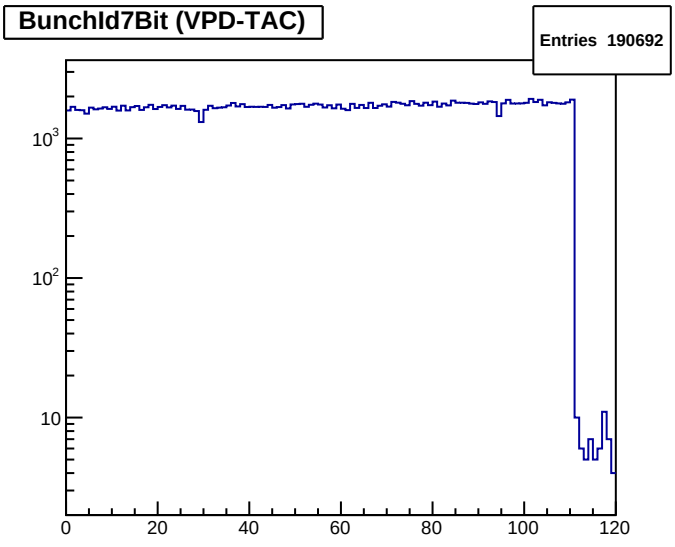
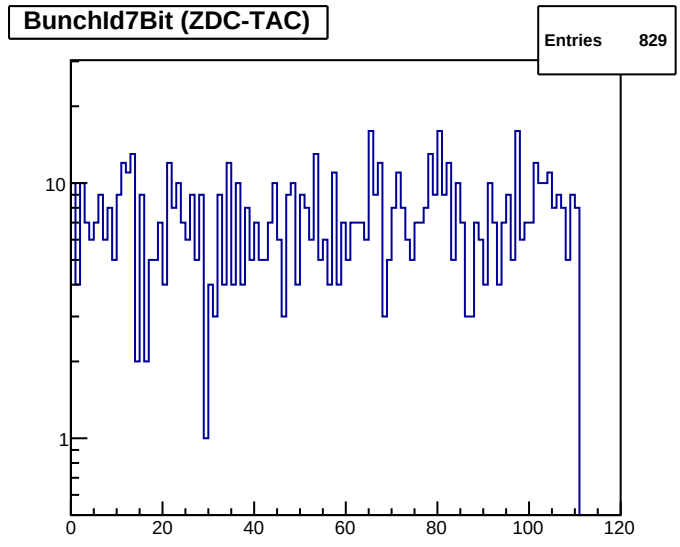
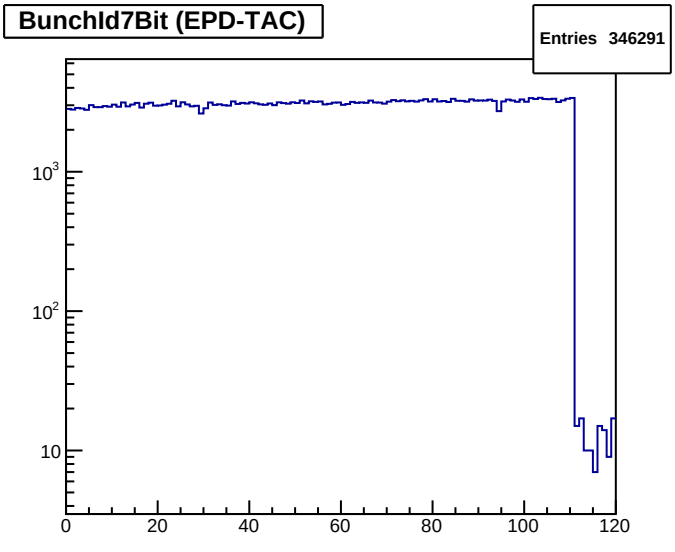
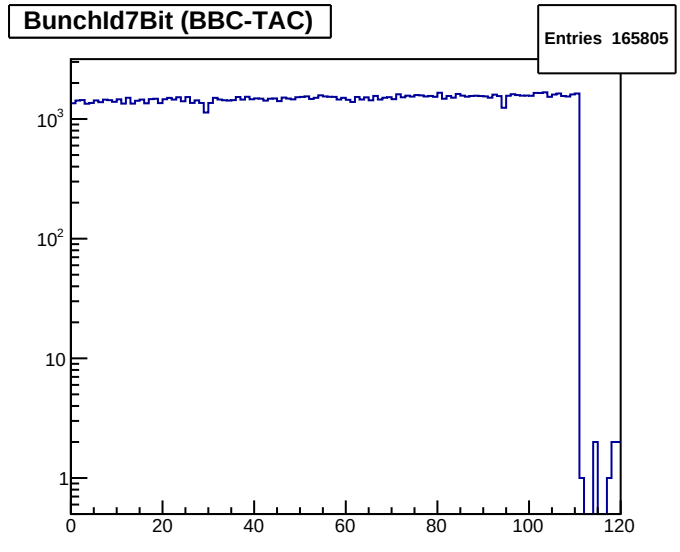
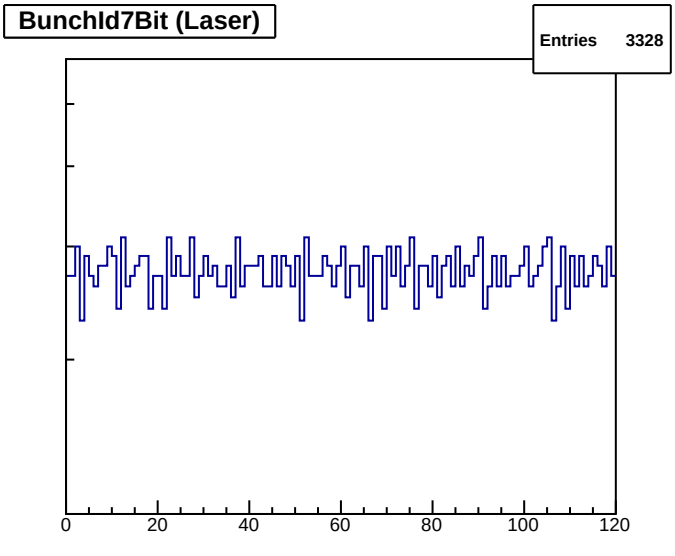
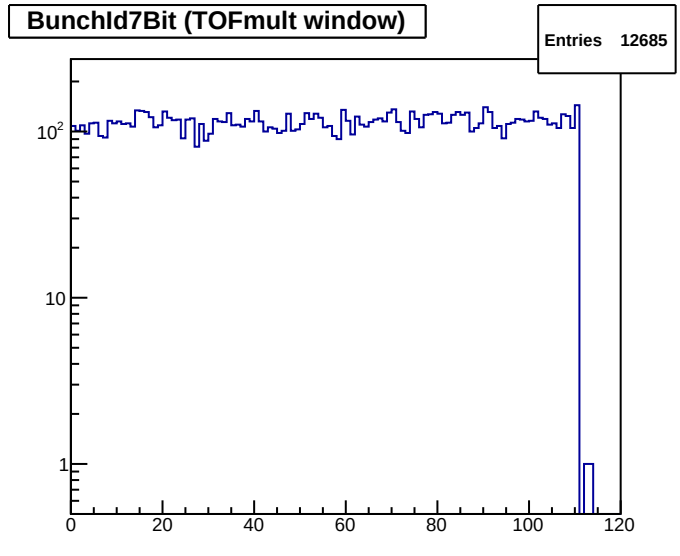

BunchId7Bit (VPD-TAC)
Entries 190692
10^3
10^2
10
0 20 40 60 80 100 120

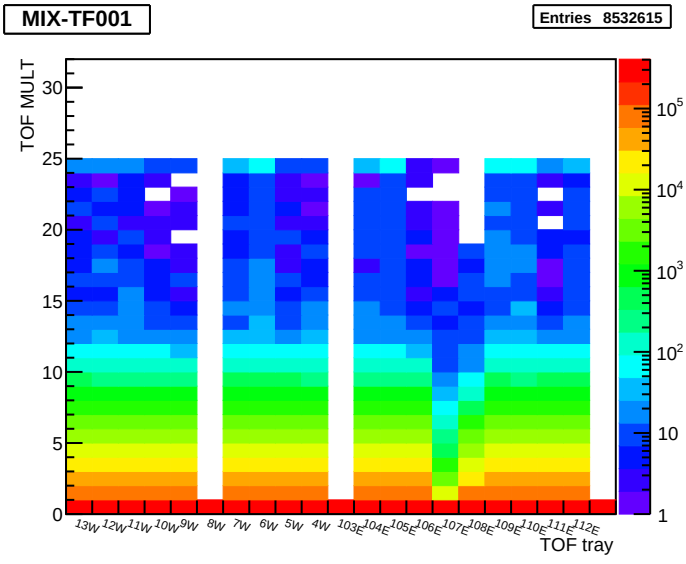

BunchId7Bit (ZDC-TAC)
Entries 829
10
1
0 20 40 60 80 100 120

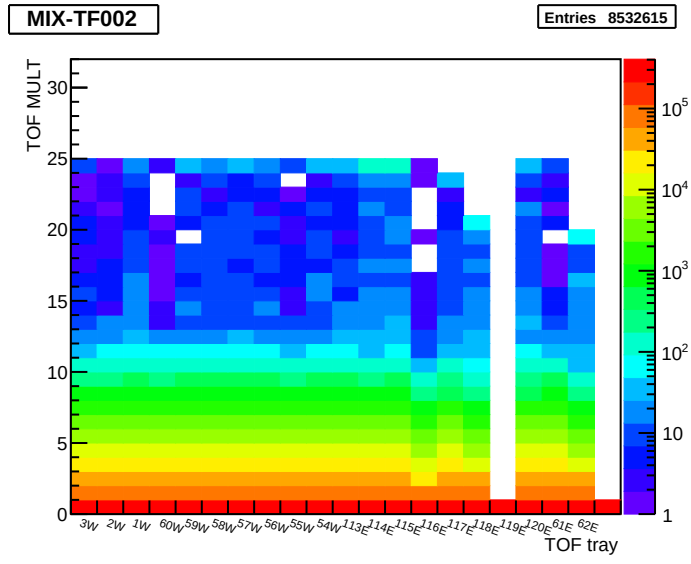

BunchId7Bit (EPD-TAC)
Entries 346291
10^3
10^2
10
0 20 40 60 80 100 120

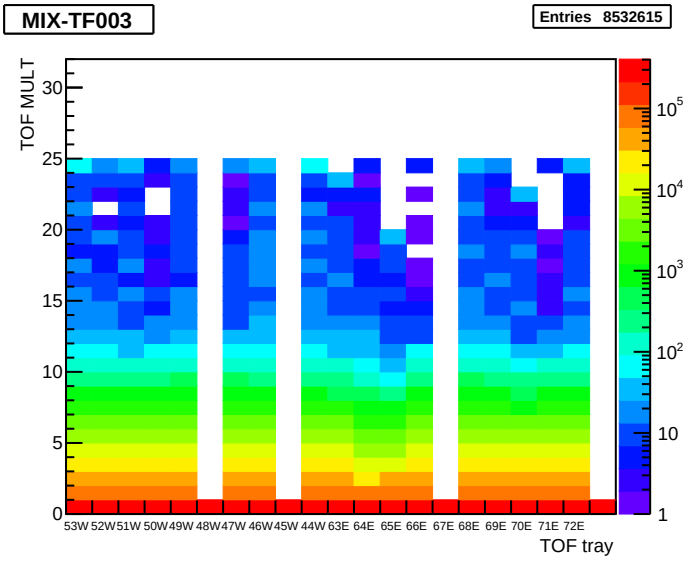

BunchId7Bit (BBC-TAC)
Entries 165805
10^3
10^2
10
1
0 20 40 60 80 100 120

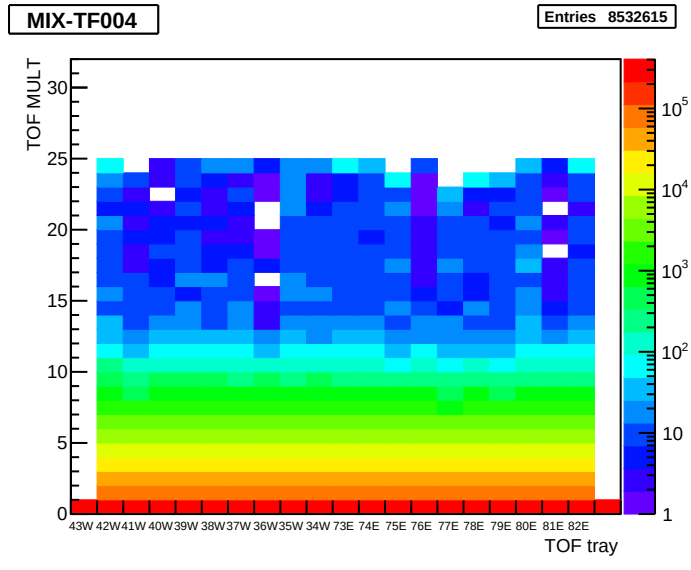

BunchId7Bit (Laser)
Entries 3328
0 20 40 60 80 100 120

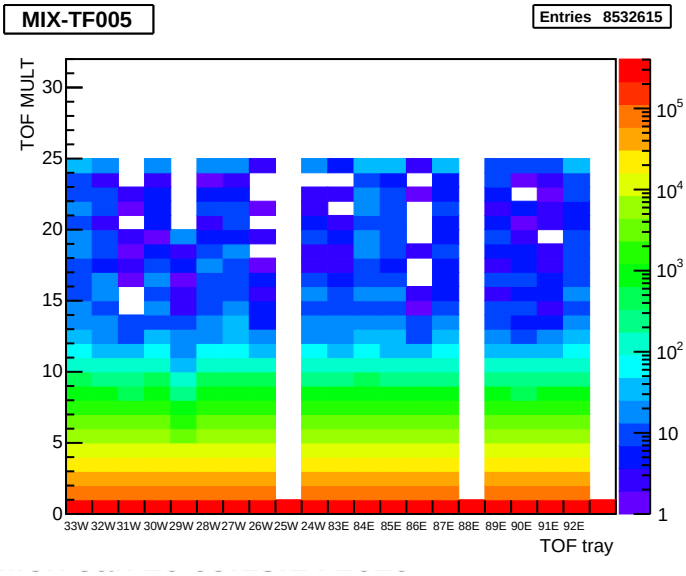

BunchId7Bit (TOFmult window)
Entries 12685
10^2
10
1
0 20 40 60 80 100 120

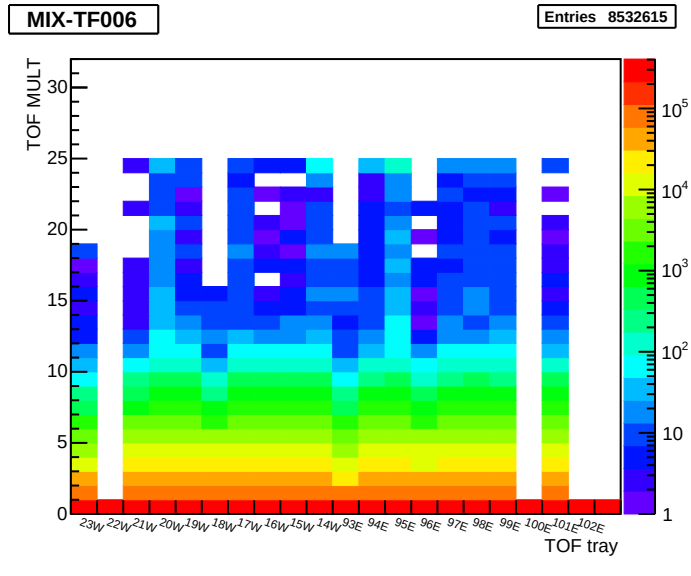

MIX-TF001
Entries 8532615
TOF MULT
TOF tray

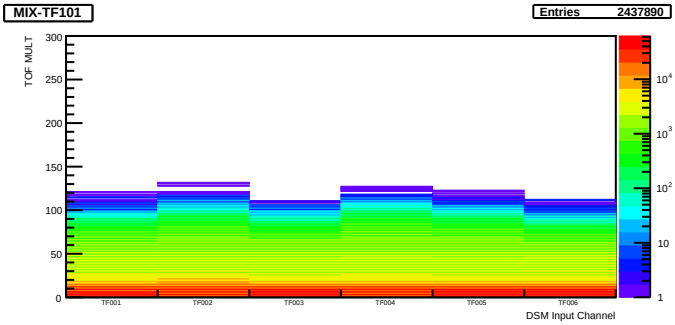

MIX-TF002
Entries 8532615
TOF MULT
TOF tray

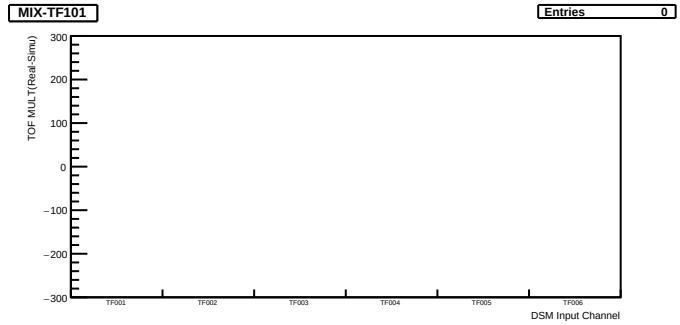

MIX-TF003
Entries 8532615
TOF MULT
TOF tray

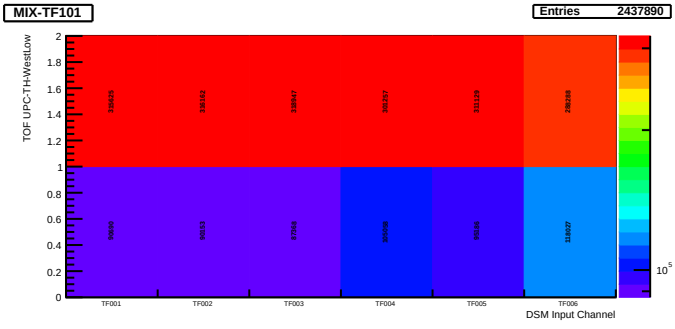

MIX-TF004
Entries 8532615
TOF MULT
TOF tray

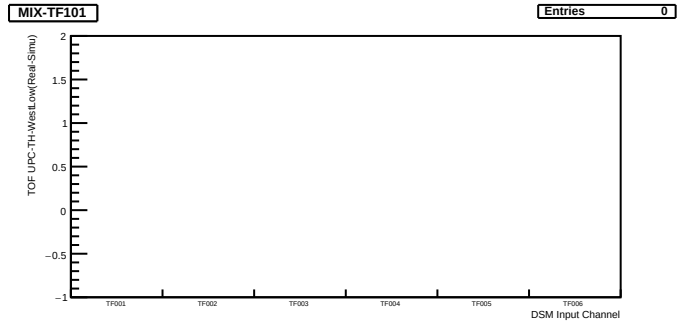

MIX-TF005
Entries 8532615
TOF MULT
TOF tray

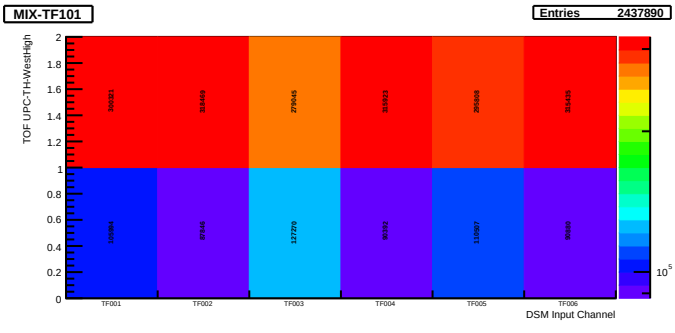

MIX-TF006
Entries 8532615
TOF MULT
TOF tray

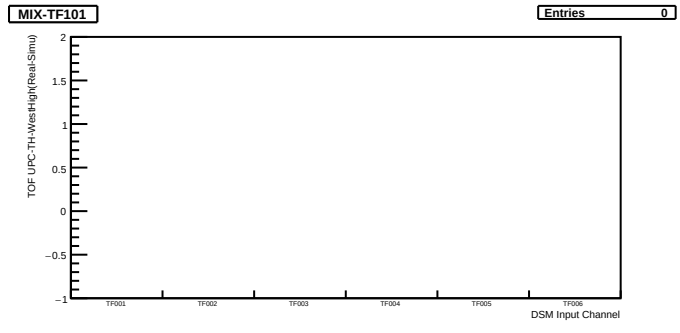

MIX-TF101
Entries 2437890
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

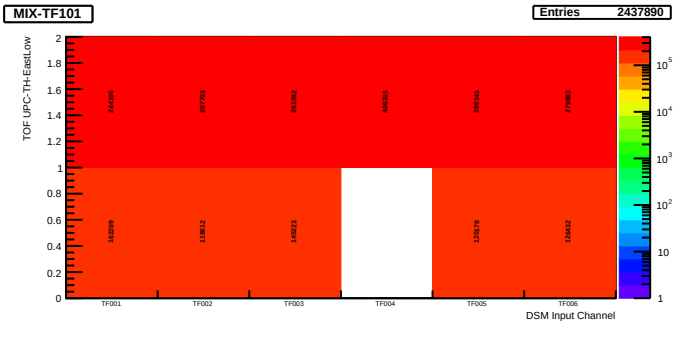

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

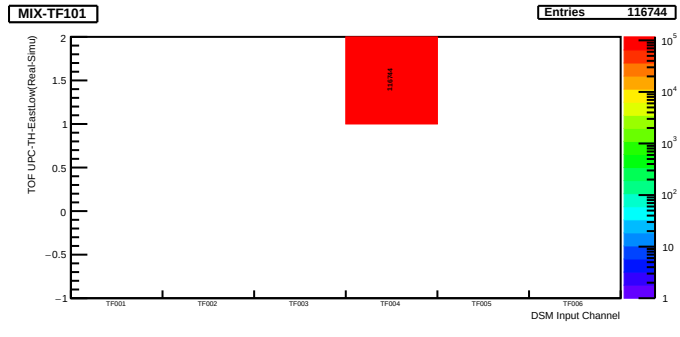

MIX-TF101
Entries 2437890
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

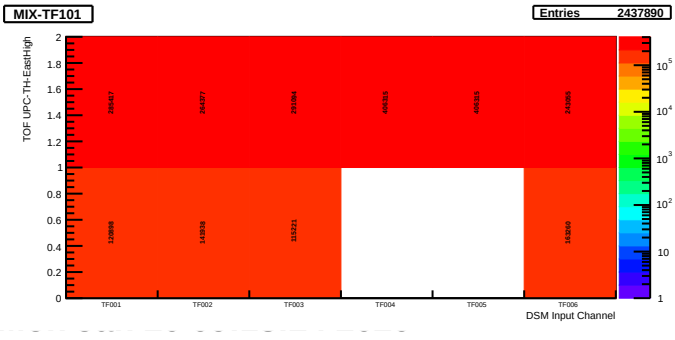

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

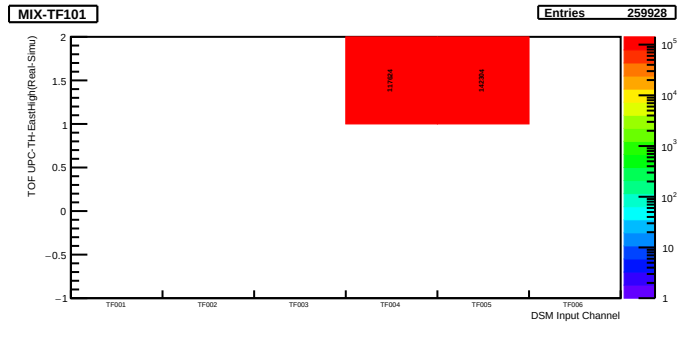

MIX-TF101
Entries 2437890
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

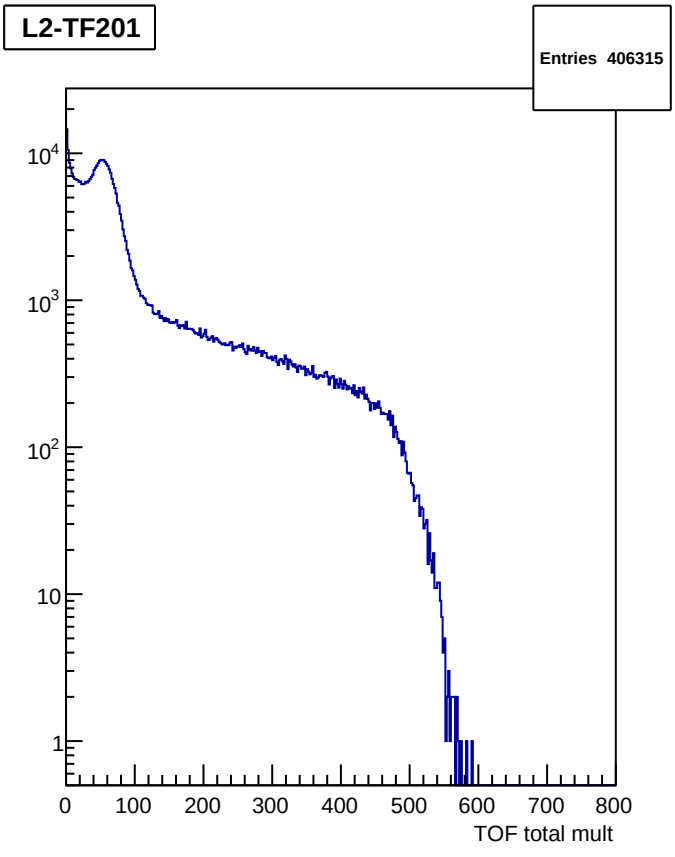

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

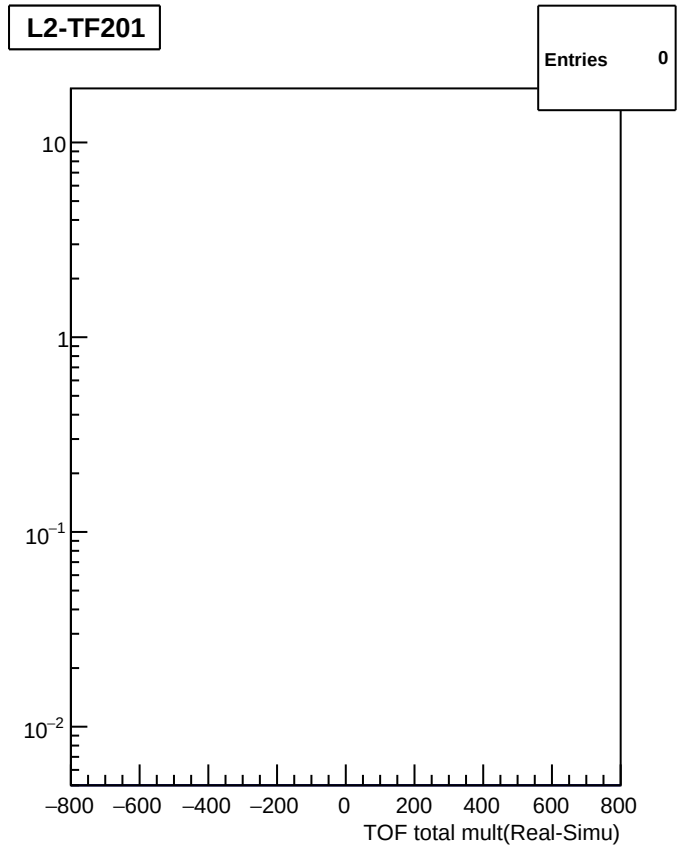

MIX-TF101
Entries 2437890
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

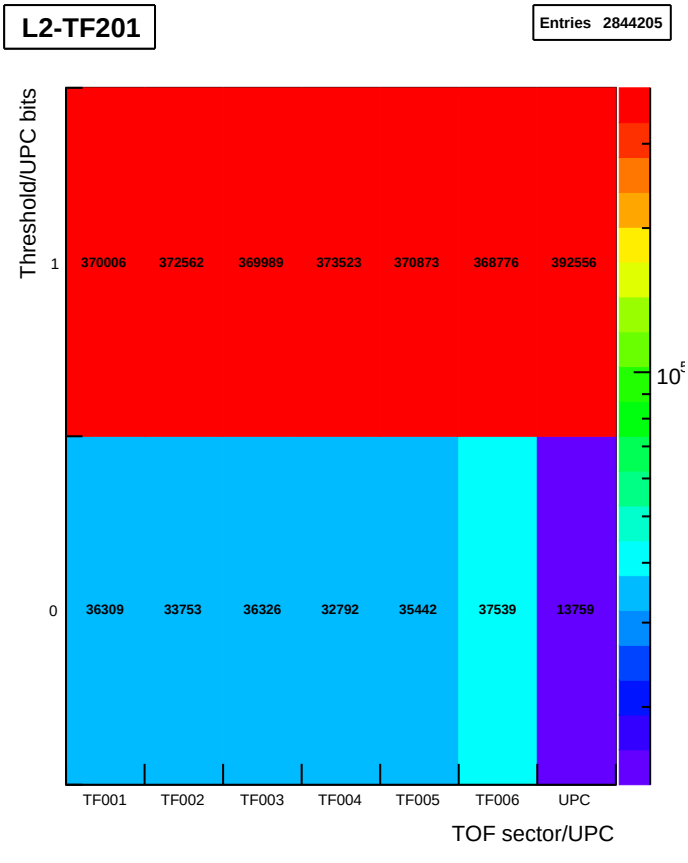

MIX-TF101
Entries 116744
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

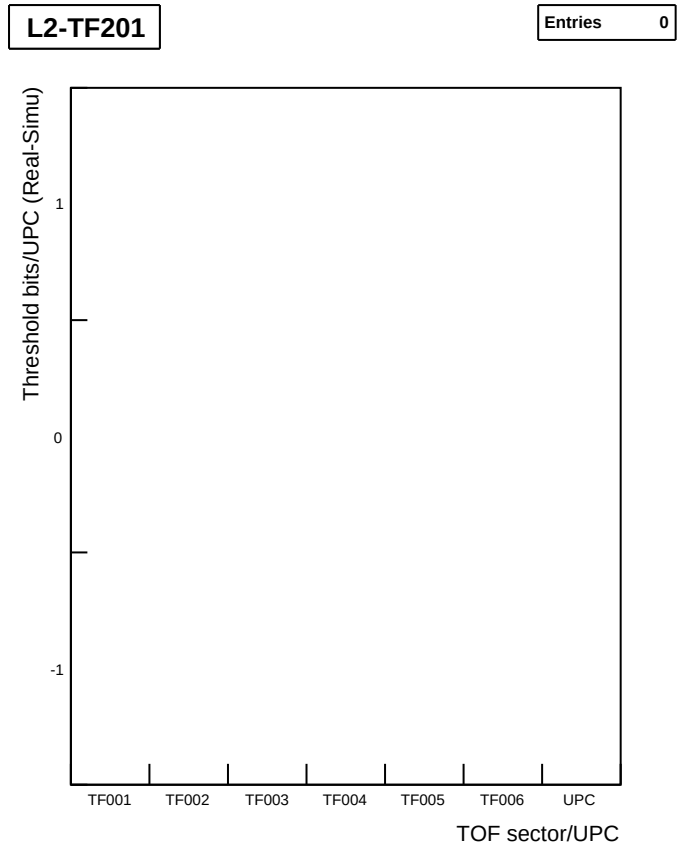

MIX-TF101
Entries 2437890
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

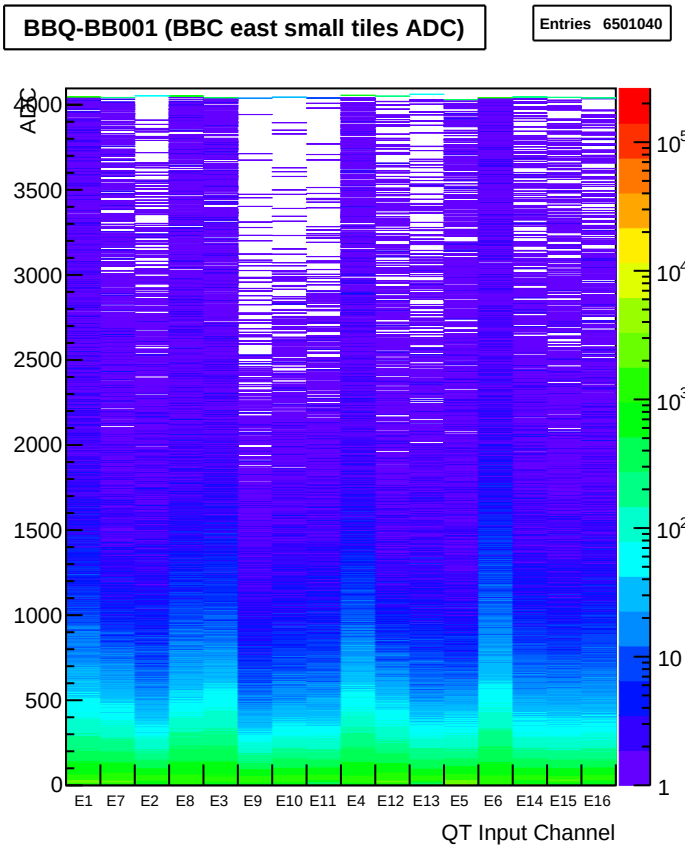

MIX-TF101
Entries 259928
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

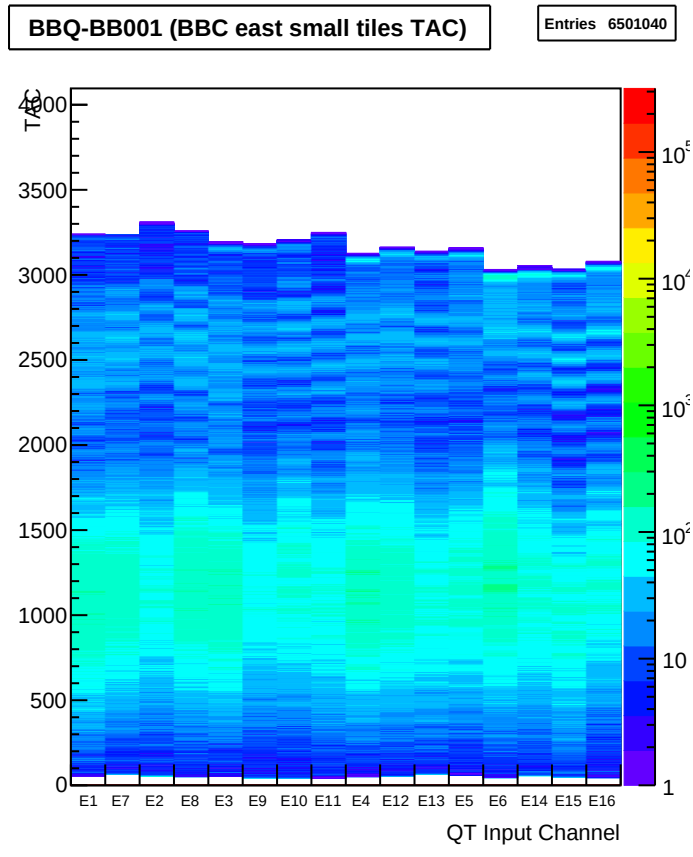

L2-TF201
Entries 406315
TOF total mult

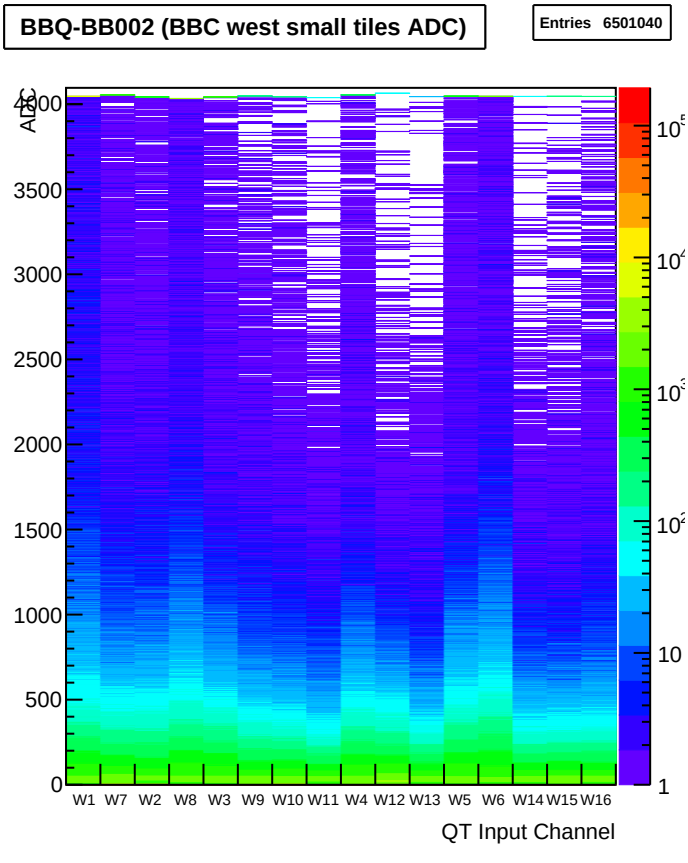

L2-TF201
Entries 0
TOF total mult(Real-Simu)

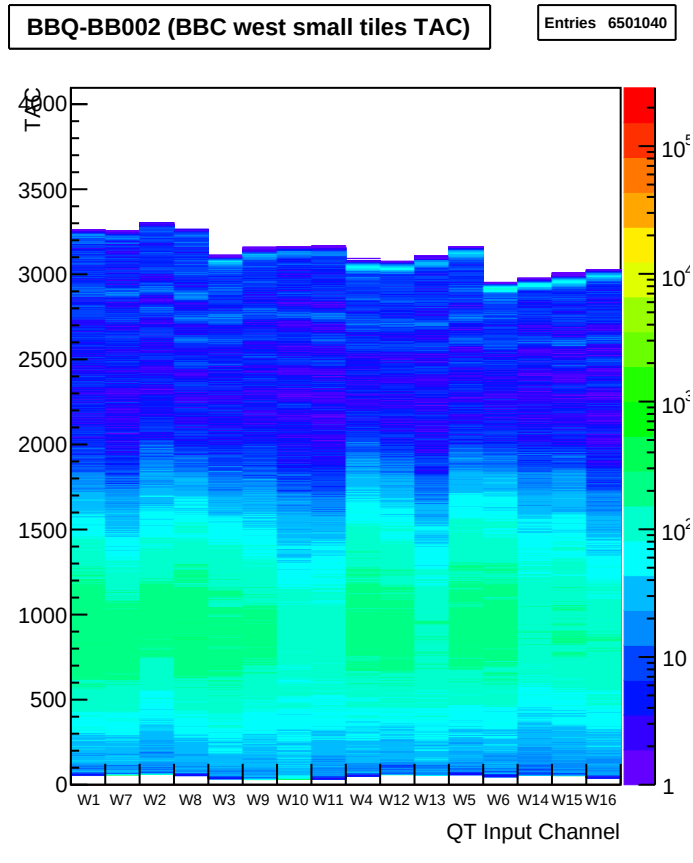

L2-TF201
Entries 2844205
Threshold/UPC bits
370006
372562
369989
373523
370873
368776
392556
36309
33753
36326
32792
35442
37539
13759
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

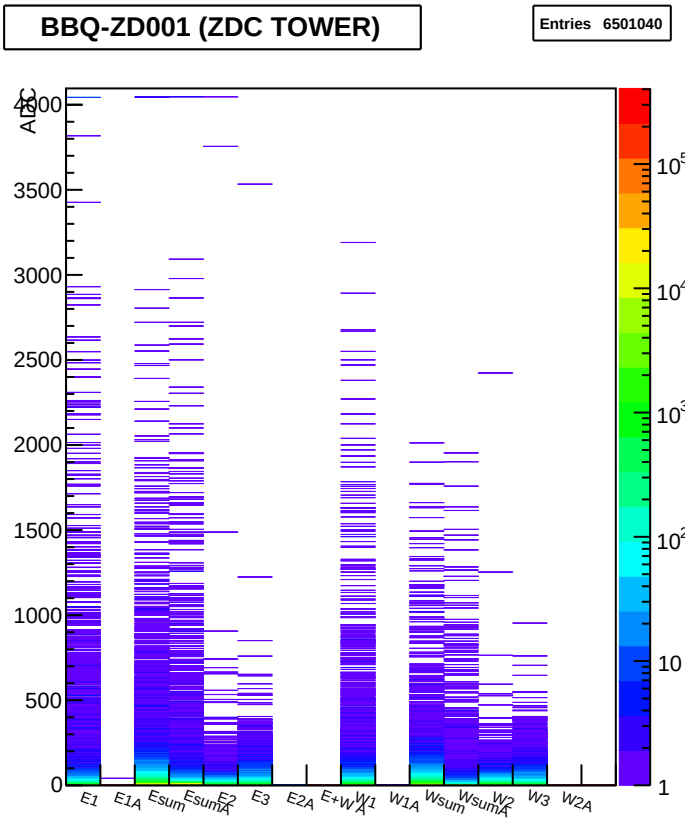

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

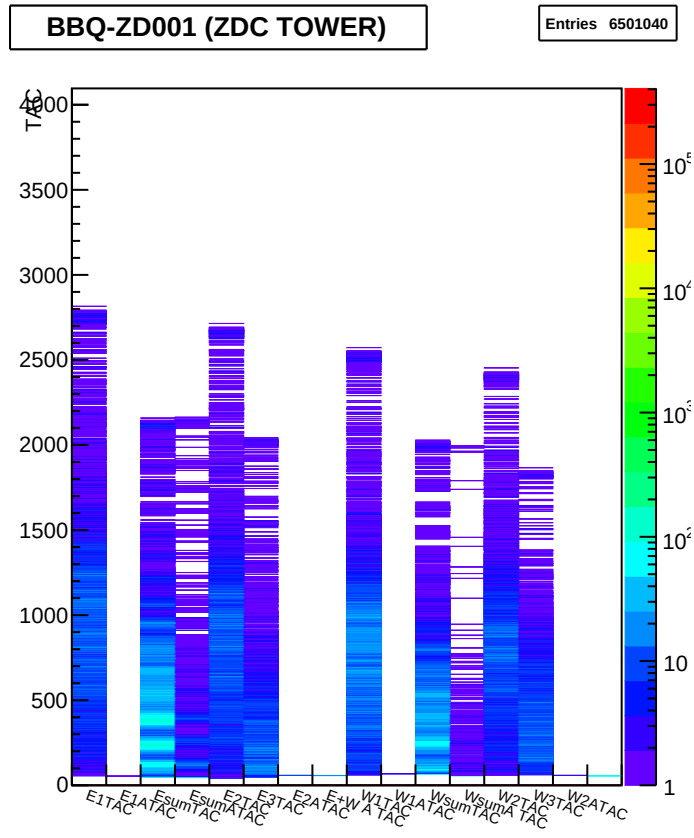

BBQ-BB001 (BBC east small tiles ADC)
Entries 6501040
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

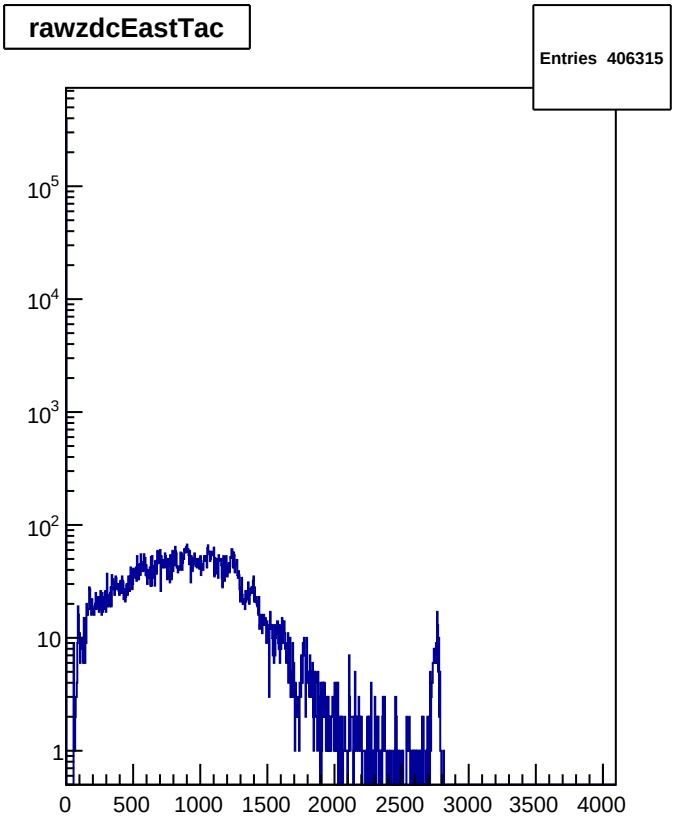

BBQ-BB001 (BBC east small tiles TAC)
Entries 6501040
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

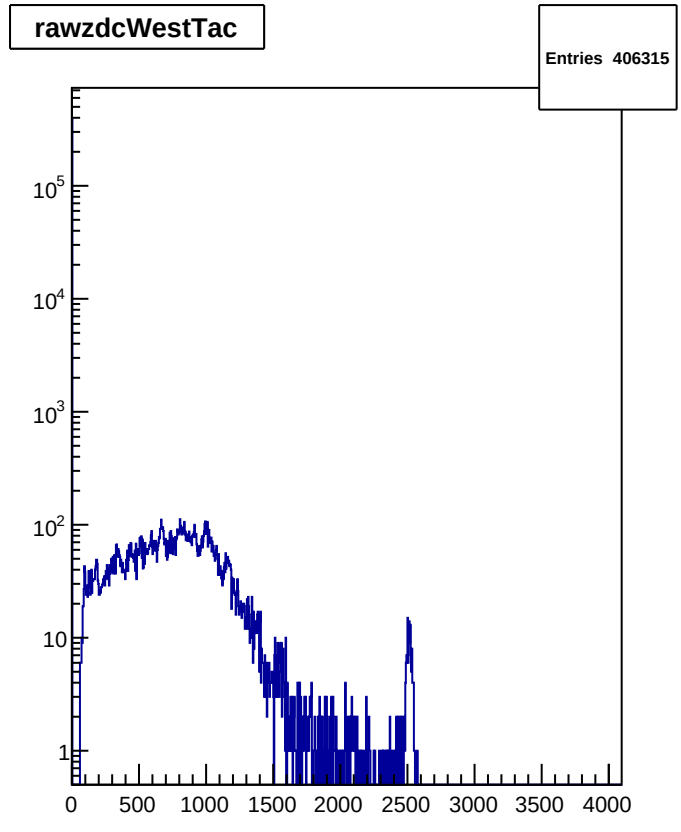

BBQ-BB002 (BBC west small tiles ADC)
Entries 6501040
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

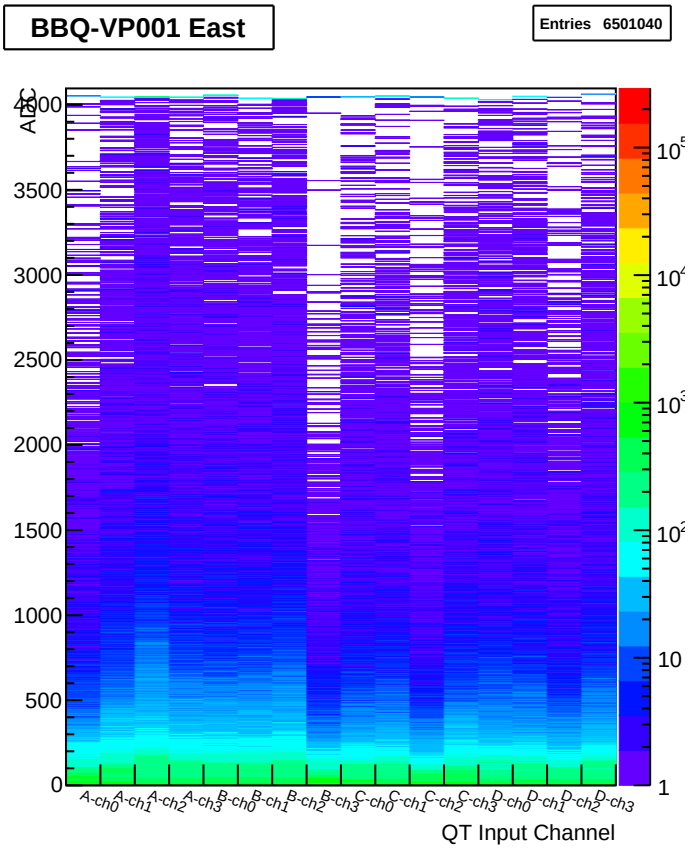

BBQ-BB002 (BBC west small tiles TAC)
Entries 6501040
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

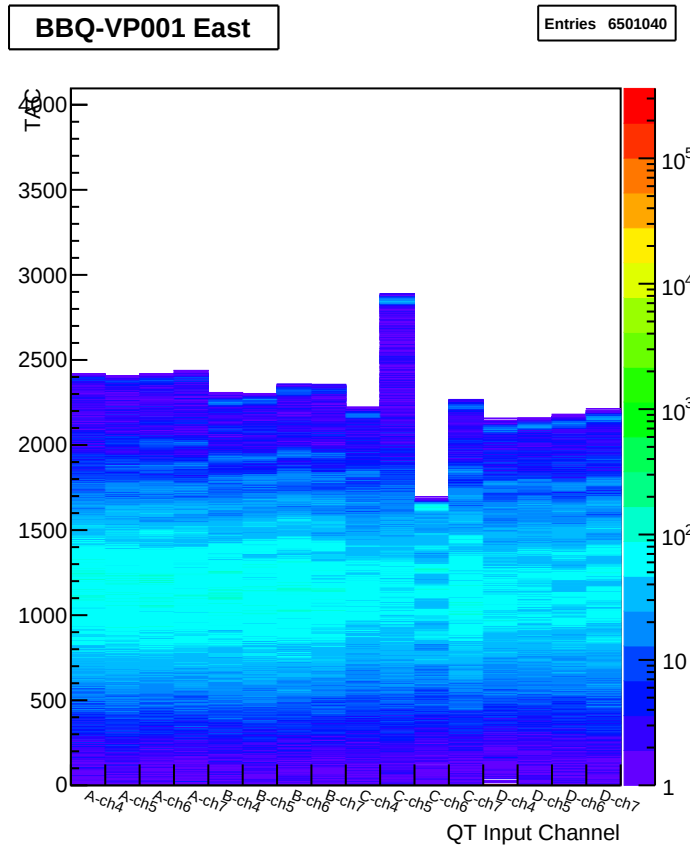

BBQ-ZD001 (ZDC TOWER)
Entries 6501040
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

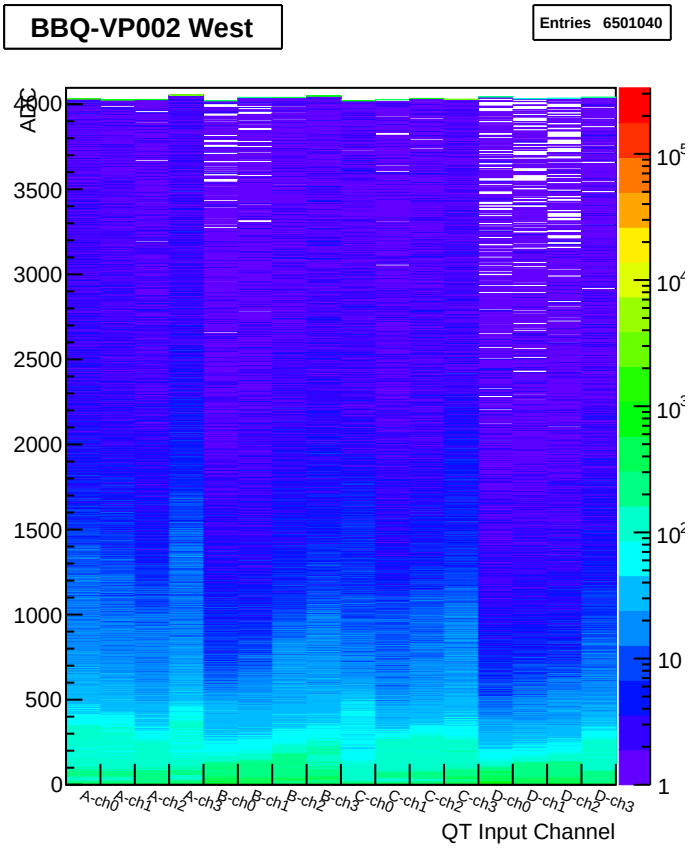

BBQ-ZD001 (ZDC TOWER)
Entries 6501040
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

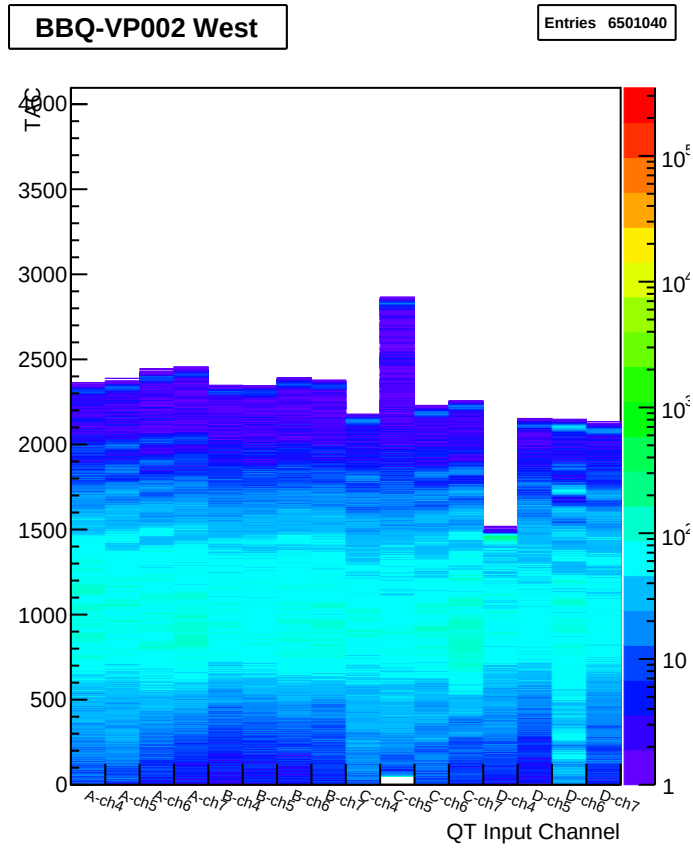

rawzdcEastTac
Entries 406315

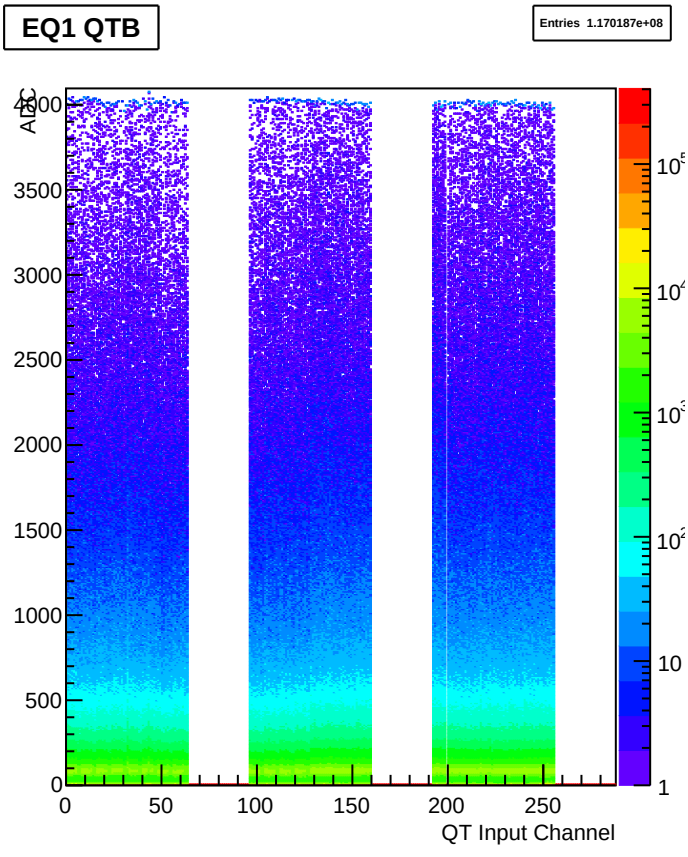

rawzdcWestTac
Entries 406315

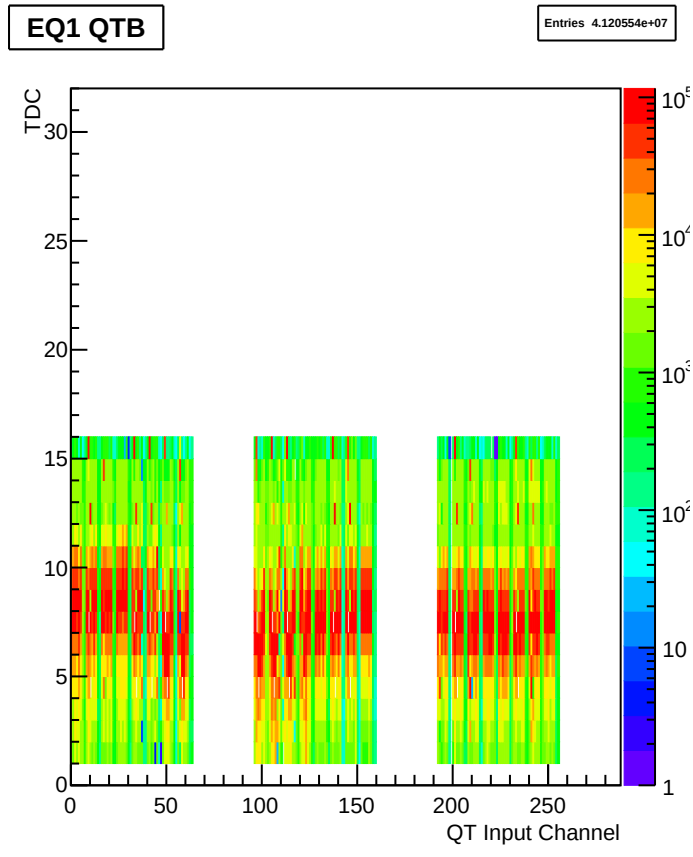

BBQ-VP001 East
Entries 6501040
ADC
QT Input Channel

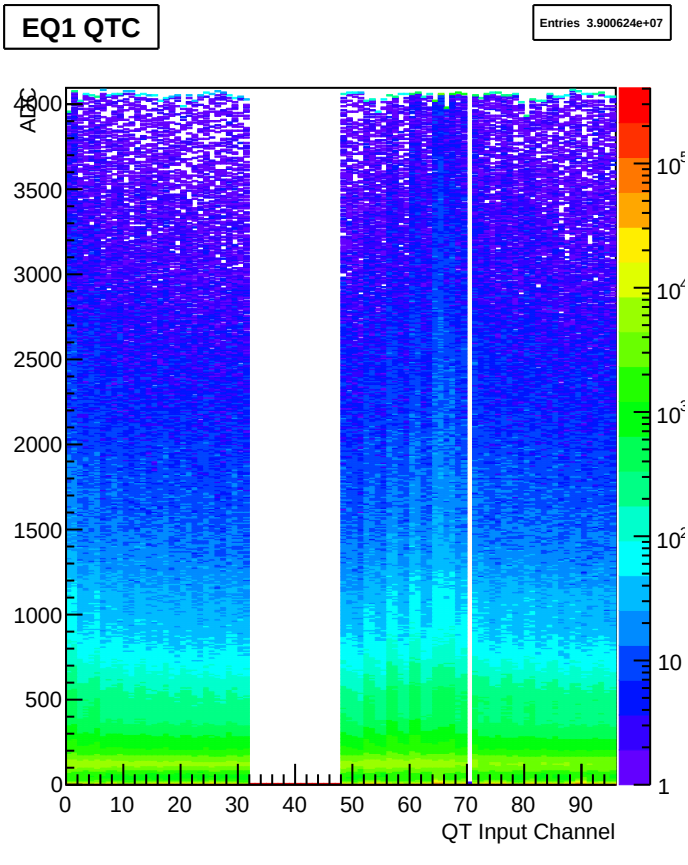

BBQ-VP001 East
Entries 6501040
ADC
QT Input Channel

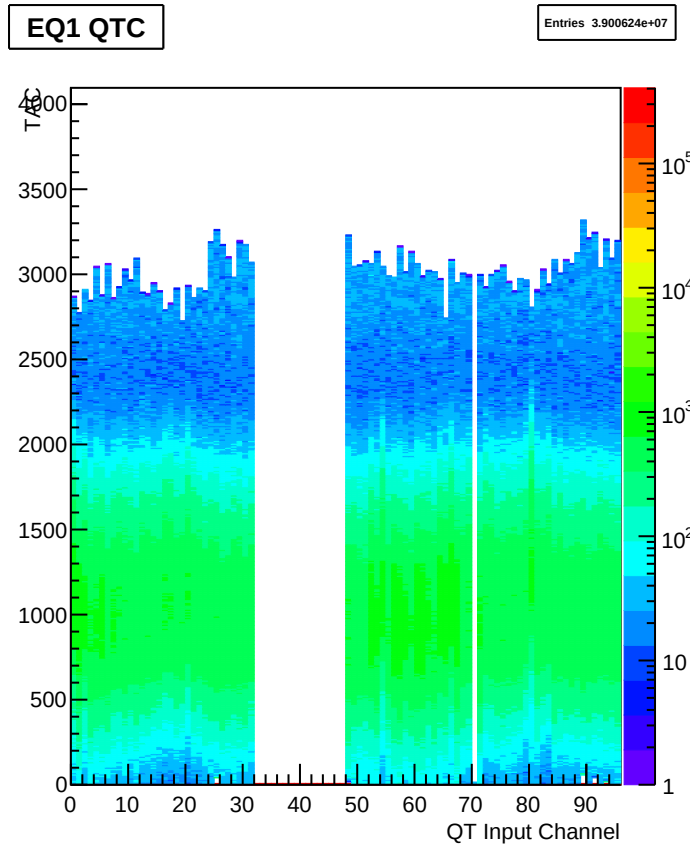

BBQ-VP002 West
Entries 6501040
ADC
QT Input Channel

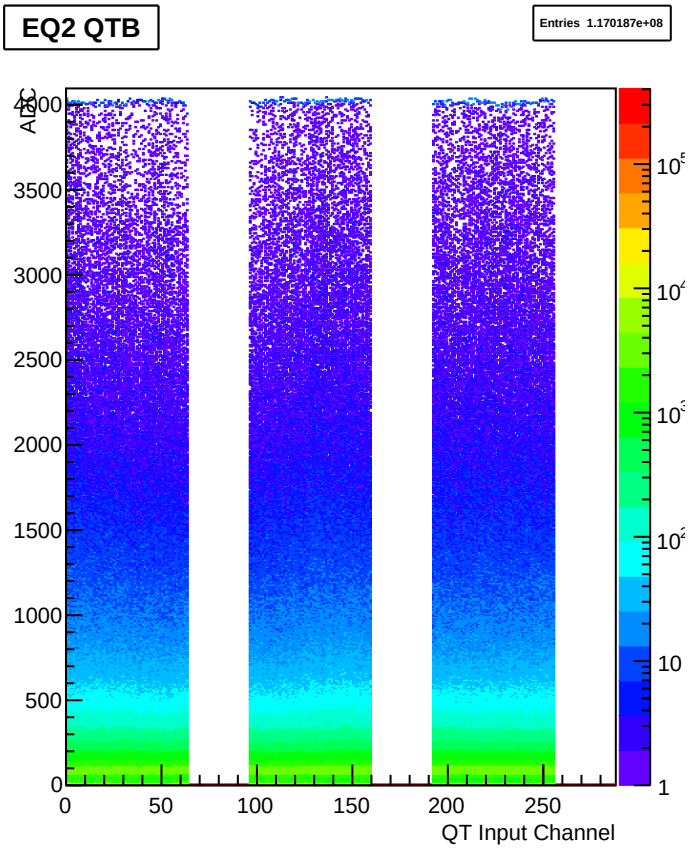

BBQ-VP002 West
Entries 6501040
ADC
QT Input Channel

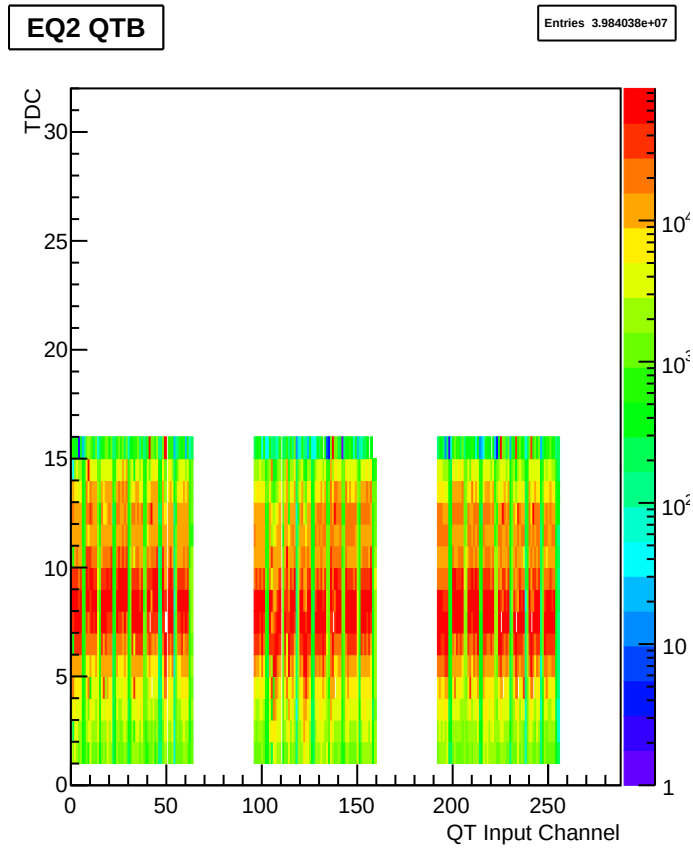

EQ1 QTB
Entries 1.170187e+08
ADC
QT Input Channel

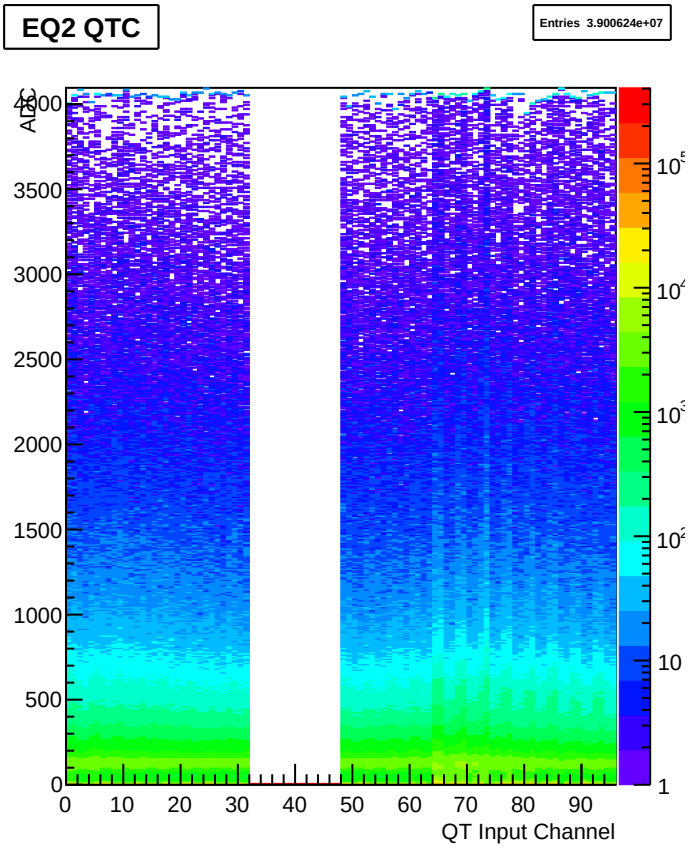

EQ1 QTB
Entries 4.120554e+07
TDC
QT Input Channel

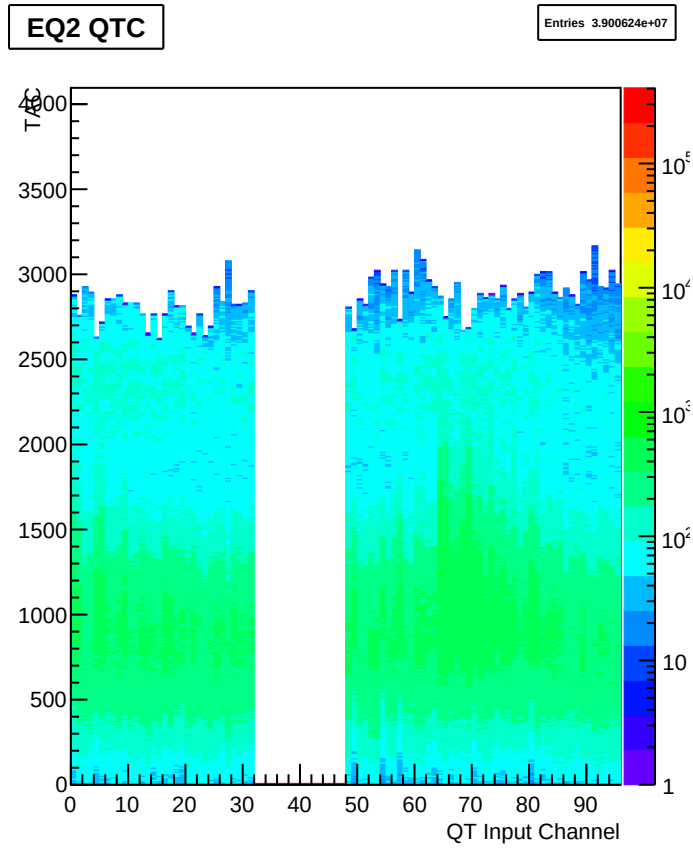

EQ1 QTC
Entries 3.900624e+07
ADC
QT Input Channel

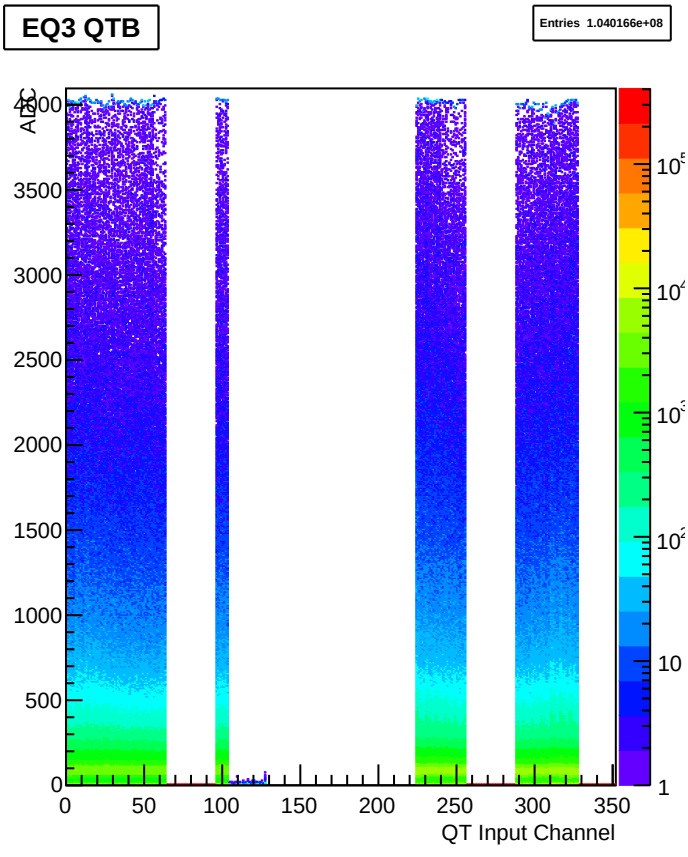

EQ1 QTC
Entries 3.900624e+07
TADC
QT Input Channel

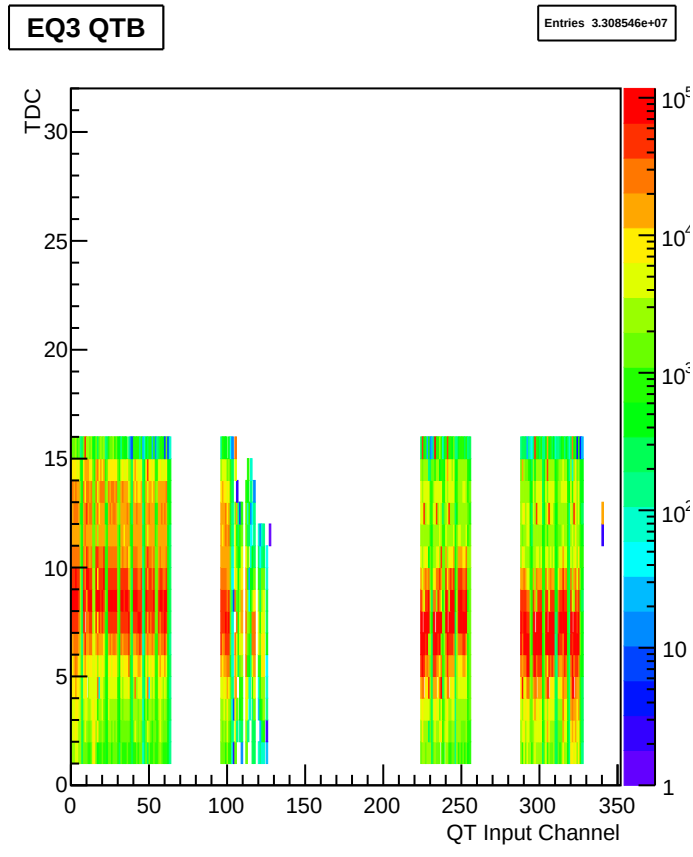

EQ2 QTB
Entries 1.170187e+08
ADC
QT Input Channel

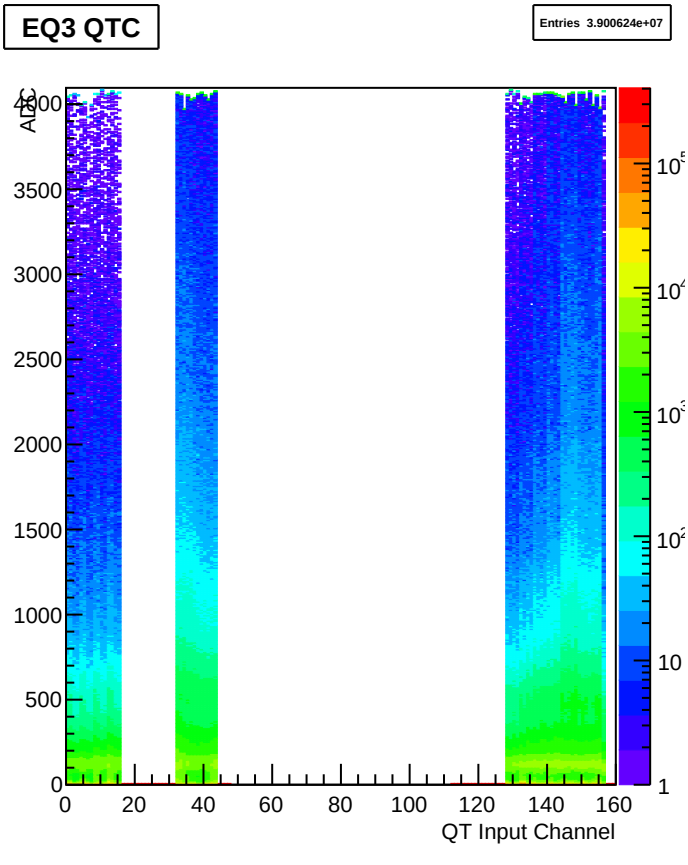

EQ2 QTB
Entries 3.984038e+07
TDC
QT Input Channel

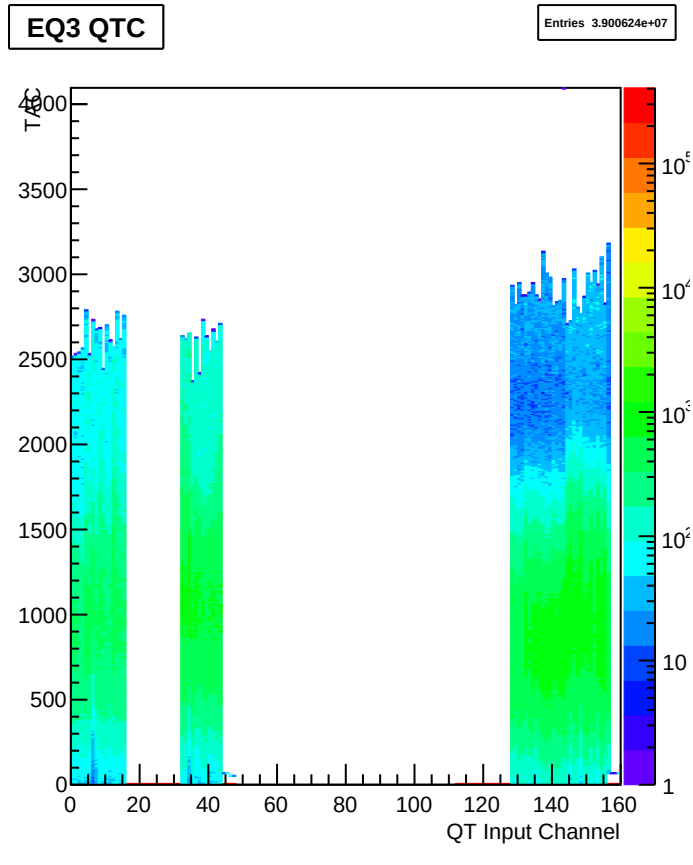

EQ2 QTC
Entries 3.900624e+07
ADC
QT Input Channel

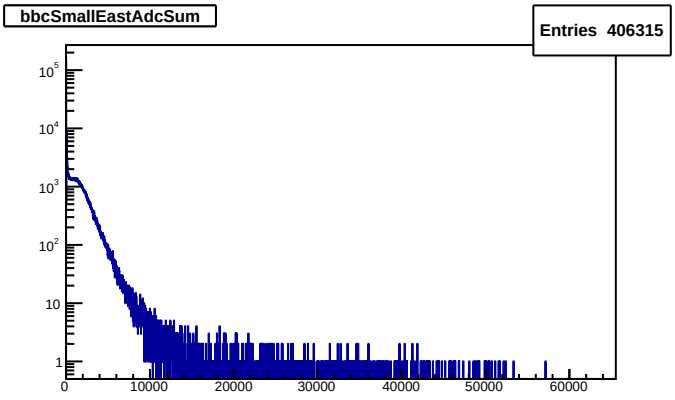

EQ2 QTC
Entries 3.900624e+07
TADC
QT Input Channel

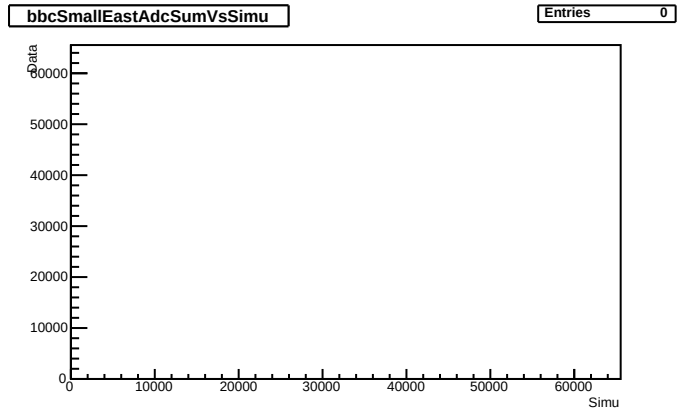

EQ3 QTB
Entries 1.040166e+08
ADC
QT Input Channel

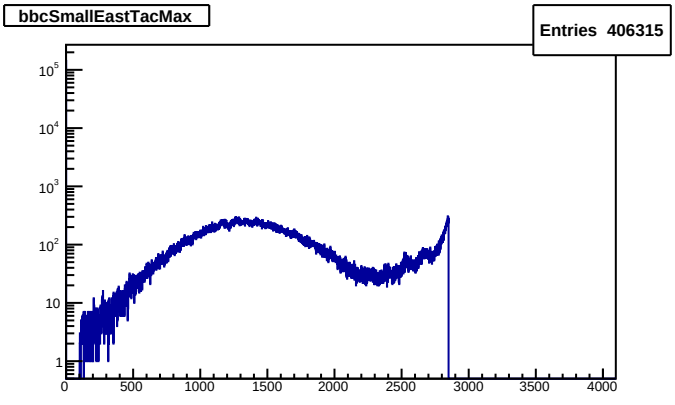

EQ3 QTB
Entries 3.308546e+07
TDC
QT Input Channel

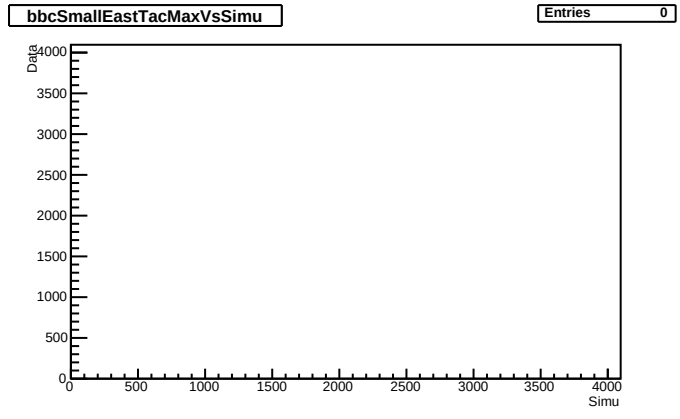

EQ3 QTC
Entries 3.900624e+07
ADC
QT Input Channel


EQ3 QTC
Entries 3.900624e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 406315


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 406315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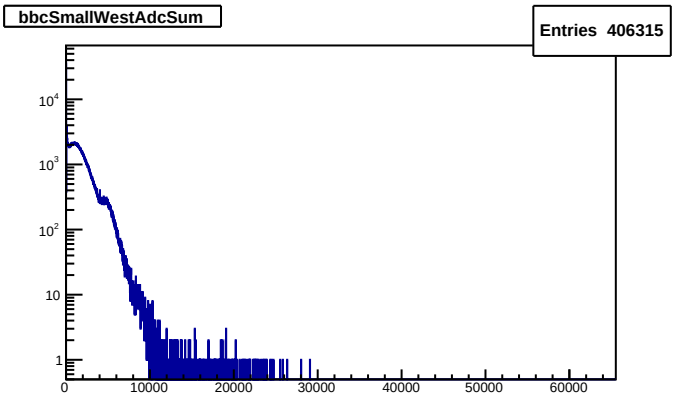
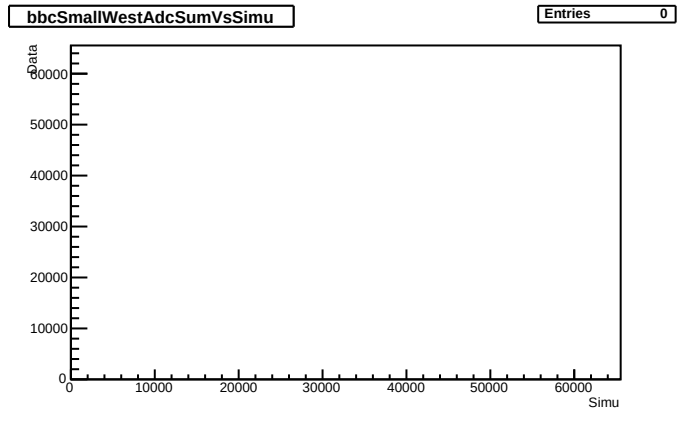
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 406315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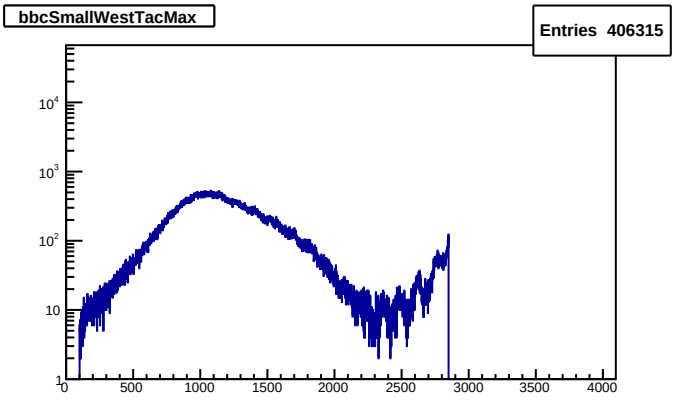
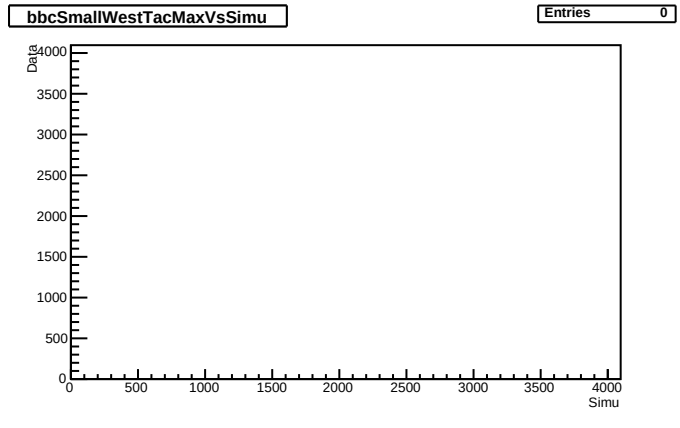
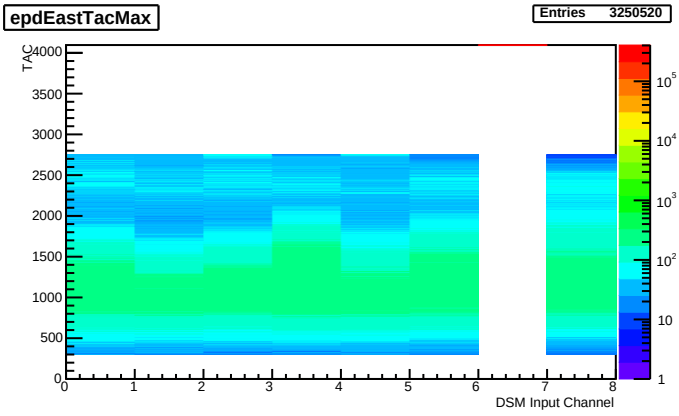
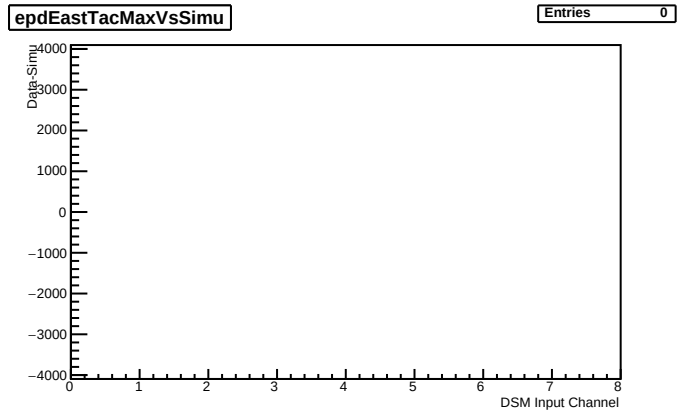
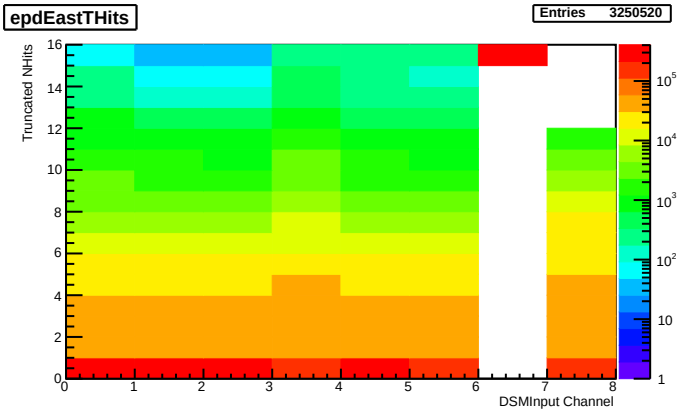
Entries 0
Data
Simu

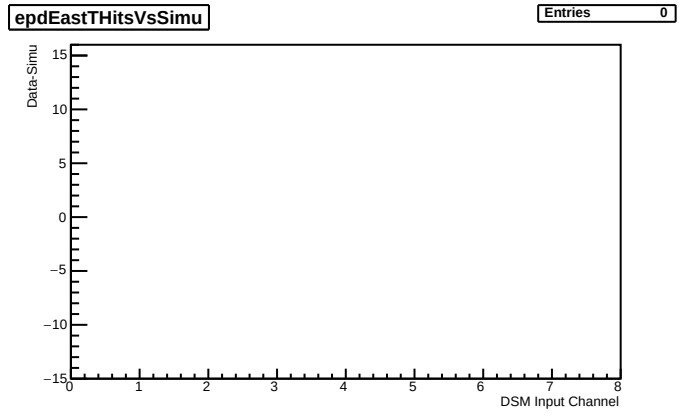

bbcSmallWestTacMax
Entries 406315


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 3250520
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3250520
Truncated NHits
DSMInput Channel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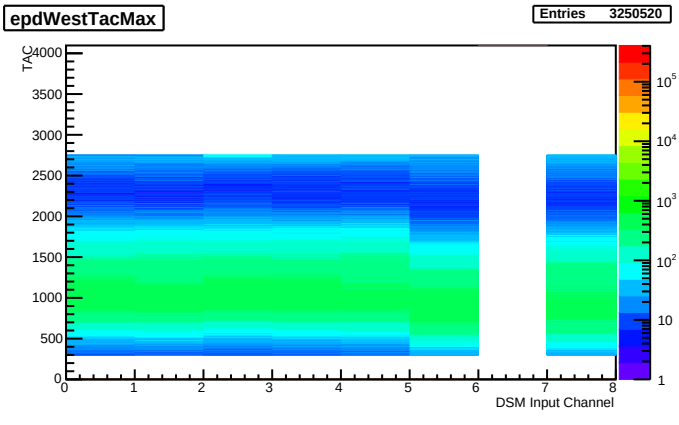
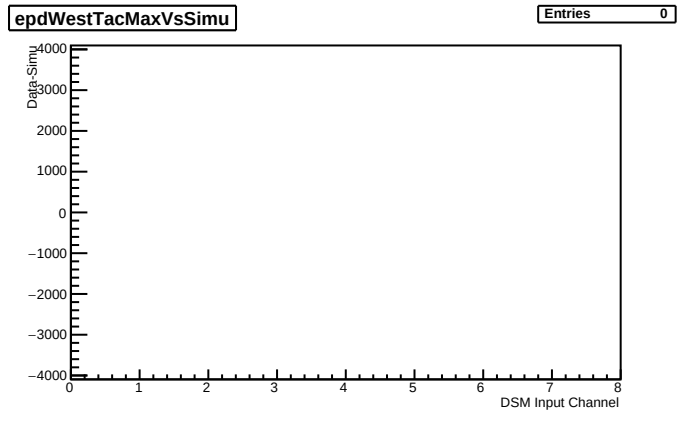
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 3250520
TAC
DSM Input Channel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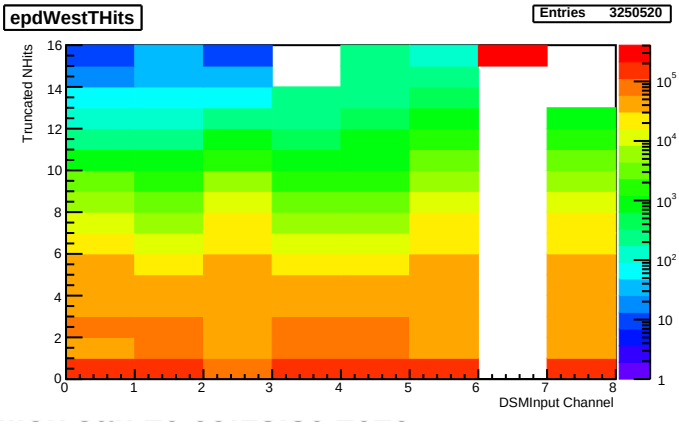
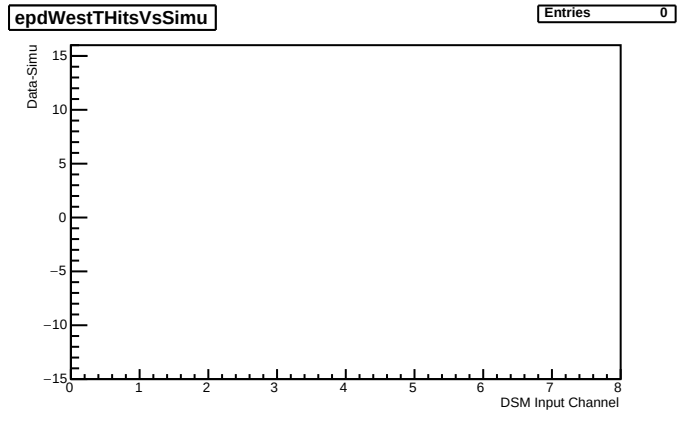
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 3250520
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
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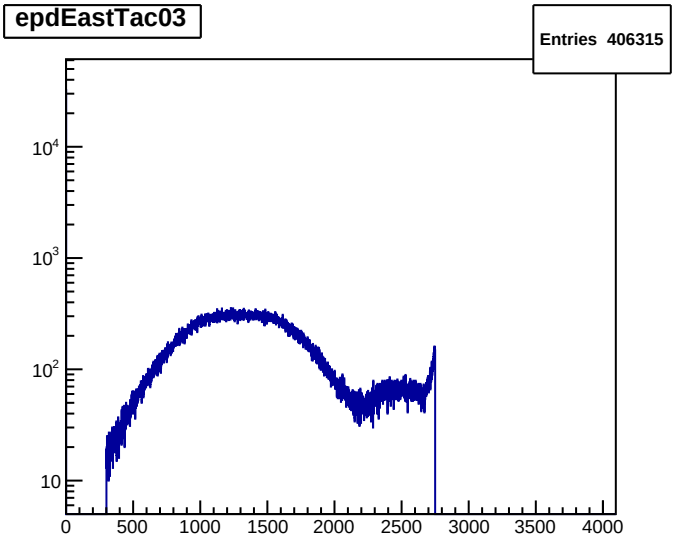
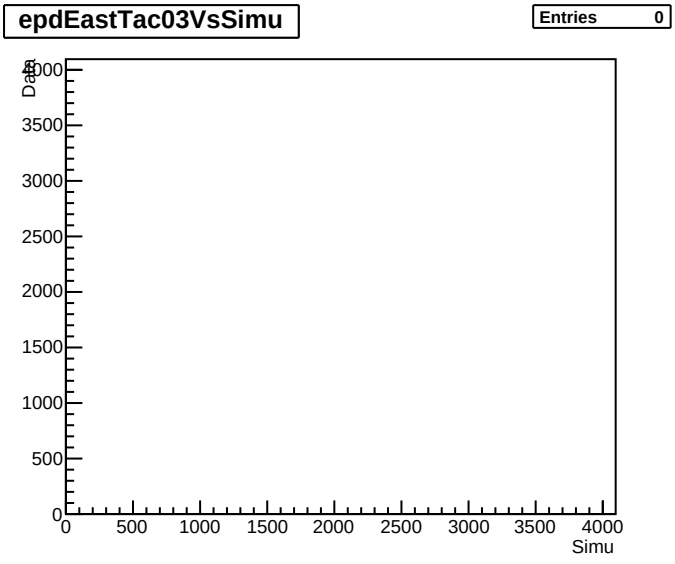
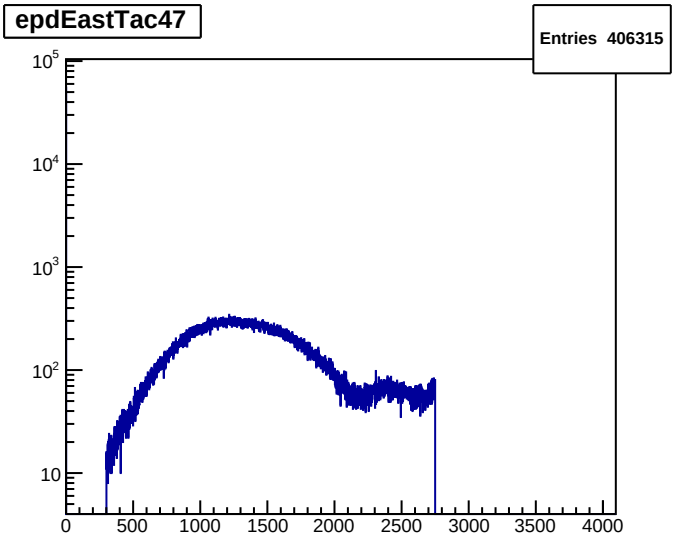
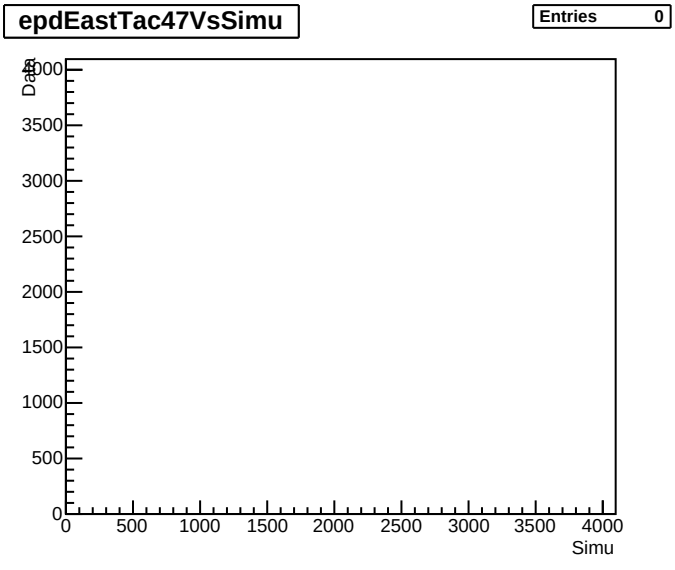
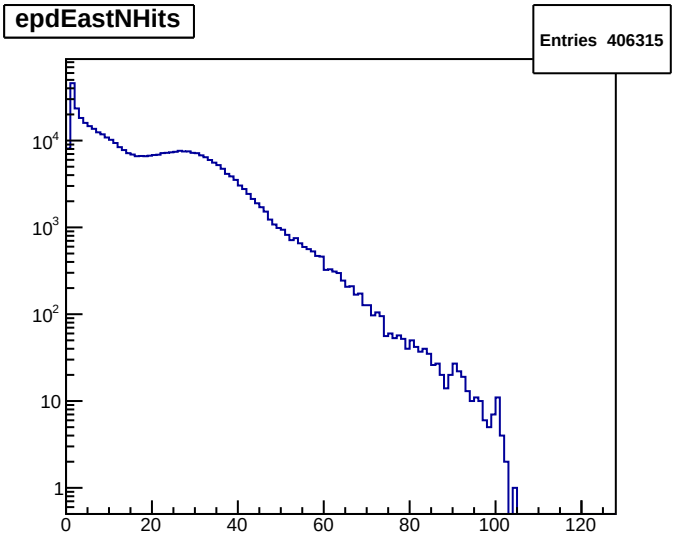
Data-Simu
DSM Input Channel

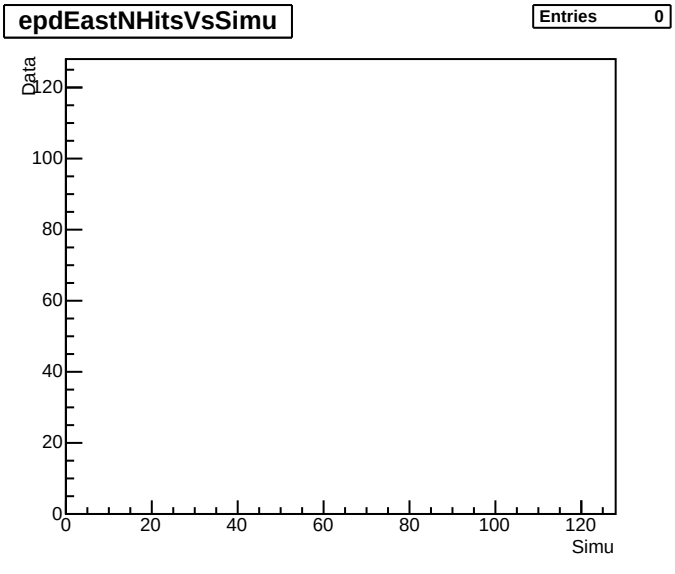

epdEastTac03
Entries 406315


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 406315


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 406315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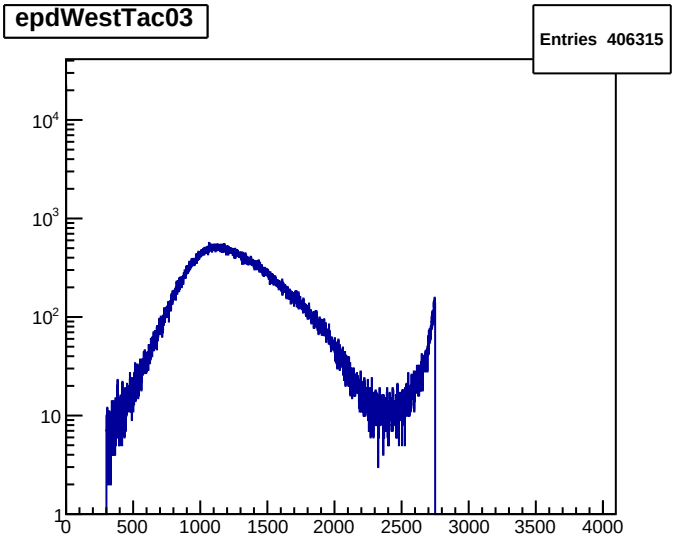
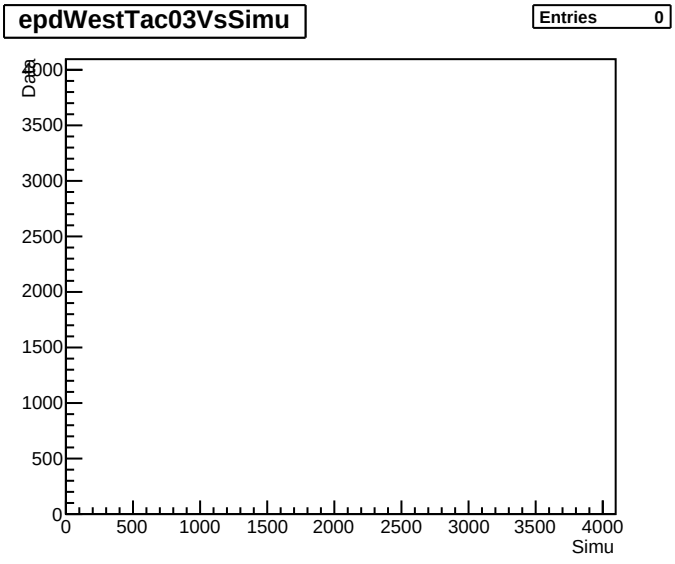
Entries 0
Data
Simu


epdWestTac03
Entries 406315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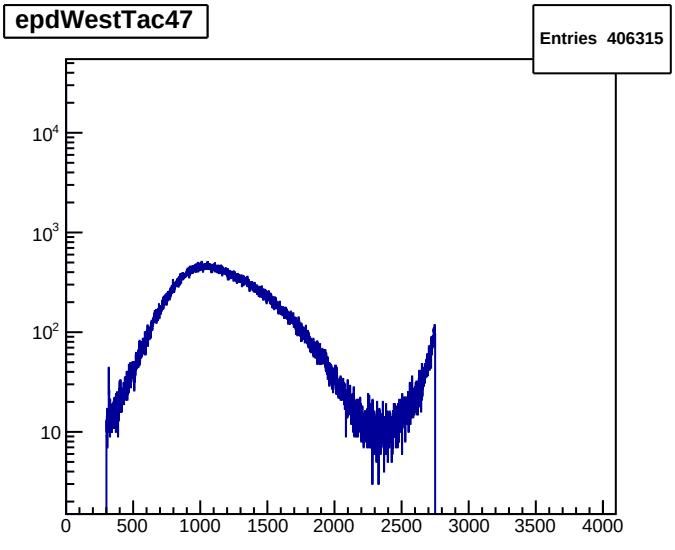
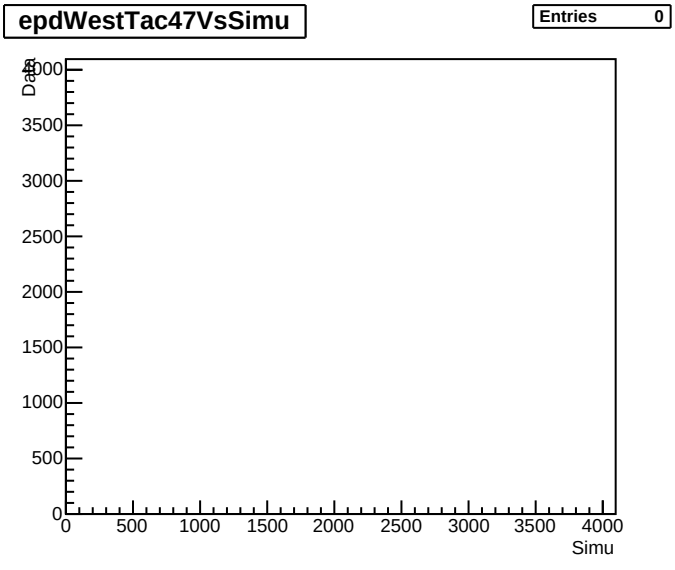
Entries 0
Data
Simu


epdWestTac47
Entries 406315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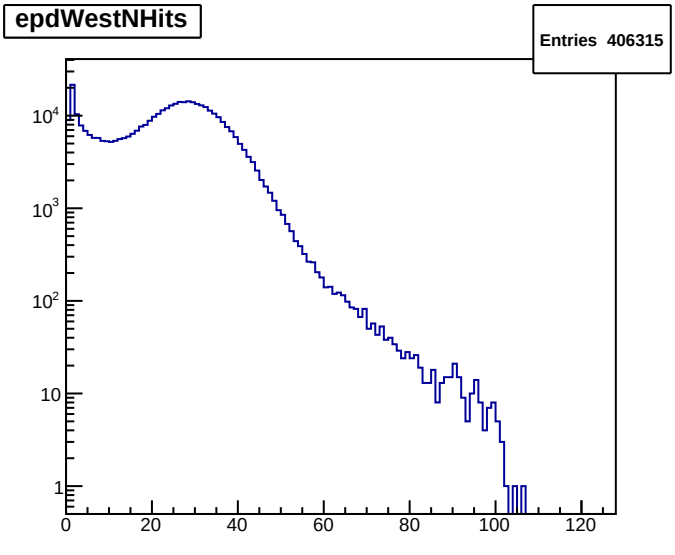
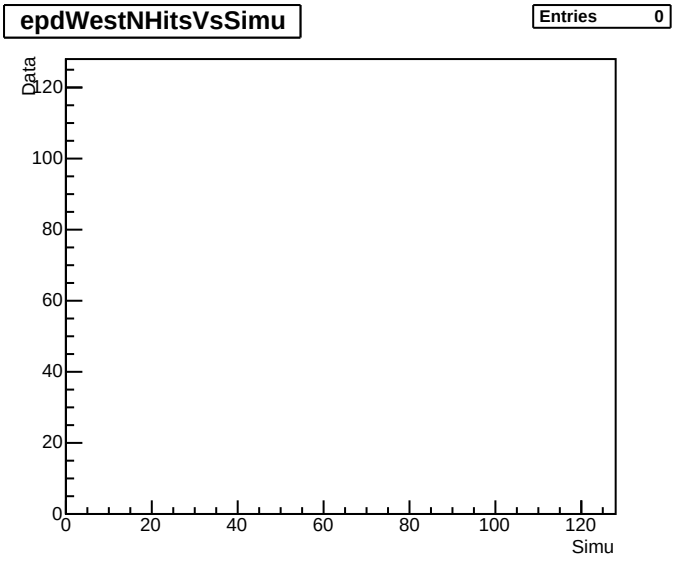
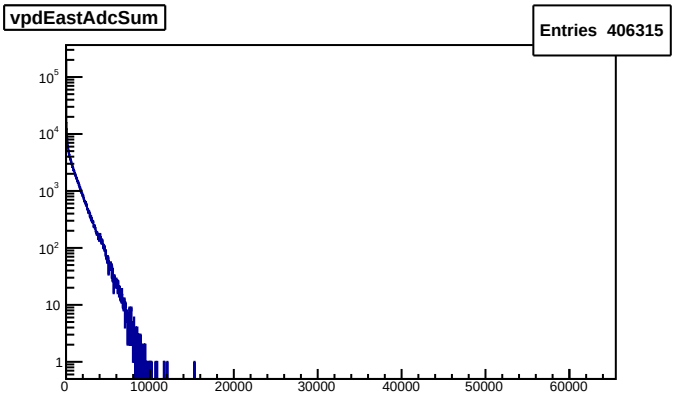
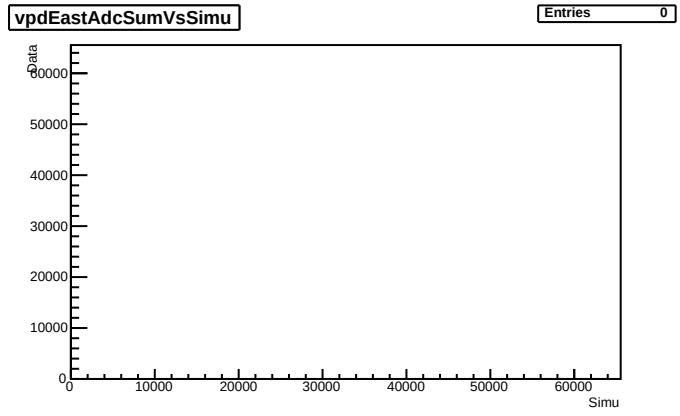
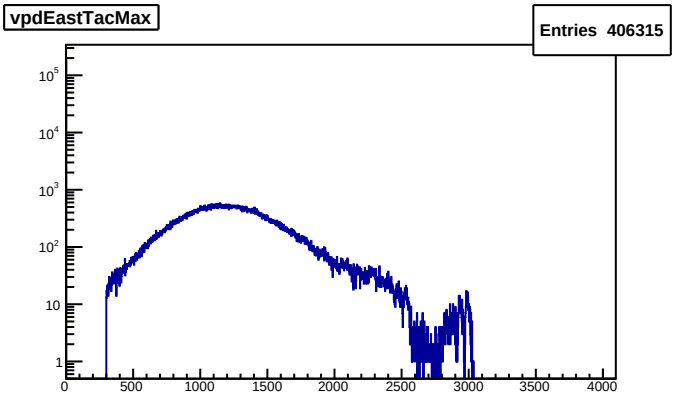
Entries 0
Data
Simu

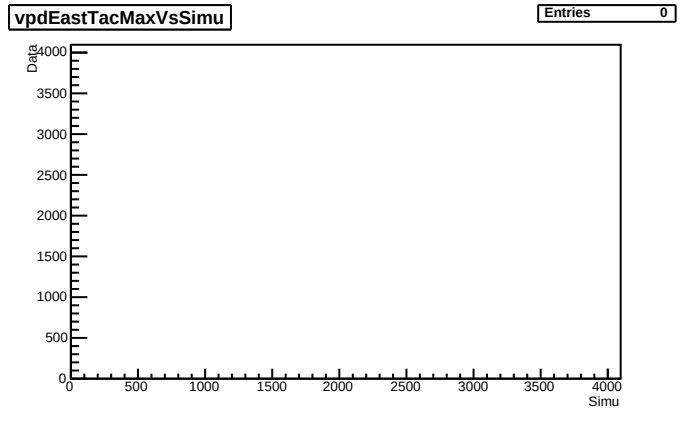

epdWestNHits
Entries 406315

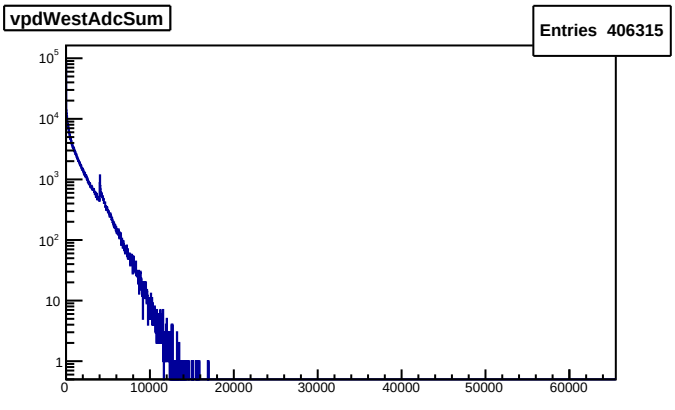

epdWestNHitsVsSimu
Entries 0
Data
Simu

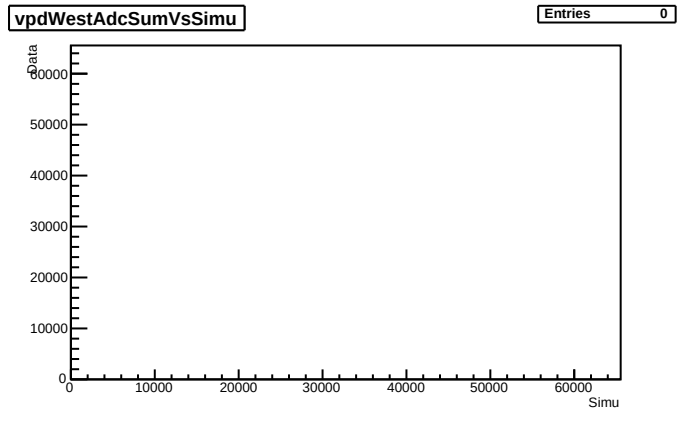

vpdEastAdcSum
Entries 406315

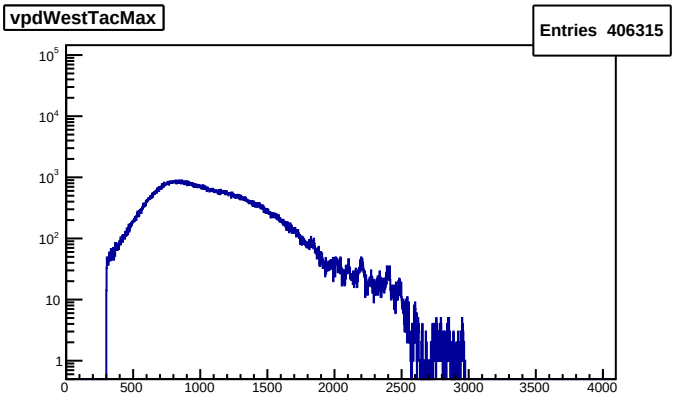

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

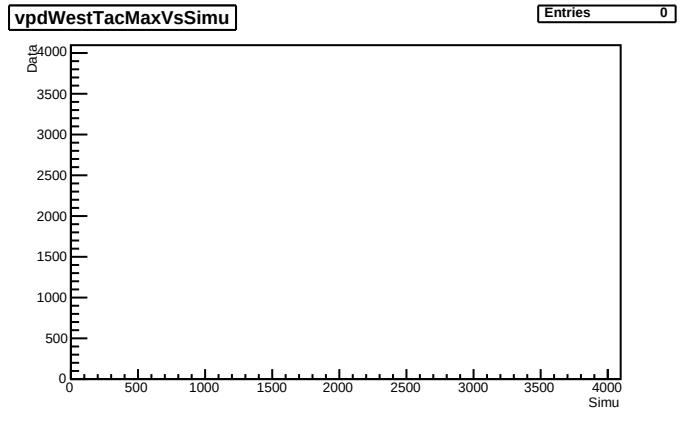

vpdEastTacMax
Entries 406315

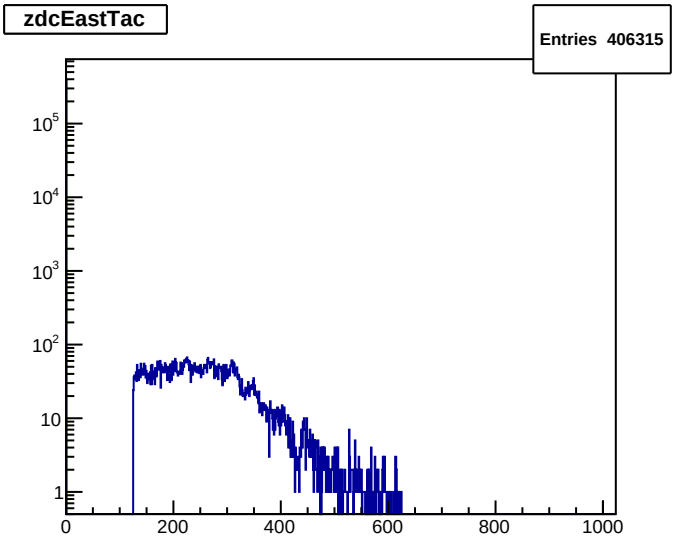

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

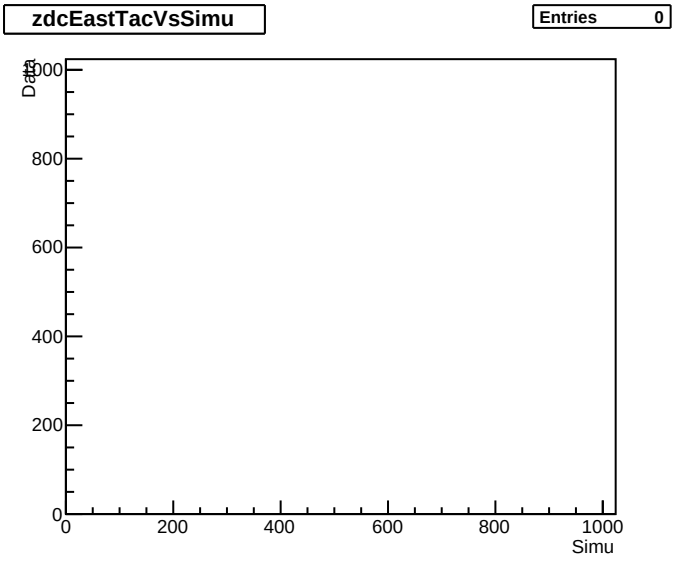

vpdWestAdcSum
Entries 406315

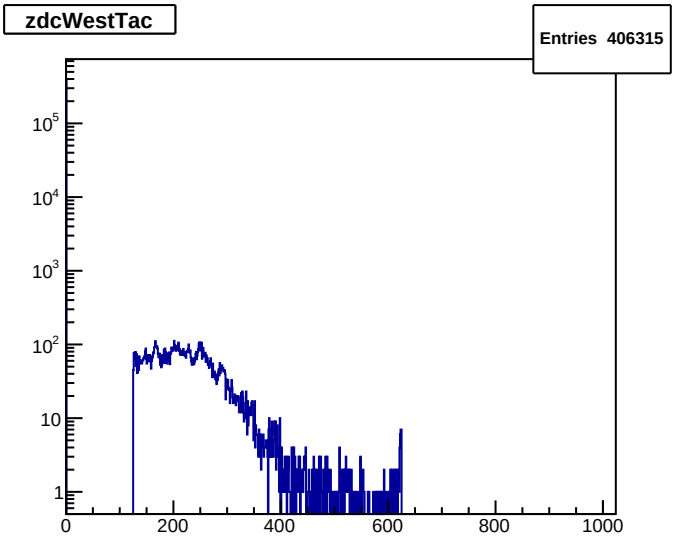

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

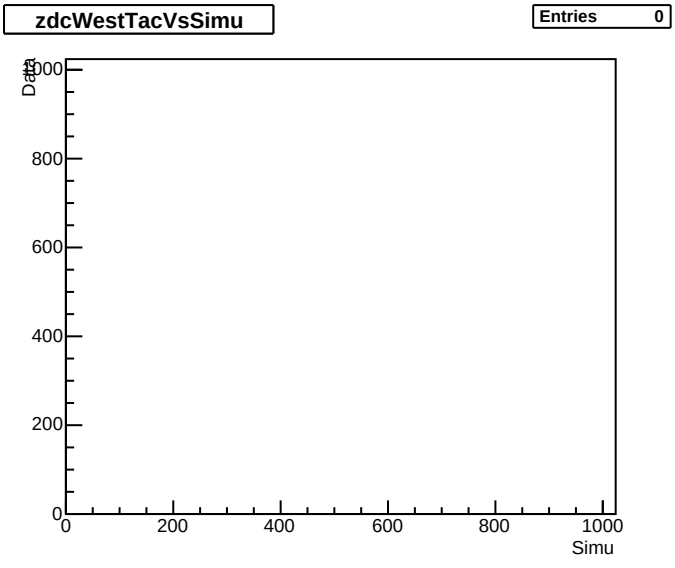

vpdWestTacMax
Entries 406315

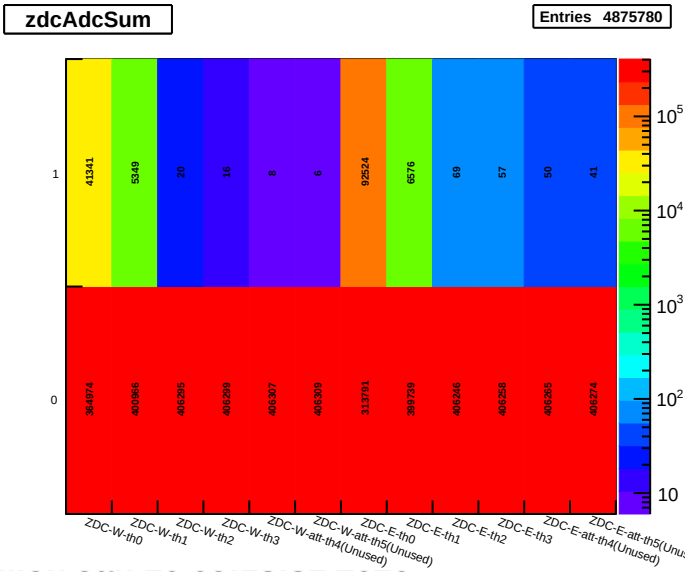

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

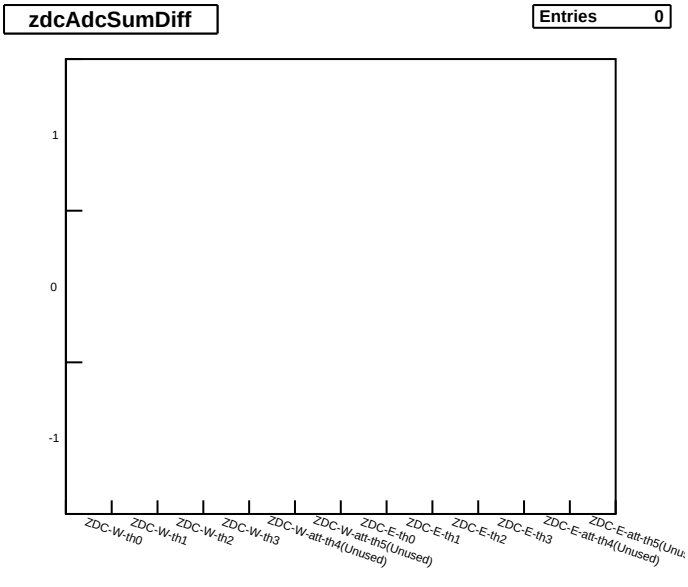

zdcEastTac
Entries 406315
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

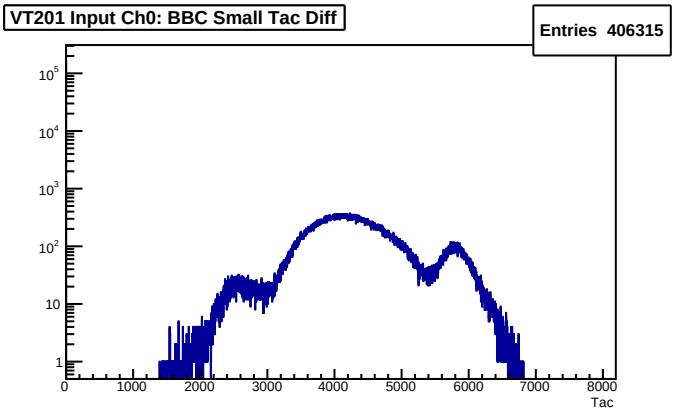

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

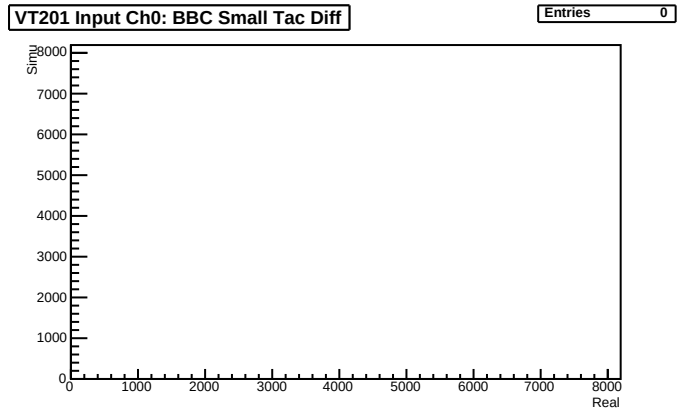

zdcWestTac
Entries 406315
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

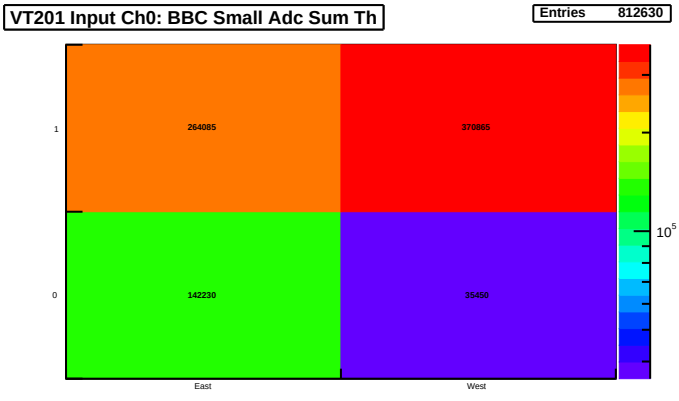

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

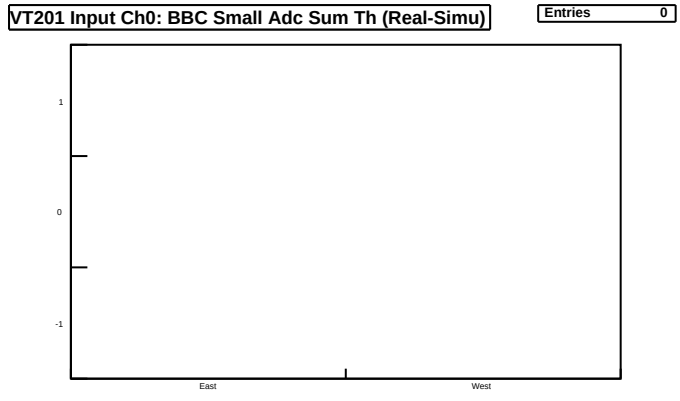

zdcAdcSum
Entries 4875780
1
0
41341
5349
20
16
8
6
92524
6576
69
57
50
41
364974
400966
406295
406299
406307
406309
313791
399739
406246
406258
406265
406274
10^5
10^4
10^3
10^2
10
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

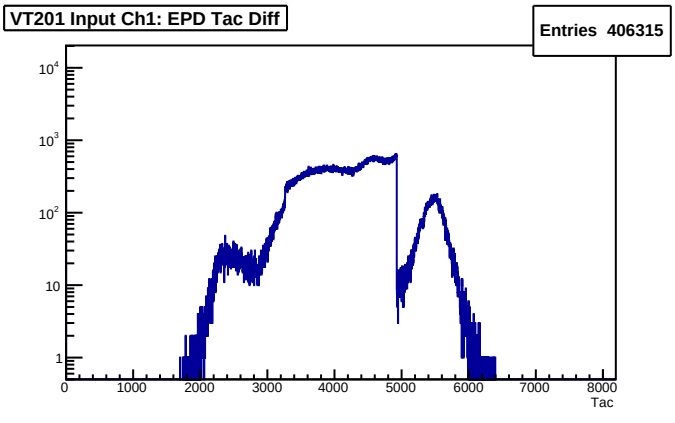

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

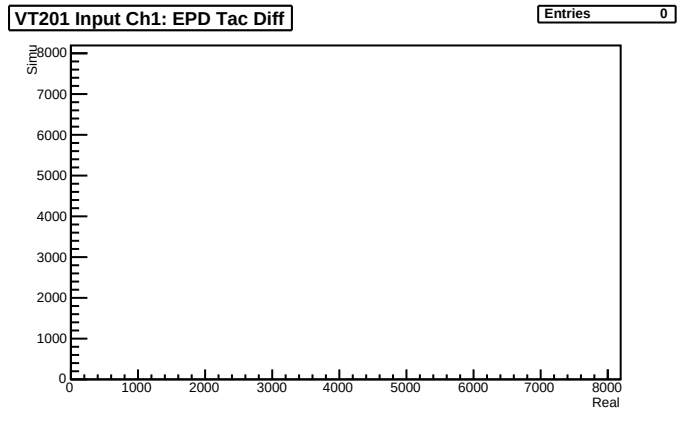

VT201 Input Ch0: BBC Small Tac Diff
Entries 406315
Tac

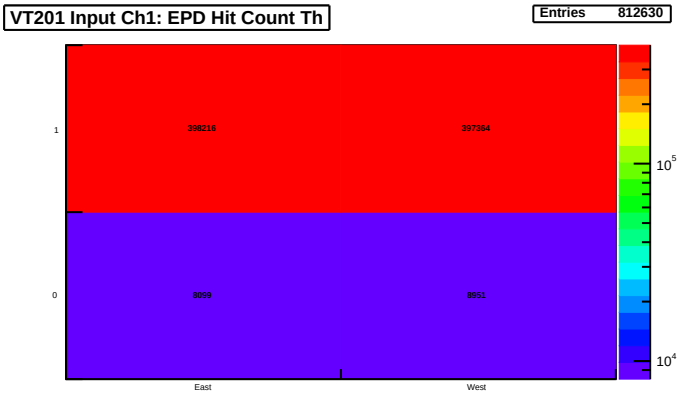

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

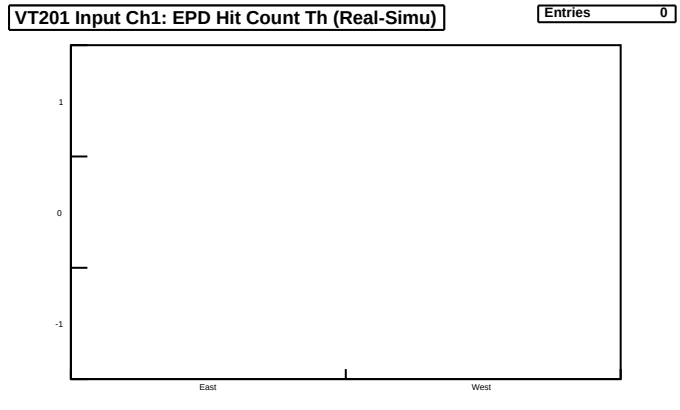

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 812630
264085
370865
142230
35450
East
West

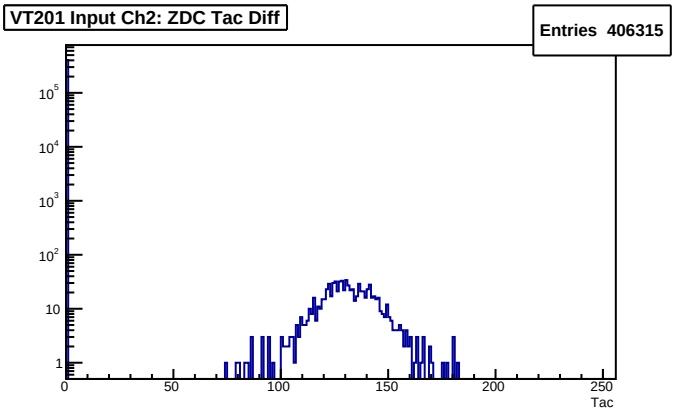

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

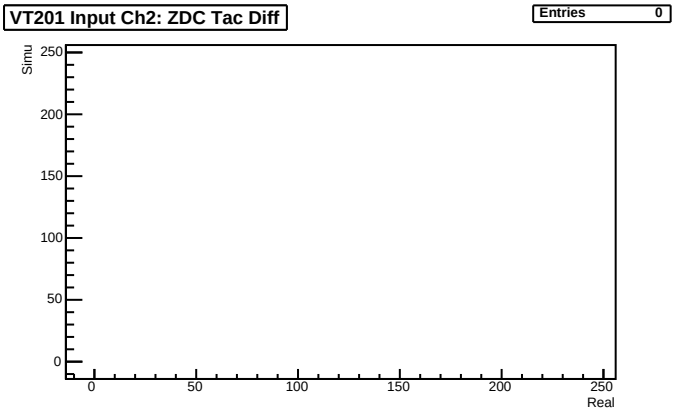

VT201 Input Ch1: EPD Tac Diff
Entries 406315
Tac

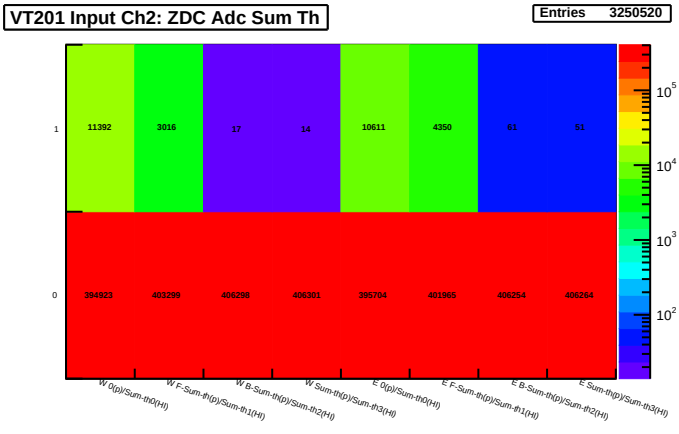

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

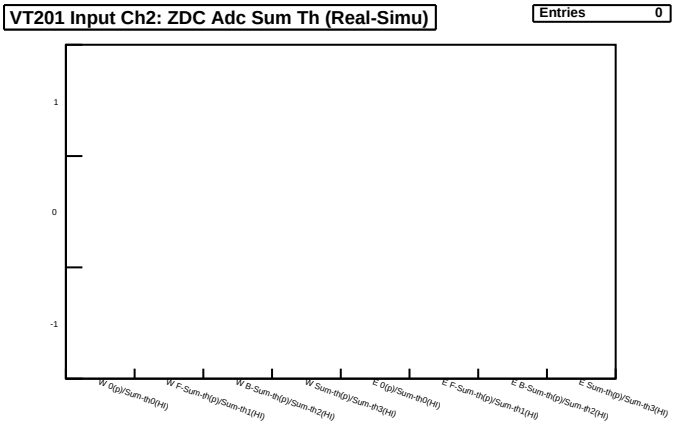

VT201 Input Ch1: EPD Hit Count Th
Entries 812630
398216
397364
8099
8951
East
West

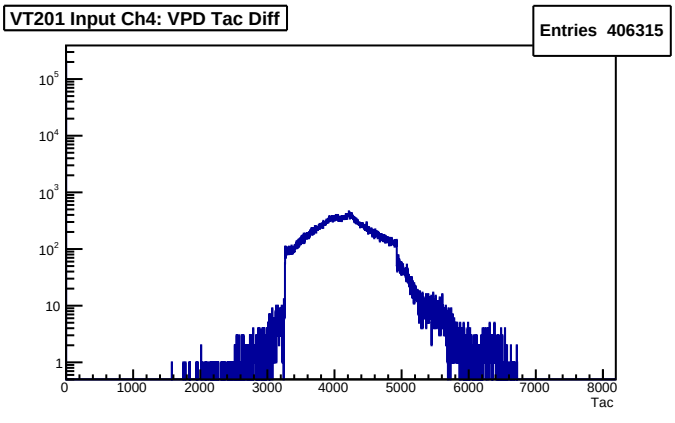

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

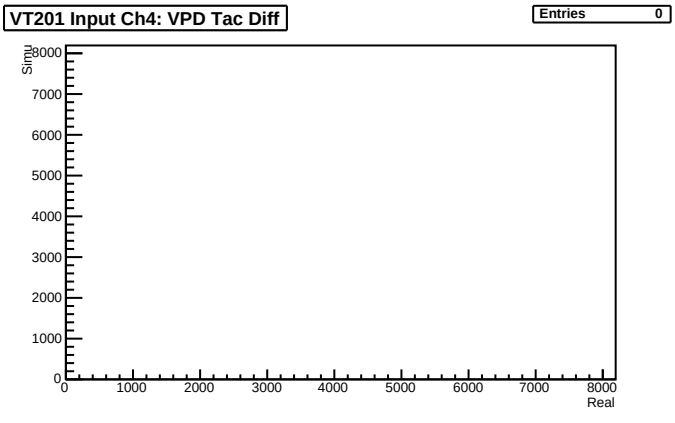

VT201 Input Ch2: ZDC Tac Diff
Entries 406315
Tac

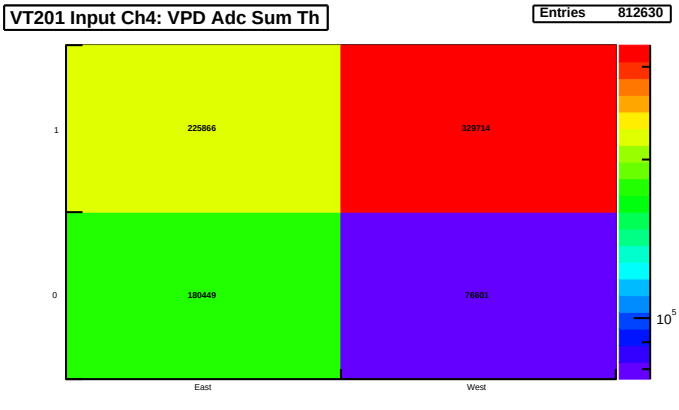

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

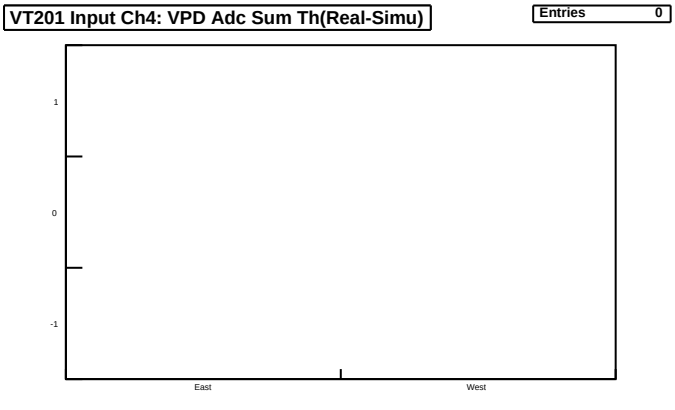

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3250520
11392
3016
17
14
10611
4350
61
51
394923
403299
406298
406301
395704
401965
406254
406264
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

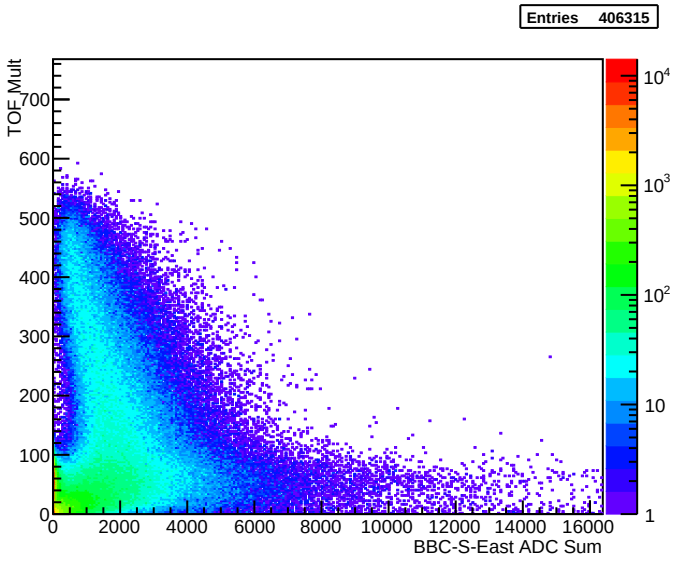

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

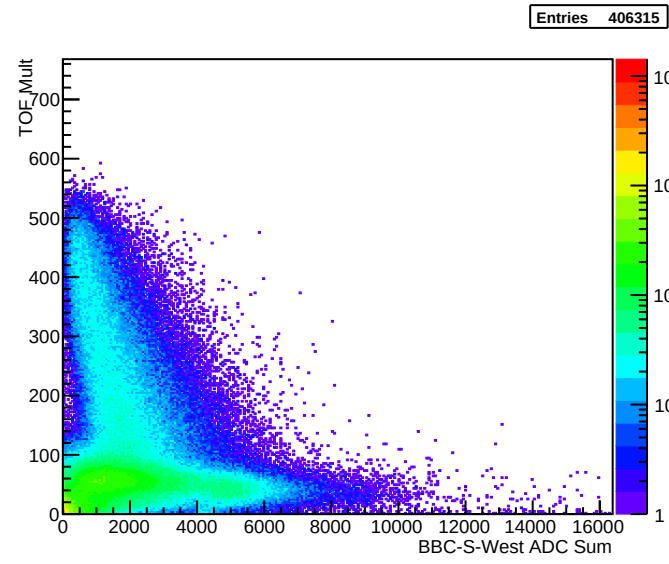

VT201 Input Ch4: VPD Tac Diff
Entries 406315
Tac

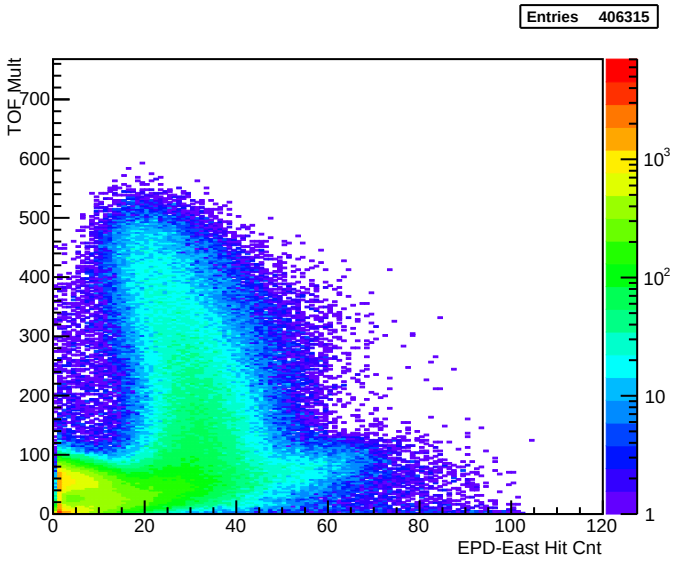

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

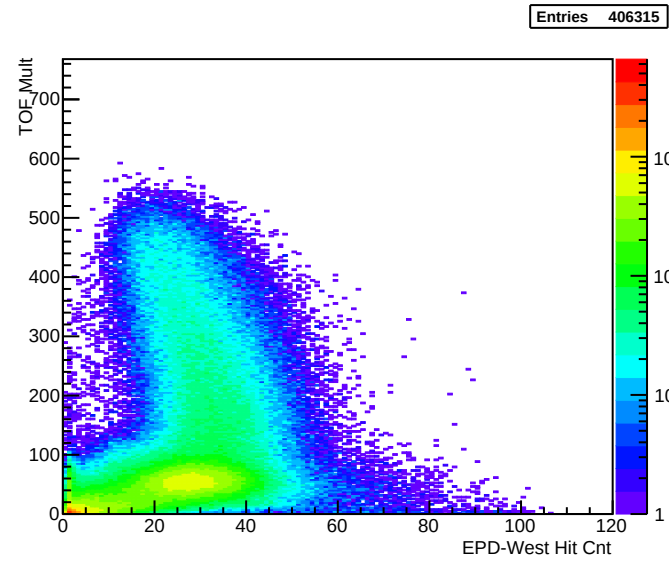

VT201 Input Ch4: VPD Adc Sum Th
Entries 812630
225866
329714
180449
76601
East
West

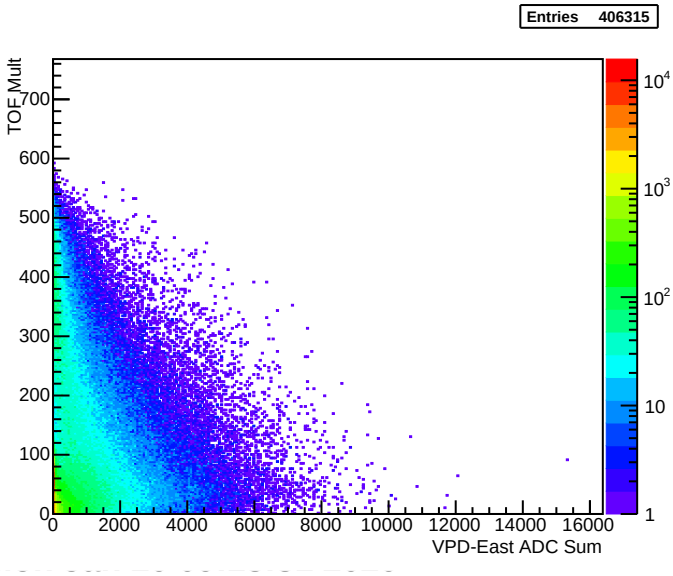

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

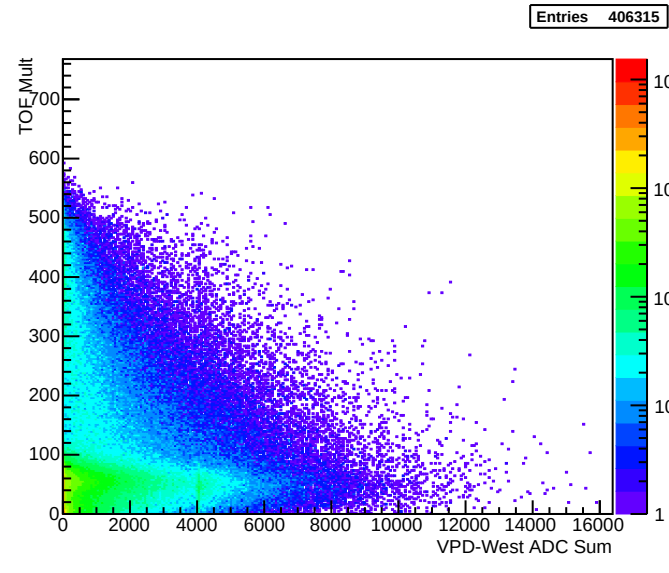

Entries 406315
TOF_Mult
BBC-S-East ADC Sum

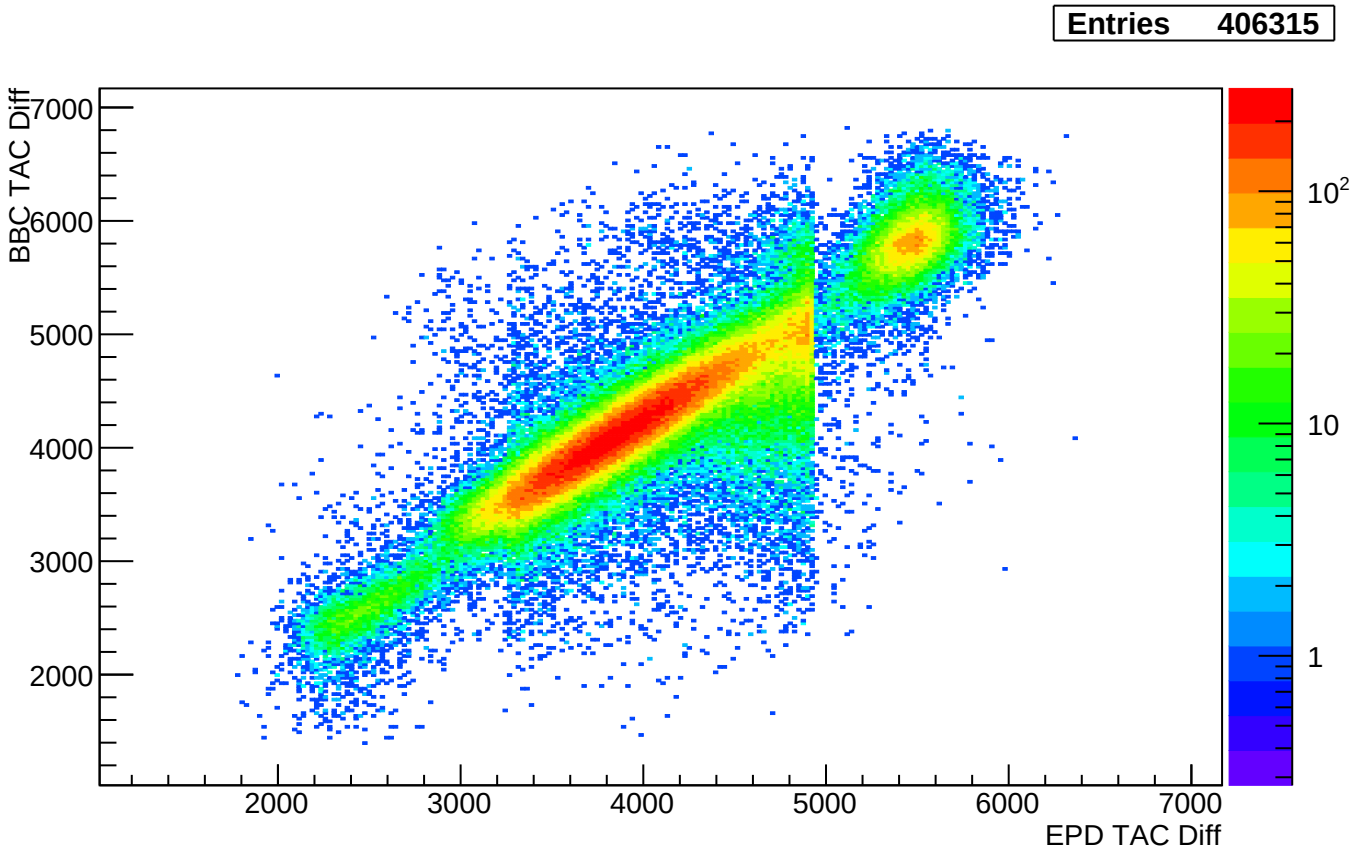

Entries 406315
TOF_Mult
BBC-S-West ADC Sum

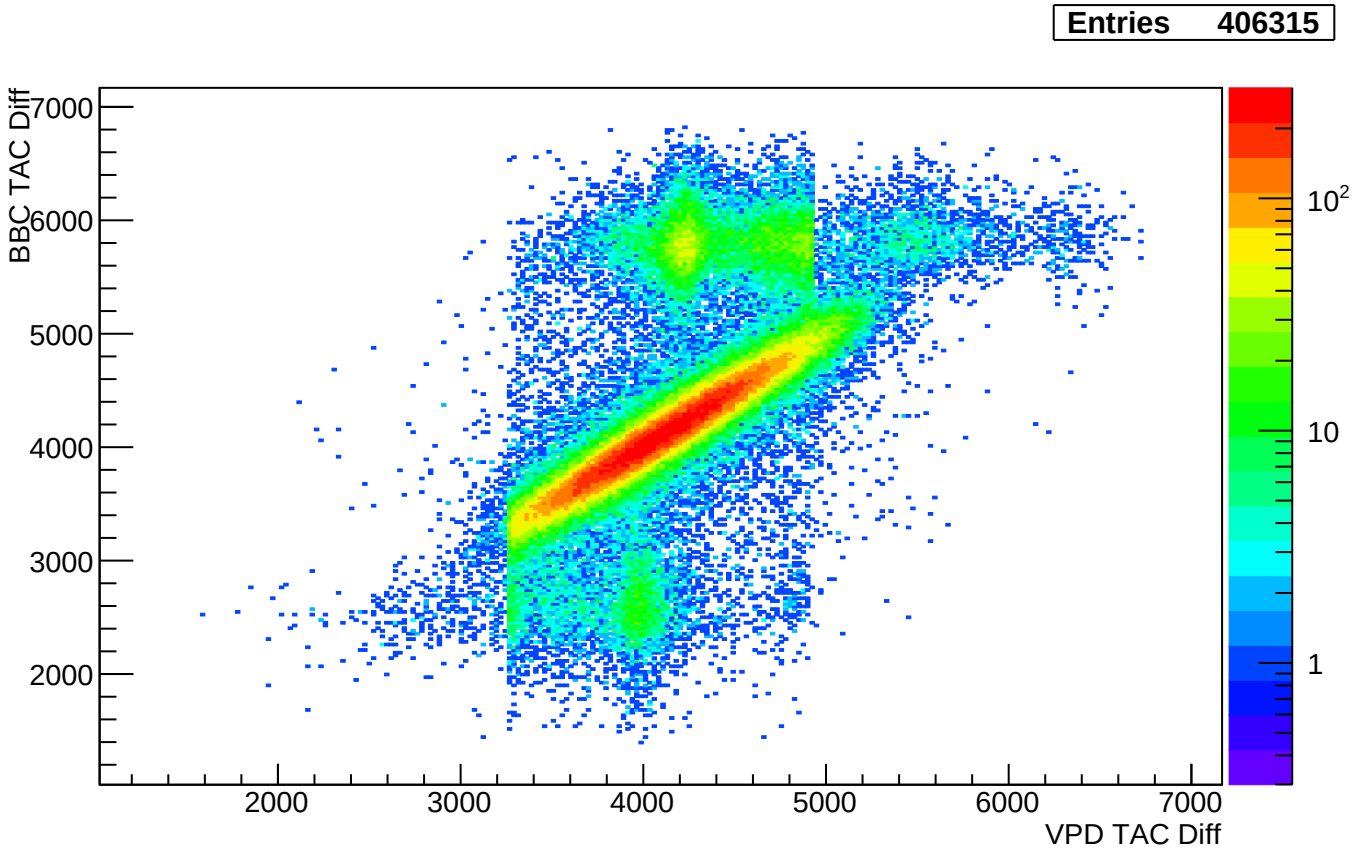

Entries 406315
TOF_Mult
EPD-East Hit Cnt

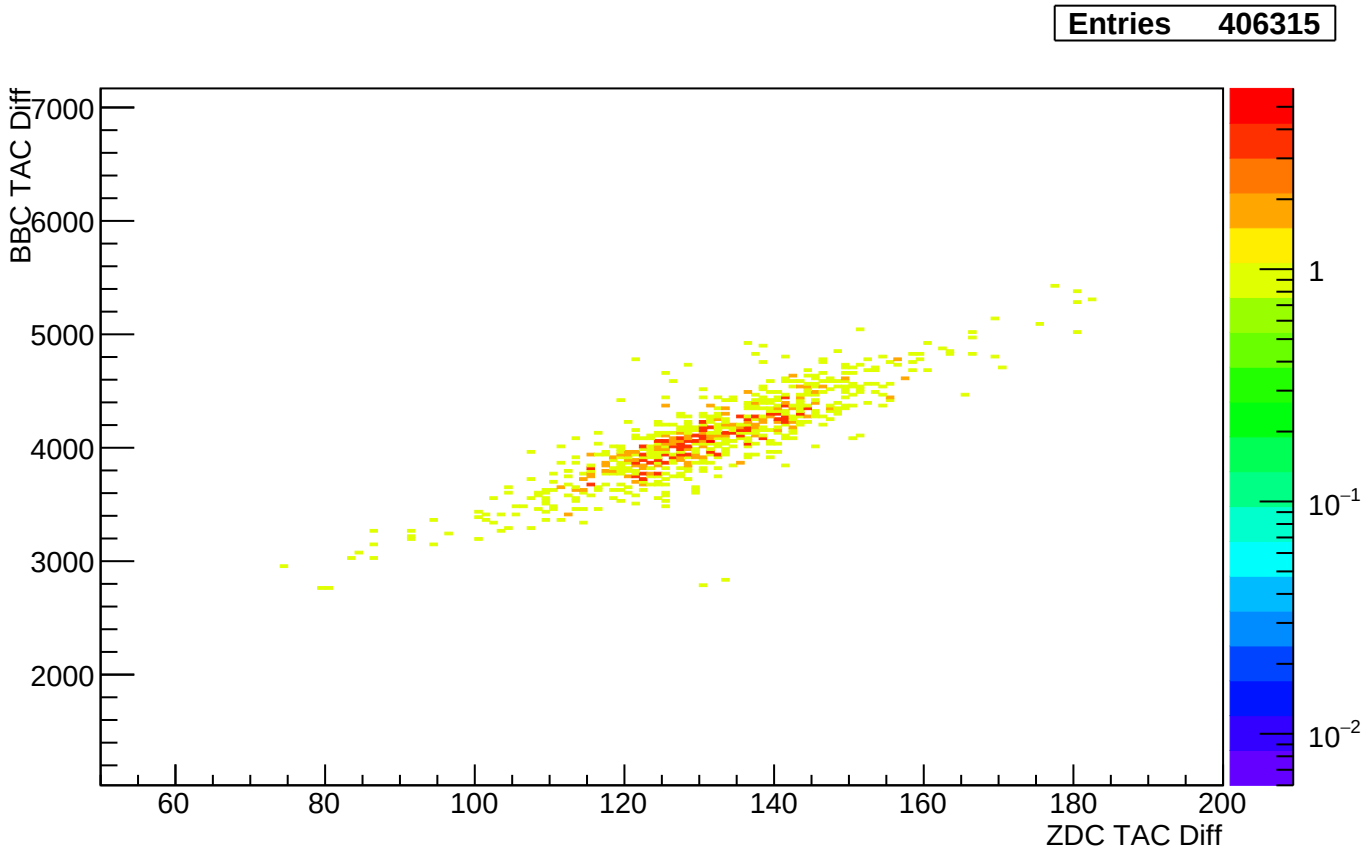

Entries 406315
TOF_Mult
EPD-West Hit Cnt

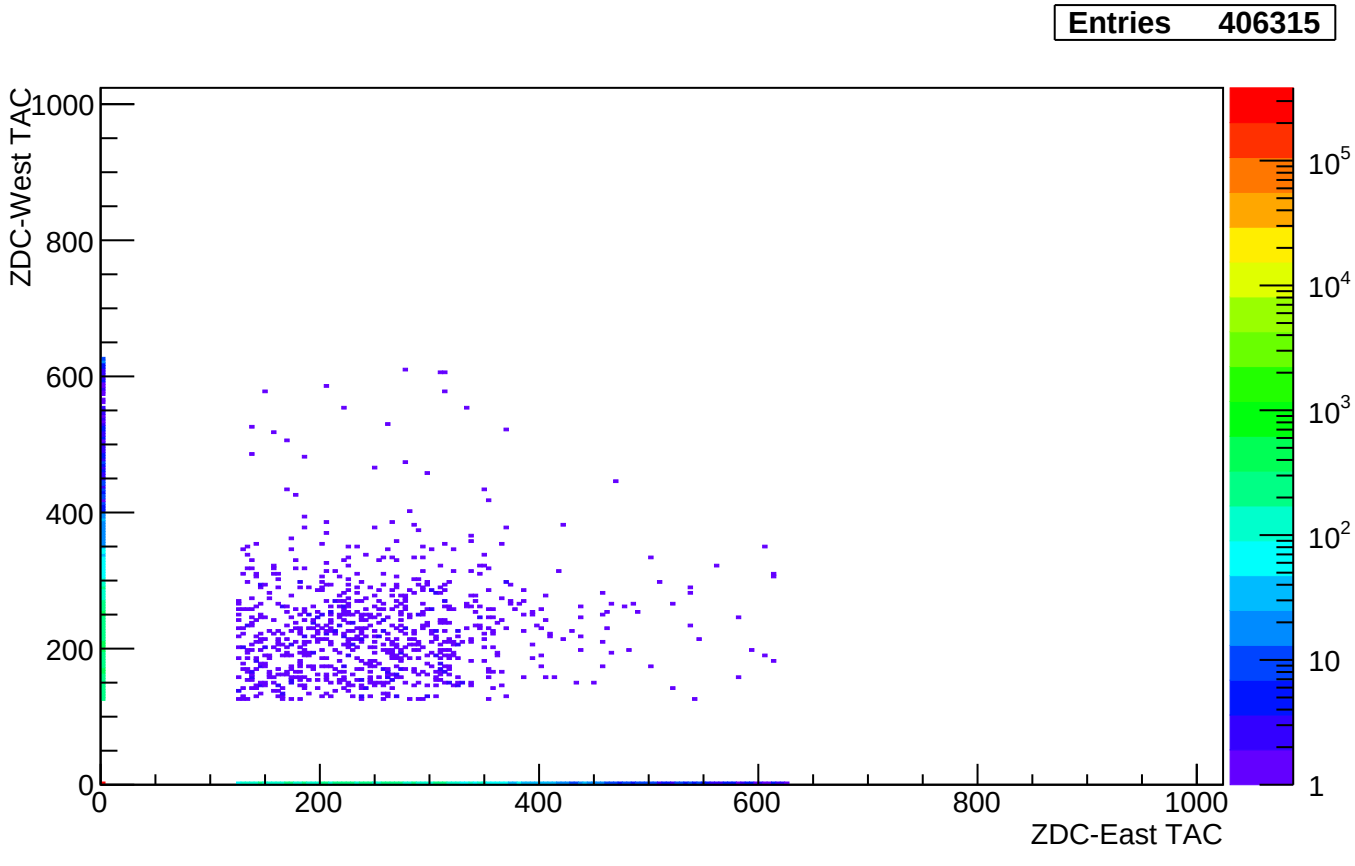

Entries 406315
TOF_Mult
VPD-East ADC Sum

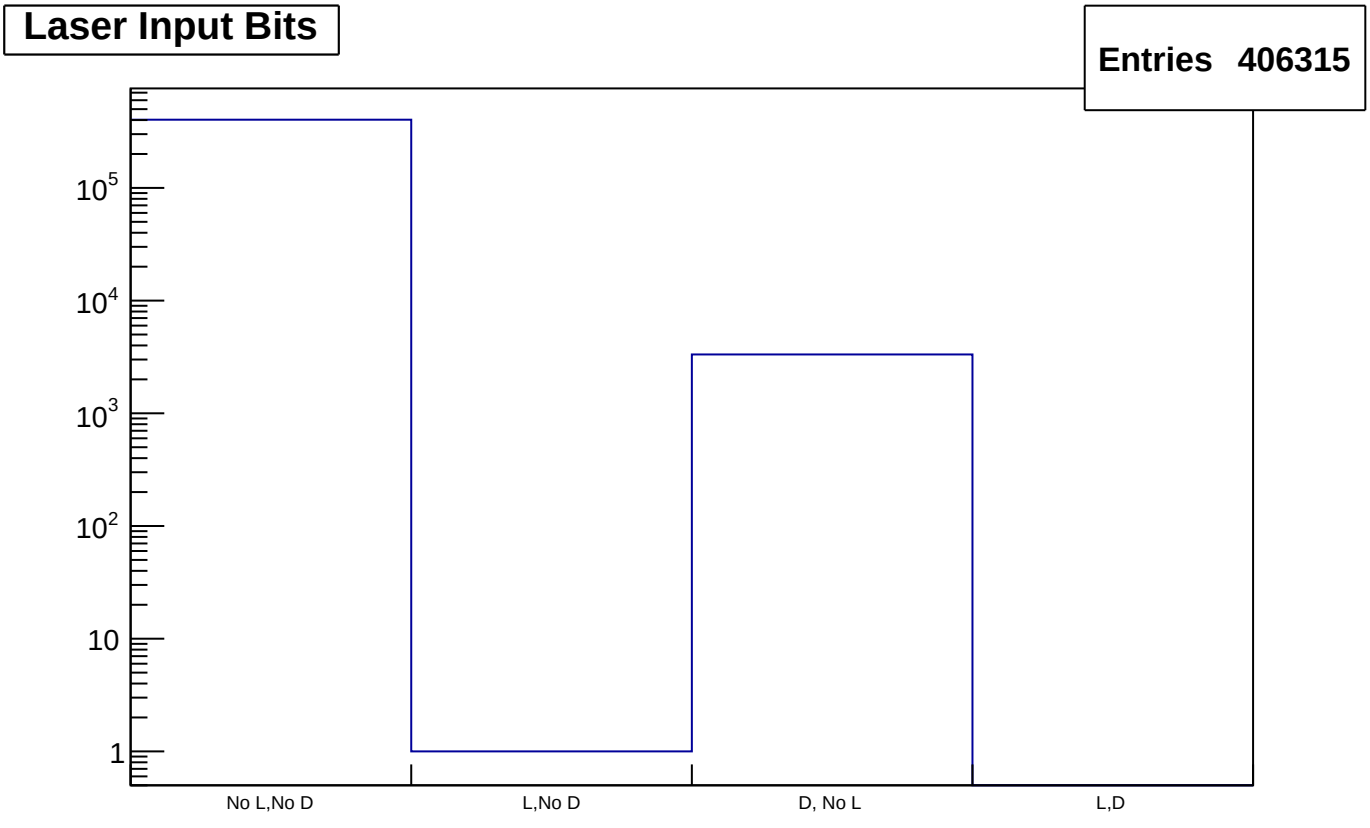

Entries 406315
TOF_Mult
VPD-West ADC Sum

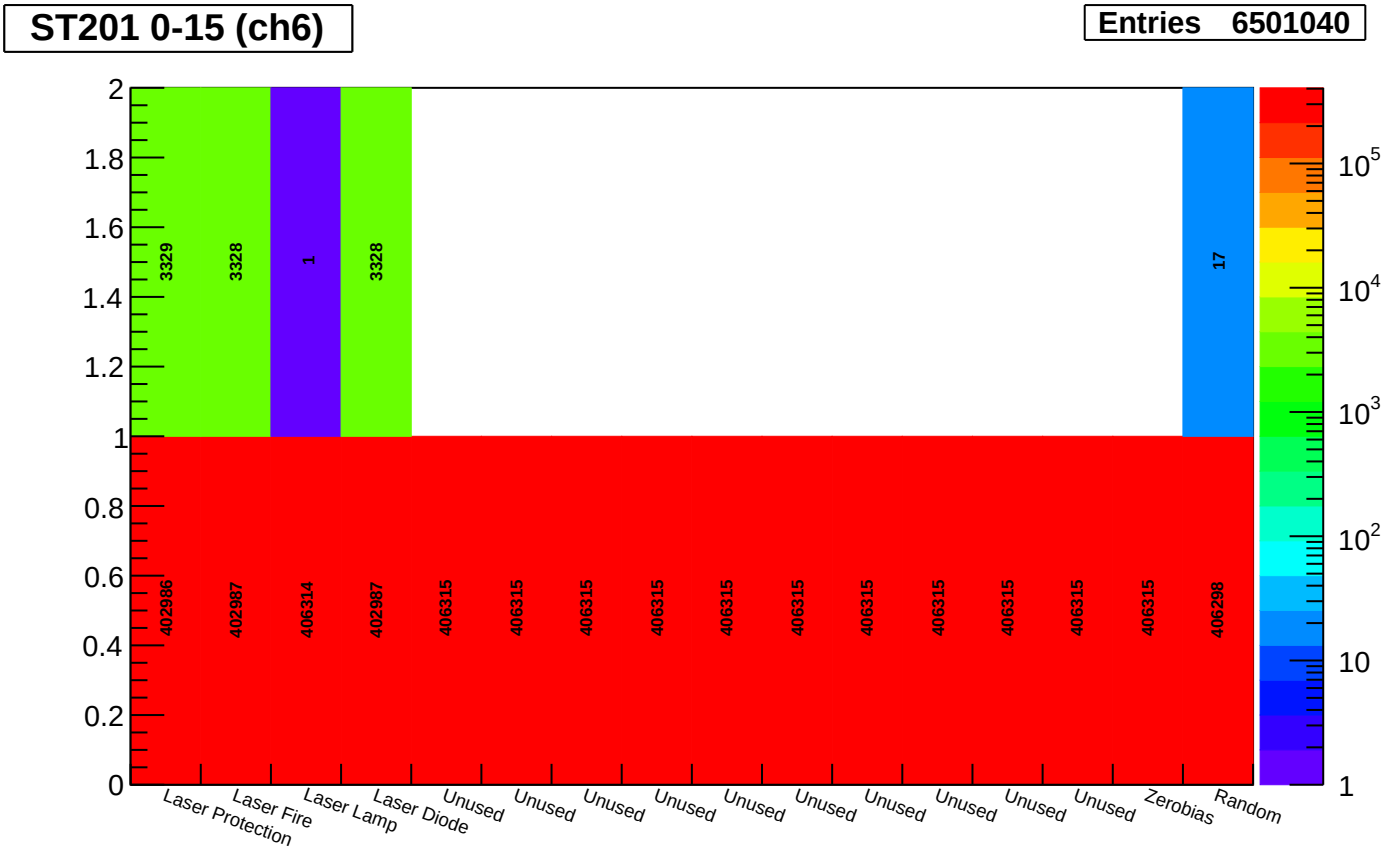

Entries 406315
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

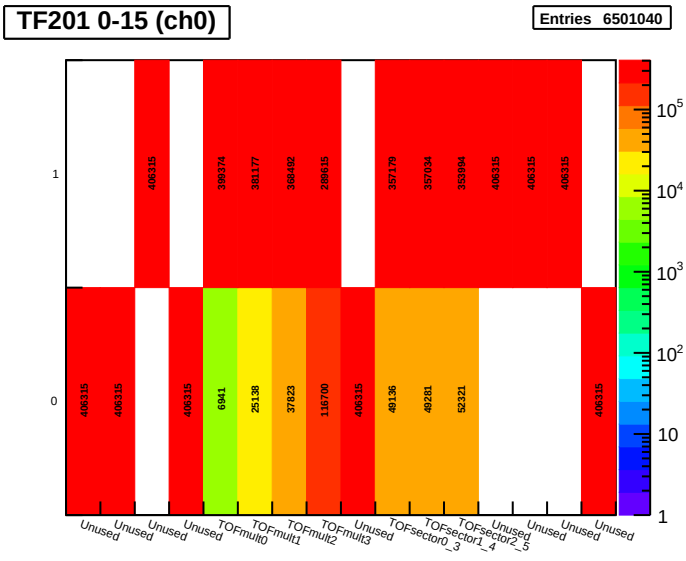

Entries 406315
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

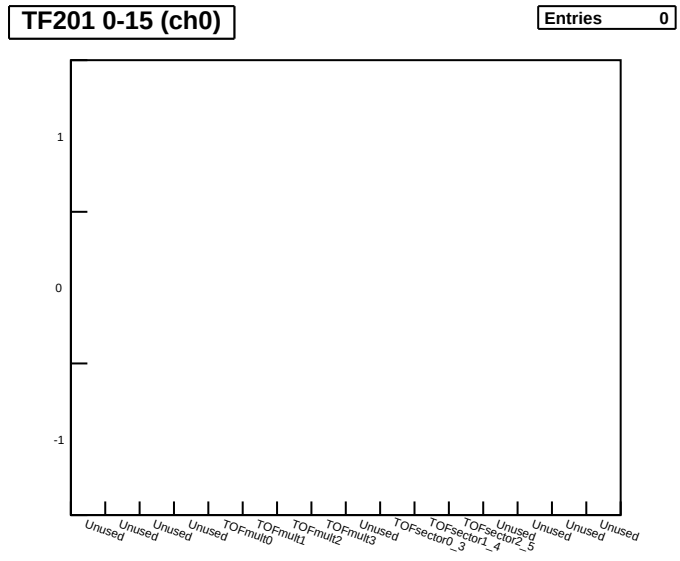

Entries 406315
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

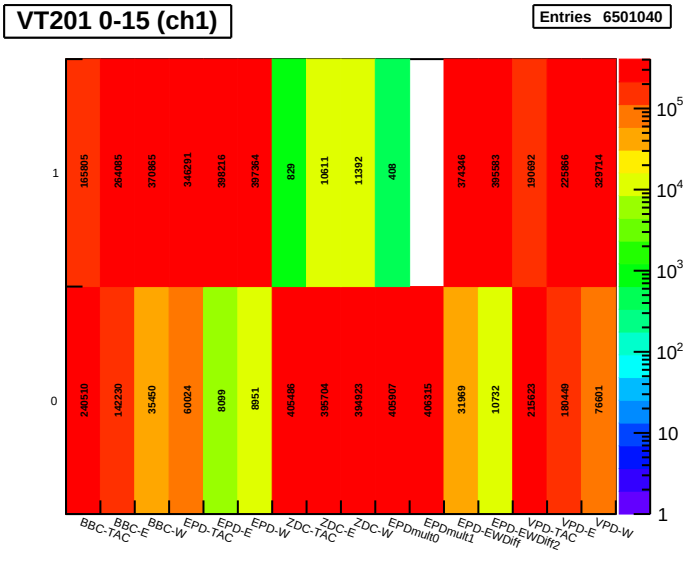

Entries 406315
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

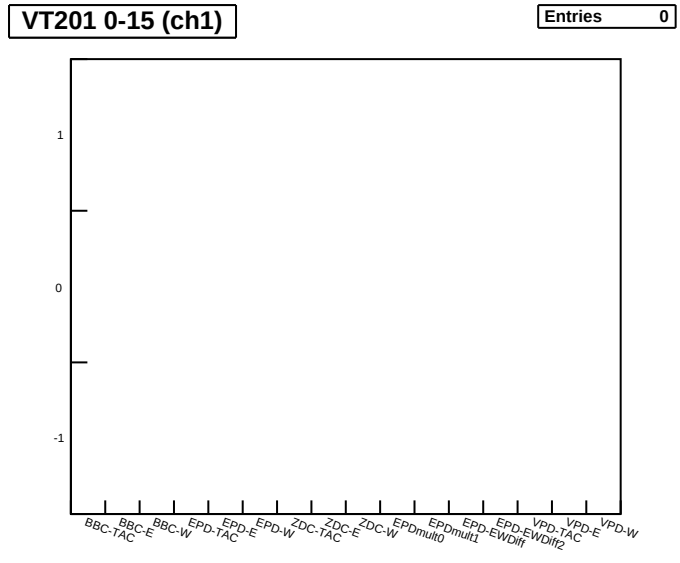

Laser Input Bits
Entries 406315
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

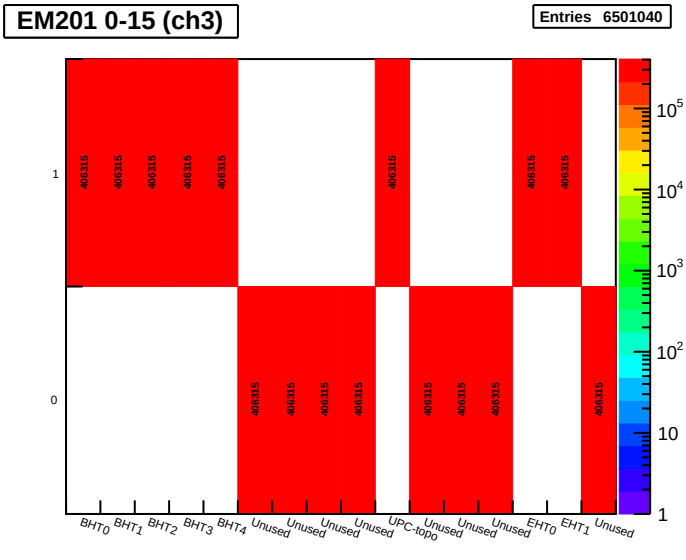

ST201 0-15 (ch6)
Entries 6501040
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3329
3328
1
3328
17
402986
402987
406314
402987
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406298
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

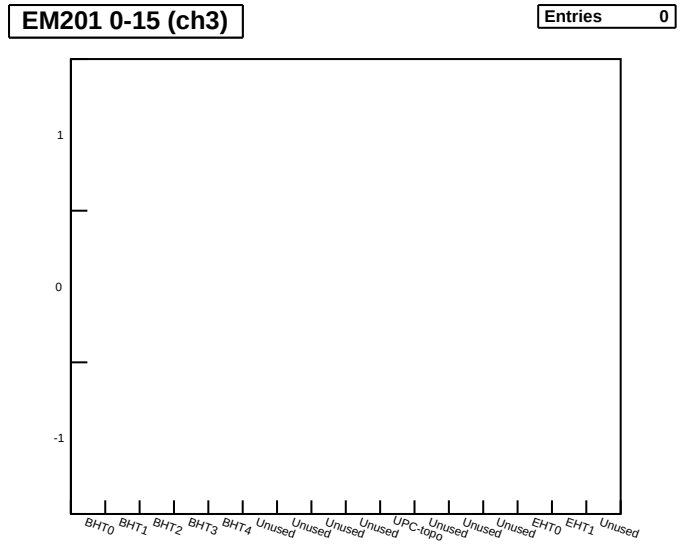

TF201 0-15 (ch0)
Entries 6501040
1
0
406315
390374
381177
368492
298615
357179
357034
353994
406315
406315
406315
406315
406315
406315
6941
25138
37823
116700
406315
49136
49281
52321
406315
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^5
10^4
10^3
10^2
10
1


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused


VT201 0-15 (ch1)
Entries 6501040
1
0
165805
264085
370855
346291
398216
397354
829
10611
11392
408
374346
395583
190692
225866
329714
240510
142230
35450
60024
8099
8951
406486
395704
394023
406907
406315
31969
10732
215623
180449
76601
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W
10^5
10^4
10^3
10^2
10
1


VT201 0-15 (ch1)
Entries 0
1
0
-1
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
EPDmult0
EPDmult1
EPD-EWDiff
EPD-EWDiff2
VPD-TAC
VPD-E
VPD-W


EM201 0-15 (ch3)
Entries 6501040
1
0
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
406315
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^5
10^4
10^3
10^2
10
1


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused