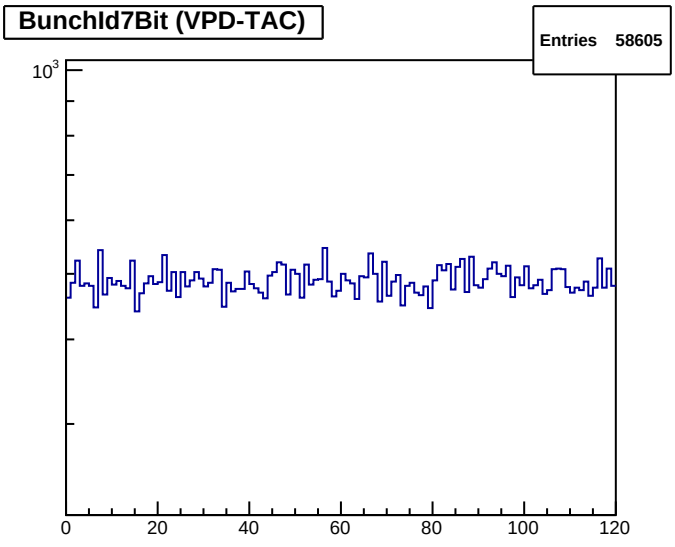
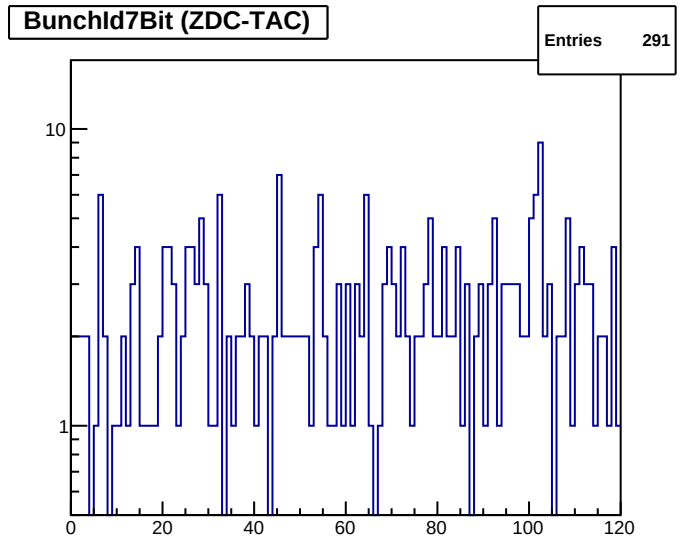
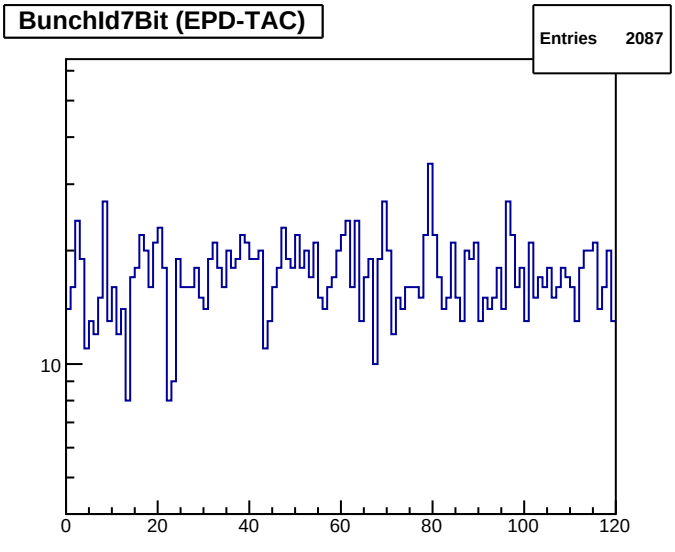
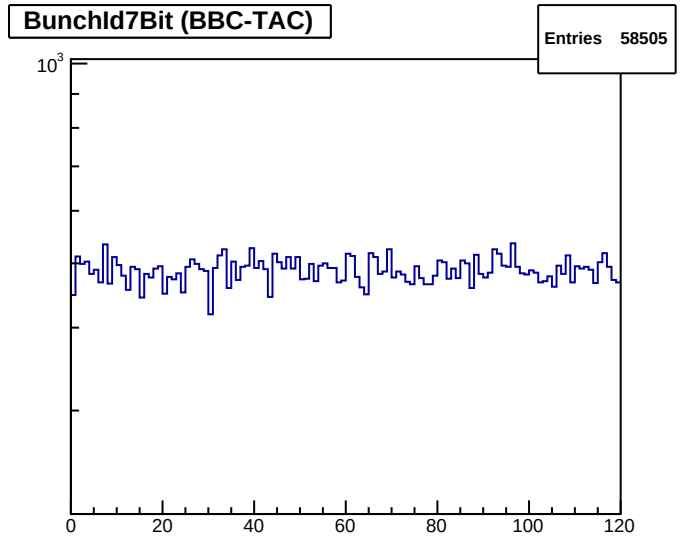
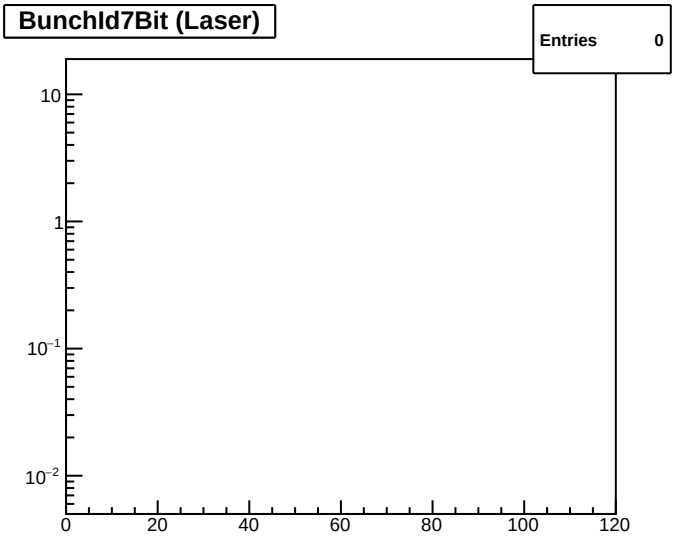
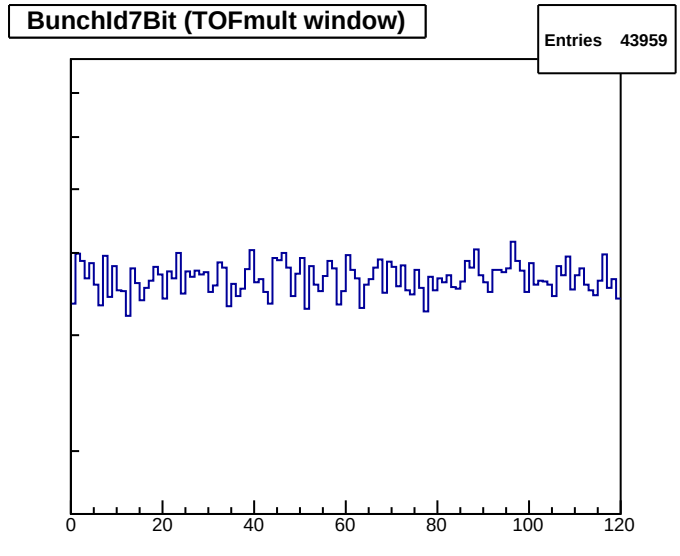

BunchId7Bit (VPD-TAC)
Entries 58605
10^3
0 20 40 60 80 100 120

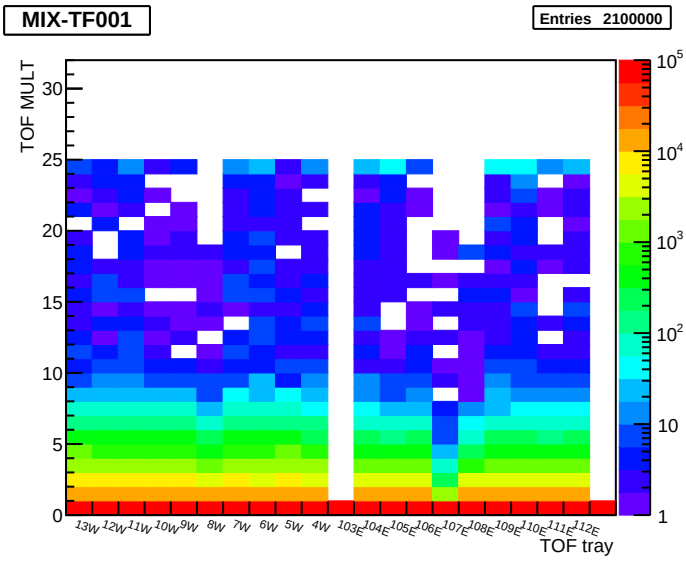

BunchId7Bit (ZDC-TAC)
Entries 291
10
1
0 20 40 60 80 100 120

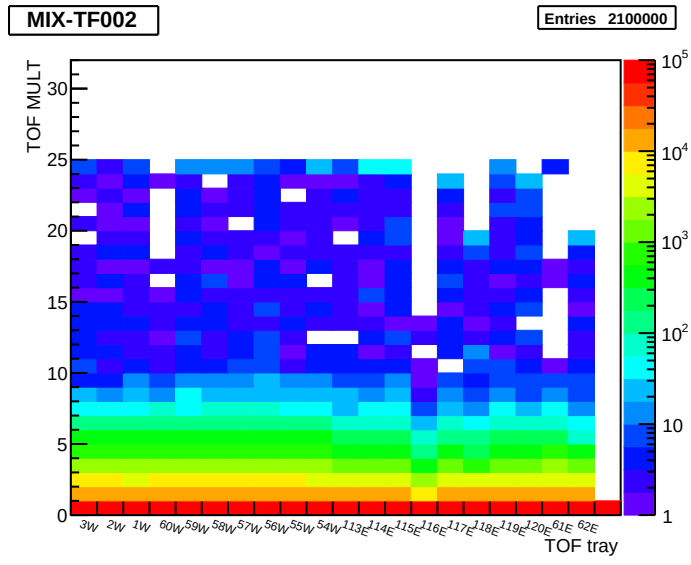

BunchId7Bit (EPD-TAC)
Entries 2087
10
0 20 40 60 80 100 120

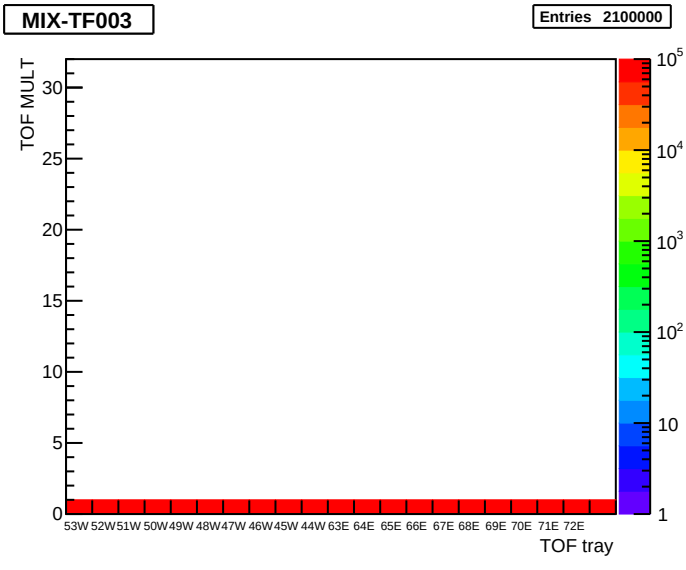

BunchId7Bit (BBC-TAC)
Entries 58505
10^3
0 20 40 60 80 100 120

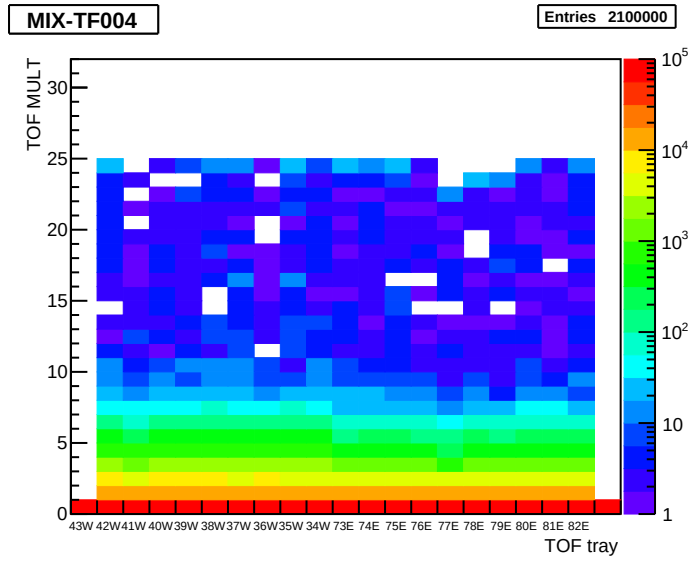

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

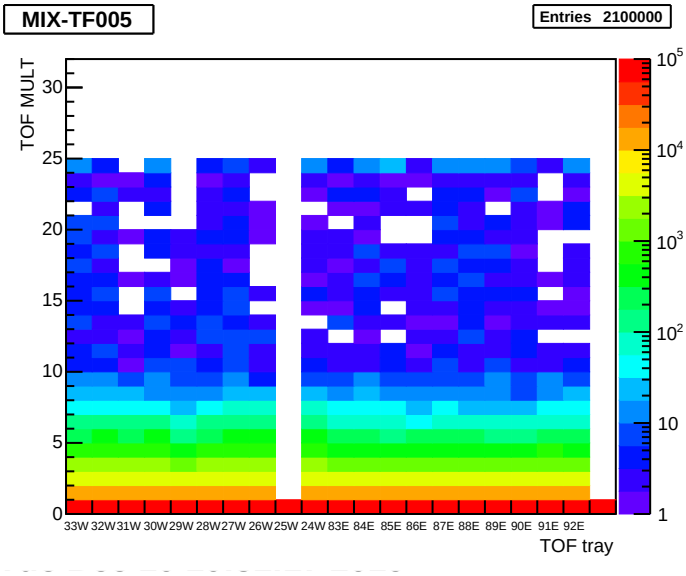

BunchId7Bit (TOFmult window)
Entries 43959
0 20 40 60 80 100 120

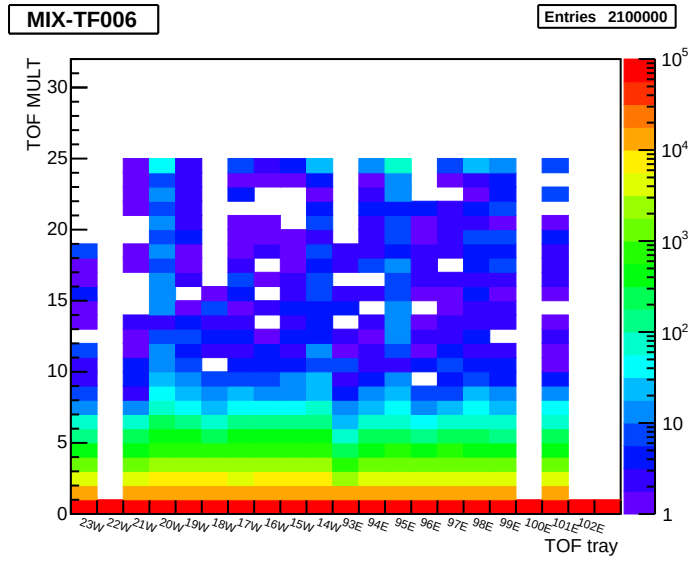

MIX-TF001
Entries 2100000
TOF MULT
TOF tray

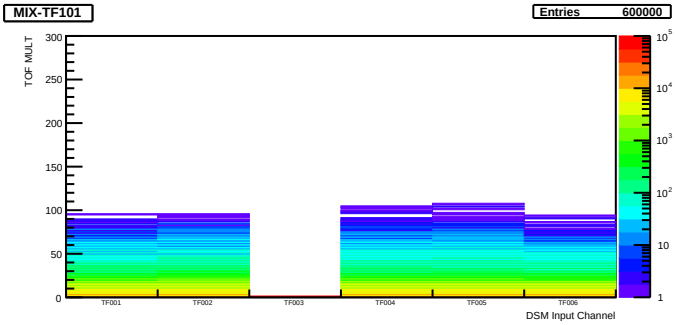

MIX-TF002
Entries 2100000
TOF MULT
TOF tray

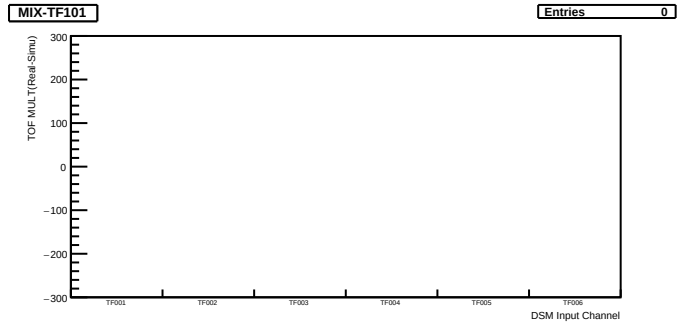

MIX-TF003
Entries 2100000
TOF MULT
TOF tray

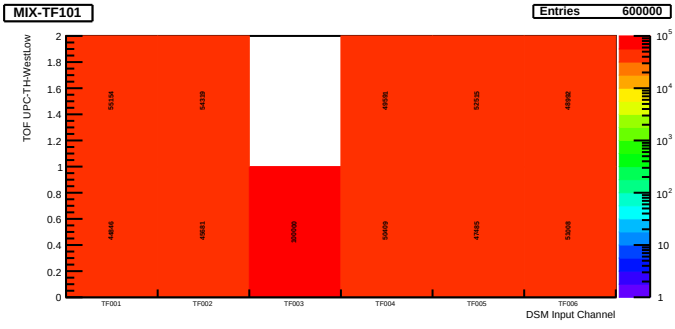

MIX-TF004
Entries 2100000
TOF MULT
TOF tray

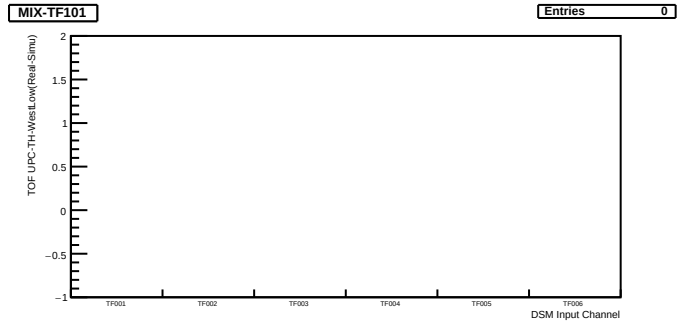

MIX-TF005
Entries 2100000
TOF MULT
TOF tray

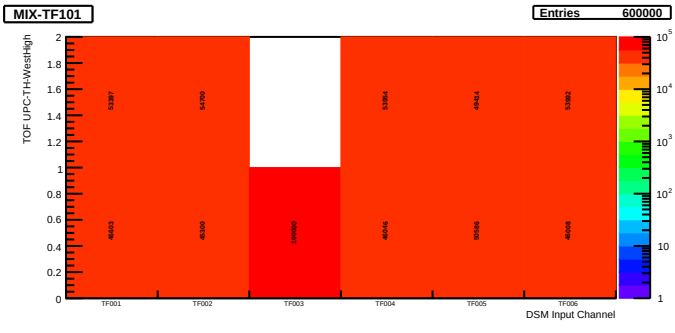

MIX-TF006
Entries 2100000
TOF MULT
TOF tray

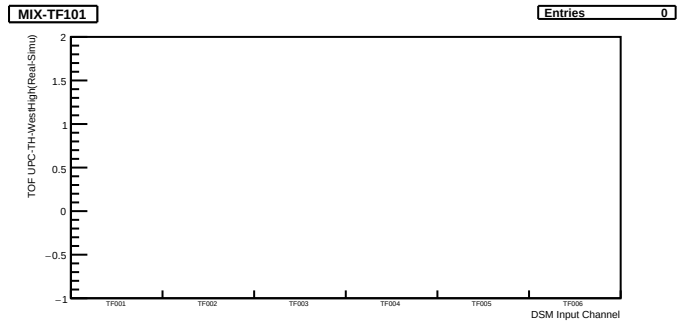

MIX-TF101
Entries 600000
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

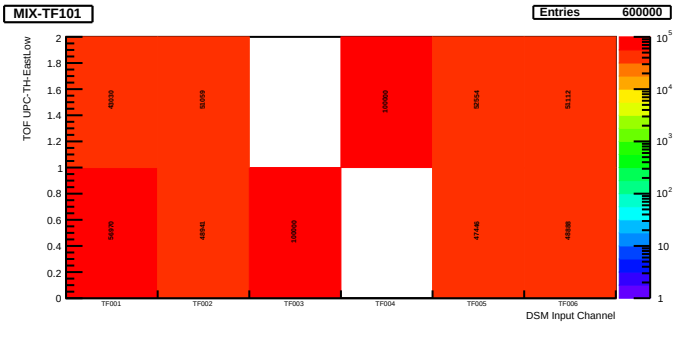

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

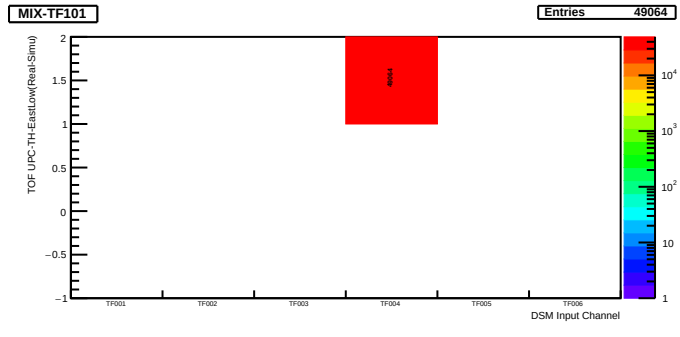

MIX-TF101
Entries 600000
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

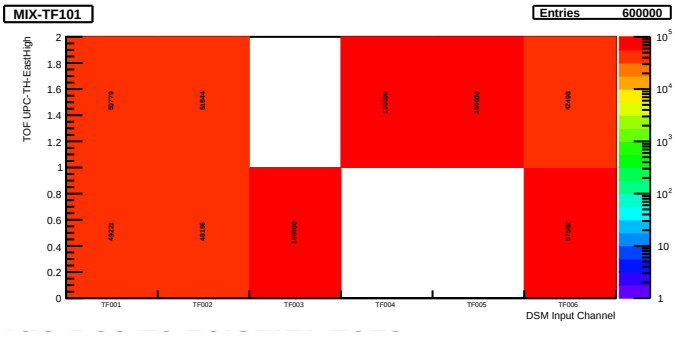

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

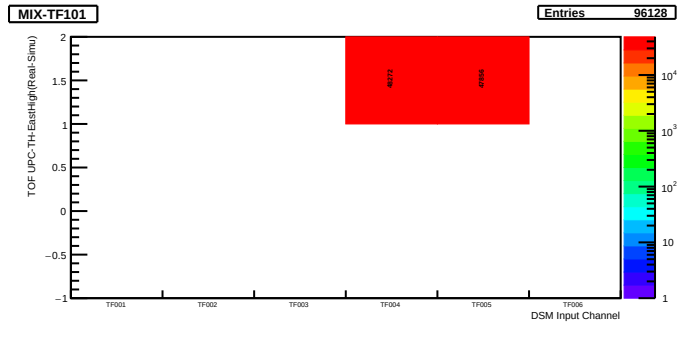

MIX-TF101
Entries 600000
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

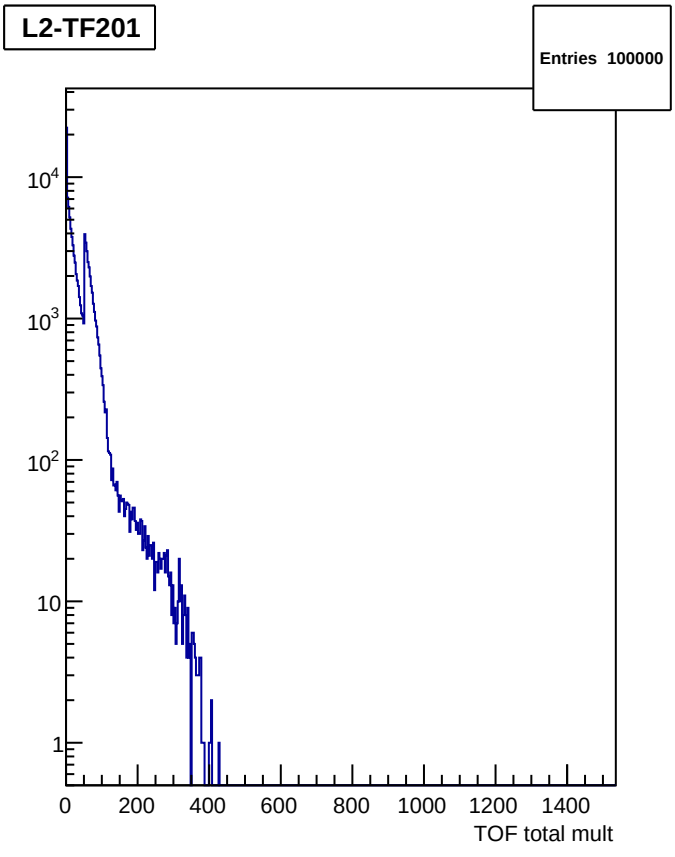

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

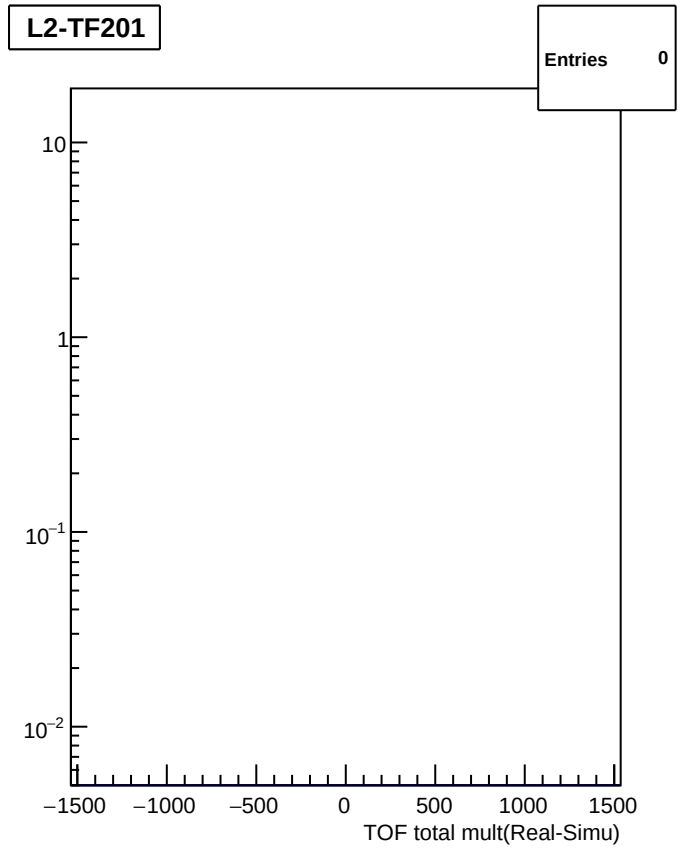

MIX-TF101
Entries 600000
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

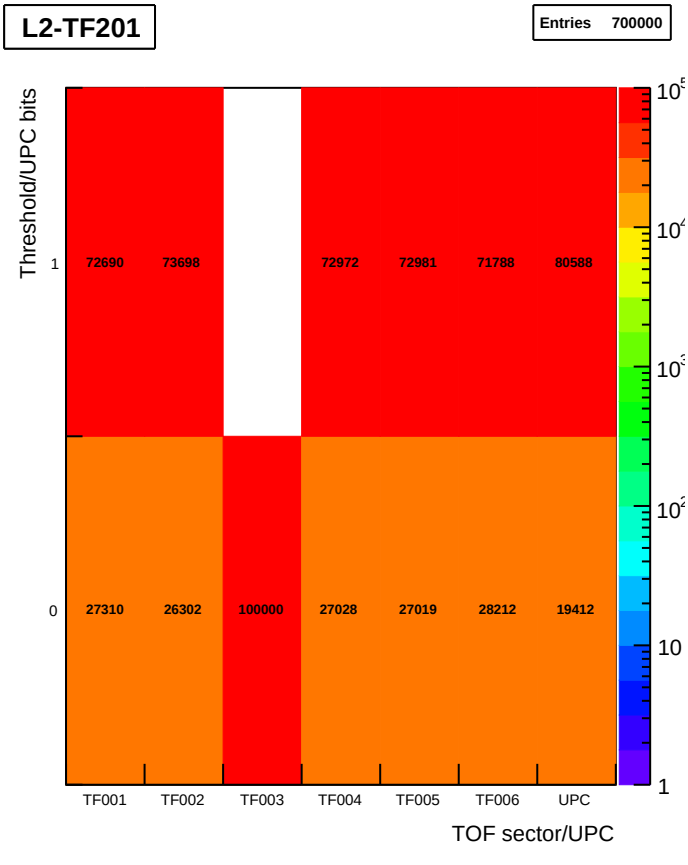

MIX-TF101
Entries 49064
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

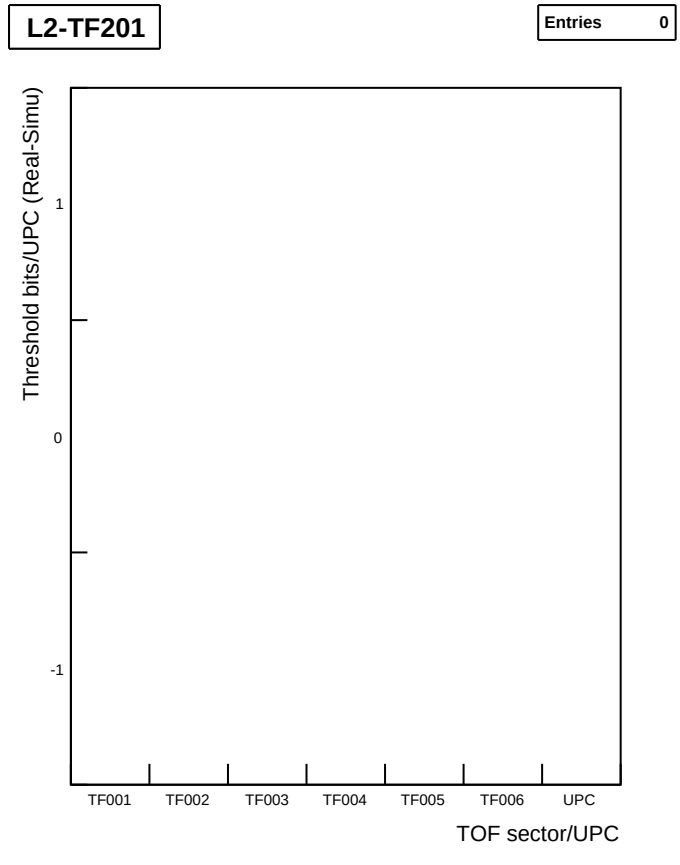

MIX-TF101
Entries 600000
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

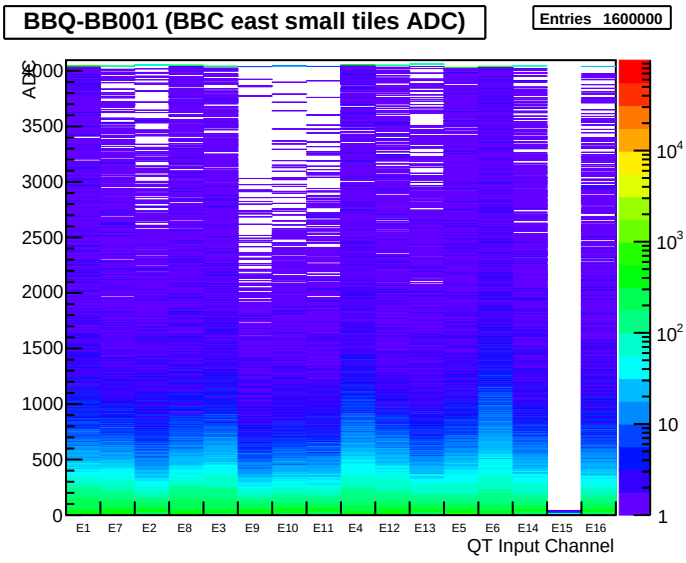

MIX-TF101
Entries 96128
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

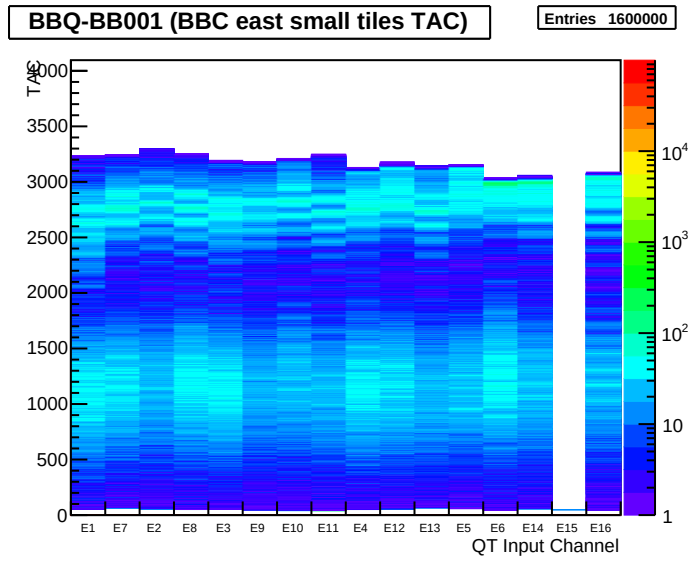

L2-TF201
Entries 100000
TOF total mult

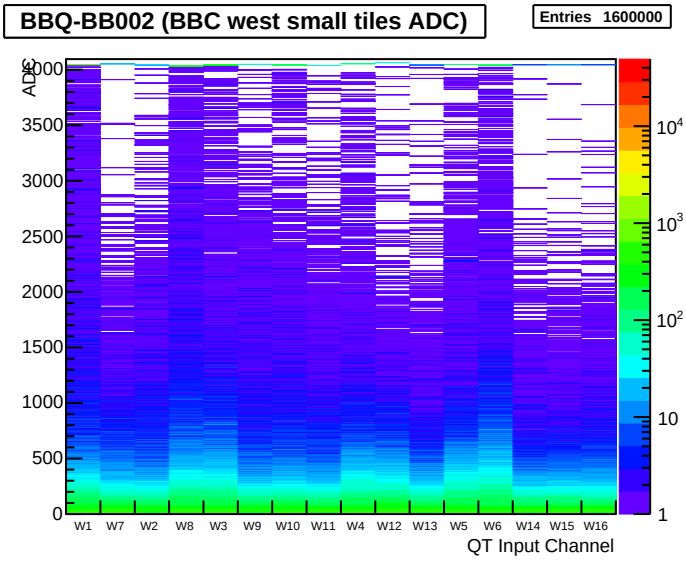

L2-TF201
Entries 0
TOF total mult(Real-Simu)

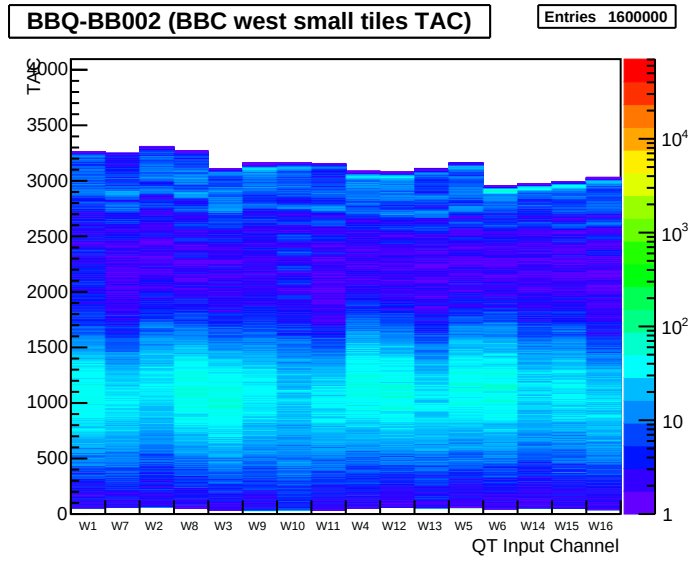

L2-TF201
Entries 700000
Threshold/UPC bits
72690
73698
72972
72981
71788
80588
27310
26302
100000
27028
27019
28212
19412
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

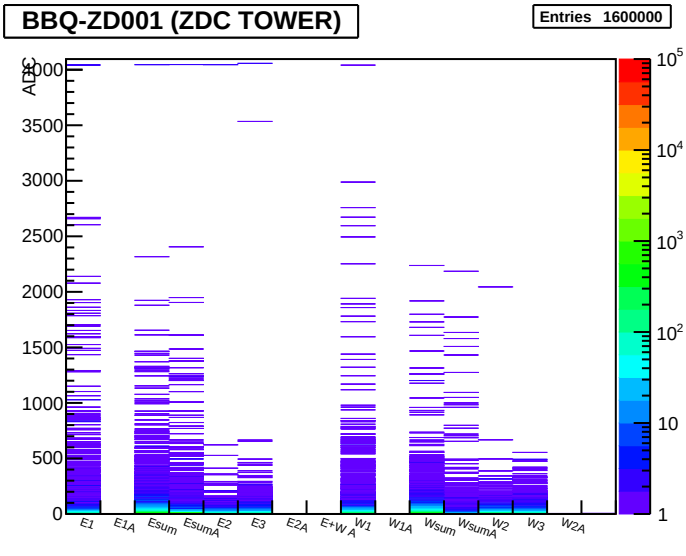

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

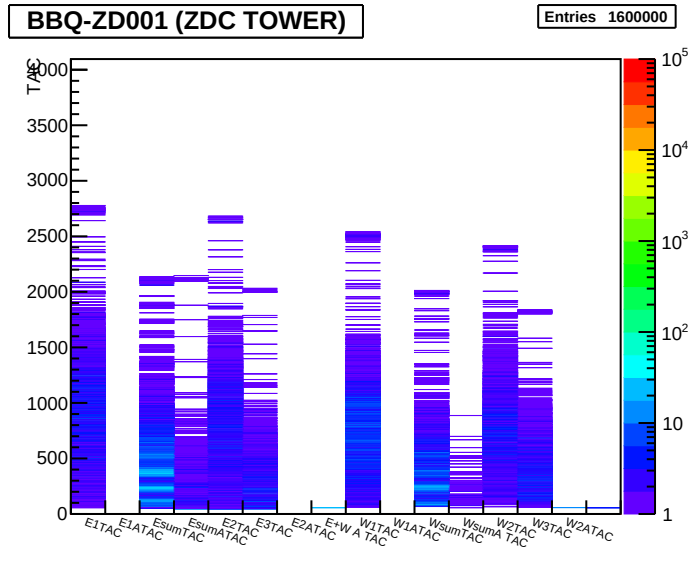

BBQ-BB001 (BBC east small tiles ADC)
Entries 1600000
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

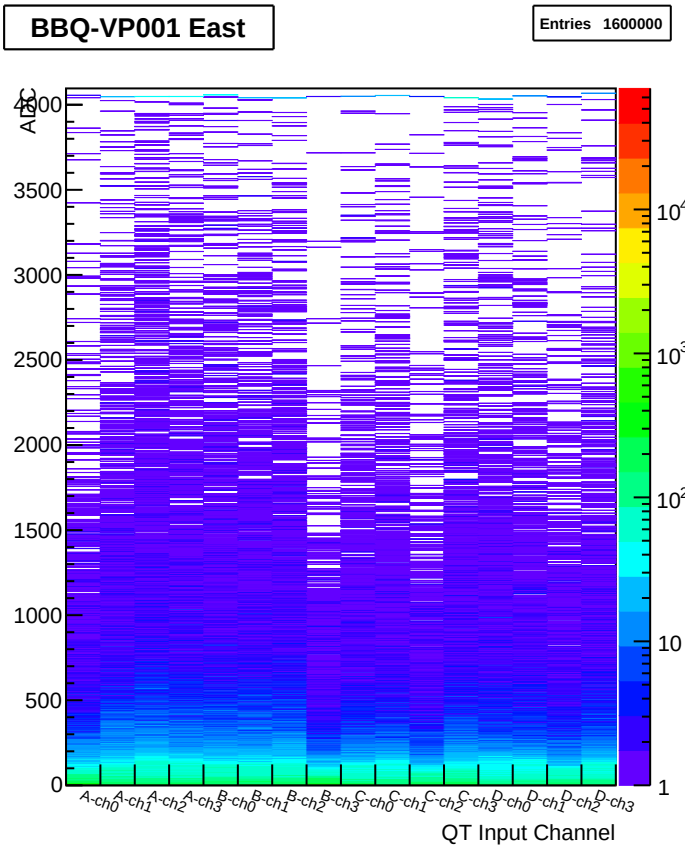

BBQ-BB001 (BBC east small tiles TAC)
Entries 1600000
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

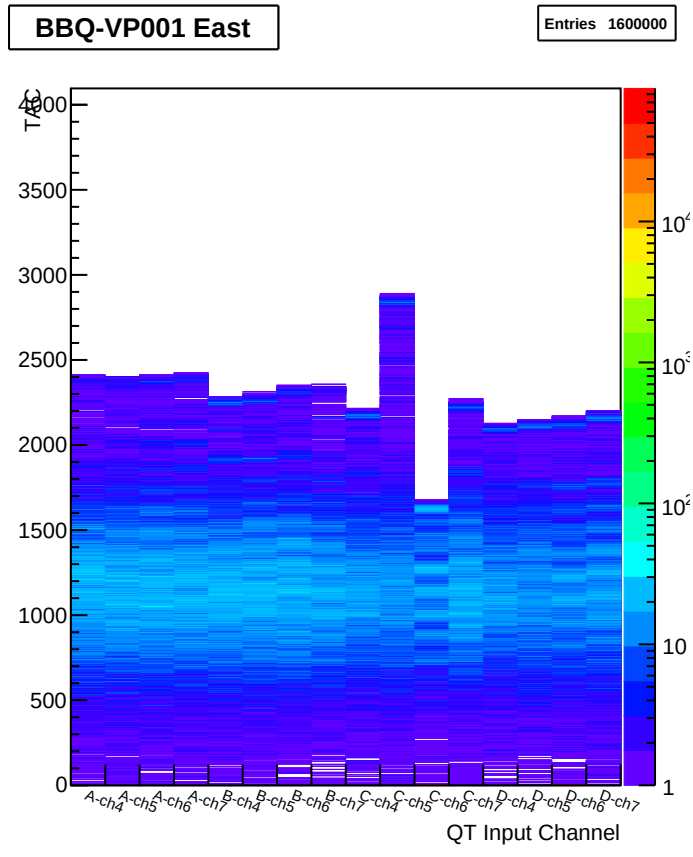

BBQ-BB002 (BBC west small tiles ADC)
Entries 1600000
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

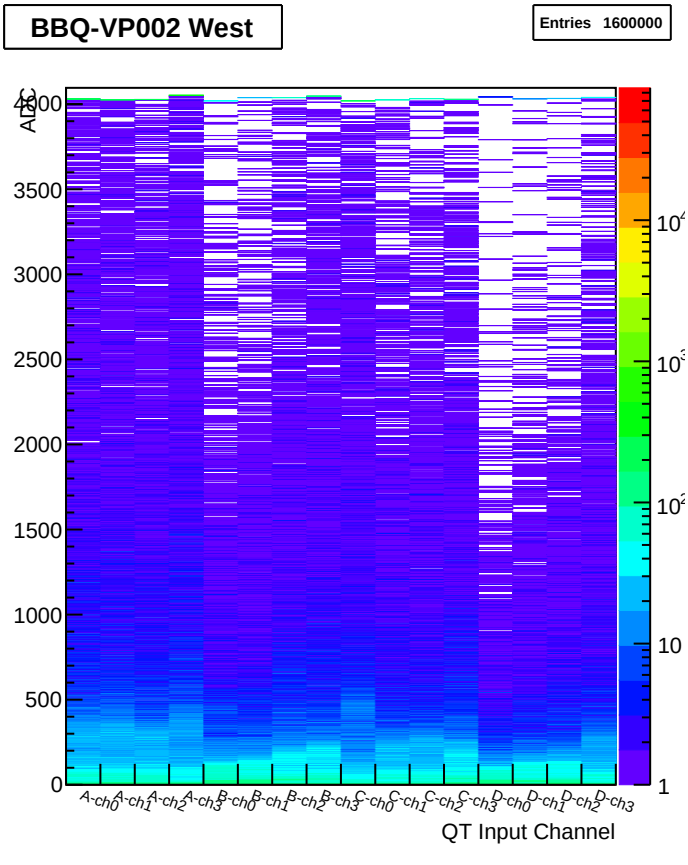

BBQ-BB002 (BBC west small tiles TAC)
Entries 1600000
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

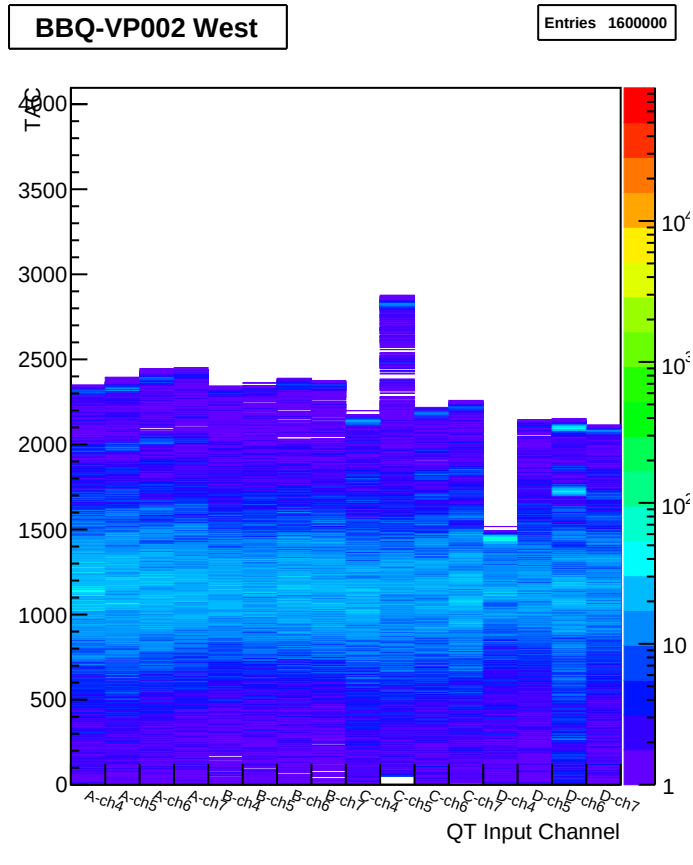

BBQ-ZD001 (ZDC TOWER)
Entries 1600000
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

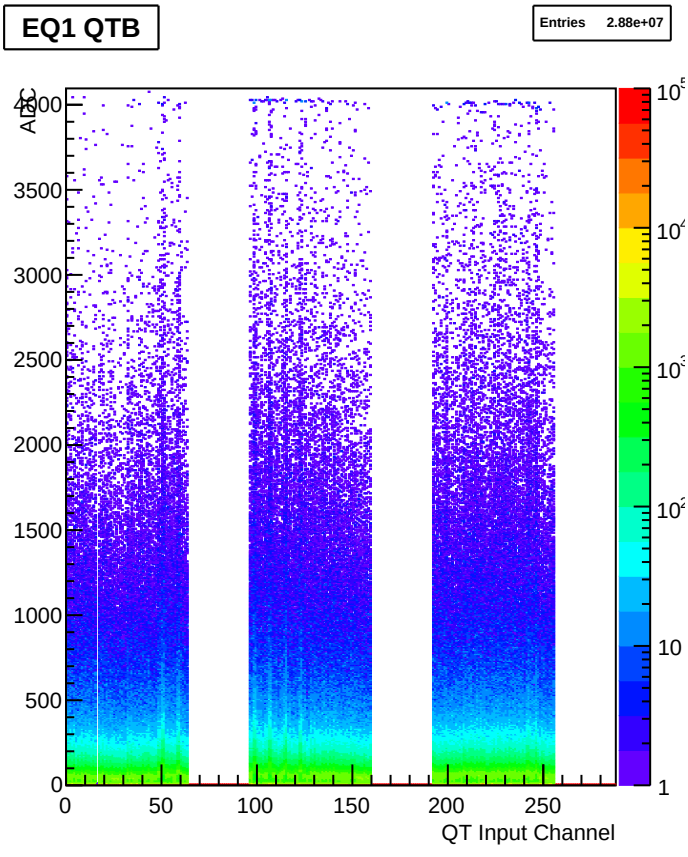

BBQ-ZD001 (ZDC TOWER)
Entries 1600000
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

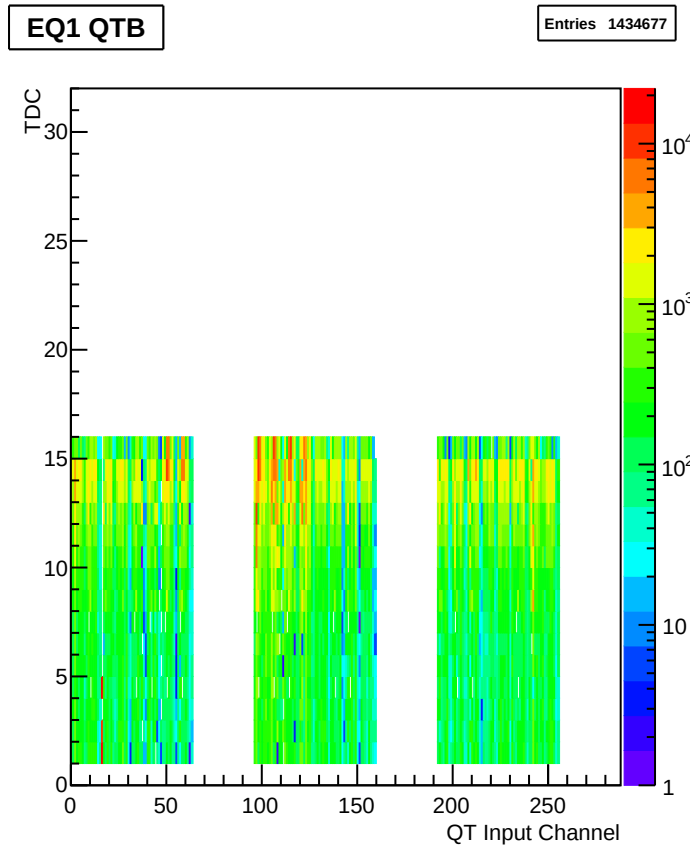

BBQ-VP001 East
Entries 1600000
ADC
QT Input Channel

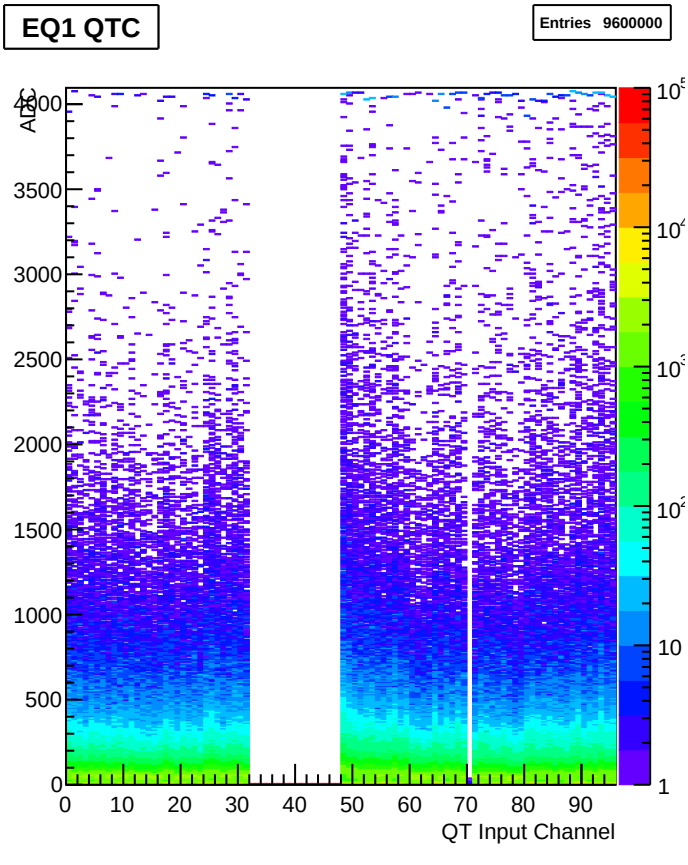

BBQ-VP001 East
Entries 1600000
TAC
QT Input Channel

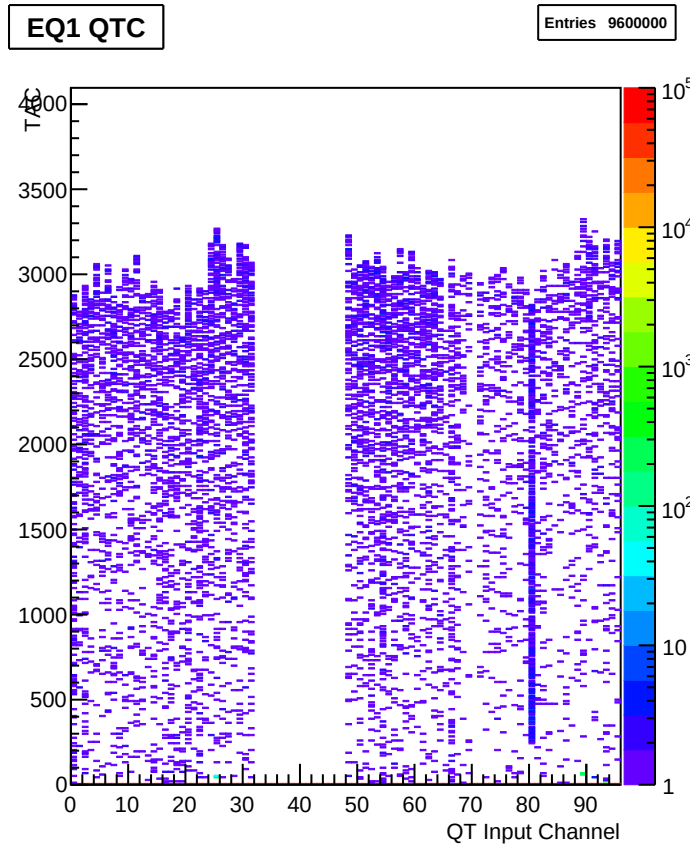

BBQ-VP002 West
Entries 1600000
ADC
QT Input Channel

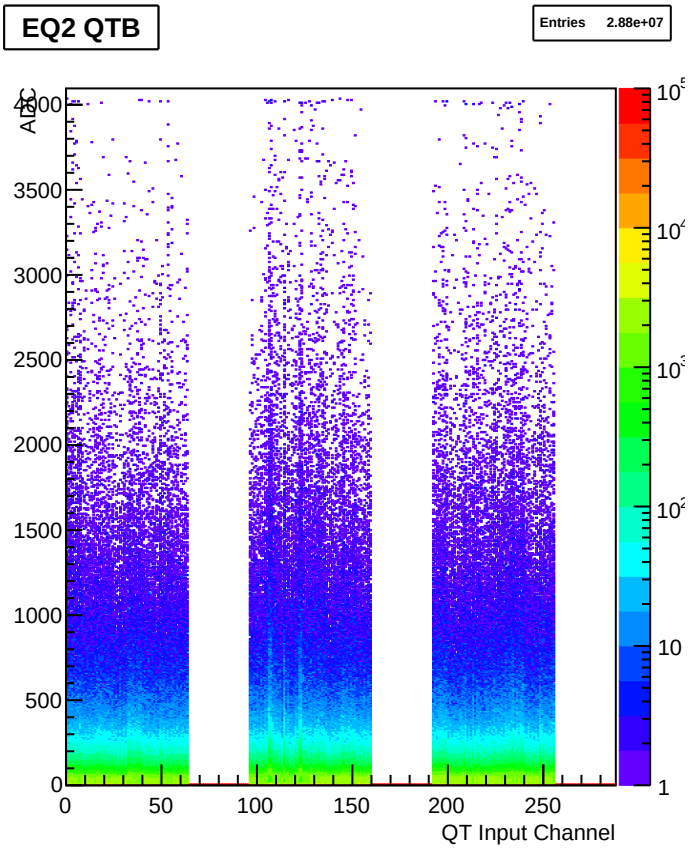

BBQ-VP002 West
Entries 1600000
TAC
QT Input Channel

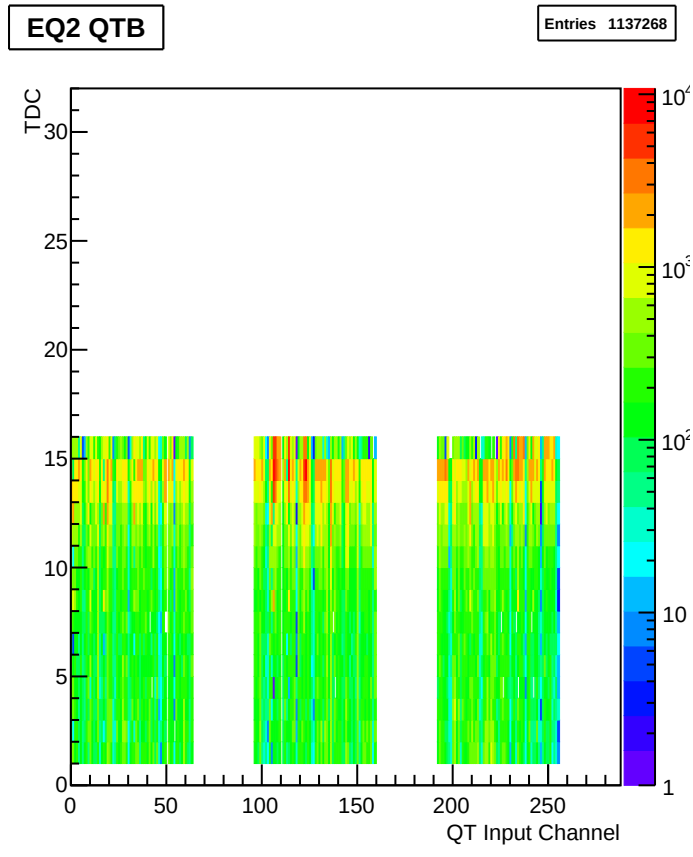

EQ1 QTB
Entries 2.88e+07
ADC
QT Input Channel

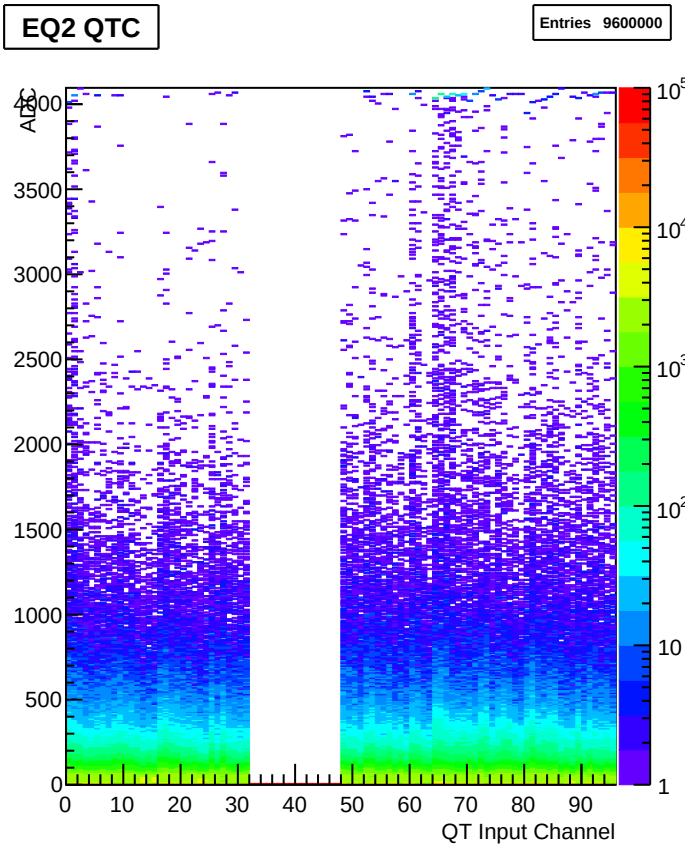

EQ1 QTB
Entries 1434677
TDC
QT Input Channel

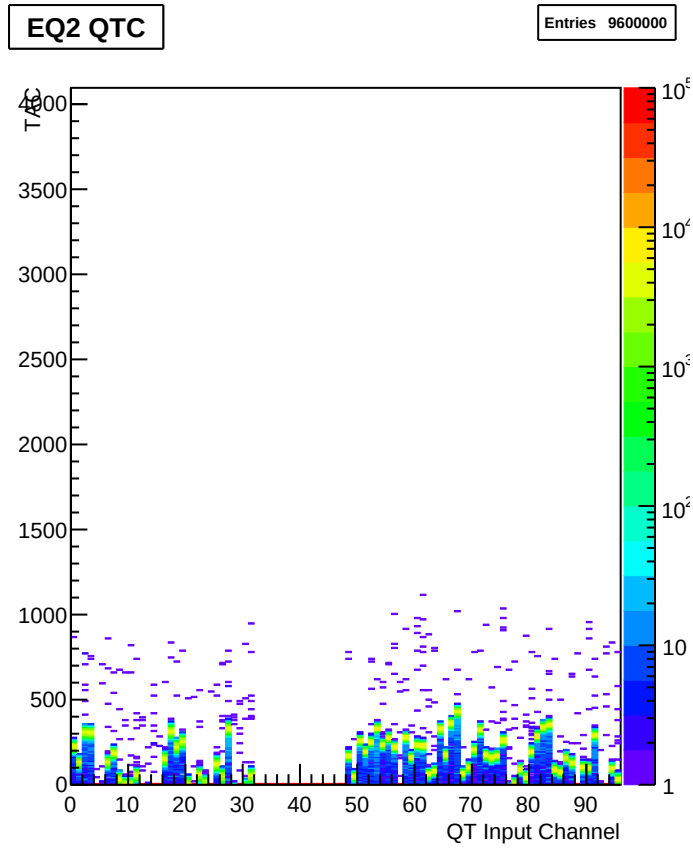

EQ1 QTC
Entries 9600000
ADC
QT Input Channel

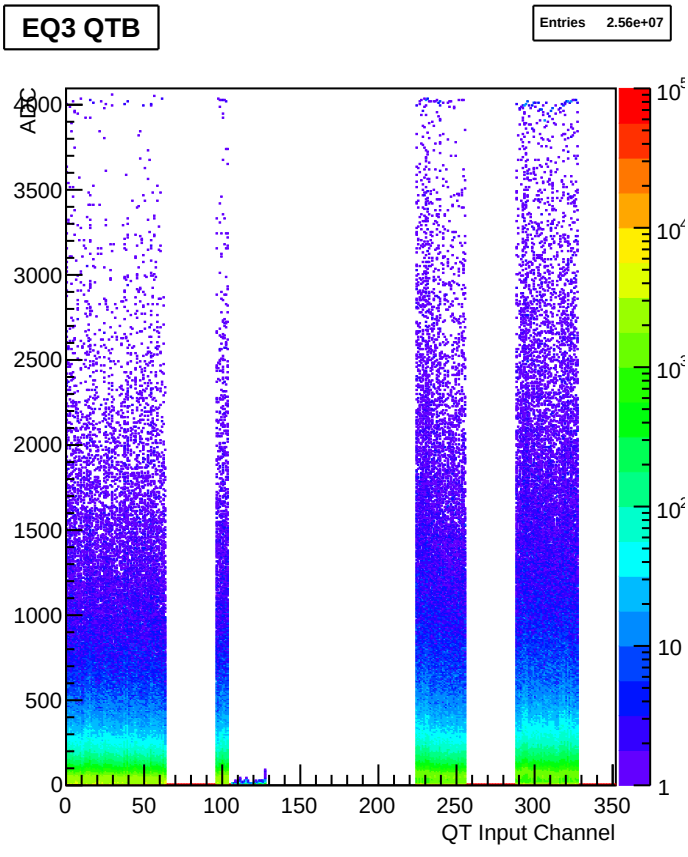

EQ1 QTC
Entries 9600000
TADC
QT Input Channel

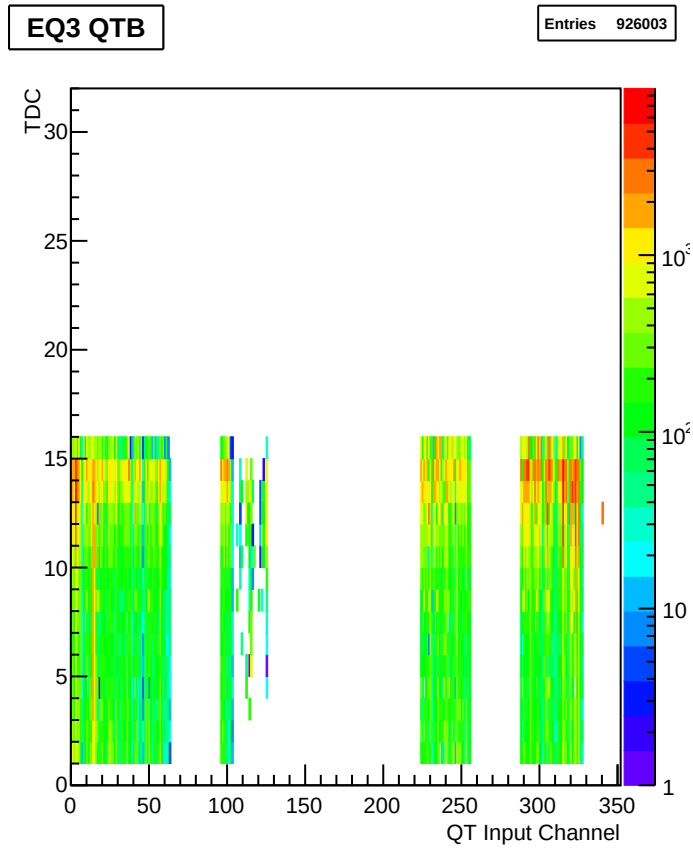

EQ2 QTB
Entries 2.88e+07
ADC
QT Input Channel

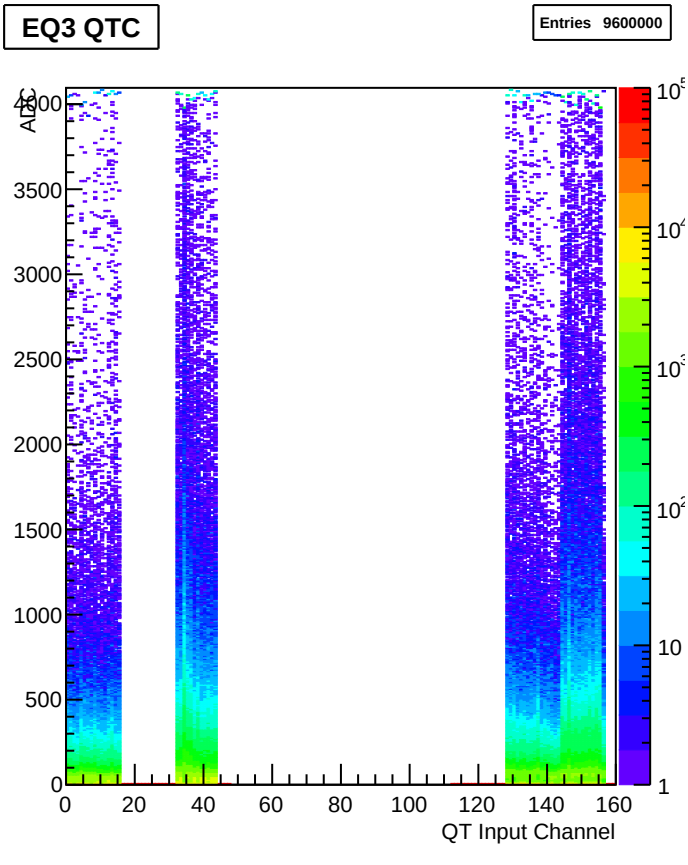

EQ2 QTB
Entries 1137268
TDC
QT Input Channel

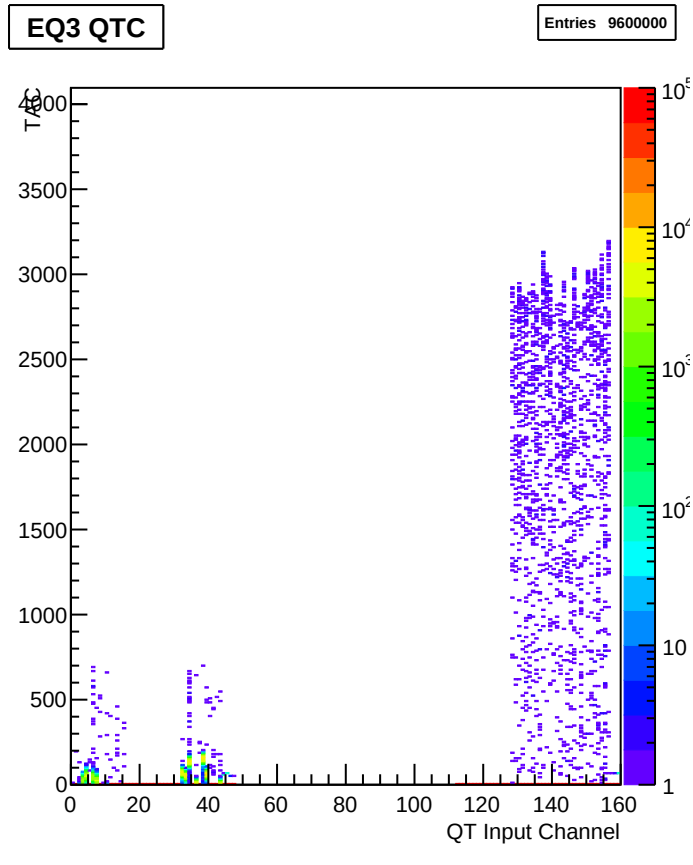

EQ2 QTC
Entries 9600000
ADC
QT Input Channel

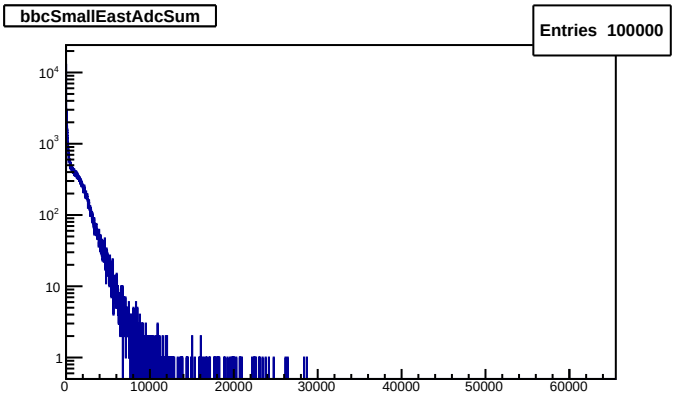

EQ2 QTC
Entries 9600000
TADC
QT Input Channel

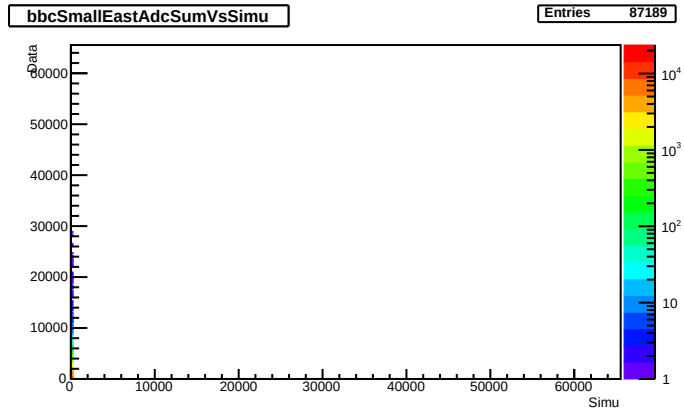

EQ3 QTB
Entries 2.56e+07
ADC
QT Input Channel

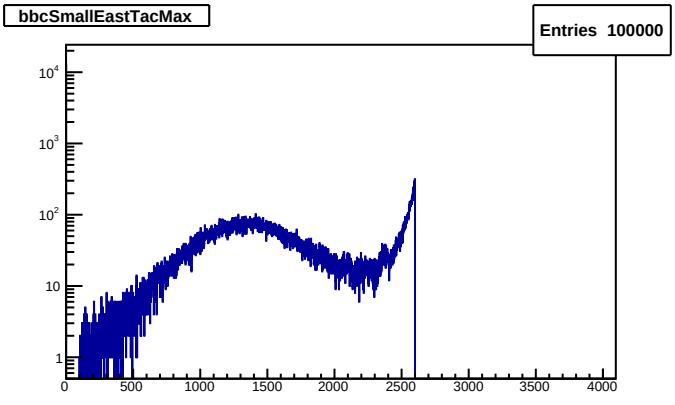

EQ3 QTB
Entries 926003
TDC
QT Input Channel

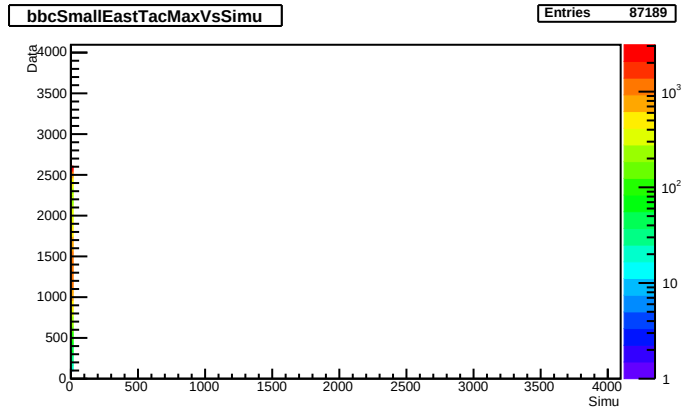

EQ3 QTC
Entries 9600000
ADC
QT Input Channel

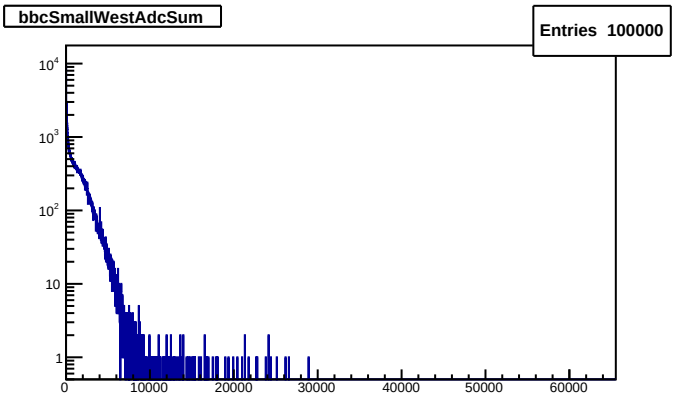

EQ3 QTC
Entries 9600000
TADC
QT Input Channel

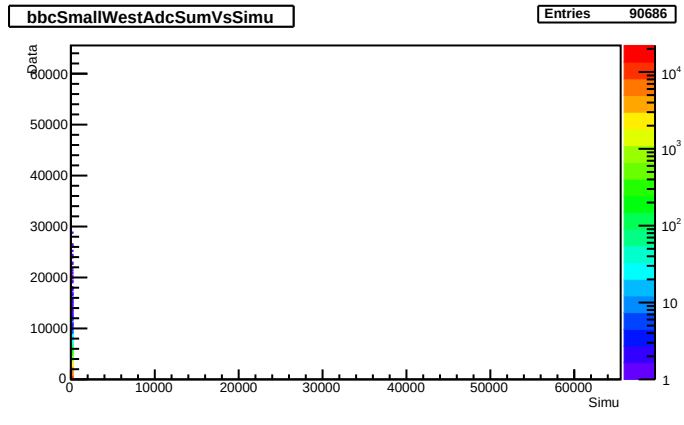

bbcSmallEastAdcSum
Entries 100000

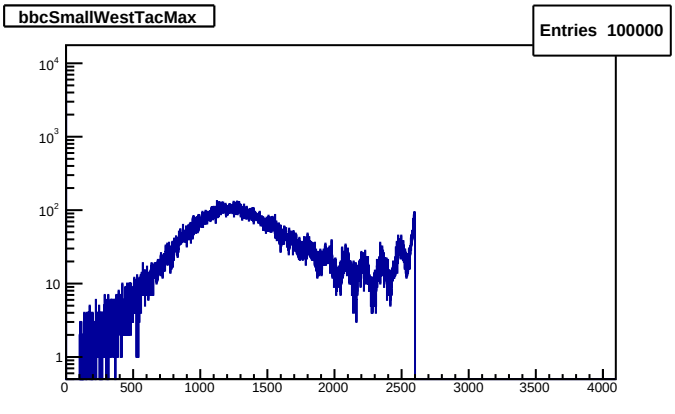

bbcSmallEastAdcSumVsSimu
Entries 87189
Data
Simu

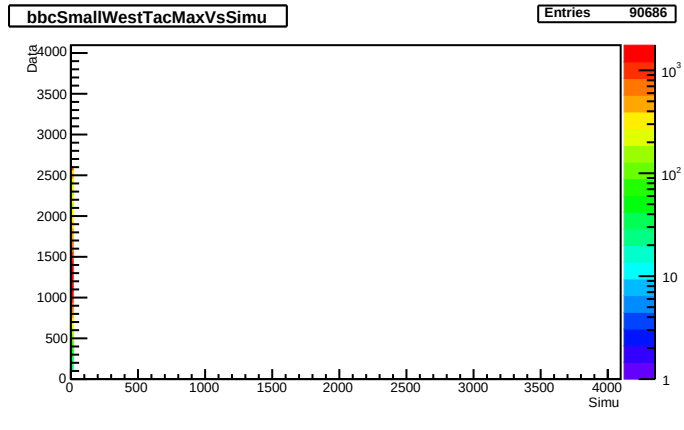

bbcSmallEastTacMax
Entries 100000

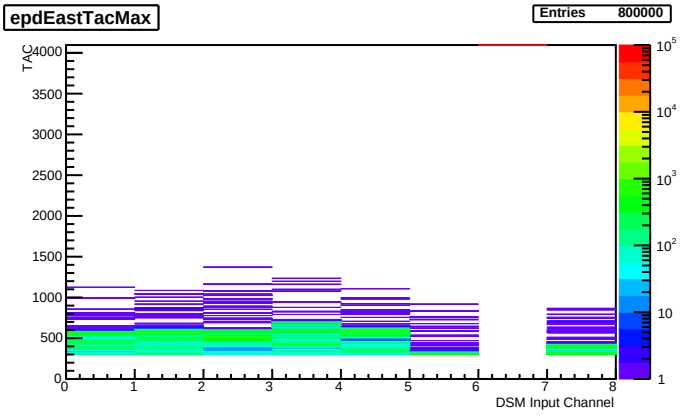

bbcSmallEastTacMaxVsSimu
Entries 87189
Data
Simu

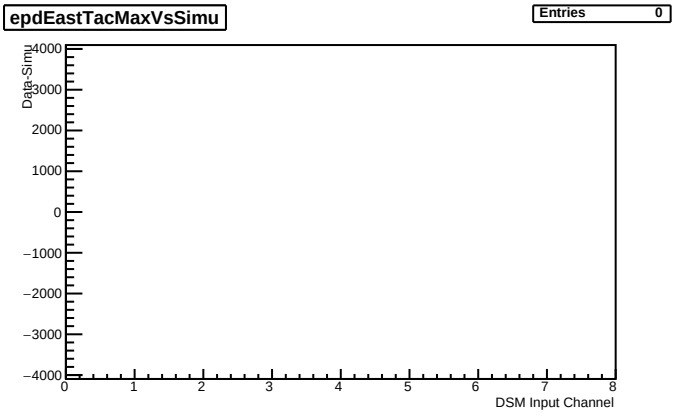

bbcSmallWestAdcSum
Entries 100000

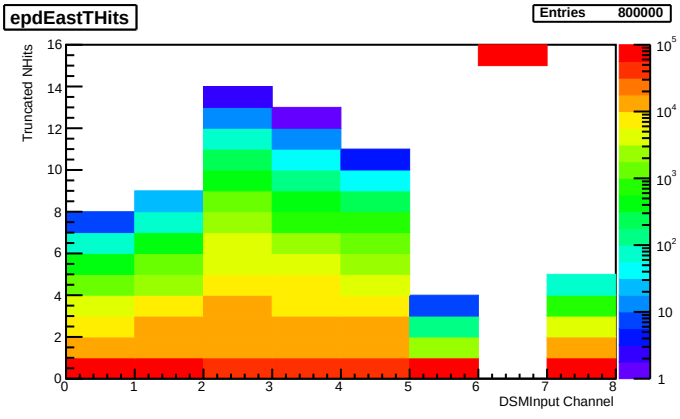

bbcSmallWestAdcSumVsSimu
Entries 90686
Data
Simu

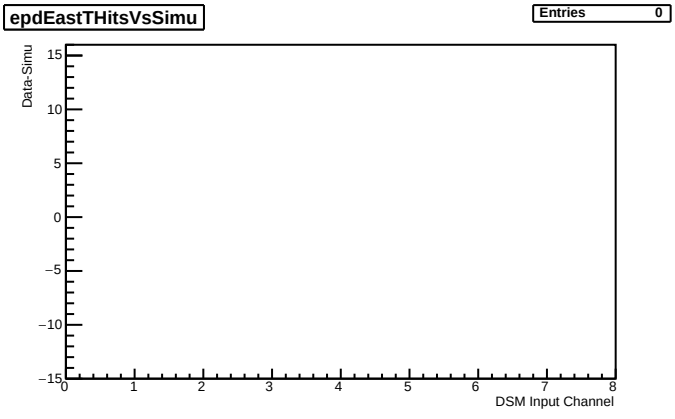

bbcSmallWestTacMax
Entries 100000

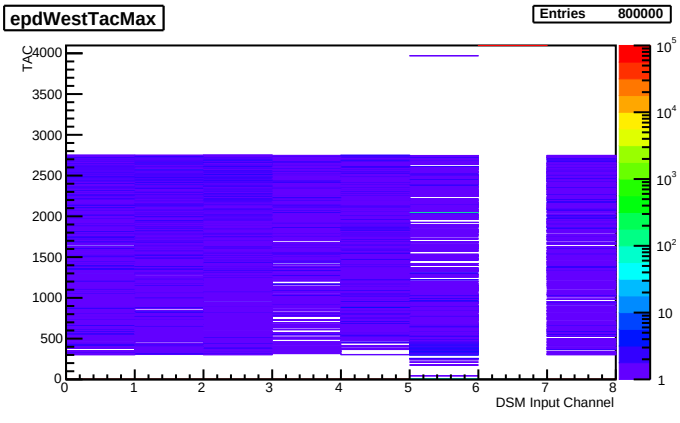

bbcSmallWestTacMaxVsSimu
Entries 90686
Data
Simu

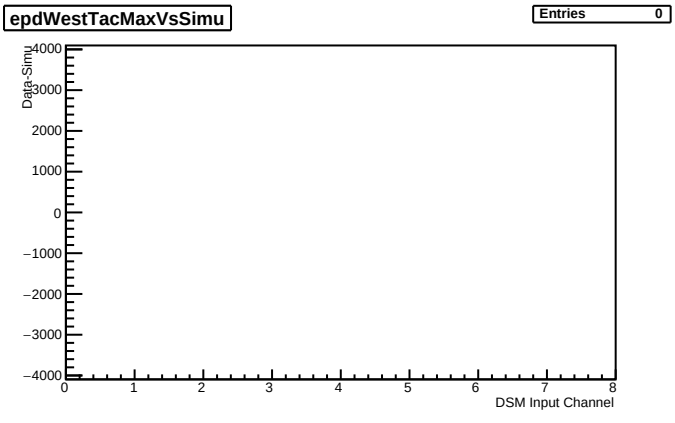

epdEastTacMax
Entries 800000
TAC
DSM Input Channel

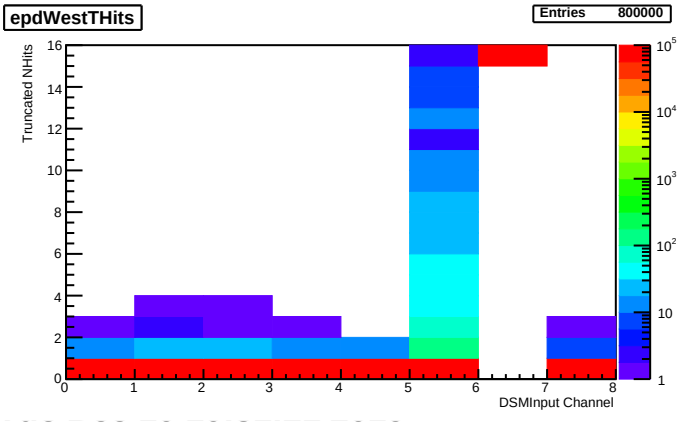

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

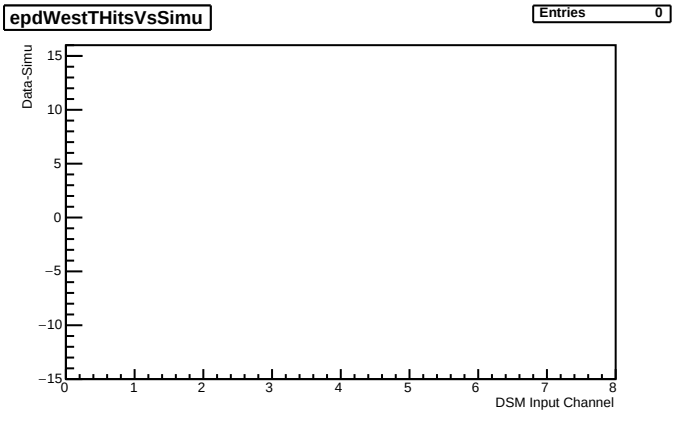

epdEastTHits
Entries 800000
Truncated NHits
DSMInput Channel

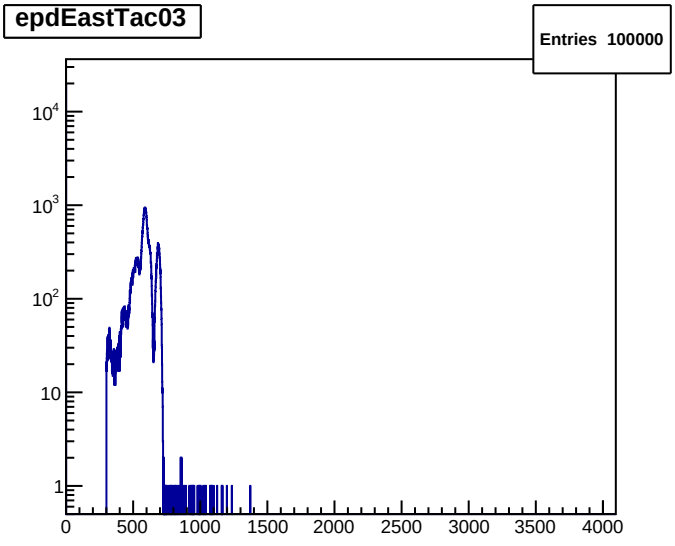

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

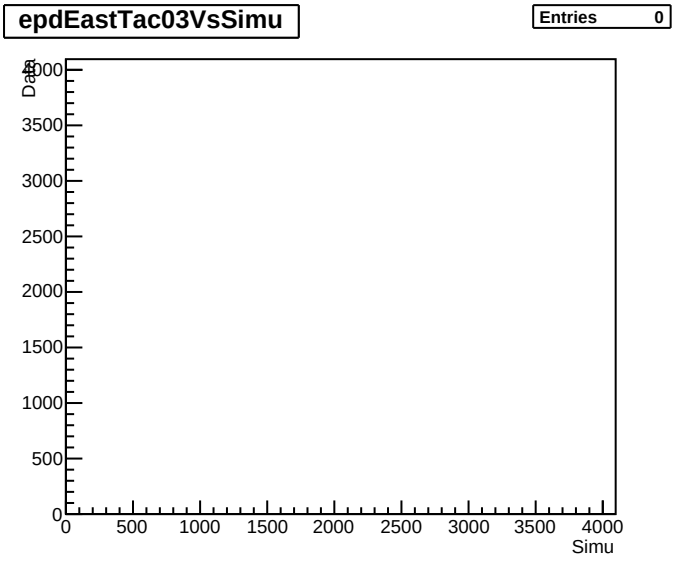

epdWestTacMax
Entries 800000
TAC
DSM Input Channel

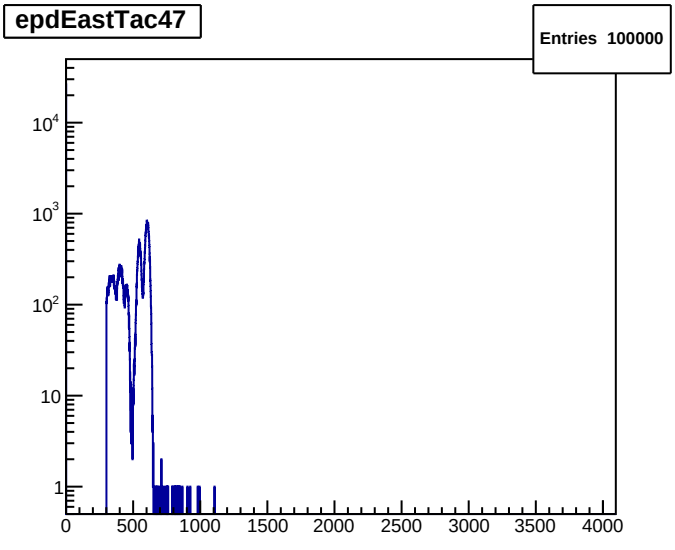

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

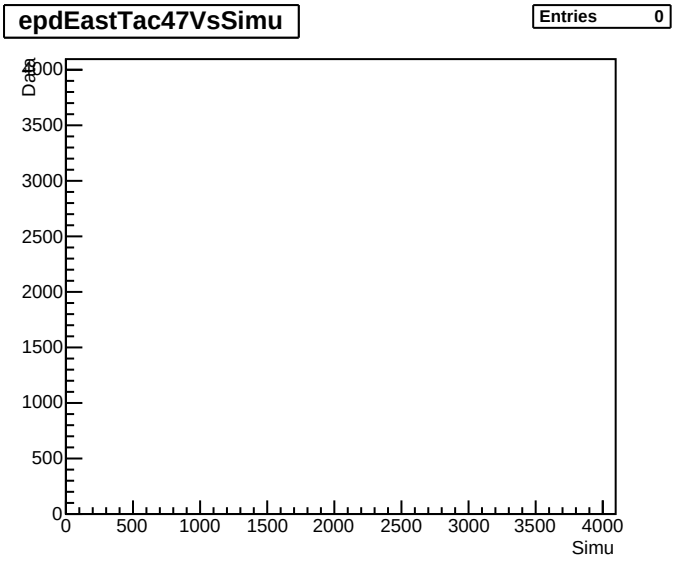

epdWestTHits
Entries 800000
Truncated NHits
DSMInput Channel

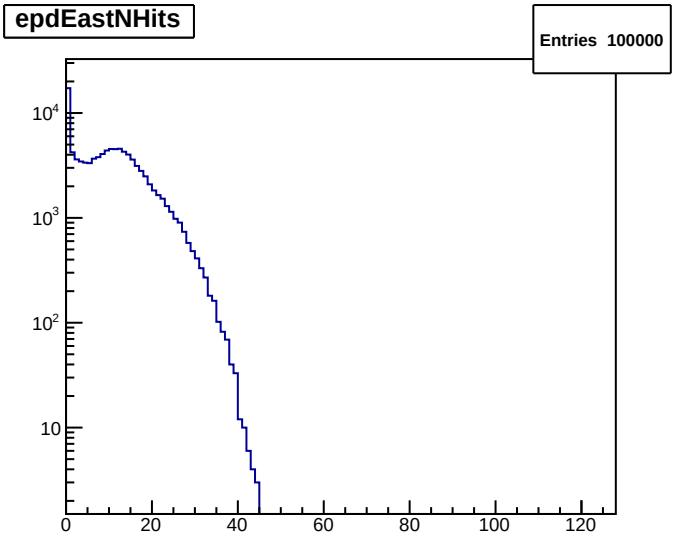

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

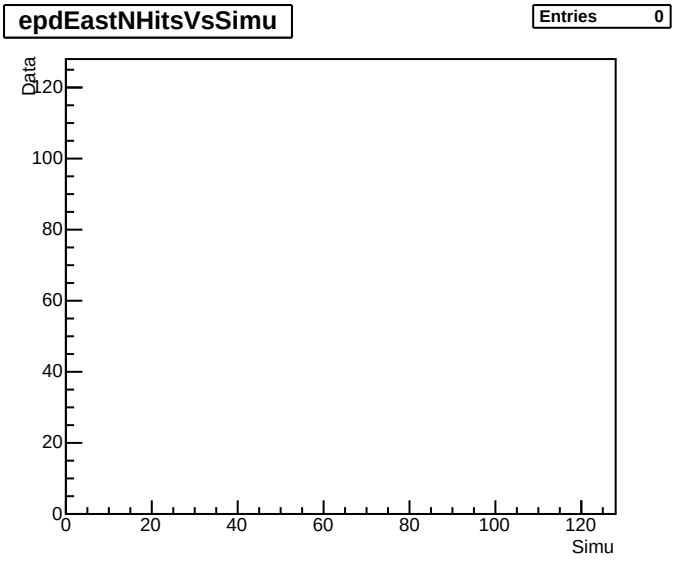

epdEastTac03
Entries 100000

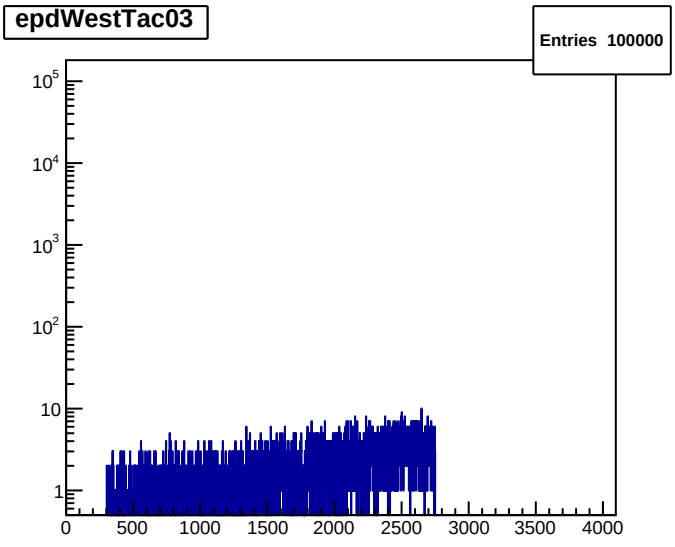

epdEastTac03VsSimu
Entries 0
Data
Simu

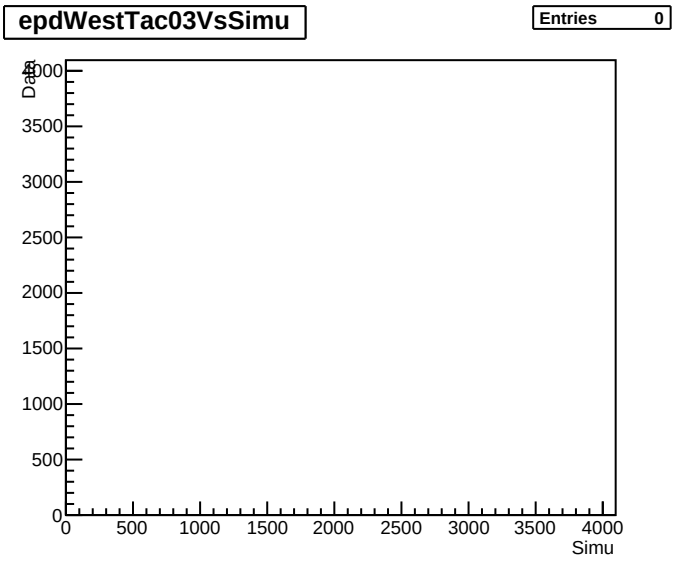

epdEastTac47
Entries 100000

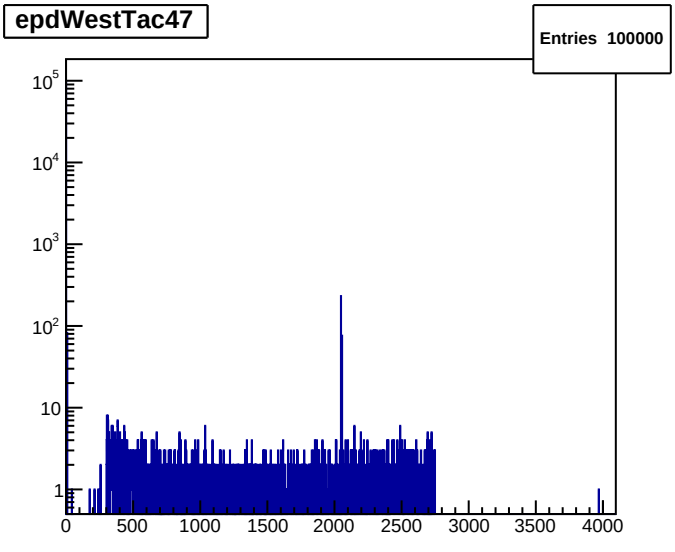

epdEastTac47VsSimu
Entries 0
Data
Simu

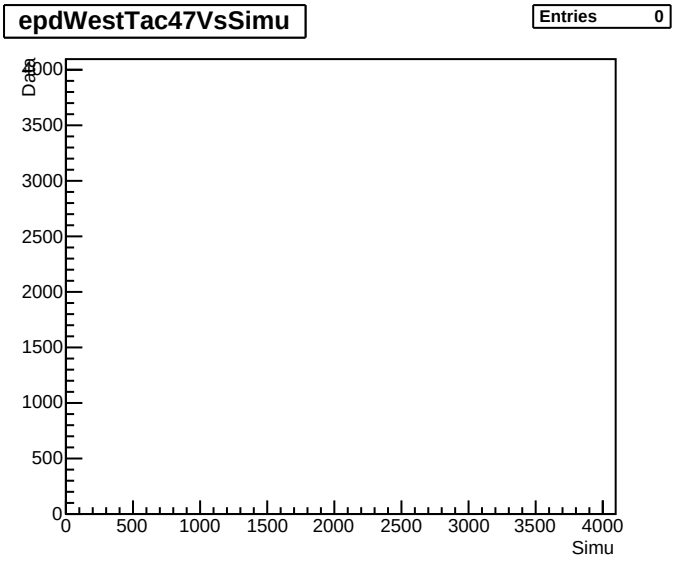

epdEastNHits
Entries 100000

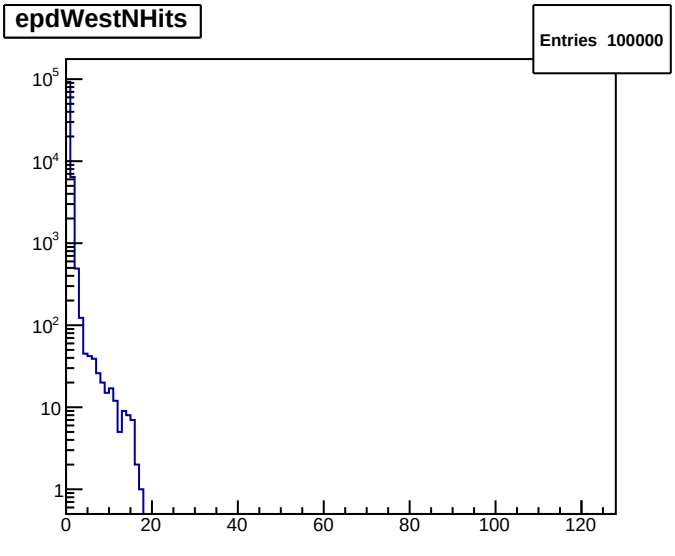

epdEastNHitsVsSimu
Entries 0
Data
Simu

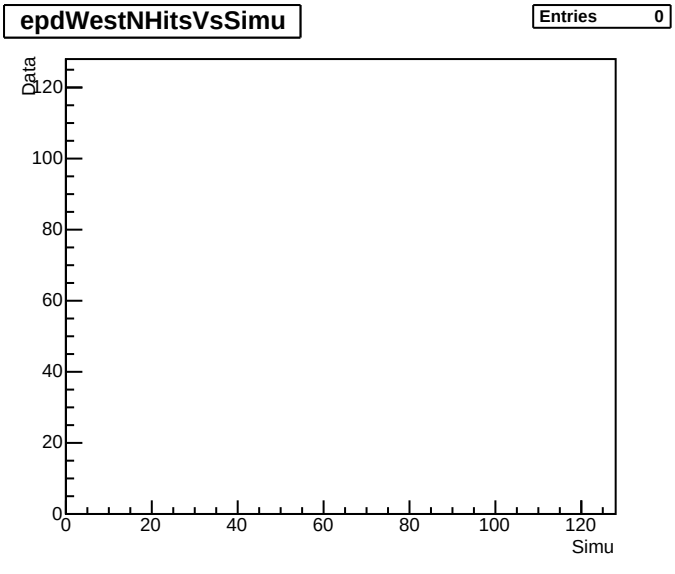

epdWestTac03
Entries 100000

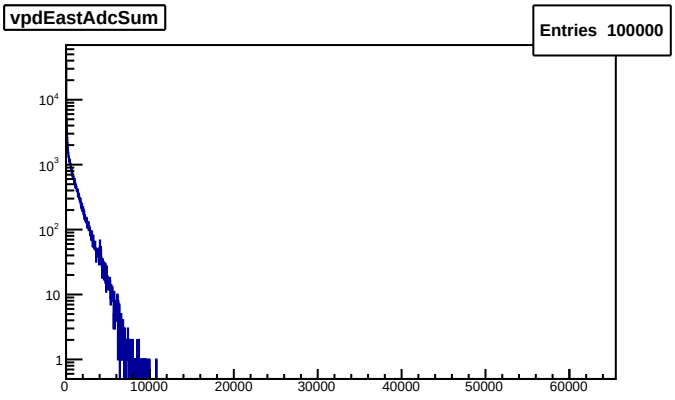

epdWestTac03VsSimu
Entries 0
Data
Simu

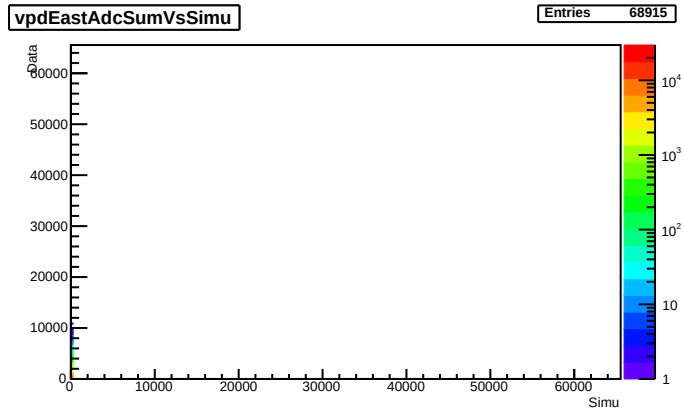

epdWestTac47
Entries 100000

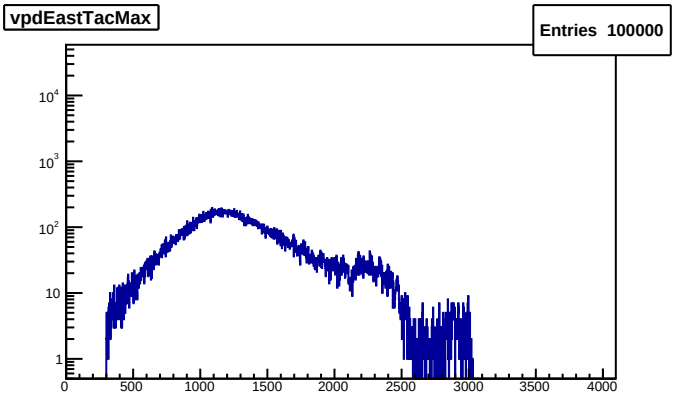

epdWestTac47VsSimu
Entries 0
Data
Simu

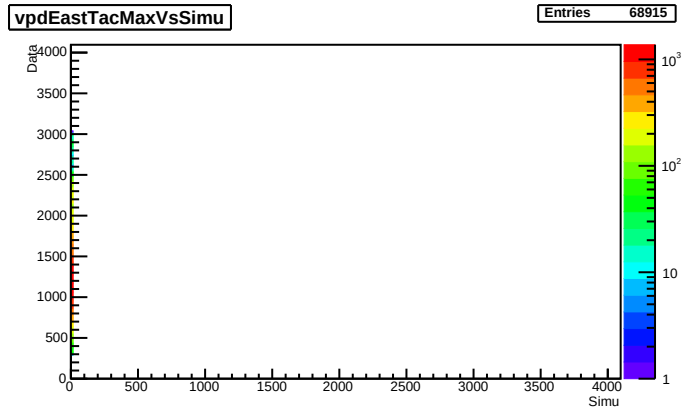

epdWestNHits
Entries 100000

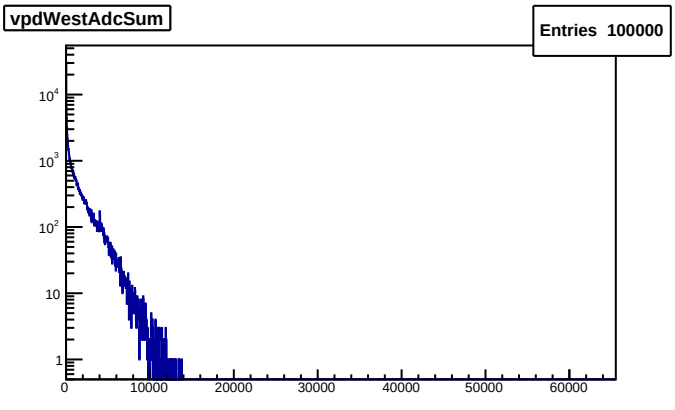

epdWestNHitsVsSimu
Entries 0
Data
Simu

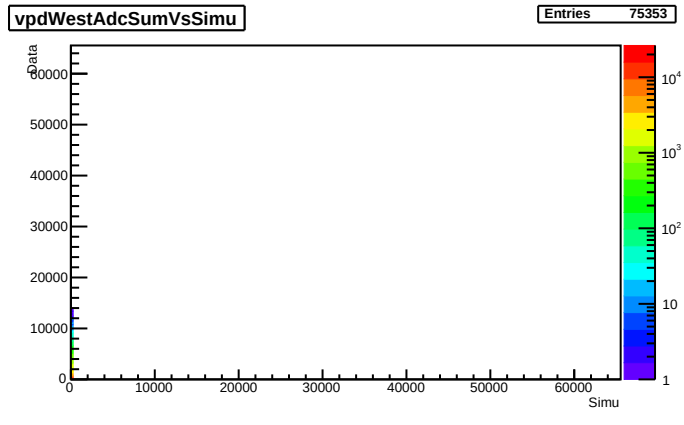

vpdEastAdcSum
Entries 100000

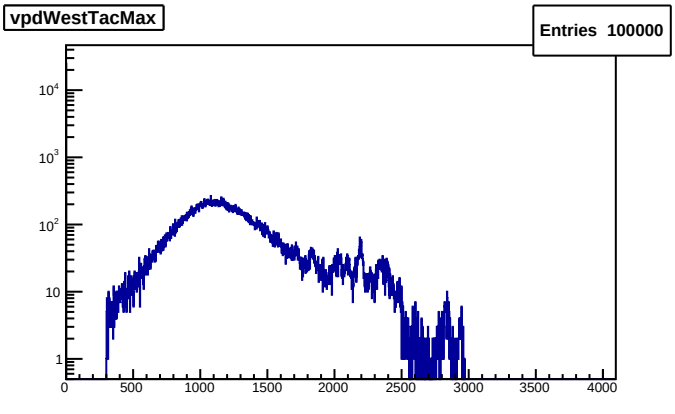

vpdEastAdcSumVsSimu
Entries 68915
Data
Simu

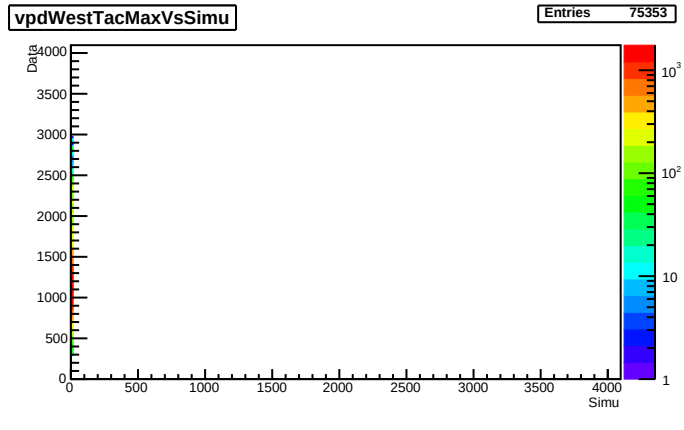

vpdEastTacMax
Entries 100000

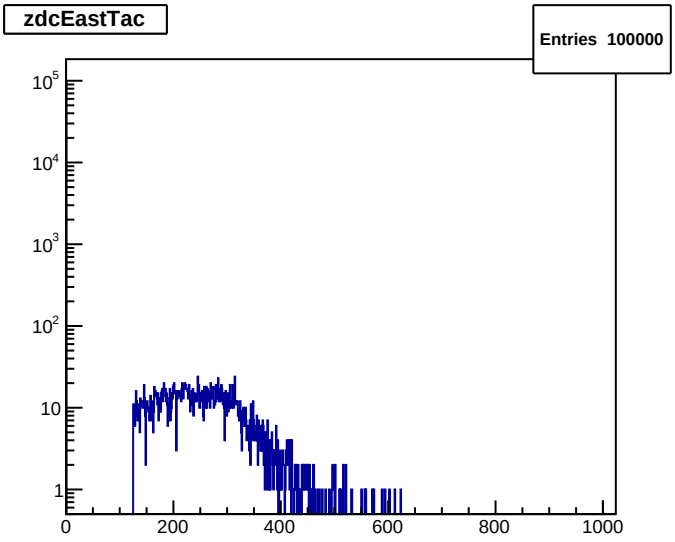

vpdEastTacMaxVsSimu
Entries 68915
Data
Simu

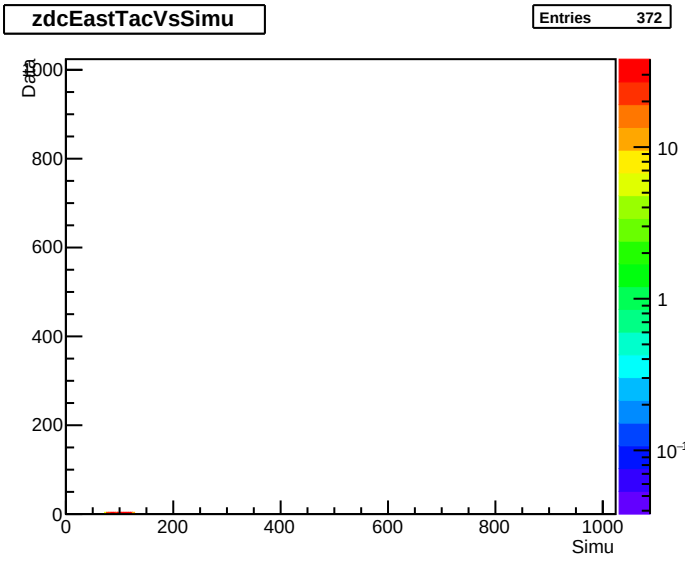

vpdWestAdcSum
Entries 100000

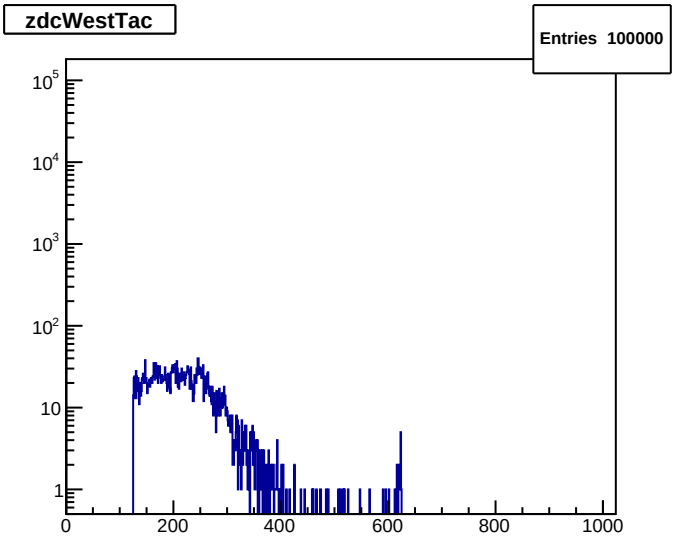

vpdWestAdcSumVsSimu
Entries 75353
Data
Simu

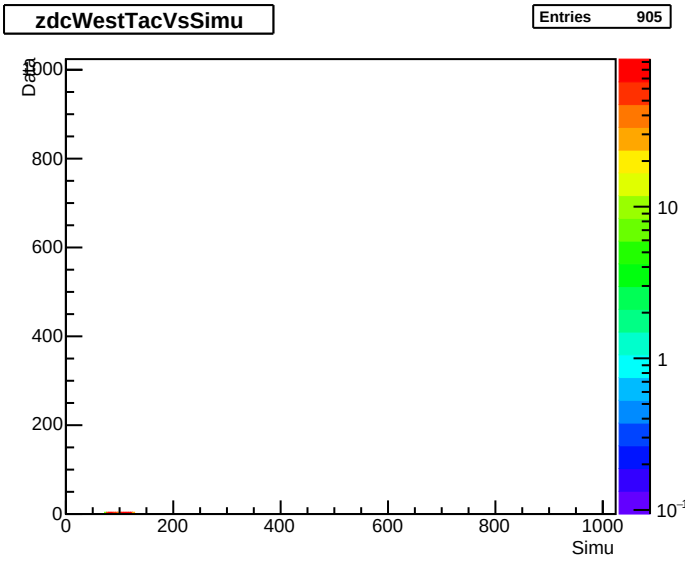

vpdWestTacMax
Entries 100000

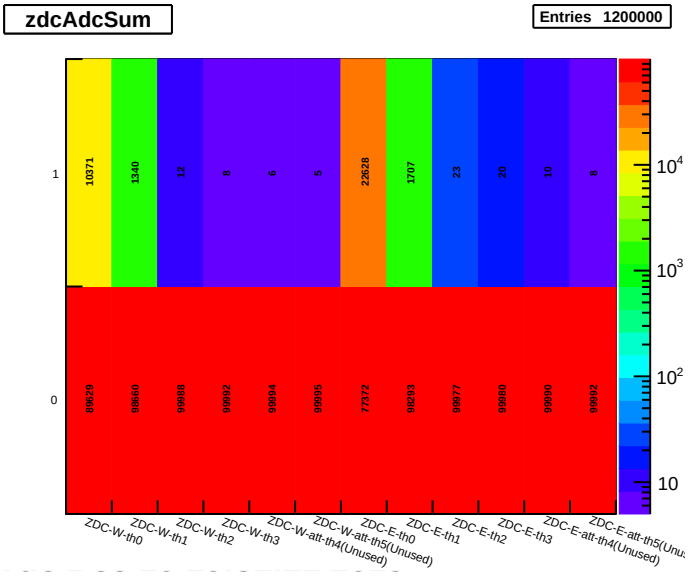

vpdWestTacMaxVsSimu
Entries 75353
Data
Simu

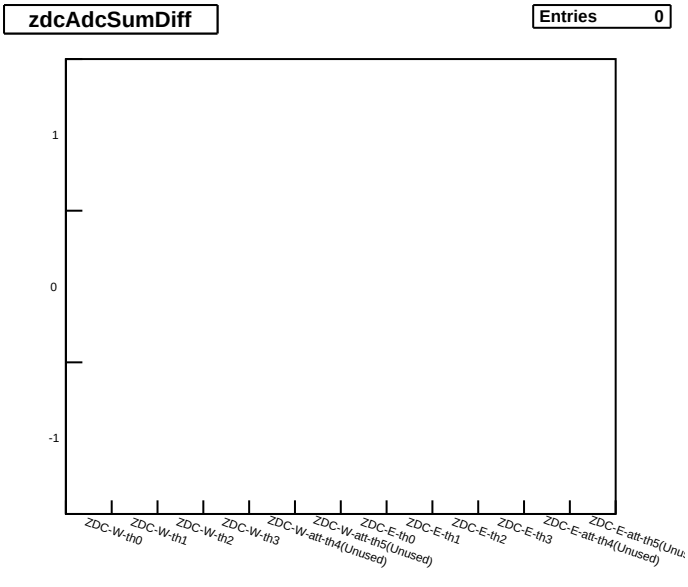

zdcEastTac
Entries 100000

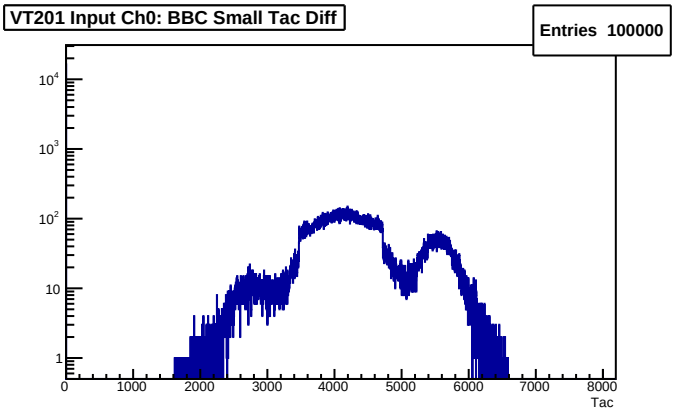

zdcEastTacVsSimu
Entries 372
Data
Simu

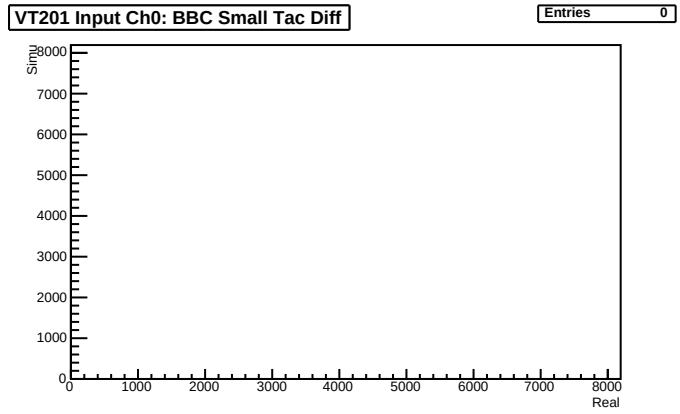

zdcWestTac
Entries 100000

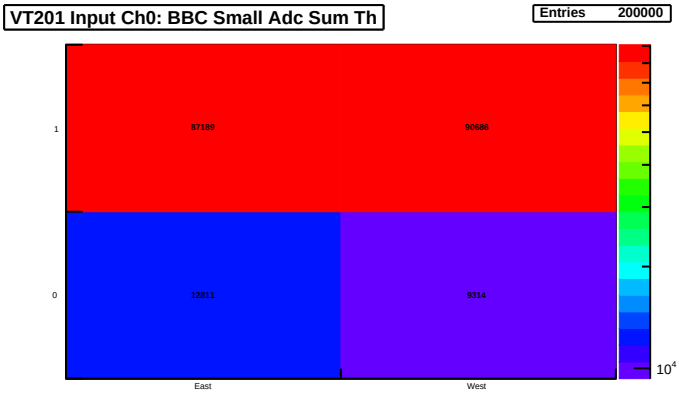

zdcWestTacVsSimu
Entries 905
Data
Simu

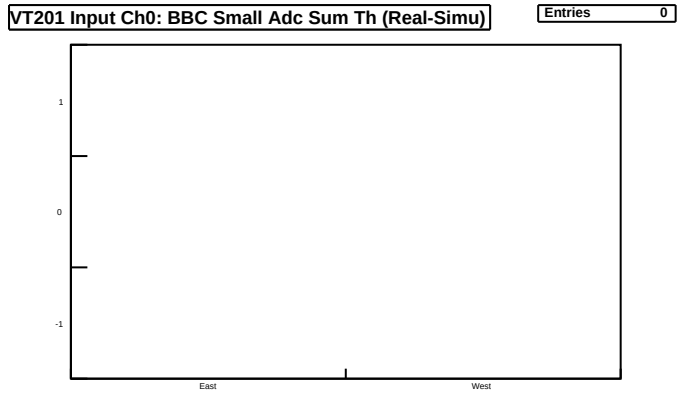

zdcAdcSum
Entries 1200000
10371
1340
12
8
6
5
22628
1707
23
20
10
8
98629
98660
99988
99992
99994
99995
77372
98293
99977
99980
99990
99992
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

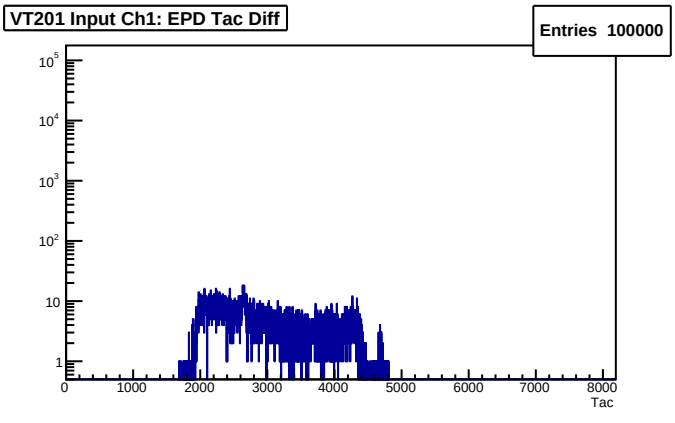

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

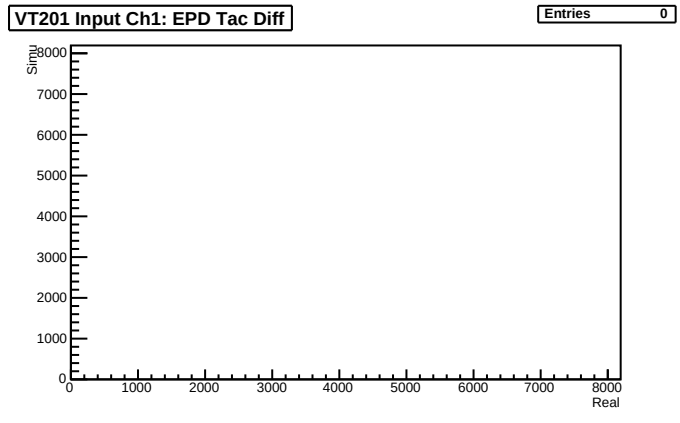

VT201 Input Ch0: BBC Small Tac Diff
Entries 100000
Tac

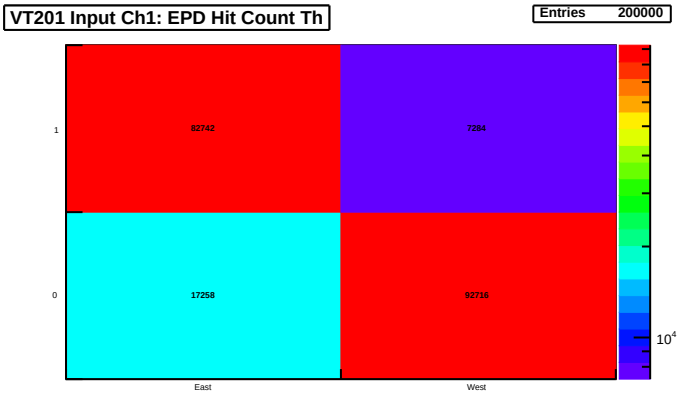

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

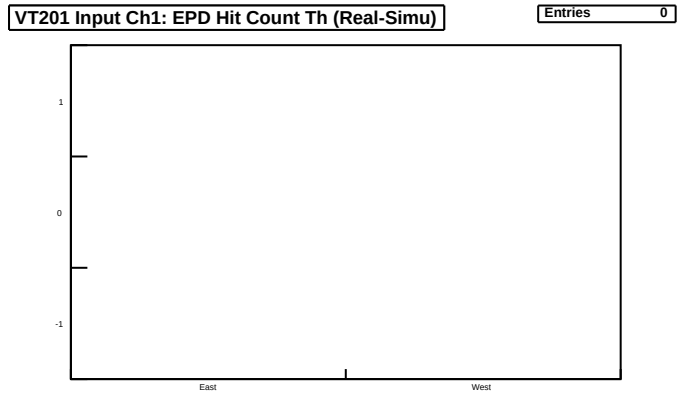

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 200000
87189
90686
12811
9314
East
West

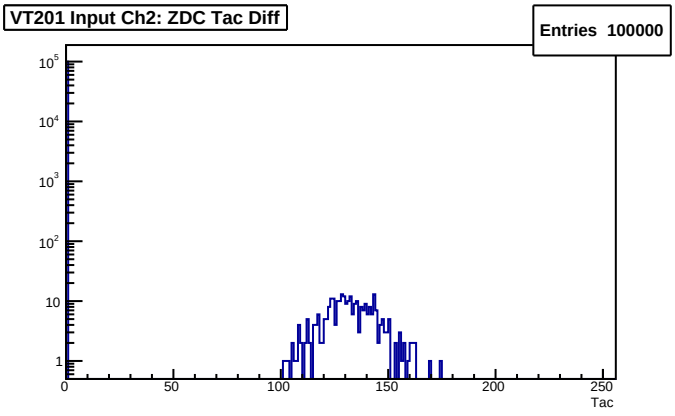

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

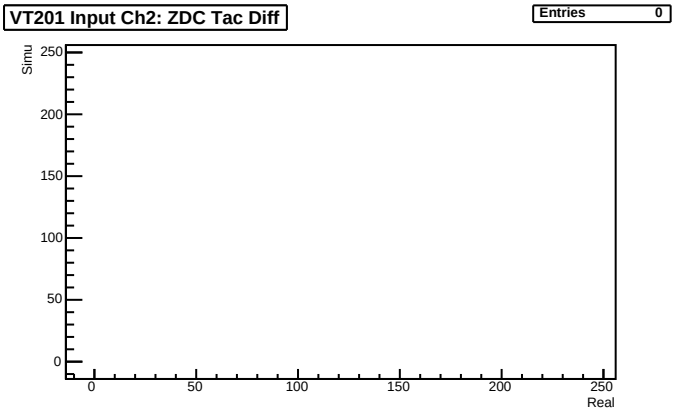

VT201 Input Ch1: EPD Tac Diff
Entries 100000
Tac

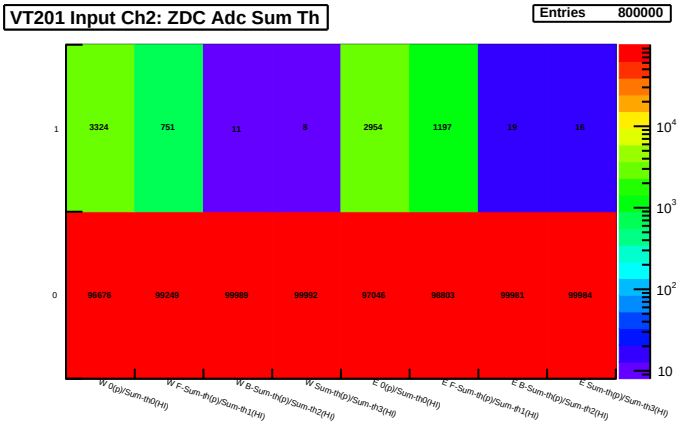

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

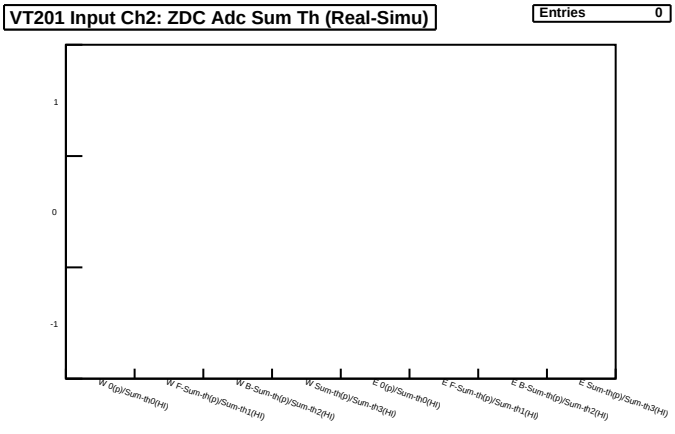

VT201 Input Ch1: EPD Hit Count Th
Entries 200000
82742
7284
17258
92716
East
West

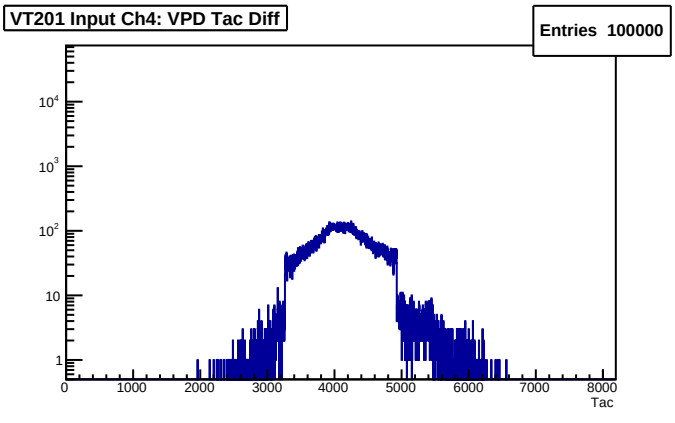

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

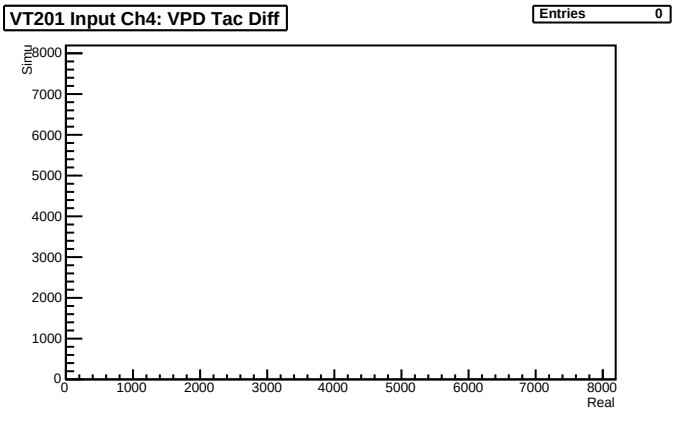

VT201 Input Ch2: ZDC Tac Diff
Entries 100000
Tac

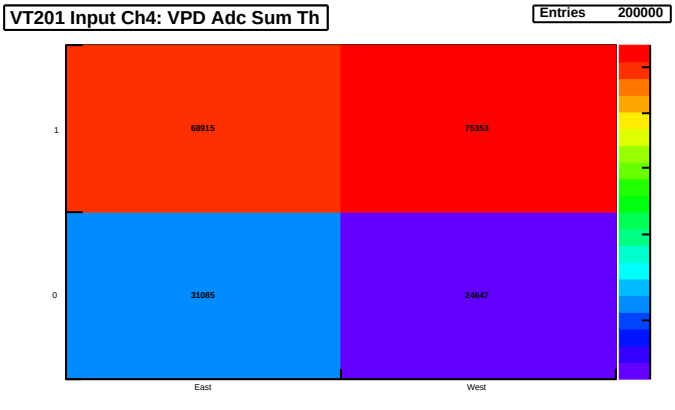

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

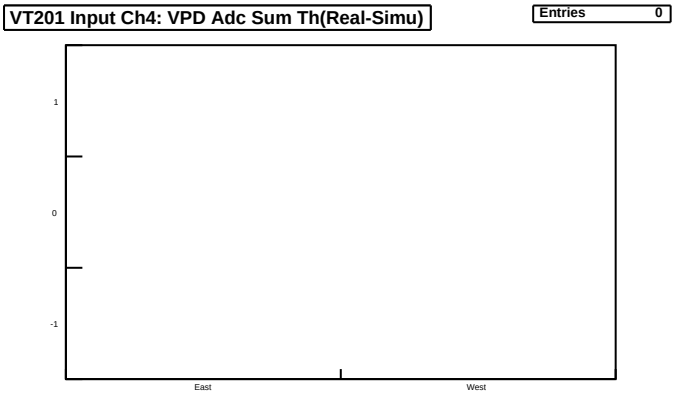

VT201 Input Ch2: ZDC Adc Sum Th
Entries 800000
3324
751
11
8
2954
1197
19
16
96676
99249
99989
99992
97046
98803
99981
99984
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

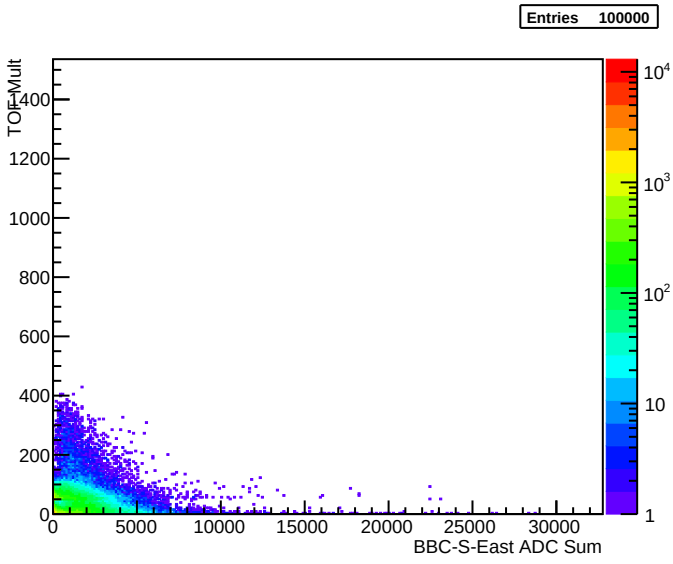

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

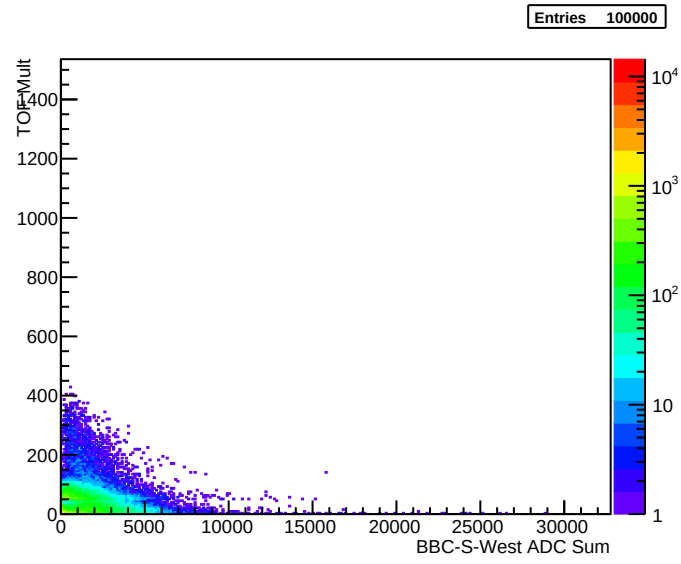

VT201 Input Ch4: VPD Tac Diff
Entries 100000
Tac

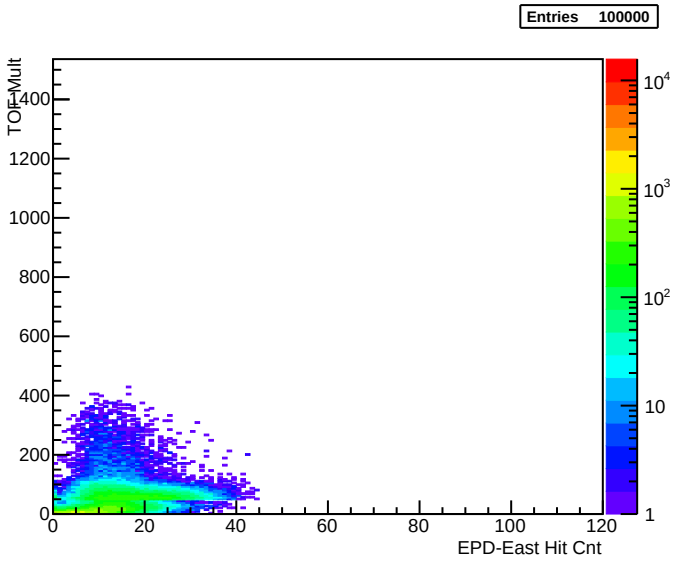

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

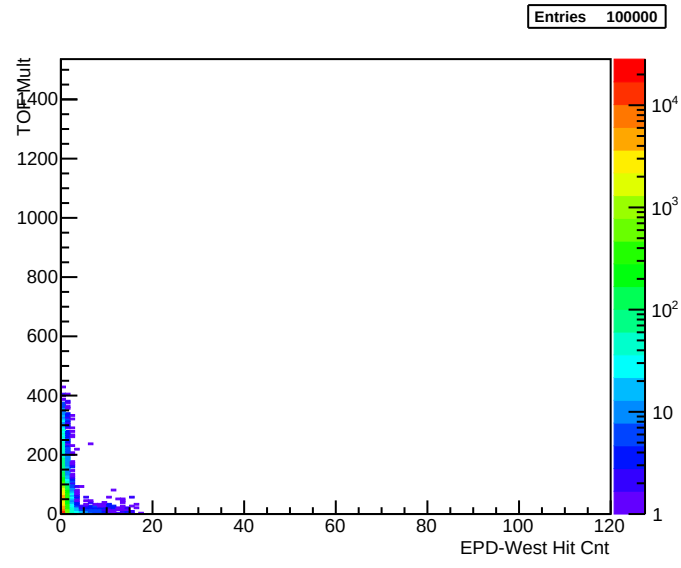

VT201 Input Ch4: VPD Adc Sum Th
Entries 200000
68915
75353
31085
24647
East
West

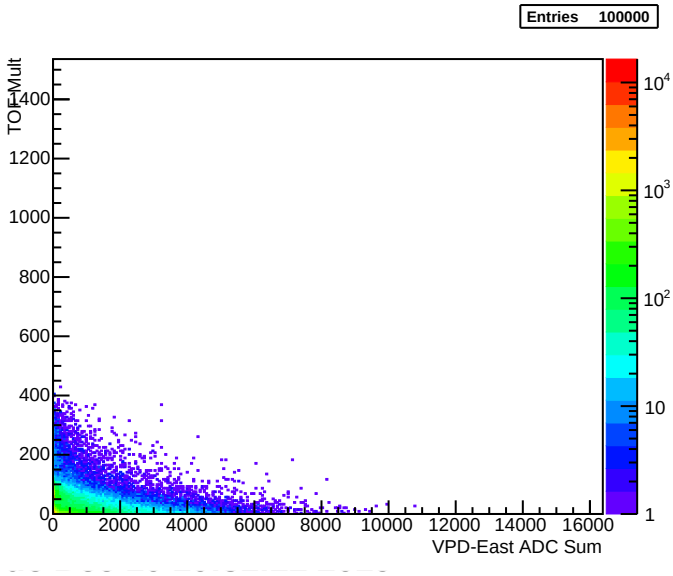

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

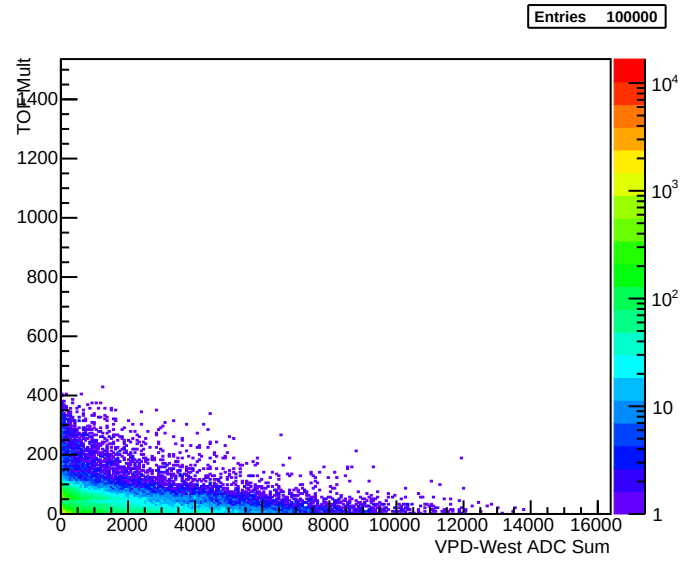

Entries 100000
TOF-Mult
BBC-S-East ADC Sum

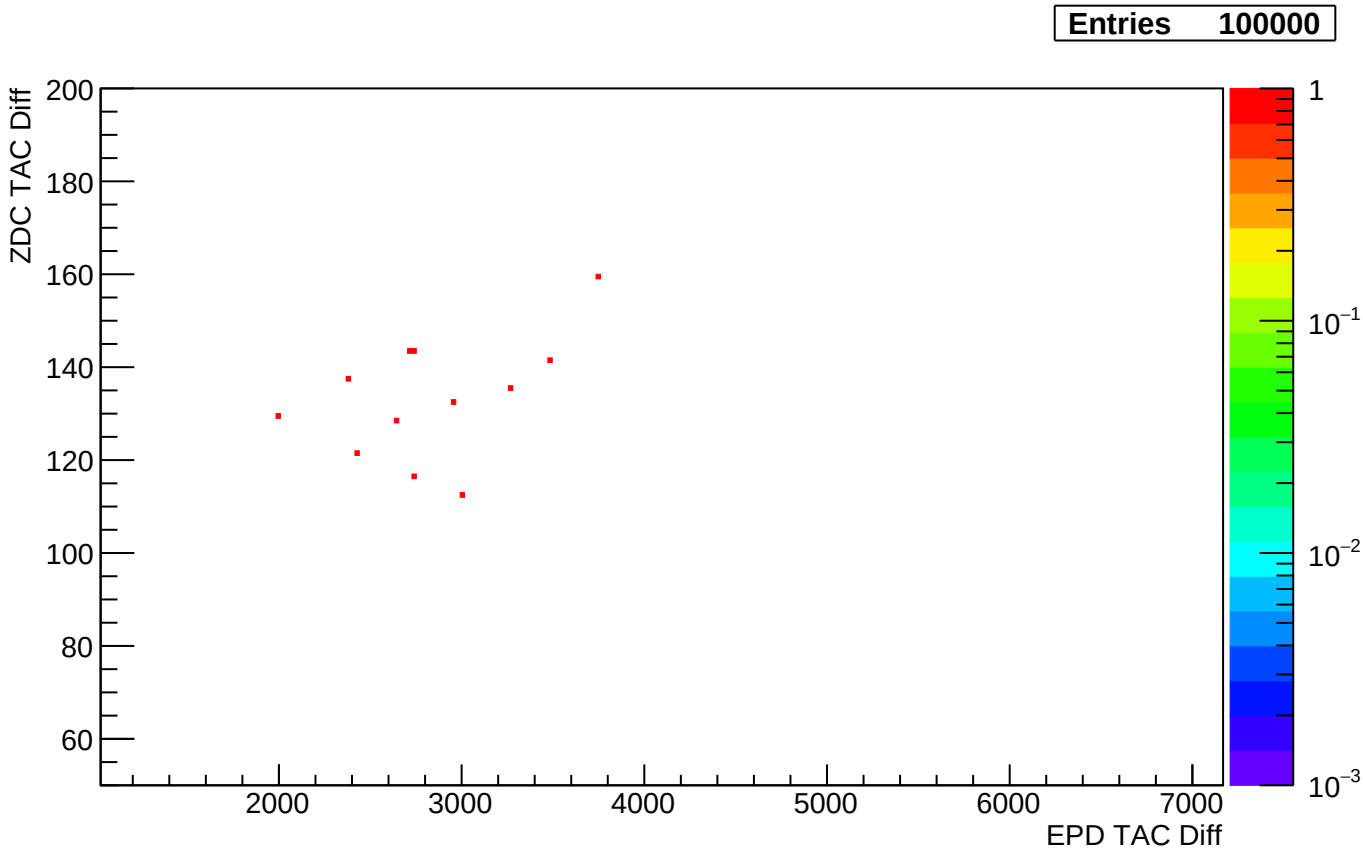

Entries 100000
TOF-Mult
BBC-S-West ADC Sum

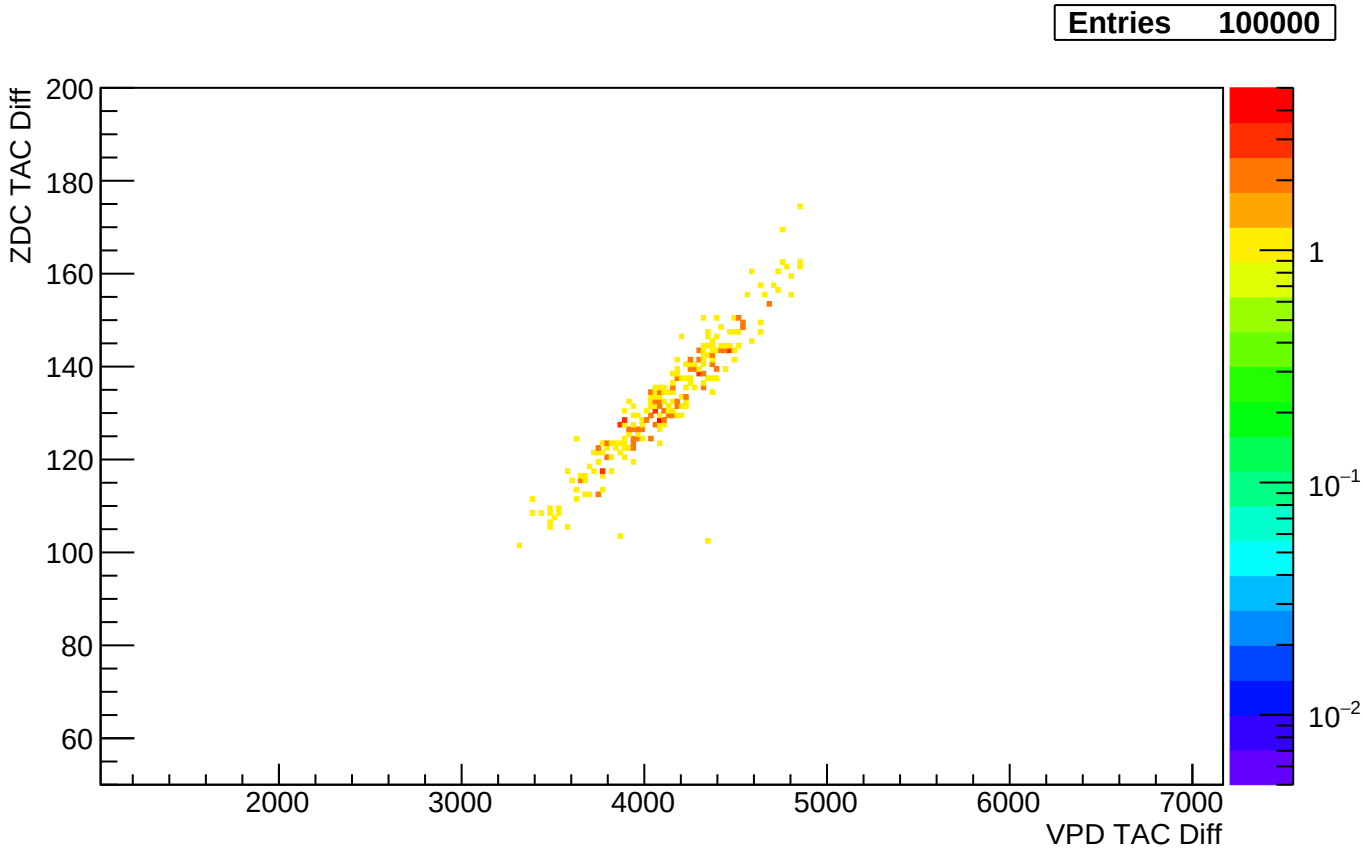

Entries 100000
TOF-Mult
EPD-East Hit Cnt

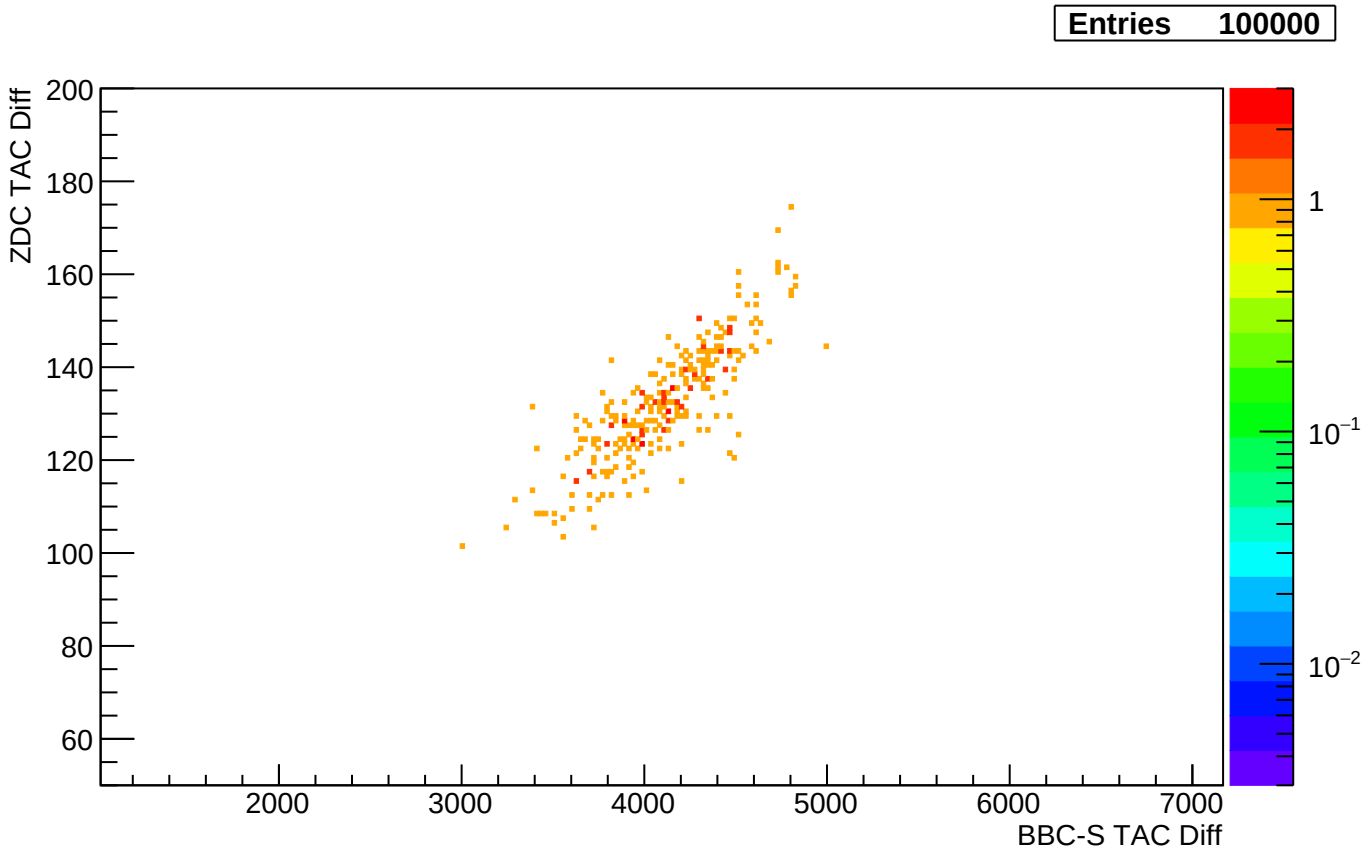

Entries 100000
TOF-Mult
EPD-West Hit Cnt

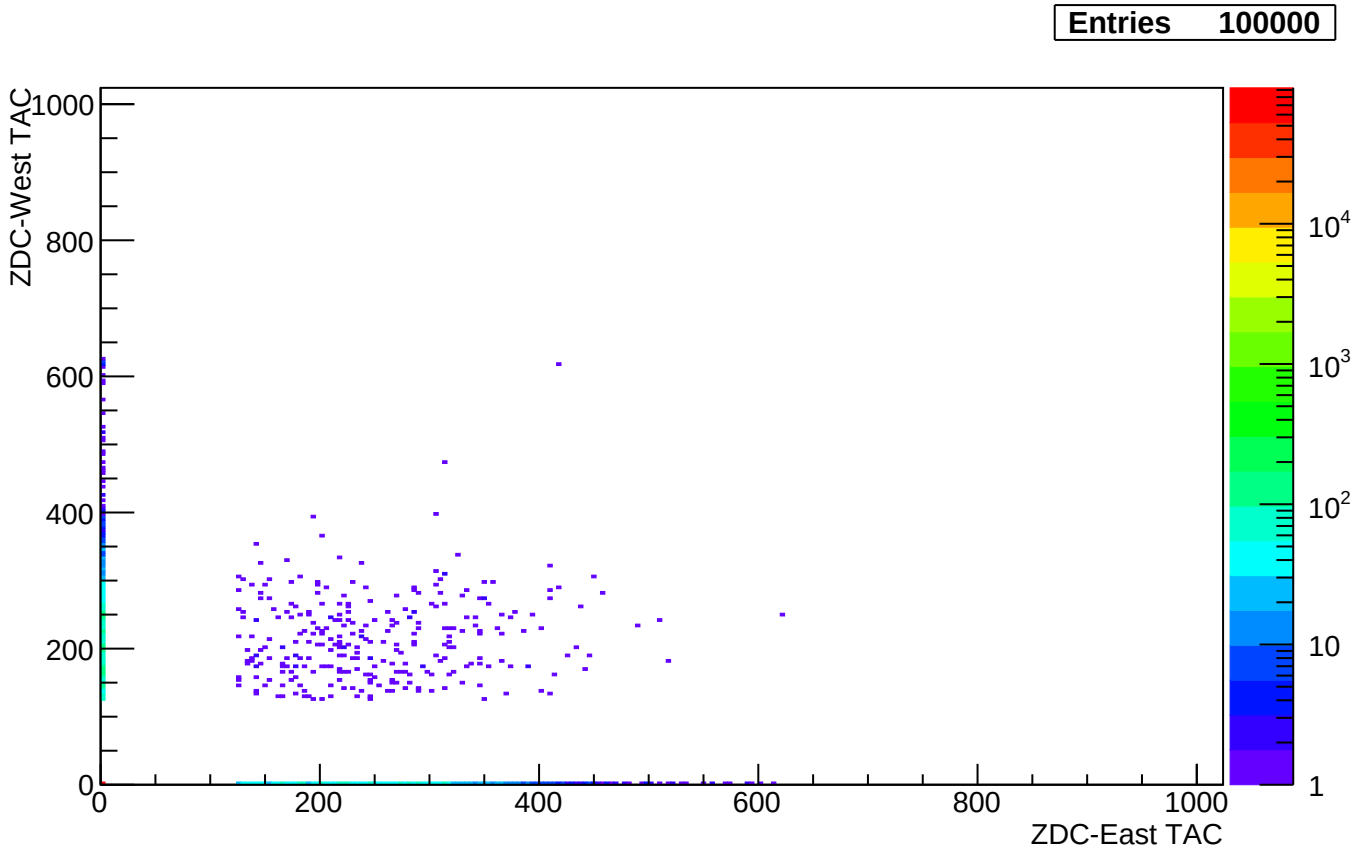

Entries 100000
TOF-Mult
VPD-East ADC Sum

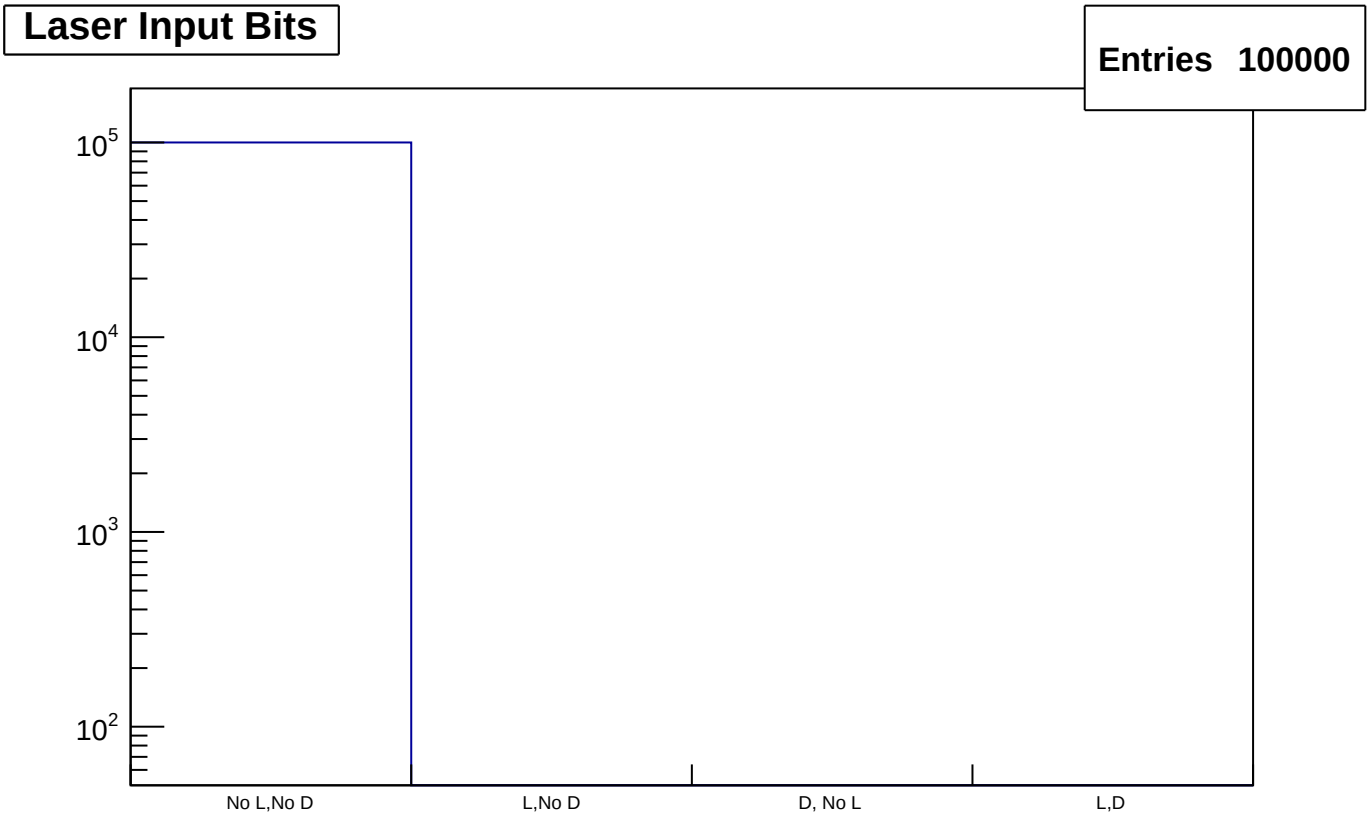

Entries 100000
TOF-Mult
VPD-West ADC Sum

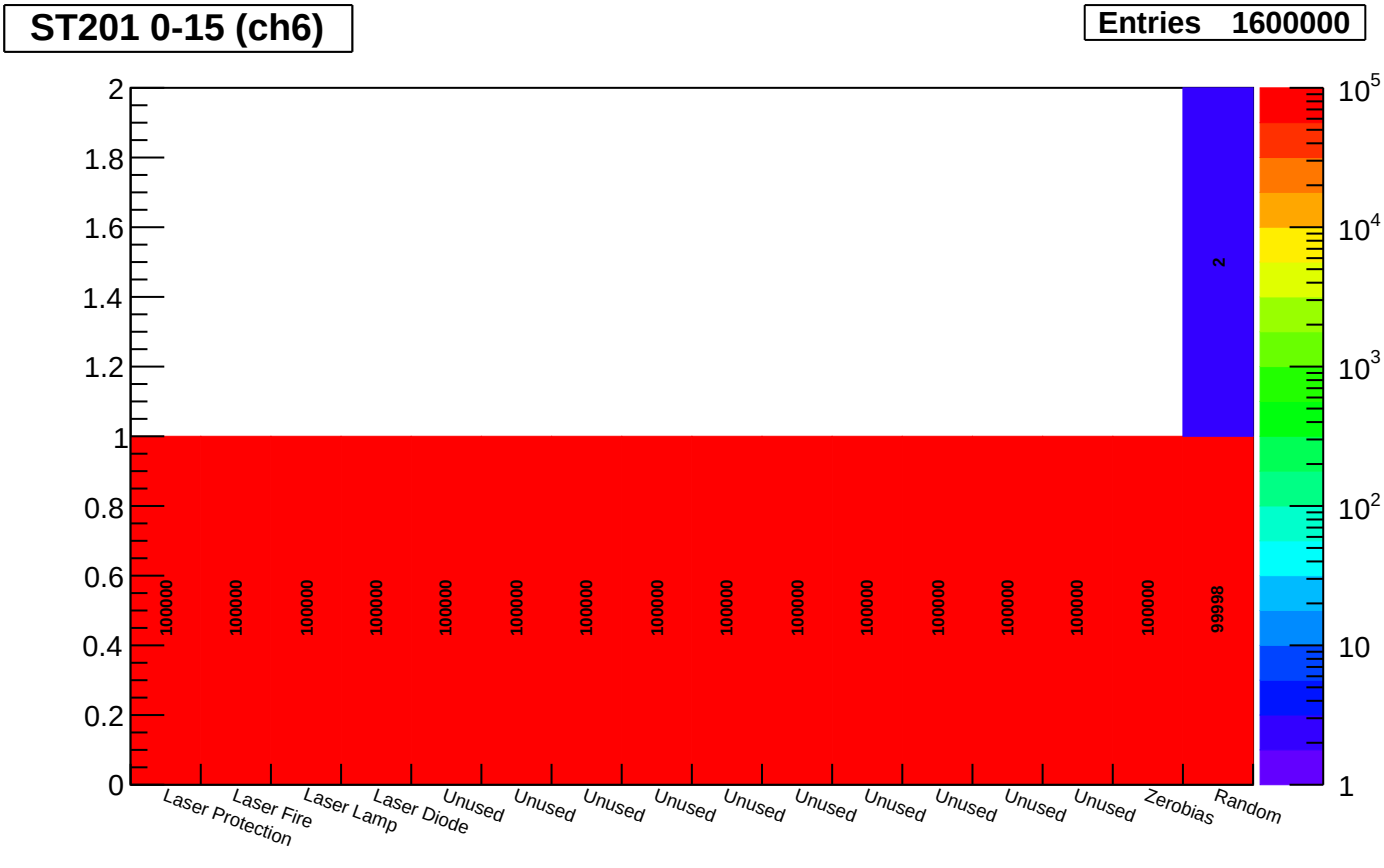

Entries 100000
ZDC TAC Diff
EPD TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

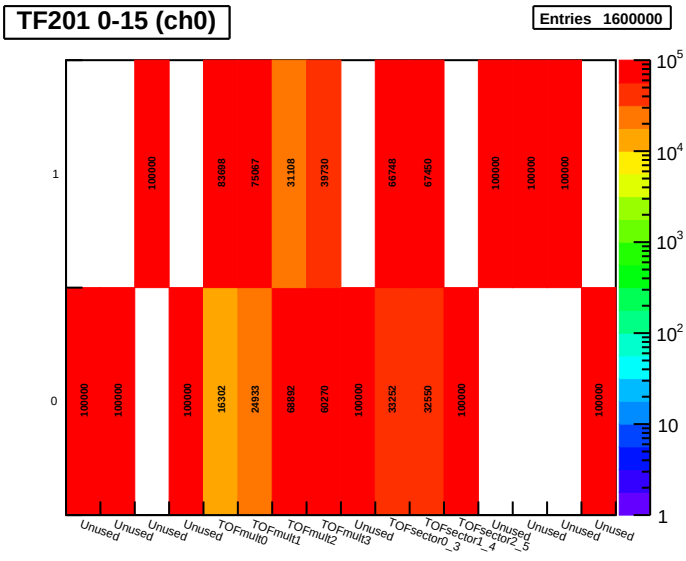

Entries 100000
ZDC TAC Diff
VPD TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

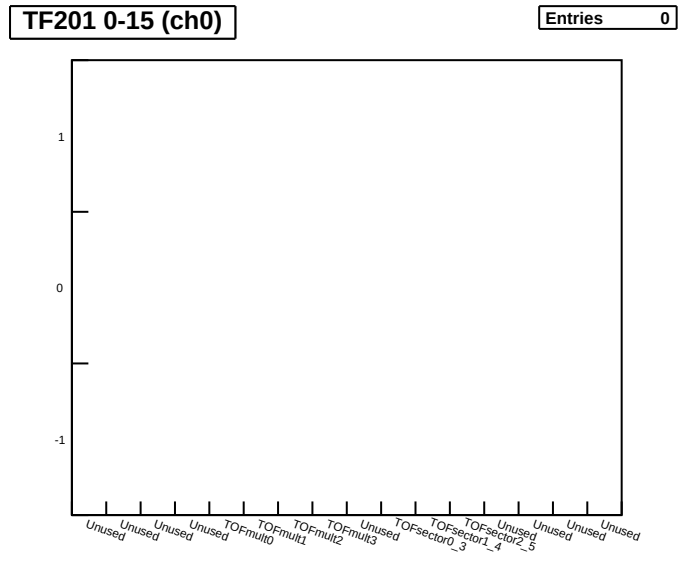

Entries 100000
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}

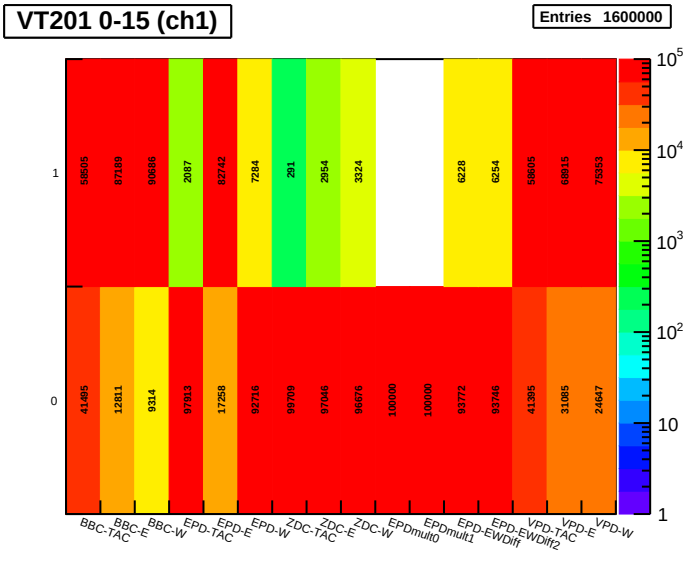

Entries 100000
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

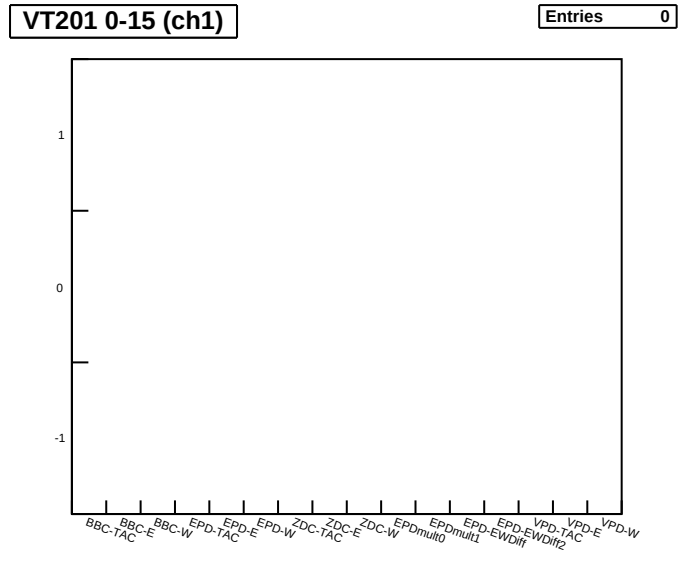

Laser Input Bits
Entries 100000
10^5
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

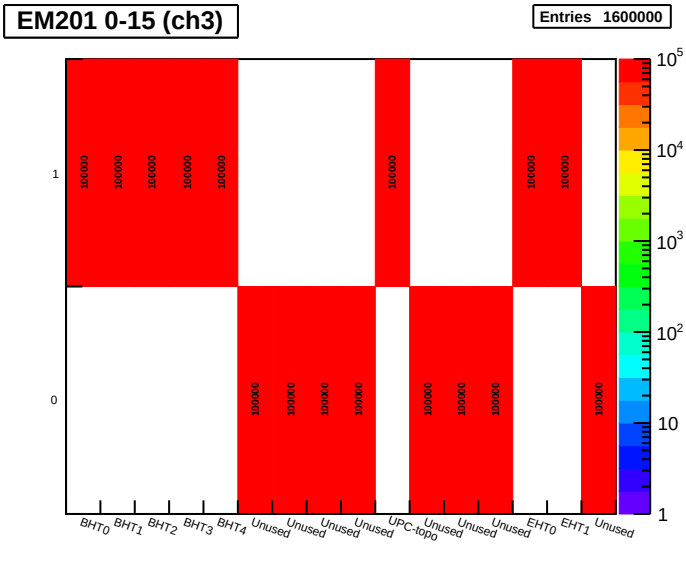

ST201 0-15 (ch6)
Entries 1600000
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100000
99998
2
10^5
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

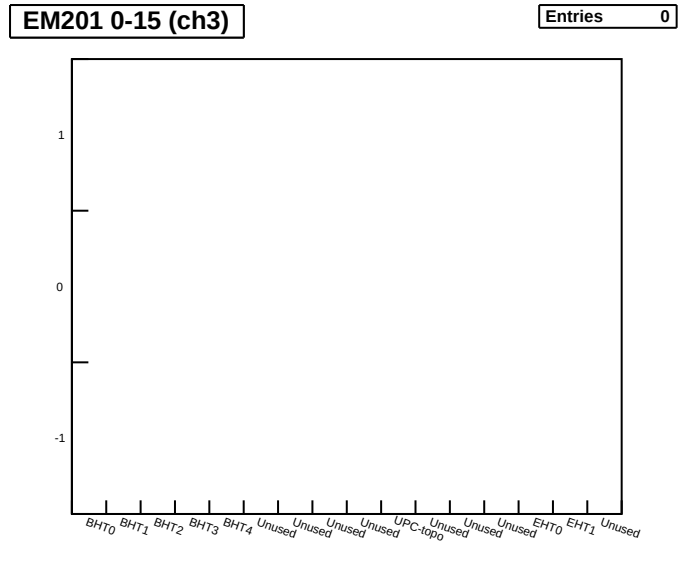

TF201 0-15 (ch0)
Entries 1600000
1
0
100000
83698
75067
31108
39730
66748
67450
100000
100000
100000
100000
100000
100000
16302
24933
68892
60270
100000
33252
32550
100000
100000
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
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 1600000
1
0
55505
87189
90686
2087
82742
7284
291
2954
3324
6228
6254
55605
68915
73353
41495
12811
9314
97913
17258
92716
99709
97046
96676
100000
100000
93772
93746
41395
31085
24647
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 1600000
1
0
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
100000
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