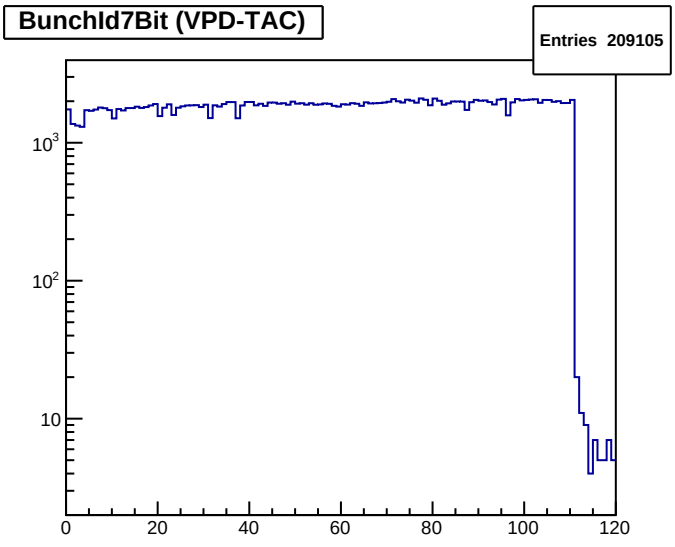
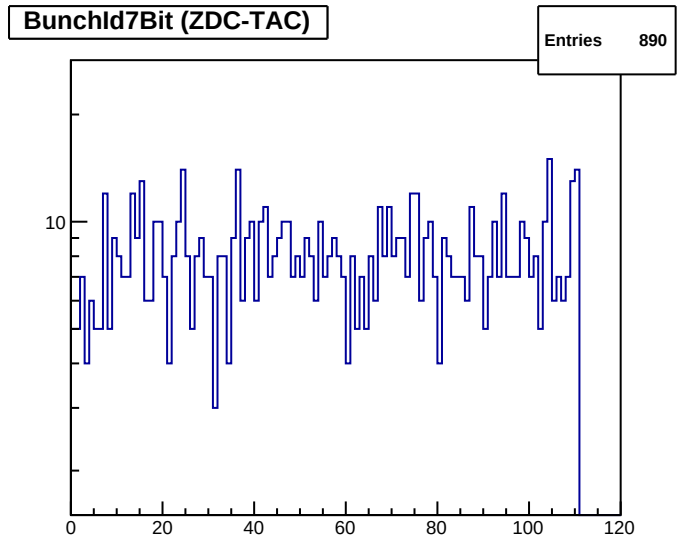
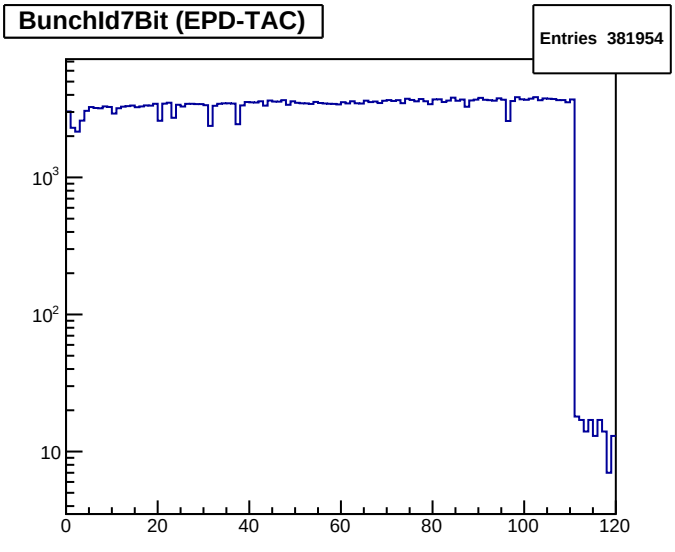
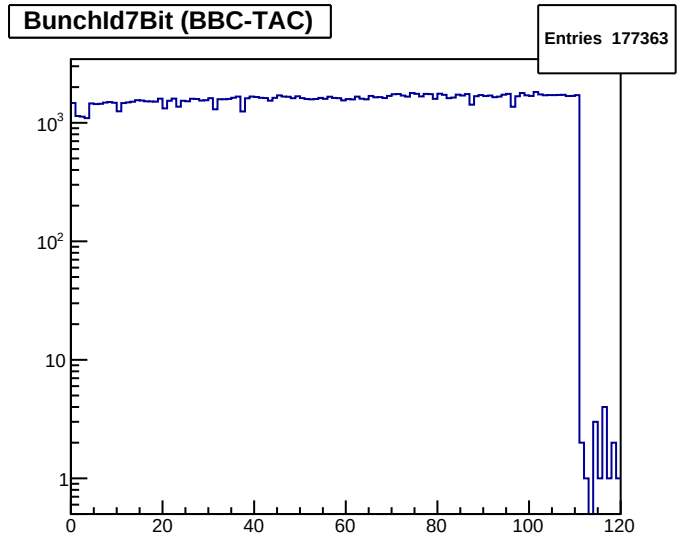
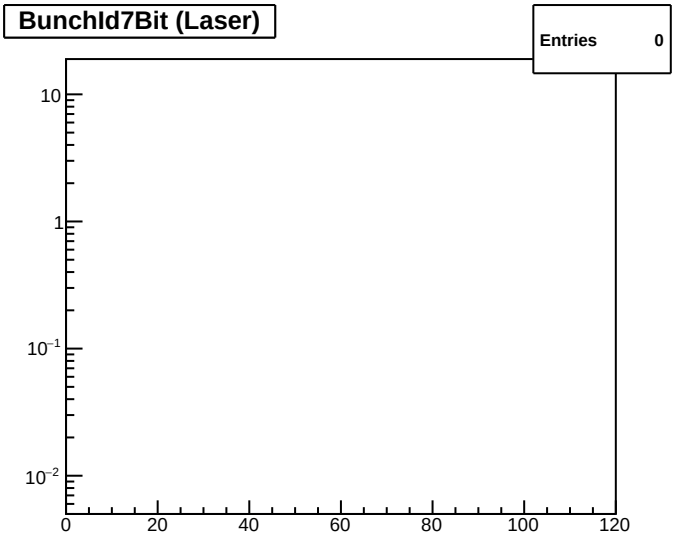
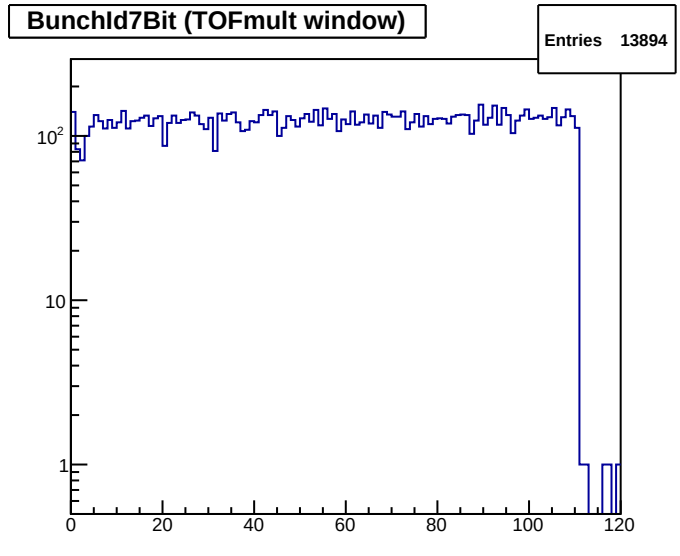

BunchId7Bit (VPD-TAC)
Entries 209105
10^3
10^2
10
0 20 40 60 80 100 120

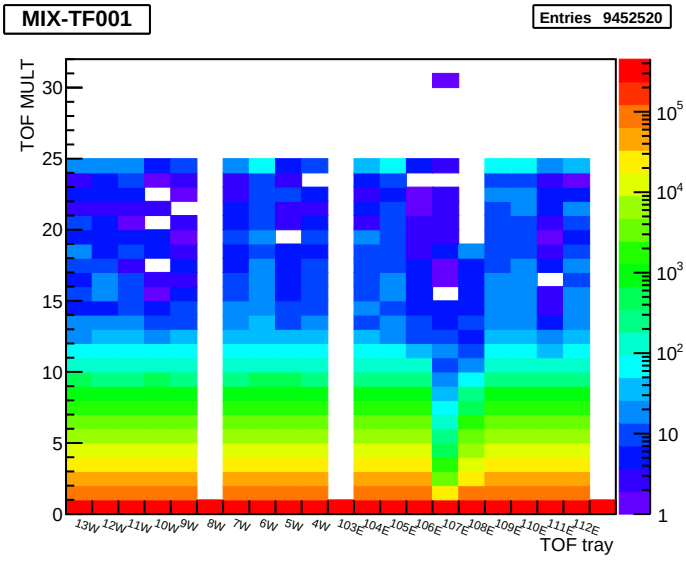

BunchId7Bit (ZDC-TAC)
Entries 890
10
0 20 40 60 80 100 120

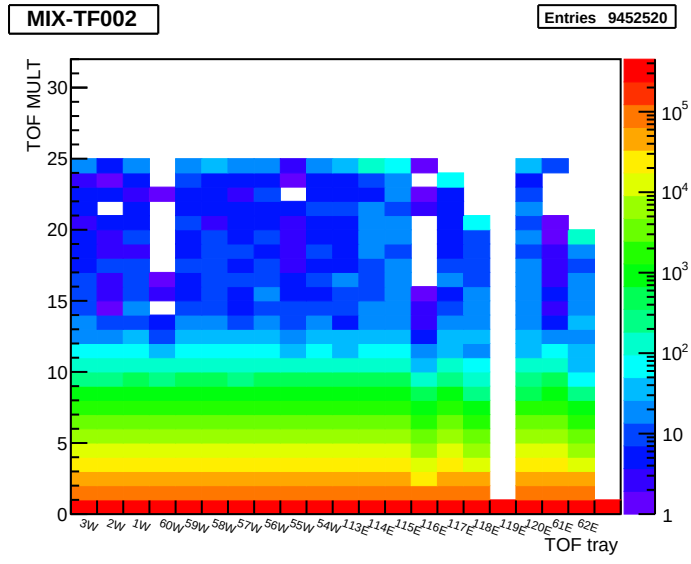

BunchId7Bit (EPD-TAC)
Entries 381954
10^3
10^2
10
0 20 40 60 80 100 120

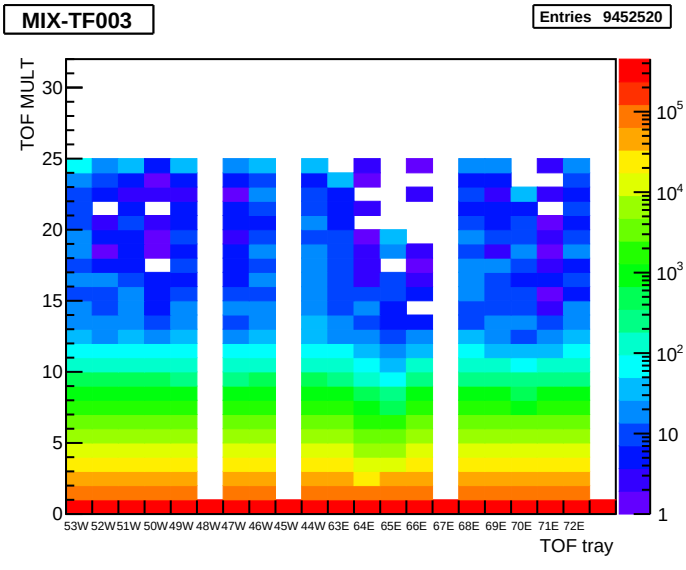

BunchId7Bit (BBC-TAC)
Entries 177363
10^3
10^2
10
1
0 20 40 60 80 100 120

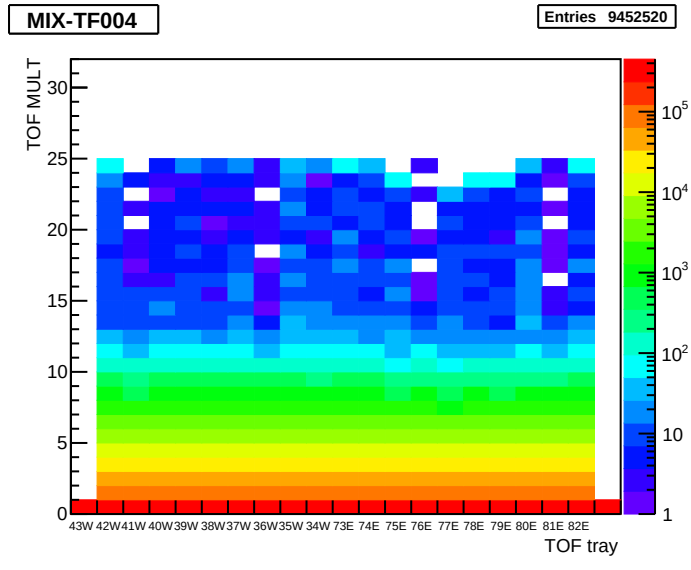

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

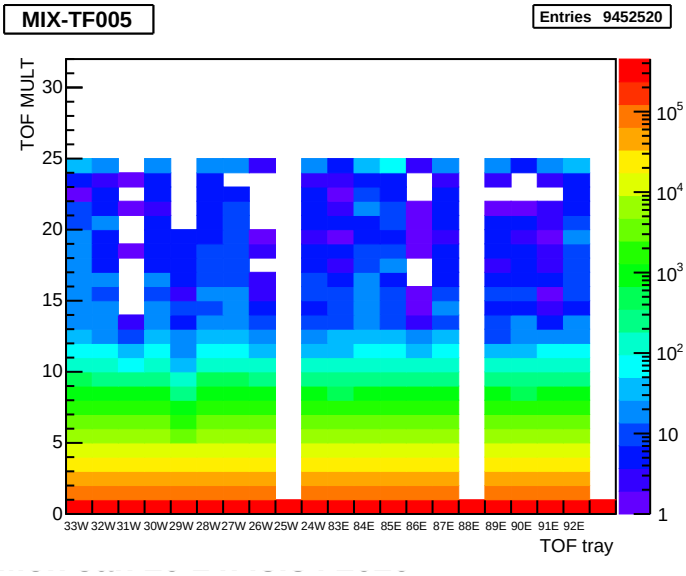

BunchId7Bit (TOFmult window)
Entries 13894
10^2
10
1
0 20 40 60 80 100 120

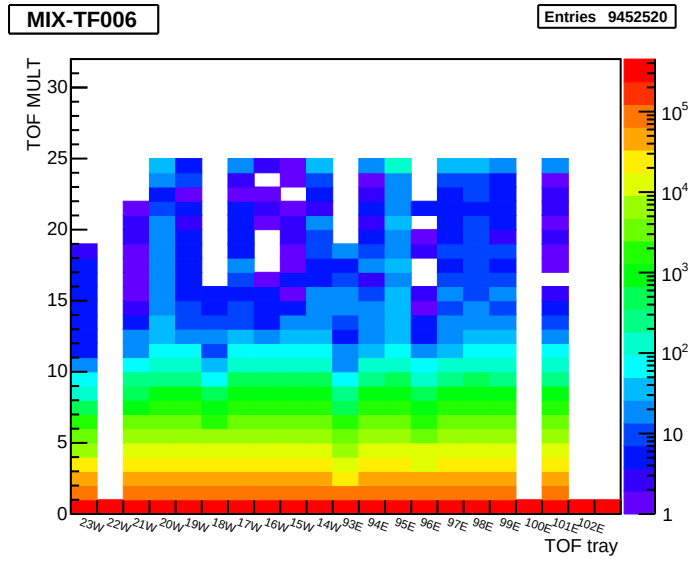

MIX-TF001
Entries 9452520
TOF MULT
TOF tray

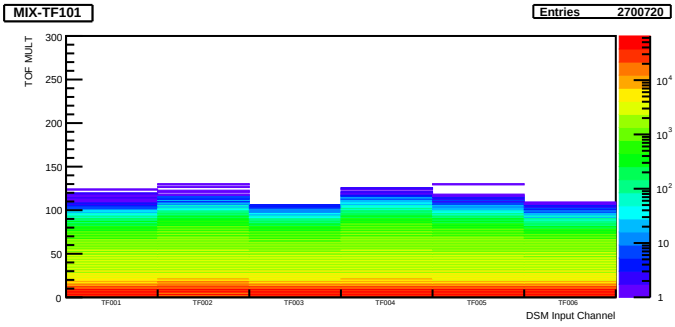

MIX-TF002
Entries 9452520
TOF MULT
TOF tray

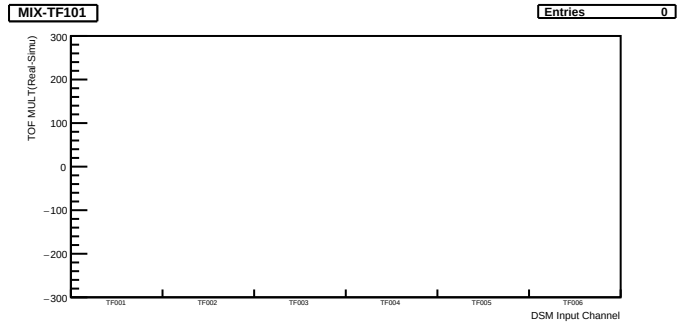

MIX-TF003
Entries 9452520
TOF MULT
TOF tray

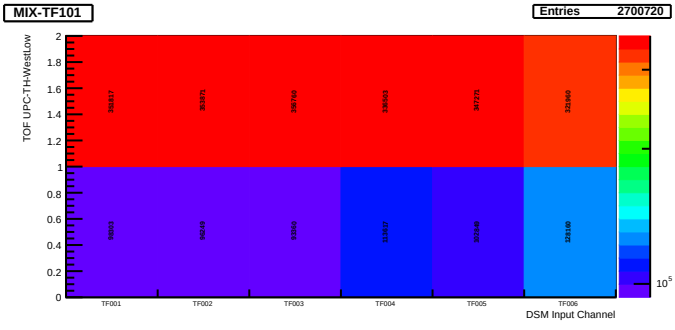

MIX-TF004
Entries 9452520
TOF MULT
TOF tray

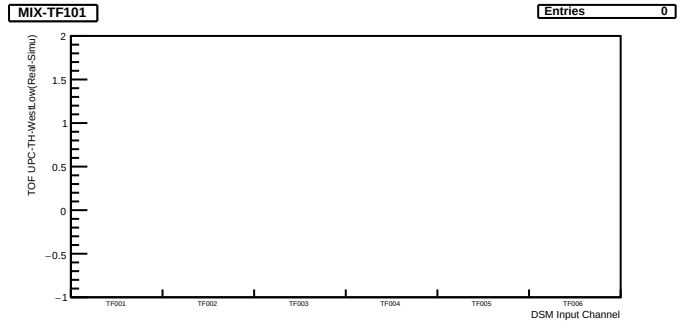

MIX-TF005
Entries 9452520
TOF MULT
TOF tray

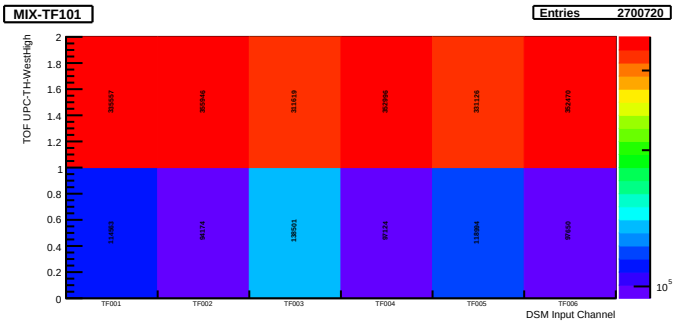

MIX-TF006
Entries 9452520
TOF MULT
TOF tray

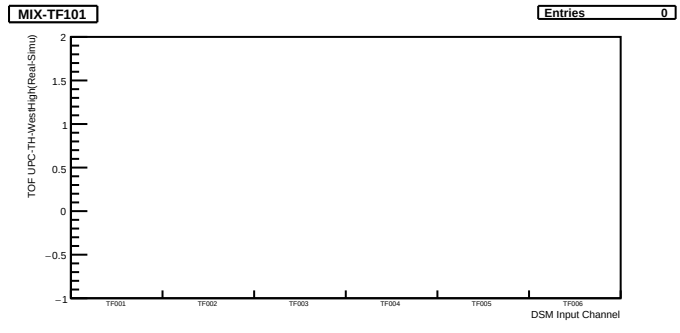

MIX-TF101
Entries 2700720
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

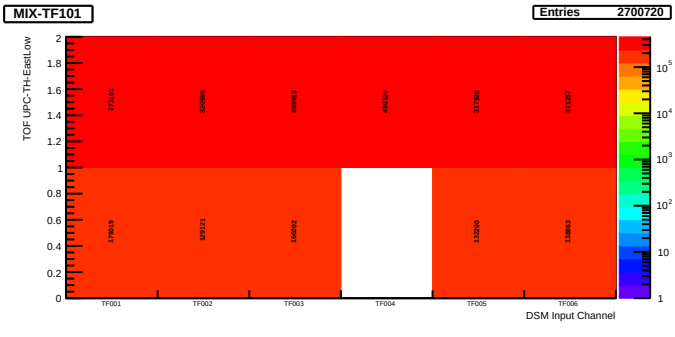

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

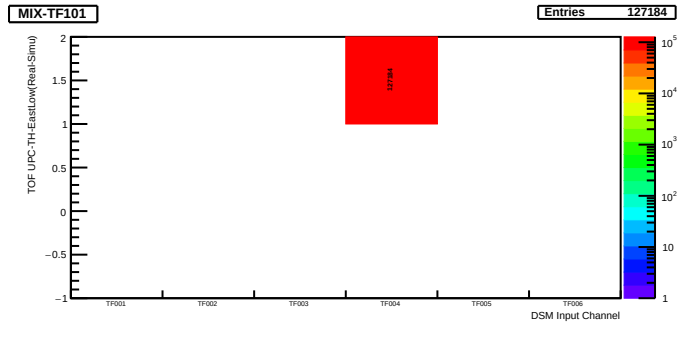

MIX-TF101
Entries 2700720
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

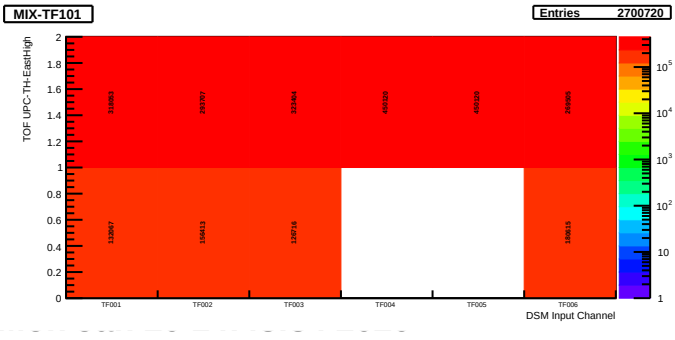

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

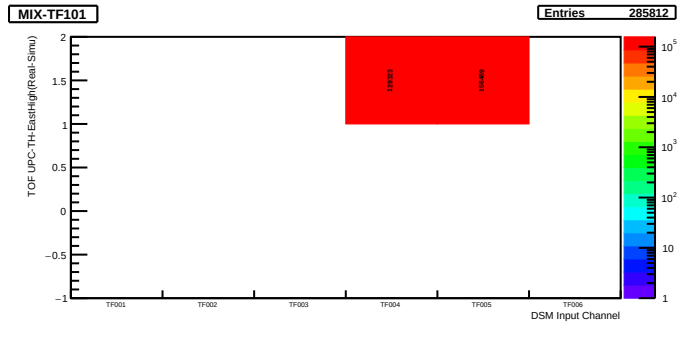

MIX-TF101
Entries 2700720
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

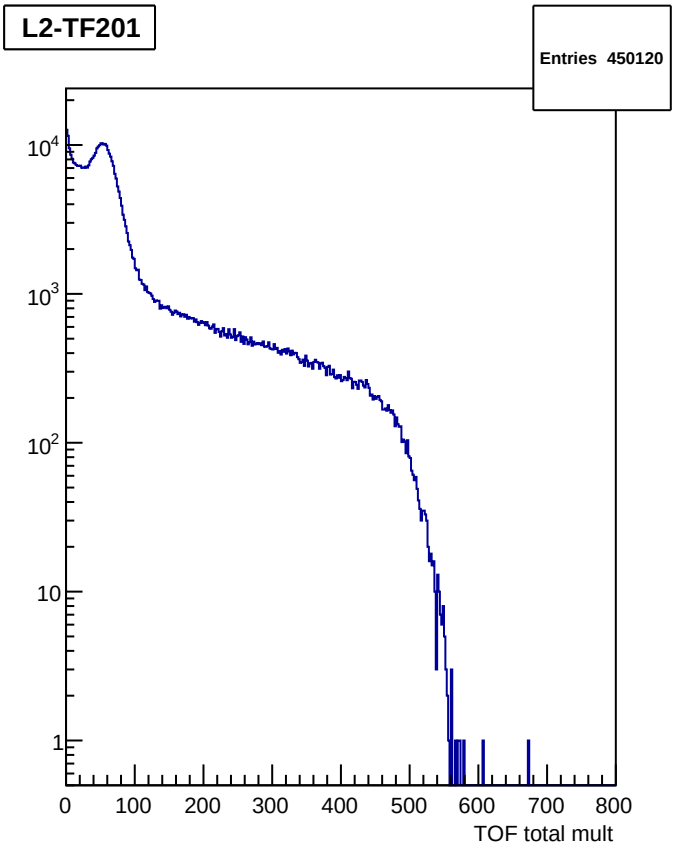

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

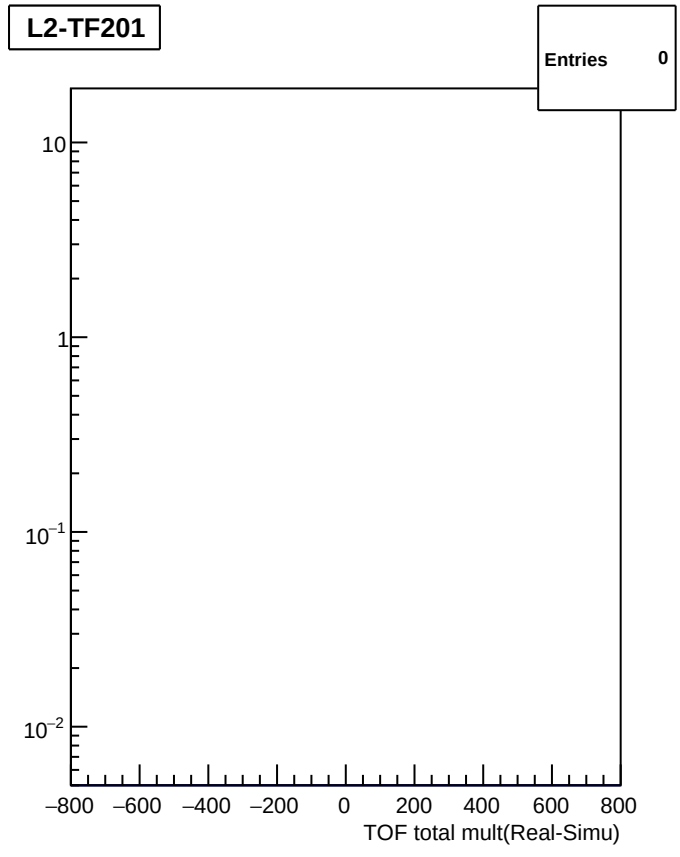

MIX-TF101
Entries 2700720
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

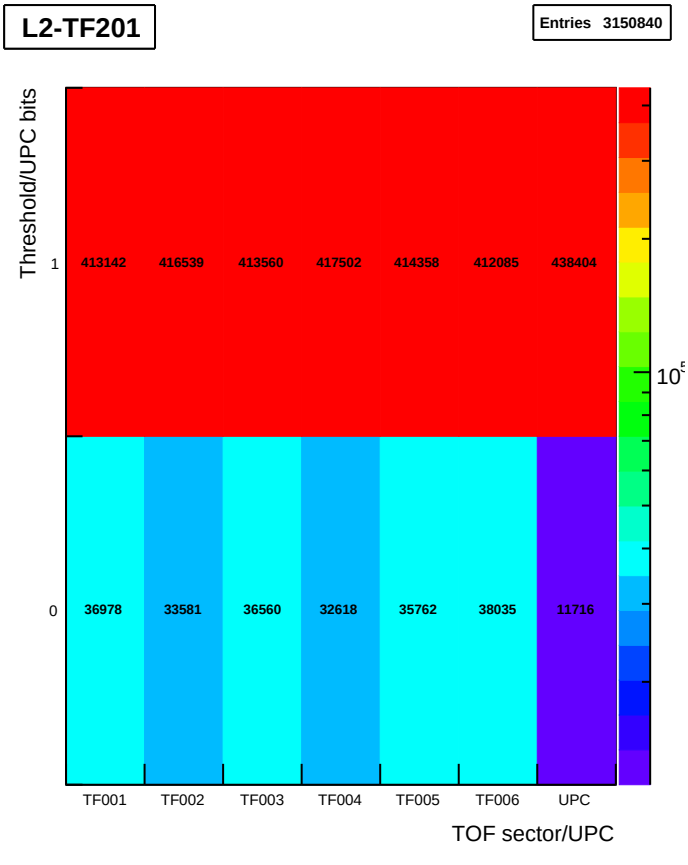

MIX-TF101
Entries 127184
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

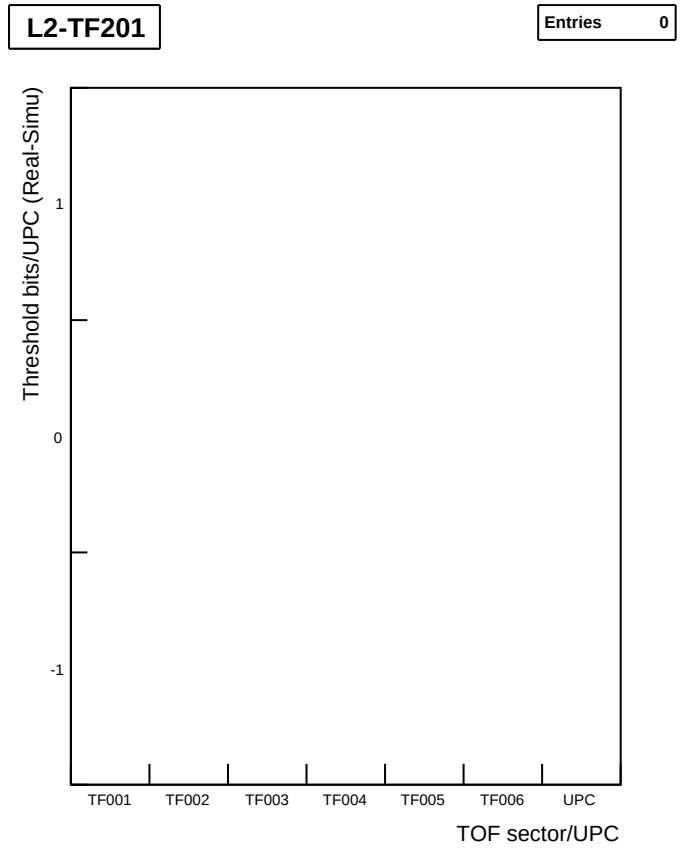

MIX-TF101
Entries 2700720
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

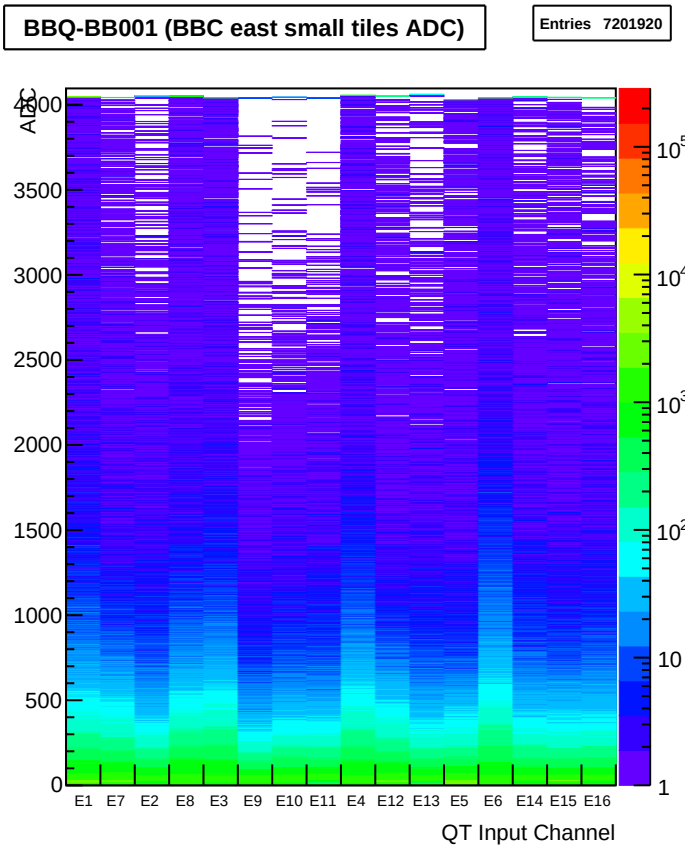

MIX-TF101
Entries 285812
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

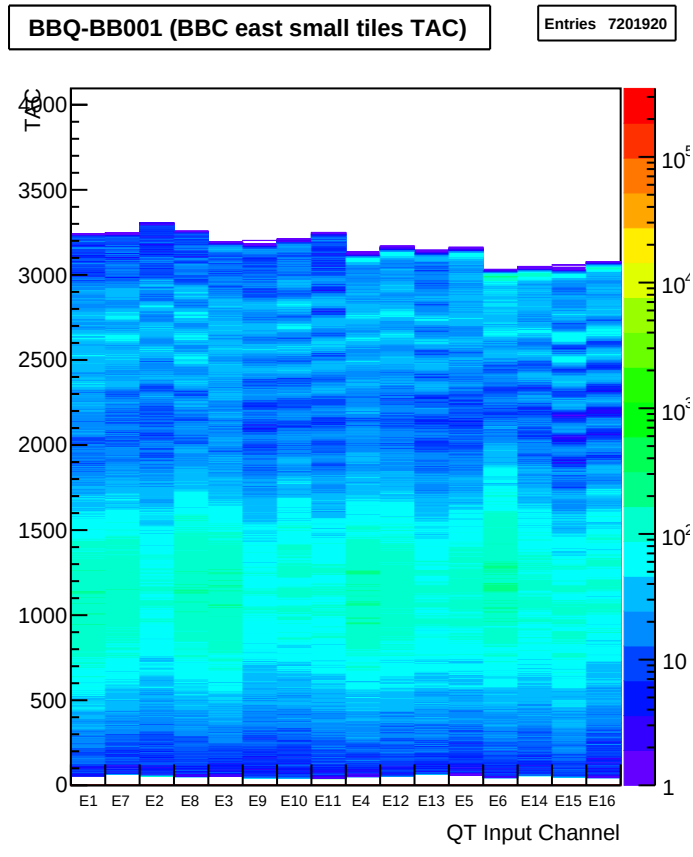

L2-TF201
Entries 450120
TOF total mult

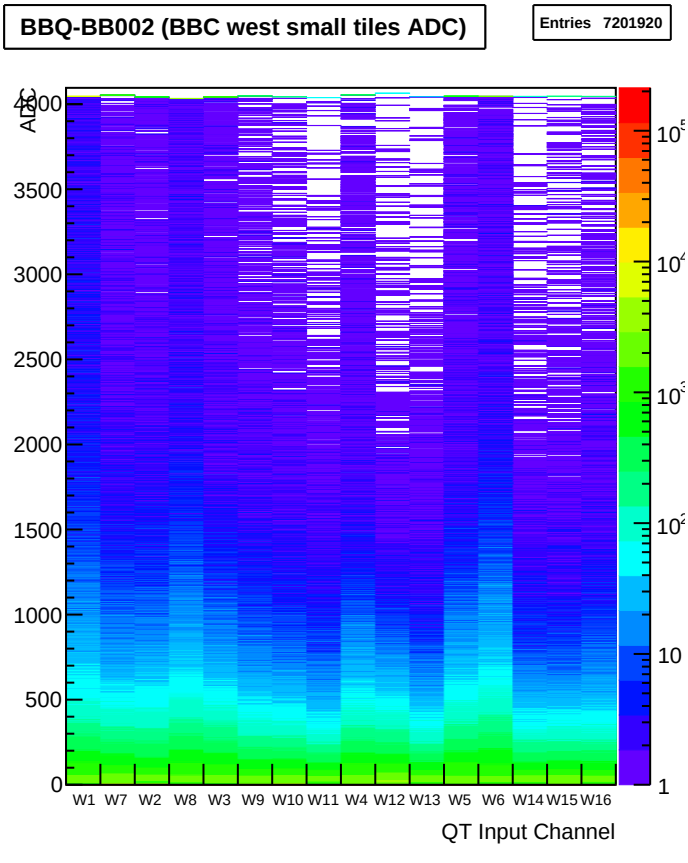

L2-TF201
Entries 0
TOF total mult(Real-Simu)

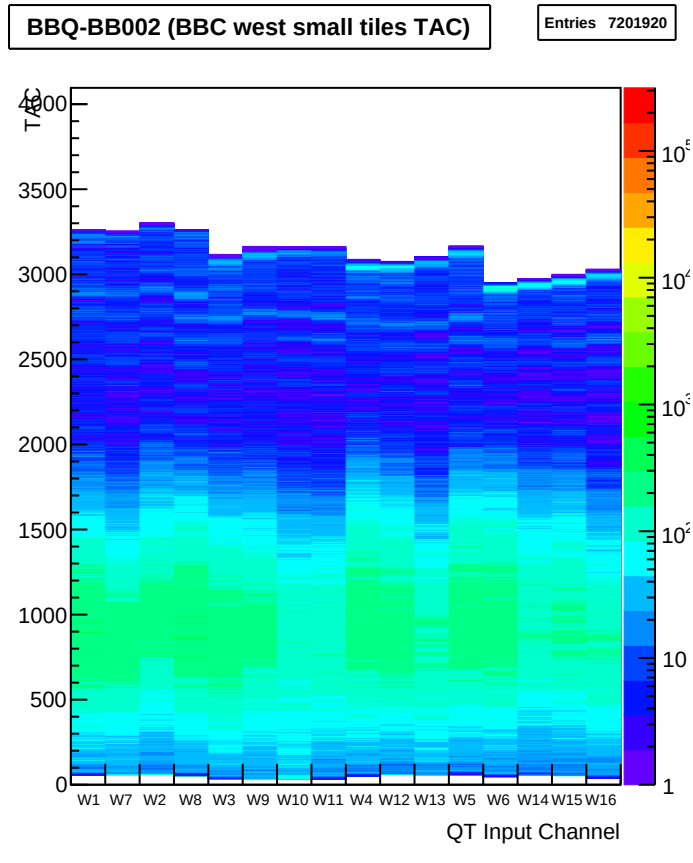

L2-TF201
Entries 3150840
Threshold/UPC bits
413142
416539
413560
417502
414358
412085
438404
36978
33581
36560
32618
35762
38035
11716
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

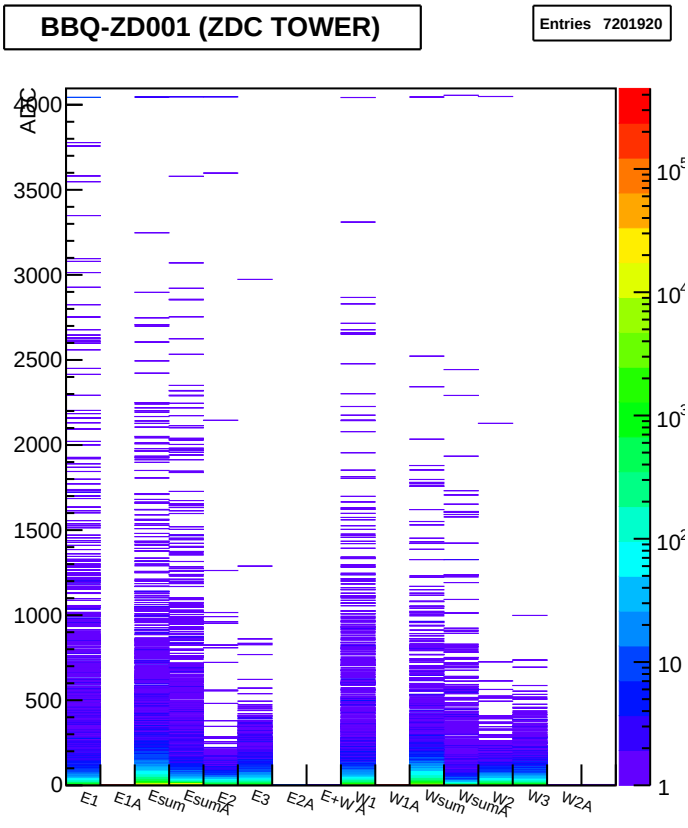

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

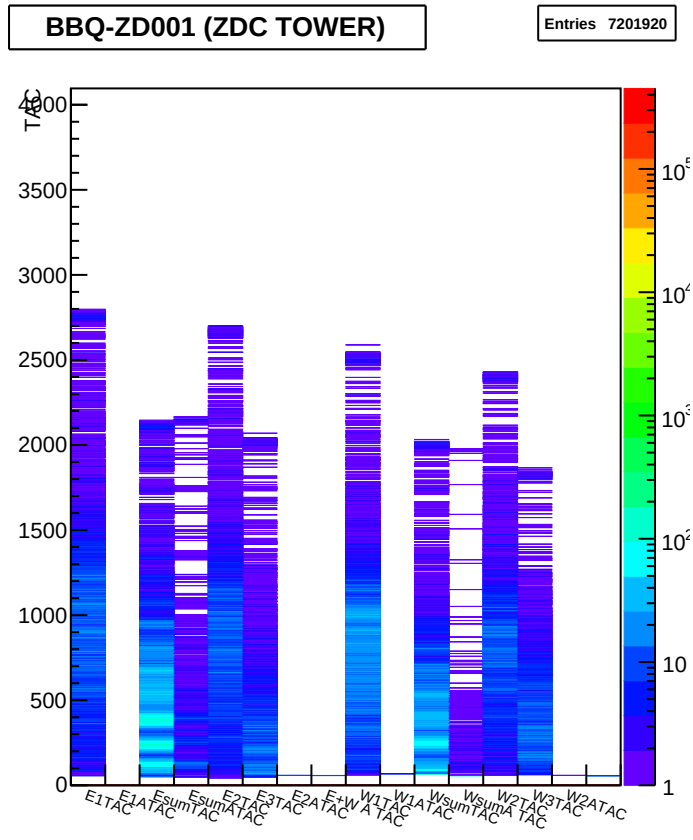

BBQ-BB001 (BBC east small tiles ADC)
Entries 7201920
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

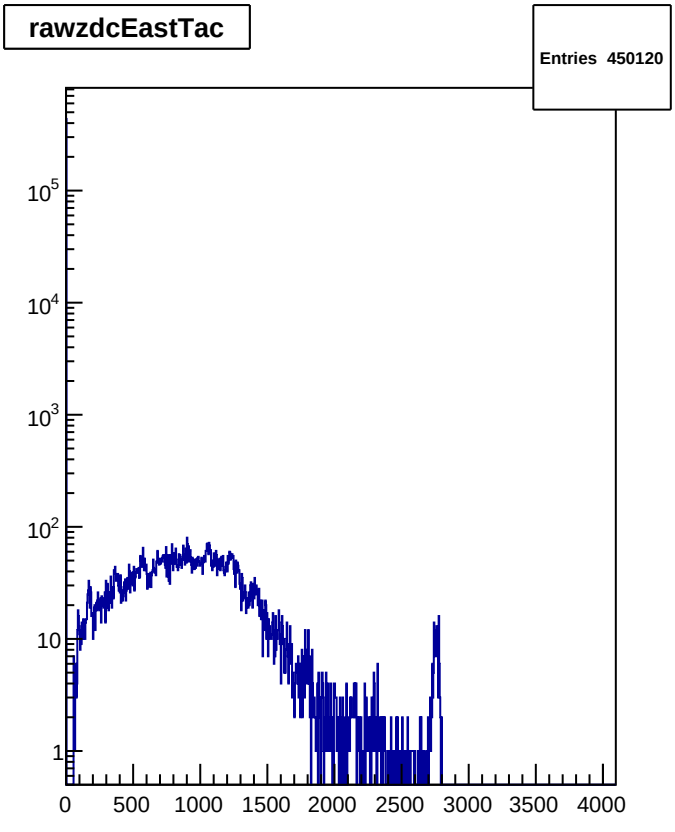

BBQ-BB001 (BBC east small tiles TAC)
Entries 7201920
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

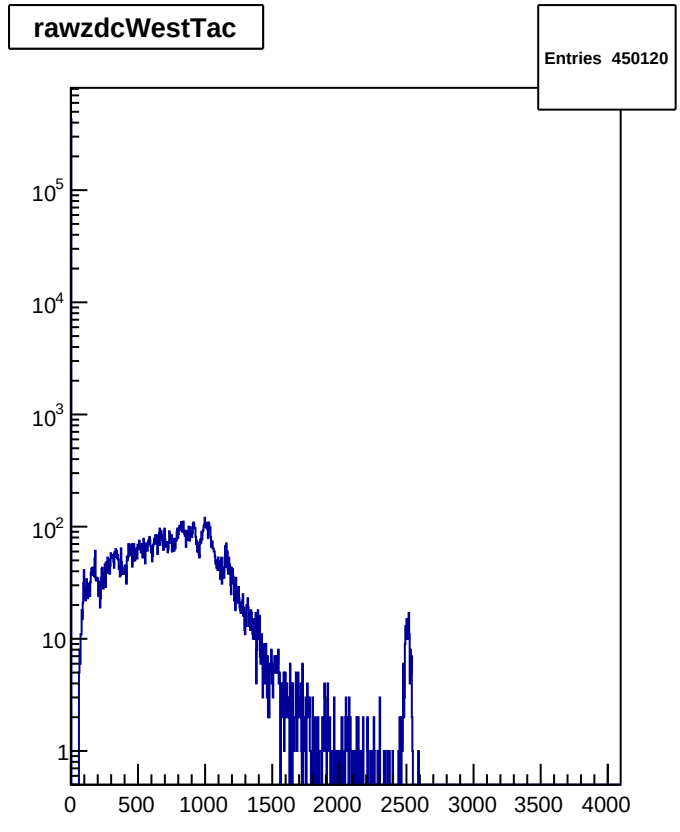

BBQ-BB002 (BBC west small tiles ADC)
Entries 7201920
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

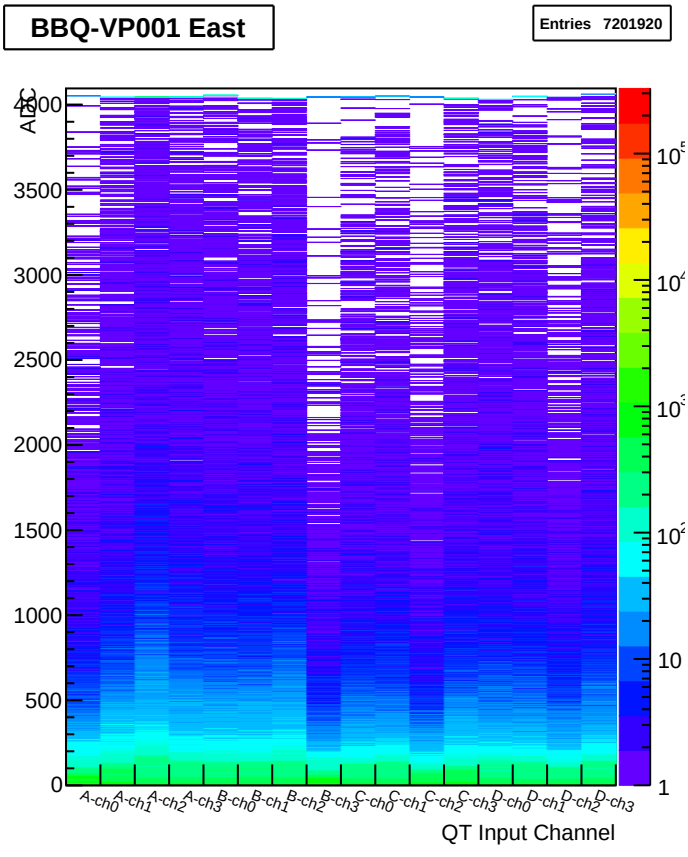

BBQ-BB002 (BBC west small tiles TAC)
Entries 7201920
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

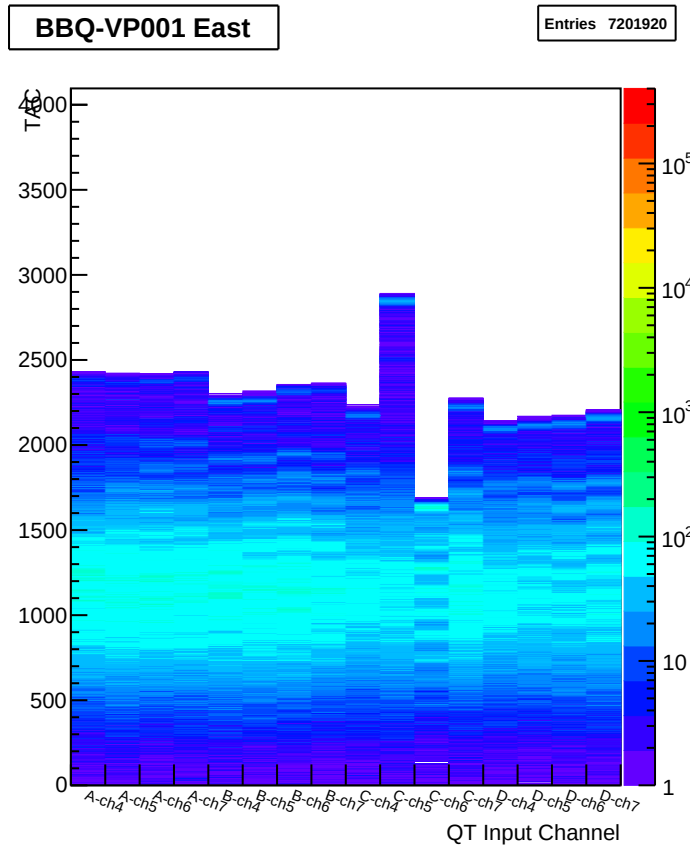

BBQ-ZD001 (ZDC TOWER)
Entries 7201920
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W A
W1
W1A
Wsum
WsumA
W2
W3
W2A

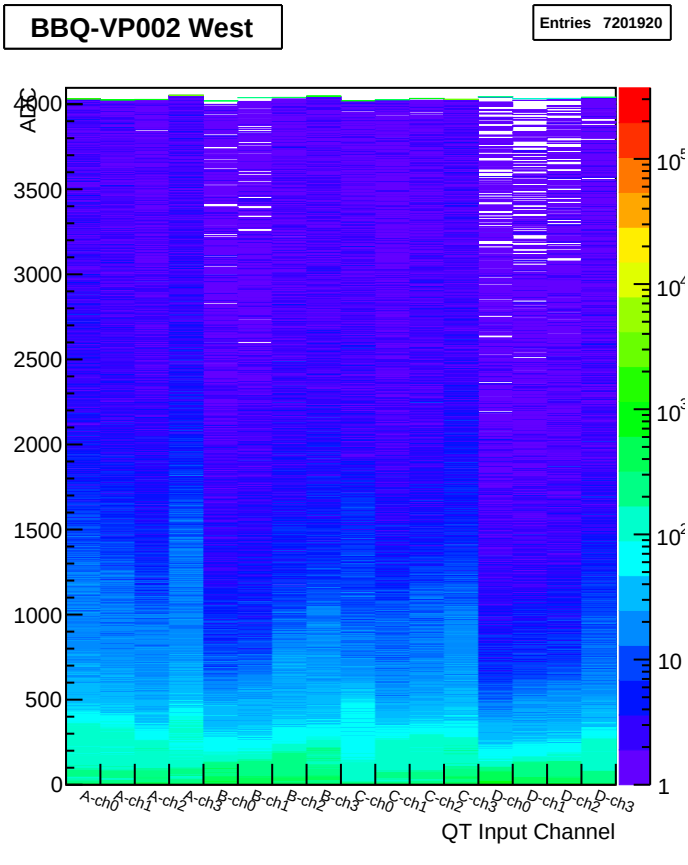

BBQ-ZD001 (ZDC TOWER)
Entries 7201920
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

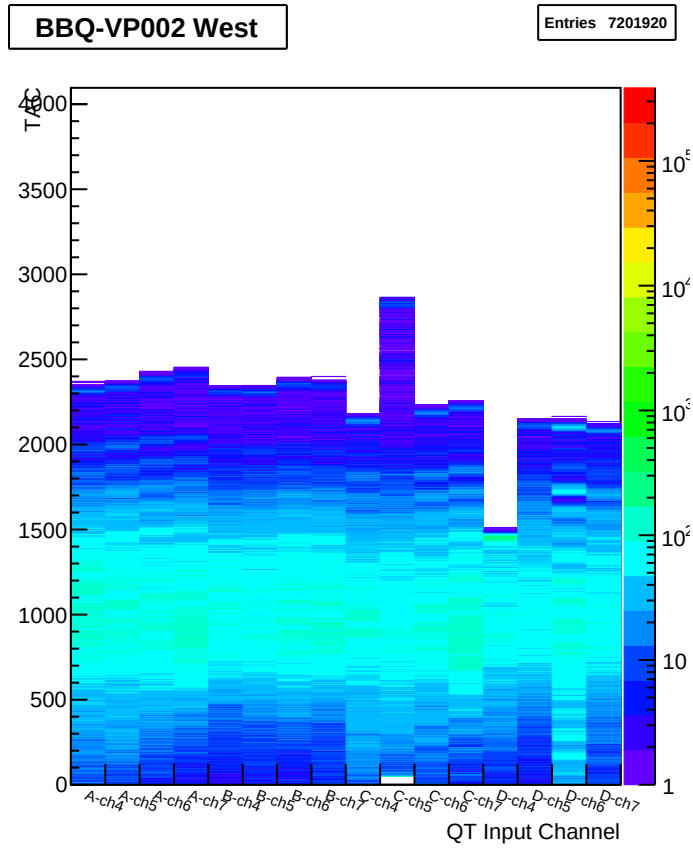

rawzdcEastTac
Entries 450120

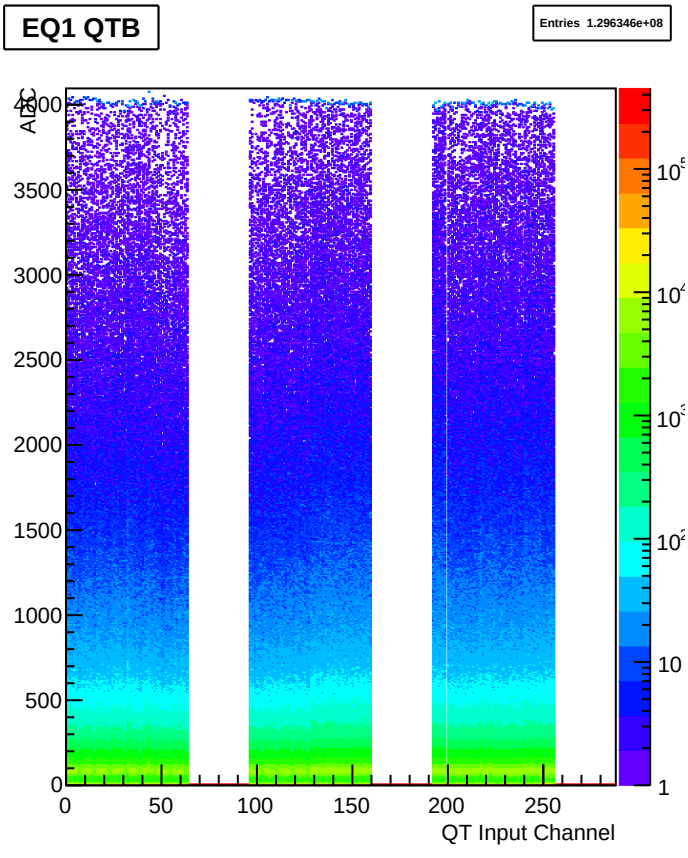

rawzdcWestTac
Entries 450120

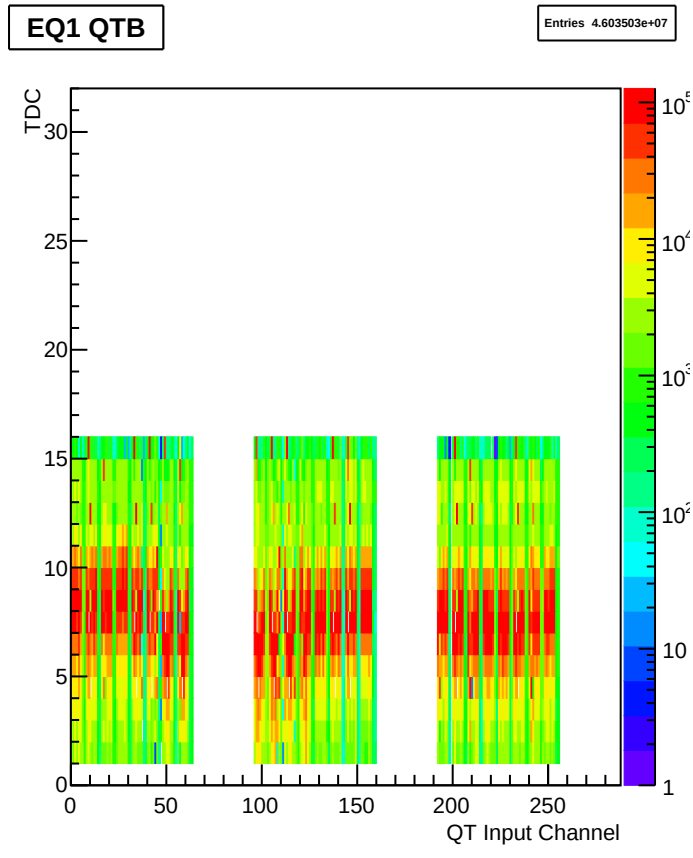

BBQ-VP001 East
Entries 7201920
ADC
QT Input Channel

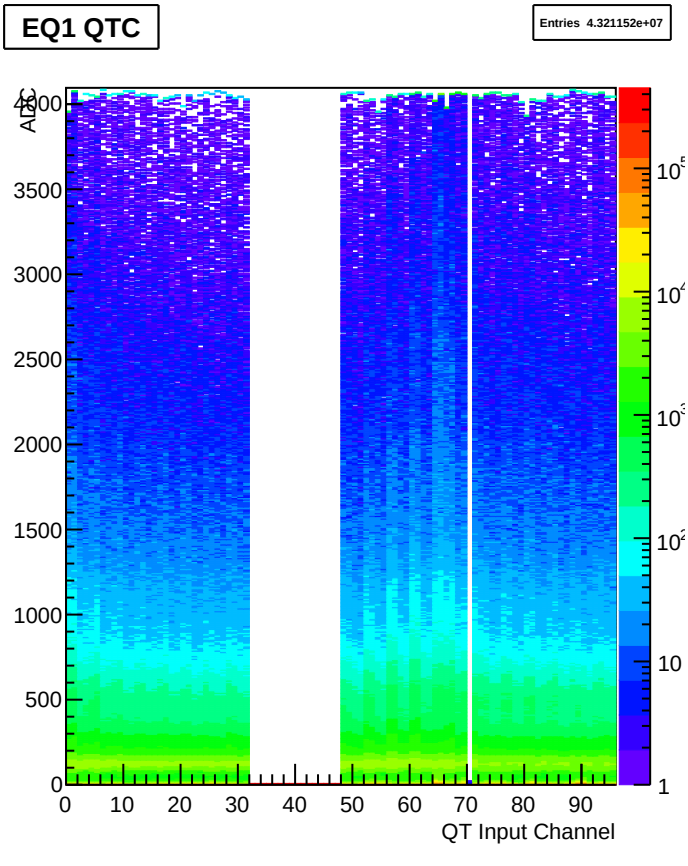

BBQ-VP001 East
Entries 7201920
TADC
QT Input Channel

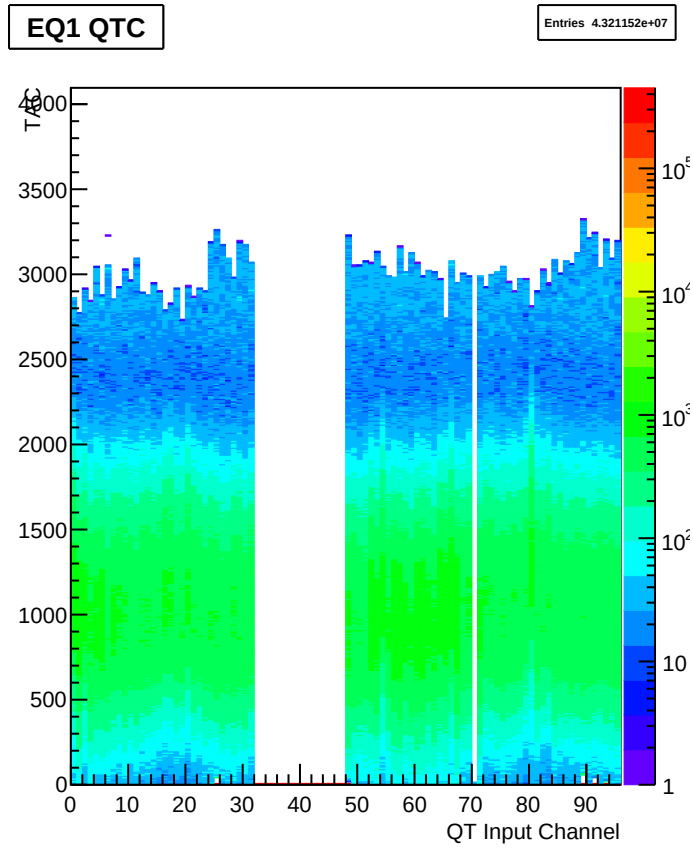

BBQ-VP002 West
Entries 7201920
ADC
QT Input Channel

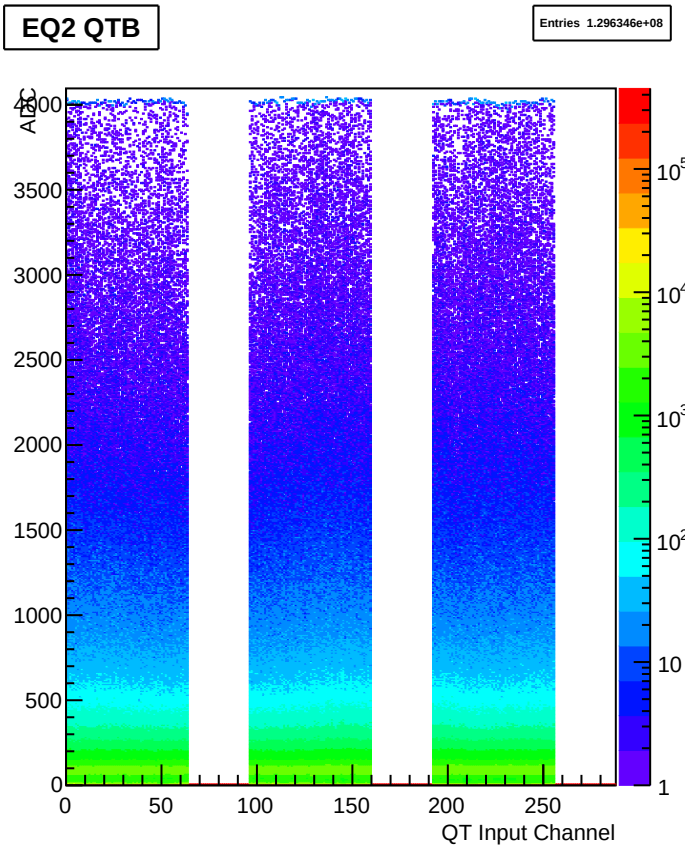

BBQ-VP002 West
Entries 7201920
TADC
QT Input Channel

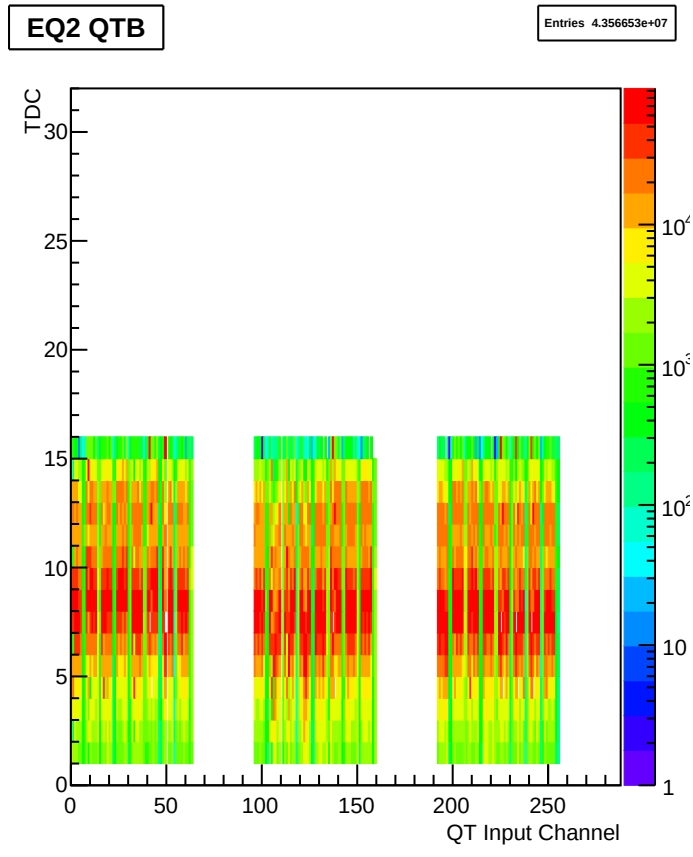

EQ1 QTB
Entries 1.296346e+08
ADC
QT Input Channel

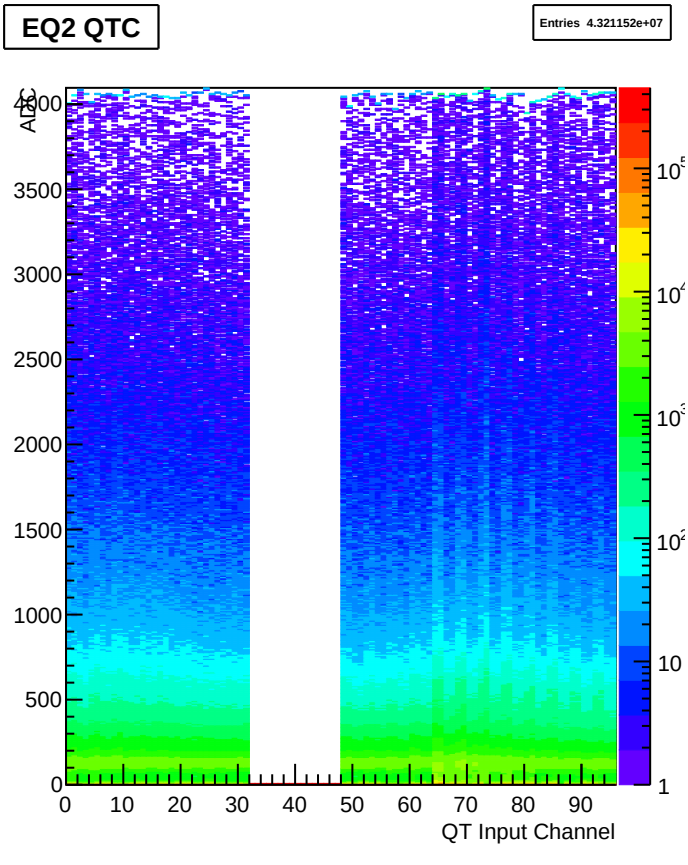

EQ1 QTB
Entries 4.603503e+07
TDC
QT Input Channel

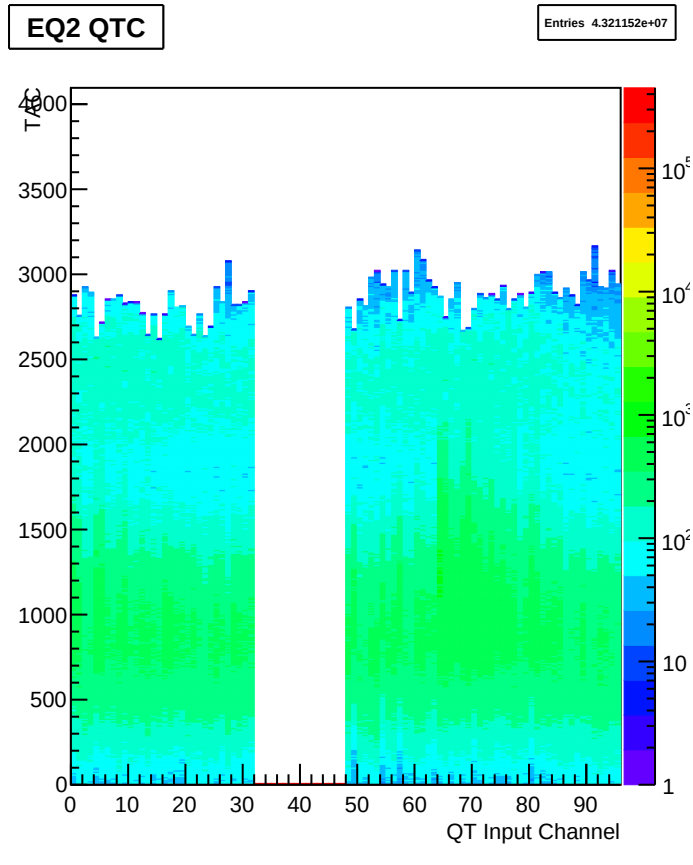

EQ1 QTC
Entries 4.321152e+07
ADC
QT Input Channel

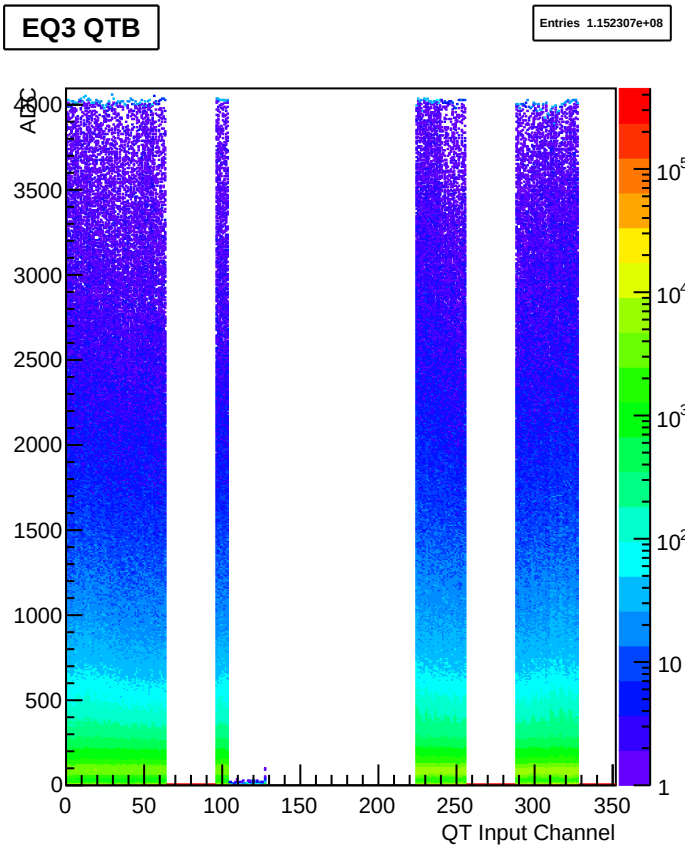

EQ1 QTC
Entries 4.321152e+07
TADC
QT Input Channel

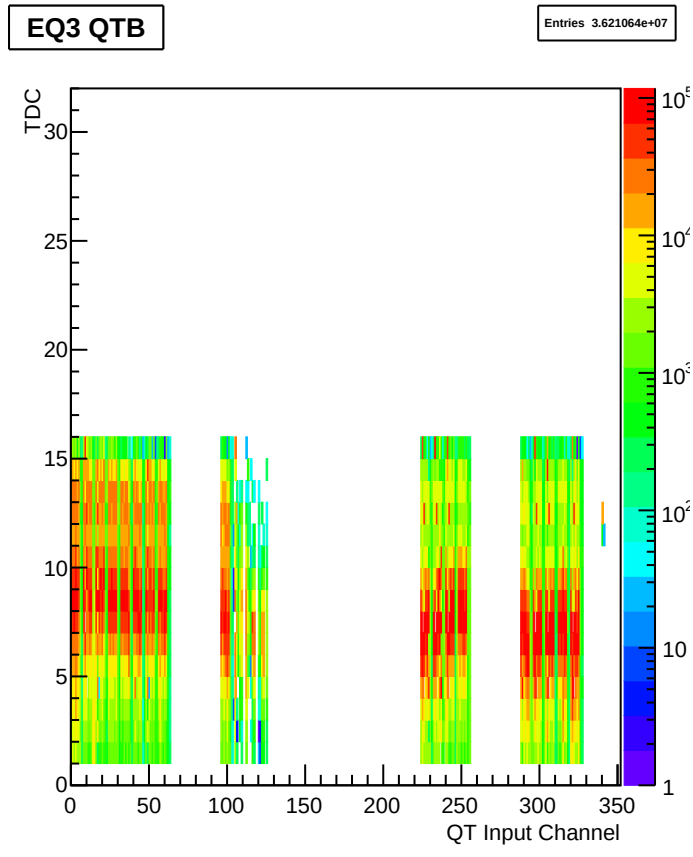

EQ2 QTB
Entries 1.296346e+08
ADC
QT Input Channel

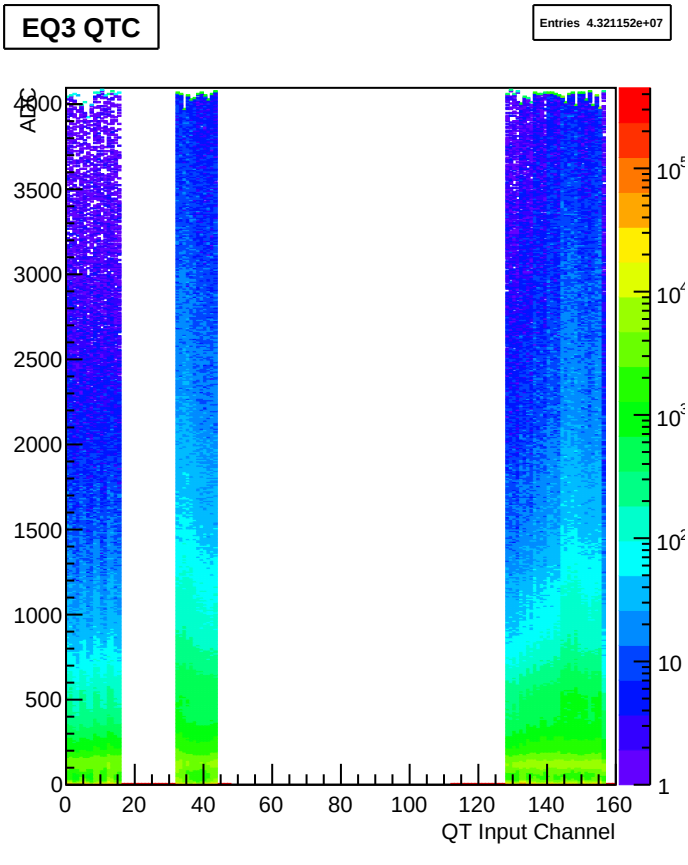

EQ2 QTB
Entries 4.356653e+07
TDC
QT Input Channel

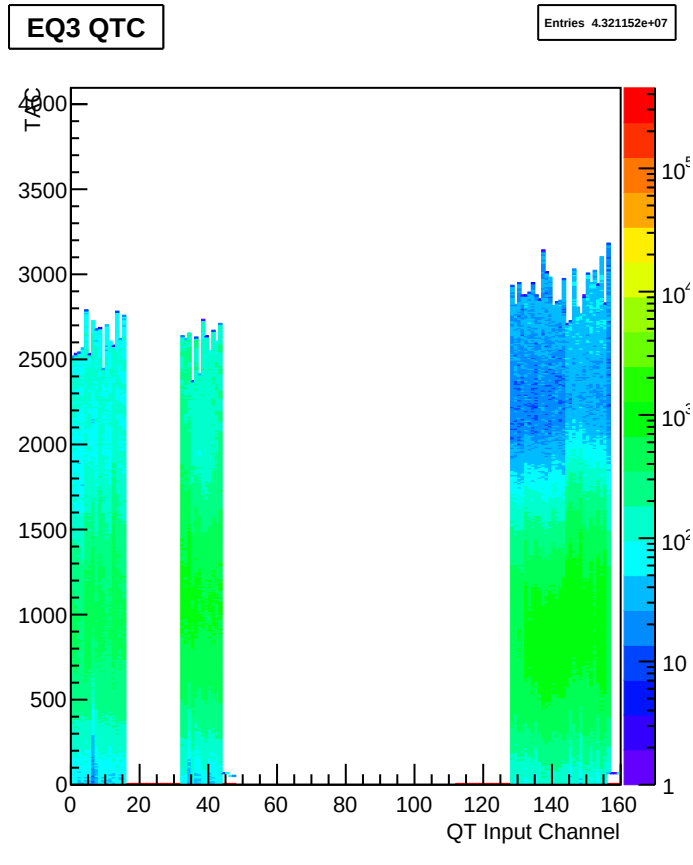

EQ2 QTC
Entries 4.321152e+07
ADC
QT Input Channel

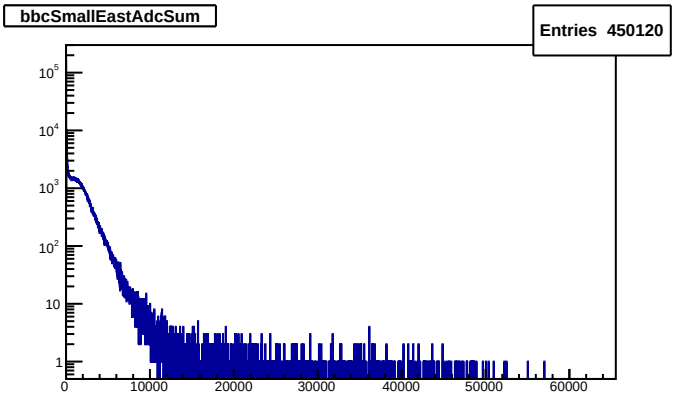

EQ2 QTC
Entries 4.321152e+07
TADC
QT Input Channel

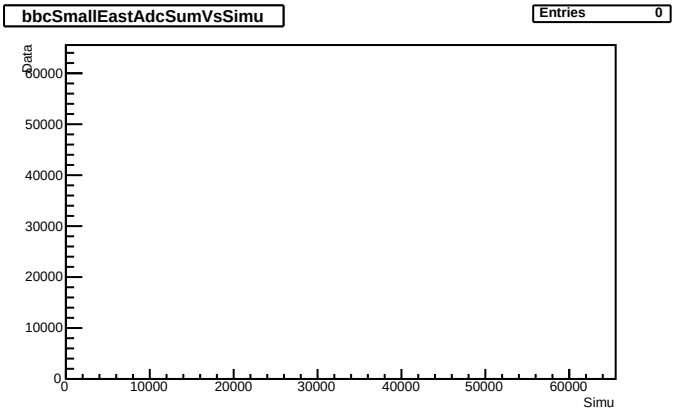

EQ3 QTB
Entries 1.152307e+08
ADC
QT Input Channel

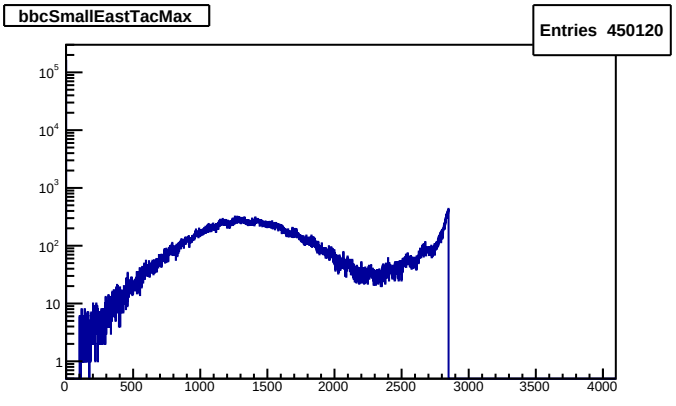

EQ3 QTB
Entries 3.621064e+07
TDC
QT Input Channel

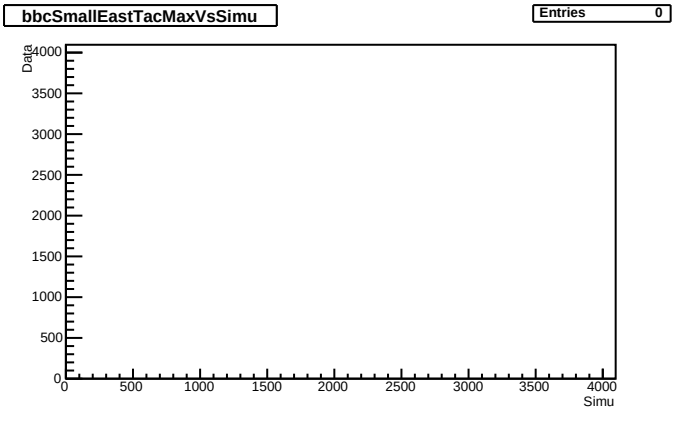

EQ3 QTC
Entries 4.321152e+07
ADC
QT Input Channel


EQ3 QTC
Entries 4.321152e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 450120


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 450120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Entries 0
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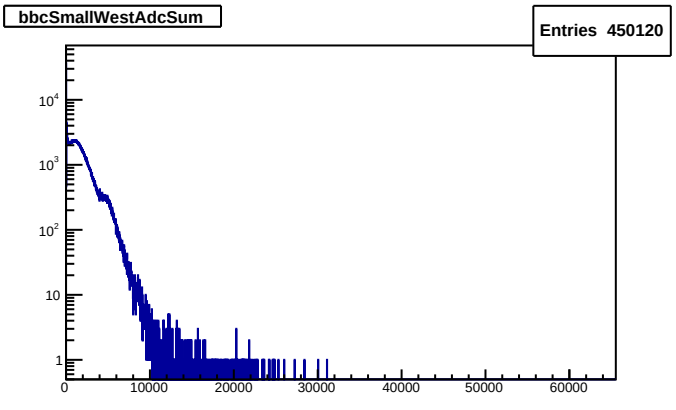
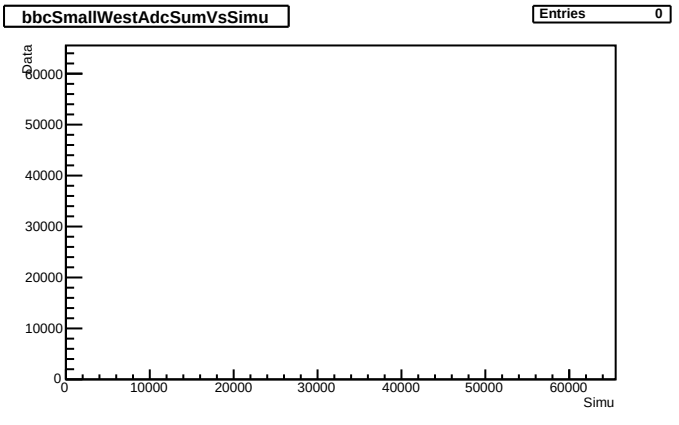

bbcSmallWestAdcSum
Entries 450120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Entries 0
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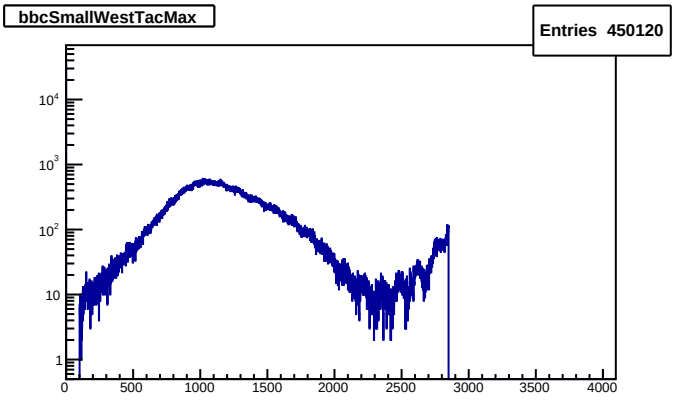
Simu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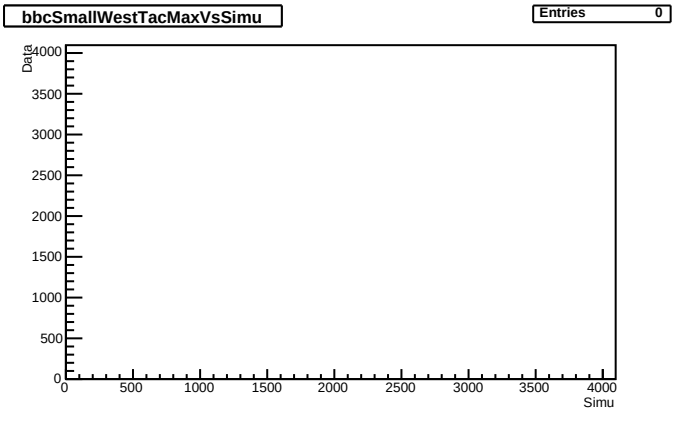
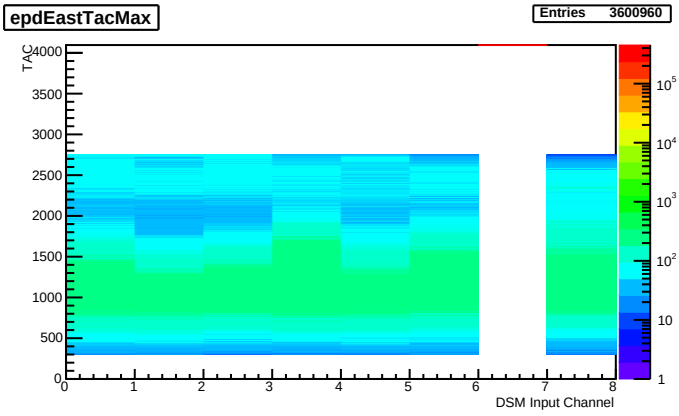
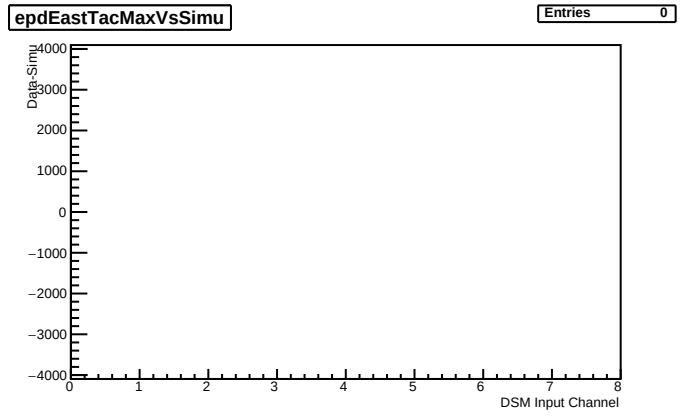
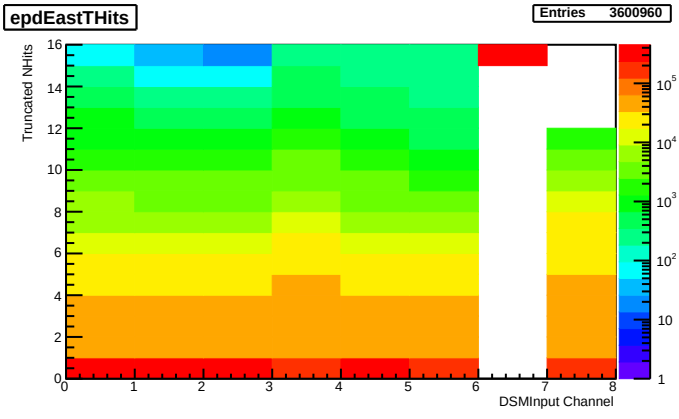
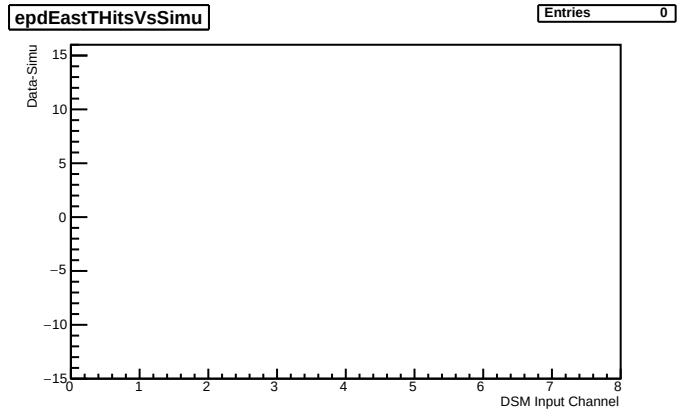
Entries 450120


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 3600960
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 3600960
Truncated NHits
DSMInput Channel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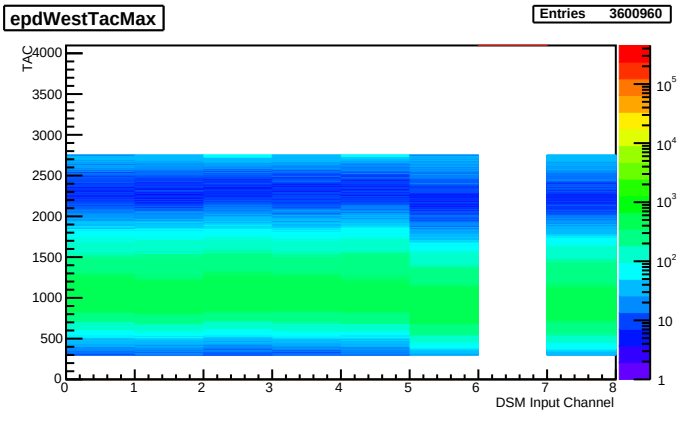
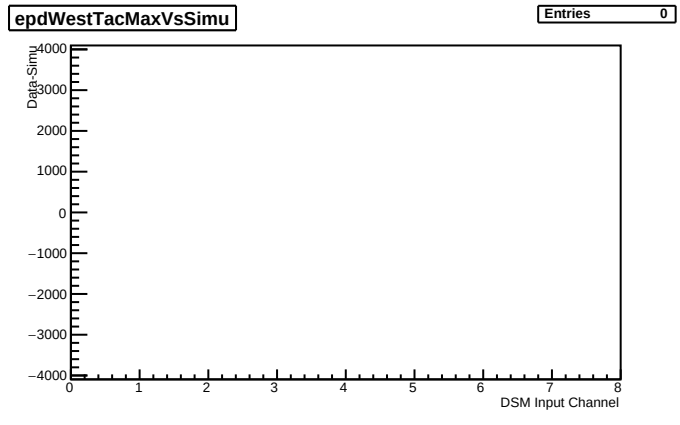
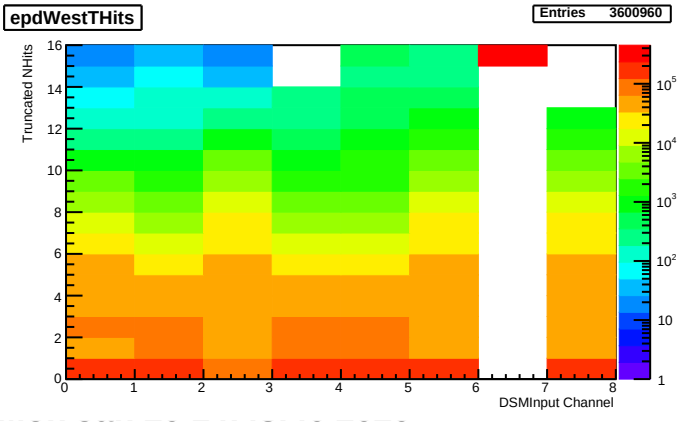
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 3600960
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel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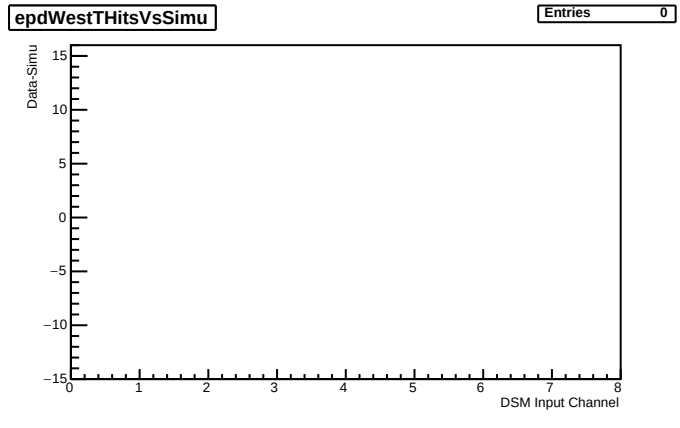
Entries 3600960
Truncated NHits
DSMInput Channel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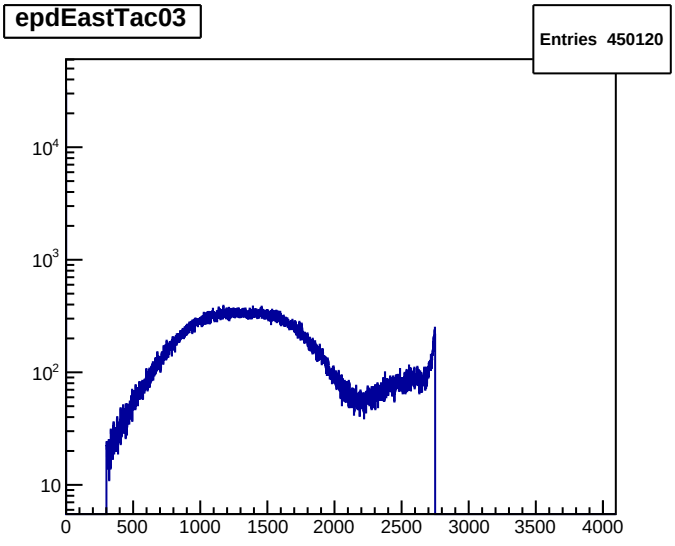
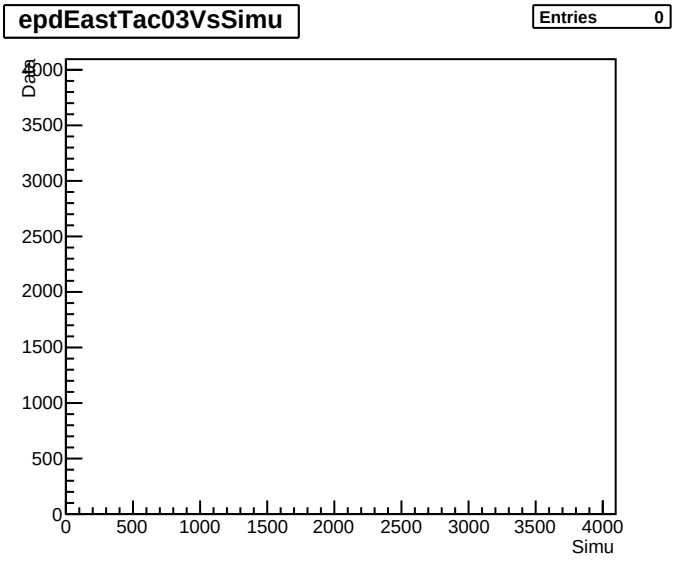
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 450120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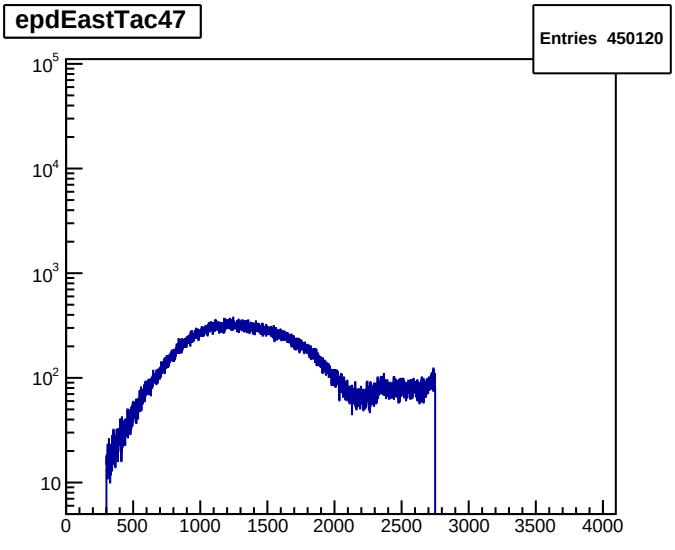
Entries 0
Data
Simu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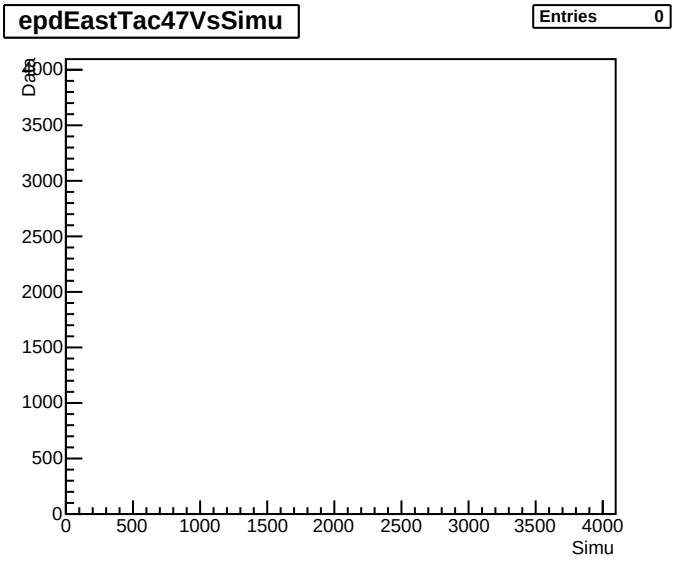
Entries 450120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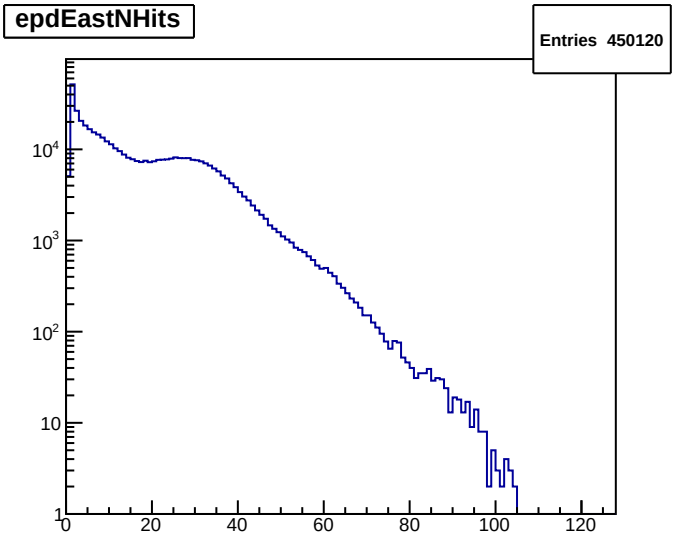
Entries 0
Data
Simu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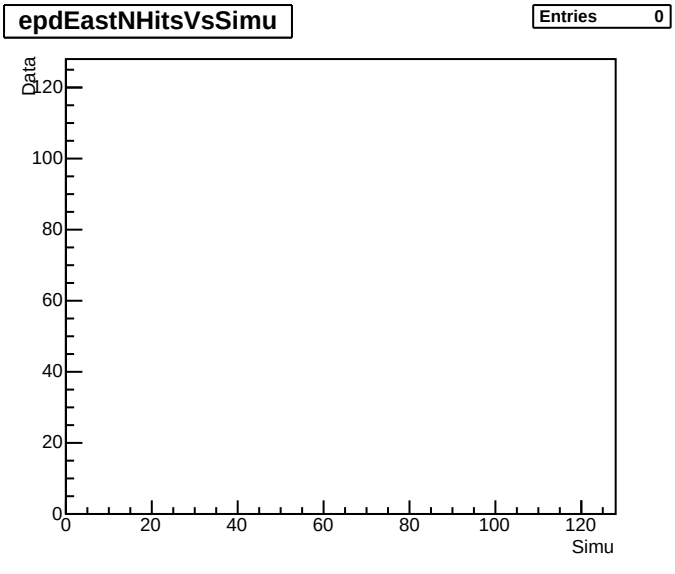
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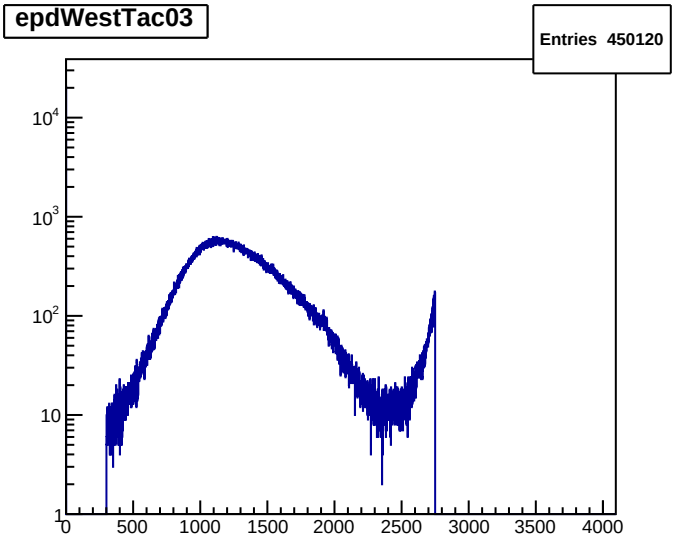
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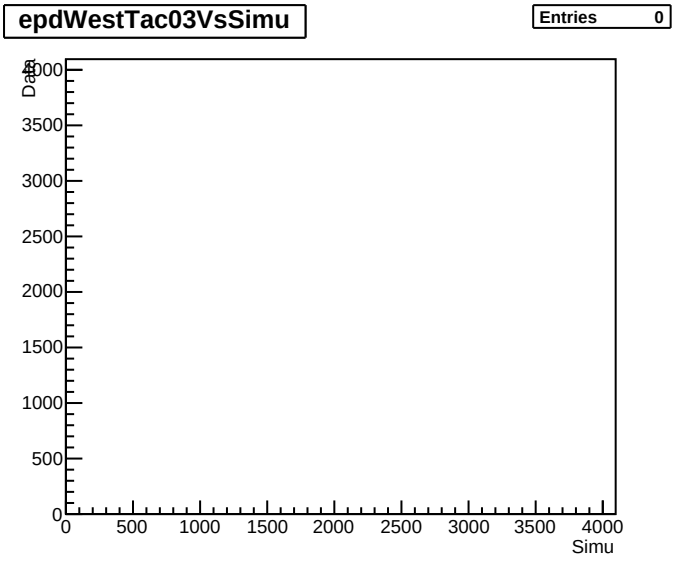
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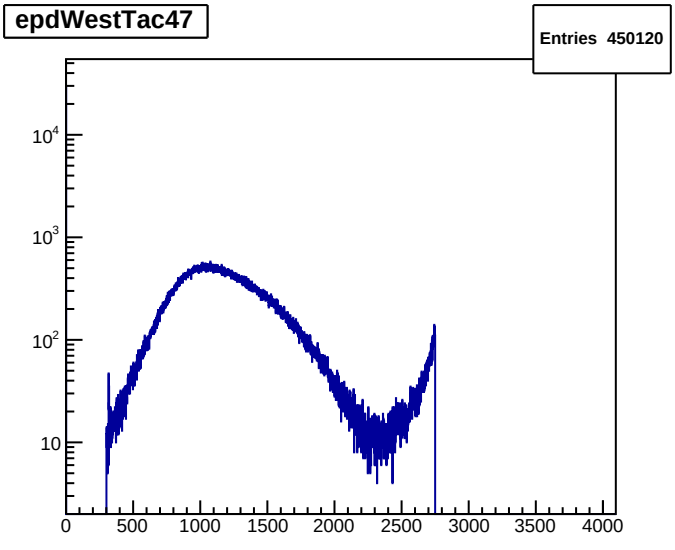
Data
Simu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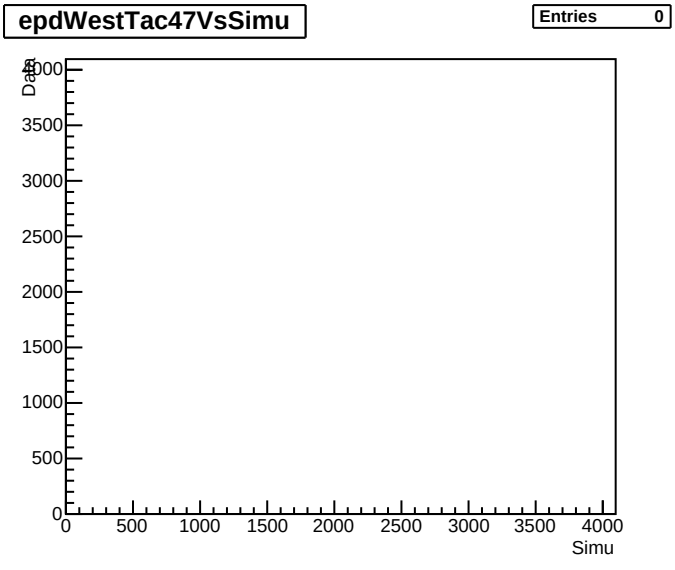
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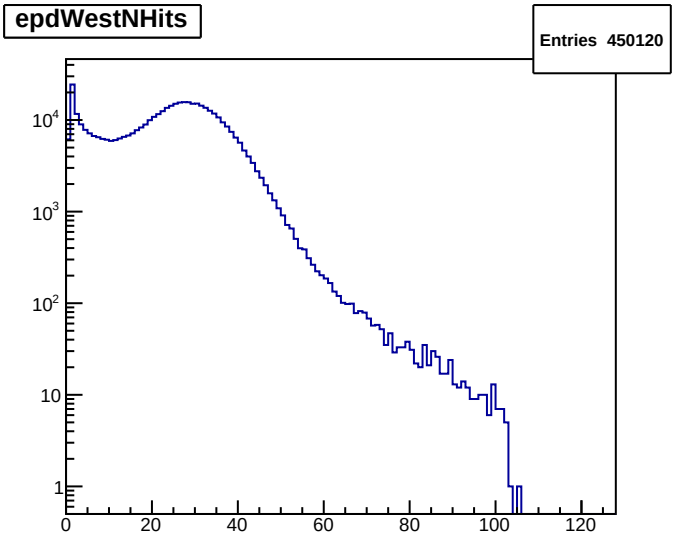
Data
Simu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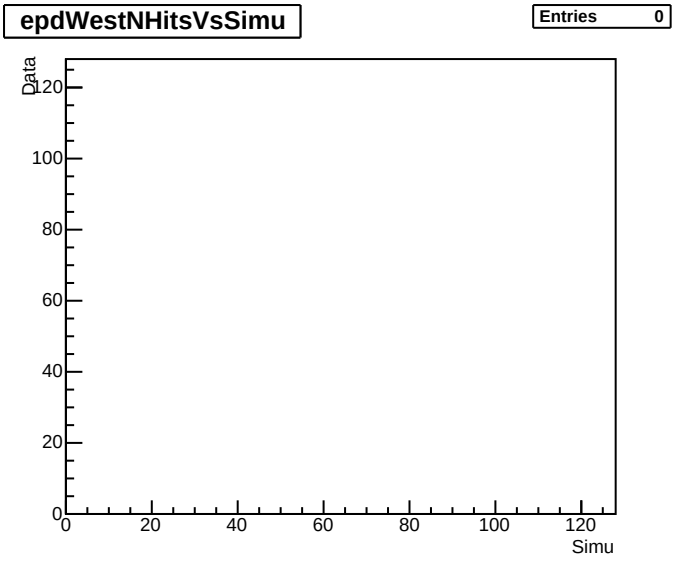
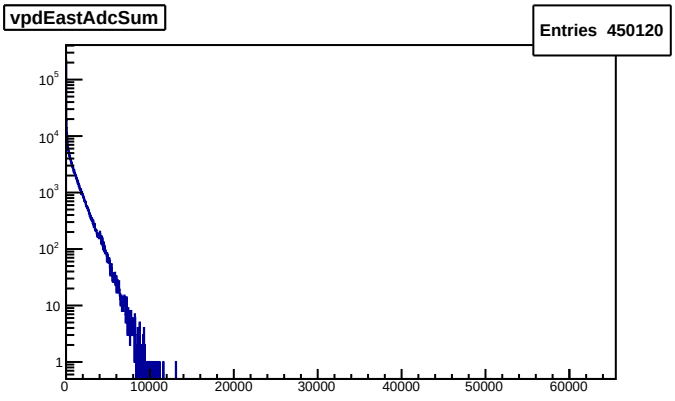
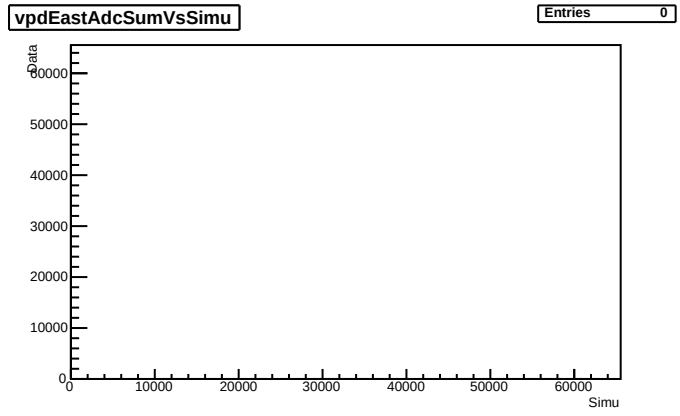
Entries 450120


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 450120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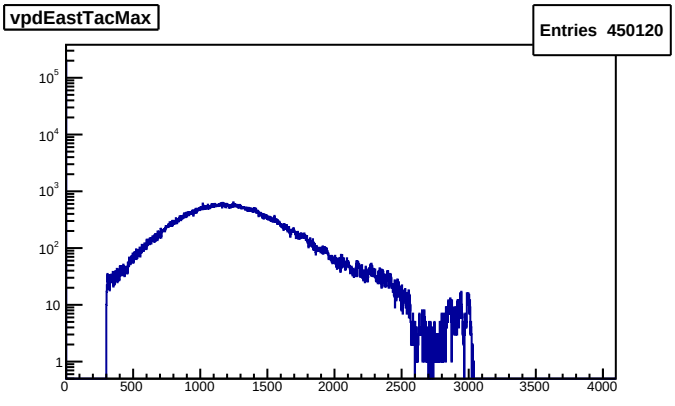
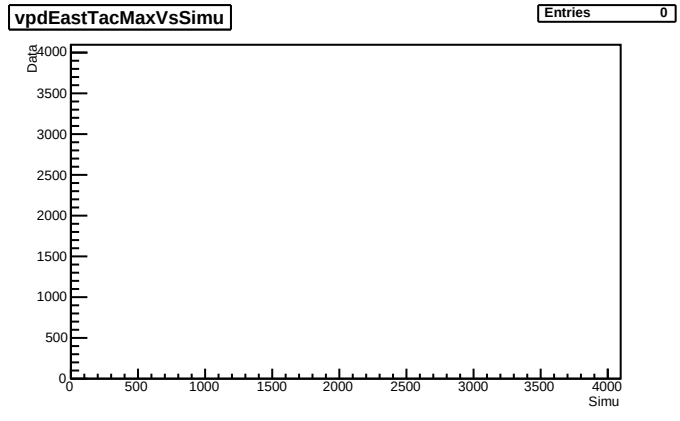
Entries 0
Data
Simu


vpdEastTacMax
Entries 450120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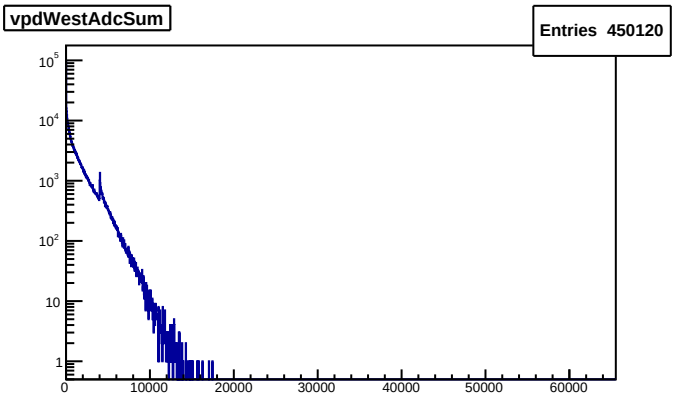
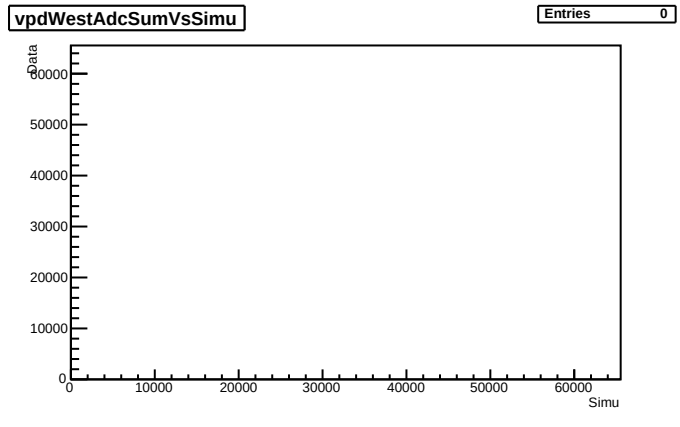
Entries 0
Data
Simu


vpdWestAdcSum
Entries 450120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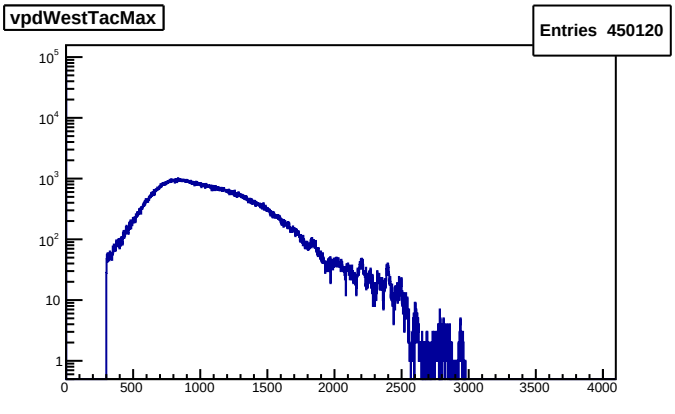
Entries 0
Data
Simu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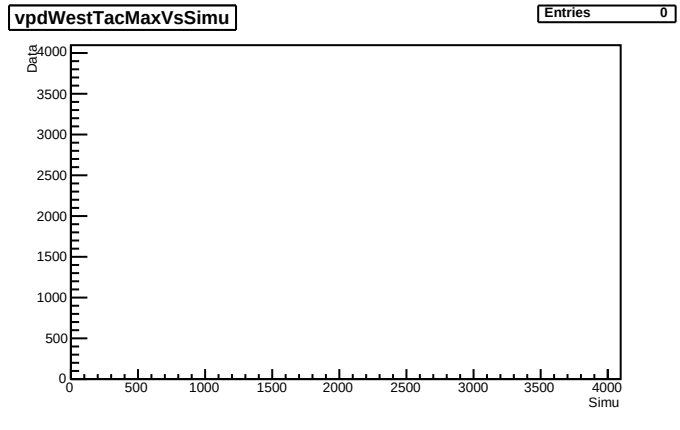
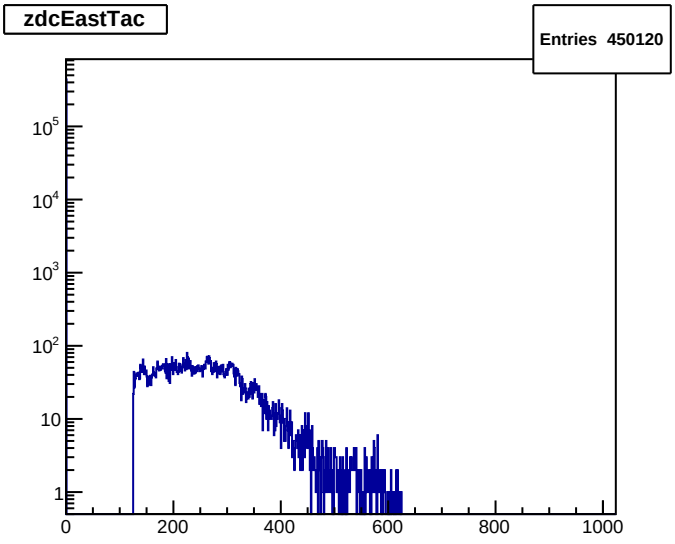
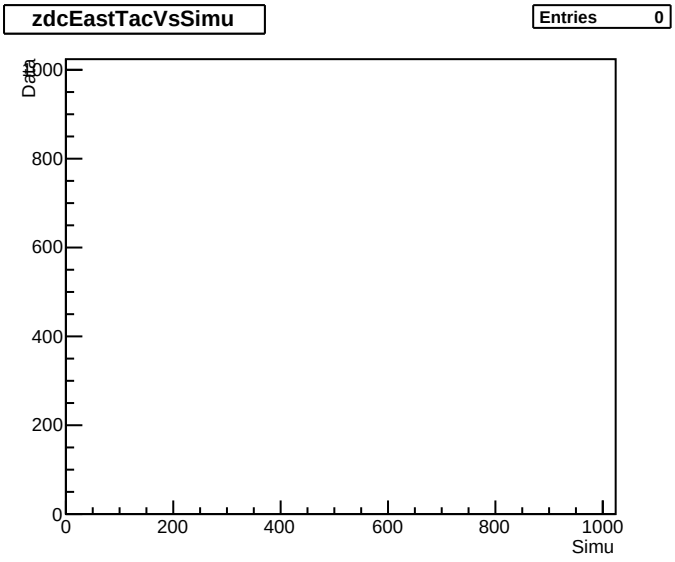
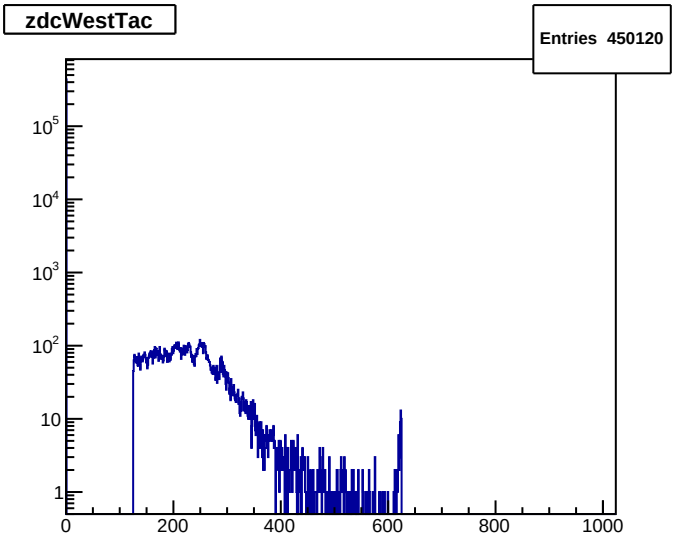
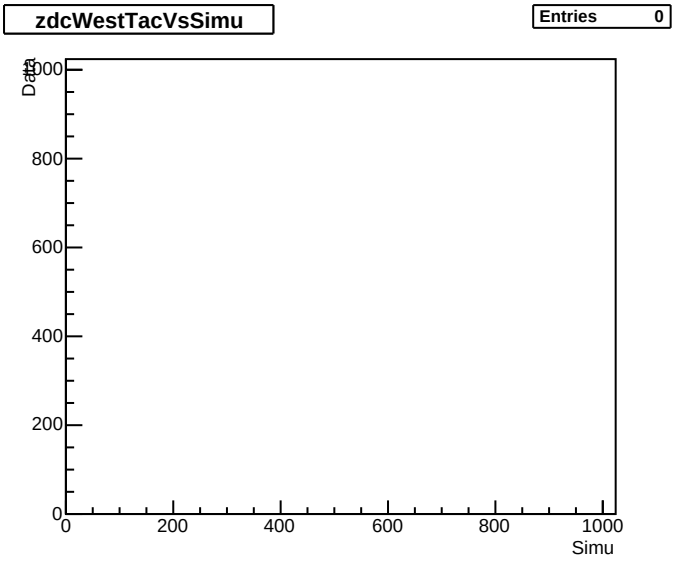
Entries 450120

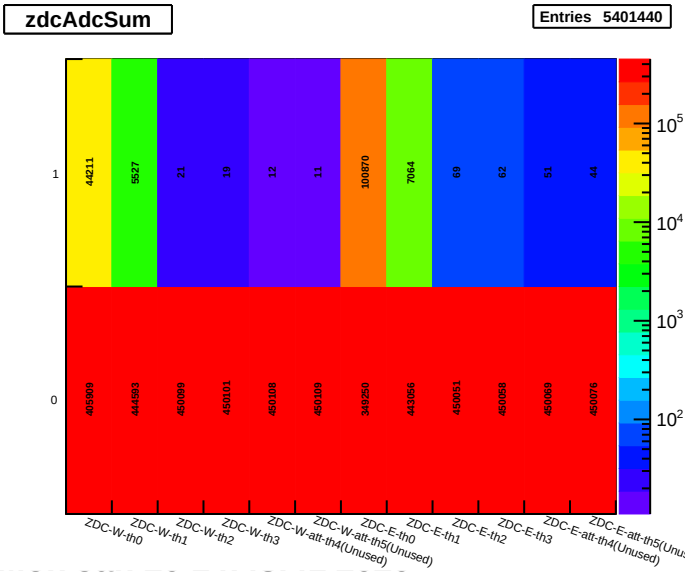

vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 450120


zdcEastTacVsSimu
Entries 0
Data
Simu


zdcWestTac
Entries 450120


zdcWestTacVsSimu
Entries 0
Data
Simu


zdcAdcSum
Entries 5401440
44211
5527
21
19
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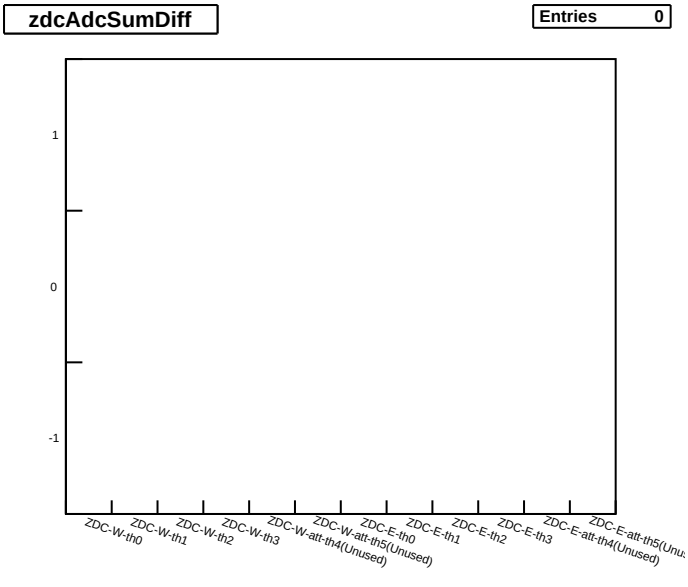
11
100870
7064
69
62
51
44
405909
444593
450099
450101
450108
450109
349250
443066
450051
450058
450069
450076
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)


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
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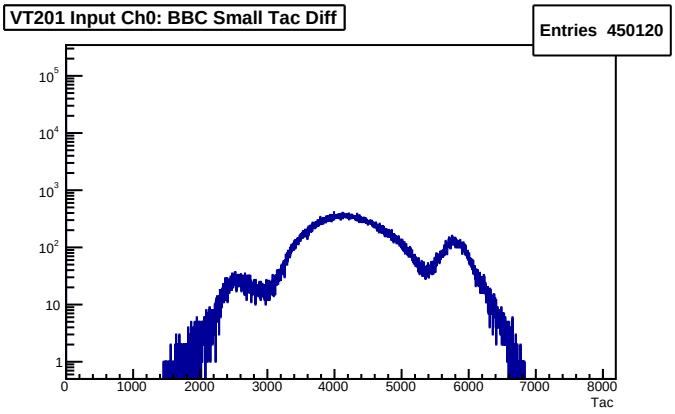
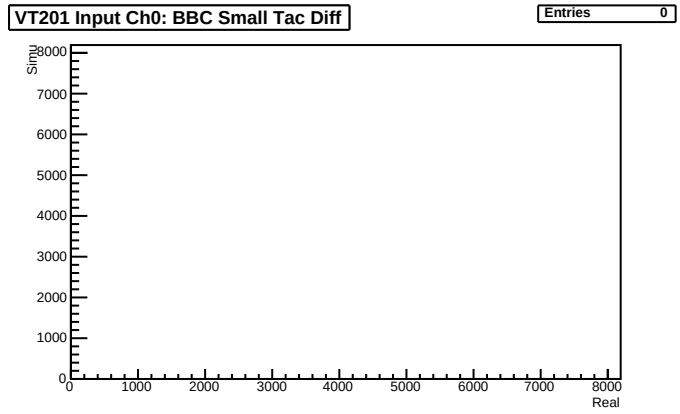
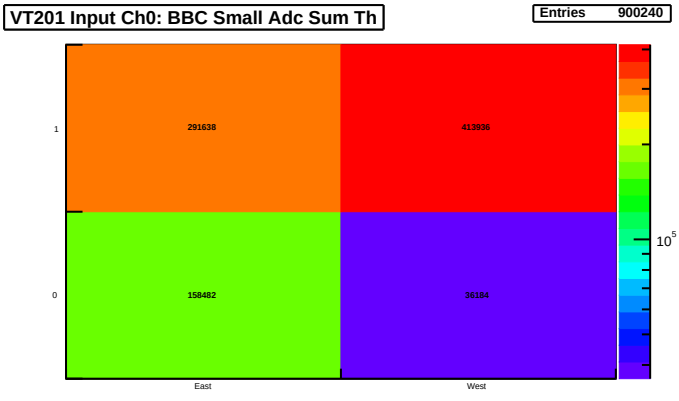
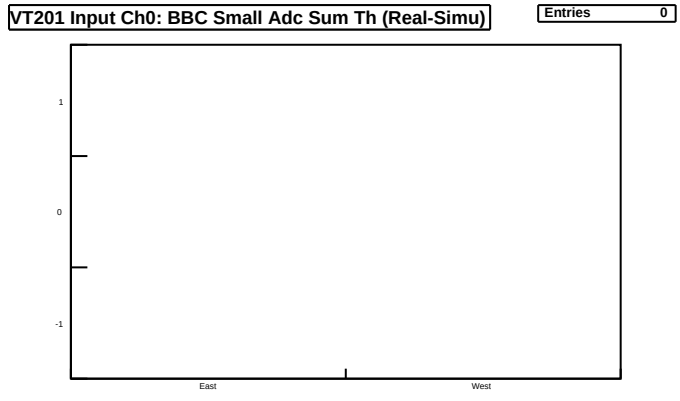
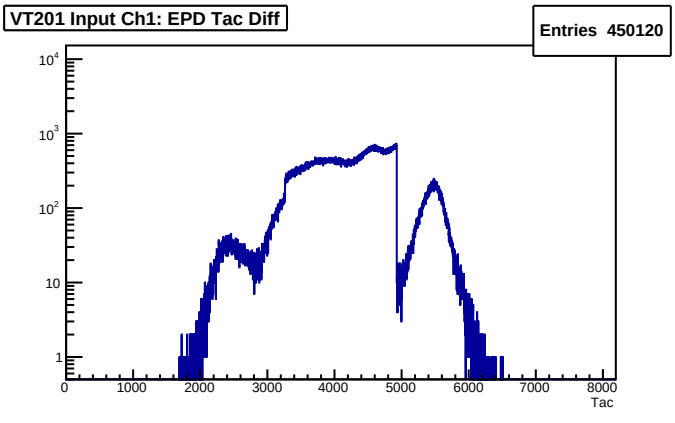
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

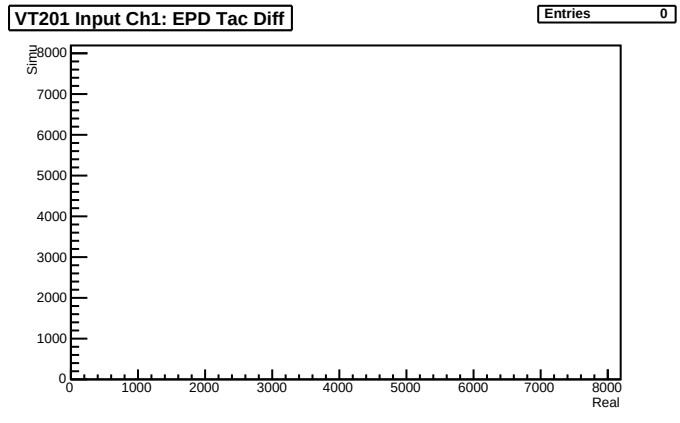

VT201 Input Ch0: BBC Small Tac Diff
Entries 450120
Tac

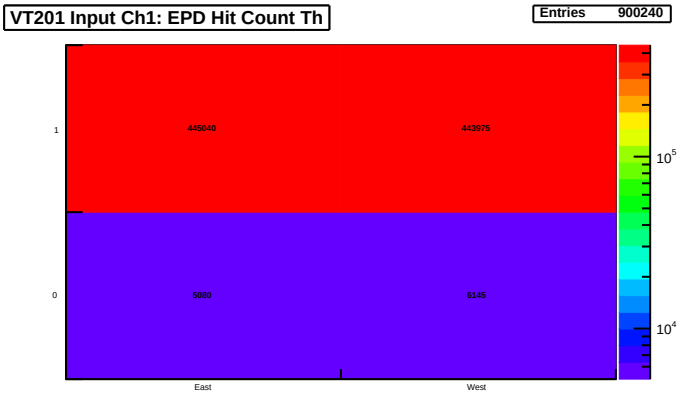

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

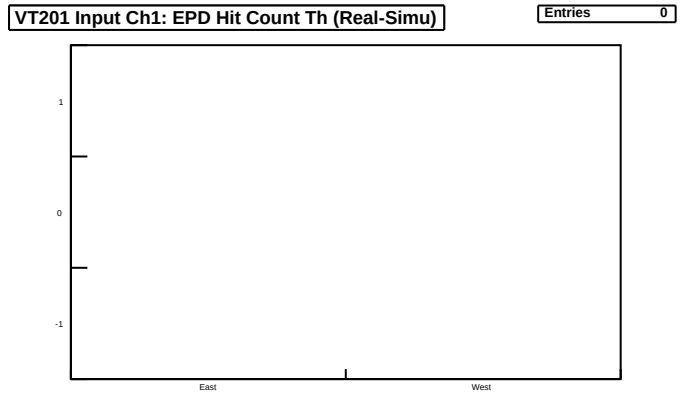

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 900240
291638
413936
158482
36184
East
West

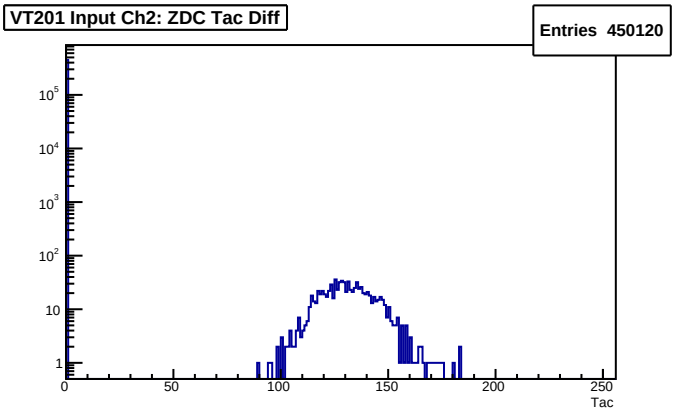

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

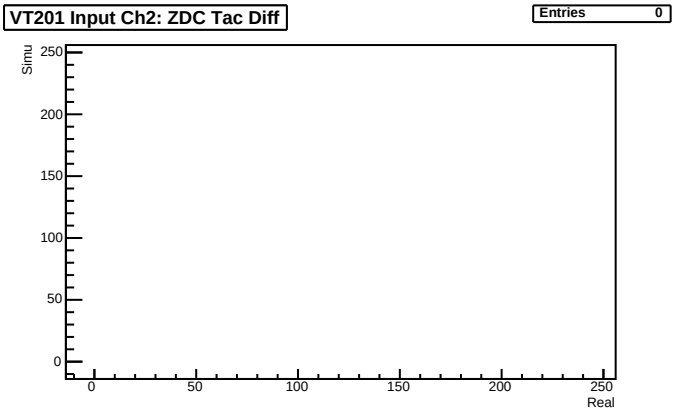

VT201 Input Ch1: EPD Tac Diff
Entries 450120
Tac

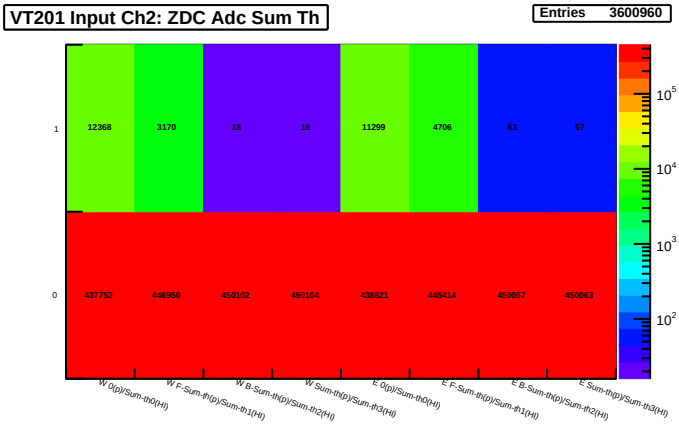

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

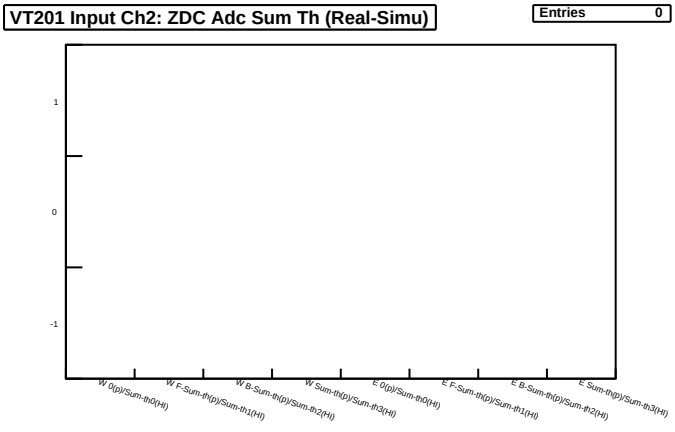

VT201 Input Ch1: EPD Hit Count Th
Entries 900240
445040
443975
5080
6145
East
West

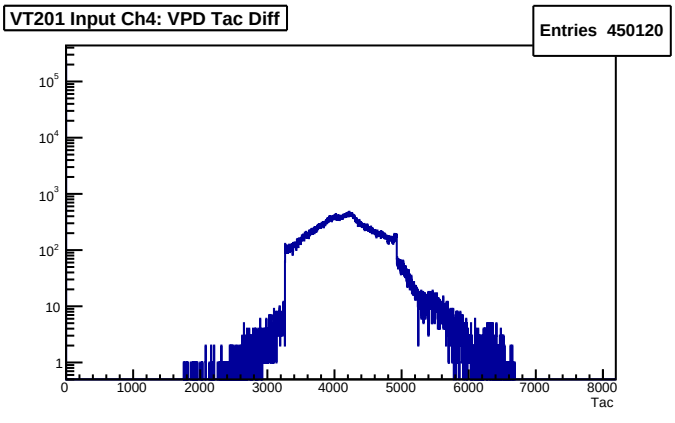

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

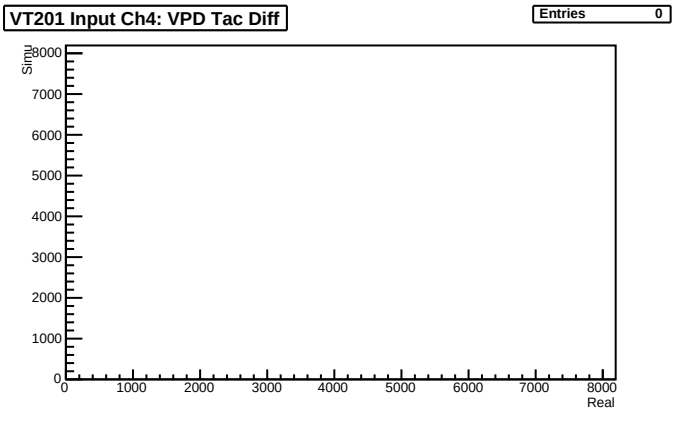

VT201 Input Ch2: ZDC Tac Diff
Entries 450120
Tac

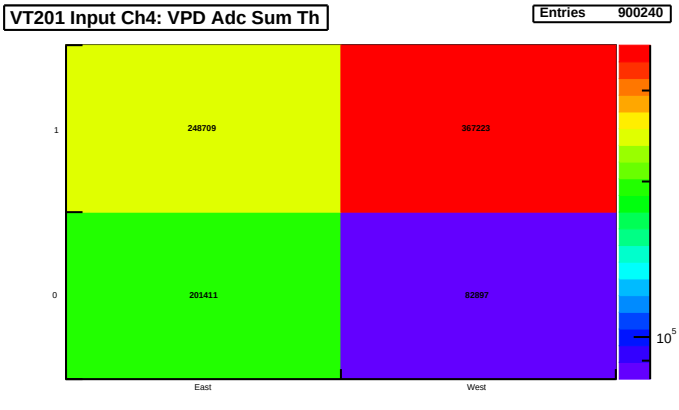

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

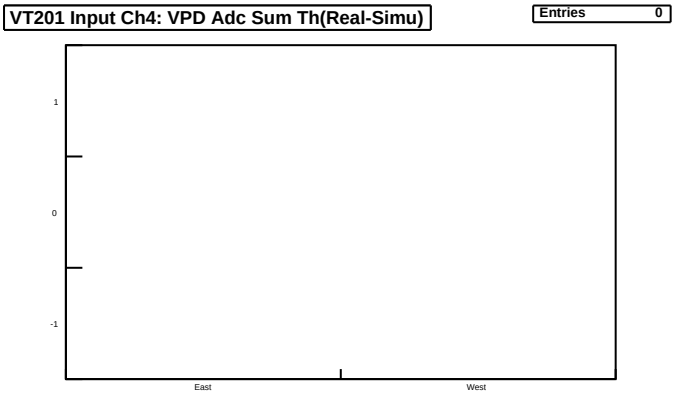

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3600960
12368
3170
18
16
11299
4706
63
57
437752
446950
450102
450104
438821
445414
450057
450063
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

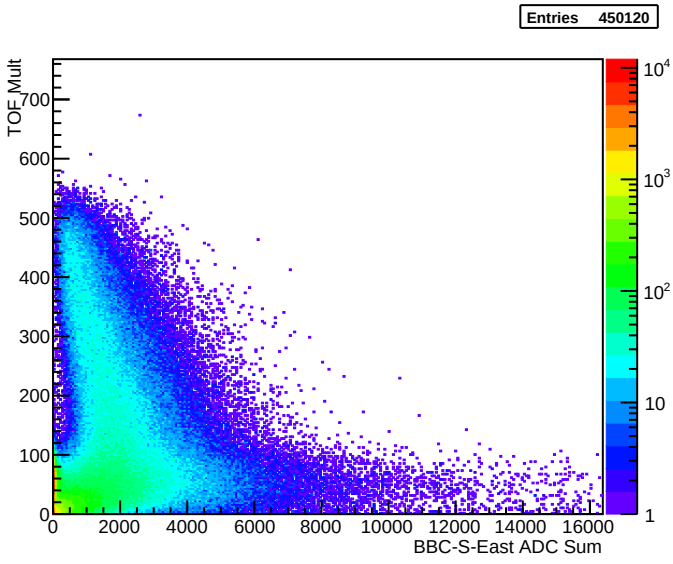

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

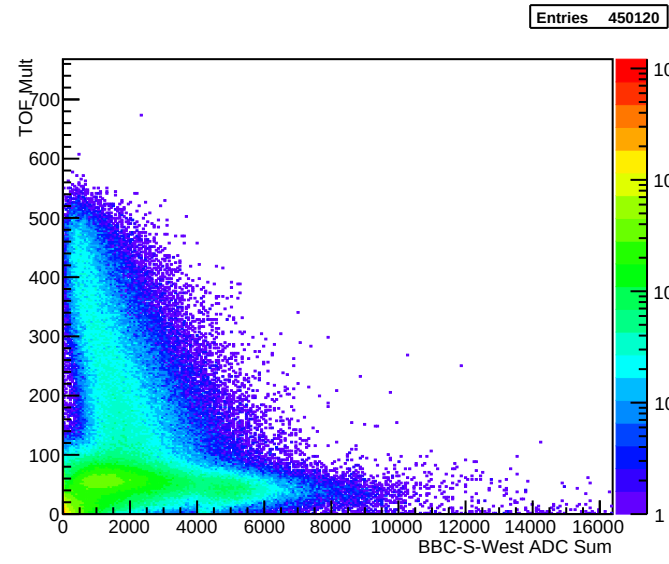

VT201 Input Ch4: VPD Tac Diff
Entries 450120
Tac

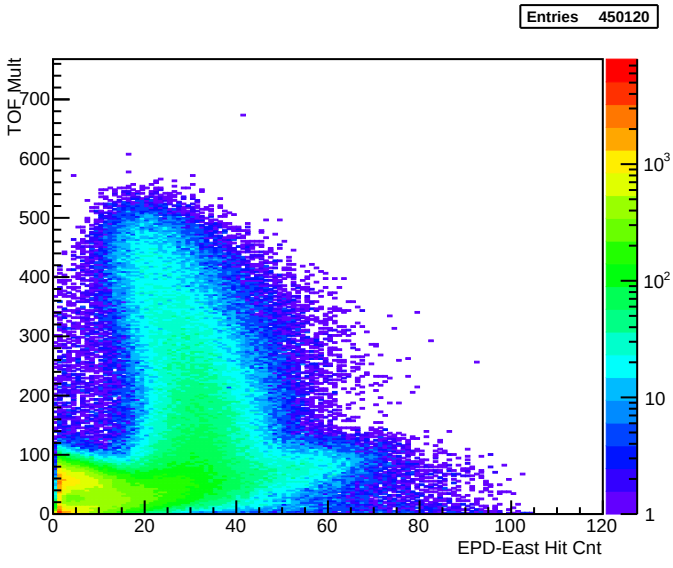

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

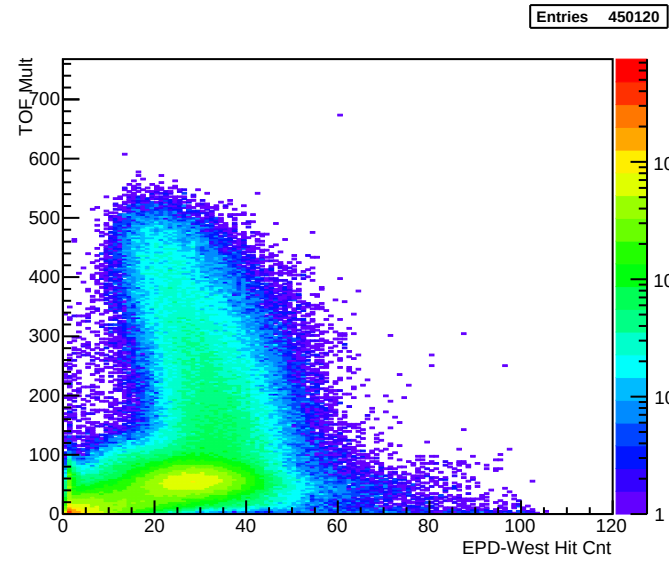

VT201 Input Ch4: VPD Adc Sum Th
Entries 900240
248709
367223
201411
82897
East
West

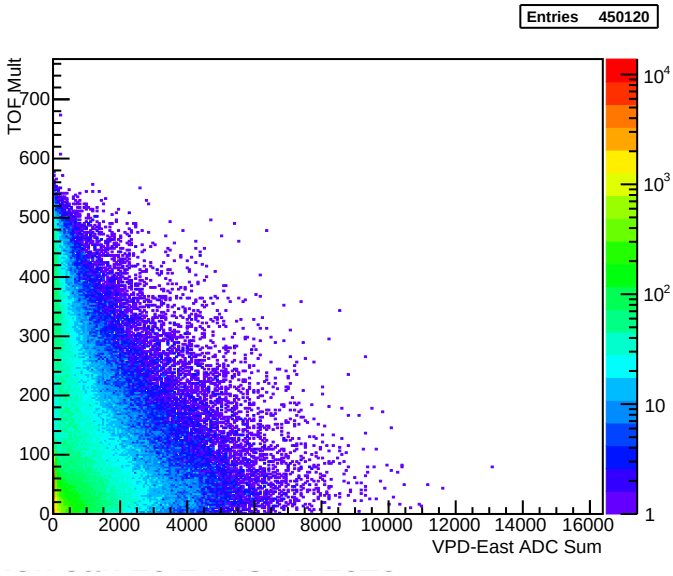

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

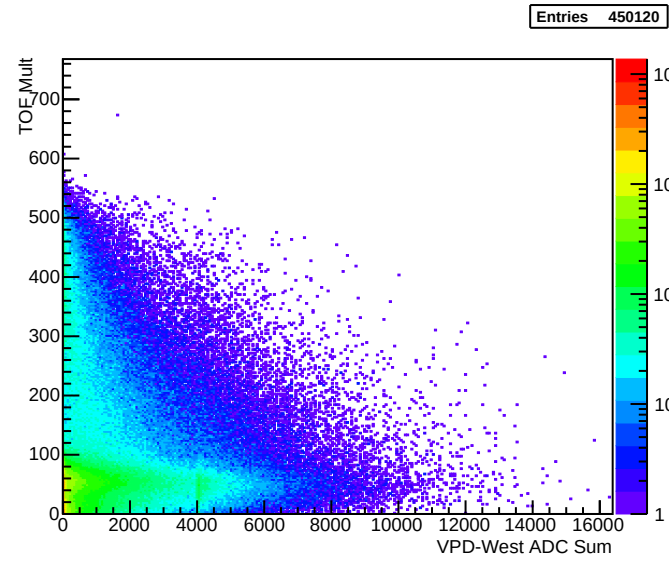

Entries 450120
TOF_Mult
BBC-S-East ADC Sum

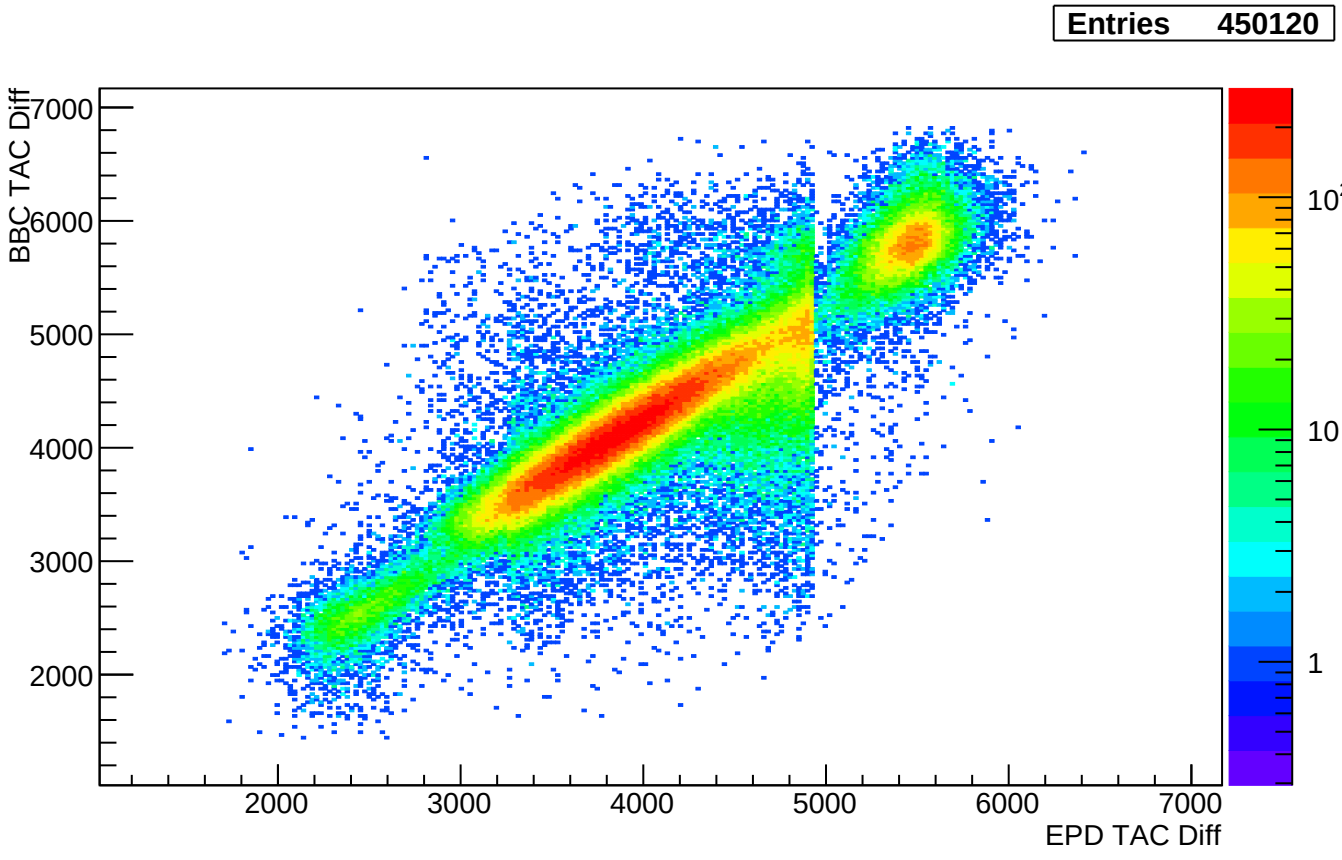

Entries 450120
TOF_Mult
BBC-S-West ADC Sum

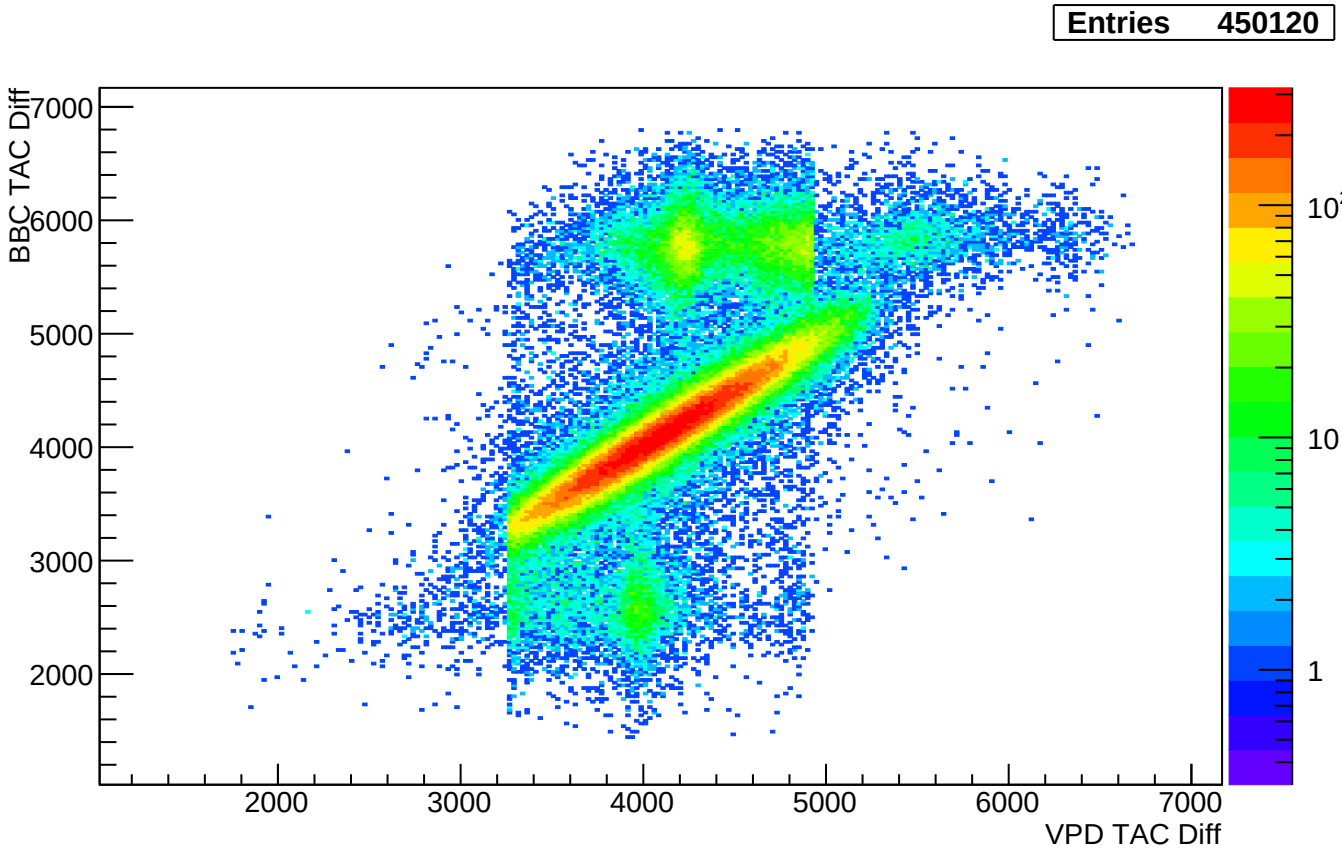

Entries 450120
TOF_Mult
EPD-East Hit Cnt

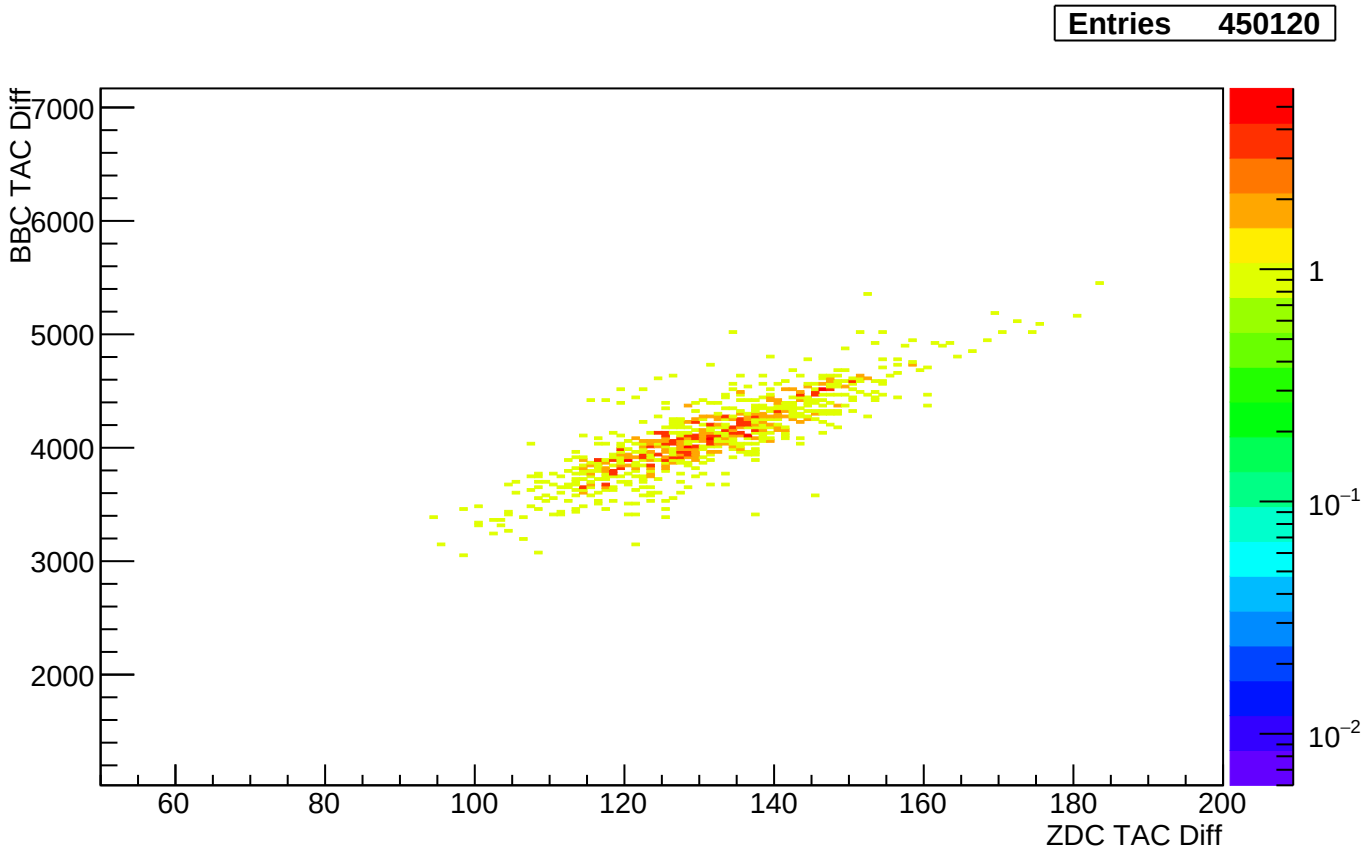

Entries 450120
TOF_Mult
EPD-West Hit Cnt

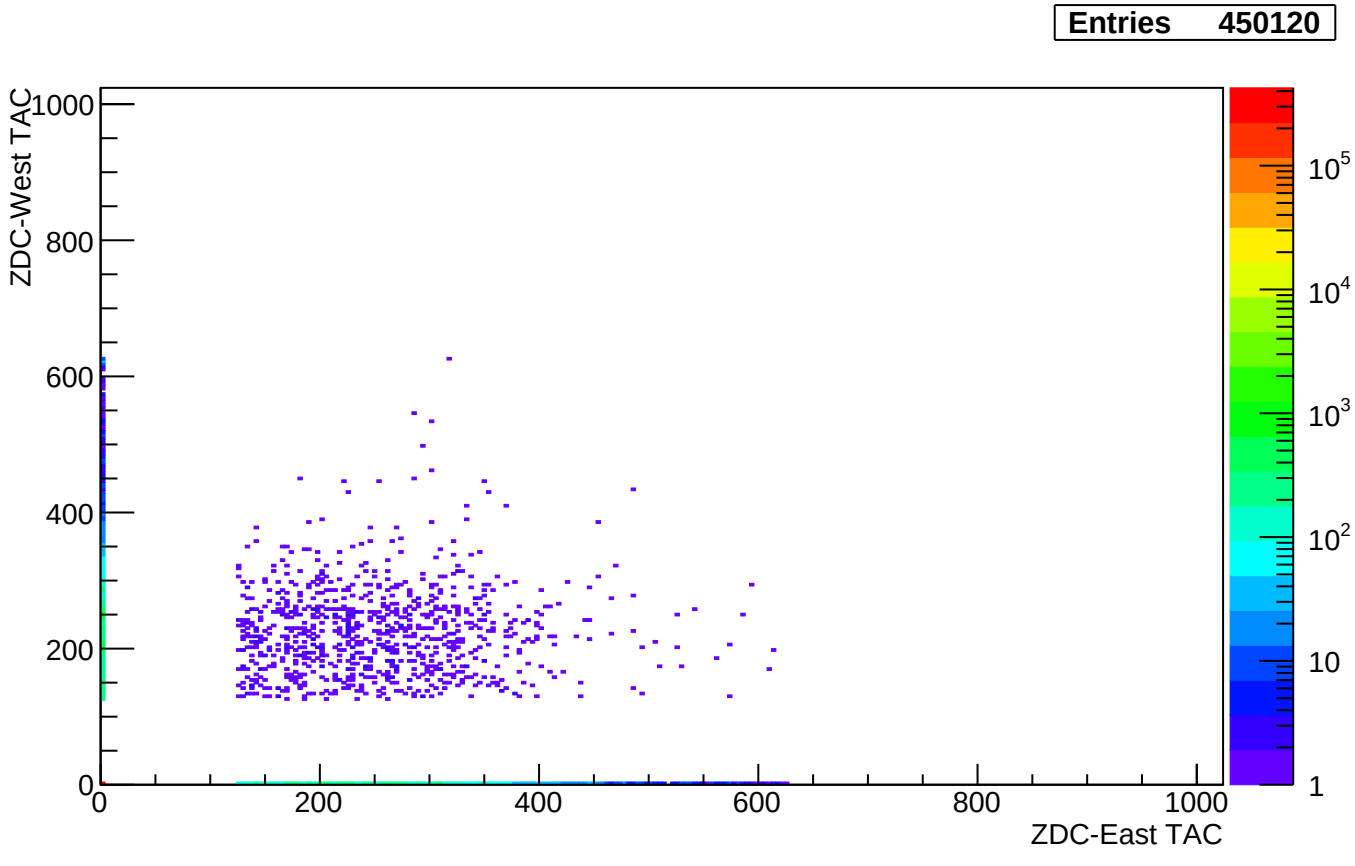

Entries 450120
TOF_Mult
VPD-East ADC Sum

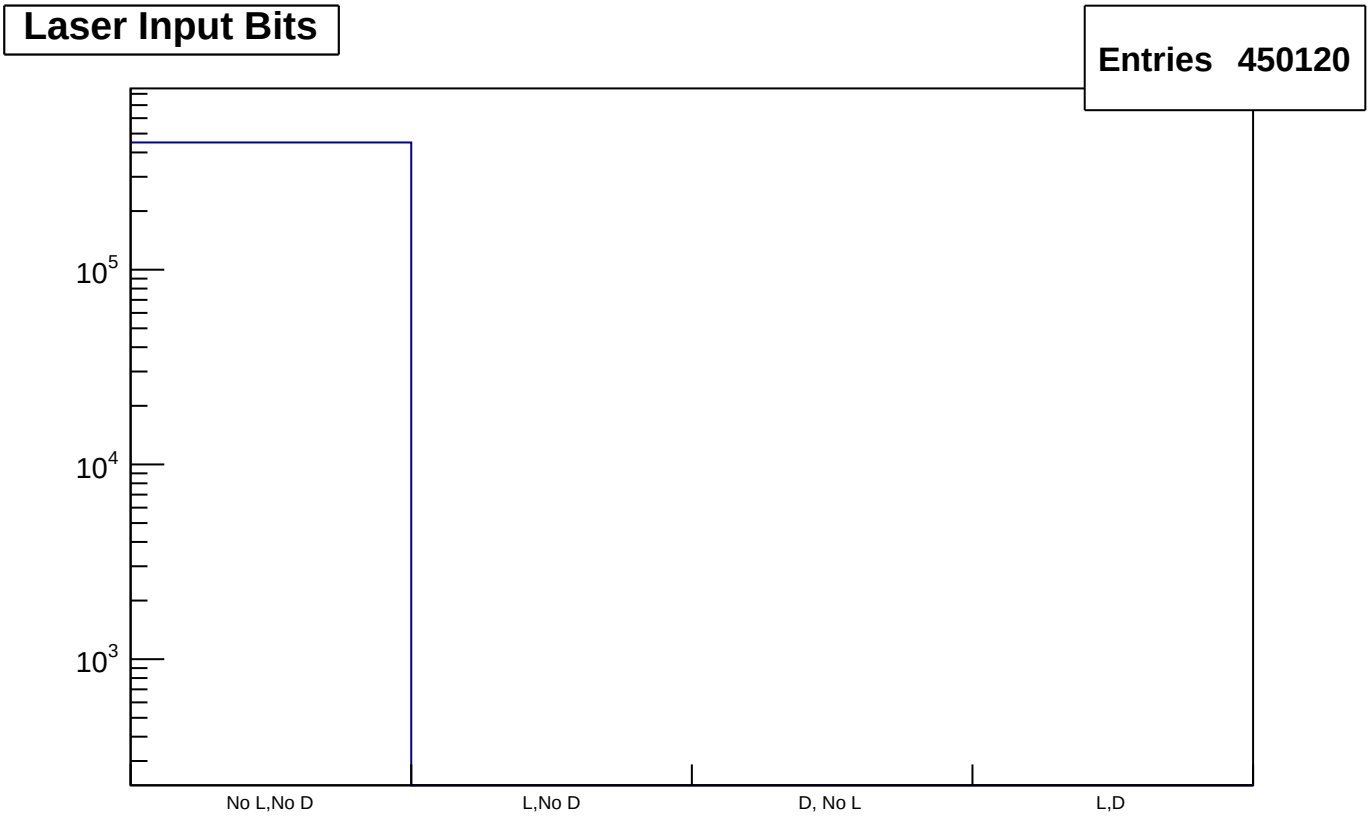

Entries 450120
TOF_Mult
VPD-West ADC Sum

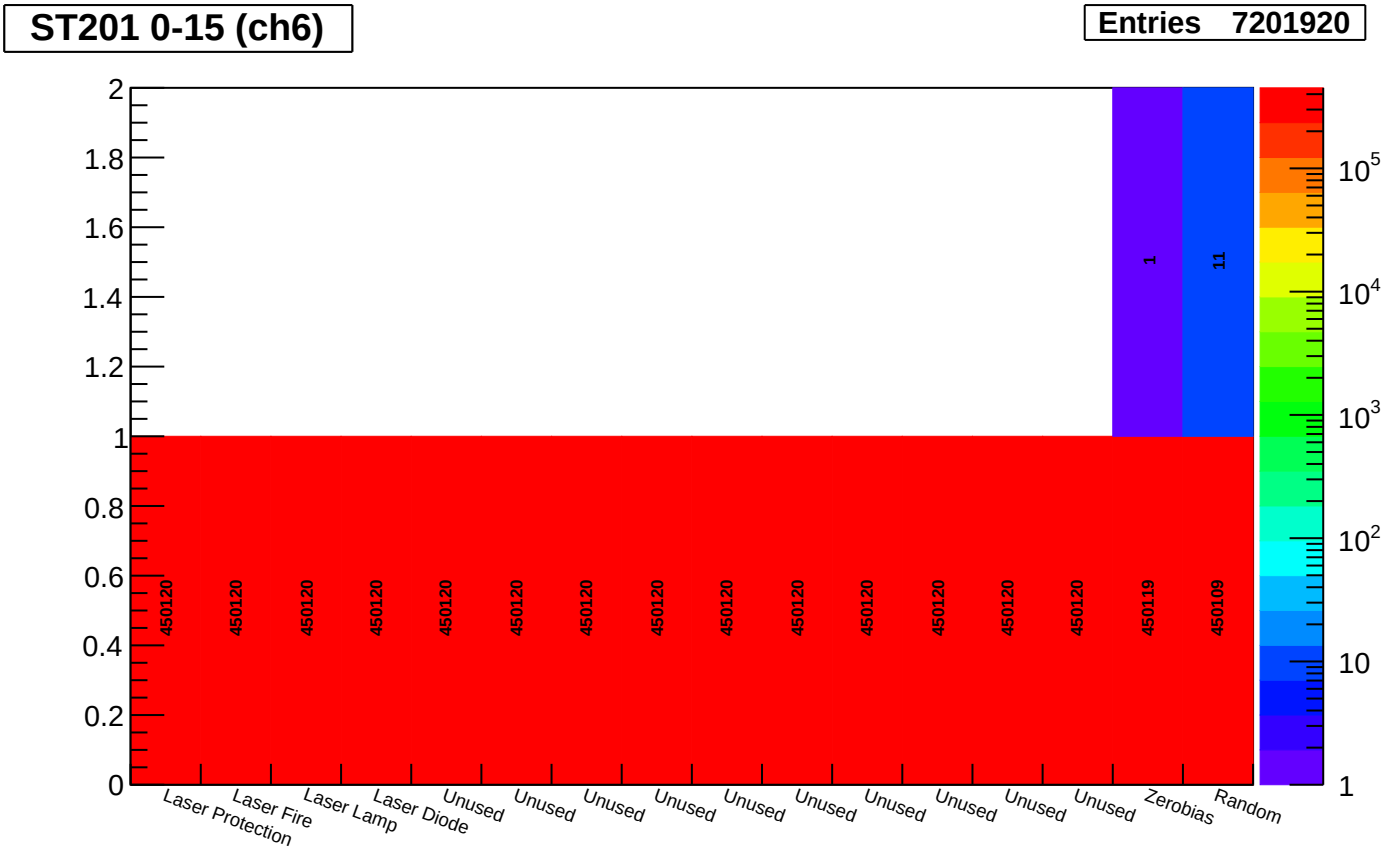

Entries 450120
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

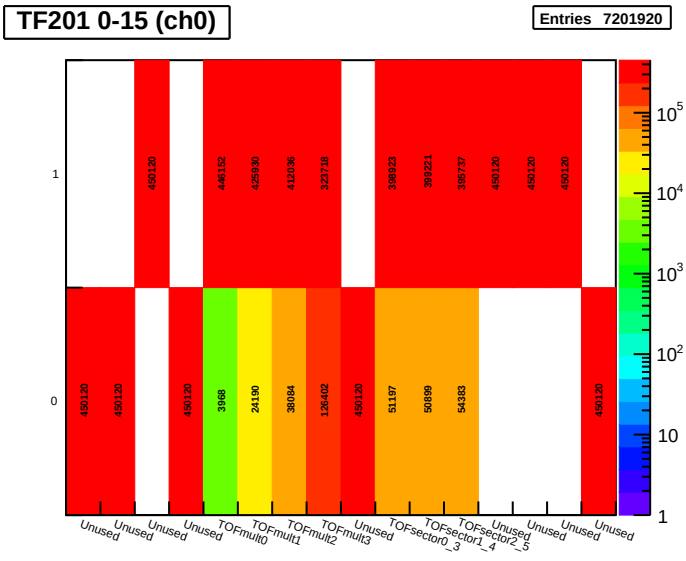

Entries 450120
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

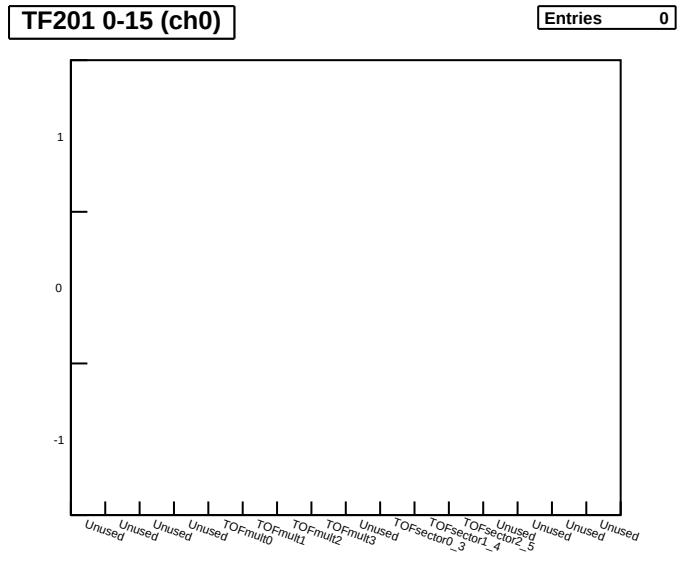

Entries 450120
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

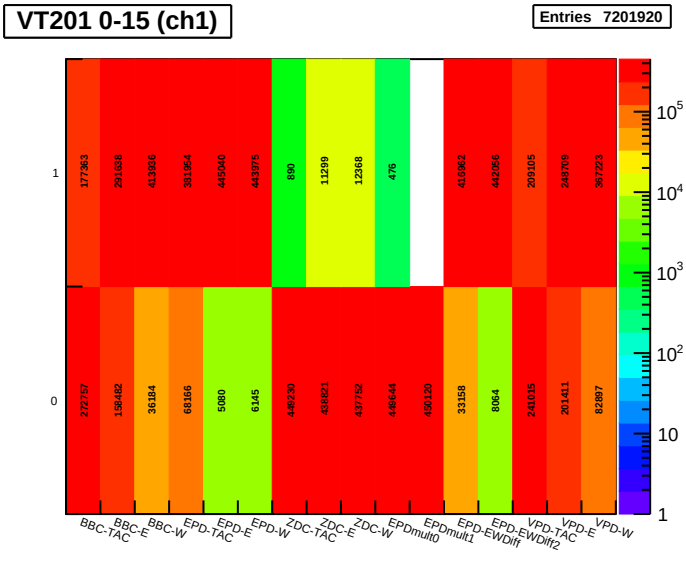

Entries 450120
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

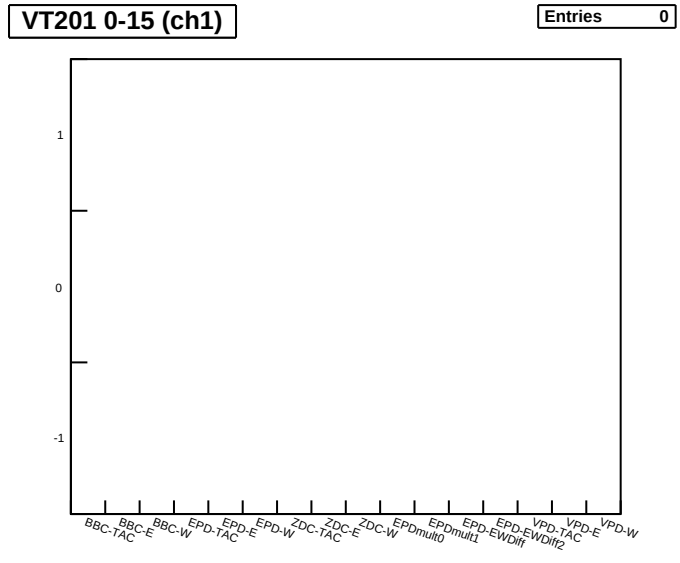

Laser Input Bits
Entries 450120
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

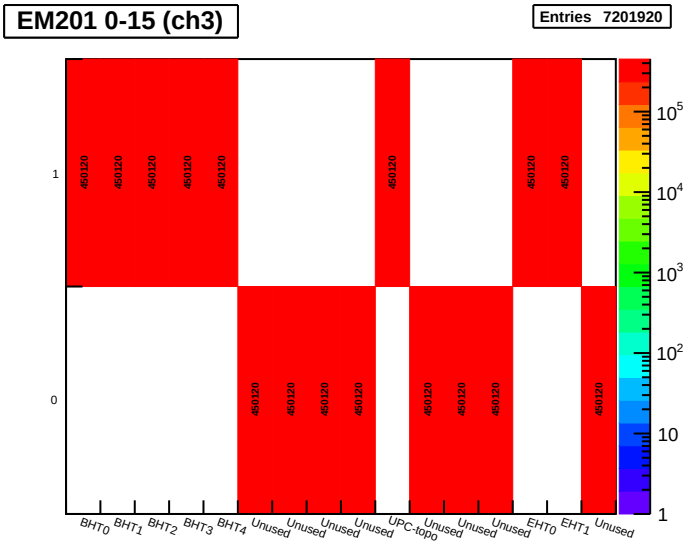

ST201 0-15 (ch6)
Entries 7201920
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450119
450109
1
11
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

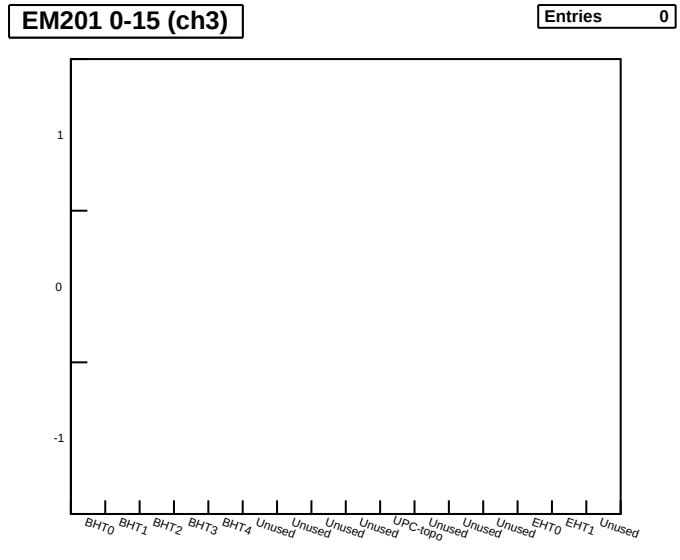

TF201 0-15 (ch0)
Entries 7201920
1
0
450120
446152
425930
412036
323718
398923
399221
395737
450120
450120
450120
450120
450120
450120
3968
24190
38084
126402
450120
51197
50899
54383
450120
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
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 7201920
1
0
177353
291638
413936
381954
445040
443975
890
11299
12368
476
416952
442056
209105
248709
367223
272757
158482
36184
68166
5080
6145
449230
438821
437752
449644
450120
33158
8064
241015
201411
82897
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 7201920
1
0
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
450120
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