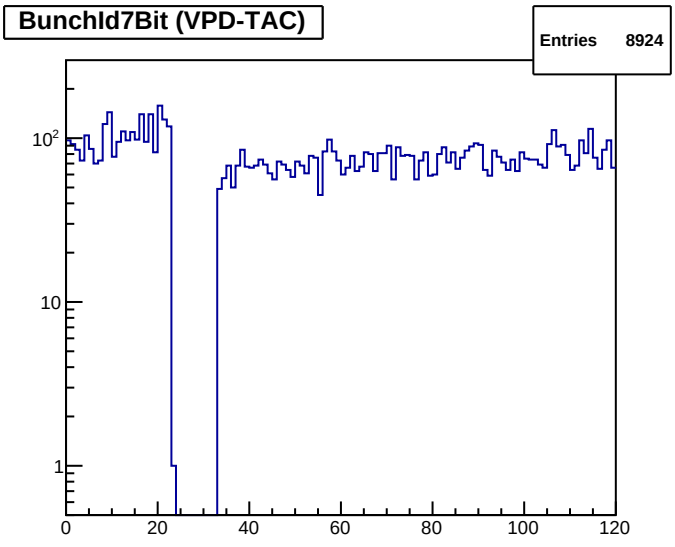
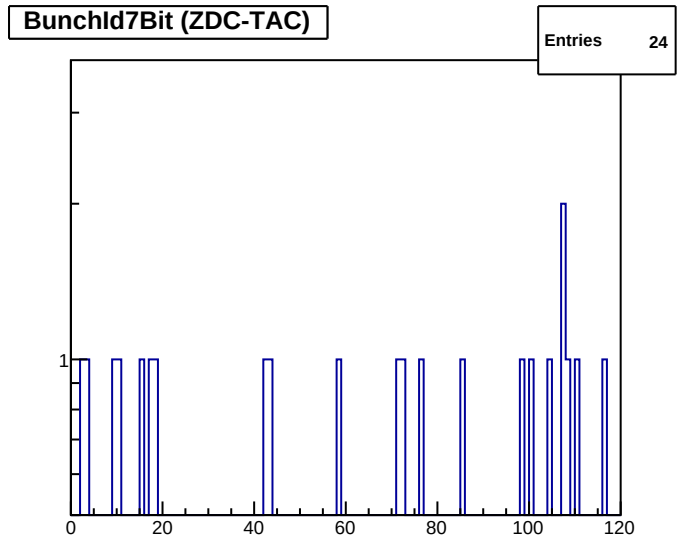
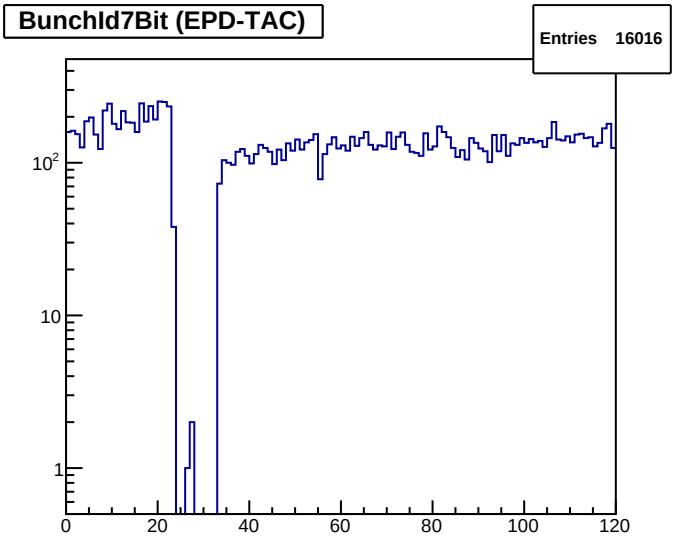
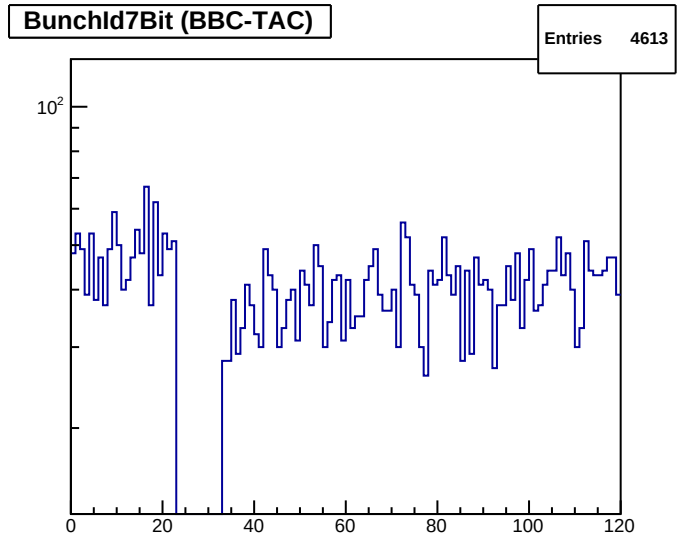
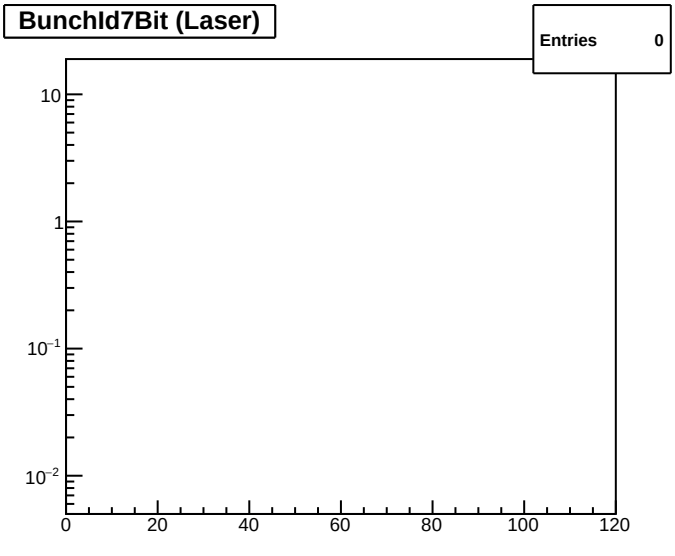
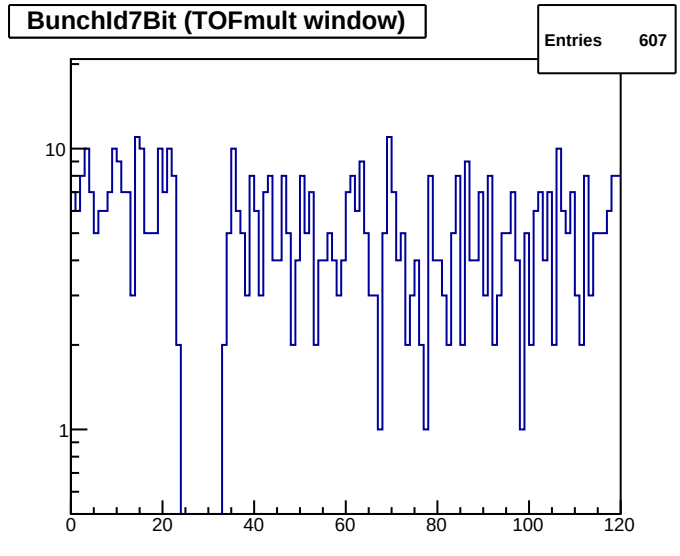

BunchId7Bit (VPD-TAC)
Entries 8924
10^2
10
1
0
20
40
60
80
100
120

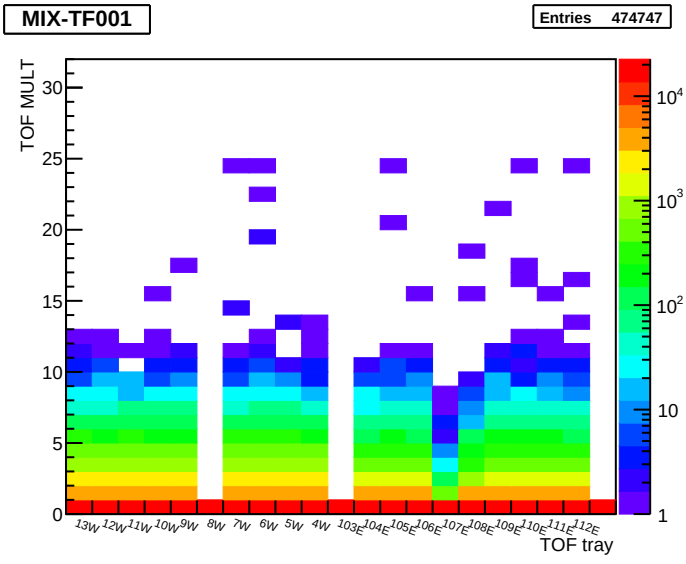

BunchId7Bit (ZDC-TAC)
Entries 24
1
0
20
40
60
80
100
120

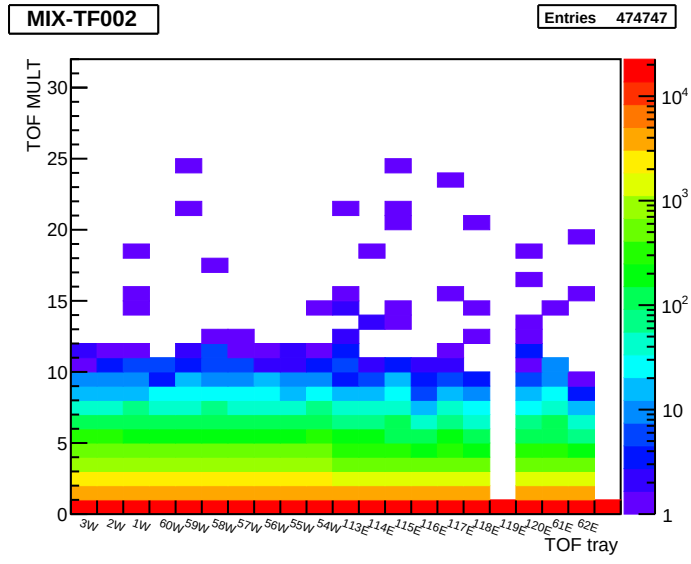

BunchId7Bit (EPD-TAC)
Entries 16016
10^2
10
1
0
20
40
60
80
100
120

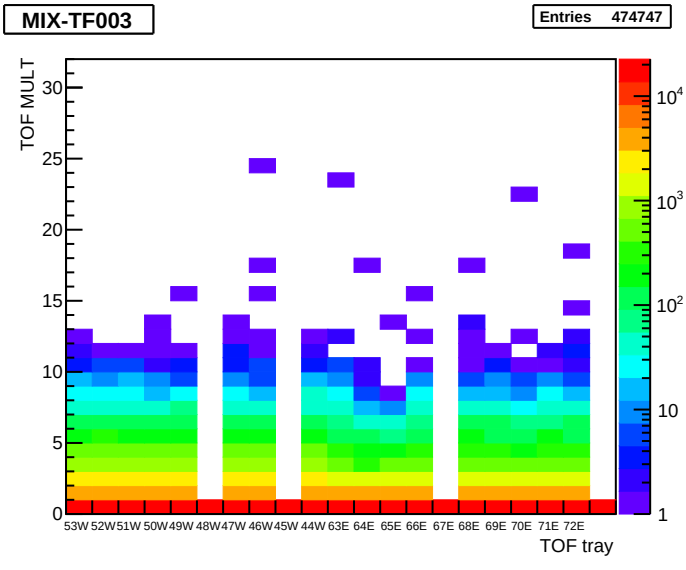

BunchId7Bit (BBC-TAC)
Entries 4613
10^2
0
20
40
60
80
100
120

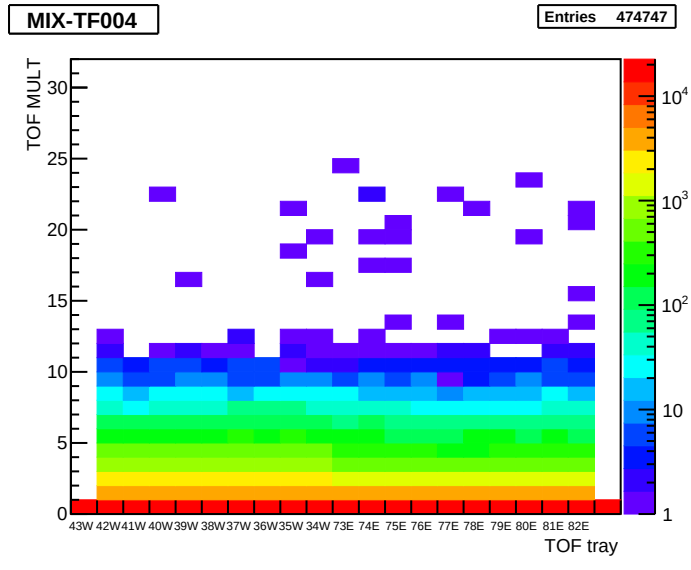

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

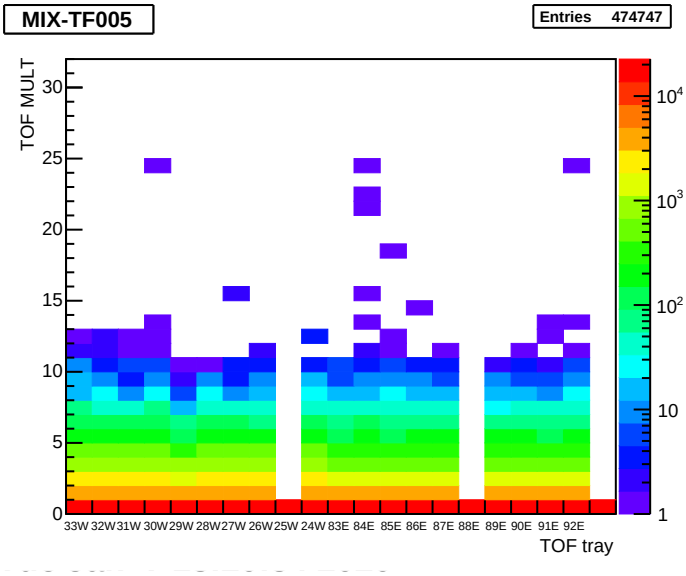

BunchId7Bit (TOFmult window)
Entries 607
10
1
0
20
40
60
80
100
120

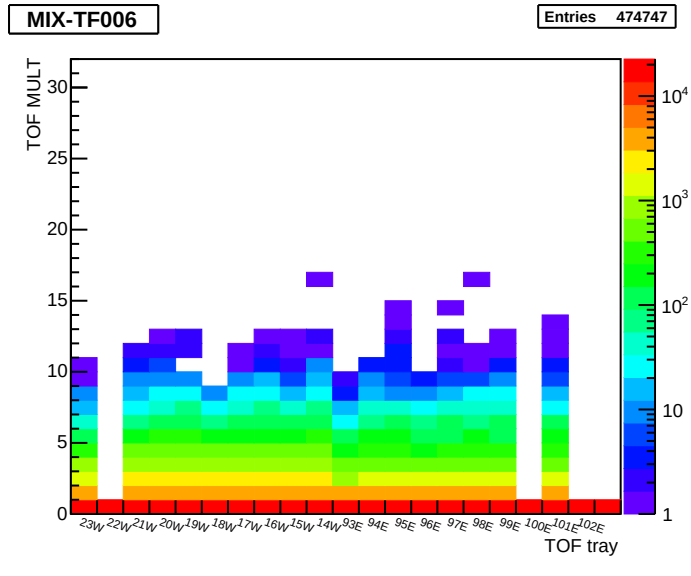

MIX-TF001
Entries 474747
TOF MULT
TOF tray

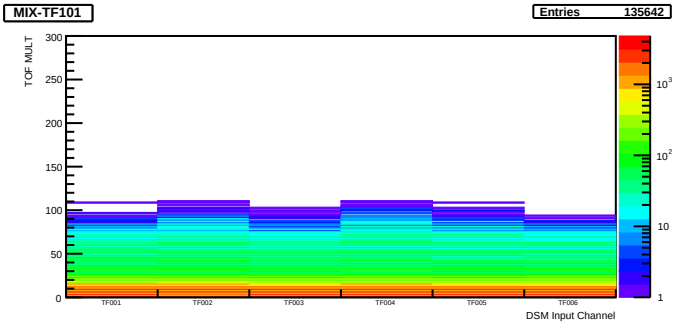

MIX-TF002
Entries 474747
TOF MULT
TOF tray

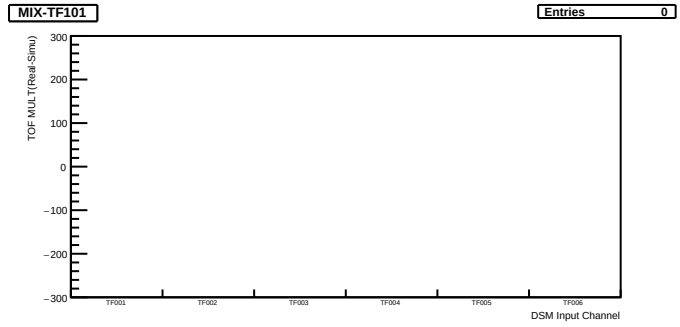

MIX-TF003
Entries 474747
TOF MULT
TOF tray

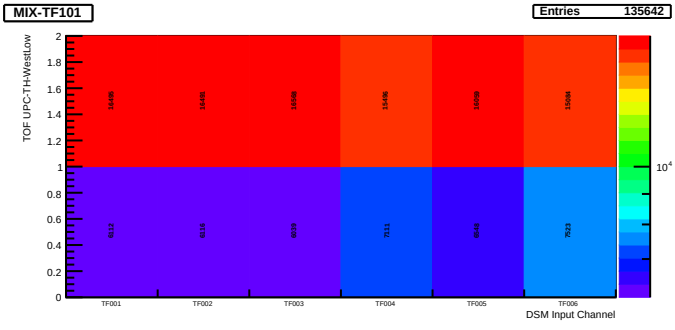

MIX-TF004
Entries 474747
TOF MULT
TOF tray

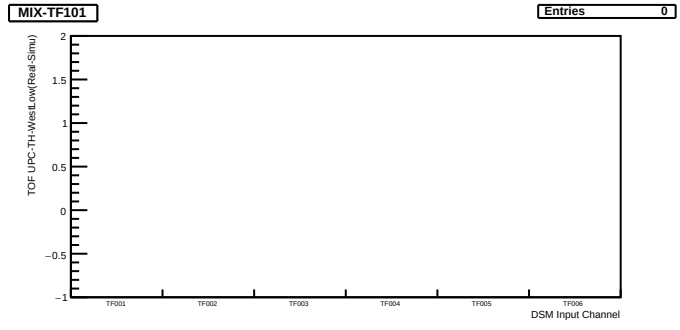

MIX-TF005
Entries 474747
TOF MULT
TOF tray

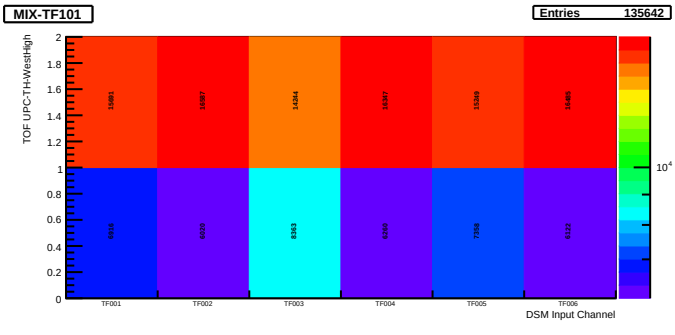

MIX-TF006
Entries 474747
TOF MULT
TOF tray

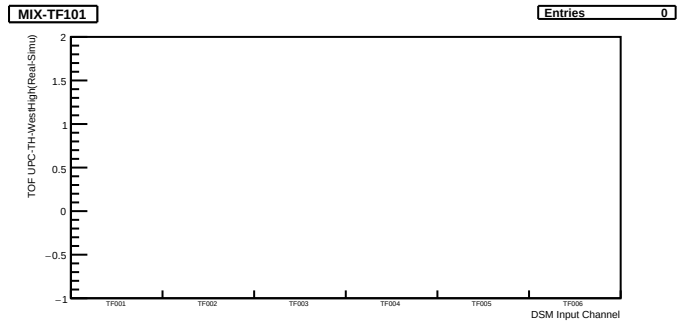

MIX-TF101
Entries 135642
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

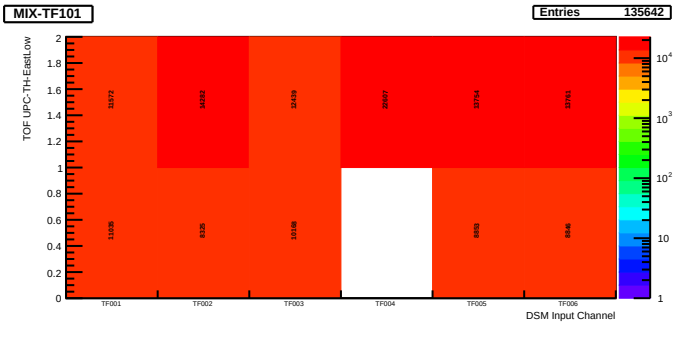

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

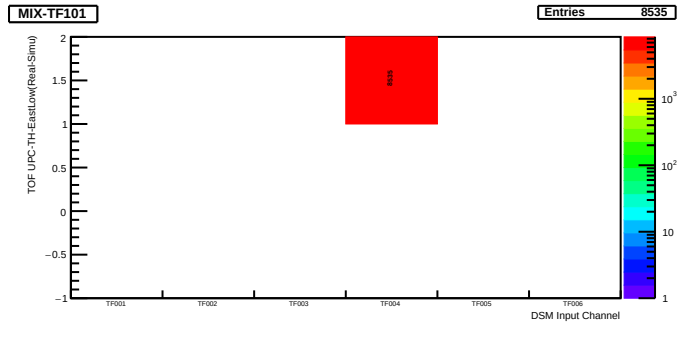

MIX-TF101
Entries 135642
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

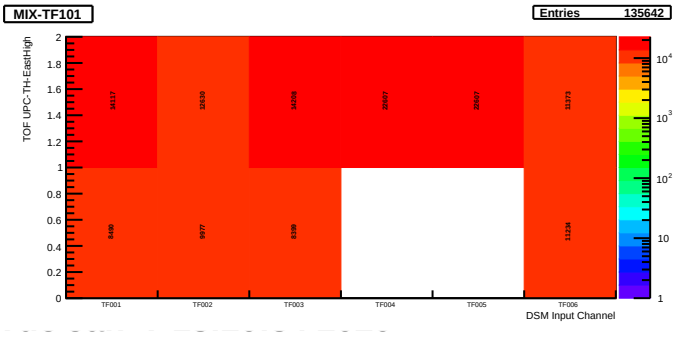

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

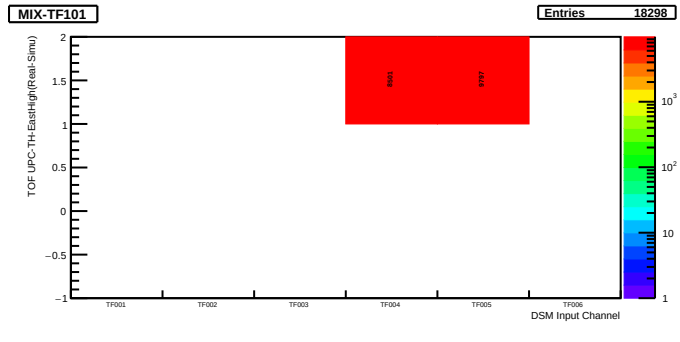

MIX-TF101
Entries 135642
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

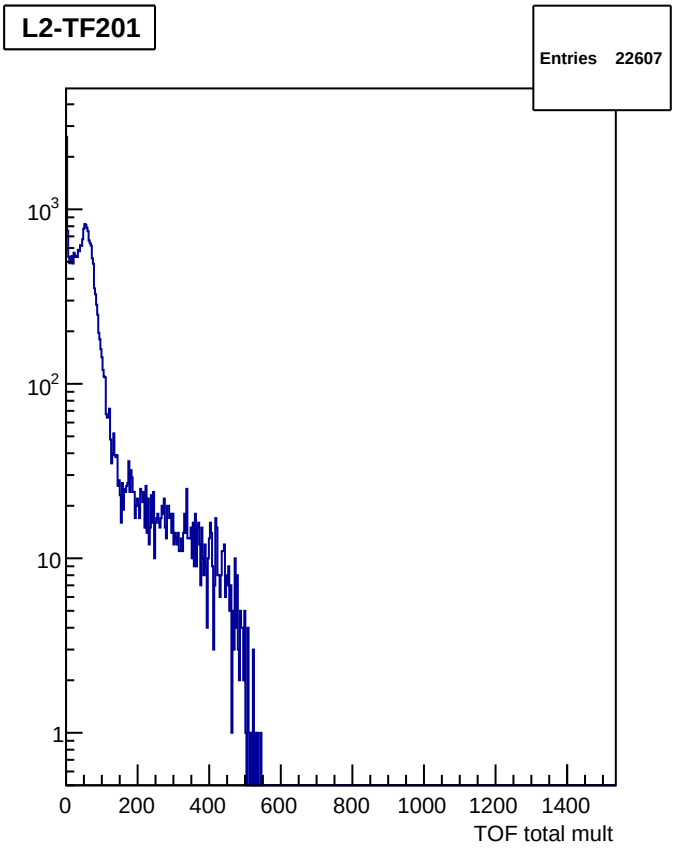

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

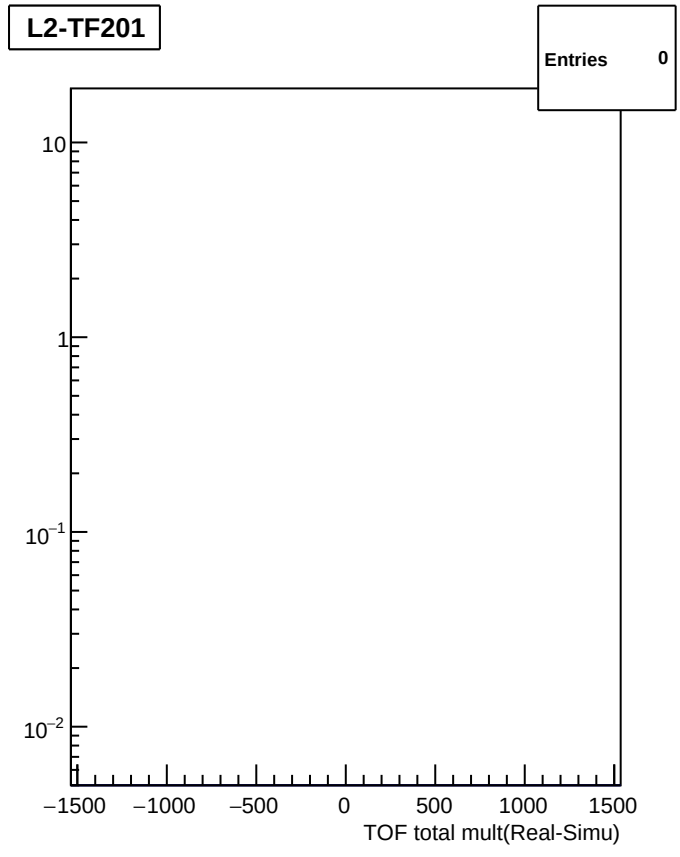

MIX-TF101
Entries 135642
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

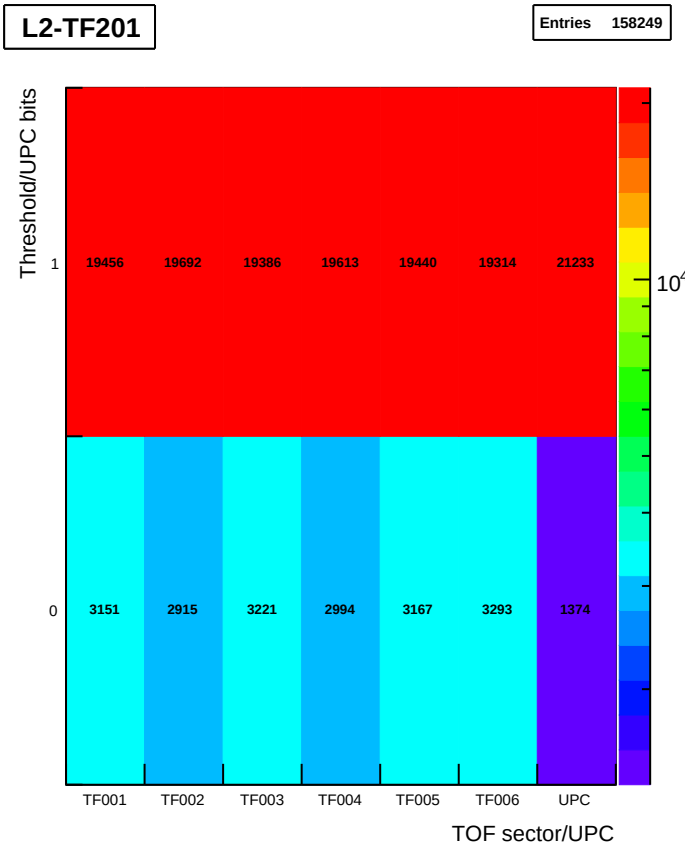

MIX-TF101
Entries 8535
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

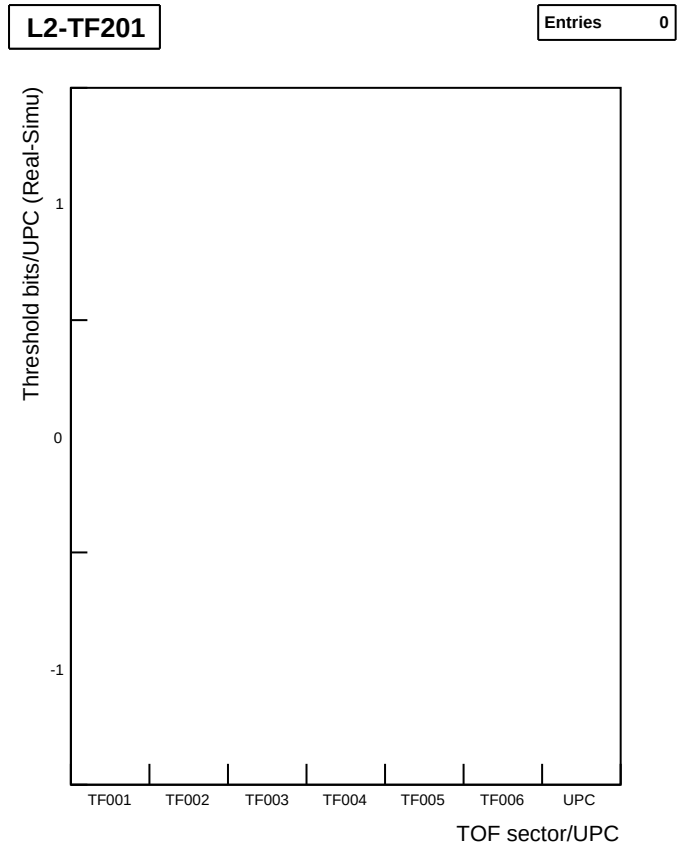

MIX-TF101
Entries 135642
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

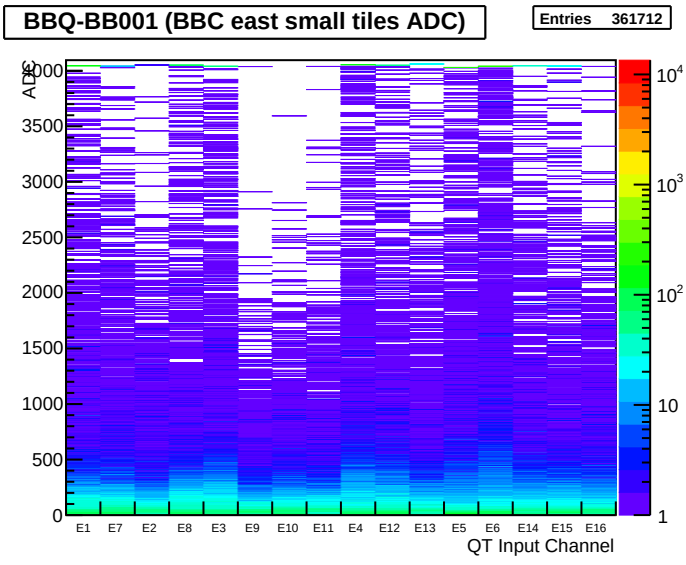

MIX-TF101
Entries 18298
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

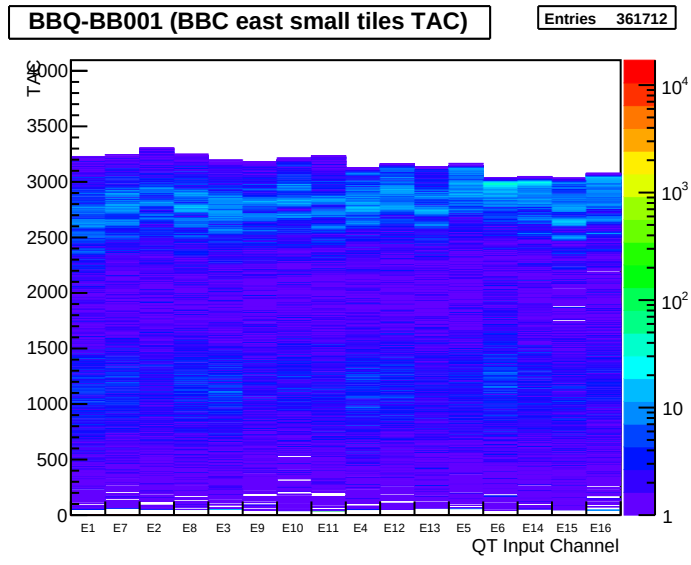

L2-TF201
Entries 22607
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

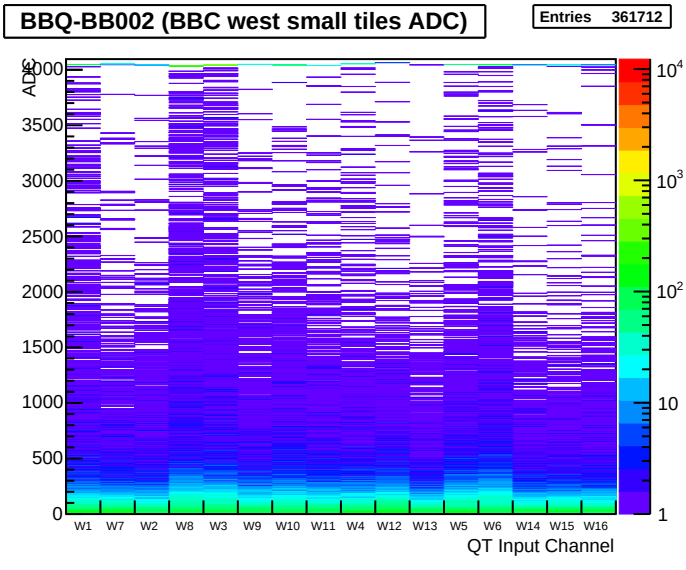

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

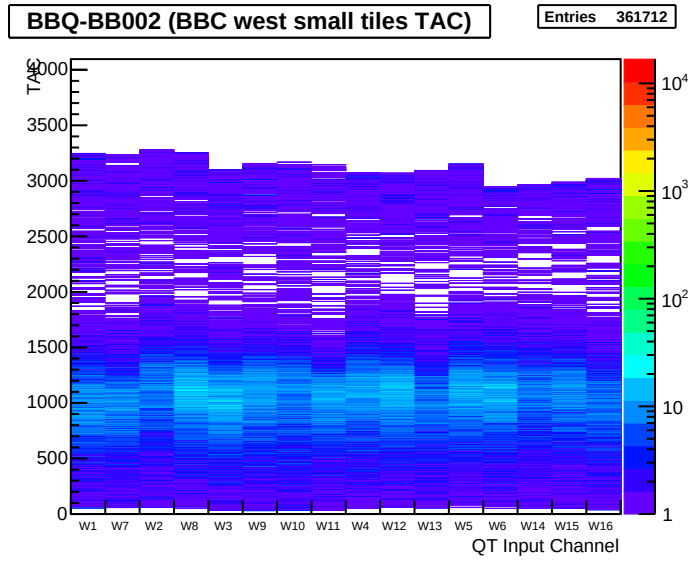

L2-TF201
Entries 158249
Threshold/UPC bits
1
0
19456
19692
19386
19613
19440
19314
21233
3151
2915
3221
2994
3167
3293
1374
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

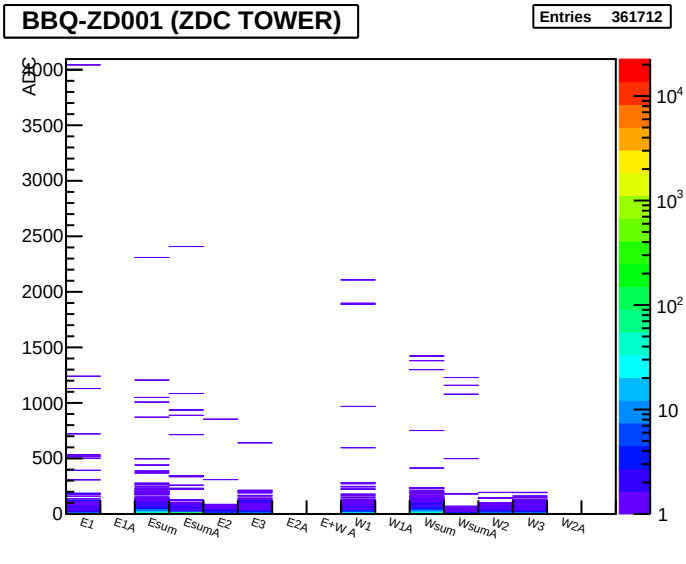

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

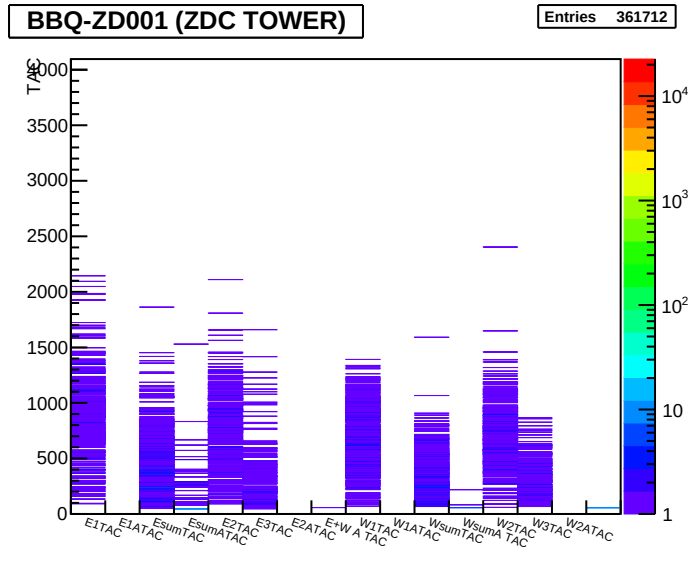

BBQ-BB001 (BBC east small tiles ADC)
Entries 361712
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

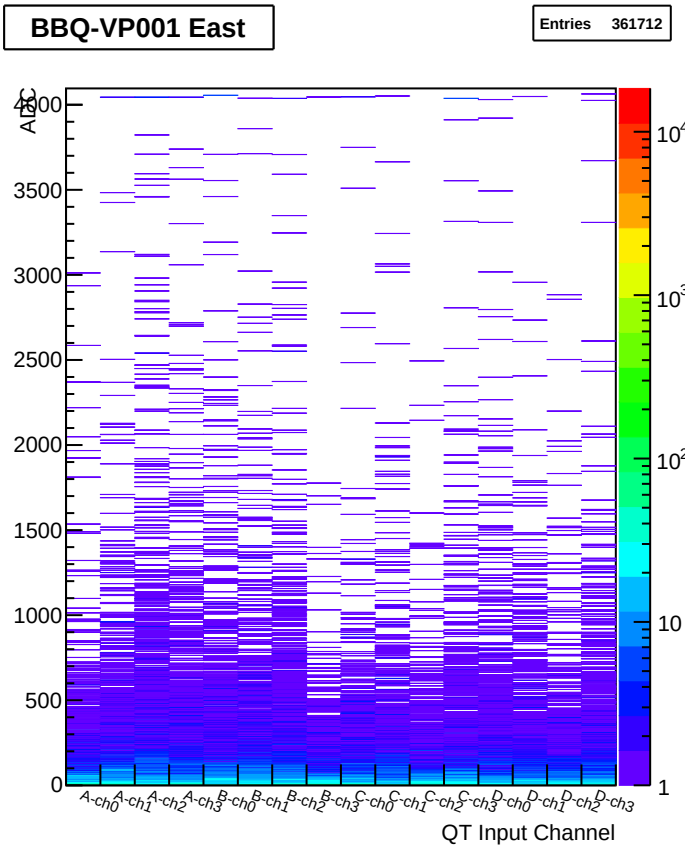

BBQ-BB001 (BBC east small tiles TAC)
Entries 361712
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

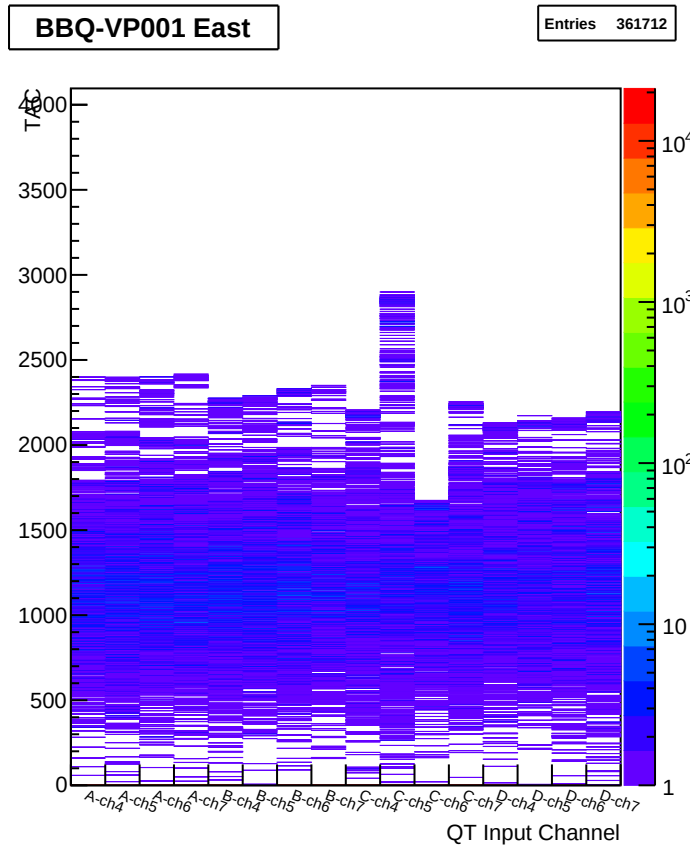

BBQ-BB002 (BBC west small tiles ADC)
Entries 361712
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

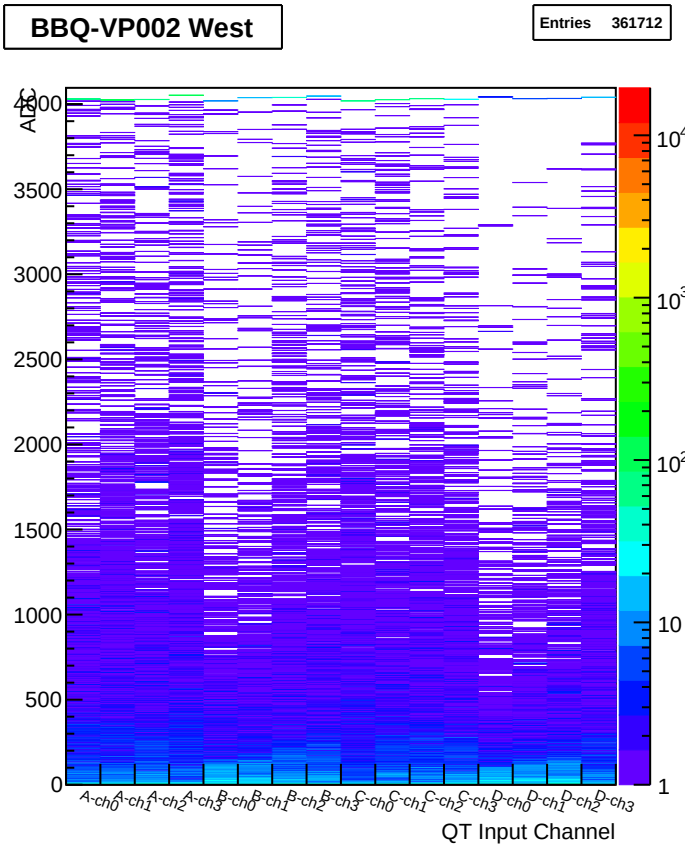

BBQ-BB002 (BBC west small tiles TAC)
Entries 361712
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

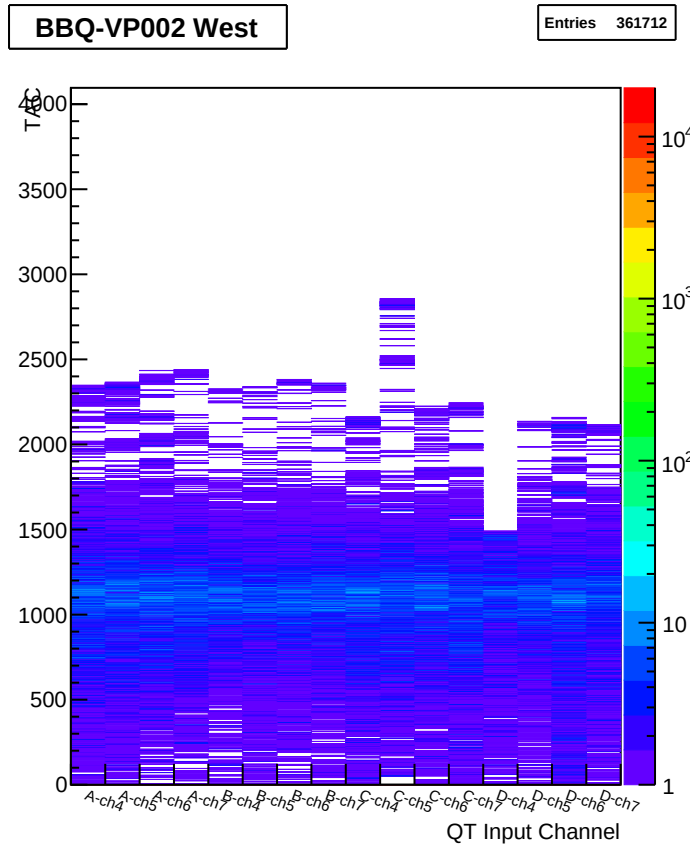

BBQ-ZD001 (ZDC TOWER)
Entries 361712
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

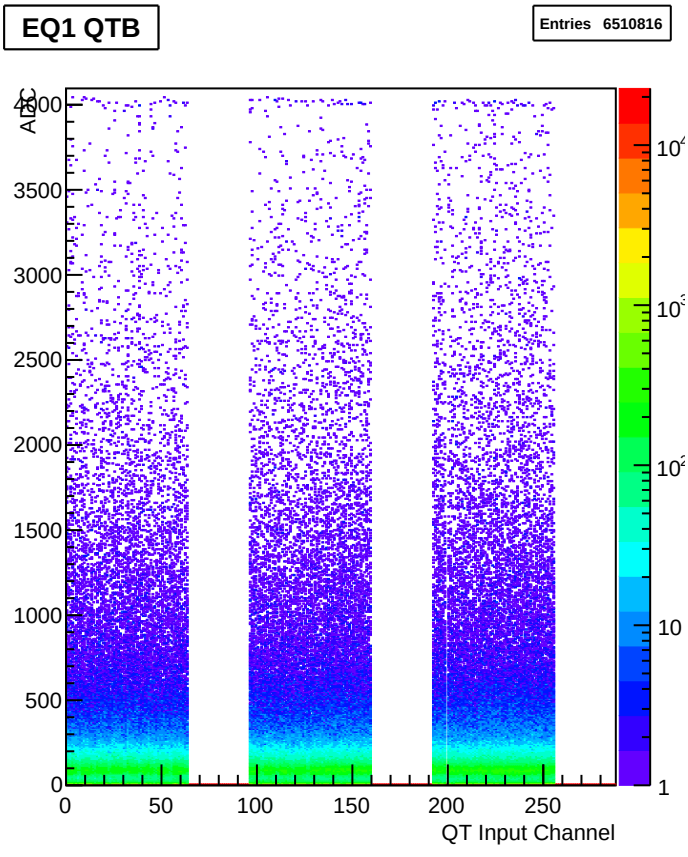

BBQ-ZD001 (ZDC TOWER)
Entries 361712
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

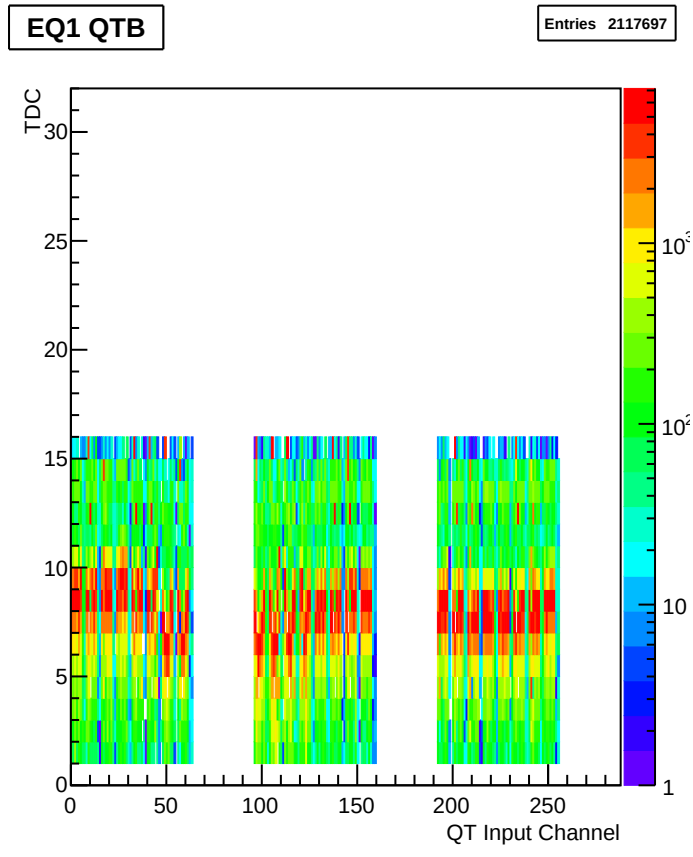

BBQ-VP001 East
Entries 361712
ADC
QT Input Channel

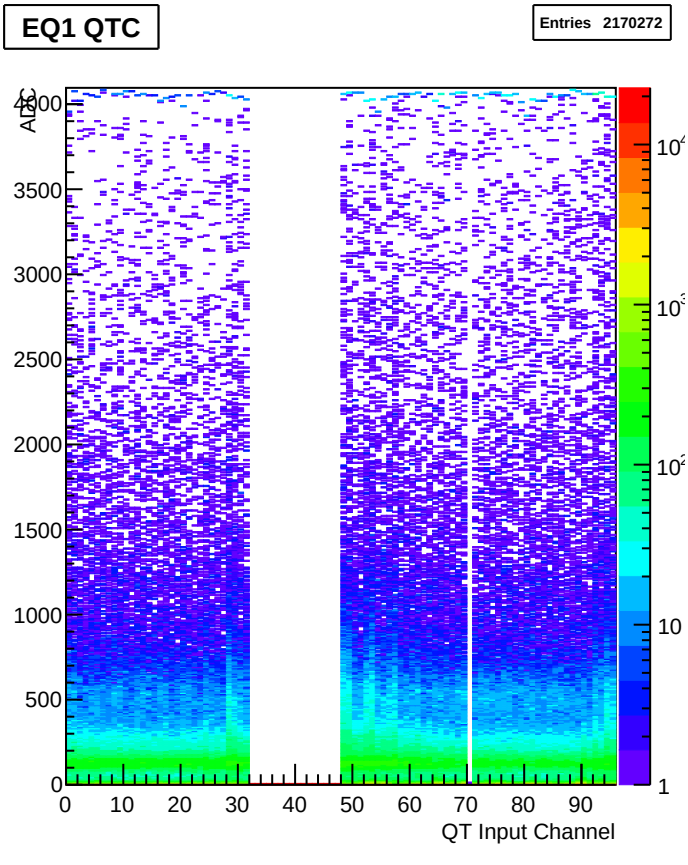

BBQ-VP001 East
Entries 361712
TADC
QT Input Channel

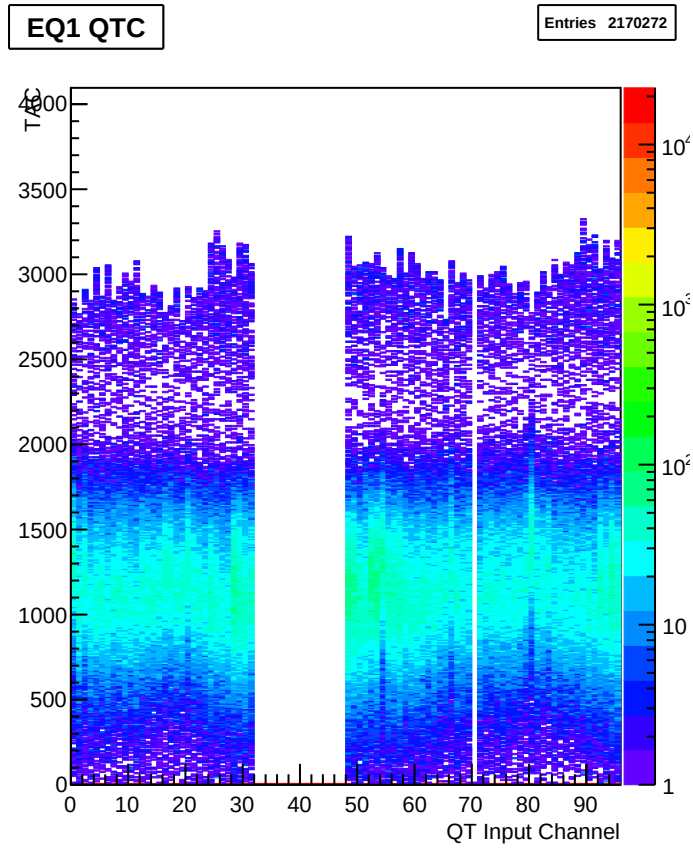

BBQ-VP002 West
Entries 361712
ADC
QT Input Channel

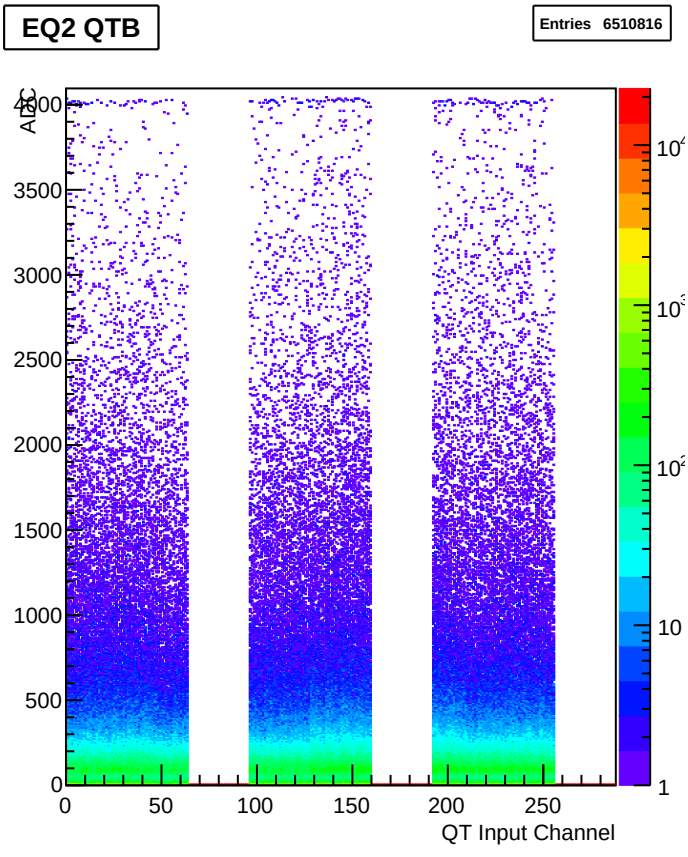

BBQ-VP002 West
Entries 361712
TADC
QT Input Channel

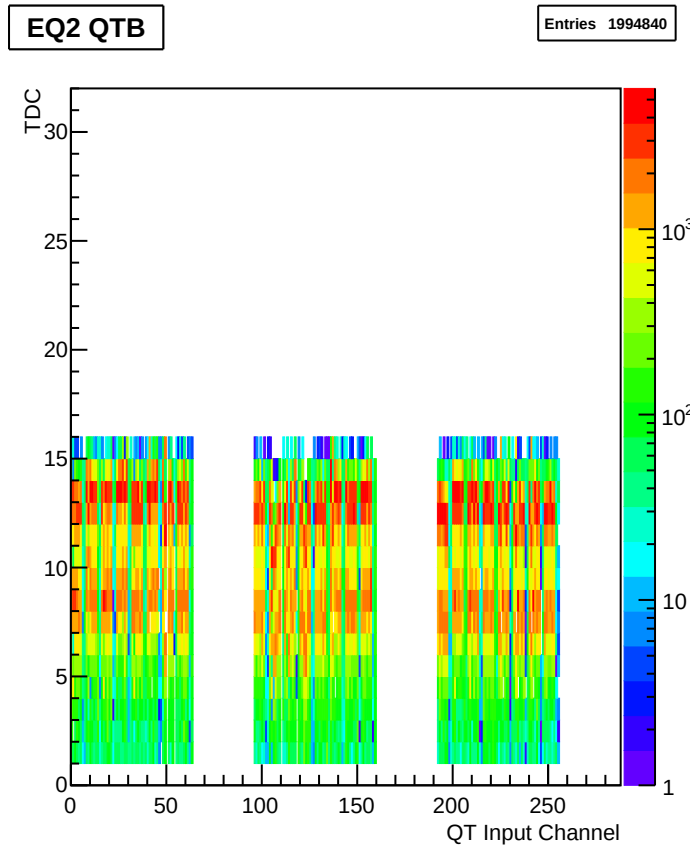

EQ1 QTB
Entries 6510816
ADC
QT Input Channel

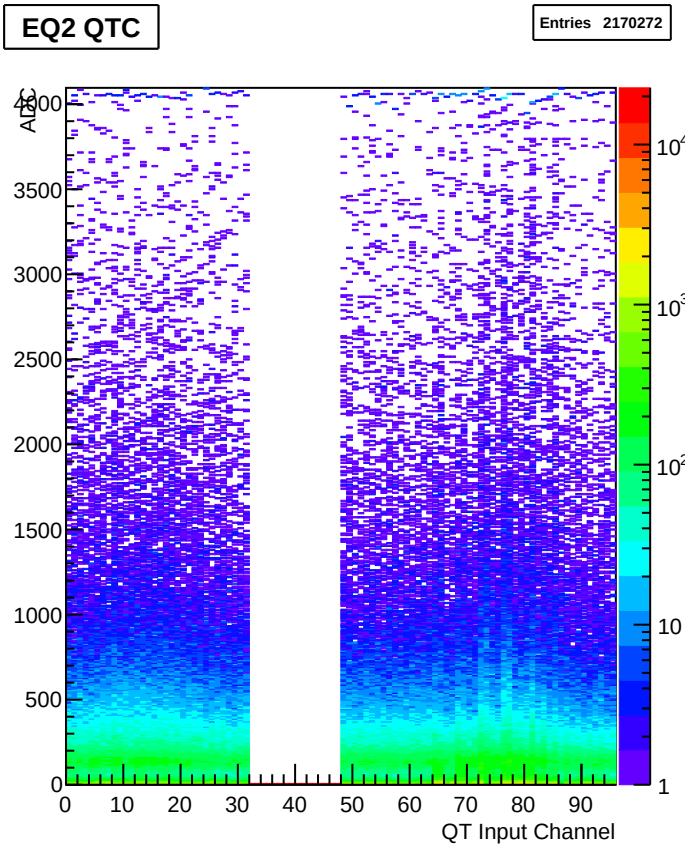

EQ1 QTB
Entries 2117697
TDC
QT Input Channel

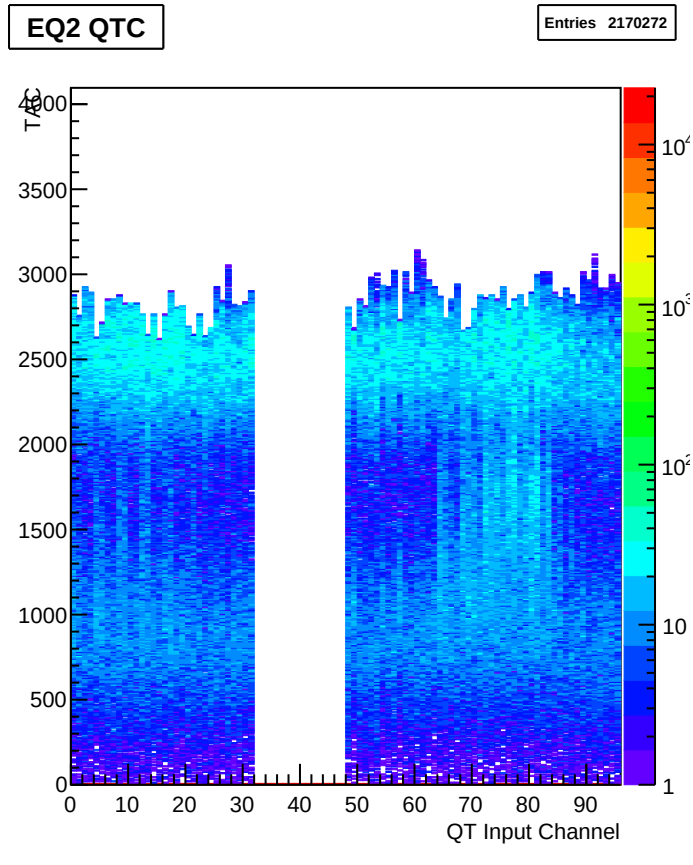

EQ1 QTC
Entries 2170272
ADC
QT Input Channel

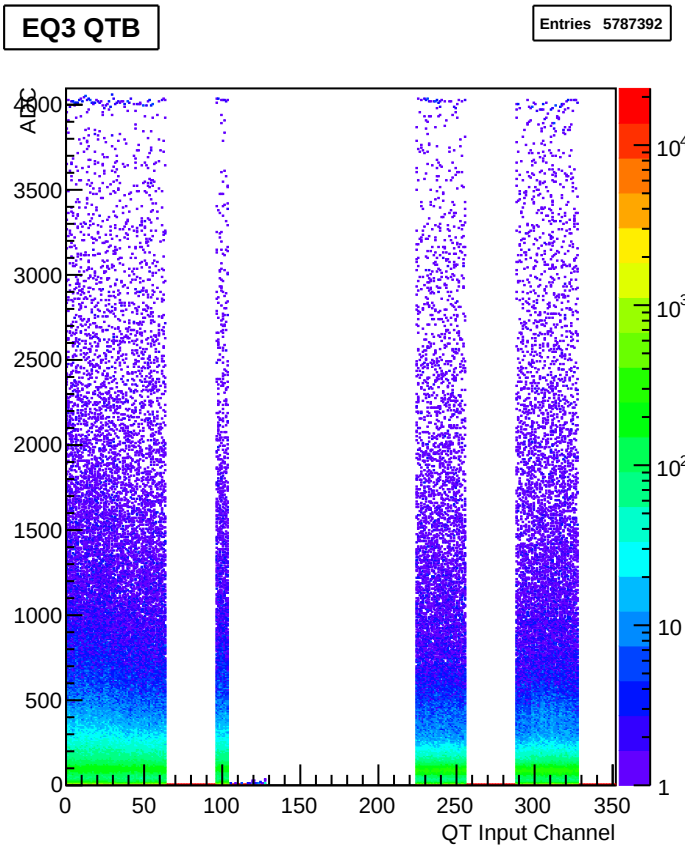

EQ1 QTC
Entries 2170272
TADC
QT Input Channel

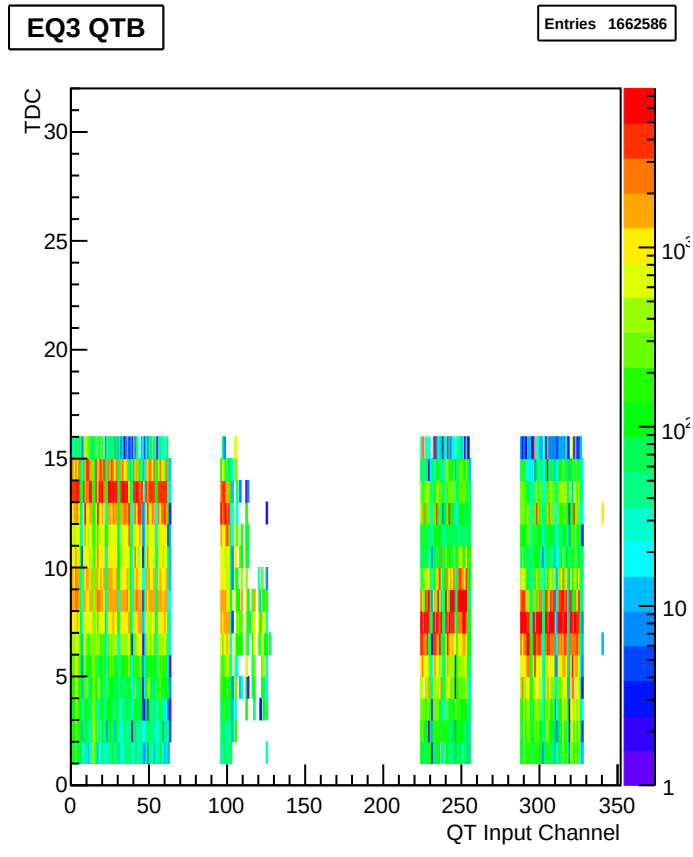

EQ2 QTB
Entries 6510816
ADC
QT Input Channel

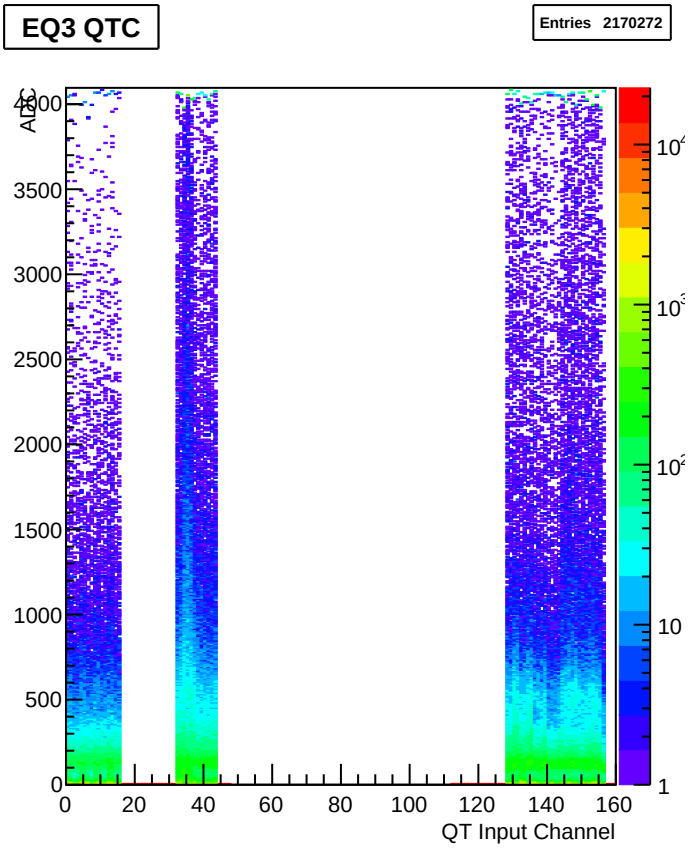

EQ2 QTB
Entries 1994840
TDC
QT Input Channel

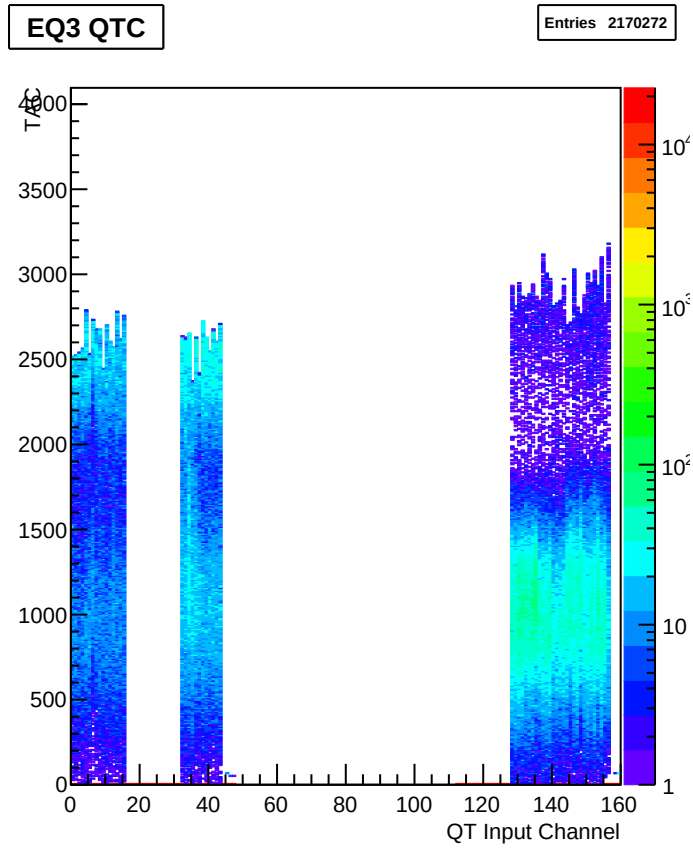

EQ2 QTC
Entries 2170272
ADC
QT Input Channel

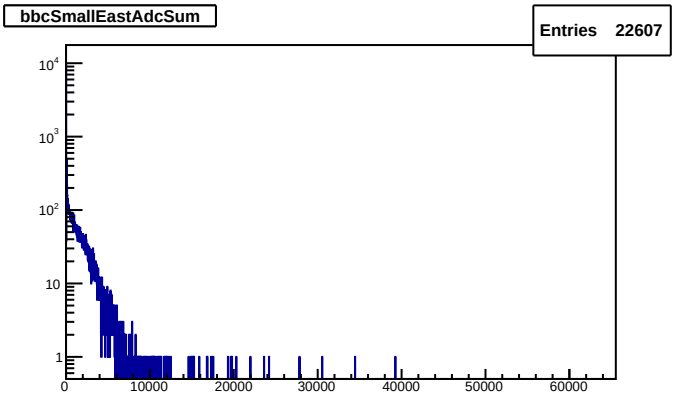

EQ2 QTC
Entries 2170272
TADC
QT Input Channel

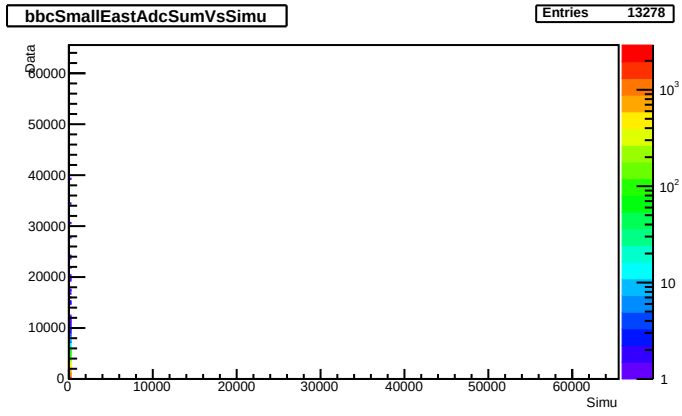

EQ3 QTB
Entries 5787392
ADC
QT Input Channel

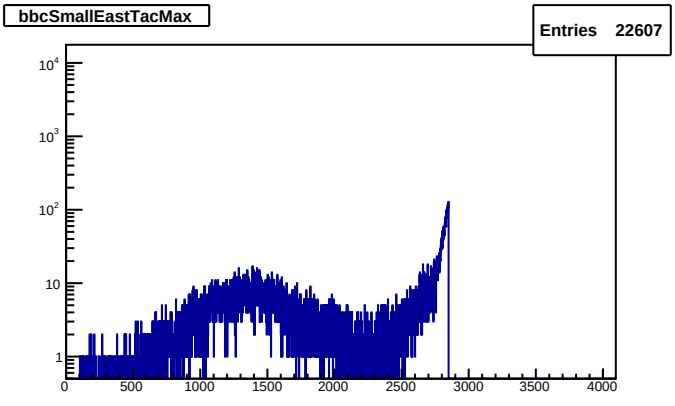

EQ3 QTB
Entries 1662586
TDC
QT Input Channel

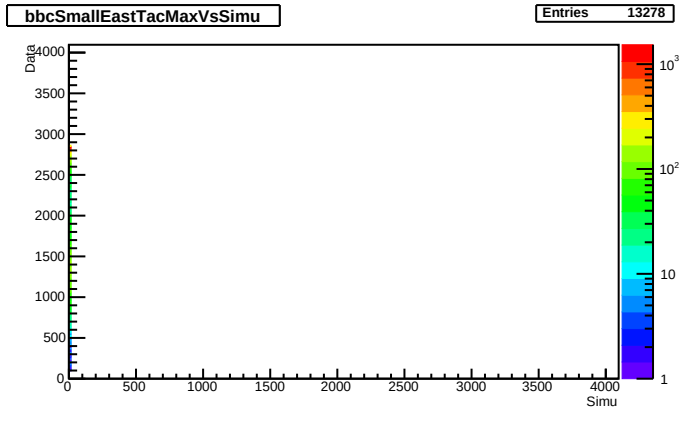

EQ3 QTC
Entries 2170272
ADC
QT Input Channel

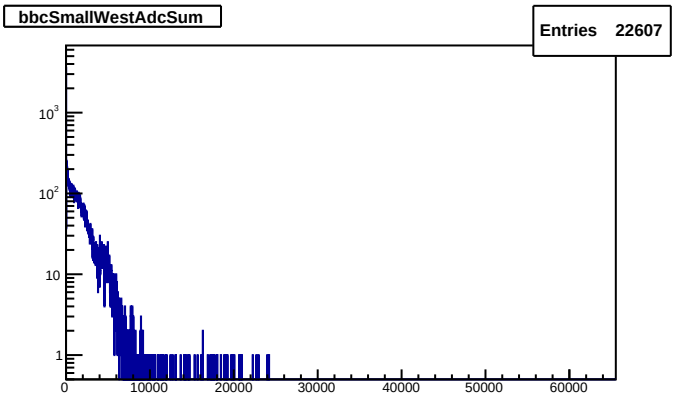

EQ3 QTC
Entries 2170272
TADC
QT Input Channel

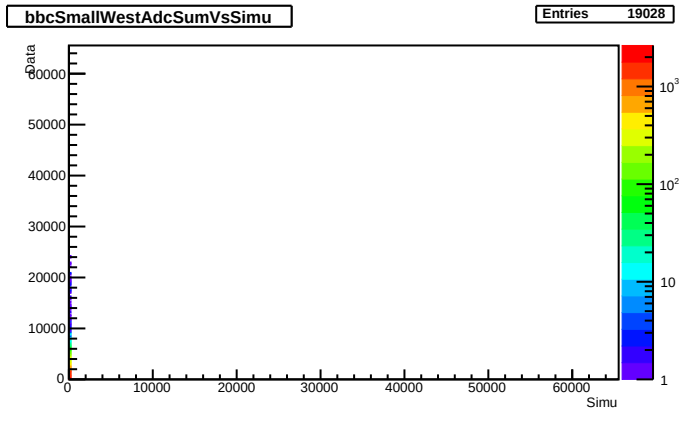

bbcSmallEastAdcSum
Entries 22607

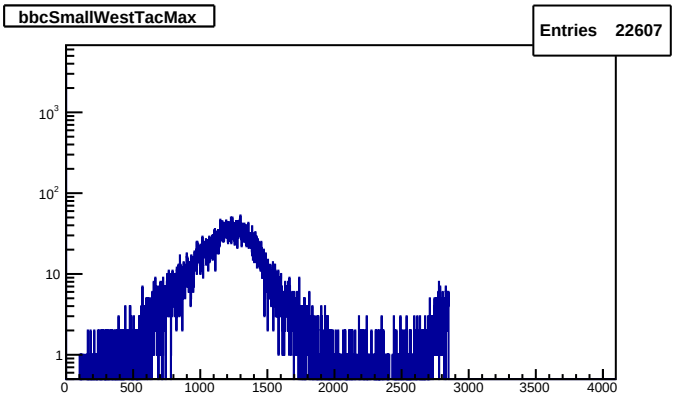

bbcSmallEastAdcSumVsSimu
Entries 13278
Data
Simu

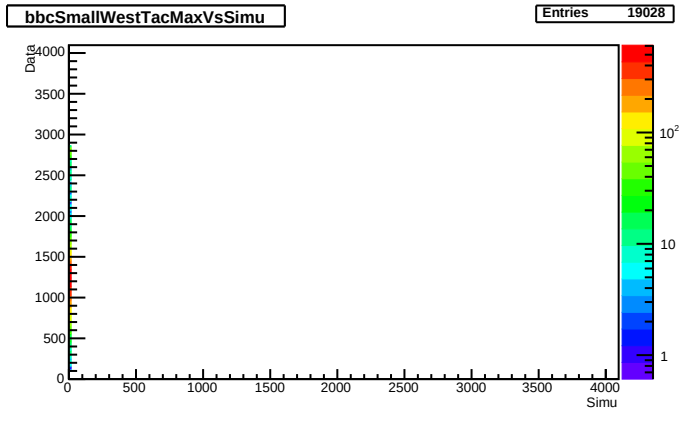

bbcSmallEastTacMax
Entries 22607

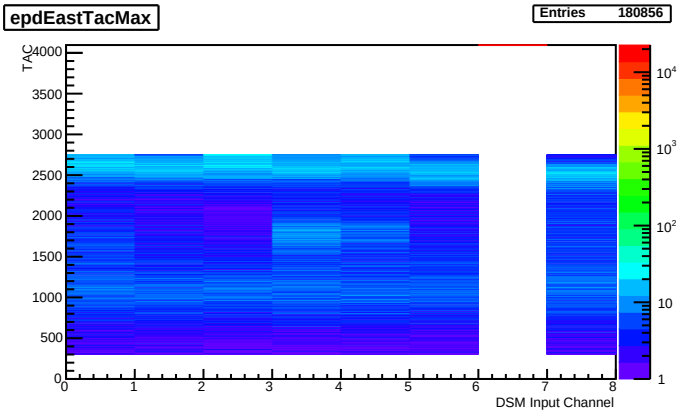

bbcSmallEastTacMaxVsSimu
Entries 13278
Data
Simu

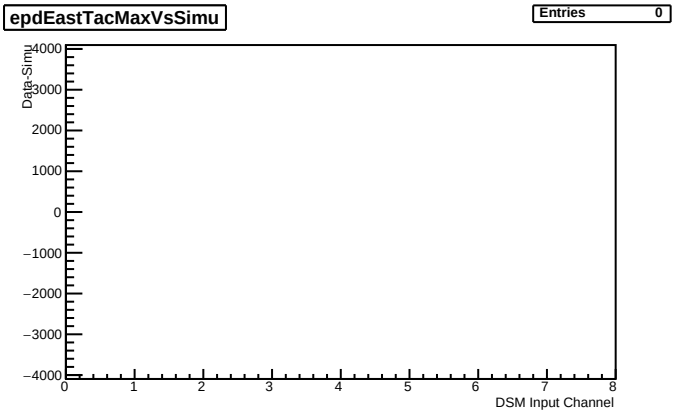

bbcSmallWestAdcSum
Entries 22607

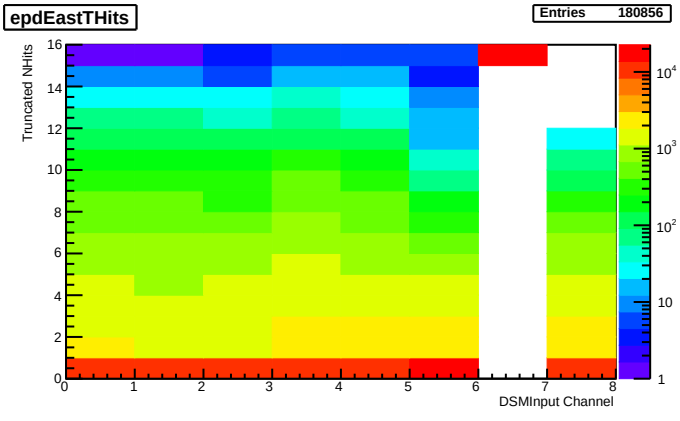

bbcSmallWestAdcSumVsSimu
Entries 19028
Data
Simu

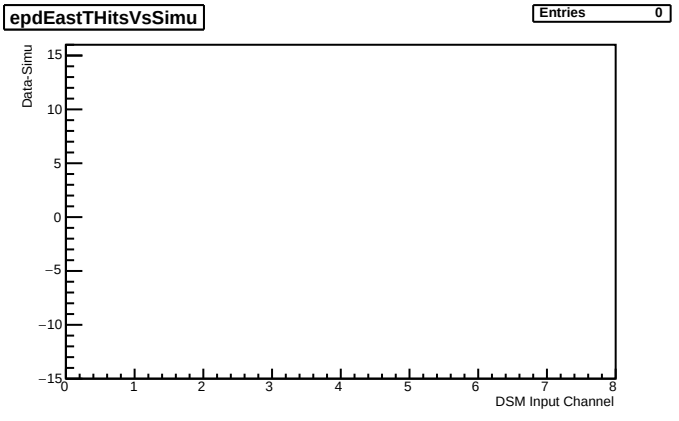

bbcSmallWestTacMax
Entries 22607


bbcSmallWestTacMaxVsSimu
Entries 19028
Data
Simu


epdEastTacMax
Entries 180856
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 180856
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
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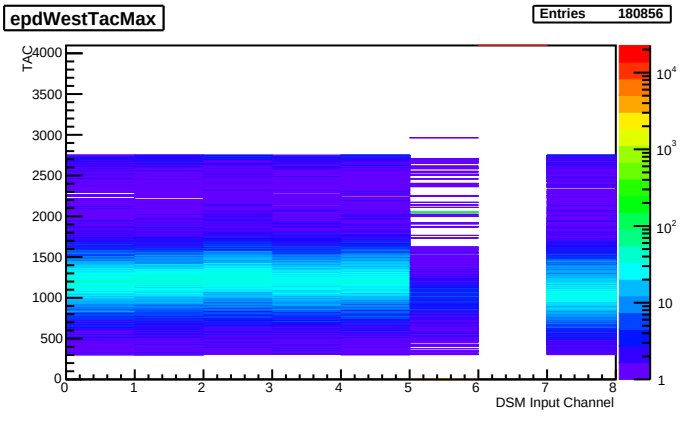
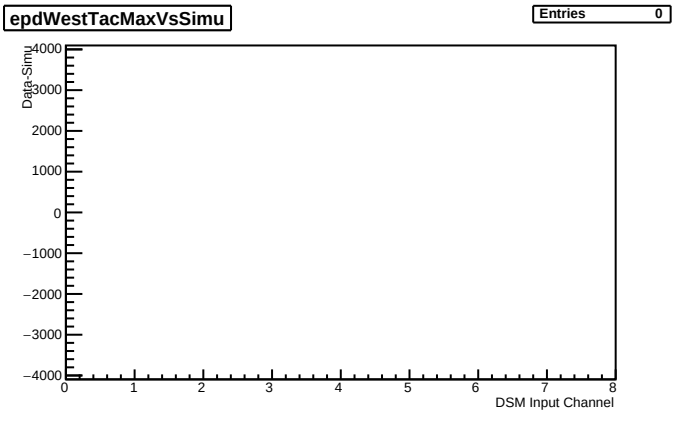
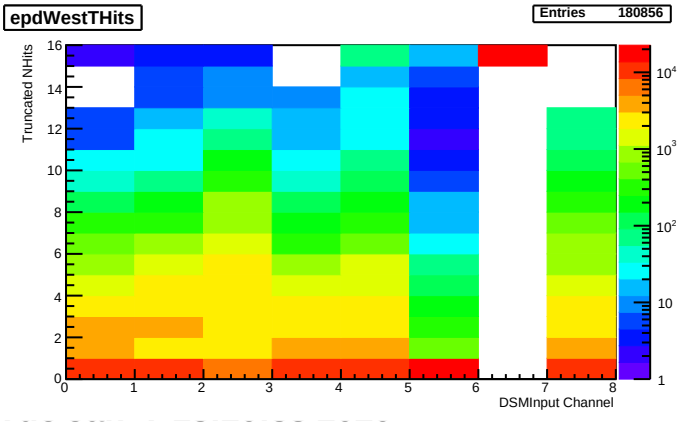
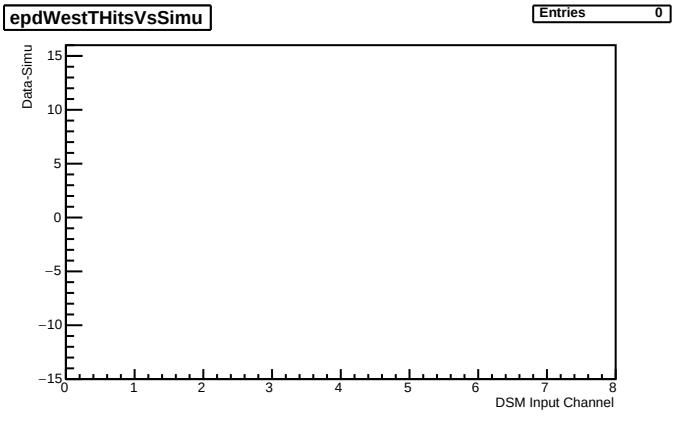
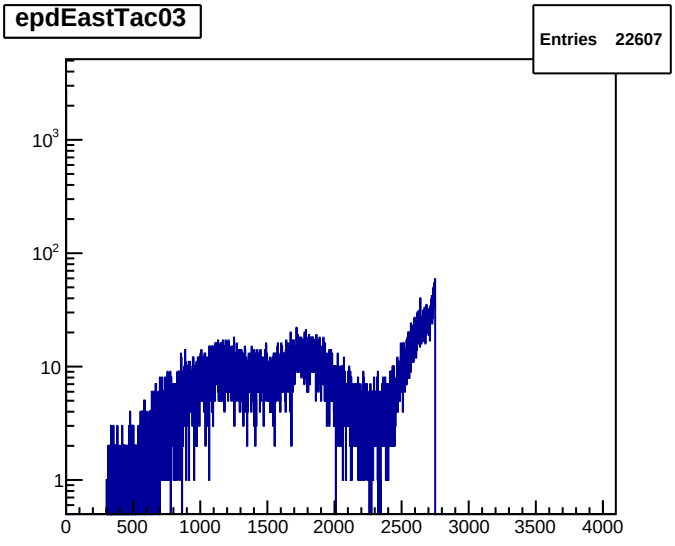
Data-Simu
DSM Input Channel

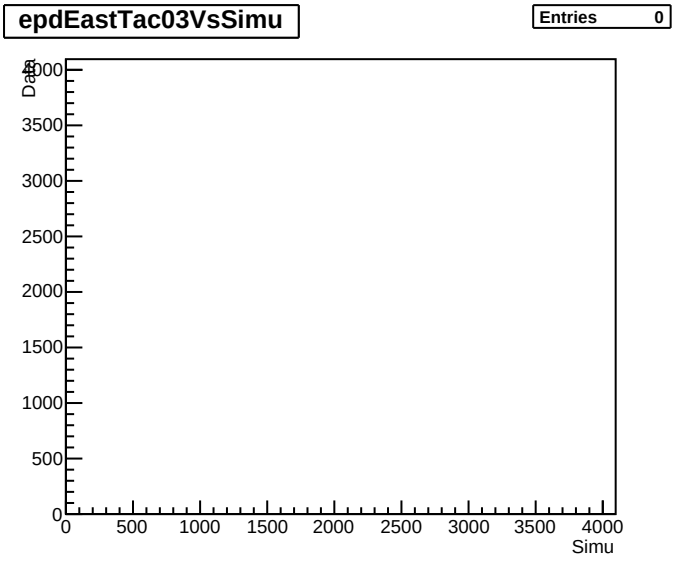

epdWestTacMax
Entries 180856
TAC
DSM Input Channel

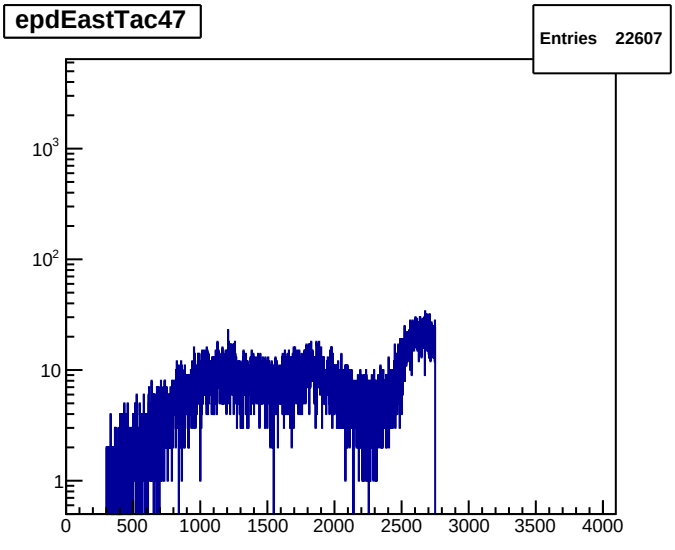

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

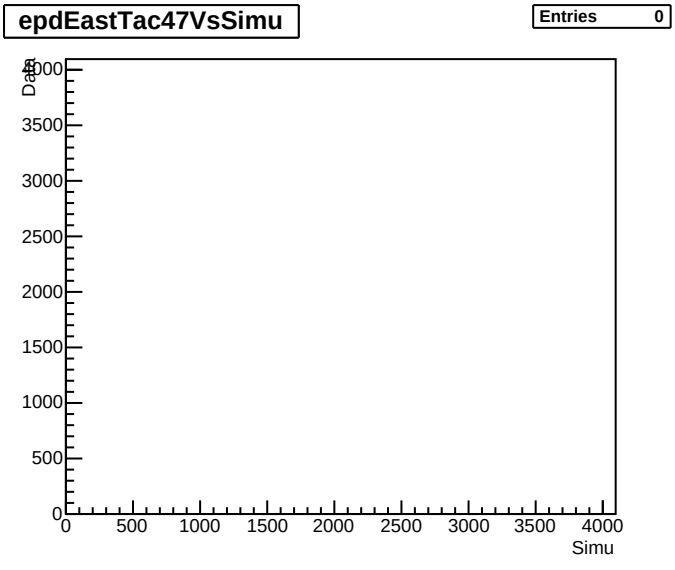

epdWestTHits
Entries 180856
Truncated NHits
DSMInput Channel

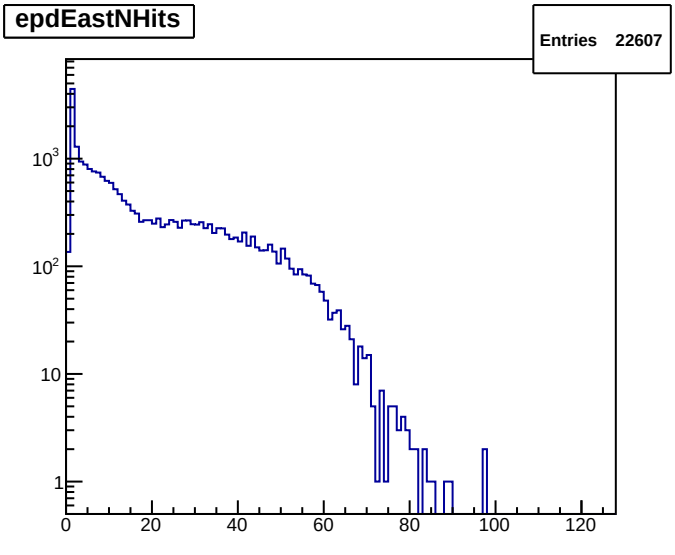

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

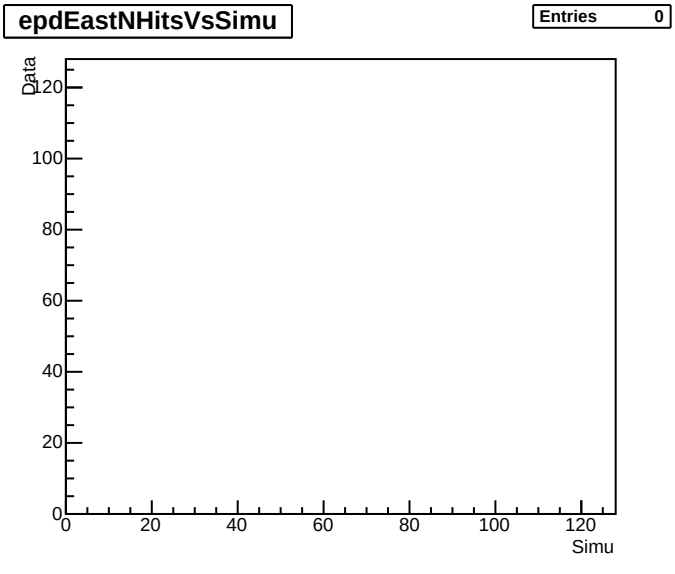

epdEastTac03
Entries 22607


epdEastTac03VsSimu
Entries 0
Data
Simu


epdEastTac47
Entries 22607


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 22607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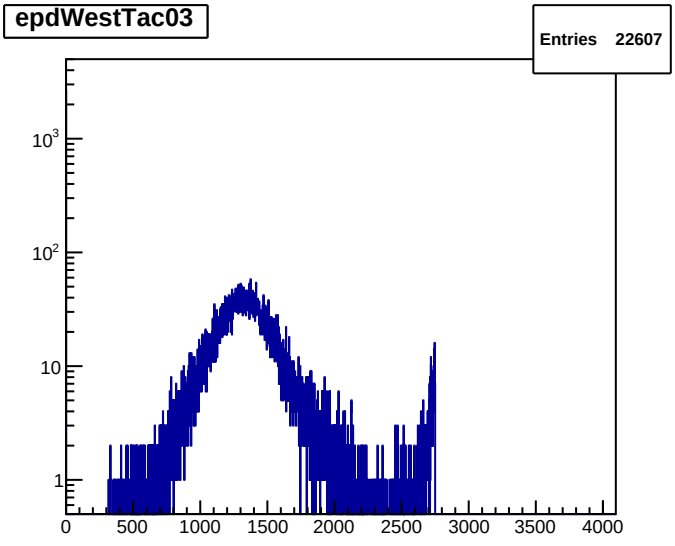
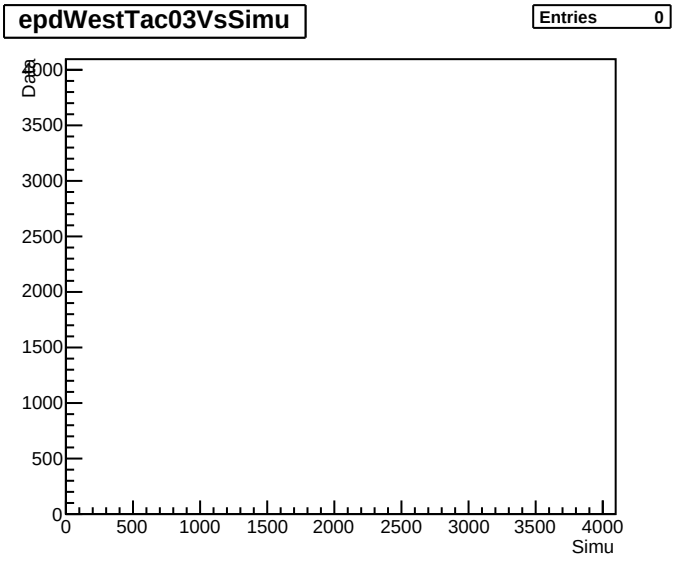
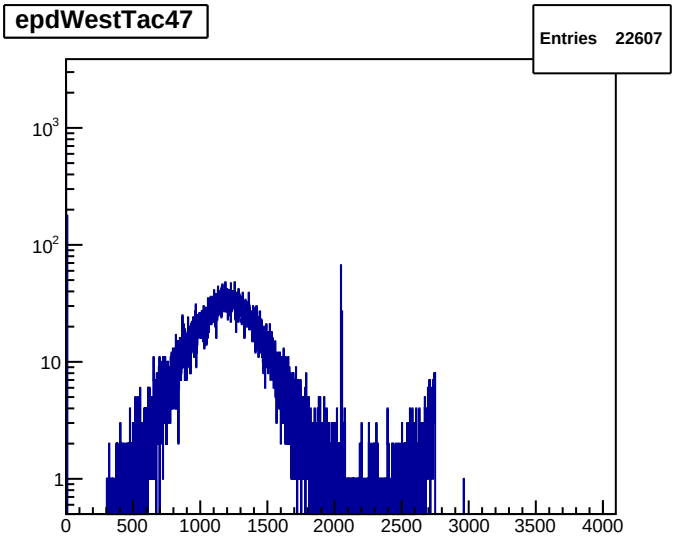
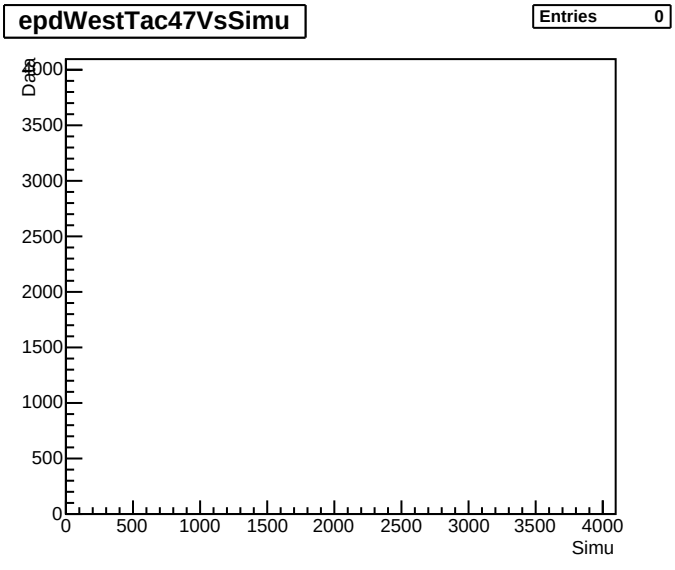
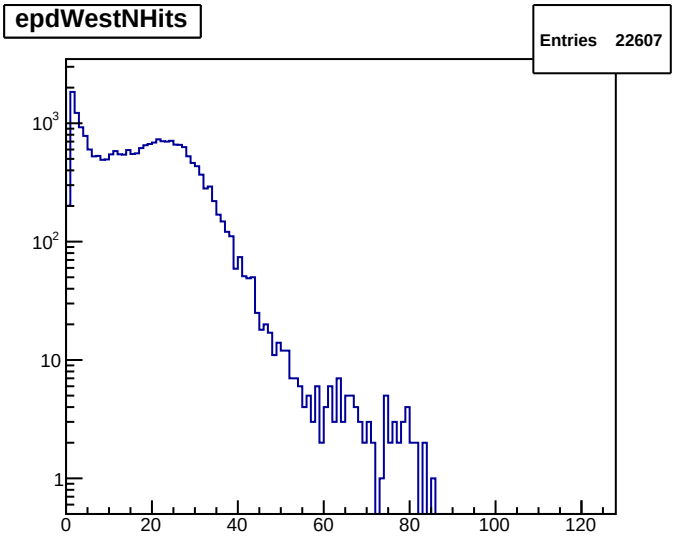
Entries 0
Data
Simu

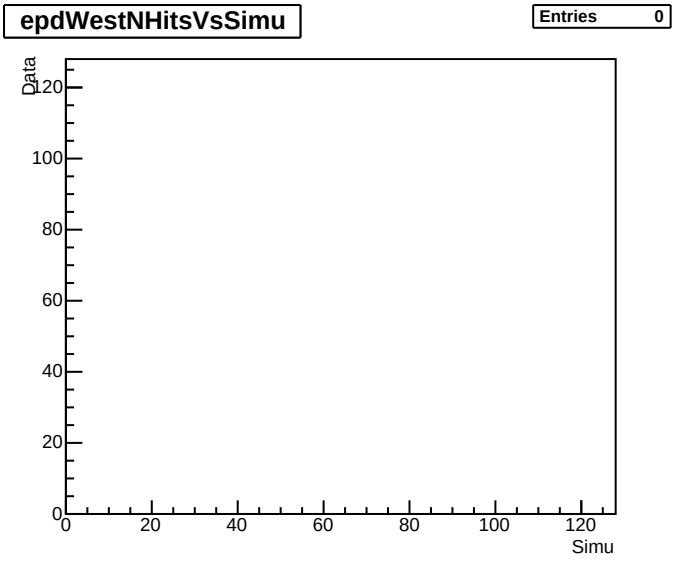

epdWestTac03
Entries 22607

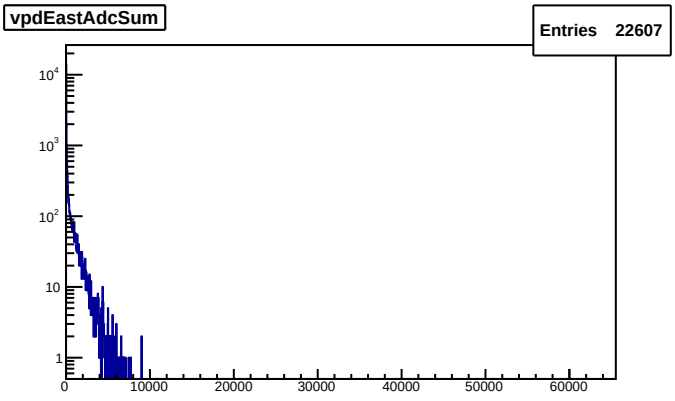

epdWestTac03VsSimu
Entries 0
Data
Simu

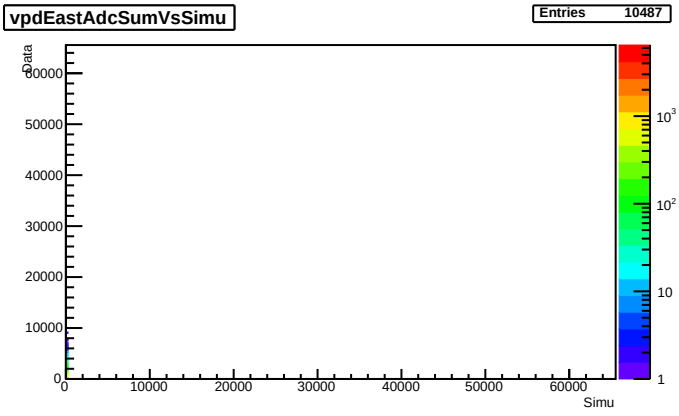

epdWestTac47
Entries 22607

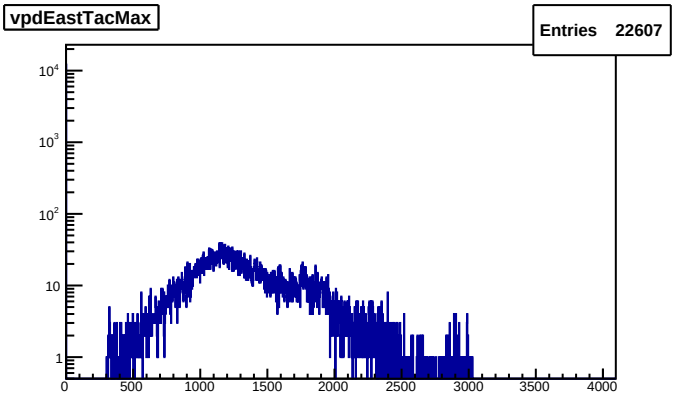

epdWestTac47VsSimu
Entries 0
Data
Simu

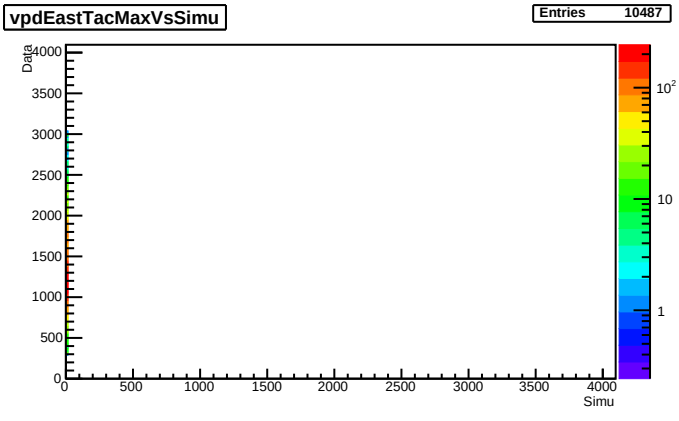

epdWestNHits
Entries 22607

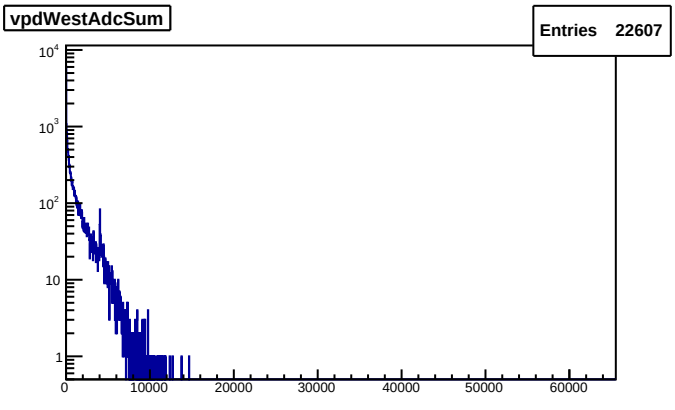

epdWestNHitsVsSimu
Entries 0
Data
Simu

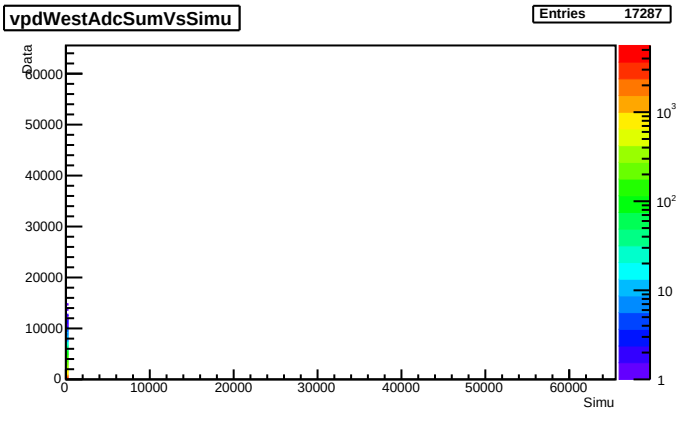

vpdEastAdcSum
Entries 22607

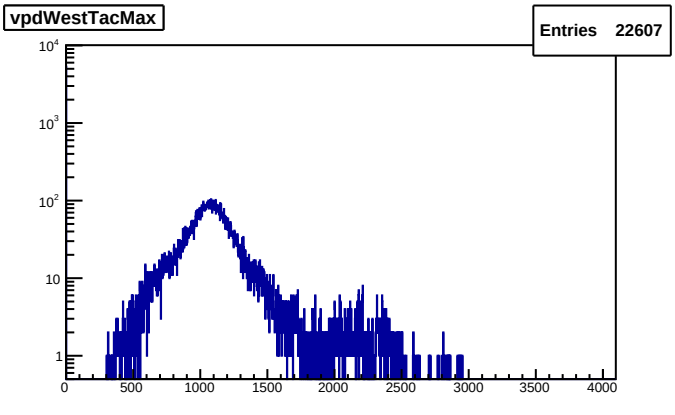

vpdEastAdcSumVsSimu
Entries 10487
Data
Simu

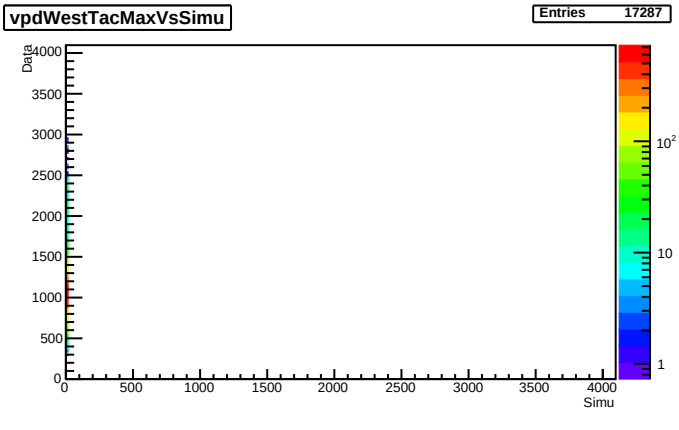

vpdEastTacMax
Entries 22607

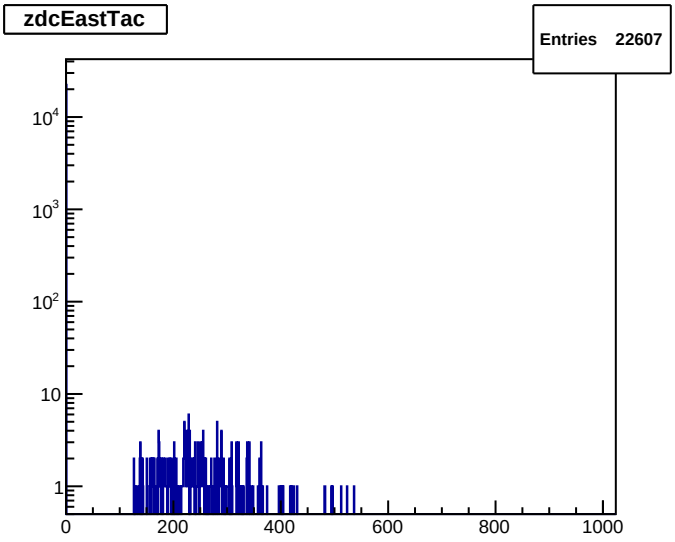

vpdEastTacMaxVsSimu
Entries 10487
Data
Simu

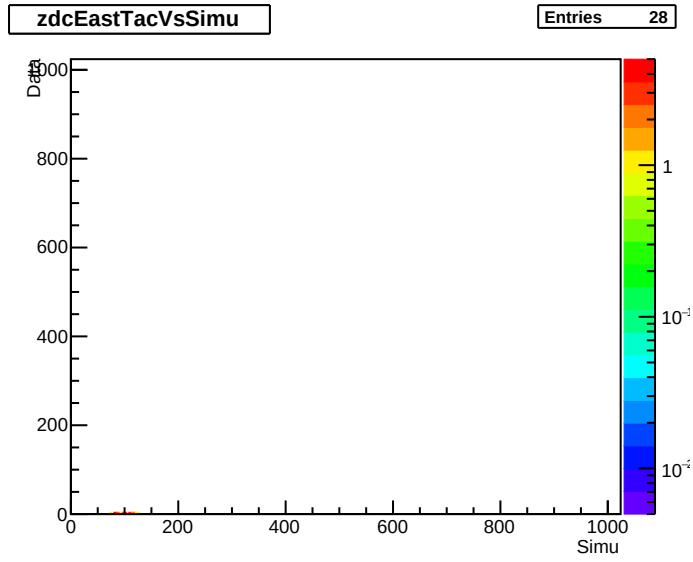

vpdWestAdcSum
Entries 22607

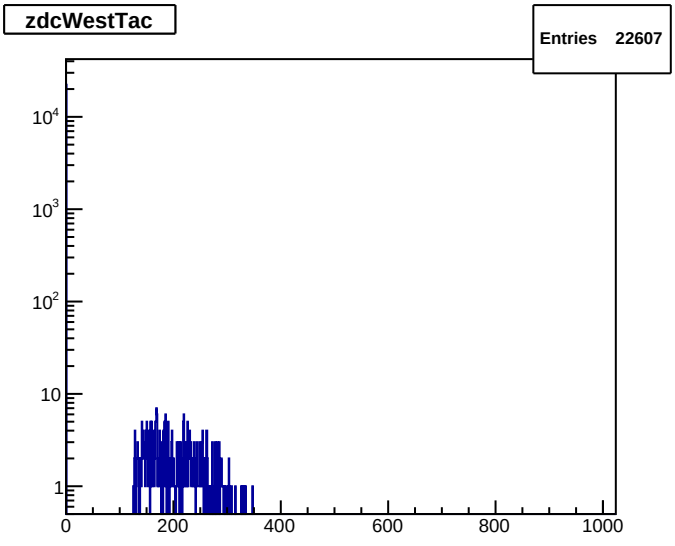

vpdWestAdcSumVsSimu
Entries 17287
Data
Simu

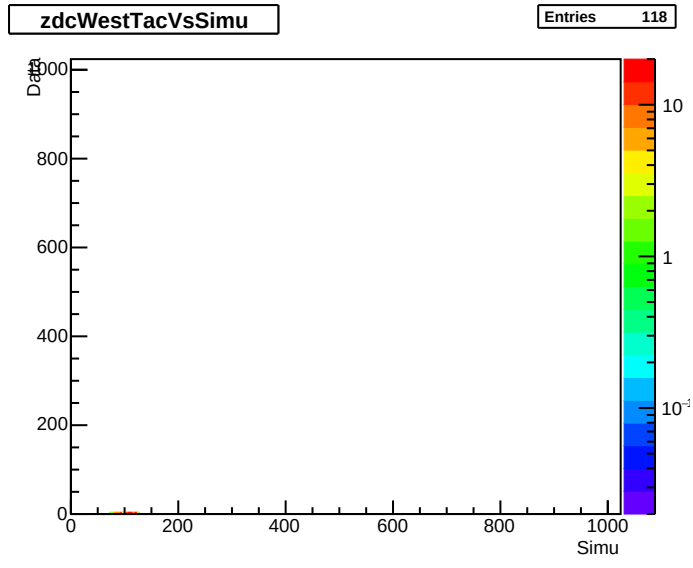

vpdWestTacMax
Entries 22607

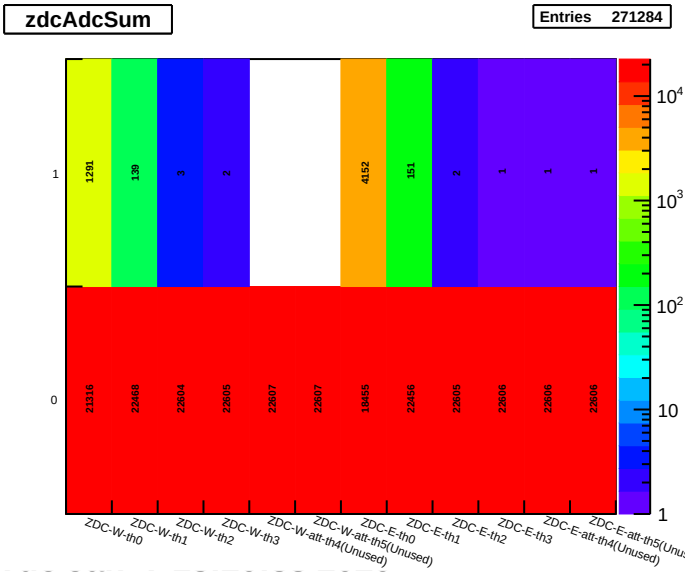

vpdWestTacMaxVsSimu
Entries 17287
Data
Simu

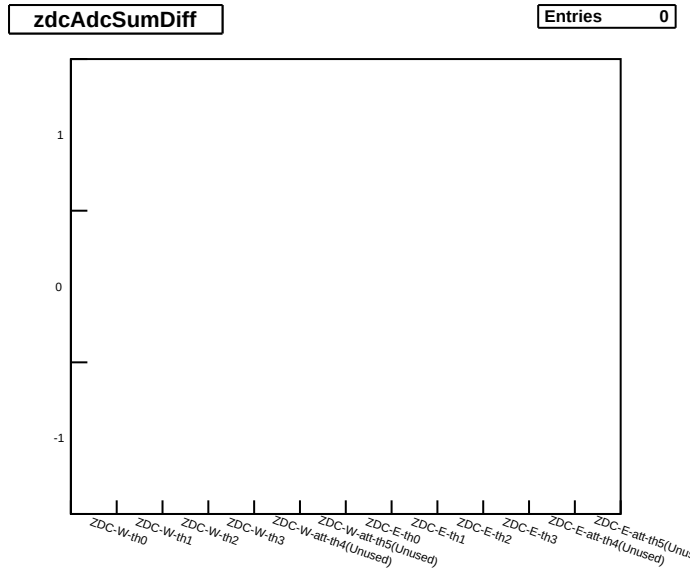

zdcEastTac
Entries 22607
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

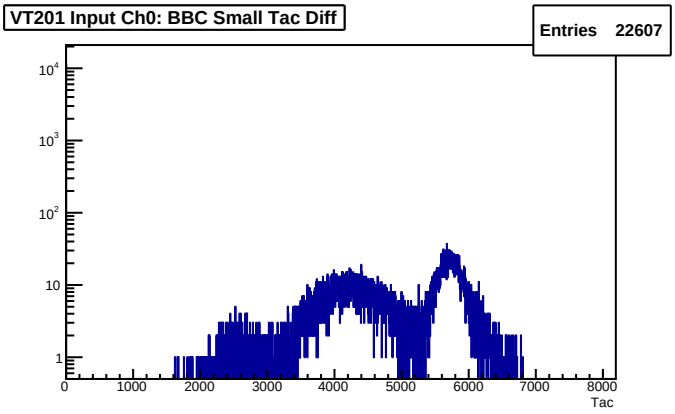

zdcEastTacVsSimu
Entries 28
Data
1000
800
600
400
200
0
Simu
1

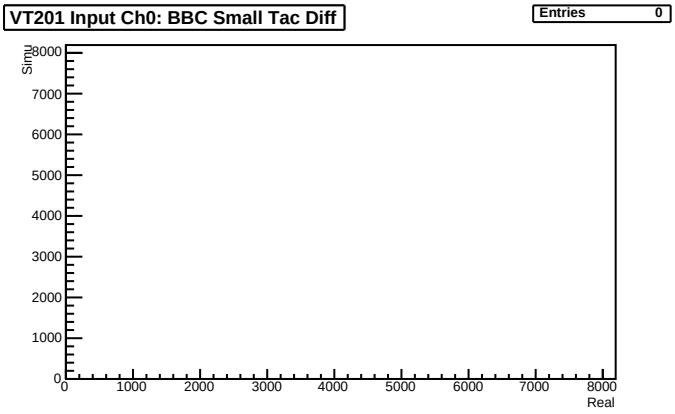

zdcWestTac
Entries 22607
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

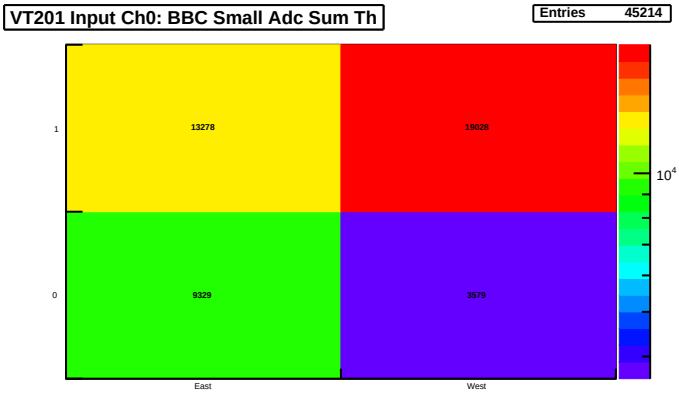

zdcWestTacVsSimu
Entries 118
Data
1000
800
600
400
200
0
Simu
10
1

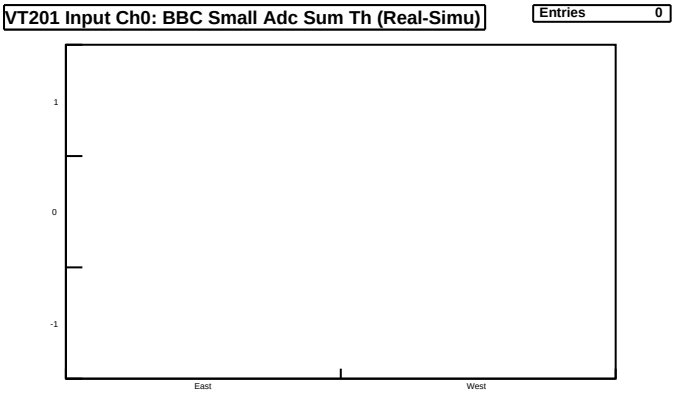

zdcAdcSum
Entries 271284
1
0
1291
139
3
2
4152
151
2
1
1
1
21316
22468
22604
22605
22607
22607
18455
22456
22605
22606
22606
22606
10^4
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

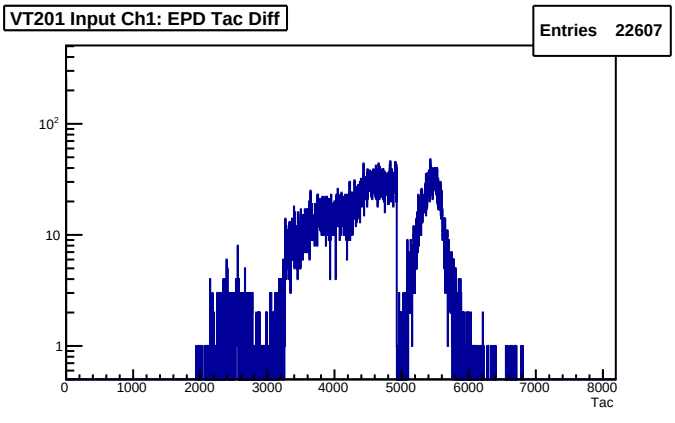

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

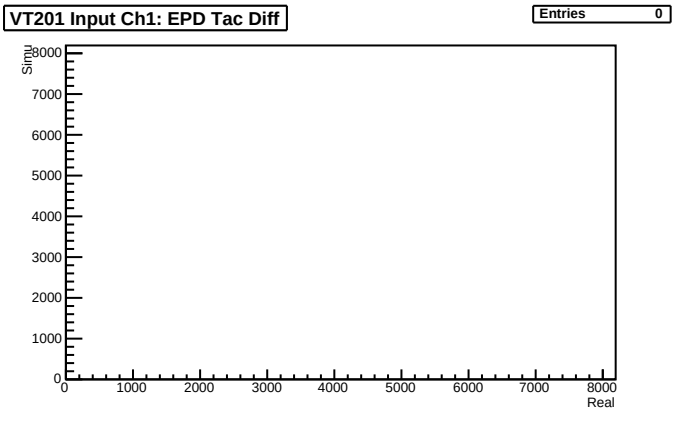

VT201 Input Ch0: BBC Small Tac Diff
Entries 22607
Tac

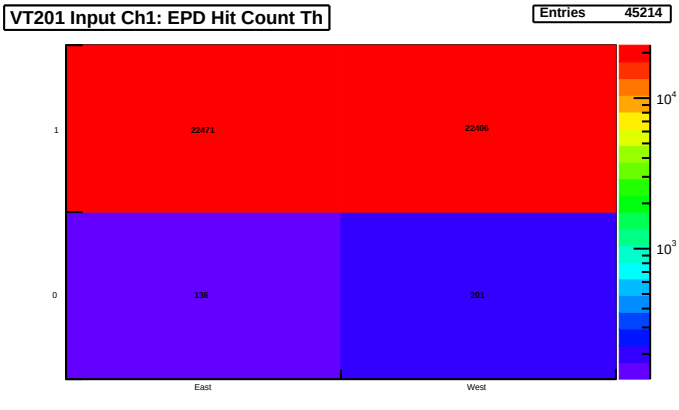

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

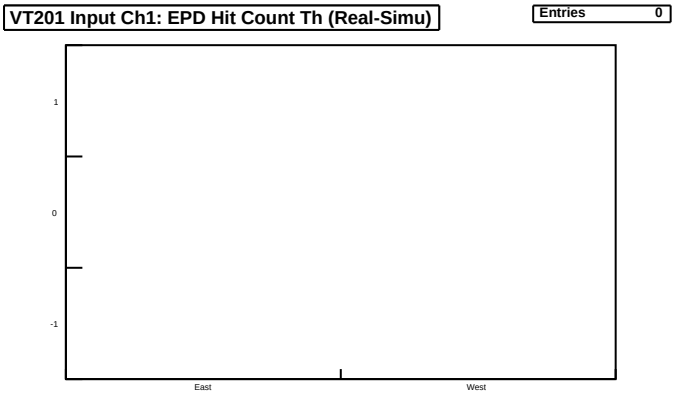

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 45214
13278
19028
9329
3579
East
West

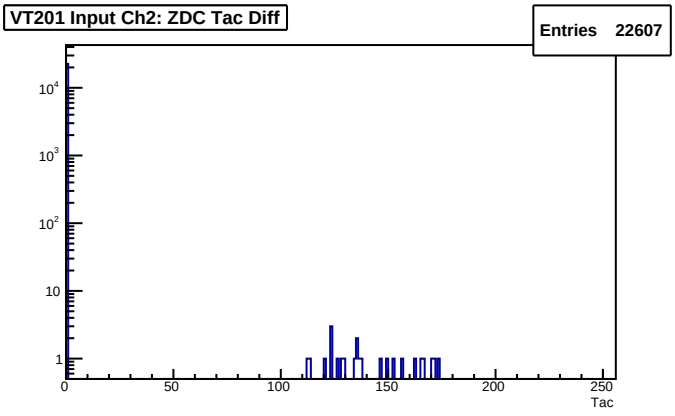

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

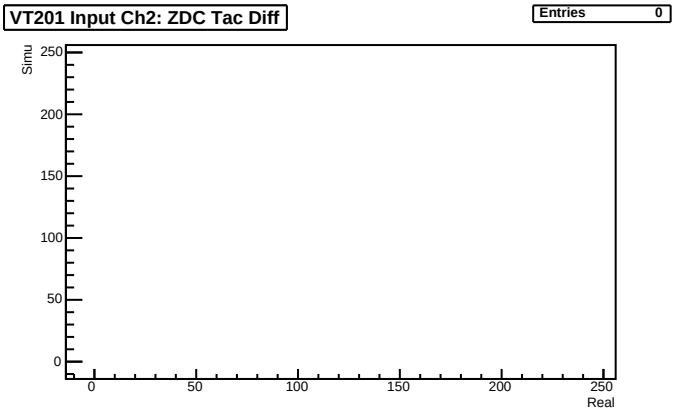

VT201 Input Ch1: EPD Tac Diff
Entries 22607
Tac

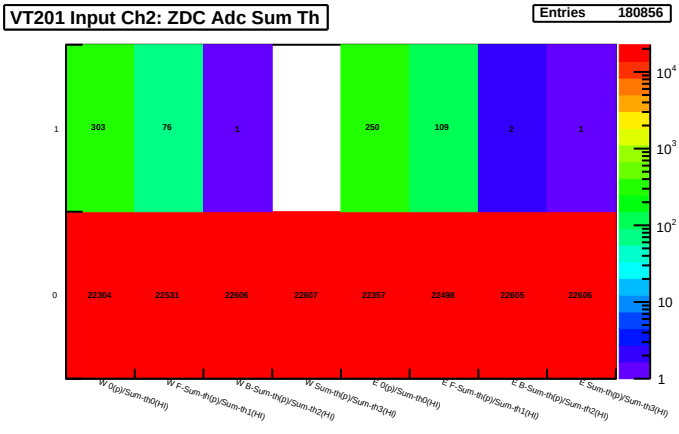

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

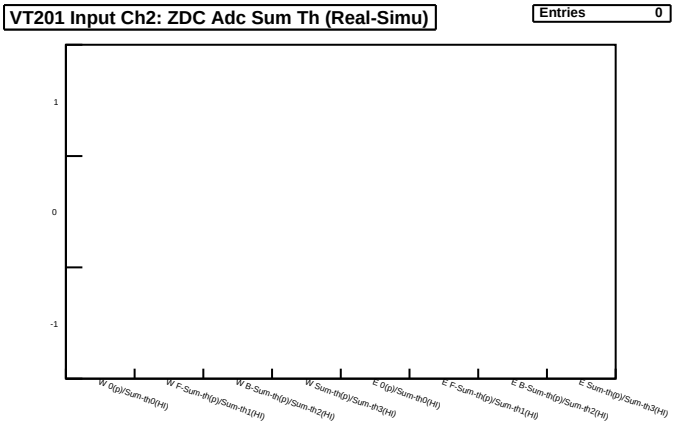

VT201 Input Ch1: EPD Hit Count Th
Entries 45214
22471
22406
136
201
East
West

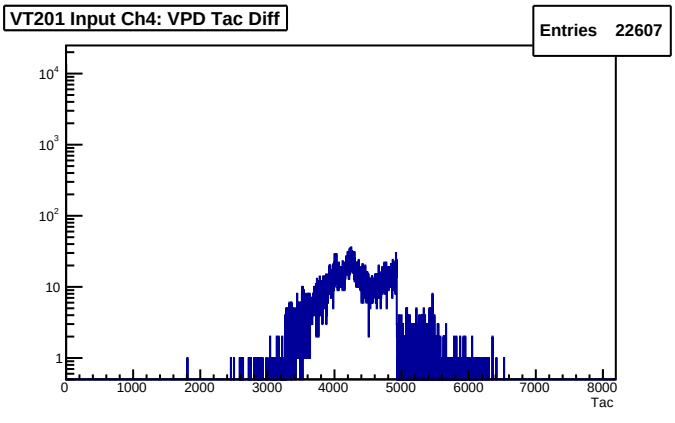

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

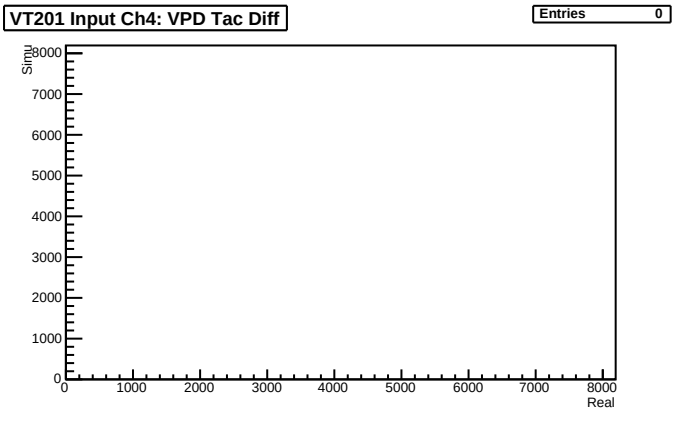

VT201 Input Ch2: ZDC Tac Diff
Entries 22607
Tac

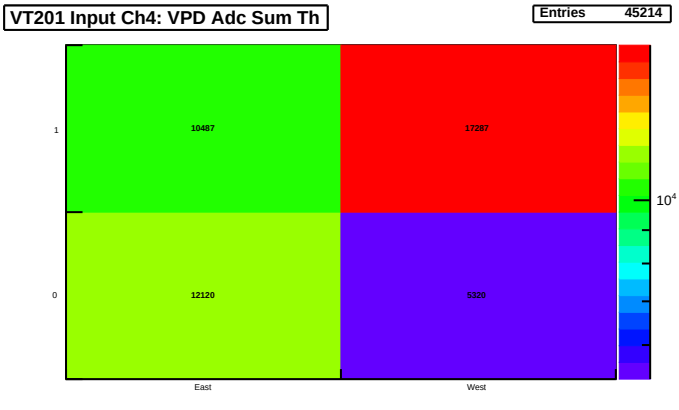

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

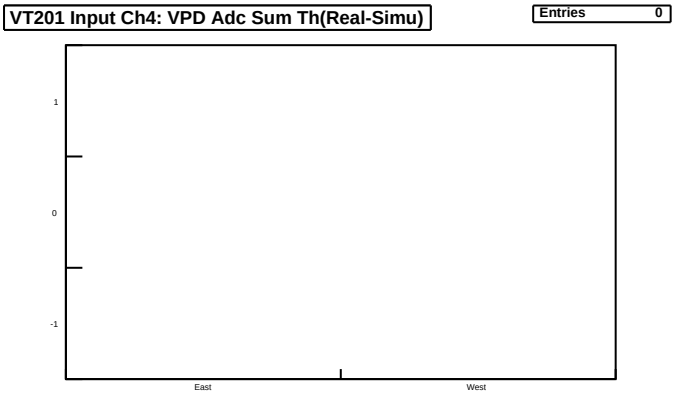

VT201 Input Ch2: ZDC Adc Sum Th
Entries 180856
303
76
1
250
109
2
1
22304
22531
22606
22607
22357
22498
22605
22606
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

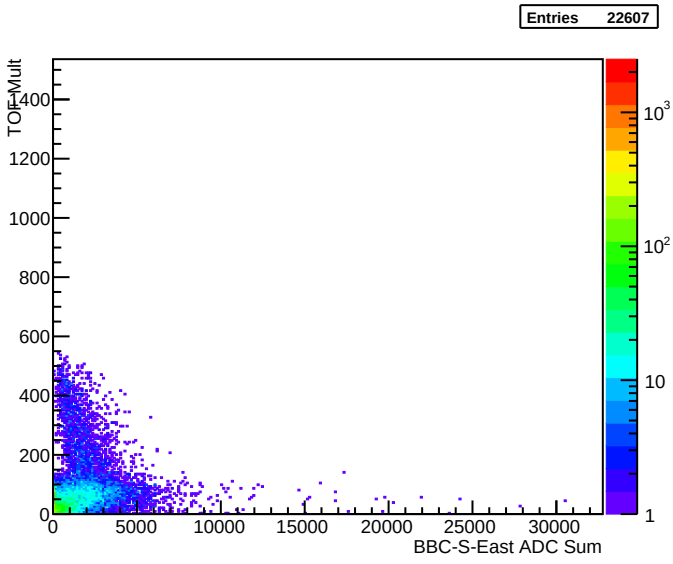

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

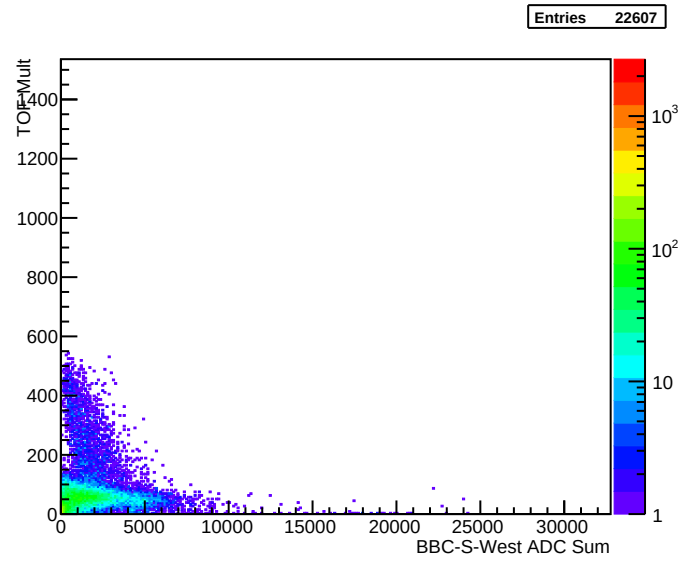

VT201 Input Ch4: VPD Tac Diff
Entries 22607
Tac

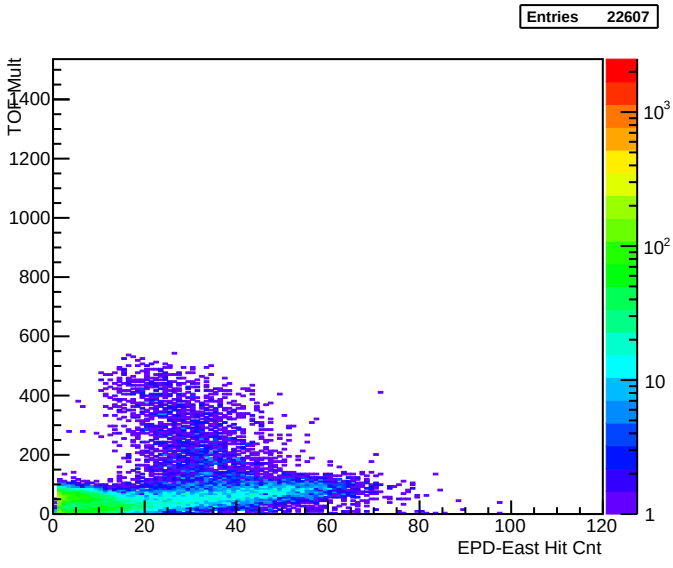

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

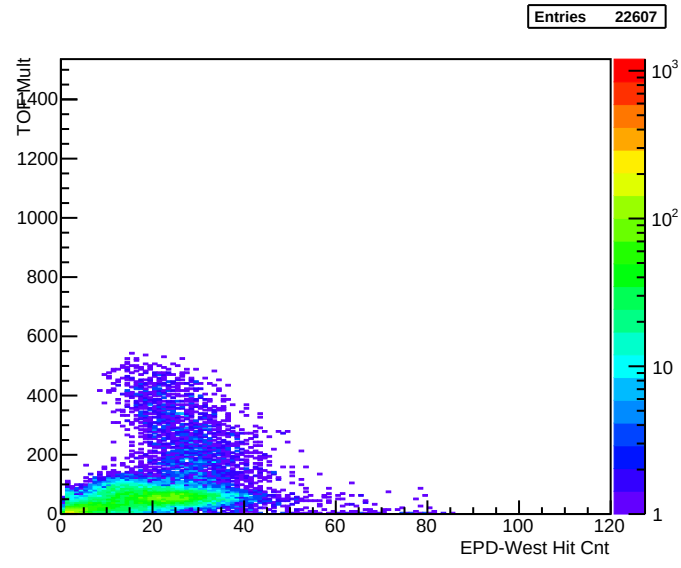

VT201 Input Ch4: VPD Adc Sum Th
Entries 45214
10487
17267
12120
5320
East
West

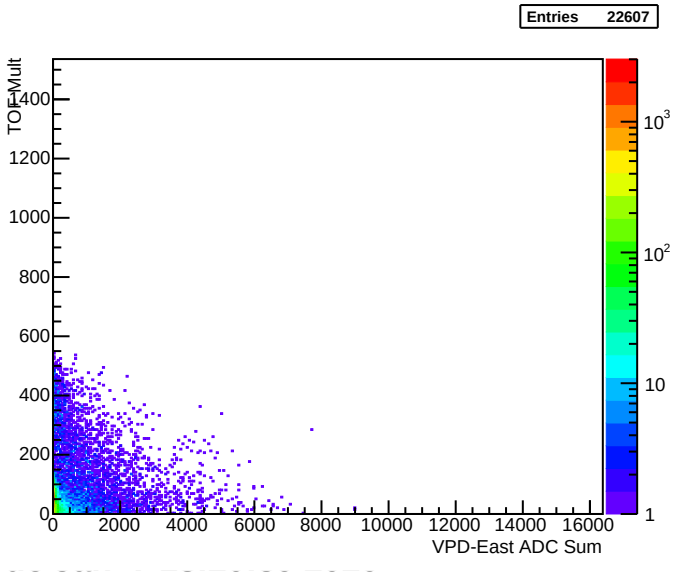

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

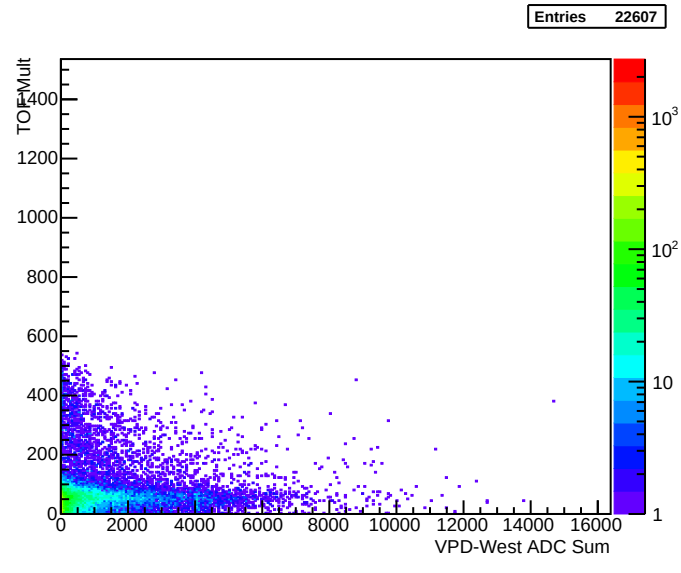

Entries 22607
TOF-Mult
BBC-S-East ADC Sum

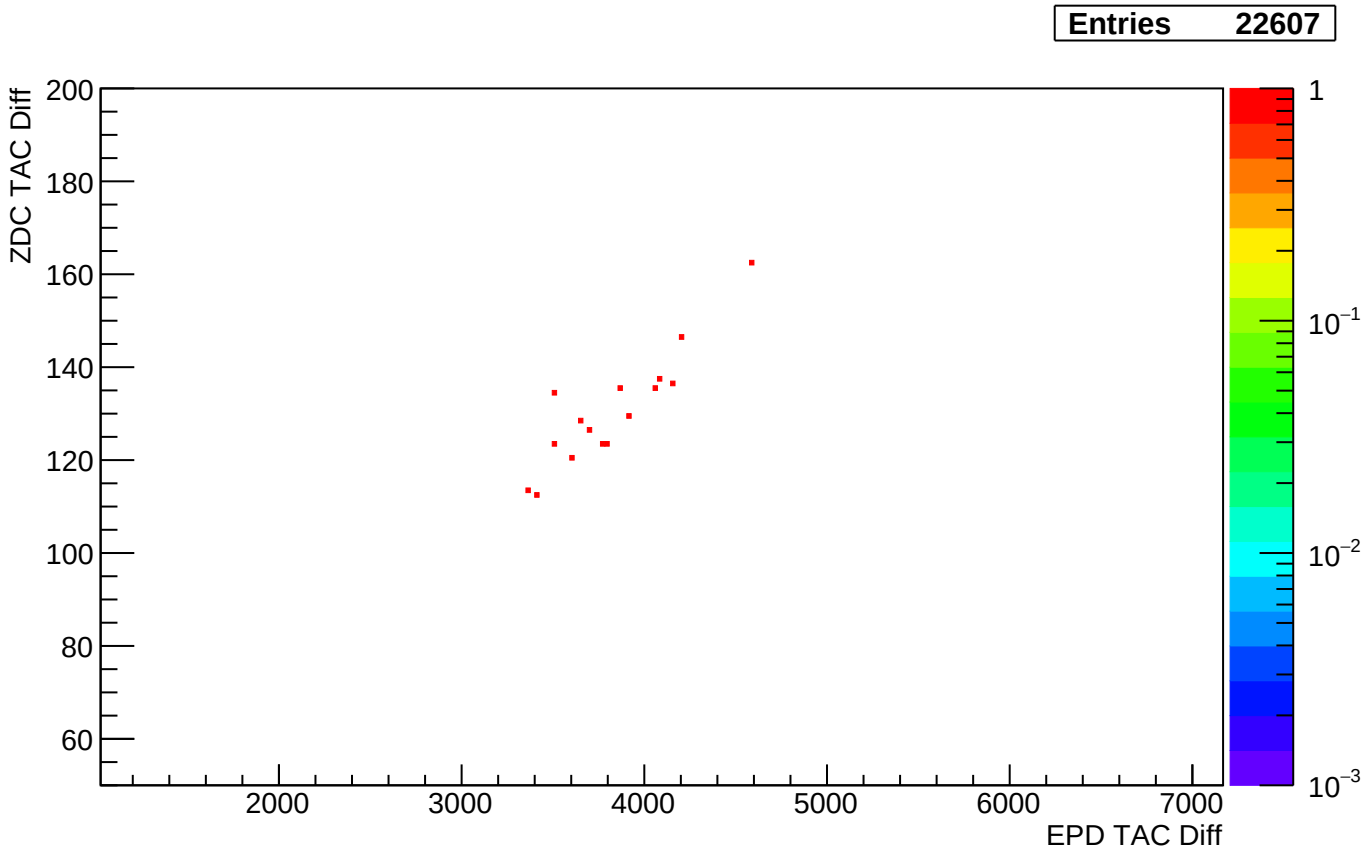

Entries 22607
TOF-Mult
BBC-S-West ADC Sum

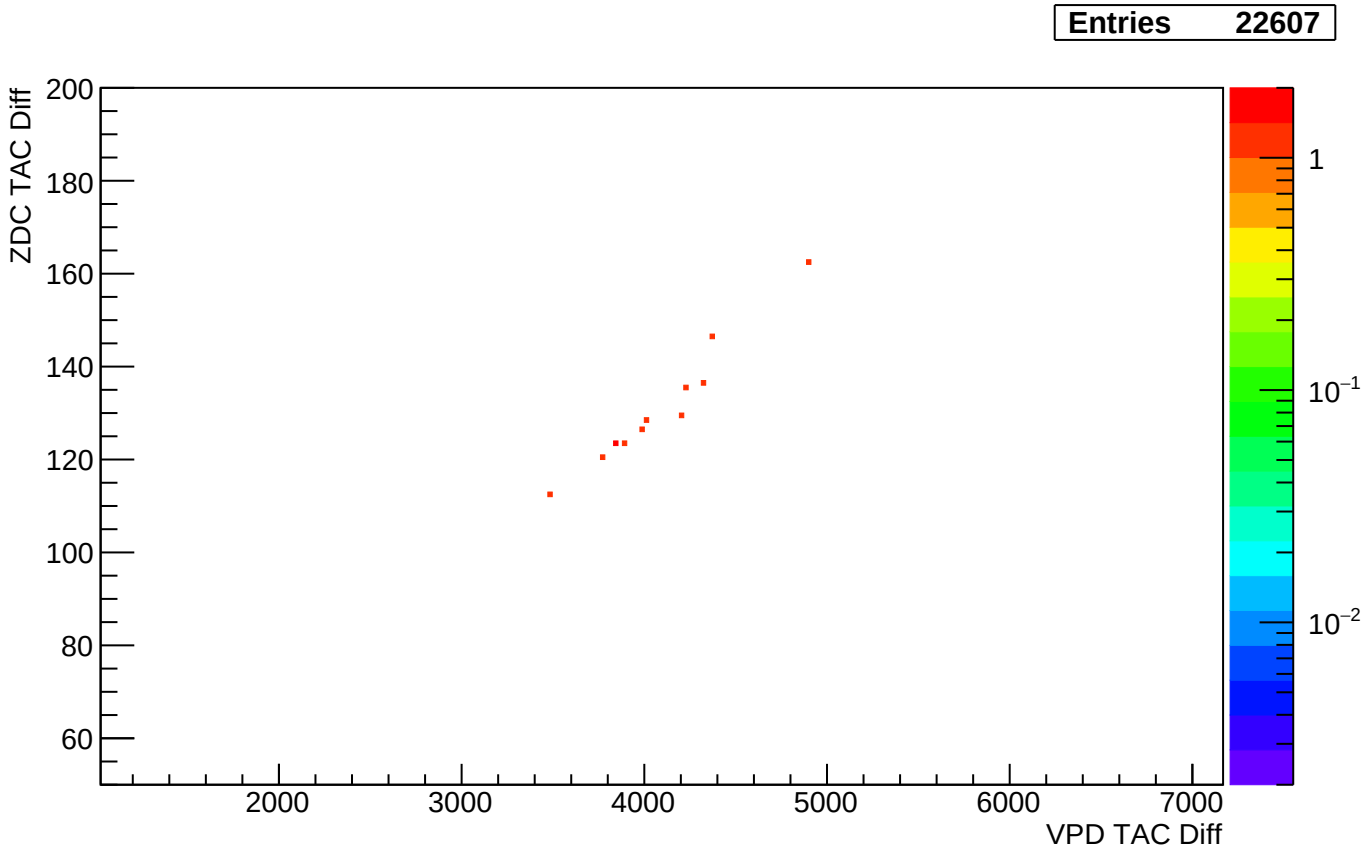

Entries 22607
TOF-Mult
EPD-East Hit Cnt

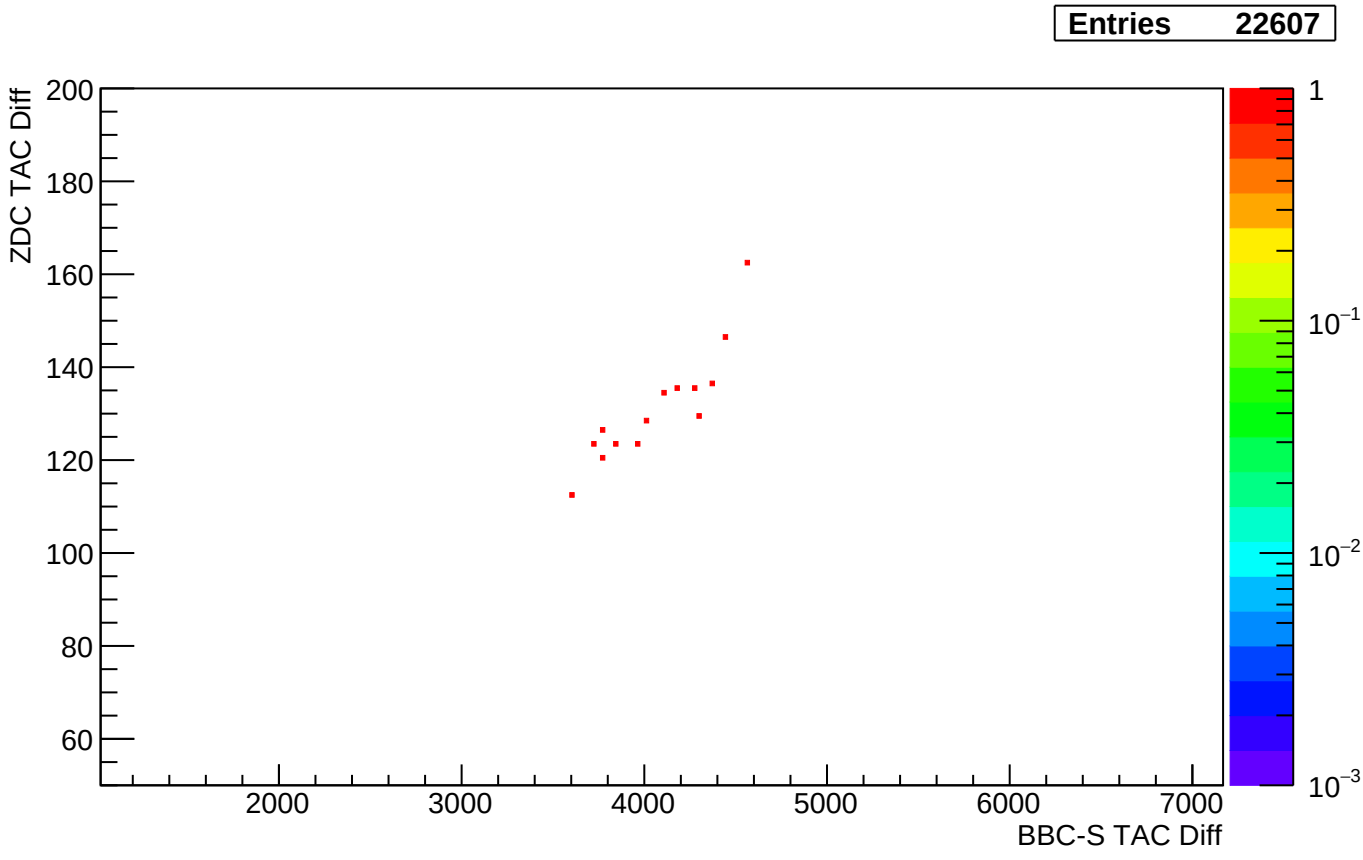

Entries 22607
TOF-Mult
EPD-West Hit Cnt

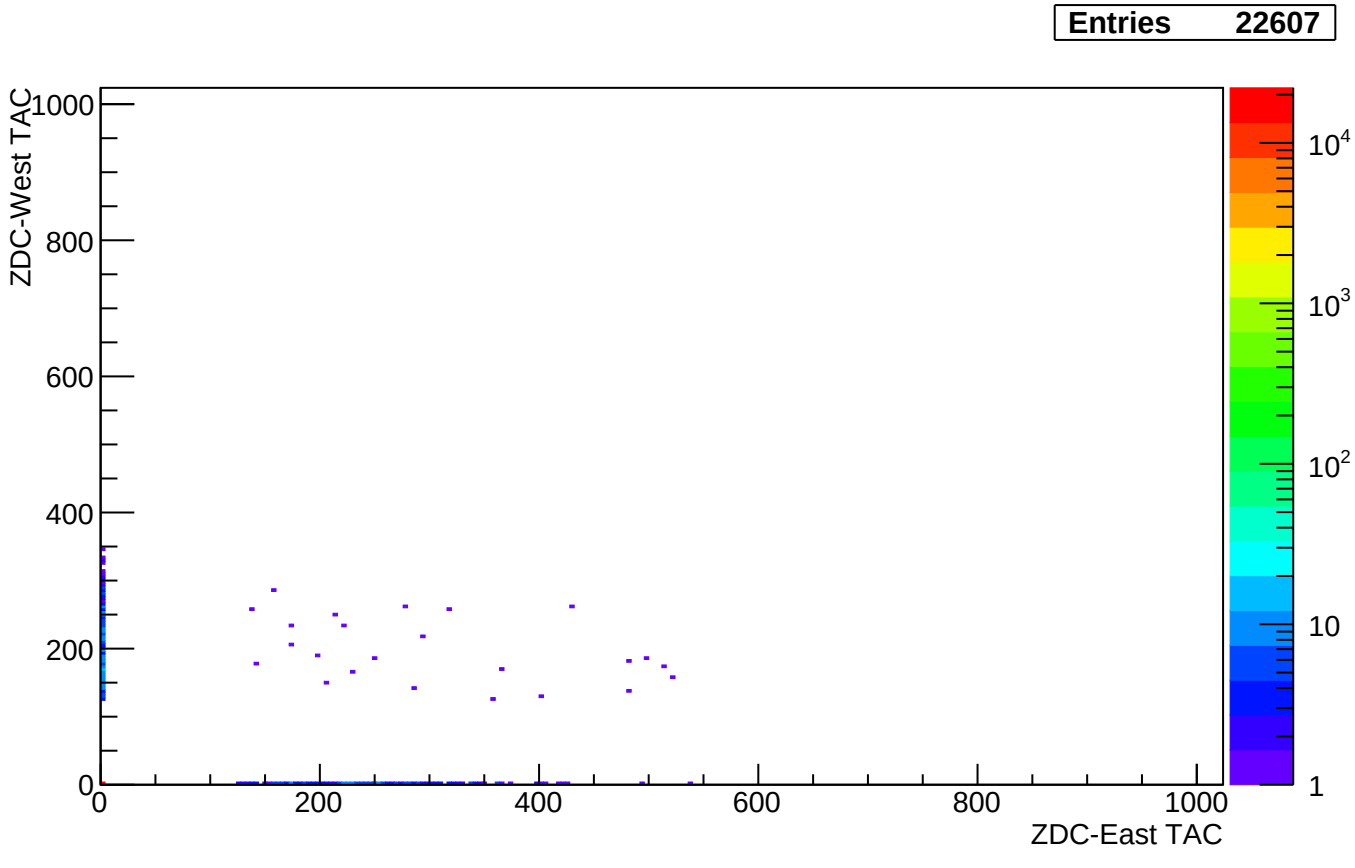

Entries 22607
TOF-Mult
VPD-East ADC Sum

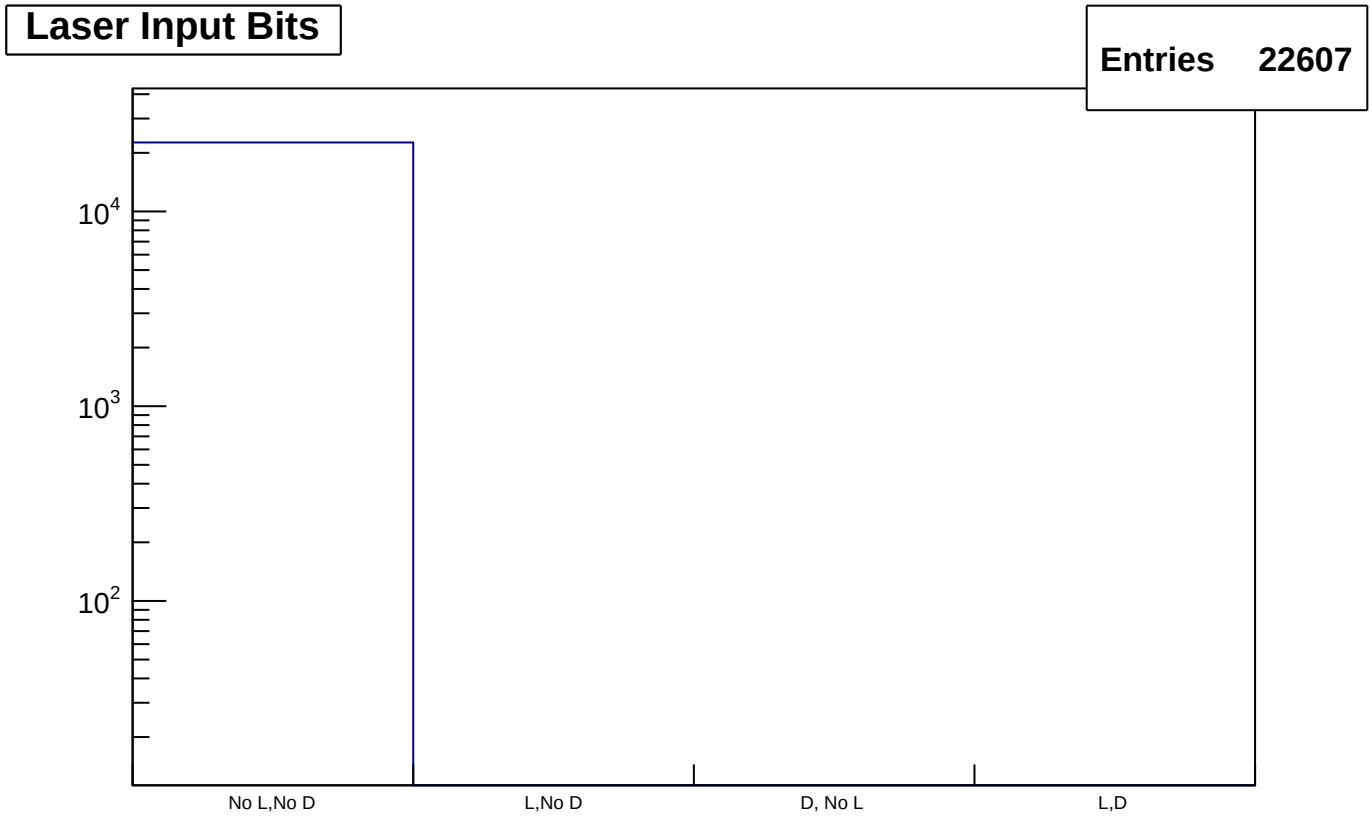

Entries 22607
TOF-Mult
VPD-West ADC Sum

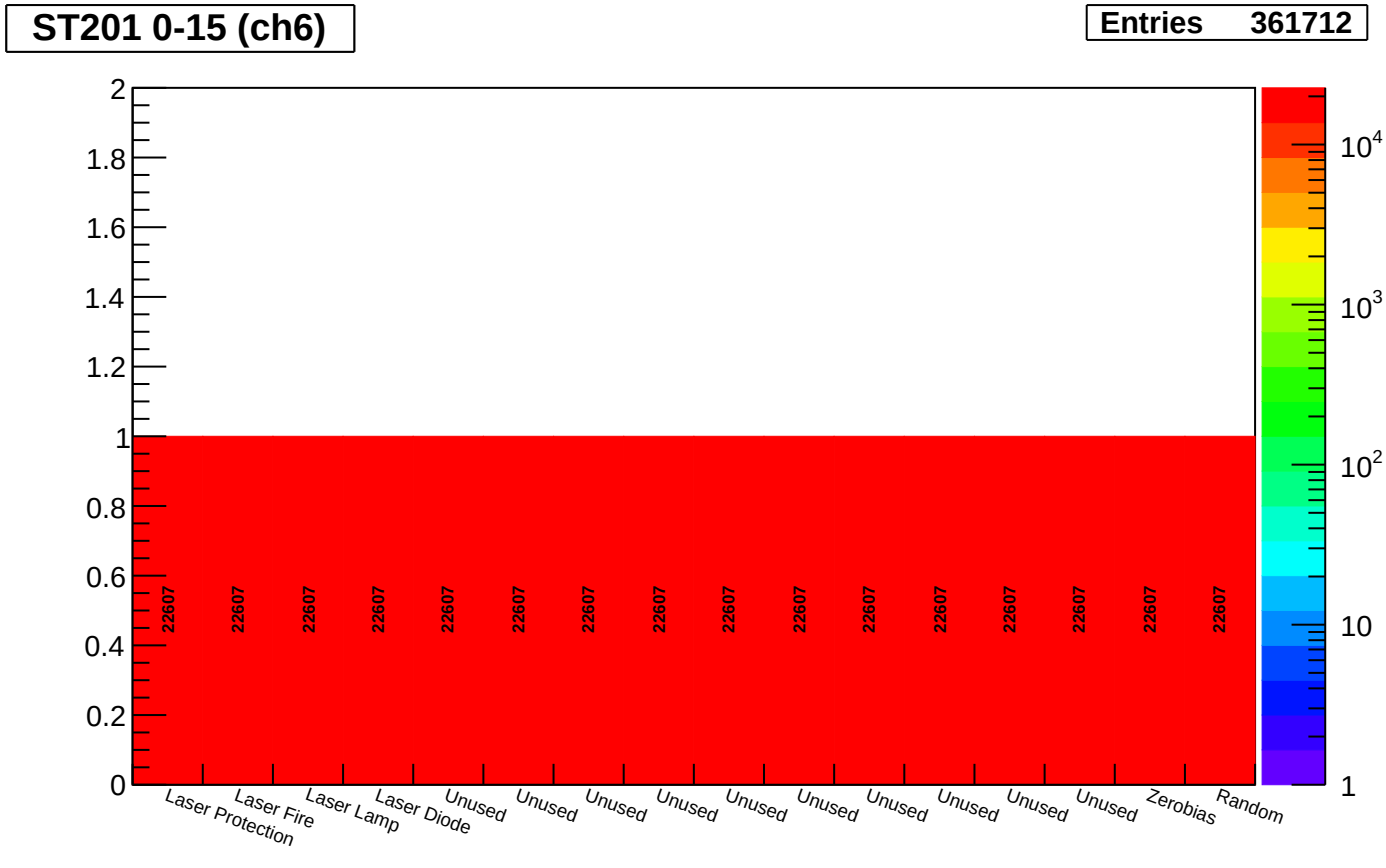

Entries 22607
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

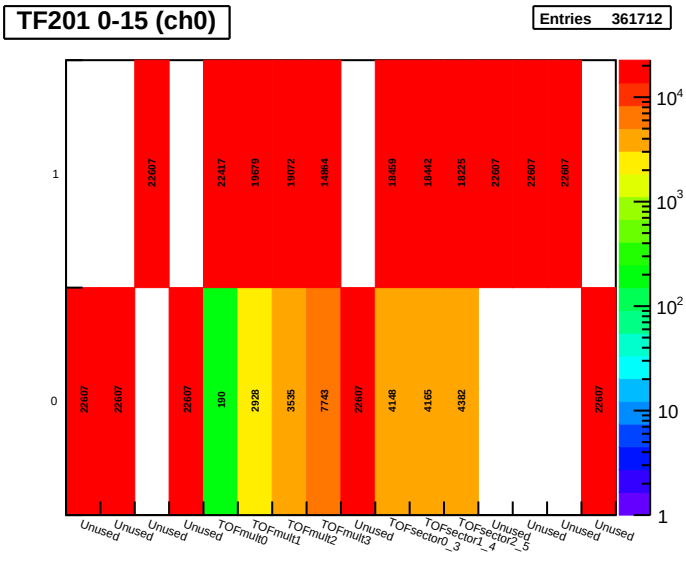

Entries 22607
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

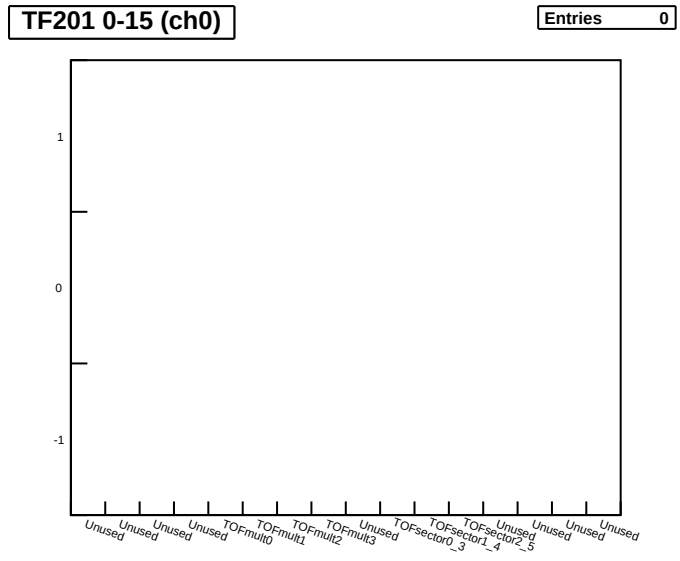

Entries 22607
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}
10^{-3}

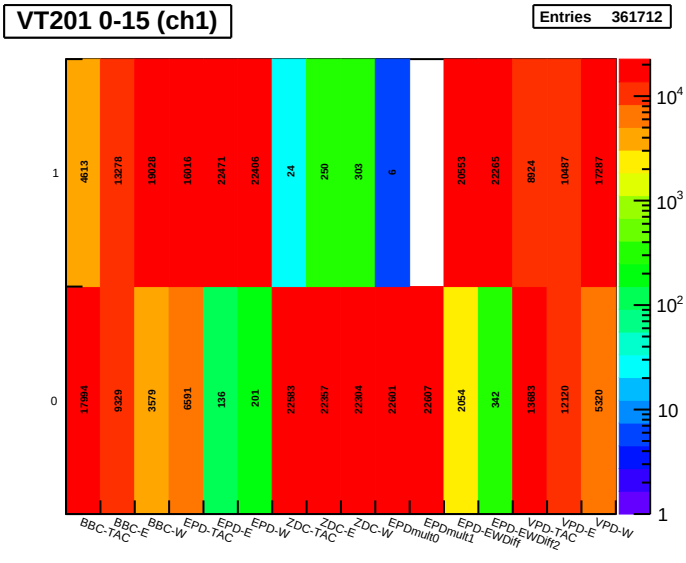

Entries 22607
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^4
10^3
10^2
10
1

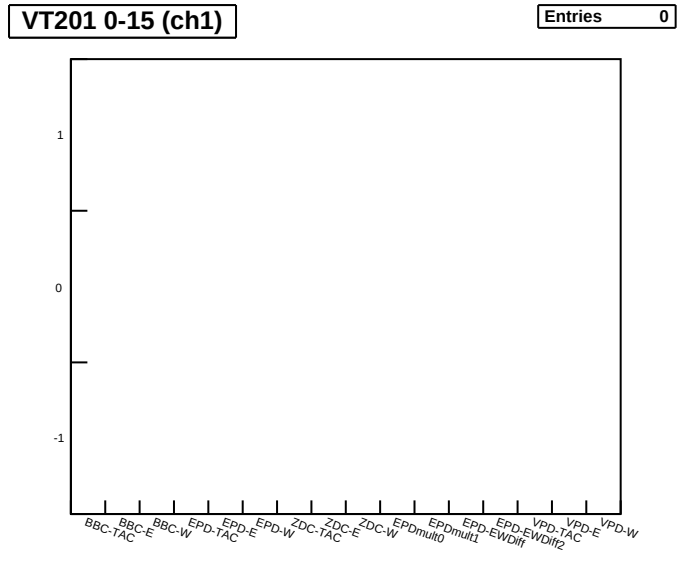

Laser Input Bits
Entries 22607
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

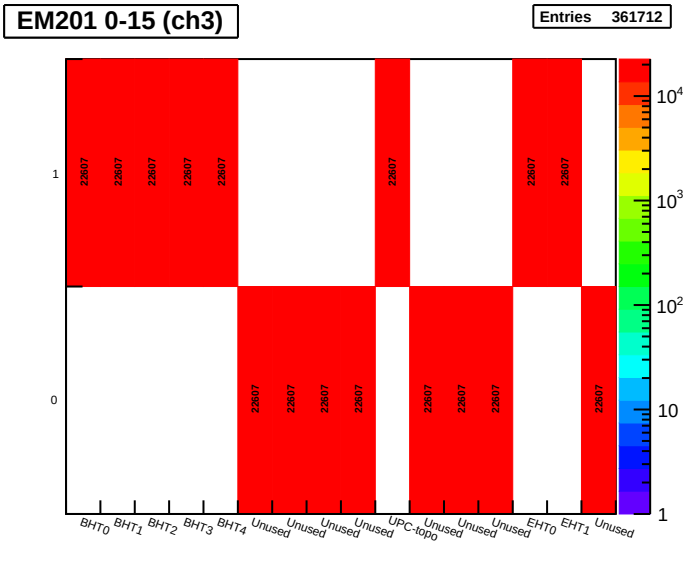

ST201 0-15 (ch6)
Entries 361712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
22607
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

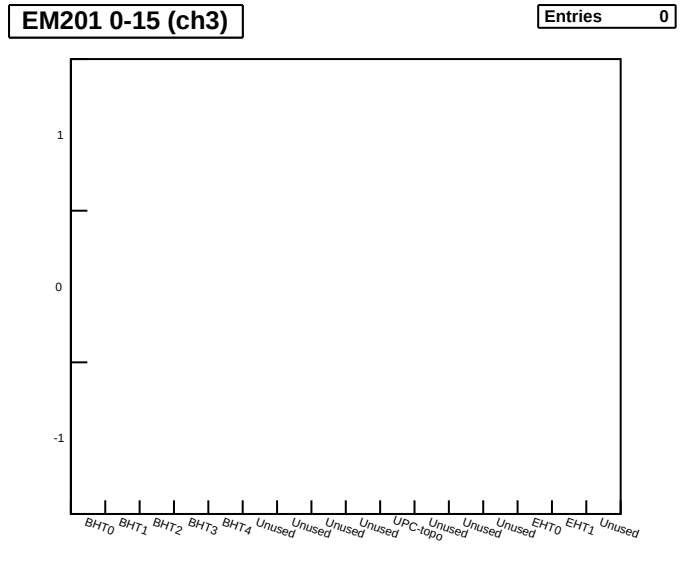

TF201 0-15 (ch0)
Entries 361712
1
0
22607
22417
19679
19072
14984
18459
18442
18225
22607
22607
22607
22607
22607
22607
190
2928
3535
7743
22607
4148
4165
4382
22607
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
10^4
10^3
10^2
10
1


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


VT201 0-15 (ch1)
Entries 361712
1
0
4613
13278
19028
16016
23471
22406
24
290
303
6
20553
22265
8924
10487
17287
17994
9329
3579
6591
136
201
22583
22357
22304
22601
22607
2054
342
13683
12120
5320
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
10^4
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 361712
1
0
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
22607
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1
10^4
10^3
10^2
10
1


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