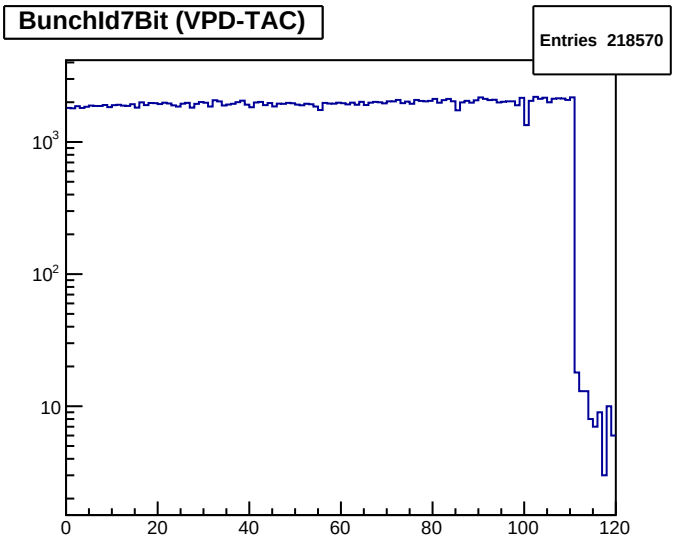
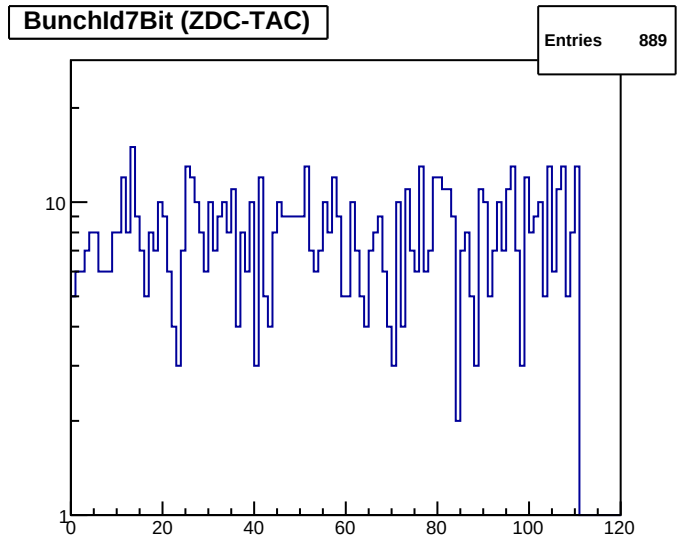
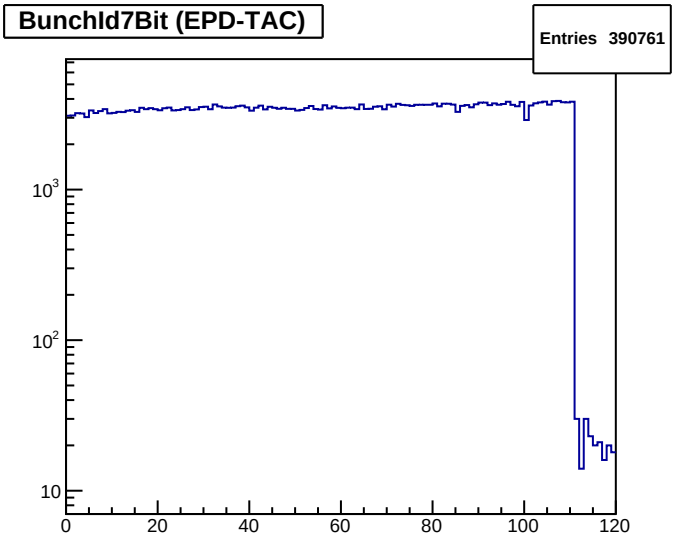
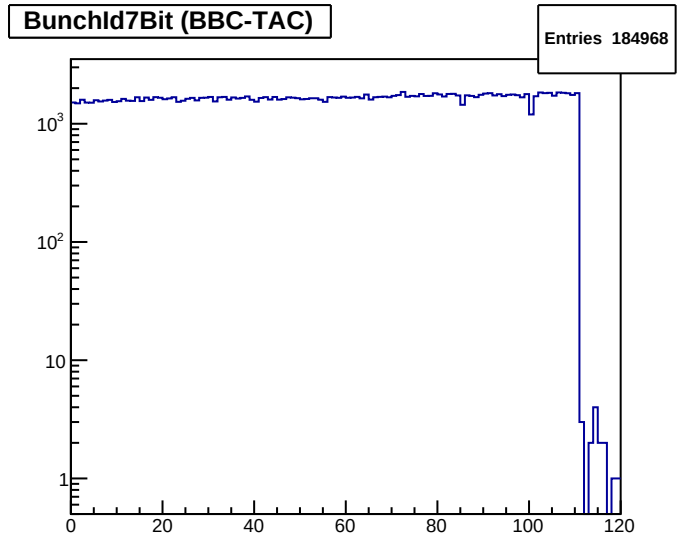
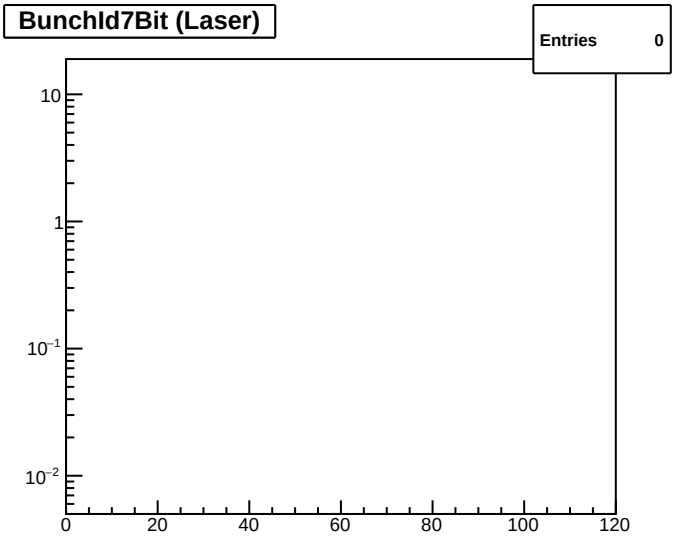
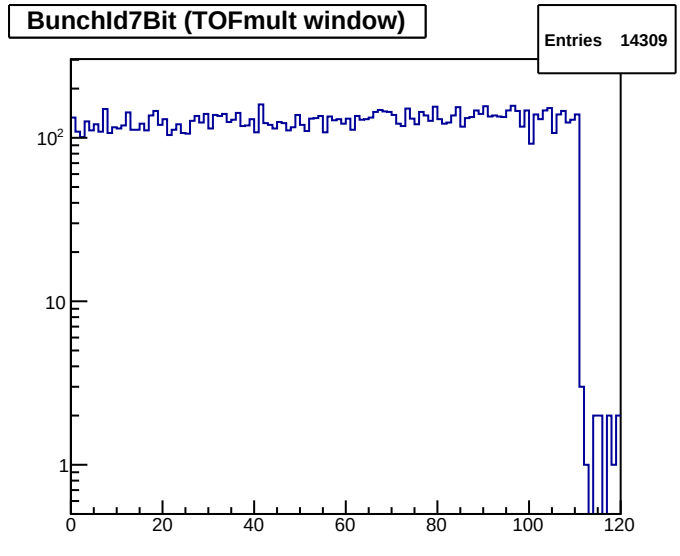

BunchId7Bit (VPD-TAC)
Entries 218570
$10^3$
$10^2$
10
0
20
40
60
80
100
120

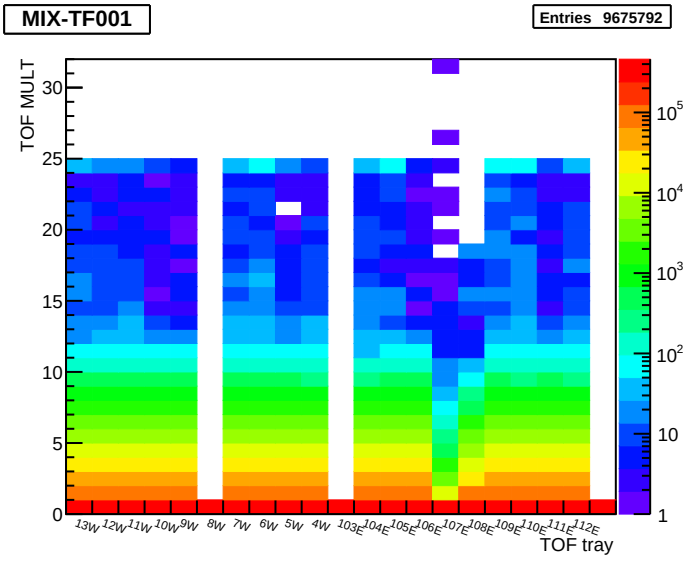

BunchId7Bit (ZDC-TAC)
Entries 889
10
1
0
20
40
60
80
100
120

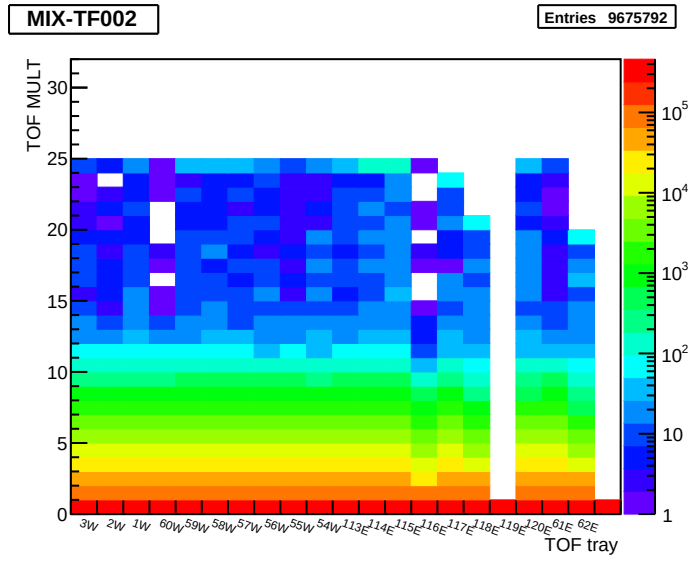

BunchId7Bit (EPD-TAC)
Entries 390761
$10^3$
$10^2$
10
0
20
40
60
80
100
120

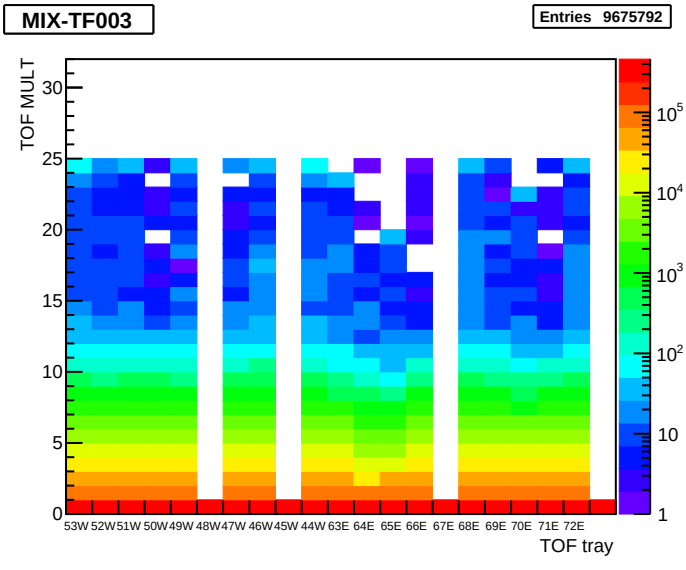

BunchId7Bit (BBC-TAC)
Entries 184968
$10^3$
$10^2$
10
1
0
20
40
60
80
100
120

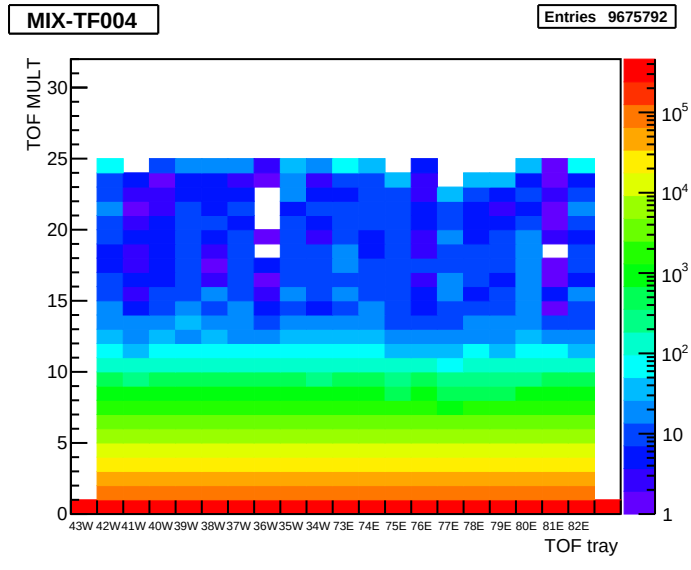

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

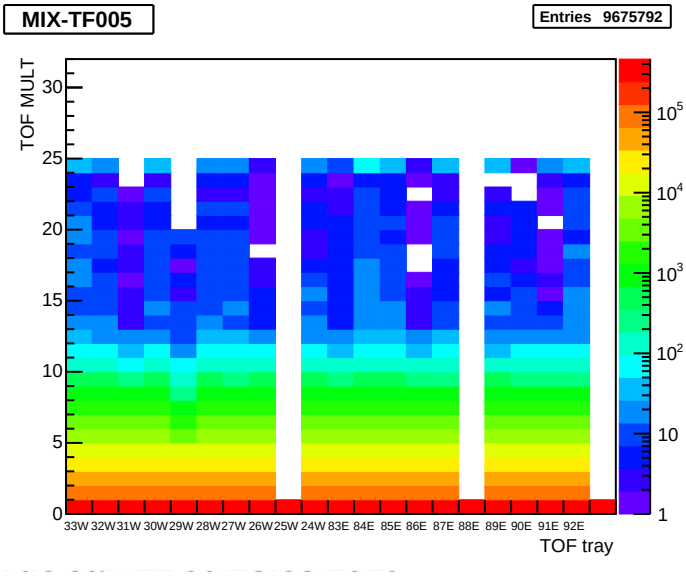

BunchId7Bit (TOFmult window)
Entries 14309
$10^2$
10
1
0
20
40
60
80
100
120

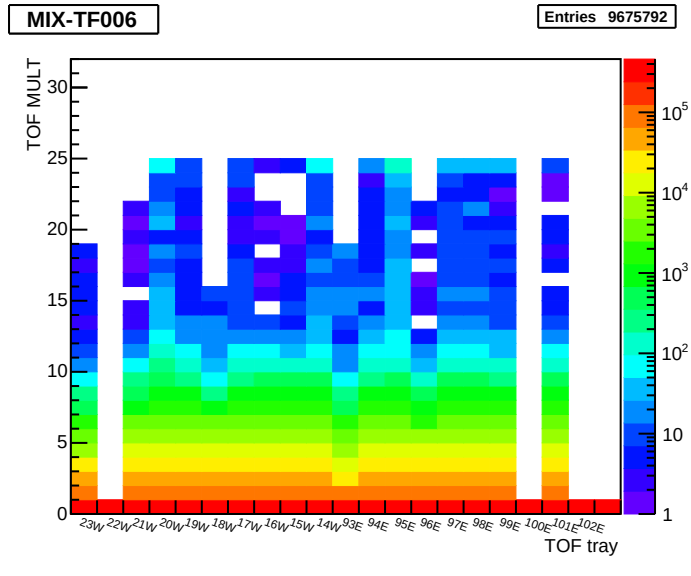

MIX-TF001
Entries 9675792
TOF MULT
TOF tray

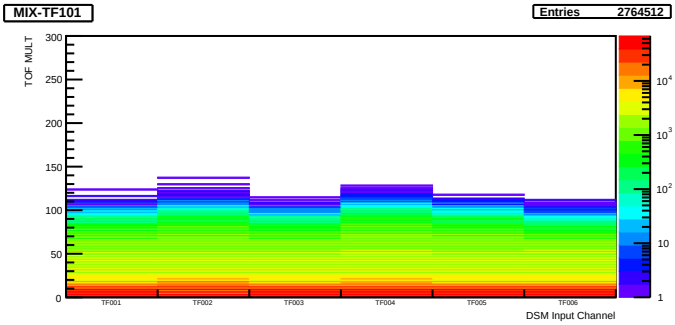

MIX-TF002
Entries 9675792
TOF MULT
TOF tray

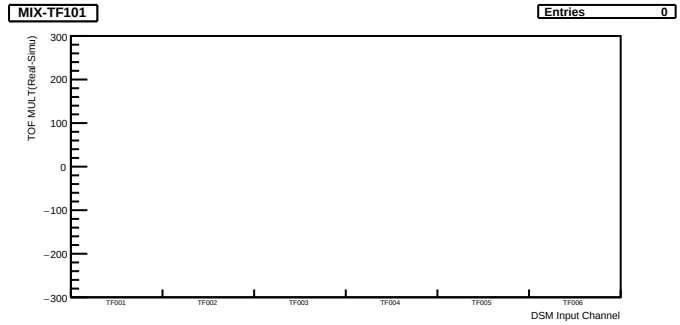

MIX-TF003
Entries 9675792
TOF MULT
TOF tray

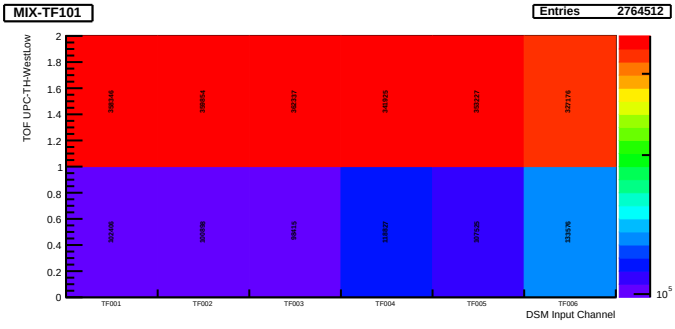

MIX-TF004
Entries 9675792
TOF MULT
TOF tray

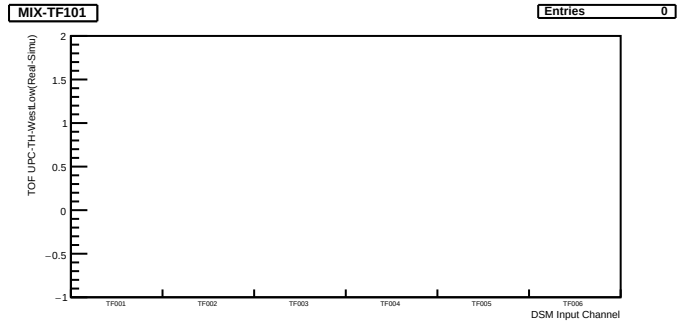

MIX-TF005
Entries 9675792
TOF MULT
TOF tray

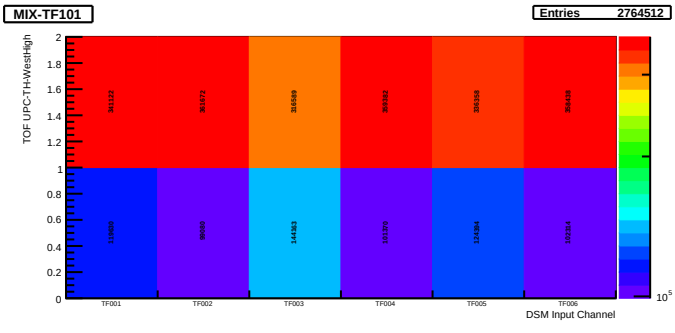

MIX-TF006
Entries 9675792
TOF MULT
TOF tray

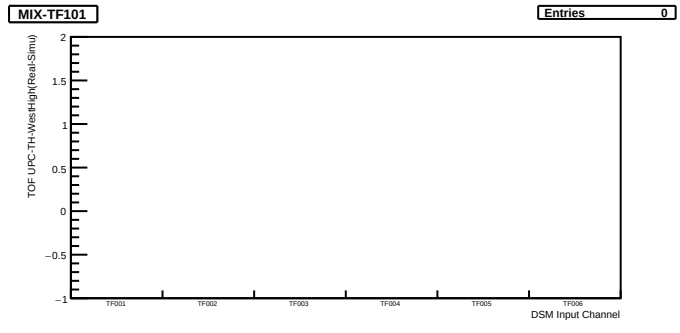

MIX-TF101
Entries 2764512
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

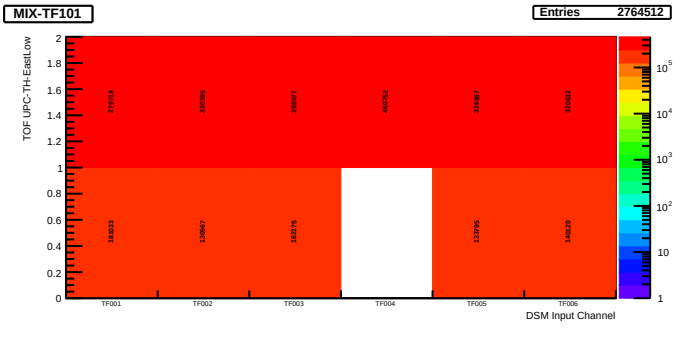

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

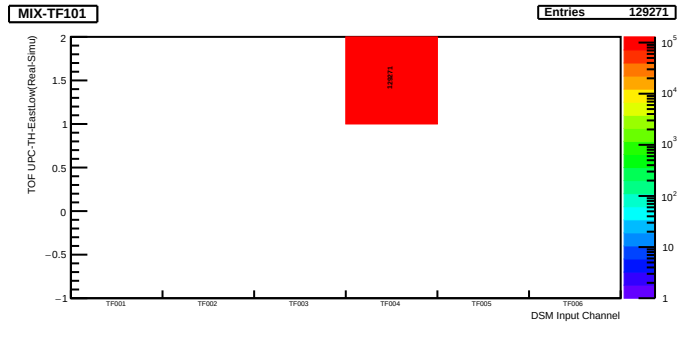

MIX-TF101
Entries 2764512
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

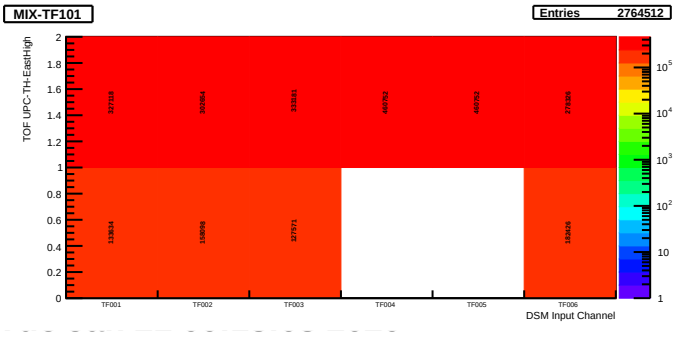

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

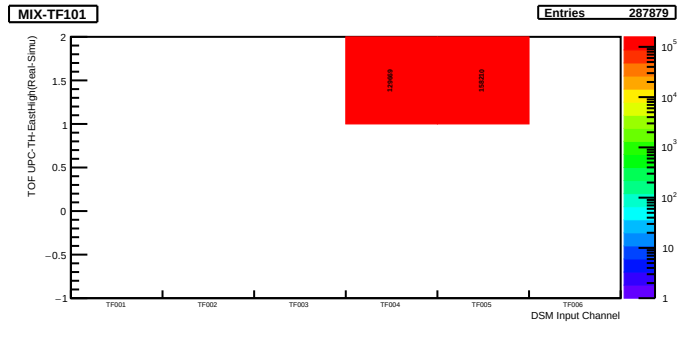

MIX-TF101
Entries 2764512
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

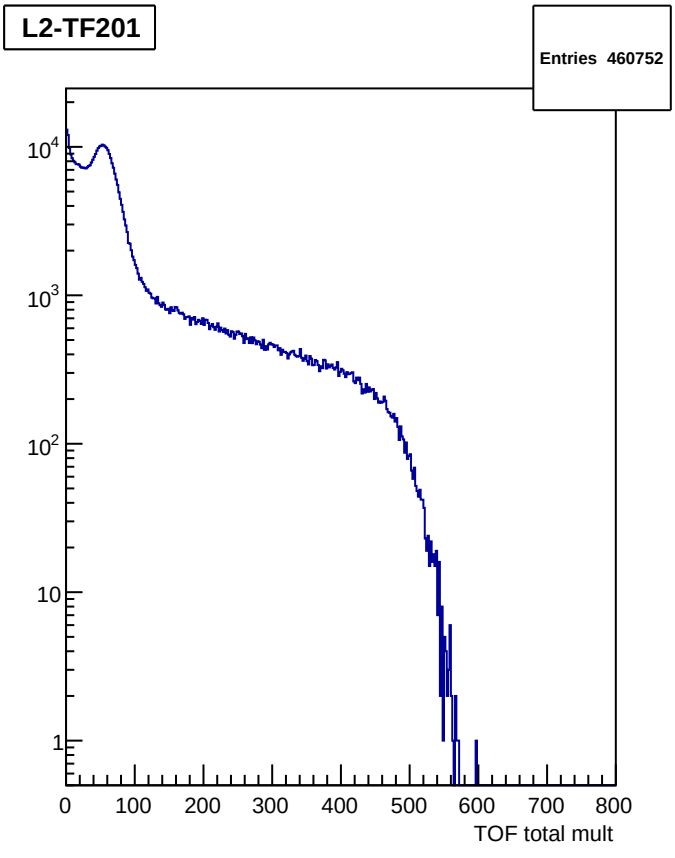

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

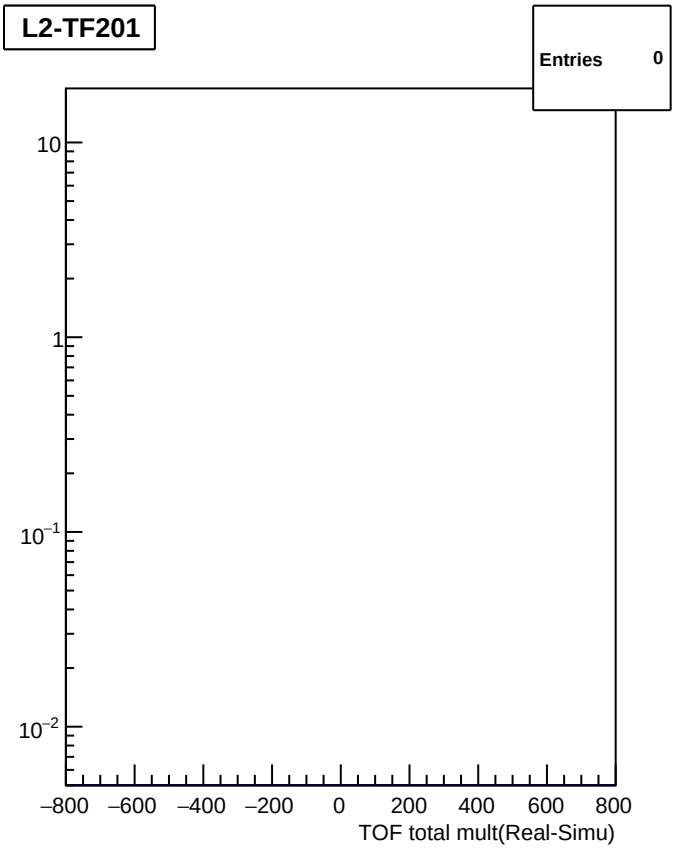

MIX-TF101
Entries 2764512
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

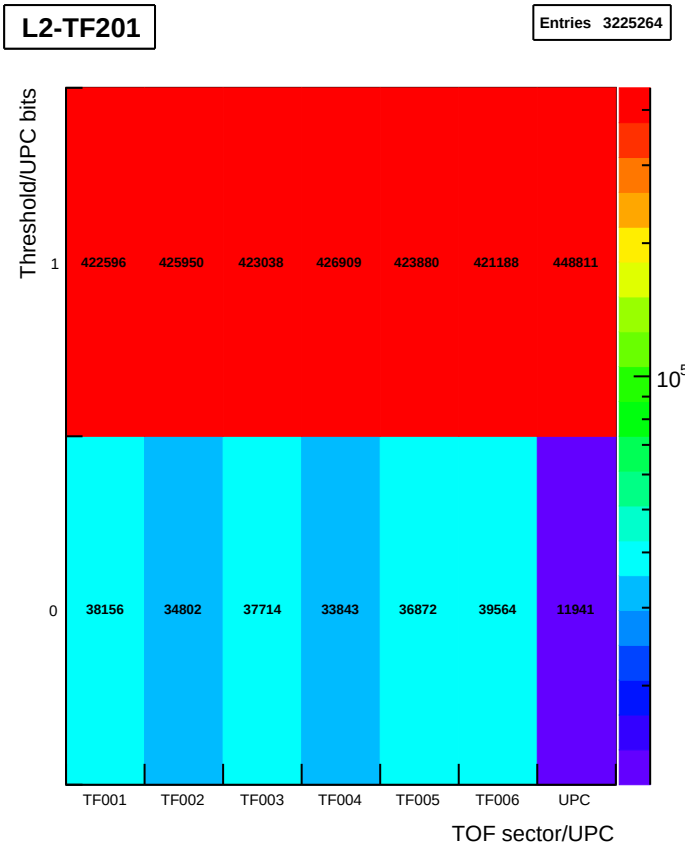

MIX-TF101
Entries 129271
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

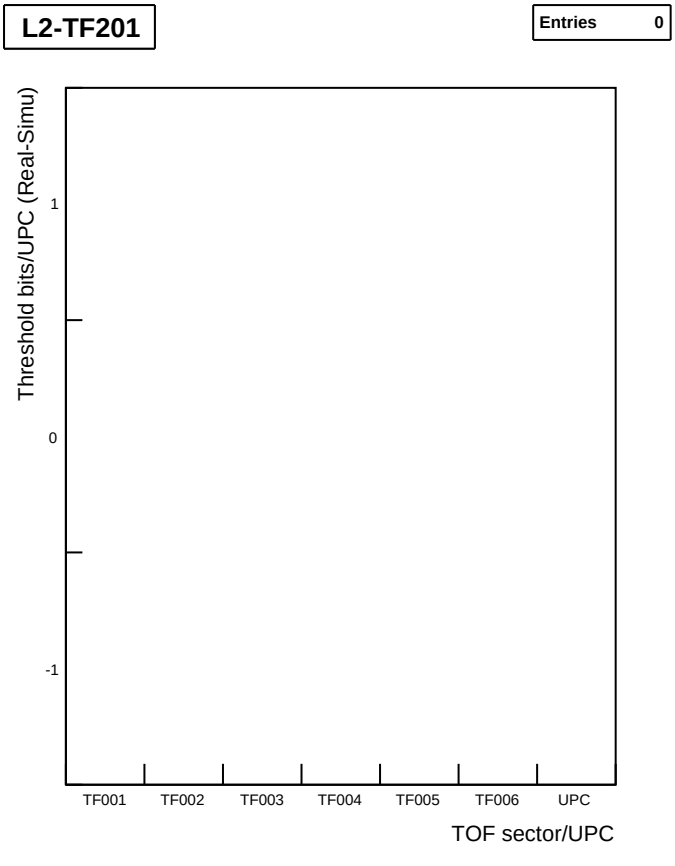

MIX-TF101
Entries 2764512
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

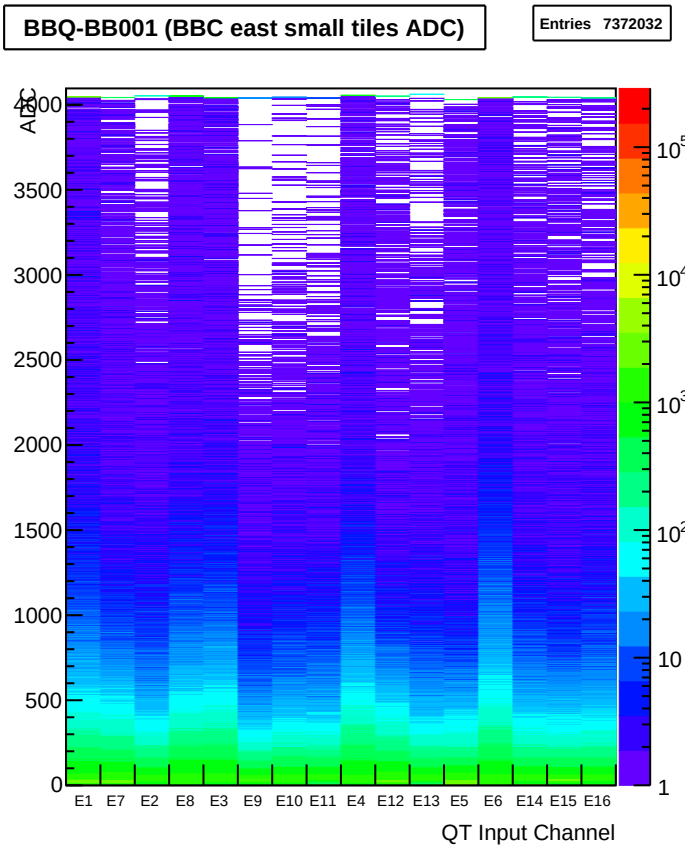

MIX-TF101
Entries 287879
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

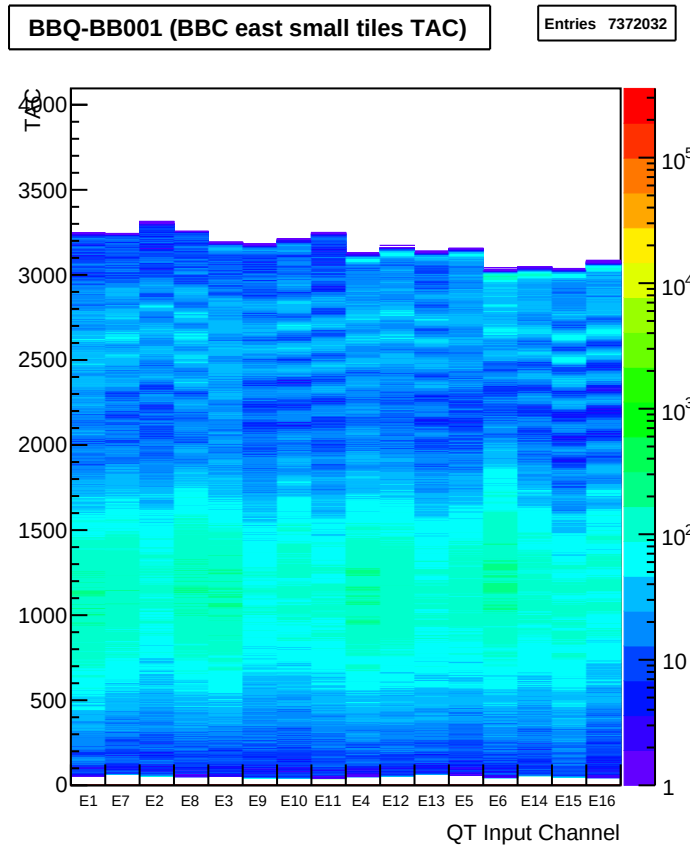

L2-TF201
Entries 460752
TOF total mult

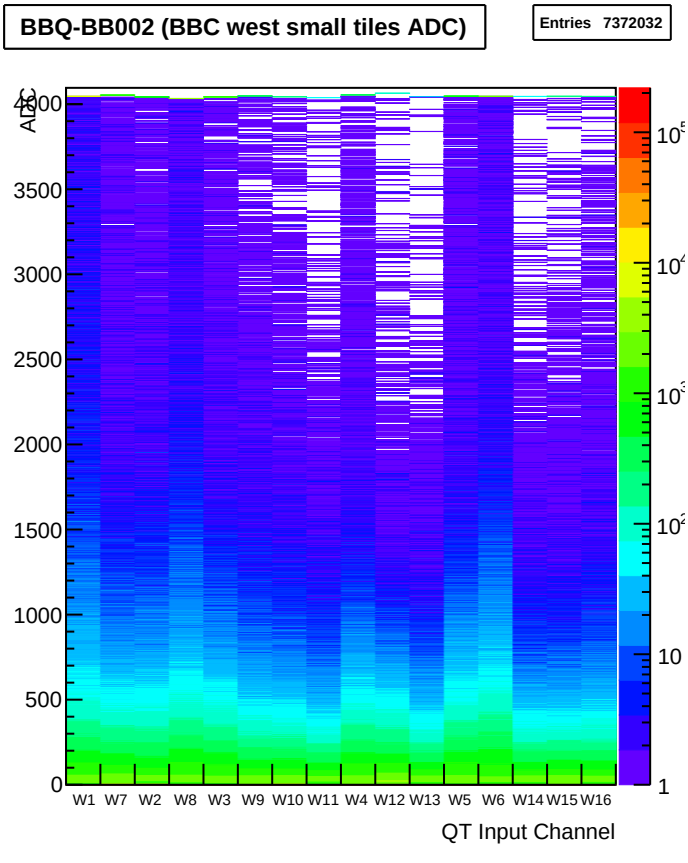

L2-TF201
Entries 0
TOF total mult(Real-Simu)

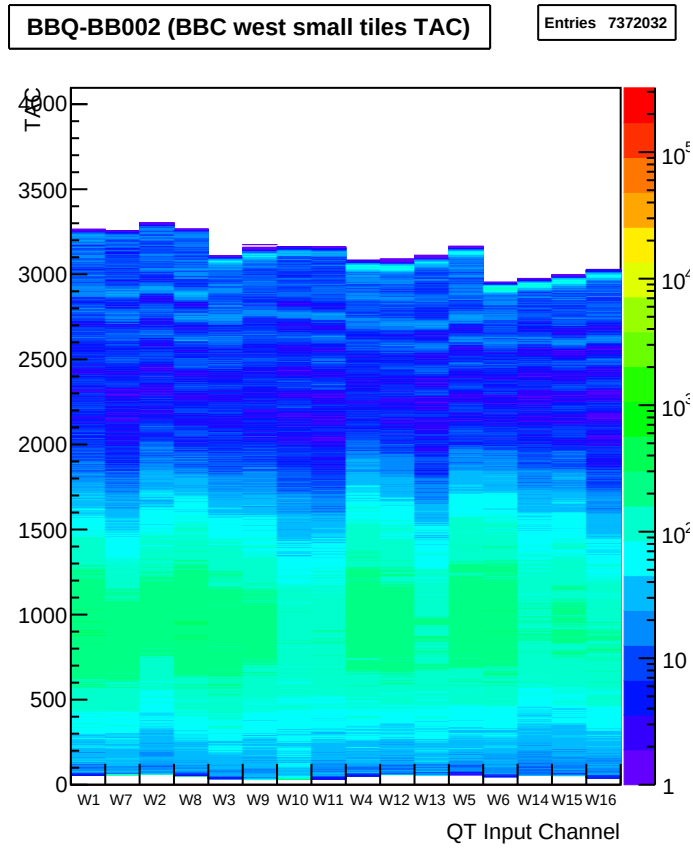

L2-TF201
Entries 3225264
Threshold/UPC bits
422596
425950
423038
426909
423880
421188
448811
38156
34802
37714
33843
36872
39564
11941
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

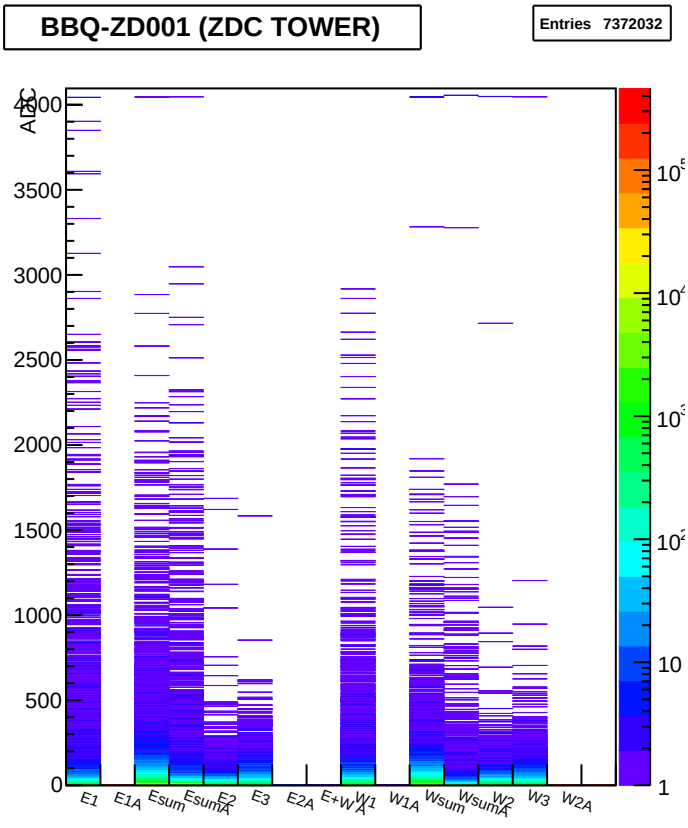

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

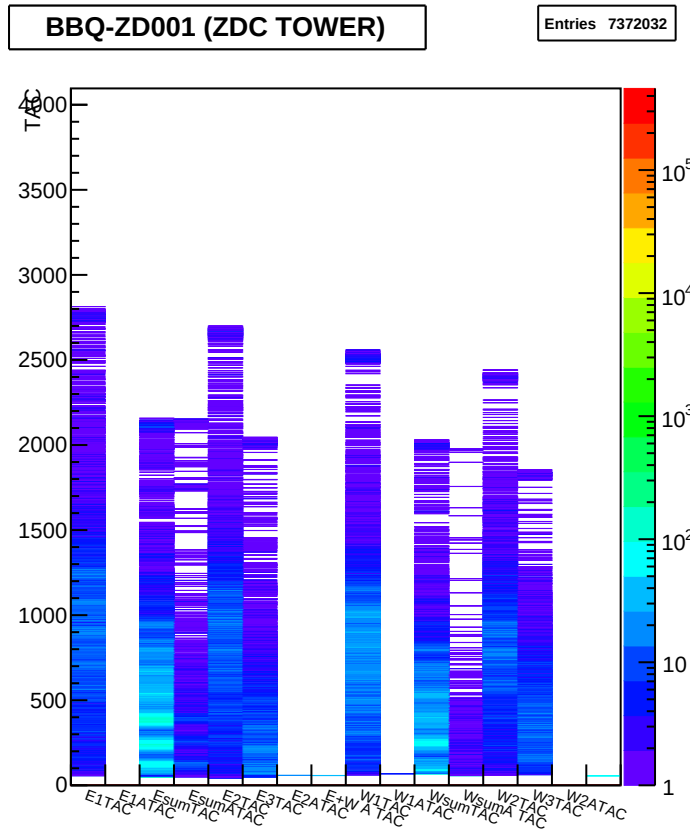

BBQ-BB001 (BBC east small tiles ADC)
Entries 7372032
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

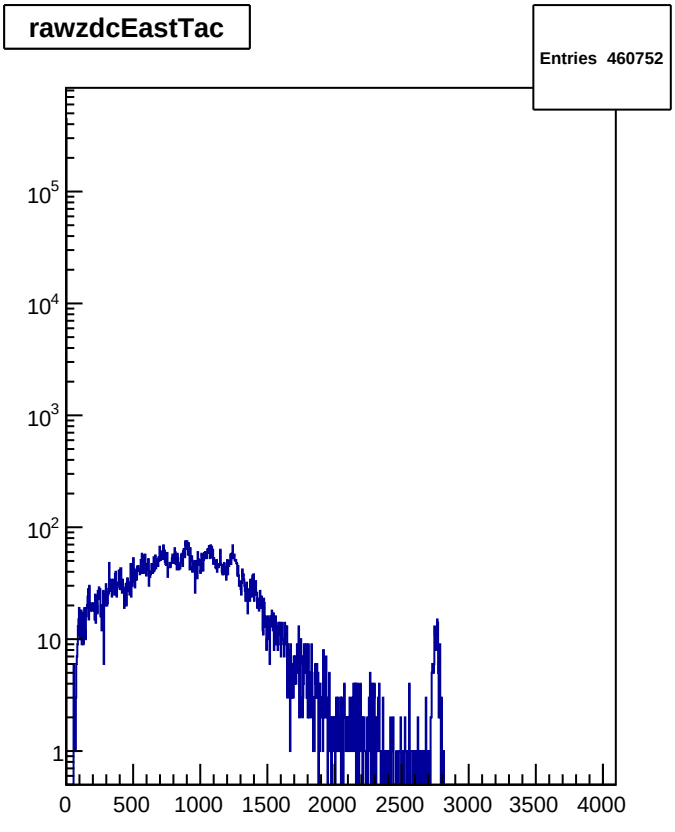

BBQ-BB001 (BBC east small tiles TAC)
Entries 7372032
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

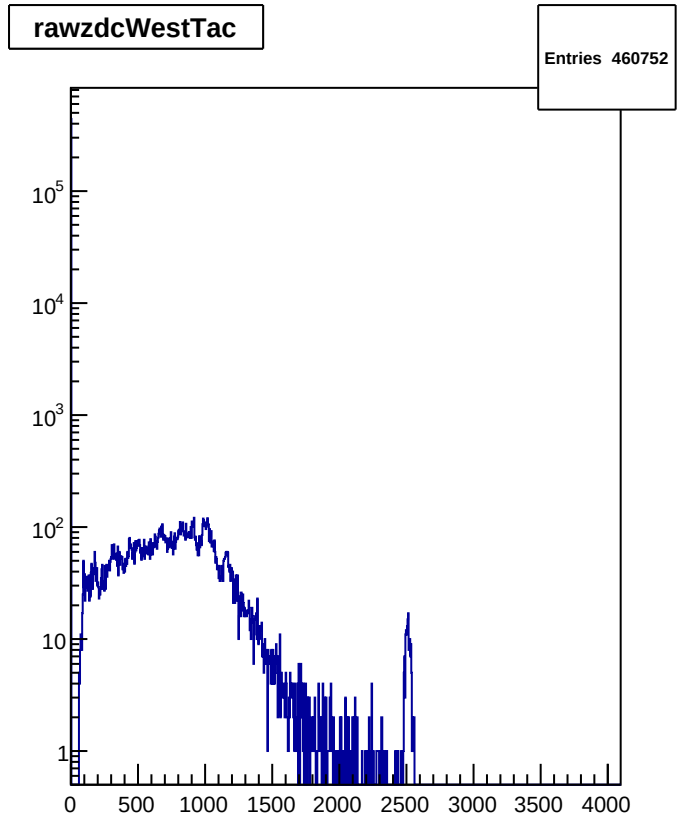

BBQ-BB002 (BBC west small tiles ADC)
Entries 7372032
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

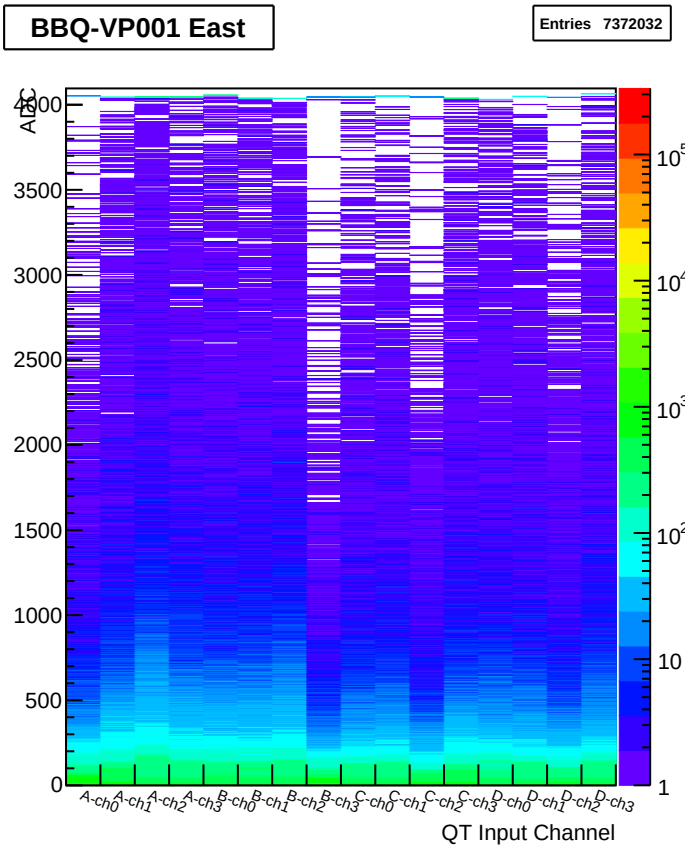

BBQ-BB002 (BBC west small tiles TAC)
Entries 7372032
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

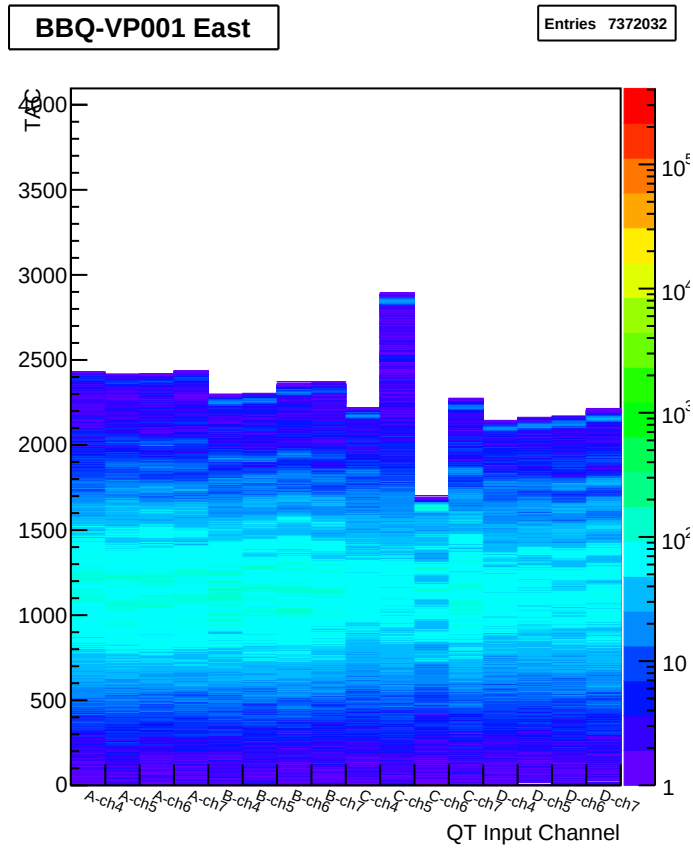

BBQ-ZD001 (ZDC TOWER)
Entries 7372032
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

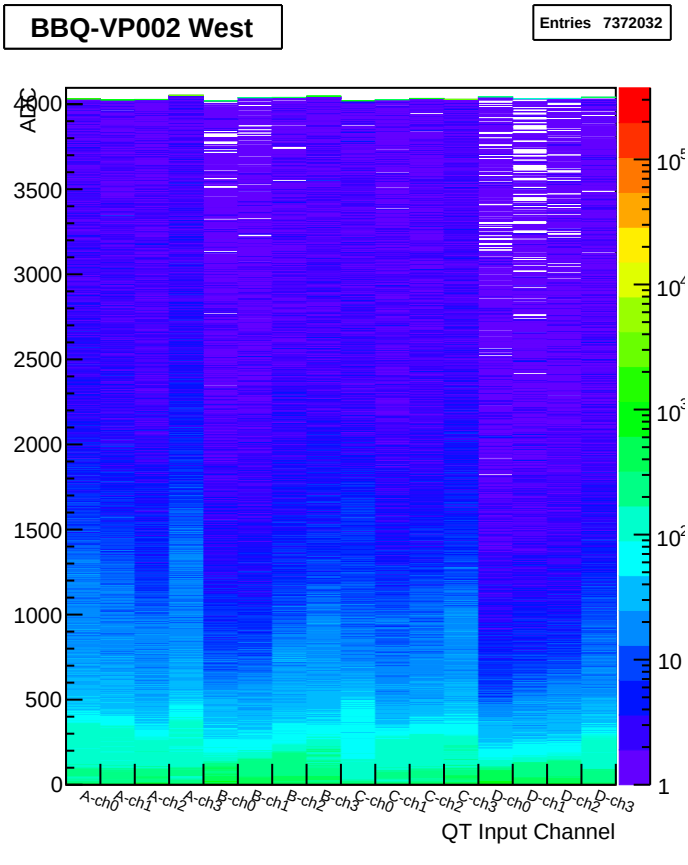

BBQ-ZD001 (ZDC TOWER)
Entries 7372032
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

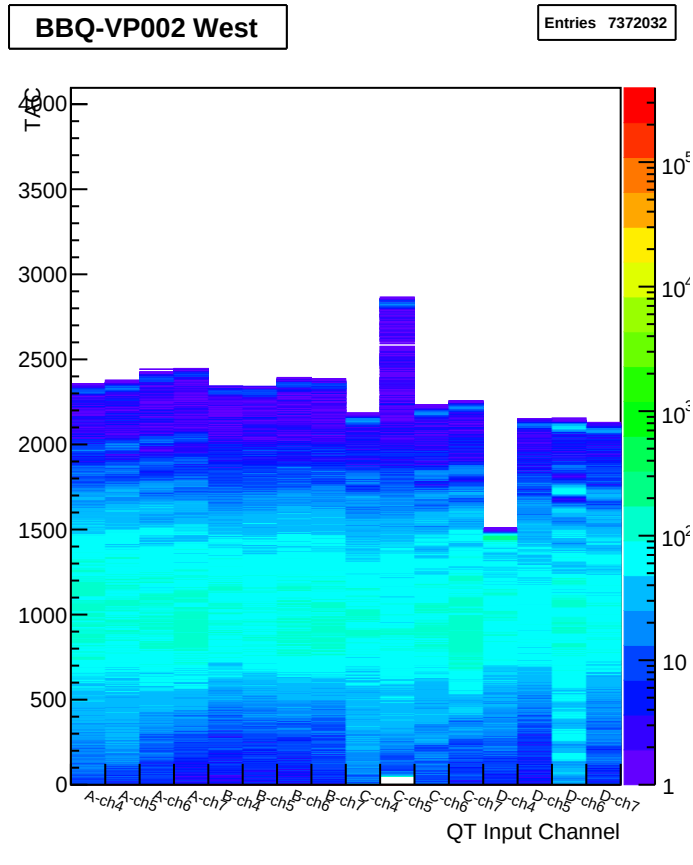

rawzdcEastTac
Entries 460752

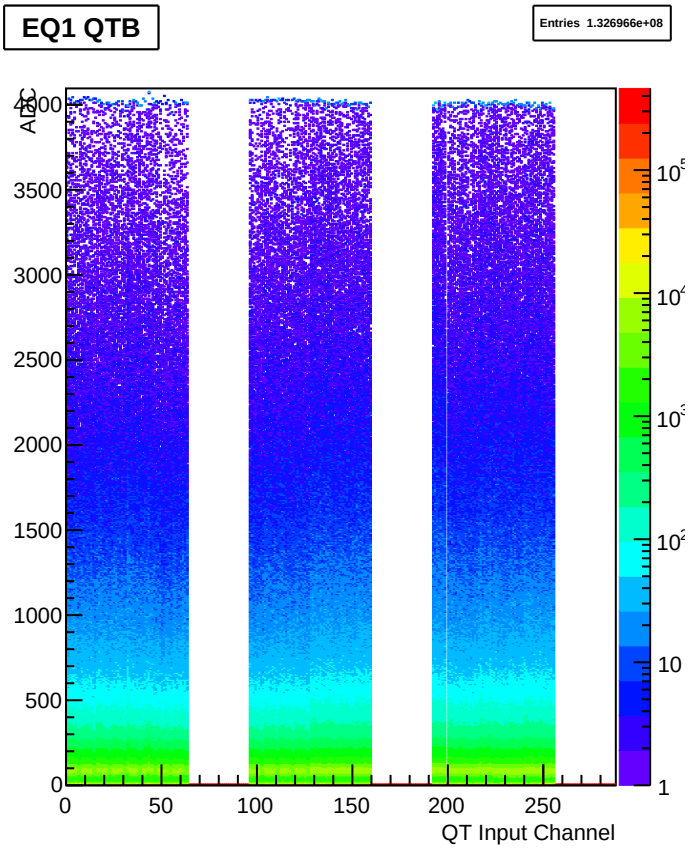

rawzdcWestTac
Entries 460752

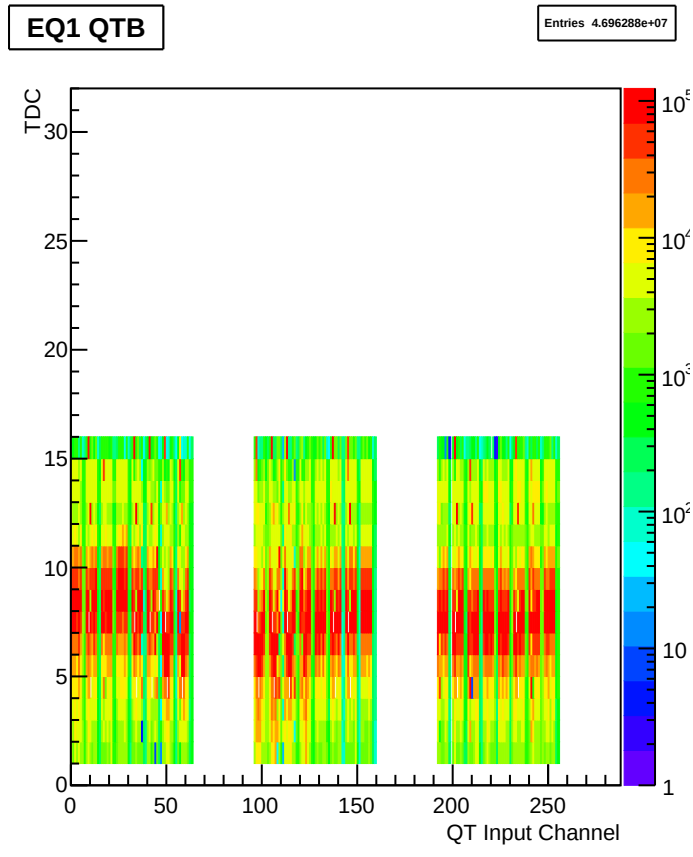

BBQ-VP001 East
Entries 7372032
ADC
QT Input Channel

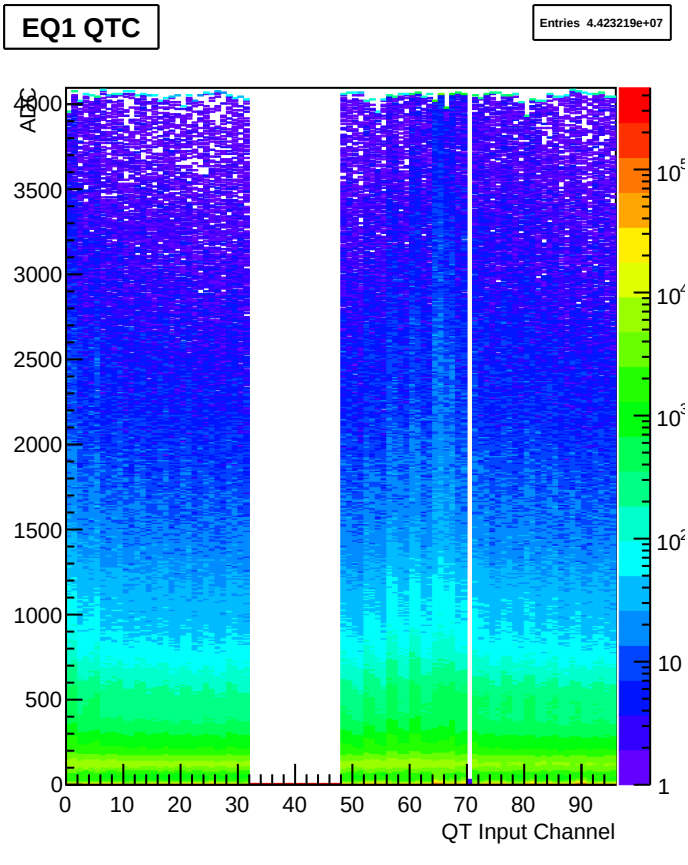

BBQ-VP001 East
Entries 7372032
ADC
QT Input Channel

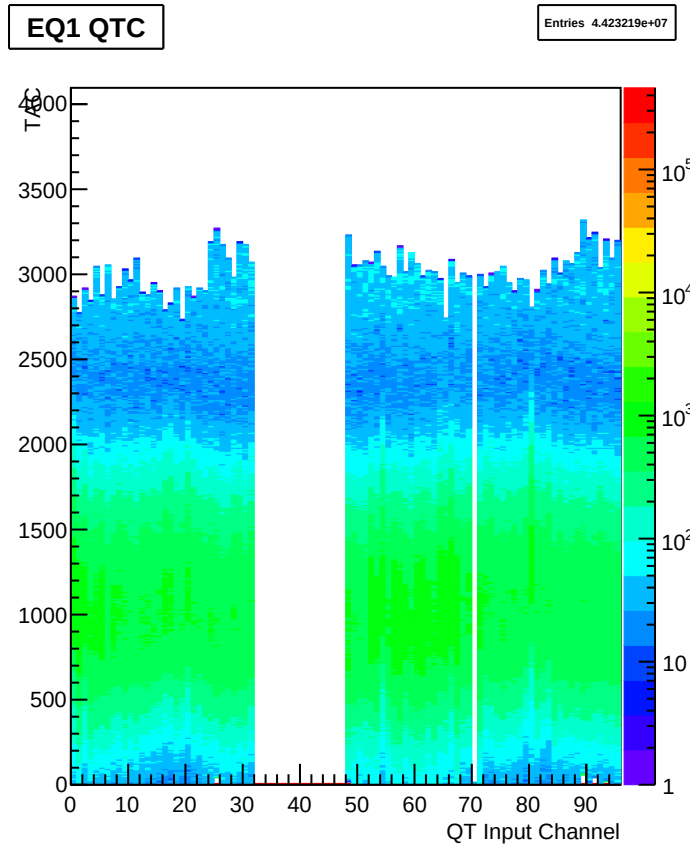

BBQ-VP002 West
Entries 7372032
ADC
QT Input Channel

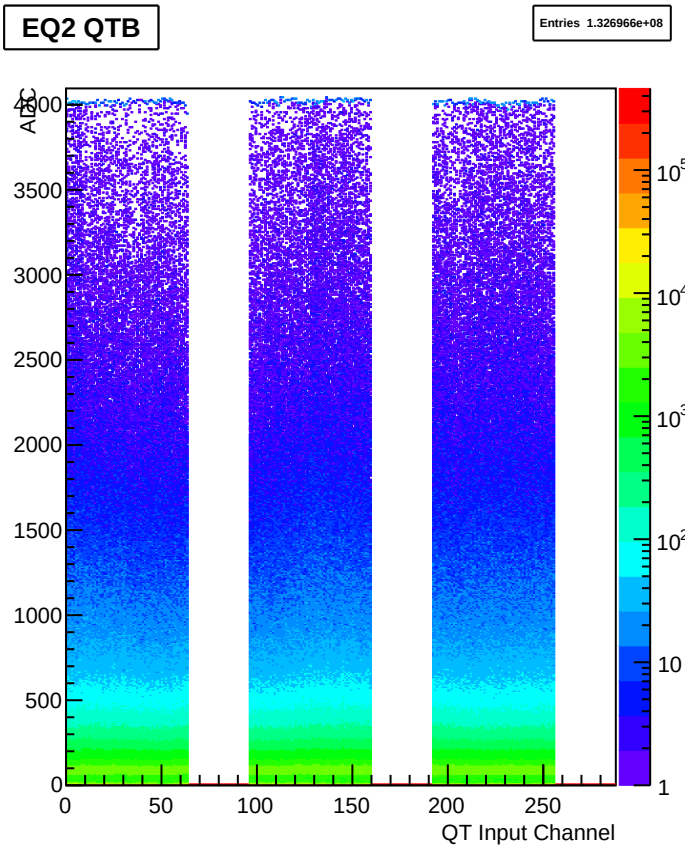

BBQ-VP002 West
Entries 7372032
ADC
QT Input Channel

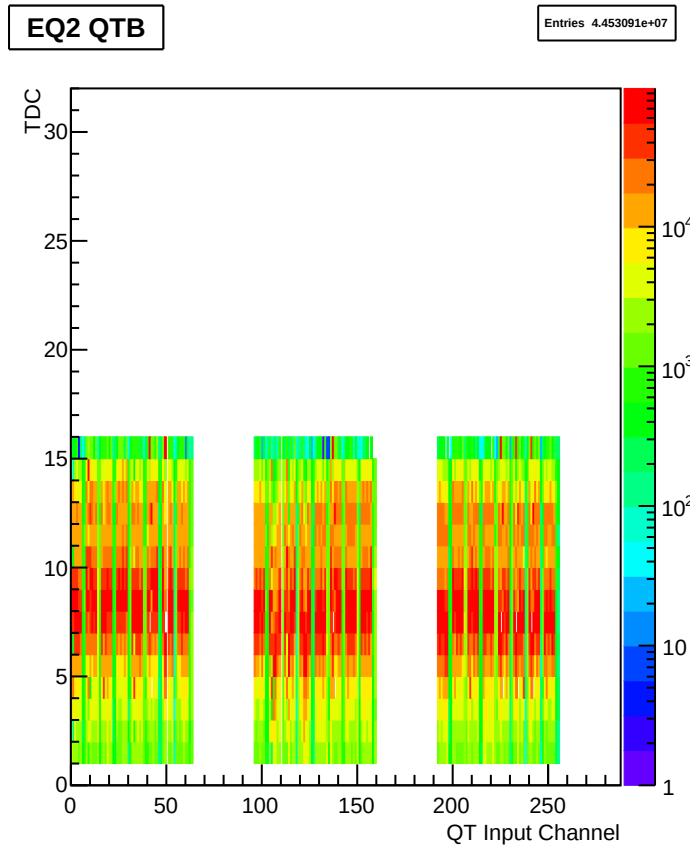

EQ1 QTB
Entries 1.326966e+08
ADC
QT Input Channel

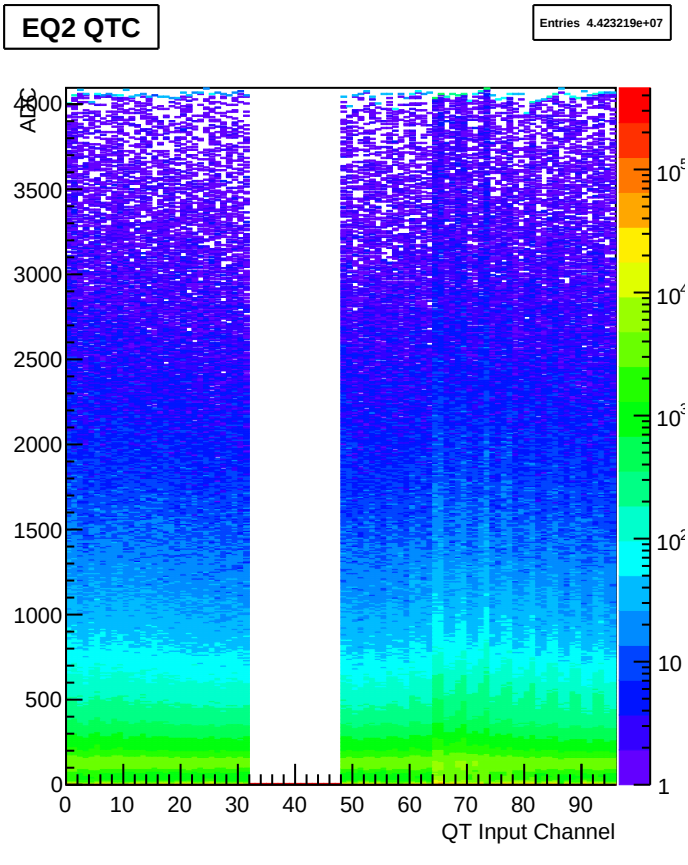

EQ1 QTB
Entries 4.696288e+07
TDC
QT Input Channel

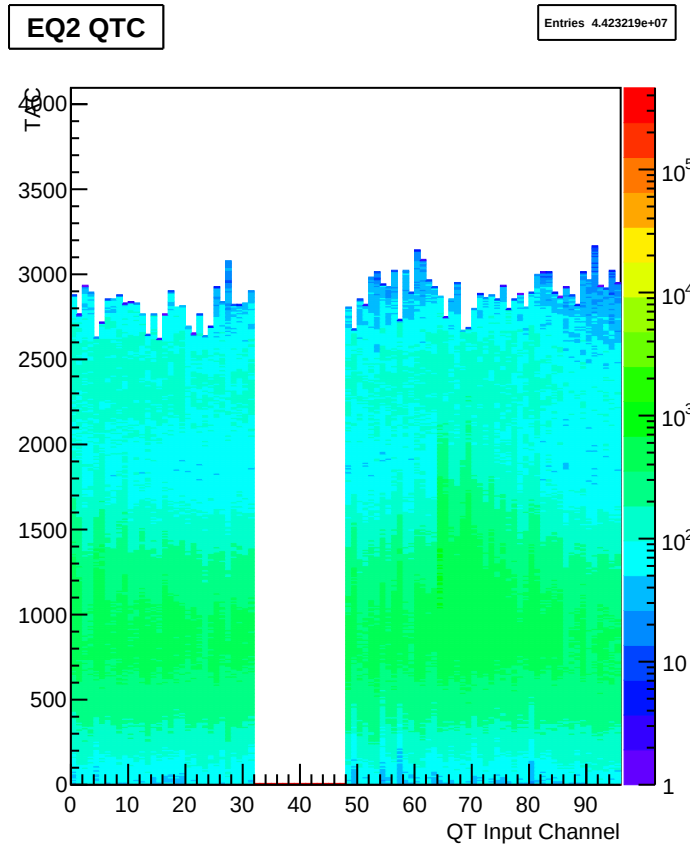

EQ1 QTC
Entries 4.423219e+07
ADC
QT Input Channel

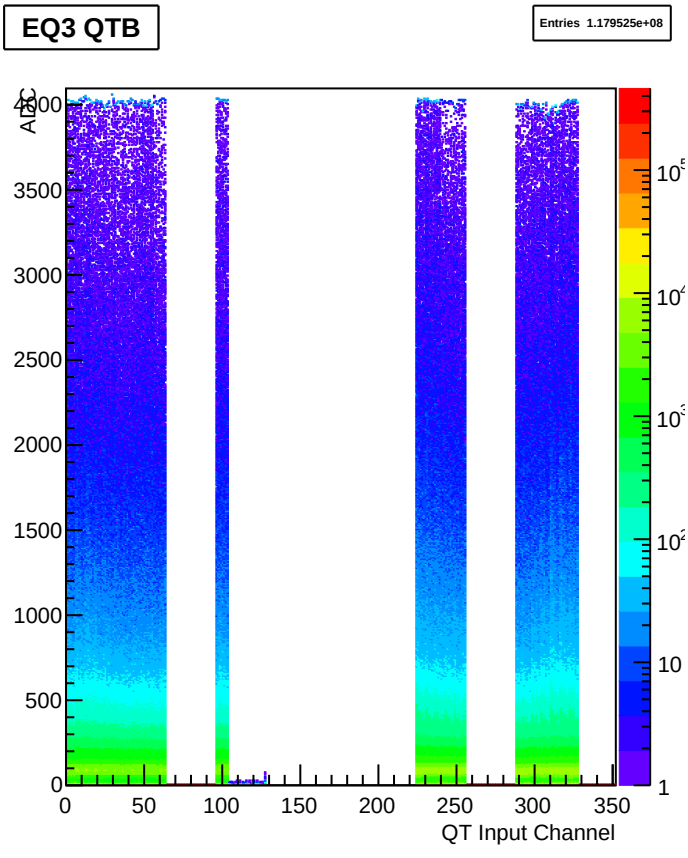

EQ1 QTC
Entries 4.423219e+07
TADC
QT Input Channel

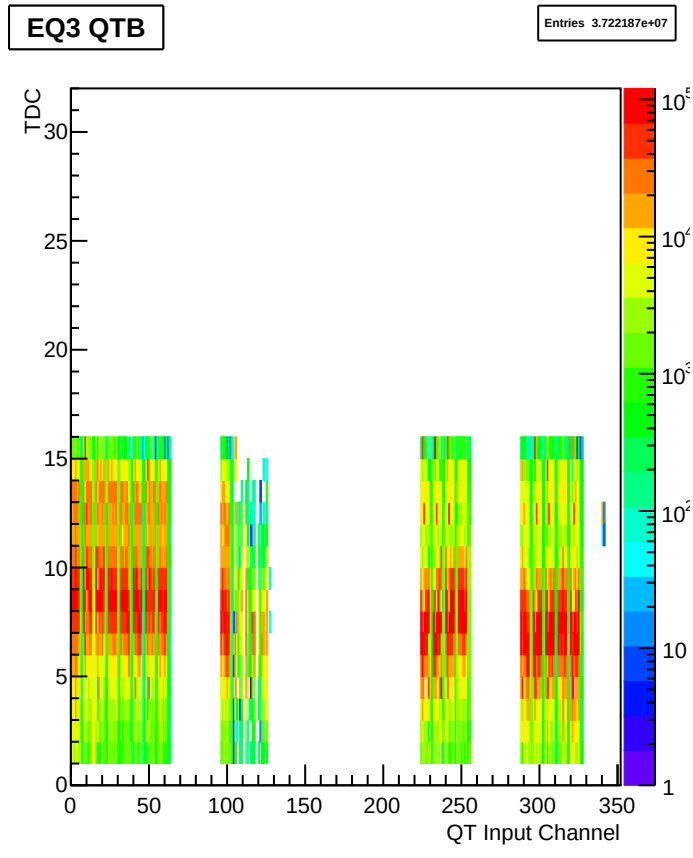

EQ2 QTB
Entries 1.326966e+08
ADC
QT Input Channel

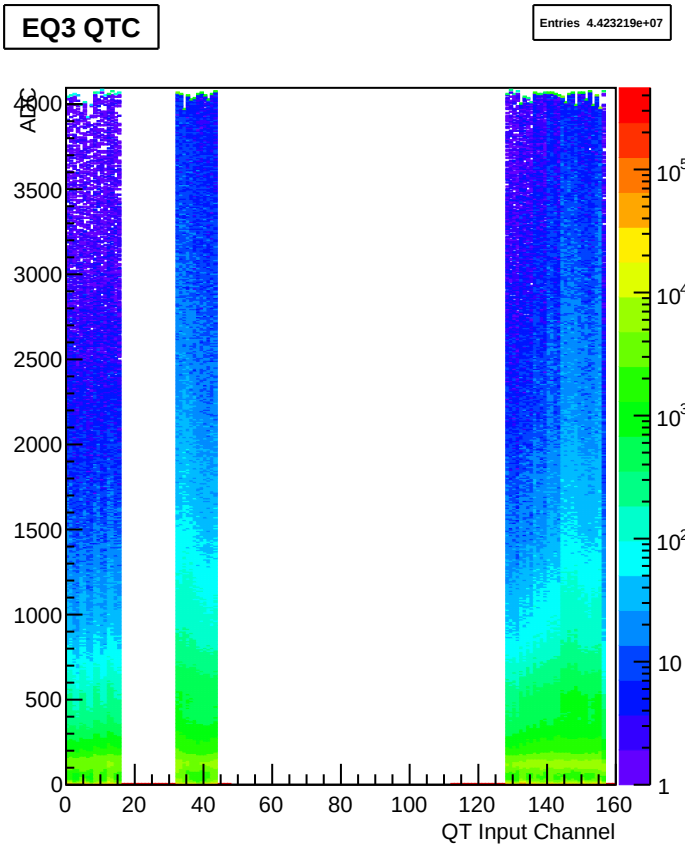

EQ2 QTB
Entries 4.453091e+07
TDC
QT Input Channel


EQ2 QTC
Entries 4.423219e+07
ADC
QT Input Channel


EQ2 QTC
Entries 4.423219e+07
TADC
QT Input Channel


EQ3 QTB
Entries 1.179525e+08
ADC
QT Input Channel


EQ3 QTB
Entries 3.722187e+07
TDC
QT Input Channel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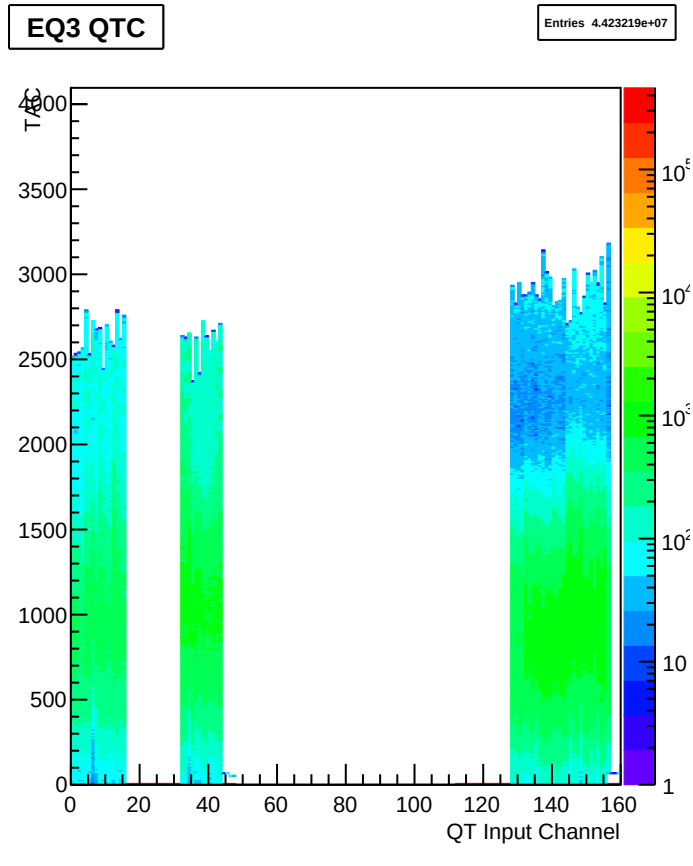
Entries 4.423219e+07
ADC
QT Input Channel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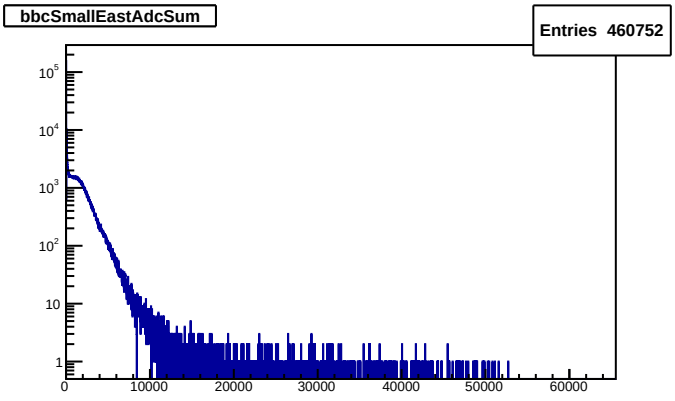
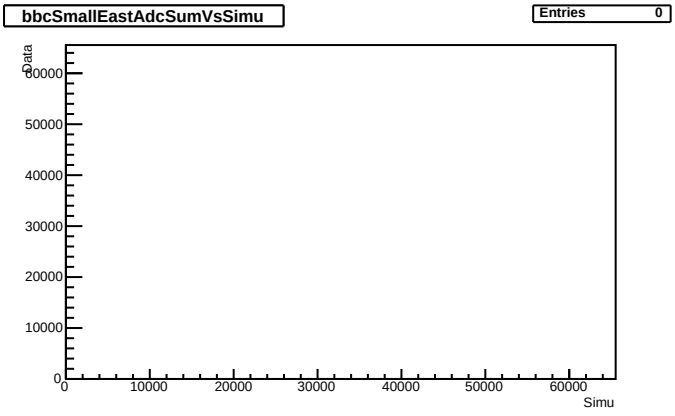
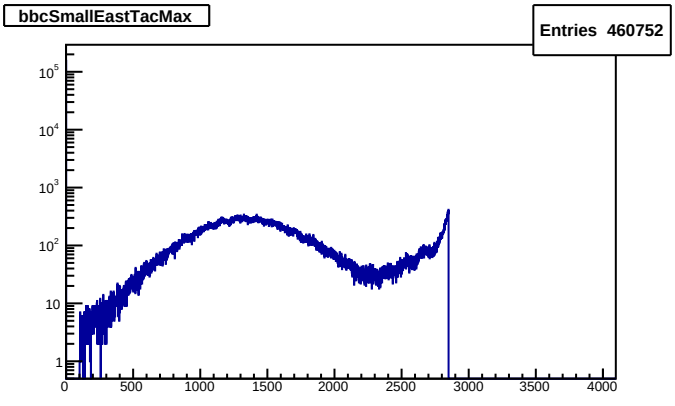
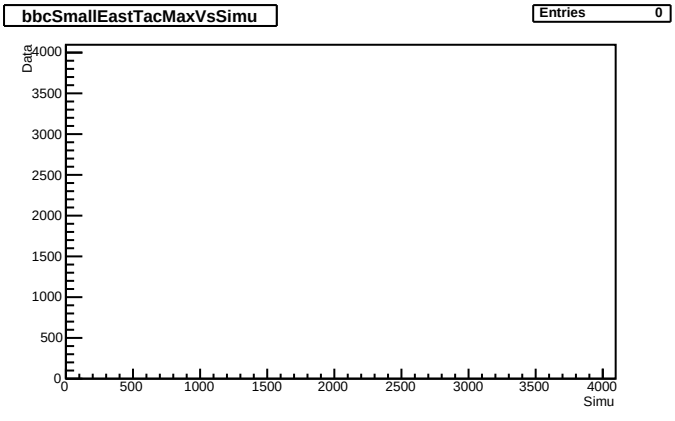
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 460752


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 460752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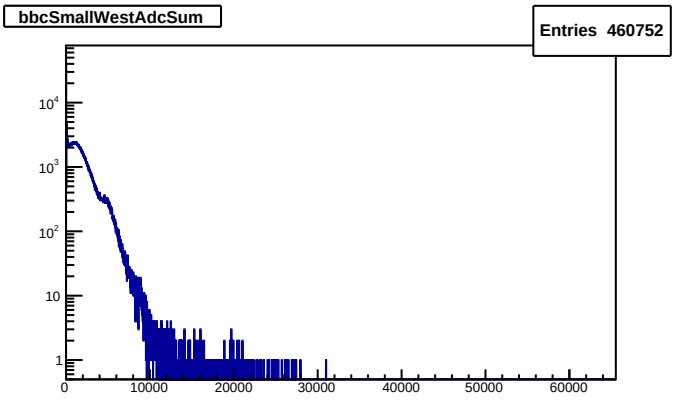
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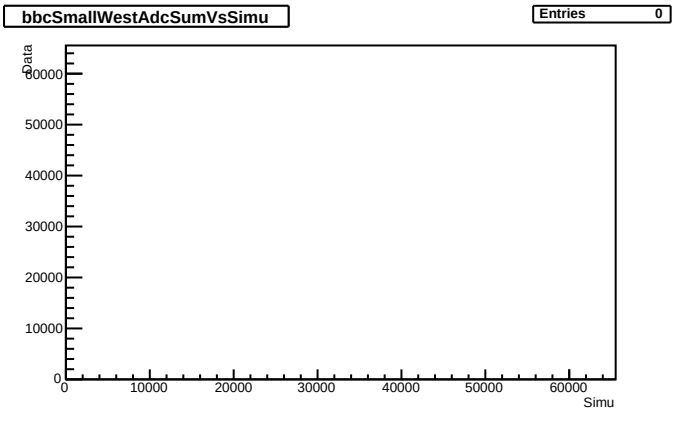
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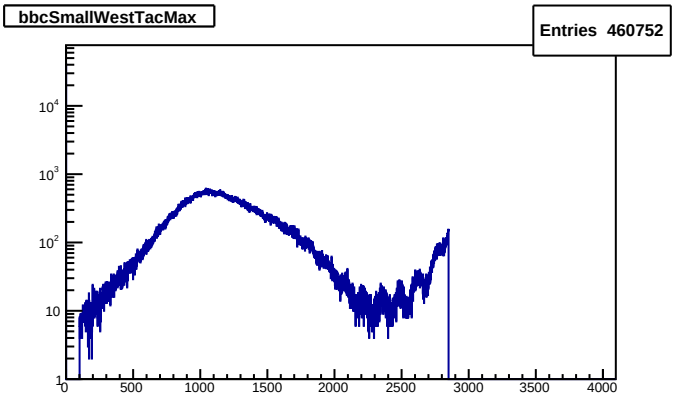
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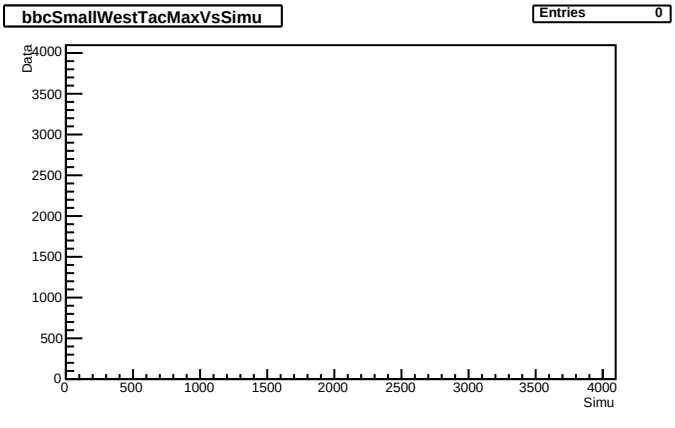
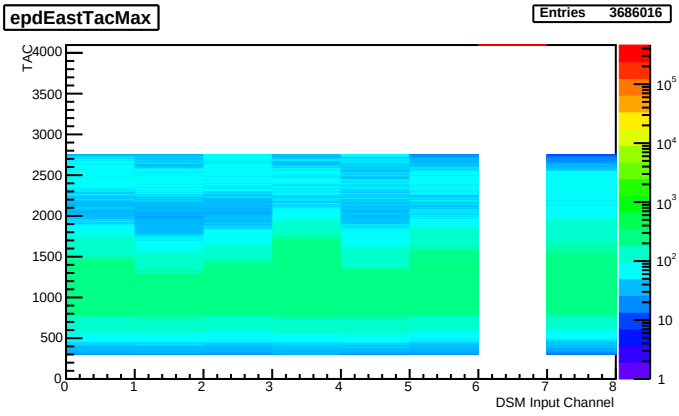
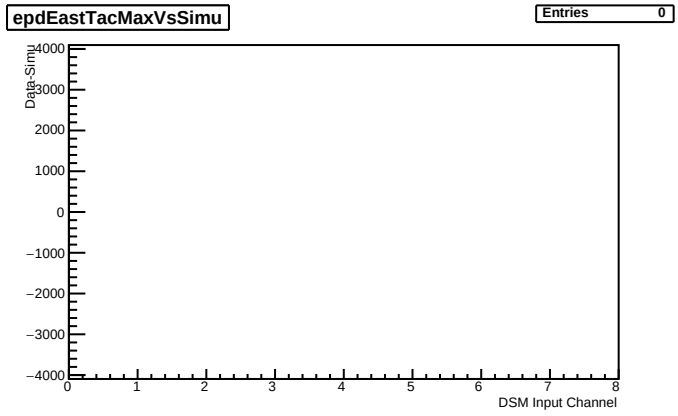
Entries 460752


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 3686016
TAC
DSM Input Channel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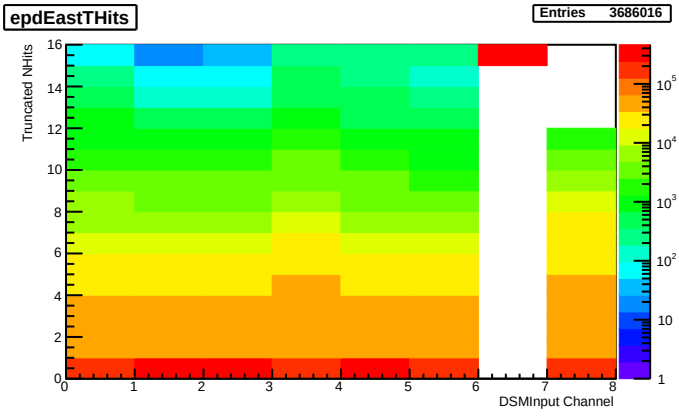
Data-Simu
DSM Input Channel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Entries 3686016
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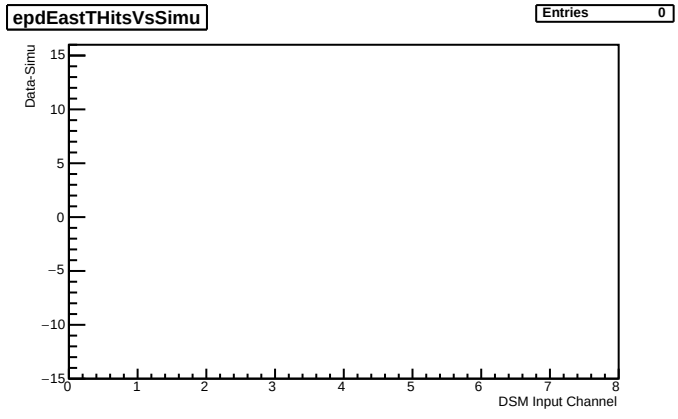
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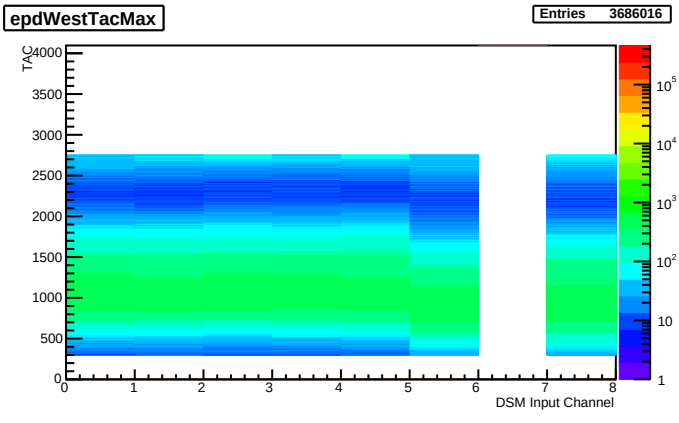
DSM Input Channel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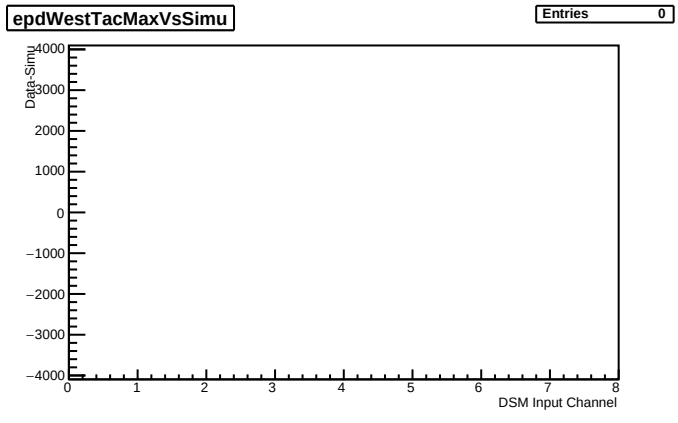
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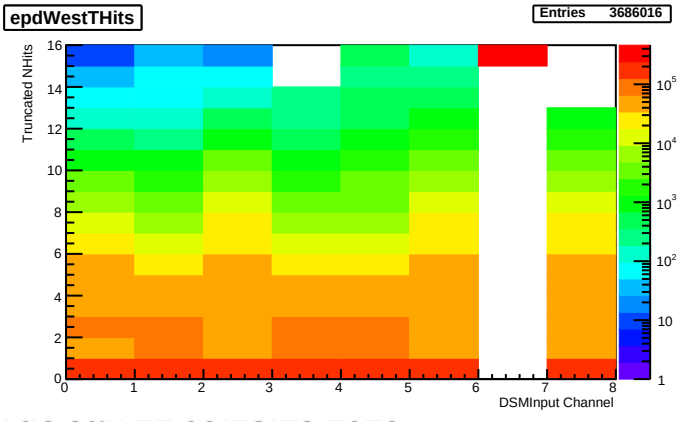
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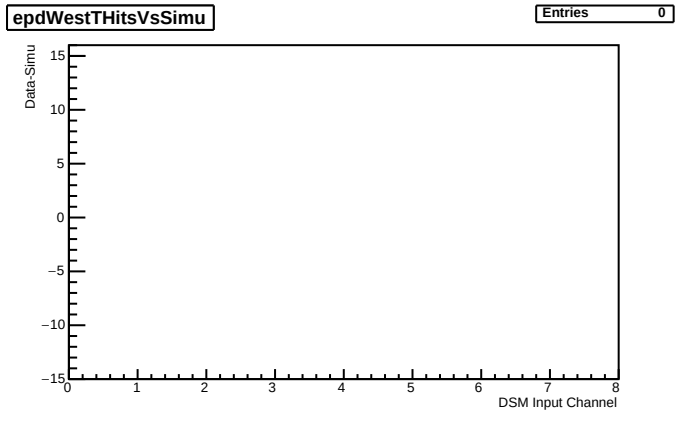
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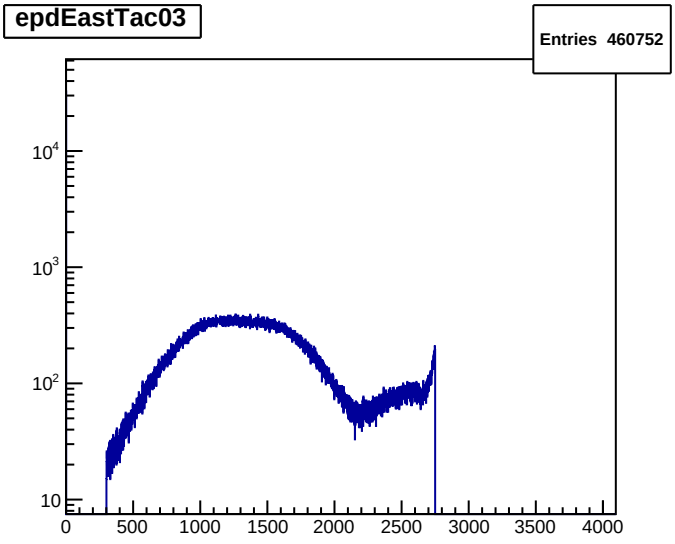
DSM Input Channel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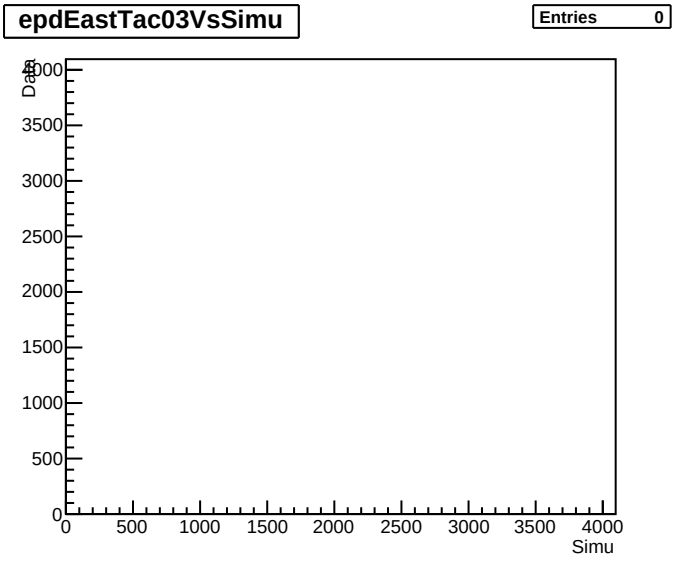
Entries 460752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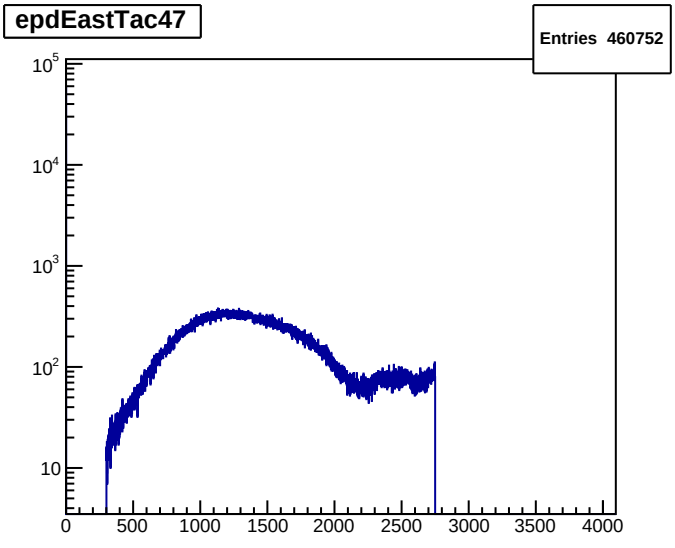
Entries 0
Data
Simu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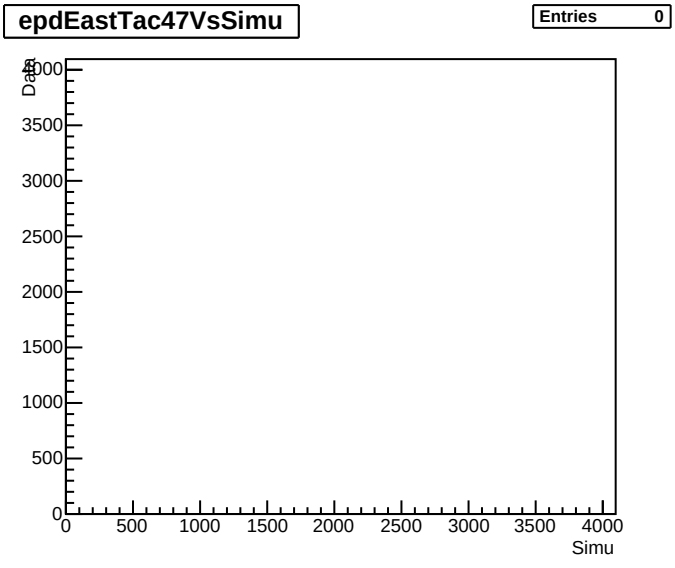
Entries 460752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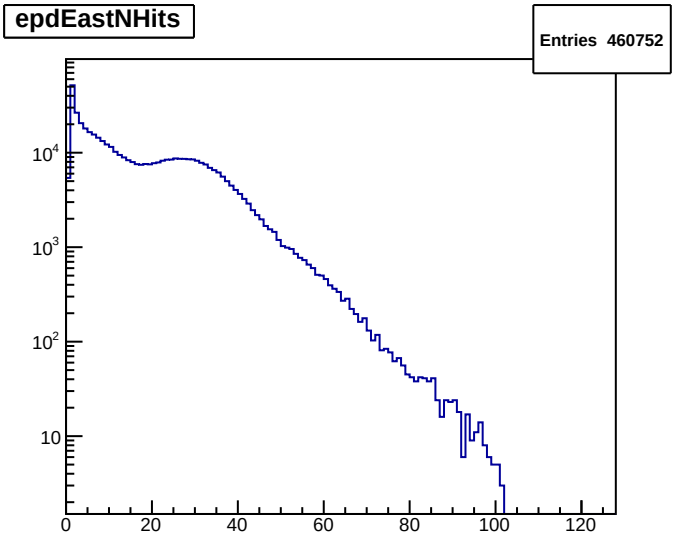
Entries 0
Data
Simu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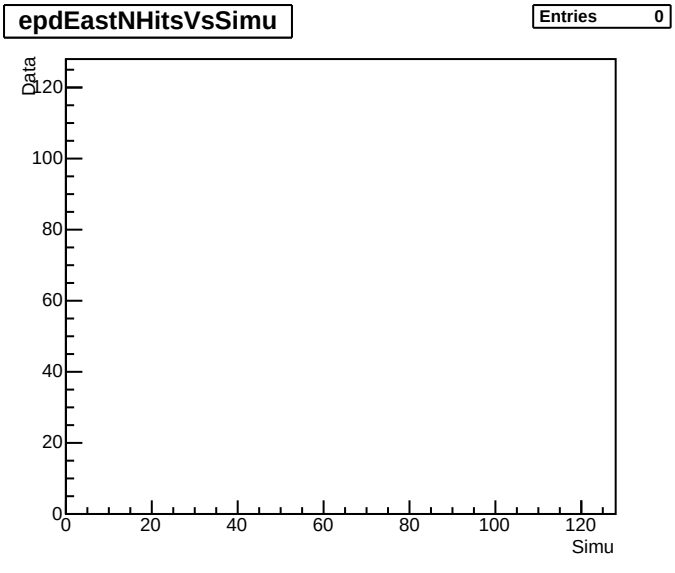
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Data
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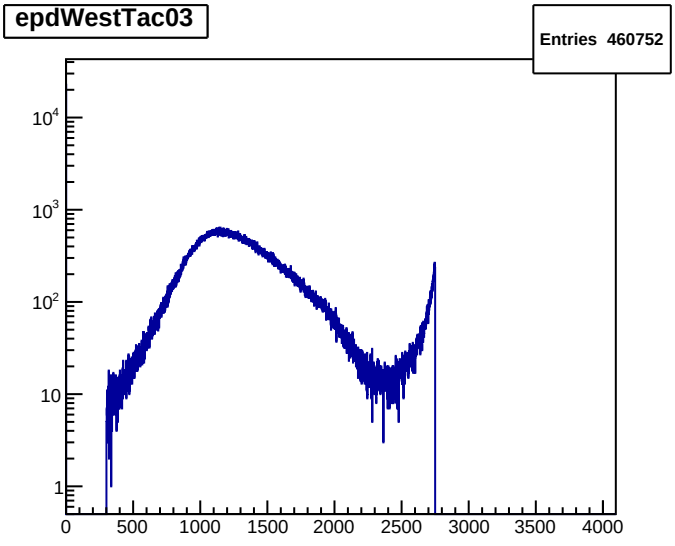
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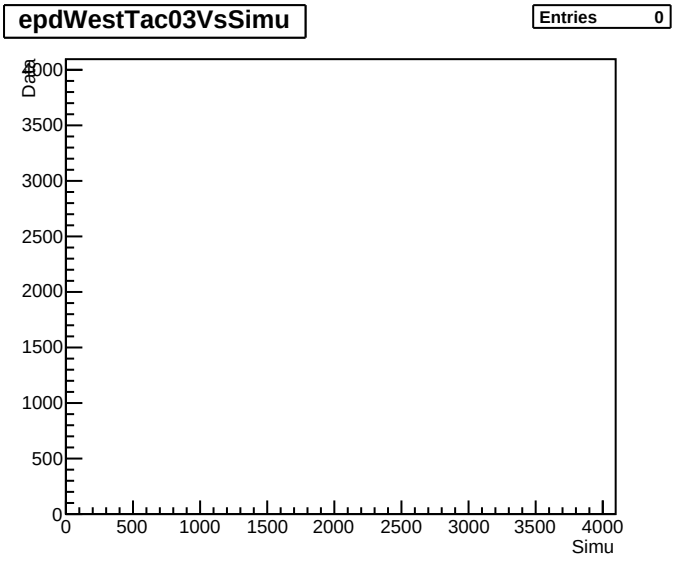
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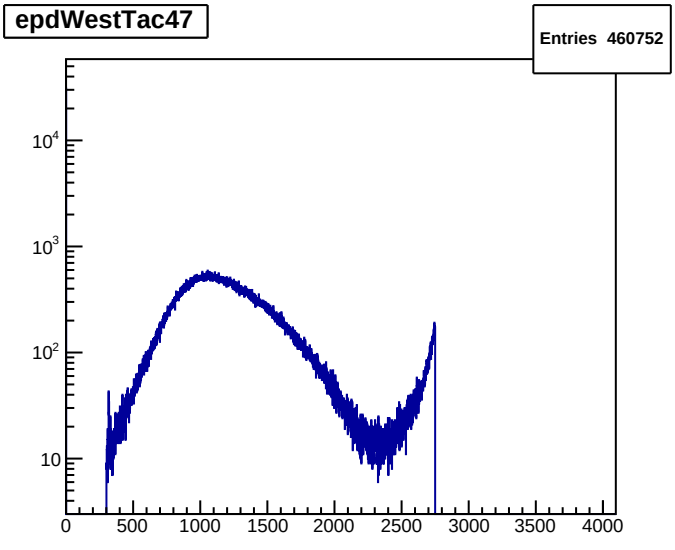
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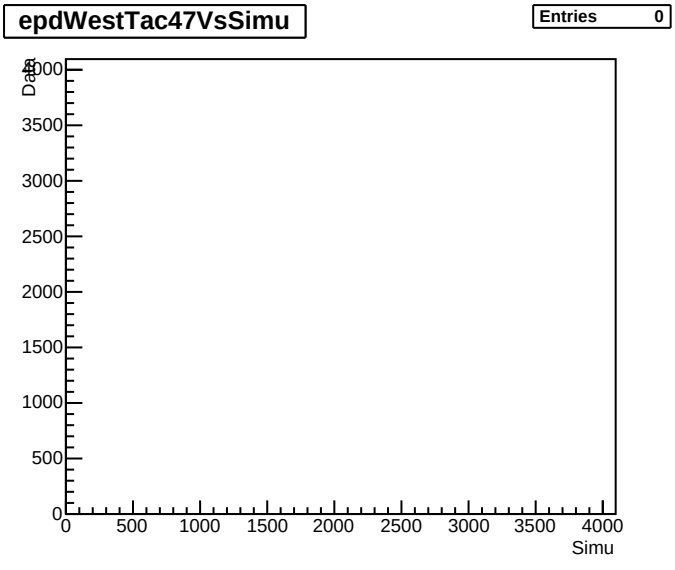
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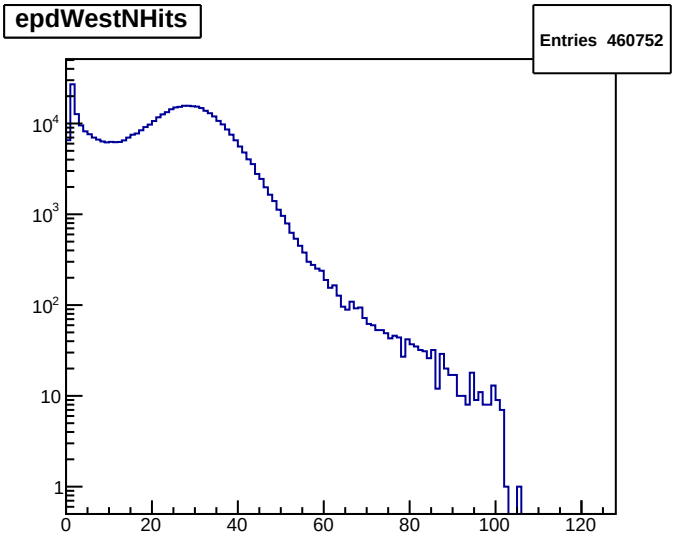
Data
Simu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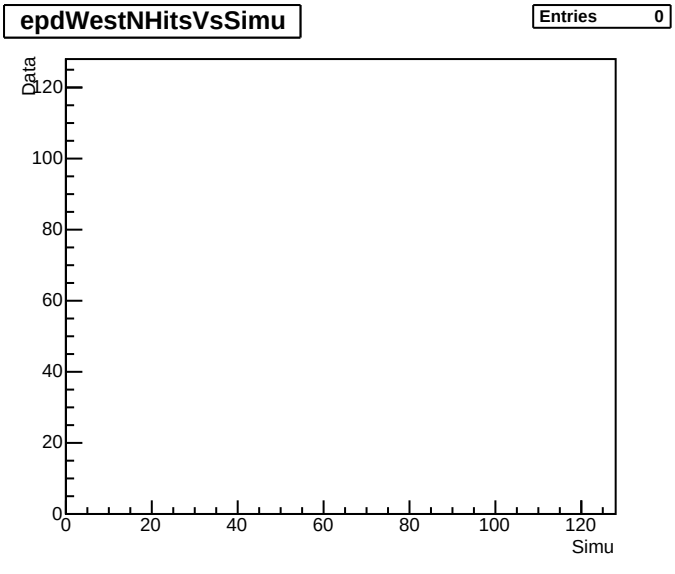
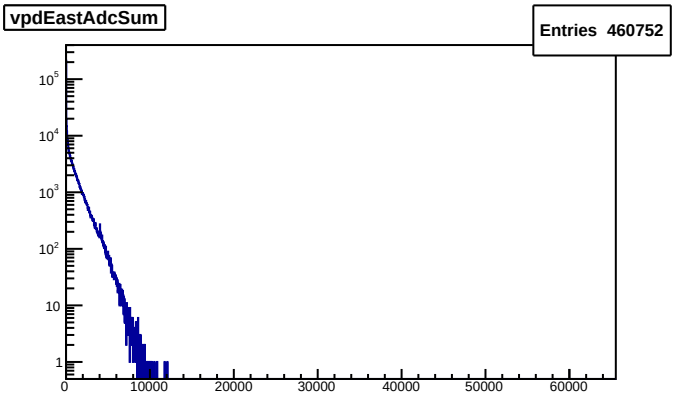
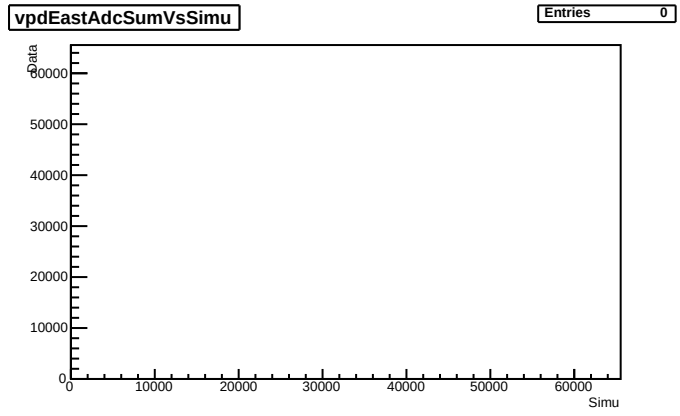
Entries 460752


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 460752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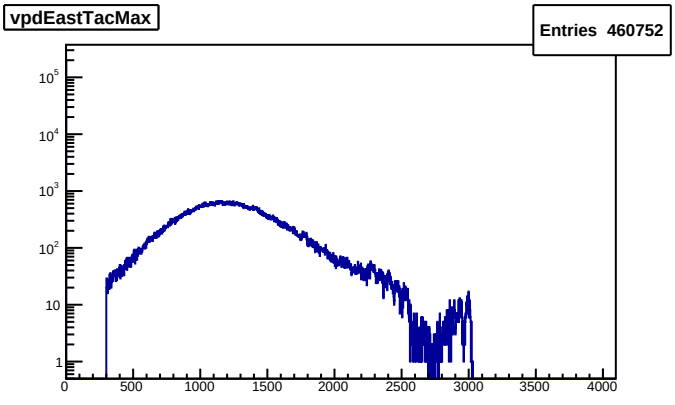
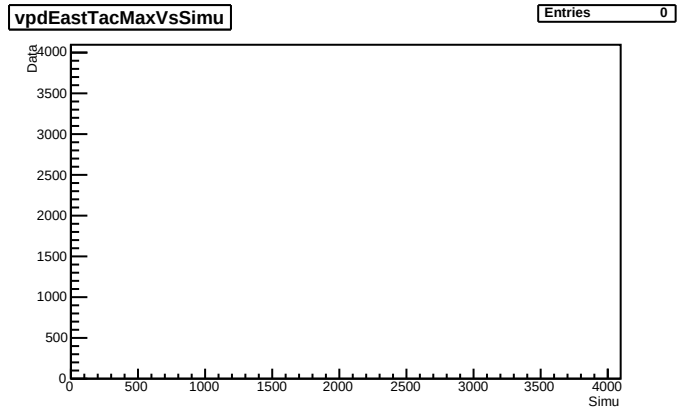
Entries 0
Data
Simu


vpdEastTacMax
Entries 460752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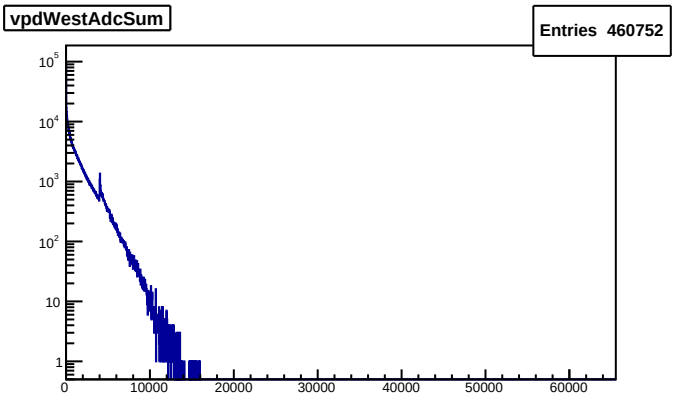
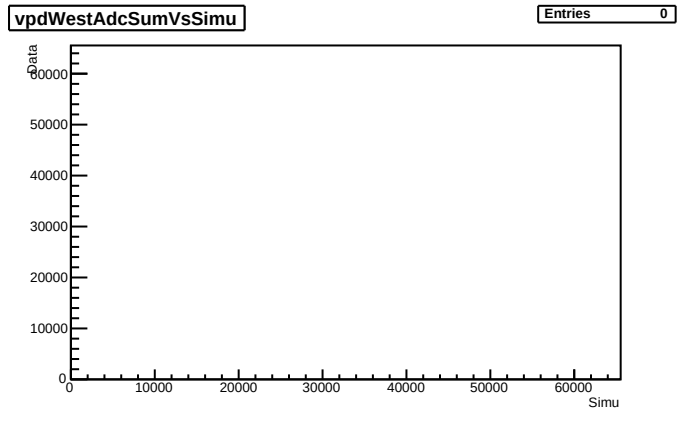
Entries 0
Data
Simu


vpdWestAdcSum
Entries 460752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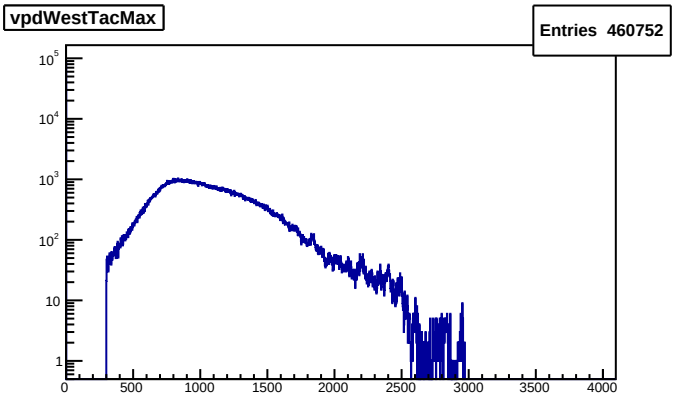
Entries 0
Data
Simu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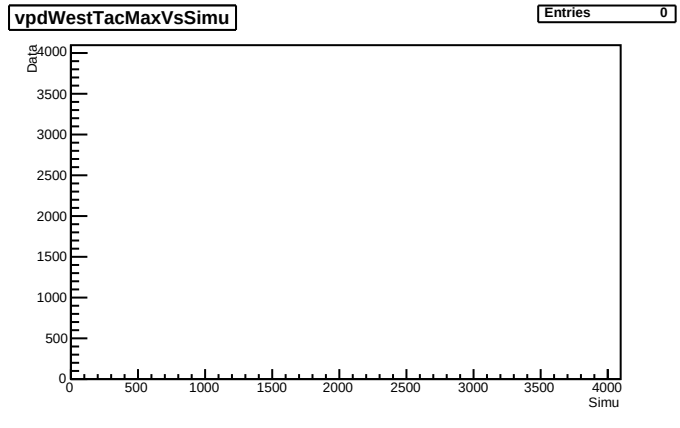
Entries 460752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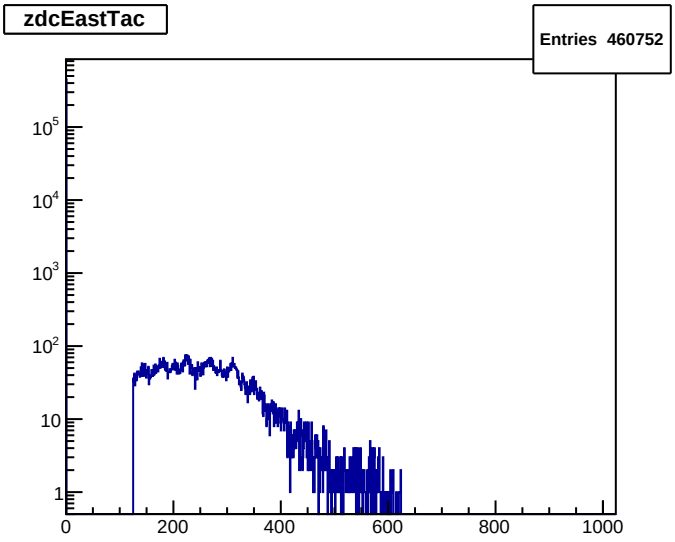
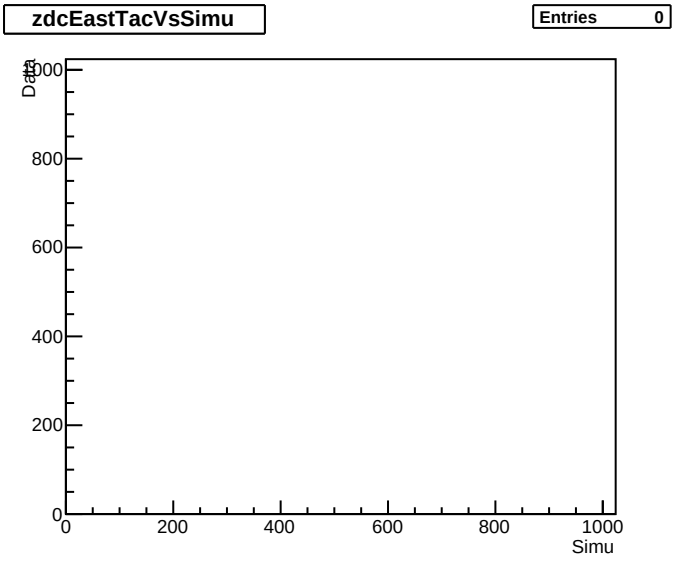
Entries 0
Data
Simu


zdcEastTac
Entries 460752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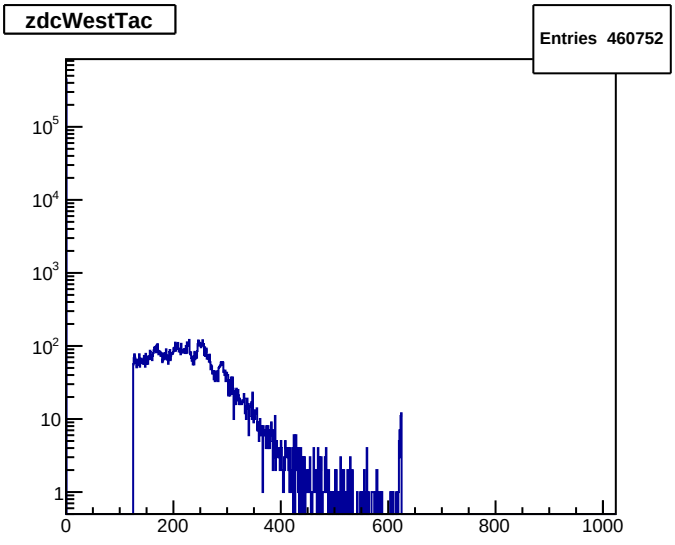
Data
Simu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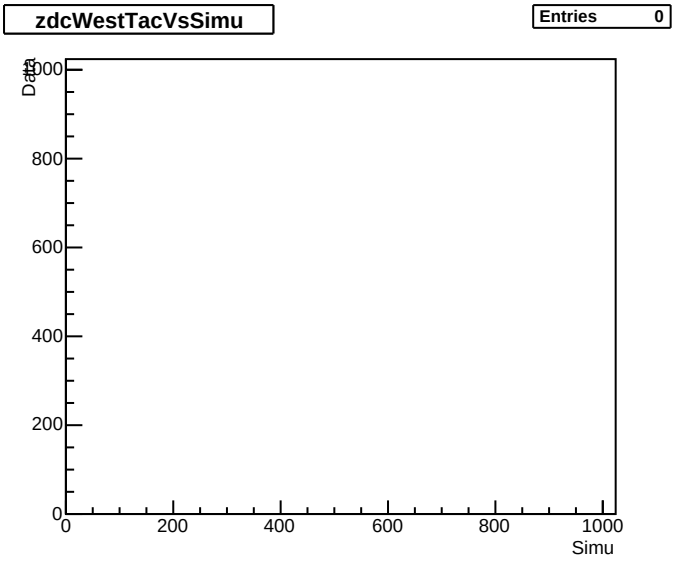
Entries 460752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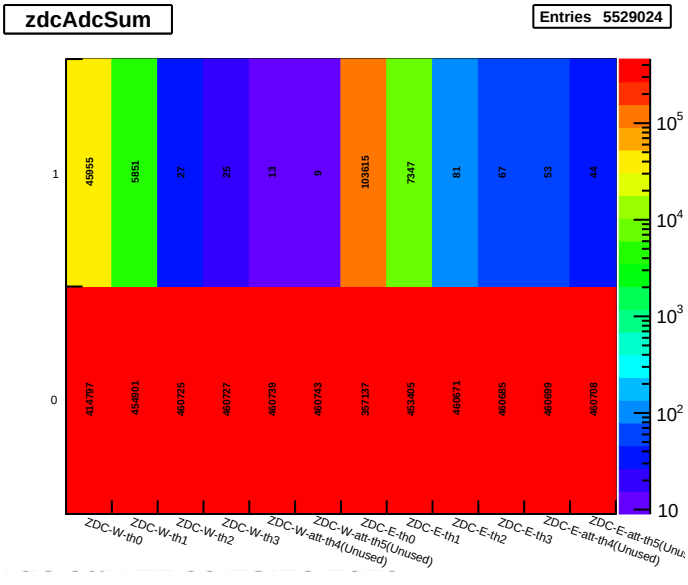
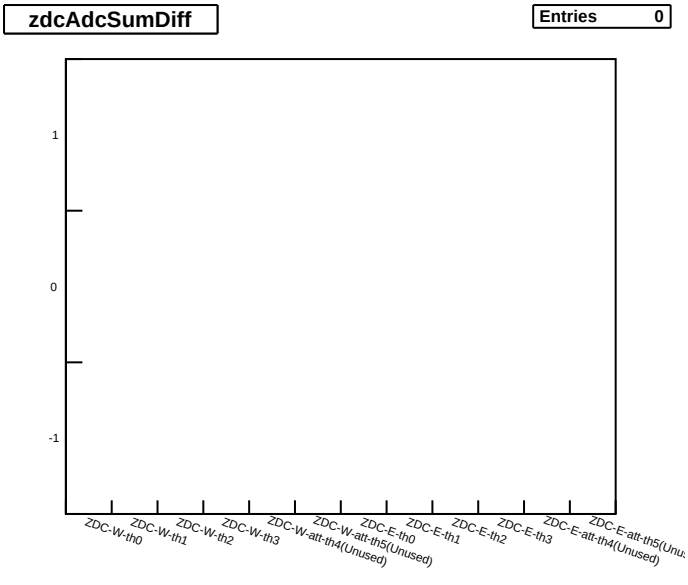
Entries 0
Data
Simu


zdcAdcSum
Entries 5529024
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu


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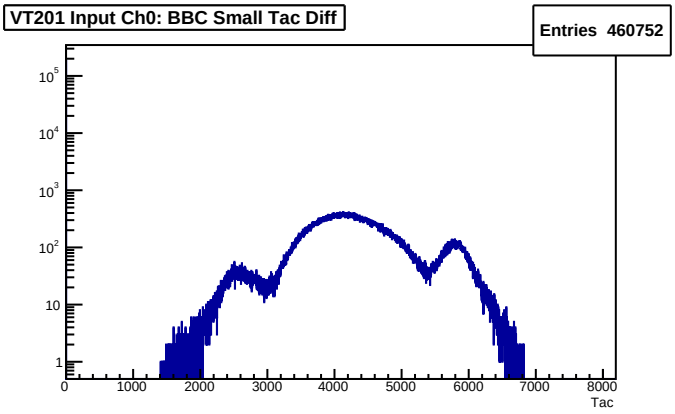
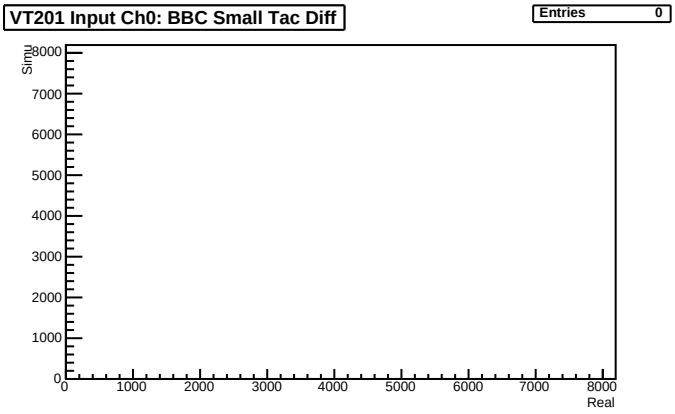
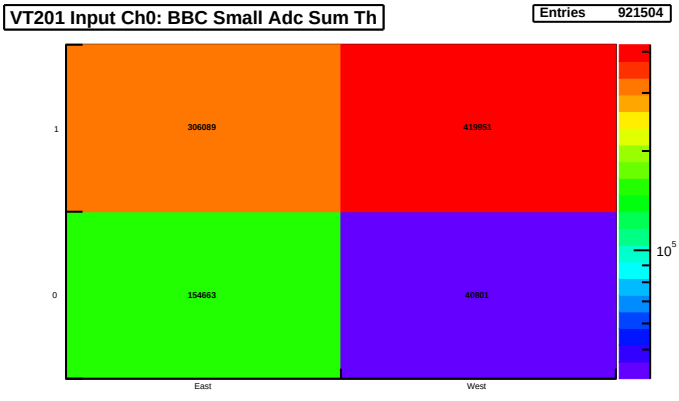
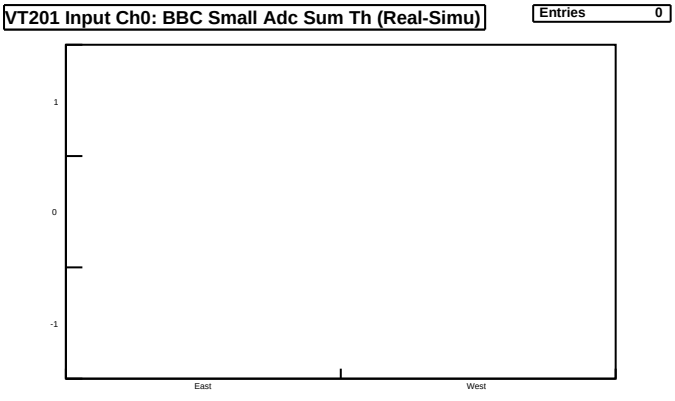
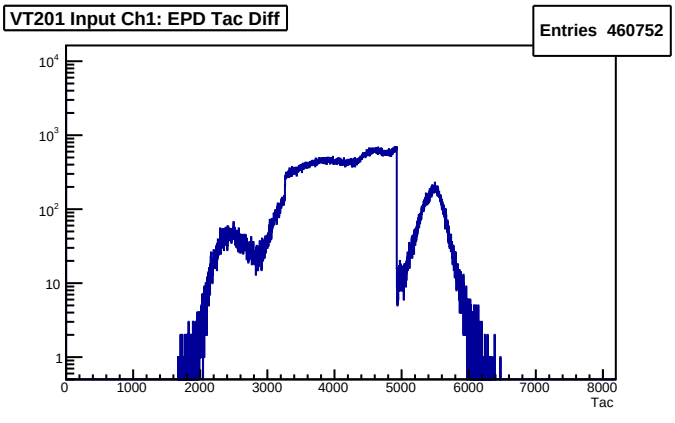
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

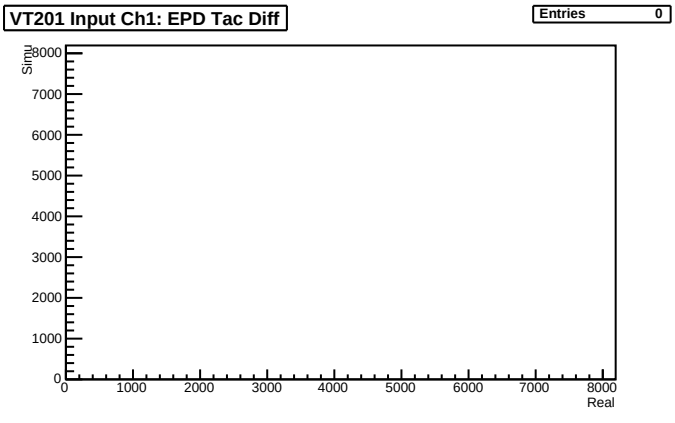

VT201 Input Ch0: BBC Small Tac Diff
Entries 460752
Tac

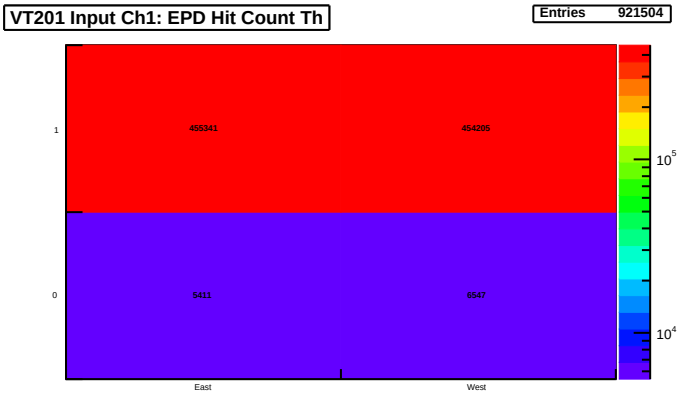

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

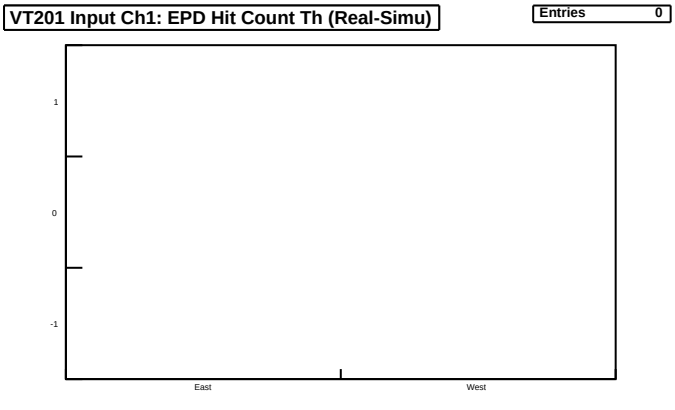

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 921504
306089
419951
154663
40801
East
West

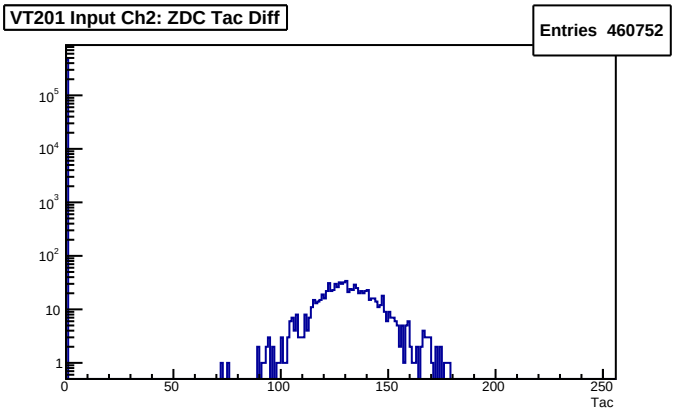

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

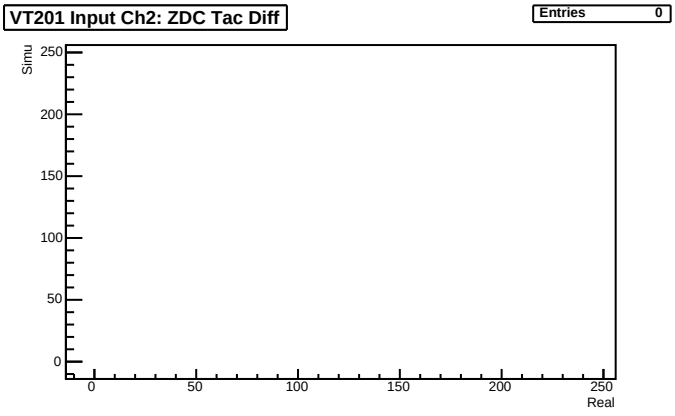

VT201 Input Ch1: EPD Tac Diff
Entries 460752
Tac

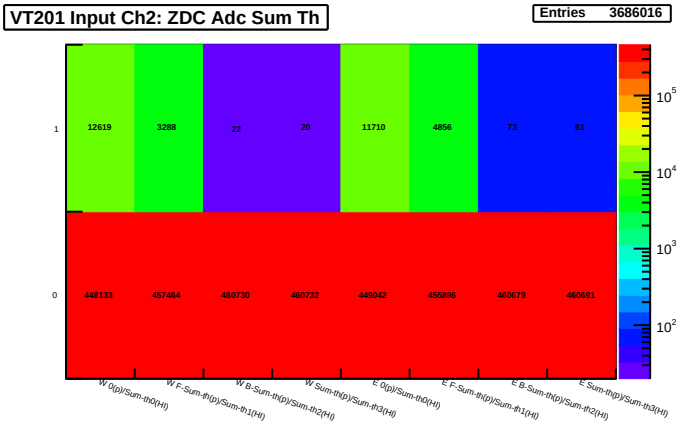

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

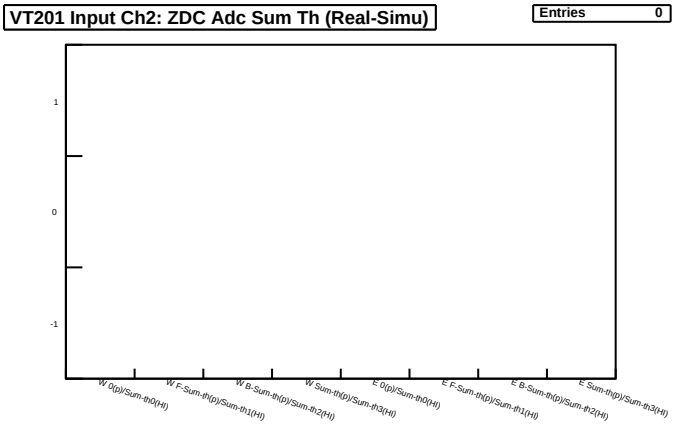

VT201 Input Ch1: EPD Hit Count Th
Entries 921504
455341
454205
5411
6547
East
West

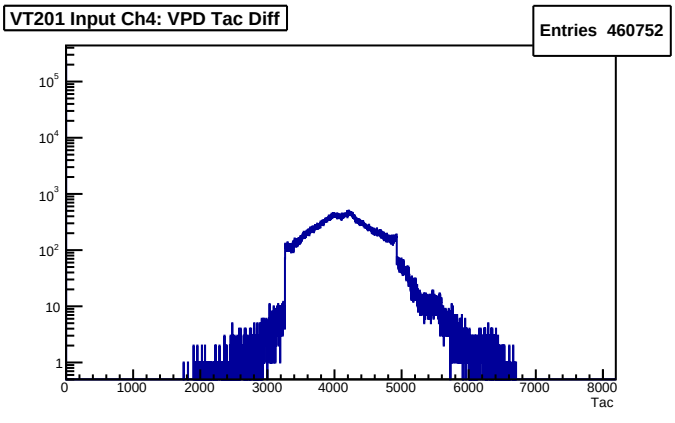

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

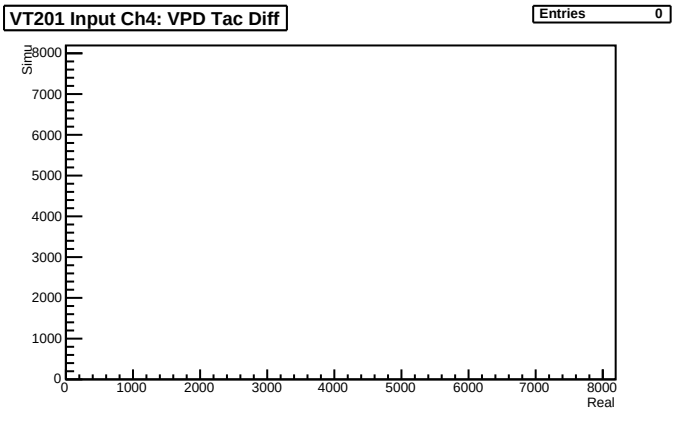

VT201 Input Ch2: ZDC Tac Diff
Entries 460752
Tac

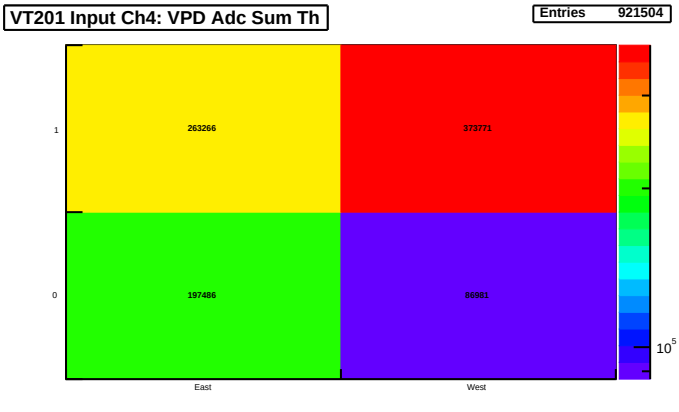

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

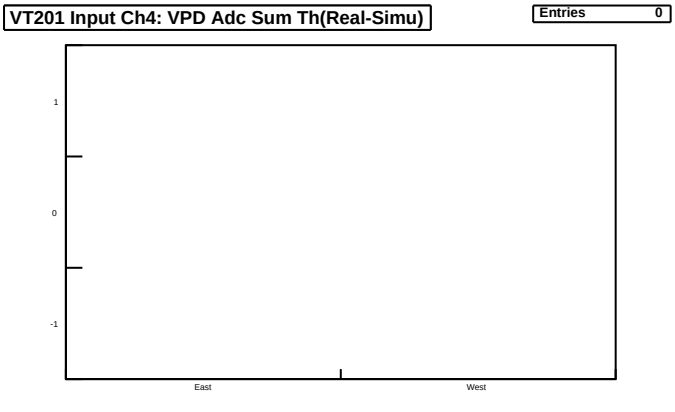

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3686016
12619
3288
22
20
11710
4856
73
61
448133
457464
460730
460732
449042
455896
460679
460691
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

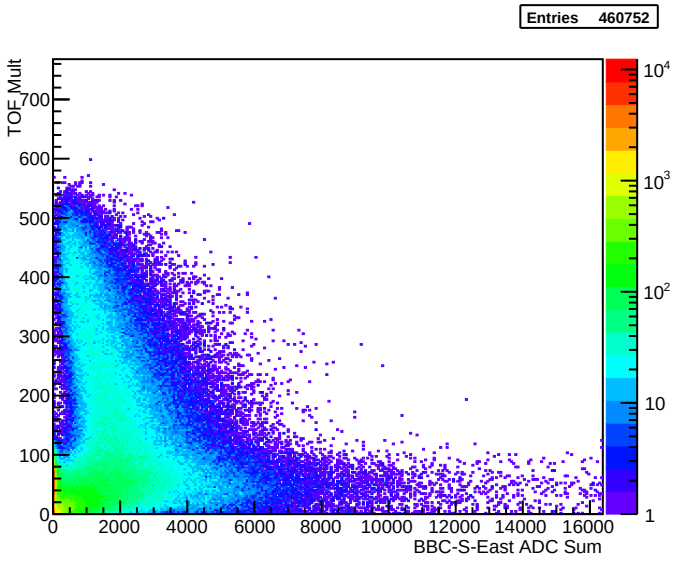

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

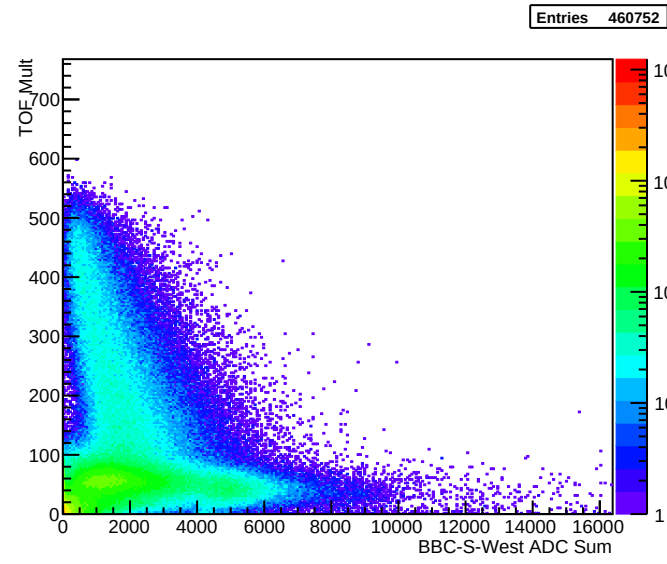

VT201 Input Ch4: VPD Tac Diff
Entries 460752
Tac

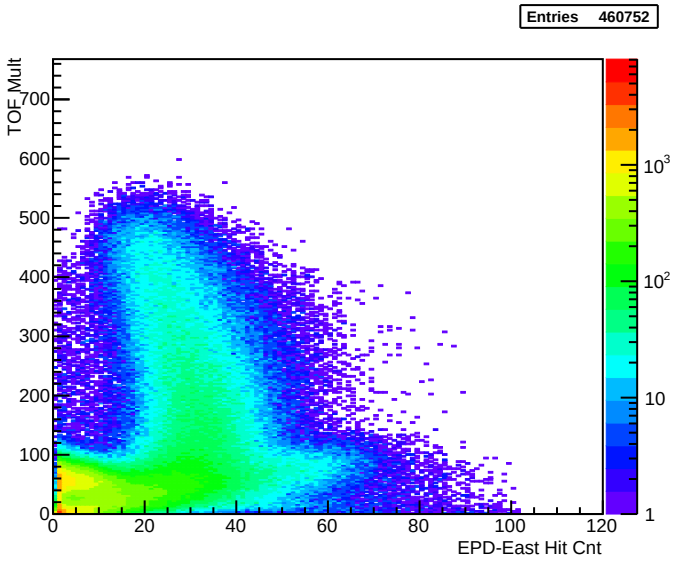

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

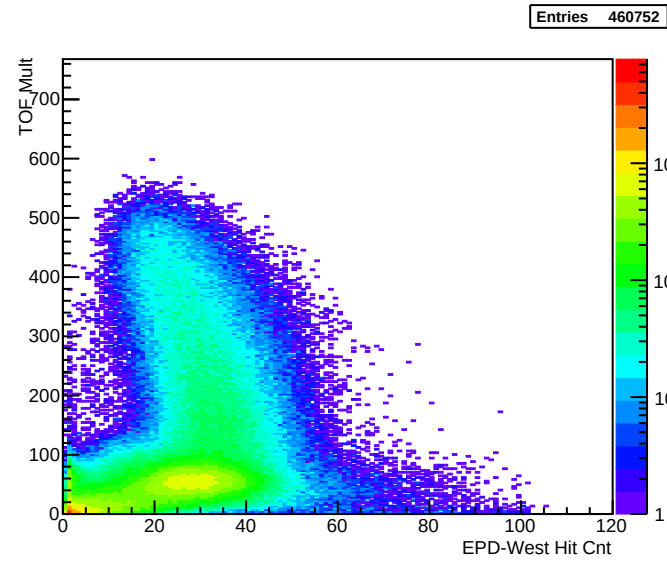

VT201 Input Ch4: VPD Adc Sum Th
Entries 921504
263266
373771
197486
86981
East
West

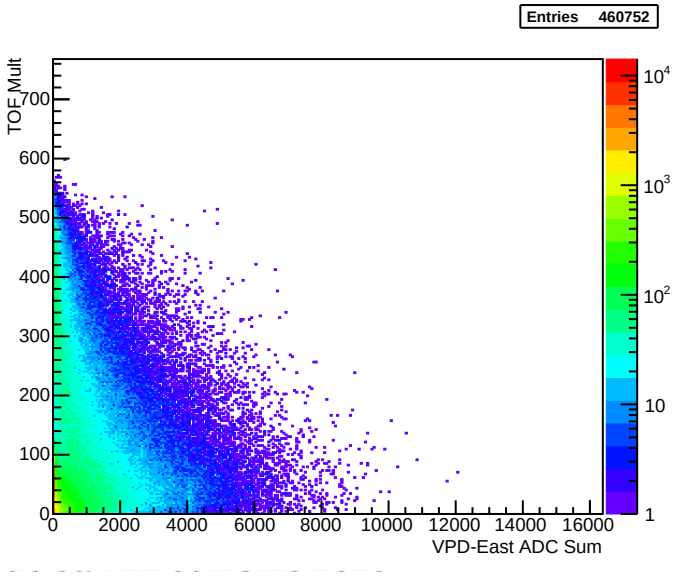

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

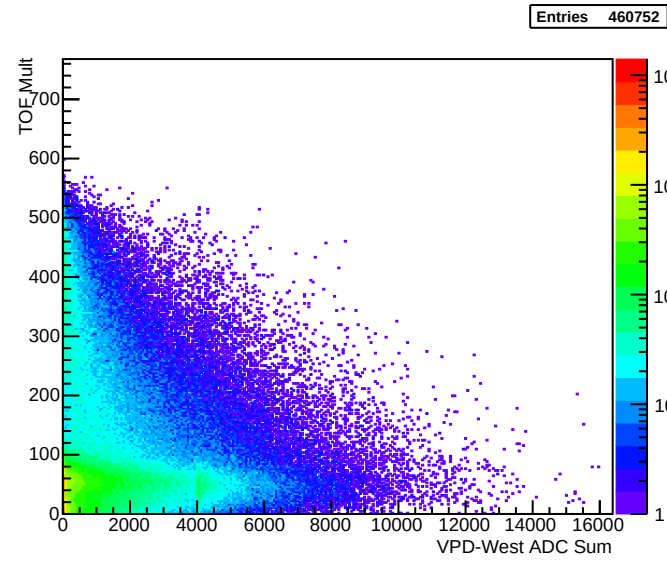

Entries 460752
TOF_Mult
BBC-S-East ADC Sum

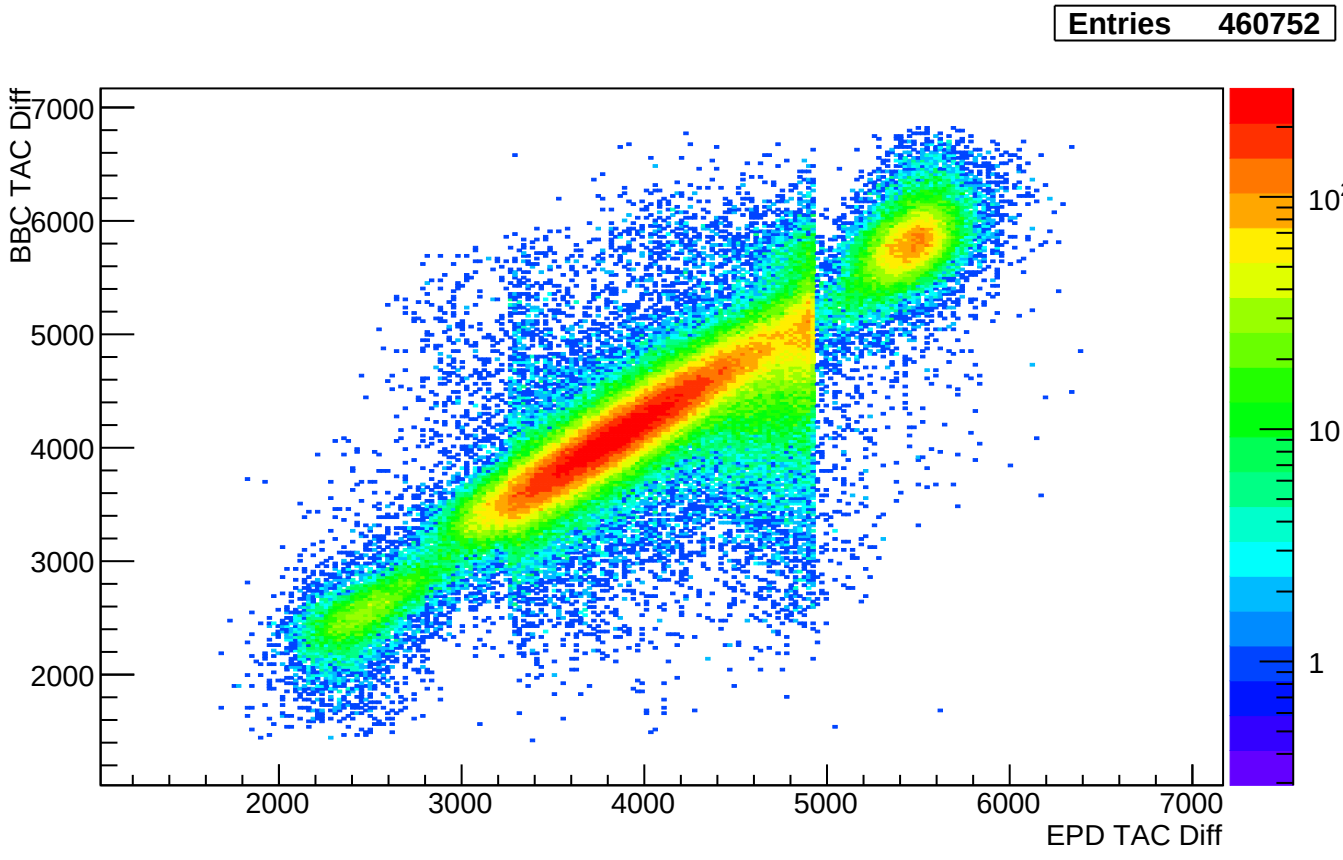

Entries 460752
TOF_Mult
BBC-S-West ADC Sum

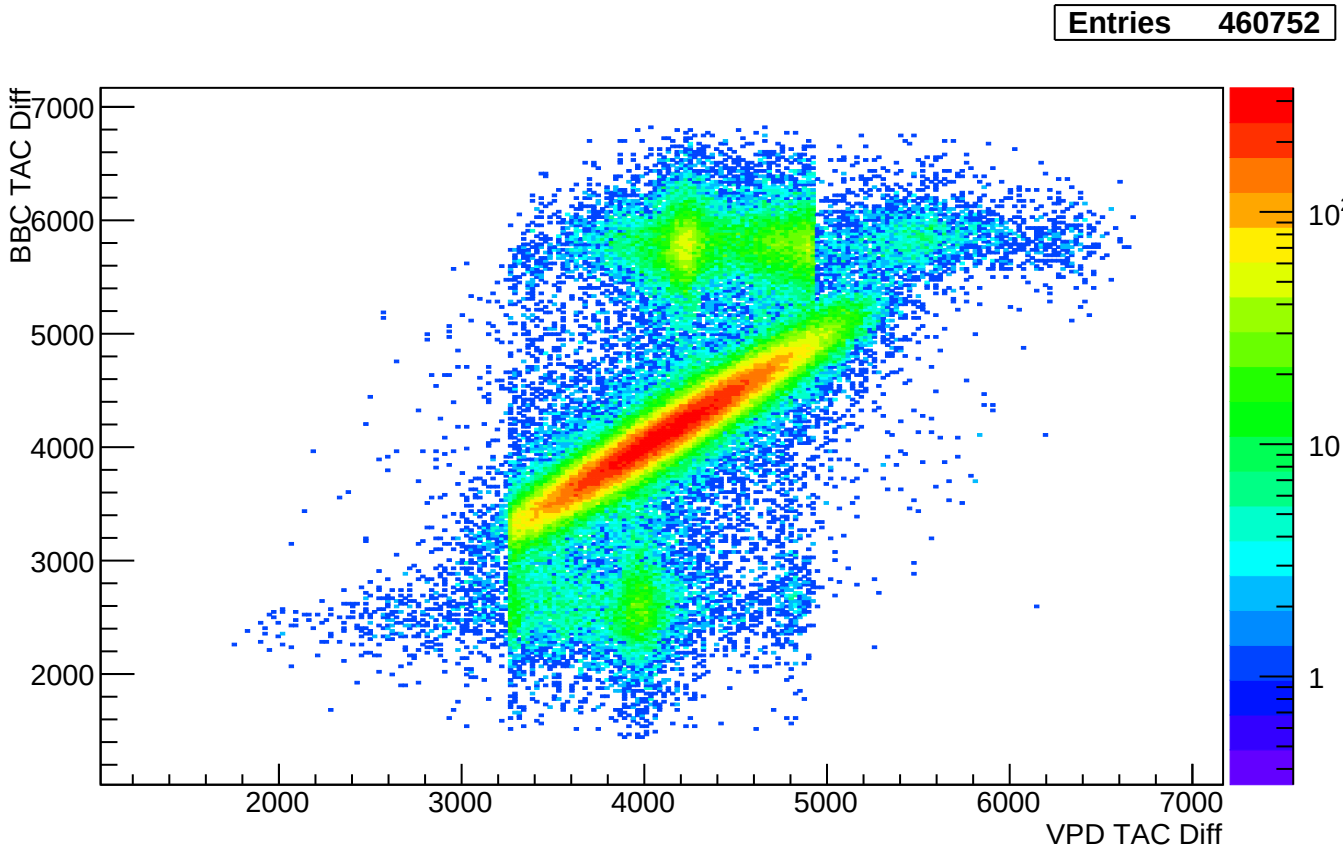

Entries 460752
TOF_Mult
EPD-East Hit Cnt

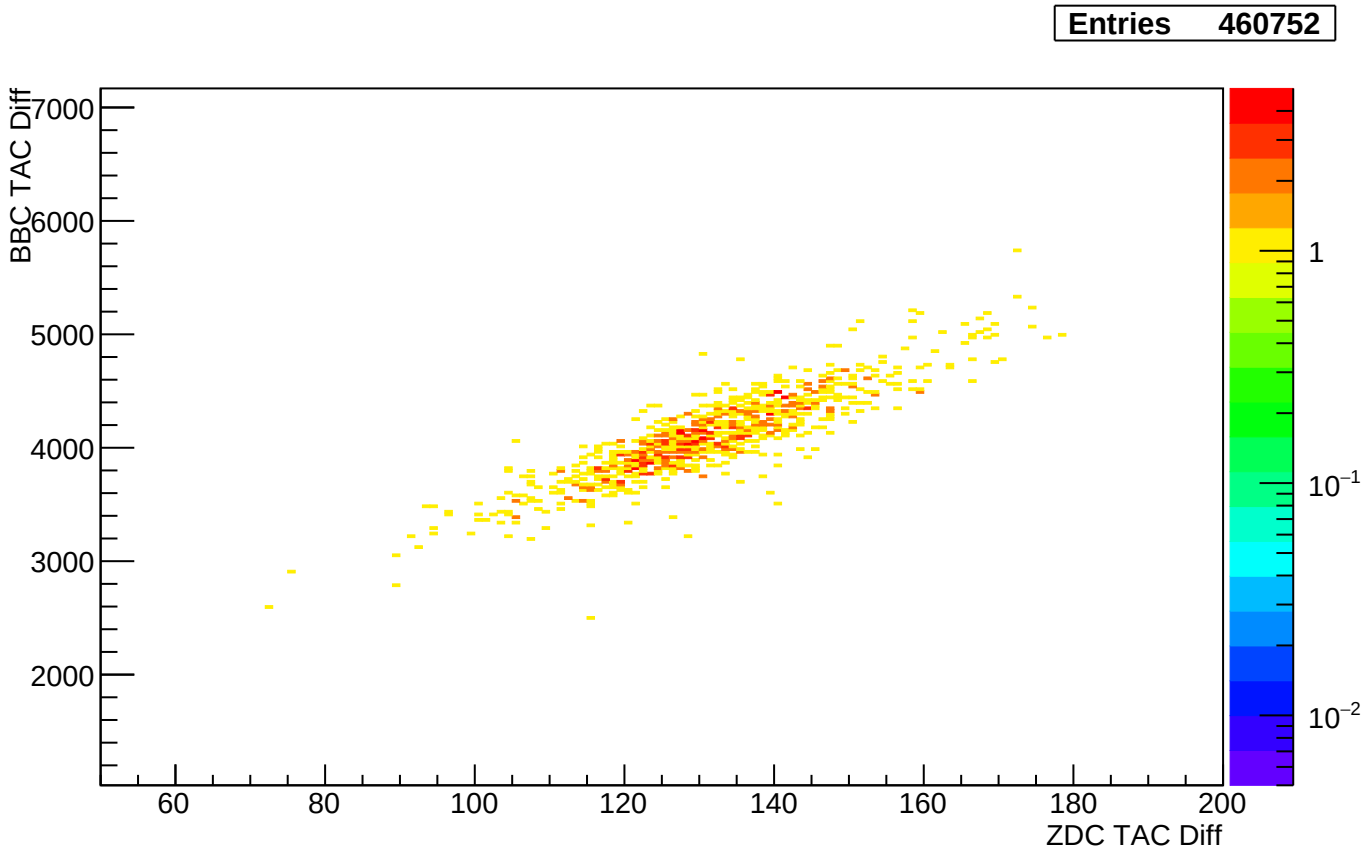

Entries 460752
TOF_Mult
EPD-West Hit Cnt

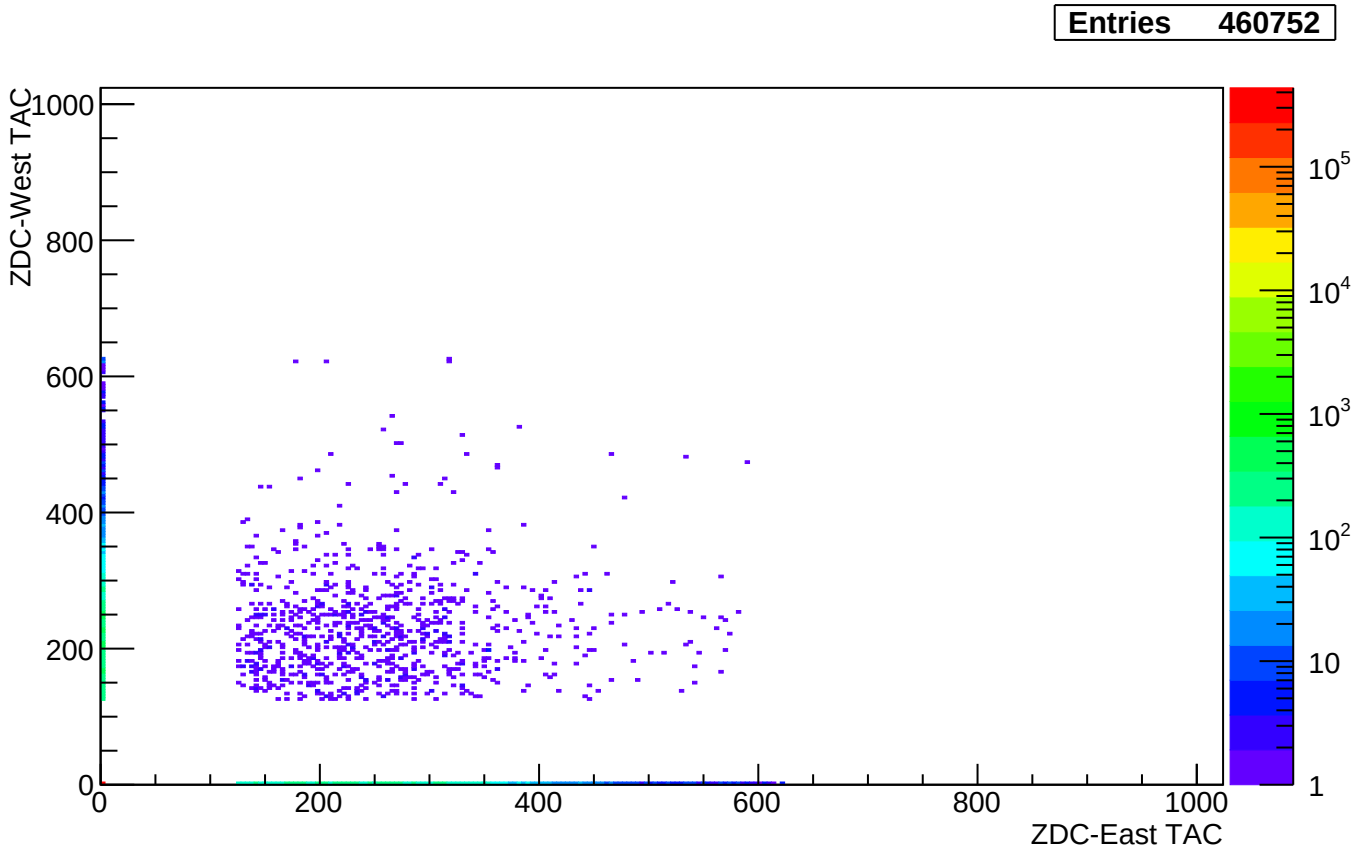

Entries 460752
TOF_Mult
VPD-East ADC Sum

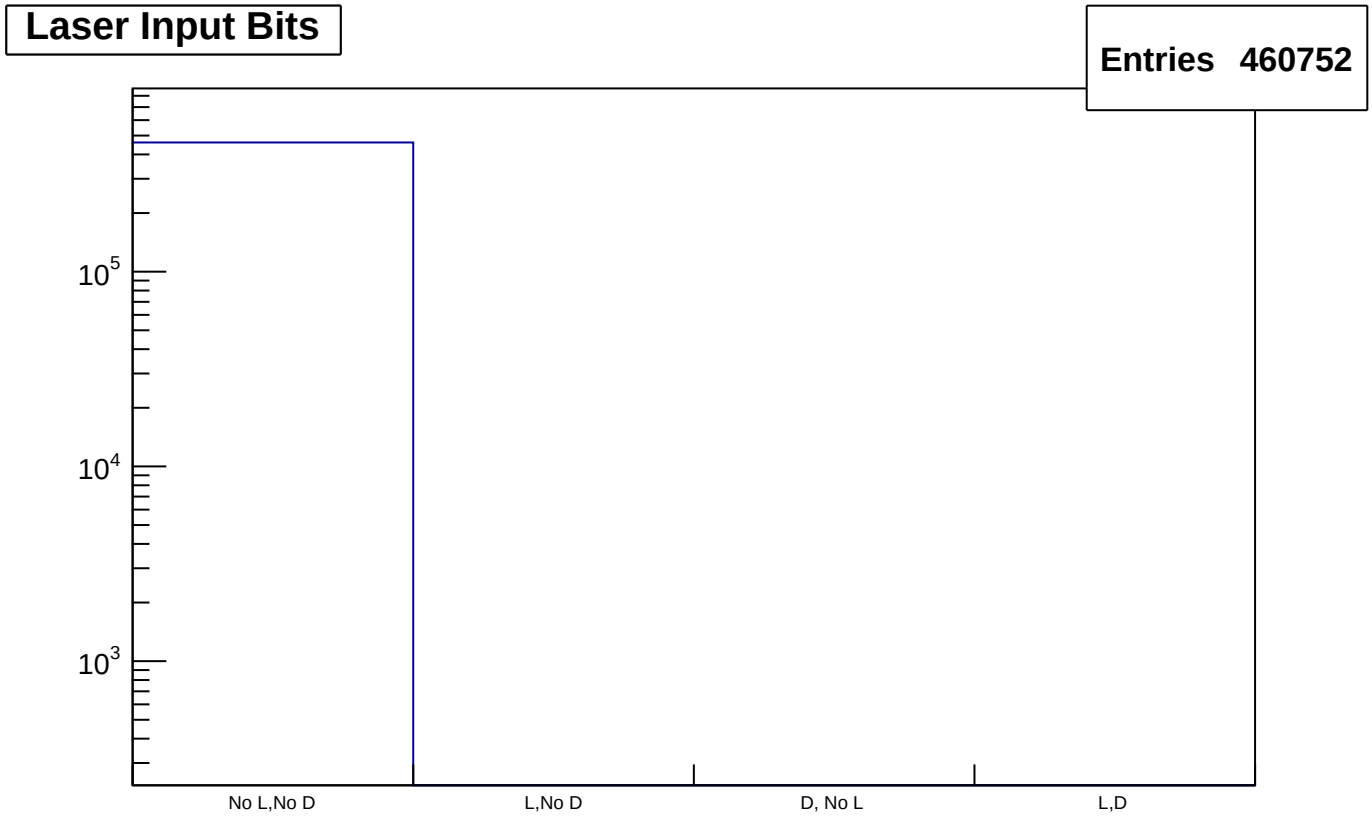

Entries 460752
TOF_Mult
VPD-West ADC Sum

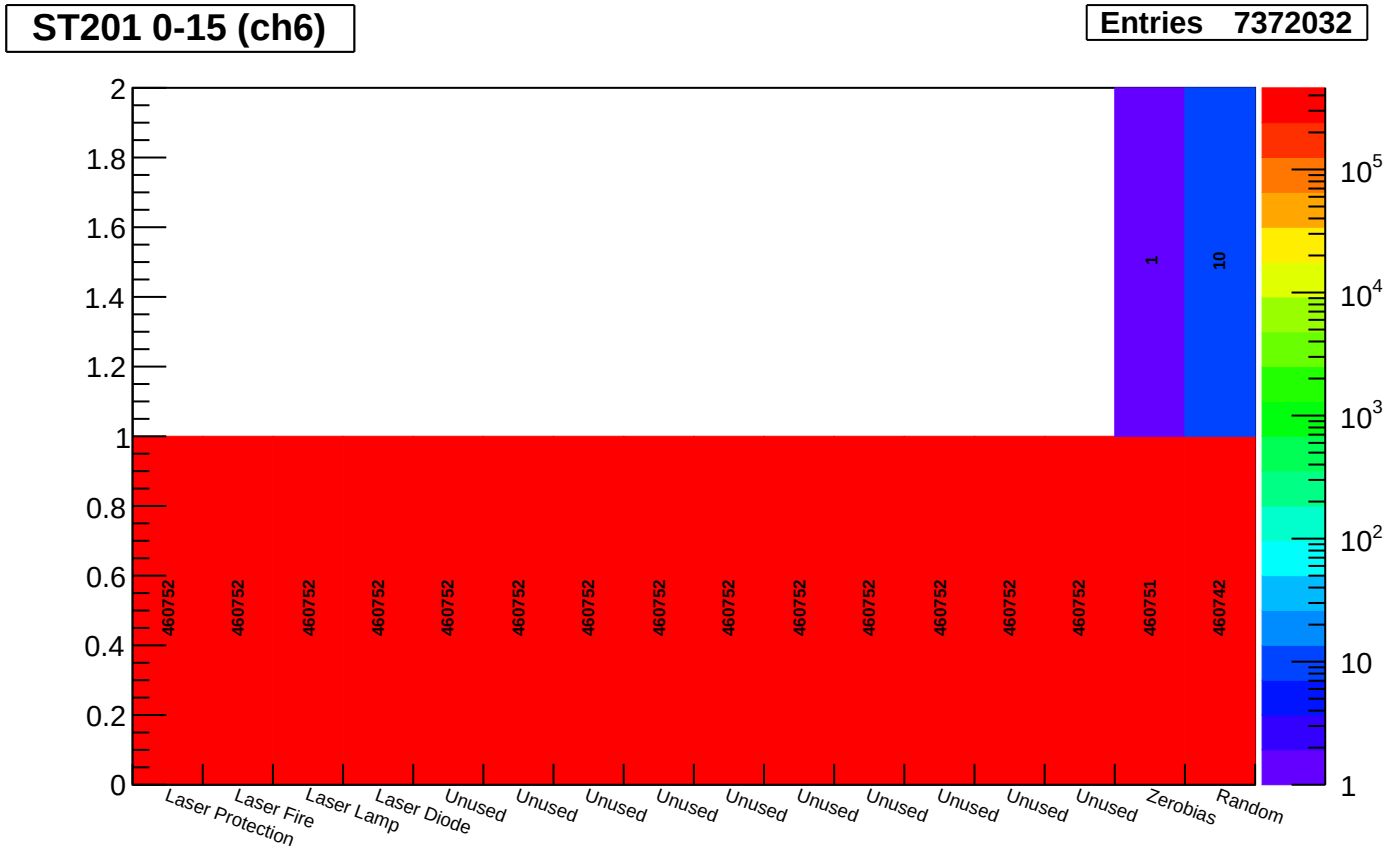

Entries 460752
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
$10^2$
10
1

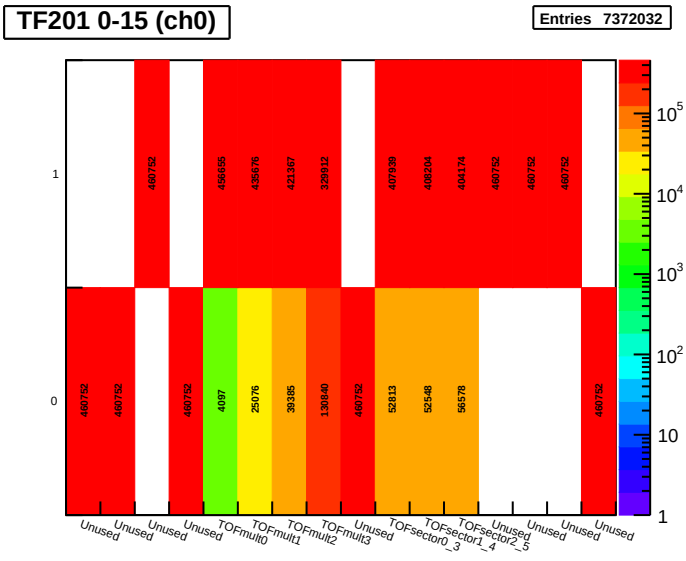

Entries 460752
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
$10^2$
10
1

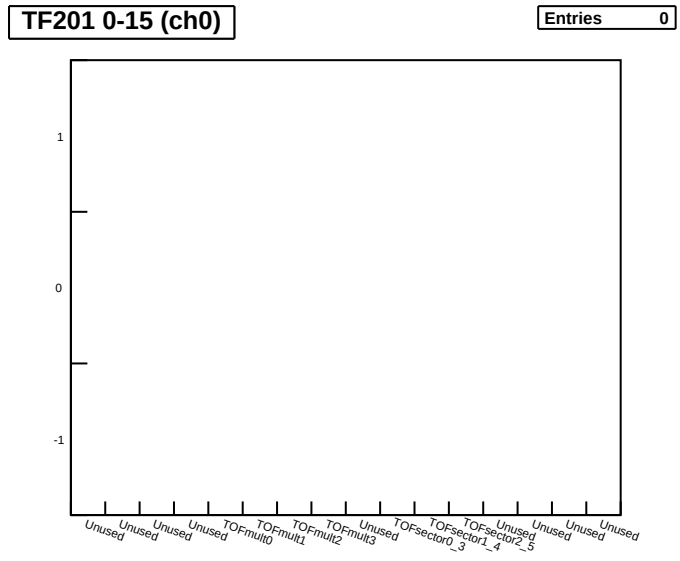

Entries 460752
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
$10^{-1}$
$10^{-2}$

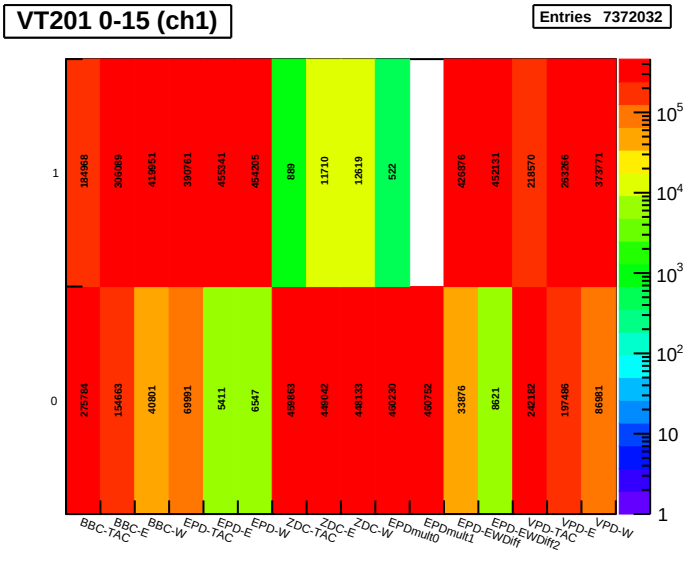

Entries 460752
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^5$
$10^4$
$10^3$
$10^2$
10
1

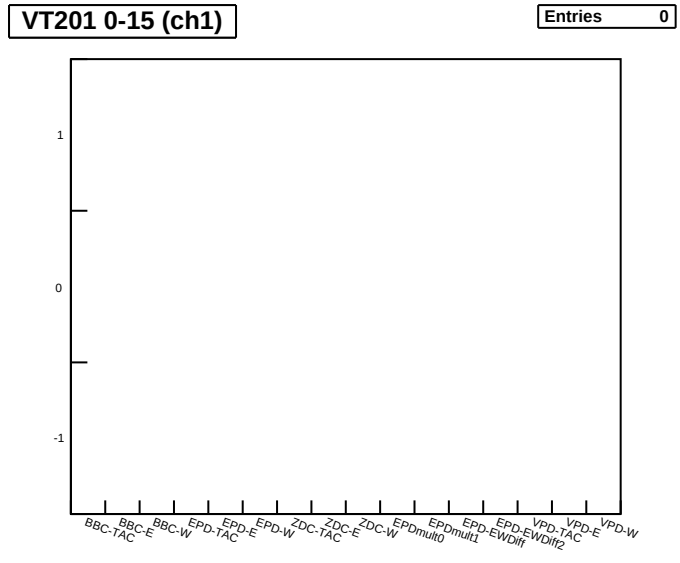

Laser Input Bits
Entries 460752
$10^5$
$10^4$
$10^3$
No L,No D
L,No D
D, No L
L,D

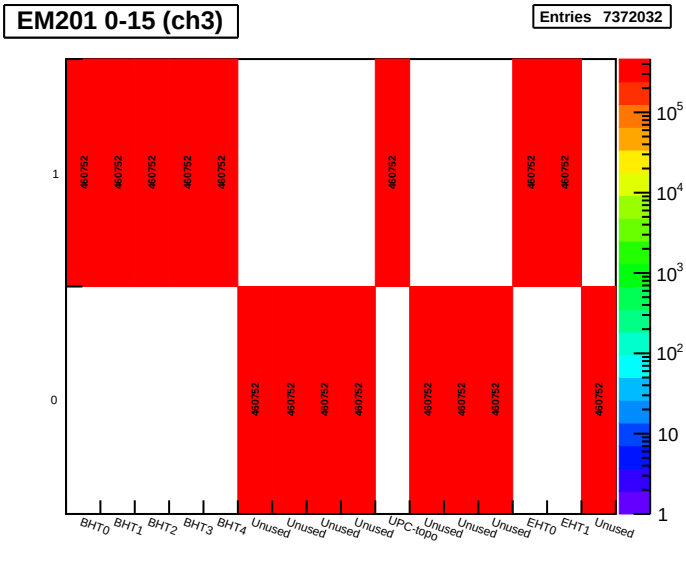

ST201 0-15 (ch6)
Entries 7372032
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460751
460742
1
10
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
$10^5$
$10^4$
$10^3$
$10^2$
10
1


TF201 0-15 (ch0)
Entries 7372032
1
0
460752
456655
435676
421367
329912
407939
408204
404174
460752
460752
460752
460752
460752
460752
460752
4097
25076
39385
130840
460752
52813
52548
56578
460752
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 7372032
1
0
184968
306089
419951
390761
455341
454205
889
11710
12619
522
426876
452131
218570
263266
373771
275784
154663
40801
69991
5411
6547
459863
449042
448133
460230
460752
33876
8621
242182
197486
86981
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 7372032
1
0
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
460752
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
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EHT0
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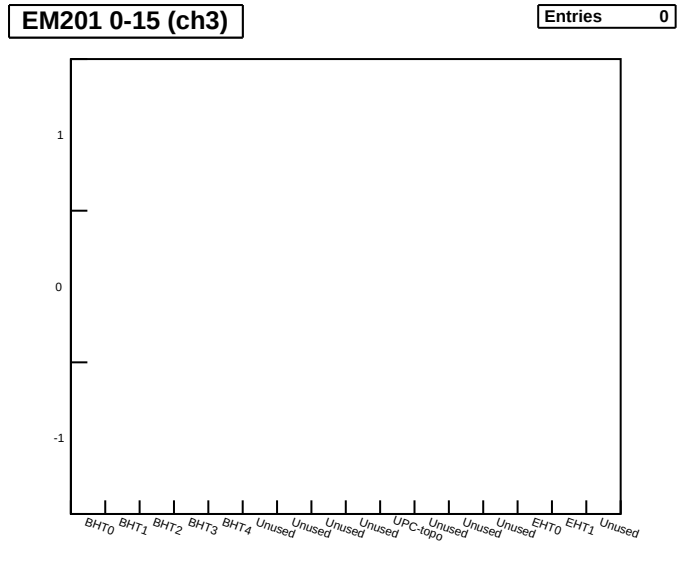
$10^3$
$10^2$
10
1


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