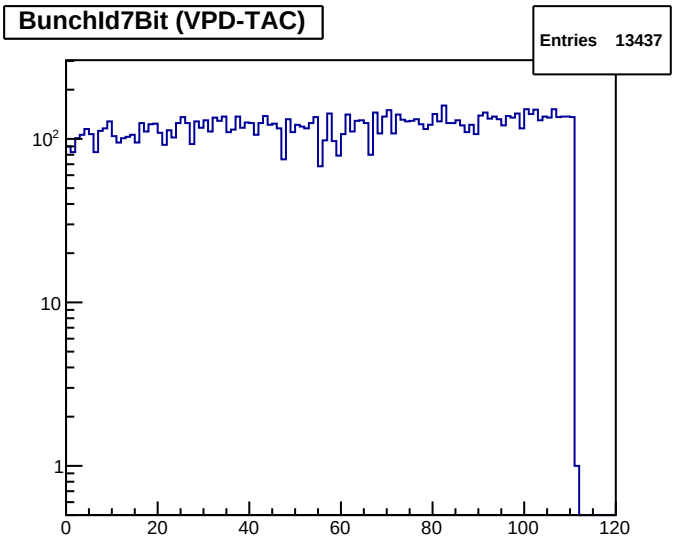
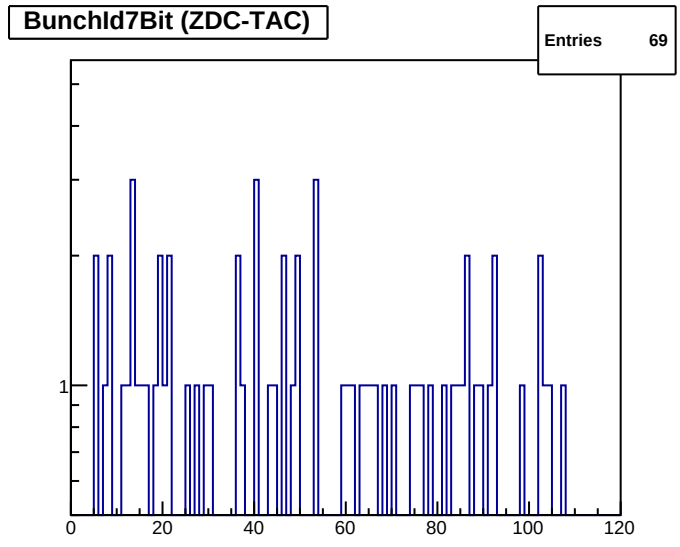
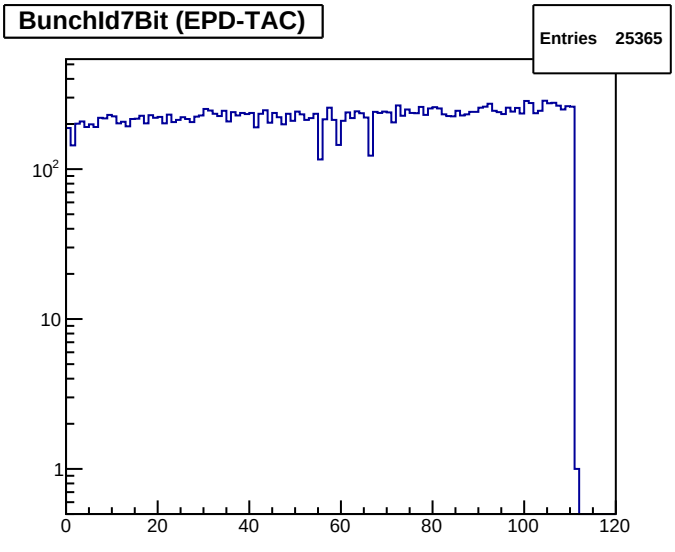
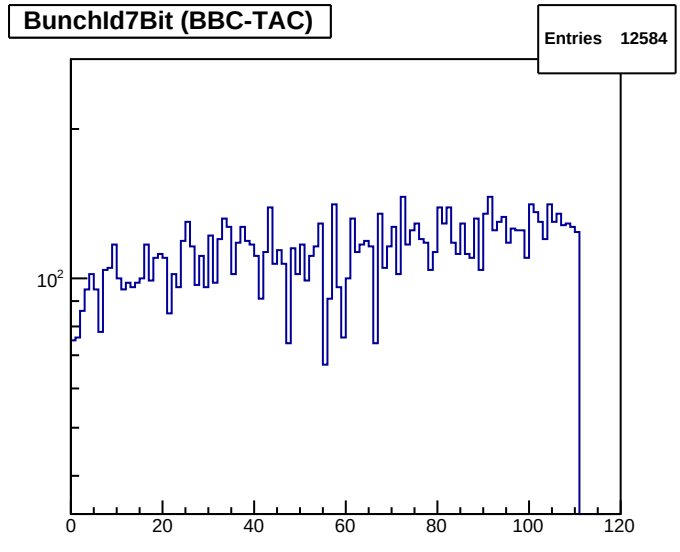
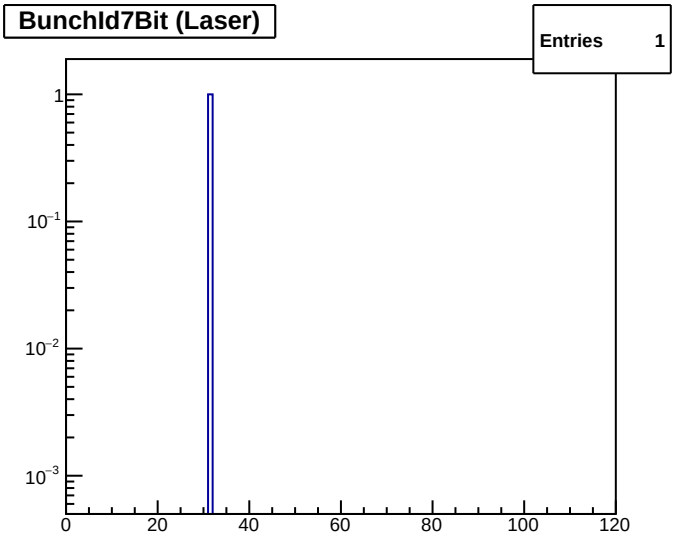
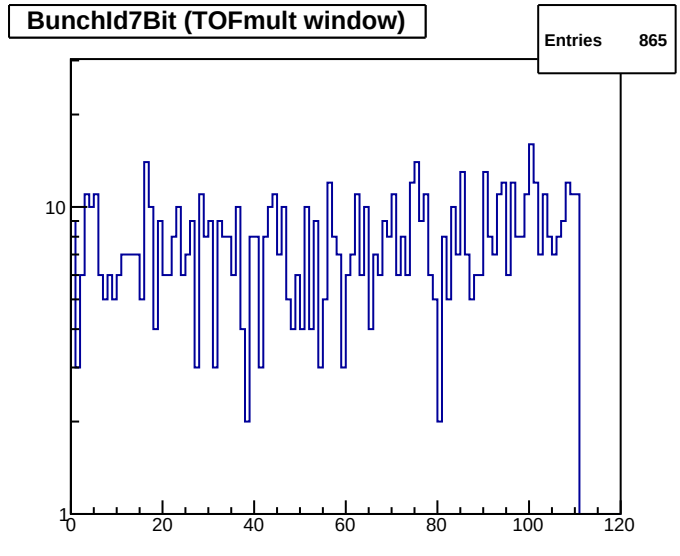

BunchId7Bit (VPD-TAC)
Entries 13437
10^2
10
1
0
20
40
60
80
100
120

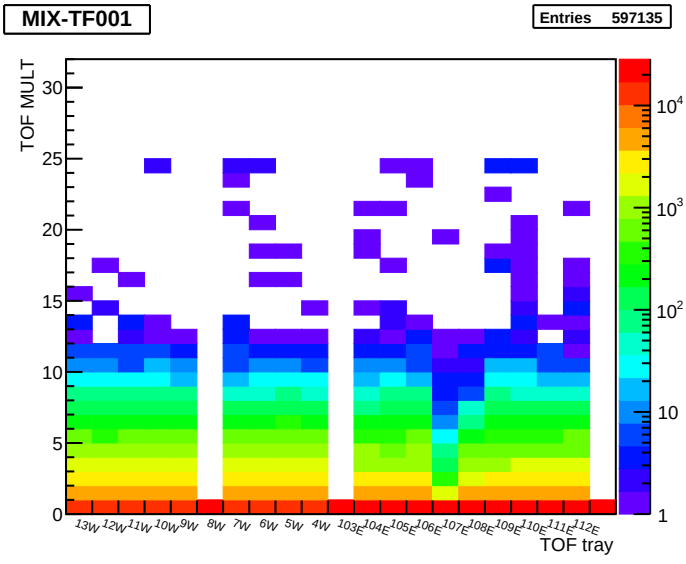

BunchId7Bit (ZDC-TAC)
Entries 69
1
0
20
40
60
80
100
120

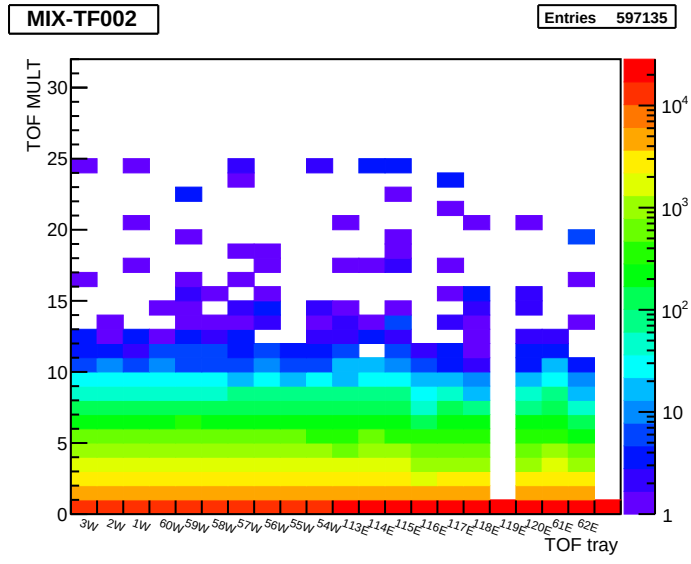

BunchId7Bit (EPD-TAC)
Entries 25365
10^2
10
1
0
20
40
60
80
100
120

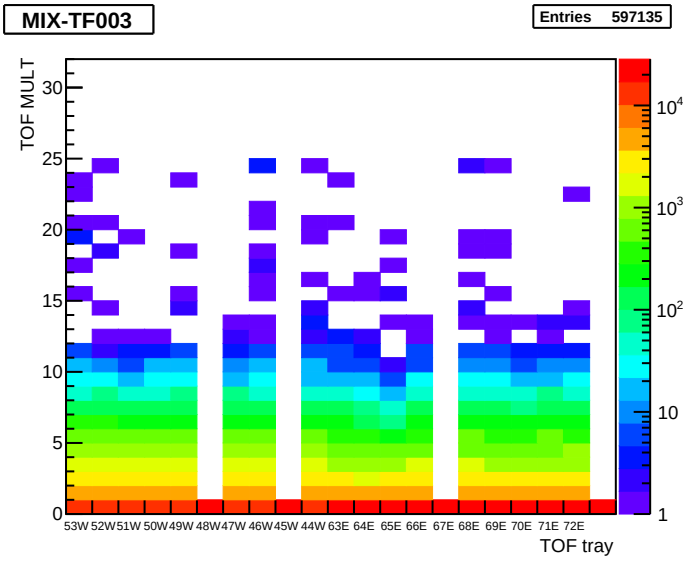

BunchId7Bit (BBC-TAC)
Entries 12584
10^2
0
20
40
60
80
100
120

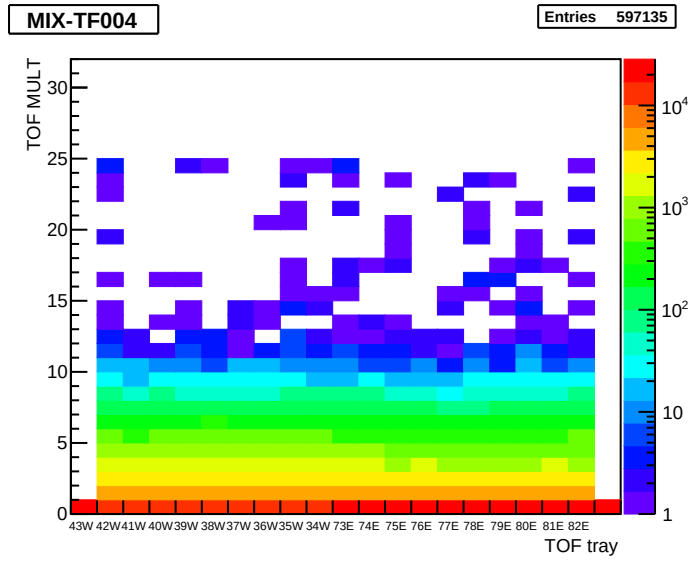

BunchId7Bit (Laser)
Entries 1
1
10^{-1}
10^{-2}
10^{-3}
0
20
40
60
80
100
120

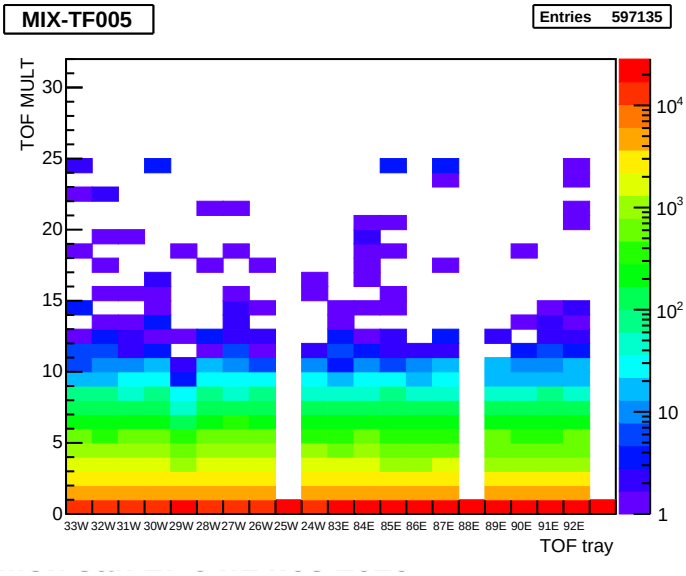

BunchId7Bit (TOFmult window)
Entries 865
10
1
0
20
40
60
80
100
120

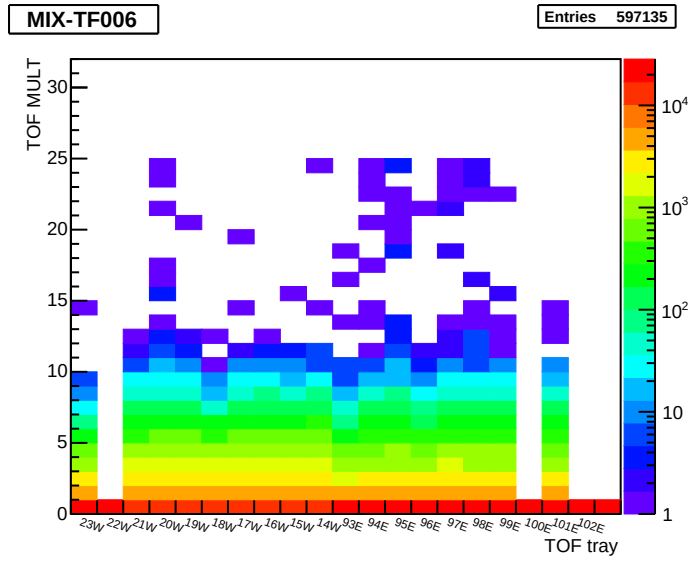

MIX-TF001
Entries 597135
TOF MULT
TOF tray

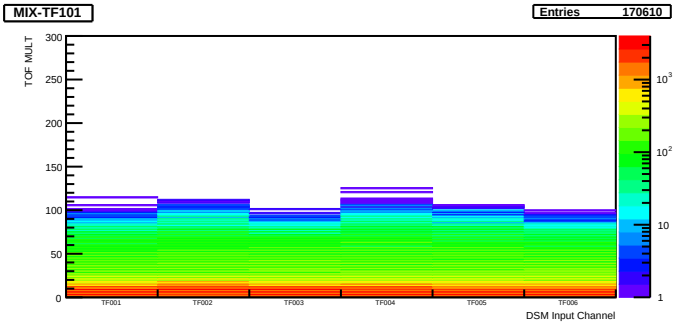

MIX-TF002
Entries 597135
TOF MULT
TOF tray

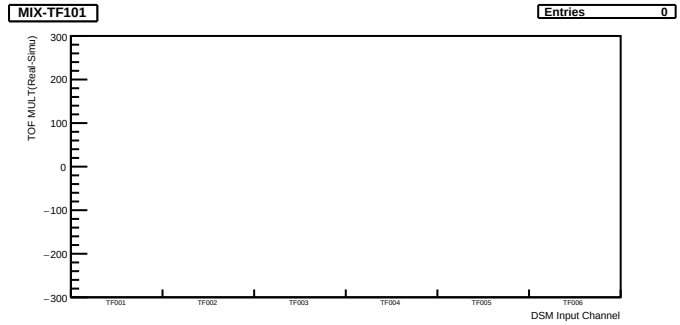

MIX-TF003
Entries 597135
TOF MULT
TOF tray

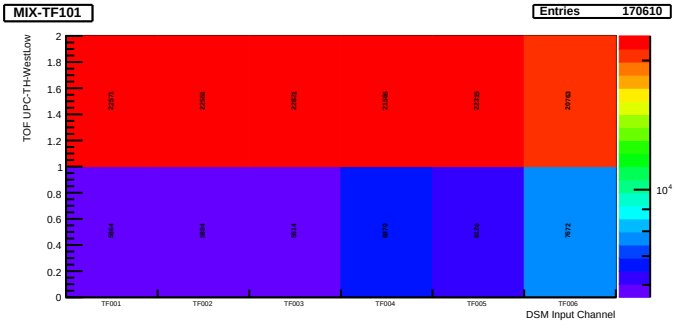

MIX-TF004
Entries 597135
TOF MULT
TOF tray

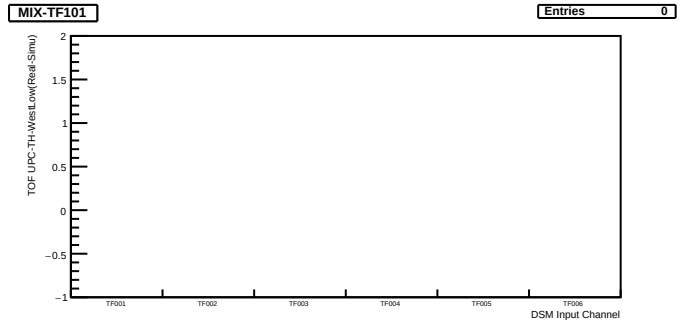

MIX-TF005
Entries 597135
TOF MULT
TOF tray

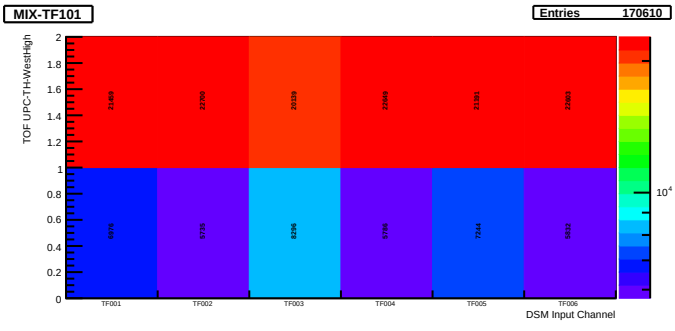

MIX-TF006
Entries 597135
TOF MULT
TOF tray

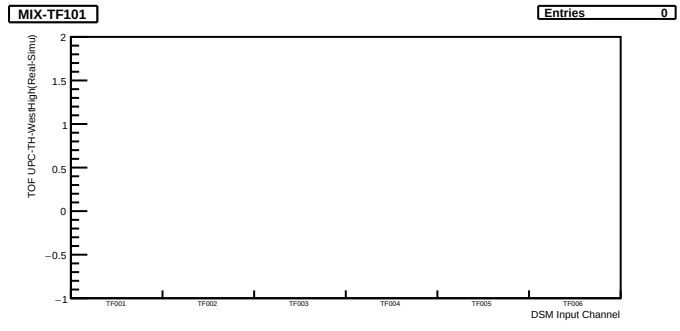

MIX-TF101
Entries 170610
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

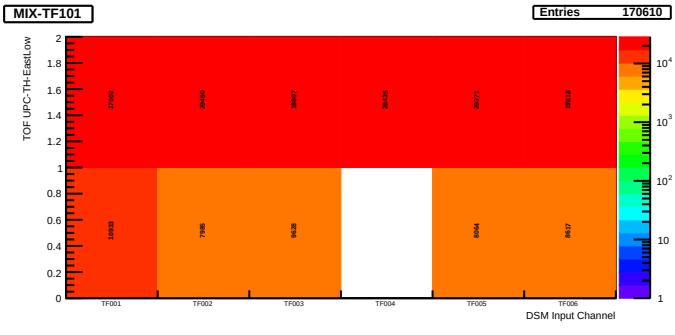

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

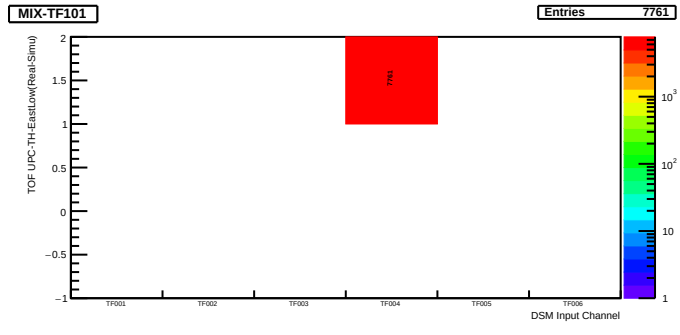

MIX-TF101
Entries 170610
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

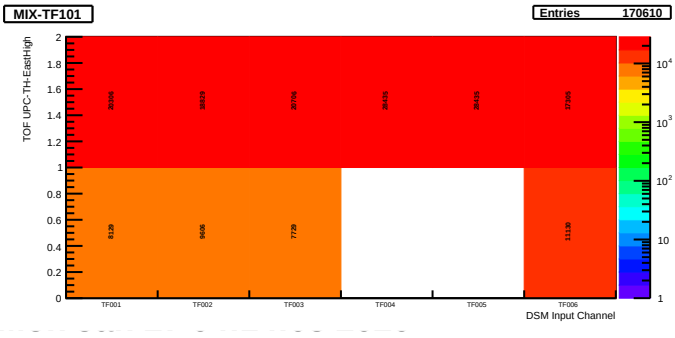

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

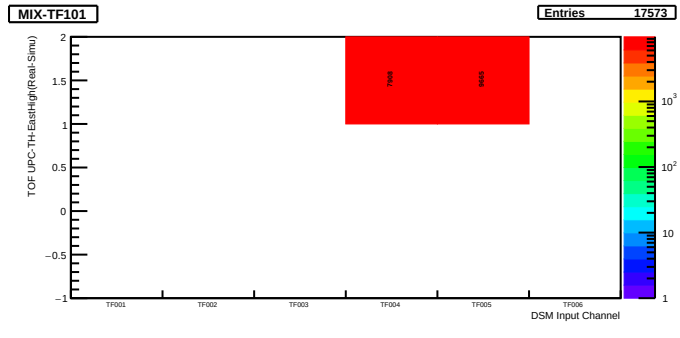

MIX-TF101
Entries 170610
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

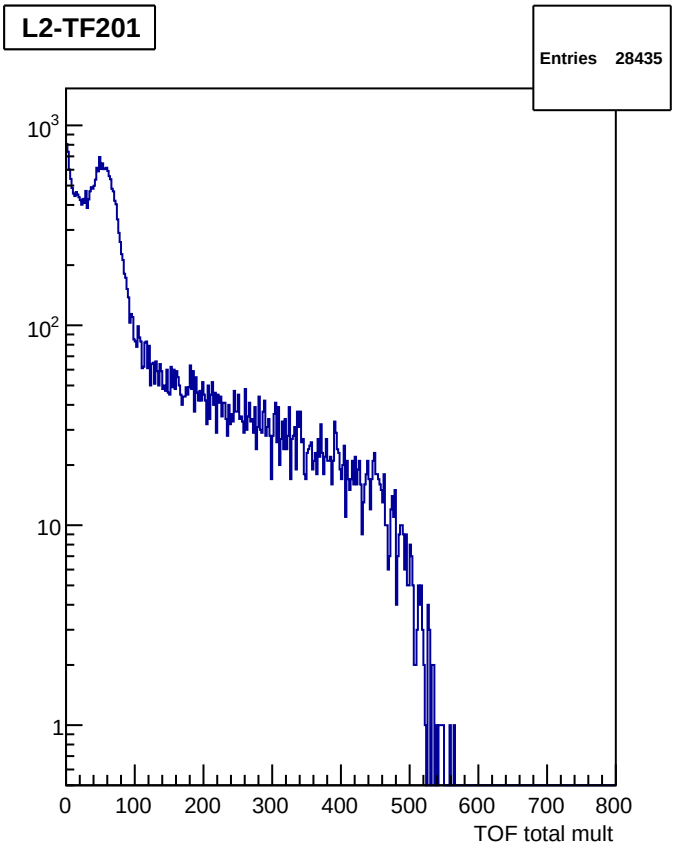

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

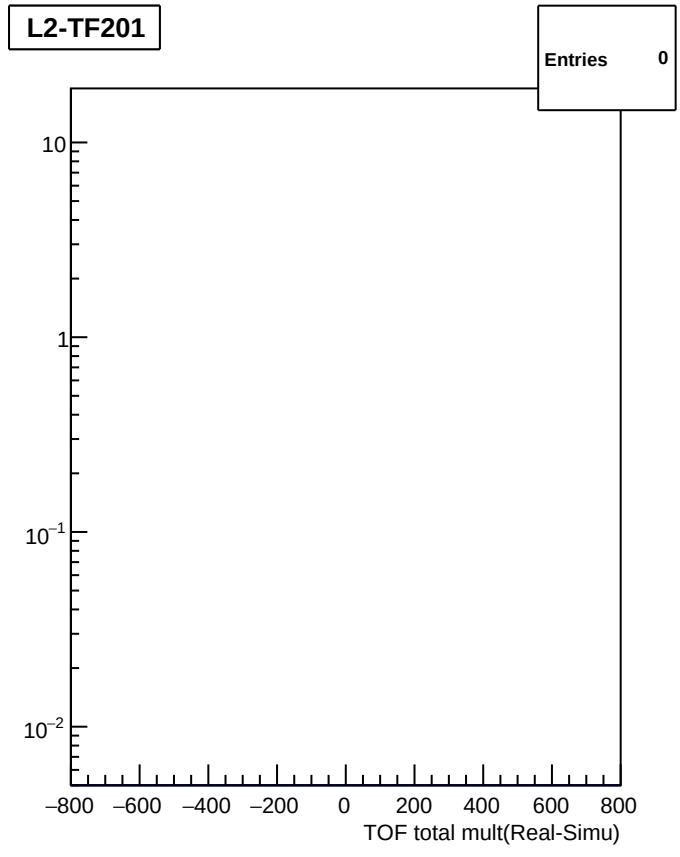

MIX-TF101
Entries 170610
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

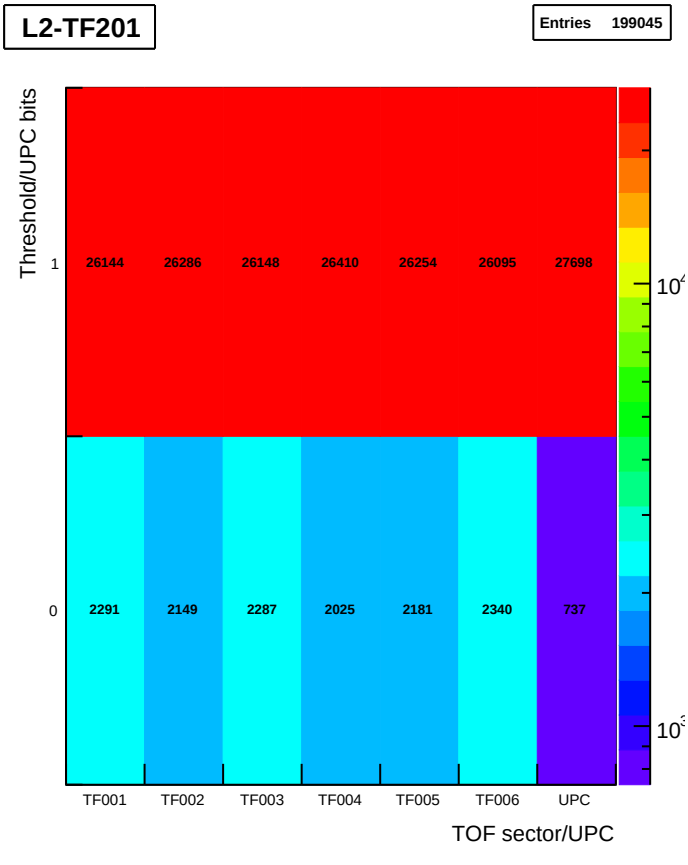

MIX-TF101
Entries 7761
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

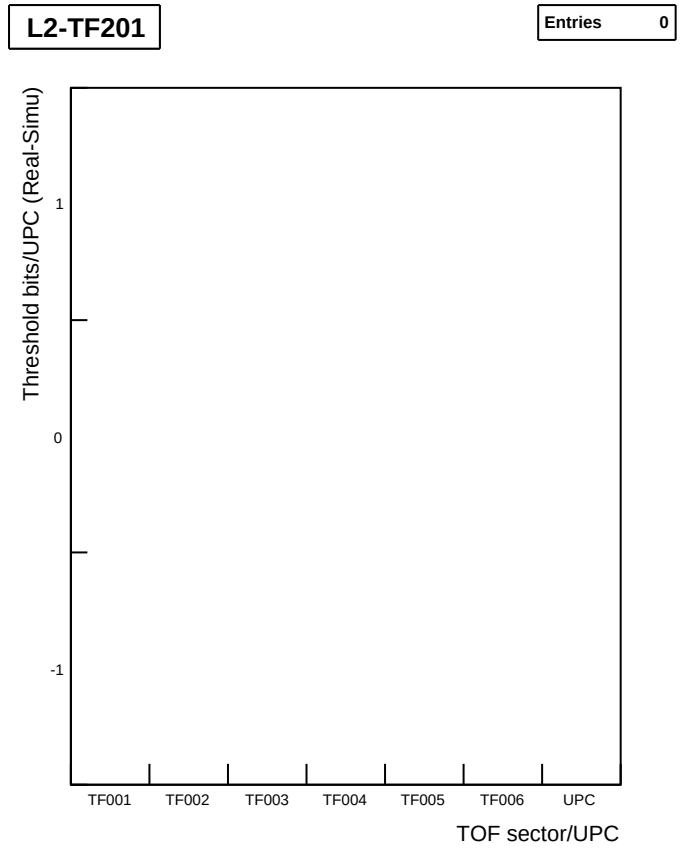

MIX-TF101
Entries 170610
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

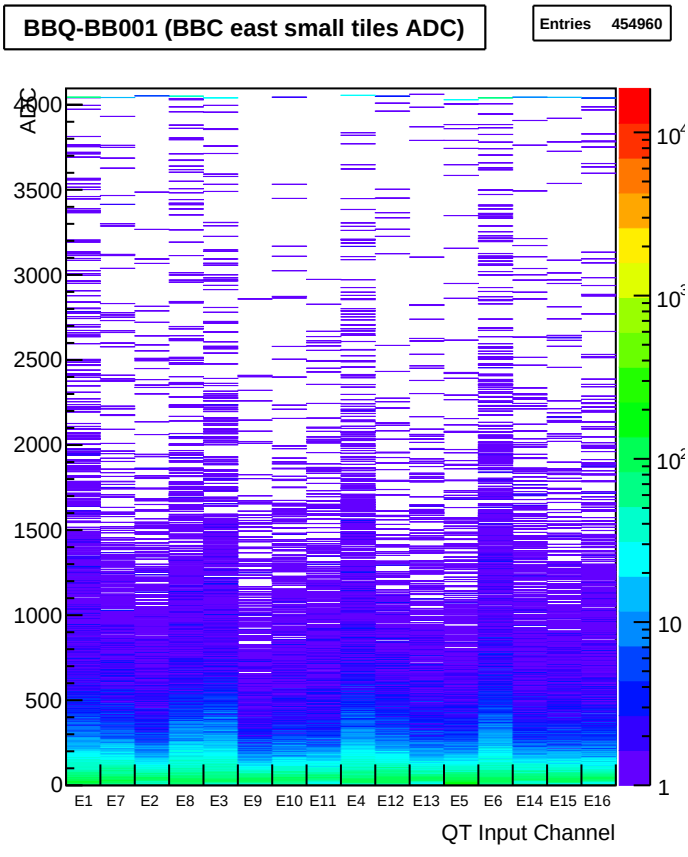

MIX-TF101
Entries 17573
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

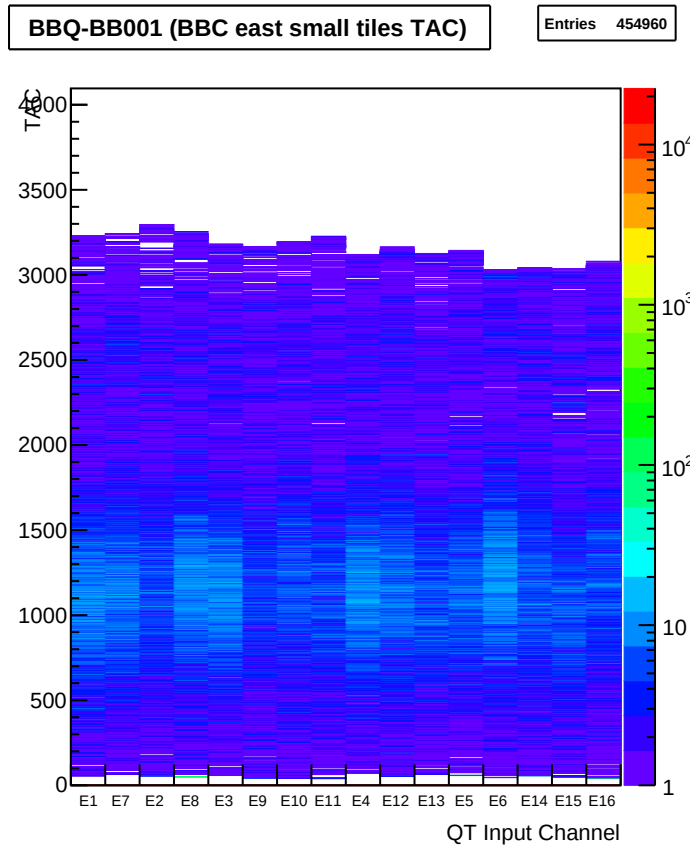

L2-TF201
Entries 28435
TOF total mult

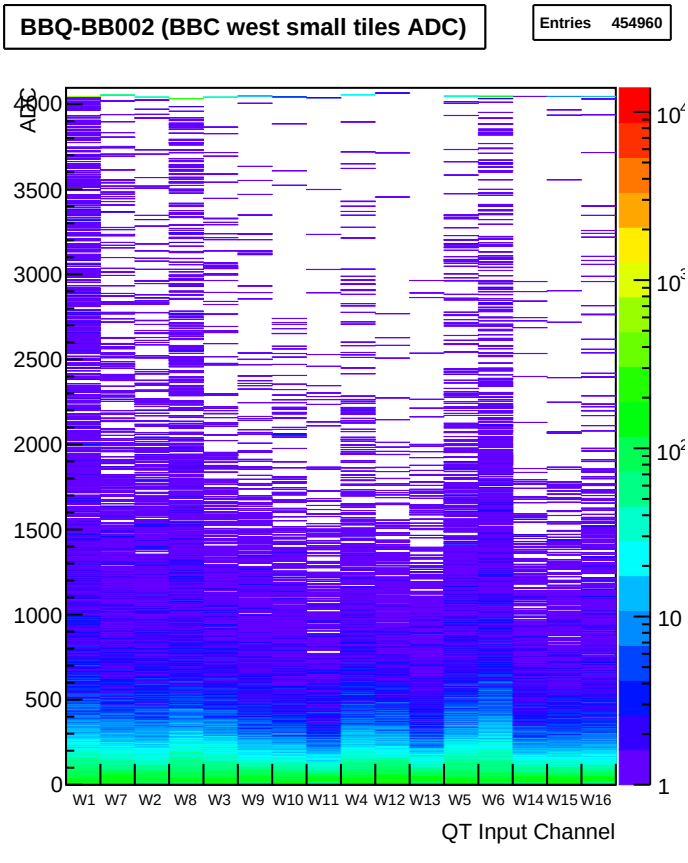

L2-TF201
Entries 0
TOF total mult(Real-Simu)

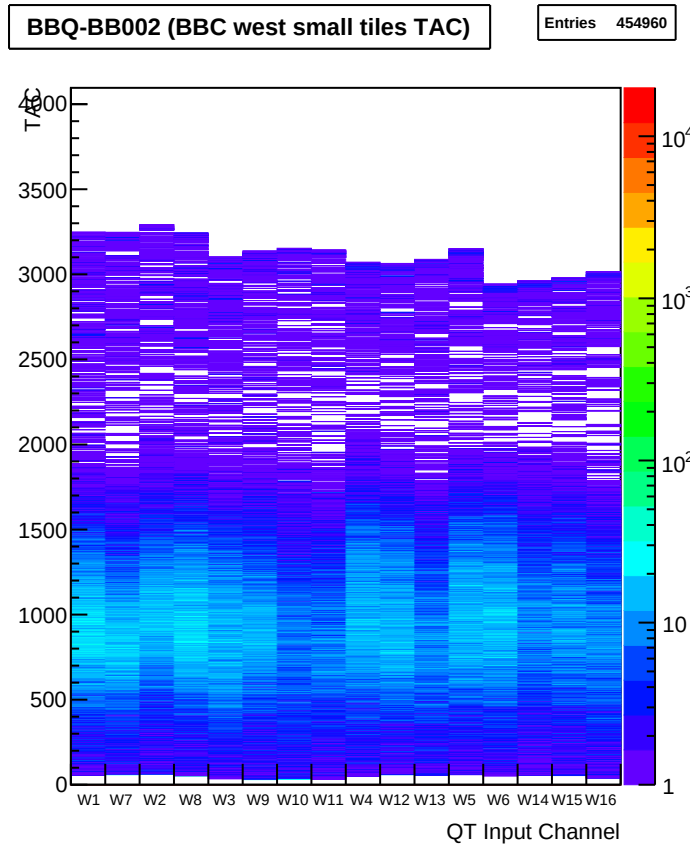

L2-TF201
Entries 199045
Threshold/UPC bits
26144
26286
26148
26410
26254
26095
27698
2291
2149
2287
2025
2181
2340
737
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

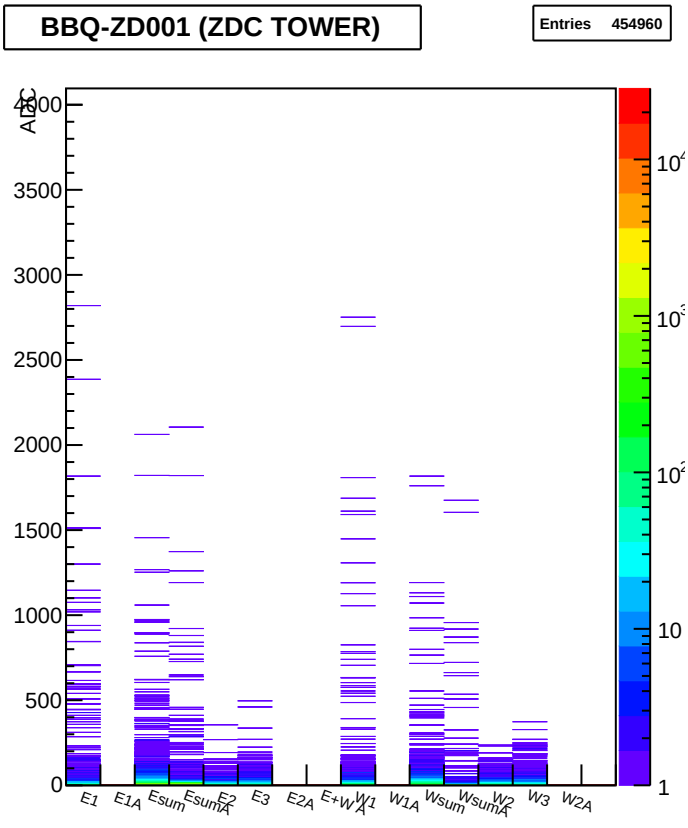

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

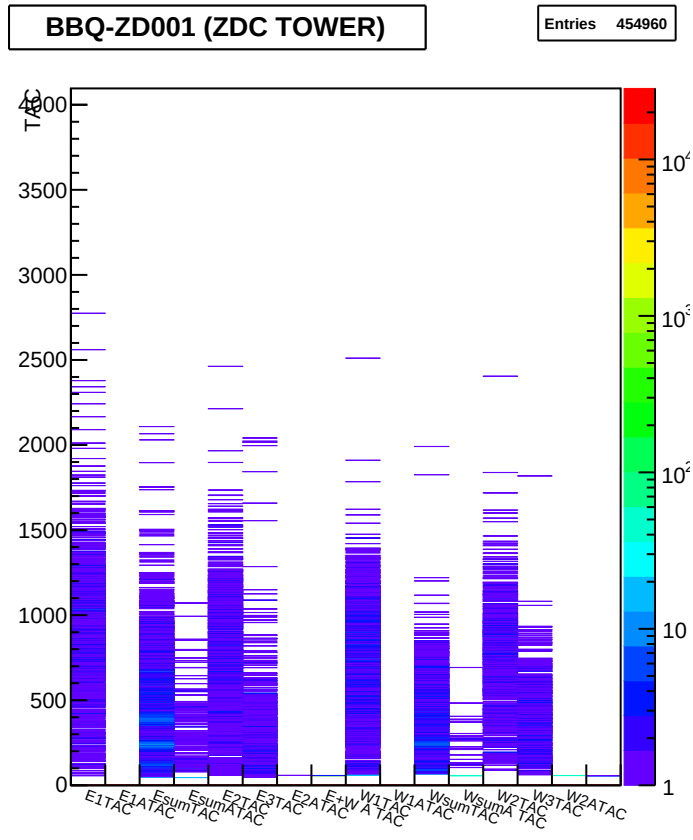

BBQ-BB001 (BBC east small tiles ADC)
Entries 454960
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

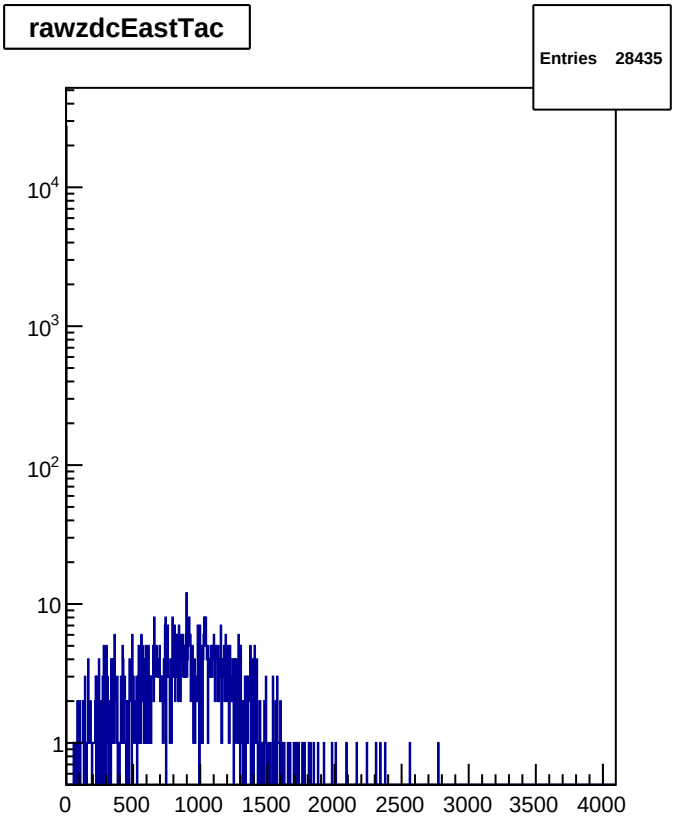

BBQ-BB001 (BBC east small tiles TAC)
Entries 454960
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

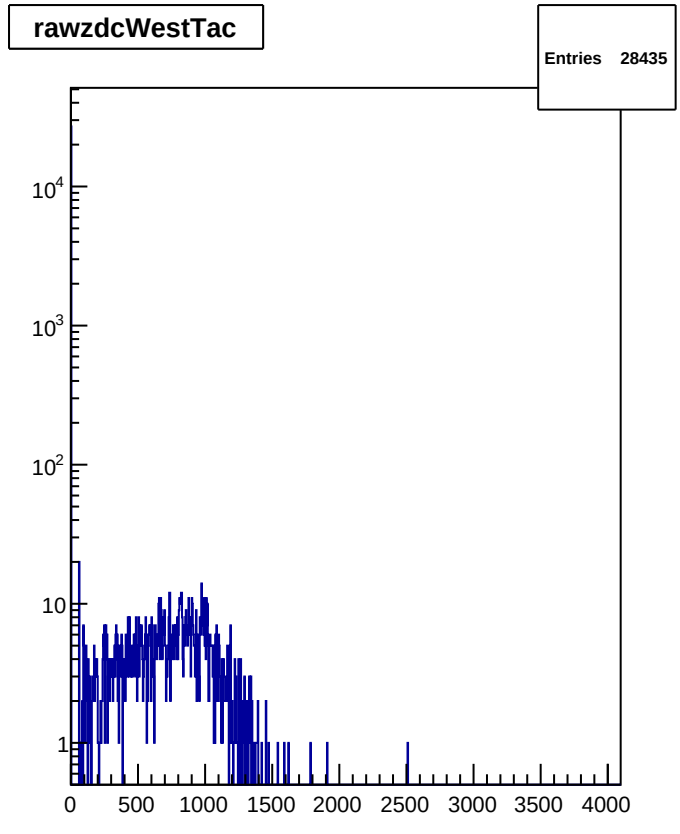

BBQ-BB002 (BBC west small tiles ADC)
Entries 454960
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

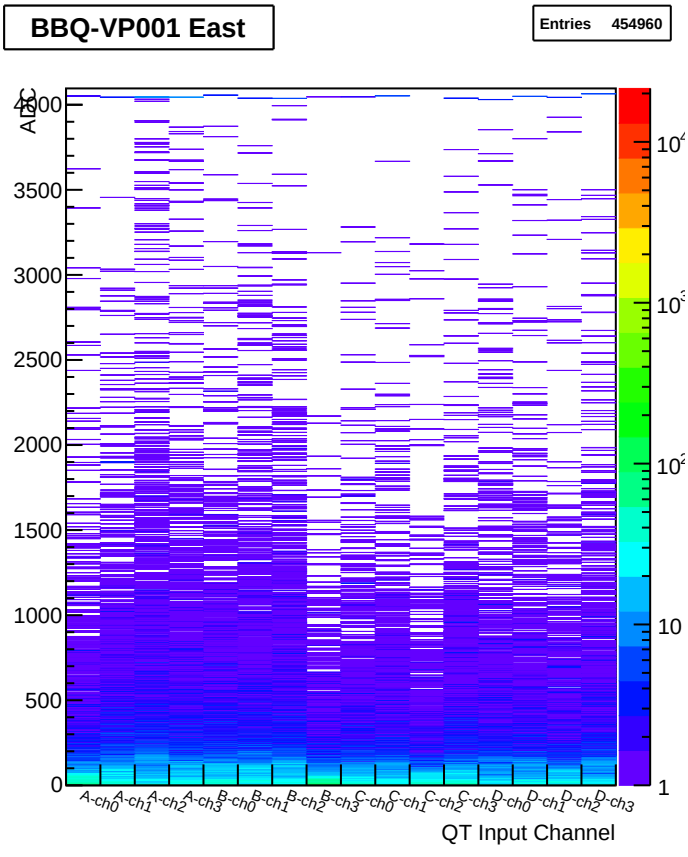

BBQ-BB002 (BBC west small tiles TAC)
Entries 454960
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

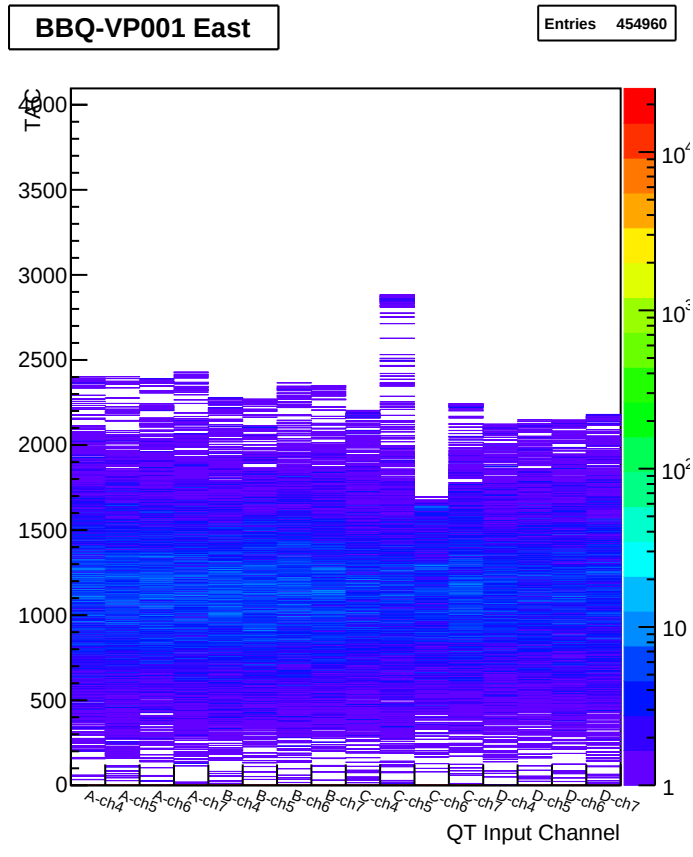

BBQ-ZD001 (ZDC TOWER)
Entries 454960
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W A
W1
W1A
Wsum
WsumA
W2
W3
W2A

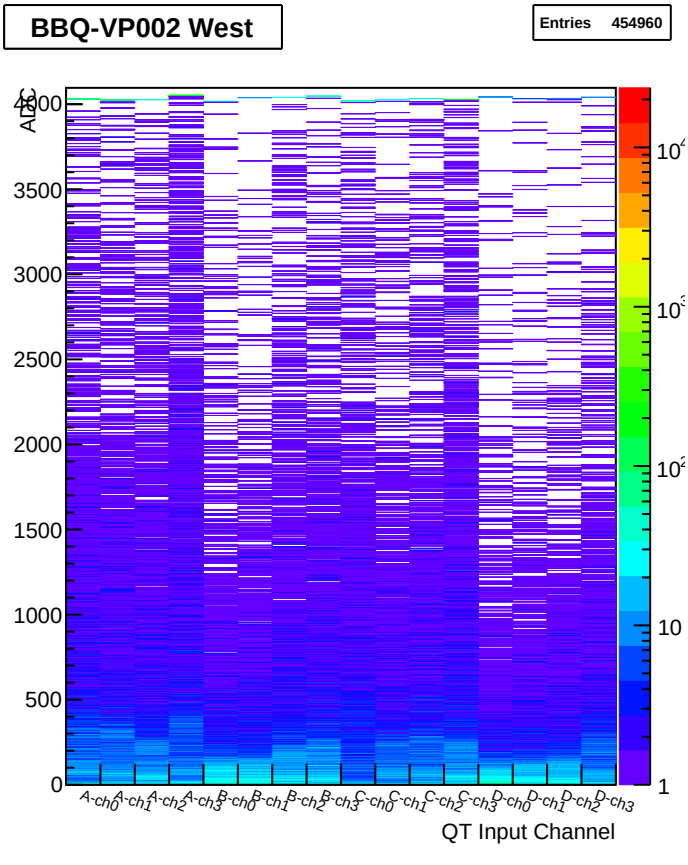

BBQ-ZD001 (ZDC TOWER)
Entries 454960
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

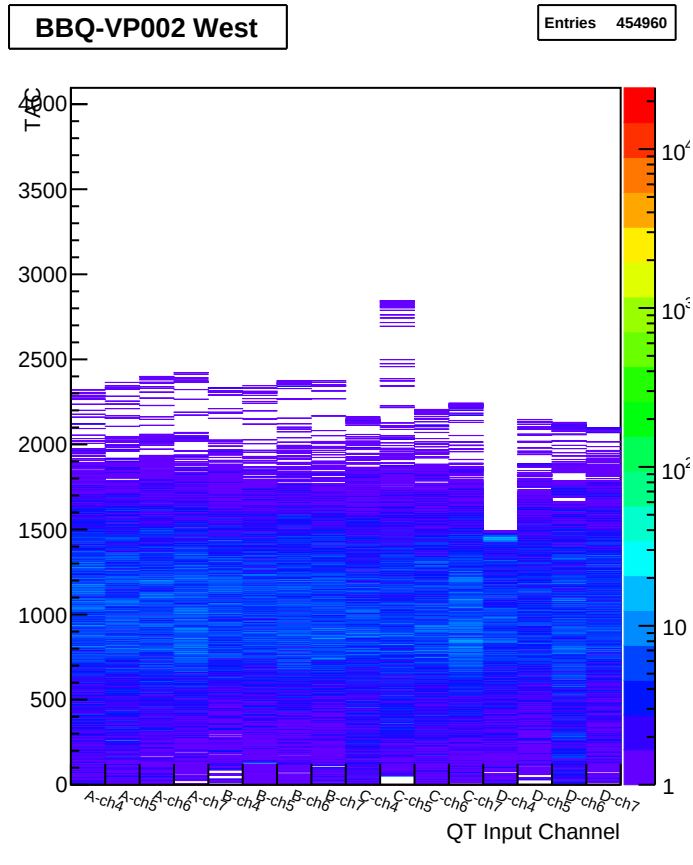

rawzdcEastTac
Entries 28435

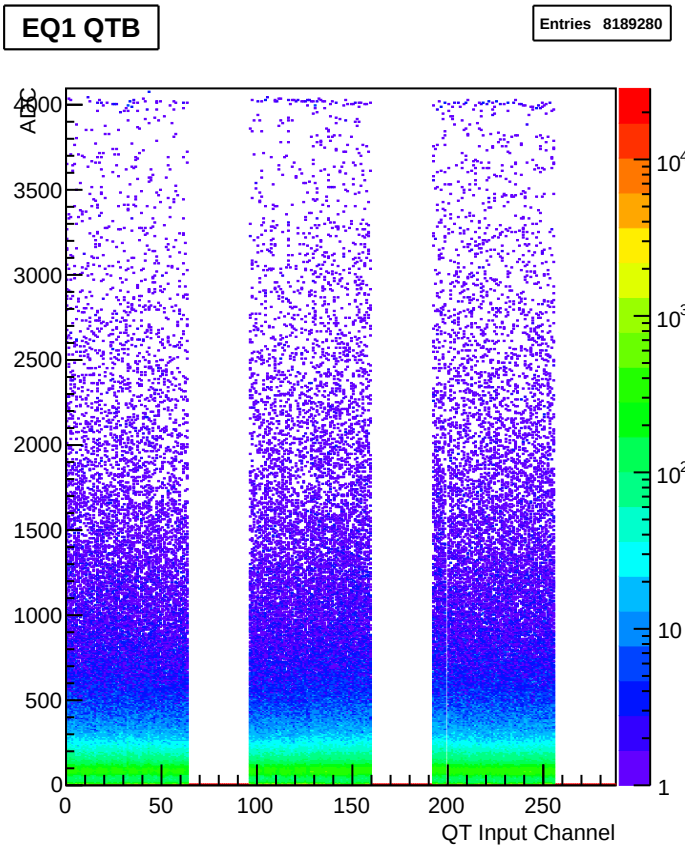

rawzdcWestTac
Entries 28435

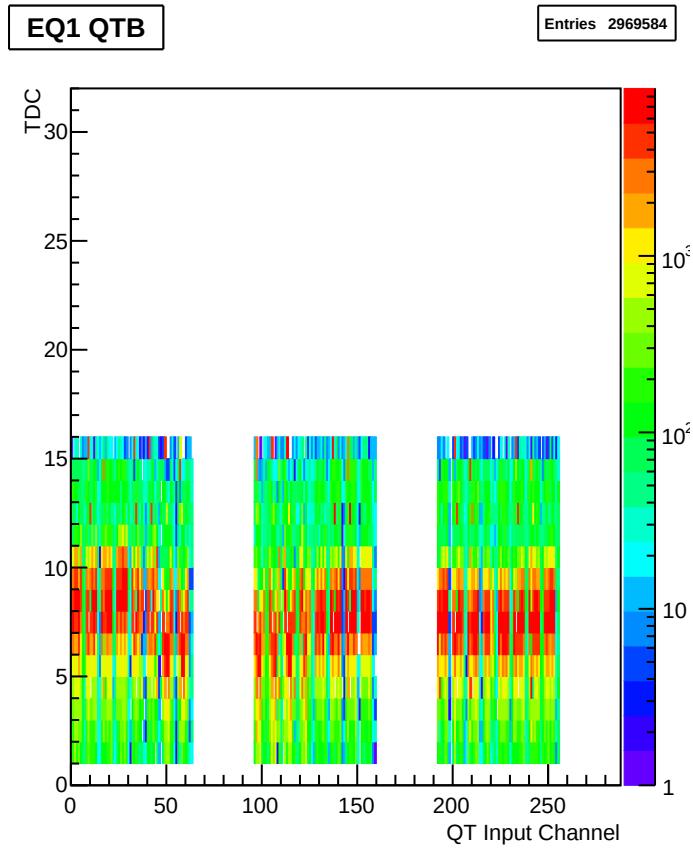

BBQ-VP001 East
Entries 454960
ADC
QT Input Channel

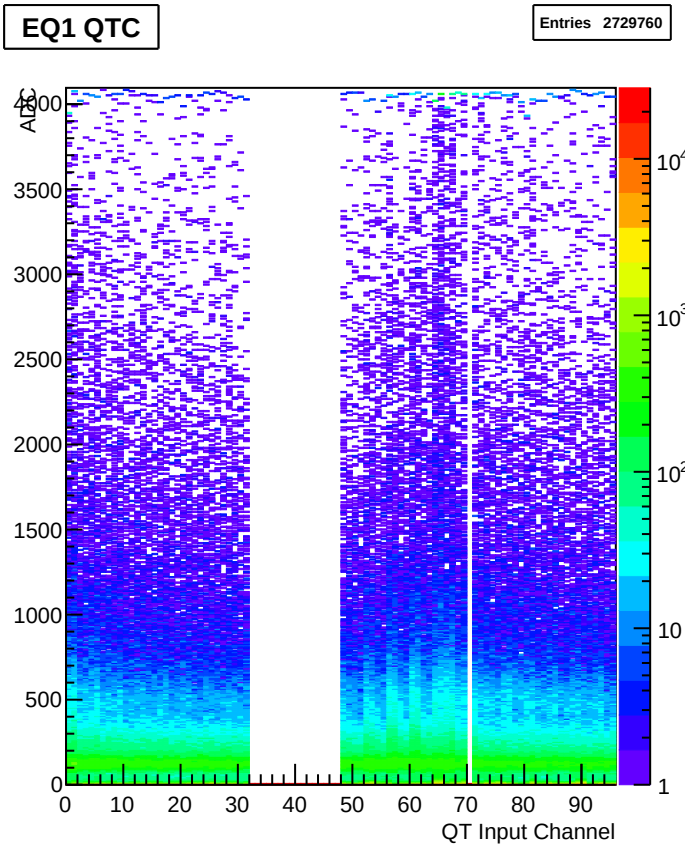

BBQ-VP001 East
Entries 454960
TADC
QT Input Channel

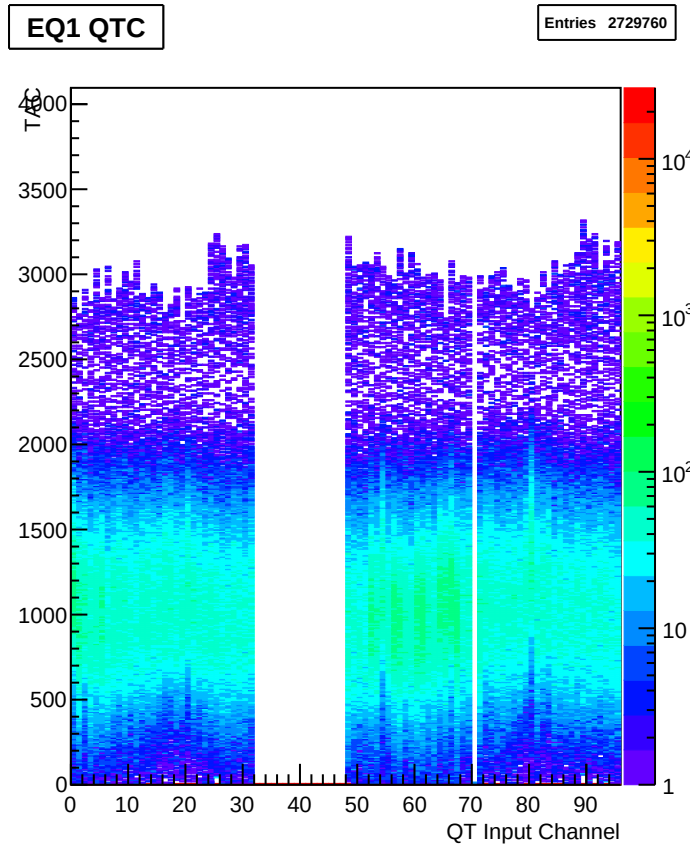

BBQ-VP002 West
Entries 454960
ADC
QT Input Channel

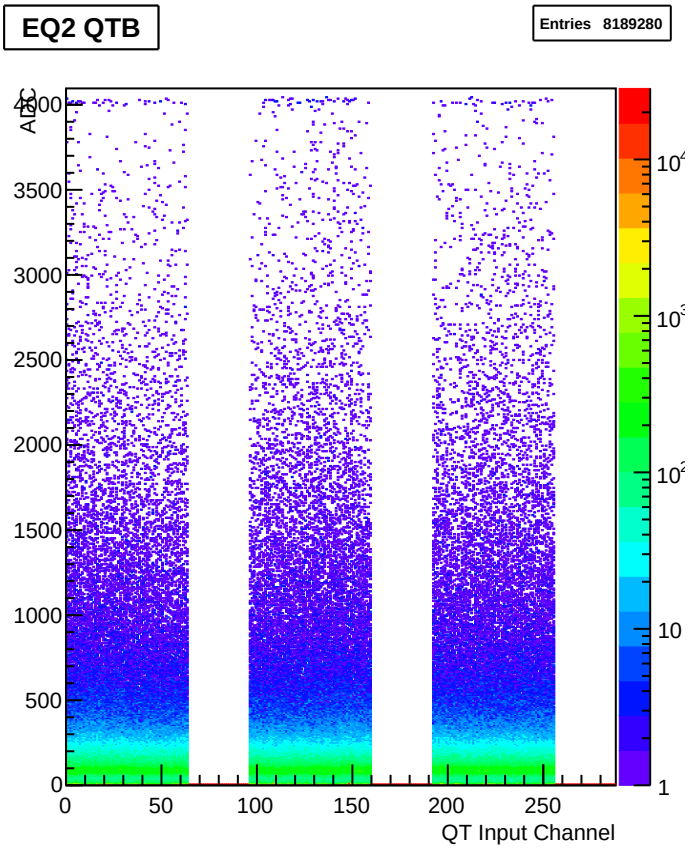

BBQ-VP002 West
Entries 454960
TADC
QT Input Channel

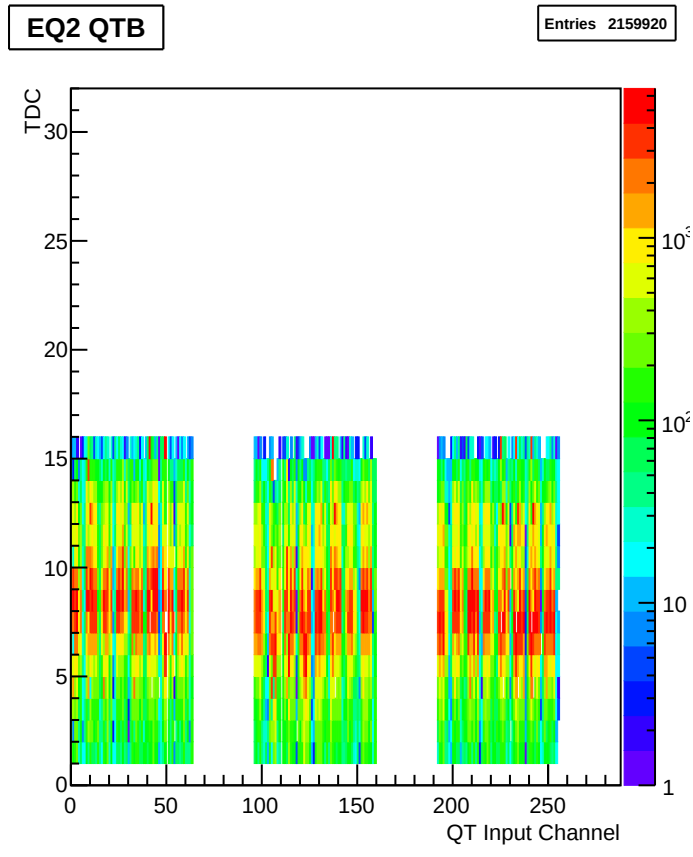

EQ1 QTB
Entries 8189280
ADC
QT Input Channel

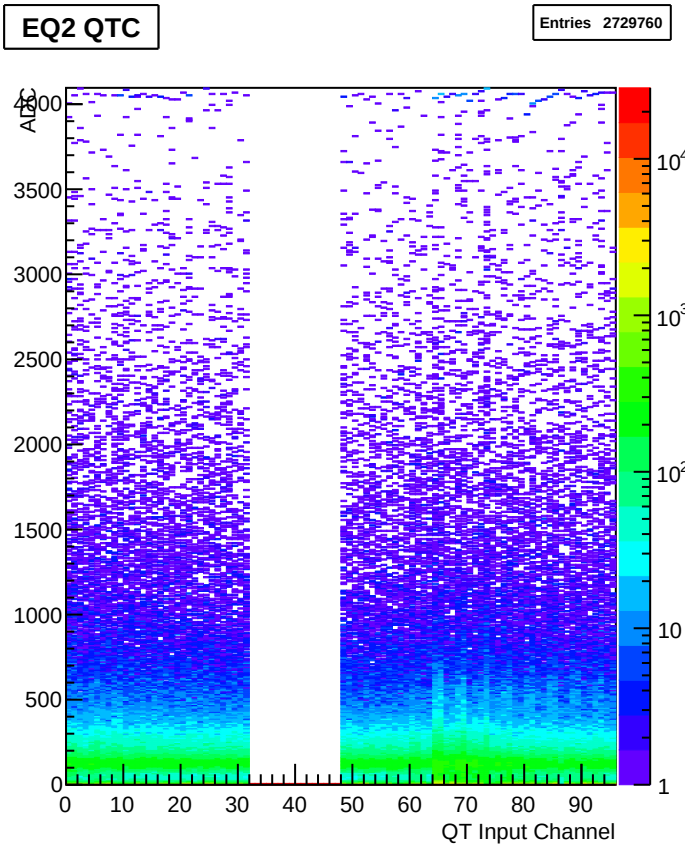

EQ1 QTB
Entries 2969584
TDC
QT Input Channel

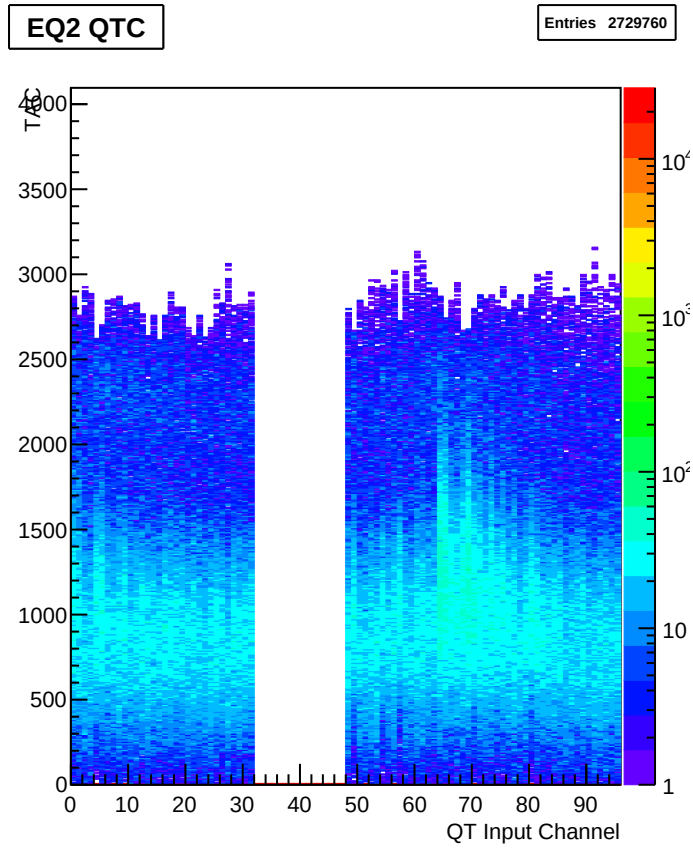

EQ1 QTC
Entries 2729760
ADC
QT Input Channel

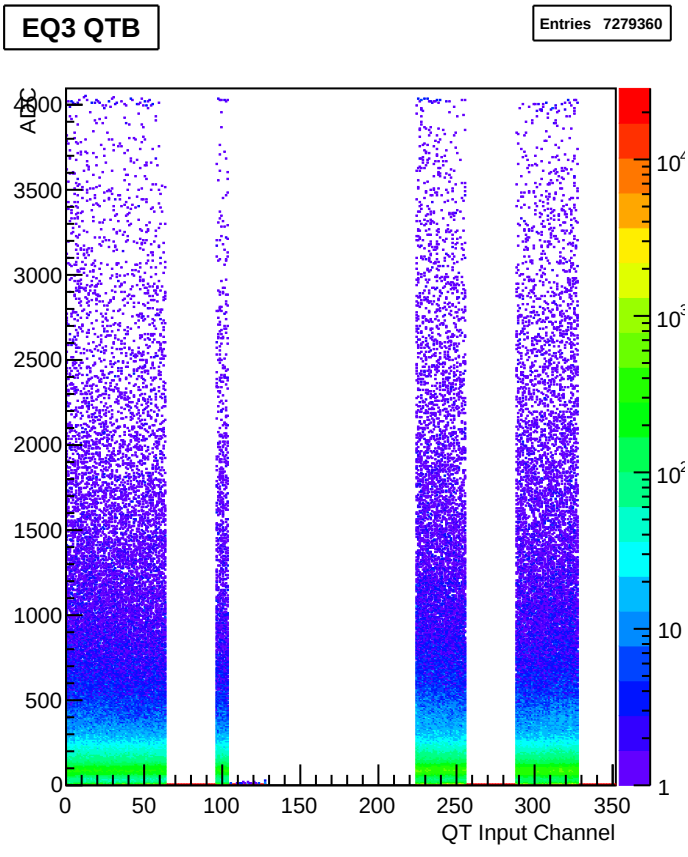

EQ1 QTC
Entries 2729760
TADC
QT Input Channel

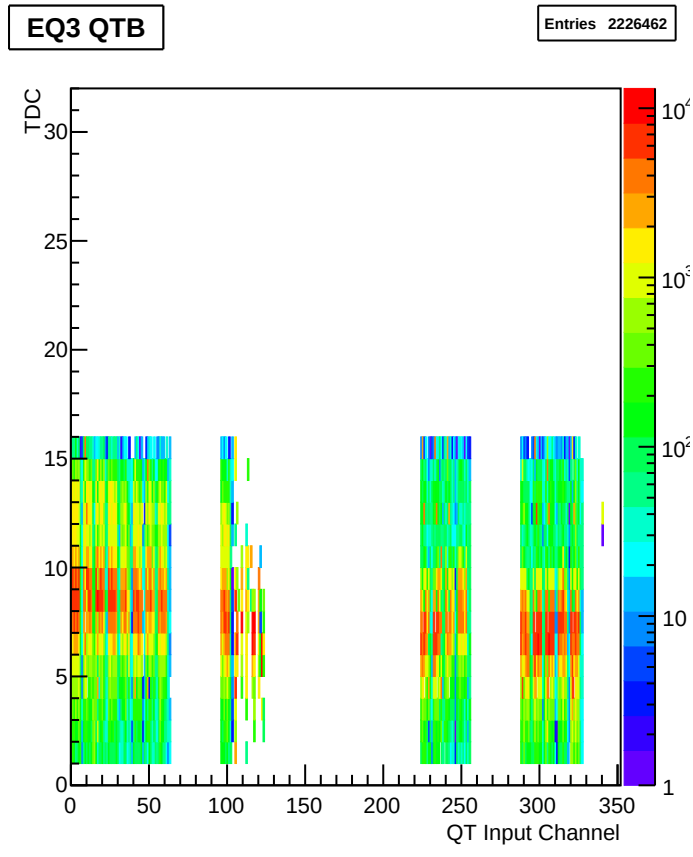

EQ2 QTB
Entries 8189280
ADC
QT Input Channel

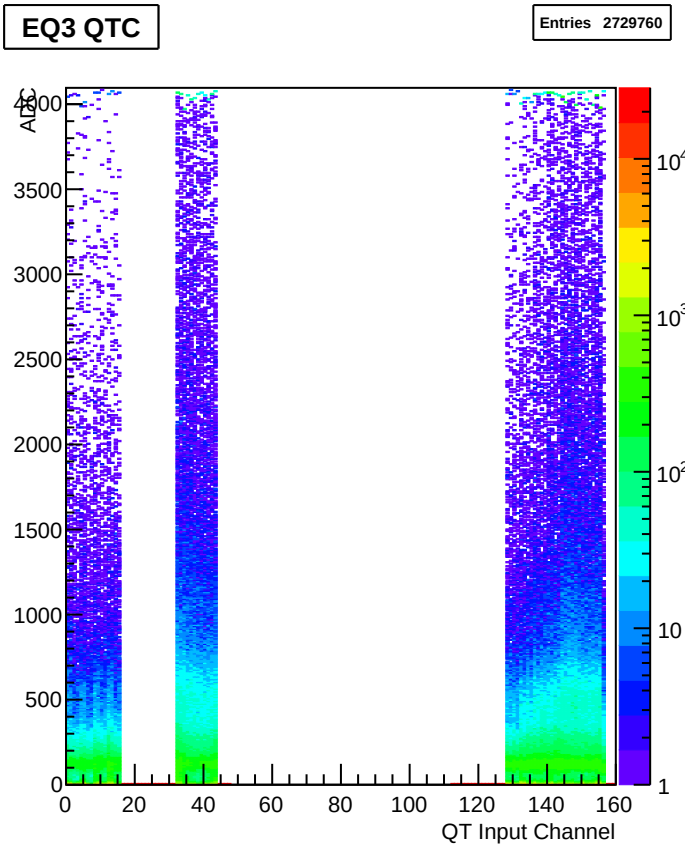

EQ2 QTB
Entries 2159920
TDC
QT Input Channel

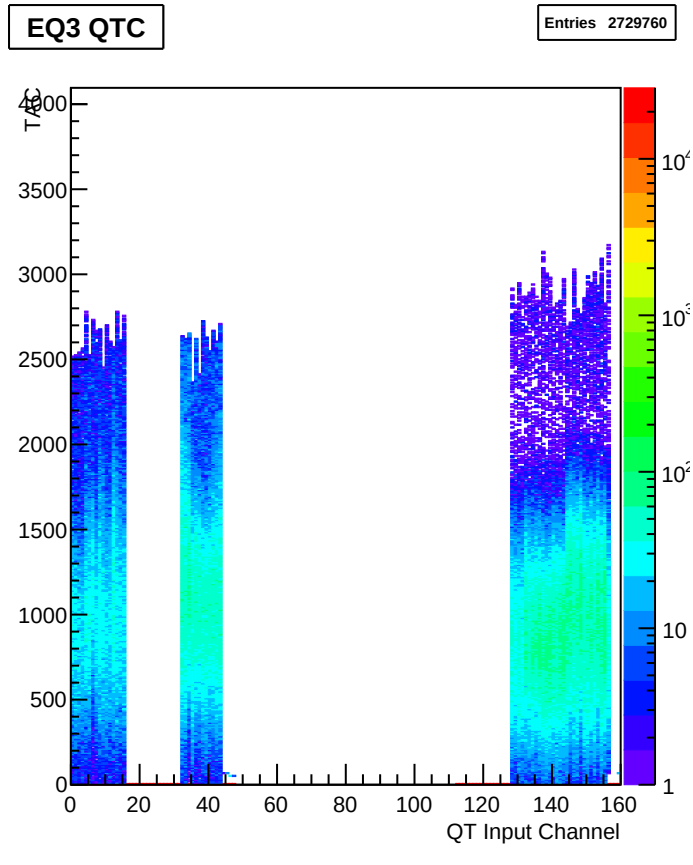

EQ2 QTC
Entries 2729760
ADC
QT Input Channel

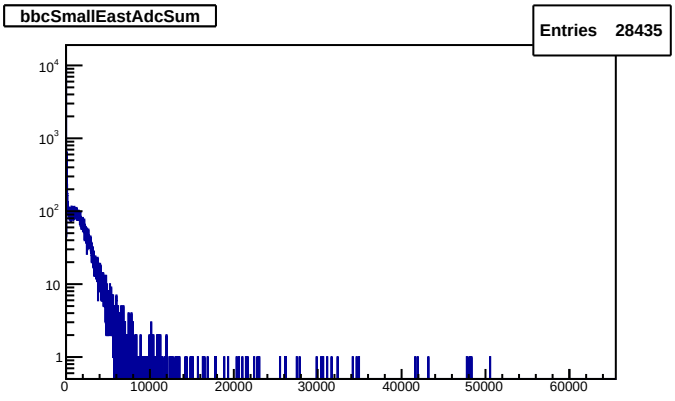

EQ2 QTC
Entries 2729760
TADC
QT Input Channel

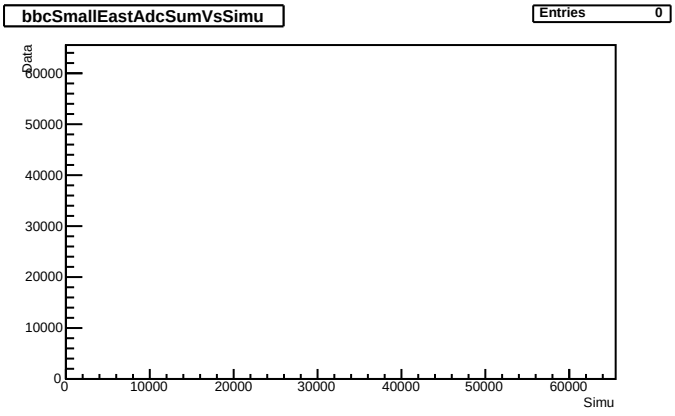

EQ3 QTB
Entries 7279360
ADC
QT Input Channel

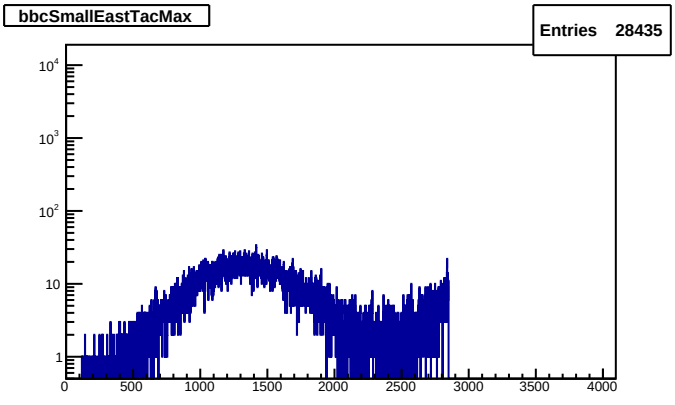

EQ3 QTB
Entries 2226462
TDC
QT Input Channel

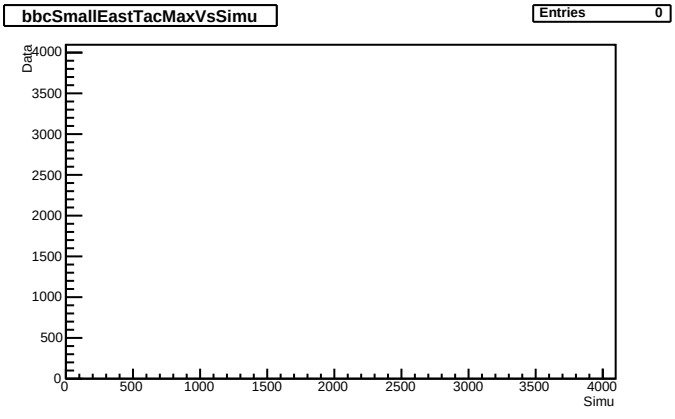

EQ3 QTC
Entries 2729760
ADC
QT Input Channel

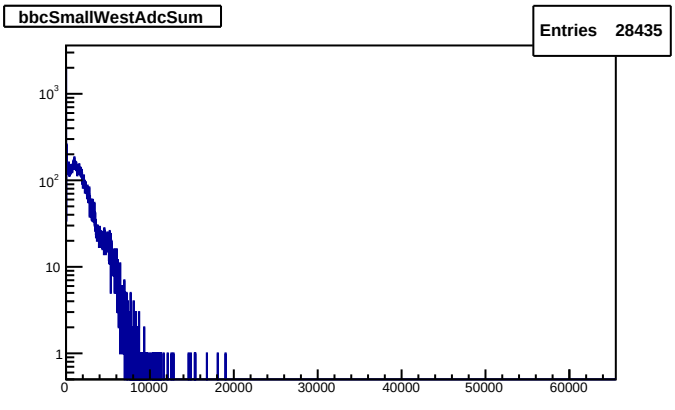

EQ3 QTC
Entries 2729760
TADC
QT Input Channel

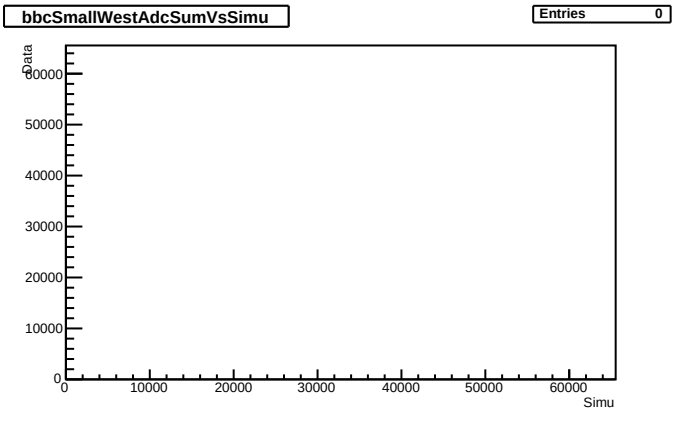

bbcSmallEastAdcSum
Entries 28435

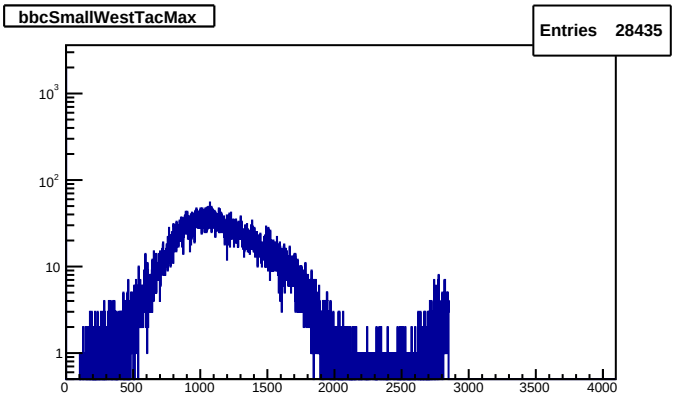

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

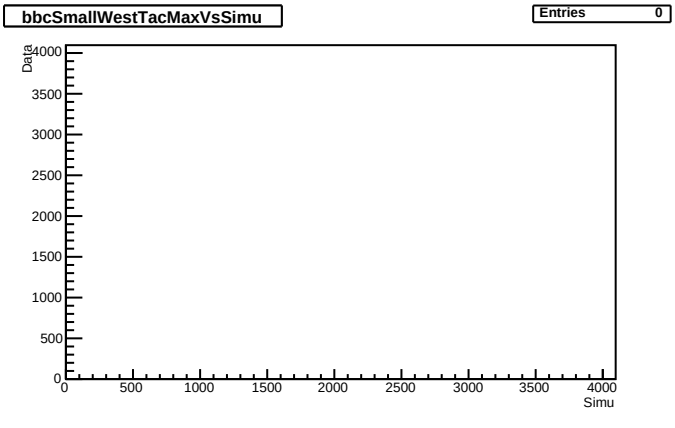

bbcSmallEastTacMax
Entries 28435

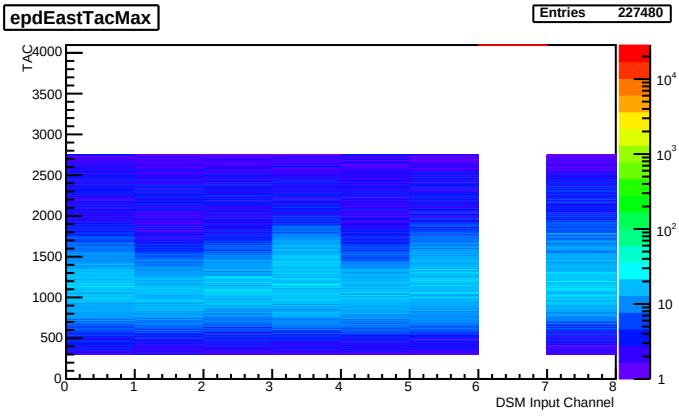

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

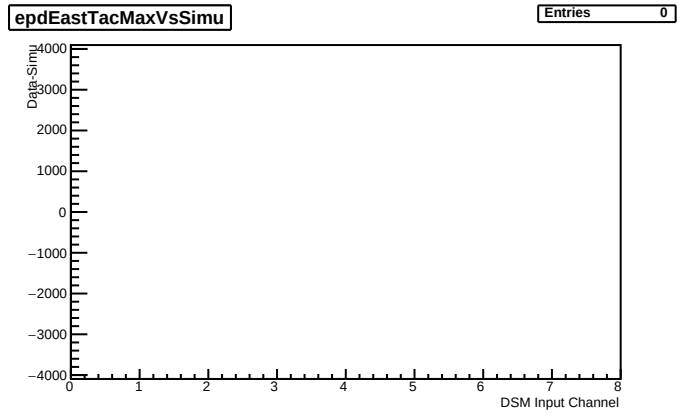

bbcSmallWestAdcSum
Entries 28435

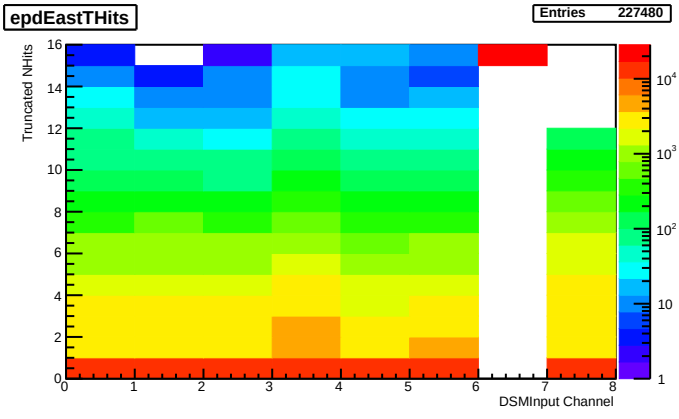

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

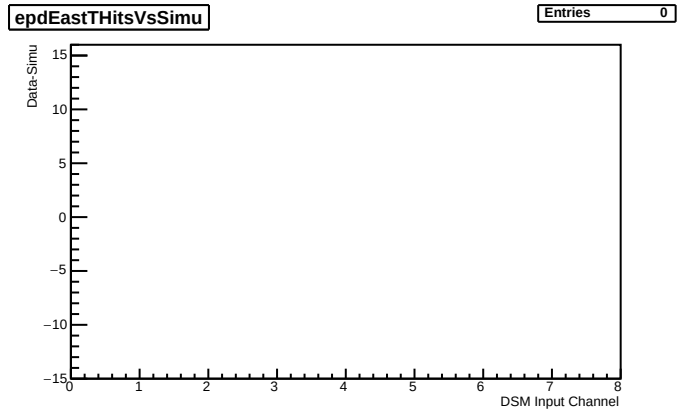

bbcSmallWestTacMax
Entries 28435

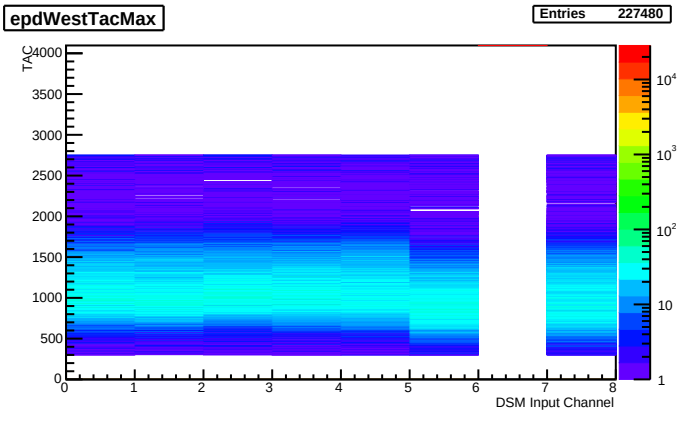

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

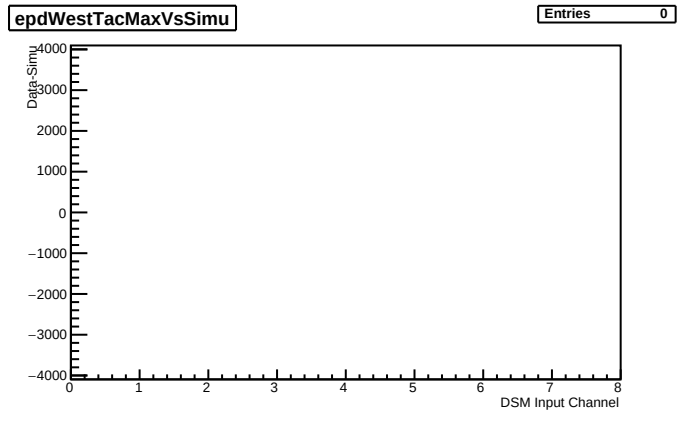

epdEastTacMax
Entries 227480
TAC
DSM Input Channel

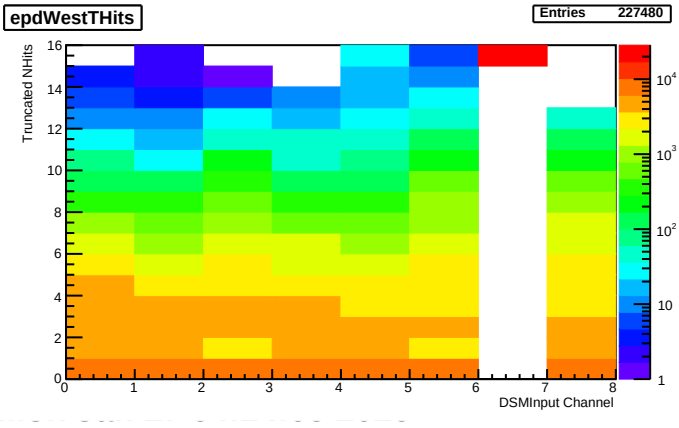

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

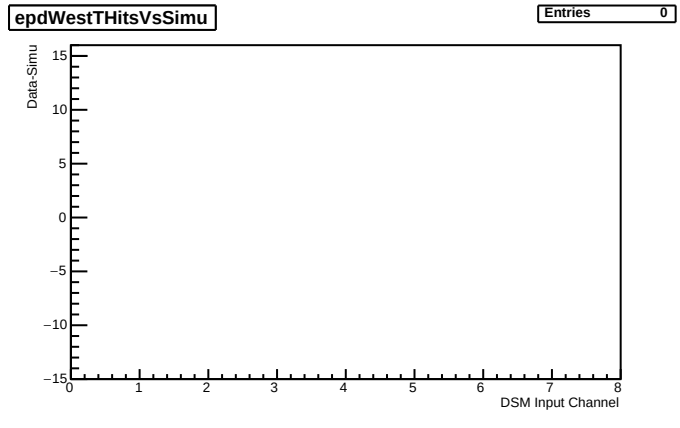

epdEastTHits
Entries 227480
Truncated NHits
DSMInput Channel

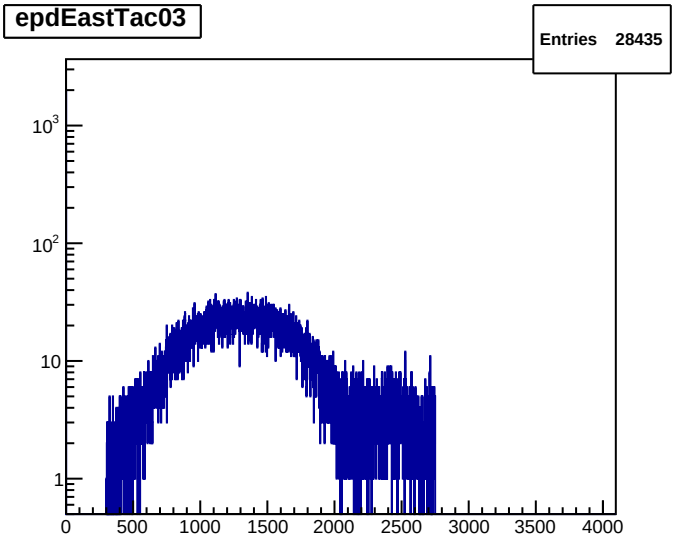

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

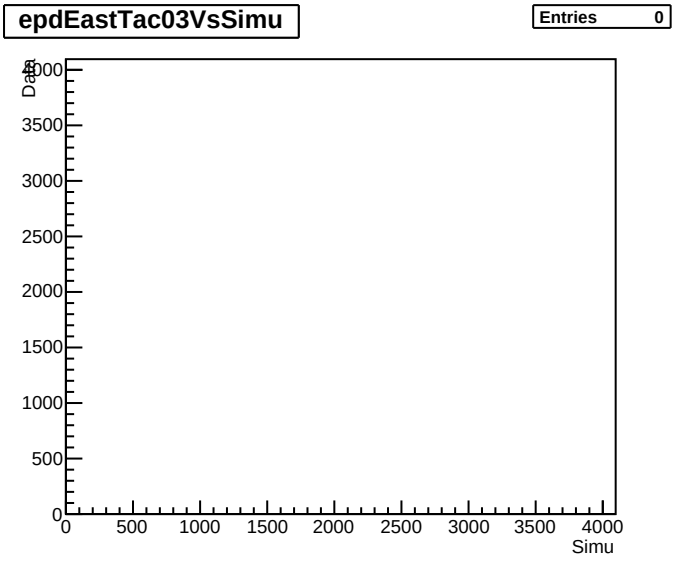

epdWestTacMax
Entries 227480
TAC
DSM Input Channel

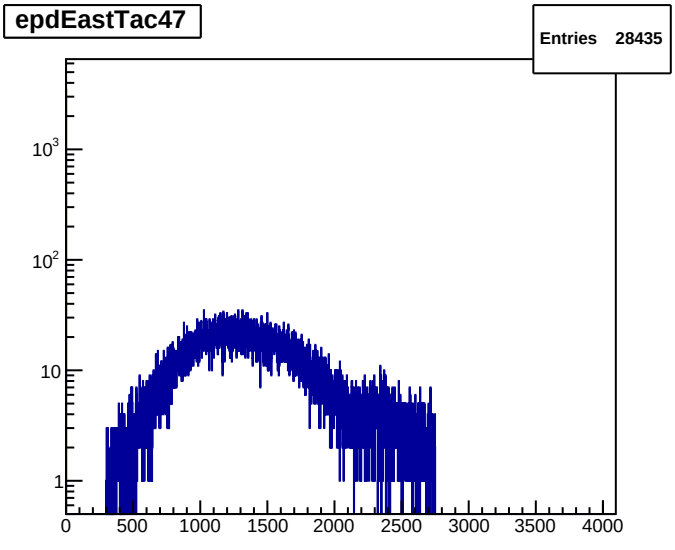

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

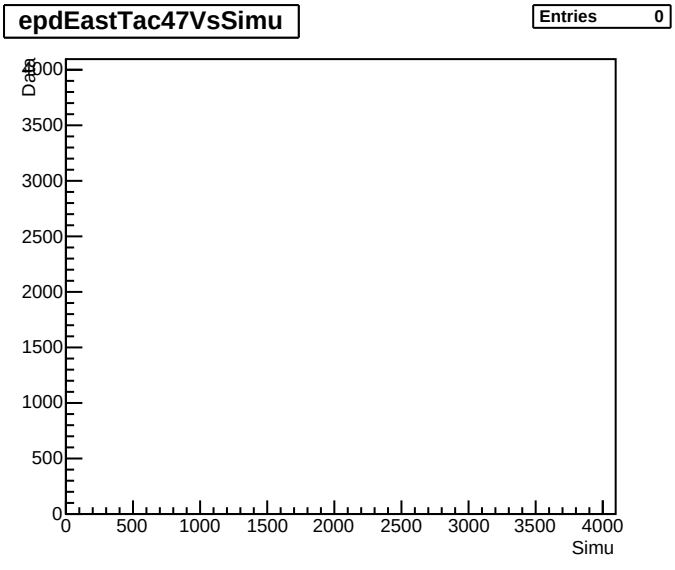

epdWestTHits
Entries 227480
Truncated NHits
DSMInput Channel

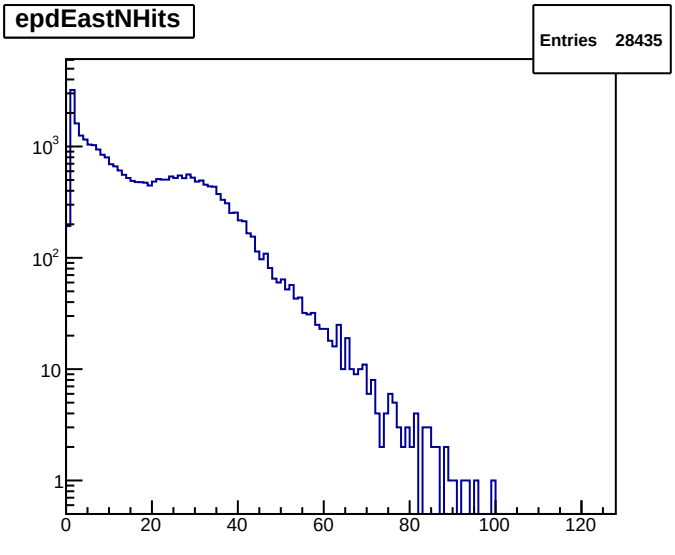

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

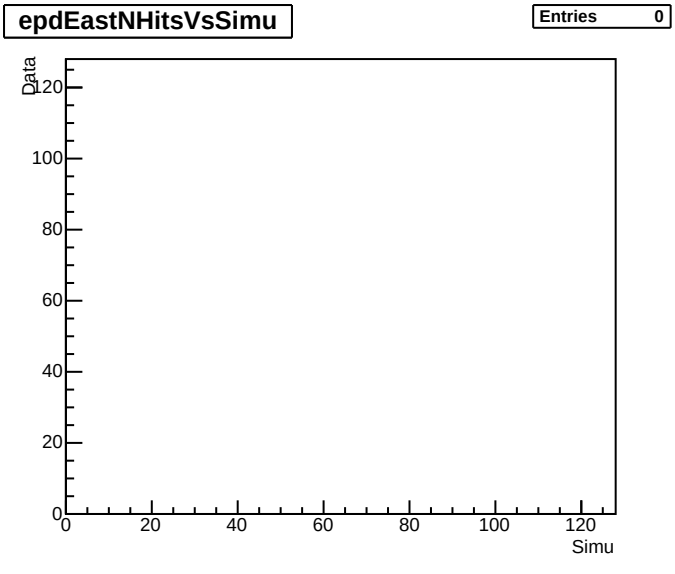

epdEastTac03
Entries 28435

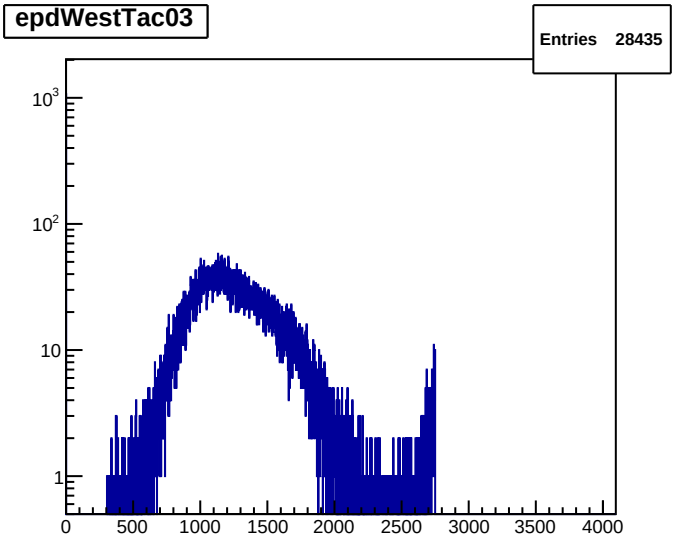

epdEastTac03VsSimu
Entries 0
Data
Simu

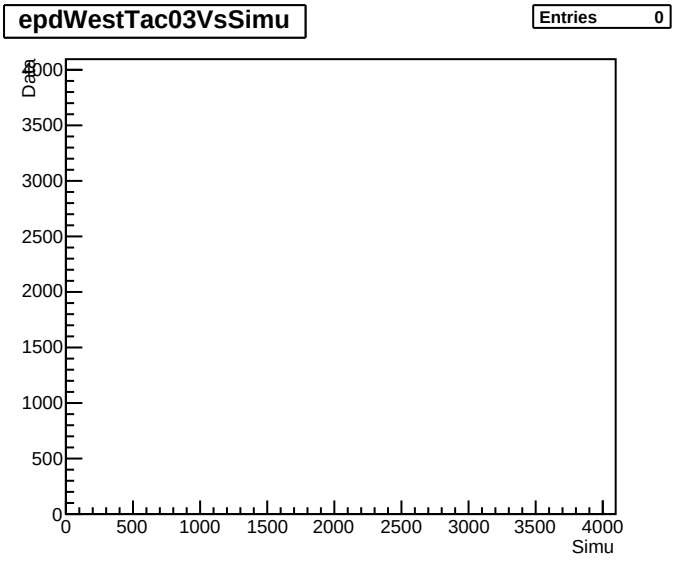

epdEastTac47
Entries 28435

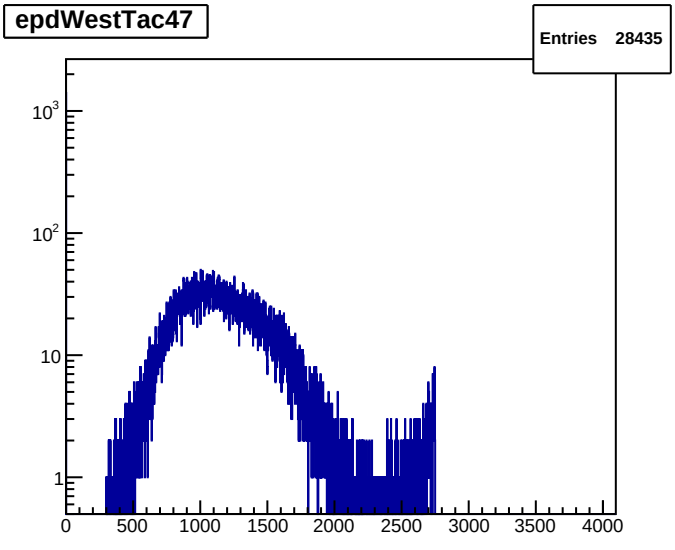

epdEastTac47VsSimu
Entries 0
Data
Simu

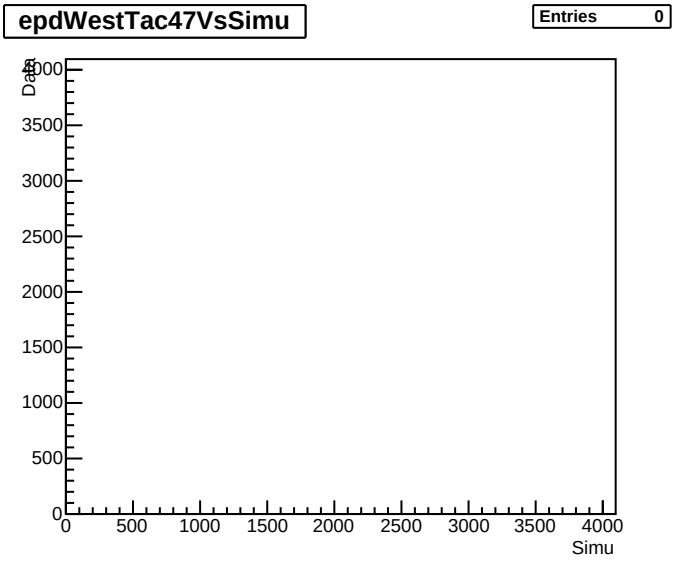

epdEastNHits
Entries 28435

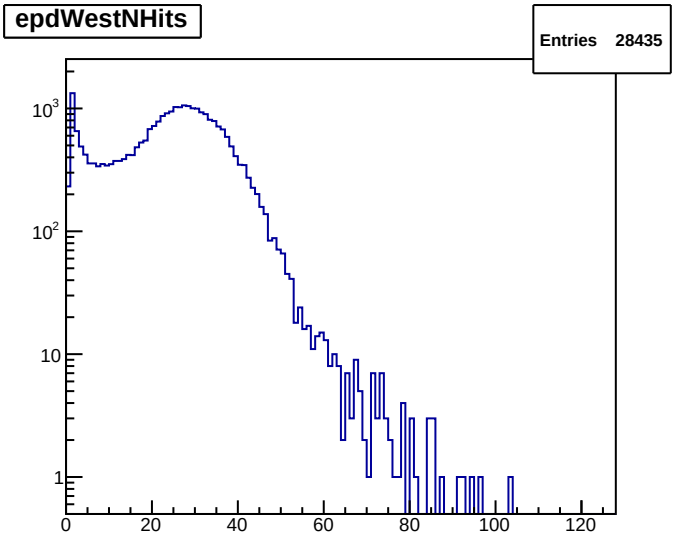

epdEastNHitsVsSimu
Entries 0
Data
Simu

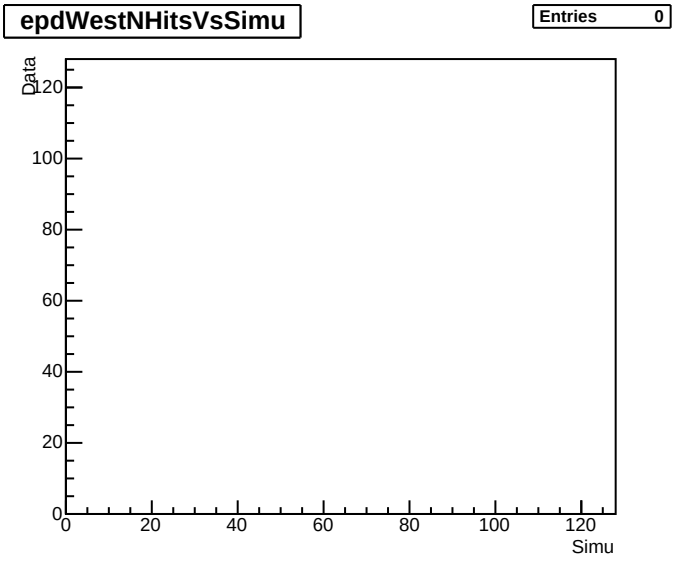

epdWestTac03
Entries 28435

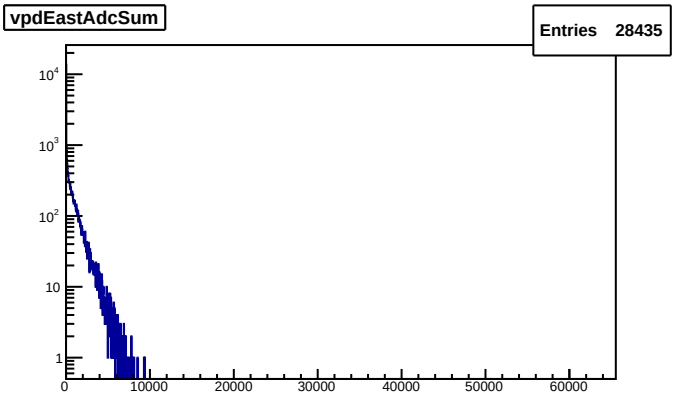

epdWestTac03VsSimu
Entries 0
Data
Simu

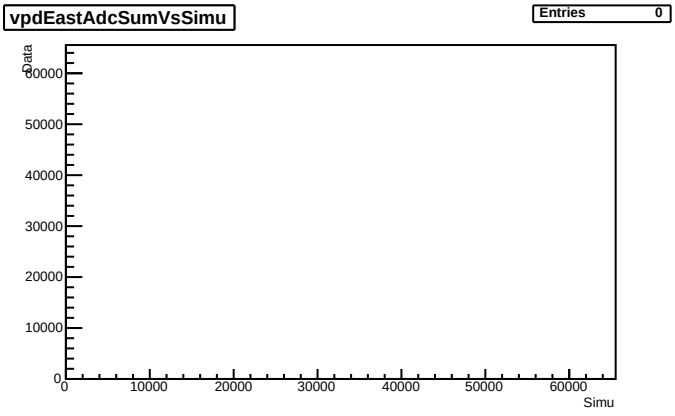

epdWestTac47
Entries 28435

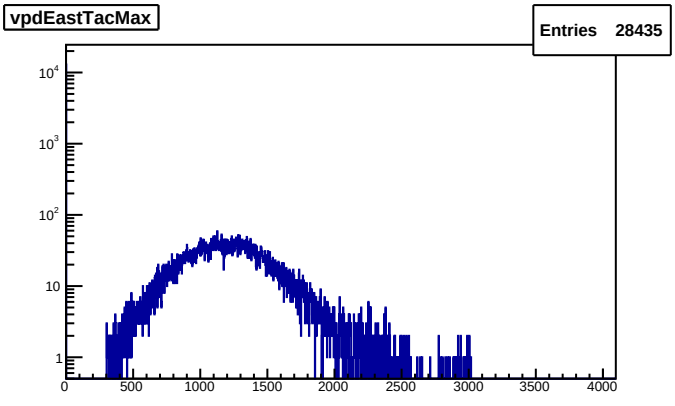

epdWestTac47VsSimu
Entries 0
Data
Simu

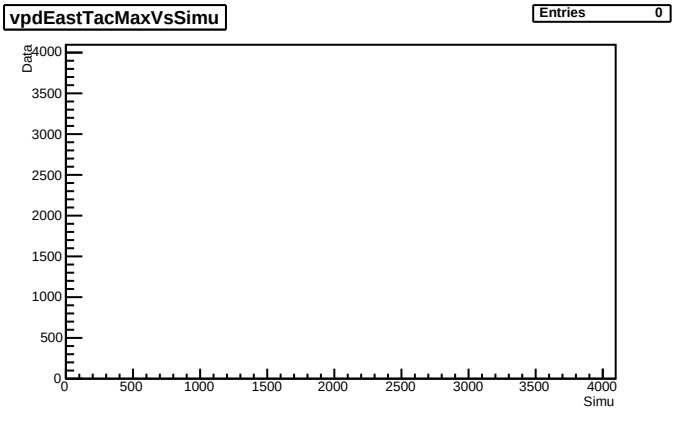

epdWestNHits
Entries 28435

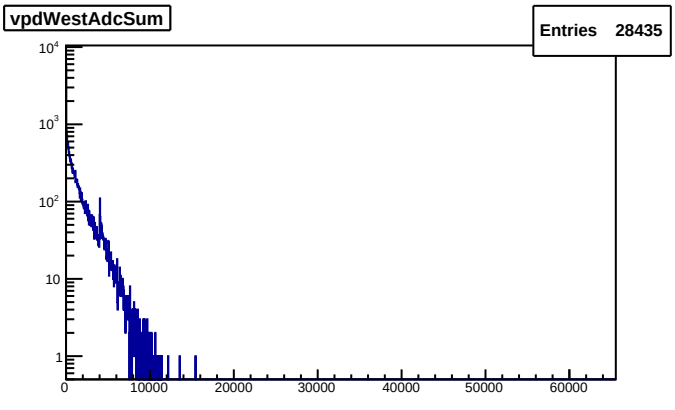

epdWestNHitsVsSimu
Entries 0
Data
Simu

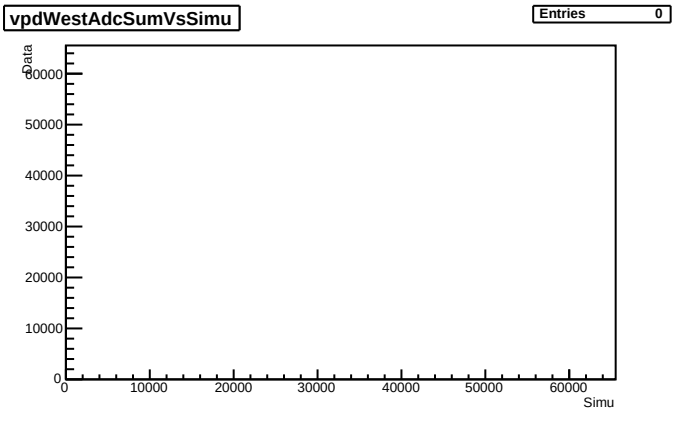

vpdEastAdcSum
Entries 28435

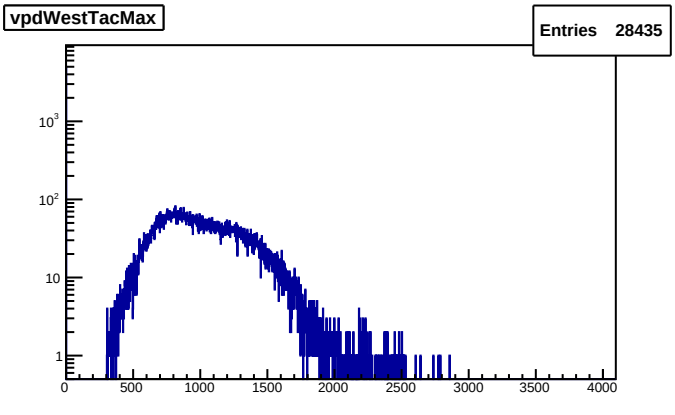

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

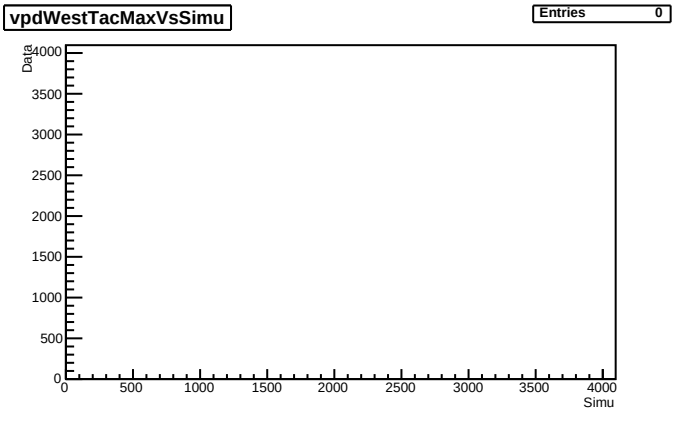

vpdEastTacMax
Entries 28435

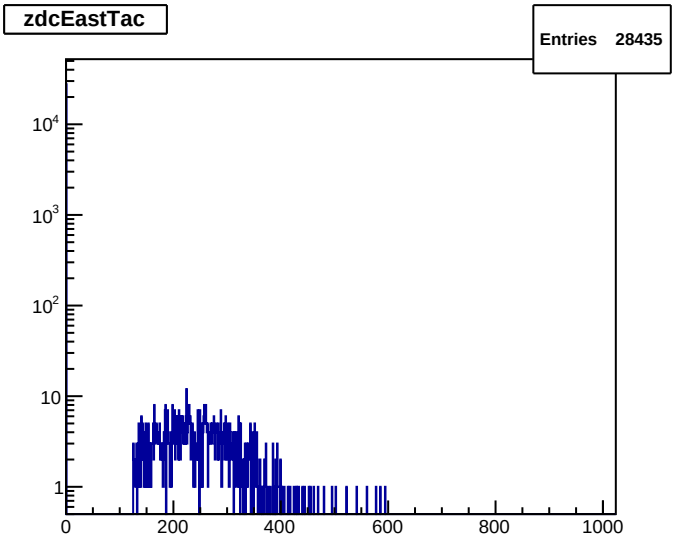

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

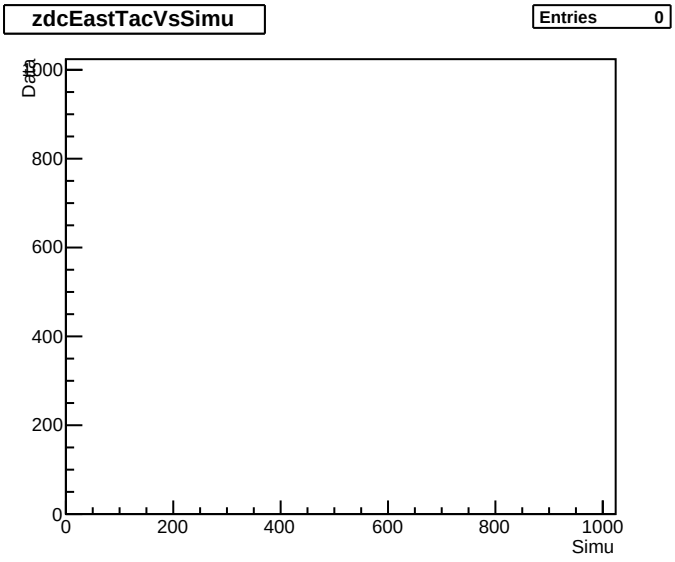

vpdWestAdcSum
Entries 28435

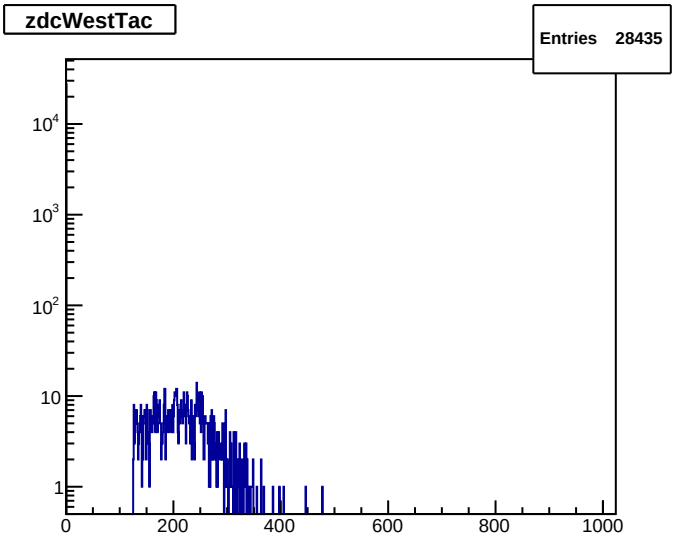

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

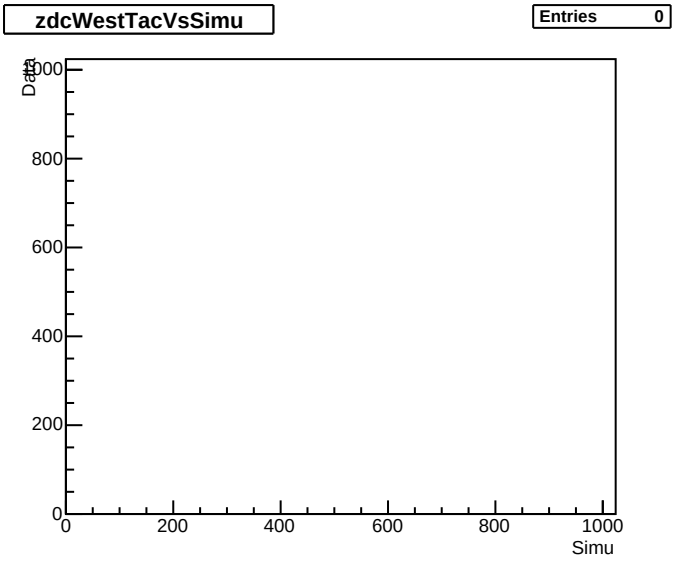

vpdWestTacMax
Entries 28435

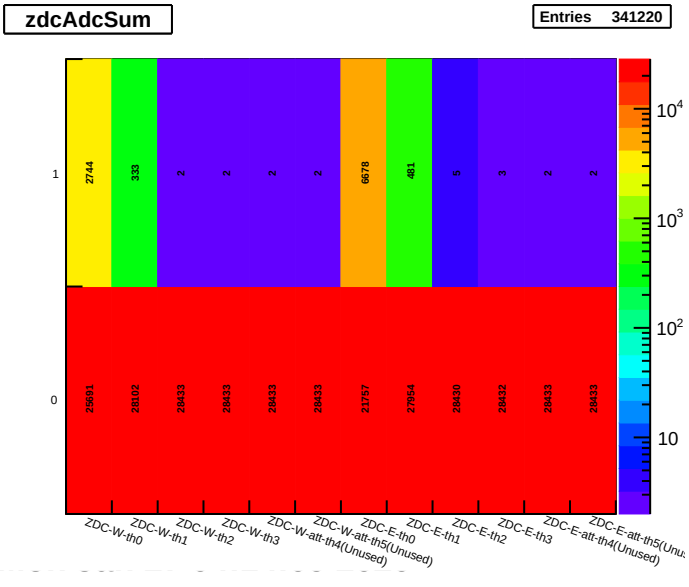

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

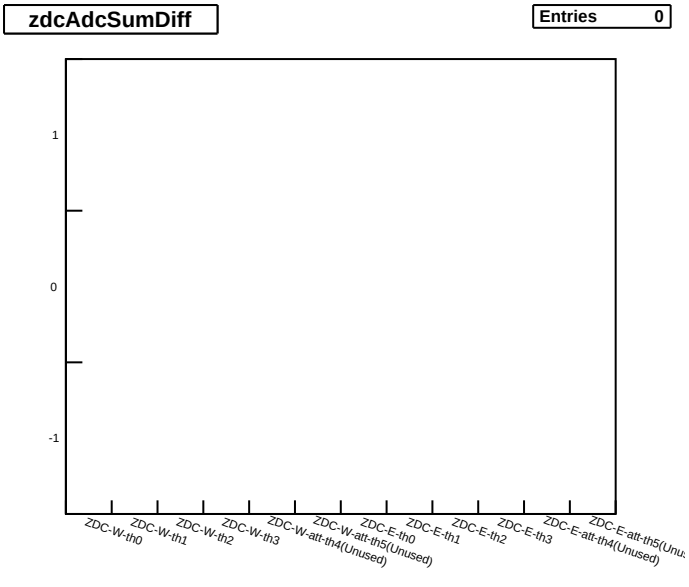

zdcEastTac
Entries 28435
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

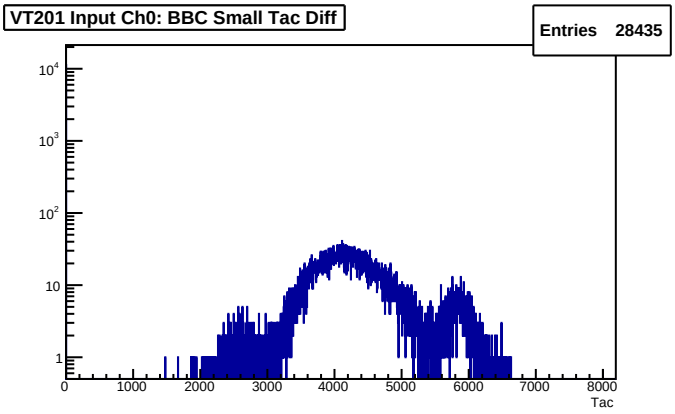

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

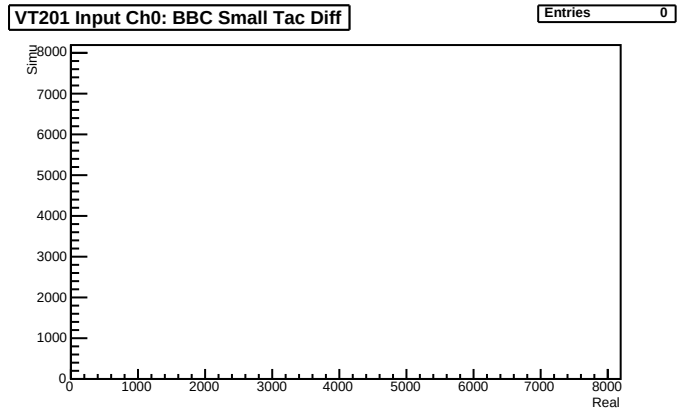

zdcWestTac
Entries 28435
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

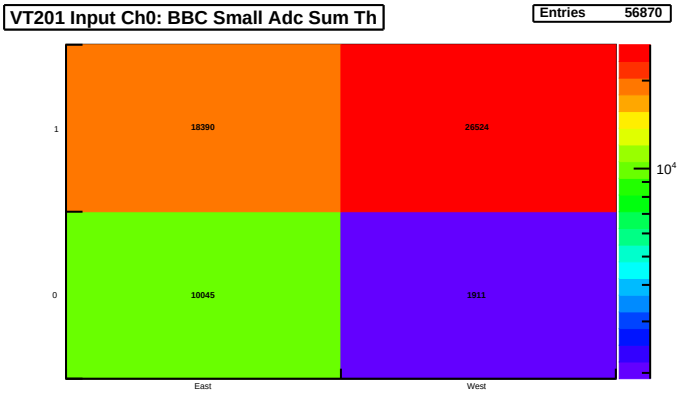

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

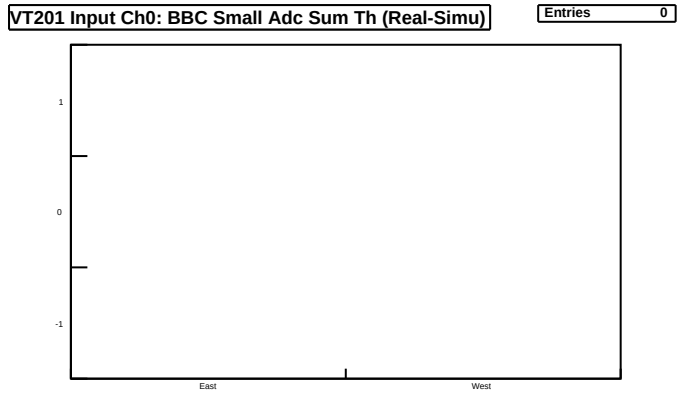

zdcAdcSum
Entries 341220
1
0
2744
333
2
2
2
2
6678
481
5
3
2
2
25591
28102
28433
28433
28433
28433
21757
27954
28430
28432
28433
28433
10^4
10^3
10^2
10
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

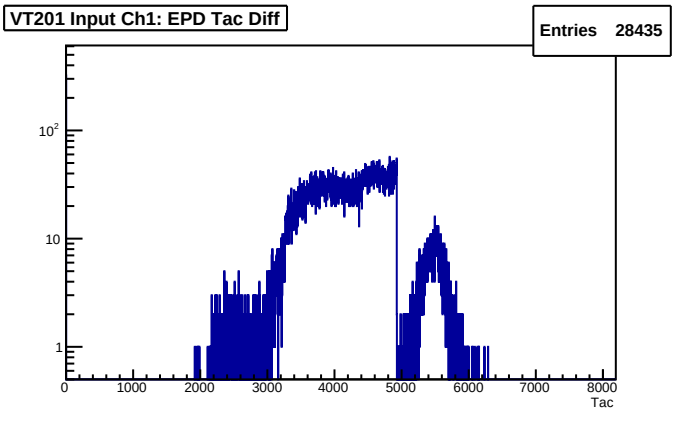

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

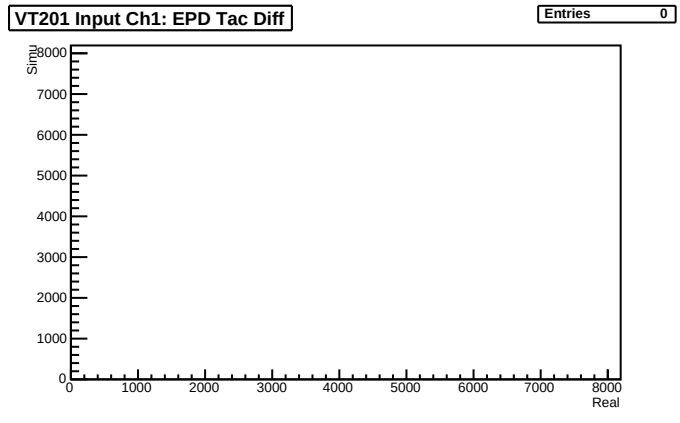

VT201 Input Ch0: BBC Small Tac Diff
Entries 28435
Tac

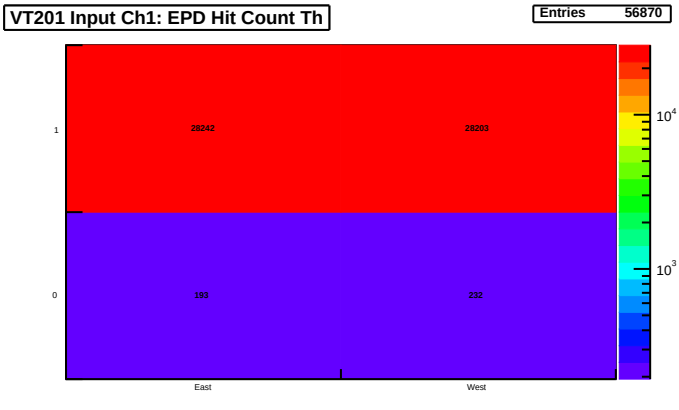

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

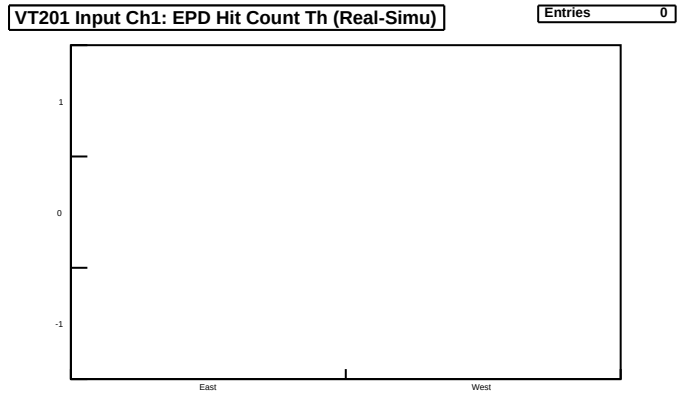

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 56870
18390
26524
10045
1911
East
West

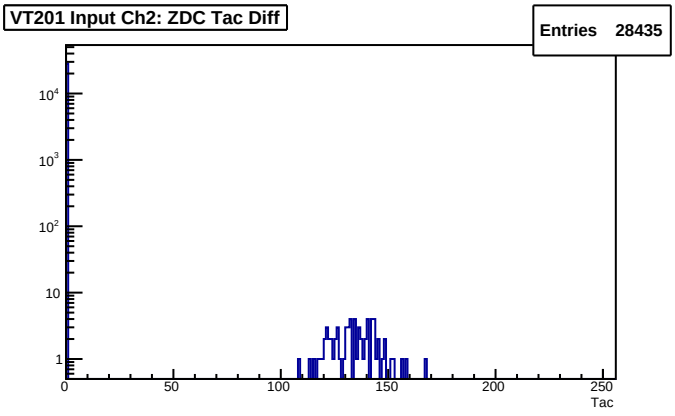

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

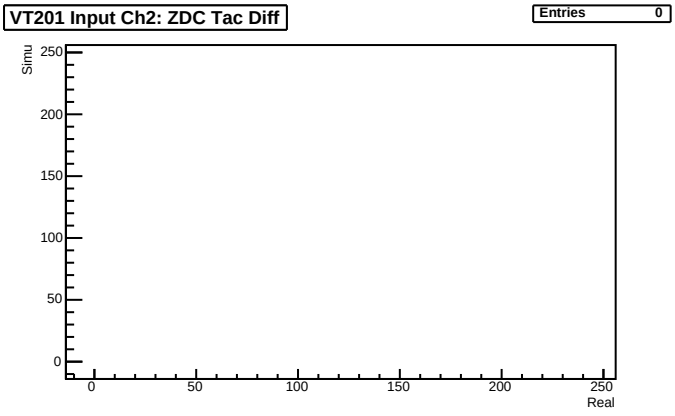

VT201 Input Ch1: EPD Tac Diff
Entries 28435
Tac

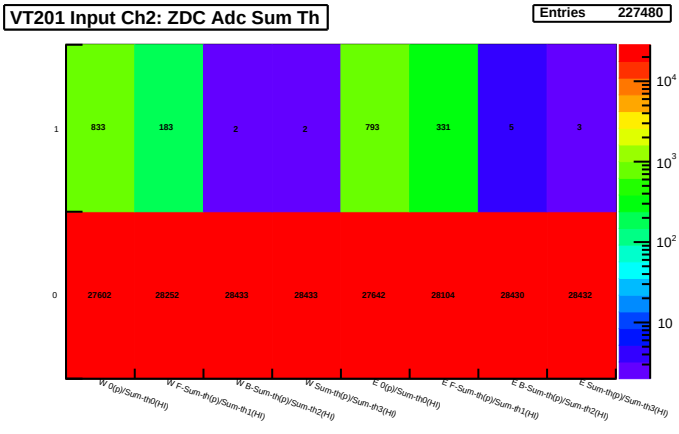

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

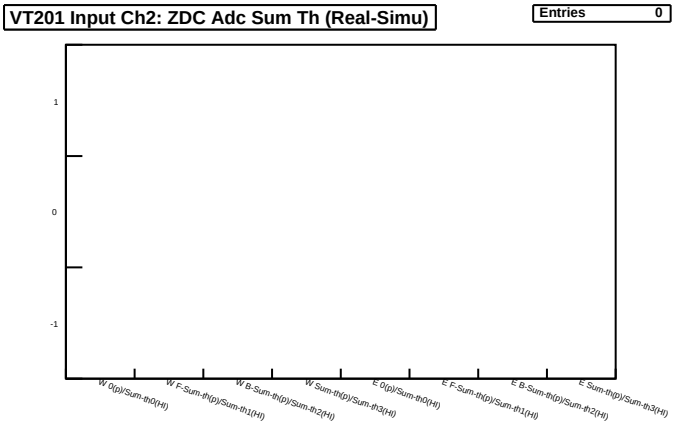

VT201 Input Ch1: EPD Hit Count Th
Entries 56870
28242
28203
193
232
East
West

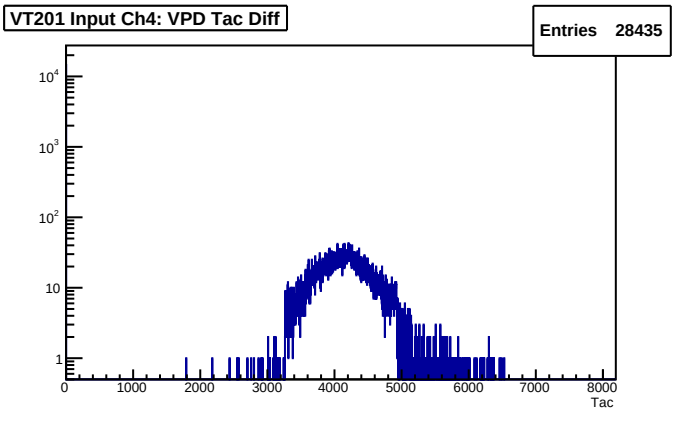

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

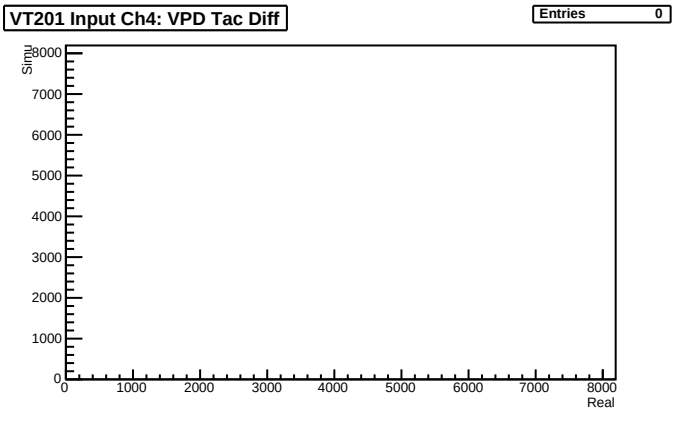

VT201 Input Ch2: ZDC Tac Diff
Entries 28435
Tac

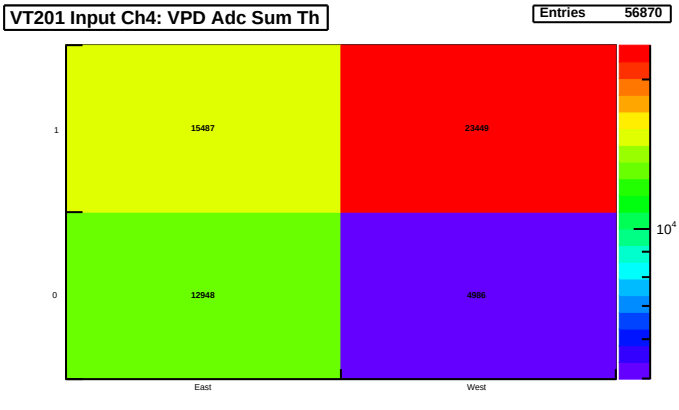

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

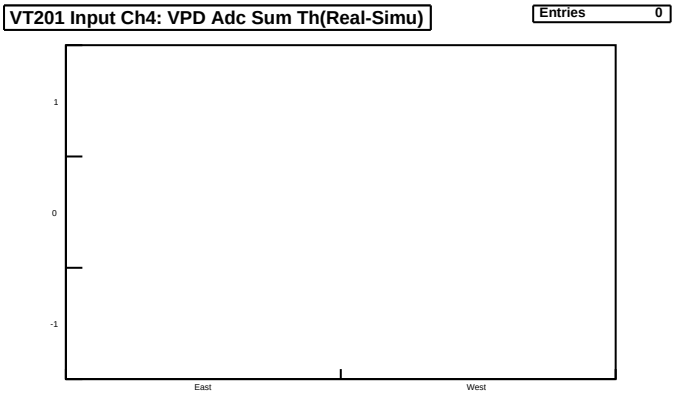

VT201 Input Ch2: ZDC Adc Sum Th
Entries 227480
833
183
2
2
793
331
5
3
27602
28252
28433
28433
27642
28104
28430
28432
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

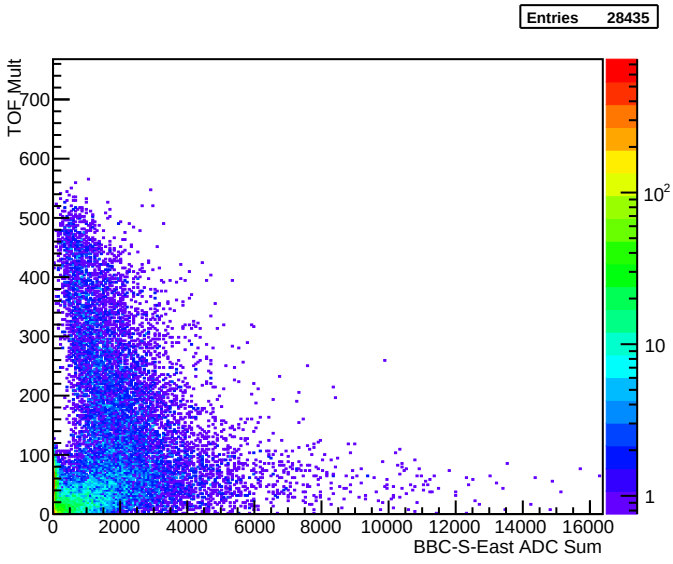

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

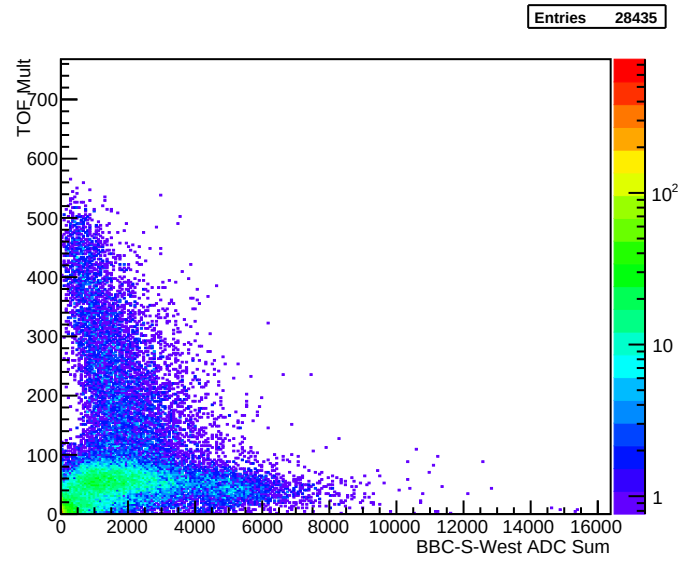

VT201 Input Ch4: VPD Tac Diff
Entries 28435
Tac

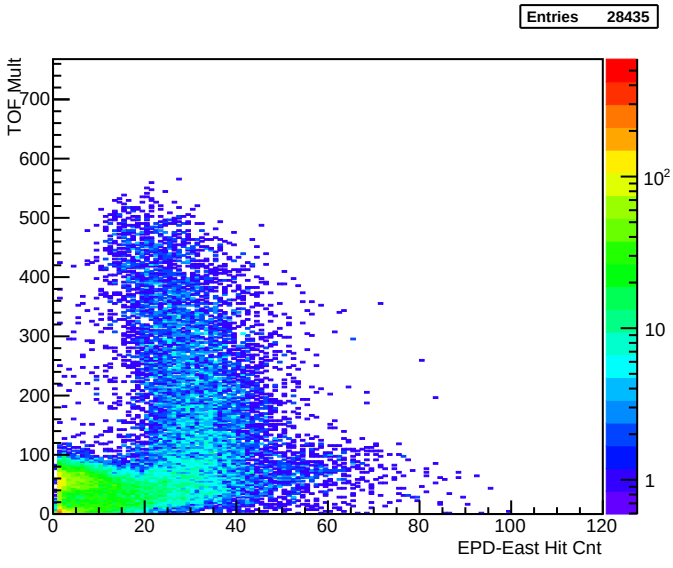

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

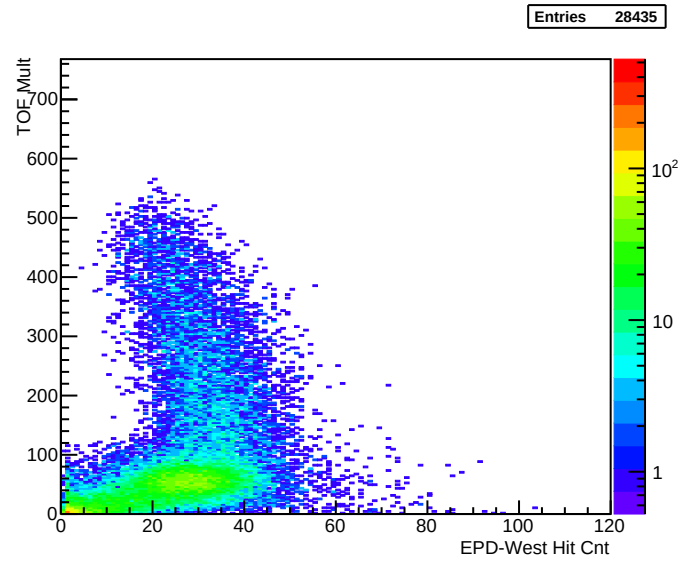

VT201 Input Ch4: VPD Adc Sum Th
Entries 56870
15487
23449
12948
4986
East
West

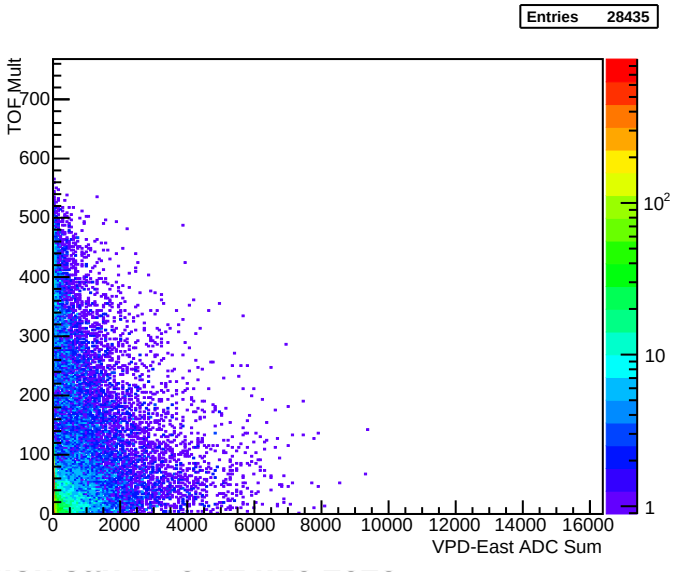

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

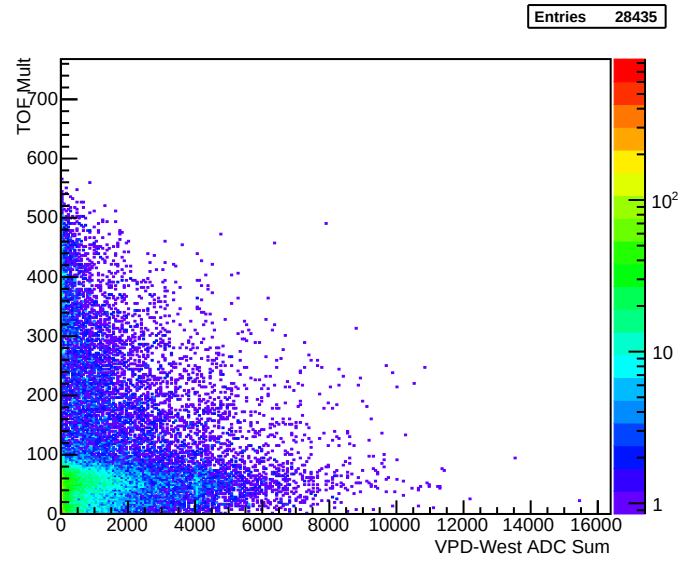

Entries 28435
TOF_Mult
BBC-S-East ADC Sum

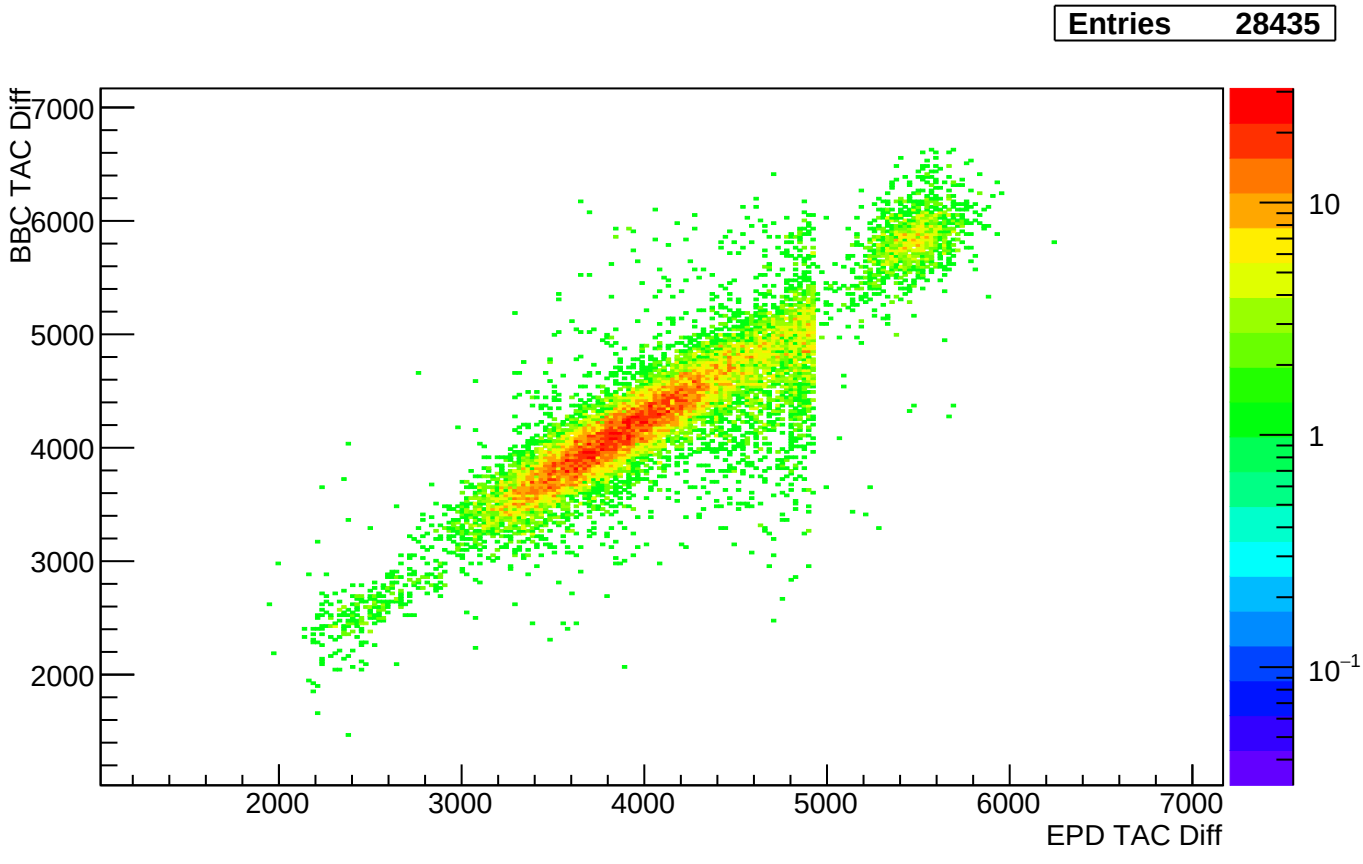

Entries 28435
TOF_Mult
BBC-S-West ADC Sum

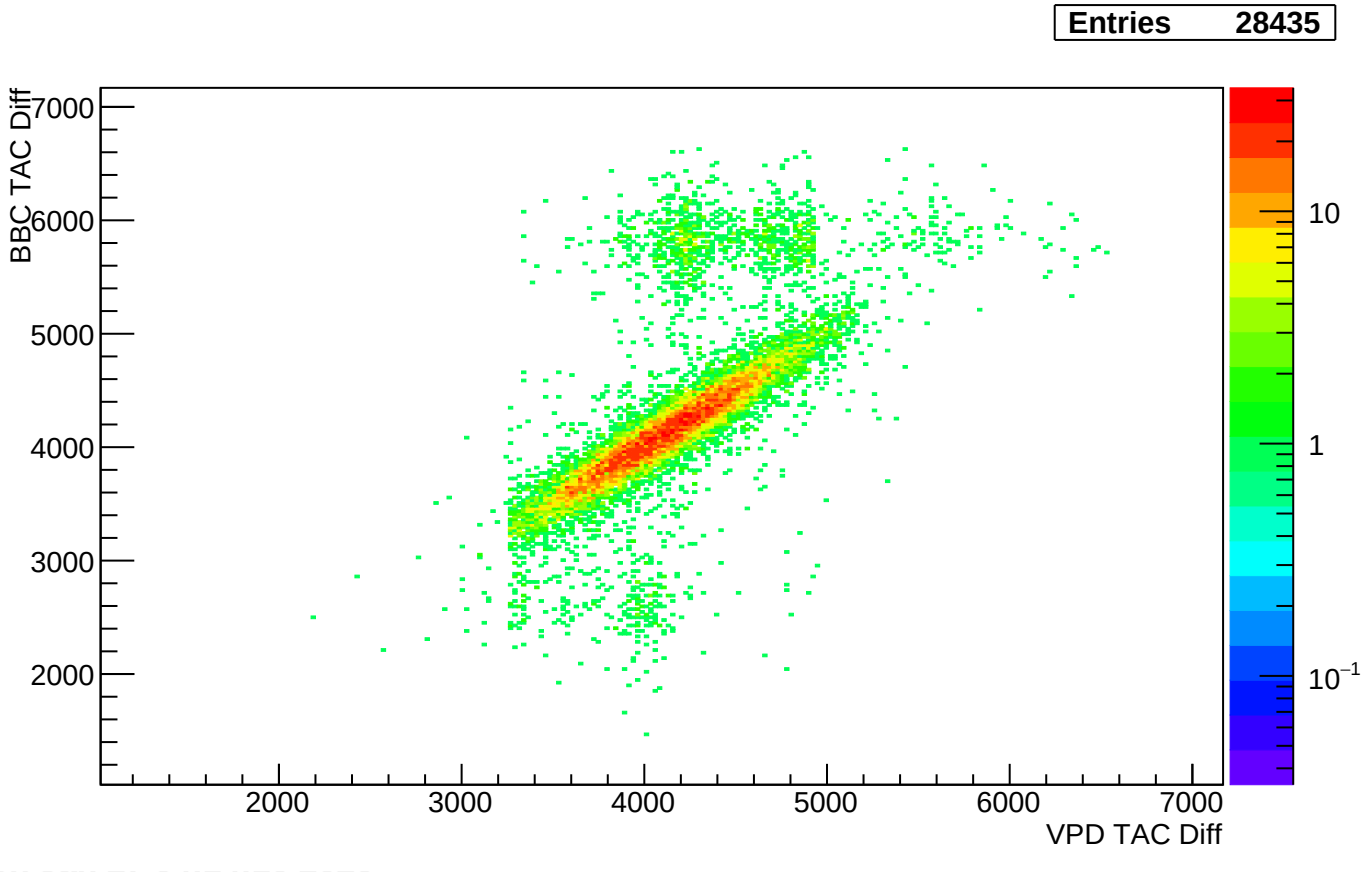

Entries 28435
TOF_Mult
EPD-East Hit Cnt

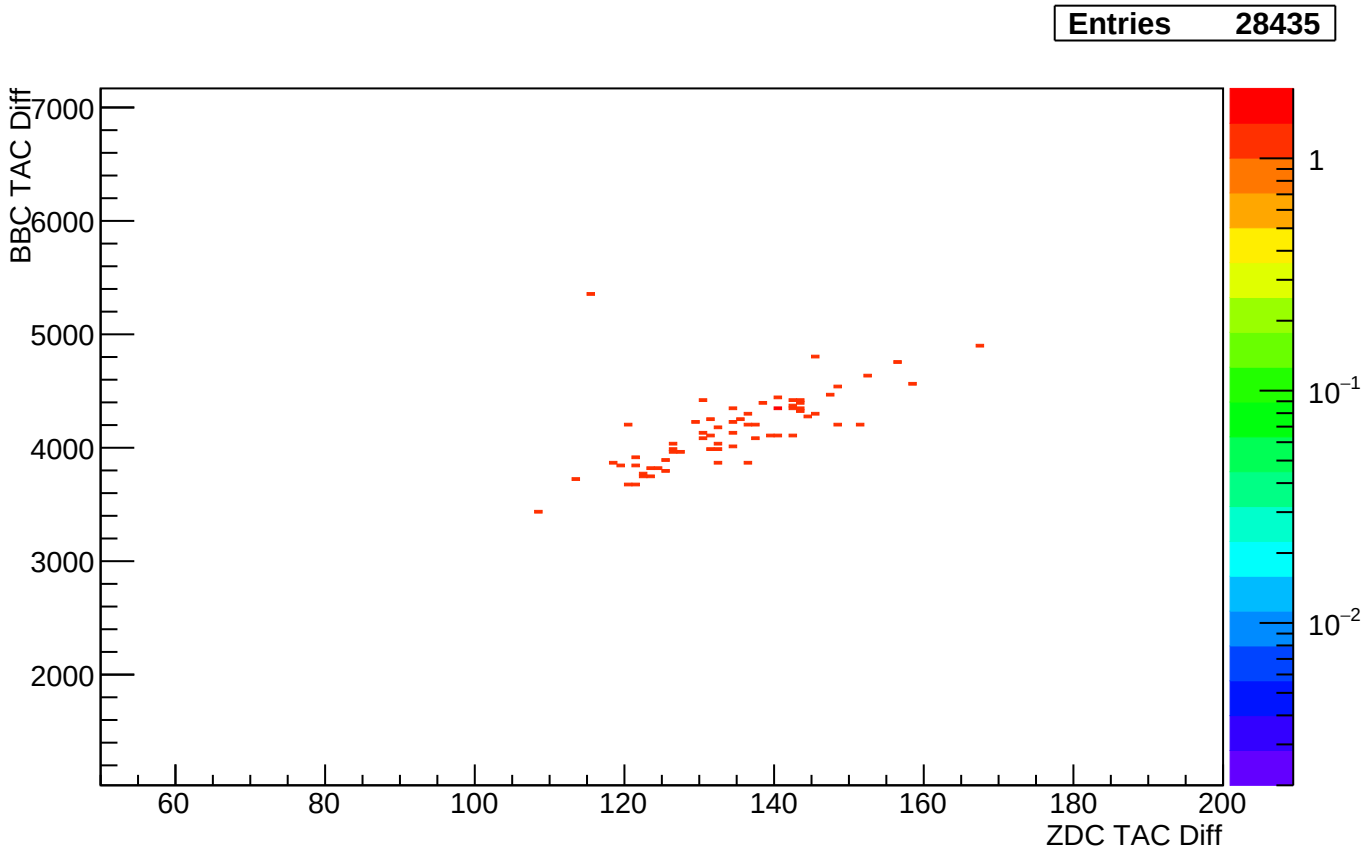

Entries 28435
TOF_Mult
EPD-West Hit Cnt

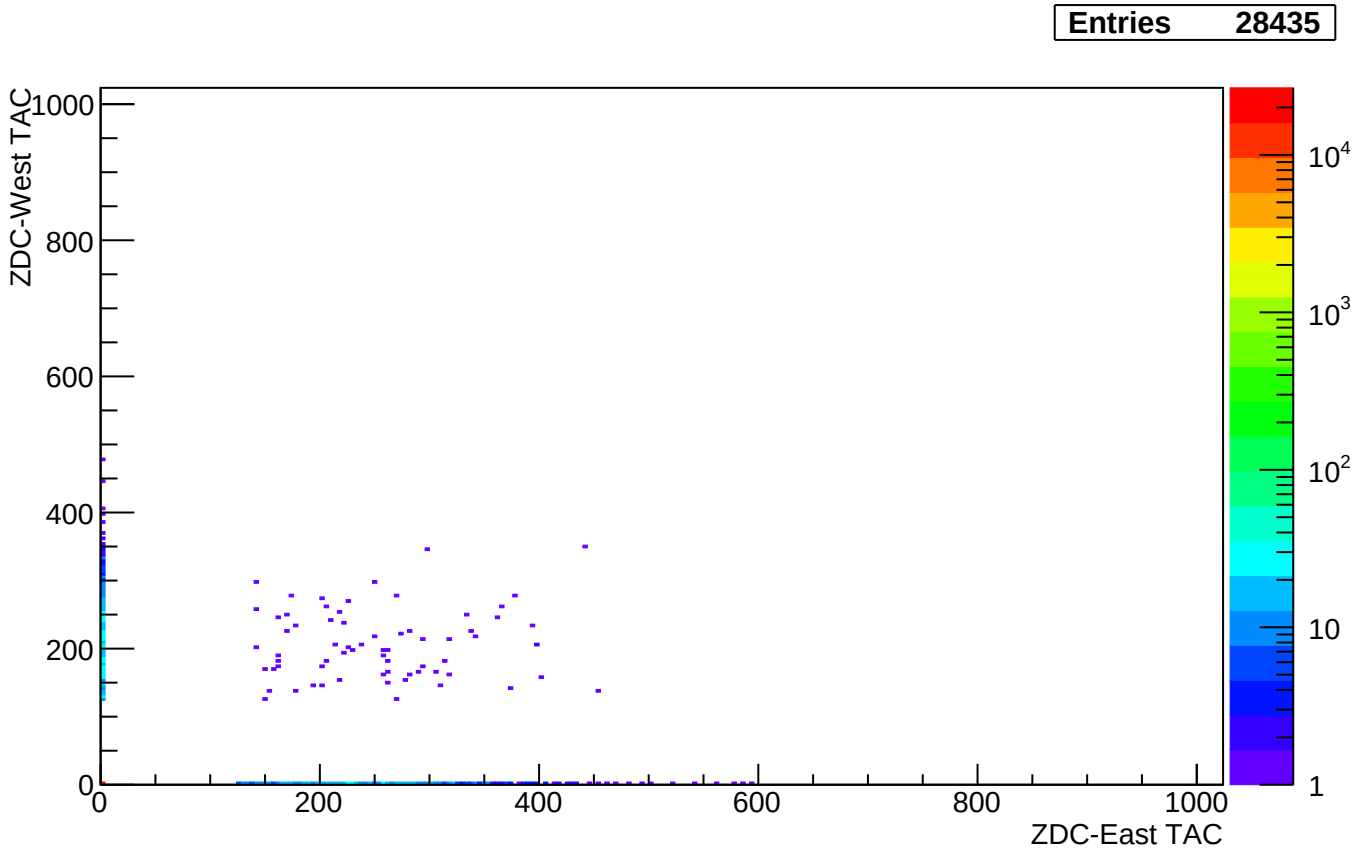

Entries 28435
TOF_Mult
VPD-East ADC Sum

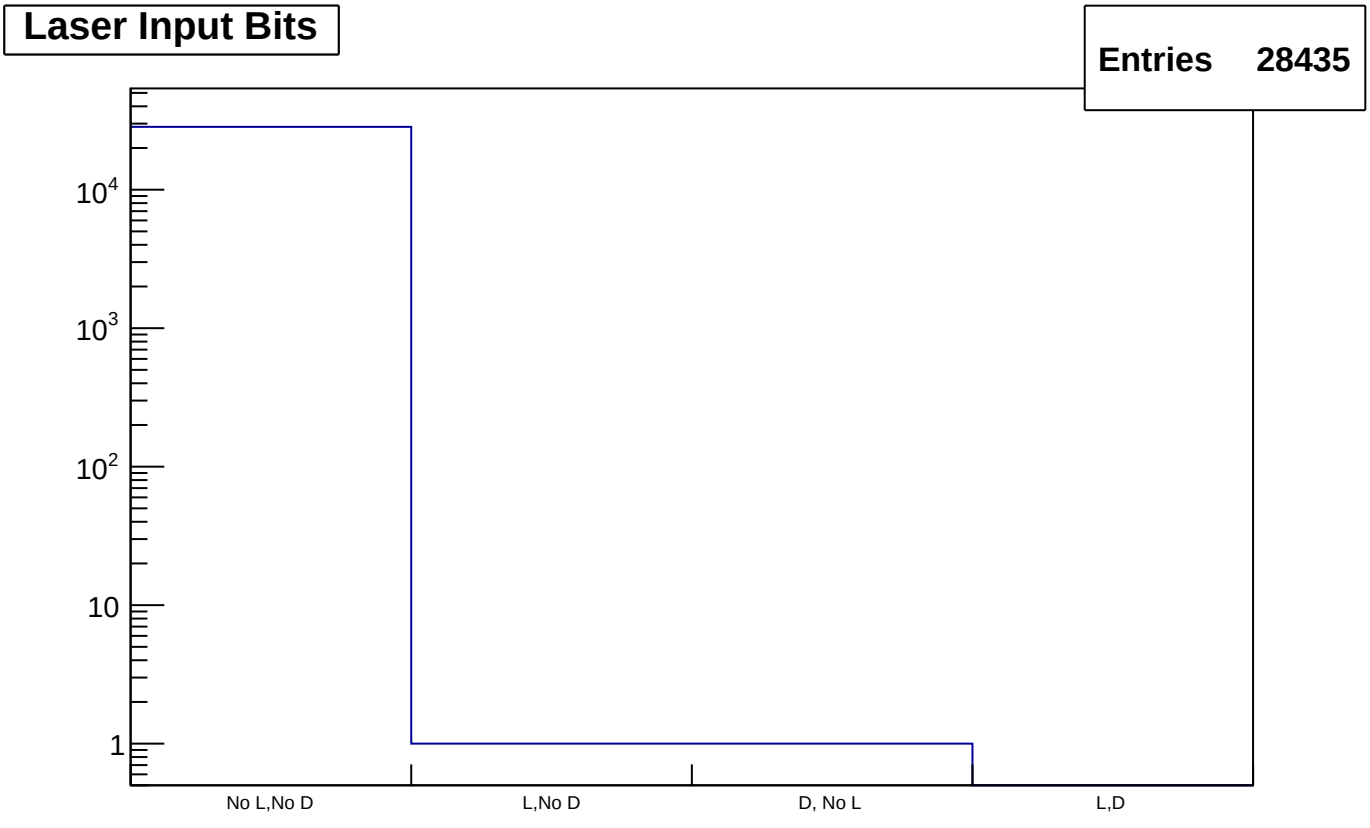

Entries 28435
TOF_Mult
VPD-West ADC Sum

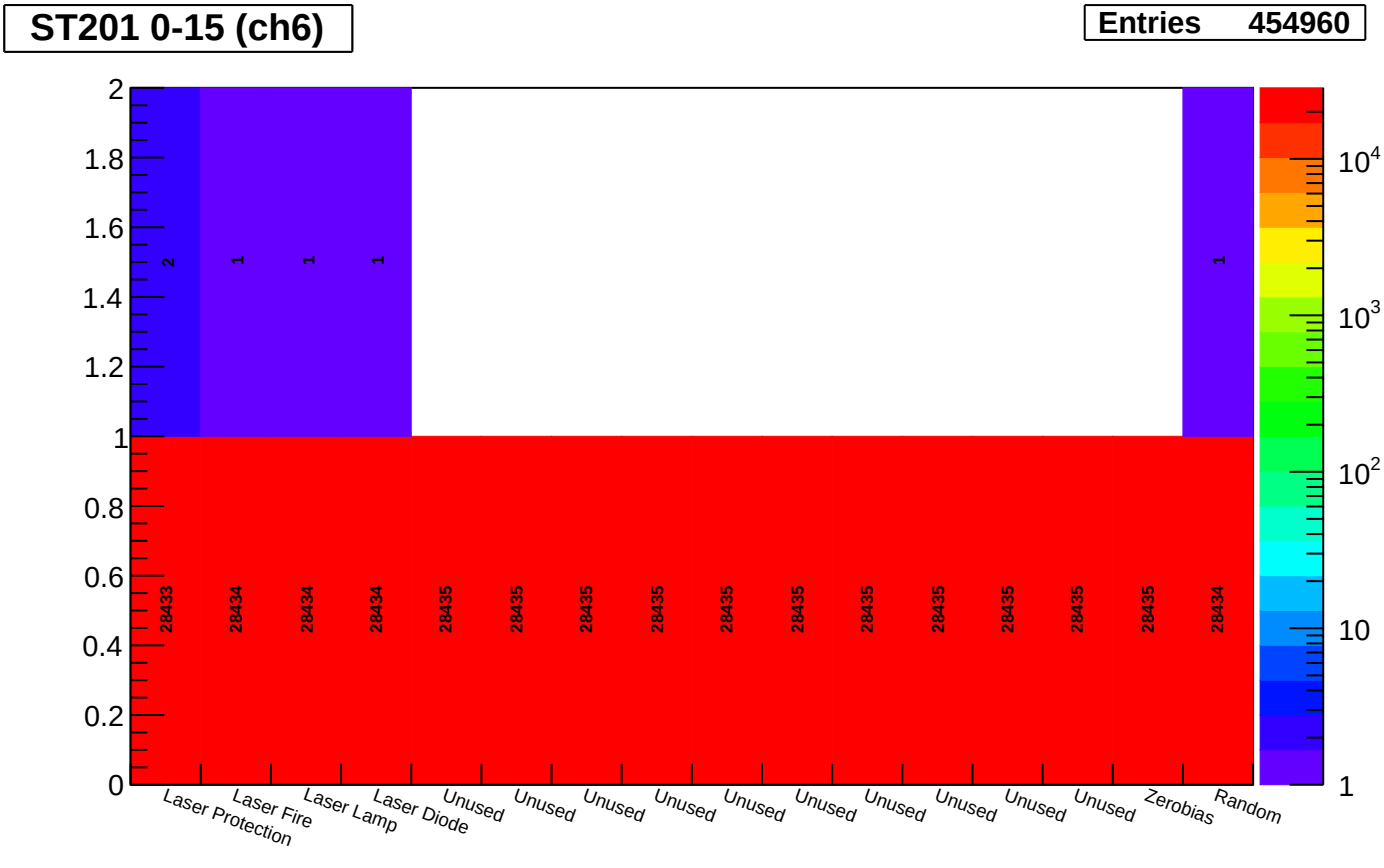

Entries 28435
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10
1
10^{-1}

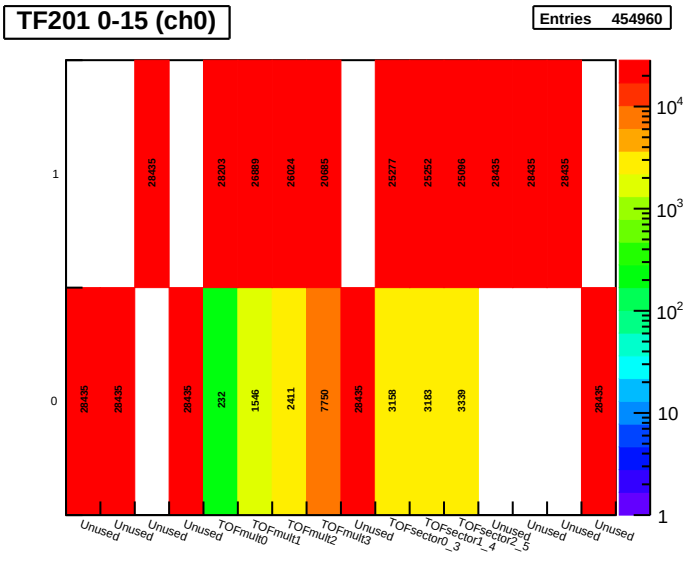

Entries 28435
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10
1
10^{-1}

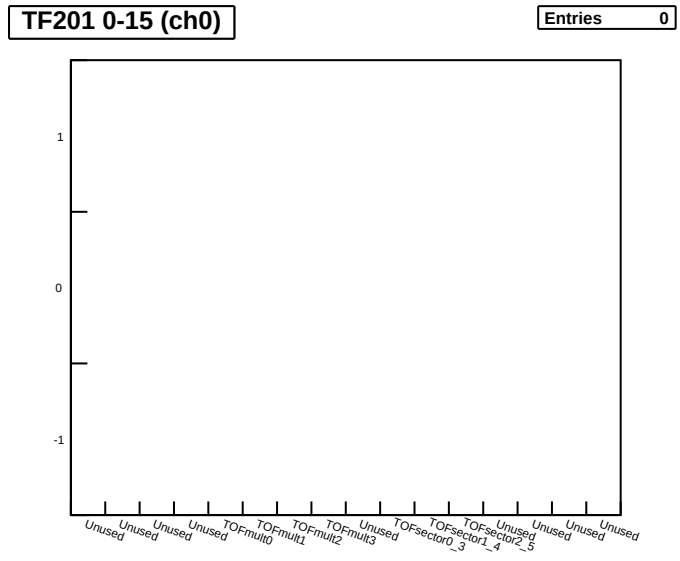

Entries 28435
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

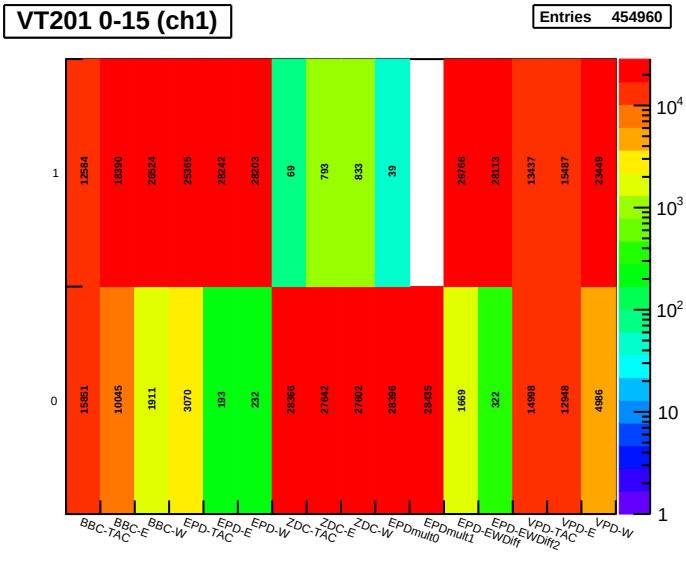

Entries 28435
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

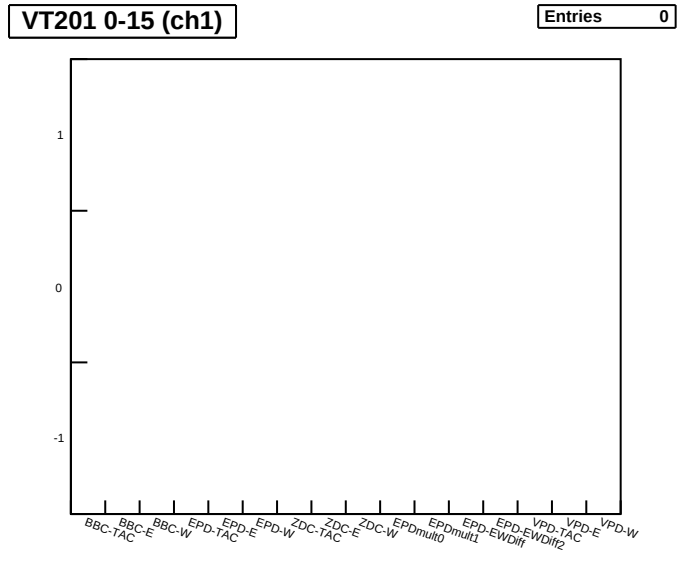

Laser Input Bits
Entries 28435
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

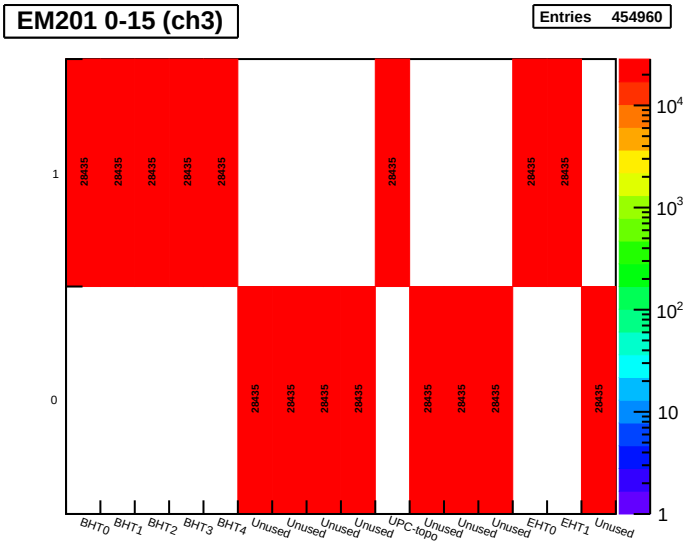

ST201 0-15 (ch6)
Entries 454960
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2
1
1
1
1
28433
28434
28434
28434
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28434
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^4
10^3
10^2
10
1

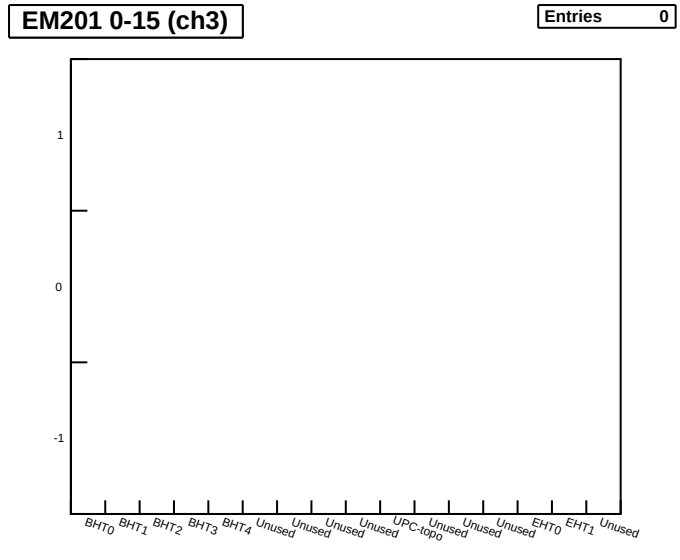

TF201 0-15 (ch0)
Entries 454960
1
0
28435
28203
26889
26024
20685
25277
25252
25096
28435
28435
28435
28435
28435
28435
222
1546
2411
7750
28435
3158
3183
3339
28435
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
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
Unused


VT201 0-15 (ch1)
Entries 454960
1
0
12584
18930
26524
25365
28242
28203
69
793
833
39
25766
28113
13437
15487
23449
15851
10045
1911
3070
193
232
28366
27642
27602
28386
28435
1669
322
14998
12948
4986
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 454960
1
0
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
28435
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
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