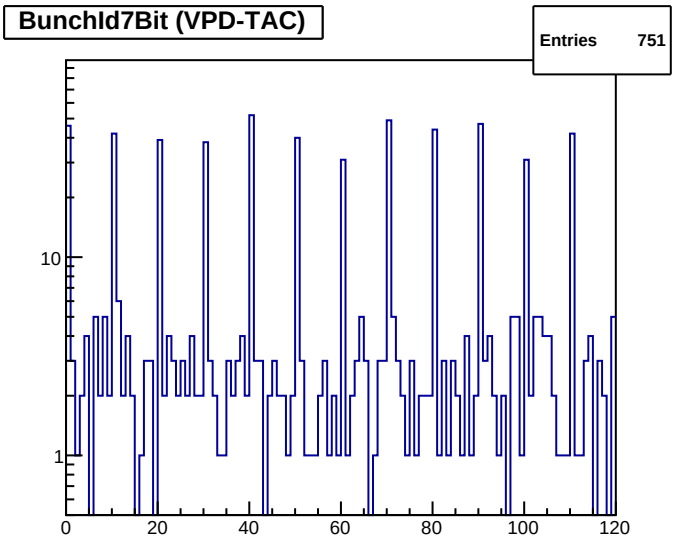
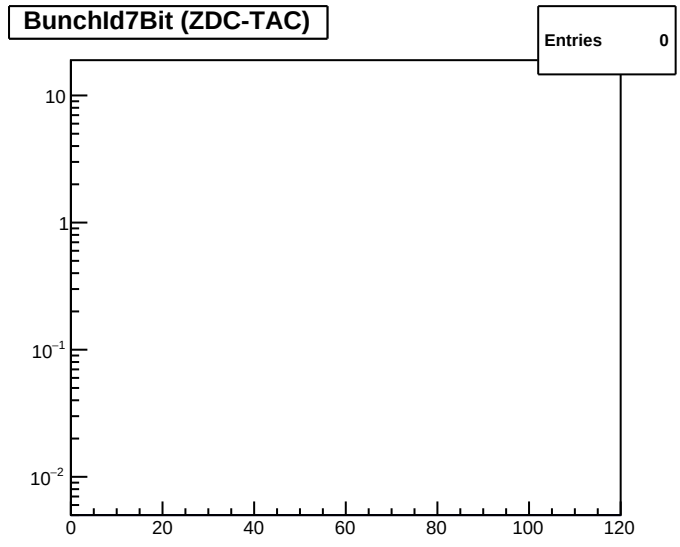
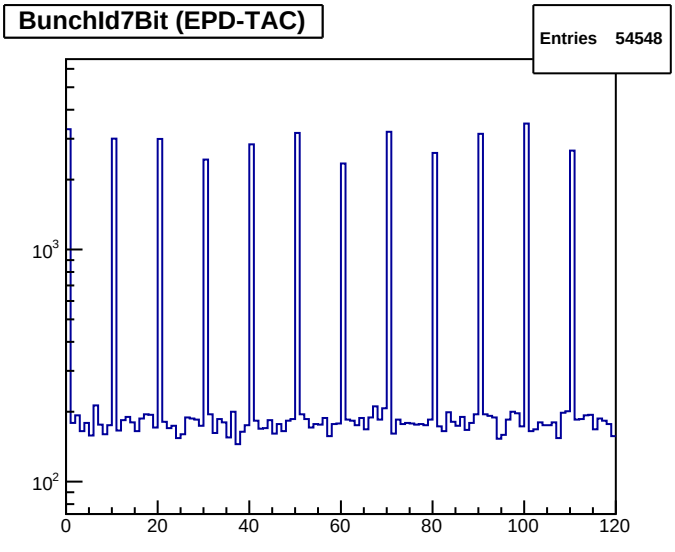
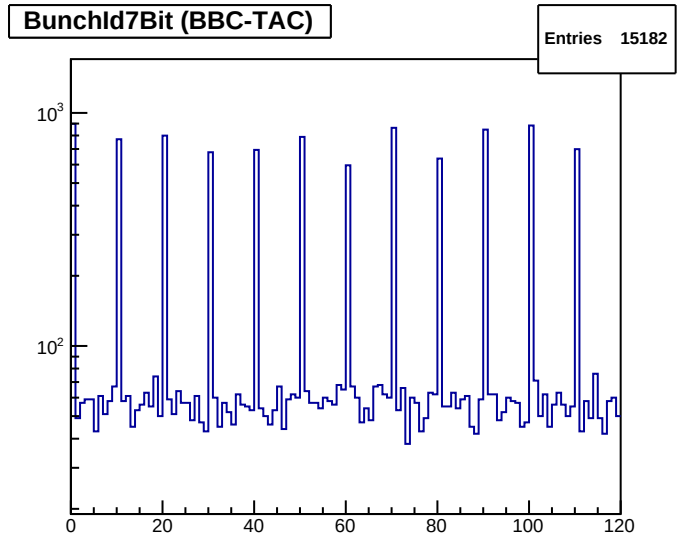
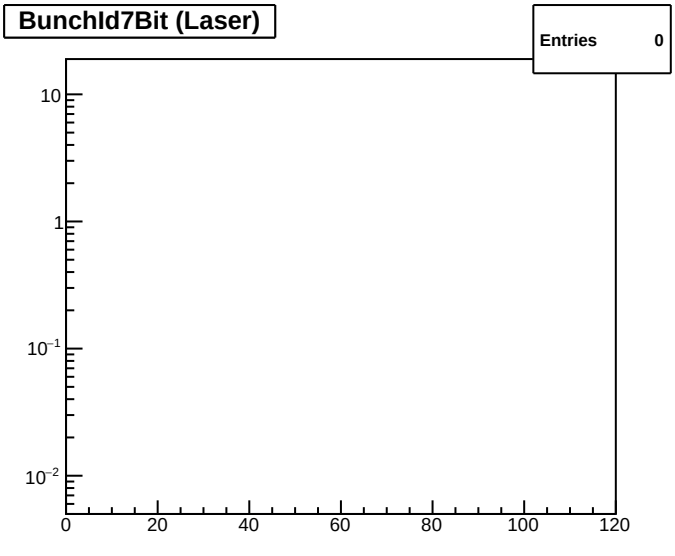
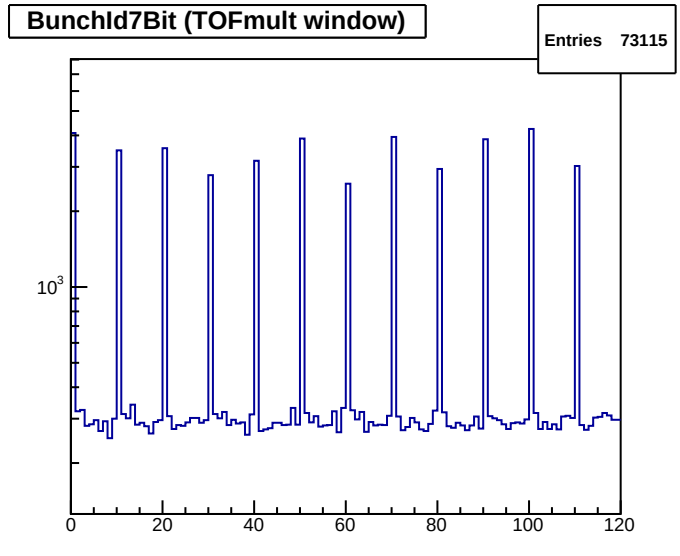

BunchId7Bit (VPD-TAC)
Entries 751
10
1
0
20
40
60
80
100
120

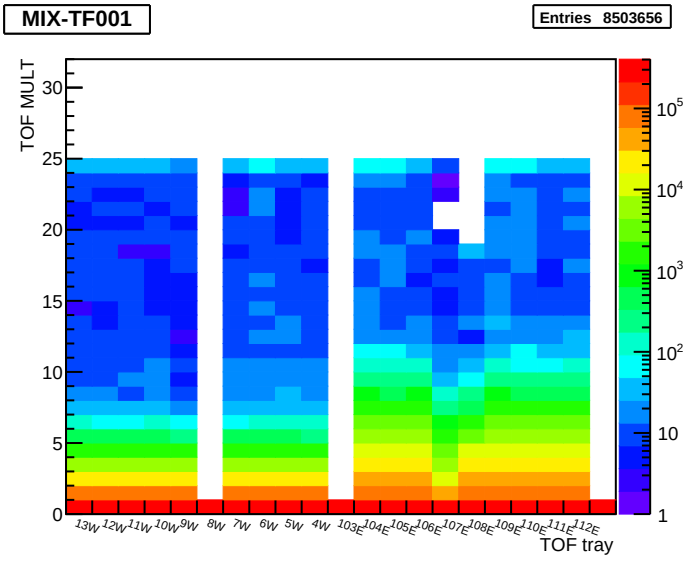

BunchId7Bit (ZDC-TAC)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

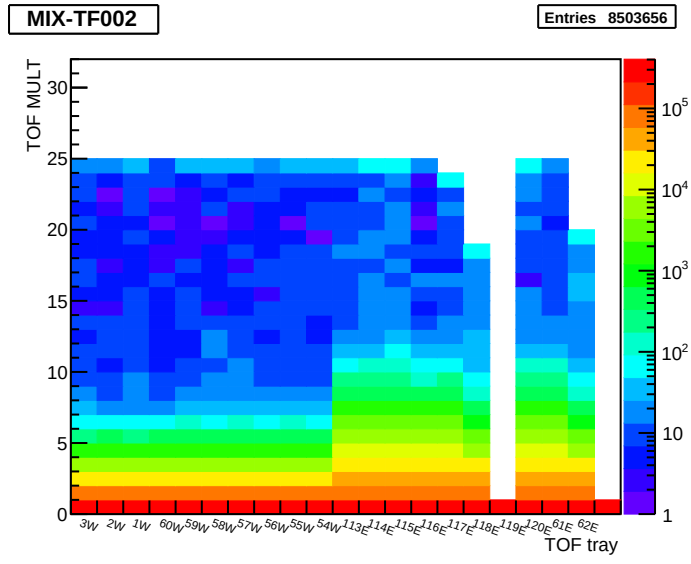

BunchId7Bit (EPD-TAC)
Entries 54548
$10^{3}$
$10^{2}$
0
20
40
60
80
100
120

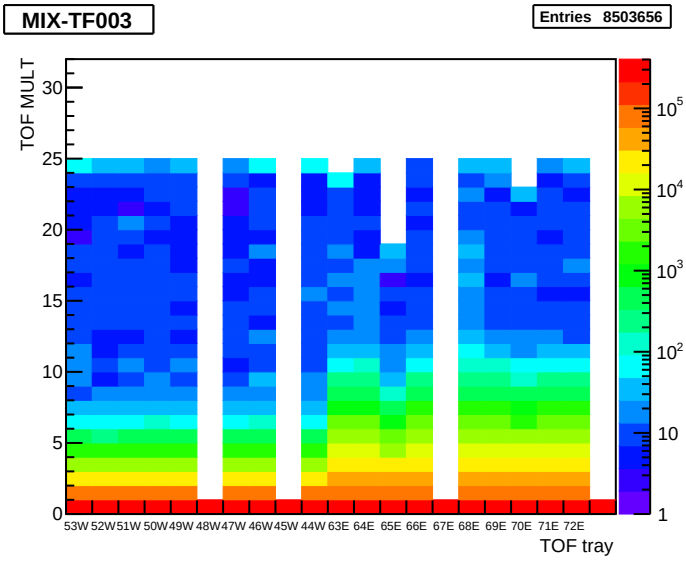

BunchId7Bit (BBC-TAC)
Entries 15182
$10^{3}$
$10^{2}$
0
20
40
60
80
100
120

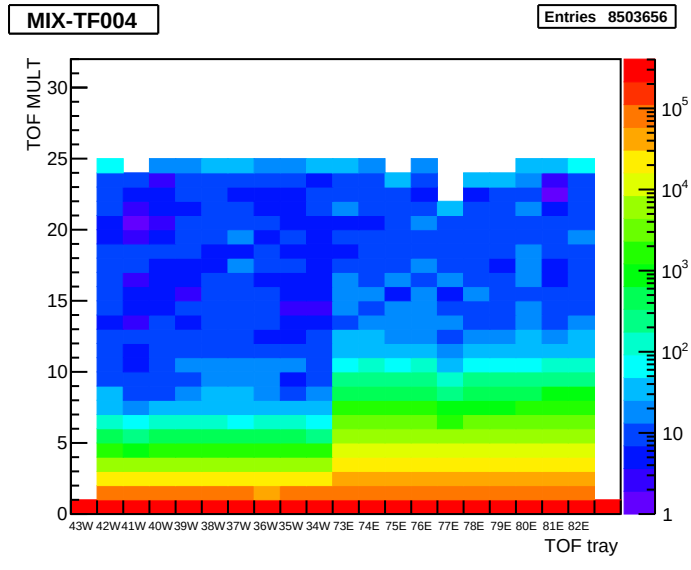

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

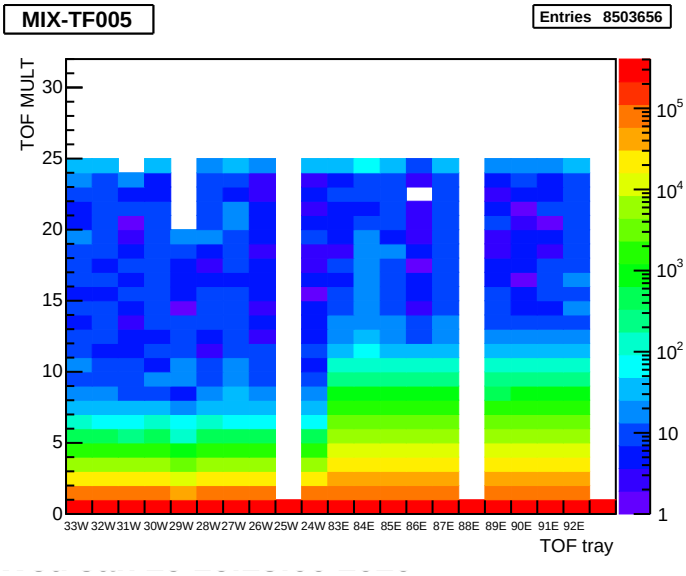

BunchId7Bit (TOFmult window)
Entries 73115
$10^{3}$
0
20
40
60
80
100
120

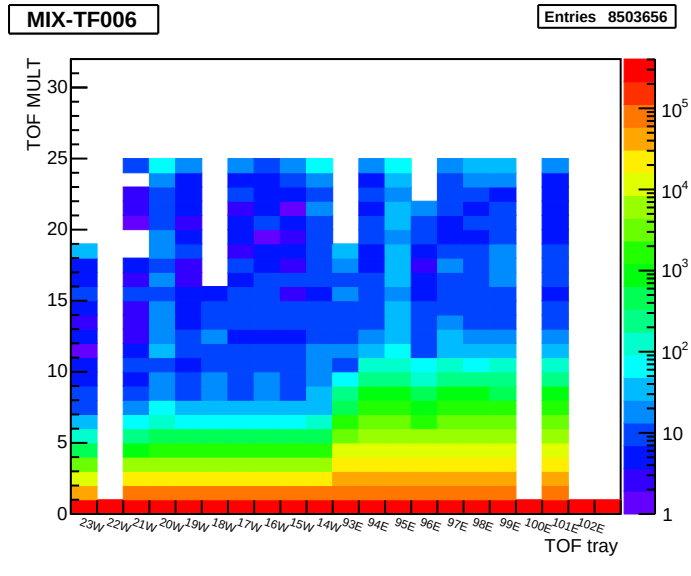

MIX-TF001
Entries 8503656
TOF MULT
TOF tray

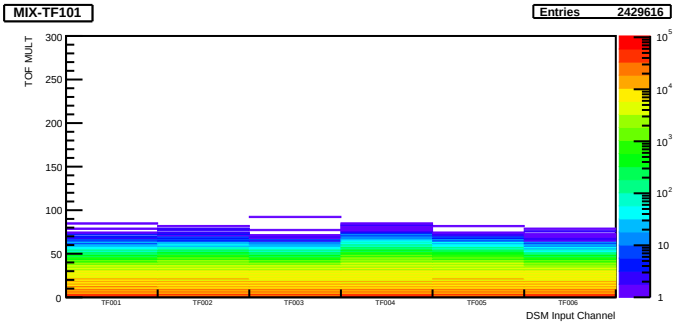

MIX-TF002
Entries 8503656
TOF MULT
TOF tray

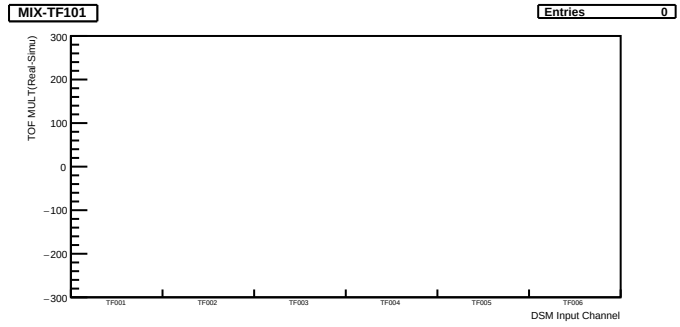

MIX-TF003
Entries 8503656
TOF MULT
TOF tray

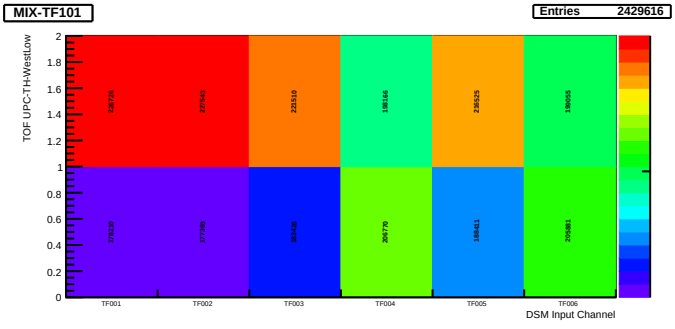

MIX-TF004
Entries 8503656
TOF MULT
TOF tray

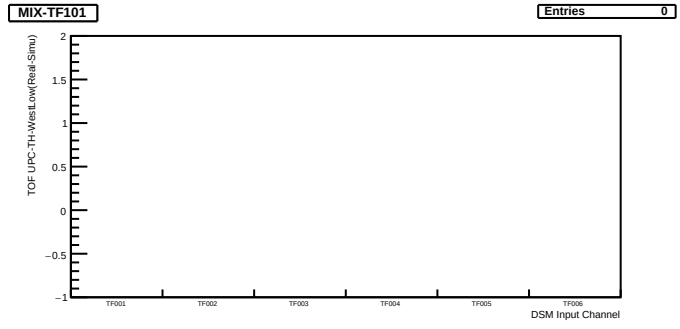

MIX-TF005
Entries 8503656
TOF MULT
TOF tray

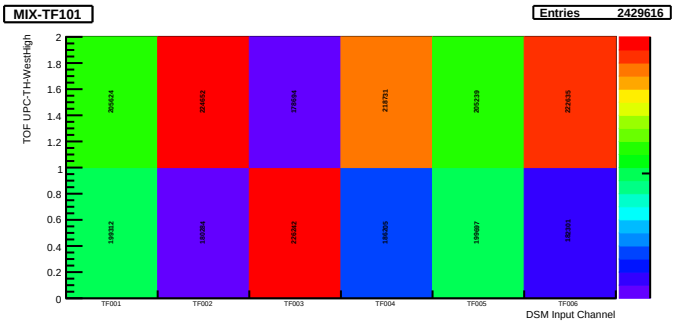

MIX-TF006
Entries 8503656
TOF MULT
TOF tray

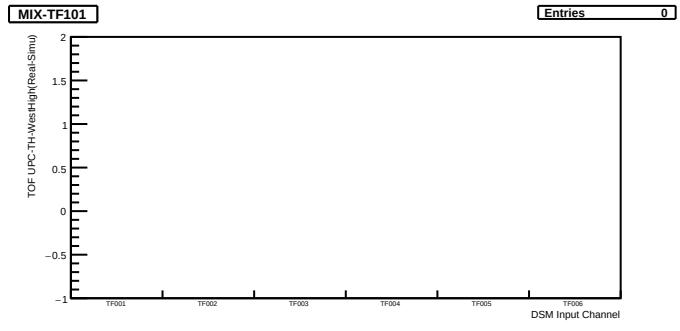

MIX-TF101
Entries 2429616
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

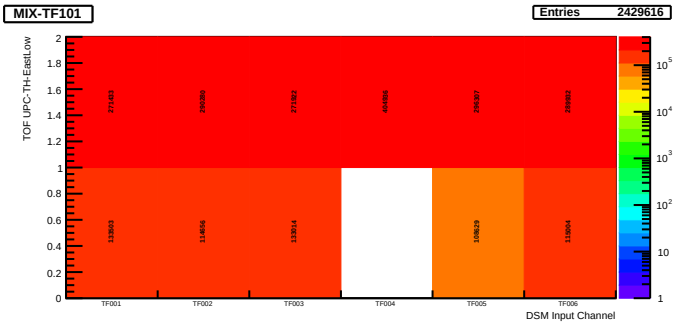

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

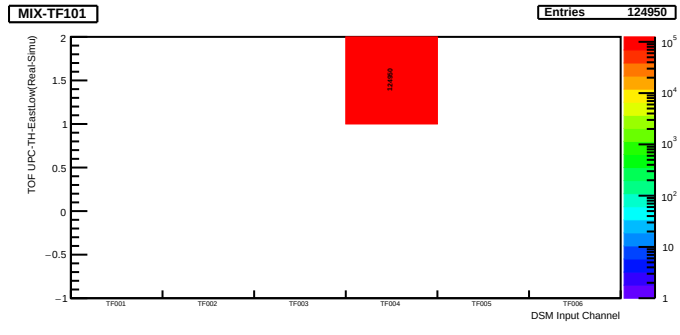

MIX-TF101
Entries 2429616
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

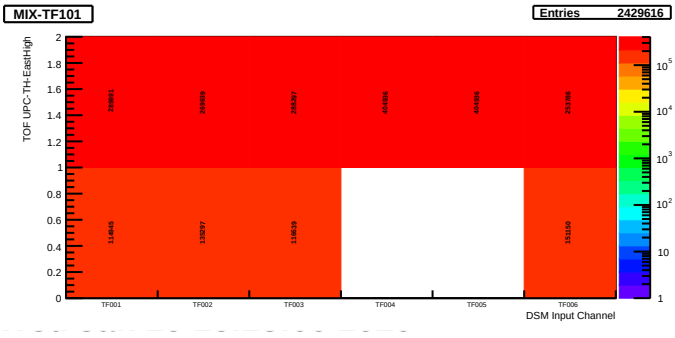

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

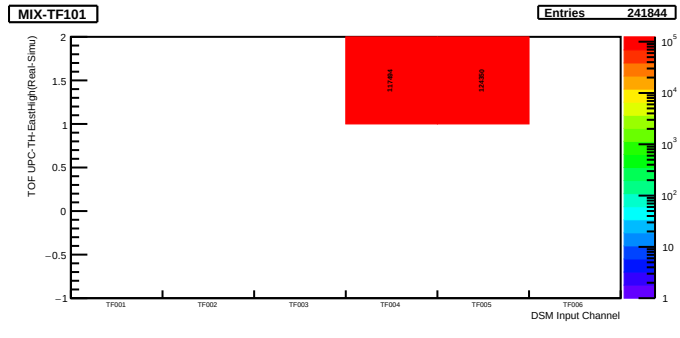

MIX-TF101
Entries 2429616
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

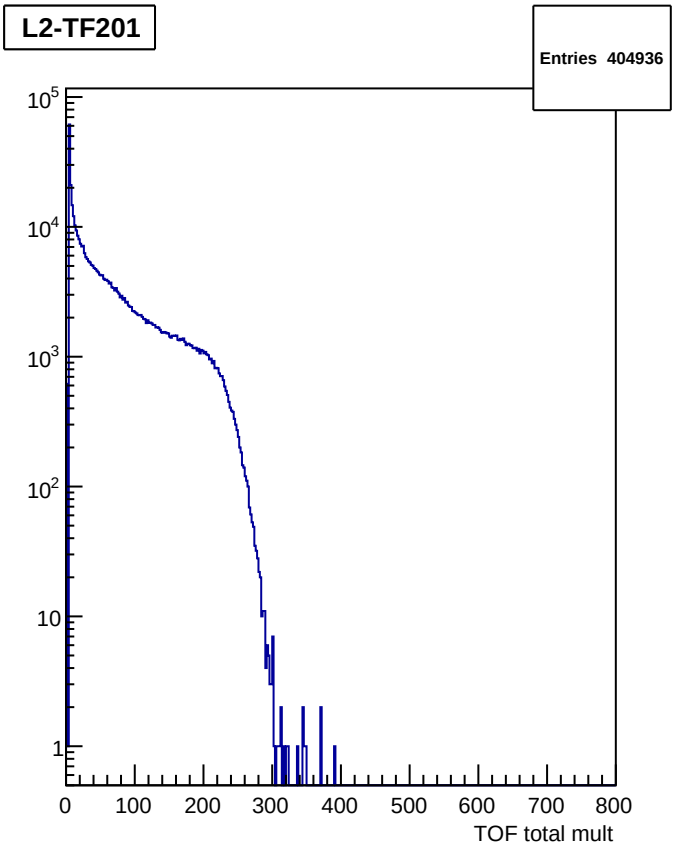

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

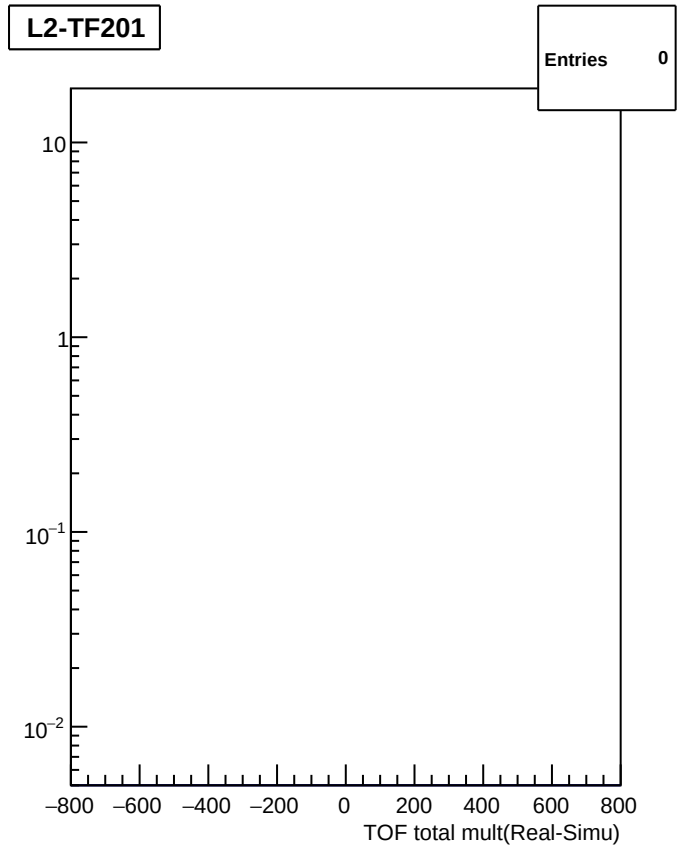

MIX-TF101
Entries 2429616
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

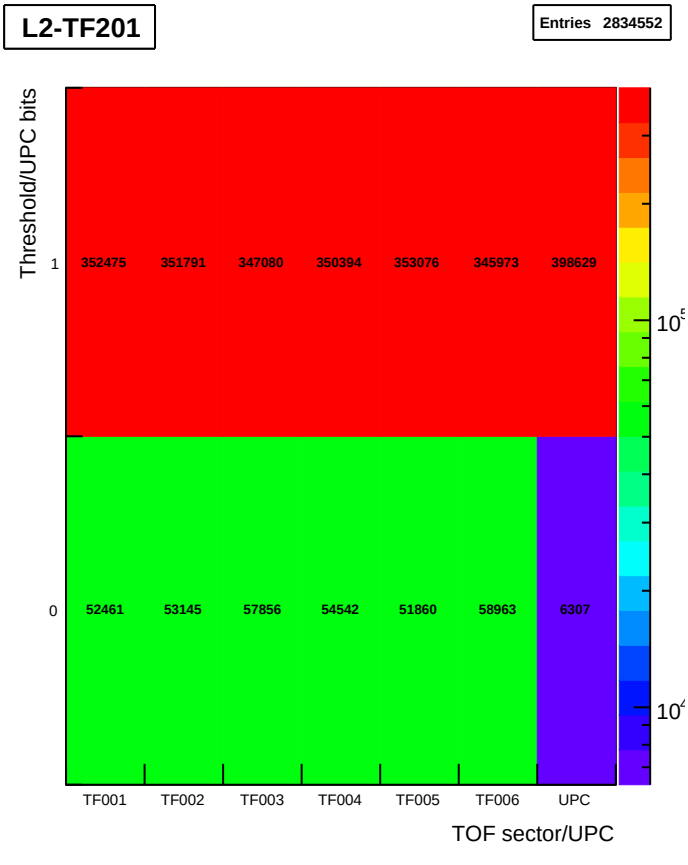

MIX-TF101
Entries 124950
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

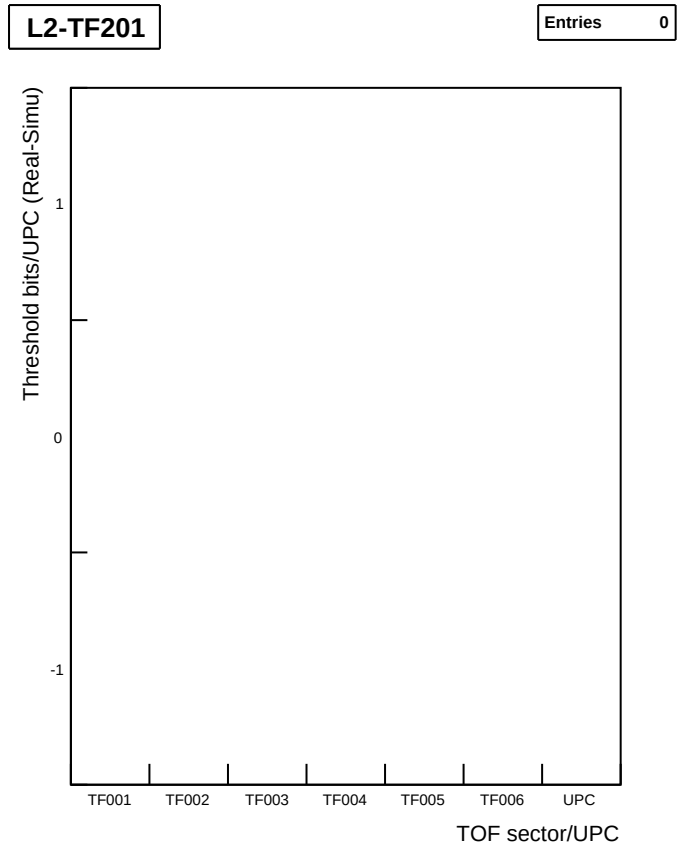

MIX-TF101
Entries 2429616
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

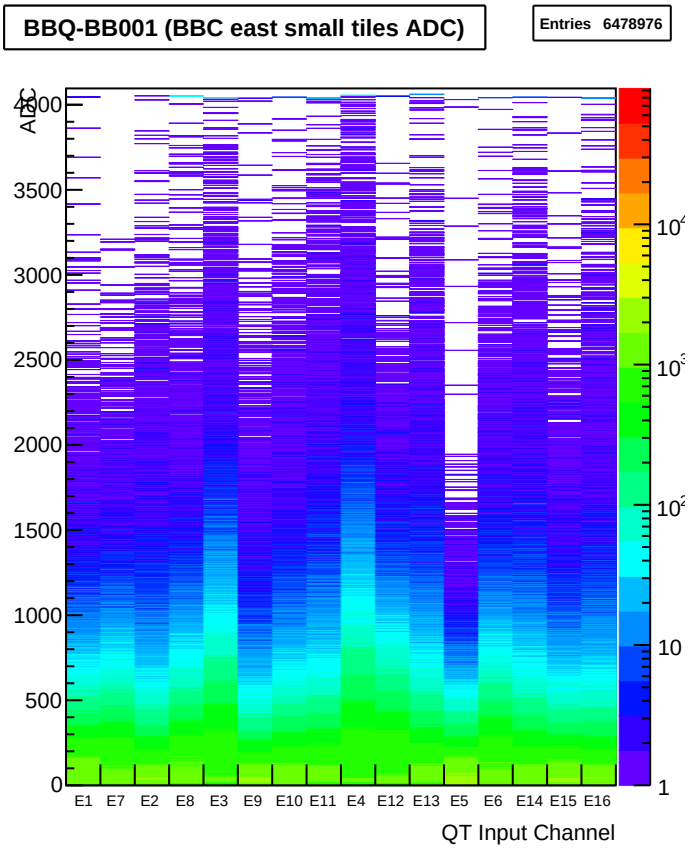

MIX-TF101
Entries 241844
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

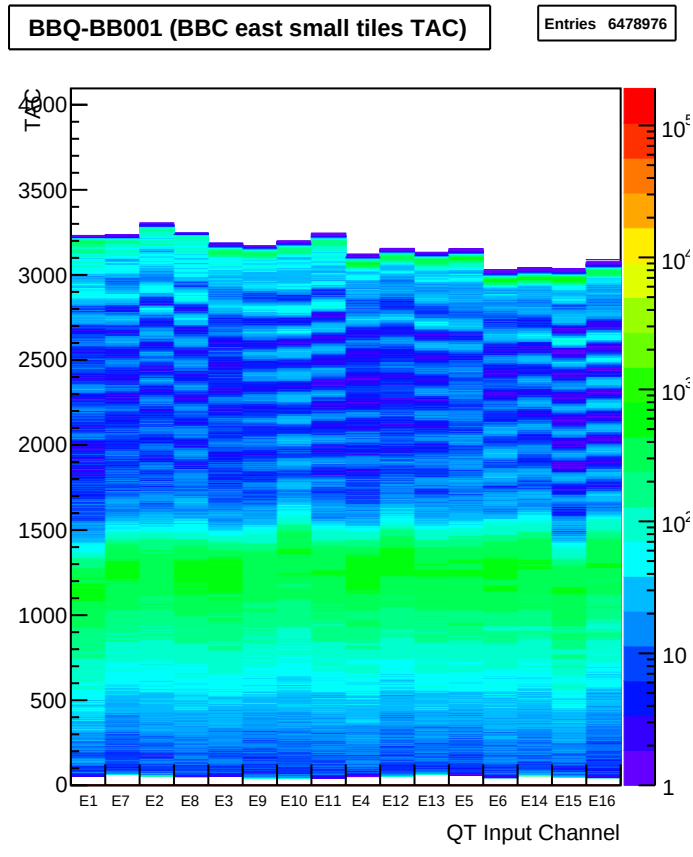

L2-TF201
Entries 404936
TOF total mult

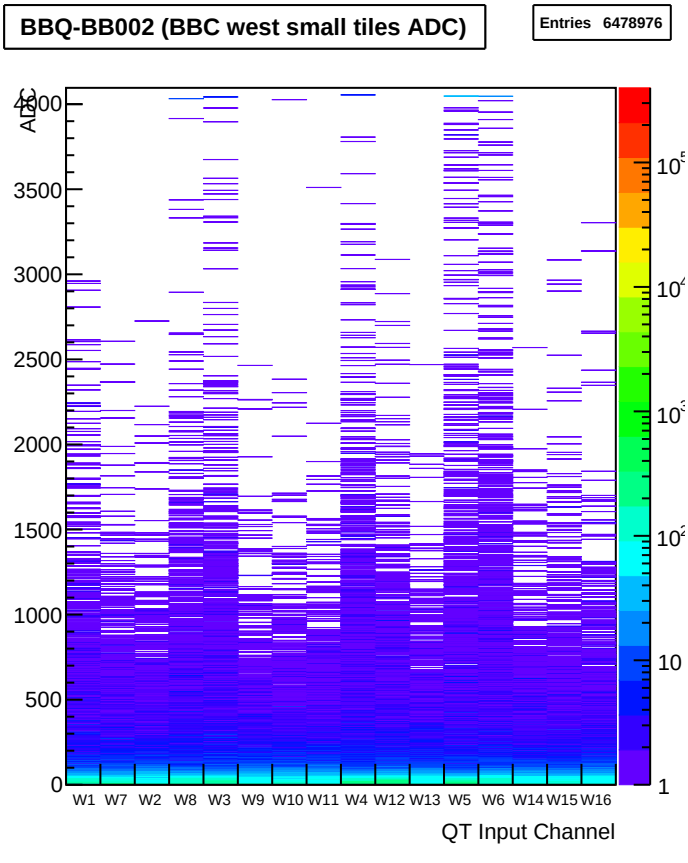

L2-TF201
Entries 0
TOF total mult(Real-Simu)

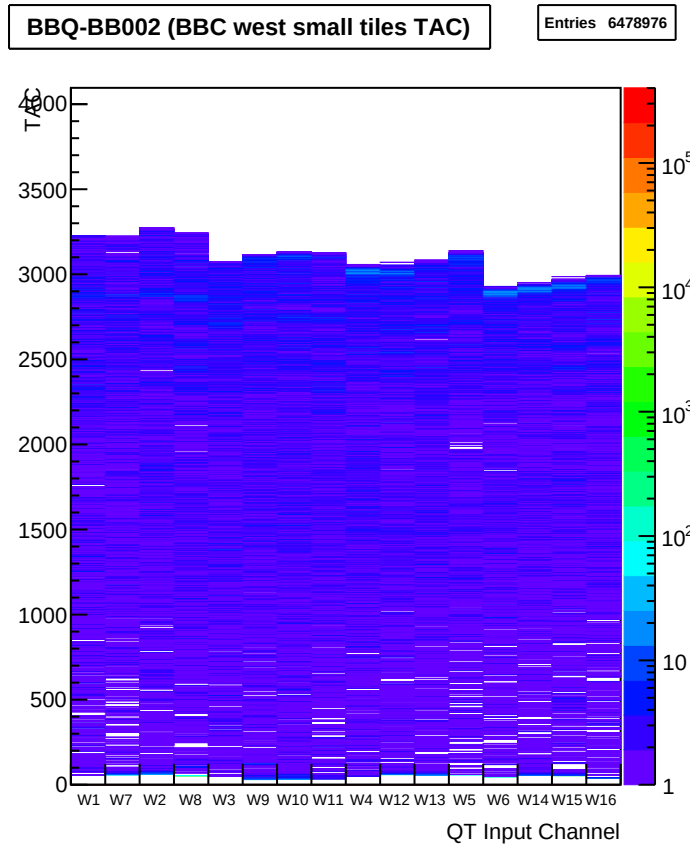

L2-TF201
Entries 2834552
Threshold/UPC bits
352475
351791
347080
350394
353076
345973
398629
52461
53145
57856
54542
51860
58963
6307
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

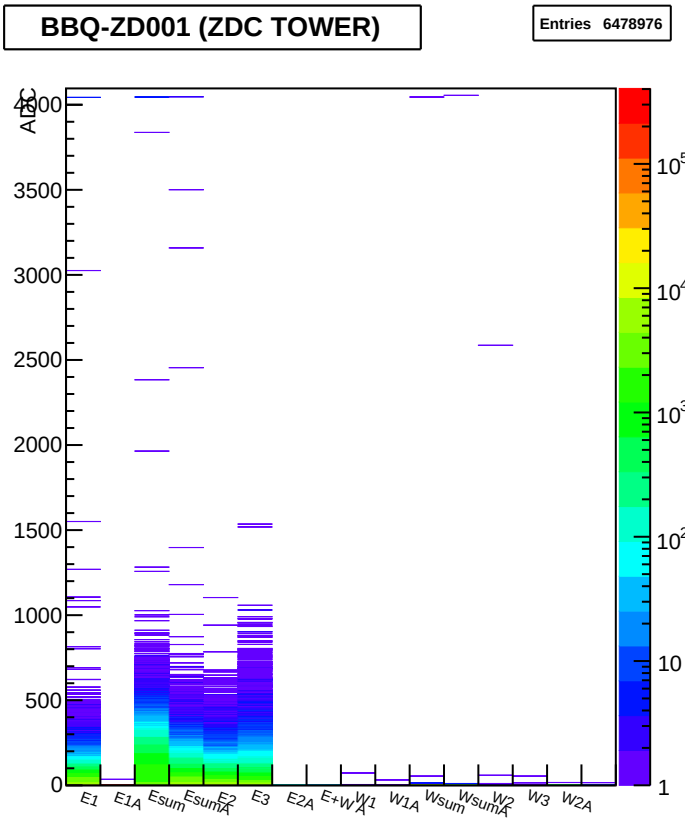

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

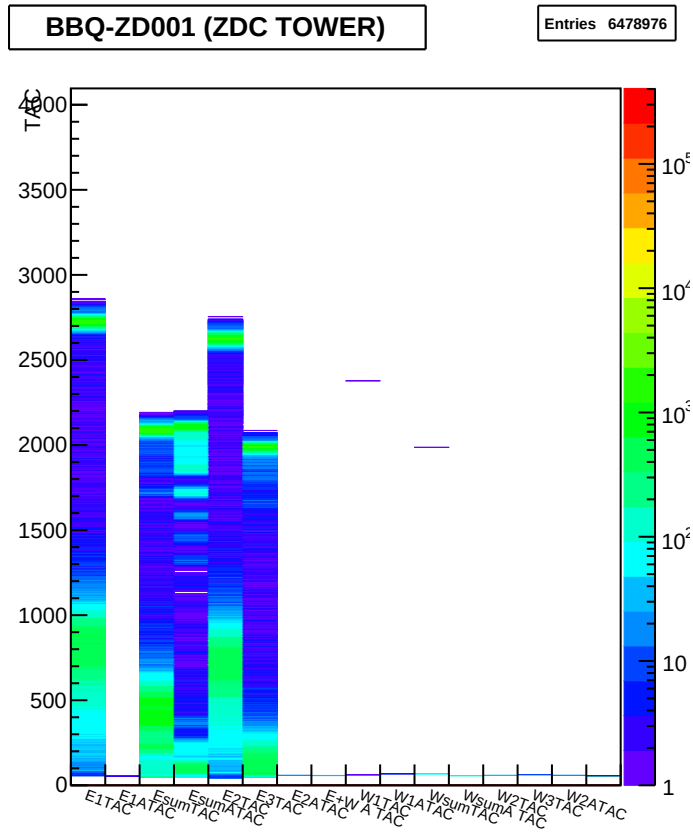

BBQ-BB001 (BBC east small tiles ADC)
Entries 6478976
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

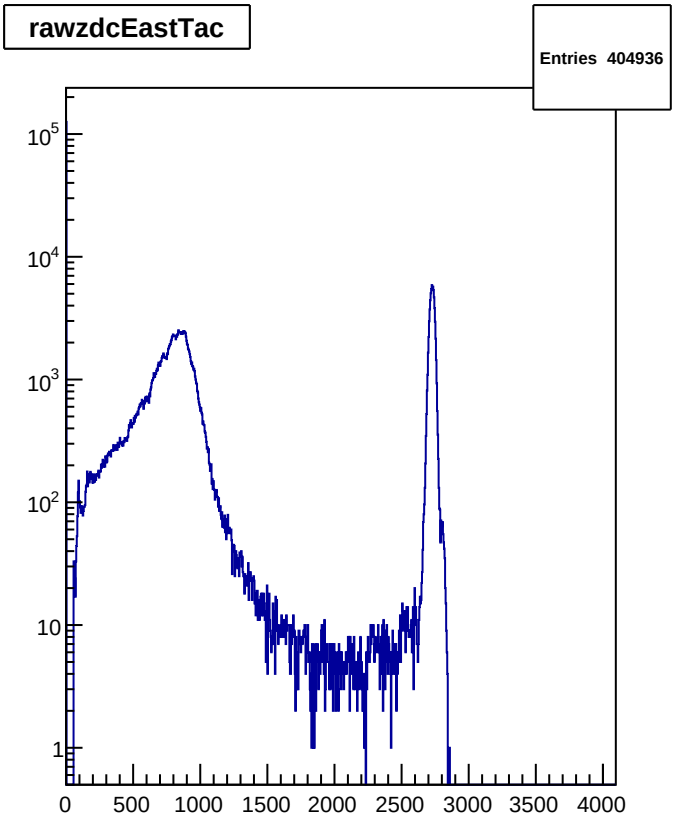

BBQ-BB001 (BBC east small tiles TAC)
Entries 6478976
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

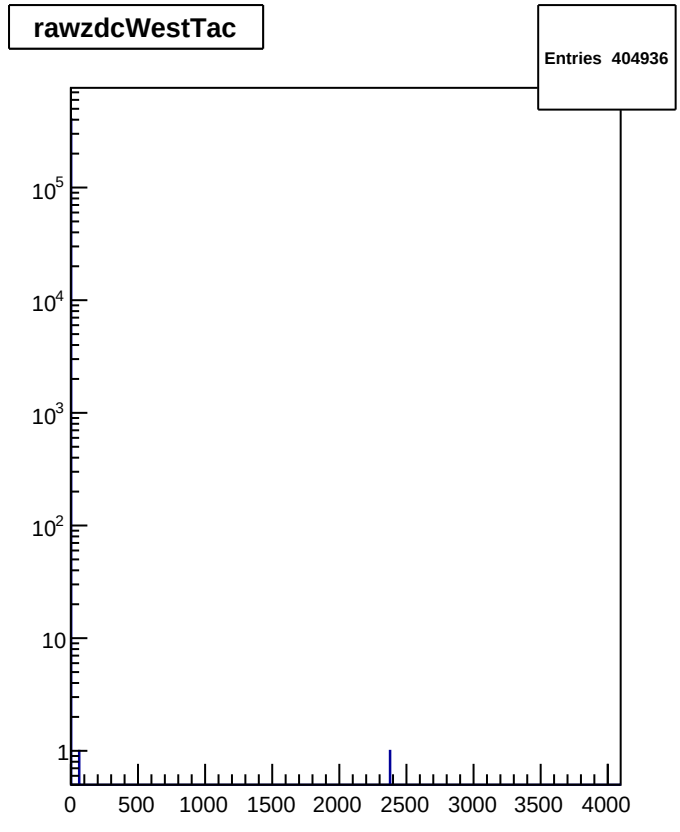

BBQ-BB002 (BBC west small tiles ADC)
Entries 6478976
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

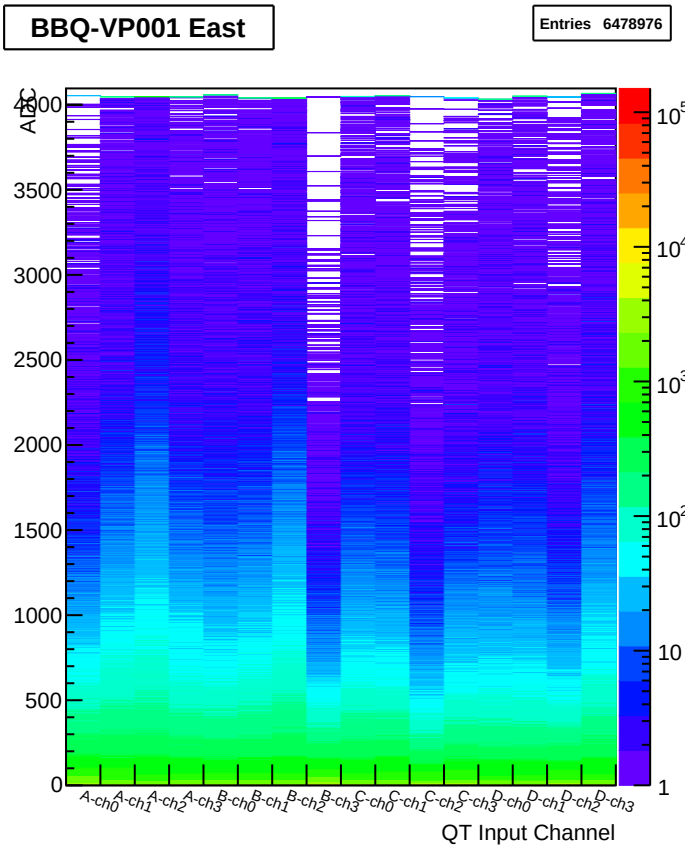

BBQ-BB002 (BBC west small tiles TAC)
Entries 6478976
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

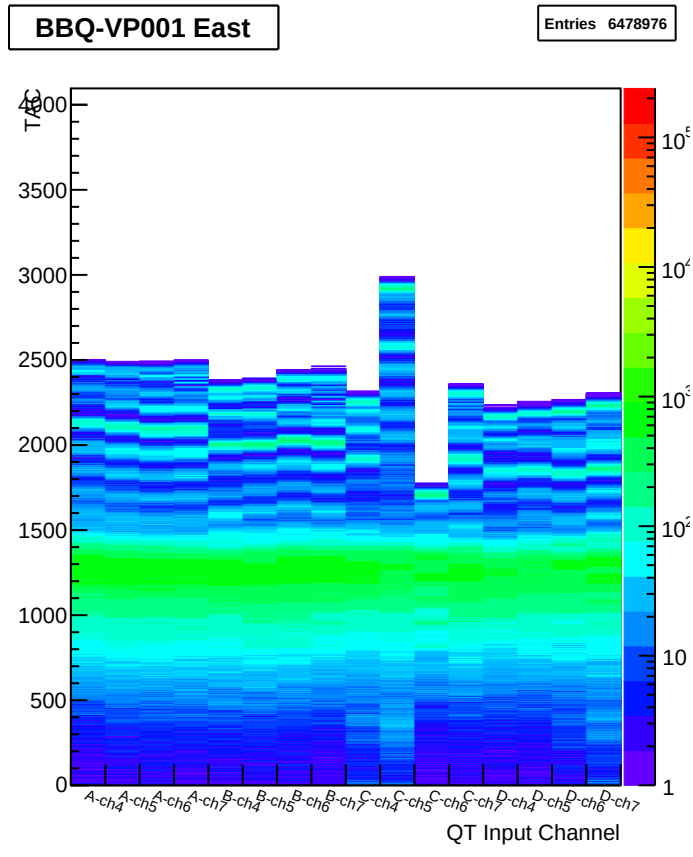

BBQ-ZD001 (ZDC TOWER)
Entries 6478976
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1A
W1A
Wsum
WsumA
W2
W3
W2A

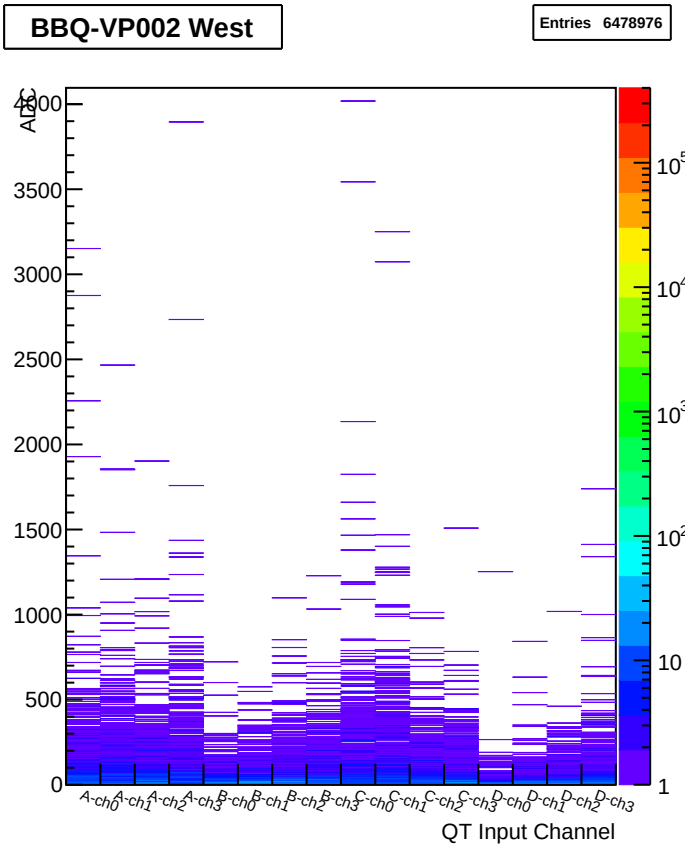

BBQ-ZD001 (ZDC TOWER)
Entries 6478976
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

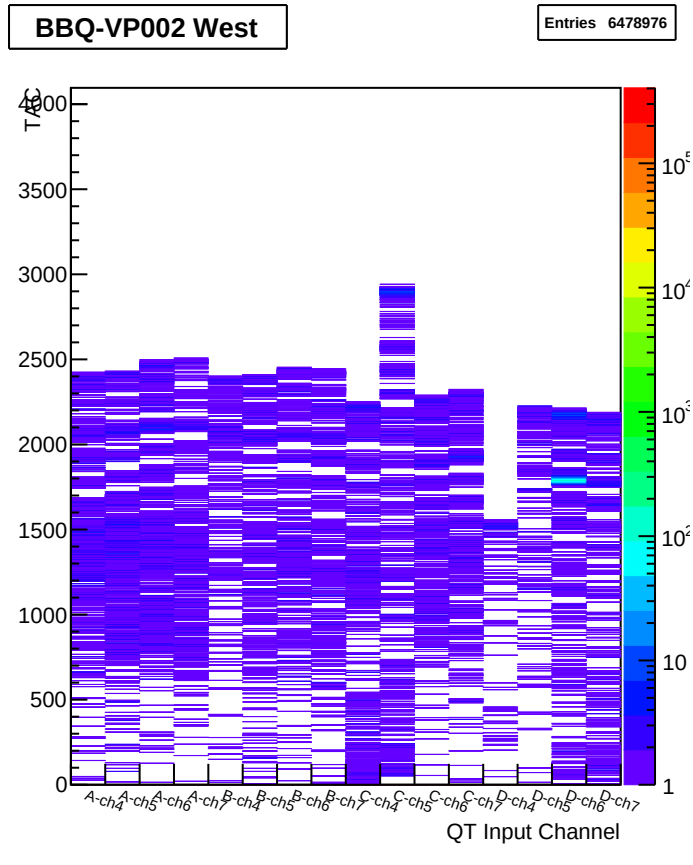

rawzdcEastTac
Entries 404936

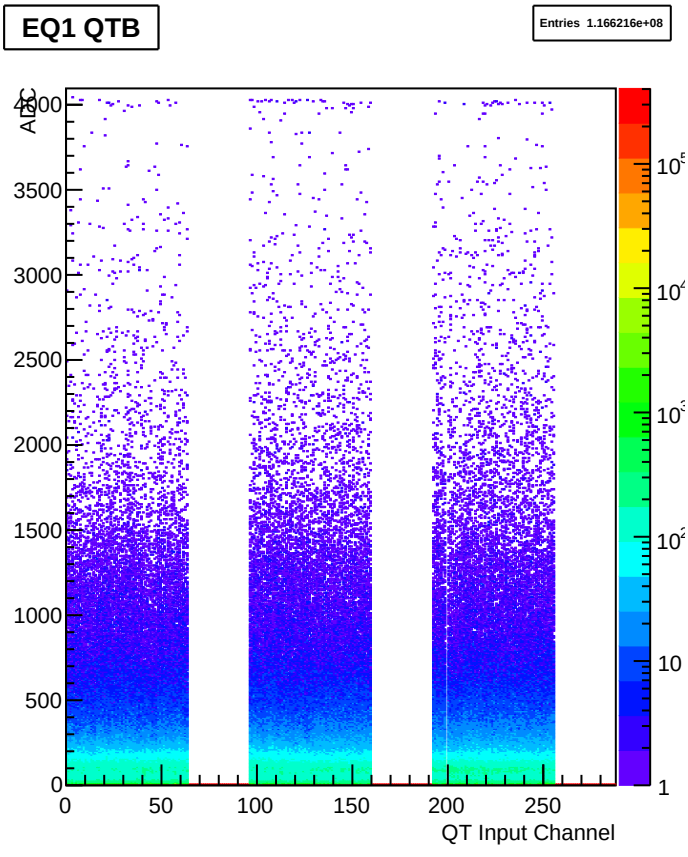

rawzdcWestTac
Entries 404936

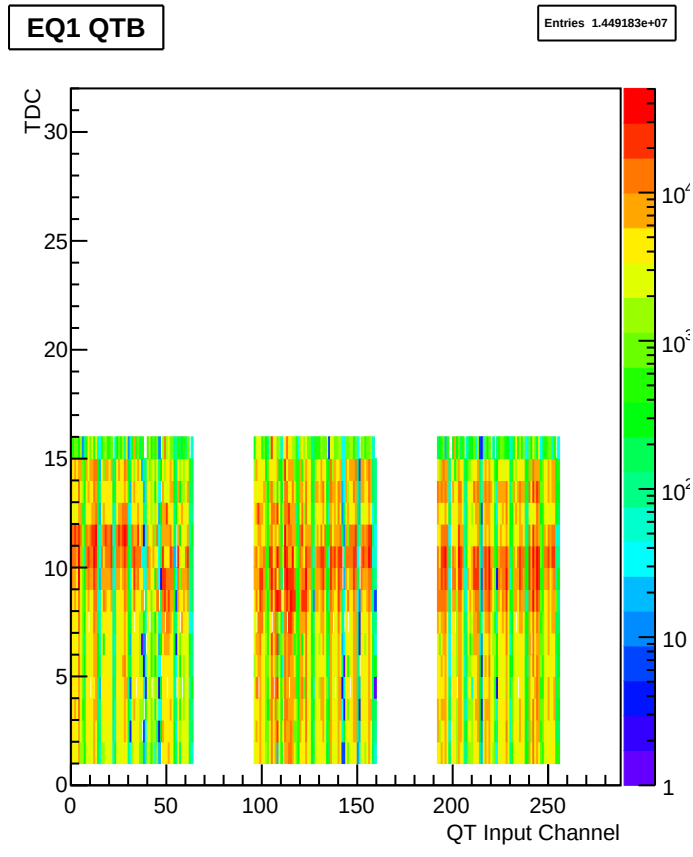

BBQ-VP001 East
Entries 6478976
ADC
QT Input Channel

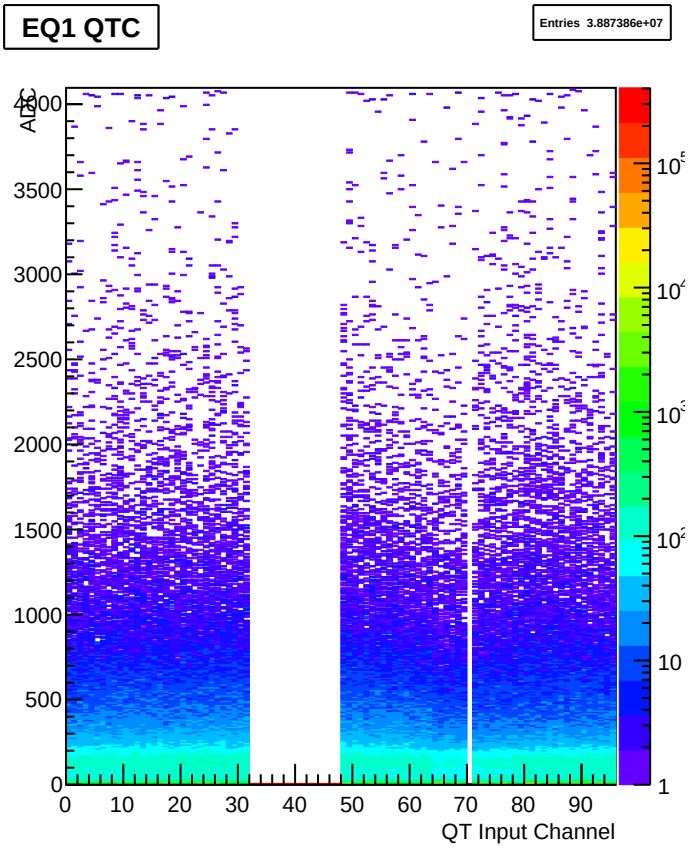

BBQ-VP001 East
Entries 6478976
TADC
QT Input Channel

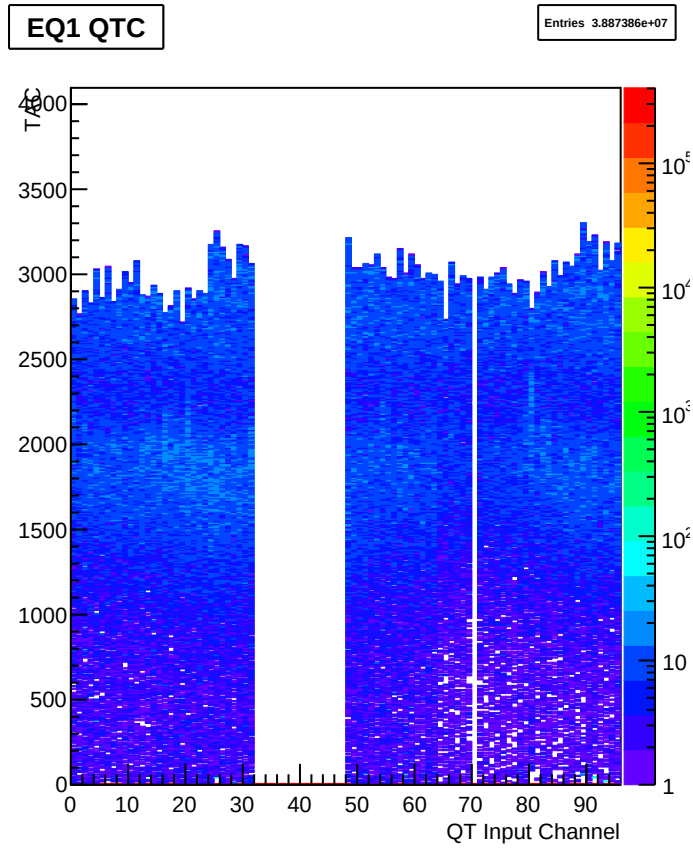

BBQ-VP002 West
Entries 6478976
ADC
QT Input Channel

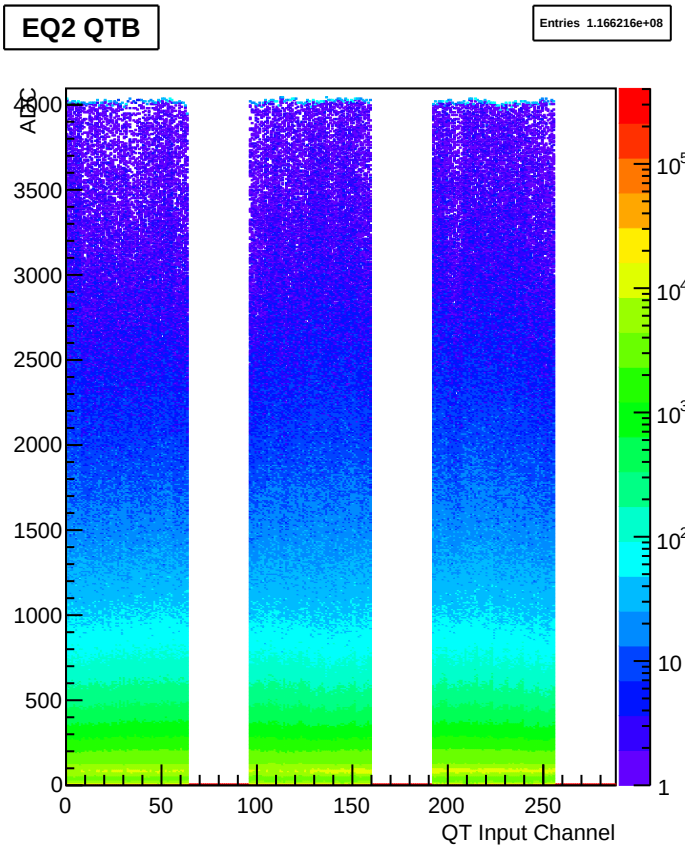

BBQ-VP002 West
Entries 6478976
TADC
QT Input Channel

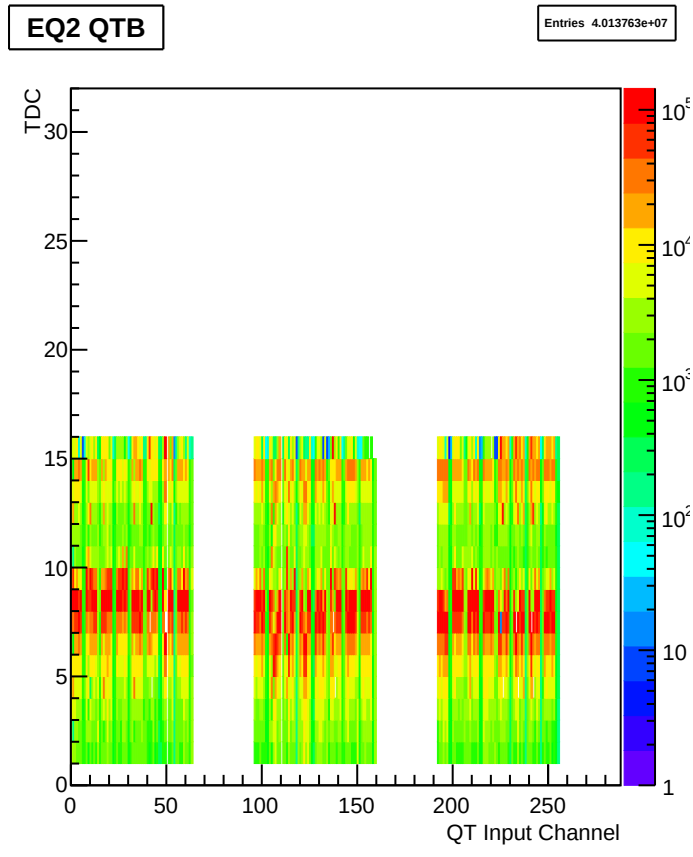

EQ1 QTB
Entries 1.166216e+08
ADC
QT Input Channel

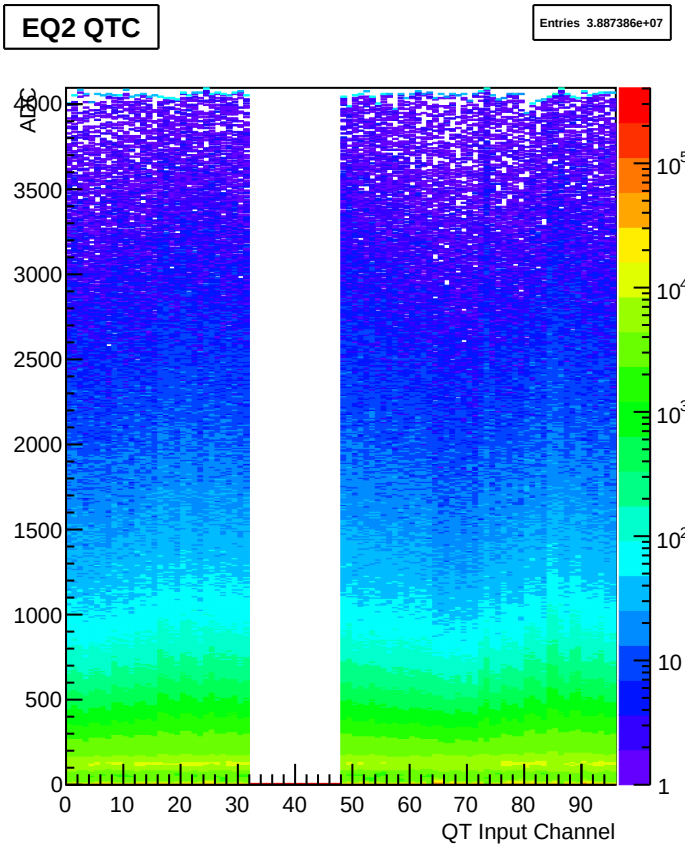

EQ1 QTB
Entries 1.449183e+07
TDC
QT Input Channel

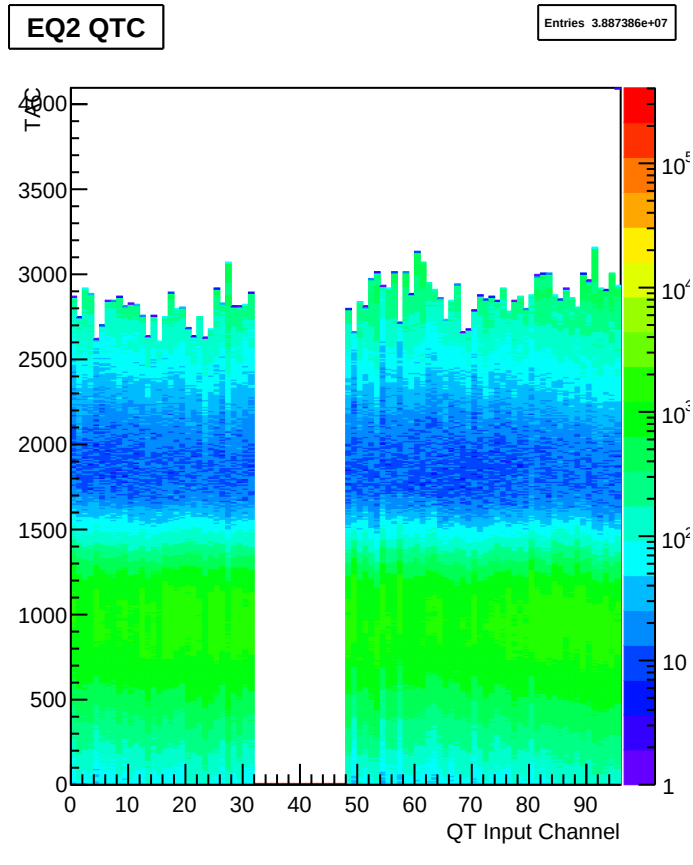

EQ1 QTC
Entries 3.887386e+07
ADC
QT Input Channel

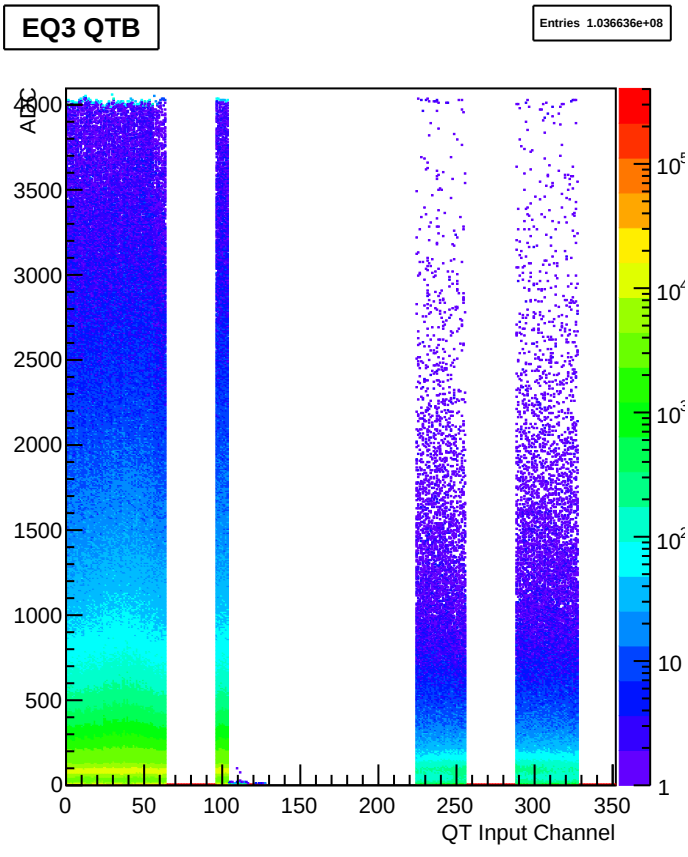

EQ1 QTC
Entries 3.887386e+07
TADC
QT Input Channel

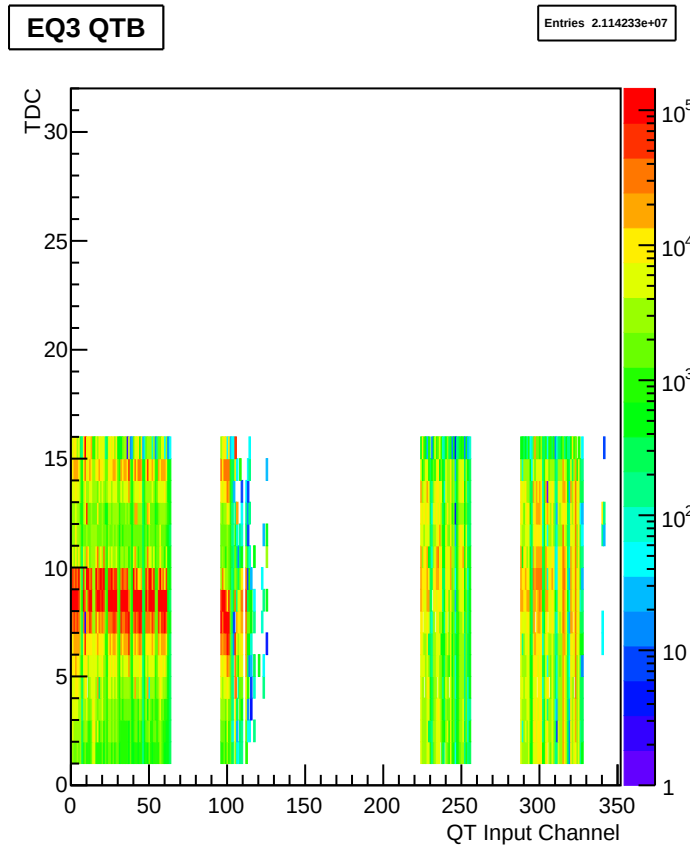

EQ2 QTB
Entries 1.166216e+08
ADC
QT Input Channel

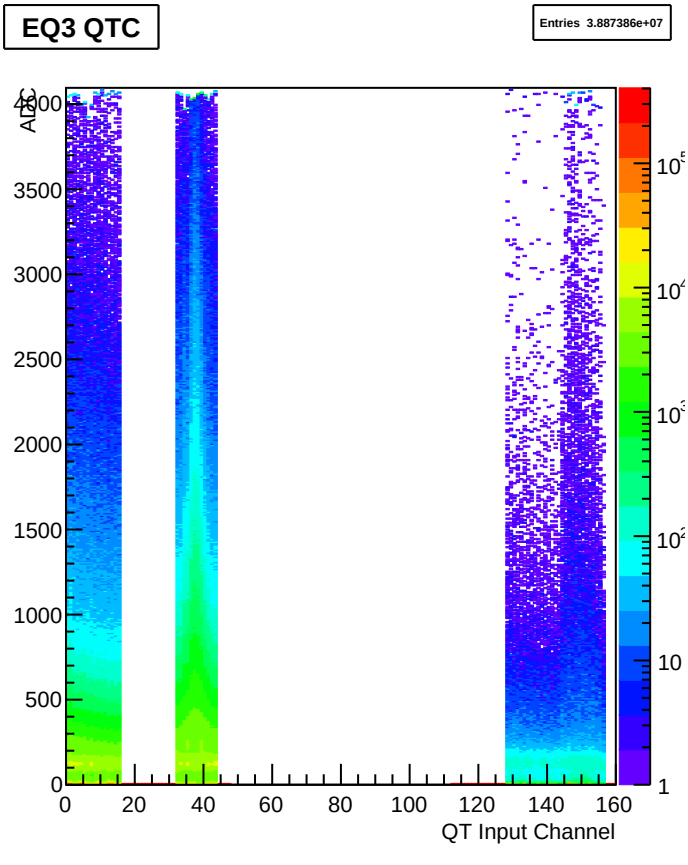

EQ2 QTB
Entries 4.013763e+07
TDC
QT Input Channel

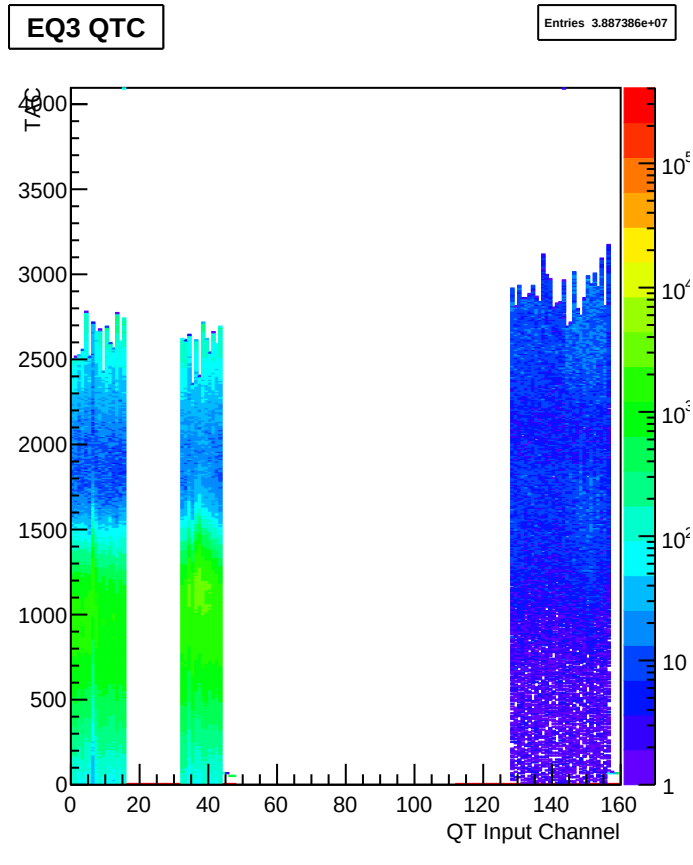

EQ2 QTC
Entries 3.887386e+07
ADC
QT Input Channel

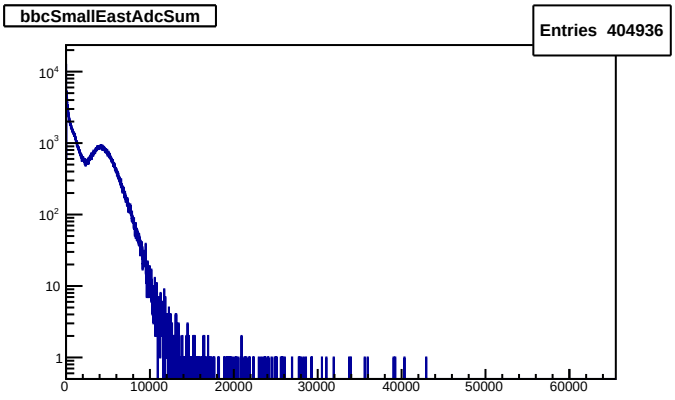

EQ2 QTC
Entries 3.887386e+07
TADC
QT Input Channel

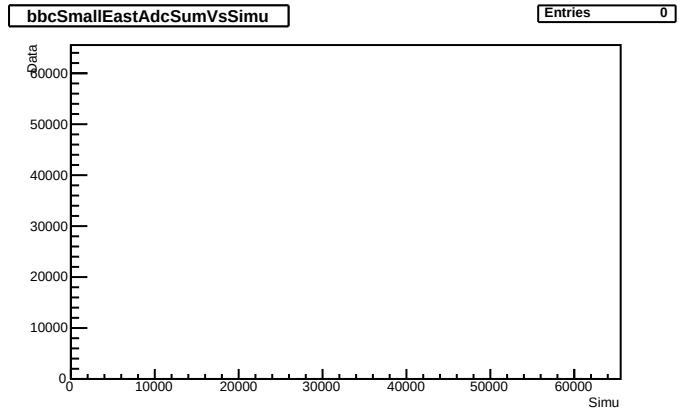

EQ3 QTB
Entries 1.036636e+08
ADC
QT Input Channel

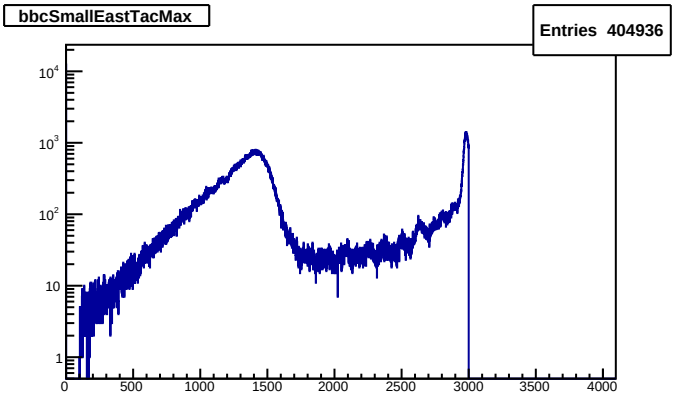

EQ3 QTB
Entries 2.114233e+07
TDC
QT Input Channel

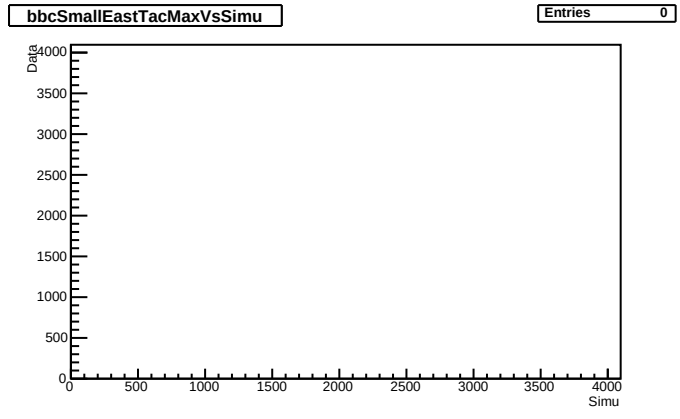

EQ3 QTC
Entries 3.887386e+07
ADC
QT Input Channel

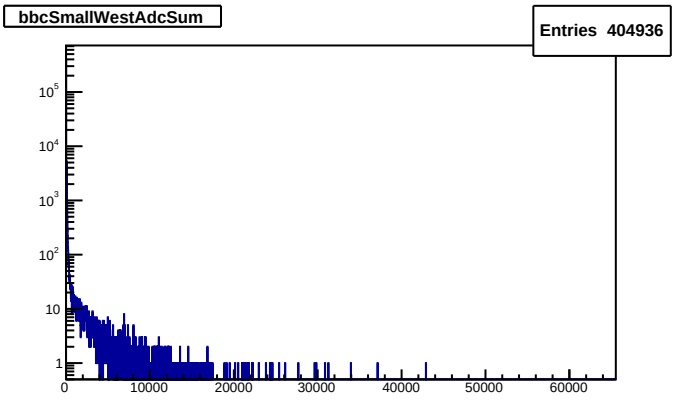

EQ3 QTC
Entries 3.887386e+07
TADC
QT Input Channel

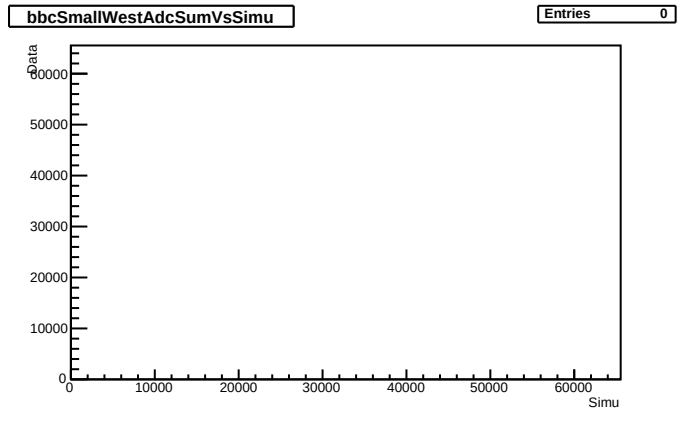

bbcSmallEastAdcSum
Entries 404936


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 404936


bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 404936


bbcSmallWestAdcSumVsSimu
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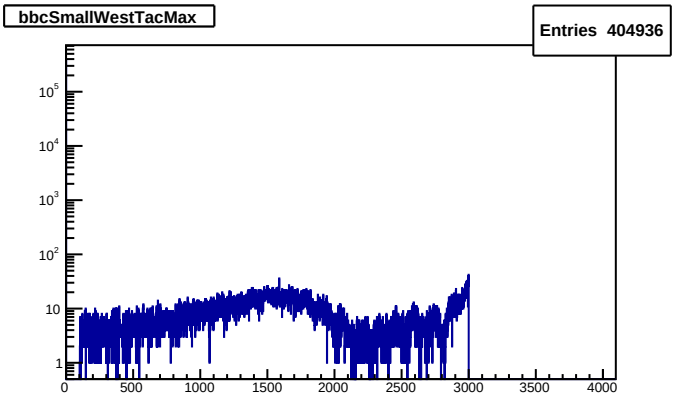
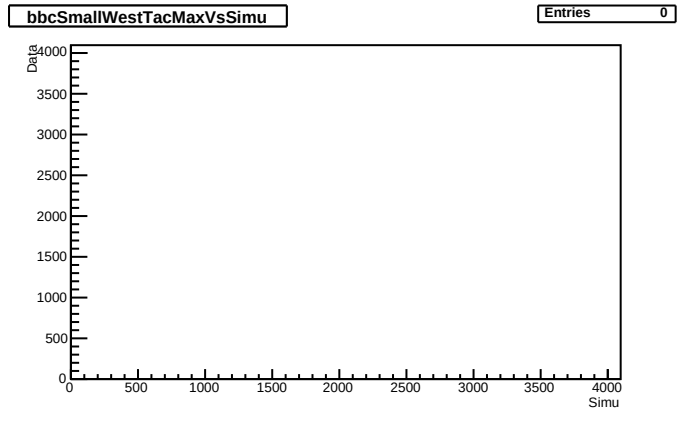
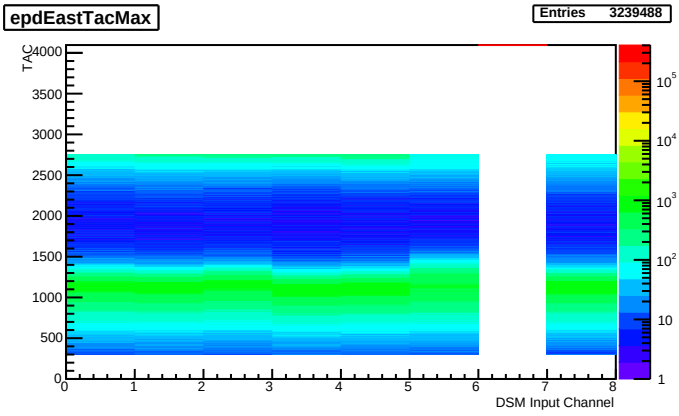
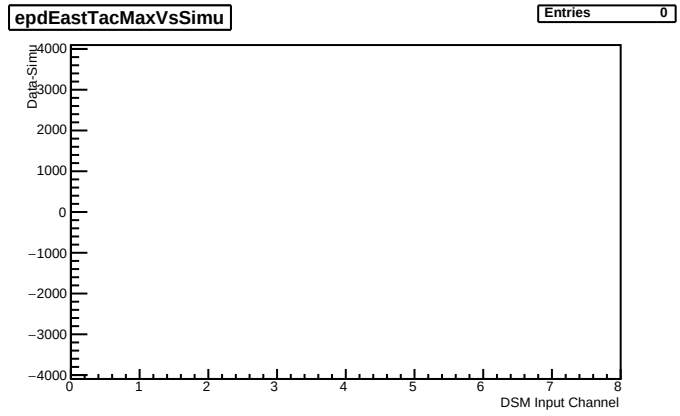
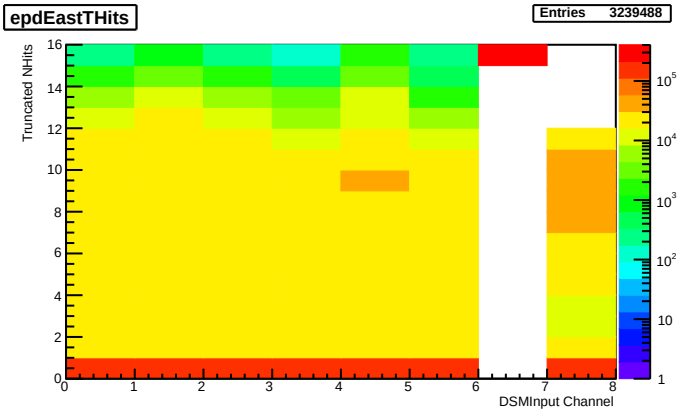
Simu

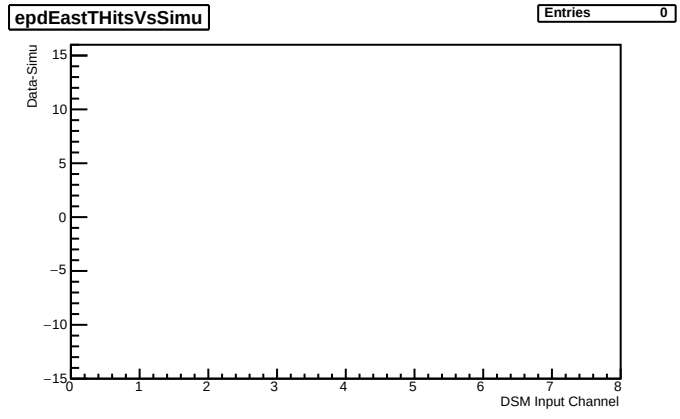

bbcSmallWestTacMax
Entries 404936


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 3239488
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3239488
Truncated NHits
DSMInput Channel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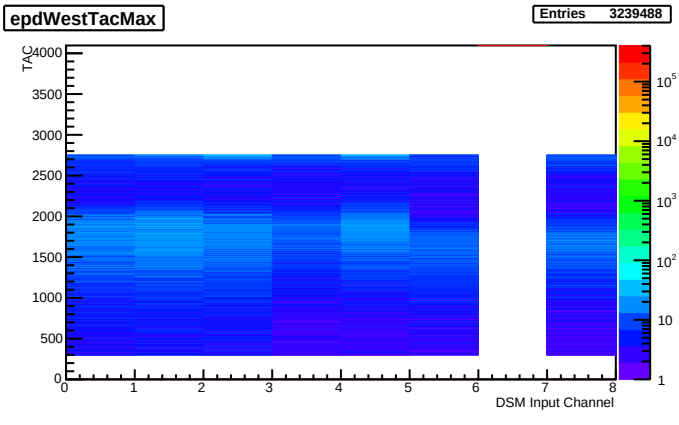
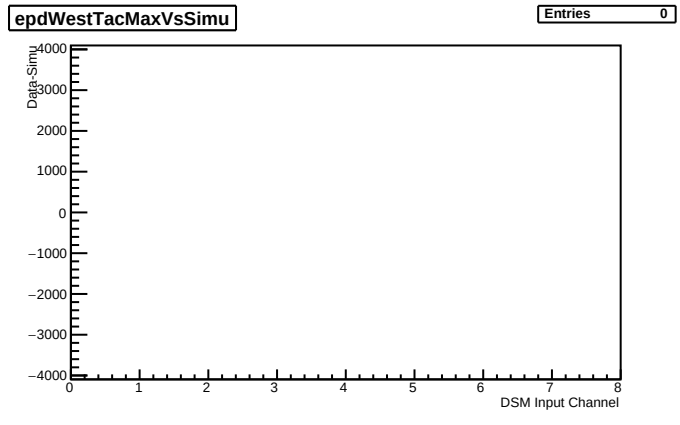
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 3239488
TAC
DSM Input Channel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Entries 0
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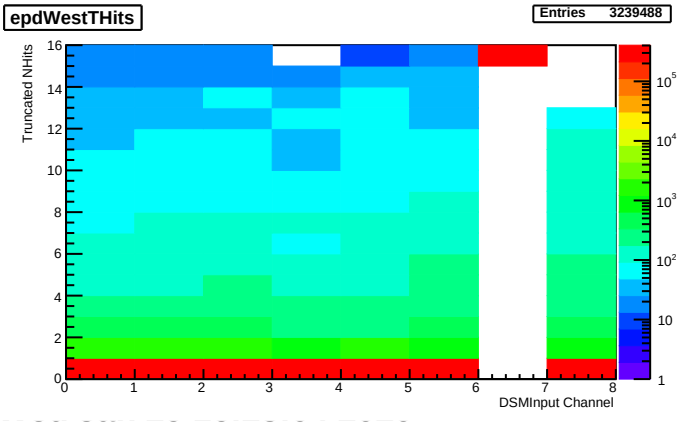
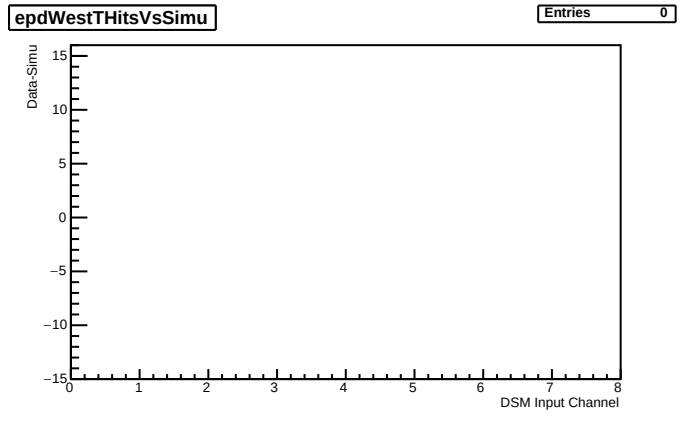
DSM Input Channel


epdWestTHits
Entries 3239488
Truncated NHits
DSMInput Channel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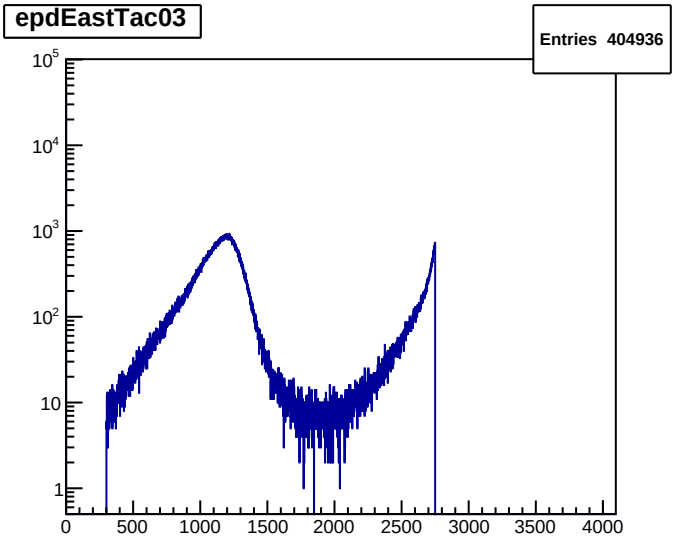
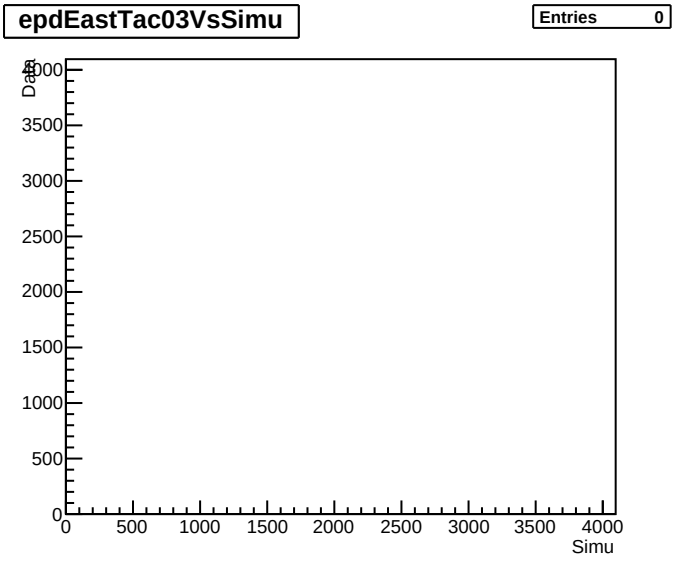
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 404936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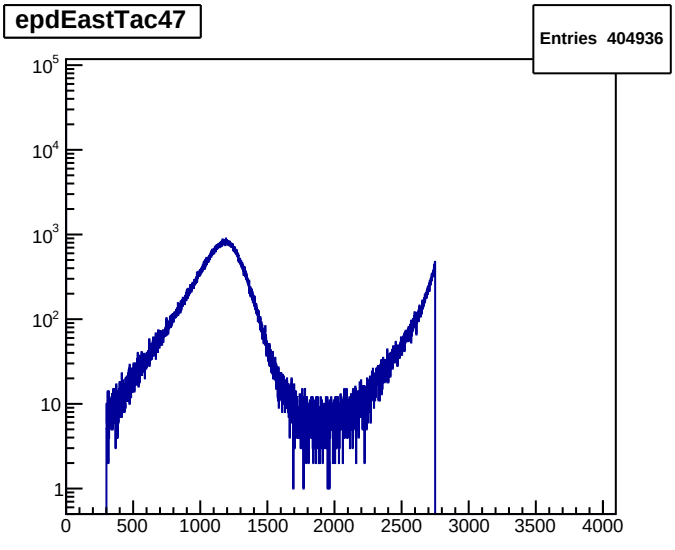
Entries 0
Data
Simu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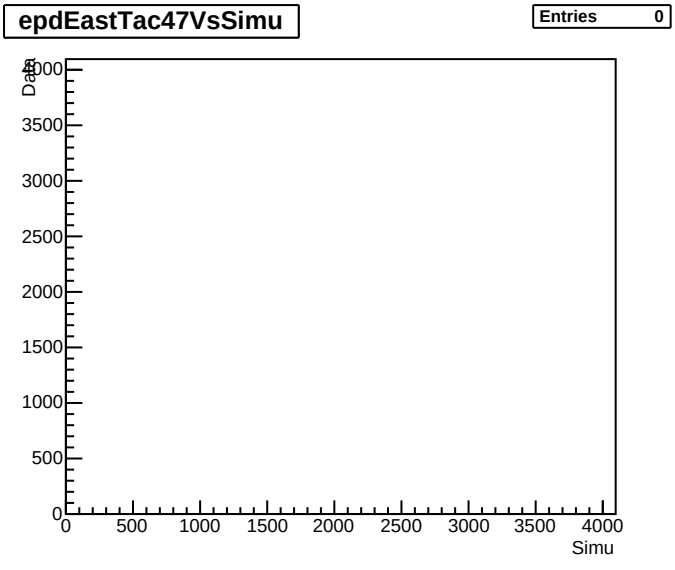
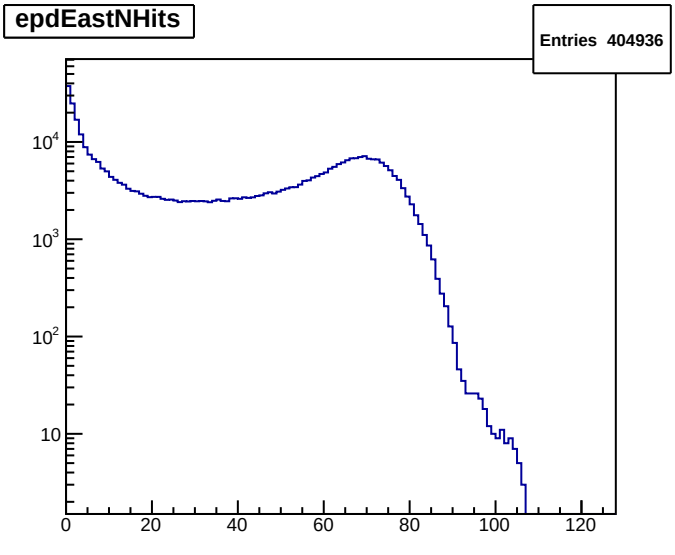
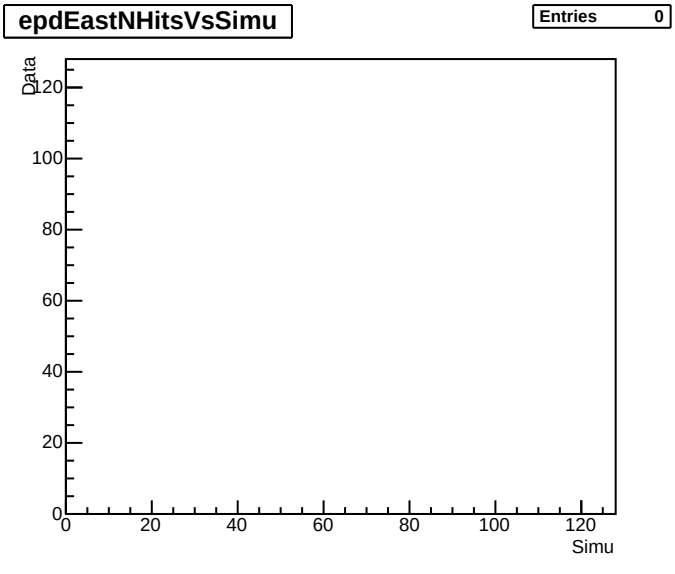
Entries 404936


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 404936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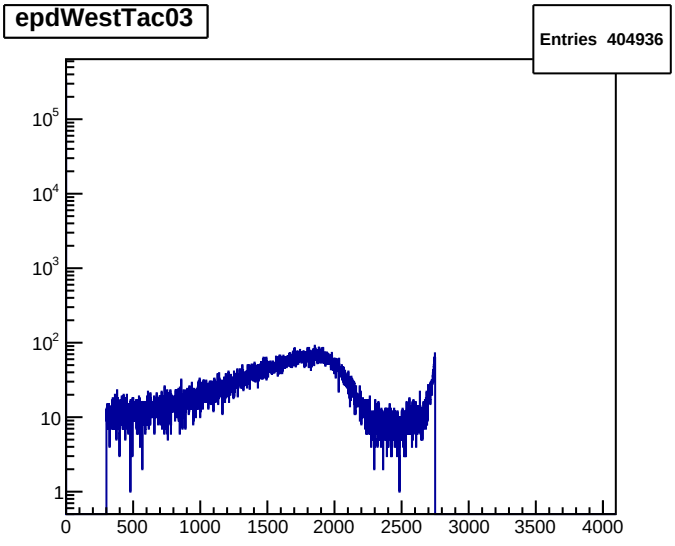
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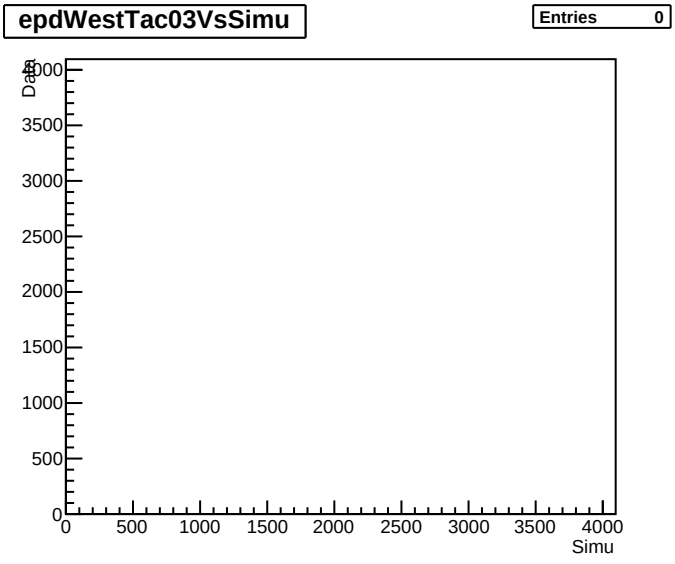
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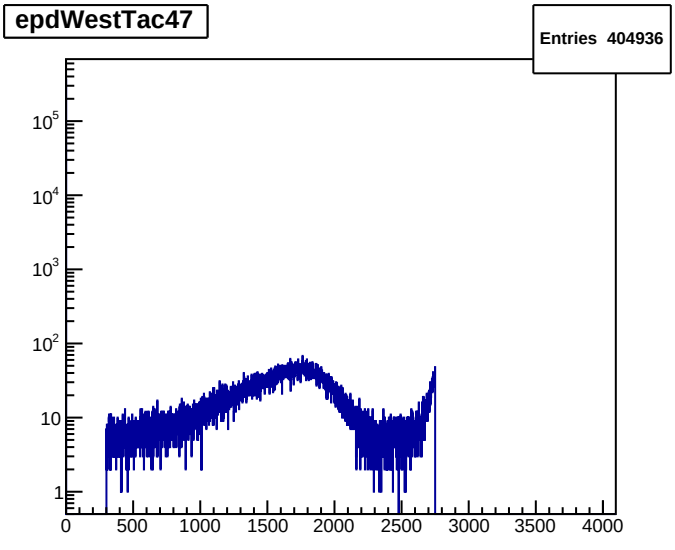
Data
Simu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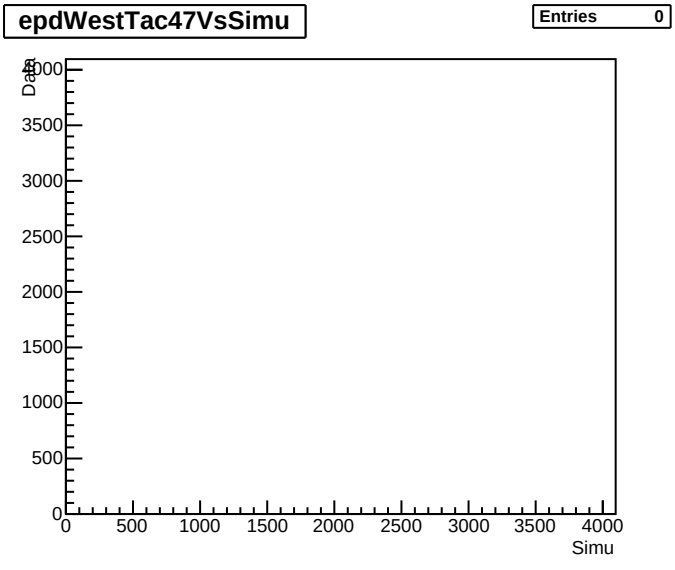
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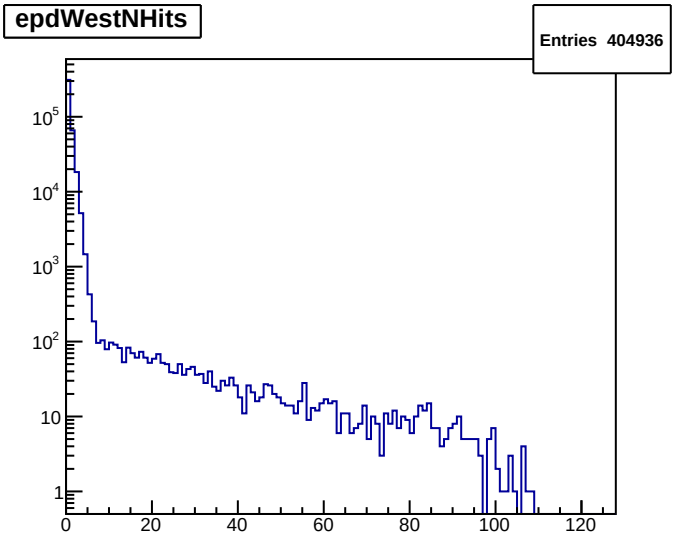
Entries 0
Data
Simu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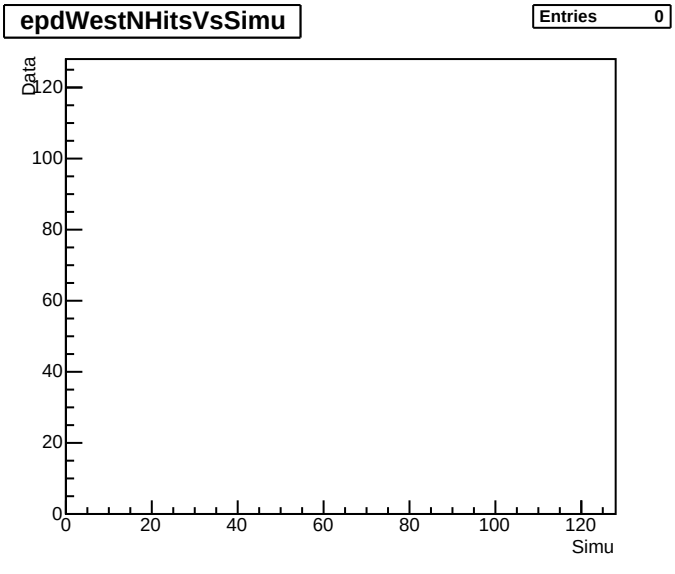
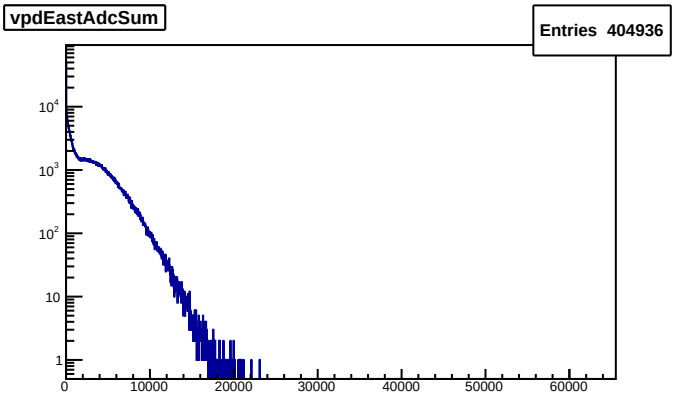
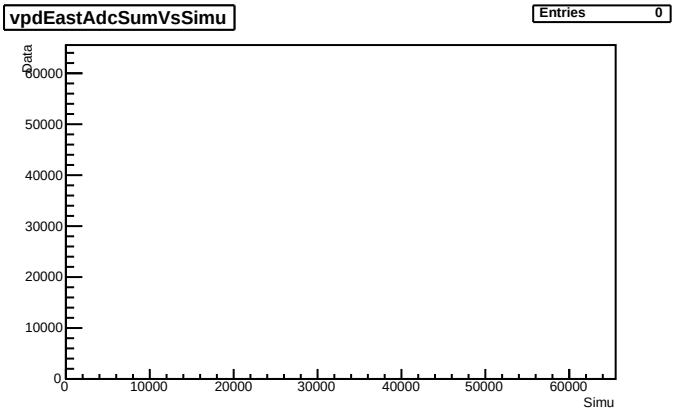
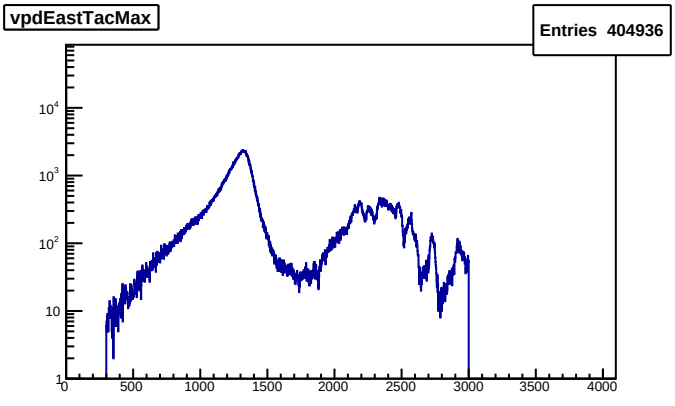
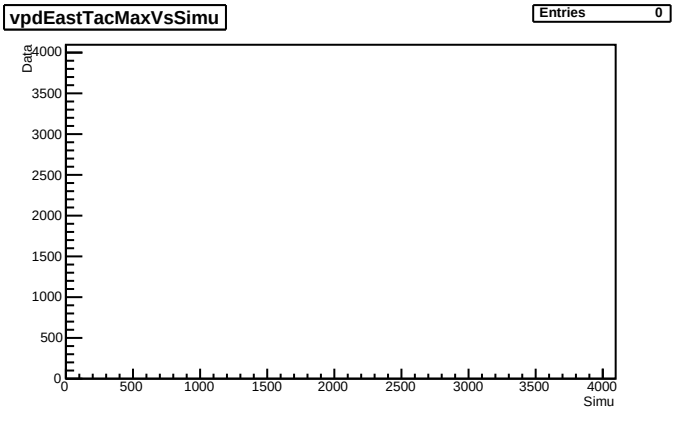
Entries 404936

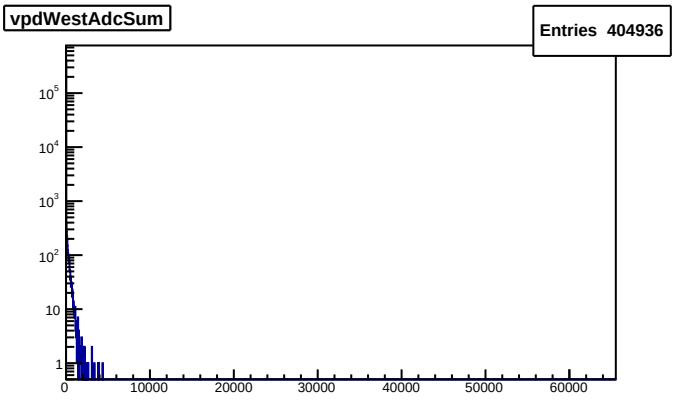

epdWestNHitsVsSimu
Entries 0
Data
Simu

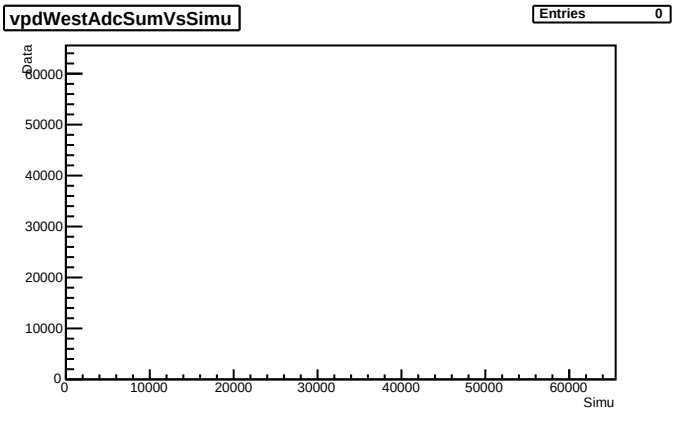

vpdEastAdcSum
Entries 404936


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries 404936


vpdEastTacMaxVsSimu
Entries 0
Data
Simu


vpdWestAdcSum
Entries 404936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Entries 0
Data
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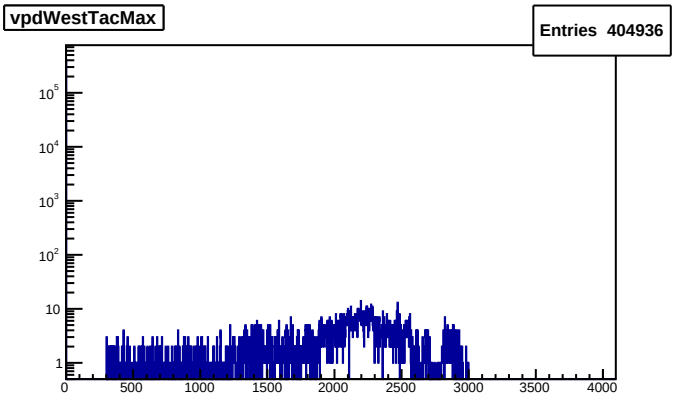
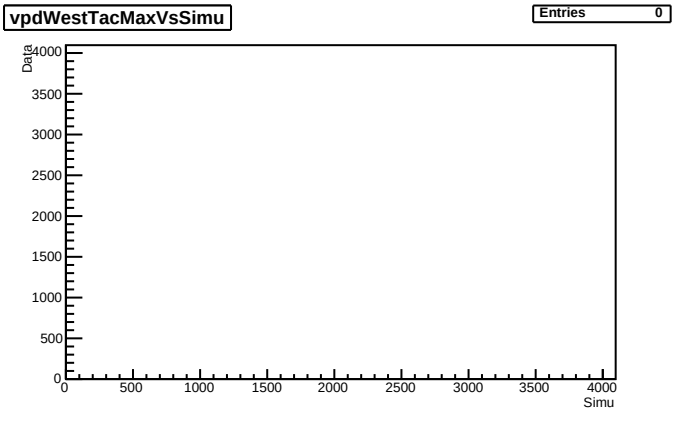
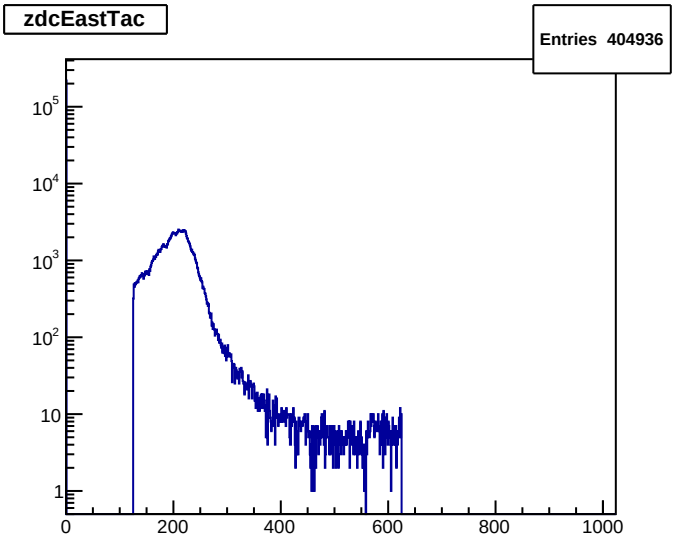
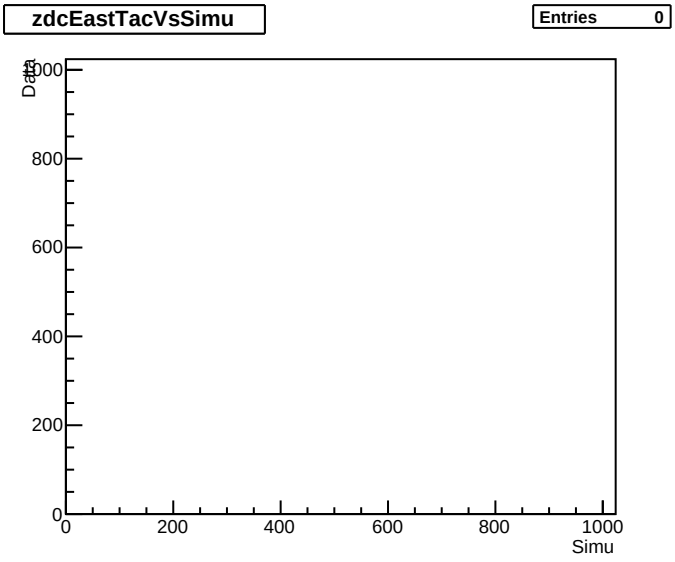
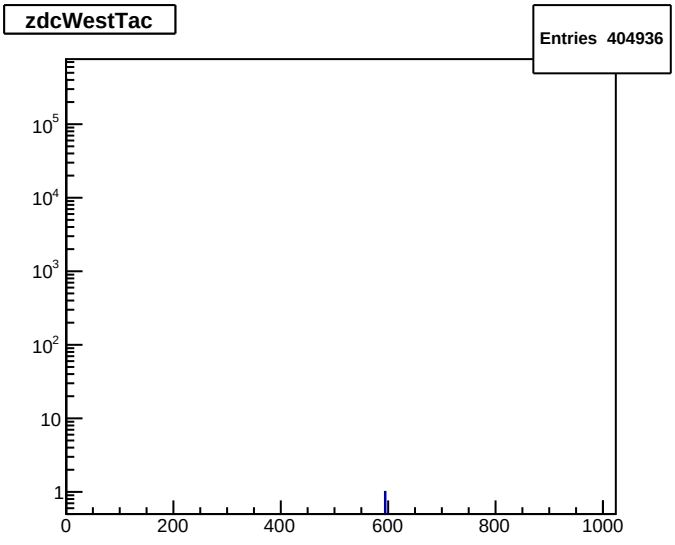
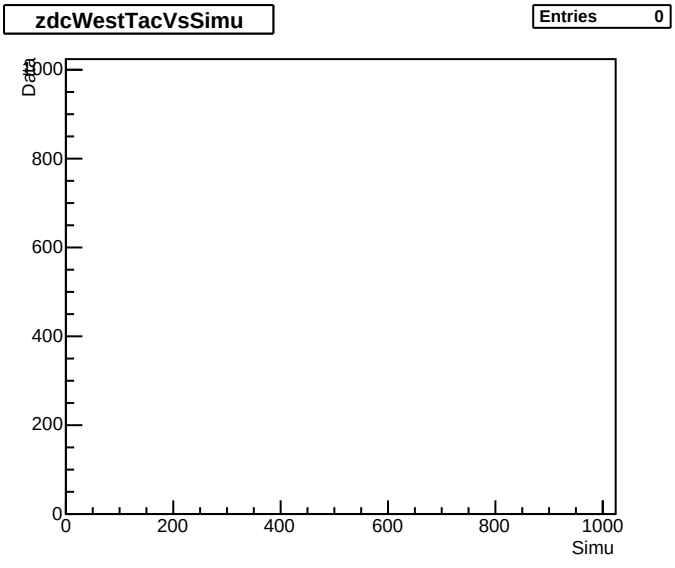

vpdWestTacMax
Entries 404936

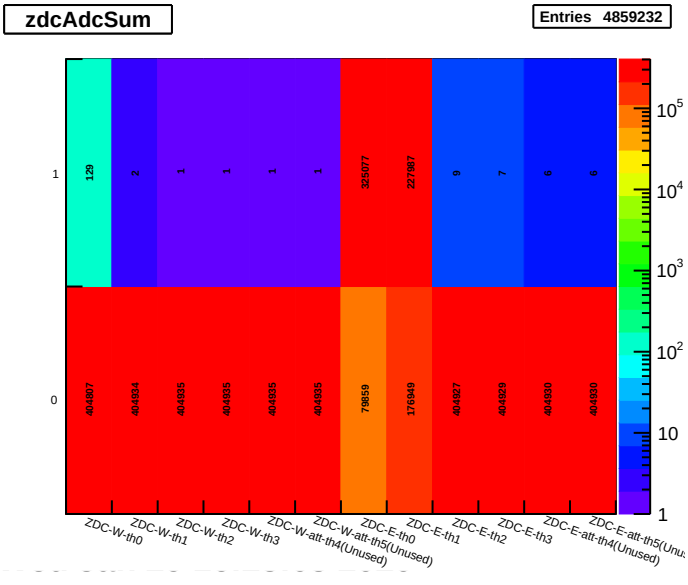

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

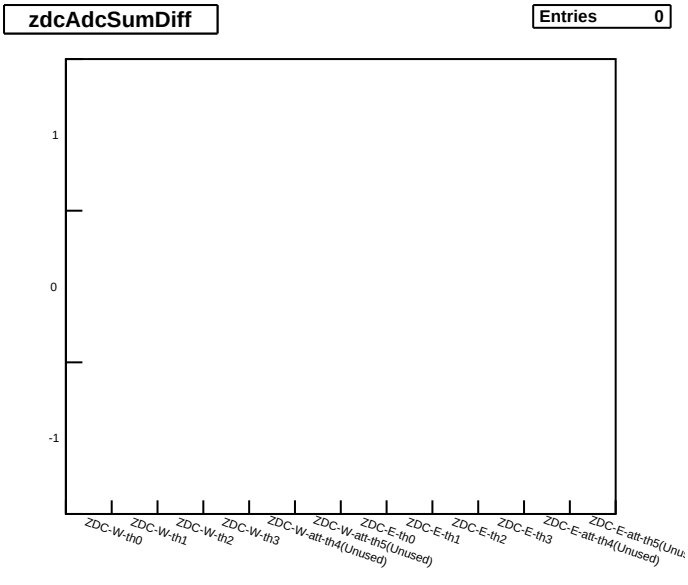

zdcEastTac
Entries 404936

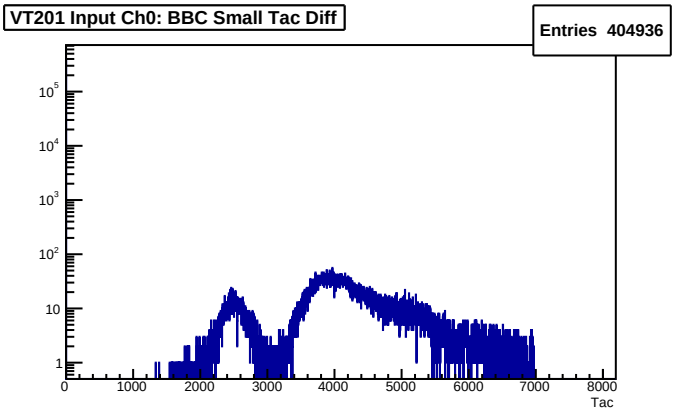

zdcEastTacVsSimu
Entries 0
Data
Simu

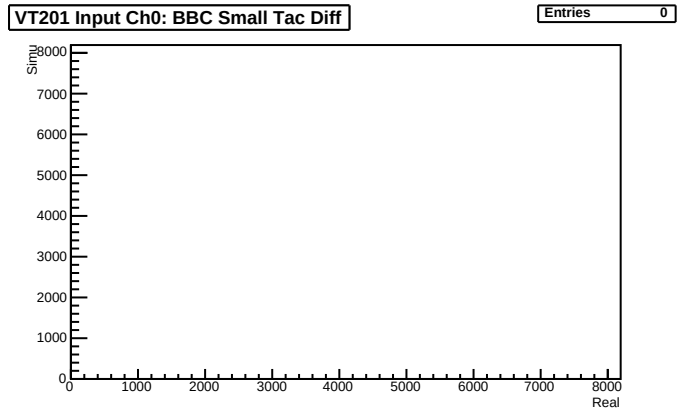

zdcWestTac
Entries 404936

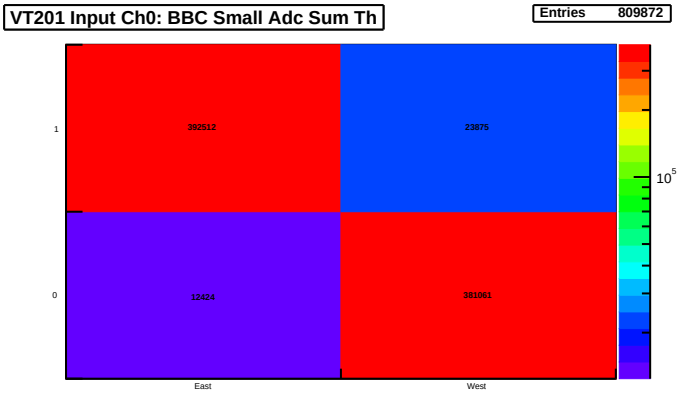

zdcWestTacVsSimu
Entries 0
Data
Simu

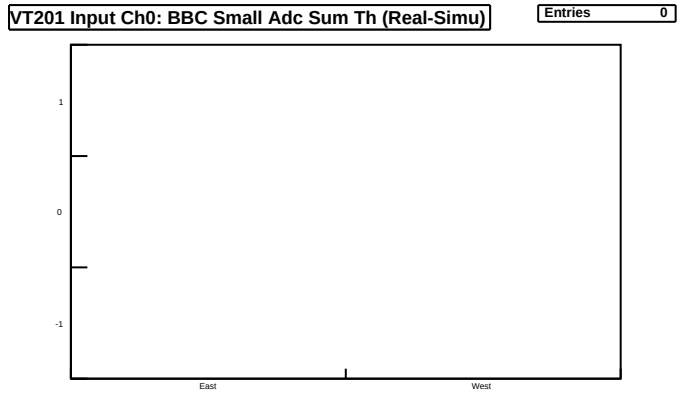

zdcAdcSum
Entries 4859232
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

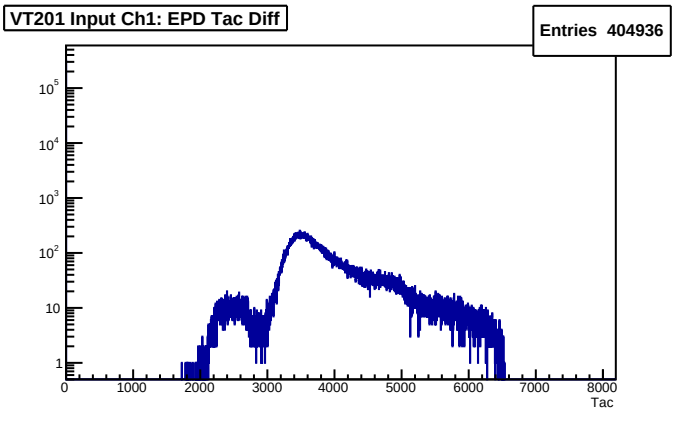

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

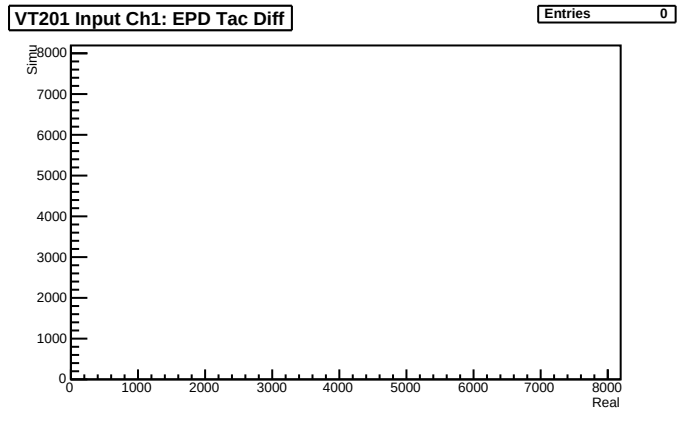

VT201 Input Ch0: BBC Small Tac Diff
Entries 404936
Tac

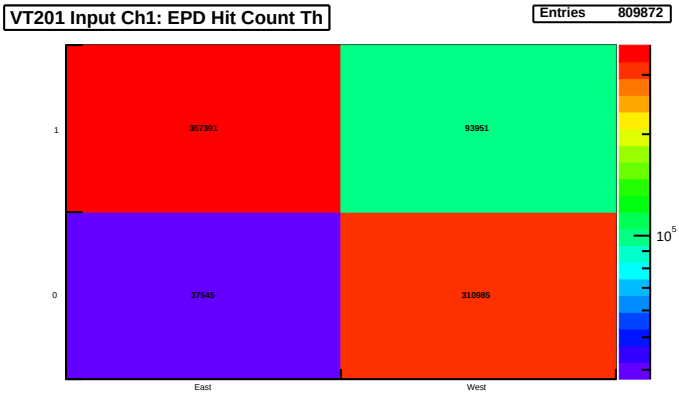

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

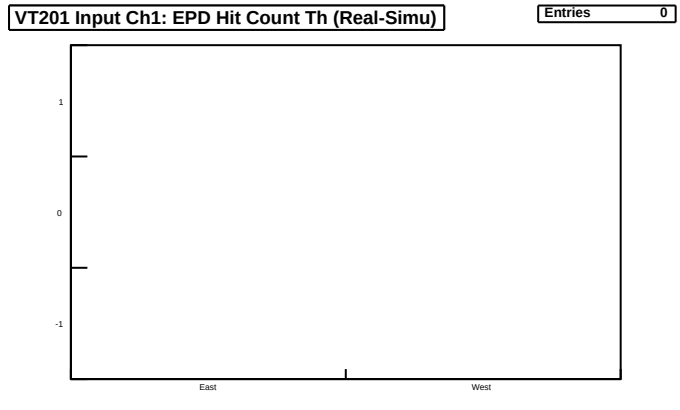

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 809872
392512
23875
12424
381061
East
West

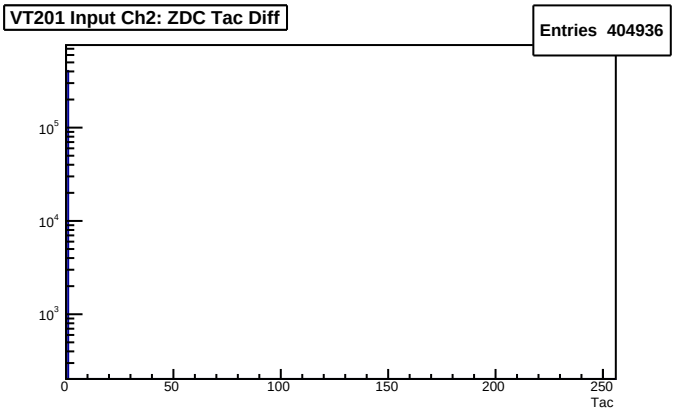

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

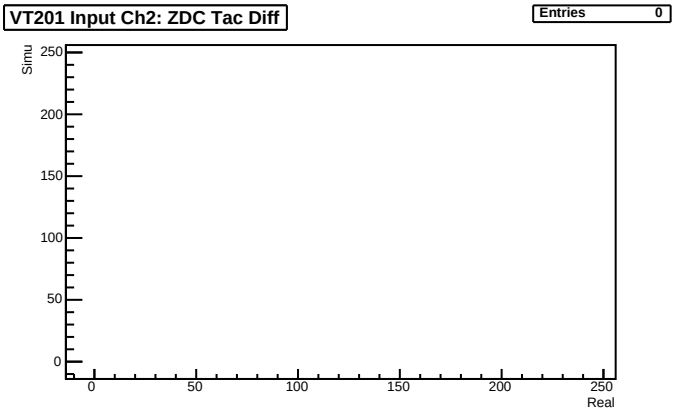

VT201 Input Ch1: EPD Tac Diff
Entries 404936
Tac

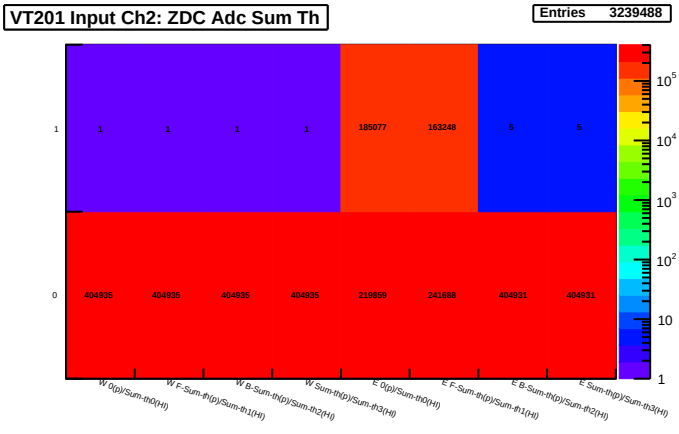

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

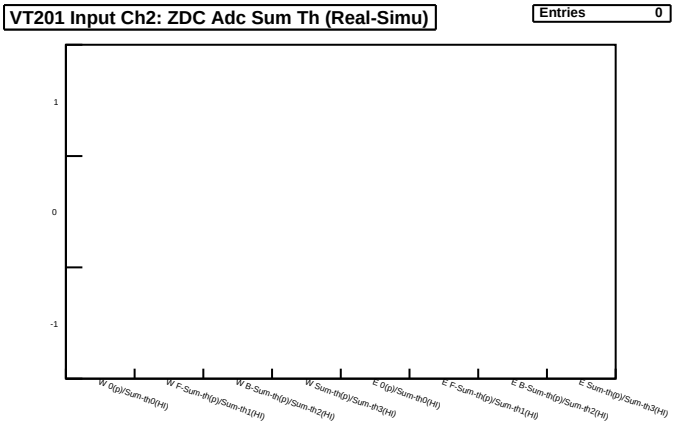

VT201 Input Ch1: EPD Hit Count Th
Entries 809872
367391
93951
37545
310985
East
West

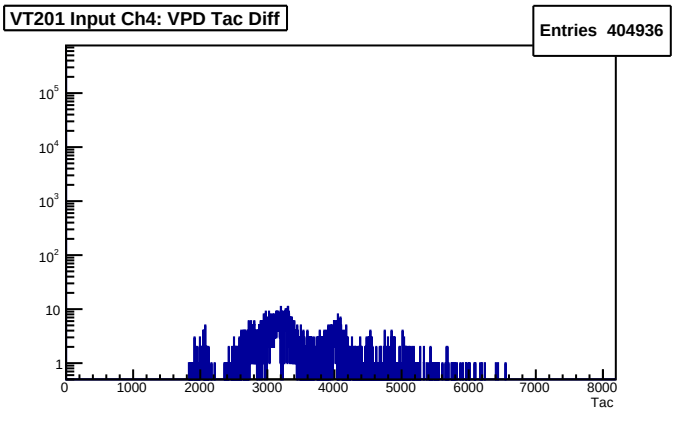

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

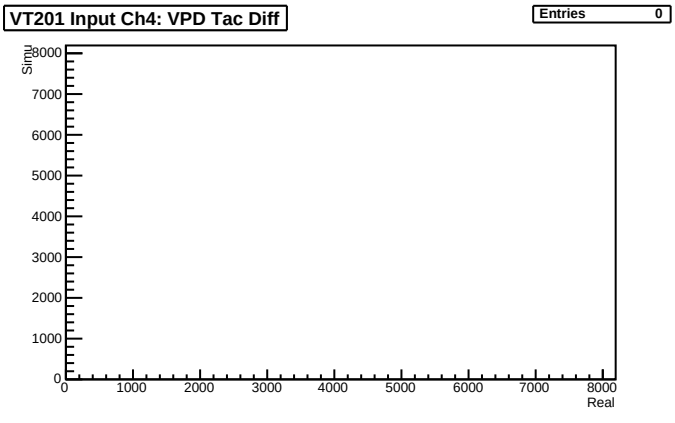

VT201 Input Ch2: ZDC Tac Diff
Entries 404936
Tac

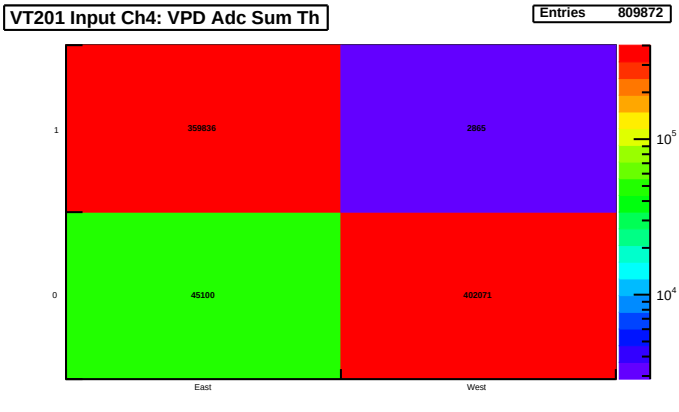

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

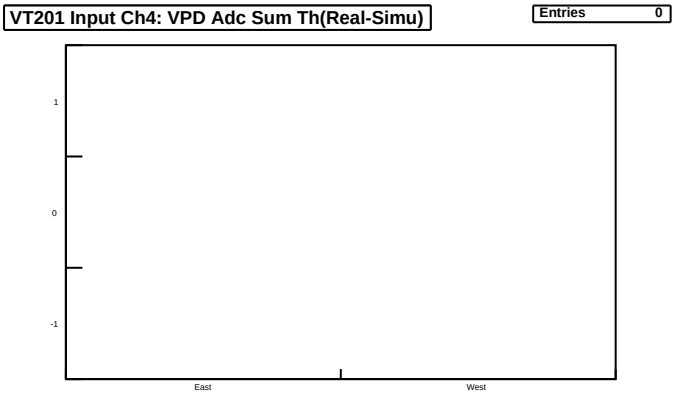

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3239488
1 1 1 1 185077 163248 5 5
404935 404935 404935 404935 219859 241688 404931 404931
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

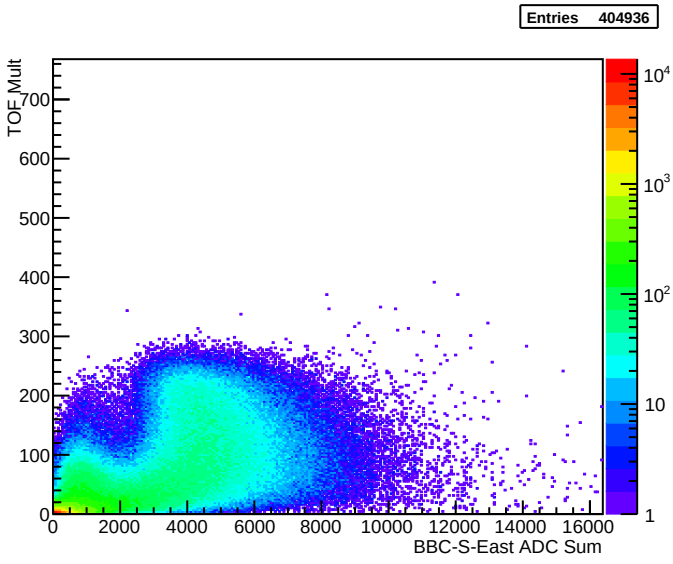

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

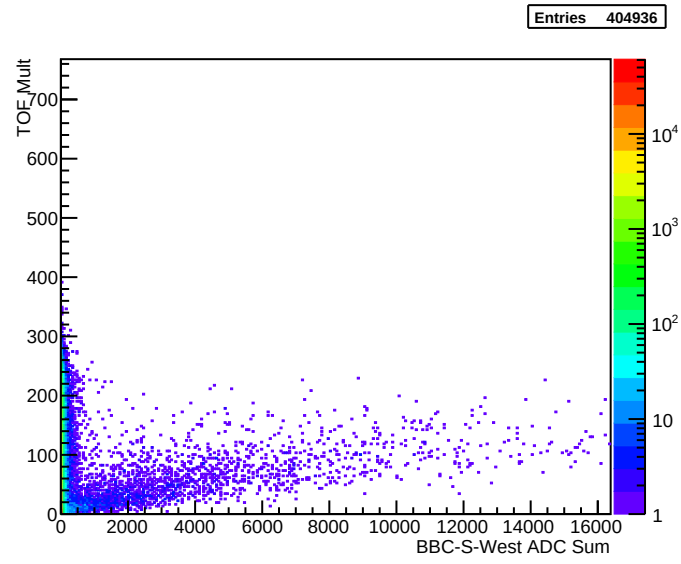

VT201 Input Ch4: VPD Tac Diff
Entries 404936
Tac

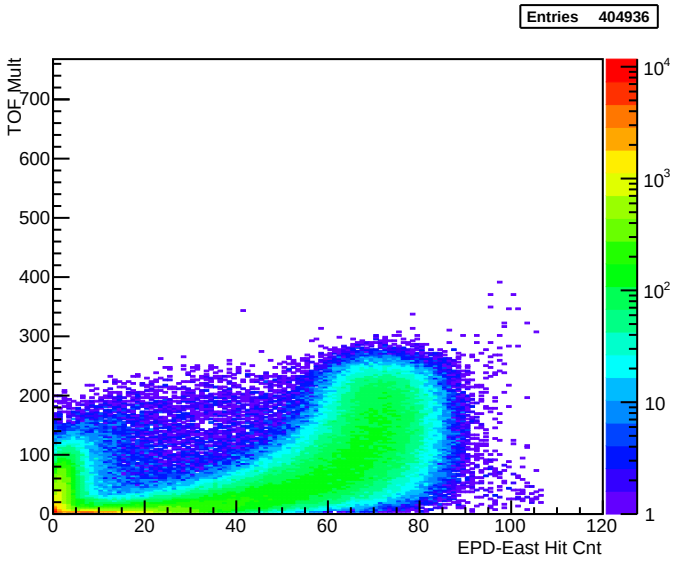

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

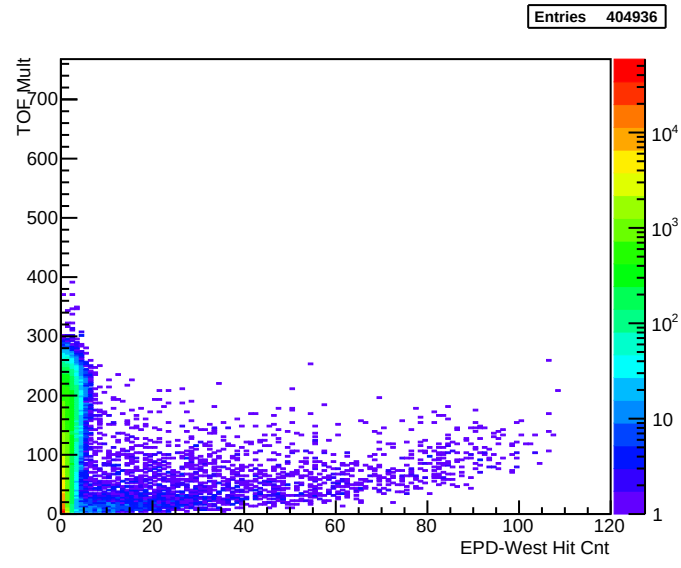

VT201 Input Ch4: VPD Adc Sum Th
Entries 809872
359836
2865
45100
402071
East
West

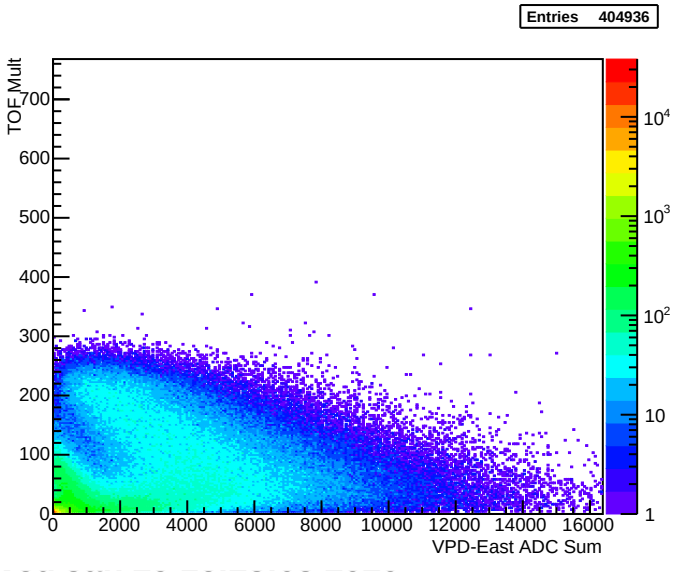

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

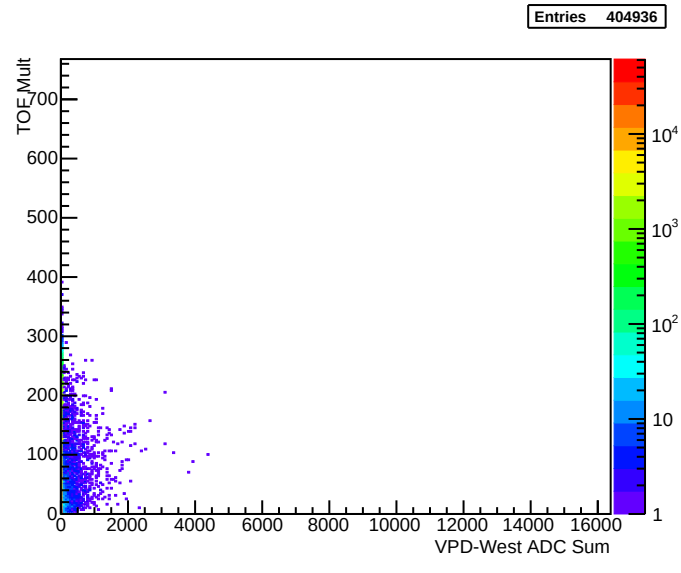

Entries 404936
TOF_Mult
BBC-S-East ADC Sum

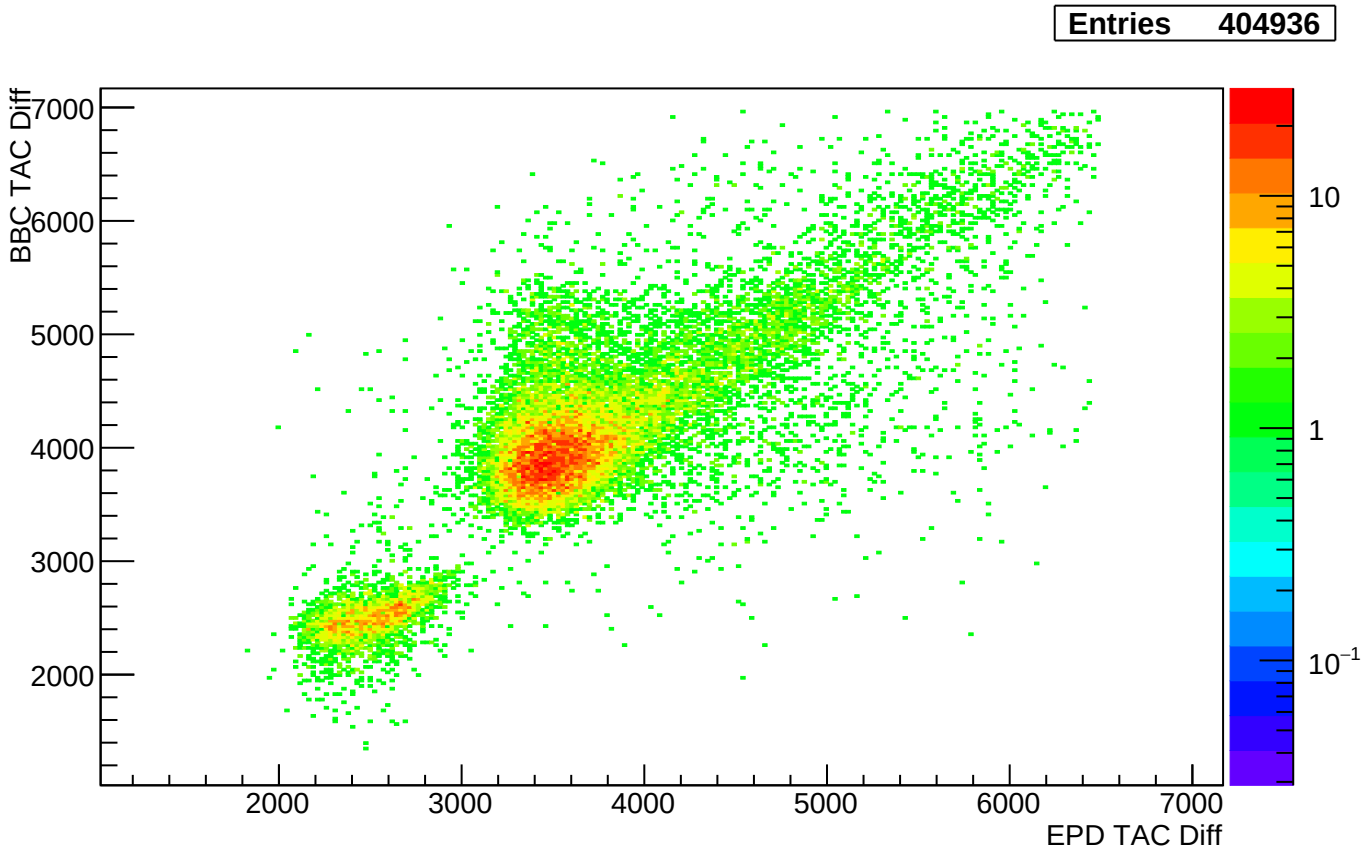

Entries 404936
TOF_Mult
BBC-S-West ADC Sum

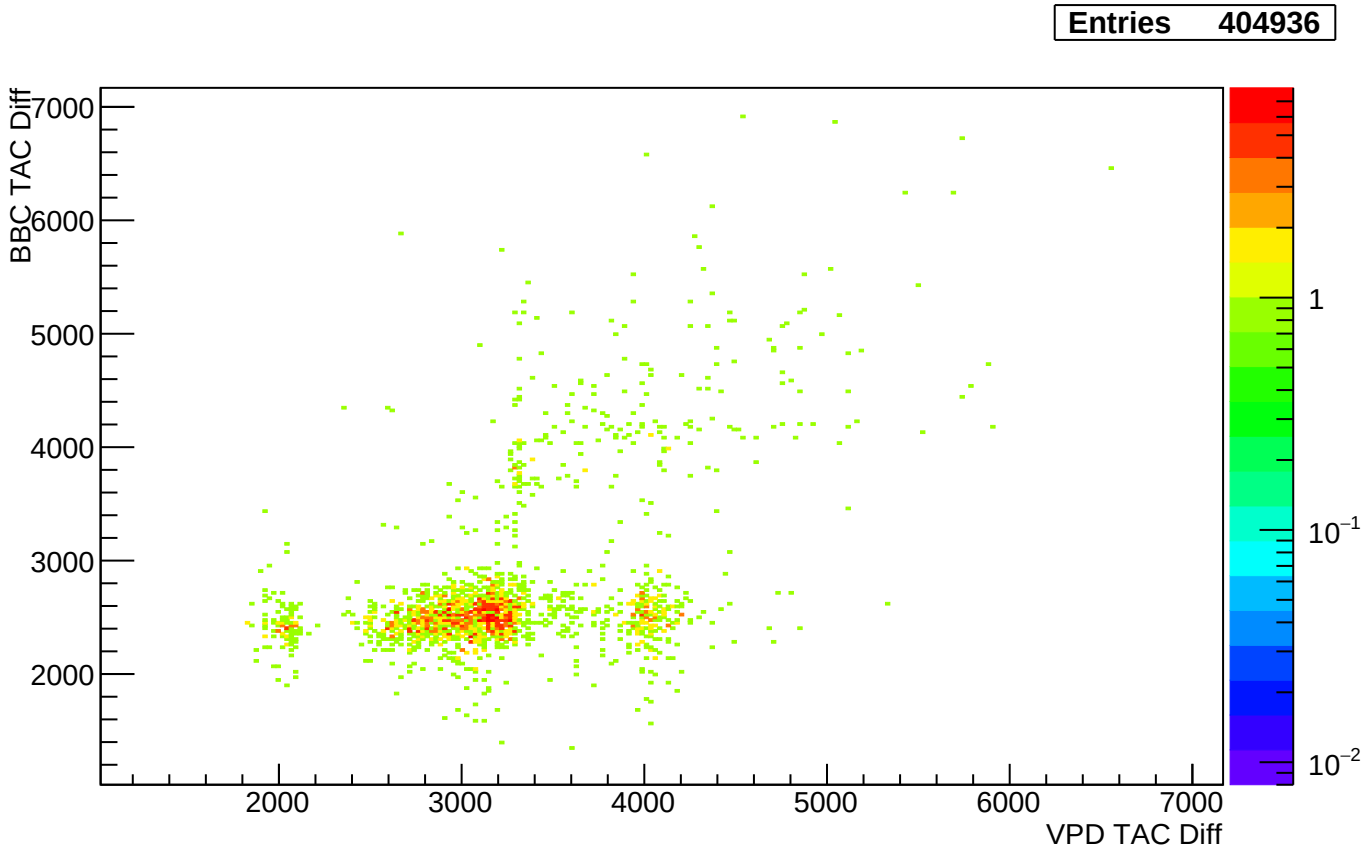

Entries 404936
TOF_Mult
EPD-East Hit Cnt

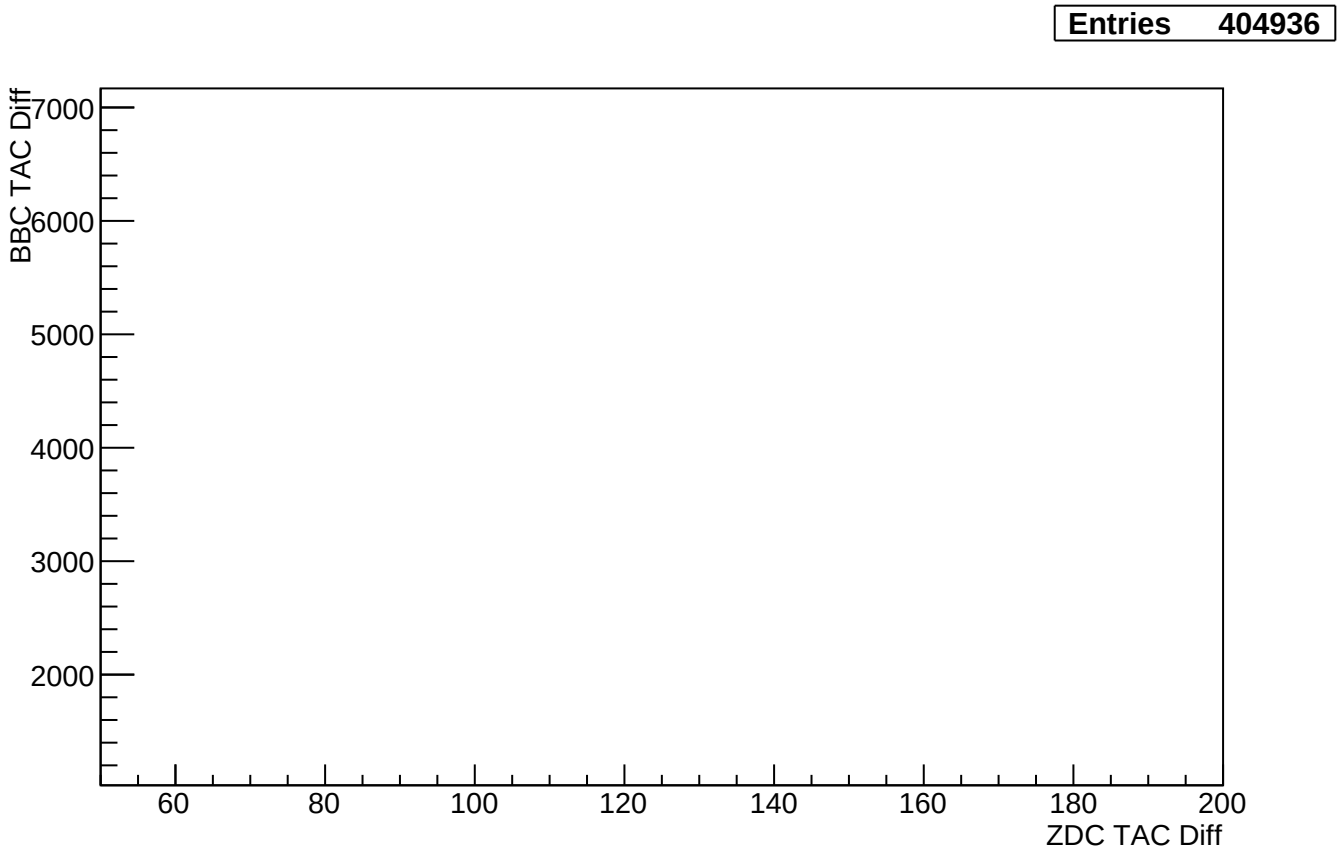

Entries 404936
TOF_Mult
EPD-West Hit Cnt

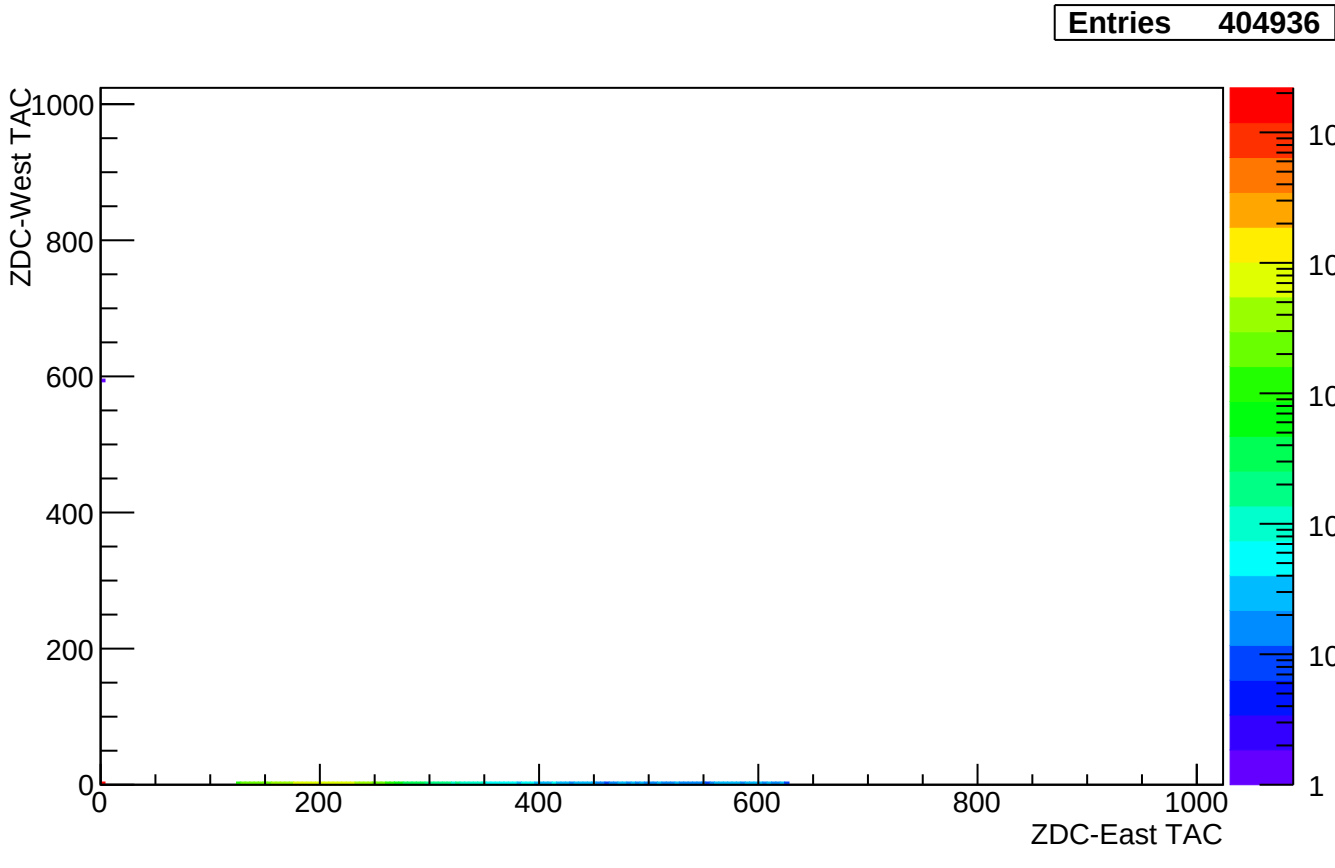

Entries 404936
TOF_Mult
VPD-East ADC Sum

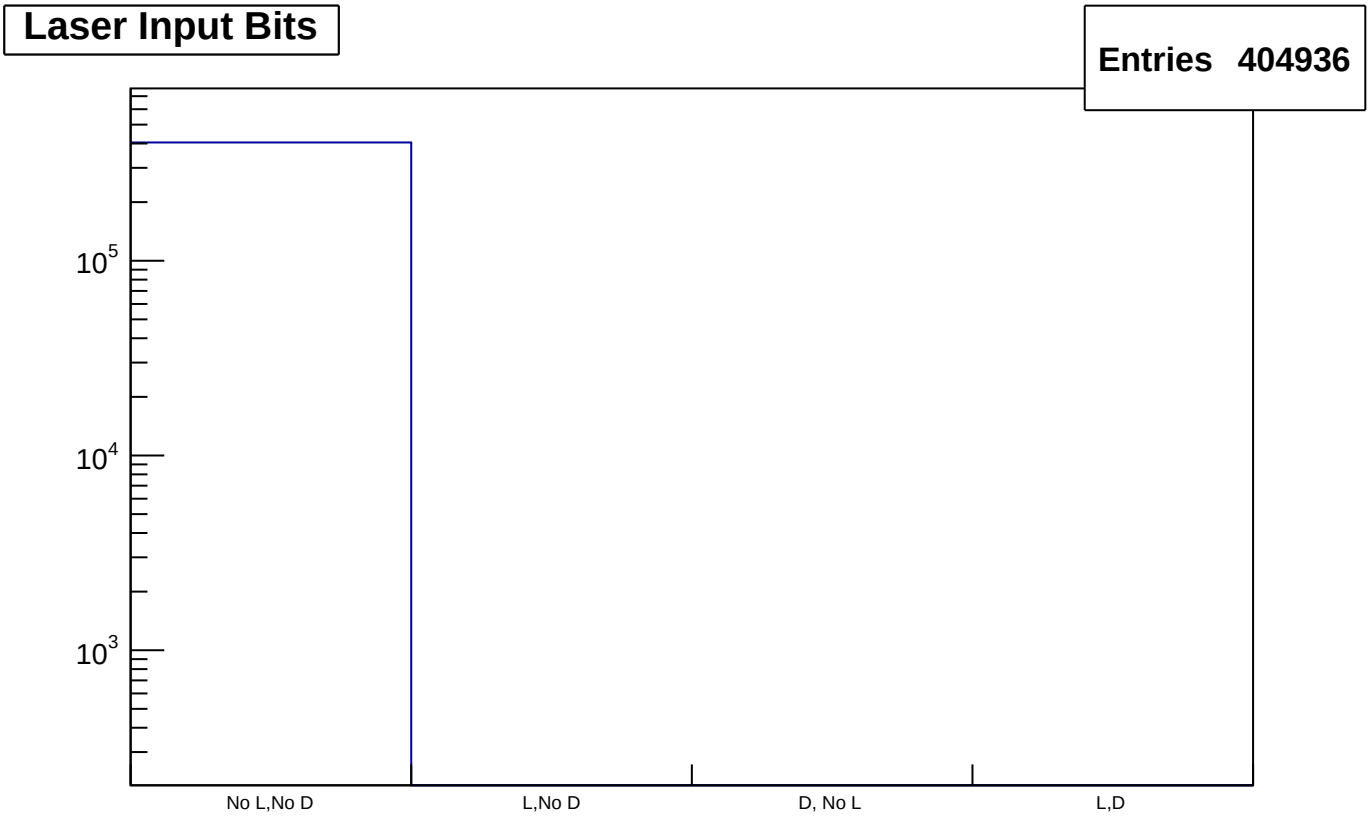

Entries 404936
TOF_Mult
VPD-West ADC Sum

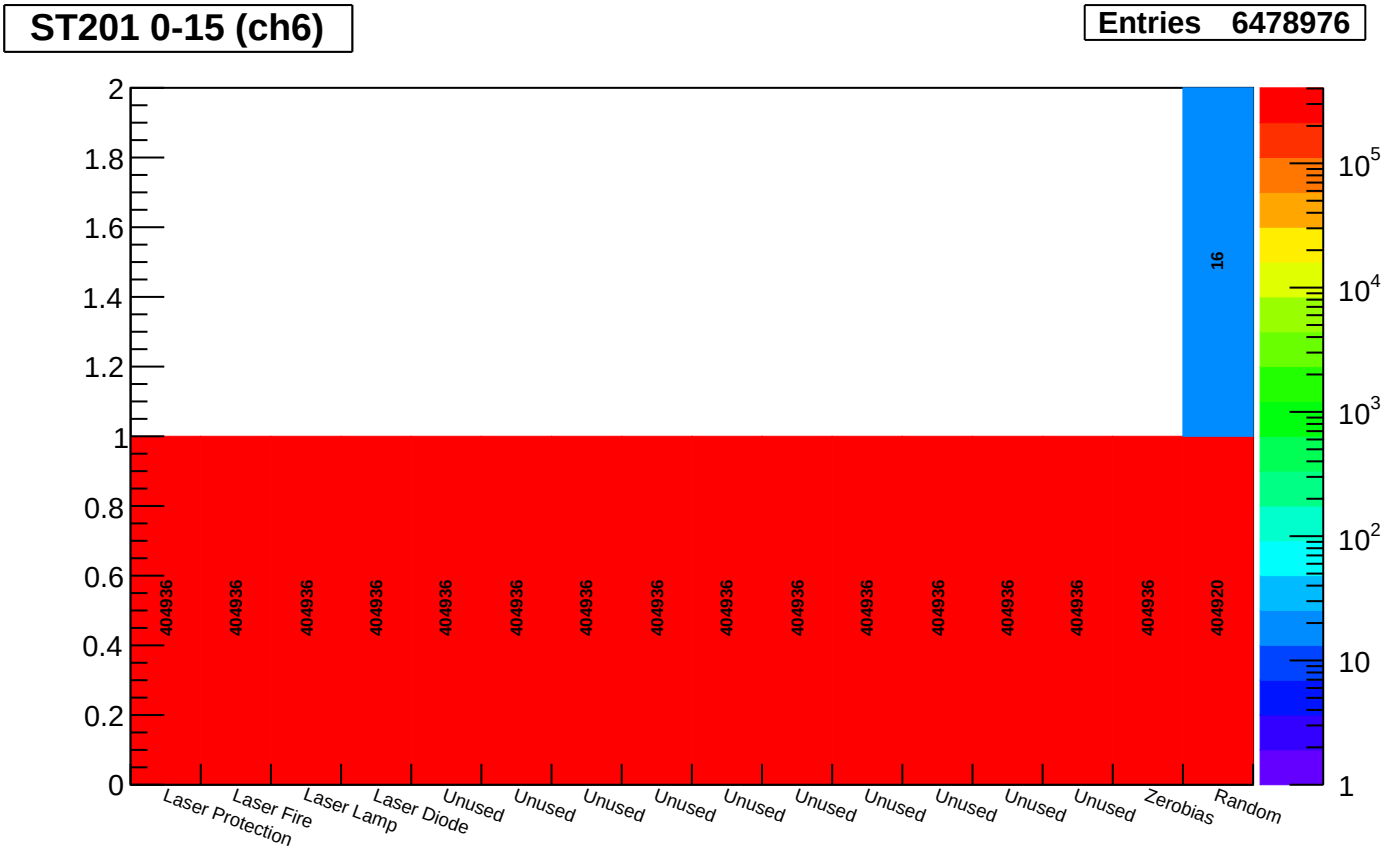

Entries 404936
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10
1
$10^{-1}$

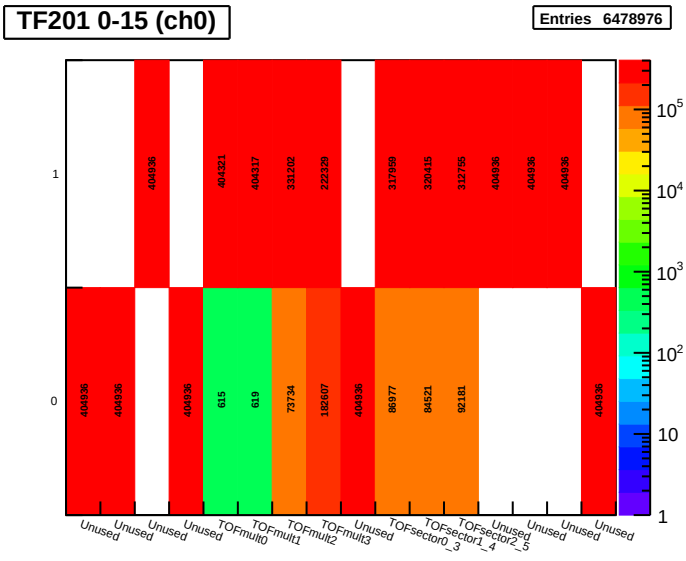

Entries 404936
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
$10^{-1}$
$10^{-2}$

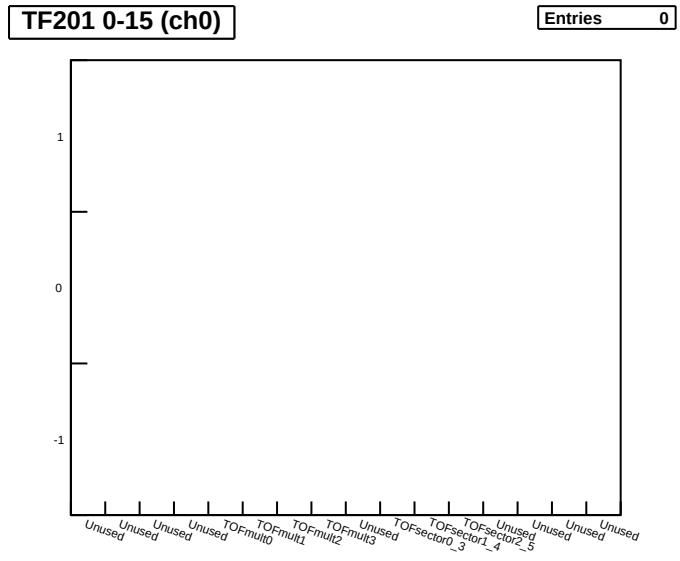

Entries 404936
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff

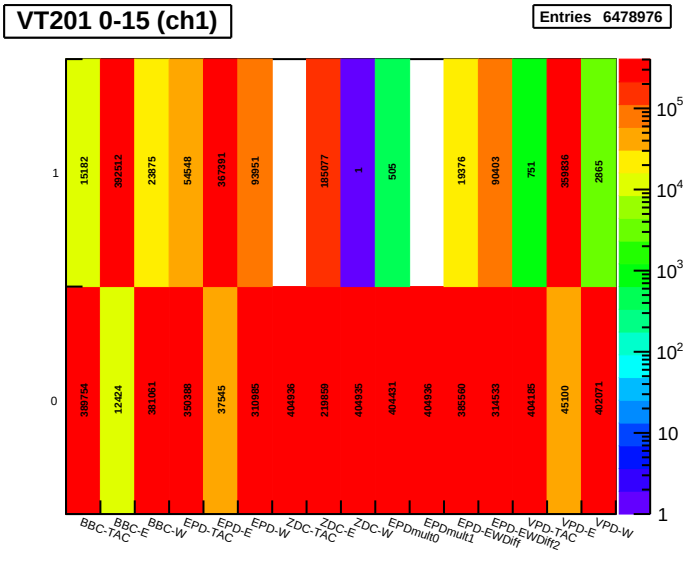

Entries 404936
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^5$
$10^4$
$10^3$
$10^2$
10
1

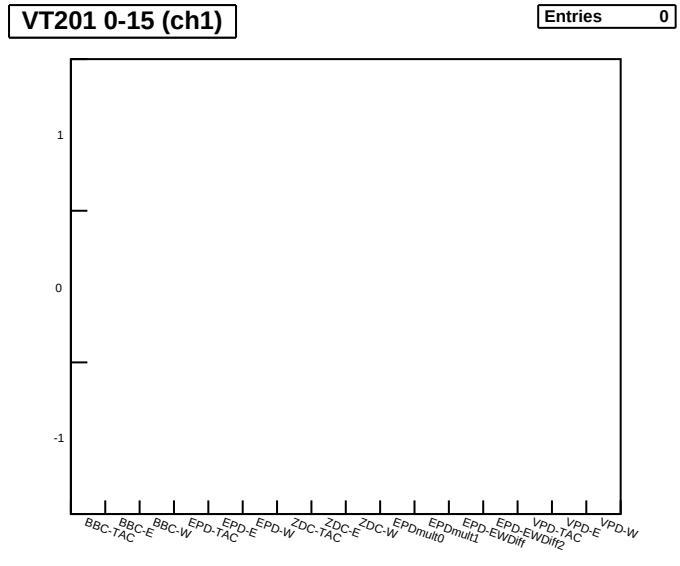

Laser Input Bits
Entries 404936
$10^5$
$10^4$
$10^3$
No L,No D
L,No D
D, No L
L,D

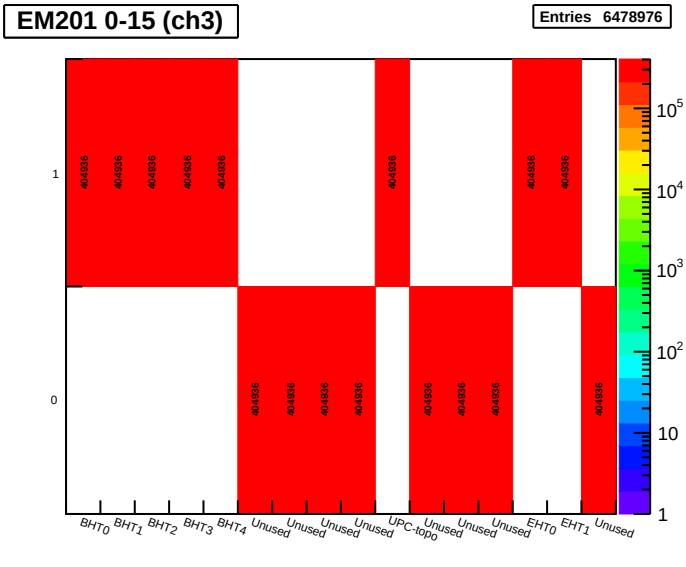

ST201 0-15 (ch6)
Entries 6478976
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
404936
404936
404936
404936
404936
404936
404936
404936
404936
404936
404936
404936
404936
404936
404920
16
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
$10^5$
$10^4$
$10^3$
$10^2$
10
1

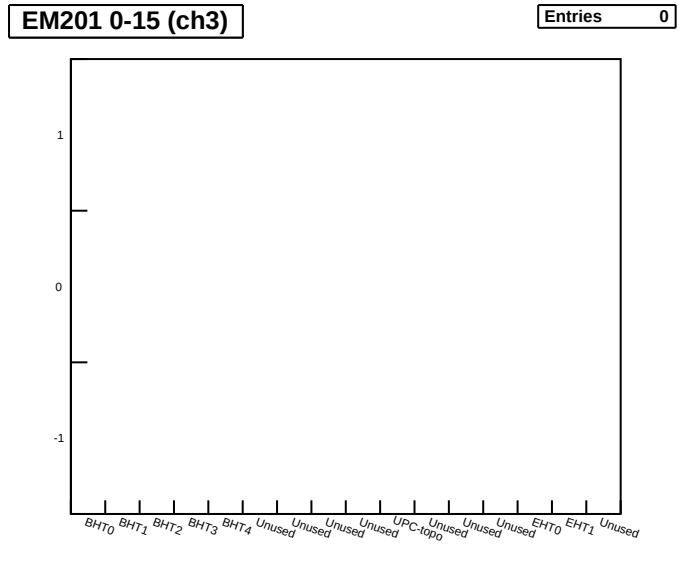

TF201 0-15 (ch0)
Entries 6478976
1
0
404936 404936 404936 404936 404321 404317 331202 222329 317959 320415 312755 404936 404936 404936
404936 404936 404936 615 619 73734 182607 404936 86977 84521 92181 404936
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
1 10 10^2 10^3 10^4 10^5


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 6478976
1
0
15182 392512 23875 54648 367391 93951 185077 1 505 19376 90403 751 359836 2865
388754 12424 361061 350388 37545 310985 404936 219959 404935 404431 404936 385560 314533 404185 45100 402071
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
1 10 10^2 10^3 10^4 10^5


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 6478976
1
0
404936 404936 404936 404936 404936 404936 404936 404936 404936
404936 404936 404936 404936 404936 404936 404936 404936
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
1 10 10^2 10^3 10^4 10^5


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