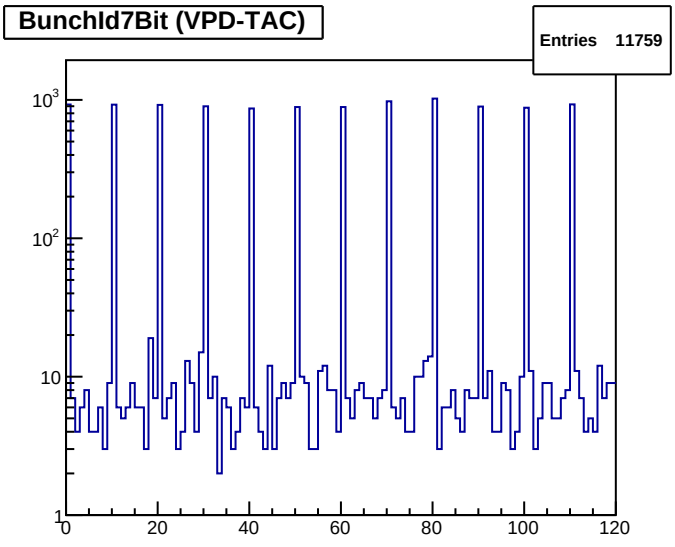
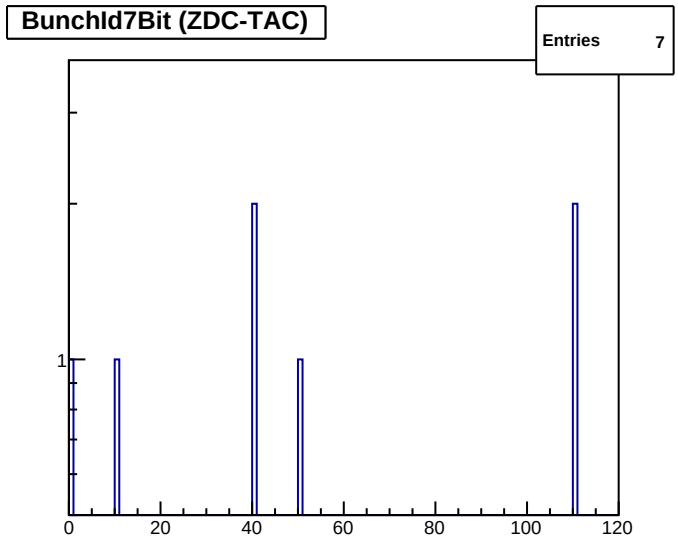
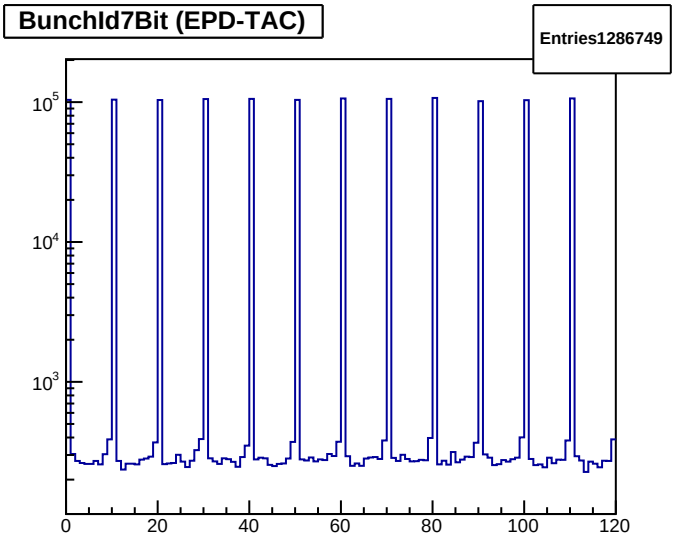
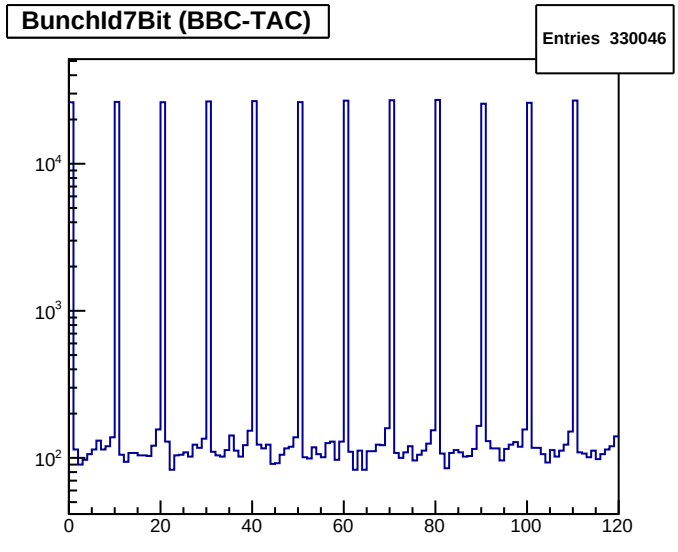
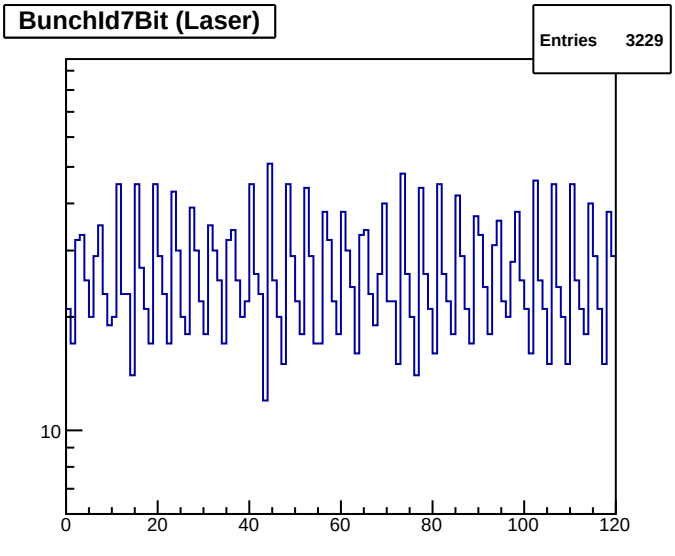
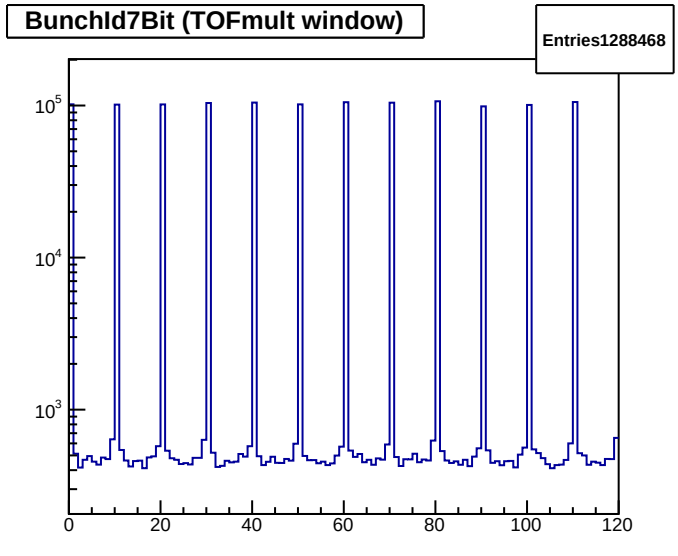

BunchId7Bit (VPD-TAC)
Entries 11759
10^3
10^2
10
1
0
20
40
60
80
100
120

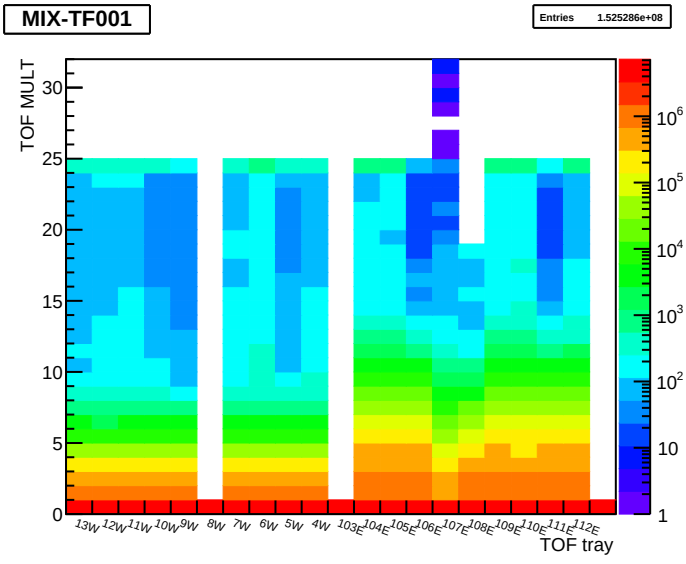

BunchId7Bit (ZDC-TAC)
Entries 7
1
0
20
40
60
80
100
120

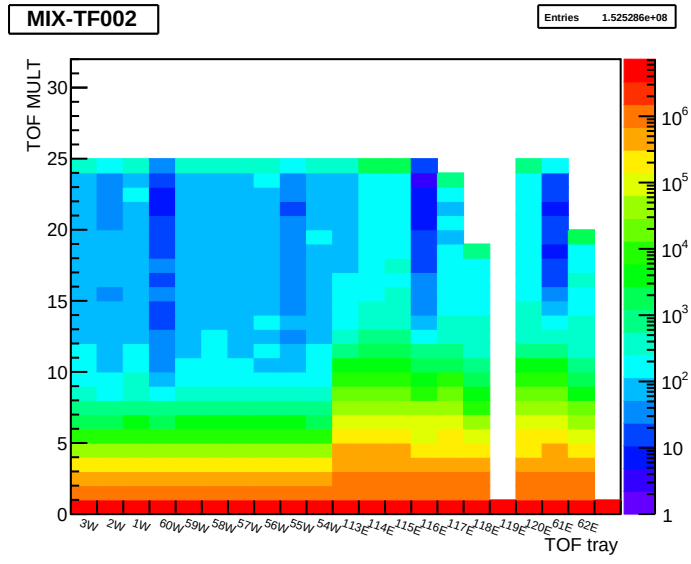

BunchId7Bit (EPD-TAC)
Entries1286749
10^5
10^4
10^3
0
20
40
60
80
100
120

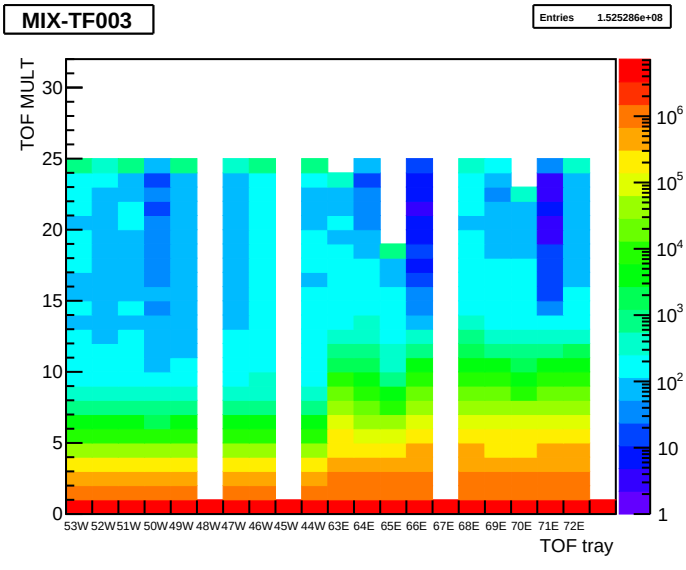

BunchId7Bit (BBC-TAC)
Entries 330046
10^4
10^3
10^2
0
20
40
60
80
100
120

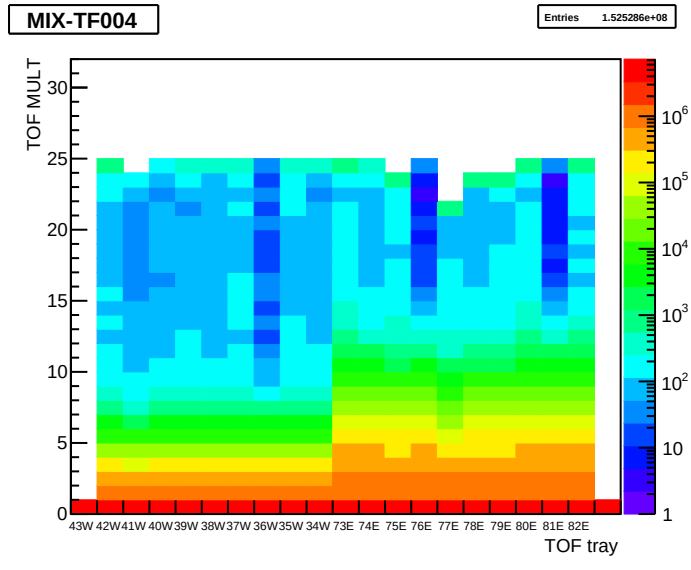

BunchId7Bit (Laser)
Entries 3229
10
0
20
40
60
80
100
120

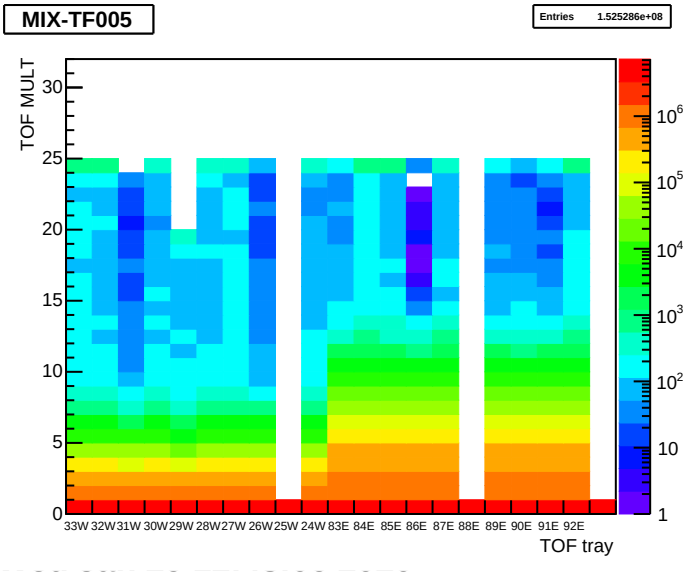

BunchId7Bit (TOFmult window)
Entries1288468
10^5
10^4
10^3
0
20
40
60
80
100
120

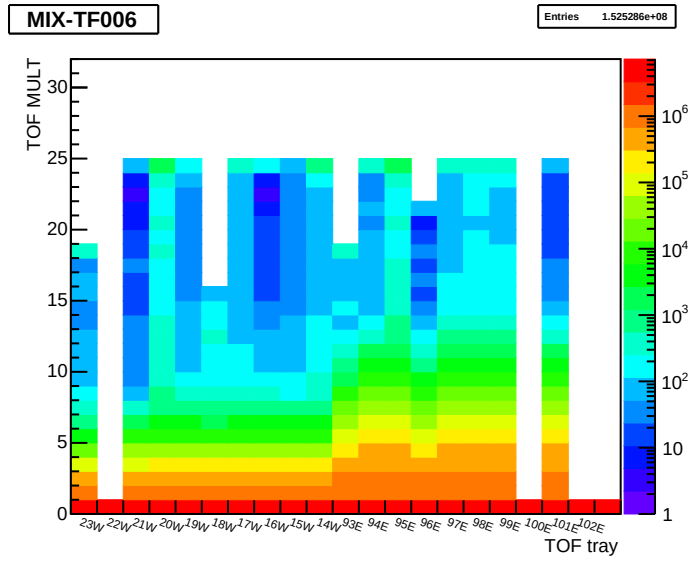

MIX-TF001
Entries 1.525286e+08
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

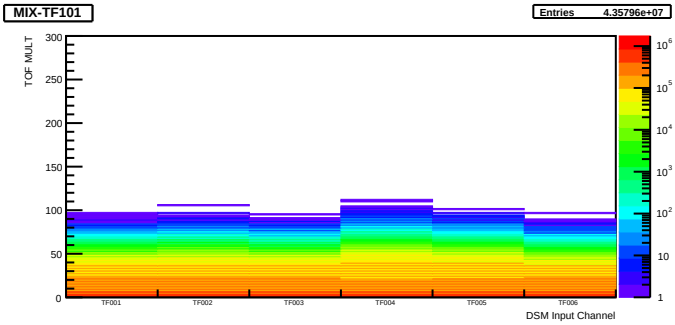

MIX-TF002
Entries 1.525286e+08
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

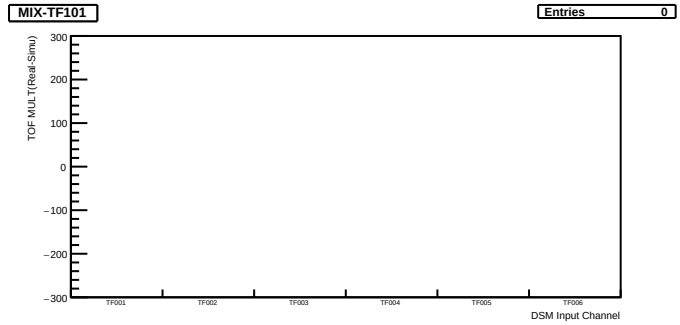

MIX-TF003
Entries 1.525286e+08
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

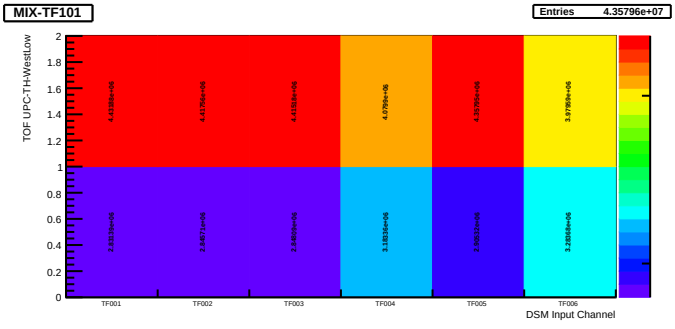

MIX-TF004
Entries 1.525286e+08
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

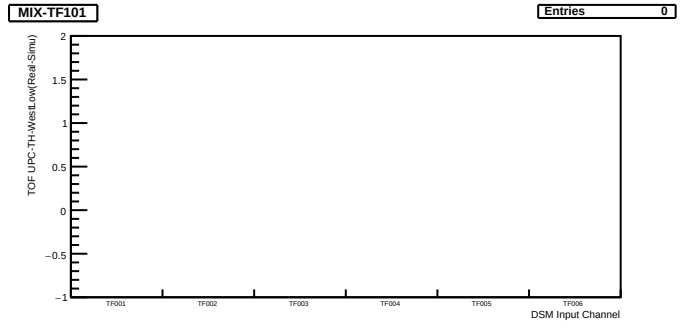

MIX-TF005
Entries 1.525286e+08
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

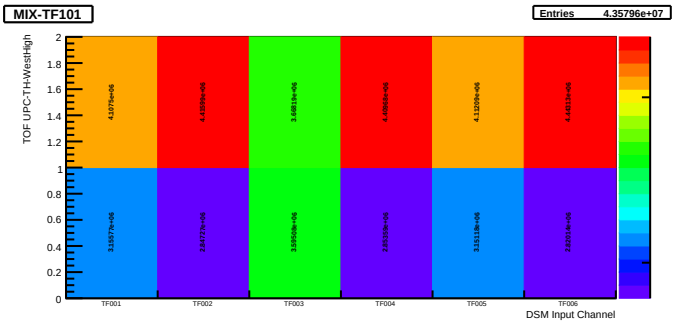

MIX-TF006
Entries 1.525286e+08
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

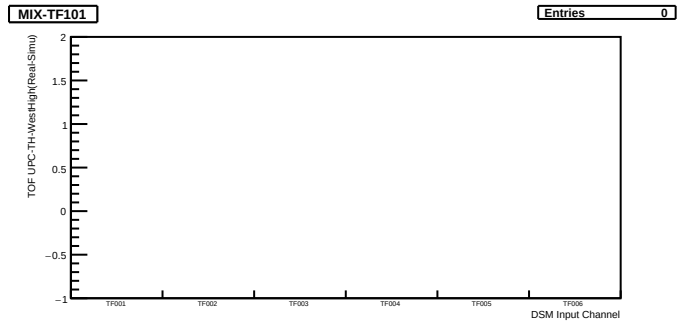

MIX-TF101
Entries 4.35796e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

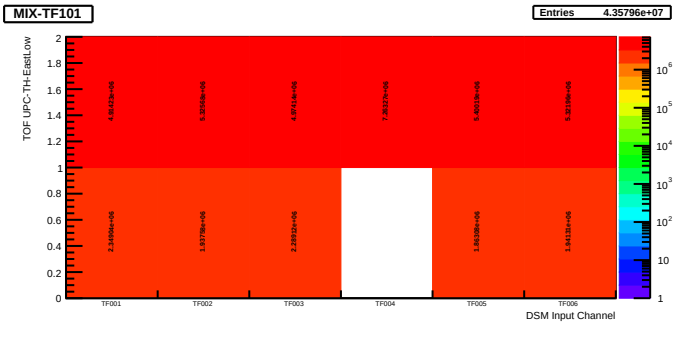

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

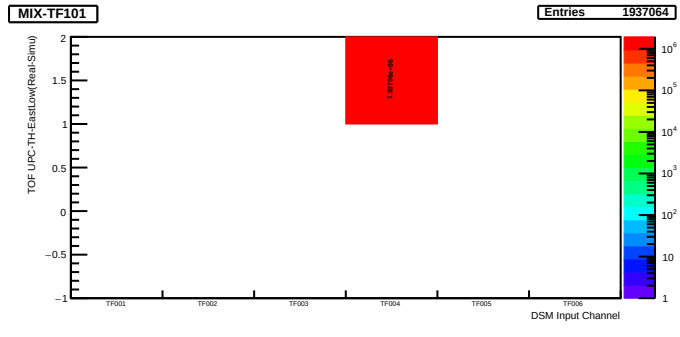

MIX-TF101
Entries 4.35796e+07
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

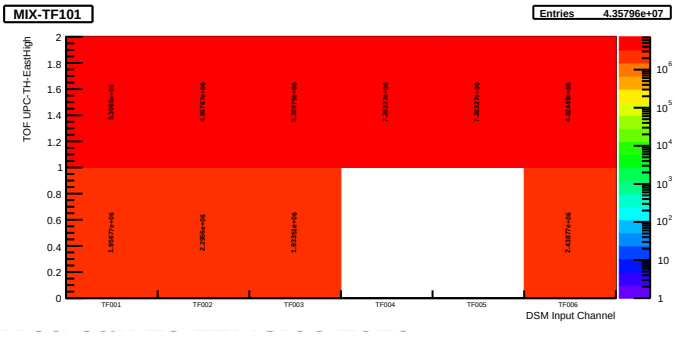

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

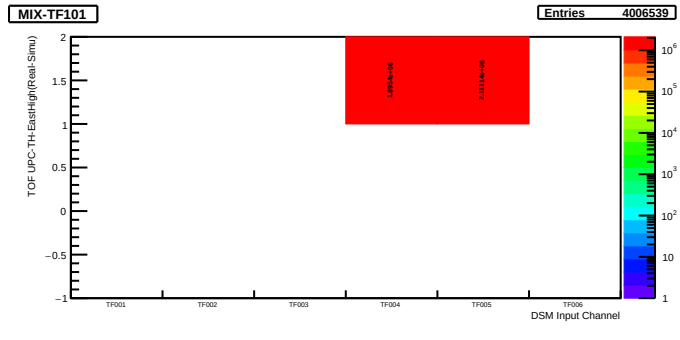

MIX-TF101
Entries 4.35796e+07
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

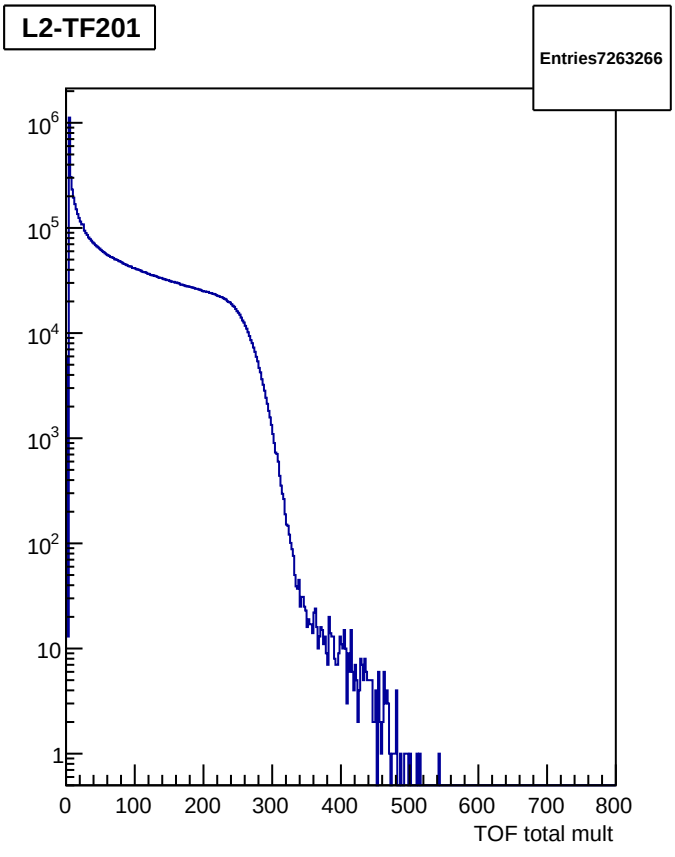

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

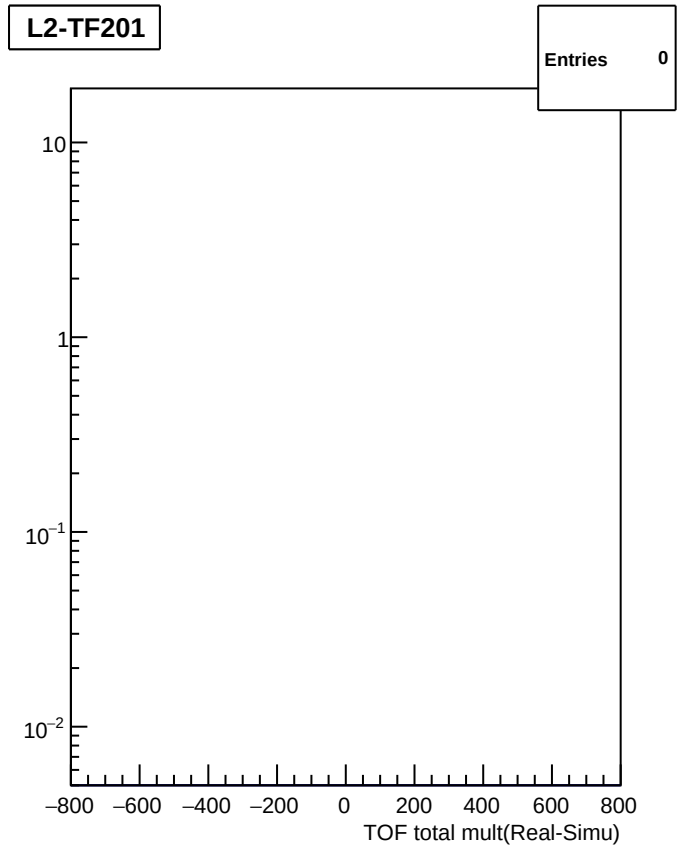

MIX-TF101
Entries 4.35796e+07
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

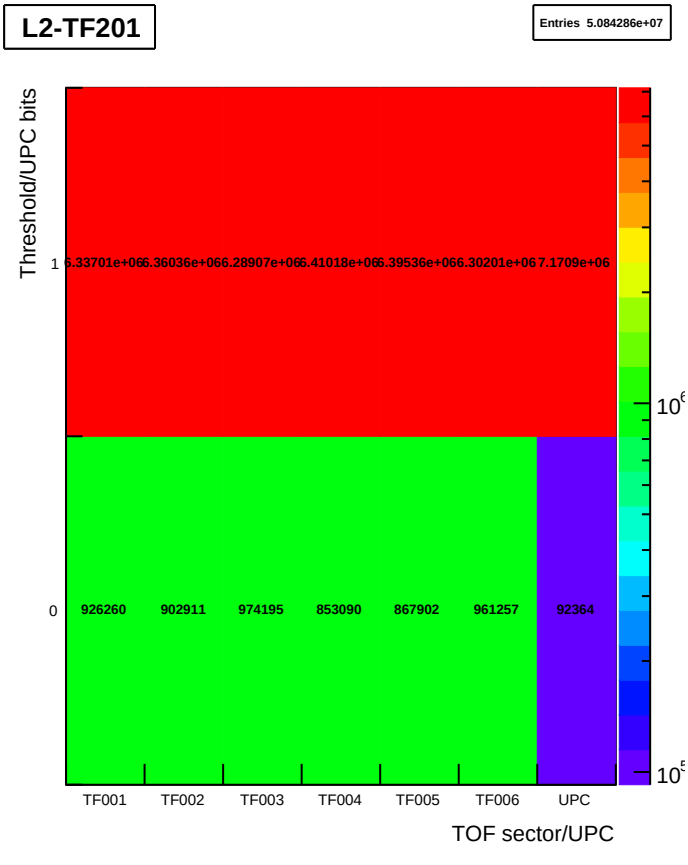

MIX-TF101
Entries 1937064
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

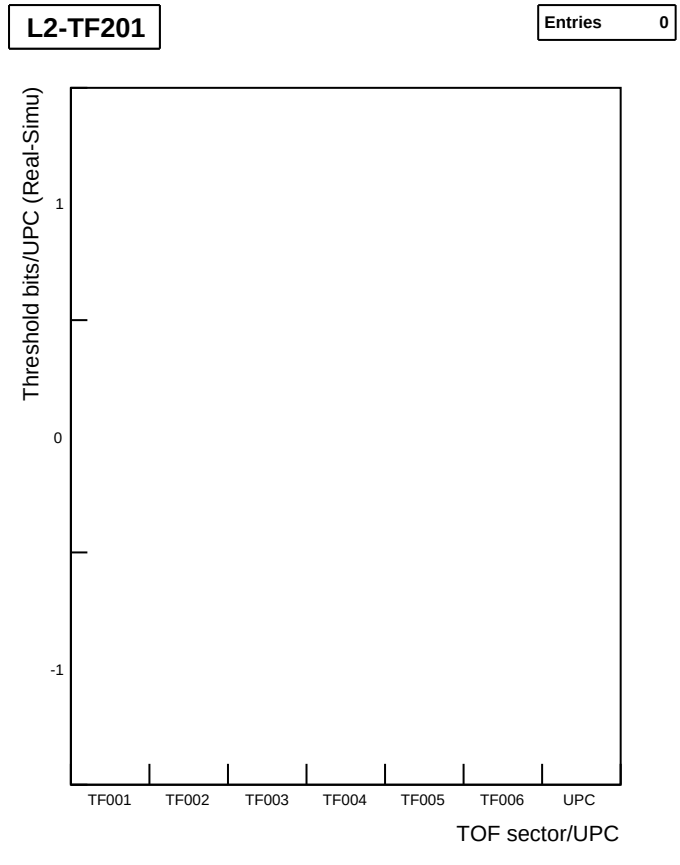

MIX-TF101
Entries 4.35796e+07
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

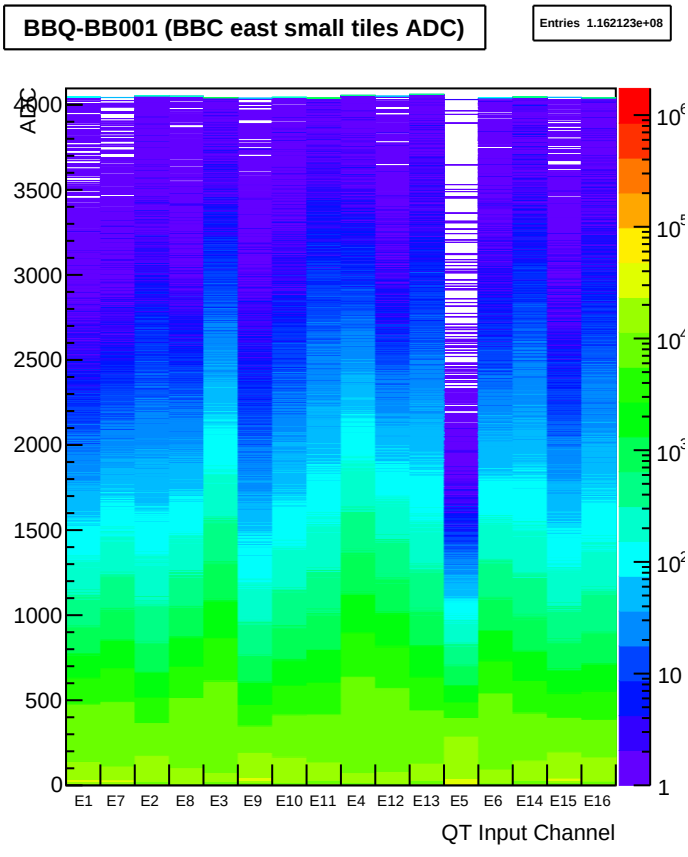

MIX-TF101
Entries 4006539
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

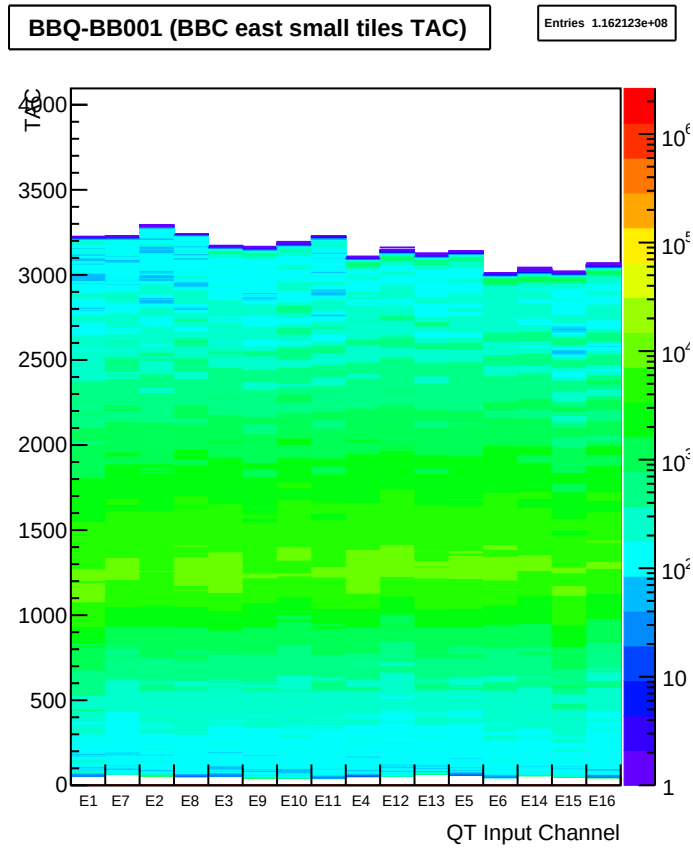

L2-TF201
Entries7263266
TOF total mult

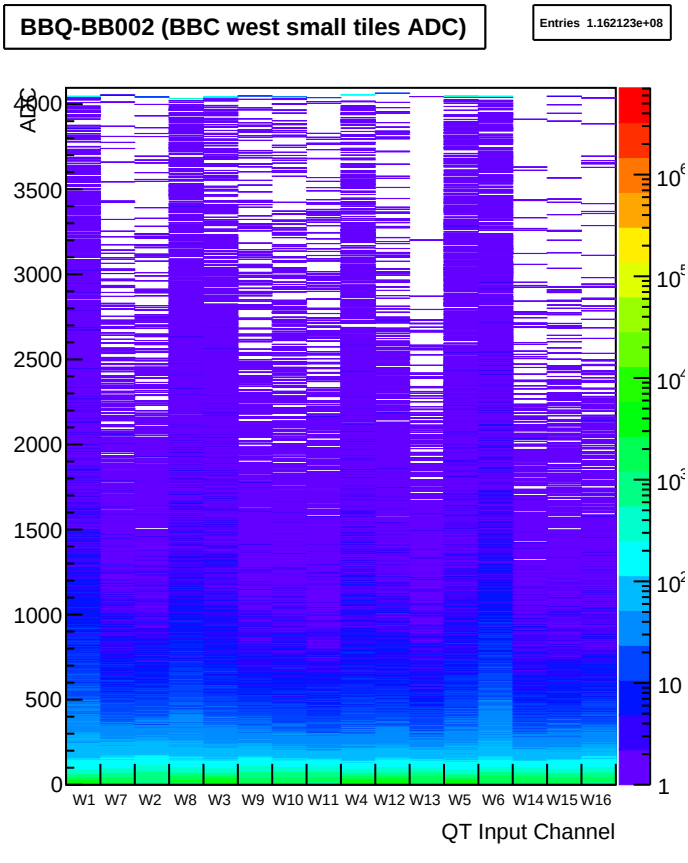

L2-TF201
Entries 0
TOF total mult(Real-Simu)

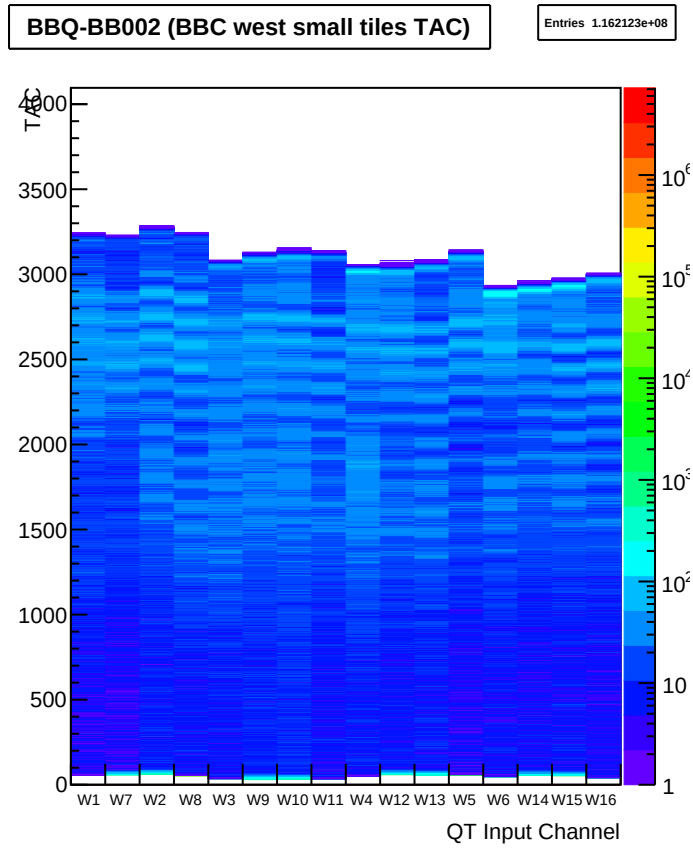

L2-TF201
Entries 5.084286e+07
Threshold/UPC bits
926260
902911
974195
853090
867902
961257
92364
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

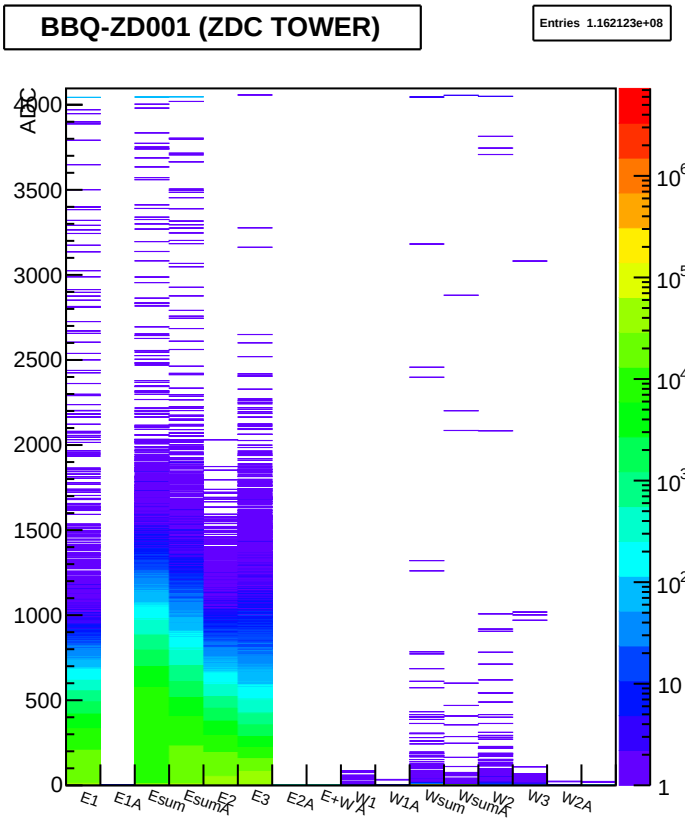

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

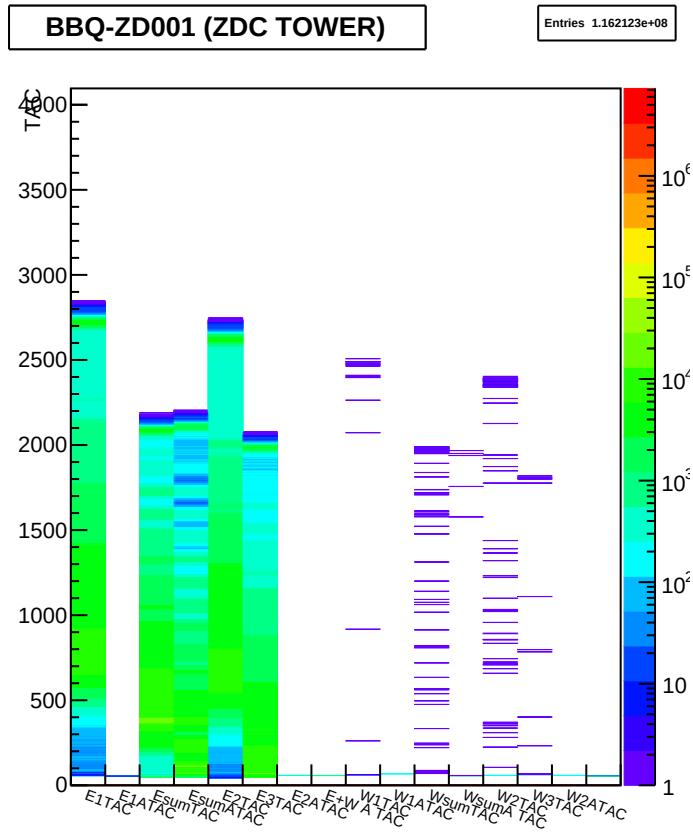

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.162123e+08
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

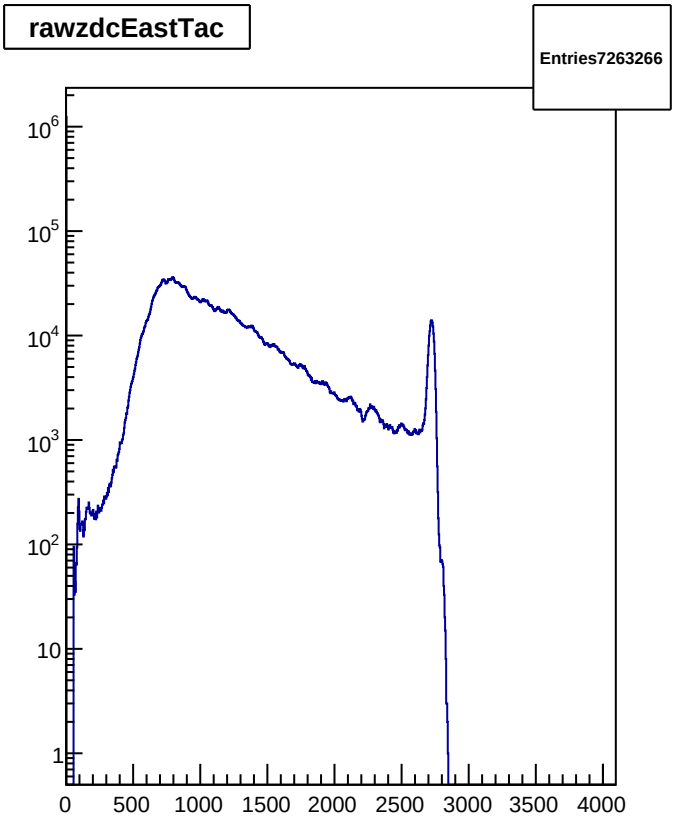

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.162123e+08
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

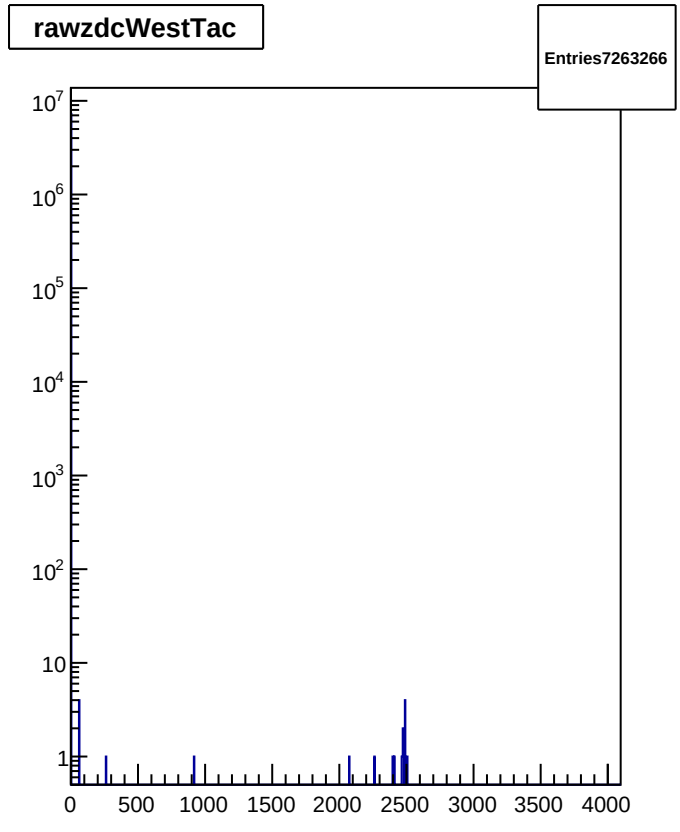

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.162123e+08
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

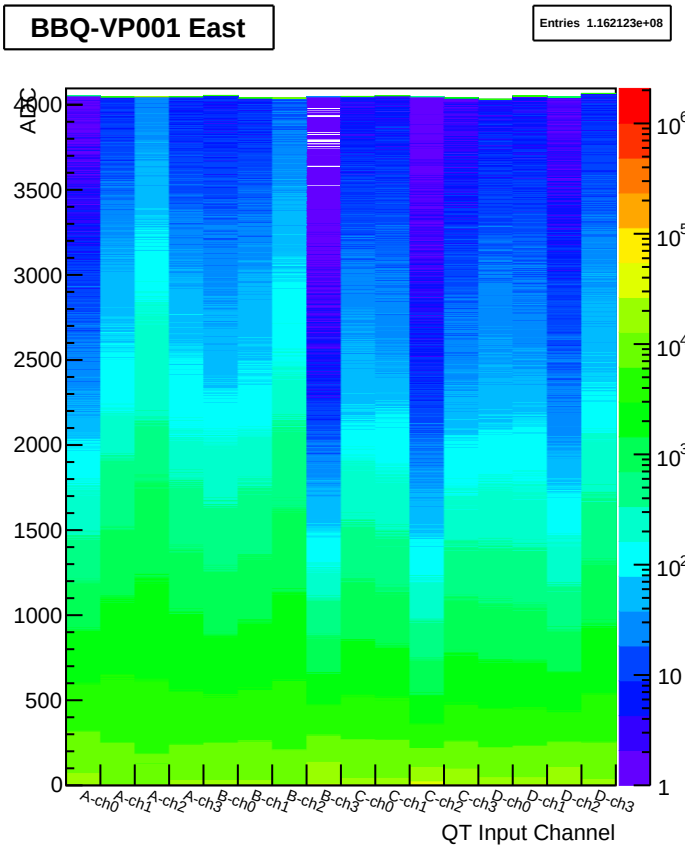

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.162123e+08
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

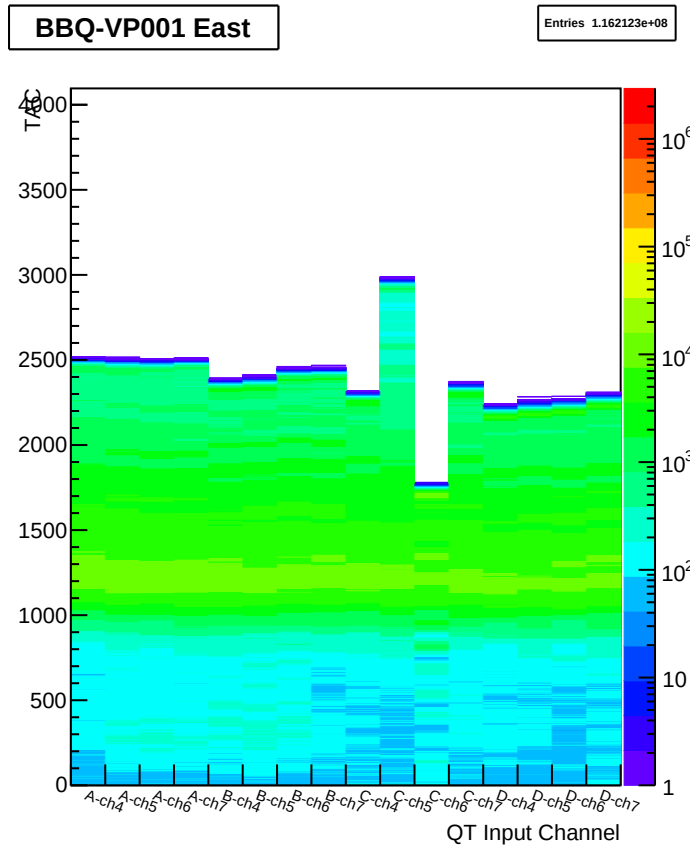

BBQ-ZD001 (ZDC TOWER)
Entries 1.162123e+08
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

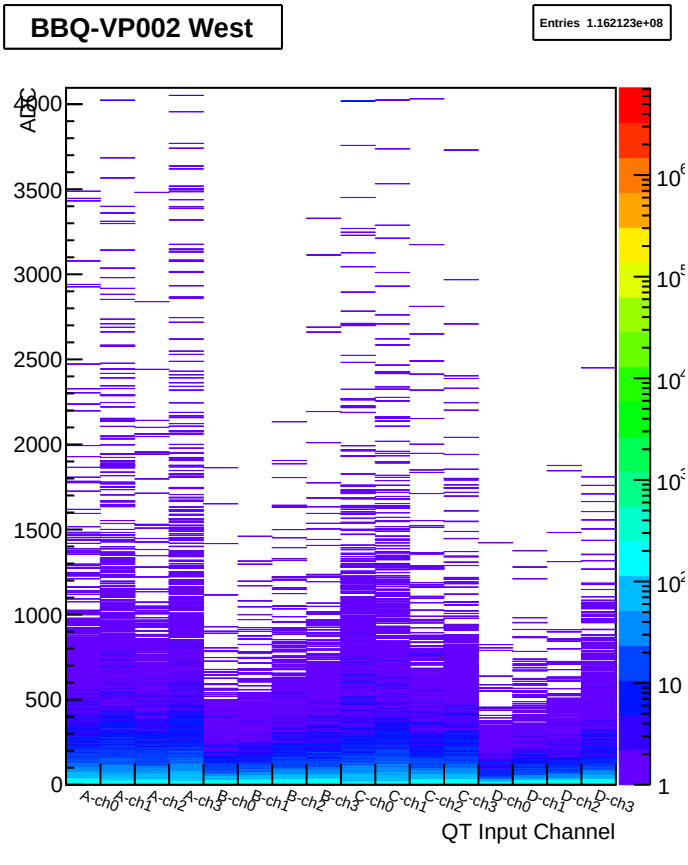

BBQ-ZD001 (ZDC TOWER)
Entries 1.162123e+08
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumATAC
W2TAC
W3TAC
W2ATAC

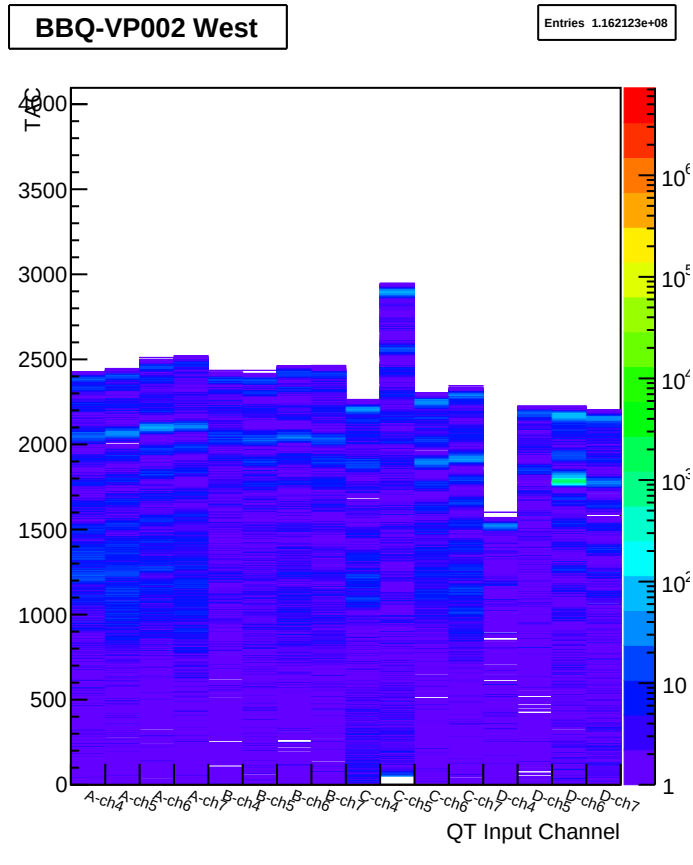

rawzdcEastTac
Entries7263266

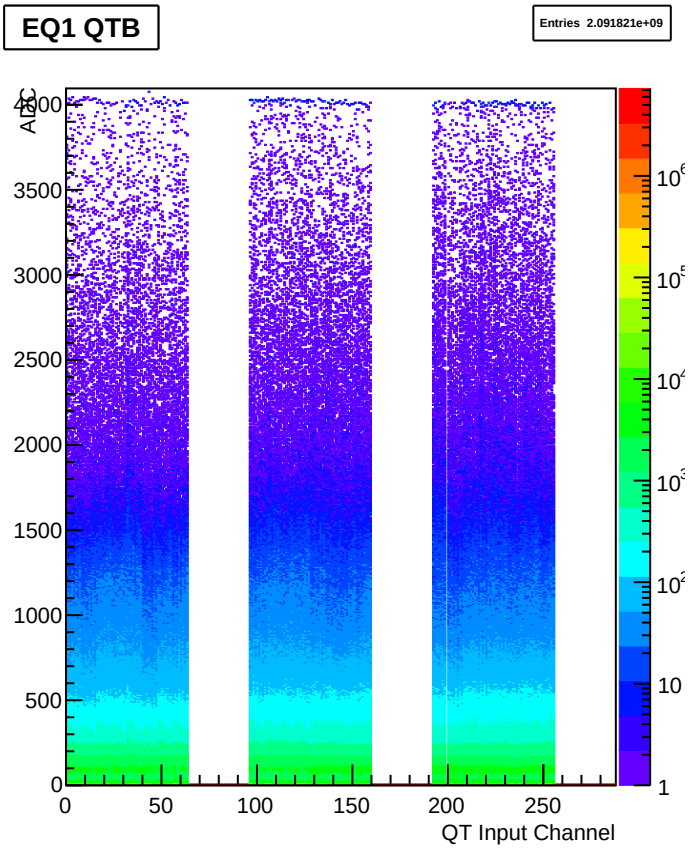

rawzdcWestTac
Entries7263266

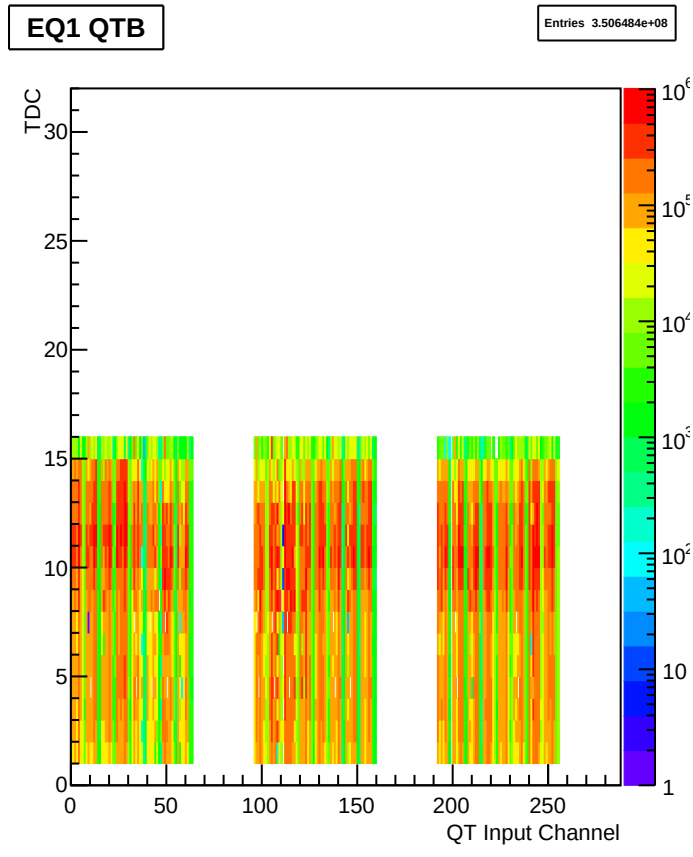

BBQ-VP001 East
Entries 1.162123e+08
ADC
QT Input Channel

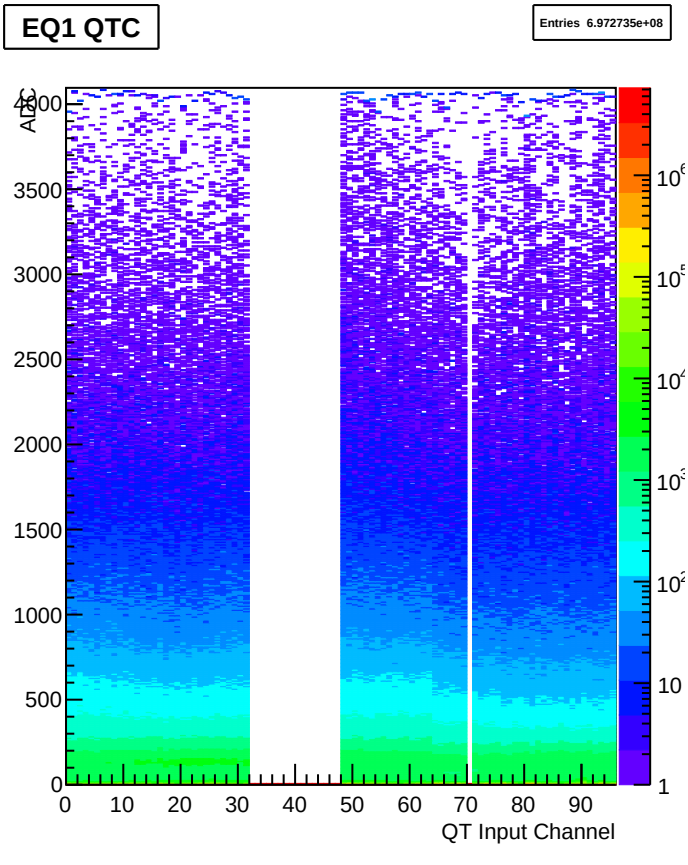

BBQ-VP001 East
Entries 1.162123e+08
TADC
QT Input Channel

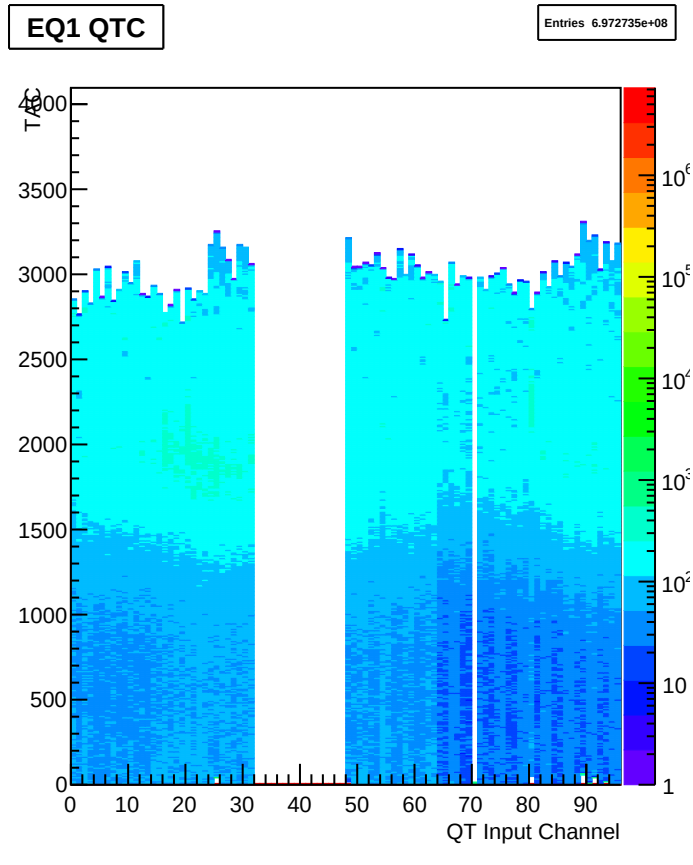

BBQ-VP002 West
Entries 1.162123e+08
ADC
QT Input Channel

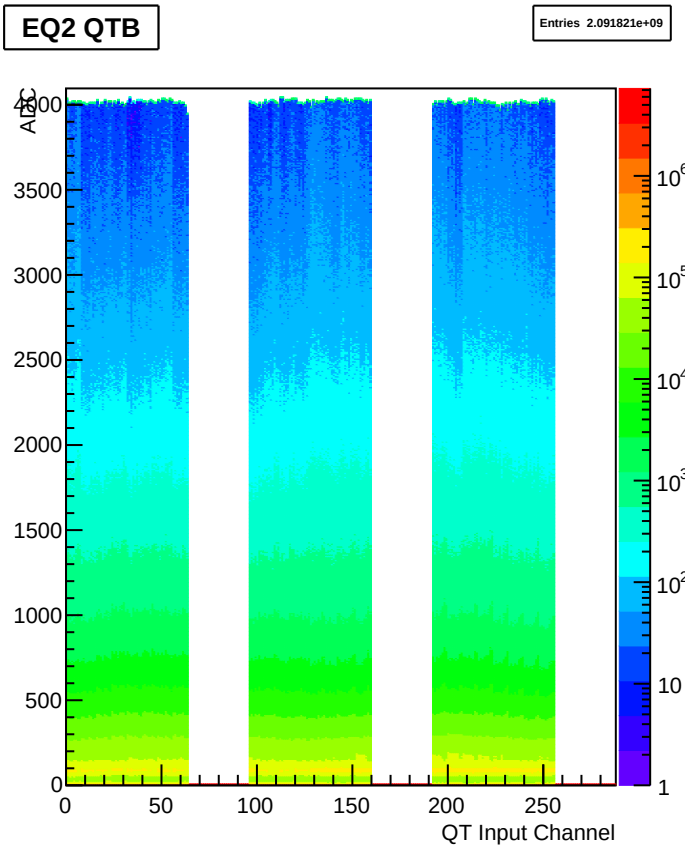

BBQ-VP002 West
Entries 1.162123e+08
TADC
QT Input Channel

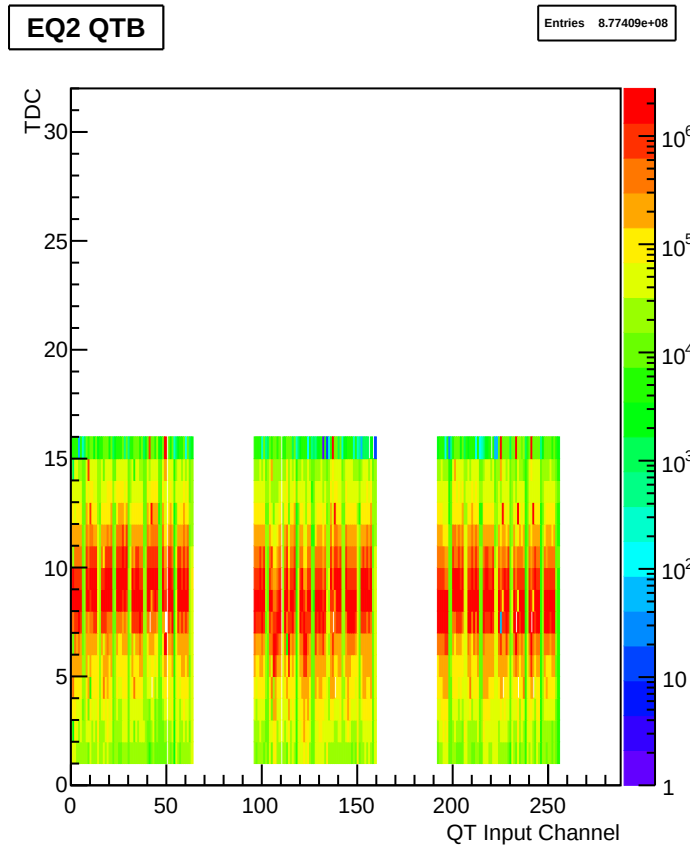

EQ1 QTB
Entries 2.091821e+09
ADC
QT Input Channel

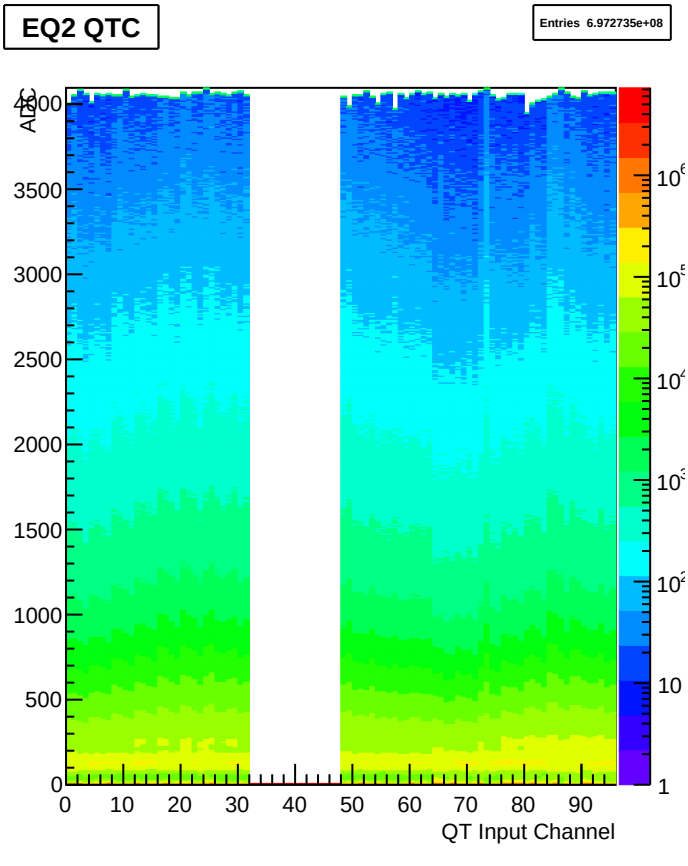

EQ1 QTB
Entries 3.506484e+08
TDC
QT Input Channel

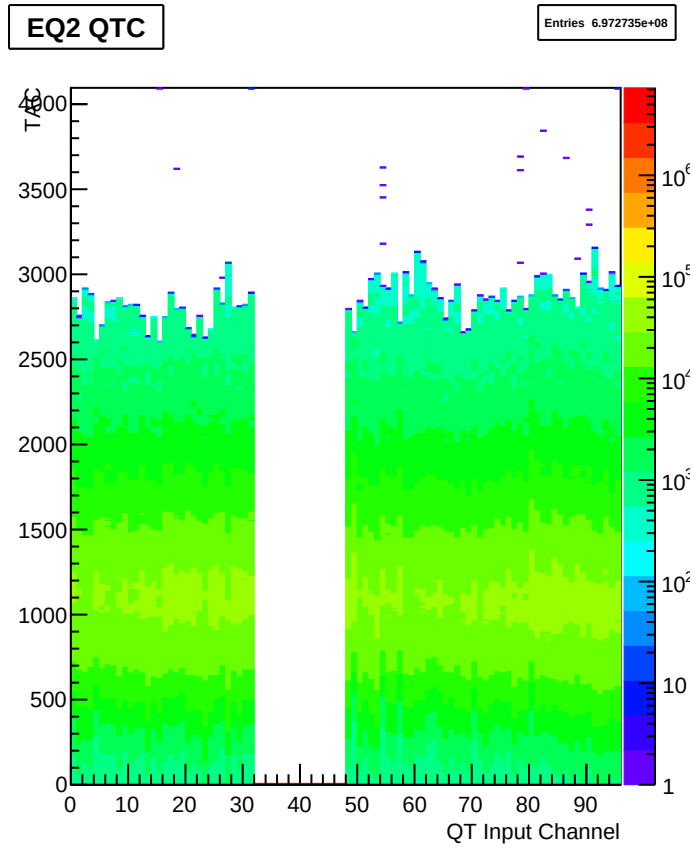

EQ1 QTC
Entries 6.972735e+08
ADC
QT Input Channel

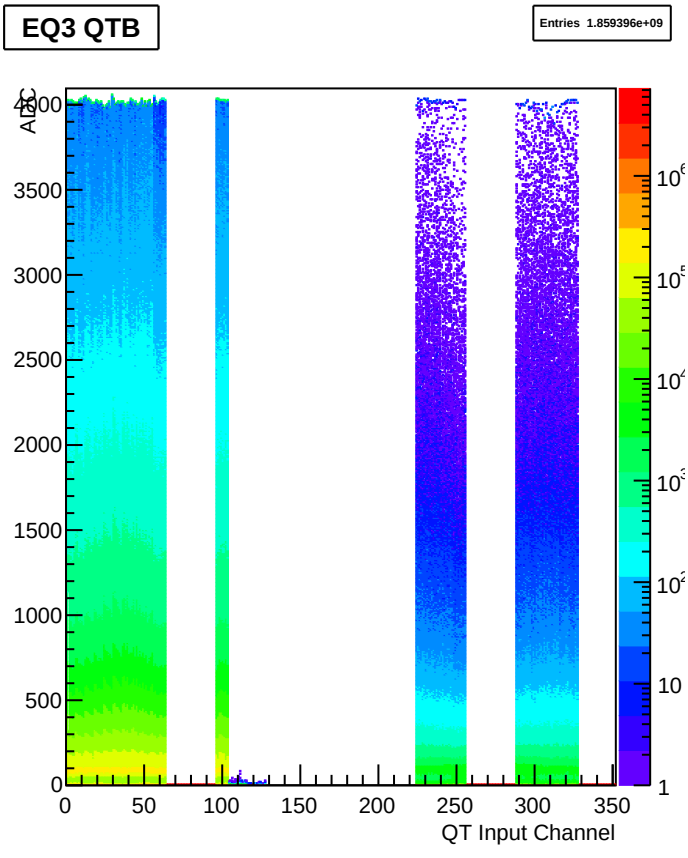

EQ1 QTC
Entries 6.972735e+08
TADC
QT Input Channel

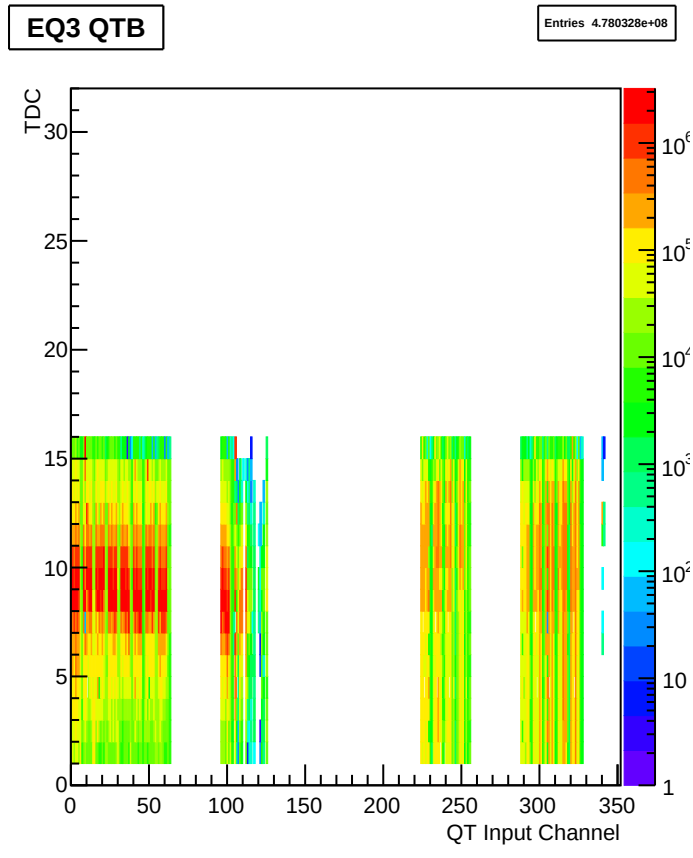

EQ2 QTB
Entries 2.091821e+09
ADC
QT Input Channel

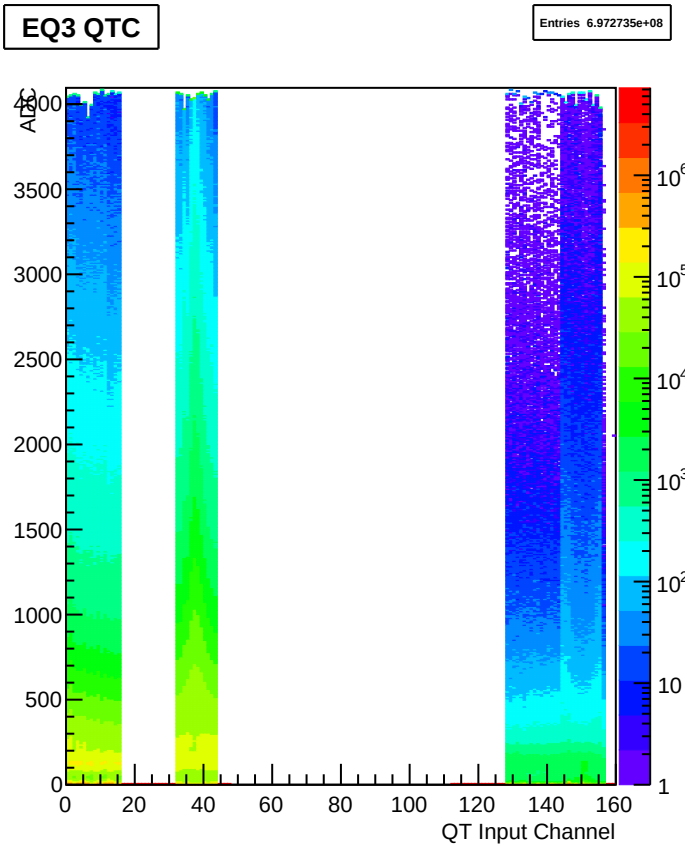

EQ2 QTB
Entries 8.77409e+08
TDC
QT Input Channel

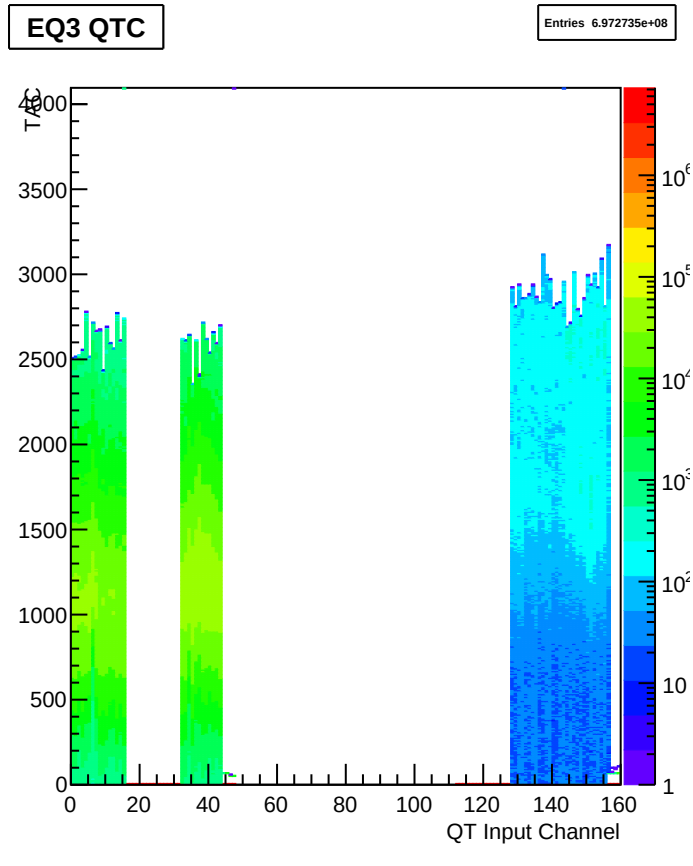

EQ2 QTC
Entries 6.972735e+08
ADC
QT Input Channel

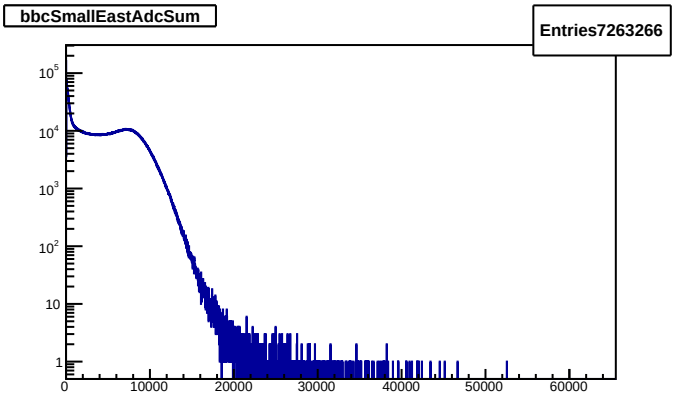

EQ2 QTC
Entries 6.972735e+08
TADC
QT Input Channel

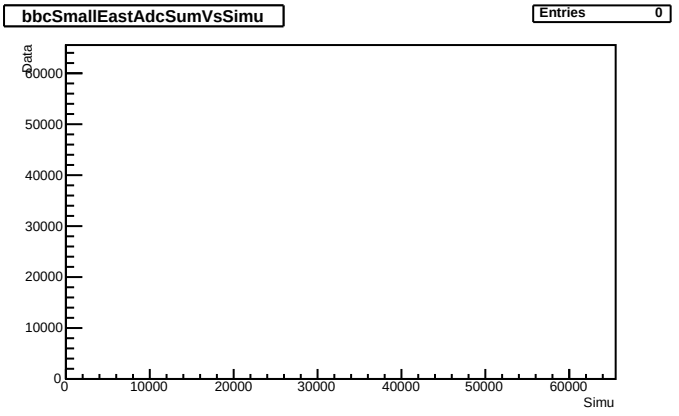

EQ3 QTB
Entries 1.859396e+09
ADC
QT Input Channel

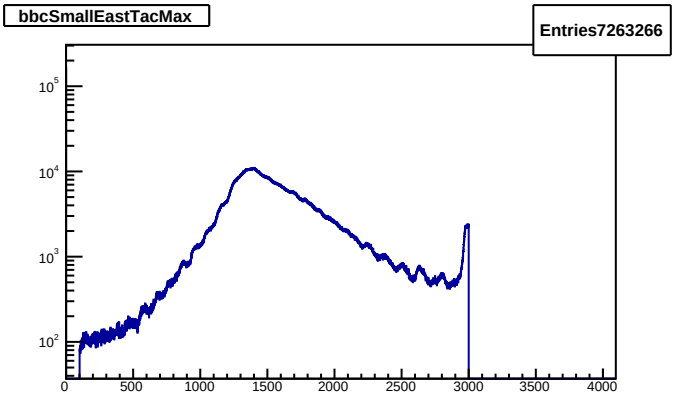

EQ3 QTB
Entries 4.780328e+08
TDC
QT Input Channel

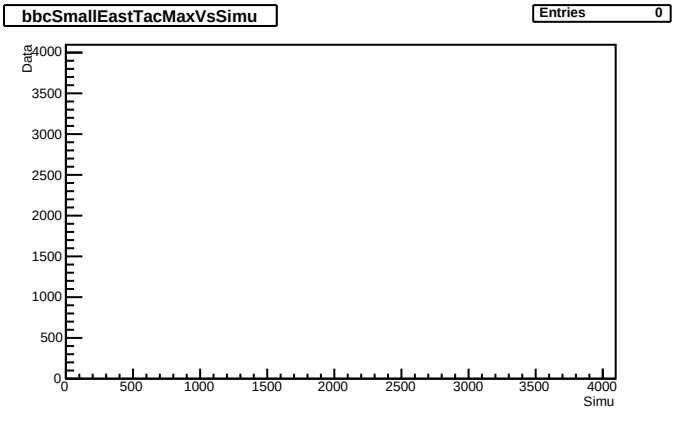

EQ3 QTC
Entries 6.972735e+08
ADC
QT Input Channel


EQ3 QTC
Entries 6.972735e+08
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries7263266


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries7263266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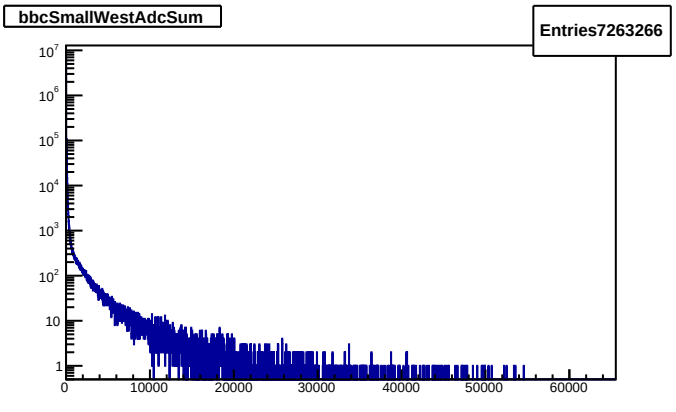
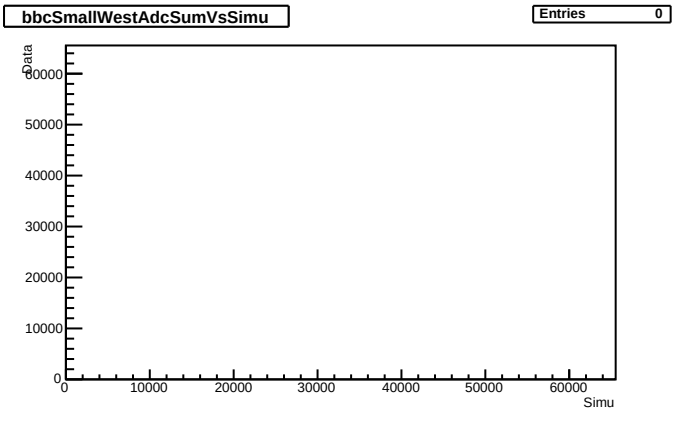
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries7263266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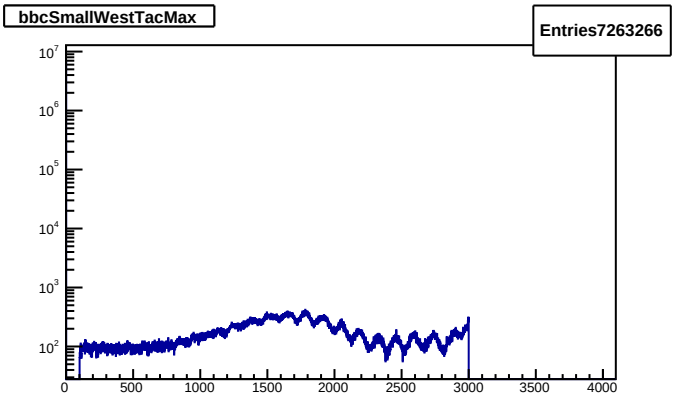
Entries 0
Data
Simu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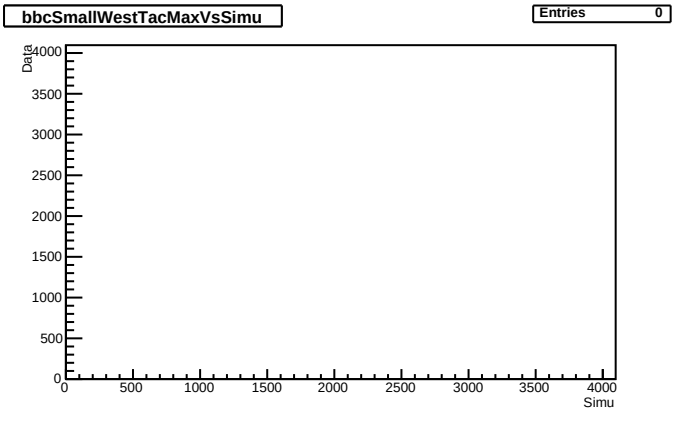
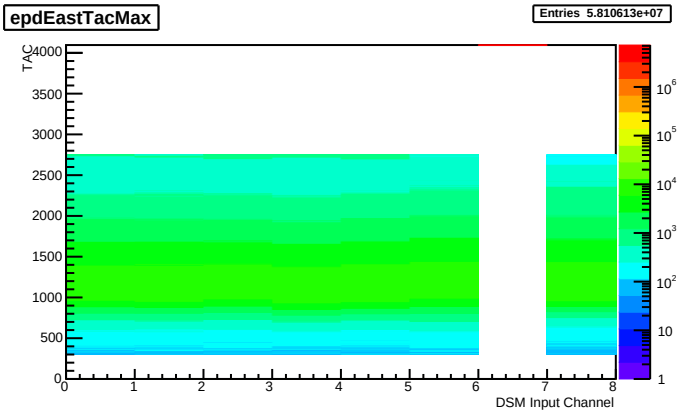
Entries7263266


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu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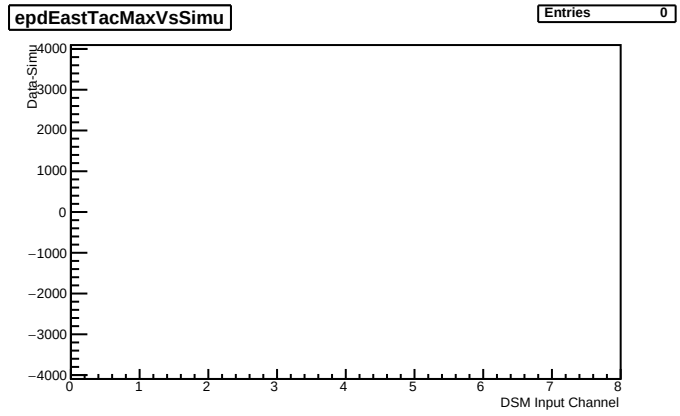
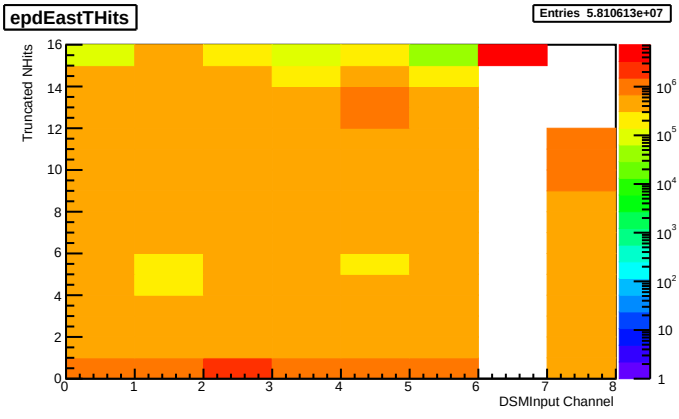
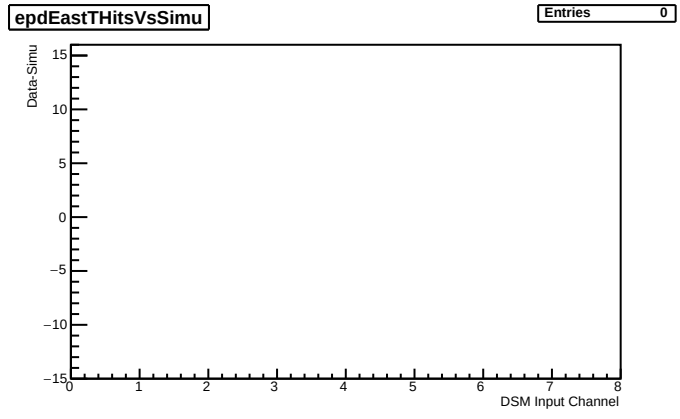
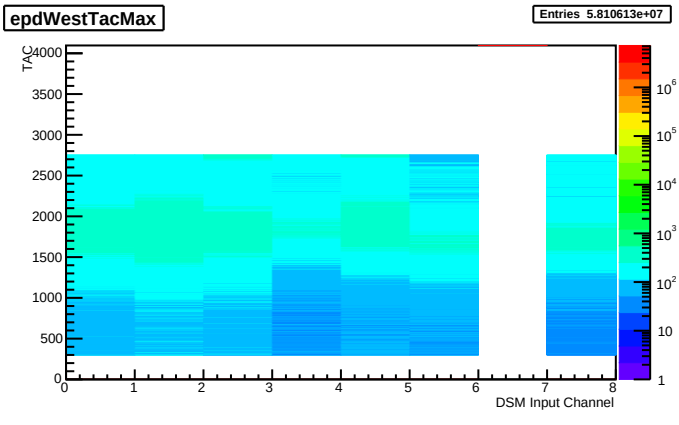
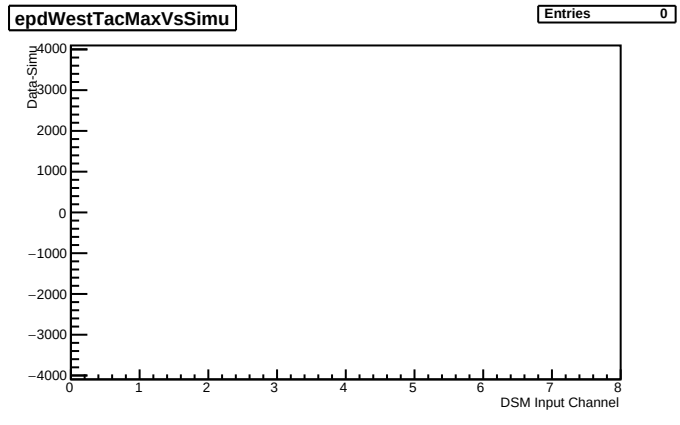
TAC
DSM Input Channel

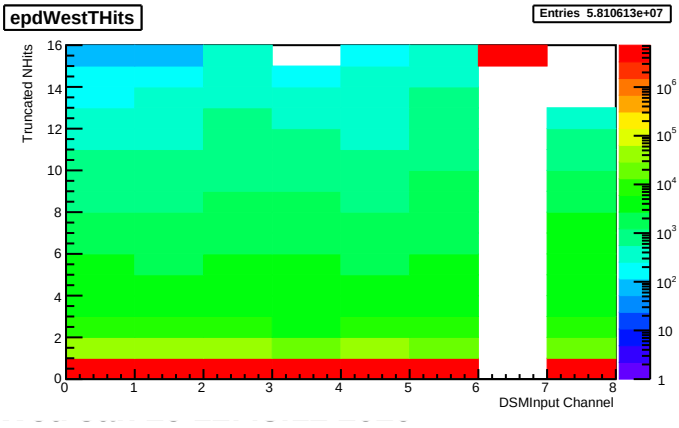

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

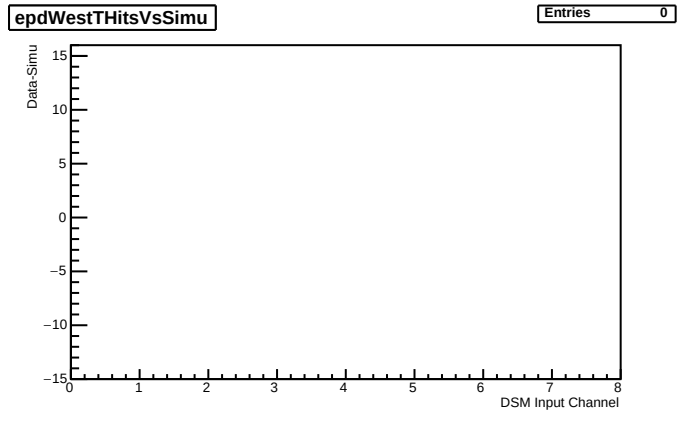

epdEastTHits
Entries 5.810613e+07
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 5.810613e+07
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 5.810613e+07
Truncated NHits
DSMInput Channel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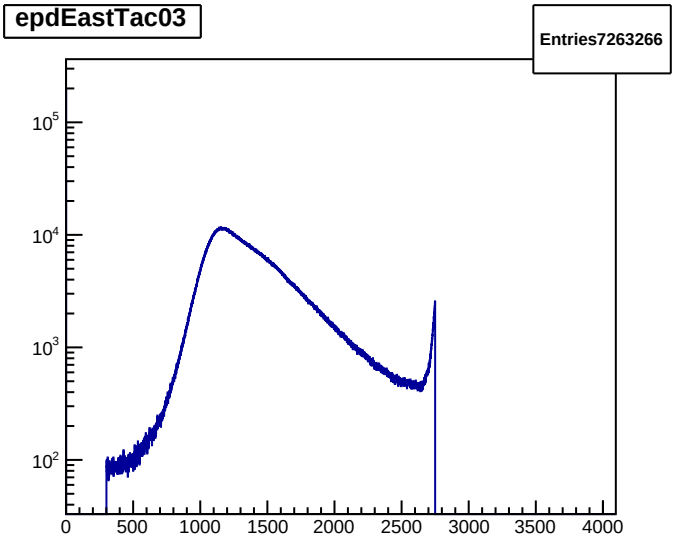
Entries 0
Data-Simu
DSM Input Channel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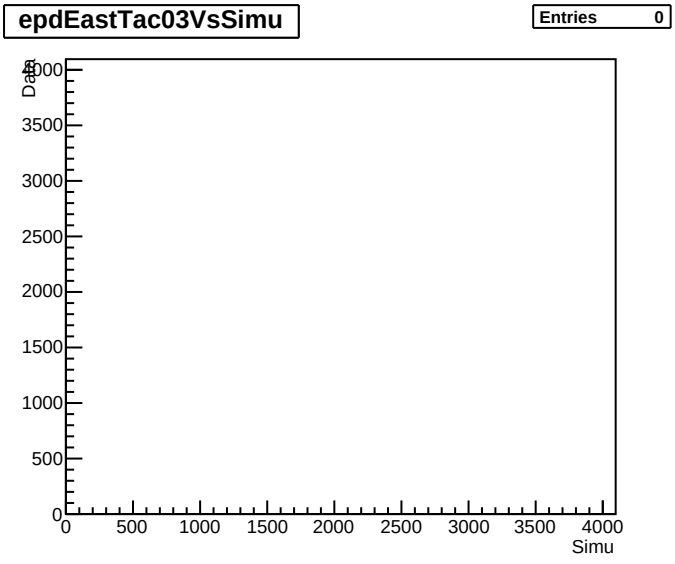
Entries7263266
10^5
10^4
10^3
10^2
0 500 1000 1500 2000 2500 3000 3500 4000


epdEastTac03VsSimu
Entries 0
Data
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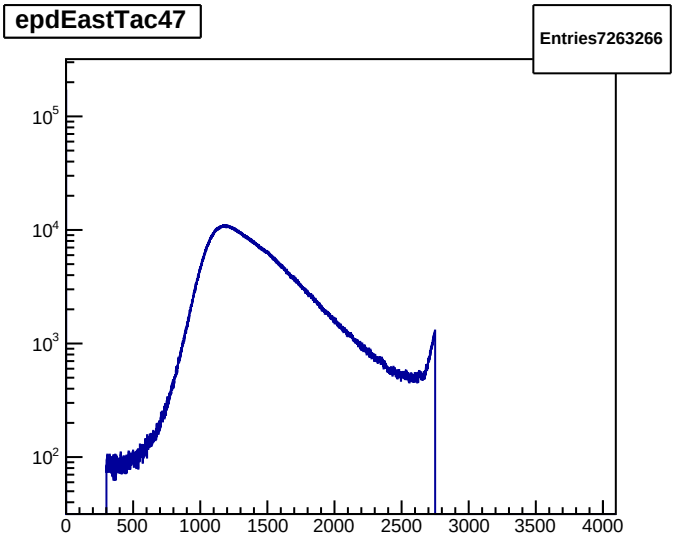
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastTac47
Entries7263266
10^5
10^4
10^3
10^2
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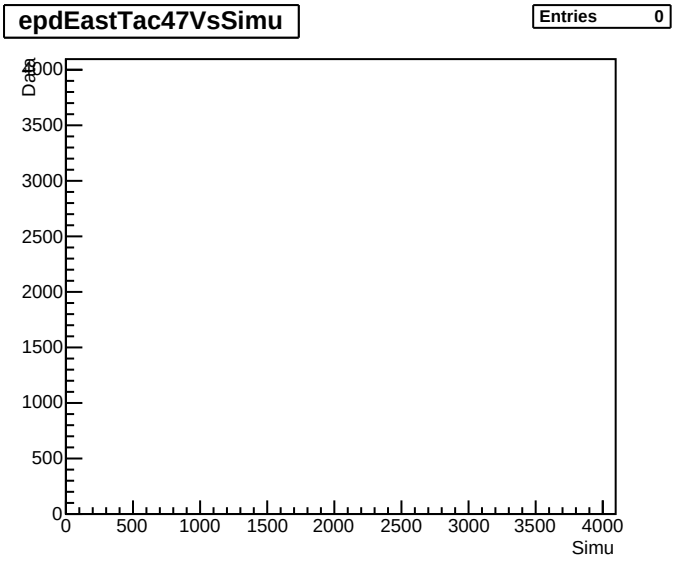
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Entries 0
Data
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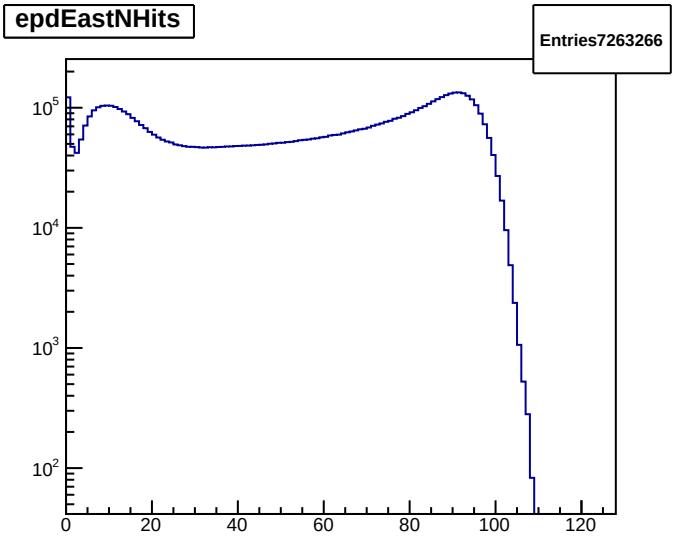
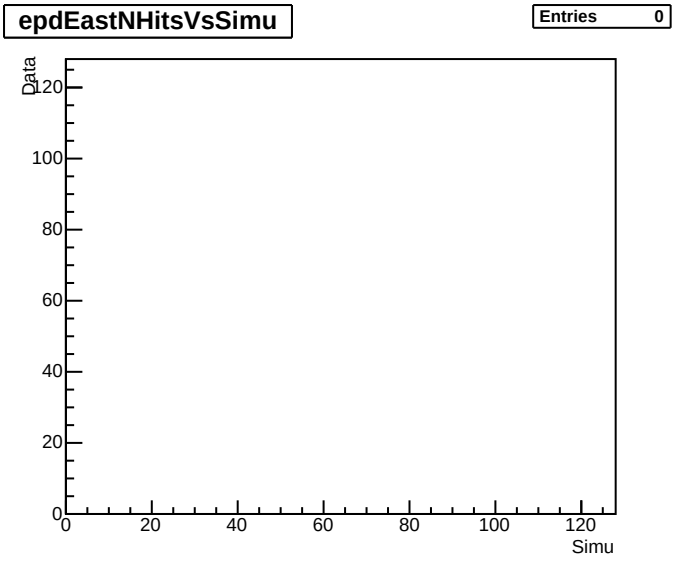
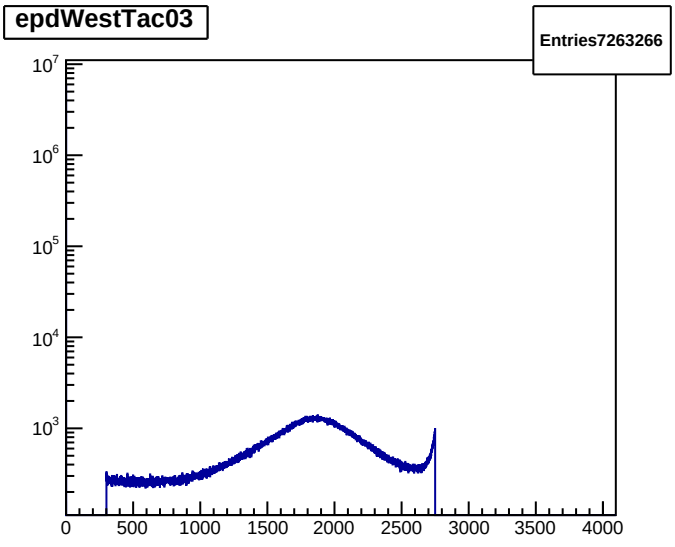
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastNHits
Entries7263266
10^5
10^4
10^3
10^2
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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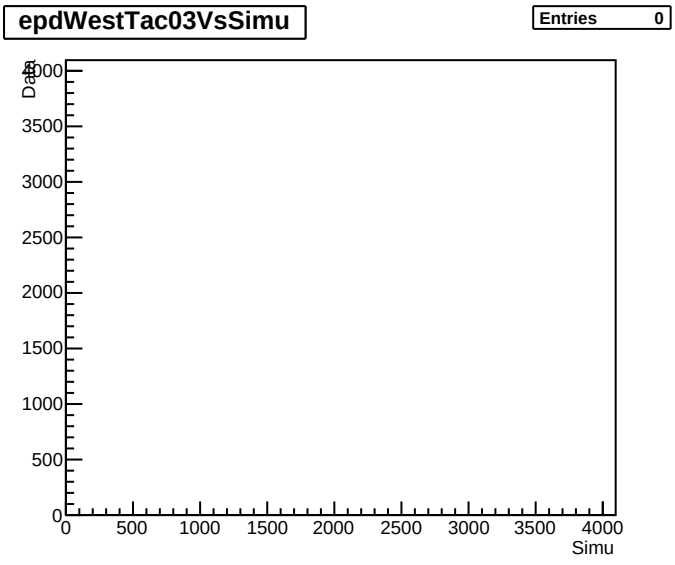
Entries7263266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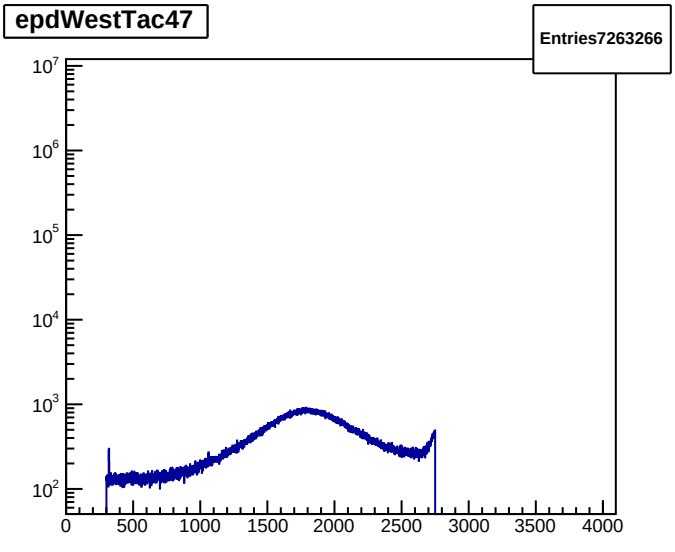
Entries 0
Data
Simu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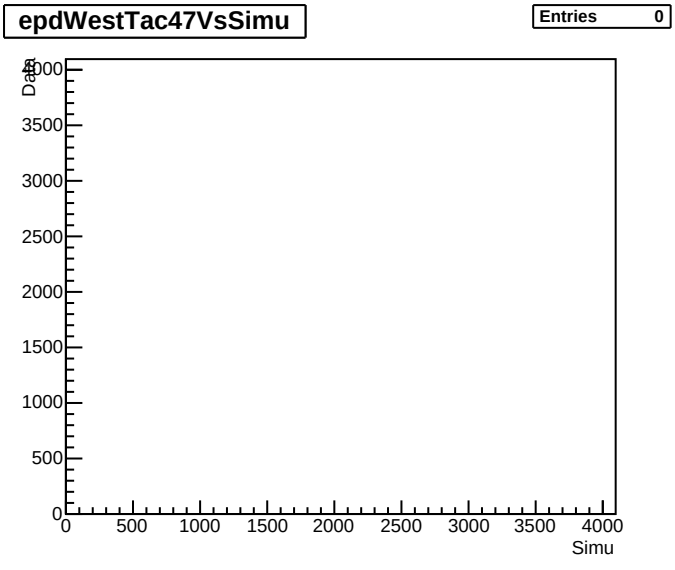
Entries7263266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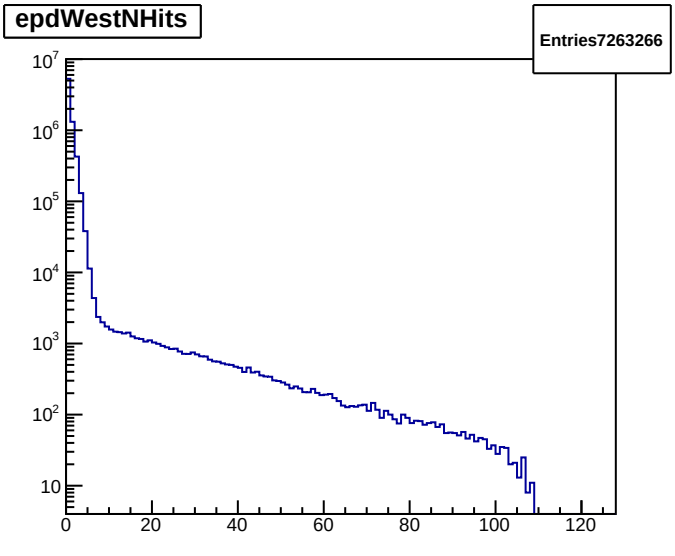
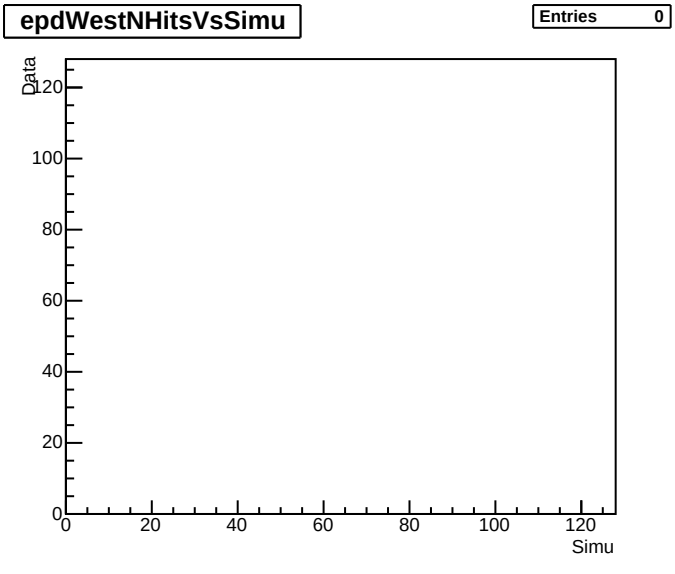
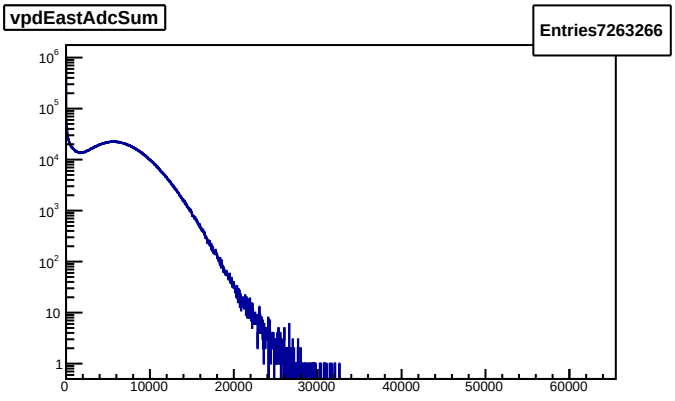
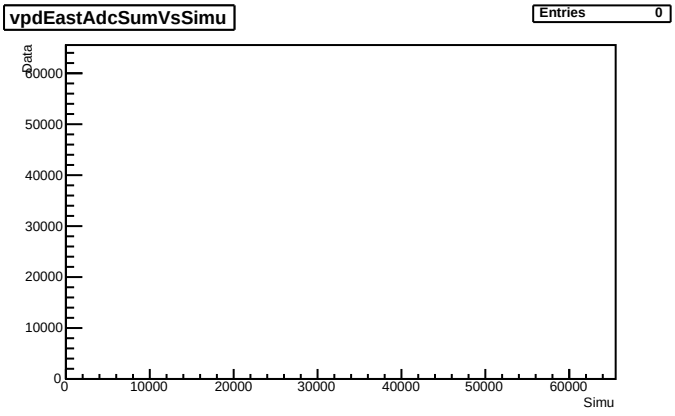
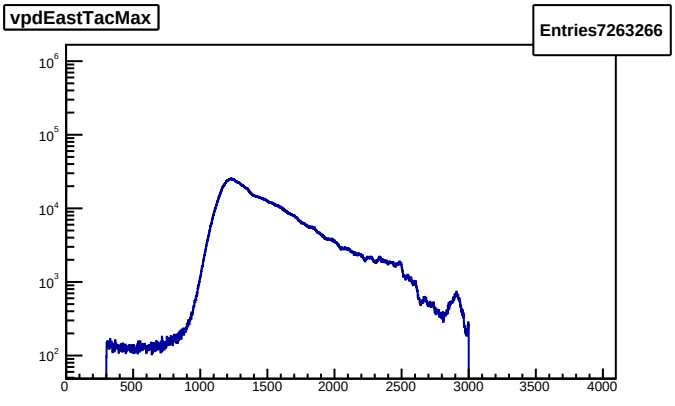
Entries 0
Data
Simu

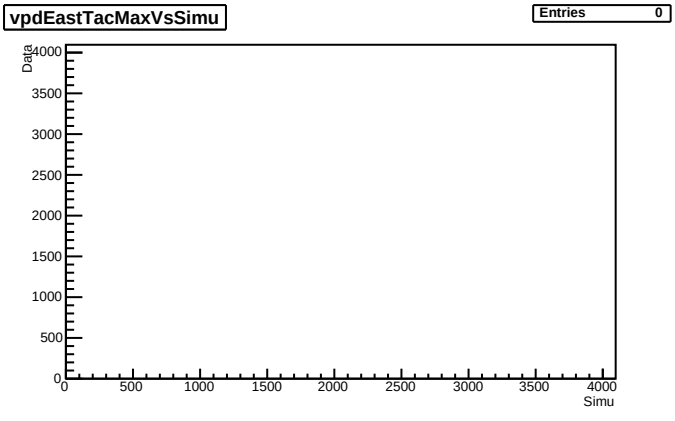

epdWestNHits
Entries7263266

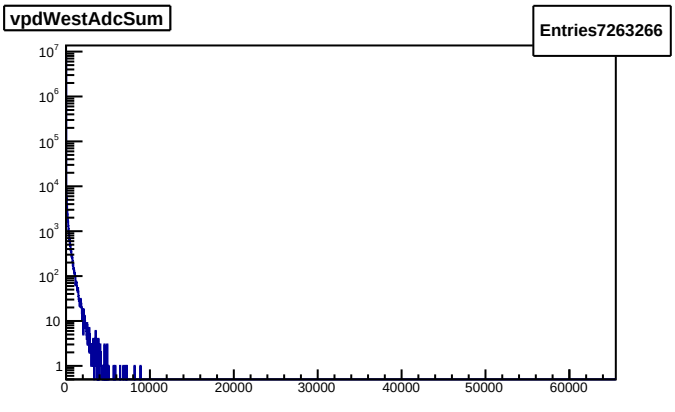

epdWestNHitsVsSimu
Entries 0
Data
Simu

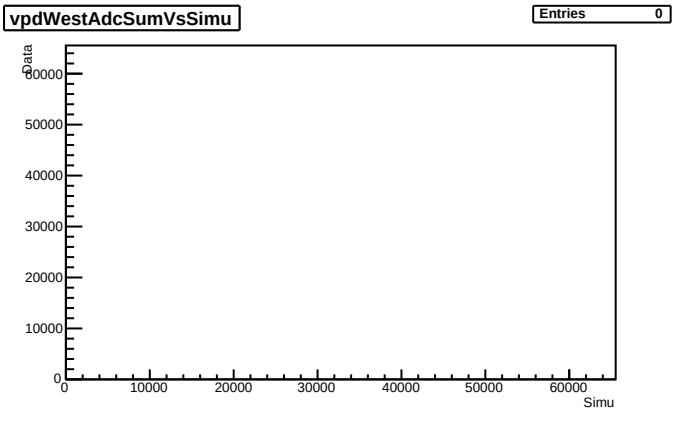

vpdEastAdcSum
Entries7263266

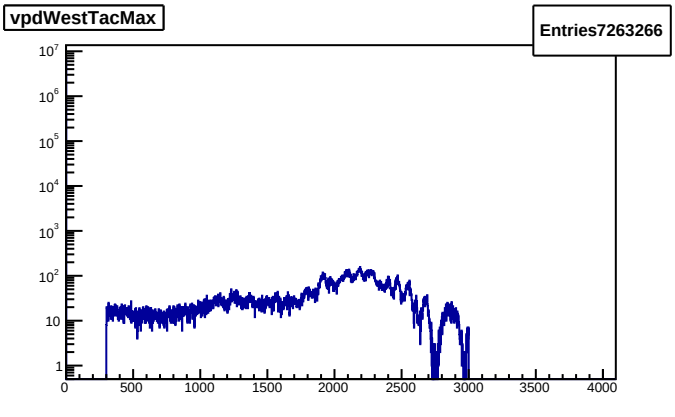

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

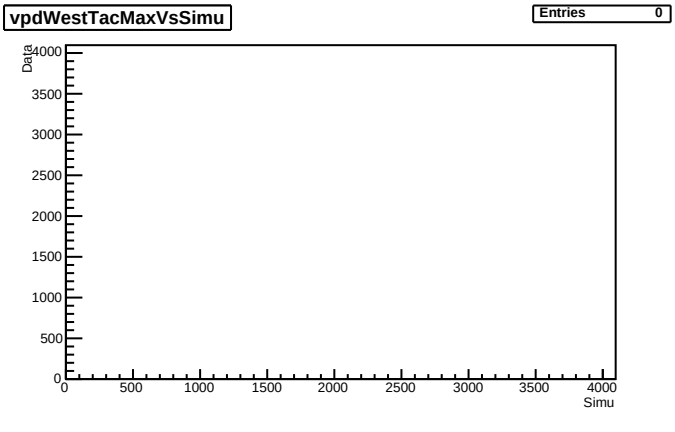

vpdEastTacMax
Entries7263266

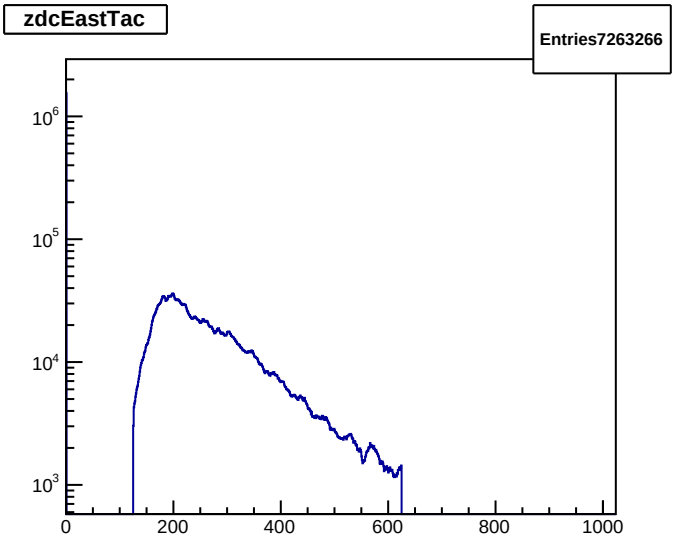

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

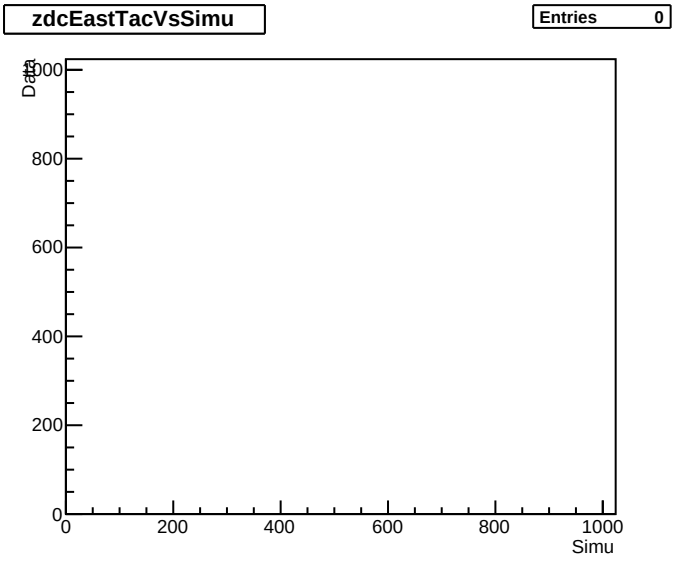

vpdWestAdcSum
Entries7263266

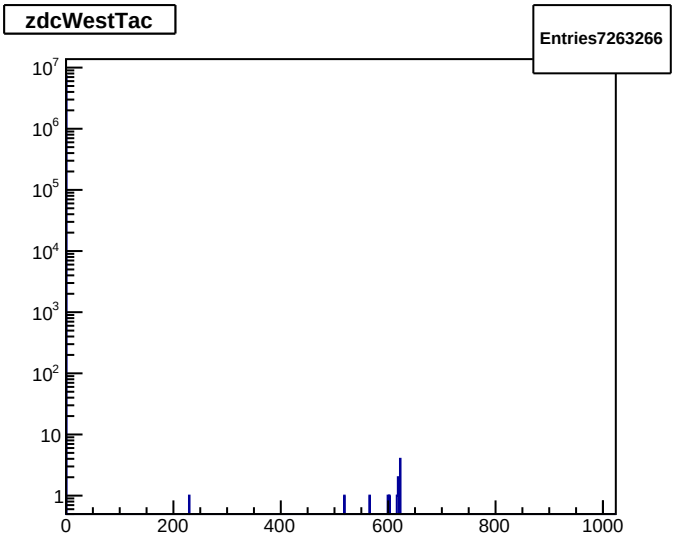

vpdWestAdcSumVsSimu
Entries 0
Data
Simu


vpdWestTacMax
Entries7263266


vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries7263266
10^6
10^5
10^4
10^3
0
200
400
600
800
1000


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


zdcWestTac
Entries7263266
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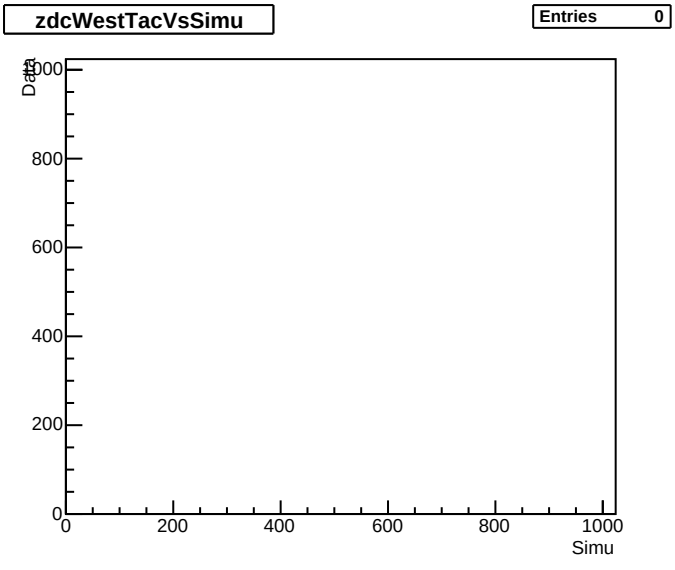
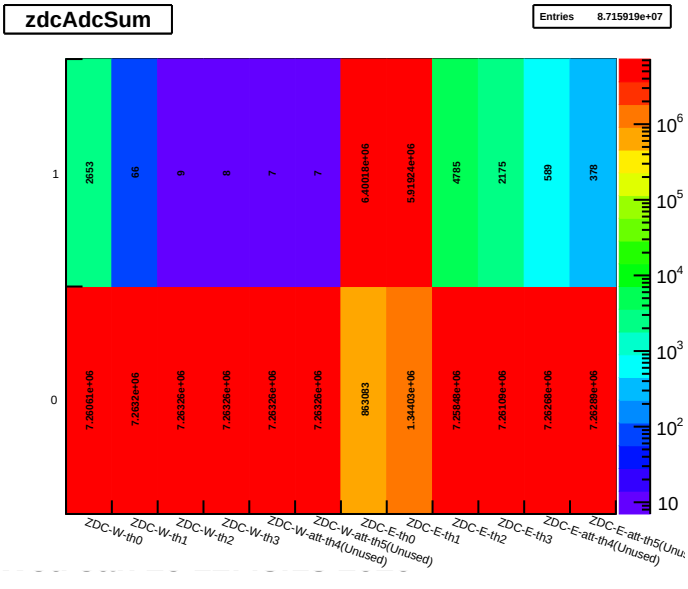
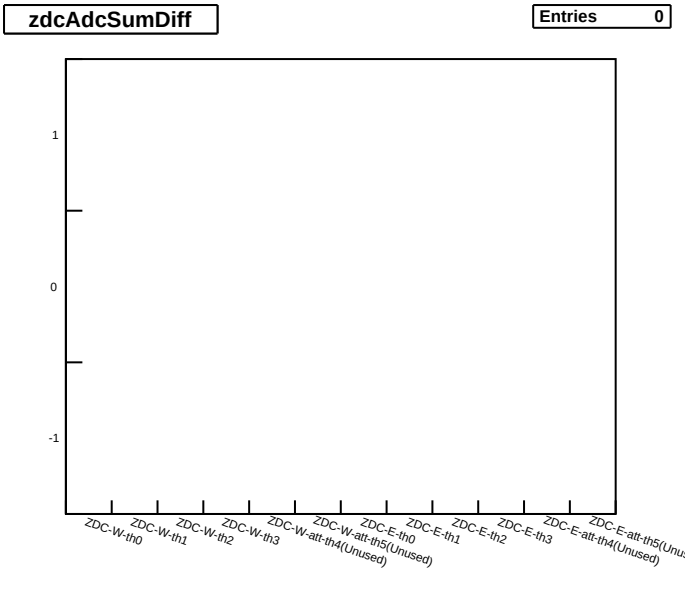
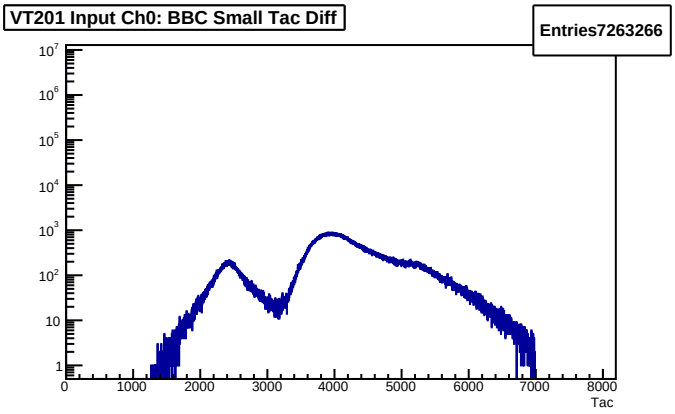
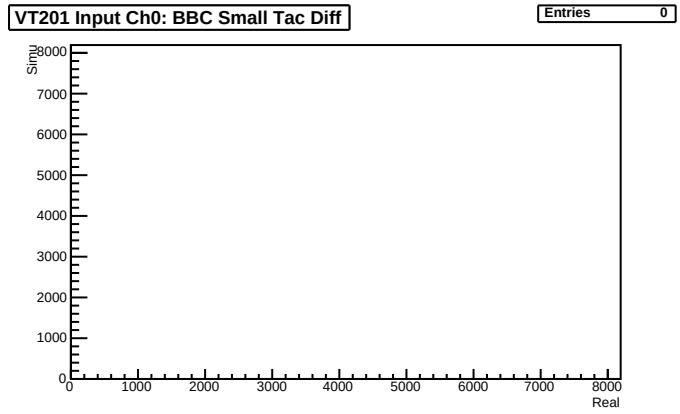
10^6
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

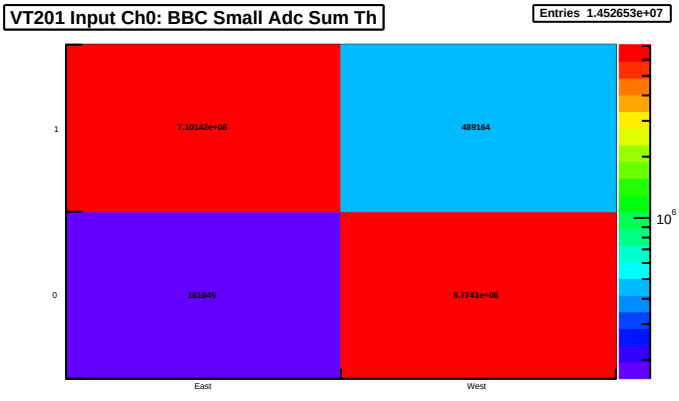

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

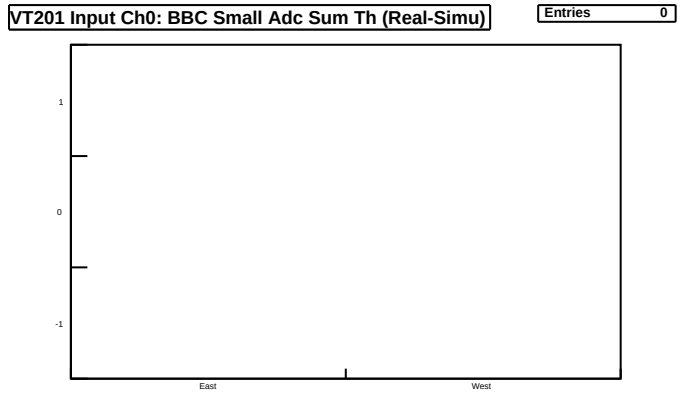

zdcAdcSum
Entries 8.715919e+07
1
0
2653
66
9
8
7
7
6.40018e+06
5.91924e+06
4785
2175
589
378
7.28061e+06
7.26326e+06
863083
1.34403e+06
10^6
10^5
10^4
10^3
10^2
10
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

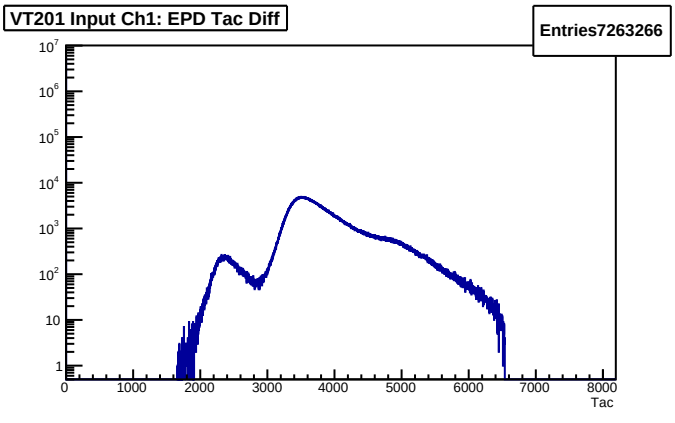

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

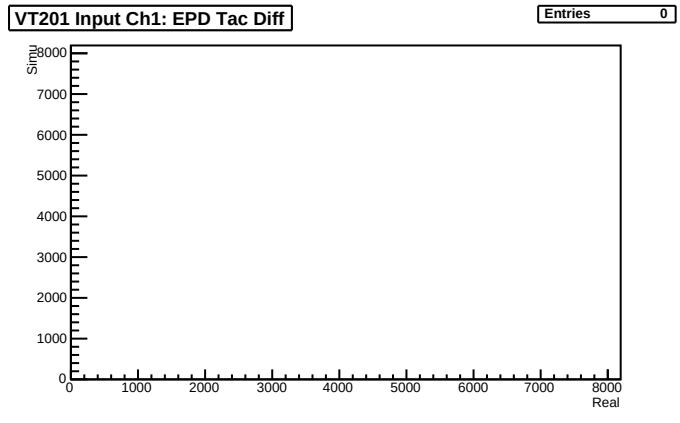

VT201 Input Ch0: BBC Small Tac Diff
Entries7263266
Tac

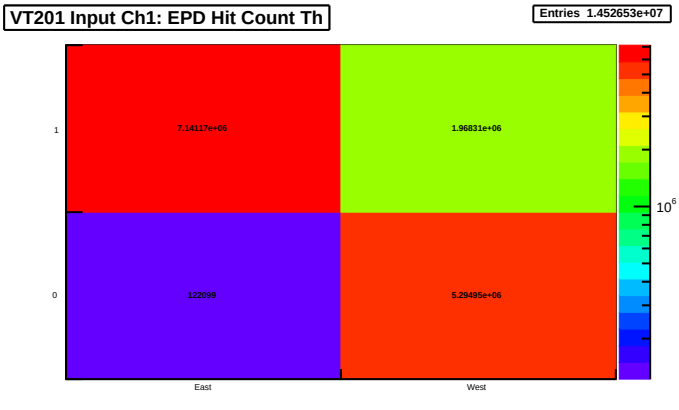

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

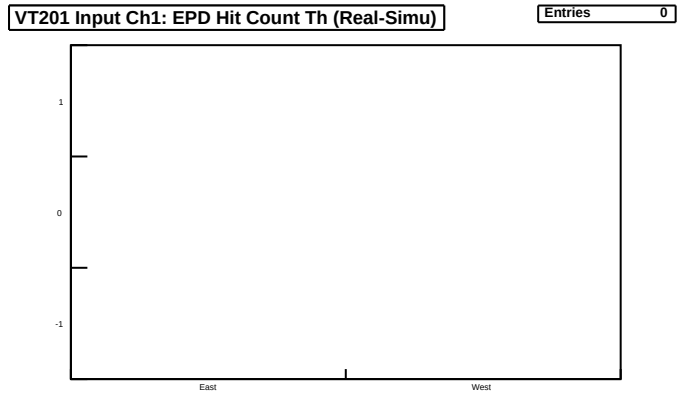

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1.452653e+07
7.10142e+06
489164
161849
6.7741e+06
East
West

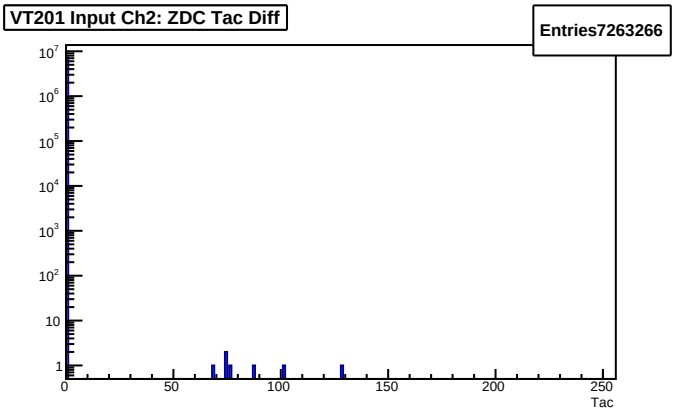

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

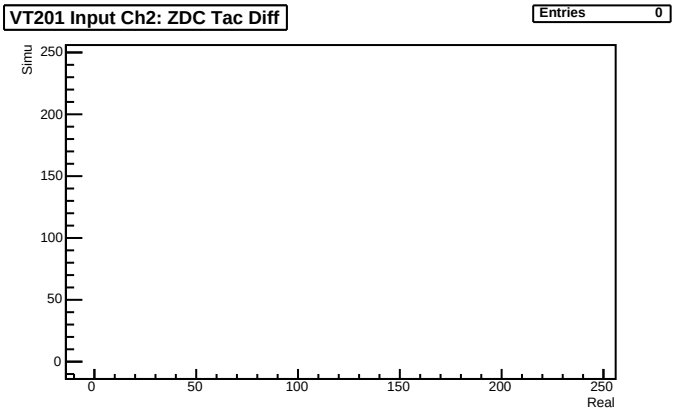

VT201 Input Ch1: EPD Tac Diff
Entries7263266
Tac

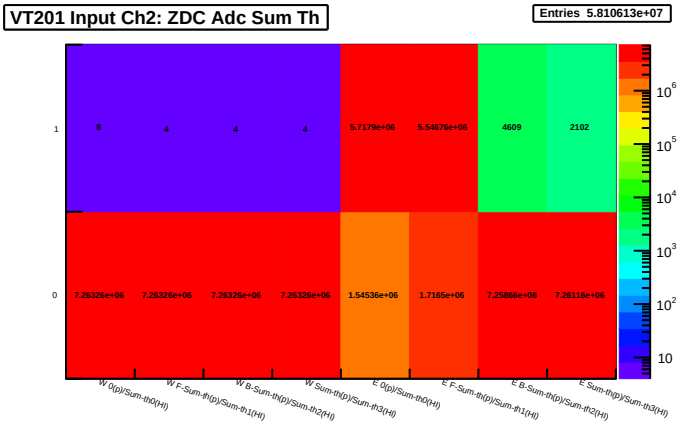

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

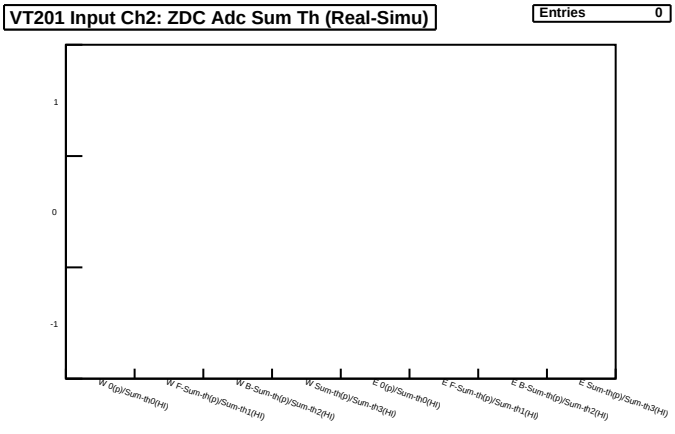

VT201 Input Ch1: EPD Hit Count Th
Entries 1.452653e+07
7.14117e+06
1.96831e+06
122099
5.29495e+06
East
West

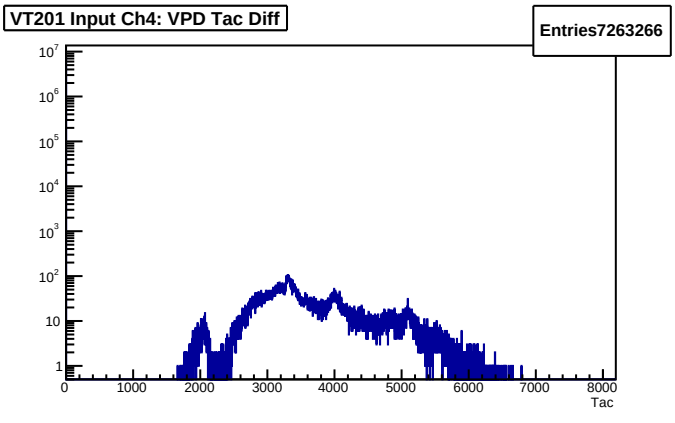

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

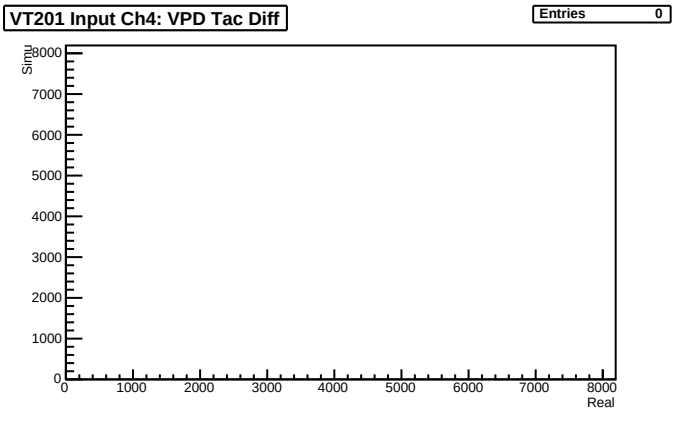

VT201 Input Ch2: ZDC Tac Diff
Entries7263266
Tac

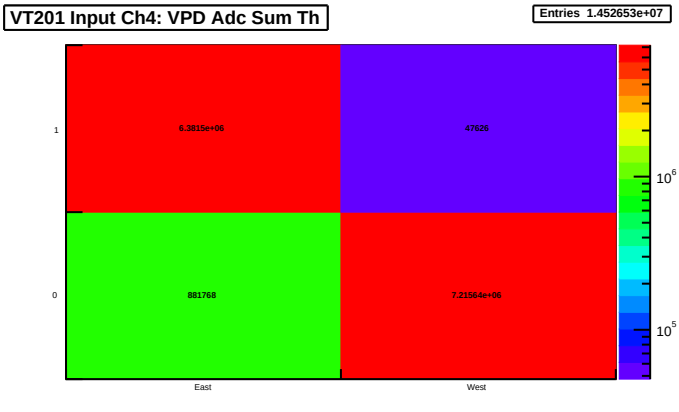

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

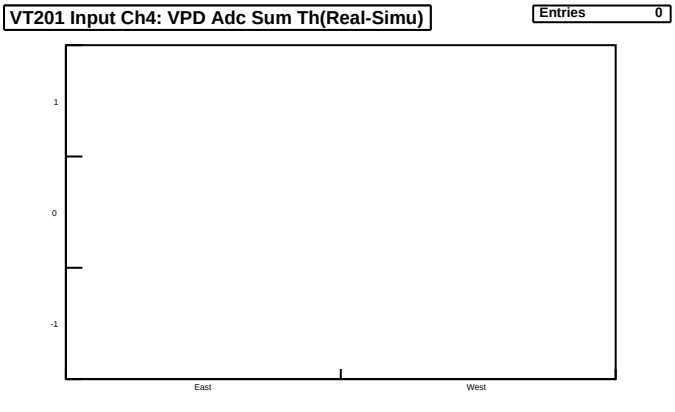

VT201 Input Ch2: ZDC Adc Sum Th
Entries 5.810613e+07
8
4
4
4
5.7179e+06
5.54676e+06
4609
2102
7.26326e+06
7.26326e+06
7.26326e+06
7.26326e+06
1.54536e+06
1.7165e+06
7.25866e+06
7.26116e+06
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

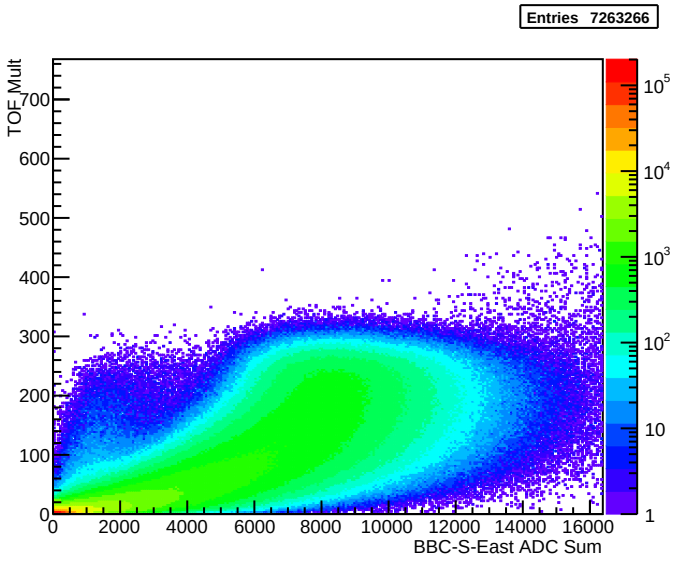

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

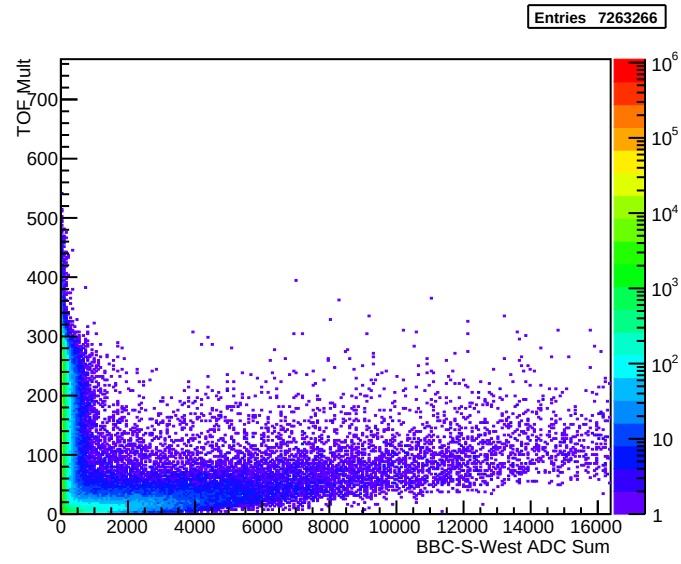

VT201 Input Ch4: VPD Tac Diff
Entries7263266
Tac

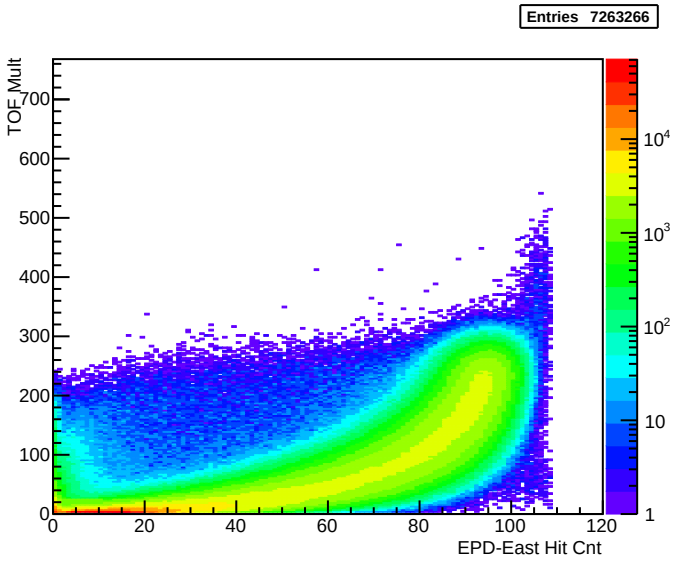

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

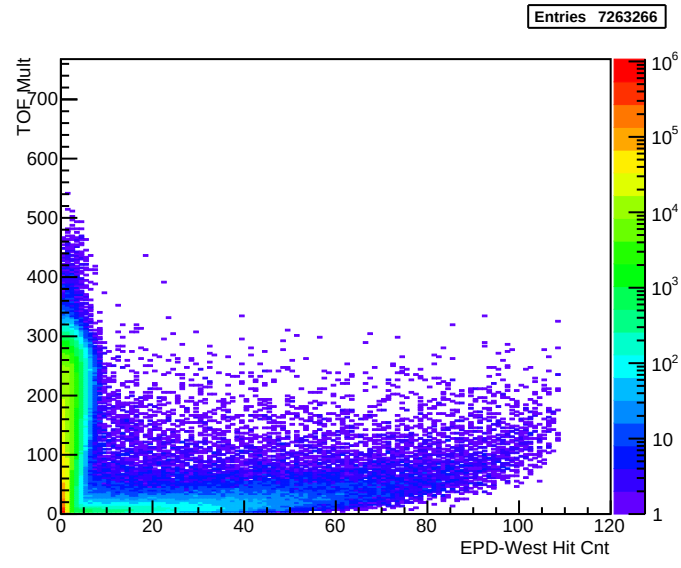

VT201 Input Ch4: VPD Adc Sum Th
Entries 1.452653e+07
6.3815e+06
47626
881768
7.21564e+06
East
West

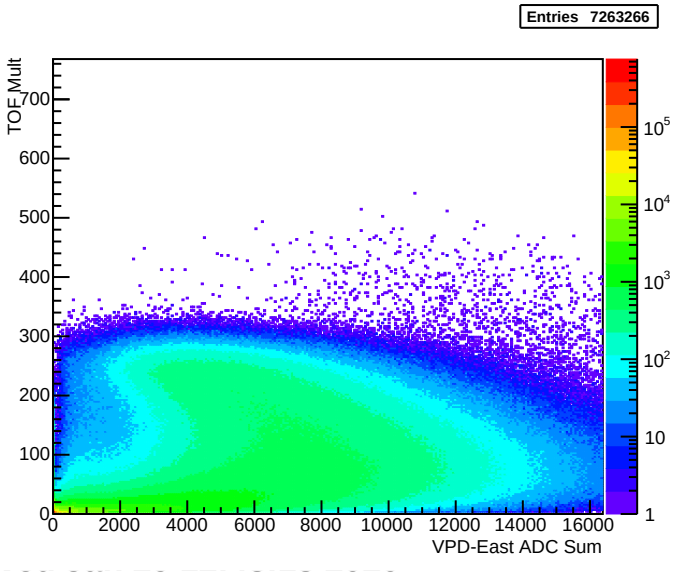

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

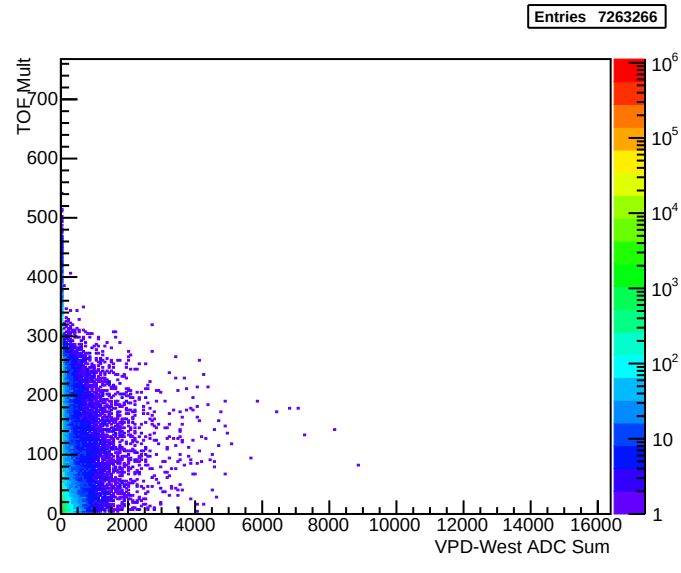

Entries 7263266
TOF_Mult
BBC-S-East ADC Sum

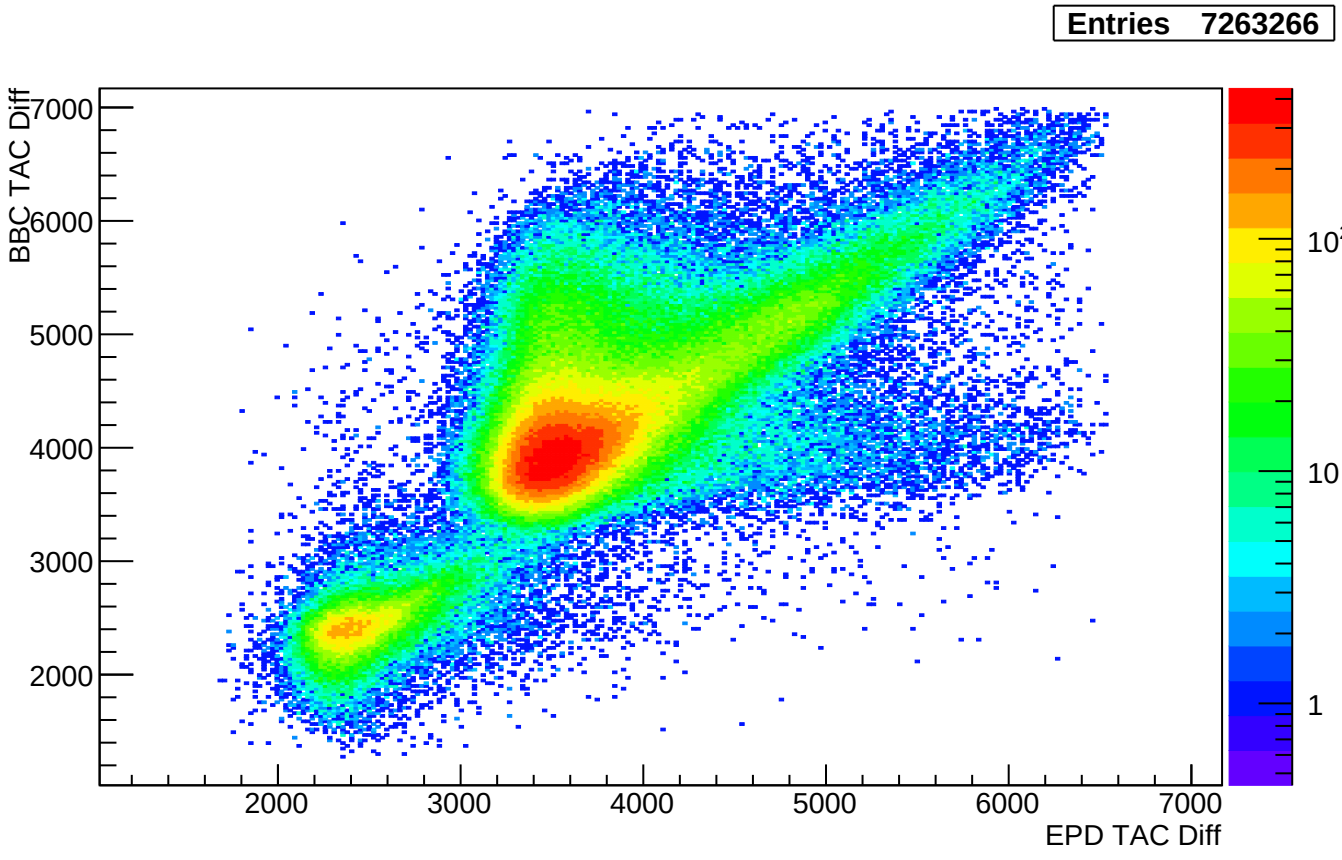

Entries 7263266
TOF_Mult
BBC-S-West ADC Sum

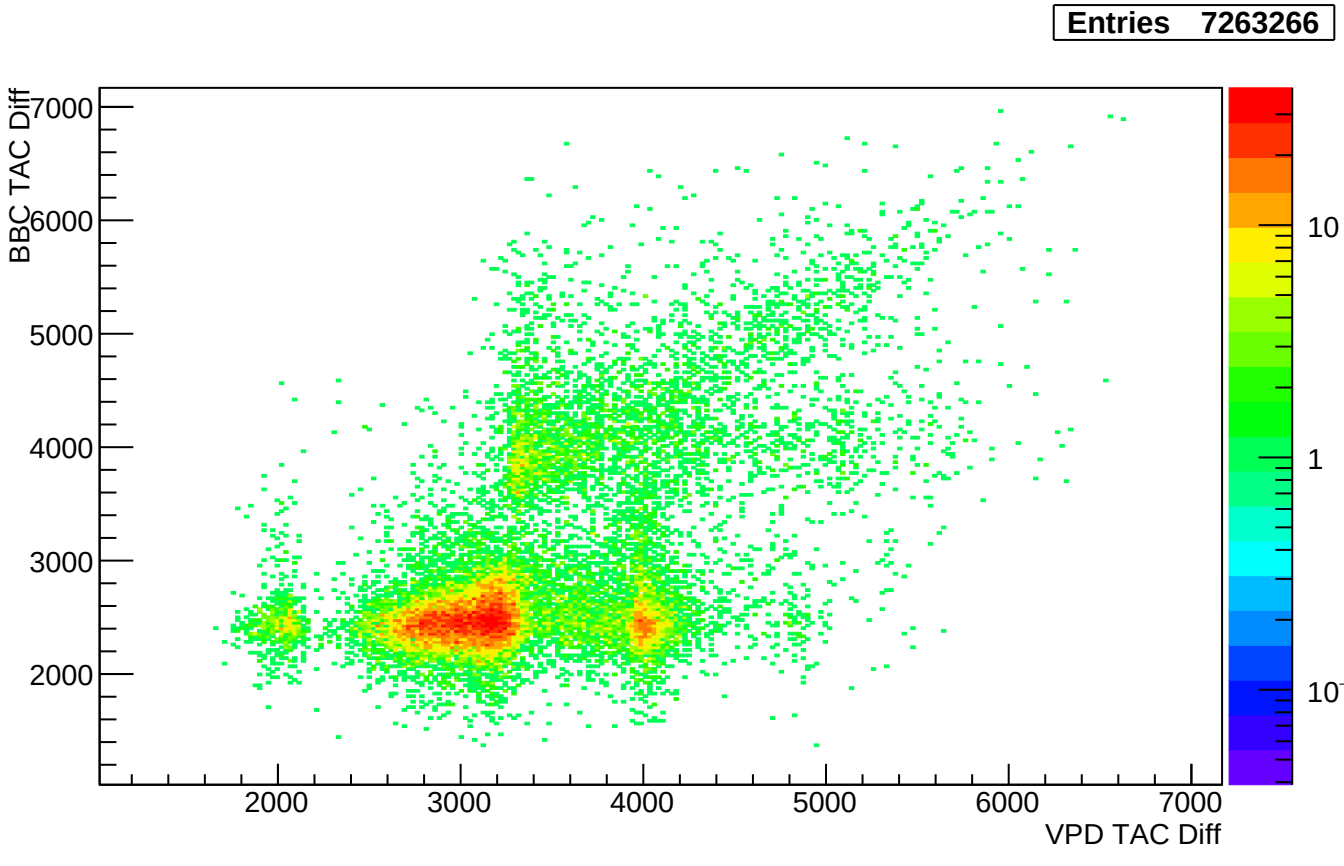

Entries 7263266
TOF_Mult
EPD-East Hit Cnt

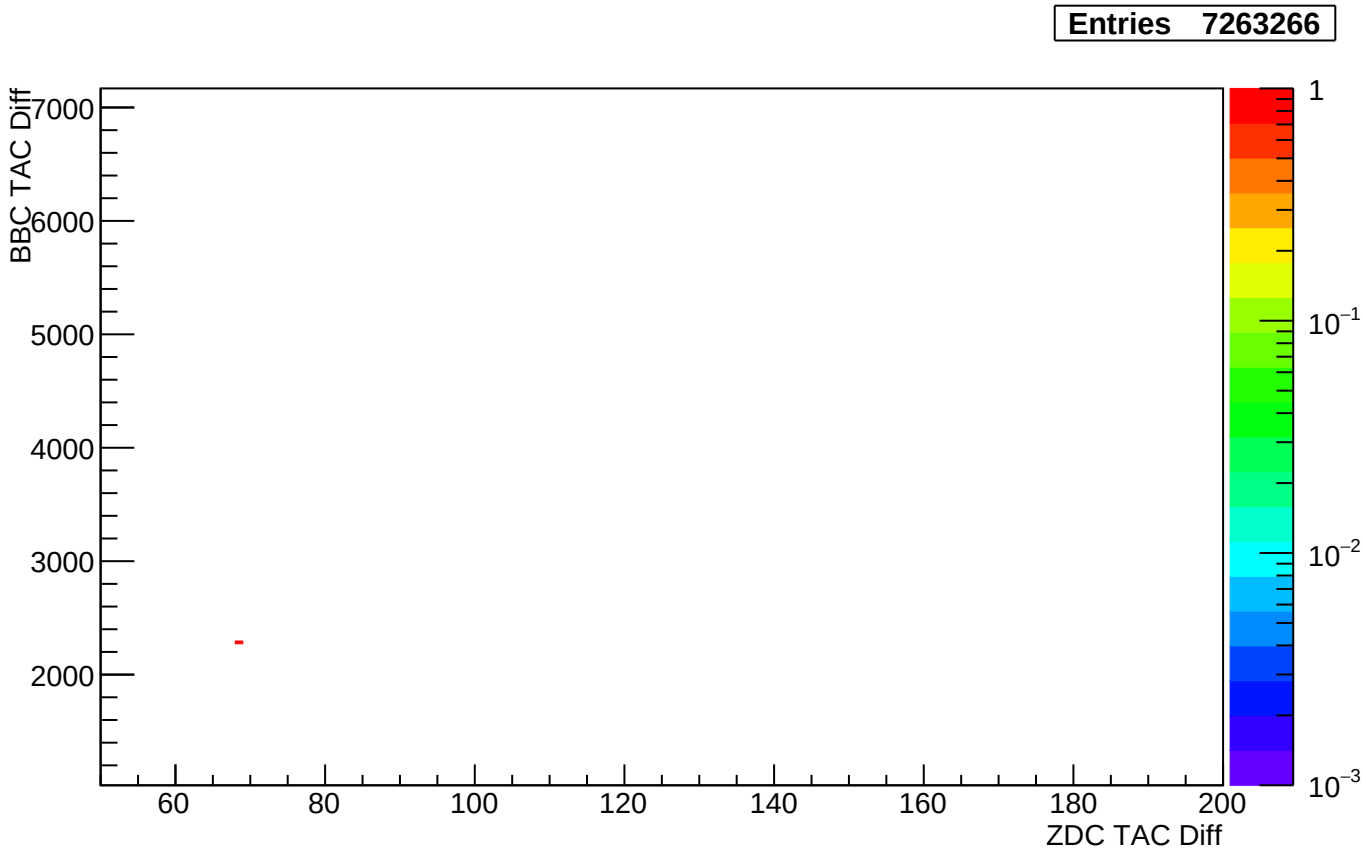

Entries 7263266
TOF_Mult
EPD-West Hit Cnt

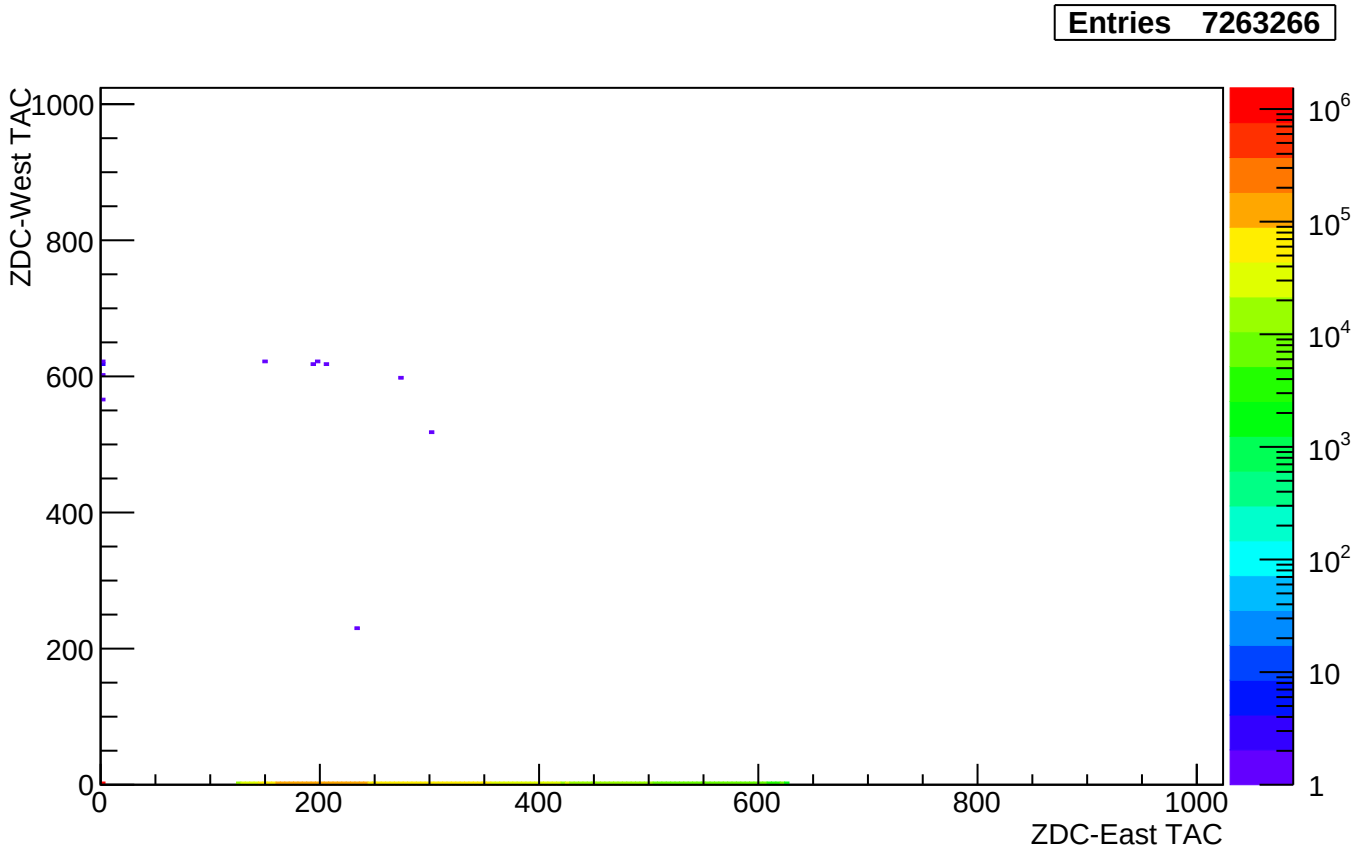

Entries 7263266
TOF_Mult
VPD-East ADC Sum

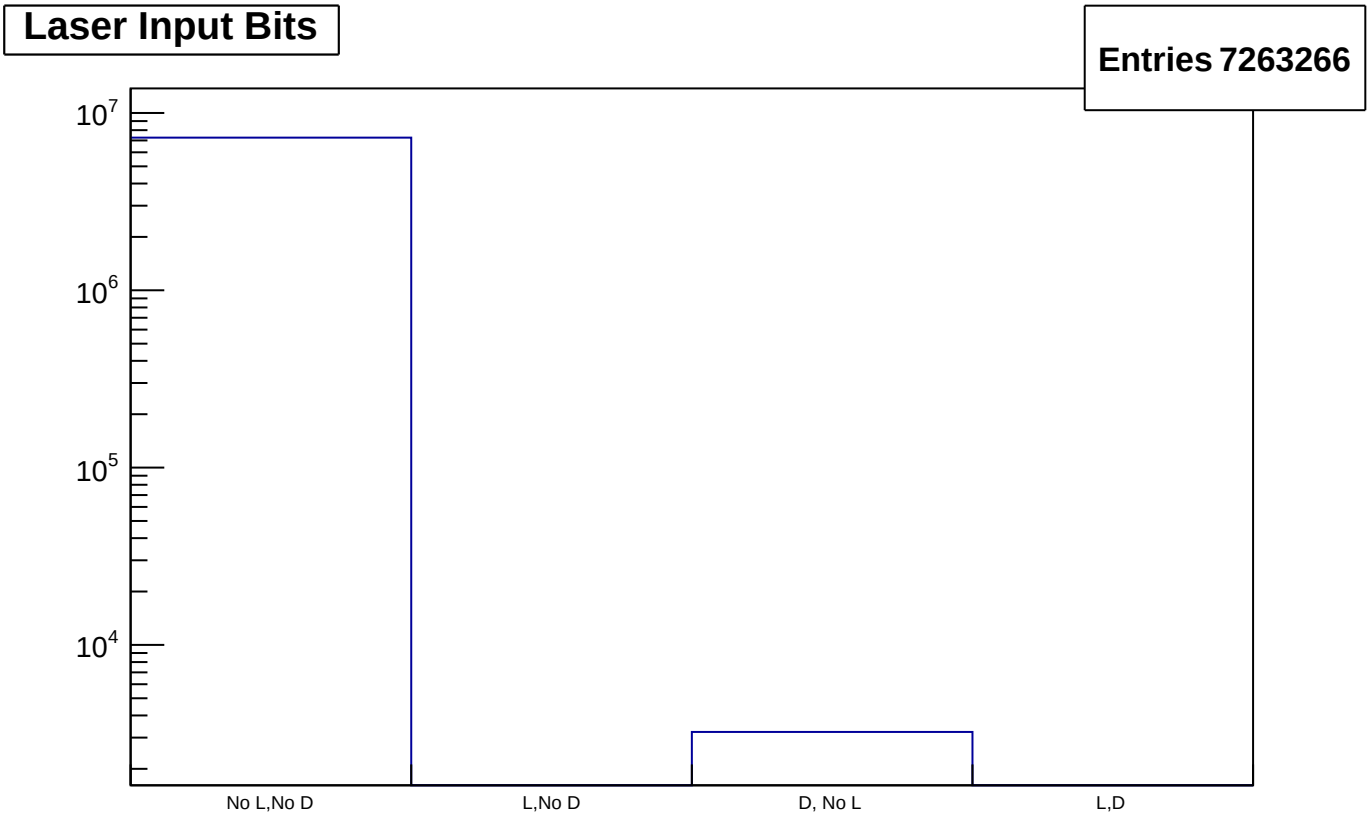

Entries 7263266
TOF_Mult
VPD-West ADC Sum

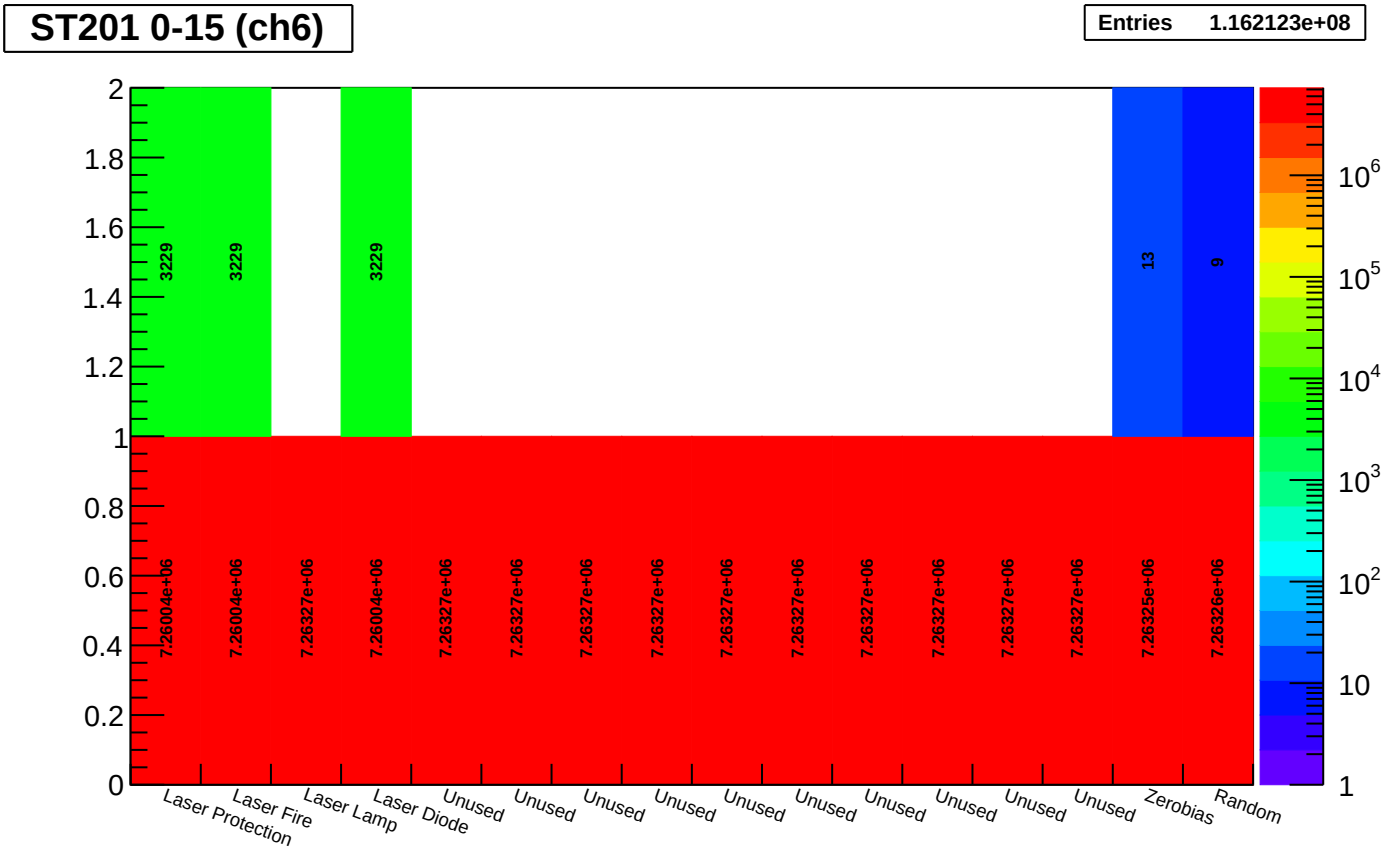

Entries 7263266
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

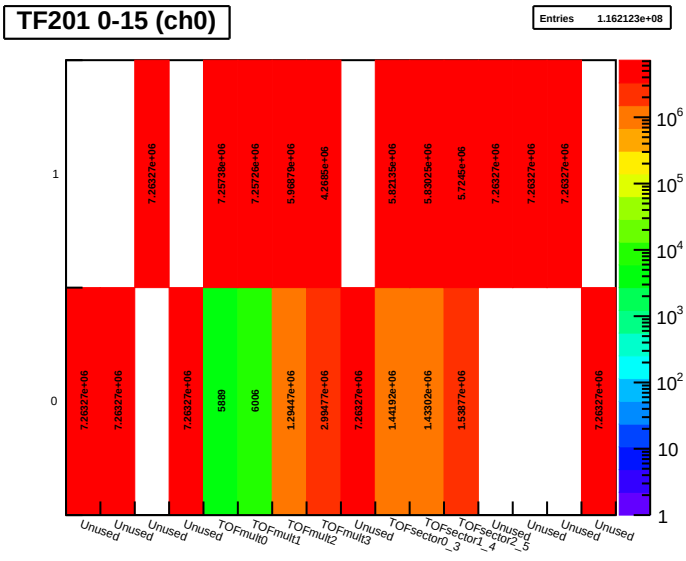

Entries 7263266
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10
1
10^{-1}

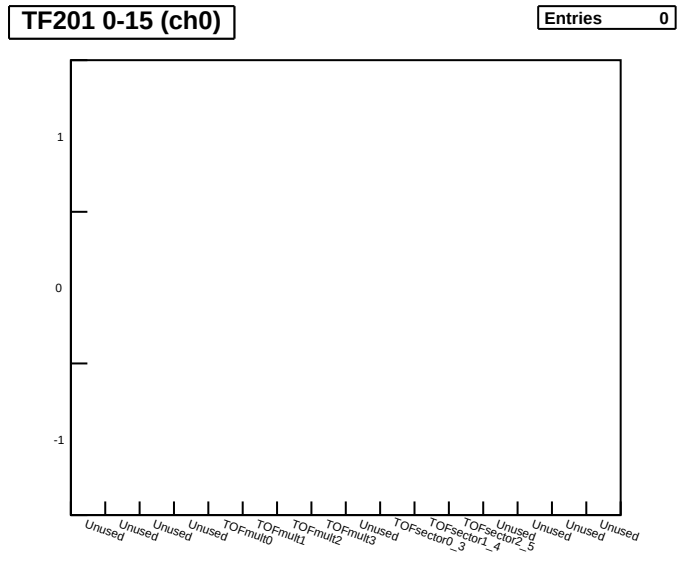

Entries 7263266
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

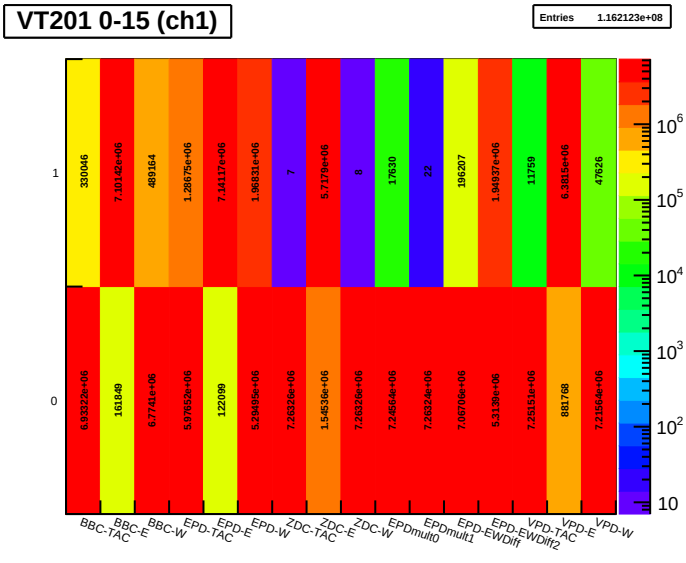

Entries 7263266
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^{6}
10^{5}
10^{4}
10^{3}
10^{2}
10
1

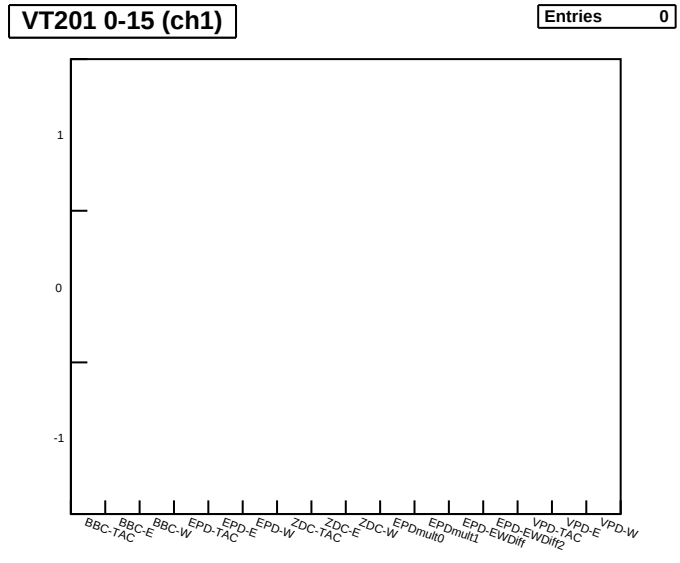

Laser Input Bits
Entries 7263266
10^7
10^6
10^5
10^4
No L,No D
L,No D
D, No L
L,D

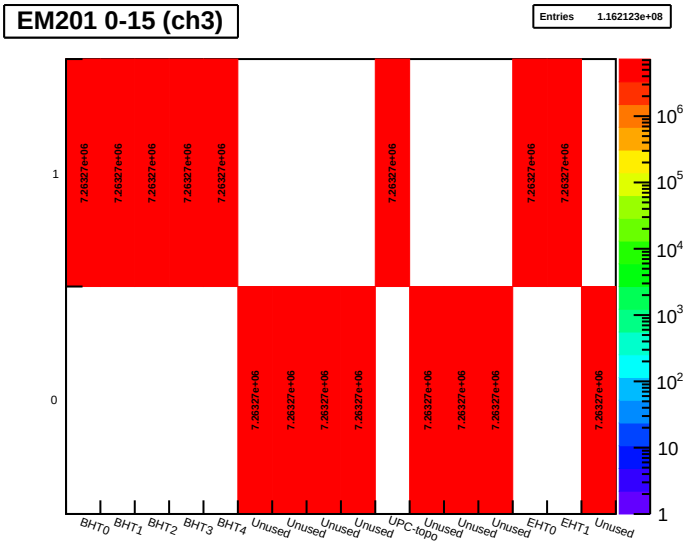

ST201 0-15 (ch6)
Entries 1.162123e+08
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3229
3229
3229
13
9
7.26004e+06
7.26004e+06
7.26327e+06
7.26004e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26325e+06
7.26326e+06
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^6
10^5
10^4
10^3
10^2
10
1

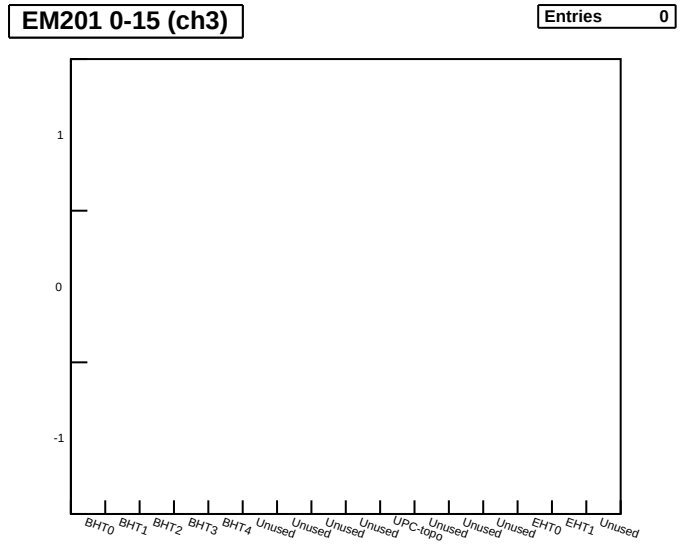

TF201 0-15 (ch0)
Entries 1.162123e+08
1
0
7.26327e+06
7.25738e+06
7.25726e+06
5.98878e+06
4.2685e+06
5.82135e+06
5.83025e+06
5.7245e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
5889
6006
1.29447e+06
2.99477e+06
7.26327e+06
1.44192e+06
1.43302e+06
1.53877e+06
7.26327e+06
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^6
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 1.162123e+08
1
0
330046
7.10142e+06
489164
1.28675e+06
7.14117e+06
1.96831e+06
7
5.7179e+06
8
17630
22
196207
1.94937e+06
11759
6.3815e+06
47626
6.93322e+06
161849
6.7741e+06
5.97652e+06
122099
5.23495e+06
7.26326e+06
1.54636e+06
7.26326e+06
7.24564e+06
7.26324e+06
7.06706e+06
5.3139e+06
7.25151e+06
881768
7.21564e+06
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
10^6
10^5
10^4
10^3
10^2
10


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 1.162123e+08
1
0
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
7.26327e+06
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^6
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