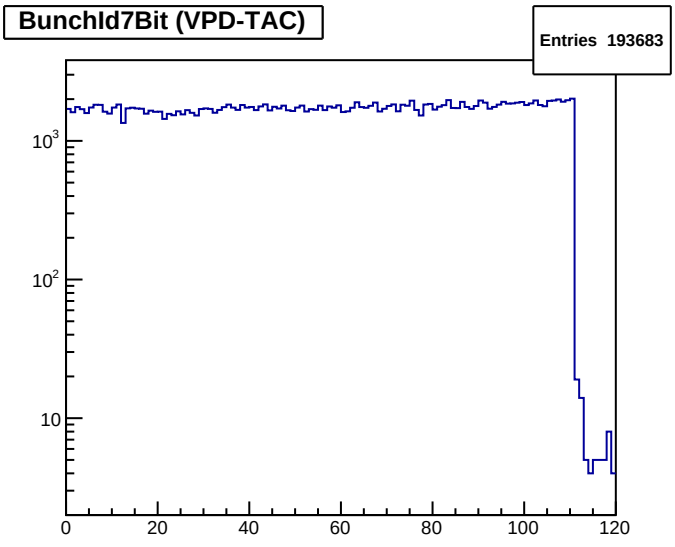
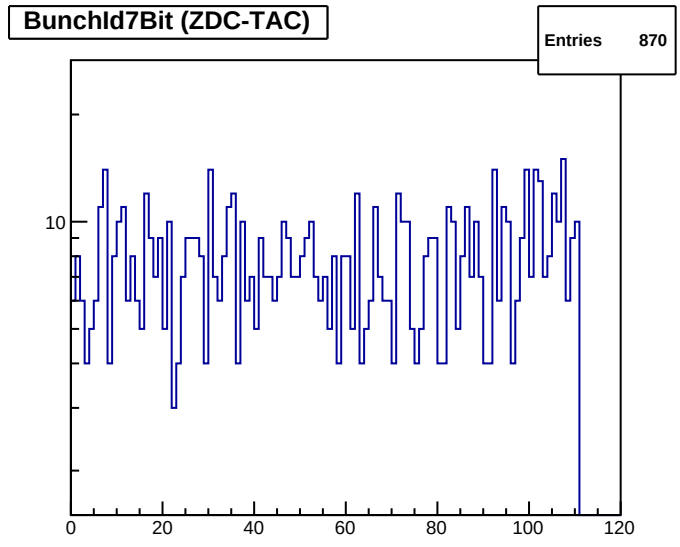
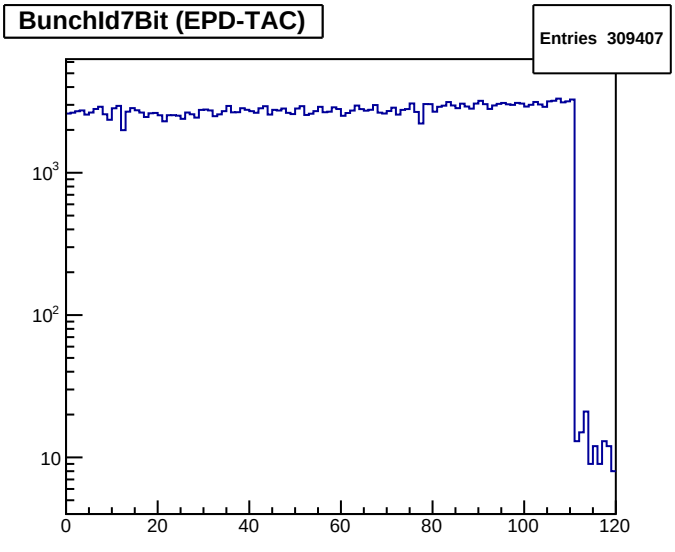
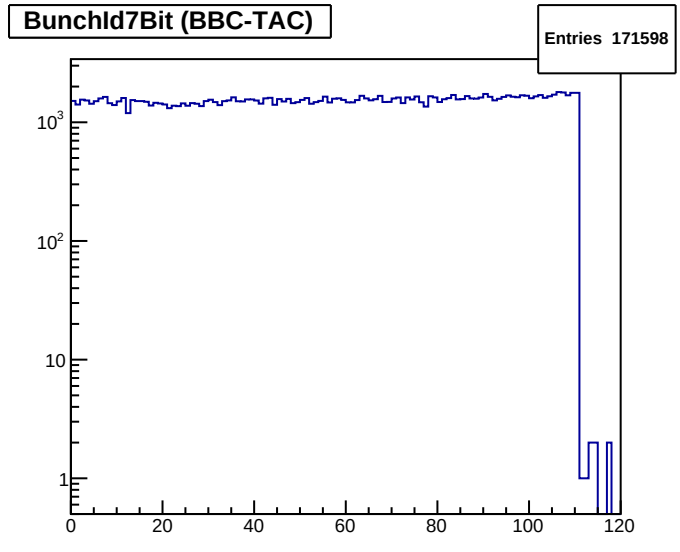
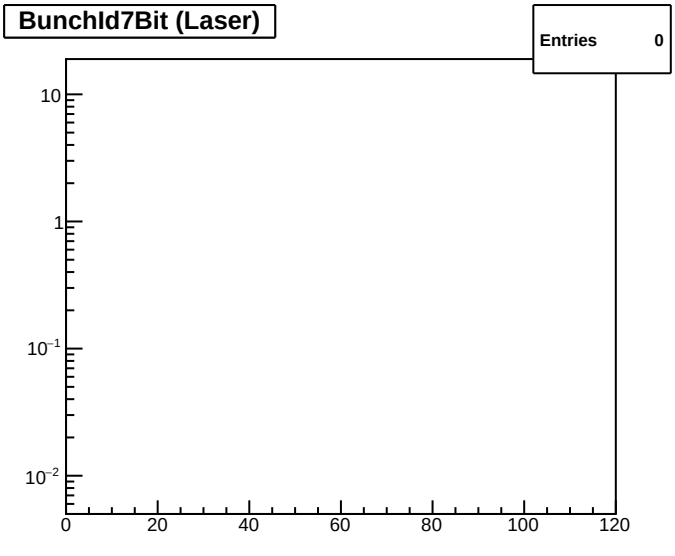
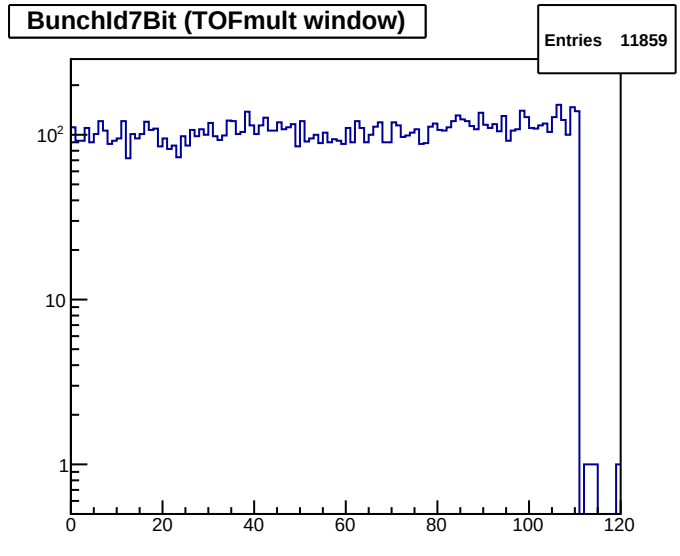

BunchId7Bit (VPD-TAC)
Entries 193683
$10^3$
$10^2$
10
0 20 40 60 80 100 120

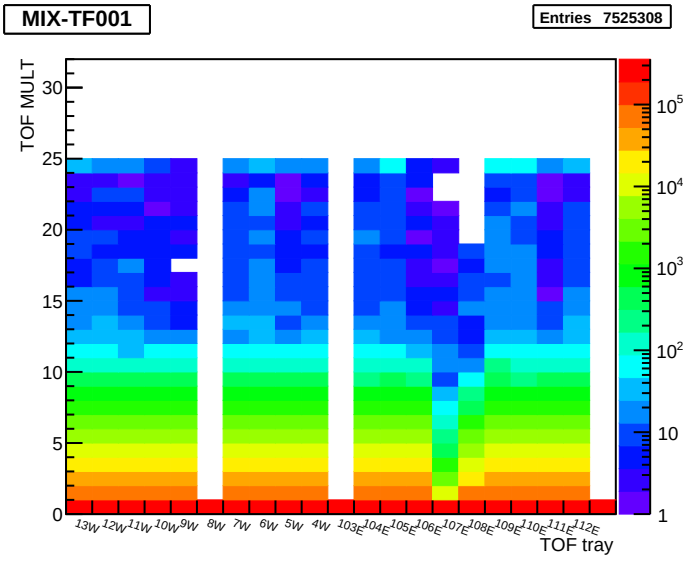

BunchId7Bit (ZDC-TAC)
Entries 870
10
0 20 40 60 80 100 120

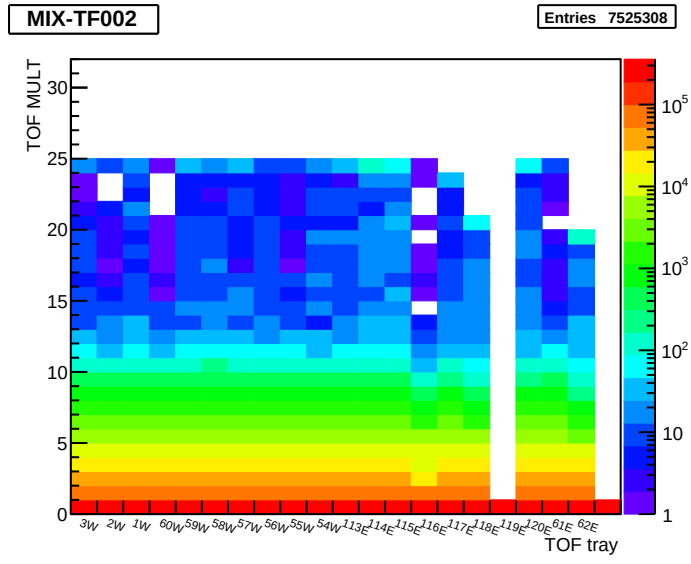

BunchId7Bit (EPD-TAC)
Entries 309407
$10^3$
$10^2$
10
0 20 40 60 80 100 120

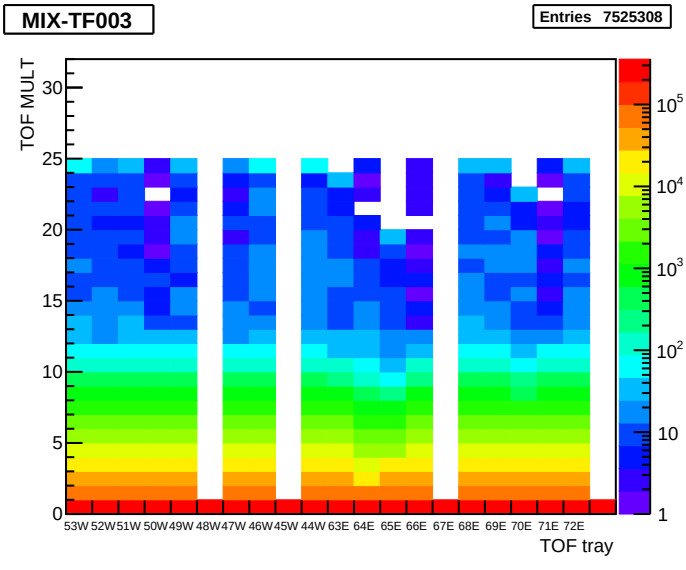

BunchId7Bit (BBC-TAC)
Entries 171598
$10^3$
$10^2$
10
1
0 20 40 60 80 100 120

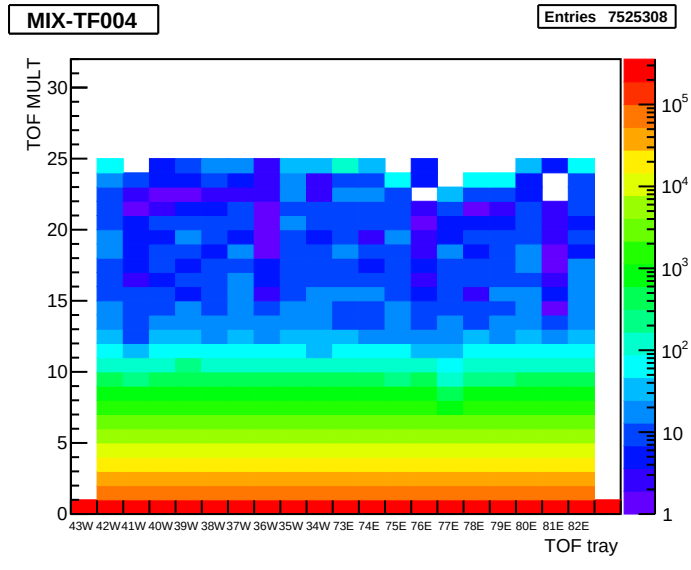

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0 20 40 60 80 100 120

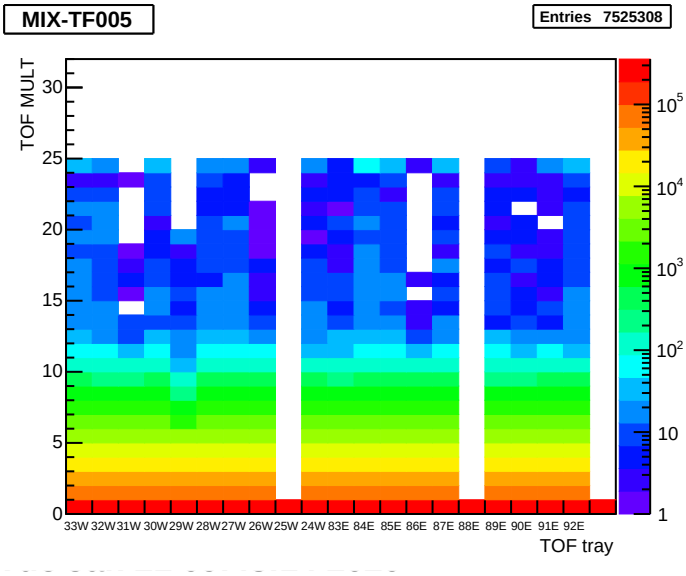

BunchId7Bit (TOFmult window)
Entries 11859
$10^2$
10
1
0 20 40 60 80 100 120

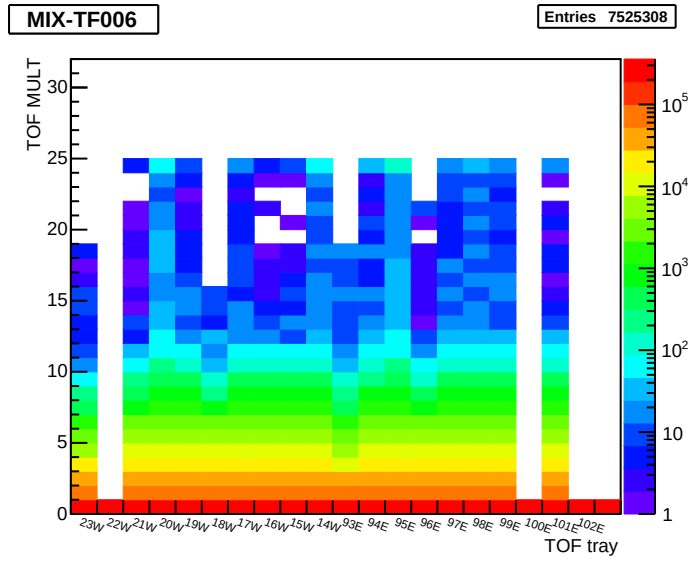

MIX-TF001
Entries 7525308
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

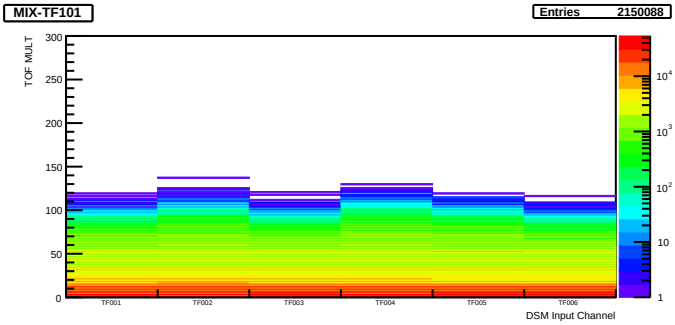

MIX-TF002
Entries 7525308
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

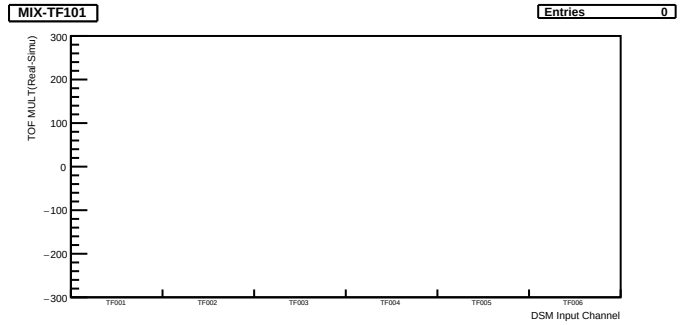

MIX-TF003
Entries 7525308
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

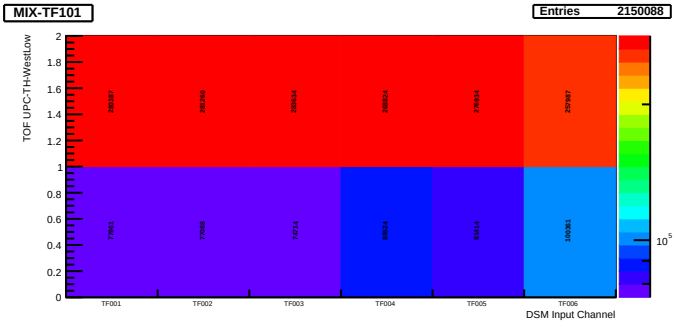

MIX-TF004
Entries 7525308
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

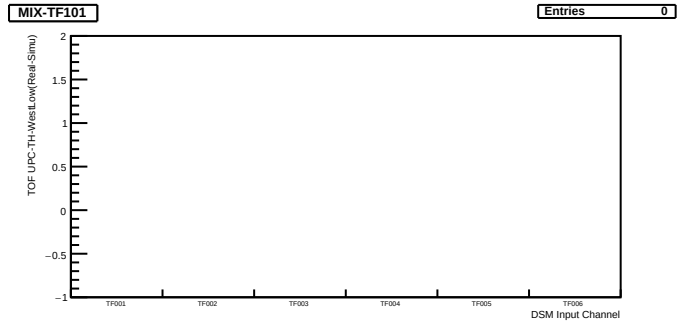

MIX-TF005
Entries 7525308
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

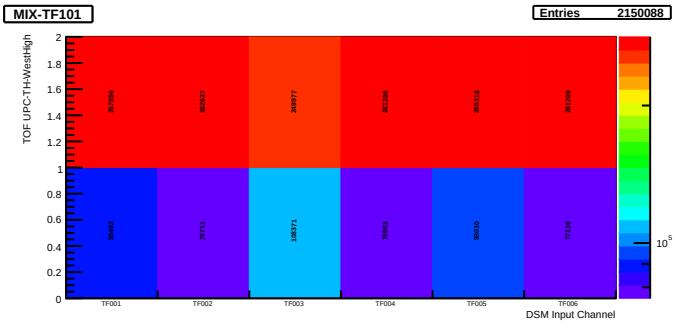

MIX-TF006
Entries 7525308
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

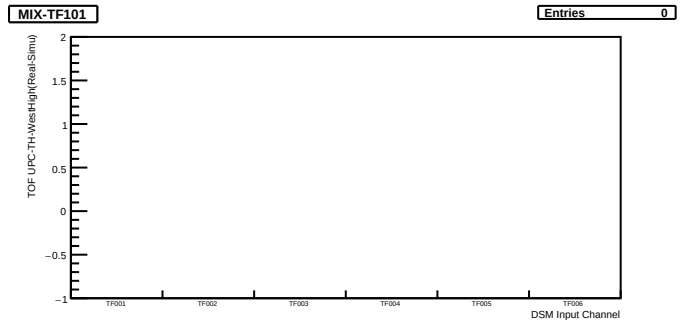

MIX-TF101
Entries 2150088
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

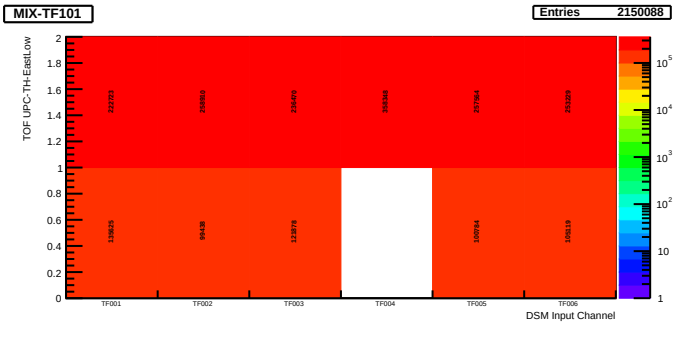

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

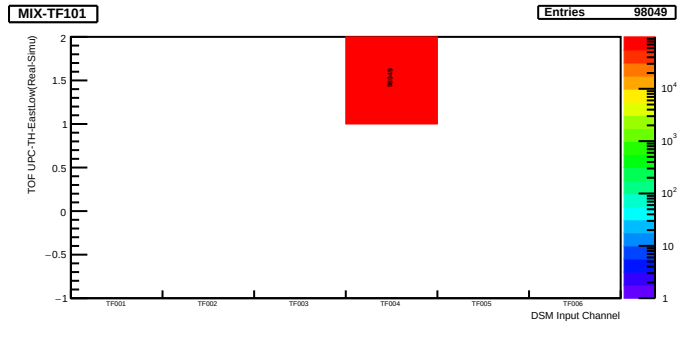

MIX-TF101
Entries 2150088
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

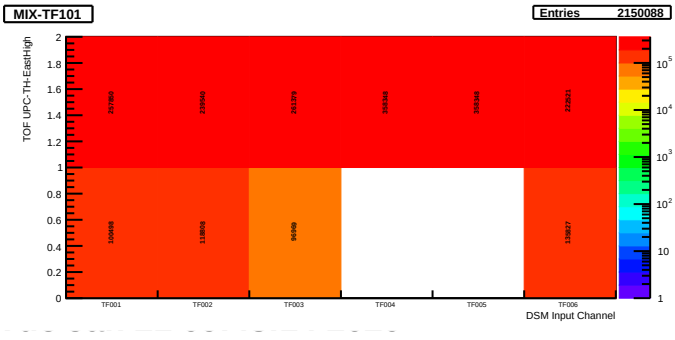

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

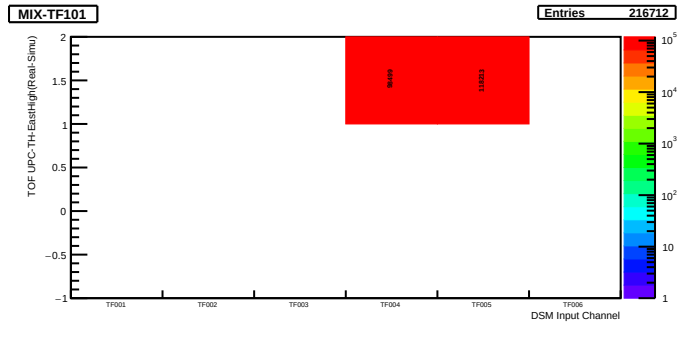

MIX-TF101
Entries 2150088
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

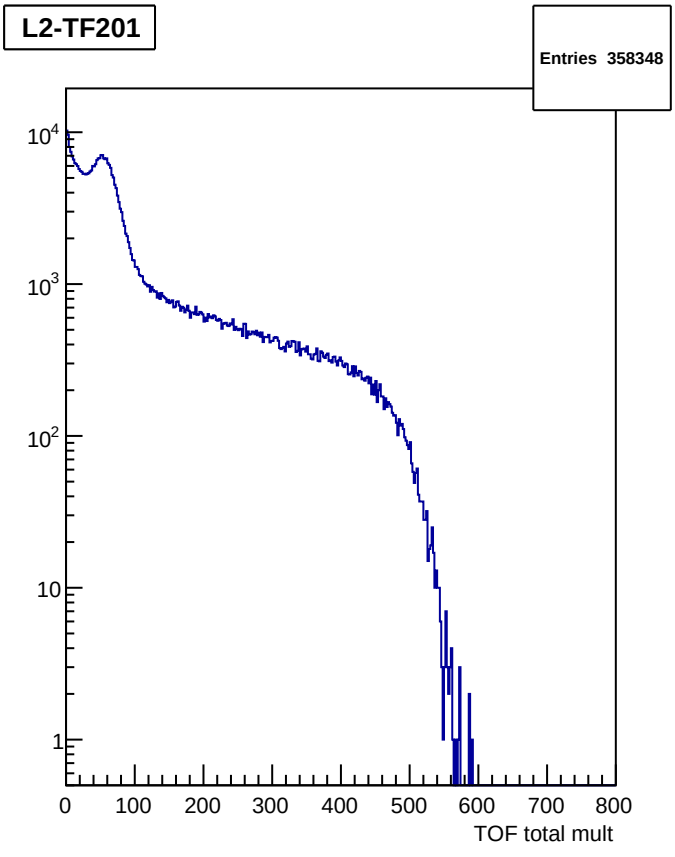

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

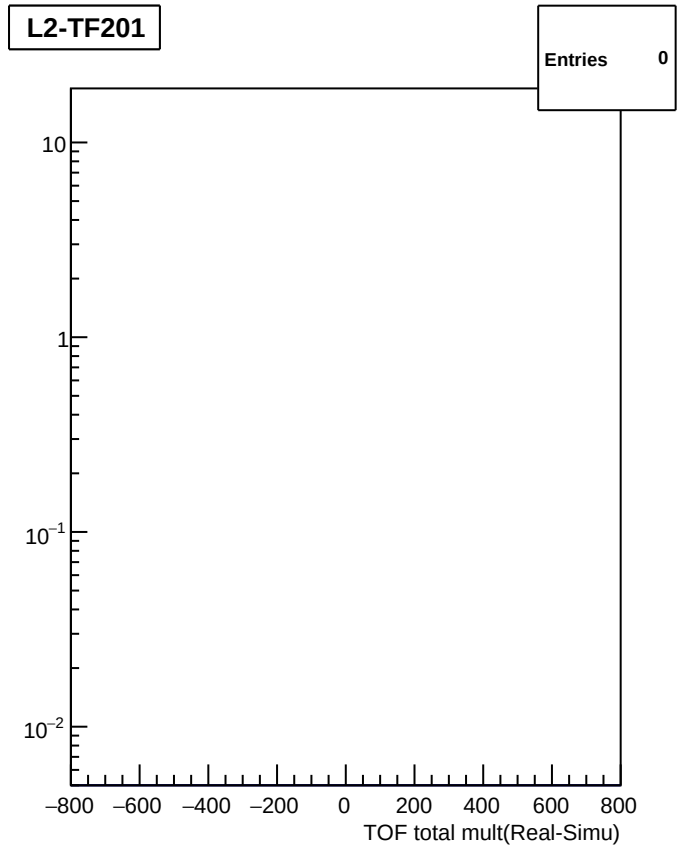

MIX-TF101
Entries 2150088
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

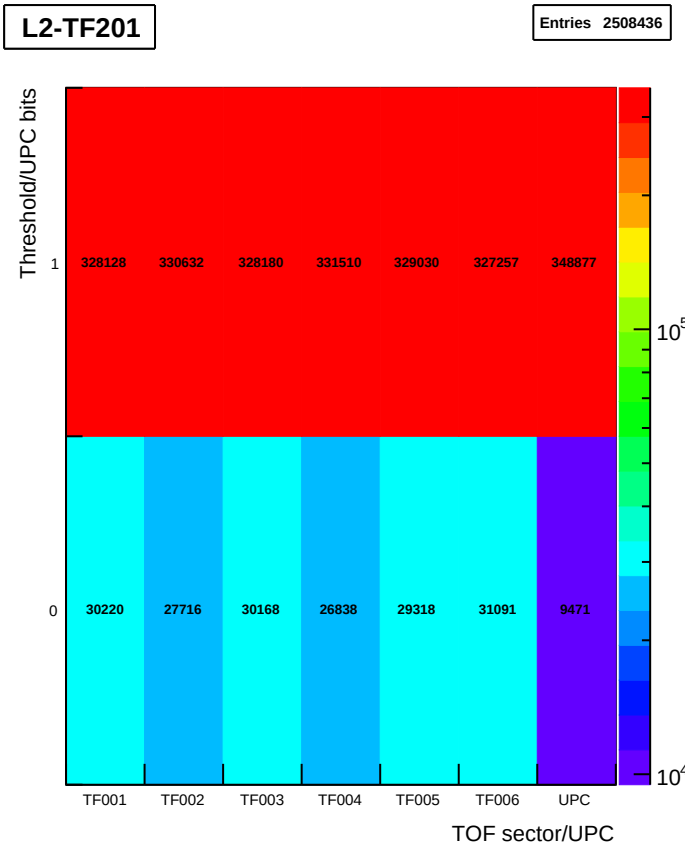

MIX-TF101
Entries 98049
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

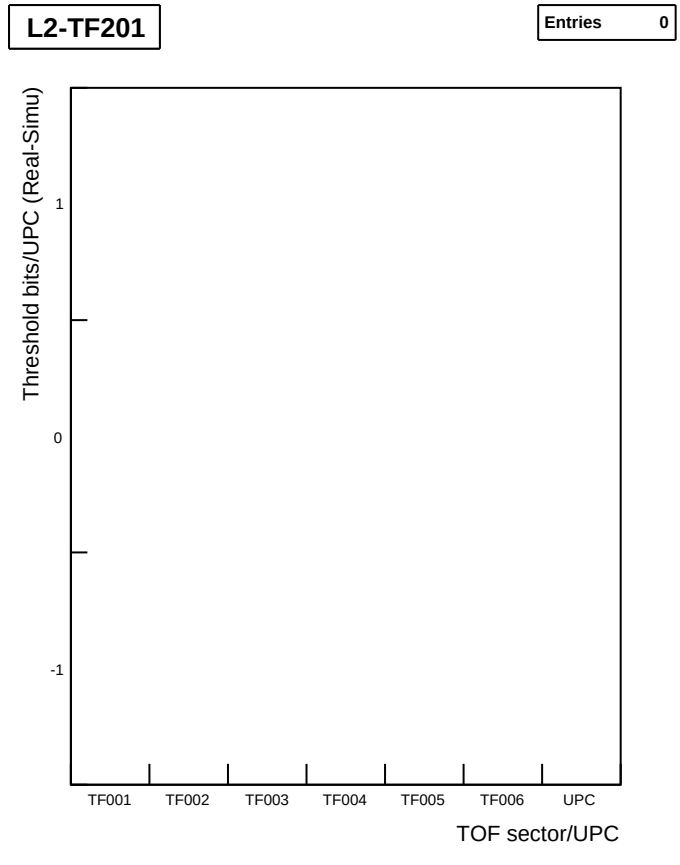

MIX-TF101
Entries 2150088
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

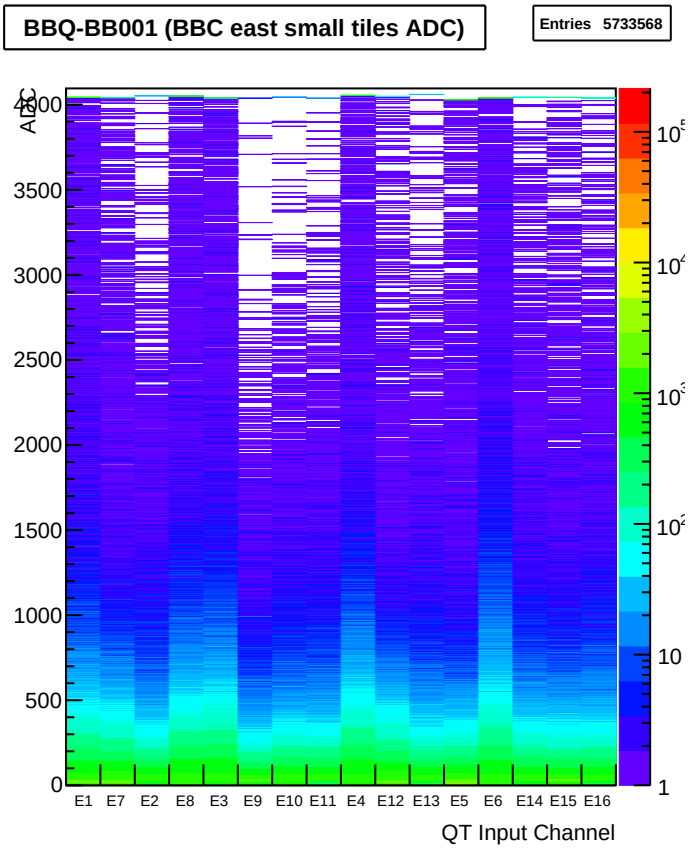

MIX-TF101
Entries 216712
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

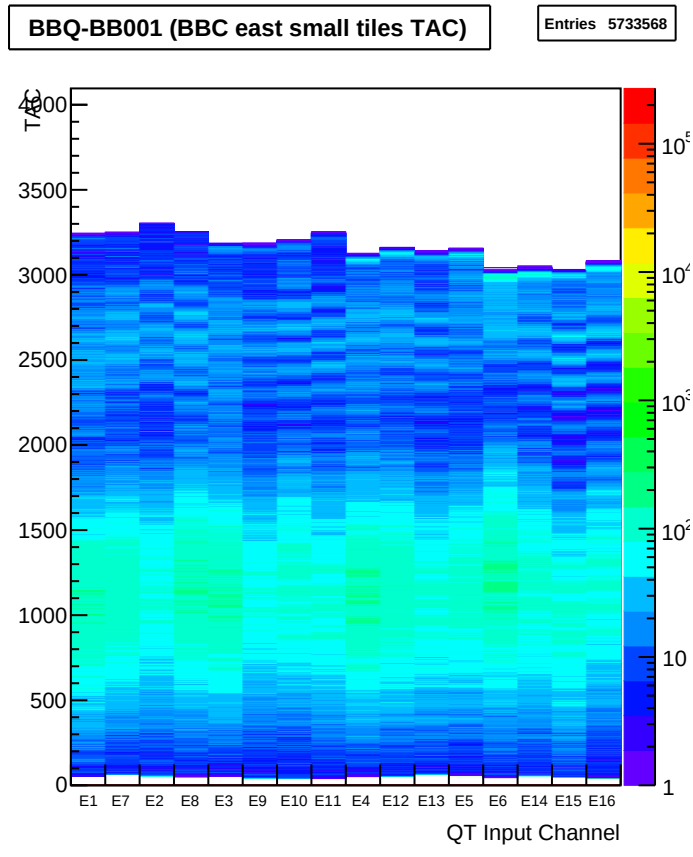

L2-TF201
Entries 358348
TOF total mult

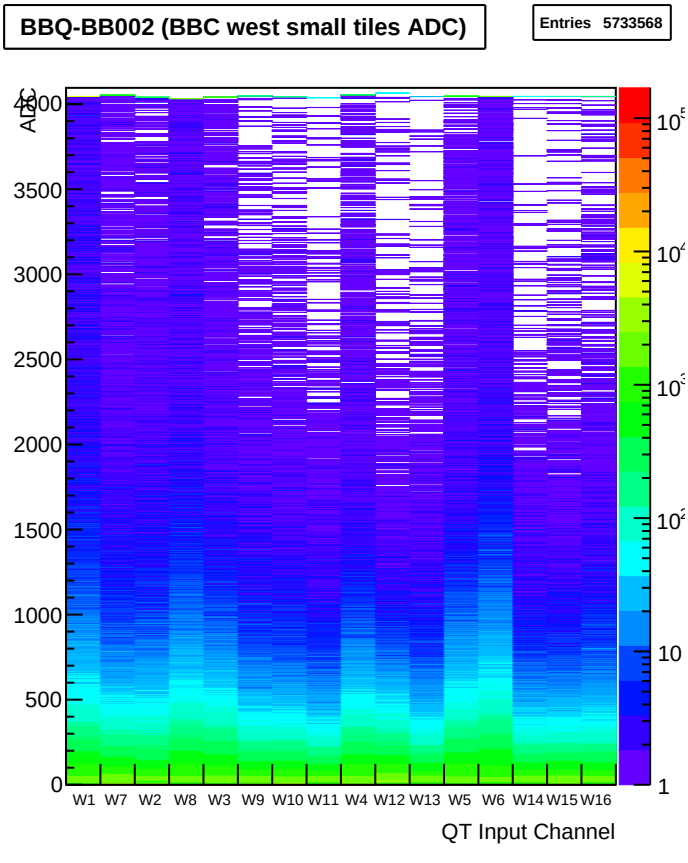

L2-TF201
Entries 0
TOF total mult(Real-Simu)

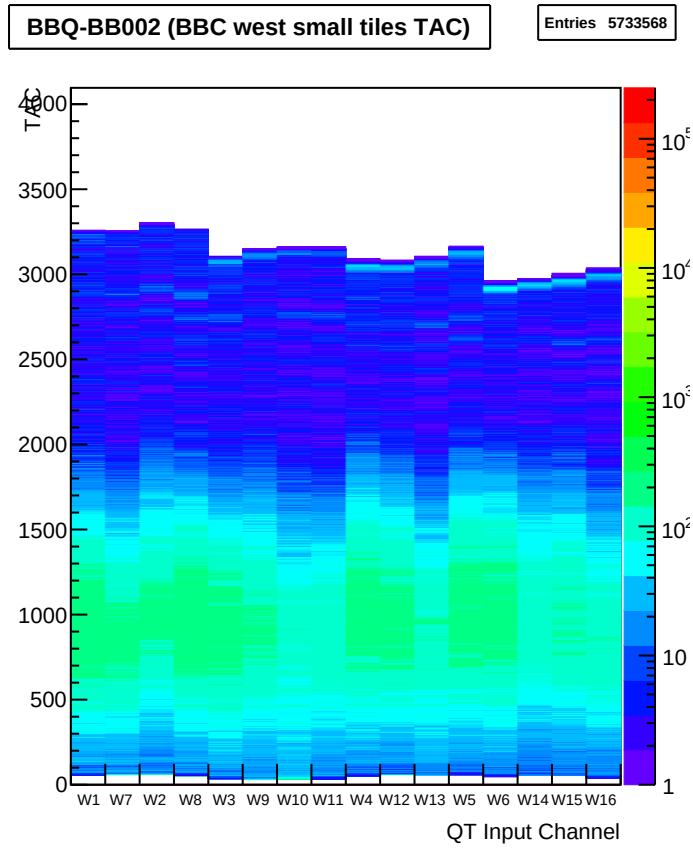

L2-TF201
Entries 2508436
Threshold/UPC bits
328128
330632
328180
331510
329030
327257
348877
30220
27716
30168
26838
29318
31091
9471
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

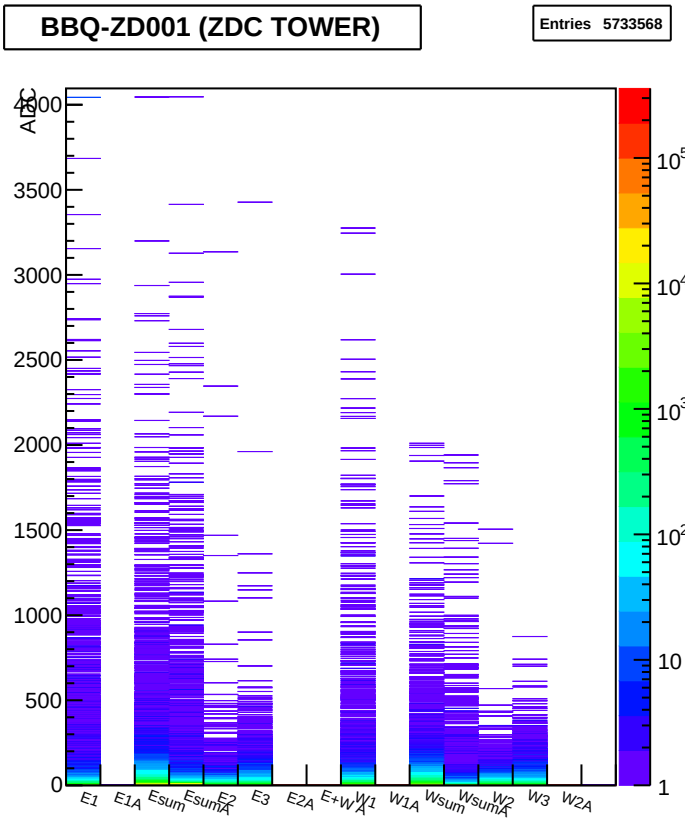

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

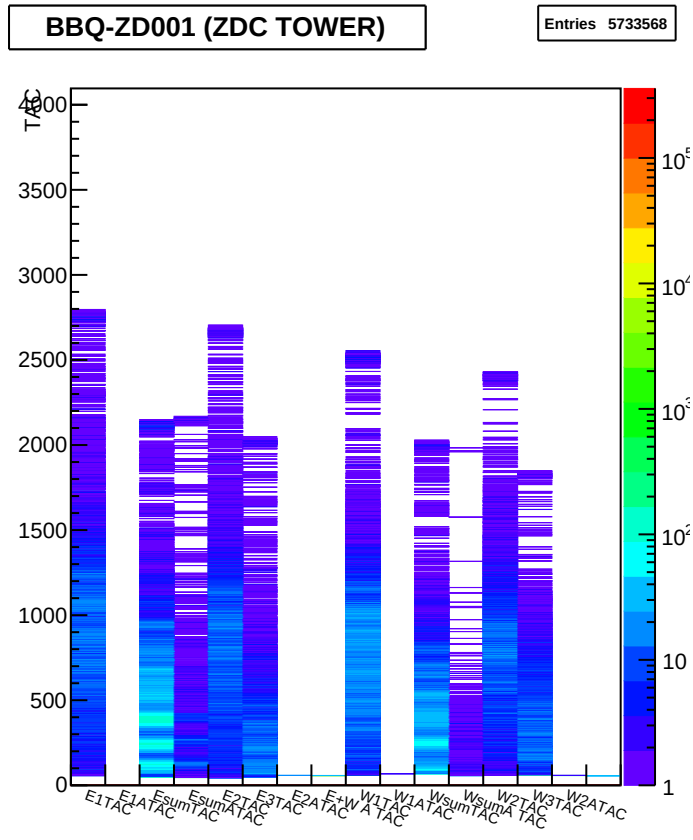

BBQ-BB001 (BBC east small tiles ADC)
Entries 5733568
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

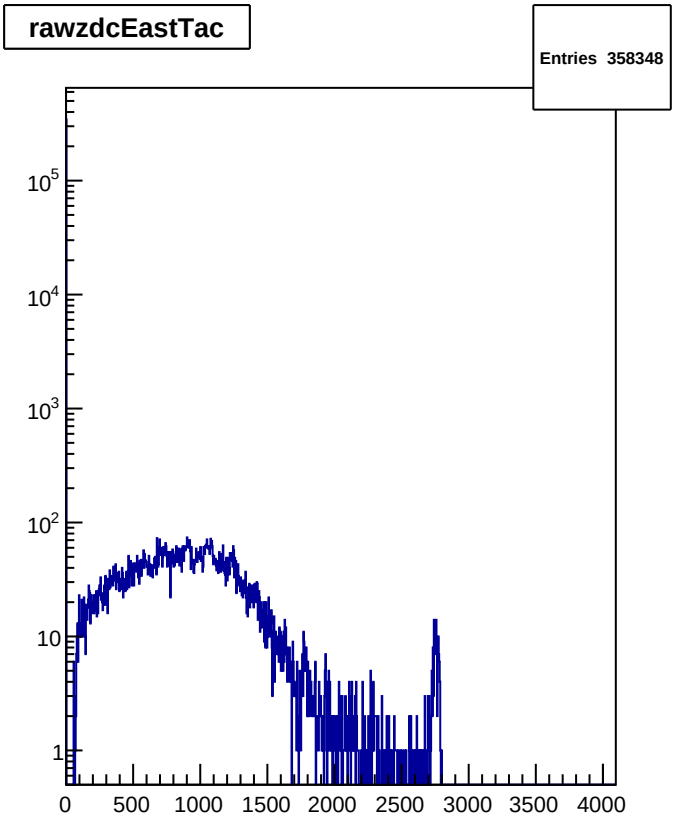

BBQ-BB001 (BBC east small tiles TAC)
Entries 5733568
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

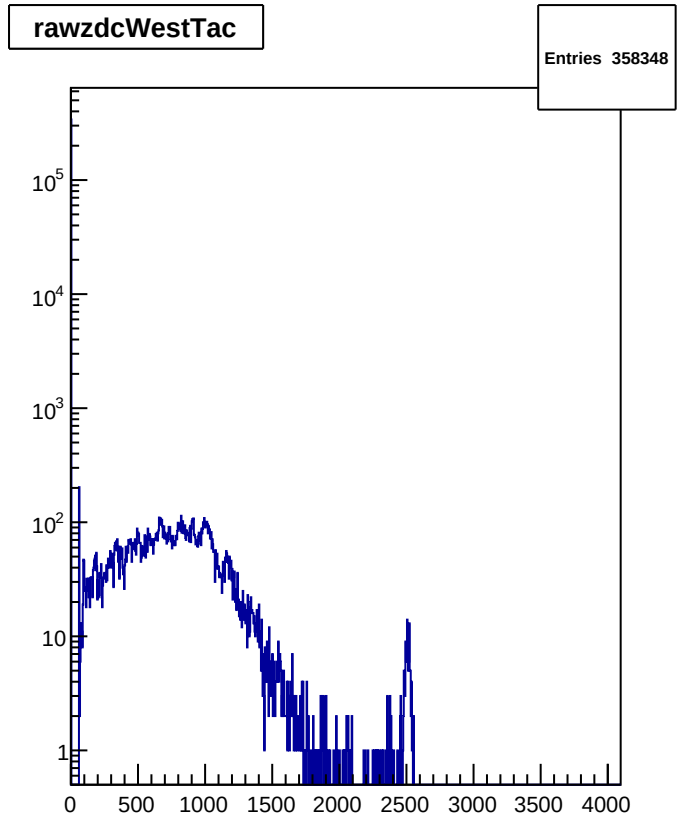

BBQ-BB002 (BBC west small tiles ADC)
Entries 5733568
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

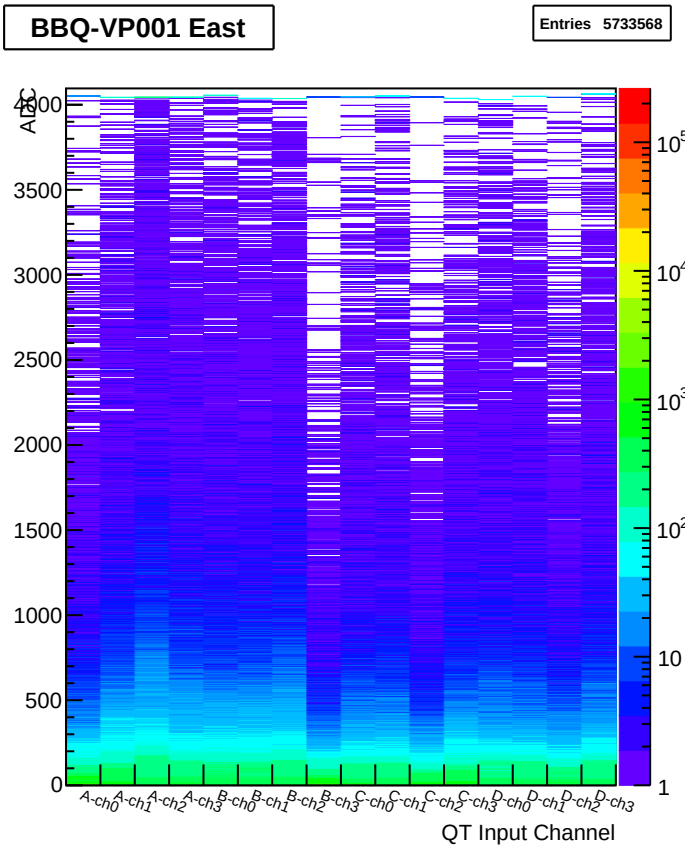

BBQ-BB002 (BBC west small tiles TAC)
Entries 5733568
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

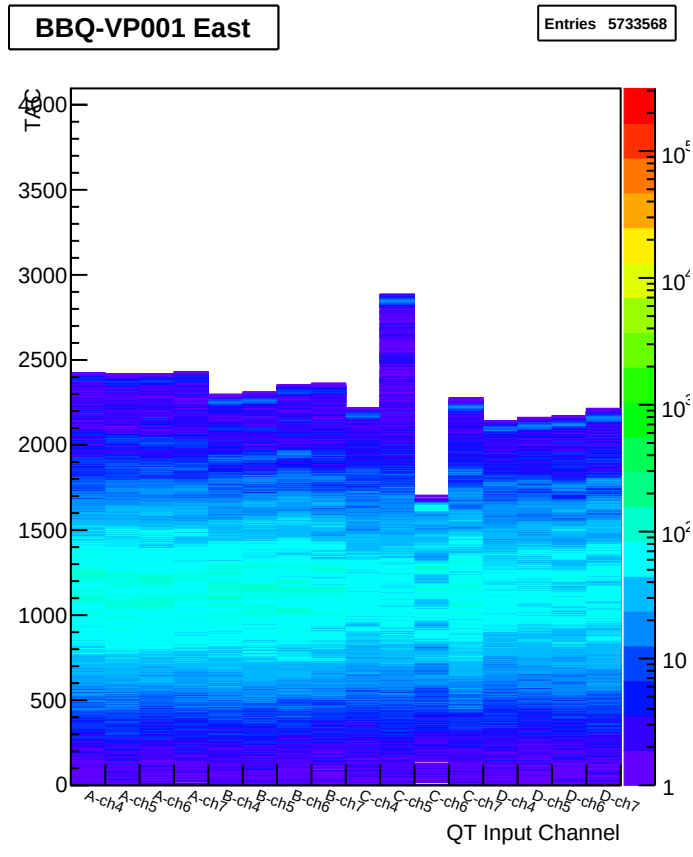

BBQ-ZD001 (ZDC TOWER)
Entries 5733568
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

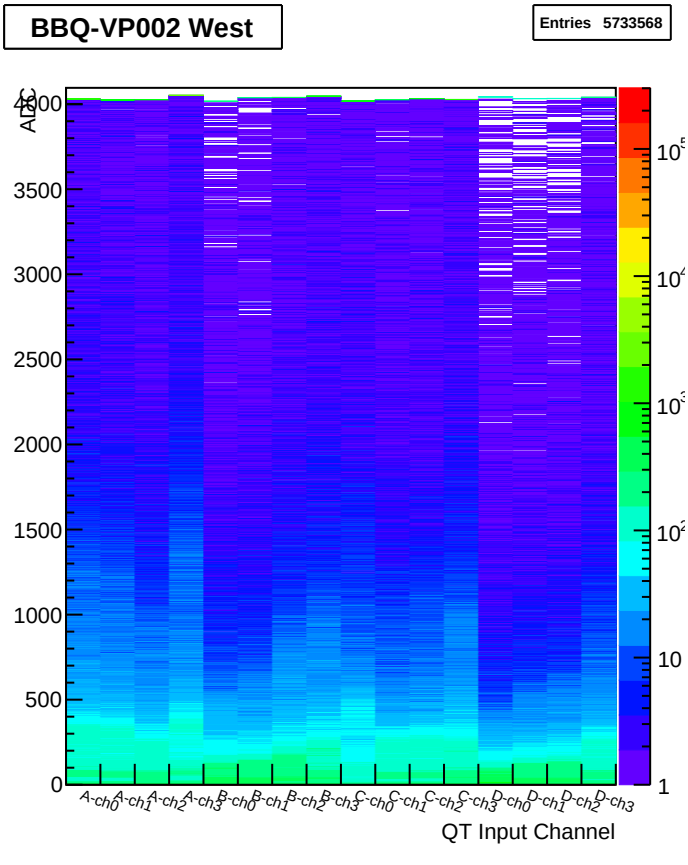

BBQ-ZD001 (ZDC TOWER)
Entries 5733568
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

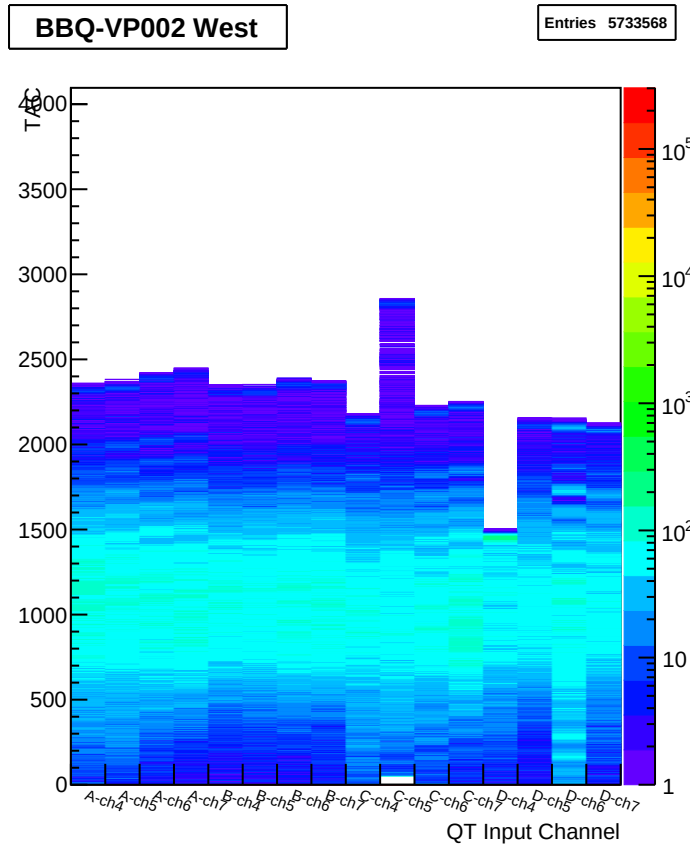

rawzdcEastTac
Entries 358348

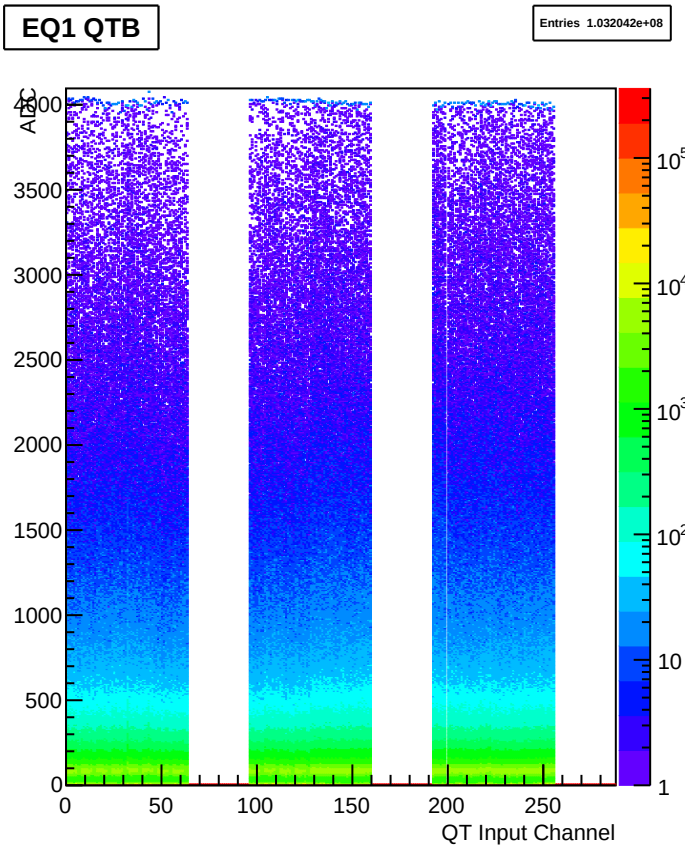

rawzdcWestTac
Entries 358348

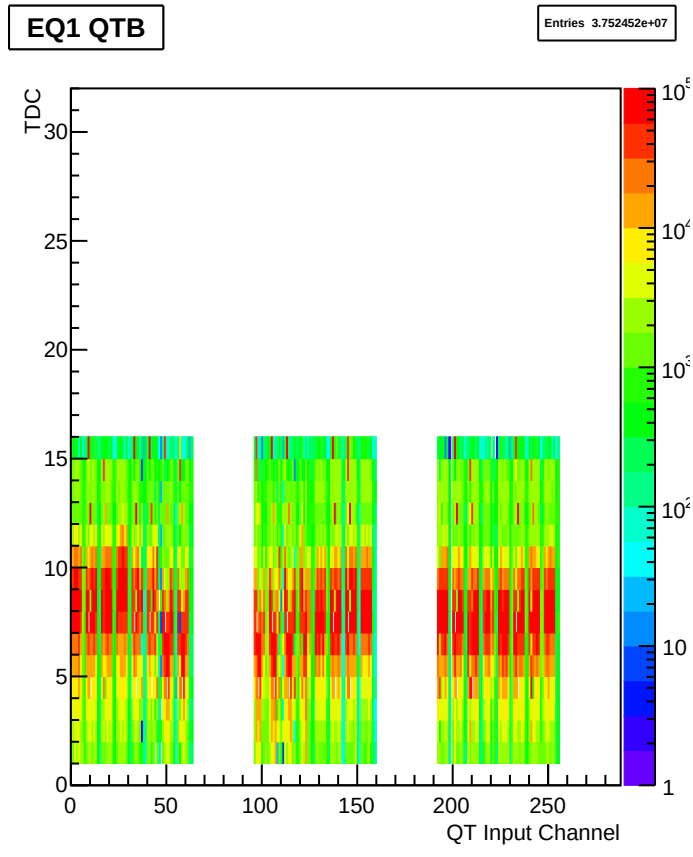

BBQ-VP001 East
Entries 5733568
ADC
QT Input Channel

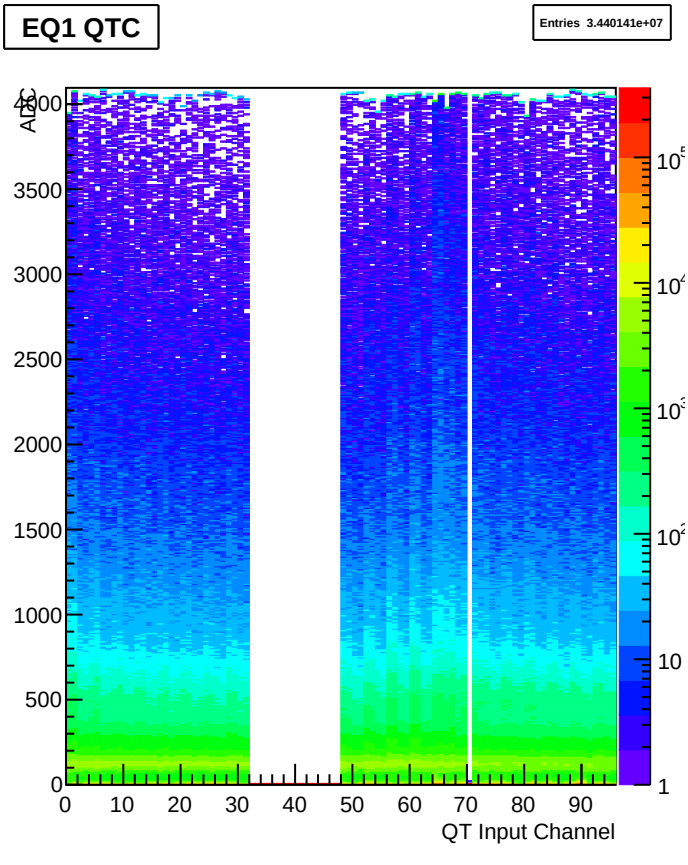

BBQ-VP001 East
Entries 5733568
TADC
QT Input Channel

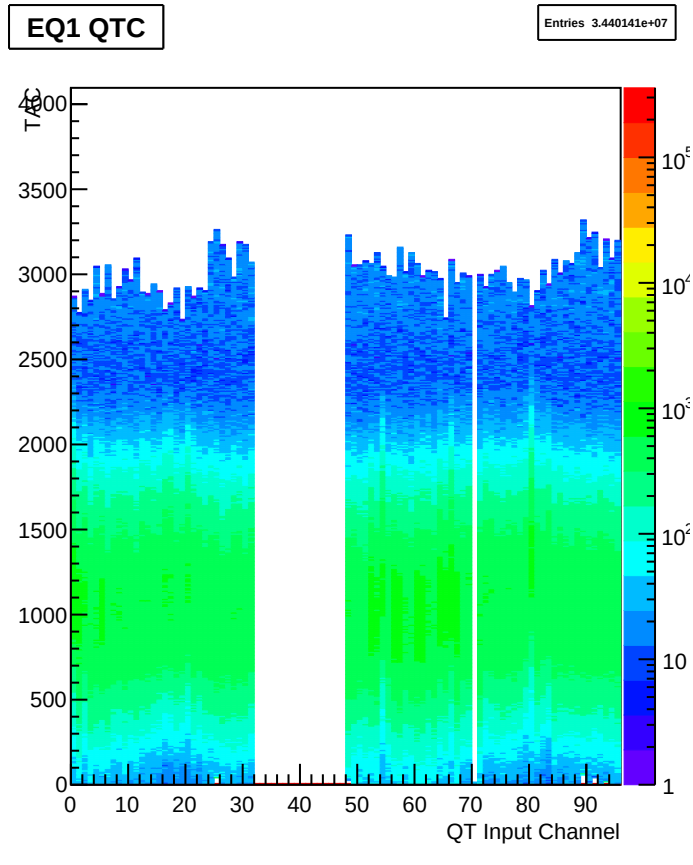

BBQ-VP002 West
Entries 5733568
ADC
QT Input Channel

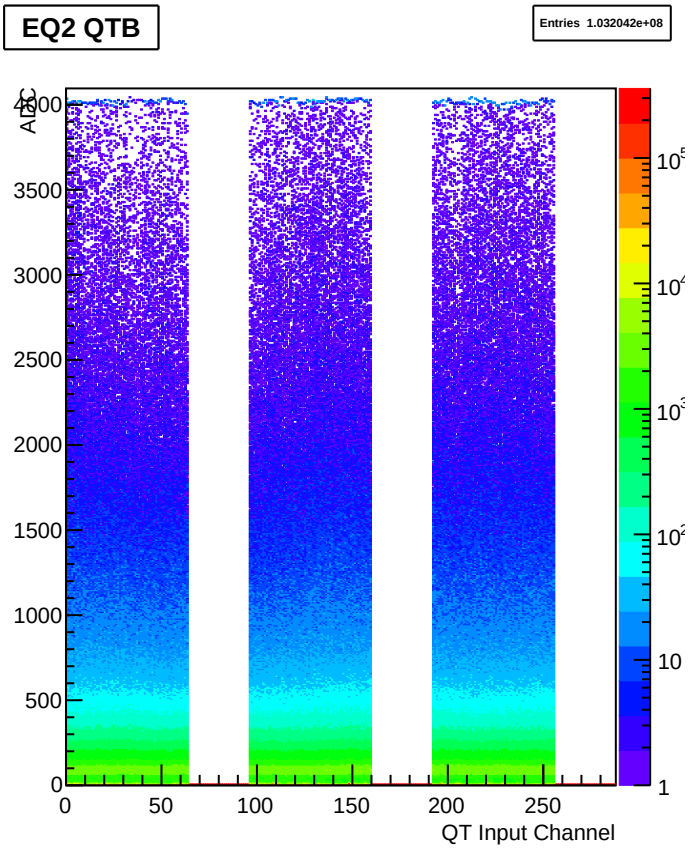

BBQ-VP002 West
Entries 5733568
TADC
QT Input Channel

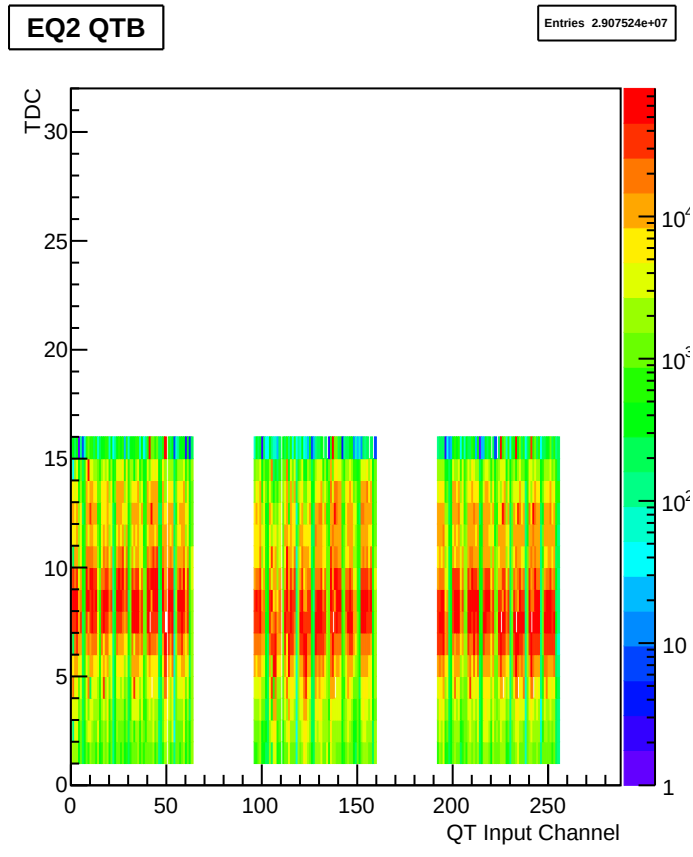

EQ1 QTB
Entries 1.032042e+08
ADC
QT Input Channel

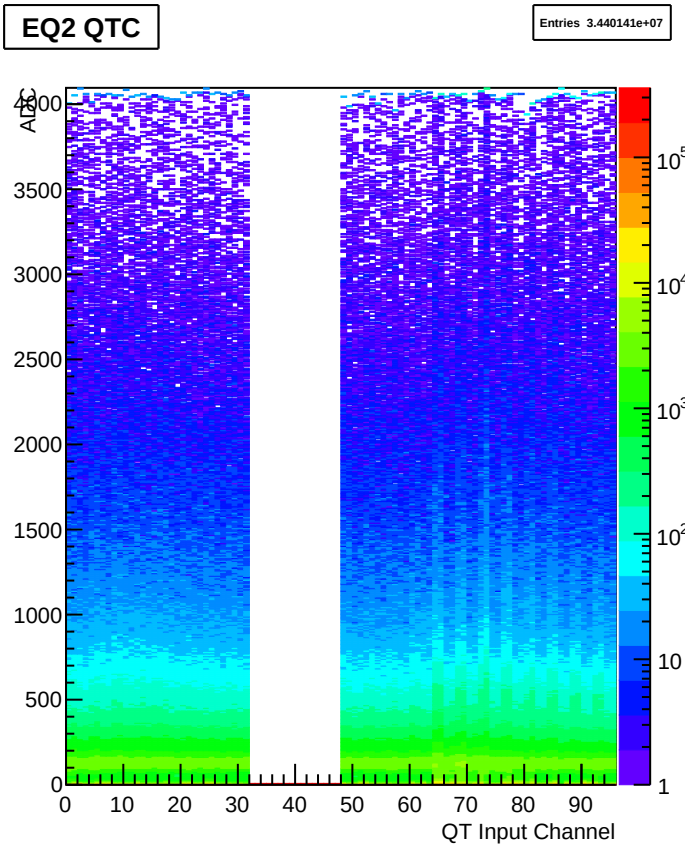

EQ1 QTB
Entries 3.752452e+07
TDC
QT Input Channel

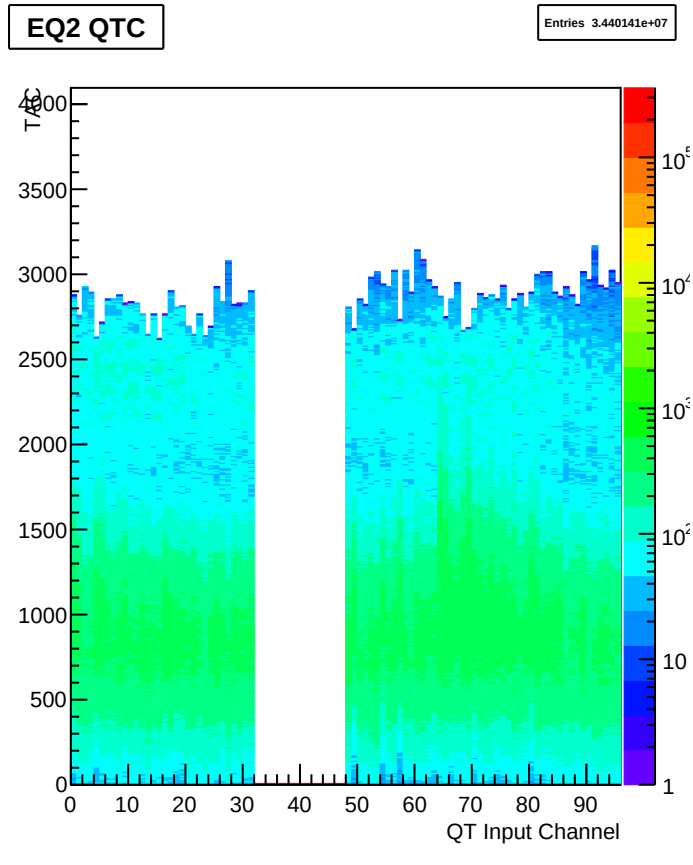

EQ1 QTC
Entries 3.440141e+07
ADC
QT Input Channel

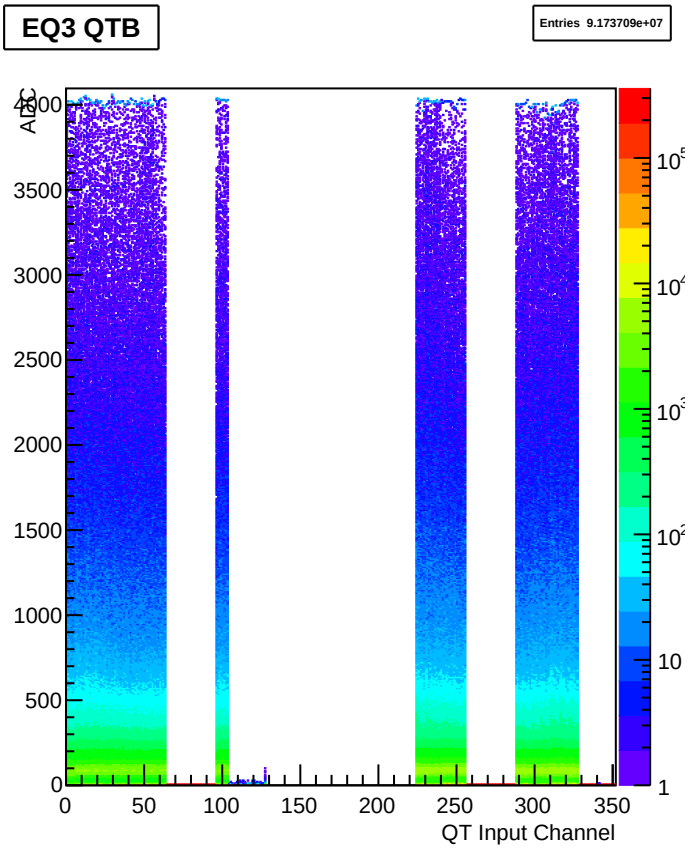

EQ1 QTC
Entries 3.440141e+07
TADC
QT Input Channel

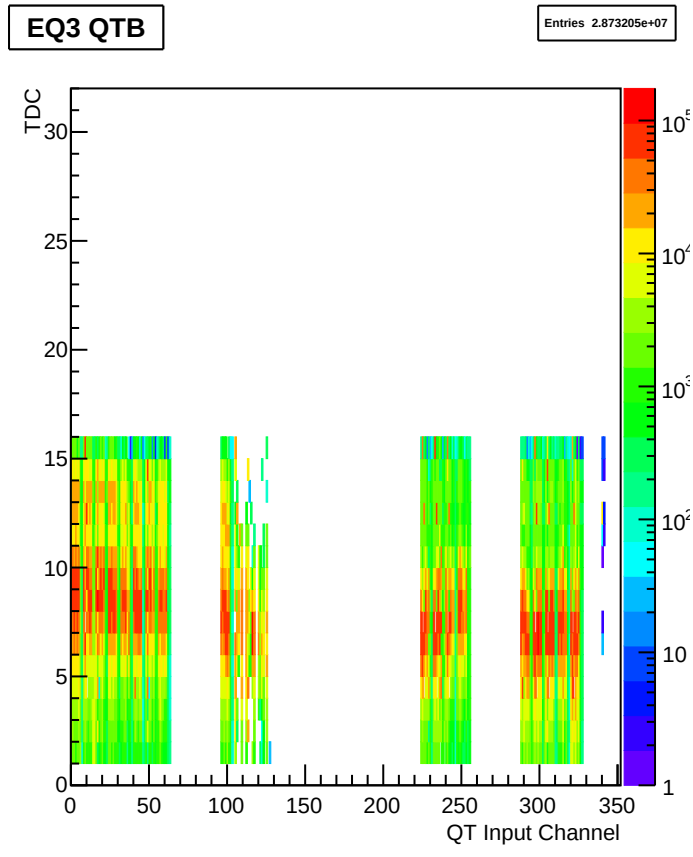

EQ2 QTB
Entries 1.032042e+08
ADC
QT Input Channel

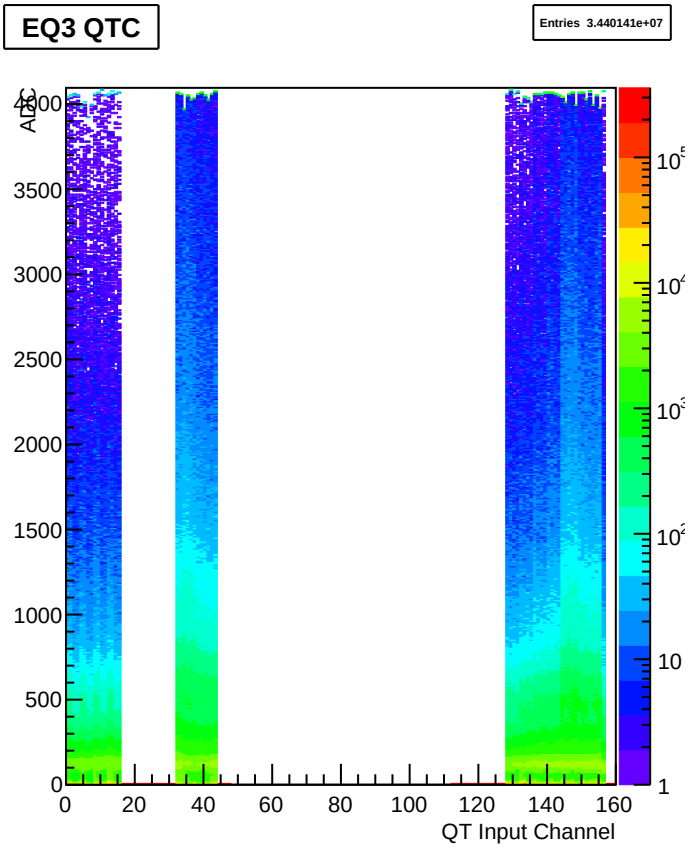

EQ2 QTB
Entries 2.907524e+07
TDC
QT Input Channel

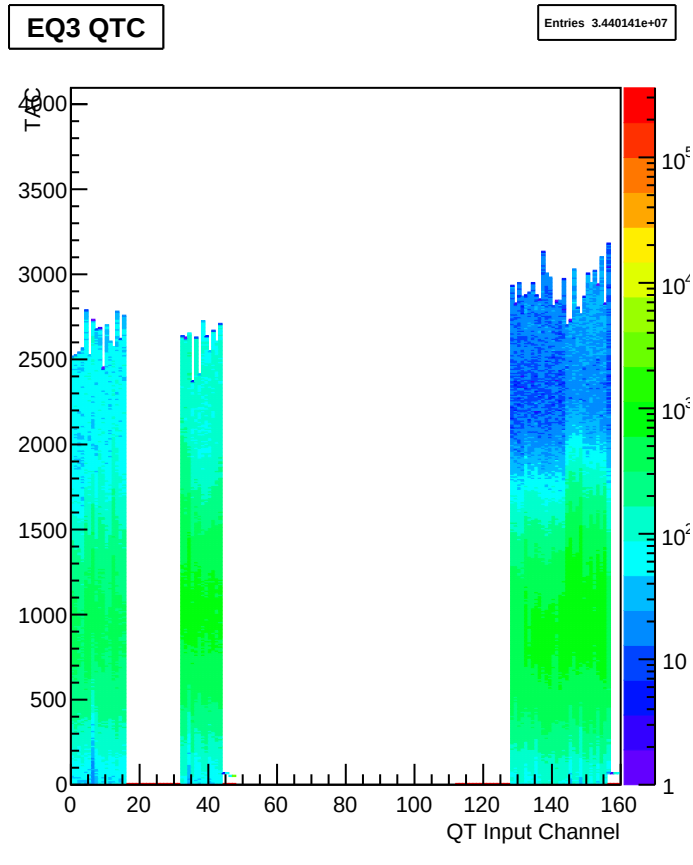

EQ2 QTC
Entries 3.440141e+07
ADC
QT Input Channel

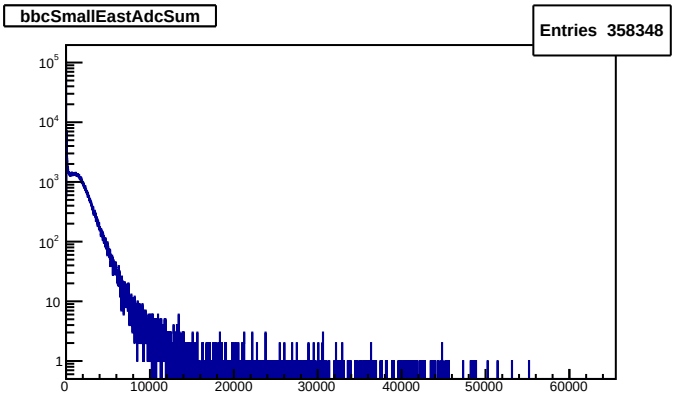

EQ2 QTC
Entries 3.440141e+07
TADC
QT Input Channel

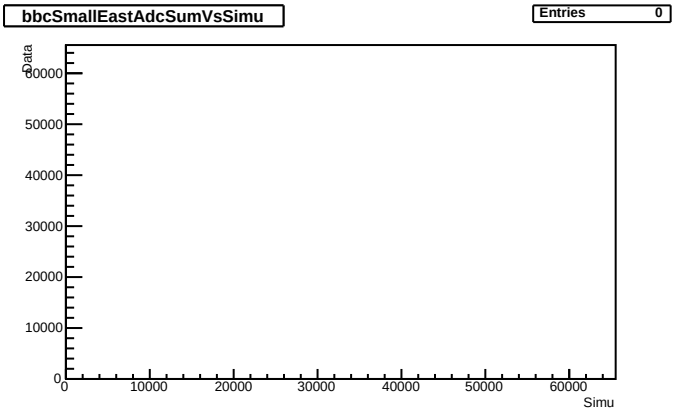

EQ3 QTB
Entries 9.173709e+07
ADC
QT Input Channel

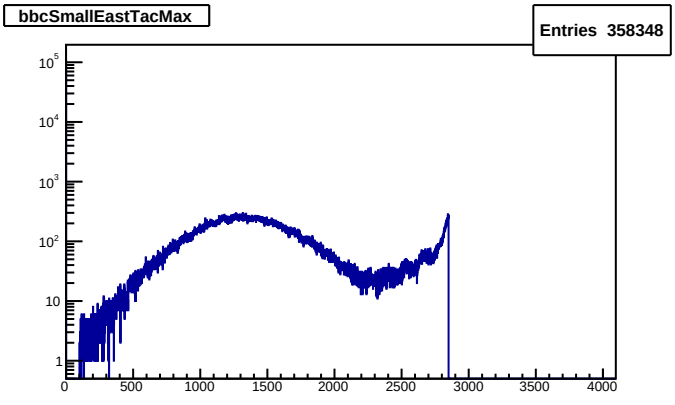

EQ3 QTB
Entries 2.873205e+07
TDC
QT Input Channel

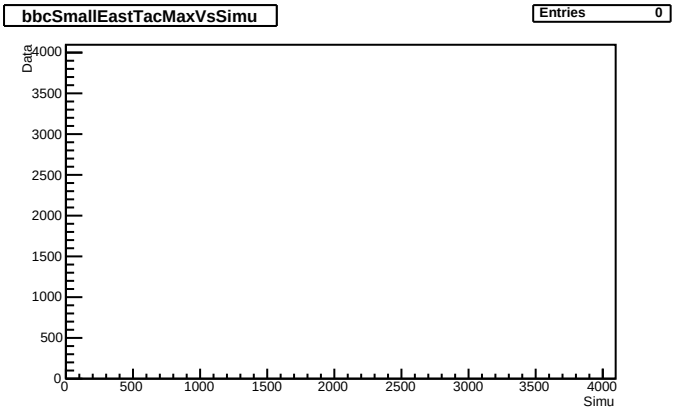

EQ3 QTC
Entries 3.440141e+07
ADC
QT Input Channel


EQ3 QTC
Entries 3.440141e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 358348


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 358348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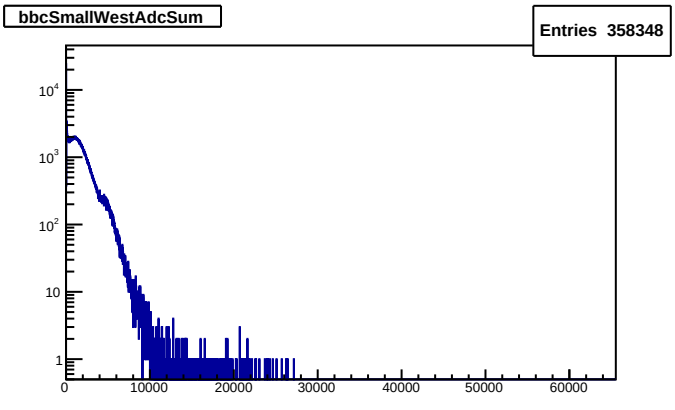
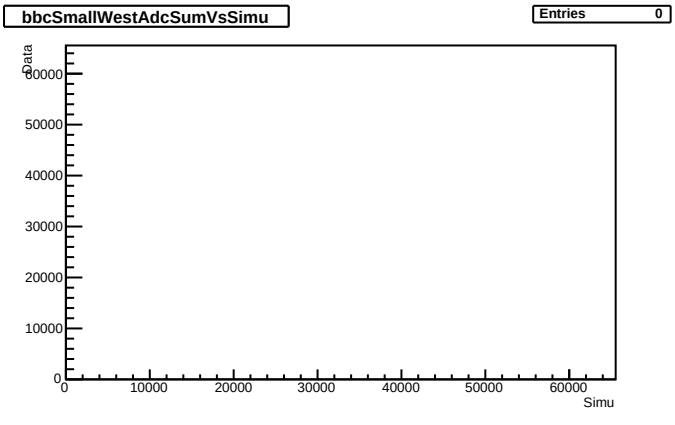

bbcSmallWestAdcSum
Entries 358348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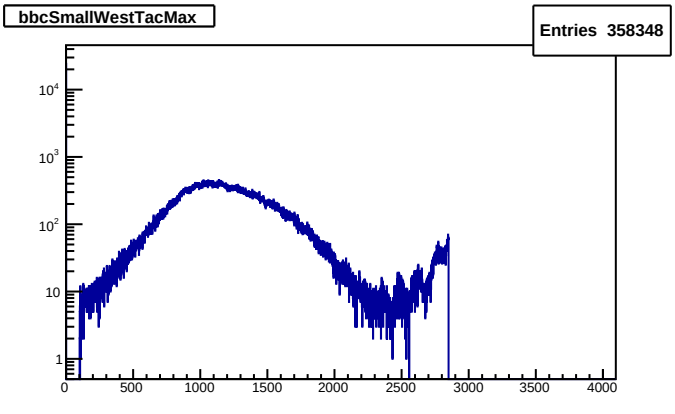
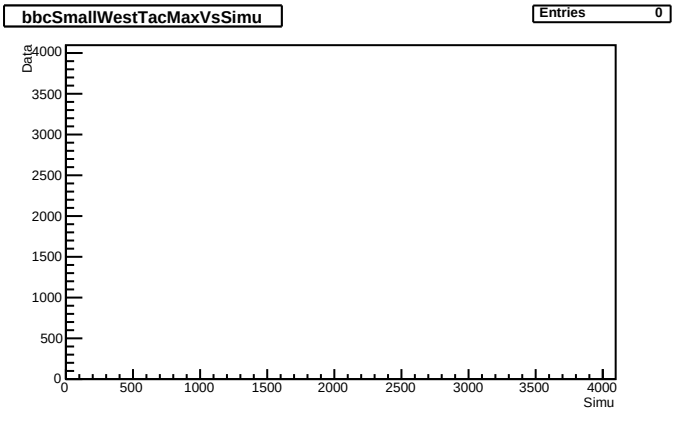
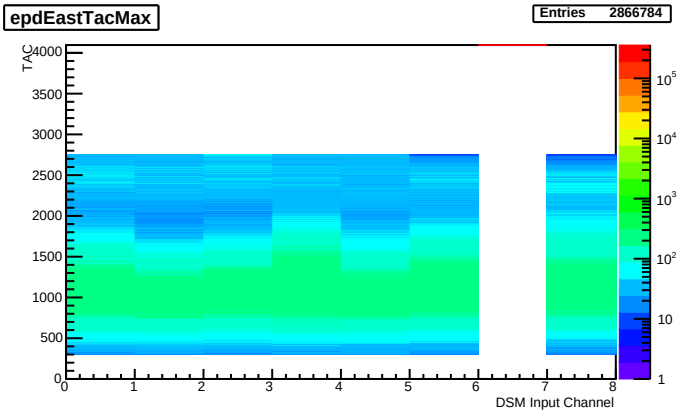
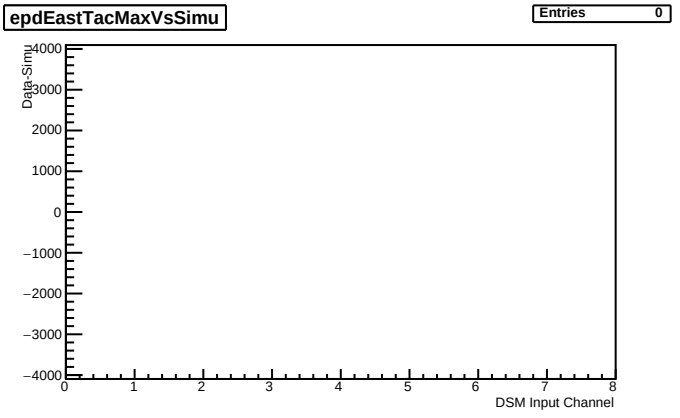
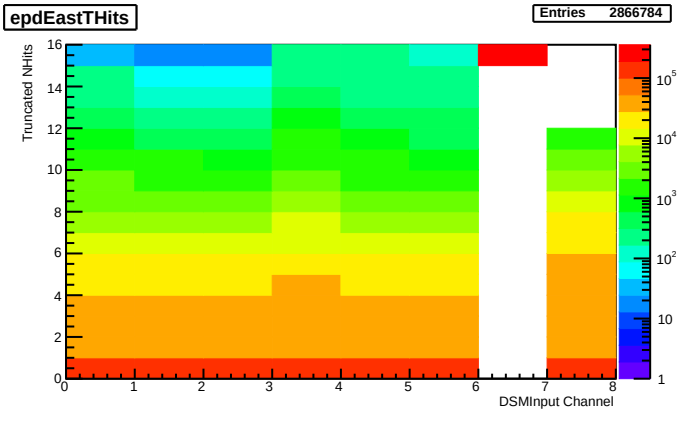
Entries 0
Data
Simu

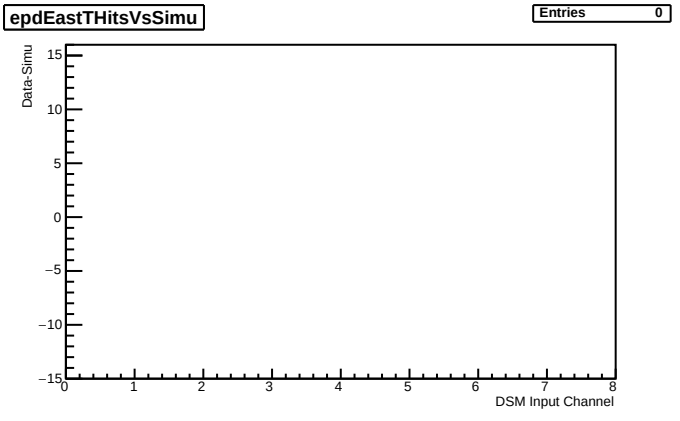

bbcSmallWestTacMax
Entries 358348


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 2866784
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 2866784
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
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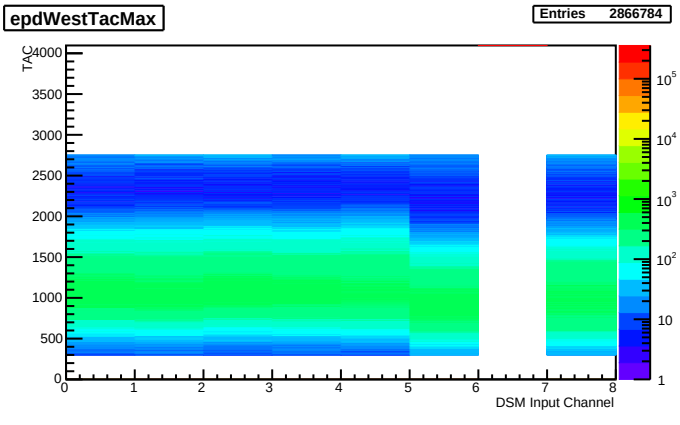
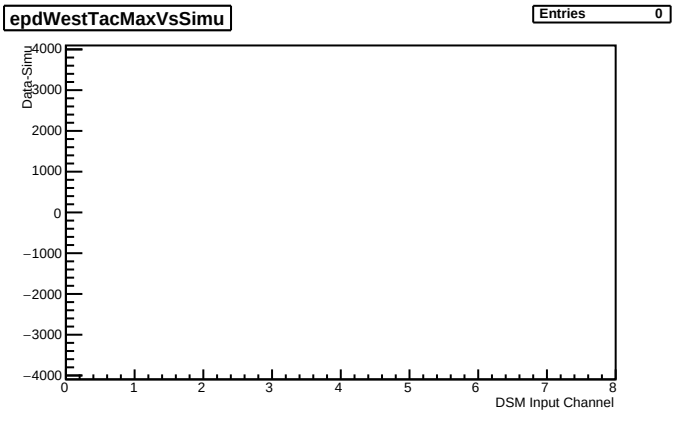
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 2866784
TAC
DSM Input Channel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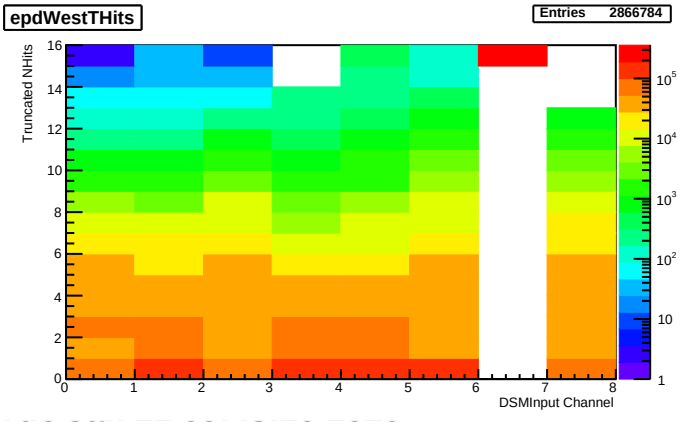
DSM Input Channel


epdWestTHits
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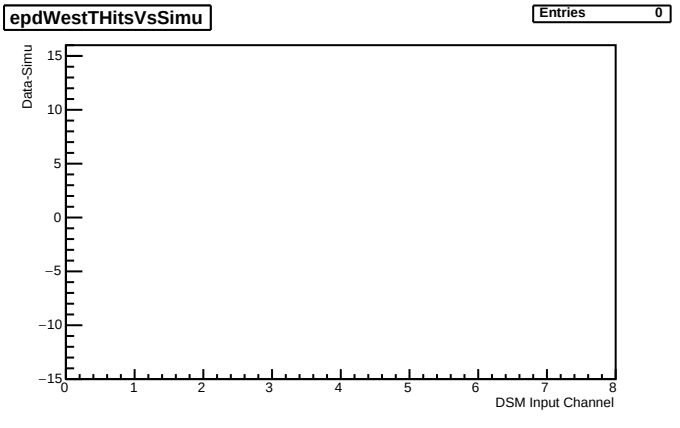
Truncated NHits
DSMInput Channel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Entries 0
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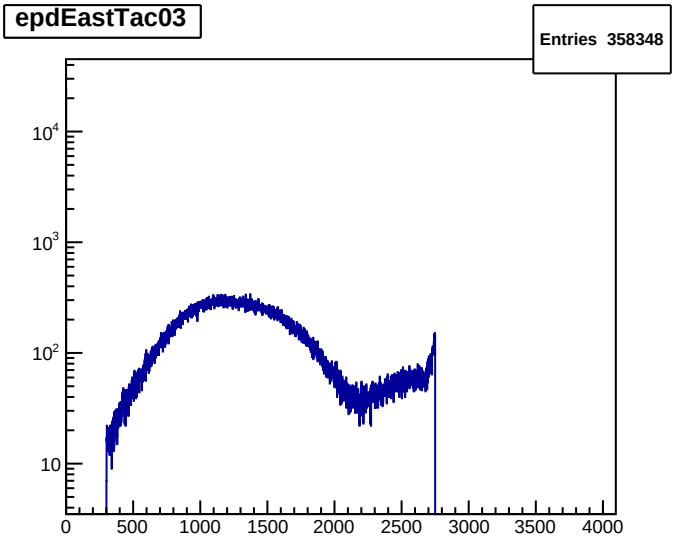
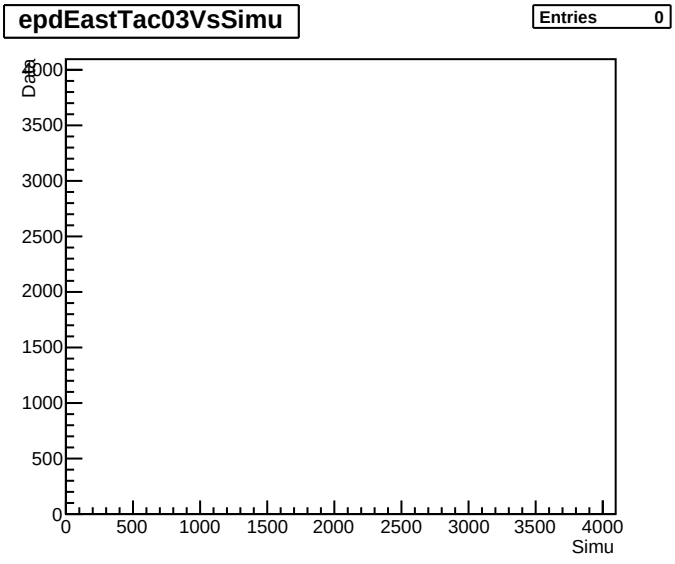
DSM Input Channel


epdEastTac03
Entries 358348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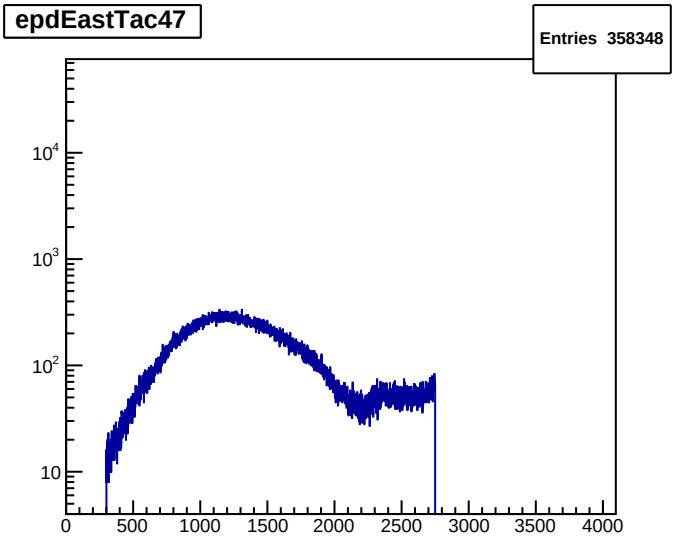
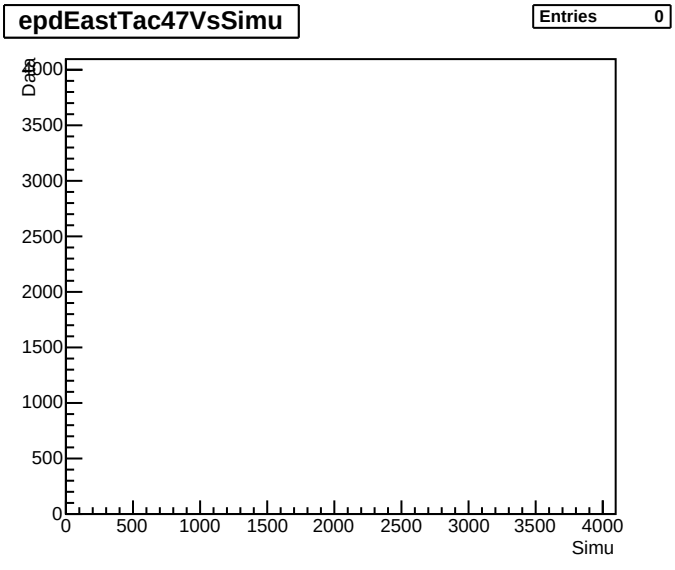
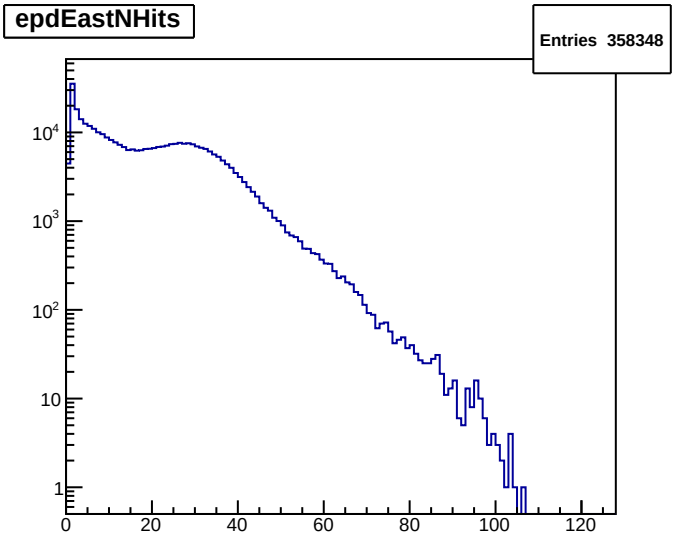
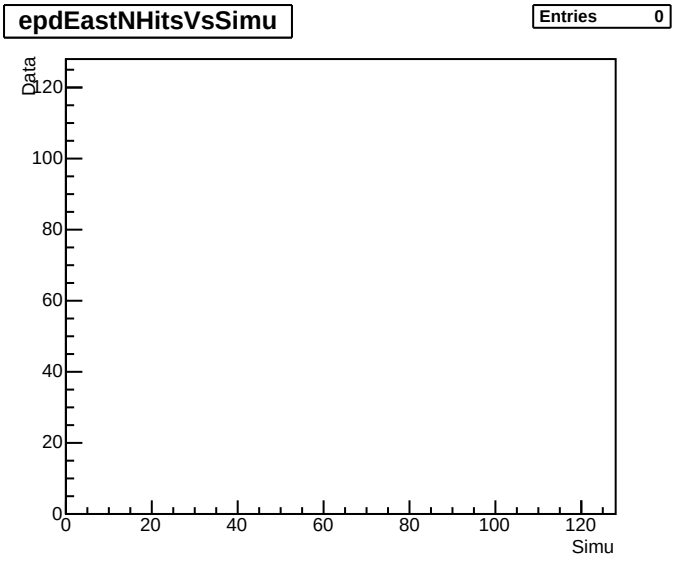
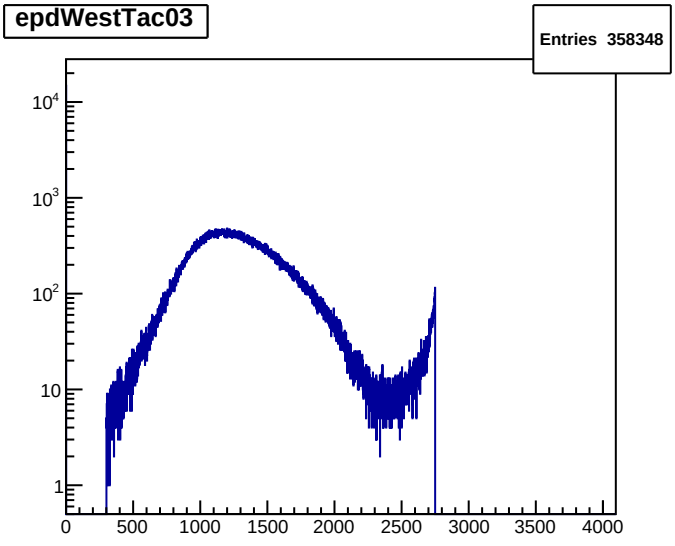
Entries 0
Data
Simu

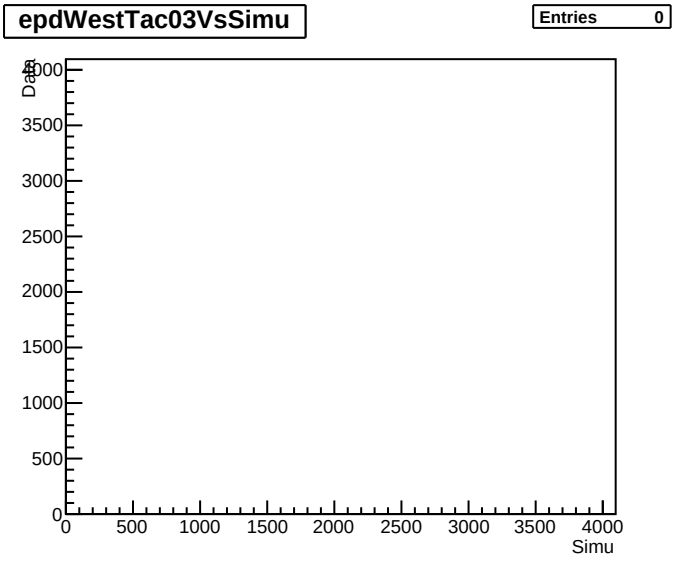

epdEastTac47
Entries 358348


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 358348


epdEastNHitsVsSimu
Entries 0
Data
Simu


epdWestTac03
Entries 358348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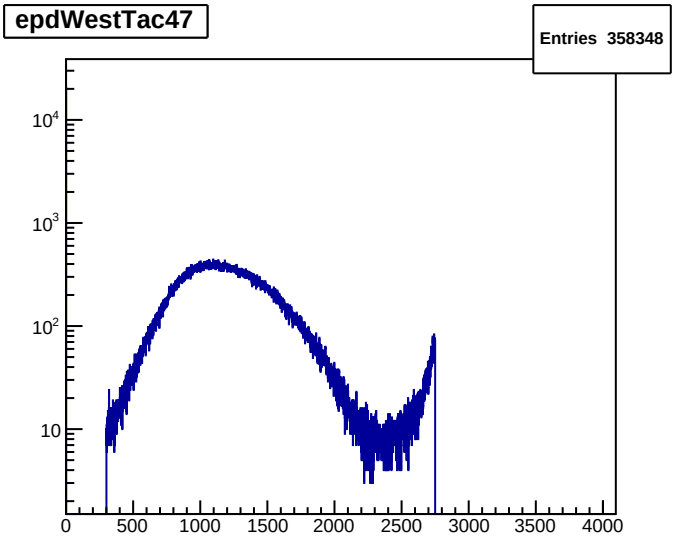
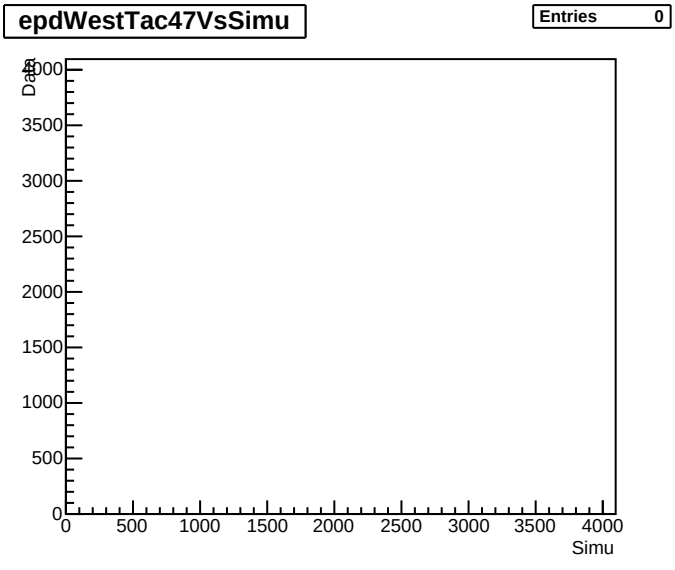
Entries 0
Data
Simu


epdWestTac47
Entries 358348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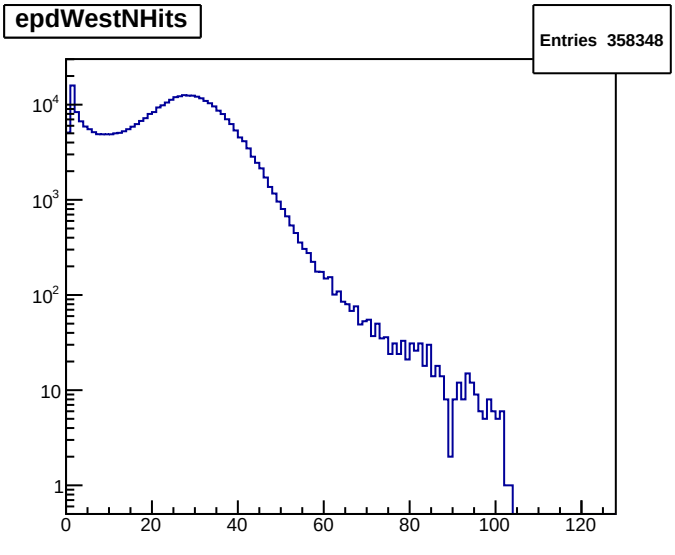
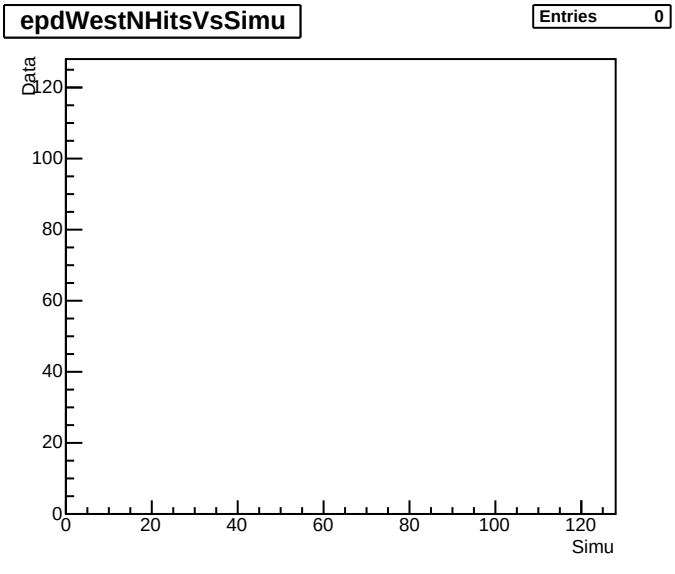
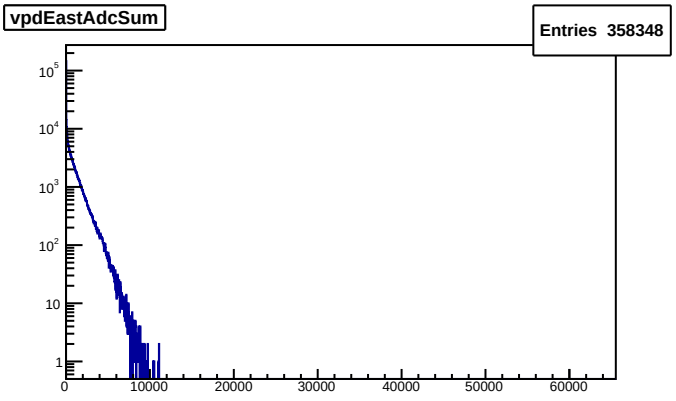
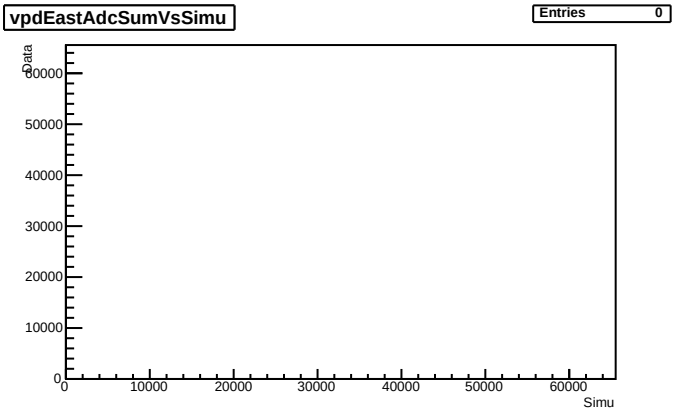
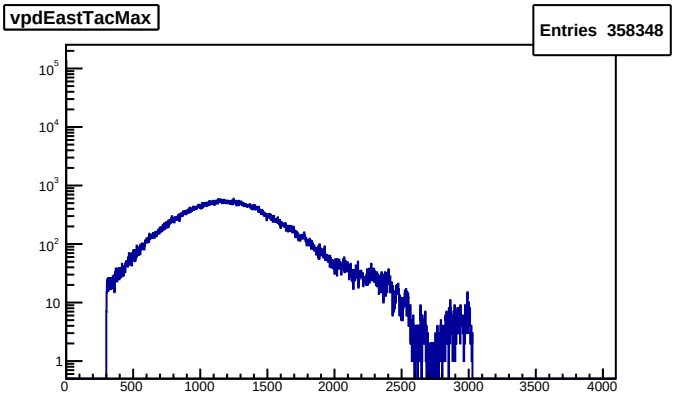
Data
Simu

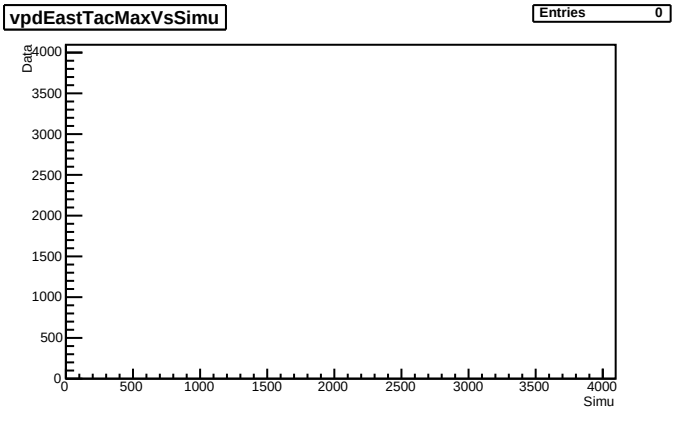

epdWestNHits
Entries 358348

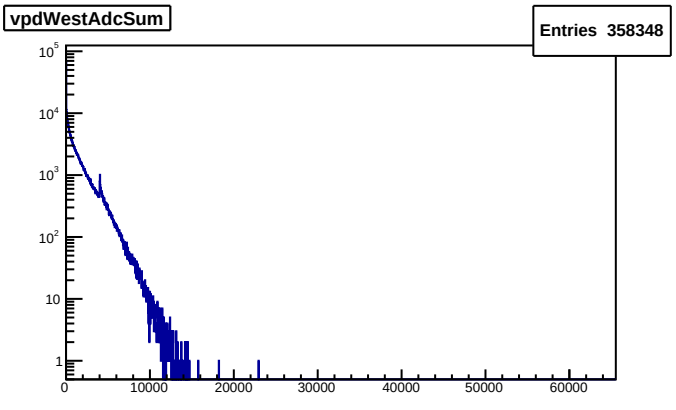

epdWestNHitsVsSimu
Entries 0
Data
Simu

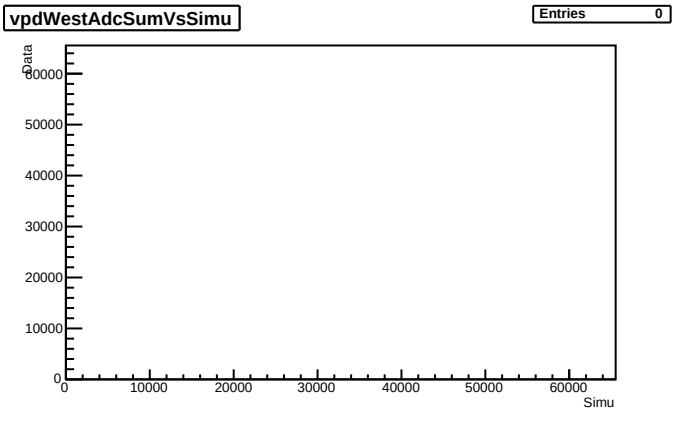

vpdEastAdcSum
Entries 358348

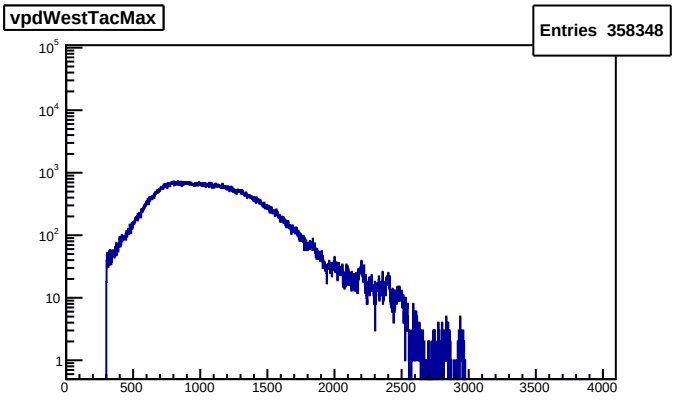

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

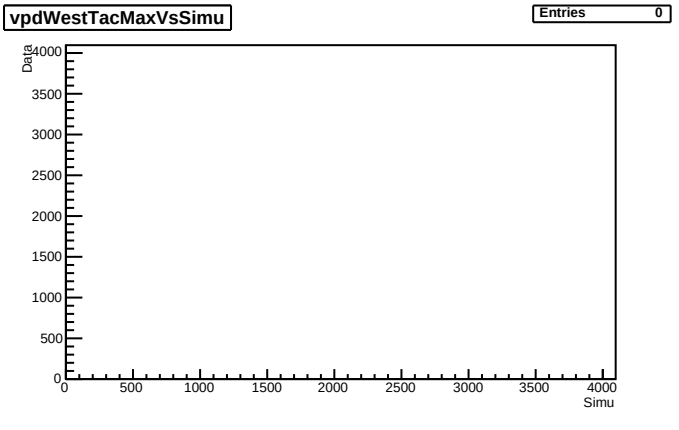

vpdEastTacMax
Entries 358348

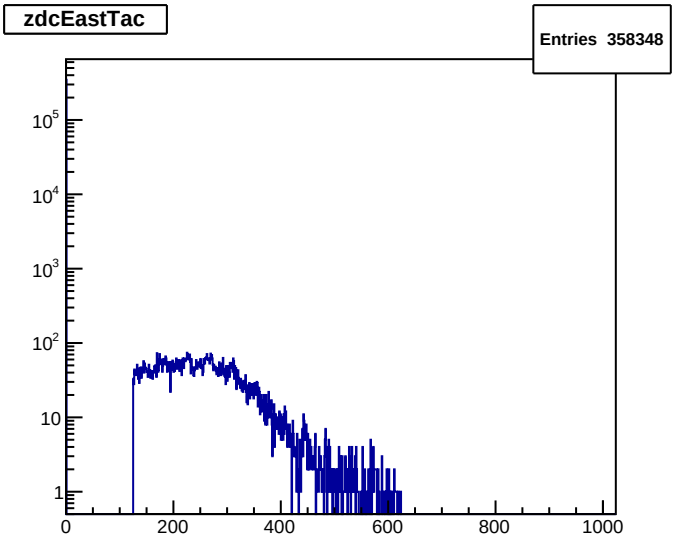

vpdEastTacMaxVsSimu
Entries 0
Data
Simu


vpdWestAdcSum
Entries 358348


vpdWestAdcSumVsSimu
Entries 0
Data
Simu


vpdWestTacMax
Entries 358348


vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 358348
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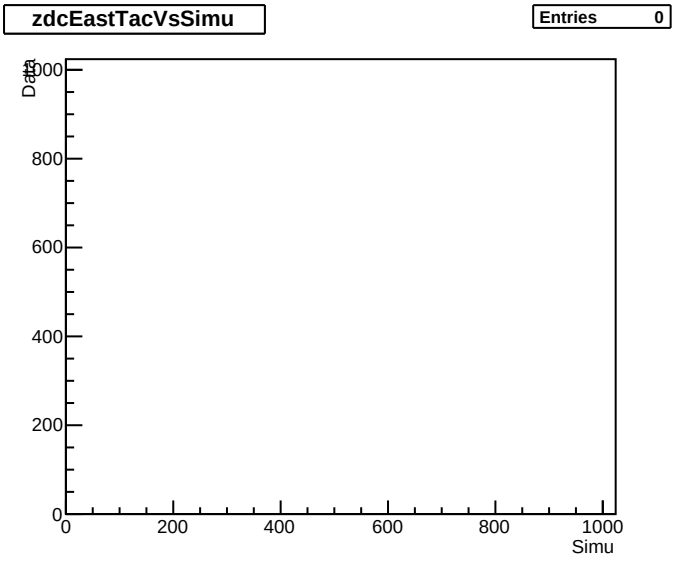
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000


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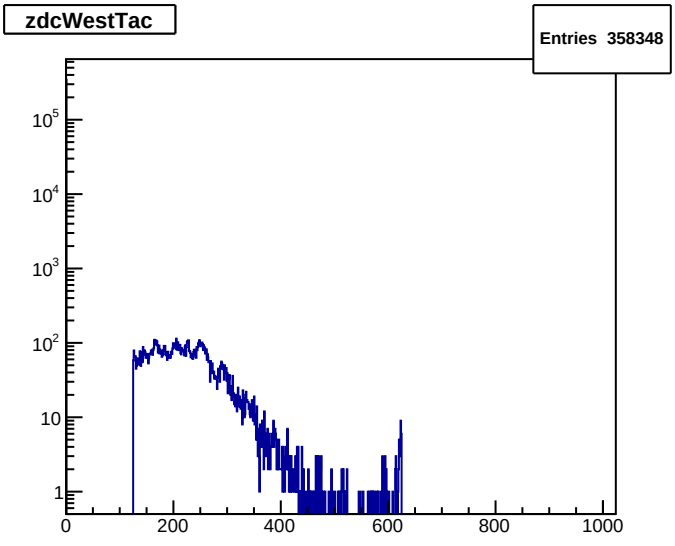
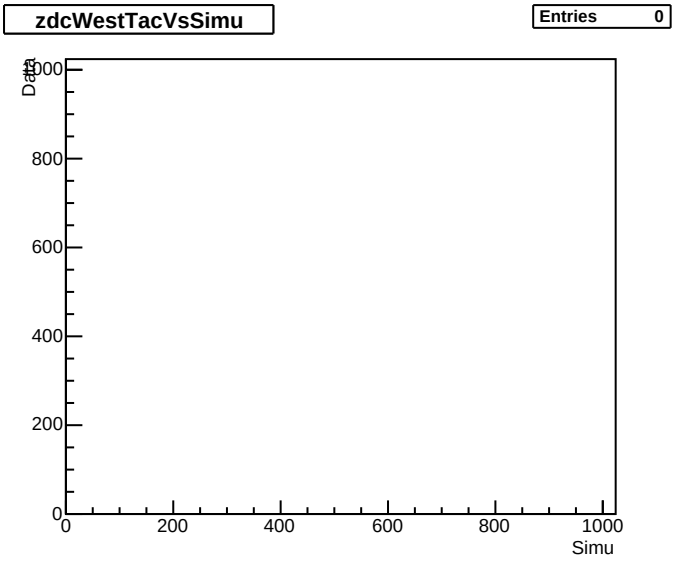
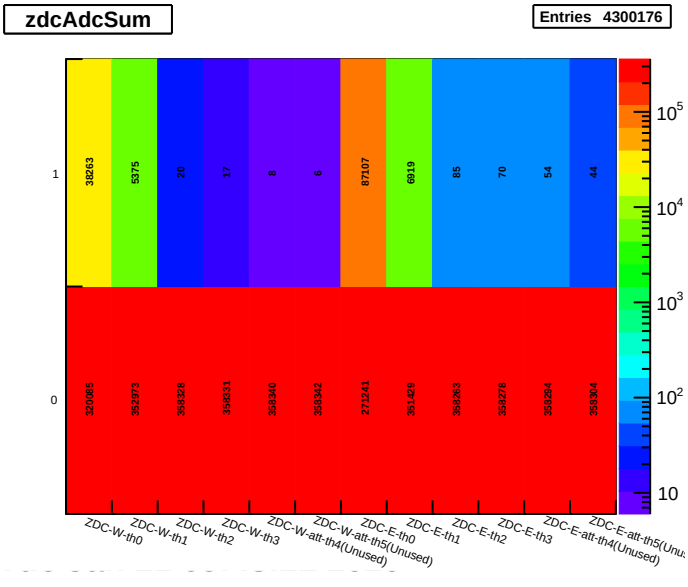
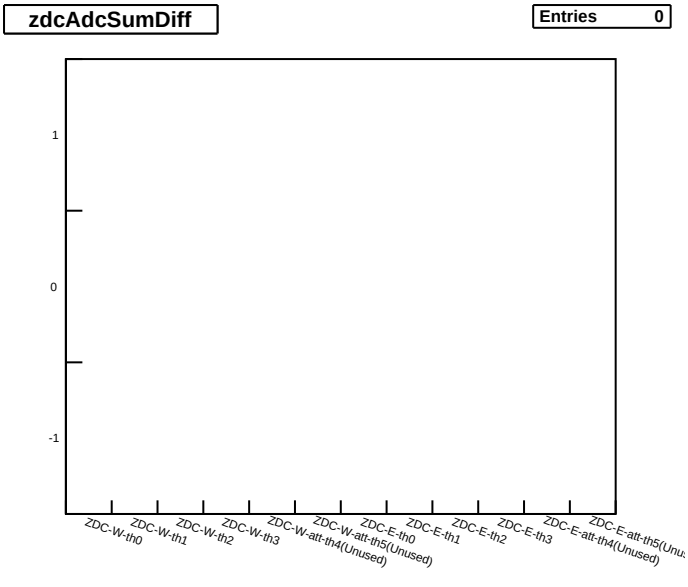
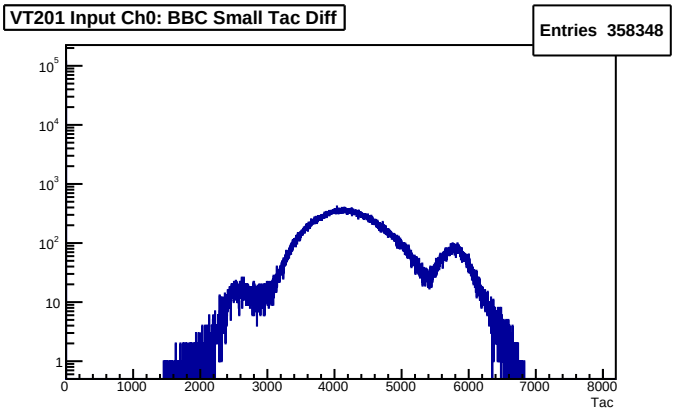
800
600
400
200
0
0
200
400
600
800
1000
Simu

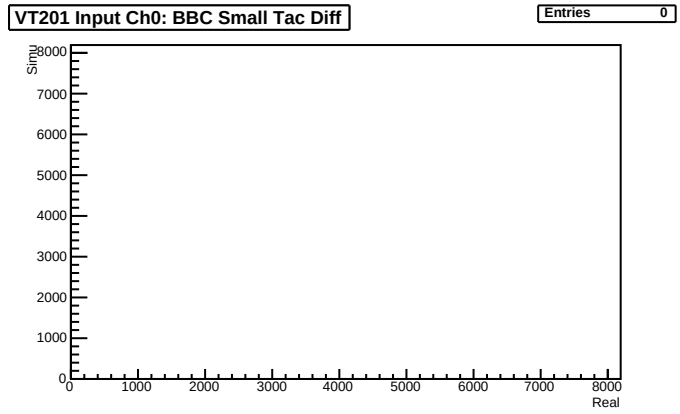

zdcWestTac
Entries 358348
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000

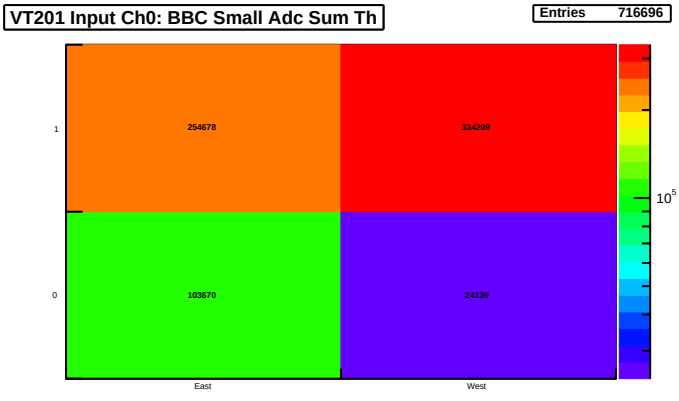

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

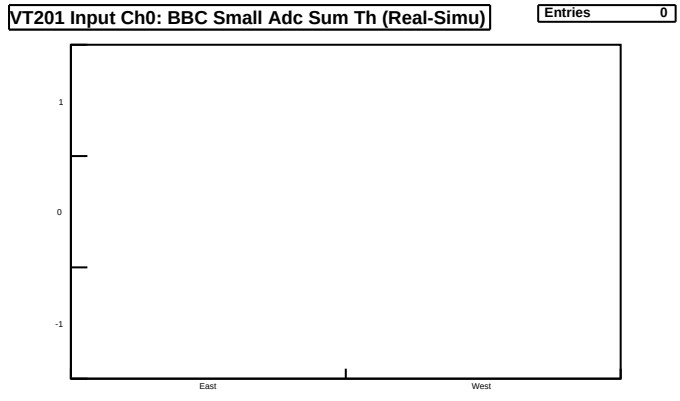

zdcAdcSum
Entries 4300176
1
0
38263
5375
20
17
8
6
87107
6919
85
70
54
44
320085
352973
358328
358331
358340
358342
271241
351429
358263
358278
358294
358304
$10^5$
$10^4$
$10^3$
$10^2$
10
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

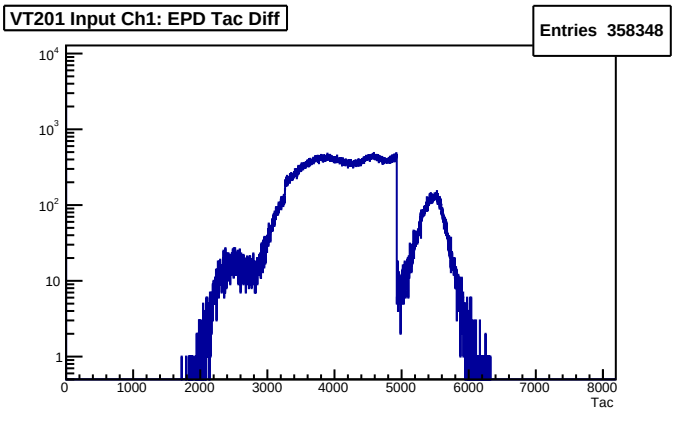

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

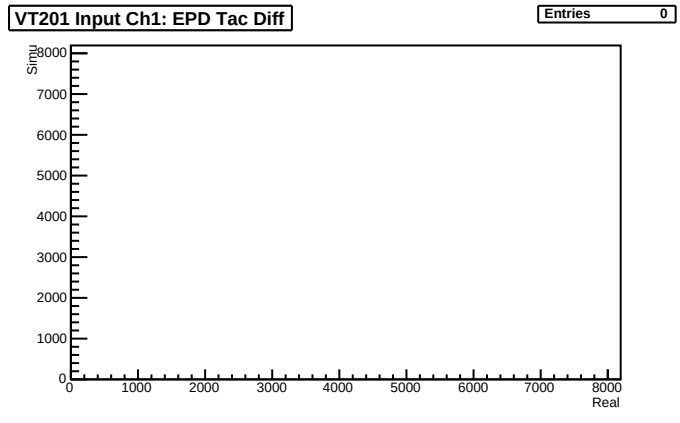

VT201 Input Ch0: BBC Small Tac Diff
Entries 358348
Tac

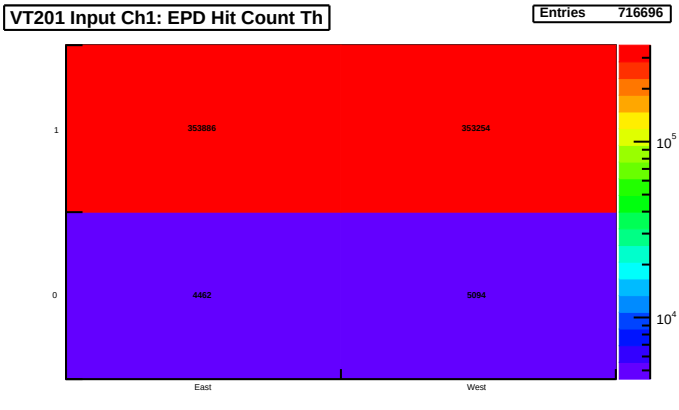

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

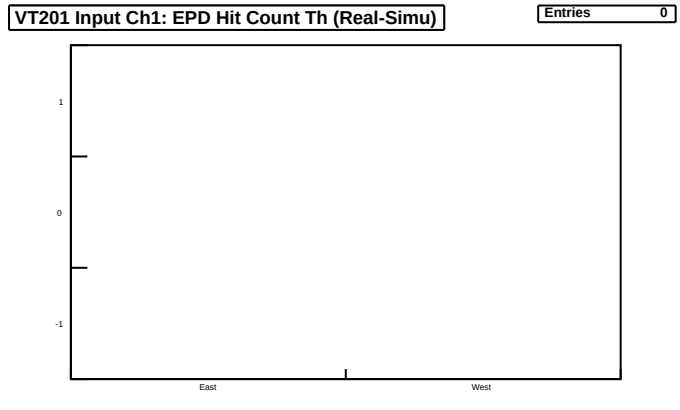

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 716696
254678
334209
103670
24139
East
West

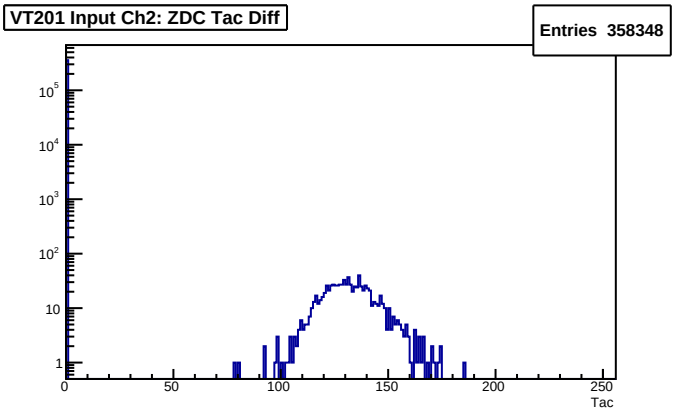

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

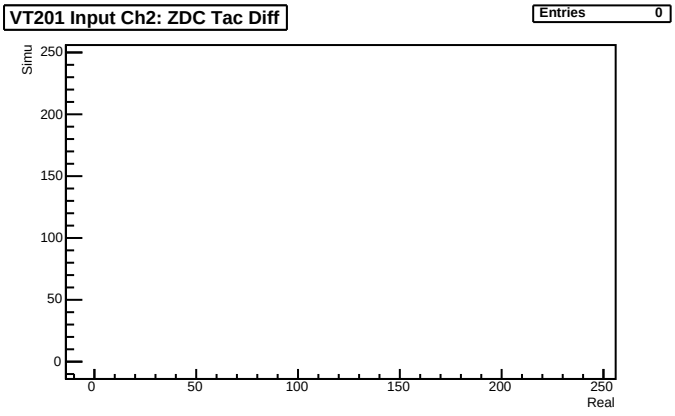

VT201 Input Ch1: EPD Tac Diff
Entries 358348
Tac

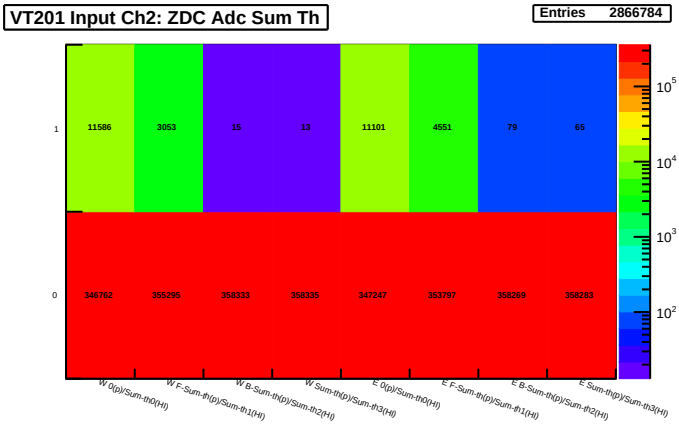

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

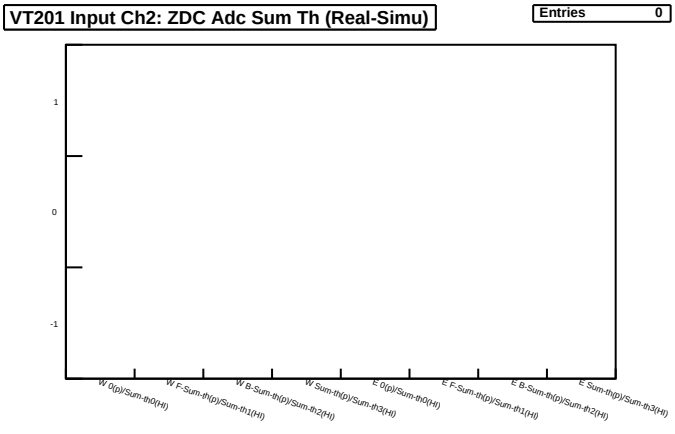

VT201 Input Ch1: EPD Hit Count Th
Entries 716696
353886
353254
4462
5094
East
West

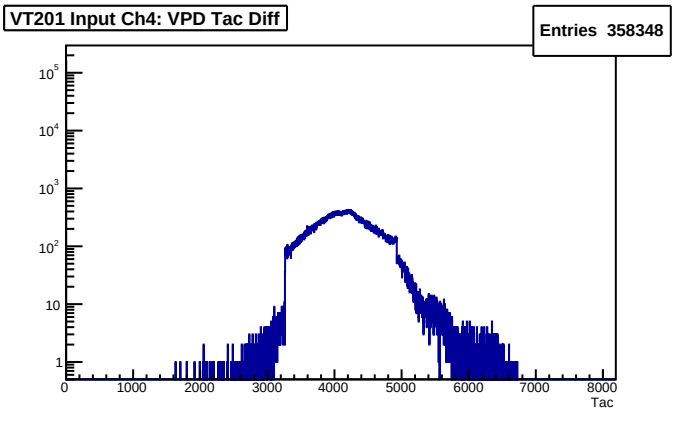

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

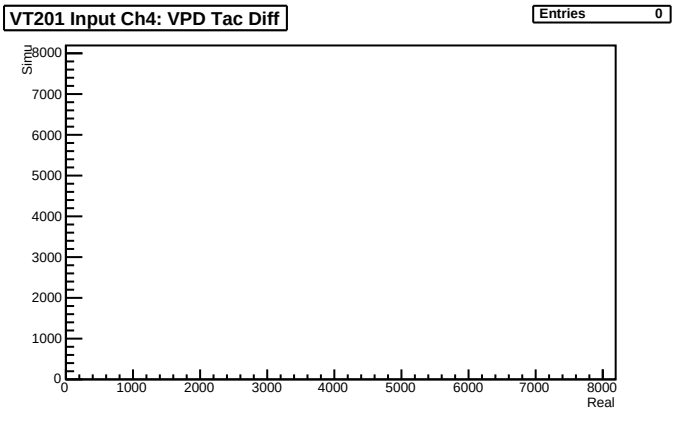

VT201 Input Ch2: ZDC Tac Diff
Entries 358348
Tac

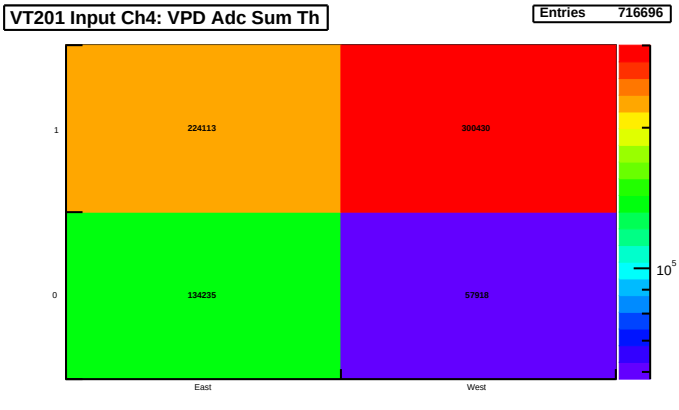

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

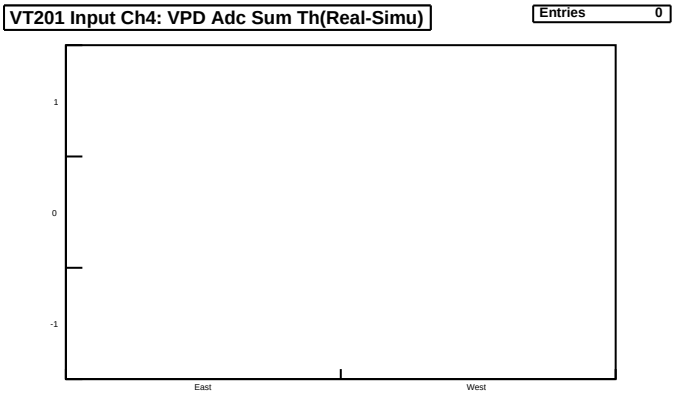

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2866784
11586
3053
15
13
11101
4551
79
65
346762
355295
358333
358335
347247
353797
358269
358283
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

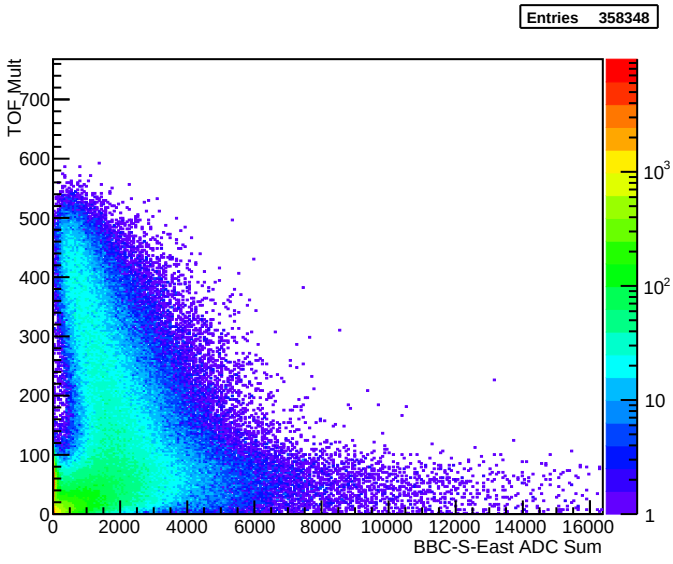

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

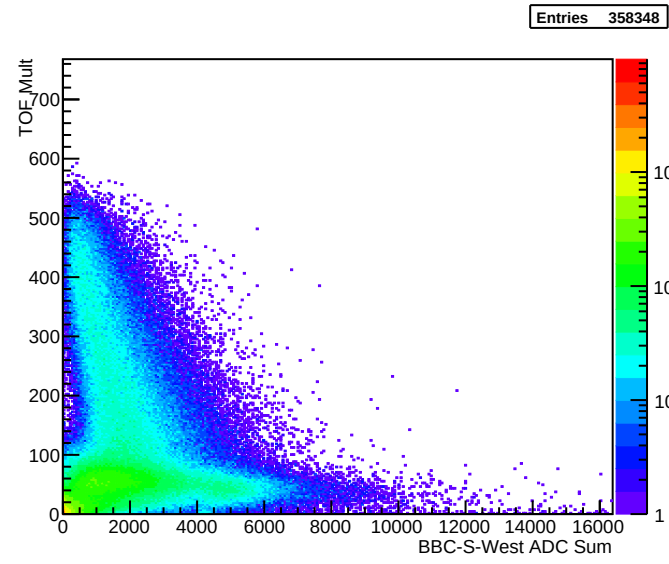

VT201 Input Ch4: VPD Tac Diff
Entries 358348
Tac

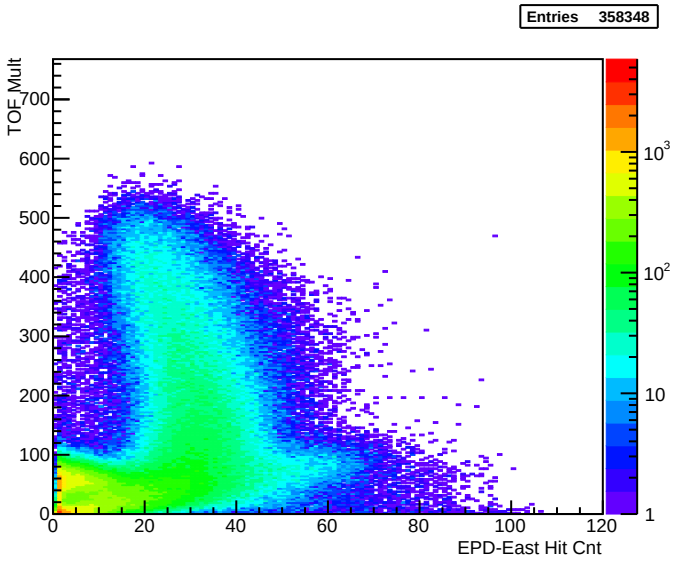

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

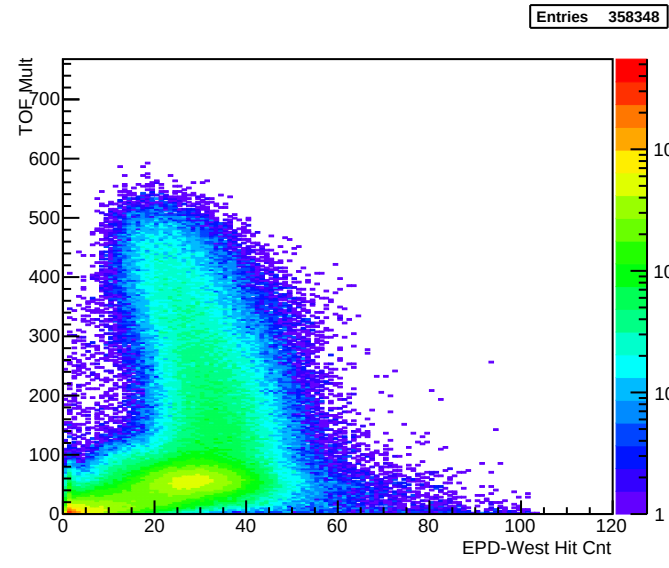

VT201 Input Ch4: VPD Adc Sum Th
Entries 716696
224113
300430
134235
57918
East
West

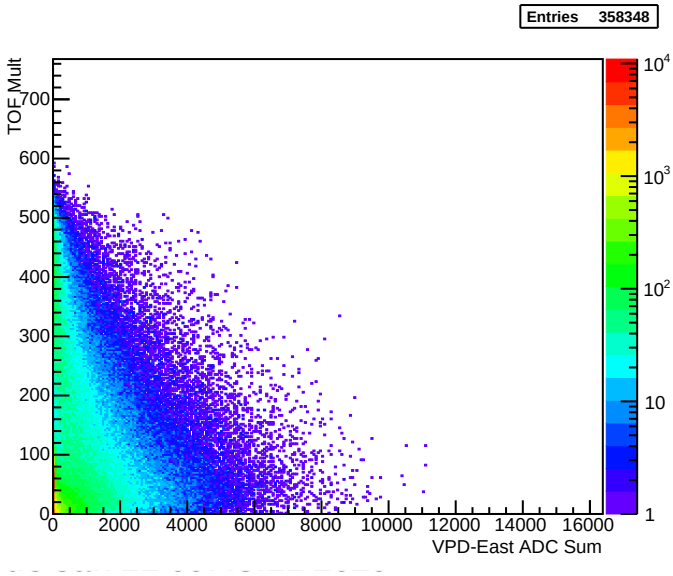

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

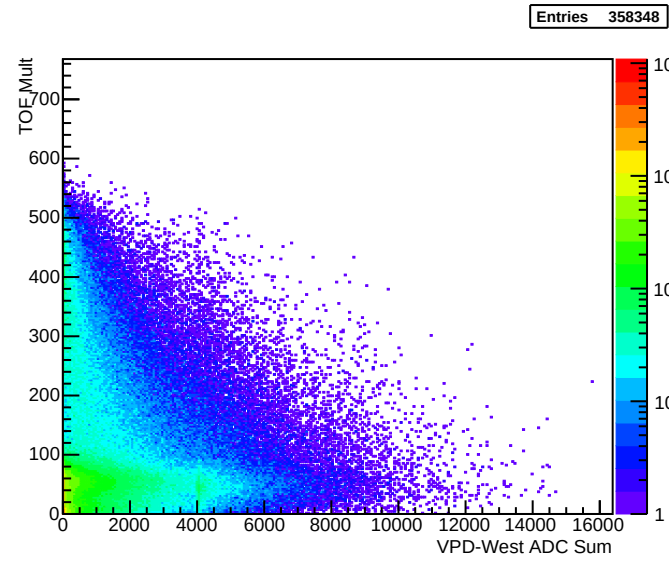

Entries 358348
TOF_Mult
BBC-S-East ADC Sum

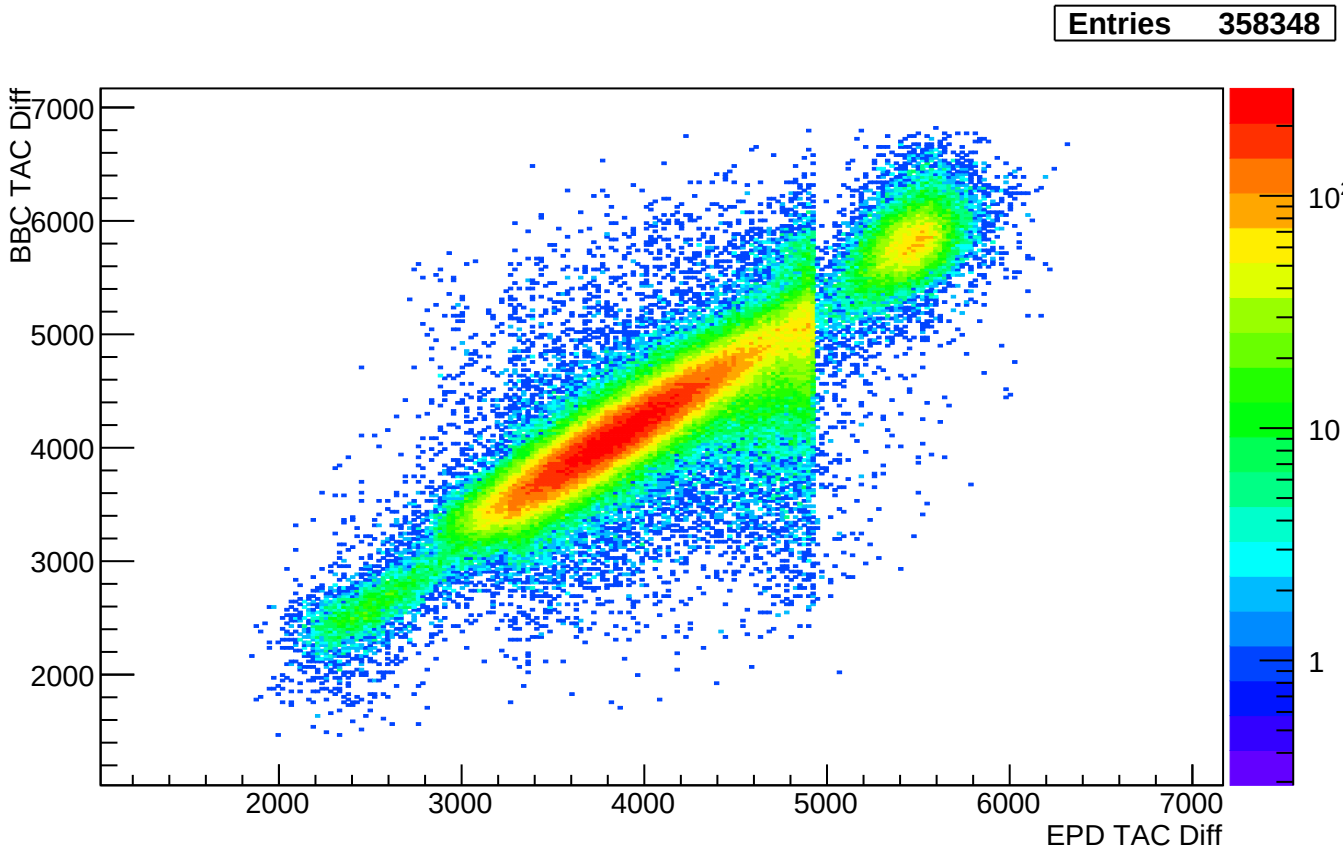

Entries 358348
TOF_Mult
BBC-S-West ADC Sum

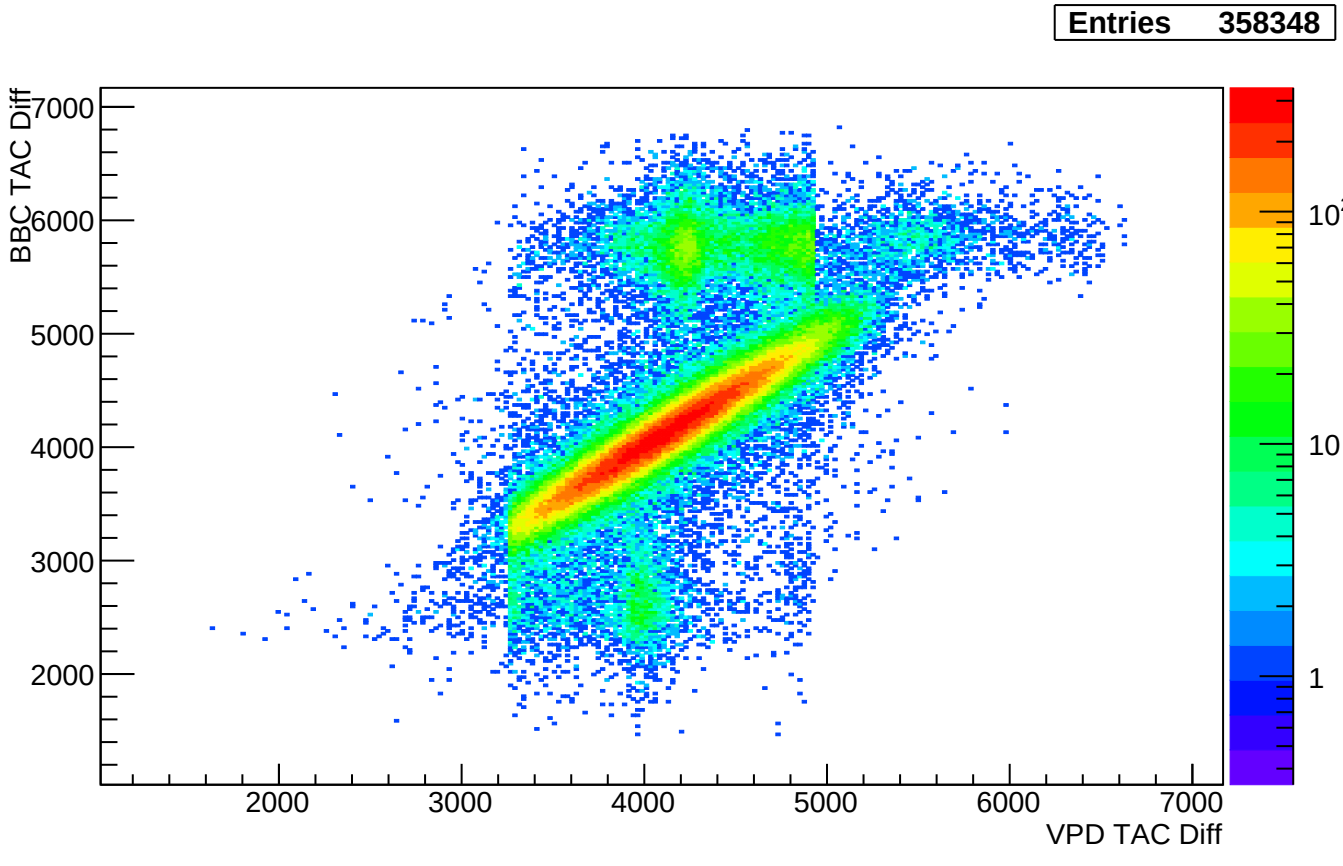

Entries 358348
TOF_Mult
EPD-East Hit Cnt

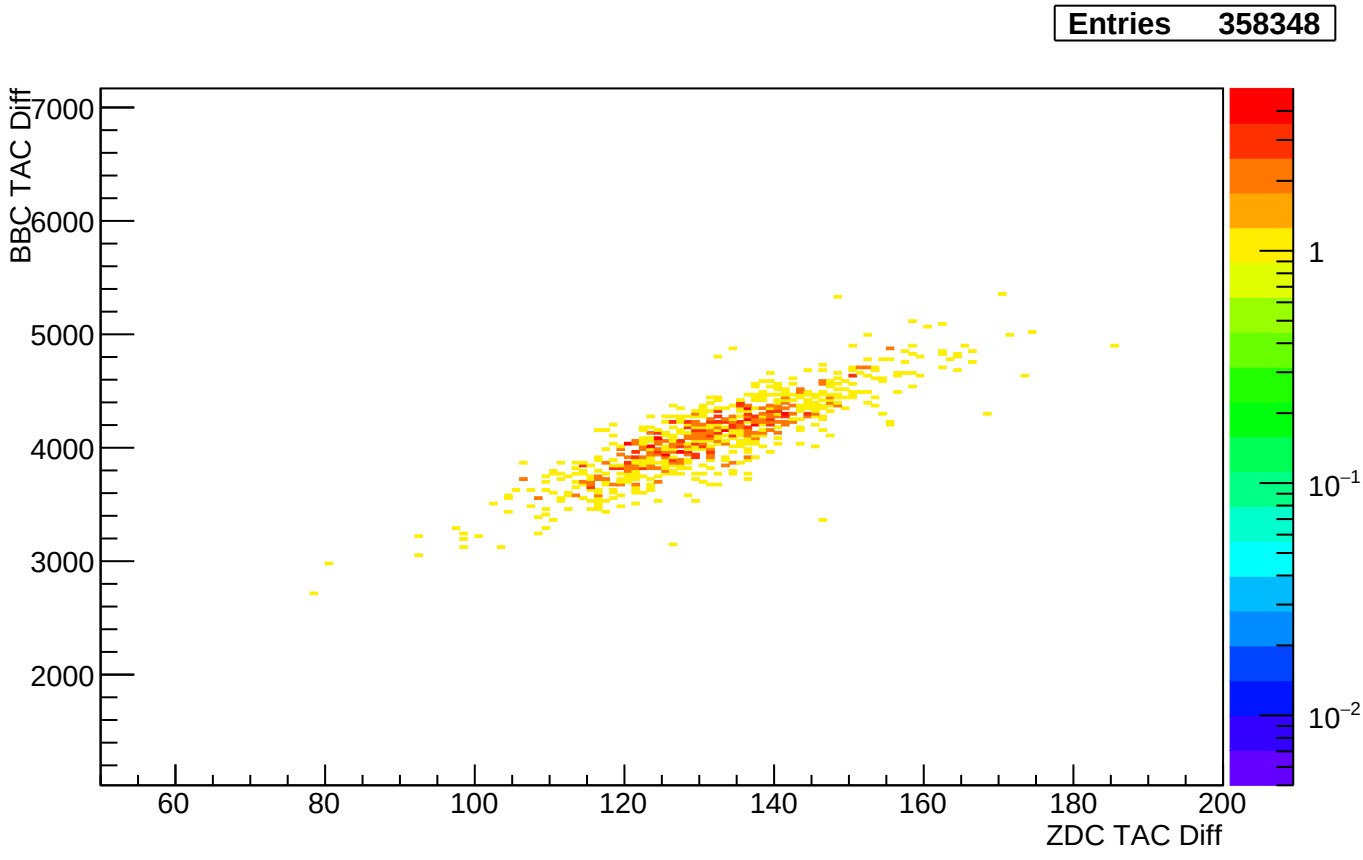

Entries 358348
TOF_Mult
EPD-West Hit Cnt

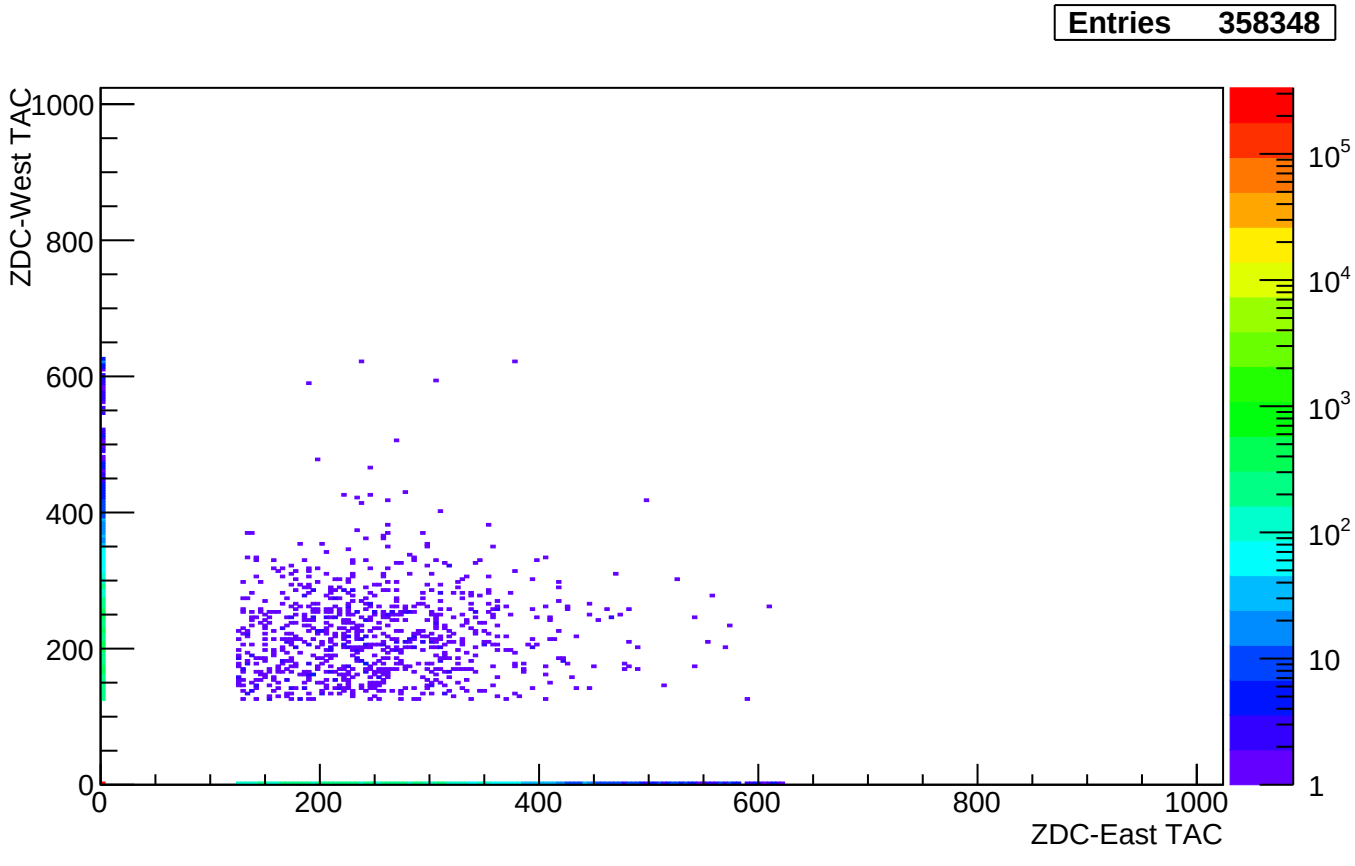

Entries 358348
TOF_Mult
VPD-East ADC Sum

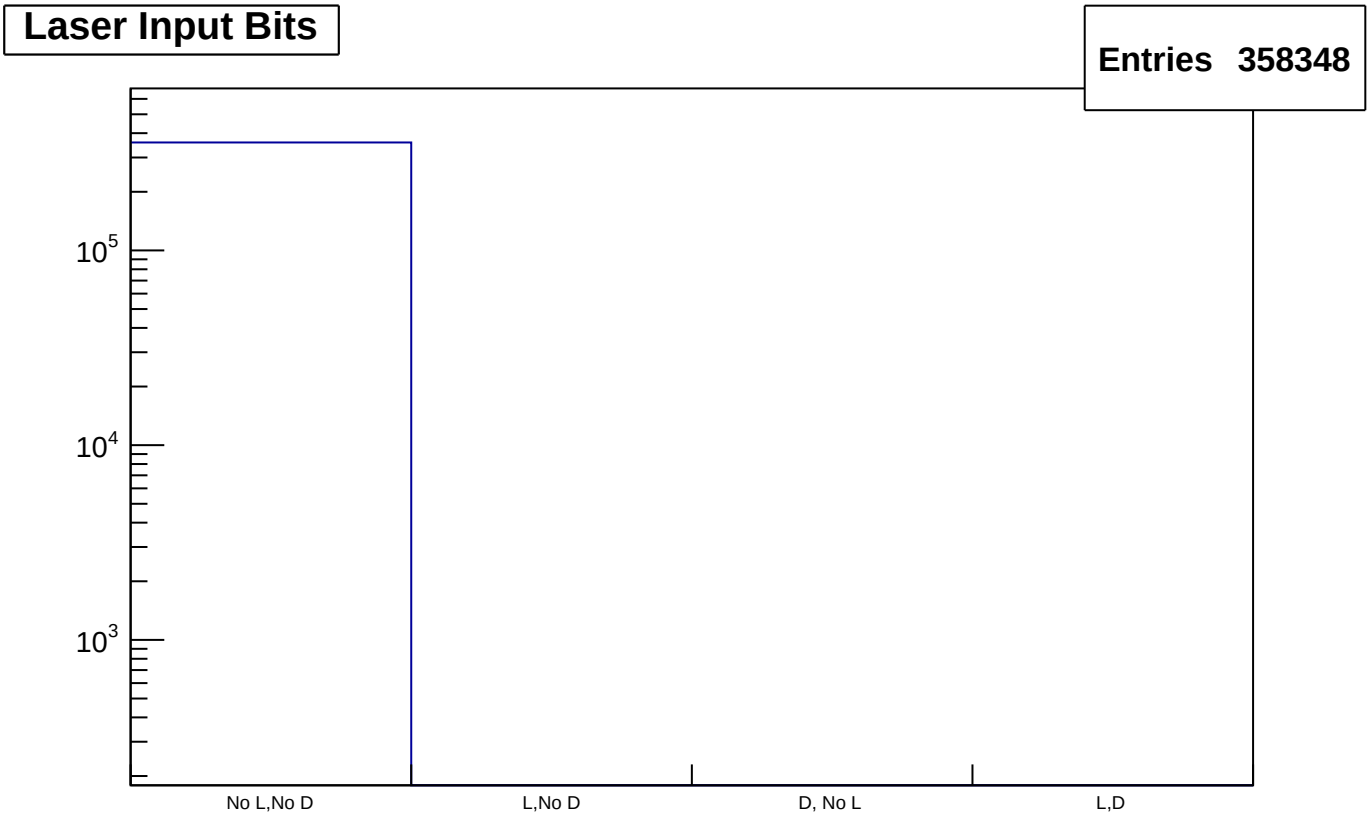

Entries 358348
TOF_Mult
VPD-West ADC Sum

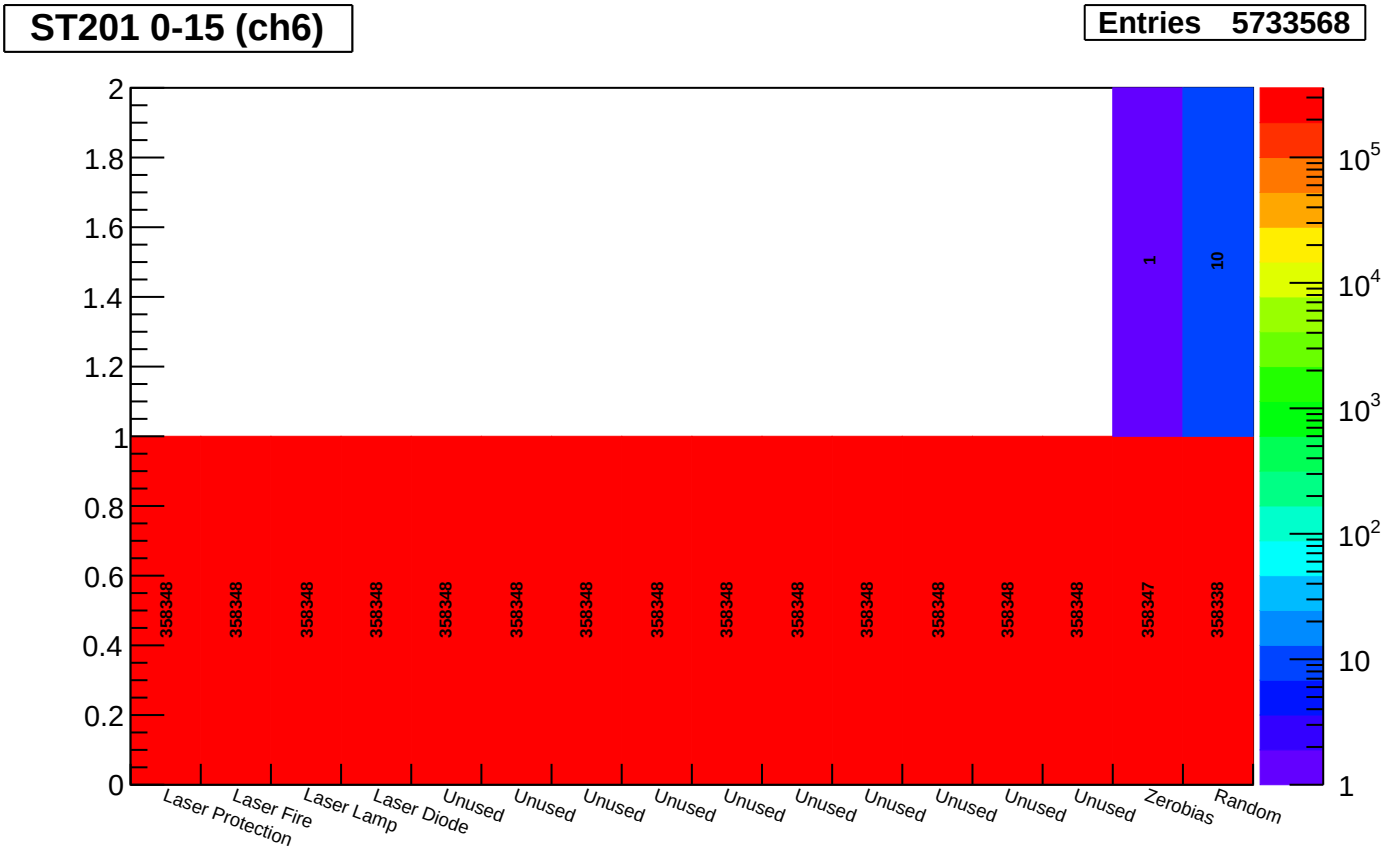

Entries 358348
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
$10^2$
10
1

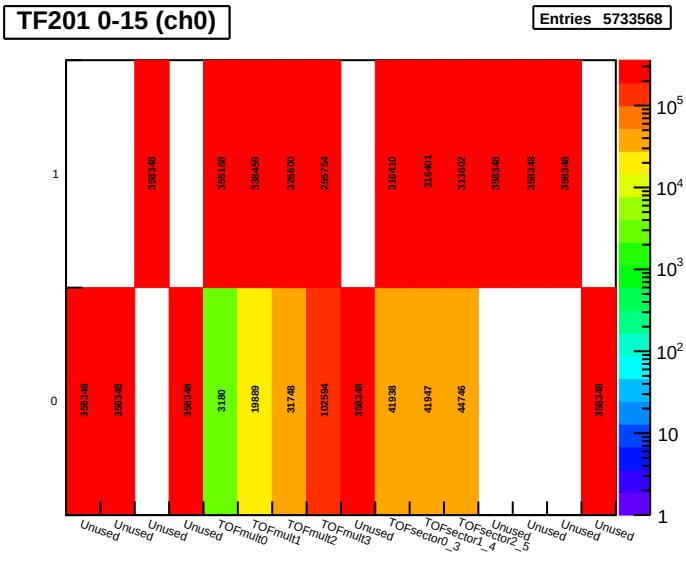

Entries 358348
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
$10^2$
10
1

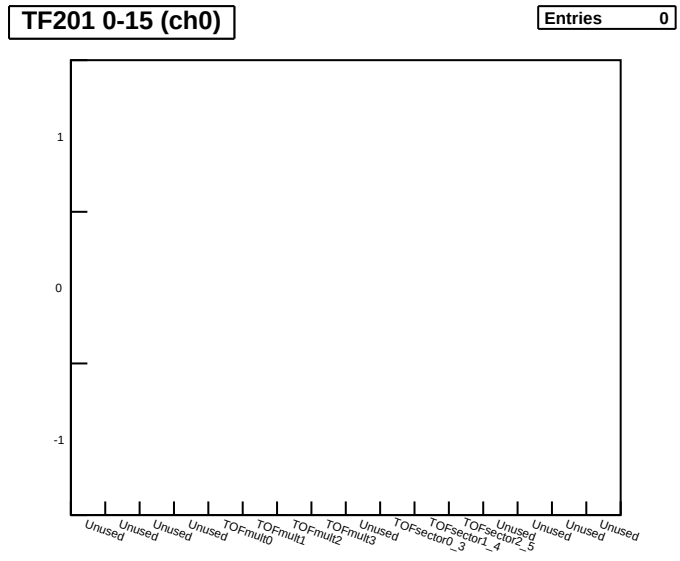

Entries 358348
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
$10^{-1}$
$10^{-2}$

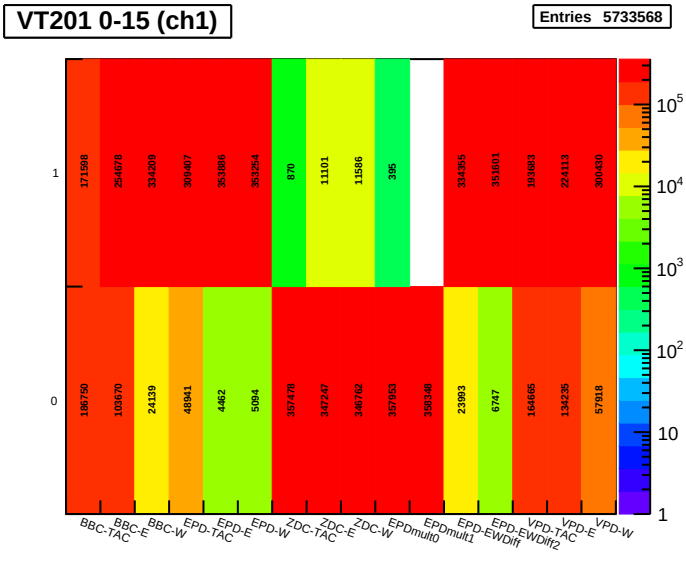

Entries 358348
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^5$
$10^4$
$10^3$
$10^2$
10
1

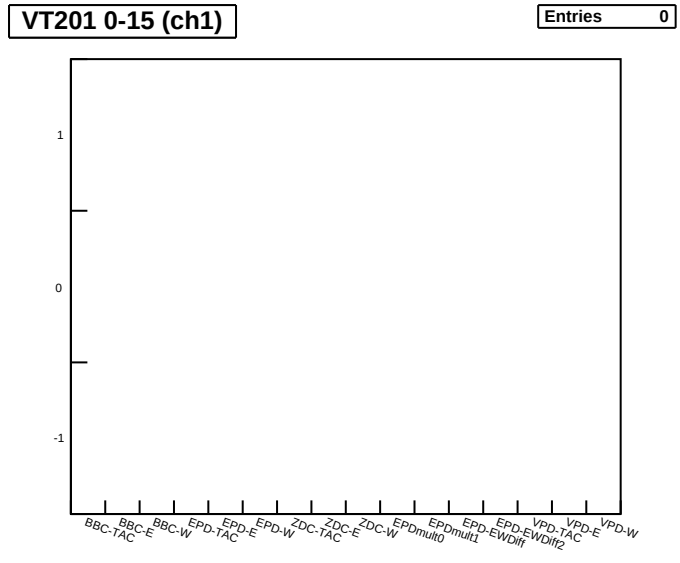

Laser Input Bits
Entries 358348
$10^5$
$10^4$
$10^3$
No L,No D
L,No D
D, No L
L,D

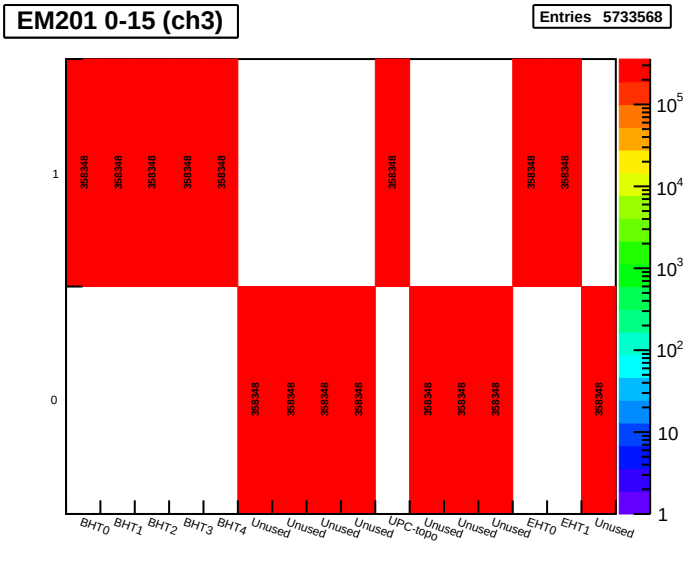

ST201 0-15 (ch6)
Entries 5733568
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358347
358338
1
10
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
$10^5$
$10^4$
$10^3$
$10^2$
10
1

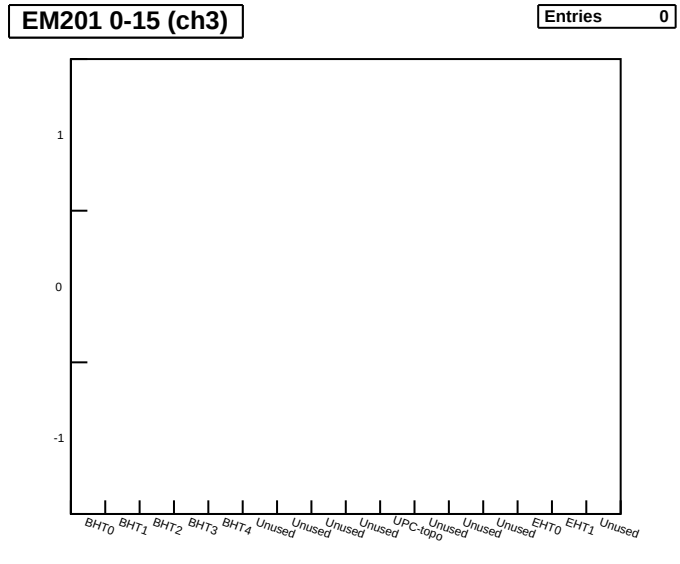

TF201 0-15 (ch0)
Entries 5733568
1
0
358348
358348
358348
3180
19889
31748
102594
358348
41938
41947
44746
358348
358348
355168
338459
326600
255754
316410
316401
313602
358348
358348
358348
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
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
Unused


VT201 0-15 (ch1)
Entries 5733568
1
0
186750
103670
24139
48941
4462
5094
357478
347247
346762
357953
358348
23993
6747
164665
134235
57918
171598
254678
334209
309407
353986
353254
870
11101
11566
395
334355
351601
193683
224113
300420
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 5733568
1
0
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
358348
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