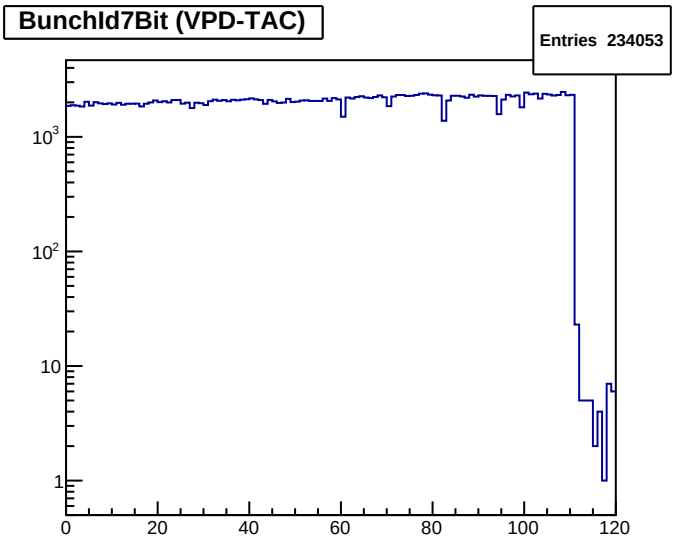
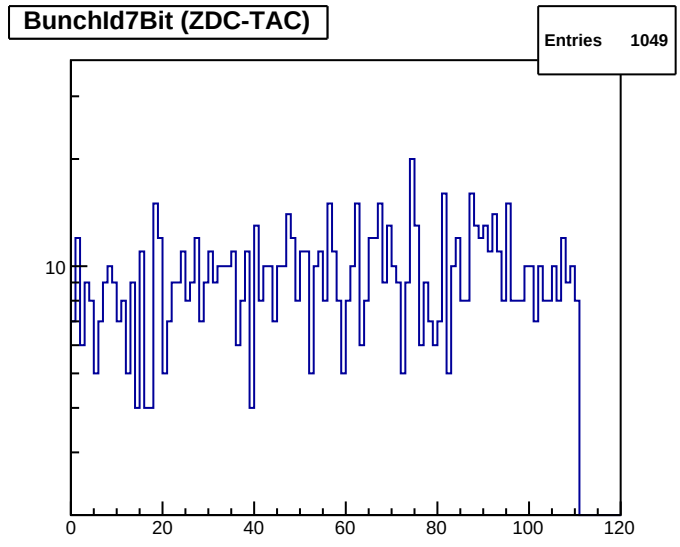
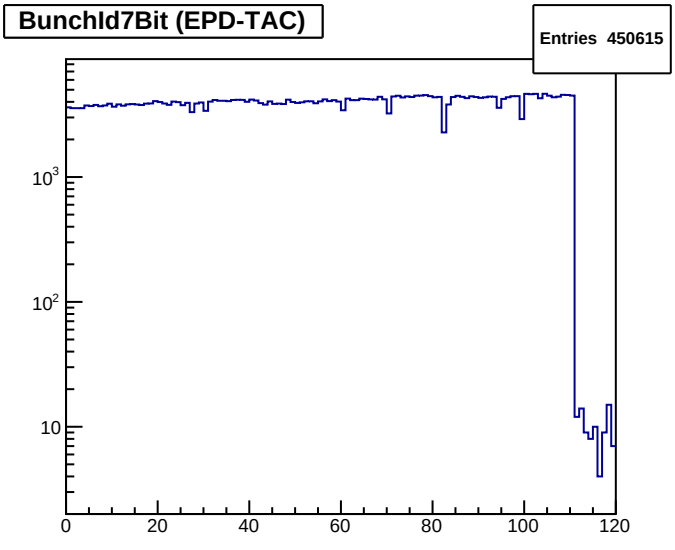
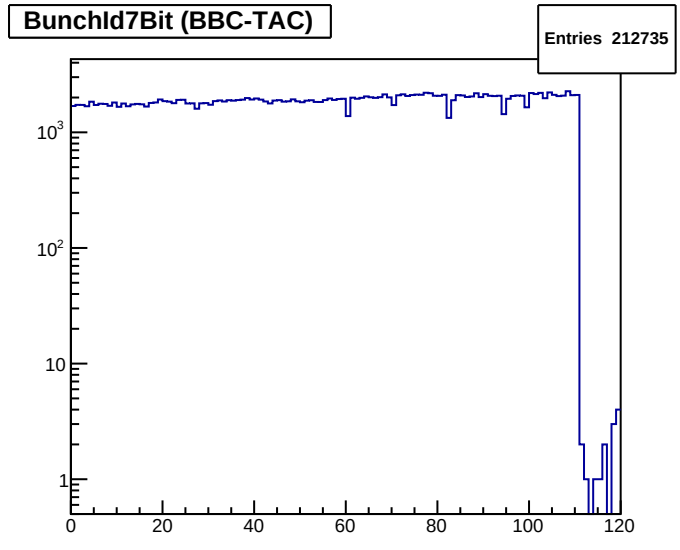
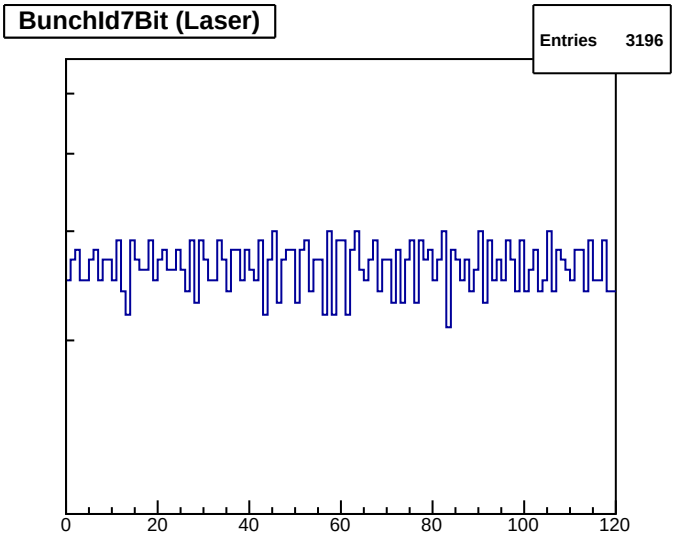
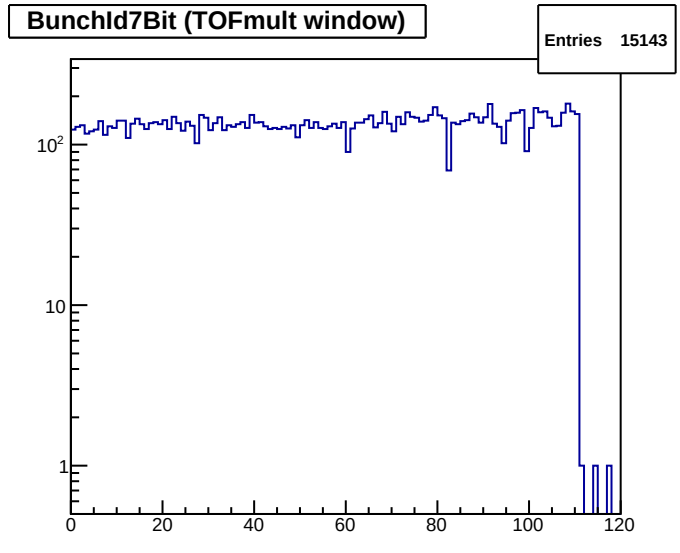

BunchId7Bit (VPD-TAC)
Entries 234053
10^3
10^2
10
1
0
20
40
60
80
100
120

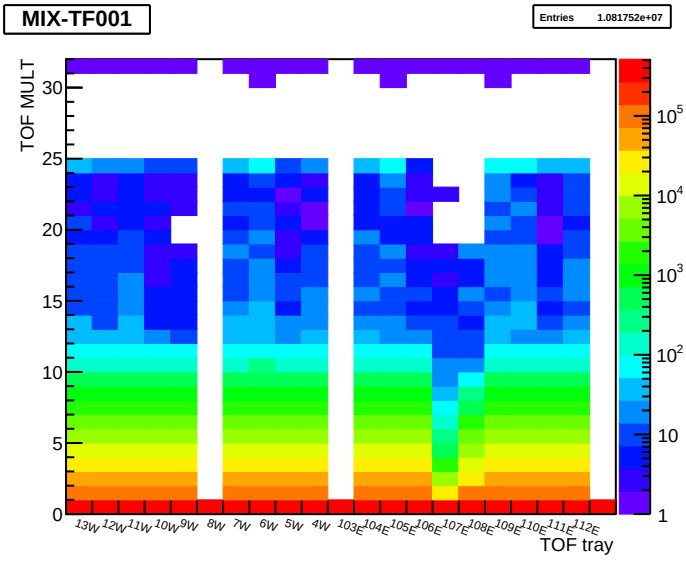

BunchId7Bit (ZDC-TAC)
Entries 1049
10
0
20
40
60
80
100
120

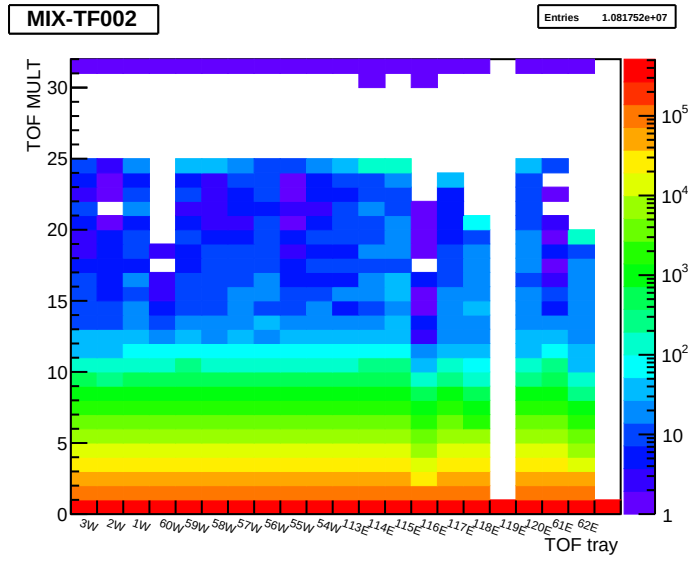

BunchId7Bit (EPD-TAC)
Entries 450615
10^3
10^2
10
0
20
40
60
80
100
120

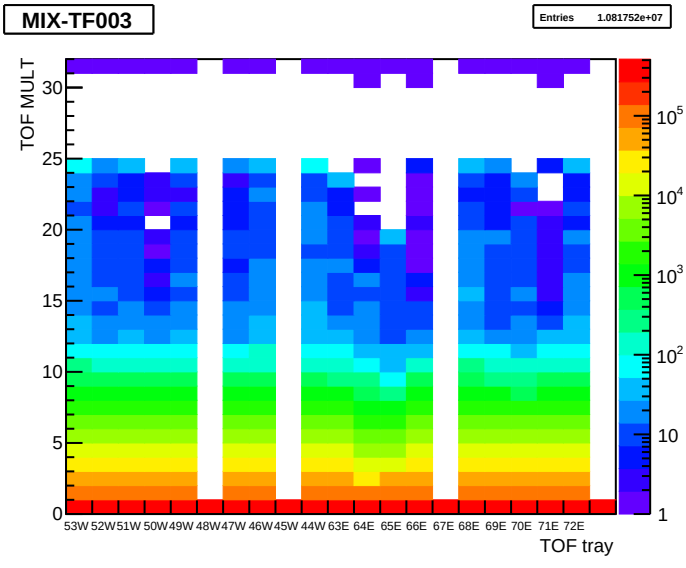

BunchId7Bit (BBC-TAC)
Entries 212735
10^3
10^2
10
1
0
20
40
60
80
100
120

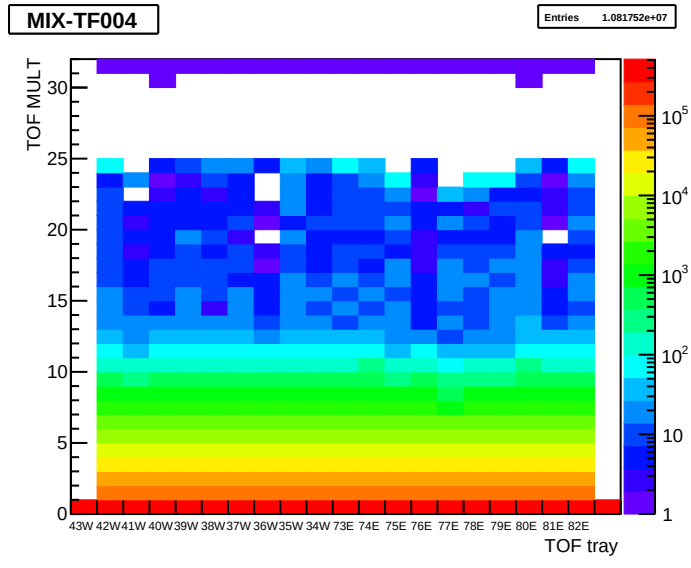

BunchId7Bit (Laser)
Entries 3196
0
20
40
60
80
100
120

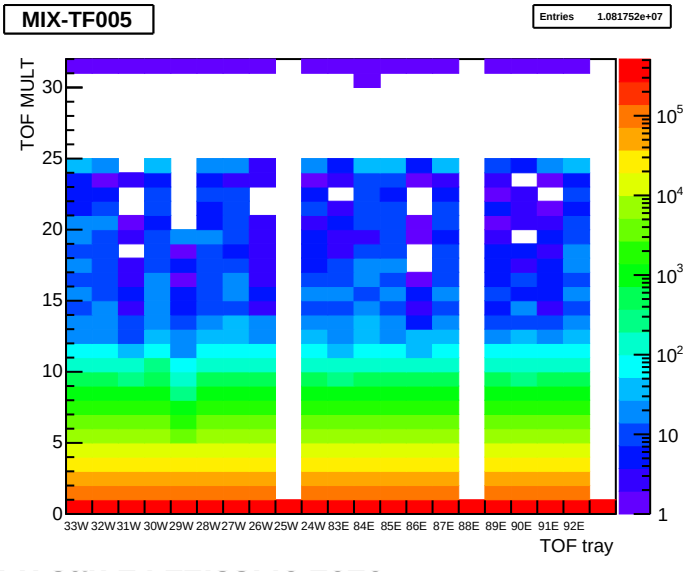

BunchId7Bit (TOFmult window)
Entries 15143
10^2
10
1
0
20
40
60
80
100
120

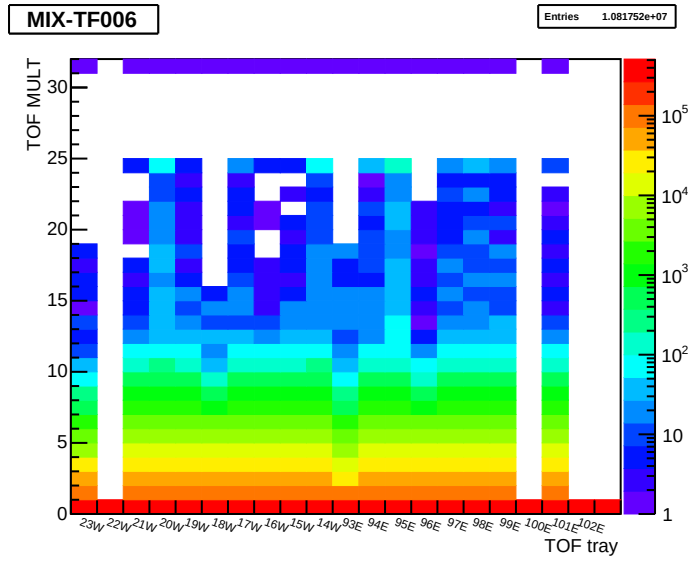

MIX-TF001
Entries 1.081752e+07
TOF MULT
TOF tray

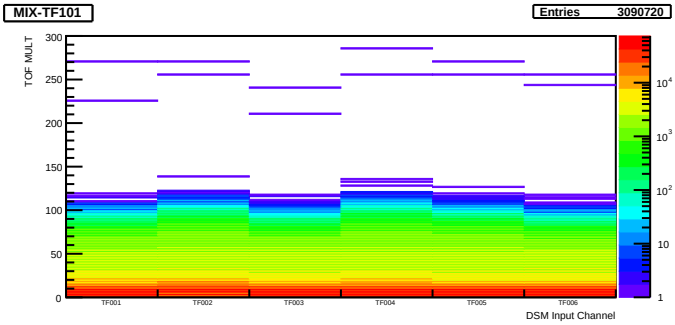

MIX-TF002
Entries 1.081752e+07
TOF MULT
TOF tray

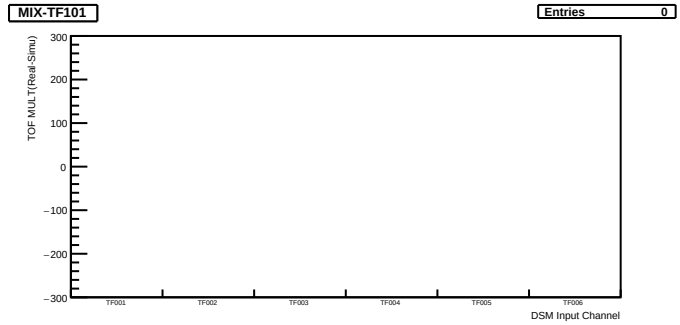

MIX-TF003
Entries 1.081752e+07
TOF MULT
TOF tray

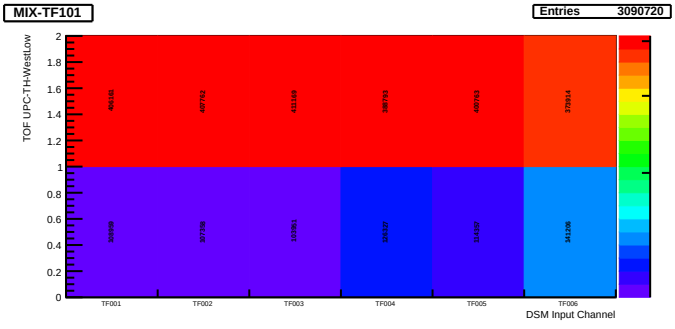

MIX-TF004
Entries 1.081752e+07
TOF MULT
TOF tray

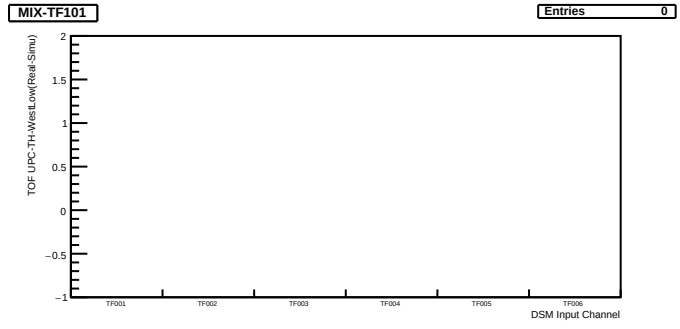

MIX-TF005
Entries 1.081752e+07
TOF MULT
TOF tray

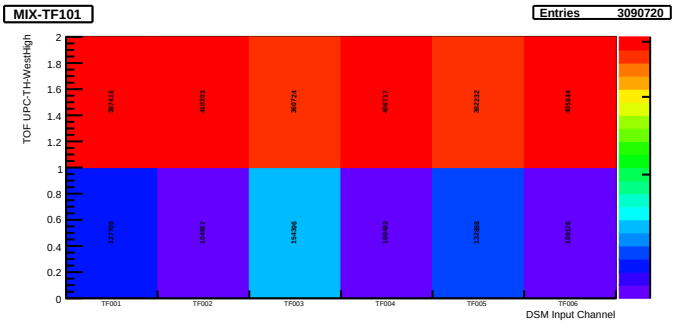

MIX-TF006
Entries 1.081752e+07
TOF MULT
TOF tray

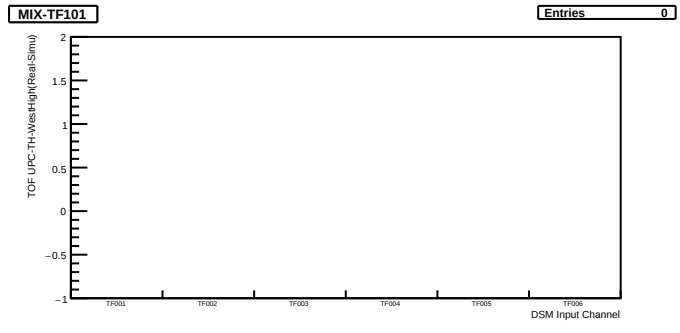

MIX-TF101
Entries 3090720
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

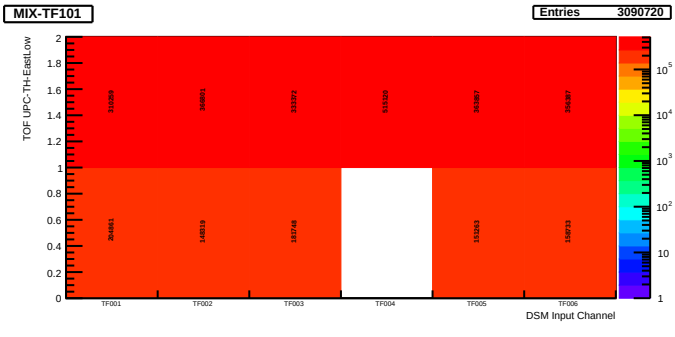

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

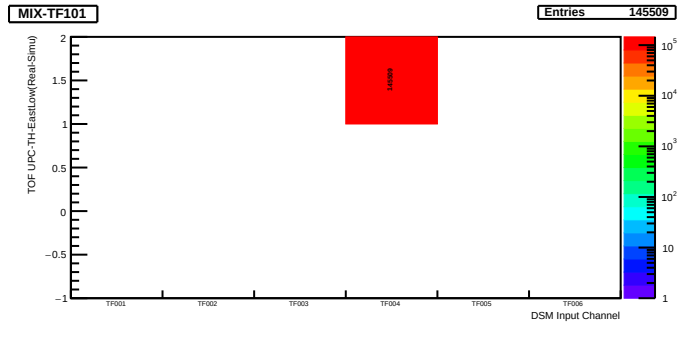

MIX-TF101
Entries 3090720
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

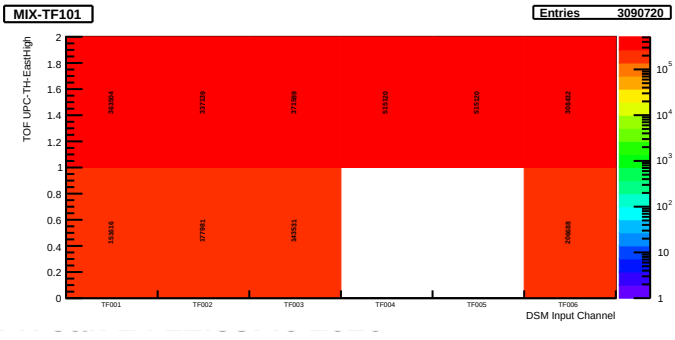

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

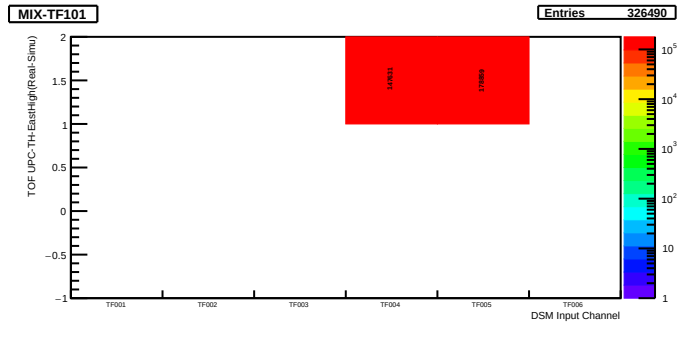

MIX-TF101
Entries 3090720
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

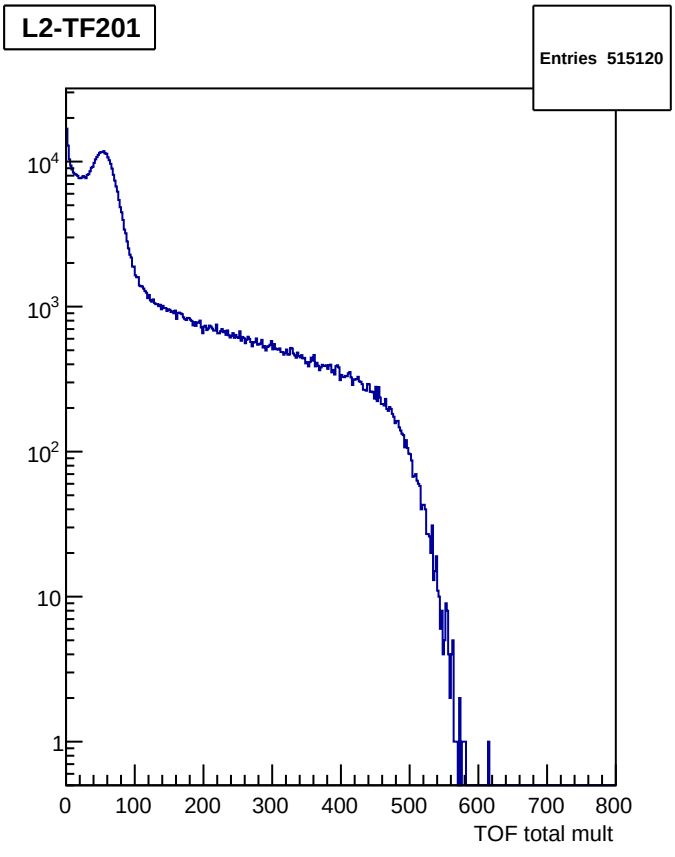

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

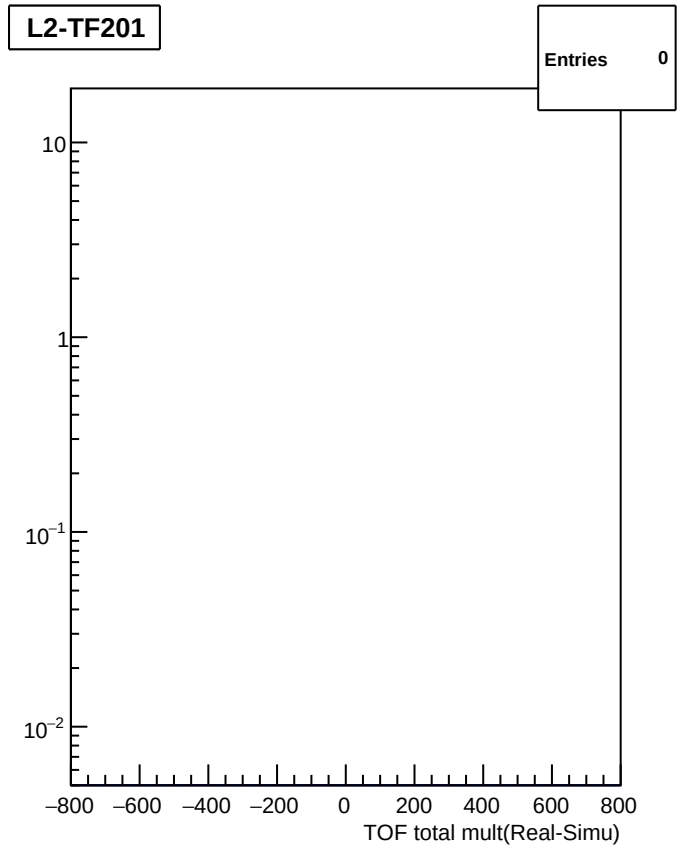

MIX-TF101
Entries 3090720
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

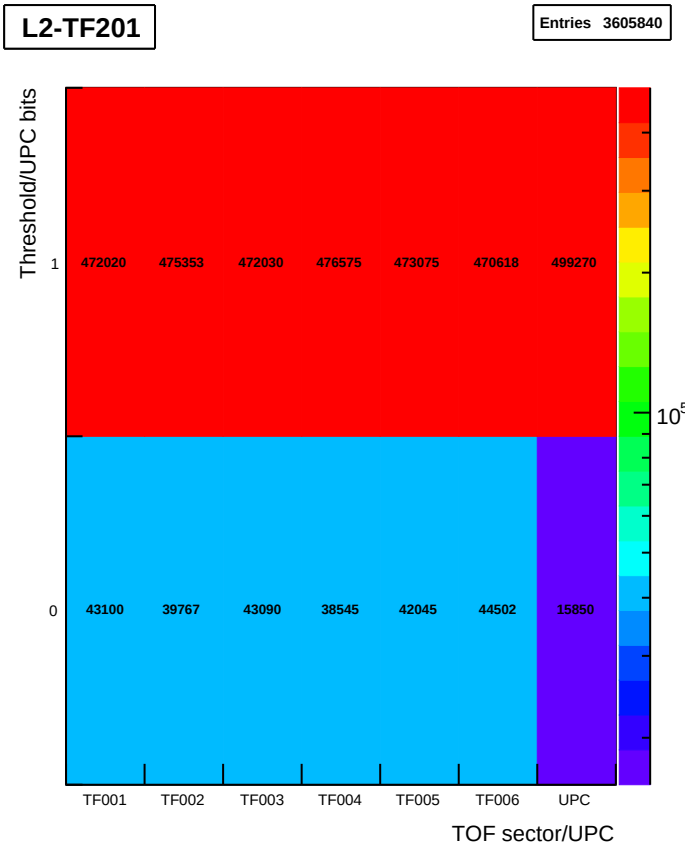

MIX-TF101
Entries 145509
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

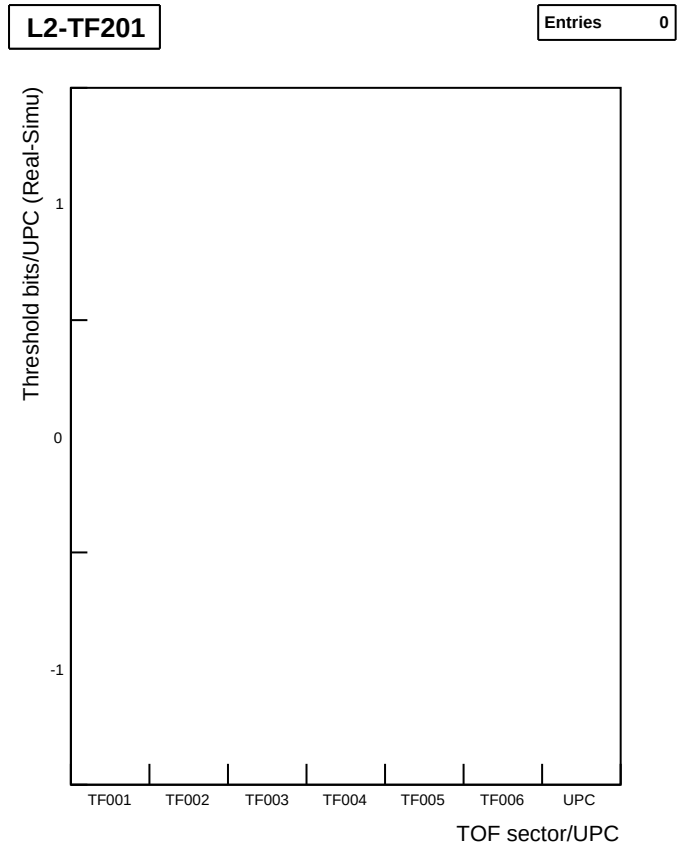

MIX-TF101
Entries 3090720
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

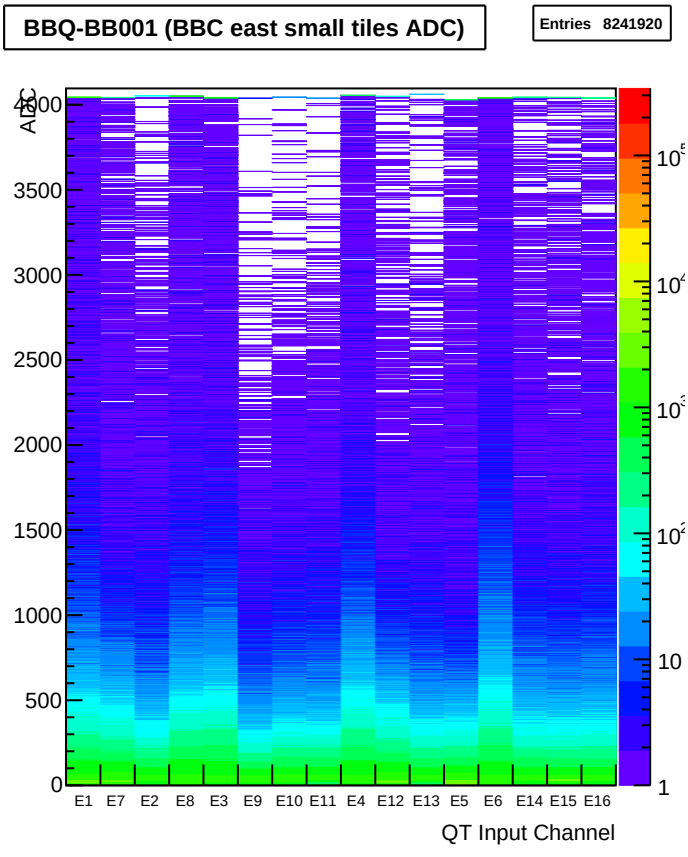

MIX-TF101
Entries 326490
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

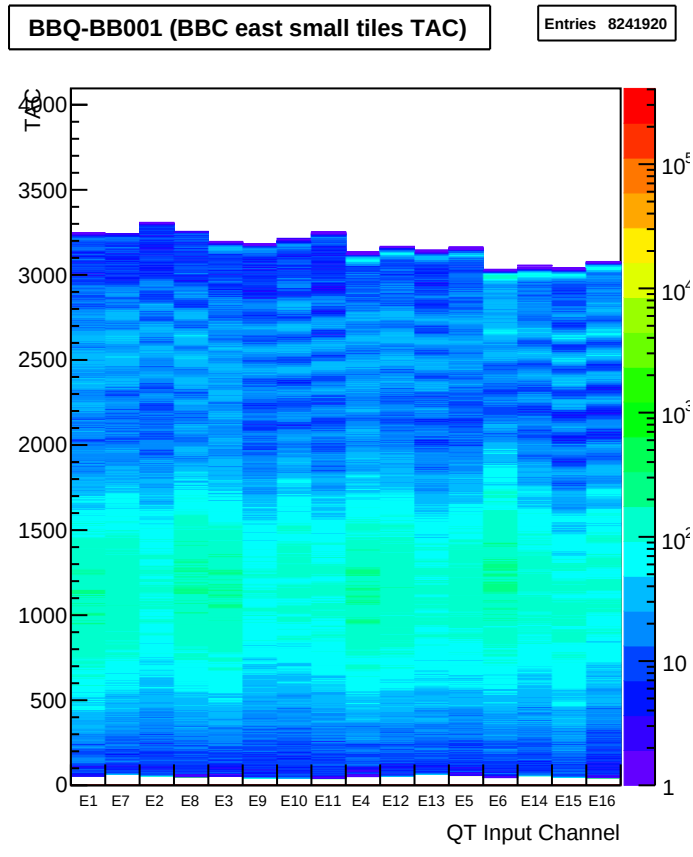

L2-TF201
Entries 515120
TOF total mult

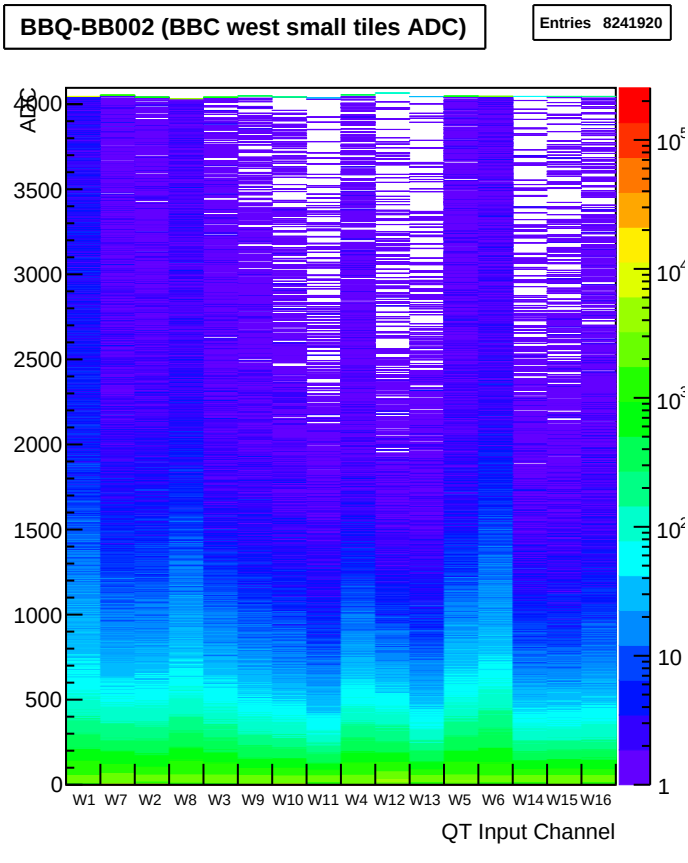

L2-TF201
Entries 0
TOF total mult(Real-Simu)

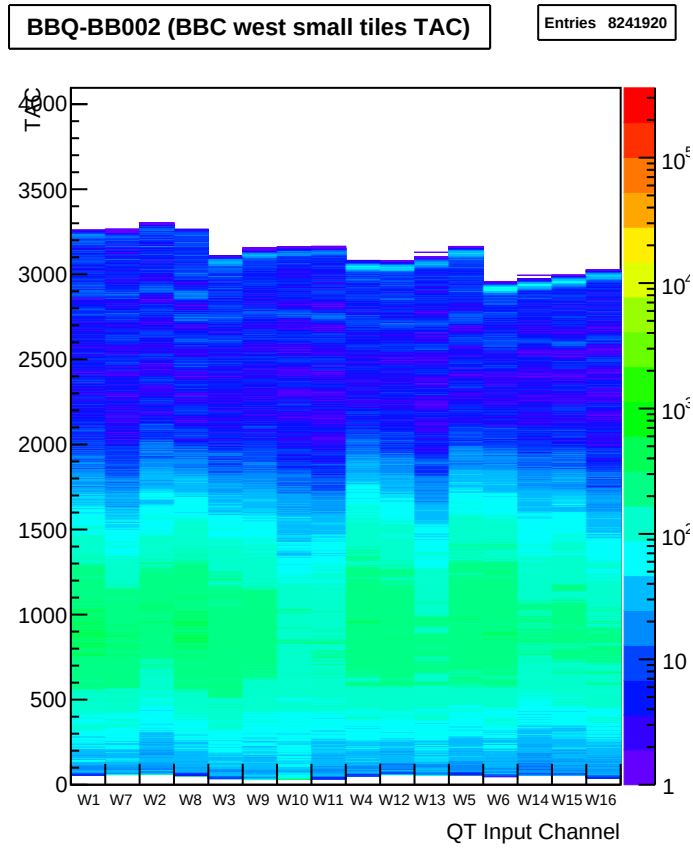

L2-TF201
Entries 3605840
Threshold/UPC bits
472020
475353
472030
476575
473075
470618
499270
43100
39767
43090
38545
42045
44502
15850
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

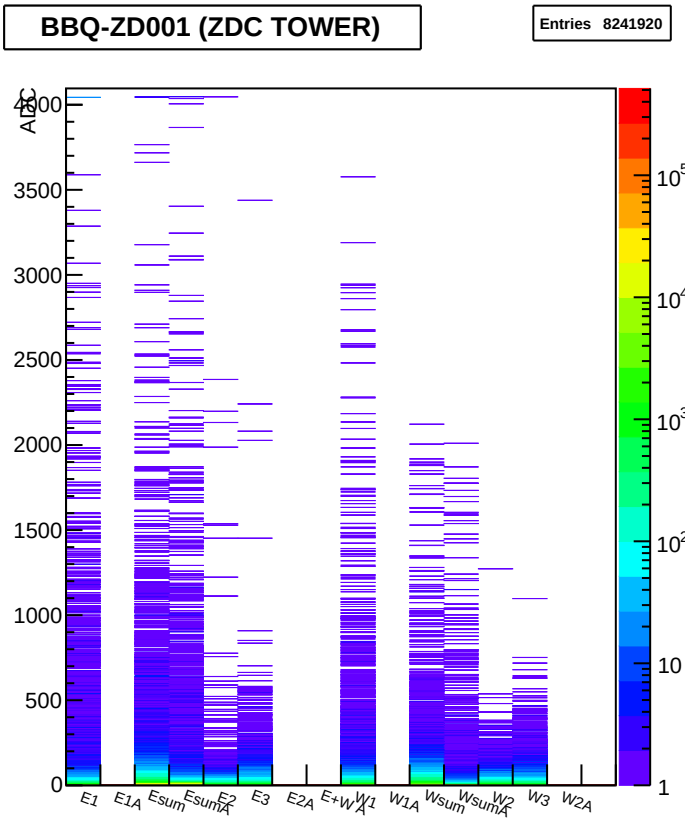

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

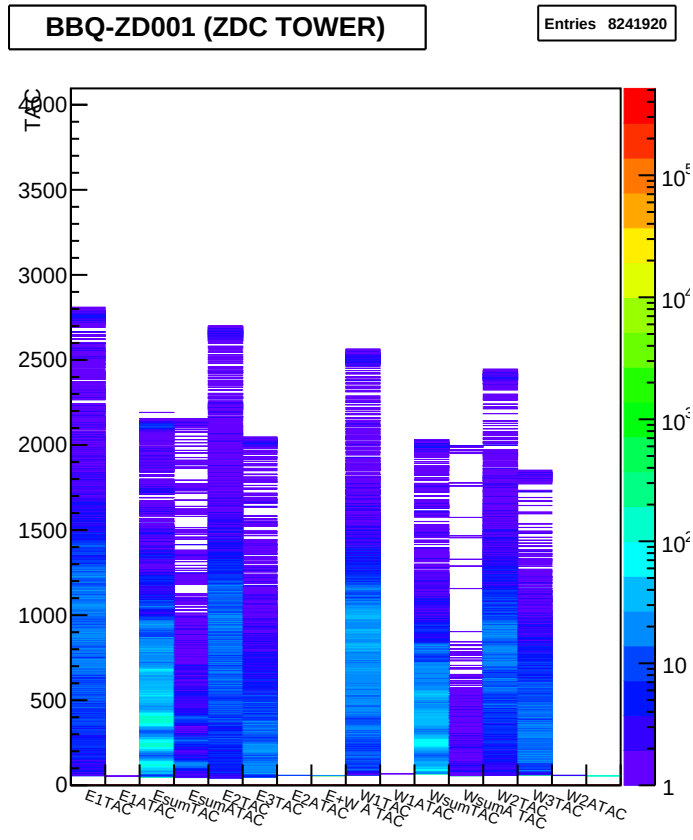

BBQ-BB001 (BBC east small tiles ADC)
Entries 8241920
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

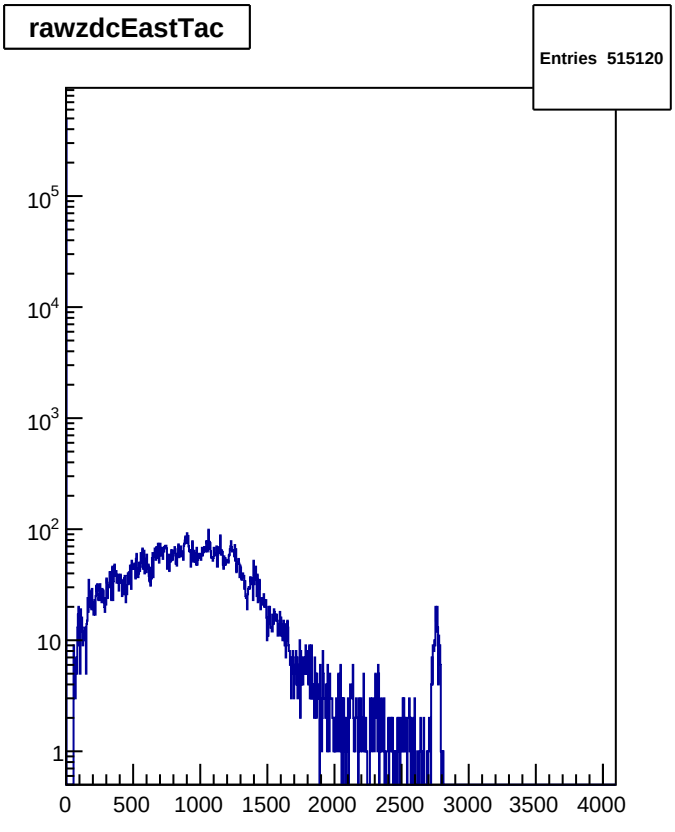

BBQ-BB001 (BBC east small tiles TAC)
Entries 8241920
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

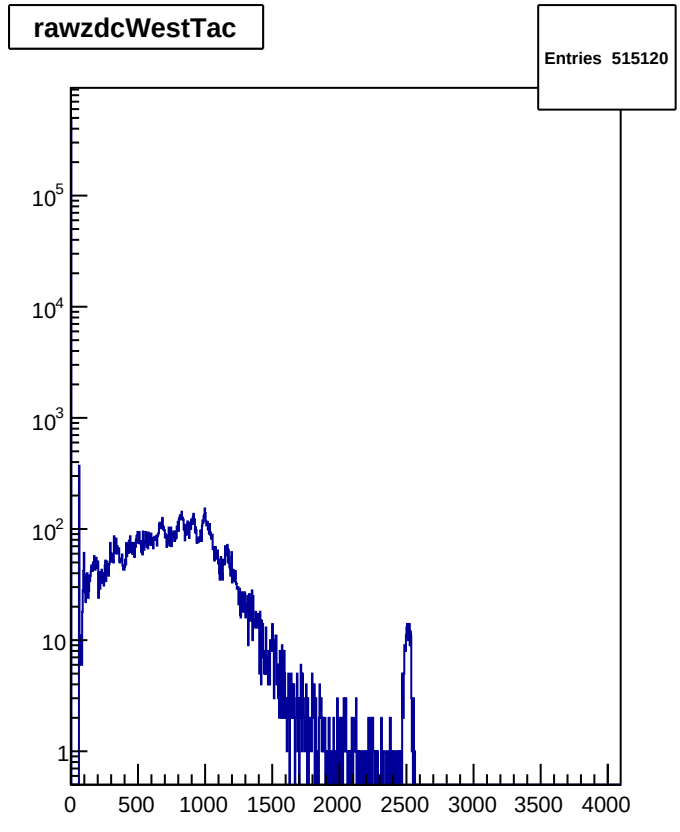

BBQ-BB002 (BBC west small tiles ADC)
Entries 8241920
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

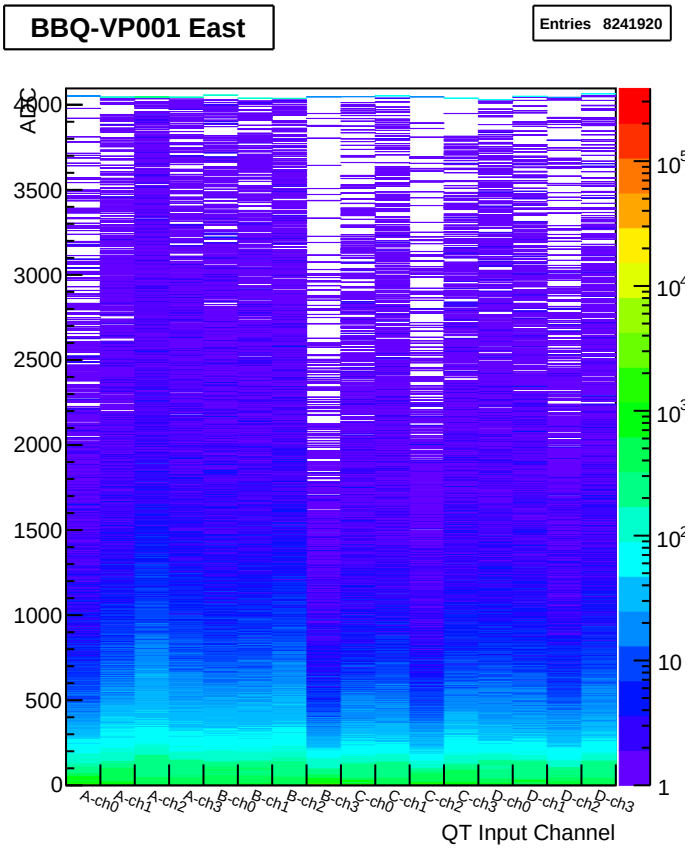

BBQ-BB002 (BBC west small tiles TAC)
Entries 8241920
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

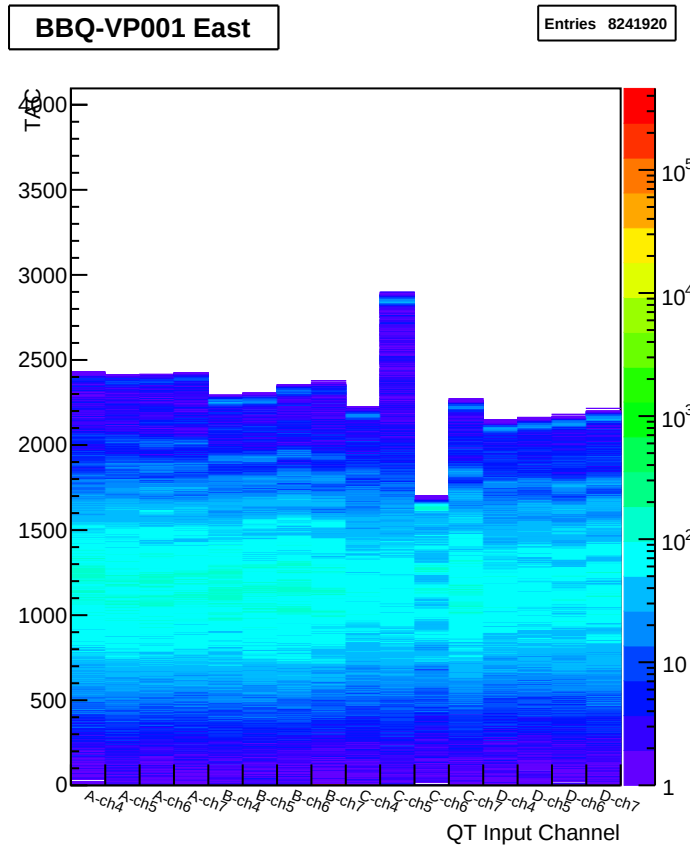

BBQ-ZD001 (ZDC TOWER)
Entries 8241920
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

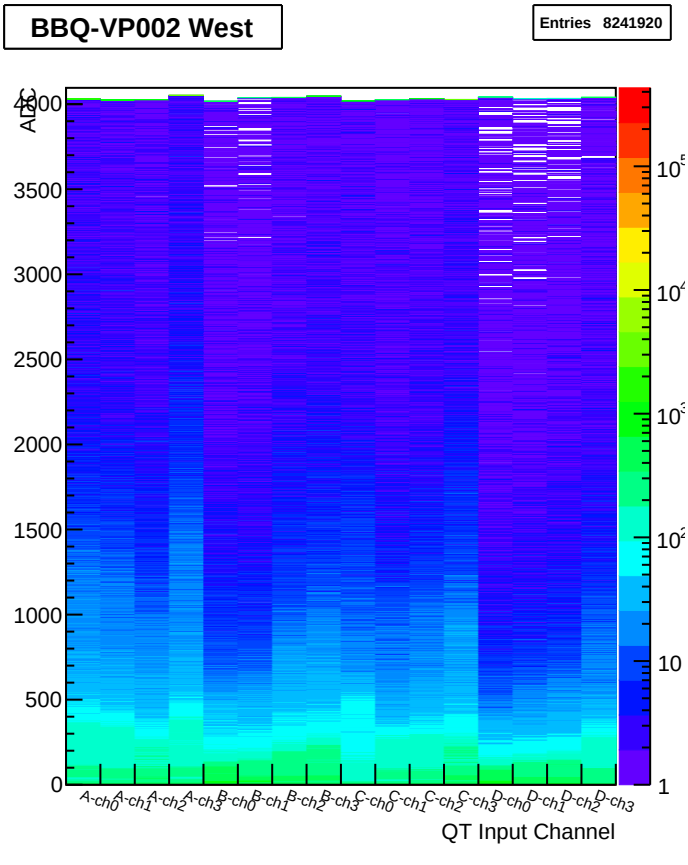

BBQ-ZD001 (ZDC TOWER)
Entries 8241920
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumATAC
W2TAC
W3TAC
W2ATAC

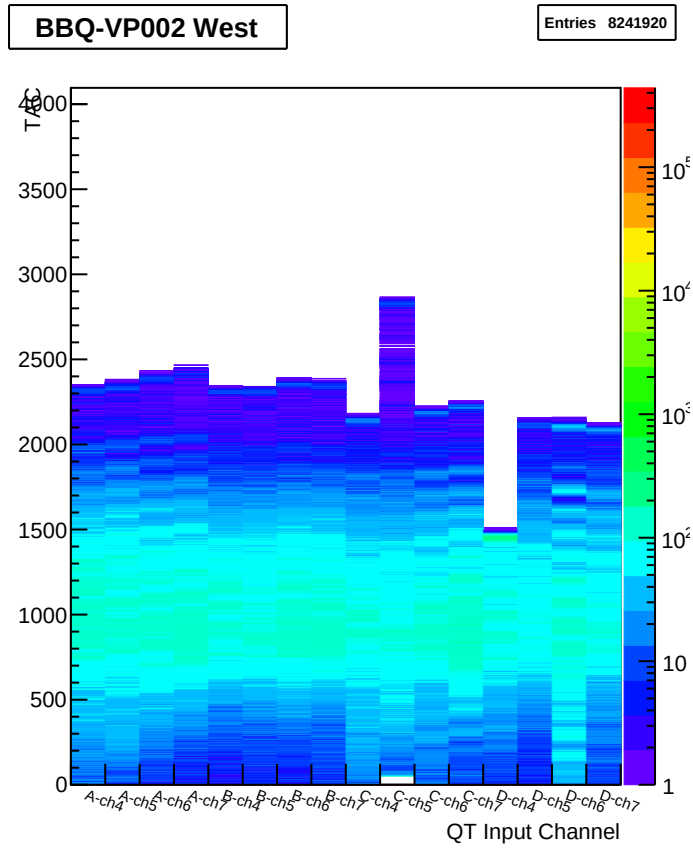

rawzdcEastTac
Entries 515120

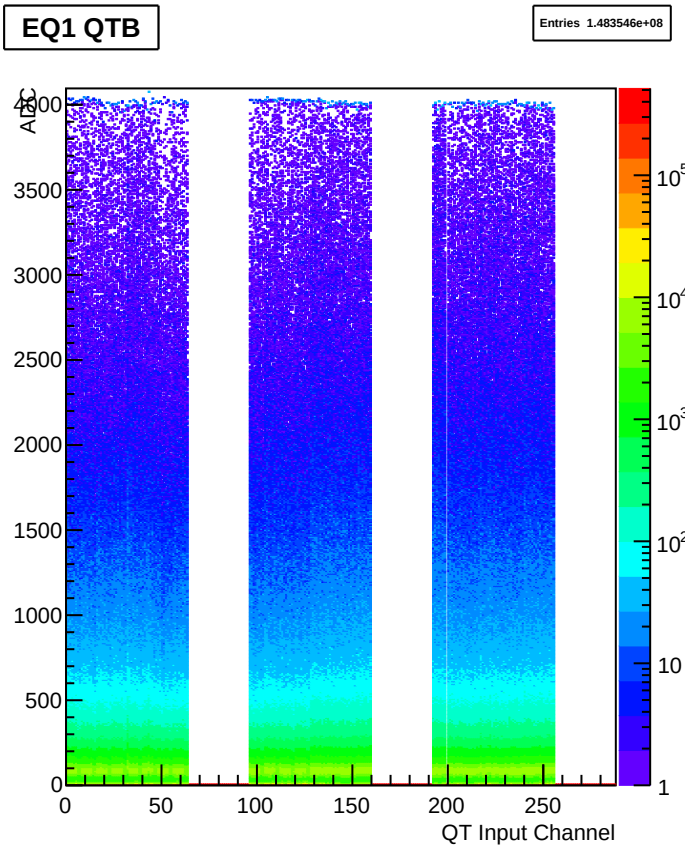

rawzdcWestTac
Entries 515120

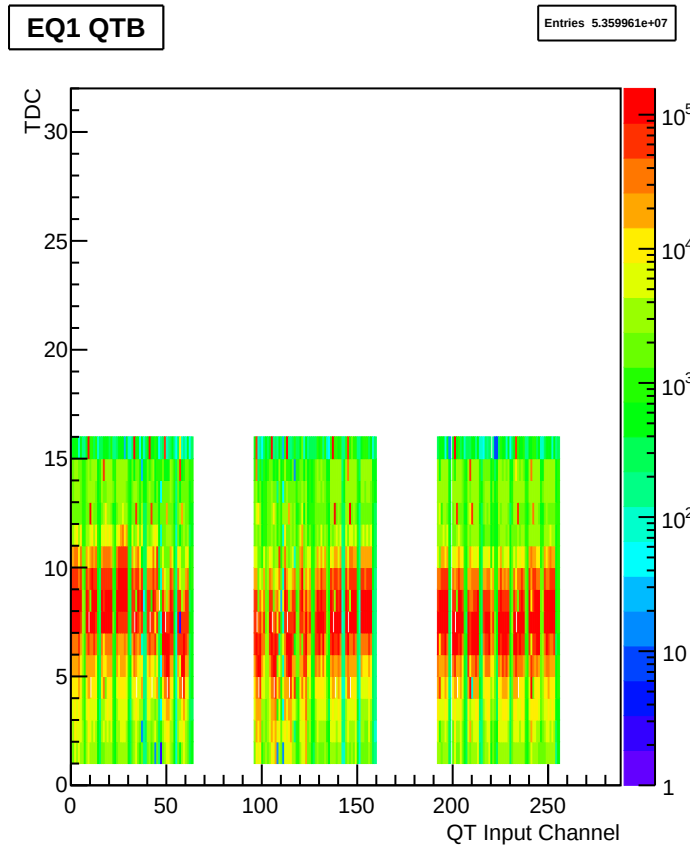

BBQ-VP001 East
Entries 8241920
ADC
QT Input Channel

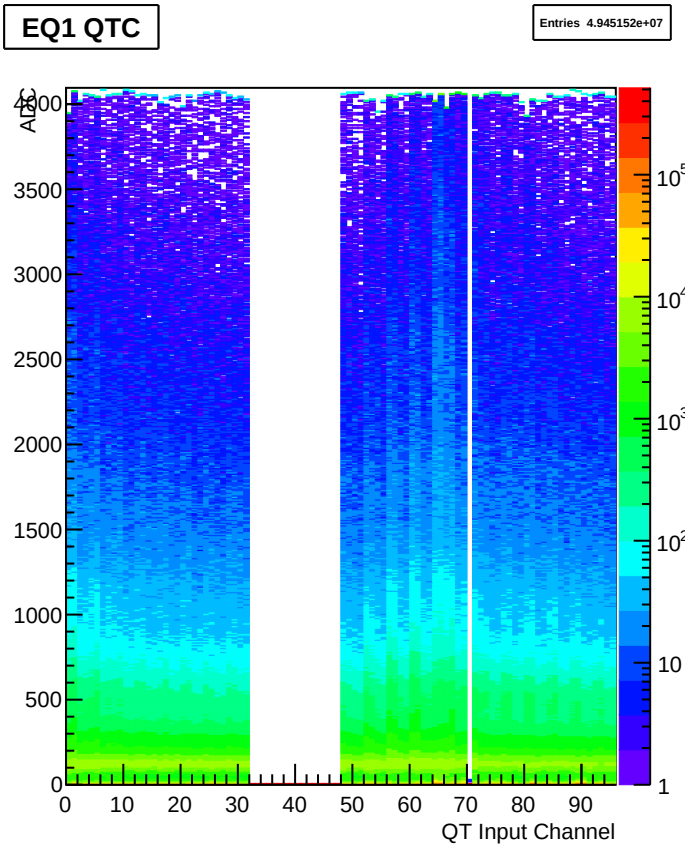

BBQ-VP001 East
Entries 8241920
ADC
QT Input Channel

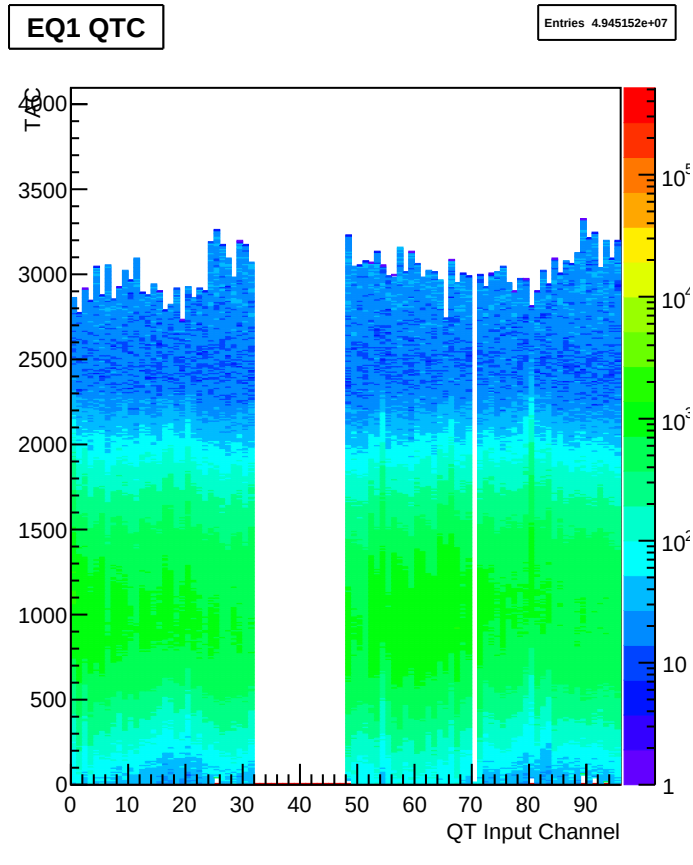

BBQ-VP002 West
Entries 8241920
ADC
QT Input Channel

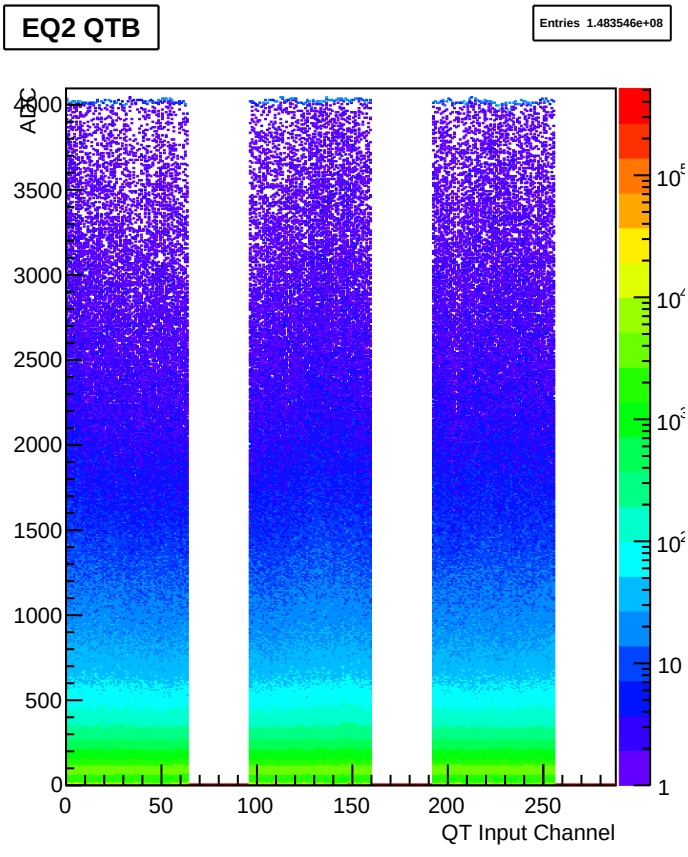

BBQ-VP002 West
Entries 8241920
ADC
QT Input Channel

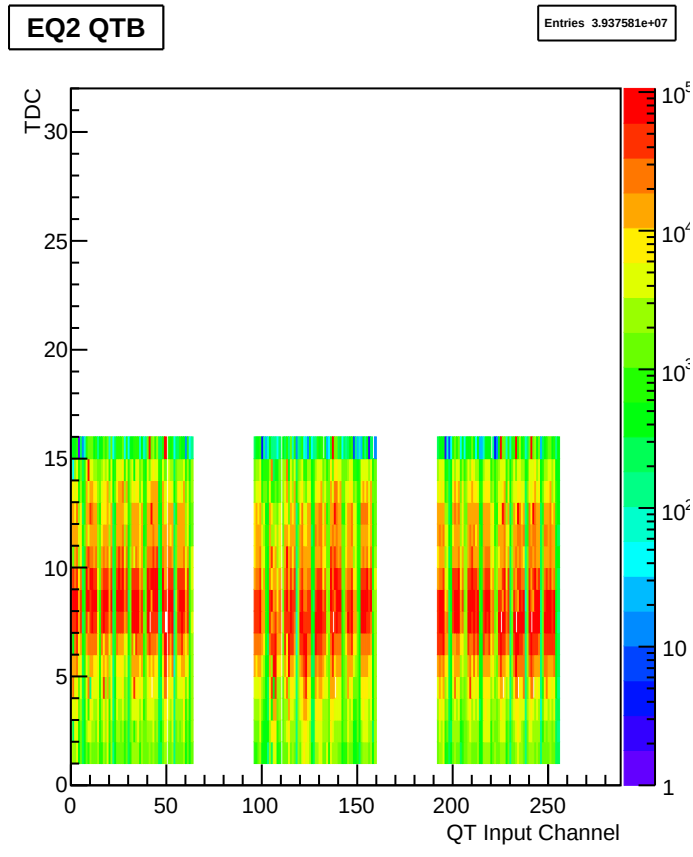

EQ1 QTB
Entries 1.483546e+08
ADC
QT Input Channel

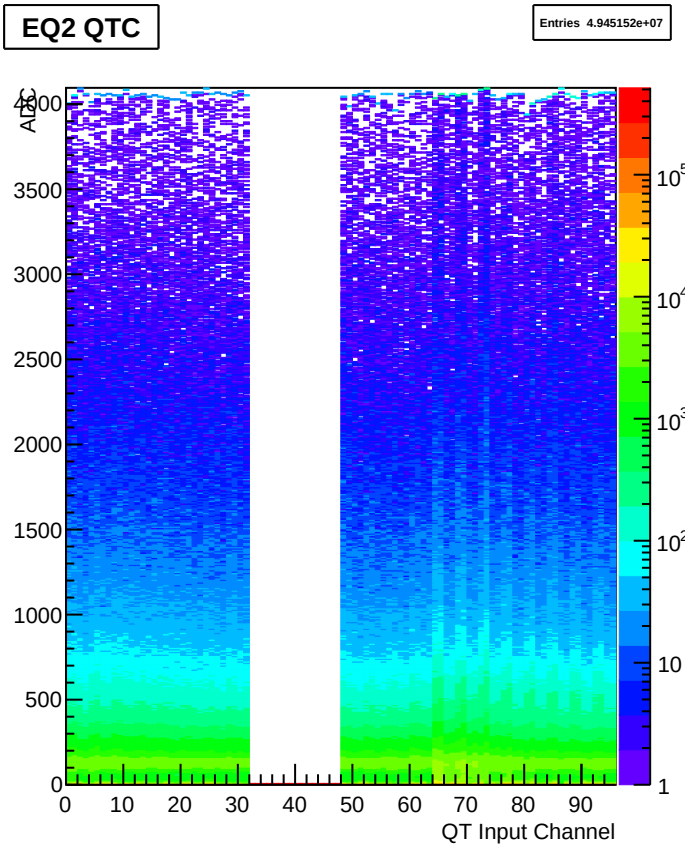

EQ1 QTB
Entries 5.359961e+07
TDC
QT Input Channel

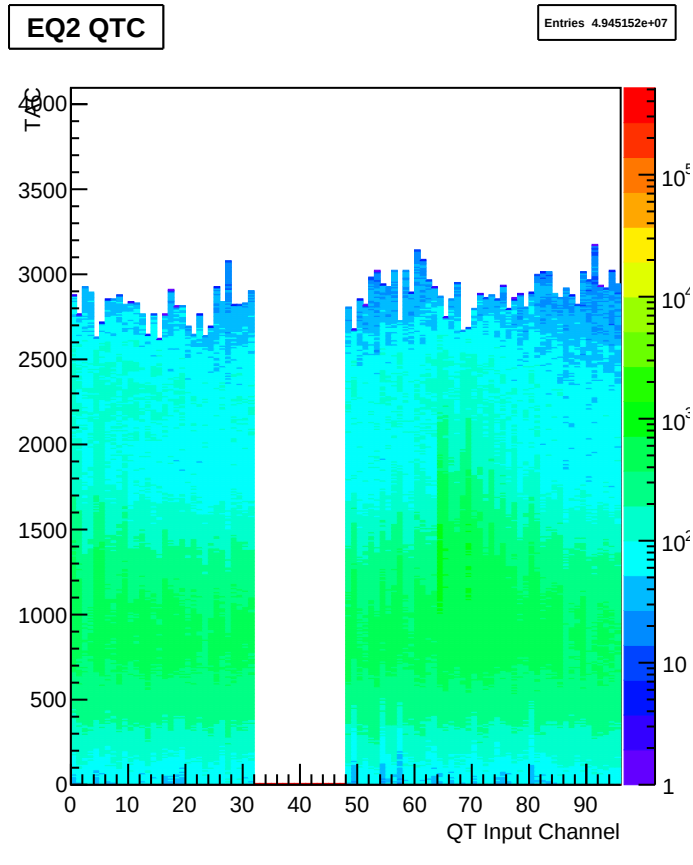

EQ1 QTC
Entries 4.945152e+07
ADC
QT Input Channel

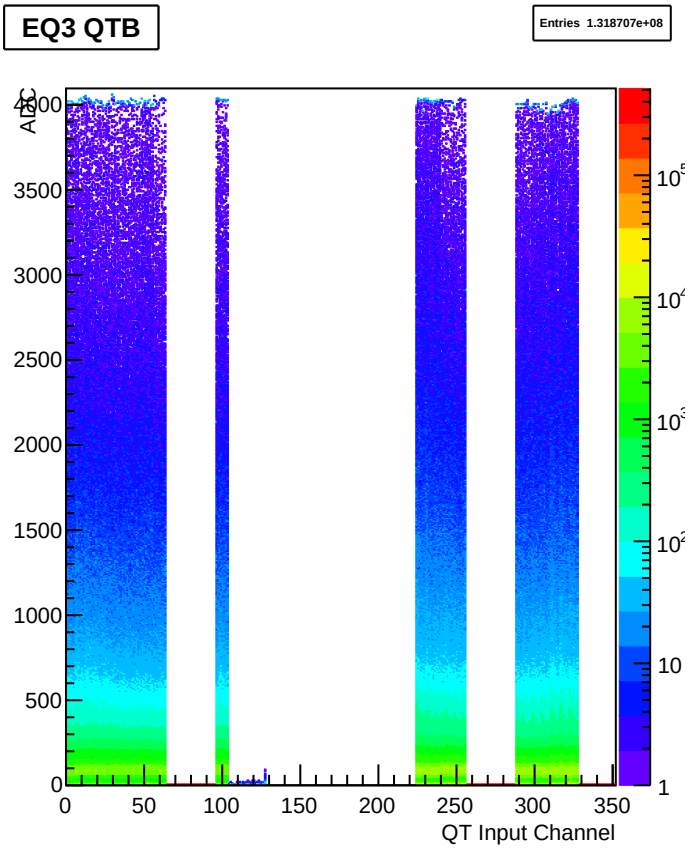

EQ1 QTC
Entries 4.945152e+07
TADC
QT Input Channel

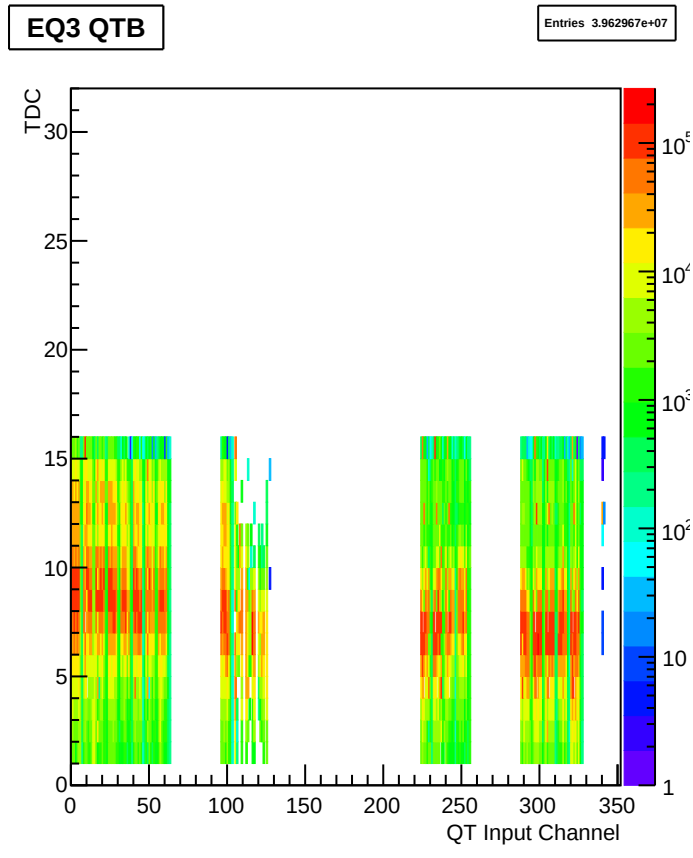

EQ2 QTB
Entries 1.483546e+08
ADC
QT Input Channel

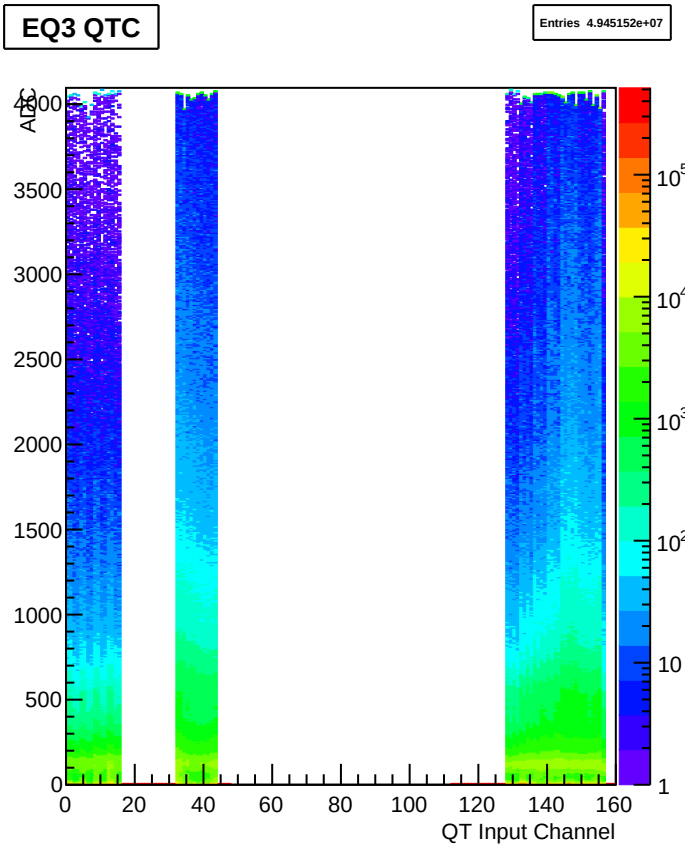

EQ2 QTB
Entries 3.937581e+07
TDC
QT Input Channel

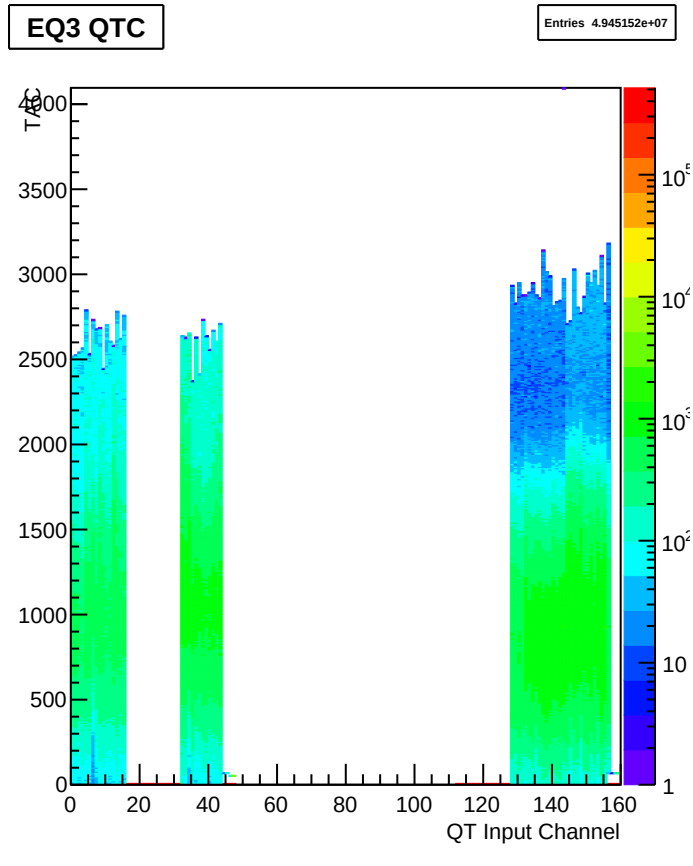

EQ2 QTC
Entries 4.945152e+07
ADC
QT Input Channel

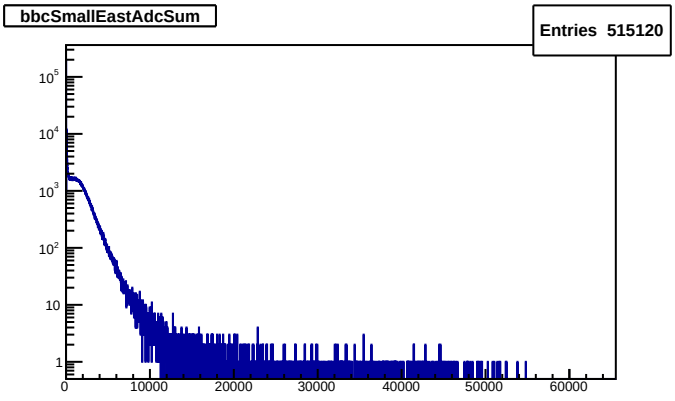

EQ2 QTC
Entries 4.945152e+07
TADC
QT Input Channel

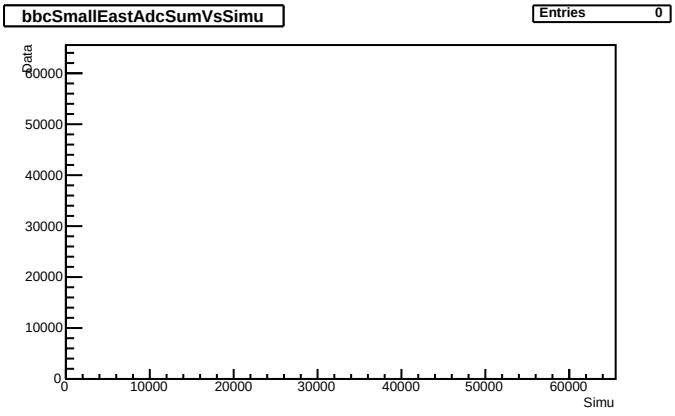

EQ3 QTB
Entries 1.318707e+08
ADC
QT Input Channel

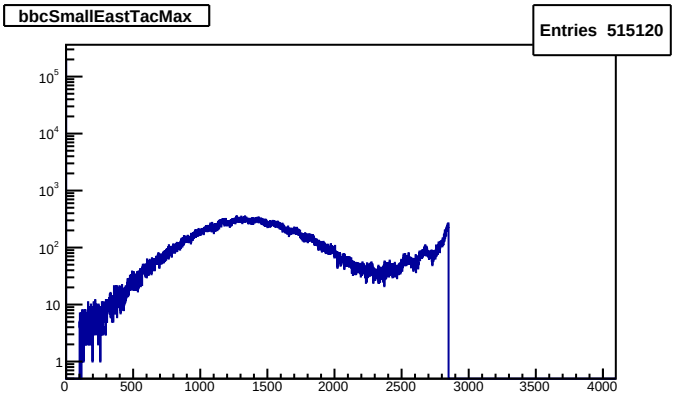

EQ3 QTB
Entries 3.962967e+07
TDC
QT Input Channel

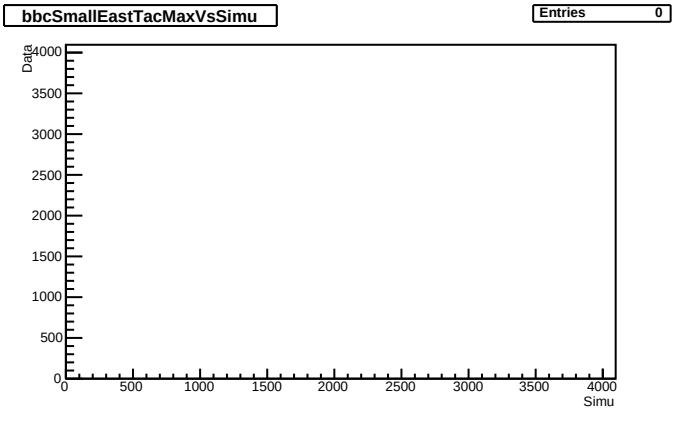

EQ3 QTC
Entries 4.945152e+07
ADC
QT Input Channel


EQ3 QTC
Entries 4.945152e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 515120


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 515120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Entries 0
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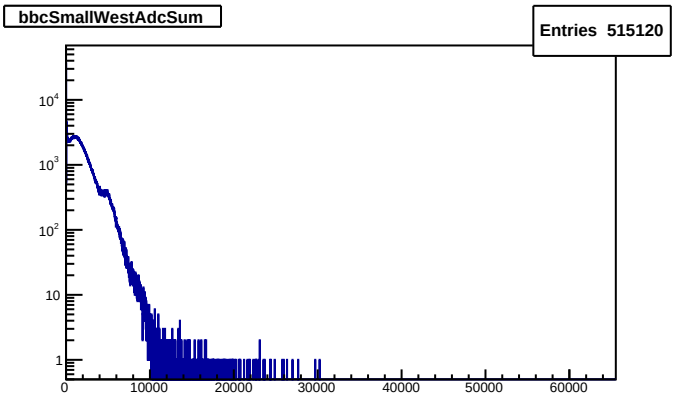
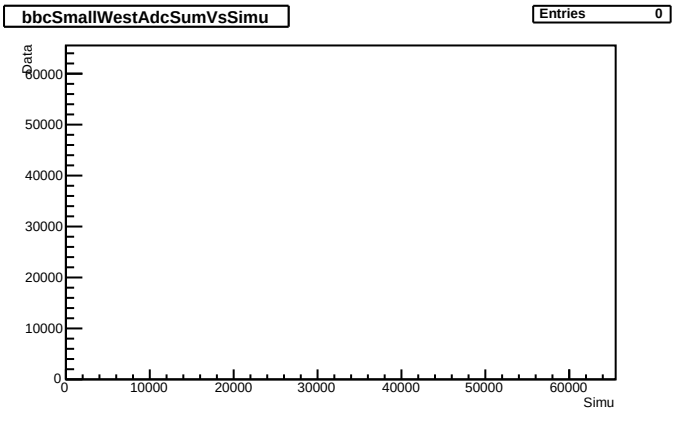
Simu


bbcSmallWestAdcSum
Entries 515120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Entries 0
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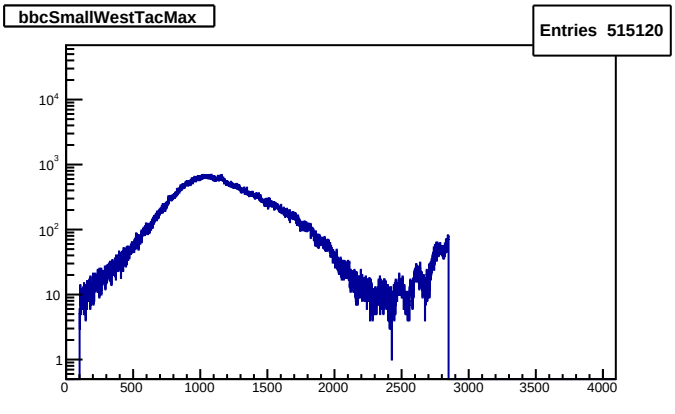
Simu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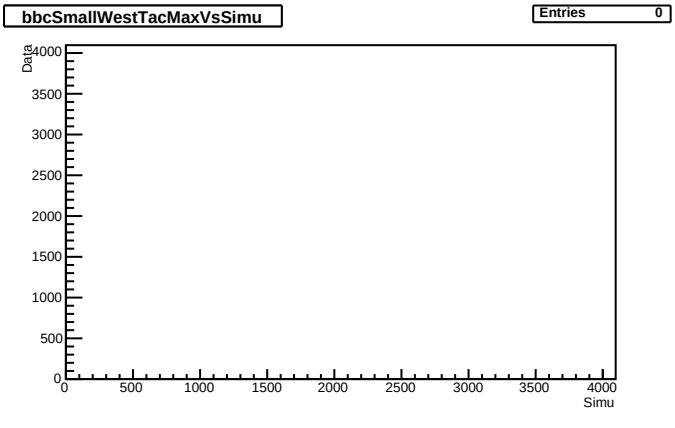
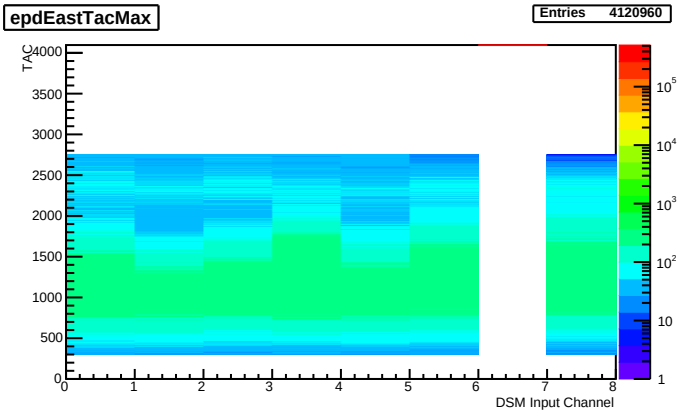
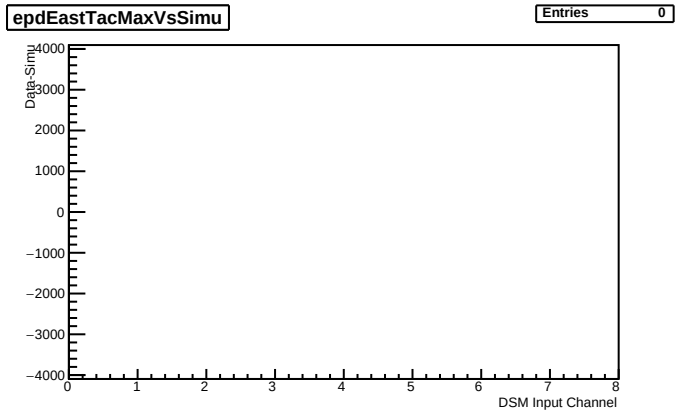
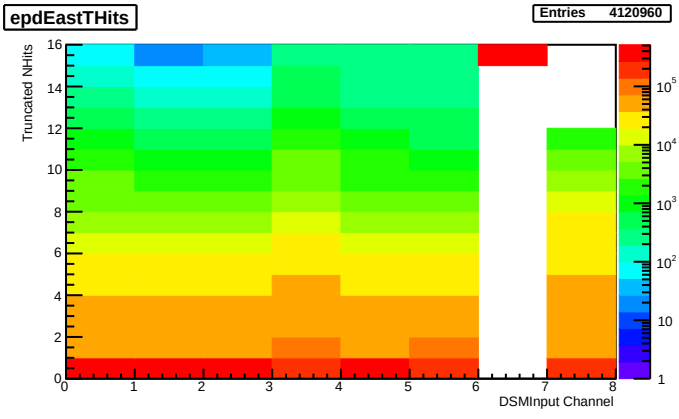
Entries 515120


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 4120960
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel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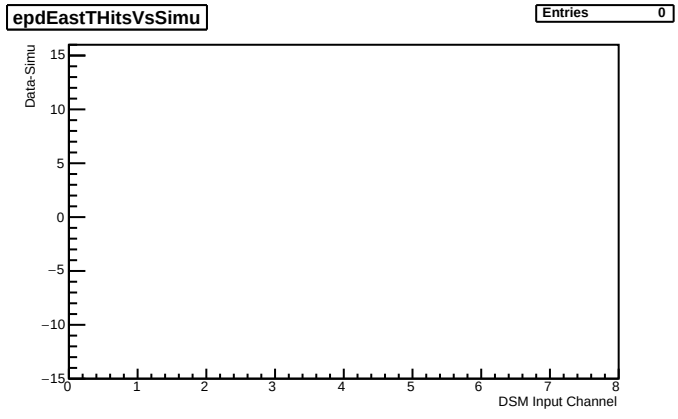
Entries 4120960
Truncated NHits
DSMInput Channel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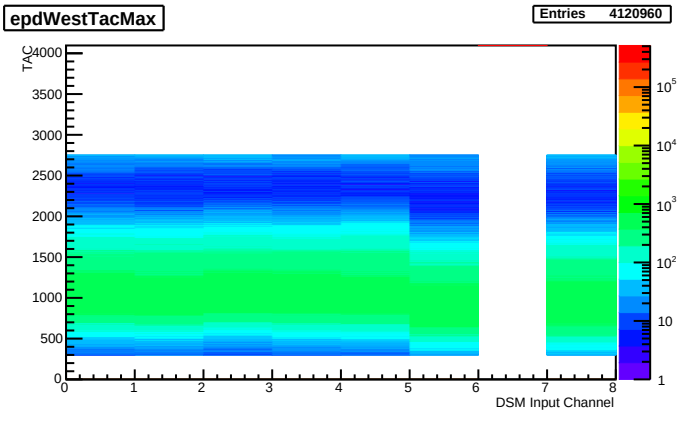
DSM Input Channel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Entries 4120960
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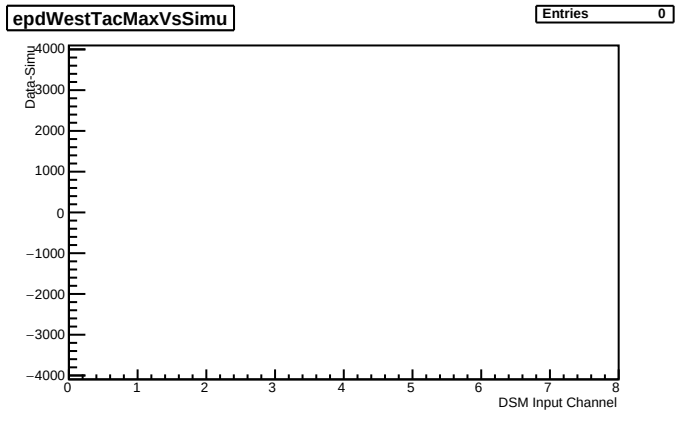
DSM Input Channel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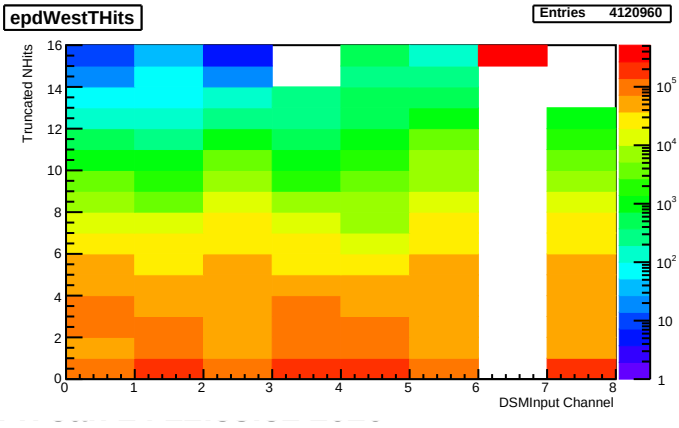
Entries 0
Data-Simu
DSM Input Channel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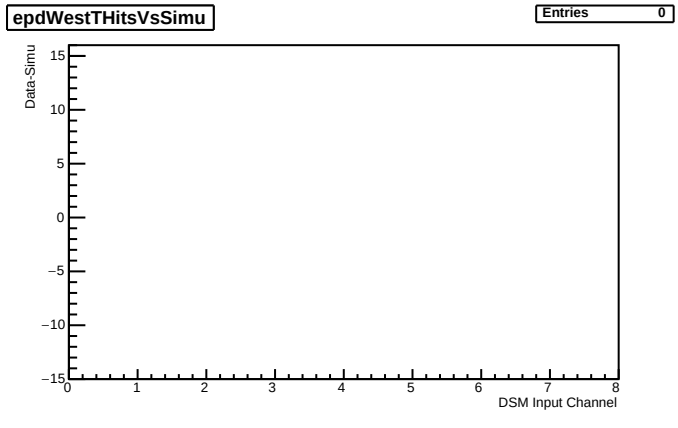
Entries 4120960
Truncated NHits
DSMInput Channel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Entries 0
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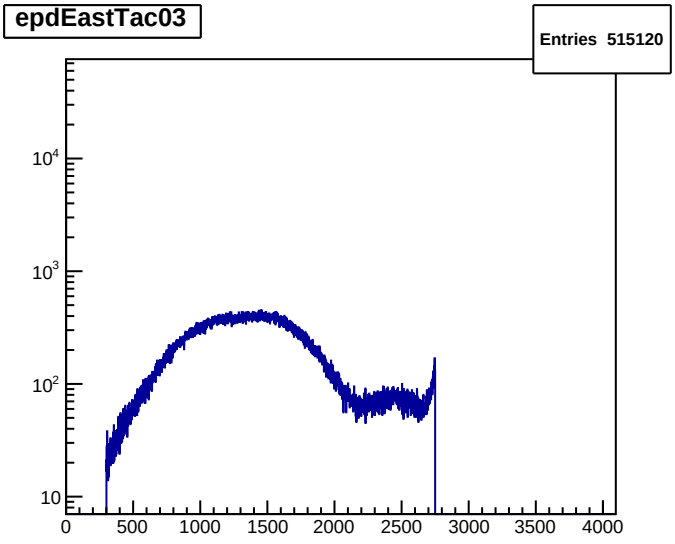
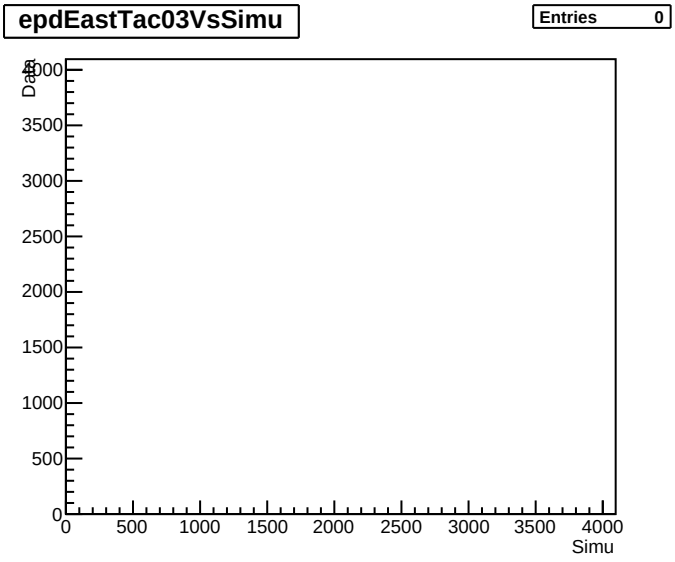
DSM Input Channel


epdEastTac03
Entries 515120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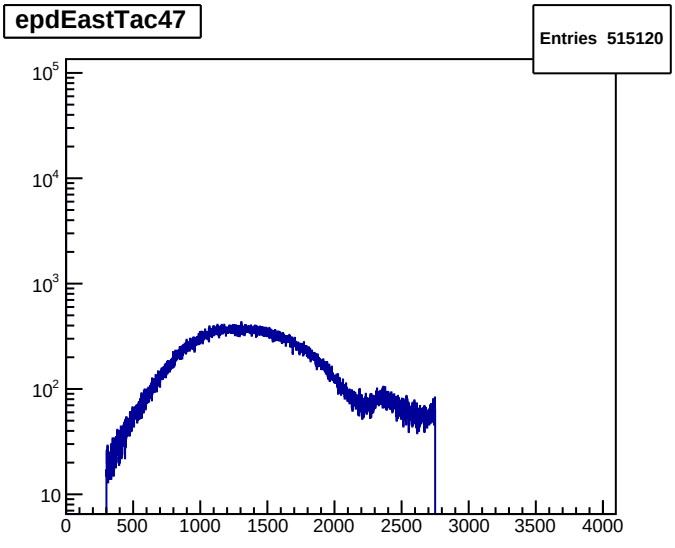
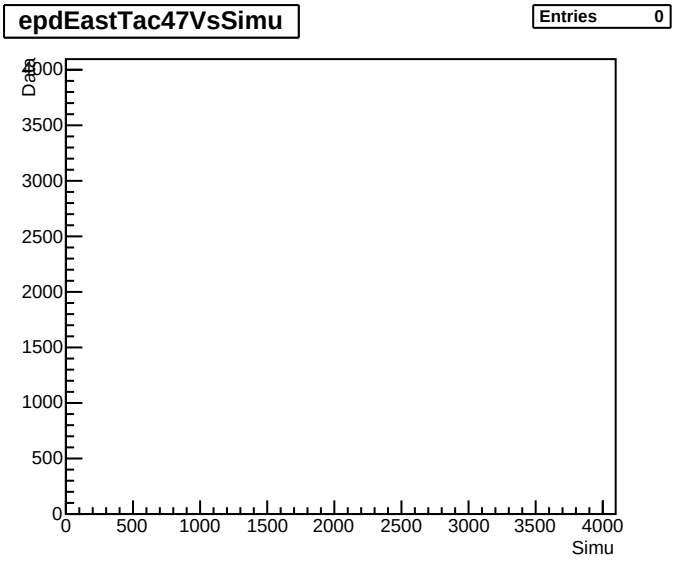
Entries 0
Data
Simu


epdEastTac47
Entries 515120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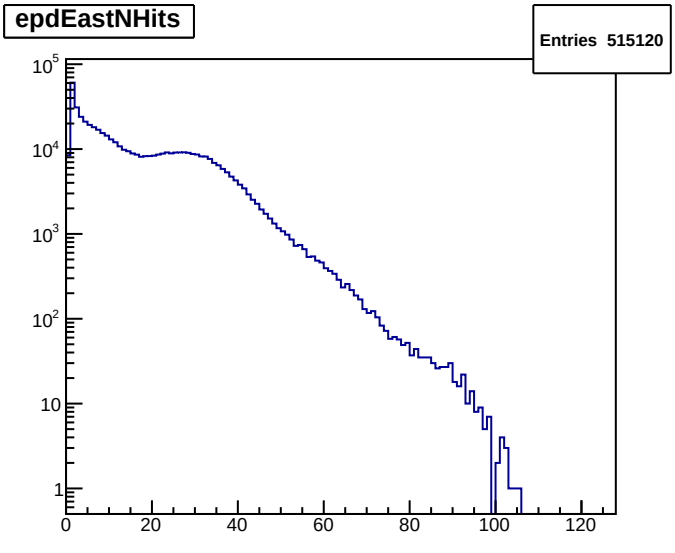
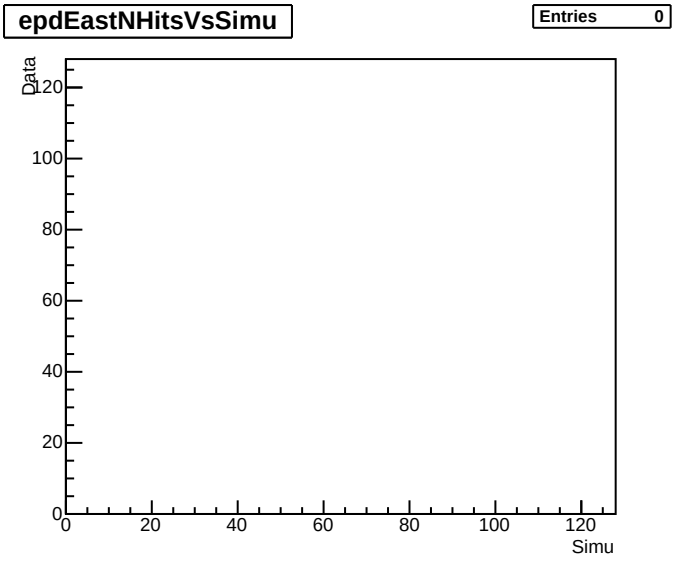
Entries 0
Data
Simu


epdEastNHits
Entries 515120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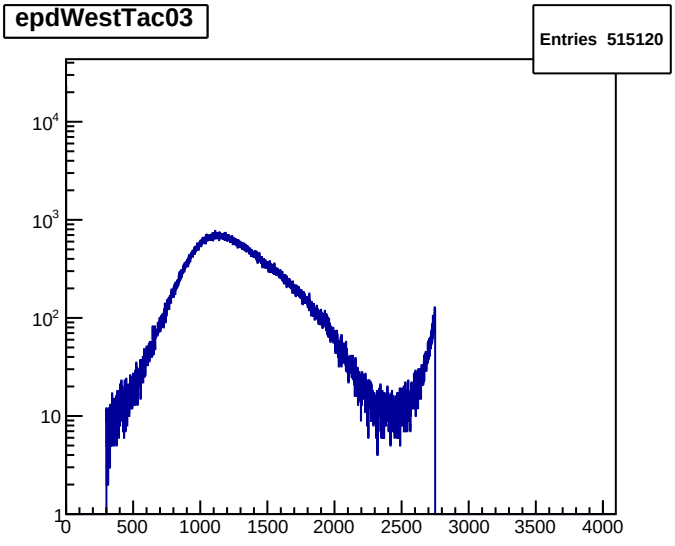
Entries 0
Data
Simu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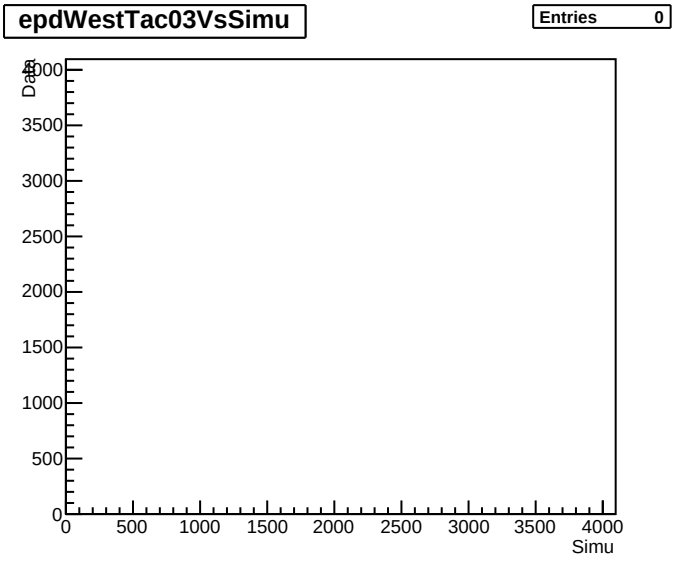
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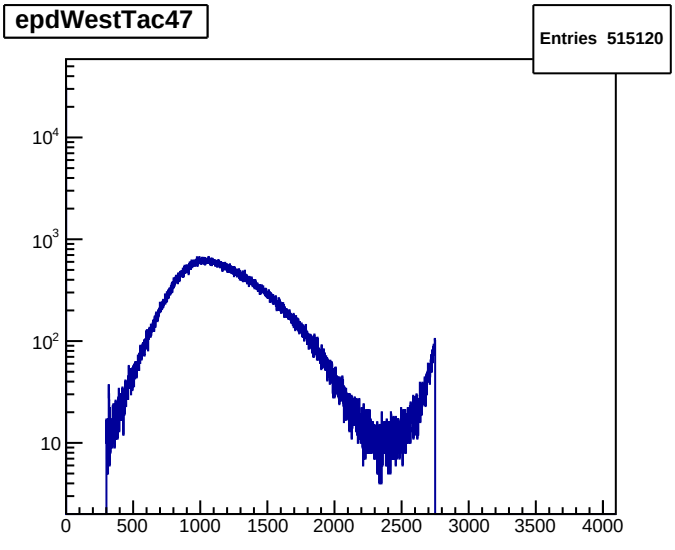
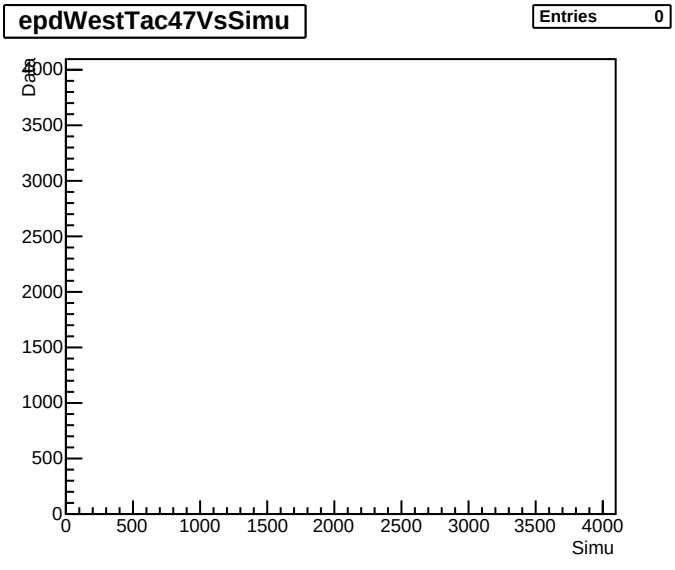
Entries 0
Data
Simu


epdWestTac47
Entries 515120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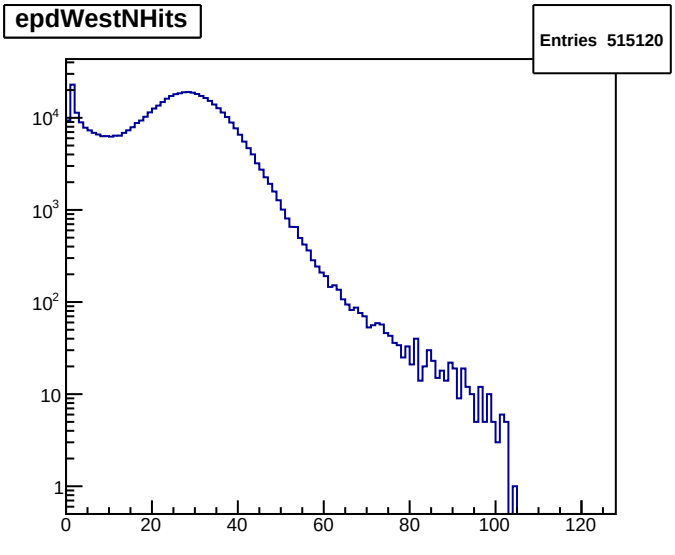
Data
Simu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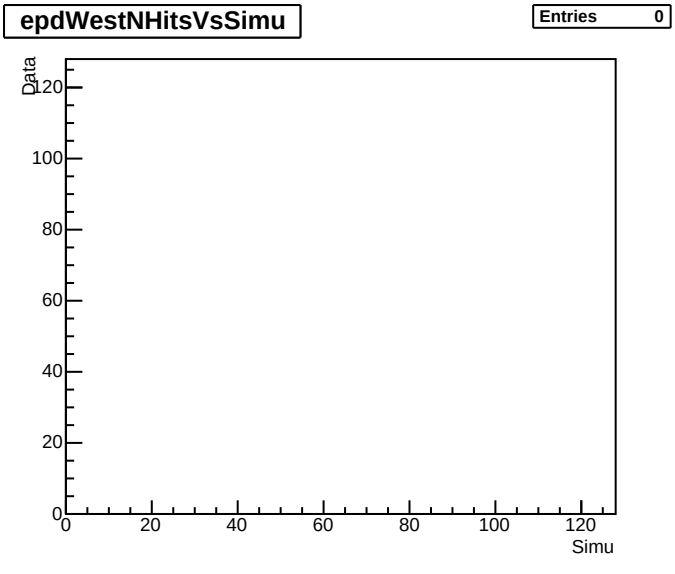
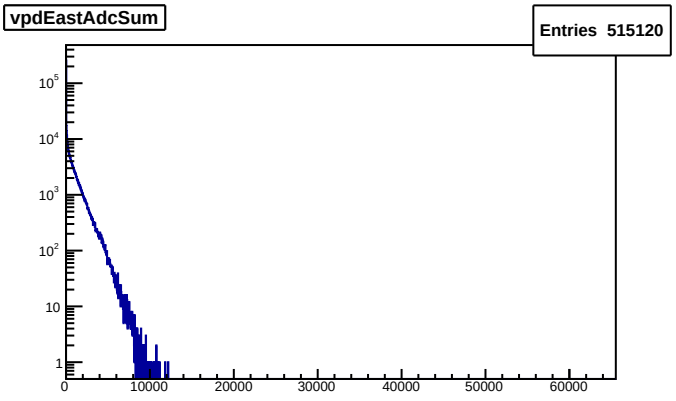
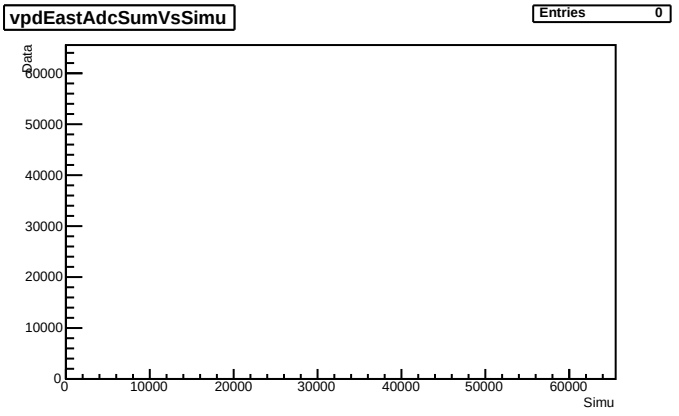
Entries 515120


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 515120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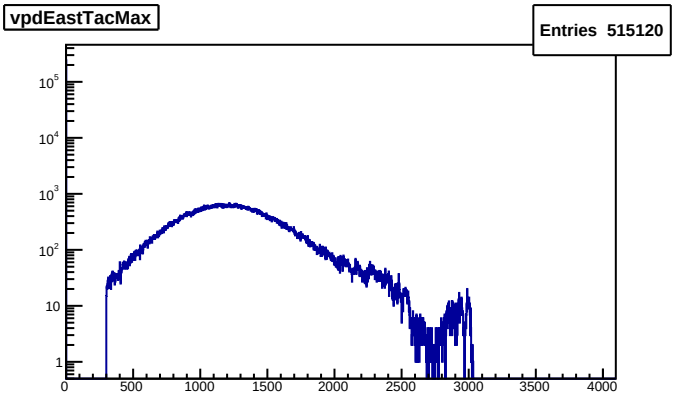
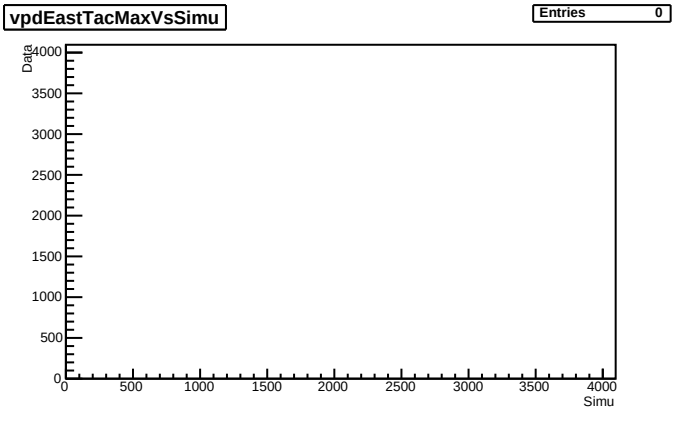
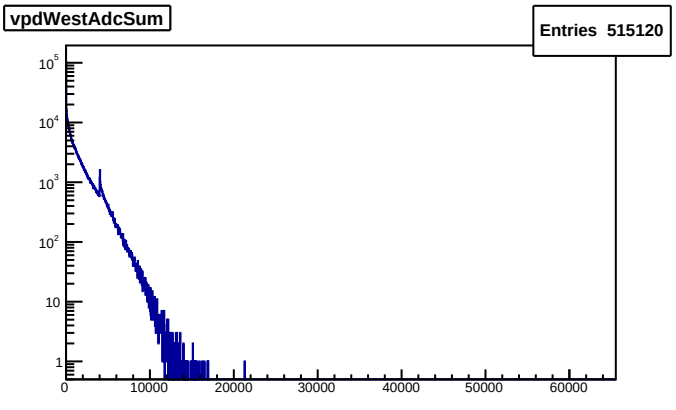
Entries 0
Data
Simu


vpdEastTacMax
Entries 515120


vpdEastTacMaxVsSimu
Entries 0
Data
Simu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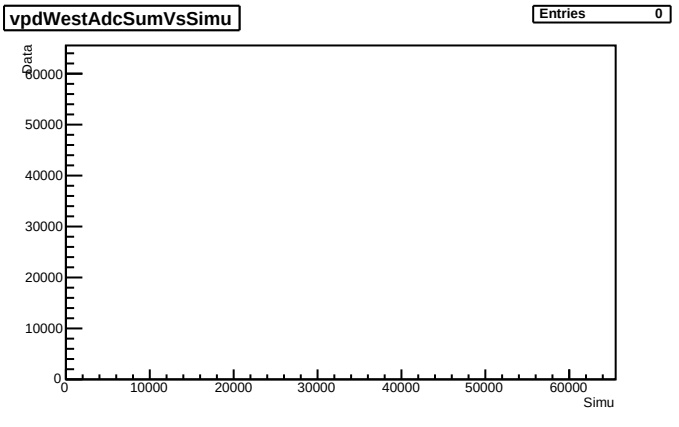
Entries 515120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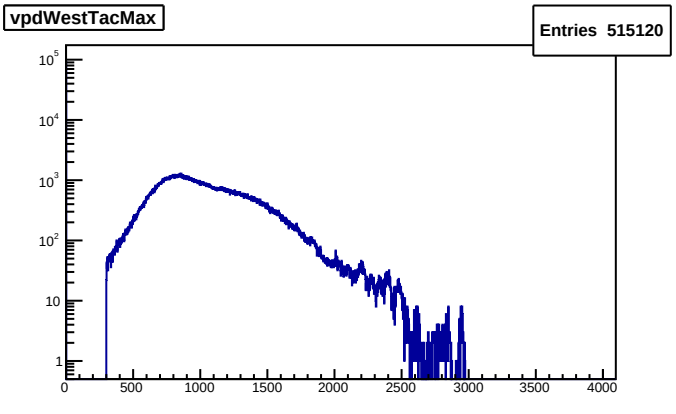
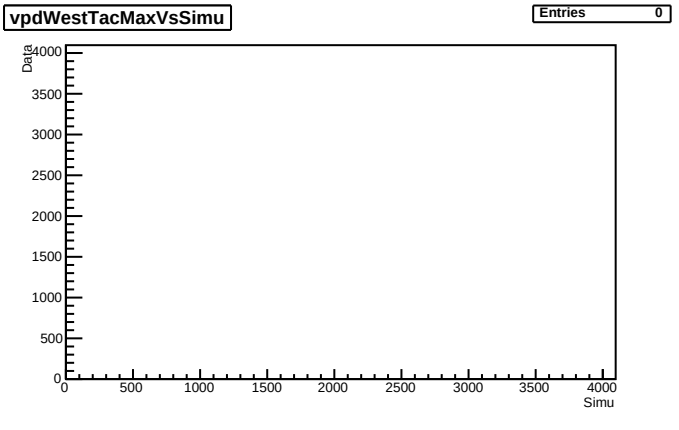
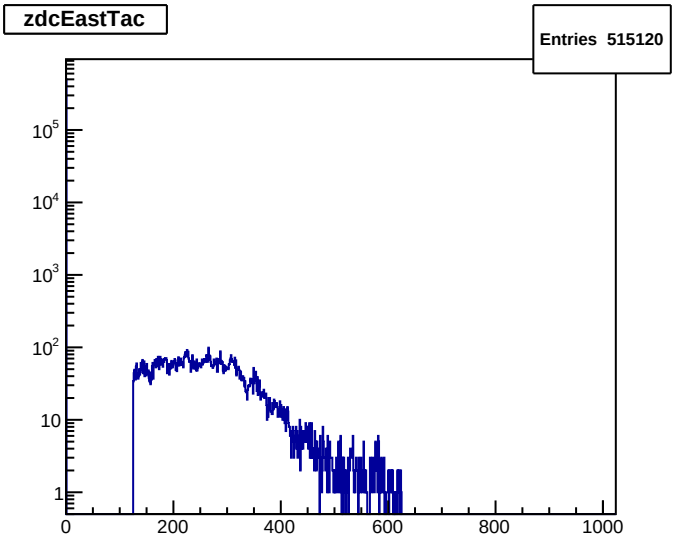
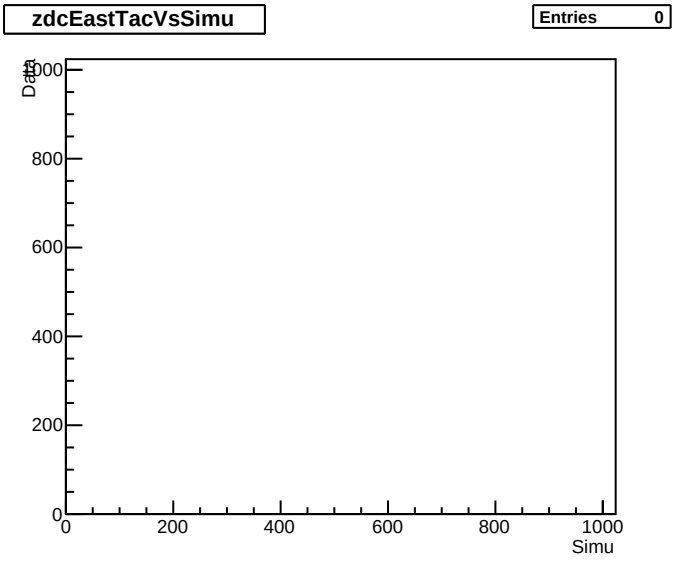
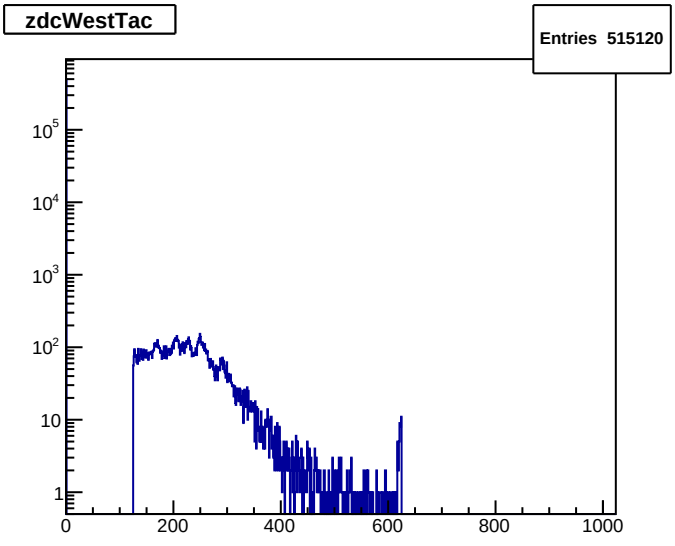
Entries 0
Data
Simu

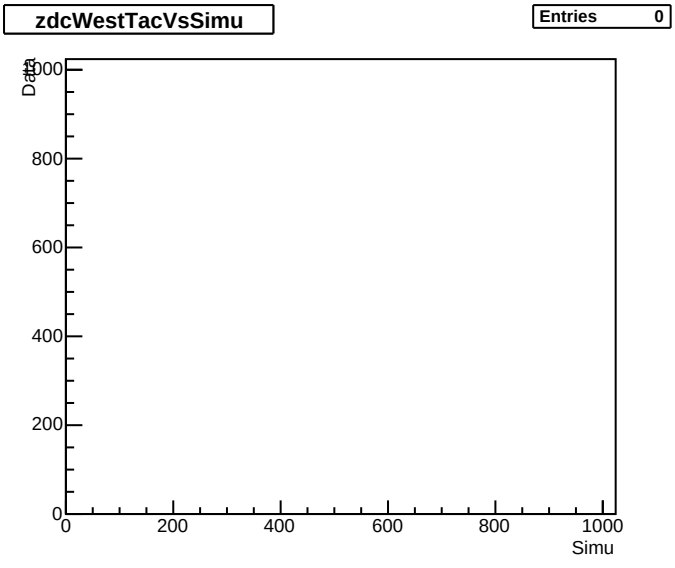

vpdWestTacMax
Entries 515120

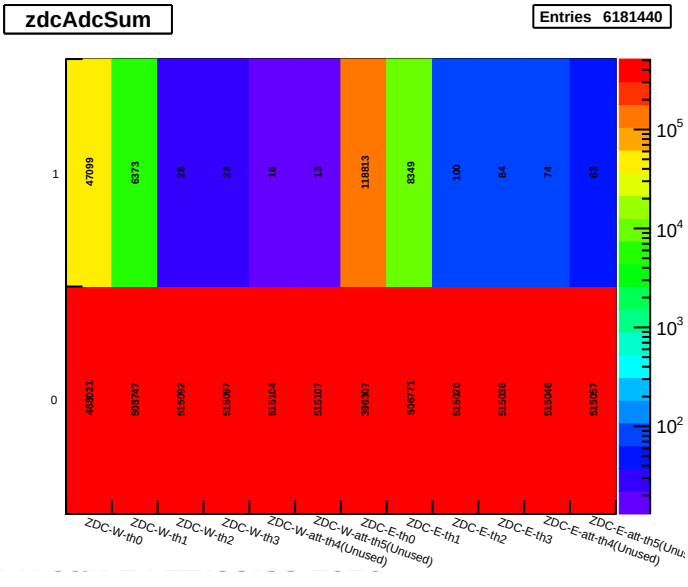

vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 515120
10^5
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 515120
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 6181440
1
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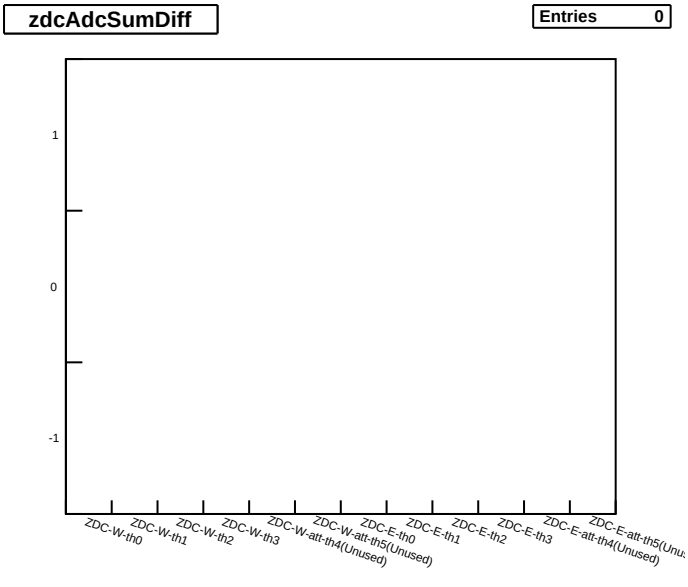
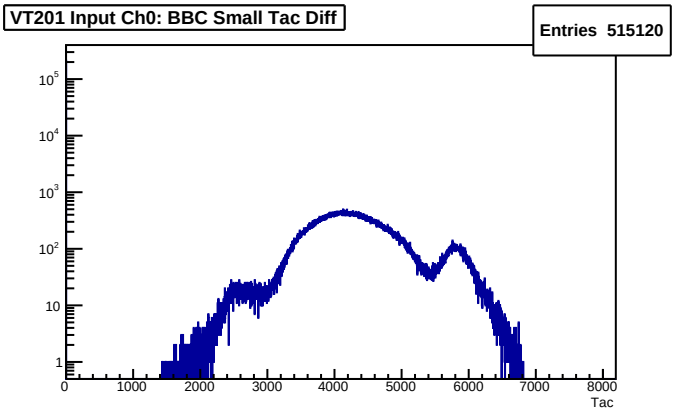
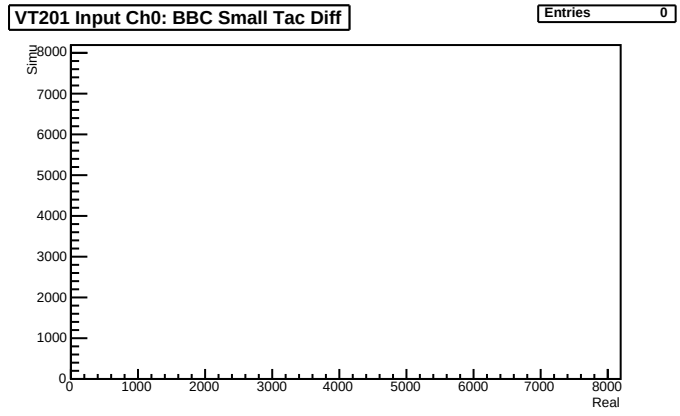
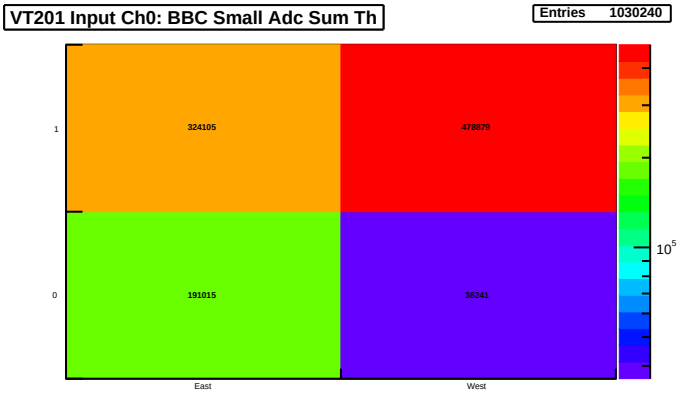
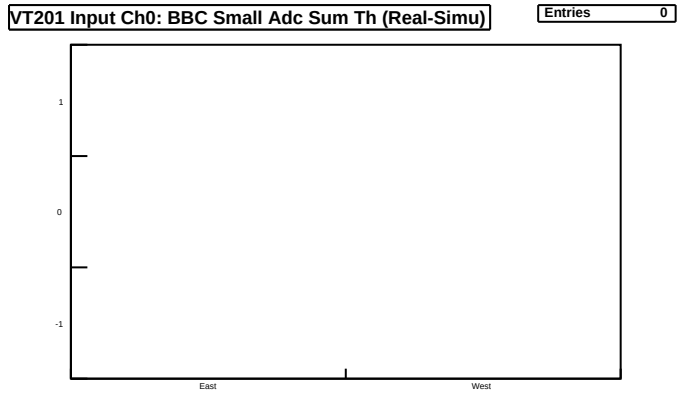
47099
6373
28
23
16
13
118813
8349
100
84
74
63
468021
508747
515092
515097
515104
515107
396307
506771
515020
515036
515046
515057
10^5
10^4
10^3
10^2
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

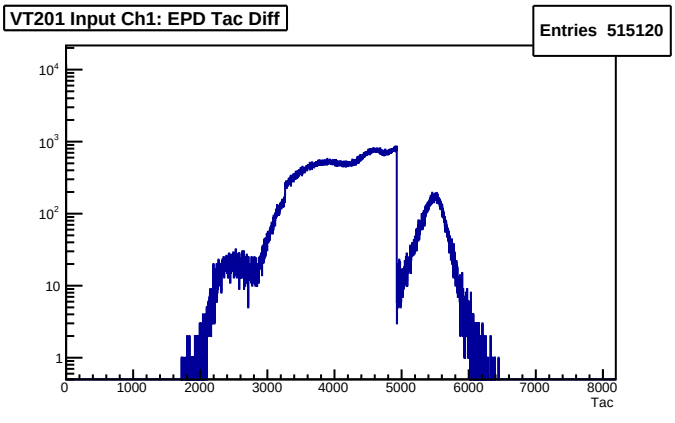

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

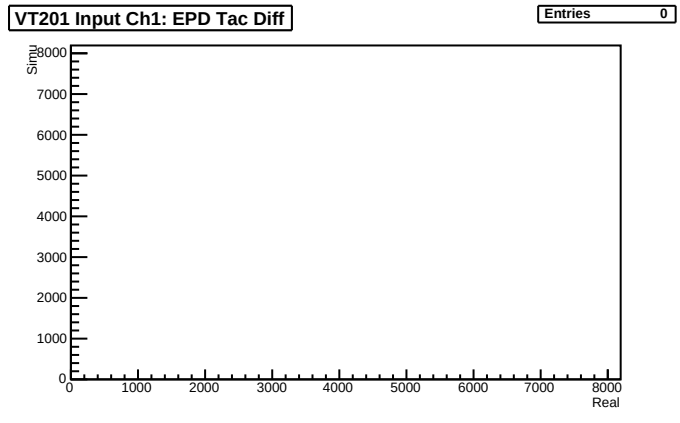

VT201 Input Ch0: BBC Small Tac Diff
Entries 515120
Tac

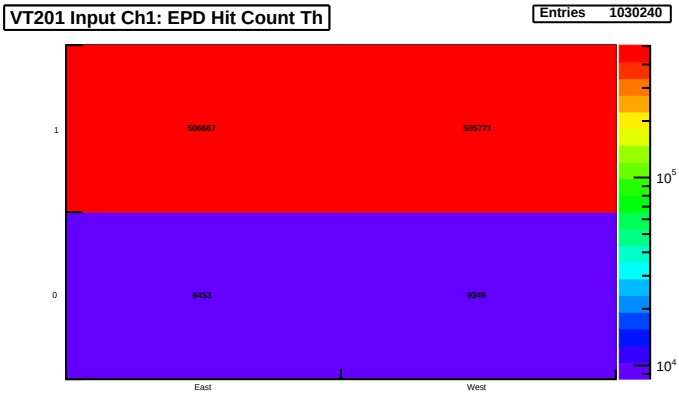

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

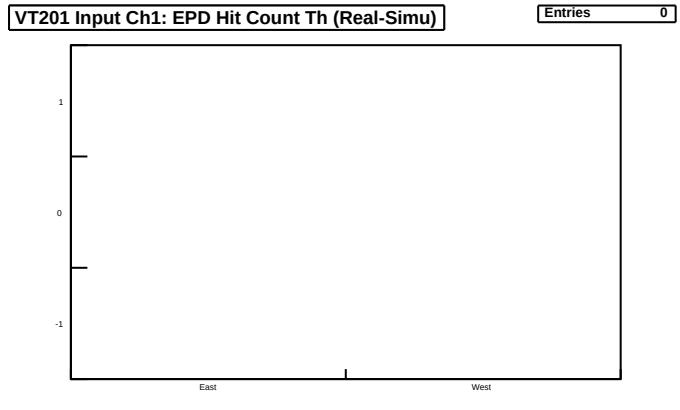

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1030240
324105
478879
191015
36241
East
West

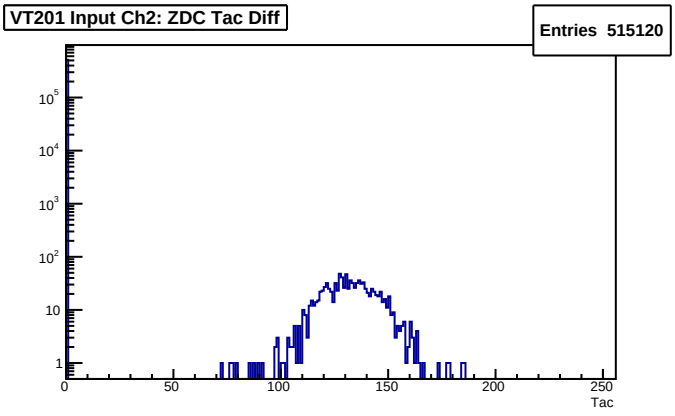

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

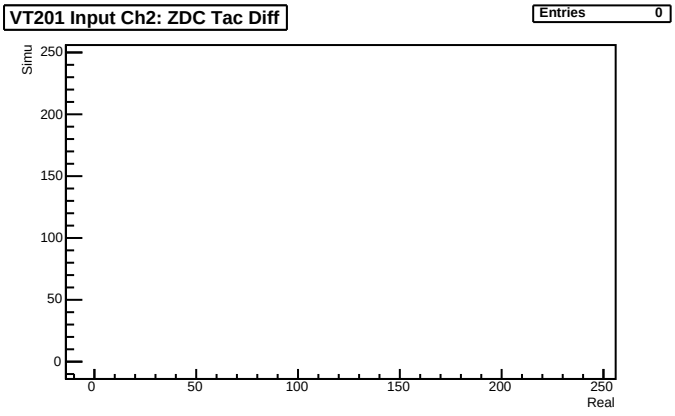

VT201 Input Ch1: EPD Tac Diff
Entries 515120
Tac

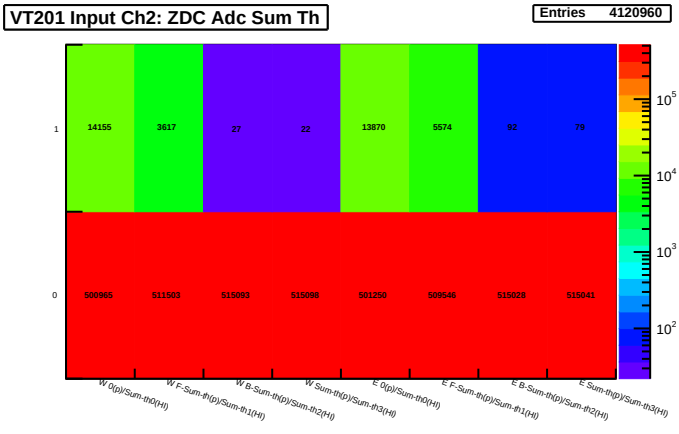

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

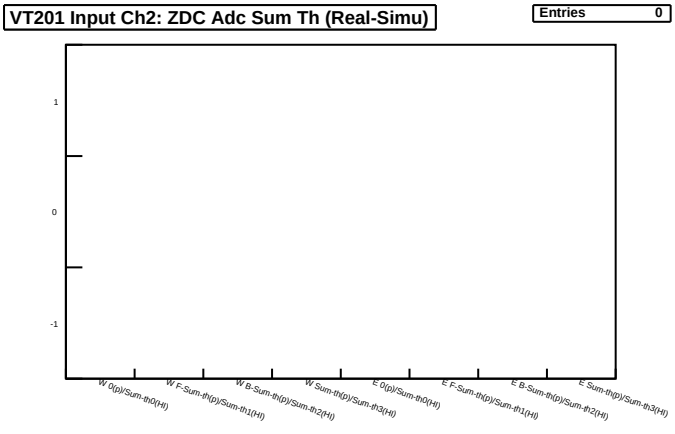

VT201 Input Ch1: EPD Hit Count Th
Entries 1030240
506667
505771
8453
9349
East
West

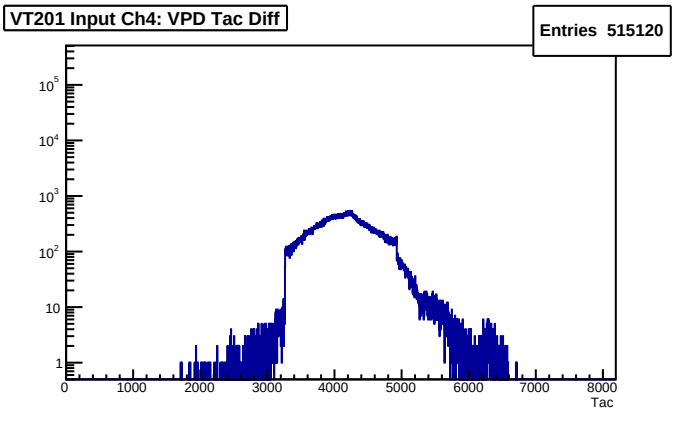

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

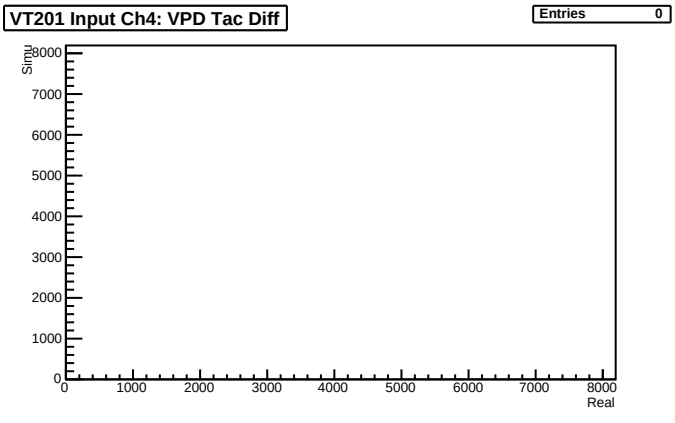

VT201 Input Ch2: ZDC Tac Diff
Entries 515120
Tac

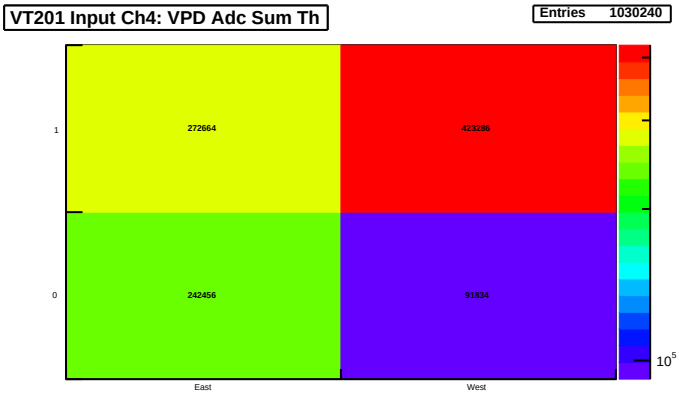

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

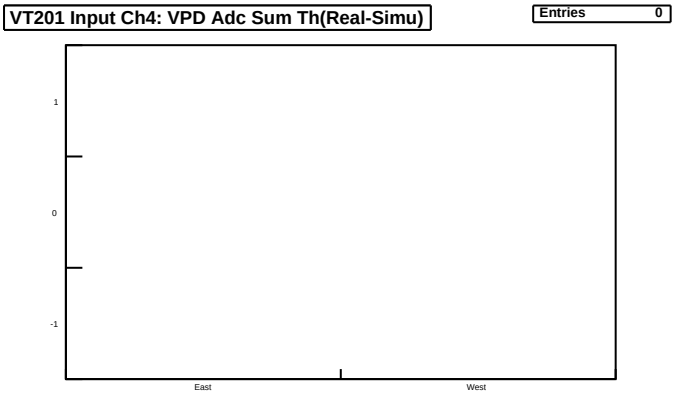

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4120960
14155
3617
27
22
13870
5574
92
79
500965
511503
515093
515098
501250
509546
515028
515041
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

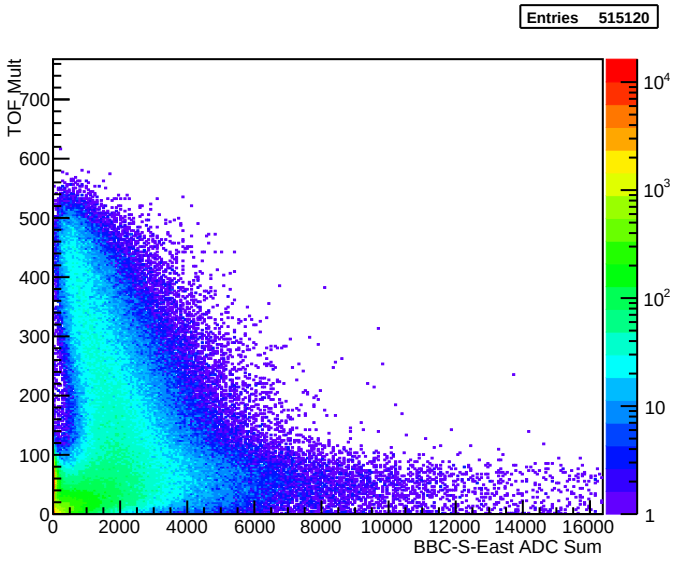

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

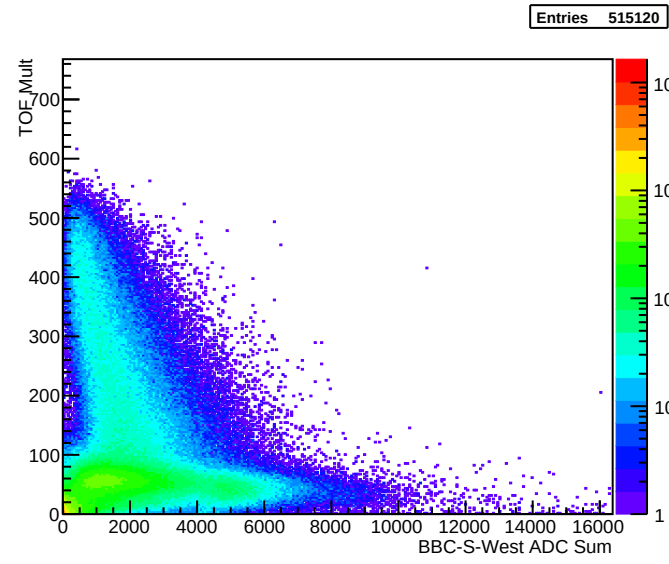

VT201 Input Ch4: VPD Tac Diff
Entries 515120
Tac

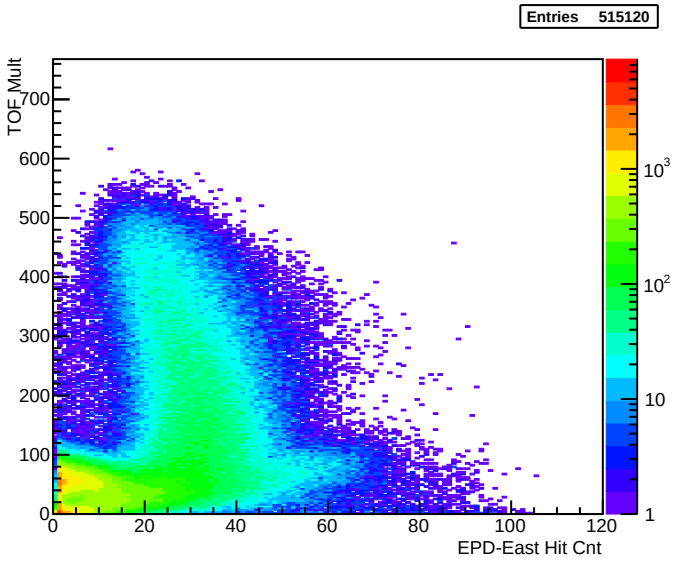

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

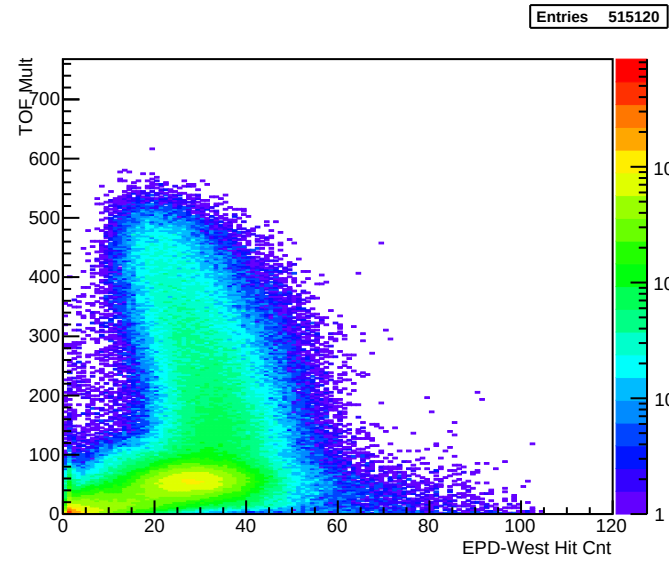

VT201 Input Ch4: VPD Adc Sum Th
Entries 1030240
272664
423286
242456
91834
East
West

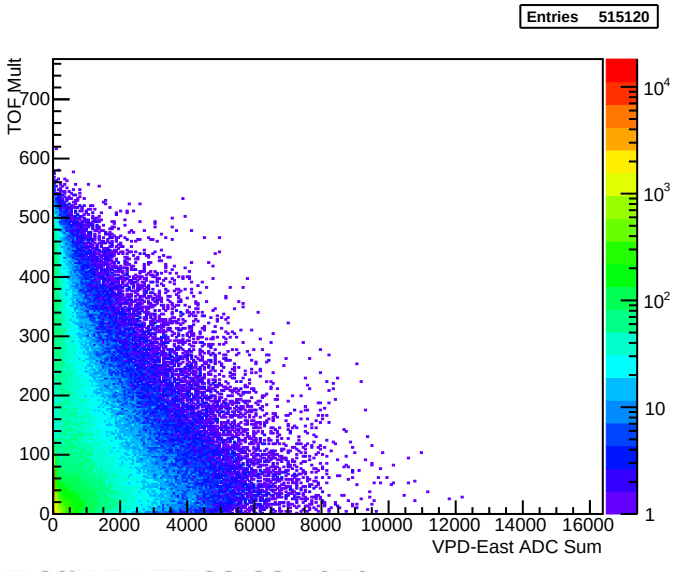

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

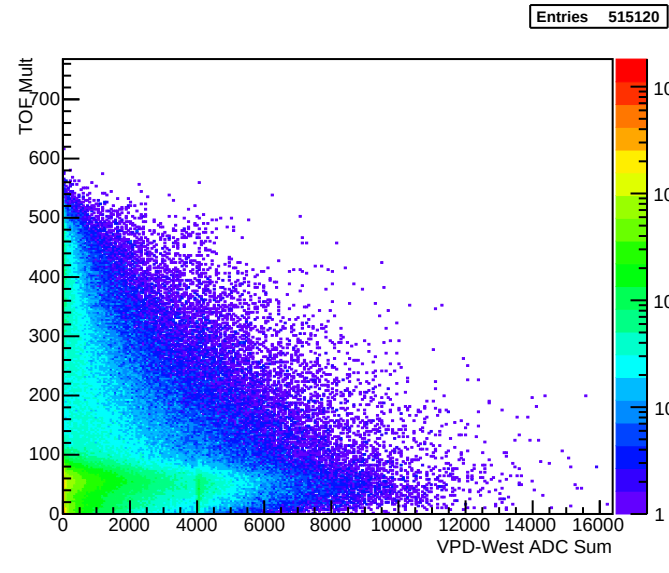

Entries 515120
TOF_Mult
BBC-S-East ADC Sum

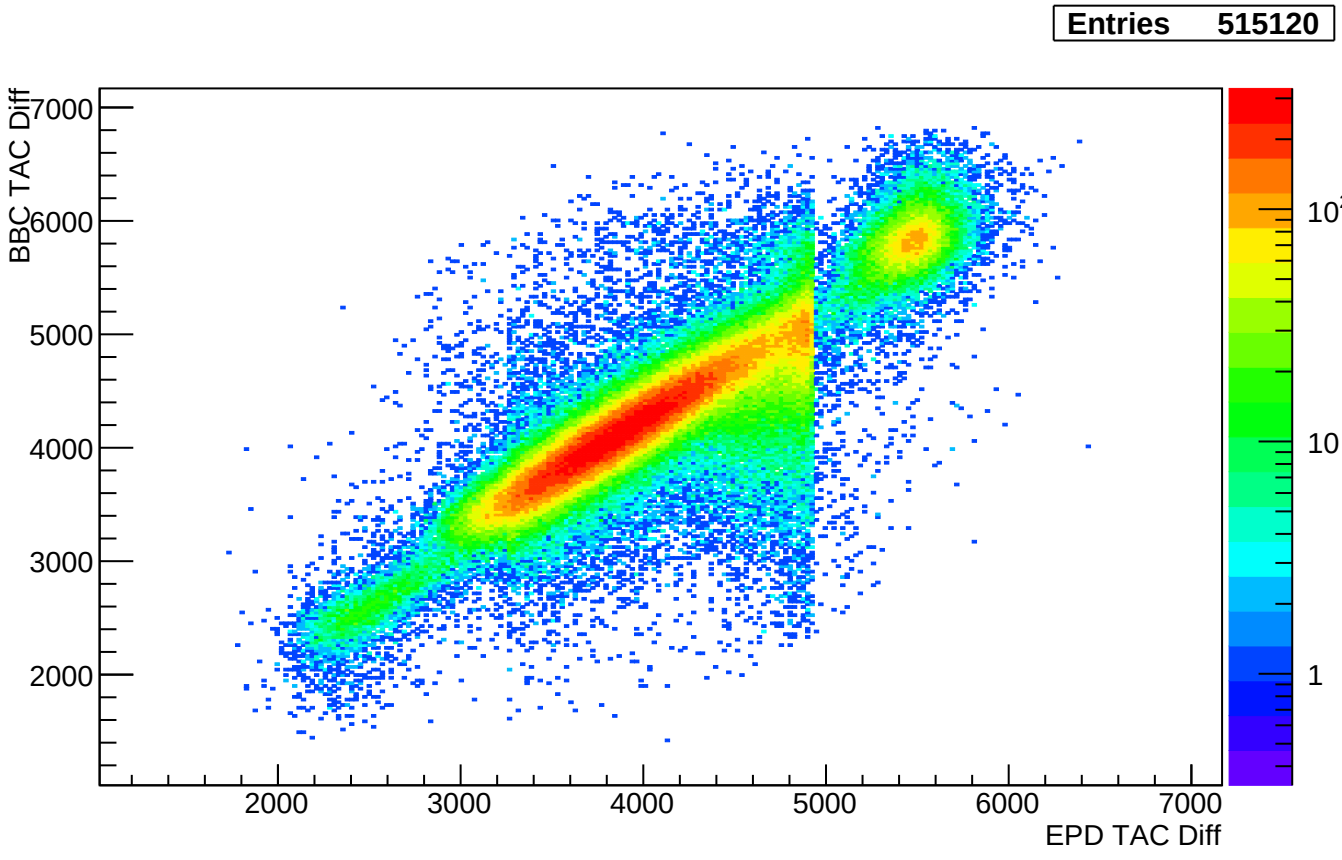

Entries 515120
TOF_Mult
BBC-S-West ADC Sum

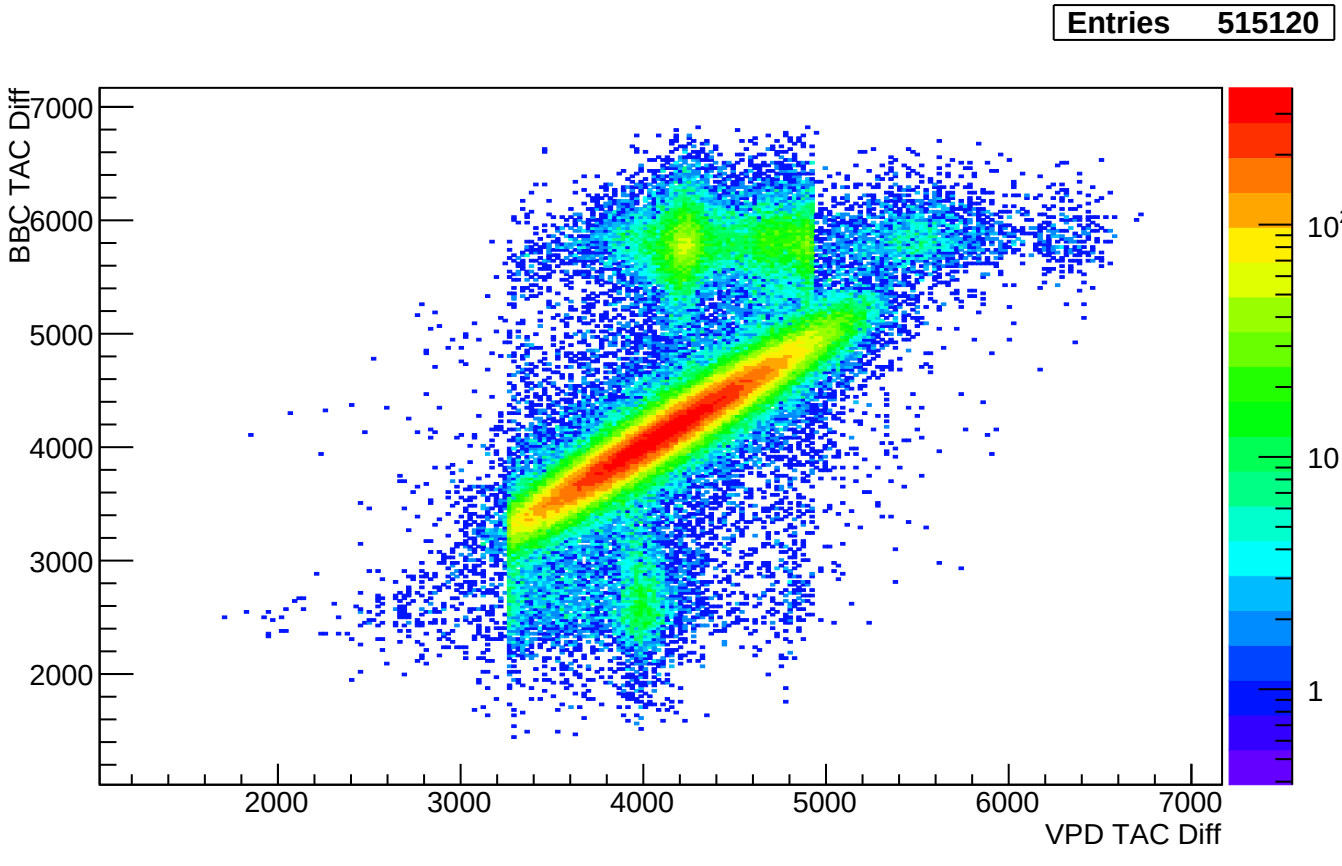

Entries 515120
TOF_Mult
EPD-East Hit Cnt

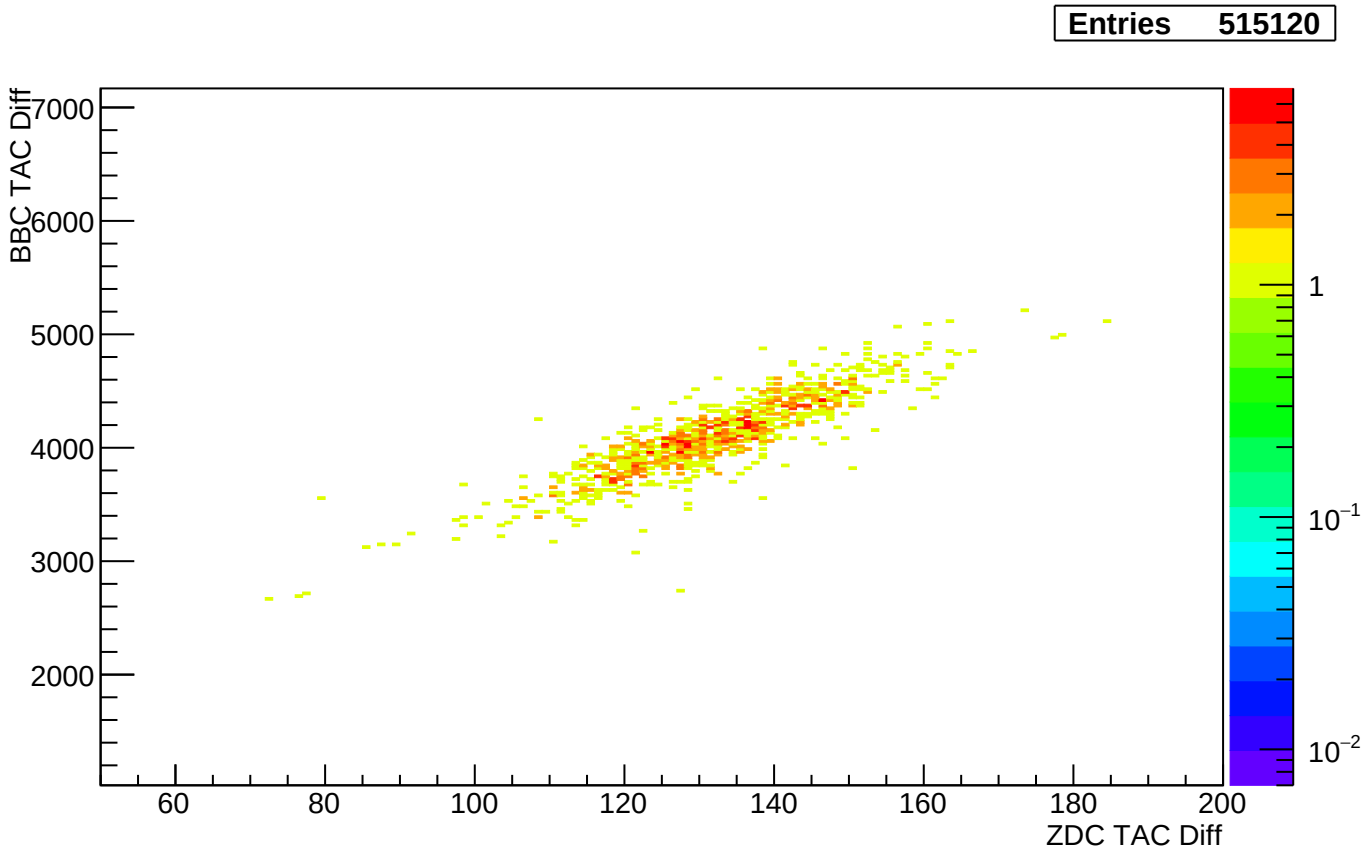

Entries 515120
TOF_Mult
EPD-West Hit Cnt

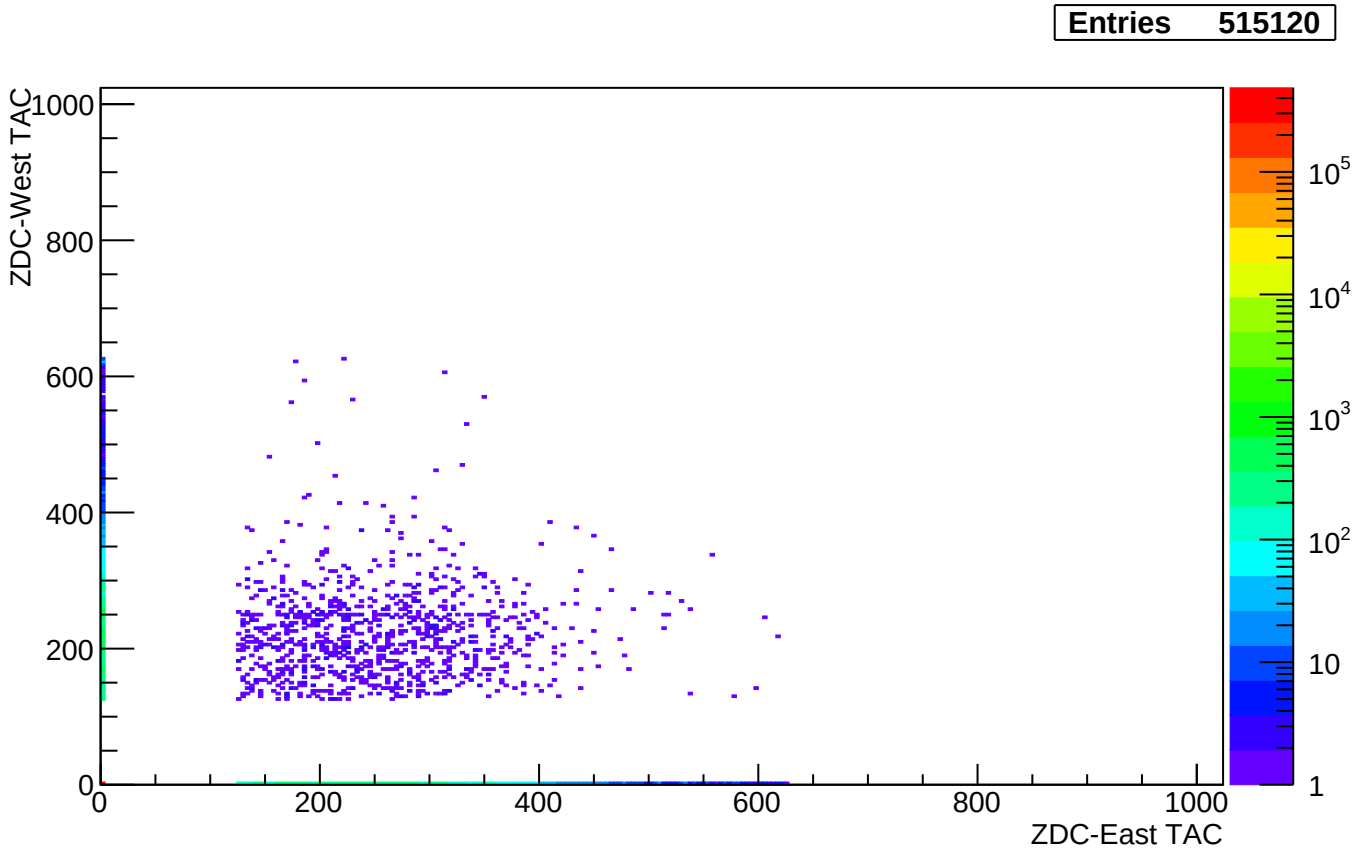

Entries 515120
TOF_Mult
VPD-East ADC Sum

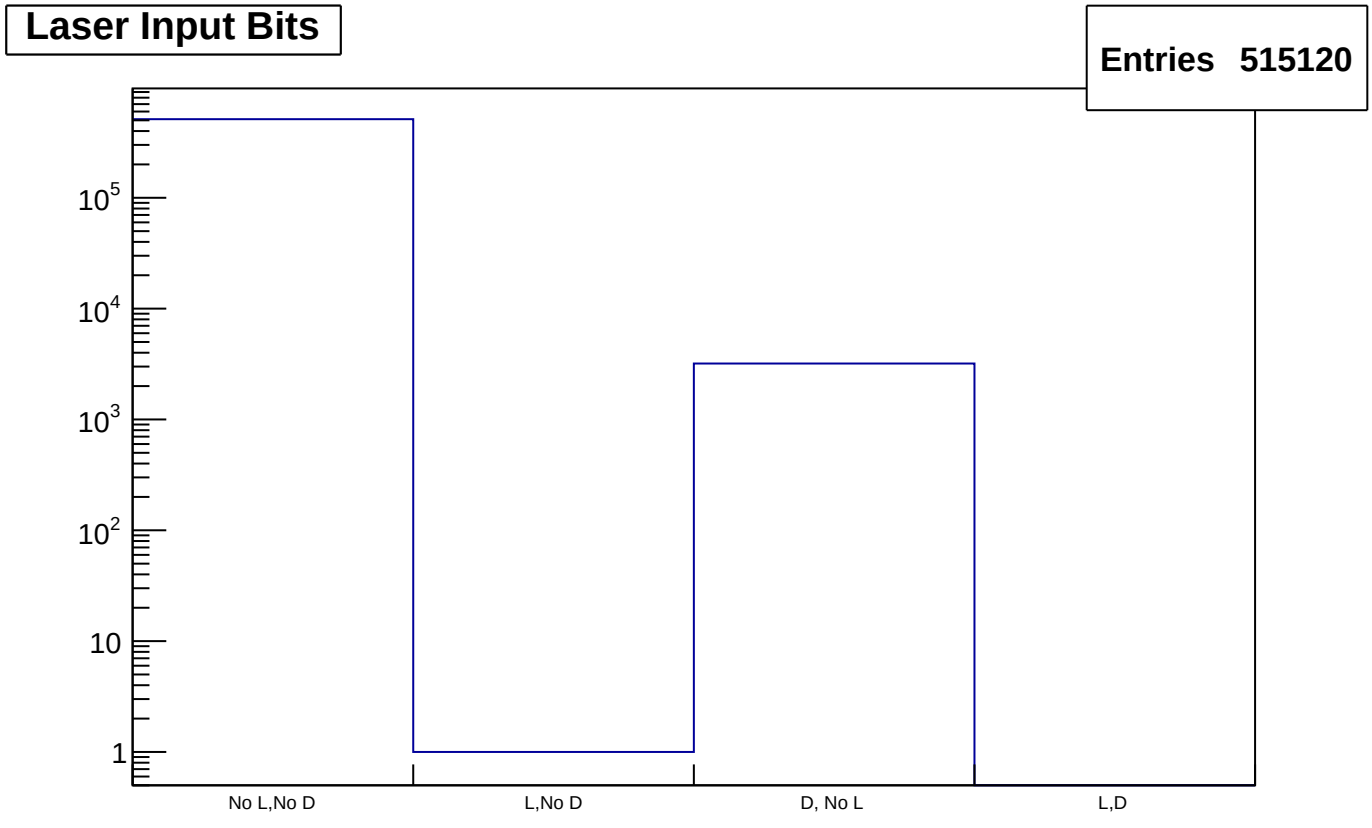

Entries 515120
TOF_Mult
VPD-West ADC Sum

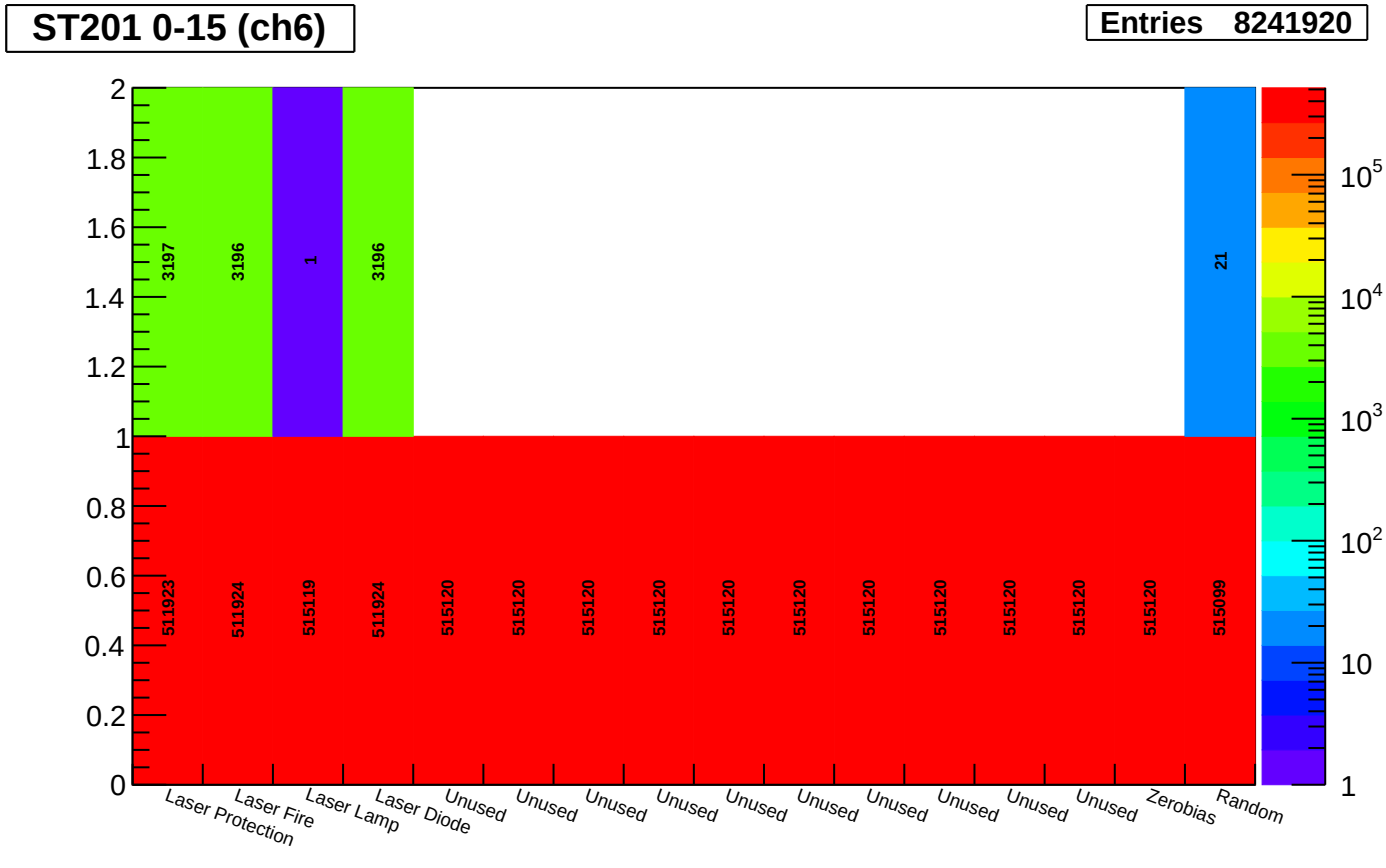

Entries 515120
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

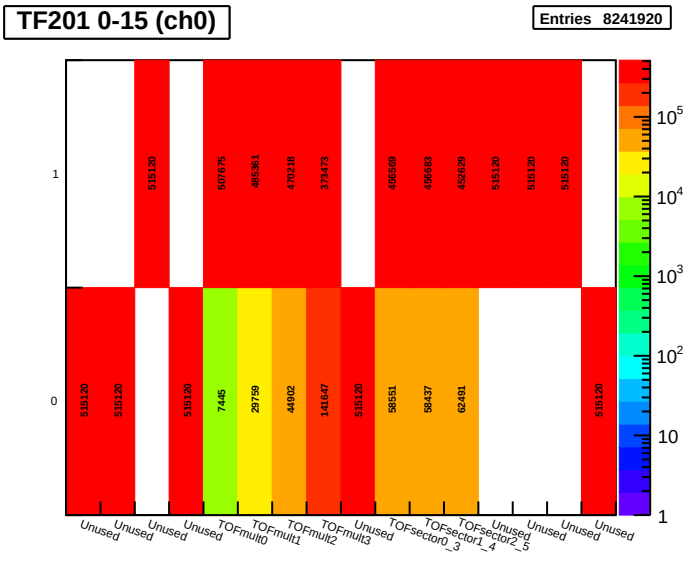

Entries 515120
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

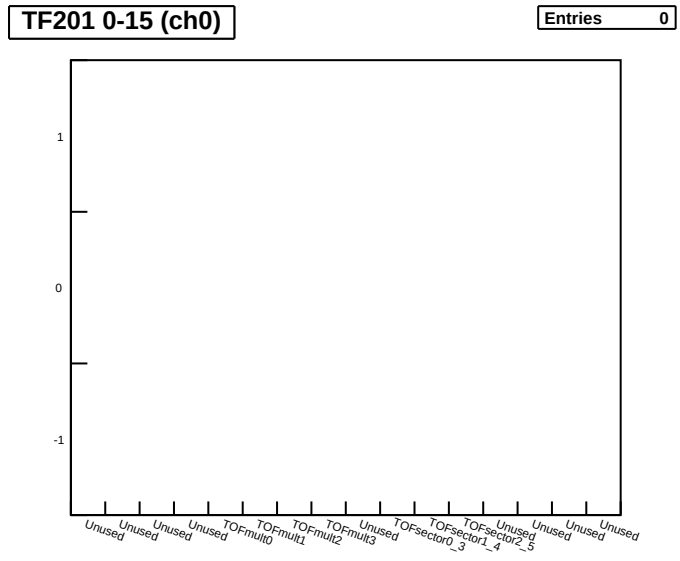

Entries 515120
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

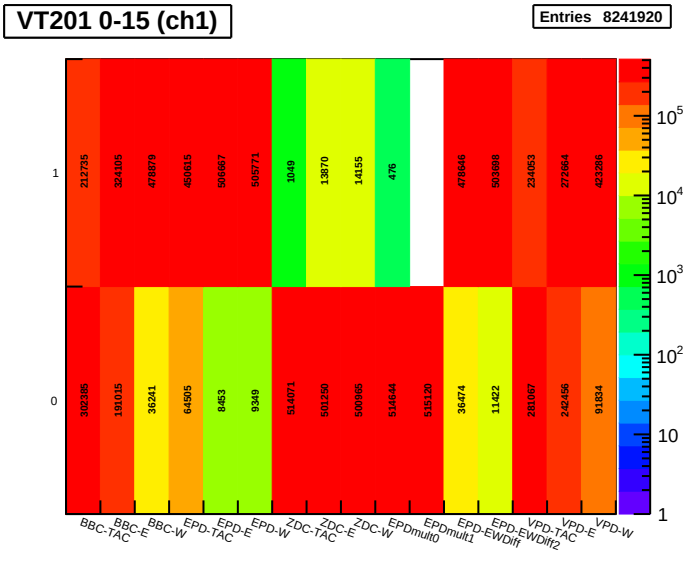

Entries 515120
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

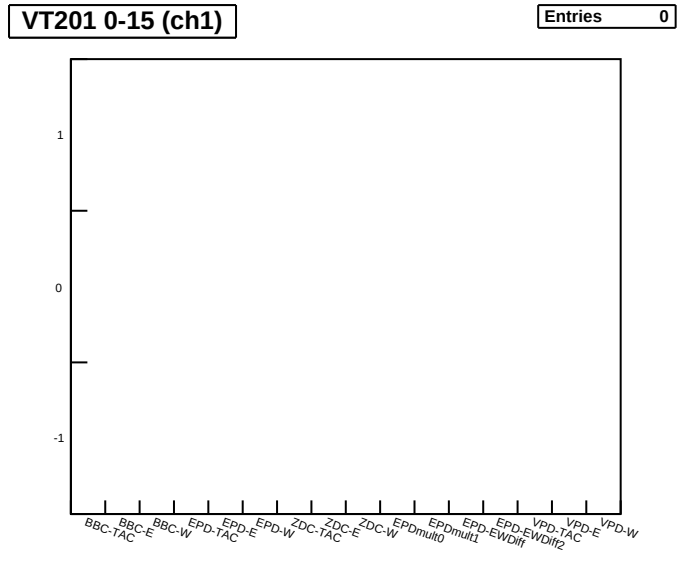

Laser Input Bits
Entries 515120
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

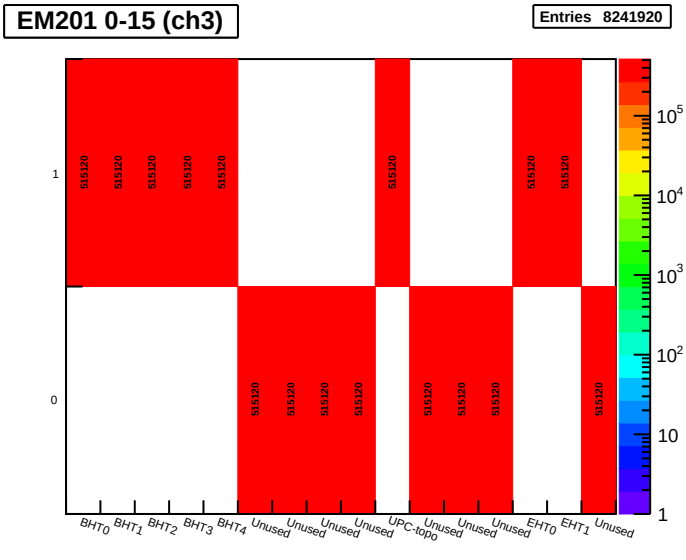

ST201 0-15 (ch6)
Entries 8241920
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3197
3196
1
3196
21
511923
511924
515119
511924
515120
515120
515120
515120
515120
515120
515120
515120
515120
515120
515120
515099
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

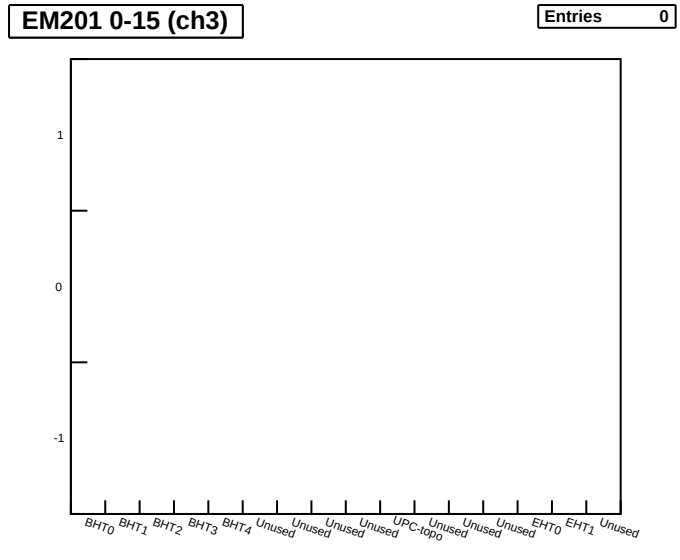

TF201 0-15 (ch0)
Entries 8241920
1
0
515120 507675 495361 470218 373473 456569 456683 452629 515120 515120 515120
515120 515120 515120 7445 29759 44902 141647 515120 58551 58437 62491 515120
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 10^4 10^3 10^2 10 1


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


VT201 0-15 (ch1)
Entries 8241920
1
0
212735 324105 478879 450615 506667 505771 1049 13870 14155 476 478646 503898 234053 272864 423286
302385 191015 36241 64505 8463 9349 514071 501290 500965 514644 515120 36474 11422 281067 242456 91834
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 8241920
1
0
515120 515120 515120 515120 515120 515120 515120 515120
515120 515120 515120 515120 515120 515120 515120 515120
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
10^5 10^4 10^3 10^2 10 1


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