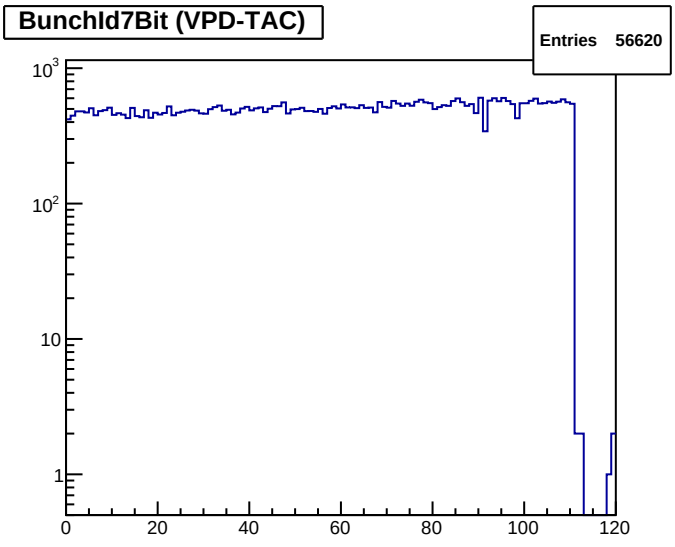
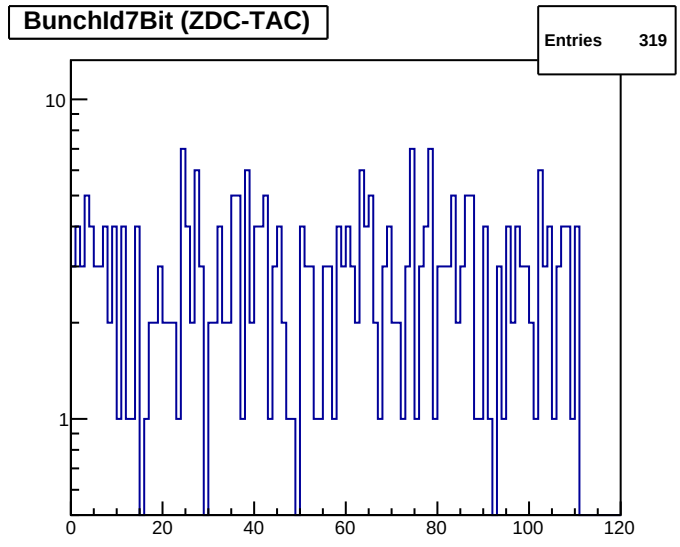
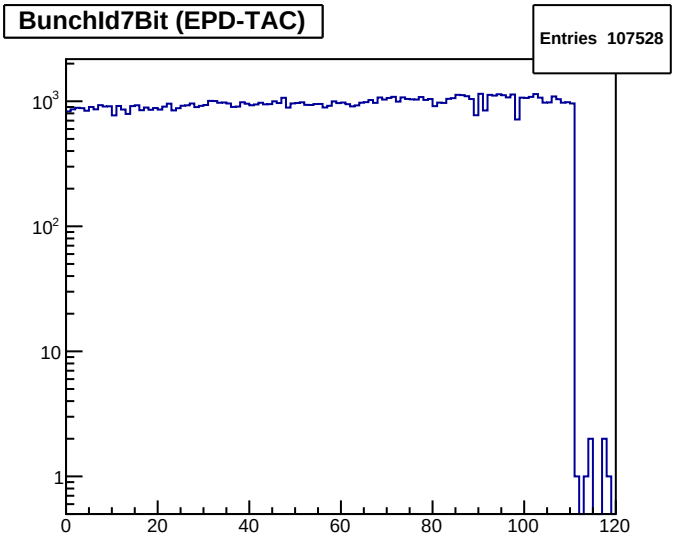
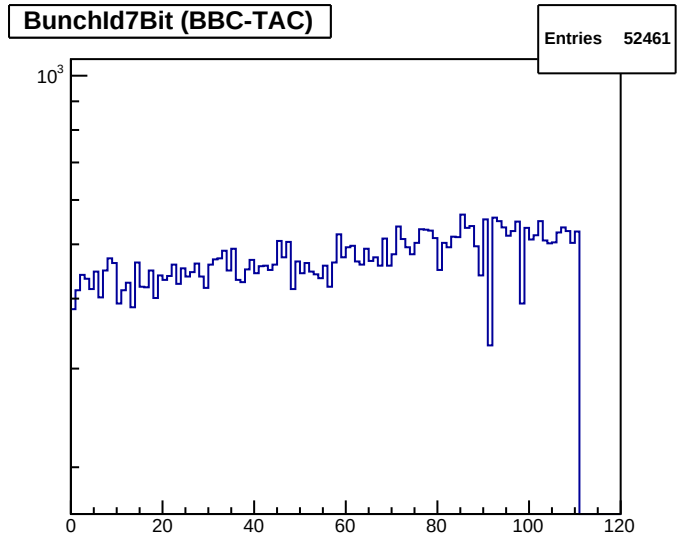
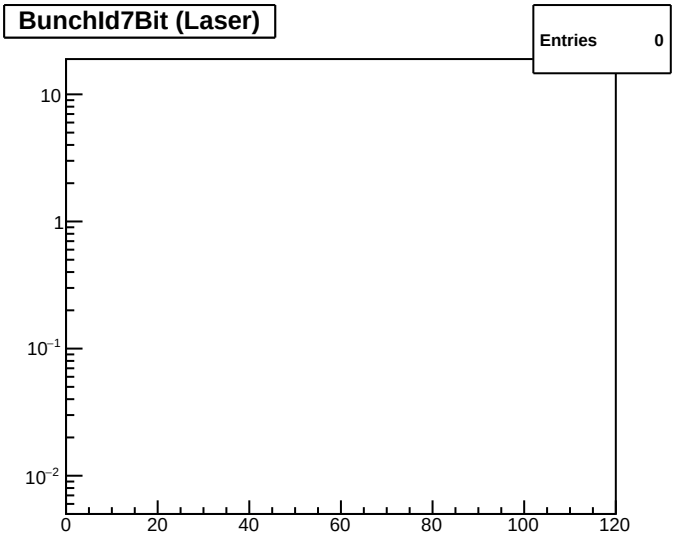
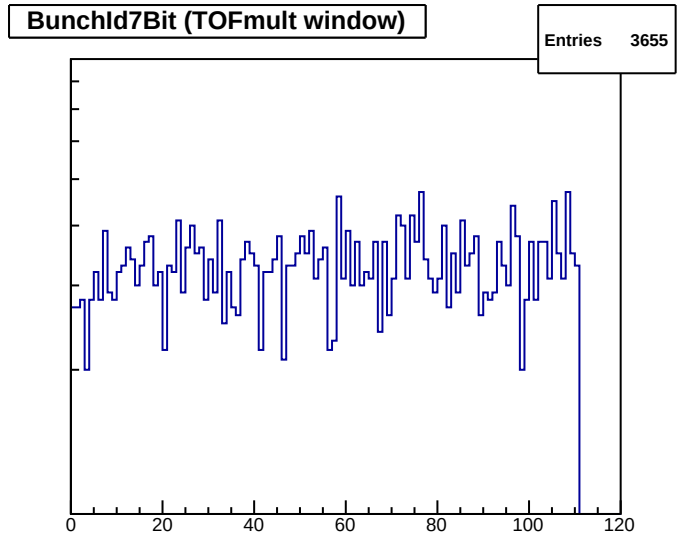

BunchId7Bit (VPD-TAC)
Entries 56620
$10^3$
$10^2$
10
1
0
20
40
60
80
100
120

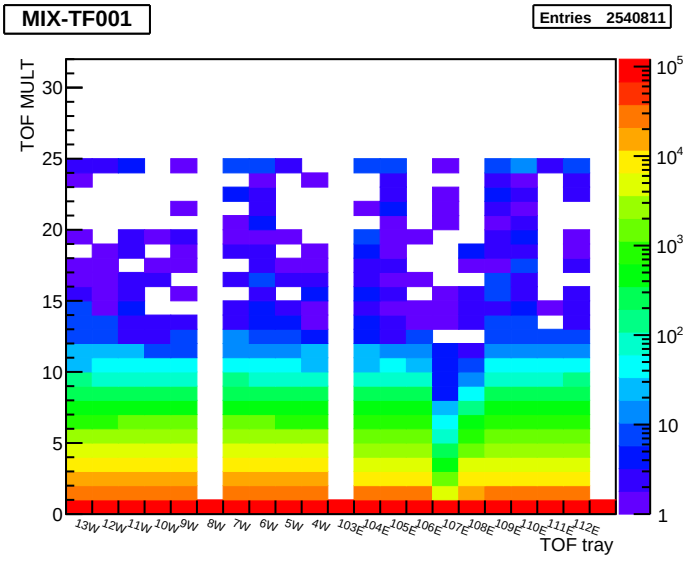

BunchId7Bit (ZDC-TAC)
Entries 319
10
1
0
20
40
60
80
100
120

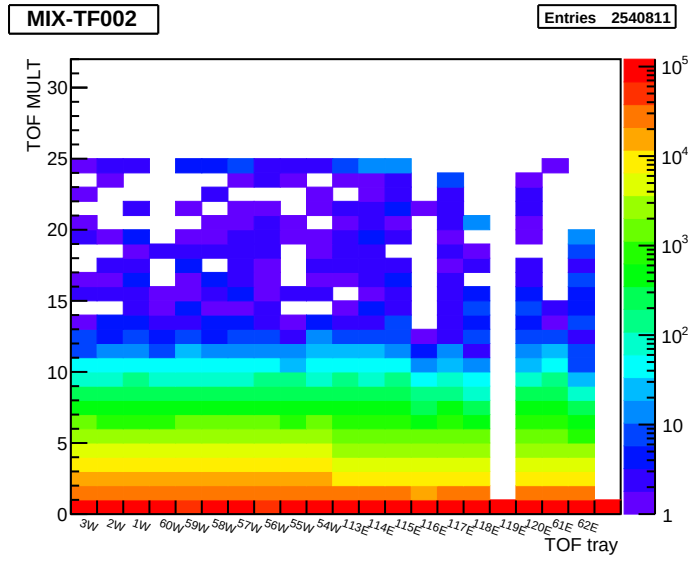

BunchId7Bit (EPD-TAC)
Entries 107528
$10^3$
$10^2$
10
1
0
20
40
60
80
100
120

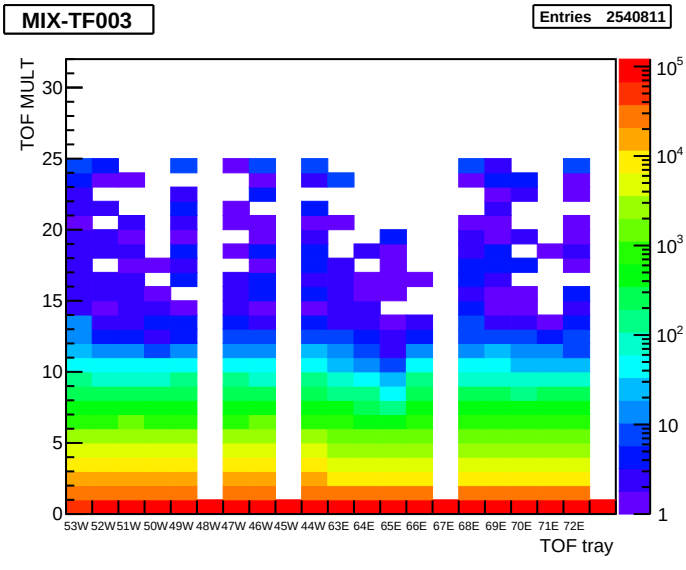

BunchId7Bit (BBC-TAC)
Entries 52461
$10^3$
0
20
40
60
80
100
120

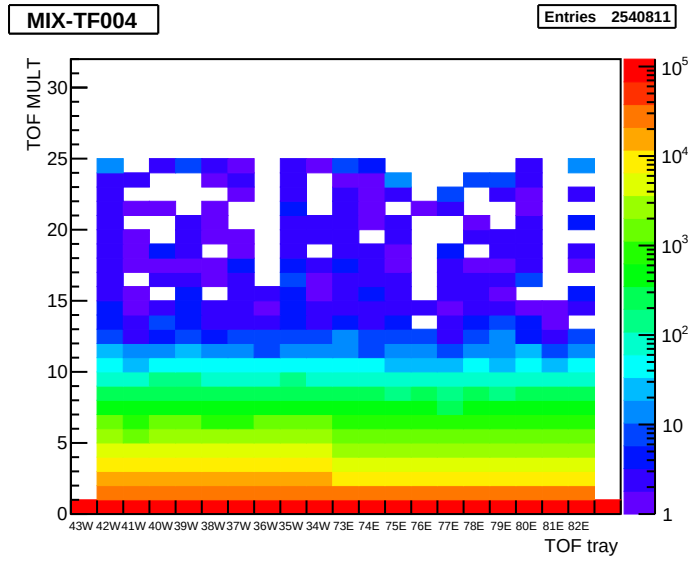

BunchId7Bit (Laser)
Entries 0
10
1
$10^{-1}$
$10^{-2}$
0
20
40
60
80
100
120

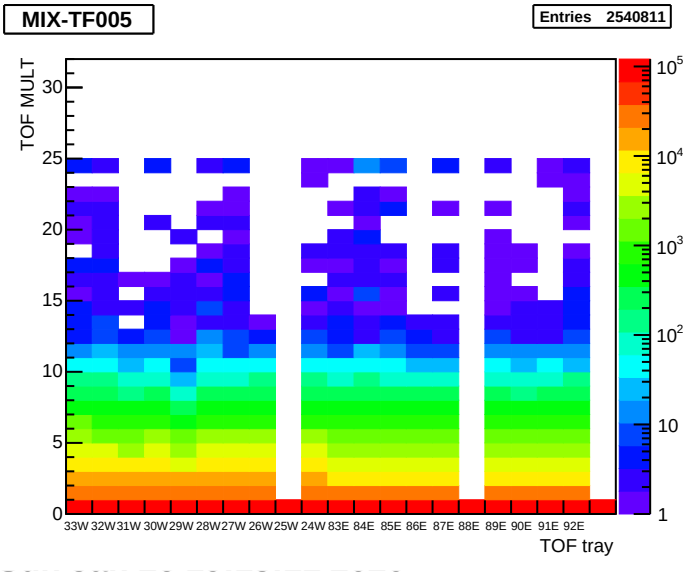

BunchId7Bit (TOFmult window)
Entries 3655
0
20
40
60
80
100
120

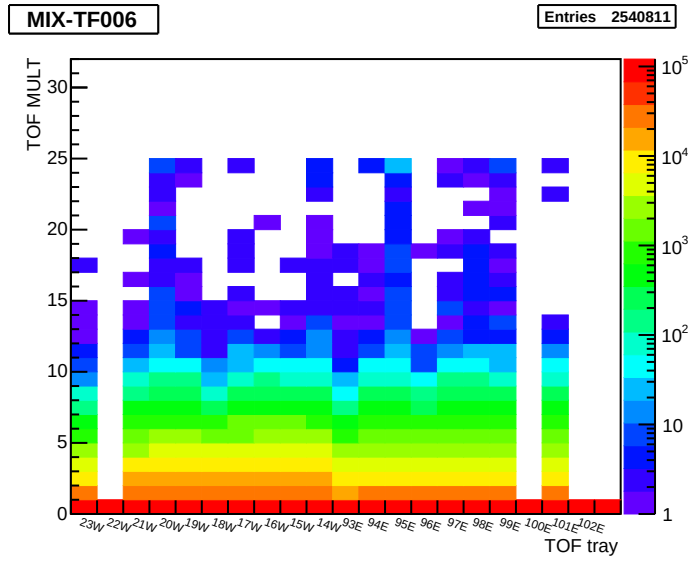

MIX-TF001
Entries 2540811
TOF MULT
TOF tray

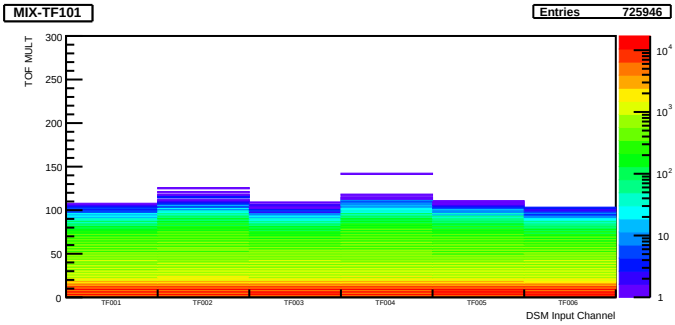

MIX-TF002
Entries 2540811
TOF MULT
TOF tray

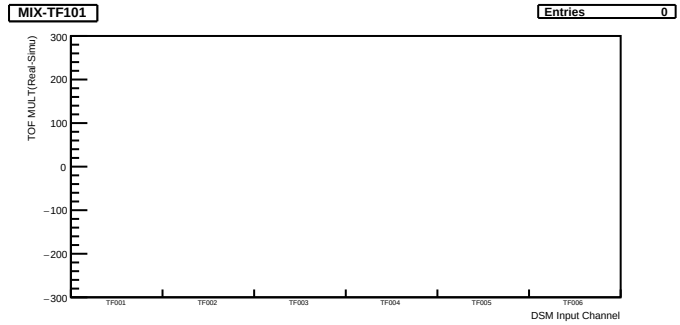

MIX-TF003
Entries 2540811
TOF MULT
TOF tray

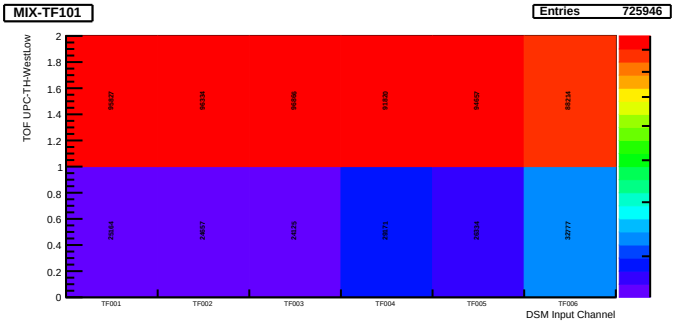

MIX-TF004
Entries 2540811
TOF MULT
TOF tray

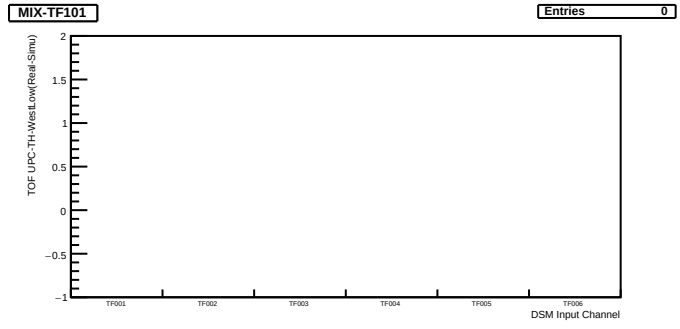

MIX-TF005
Entries 2540811
TOF MULT
TOF tray

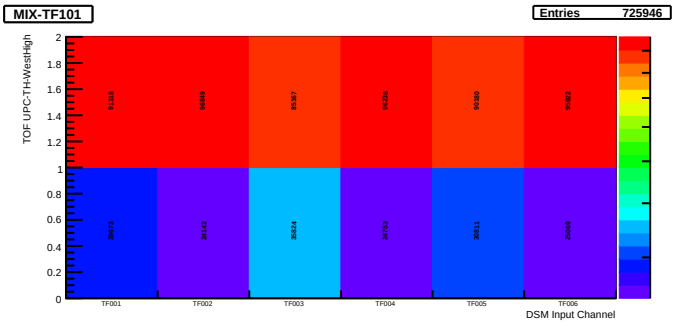

MIX-TF006
Entries 2540811
TOF MULT
TOF tray

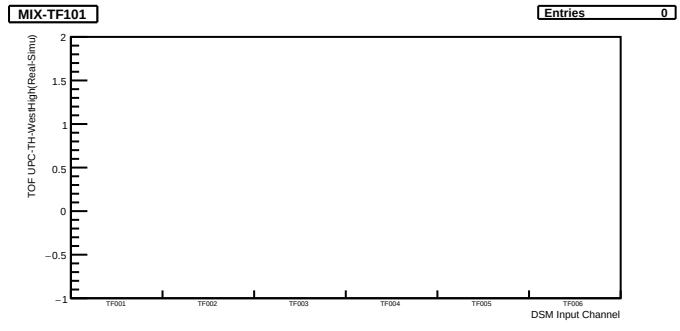

MIX-TF101
Entries 725946
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

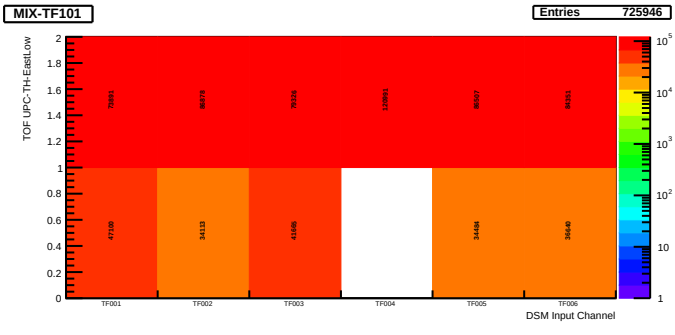

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

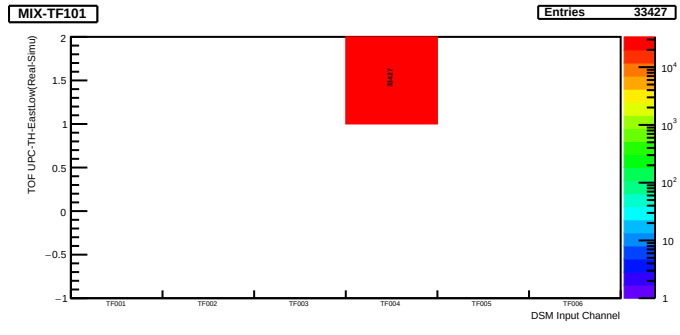

MIX-TF101
Entries 725946
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

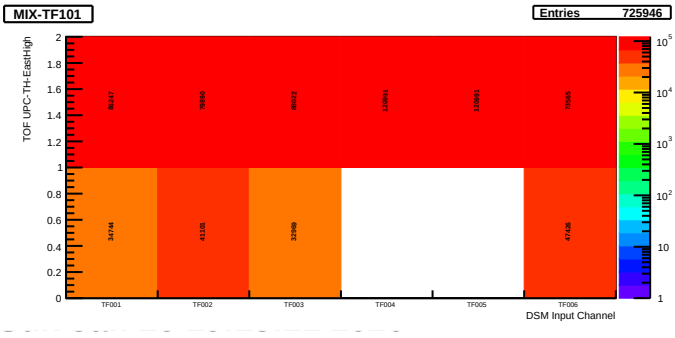

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

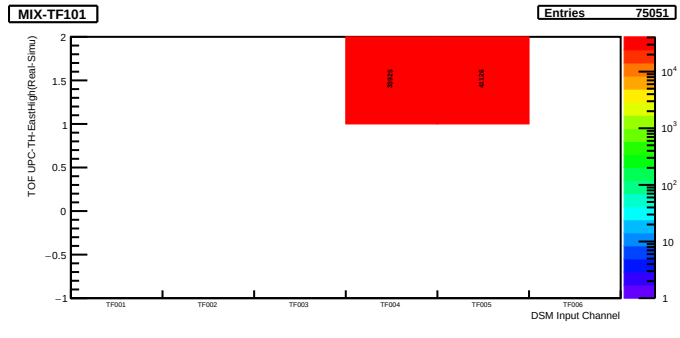

MIX-TF101
Entries 725946
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

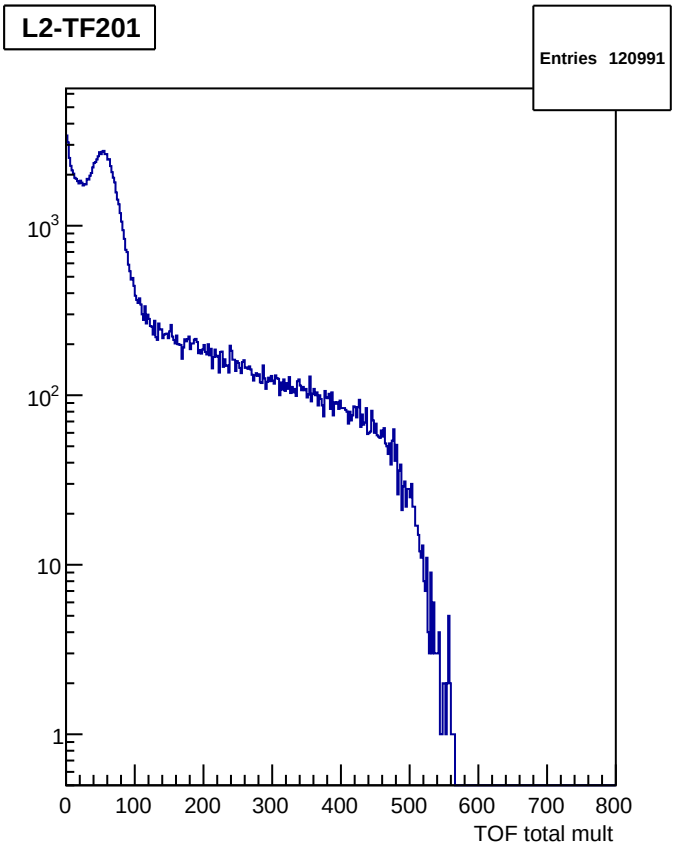

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

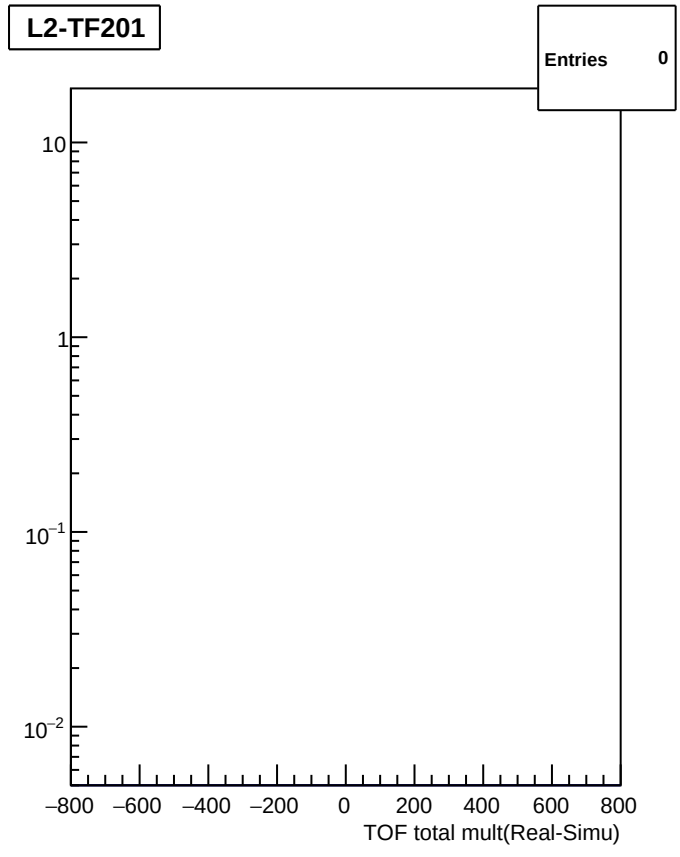

MIX-TF101
Entries 725946
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

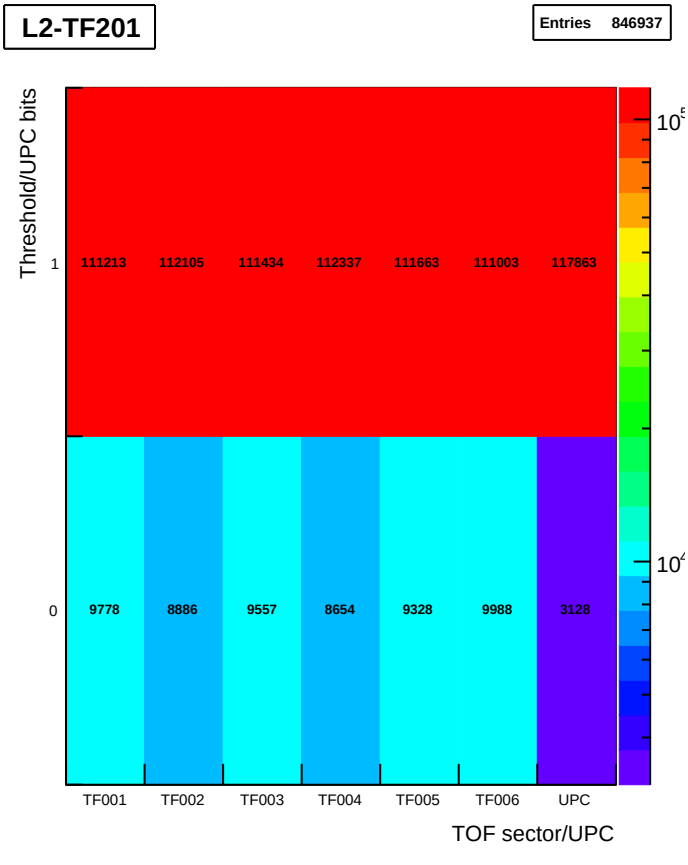

MIX-TF101
Entries 33427
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

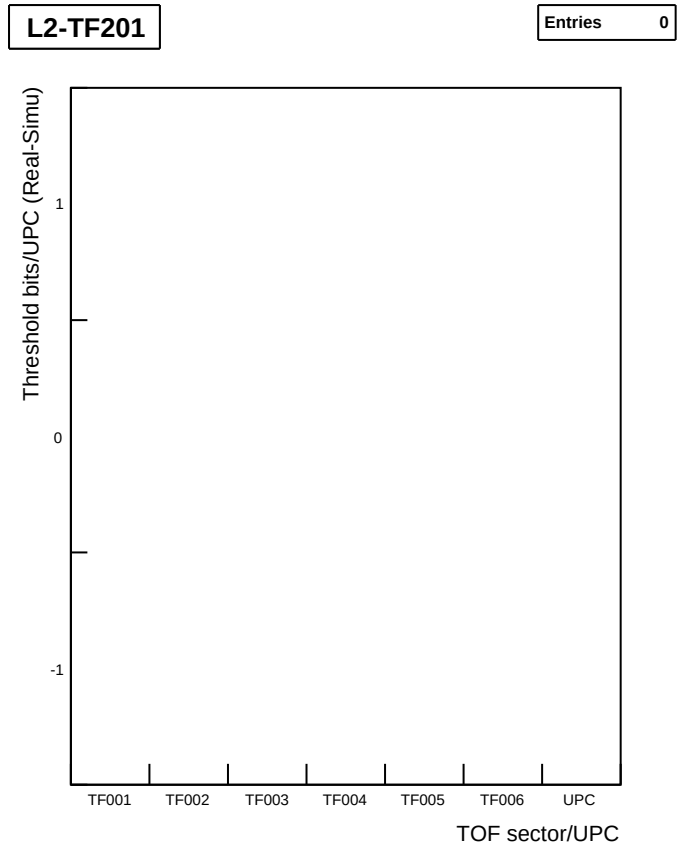

MIX-TF101
Entries 725946
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

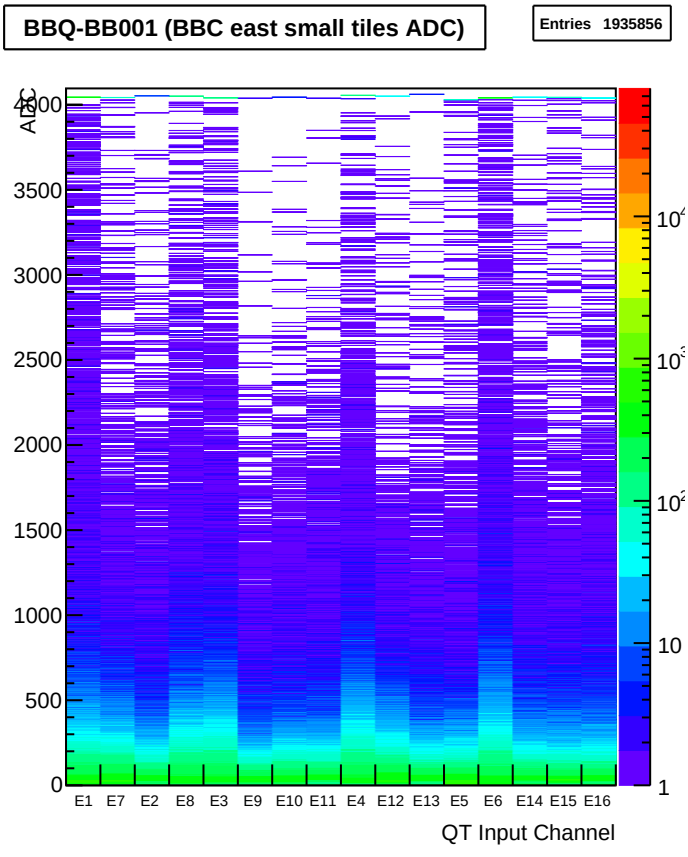

MIX-TF101
Entries 75051
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

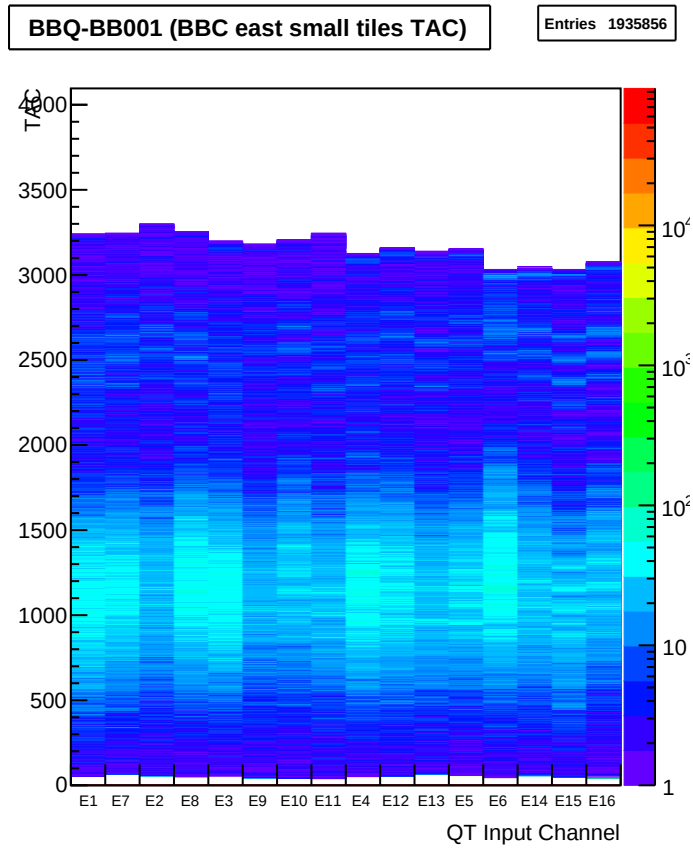

L2-TF201
Entries 120991
TOF total mult

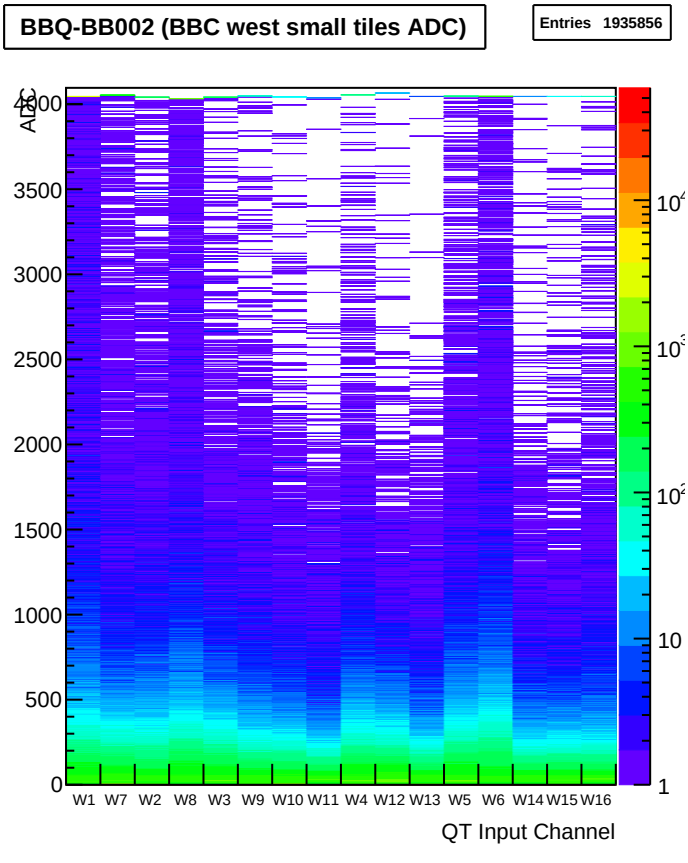

L2-TF201
Entries 0
TOF total mult(Real-Simu)

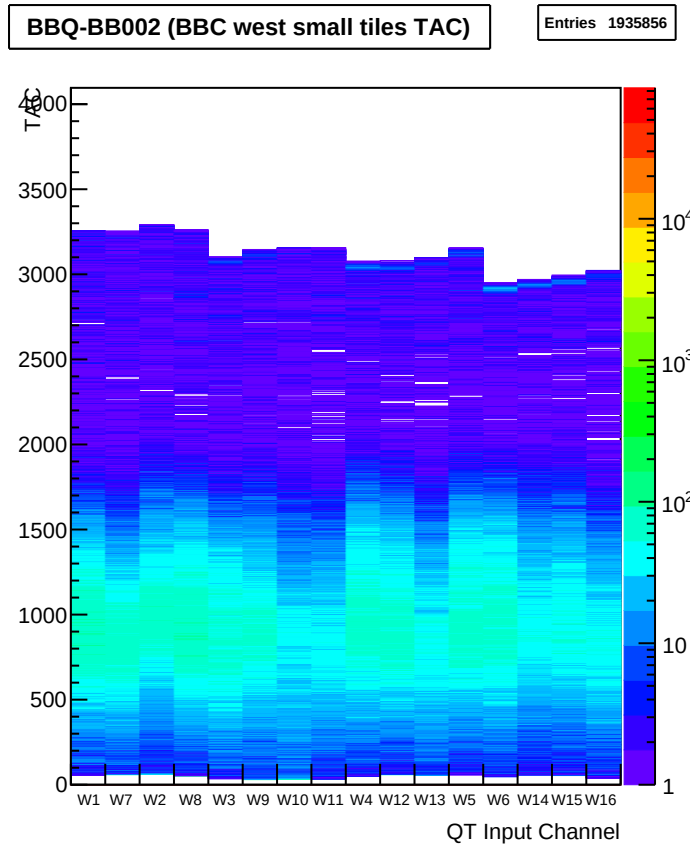

L2-TF201
Entries 846937
Threshold/UPC bits
111213
112105
111434
112337
111663
111003
117863
9778
8886
9557
8654
9328
9988
3128
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

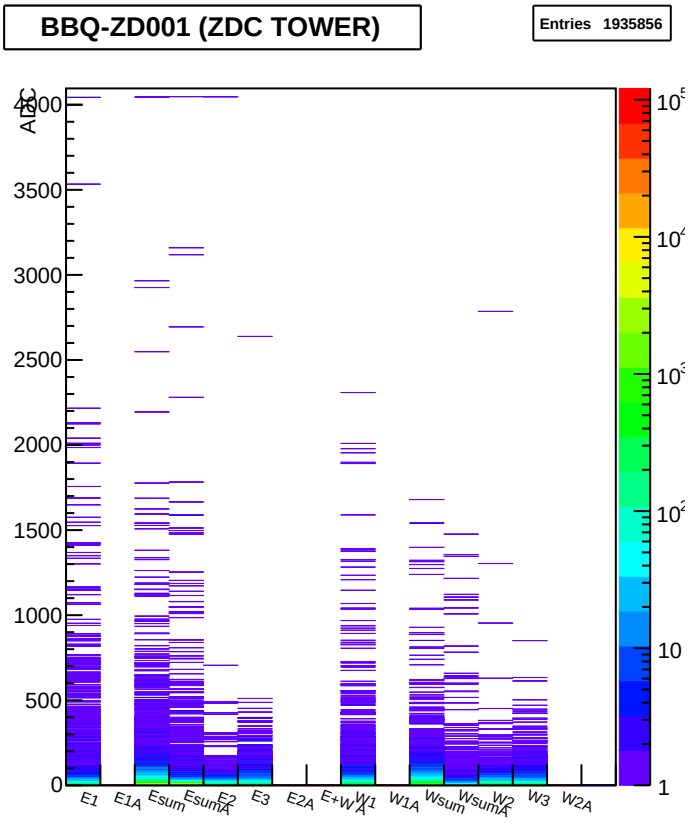

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

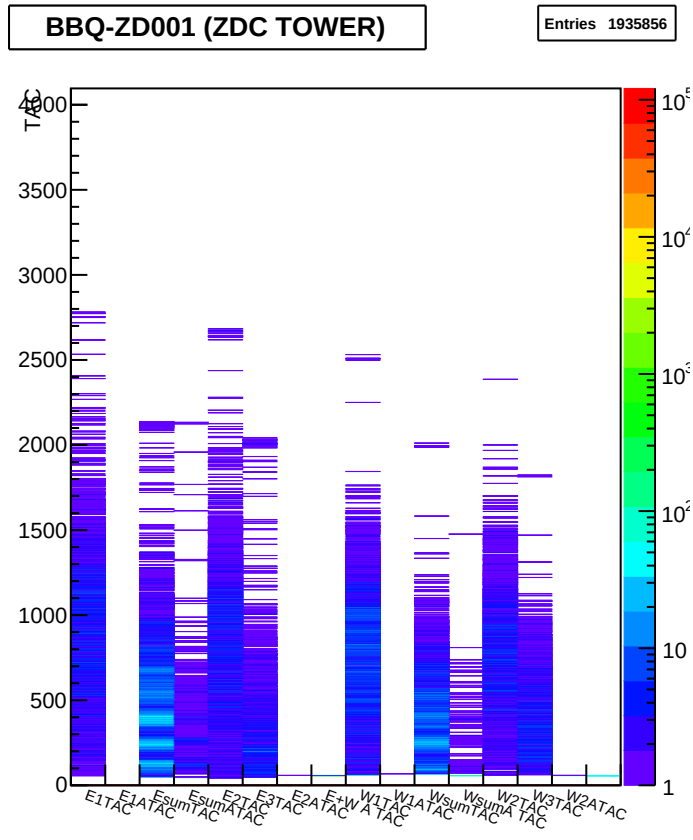

BBQ-BB001 (BBC east small tiles ADC)
Entries 1935856
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

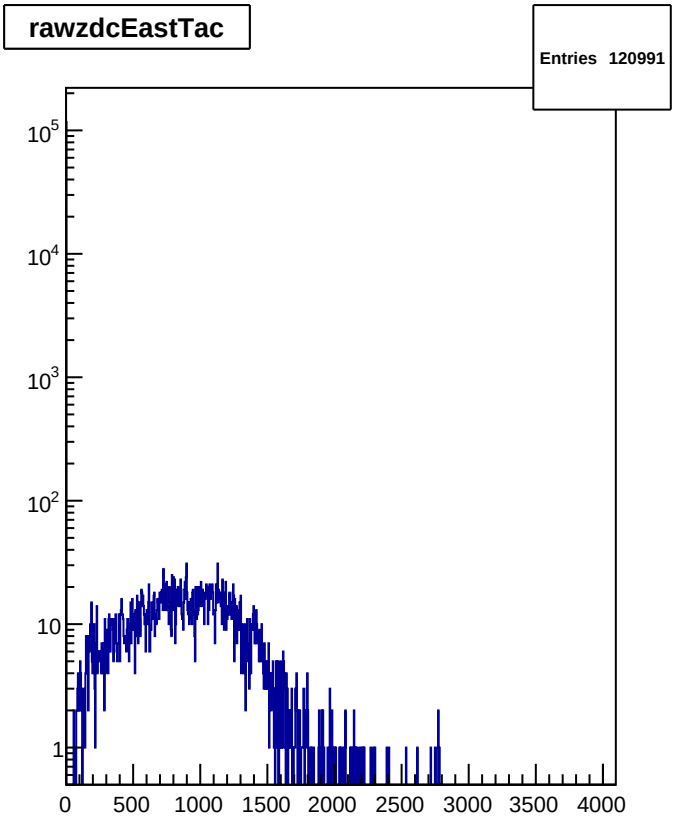

BBQ-BB001 (BBC east small tiles TAC)
Entries 1935856
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

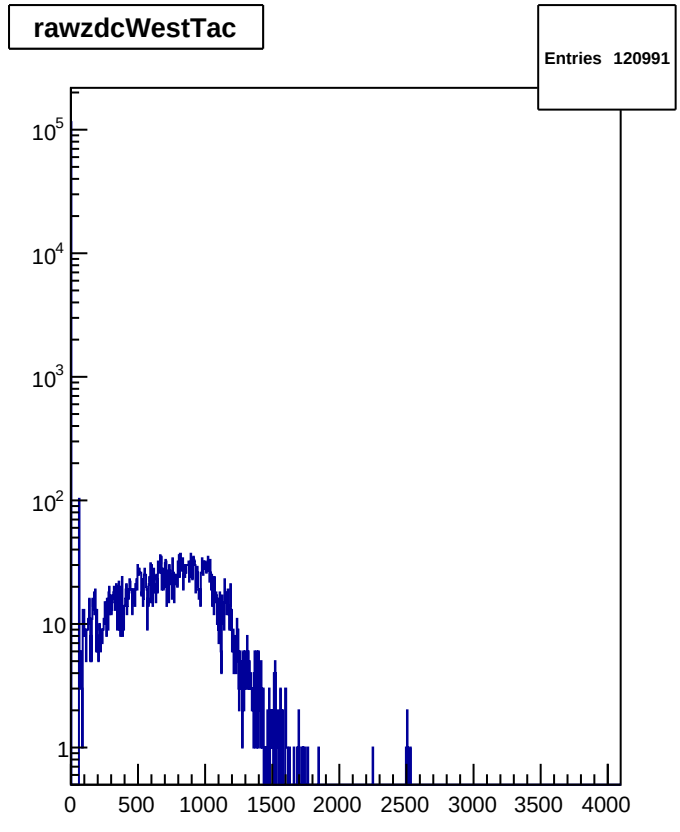

BBQ-BB002 (BBC west small tiles ADC)
Entries 1935856
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

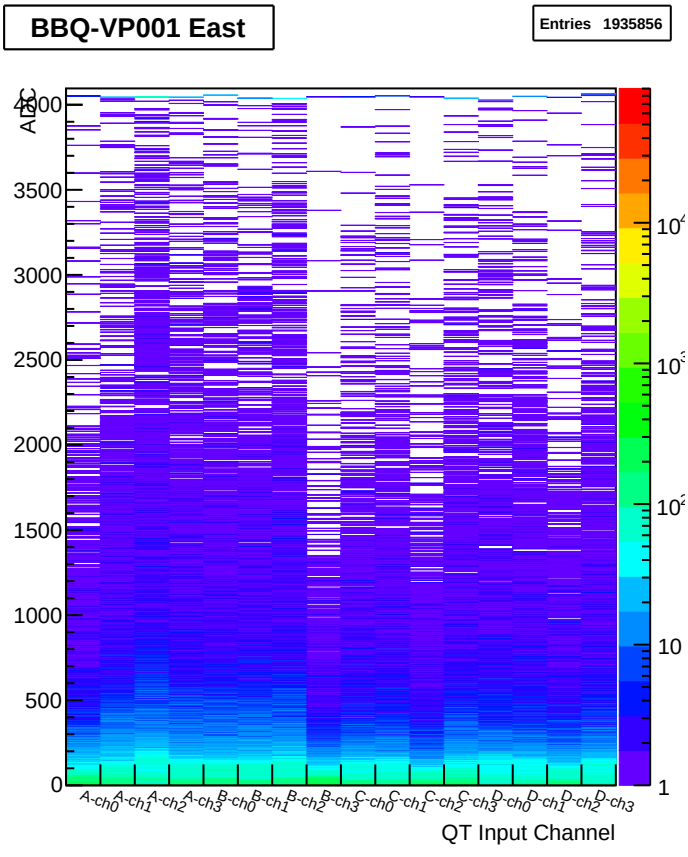

BBQ-BB002 (BBC west small tiles TAC)
Entries 1935856
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

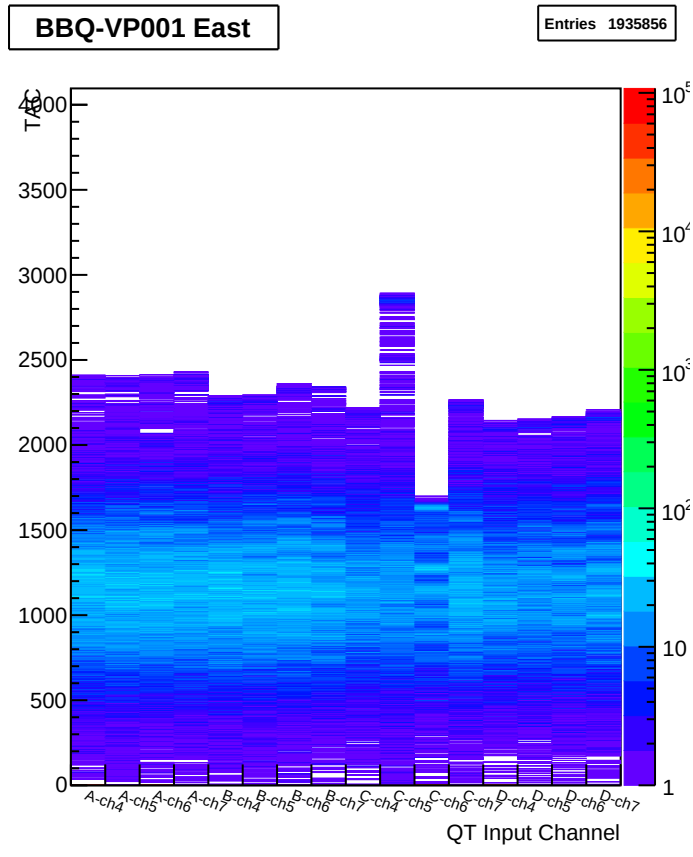

BBQ-ZD001 (ZDC TOWER)
Entries 1935856
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

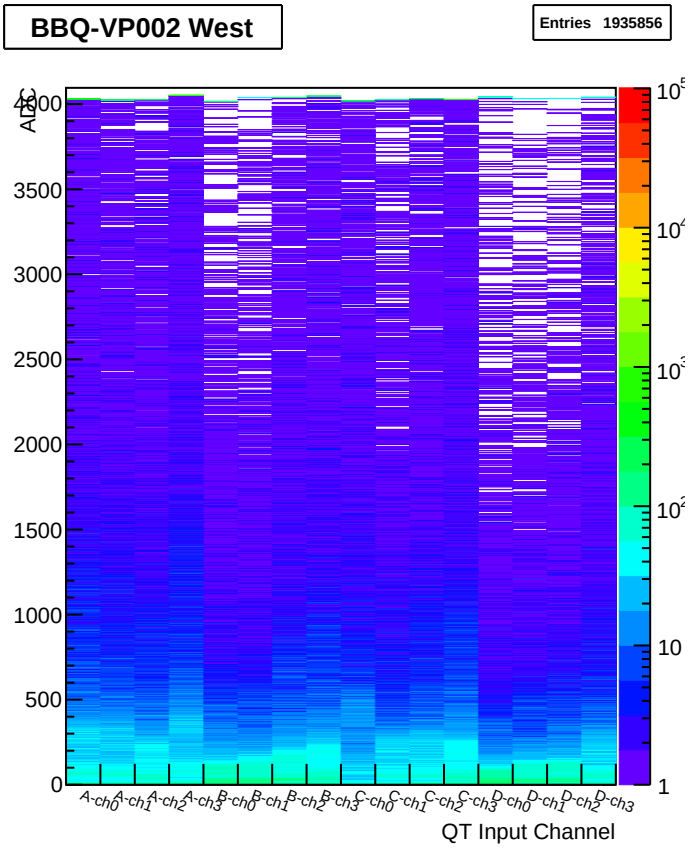

BBQ-ZD001 (ZDC TOWER)
Entries 1935856
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

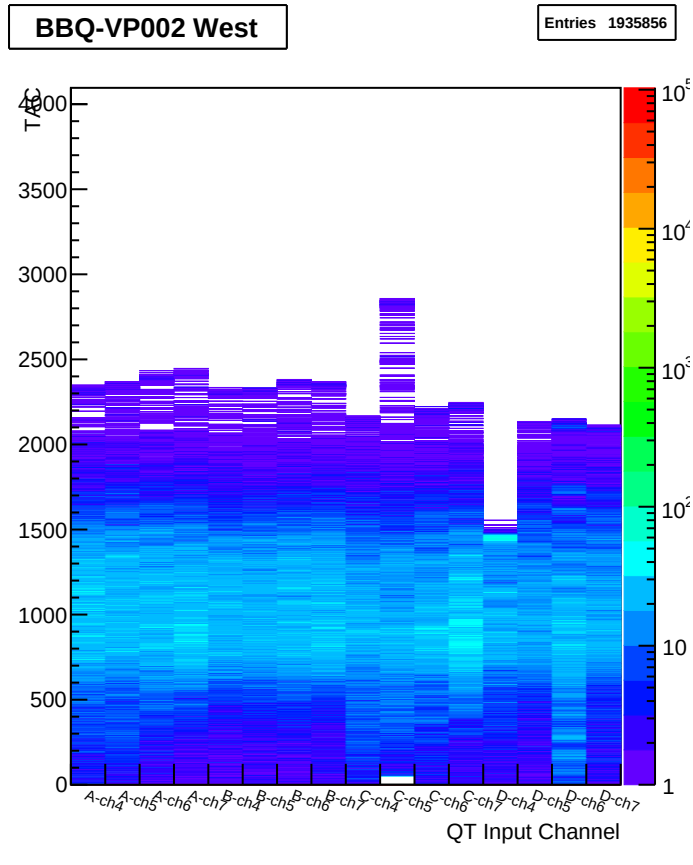

rawzdcEastTac
Entries 120991

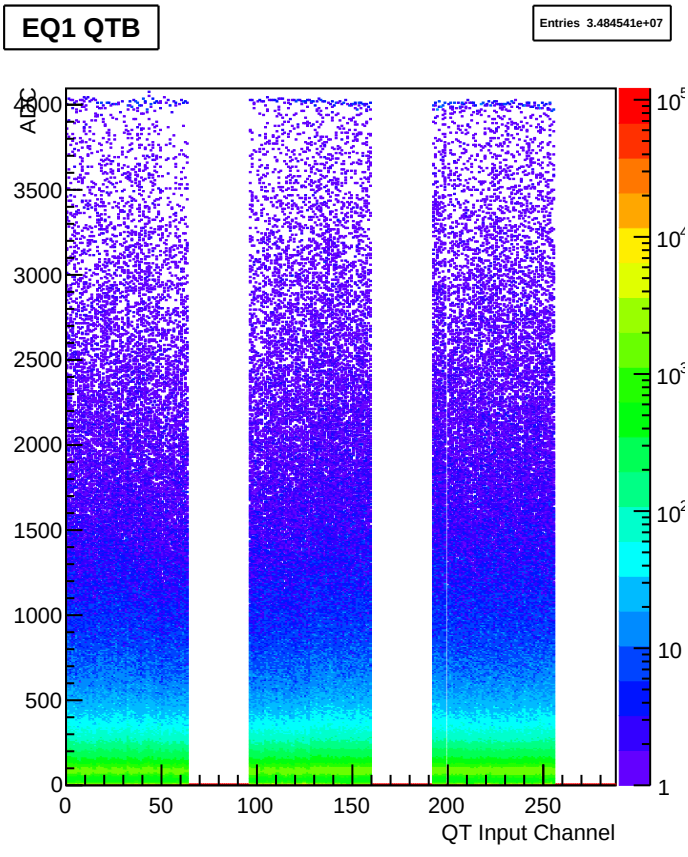

rawzdcWestTac
Entries 120991

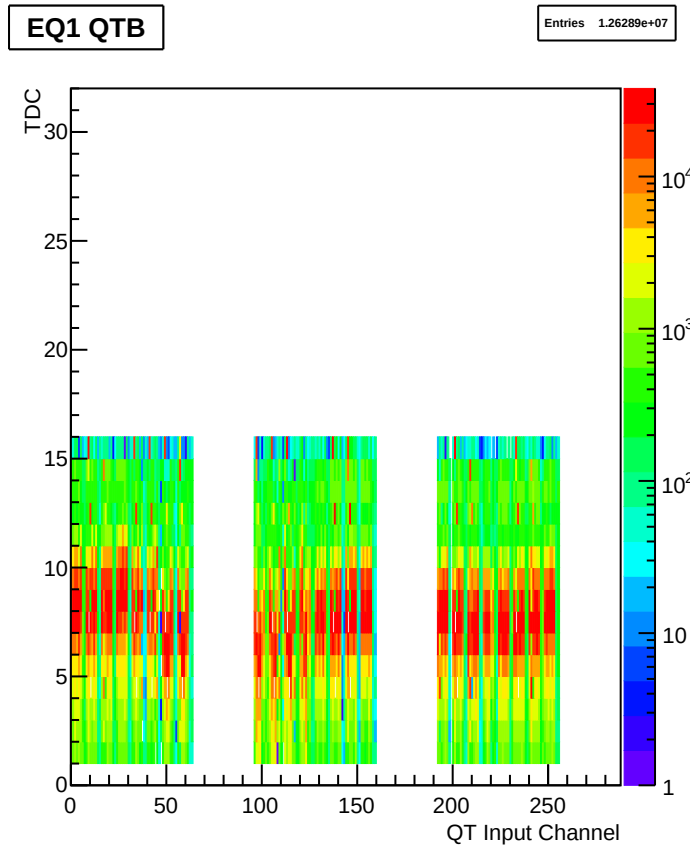

BBQ-VP001 East
Entries 1935856
ADC
QT Input Channel

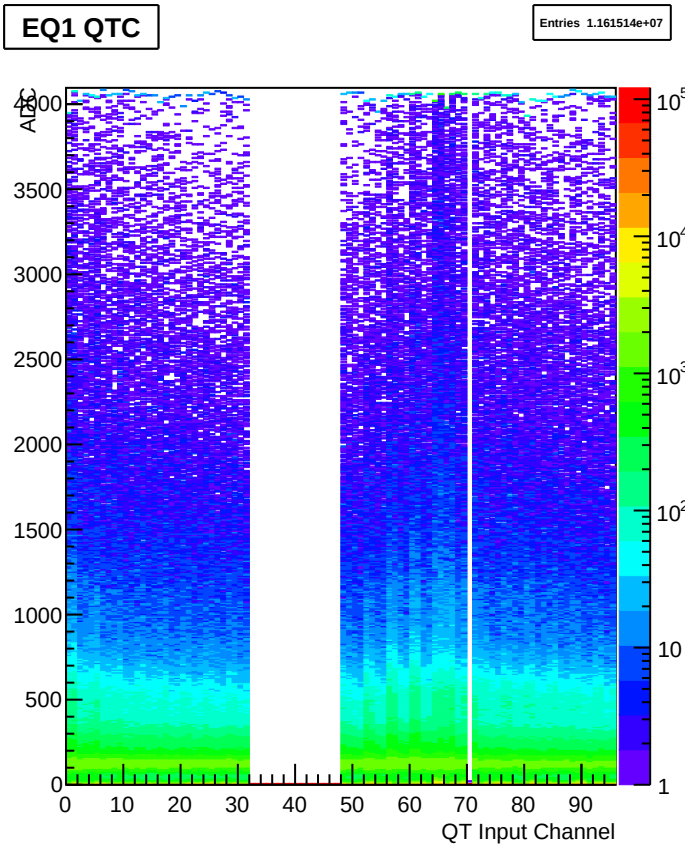

BBQ-VP001 East
Entries 1935856
TAC
QT Input Channel

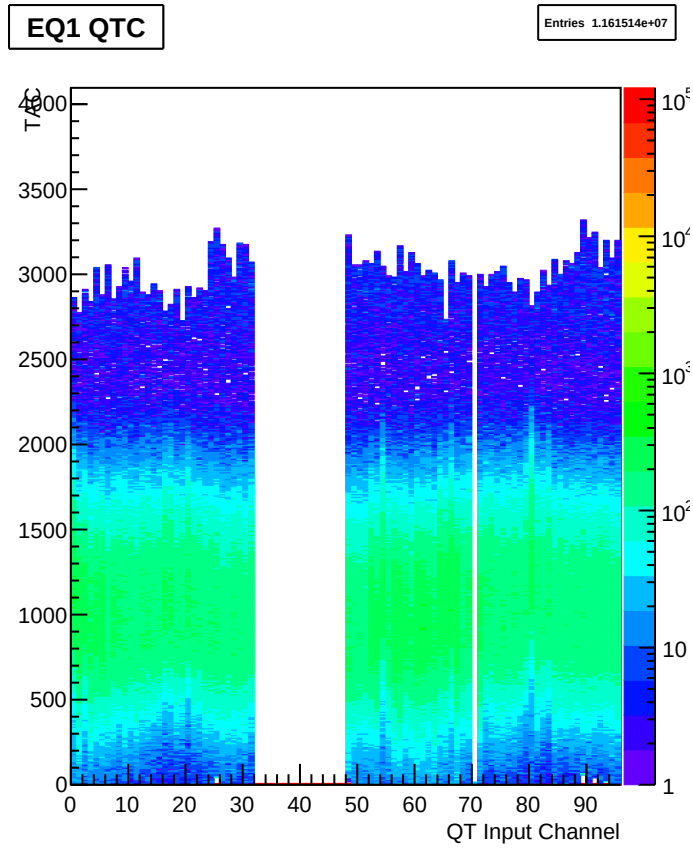

BBQ-VP002 West
Entries 1935856
ADC
QT Input Channel

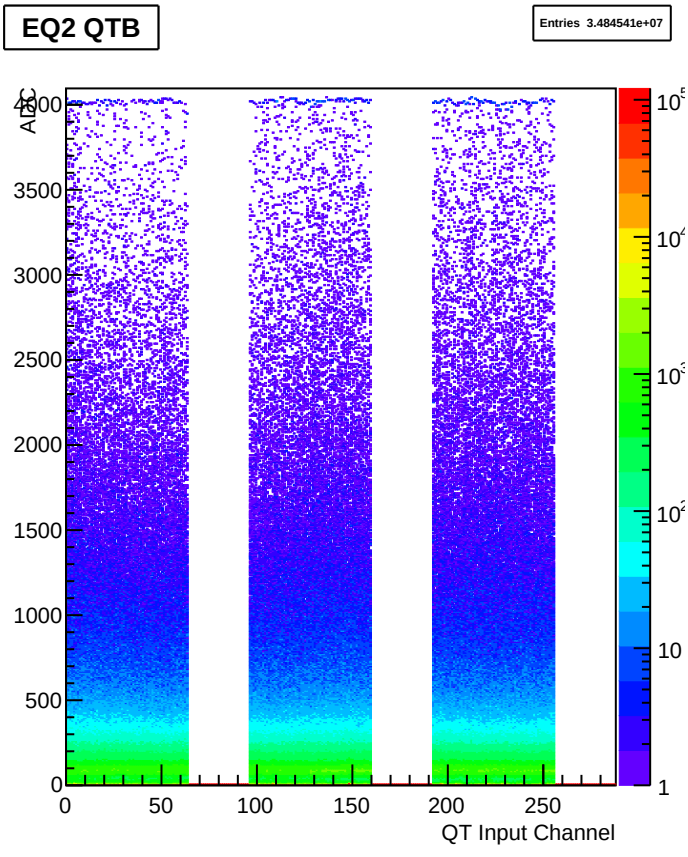

BBQ-VP002 West
Entries 1935856
TAC
QT Input Channel

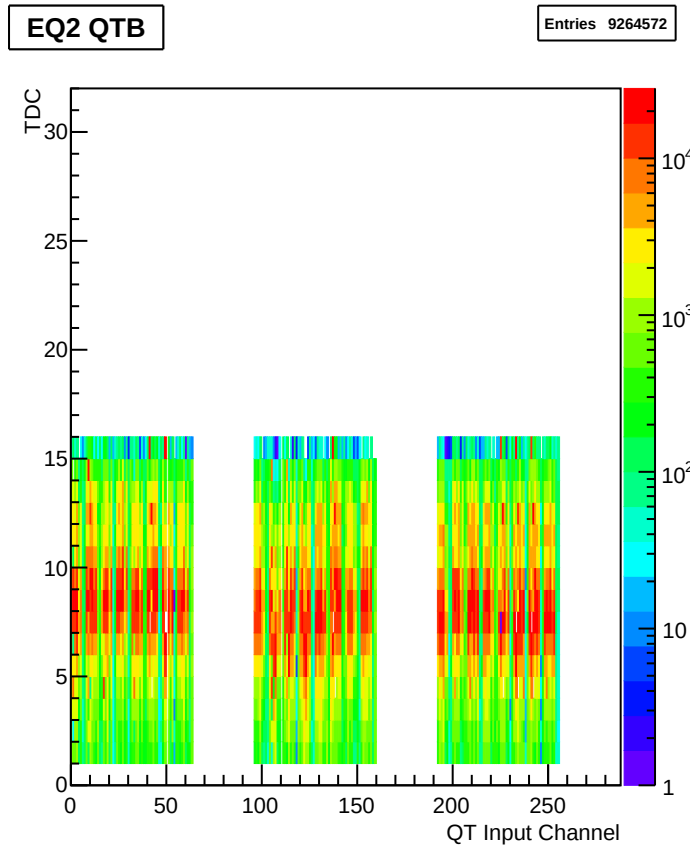

EQ1 QTB
Entries 3.484541e+07
ADC
QT Input Channel

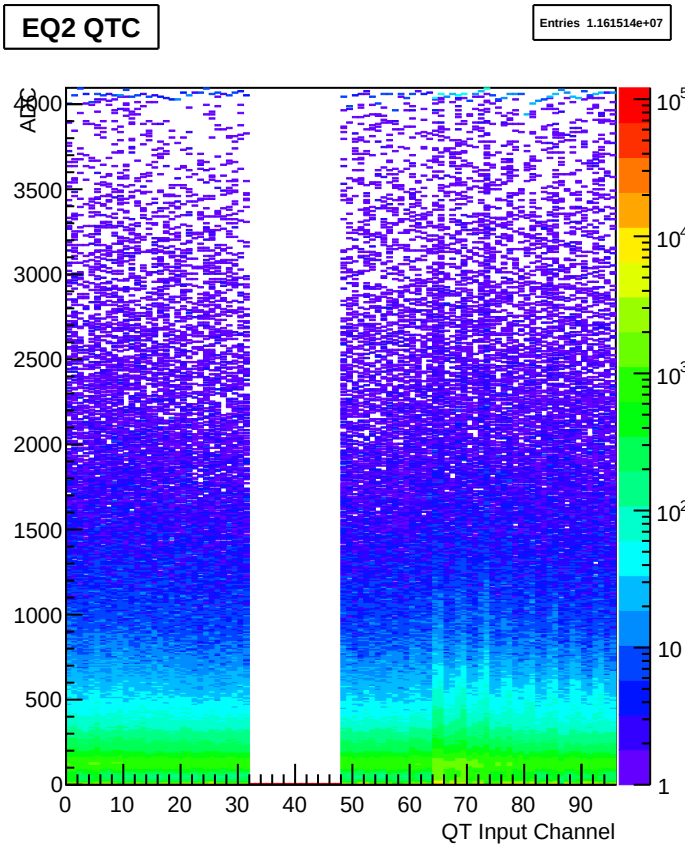

EQ1 QTB
Entries 1.26289e+07
TDC
QT Input Channel

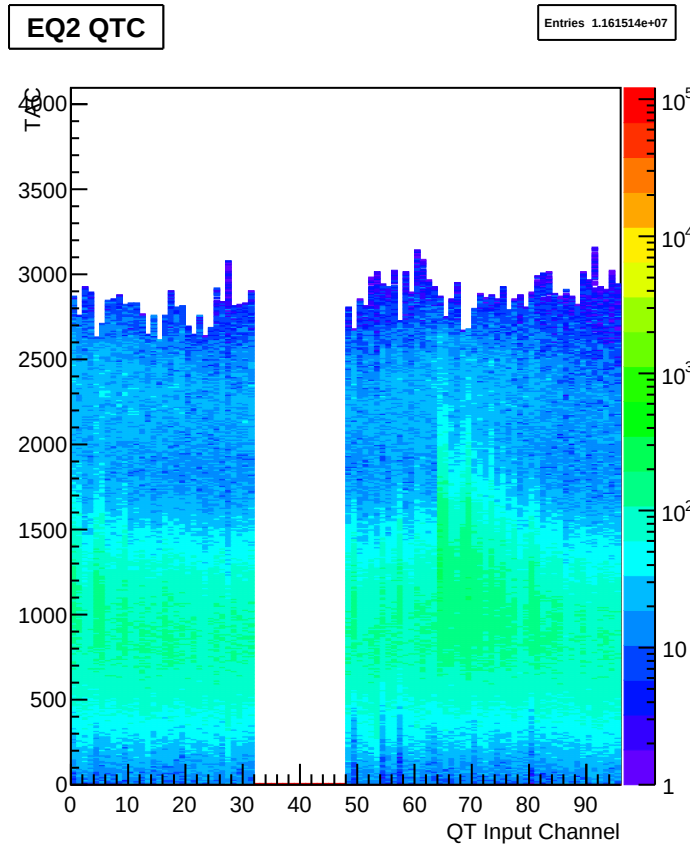

EQ1 QTC
Entries 1.161514e+07
ADC
QT Input Channel

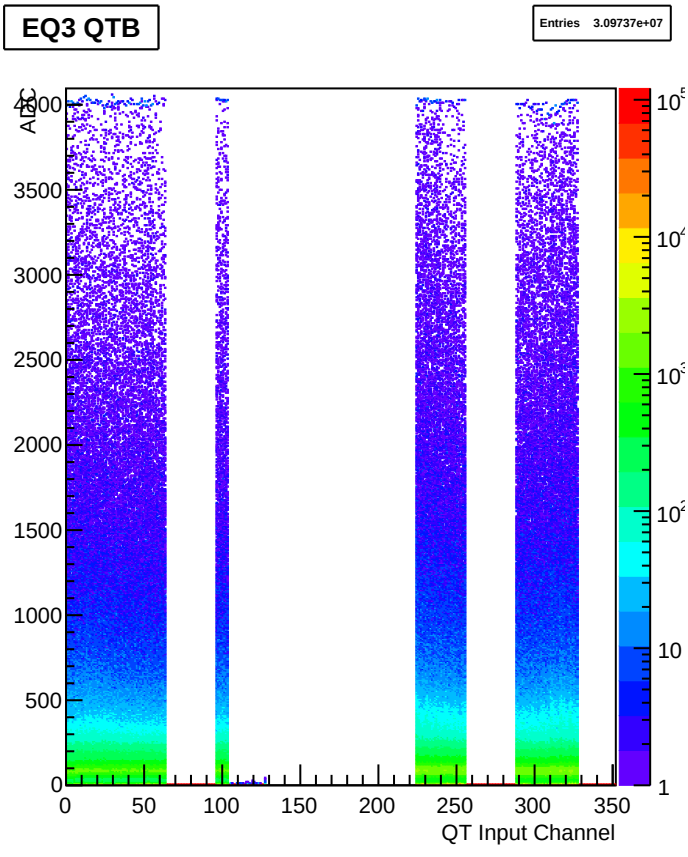

EQ1 QTC
Entries 1.161514e+07
TADC
QT Input Channel

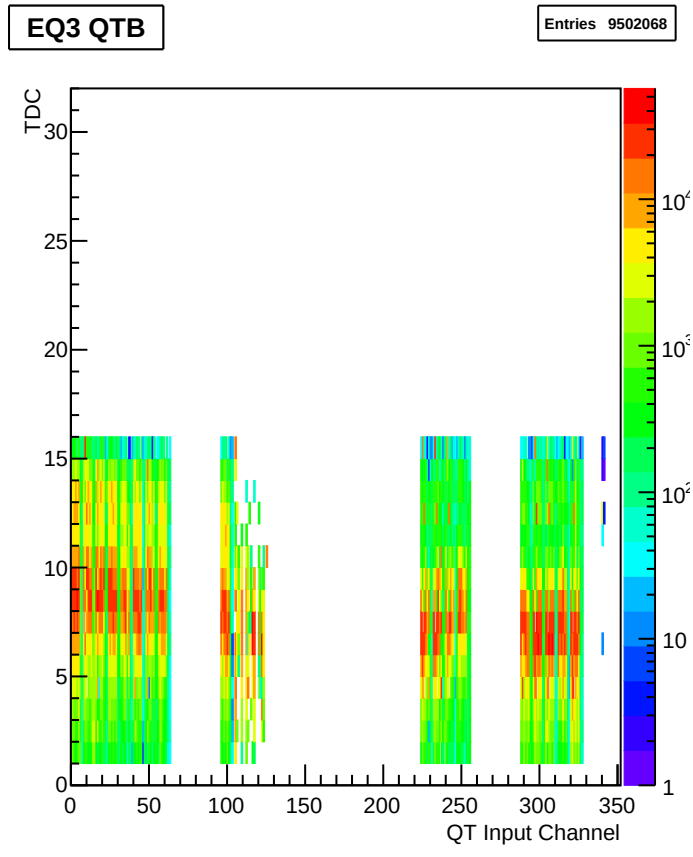

EQ2 QTB
Entries 3.484541e+07
ADC
QT Input Channel

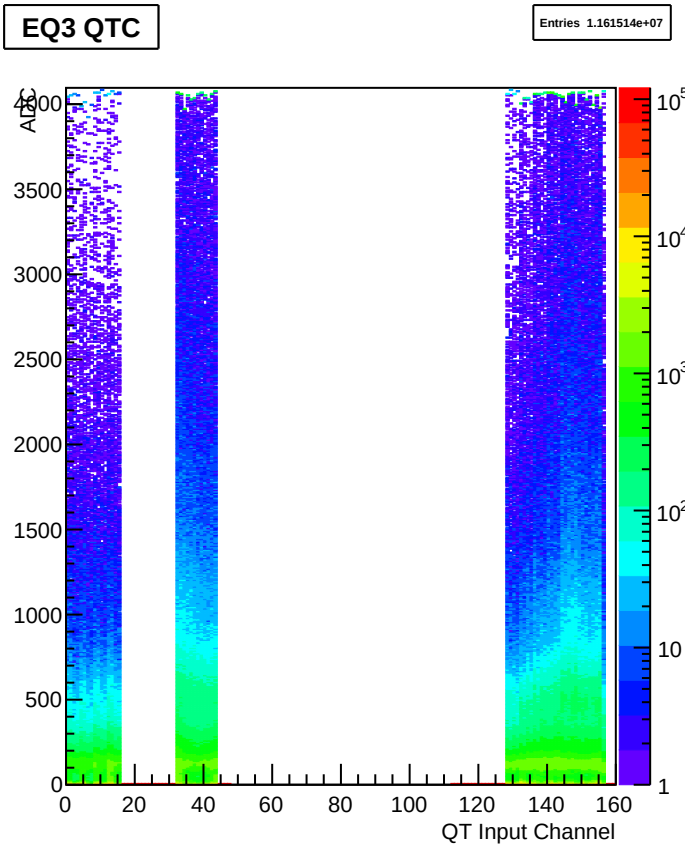

EQ2 QTB
Entries 9264572
TDC
QT Input Channel

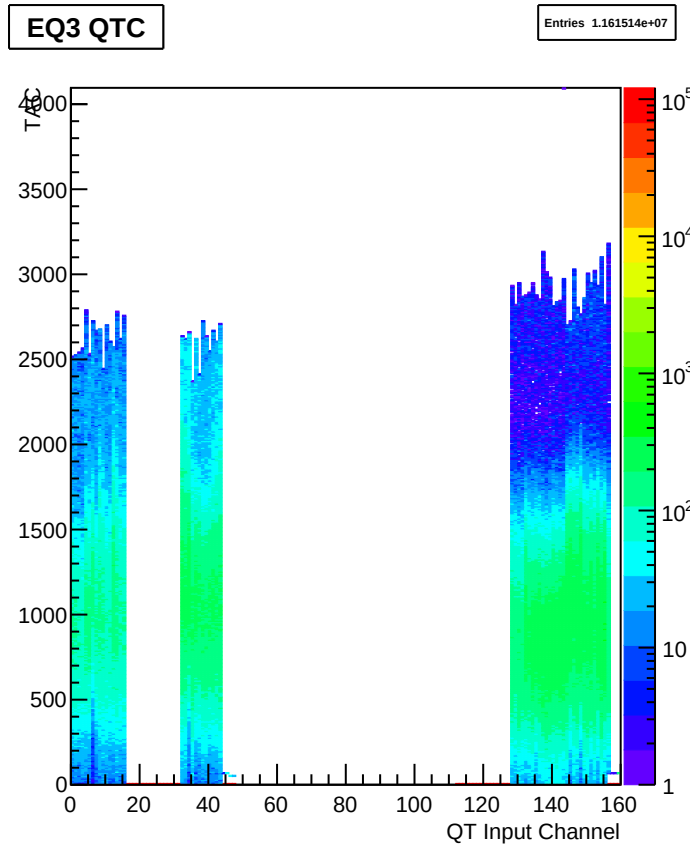

EQ2 QTC
Entries 1.161514e+07
ADC
QT Input Channel

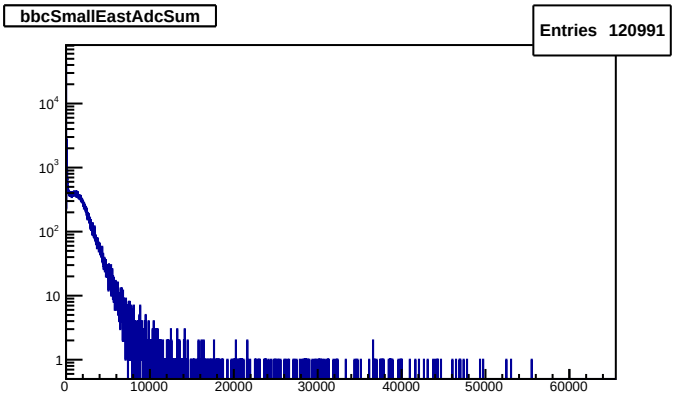

EQ2 QTC
Entries 1.161514e+07
TADC
QT Input Channel

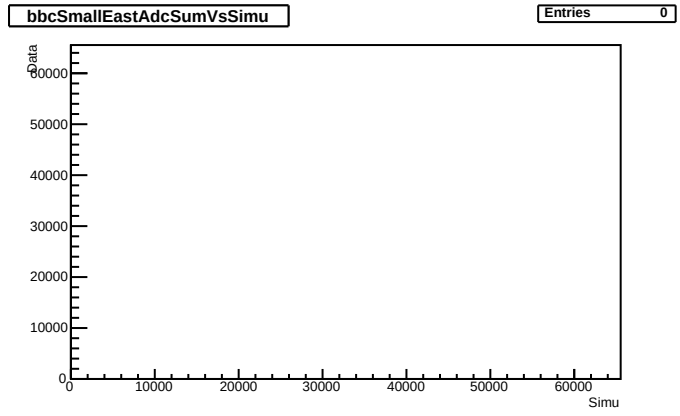

EQ3 QTB
Entries 3.09737e+07
ADC
QT Input Channel

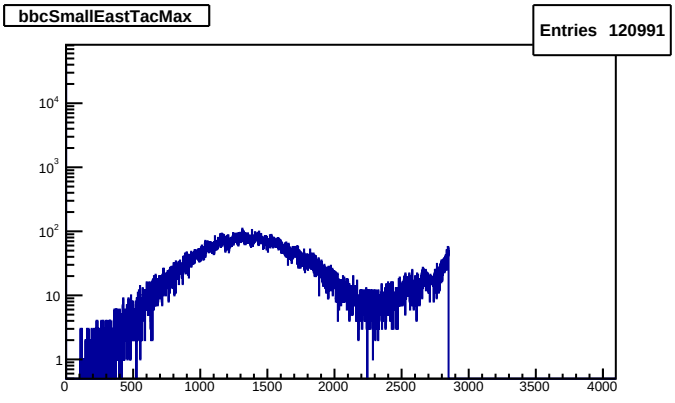

EQ3 QTB
Entries 9502068
TDC
QT Input Channel

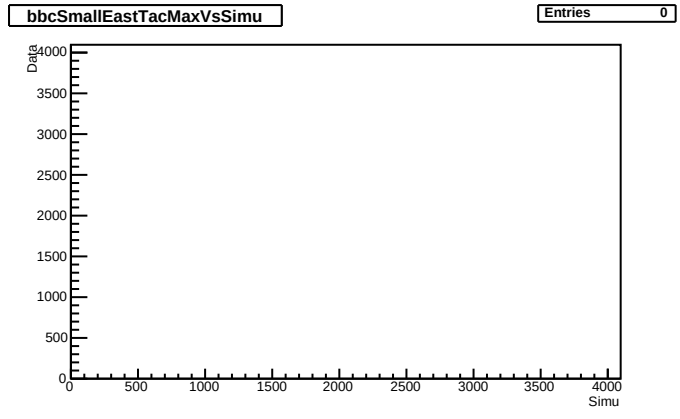

EQ3 QTC
Entries 1.161514e+07
ADC
QT Input Channel


EQ3 QTC
Entries 1.161514e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 120991


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 120991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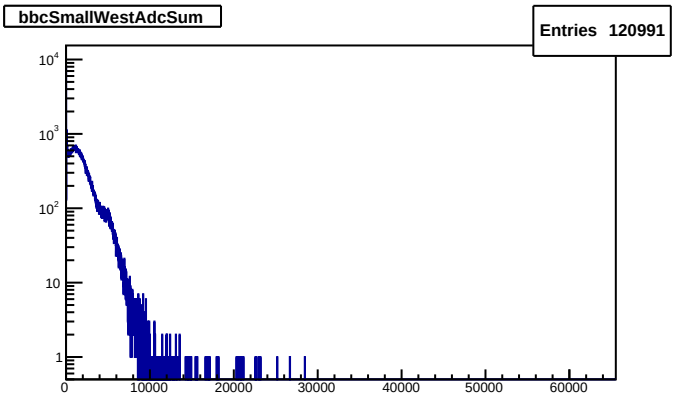
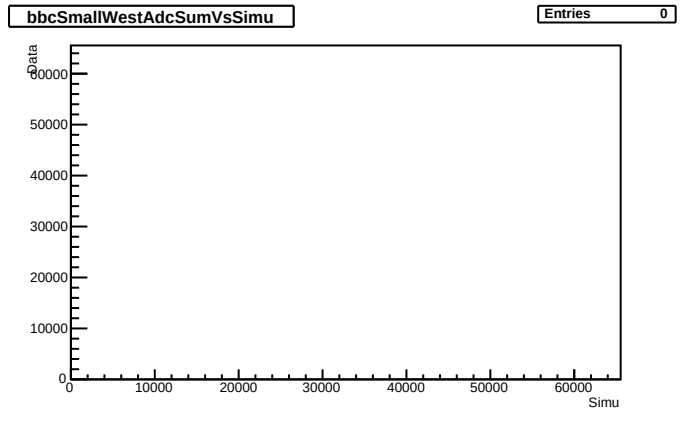
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 120991


bbcSmallWestAdcSumVsSimu
Entries 0
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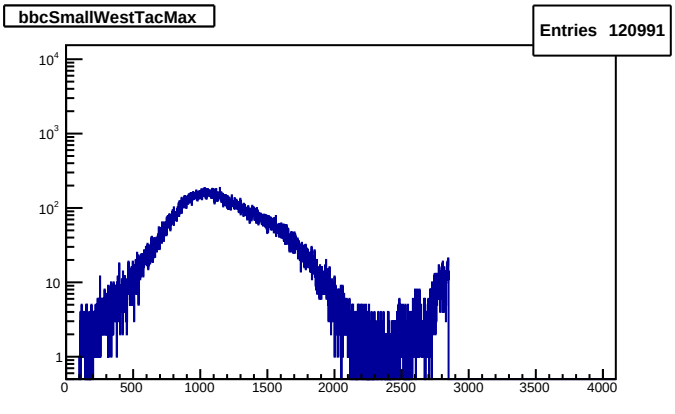
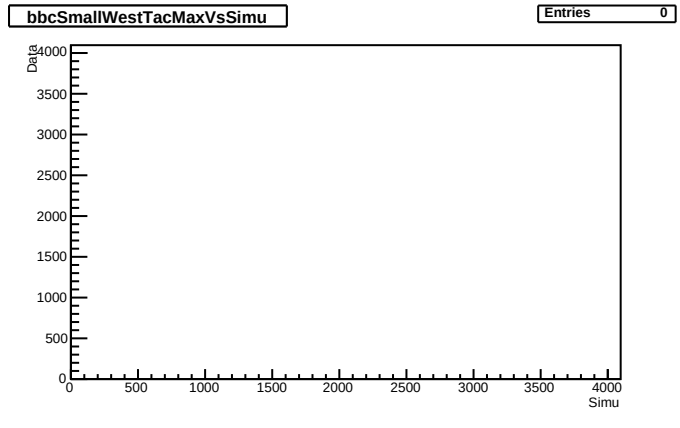
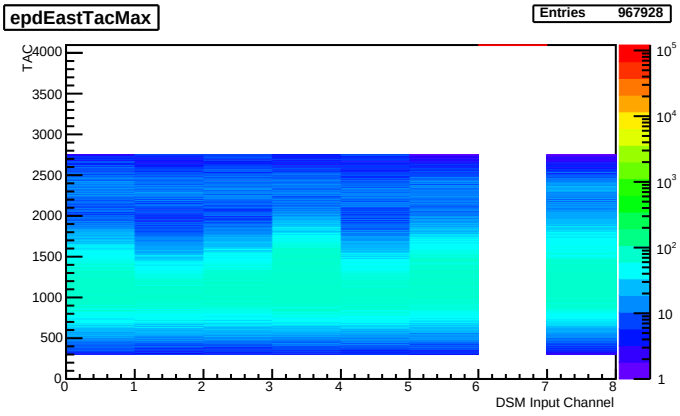
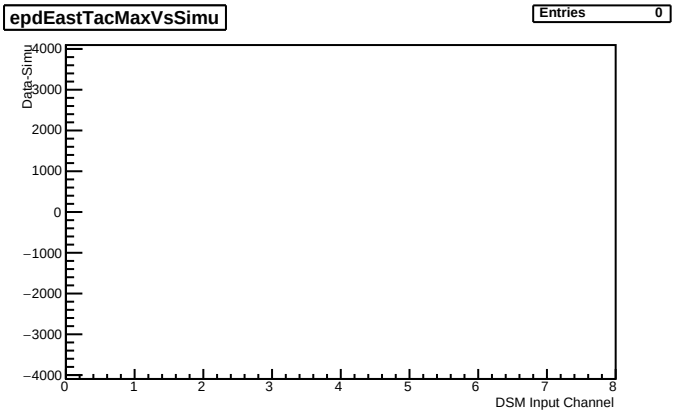
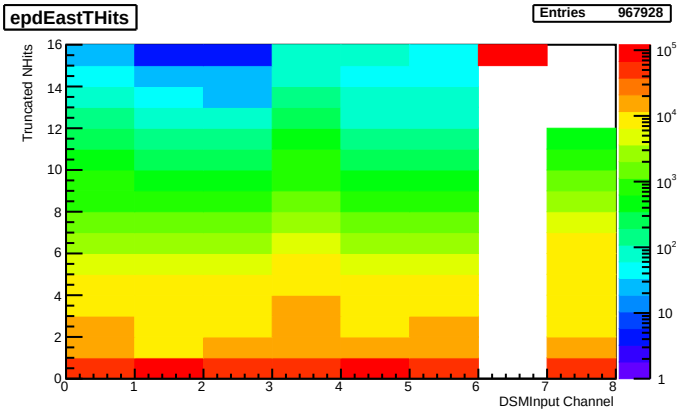
Simu

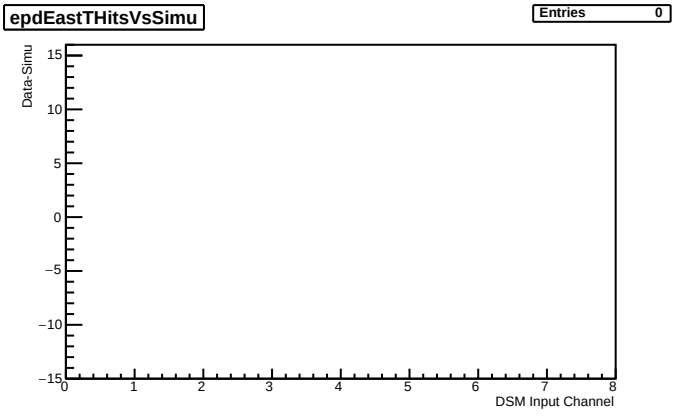

bbcSmallWestTacMax
Entries 120991


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 967928
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 967928
Truncated NHits
DSMInput Channel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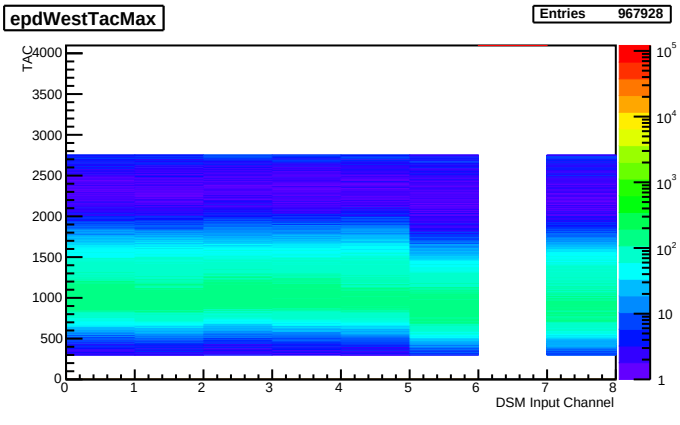
DSM Input Channel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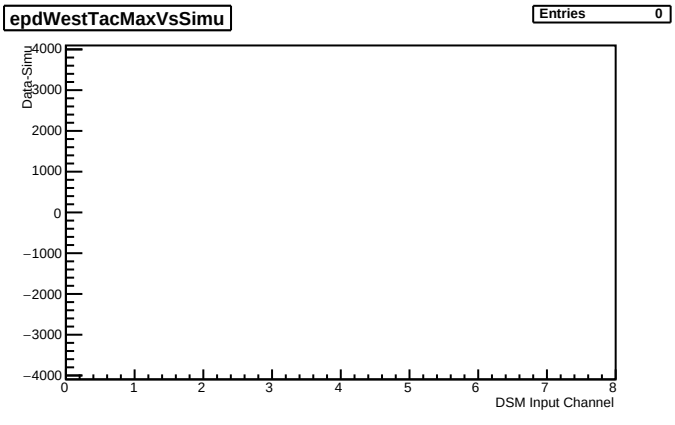
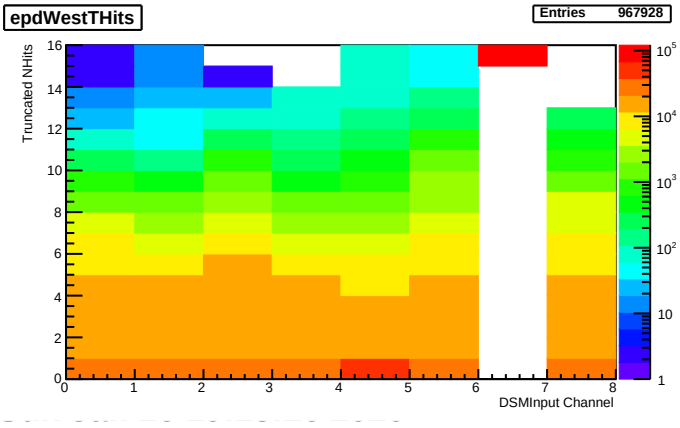
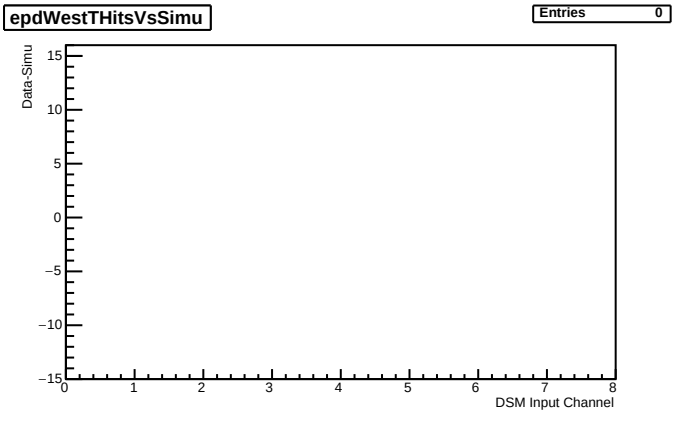
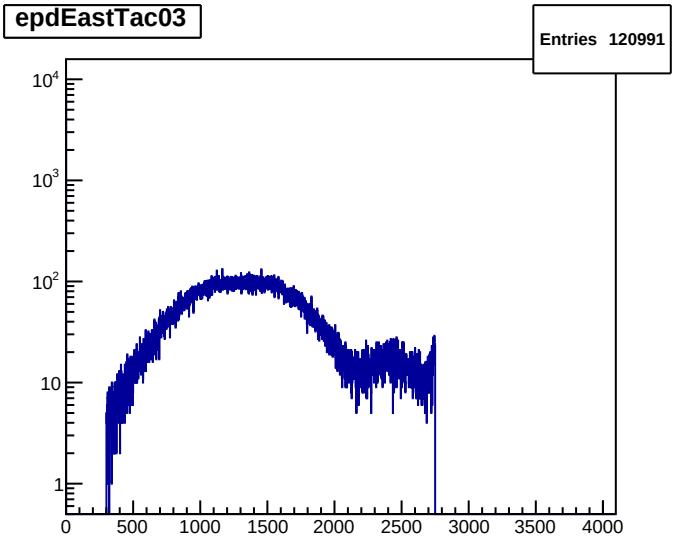
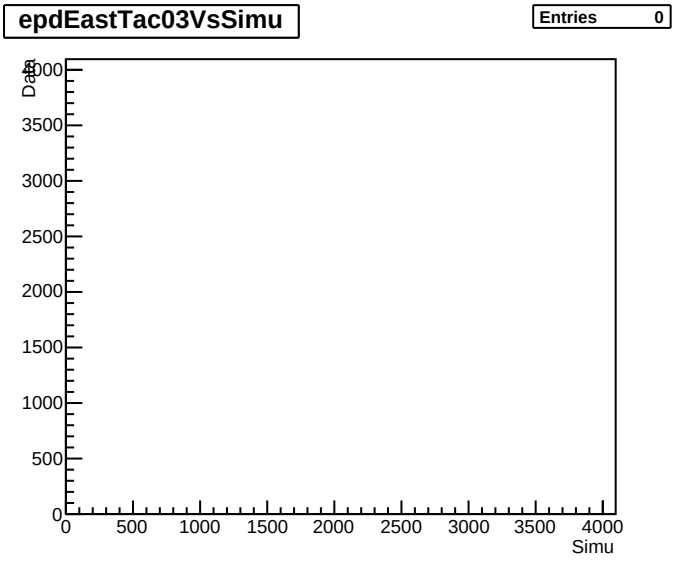
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 967928
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 120991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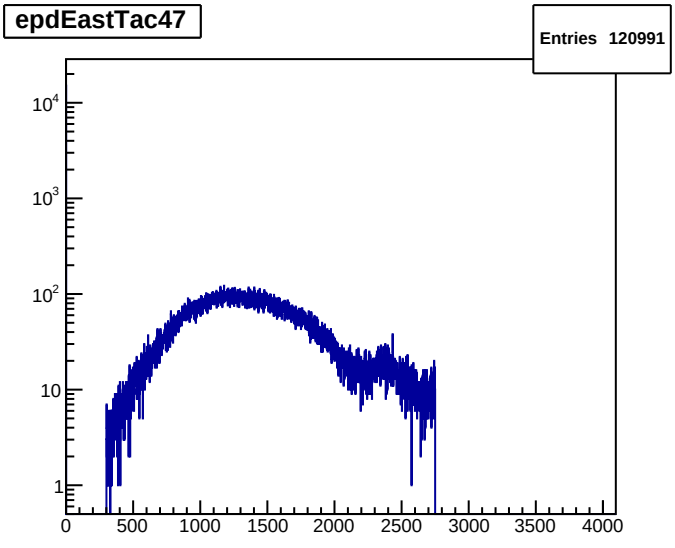
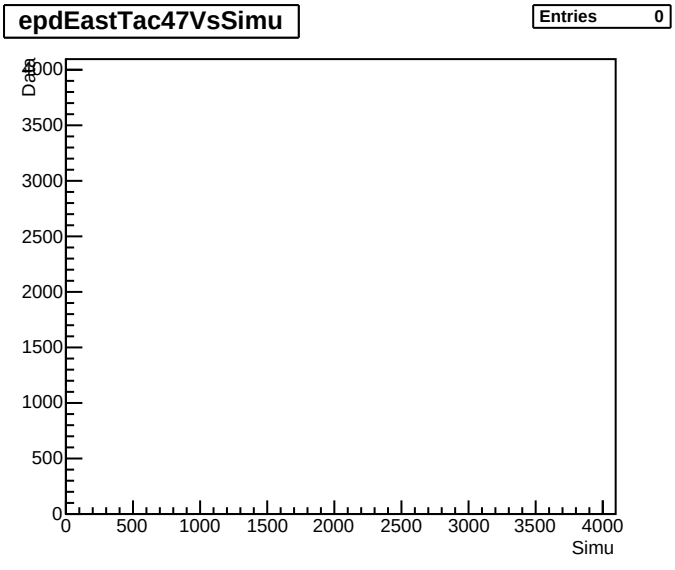
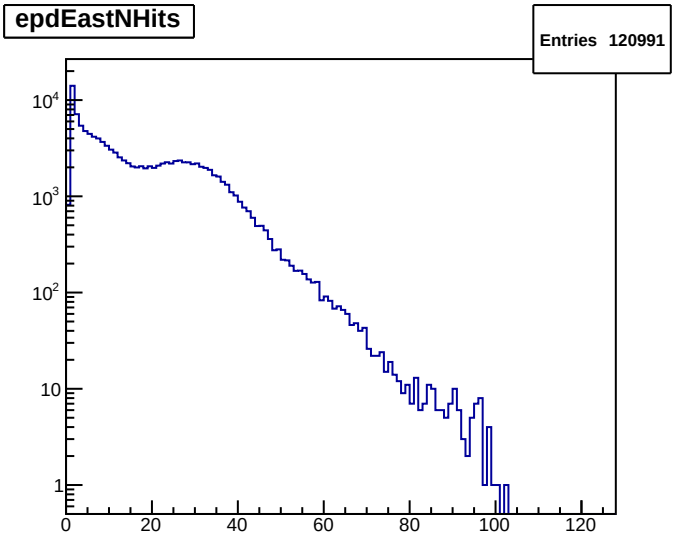
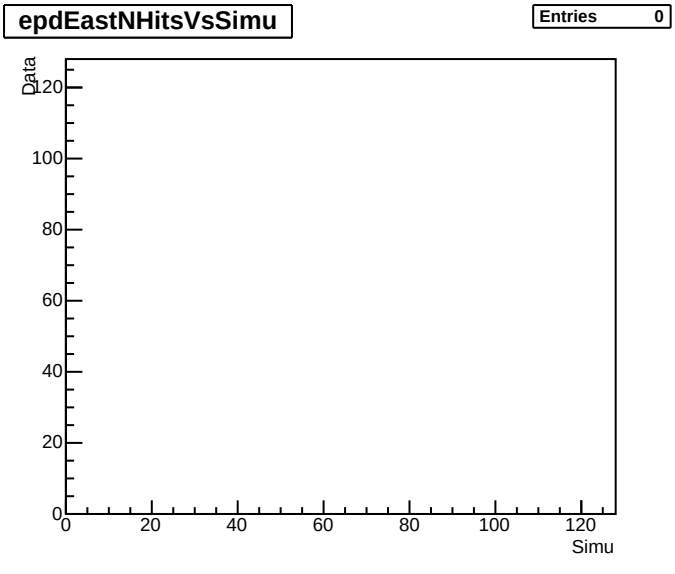
Entries 0
Data
Simu


epdEastTac47
Entries 120991


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 120991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Entries 0
Data
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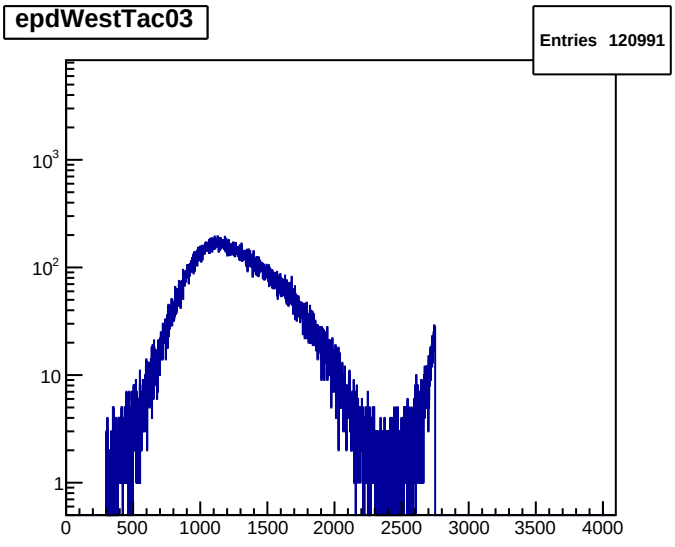
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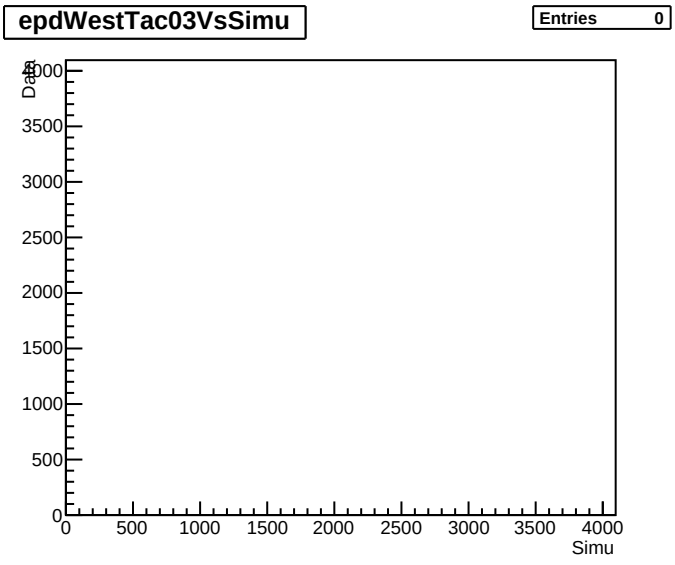
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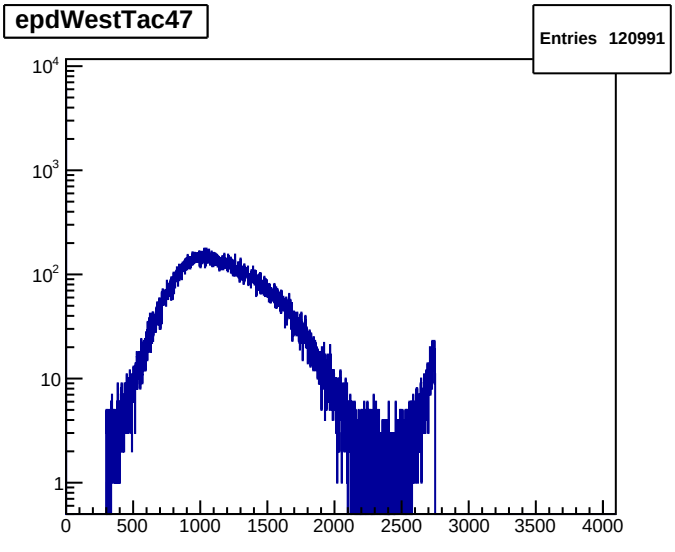
Entries 0
Data
Simu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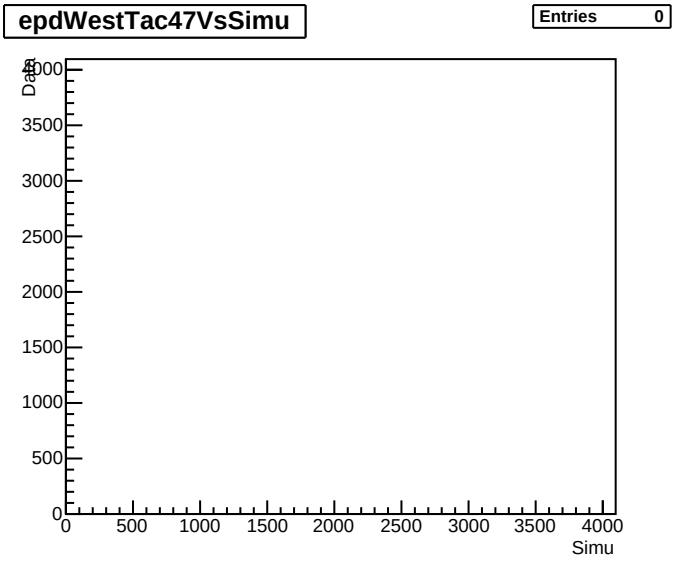
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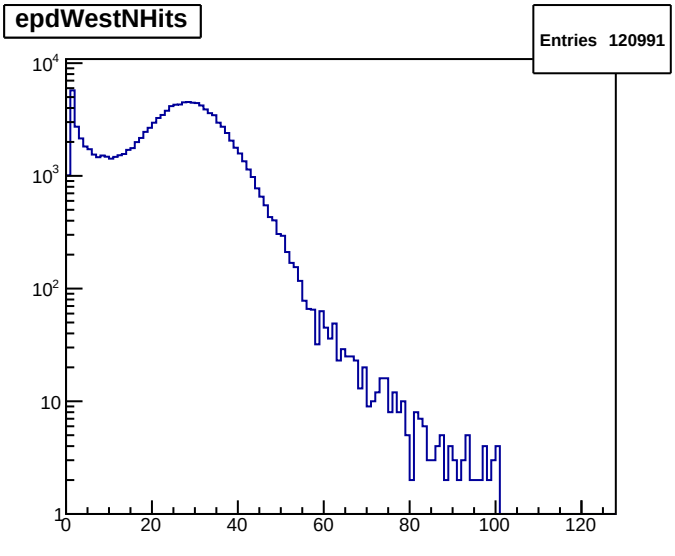
Entries 0
Data
Simu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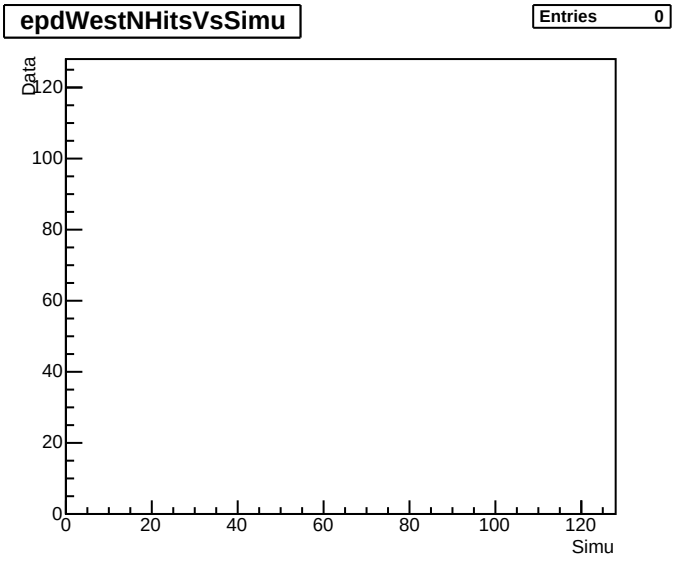
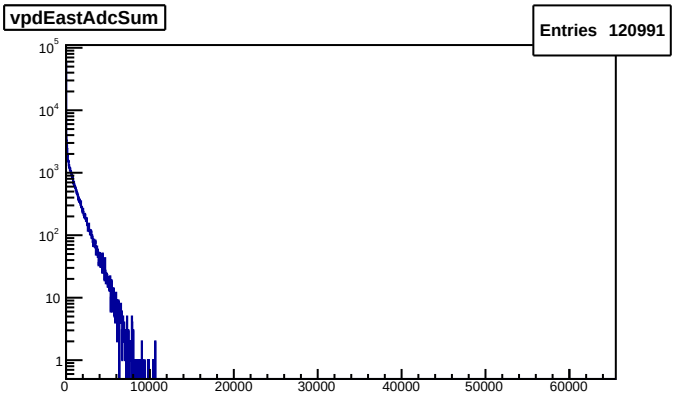
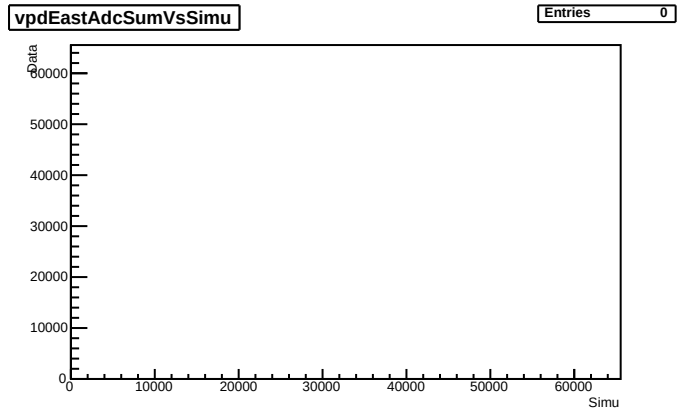
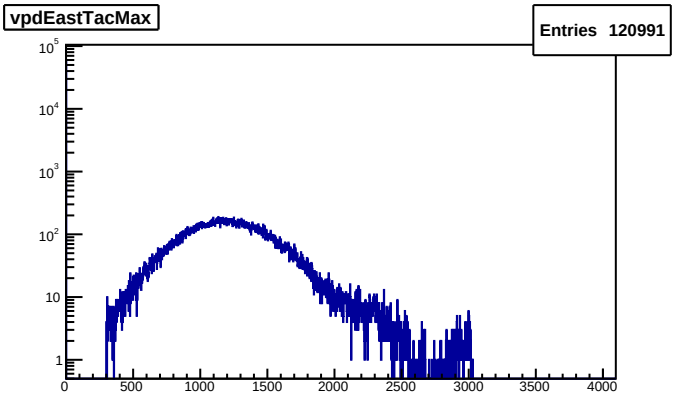
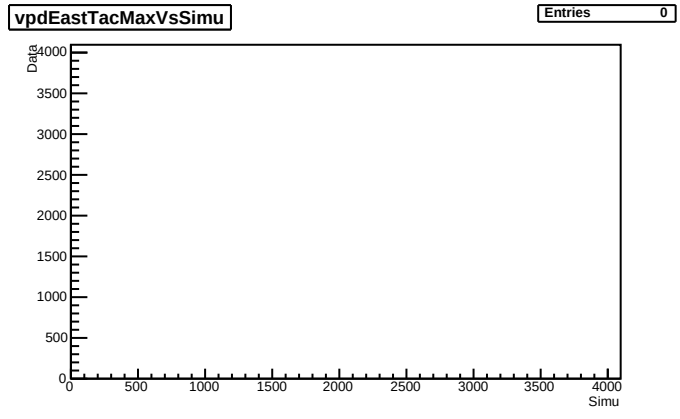
Entries 120991


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 120991


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries 120991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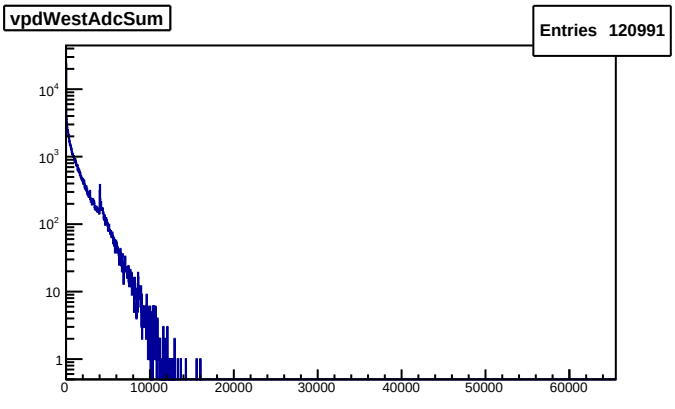
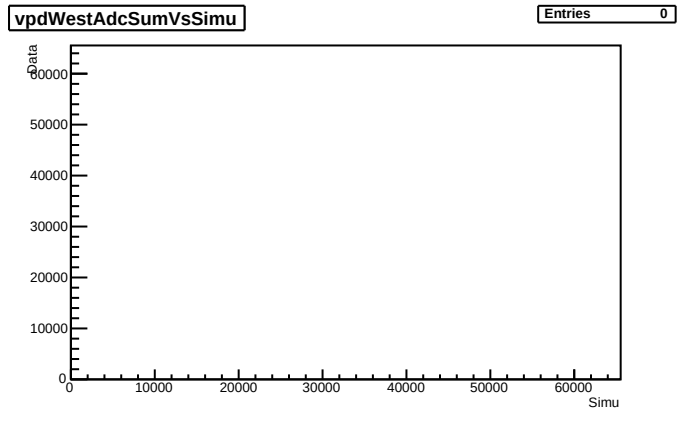
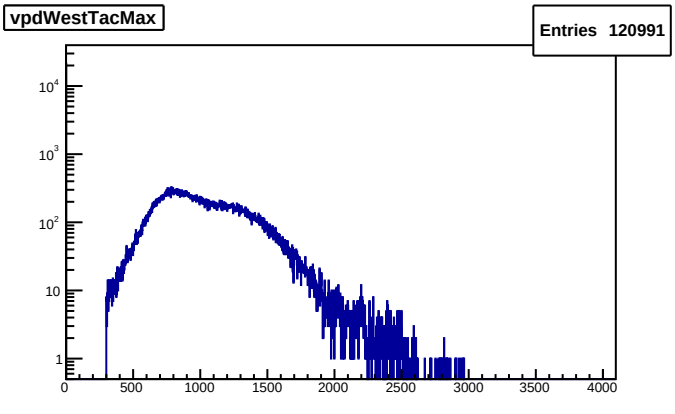
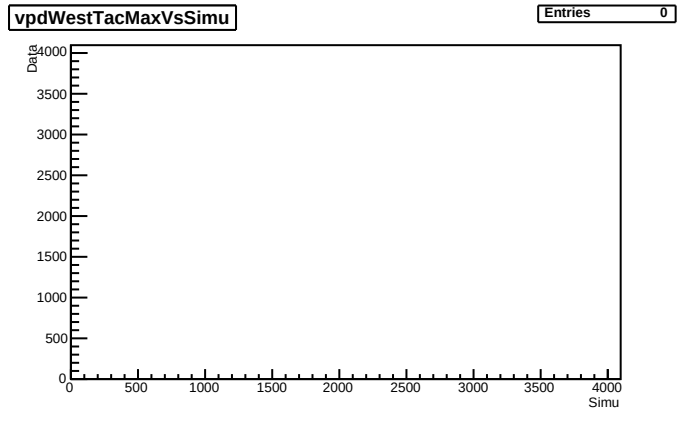
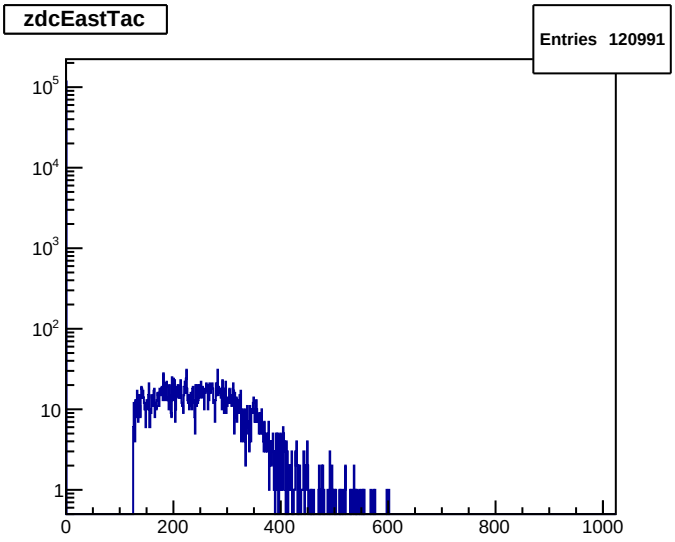
Entries 0
Data
Simu

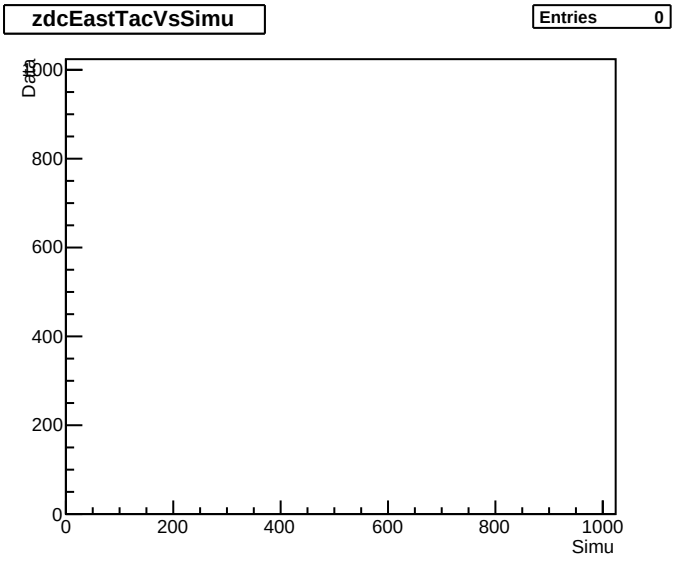

vpdWestAdcSum
Entries 120991

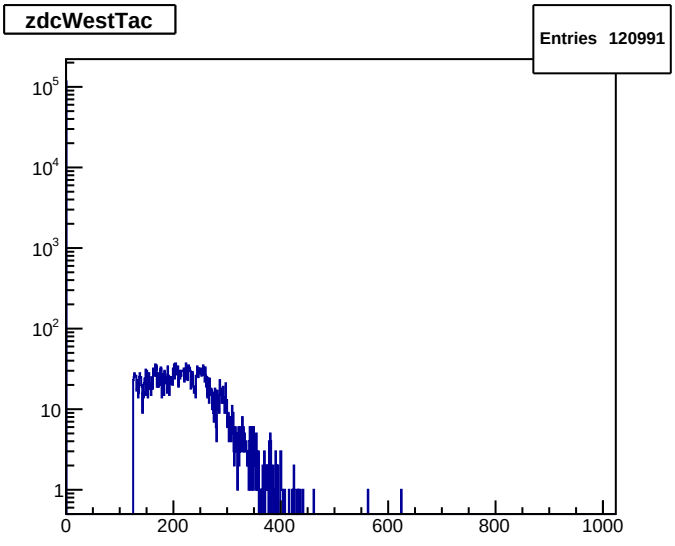

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

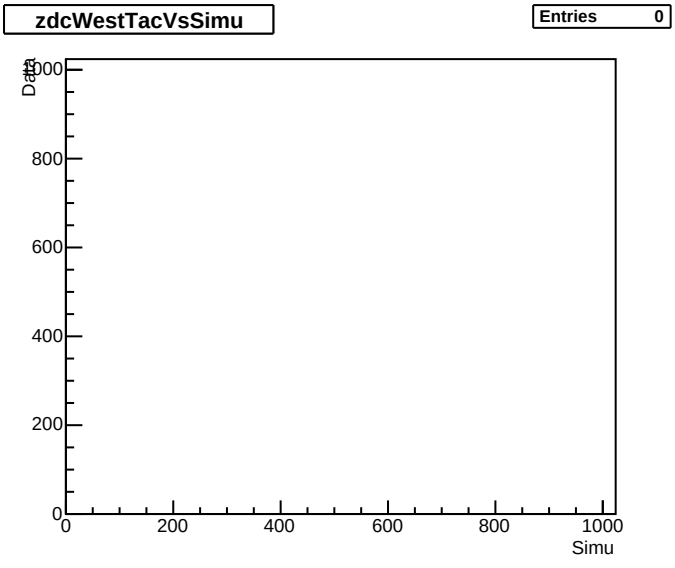

vpdWestTacMax
Entries 120991

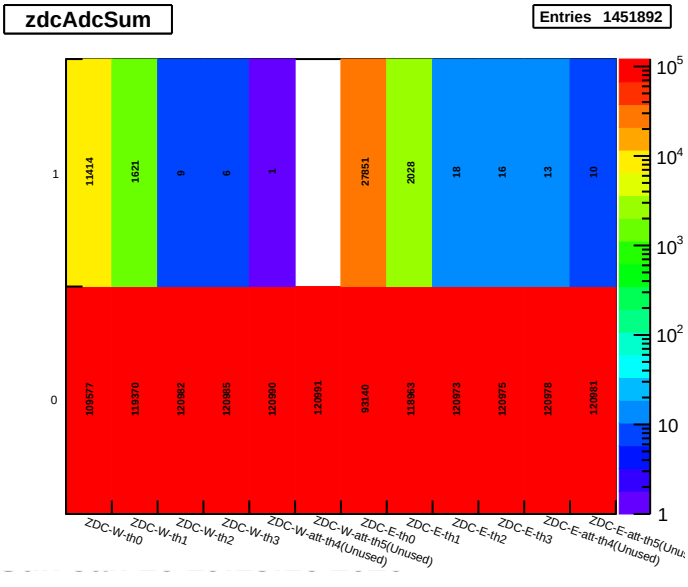

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

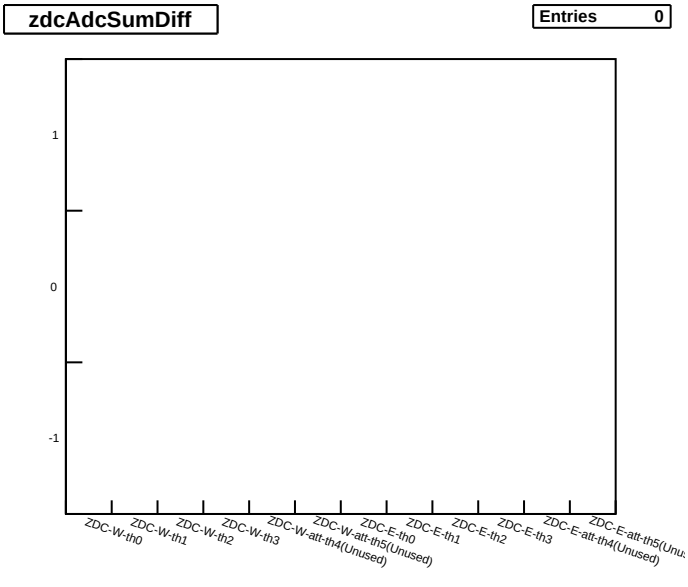

zdcEastTac
Entries 120991


zdcEastTacVsSimu
Entries 0
Data
Simu


zdcWestTac
Entries 120991


zdcWestTacVsSimu
Entries 0
Data
Simu


zdcAdcSum
Entries 1451892
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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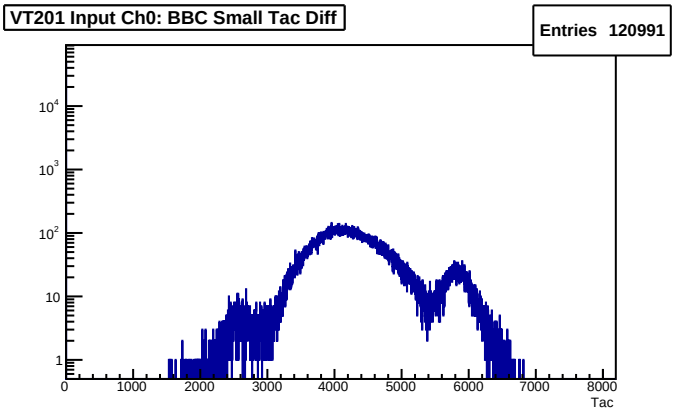
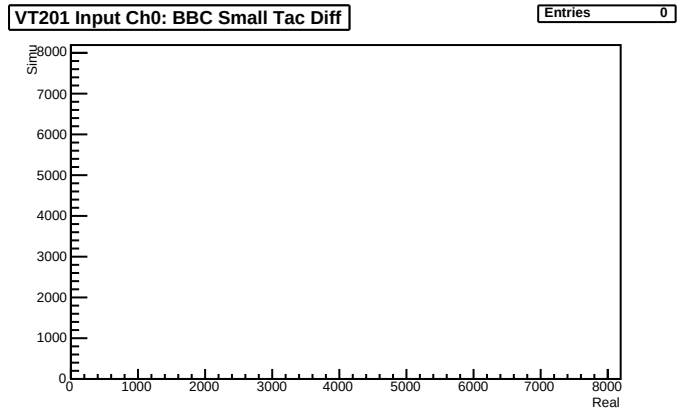
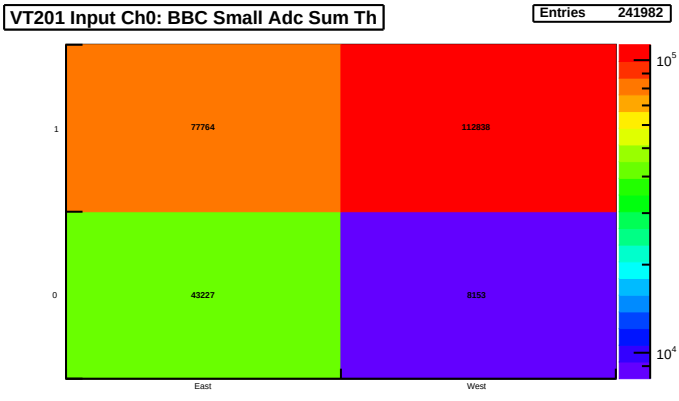
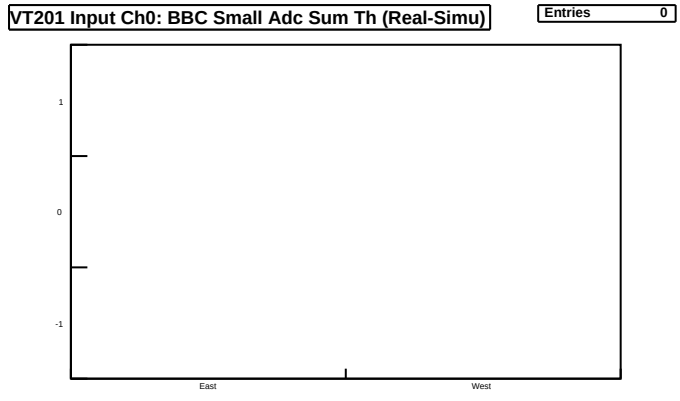
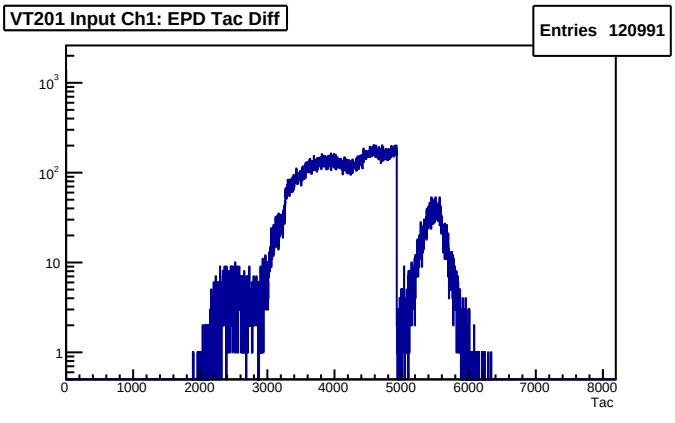
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

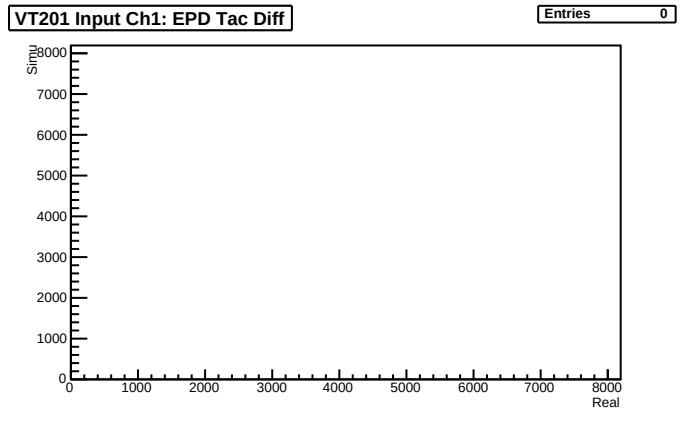

VT201 Input Ch0: BBC Small Tac Diff
Entries 120991
Tac

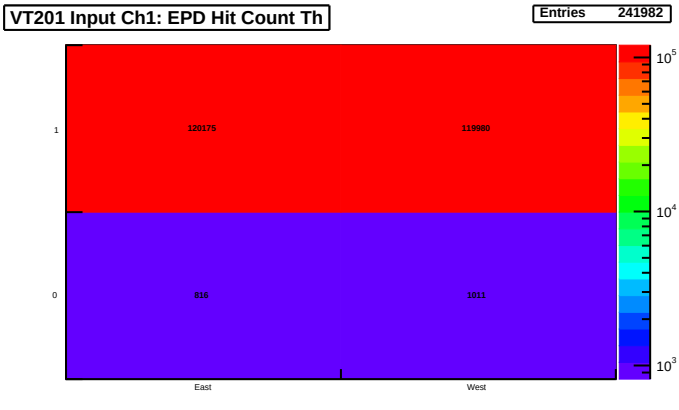

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

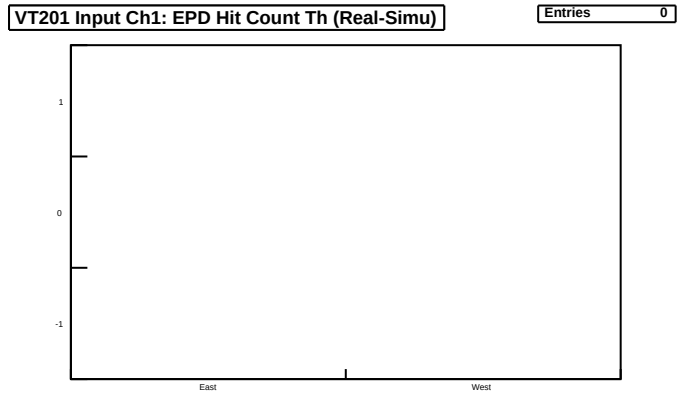

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 241982
77764
112838
43227
8153
East
West

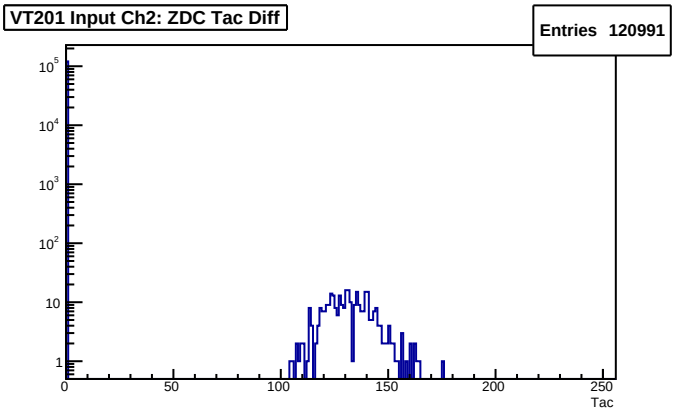

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

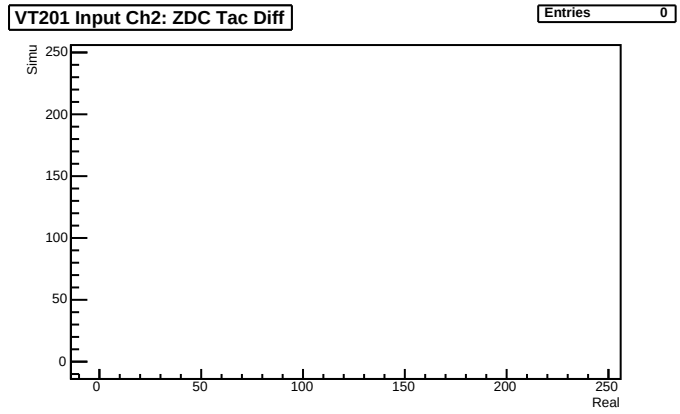

VT201 Input Ch1: EPD Tac Diff
Entries 120991
Tac

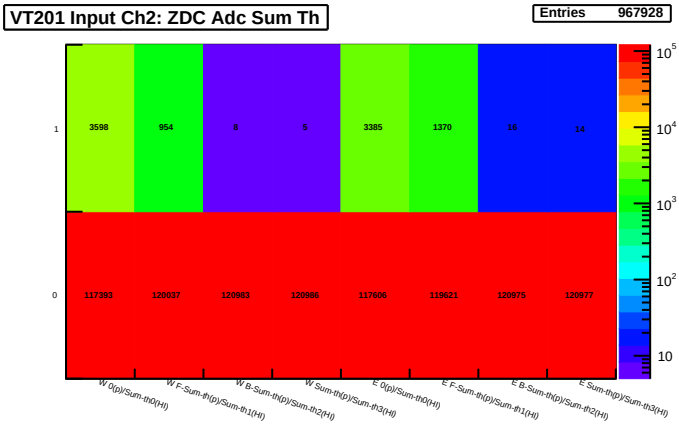

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

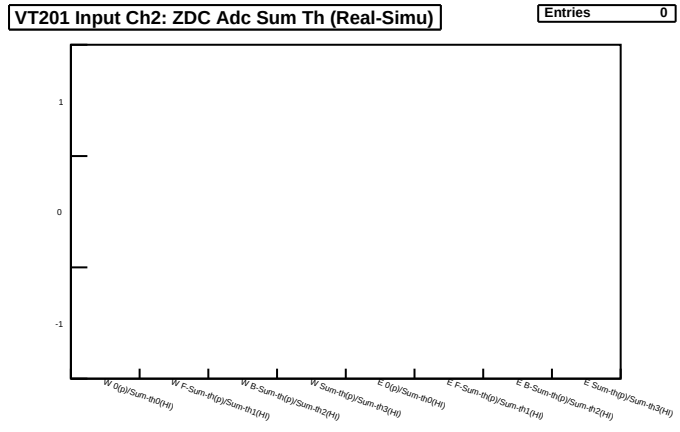

VT201 Input Ch1: EPD Hit Count Th
Entries 241982
120175
119980
816
1011
East
West

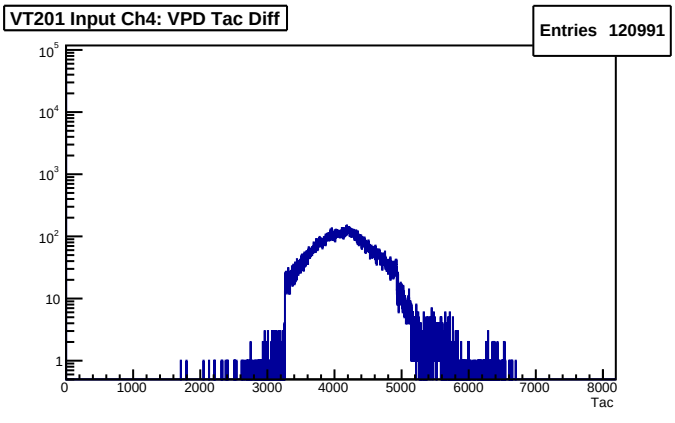

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

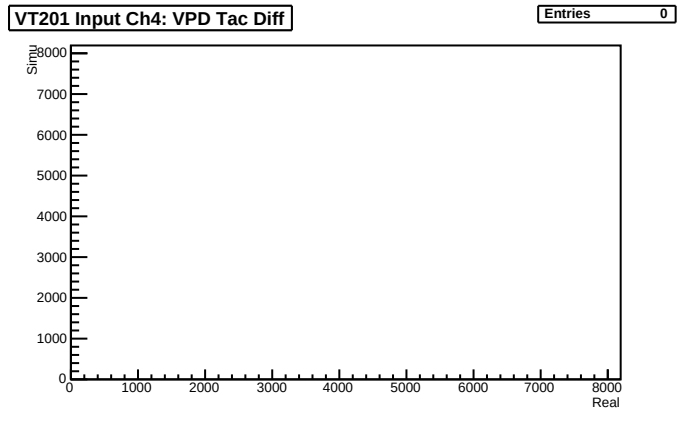

VT201 Input Ch2: ZDC Tac Diff
Entries 120991
Tac

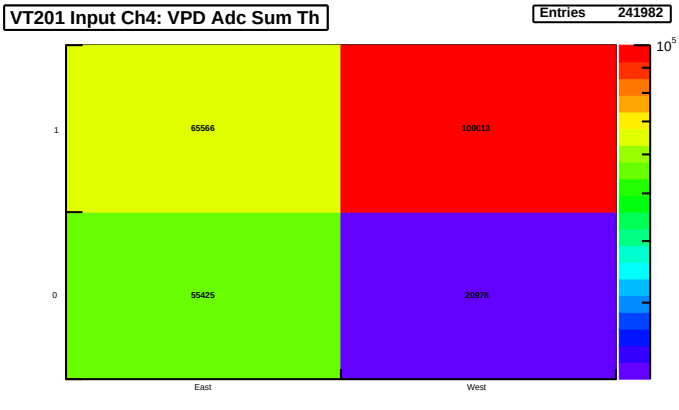

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

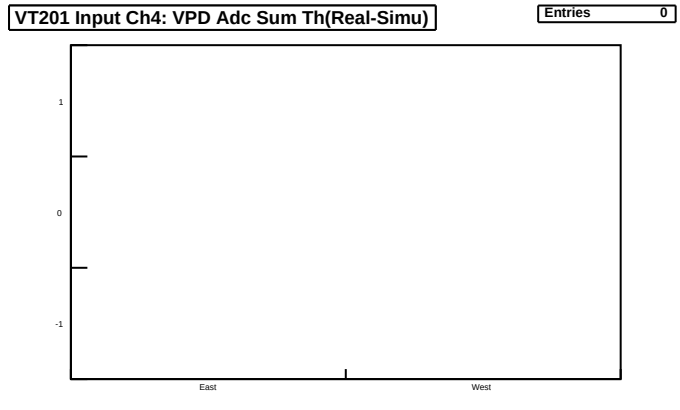

VT201 Input Ch2: ZDC Adc Sum Th
Entries 967928
3598
954
8
5
3385
1370
16
14
117393
120037
120983
120986
117606
119621
120975
120977
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

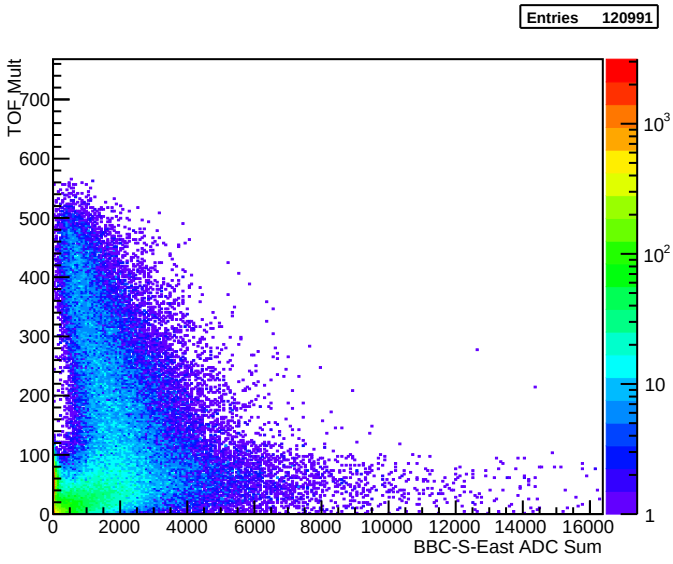

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

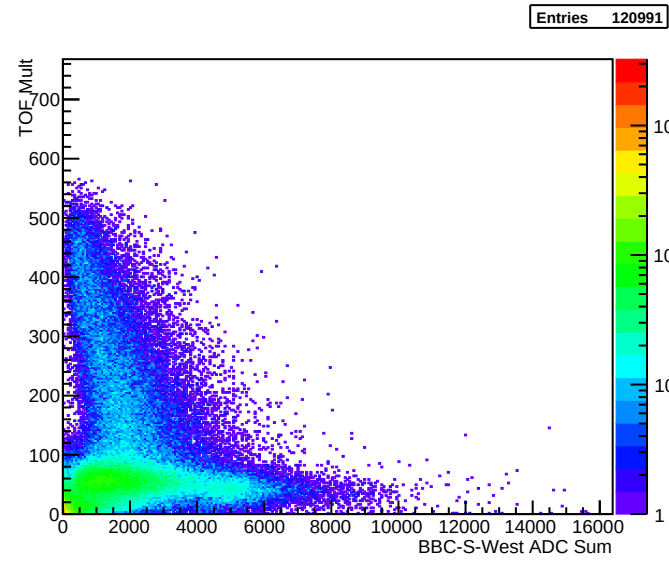

VT201 Input Ch4: VPD Tac Diff
Entries 120991
Tac

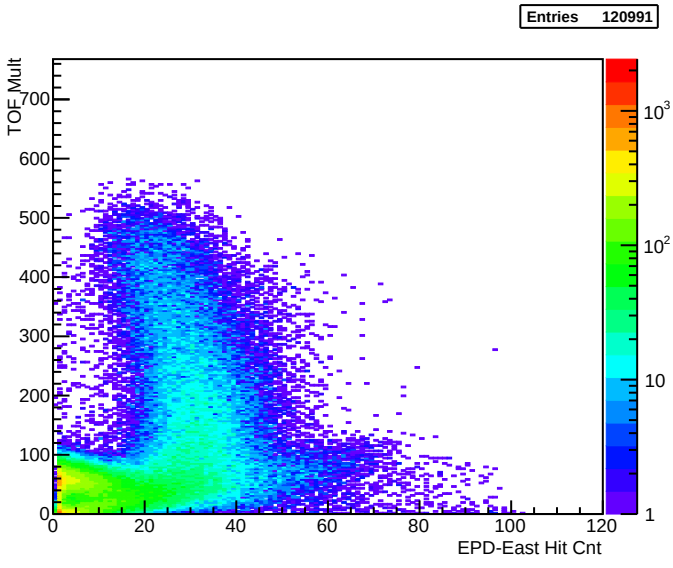

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

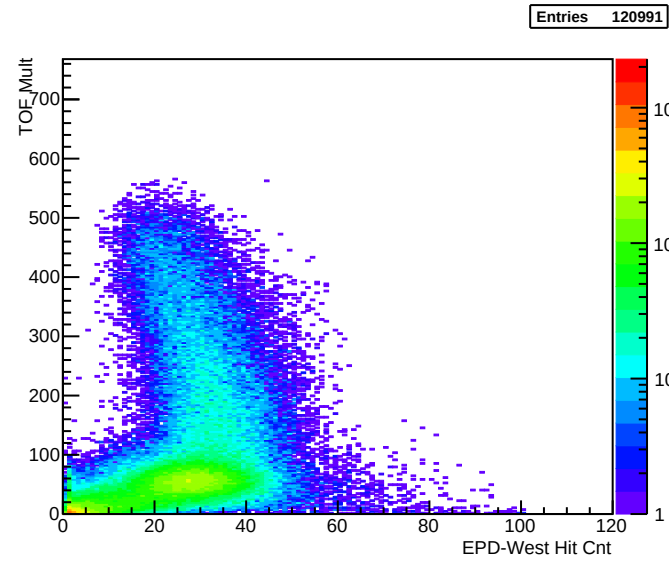

VT201 Input Ch4: VPD Adc Sum Th
Entries 241982
65566
100013
55425
20978
East
West

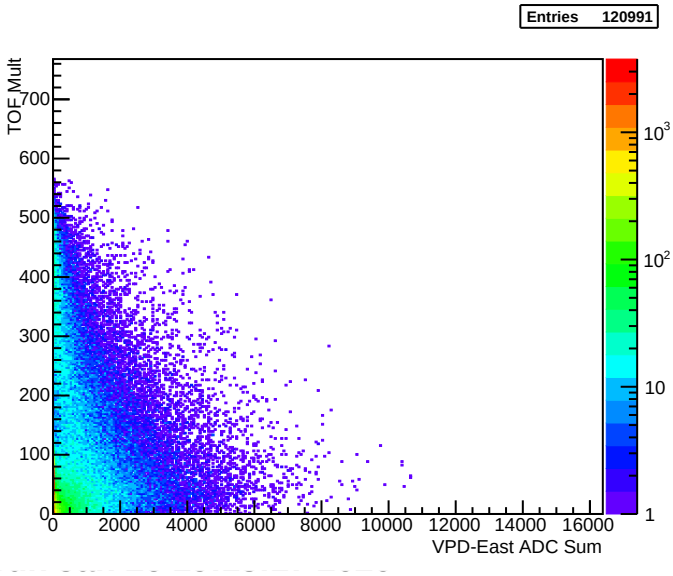

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

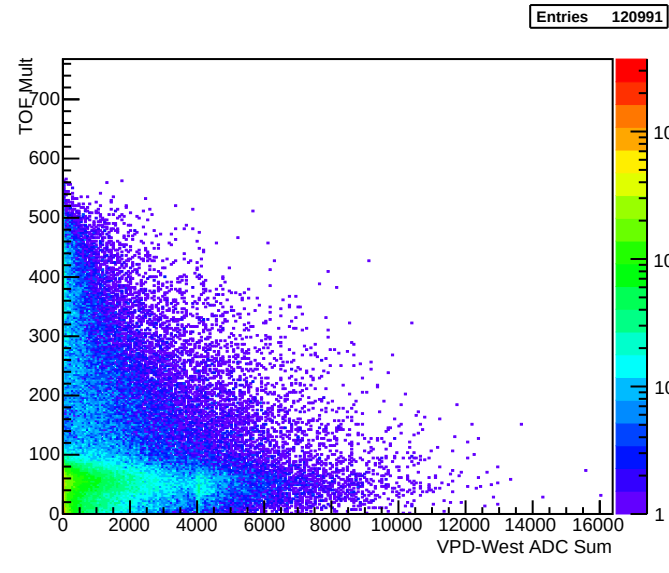

Entries 120991
TOF_Mult
BBC-S-East ADC Sum

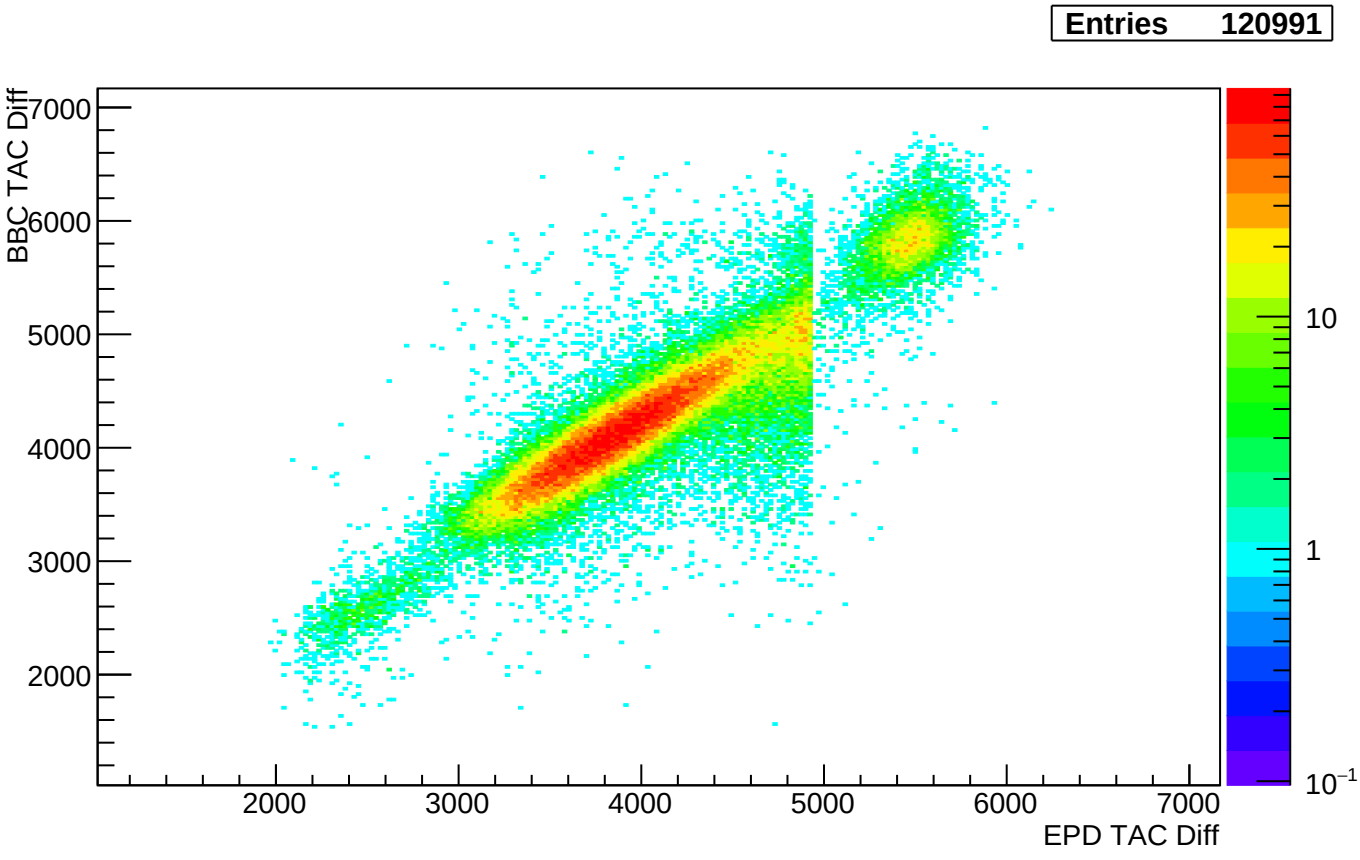

Entries 120991
TOF_Mult
BBC-S-West ADC Sum

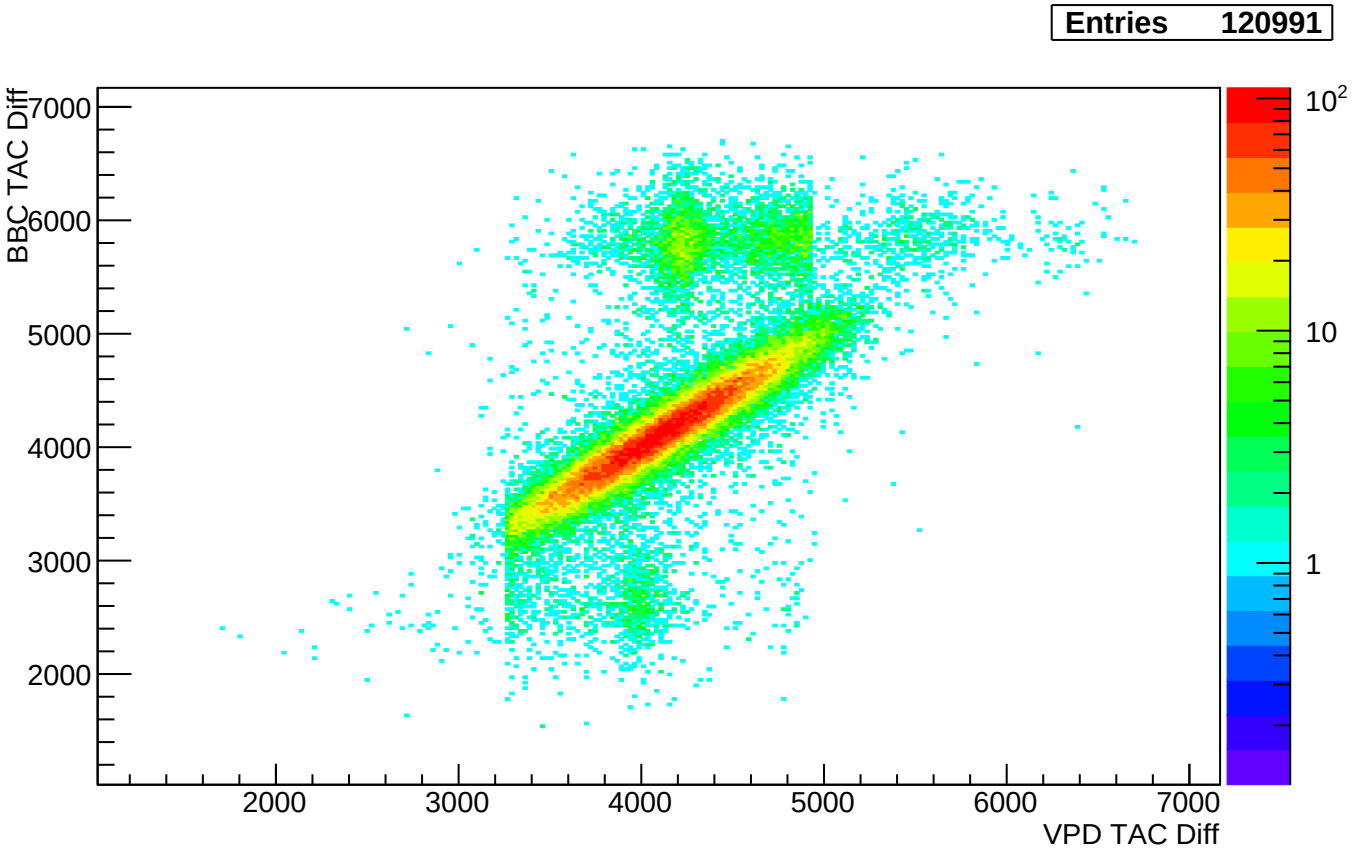

Entries 120991
TOF_Mult
EPD-East Hit Cnt

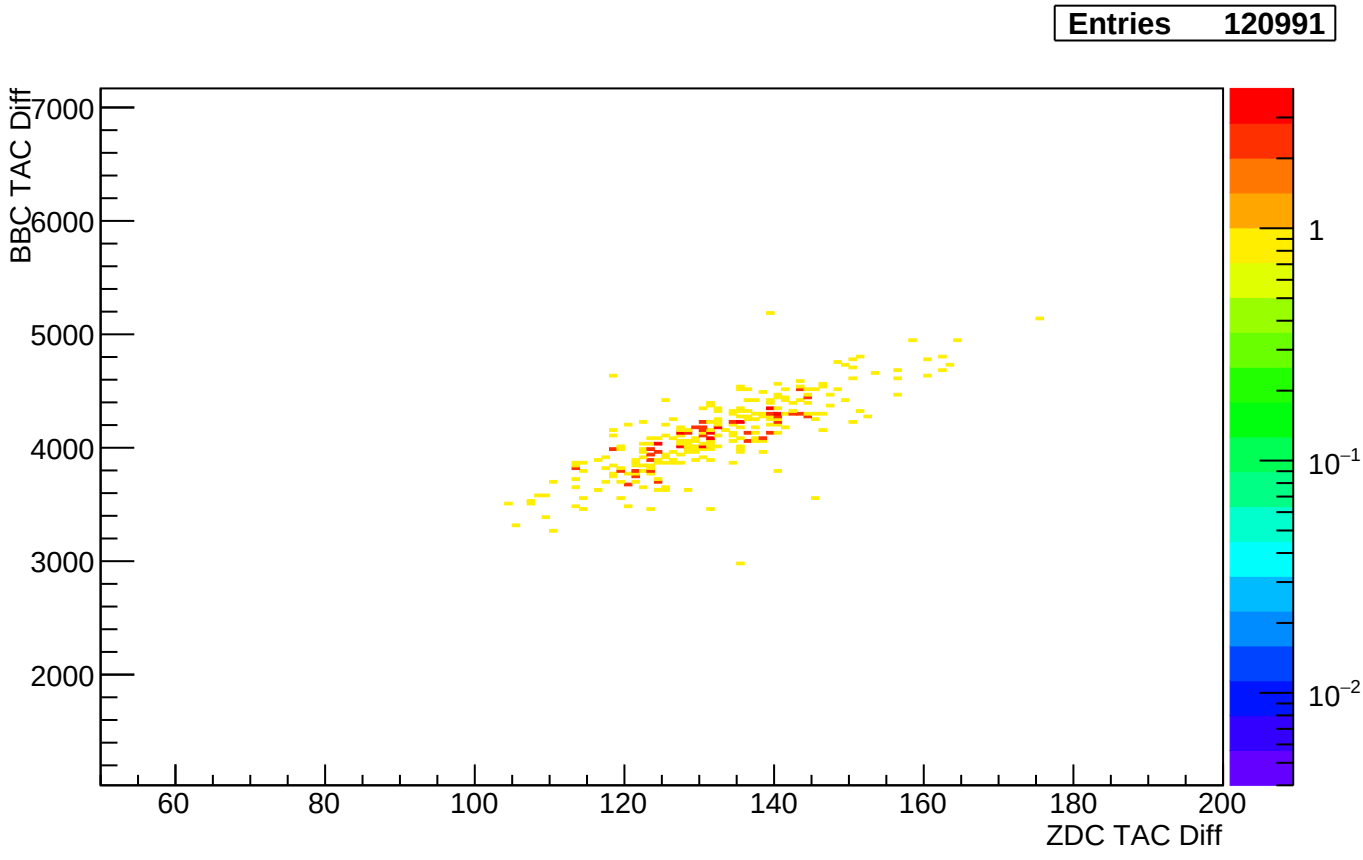

Entries 120991
TOF_Mult
EPD-West Hit Cnt

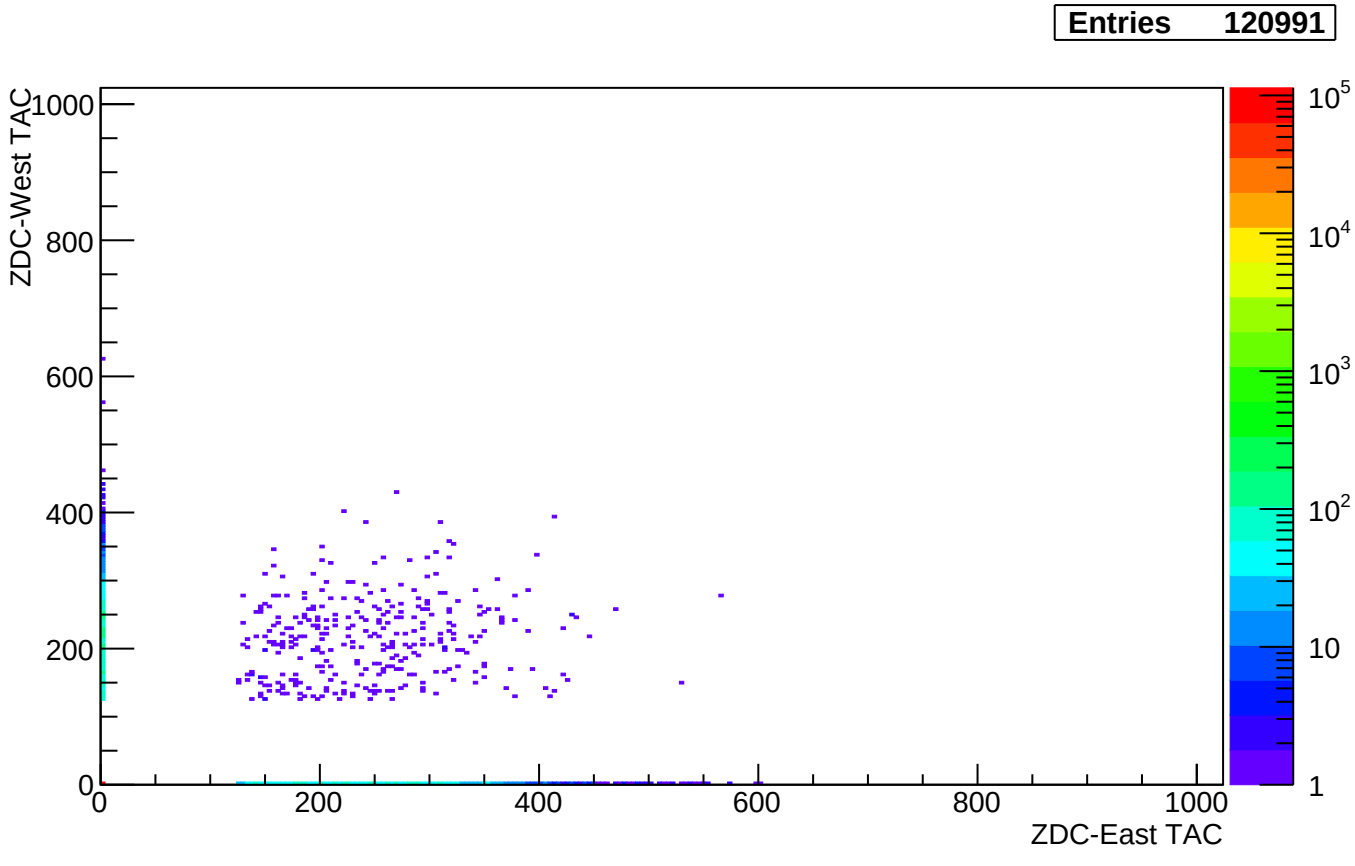

Entries 120991
TOF_Mult
VPD-East ADC Sum

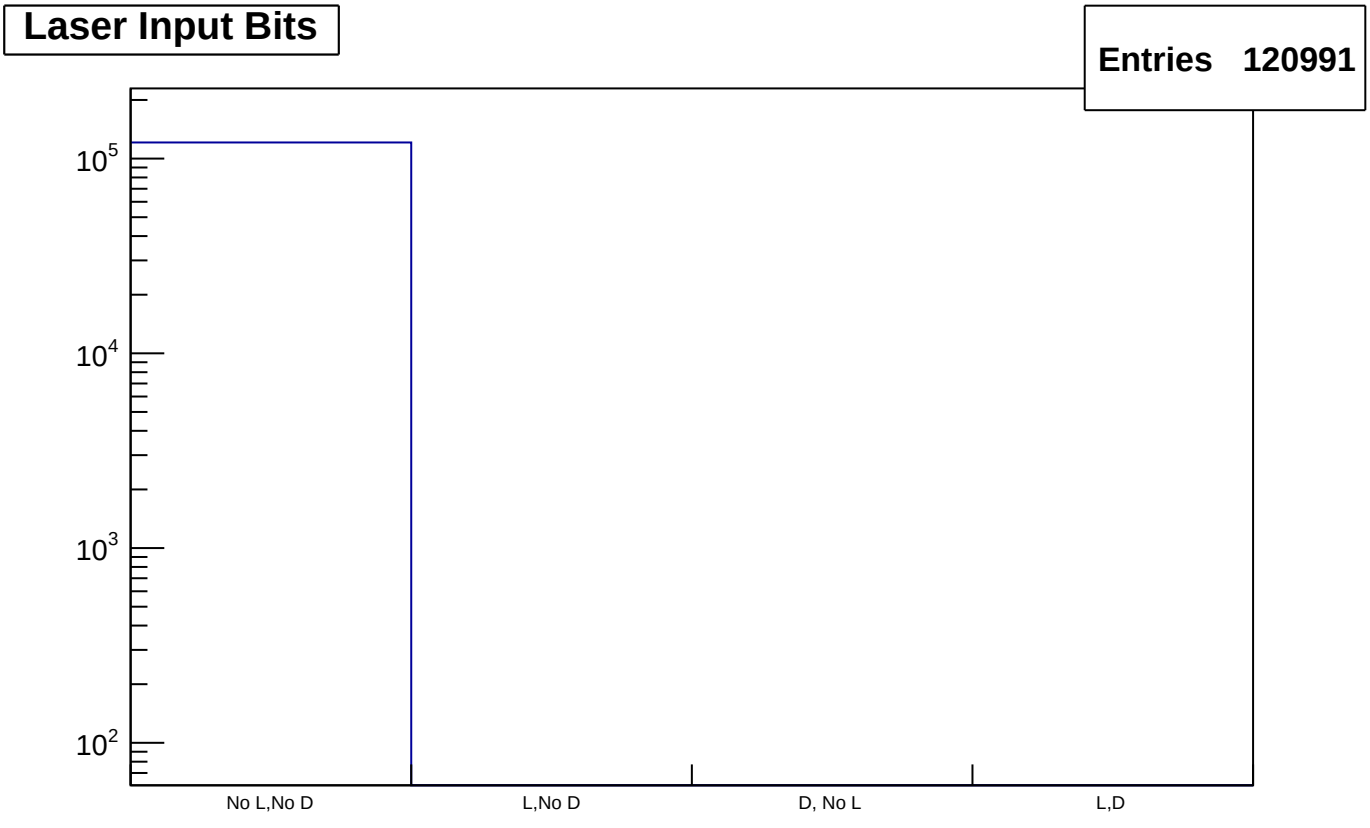

Entries 120991
TOF_Mult
VPD-West ADC Sum

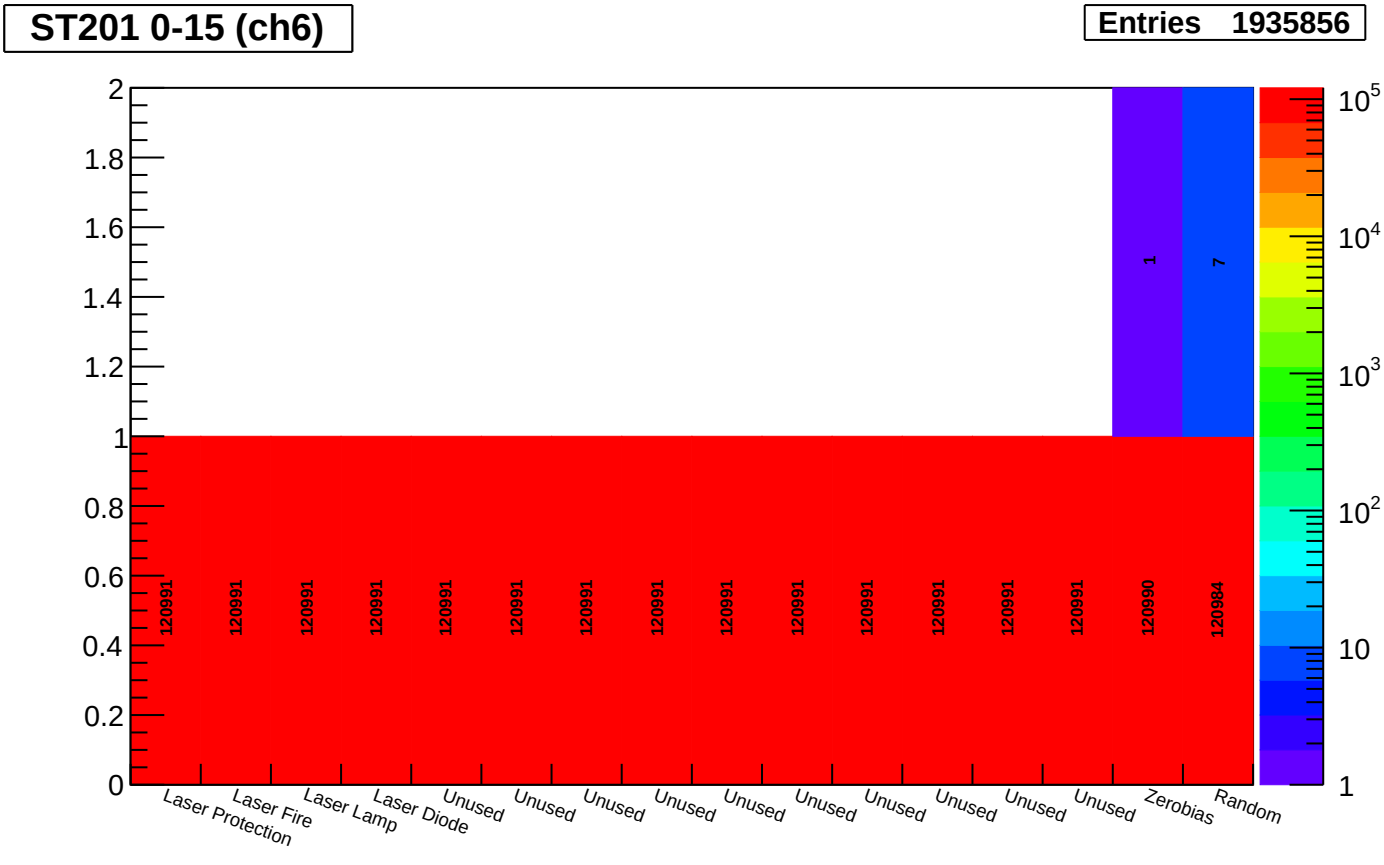

Entries 120991
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10
1
$10^{-1}$

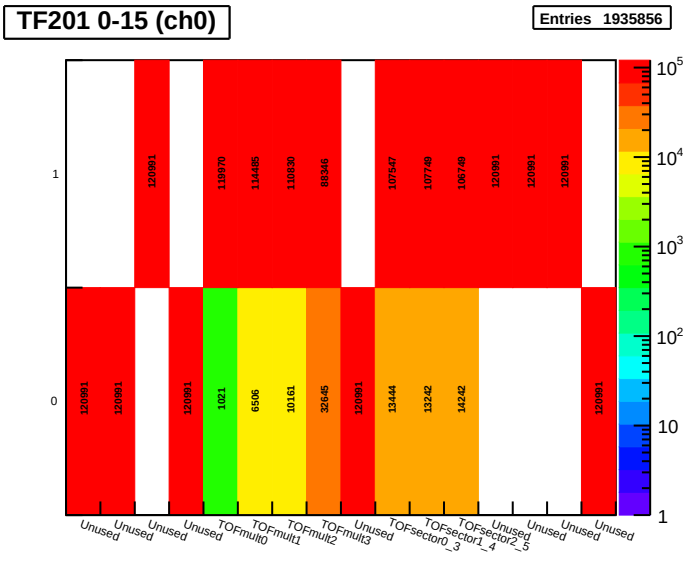

Entries 120991
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
$10^{2}$
10
1

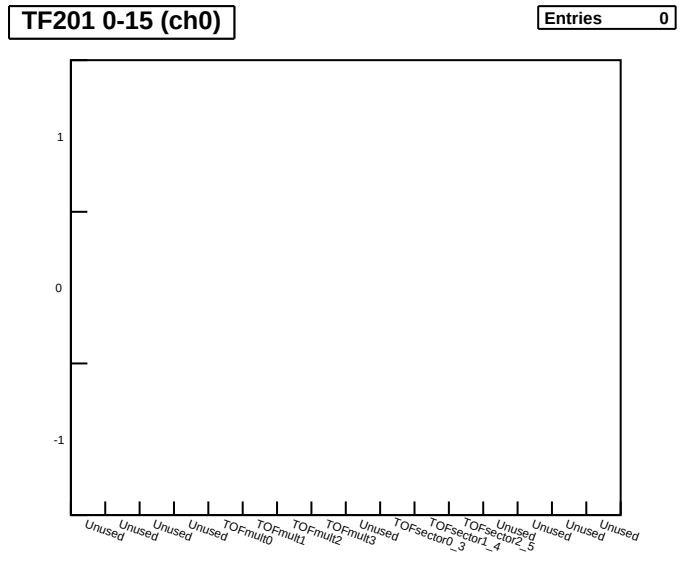

Entries 120991
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
$10^{-1}$
$10^{-2}$

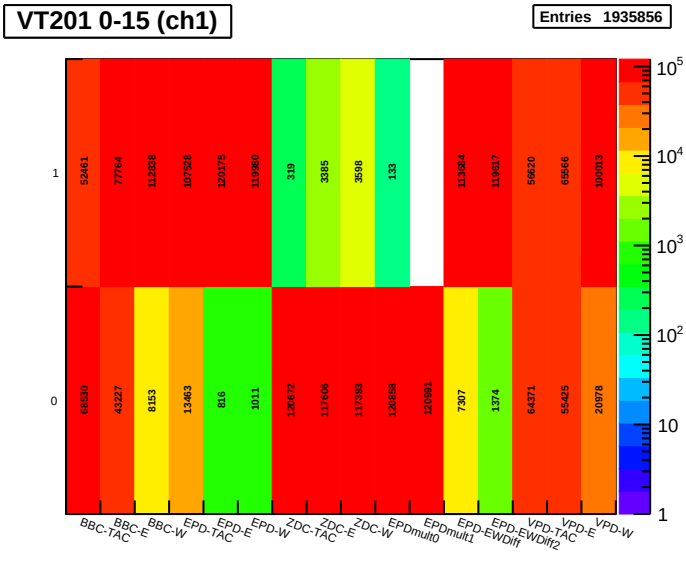

Entries 120991
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
$10^5$
$10^4$
$10^3$
$10^2$
10
1

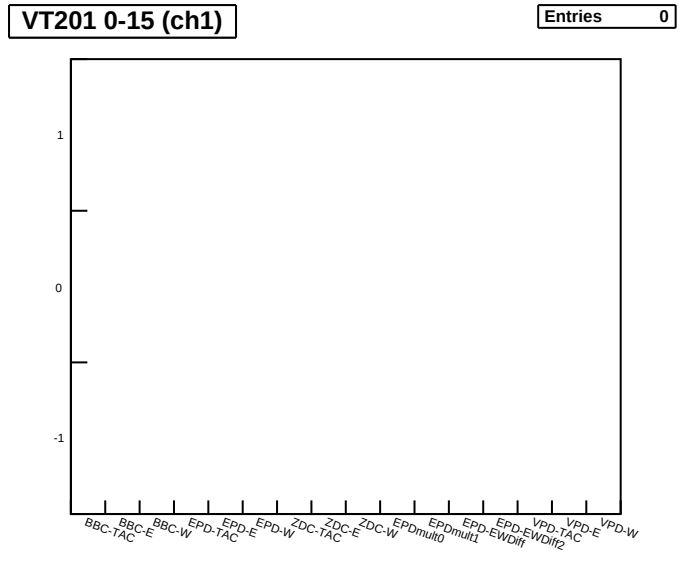

Laser Input Bits
Entries 120991
$10^5$
$10^4$
$10^3$
$10^2$
No L,No D
L,No D
D, No L
L,D

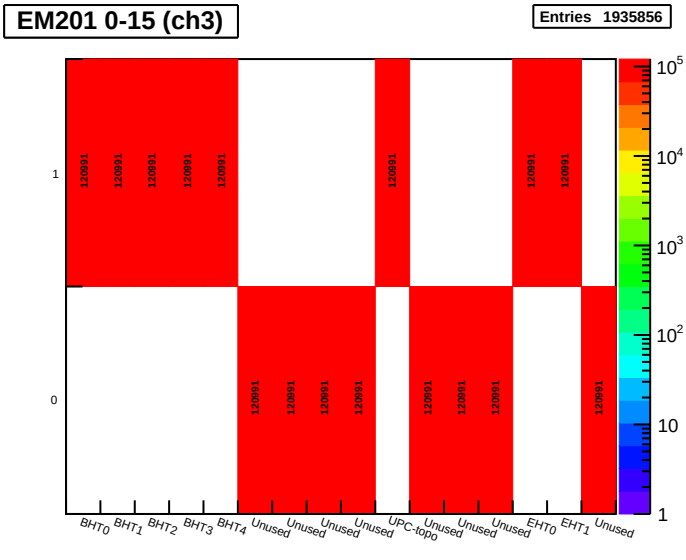

ST201 0-15 (ch6)
Entries 1935856
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
120991
120991
120991
120991
120991
120991
120991
120991
120991
120991
120991
120991
120991
120991
120990
120984
1
7
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
$10^5$
$10^4$
$10^3$
$10^2$
10
1

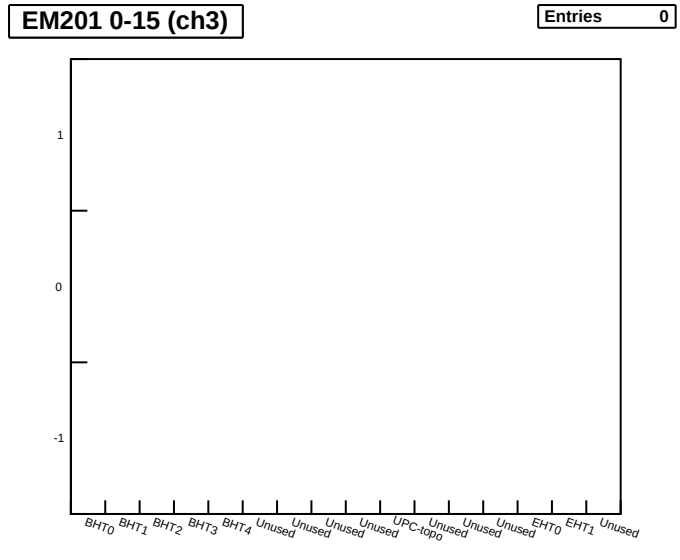

TF201 0-15 (ch0)
Entries 1935856
1
0
120991 120991 120991 1021 6506 10161 32645 120991 13444 13242 14242 120991
120991 114485 110830 88346 107547 107749 106749 120991 120991 120991
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
$10^5$ $10^4$ $10^3$ $10^2$ 10 1


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


VT201 0-15 (ch1)
Entries 1935856
1
0
52461 77764 112838 107528 120175 119980 319 3385 3598 133 113684 119617 56620 65566 100013
68530 43227 8153 13463 816 1011 120672 117606 117393 120858 120991 7307 1374 64371 55425 20978
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 1935856
1
0
120991 120991 120991 120991 120991 120991 120991 120991 120991
120991 120991 120991 120991 120991 120991 120991 120991
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