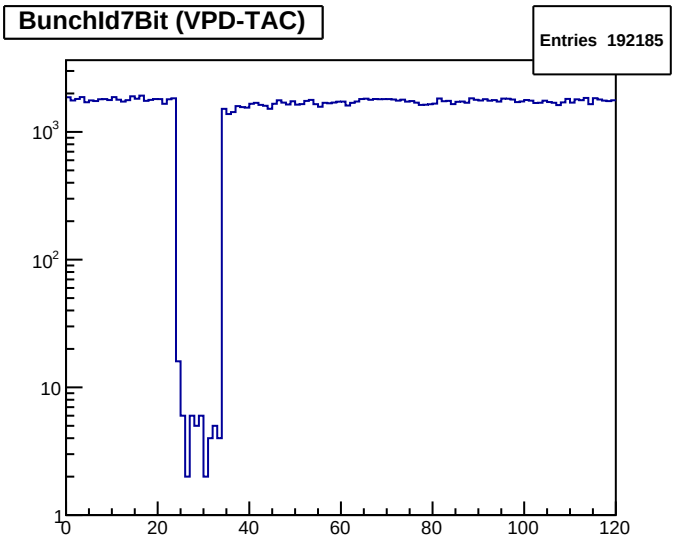
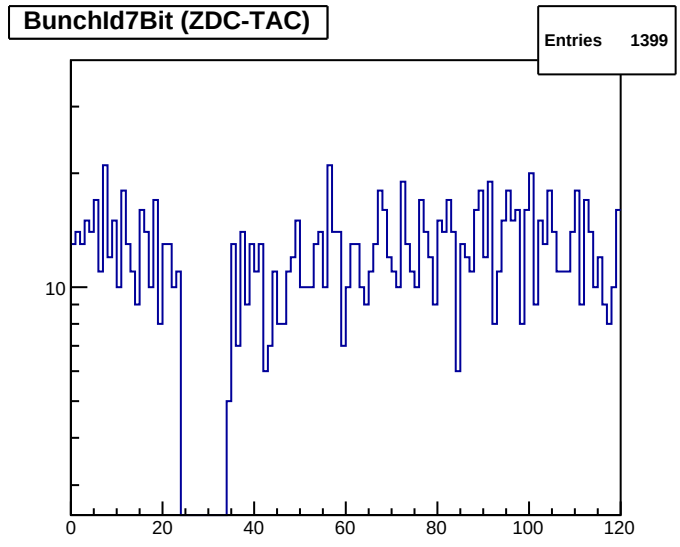
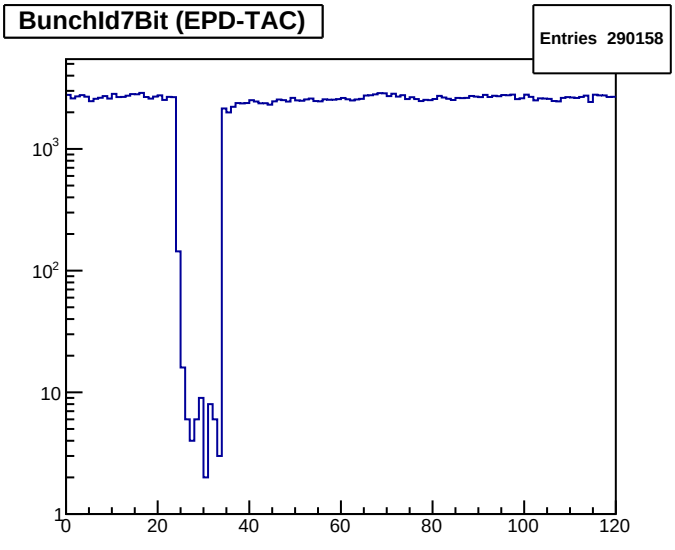
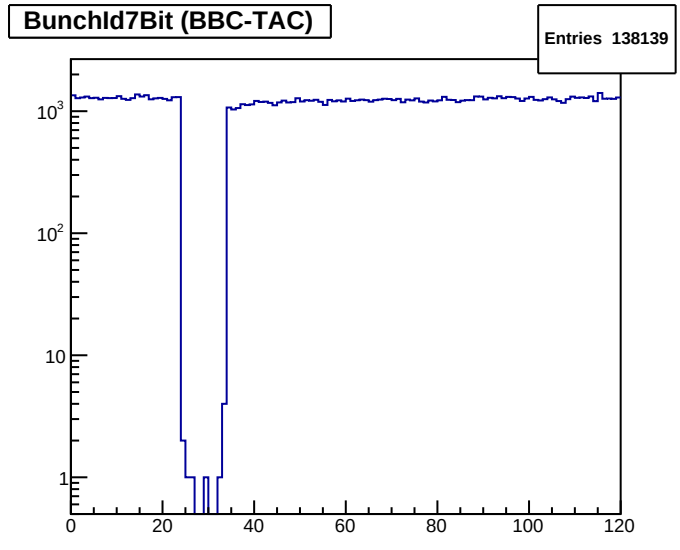
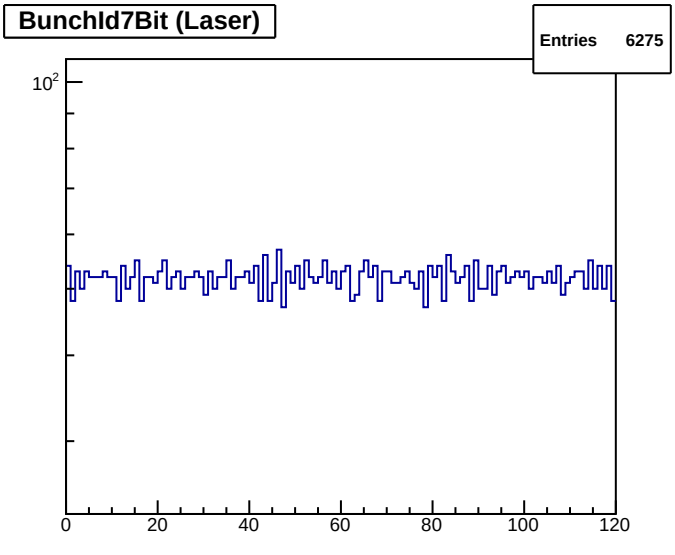
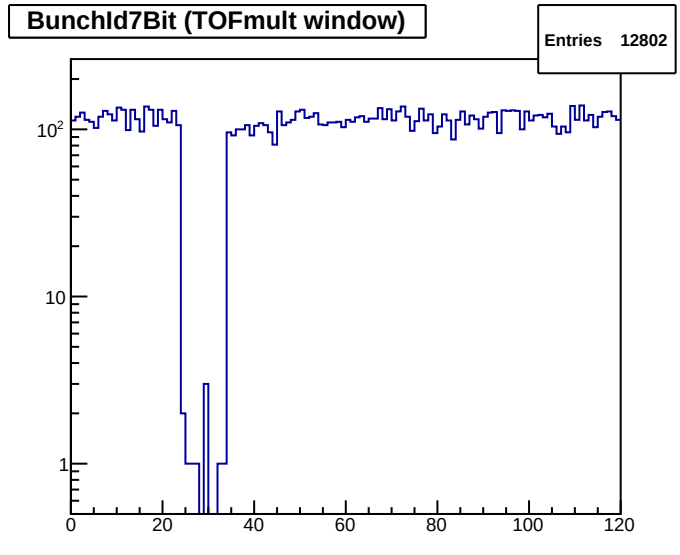

BunchId7Bit (VPD-TAC)
Entries 192185
10^3
10^2
10
1
0
20
40
60
80
100
120

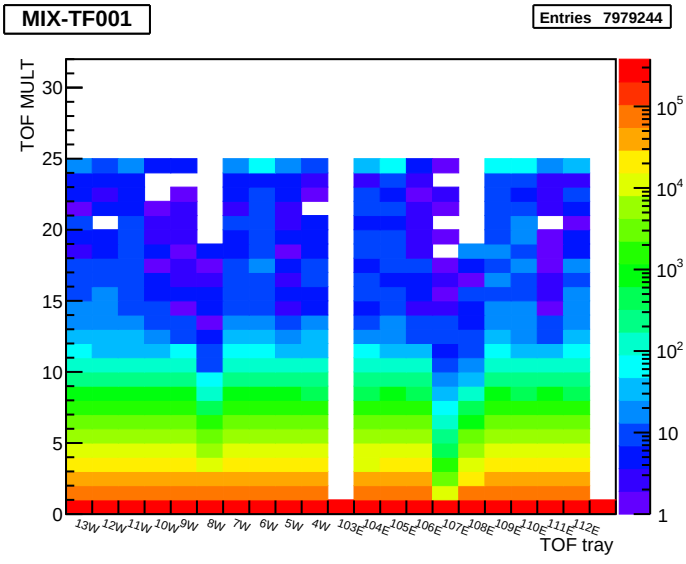

BunchId7Bit (ZDC-TAC)
Entries 1399
10
0
20
40
60
80
100
120

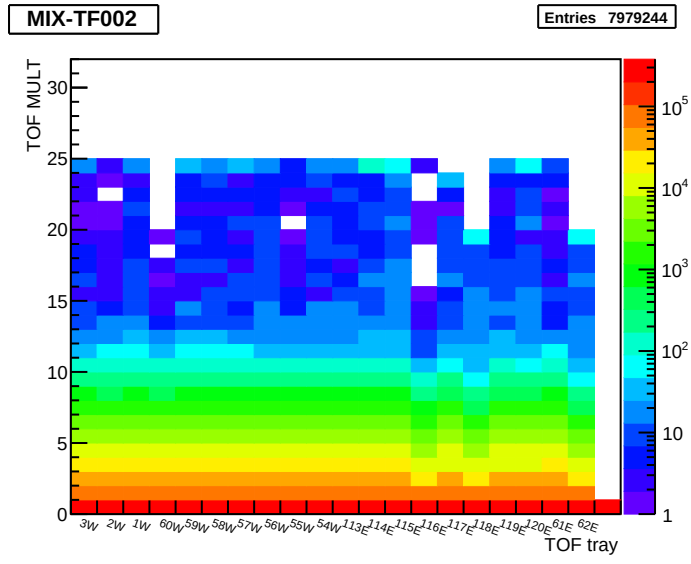

BunchId7Bit (EPD-TAC)
Entries 290158
10^3
10^2
10
1
0
20
40
60
80
100
120

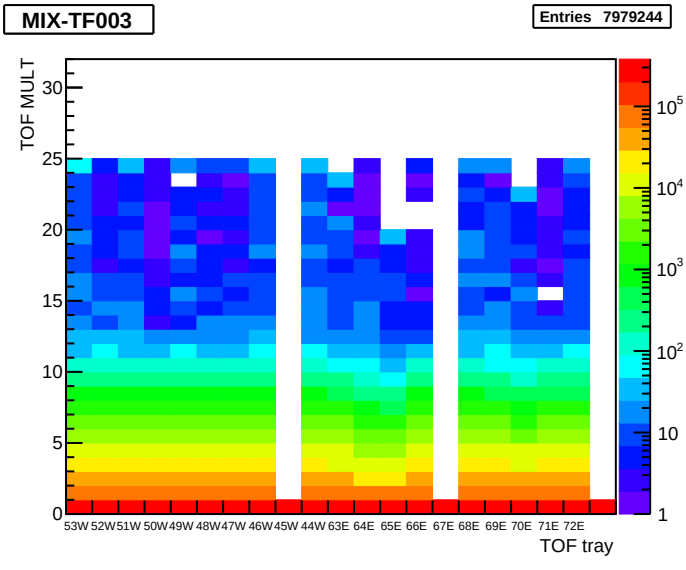

BunchId7Bit (BBC-TAC)
Entries 138139
10^3
10^2
10
1
0
20
40
60
80
100
120

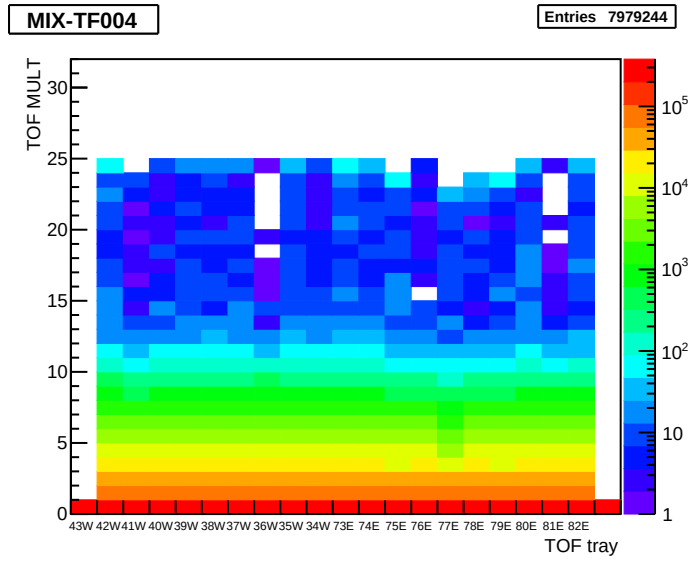

BunchId7Bit (Laser)
Entries 6275
10^2
0
20
40
60
80
100
120

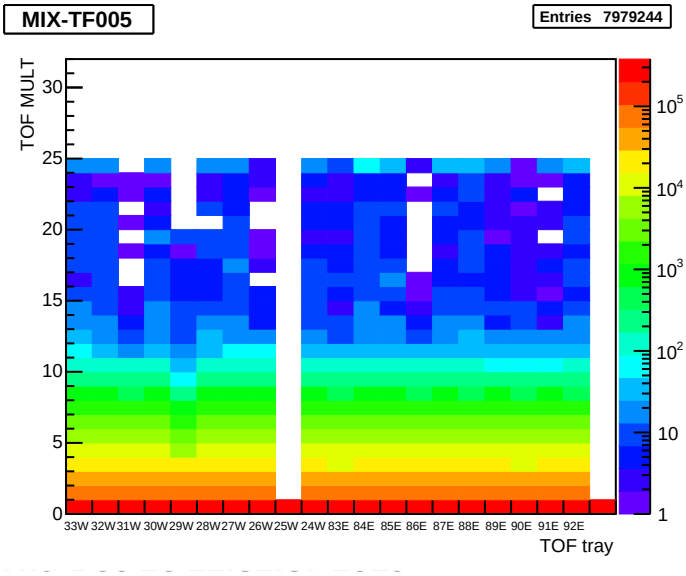

BunchId7Bit (TOFmult window)
Entries 12802
10^2
10
1
0
20
40
60
80
100
120

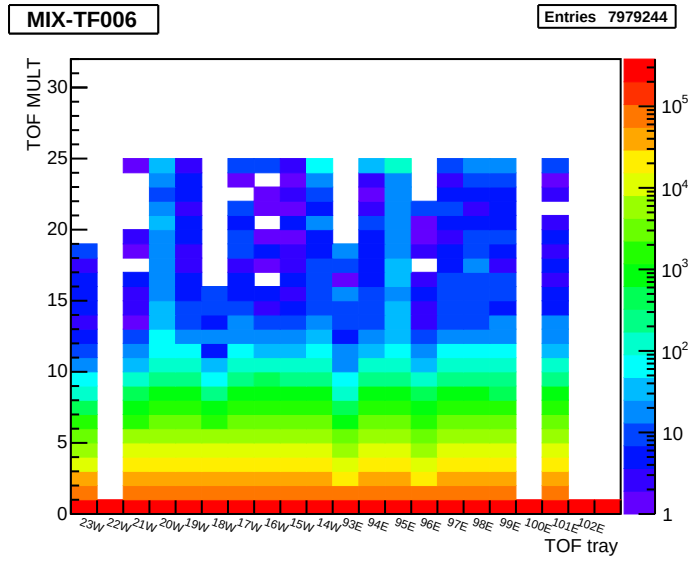

MIX-TF001
Entries 7979244
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

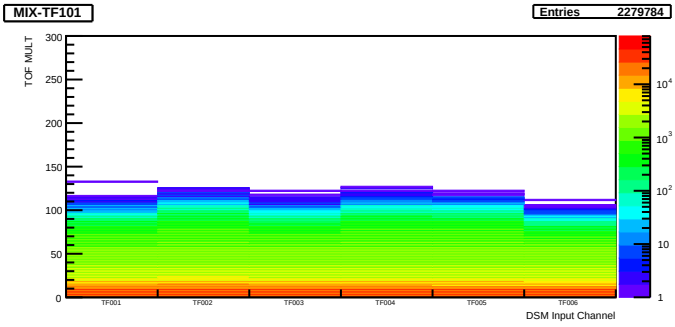

MIX-TF002
Entries 7979244
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

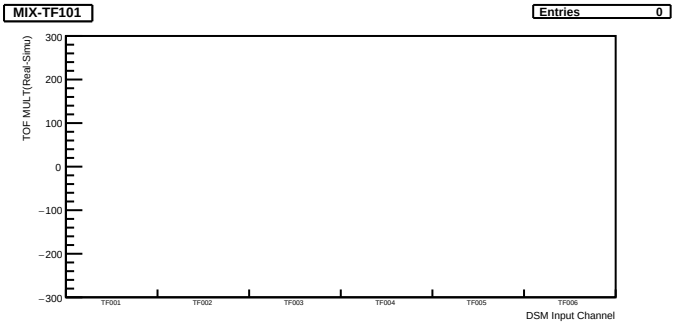

MIX-TF003
Entries 7979244
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

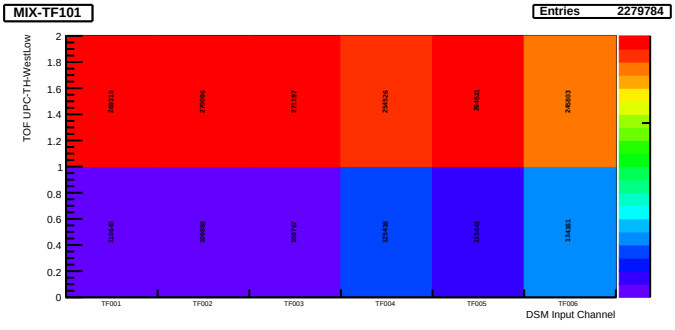

MIX-TF004
Entries 7979244
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

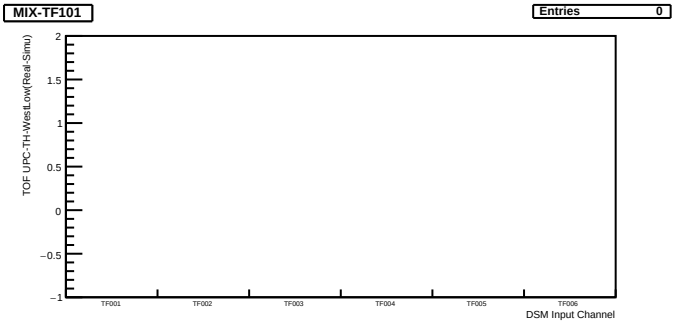

MIX-TF005
Entries 7979244
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

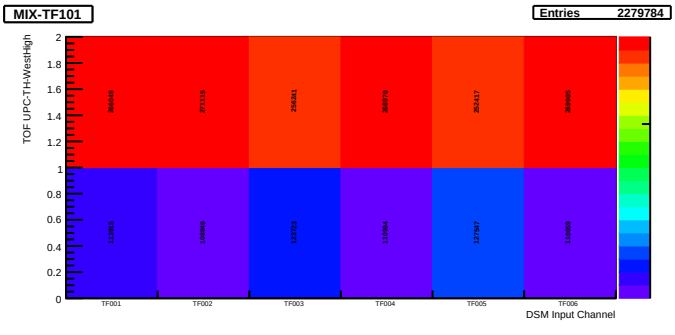

MIX-TF006
Entries 7979244
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

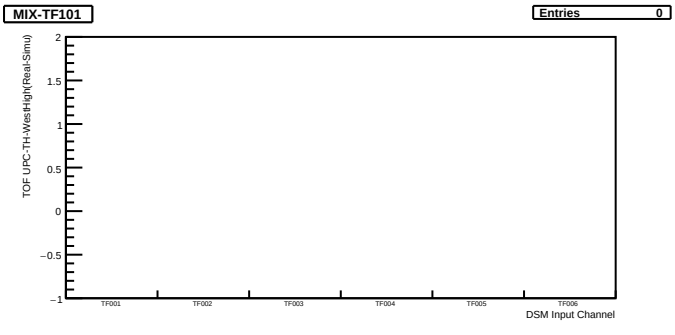

MIX-TF101
Entries 2279784
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

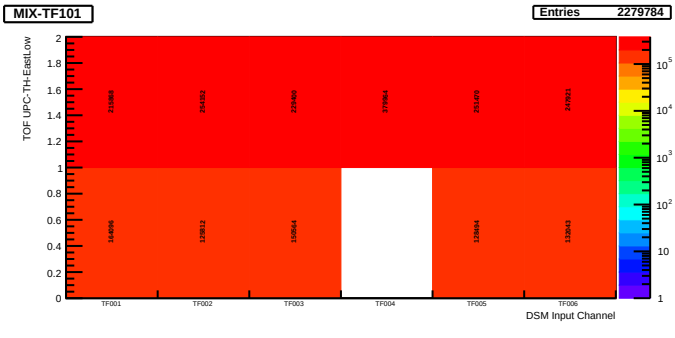

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

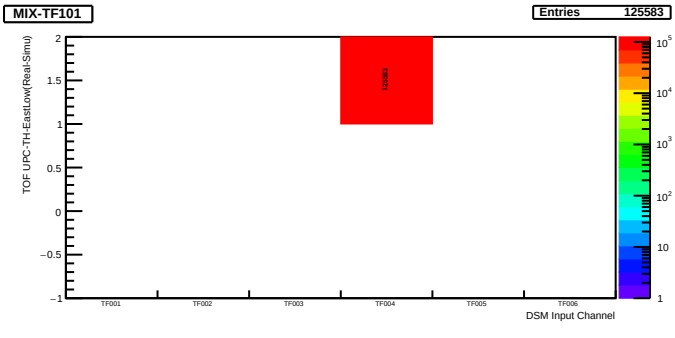

MIX-TF101
Entries 2279784
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

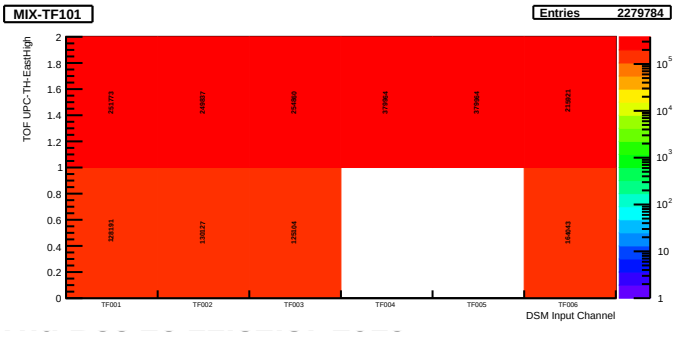

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

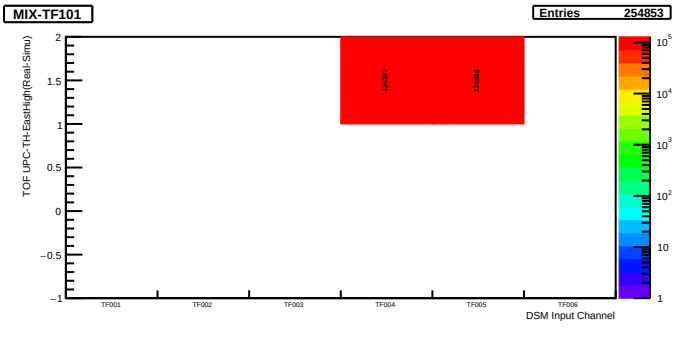

MIX-TF101
Entries 2279784
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

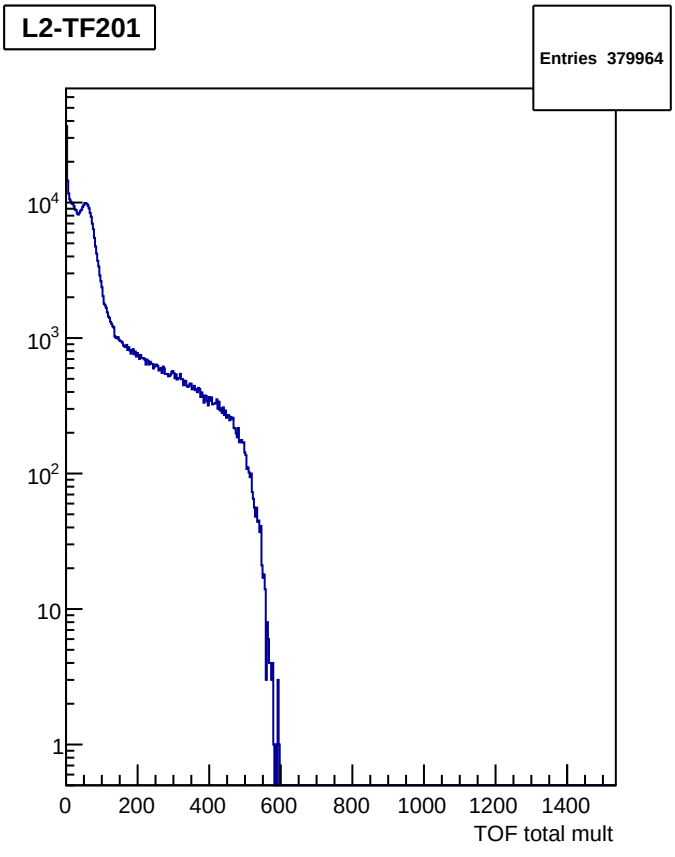

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

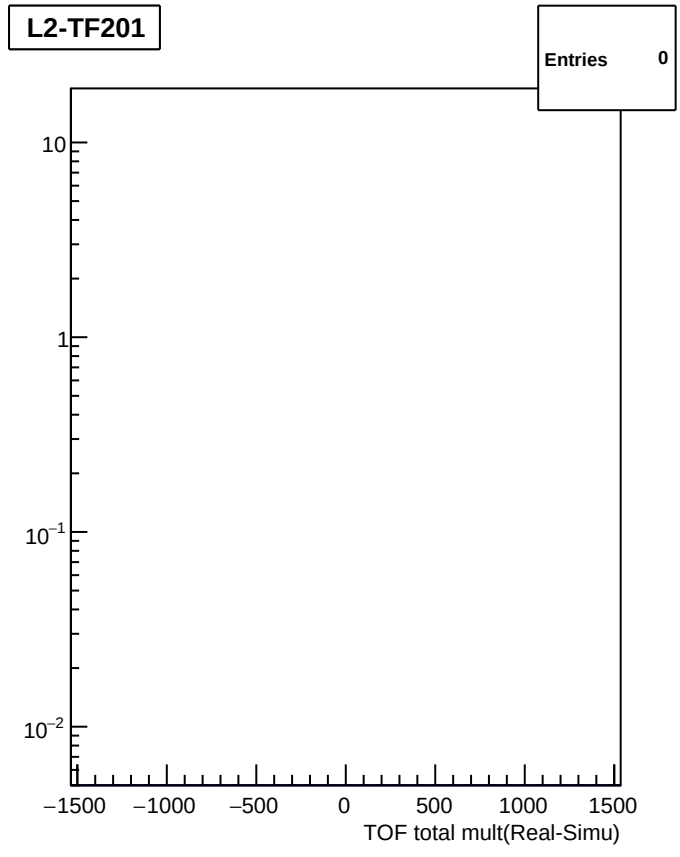

MIX-TF101
Entries 2279784
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

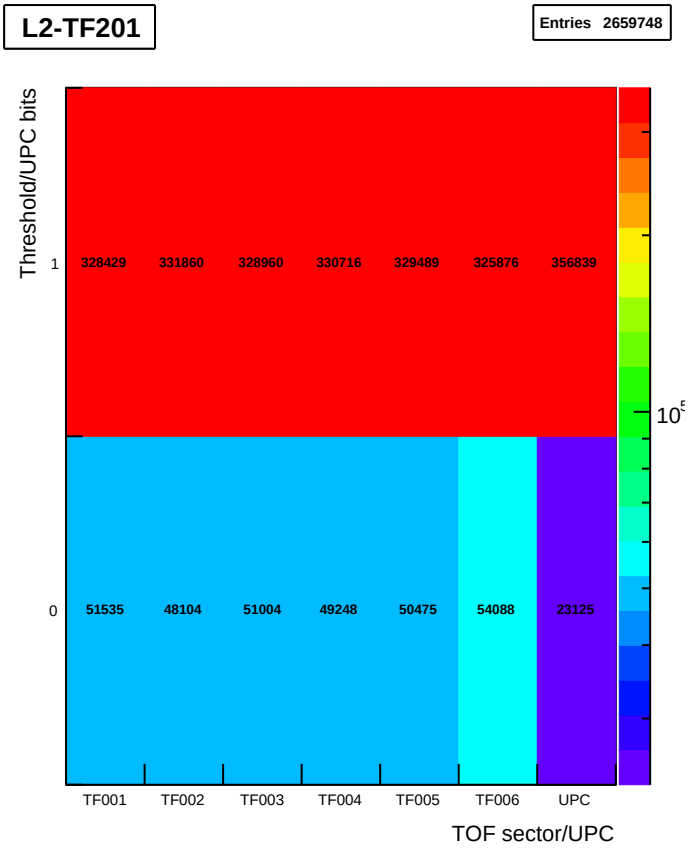

MIX-TF101
Entries 125583
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

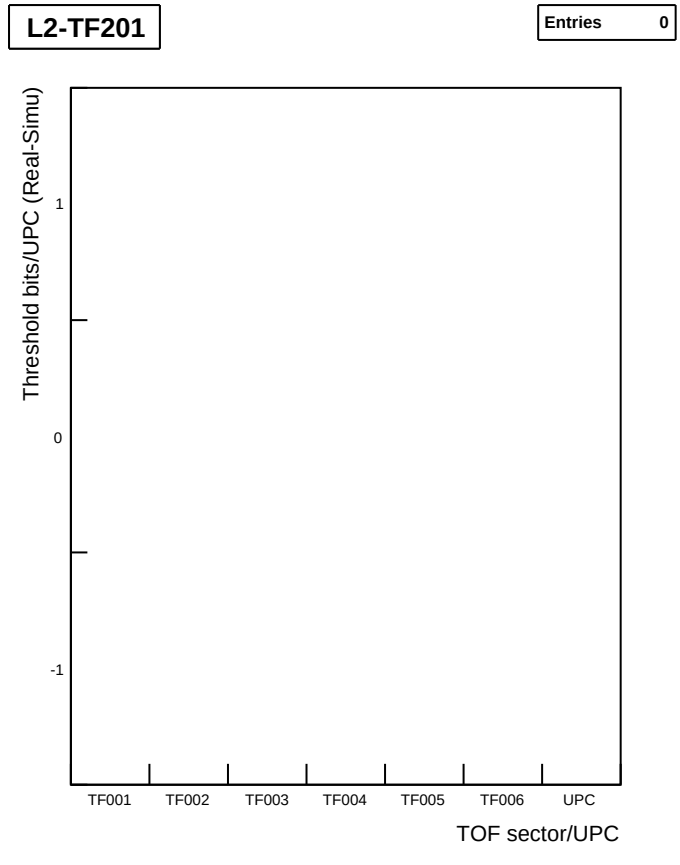

MIX-TF101
Entries 2279784
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

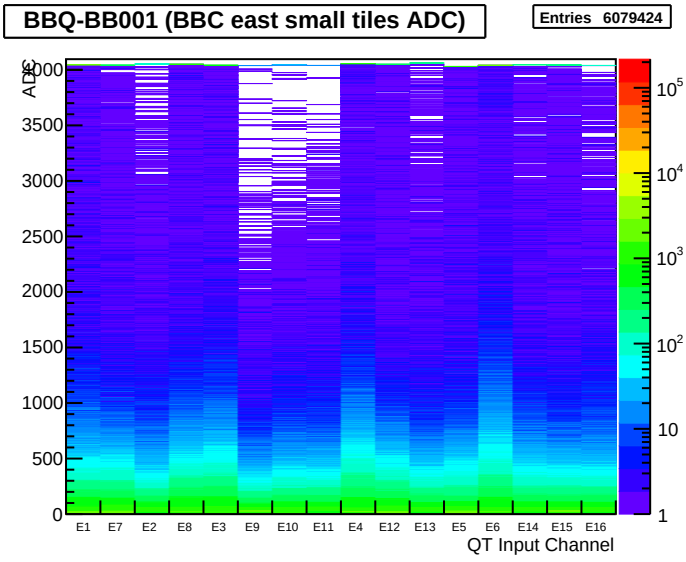

MIX-TF101
Entries 254853
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

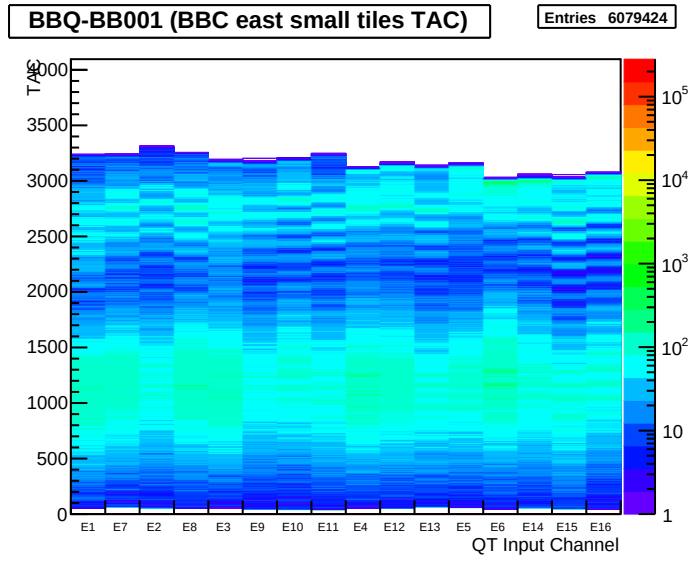

L2-TF201
Entries 379964
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

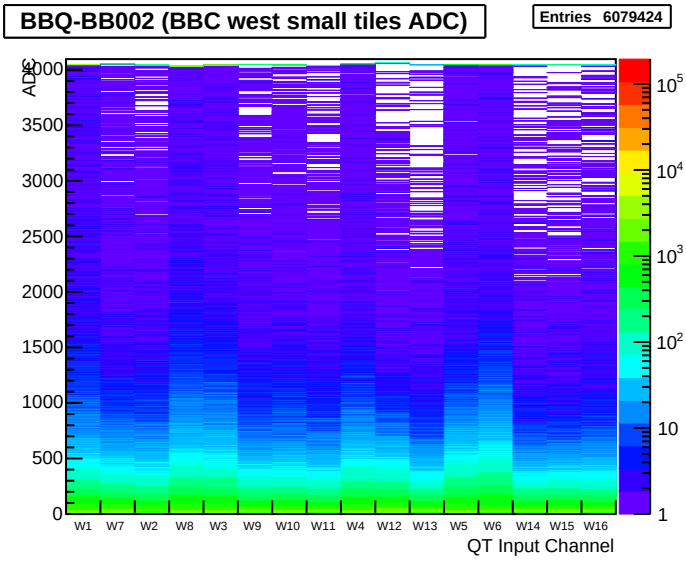

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

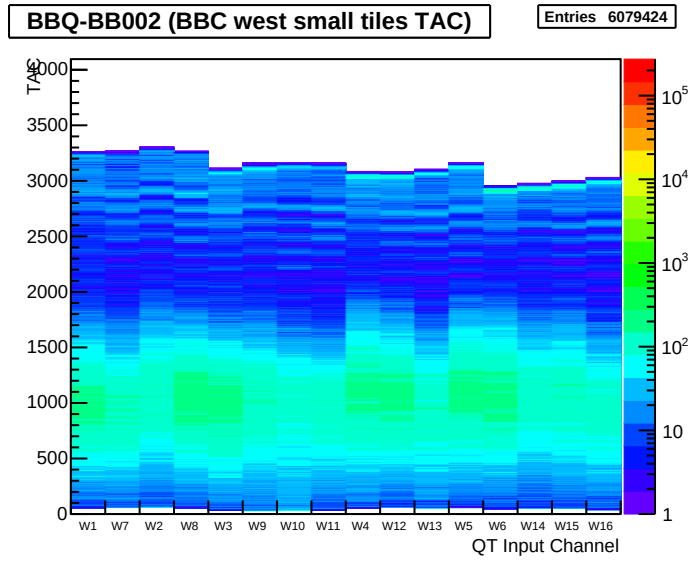

L2-TF201
Entries 2659748
Threshold/UPC bits
1
0
328429
331860
328960
330716
329489
325876
356839
51535
48104
51004
49248
50475
54088
23125
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

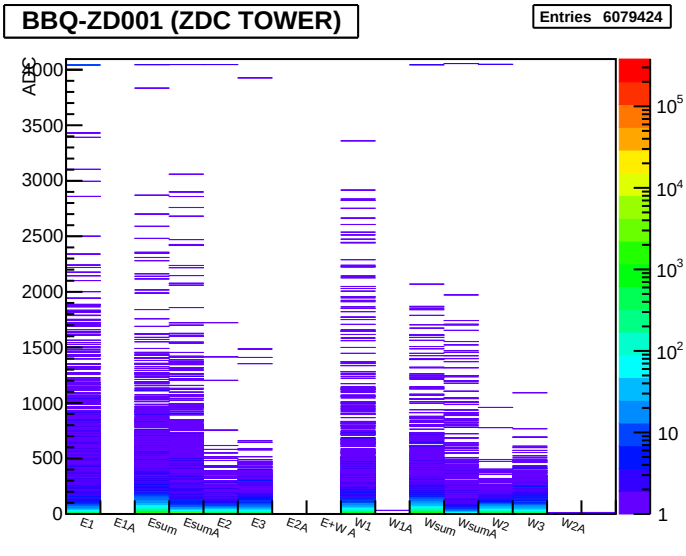

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

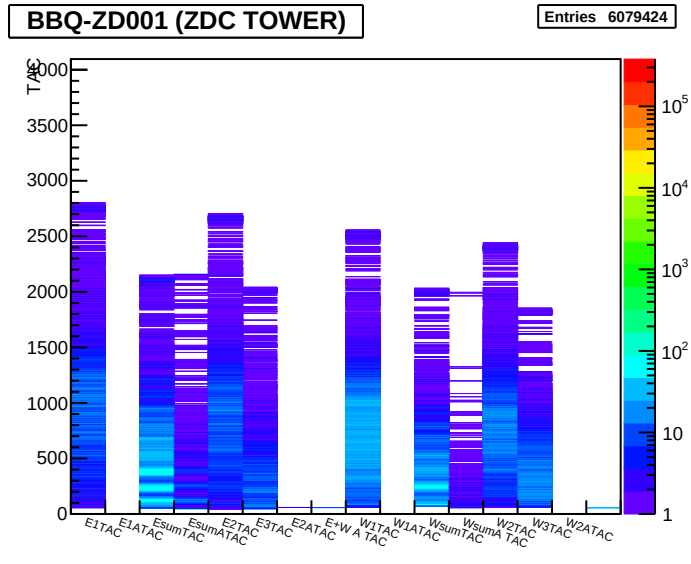

BBQ-BB001 (BBC east small tiles ADC)
Entries 6079424
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

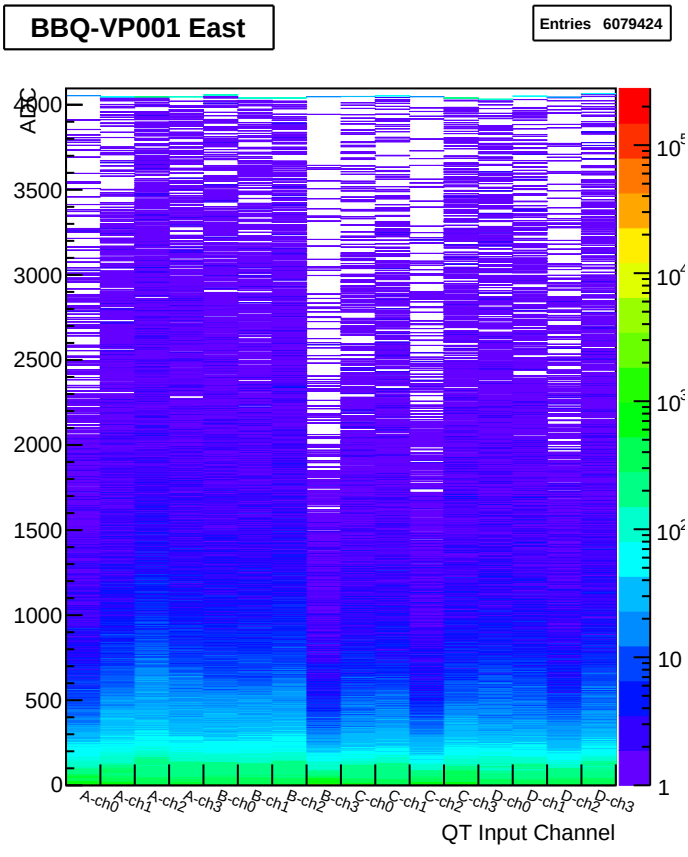

BBQ-BB001 (BBC east small tiles TAC)
Entries 6079424
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

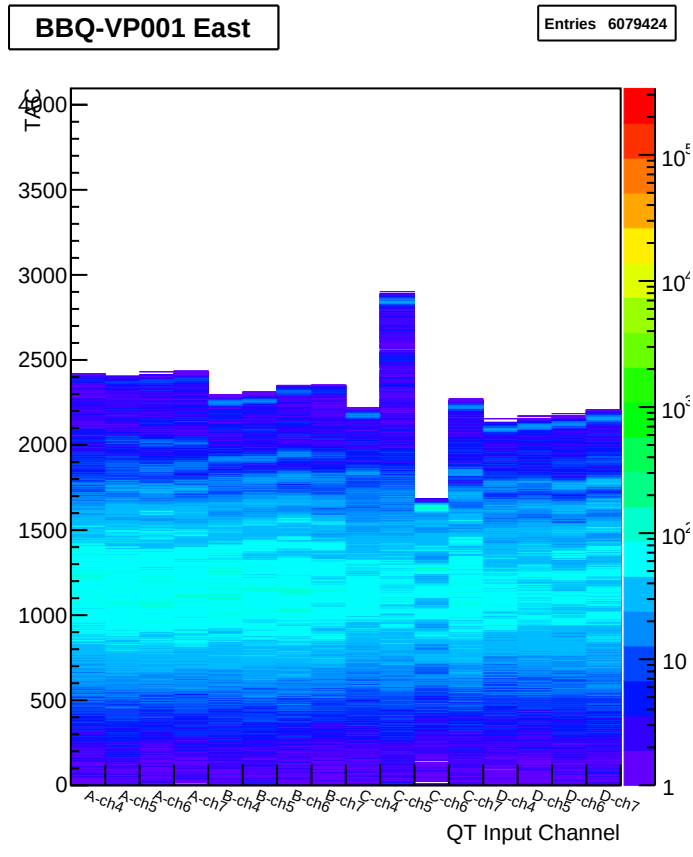

BBQ-BB002 (BBC west small tiles ADC)
Entries 6079424
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

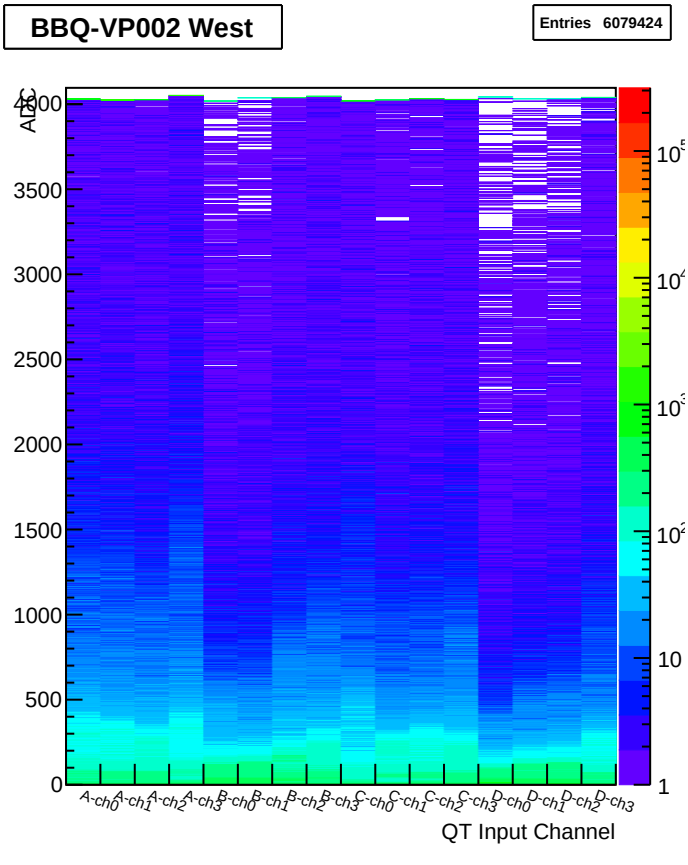

BBQ-BB002 (BBC west small tiles TAC)
Entries 6079424
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

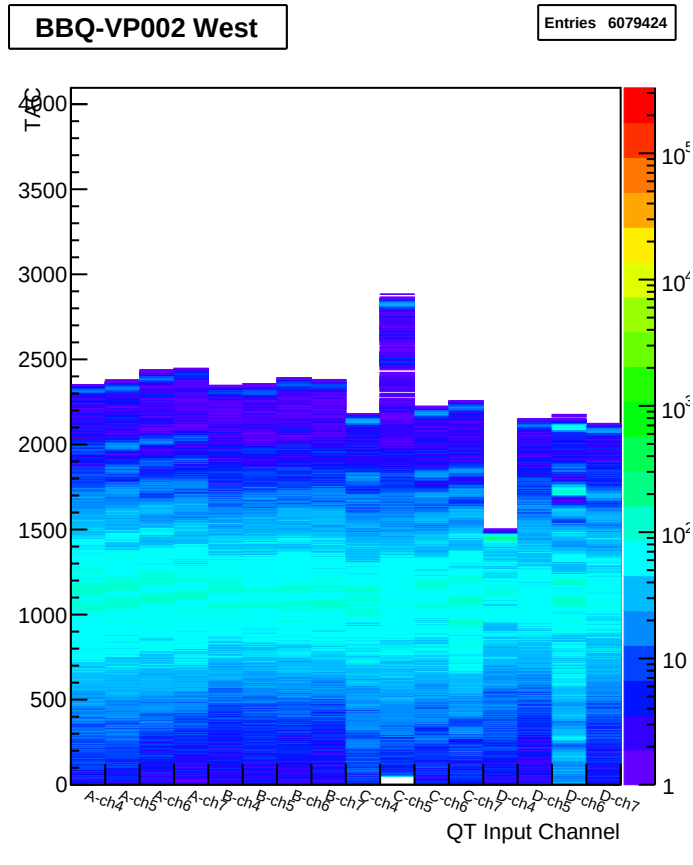

BBQ-ZD001 (ZDC TOWER)
Entries 6079424
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

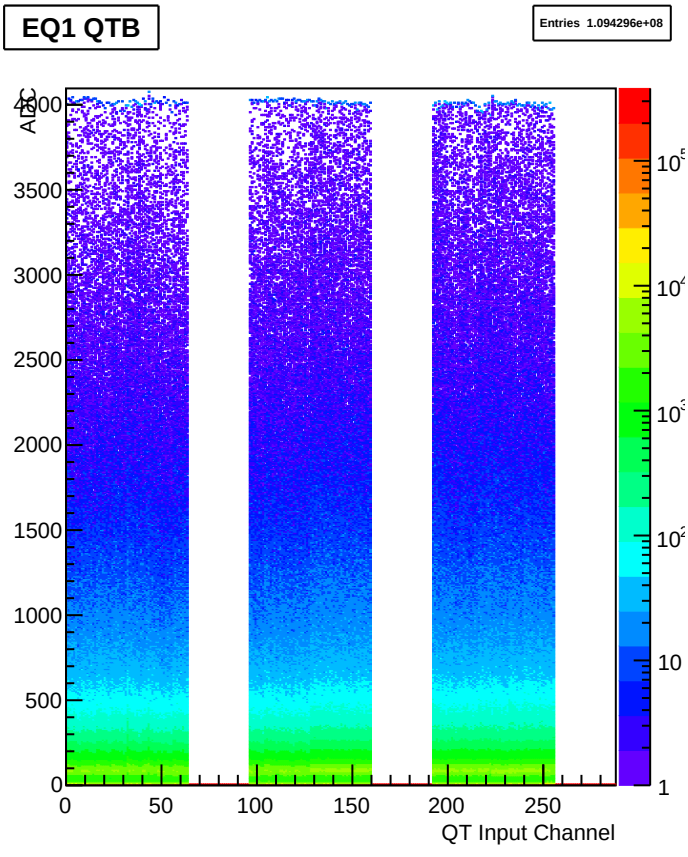

BBQ-ZD001 (ZDC TOWER)
Entries 6079424
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

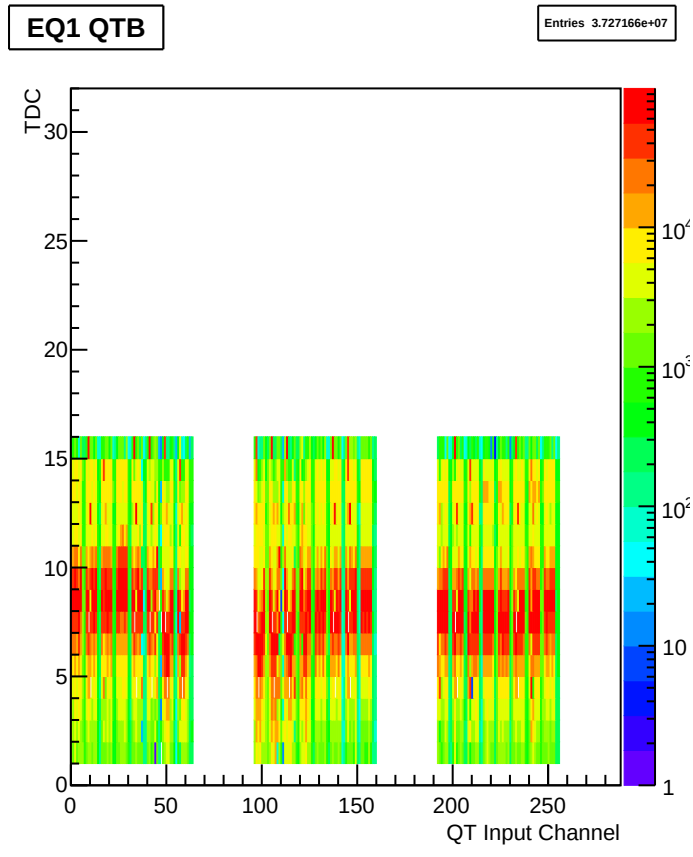

BBQ-VP001 East
Entries 6079424
ADC
QT Input Channel

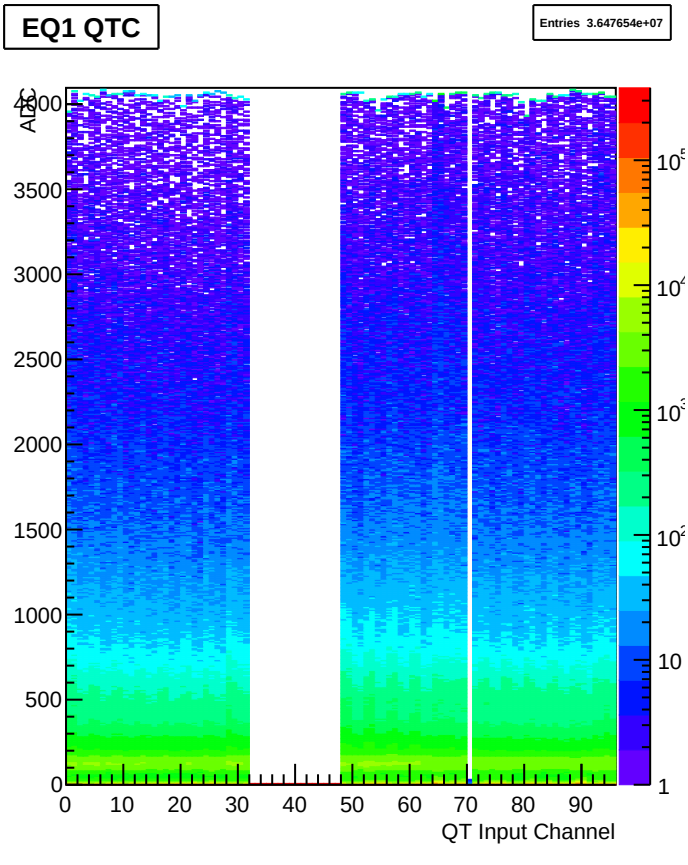

BBQ-VP001 East
Entries 6079424
TADC
QT Input Channel

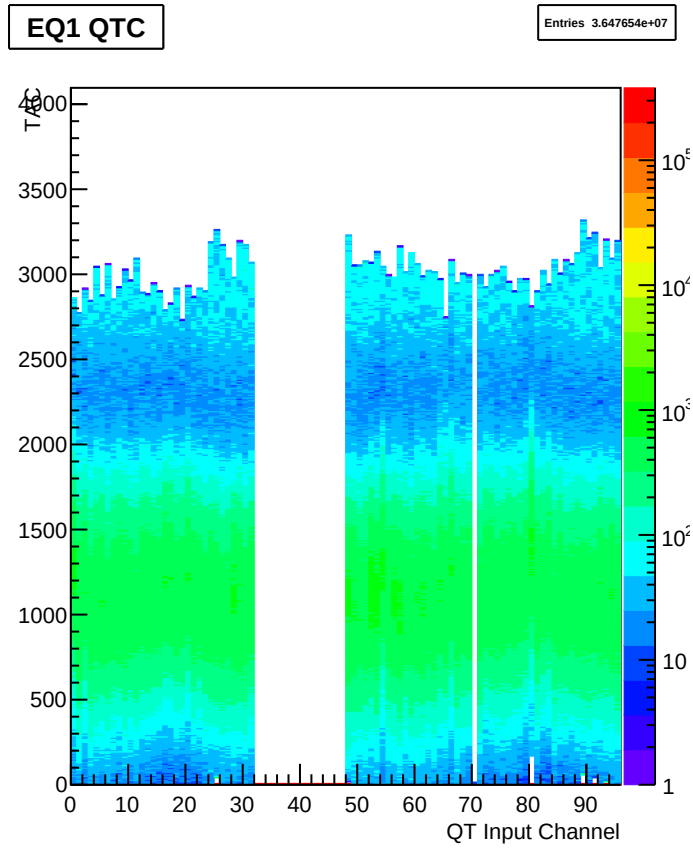

BBQ-VP002 West
Entries 6079424
ADC
QT Input Channel

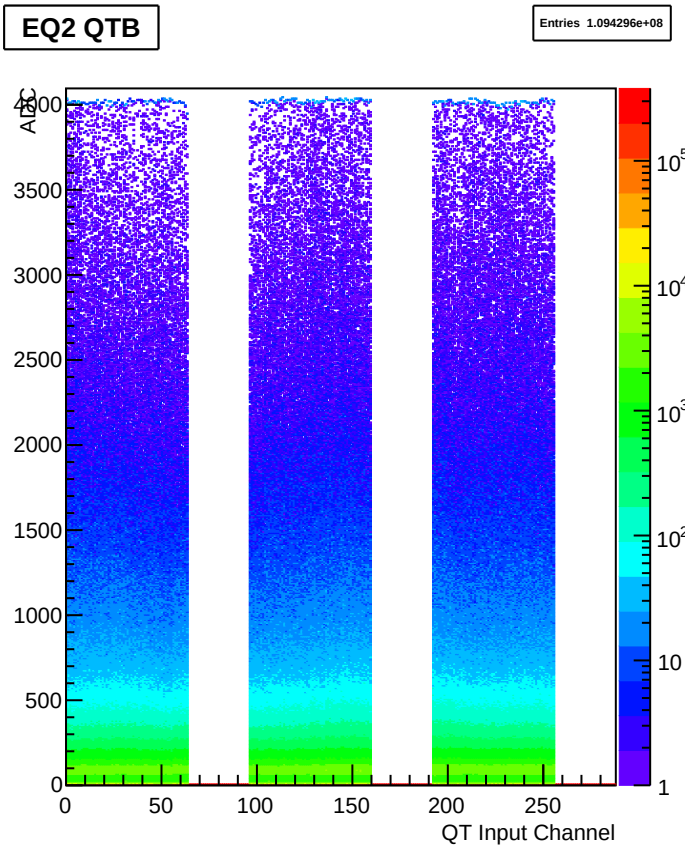

BBQ-VP002 West
Entries 6079424
TADC
QT Input Channel

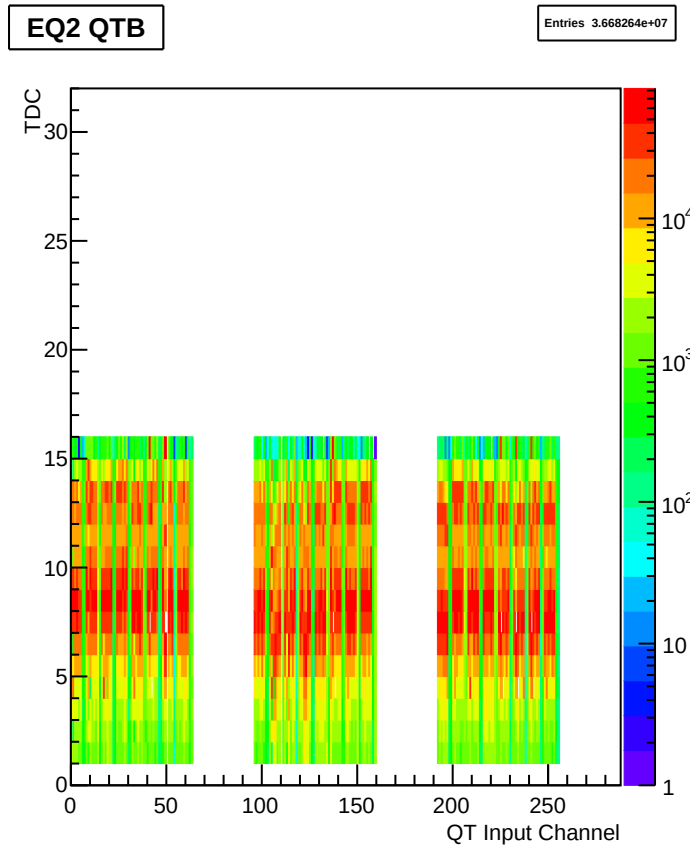

EQ1 QTB
Entries 1.094296e+08
ADC
QT Input Channel

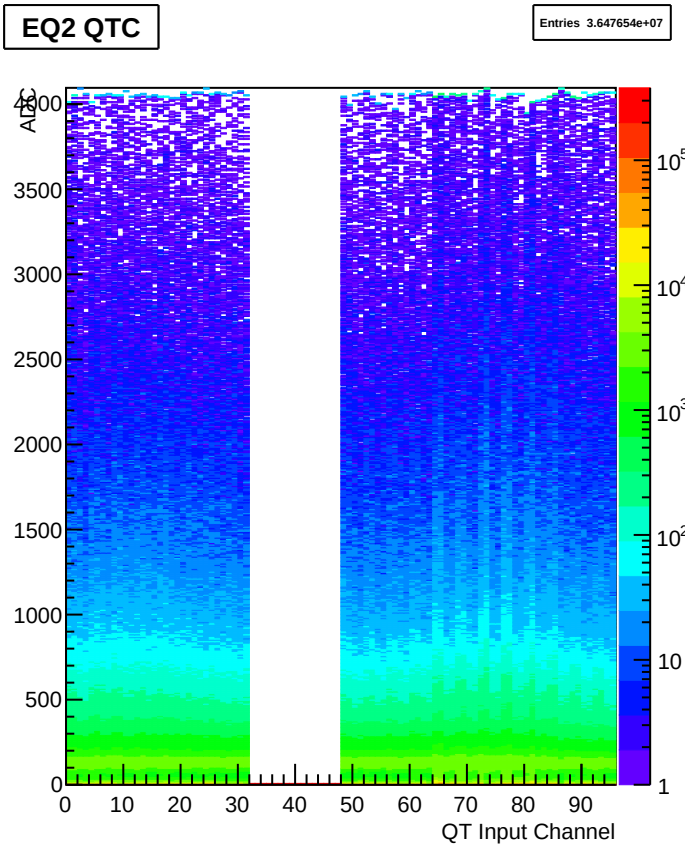

EQ1 QTB
Entries 3.727166e+07
TDC
QT Input Channel

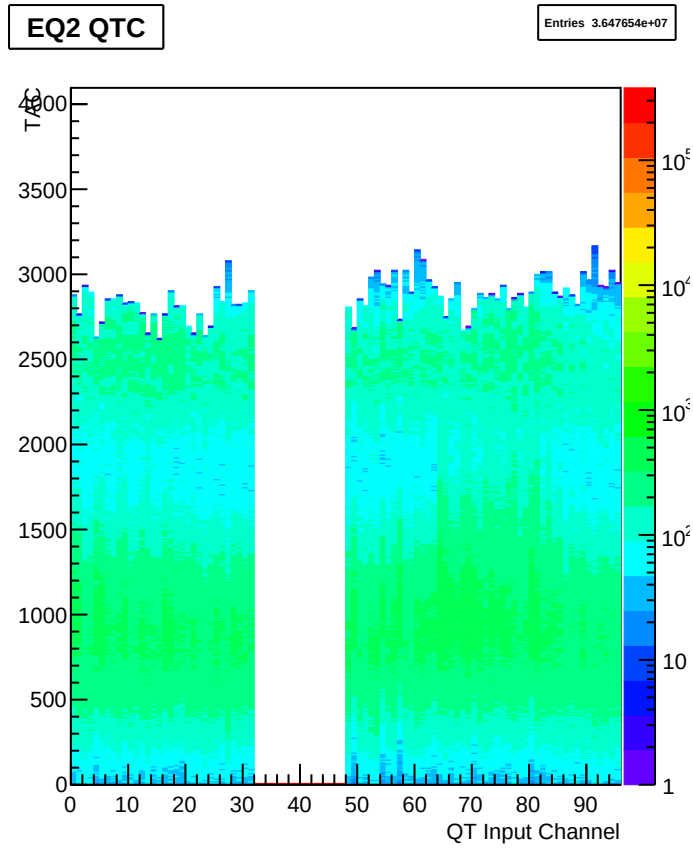

EQ1 QTC
Entries 3.647654e+07
ADC
QT Input Channel

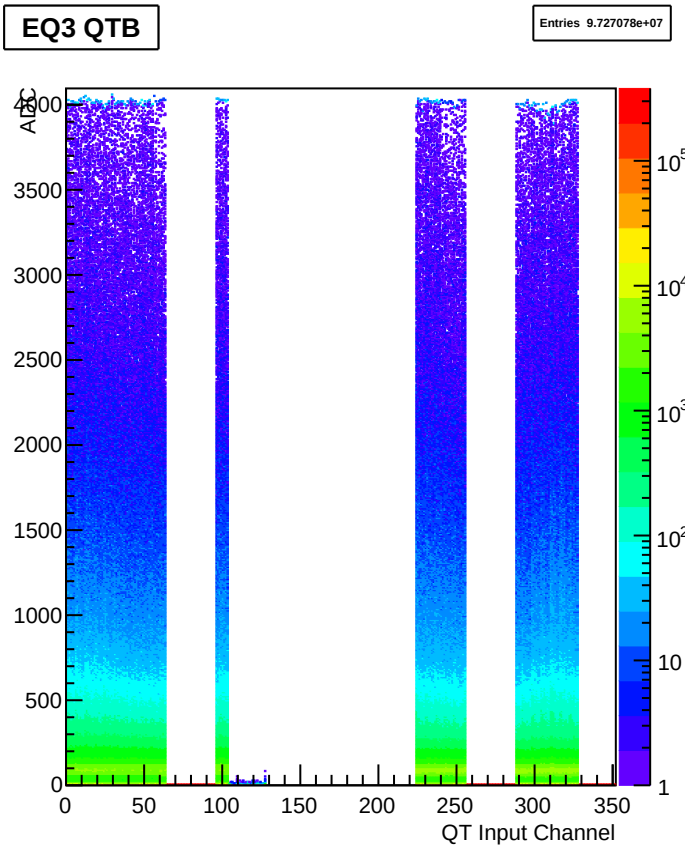

EQ1 QTC
Entries 3.647654e+07
TADC
QT Input Channel

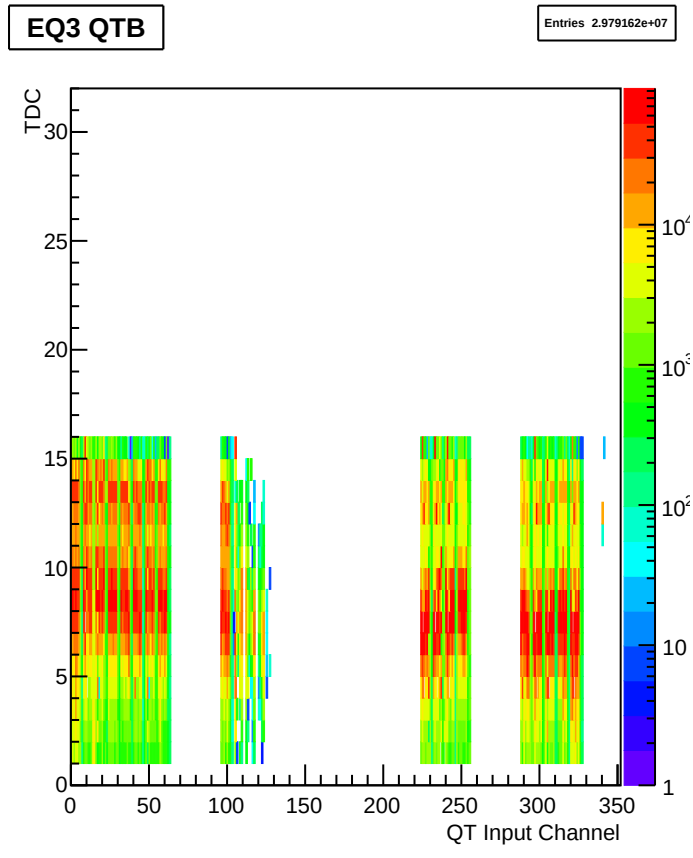

EQ2 QTB
Entries 1.094296e+08
ADC
QT Input Channel

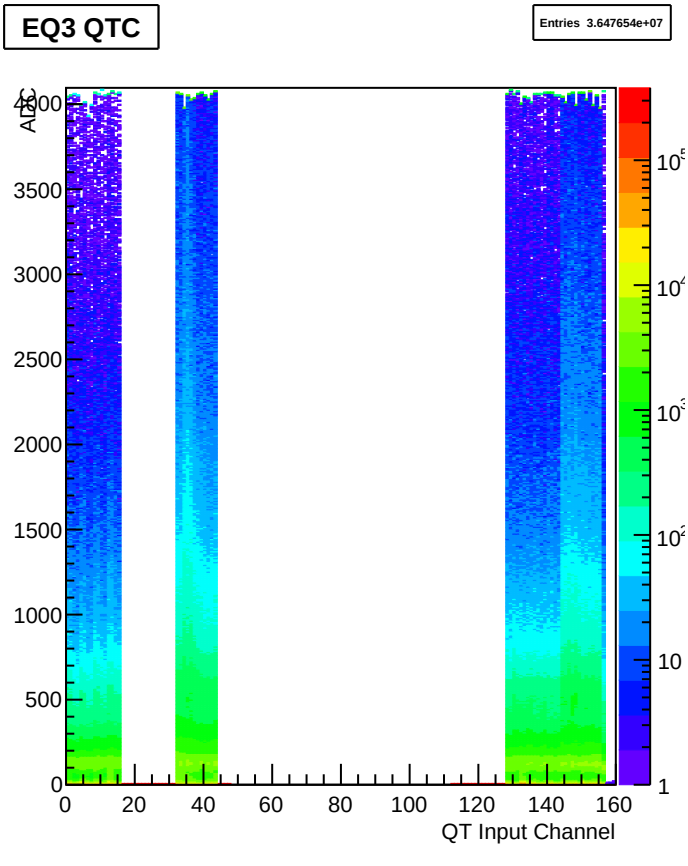

EQ2 QTB
Entries 3.668264e+07
TDC
QT Input Channel


EQ2 QTC
Entries 3.647654e+07
ADC
QT Input Channel


EQ2 QTC
Entries 3.647654e+07
TADC
QT Input Channel


EQ3 QTB
Entries 9.727078e+07
ADC
QT Input Channel


EQ3 QTB
Entries 2.979162e+07
TDC
QT Input Channel


EQ3 QTC
Entries 3.647654e+07
ADC
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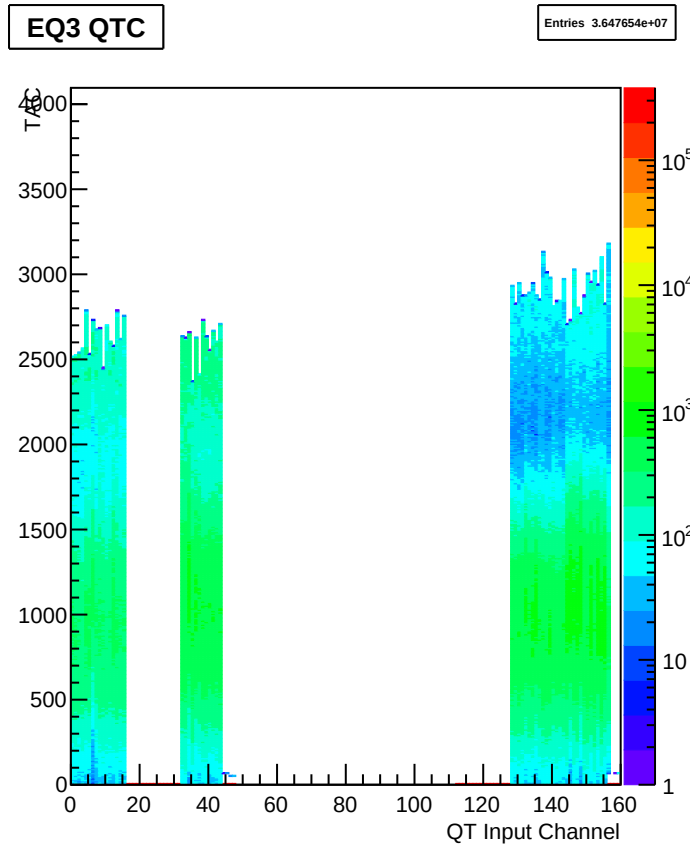
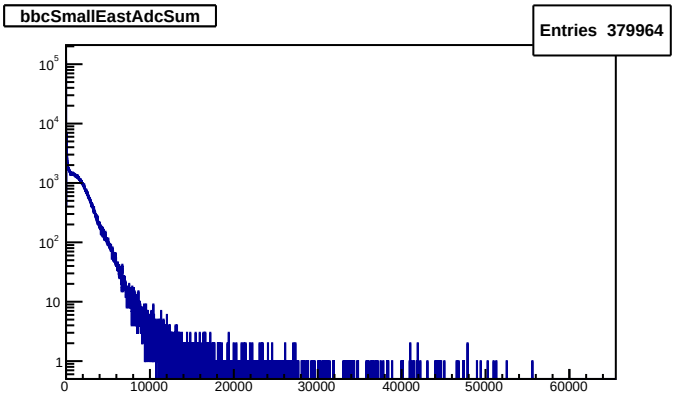
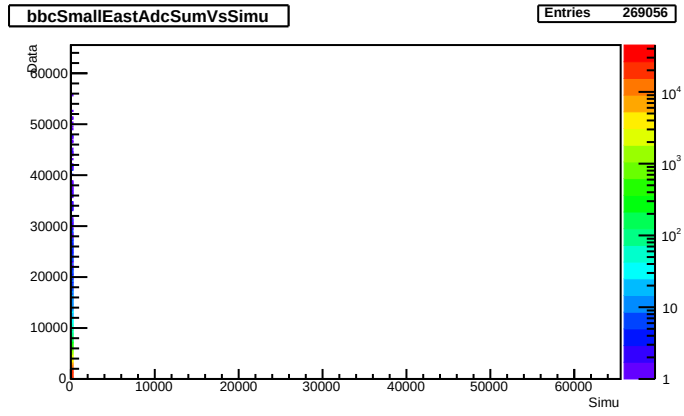
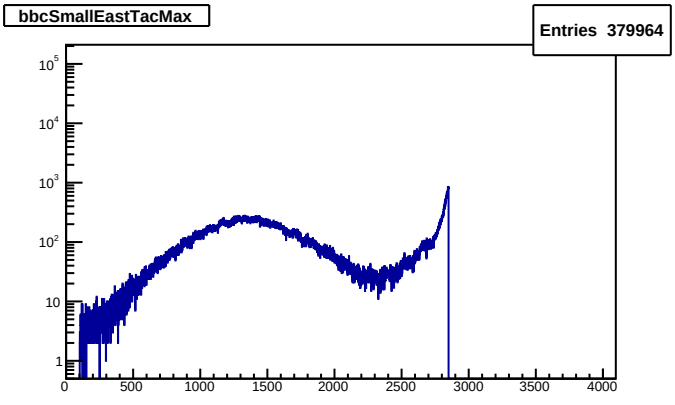
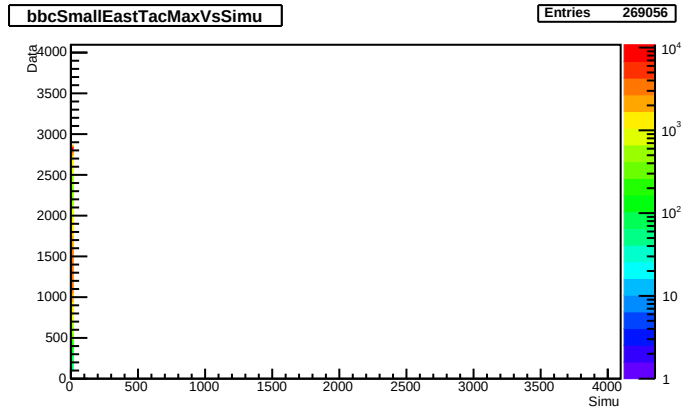

EQ3 QTC
Entries 3.647654e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 379964


bbcSmallEastAdcSumVsSimu
Entries 269056
Data
Simu


bbcSmallEastTacMax
Entries 379964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Entries 269056
Data
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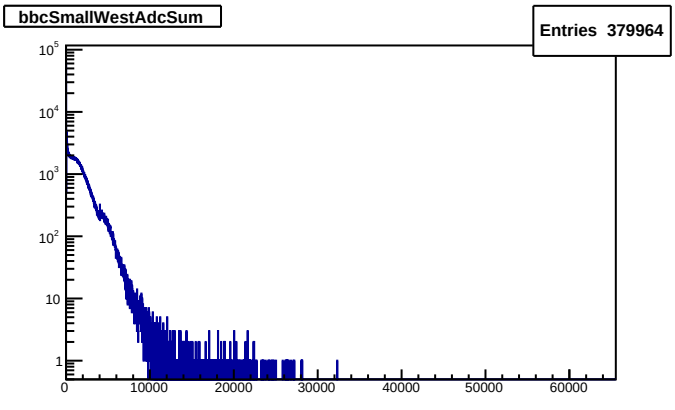
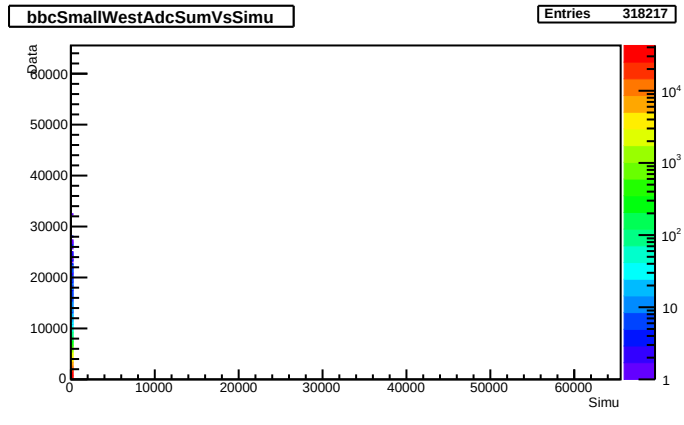

bbcSmallWestAdcSum
Entries 379964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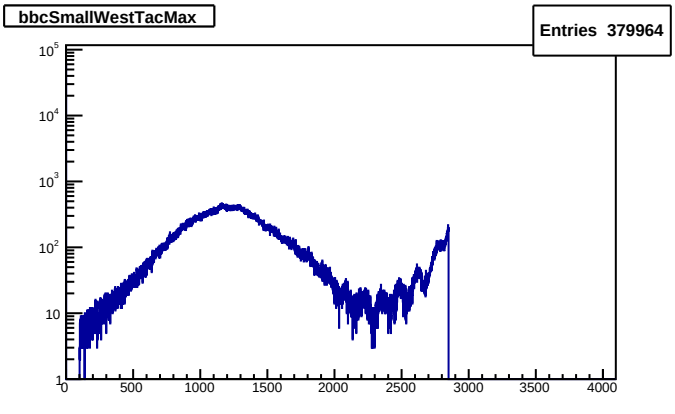
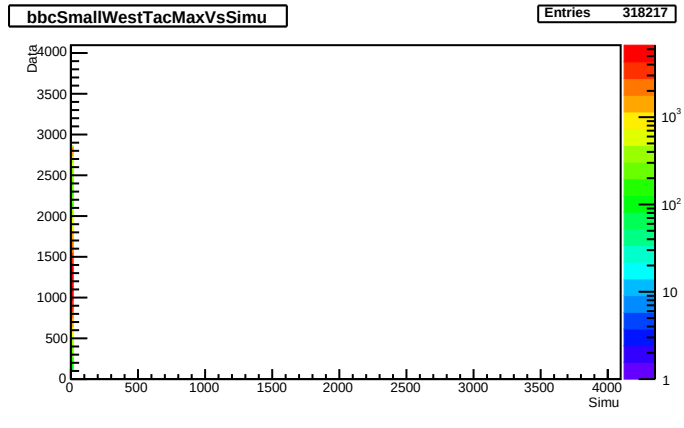
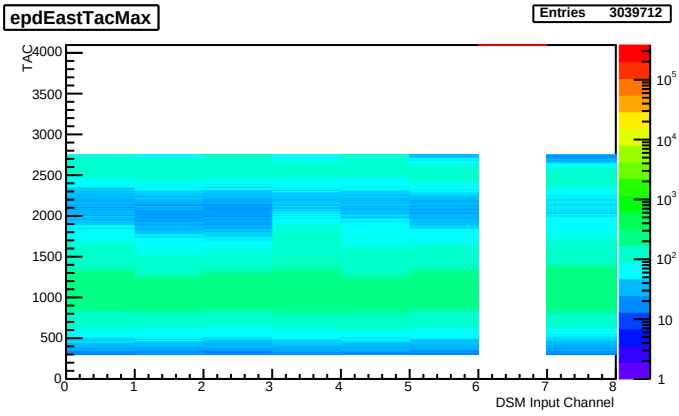
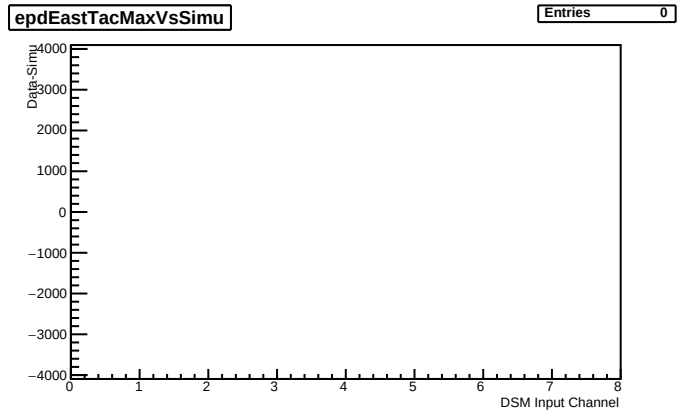
Entries 318217
Data
Simu


bbcSmallWestTacMax
Entries 379964


bbcSmallWestTacMaxVsSimu
Entries 318217
Data
Simu


epdEastTacMax
Entries 3039712
TAC
DSM Input Channel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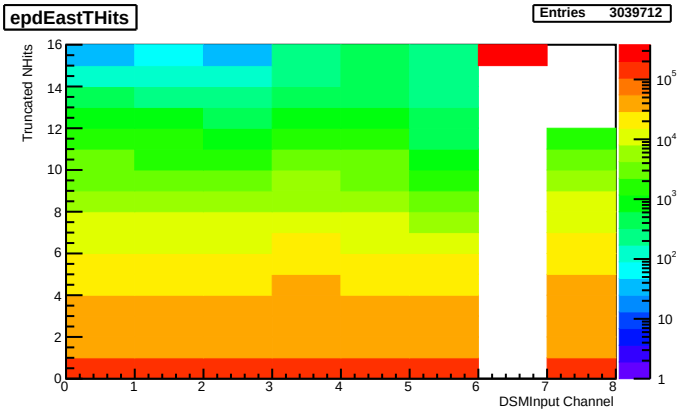
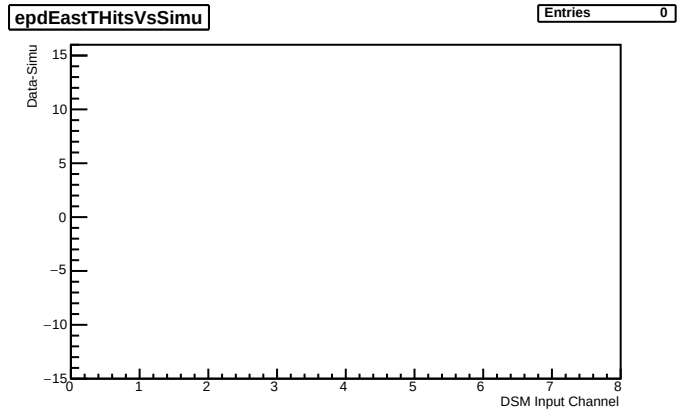
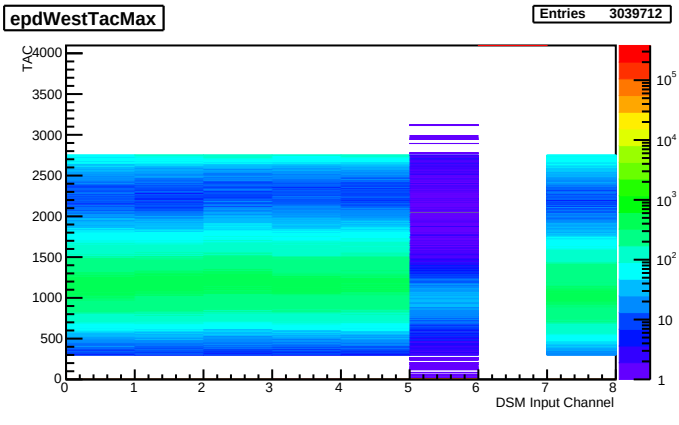
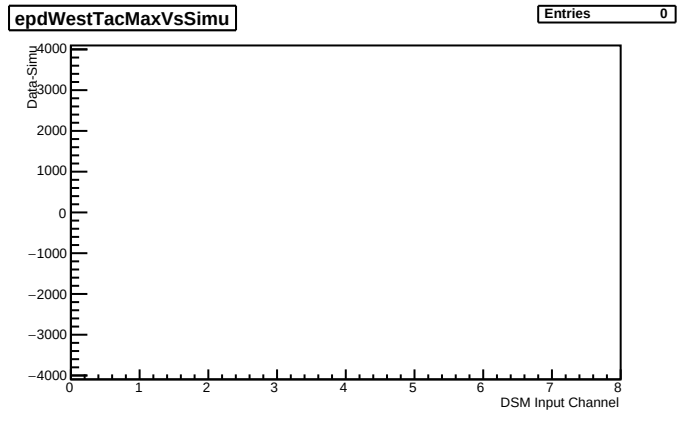
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3039712
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 3039712
TAC
DSM Input Channel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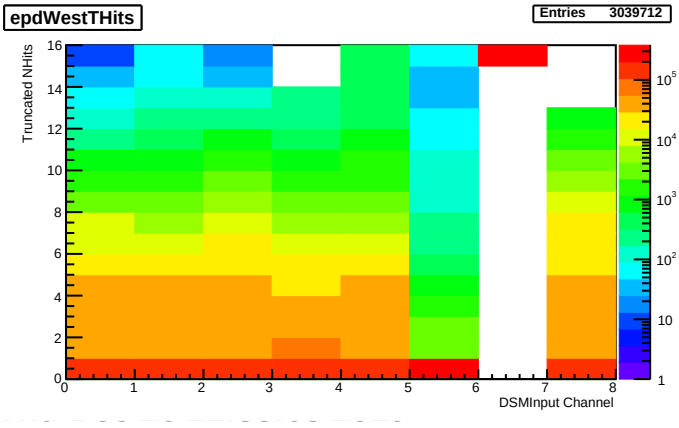
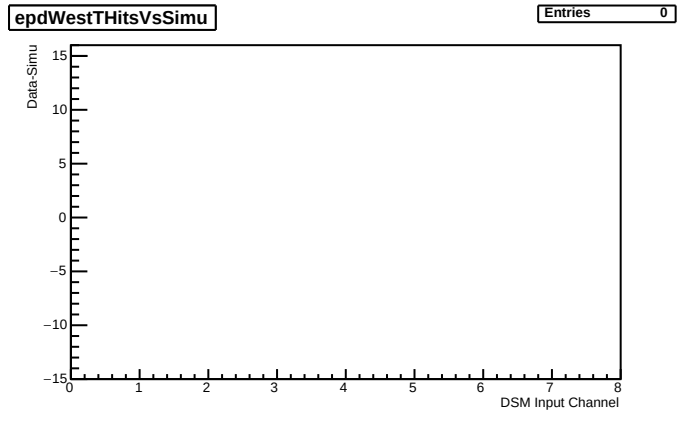
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 3039712
Truncated NHits
DSMInput Channel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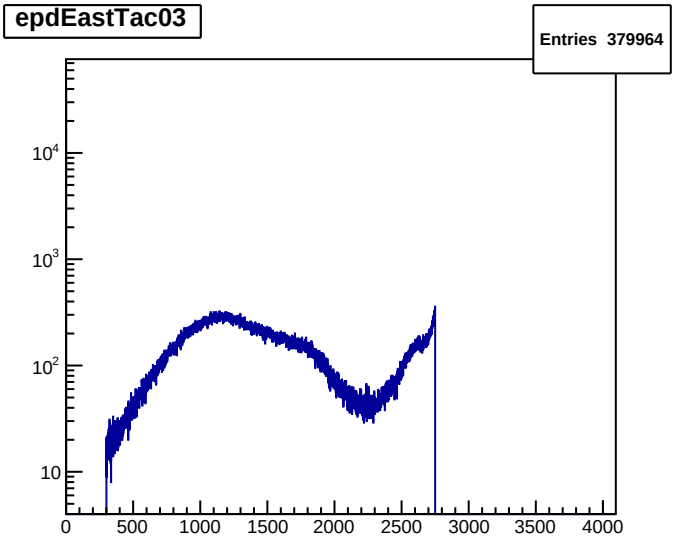
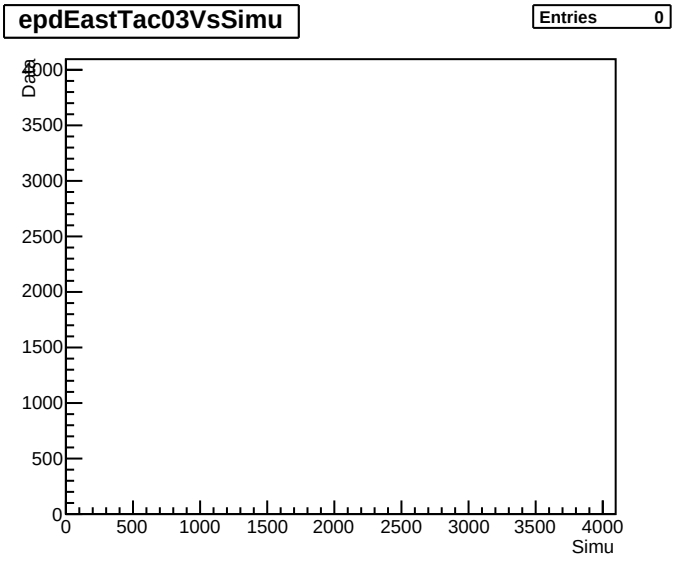
Data-Simu
DSM Input Channel


epdEastTac03
Entries 379964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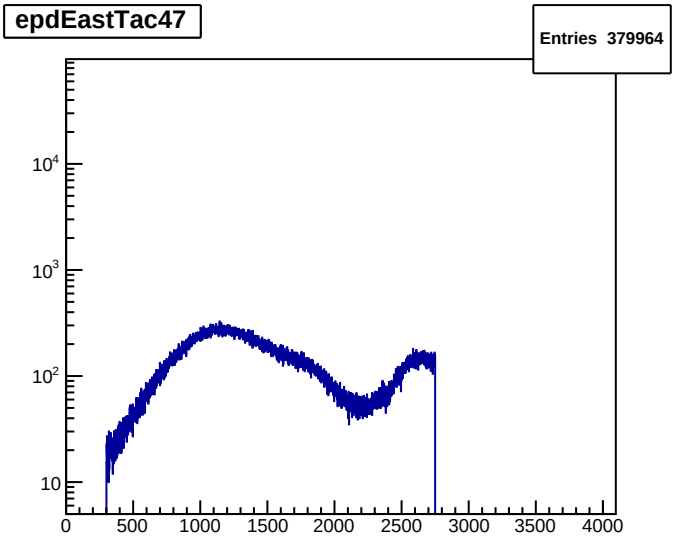
Entries 0
Data
Simu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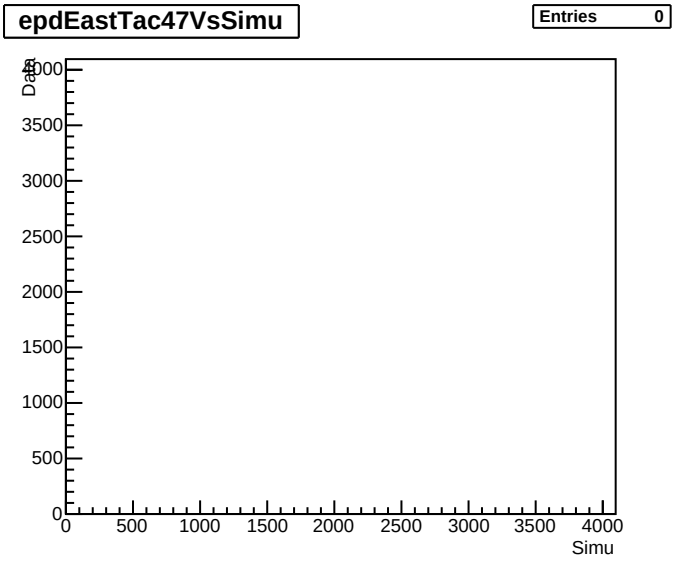
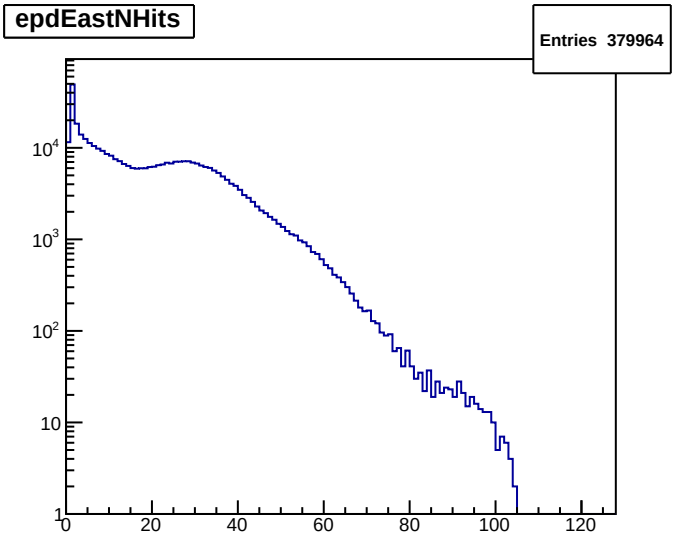
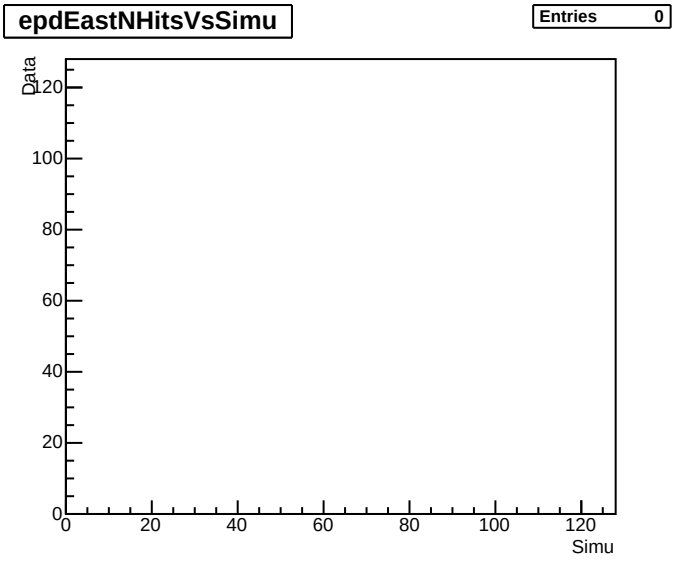
Entries 379964


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 379964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Data
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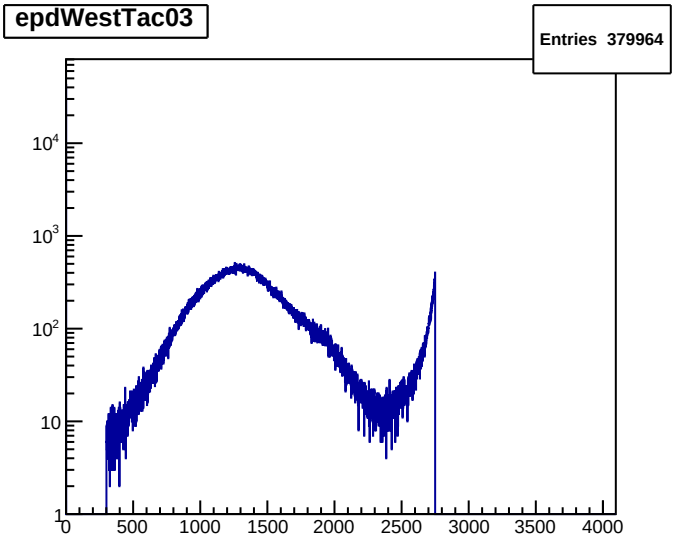
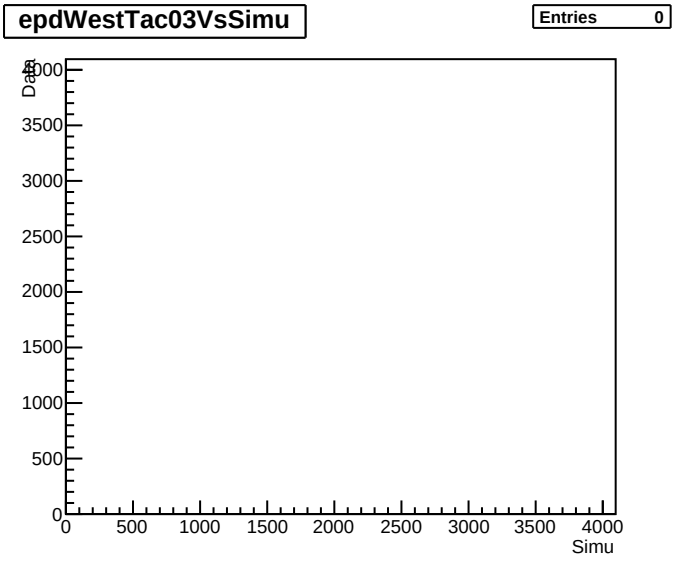
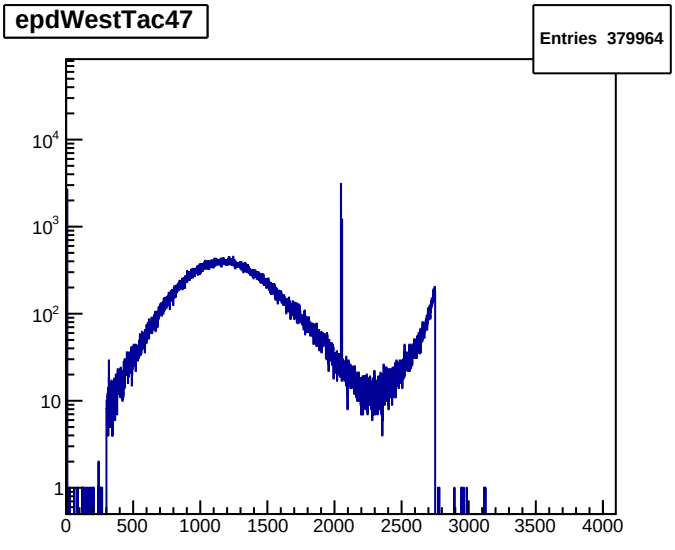

epdWestTac03
Entries 379964


epdWestTac03VsSimu
Entries 0
Data
Simu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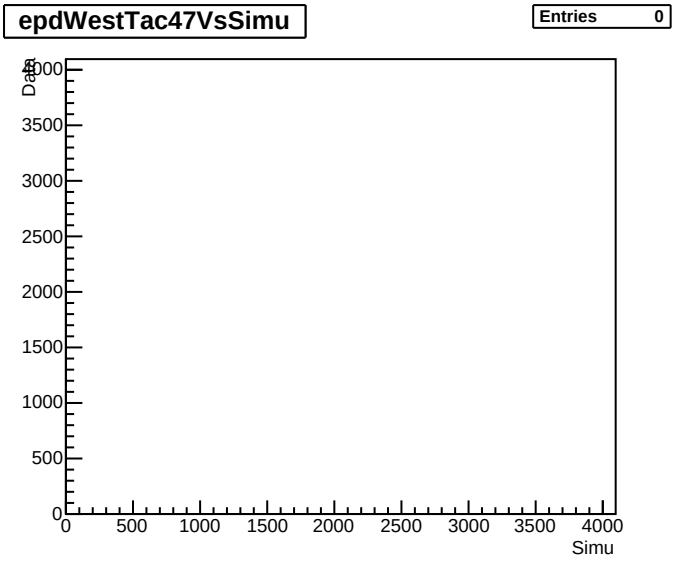
Entries 379964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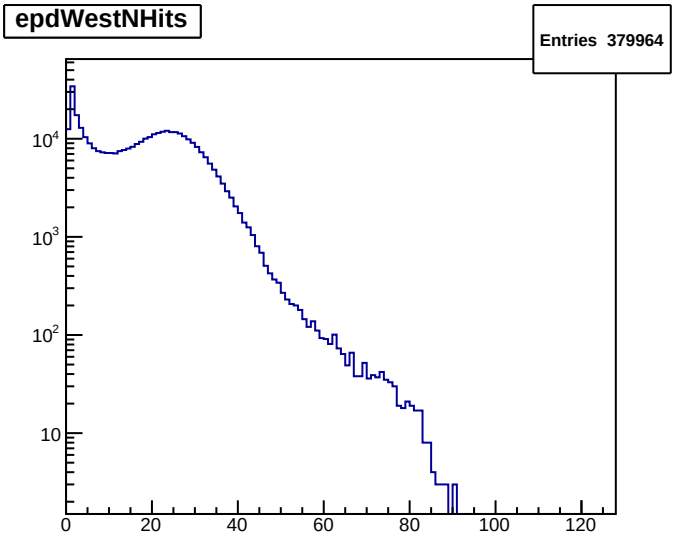
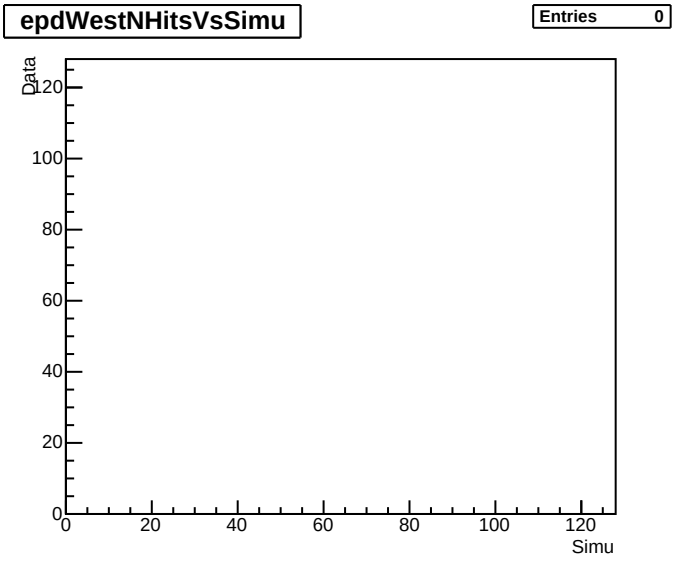
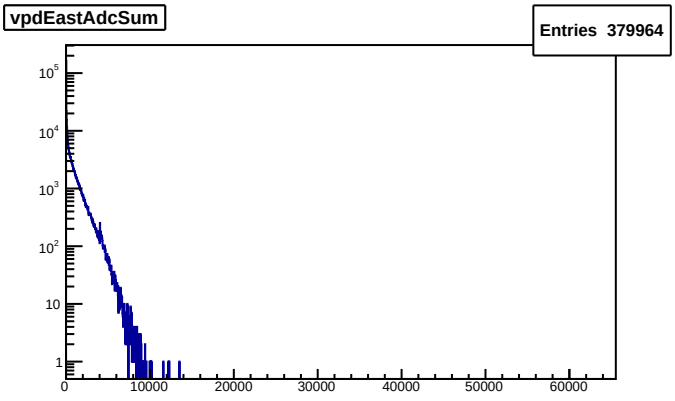
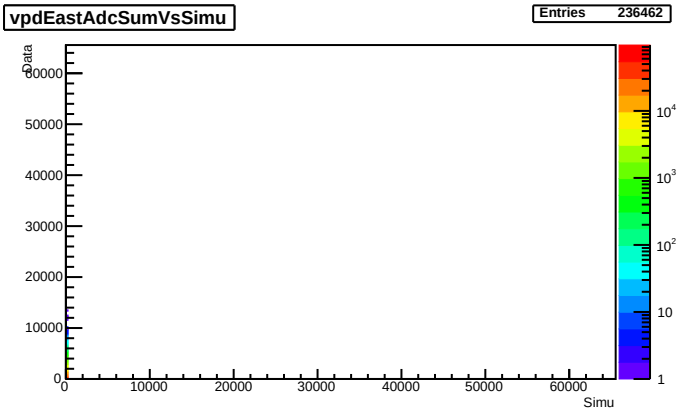
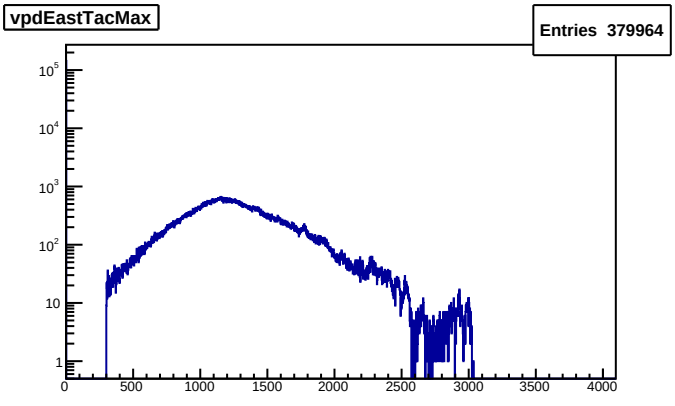
Entries 0
Data
Simu

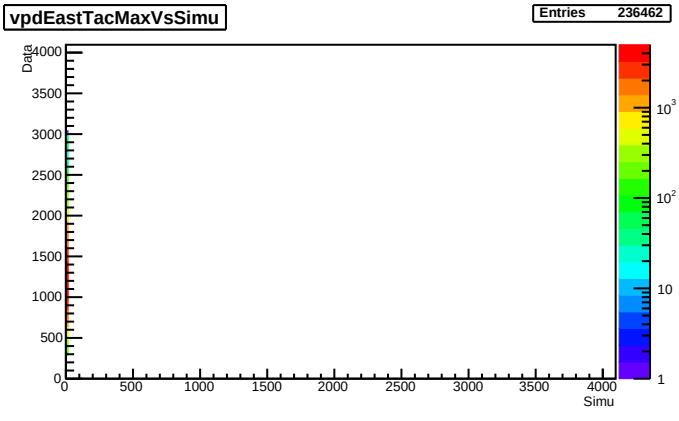

epdWestNHits
Entries 379964

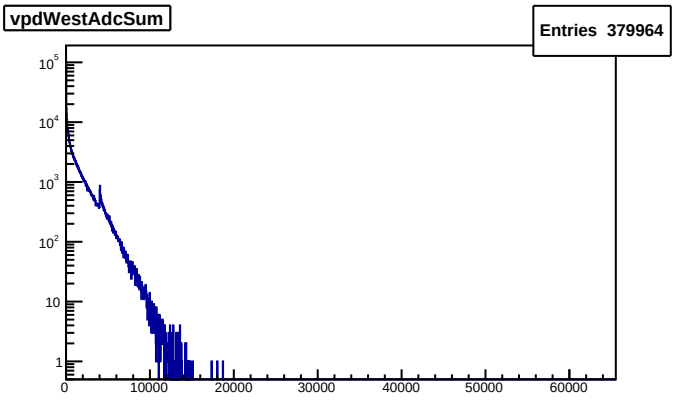

epdWestNHitsVsSimu
Entries 0
Data
Simu

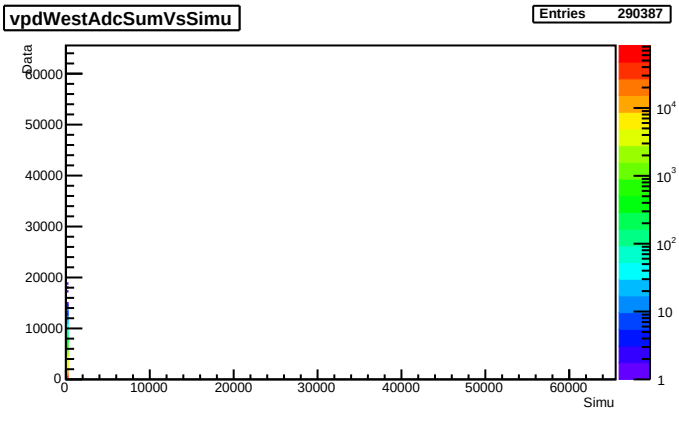

vpdEastAdcSum
Entries 379964

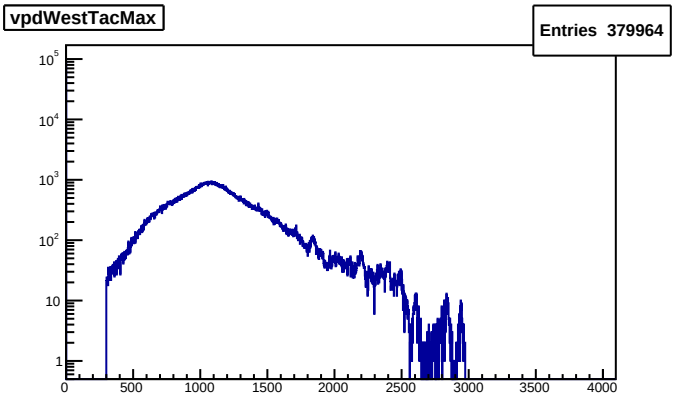

vpdEastAdcSumVsSimu
Entries 236462
Data
Simu

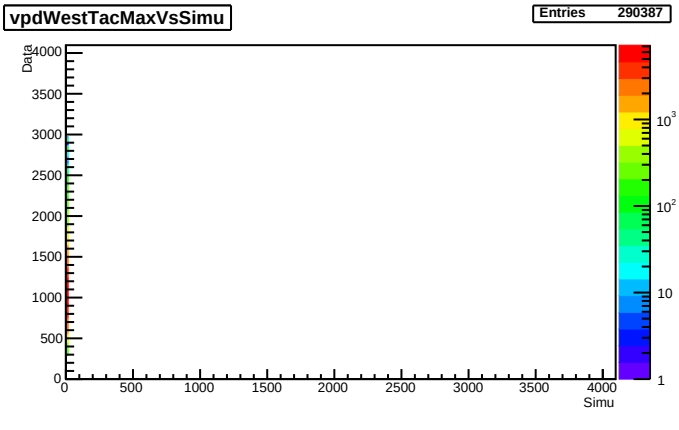

vpdEastTacMax
Entries 379964

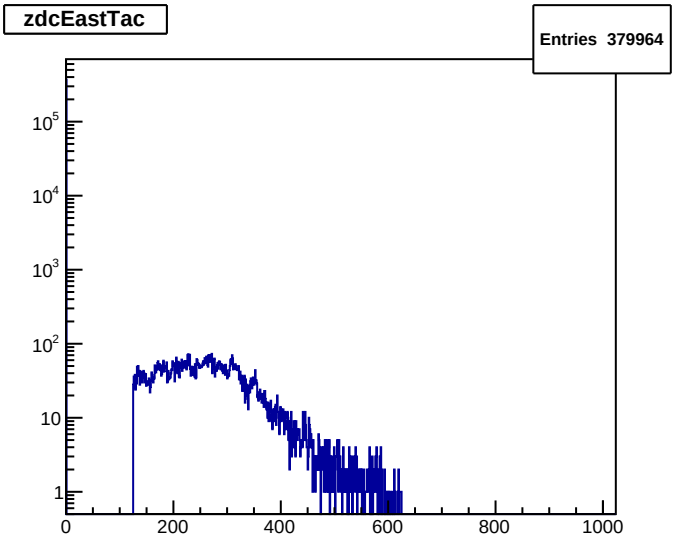

vpdEastTacMaxVsSimu
Entries 236462
Data
Simu

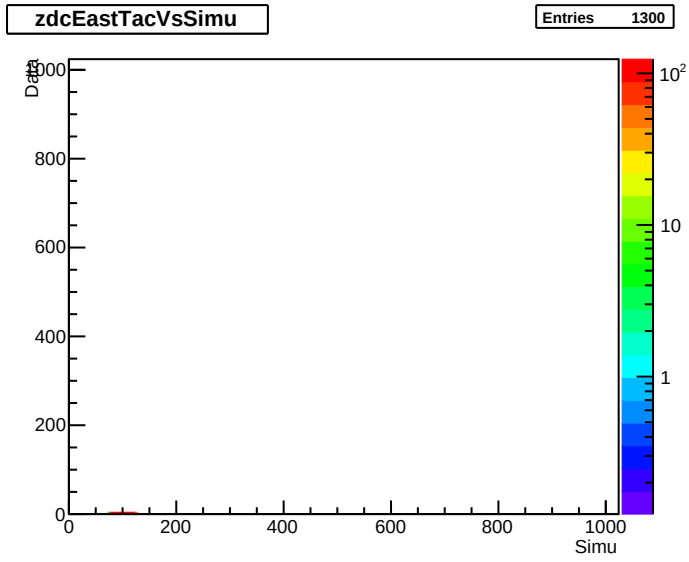

vpdWestAdcSum
Entries 379964

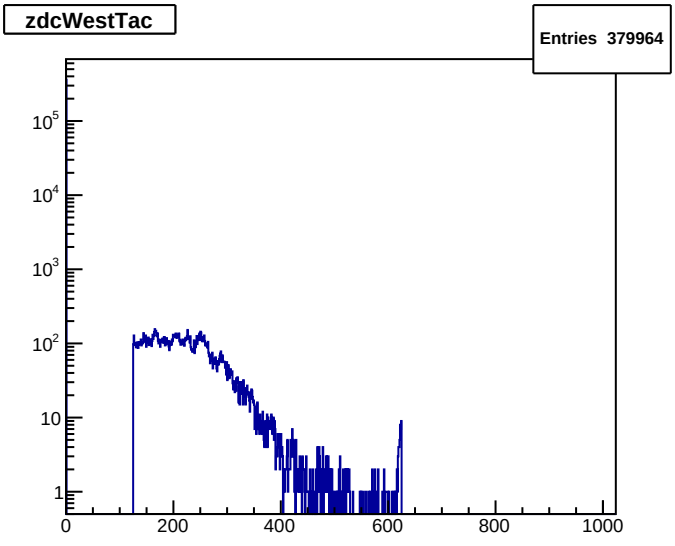

vpdWestAdcSumVsSimu
Entries 290387
Data
Simu

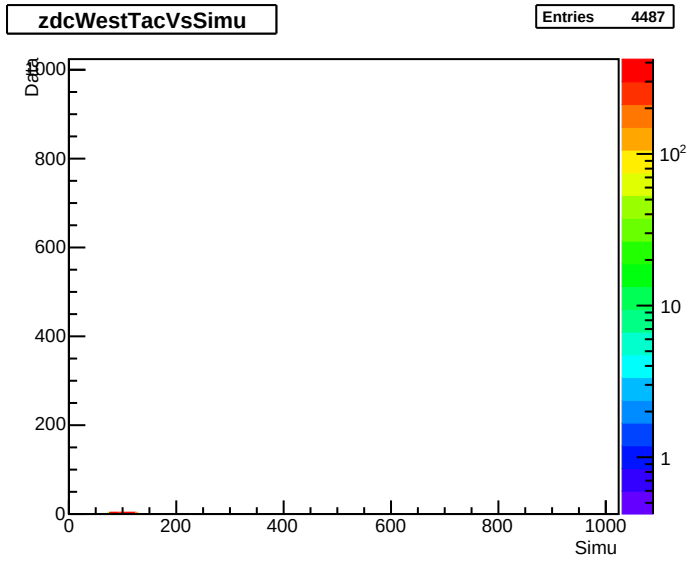

vpdWestTacMax
Entries 379964

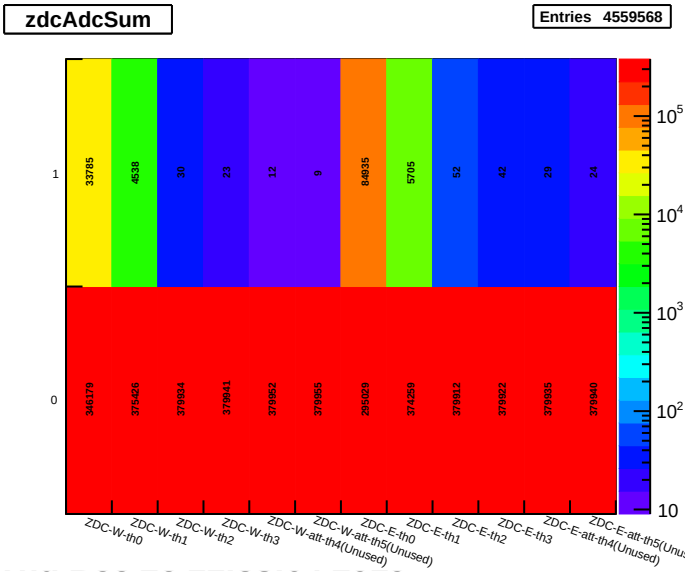

vpdWestTacMaxVsSimu
Entries 290387
Data
Simu

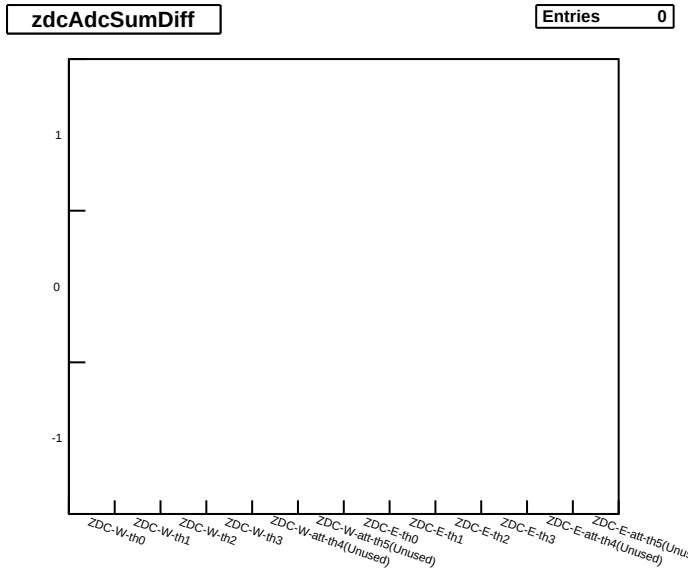

zdcEastTac
Entries 379964


zdcEastTacVsSimu
Entries 1300
Data
Simu


zdcWestTac
Entries 379964


zdcWestTacVsSimu
Entries 4487
Data
Simu


zdcAdcSum
Entries 4559568
33785
4538
30
23
12
9
84935
5705
52
42
29
24
346179
375426
379934
379941
379952
379955
295029
374259
379912
379922
379935
379940
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)


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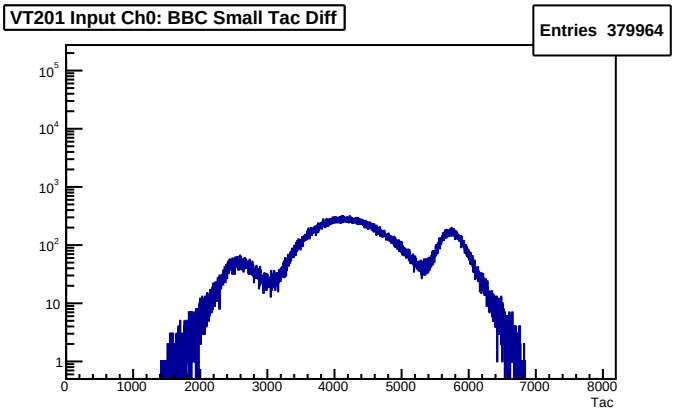
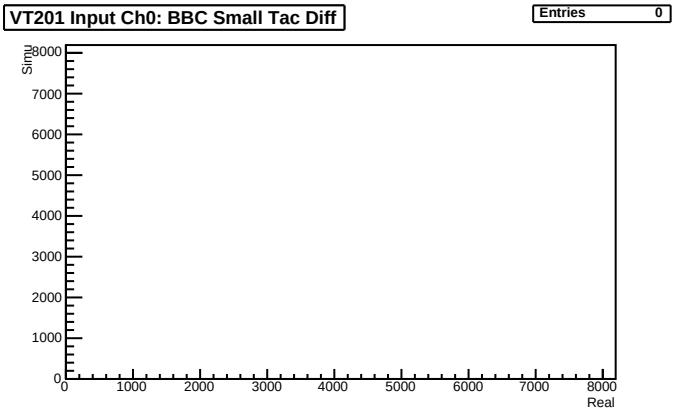
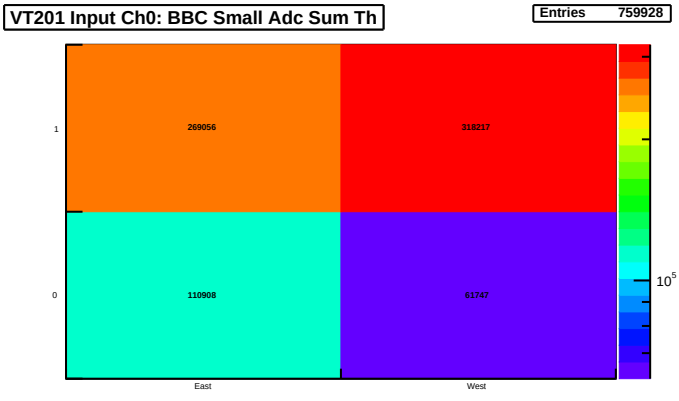
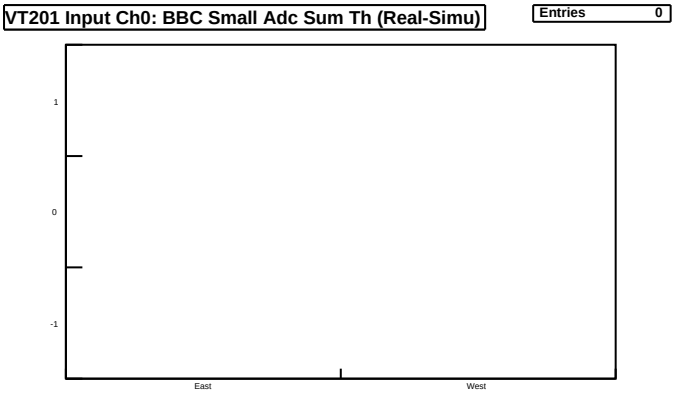
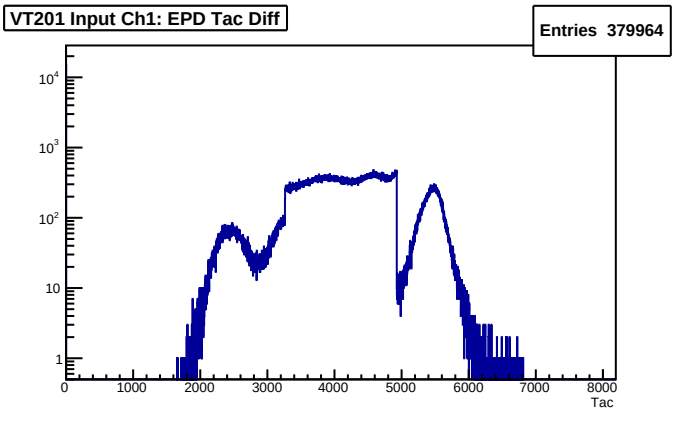
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

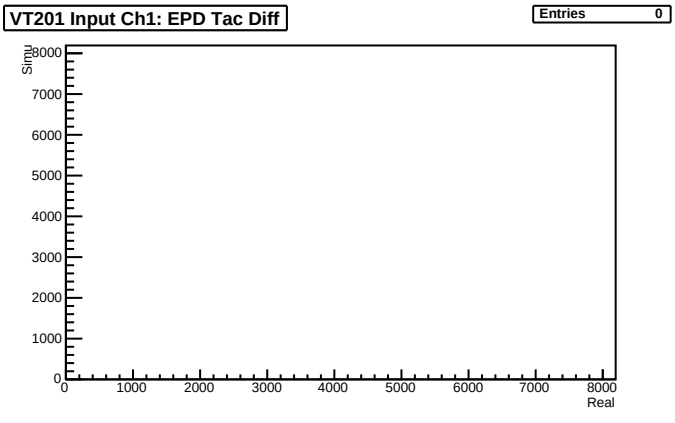

VT201 Input Ch0: BBC Small Tac Diff
Entries 379964
Tac

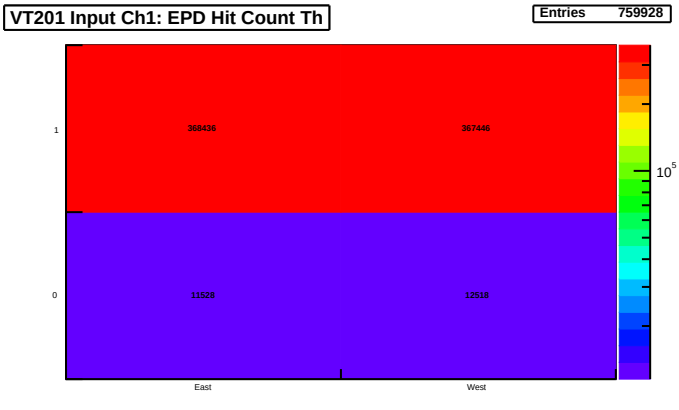

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

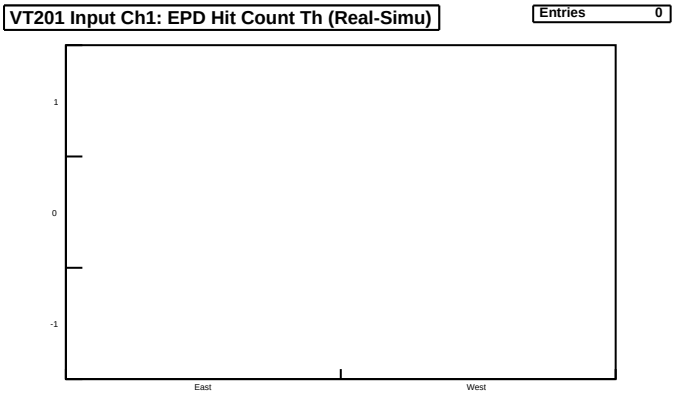

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 759928
269056
318217
110908
61747
East
West

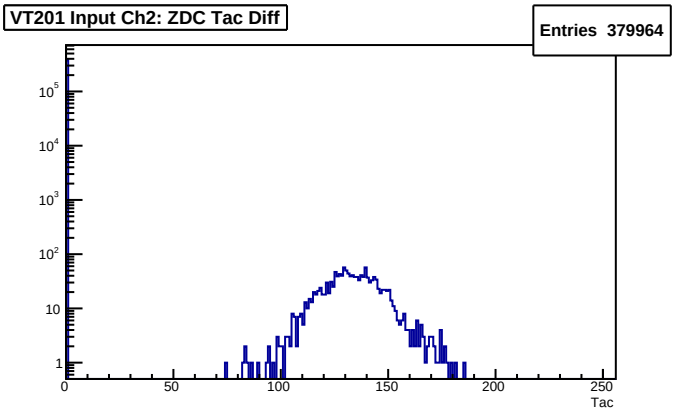

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

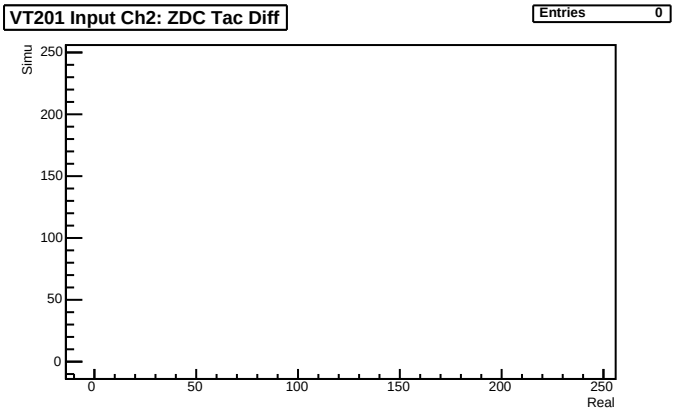

VT201 Input Ch1: EPD Tac Diff
Entries 379964
Tac

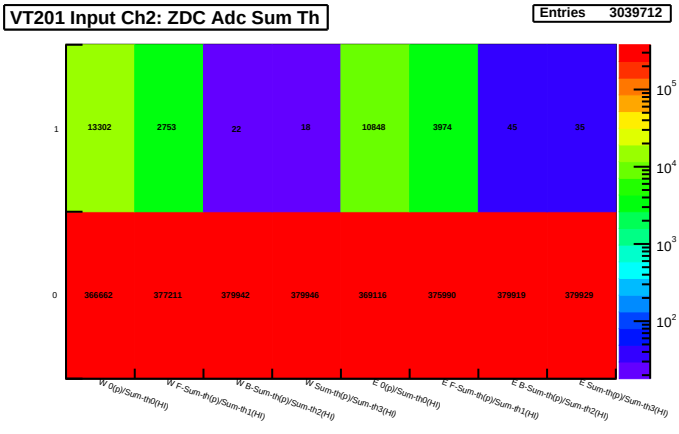

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

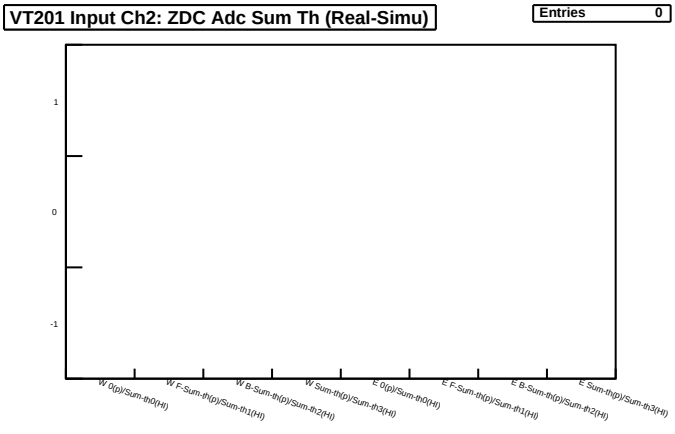

VT201 Input Ch1: EPD Hit Count Th
Entries 759928
368436
367446
11528
12518
East
West

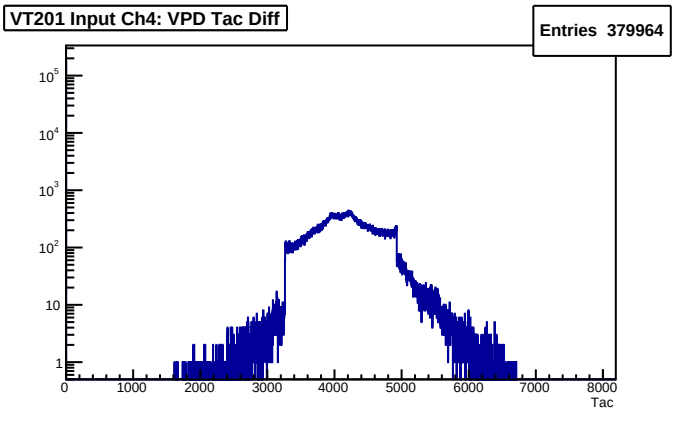

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

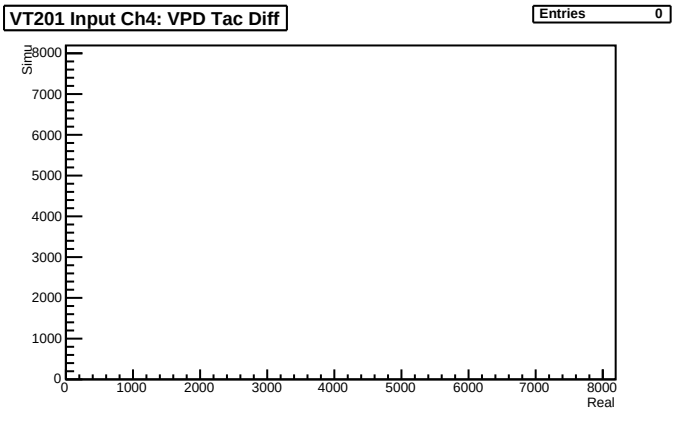

VT201 Input Ch2: ZDC Tac Diff
Entries 379964
Tac

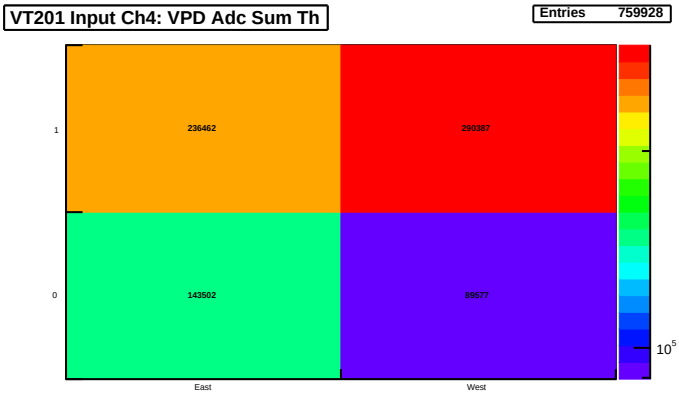

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

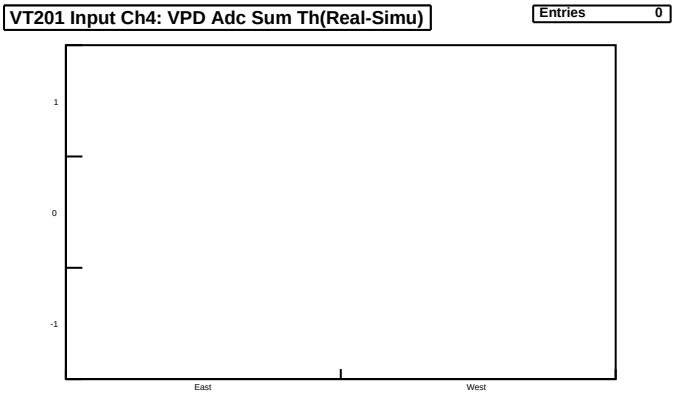

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3039712
13302
2753
22
18
10848
3974
45
35
366662
377211
379942
379946
369116
375990
379919
379929
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

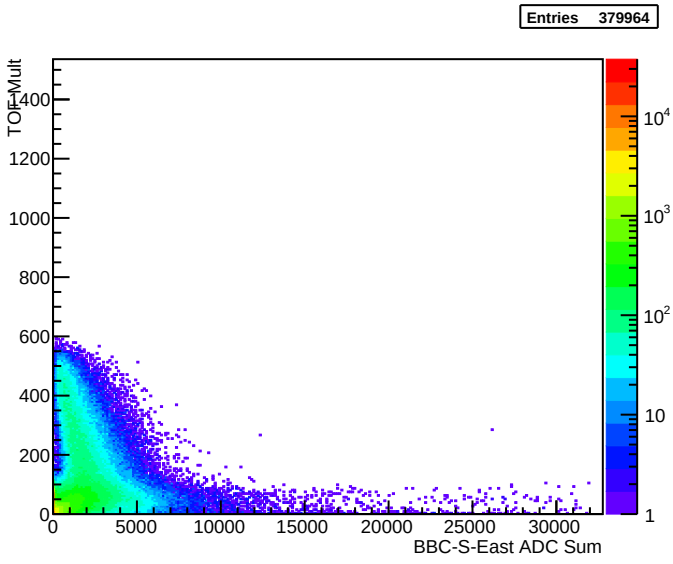

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

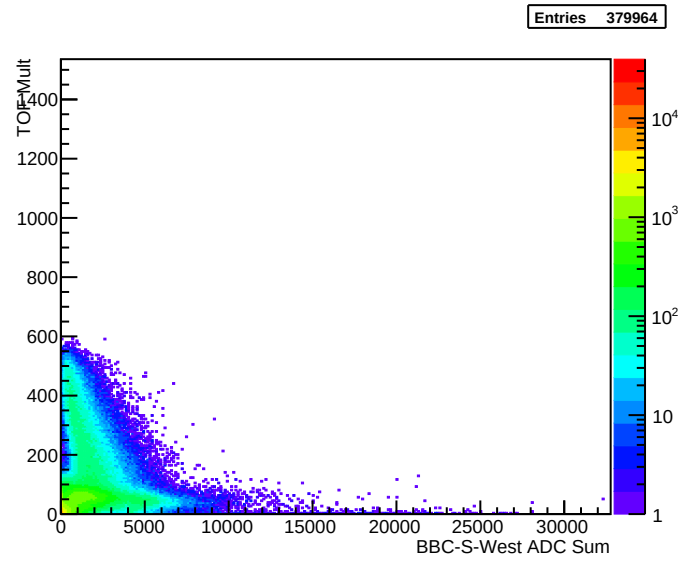

VT201 Input Ch4: VPD Tac Diff
Entries 379964
Tac

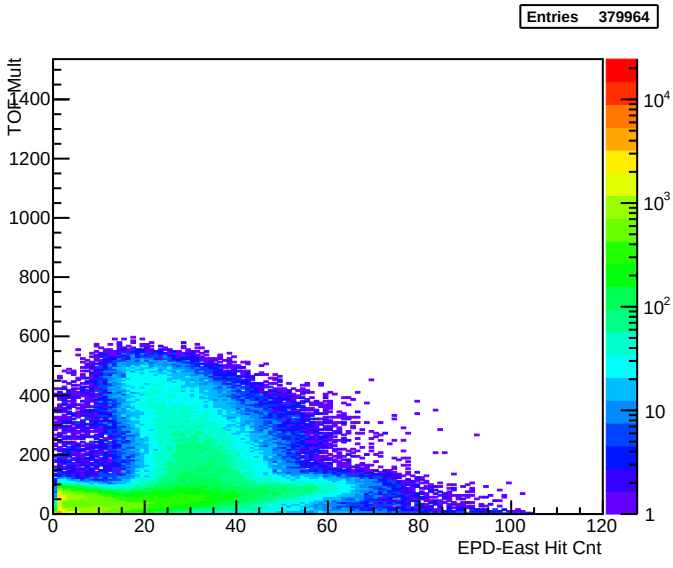

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

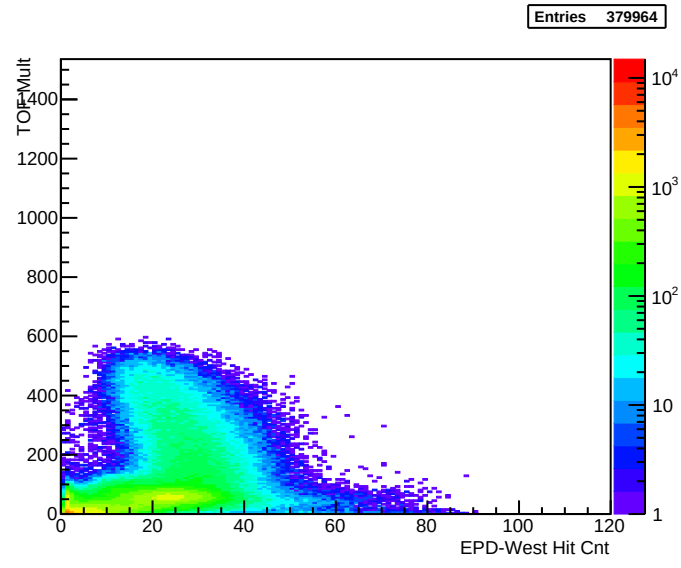

VT201 Input Ch4: VPD Adc Sum Th
Entries 759928
236462
290387
143502
89577
East
West

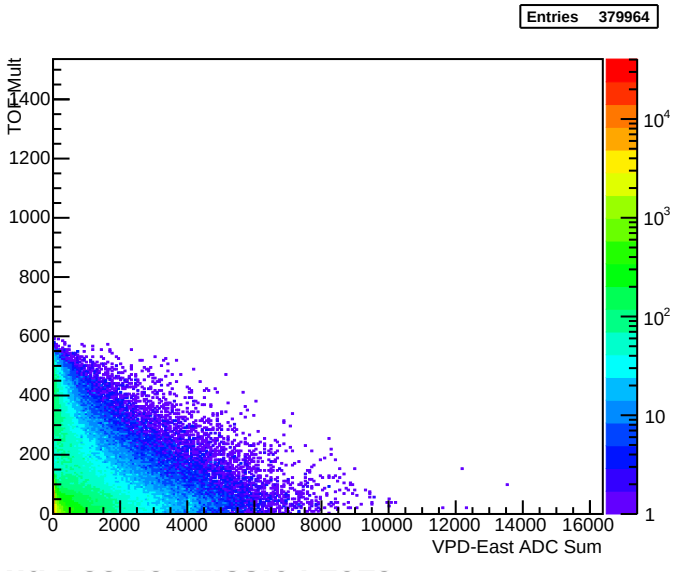

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

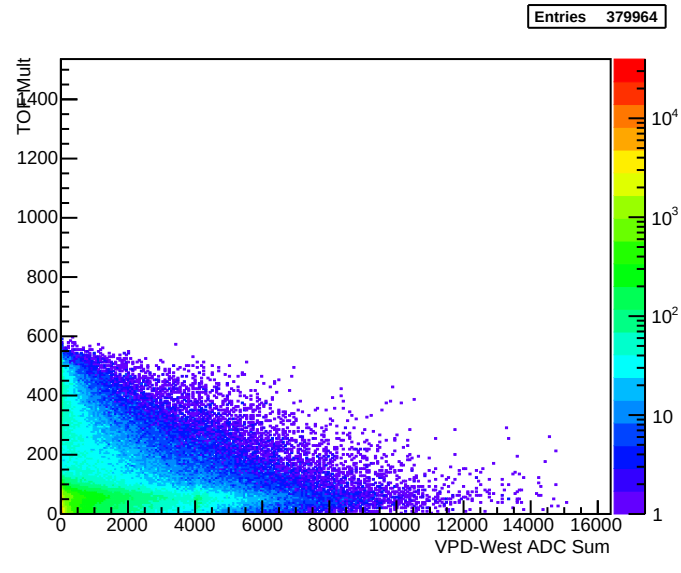

Entries 379964
TOF-Mult
BBC-S-East ADC Sum

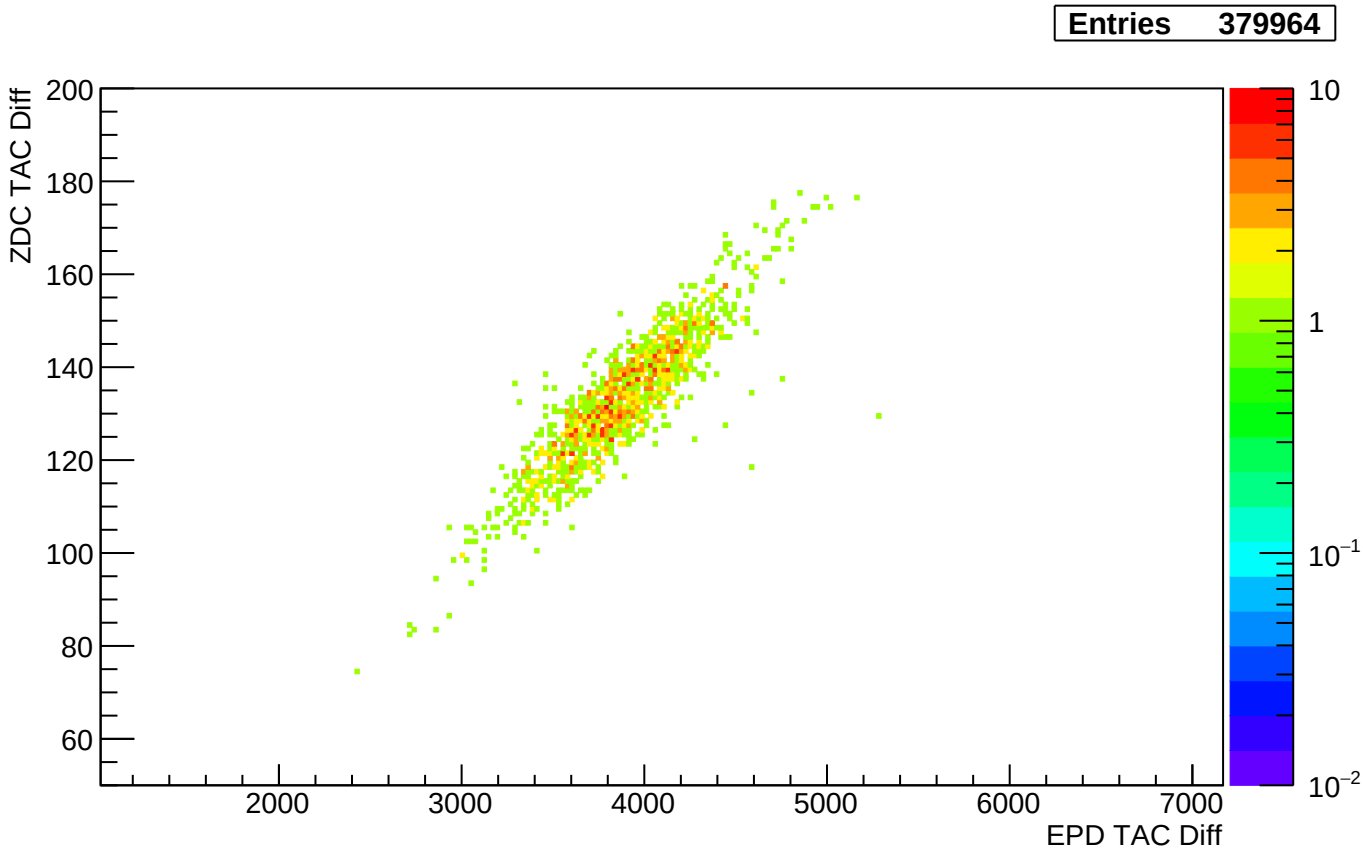

Entries 379964
TOF-Mult
BBC-S-West ADC Sum

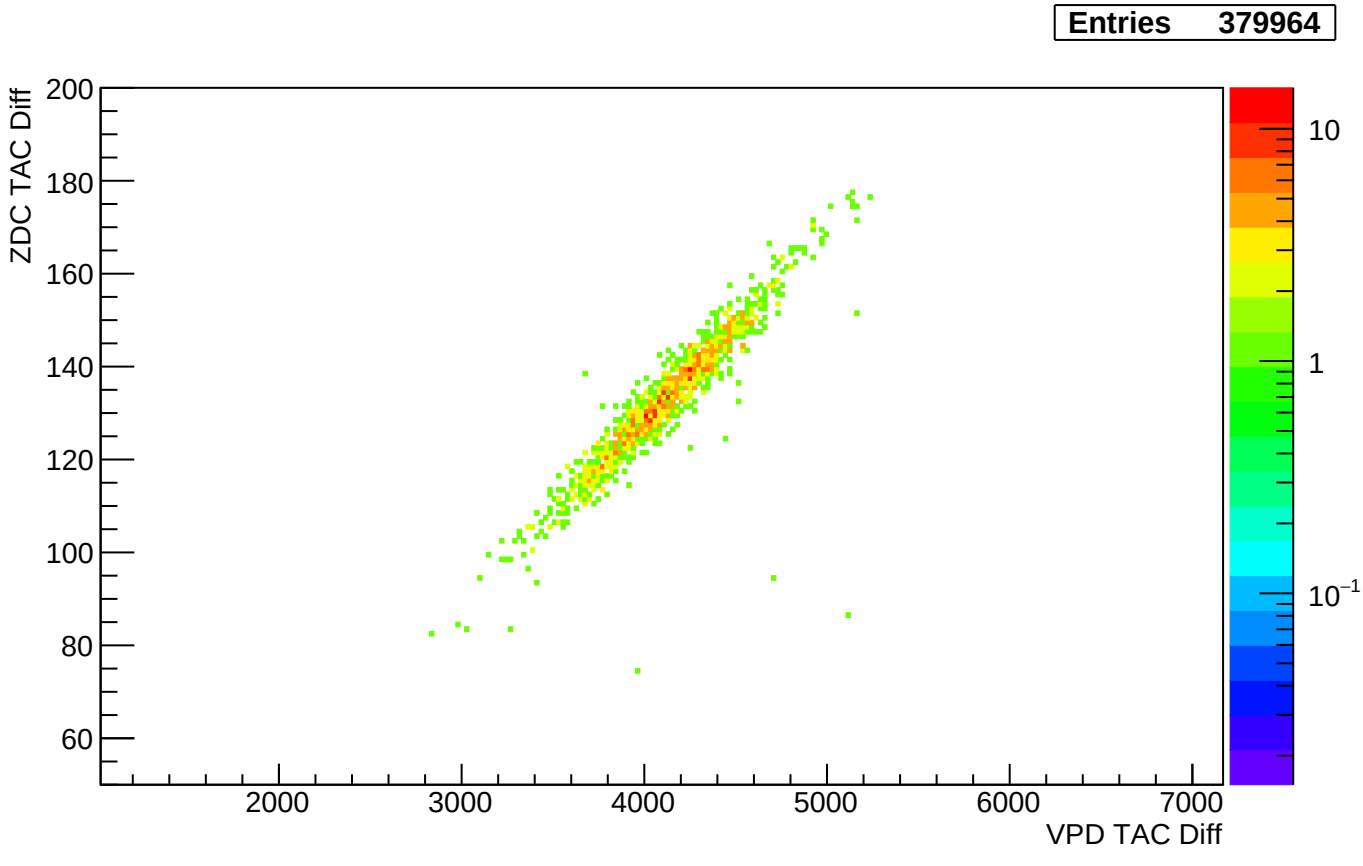

Entries 379964
TOF-Mult
EPD-East Hit Cnt

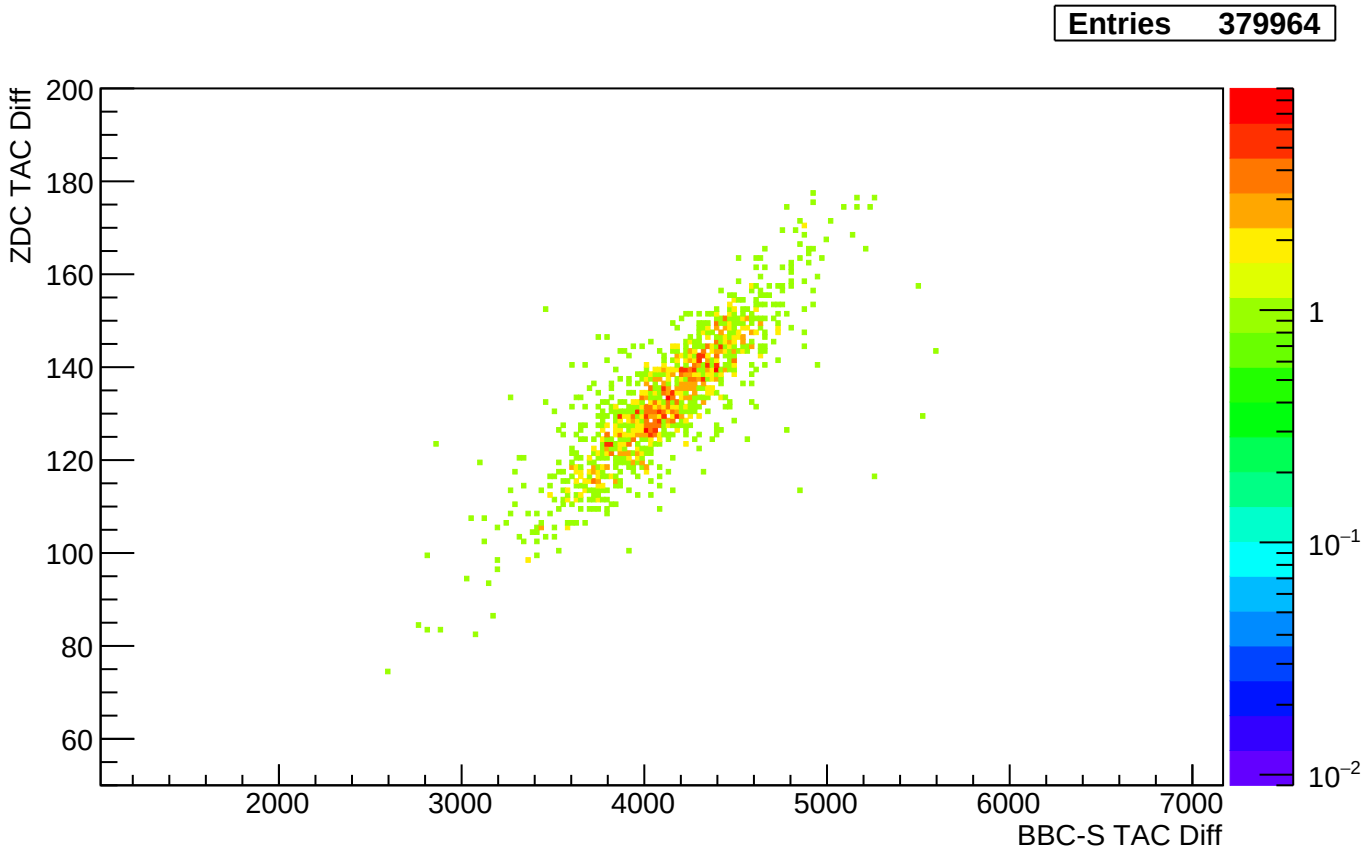

Entries 379964
TOF-Mult
EPD-West Hit Cnt

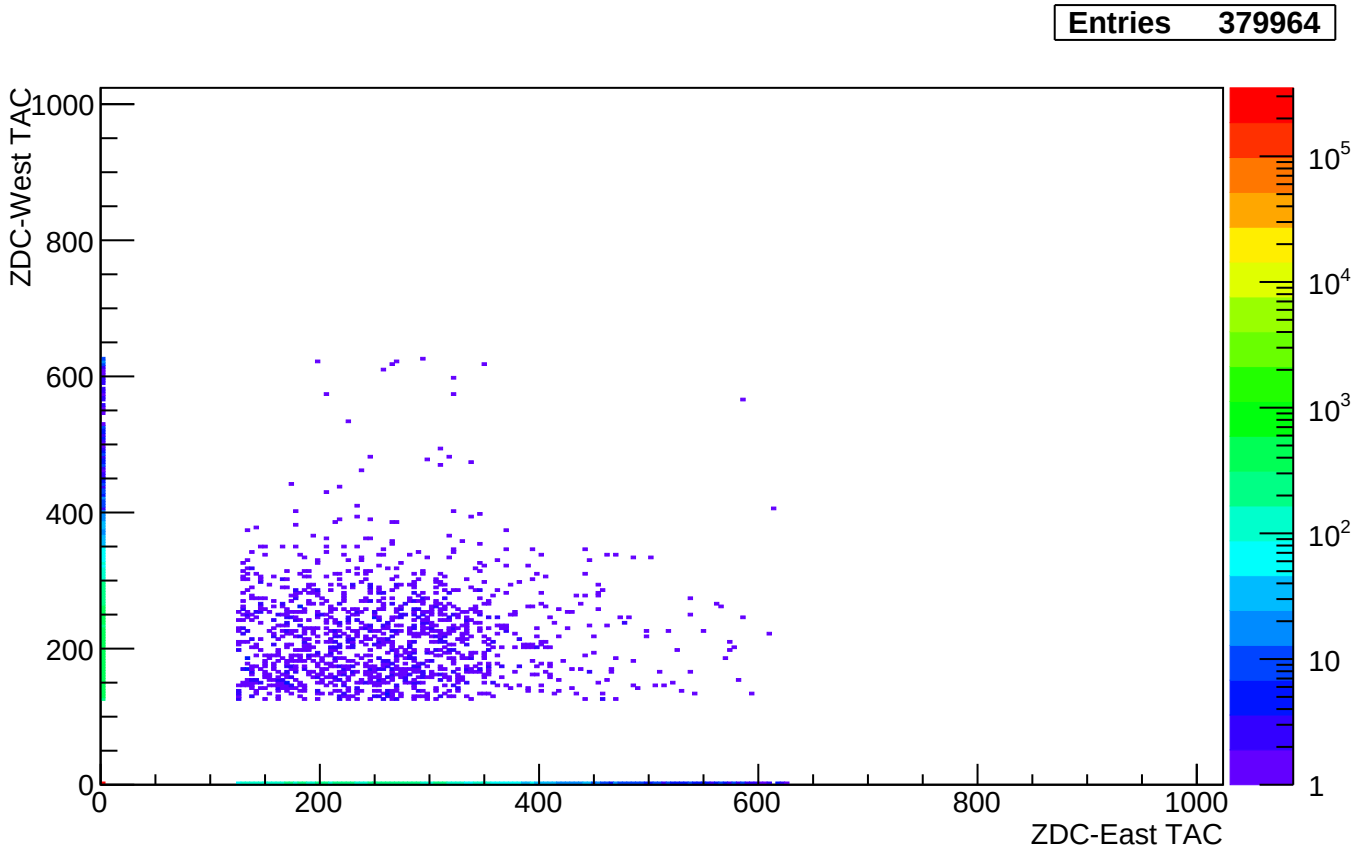

Entries 379964
TOF-Mult
VPD-East ADC Sum

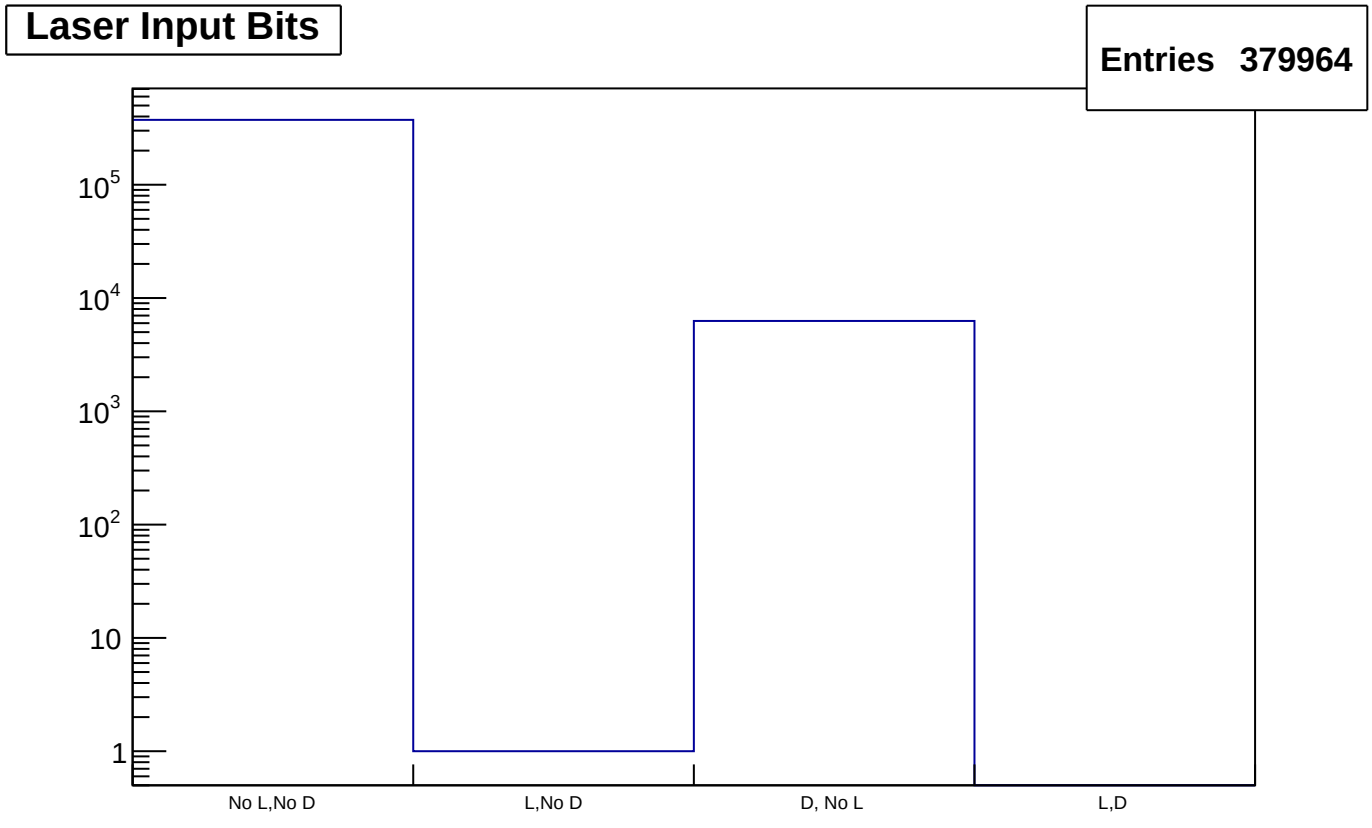

Entries 379964
TOF-Mult
VPD-West ADC Sum

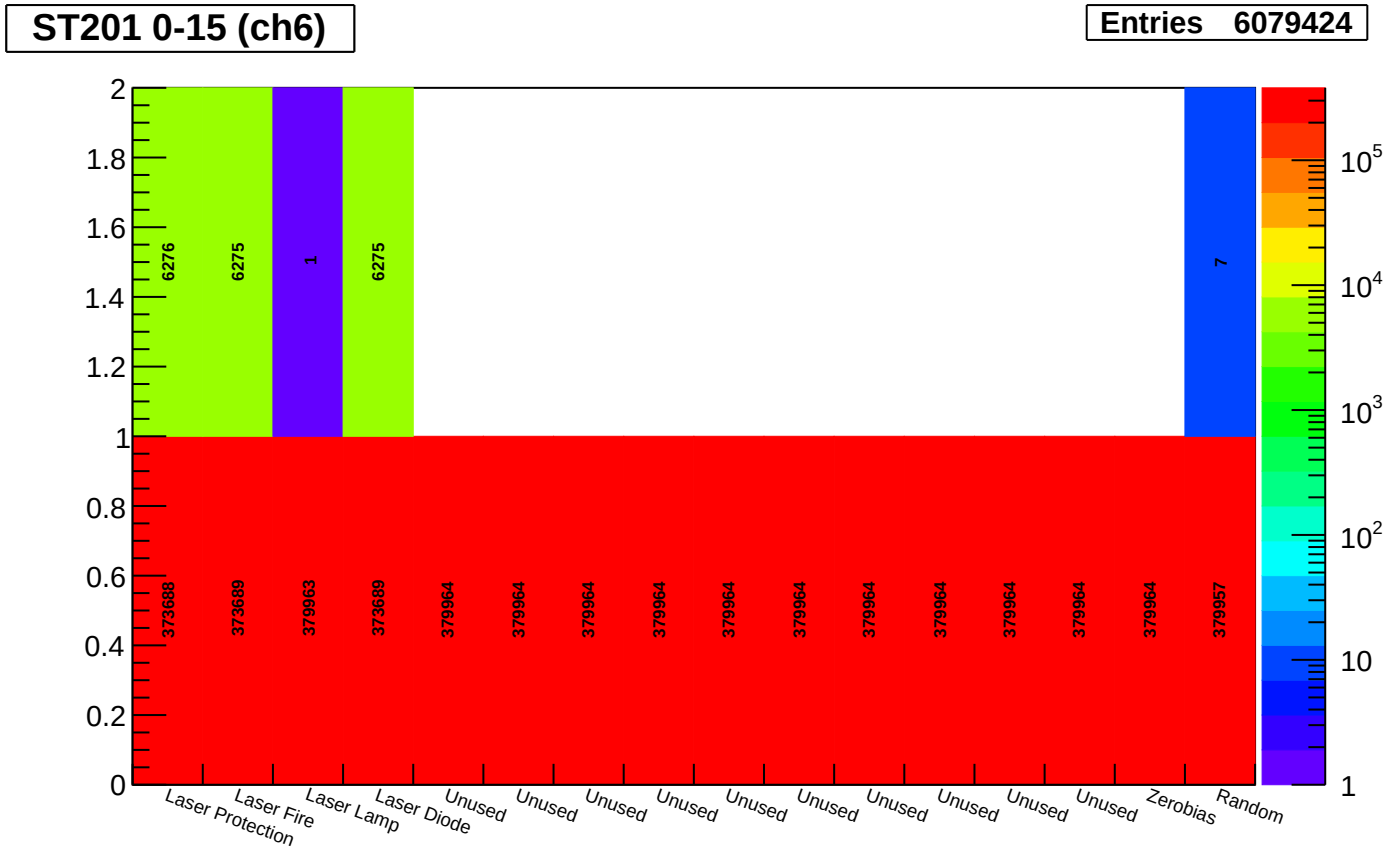

Entries 379964
ZDC TAC Diff
EPD TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
10
1
10^{-1}
10^{-2}

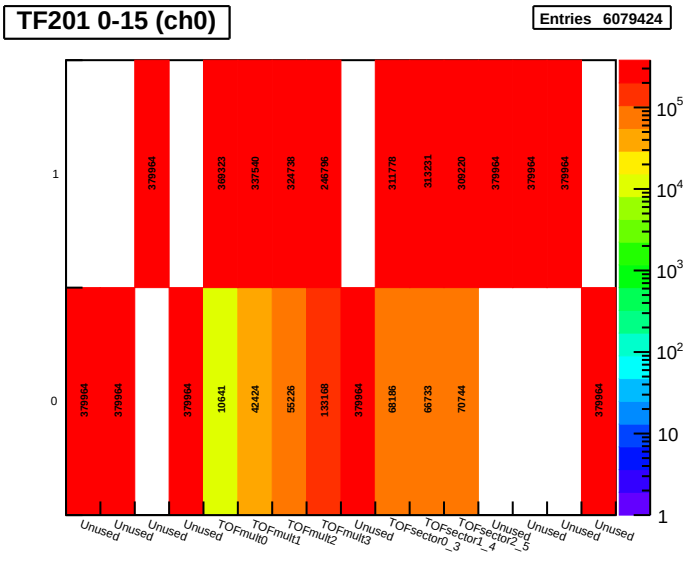

Entries 379964
ZDC TAC Diff
VPD TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
10
1
10^{-1}

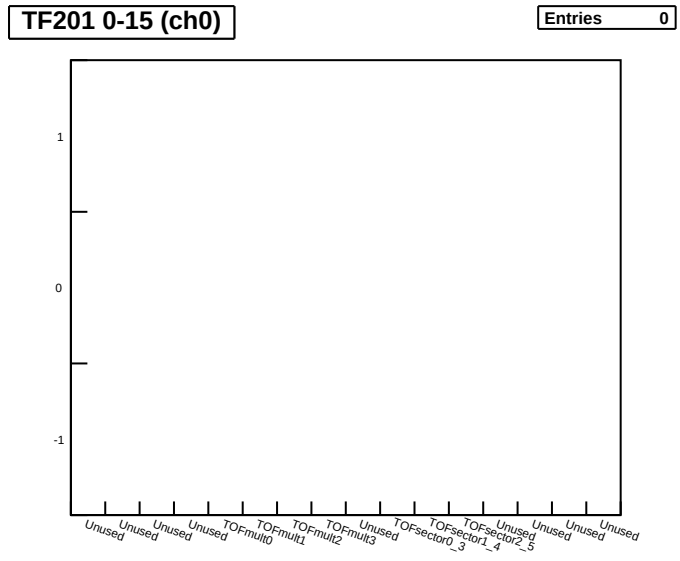

Entries 379964
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

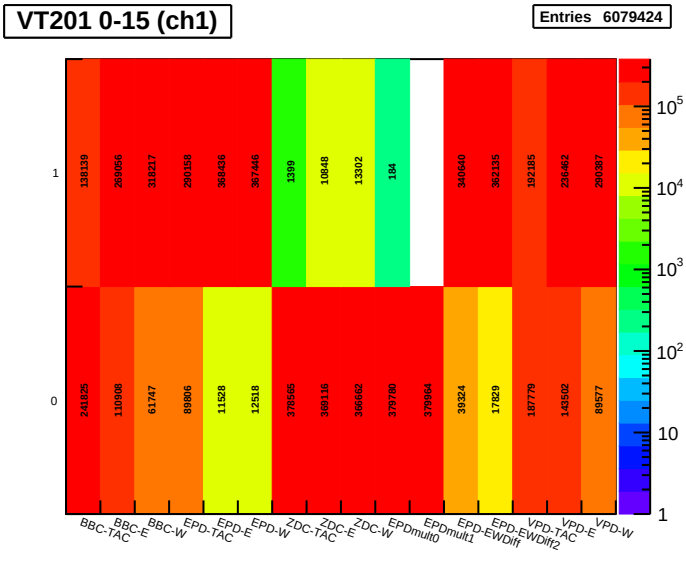

Entries 379964
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

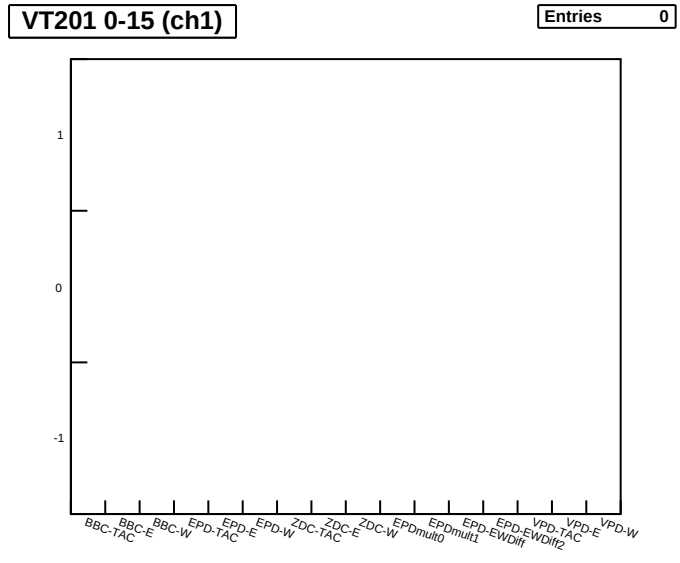

Laser Input Bits
Entries 379964
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

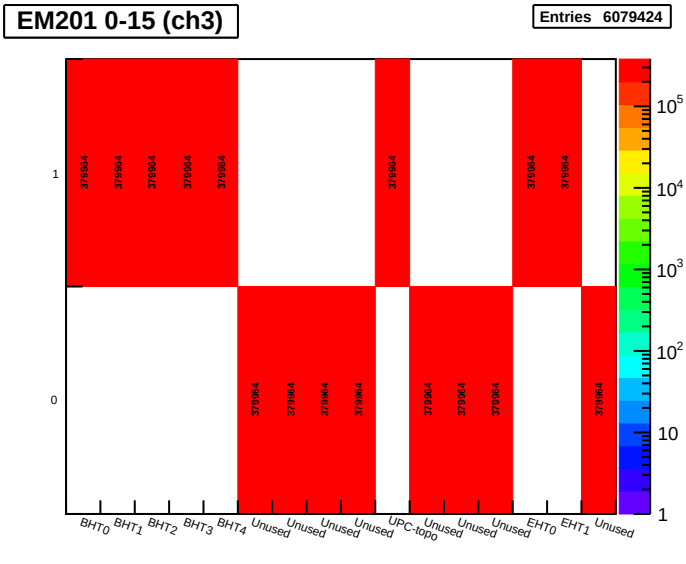

ST201 0-15 (ch6)
Entries 6079424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6276
6275
1
6275
7
373688
373689
379963
373689
379964
379964
379964
379964
379964
379964
379964
379964
379964
379964
379964
379957
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

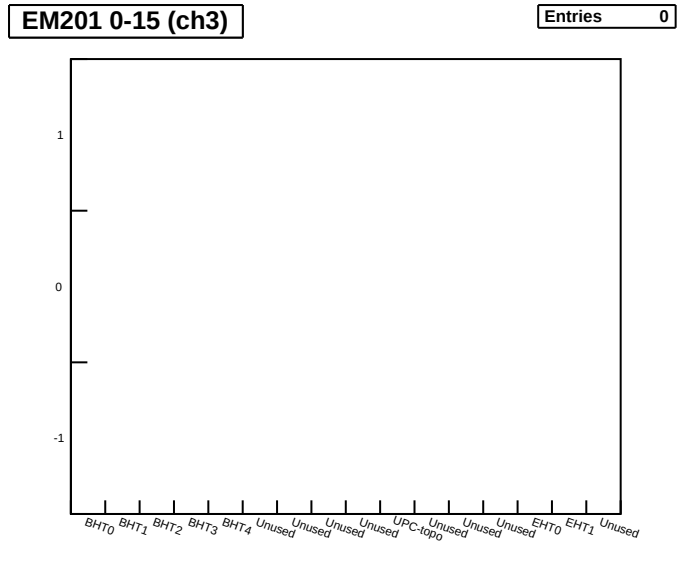

TF201 0-15 (ch0)
Entries 6079424
1
0
379964 379964 379964 379964 369323 337540 324738 246796 311778 313231 309220 379964 379964 379964
379964 379964 379964 10641 42424 55226 133168 379964 68186 66733 70744 379964
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 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 6079424
1
0
138139 269056 318217 290158 368436 367446 1399 10848 13302 184 340640 362135 192185 236462 290387
241825 110908 61747 89806 11528 12518 378565 369116 366662 379780 379964 39324 17829 187779 143502 89577
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 6079424
1
0
379964 379964 379964 379964 379964 379964 379964 379964 379964
379964 379964 379964 379964 379964 379964 379964 379964
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