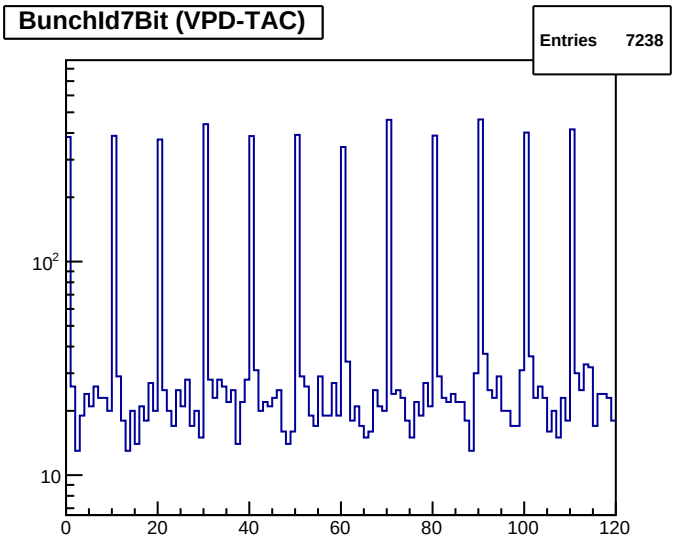
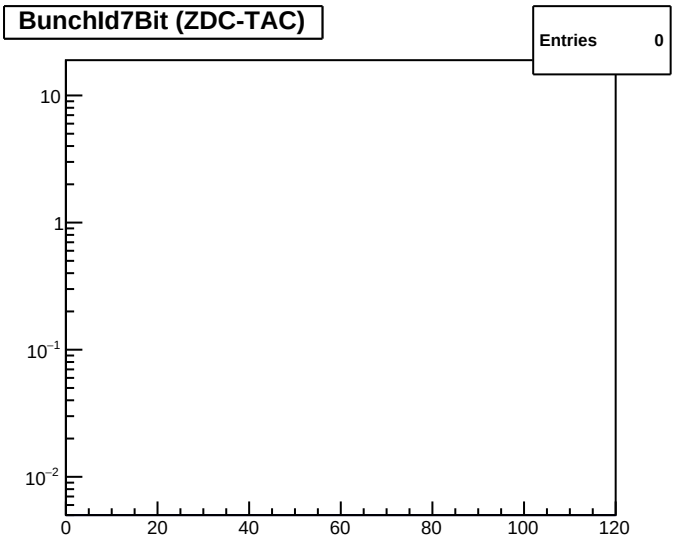
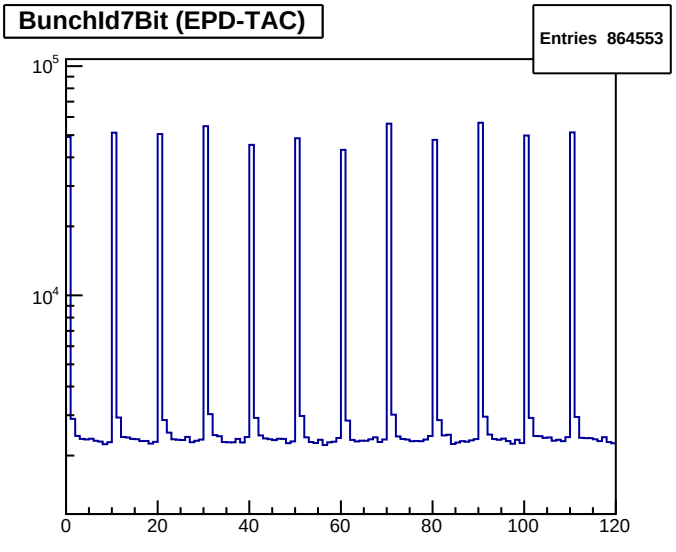
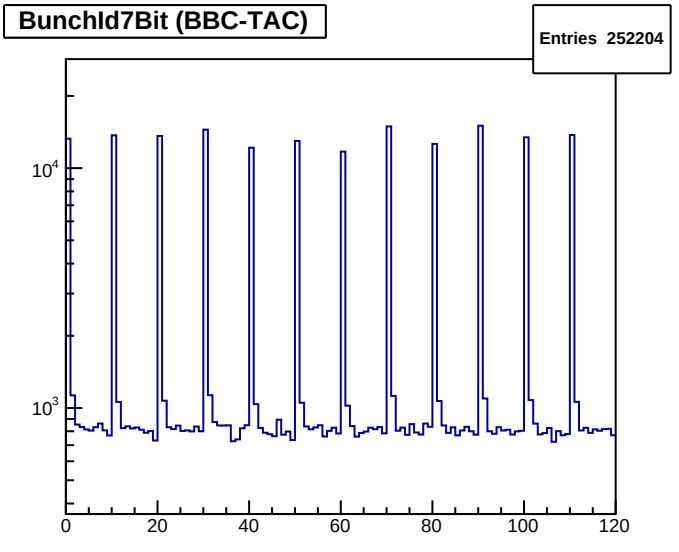
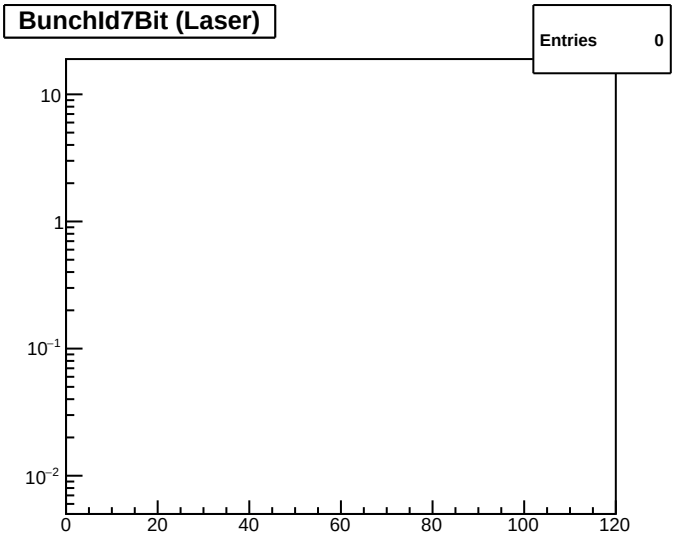
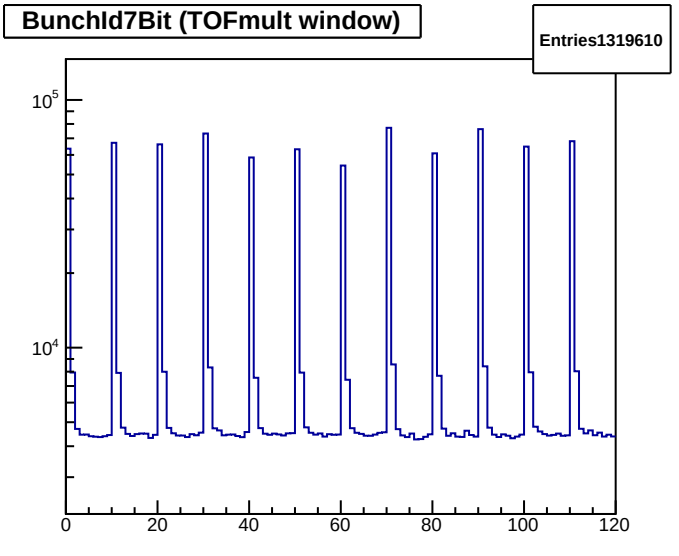

BunchId7Bit (VPD-TAC)
Entries 7238
$10^2$
10
0
20
40
60
80
100
120

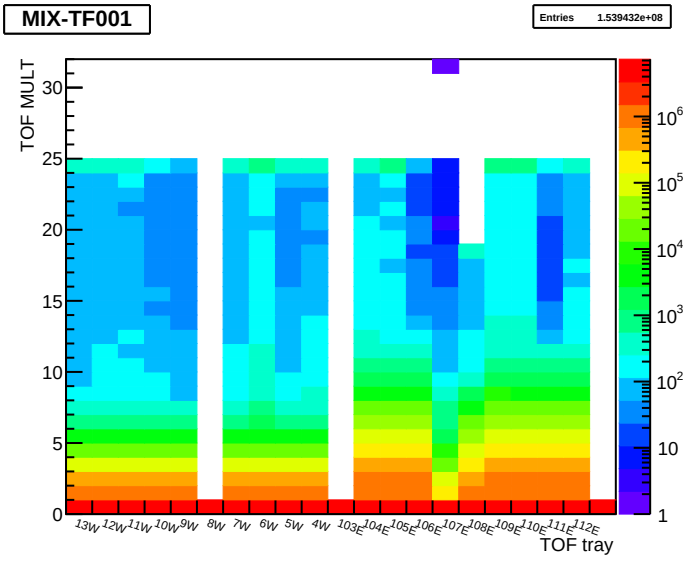

BunchId7Bit (ZDC-TAC)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

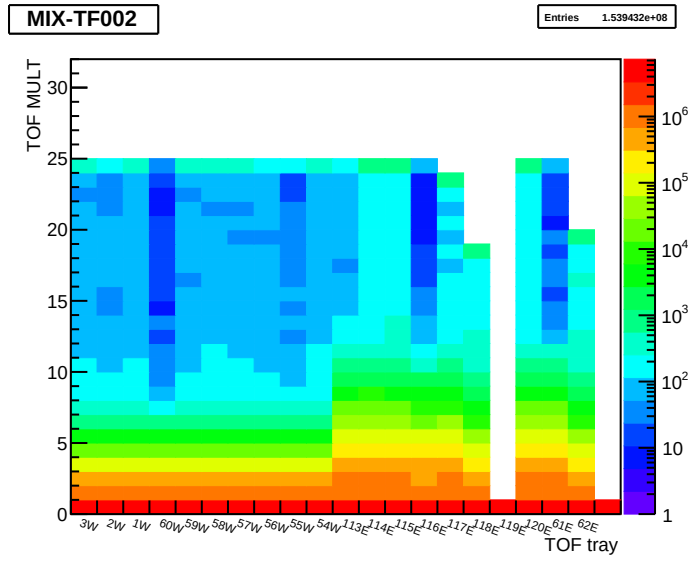

BunchId7Bit (EPD-TAC)
Entries 864553
$10^5$
$10^4$
0
20
40
60
80
100
120

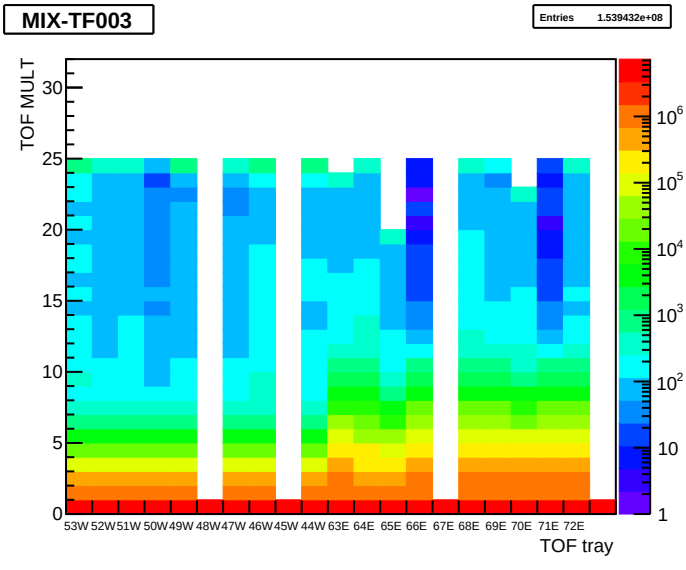

BunchId7Bit (BBC-TAC)
Entries 252204
$10^4$
$10^3$
0
20
40
60
80
100
120

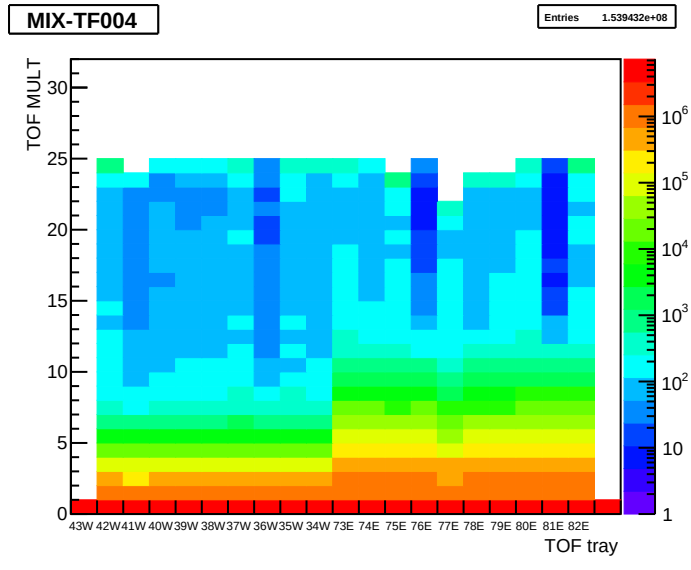

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

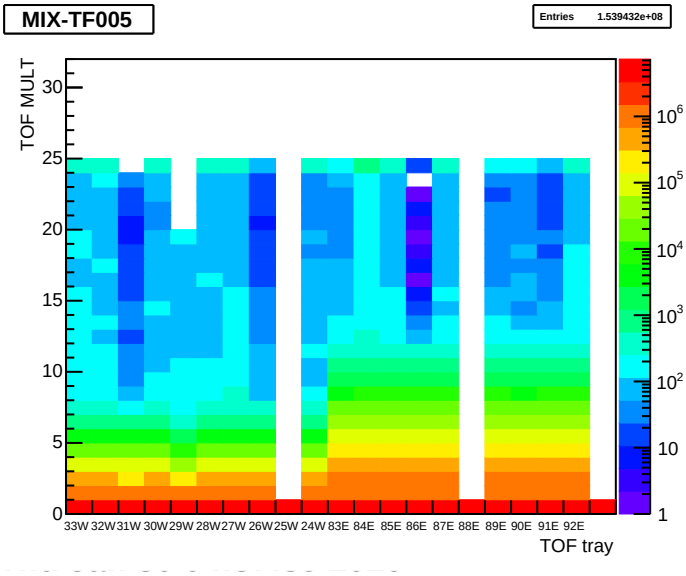

BunchId7Bit (TOFmult window)
Entries1319610
$10^5$
$10^4$
0
20
40
60
80
100
120

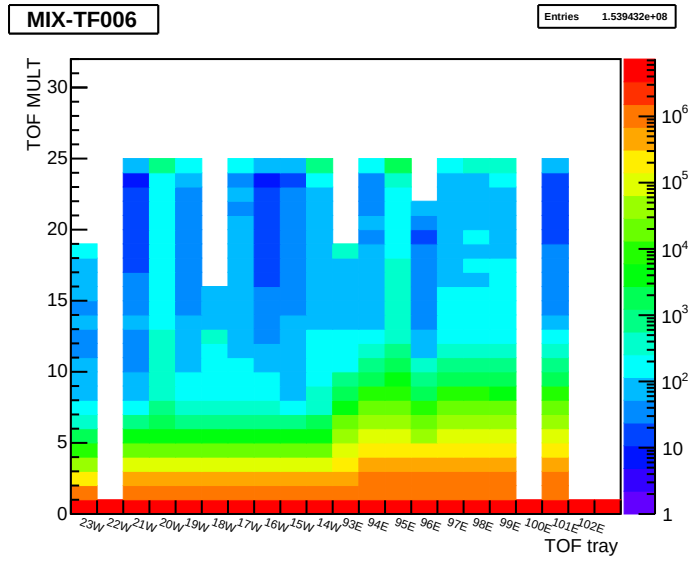

MIX-TF001
Entries 1.539432e+08
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

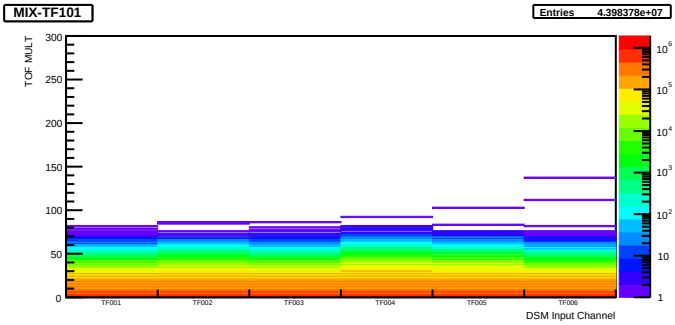

MIX-TF002
Entries 1.539432e+08
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

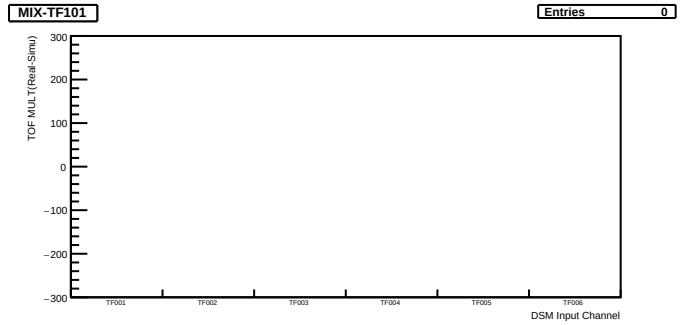

MIX-TF003
Entries 1.539432e+08
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

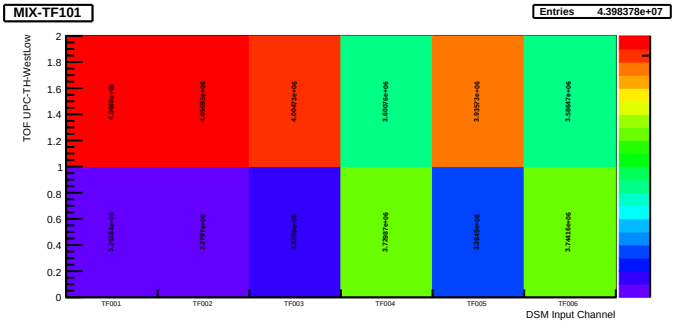

MIX-TF004
Entries 1.539432e+08
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

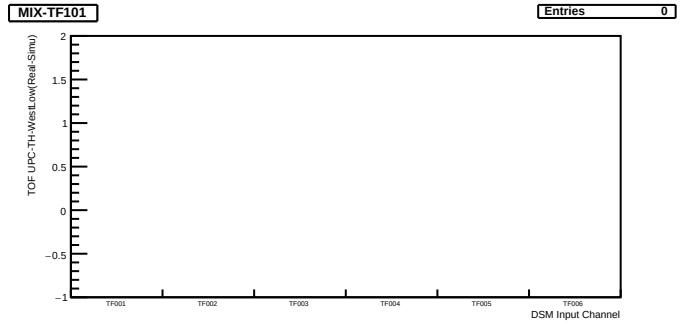

MIX-TF005
Entries 1.539432e+08
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

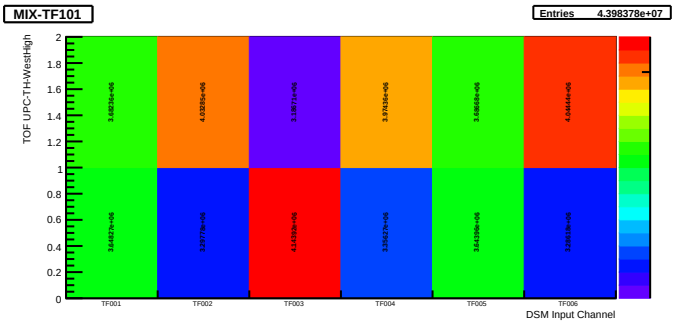

MIX-TF006
Entries 1.539432e+08
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

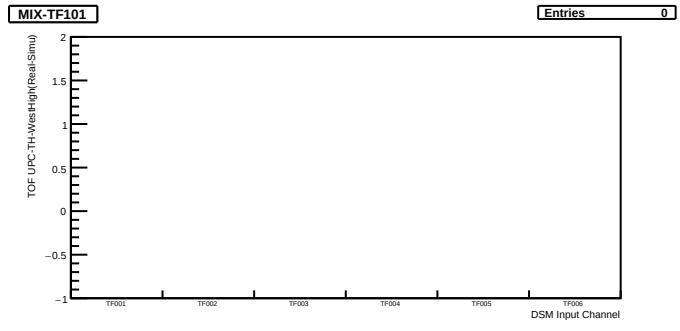

MIX-TF101
Entries 4.398378e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

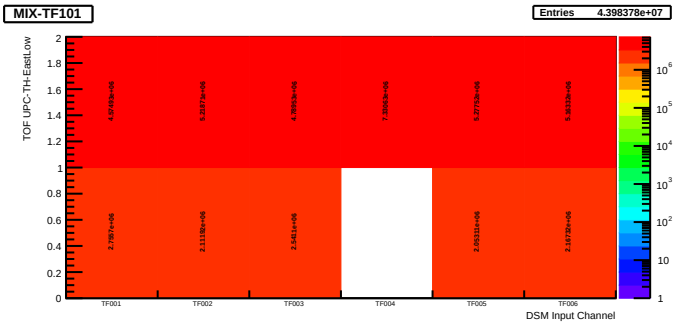

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

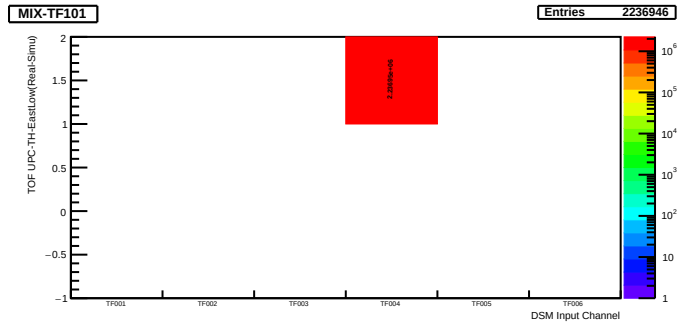

MIX-TF101
Entries 4.398378e+07
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

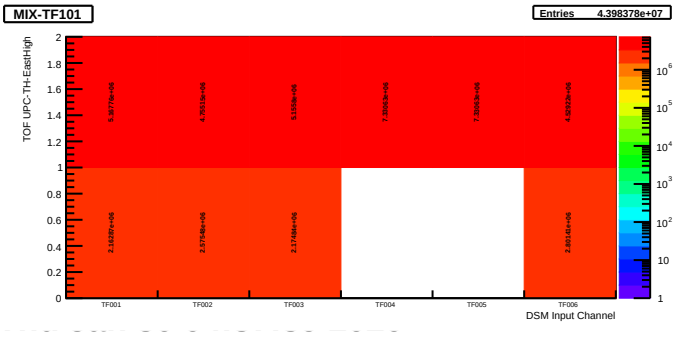

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

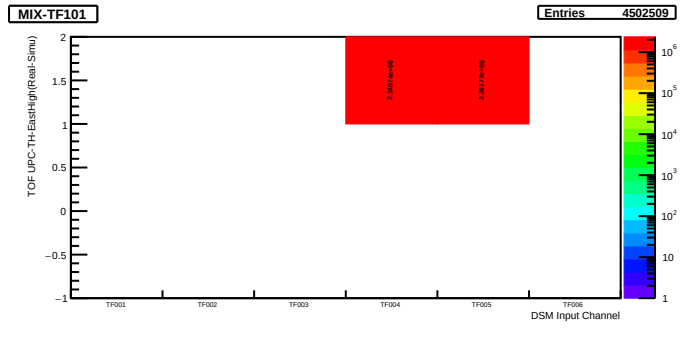

MIX-TF101
Entries 4.398378e+07
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

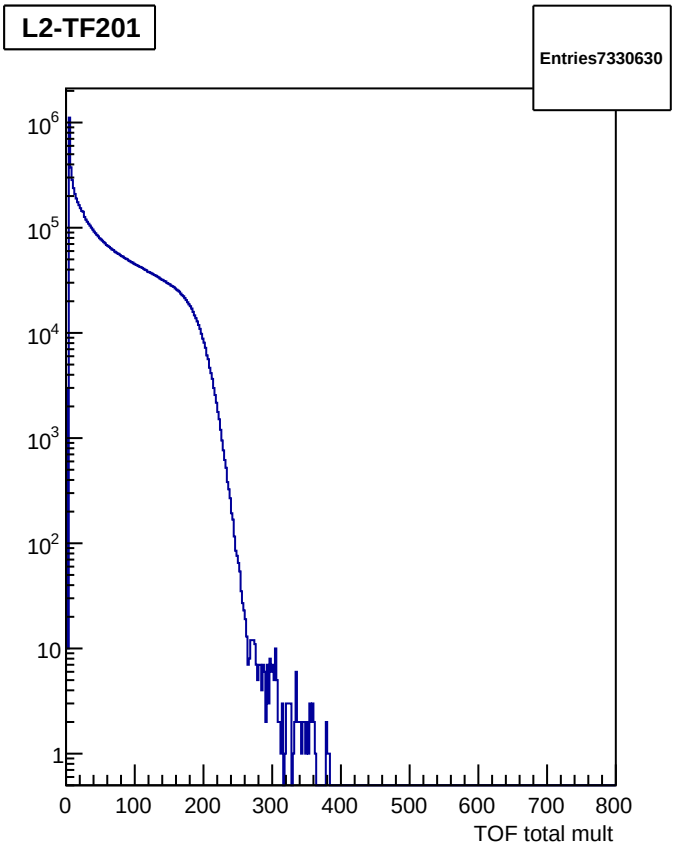

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

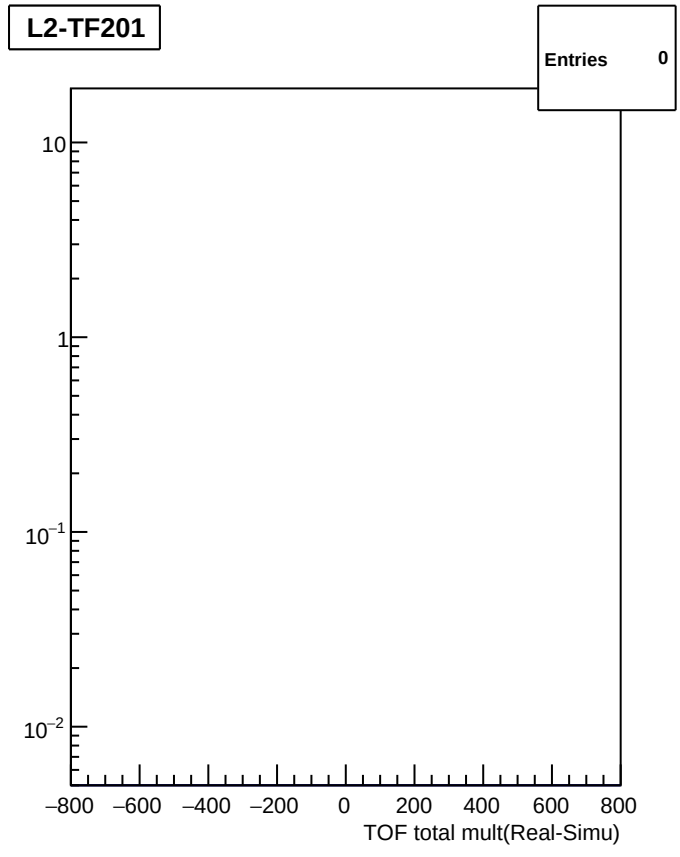

MIX-TF101
Entries 4.398378e+07
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

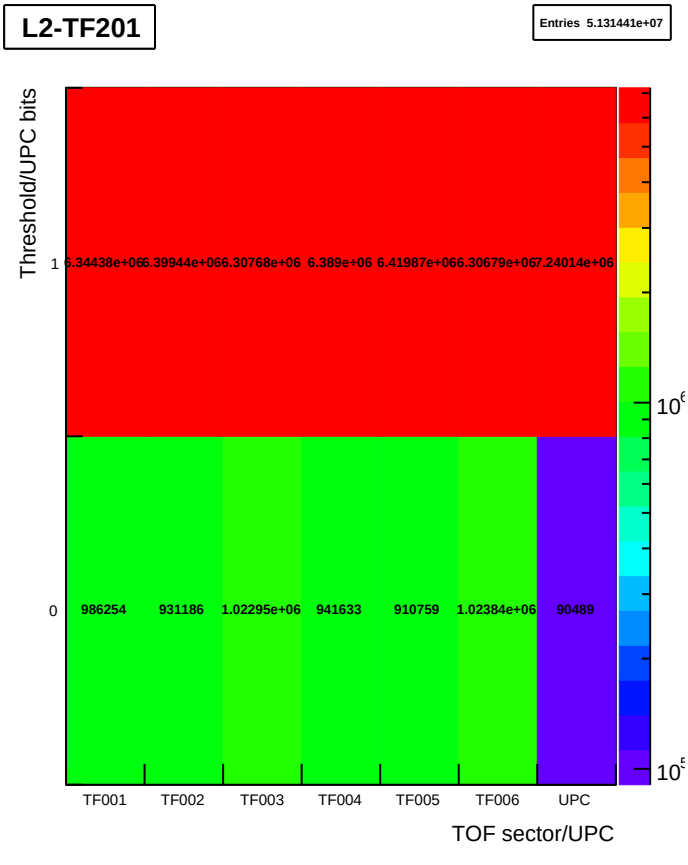

MIX-TF101
Entries 2236946
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

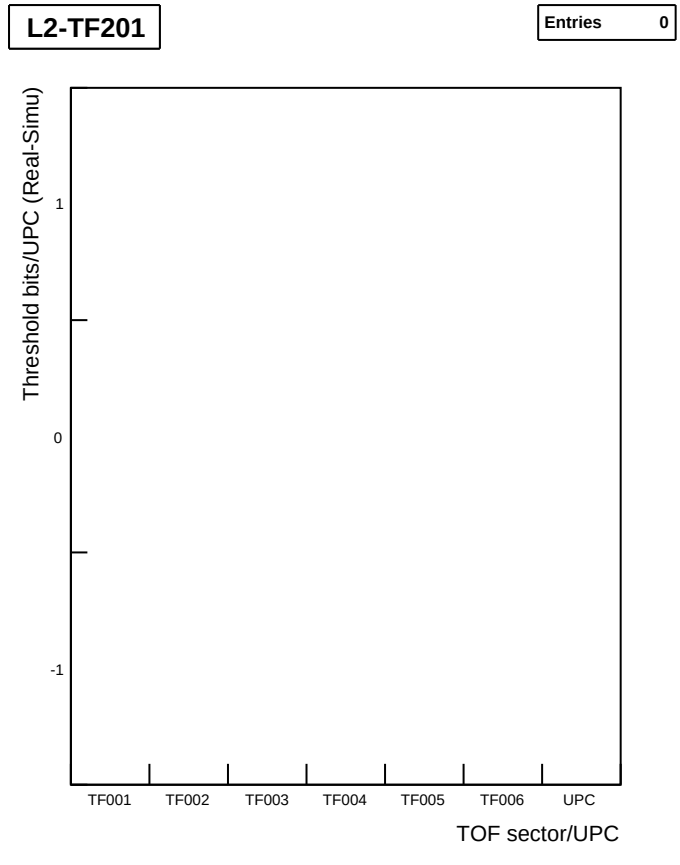

MIX-TF101
Entries 4.398378e+07
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

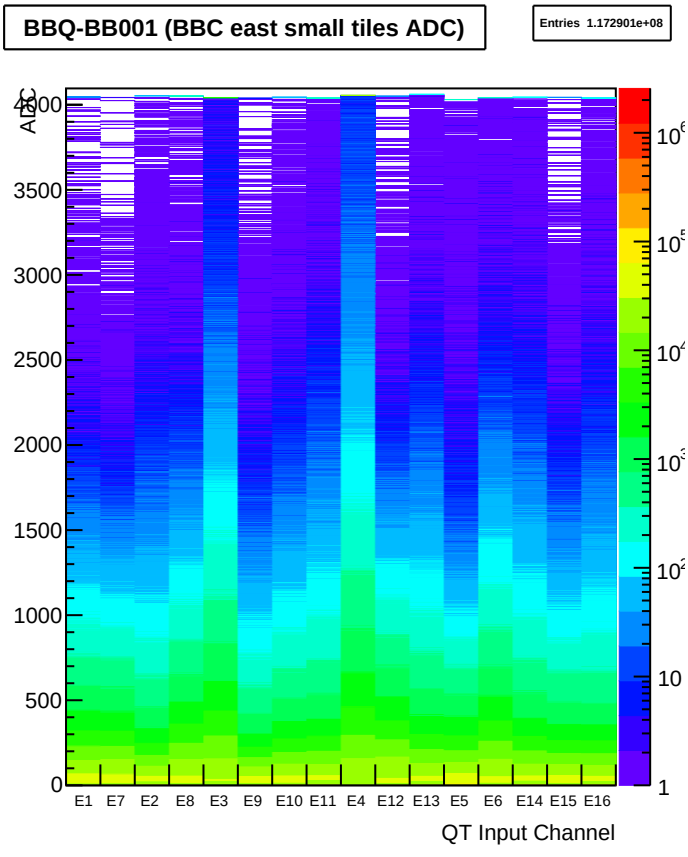

MIX-TF101
Entries 4502509
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

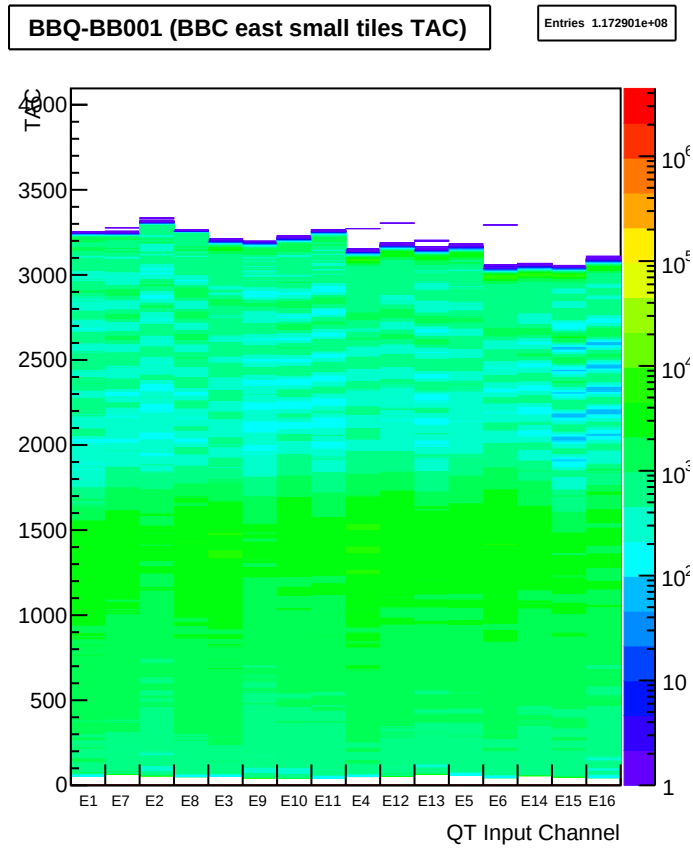

L2-TF201
Entries7330630
TOF total mult

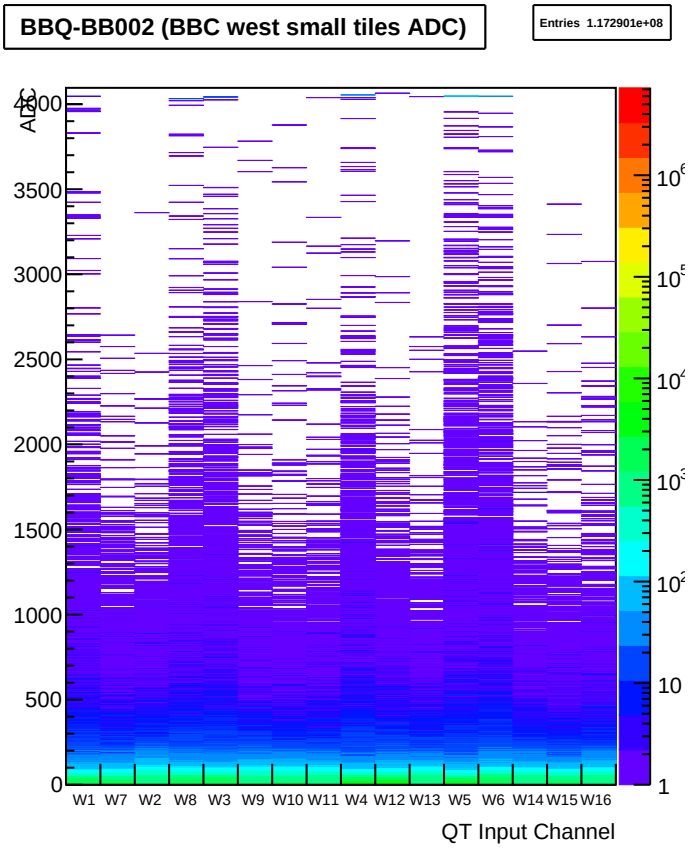

L2-TF201
Entries 0
TOF total mult(Real-Simu)

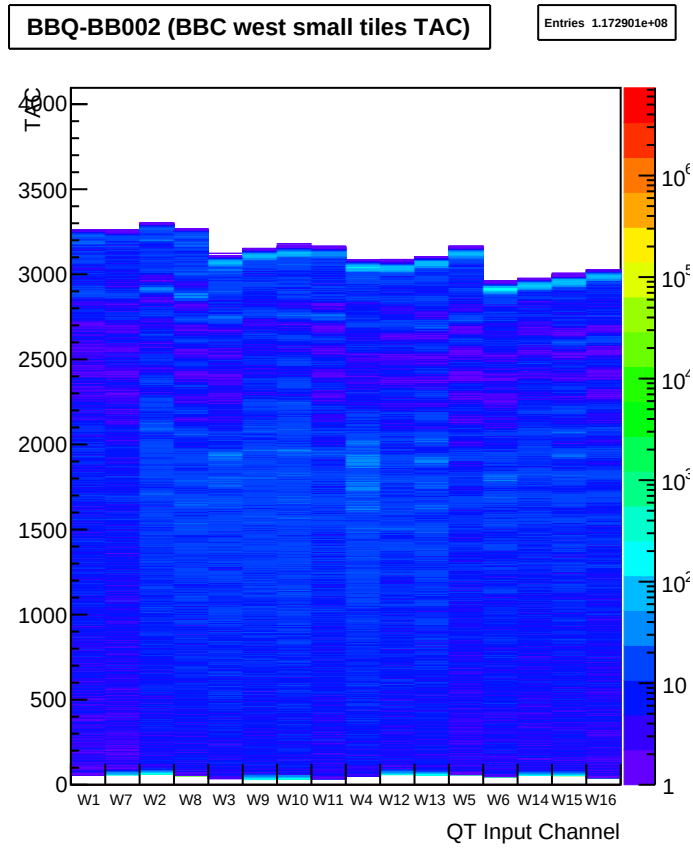

L2-TF201
Entries 5.131441e+07
Threshold/UPC bits
986254
931186
1.02295e+06
941633
910759
1.02384e+06
90489
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

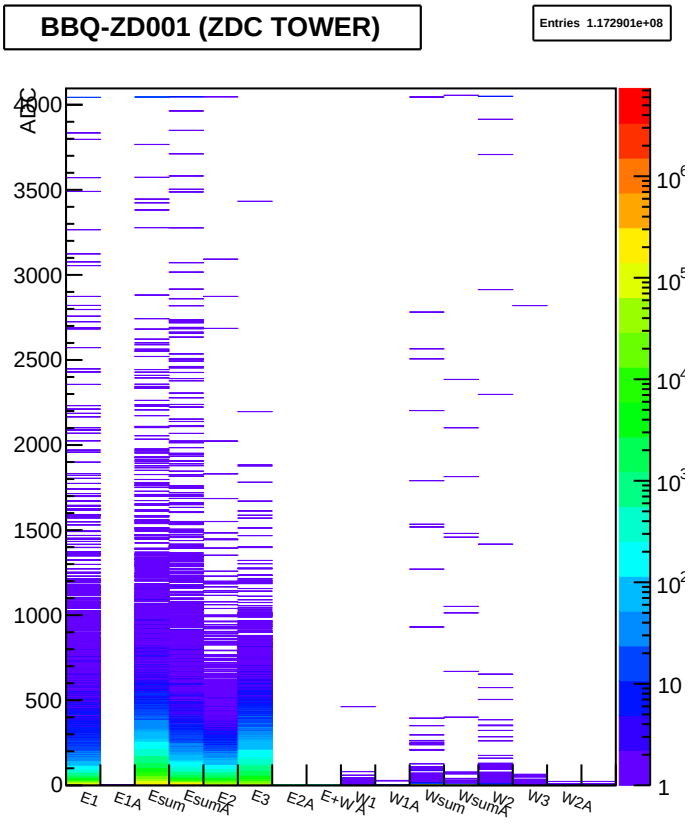

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

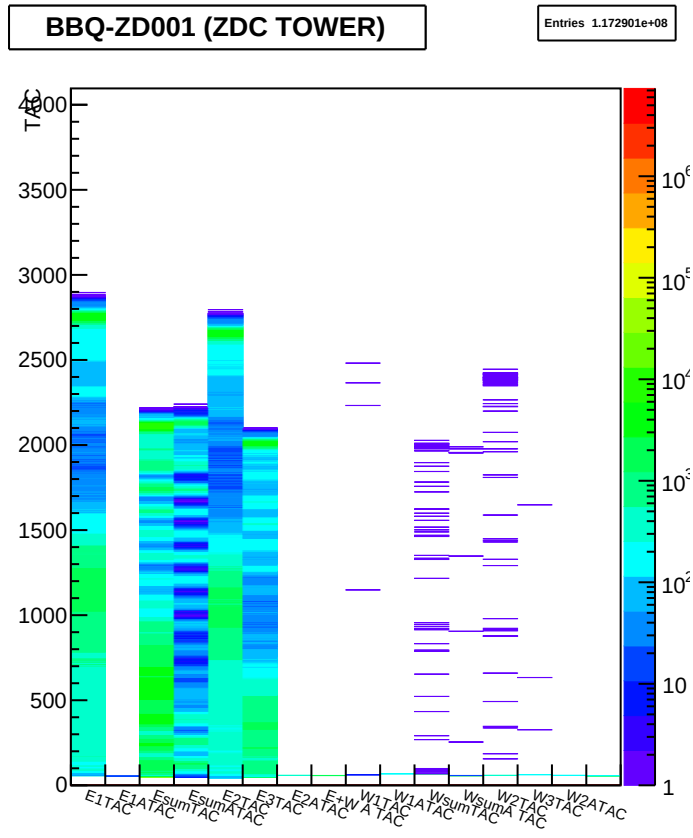

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.172901e+08
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

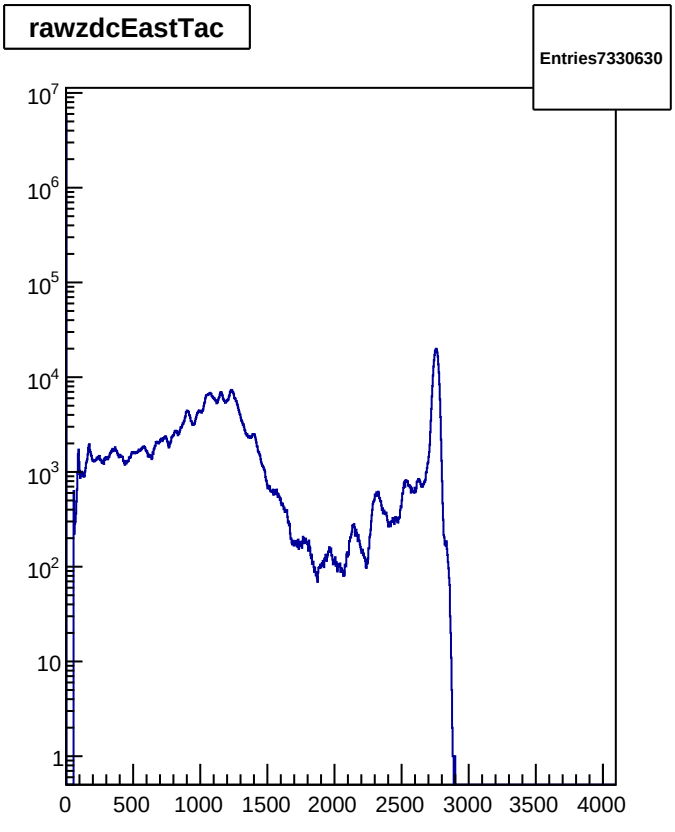

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.172901e+08
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

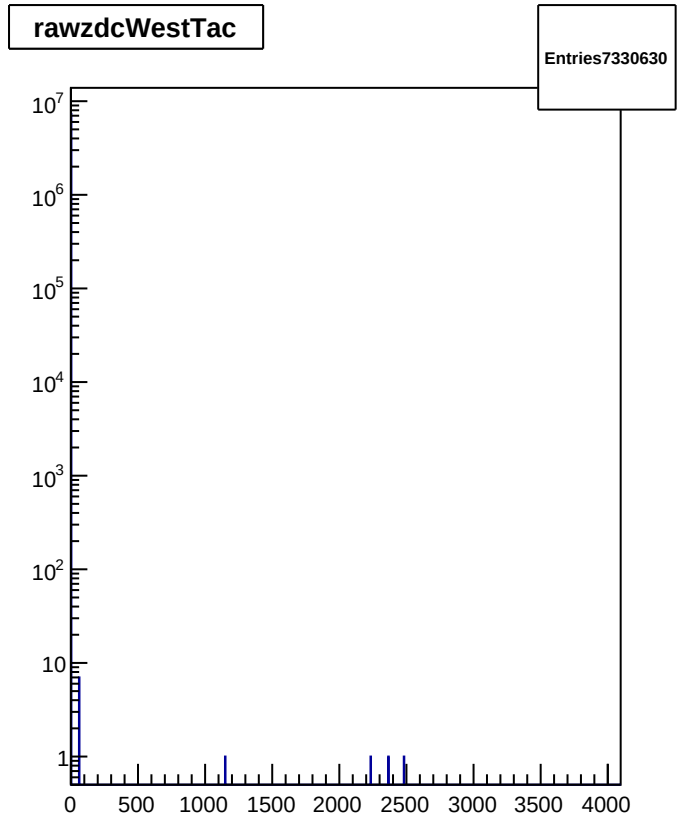

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.172901e+08
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

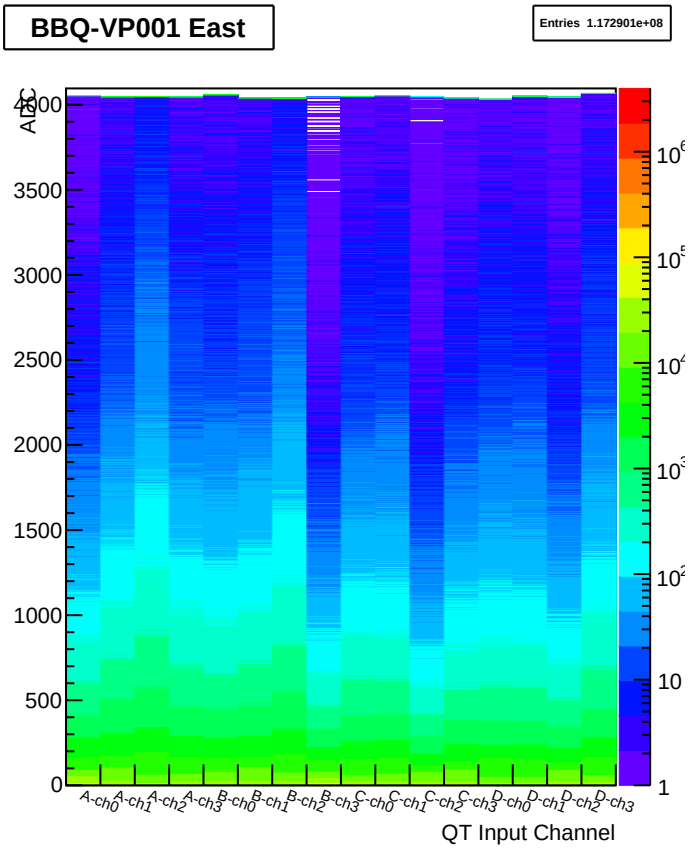

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.172901e+08
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

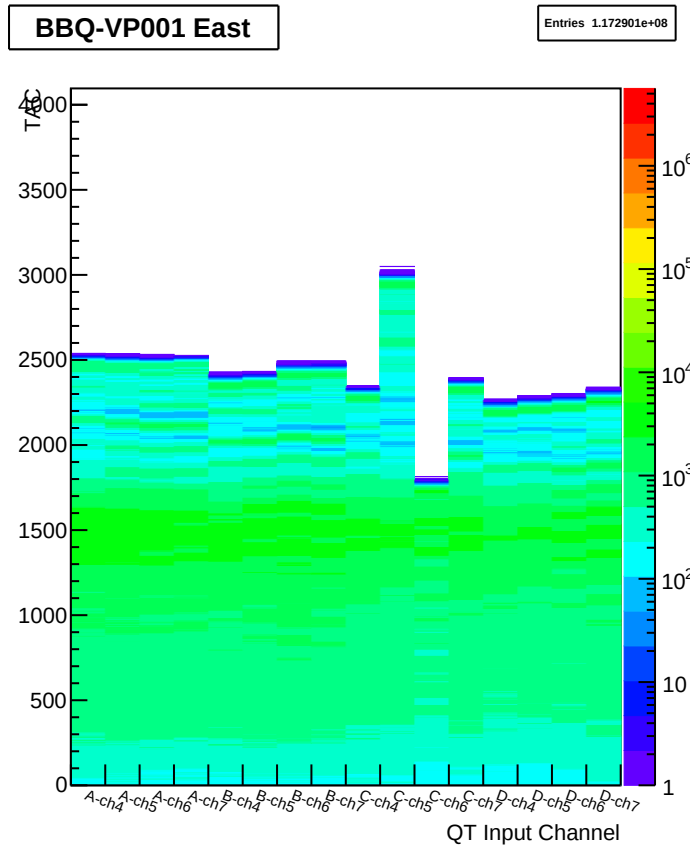

BBQ-ZD001 (ZDC TOWER)
Entries 1.172901e+08
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

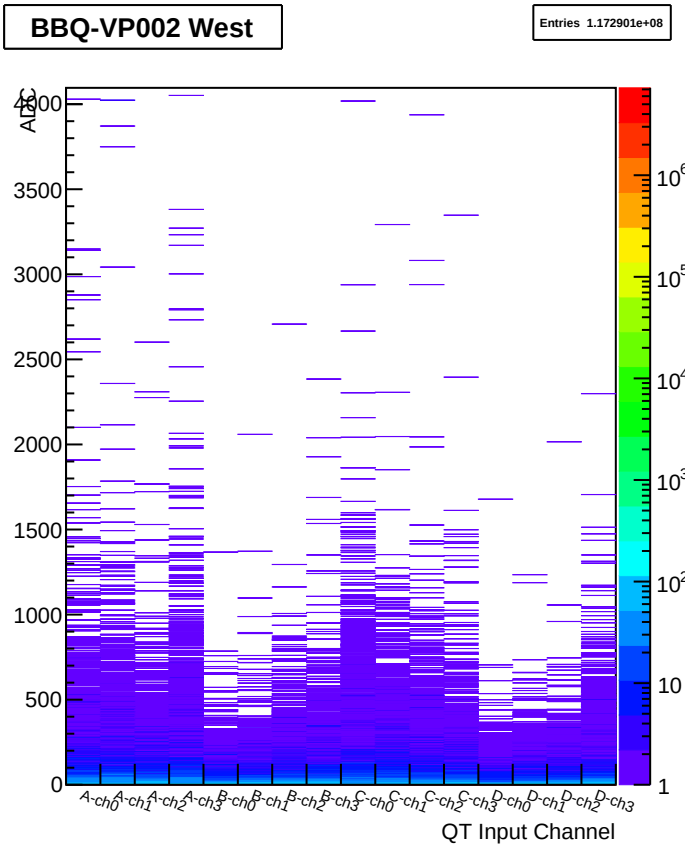

BBQ-ZD001 (ZDC TOWER)
Entries 1.172901e+08
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumATAC
W2TAC
W3TAC
W2ATAC

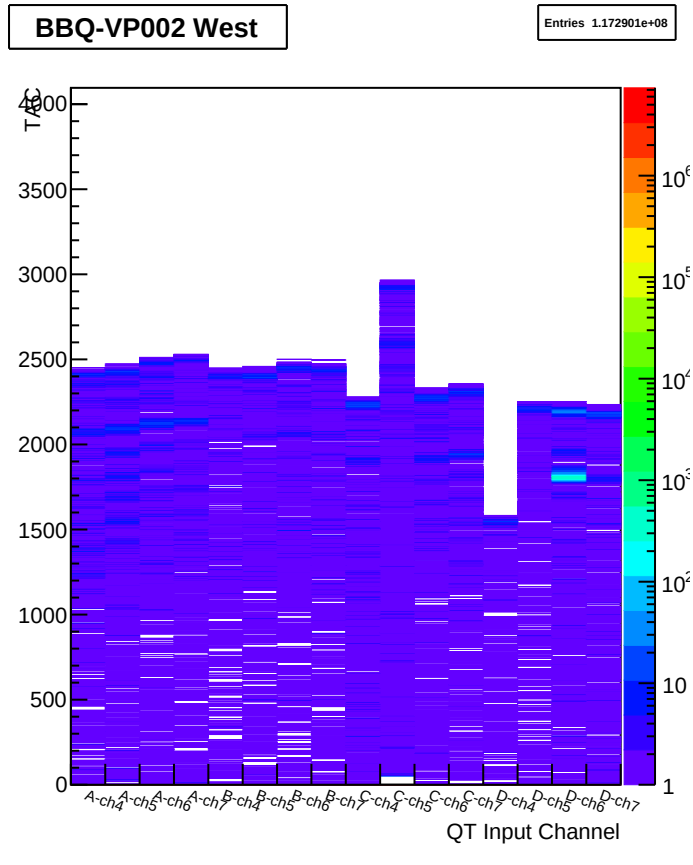

rawzdcEastTac
Entries7330630

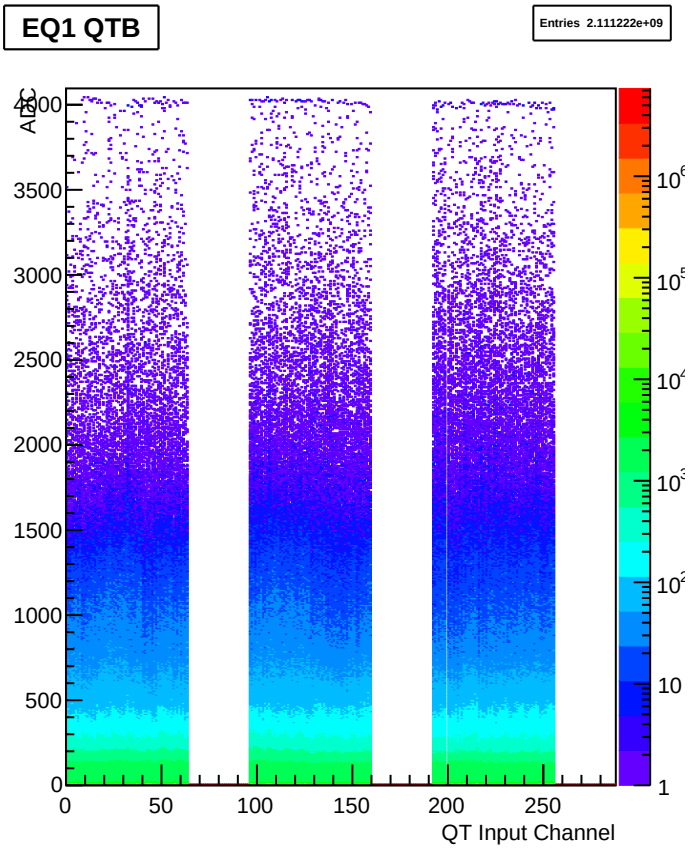

rawzdcWestTac
Entries7330630

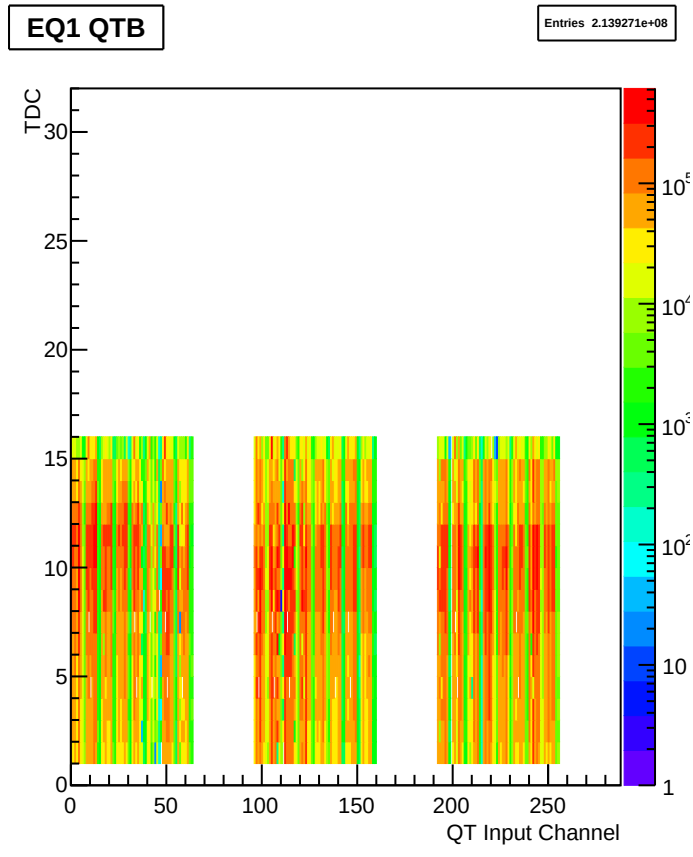

BBQ-VP001 East
Entries 1.172901e+08
ADC
QT Input Channel

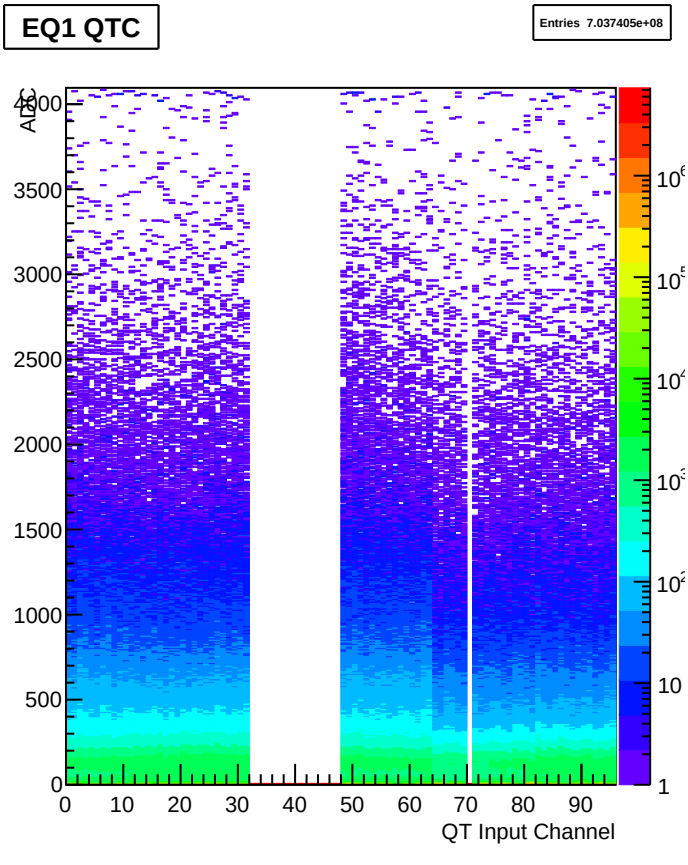

BBQ-VP001 East
Entries 1.172901e+08
TADC
QT Input Channel

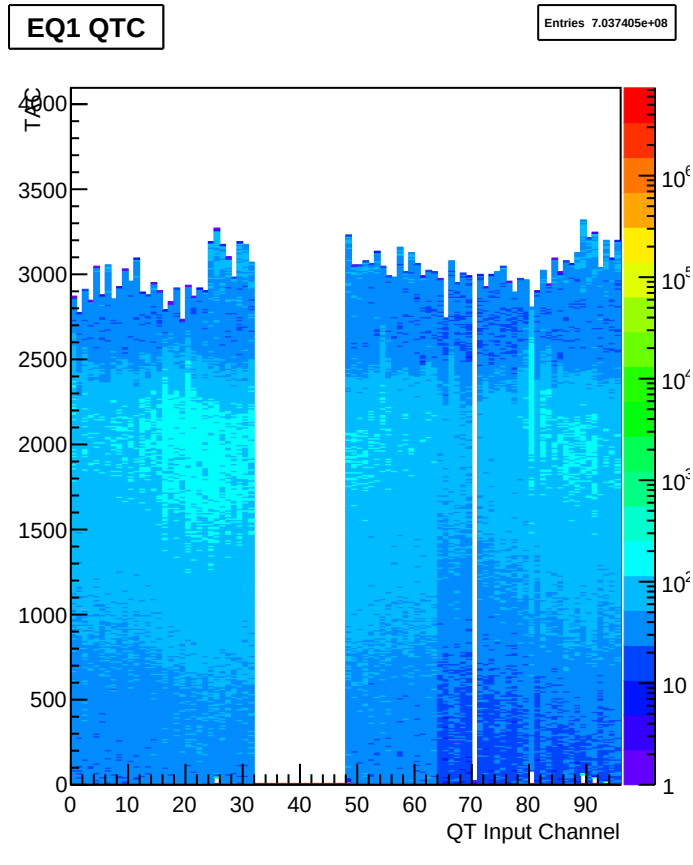

BBQ-VP002 West
Entries 1.172901e+08
ADC
QT Input Channel

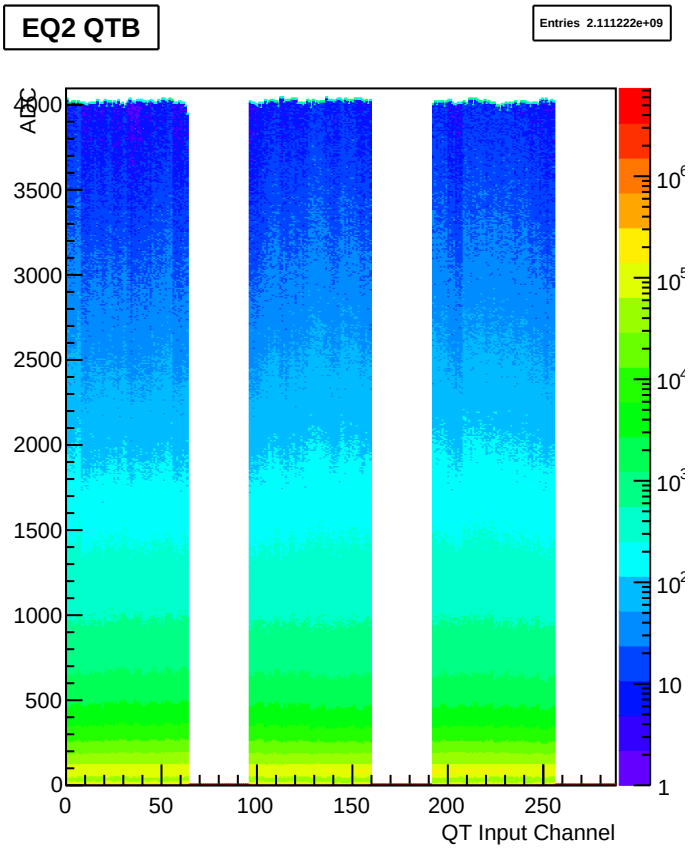

BBQ-VP002 West
Entries 1.172901e+08
TADC
QT Input Channel

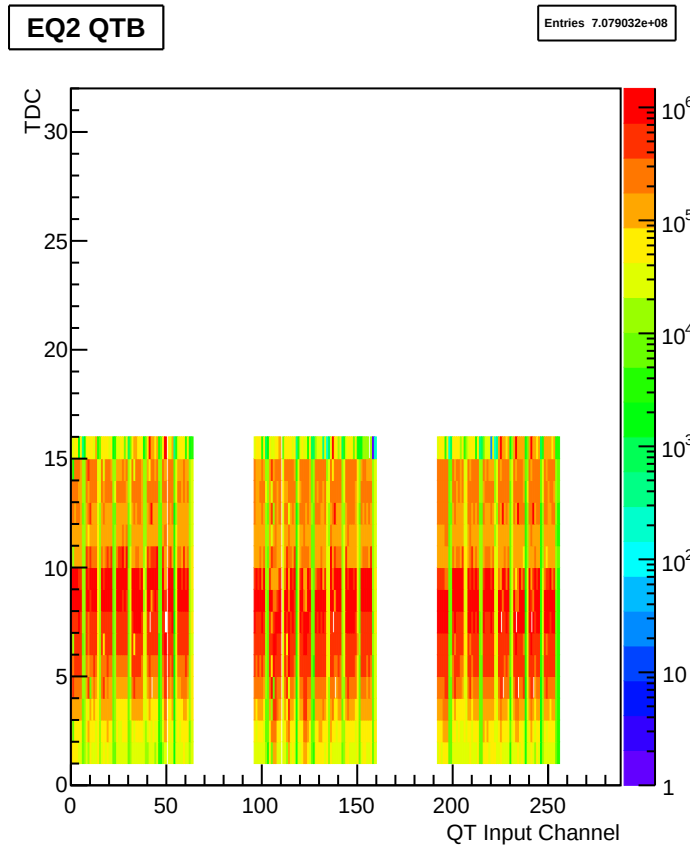

EQ1 QTB
Entries 2.111222e+09
ADC
QT Input Channel

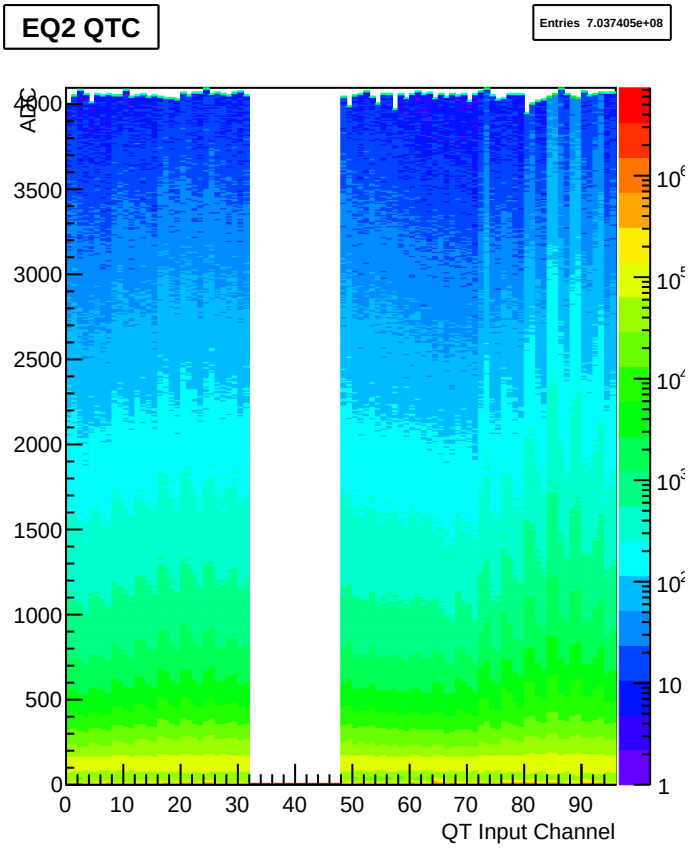

EQ1 QTB
Entries 2.139271e+08
TDC
QT Input Channel

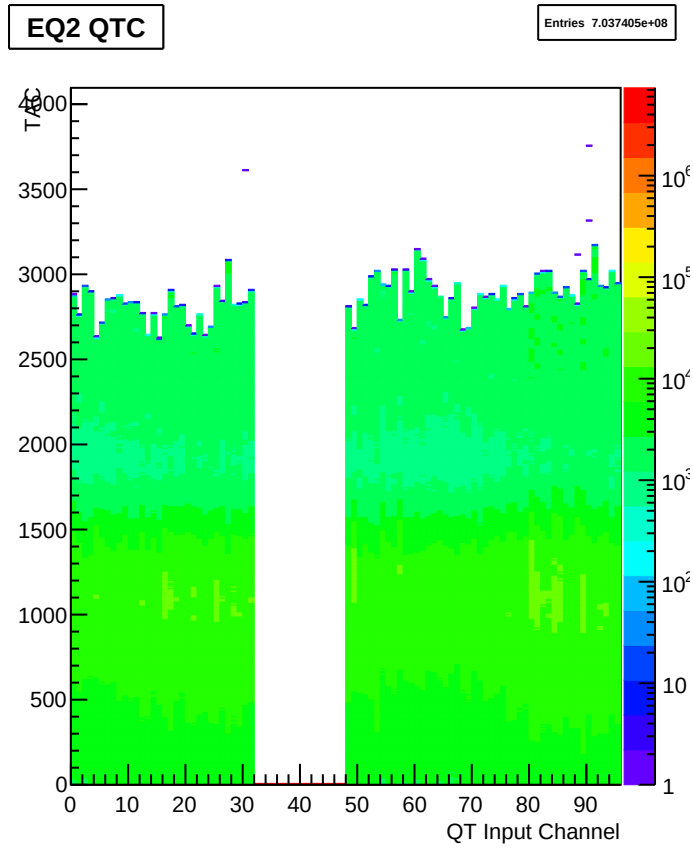

EQ1 QTC
Entries 7.037405e+08
ADC
QT Input Channel

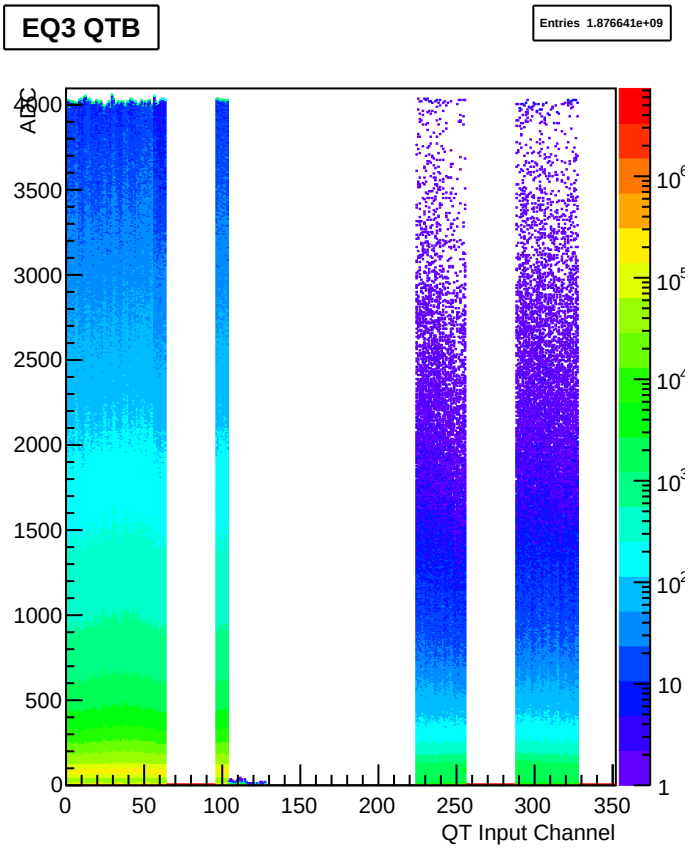

EQ1 QTC
Entries 7.037405e+08
TADC
QT Input Channel

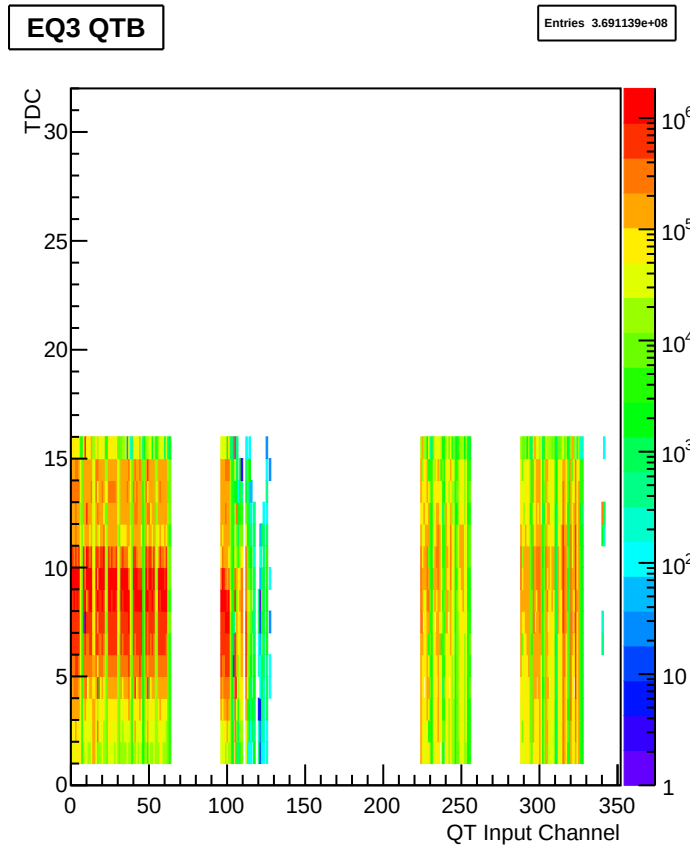

EQ2 QTB
Entries 2.111222e+09
ADC
QT Input Channel

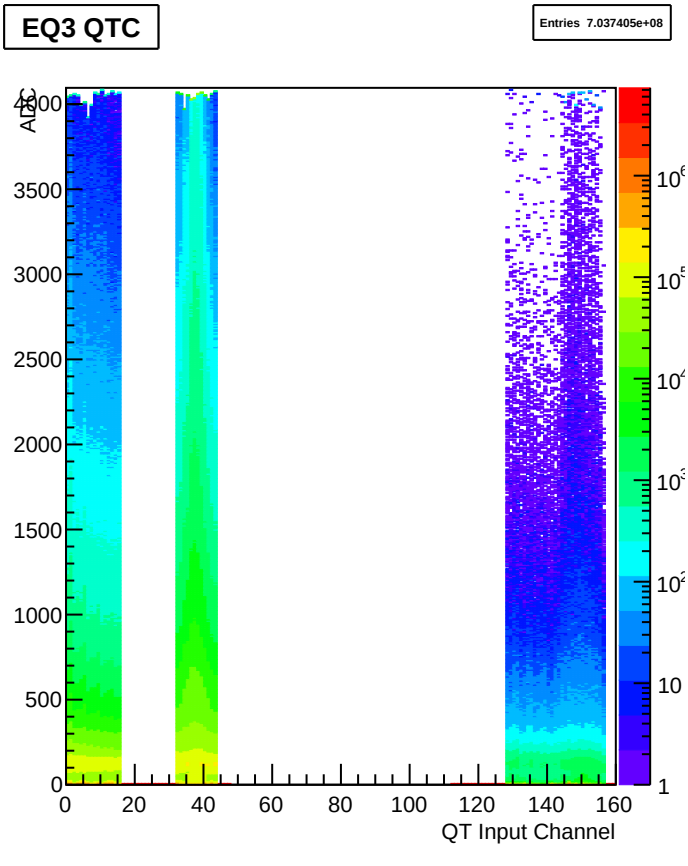

EQ2 QTB
Entries 7.079032e+08
TDC
QT Input Channel

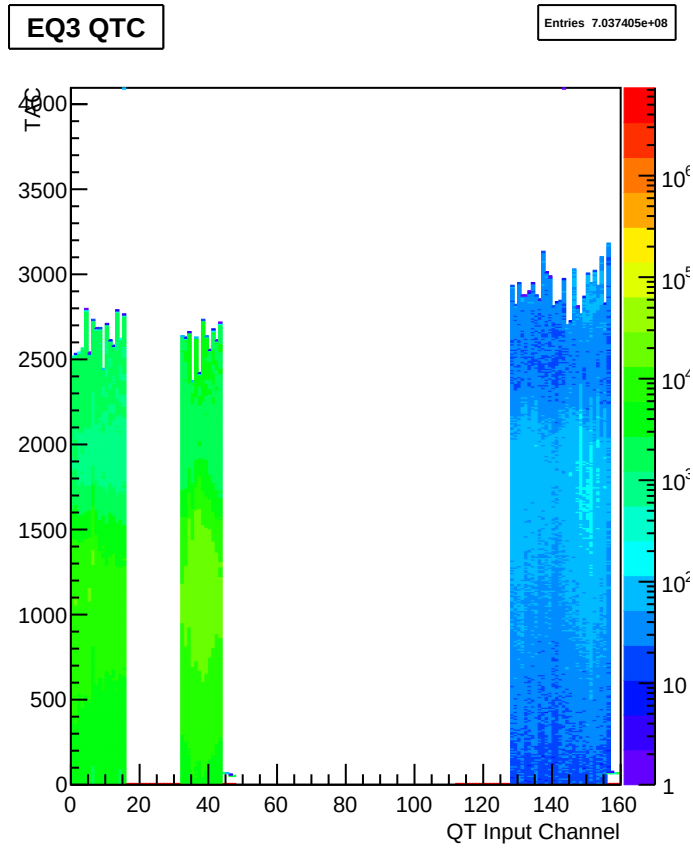

EQ2 QTC
Entries 7.037405e+08
ADC
QT Input Channel

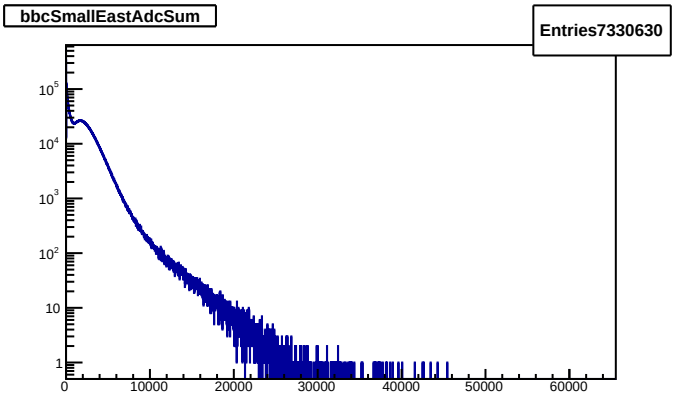

EQ2 QTC
Entries 7.037405e+08
TADC
QT Input Channel

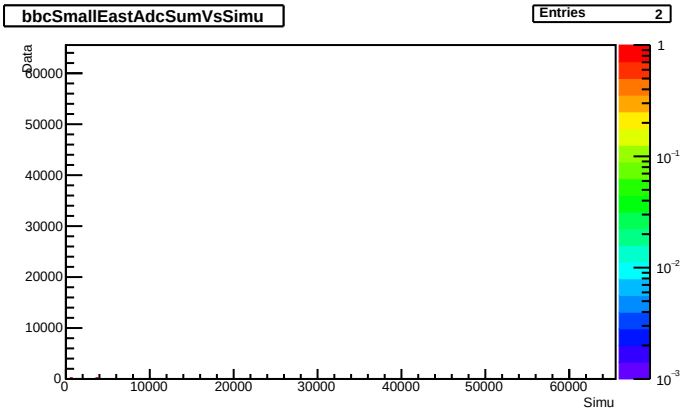

EQ3 QTB
Entries 1.876641e+09
ADC
QT Input Channel

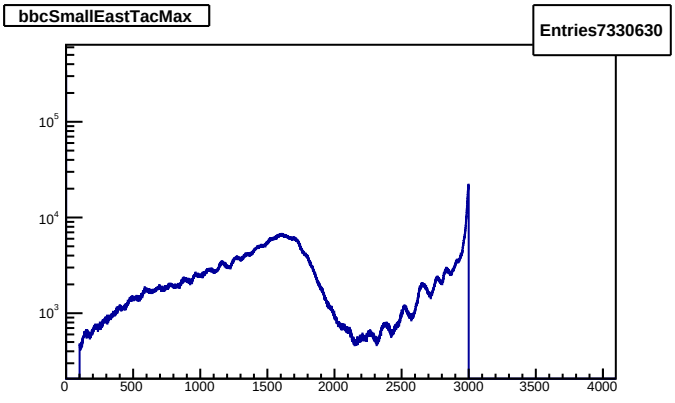

EQ3 QTB
Entries 3.691139e+08
TDC
QT Input Channel

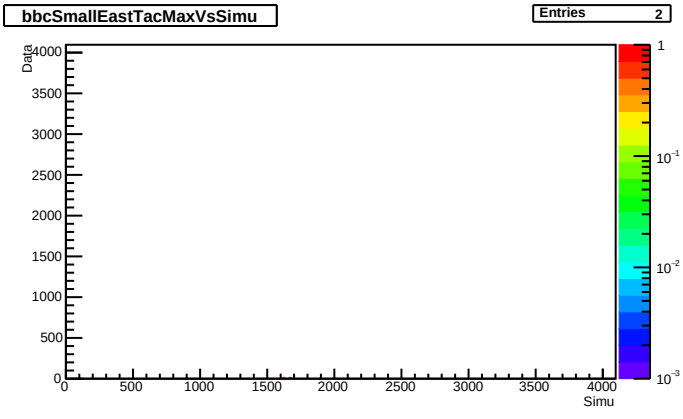

EQ3 QTC
Entries 7.037405e+08
ADC
QT Input Channel

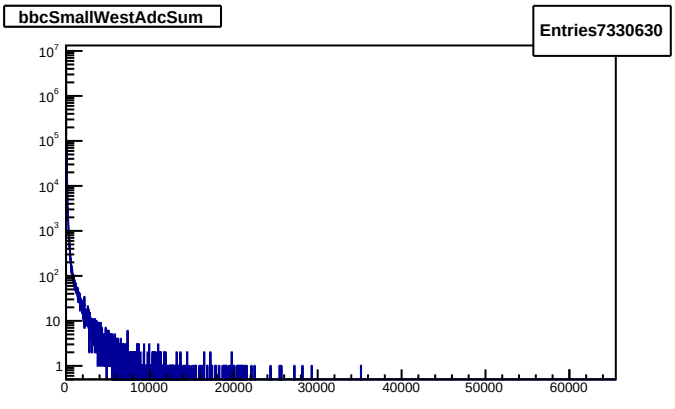

EQ3 QTC
Entries 7.037405e+08
TADC
QT Input Channel

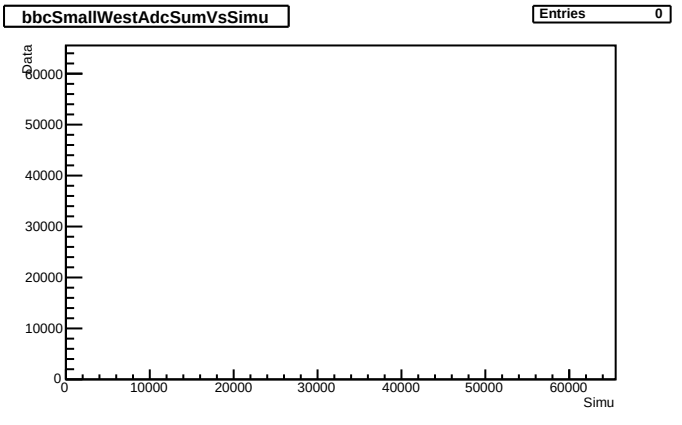

bbcSmallEastAdcSum
Entries7330630

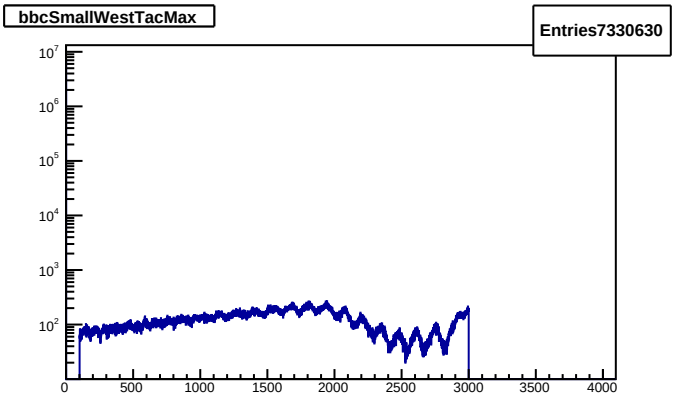

bbcSmallEastAdcSumVsSimu
Entries 2
Data
Simu

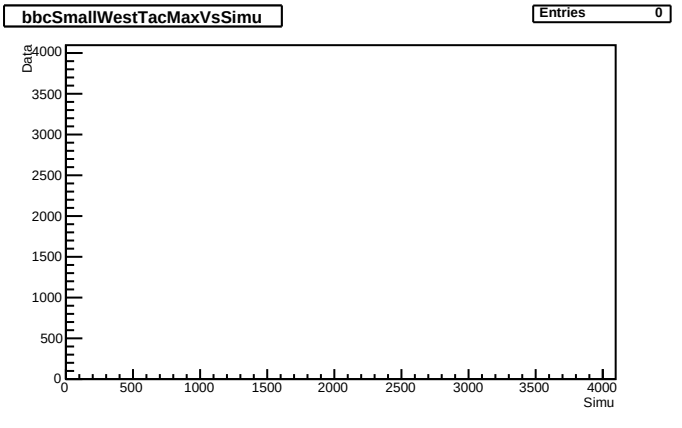

bbcSmallEastTacMax
Entries7330630

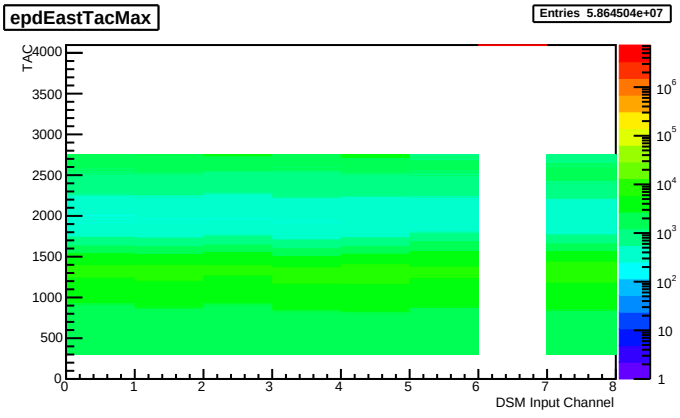

bbcSmallEastTacMaxVsSimu
Entries 2
Data
Simu

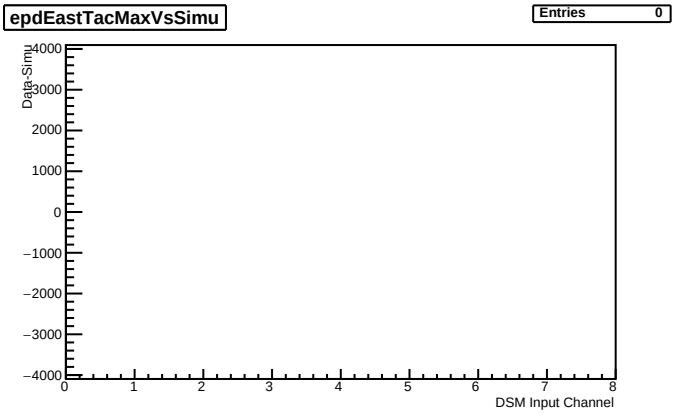

bbcSmallWestAdcSum
Entries7330630

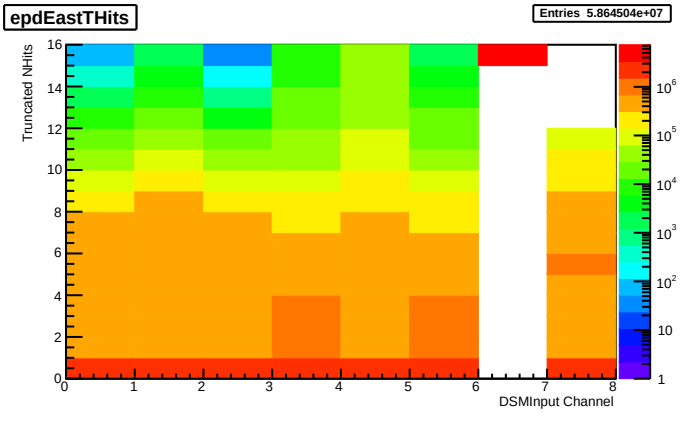

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

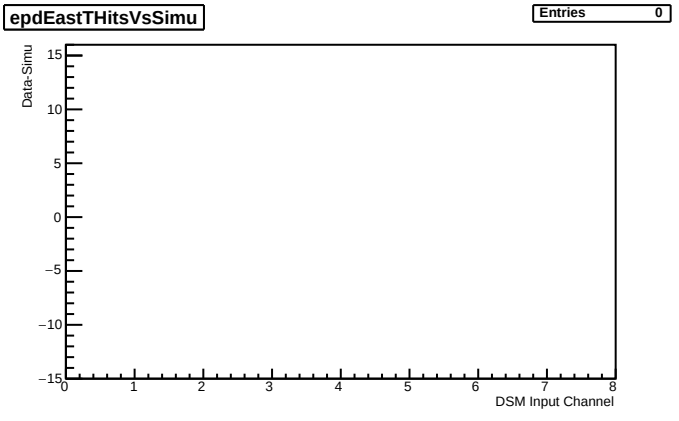

bbcSmallWestTacMax
Entries7330630

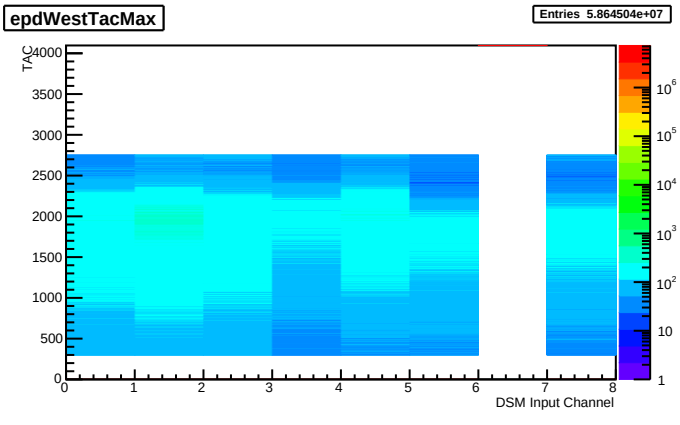

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

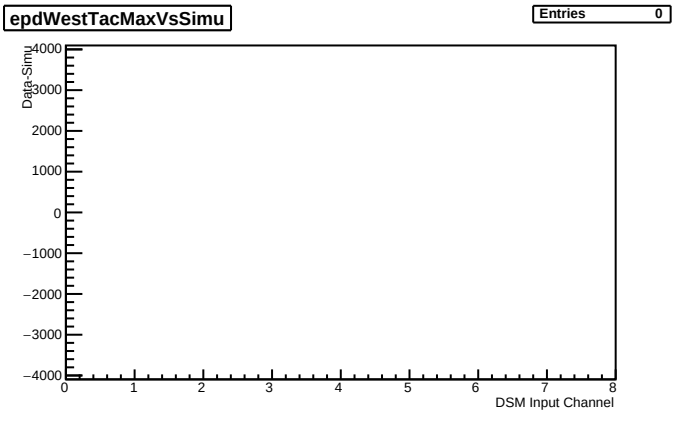

epdEastTacMax
Entries 5.864504e+07
TAC
DSM Input Channel

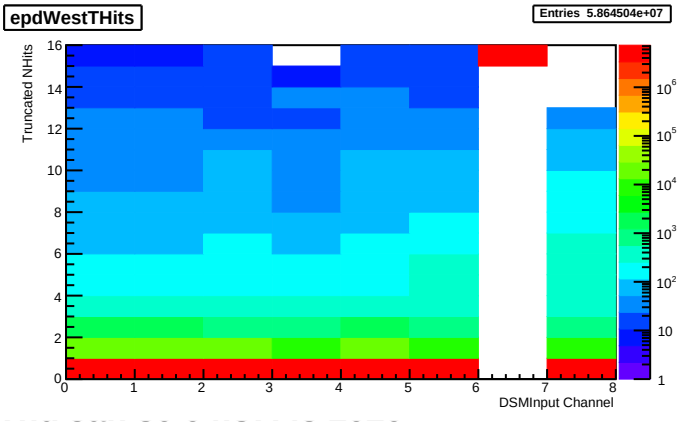

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

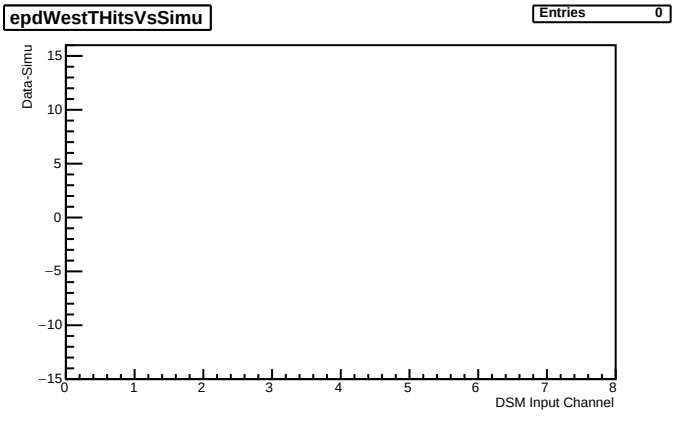

epdEastTHits
Entries 5.864504e+07
Truncated NHits
DSMInput Channel

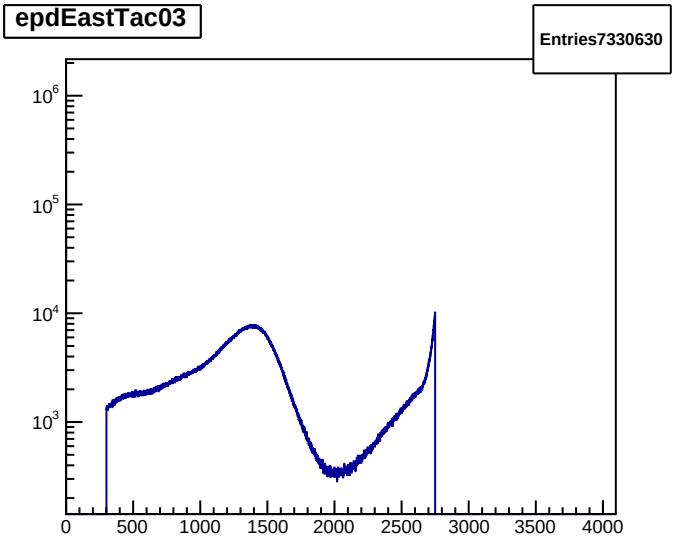

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

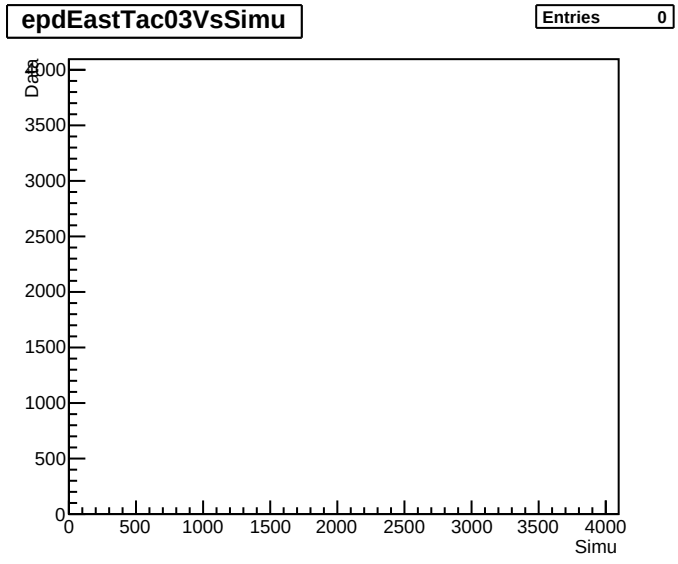

epdWestTacMax
Entries 5.864504e+07
TAC
DSM Input Channel

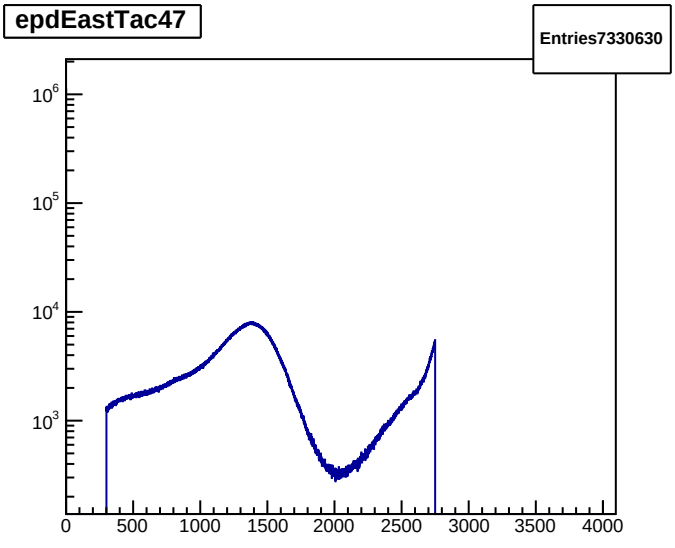

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

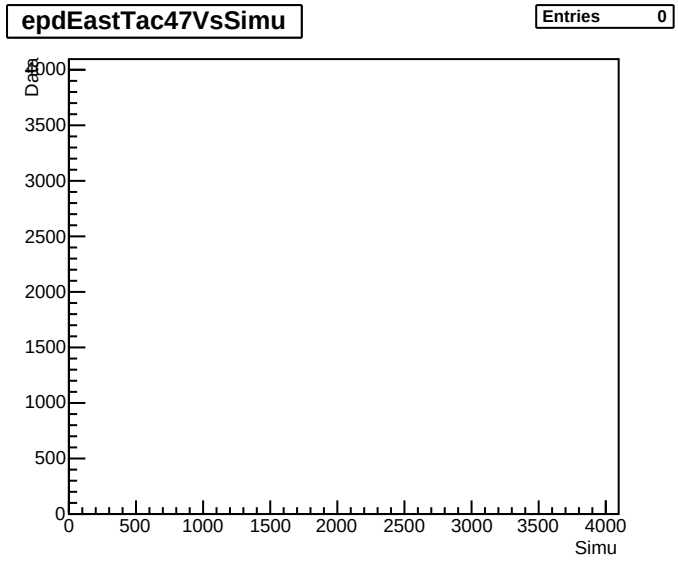

epdWestTHits
Entries 5.864504e+07
Truncated NHits
DSMInput Channel

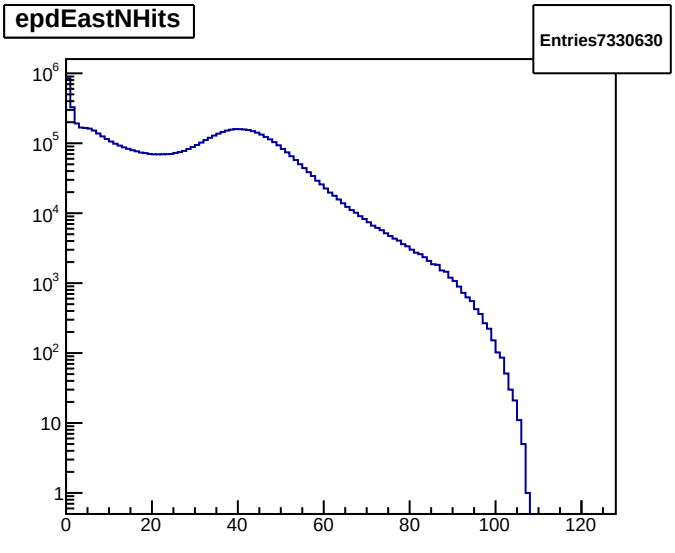

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

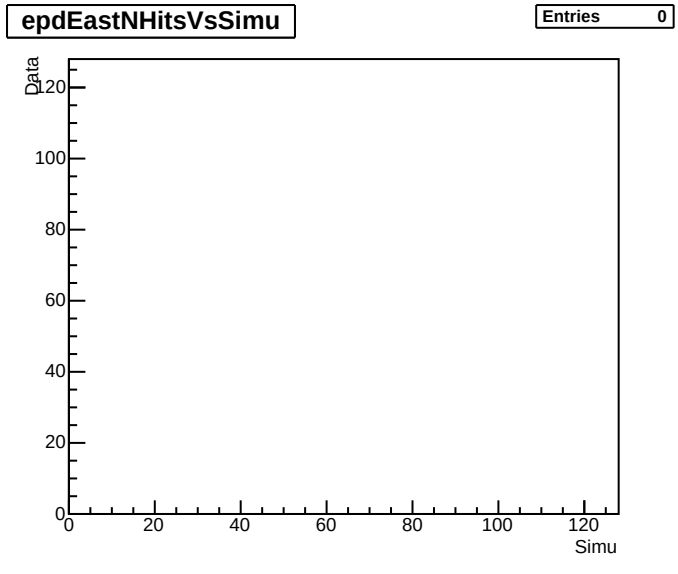

epdEastTac03
Entries7330630

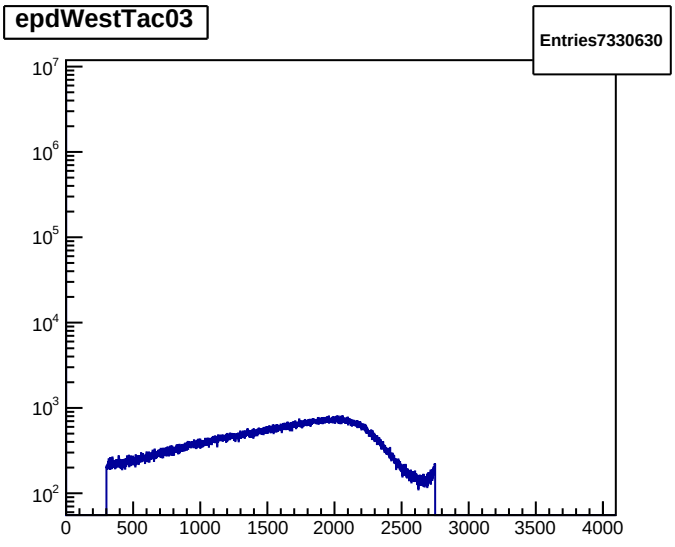

epdEastTac03VsSimu
Entries 0
Data
Simu

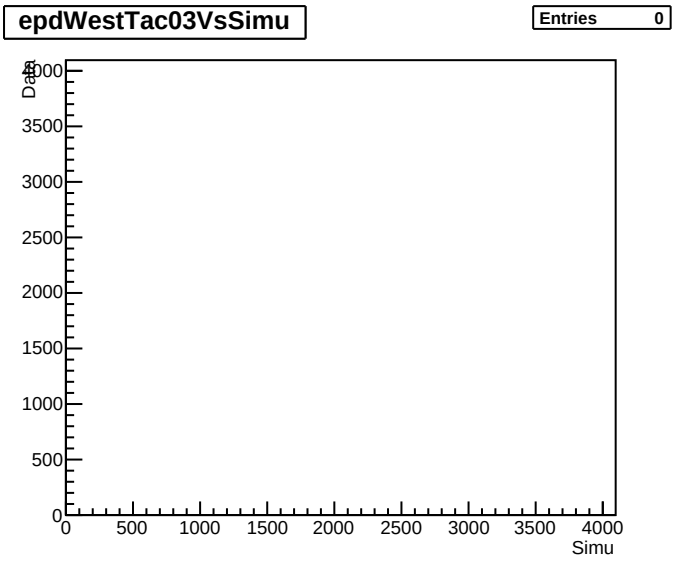

epdEastTac47
Entries7330630

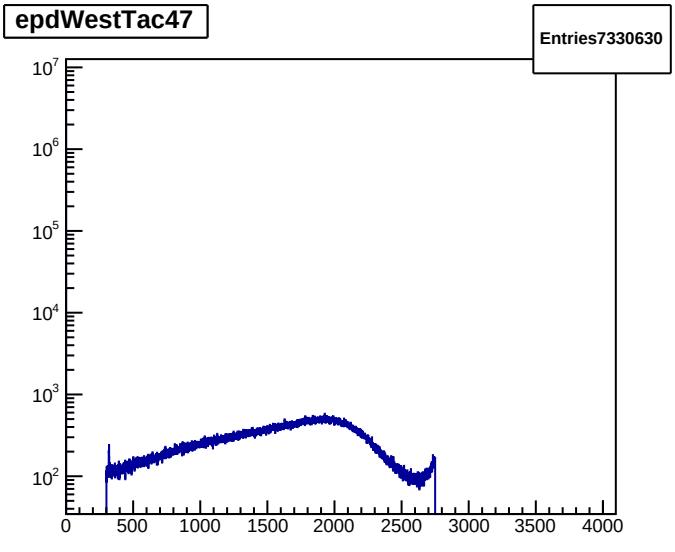

epdEastTac47VsSimu
Entries 0
Data
Simu

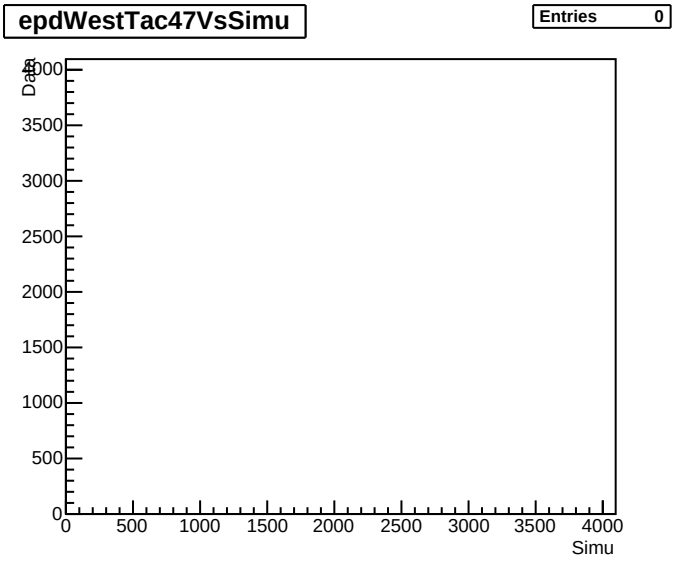

epdEastNHits
Entries7330630

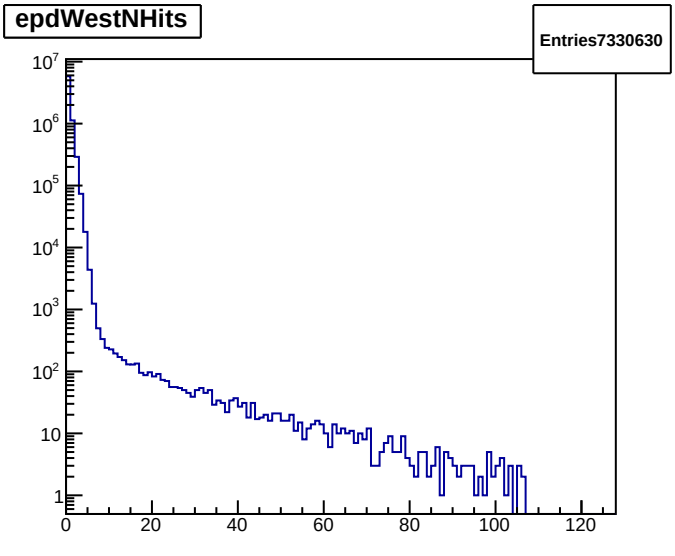

epdEastNHitsVsSimu
Entries 0
Data
Simu

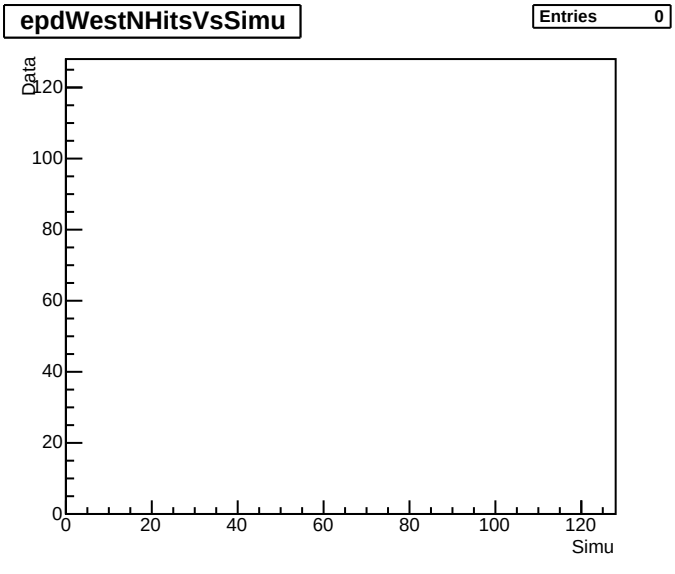

epdWestTac03
Entries7330630

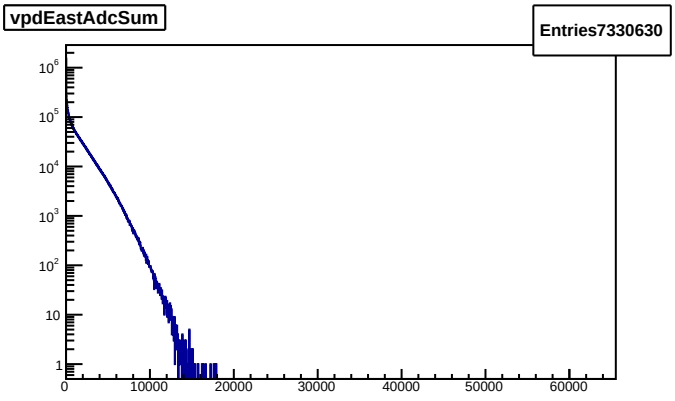

epdWestTac03VsSimu
Entries 0
Data
Simu

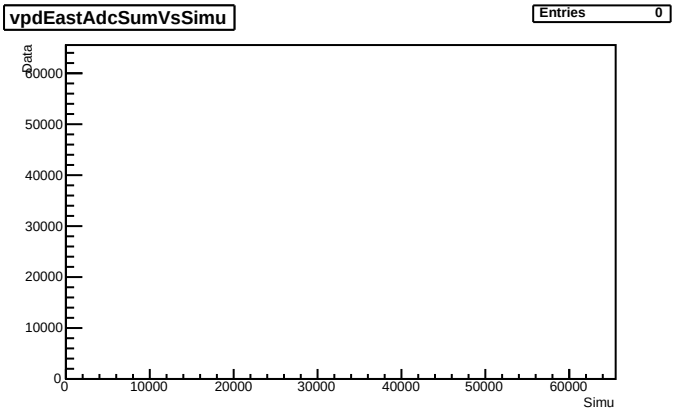

epdWestTac47
Entries7330630

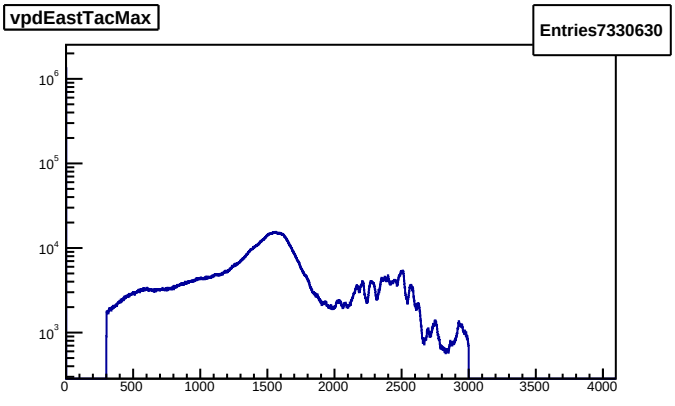

epdWestTac47VsSimu
Entries 0
Data
Simu

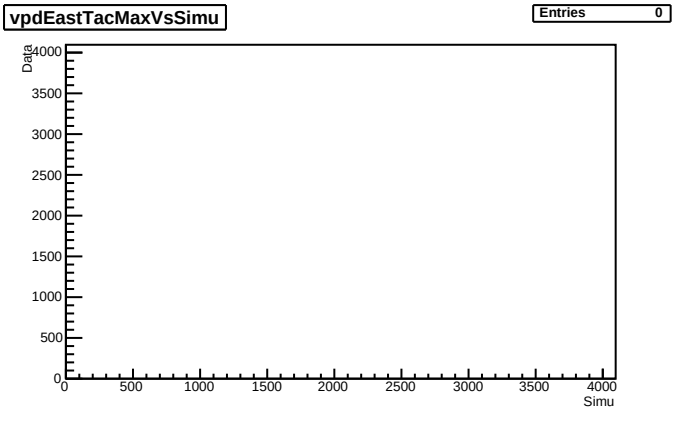

epdWestNHits
Entries7330630

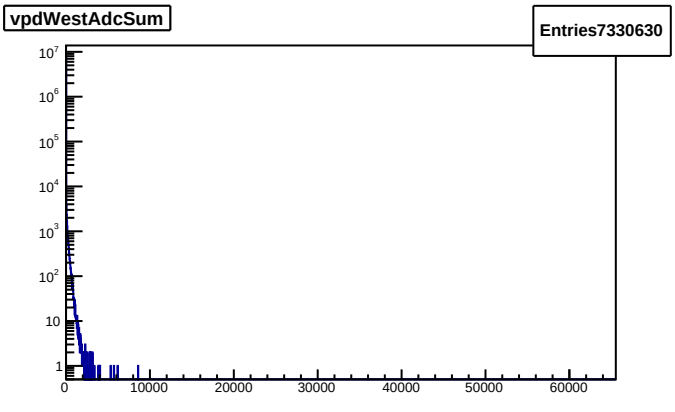

epdWestNHitsVsSimu
Entries 0
Data
Simu

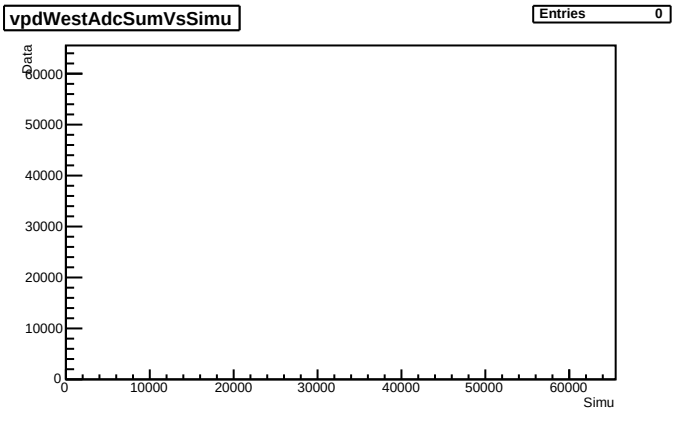

vpdEastAdcSum
Entries7330630

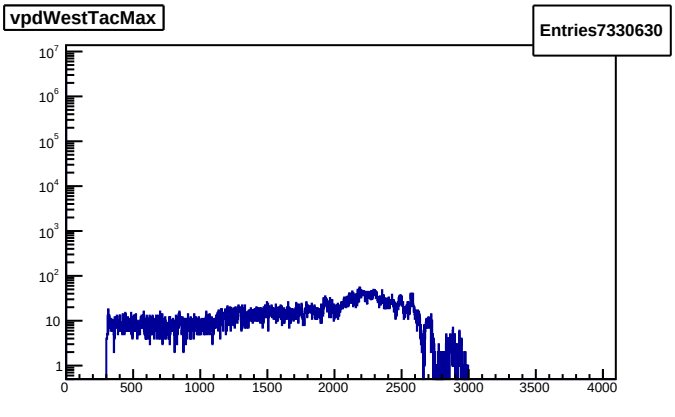

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

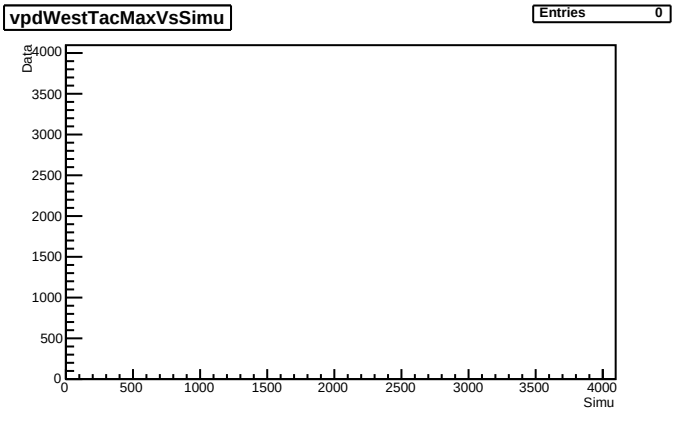

vpdEastTacMax
Entries7330630

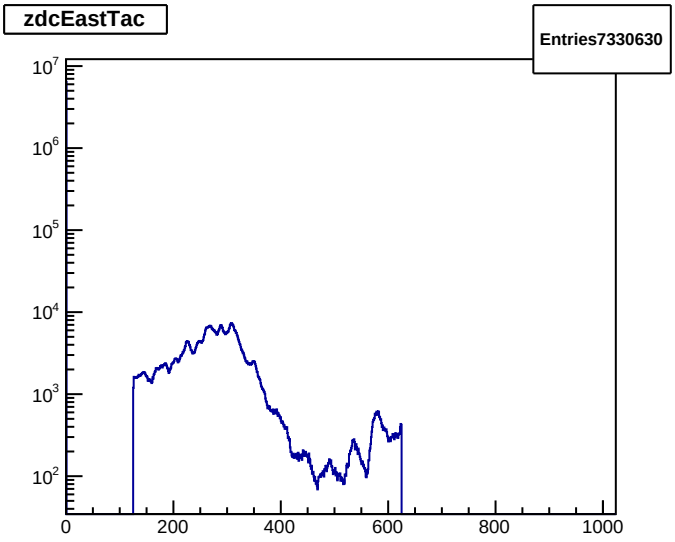

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

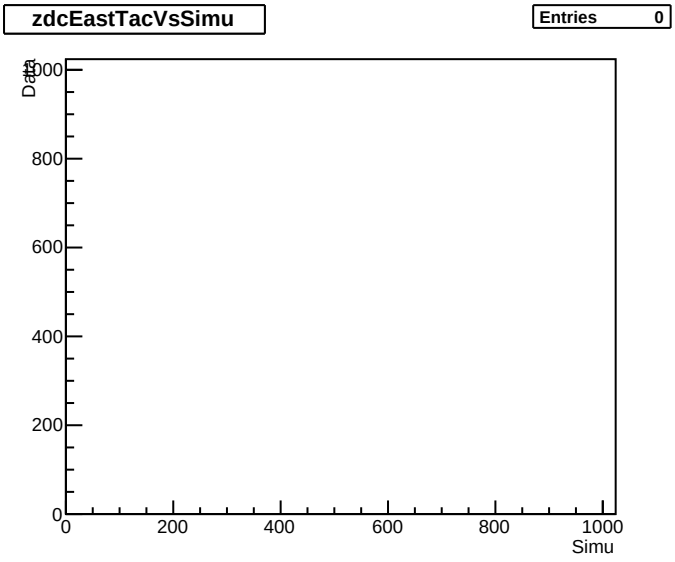

vpdWestAdcSum
Entries7330630

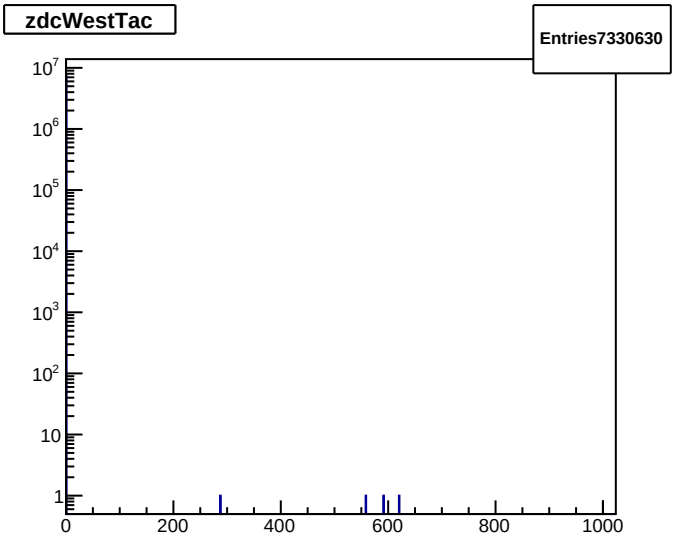

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

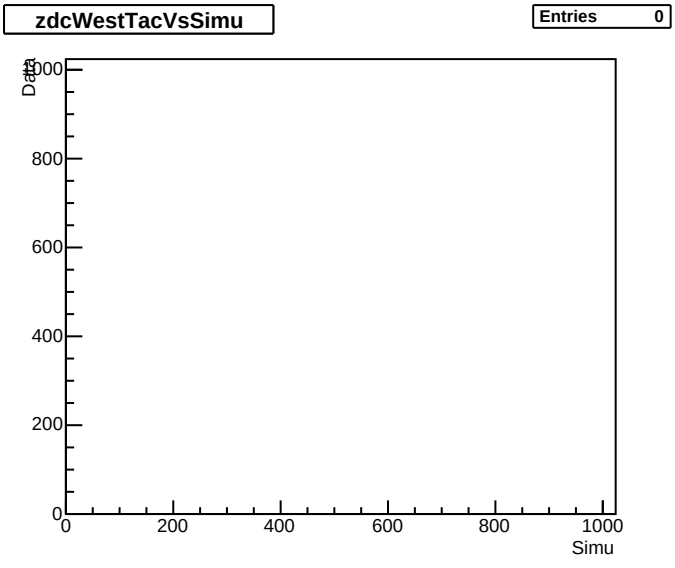

vpdWestTacMax
Entries7330630

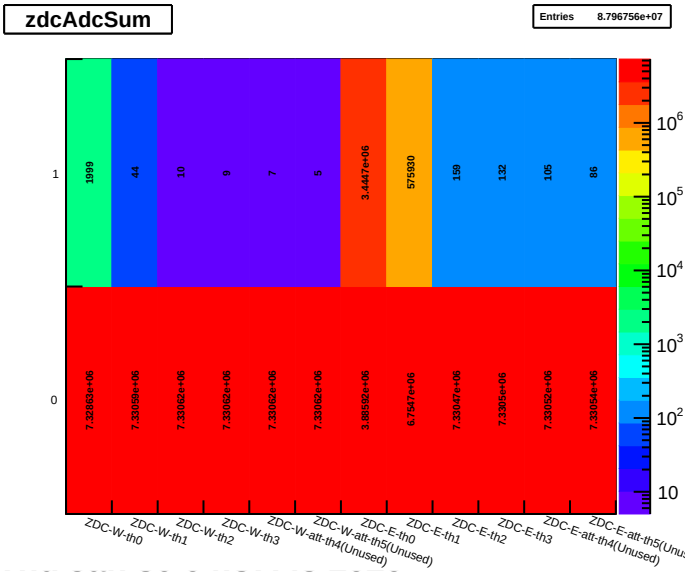

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

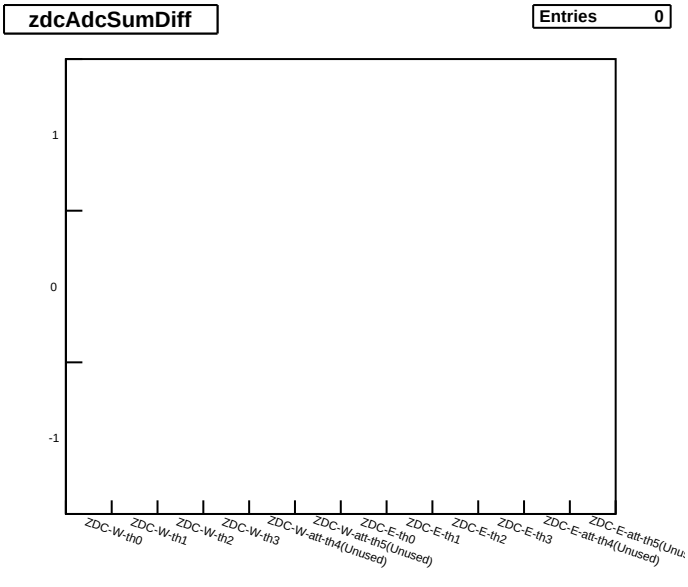

zdcEastTac
Entries7330630

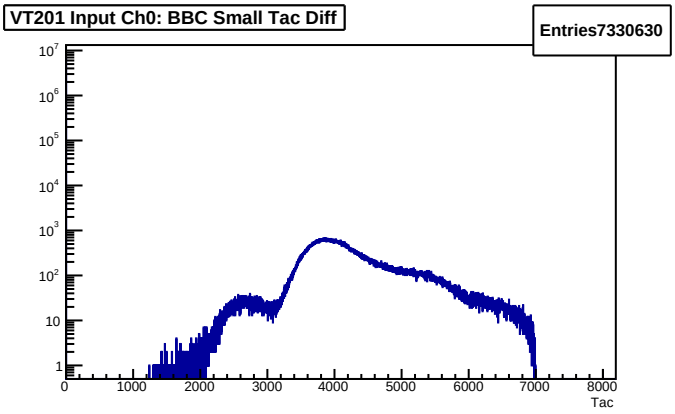

zdcEastTacVsSimu
Entries 0
Data
Simu

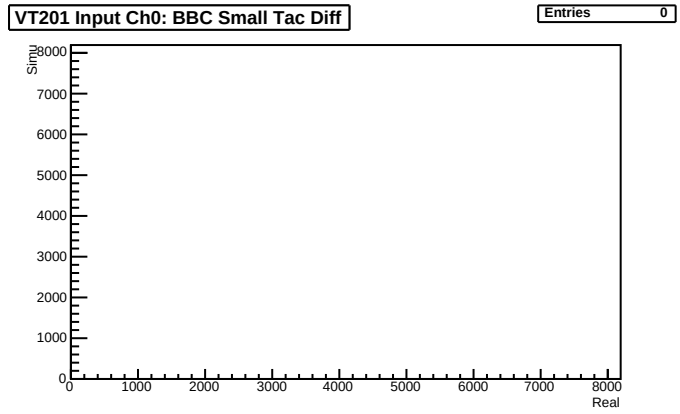

zdcWestTac
Entries7330630

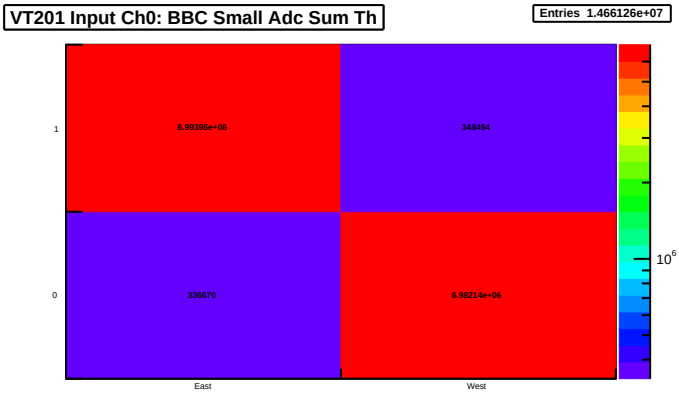

zdcWestTacVsSimu
Entries 0
Data
Simu

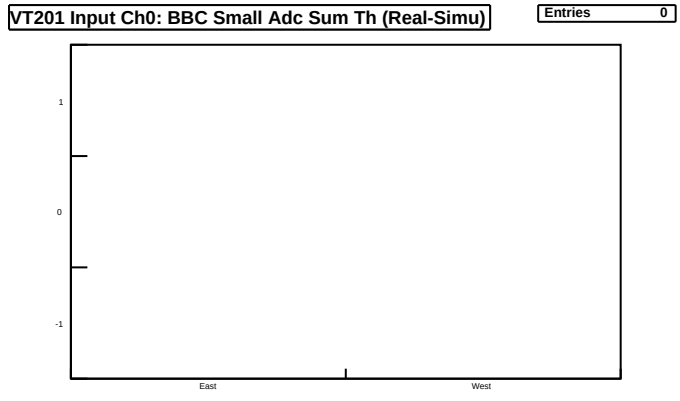

zdcAdcSum
Entries 8.796756e+07
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

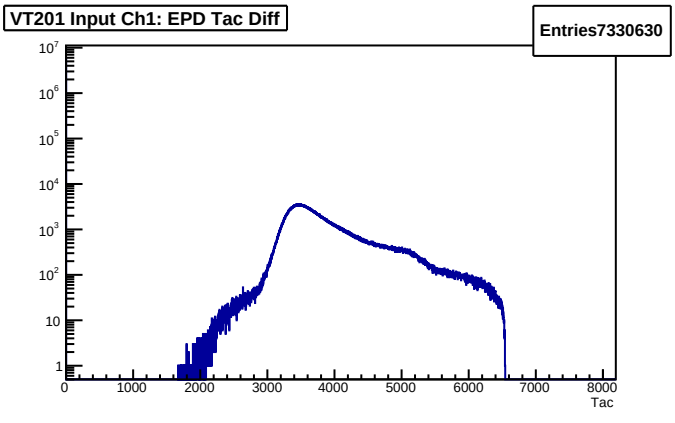

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

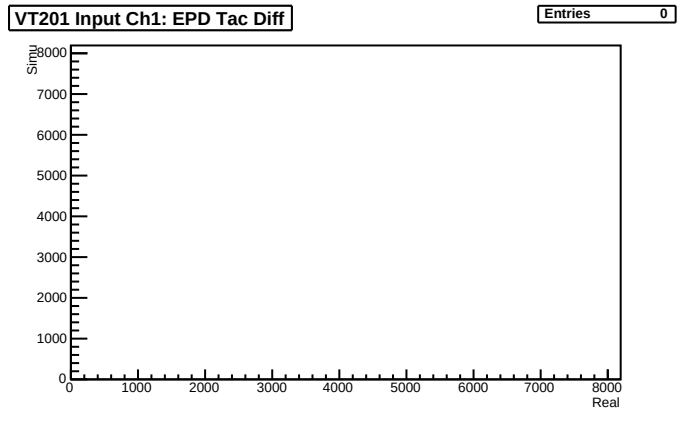

VT201 Input Ch0: BBC Small Tac Diff
Entries7330630
Tac

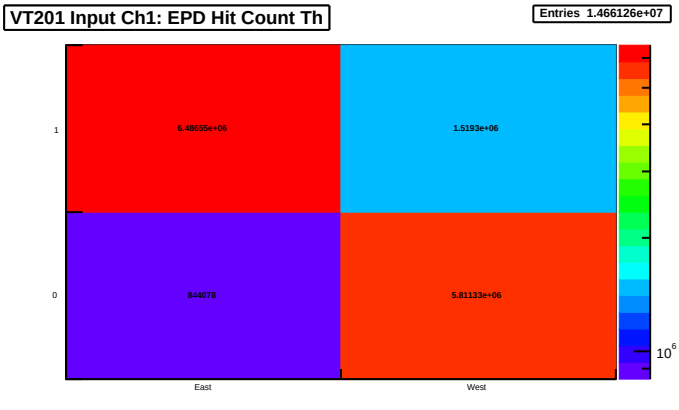

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

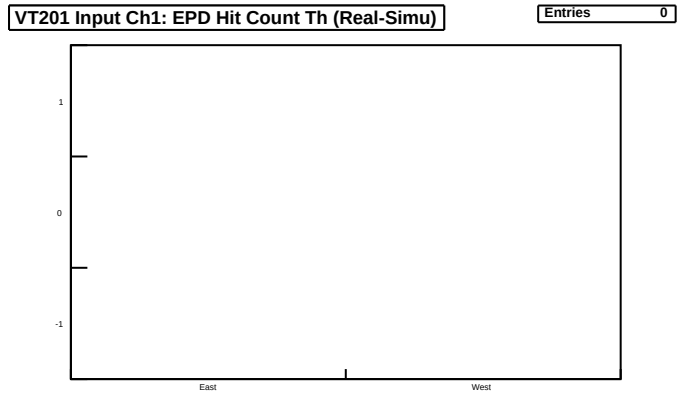

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1.466126e+07
6.99396e+06
348494
336670
6.98214e+06
East
West

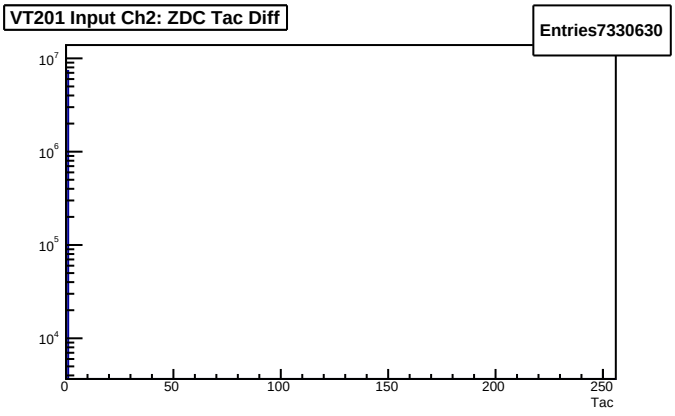

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

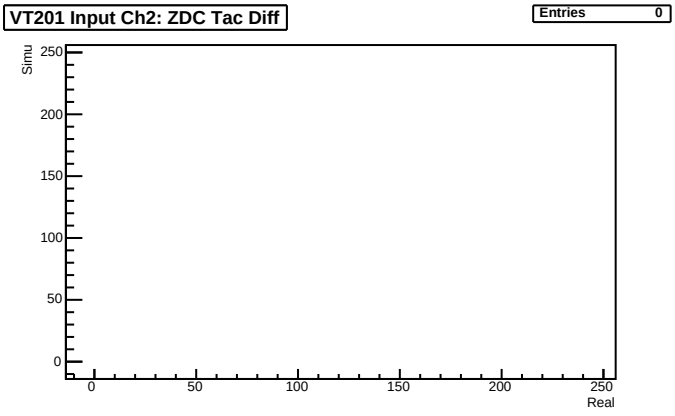

VT201 Input Ch1: EPD Tac Diff
Entries7330630
Tac

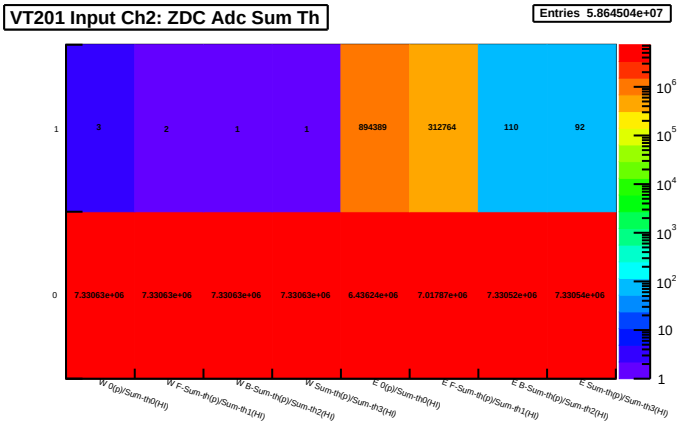

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

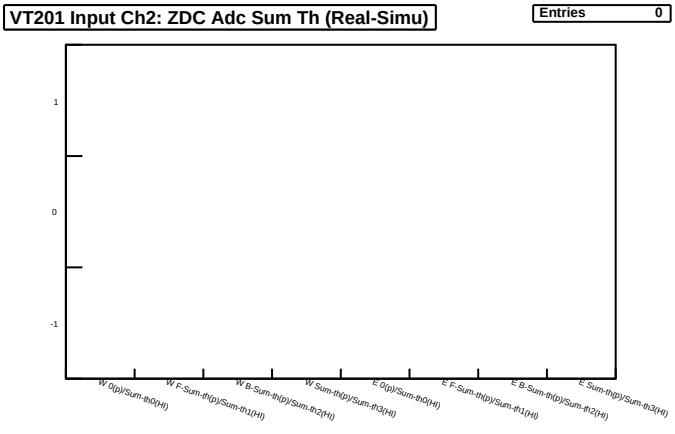

VT201 Input Ch1: EPD Hit Count Th
Entries 1.466126e+07
6.48655e+06
1.5193e+06
844078
5.81133e+06
East
West

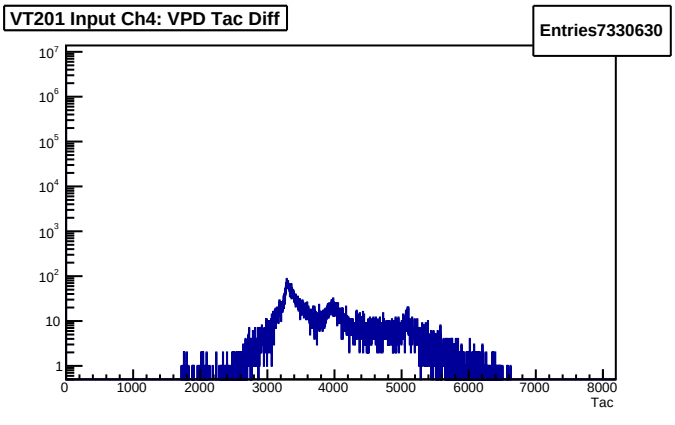

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

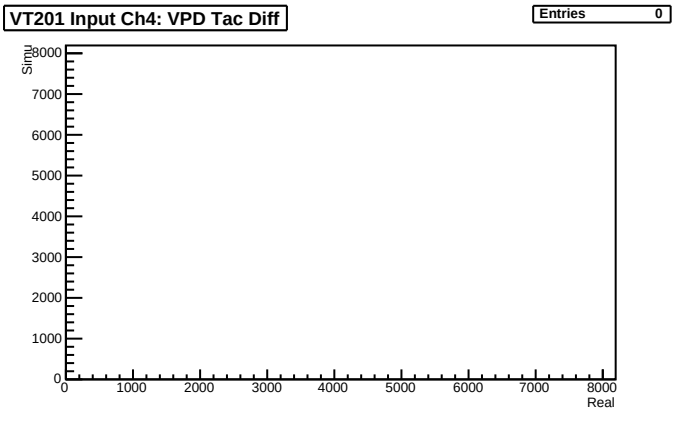

VT201 Input Ch2: ZDC Tac Diff
Entries7330630
Tac

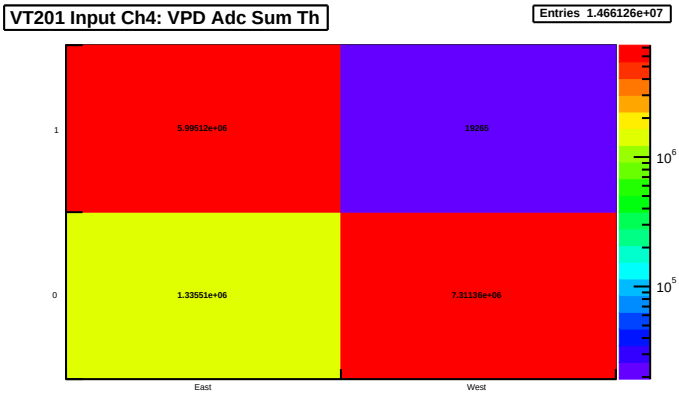

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

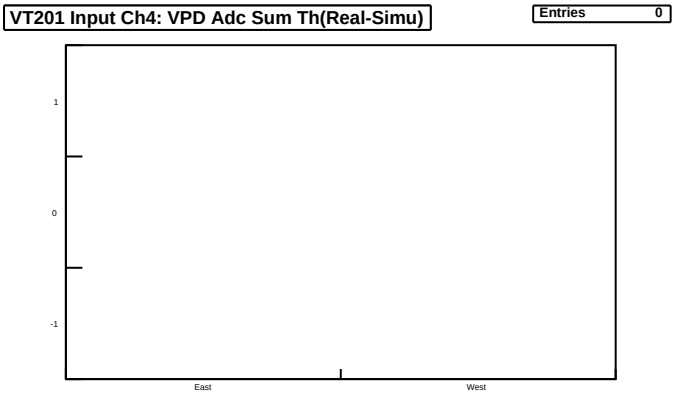

VT201 Input Ch2: ZDC Adc Sum Th
Entries 5.864504e+07
3
2
1
1
894389
312764
110
92
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
6.43624e+06
7.01787e+06
7.33052e+06
7.33054e+06
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

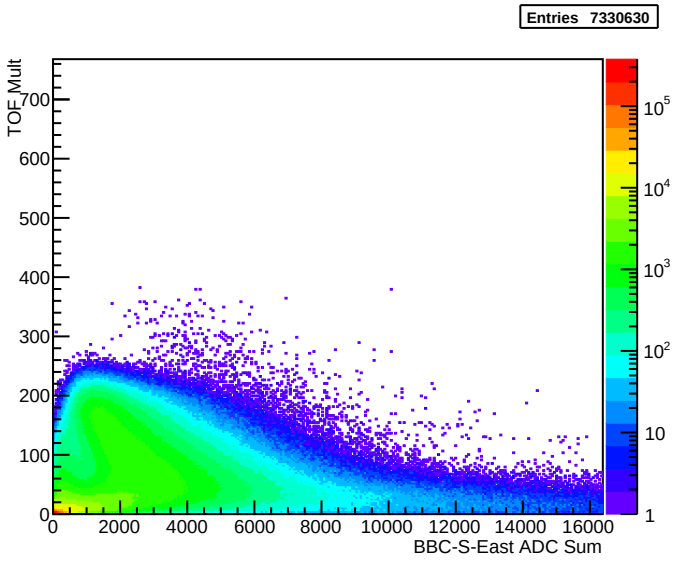

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

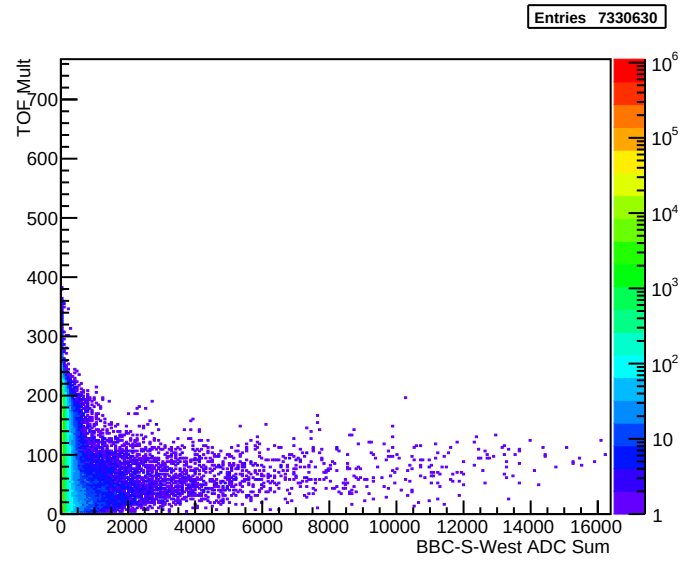

VT201 Input Ch4: VPD Tac Diff
Entries7330630
Tac

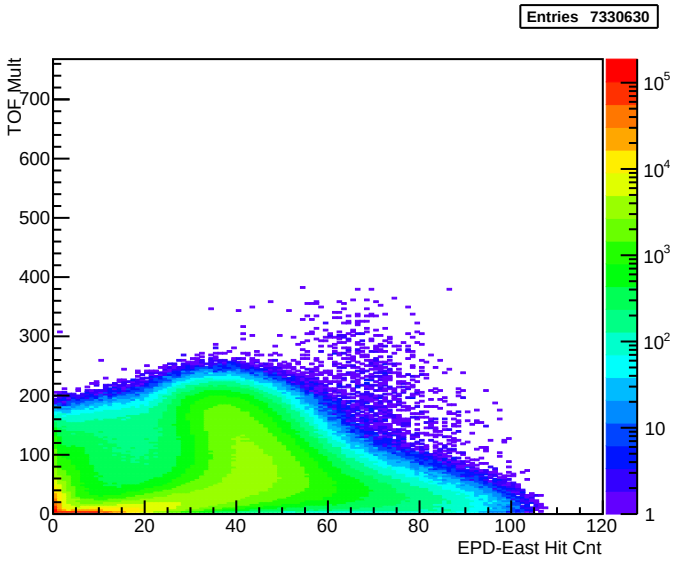

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

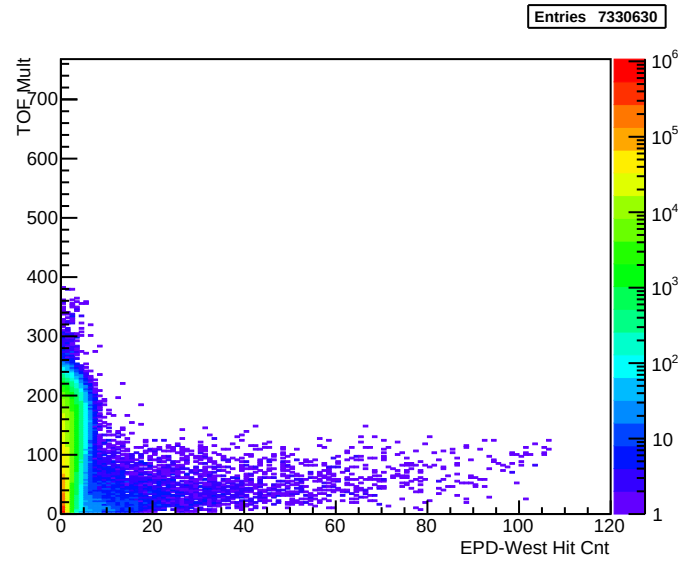

VT201 Input Ch4: VPD Adc Sum Th
Entries 1.466126e+07
5.99512e+06
19265
1.33551e+06
7.31136e+06
East
West

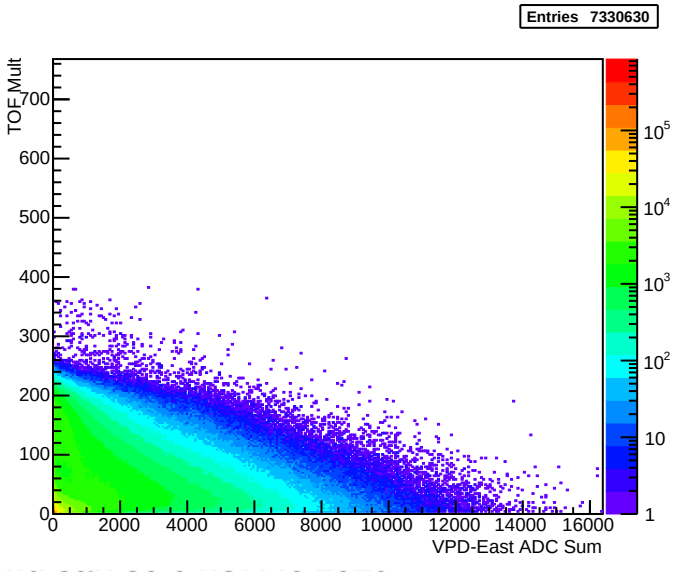

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

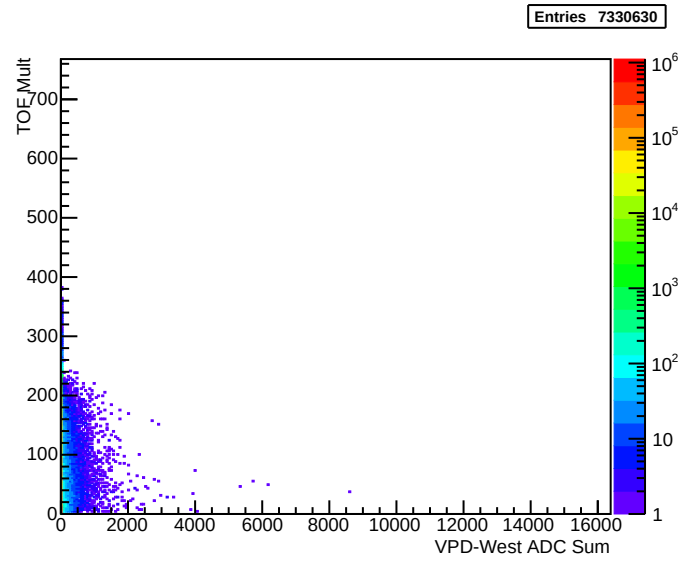

Entries 7330630
TOF_Mult
BBC-S-East ADC Sum

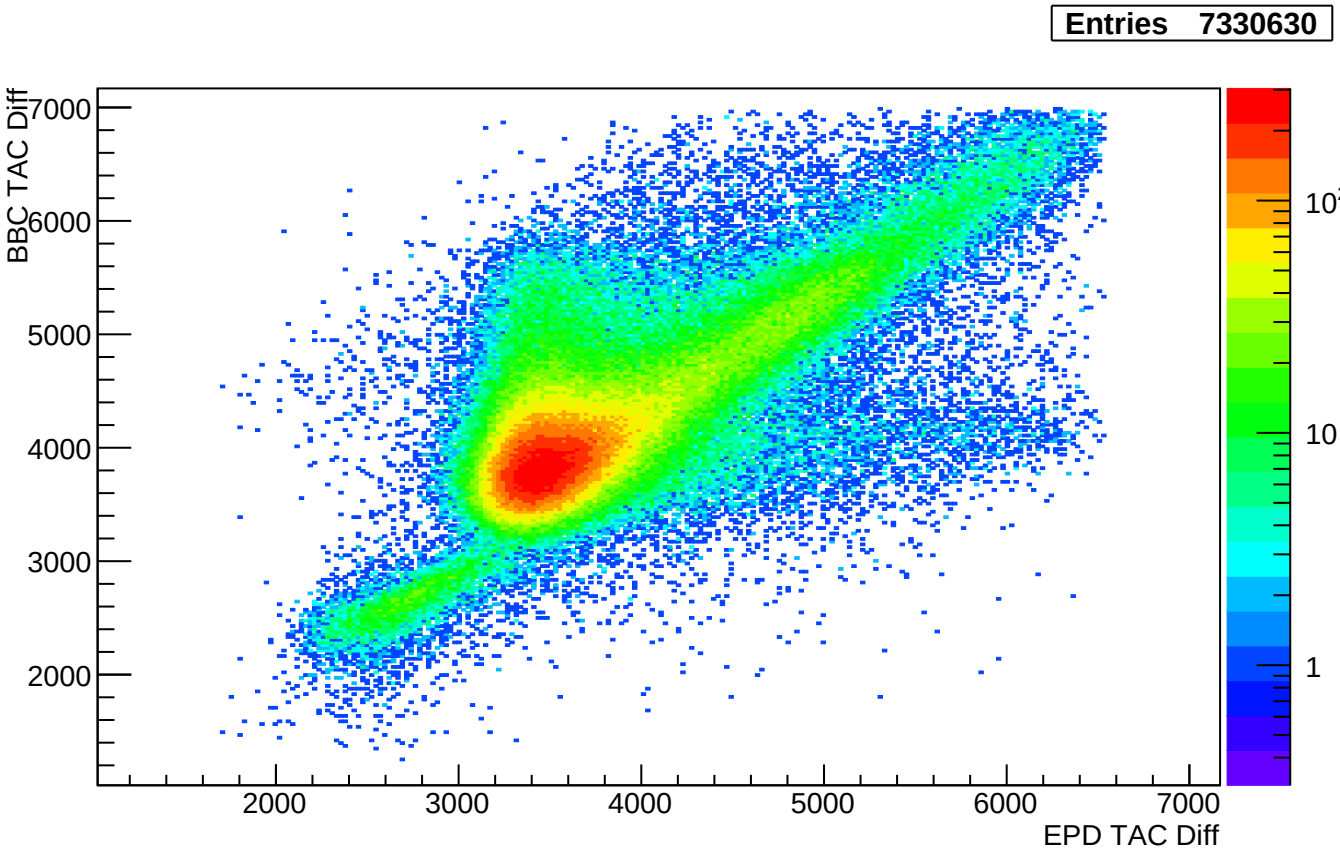

Entries 7330630
TOF_Mult
BBC-S-West ADC Sum

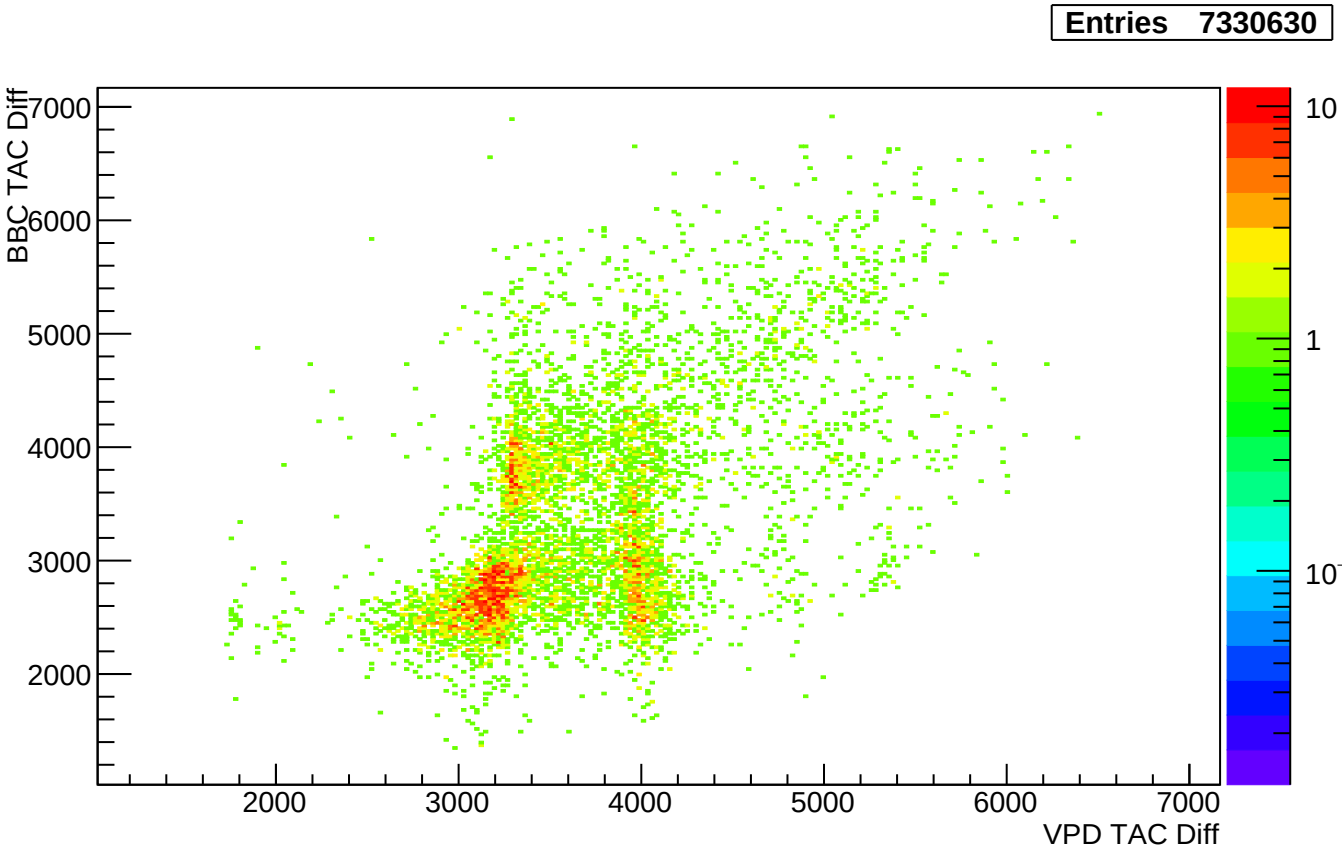

Entries 7330630
TOF_Mult
EPD-East Hit Cnt

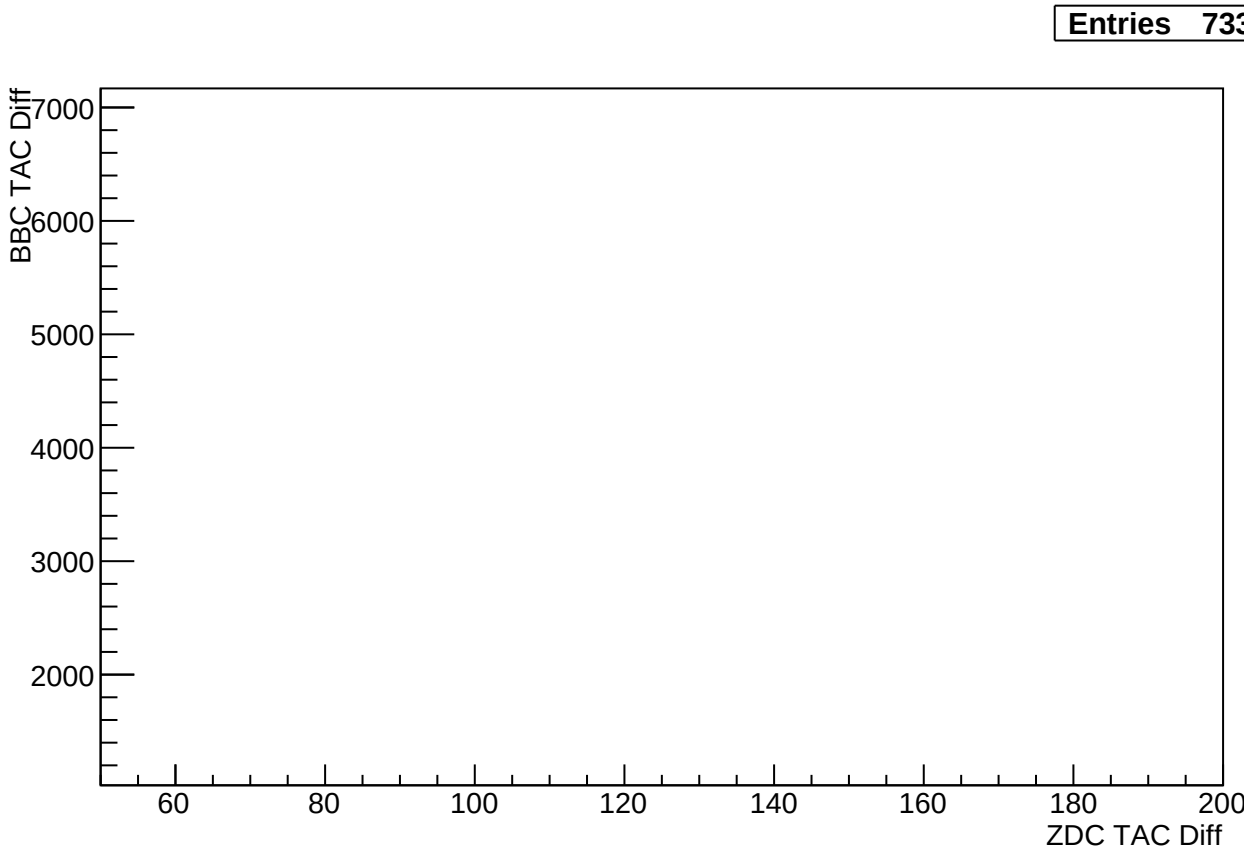

Entries 7330630
TOF_Mult
EPD-West Hit Cnt

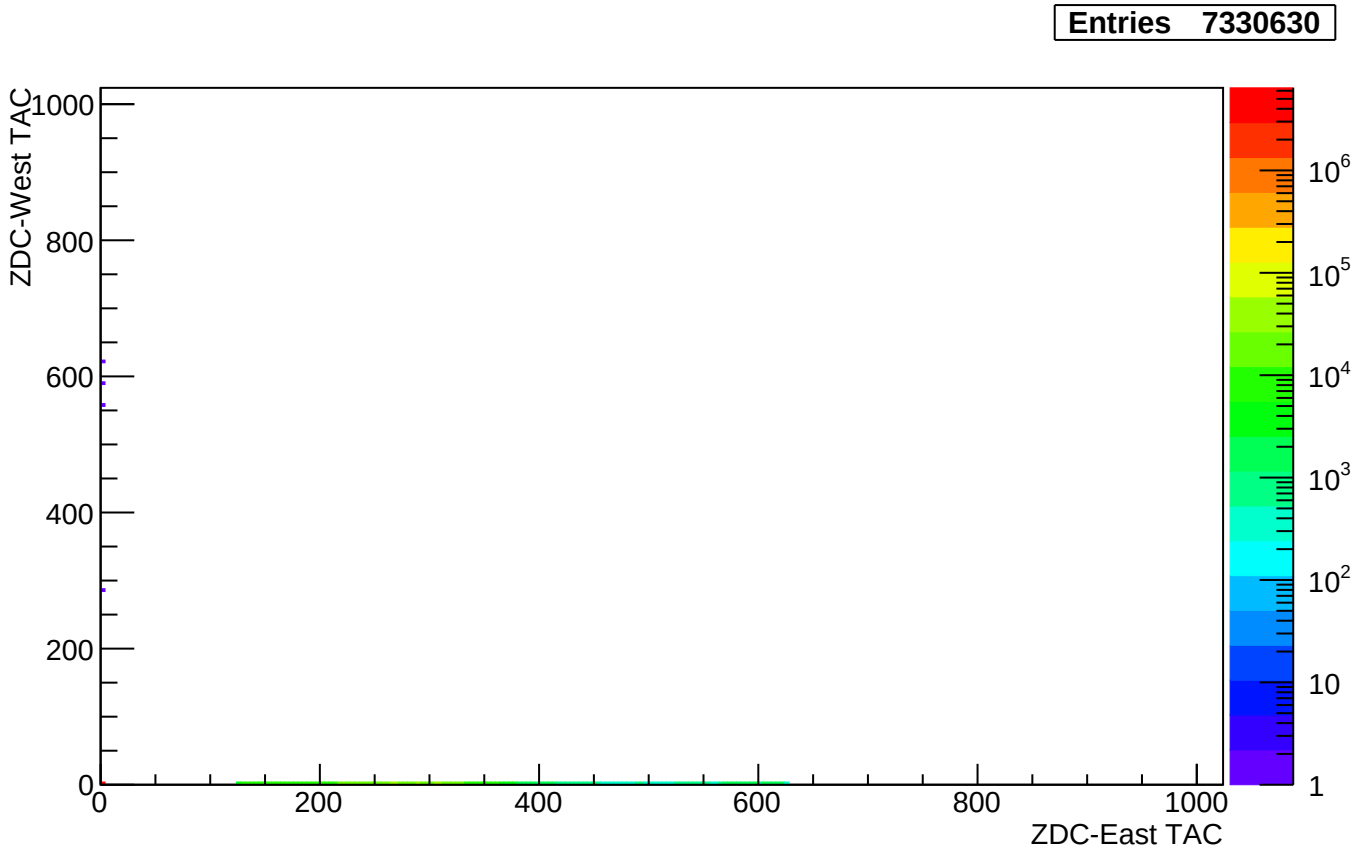

Entries 7330630
TOF_Mult
VPD-East ADC Sum

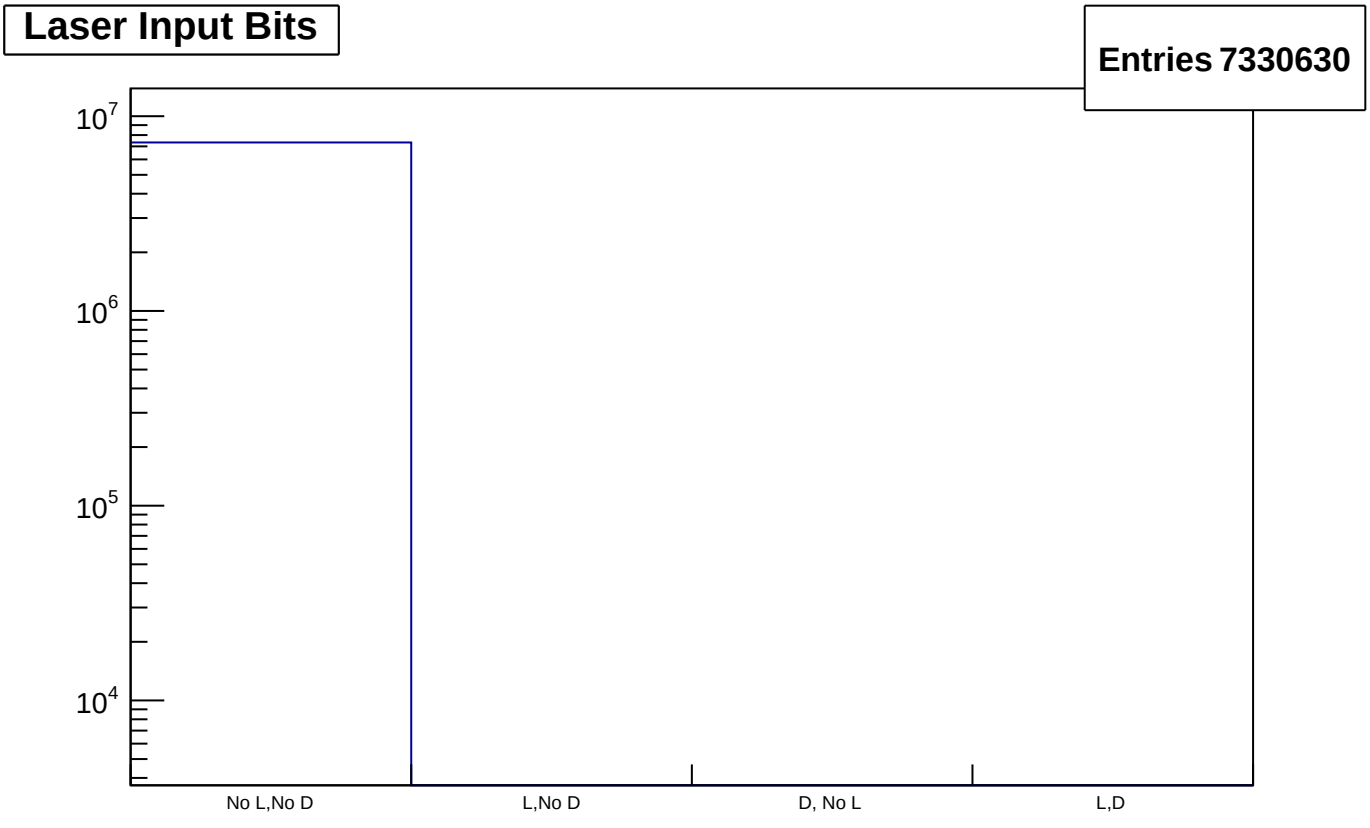

Entries 7330630
TOF_Mult
VPD-West ADC Sum

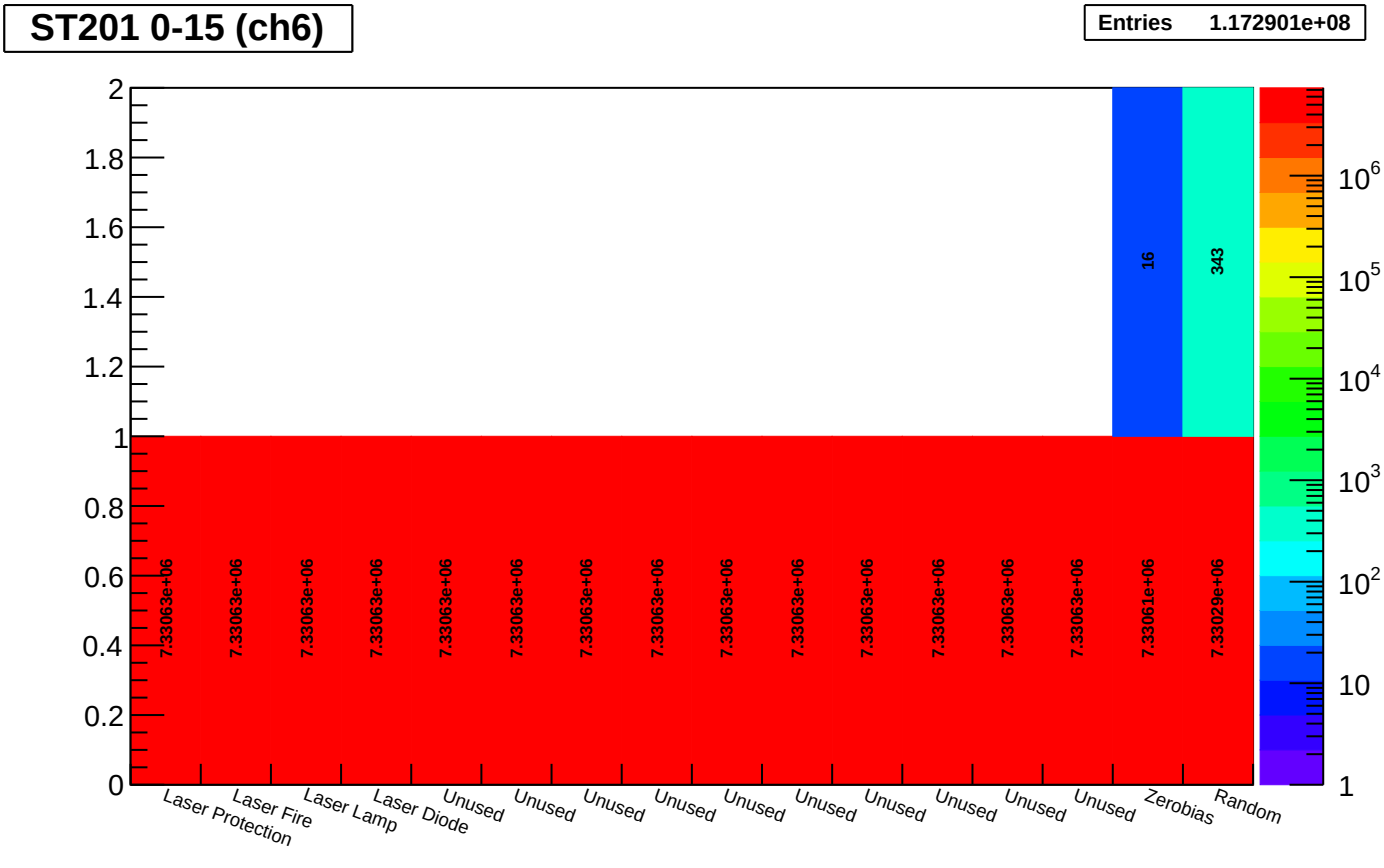

Entries 7330630
BBC TAC Diff
EPD TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
$10^2$
10
1


Entries 7330630
BBC TAC Diff
VPD TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
10
1
$10^{-1}$

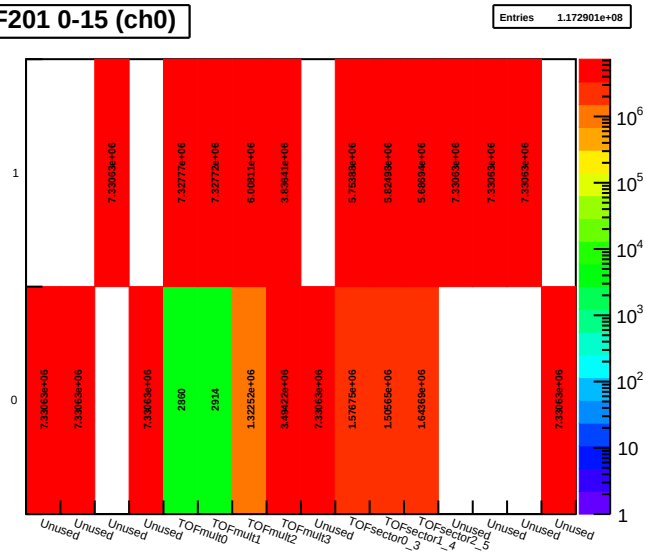

Entries 7330630
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff


Entries 7330630
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

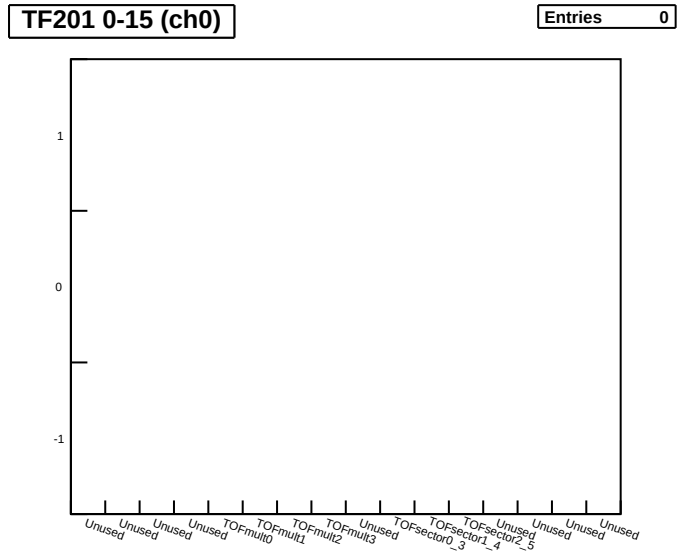

Laser Input Bits
Entries 7330630
$10^7$
$10^6$
$10^5$
$10^4$
No L,No D
L,No D
D, No L
L,D


ST201 0-15 (ch6)
Entries 1.172901e+08
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33063e+06
7.33061e+06
7.33029e+06
16
343
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

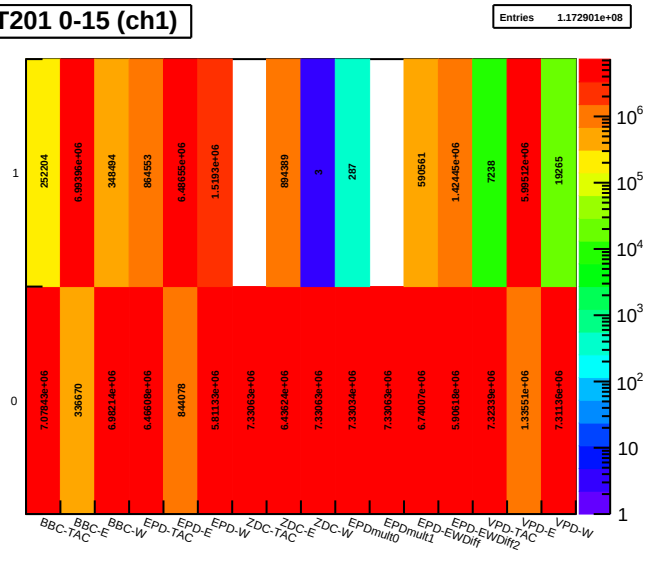
## TF201 0-15 (ch0)



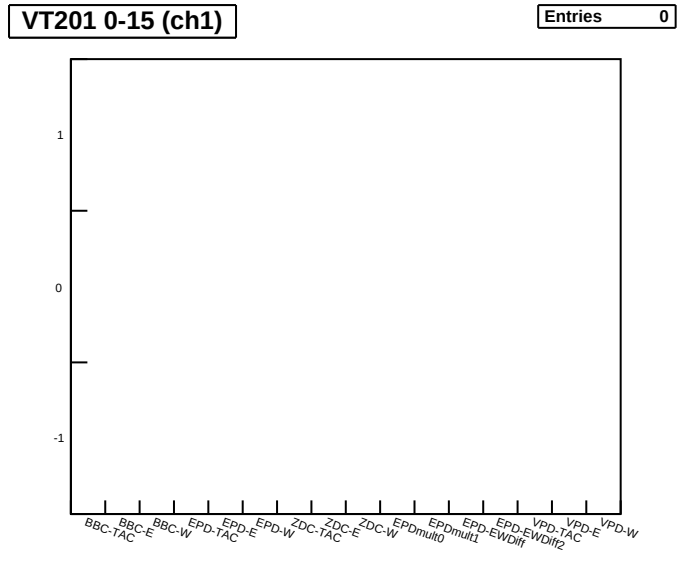

## TF201 0-15 (ch0)



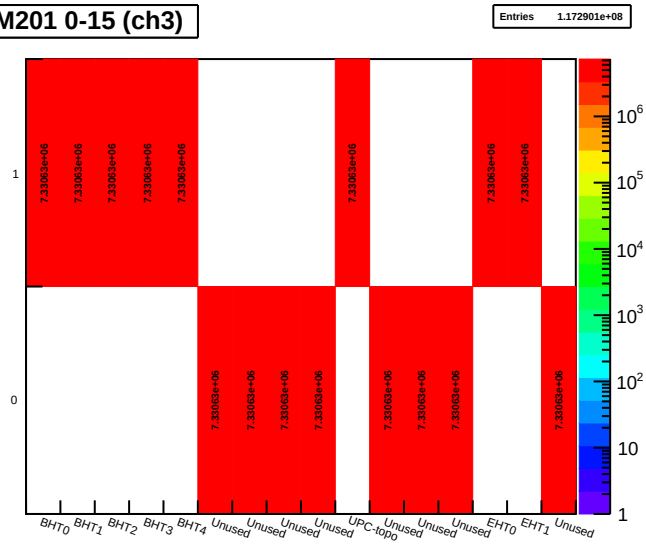

## VT201 0-15 (ch1)

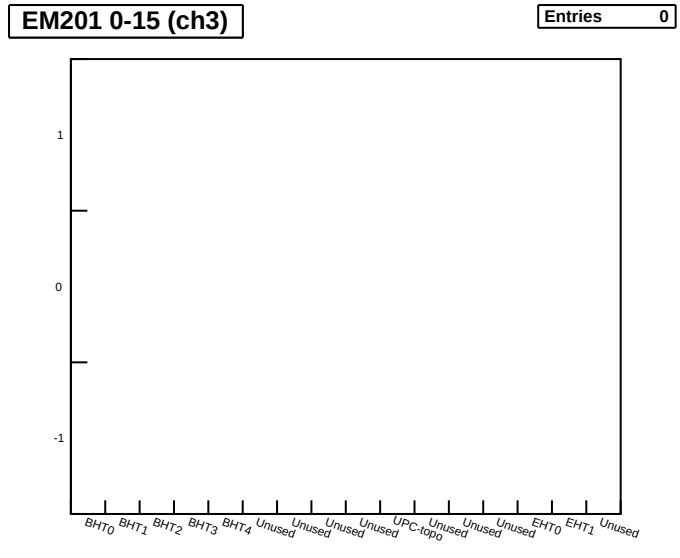



## VT201 0-15 (ch1)




## EM201 0-15 (ch3)




## EM201 0-15 (ch3)