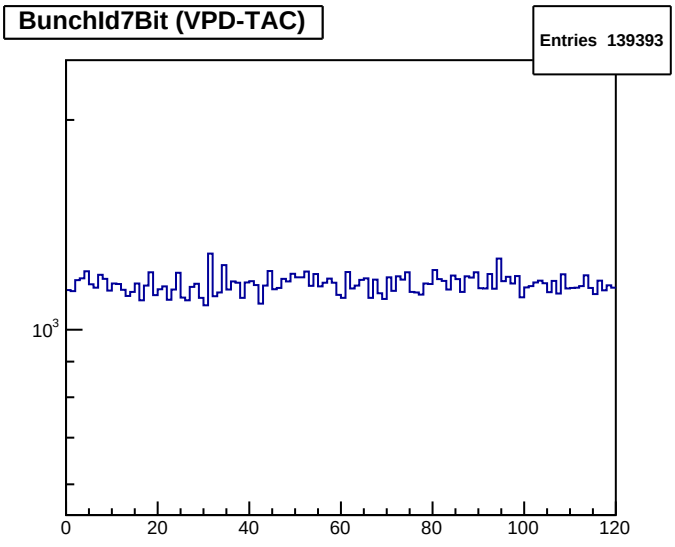
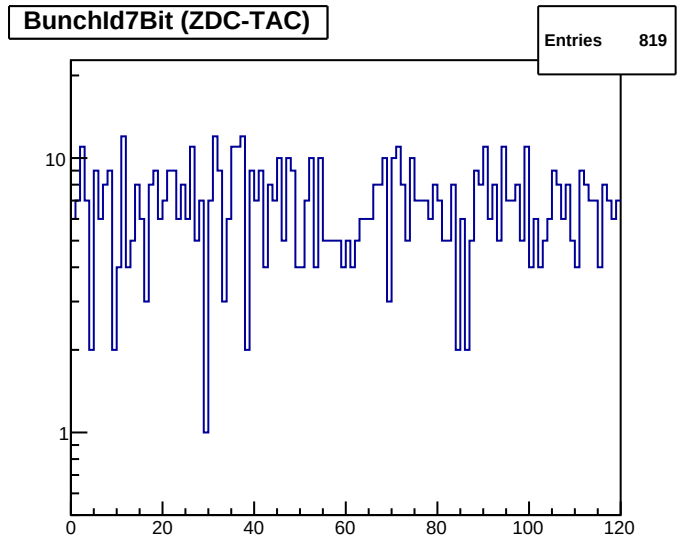
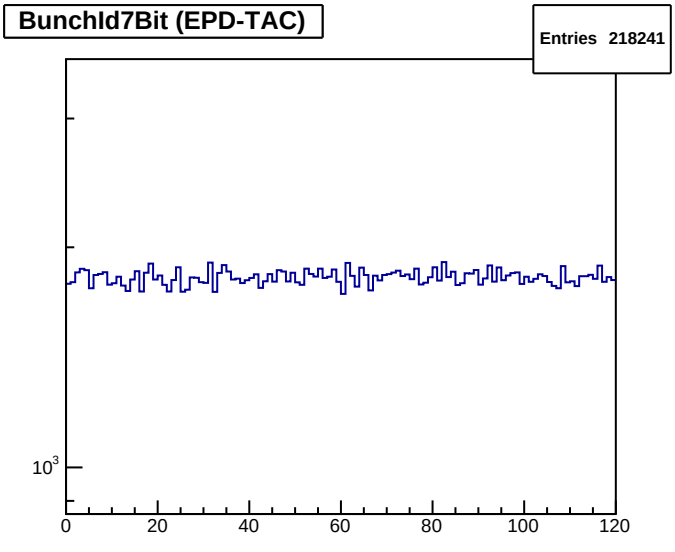
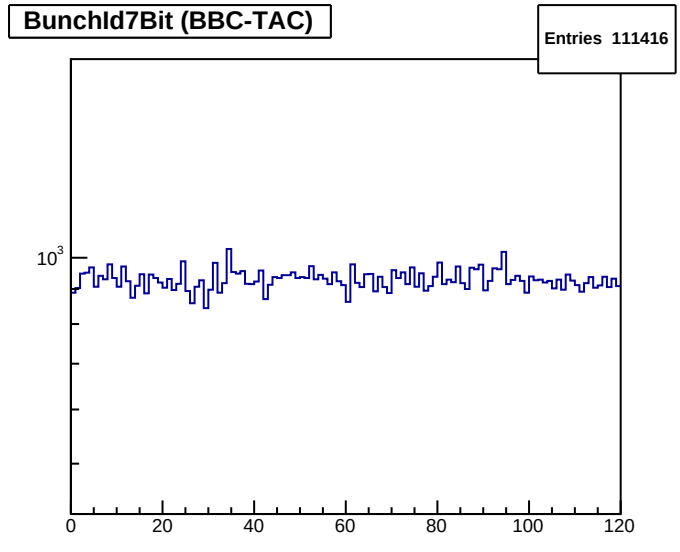
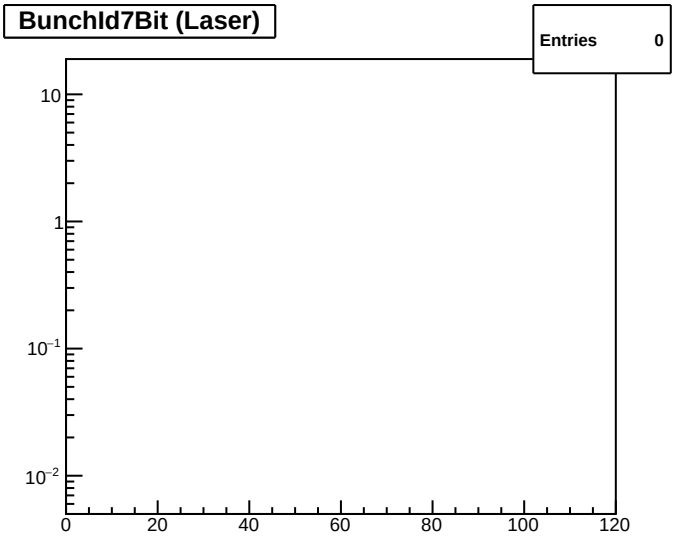
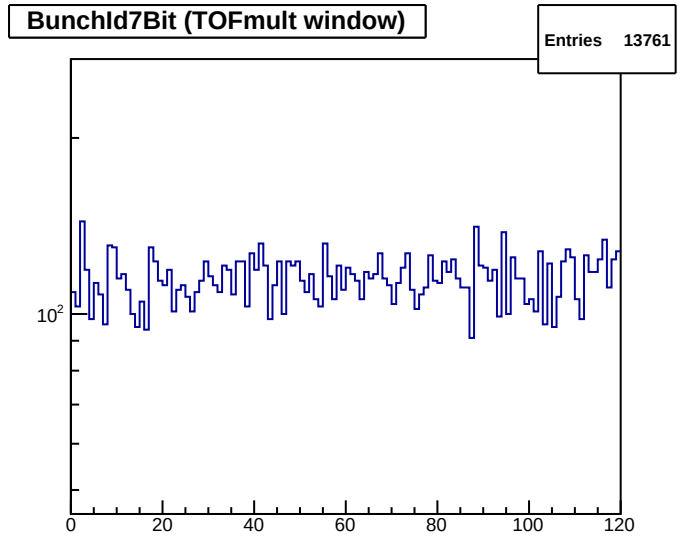

BunchId7Bit (VPD-TAC)
Entries 139393
10^3
0 20 40 60 80 100 120

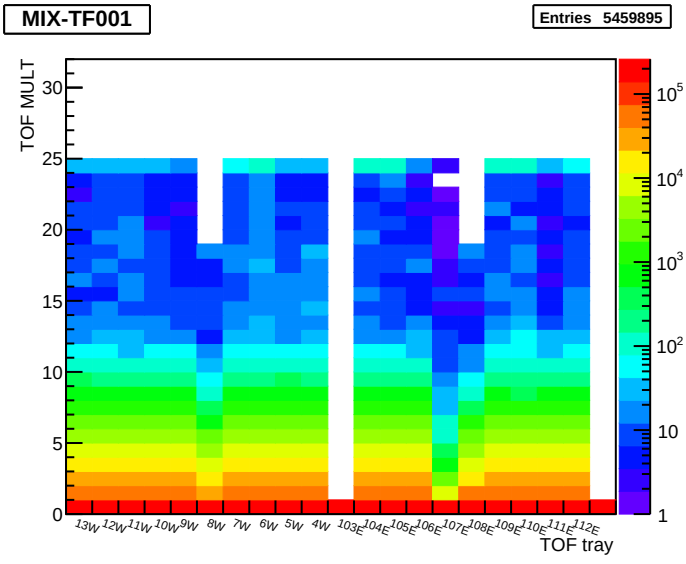

BunchId7Bit (ZDC-TAC)
Entries 819
10
1
0 20 40 60 80 100 120

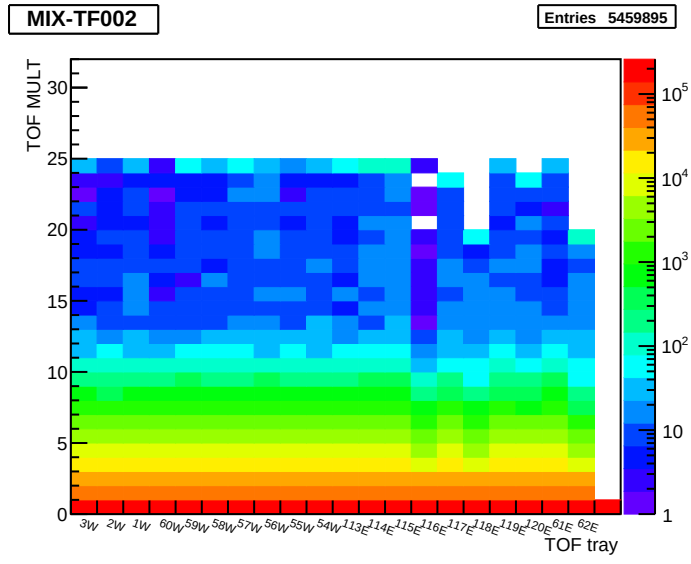

BunchId7Bit (EPD-TAC)
Entries 218241
10^3
0 20 40 60 80 100 120

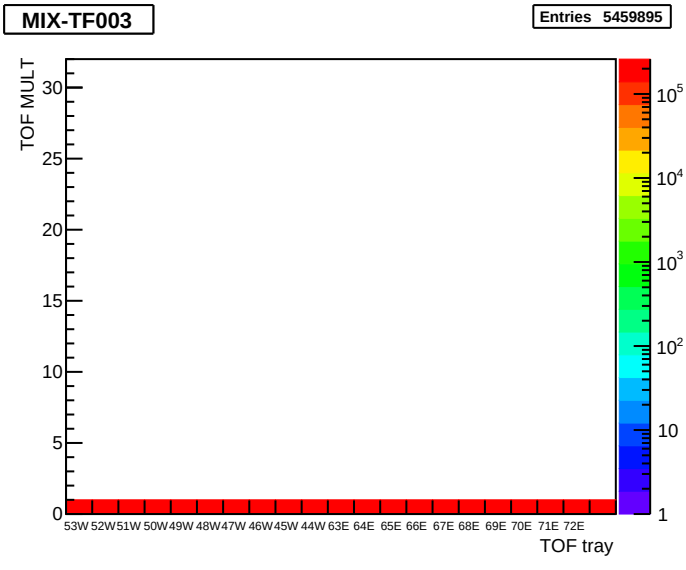

BunchId7Bit (BBC-TAC)
Entries 111416
10^3
0 20 40 60 80 100 120

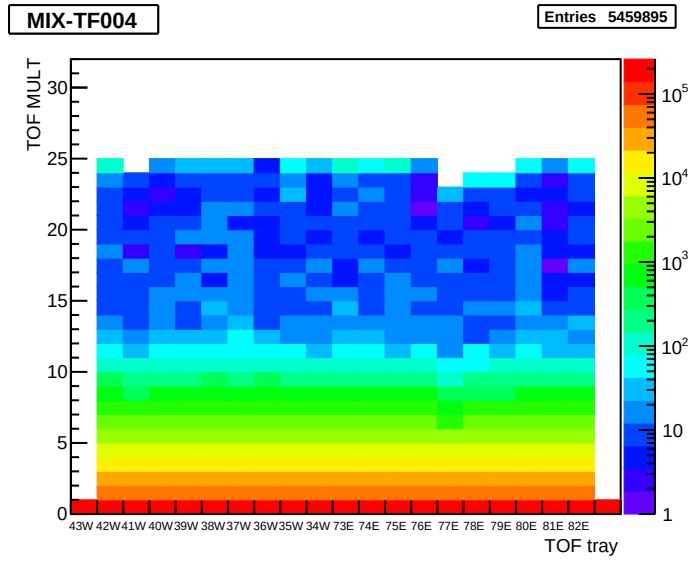

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

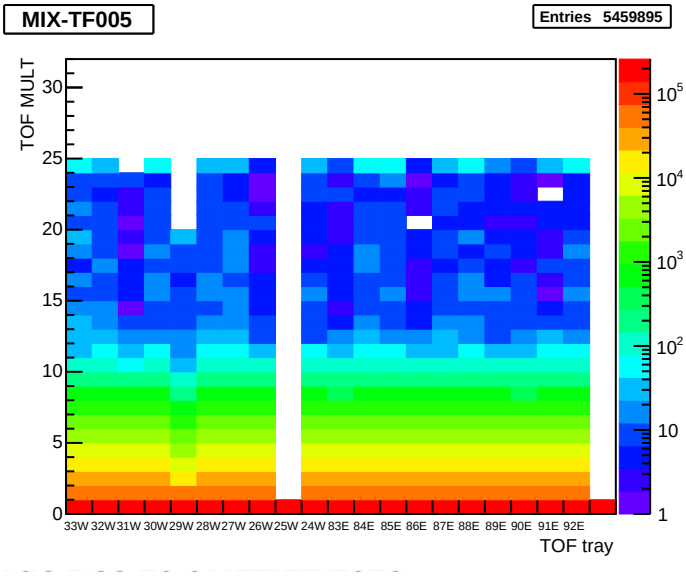

BunchId7Bit (TOFmult window)
Entries 13761
10^2
0 20 40 60 80 100 120

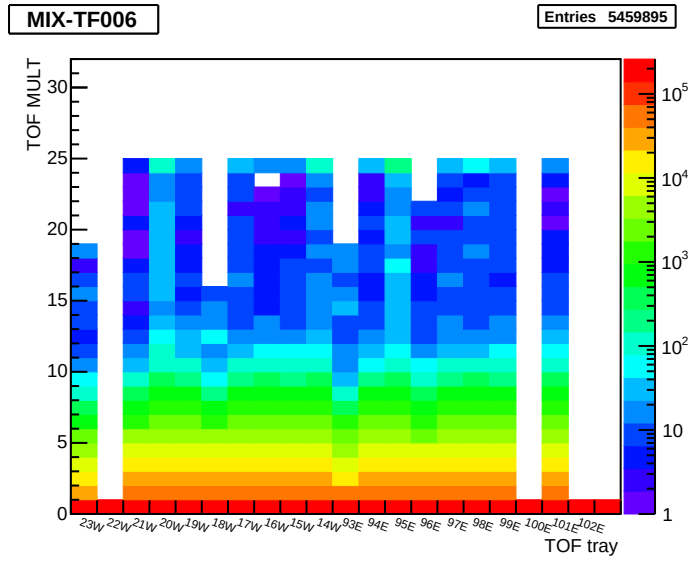

MIX-TF001
Entries 5459895
TOF MULT
TOF tray

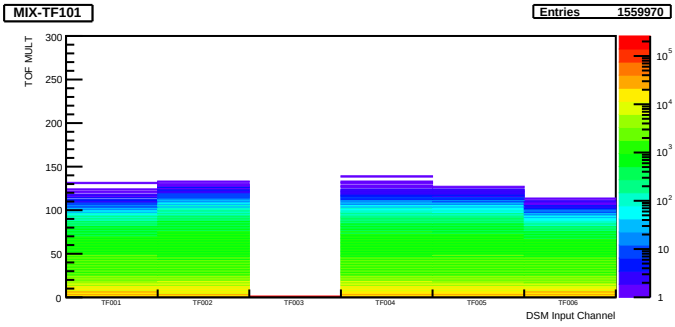

MIX-TF002
Entries 5459895
TOF MULT
TOF tray

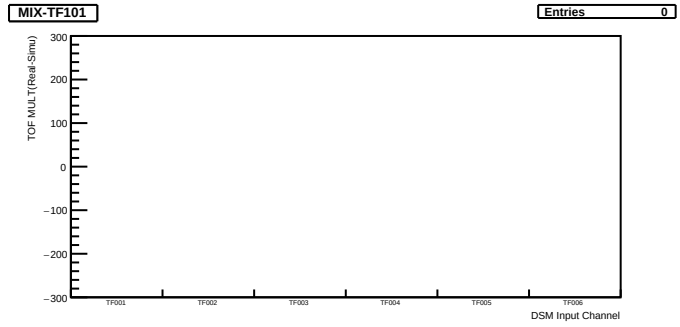

MIX-TF003
Entries 5459895
TOF MULT
TOF tray

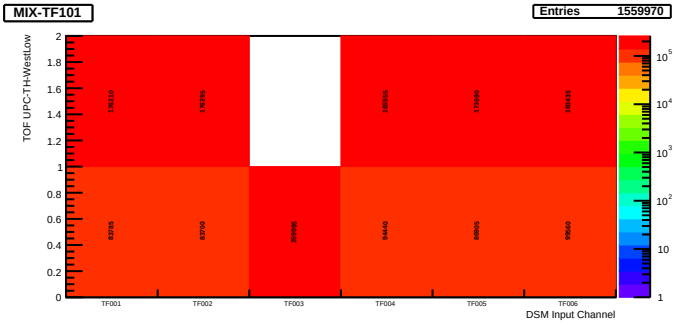

MIX-TF004
Entries 5459895
TOF MULT
TOF tray

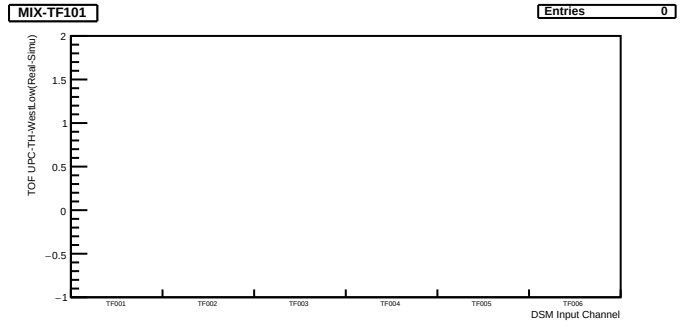

MIX-TF005
Entries 5459895
TOF MULT
TOF tray

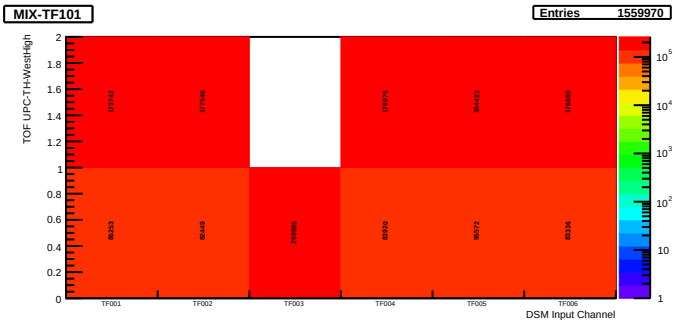

MIX-TF006
Entries 5459895
TOF MULT
TOF tray

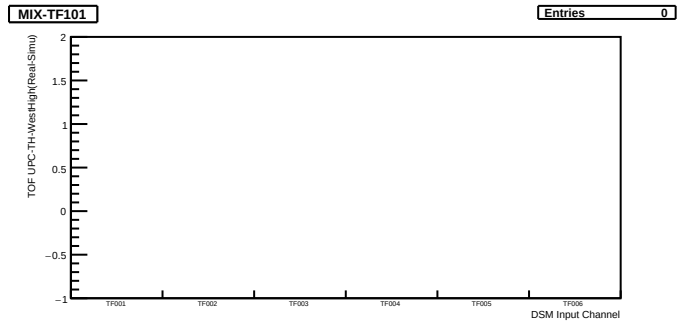

MIX-TF101
Entries 1559970
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

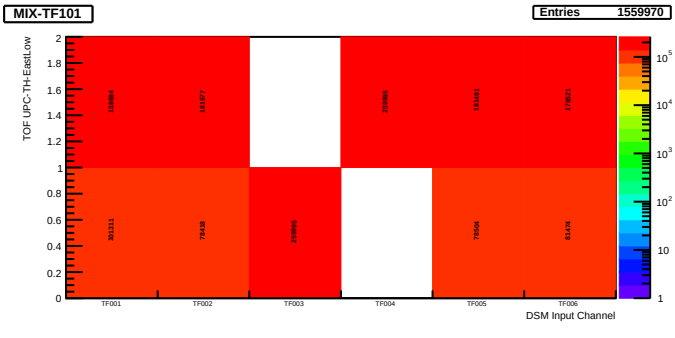

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

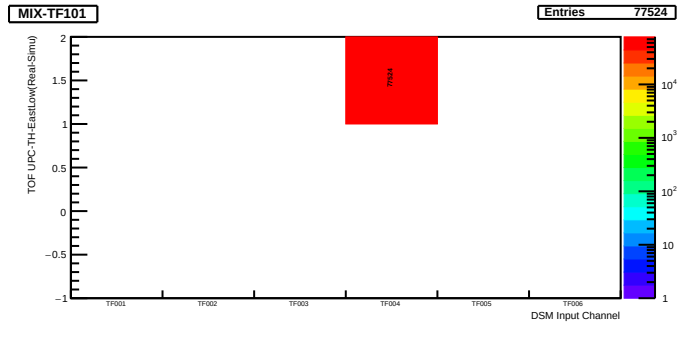

MIX-TF101
Entries 1559970
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

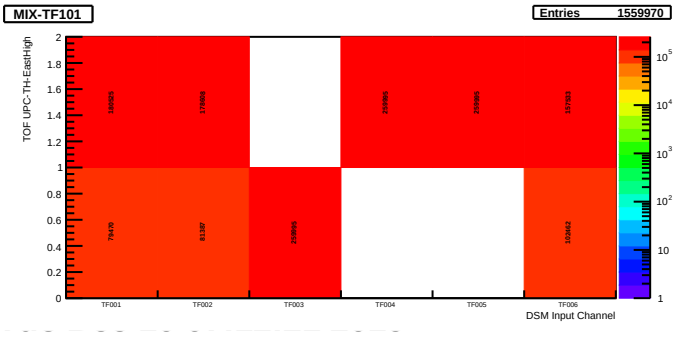

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

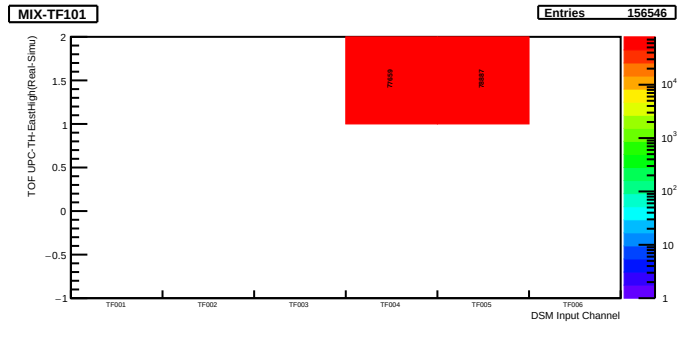

MIX-TF101
Entries 1559970
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

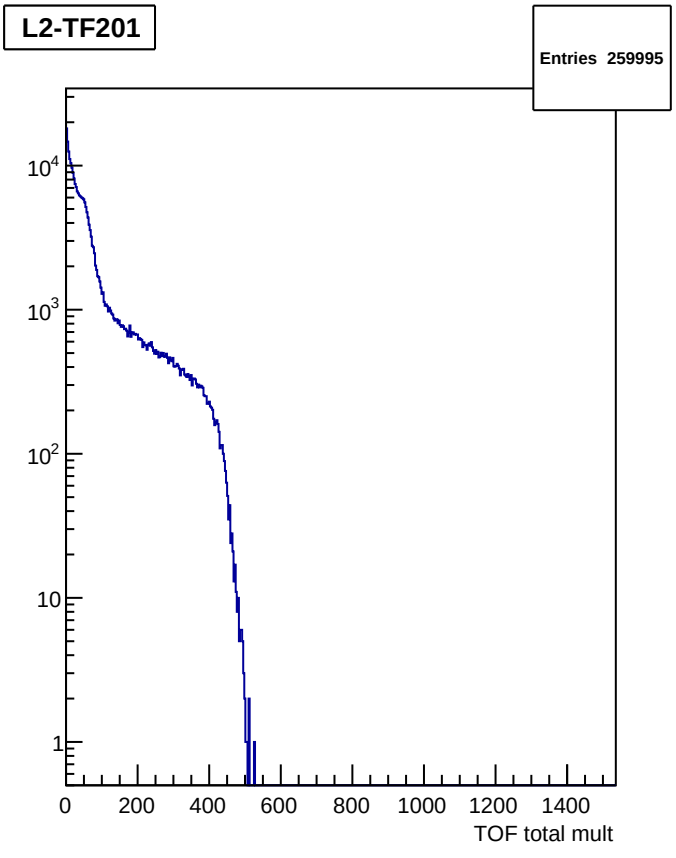

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

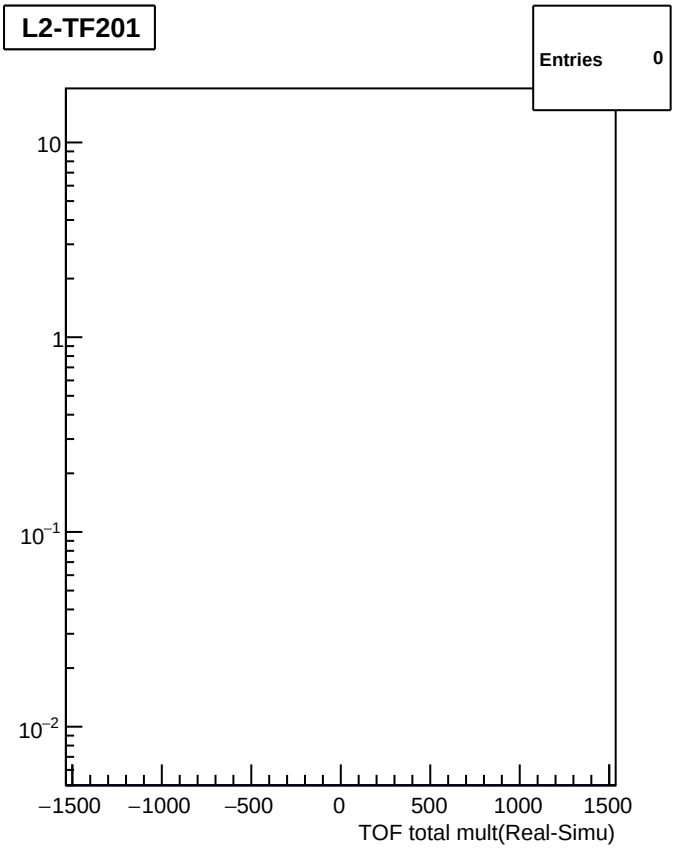

MIX-TF101
Entries 1559970
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

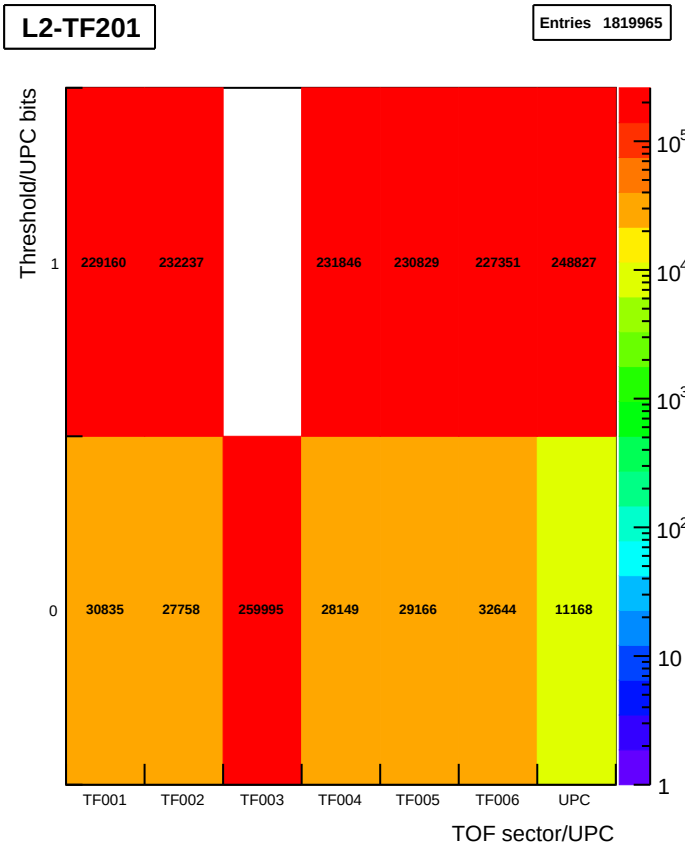

MIX-TF101
Entries 77524
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

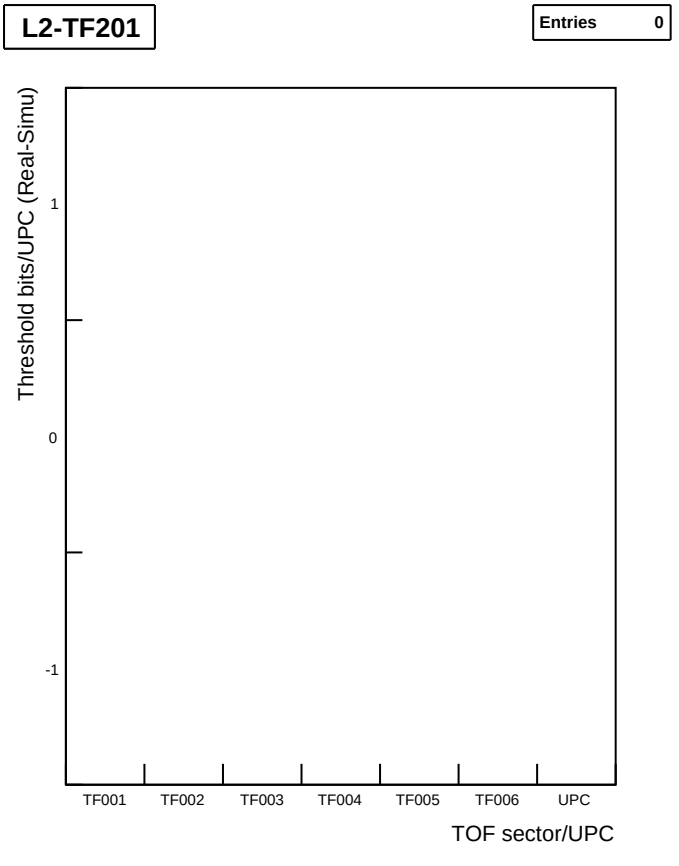

MIX-TF101
Entries 1559970
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

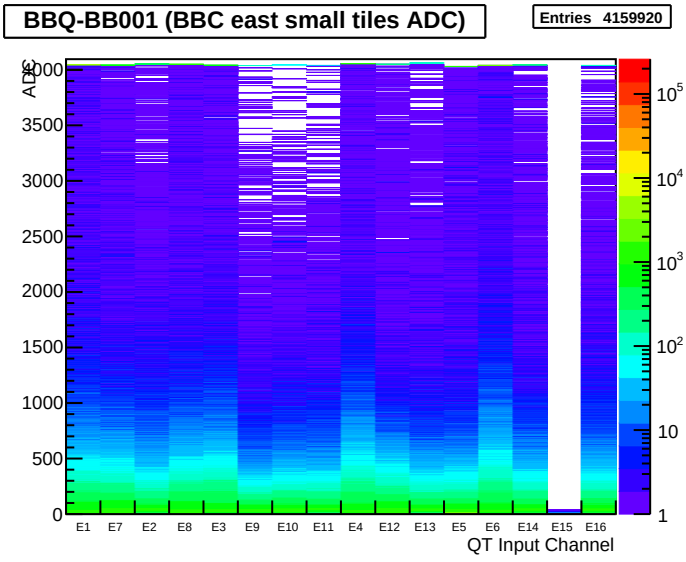

MIX-TF101
Entries 156546
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

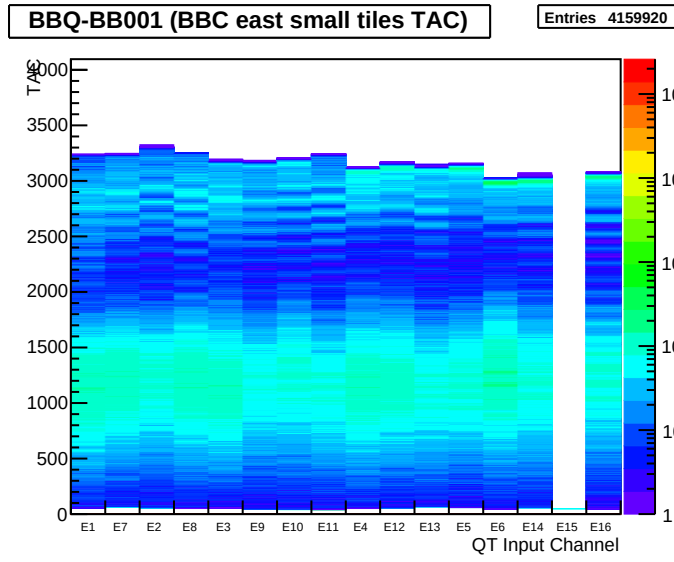

L2-TF201
Entries 259995
TOF total mult

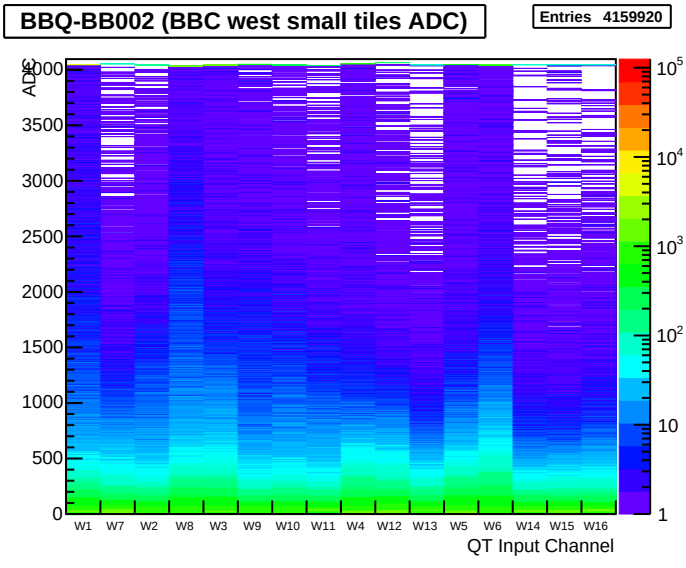

L2-TF201
Entries 0
TOF total mult(Real-Simu)

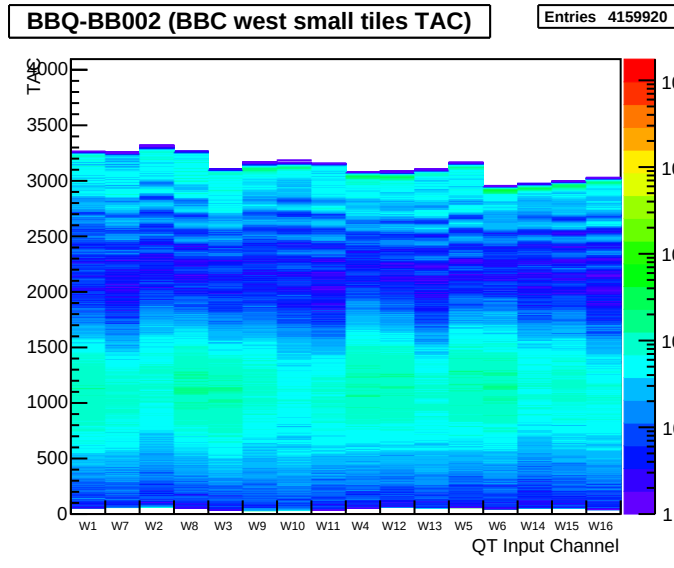

L2-TF201
Entries 1819965
Threshold/UPC bits
229160
232237
231846
230829
227351
248827
30835
27758
259995
28149
29166
32644
11168
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

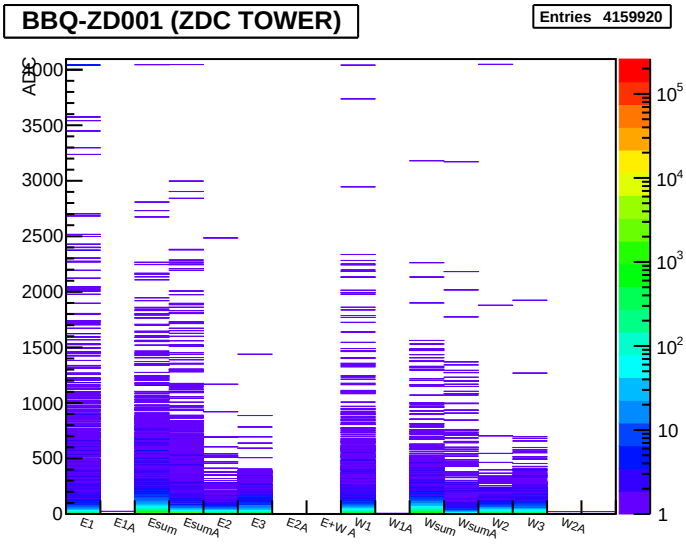

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

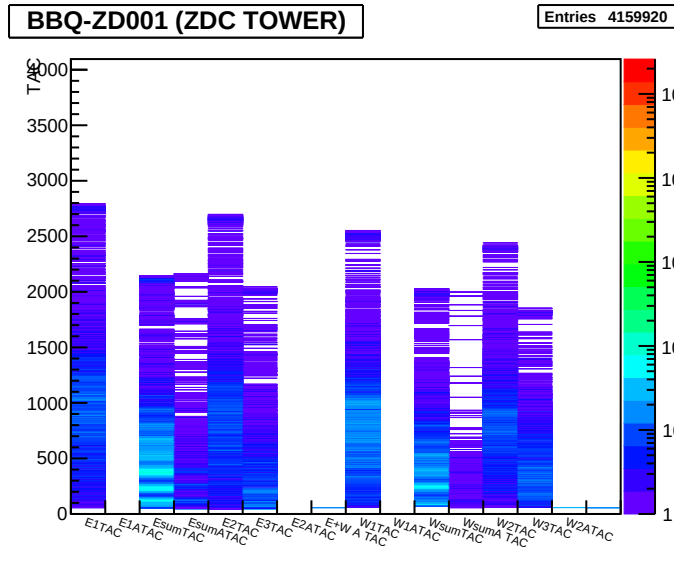

BBQ-BB001 (BBC east small tiles ADC)
Entries 4159920
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

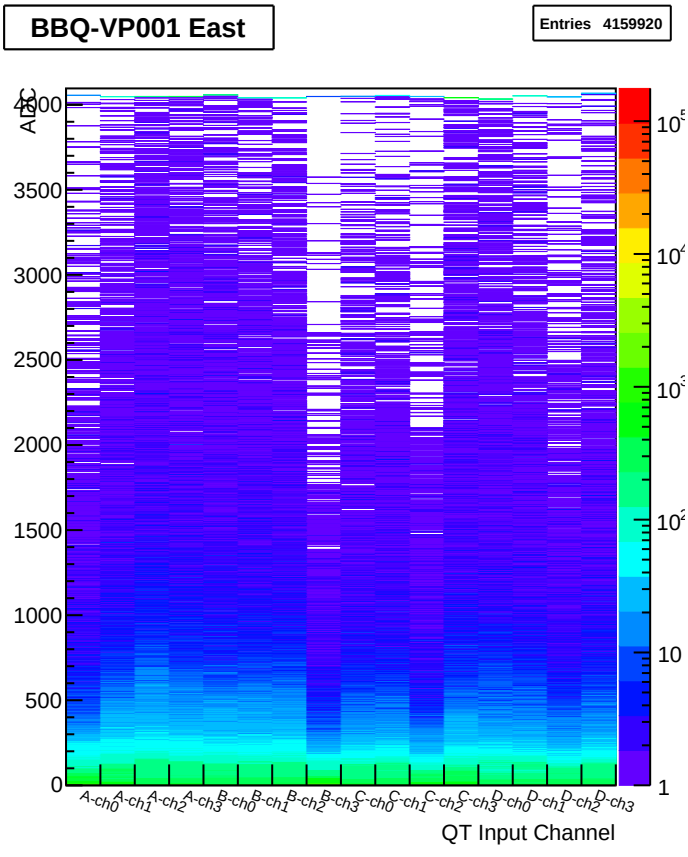

BBQ-BB001 (BBC east small tiles TAC)
Entries 4159920
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

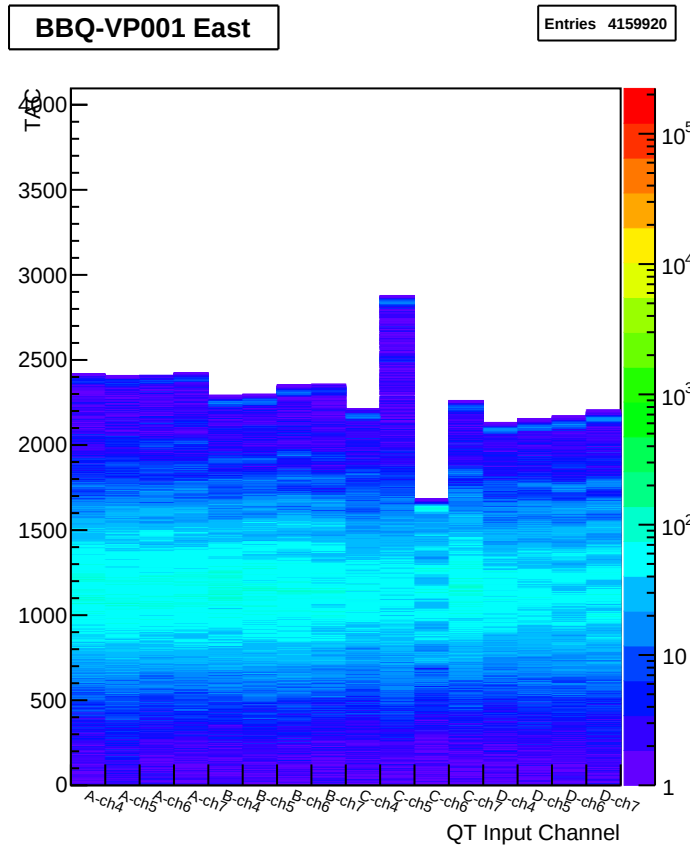

BBQ-BB002 (BBC west small tiles ADC)
Entries 4159920
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

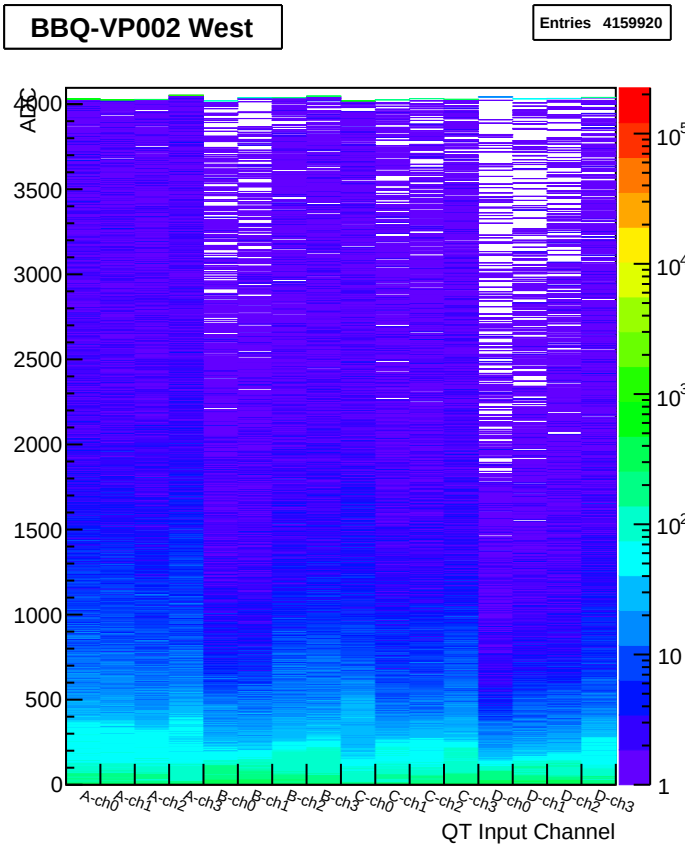

BBQ-BB002 (BBC west small tiles TAC)
Entries 4159920
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

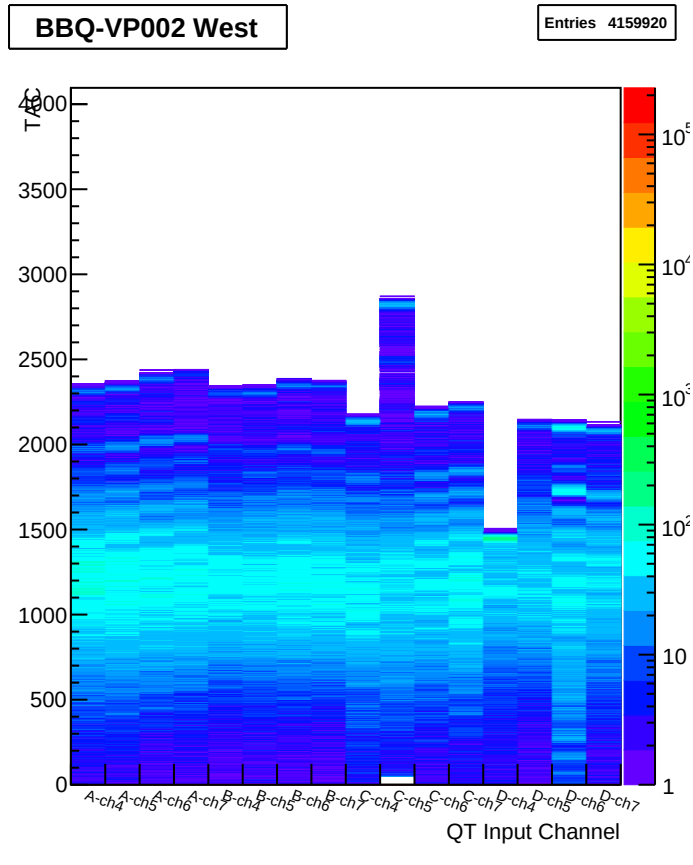

BBQ-ZD001 (ZDC TOWER)
Entries 4159920
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

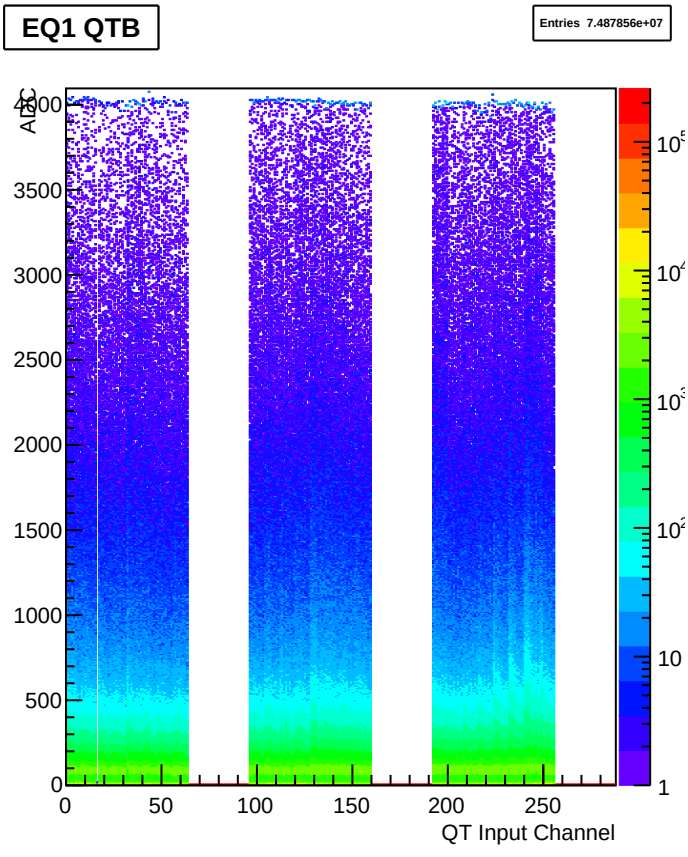

BBQ-ZD001 (ZDC TOWER)
Entries 4159920
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

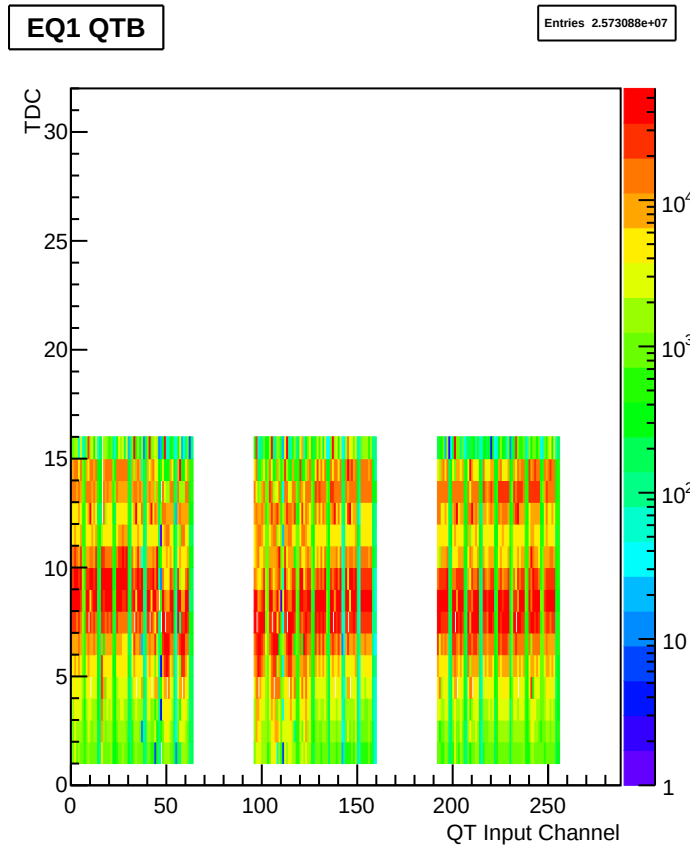

BBQ-VP001 East
Entries 4159920
ADC
QT Input Channel

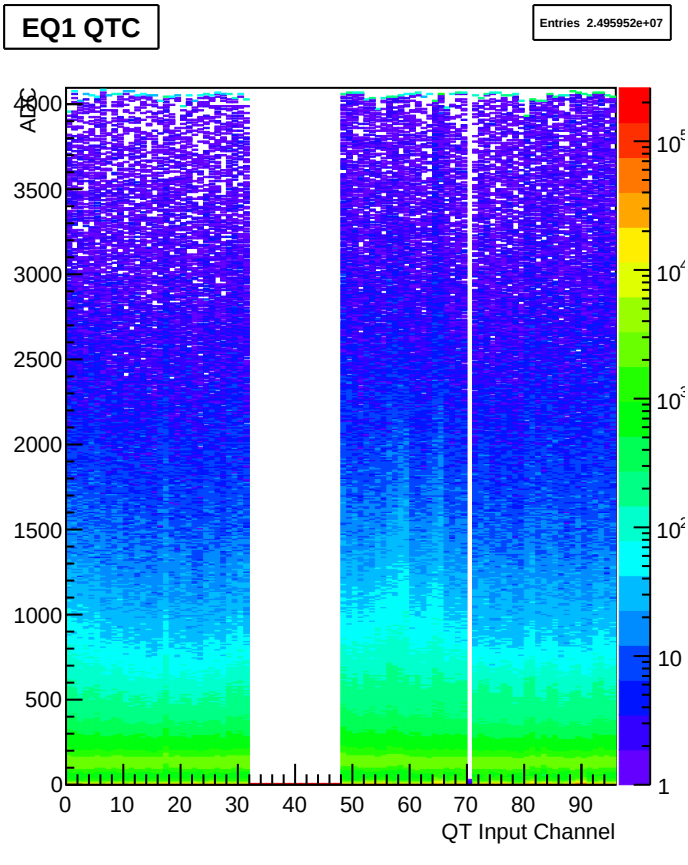

BBQ-VP001 East
Entries 4159920
ADC
QT Input Channel

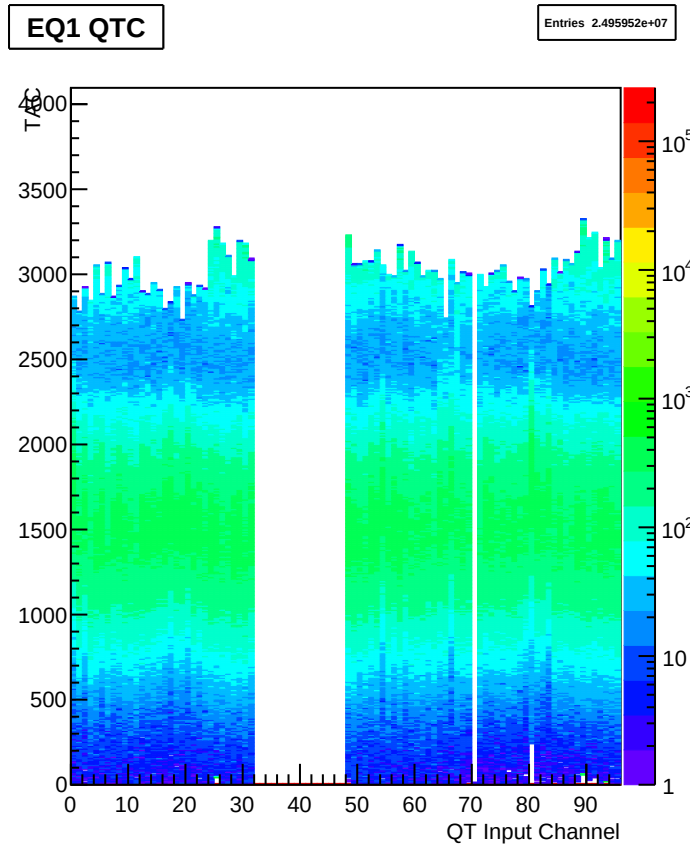

BBQ-VP002 West
Entries 4159920
ADC
QT Input Channel

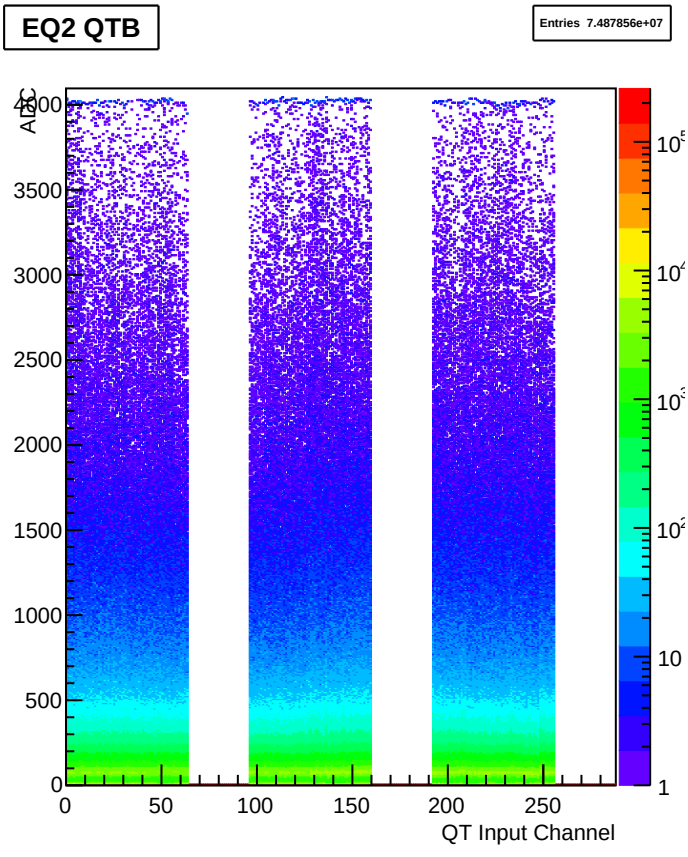

BBQ-VP002 West
Entries 4159920
ADC
QT Input Channel

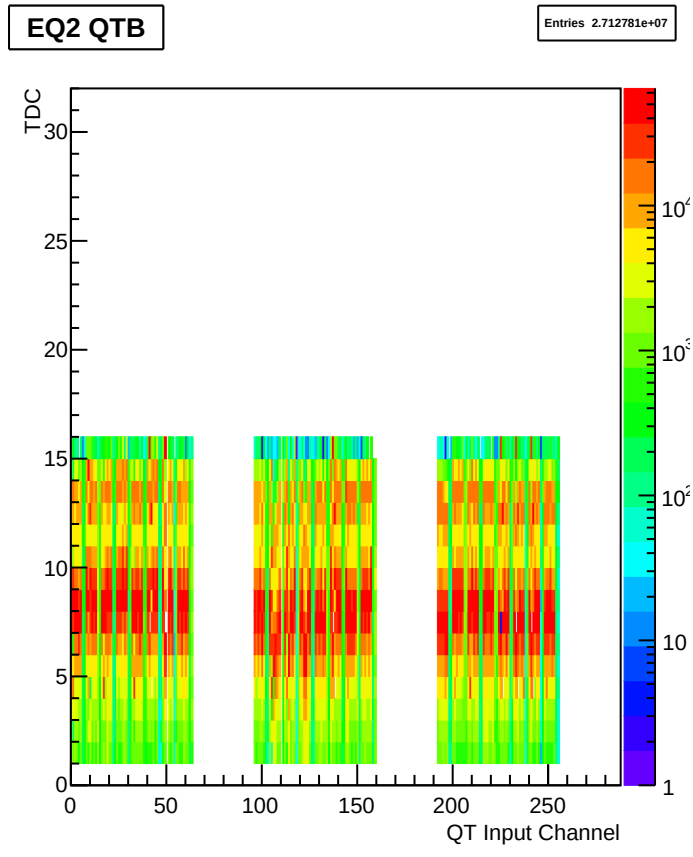

EQ1 QTB
Entries 7.487856e+07
ADC
QT Input Channel

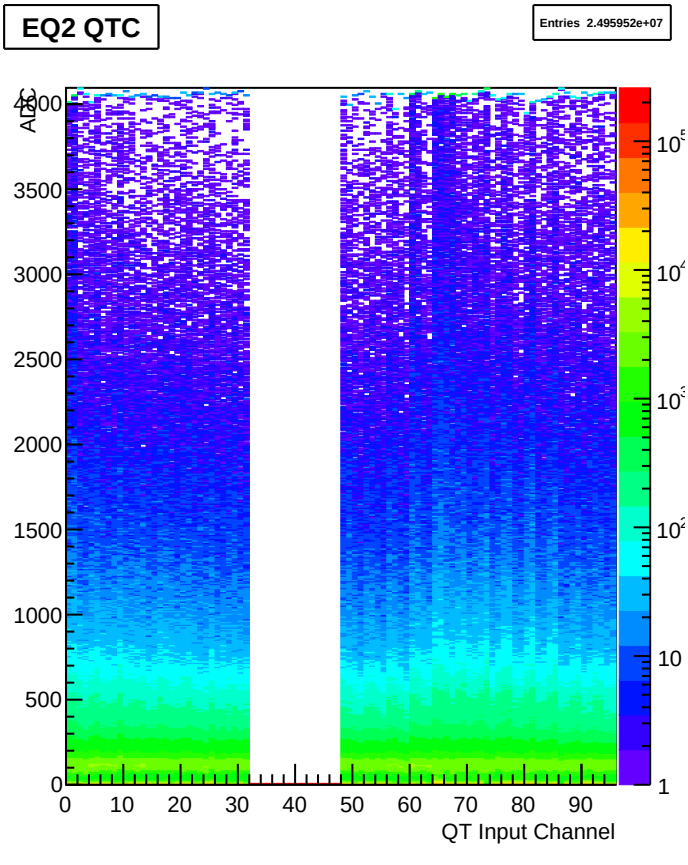

EQ1 QTB
Entries 2.573088e+07
TDC
QT Input Channel

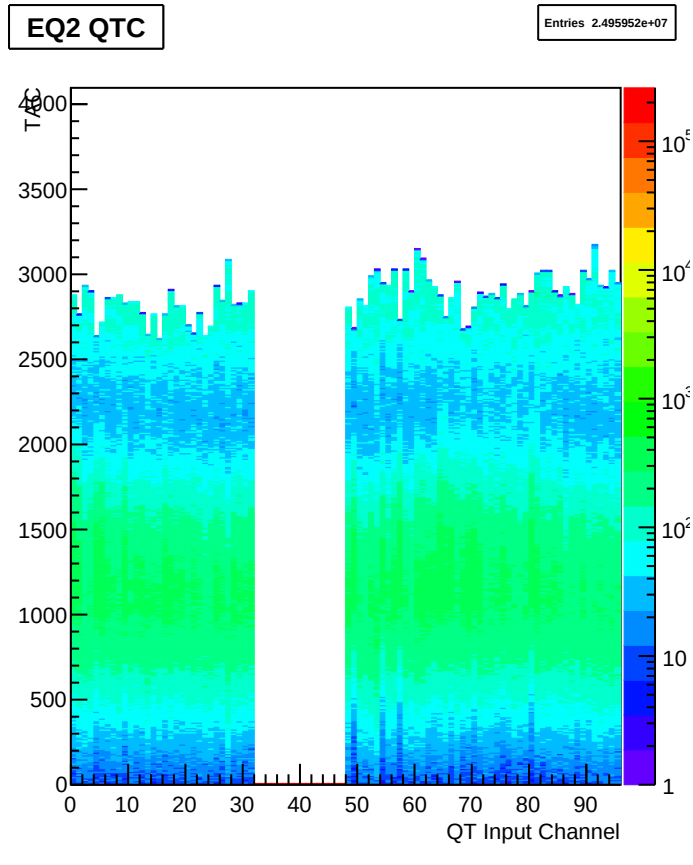

EQ1 QTC
Entries 2.495952e+07
ADC
QT Input Channel

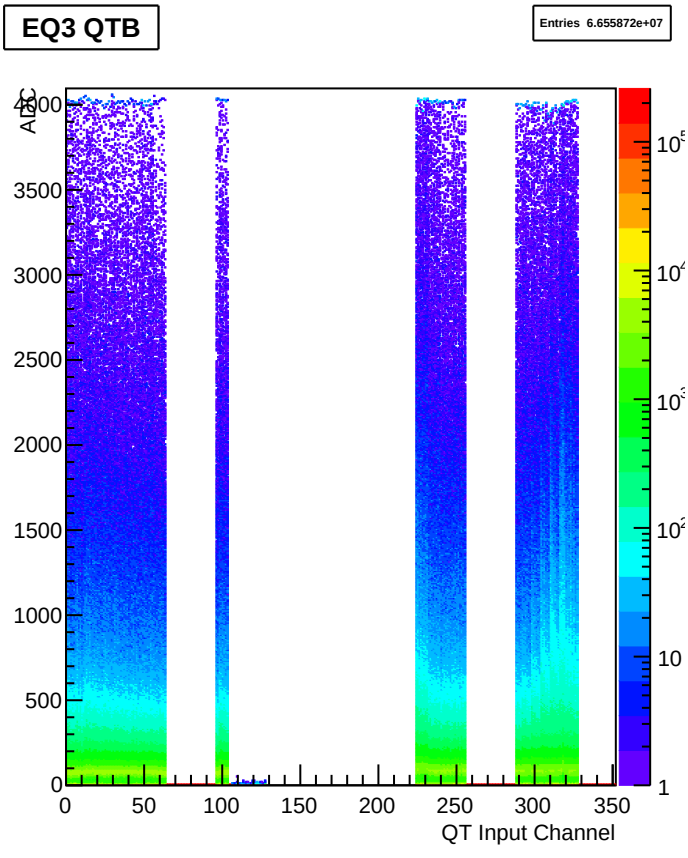

EQ1 QTC
Entries 2.495952e+07
TADC
QT Input Channel

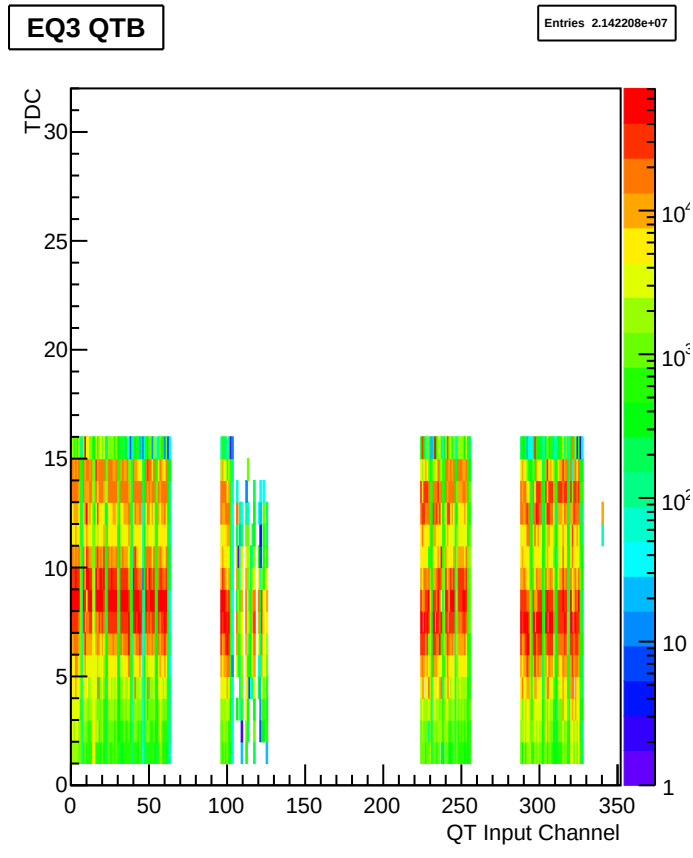

EQ2 QTB
Entries 7.487856e+07
ADC
QT Input Channel

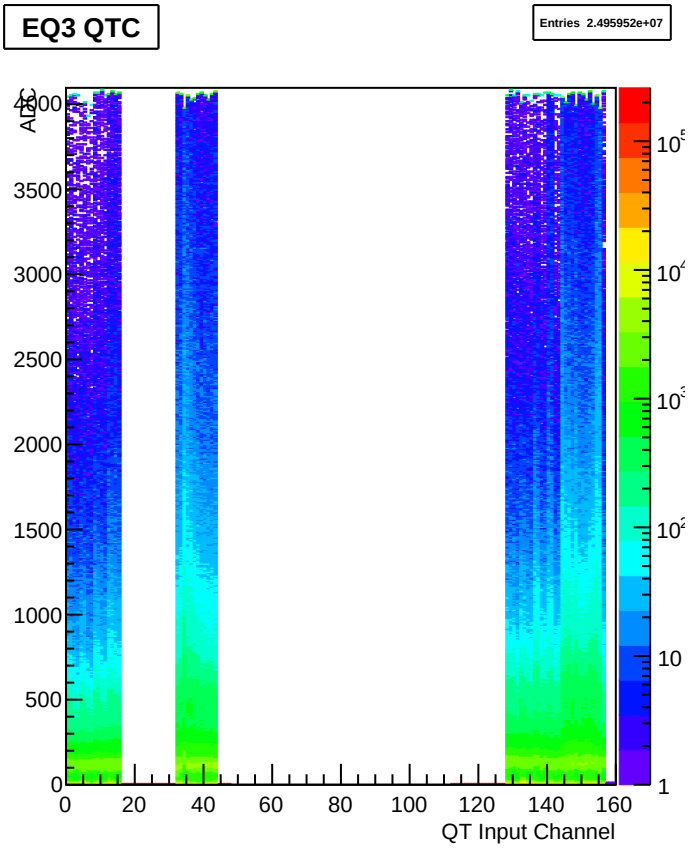

EQ2 QTB
Entries 2.712781e+07
TDC
QT Input Channel

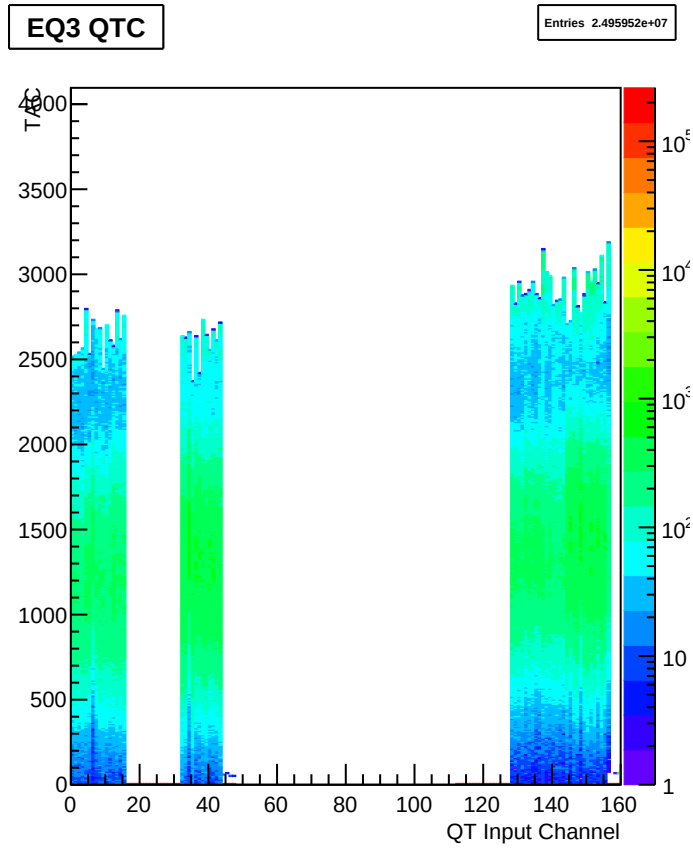

EQ2 QTC
Entries 2.495952e+07
ADC
QT Input Channel

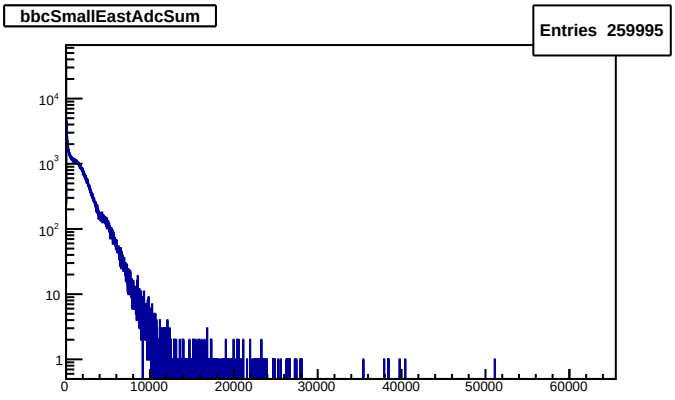

EQ2 QTC
Entries 2.495952e+07
TADC
QT Input Channel

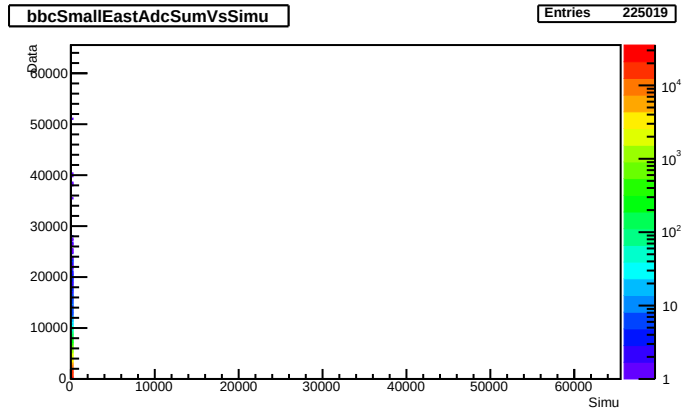

EQ3 QTB
Entries 6.655872e+07
ADC
QT Input Channel

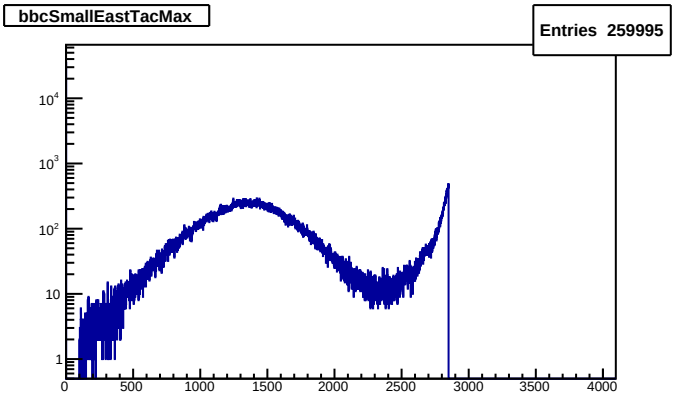

EQ3 QTB
Entries 2.142208e+07
TDC
QT Input Channel

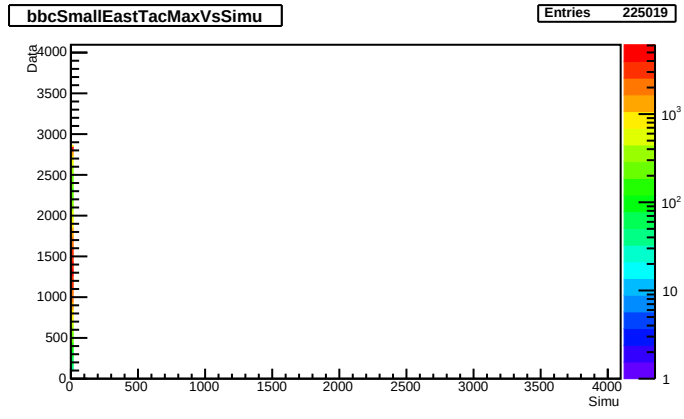

EQ3 QTC
Entries 2.495952e+07
ADC
QT Input Channel


EQ3 QTC
Entries 2.495952e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 259995


bbcSmallEastAdcSumVsSimu
Entries 225019
Data
Simu


bbcSmallEastTacMax
Entries 259995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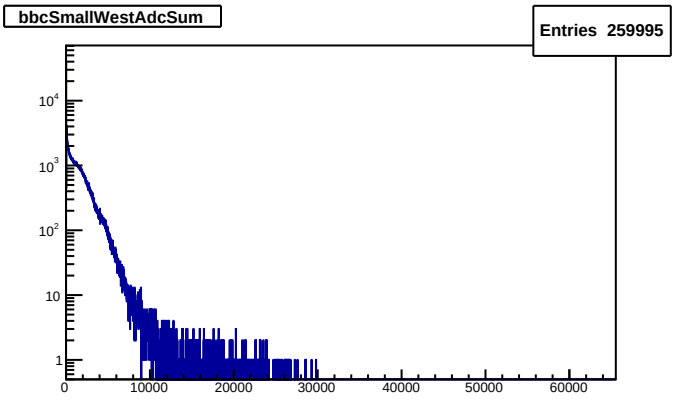
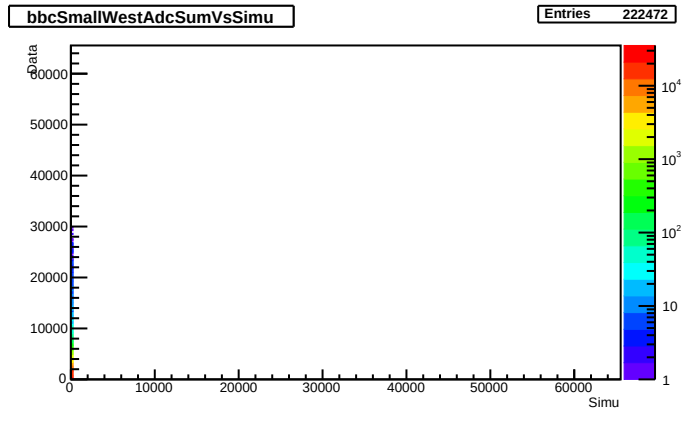
Entries 225019
Data
Simu


bbcSmallWestAdcSum
Entries 259995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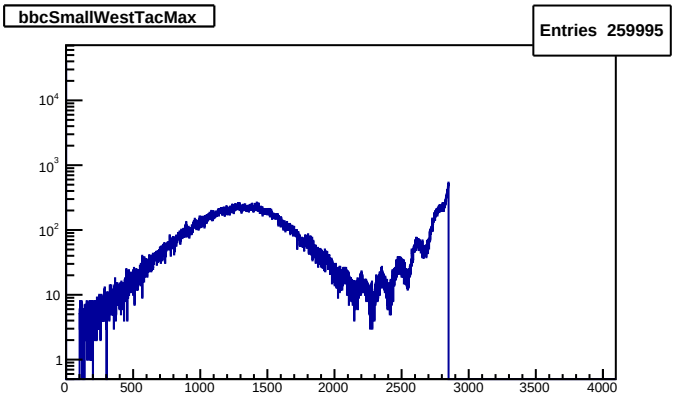
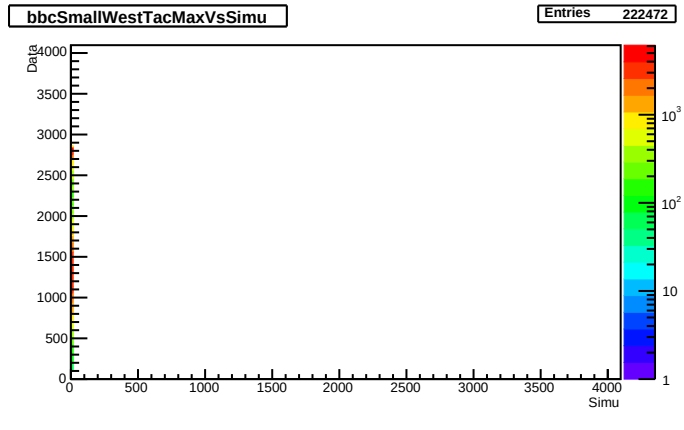
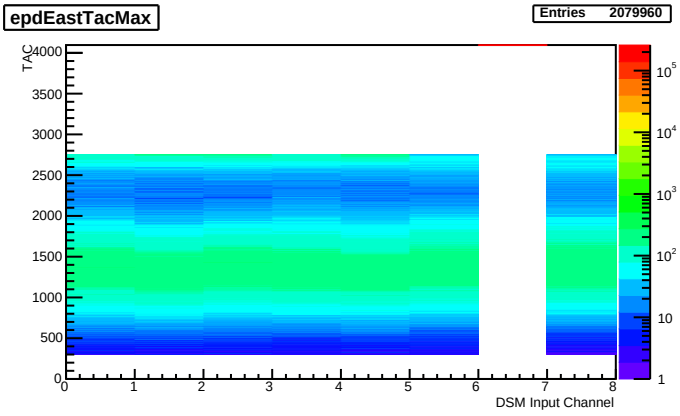
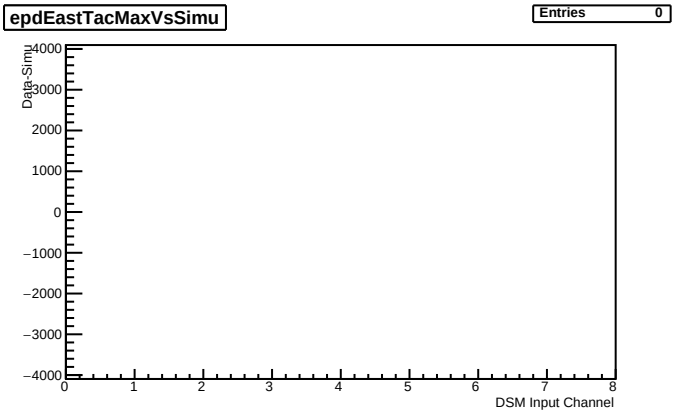
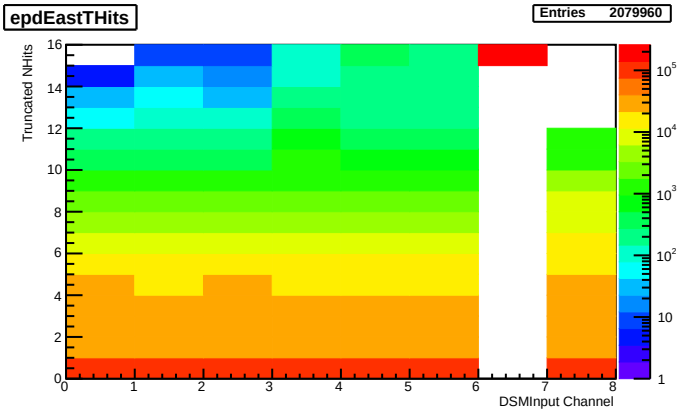
Entries 222472
Data
Simu

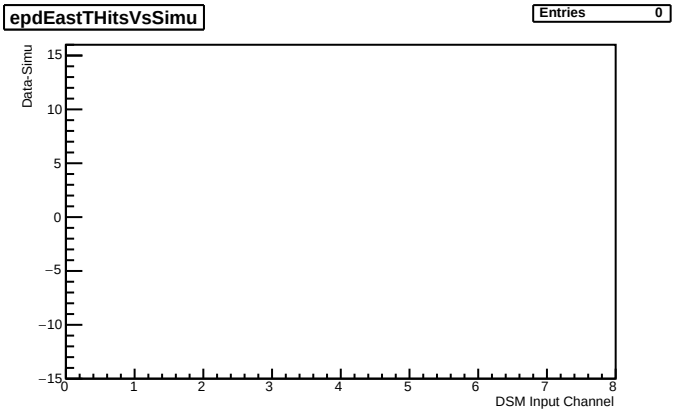

bbcSmallWestTacMax
Entries 259995


bbcSmallWestTacMaxVsSimu
Entries 222472
Data
Simu


epdEastTacMax
Entries 2079960
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 2079960
Truncated NHits
DSMInput Channel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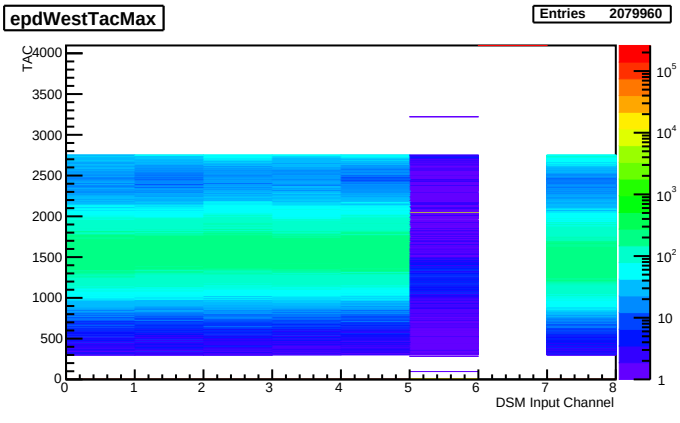
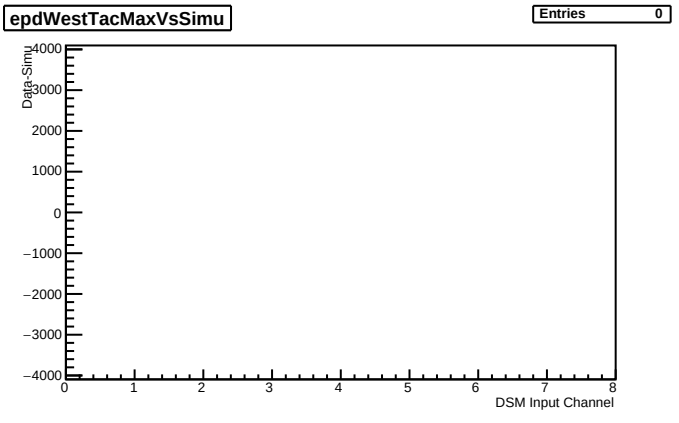
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 2079960
TAC
DSM Input Channel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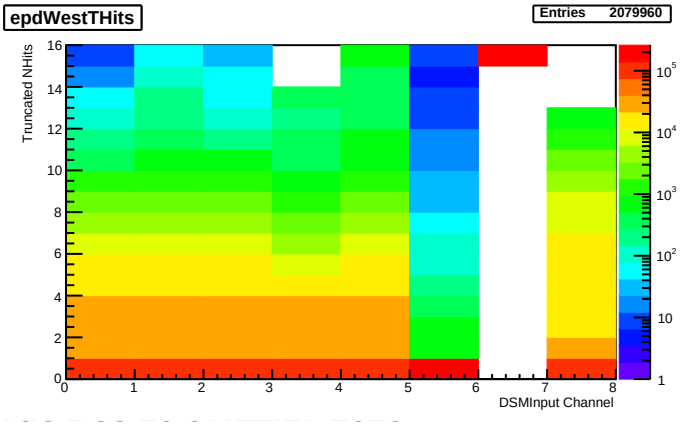
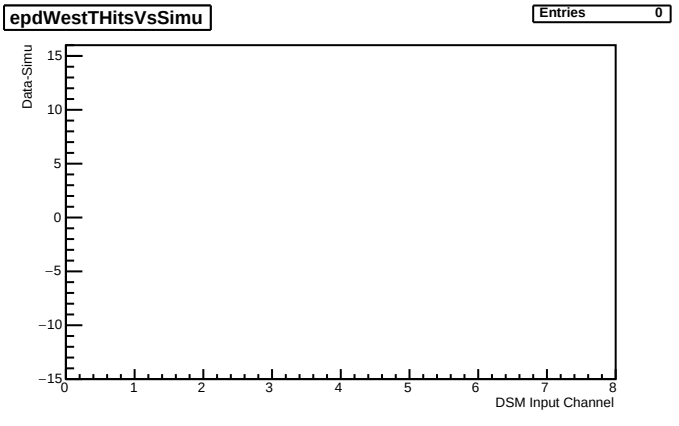
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 2079960
Truncated NHits
DSMInput Channel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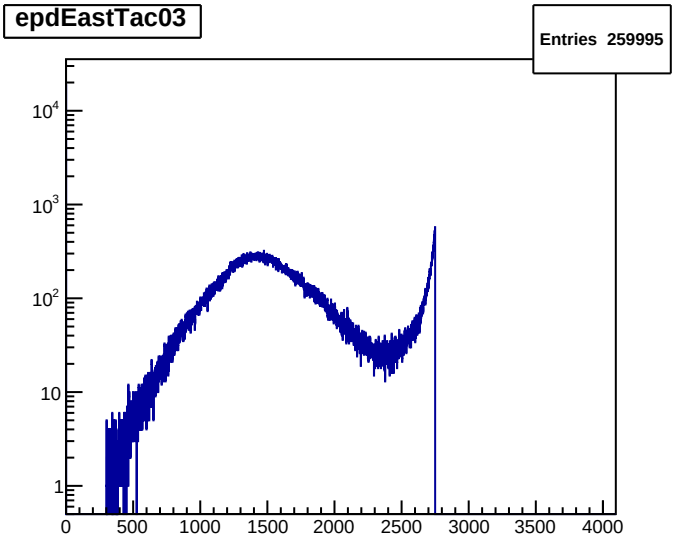
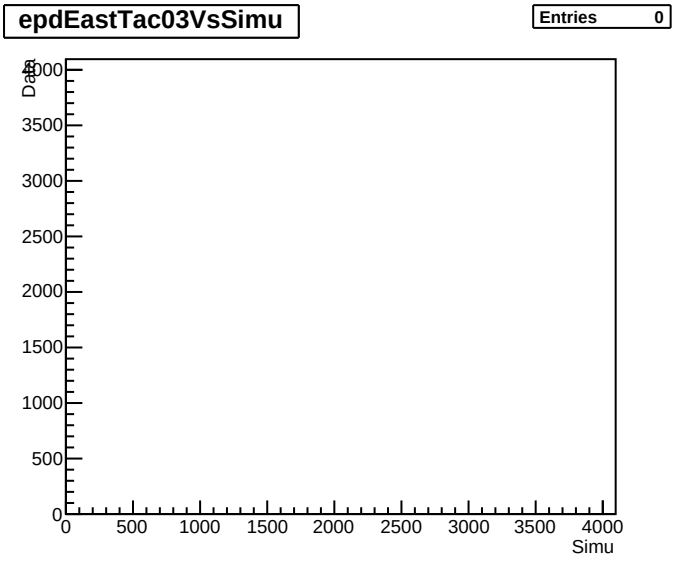
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 259995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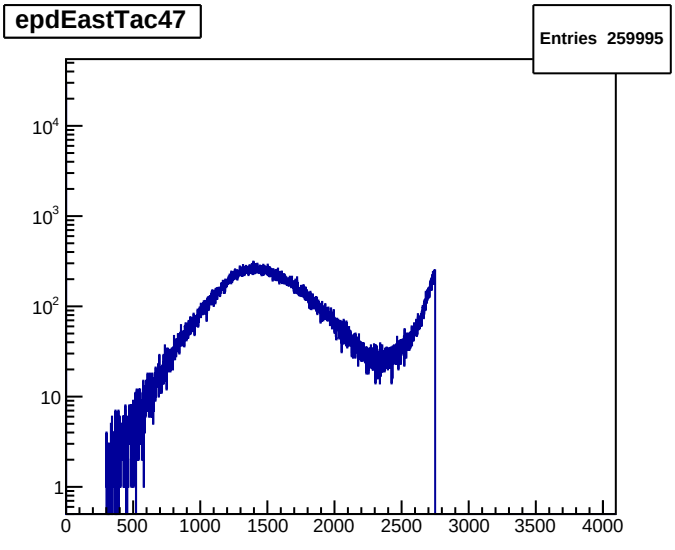
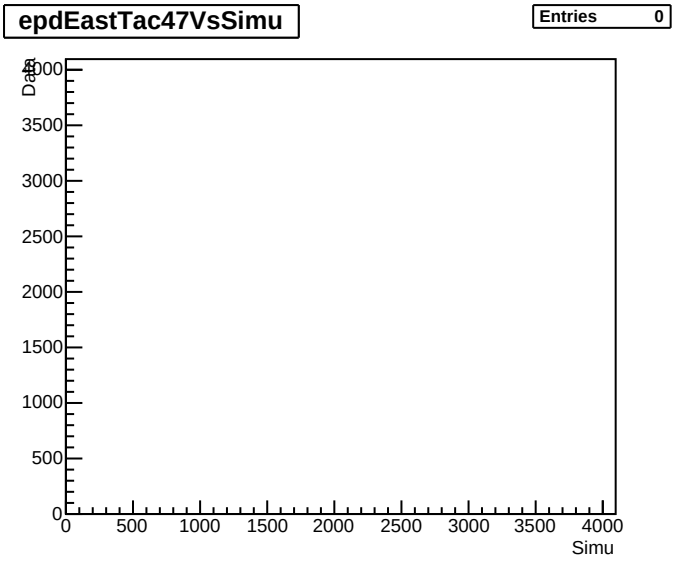
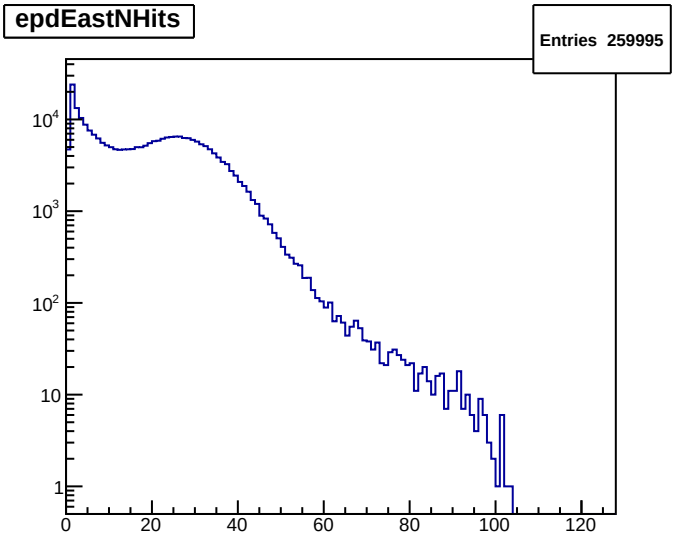
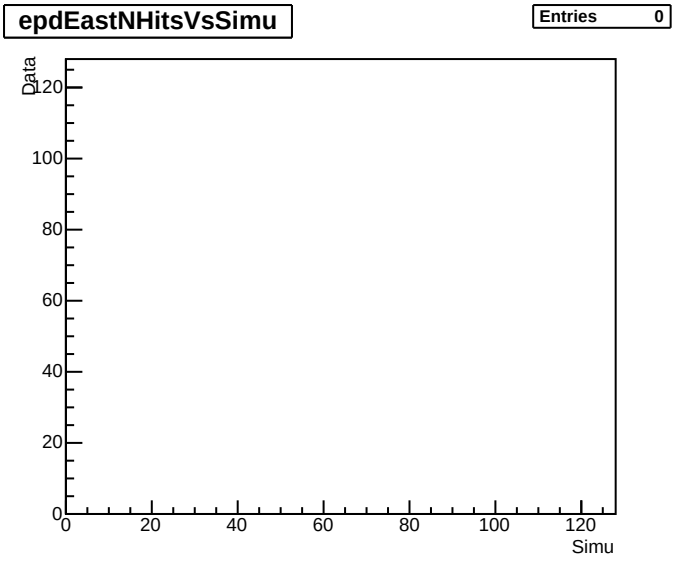
Entries 0
Data
Simu


epdEastTac47
Entries 259995


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 259995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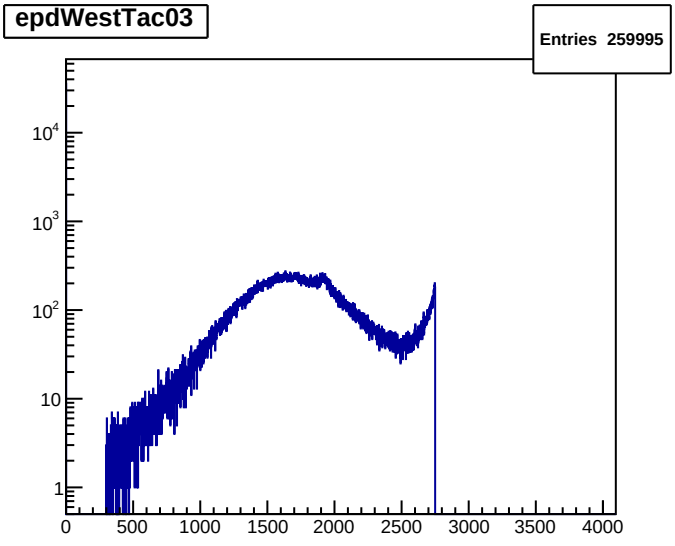
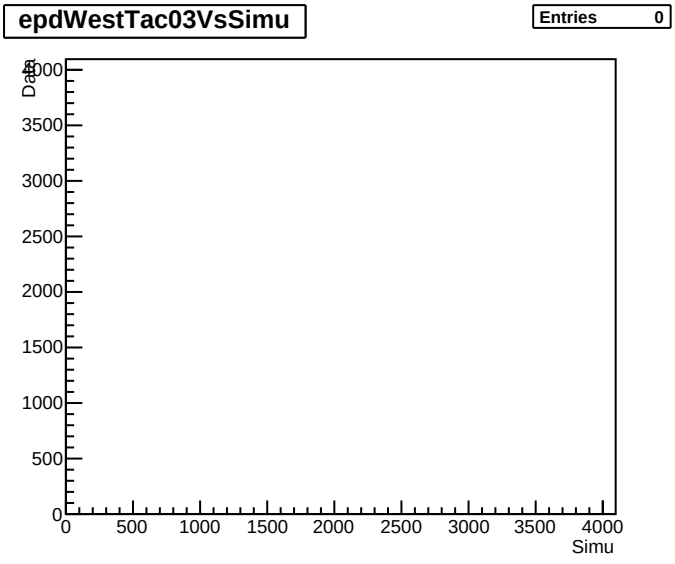
Entries 0
Data
Simu


epdWestTac03
Entries 259995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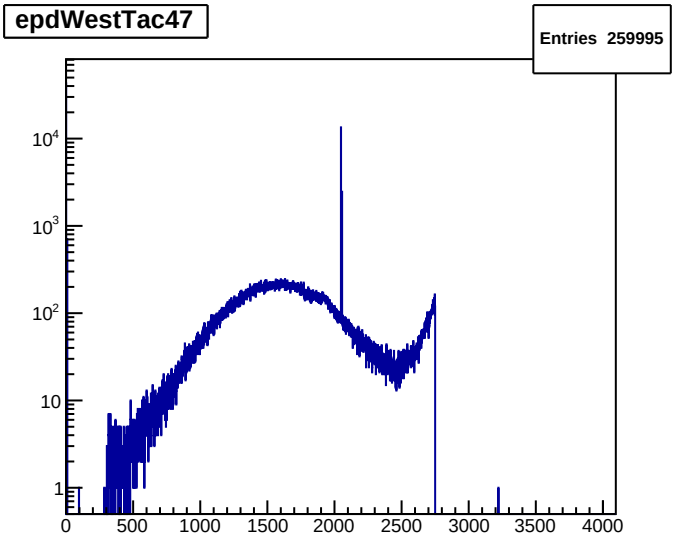
Entries 0
Data
Simu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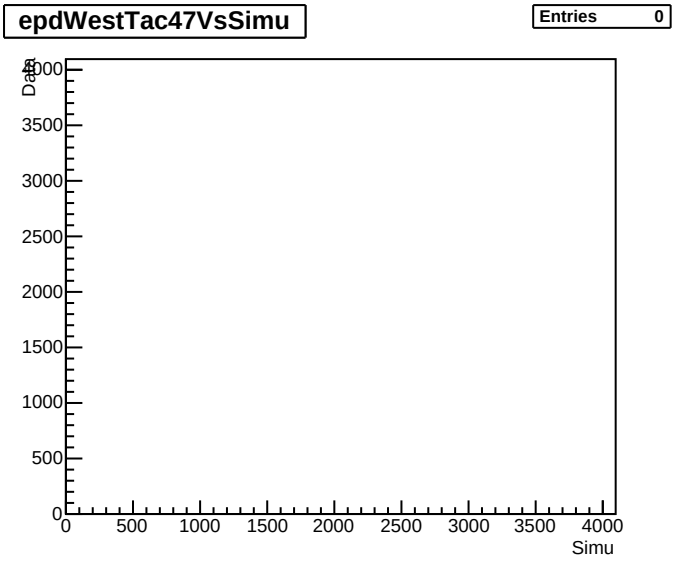
Entries 259995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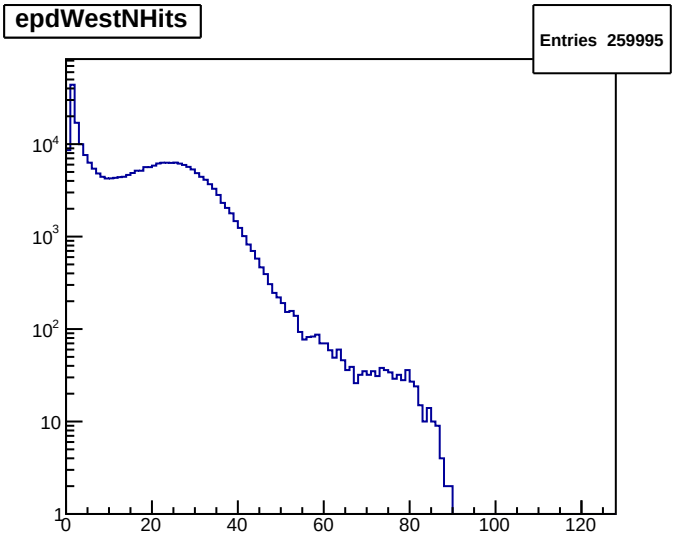
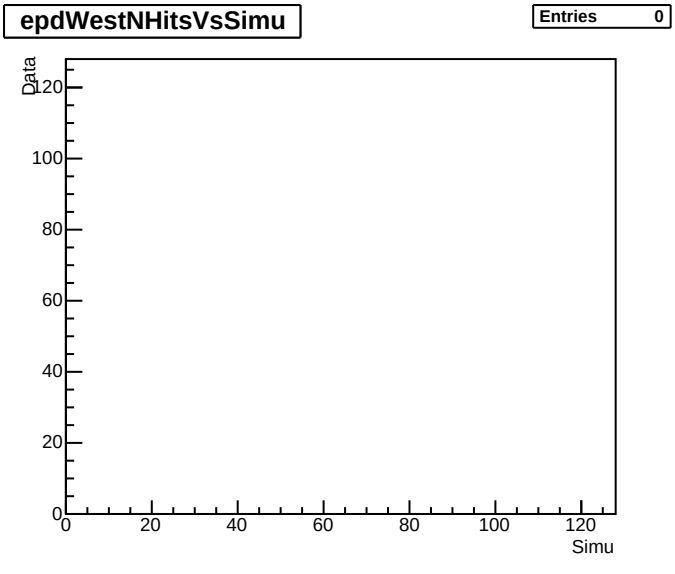
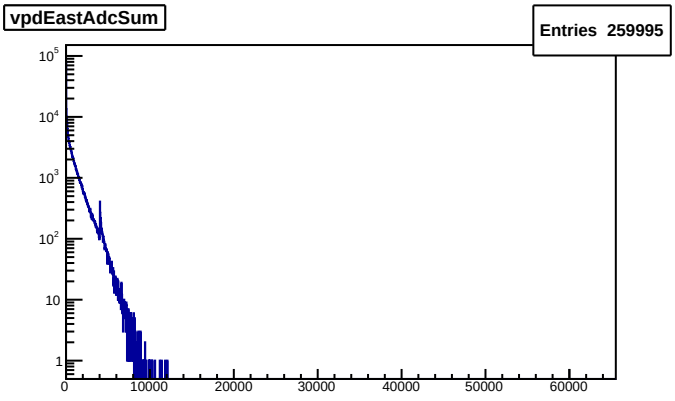
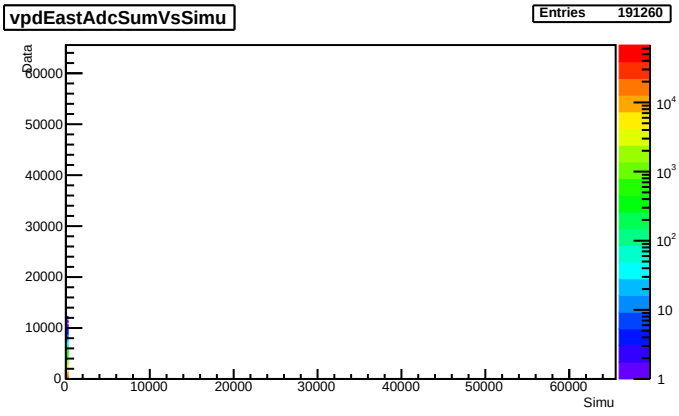
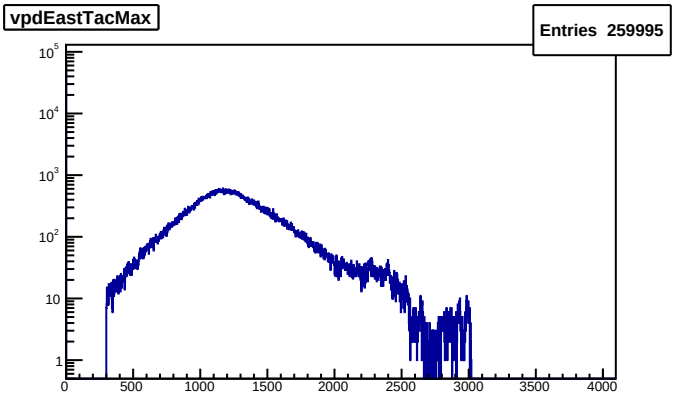
Entries 0
Data
Simu

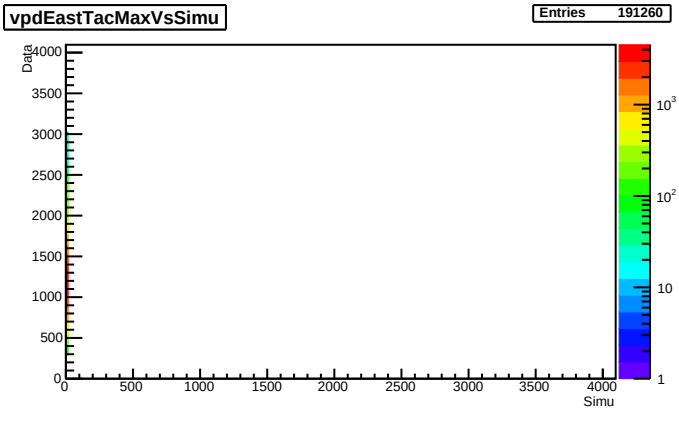

epdWestNHits
Entries 259995


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 259995


vpdEastAdcSumVsSimu
Entries 191260
Data
Simu


vpdEastTacMax
Entries 259995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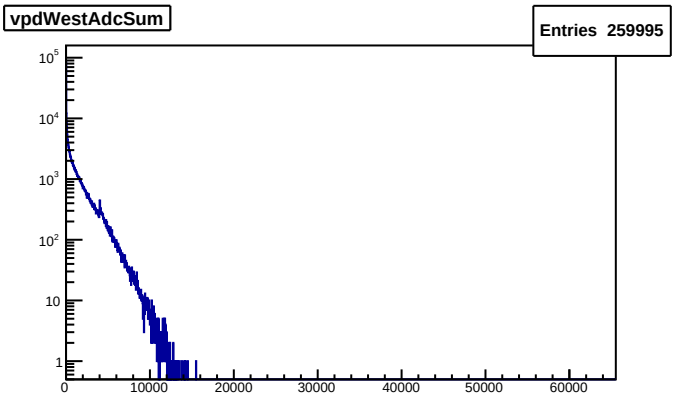
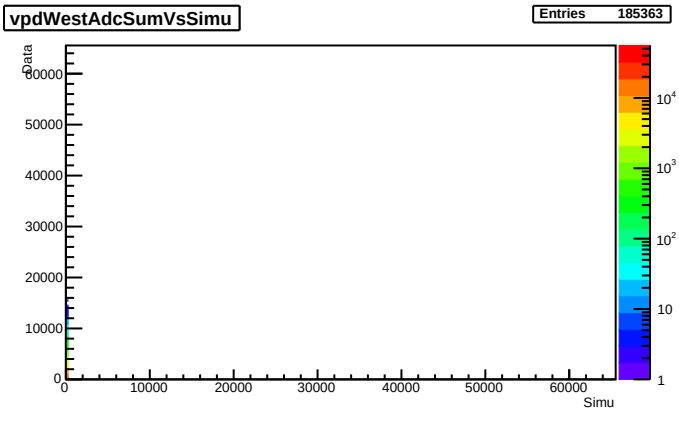
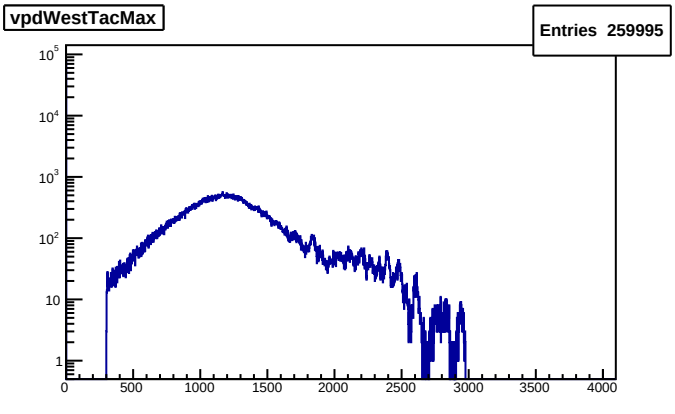
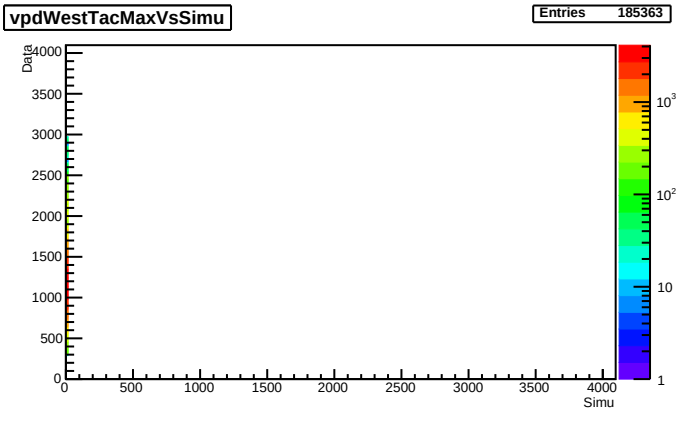
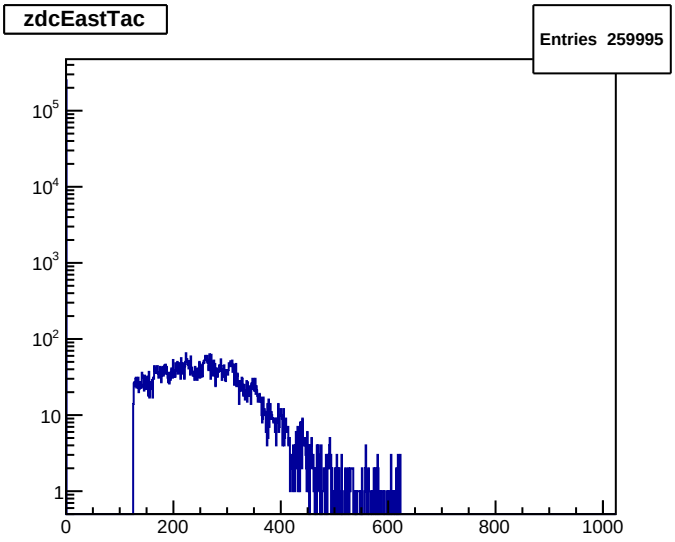
Entries 191260
Data
Simu

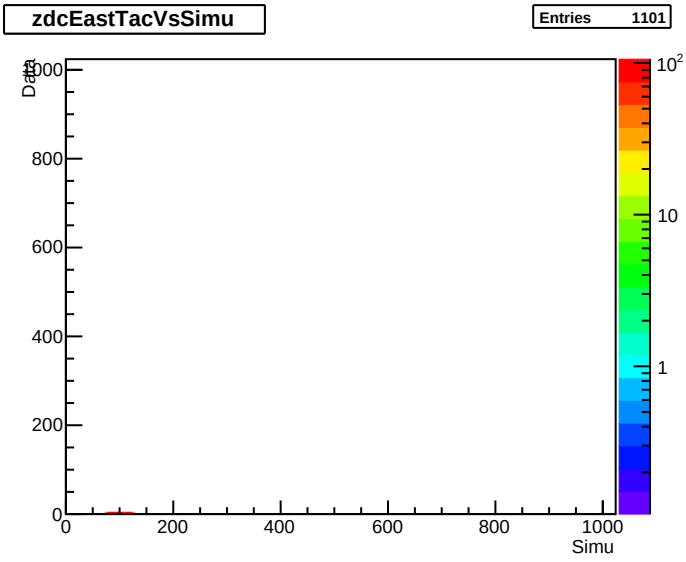

vpdWestAdcSum
Entries 259995

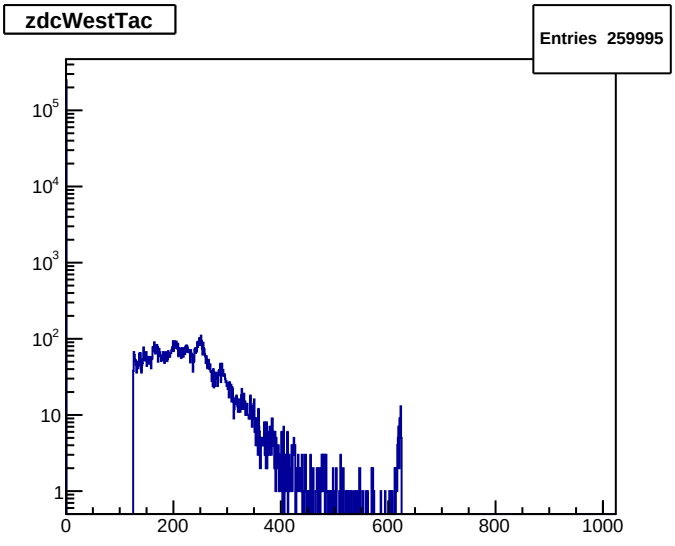

vpdWestAdcSumVsSimu
Entries 185363
Data
Simu

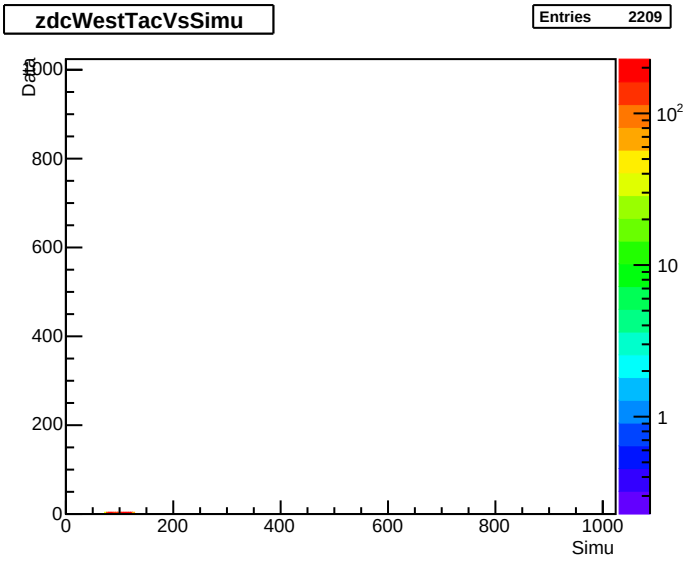

vpdWestTacMax
Entries 259995

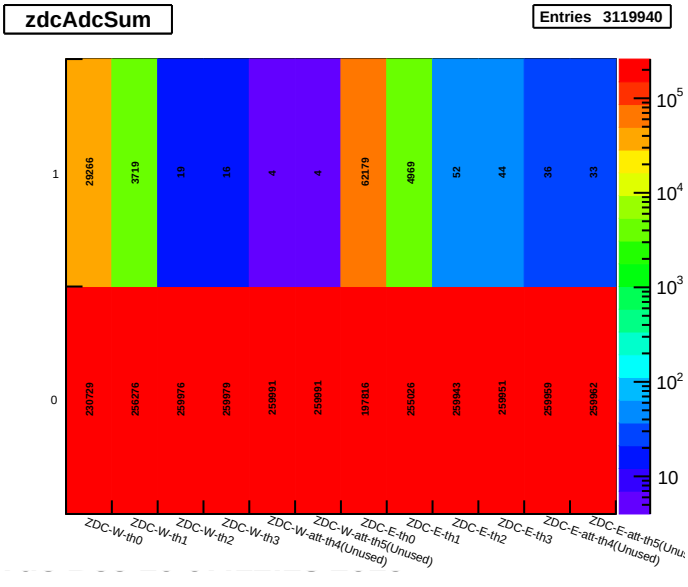

vpdWestTacMaxVsSimu
Entries 185363
Data
Simu

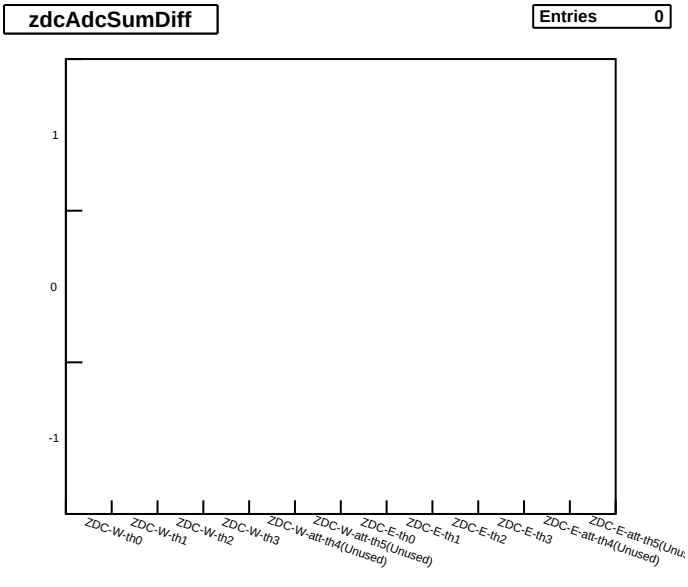

zdcEastTac
Entries 259995

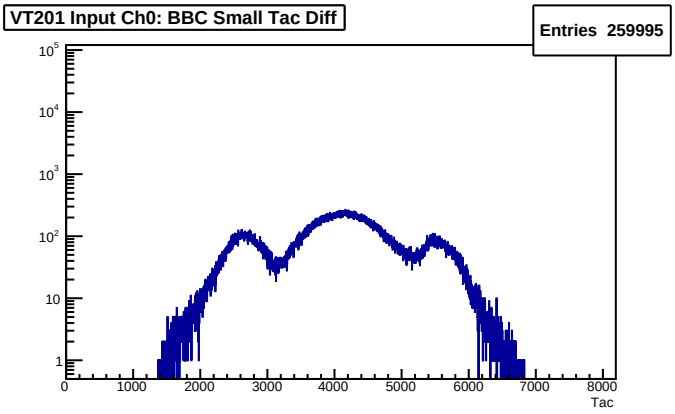

zdcEastTacVsSimu
Entries 1101
Data
Simu

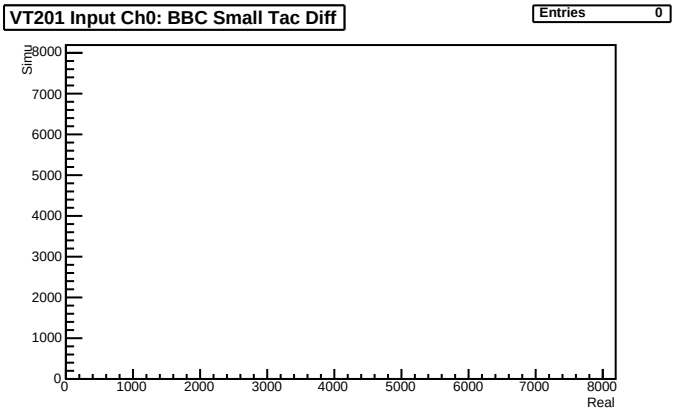

zdcWestTac
Entries 259995

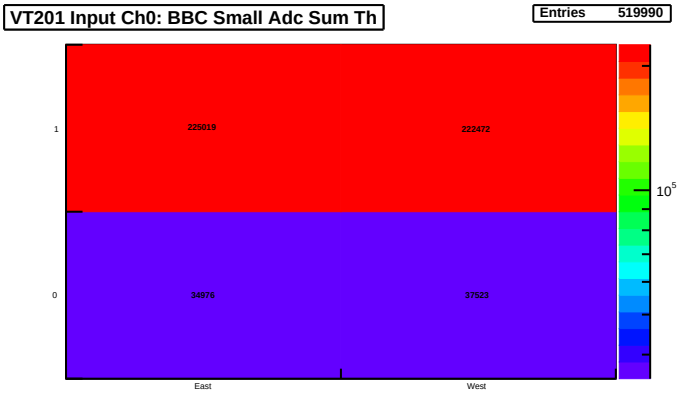

zdcWestTacVsSimu
Entries 2209
Data
Simu

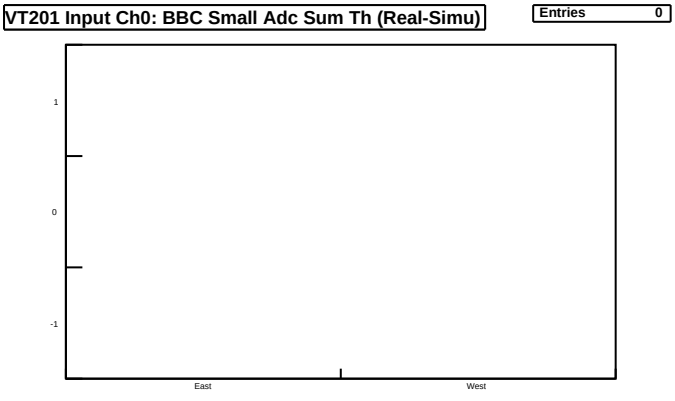

zdcAdcSum
Entries 3119940
29266
3719
19
16
4
4
62179
4969
52
44
36
33
230729
256276
259976
259970
259991
259991
197816
255026
259943
259951
259959
259962
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

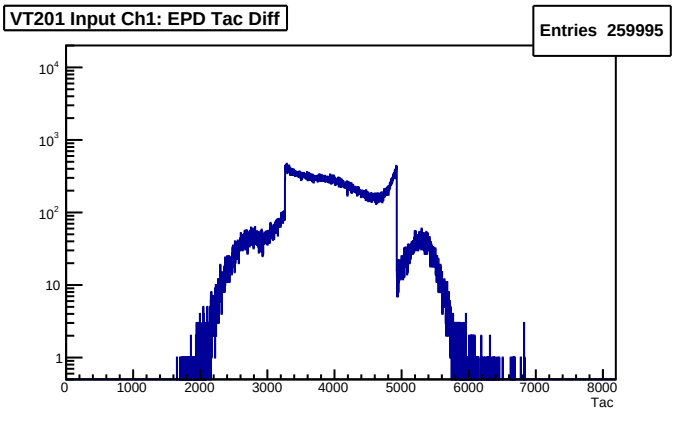

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

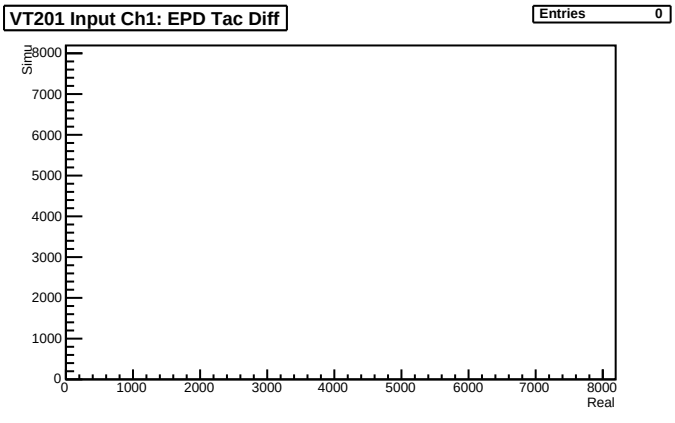

VT201 Input Ch0: BBC Small Tac Diff
Entries 259995
Tac

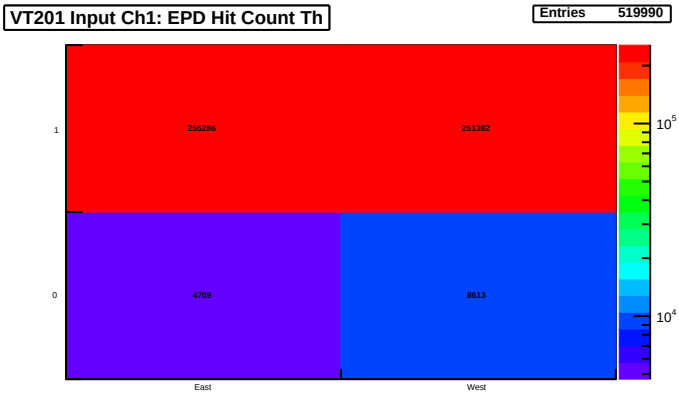

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

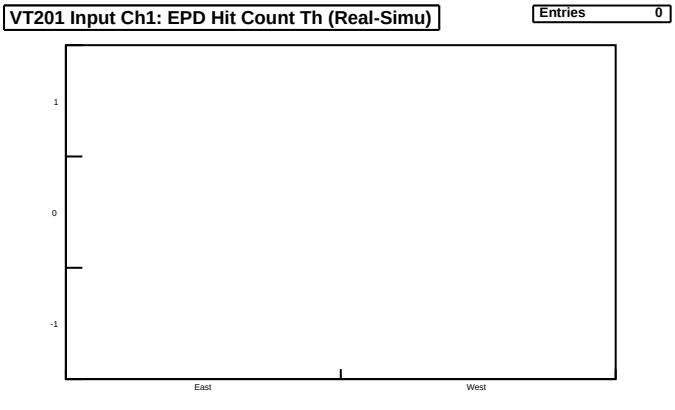

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 519990
225019
222472
34976
37523
East
West

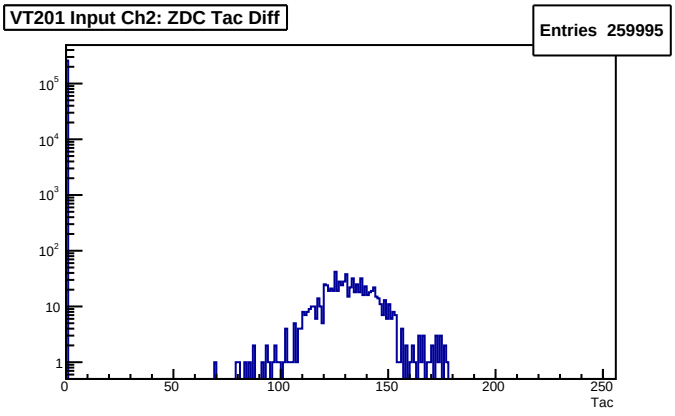

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

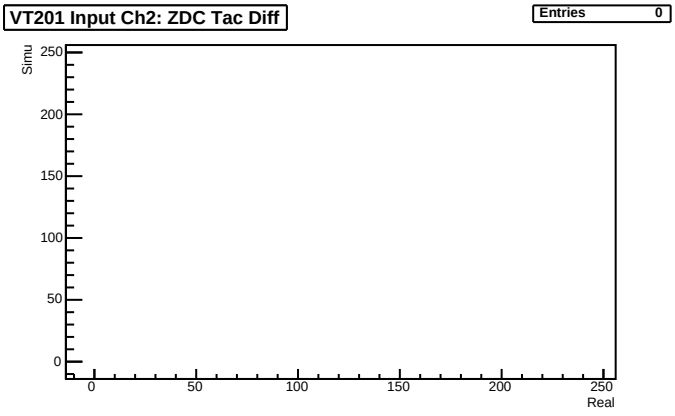

VT201 Input Ch1: EPD Tac Diff
Entries 259995
Tac

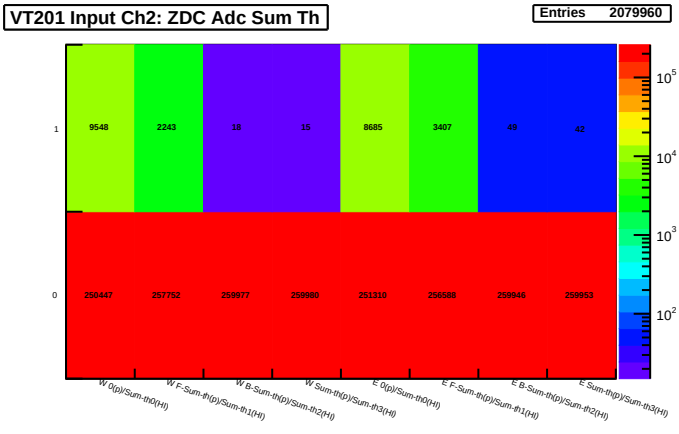

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

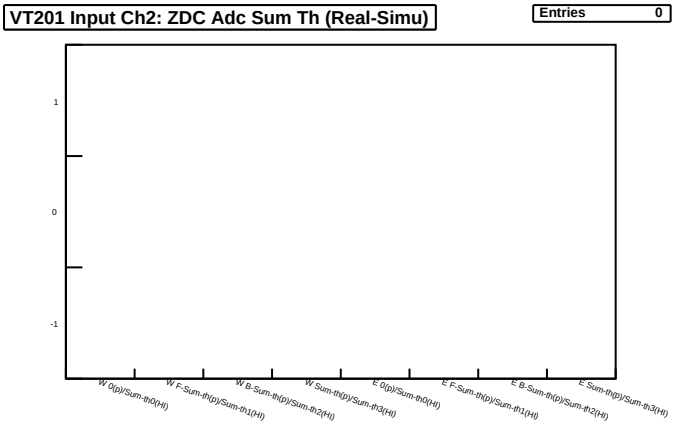

VT201 Input Ch1: EPD Hit Count Th
Entries 519990
255286
251382
4709
8613
East
West

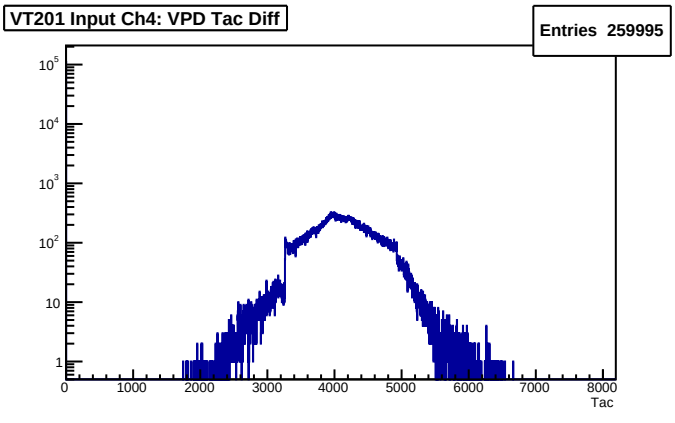

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

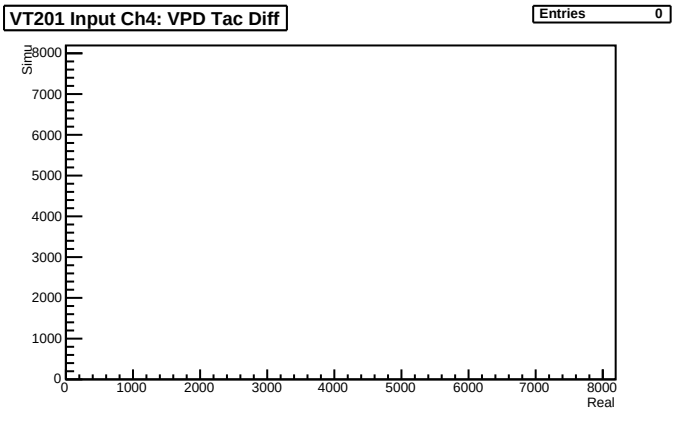

VT201 Input Ch2: ZDC Tac Diff
Entries 259995
Tac

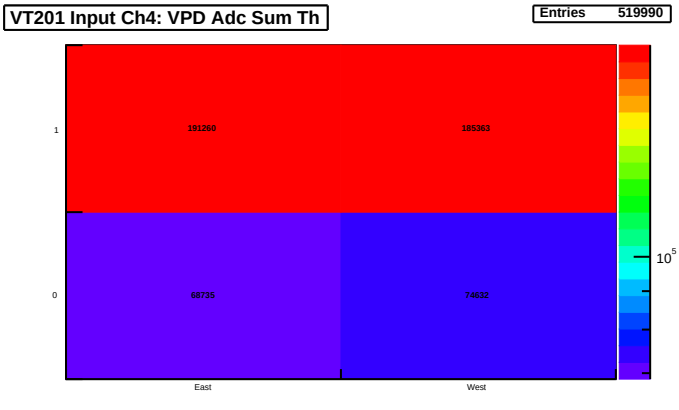

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

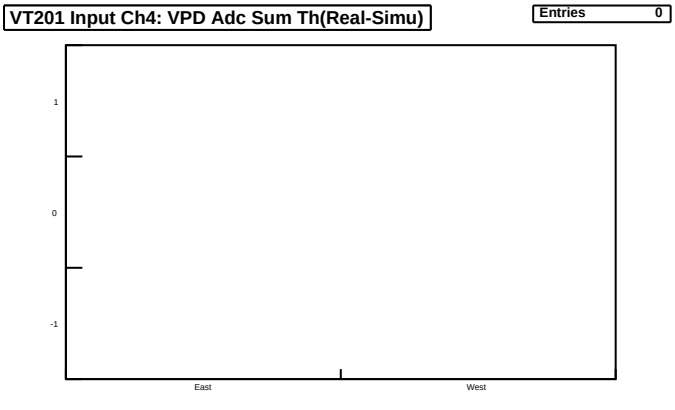

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2079960
9548
2243
18
15
8685
3407
49
42
250447
257752
259977
259980
251310
256588
259946
259953
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

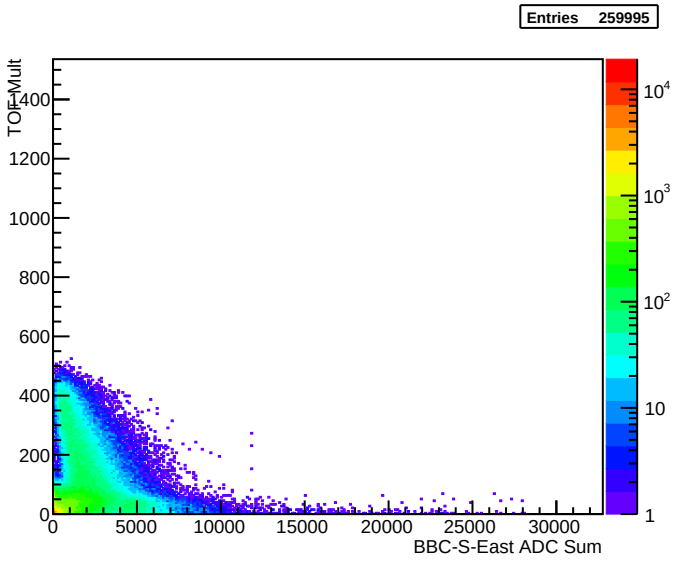

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

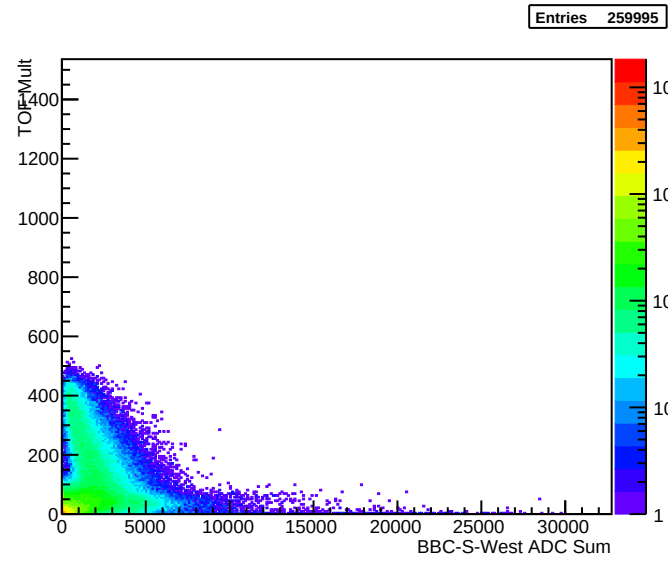

VT201 Input Ch4: VPD Tac Diff
Entries 259995
Tac

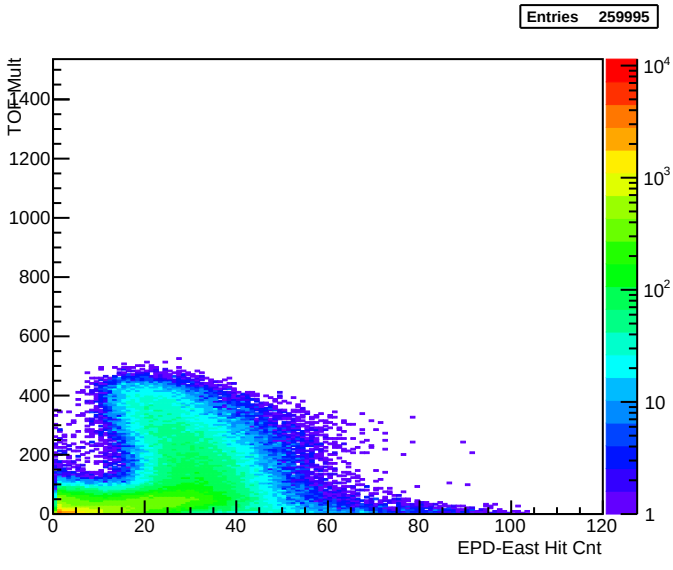

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

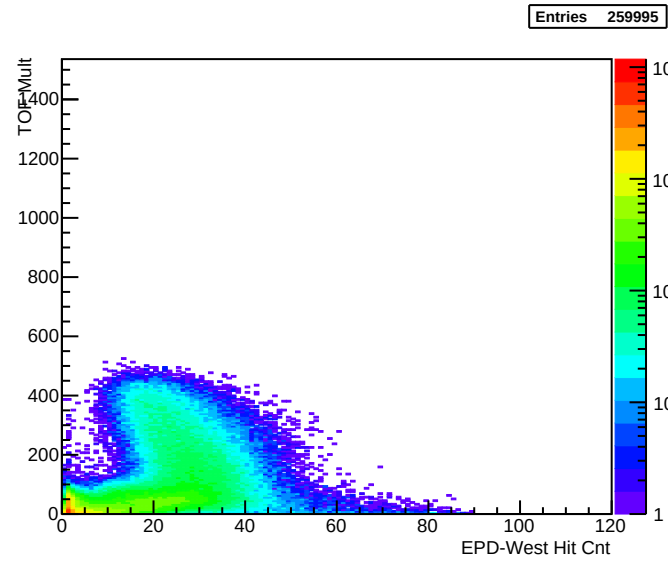

VT201 Input Ch4: VPD Adc Sum Th
Entries 519990
191260
185363
68735
74632
East
West

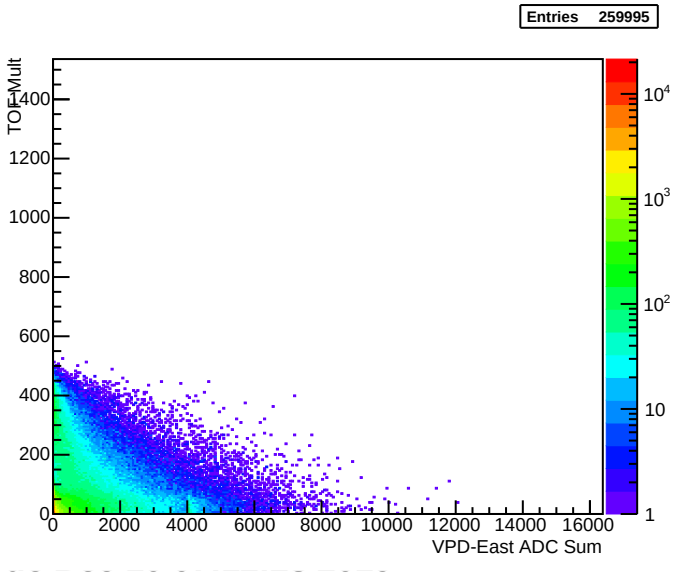

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

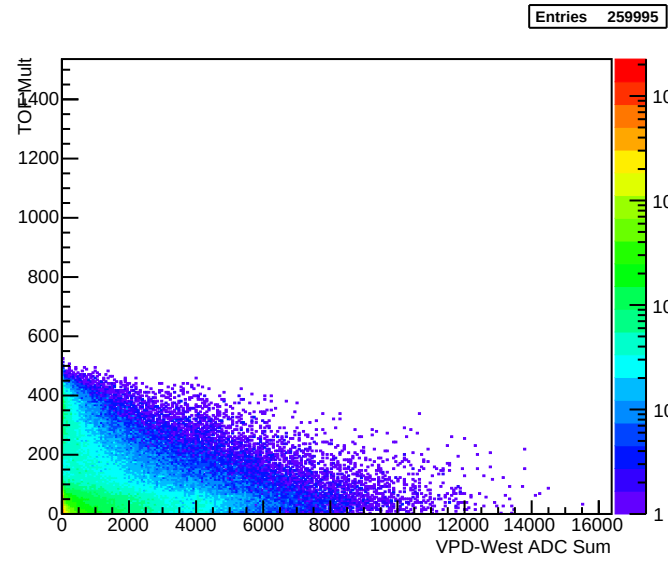

Entries 259995
TOF-Mult
BBC-S-East ADC Sum

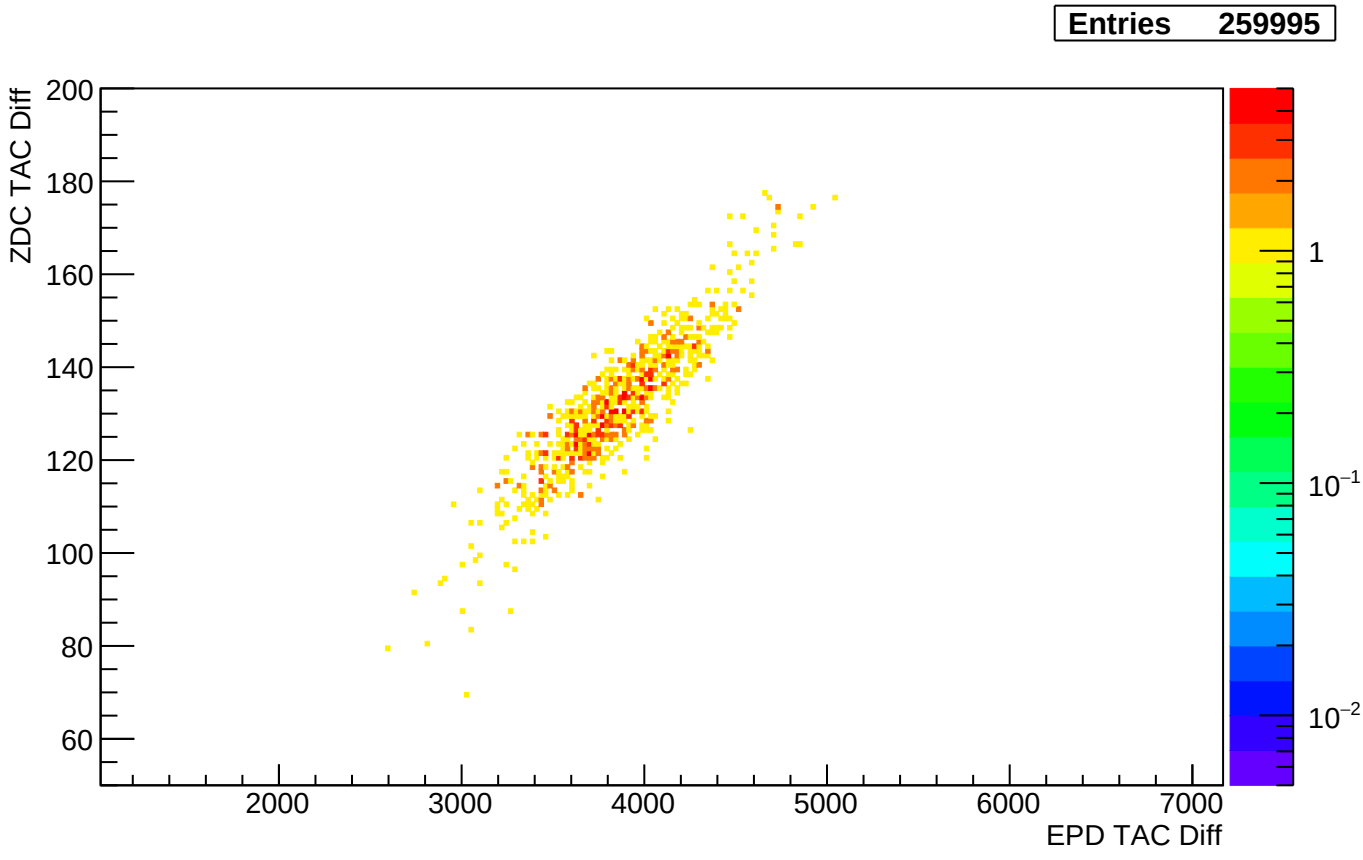

Entries 259995
TOF-Mult
BBC-S-West ADC Sum

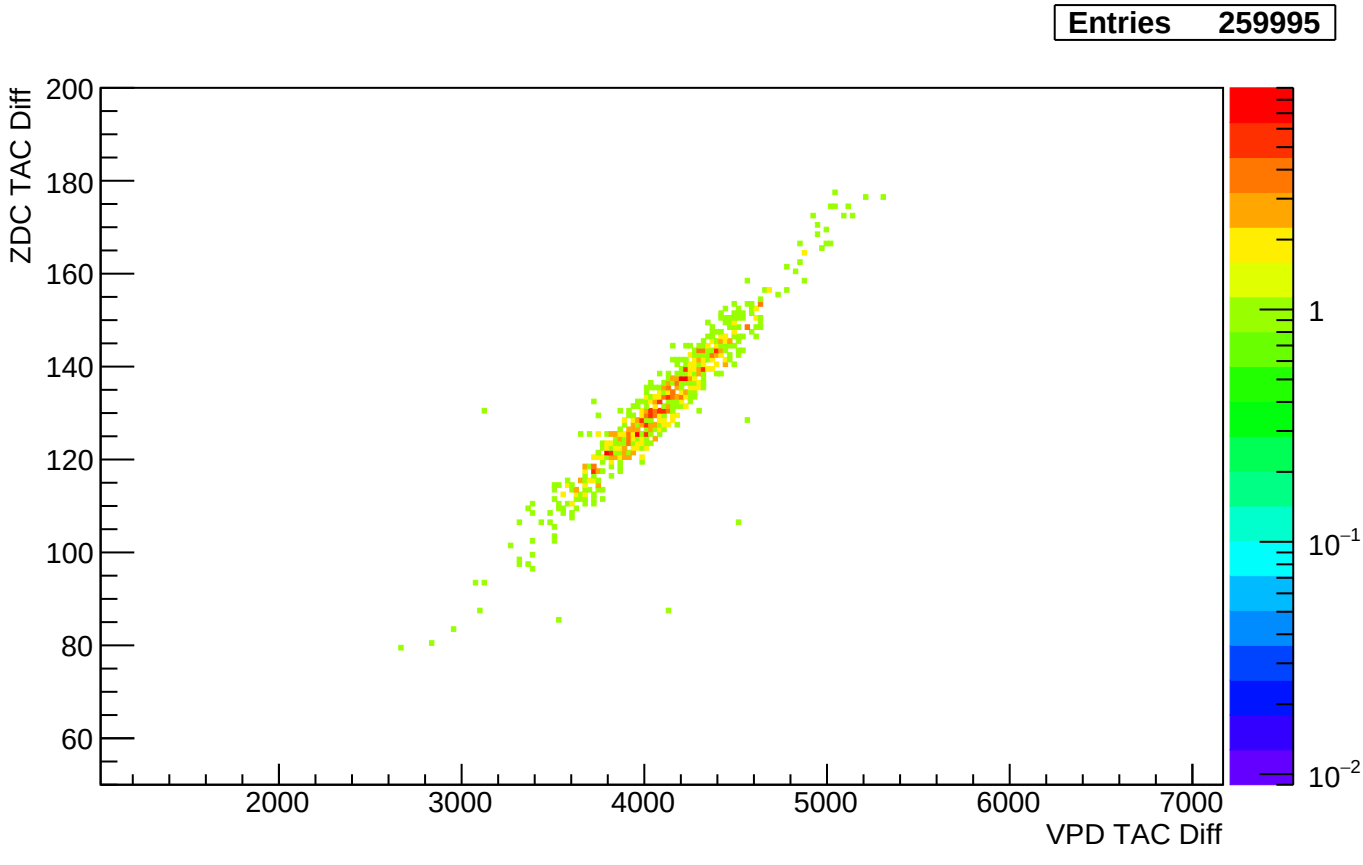

Entries 259995
TOF-Mult
EPD-East Hit Cnt

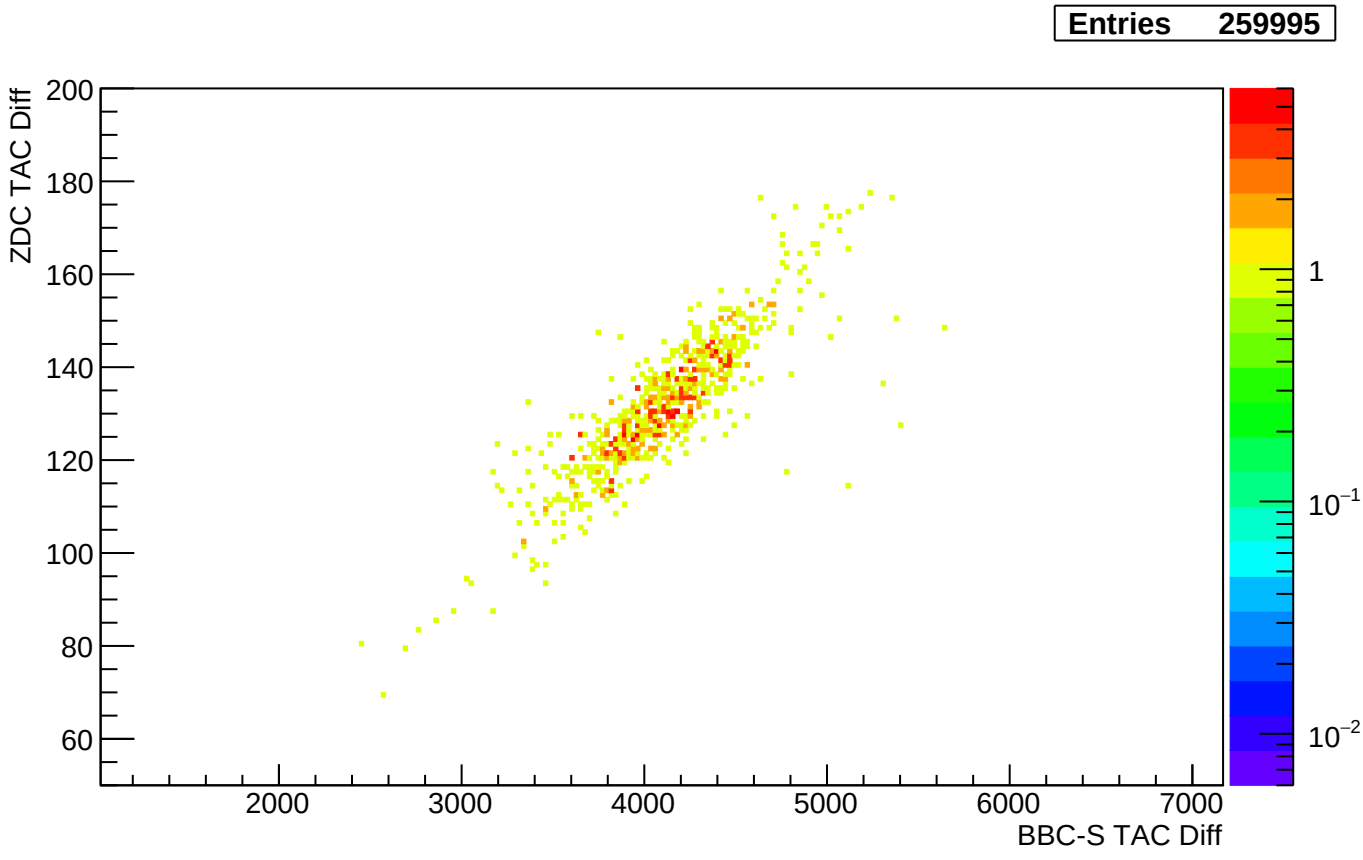

Entries 259995
TOF-Mult
EPD-West Hit Cnt

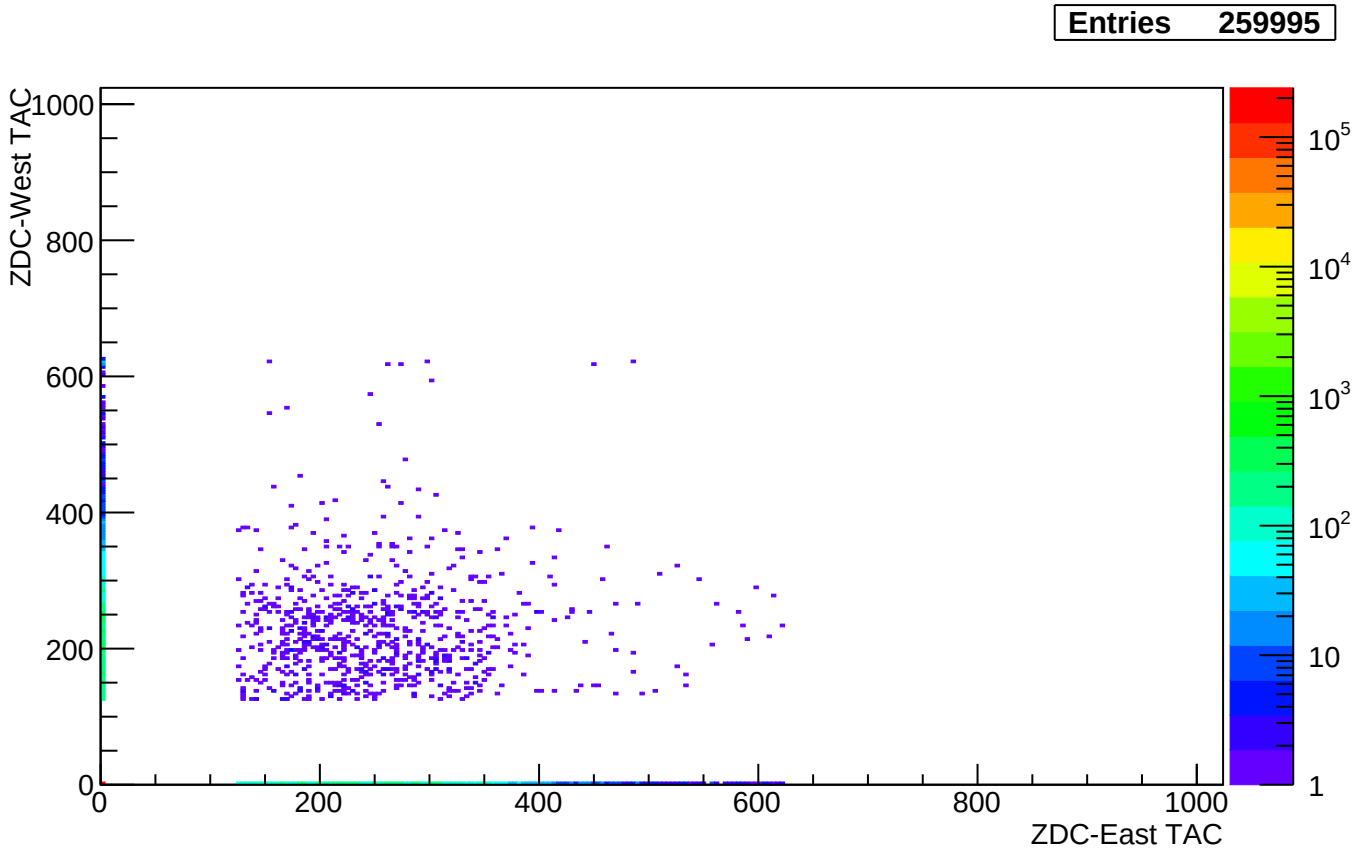

Entries 259995
TOF-Mult
VPD-East ADC Sum

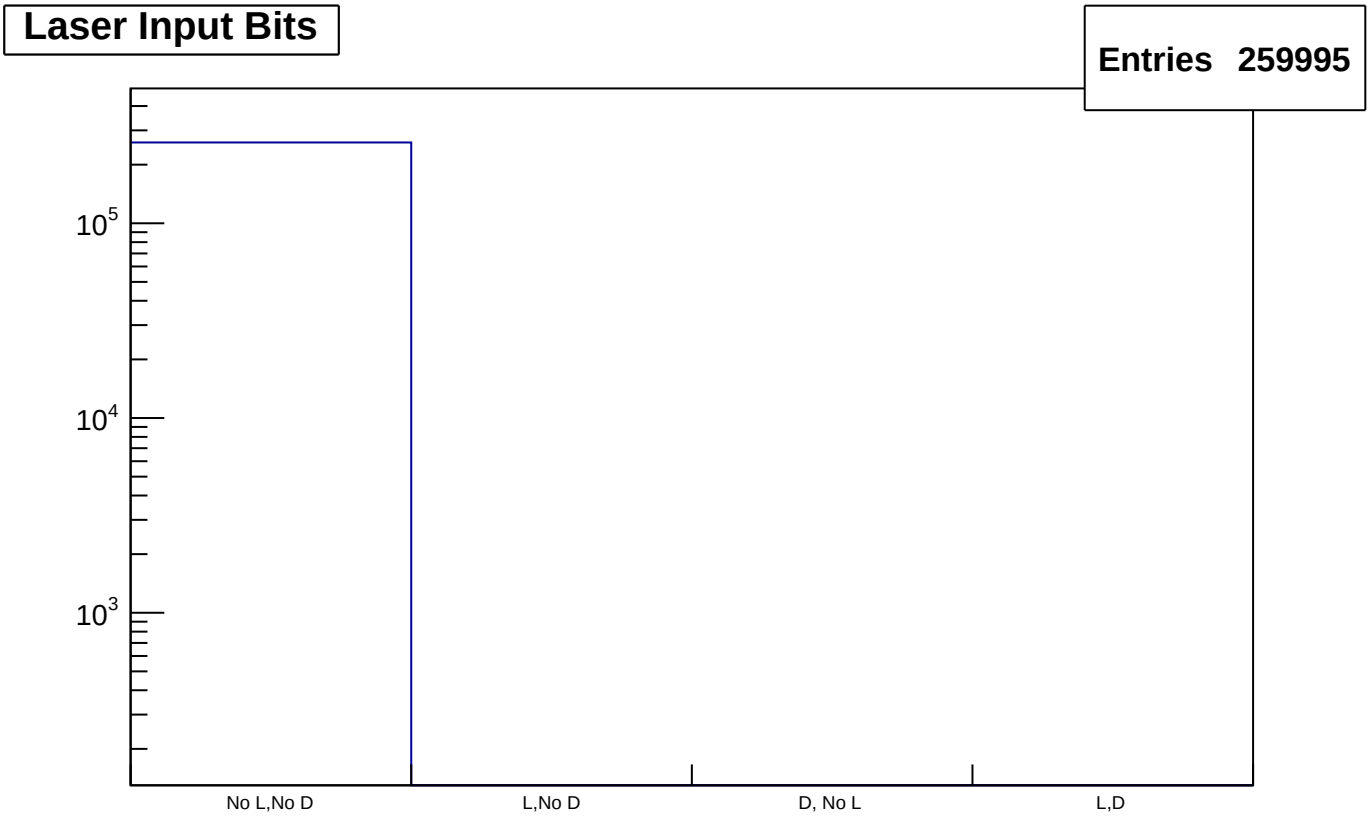

Entries 259995
TOF-Mult
VPD-West ADC Sum

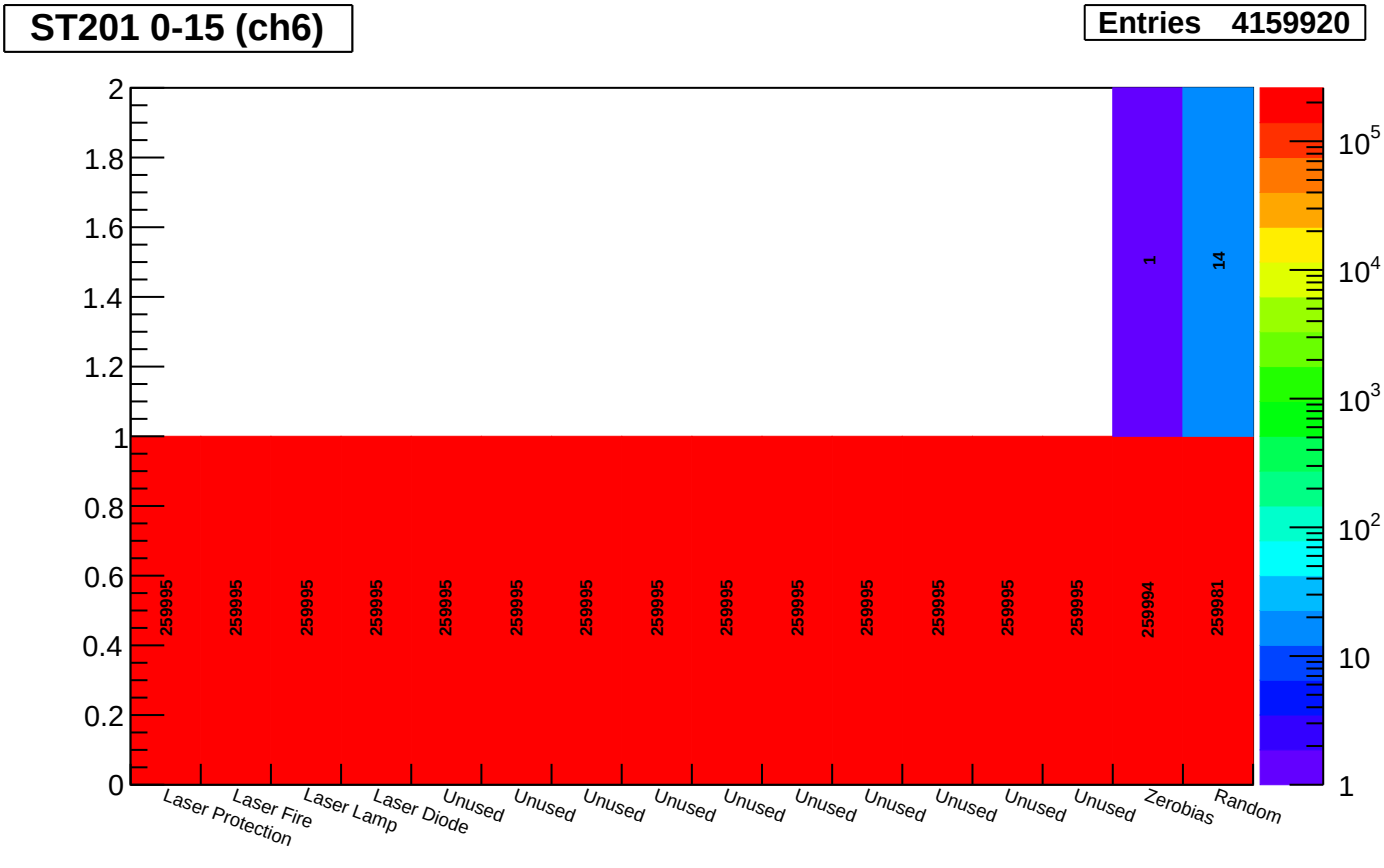

Entries 259995
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

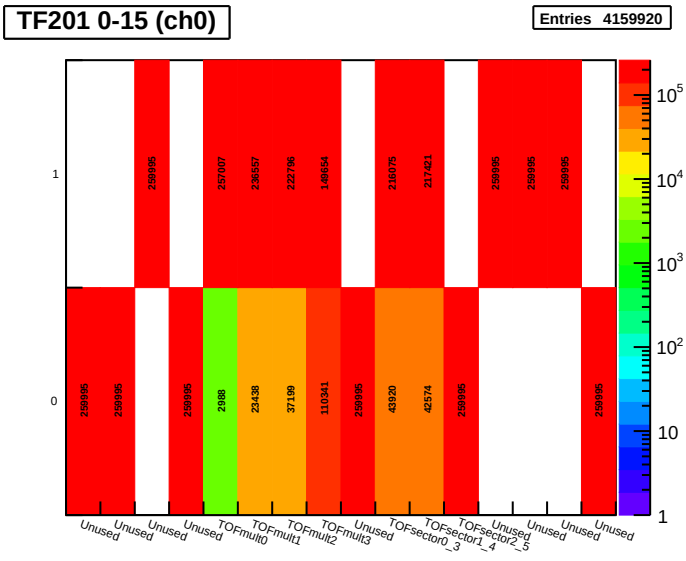

Entries 259995
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

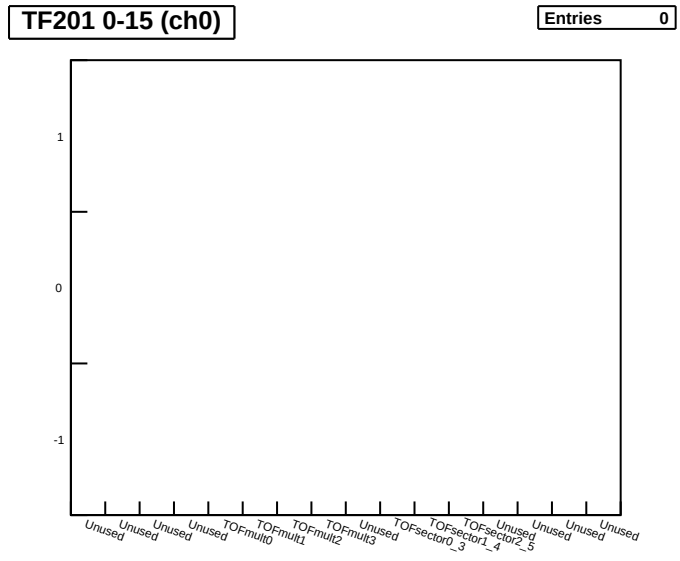

Entries 259995
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

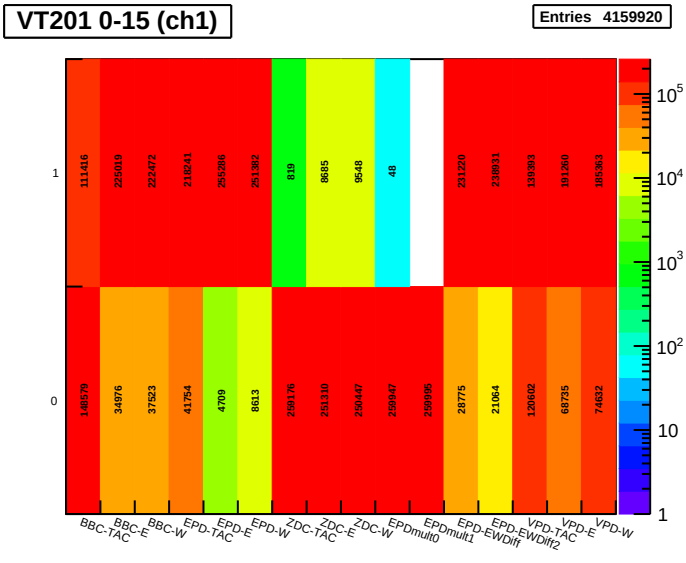

Entries 259995
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

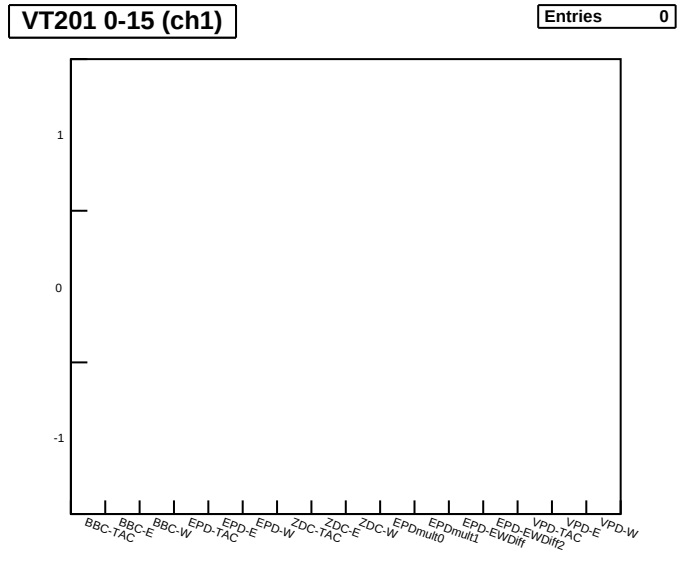

Laser Input Bits
Entries 259995
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

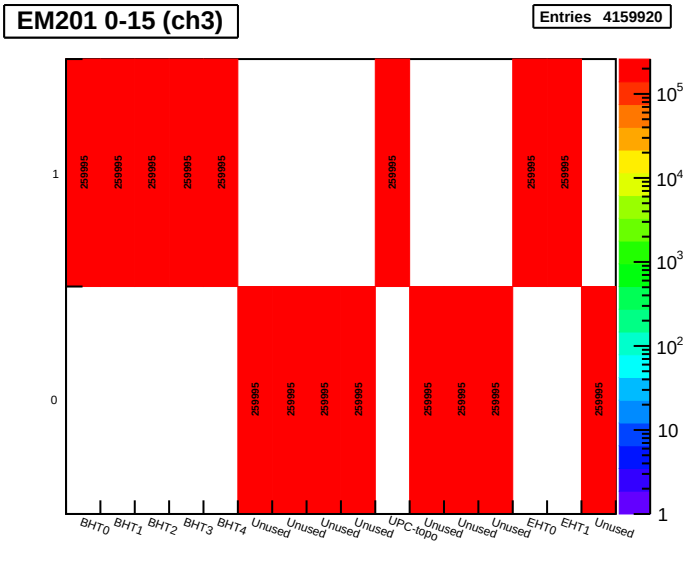

ST201 0-15 (ch6)
Entries 4159920
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
259995
259995
259995
259995
259995
259995
259995
259995
259995
259995
259995
259995
259995
259995
259994
259981
1
14
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

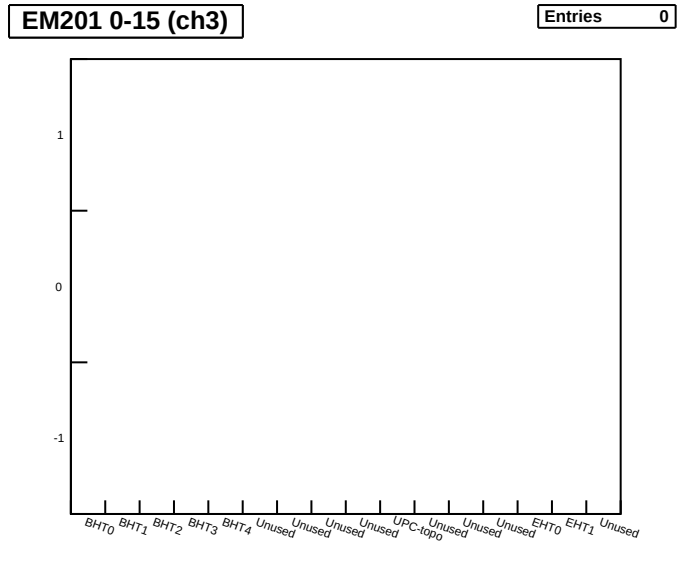

TF201 0-15 (ch0)
Entries 4159920
259995 259995 259995 259995 257007 236557 222796 149654 216075 217421 259995 259995 259995
259995 259995 259995 2988 23438 37199 110341 259995 43920 42574 259995 259995
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused


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


VT201 0-15 (ch1)
Entries 4159920
111416 225019 222472 218241 255286 251382 819 8685 9548 48 231220 238931 133933 191260 185383
148579 34976 37523 41754 4709 8613 259176 253310 250447 259947 259995 28775 21064 120602 68735 74632
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


VT201 0-15 (ch1)
Entries 0
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 4159920
259995 259995 259995 259995 259995 259995 259995 259995 259995
259995 259995 259995 259995 259995 259995 259995 259995
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused


EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused