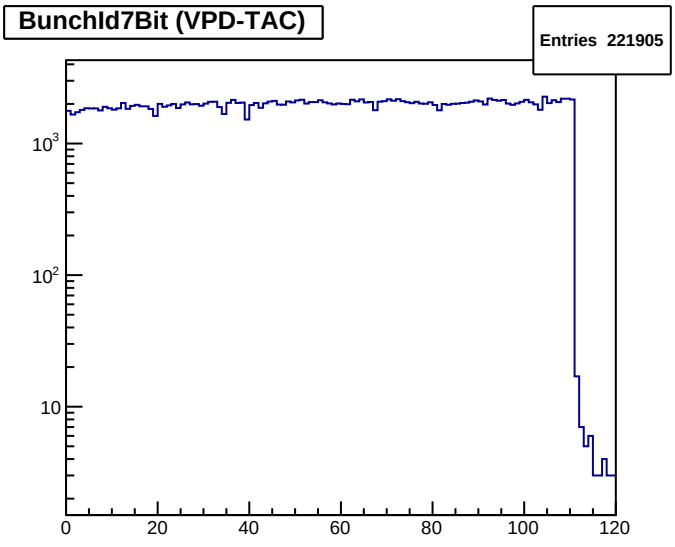
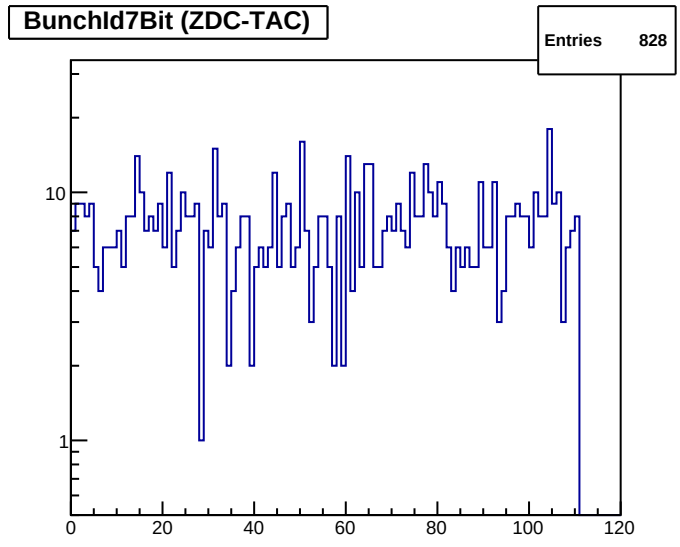
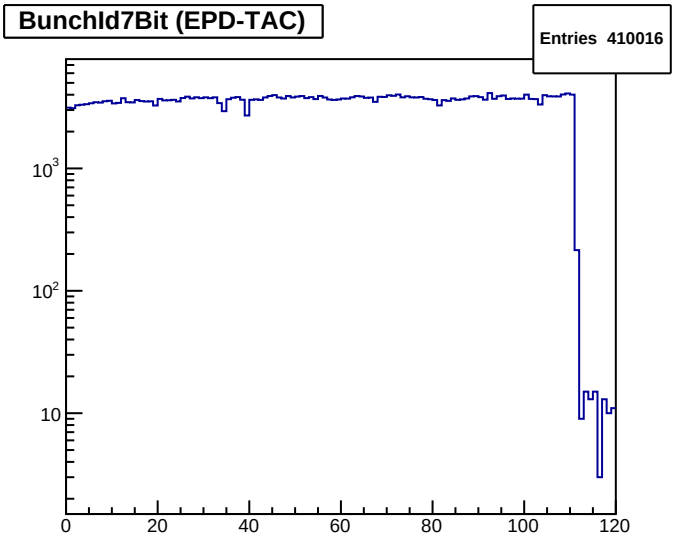
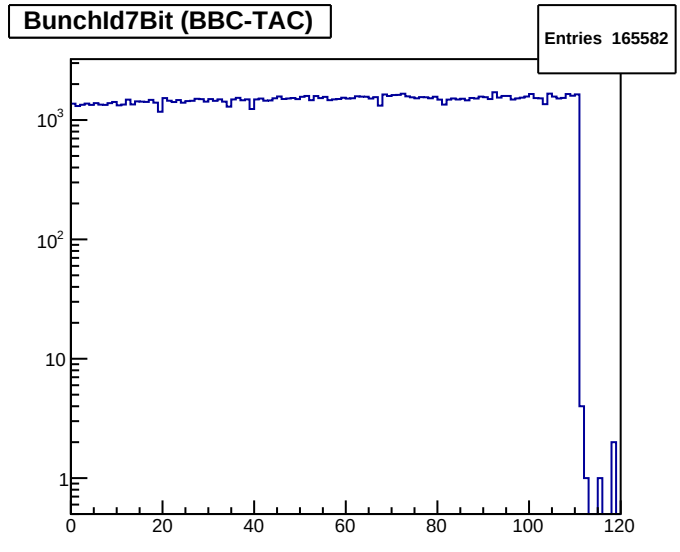
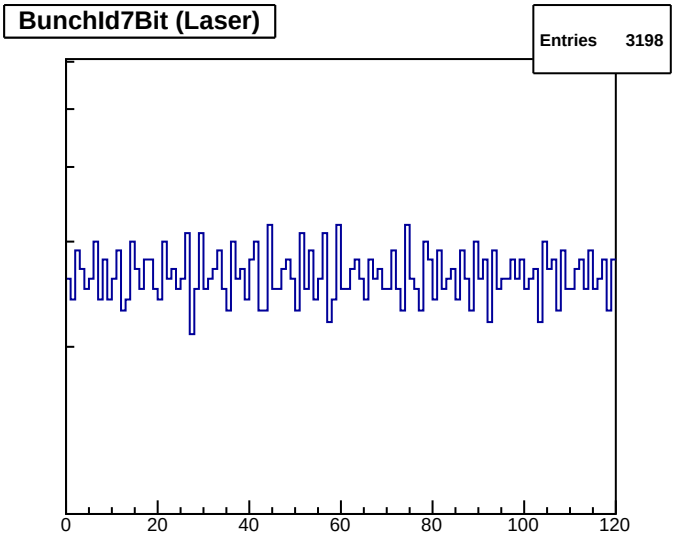
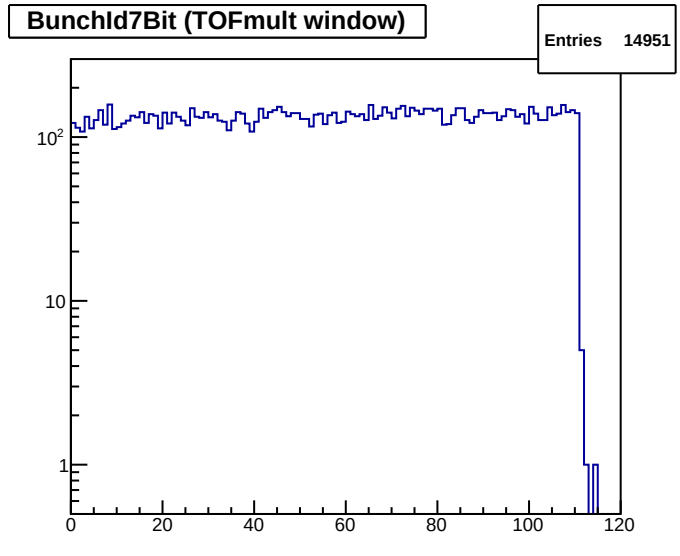

BunchId7Bit (VPD-TAC)
Entries 221905
$10^3$
$10^2$
10
0 20 40 60 80 100 120

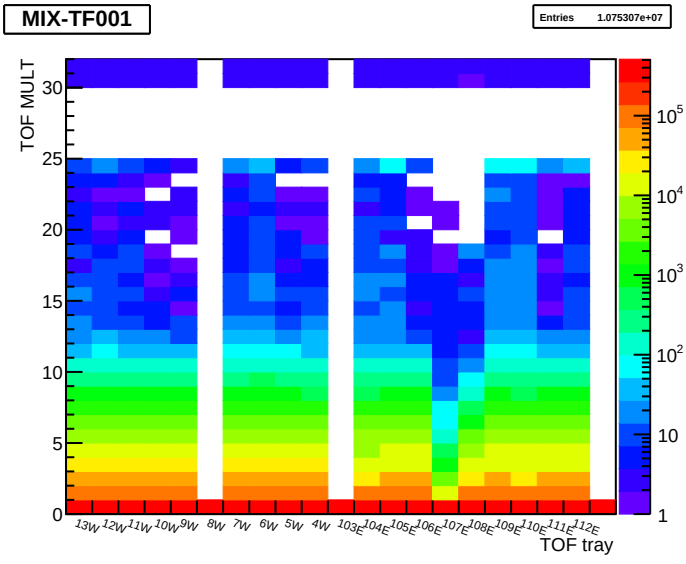

BunchId7Bit (ZDC-TAC)
Entries 828
10
1
0 20 40 60 80 100 120

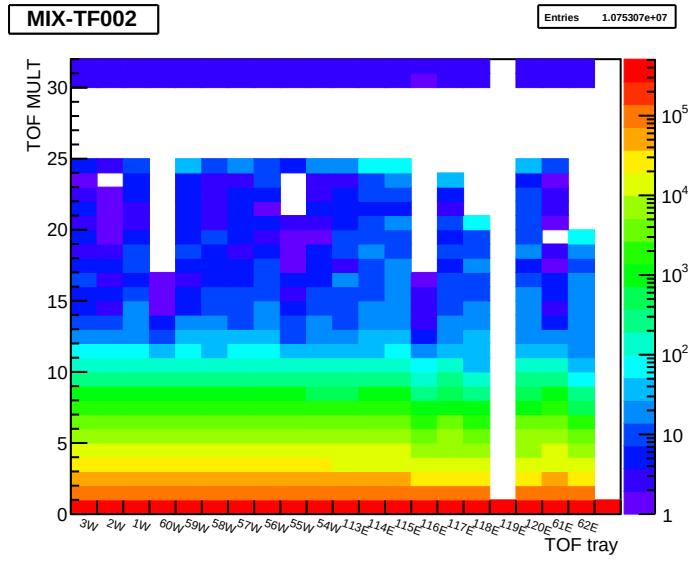

BunchId7Bit (EPD-TAC)
Entries 410016
$10^3$
$10^2$
10
0 20 40 60 80 100 120

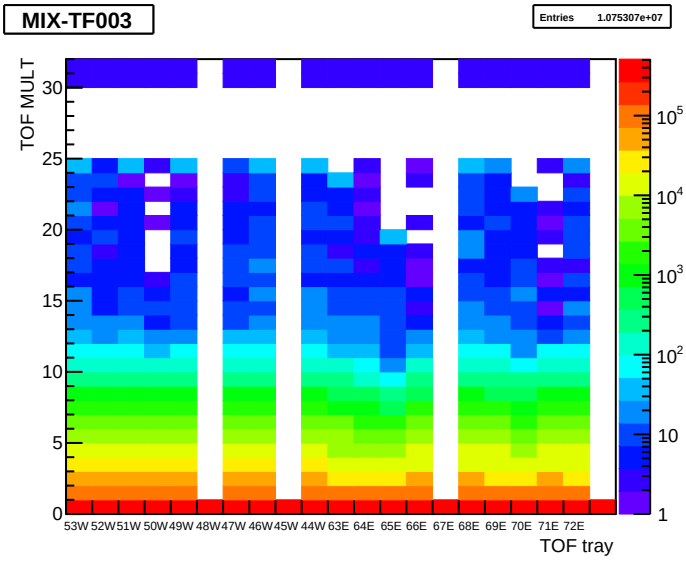

BunchId7Bit (BBC-TAC)
Entries 165582
$10^3$
$10^2$
10
1
0 20 40 60 80 100 120

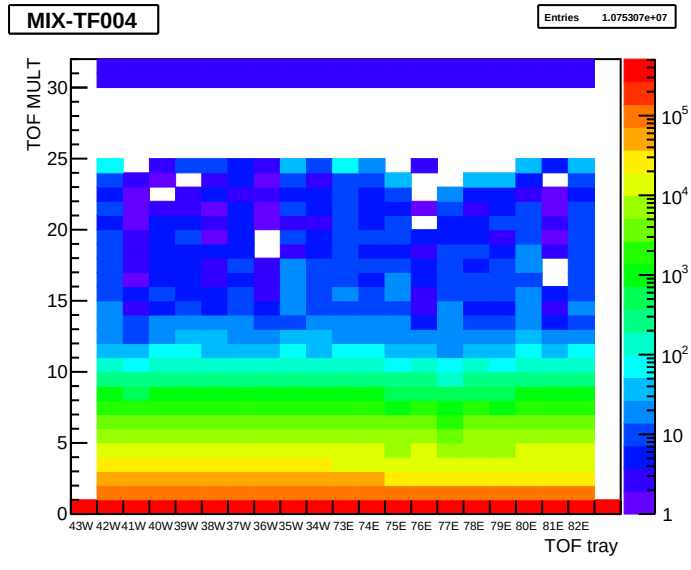

BunchId7Bit (Laser)
Entries 3198
0 20 40 60 80 100 120

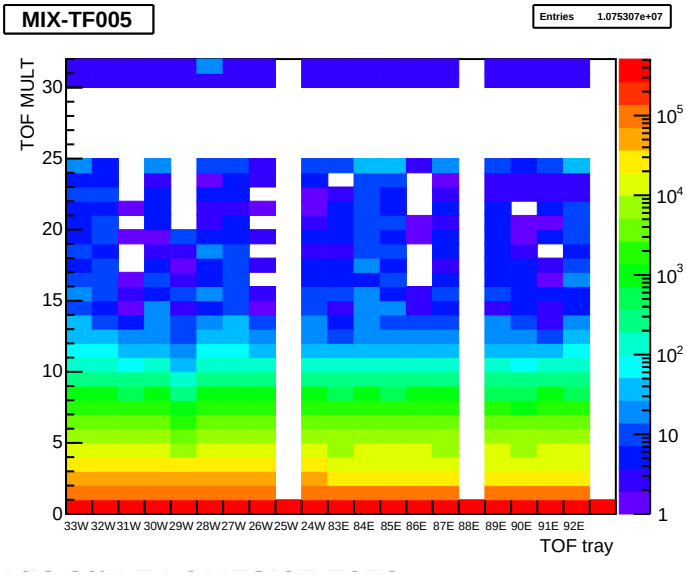

BunchId7Bit (TOFmult window)
Entries 14951
$10^2$
10
1
0 20 40 60 80 100 120

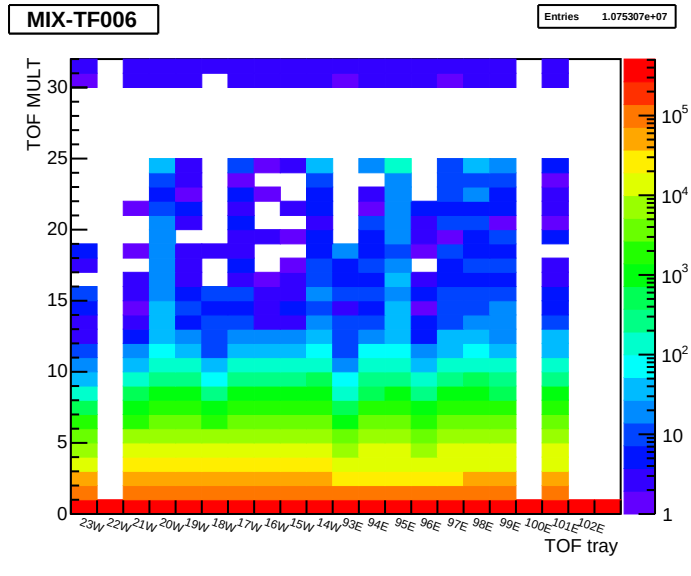

MIX-TF001
Entries 1.075307e+07
TOF MULT
TOF tray

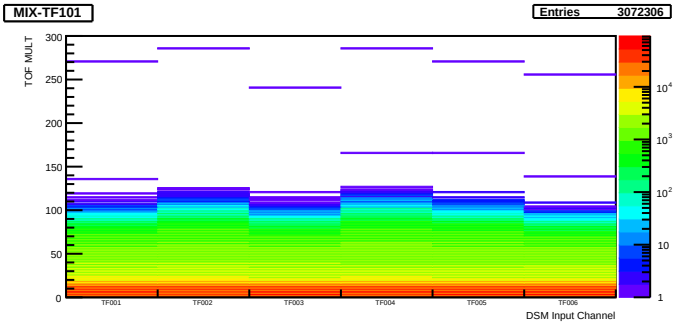

MIX-TF002
Entries 1.075307e+07
TOF MULT
TOF tray

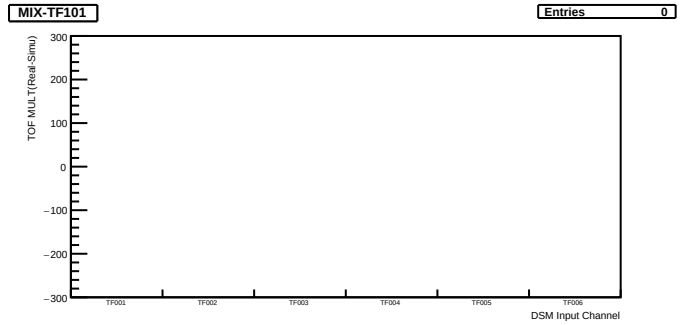

MIX-TF003
Entries 1.075307e+07
TOF MULT
TOF tray

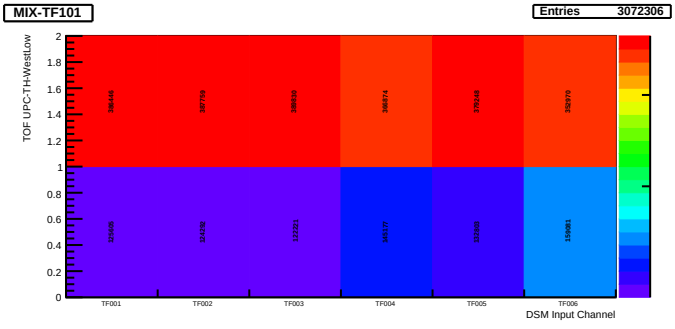

MIX-TF004
Entries 1.075307e+07
TOF MULT
TOF tray

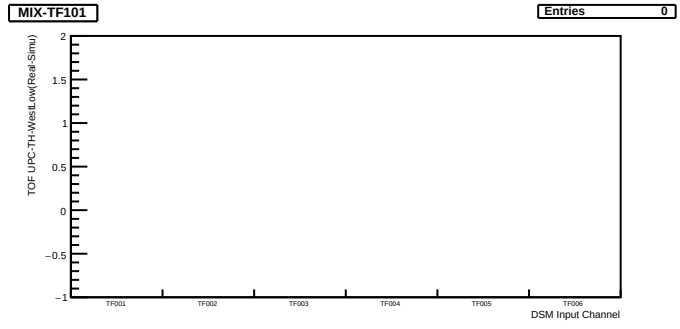

MIX-TF005
Entries 1.075307e+07
TOF MULT
TOF tray

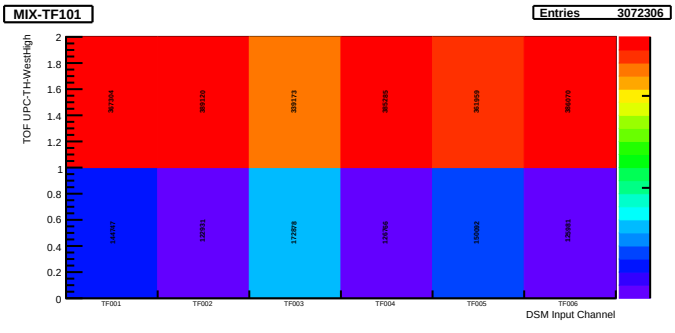

MIX-TF006
Entries 1.075307e+07
TOF MULT
TOF tray

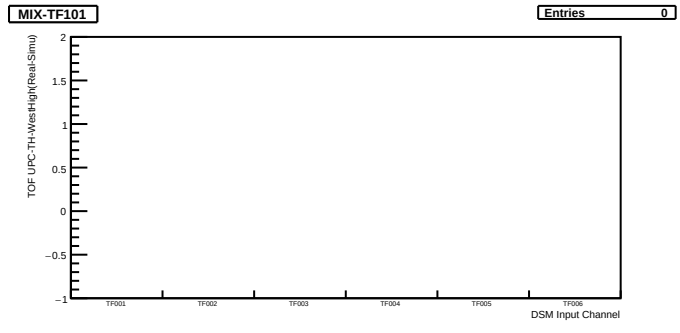

MIX-TF101
Entries 3072306
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

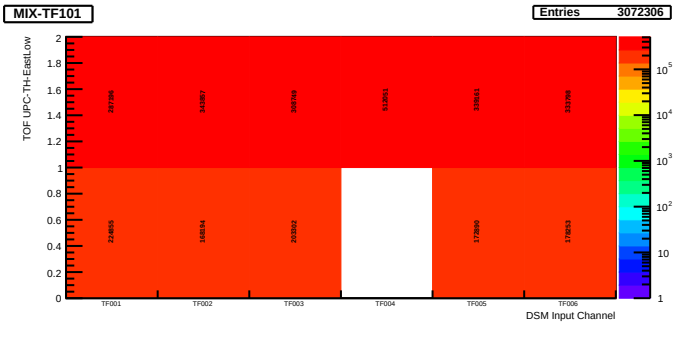

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

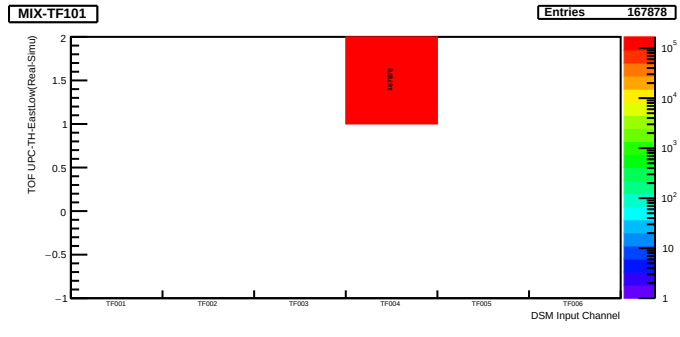

MIX-TF101
Entries 3072306
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

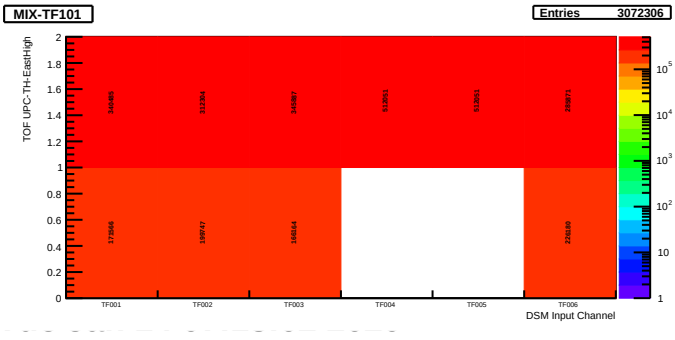

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

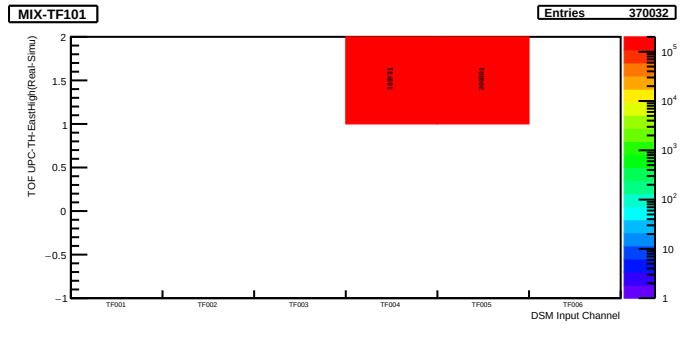

MIX-TF101
Entries 3072306
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

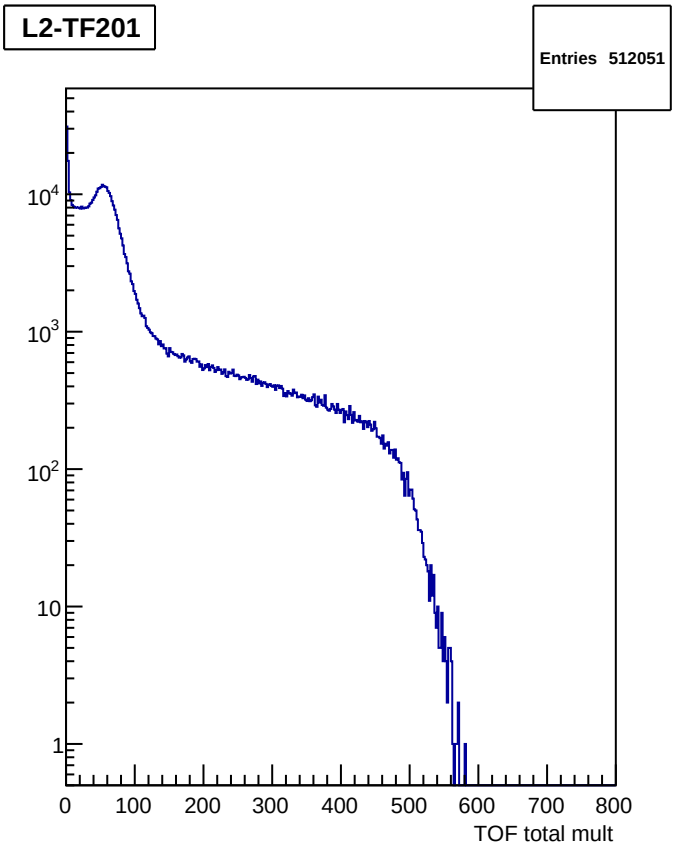

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

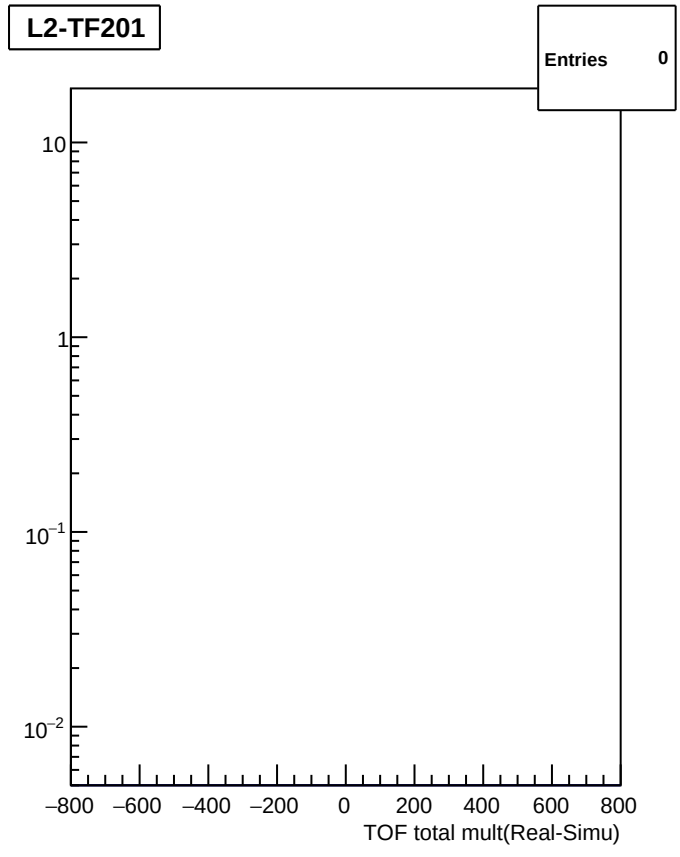

MIX-TF101
Entries 3072306
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

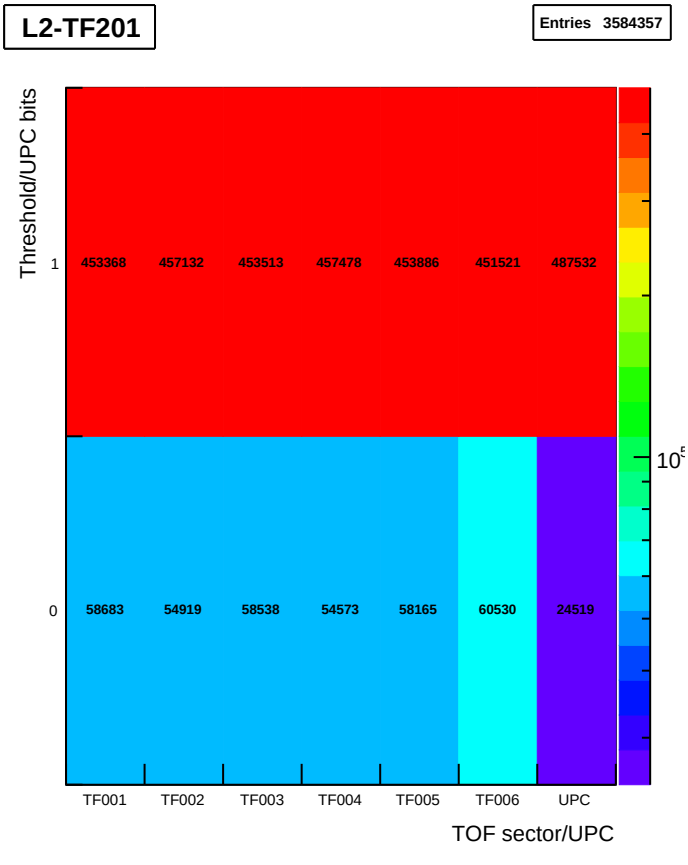

MIX-TF101
Entries 167878
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

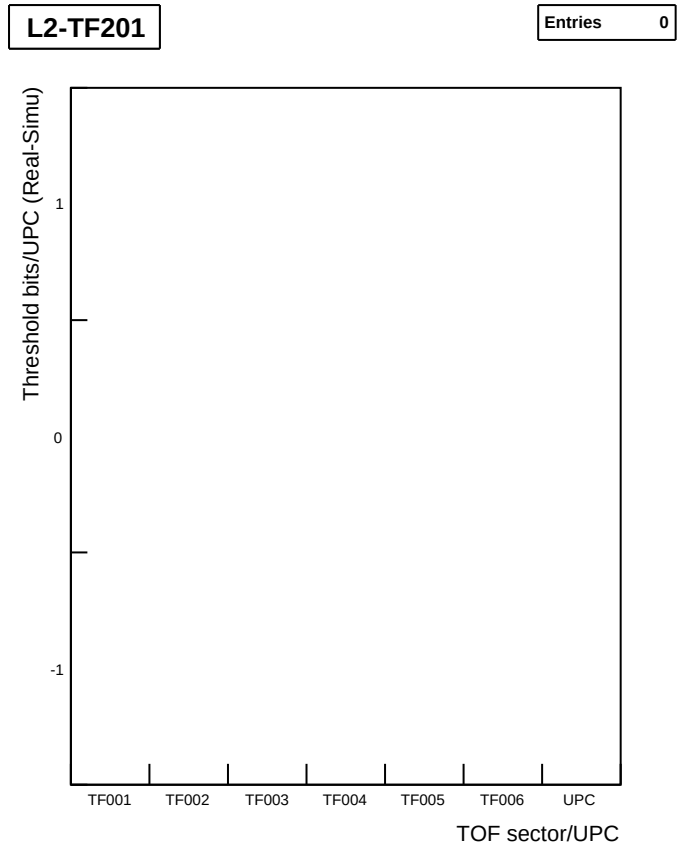

MIX-TF101
Entries 3072306
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

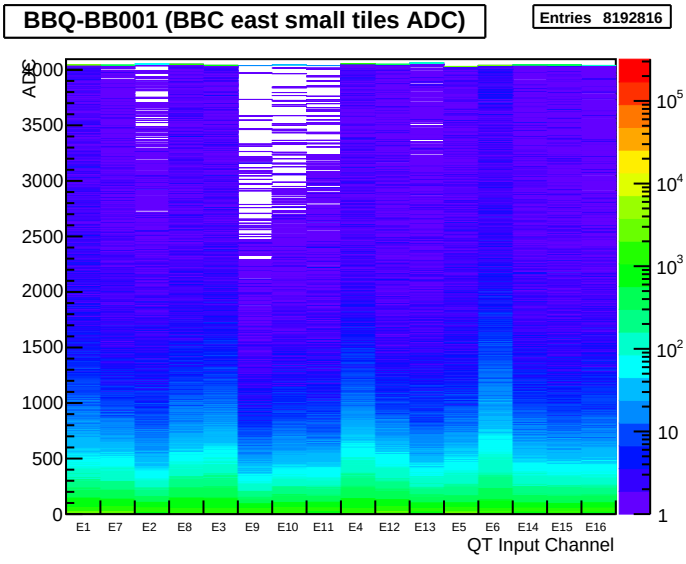

MIX-TF101
Entries 370032
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

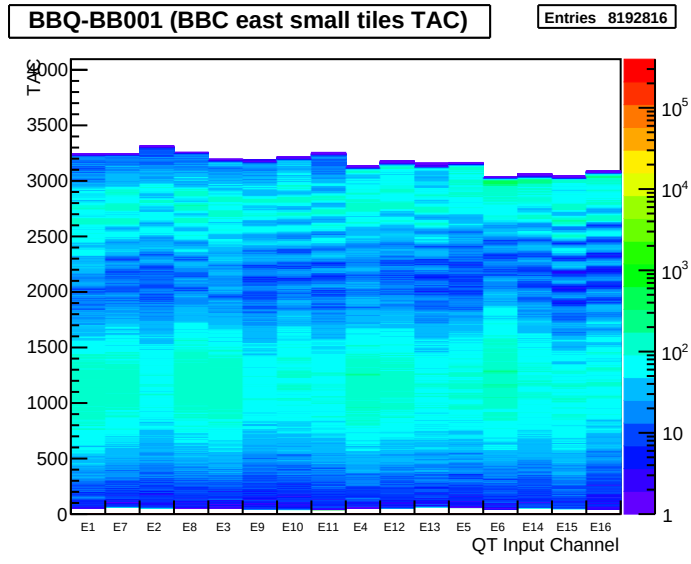

L2-TF201
Entries 512051
TOF total mult

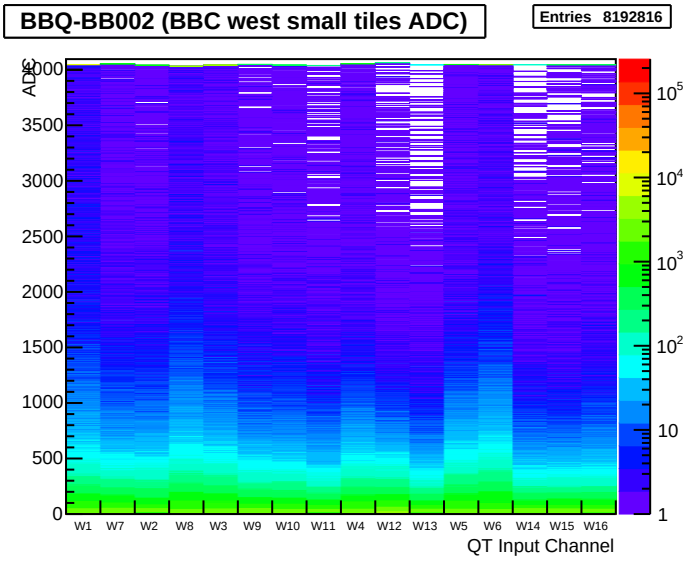

L2-TF201
Entries 0
TOF total mult(Real-Simu)

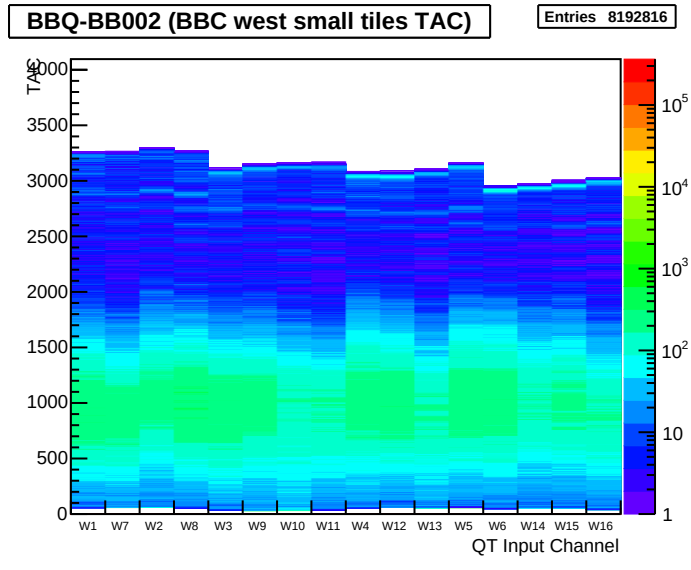

L2-TF201
Entries 3584357
Threshold/UPC bits
453368
457132
453513
457478
453886
451521
487532
58683
54919
58538
54573
58165
60530
24519
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

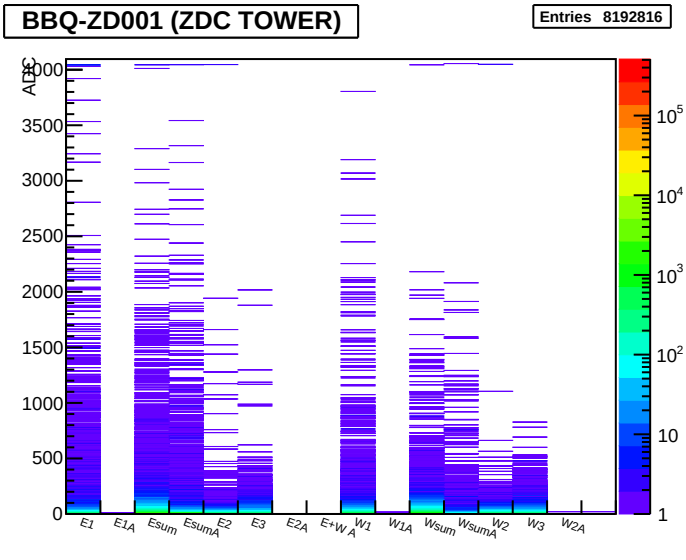

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

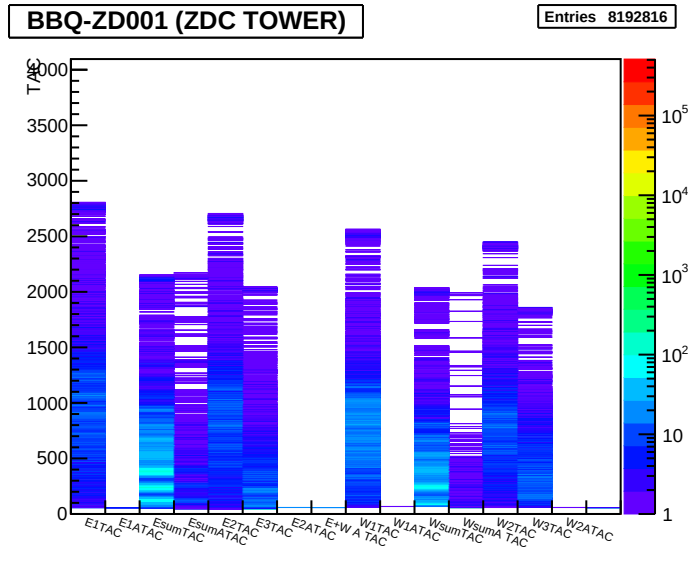

BBQ-BB001 (BBC east small tiles ADC)
Entries 8192816
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

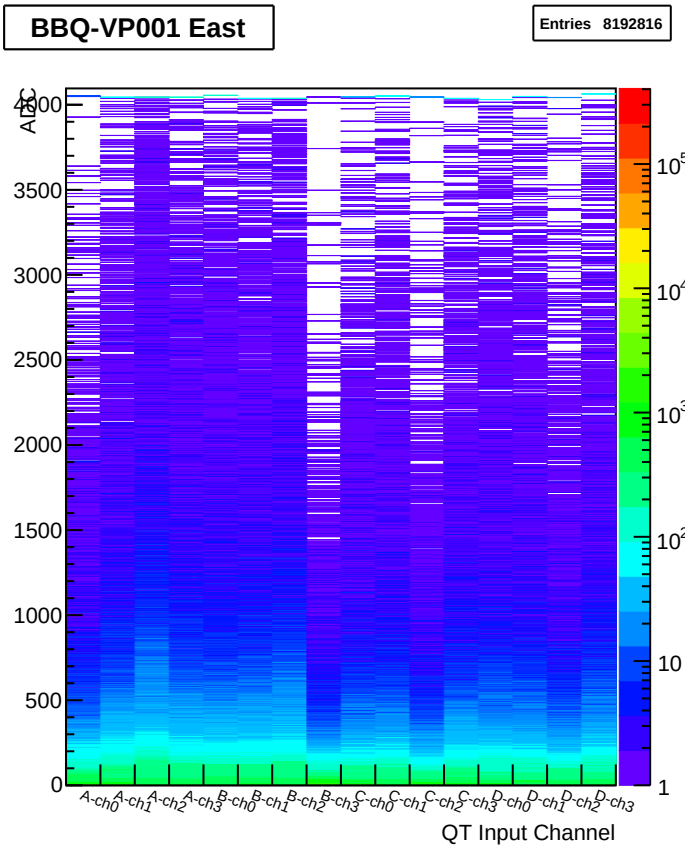

BBQ-BB001 (BBC east small tiles TAC)
Entries 8192816
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

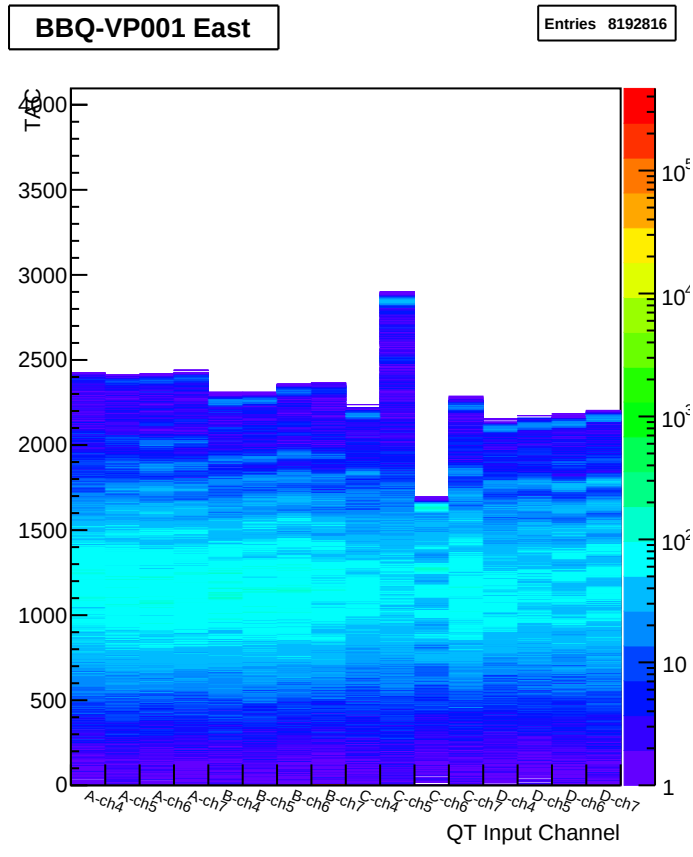

BBQ-BB002 (BBC west small tiles ADC)
Entries 8192816
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

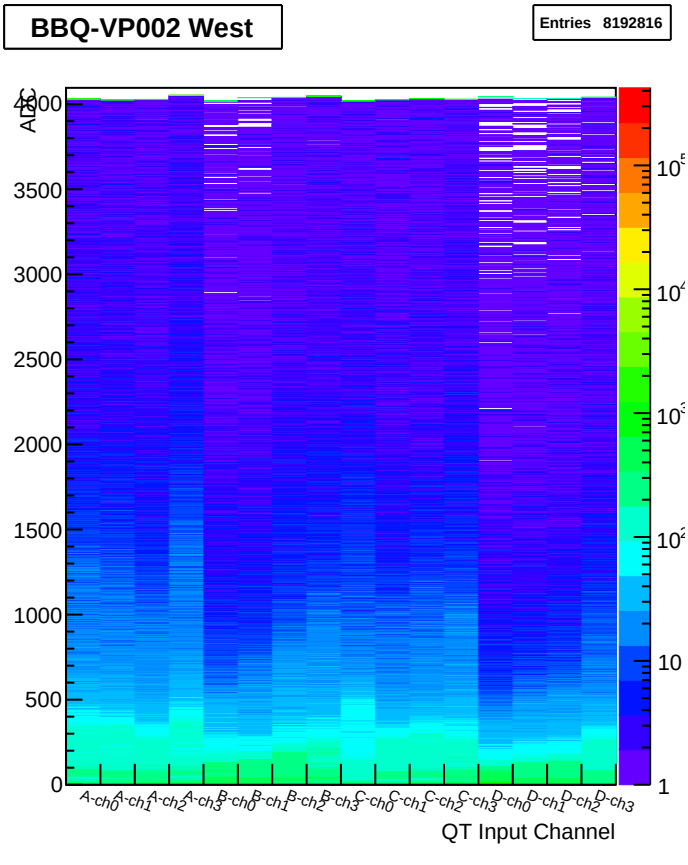

BBQ-BB002 (BBC west small tiles TAC)
Entries 8192816
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

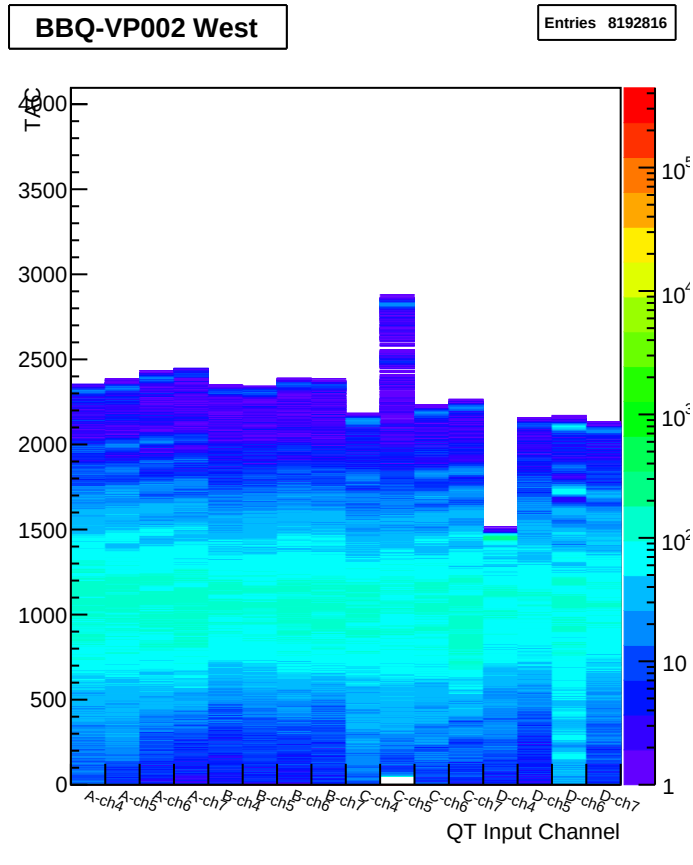

BBQ-ZD001 (ZDC TOWER)
Entries 8192816
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

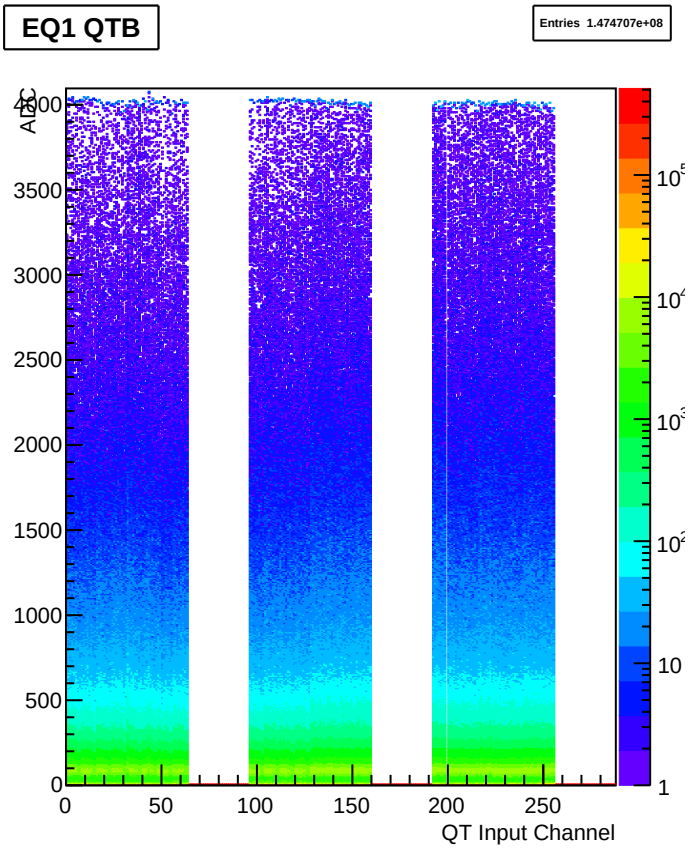

BBQ-ZD001 (ZDC TOWER)
Entries 8192816
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

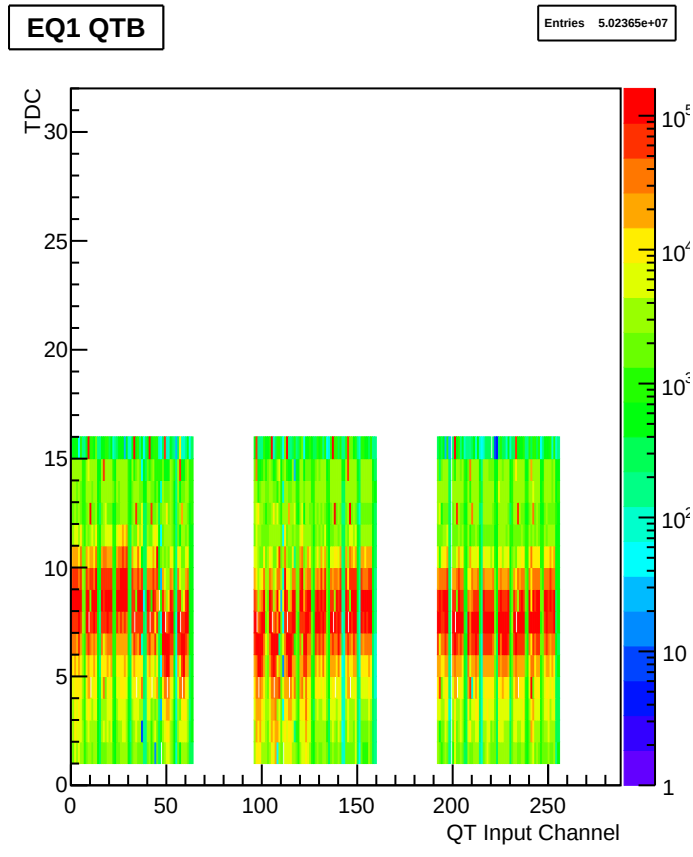

BBQ-VP001 East
Entries 8192816
ADC
QT Input Channel

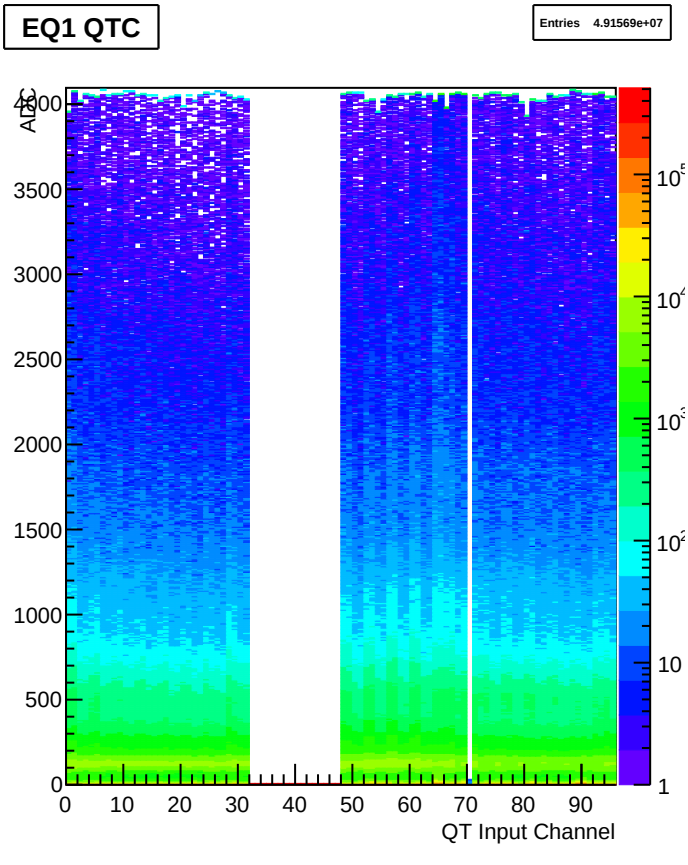

BBQ-VP001 East
Entries 8192816
ADC
QT Input Channel

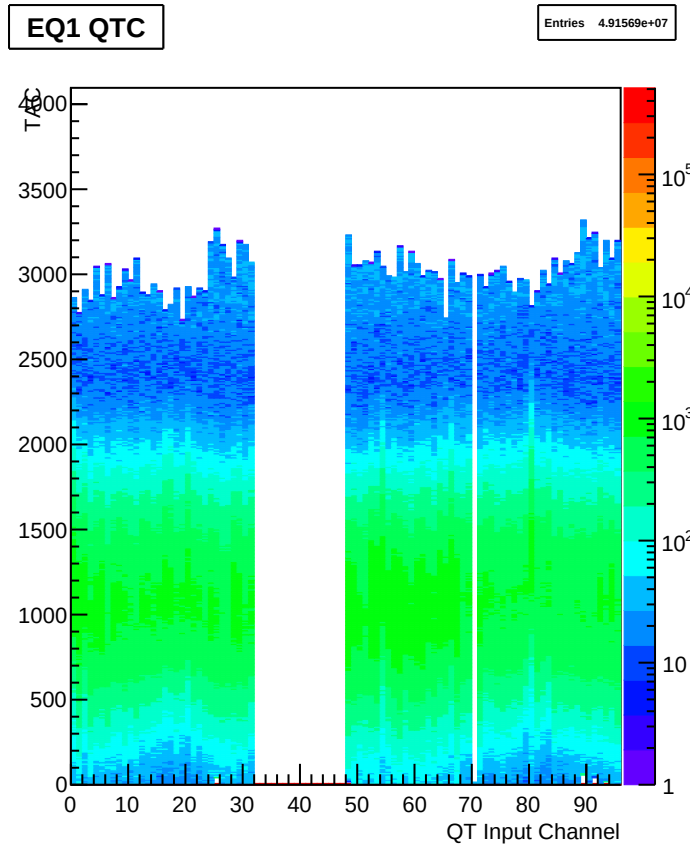

BBQ-VP002 West
Entries 8192816
ADC
QT Input Channel

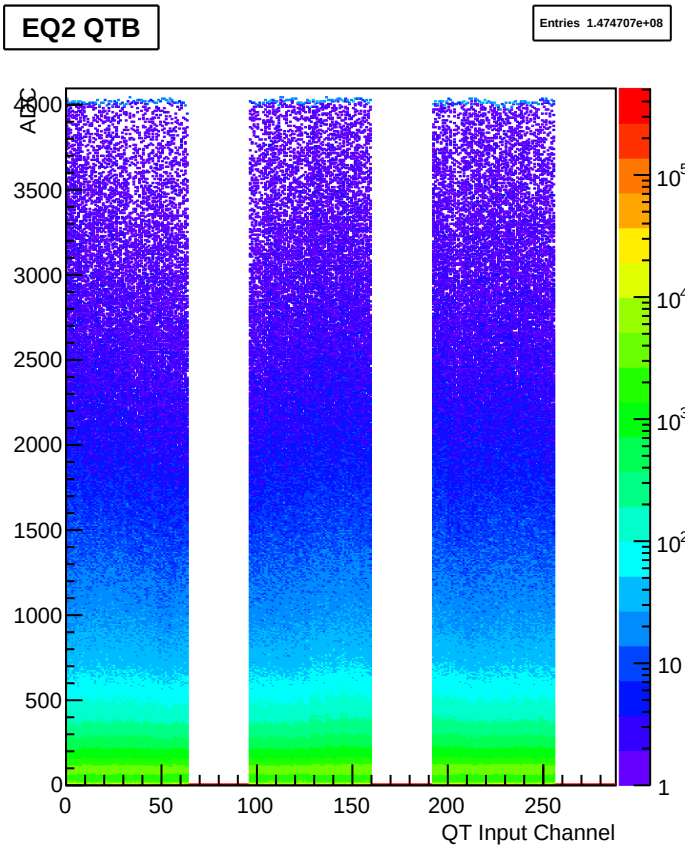

BBQ-VP002 West
Entries 8192816
ADC
QT Input Channel

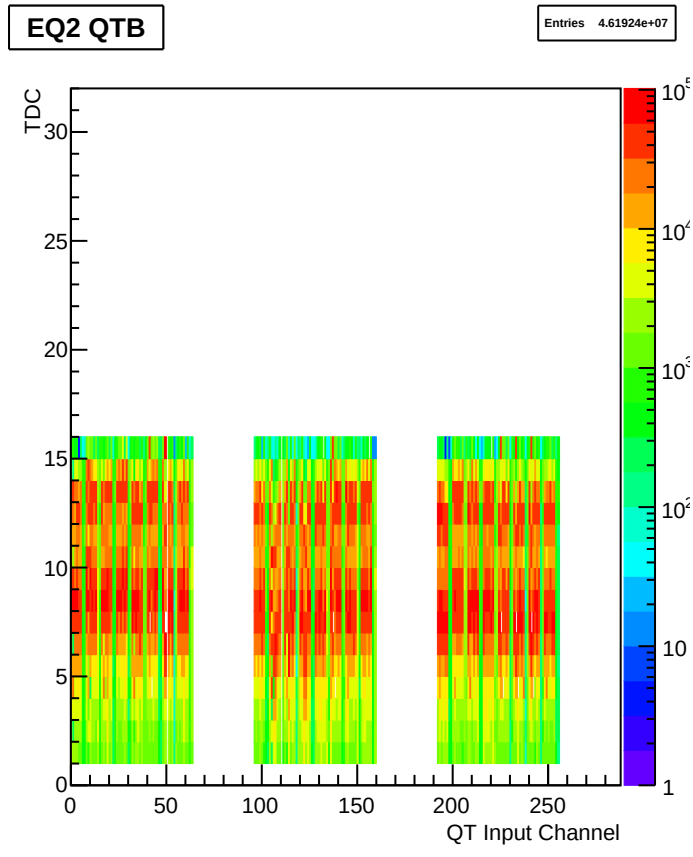

EQ1 QTB
Entries 1.474707e+08
ADC
QT Input Channel

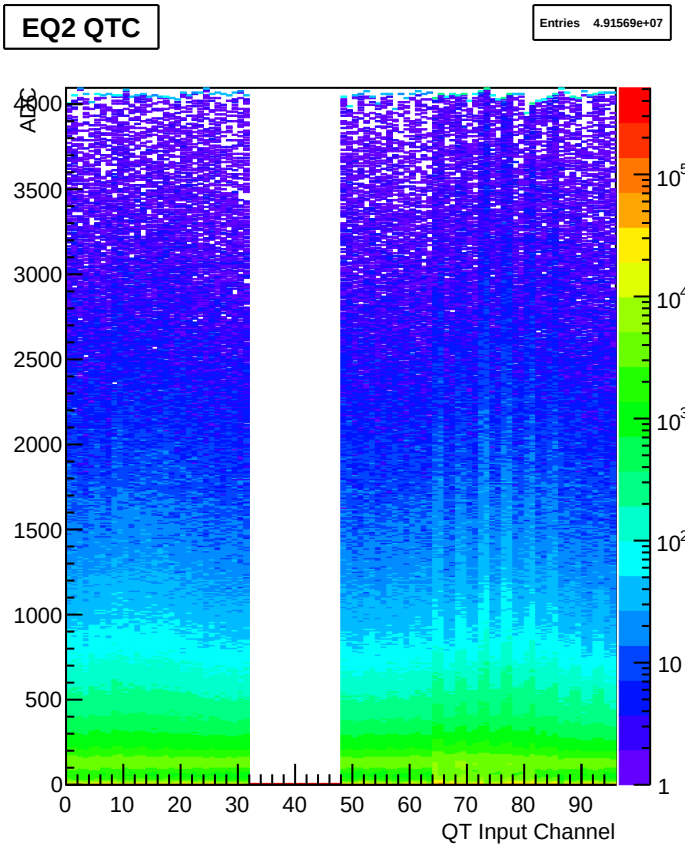

EQ1 QTB
Entries 5.02365e+07
TDC
QT Input Channel

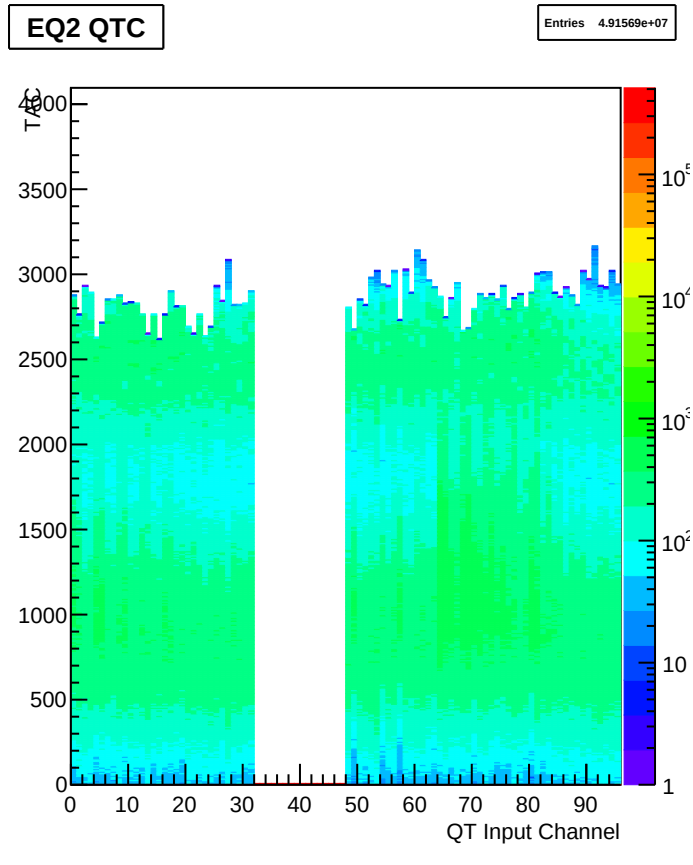

EQ1 QTC
Entries 4.91569e+07
ADC
QT Input Channel

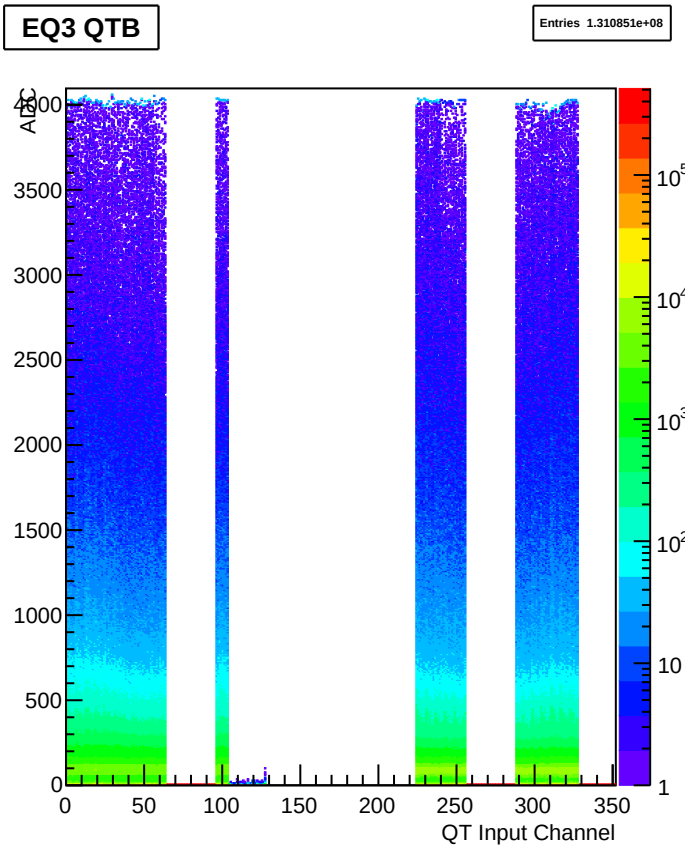

EQ1 QTC
Entries 4.91569e+07
TADC
QT Input Channel

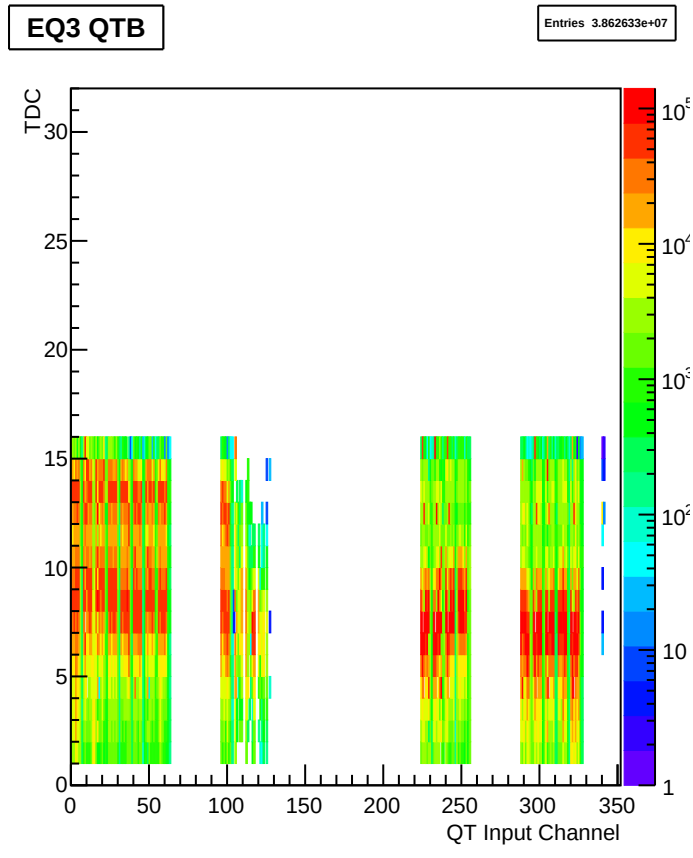

EQ2 QTB
Entries 1.474707e+08
ADC
QT Input Channel

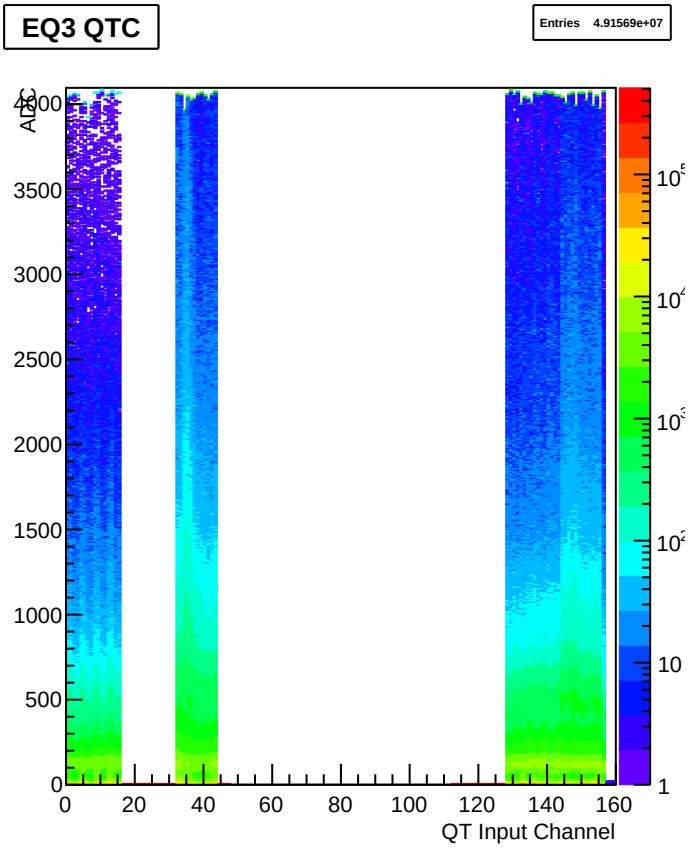

EQ2 QTB
Entries 4.61924e+07
TDC
QT Input Channel

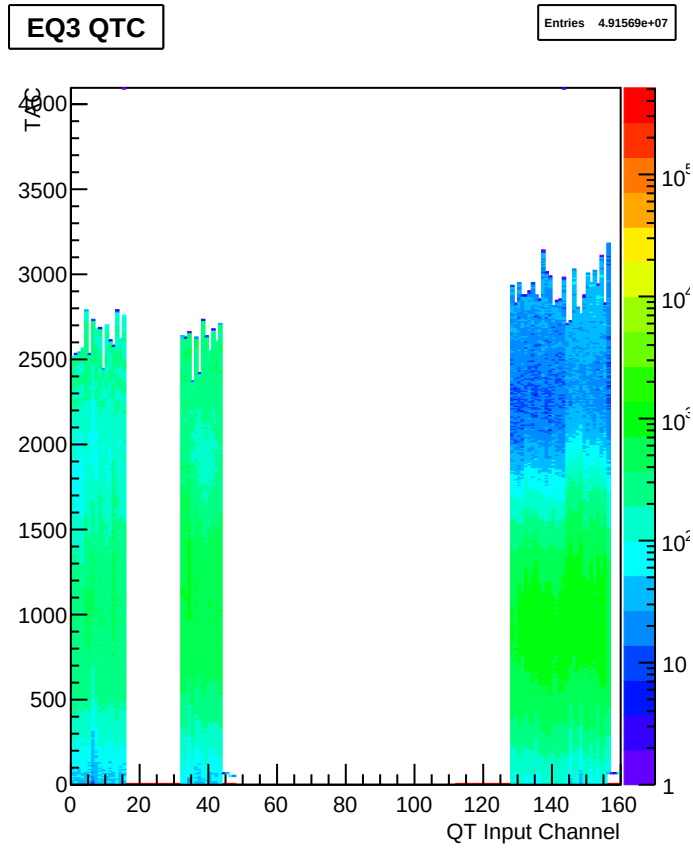

EQ2 QTC
Entries 4.91569e+07
ADC
QT Input Channel

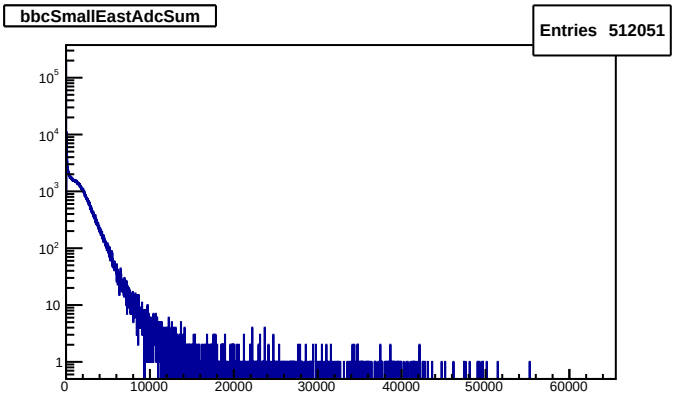

EQ2 QTC
Entries 4.91569e+07
TADC
QT Input Channel

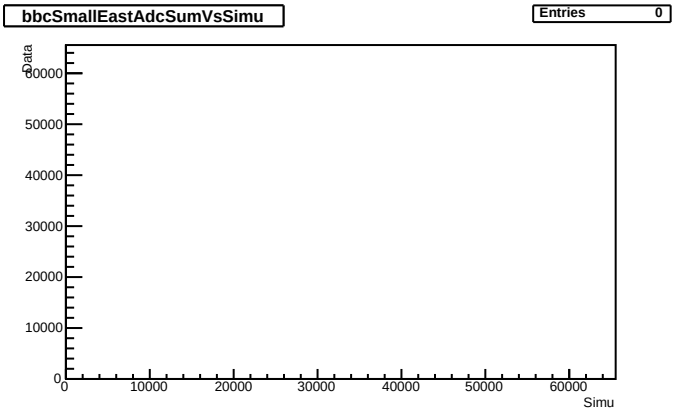

EQ3 QTB
Entries 1.310851e+08
ADC
QT Input Channel

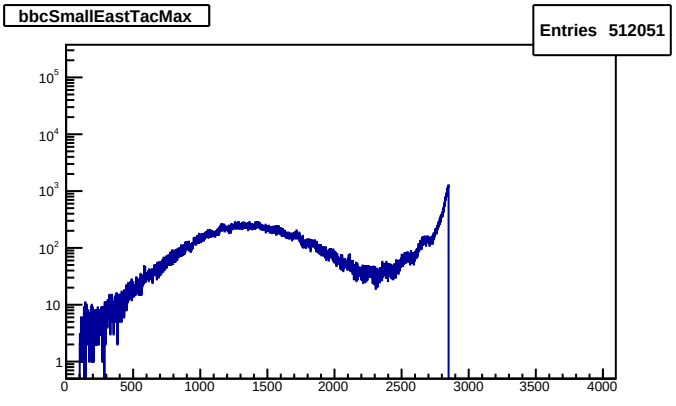

EQ3 QTB
Entries 3.862633e+07
TDC
QT Input Channel

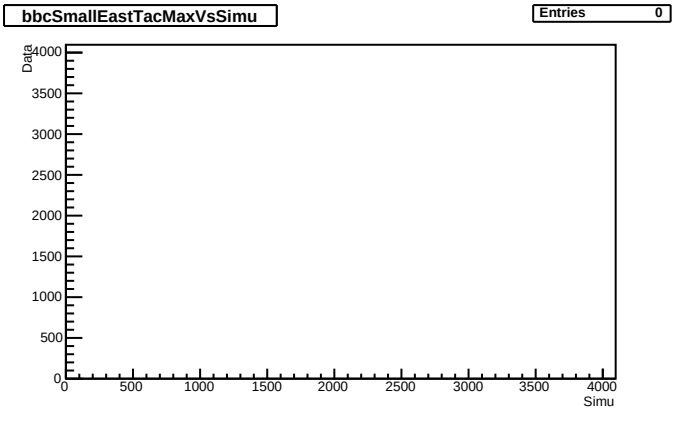

EQ3 QTC
Entries 4.91569e+07
ADC
QT Input Channel


EQ3 QTC
Entries 4.91569e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 512051


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 512051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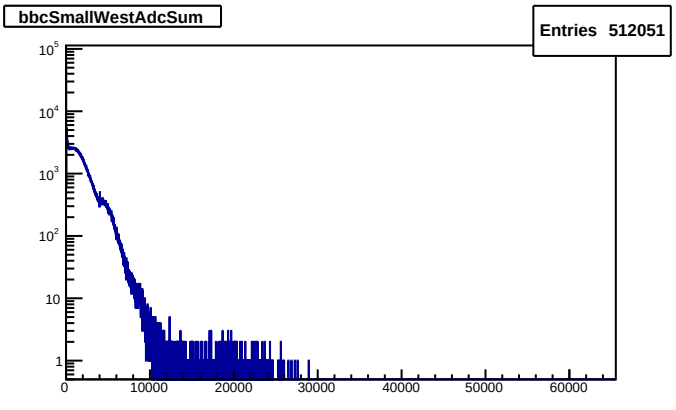
Entries 0
Data
Simu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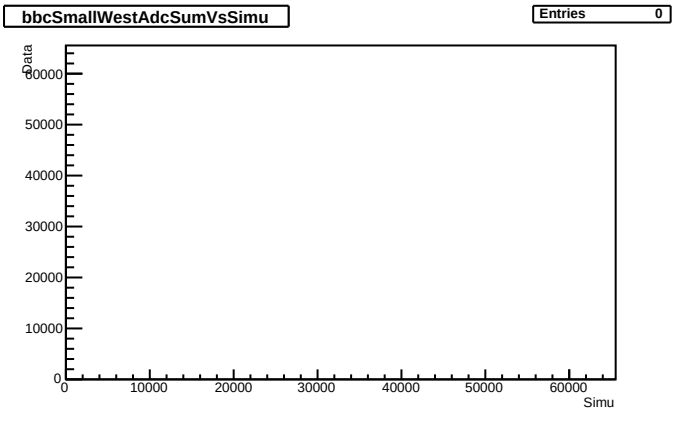
Entries 512051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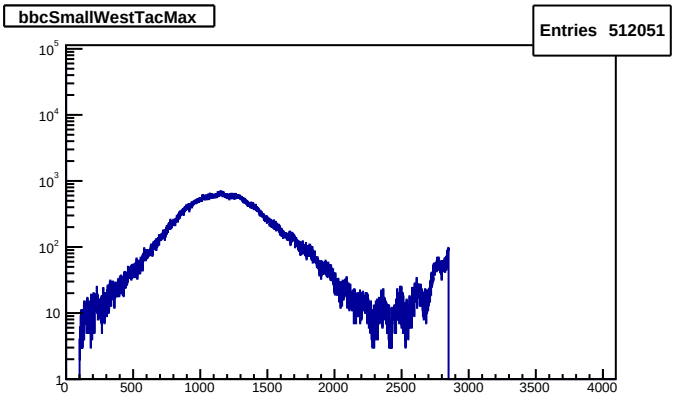
Entries 0
Data
Simu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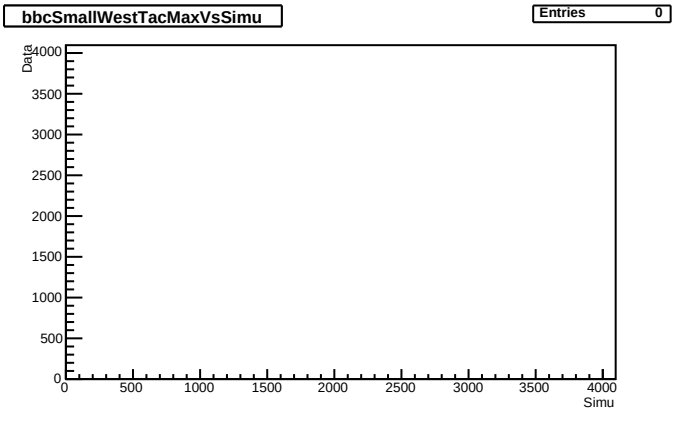
Entries 512051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Entries 0
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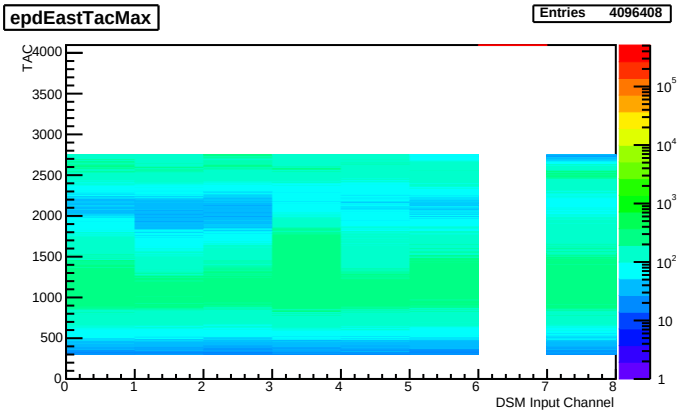
Simu


epdEastTacMax
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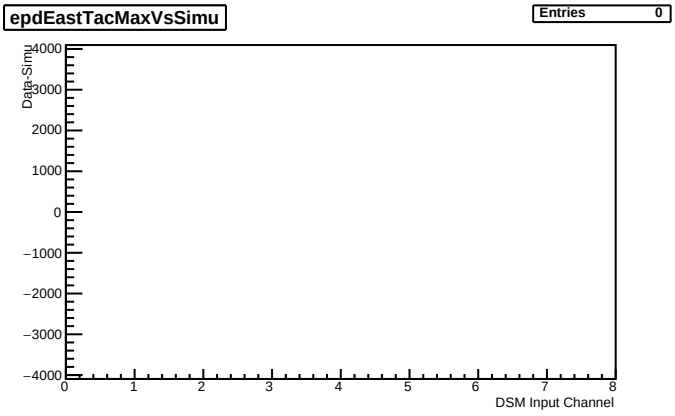
TAC
DSM Input Channel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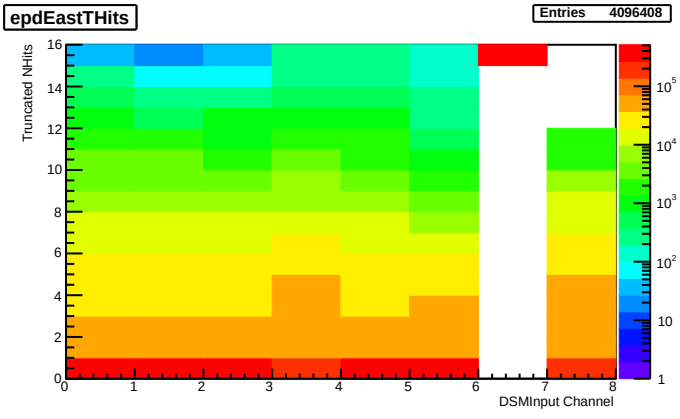
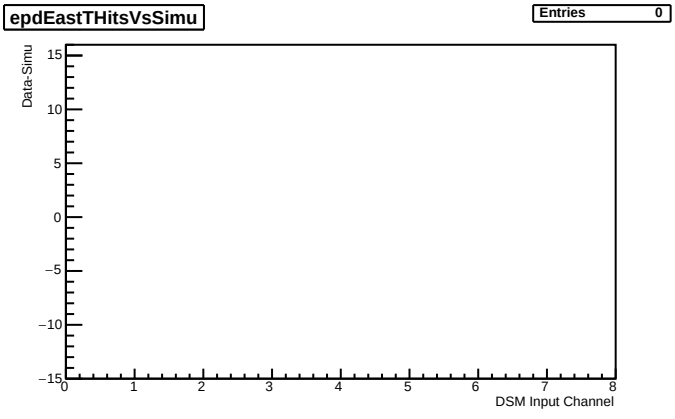
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 4096408
Truncated NHits
DSMInput Channel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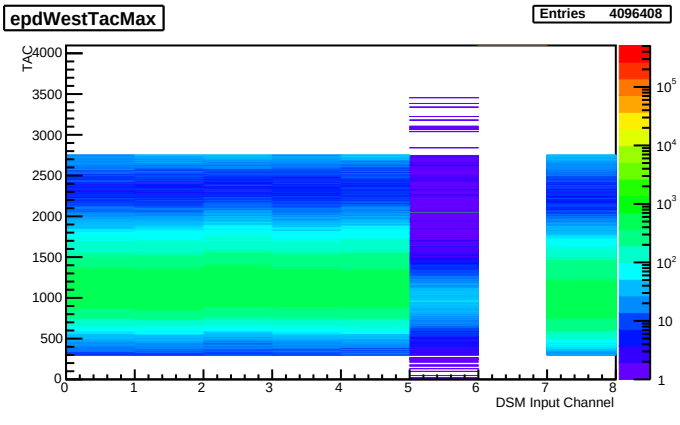
DSM Input Channel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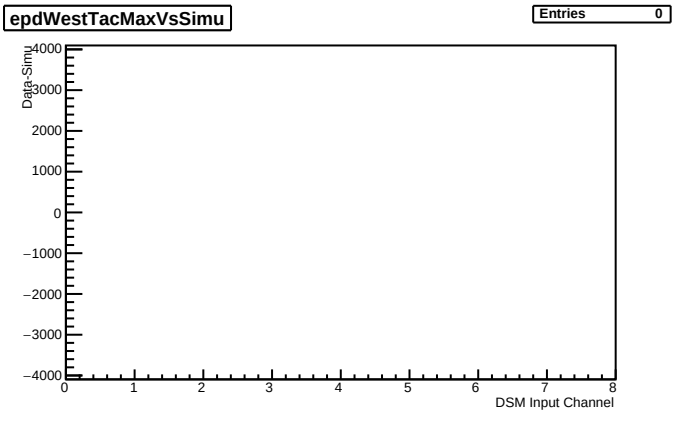
TAC
DSM Input Channel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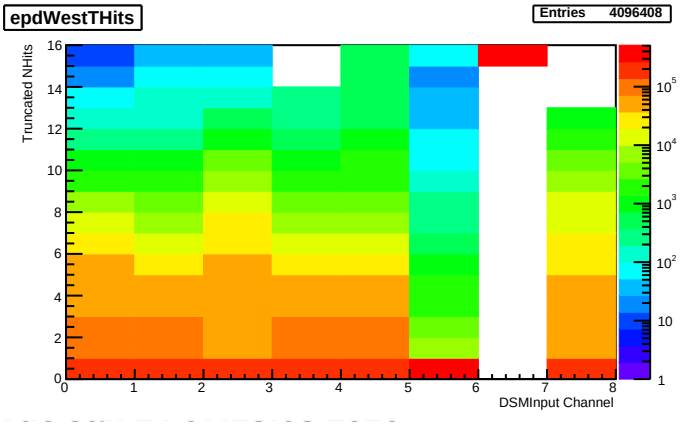
Entries 0
Data-Simu
DSM Input Channel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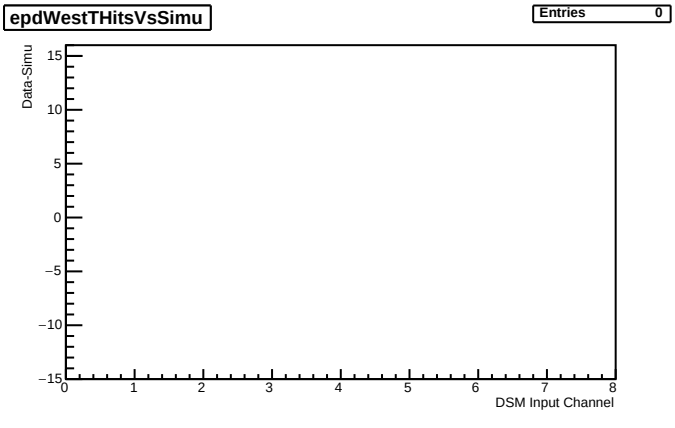
Entries 4096408
Truncated NHits
DSMInput Channel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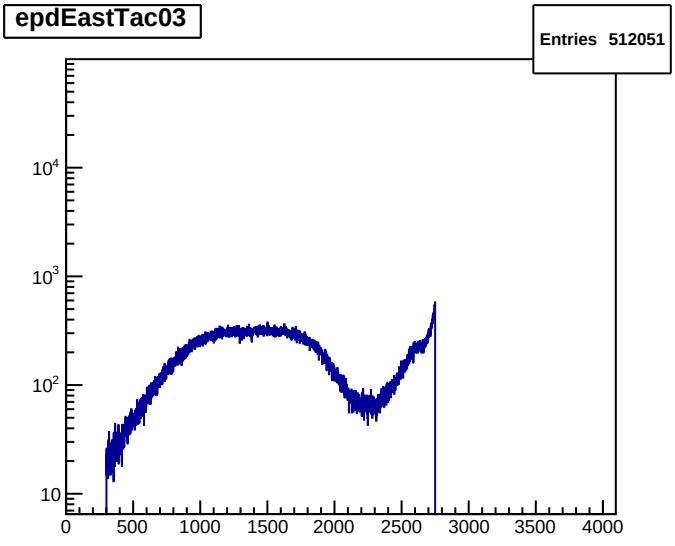
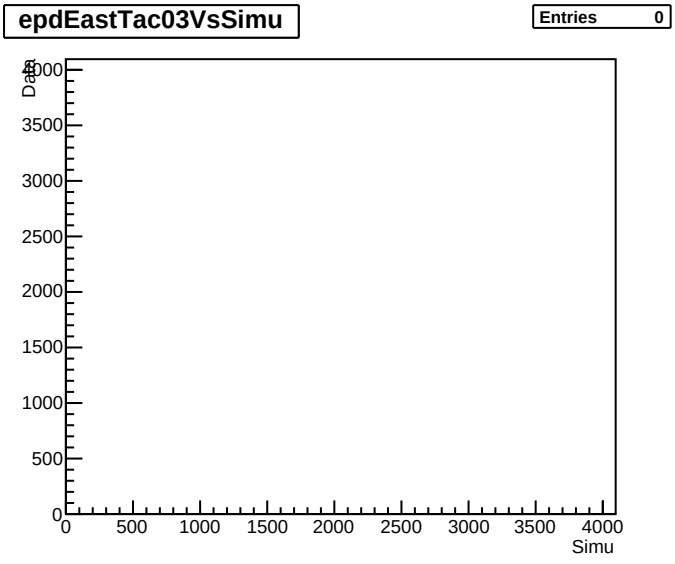
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 512051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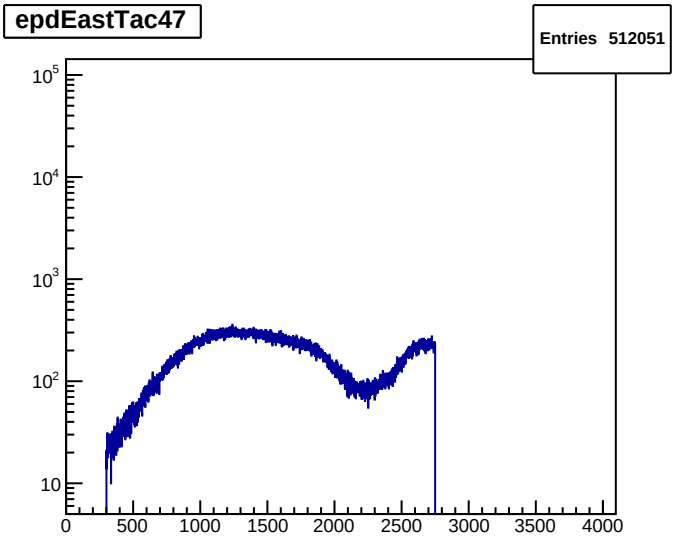
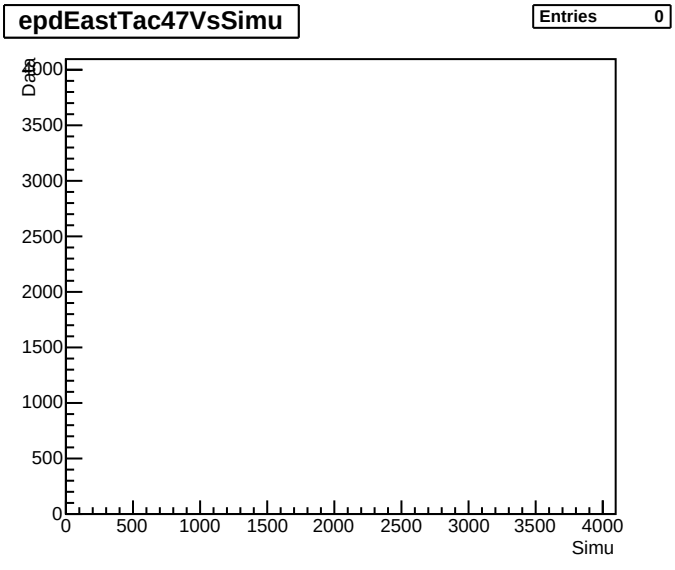
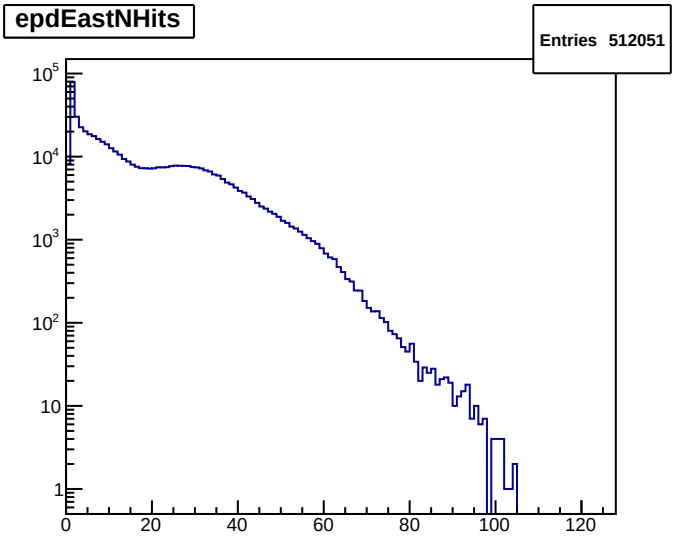
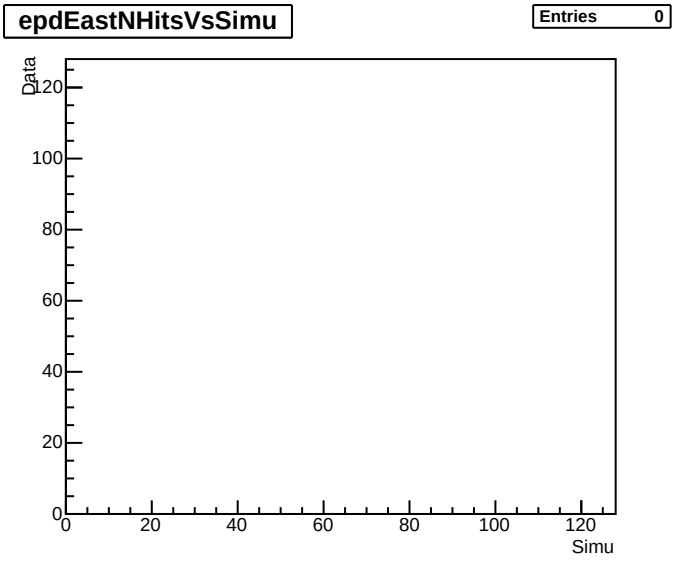
Entries 0
Data
Simu


epdEastTac47
Entries 512051


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 512051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Data
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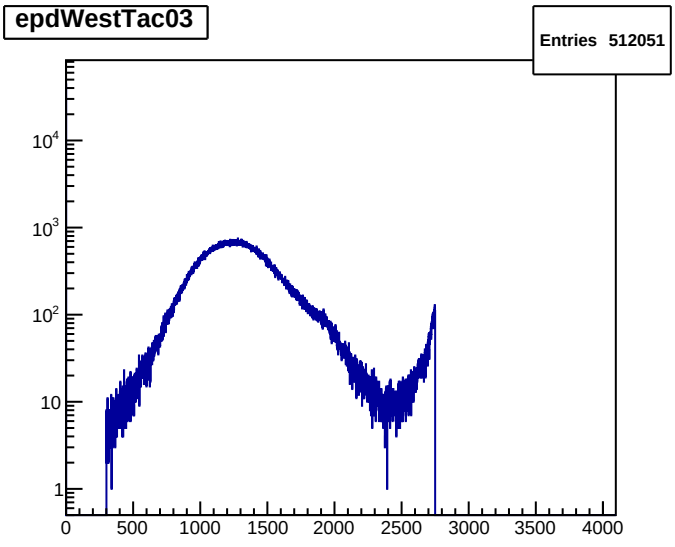
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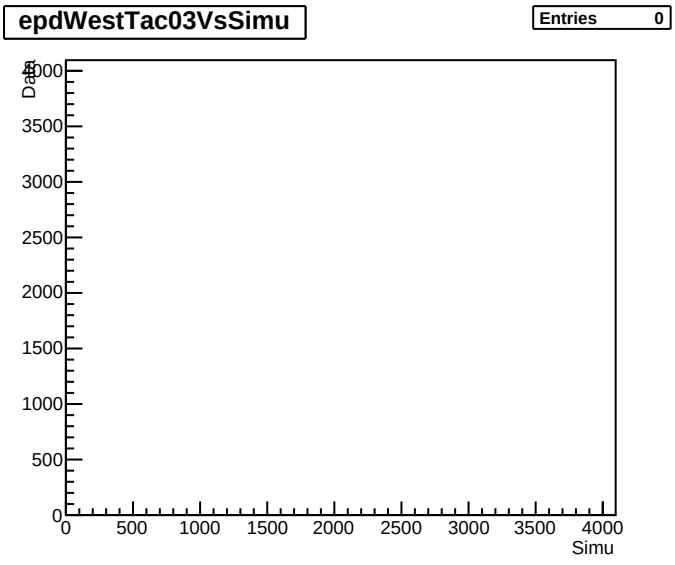
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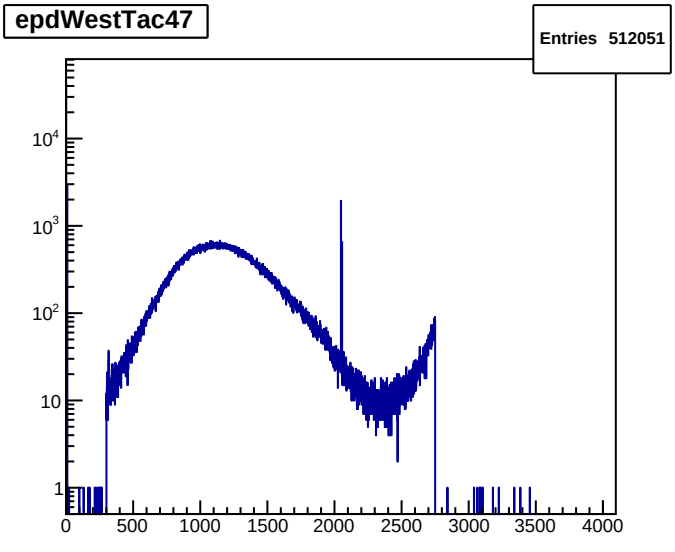
Simu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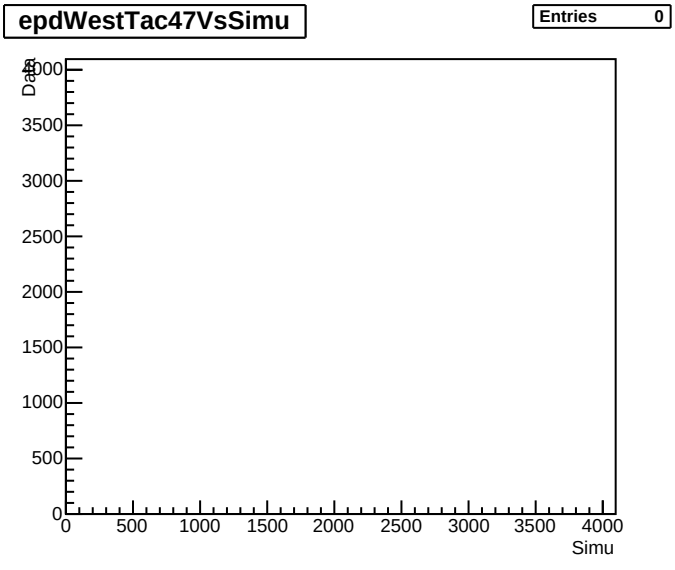
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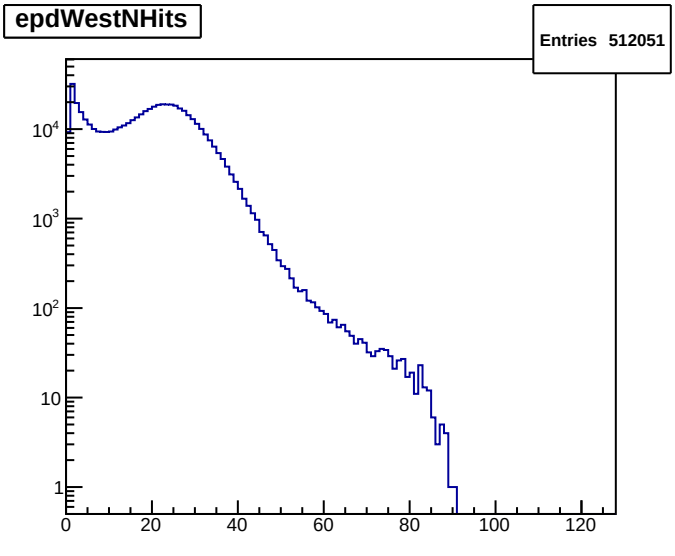
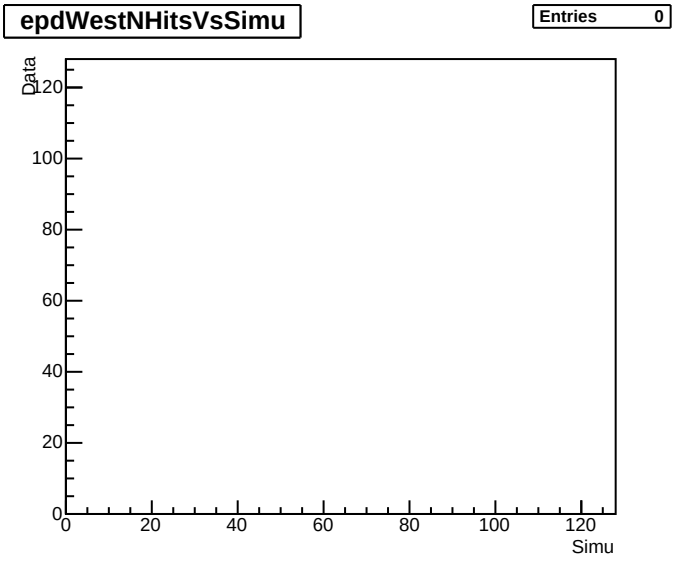
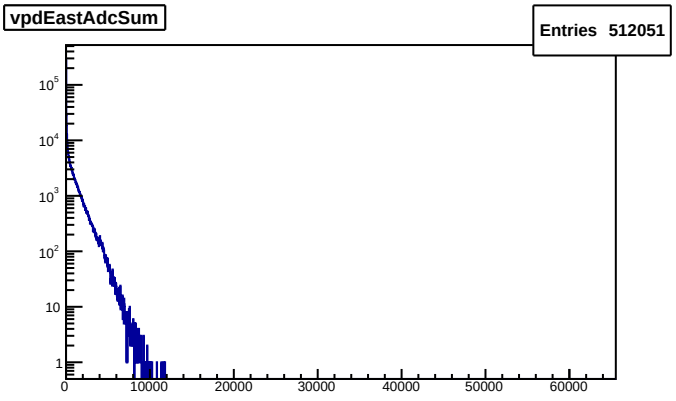
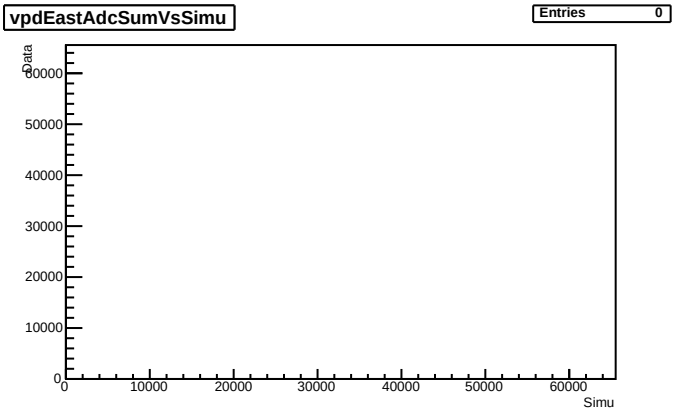
Entries 0
Data
Simu


epdWestNHits
Entries 512051


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 512051


vpdEastAdcSumVsSimu
Entries 0
Data
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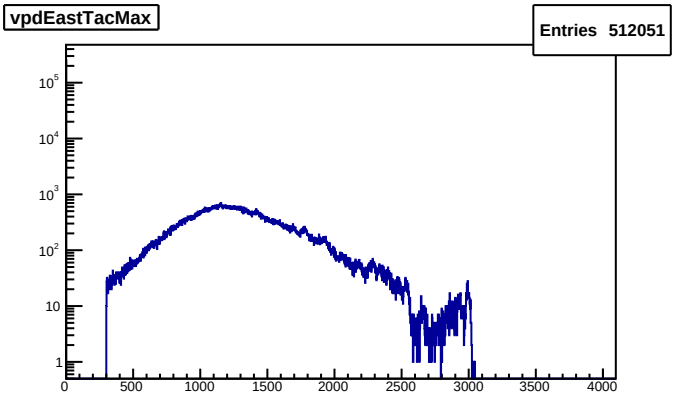
vpdEastTacMax
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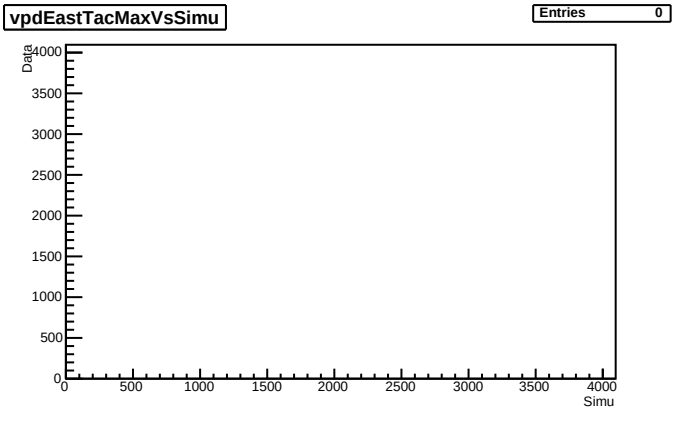
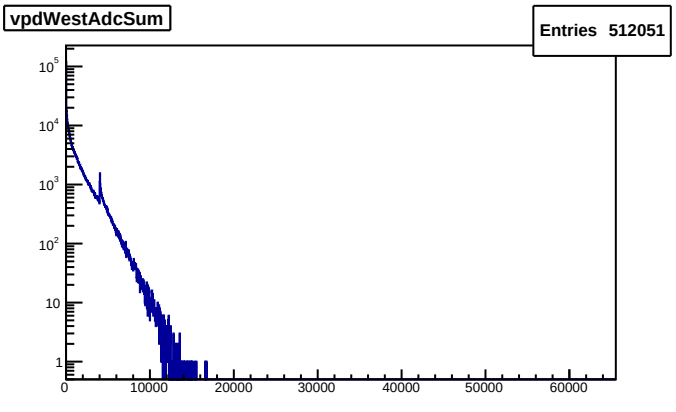
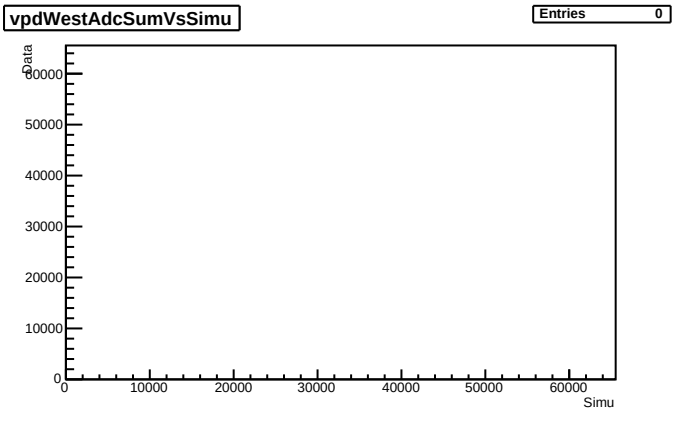

vpdEastTacMaxVsSimu
Entries 0
Data
Simu


vpdWestAdcSum
Entries 512051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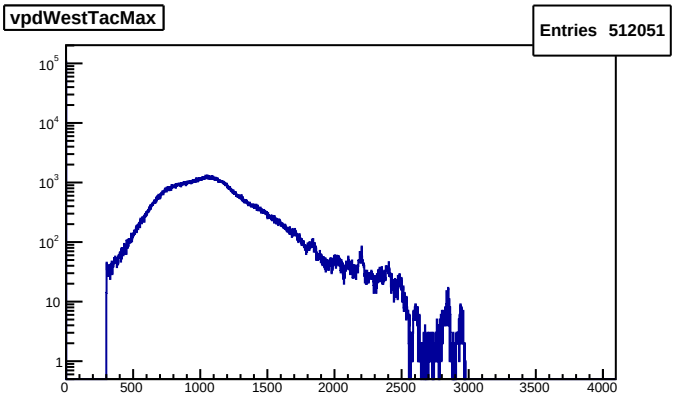
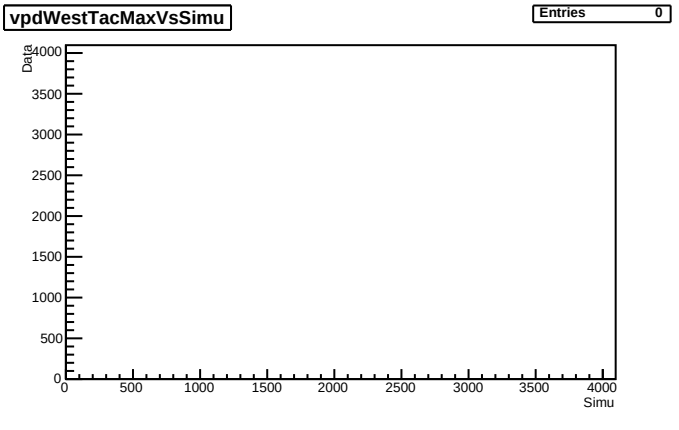
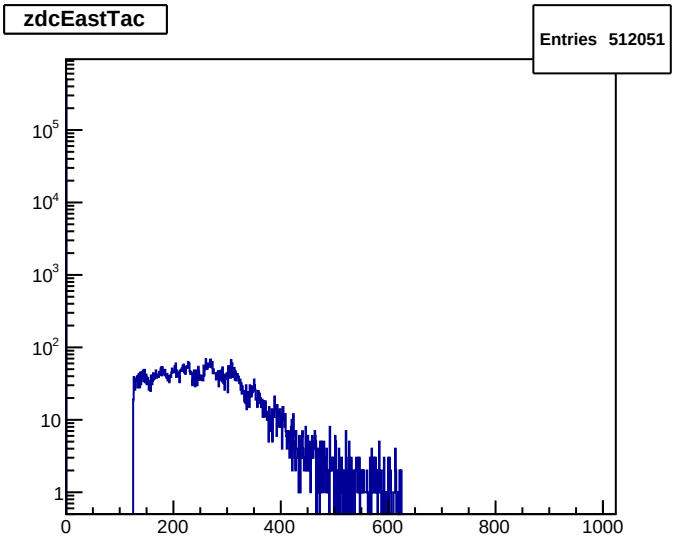
Data
Simu


vpdWestTacMax
Entries 512051


vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 512051
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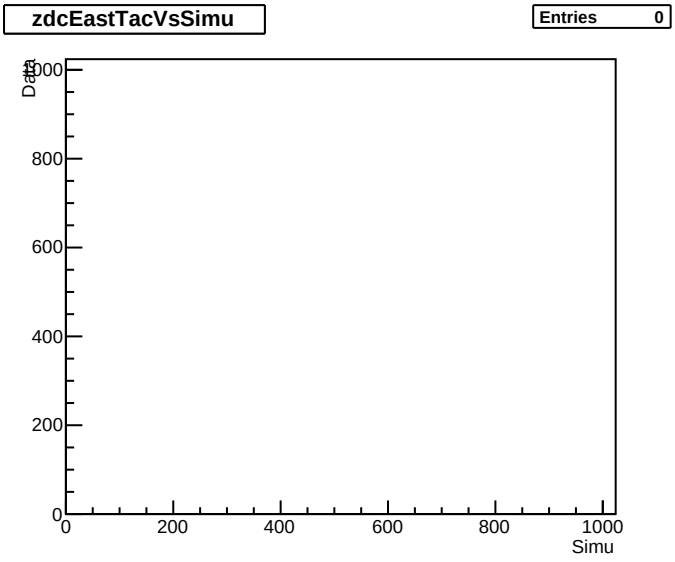
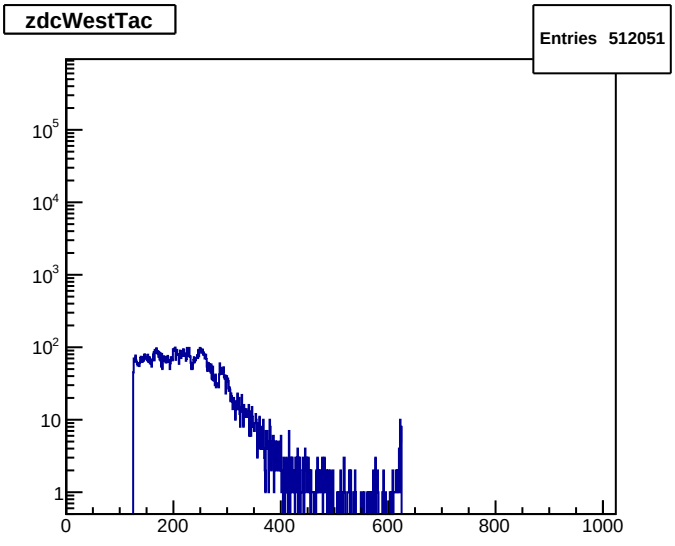
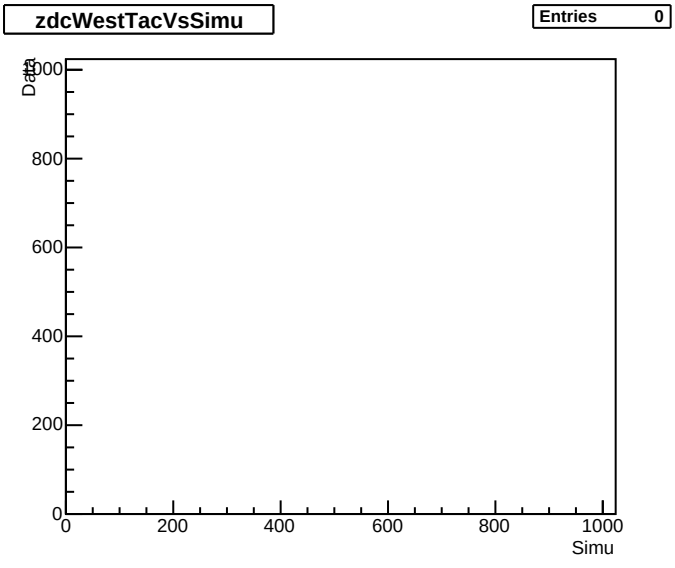
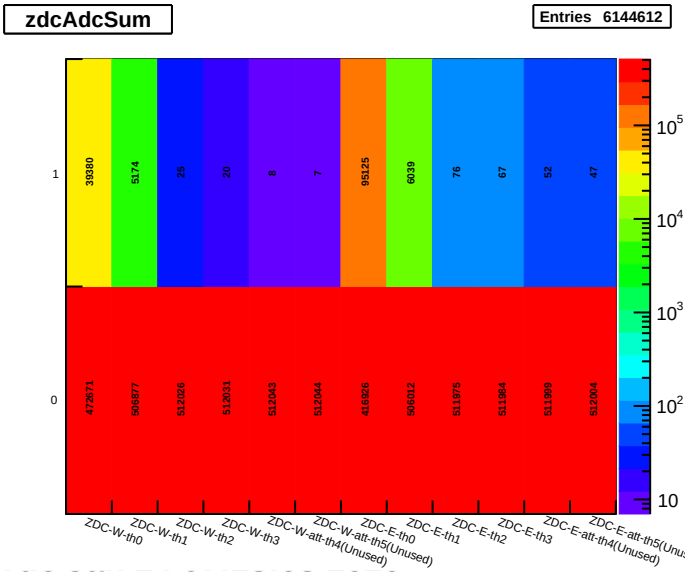
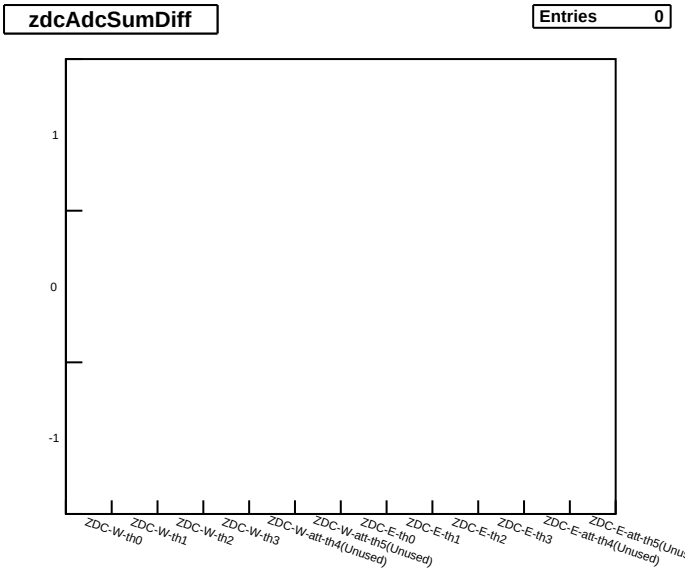
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000

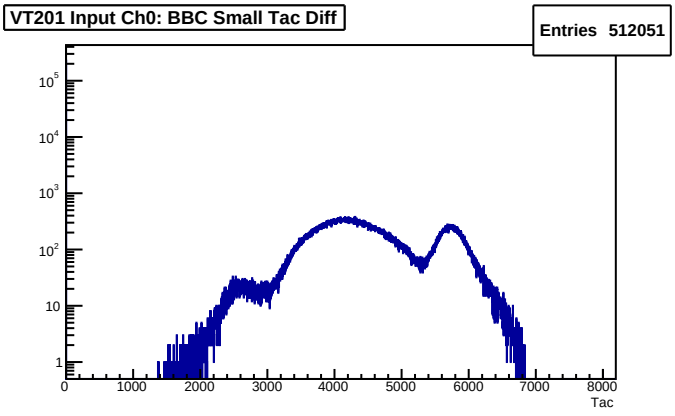

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

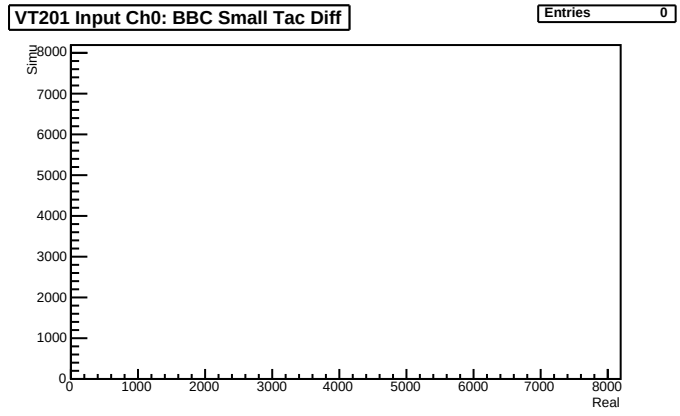

zdcWestTac
Entries 512051
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000

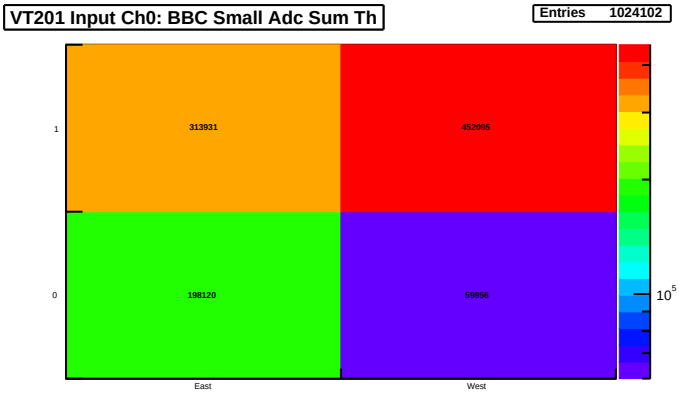

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

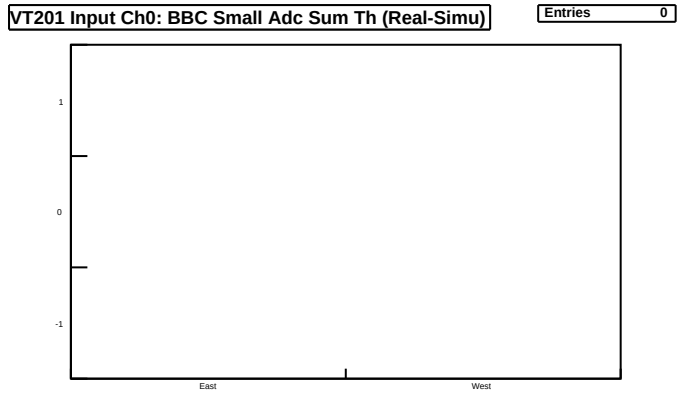

zdcAdcSum
Entries 6144612
1
0
39380
5174
25
20
8
7
95125
6039
76
67
52
47
472671
506877
512026
512031
512043
512044
416926
506012
511975
511984
511990
512004
$10^5$
$10^4$
$10^3$
$10^2$
10
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

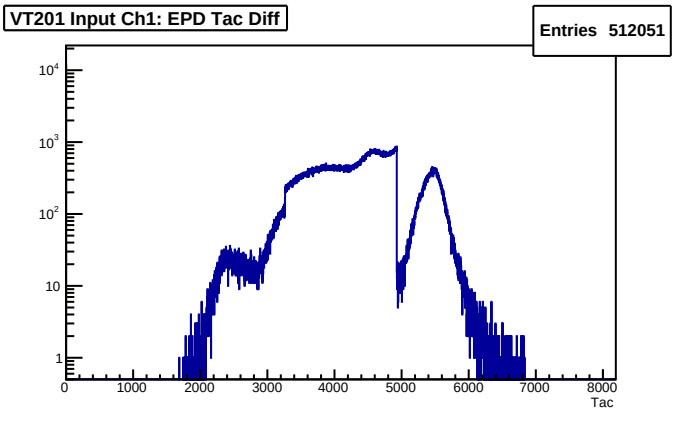

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

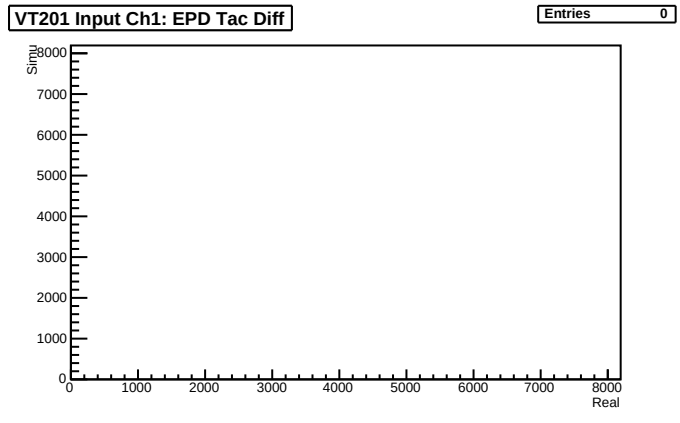

VT201 Input Ch0: BBC Small Tac Diff
Entries 512051
Tac

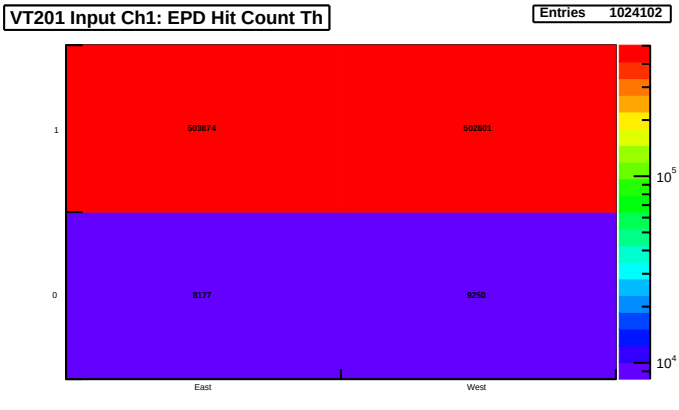

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

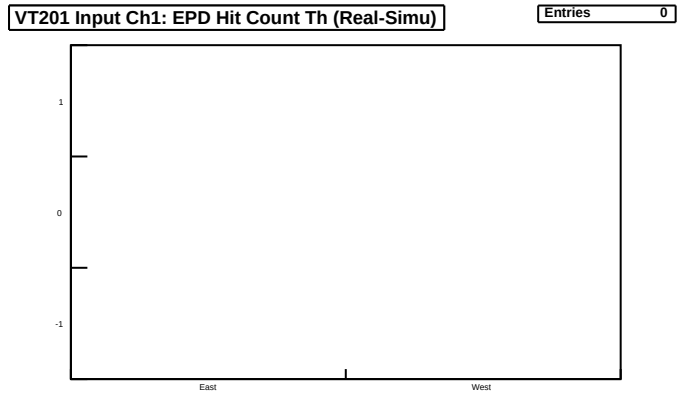

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1024102
313931
452095
198120
59956
East
West

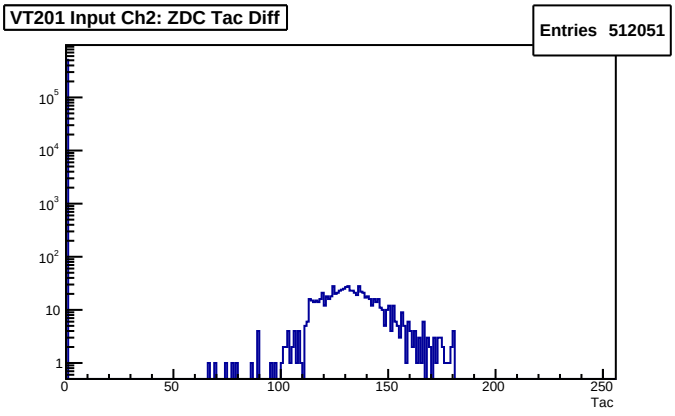

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

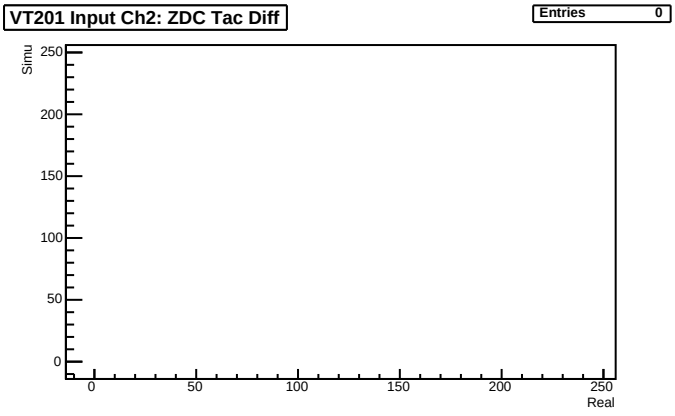

VT201 Input Ch1: EPD Tac Diff
Entries 512051
Tac

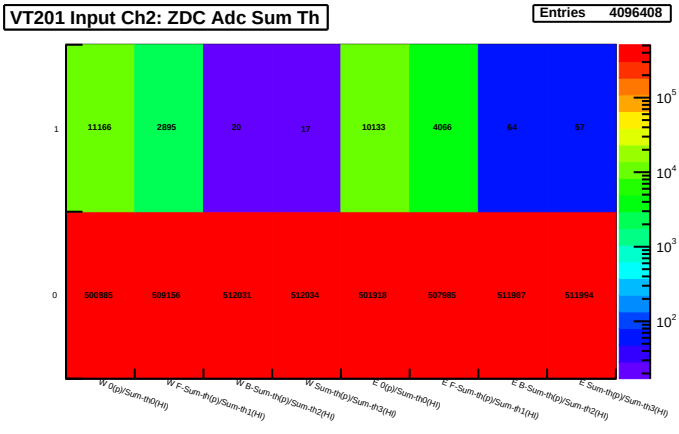

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

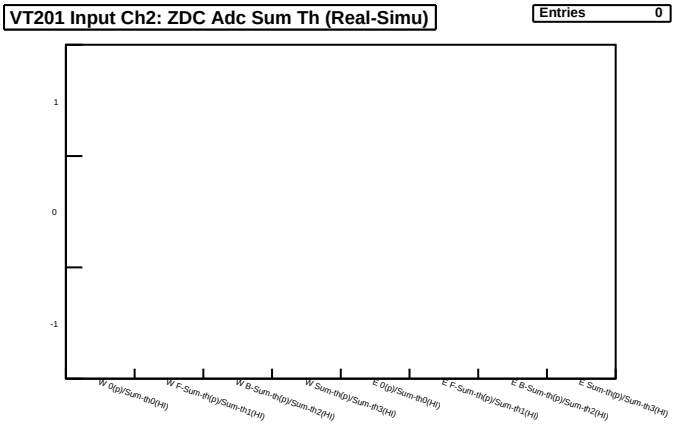

VT201 Input Ch1: EPD Hit Count Th
Entries 1024102
503874
502801
8177
9250
East
West

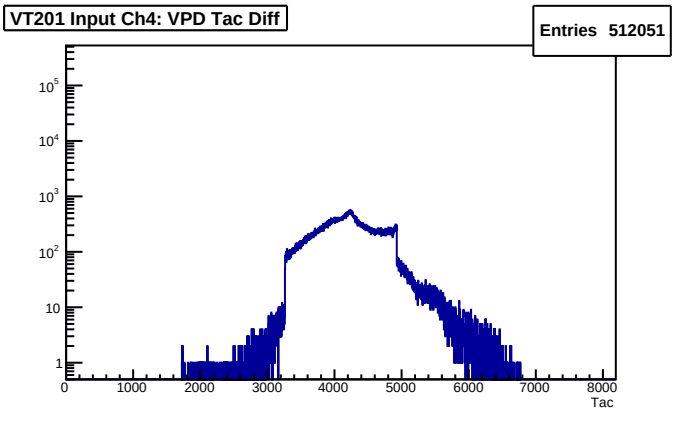

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

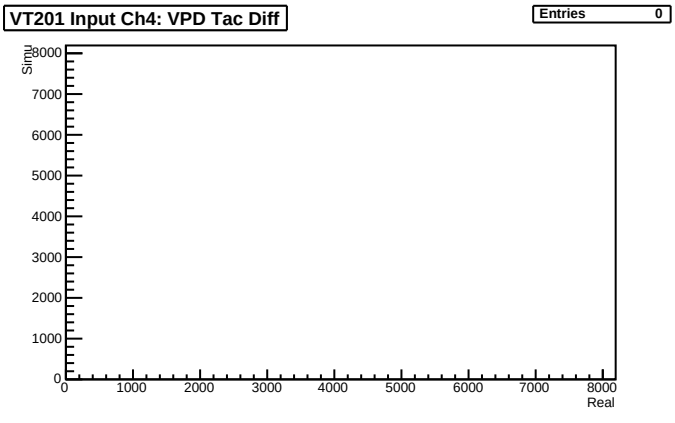

VT201 Input Ch2: ZDC Tac Diff
Entries 512051
Tac

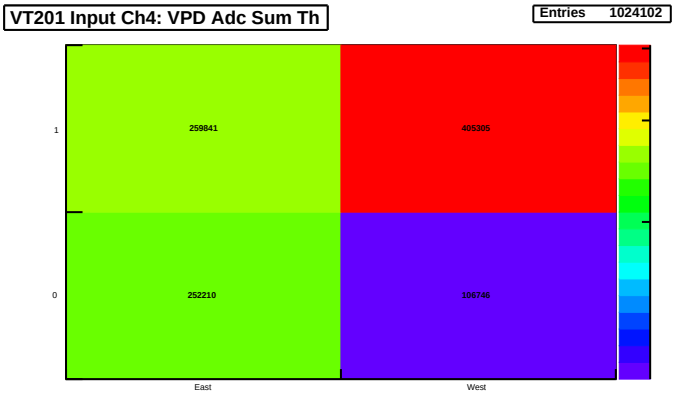

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

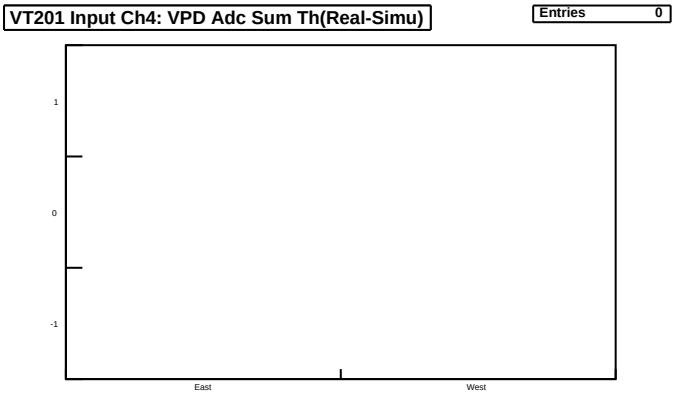

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4096408
11166
2895
20
17
10133
4066
64
57
500885
509156
512031
512034
501918
507985
511987
511994
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

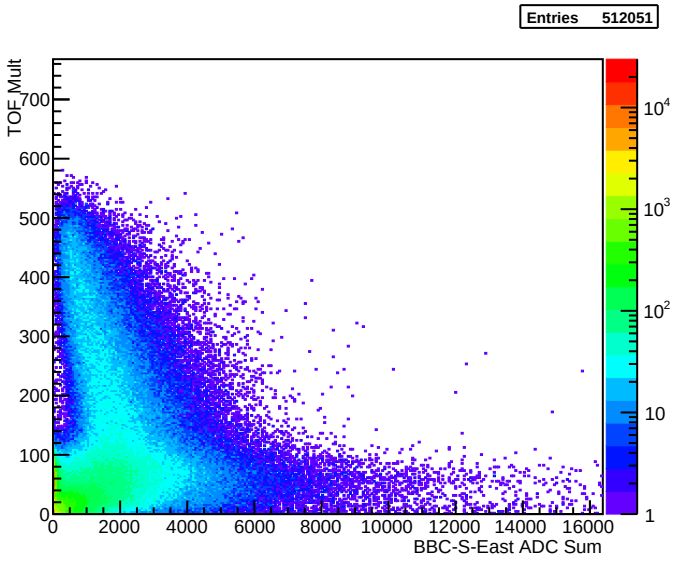

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

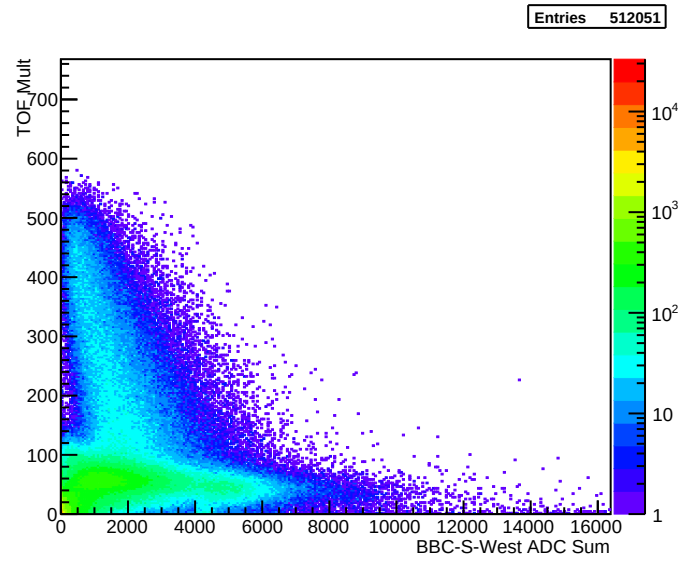

VT201 Input Ch4: VPD Tac Diff
Entries 512051
Tac

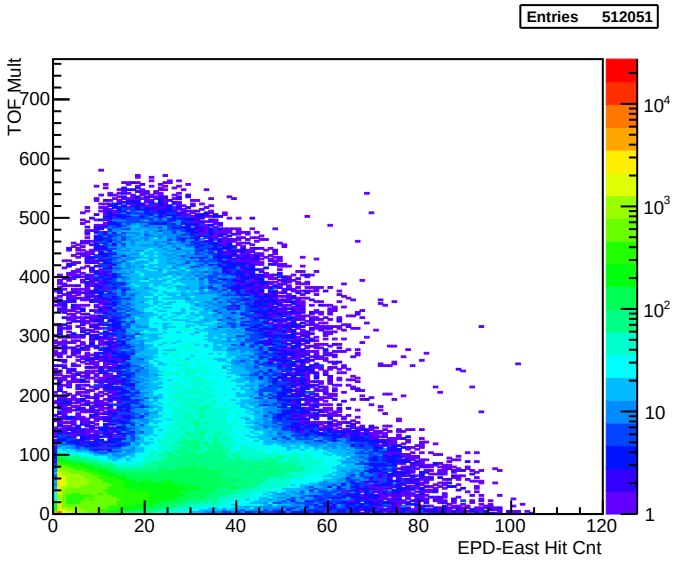

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

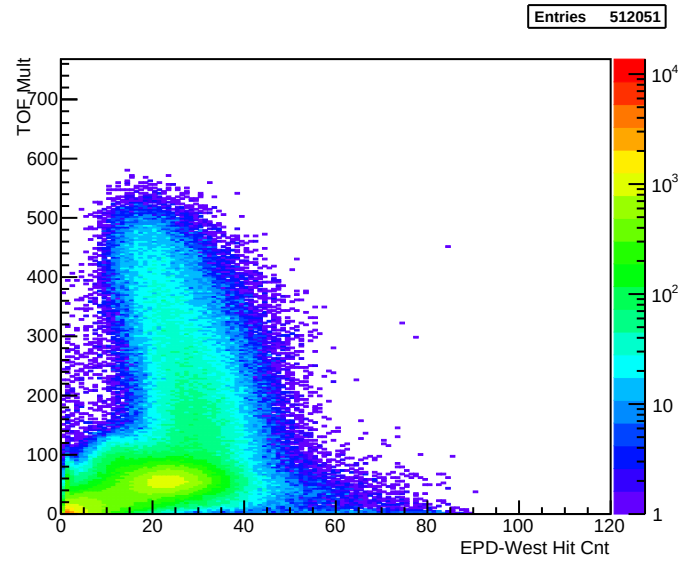

VT201 Input Ch4: VPD Adc Sum Th
Entries 1024102
259841
405305
252210
106746
East
West

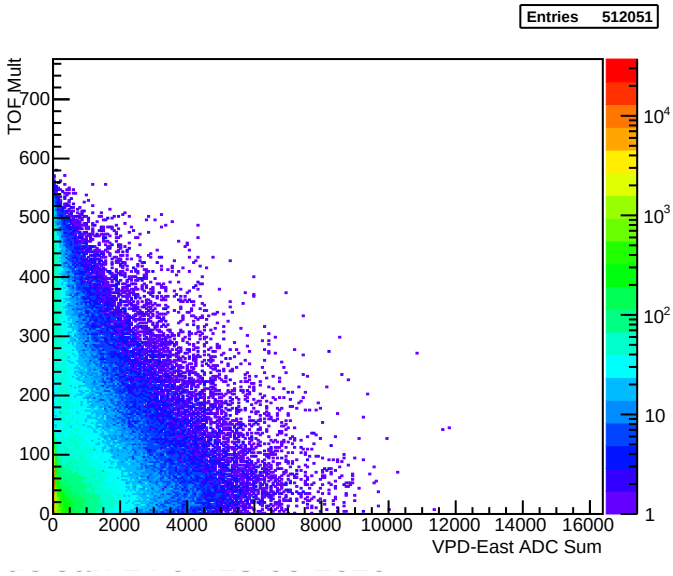

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

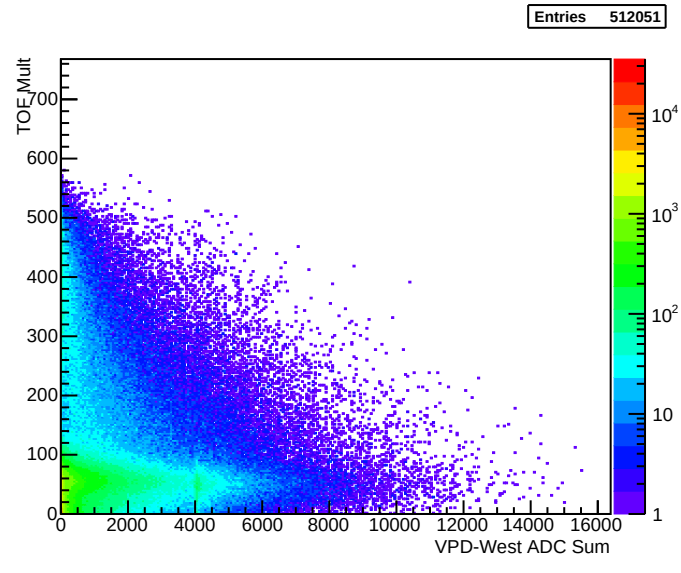

Entries 512051
TOF_Mult
BBC-S-East ADC Sum

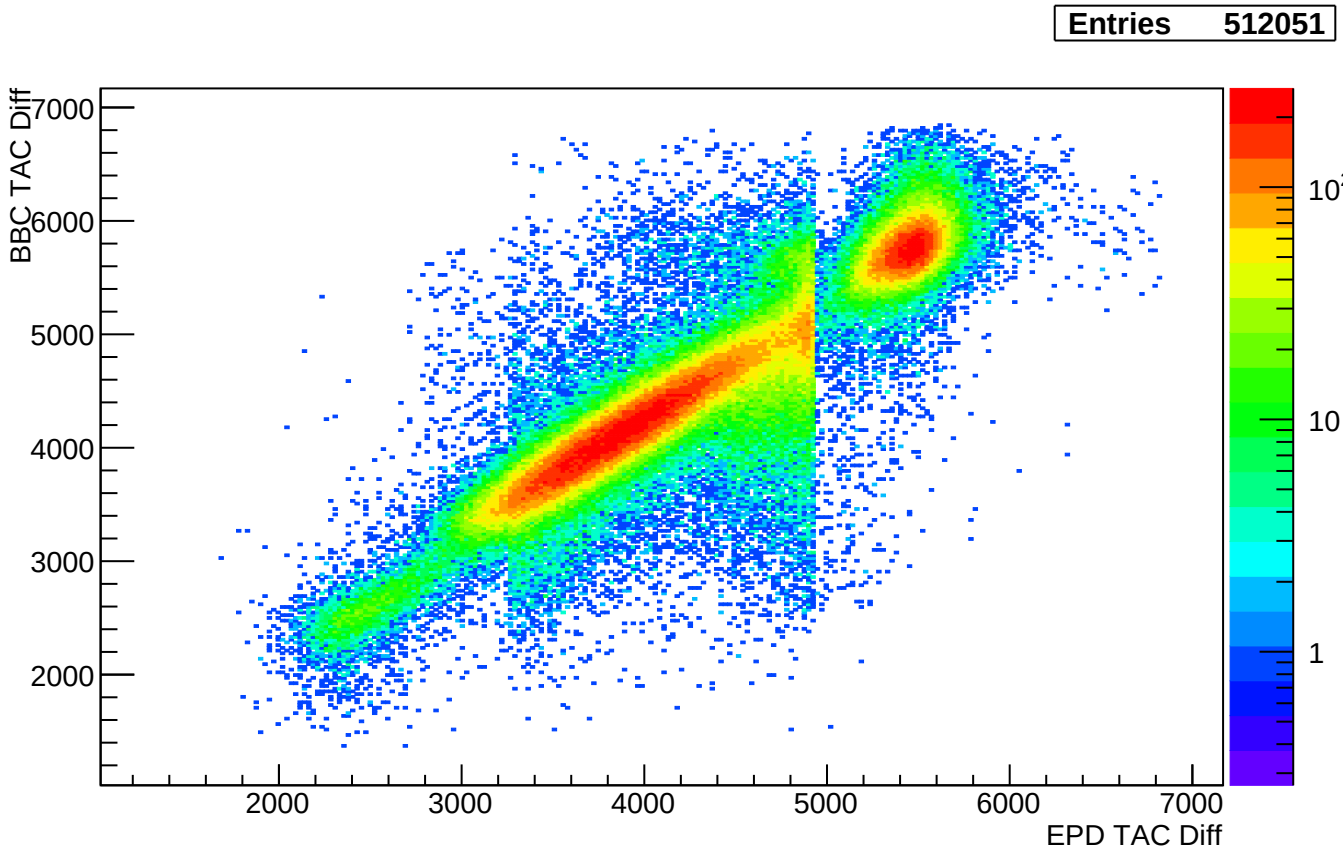

Entries 512051
TOF_Mult
BBC-S-West ADC Sum

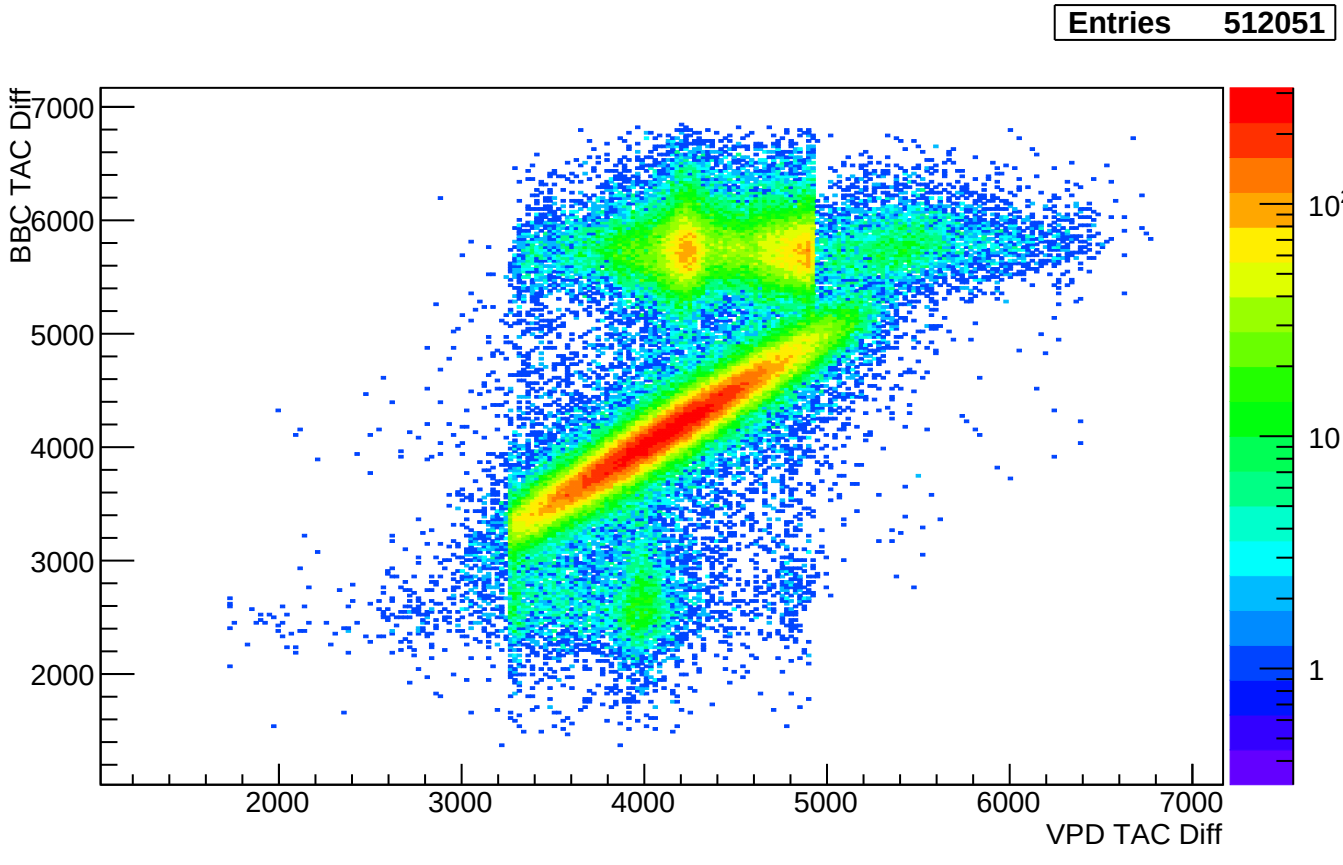

Entries 512051
TOF_Mult
EPD-East Hit Cnt

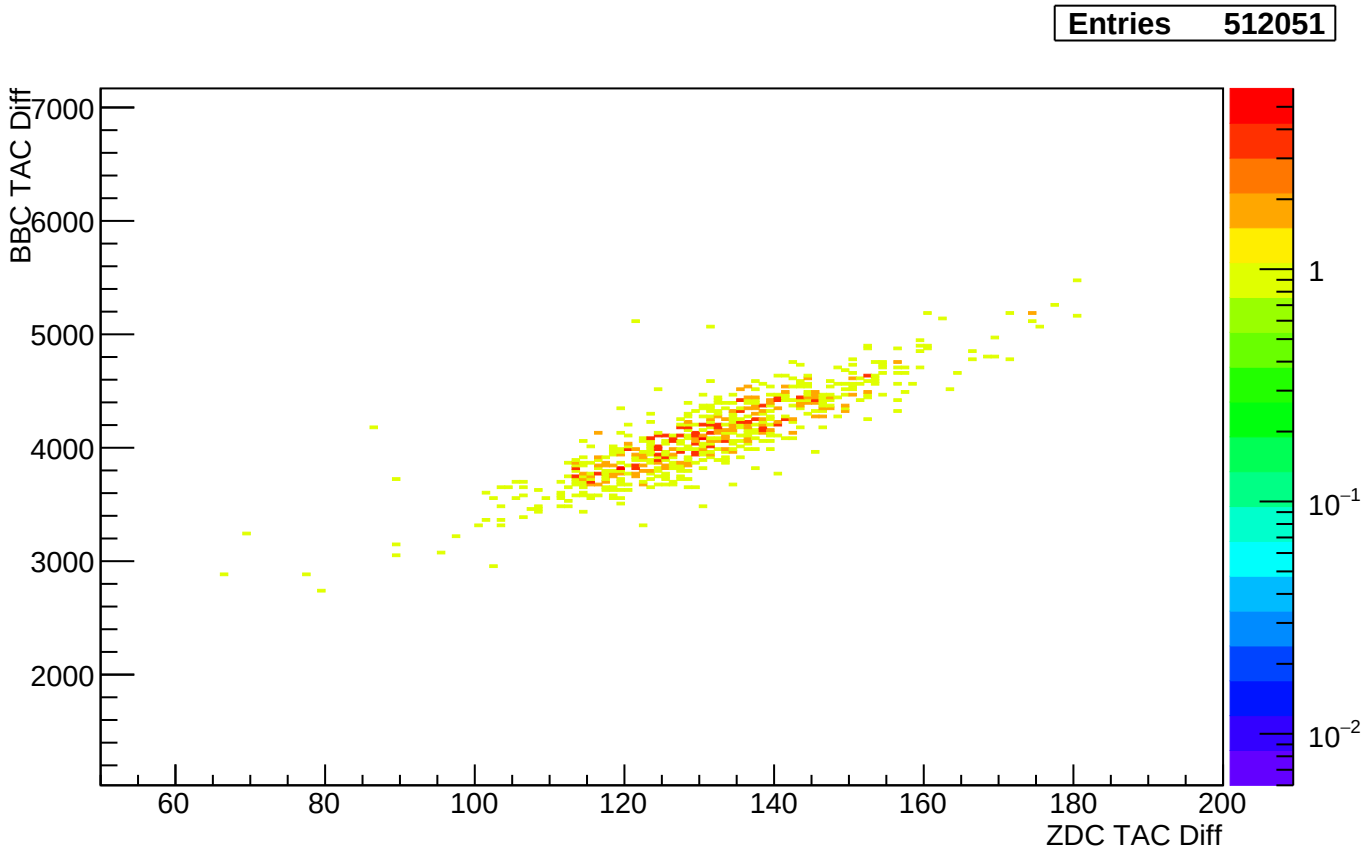

Entries 512051
TOF_Mult
EPD-West Hit Cnt

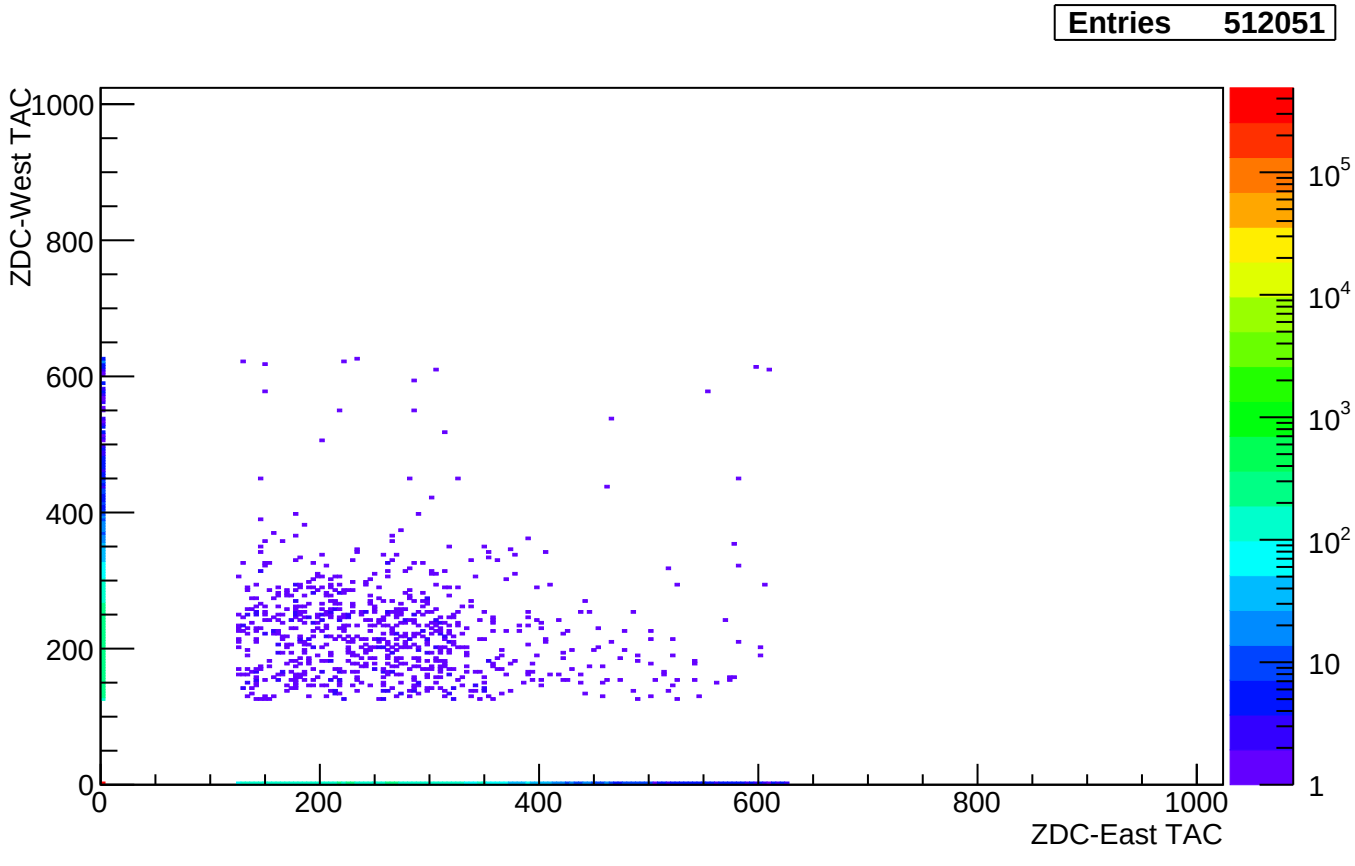

Entries 512051
TOF_Mult
VPD-East ADC Sum

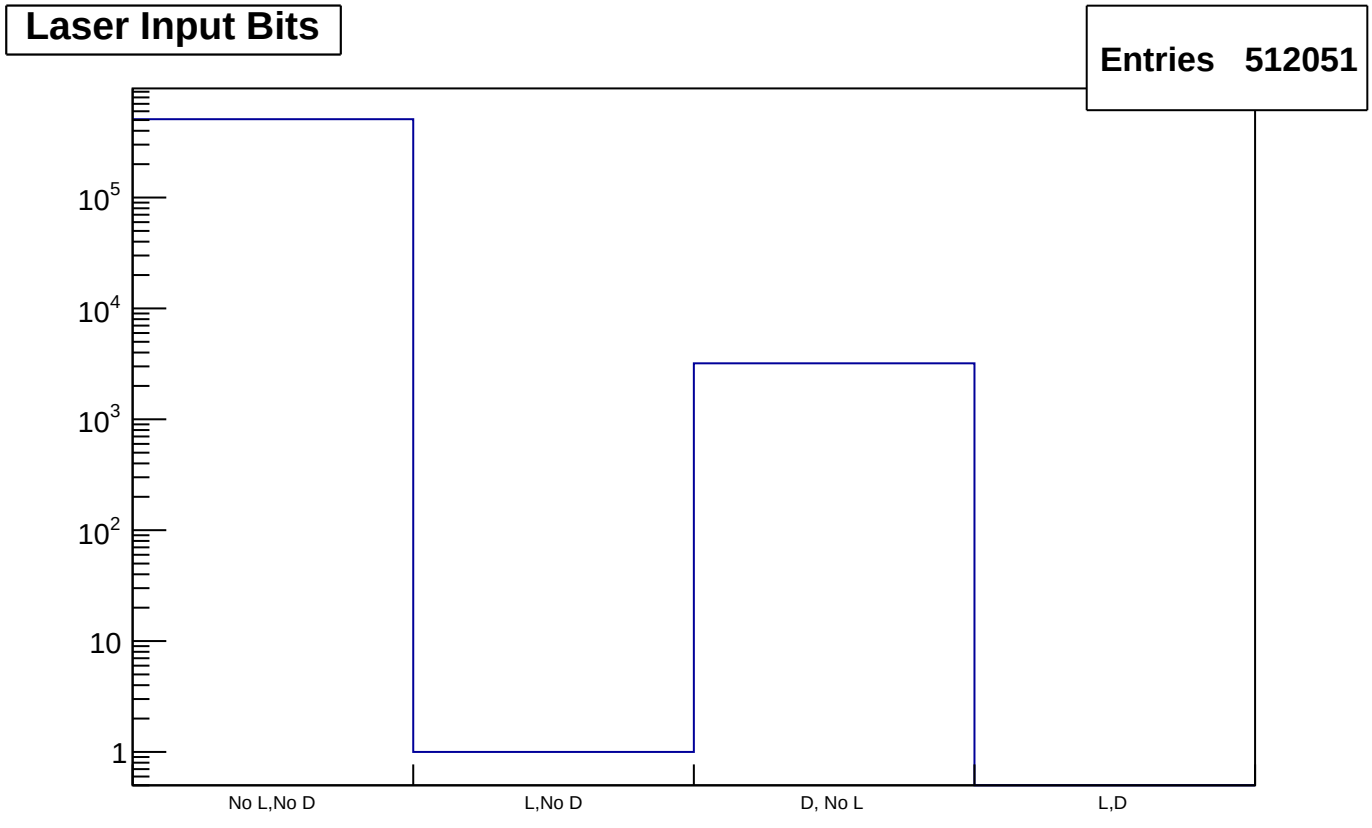

Entries 512051
TOF_Mult
VPD-West ADC Sum

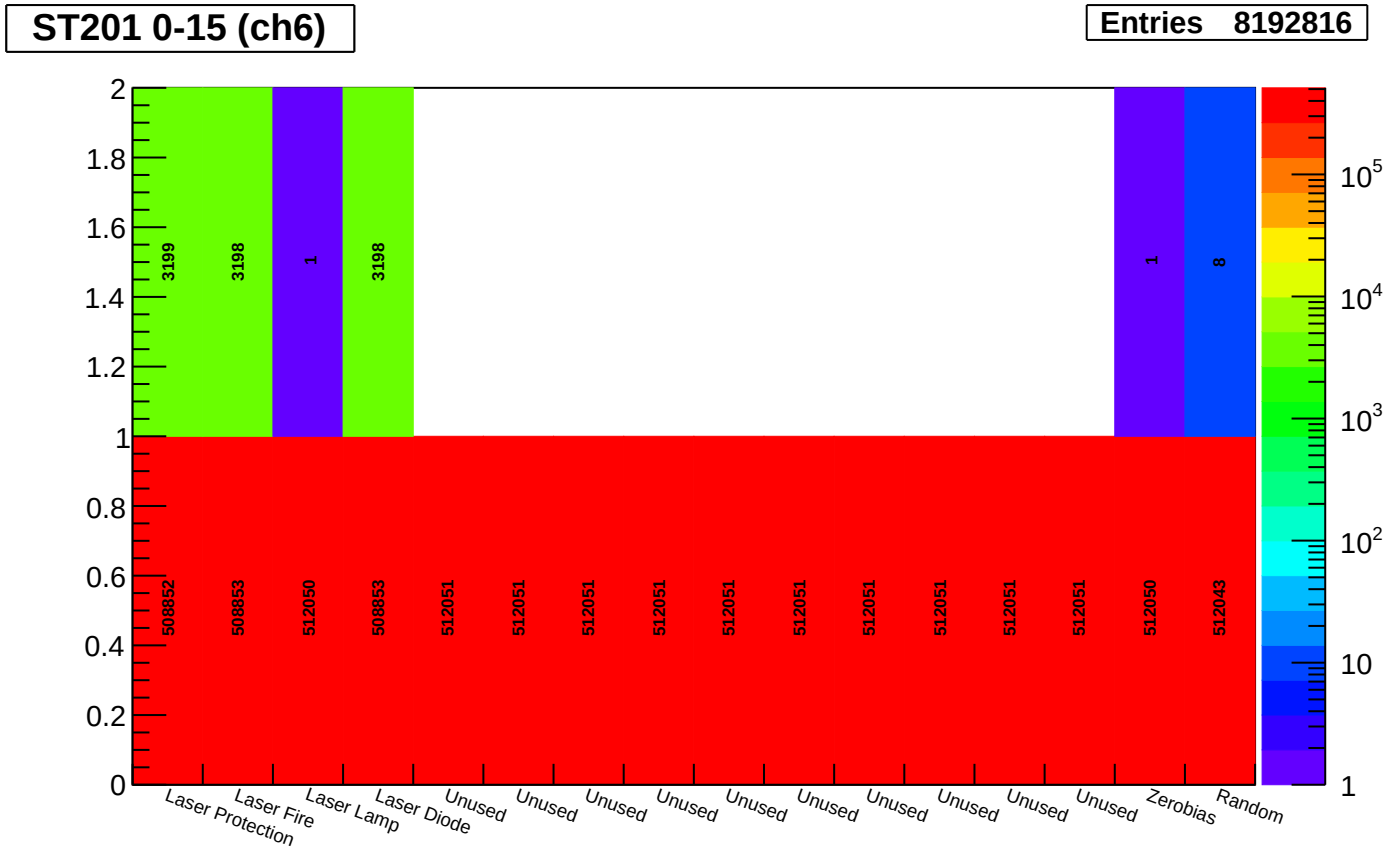

Entries 512051
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
$10^2$
10
1

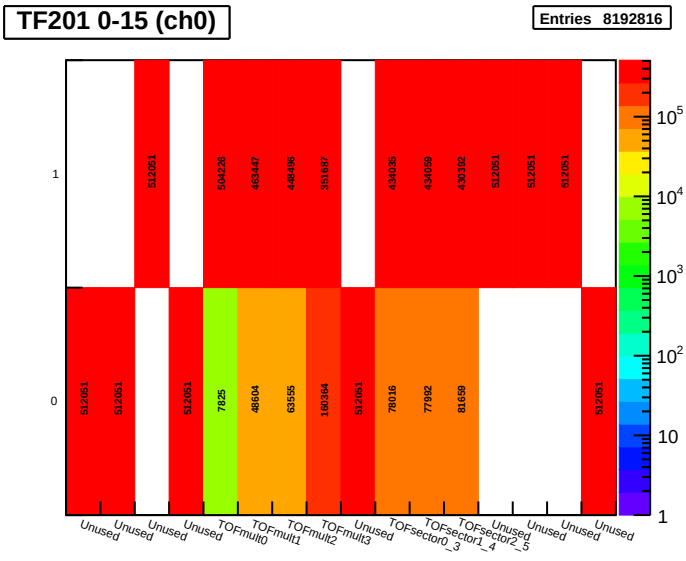

Entries 512051
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
$10^2$
10
1

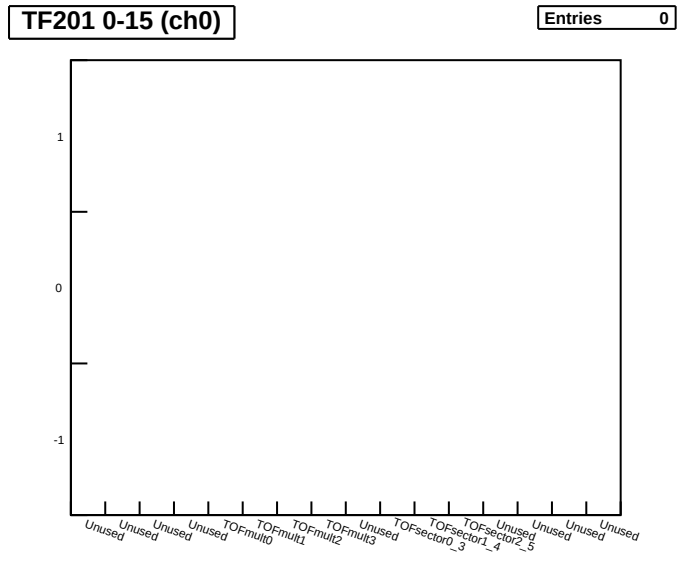

Entries 512051
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
$10^{-1}$
$10^{-2}$

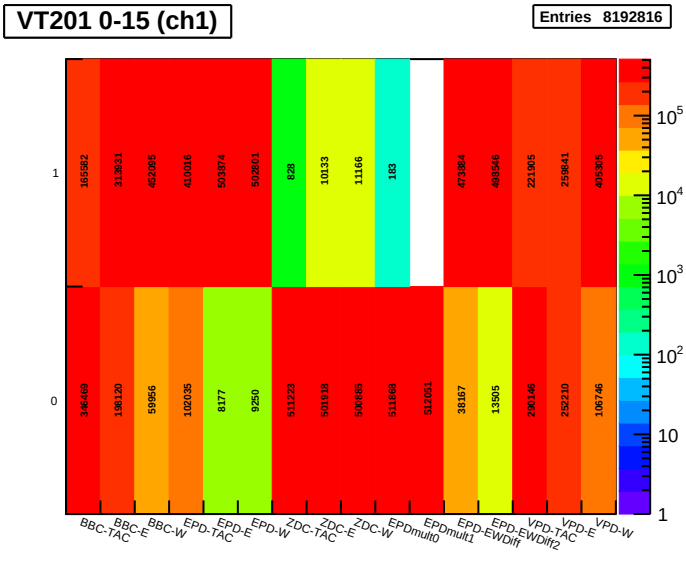

Entries 512051
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^5$
$10^4$
$10^3$
$10^2$
10
1

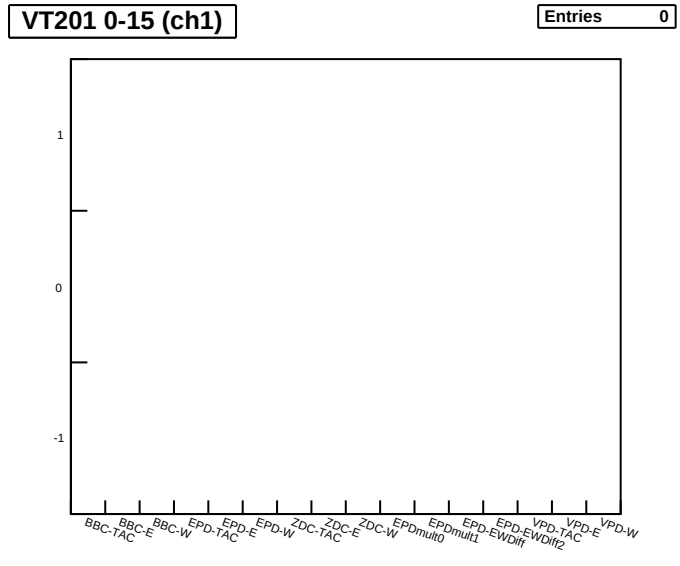

Laser Input Bits
Entries 512051
$10^5$
$10^4$
$10^3$
$10^2$
10
1
No L,No D
L,No D
D, No L
L,D

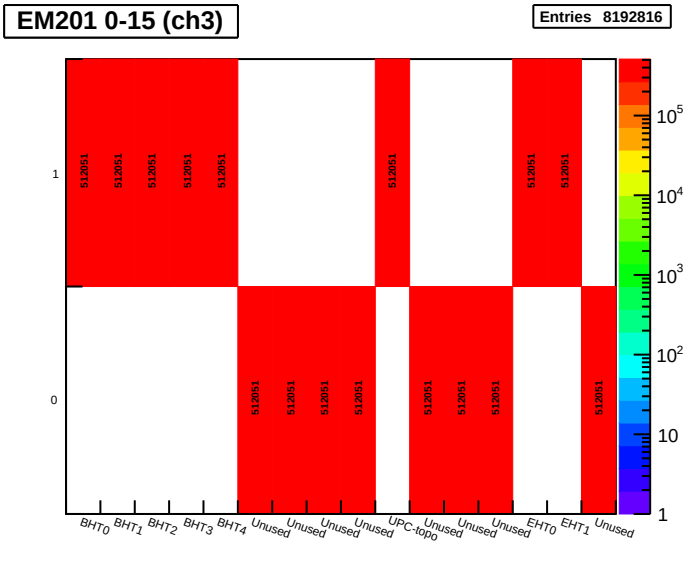

ST201 0-15 (ch6)
Entries 8192816
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3199
3198
1
3198
1
8
508852
508853
512050
508853
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512050
512043
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
$10^5$
$10^4$
$10^3$
$10^2$
10
1

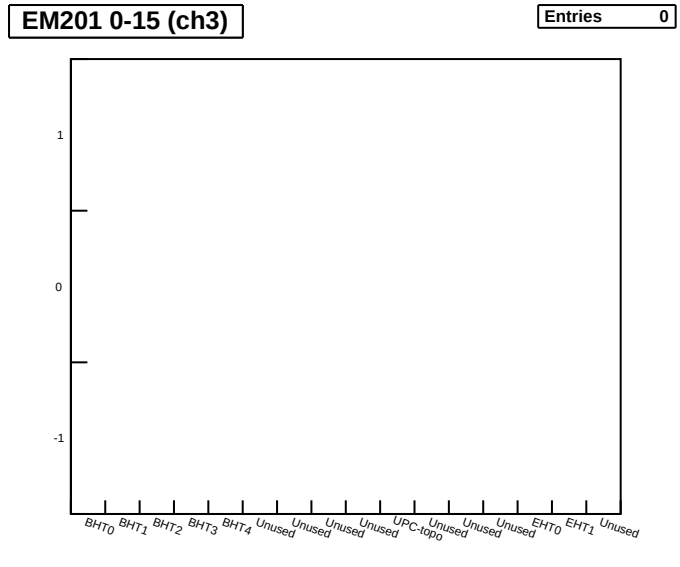

TF201 0-15 (ch0)
Entries 8192816
1
0
512051
504226
463447
448496
351687
434035
434059
430392
512051
512051
512051
512051
512051
512051
7825
49604
63555
160364
512051
78016
77992
81659
512051
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
$10^5$
$10^4$
$10^3$
$10^2$
10
1


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


VT201 0-15 (ch1)
Entries 8192816
1
0
165582
313931
452095
410016
503874
502801
828
10133
11166
183
473884
498546
221905
258841
405305
346469
198120
59956
102035
8177
9250
511223
501918
500885
511868
512051
38167
13505
290146
252210
106746
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W
$10^5$
$10^4$
$10^3$
$10^2$
10
1


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


EM201 0-15 (ch3)
Entries 8192816
1
0
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
512051
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1
$10^5$
$10^4$
$10^3$
$10^2$
10
1


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