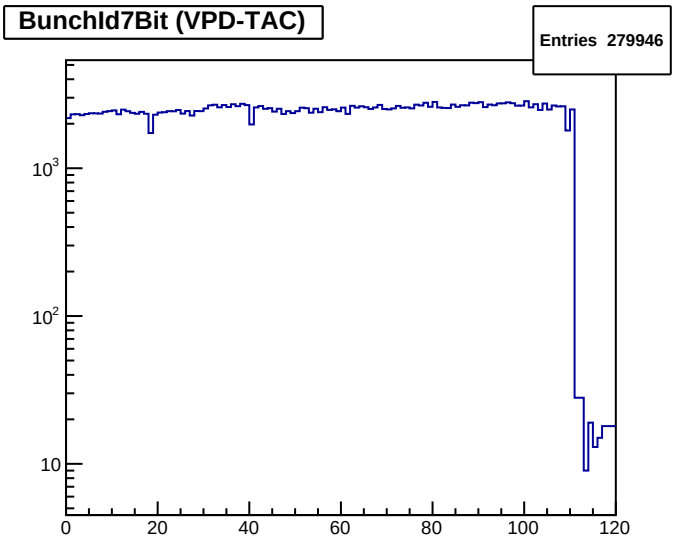
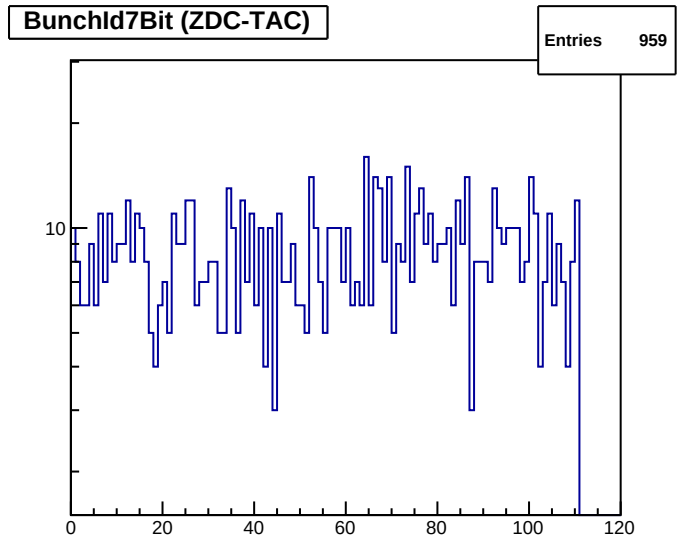
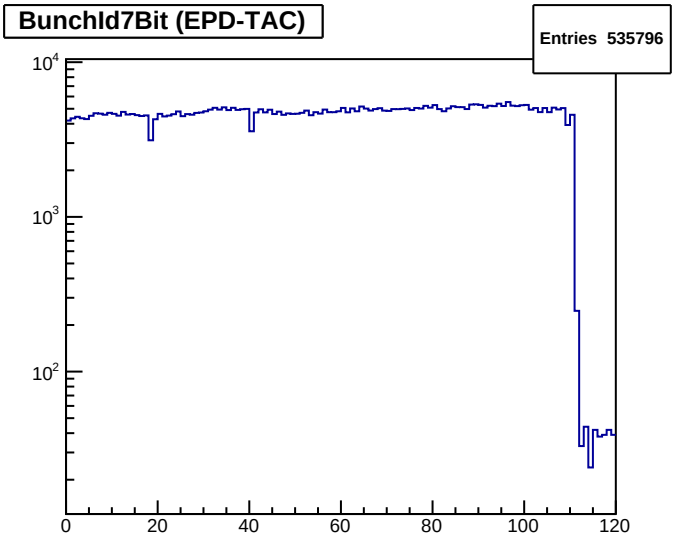
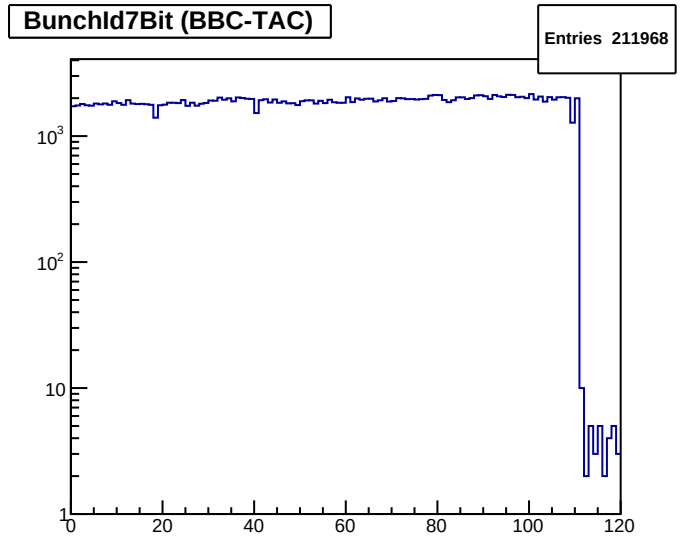
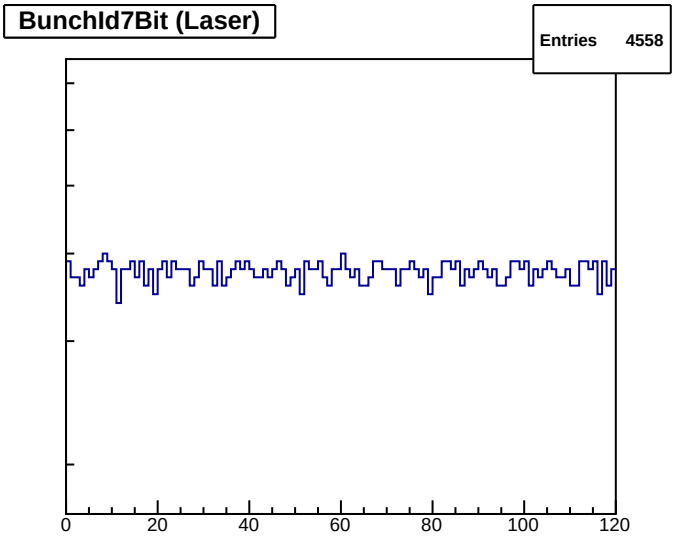
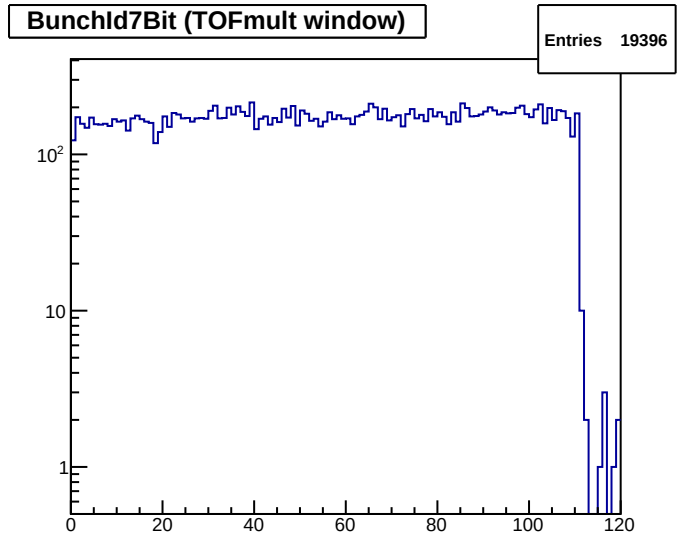

BunchId7Bit (VPD-TAC)
Entries 279946
10^3
10^2
10
0 20 40 60 80 100 120

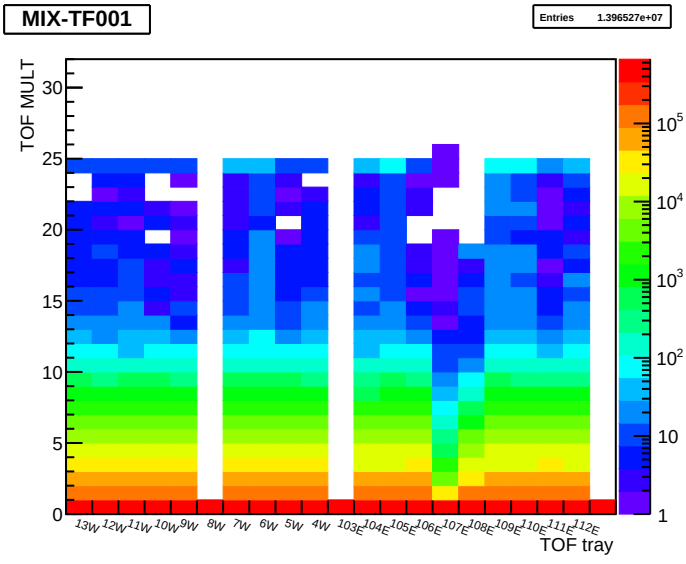

BunchId7Bit (ZDC-TAC)
Entries 959
10
0 20 40 60 80 100 120

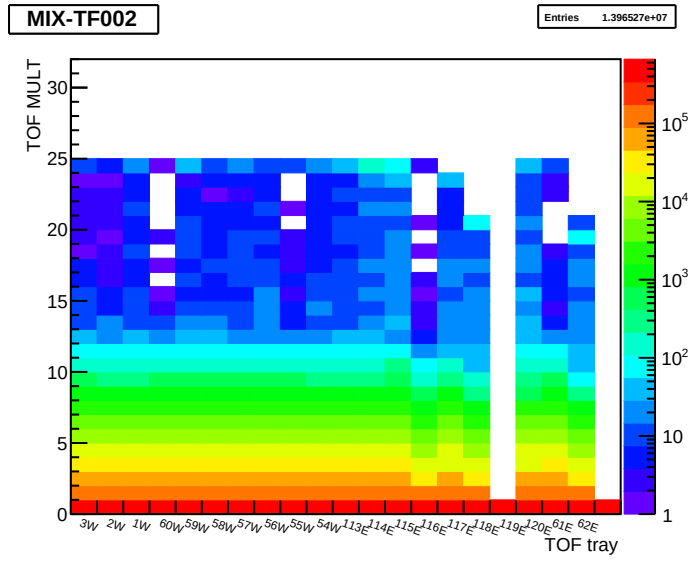

BunchId7Bit (EPD-TAC)
Entries 535796
10^4
10^3
10^2
0 20 40 60 80 100 120

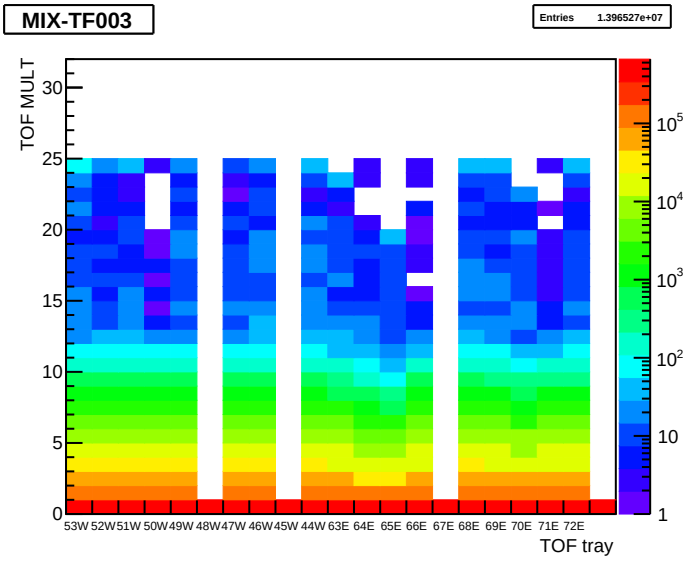

BunchId7Bit (BBC-TAC)
Entries 211968
10^3
10^2
10
1
0 20 40 60 80 100 120

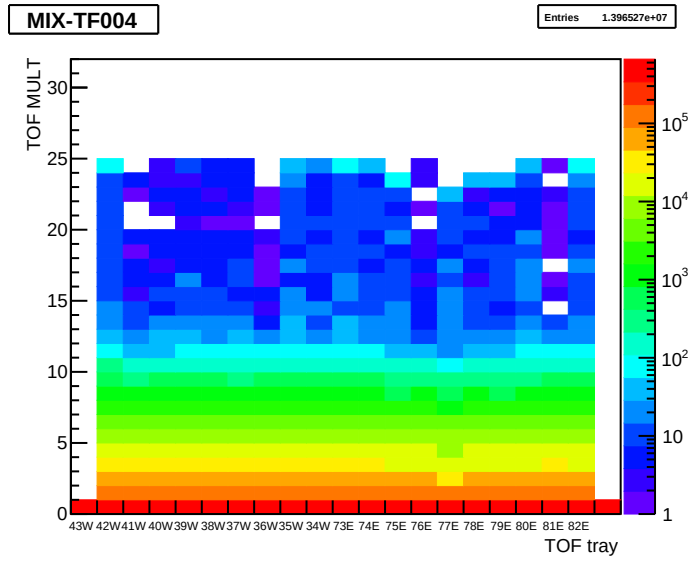

BunchId7Bit (Laser)
Entries 4558
0 20 40 60 80 100 120

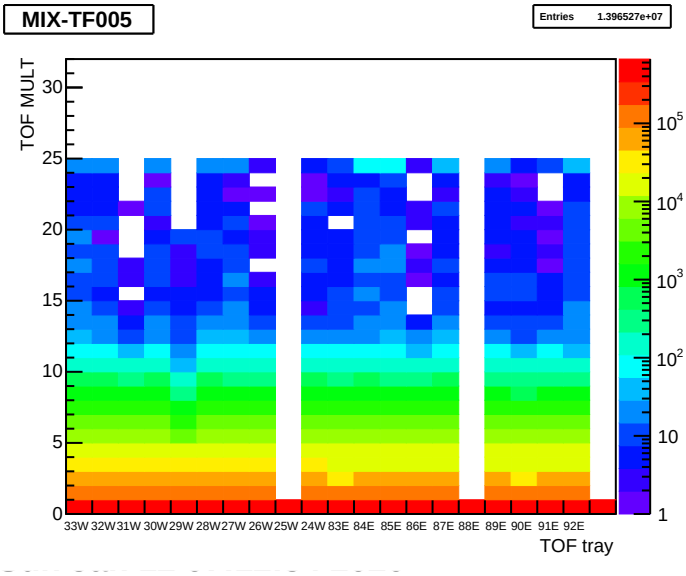

BunchId7Bit (TOFmult window)
Entries 19396
10^2
10
1
0 20 40 60 80 100 120

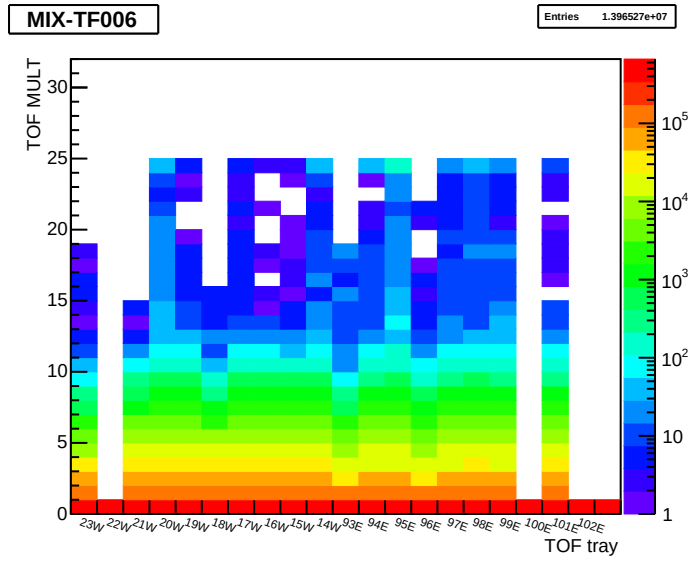

MIX-TF001
Entries 1.396527e+07
TOF MULT
TOF tray

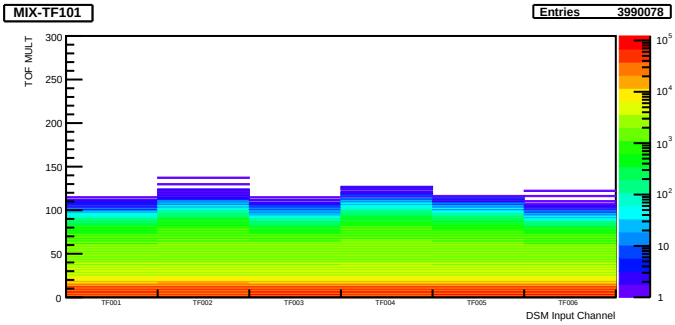

MIX-TF002
Entries 1.396527e+07
TOF MULT
TOF tray

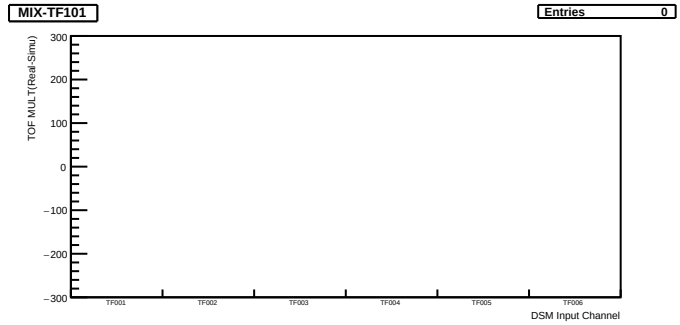

MIX-TF003
Entries 1.396527e+07
TOF MULT
TOF tray

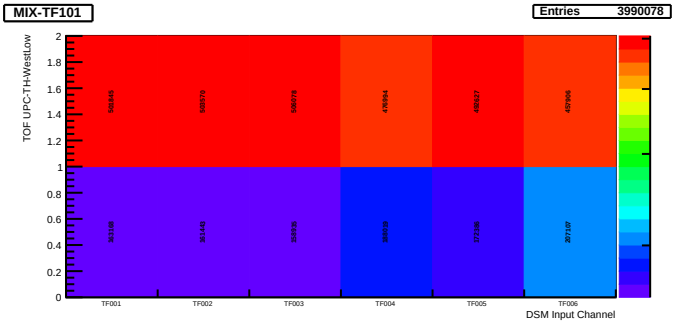

MIX-TF004
Entries 1.396527e+07
TOF MULT
TOF tray

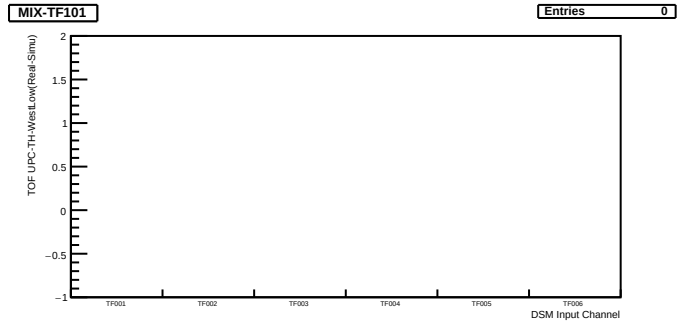

MIX-TF005
Entries 1.396527e+07
TOF MULT
TOF tray

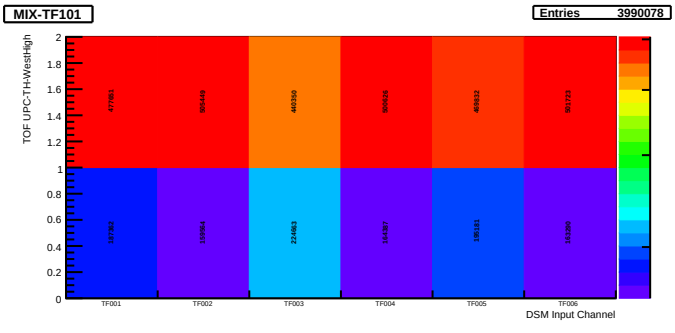

MIX-TF006
Entries 1.396527e+07
TOF MULT
TOF tray

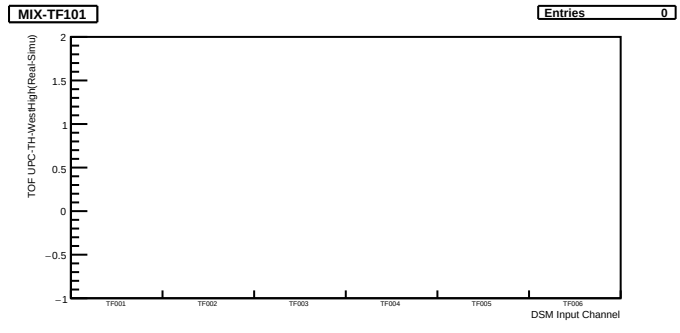

MIX-TF101
Entries 3990078
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

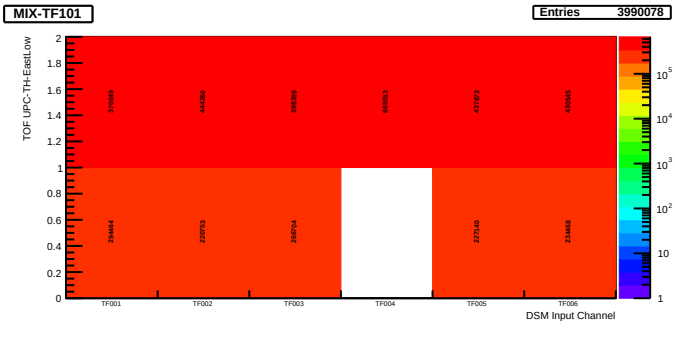

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

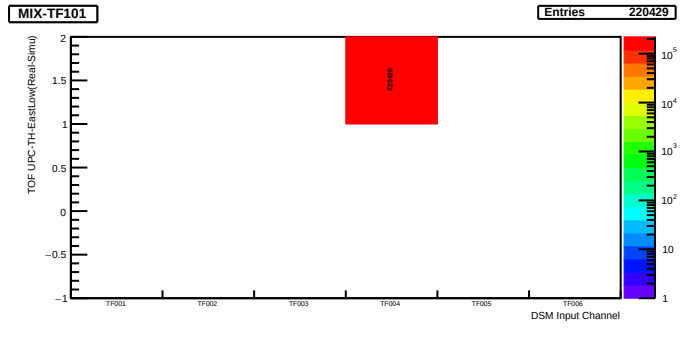

MIX-TF101
Entries 3990078
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

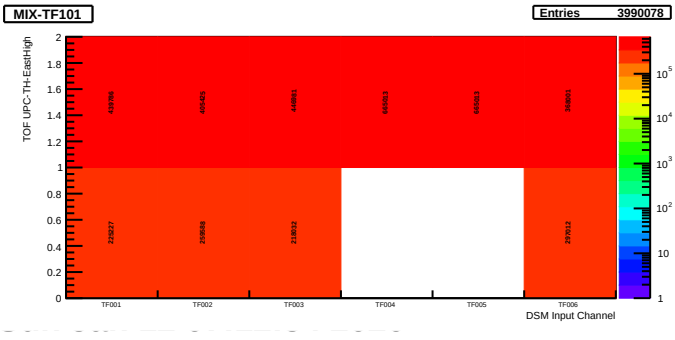

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

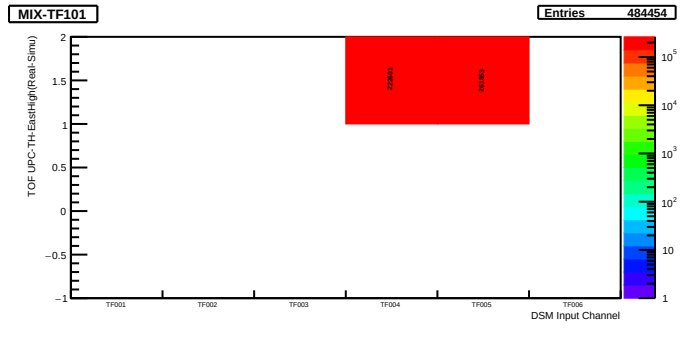

MIX-TF101
Entries 3990078
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

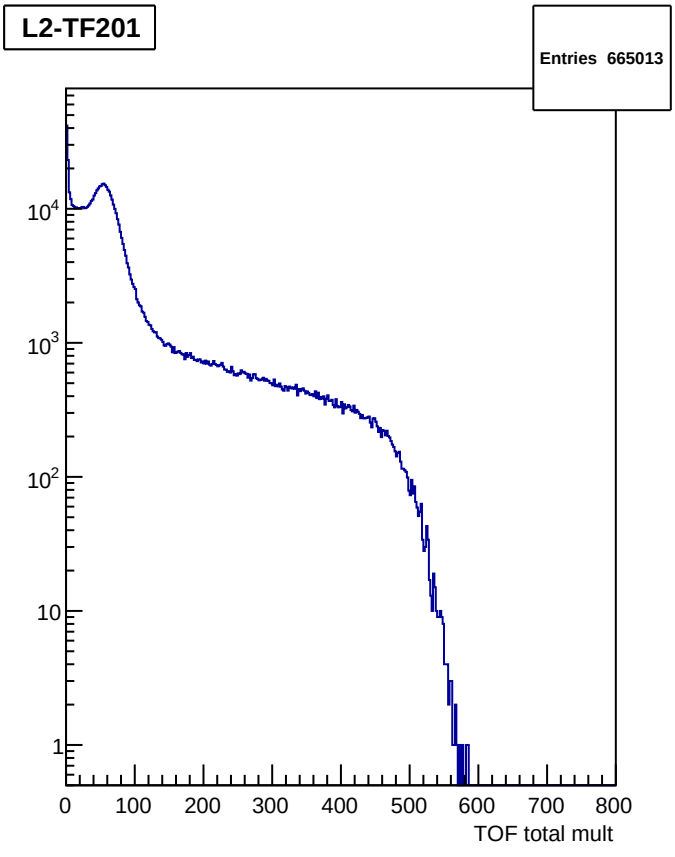

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

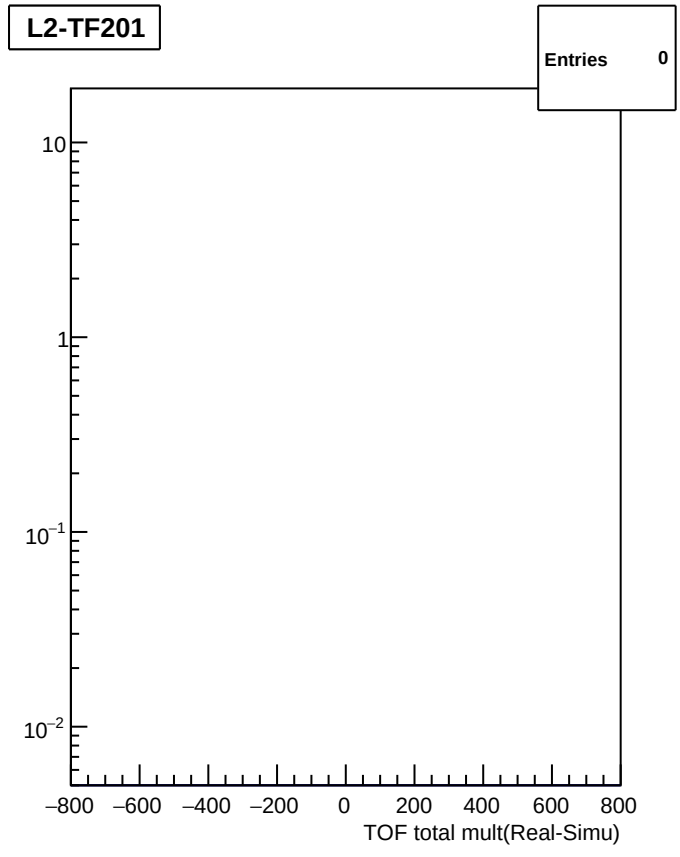

MIX-TF101
Entries 3990078
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

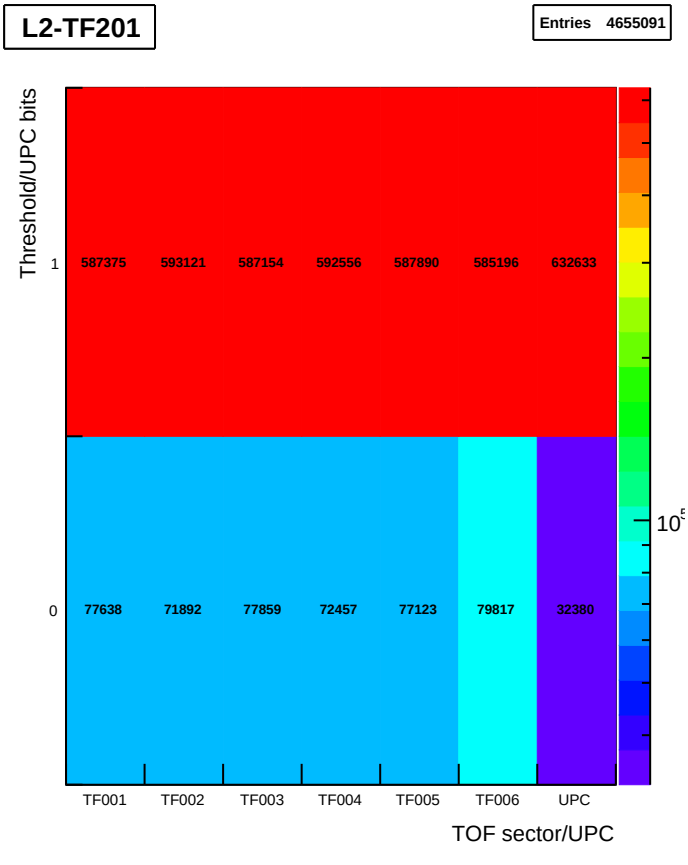

MIX-TF101
Entries 220429
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

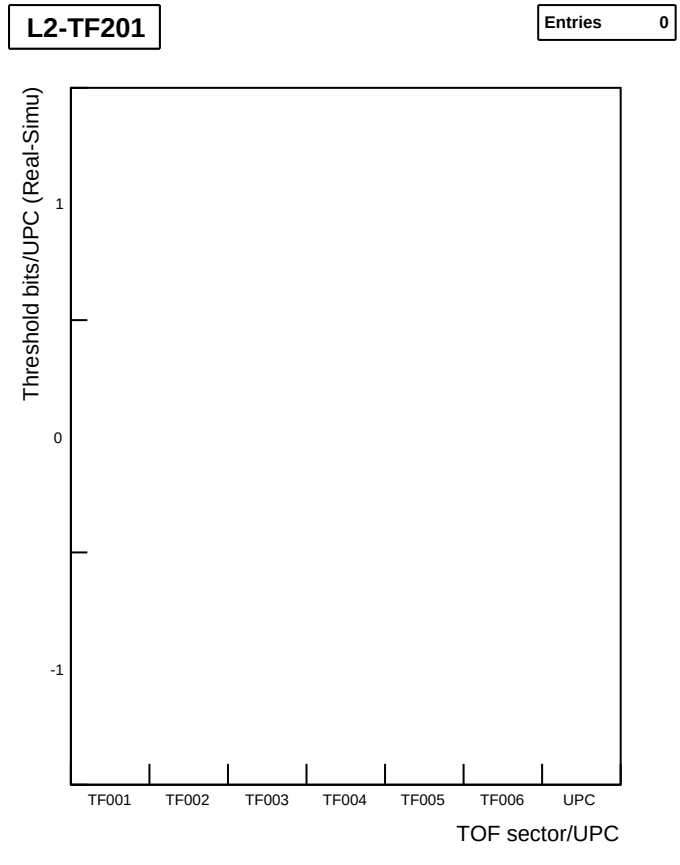

MIX-TF101
Entries 3990078
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

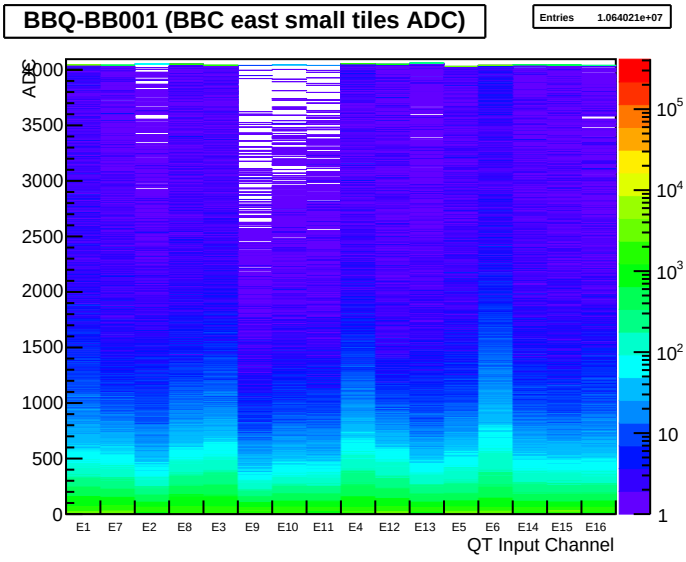

MIX-TF101
Entries 484454
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

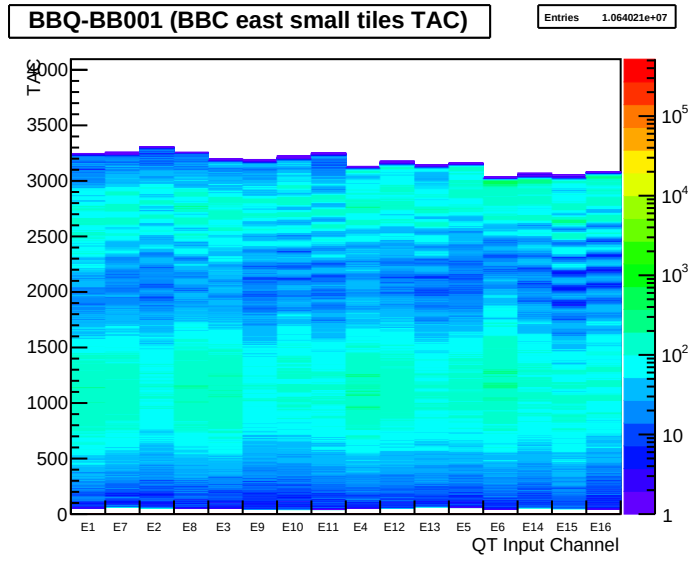

L2-TF201
Entries 665013
TOF total mult

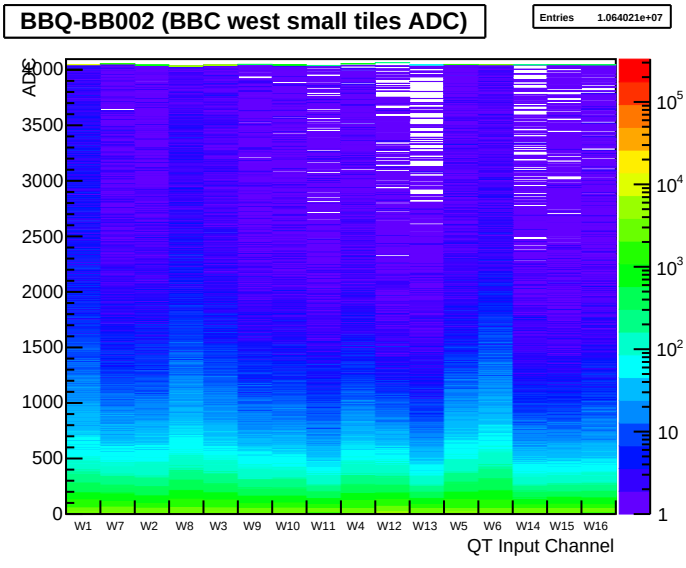

L2-TF201
Entries 0
TOF total mult(Real-Simu)

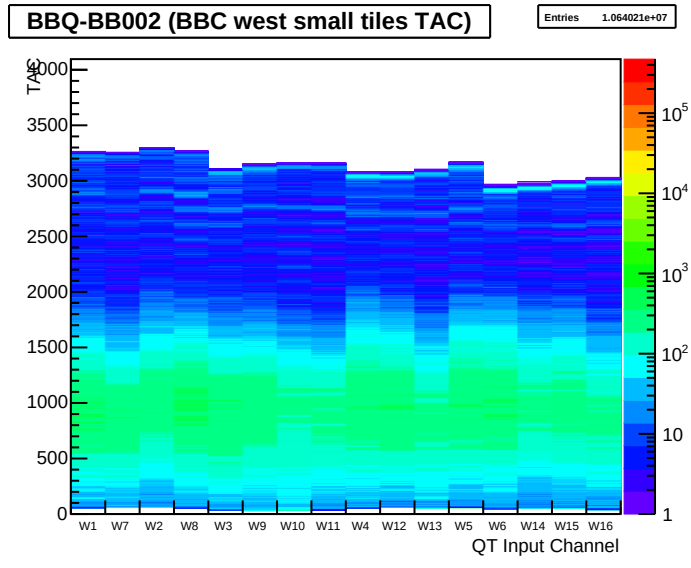

L2-TF201
Entries 4655091
Threshold/UPC bits
587375
593121
587154
592556
587890
585196
632633
77638
71892
77859
72457
77123
79817
32380
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

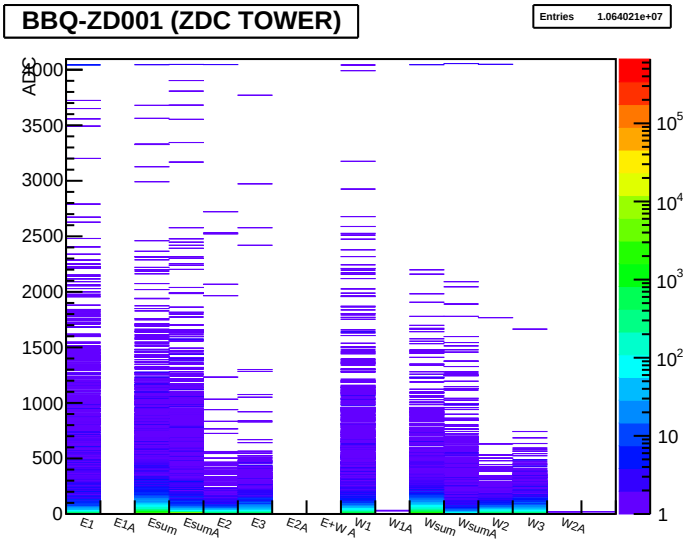

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

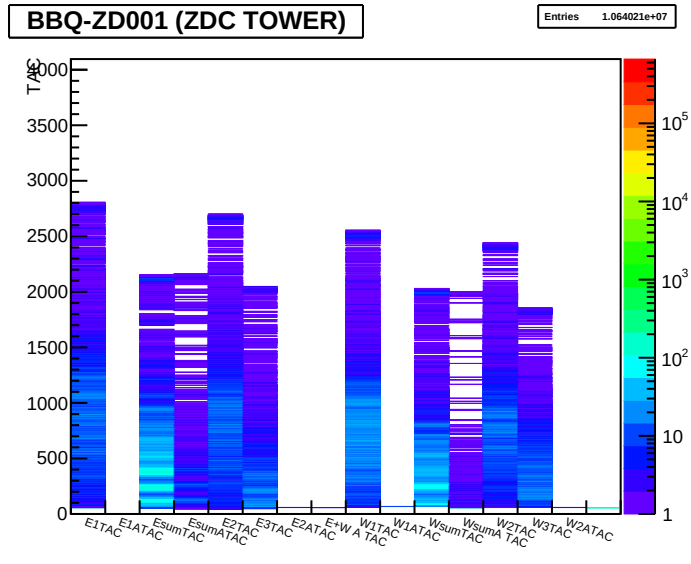

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.064021e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

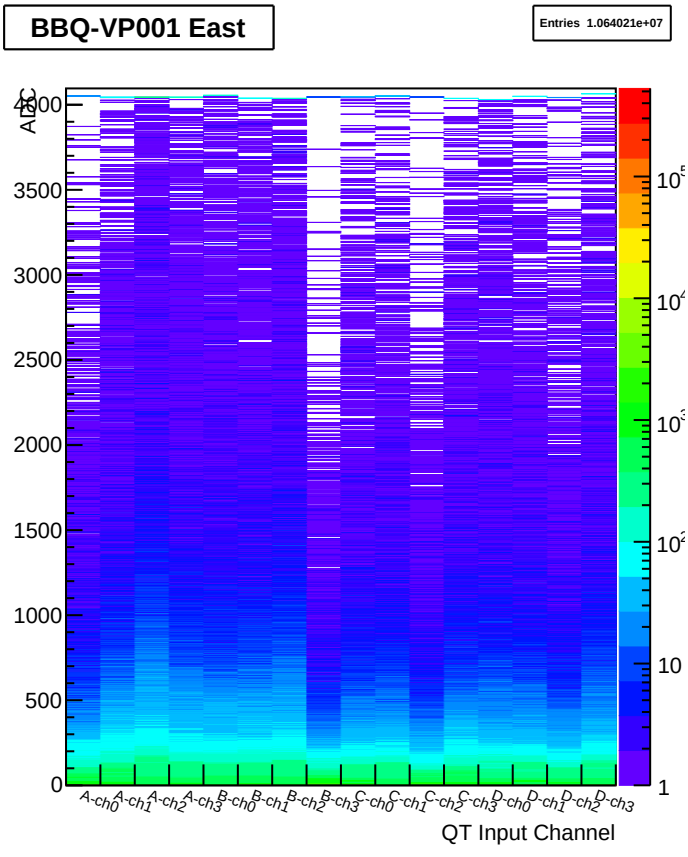

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.064021e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

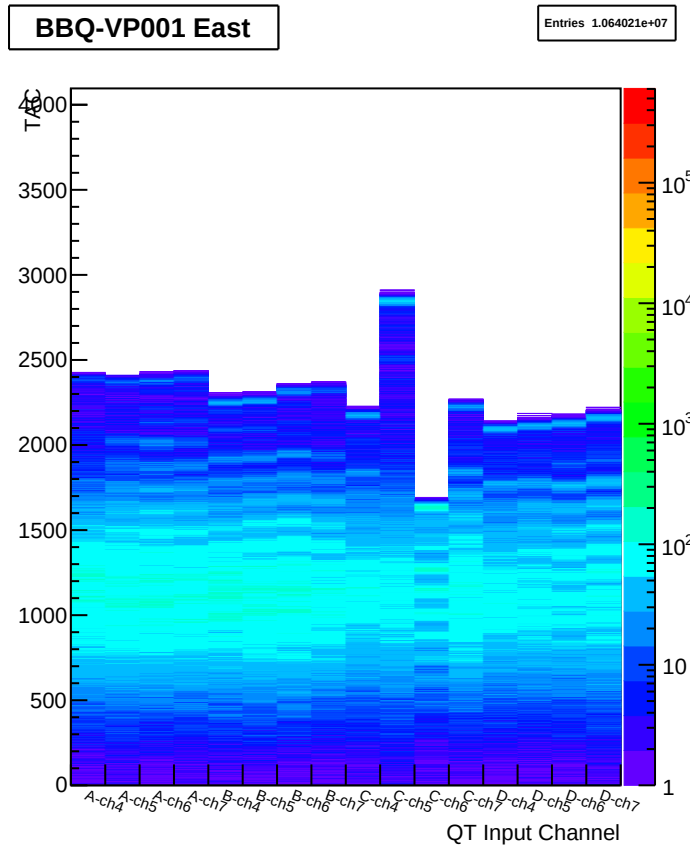

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.064021e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

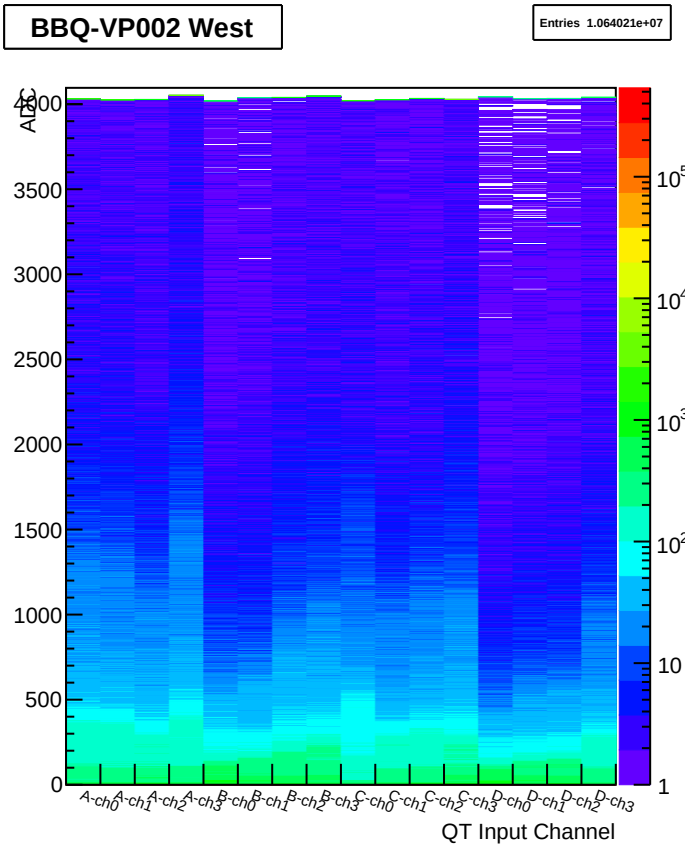

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.064021e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

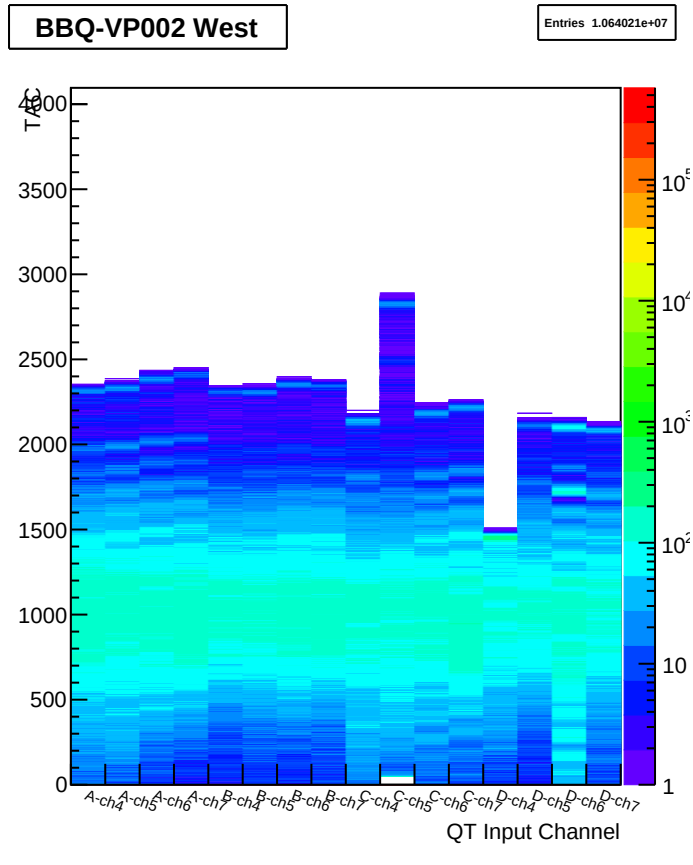

BBQ-ZD001 (ZDC TOWER)
Entries 1.064021e+07
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

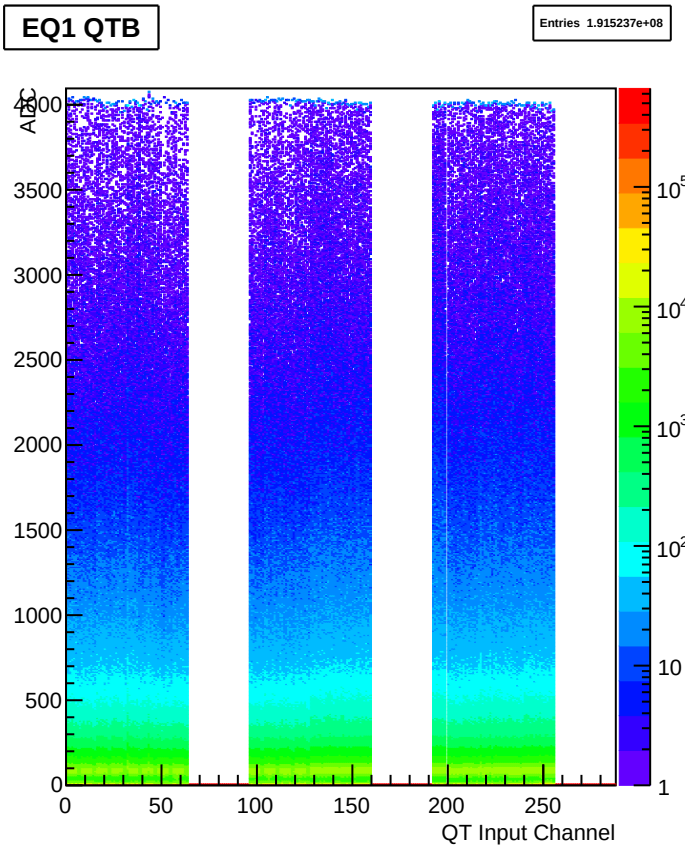

BBQ-ZD001 (ZDC TOWER)
Entries 1.064021e+07
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

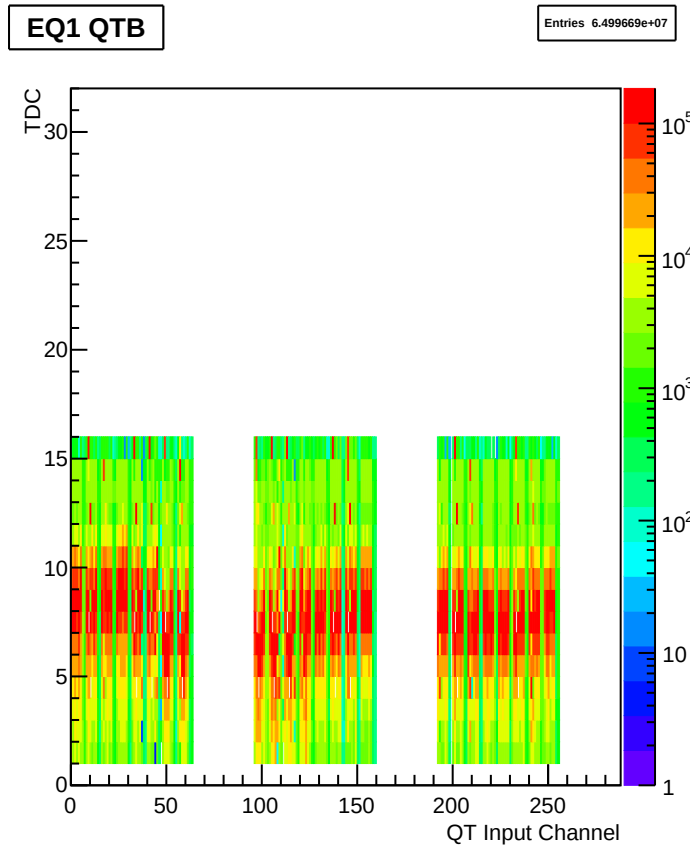

BBQ-VP001 East
Entries 1.064021e+07
ADC
QT Input Channel

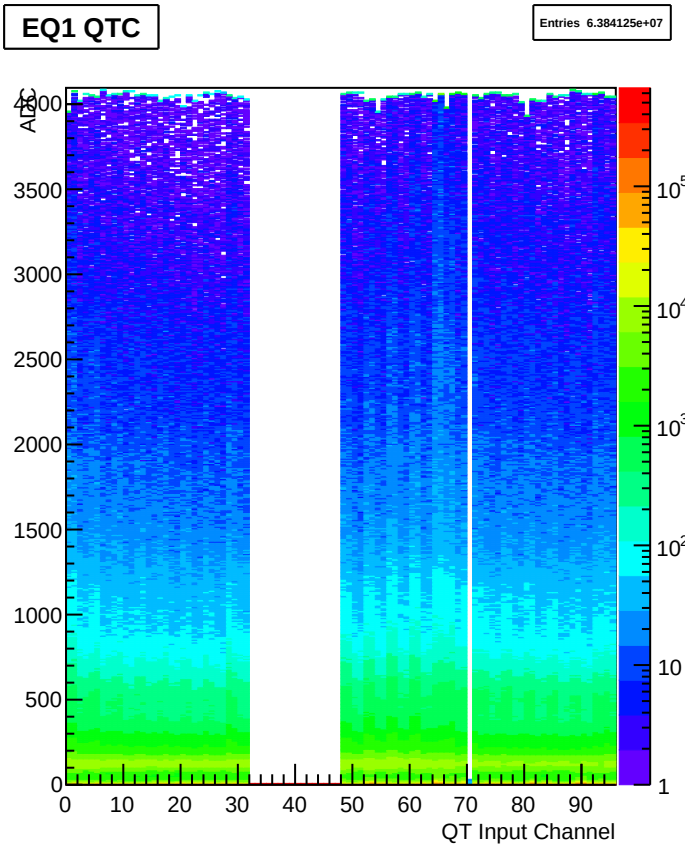

BBQ-VP001 East
Entries 1.064021e+07
ADC
QT Input Channel

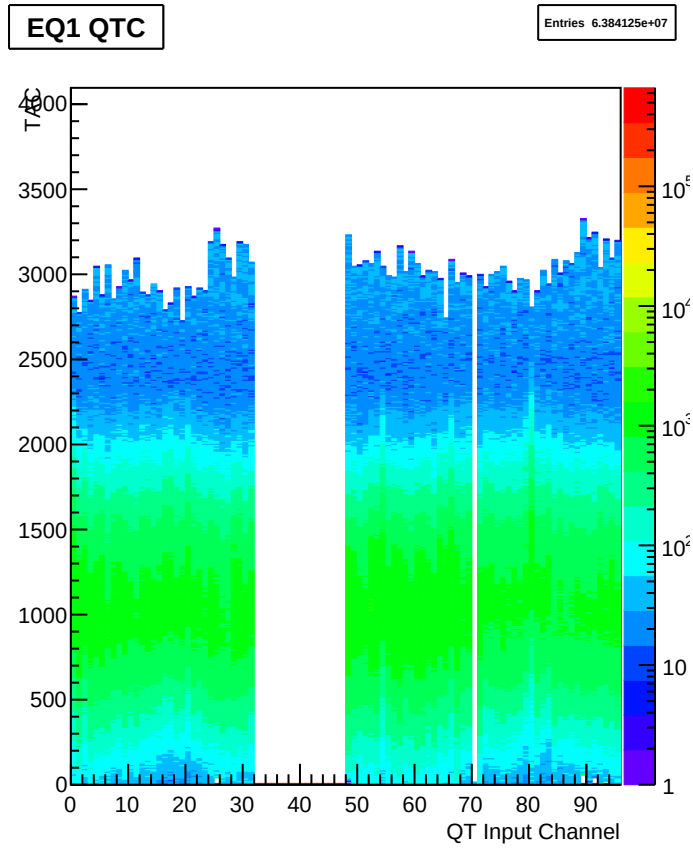

BBQ-VP002 West
Entries 1.064021e+07
ADC
QT Input Channel

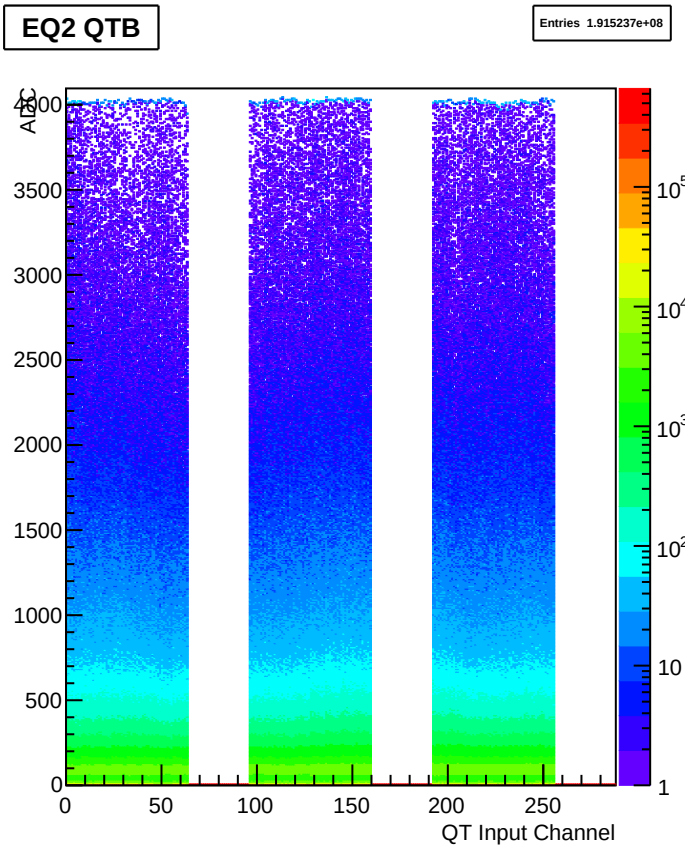

BBQ-VP002 West
Entries 1.064021e+07
ADC
QT Input Channel

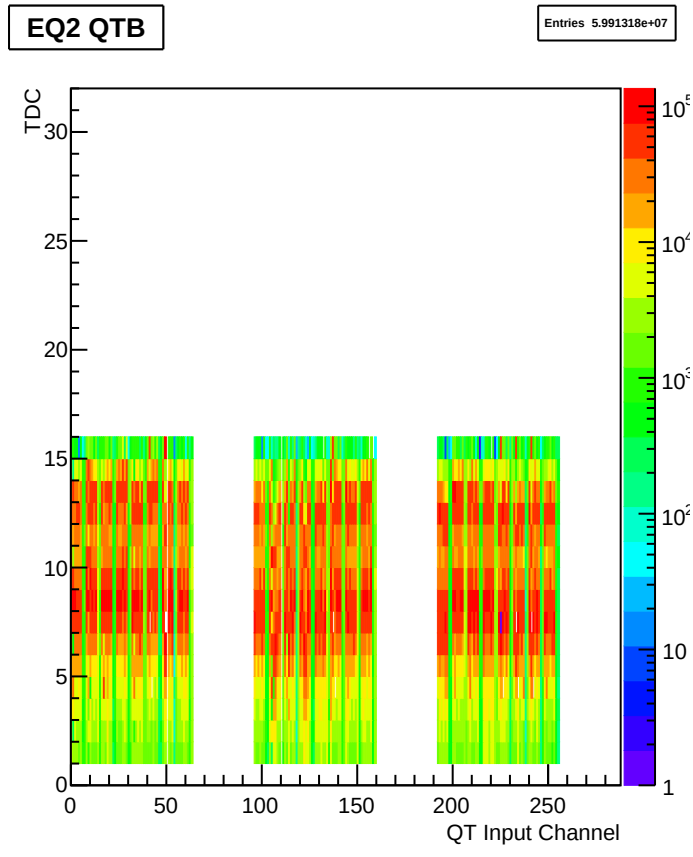

EQ1 QTB
Entries 1.915237e+08
ADC
QT Input Channel

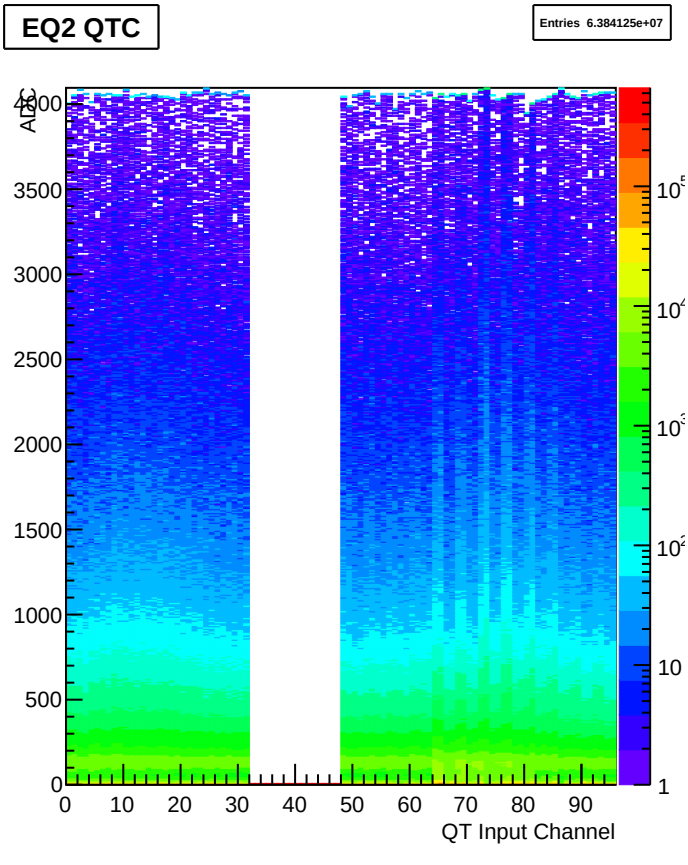

EQ1 QTB
Entries 6.499669e+07
TDC
QT Input Channel

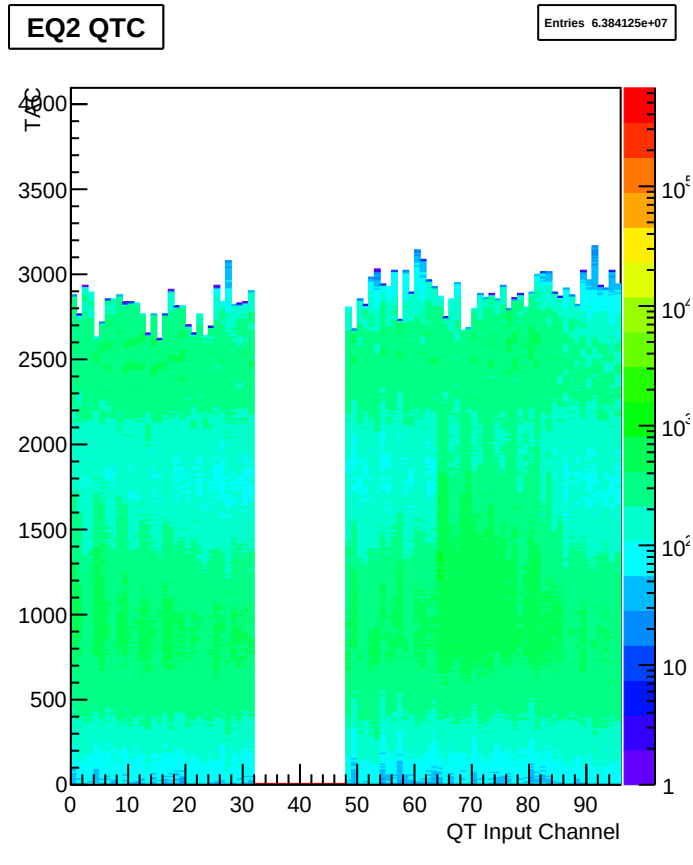

EQ1 QTC
Entries 6.384125e+07
ADC
QT Input Channel

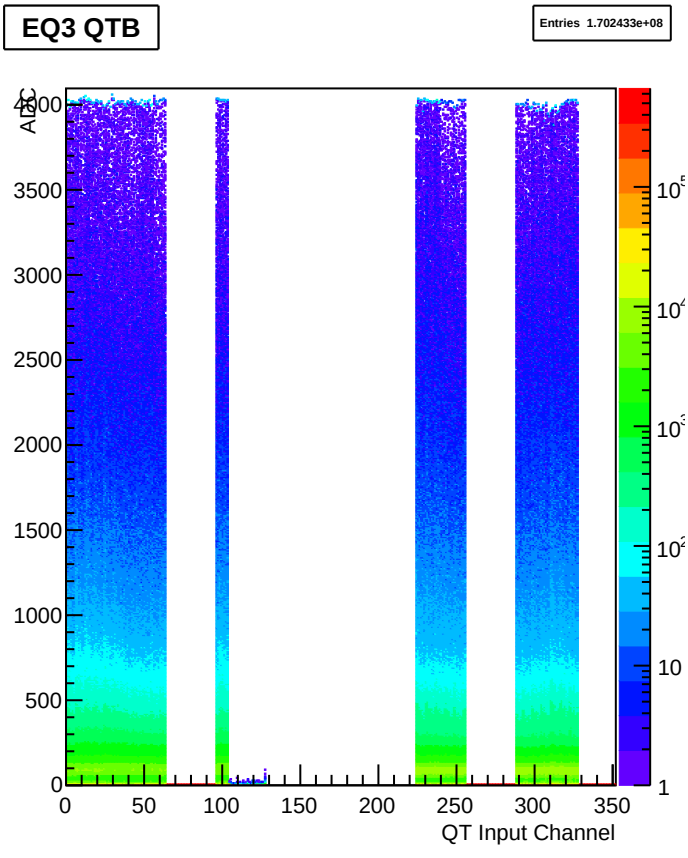

EQ1 QTC
Entries 6.384125e+07
TADC
QT Input Channel

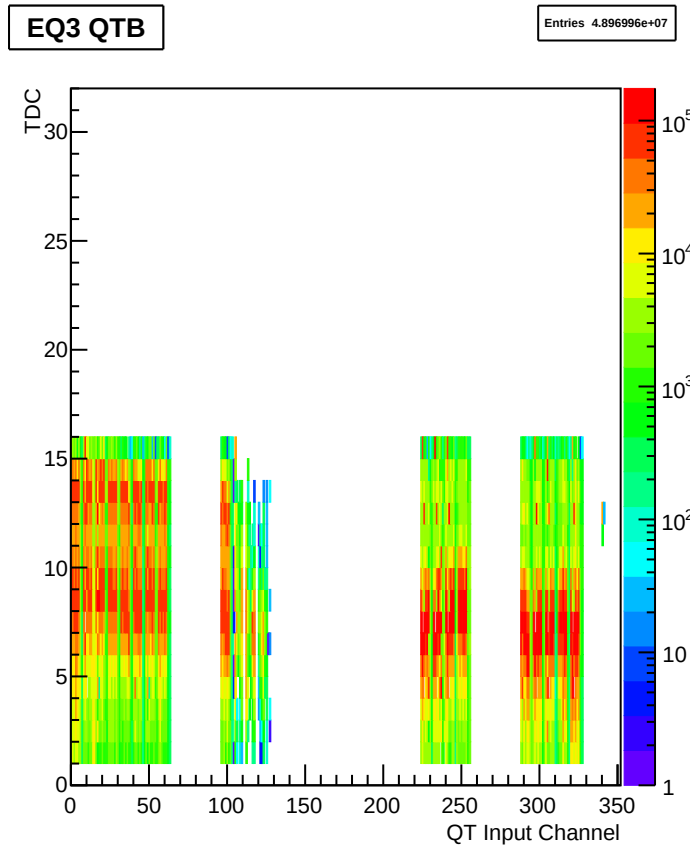

EQ2 QTB
Entries 1.915237e+08
ADC
QT Input Channel

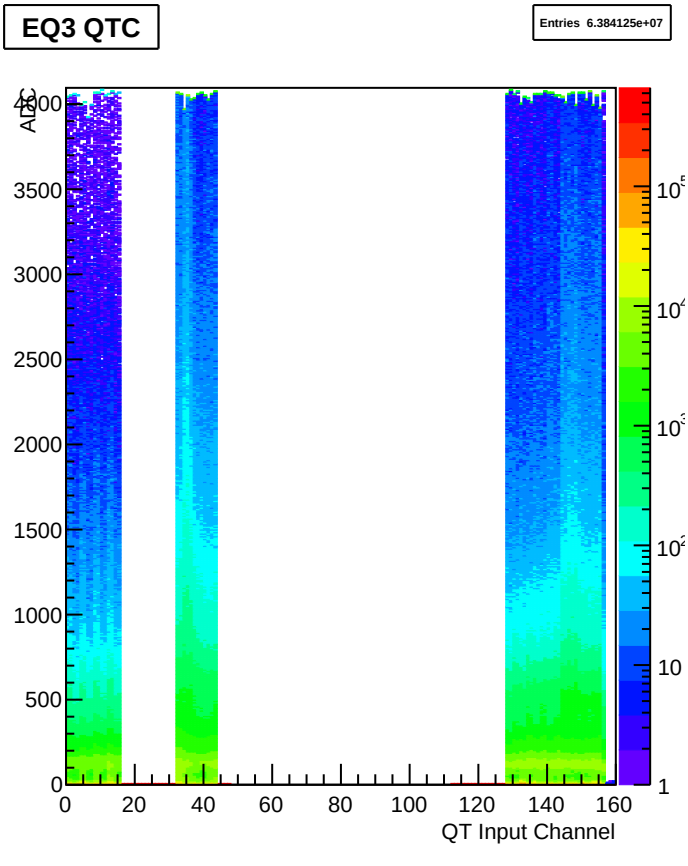

EQ2 QTB
Entries 5.991318e+07
TDC
QT Input Channel

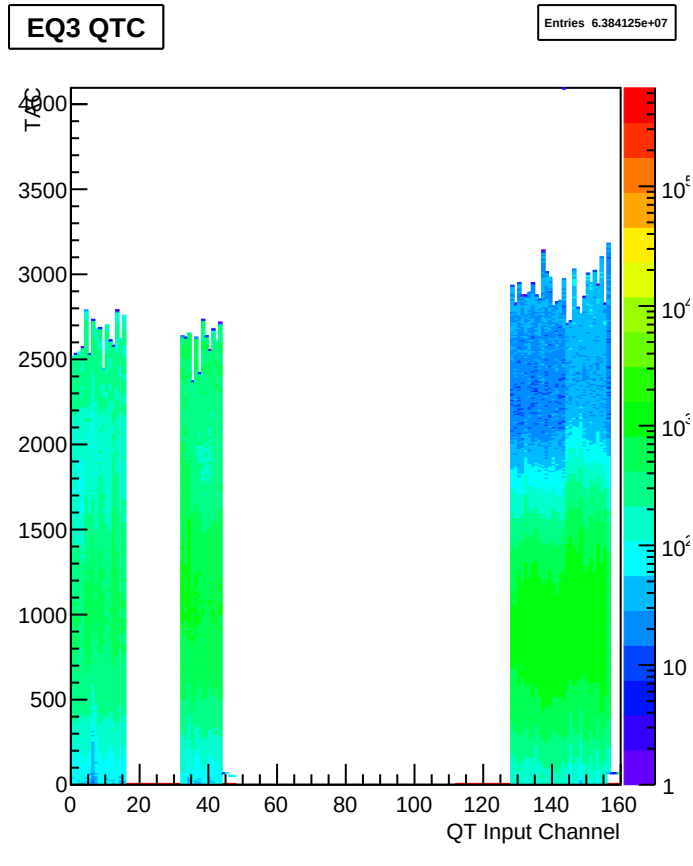

EQ2 QTC
Entries 6.384125e+07
ADC
QT Input Channel

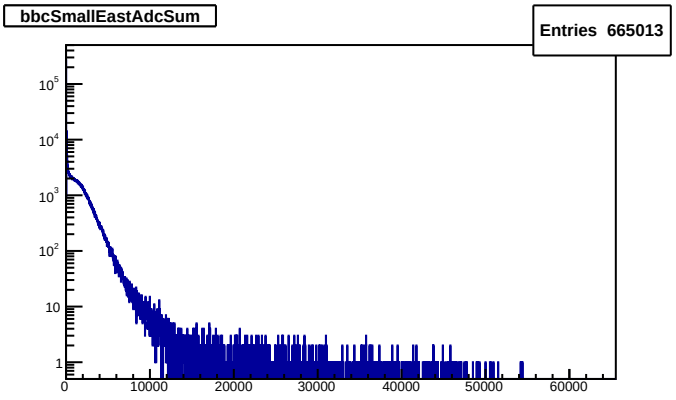

EQ2 QTC
Entries 6.384125e+07
TADC
QT Input Channel

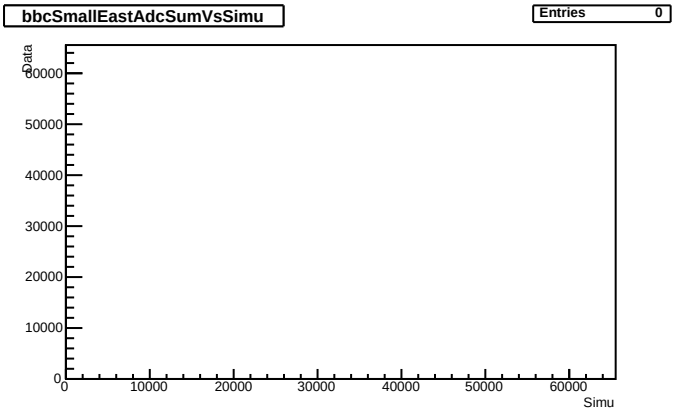

EQ3 QTB
Entries 1.702433e+08
ADC
QT Input Channel

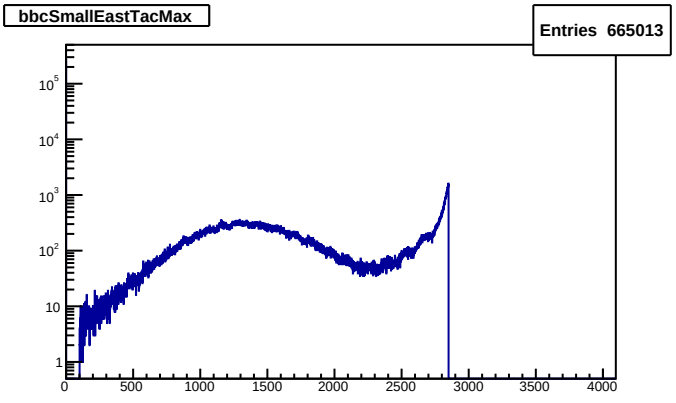

EQ3 QTB
Entries 4.896996e+07
TDC
QT Input Channel

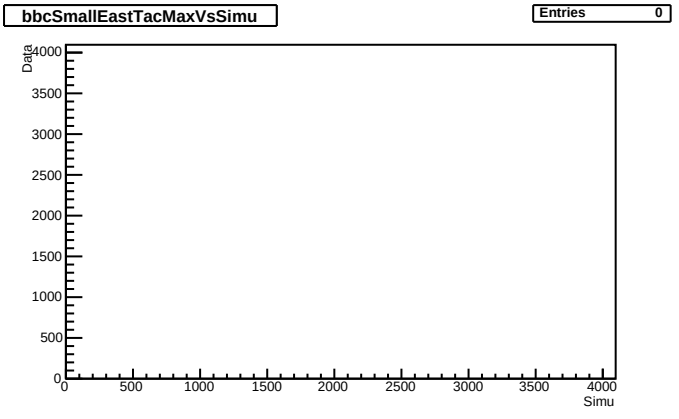

EQ3 QTC
Entries 6.384125e+07
ADC
QT Input Channel

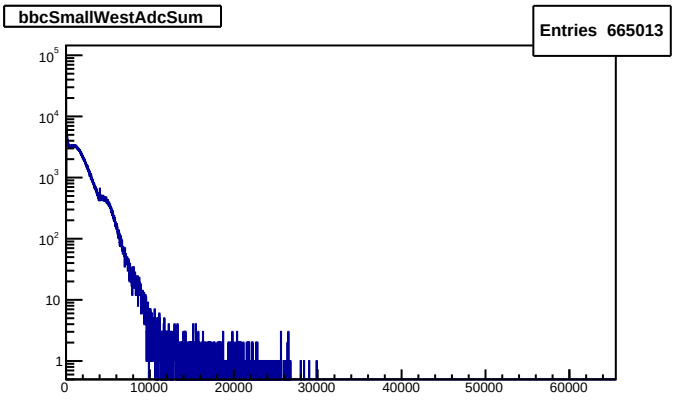

EQ3 QTC
Entries 6.384125e+07
TADC
QT Input Channel

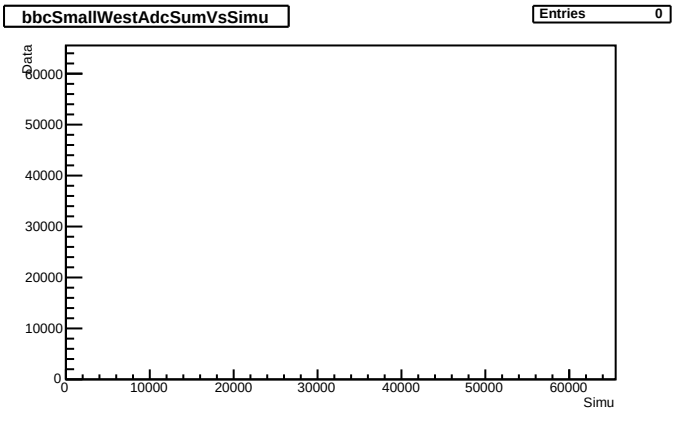

bbcSmallEastAdcSum
Entries 665013

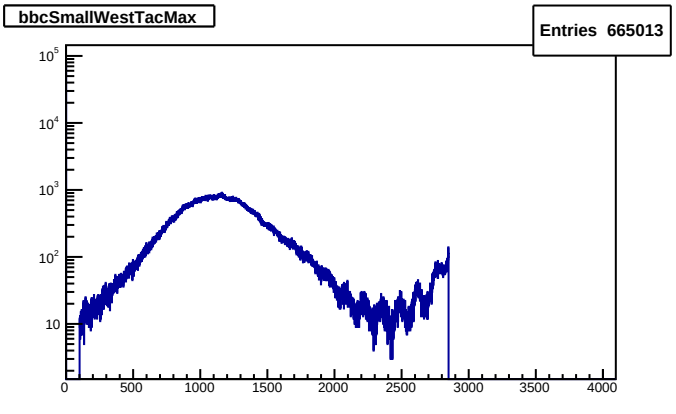

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

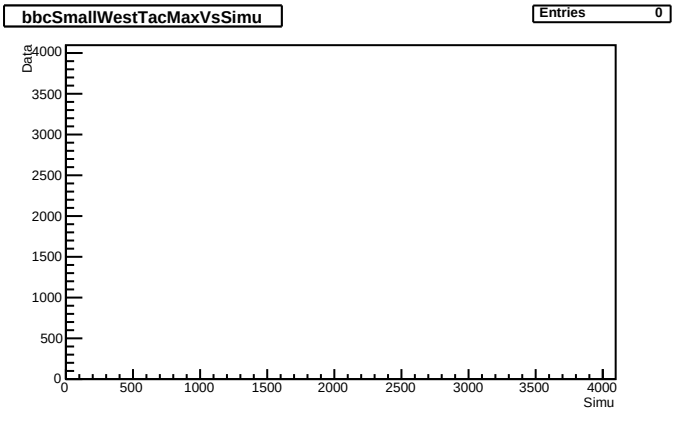

bbcSmallEastTacMax
Entries 665013

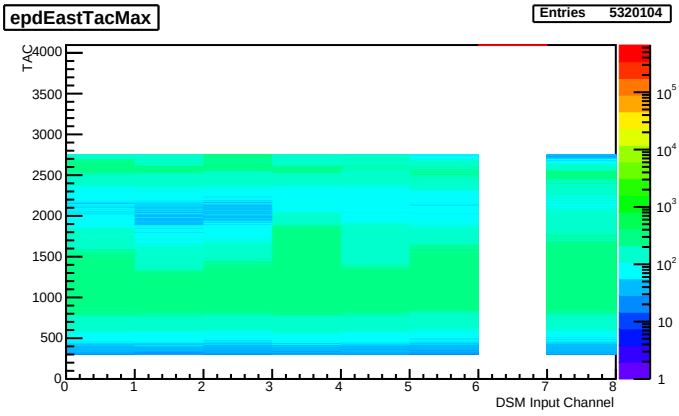

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

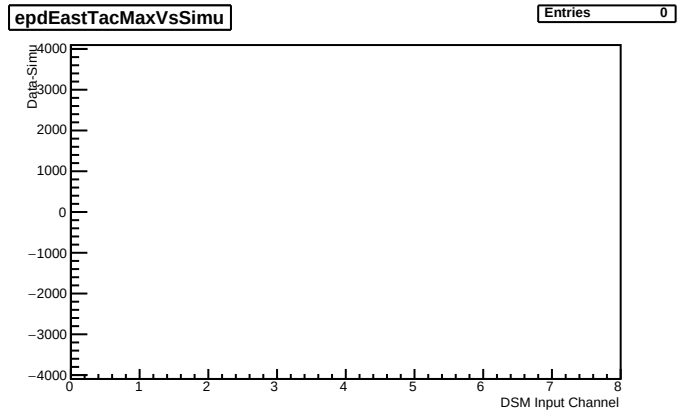

bbcSmallWestAdcSum
Entries 665013

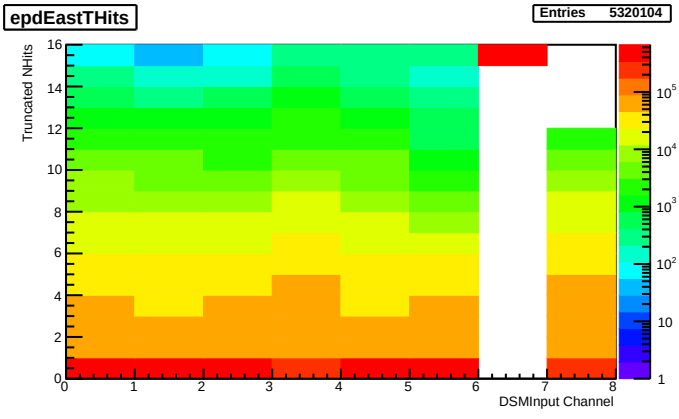

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

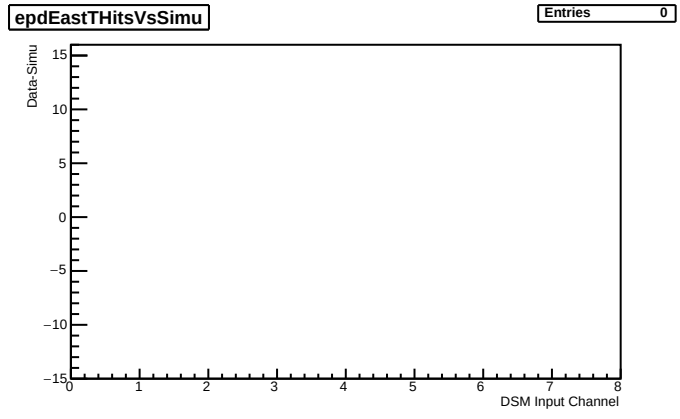

bbcSmallWestTacMax
Entries 665013


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 5320104
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 5320104
Truncated NHits
DSMInput Channel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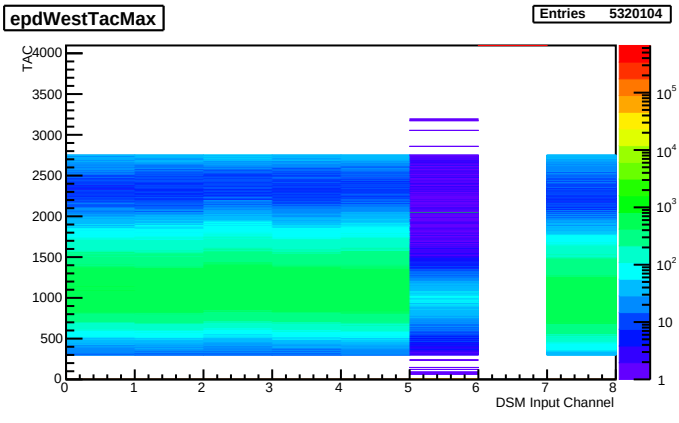
Data-Simu
DSM Input Channel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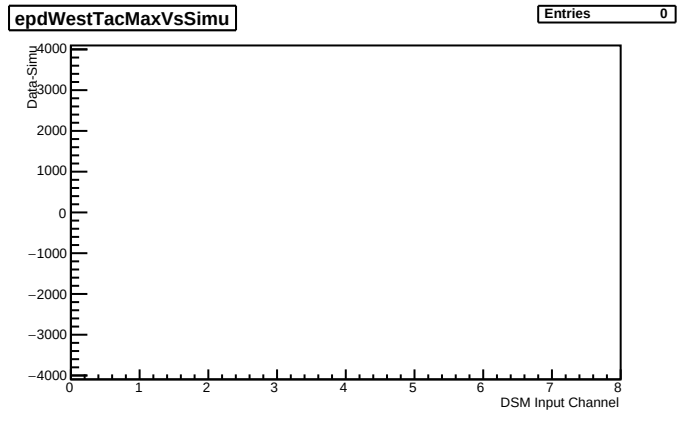
Entries 5320104
TAC
DSM Input Channel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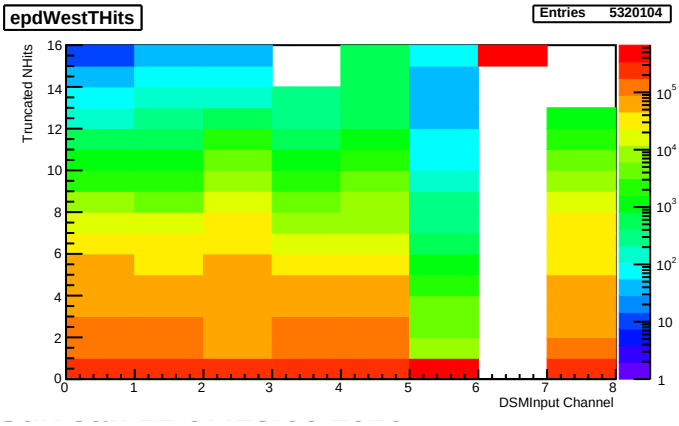
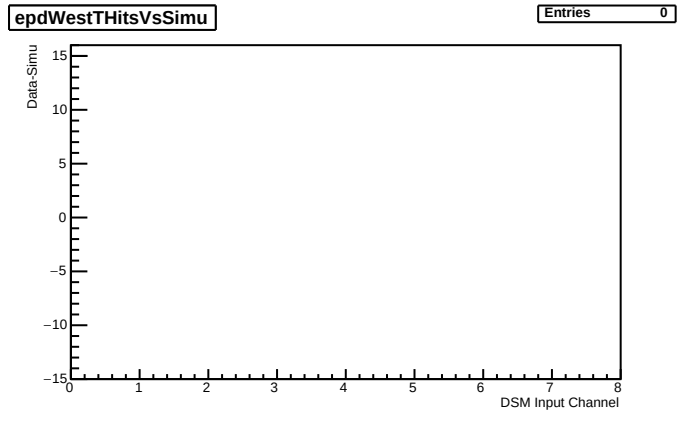
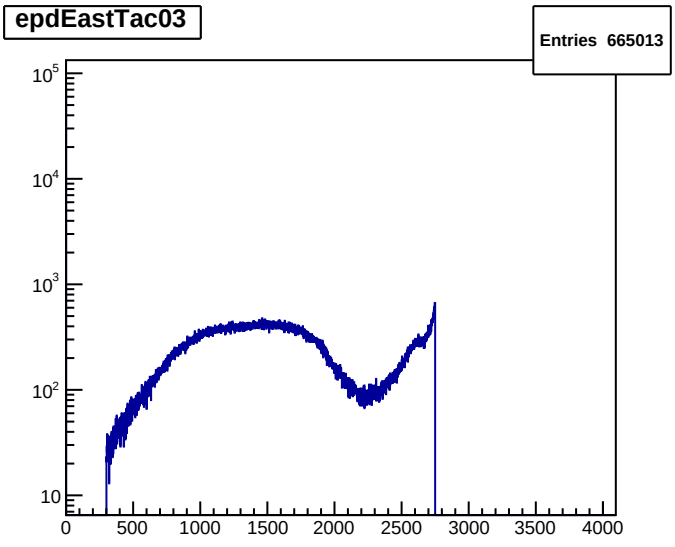
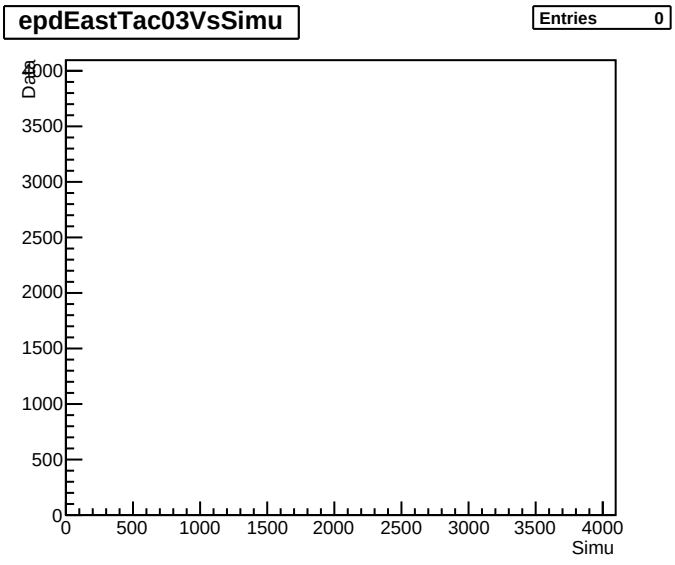
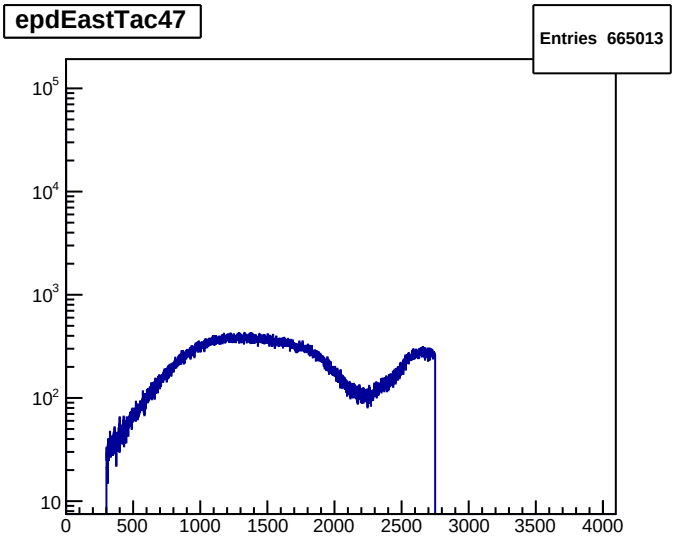
Entries 0
Data-Simu
DSM Input Channel

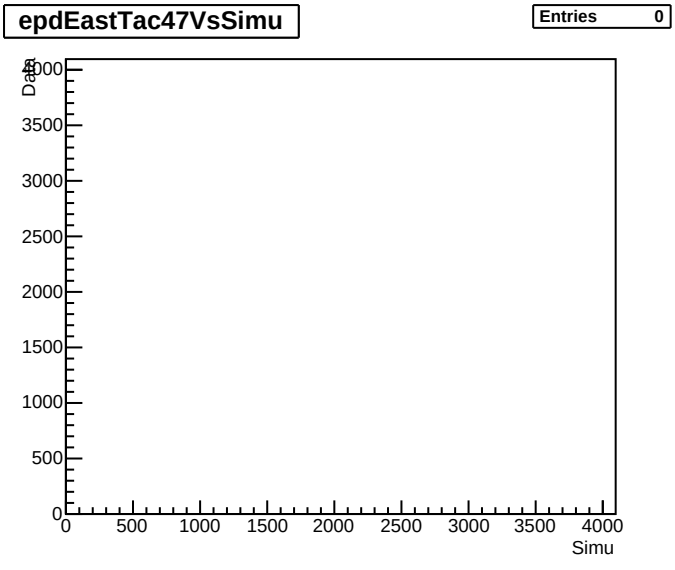

epdWestTHits
Entries 5320104
Truncated NHits
DSMInput Channel

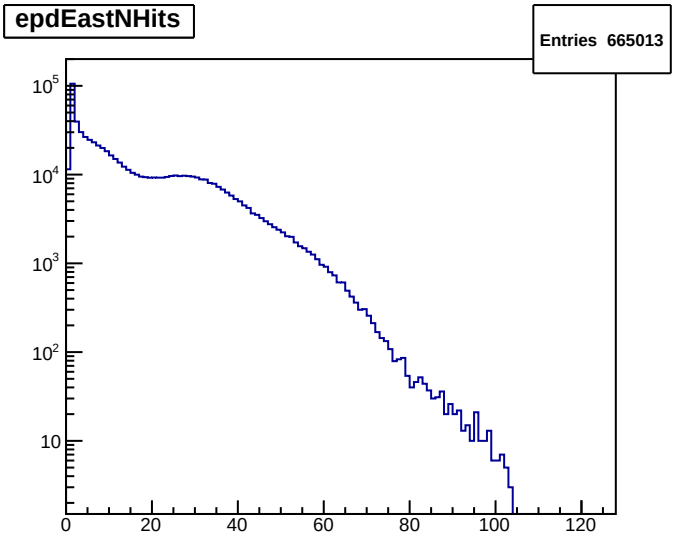

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

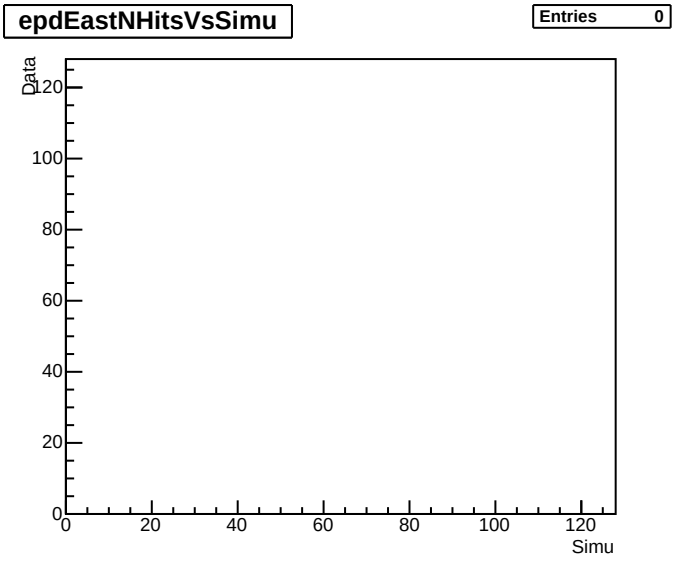

epdEastTac03
Entries 665013
10^5
10^4
10^3
10^2
10
0 500 1000 1500 2000 2500 3000 3500 4000

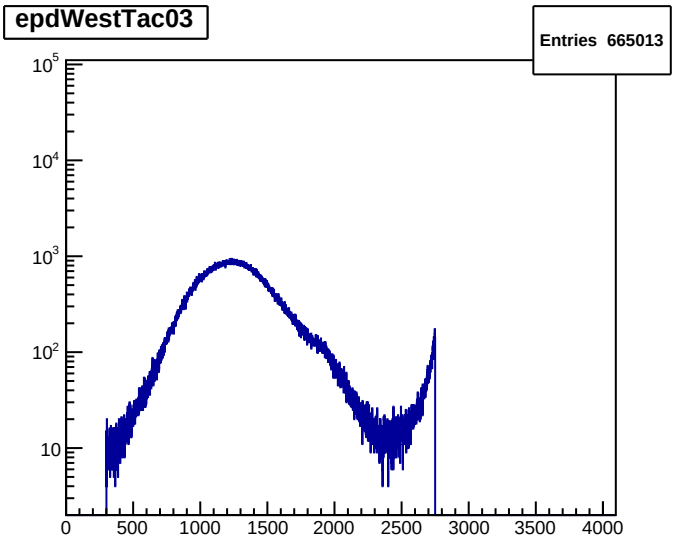

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

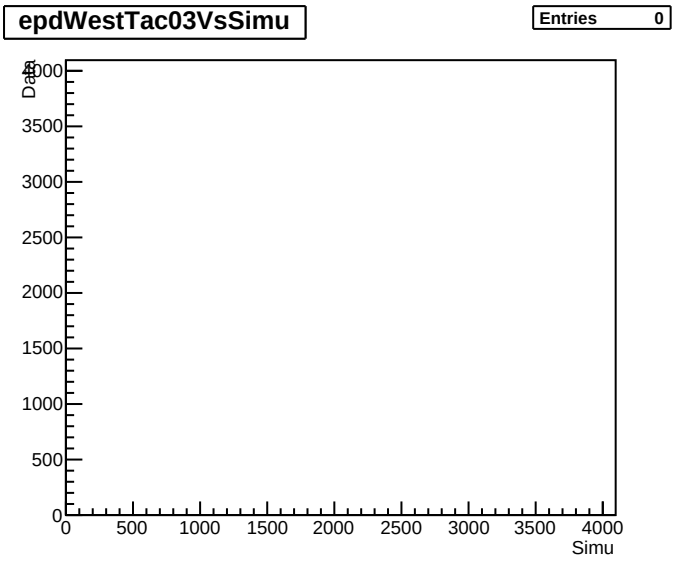

epdEastTac47
Entries 665013
10^5
10^4
10^3
10^2
10
0 500 1000 1500 2000 2500 3000 3500 4000


epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastNHits
Entries 665013
10^5
10^4
10^3
10^2
10
0 20 40 60 80 100 120


epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu


epdWestTac03
Entries 665013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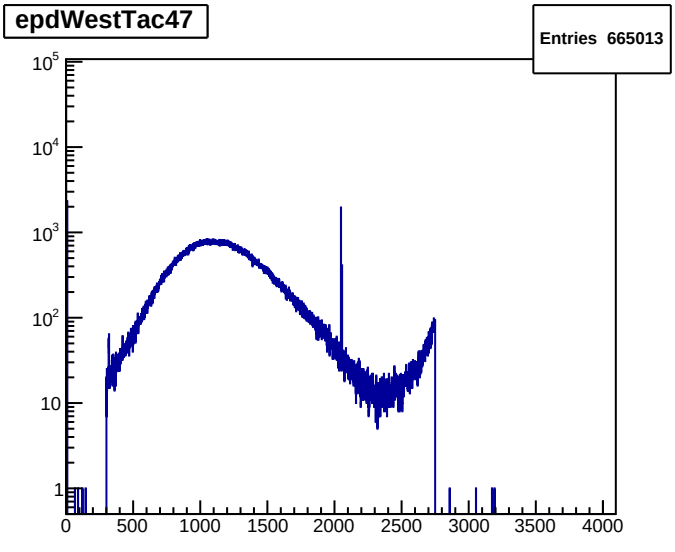
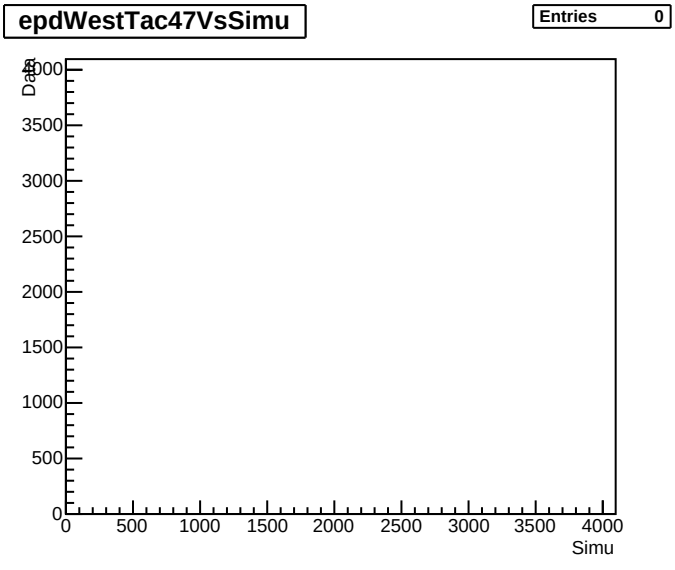
Entries 0
Data
Simu


epdWestTac47
Entries 665013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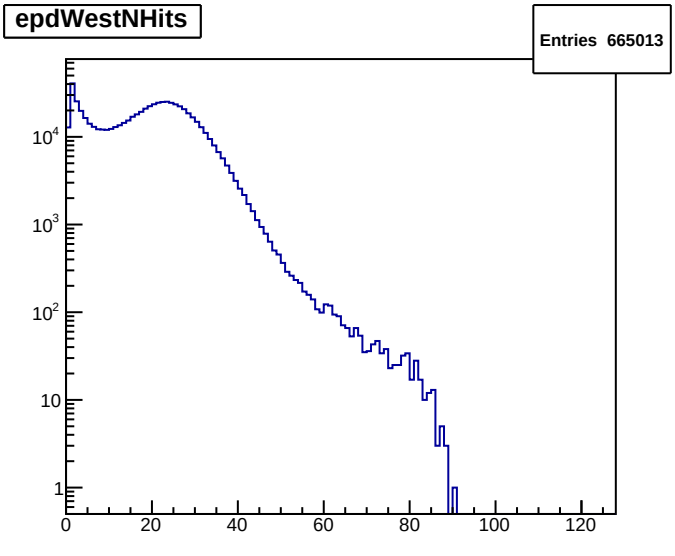
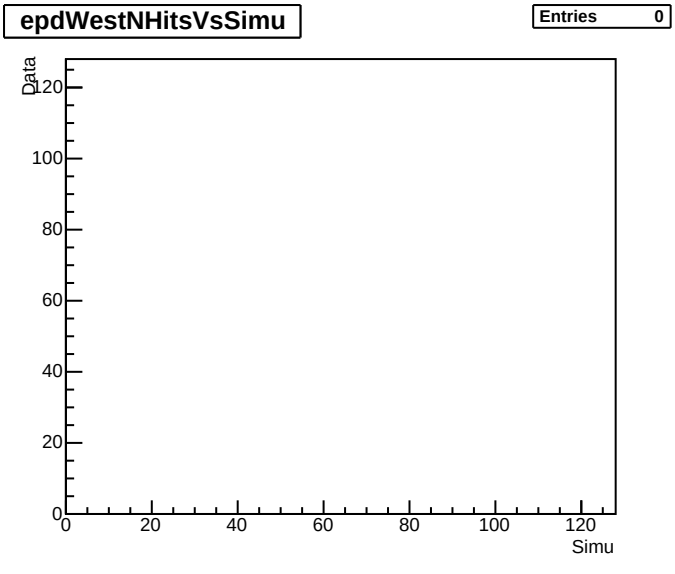
Entries 0
Data
Simu


epdWestNHits
Entries 665013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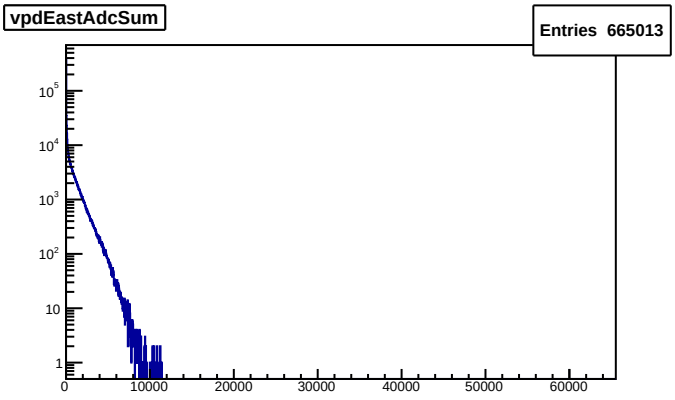
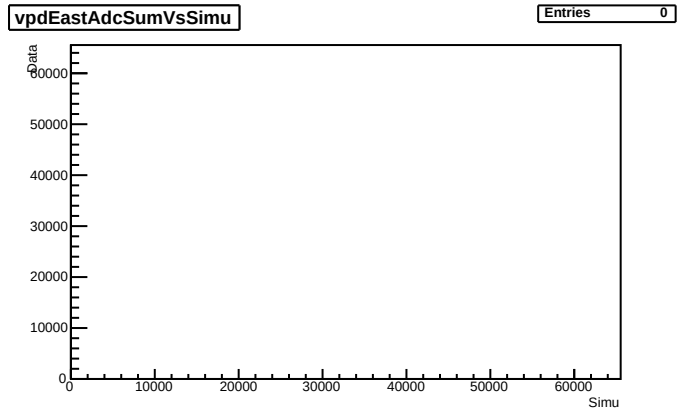
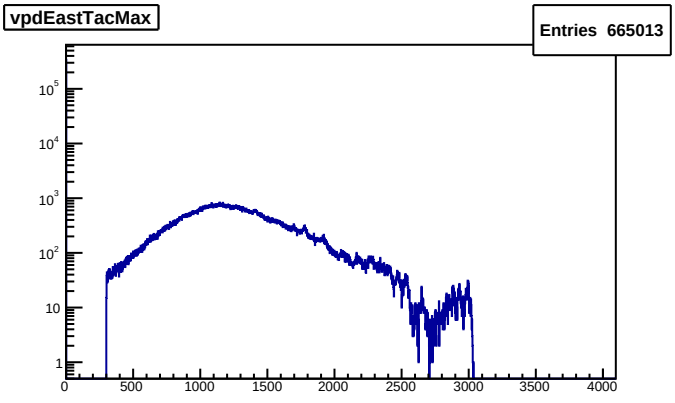
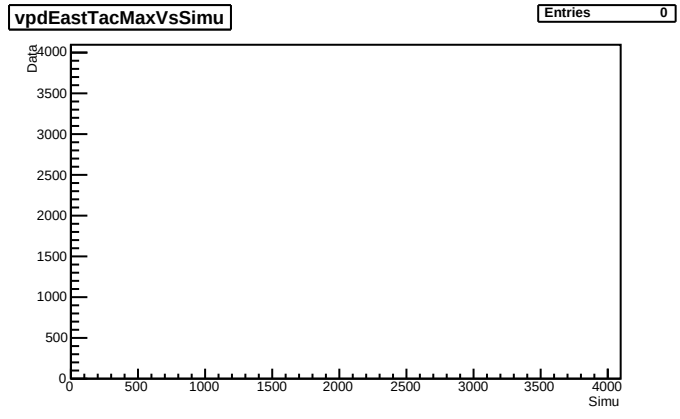
Entries 0
Data
Simu


vpdEastAdcSum
Entries 665013


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries 665013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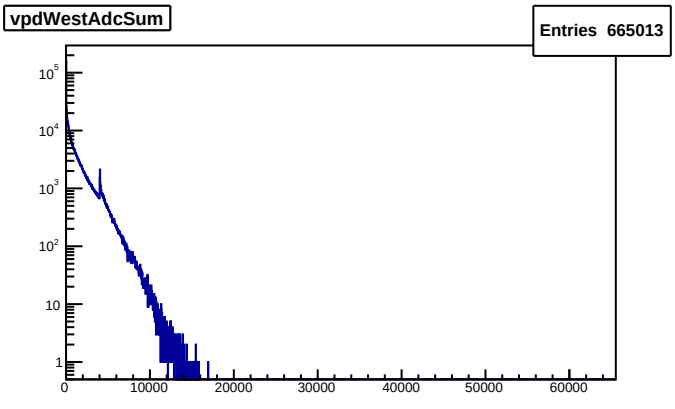
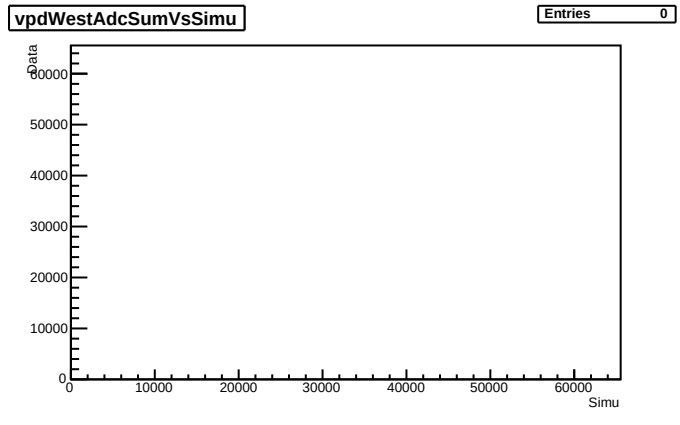
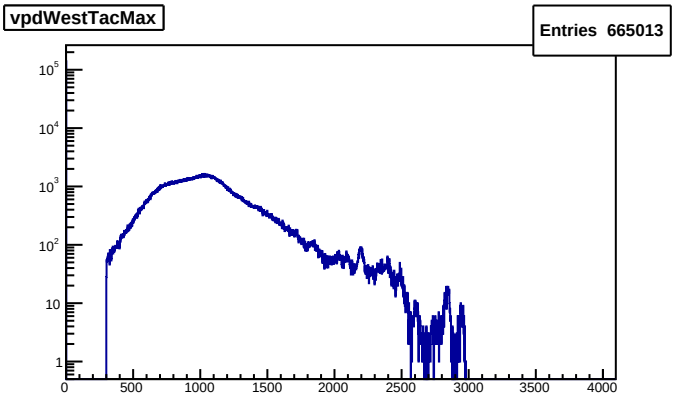
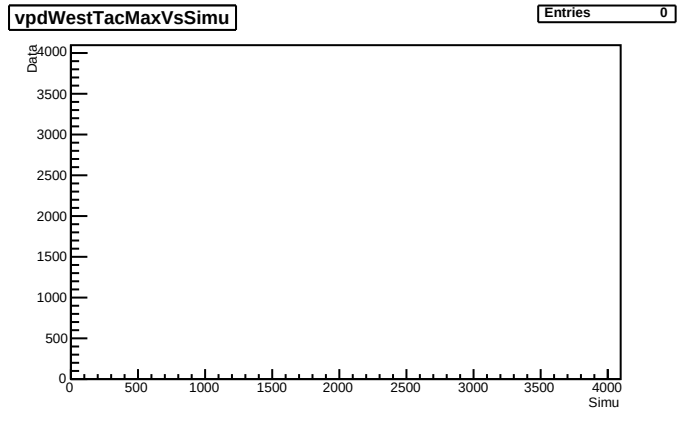
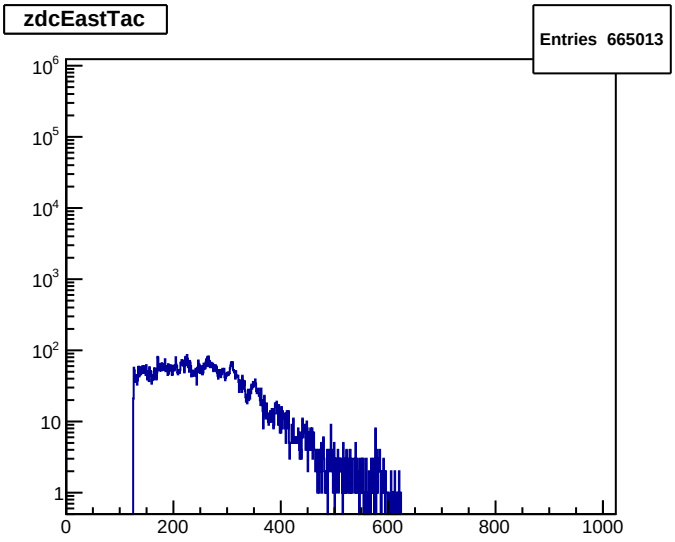
Entries 0
Data
Simu

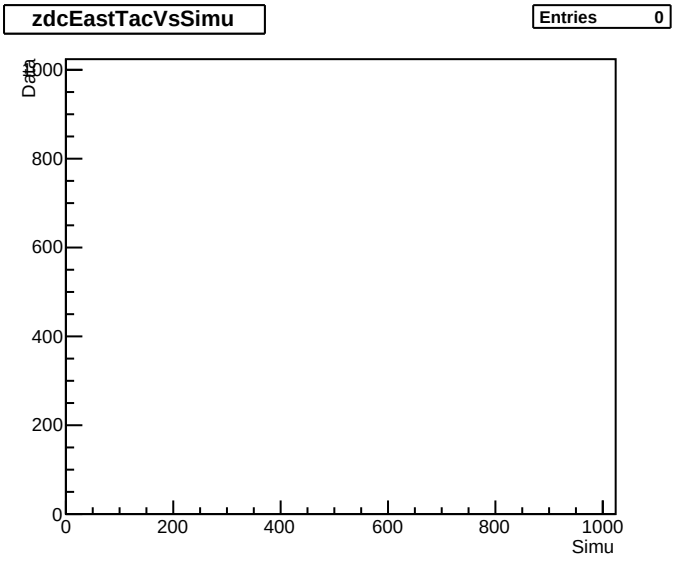

vpdWestAdcSum
Entries 665013

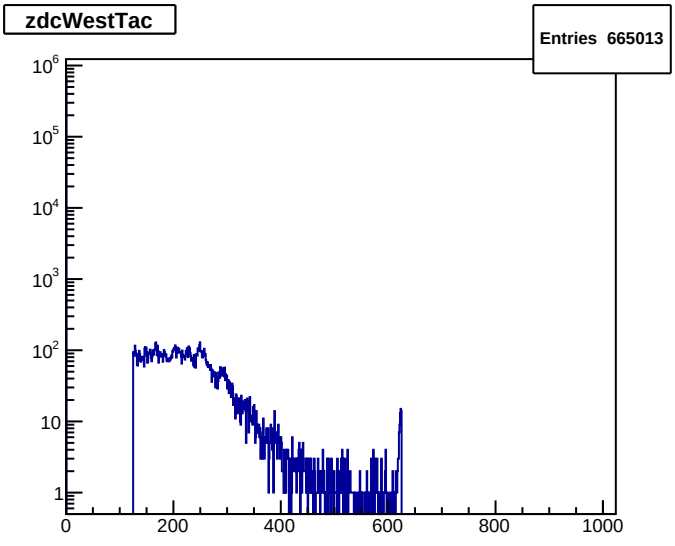

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

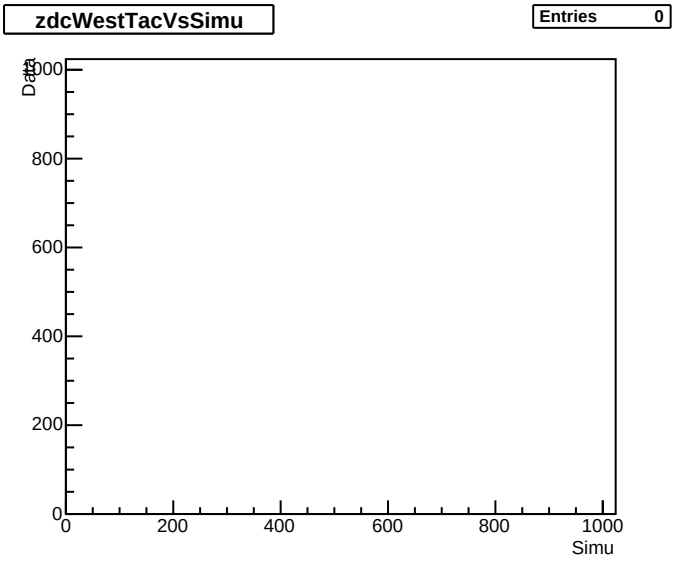

vpdWestTacMax
Entries 665013

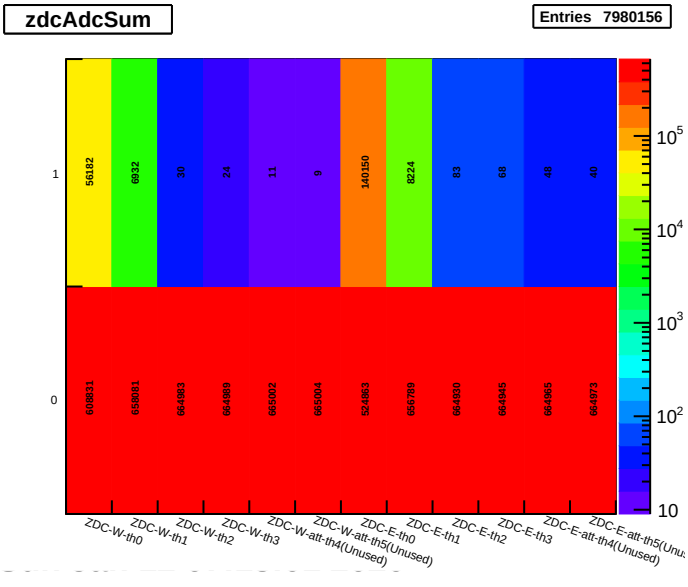

vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 665013


zdcEastTacVsSimu
Entries 0
Data
Simu


zdcWestTac
Entries 665013


zdcWestTacVsSimu
Entries 0
Data
Simu


zdcAdcSum
Entries 7980156
56182
6932
30
24
11
9
140150
8224
83
68
48
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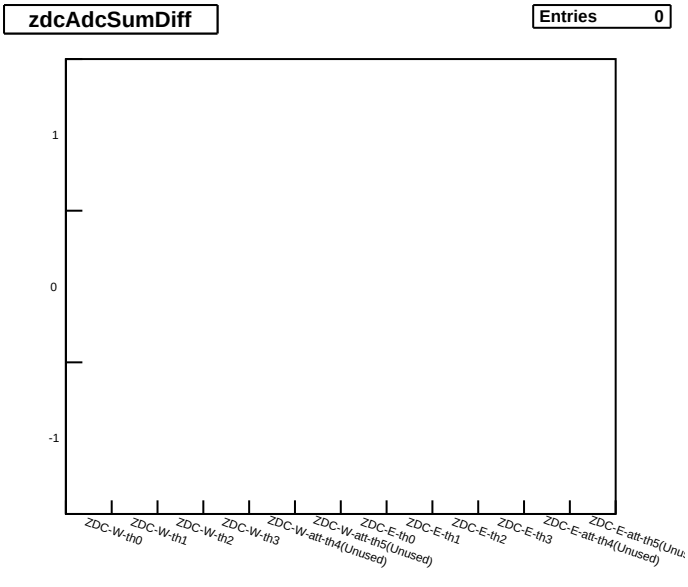
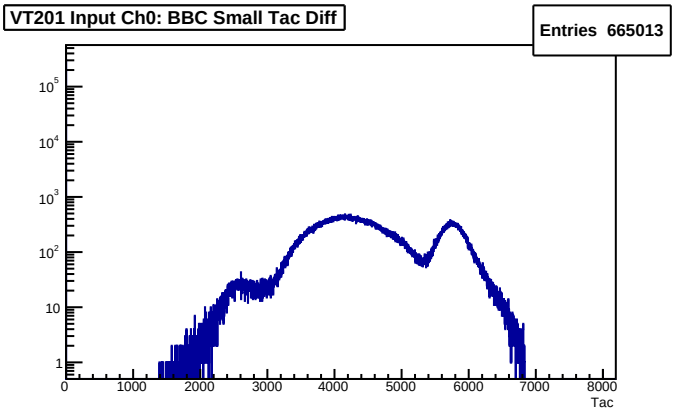
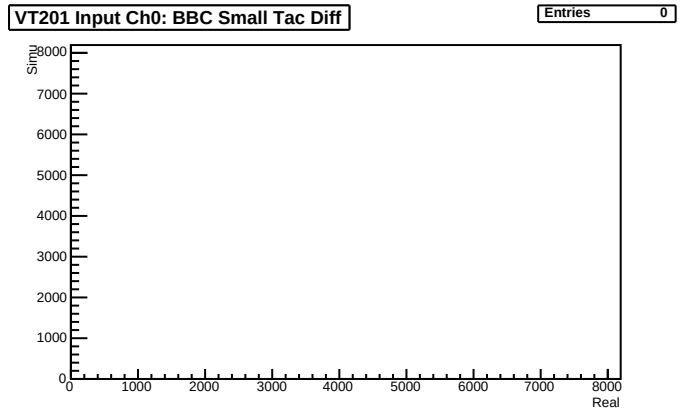
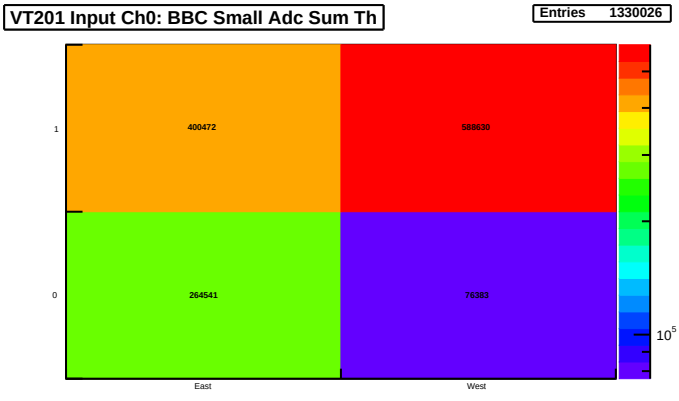
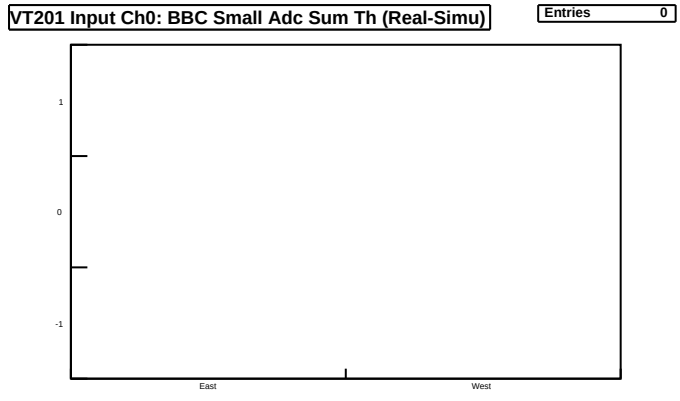
608831
656081
664863
664889
665002
665004
524863
656789
664830
664945
664965
664973
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

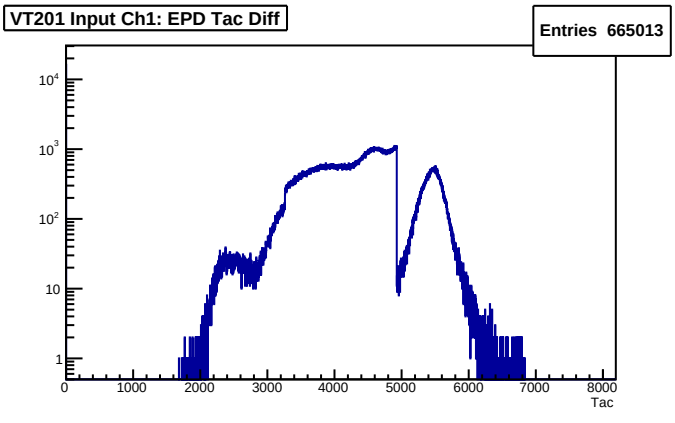

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

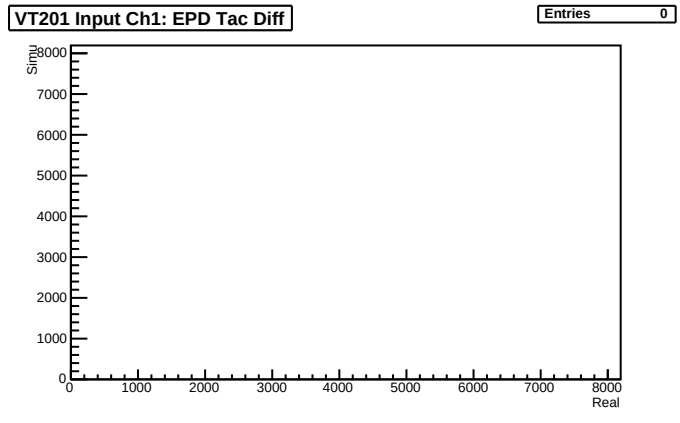

VT201 Input Ch0: BBC Small Tac Diff
Entries 665013
Tac

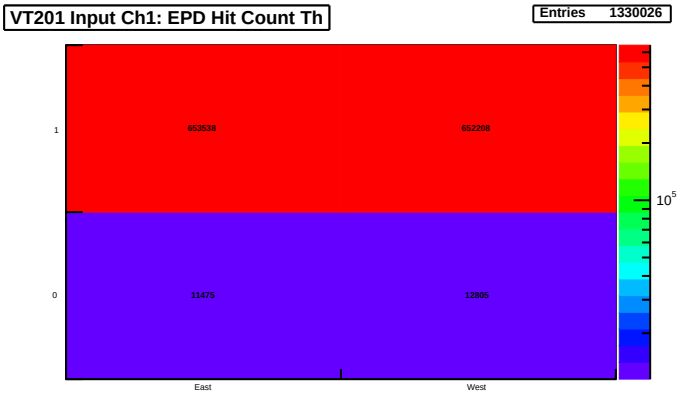

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

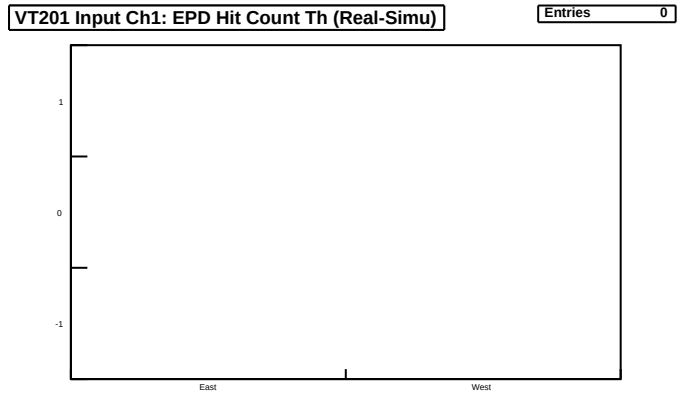

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1330026
400472
588630
264541
76383
East
West

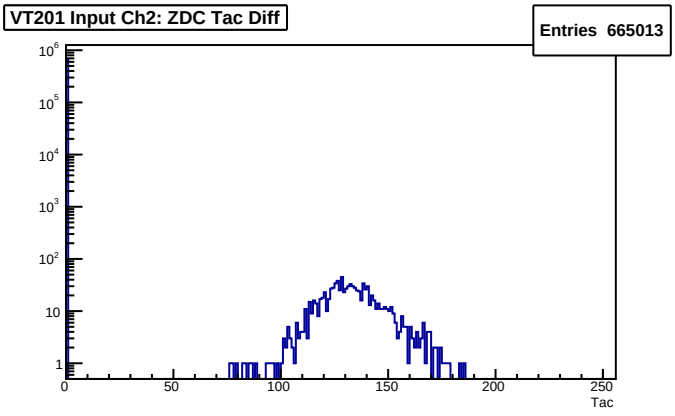

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

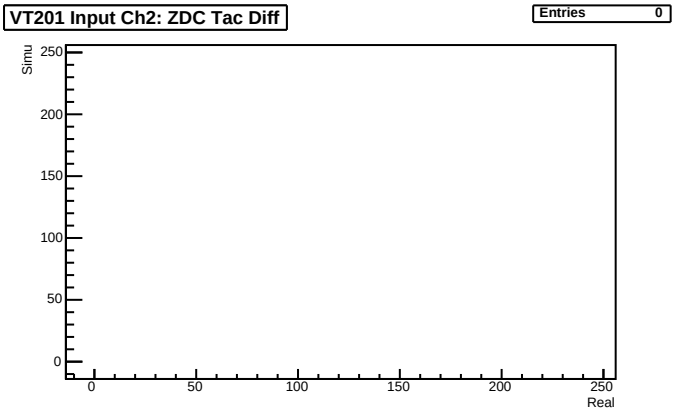

VT201 Input Ch1: EPD Tac Diff
Entries 665013
Tac

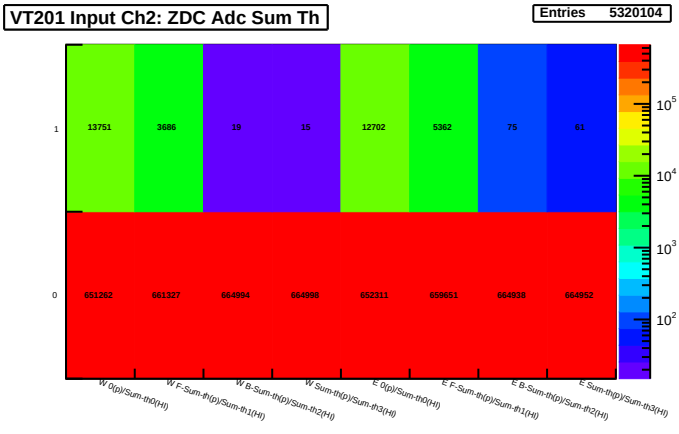

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

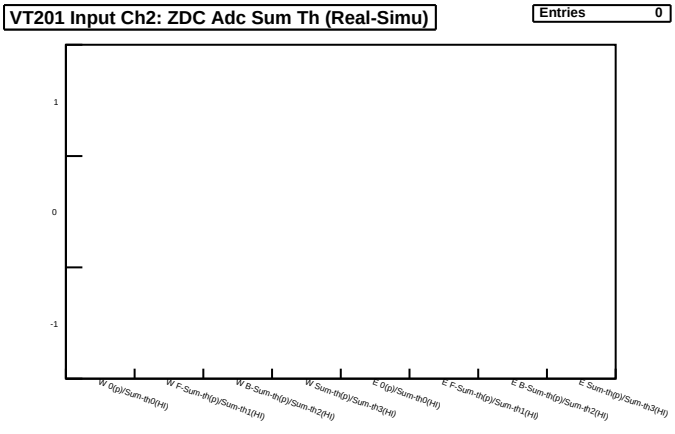

VT201 Input Ch1: EPD Hit Count Th
Entries 1330026
653538
652208
11475
12805
East
West

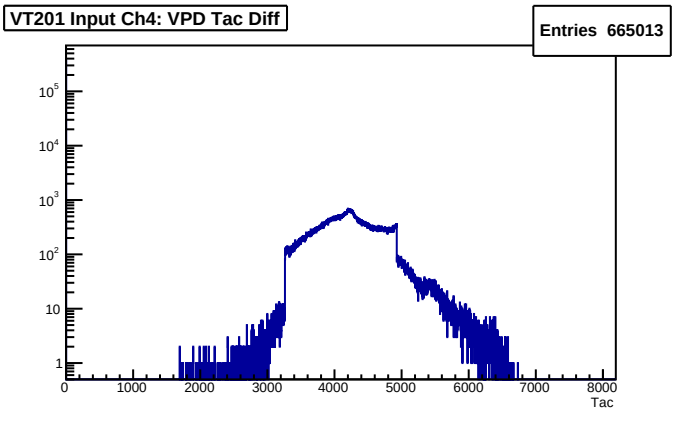

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

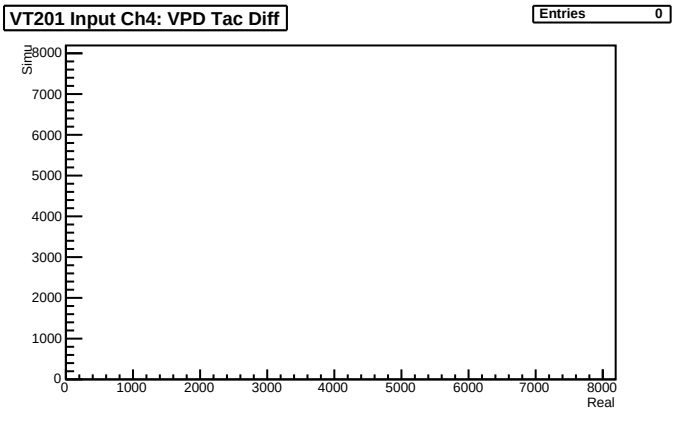

VT201 Input Ch2: ZDC Tac Diff
Entries 665013
Tac

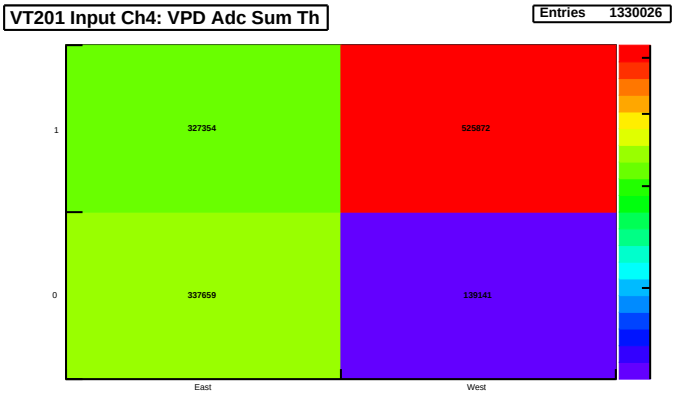

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

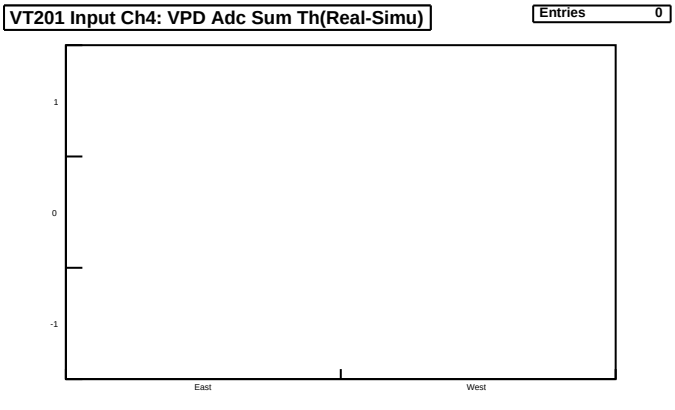

VT201 Input Ch2: ZDC Adc Sum Th
Entries 5320104
13751
3686
19
15
12702
5362
75
61
651262
661327
664994
664998
652311
659651
664938
664952
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

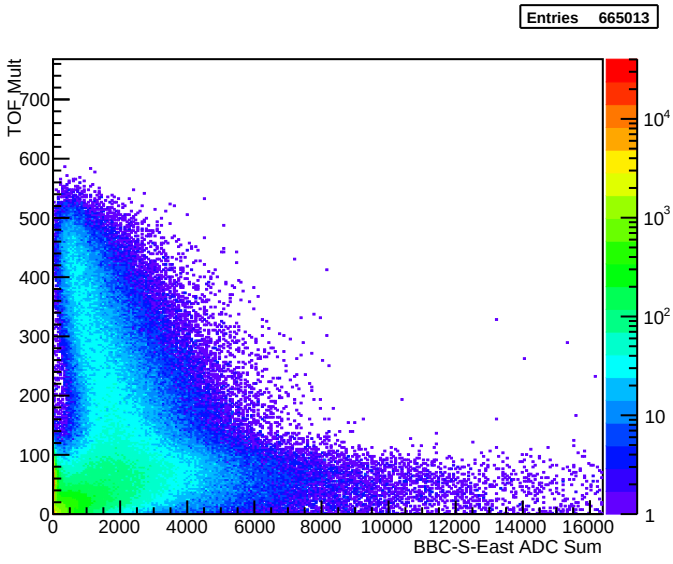

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

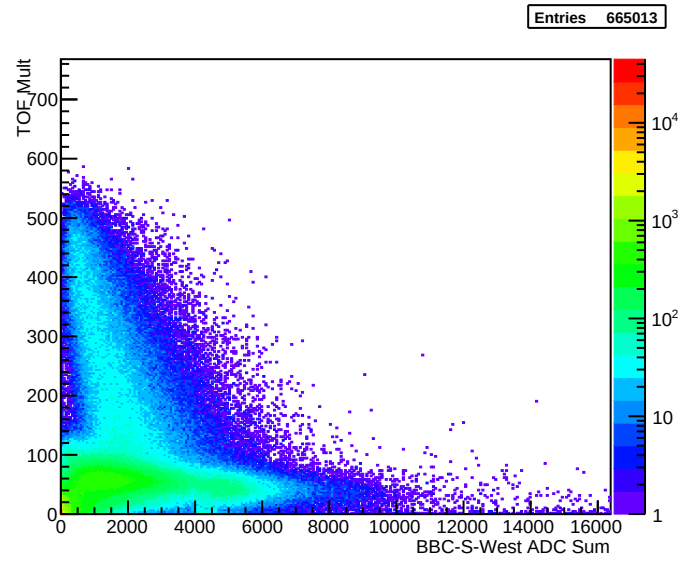

VT201 Input Ch4: VPD Tac Diff
Entries 665013
Tac

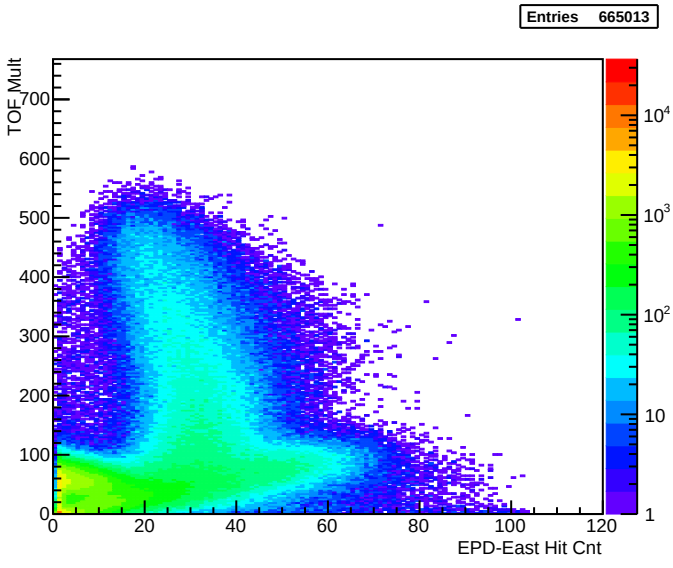

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

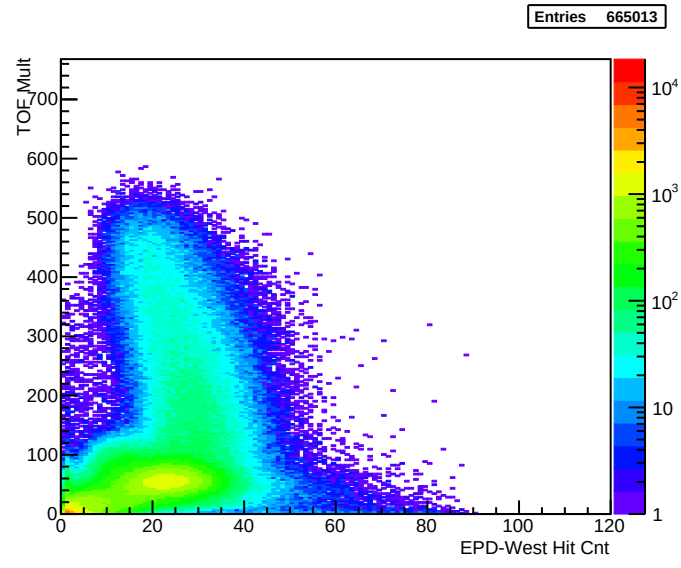

VT201 Input Ch4: VPD Adc Sum Th
Entries 1330026
327354
525872
337659
139141
East
West

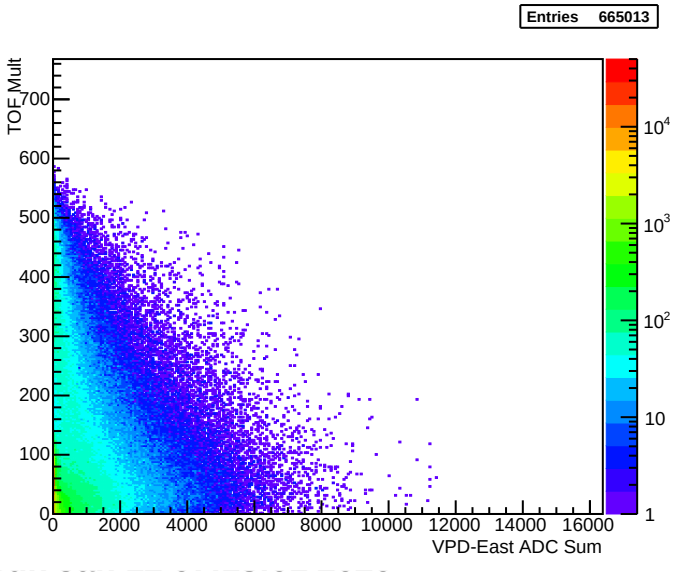

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

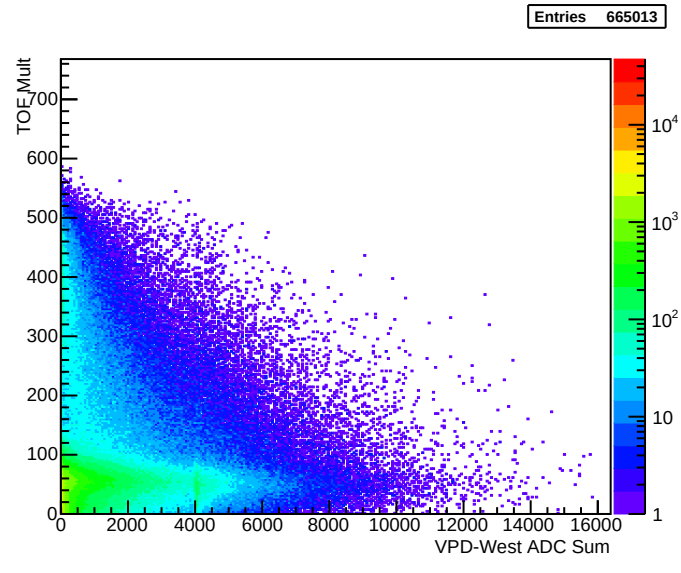

Entries 665013
TOF_Mult
BBC-S-East ADC Sum

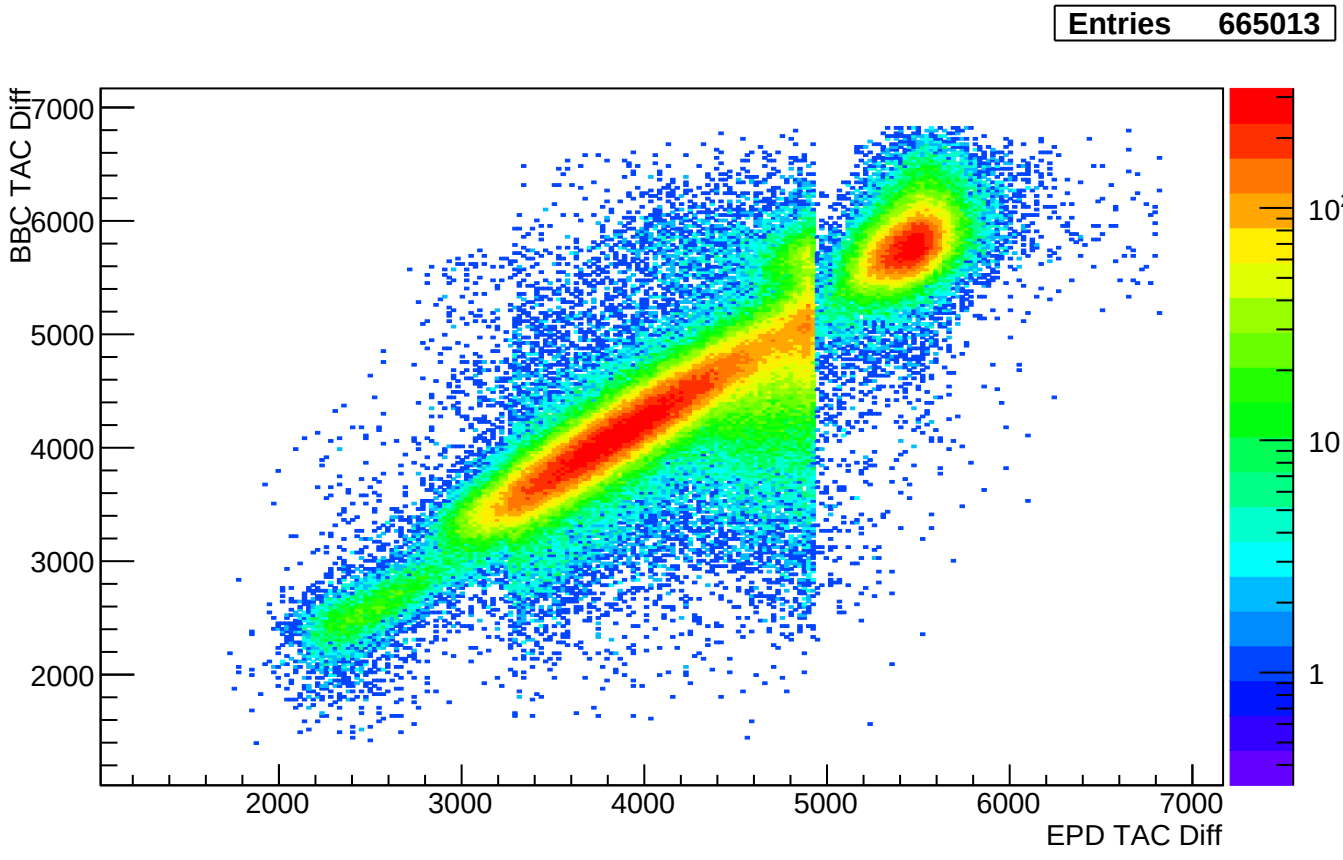

Entries 665013
TOF_Mult
BBC-S-West ADC Sum

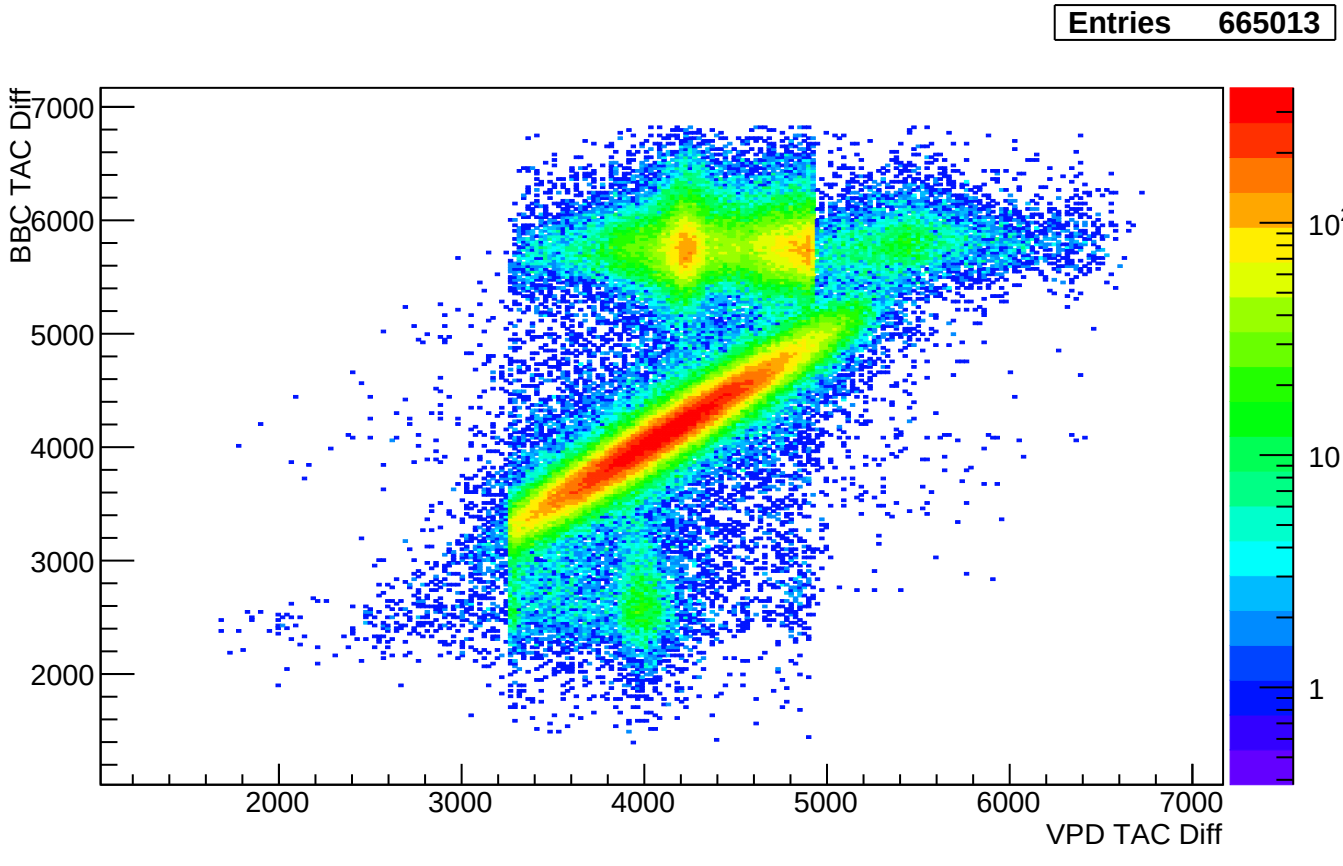

Entries 665013
TOF_Mult
EPD-East Hit Cnt

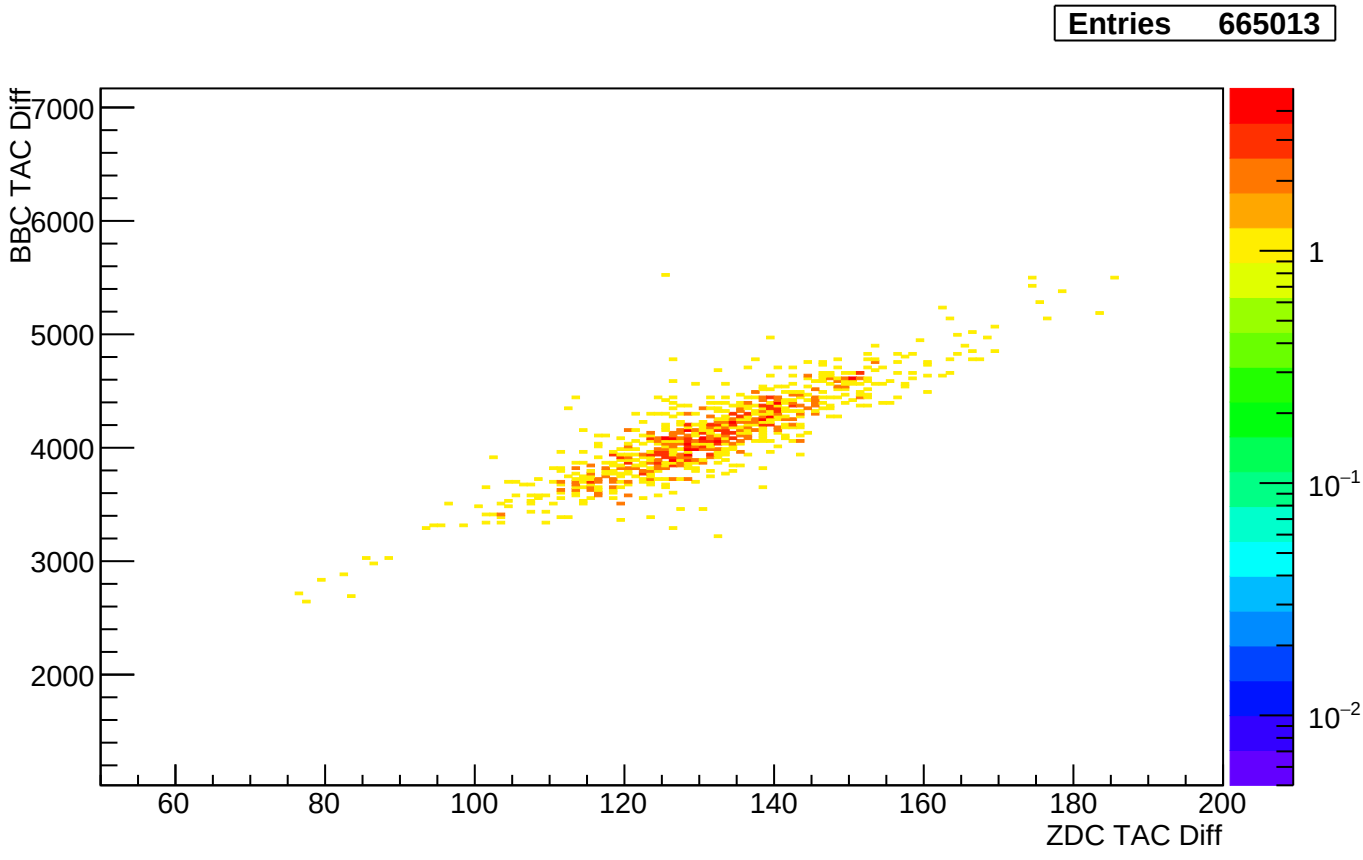

Entries 665013
TOF_Mult
EPD-West Hit Cnt

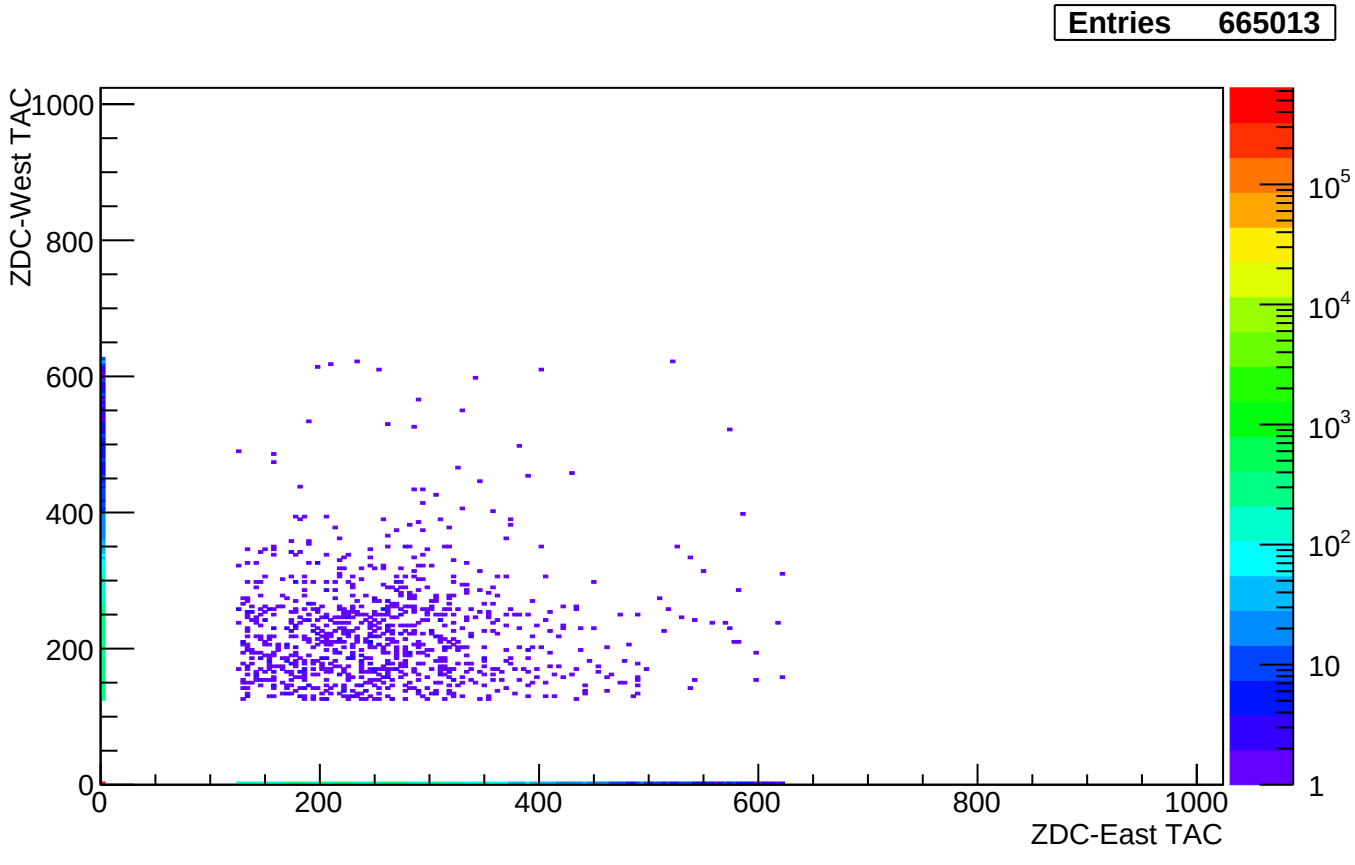

Entries 665013
TOF_Mult
VPD-East ADC Sum

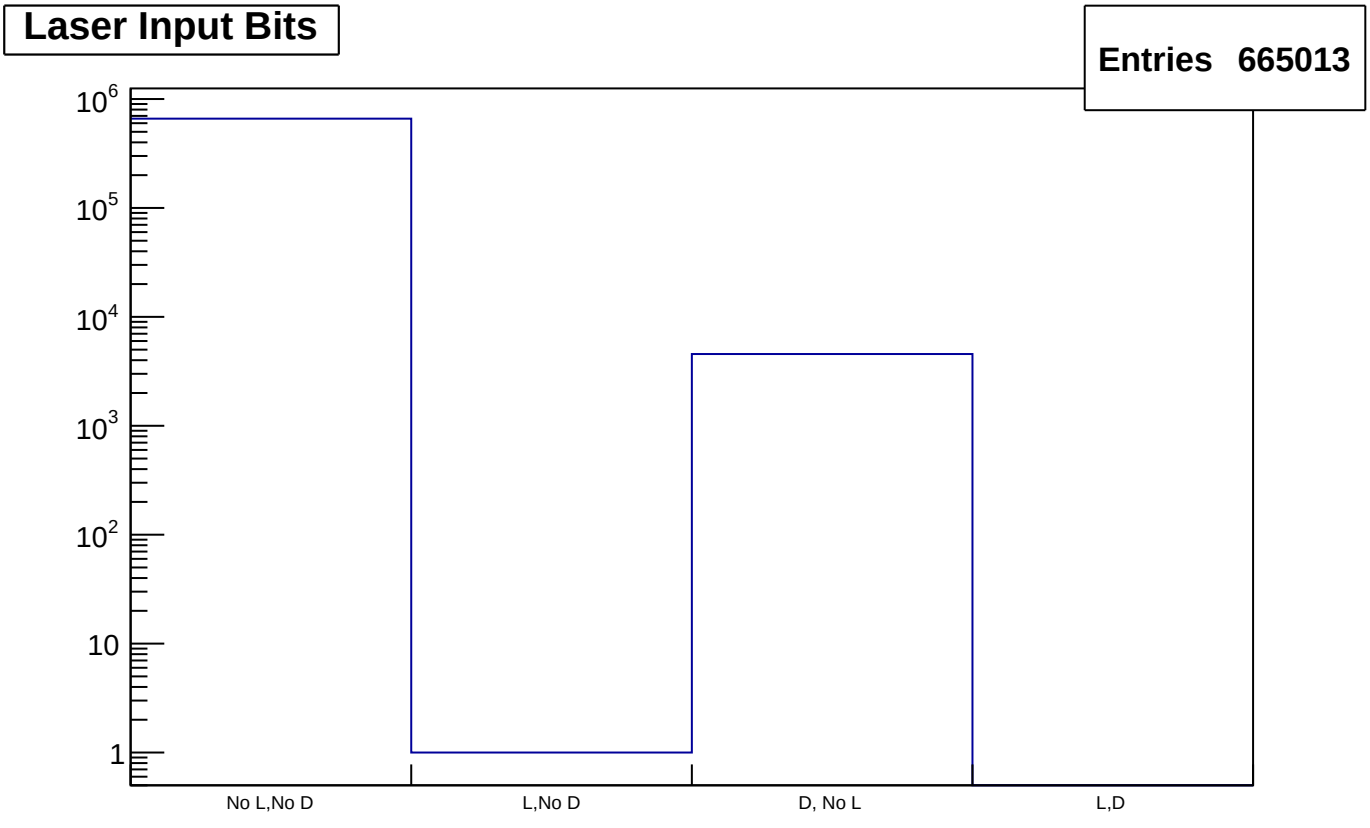

Entries 665013
TOF_Mult
VPD-West ADC Sum

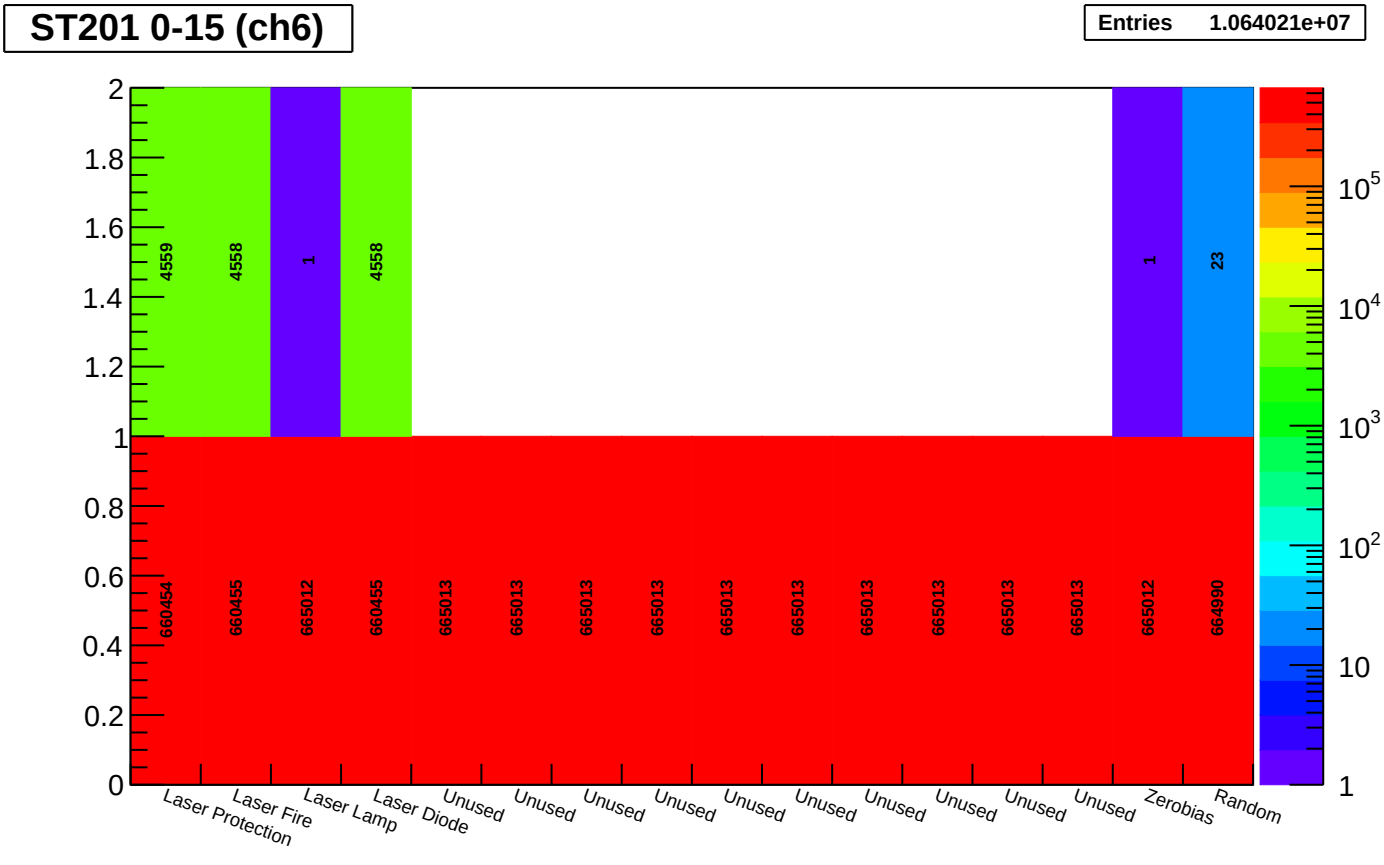

Entries 665013
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

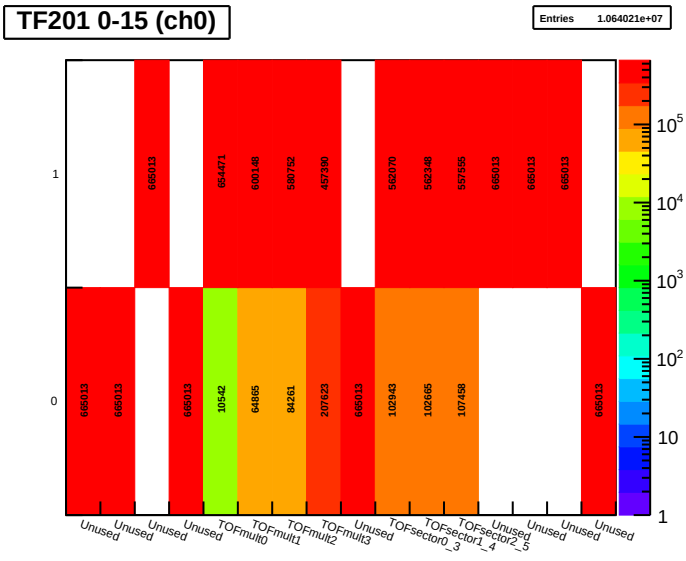

Entries 665013
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

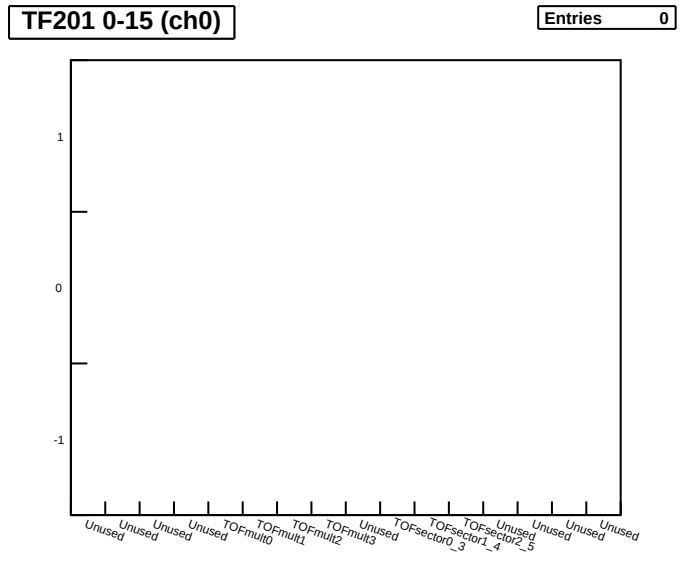

Entries 665013
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

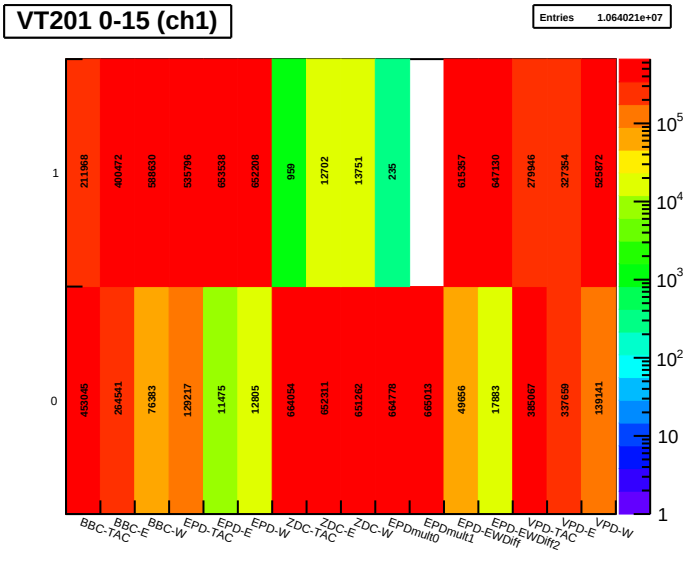

Entries 665013
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

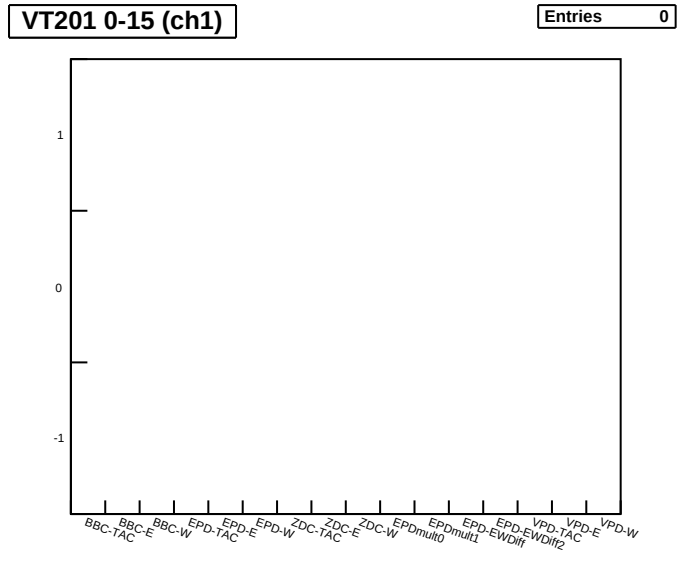

Laser Input Bits
Entries 665013
10^6
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

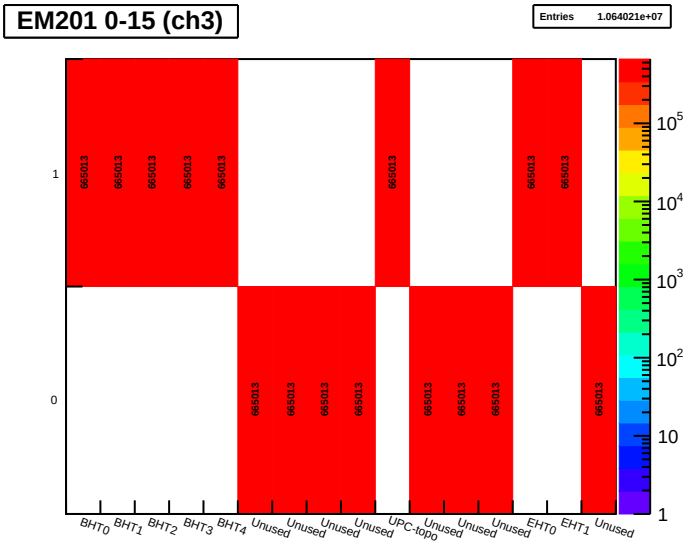

ST201 0-15 (ch6)
Entries 1.064021e+07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4559
4558
1
4558
1
23
660454
660455
665012
660455
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665012
664990
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

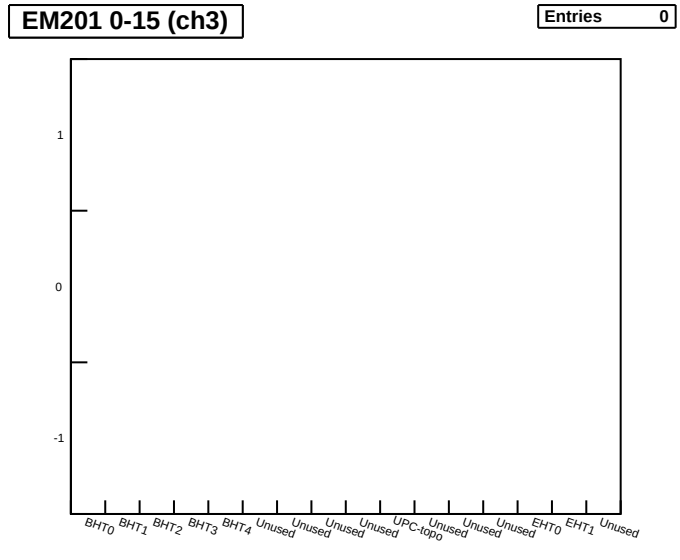

TF201 0-15 (ch0)
Entries 1.064021e+07
1
0
665013
654471
600148
580752
457390
562070
562348
557555
665013
665013
665013
665013
665013
665013
665013
10542
64865
84261
207623
665013
102943
102665
107458
665013
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
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 1.064021e+07
1
0
211968
400472
588630
535786
653538
652208
959
12702
13751
235
615357
647130
279946
327354
525872
453045
264541
76383
129217
11475
12805
664054
652311
651262
664778
665013
49656
17883
388067
337659
139141
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 1.064021e+07
1
0
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
665013
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