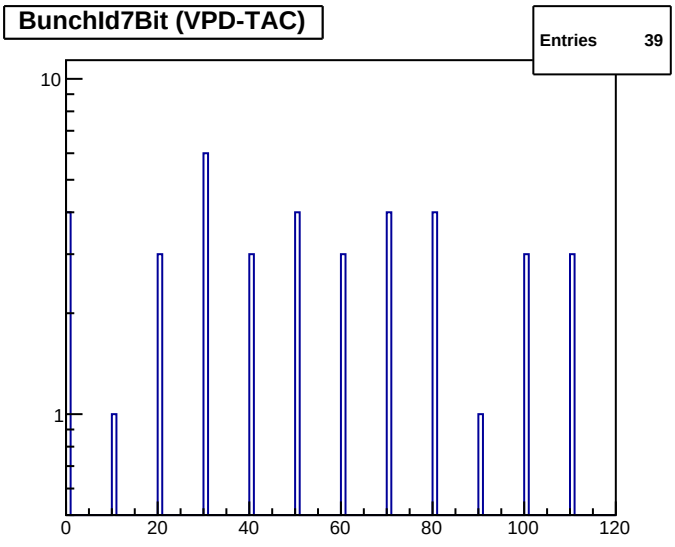
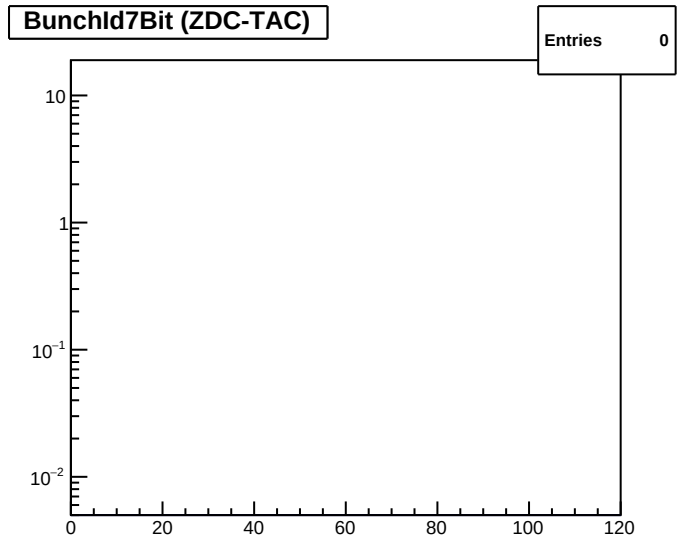
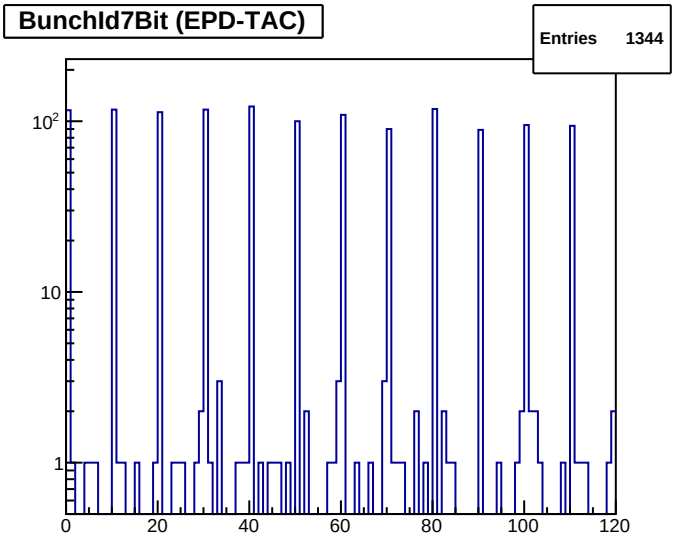
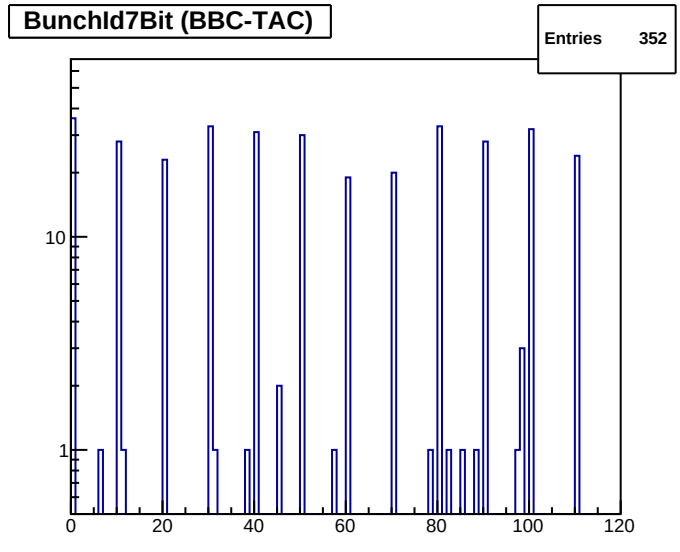
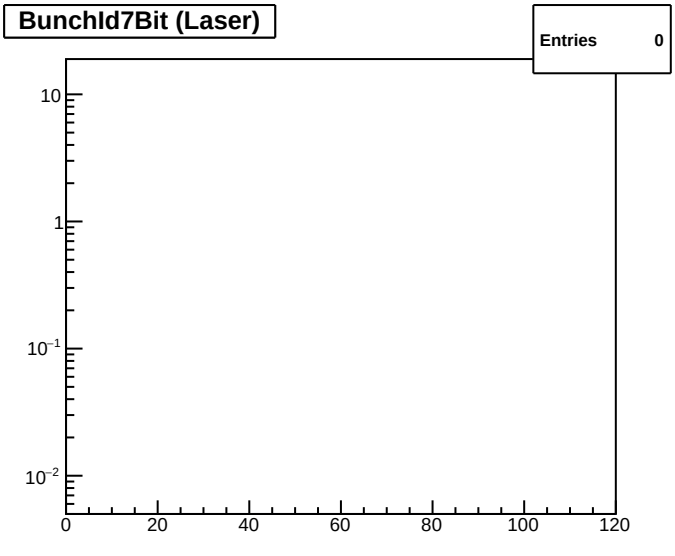
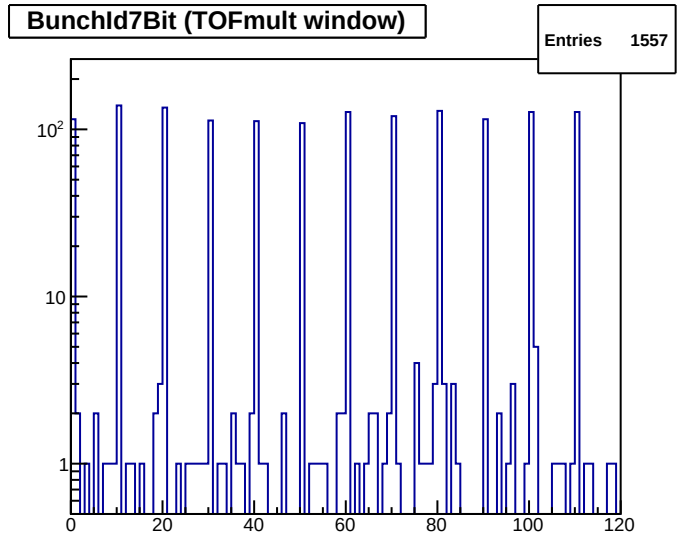

BunchId7Bit (VPD-TAC)
Entries 39
10
1
0
20
40
60
80
100
120

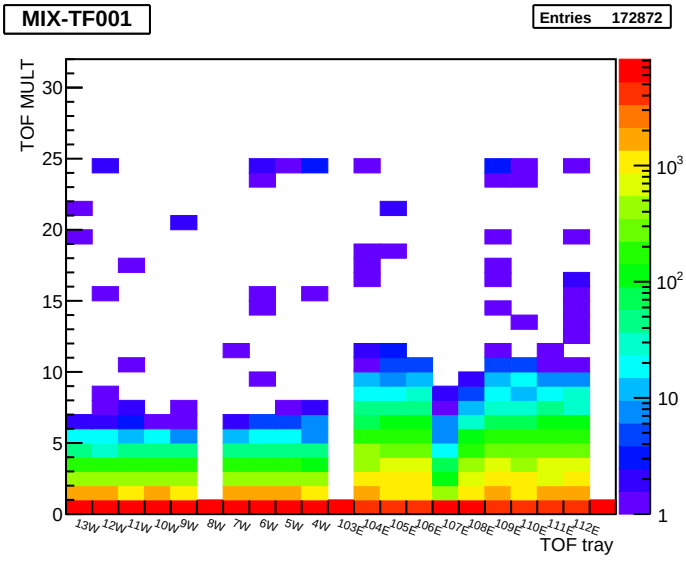

BunchId7Bit (ZDC-TAC)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

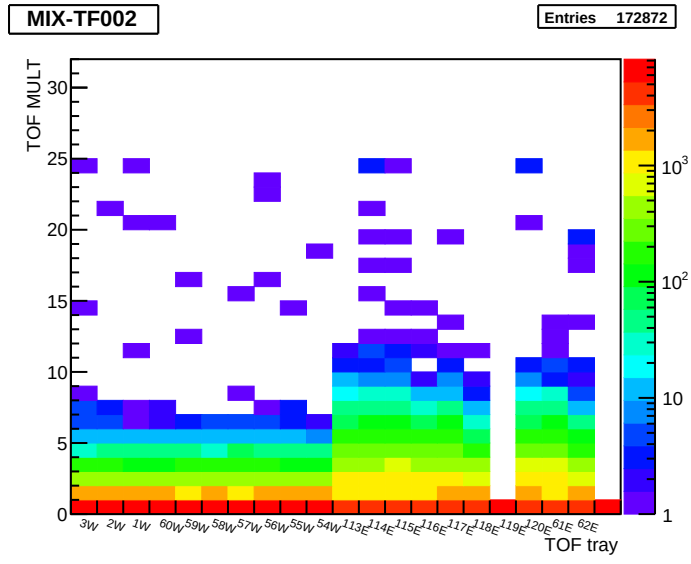

BunchId7Bit (EPD-TAC)
Entries 1344
10^{2}
10
1
0
20
40
60
80
100
120

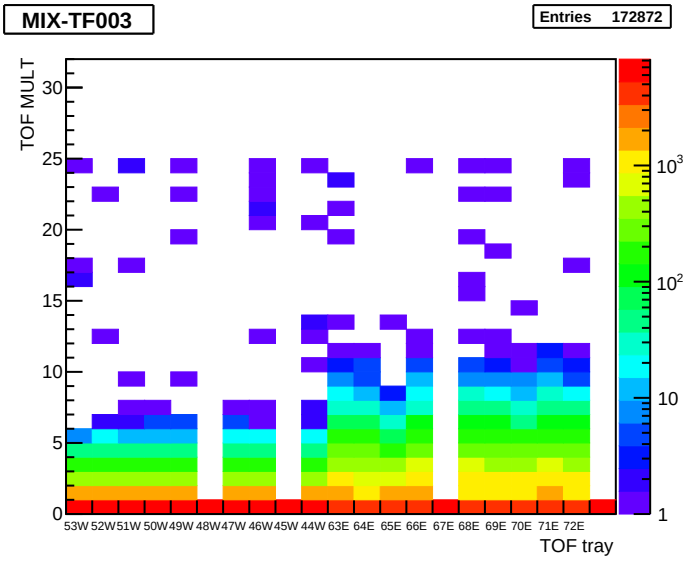

BunchId7Bit (BBC-TAC)
Entries 352
10
1
0
20
40
60
80
100
120

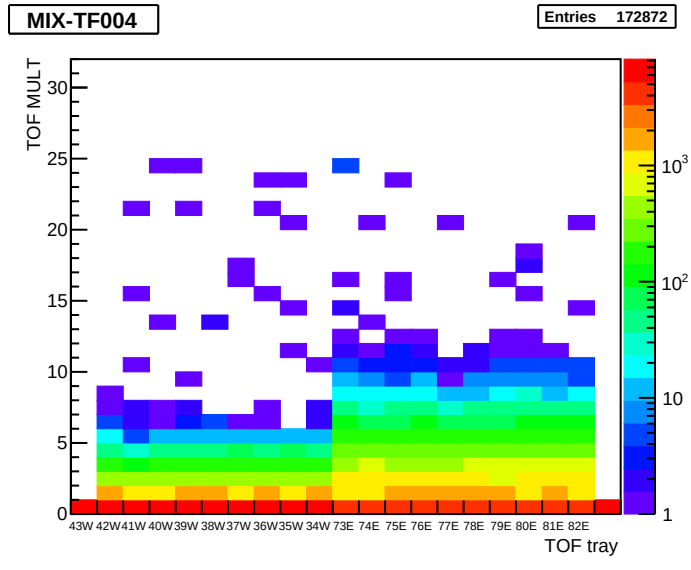

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

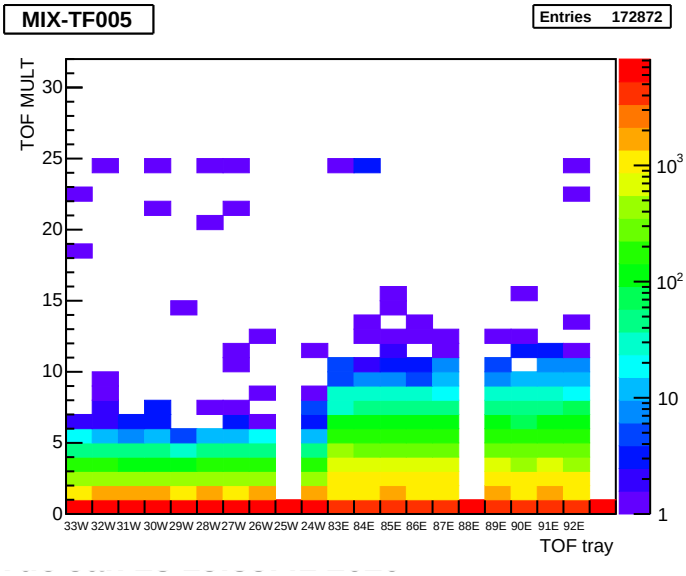

BunchId7Bit (TOFmult window)
Entries 1557
10^{2}
10
1
0
20
40
60
80
100
120

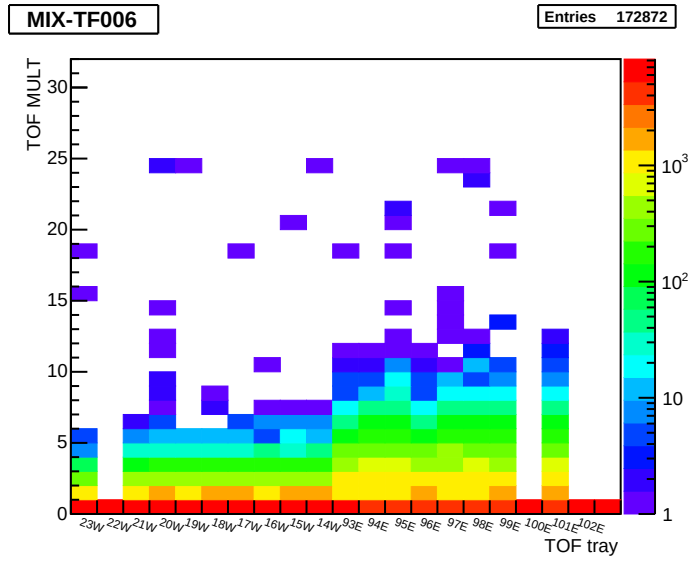

MIX-TF001
Entries 172872
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

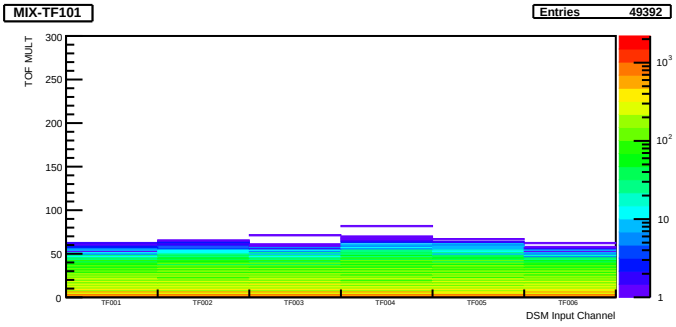

MIX-TF002
Entries 172872
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

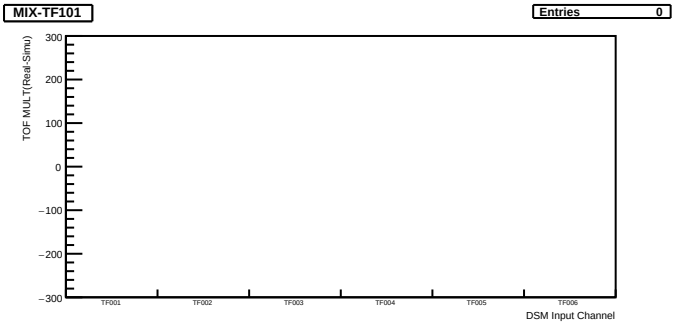

MIX-TF003
Entries 172872
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

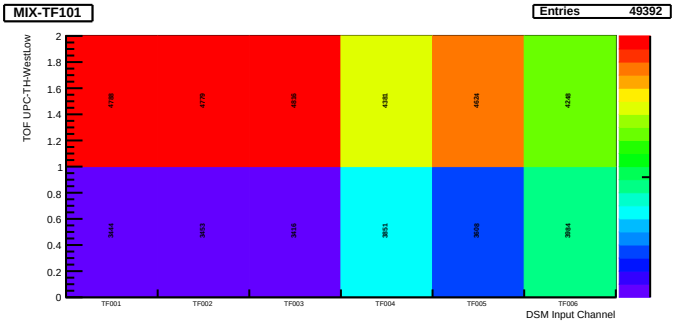

MIX-TF004
Entries 172872
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

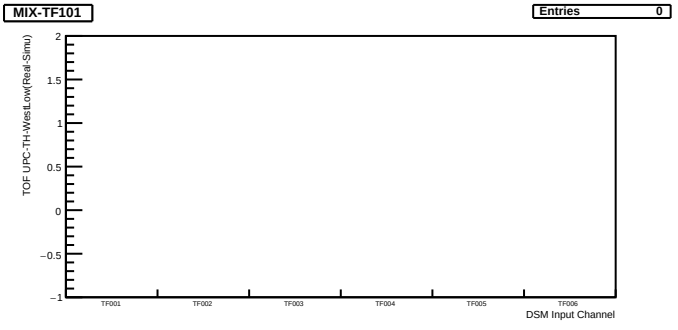

MIX-TF005
Entries 172872
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

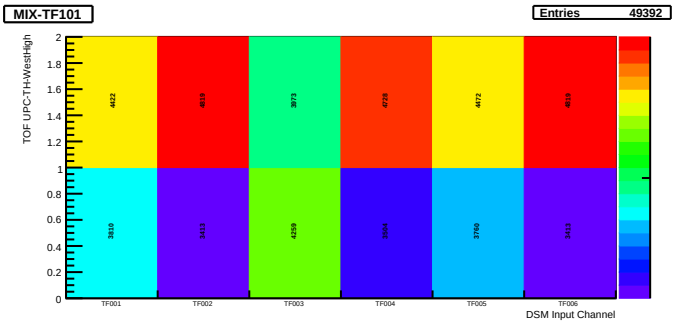

MIX-TF006
Entries 172872
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

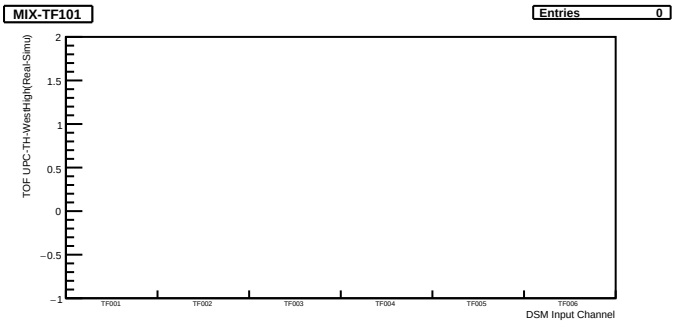

MIX-TF101
Entries 49392
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

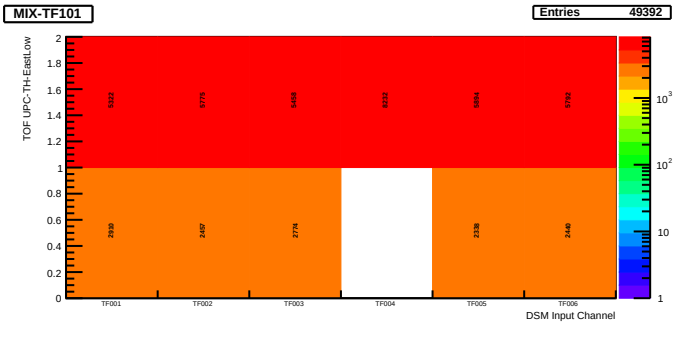

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

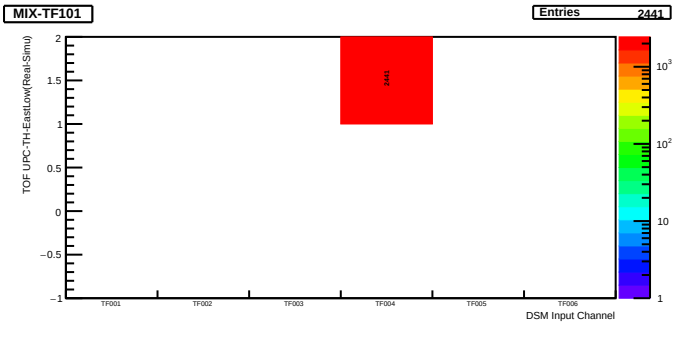

MIX-TF101
Entries 49392
TOF UPC-TH-WestLow
4778
4779
4835
4381
4634
4248
3444
3453
3415
3651
3608
3984
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

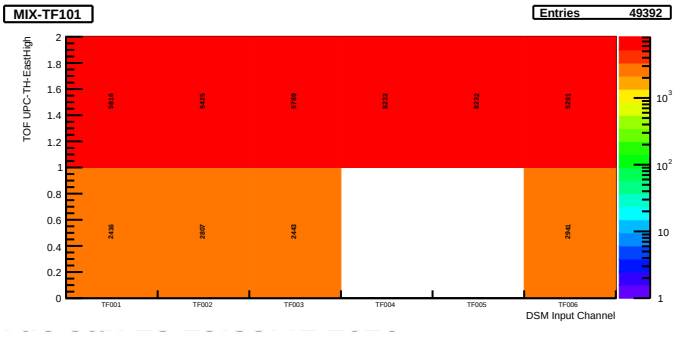

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

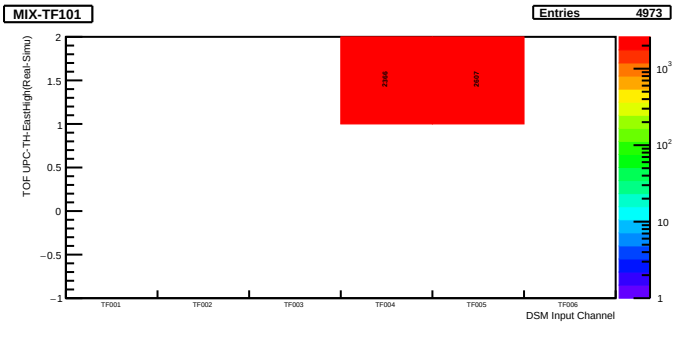

MIX-TF101
Entries 49392
TOF UPC-TH-WestHigh
4622
4819
3873
4728
4472
4819
3810
3413
4259
3504
3760
3413
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

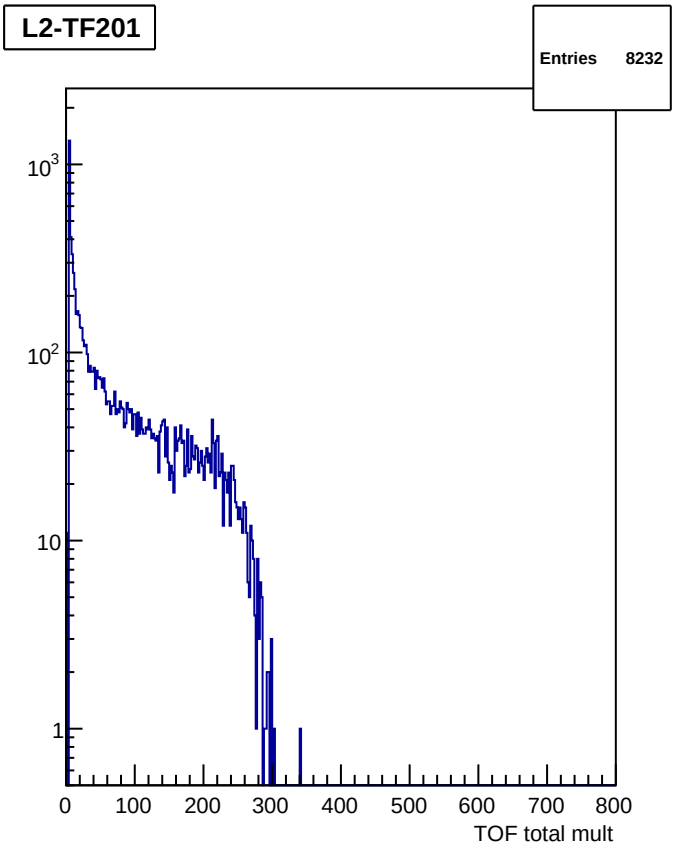

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

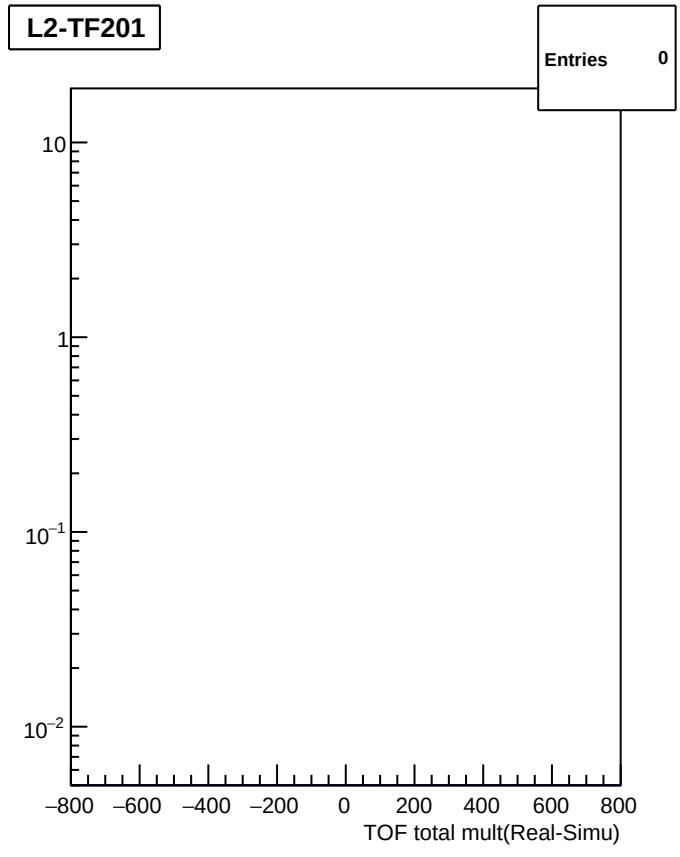

MIX-TF101
Entries 49392
TOF UPC-TH-EastLow
5322
5775
5458
8232
5894
5792
2930
2497
2774
2338
2440
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

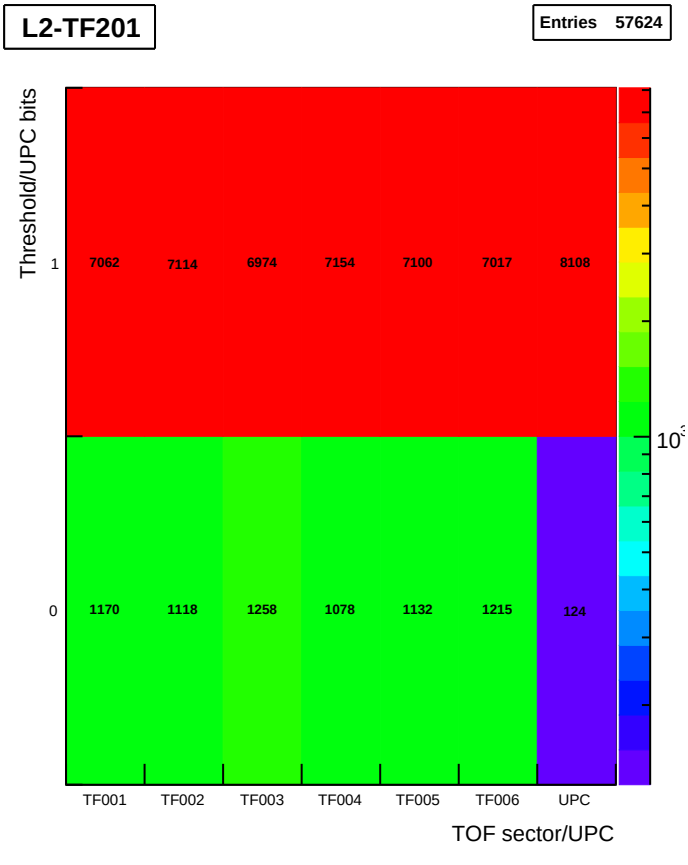

MIX-TF101
Entries 2441
TOF UPC-TH-EastLow(Real-Simu)
2441
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

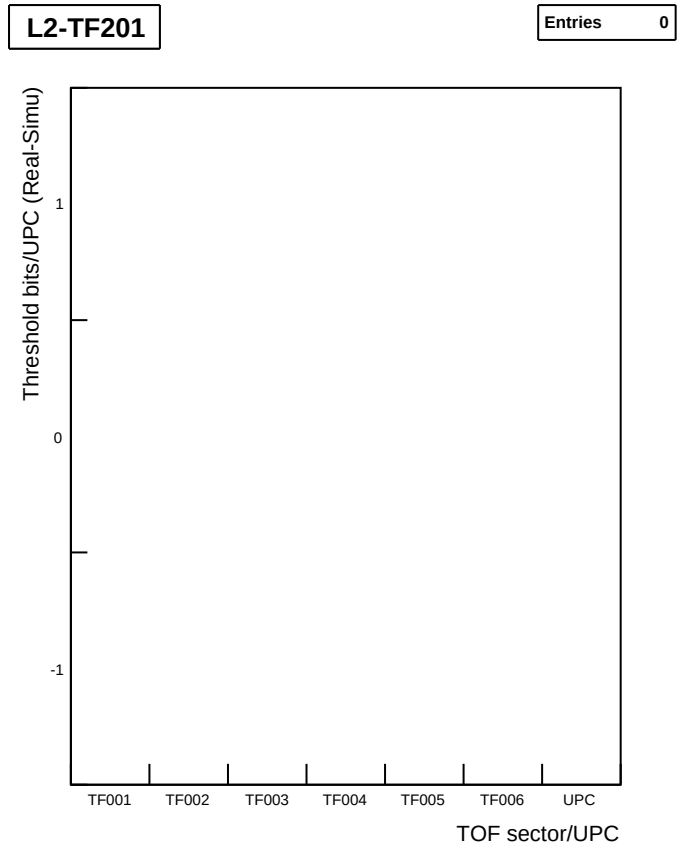

MIX-TF101
Entries 49392
TOF UPC-TH-EastHigh
5816
5425
5799
8232
8232
5391
2436
2897
2443
2941
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

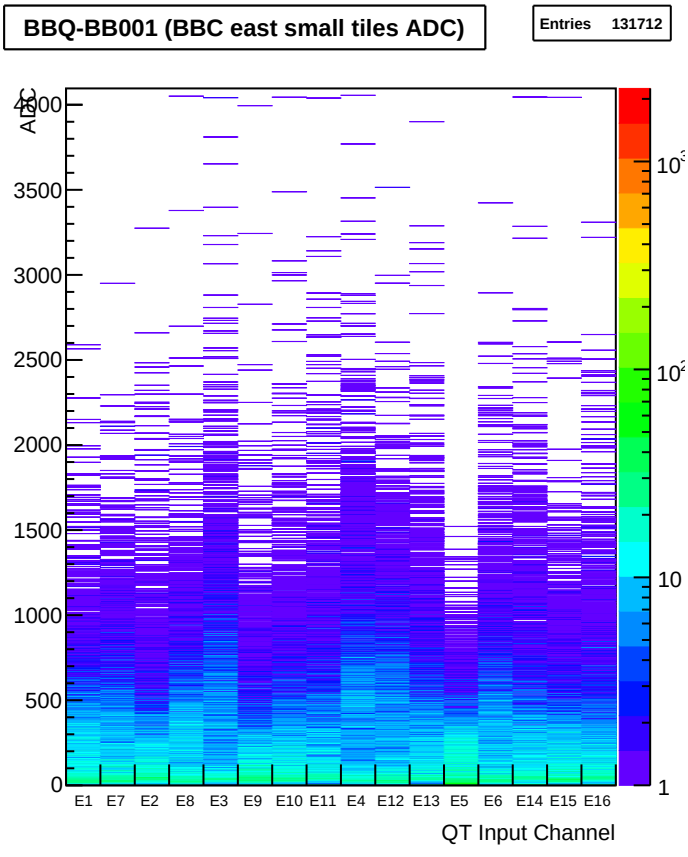

MIX-TF101
Entries 4973
TOF UPC-TH-EastHigh(Real-Simu)
2936
2607
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

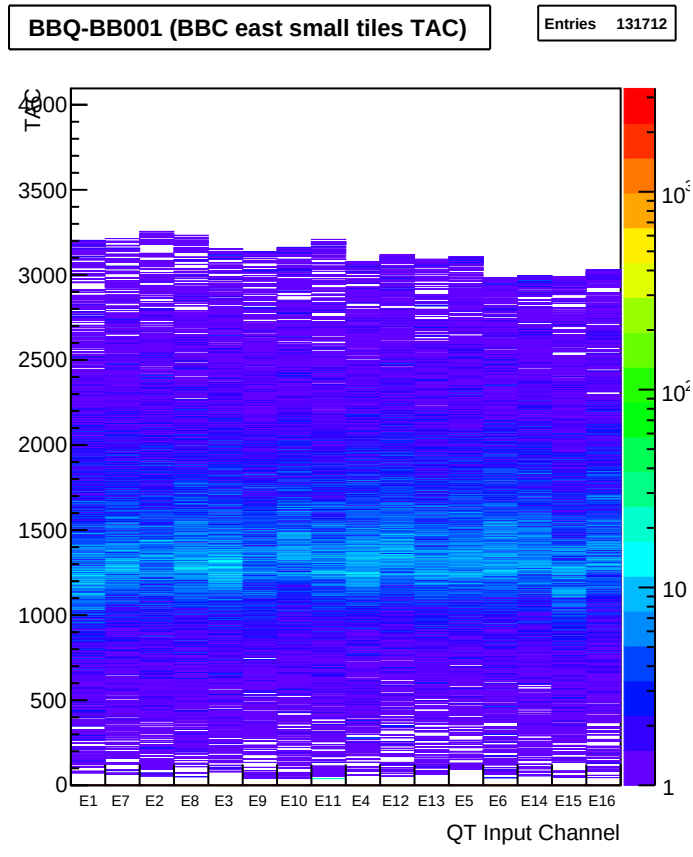

L2-TF201
Entries 8232
10^3
10^2
10
1
0 100 200 300 400 500 600 700 800
TOF total mult

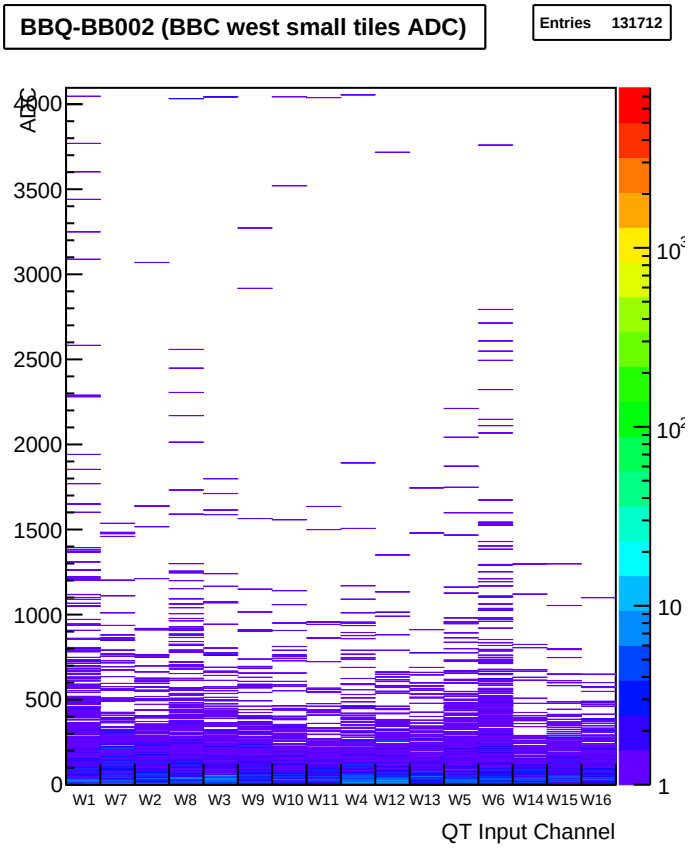

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
–800 –600 –400 –200 0 200 400 600 800
TOF total mult(Real-Simu)

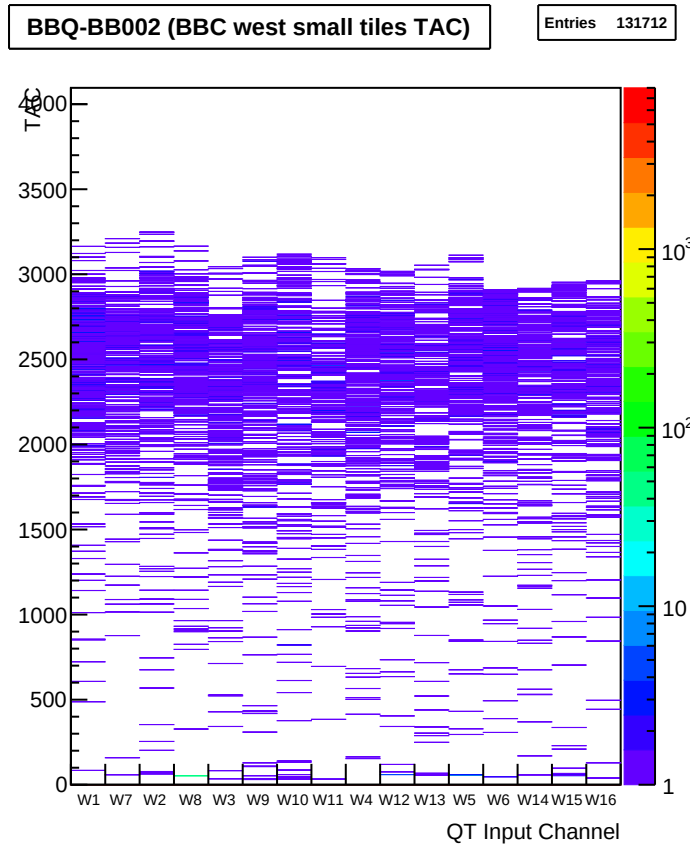

L2-TF201
Entries 57624
Threshold/UPC bits
1
0
7062 7114 6974 7154 7100 7017 8108
1170 1118 1258 1078 1132 1215 124
10^3
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

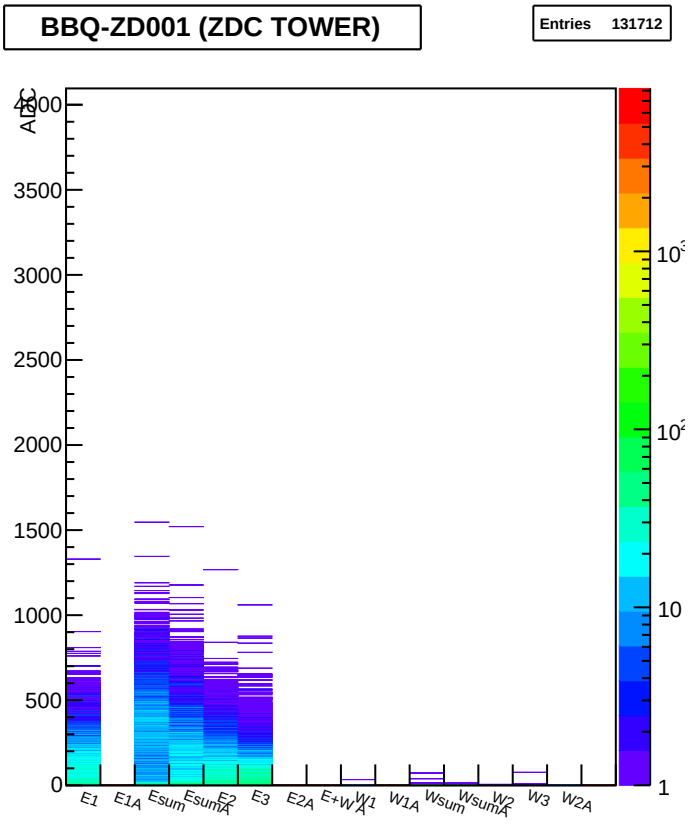

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

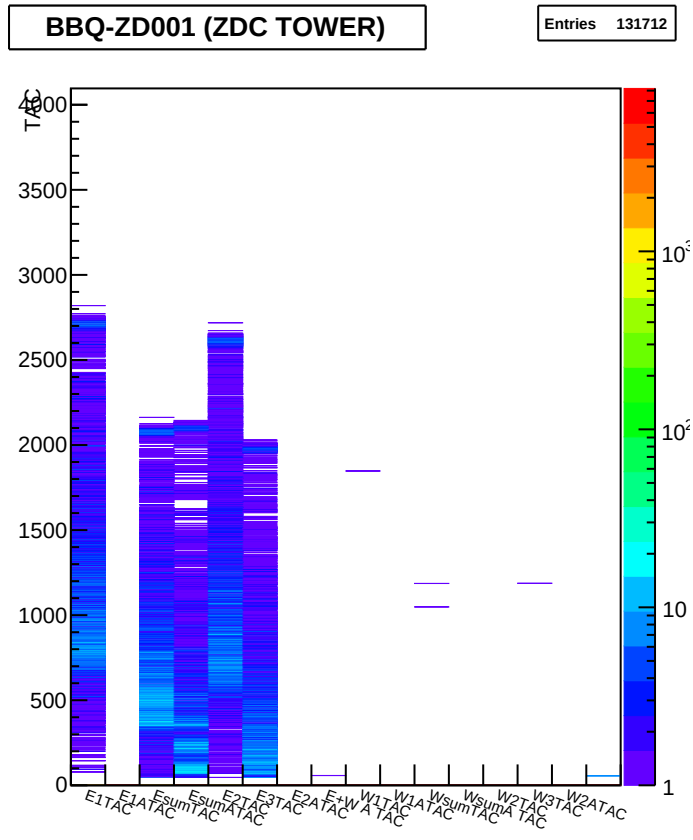

BBQ-BB001 (BBC east small tiles ADC)
Entries 131712
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

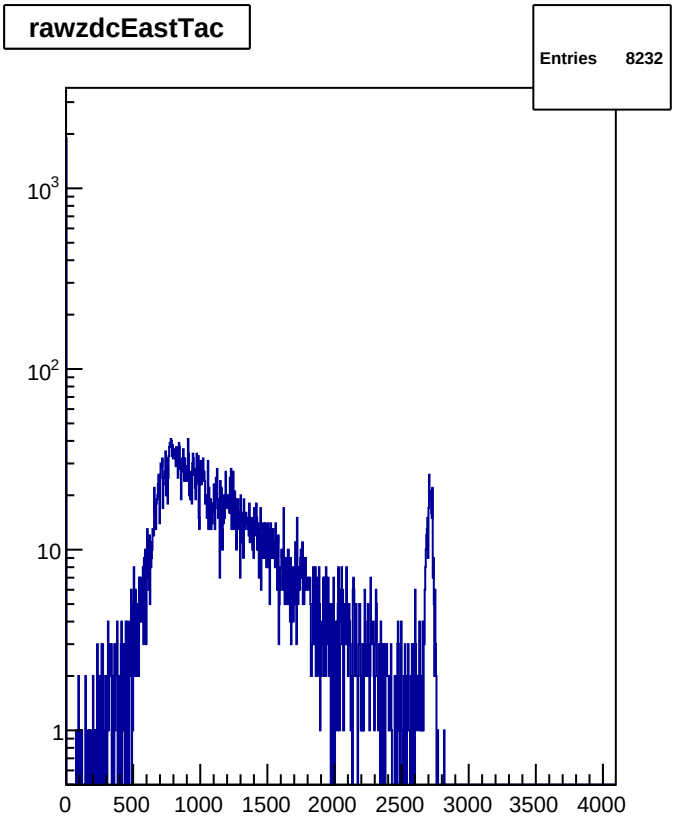

BBQ-BB001 (BBC east small tiles TAC)
Entries 131712
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

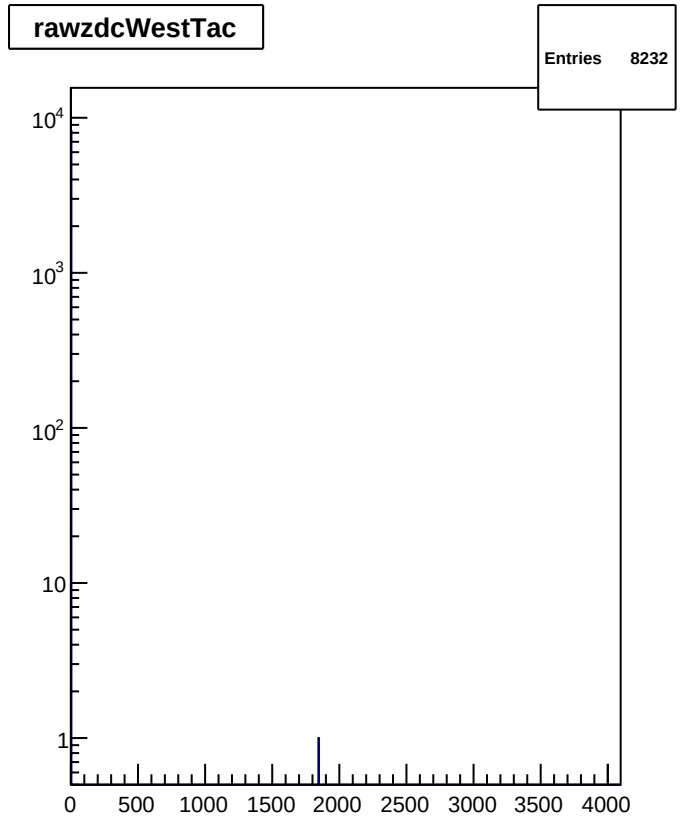

BBQ-BB002 (BBC west small tiles ADC)
Entries 131712
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

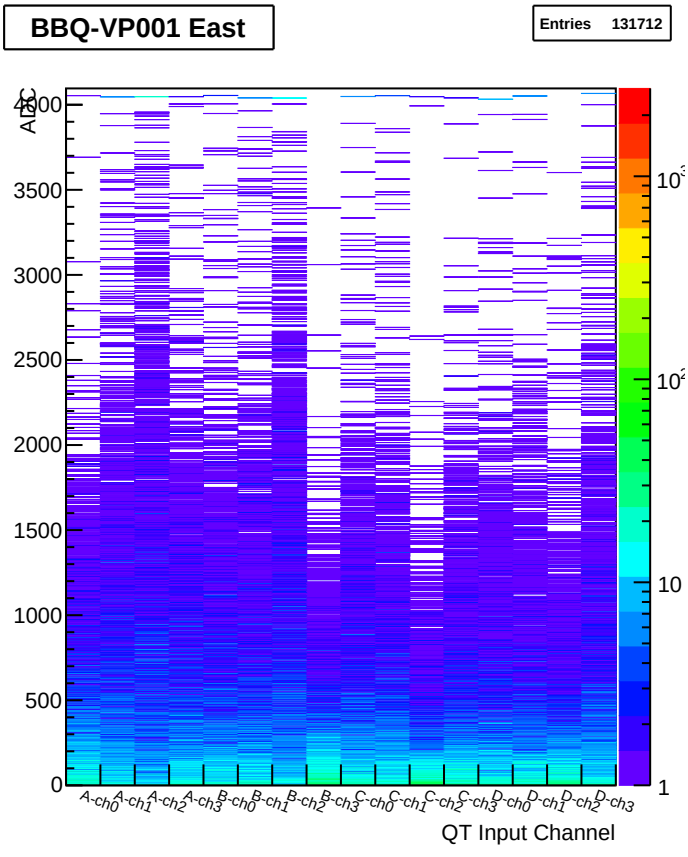

BBQ-BB002 (BBC west small tiles TAC)
Entries 131712
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

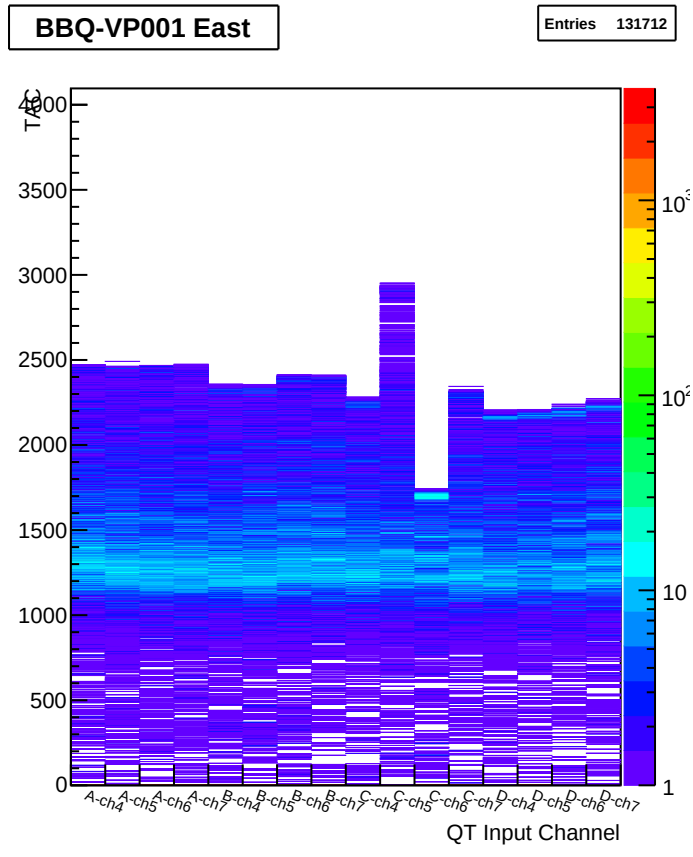

BBQ-ZD001 (ZDC TOWER)
Entries 131712
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

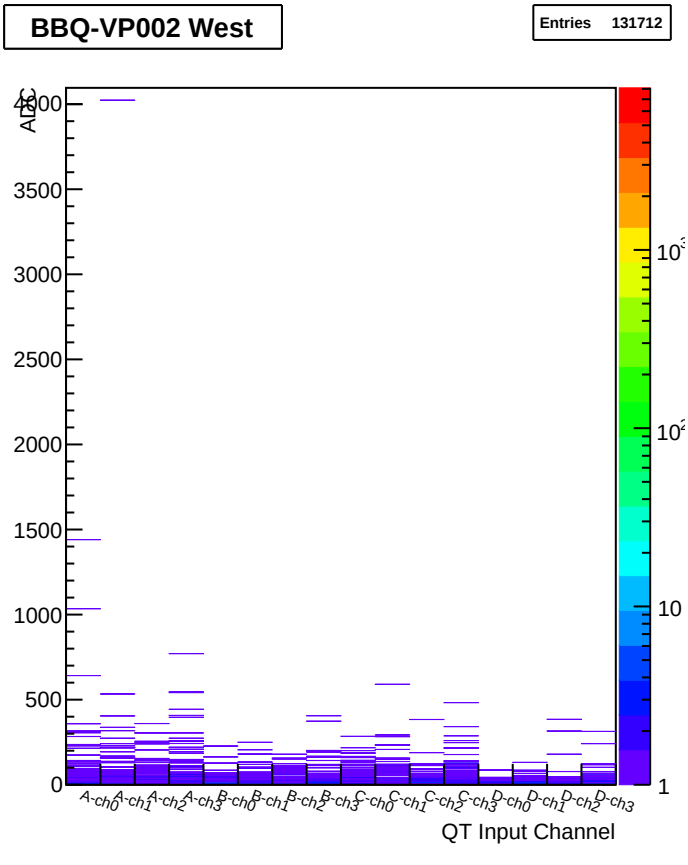

BBQ-ZD001 (ZDC TOWER)
Entries 131712
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

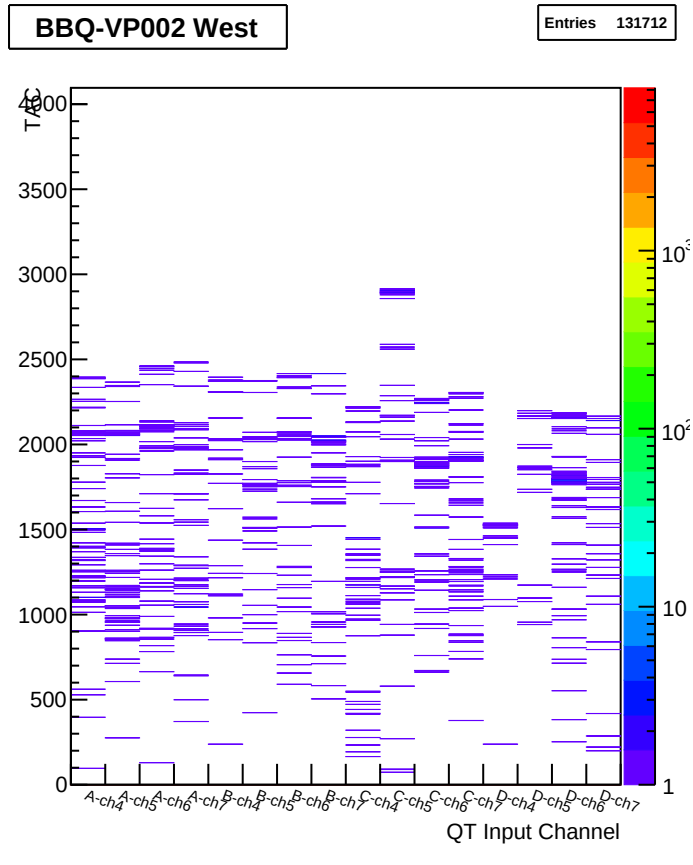

rawzdcEastTac
Entries 8232

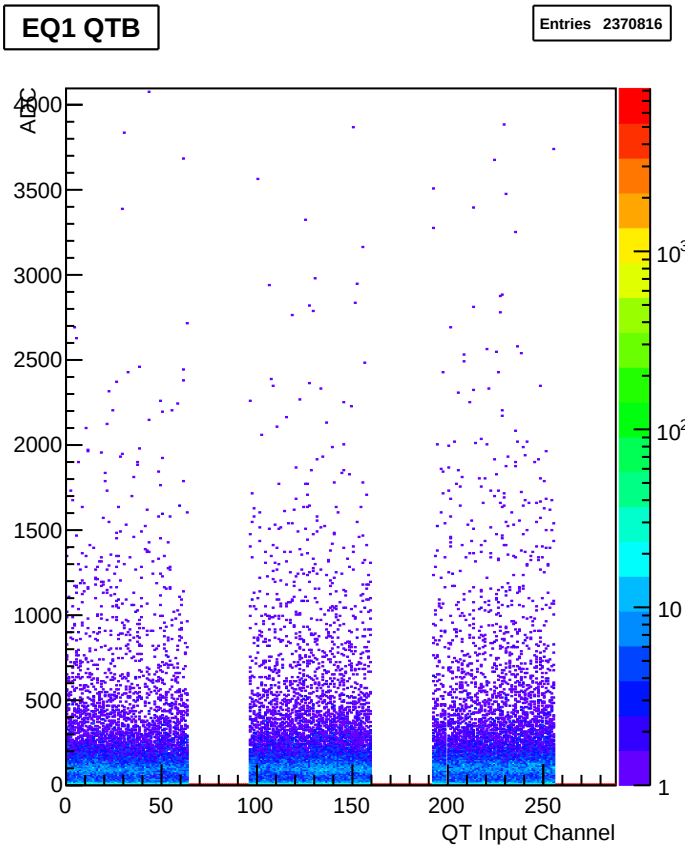

rawzdcWestTac
Entries 8232

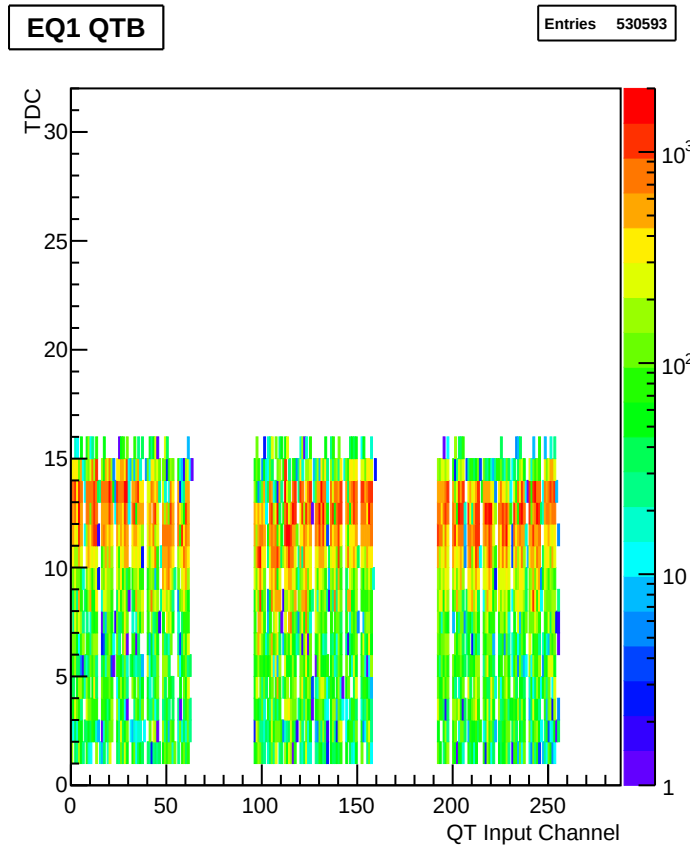

BBQ-VP001 East
Entries 131712
ADC
QT Input Channel

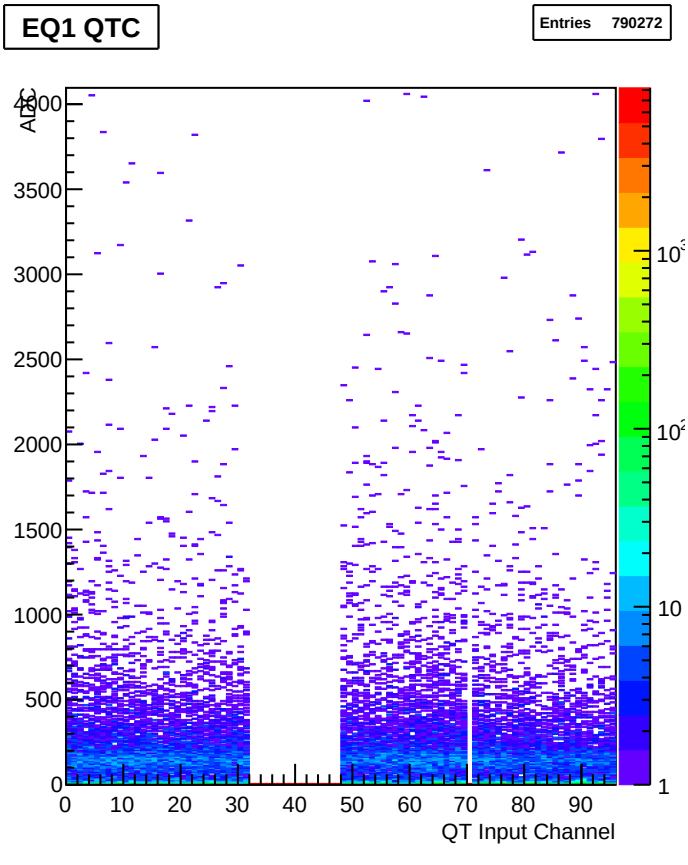

BBQ-VP001 East
Entries 131712
TADC
QT Input Channel

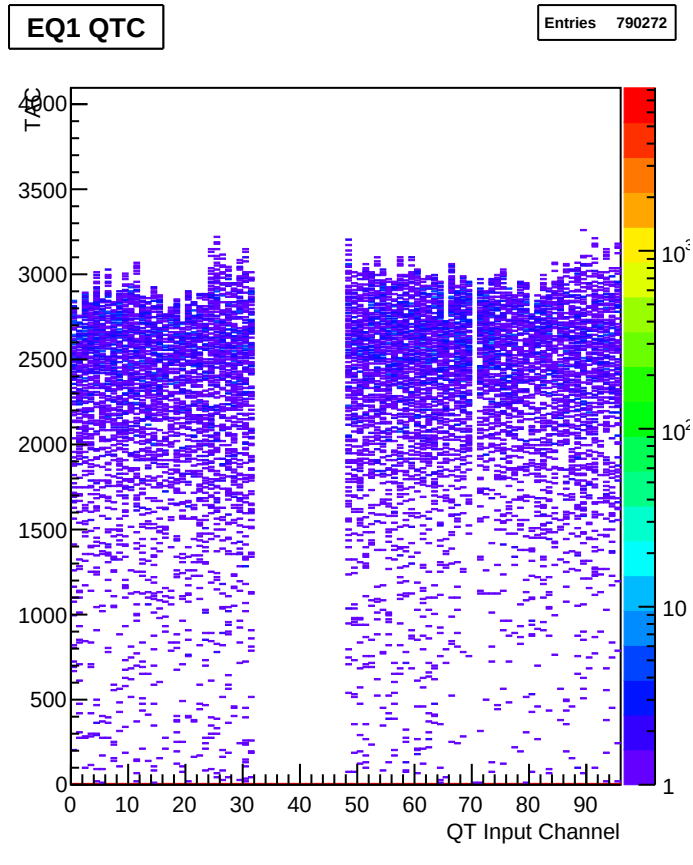

BBQ-VP002 West
Entries 131712
ADC
QT Input Channel

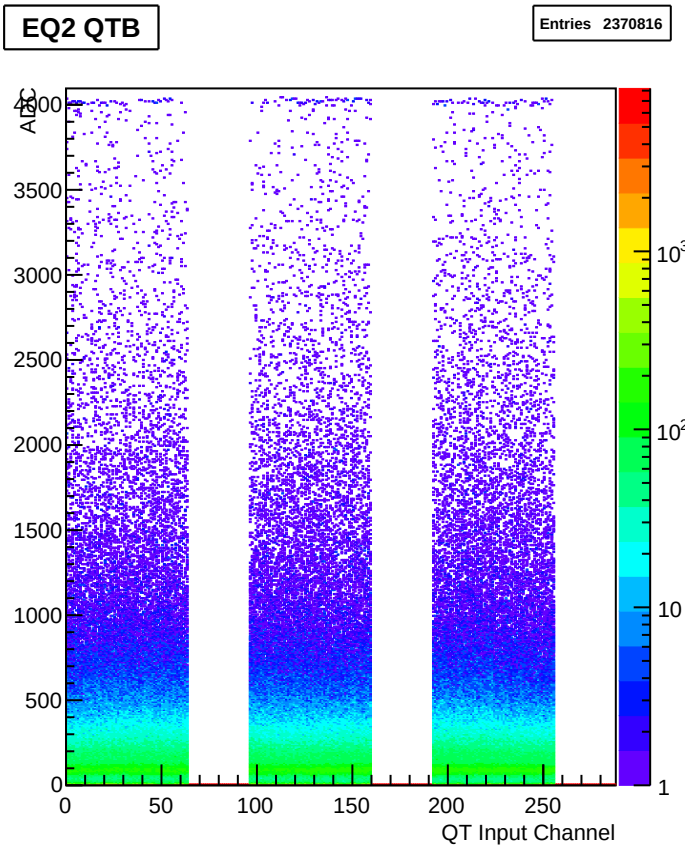

BBQ-VP002 West
Entries 131712
TADC
QT Input Channel

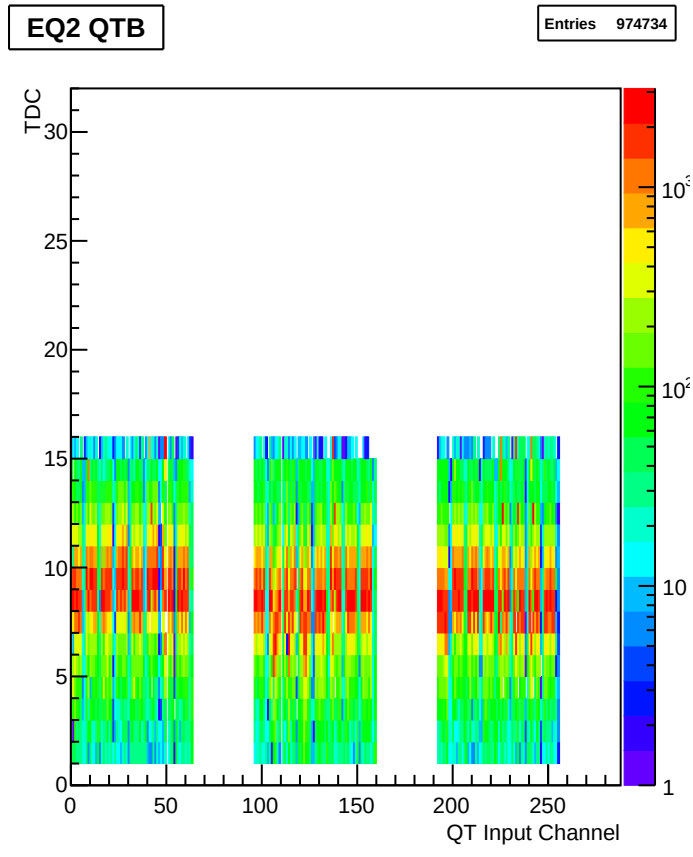

EQ1 QTB
Entries 2370816
ADC
QT Input Channel

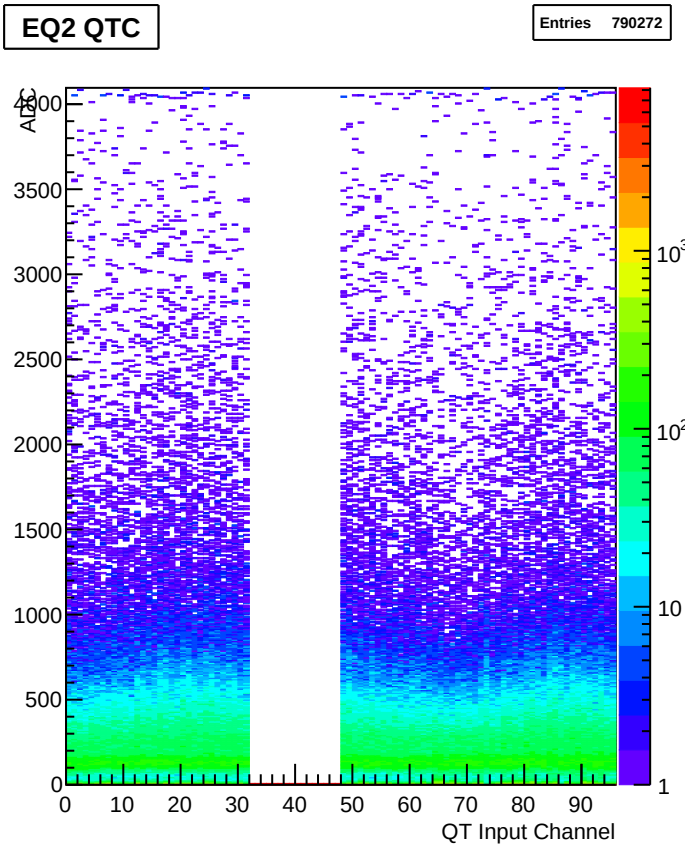

EQ1 QTB
Entries 530593
TDC
QT Input Channel

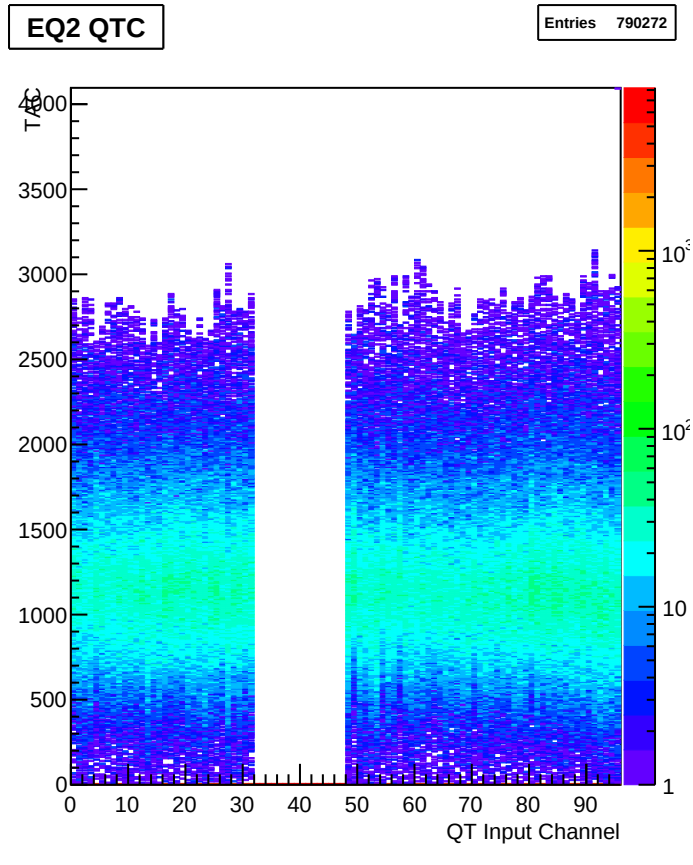

EQ1 QTC
Entries 790272
ADC
QT Input Channel

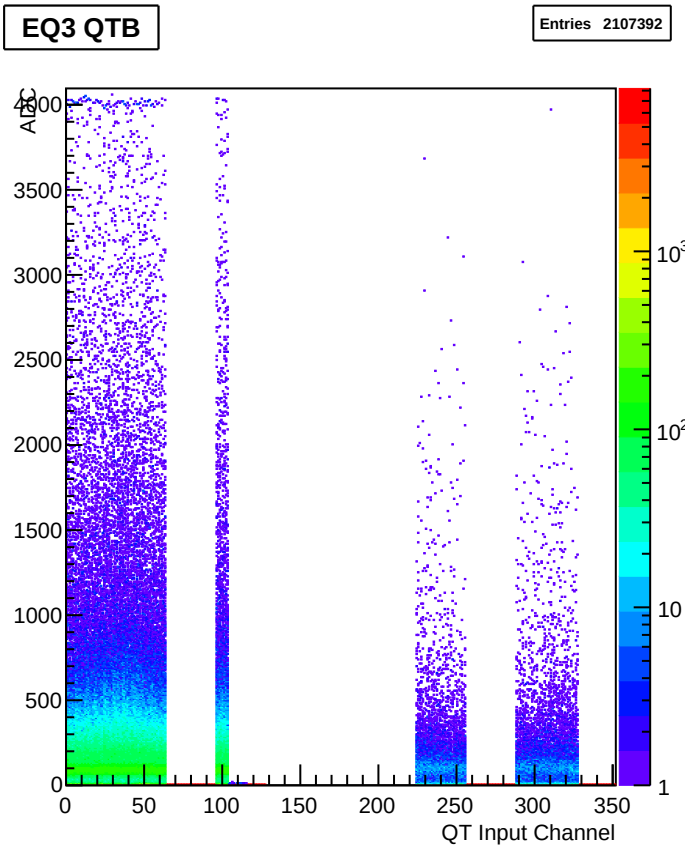

EQ1 QTC
Entries 790272
TADC
QT Input Channel


EQ2 QTB
Entries 2370816
ADC
QT Input Channel


EQ2 QTB
Entries 974734
TDC
QT Input Channel


EQ2 QTC
Entries 790272
ADC
QT Input Channel


EQ2 QTC
Entries 790272
TADC
QT Input Channel


EQ3 QTB
Entries 2107392
ADC
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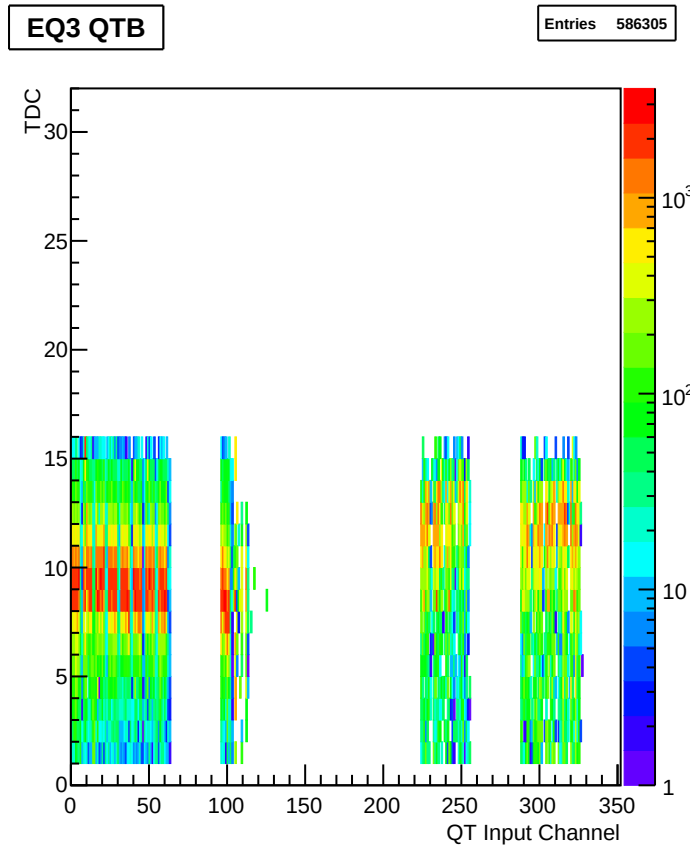
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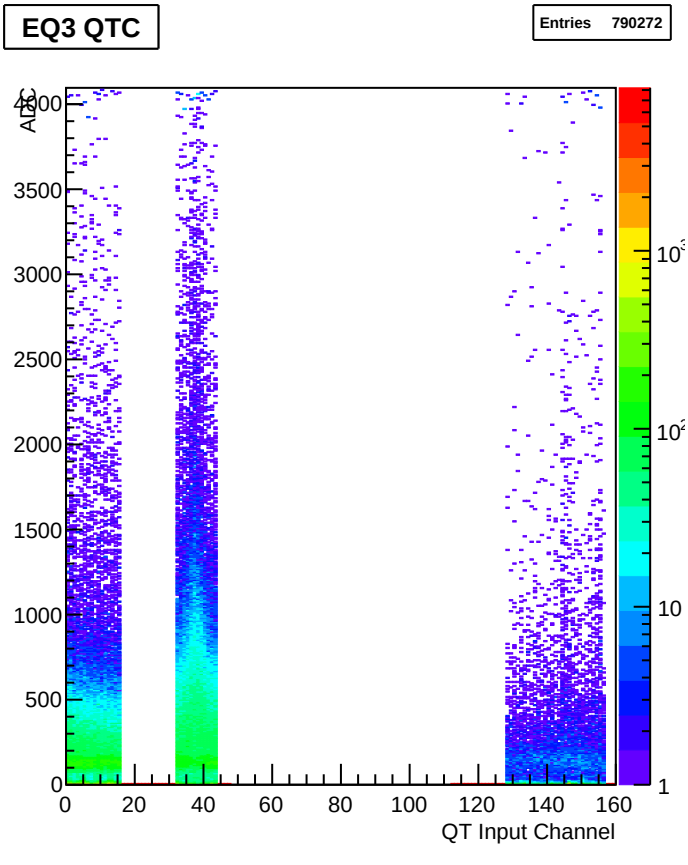
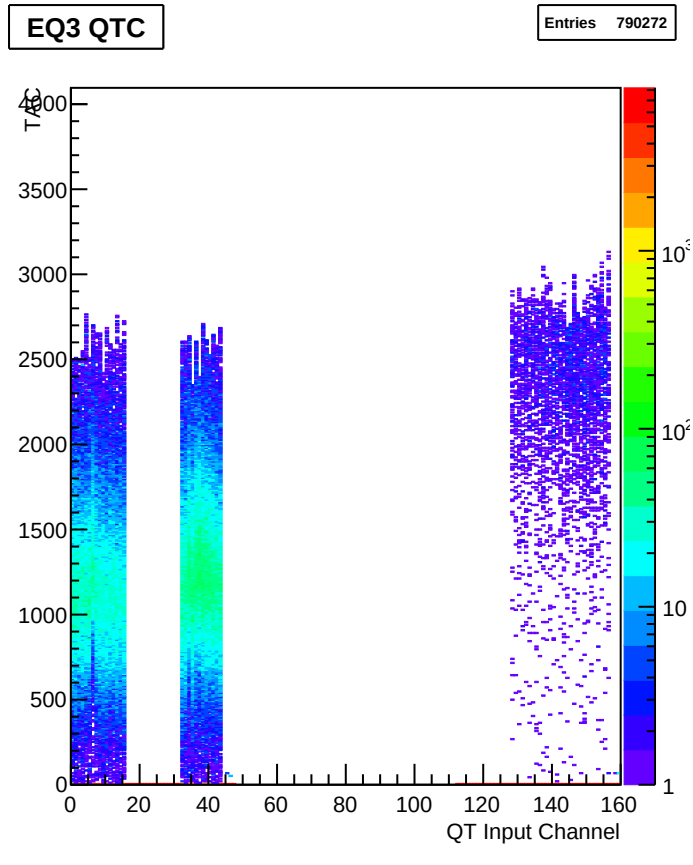
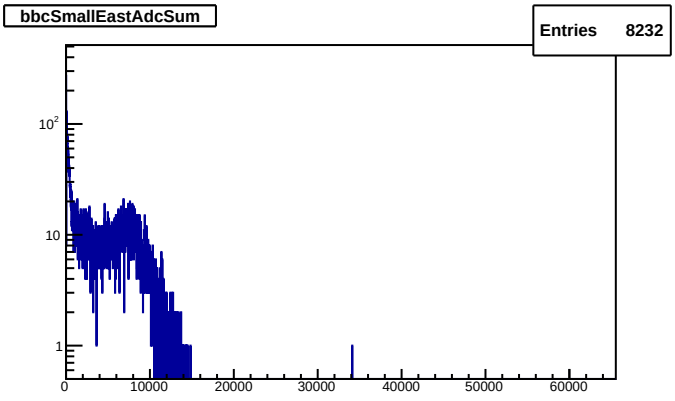
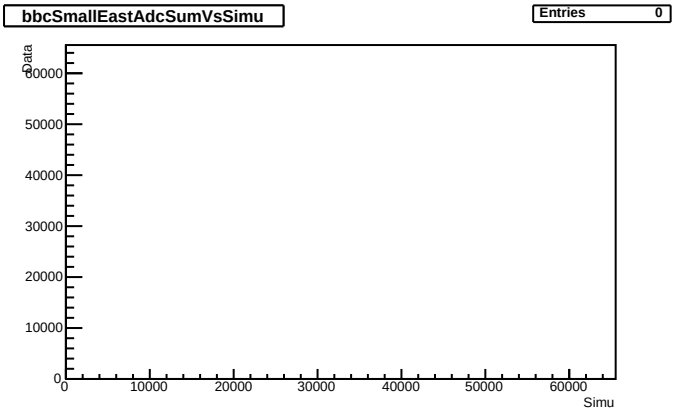
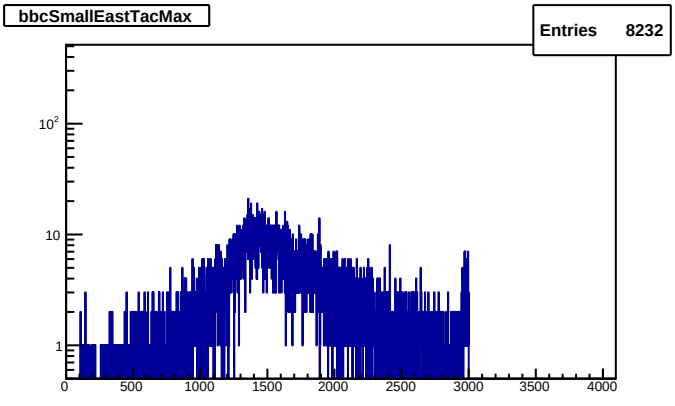
Entries 586305
TDC
QT Input Channel

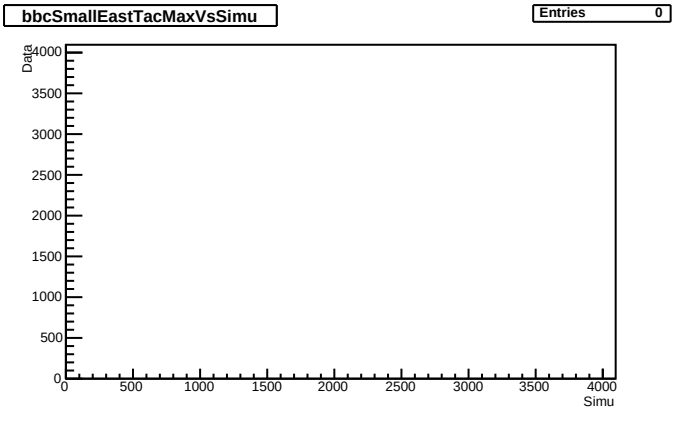

EQ3 QTC
Entries 790272
ADC
QT Input Channel

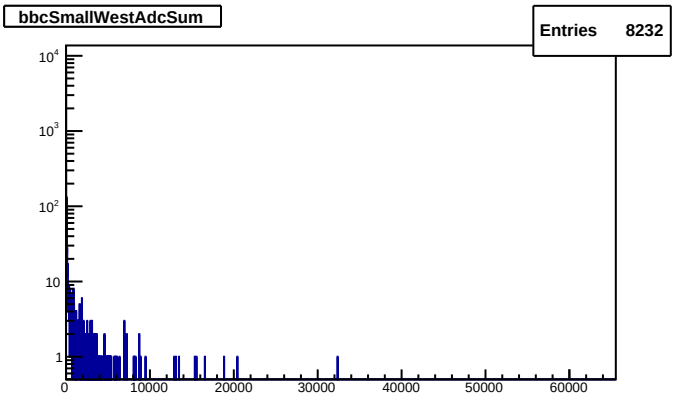

EQ3 QTC
Entries 790272
TADC
QT Input Channel

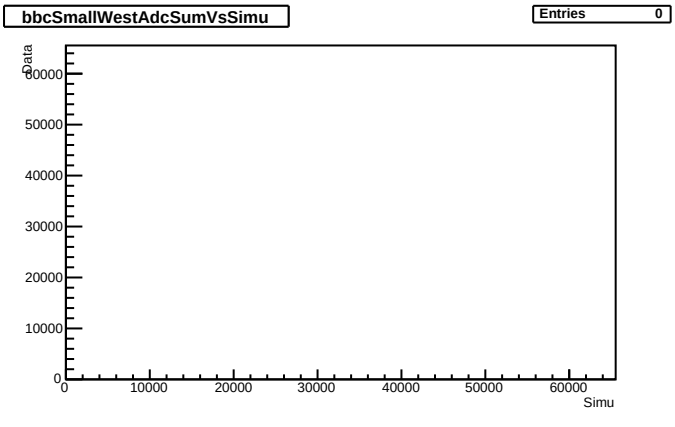

bbcSmallEastAdcSum
Entries 8232

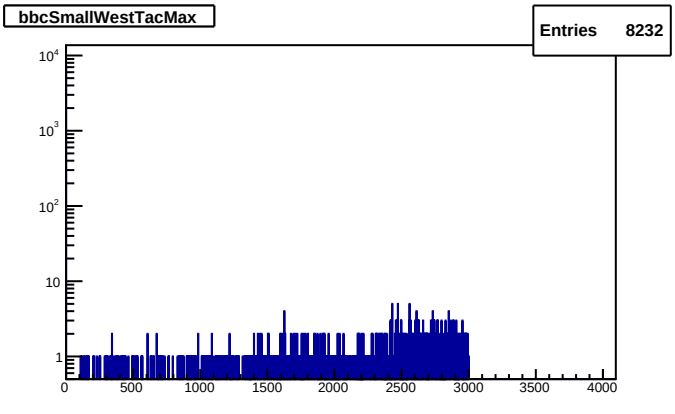

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 8232


bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 8232


bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu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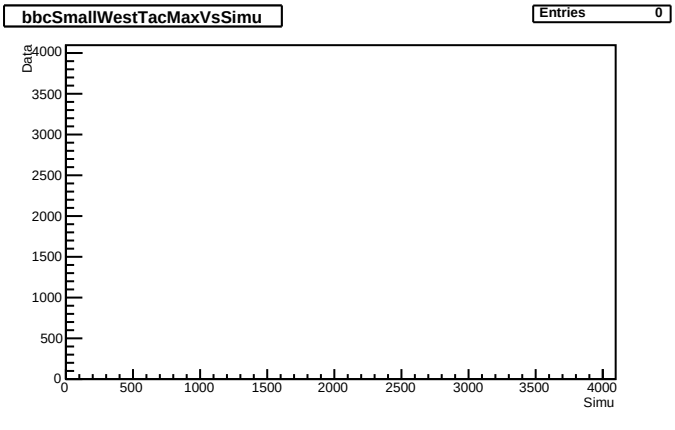
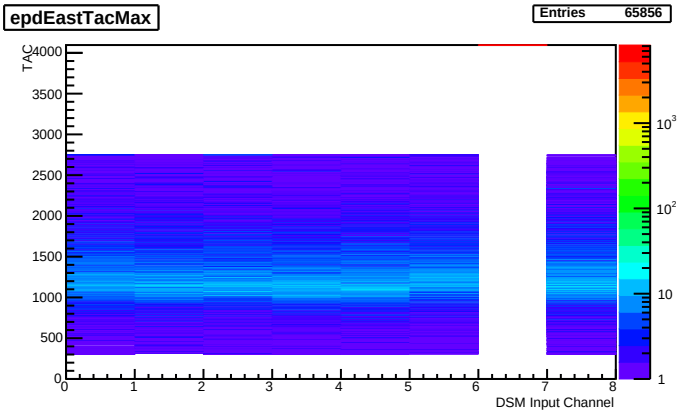
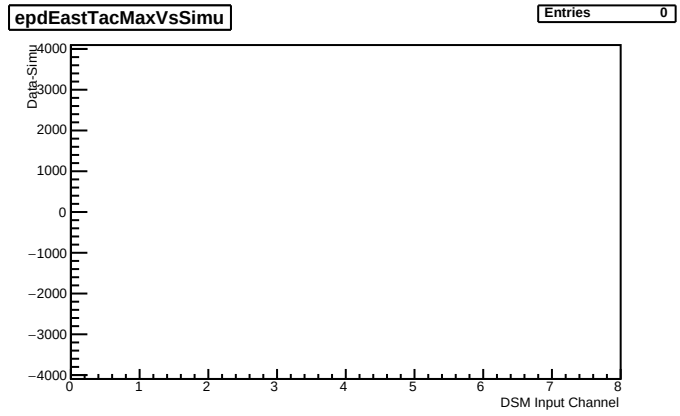
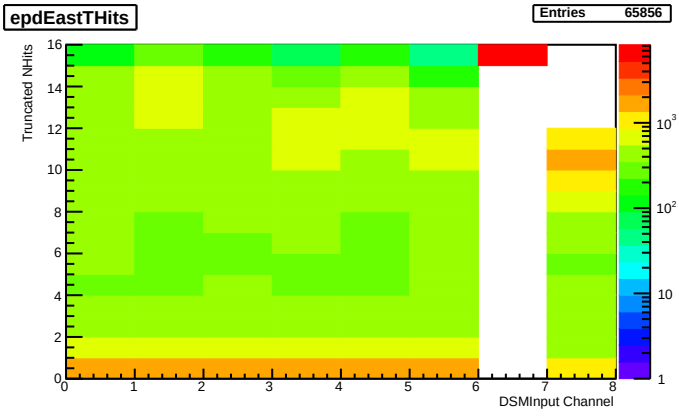
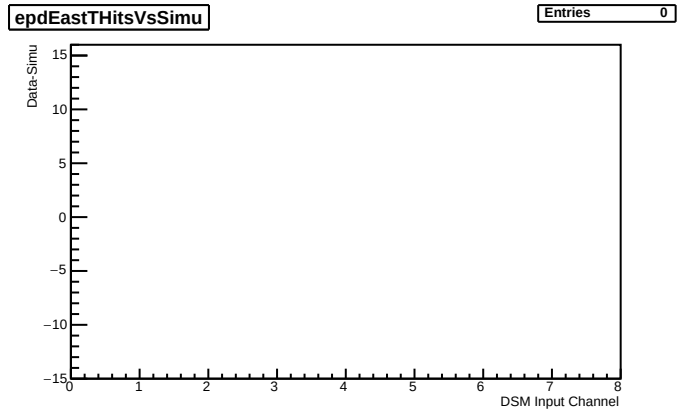
Entries 8232

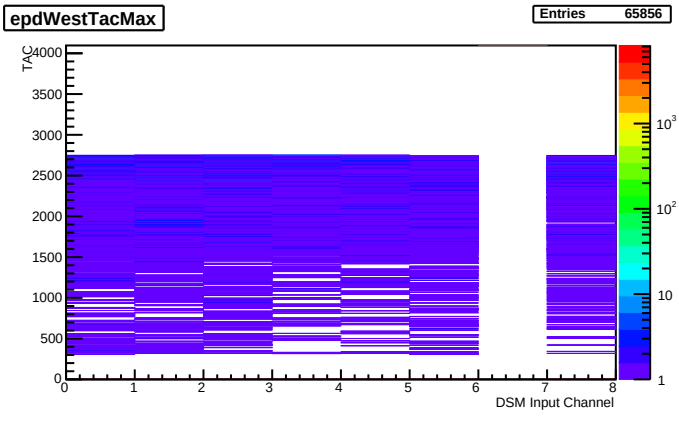

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

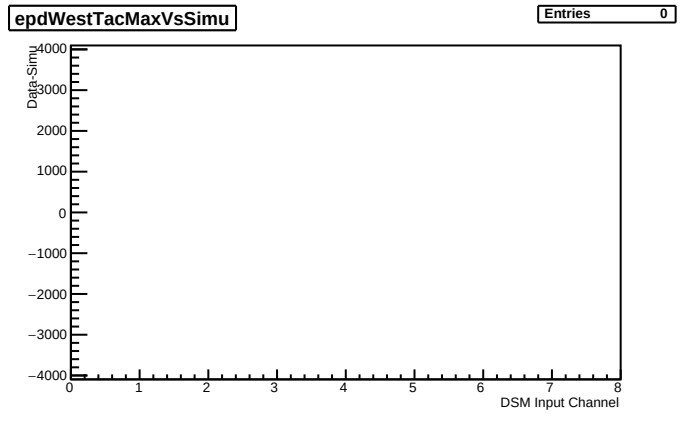

epdEastTacMax
Entries 65856
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 65856
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 65856
TAC
DSM Input Channel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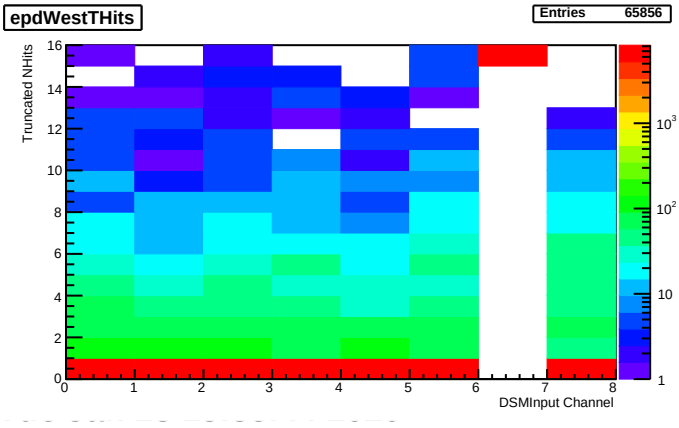
Entries 0
Data-Simu
DSM Input Channel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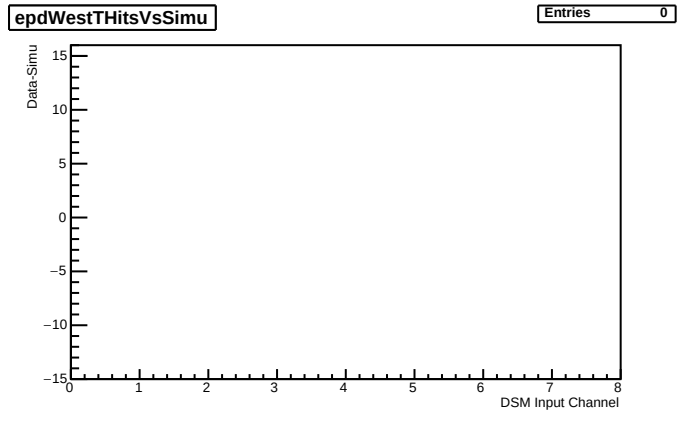
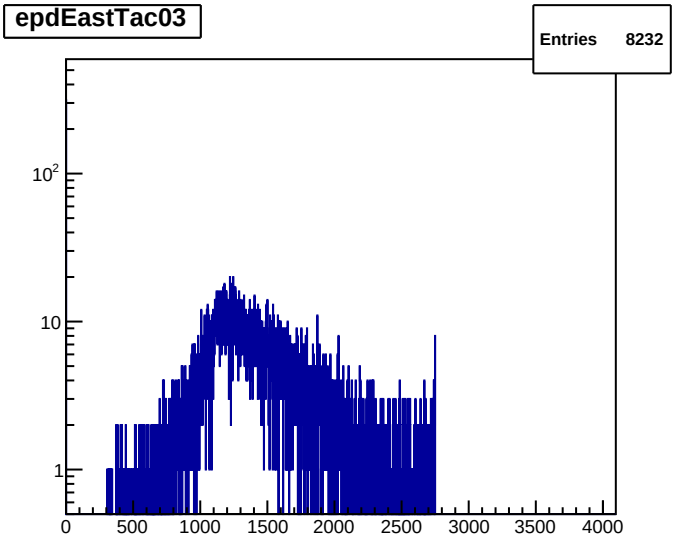
Entries 65856
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 8232
10^2
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1
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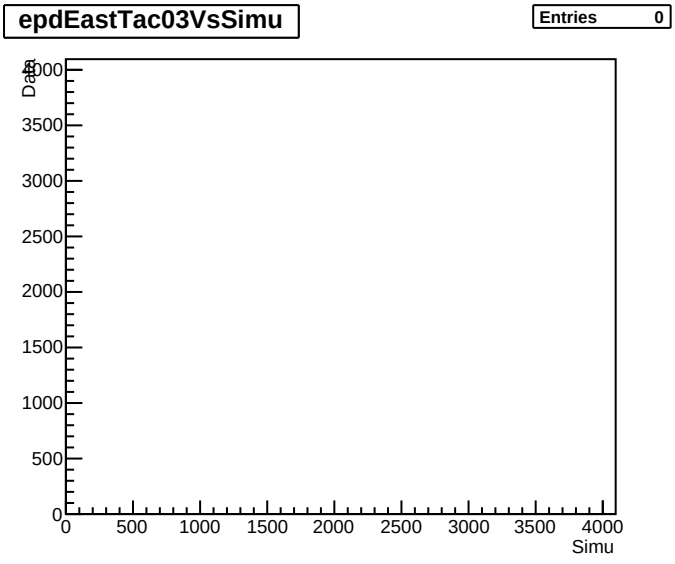
epdEastTac03VsSimu
Entries 0
Data
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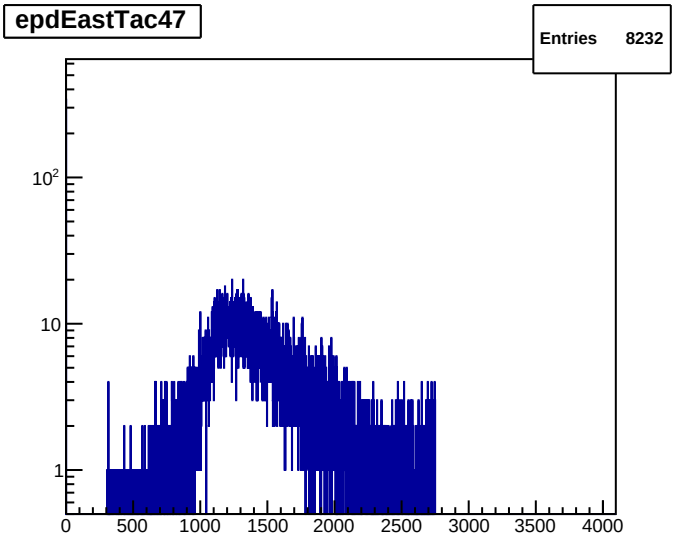
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastTac47
Entries 8232
10^2
10
1
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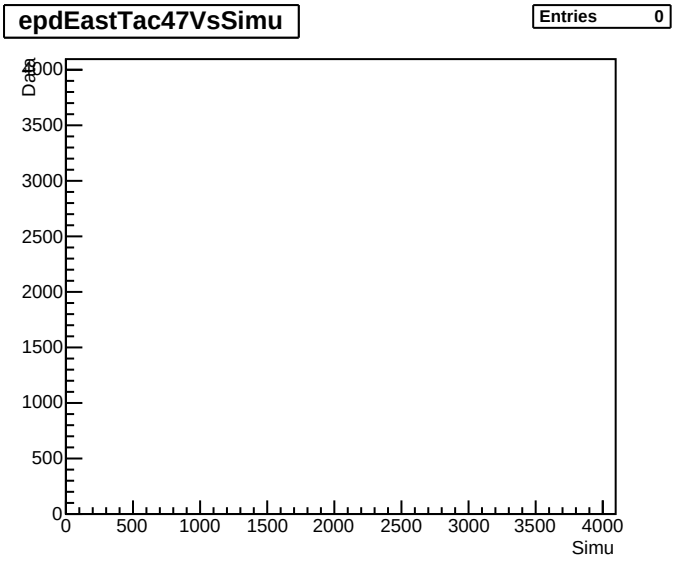
epdEastTac47VsSimu
Entries 0
Data
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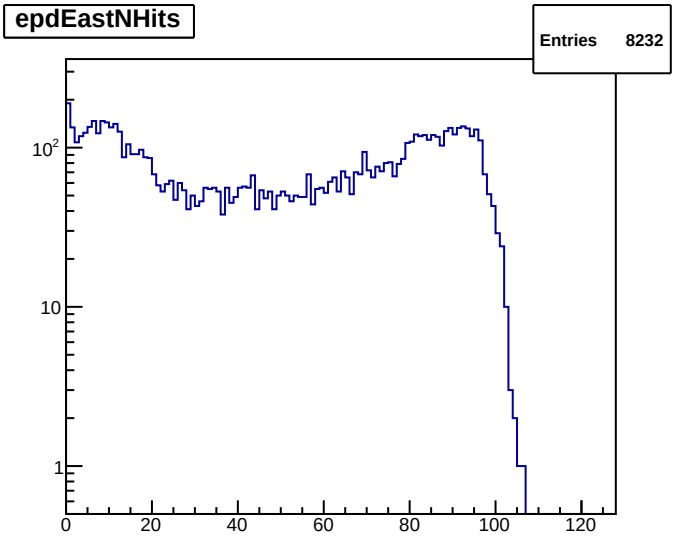
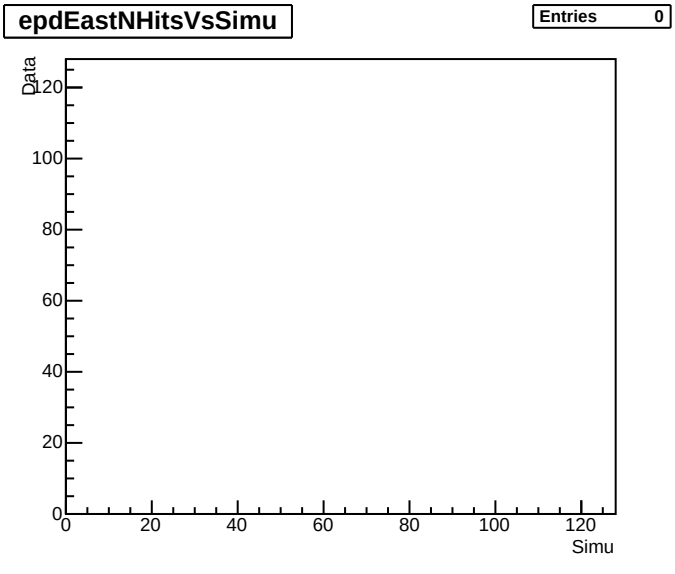
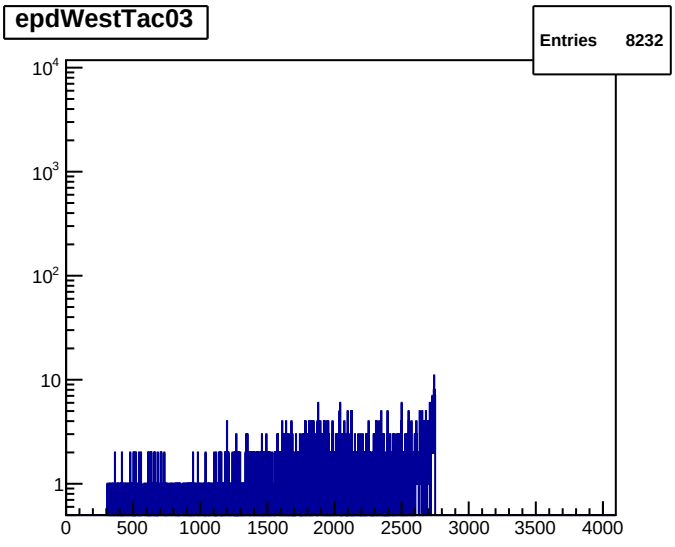
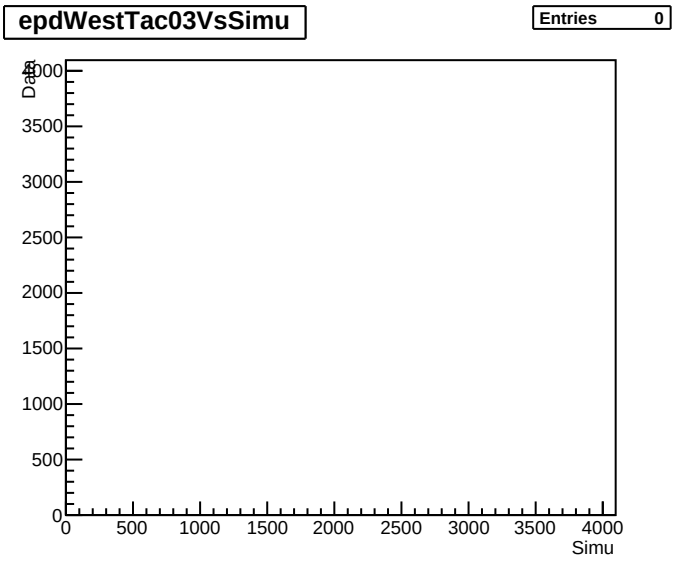
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastNHits
Entries 8232
10^2
10
1
0 20 40 60 80 100 120


epdEastNHitsVsSimu
Entries 0
Data
120 100 80 60 40 20 0
0 20 40 60 80 100 120
Simu


epdWestTac03
Entries 8232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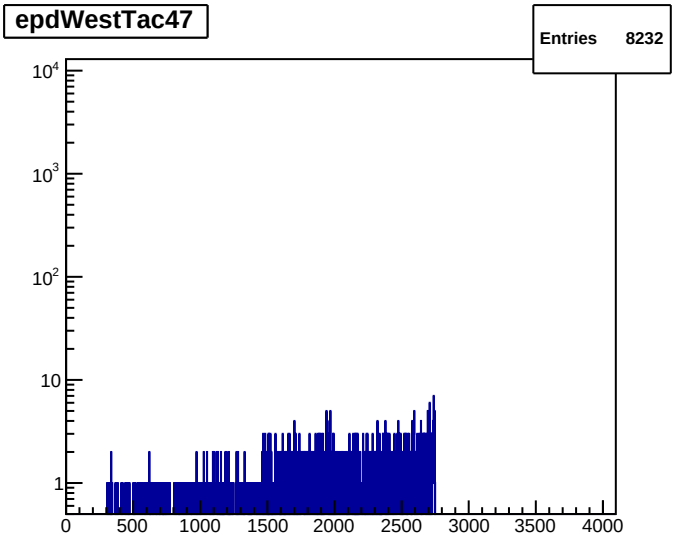
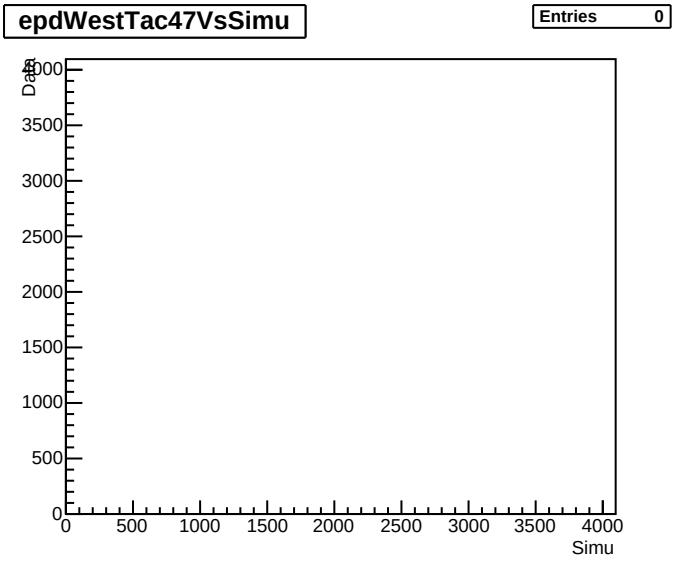
Entries 0
Data
Simu


epdWestTac47
Entries 8232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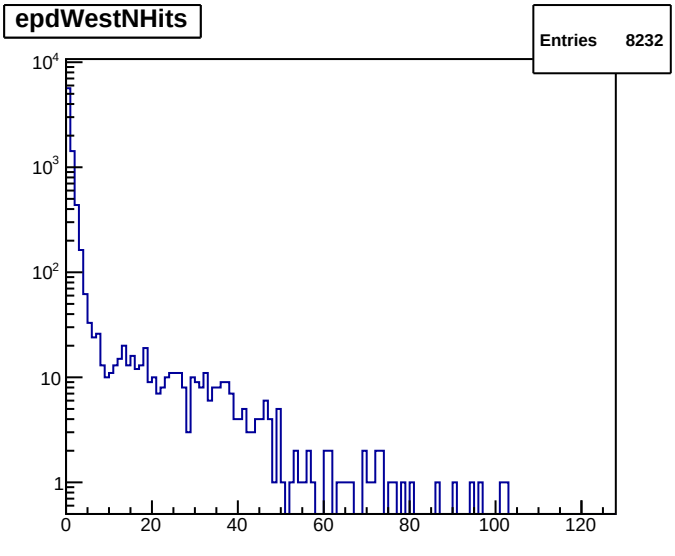
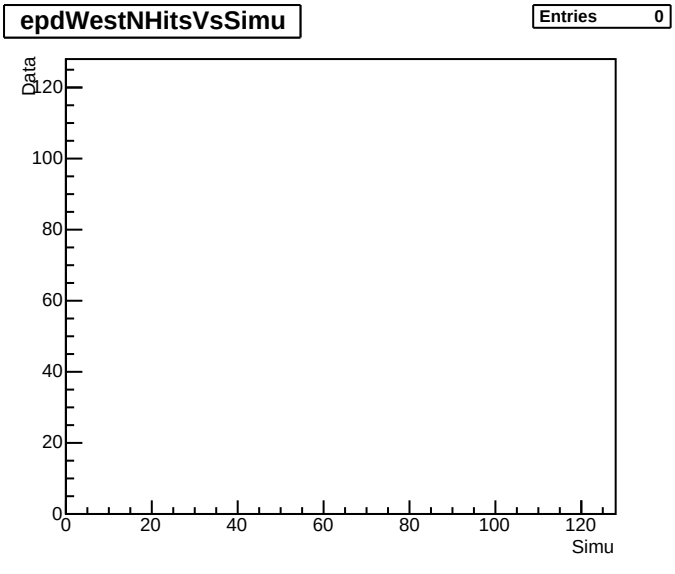
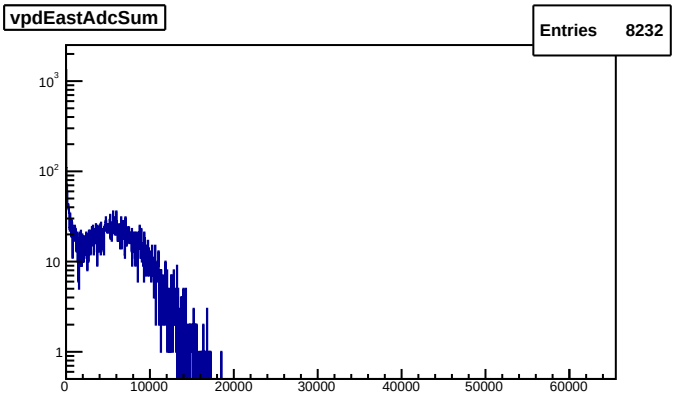
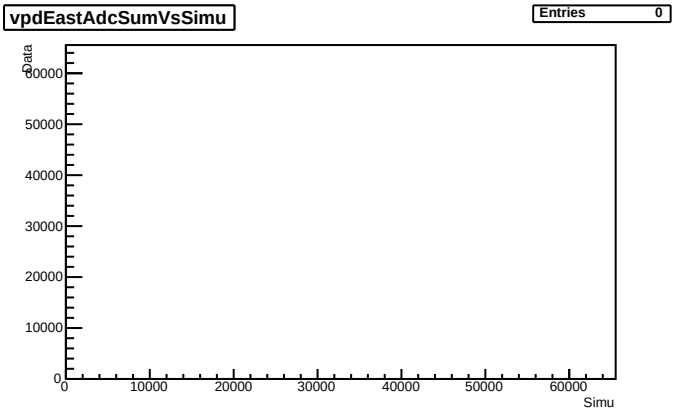
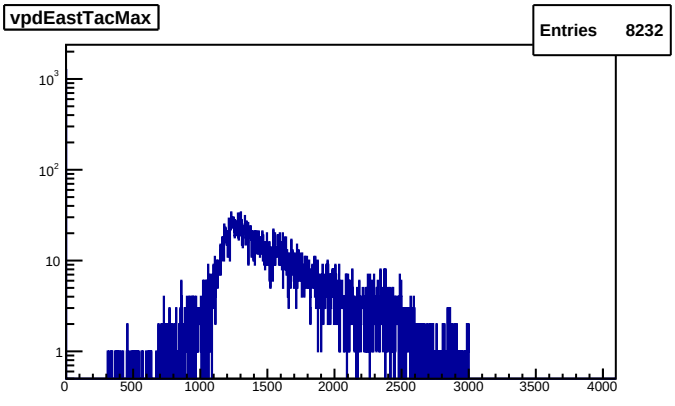
Entries 0
Data
Simu

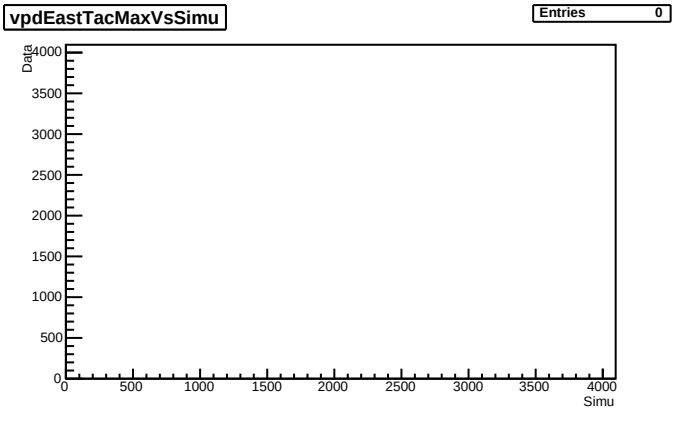

epdWestNHits
Entries 8232

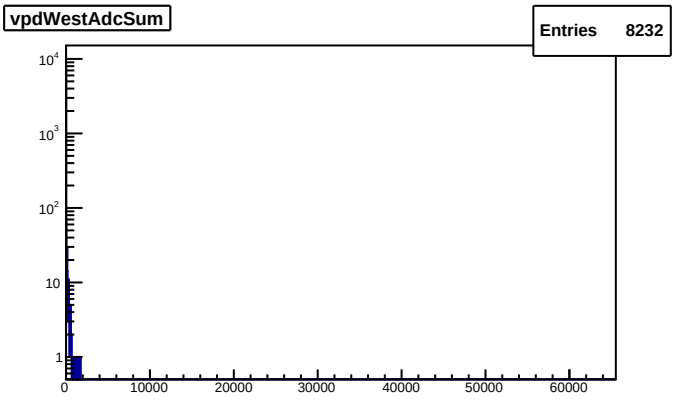

epdWestNHitsVsSimu
Entries 0
Data
Simu

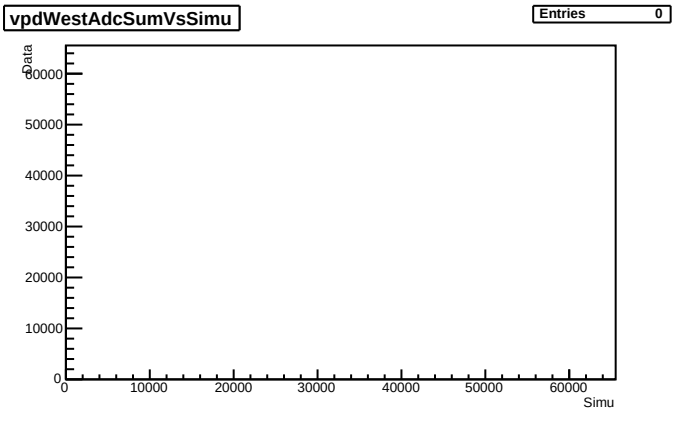

vpdEastAdcSum
Entries 8232

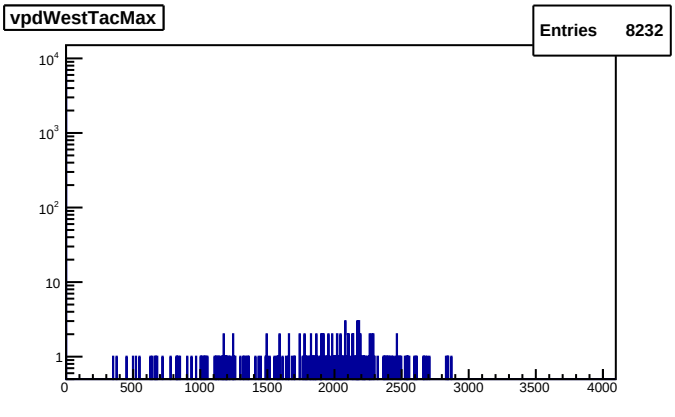

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

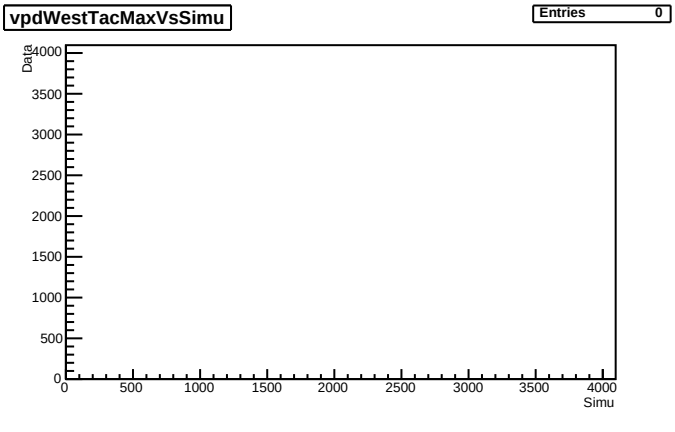

vpdEastTacMax
Entries 8232

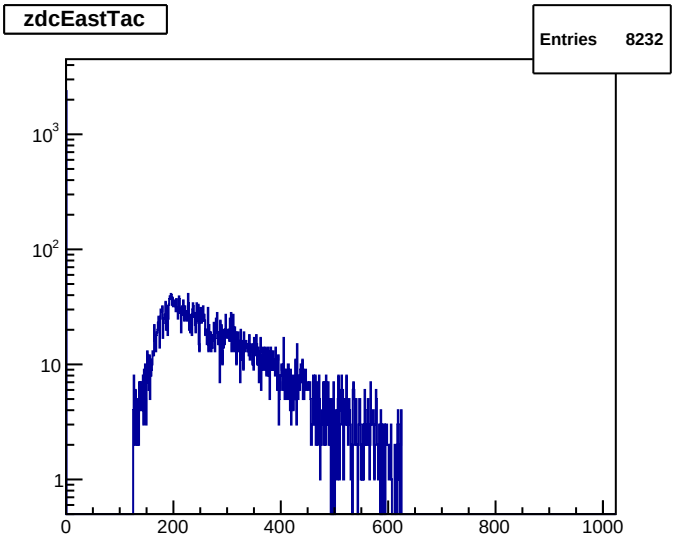

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

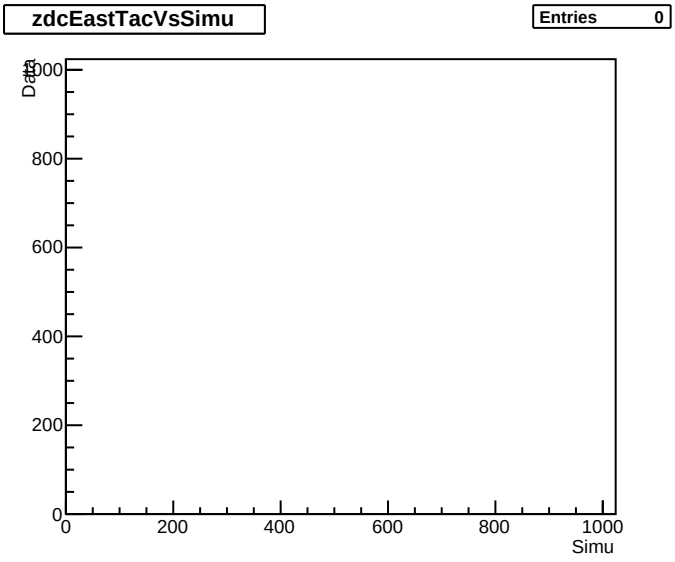

vpdWestAdcSum
Entries 8232

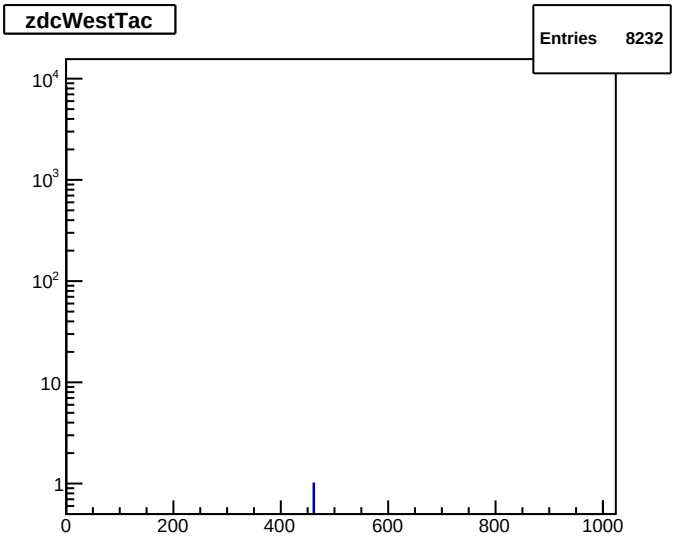

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

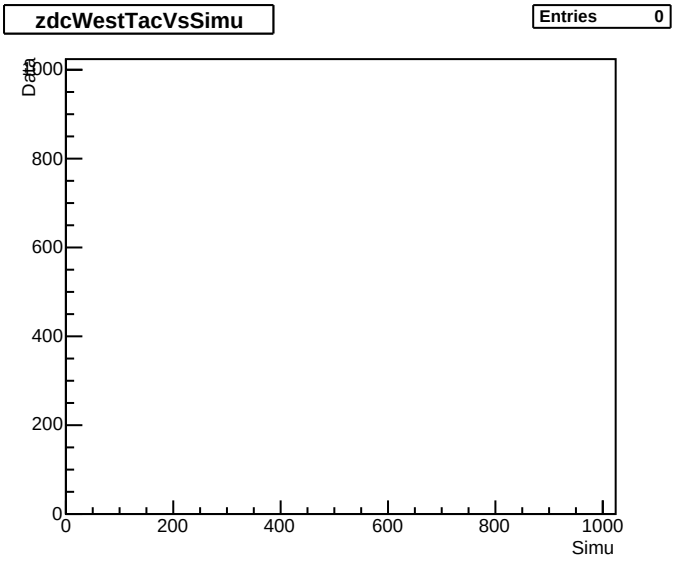

vpdWestTacMax
Entries 8232

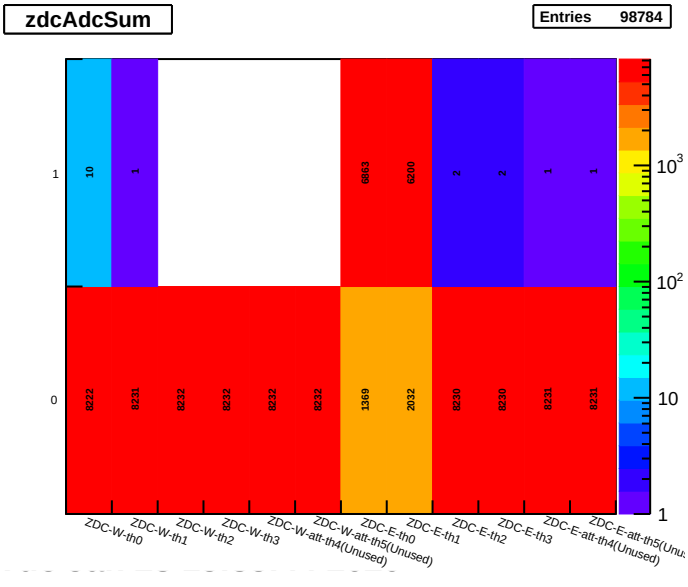

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

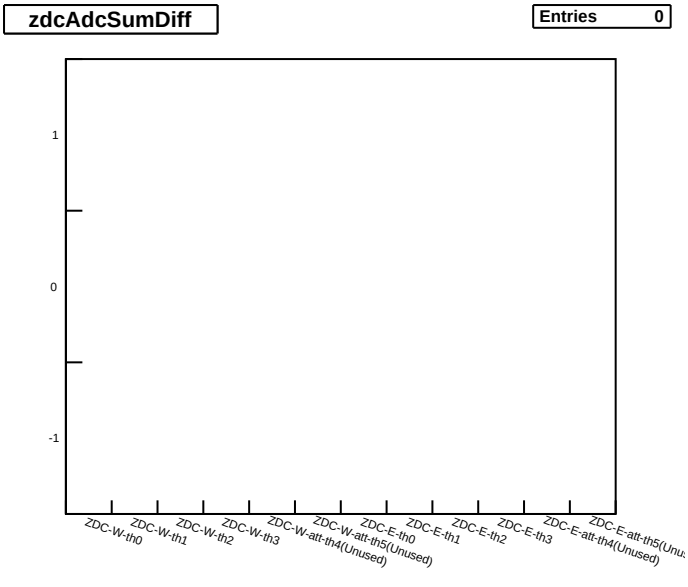

zdcEastTac
Entries 8232
10^3
10^2
10
1
0
200
400
600
800
1000

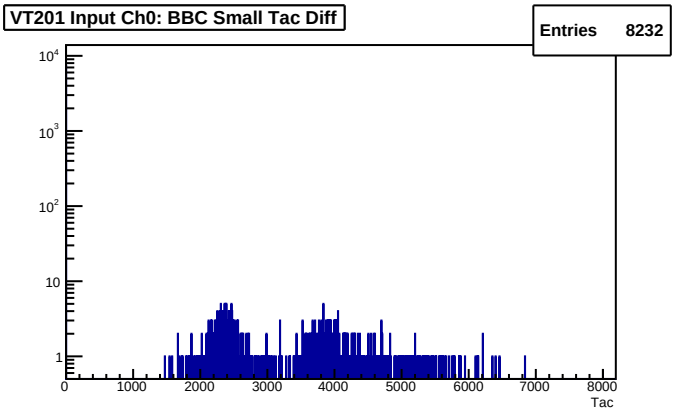

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

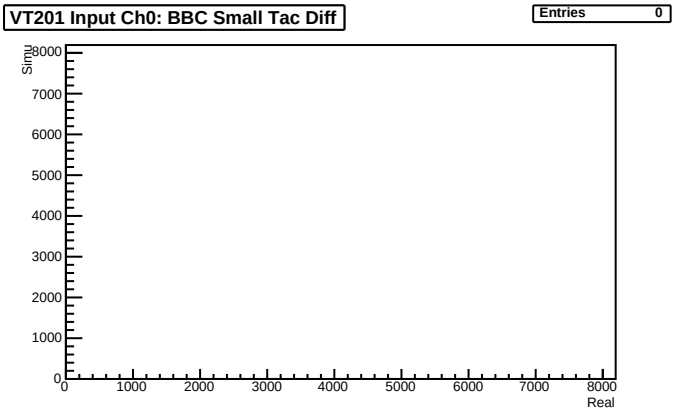

zdcWestTac
Entries 8232
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

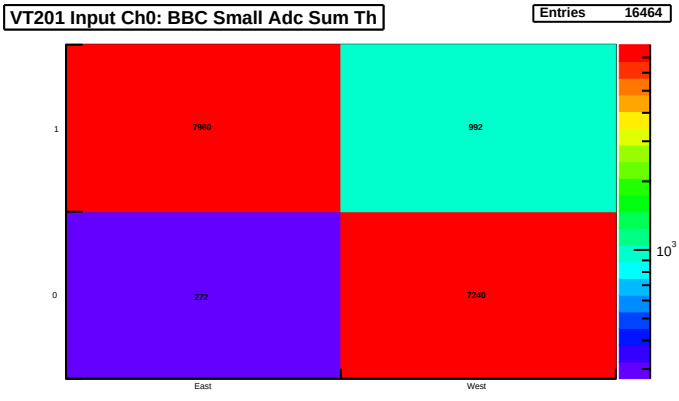

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

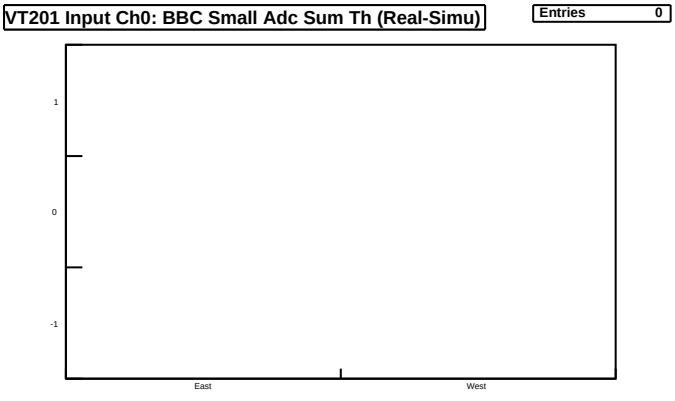

zdcAdcSum
Entries 98784
1
0
10
1
6863
6200
2
2
1
1
8222
8231
8232
8232
8232
8232
1369
2032
8230
8230
8231
8231
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

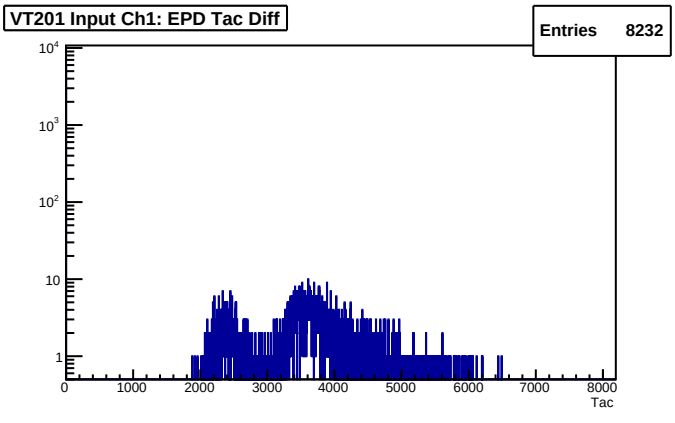

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

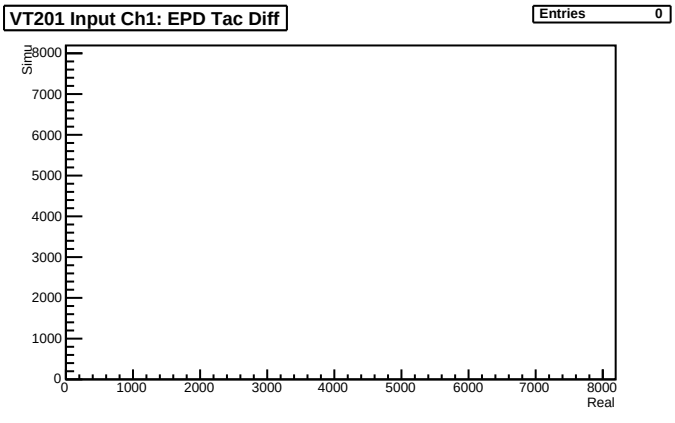

VT201 Input Ch0: BBC Small Tac Diff
Entries 8232
Tac

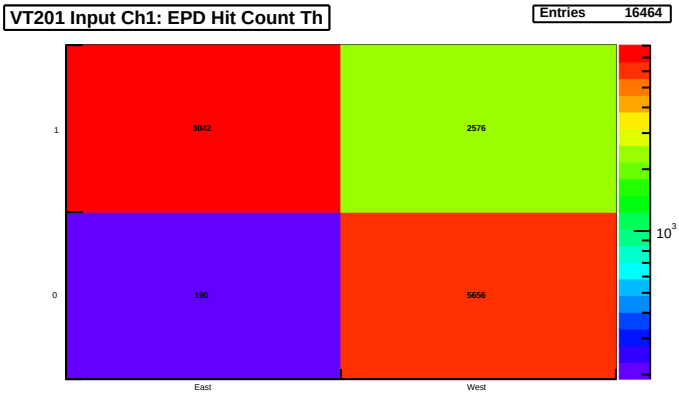

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

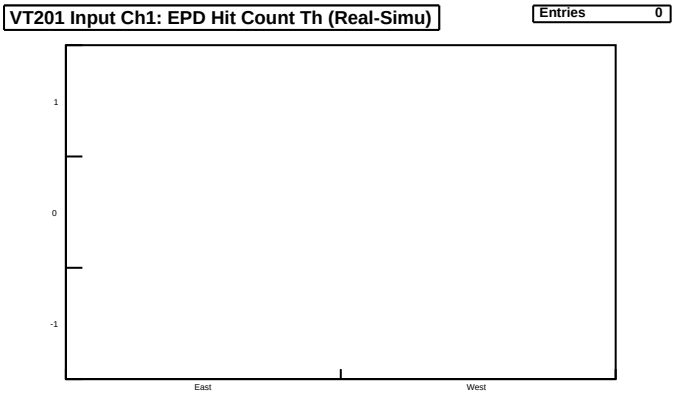

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 16464
7960
992
272
7240
East
West

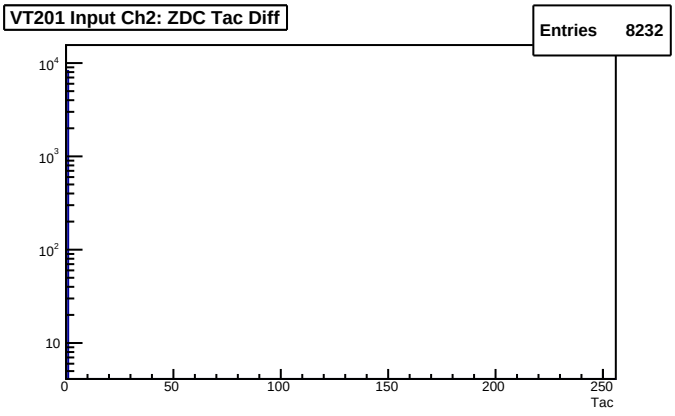

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

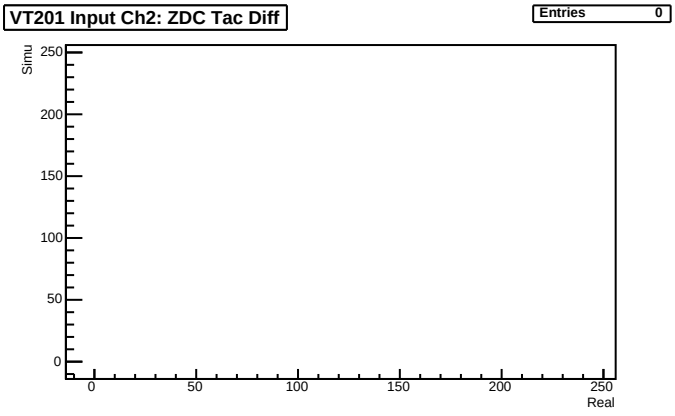

VT201 Input Ch1: EPD Tac Diff
Entries 8232
Tac

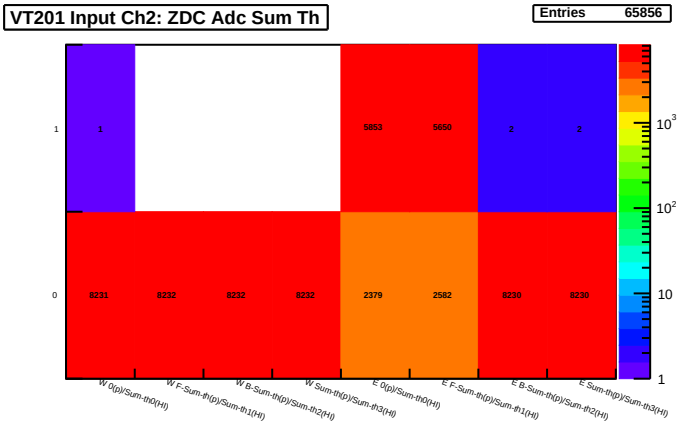

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

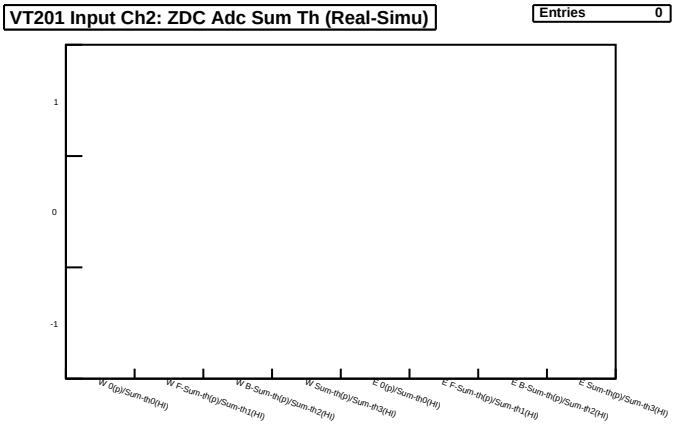

VT201 Input Ch1: EPD Hit Count Th
Entries 16464
8042
2576
190
5656
East
West

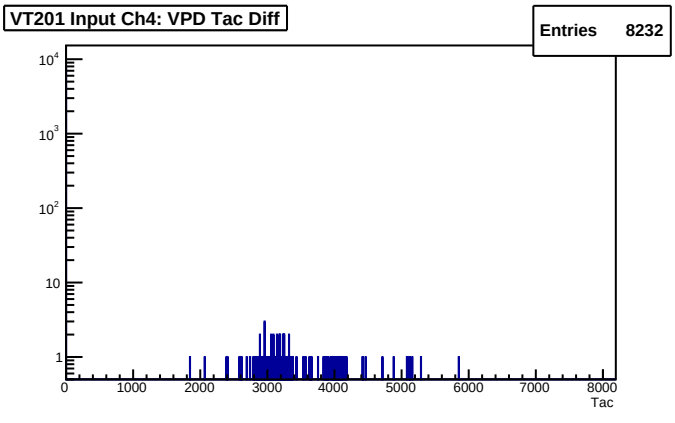

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

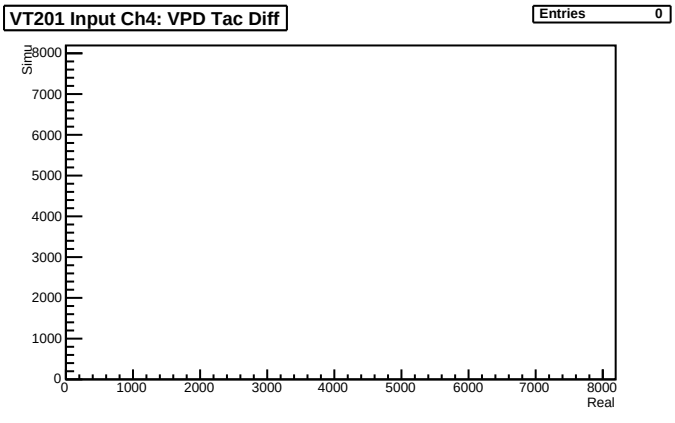

VT201 Input Ch2: ZDC Tac Diff
Entries 8232
Tac

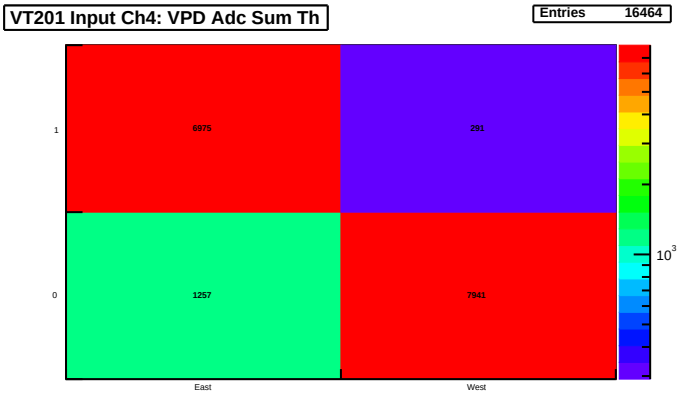

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

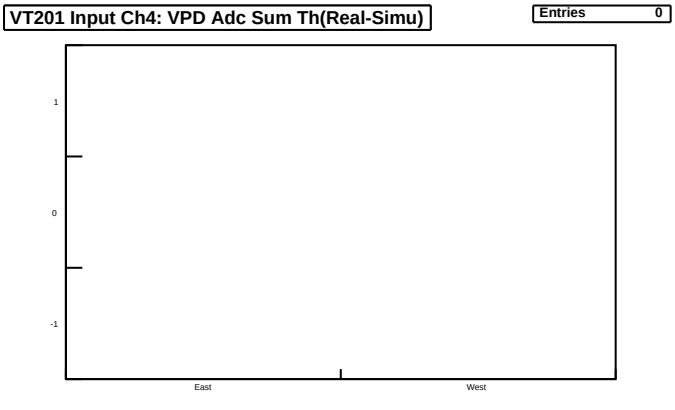

VT201 Input Ch2: ZDC Adc Sum Th
Entries 65856
1
5853
5650
2
2
8231
8232
8232
8232
2379
2582
8230
8230
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

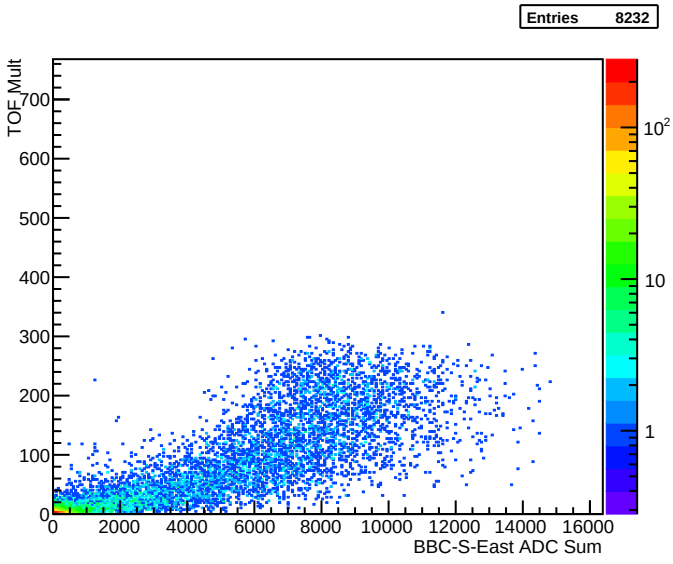

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

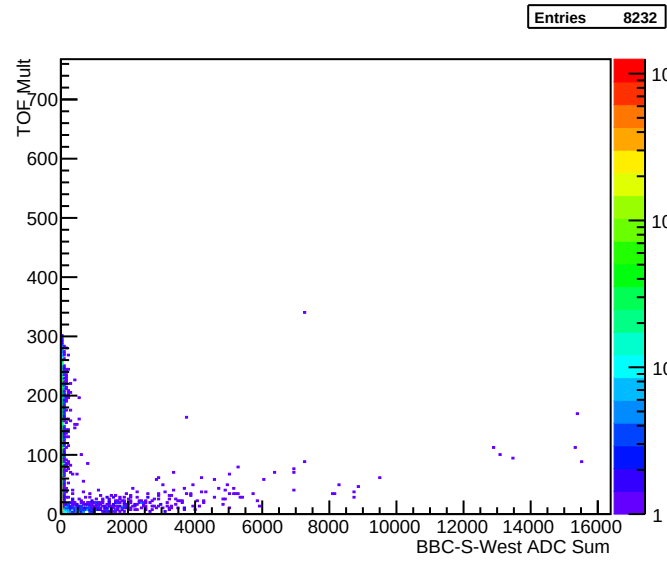

VT201 Input Ch4: VPD Tac Diff
Entries 8232
Tac

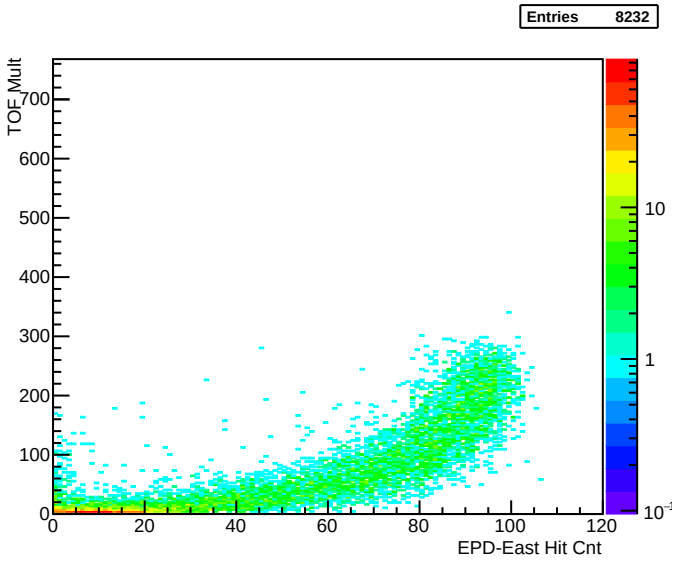

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

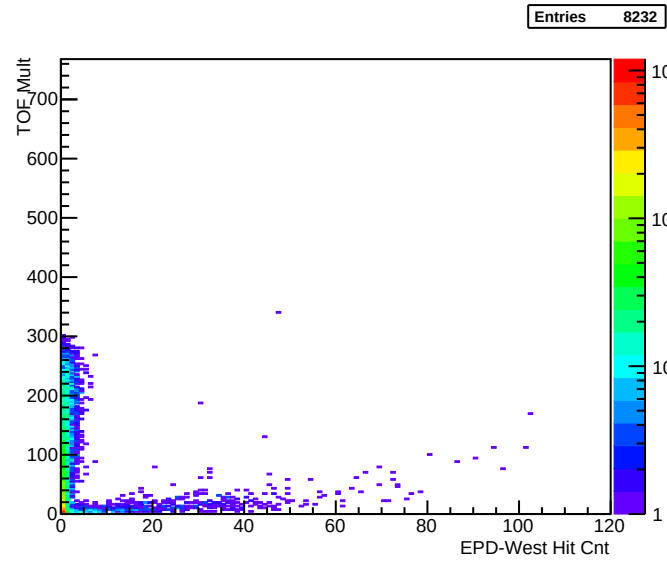

VT201 Input Ch4: VPD Adc Sum Th
Entries 16464
6975
291
1257
7941
East
West

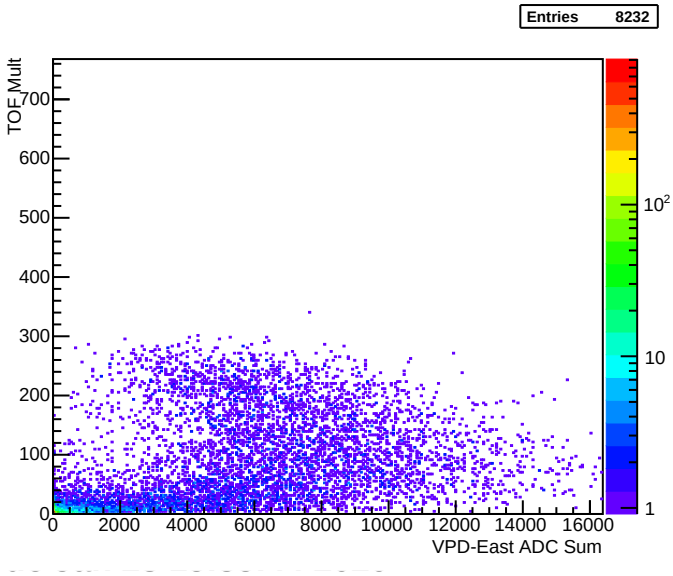

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

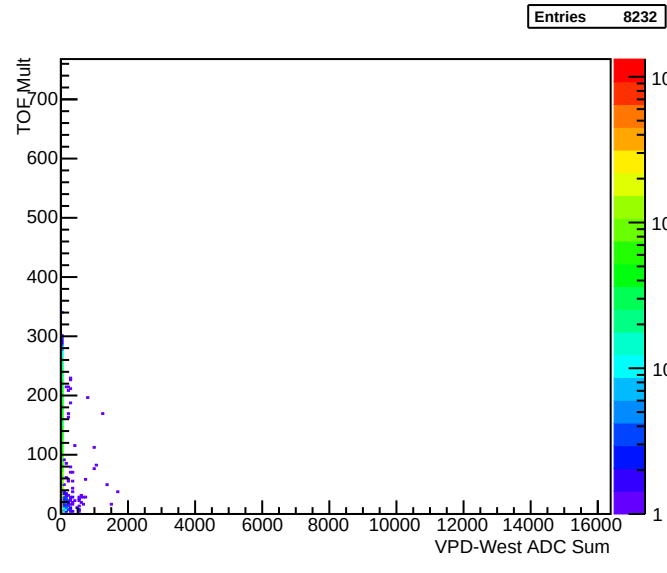

Entries 8232
TOF_Mult
BBC-S-East ADC Sum

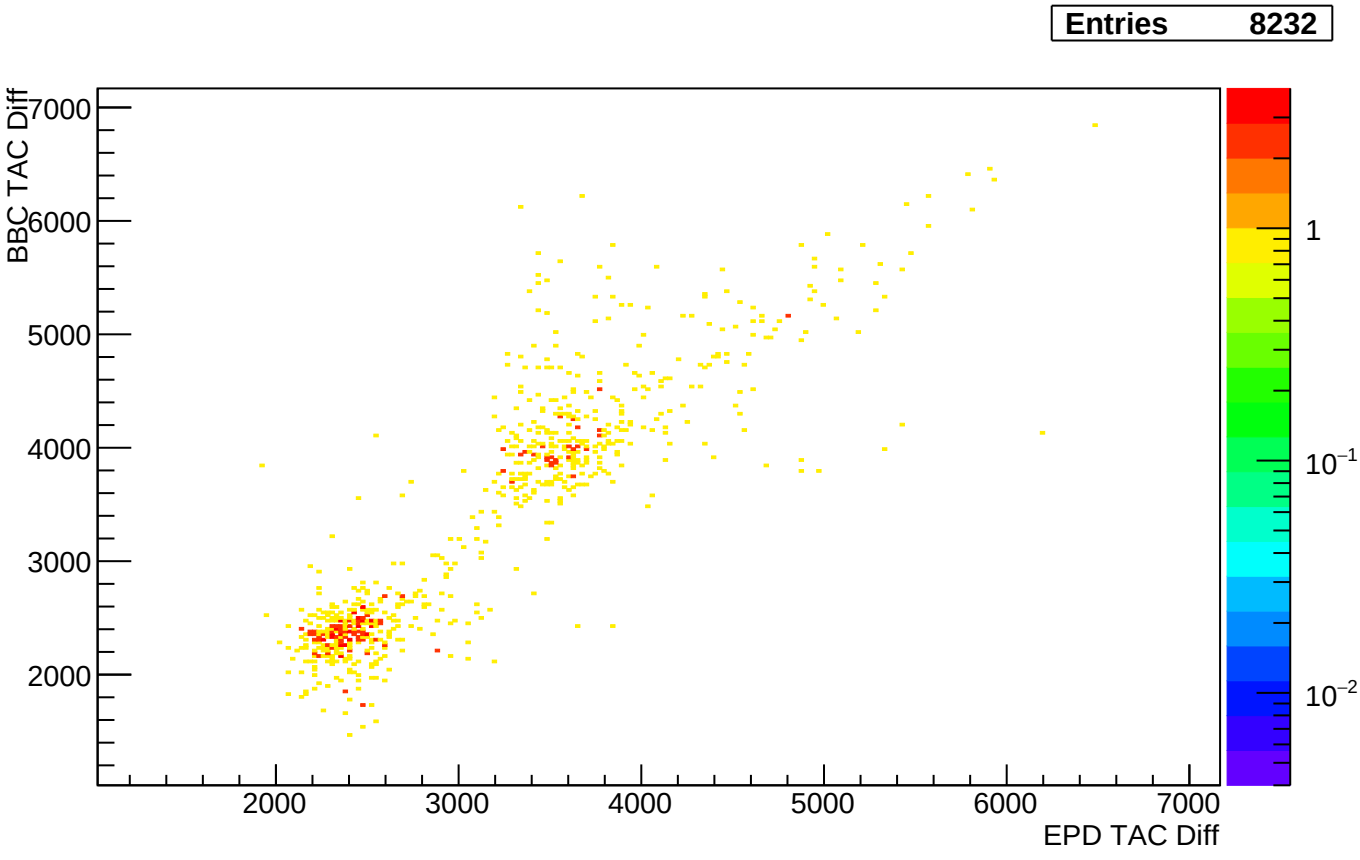

Entries 8232
TOF_Mult
BBC-S-West ADC Sum

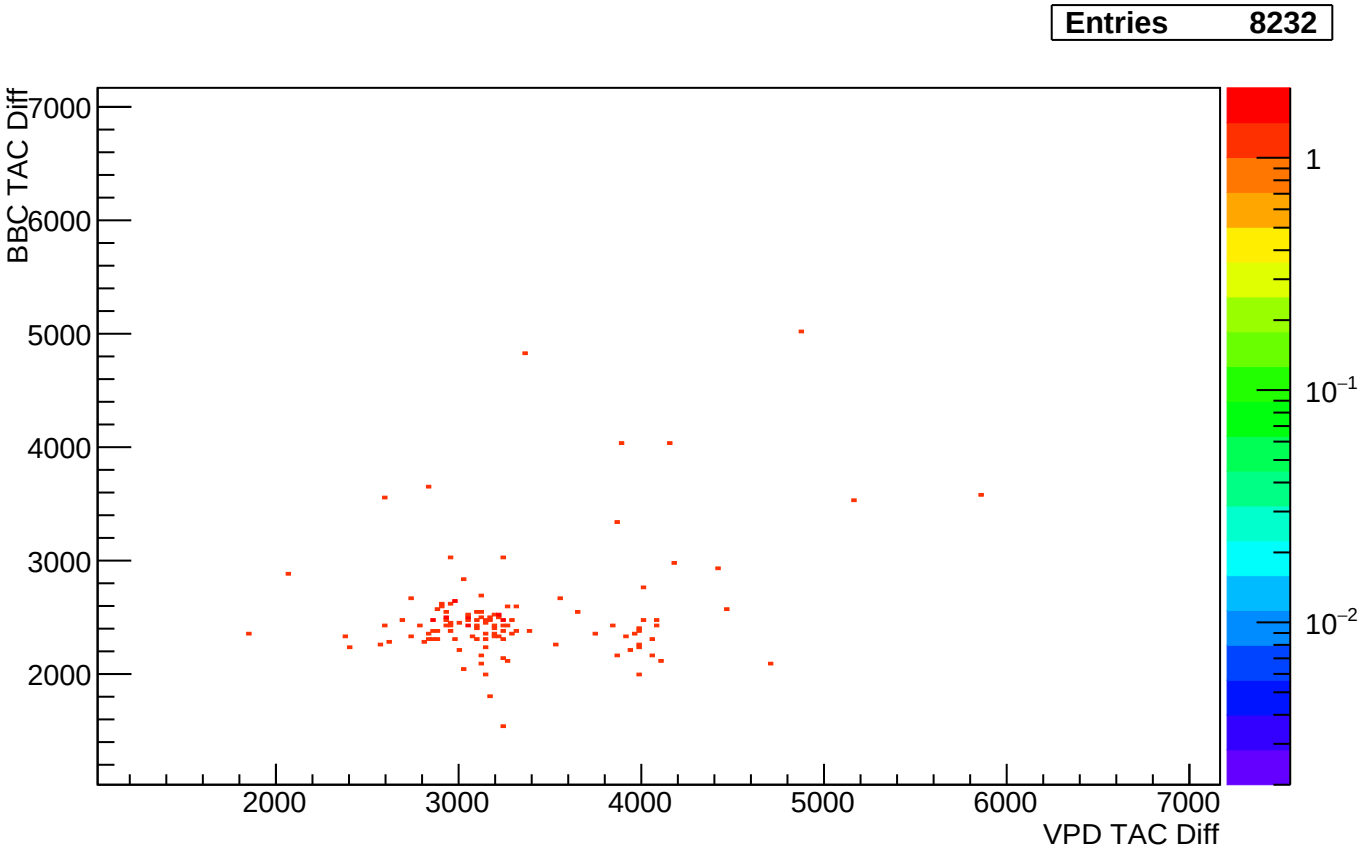

Entries 8232
TOF_Mult
EPD-East Hit Cnt

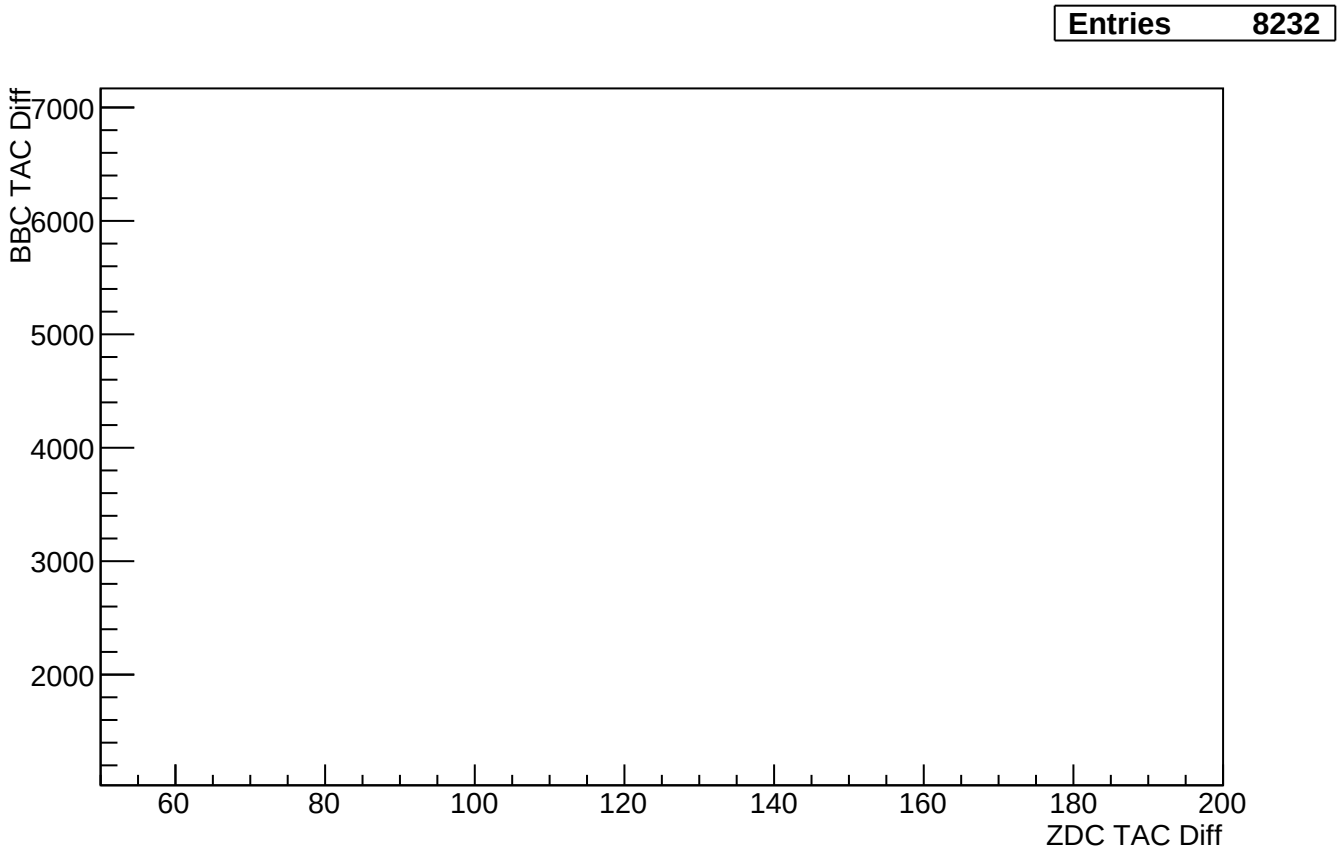

Entries 8232
TOF_Mult
EPD-West Hit Cnt

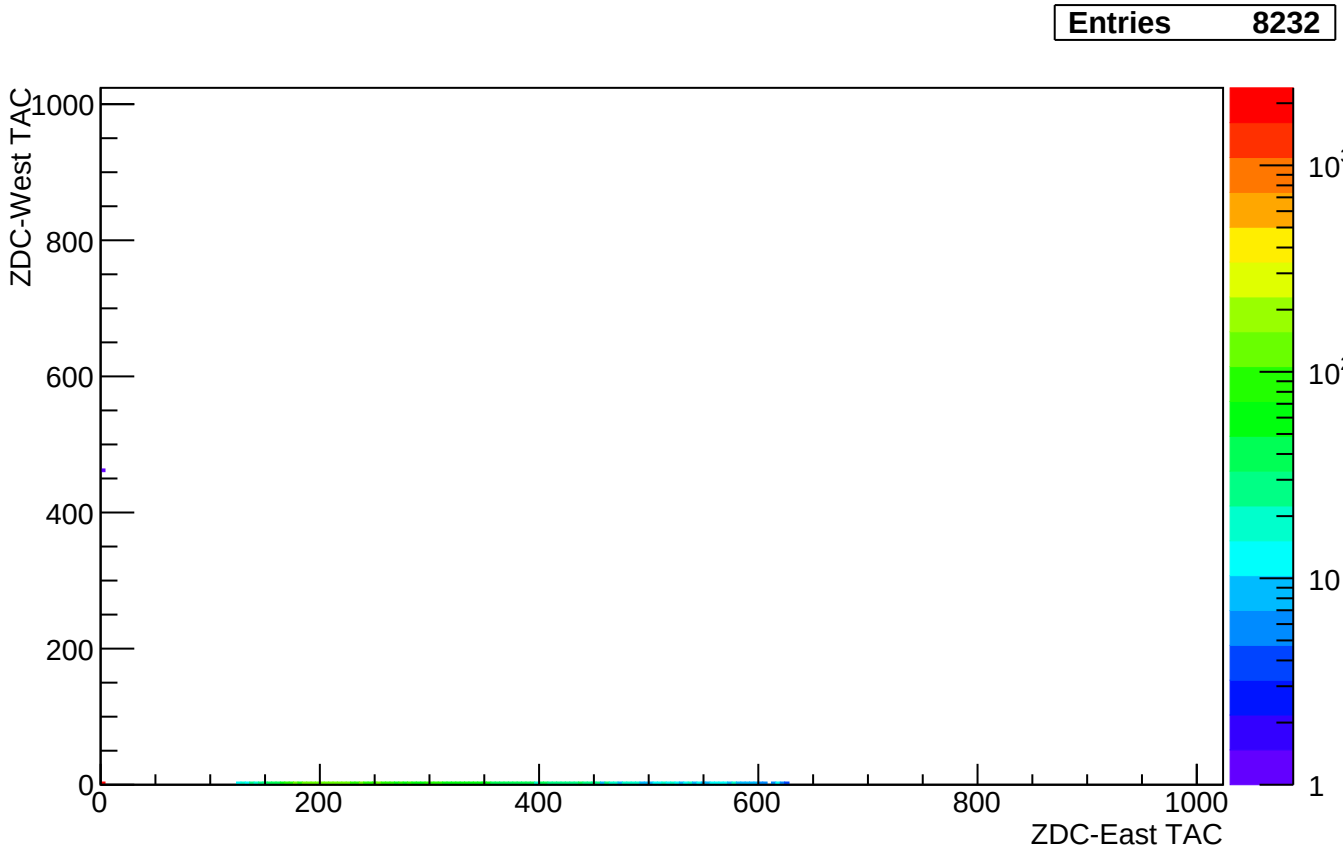

Entries 8232
TOF_Mult
VPD-East ADC Sum

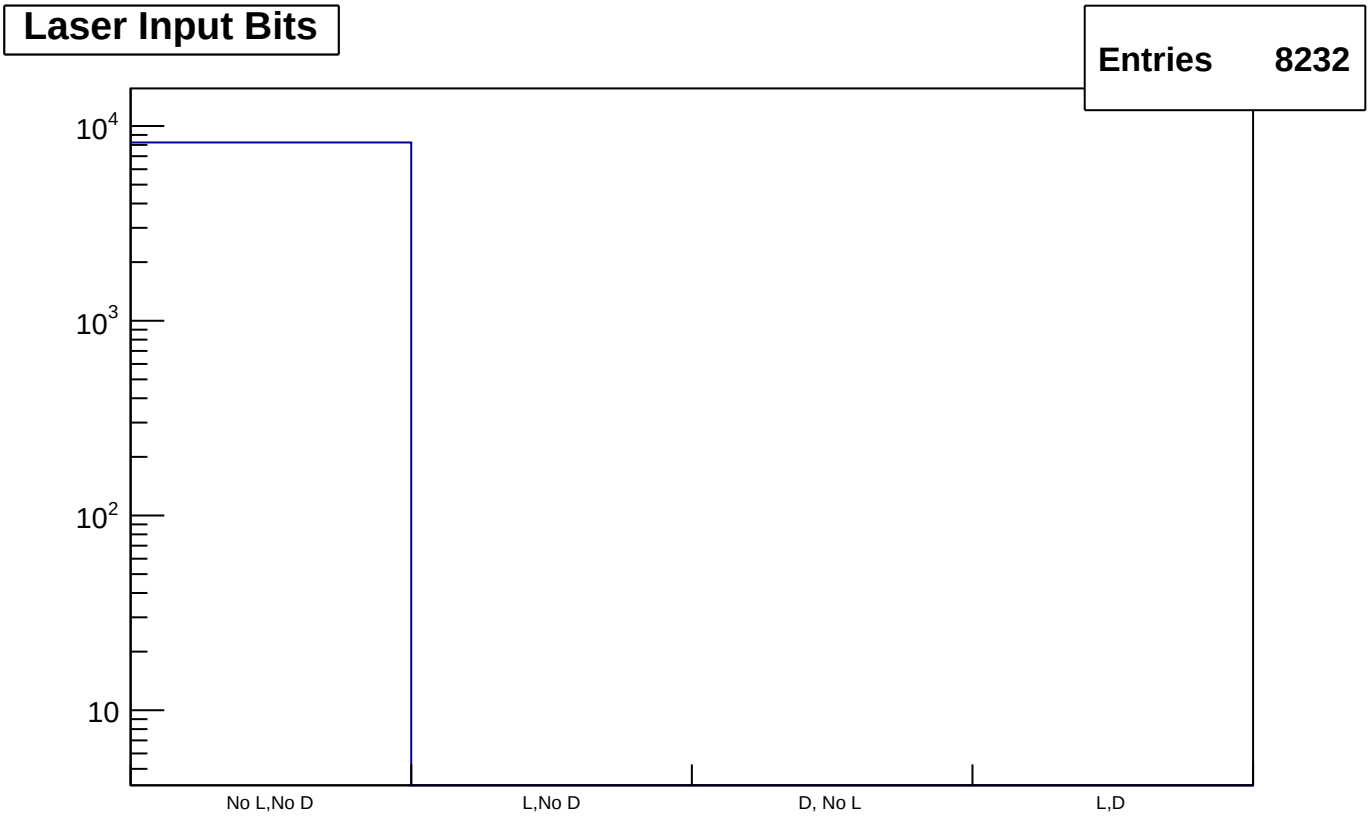

Entries 8232
TOF_Mult
VPD-West ADC Sum

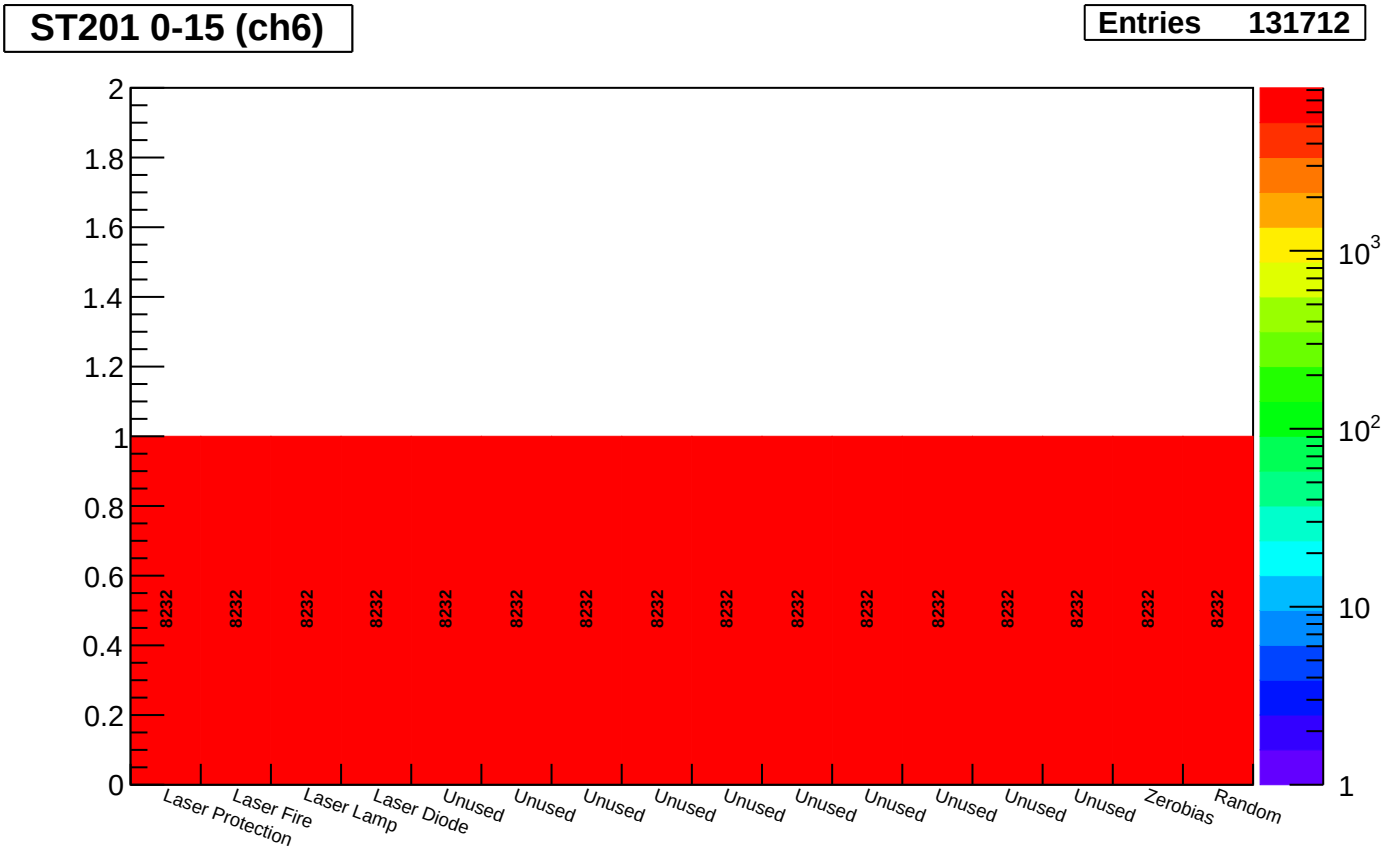

Entries 8232
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

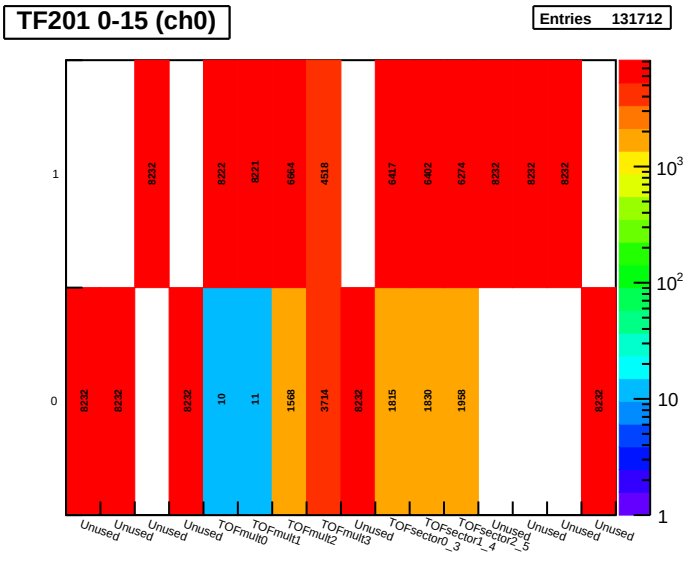

Entries 8232
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

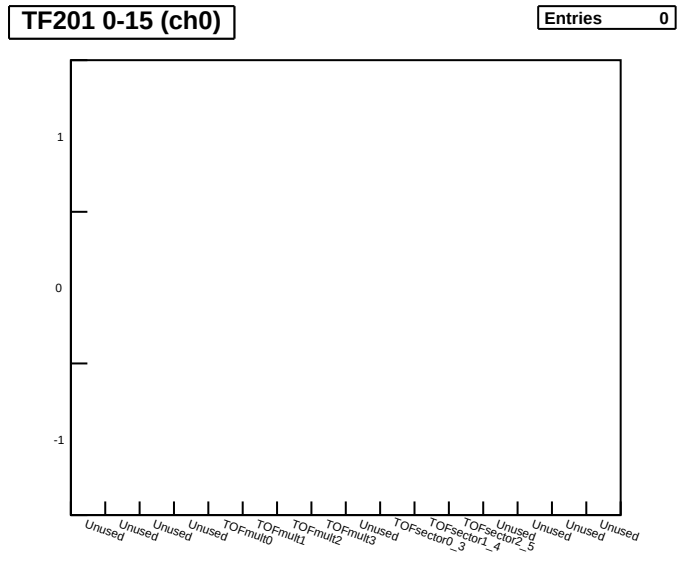

Entries 8232
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff

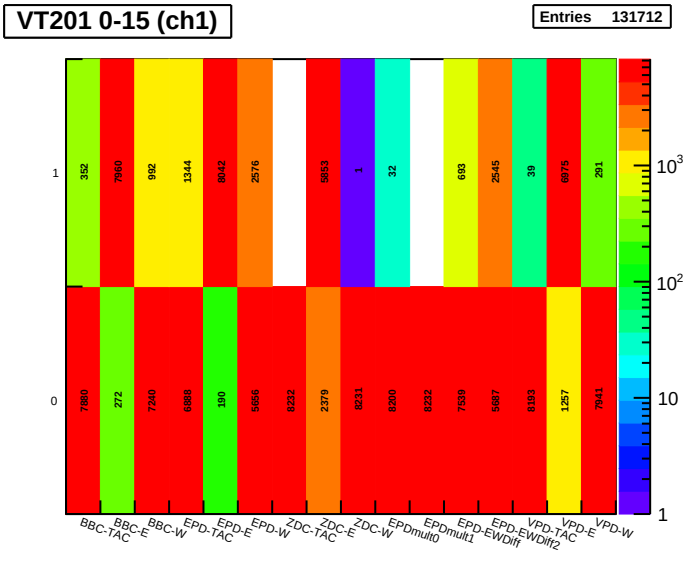

Entries 8232
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^3
10^2
10
1

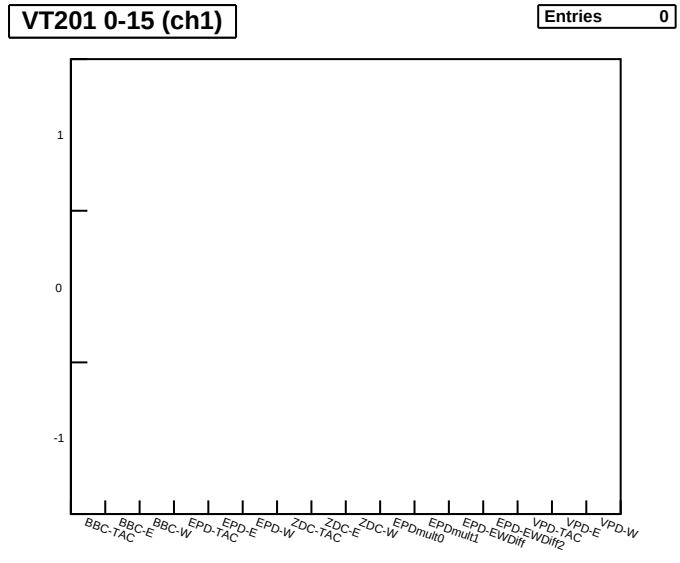

Laser Input Bits
Entries 8232
10^4
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

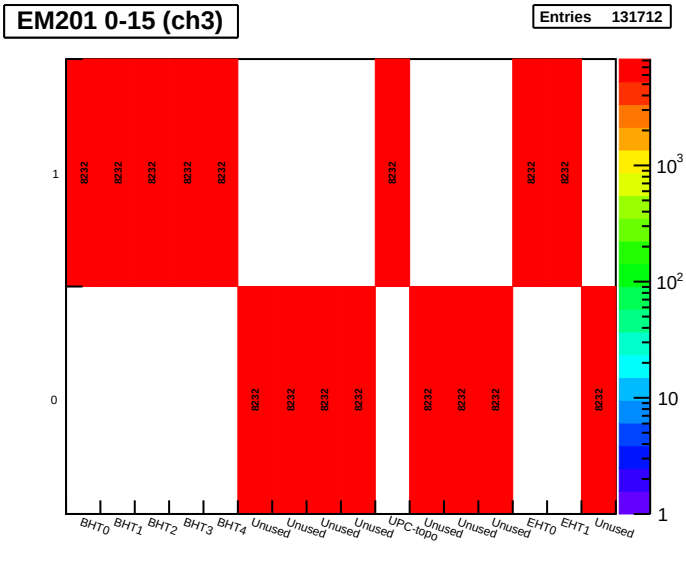

ST201 0-15 (ch6)
Entries 131712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
8232
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

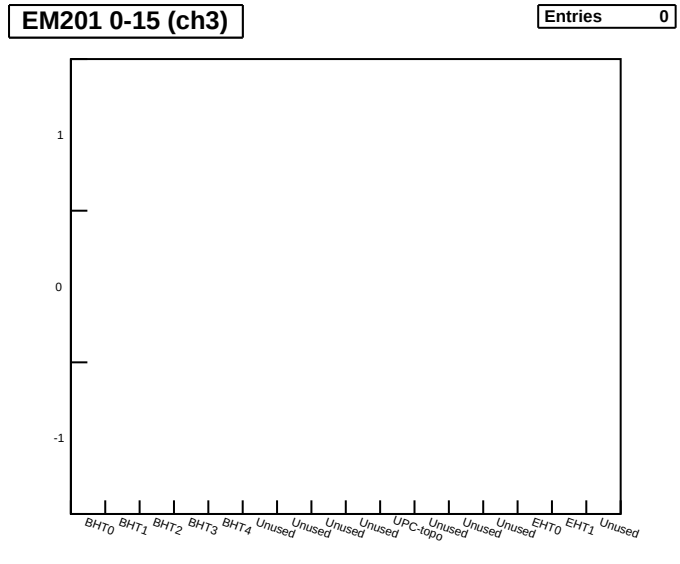

TF201 0-15 (ch0)
Entries 131712
1
0
8232 8222 8221 6664 4518 6417 6402 6274 8232 8232 8232
8232 8232 8232 10 11 1568 3714 8232 1815 1830 1958 8232
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^3
10^2
10
1


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 131712
1
0
352 7960 992 1344 8042 2576 5853 1 32 693 2545 39 6975 291
7880 272 7240 6888 190 5656 8232 2379 8231 8200 8232 7539 5687 8193 1257 7941
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
10^3
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 131712
1
0
8232 8232 8232 8232 8232 8232 8232 8232
8232 8232 8232 8232 8232 8232 8232 8232
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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