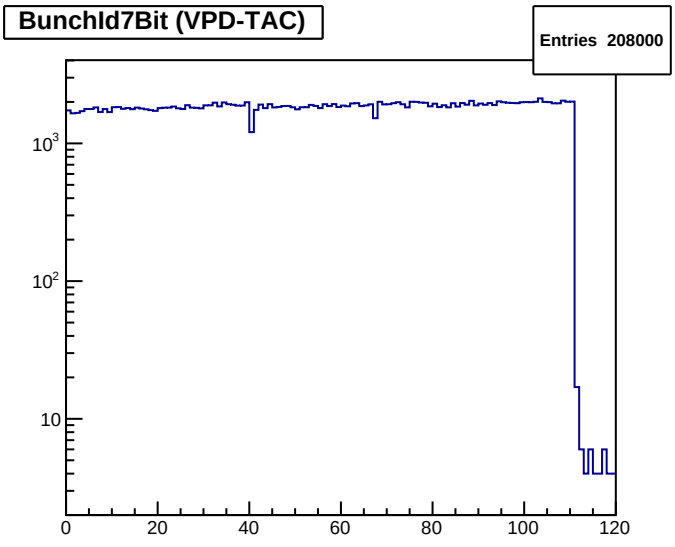
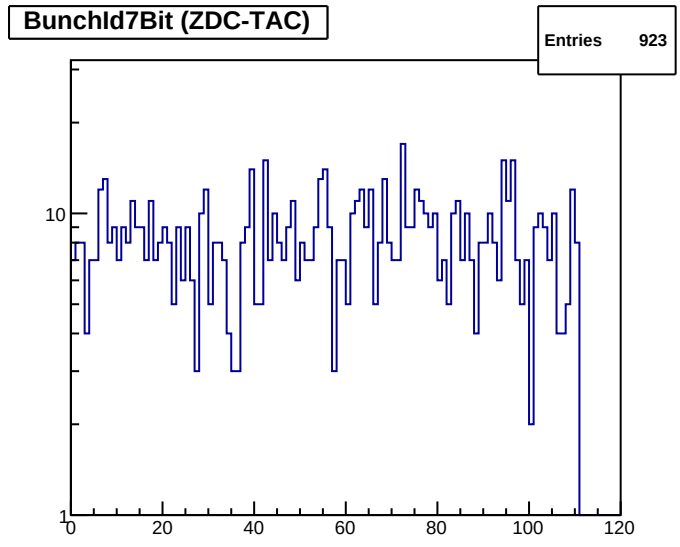
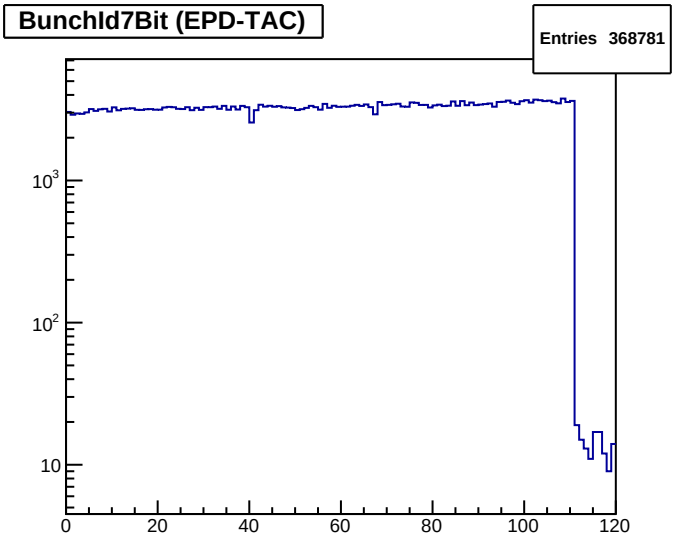
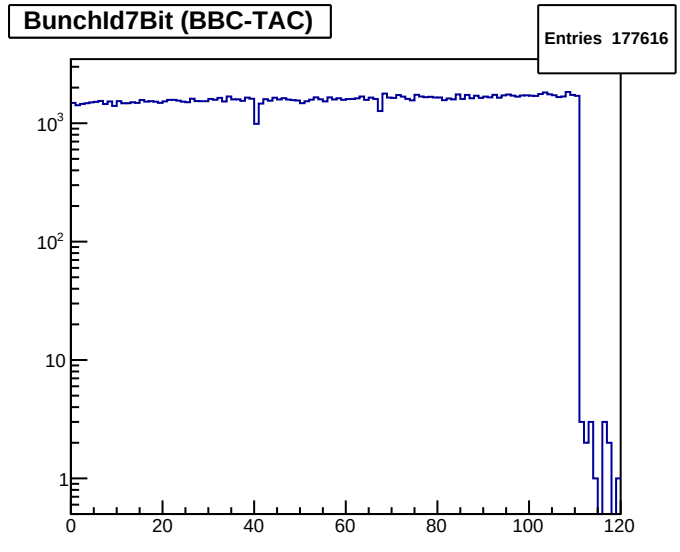
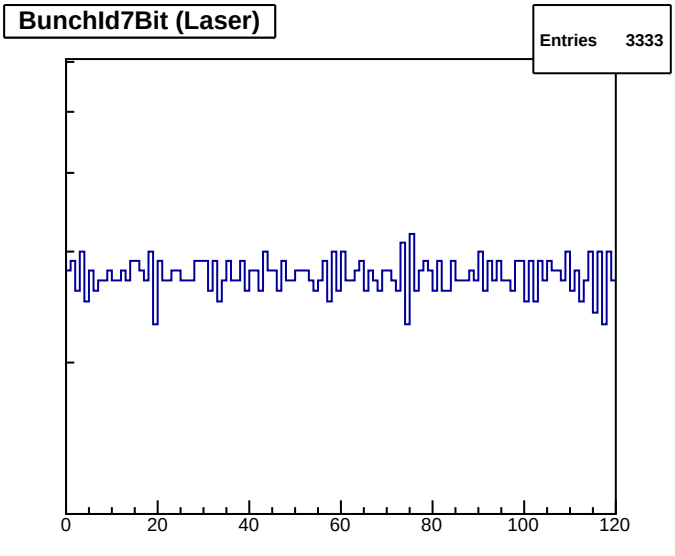
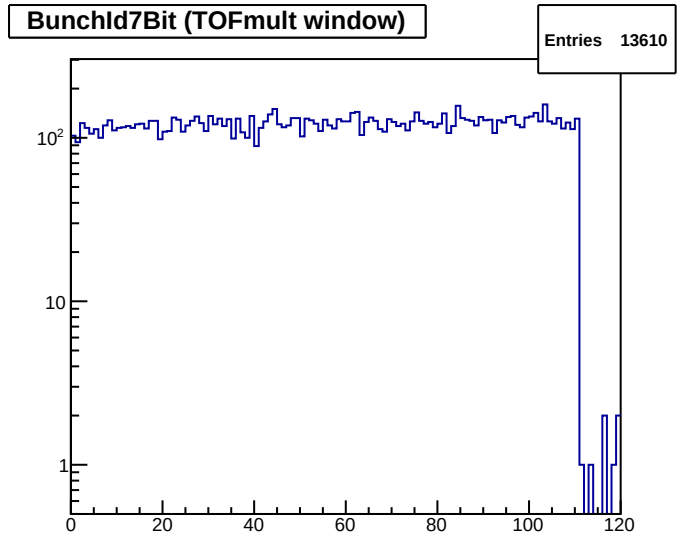

BunchId7Bit (VPD-TAC)
Entries 208000
$10^3$
$10^2$
10
0
20
40
60
80
100
120

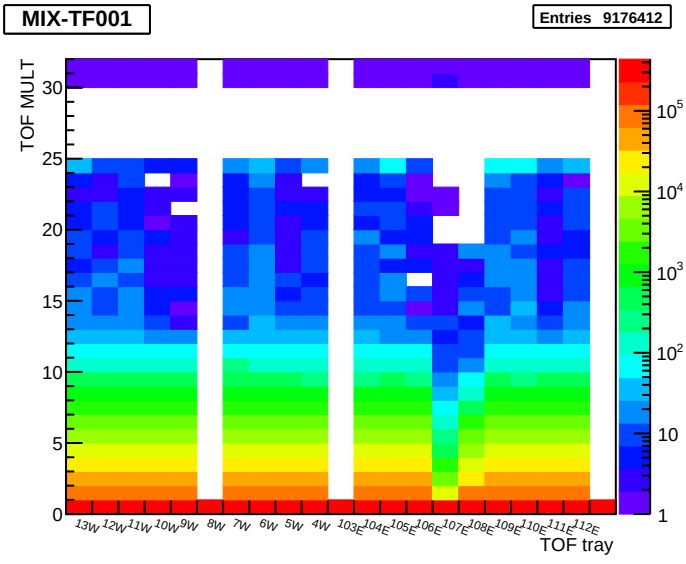

BunchId7Bit (ZDC-TAC)
Entries 923
10
1
0
20
40
60
80
100
120

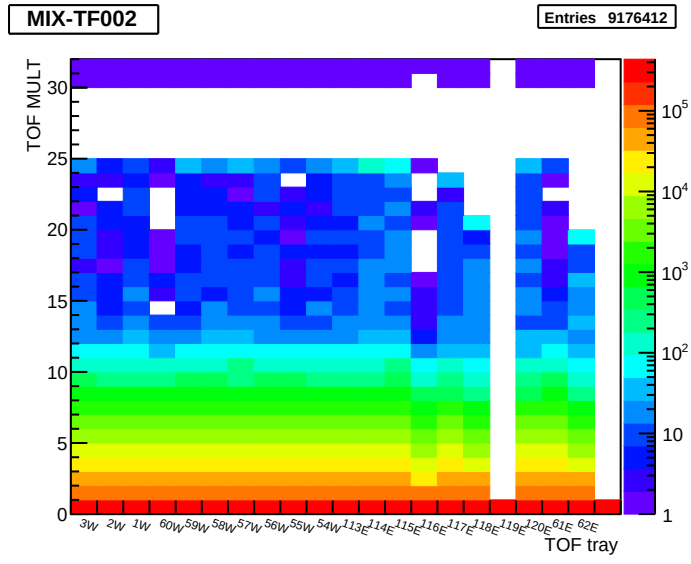

BunchId7Bit (EPD-TAC)
Entries 368781
$10^3$
$10^2$
10
0
20
40
60
80
100
120

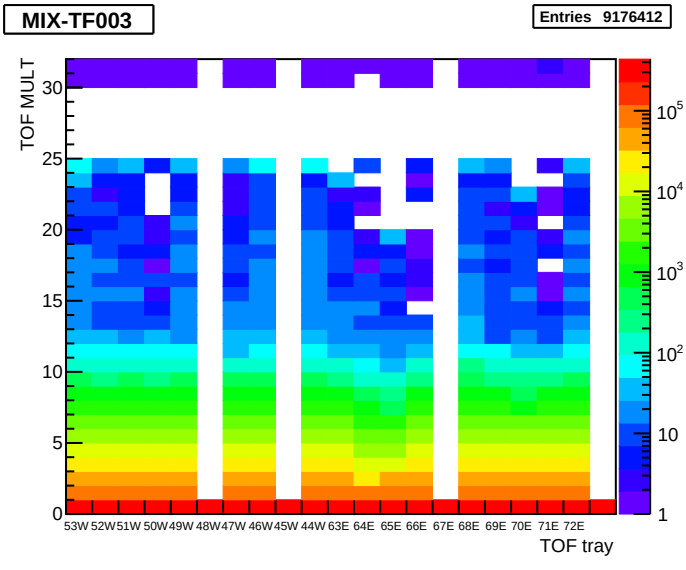

BunchId7Bit (BBC-TAC)
Entries 177616
$10^3$
$10^2$
10
1
0
20
40
60
80
100
120

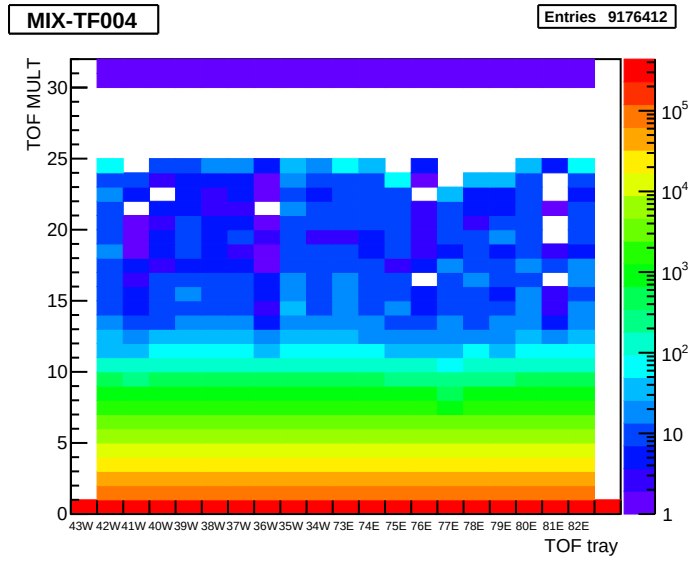

BunchId7Bit (Laser)
Entries 3333
0
20
40
60
80
100
120

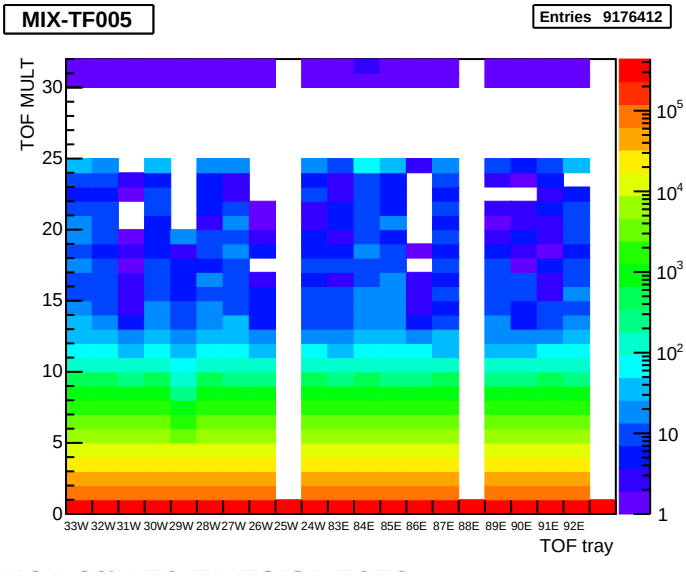

BunchId7Bit (TOFmult window)
Entries 13610
$10^2$
10
1
0
20
40
60
80
100
120

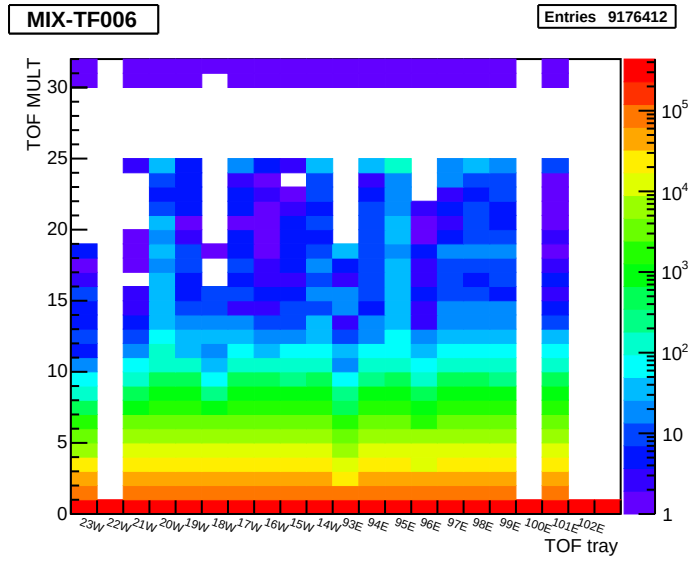

MIX-TF001
Entries 9176412
TOF MULT
TOF tray

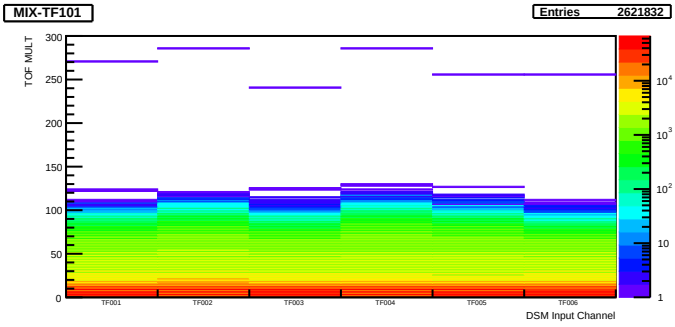

MIX-TF002
Entries 9176412
TOF MULT
TOF tray

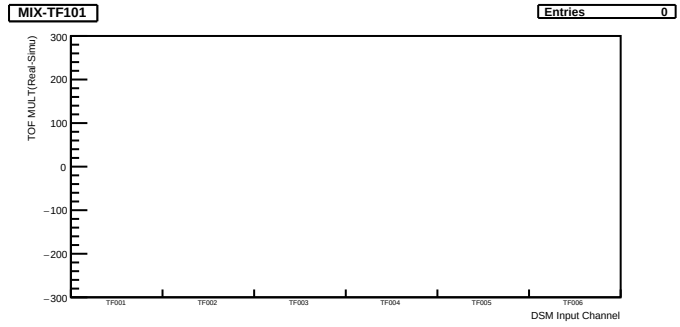

MIX-TF003
Entries 9176412
TOF MULT
TOF tray

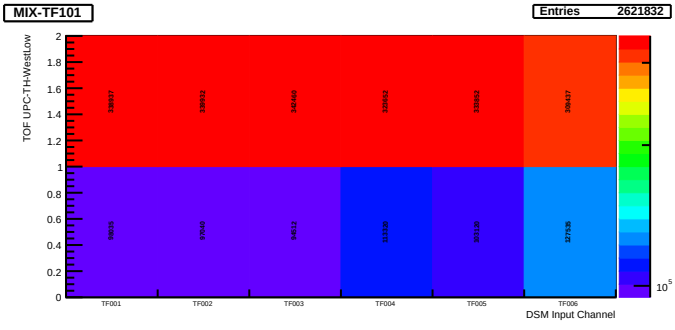

MIX-TF004
Entries 9176412
TOF MULT
TOF tray

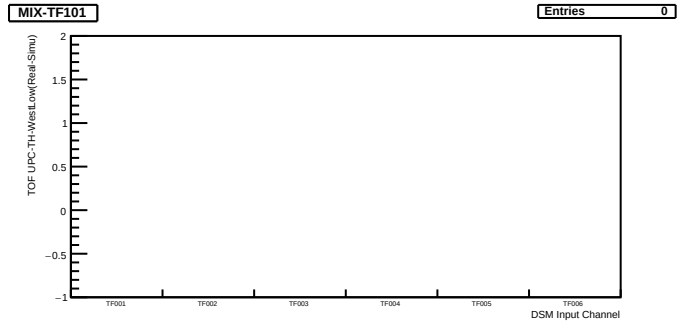

MIX-TF005
Entries 9176412
TOF MULT
TOF tray

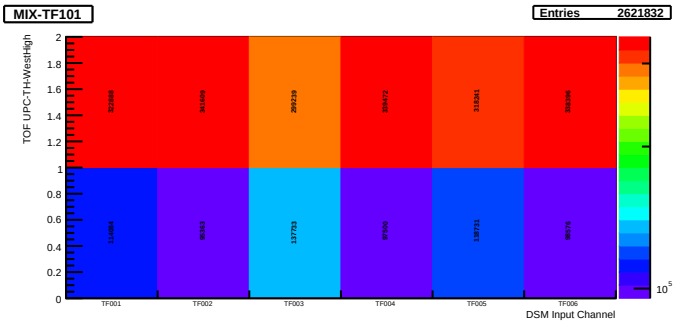

MIX-TF006
Entries 9176412
TOF MULT
TOF tray

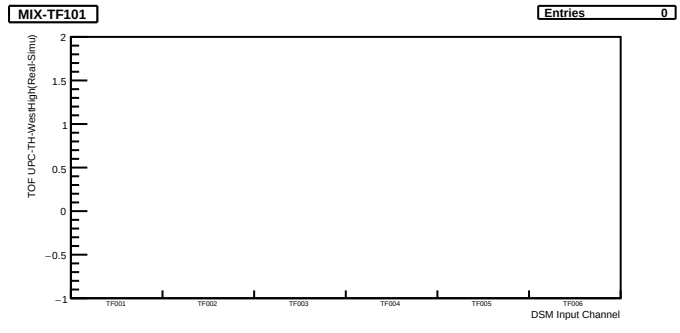

MIX-TF101
Entries 2621832
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

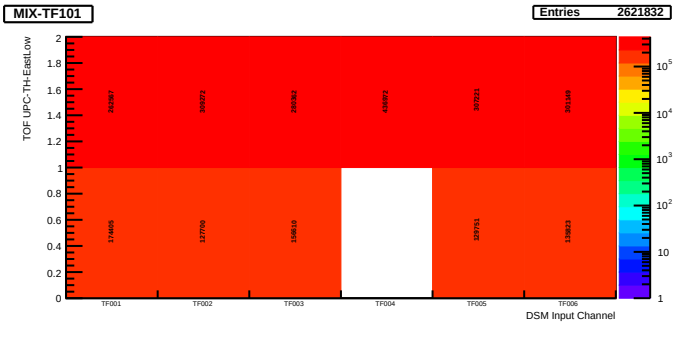

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

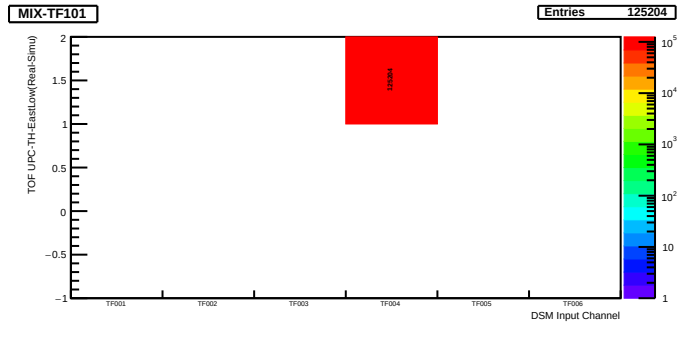

MIX-TF101
Entries 2621832
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

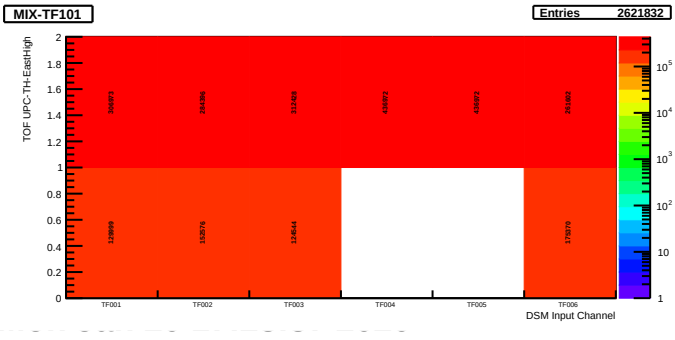

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

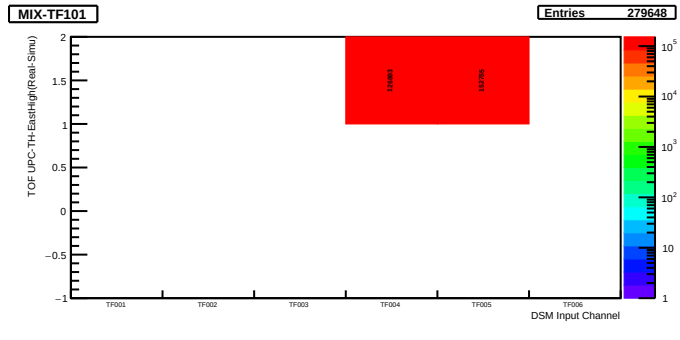

MIX-TF101
Entries 2621832
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

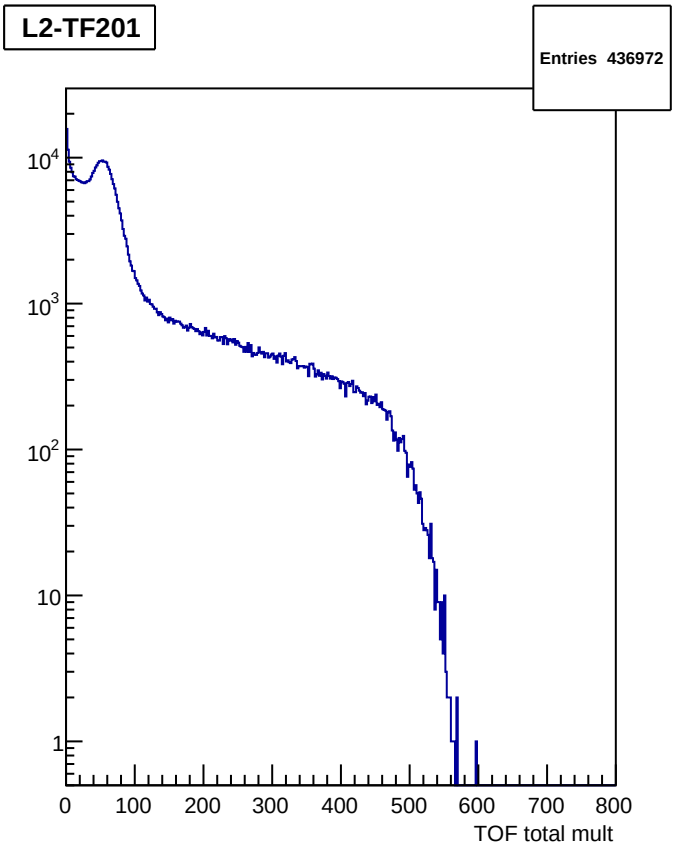

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

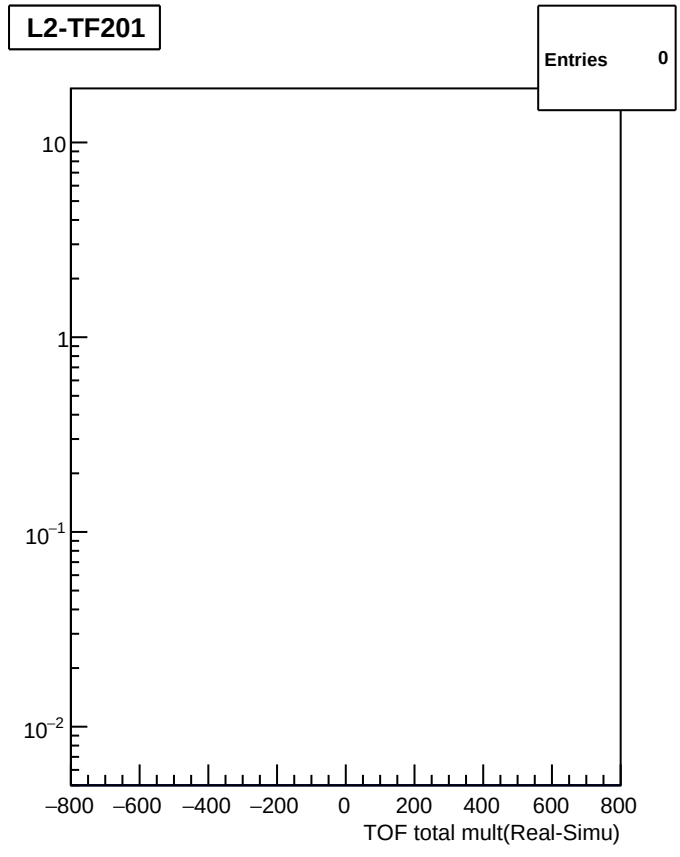

MIX-TF101
Entries 2621832
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

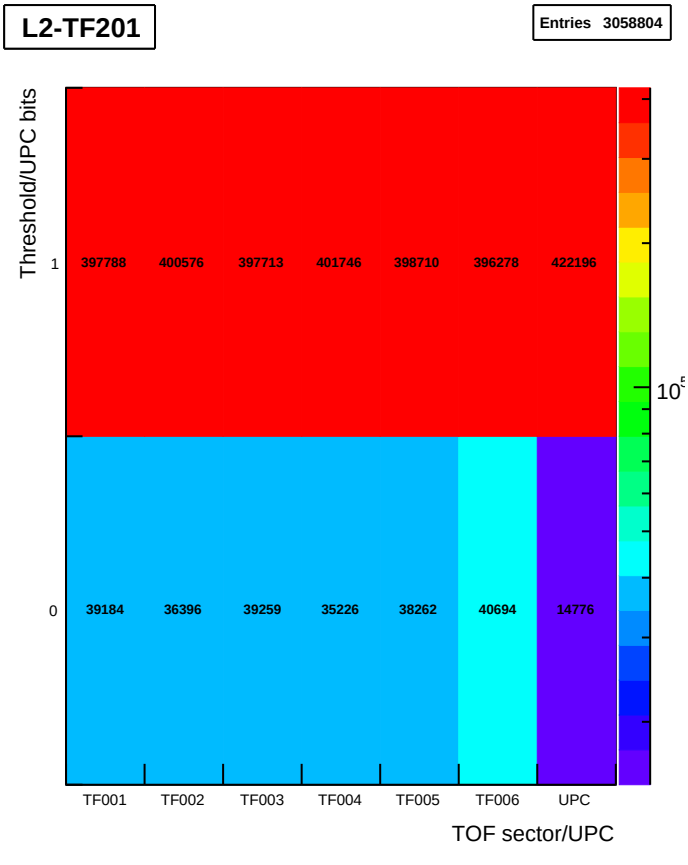

MIX-TF101
Entries 125204
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

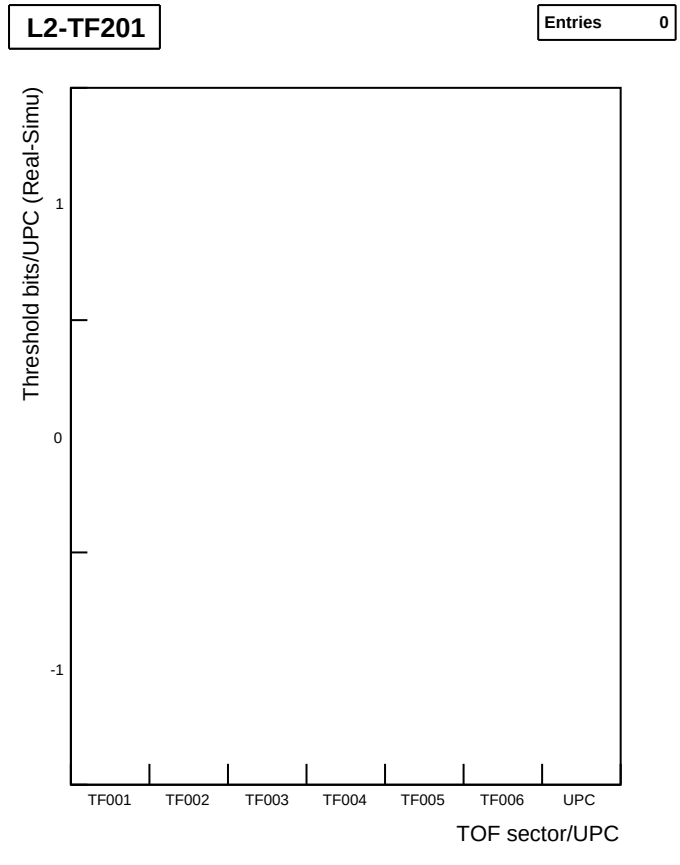

MIX-TF101
Entries 2621832
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

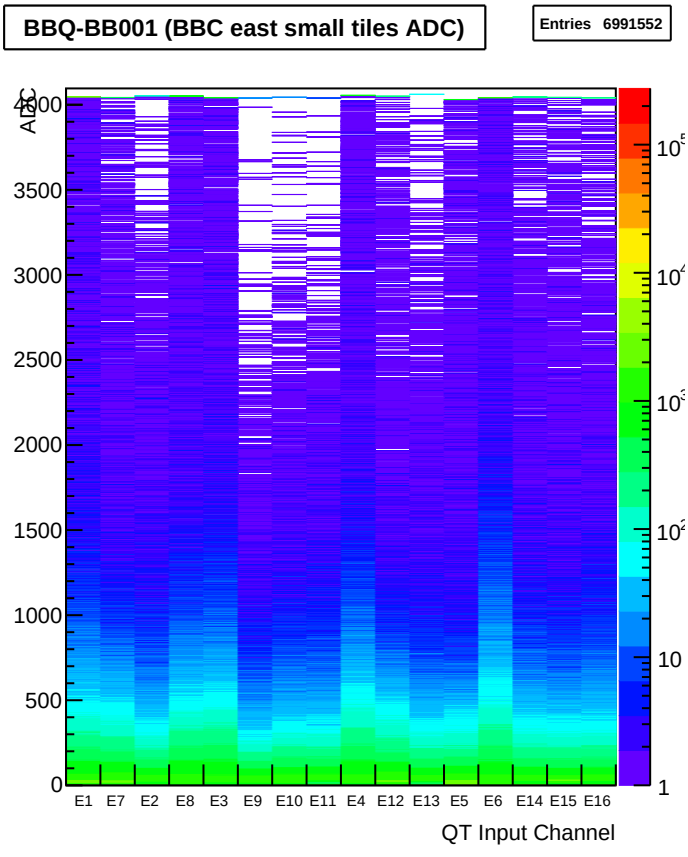

MIX-TF101
Entries 279648
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

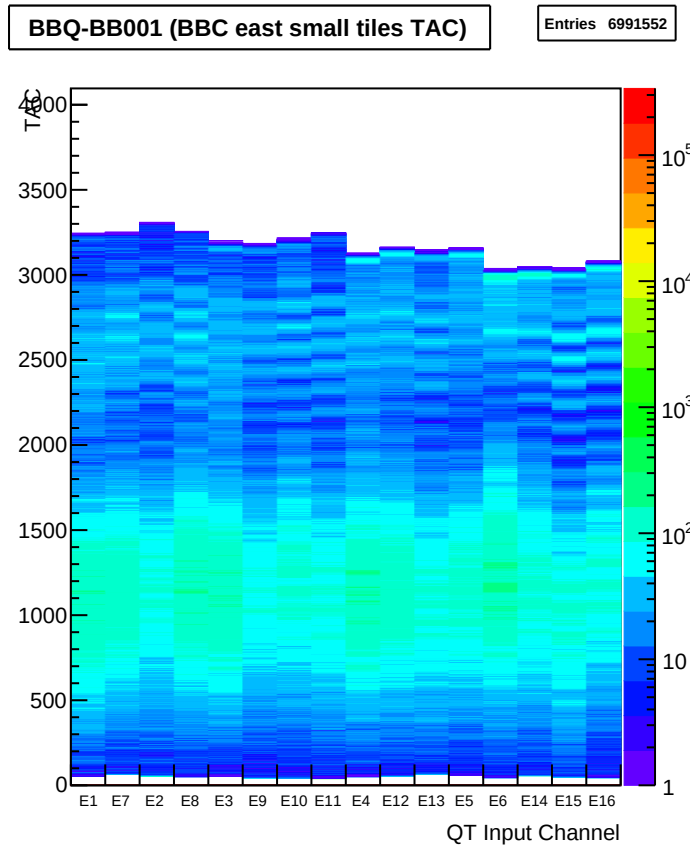

L2-TF201
Entries 436972
TOF total mult

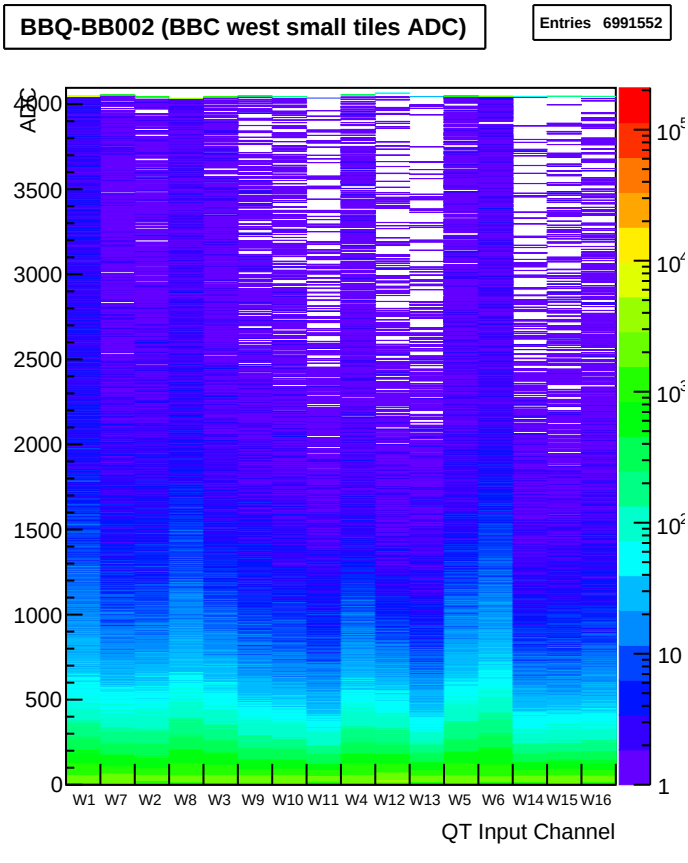

L2-TF201
Entries 0
TOF total mult(Real-Simu)

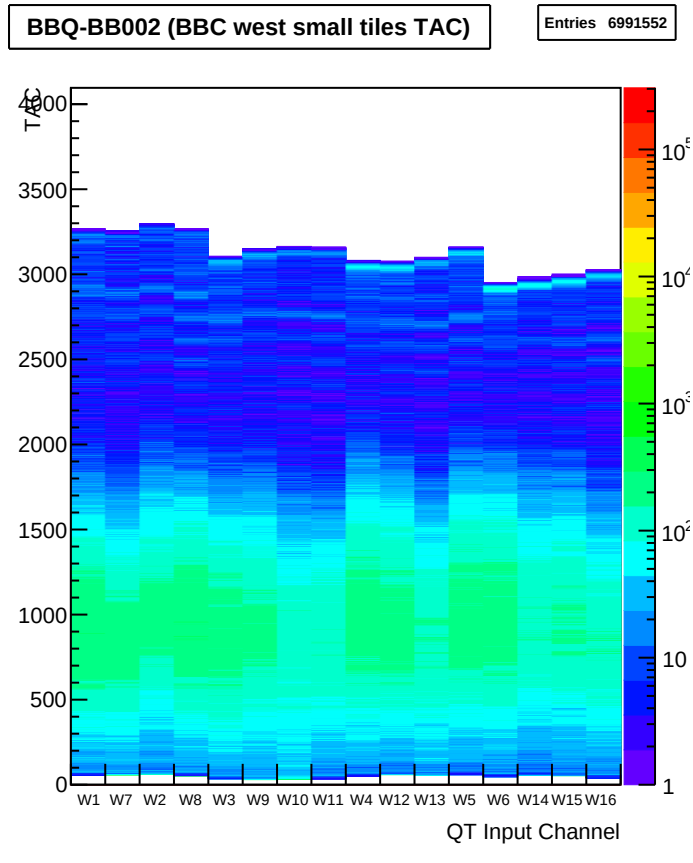

L2-TF201
Entries 3058804
Threshold/UPC bits
397788
400576
397713
401746
398710
396278
422196
39184
36396
39259
35226
38262
40694
14776
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

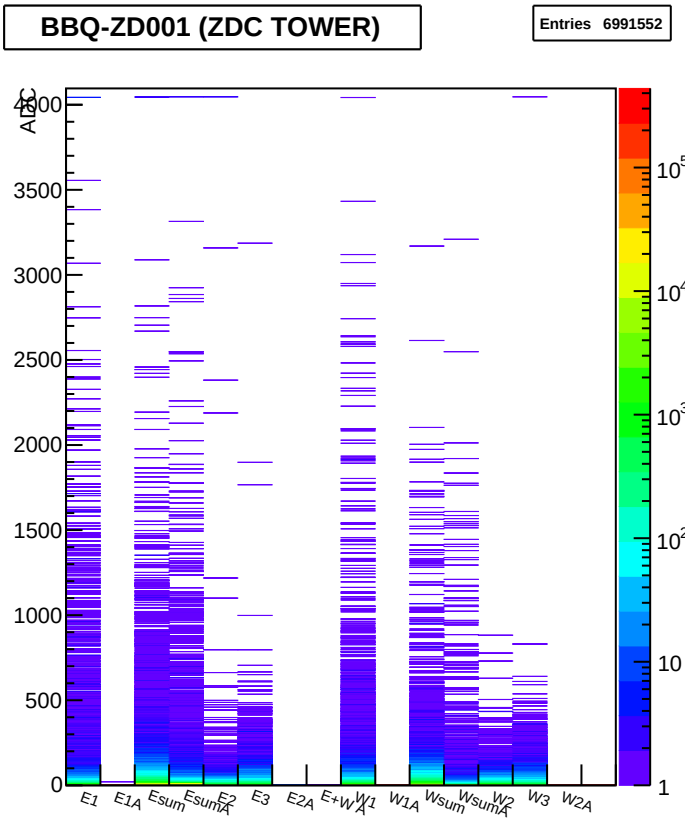

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

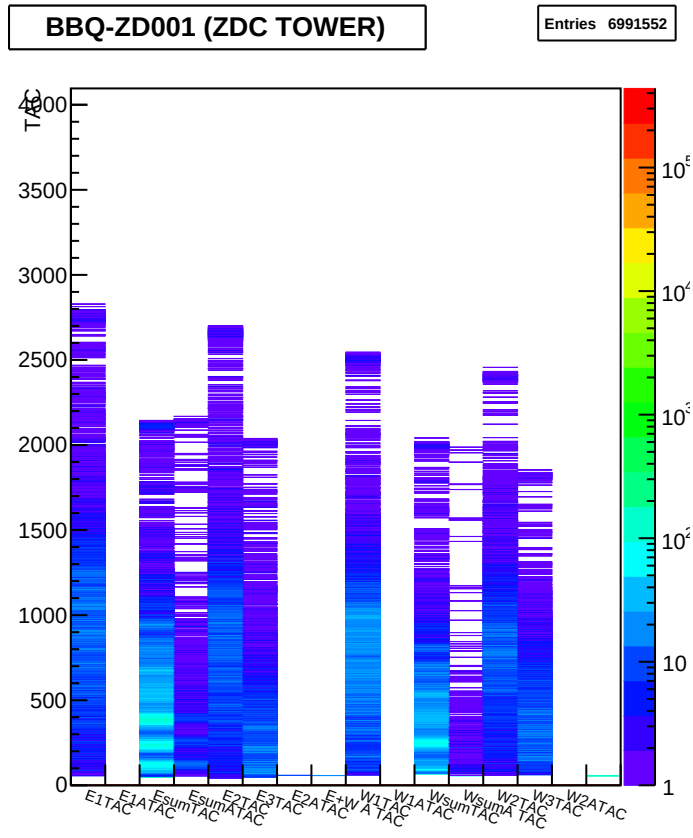

BBQ-BB001 (BBC east small tiles ADC)
Entries 6991552
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

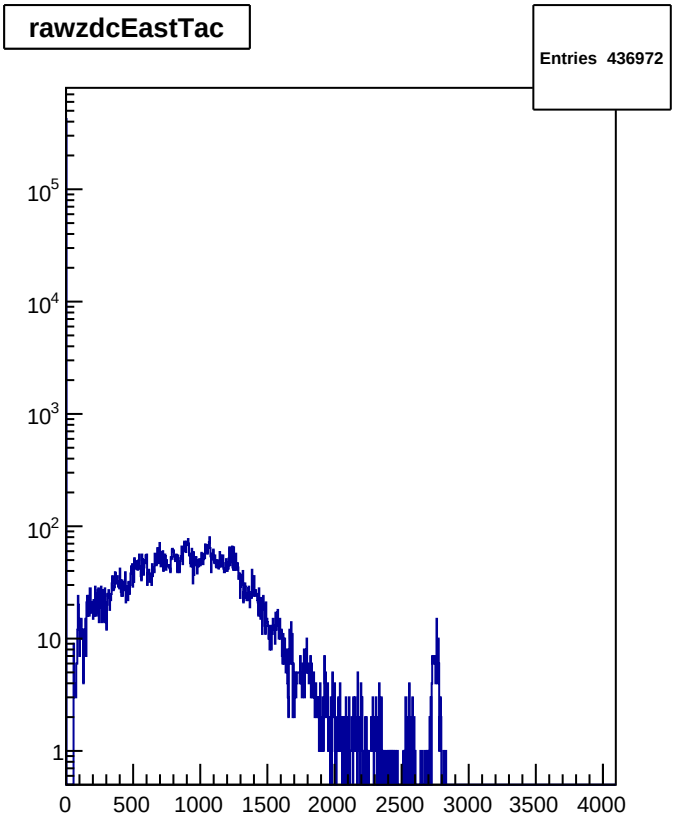

BBQ-BB001 (BBC east small tiles TAC)
Entries 6991552
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

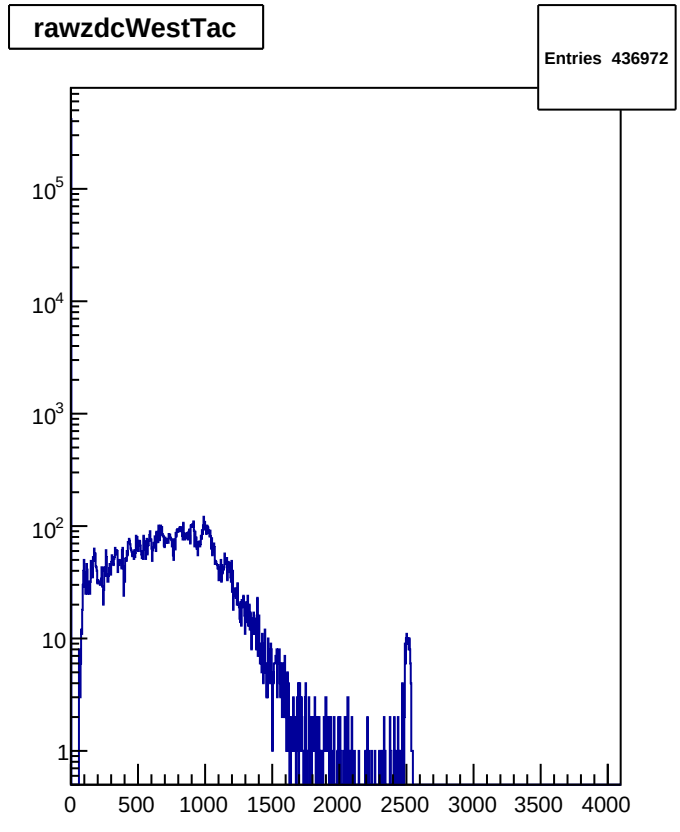

BBQ-BB002 (BBC west small tiles ADC)
Entries 6991552
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

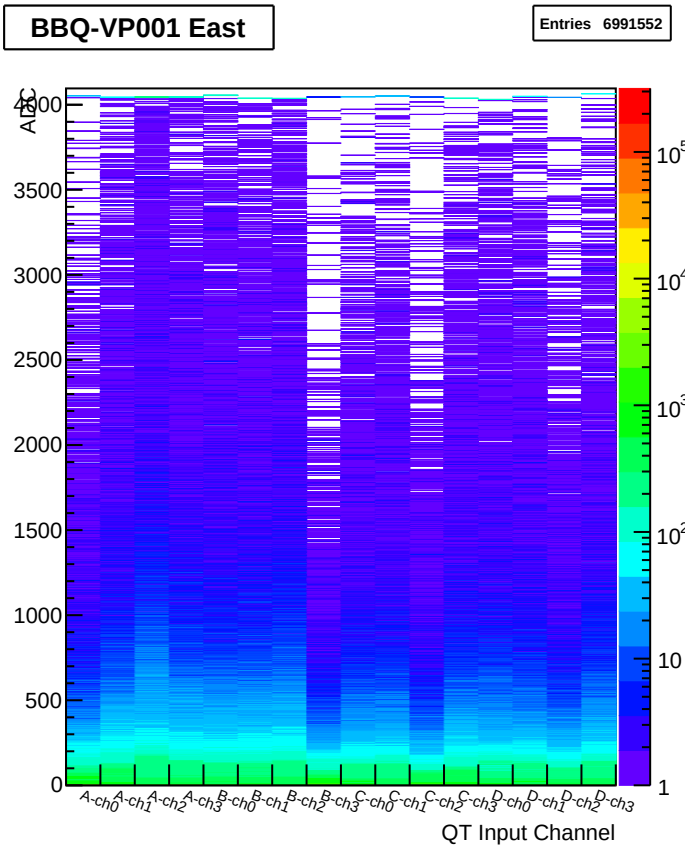

BBQ-BB002 (BBC west small tiles TAC)
Entries 6991552
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

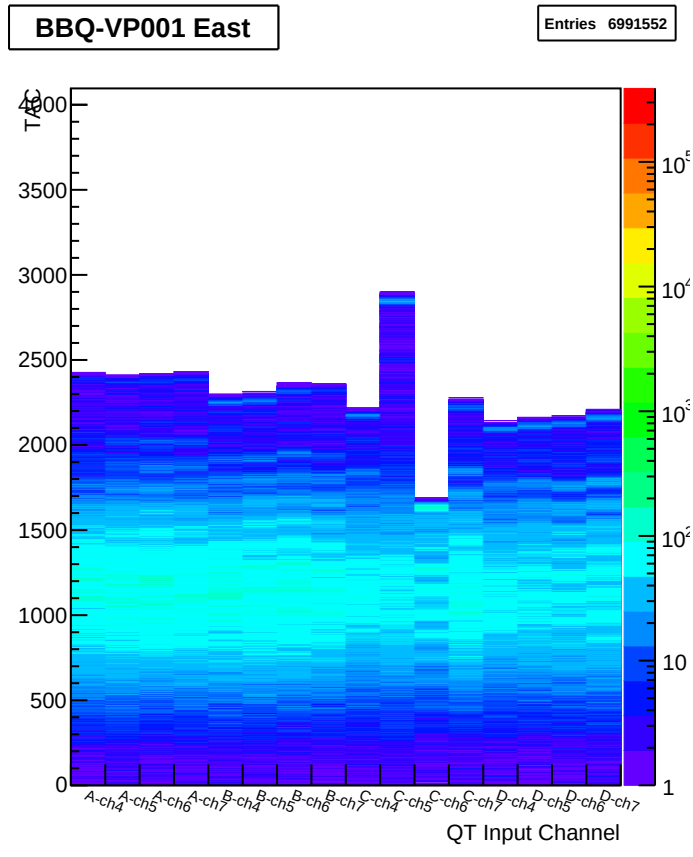

BBQ-ZD001 (ZDC TOWER)
Entries 6991552
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

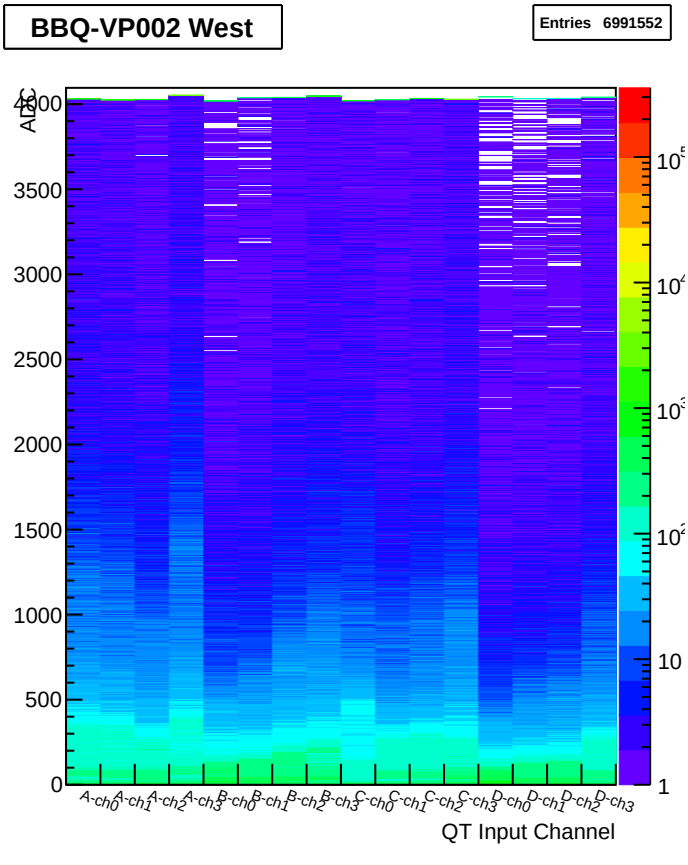

BBQ-ZD001 (ZDC TOWER)
Entries 6991552
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

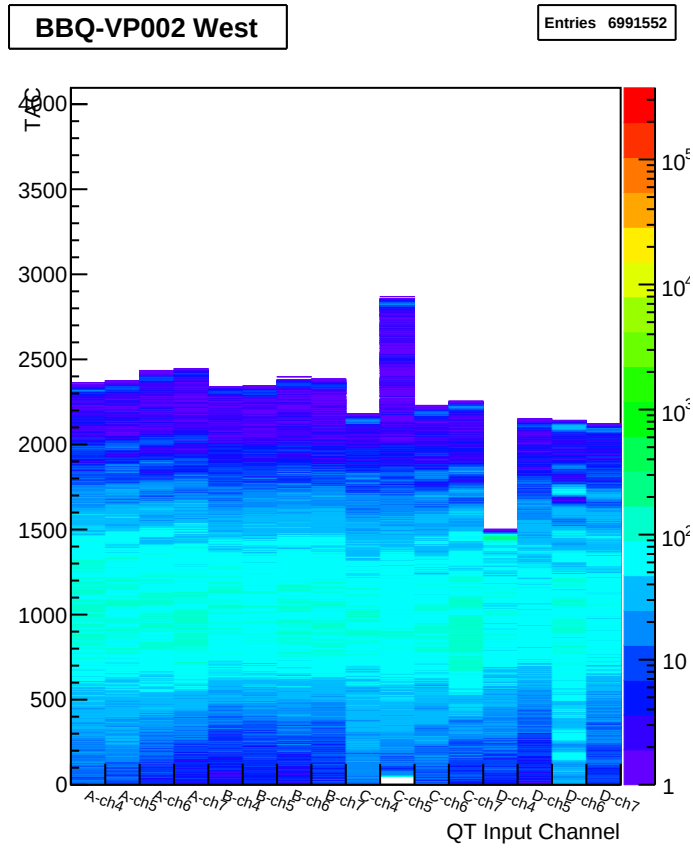

rawzdcEastTac
Entries 436972

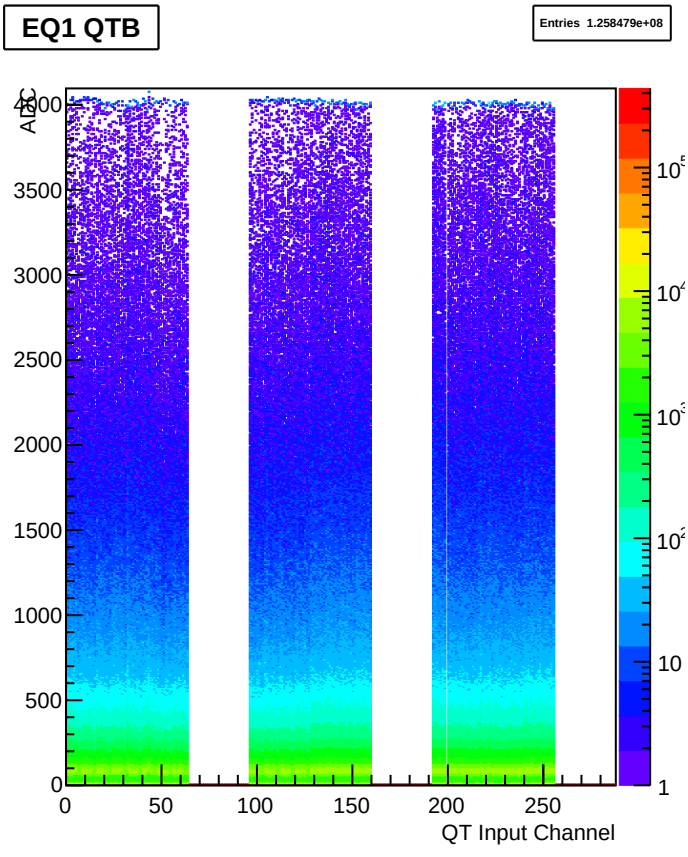

rawzdcWestTac
Entries 436972

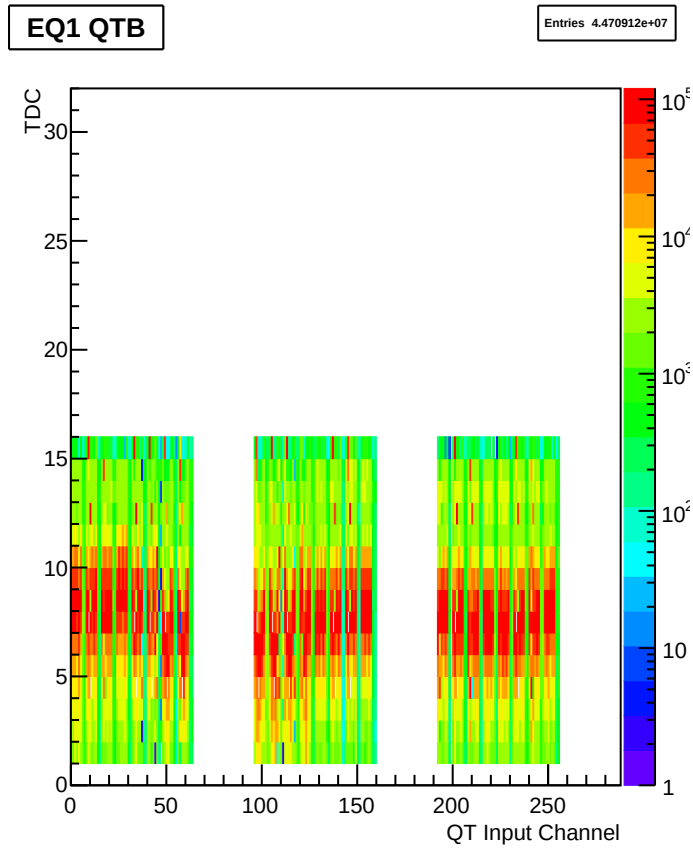

BBQ-VP001 East
Entries 6991552
ADC
QT Input Channel

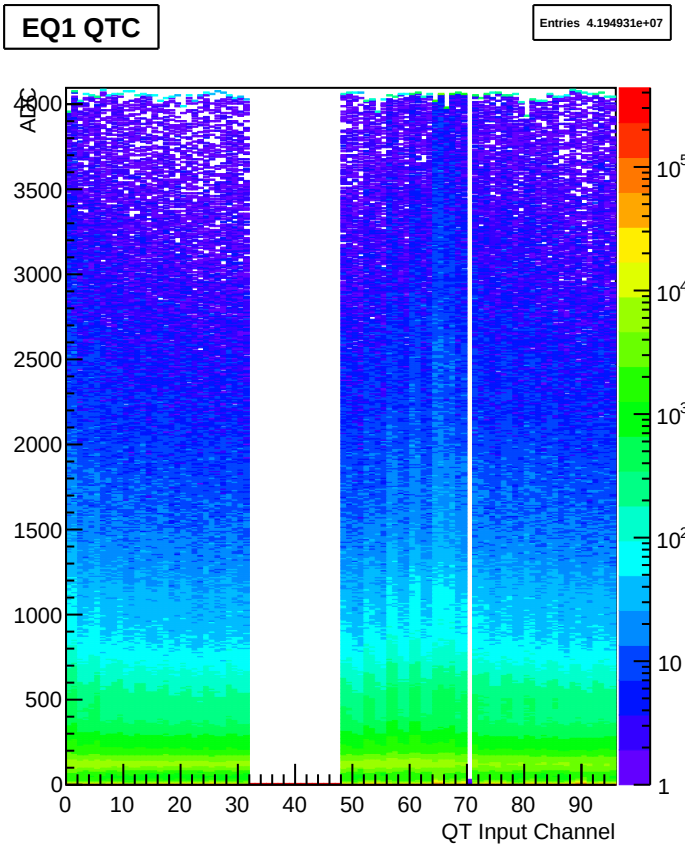

BBQ-VP001 East
Entries 6991552
TADC
QT Input Channel

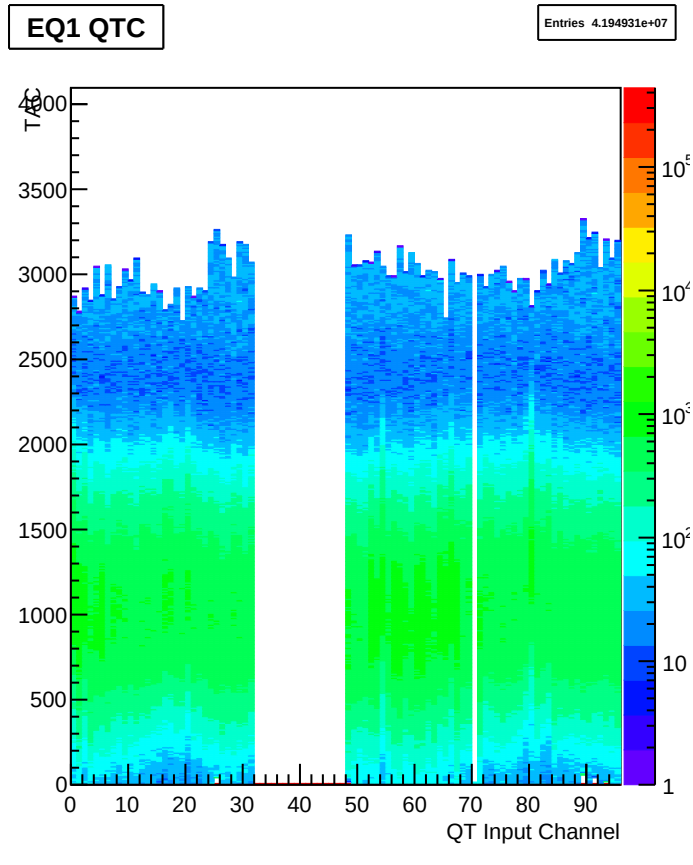

BBQ-VP002 West
Entries 6991552
ADC
QT Input Channel

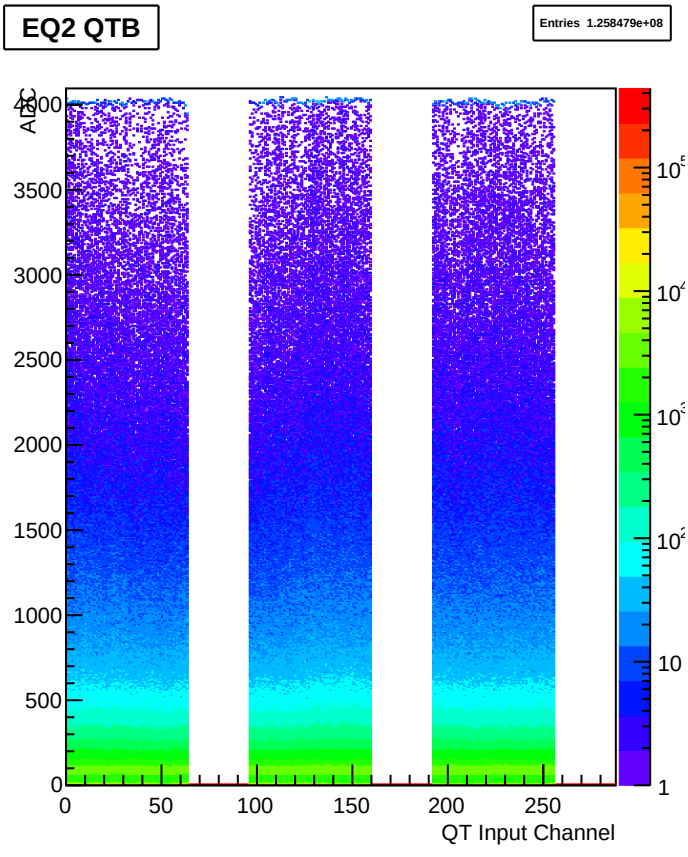

BBQ-VP002 West
Entries 6991552
TADC
QT Input Channel

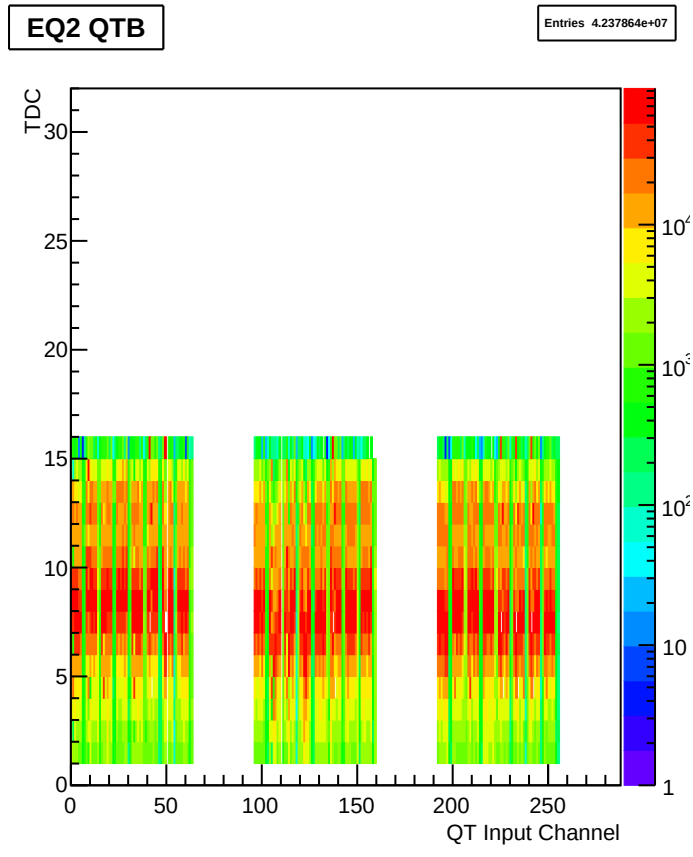

EQ1 QTB
Entries 1.258479e+08
ADC
QT Input Channel

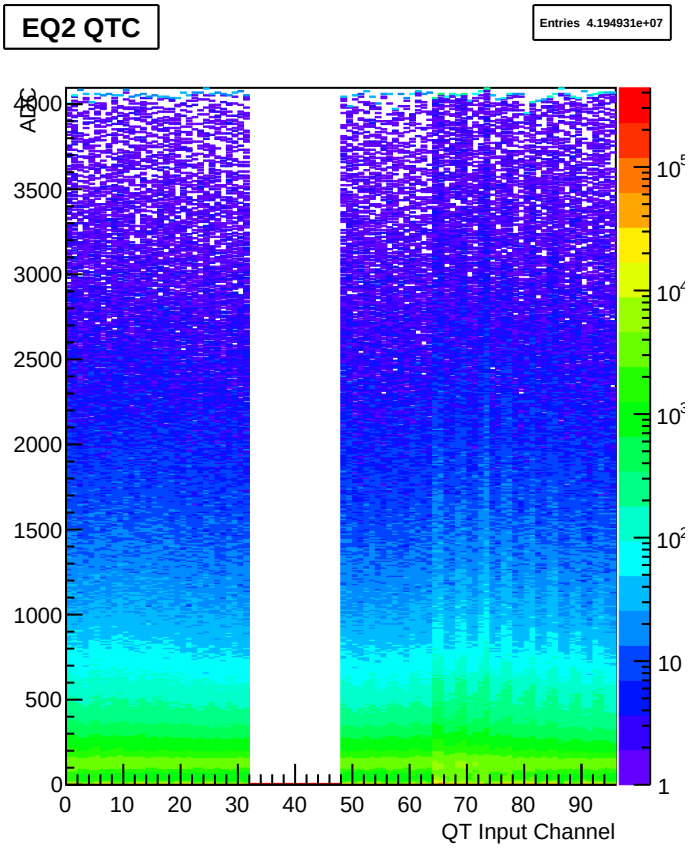

EQ1 QTB
Entries 4.470912e+07
TDC
QT Input Channel

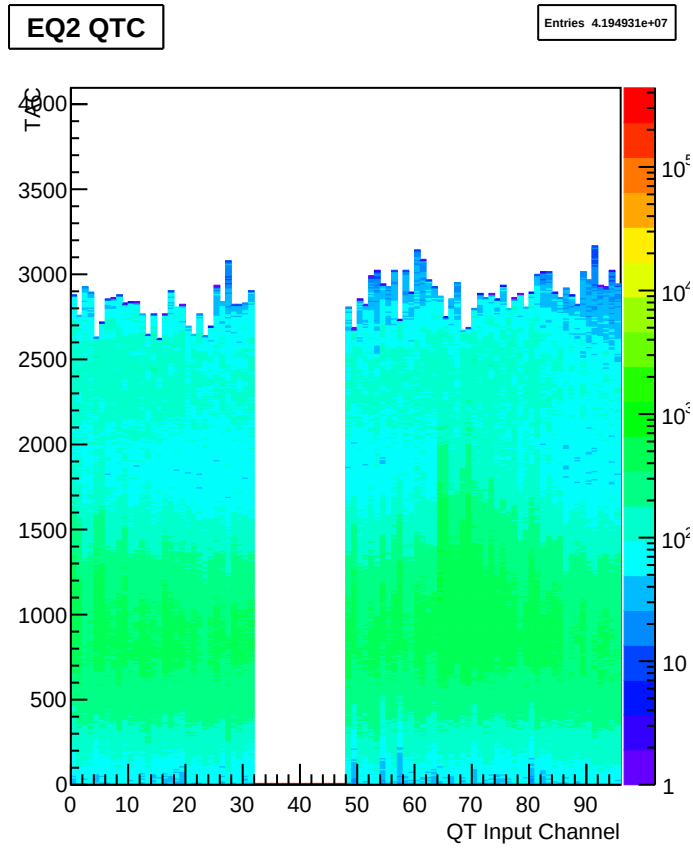

EQ1 QTC
Entries 4.194931e+07
ADC
QT Input Channel

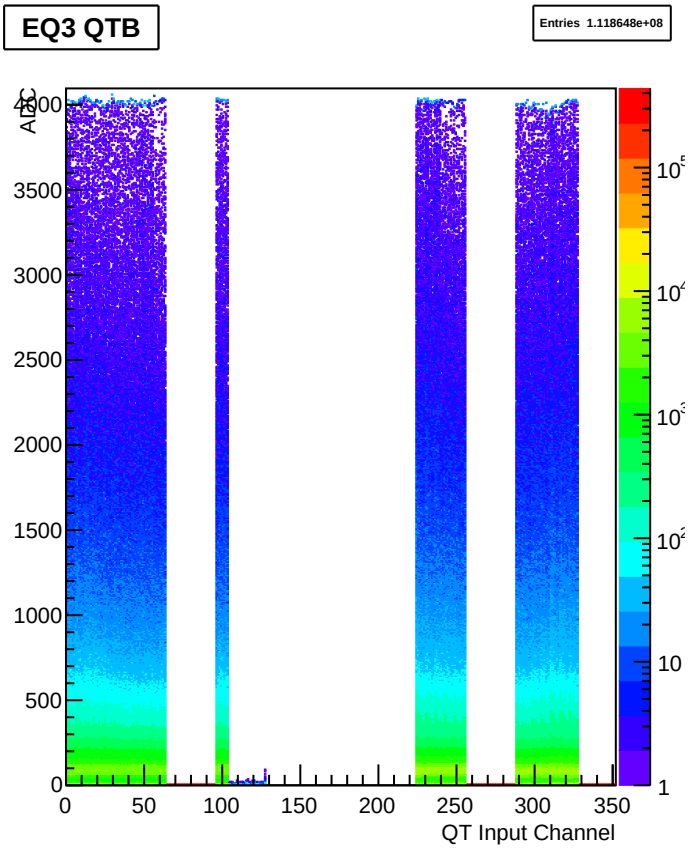

EQ1 QTC
Entries 4.194931e+07
TADC
QT Input Channel

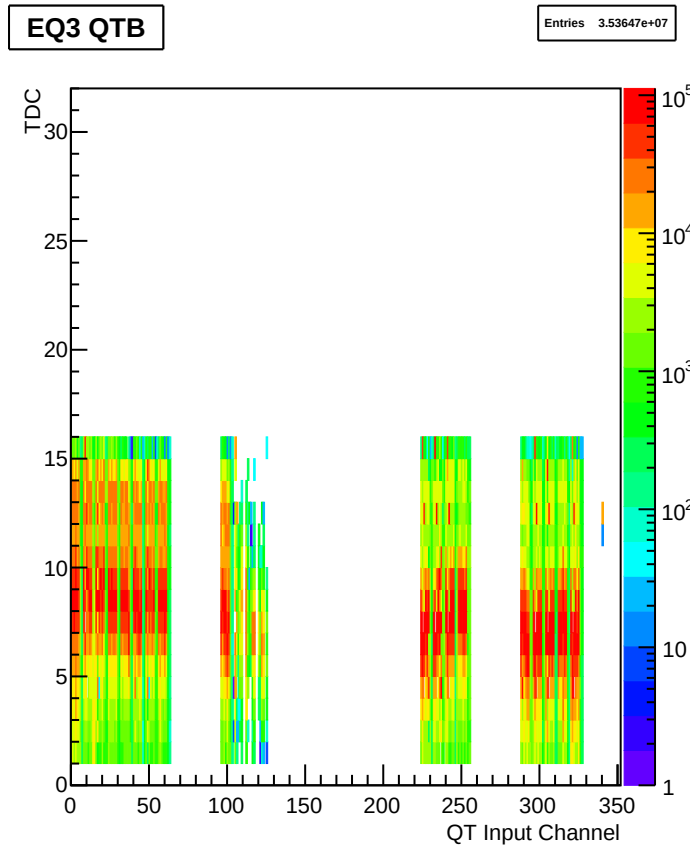

EQ2 QTB
Entries 1.258479e+08
ADC
QT Input Channel

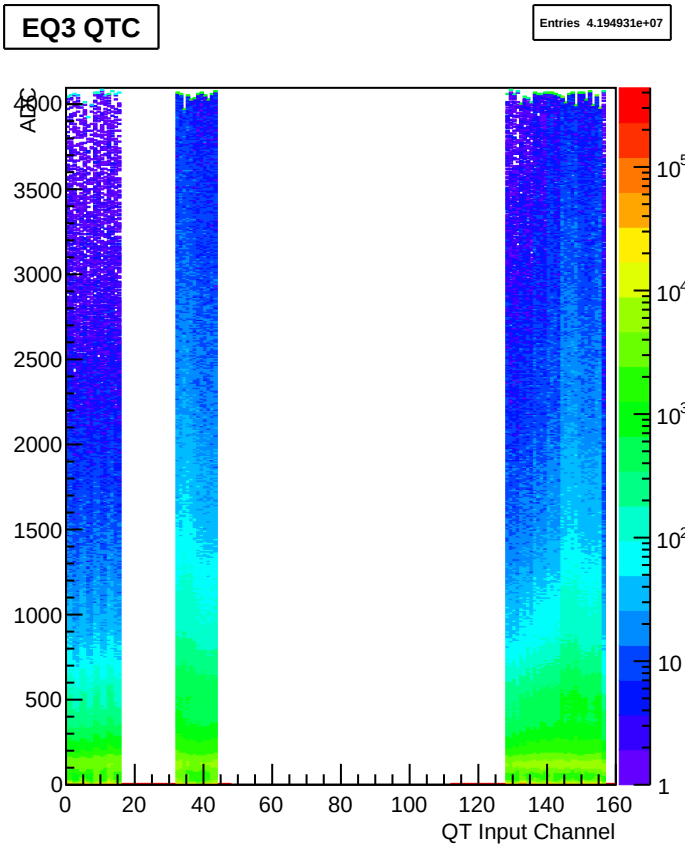

EQ2 QTB
Entries 4.237864e+07
TDC
QT Input Channel

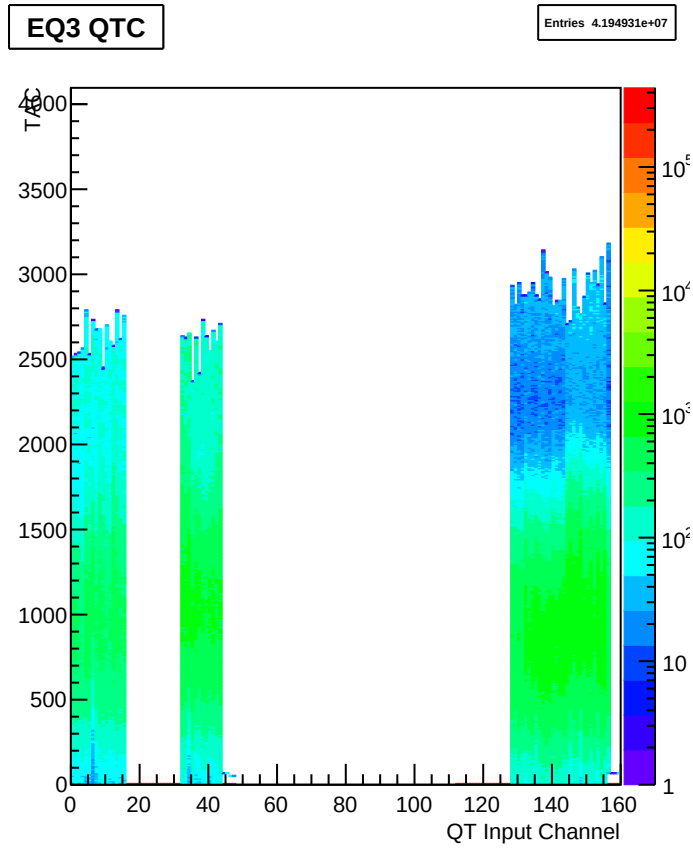

EQ2 QTC
Entries 4.194931e+07
ADC
QT Input Channel

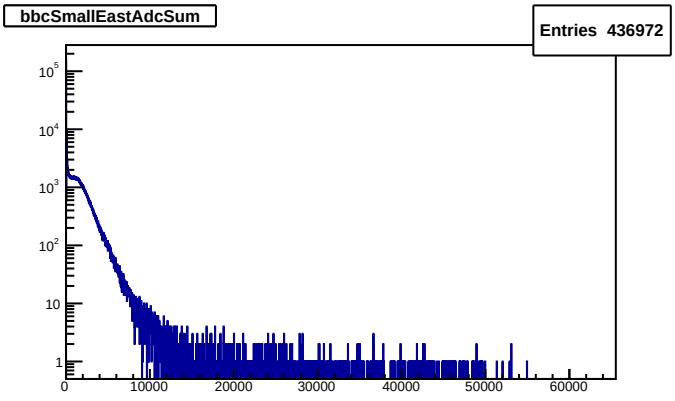

EQ2 QTC
Entries 4.194931e+07
TADC
QT Input Channel

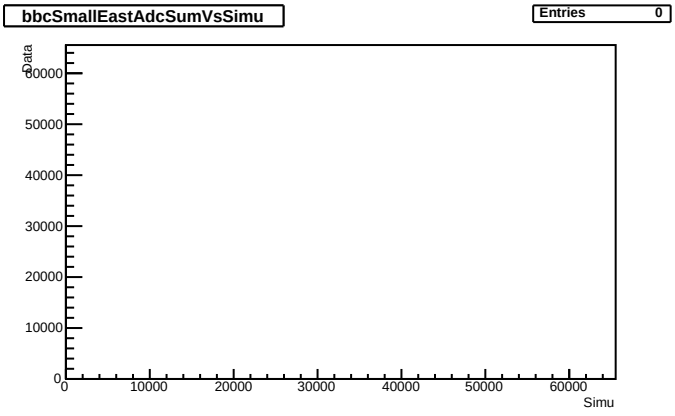

EQ3 QTB
Entries 1.118648e+08
ADC
QT Input Channel

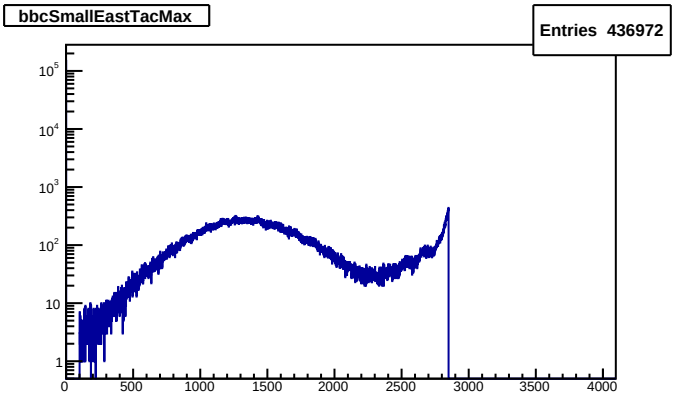

EQ3 QTB
Entries 3.53647e+07
TDC
QT Input Channel

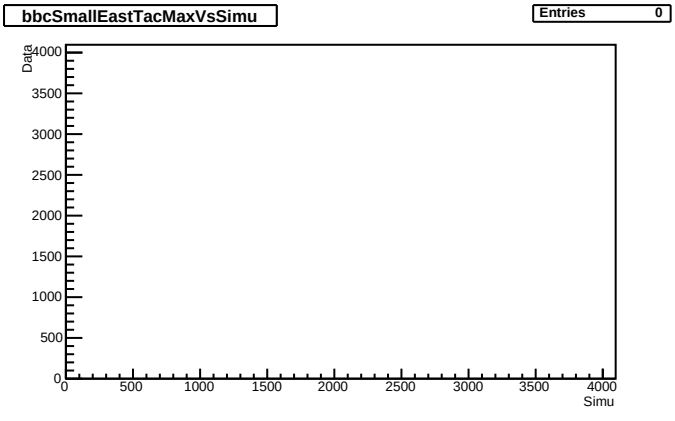

EQ3 QTC
Entries 4.194931e+07
ADC
QT Input Channel


EQ3 QTC
Entries 4.194931e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 436972


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 436972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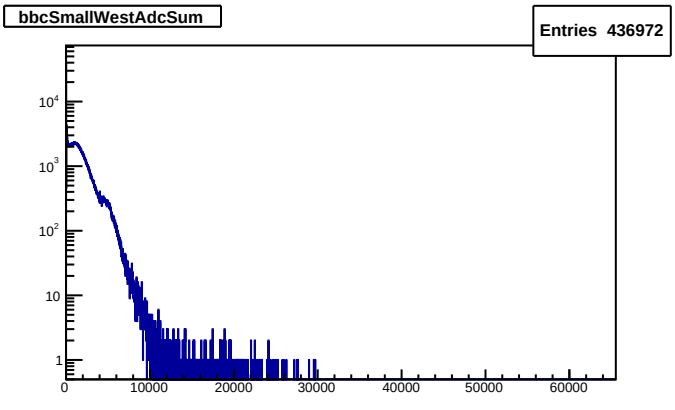
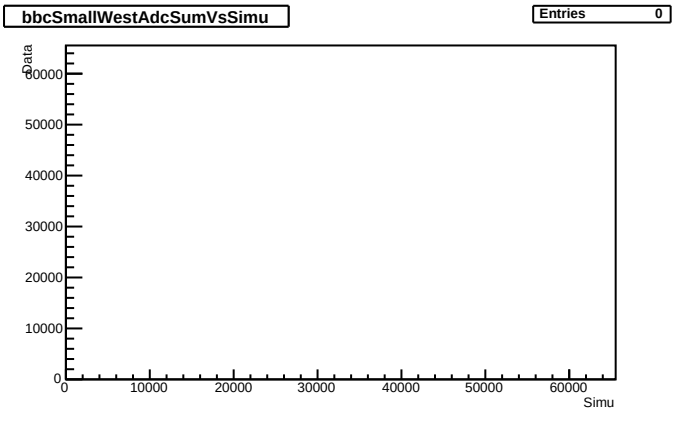
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 436972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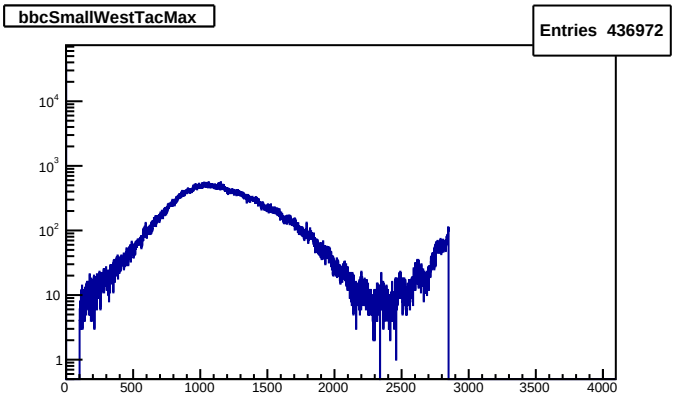
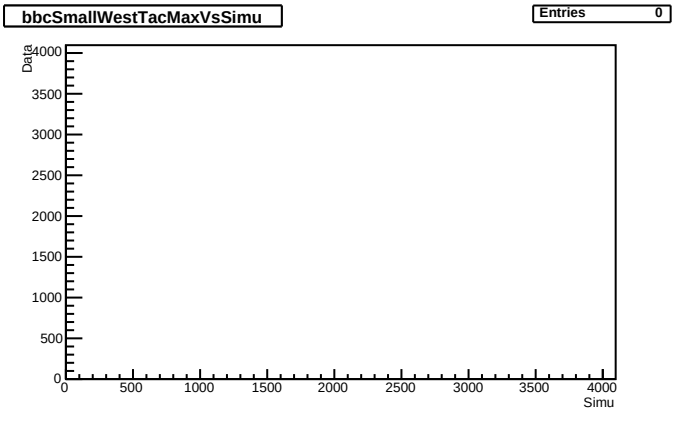
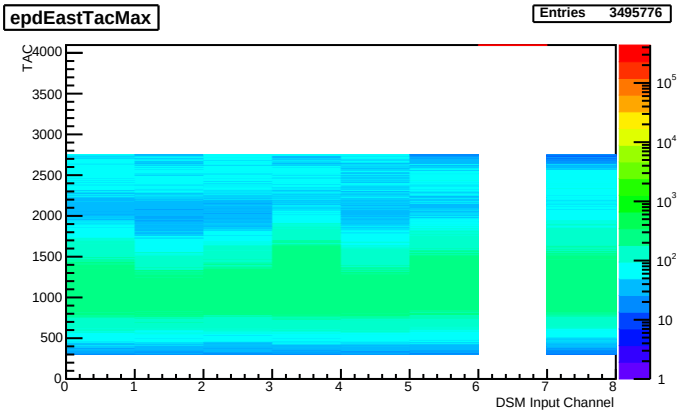
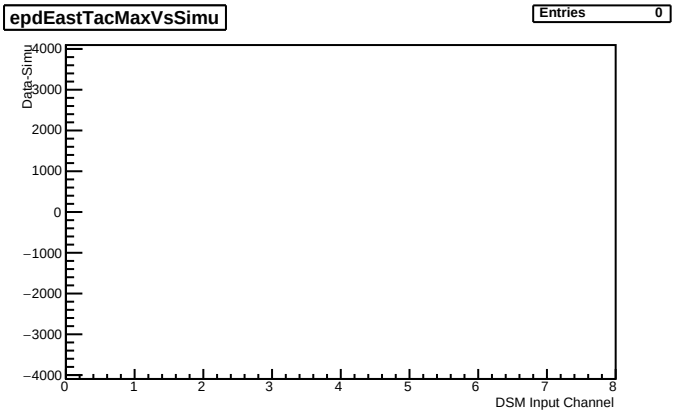
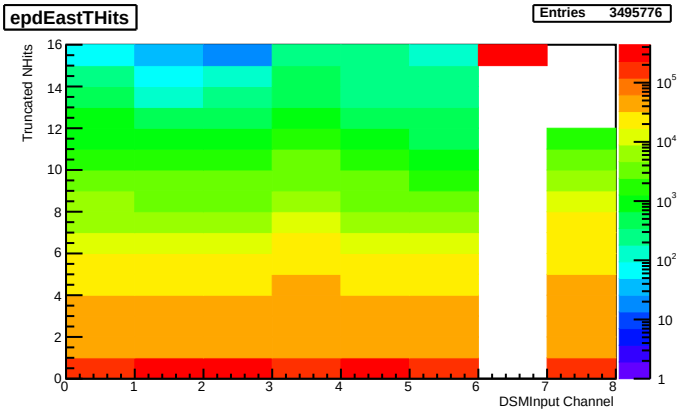
Entries 0
Data
Simu

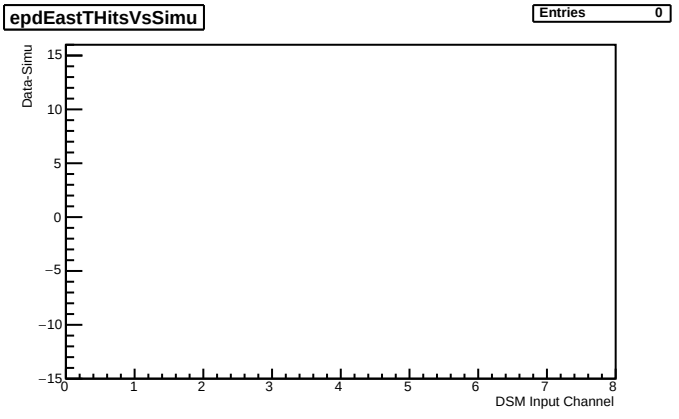

bbcSmallWestTacMax
Entries 436972

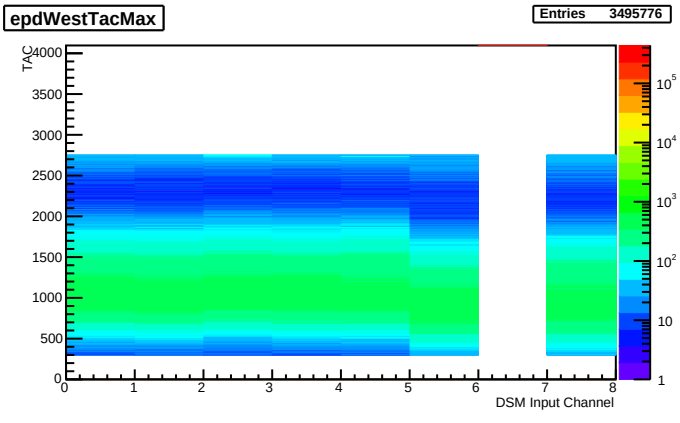

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

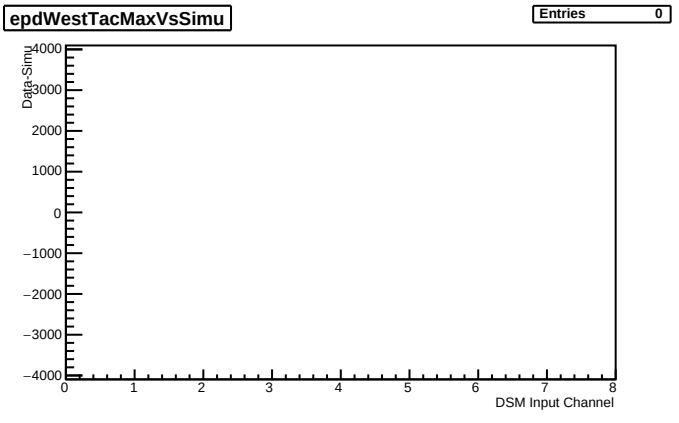

epdEastTacMax
Entries 3495776
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3495776
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 3495776
TAC
DSM Input Channel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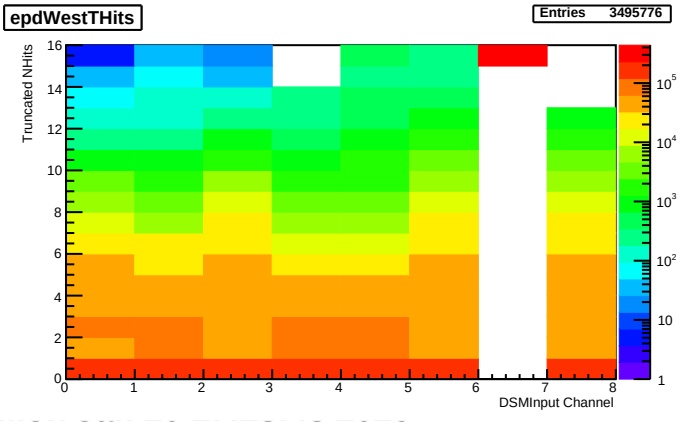
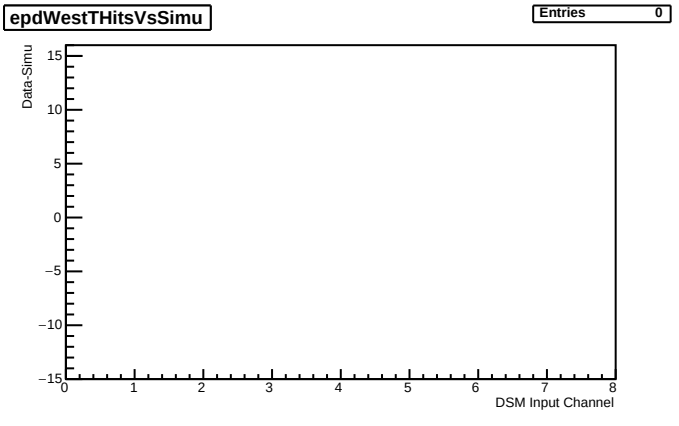
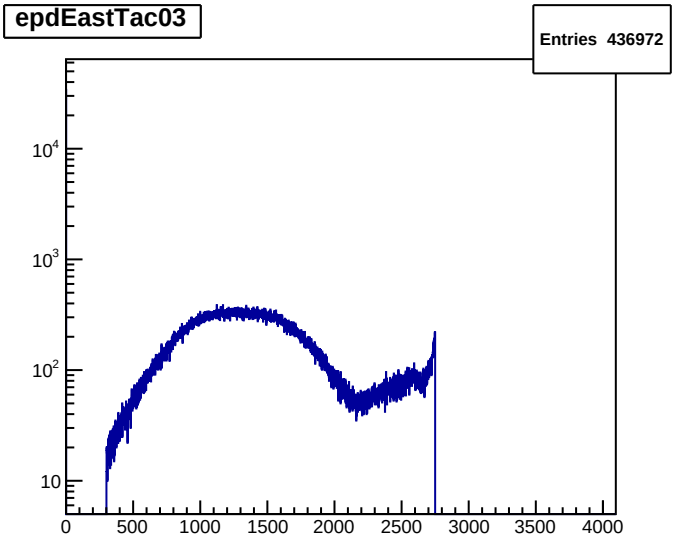
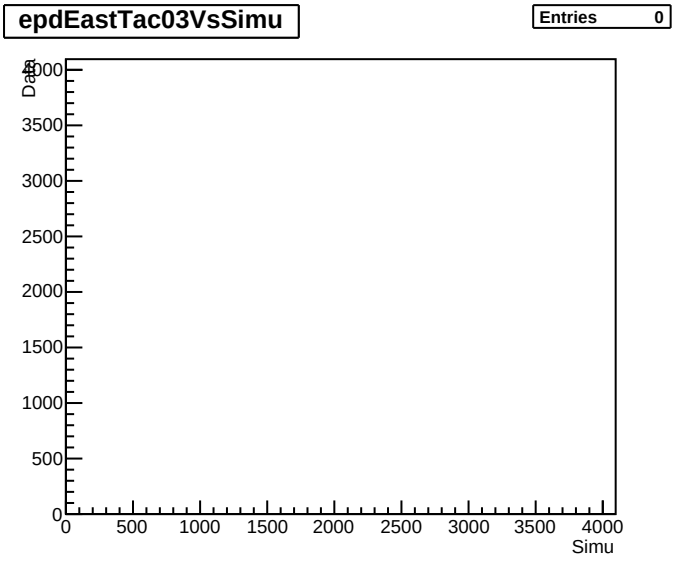
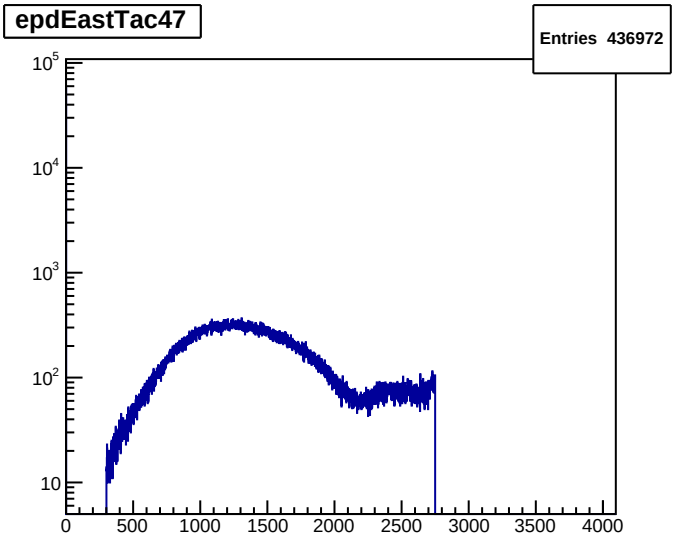
Data-Simu
DSM Input Channel

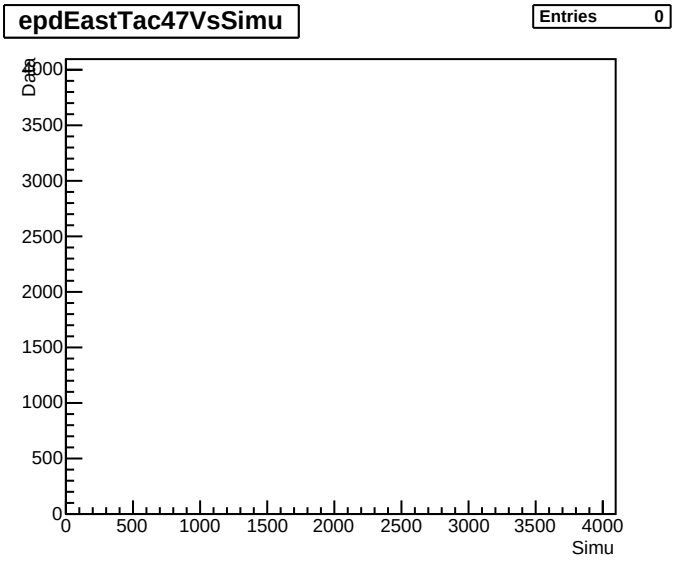

epdWestTHits
Entries 3495776
Truncated NHits
DSMInput Channel

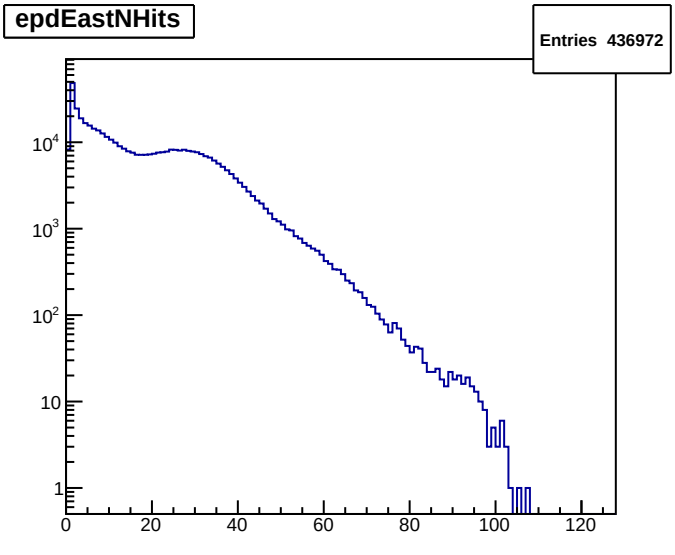

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

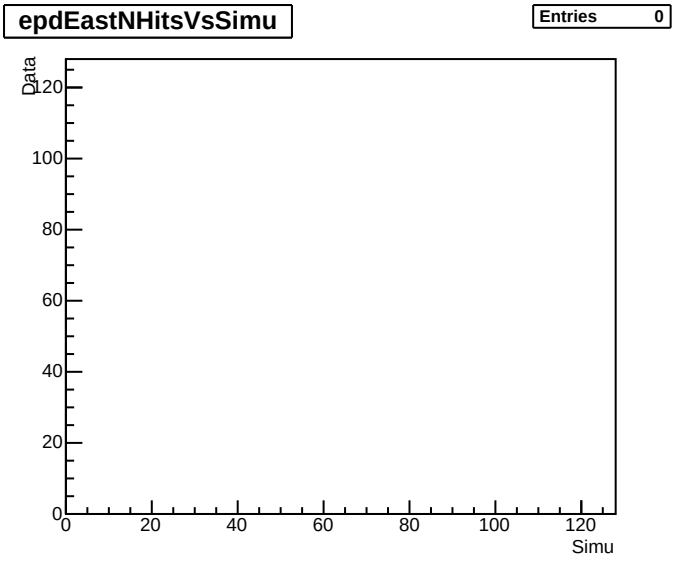

epdEastTac03
Entries 436972


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 436972


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 436972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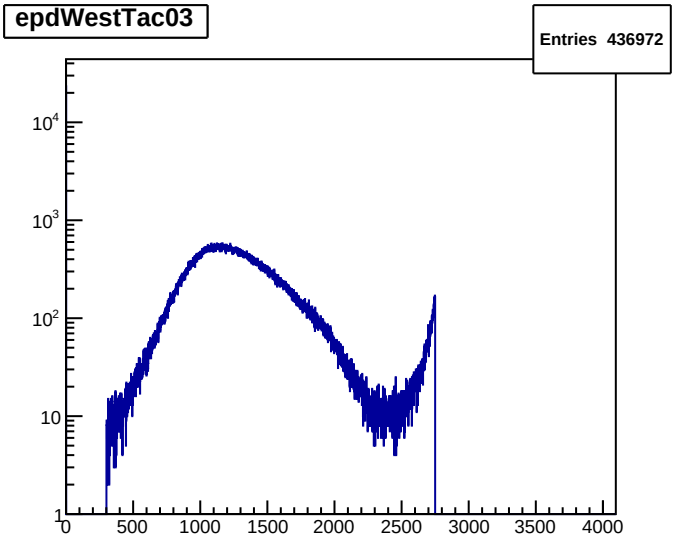
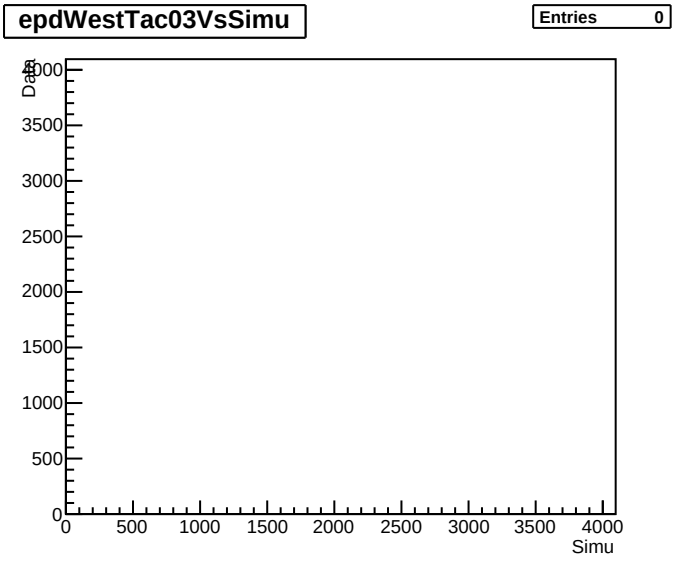
Entries 0
Data
Simu


epdWestTac03
Entries 436972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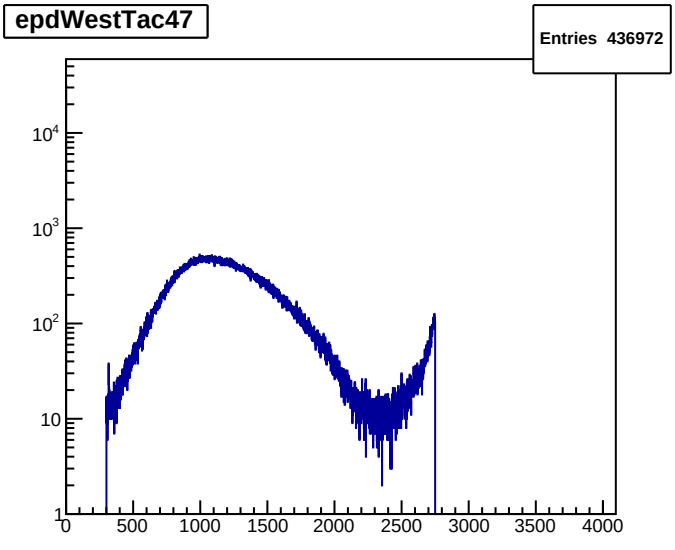
Entries 0
Data
Simu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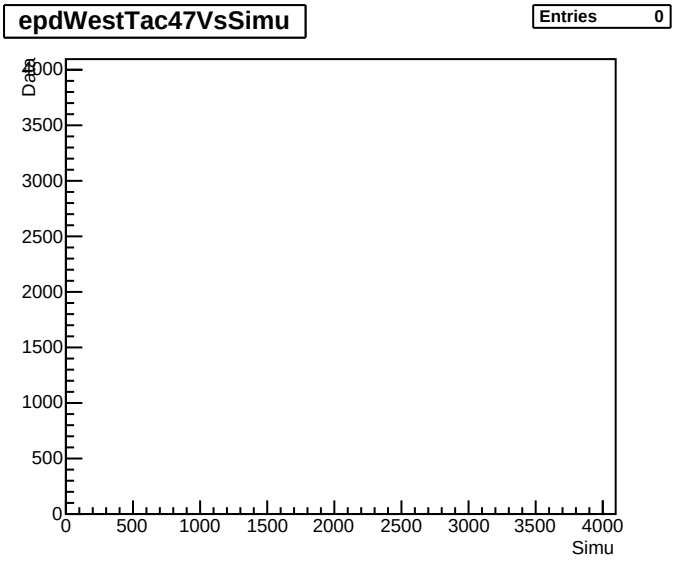
Entries 436972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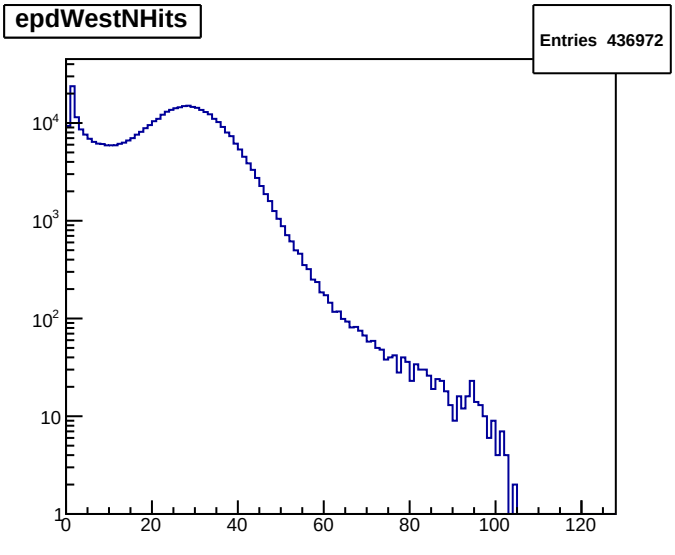
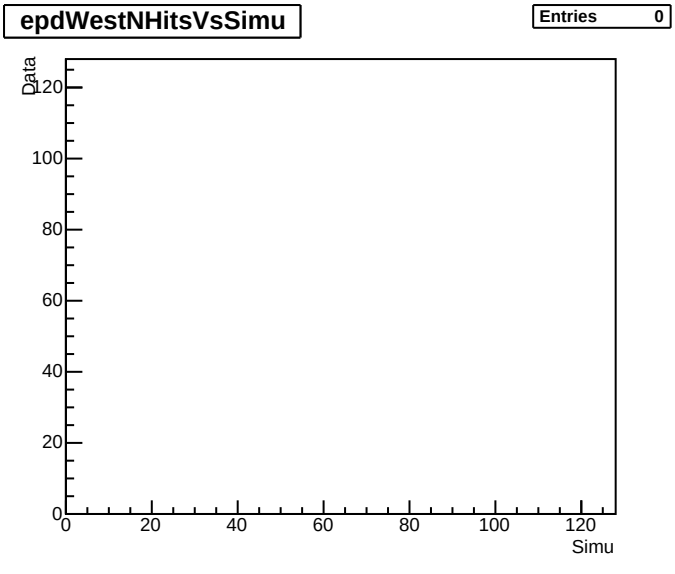
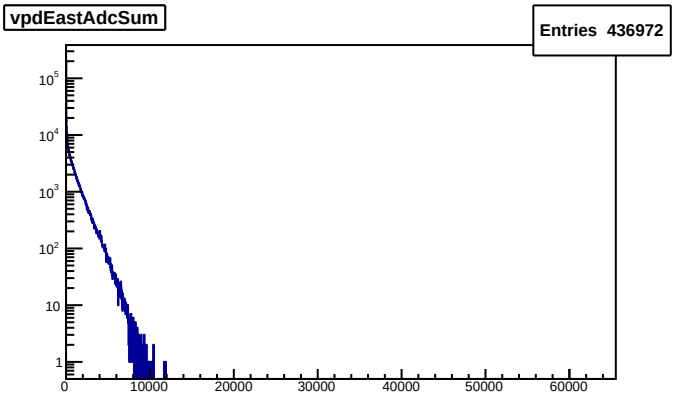
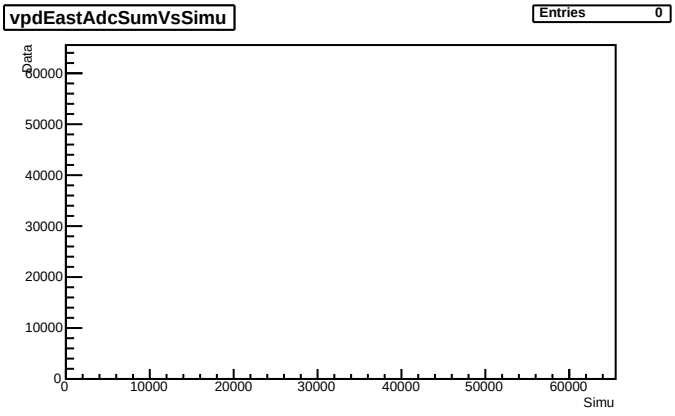
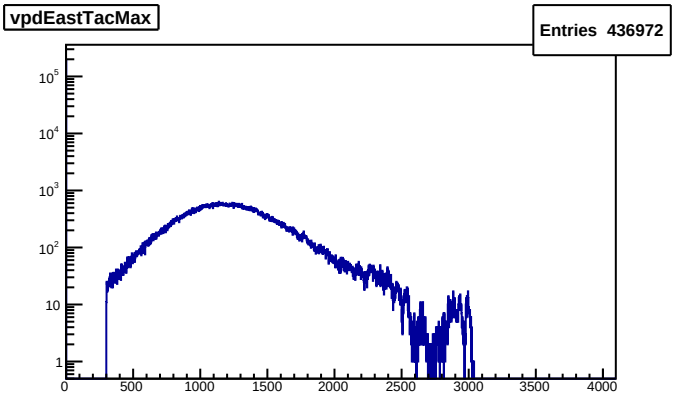
Entries 0
Data
Simu

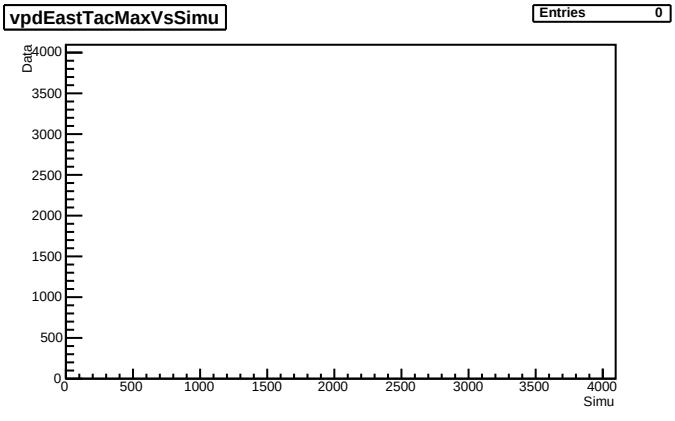

epdWestNHits
Entries 436972

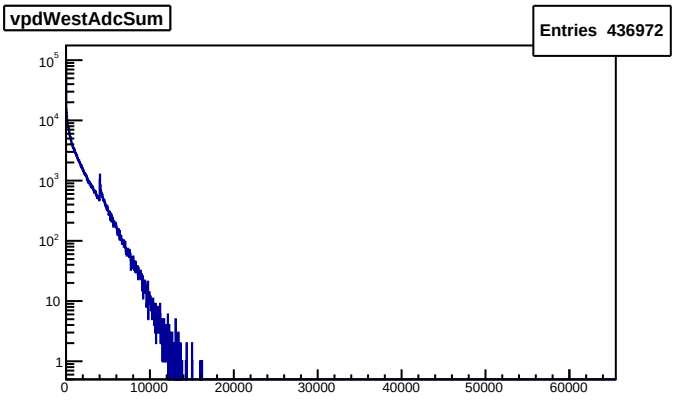

epdWestNHitsVsSimu
Entries 0
Data
Simu

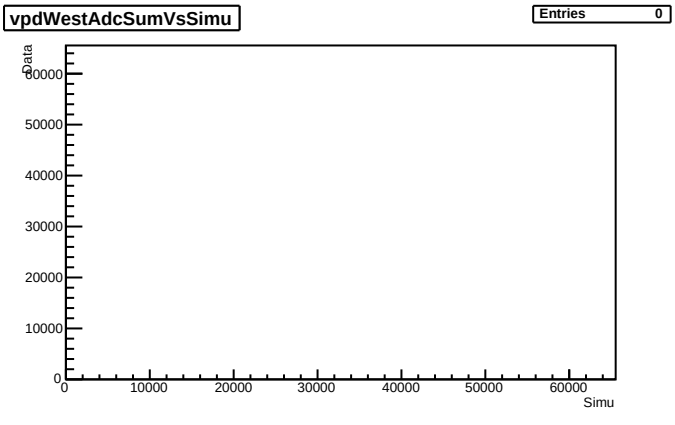

vpdEastAdcSum
Entries 436972

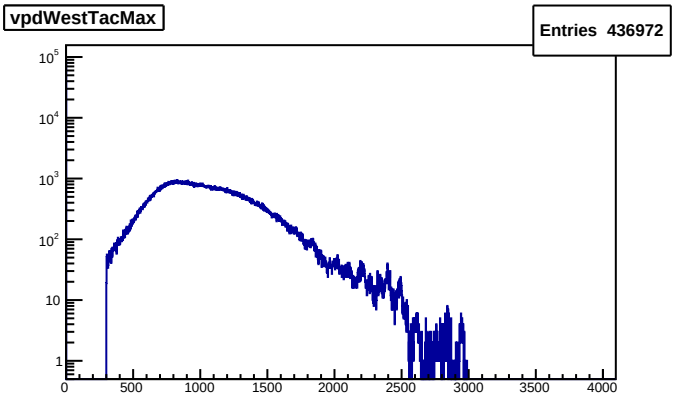

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

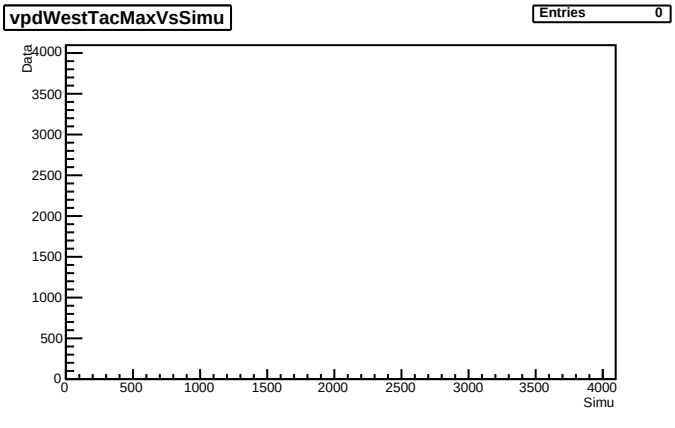

vpdEastTacMax
Entries 436972

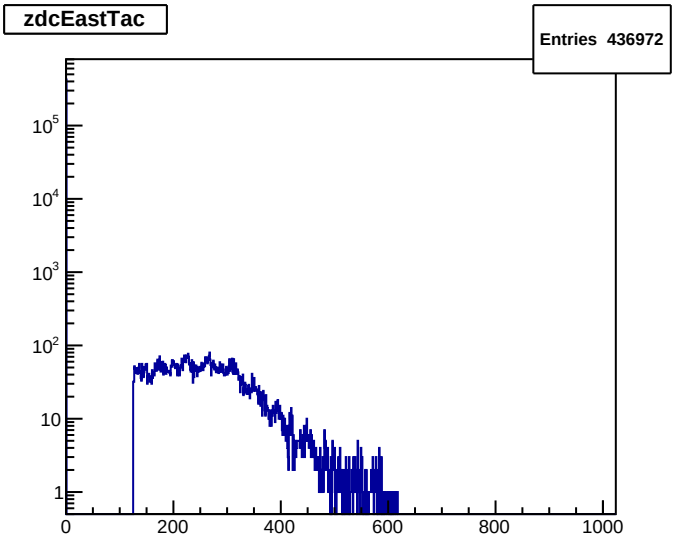

vpdEastTacMaxVsSimu
Entries 0
Data
Simu


vpdWestAdcSum
Entries 436972


vpdWestAdcSumVsSimu
Entries 0
Data
Simu


vpdWestTacMax
Entries 436972


vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 436972
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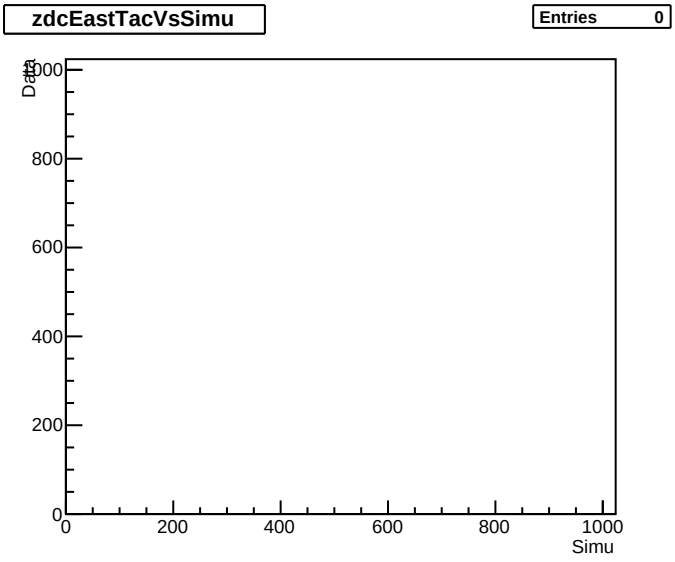
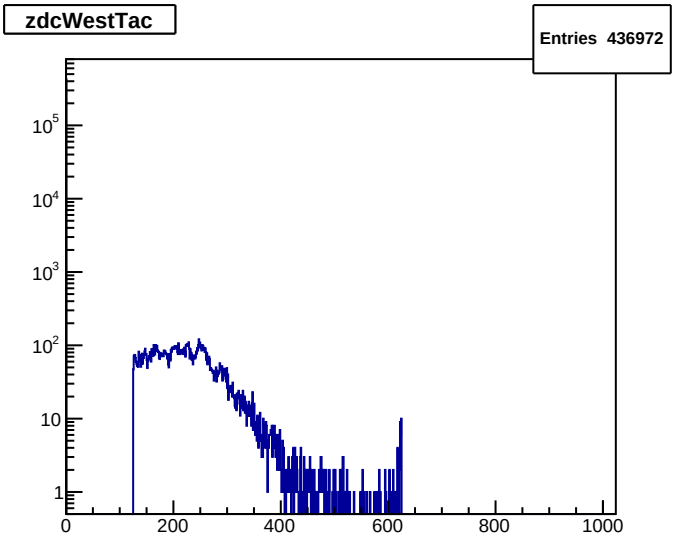
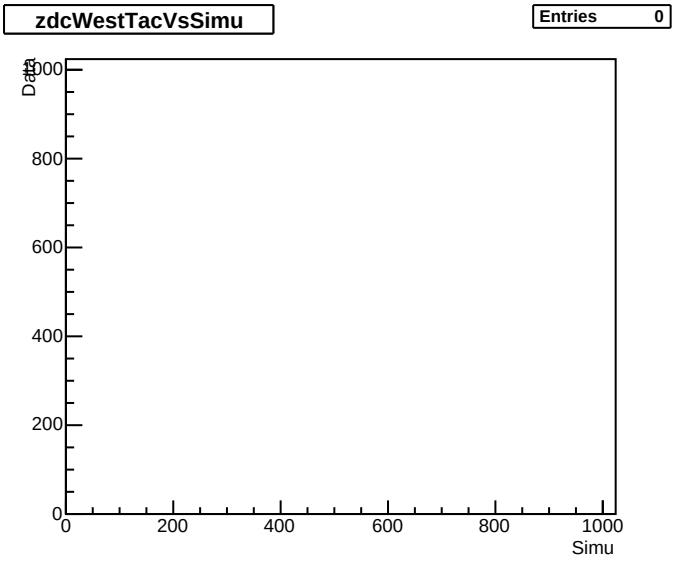
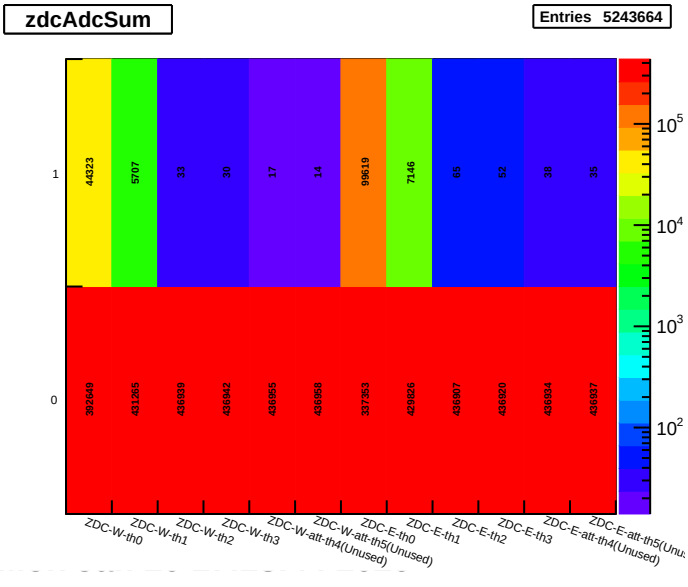
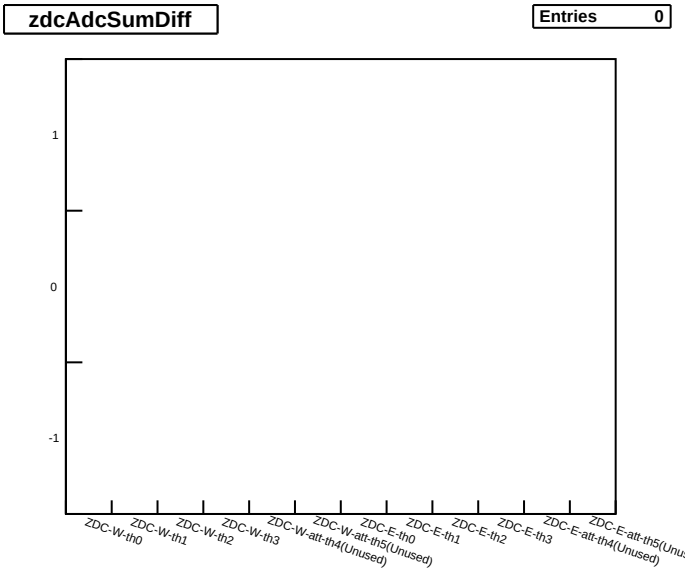
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000

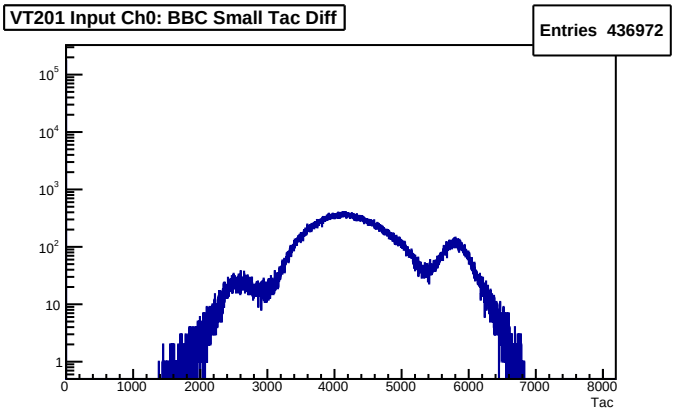

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

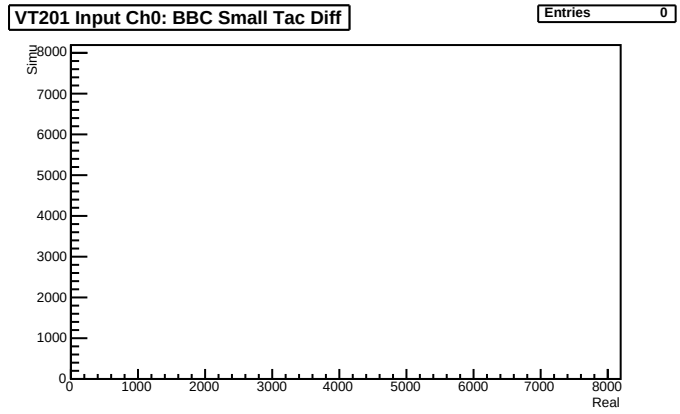

zdcWestTac
Entries 436972
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000

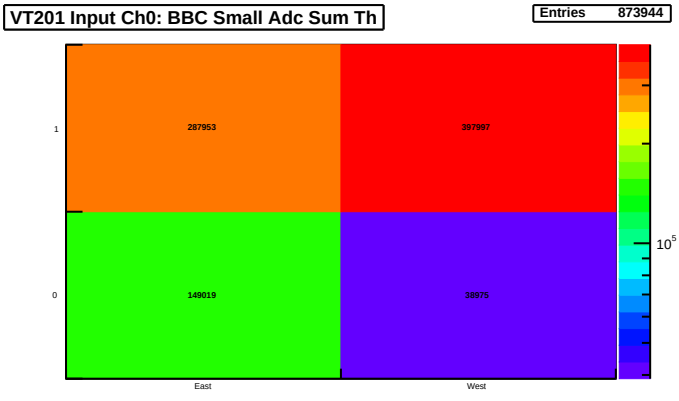

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

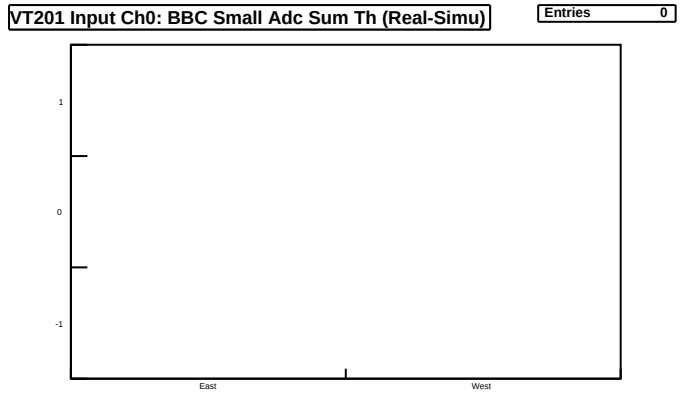

zdcAdcSum
Entries 5243664
1
0
44323
5707
33
30
17
14
99619
7146
65
52
38
35
392649
431265
436939
436942
436955
436958
337353
429826
436907
436920
436934
436937
$10^5$
$10^4$
$10^3$
$10^2$
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

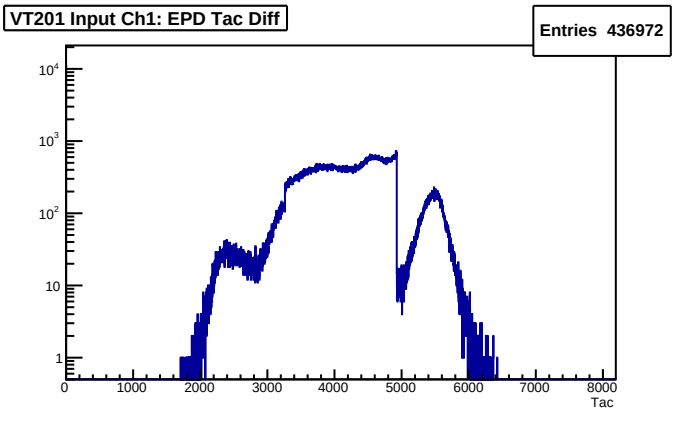

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

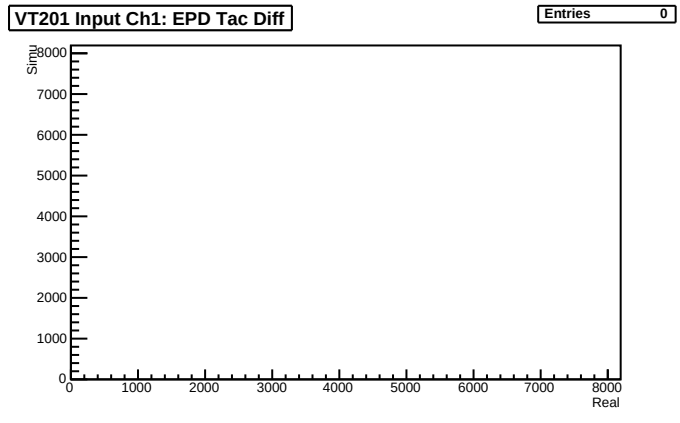

VT201 Input Ch0: BBC Small Tac Diff
Entries 436972
Tac

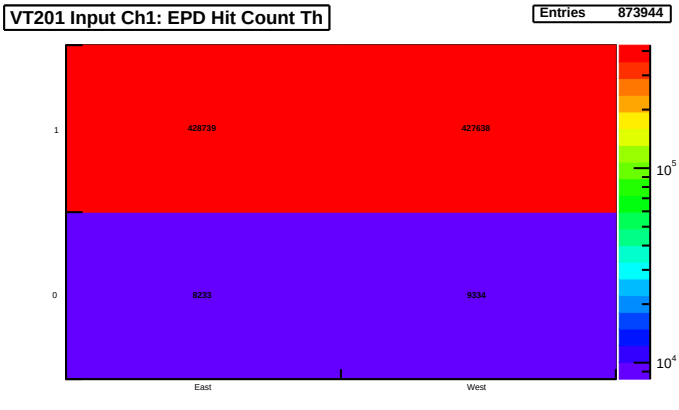

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

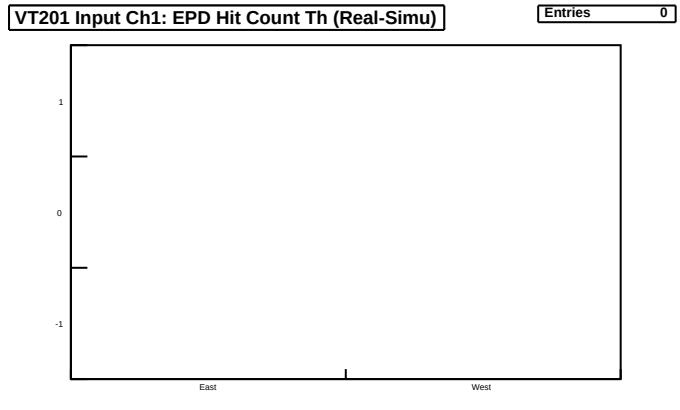

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 873944
287953
397997
149019
38975
East
West

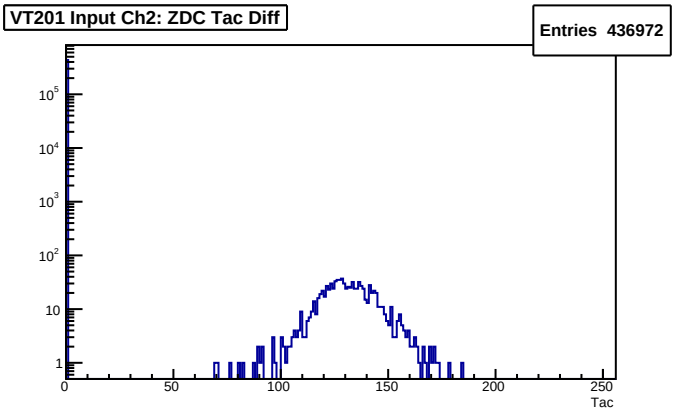

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

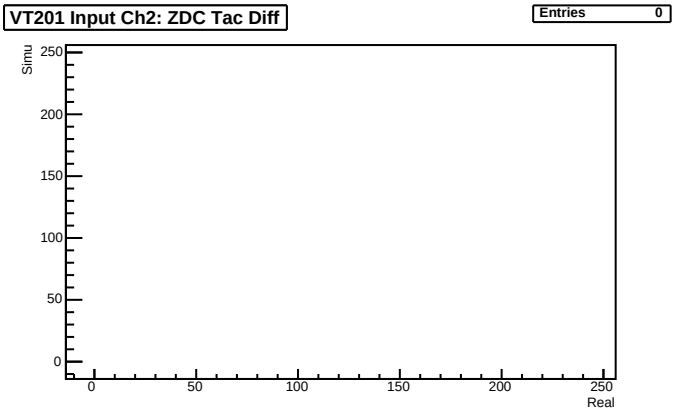

VT201 Input Ch1: EPD Tac Diff
Entries 436972
Tac

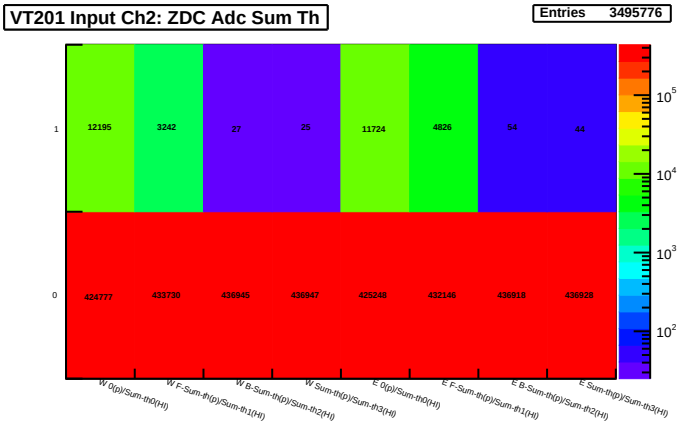

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

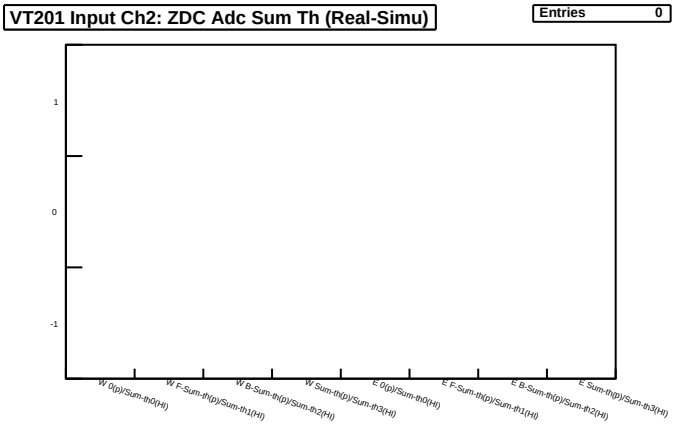

VT201 Input Ch1: EPD Hit Count Th
Entries 873944
428739
427638
8233
9334
East
West

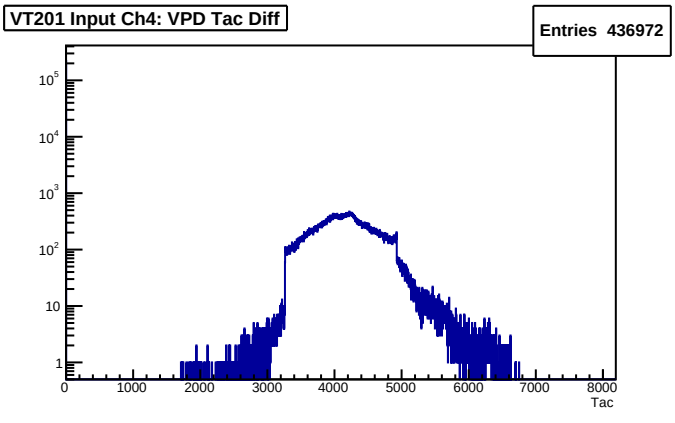

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

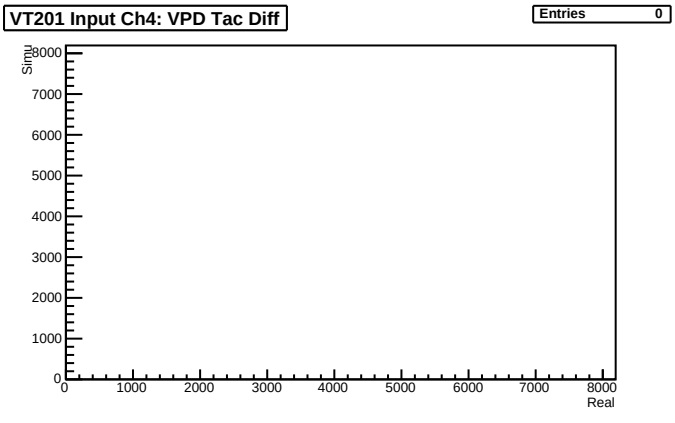

VT201 Input Ch2: ZDC Tac Diff
Entries 436972
Tac

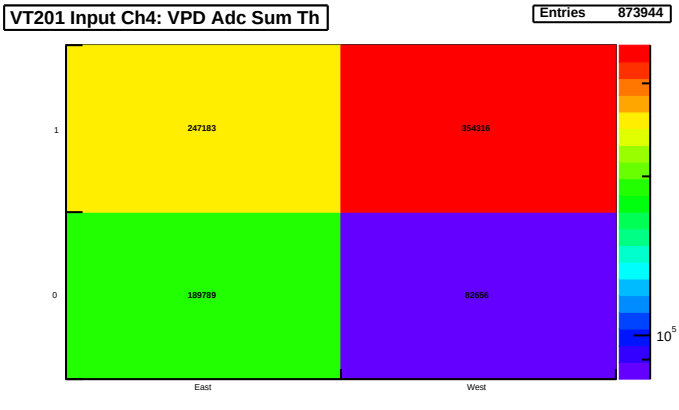

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

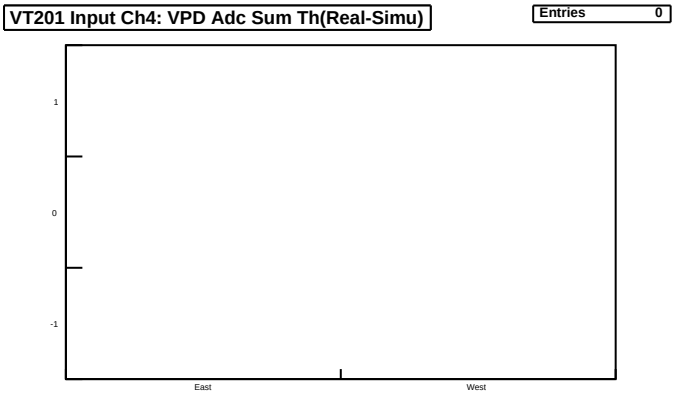

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3495776
12195
3242
27
25
11724
4826
54
44
424777
433730
436945
436947
425248
432146
436918
436928
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

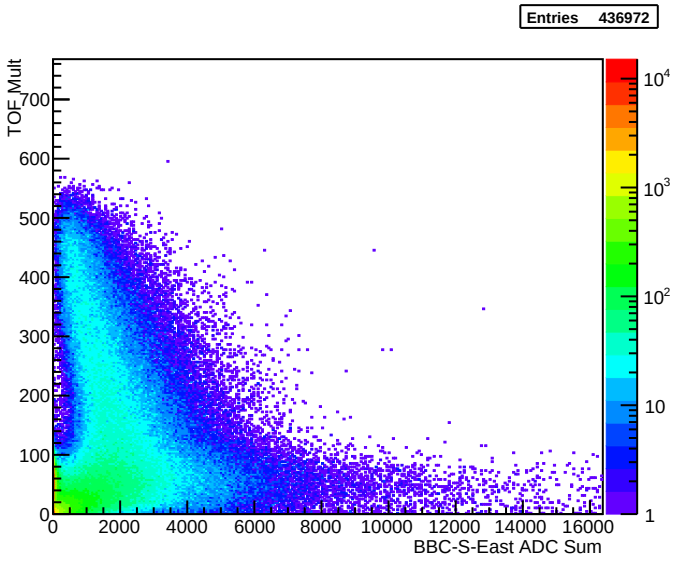

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

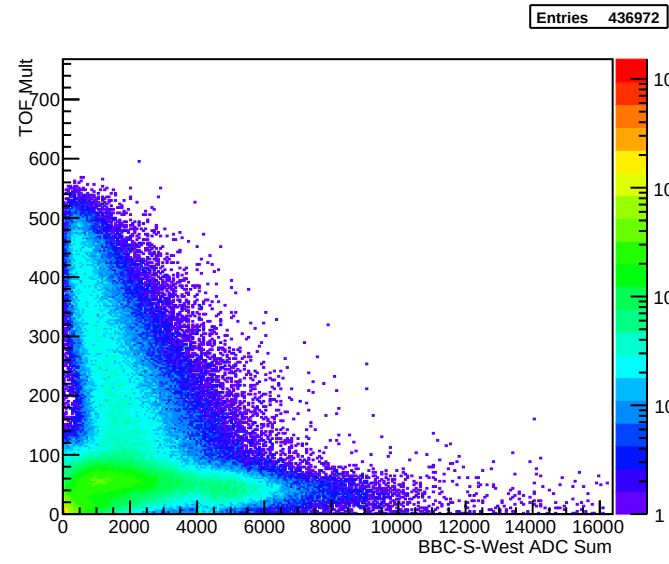

VT201 Input Ch4: VPD Tac Diff
Entries 436972
Tac

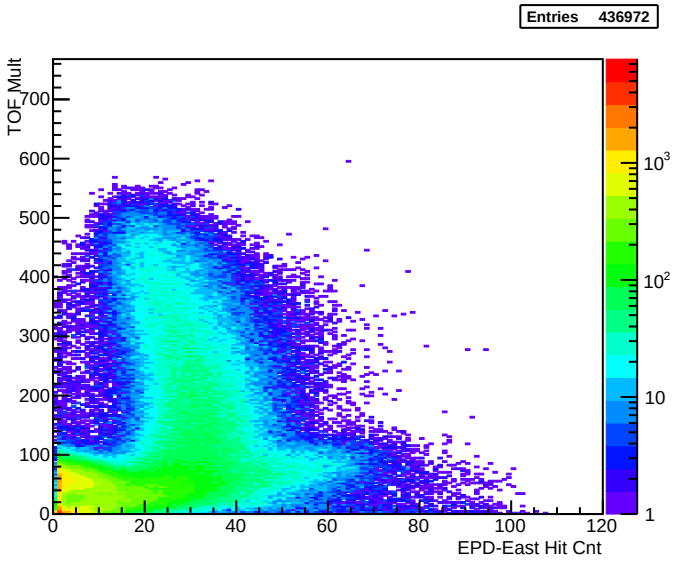

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

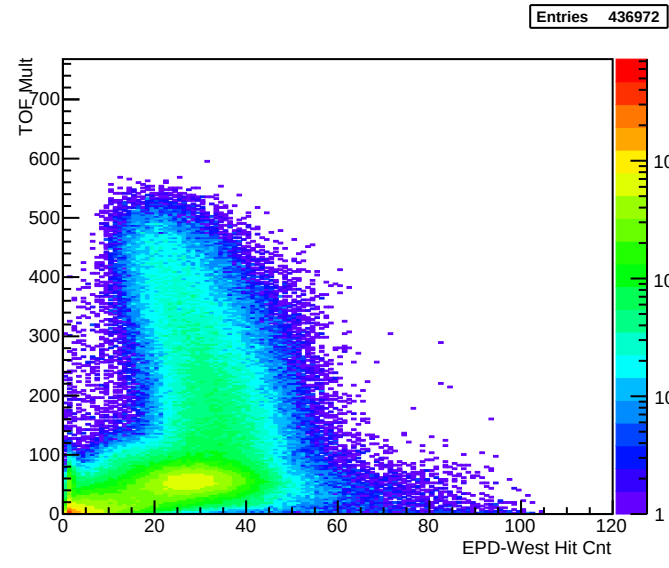

VT201 Input Ch4: VPD Adc Sum Th
Entries 873944
247183
354316
189789
82656
East
West

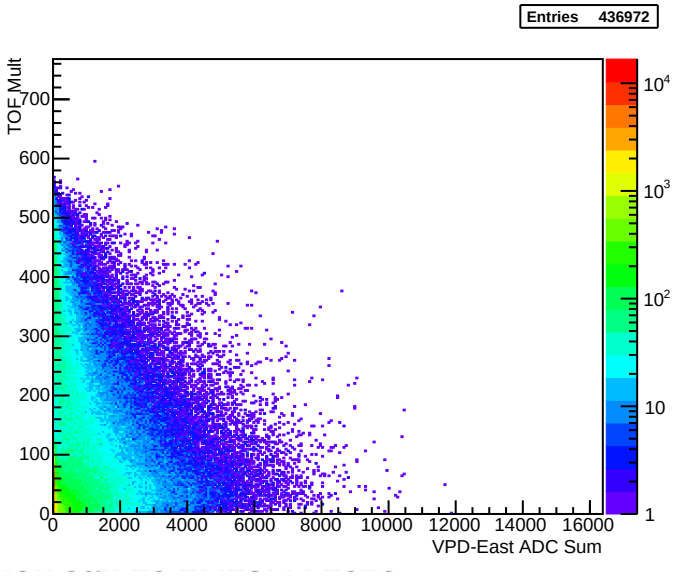

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

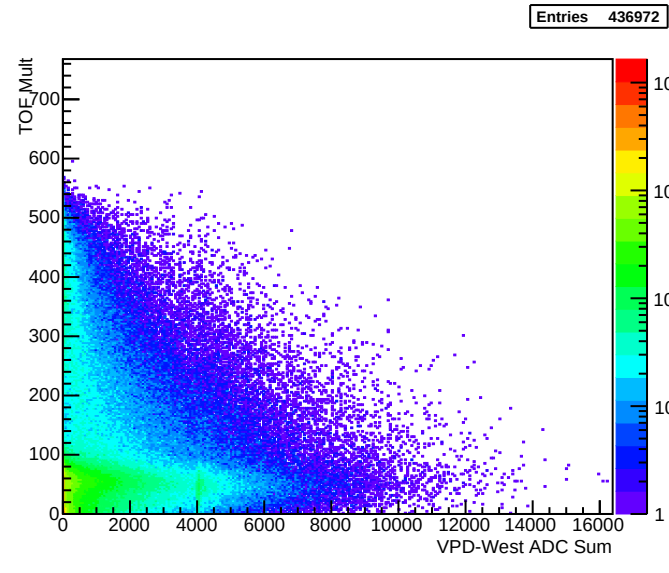

Entries 436972
TOF_Mult
BBC-S-East ADC Sum

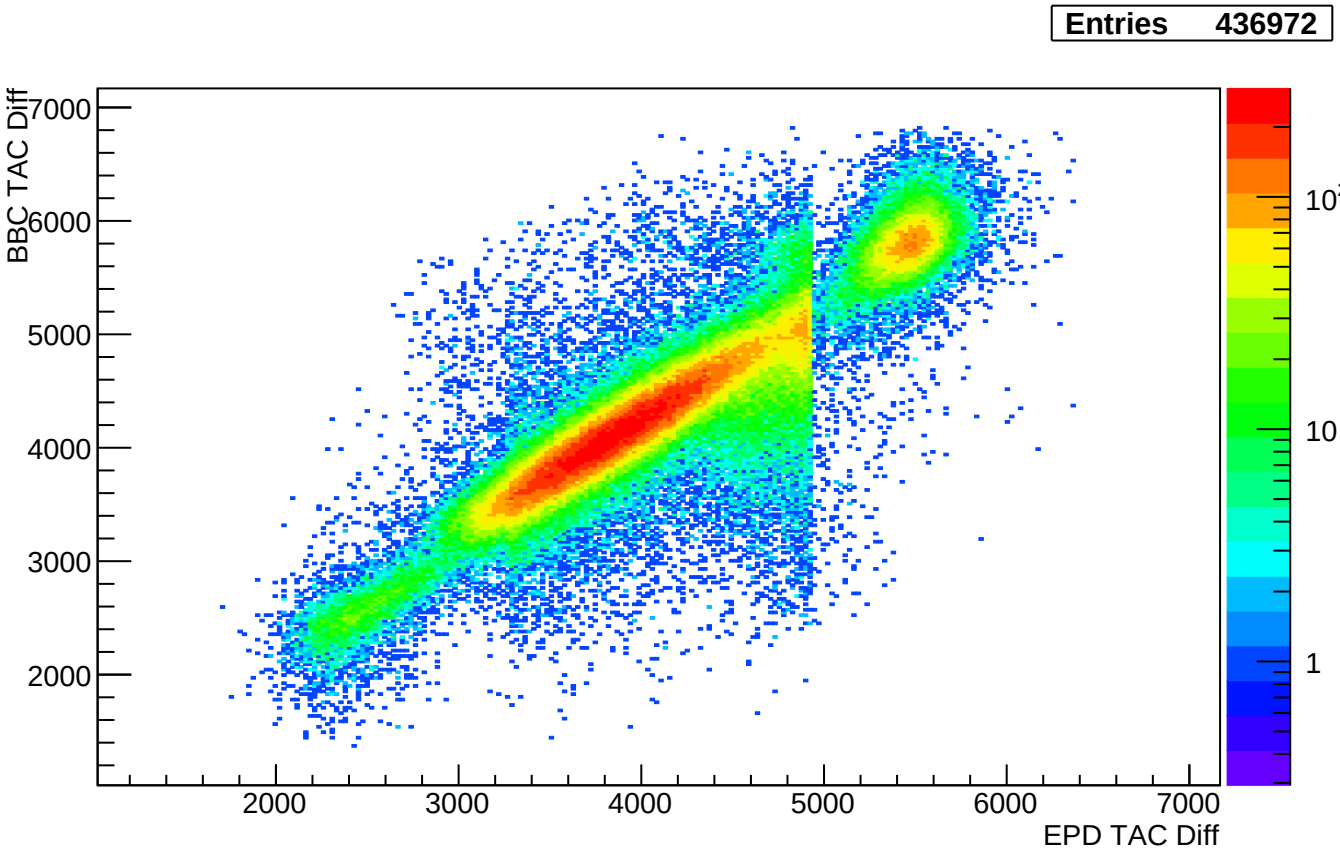

Entries 436972
TOF_Mult
BBC-S-West ADC Sum

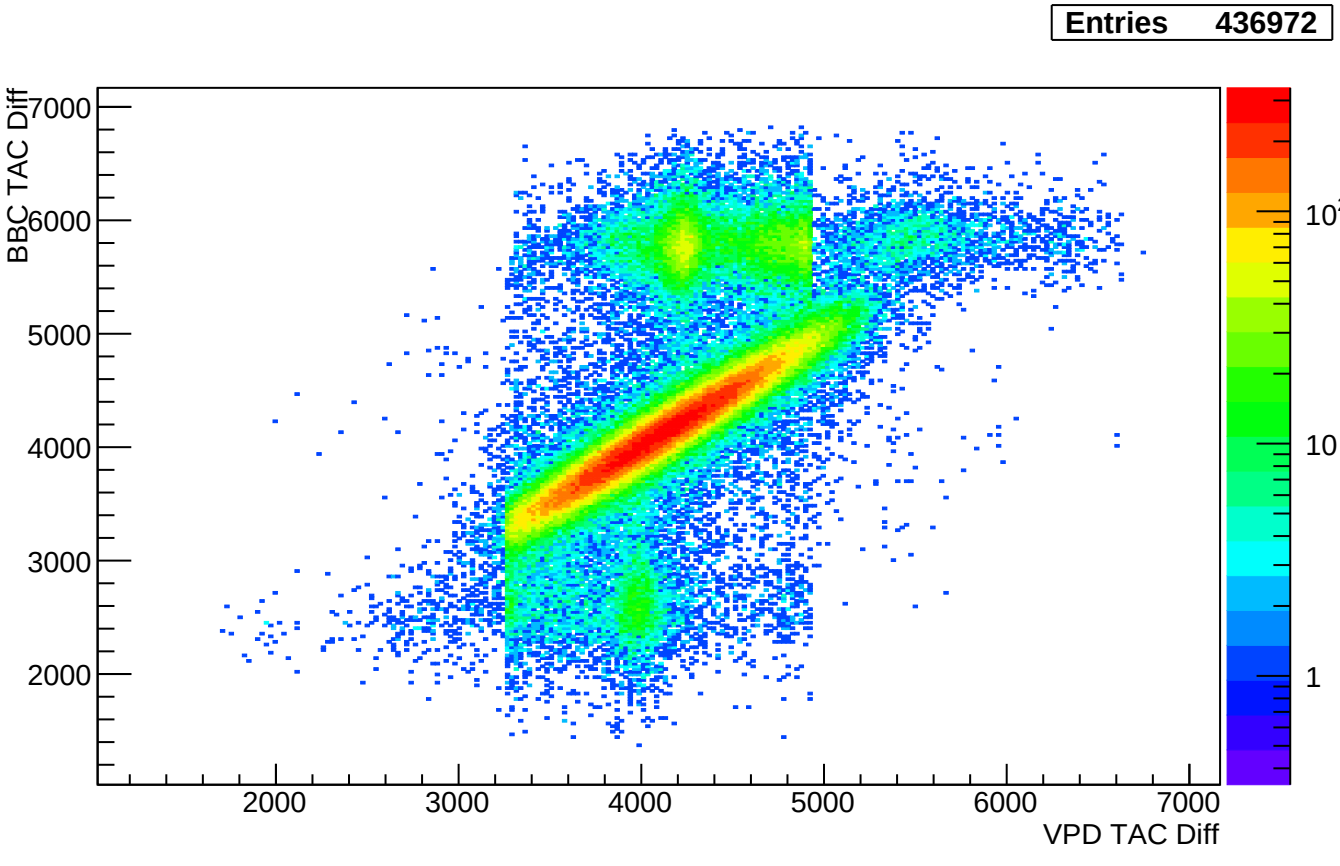

Entries 436972
TOF_Mult
EPD-East Hit Cnt

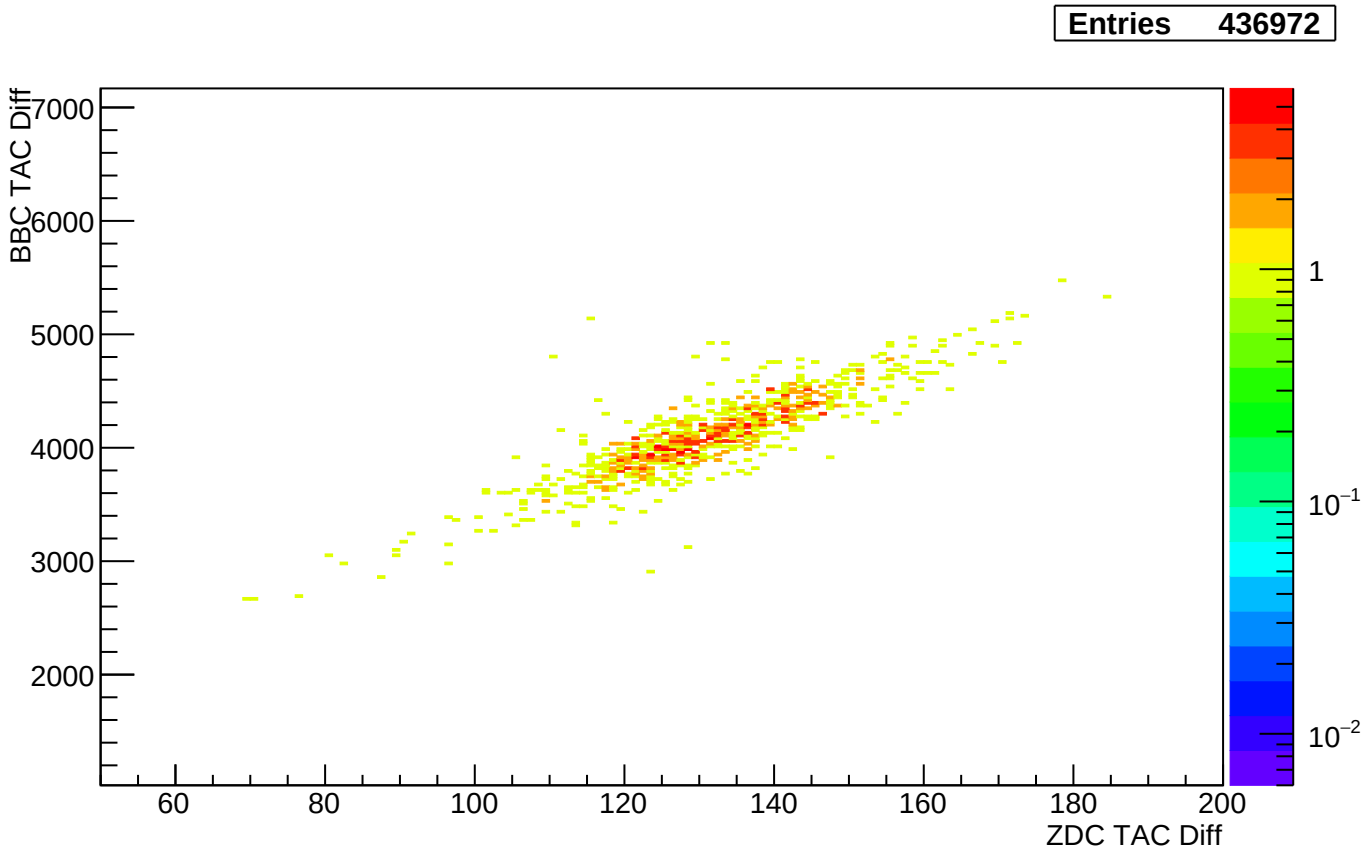

Entries 436972
TOF_Mult
EPD-West Hit Cnt

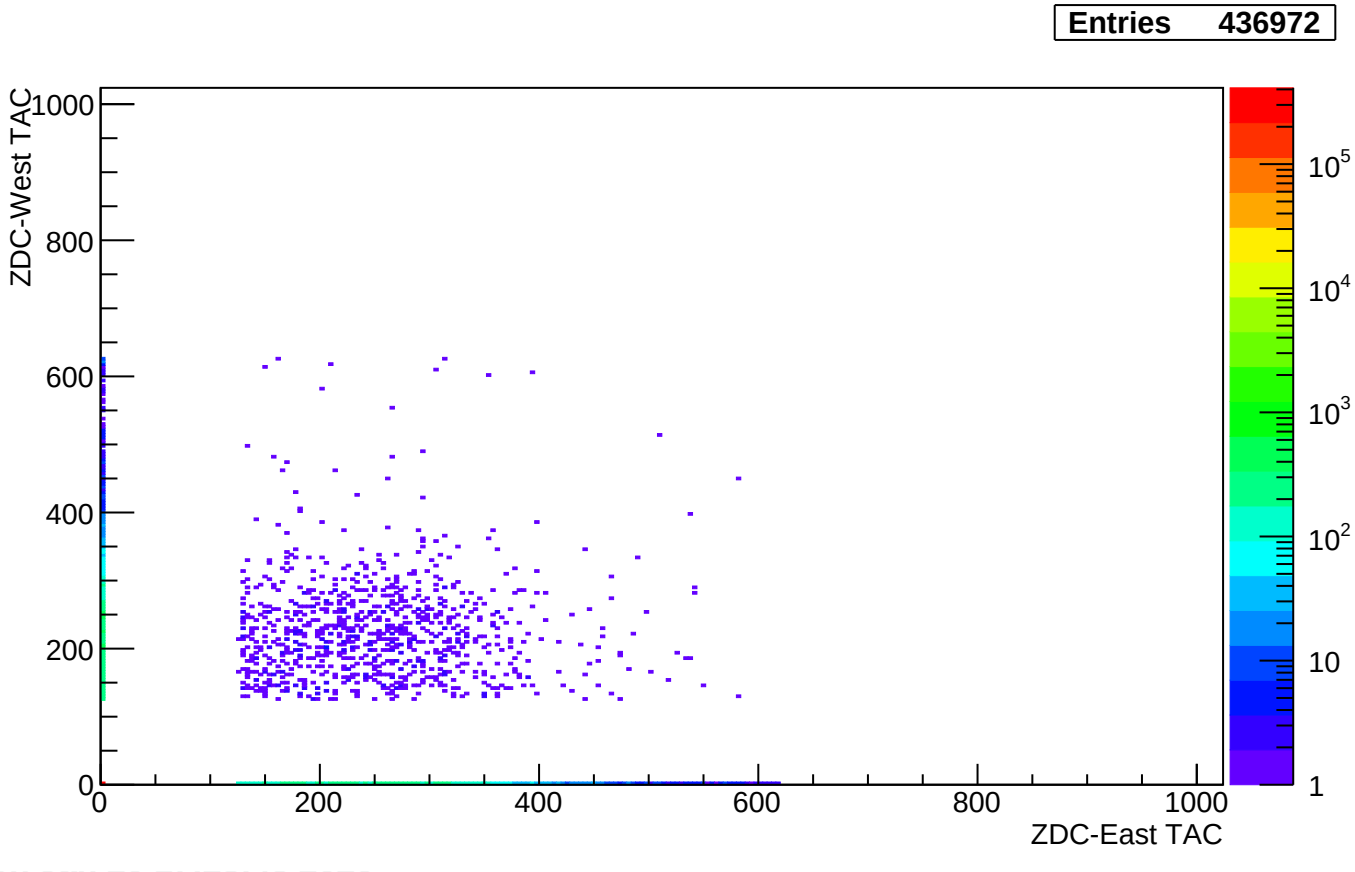

Entries 436972
TOF_Mult
VPD-East ADC Sum

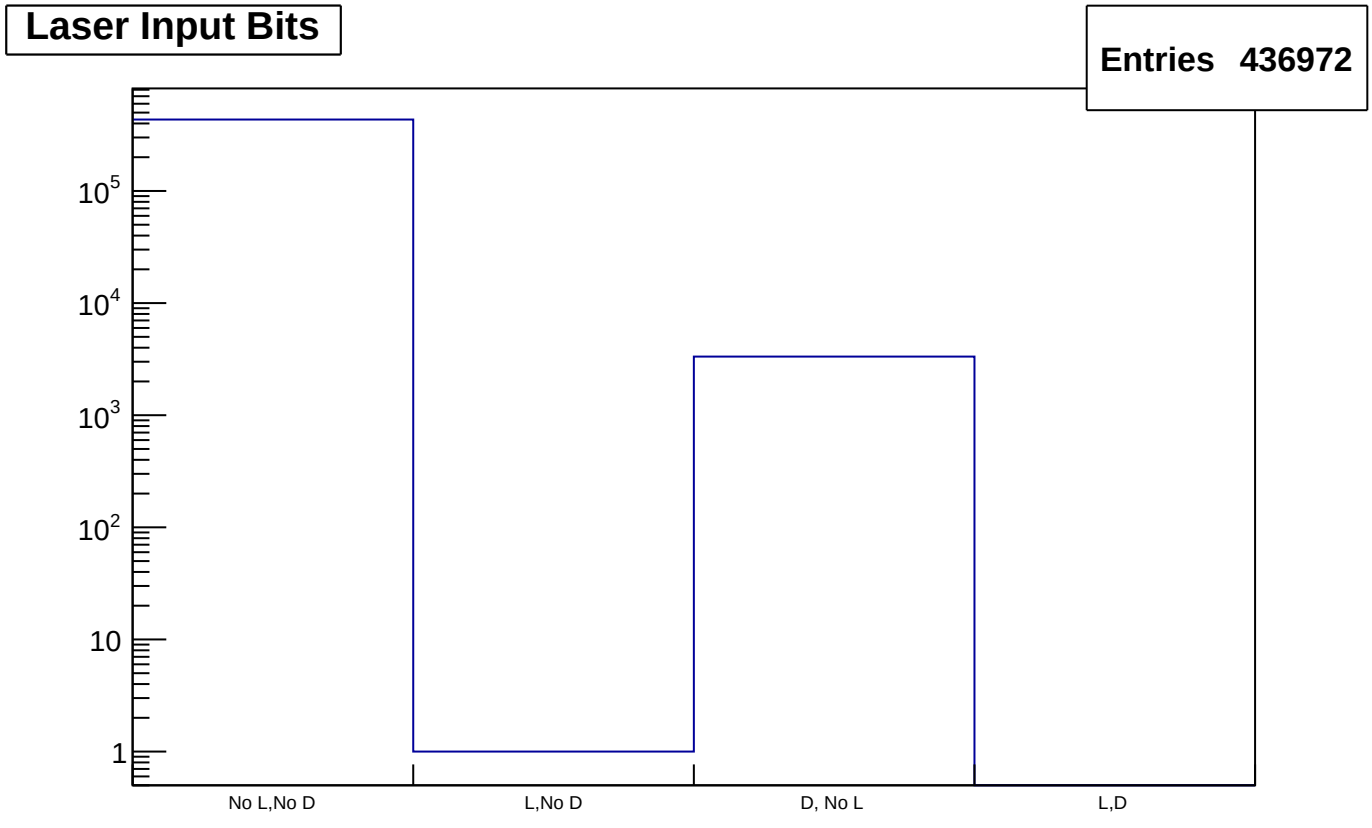

Entries 436972
TOF_Mult
VPD-West ADC Sum

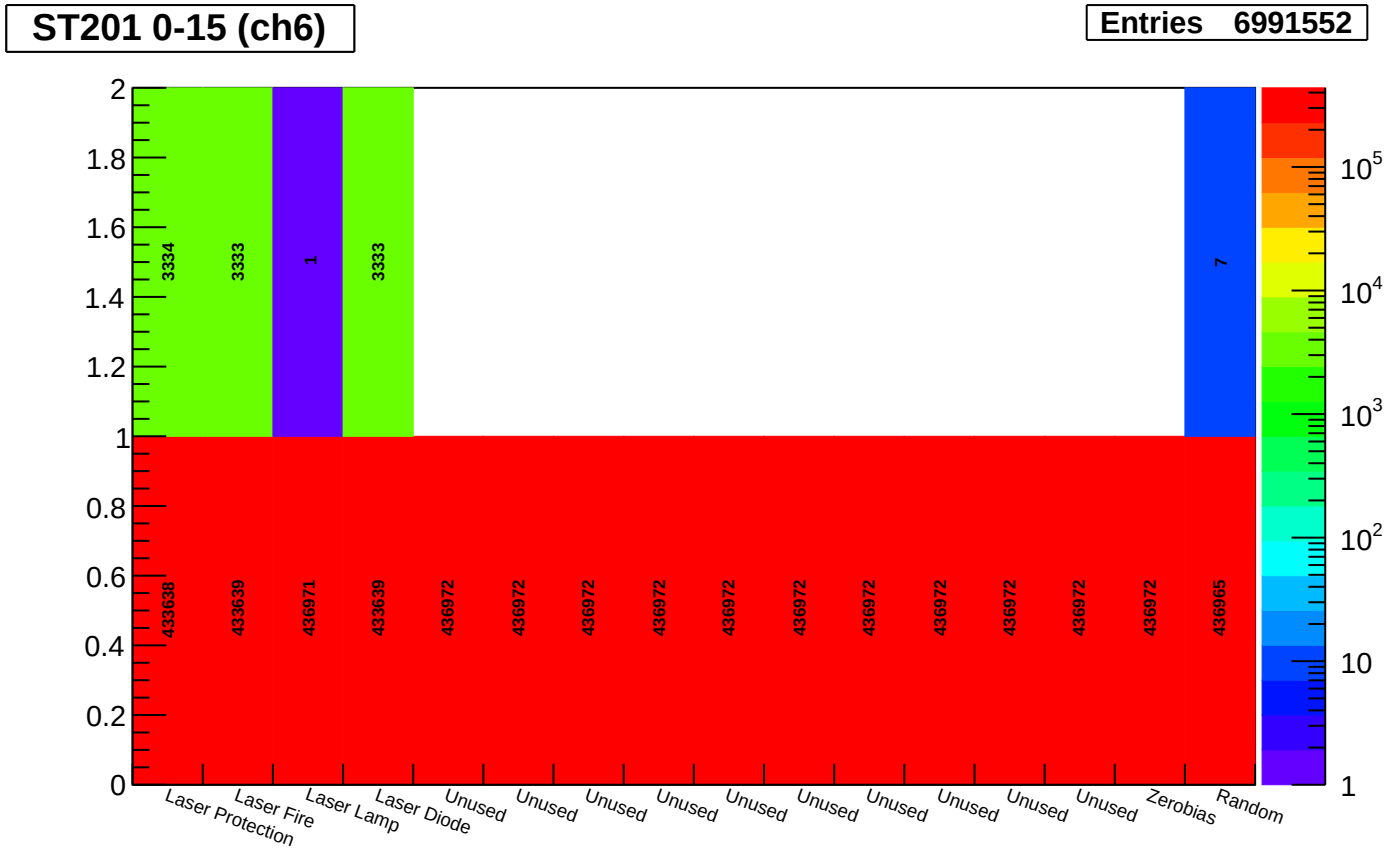

Entries 436972
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
$10^2$
10
1

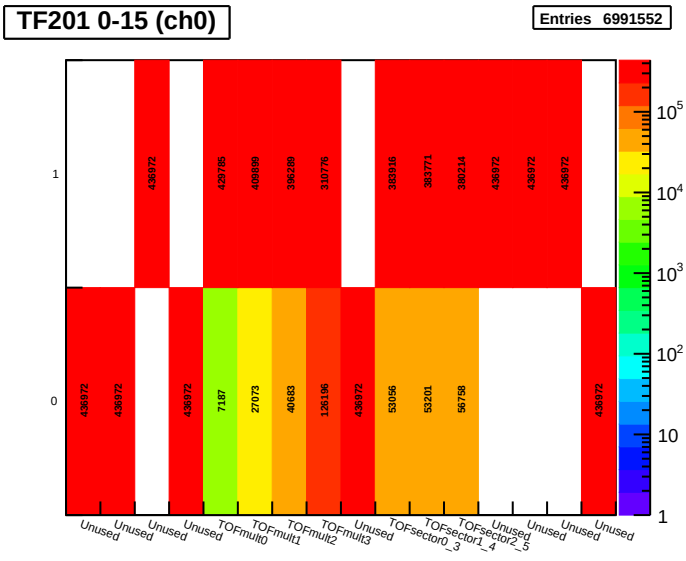

Entries 436972
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
$10^2$
10
1

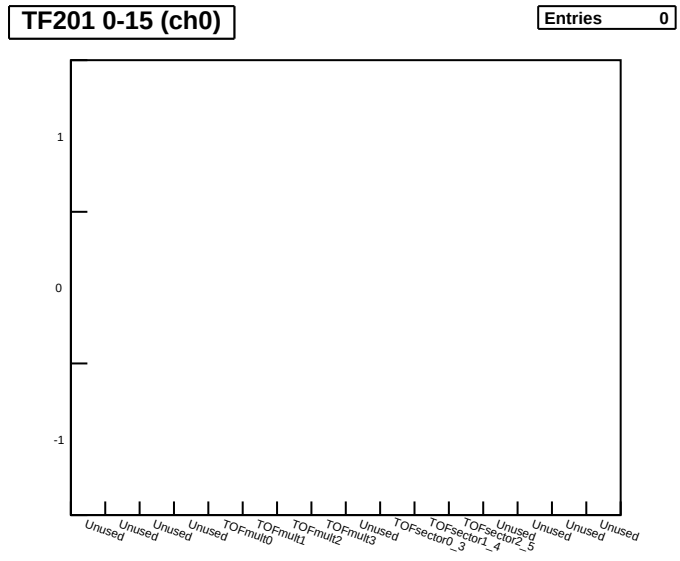

Entries 436972
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
$10^{-1}$
$10^{-2}$

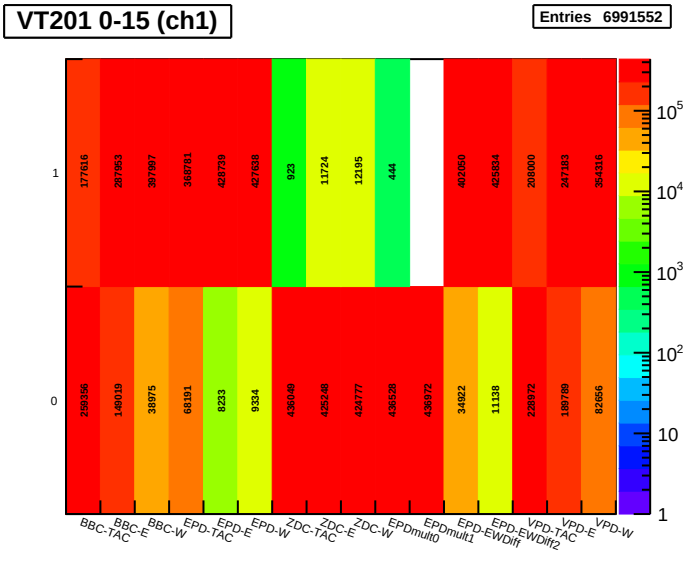

Entries 436972
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^5$
$10^4$
$10^3$
$10^2$
10
1

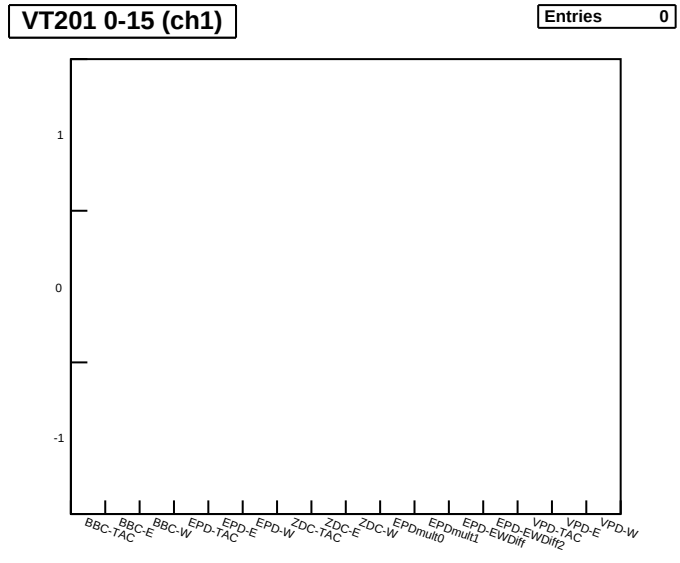

Laser Input Bits
Entries 436972
$10^5$
$10^4$
$10^3$
$10^2$
10
1
No L,No D
L,No D
D, No L
L,D

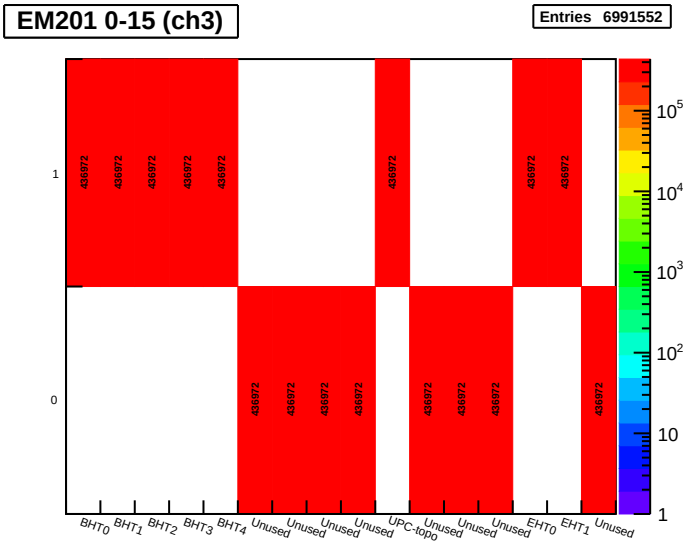

ST201 0-15 (ch6)
Entries 6991552
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3334
3333
1
3333
7
433638
433639
436971
433639
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436965
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
$10^5$
$10^4$
$10^3$
$10^2$
10
1

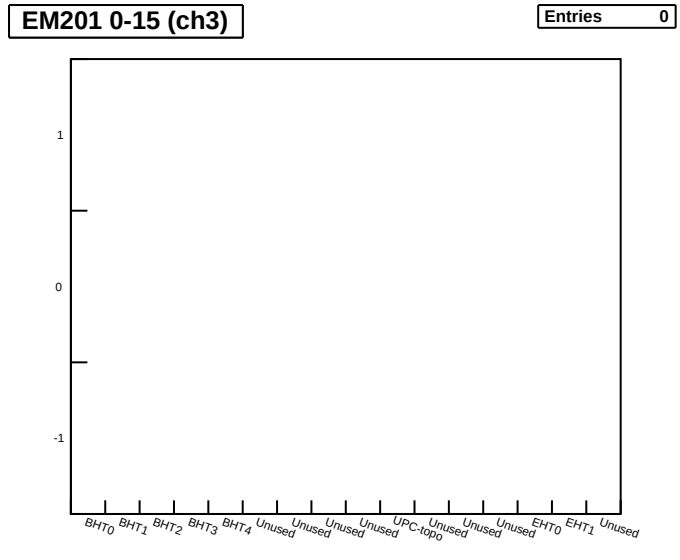

TF201 0-15 (ch0)
Entries 6991552
1
0
436972
429785
409899
396289
310776
383916
383771
380214
436972
436972
436972
436972
436972
436972
7187
27073
40683
126196
436972
53056
53201
56798
436972
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
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


VT201 0-15 (ch1)
Entries 6991552
1
0
177616
287953
397997
368781
428739
427638
923
11724
12195
444
402050
425834
208000
247183
354316
259356
149019
38975
68191
8233
9334
436049
425248
424777
436528
436972
34922
11138
228972
189789
82656
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 6991552
1
0
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
436972
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