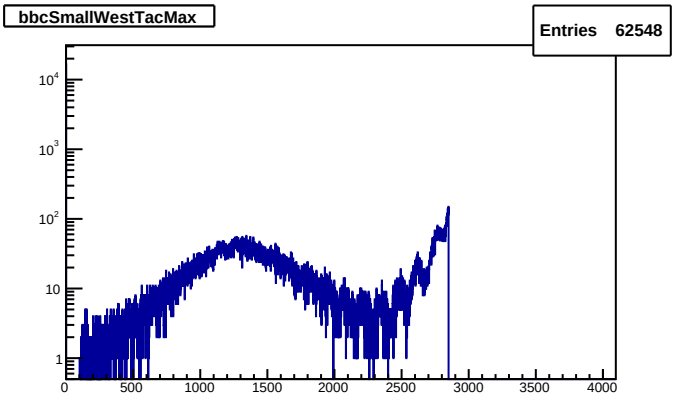

bbcSmallEastAdcSumVsSimu
Entries 54204
Data
Simu

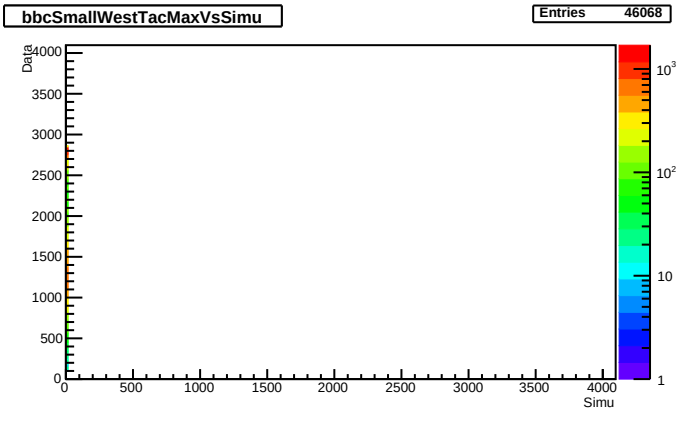

bbcSmallEastTacMax
Entries 62548

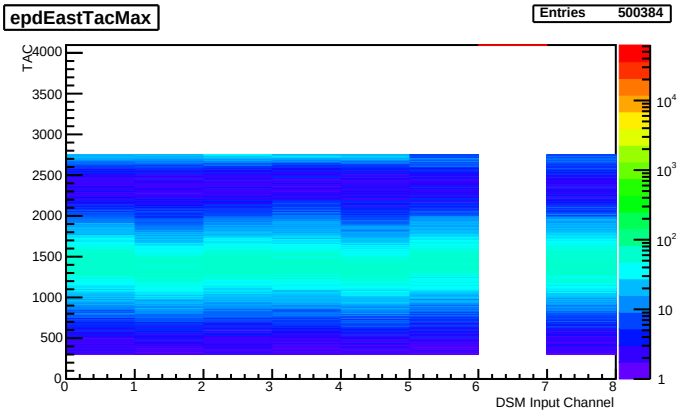

bbcSmallEastTacMaxVsSimu
Entries 54204
Data
Simu

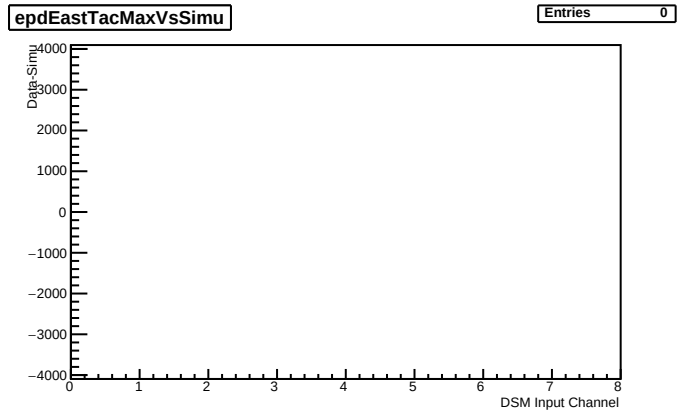

bbcSmallWestAdcSum
Entries 62548

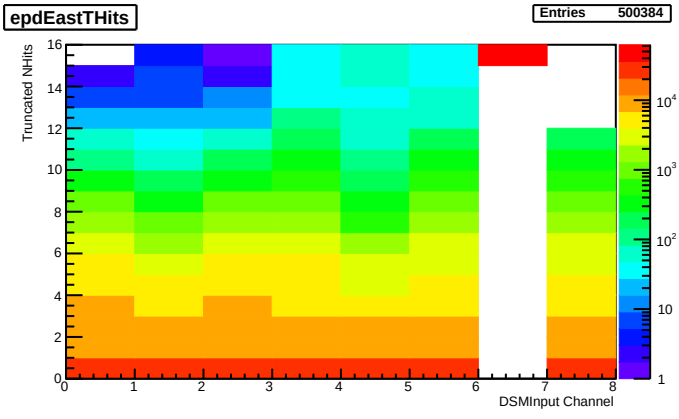

bbcSmallWestAdcSumVsSimu
Entries 46068
Data
Simu

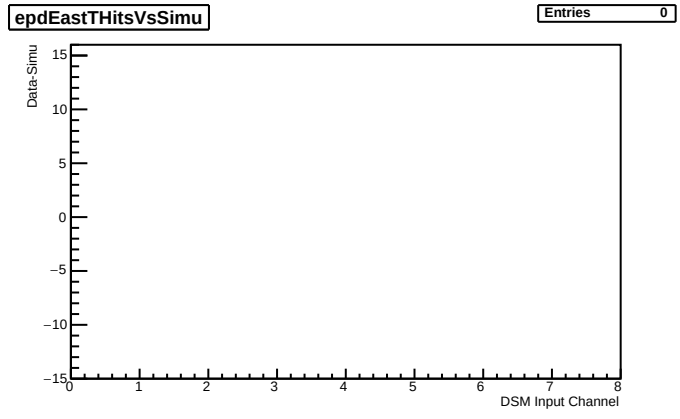

bbcSmallWestTacMax
Entries 62548


bbcSmallWestTacMaxVsSimu
Entries 46068
Data
Simu


epdEastTacMax
Entries 500384
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 500384
Truncated NHits
DSMInput Channel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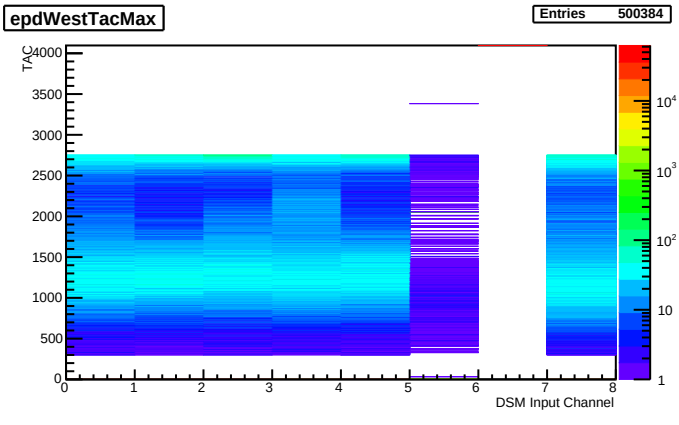
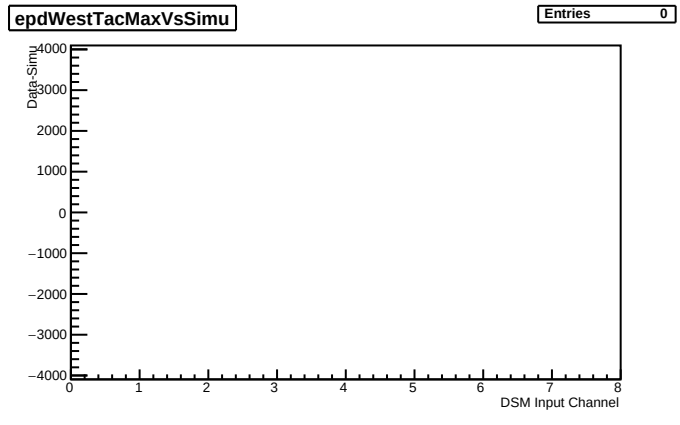
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 500384
TAC
DSM Input Channel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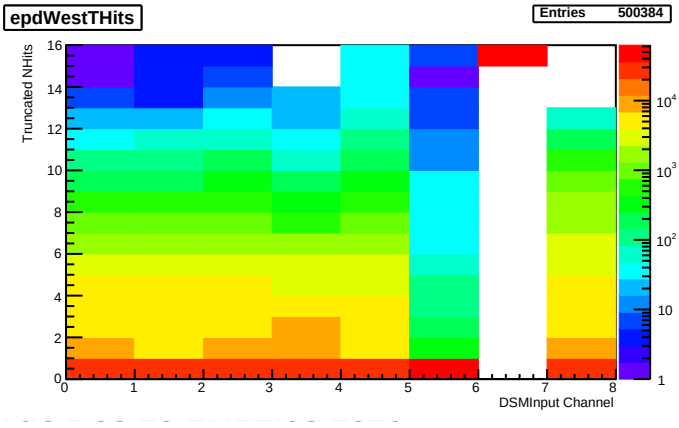
Entries 0
Data-Simu
DSM Input Channel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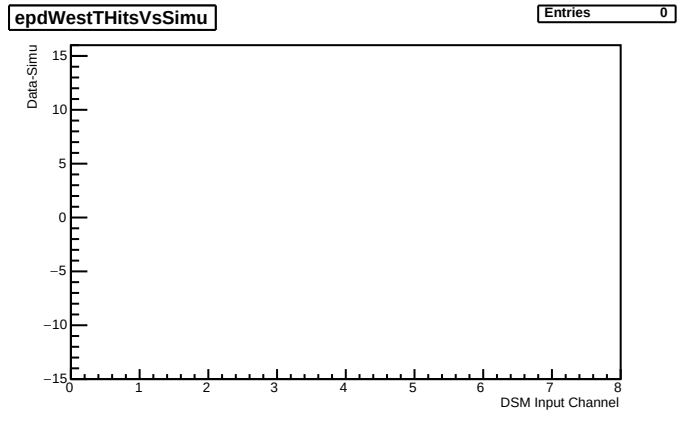
Entries 500384
Truncated NHits
DSMInput Channel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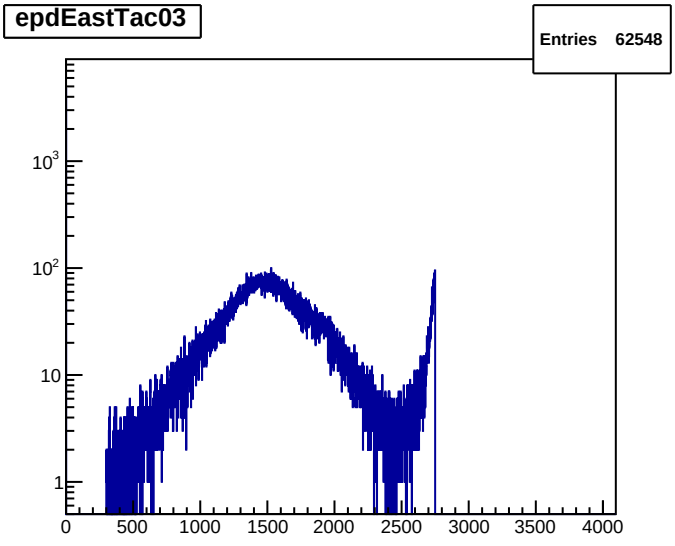
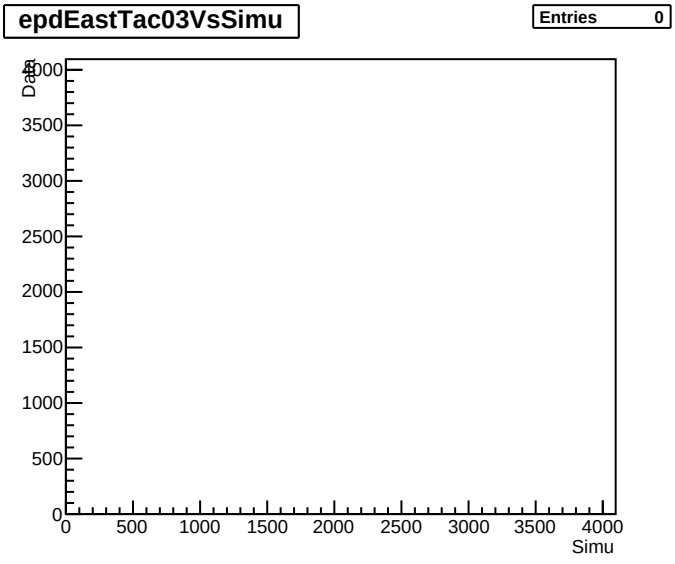
DSM Input Channel


epdEastTac03
Entries 62548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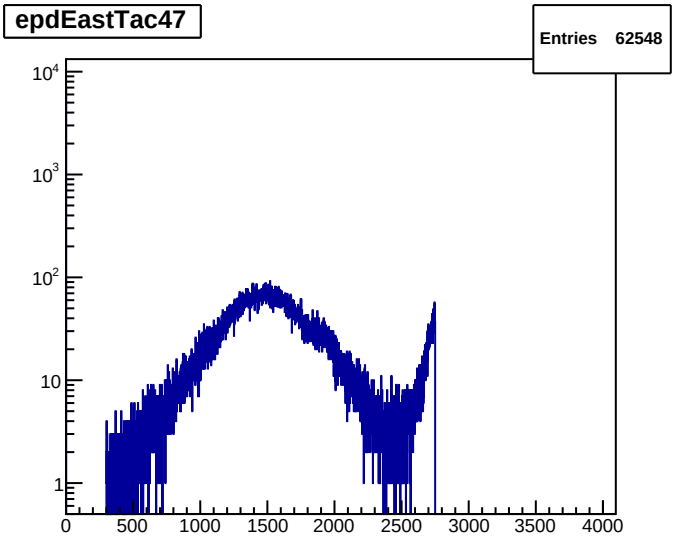
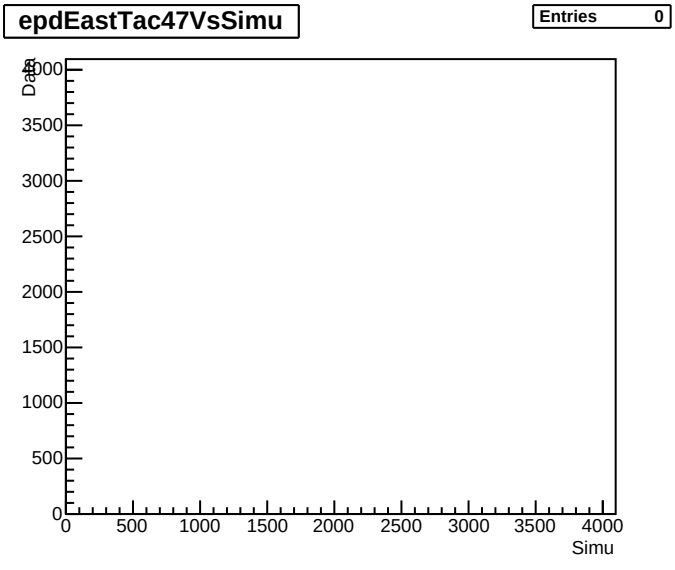
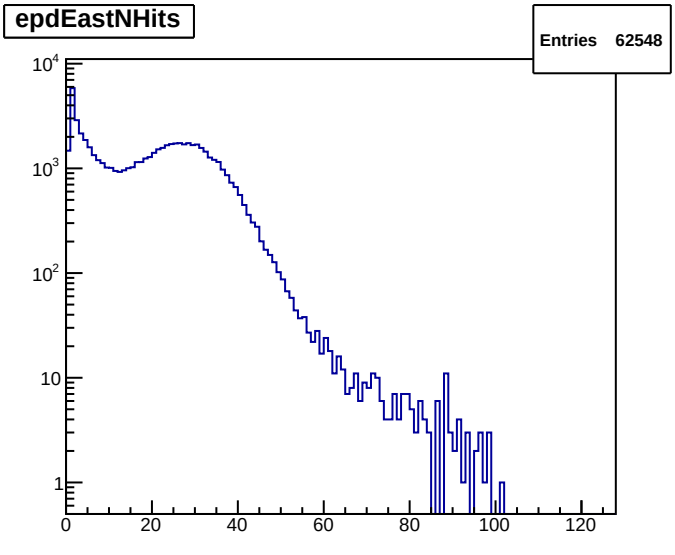
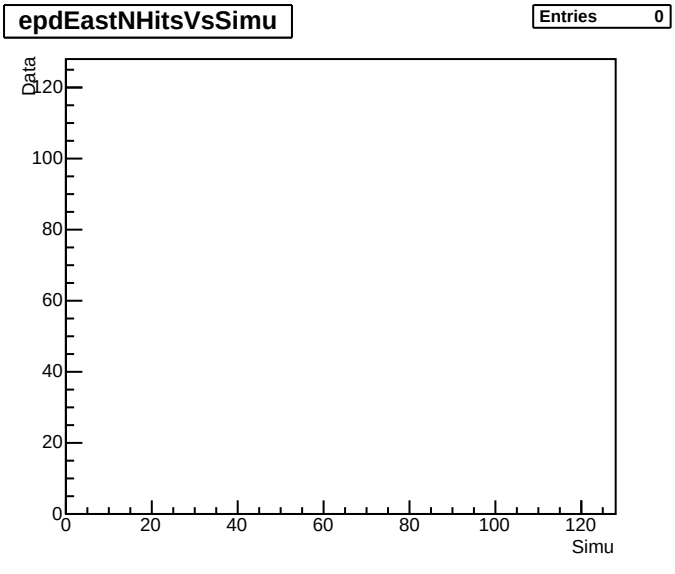
Entries 0
Data
Simu


epdEastTac47
Entries 62548


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 62548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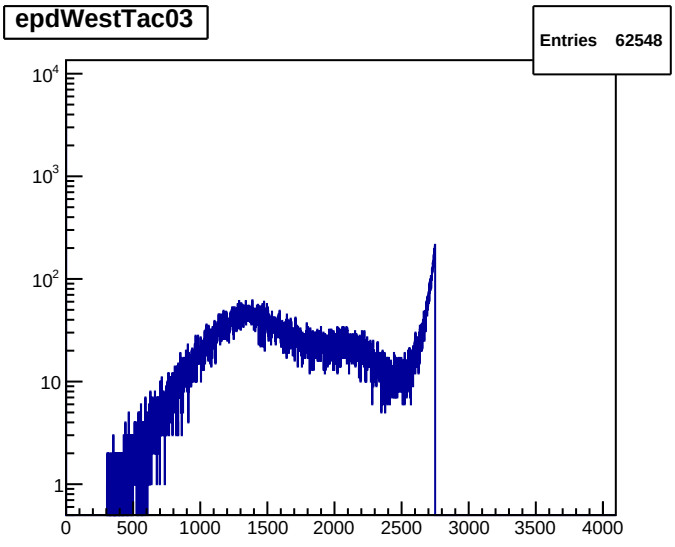
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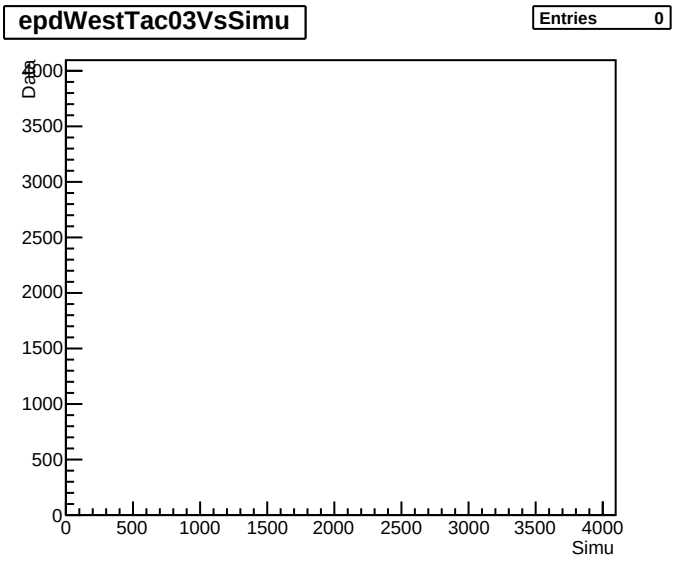
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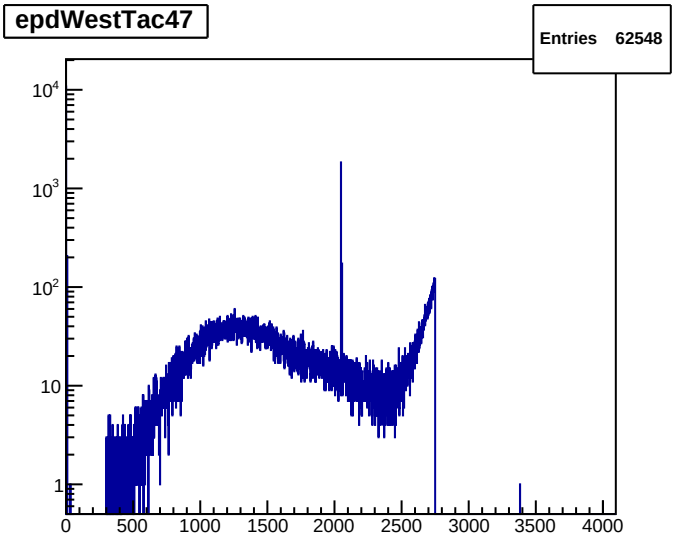
Data
Simu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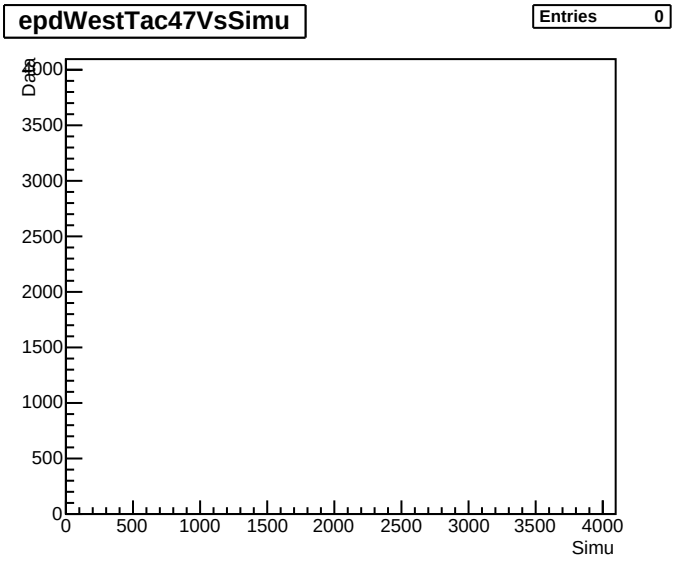
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Entries 0
Data
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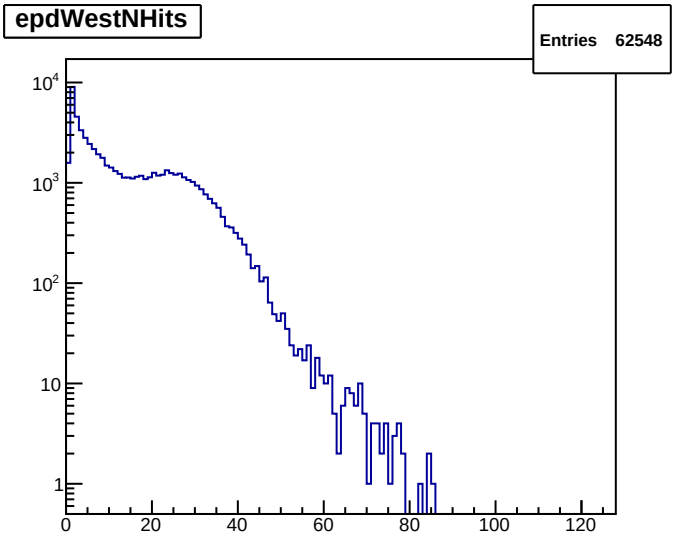
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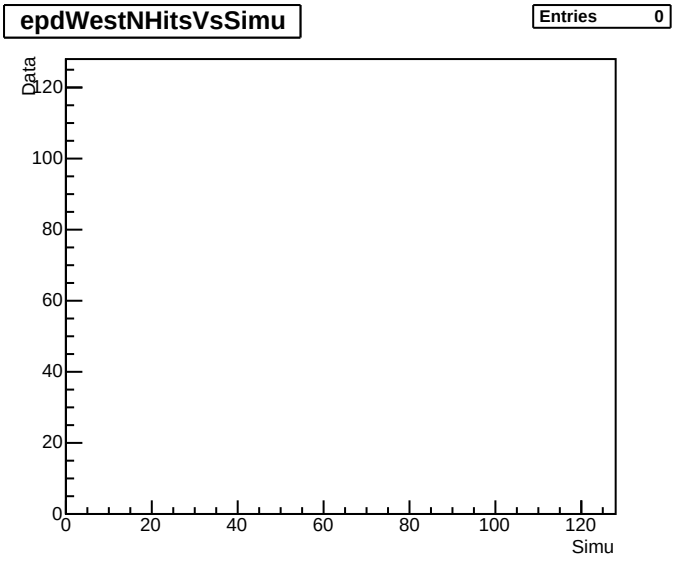
Entries 62548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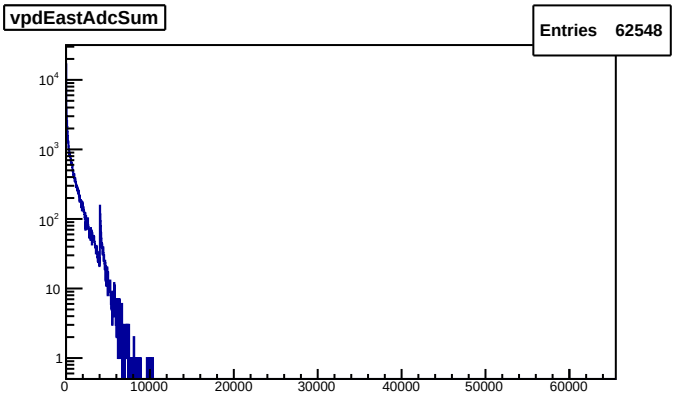
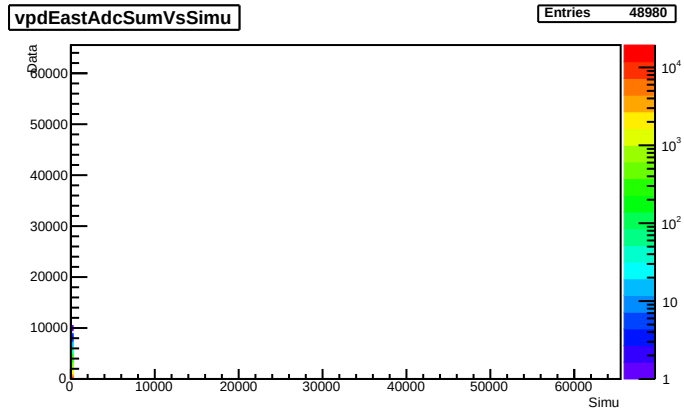
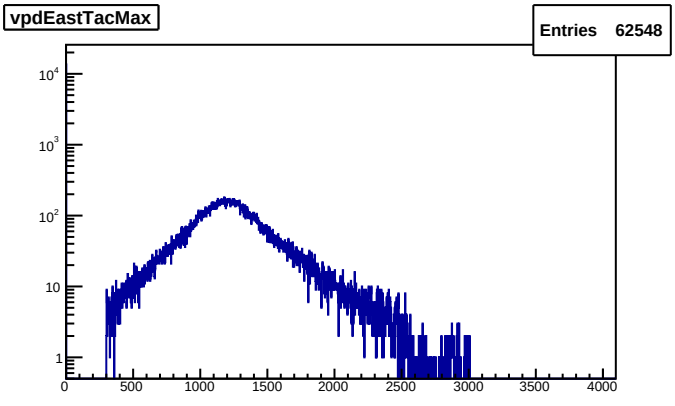
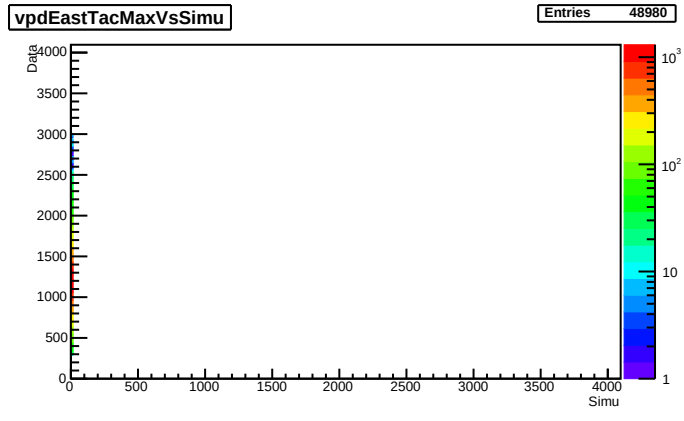
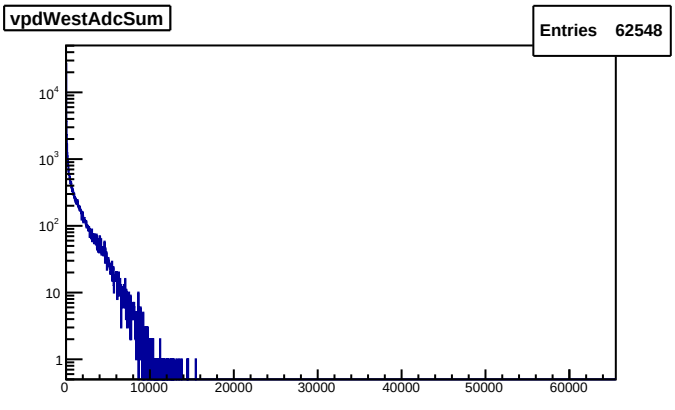
Entries 0
Data
Simu

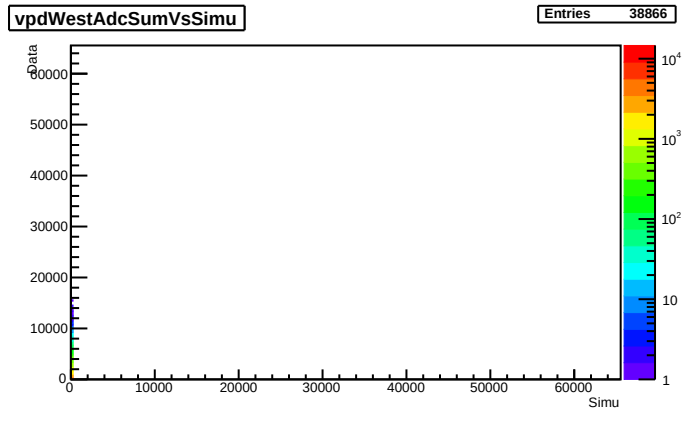

vpdEastAdcSum
Entries 62548

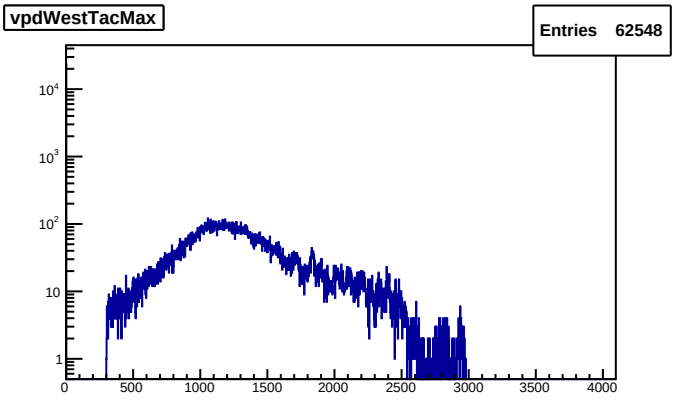

vpdEastAdcSumVsSimu
Entries 48980
Data
Simu

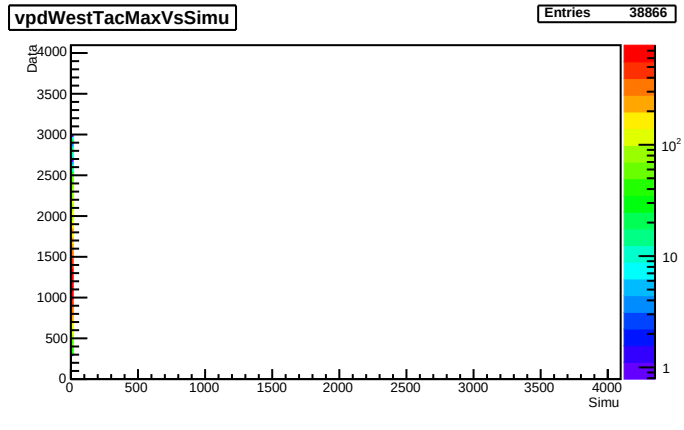

vpdEastTacMax
Entries 62548

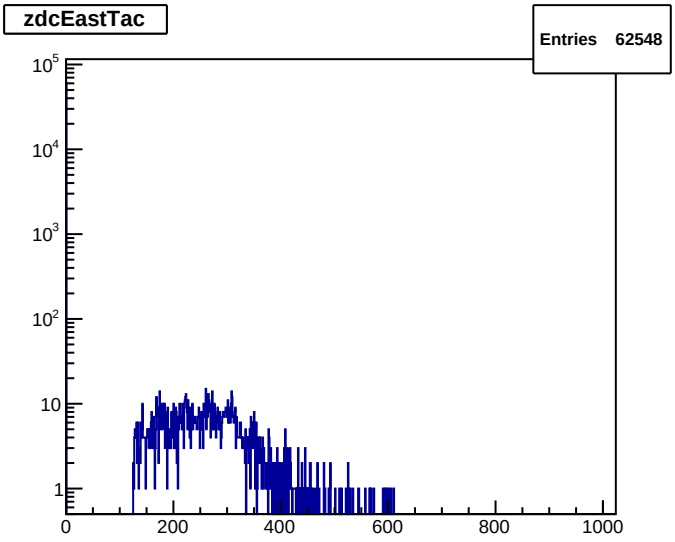

vpdEastTacMaxVsSimu
Entries 48980
Data
Simu

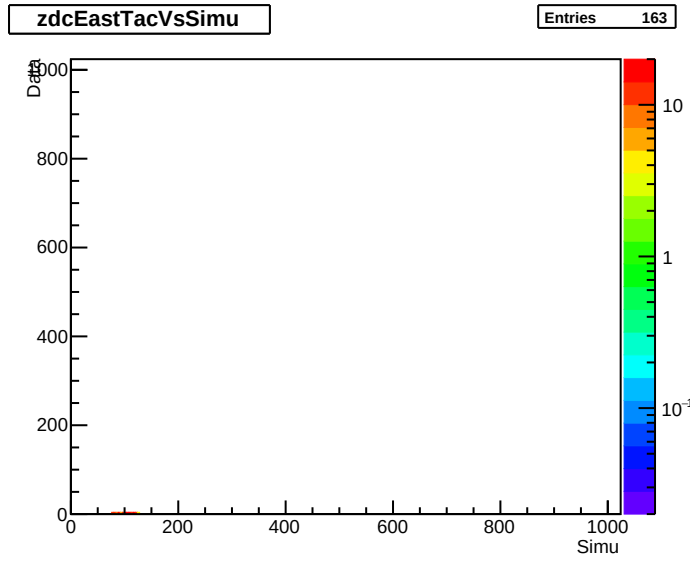

vpdWestAdcSum
Entries 62548

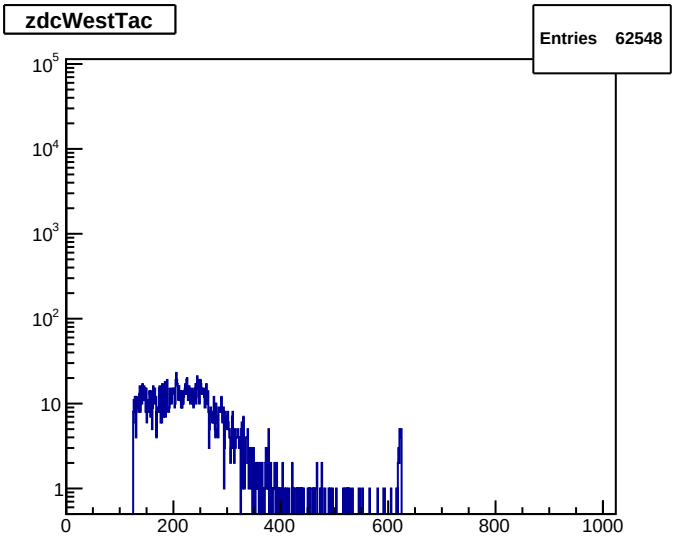

vpdWestAdcSumVsSimu
Entries 38866
Data
Simu

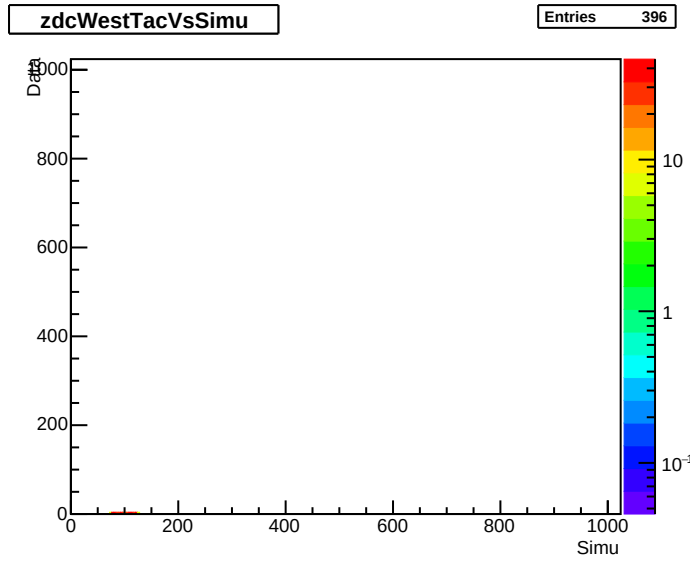

vpdWestTacMax
Entries 62548

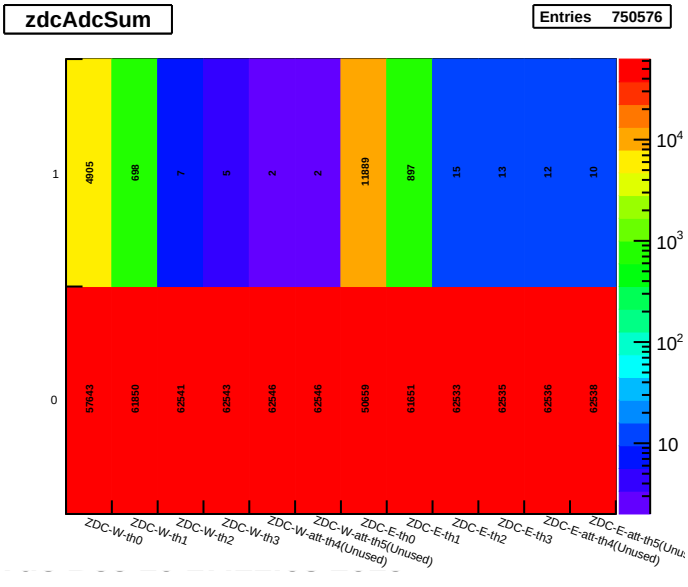

vpdWestTacMaxVsSimu
Entries 38866
Data
Simu

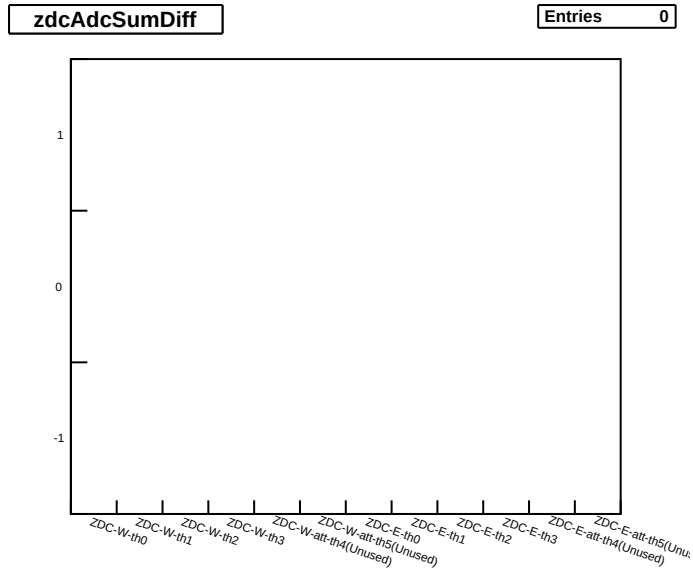

zdcEastTac
Entries 62548

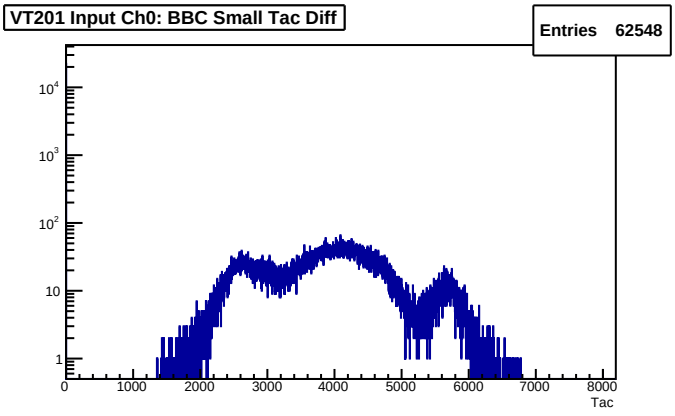

zdcEastTacVsSimu
Entries 163
Data
Simu

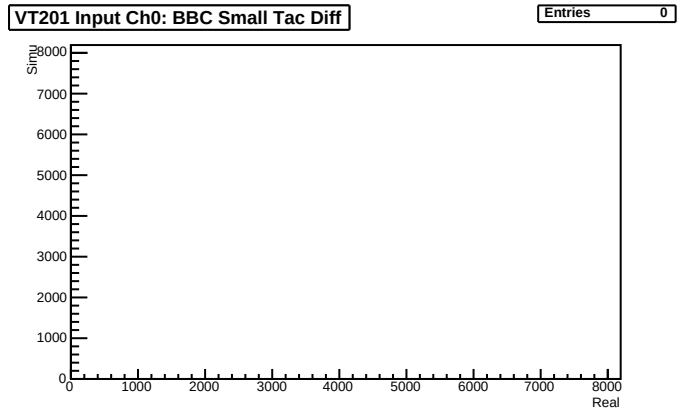

zdcWestTac
Entries 62548

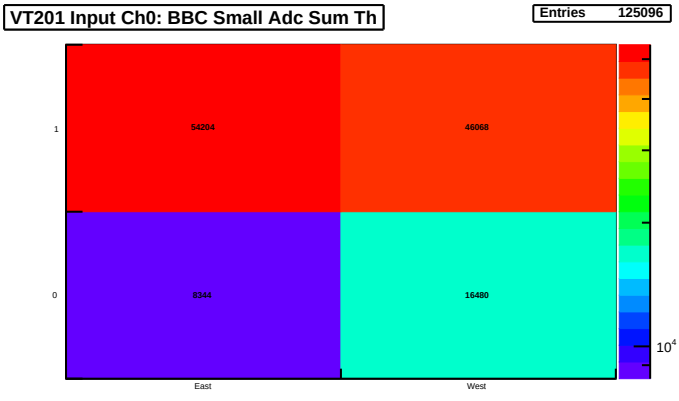

zdcWestTacVsSimu
Entries 396
Data
Simu

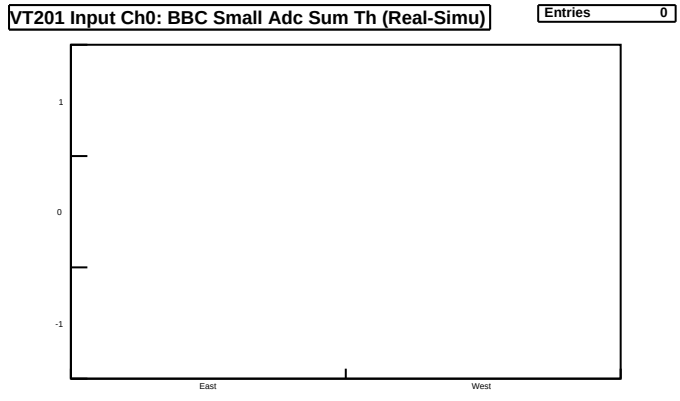

zdcAdcSum
Entries 750576
4905
698
7
5
2
2
11889
897
15
13
12
10
57643
61850
62541
62543
62546
62546
50659
61651
62533
62535
62536
62538
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

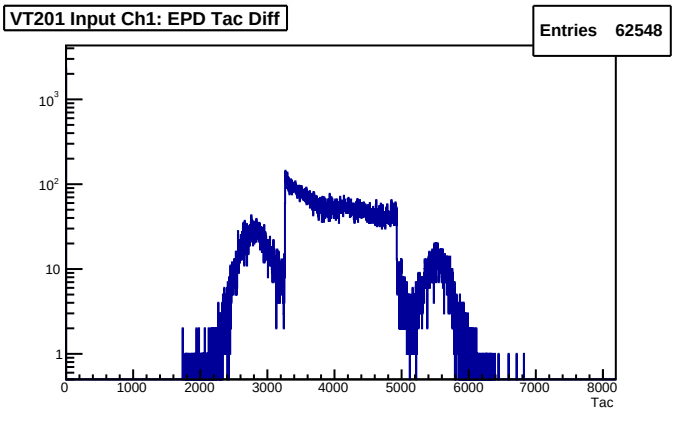

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

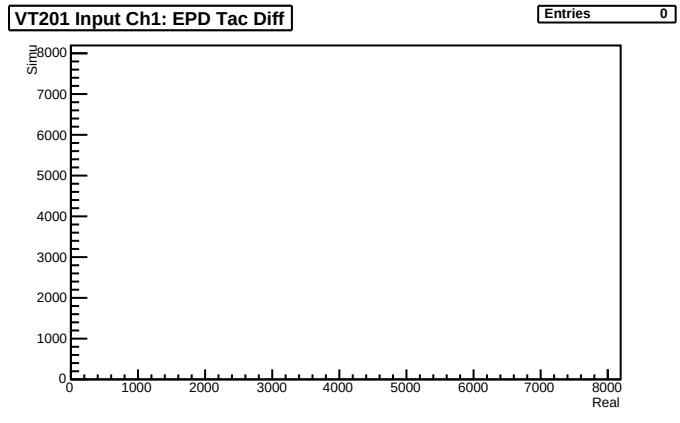

VT201 Input Ch0: BBC Small Tac Diff
Entries 62548
Tac

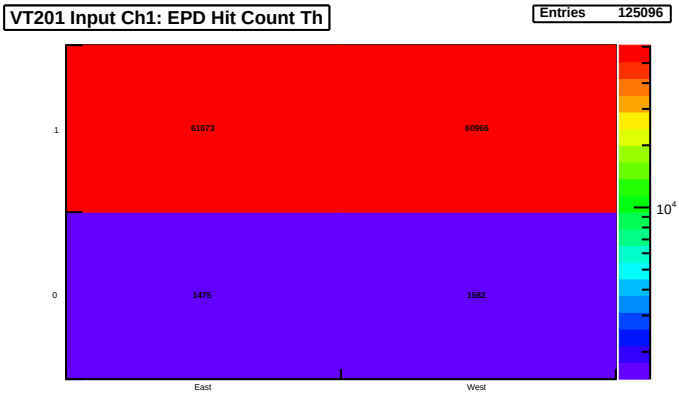

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

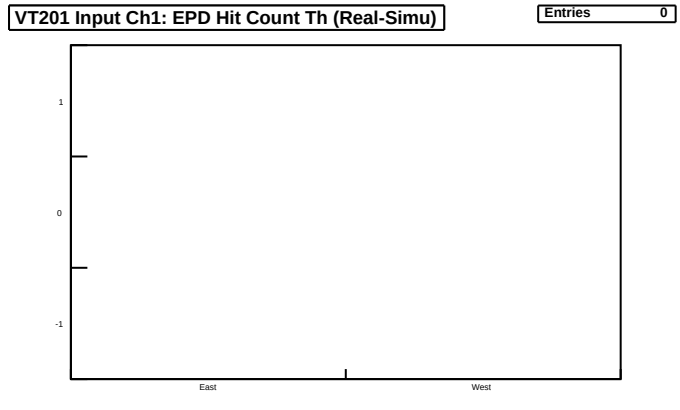

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 125096
54204
46068
8344
16480
East
West

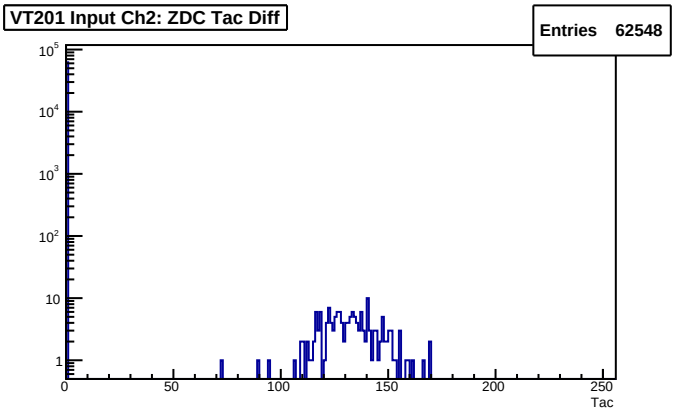

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

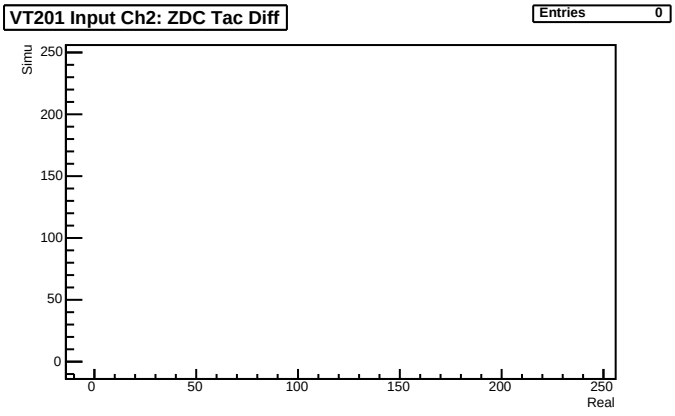

VT201 Input Ch1: EPD Tac Diff
Entries 62548
Tac

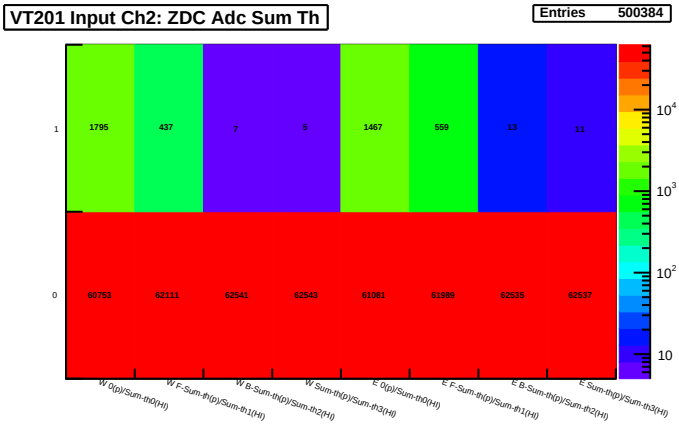

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

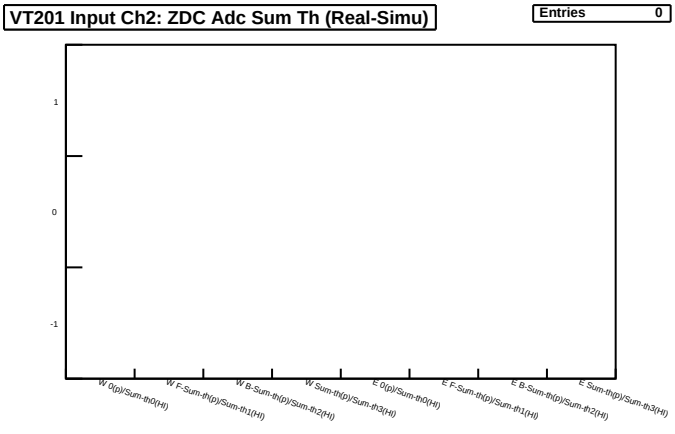

VT201 Input Ch1: EPD Hit Count Th
Entries 125096
61073
60966
1475
1582
East
West

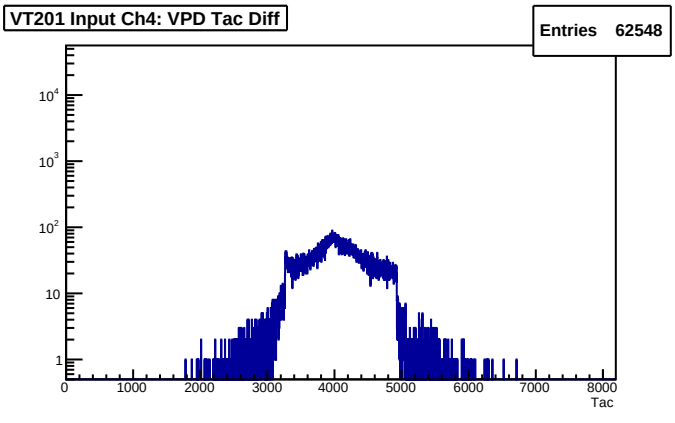

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

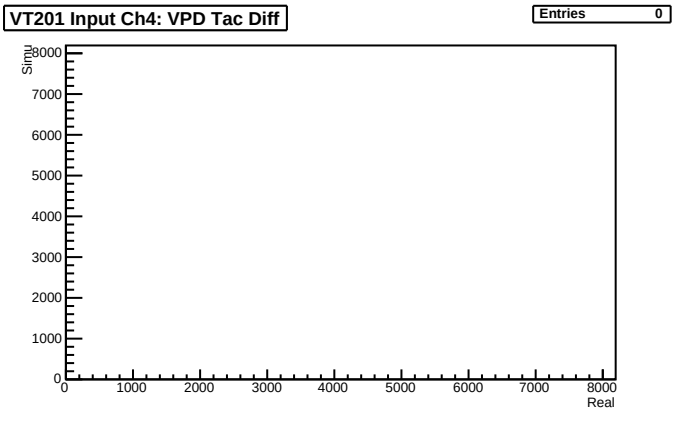

VT201 Input Ch2: ZDC Tac Diff
Entries 62548
Tac

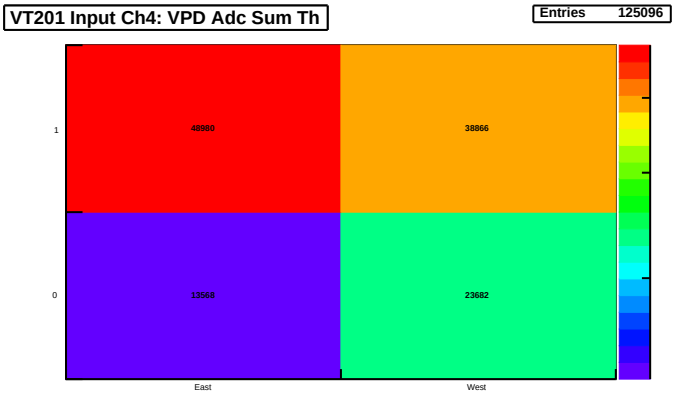

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

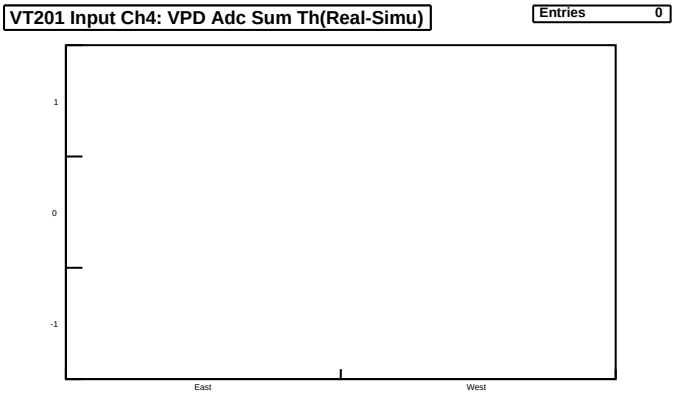

VT201 Input Ch2: ZDC Adc Sum Th
Entries 500384
1795
437
7
5
1467
559
13
11
60753
62111
62541
62543
61081
61989
62535
62537
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

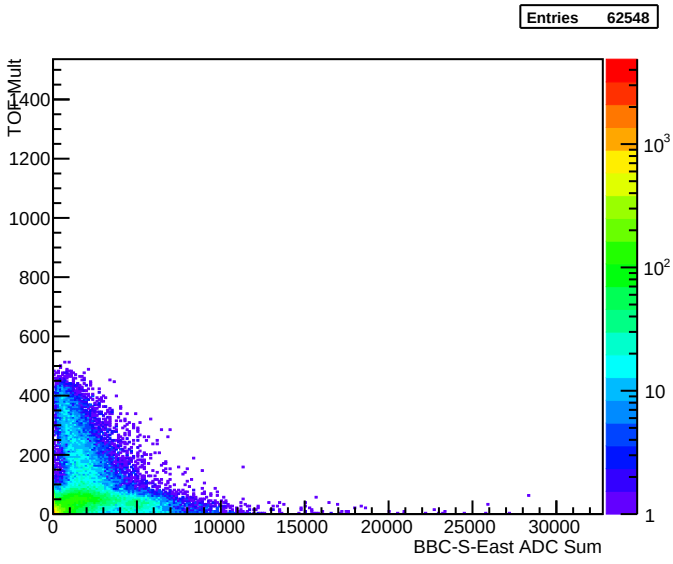

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

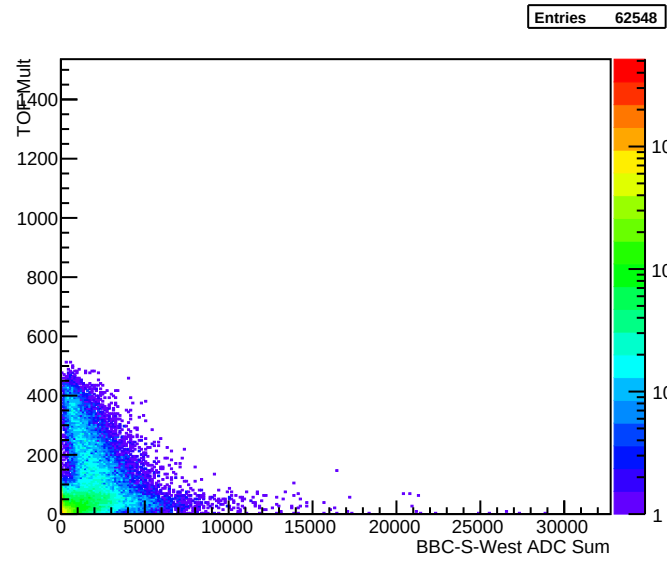

VT201 Input Ch4: VPD Tac Diff
Entries 62548
Tac

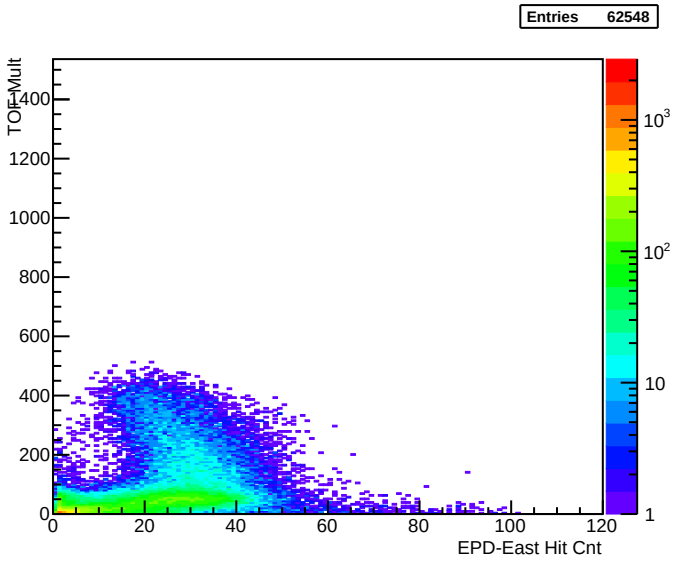

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

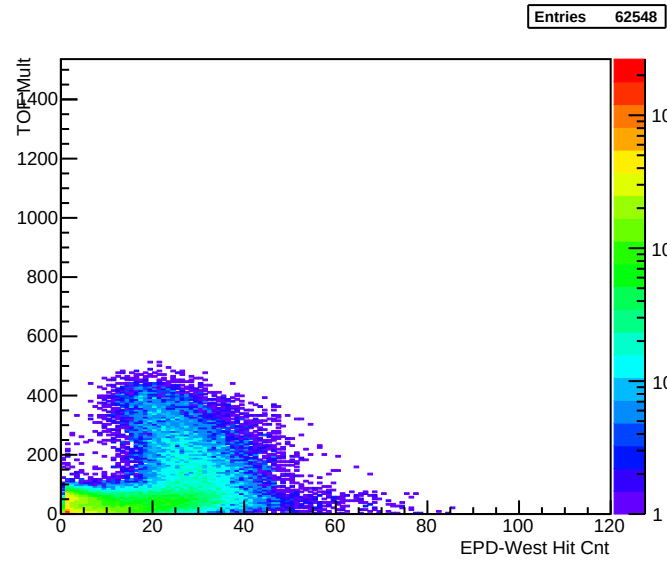

VT201 Input Ch4: VPD Adc Sum Th
Entries 125096
48980
38866
13568
23682
East
West

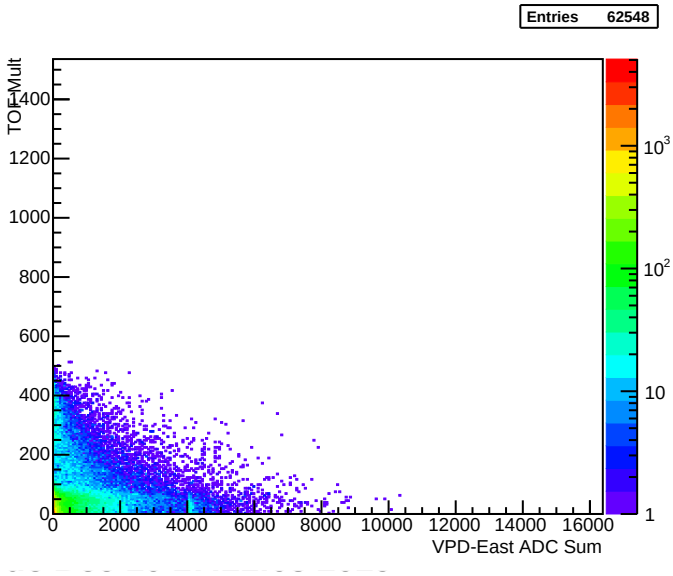

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

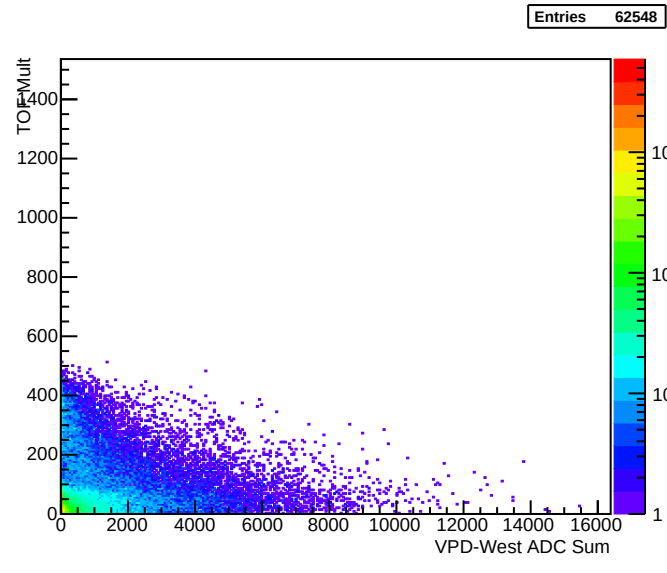

Entries 62548
TOF-Mult
BBC-S-East ADC Sum

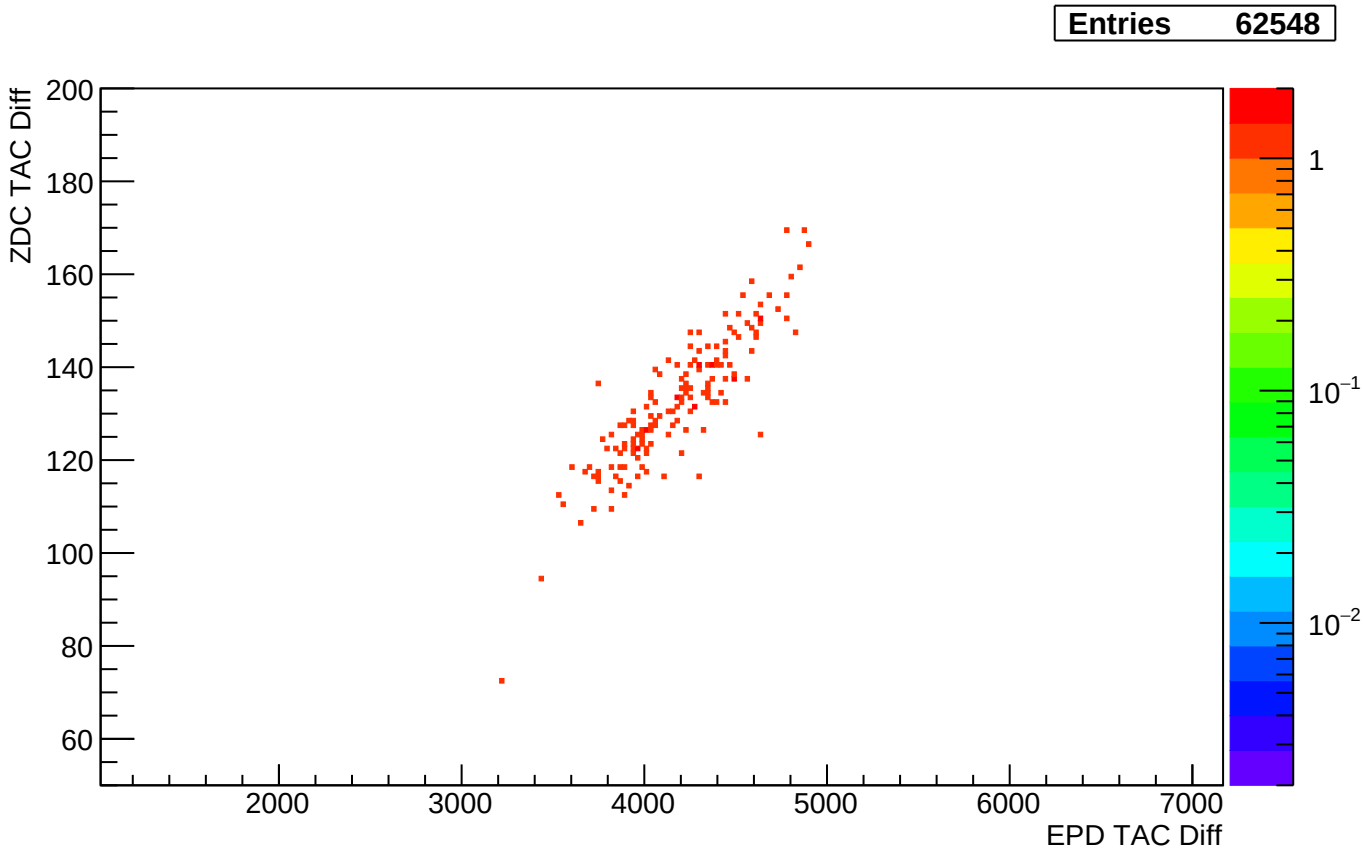

Entries 62548
TOF-Mult
BBC-S-West ADC Sum

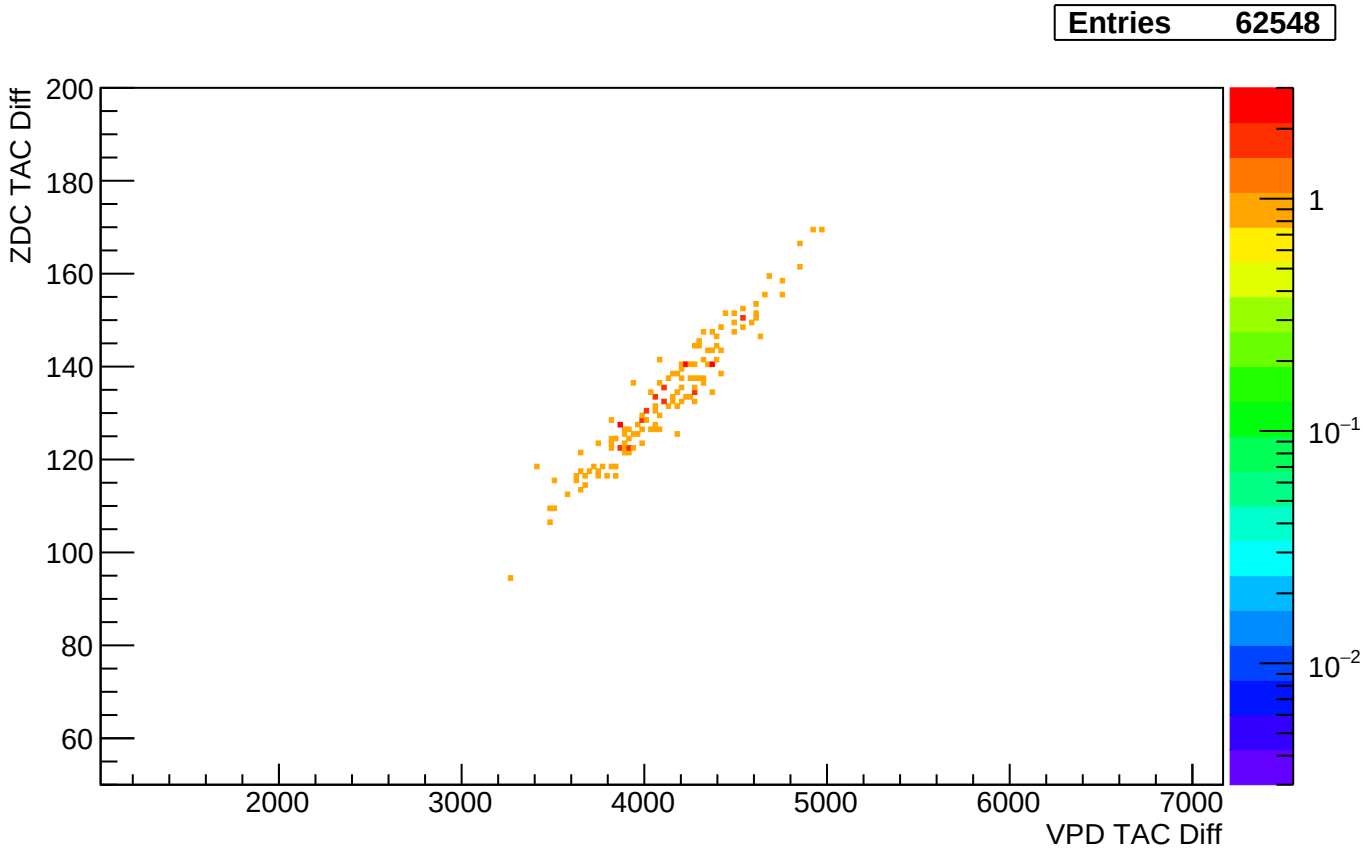

Entries 62548
TOF-Mult
EPD-East Hit Cnt

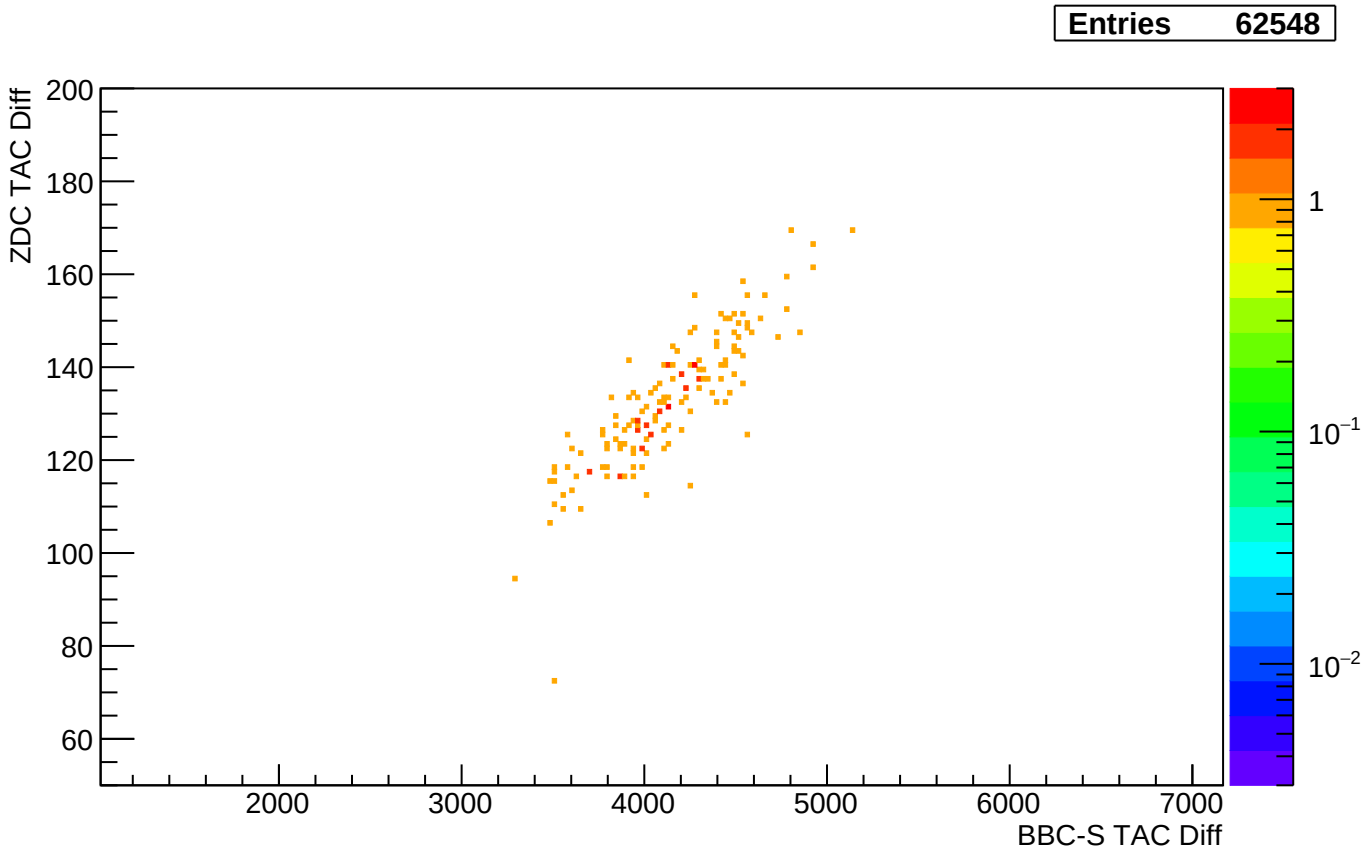

Entries 62548
TOF-Mult
EPD-West Hit Cnt

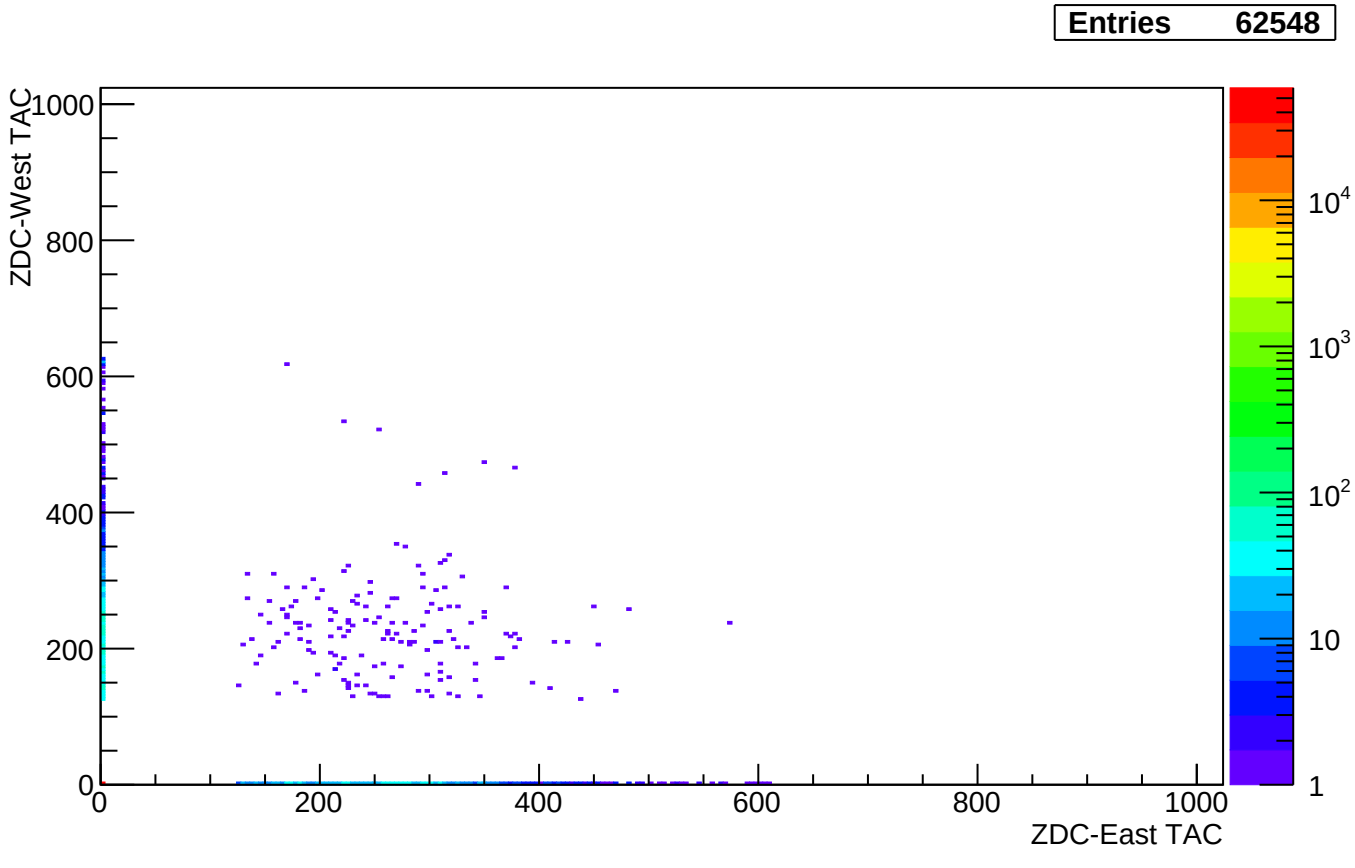

Entries 62548
TOF-Mult
VPD-East ADC Sum

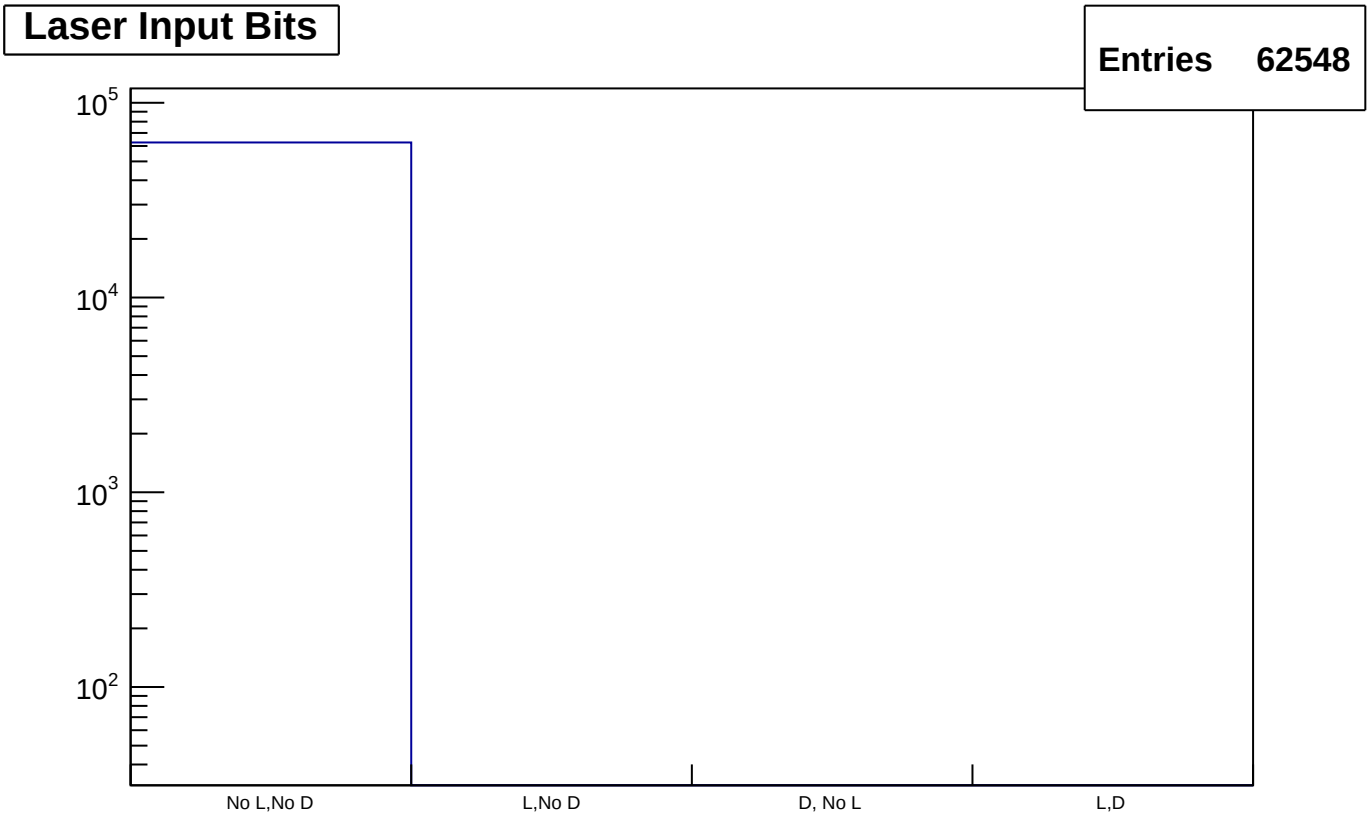

Entries 62548
TOF-Mult
VPD-West ADC Sum

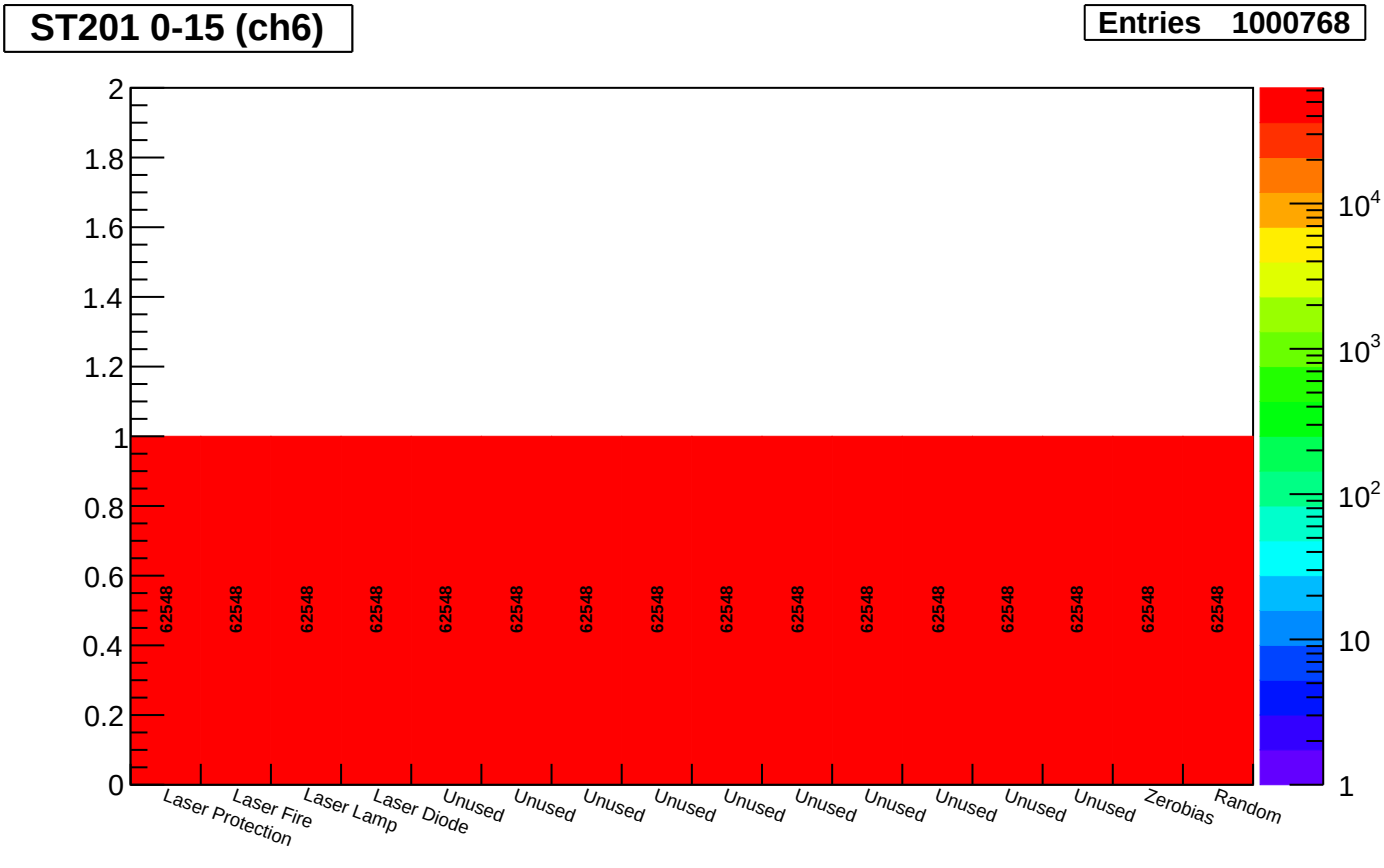

Entries 62548
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

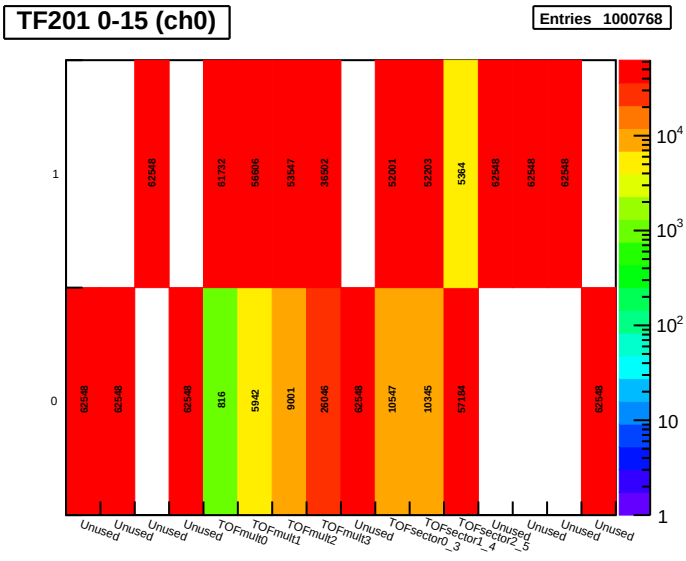

Entries 62548
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

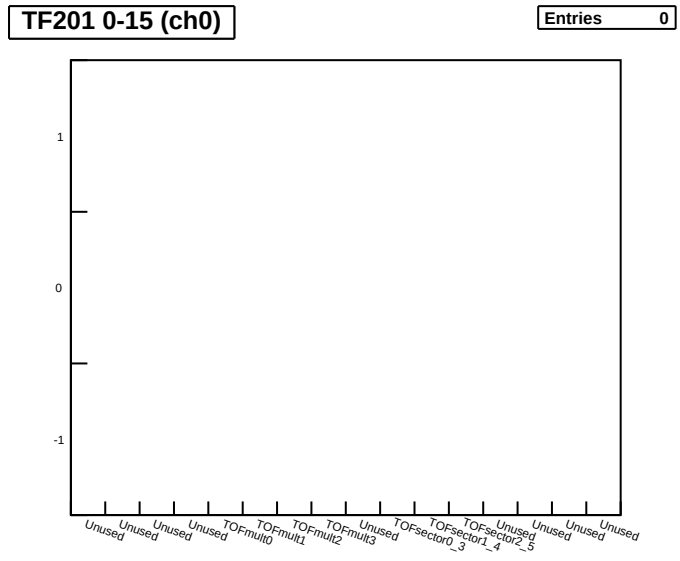

Entries 62548
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

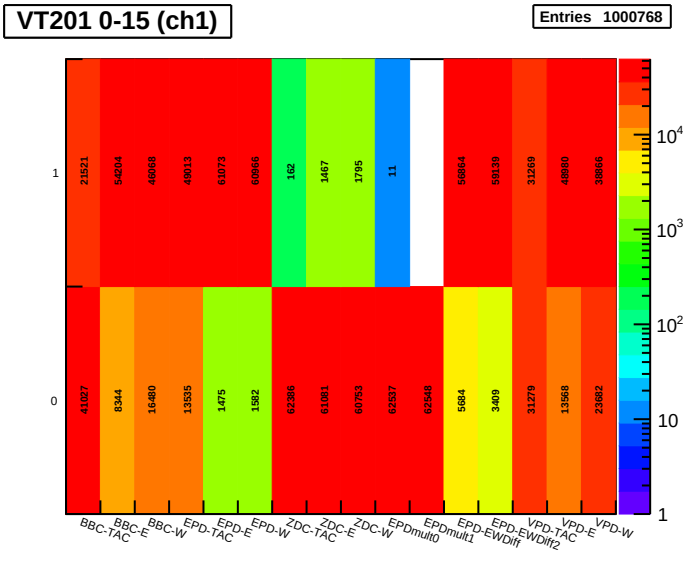

Entries 62548
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^4
10^3
10^2
10
1

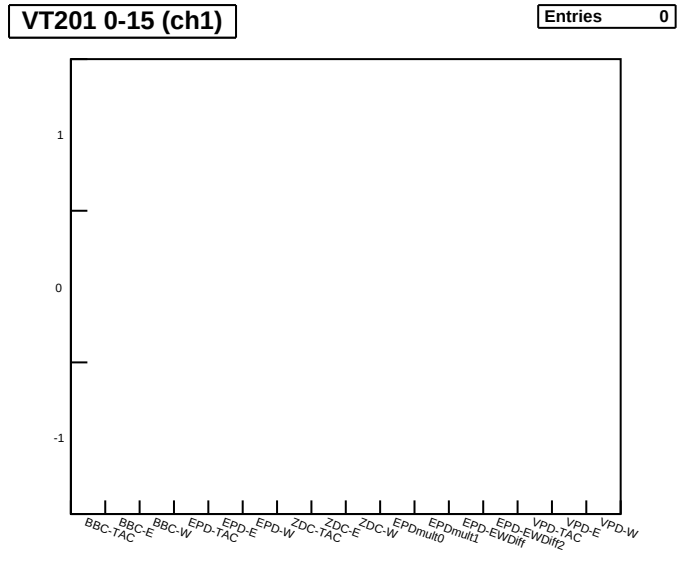

Laser Input Bits
Entries 62548
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

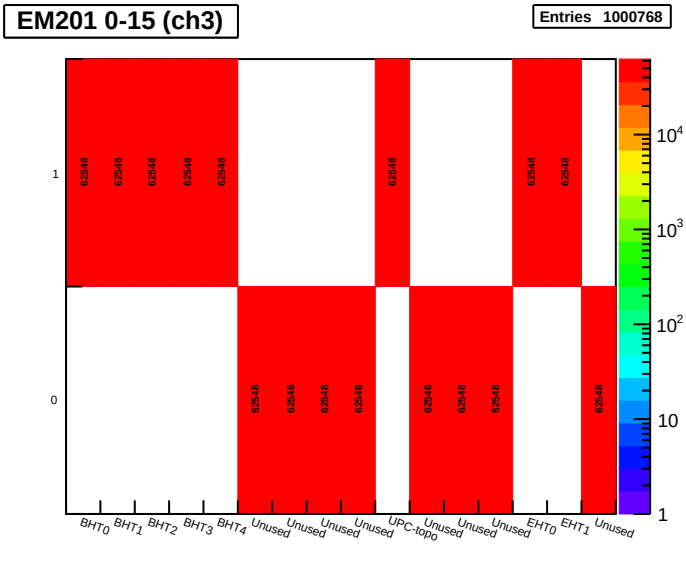

ST201 0-15 (ch6)
Entries 1000768
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
62548
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

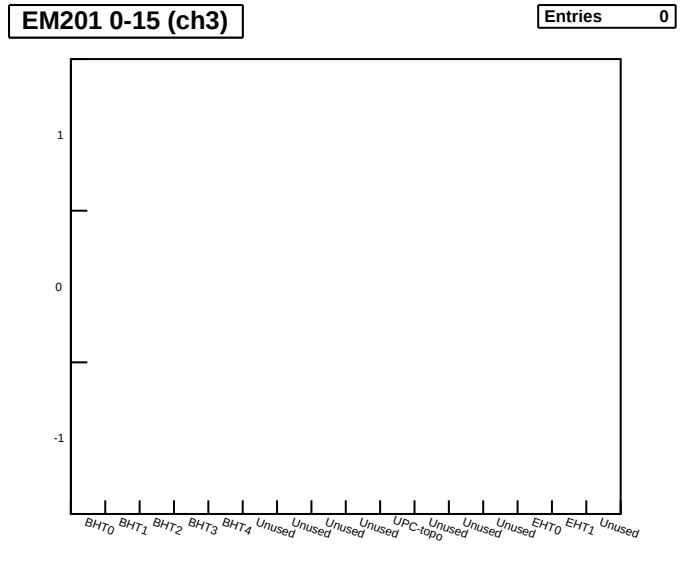

TF201 0-15 (ch0)
Entries 1000768
1
0
62548 61732 56606 53547 36502 52001 52203 5364 62548 62548 62548
62548 62548 62548 816 5942 9001 26046 62548 10547 10345 57184 62548
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^4
10^3
10^2
10
1


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


VT201 0-15 (ch1)
Entries 1000768
1
0
21521 54204 40068 49013 61073 60966 162 1467 1795 11 56684 59139 31269 48980 38666
41027 8344 16480 13535 1475 1582 62306 61081 60753 62537 62548 5684 3409 31279 13568 23682
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W
10^4
10^3
10^2
10
1


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


EM201 0-15 (ch3)
Entries 1000768
1
0
62548 62548 62548 62548 62548 62548 62548 62548
62548 62548 62548 62548 62548 62548 62548 62548
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^4
10^3
10^2
10
1


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