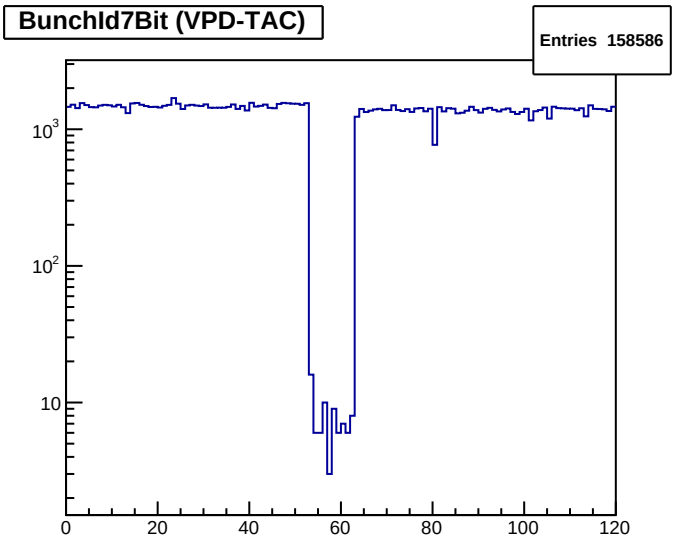
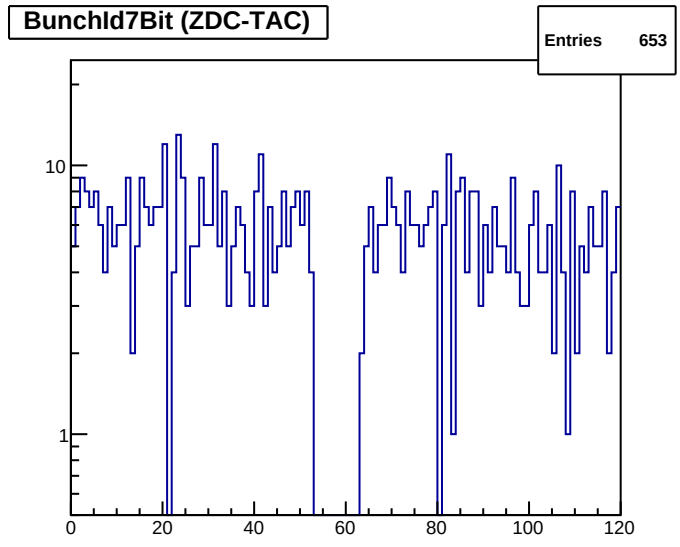
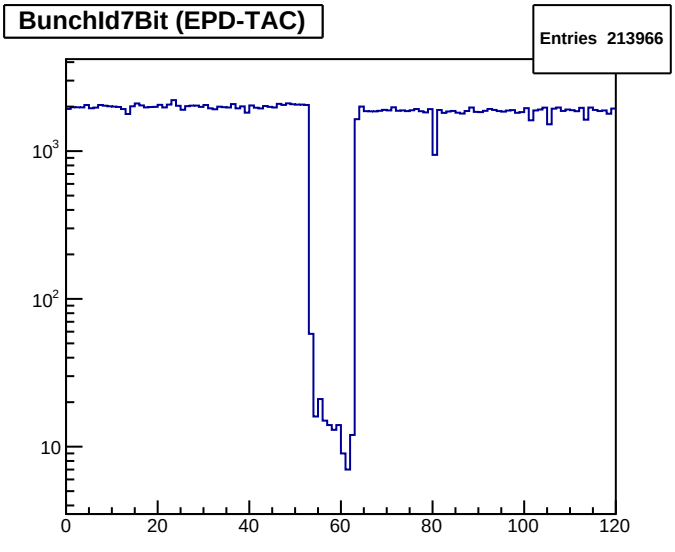
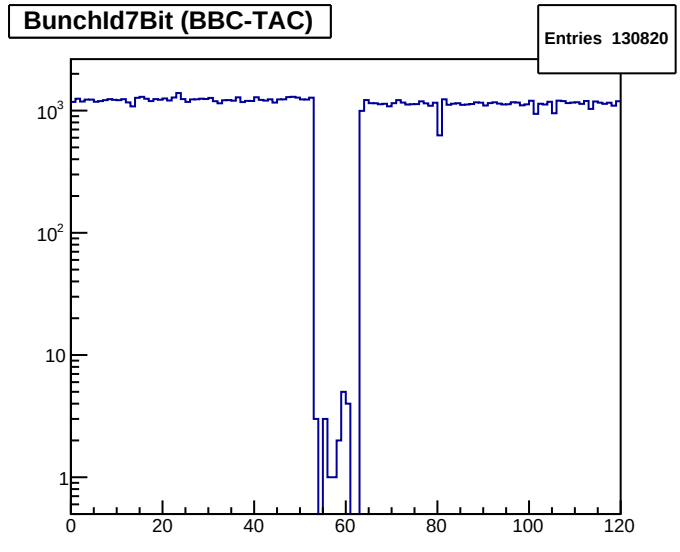
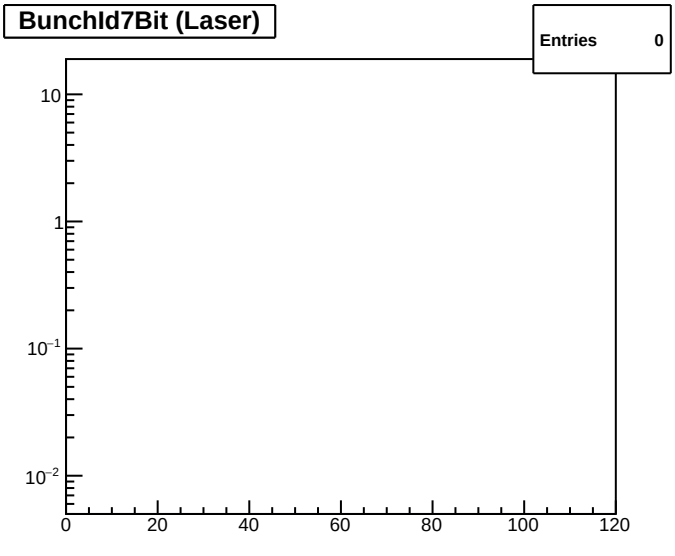
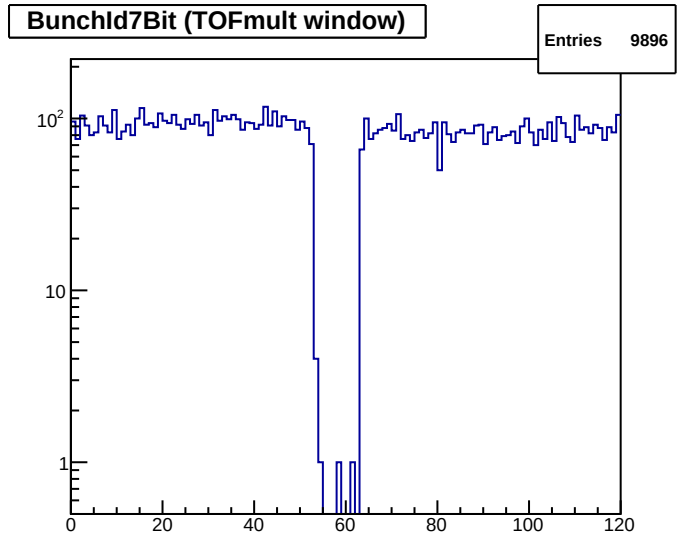

BunchId7Bit (VPD-TAC)
Entries 158586
10^3
10^2
10
0 20 40 60 80 100 120

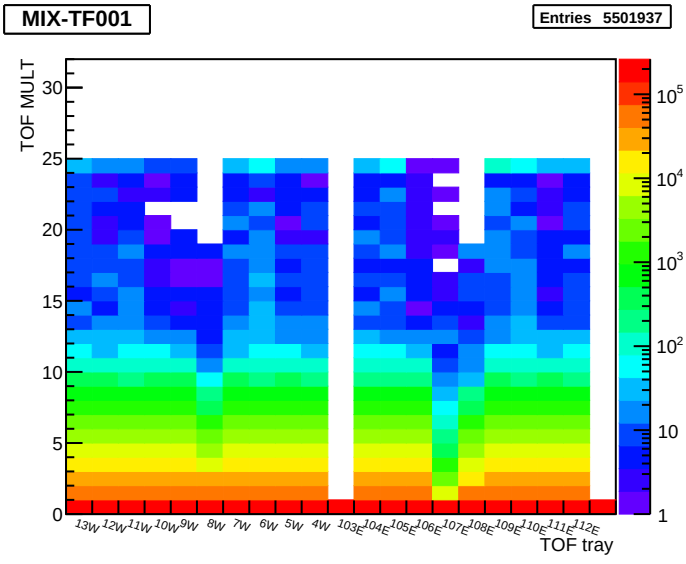

BunchId7Bit (ZDC-TAC)
Entries 653
10
1
0 20 40 60 80 100 120

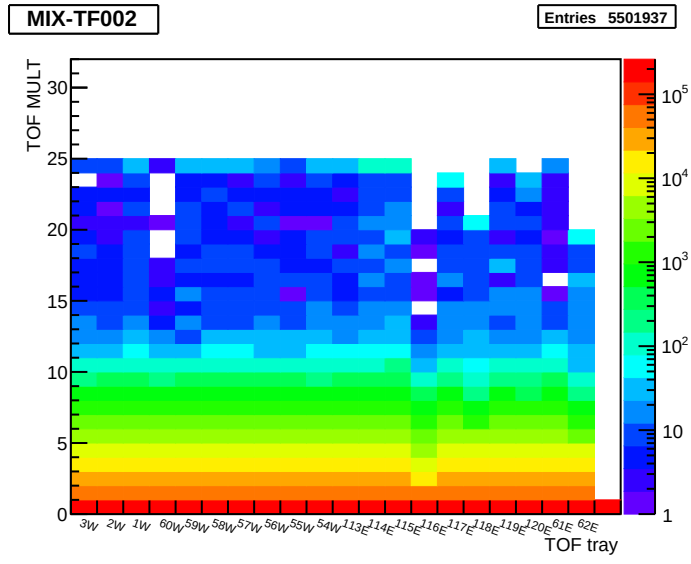

BunchId7Bit (EPD-TAC)
Entries 213966
10^3
10^2
10
0 20 40 60 80 100 120

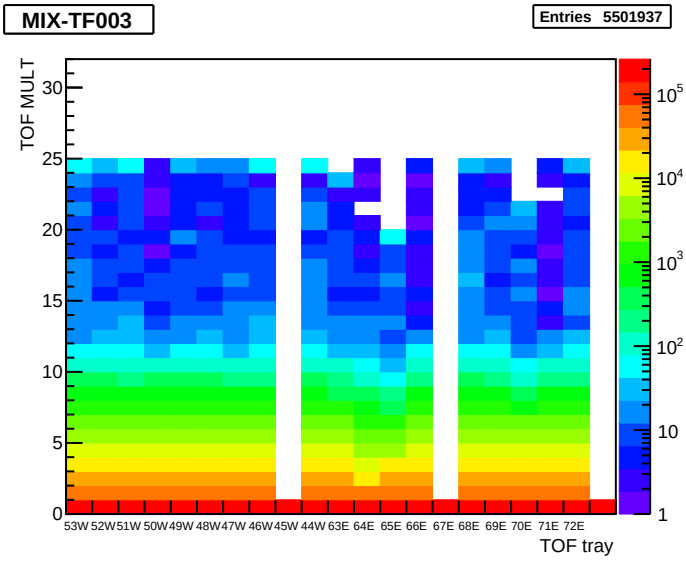

BunchId7Bit (BBC-TAC)
Entries 130820
10^3
10^2
10
1
0 20 40 60 80 100 120

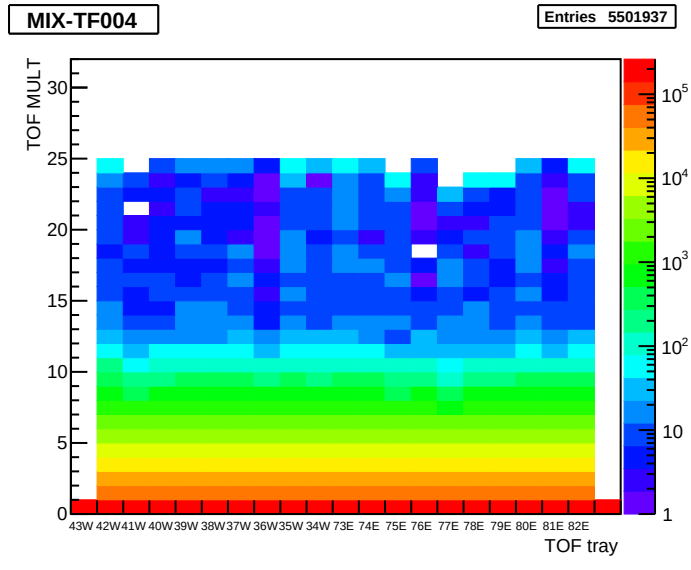

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

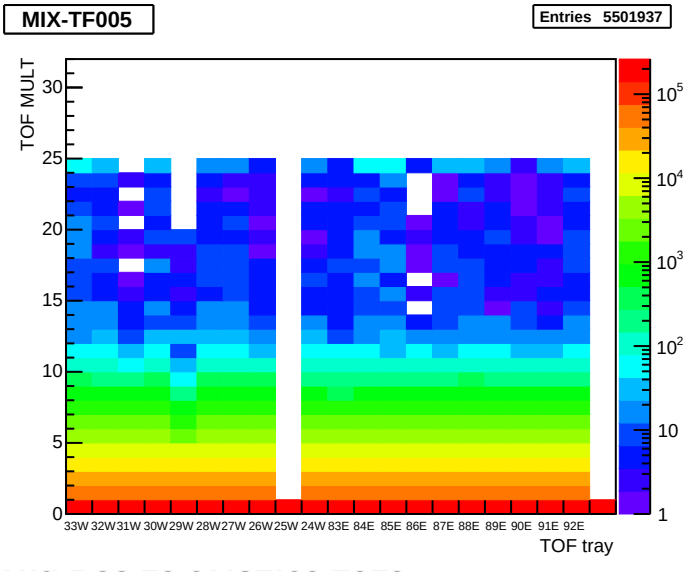

BunchId7Bit (TOFmult window)
Entries 9896
10^2
10
1
0 20 40 60 80 100 120

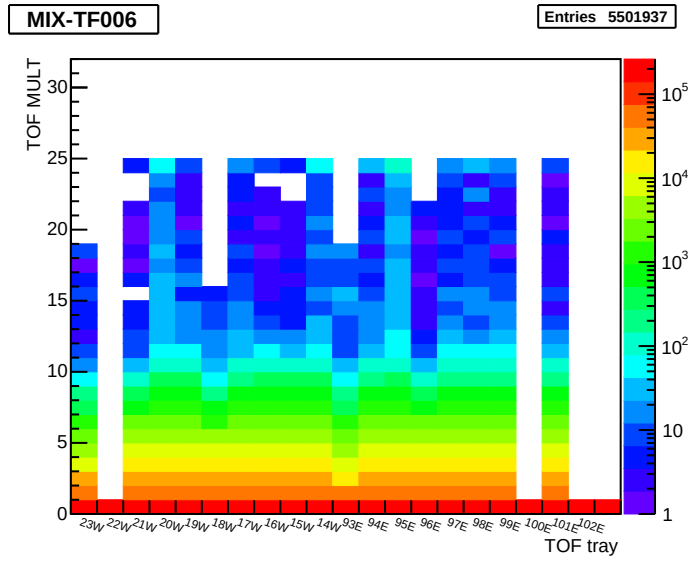

MIX-TF001
Entries 5501937
TOF MULT
TOF tray

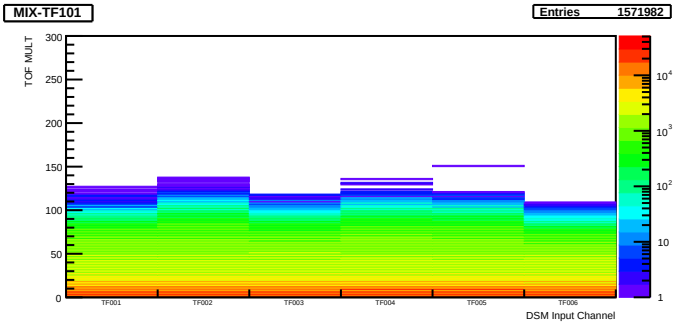

MIX-TF002
Entries 5501937
TOF MULT
TOF tray

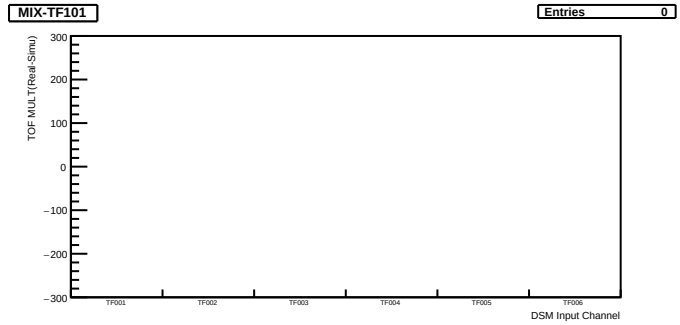

MIX-TF003
Entries 5501937
TOF MULT
TOF tray

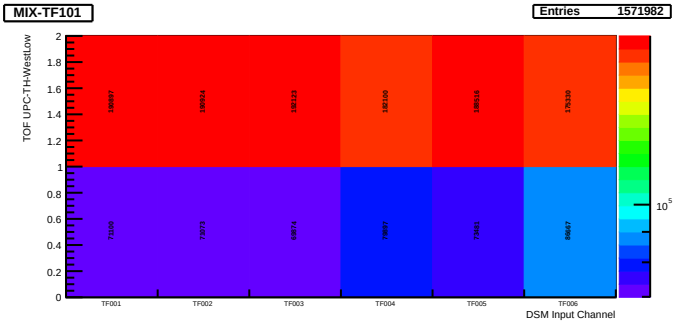

MIX-TF004
Entries 5501937
TOF MULT
TOF tray

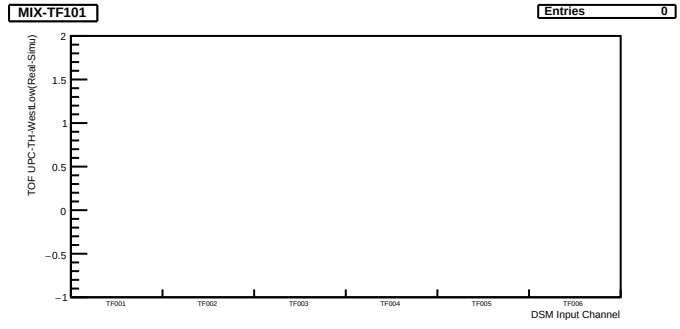

MIX-TF005
Entries 5501937
TOF MULT
TOF tray

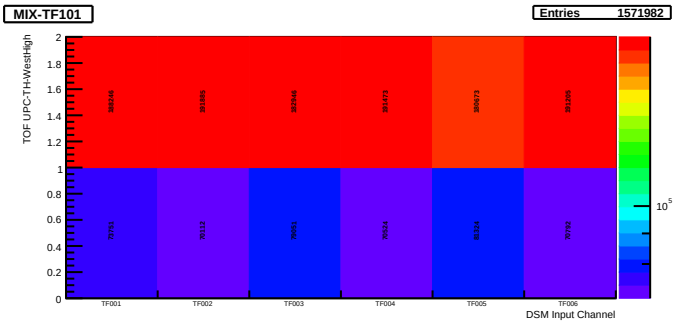

MIX-TF006
Entries 5501937
TOF MULT
TOF tray

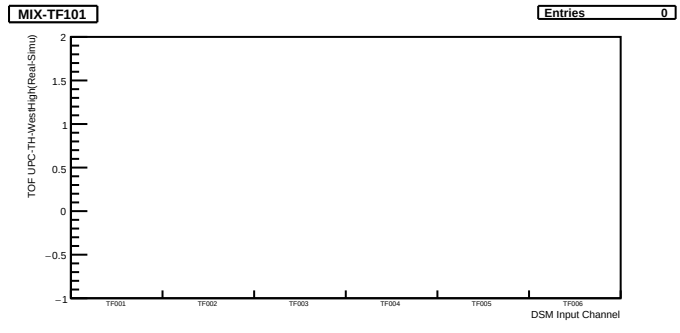

MIX-TF101
Entries 1571982
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

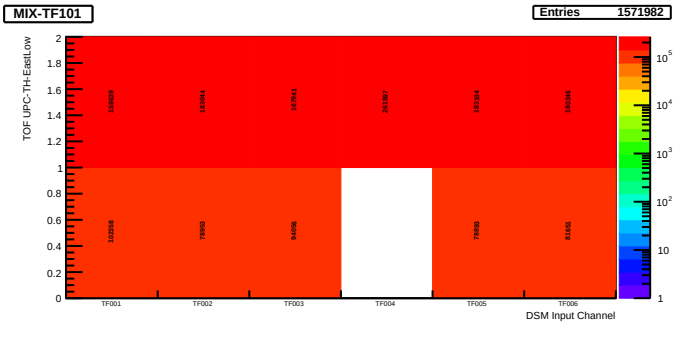

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

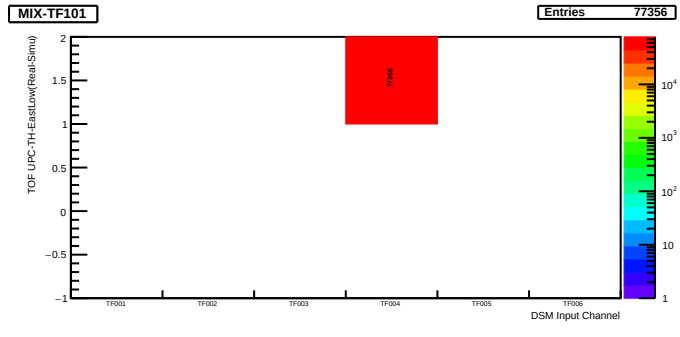

MIX-TF101
Entries 1571982
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

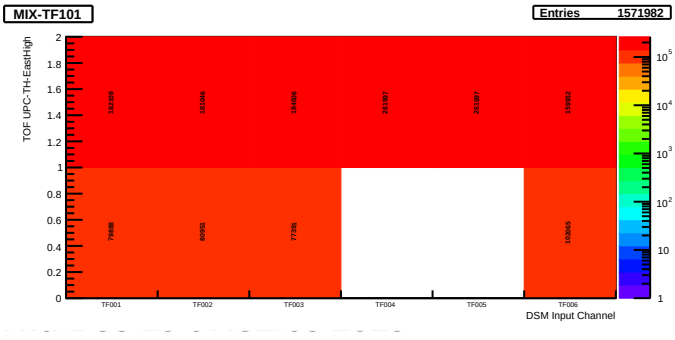

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

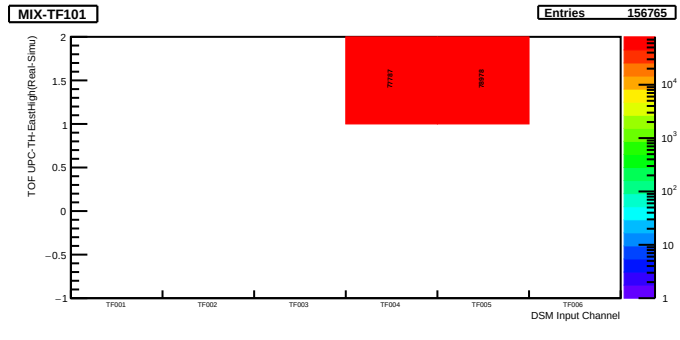

MIX-TF101
Entries 1571982
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

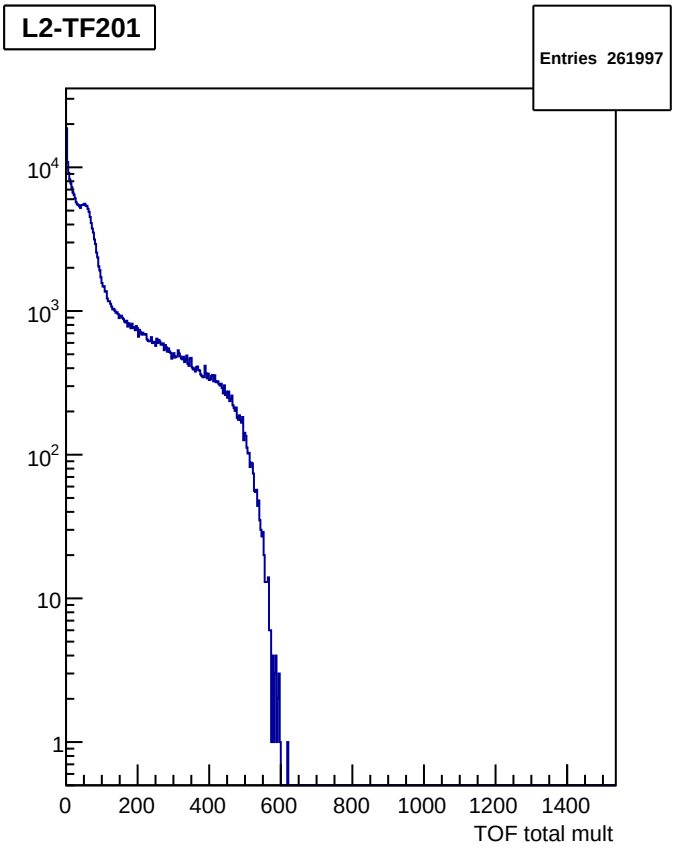

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

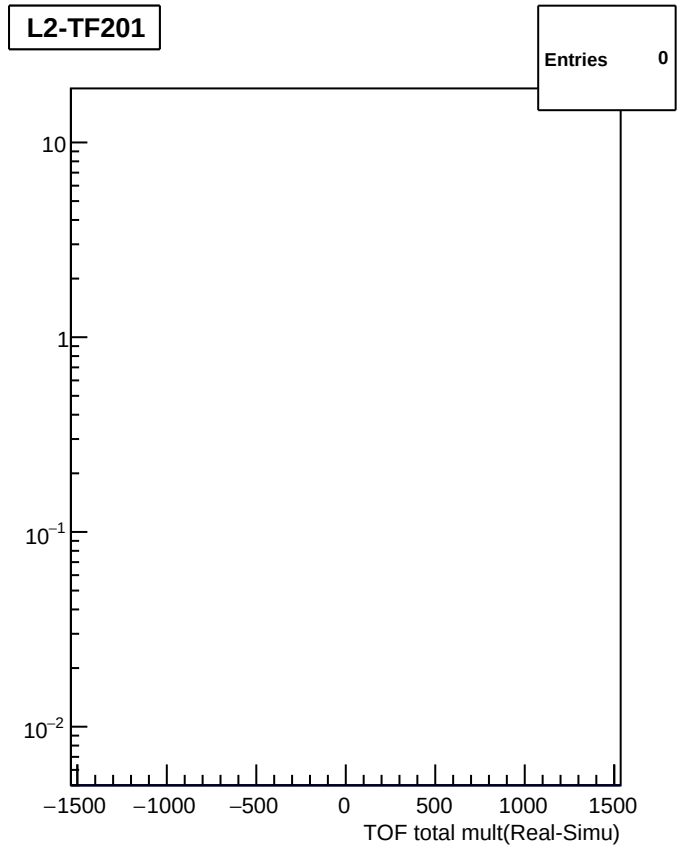

MIX-TF101
Entries 1571982
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

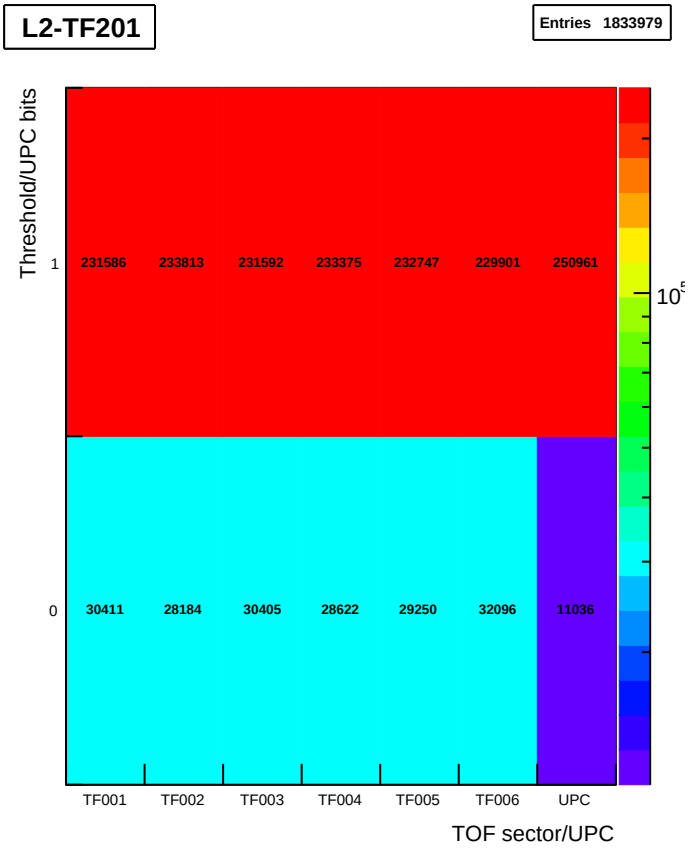

MIX-TF101
Entries 77356
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

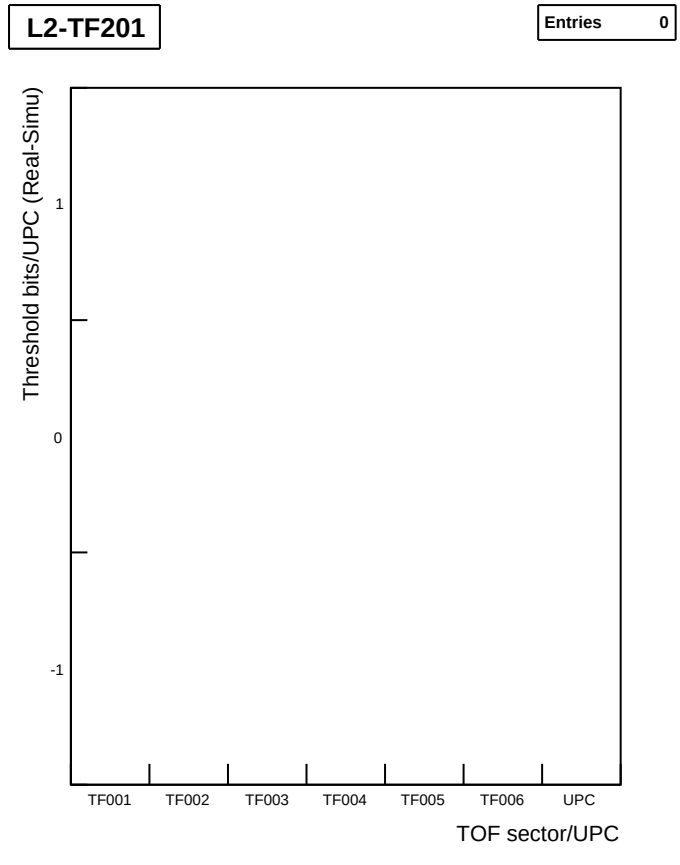

MIX-TF101
Entries 1571982
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

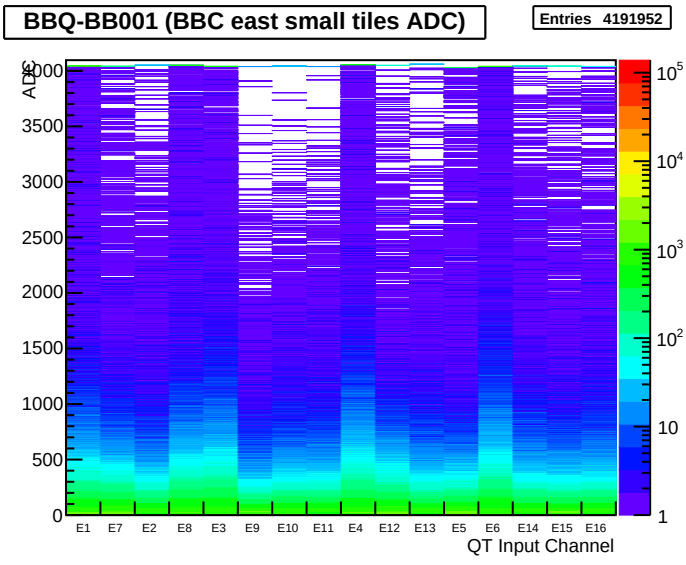

MIX-TF101
Entries 156765
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

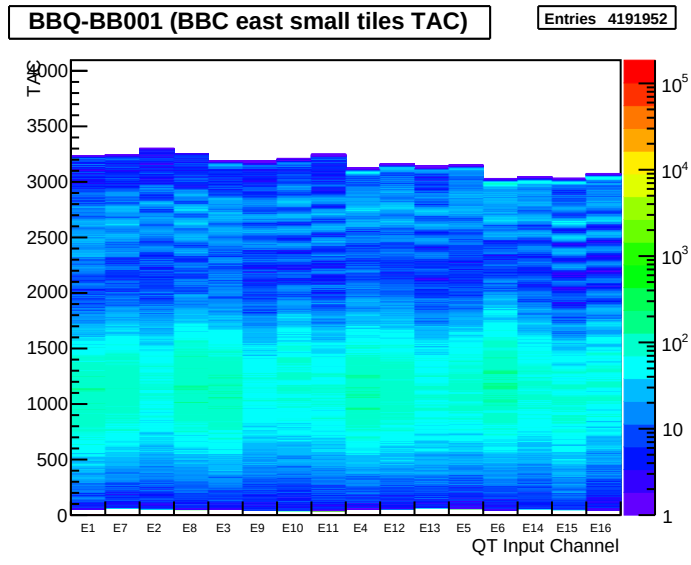

L2-TF201
Entries 261997
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

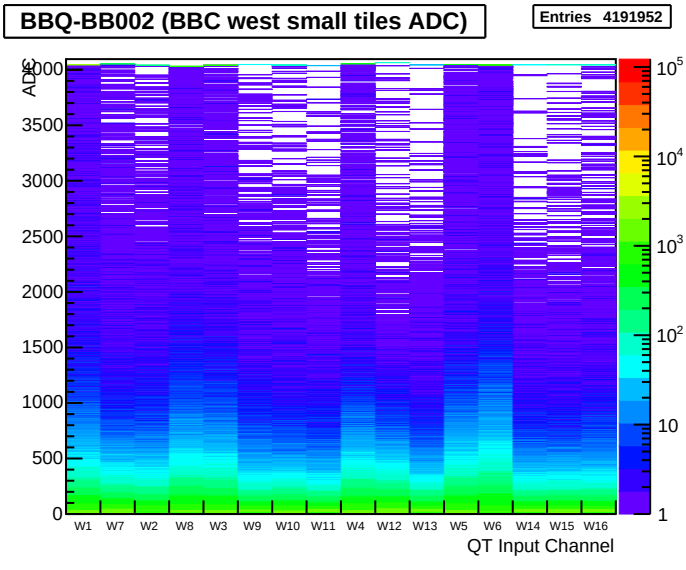

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

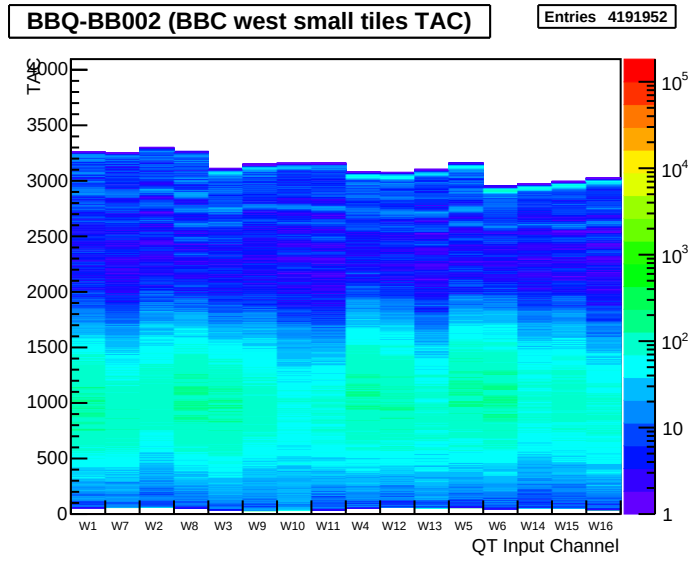

L2-TF201
Entries 1833979
Threshold/UPC bits
1
0
231586
233813
231592
233375
232747
229901
250961
30411
28184
30405
28622
29250
32096
11036
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

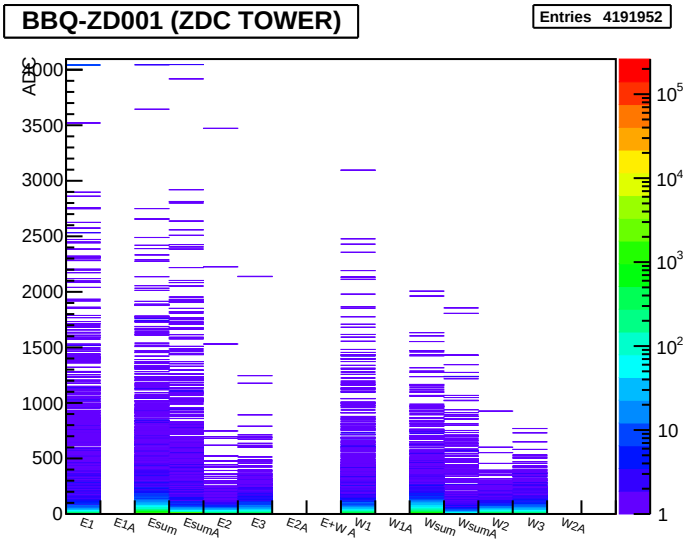

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

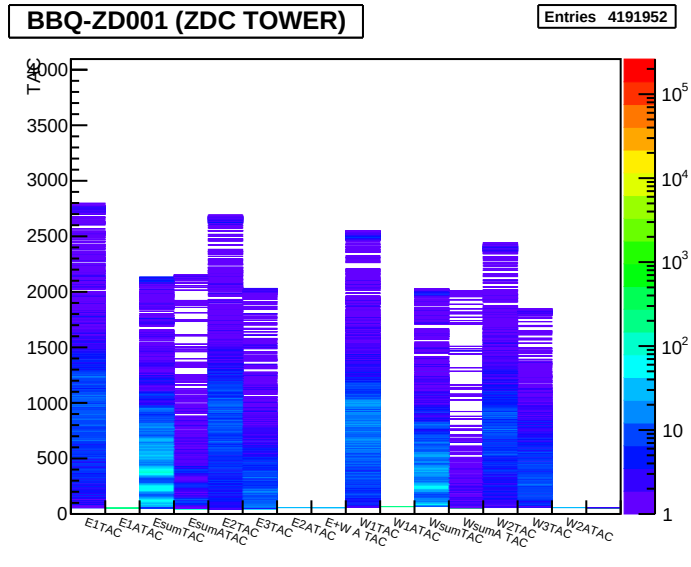

BBQ-BB001 (BBC east small tiles ADC)
Entries 4191952
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

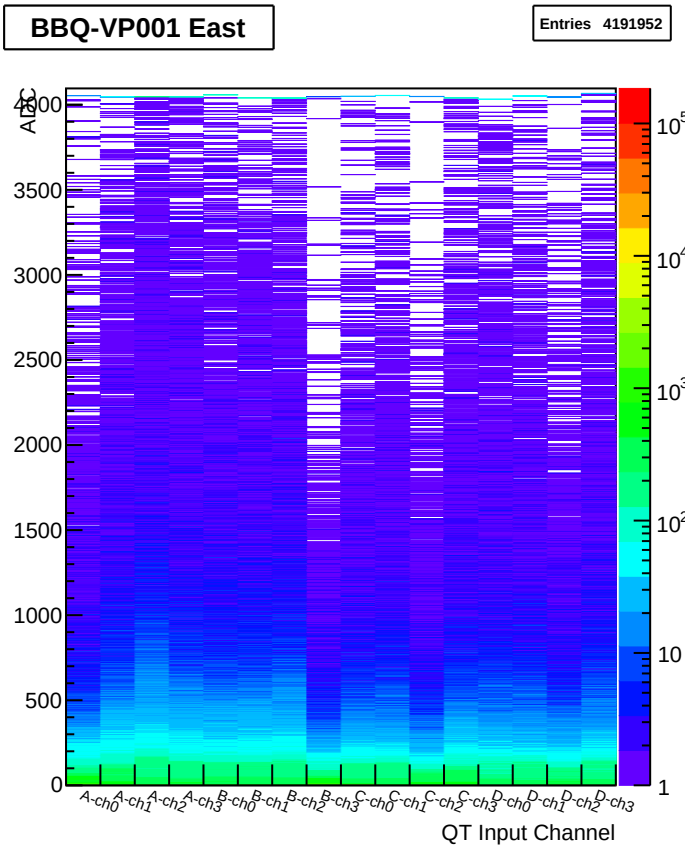

BBQ-BB001 (BBC east small tiles TAC)
Entries 4191952
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

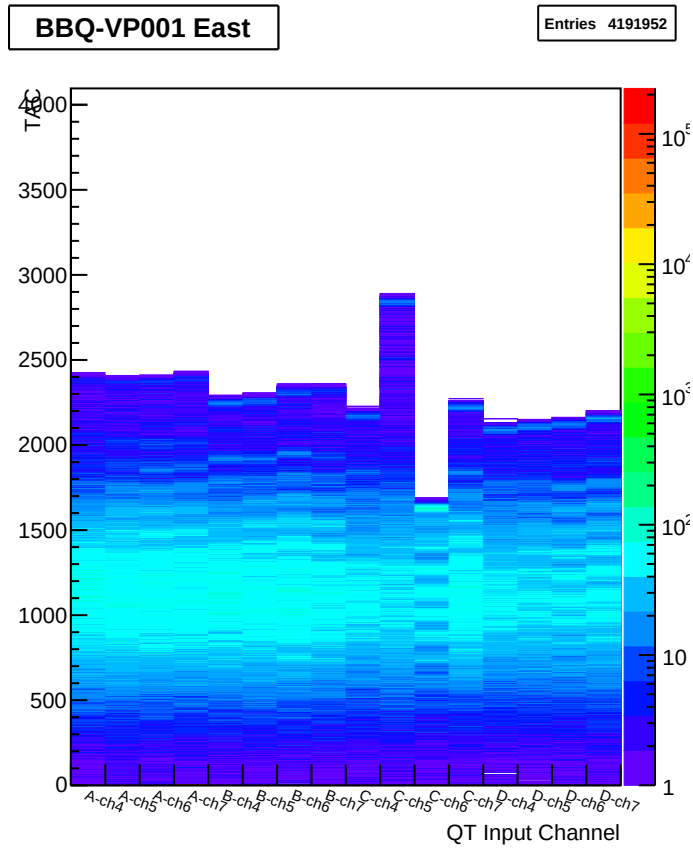

BBQ-BB002 (BBC west small tiles ADC)
Entries 4191952
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

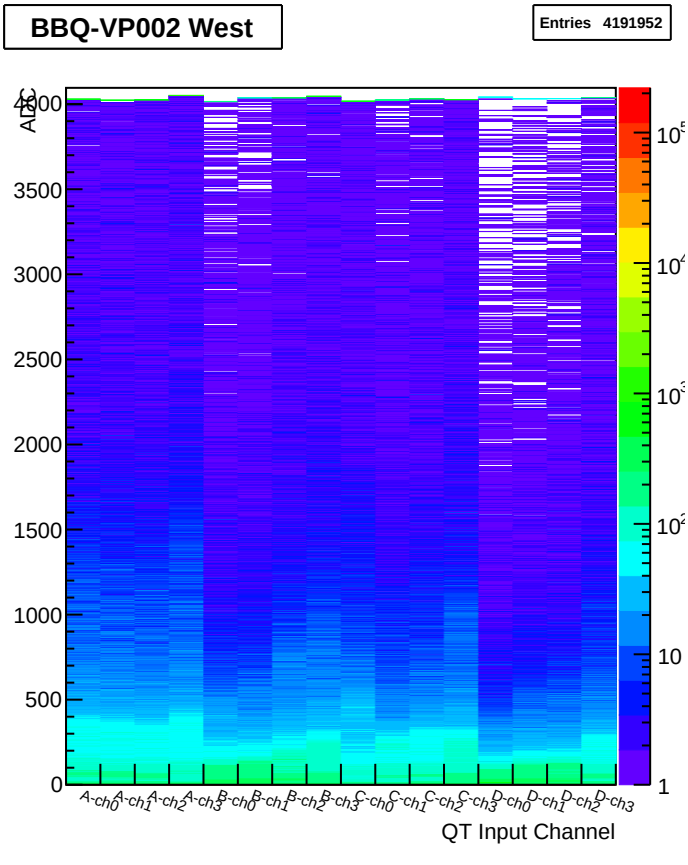

BBQ-BB002 (BBC west small tiles TAC)
Entries 4191952
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

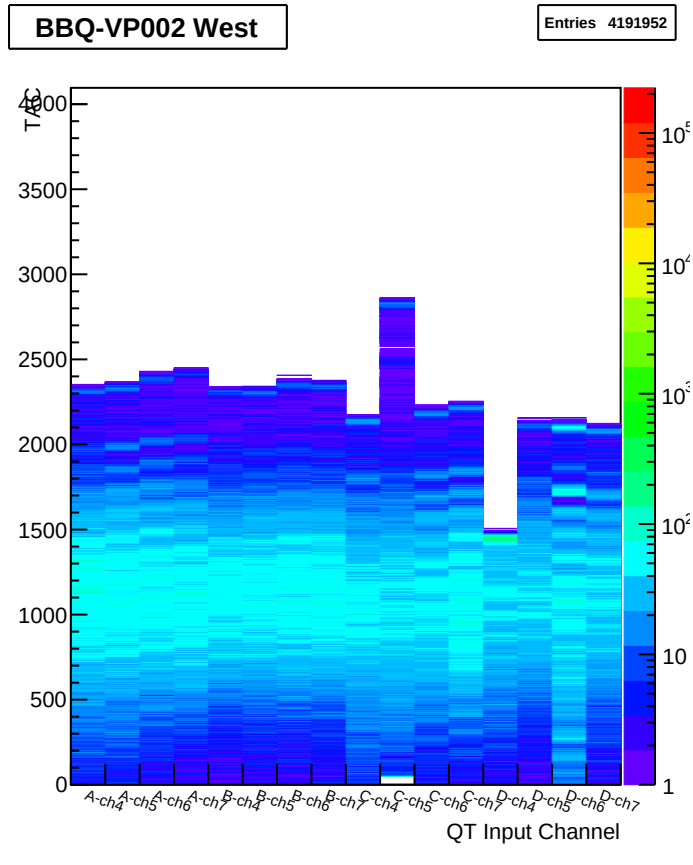

BBQ-ZD001 (ZDC TOWER)
Entries 4191952
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

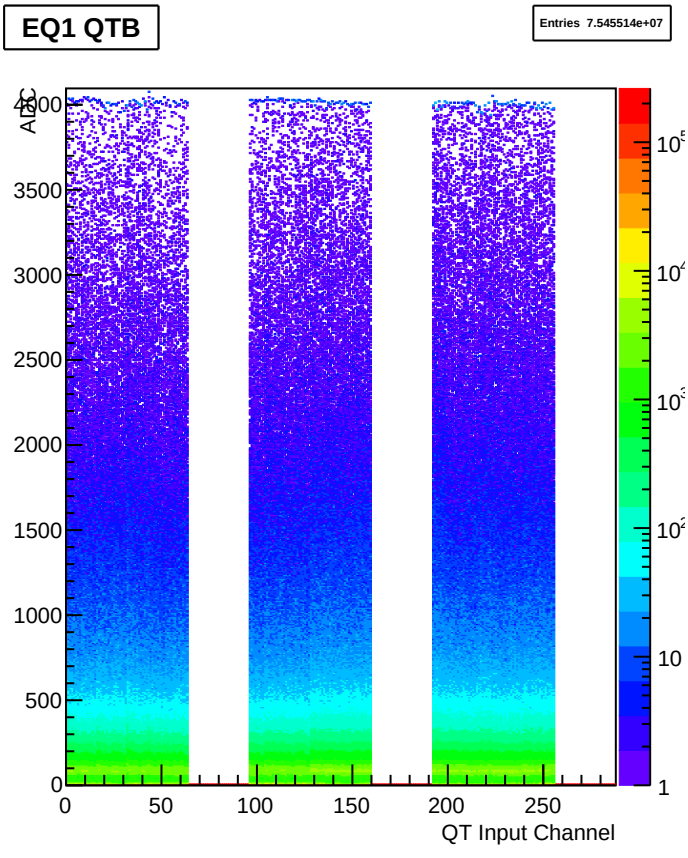

BBQ-ZD001 (ZDC TOWER)
Entries 4191952
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

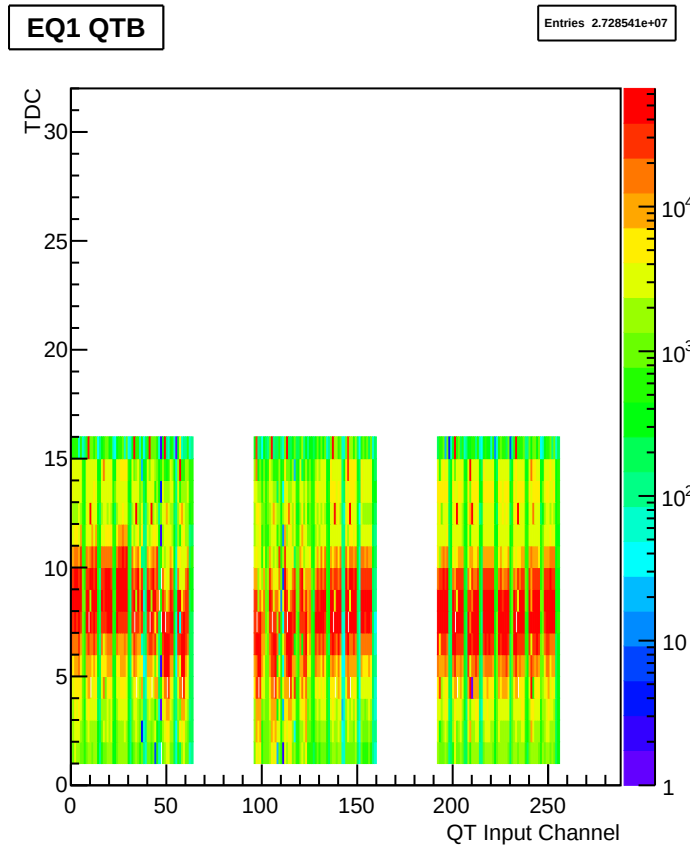

BBQ-VP001 East
Entries 4191952
ADC
QT Input Channel

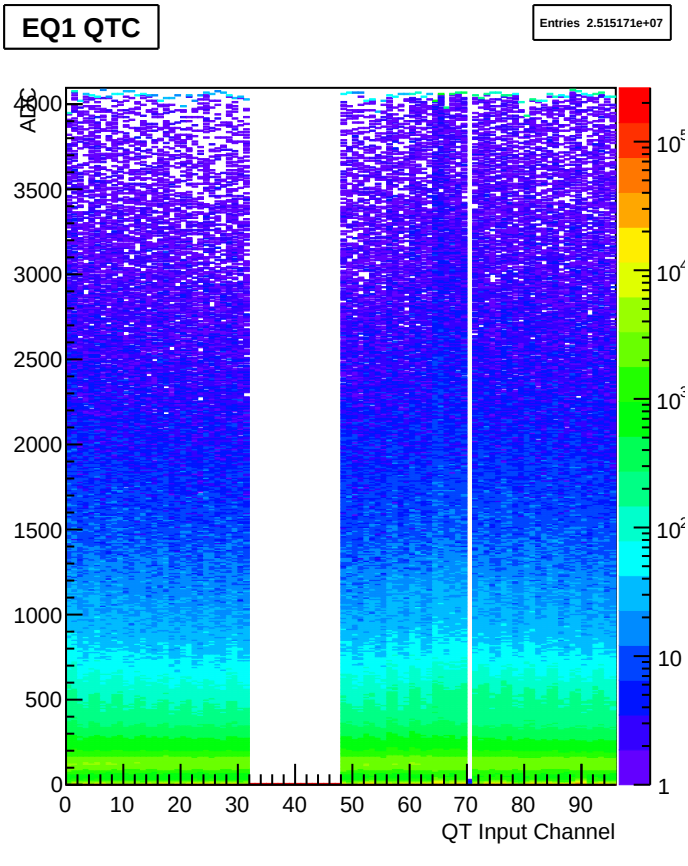

BBQ-VP001 East
Entries 4191952
TADC
QT Input Channel

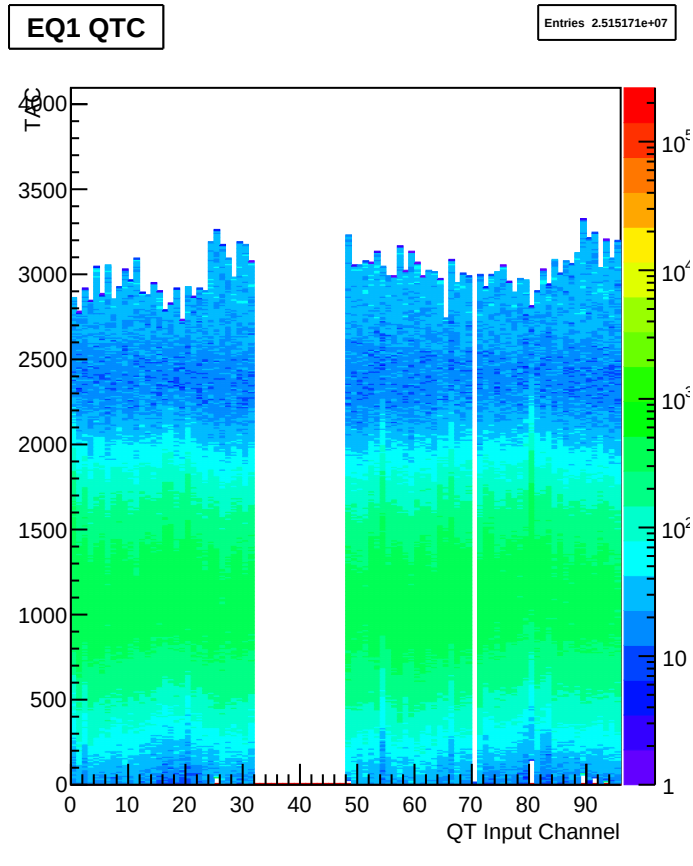

BBQ-VP002 West
Entries 4191952
ADC
QT Input Channel

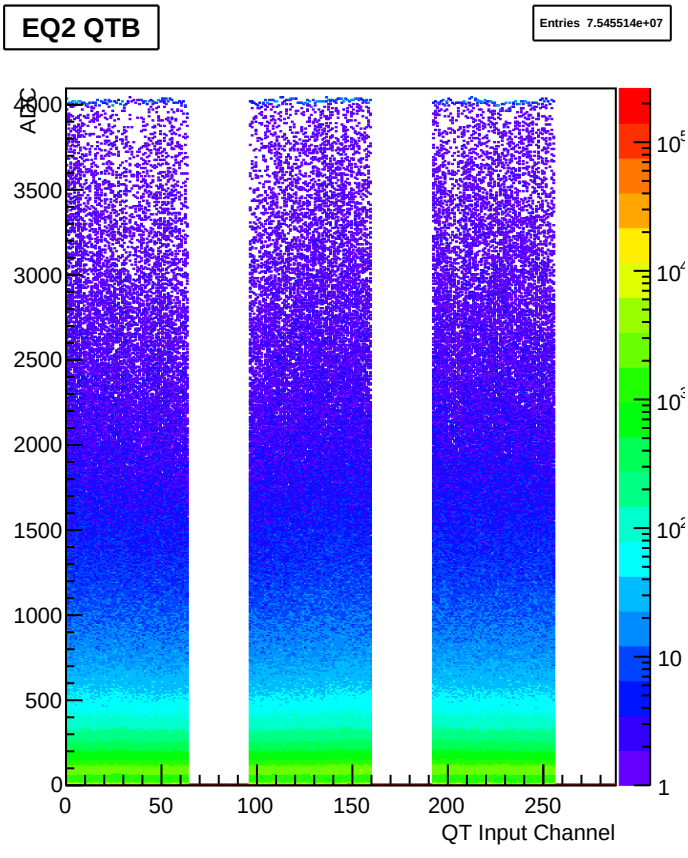

BBQ-VP002 West
Entries 4191952
TADC
QT Input Channel

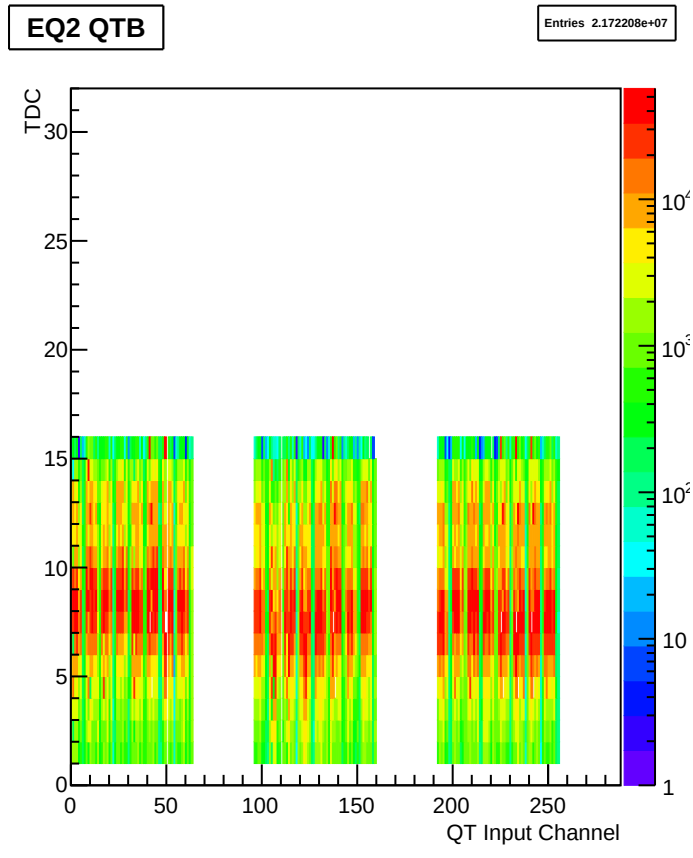

EQ1 QTB
Entries 7.545514e+07
ADC
QT Input Channel

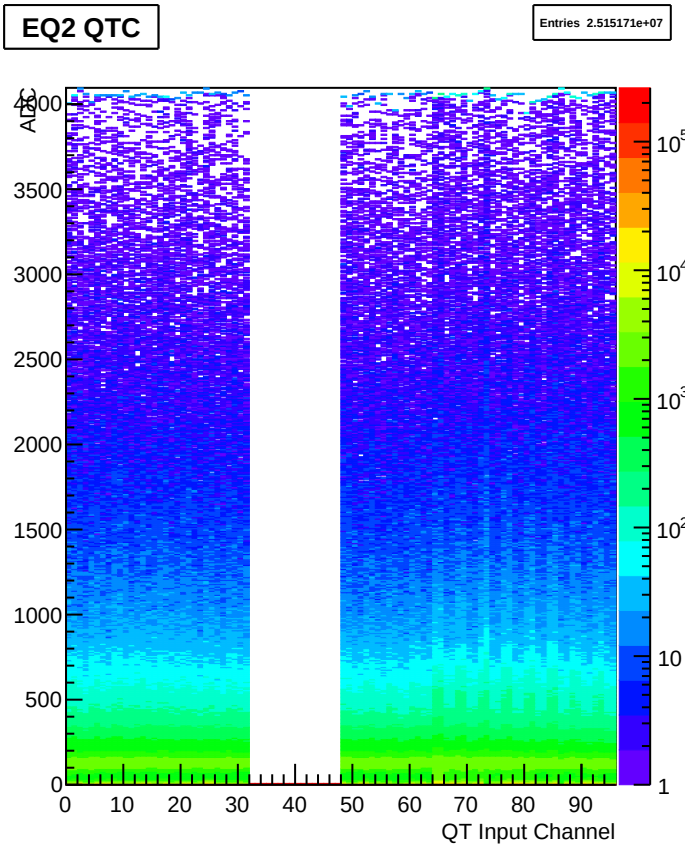

EQ1 QTB
Entries 2.728541e+07
TDC
QT Input Channel

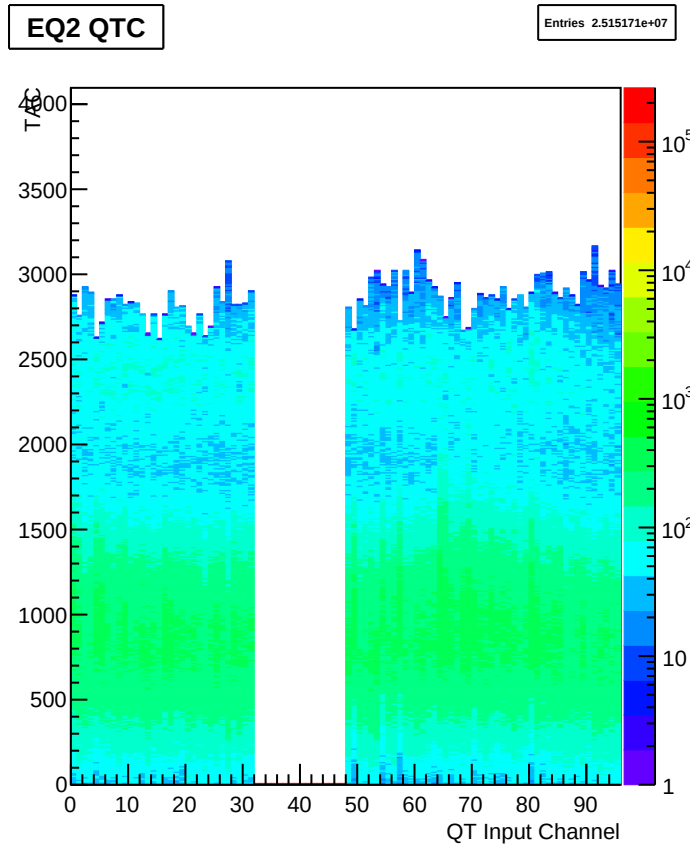

EQ1 QTC
Entries 2.515171e+07
ADC
QT Input Channel

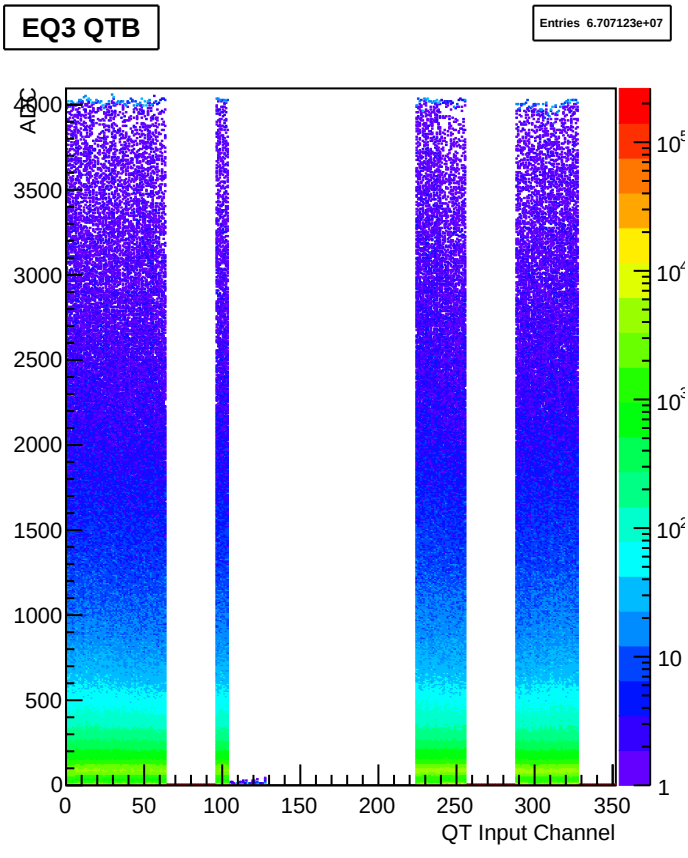

EQ1 QTC
Entries 2.515171e+07
TADC
QT Input Channel

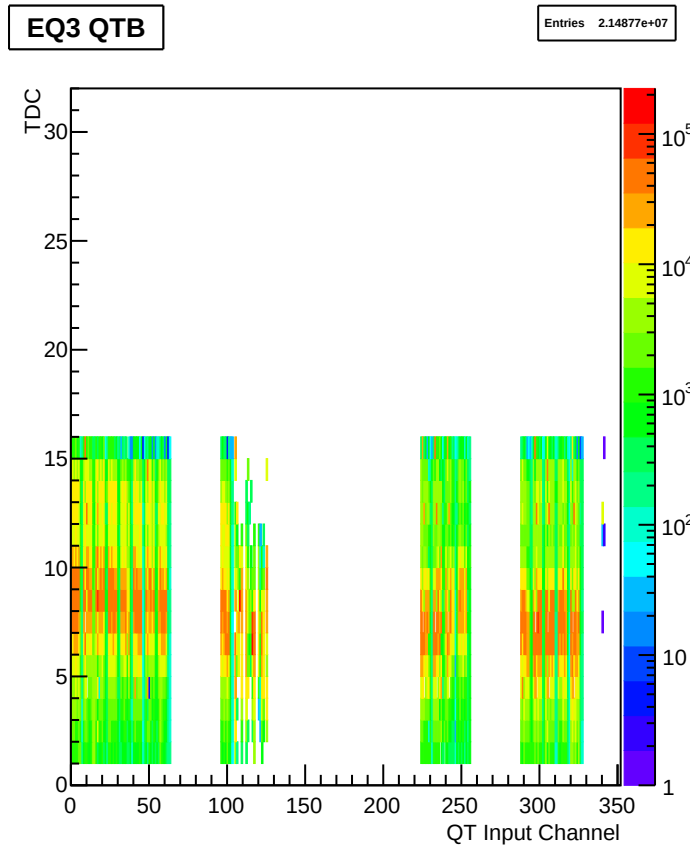

EQ2 QTB
Entries 7.545514e+07
ADC
QT Input Channel

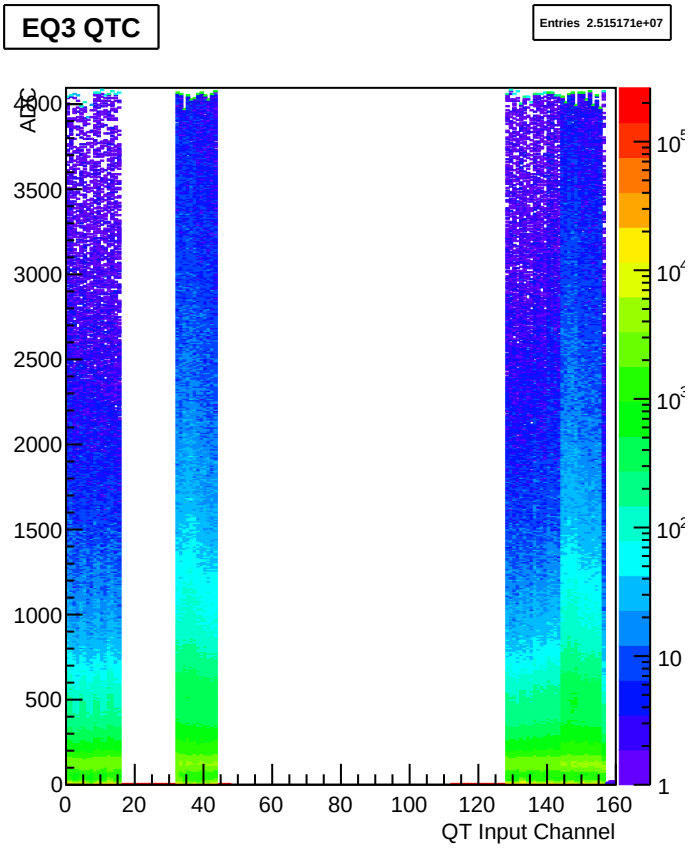

EQ2 QTB
Entries 2.172208e+07
TDC
QT Input Channel

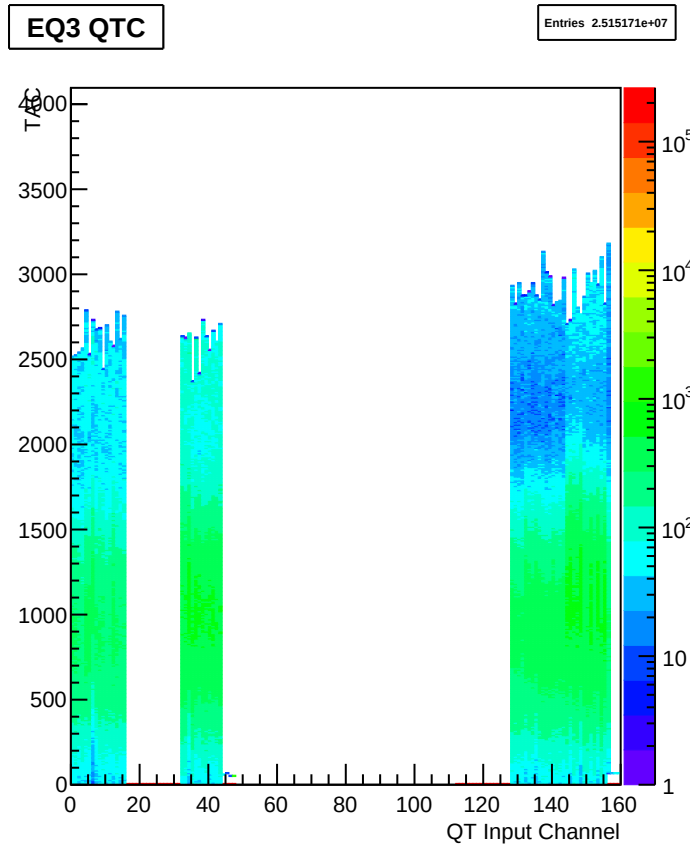

EQ2 QTC
Entries 2.515171e+07
ADC
QT Input Channel

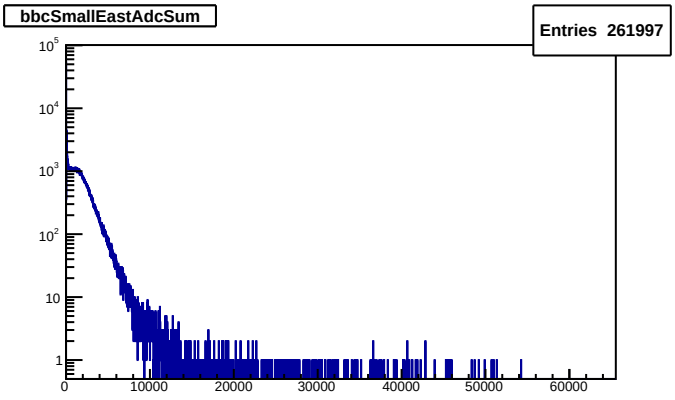

EQ2 QTC
Entries 2.515171e+07
TADC
QT Input Channel

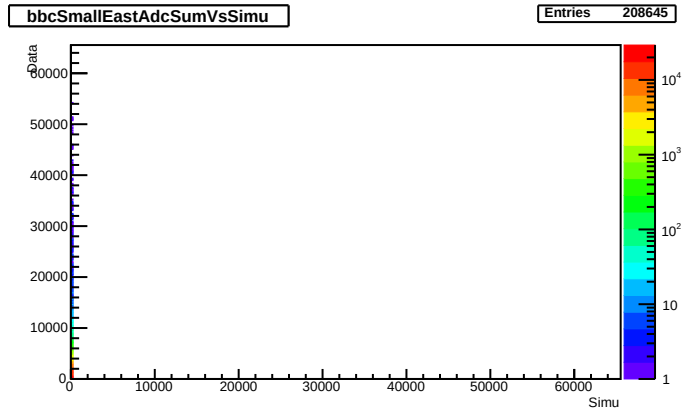

EQ3 QTB
Entries 6.707123e+07
ADC
QT Input Channel

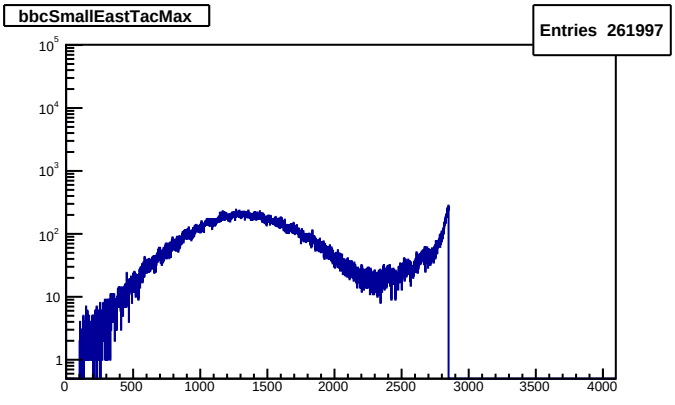

EQ3 QTB
Entries 2.14877e+07
TDC
QT Input Channel

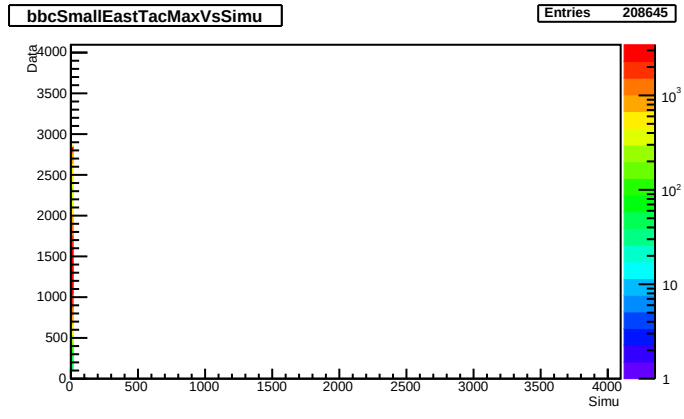

EQ3 QTC
Entries 2.515171e+07
ADC
QT Input Channel

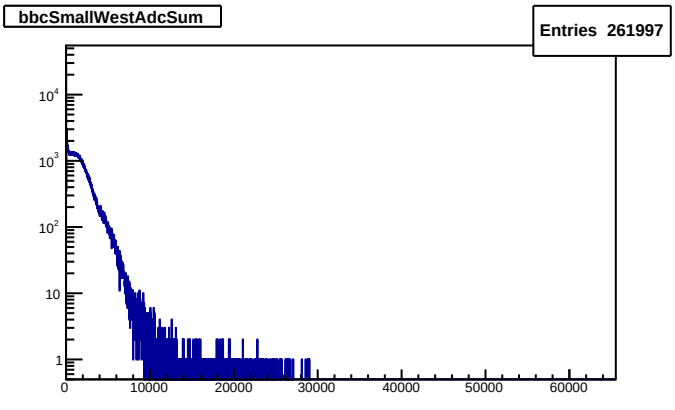

EQ3 QTC
Entries 2.515171e+07
TADC
QT Input Channel

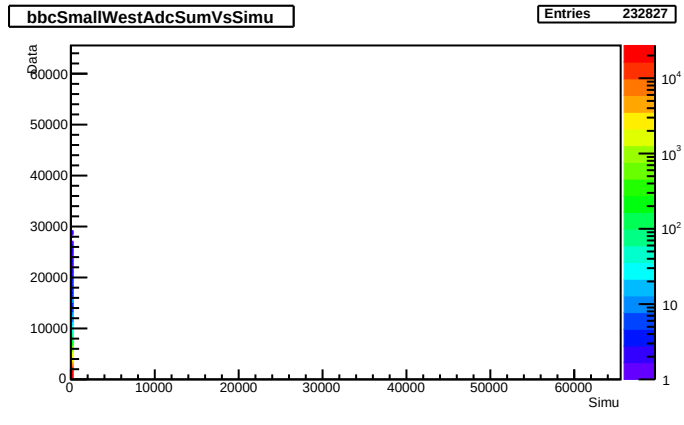

bbcSmallEastAdcSum
Entries 261997

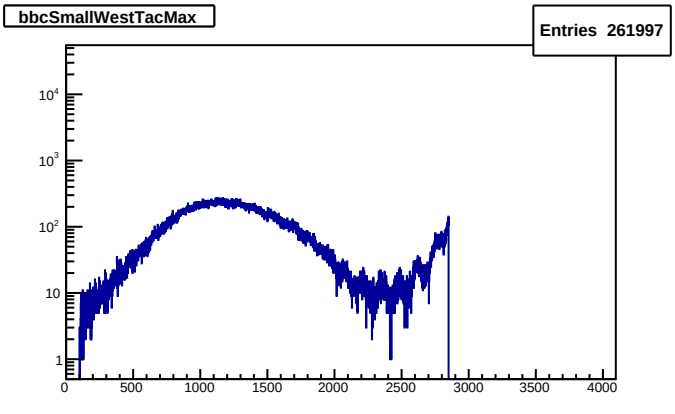

bbcSmallEastAdcSumVsSimu
Entries 208645
Data
Simu

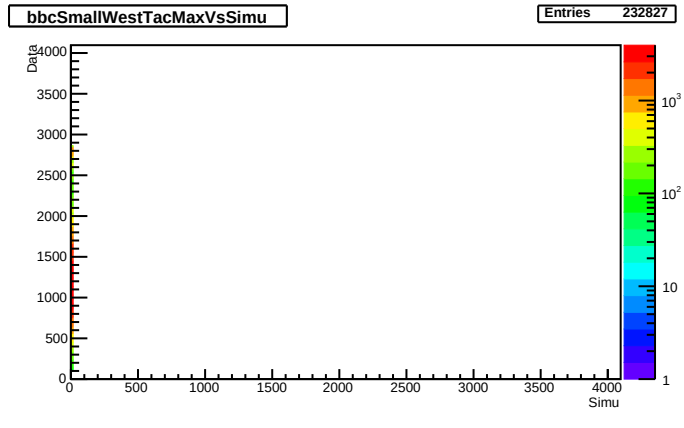

bbcSmallEastTacMax
Entries 261997

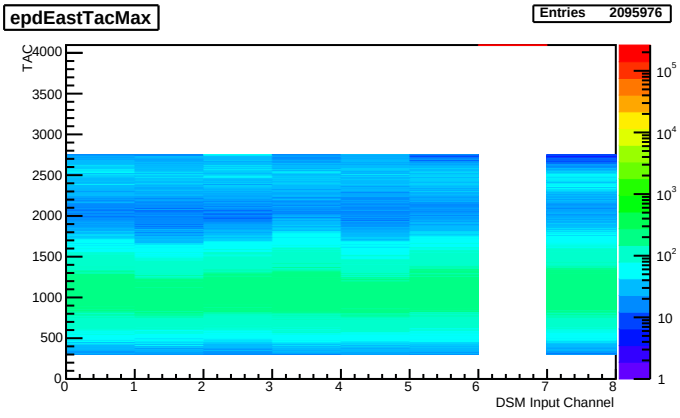

bbcSmallEastTacMaxVsSimu
Entries 208645
Data
Simu

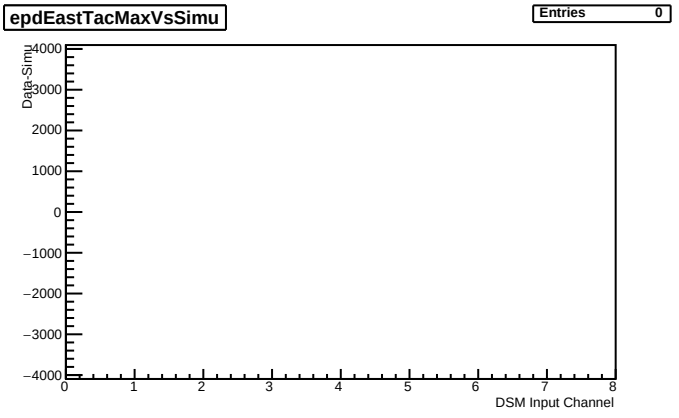

bbcSmallWestAdcSum
Entries 261997

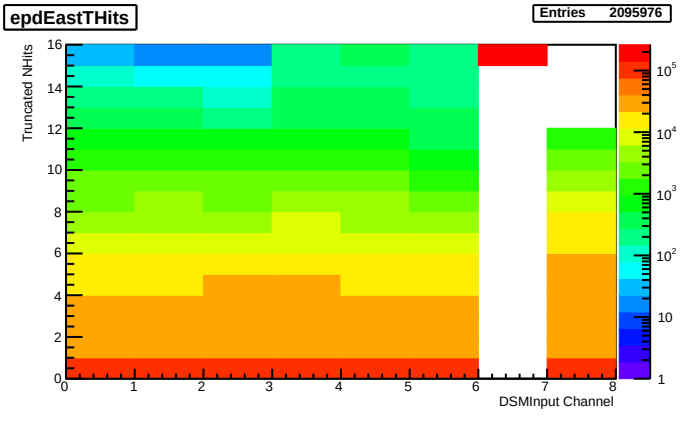

bbcSmallWestAdcSumVsSimu
Entries 232827
Data
Simu

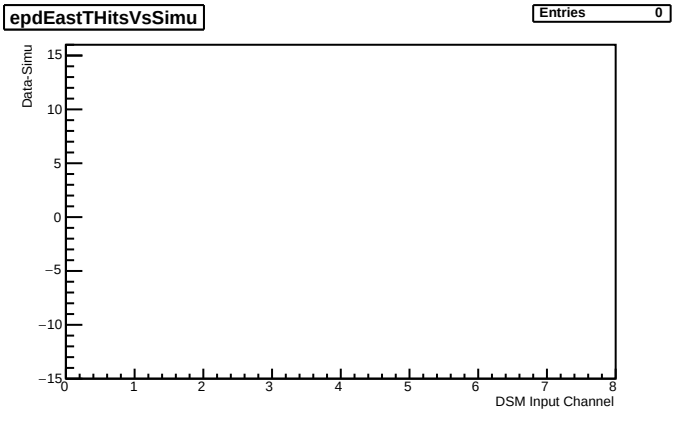

bbcSmallWestTacMax
Entries 261997

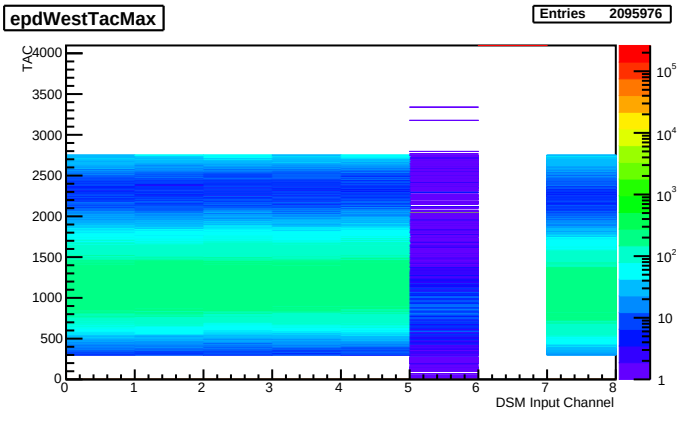

bbcSmallWestTacMaxVsSimu
Entries 232827
Data
Simu


epdEastTacMax
Entries 2095976
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 2095976
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel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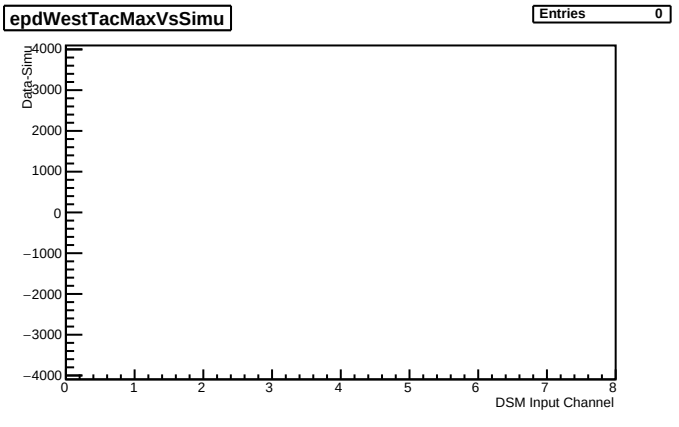
Entries 2095976
TAC
DSM Input Channel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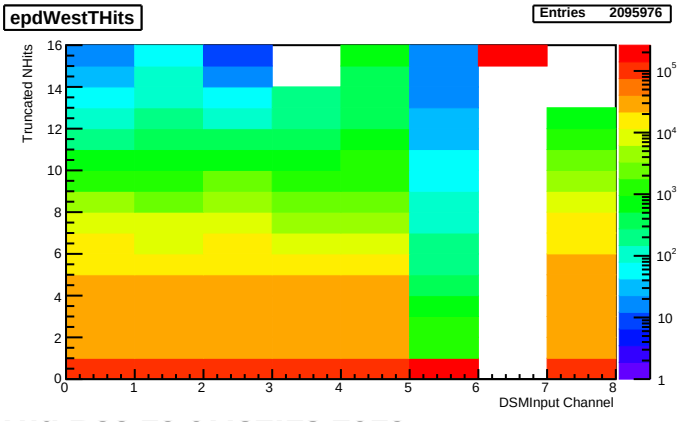
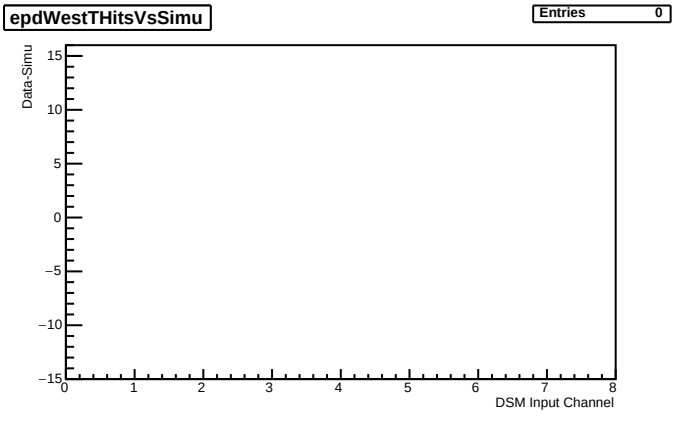
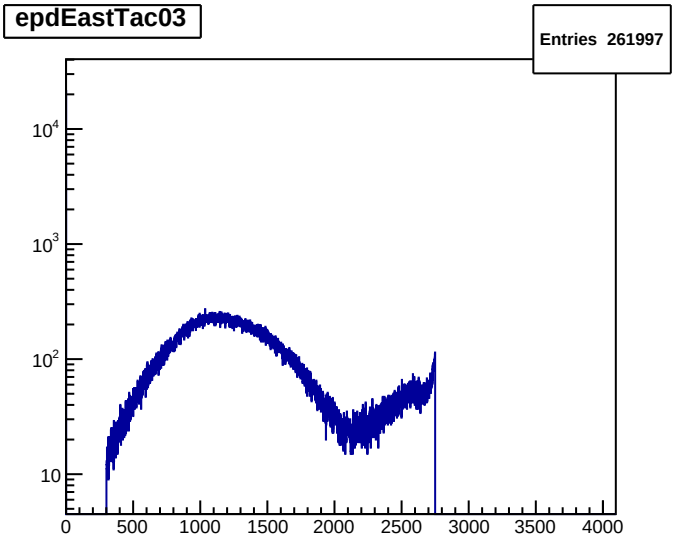
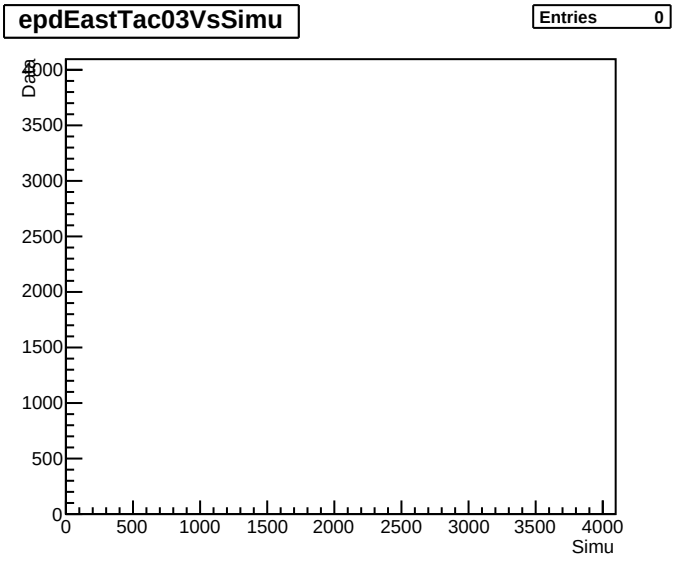
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 2095976
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 261997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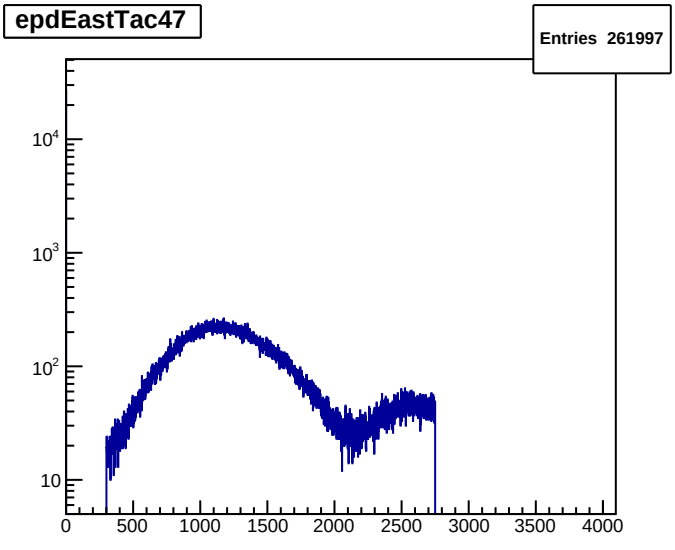
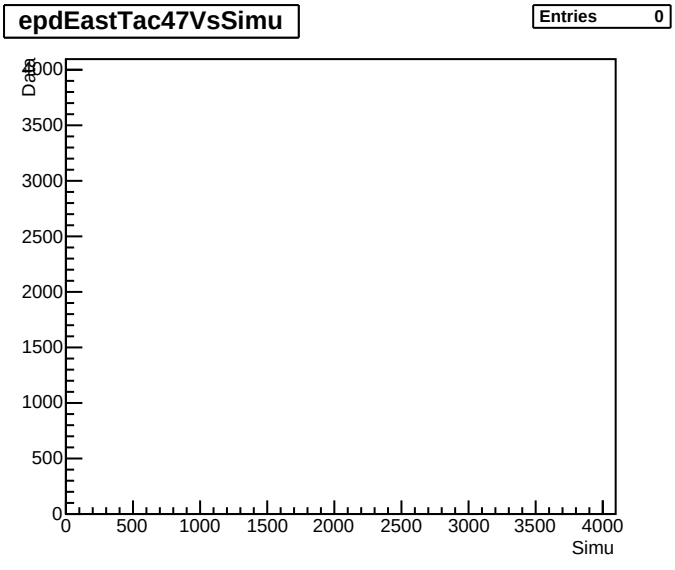
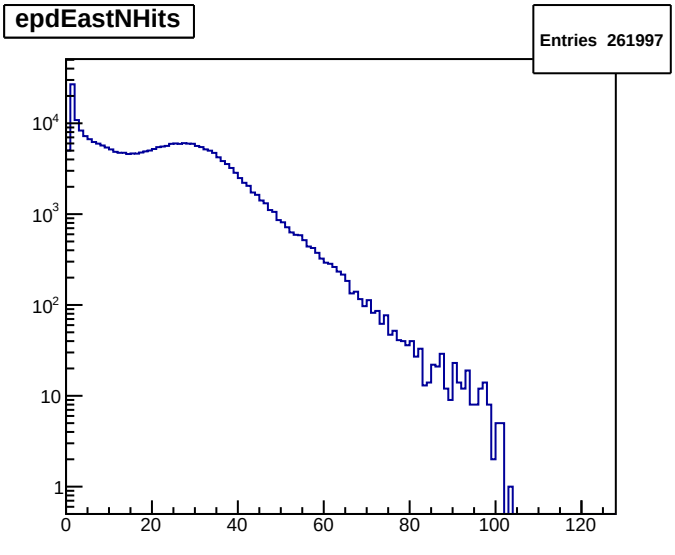
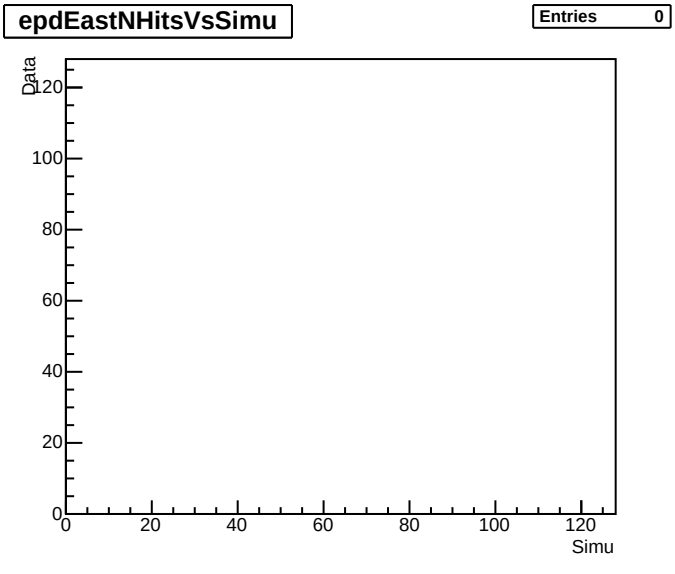
Entries 0
Data
Simu


epdEastTac47
Entries 261997


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 261997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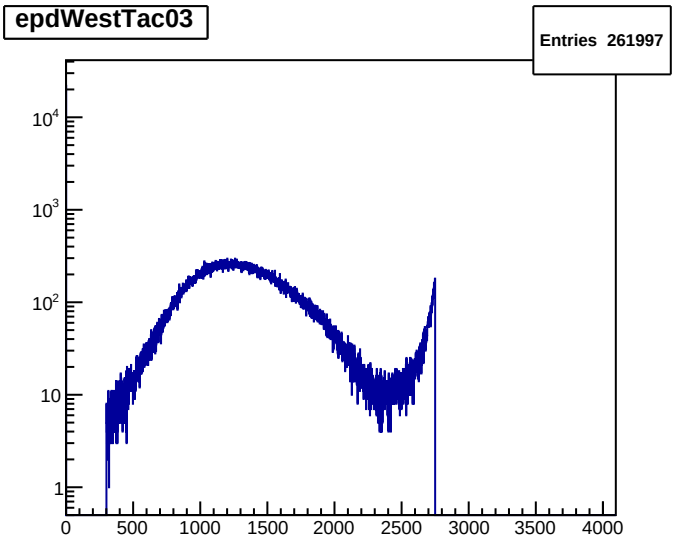
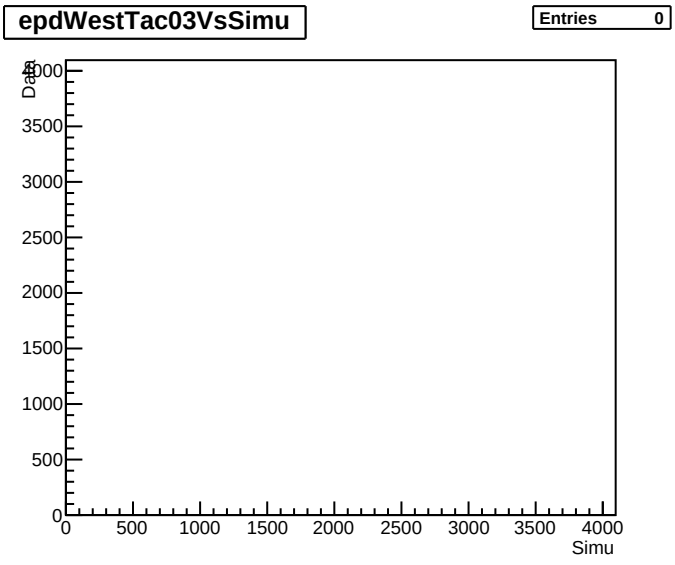
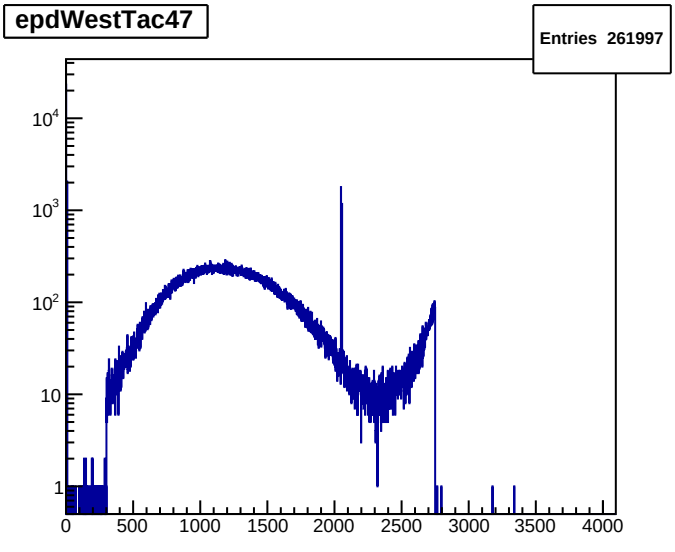
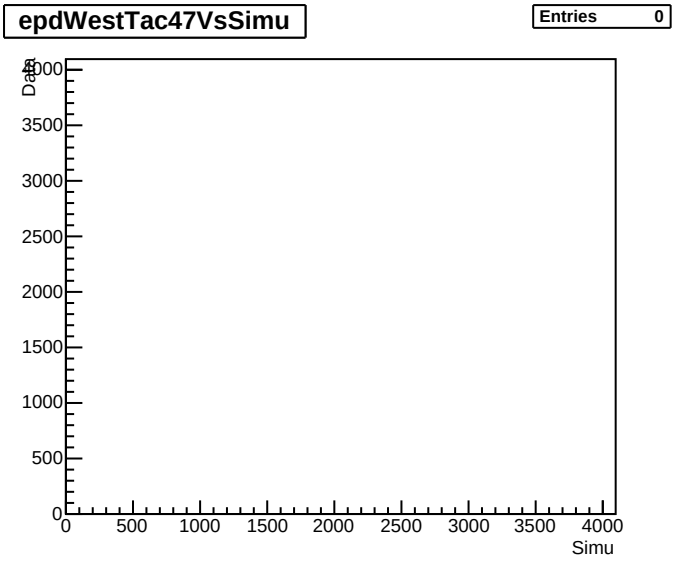
Entries 0
Data
Simu


epdWestTac03
Entries 261997


epdWestTac03VsSimu
Entries 0
Data
Simu


epdWestTac47
Entries 261997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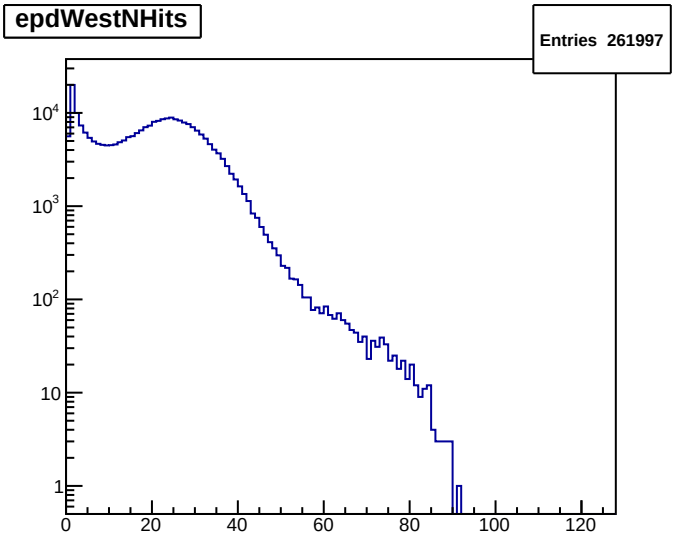
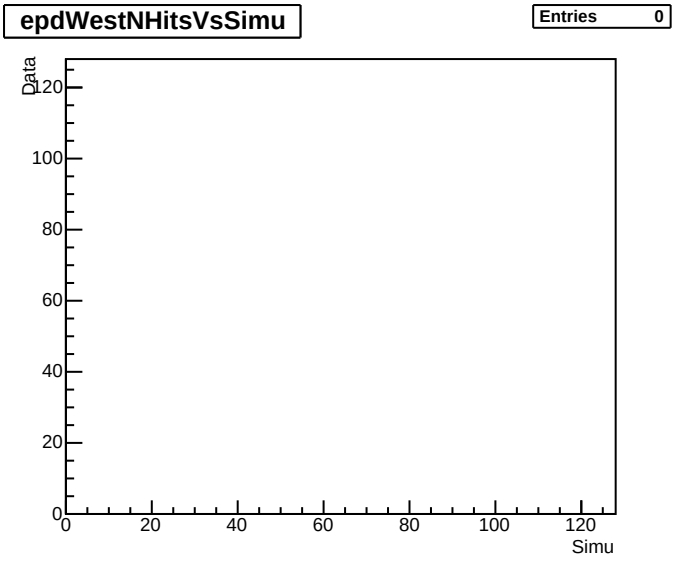
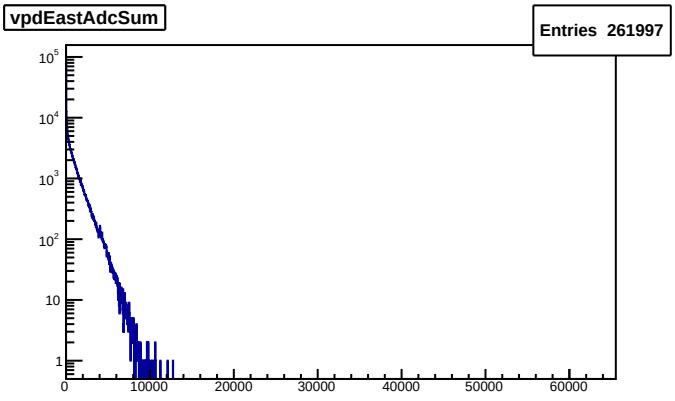
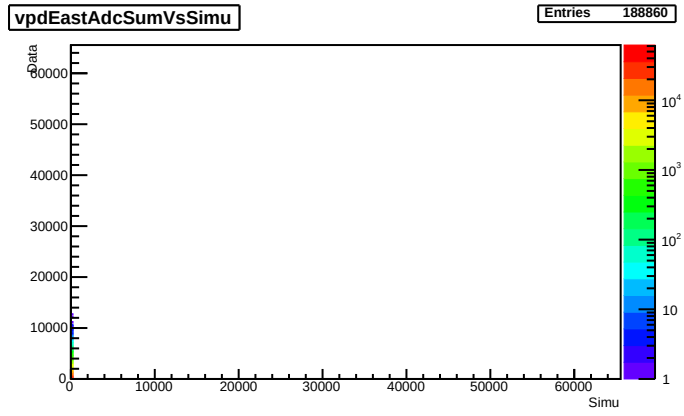
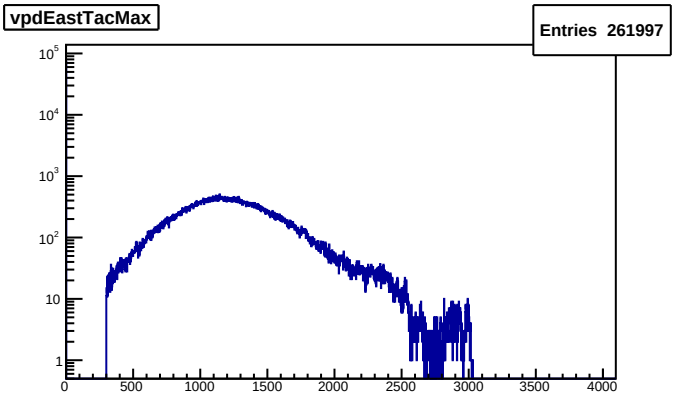
Entries 0
Data
Simu

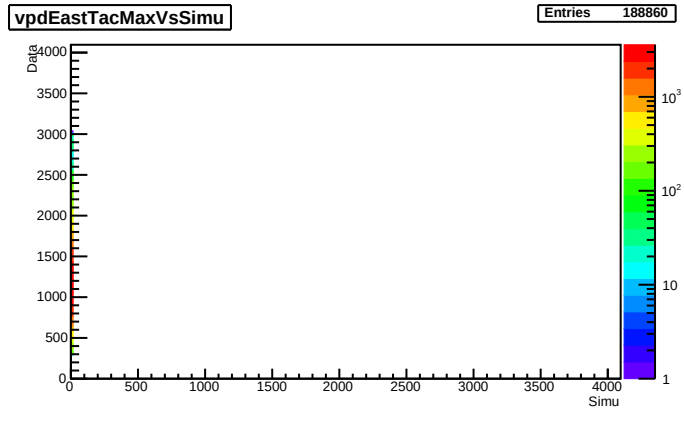

epdWestNHits
Entries 261997

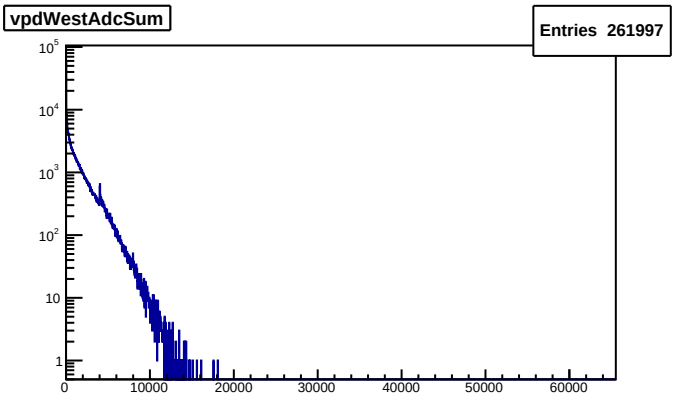

epdWestNHitsVsSimu
Entries 0
Data
Simu

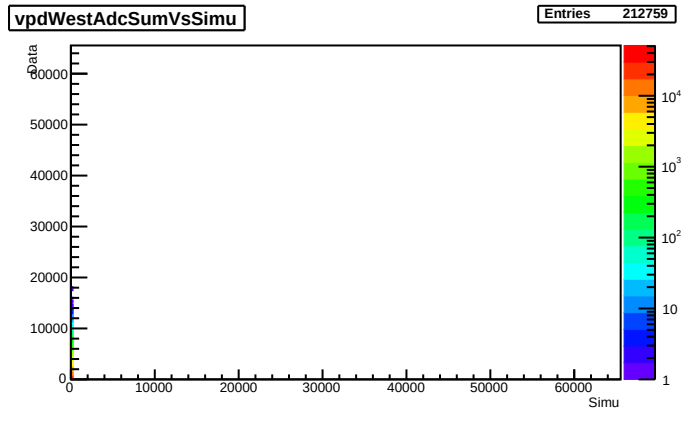

vpdEastAdcSum
Entries 261997

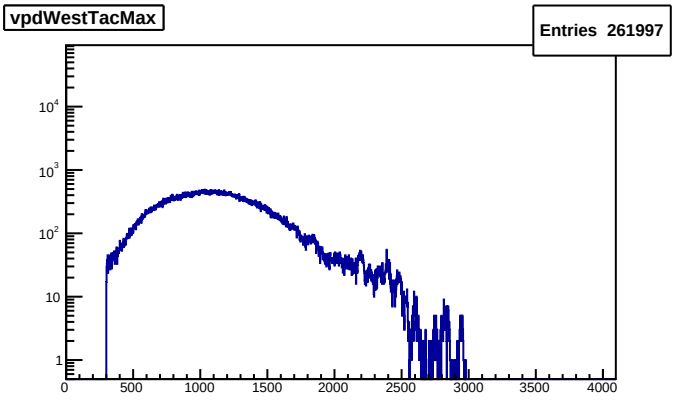

vpdEastAdcSumVsSimu
Entries 188860
Data
Simu

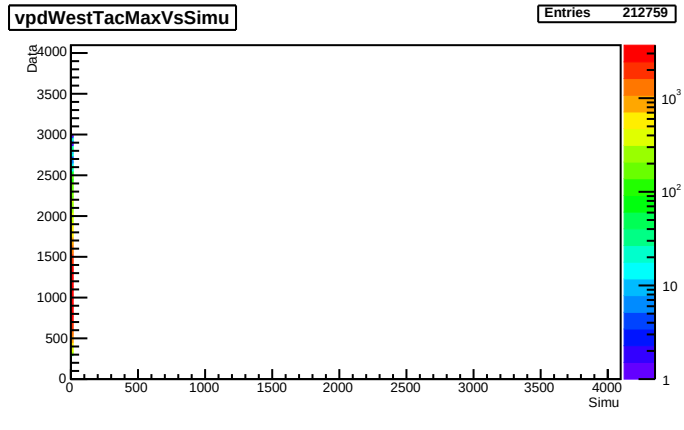

vpdEastTacMax
Entries 261997

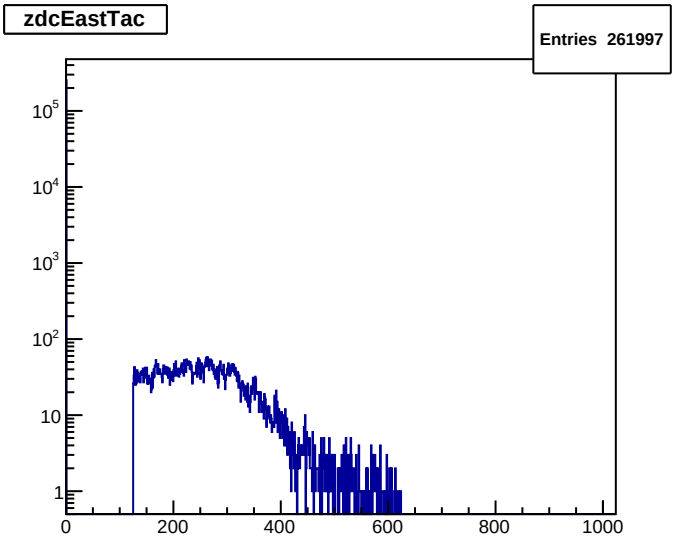

vpdEastTacMaxVsSimu
Entries 188860
Data
Simu

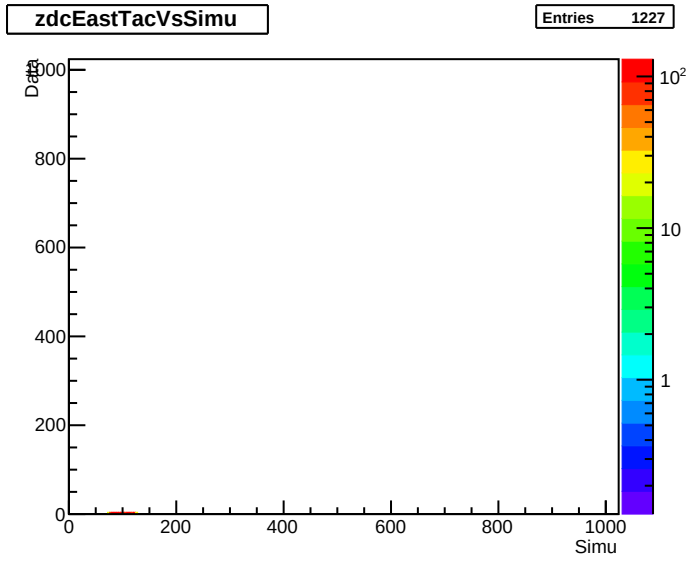

vpdWestAdcSum
Entries 261997

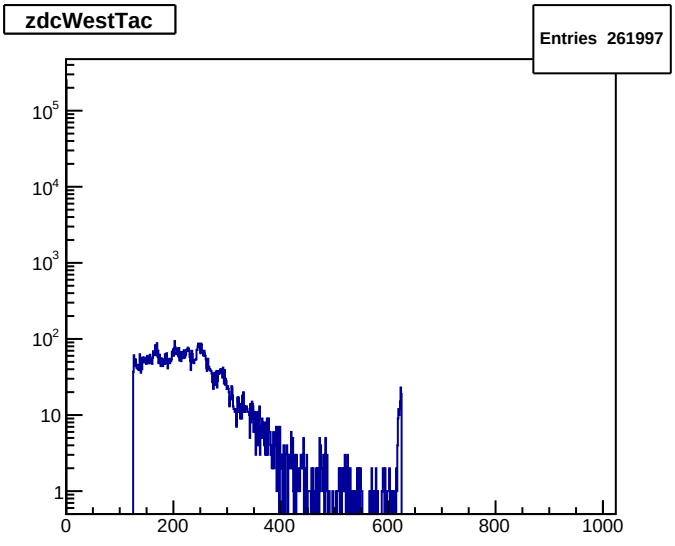

vpdWestAdcSumVsSimu
Entries 212759
Data
Simu

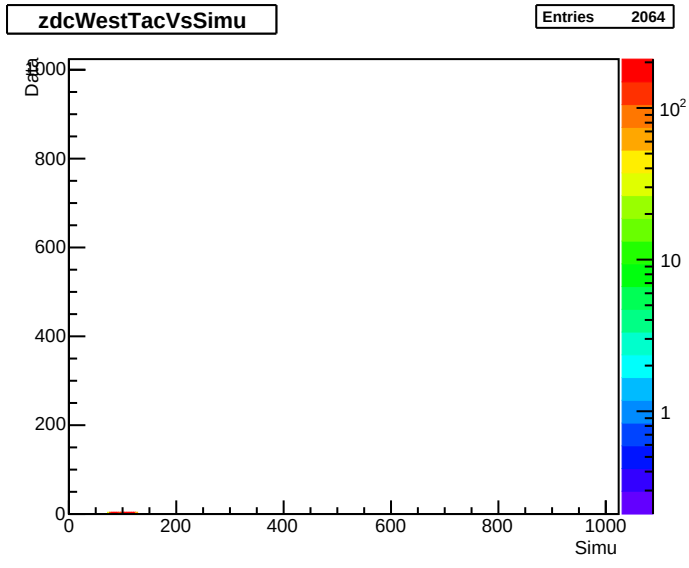

vpdWestTacMax
Entries 261997

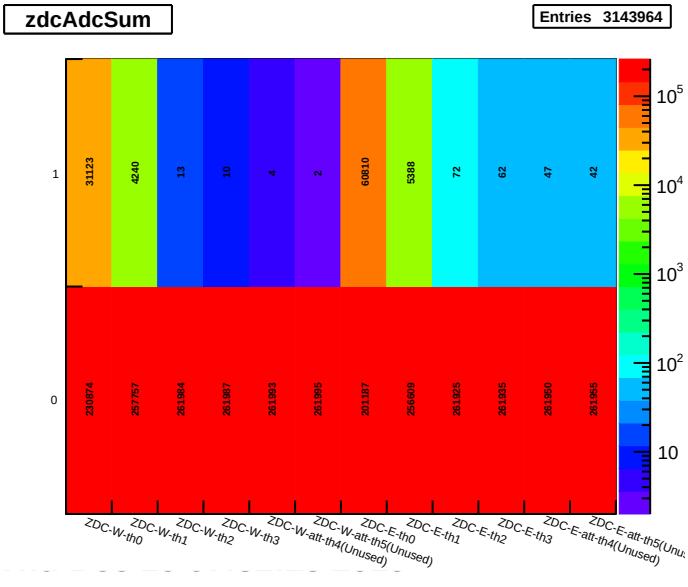

vpdWestTacMaxVsSimu
Entries 212759
Data
Simu

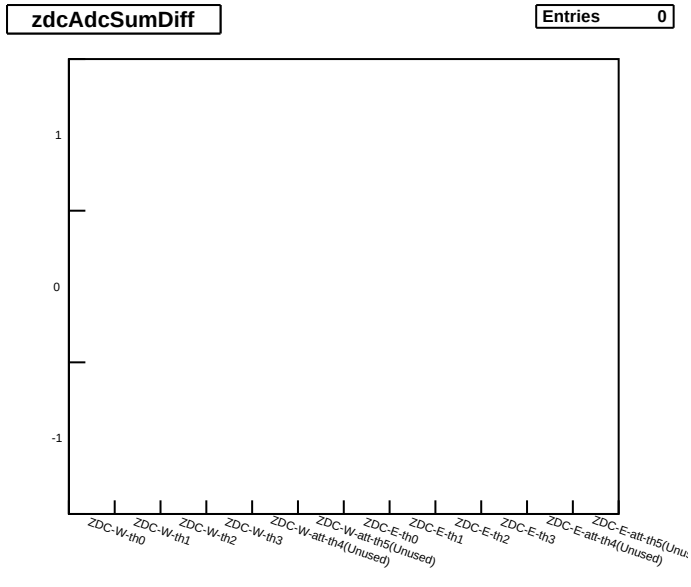

zdcEastTac
Entries 261997

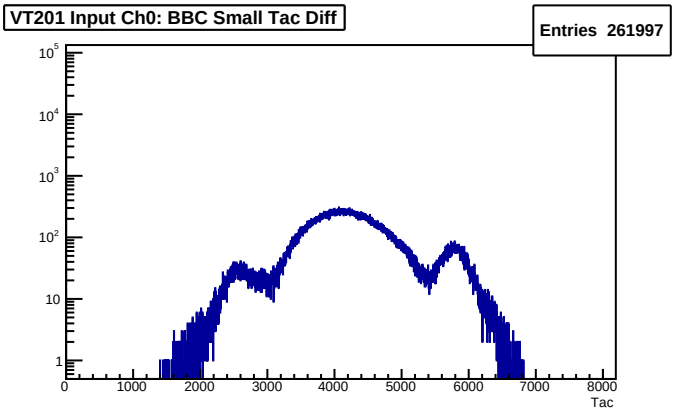

zdcEastTacVsSimu
Entries 1227
Data
Simu

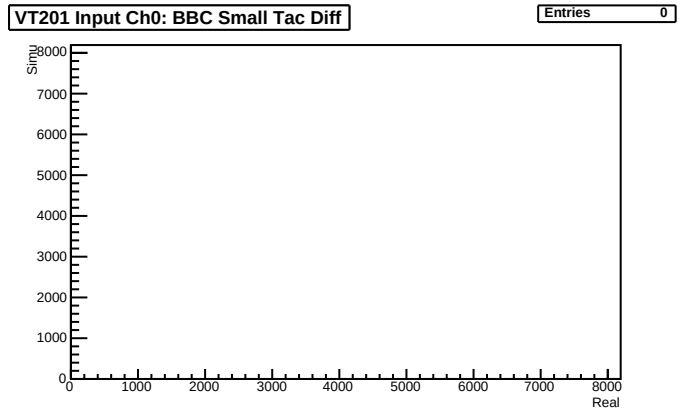

zdcWestTac
Entries 261997

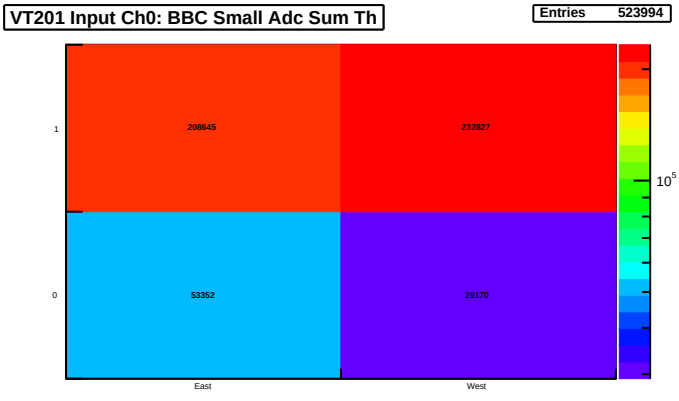

zdcWestTacVsSimu
Entries 2064
Data
Simu

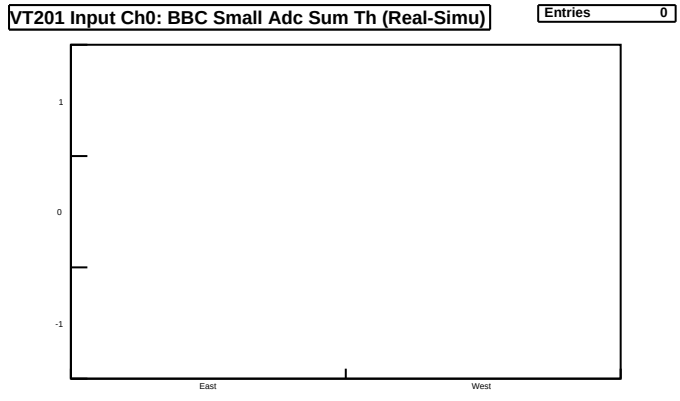

zdcAdcSum
Entries 3143964
31123
4240
13
10
4
2
60810
5388
72
62
47
42
230874
257757
261984
261987
261993
261995
201187
256609
261925
261935
261950
261955
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

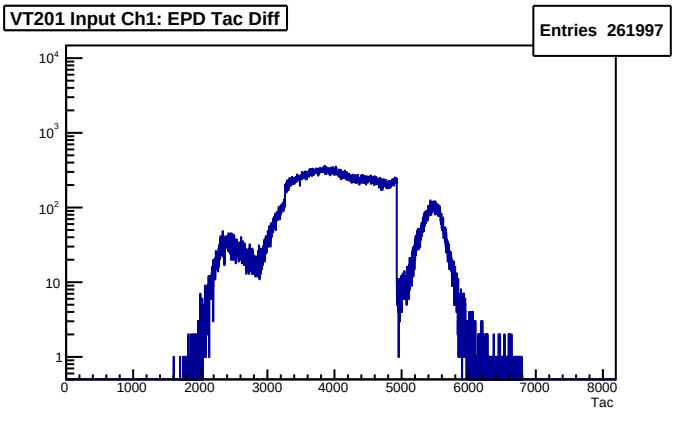

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

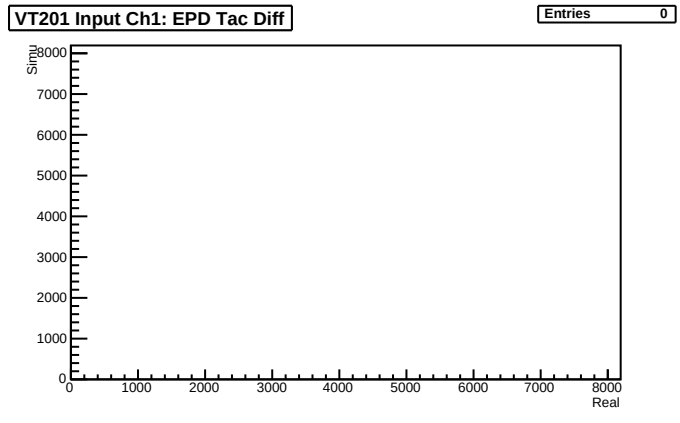

VT201 Input Ch0: BBC Small Tac Diff
Entries 261997
Tac

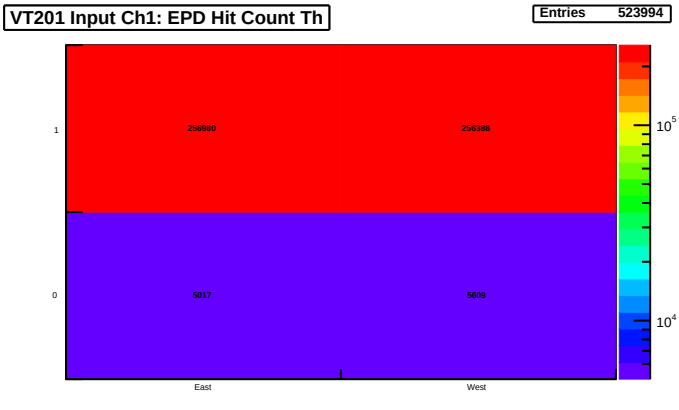

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

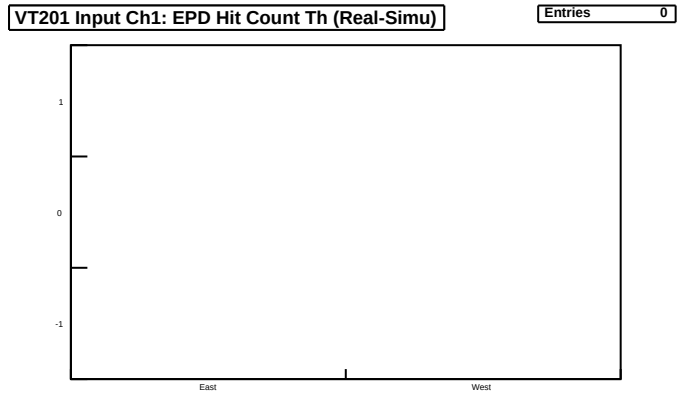

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 523994
208645
232827
53352
29170
East
West

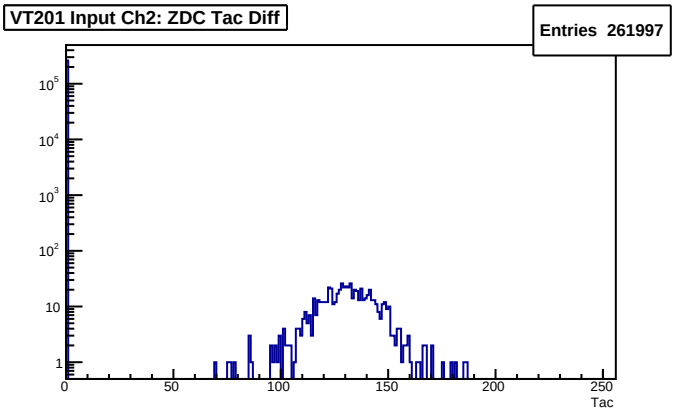

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

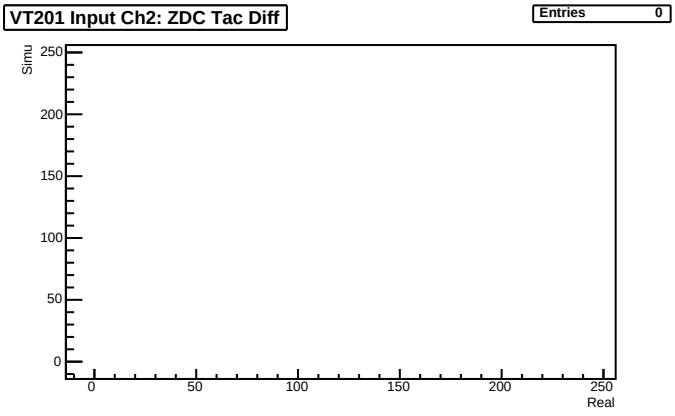

VT201 Input Ch1: EPD Tac Diff
Entries 261997
Tac

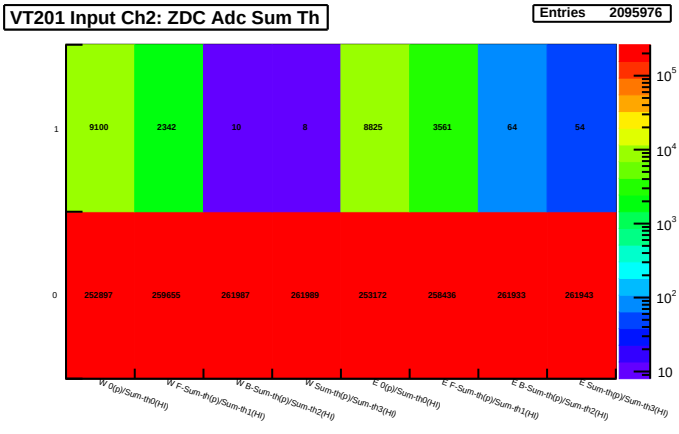

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

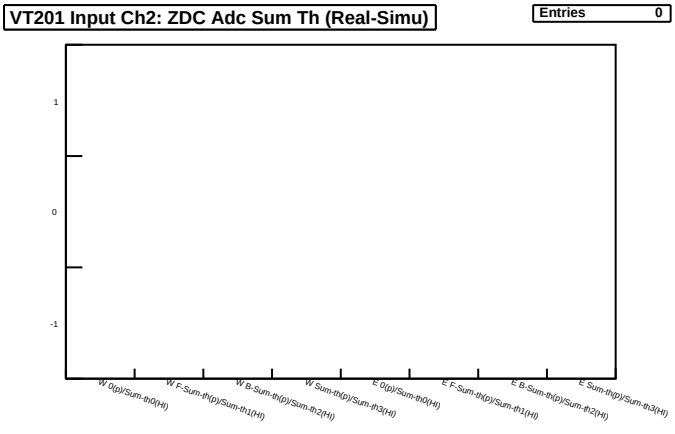

VT201 Input Ch1: EPD Hit Count Th
Entries 523994
256980
256388
5017
5609
East
West

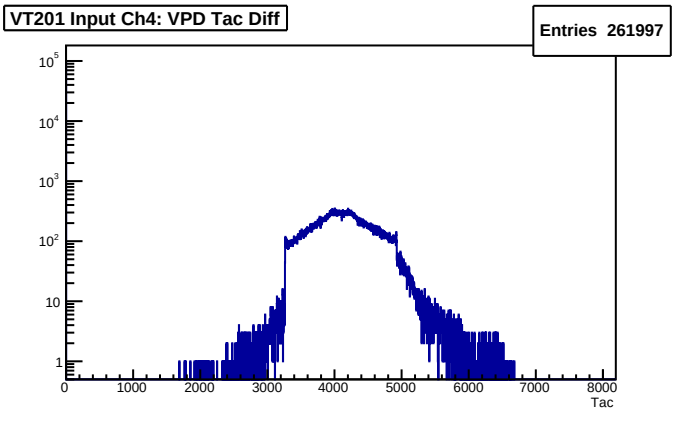

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

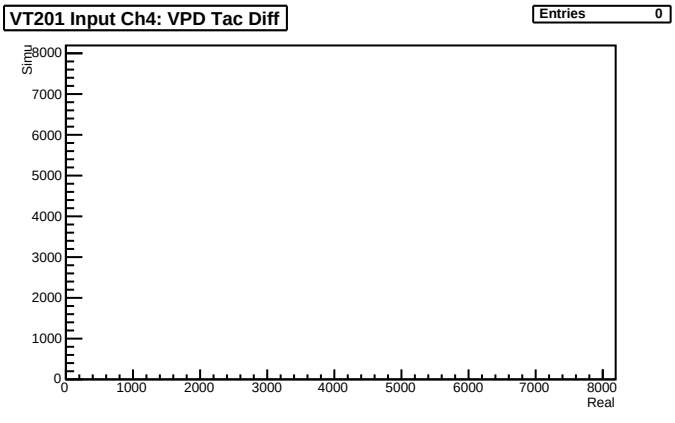

VT201 Input Ch2: ZDC Tac Diff
Entries 261997
Tac

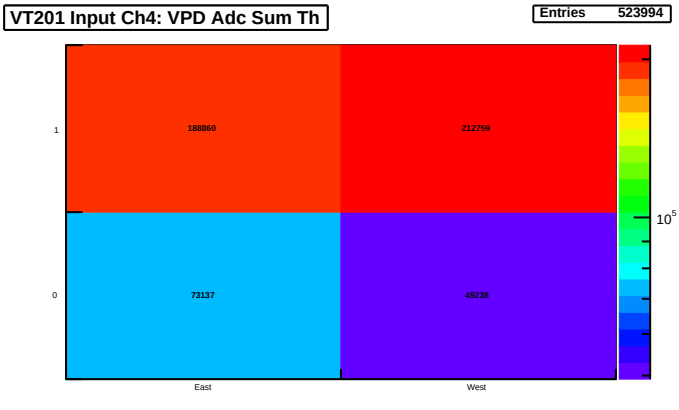

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

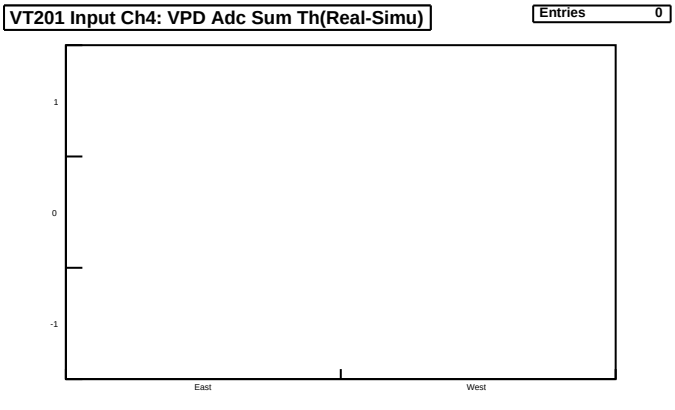

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2095976
9100
2342
10
8
8825
3561
64
54
252897
259655
261987
261989
253172
258436
261933
261943
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

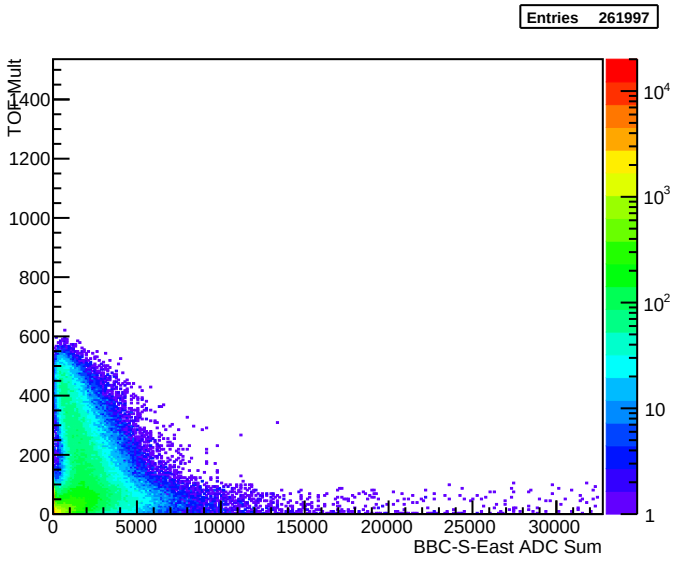

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

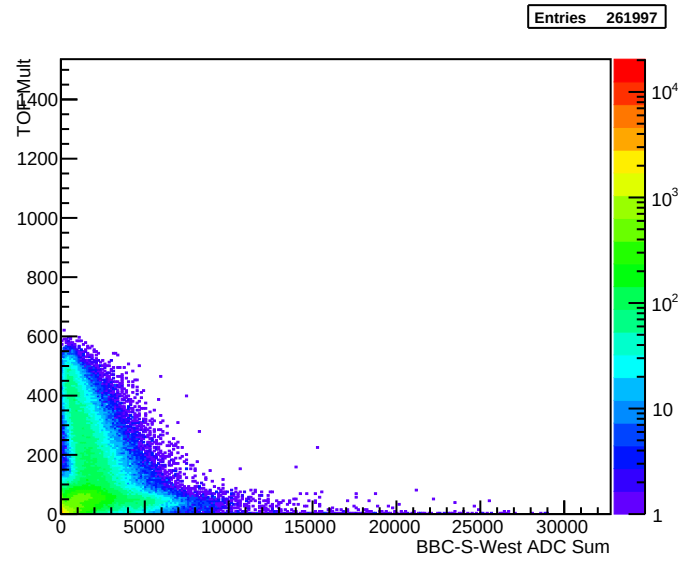

VT201 Input Ch4: VPD Tac Diff
Entries 261997
Tac

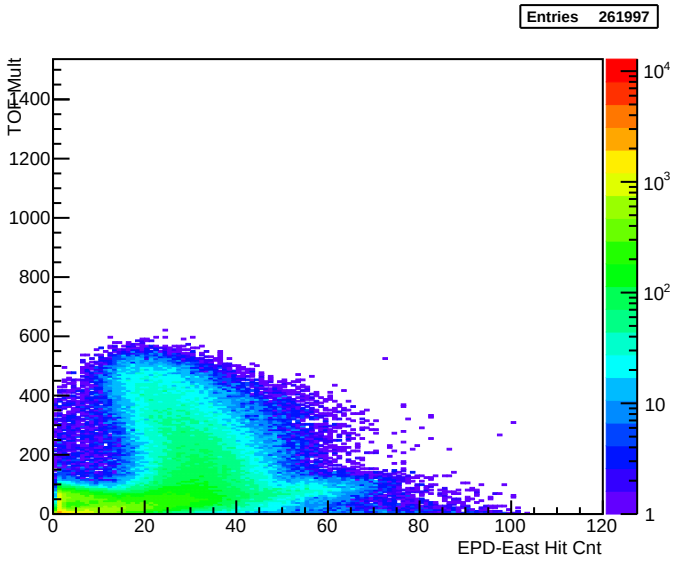

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

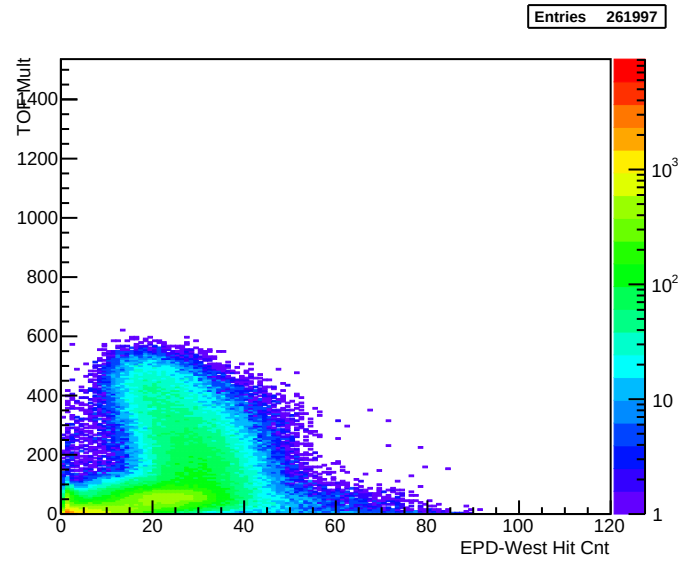

VT201 Input Ch4: VPD Adc Sum Th
Entries 523994
188860
212759
73137
49238
East
West

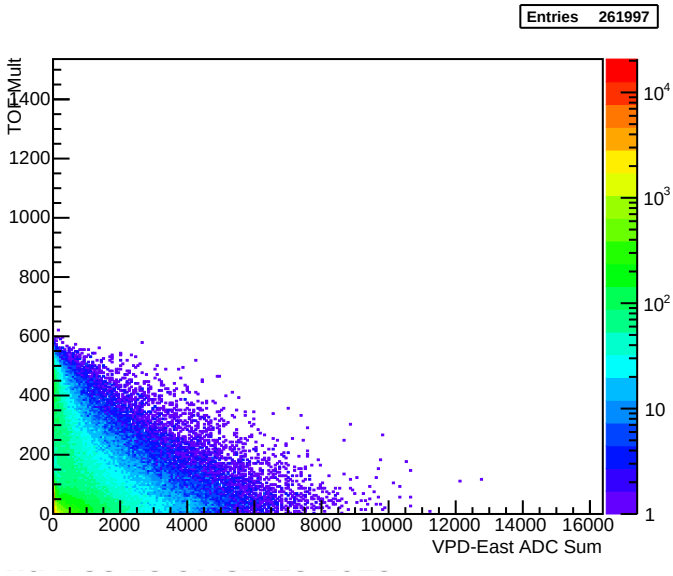

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

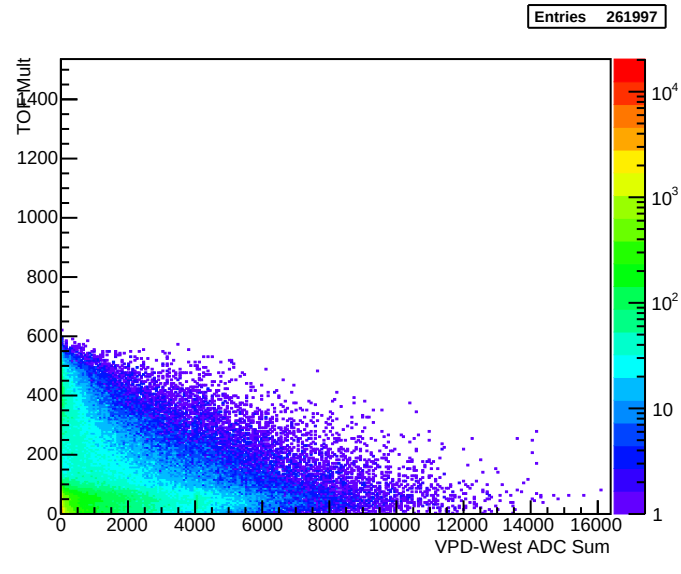

Entries 261997
TOF-Mult
BBC-S-East ADC Sum

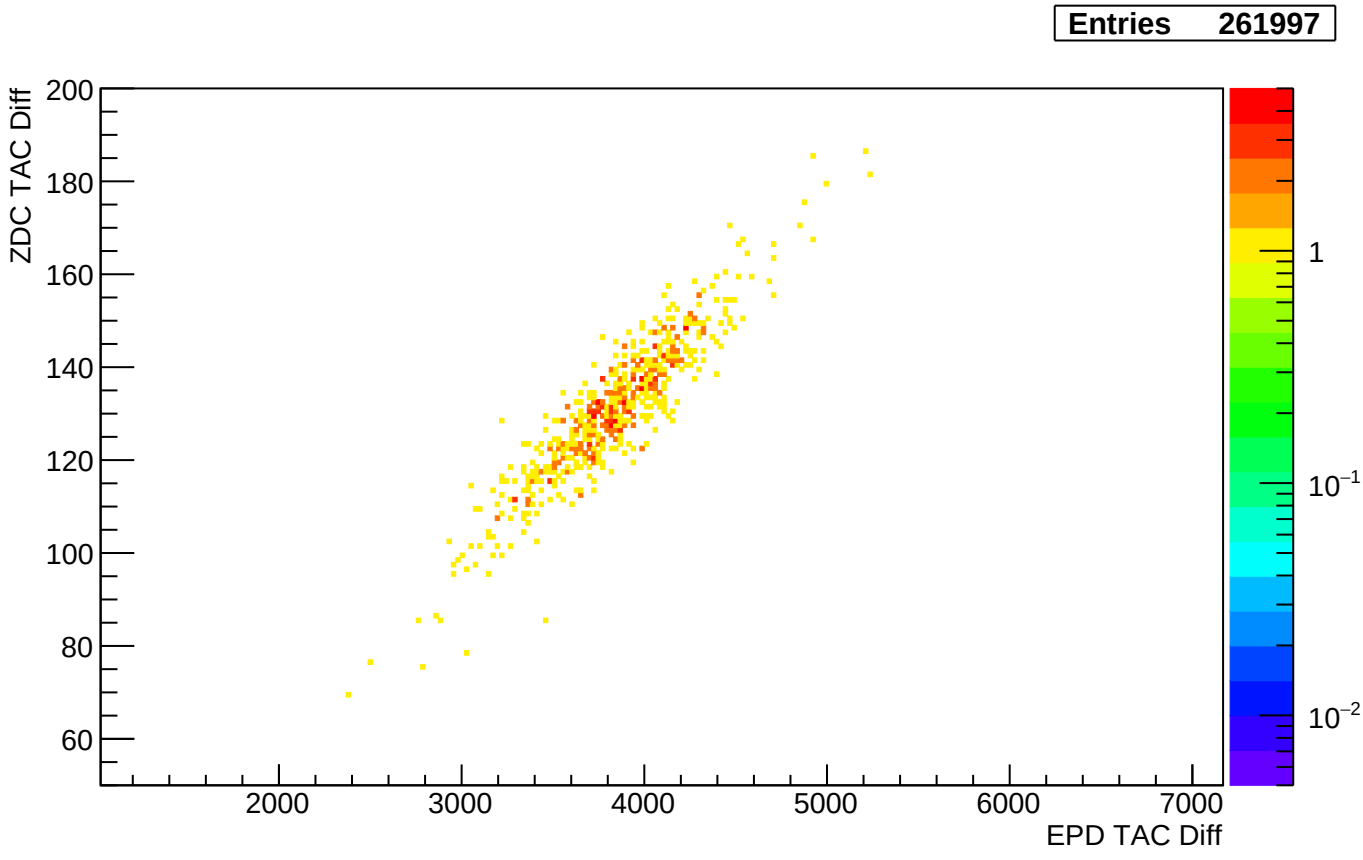

Entries 261997
TOF-Mult
BBC-S-West ADC Sum

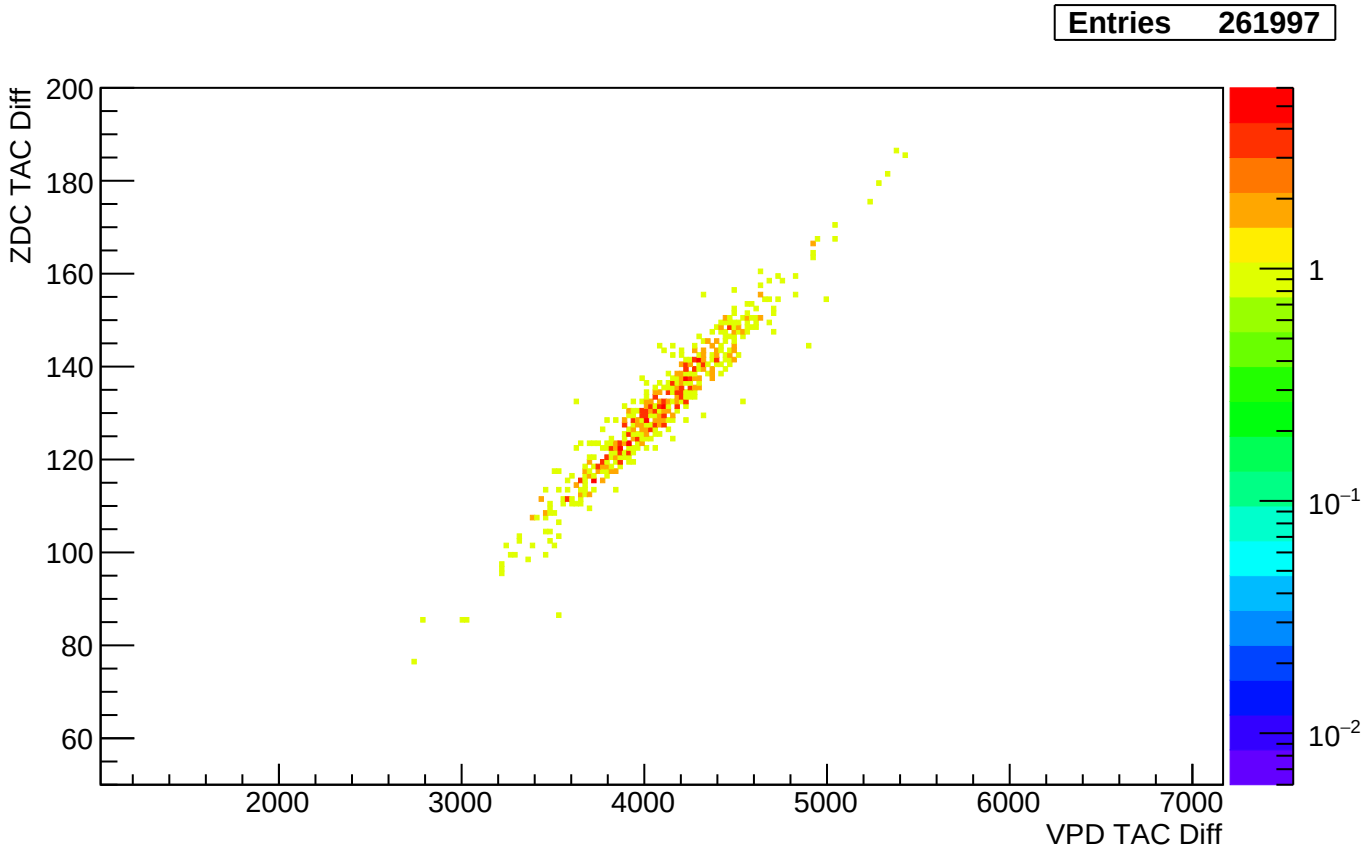

Entries 261997
TOF-Mult
EPD-East Hit Cnt

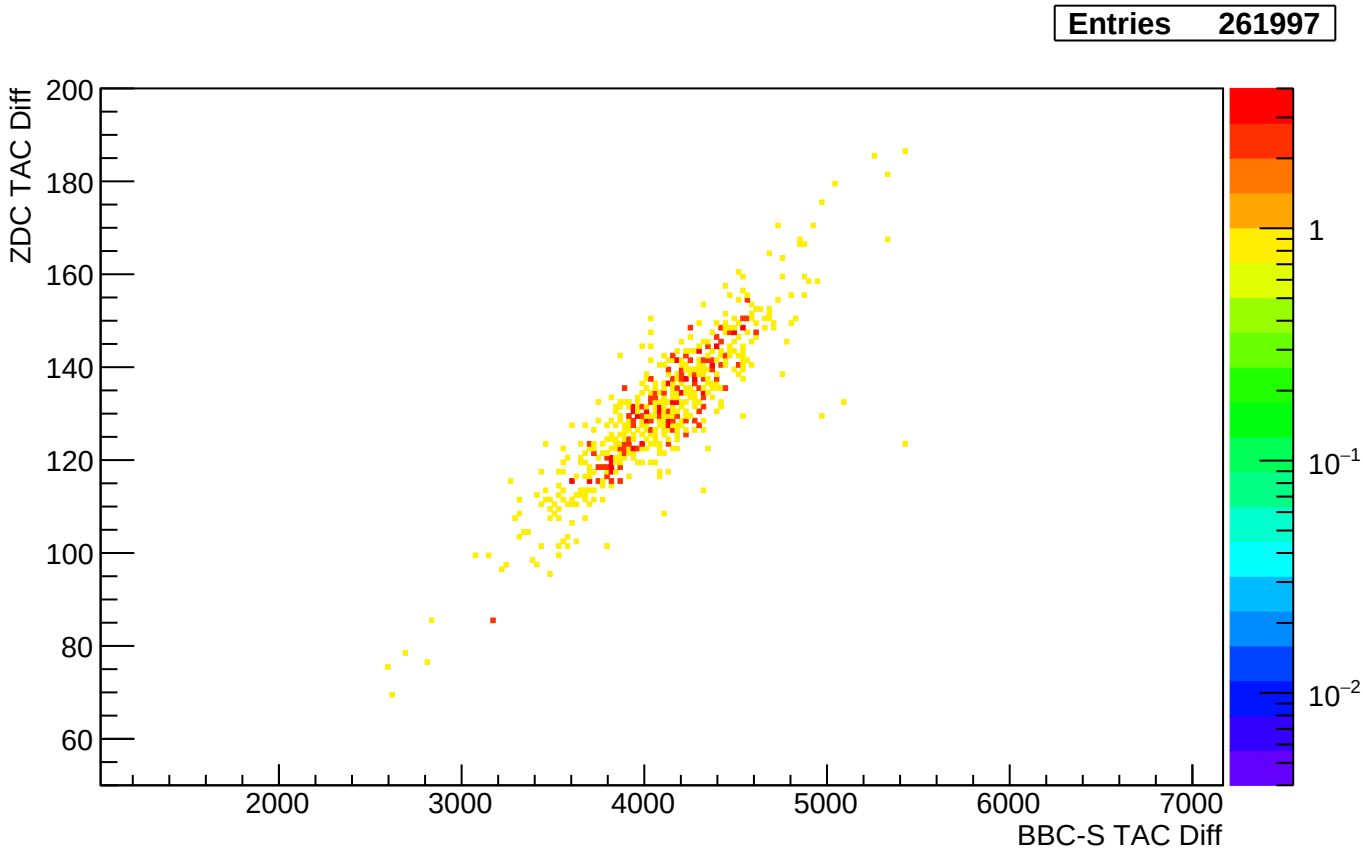

Entries 261997
TOF-Mult
EPD-West Hit Cnt

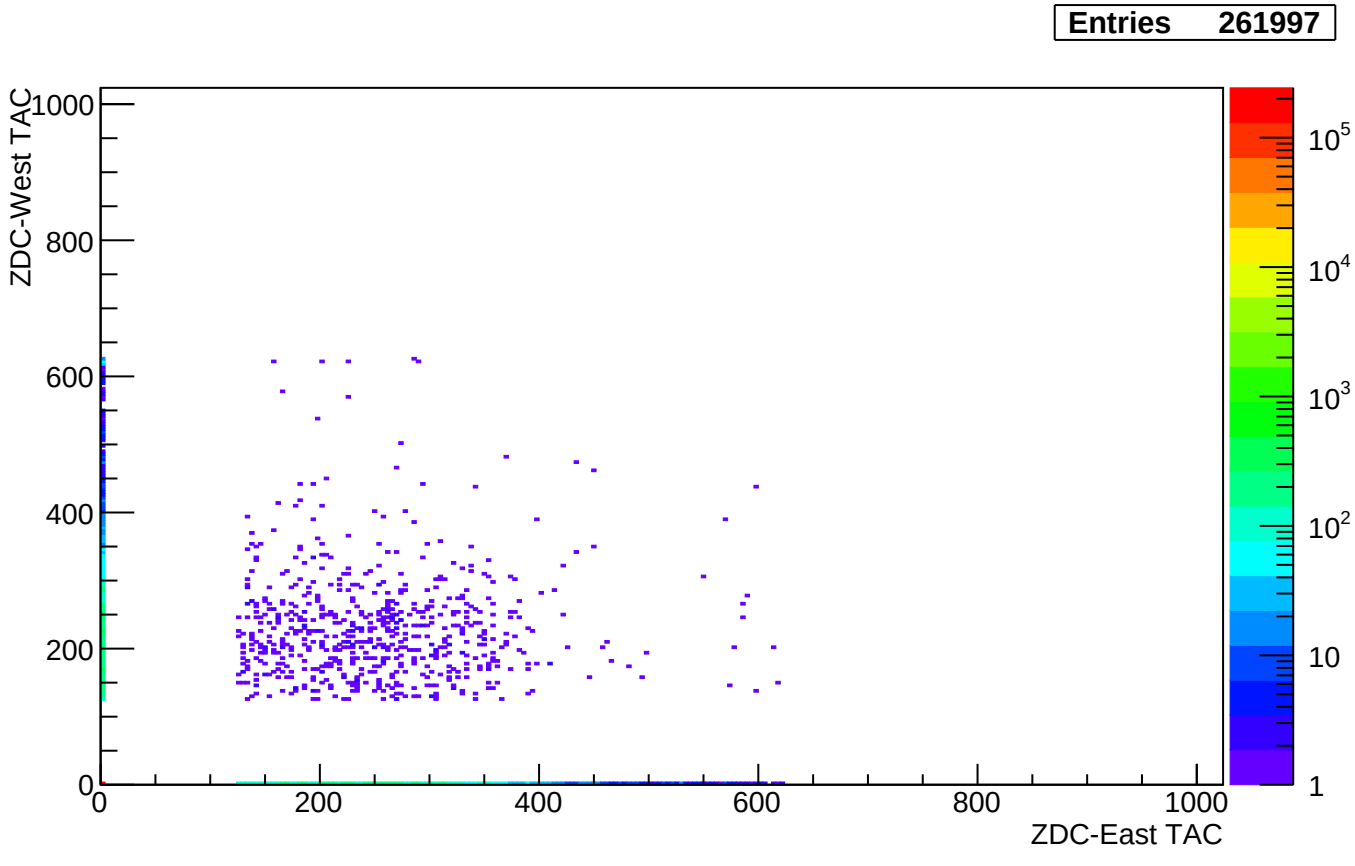

Entries 261997
TOF-Mult
VPD-East ADC Sum

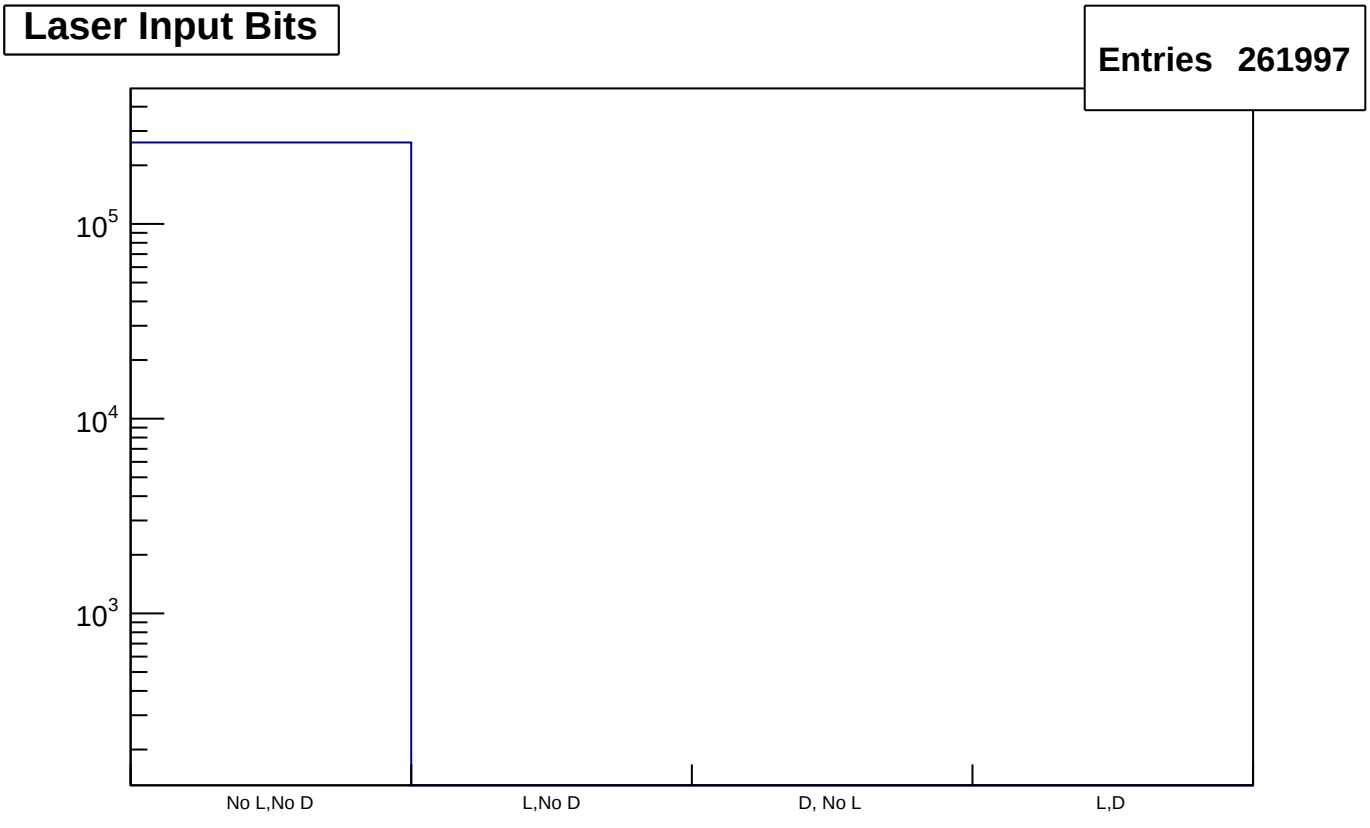

Entries 261997
TOF-Mult
VPD-West ADC Sum

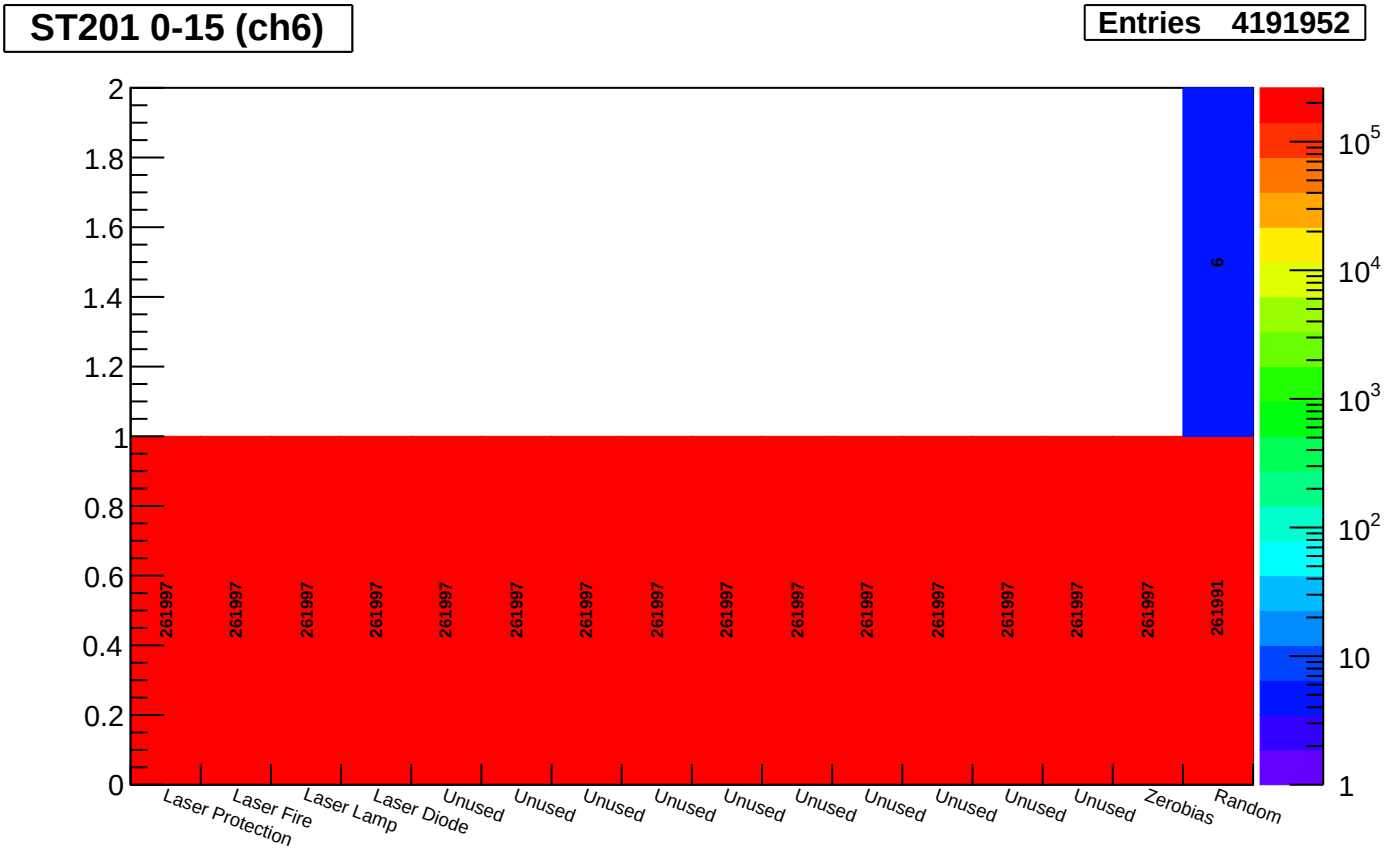

Entries 261997
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

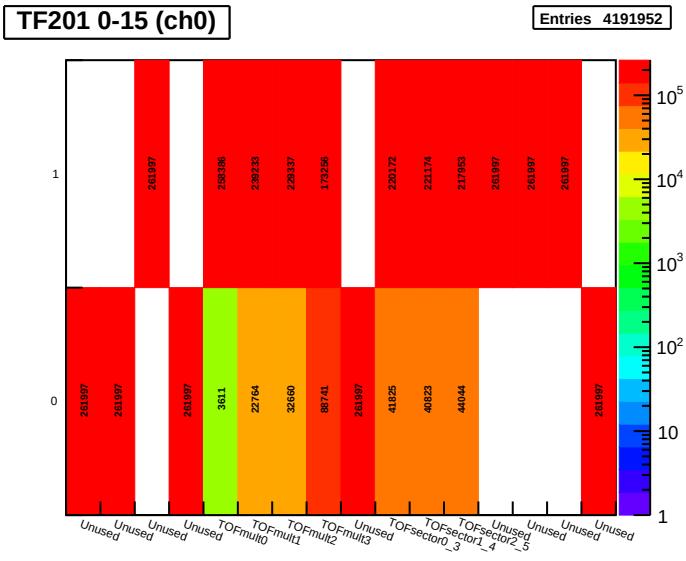

Entries 261997
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

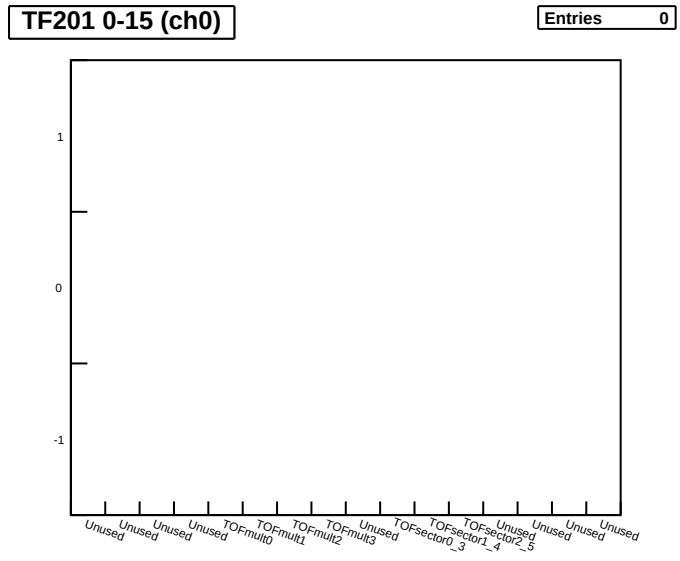

Entries 261997
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

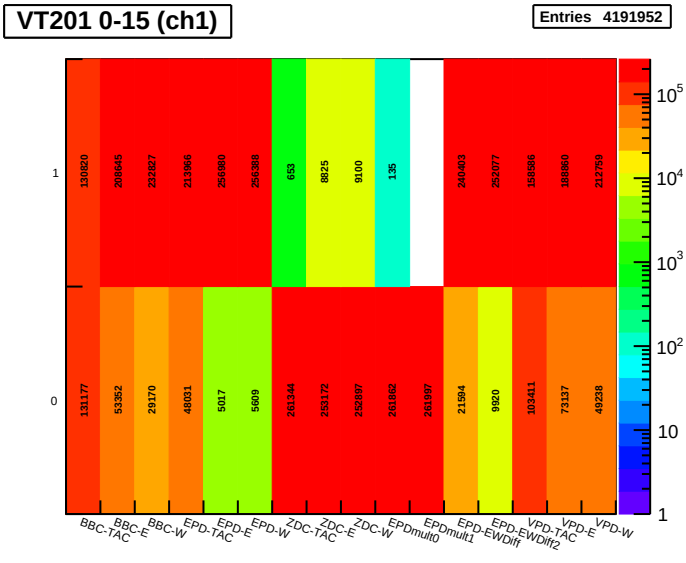

Entries 261997
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

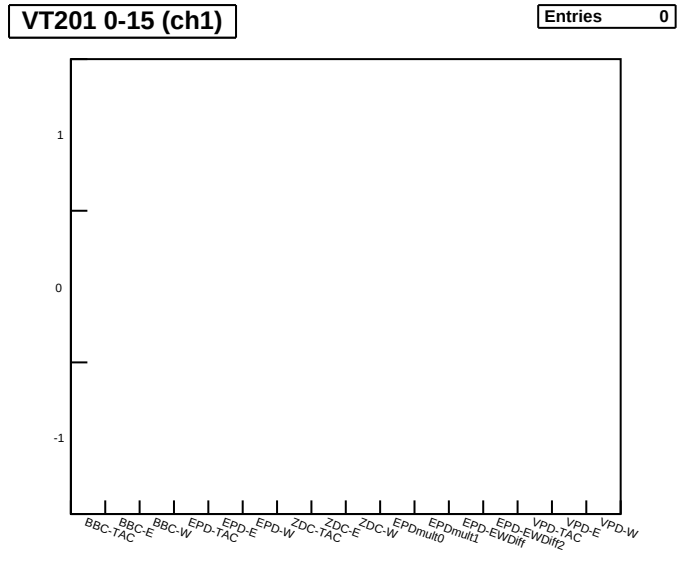

Laser Input Bits
Entries 261997
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

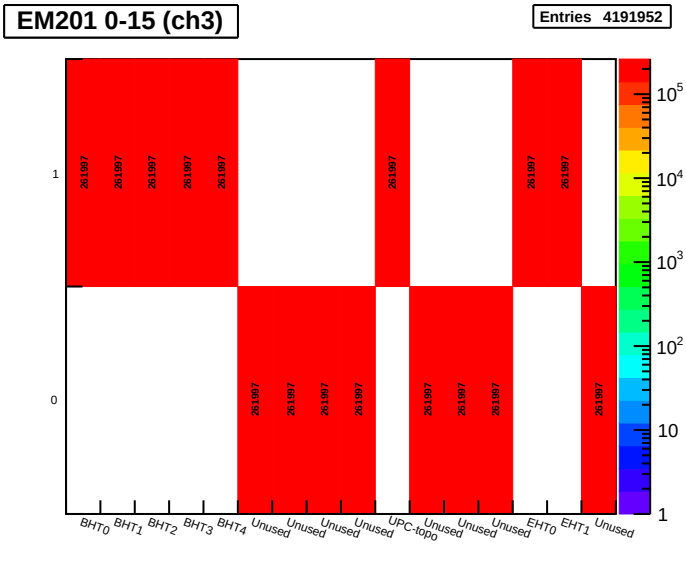

ST201 0-15 (ch6)
Entries 4191952
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
261997
261991
6
10^5
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

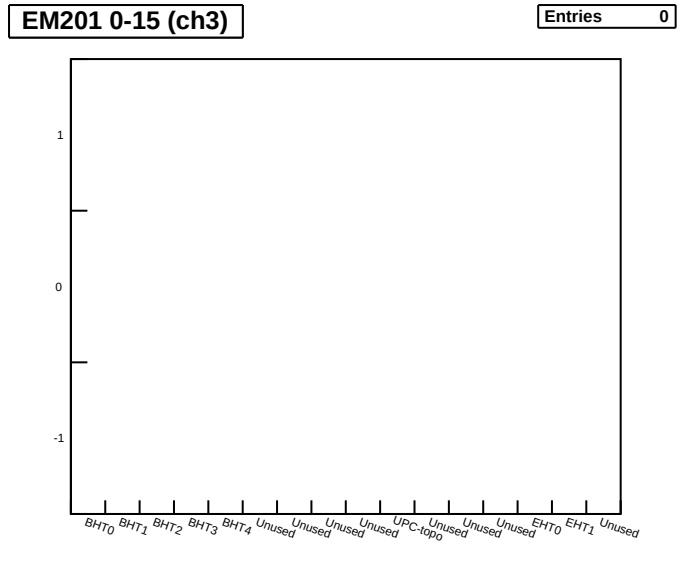

TF201 0-15 (ch0)
Entries 4191952
261997 258386 239233 229337 173256 220172 221174 217953 261997 261997 261997
261997 261997 261997 3611 22764 32660 89741 261997 41825 40823 44044 261997
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
1
0
10^5 10^4 10^3 10^2 10 1


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


VT201 0-15 (ch1)
Entries 4191952
130820 208645 232827 213966 256980 256388 653 8825 9100 135 240403 252077 158586 188860 212759
131177 53352 29170 48031 5017 5609 261344 253172 252897 261862 261997 21594 9920 103411 73137 49238
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
1
0
10^5 10^4 10^3 10^2 10 1


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
1
0
-1


EM201 0-15 (ch3)
Entries 4191952
261997 261997 261997 261997 261997 261997 261997 261997
261997 261997 261997 261997 261997 261997 261997 261997
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
1
0
10^5 10^4 10^3 10^2 10 1


EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
1
0
-1