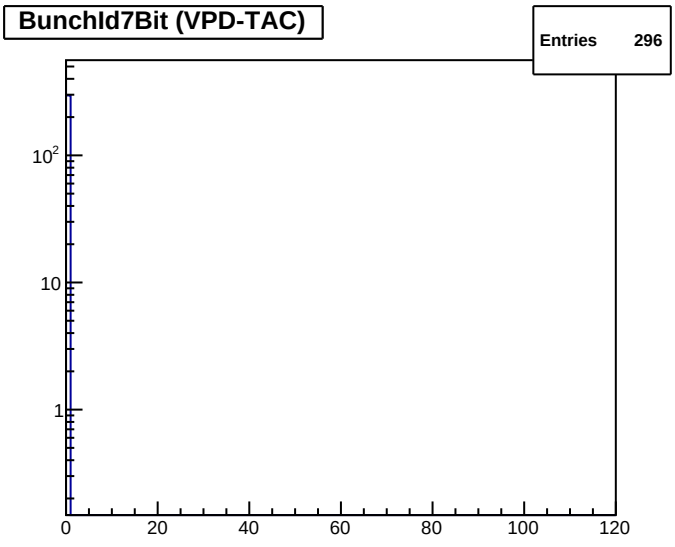
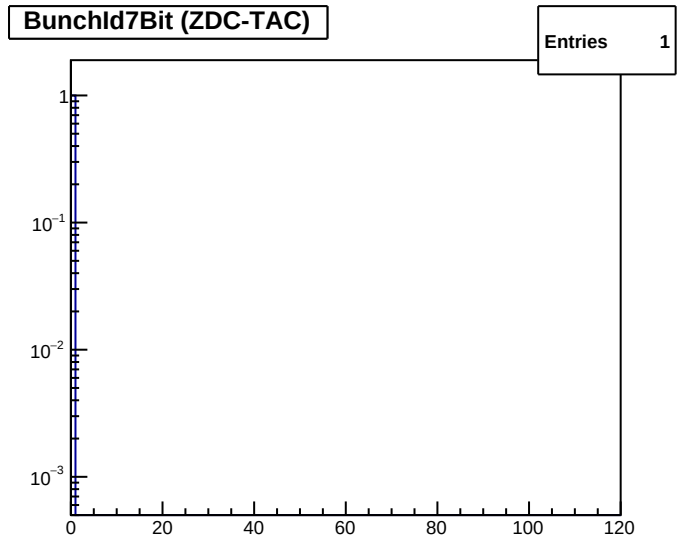
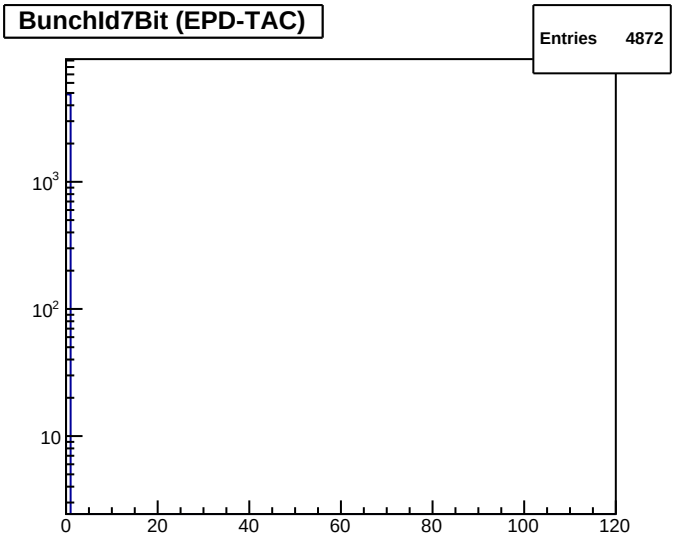
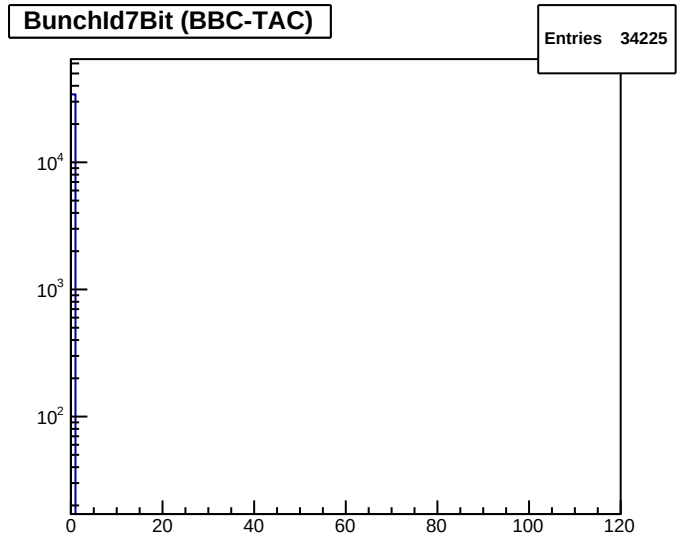
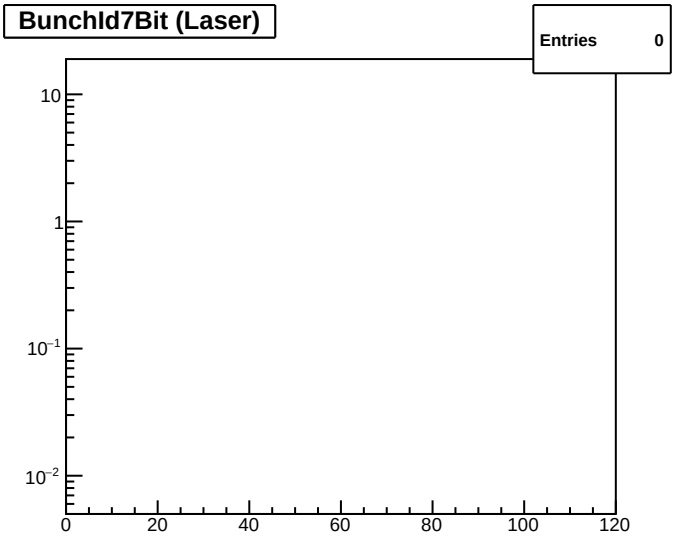
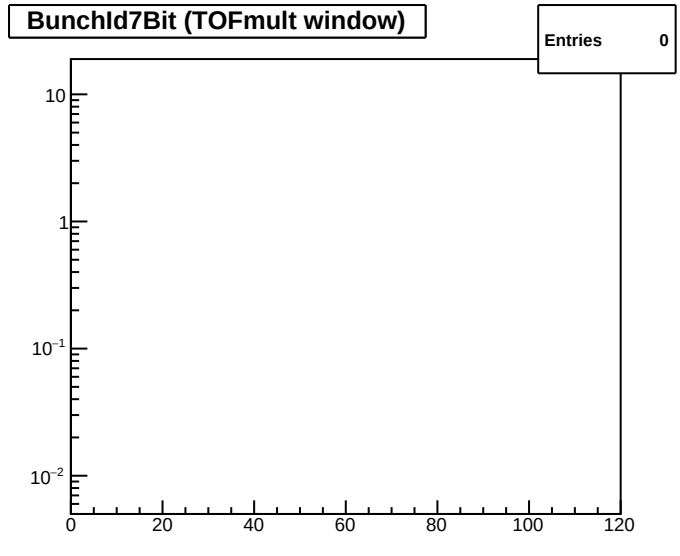

BunchId7Bit (VPD-TAC)
Entries 296
10^2
10
1
0
20
40
60
80
100
120

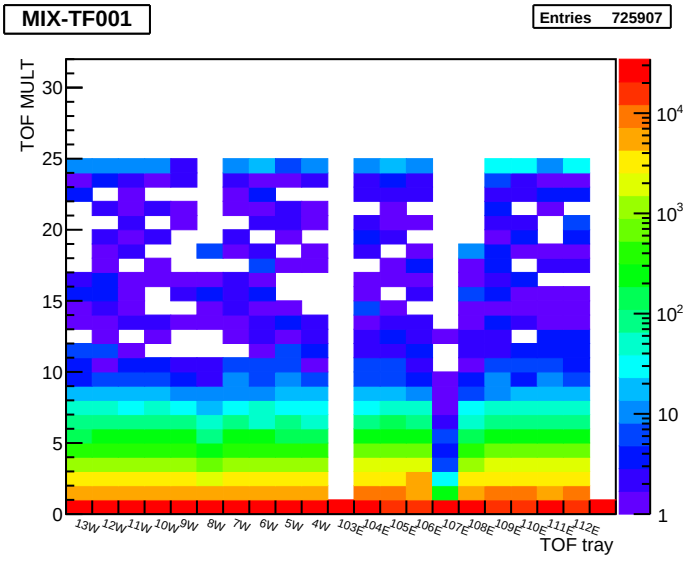

BunchId7Bit (ZDC-TAC)
Entries 1
1
10^{-1}
10^{-2}
10^{-3}
0
20
40
60
80
100
120

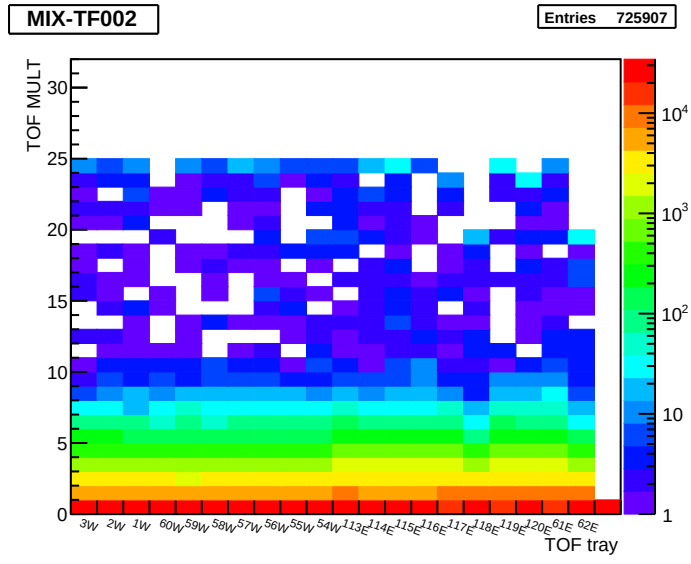

BunchId7Bit (EPD-TAC)
Entries 4872
10^3
10^2
10
0
20
40
60
80
100
120

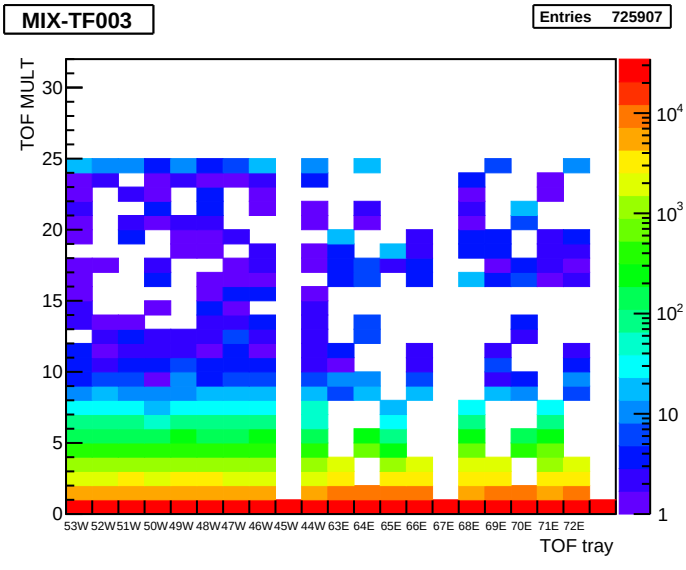

BunchId7Bit (BBC-TAC)
Entries 34225
10^4
10^3
10^2
0
20
40
60
80
100
120

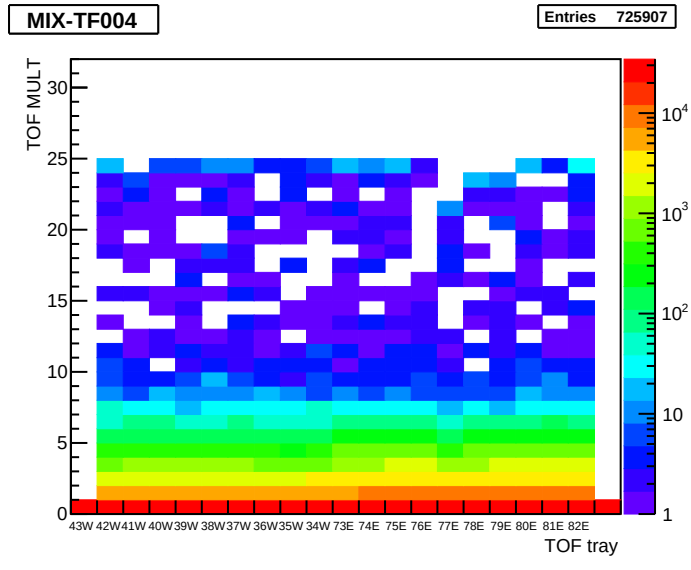

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

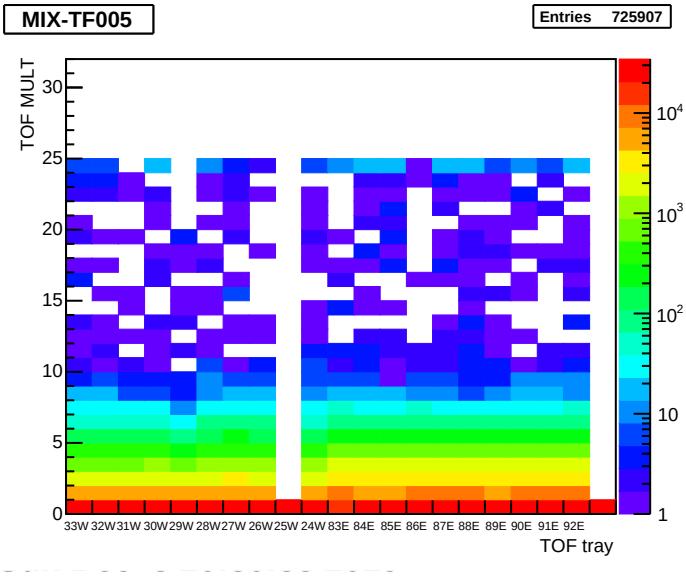

BunchId7Bit (TOFmult window)
Entries 0
10
1
10^{-1}
10^{-2}
0
20
40
60
80
100
120

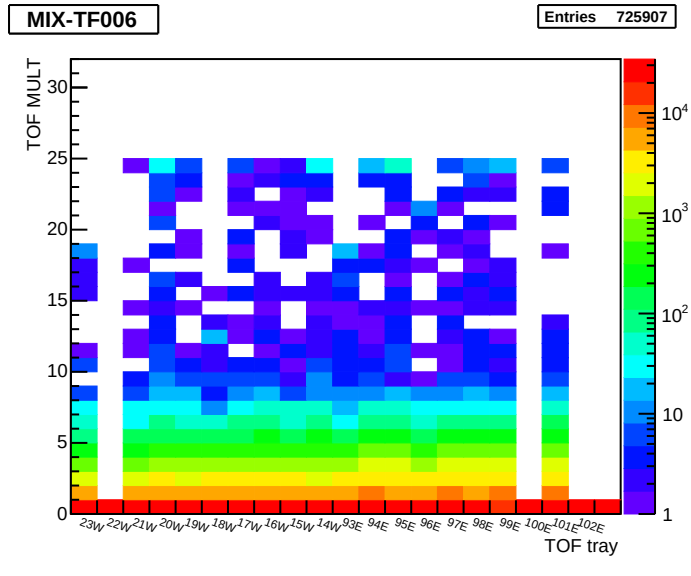

MIX-TF001
Entries 725907
TOF MULT
TOF tray

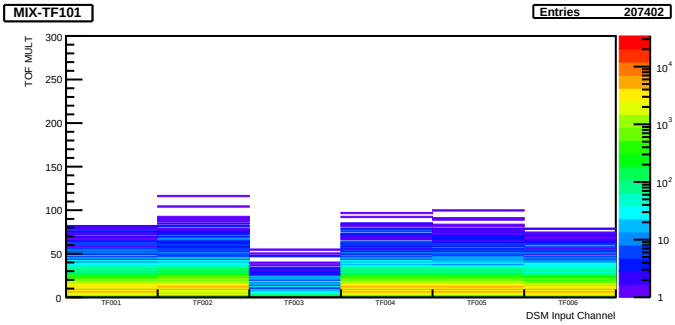

MIX-TF002
Entries 725907
TOF MULT
TOF tray

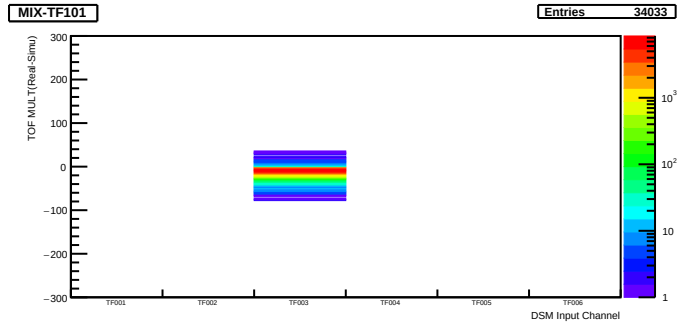

MIX-TF003
Entries 725907
TOF MULT
TOF tray

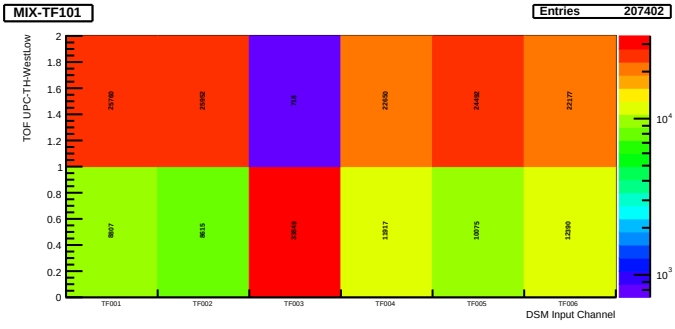

MIX-TF004
Entries 725907
TOF MULT
TOF tray

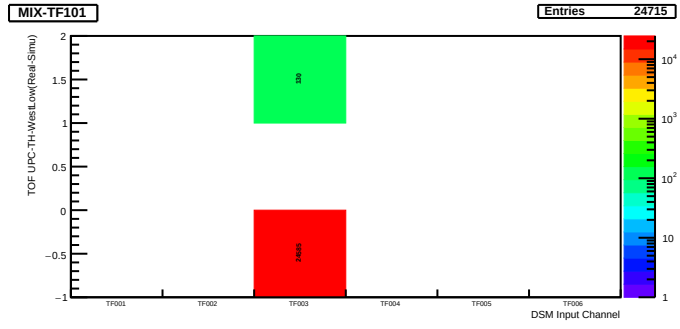

MIX-TF005
Entries 725907
TOF MULT
TOF tray

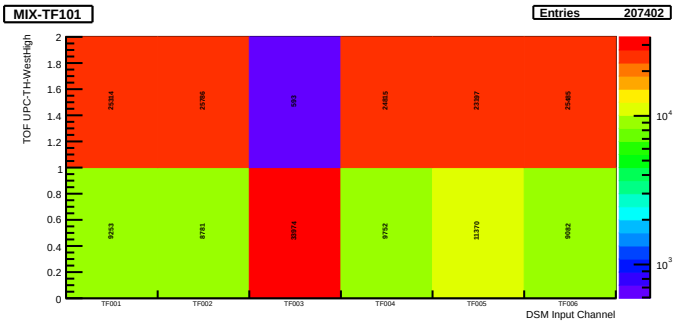

MIX-TF006
Entries 725907
TOF MULT
TOF tray

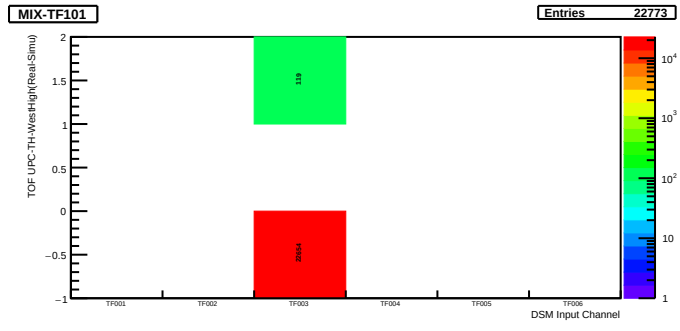

MIX-TF101
Entries 207402
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

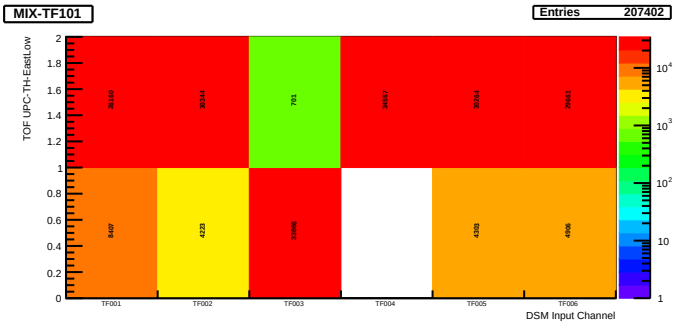

MIX-TF101
Entries 34033
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

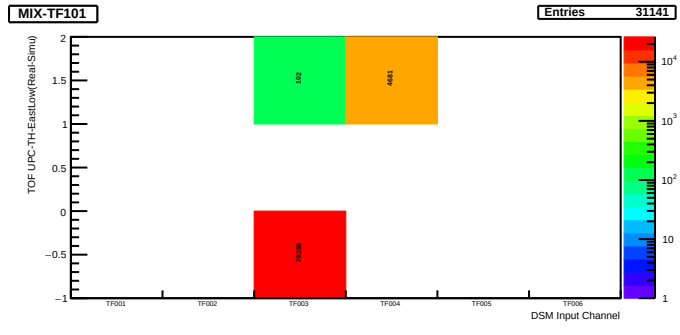

MIX-TF101
Entries 207402
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

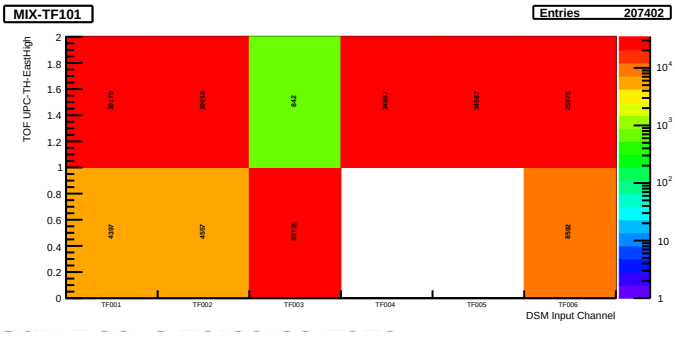

MIX-TF101
Entries 24715
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

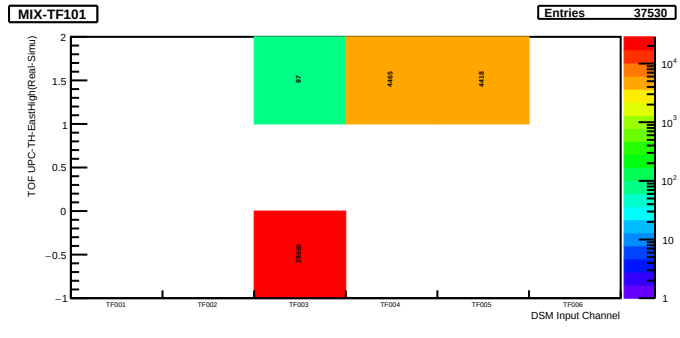

MIX-TF101
Entries 207402
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

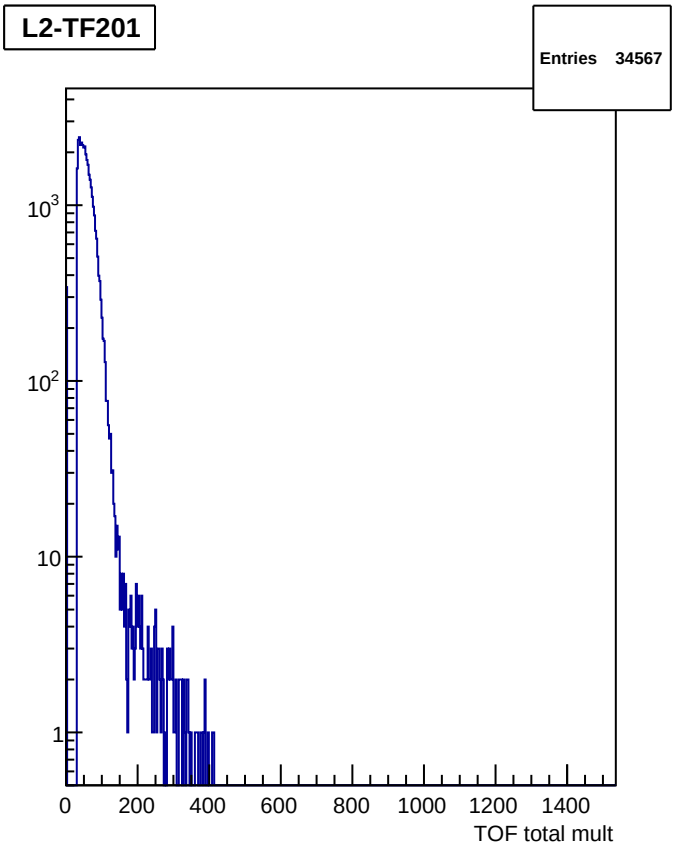

MIX-TF101
Entries 22773
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

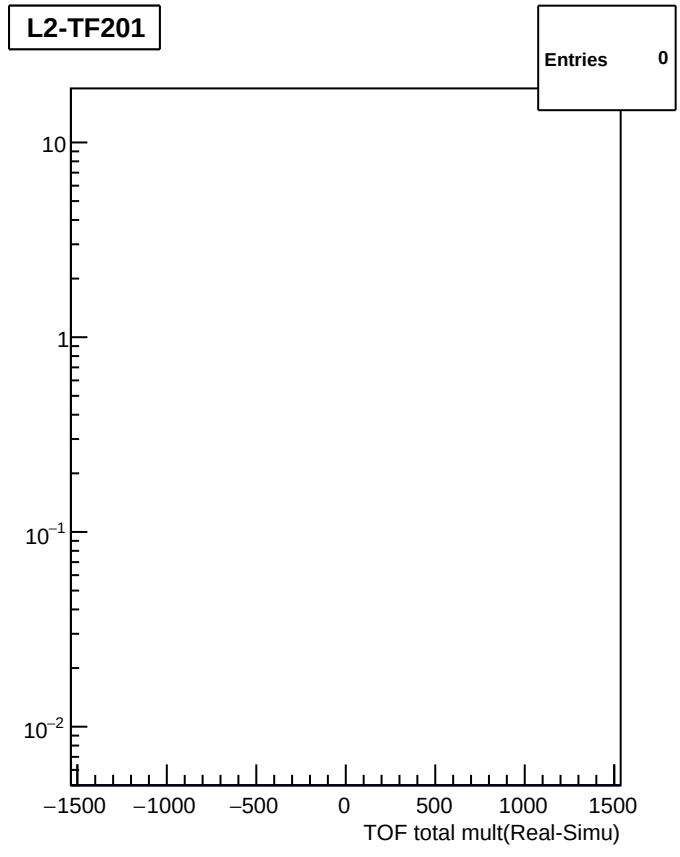

MIX-TF101
Entries 207402
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

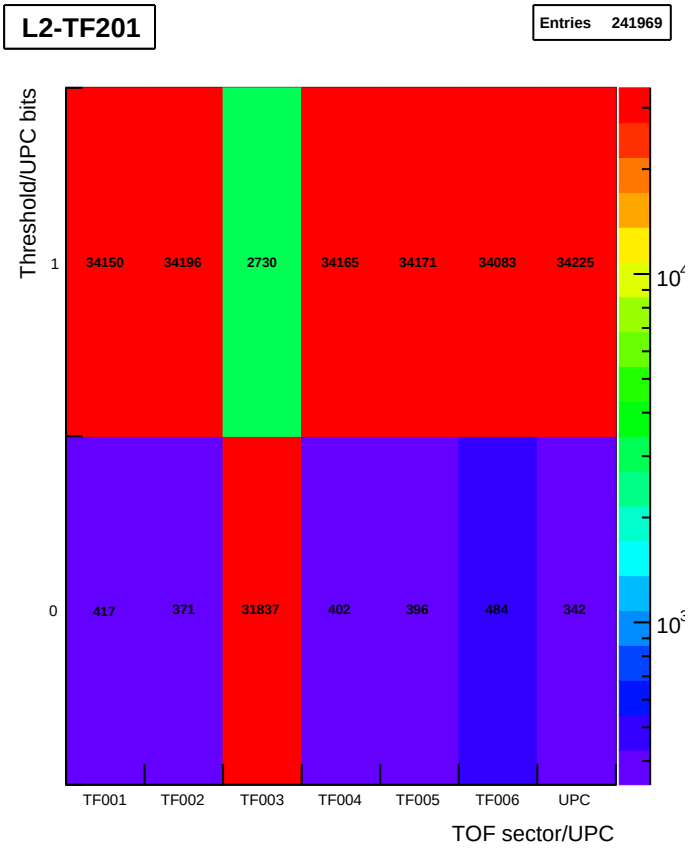

MIX-TF101
Entries 31141
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

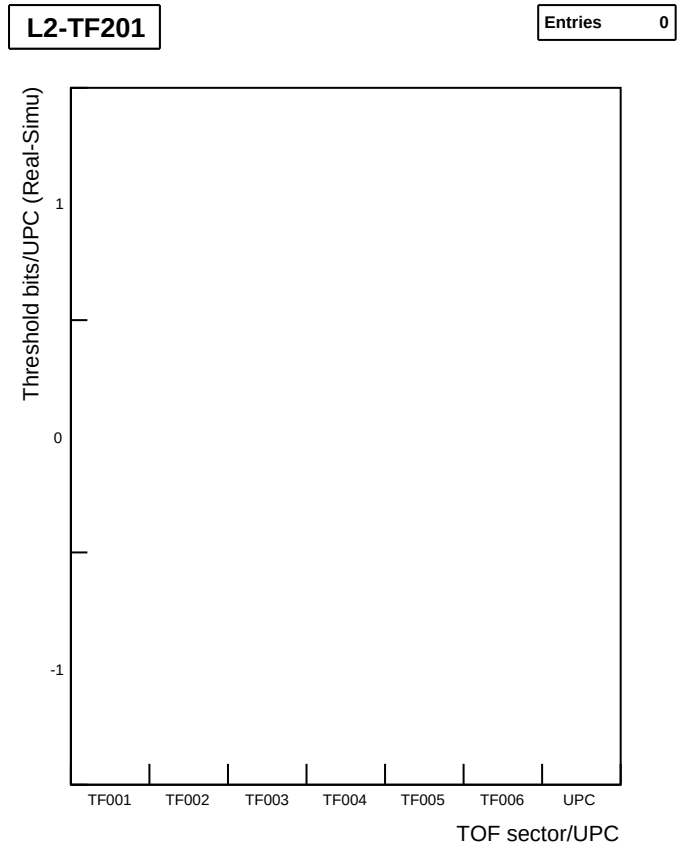

MIX-TF101
Entries 207402
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

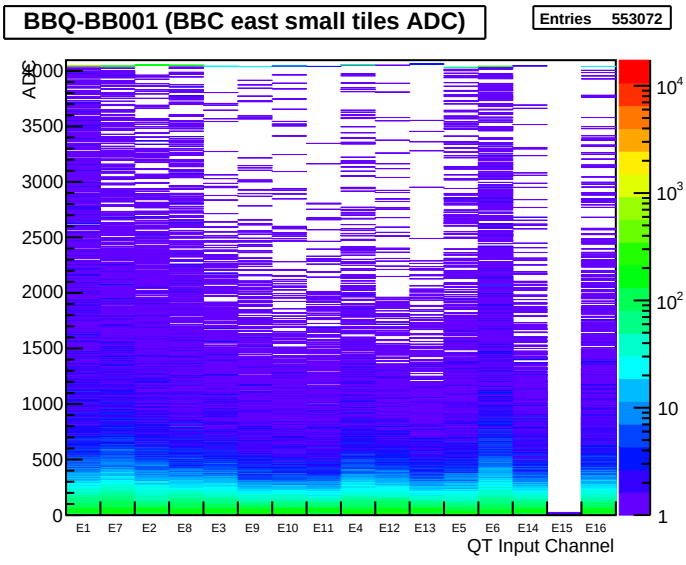

MIX-TF101
Entries 37530
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

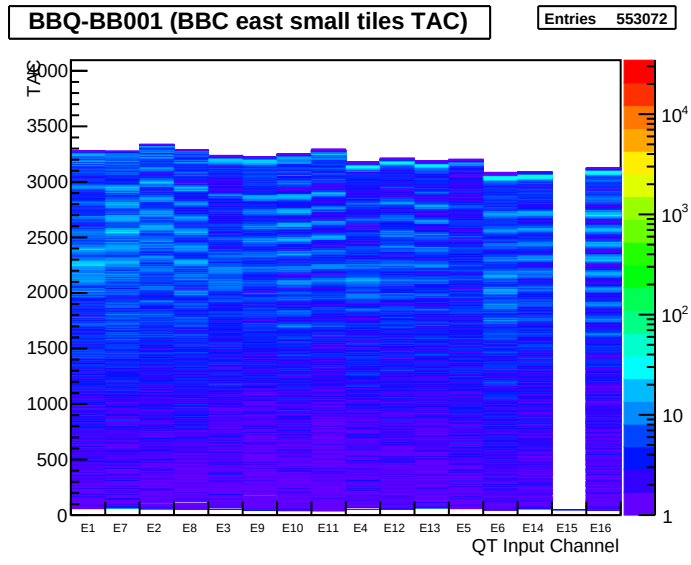

L2-TF201
Entries 34567
TOF total mult

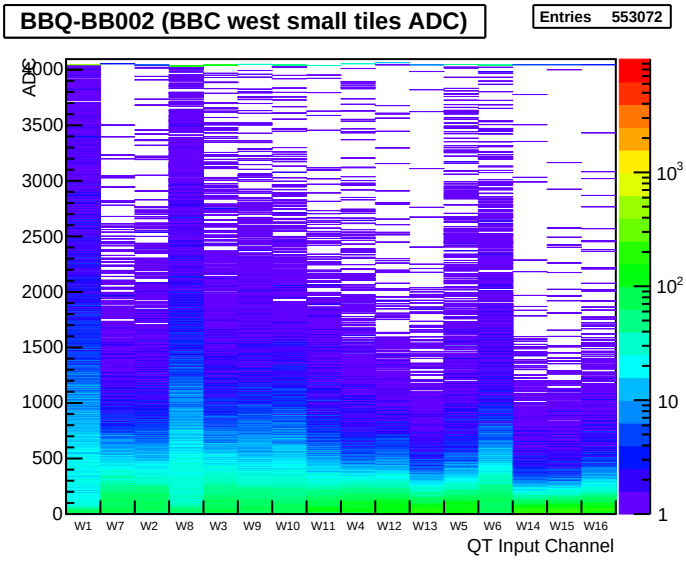

L2-TF201
Entries 0
TOF total mult(Real-Simu)

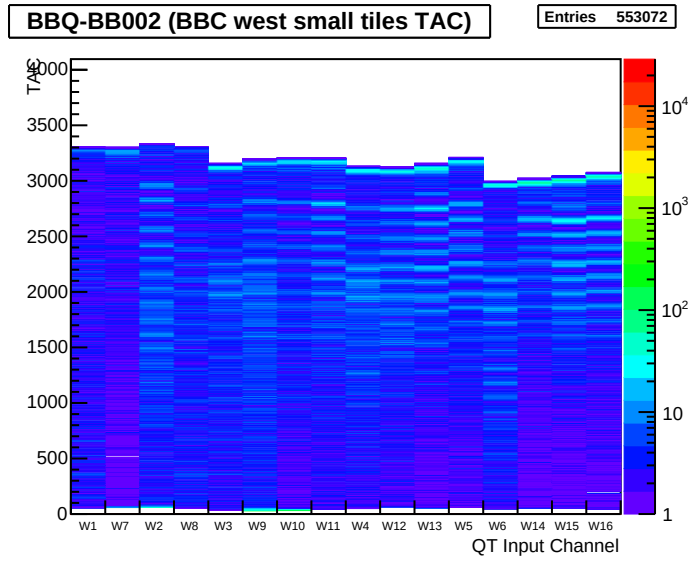

L2-TF201
Entries 241969
Threshold/UPC bits
34150
34196
2730
34165
34171
34083
34225
417
371
31837
402
396
484
342
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

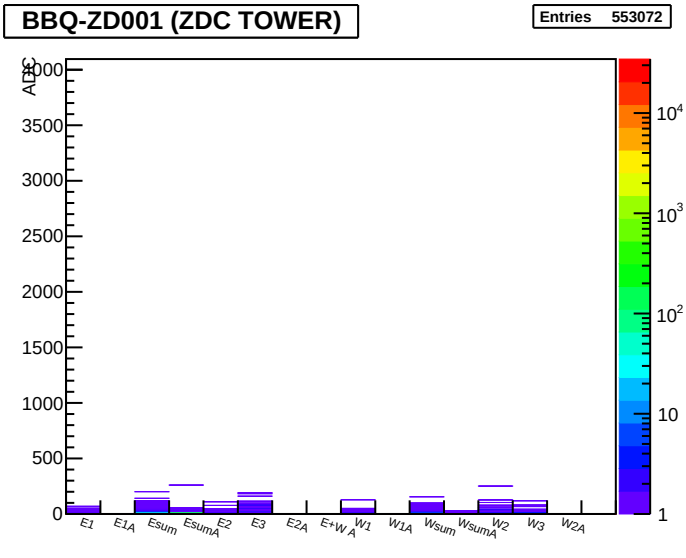

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

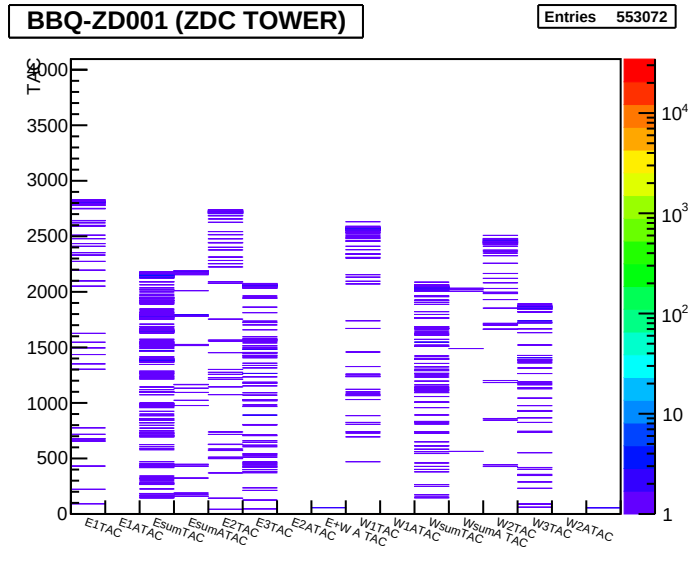

BBQ-BB001 (BBC east small tiles ADC)
Entries 553072
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

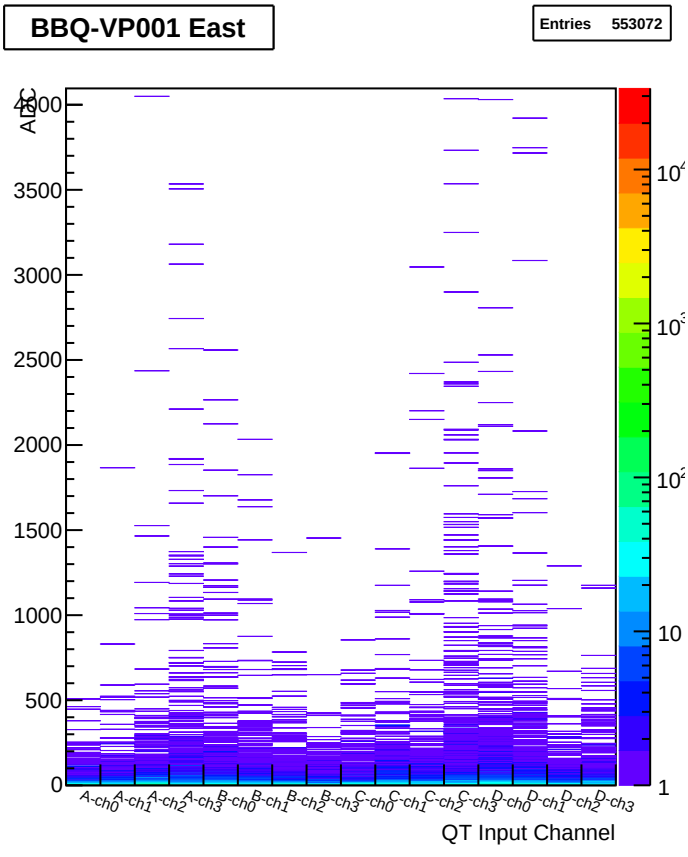

BBQ-BB001 (BBC east small tiles TAC)
Entries 553072
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

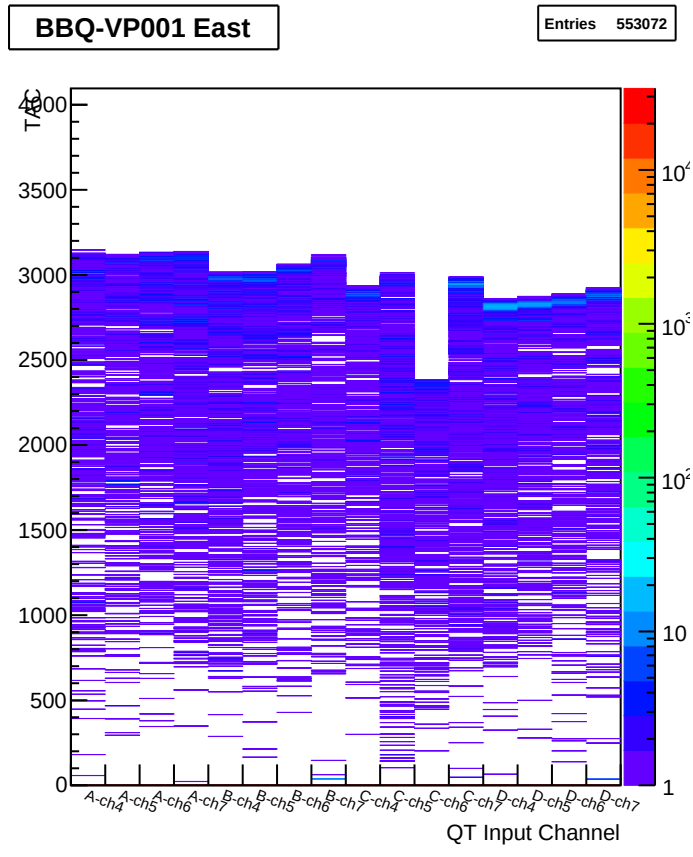

BBQ-BB002 (BBC west small tiles ADC)
Entries 553072
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

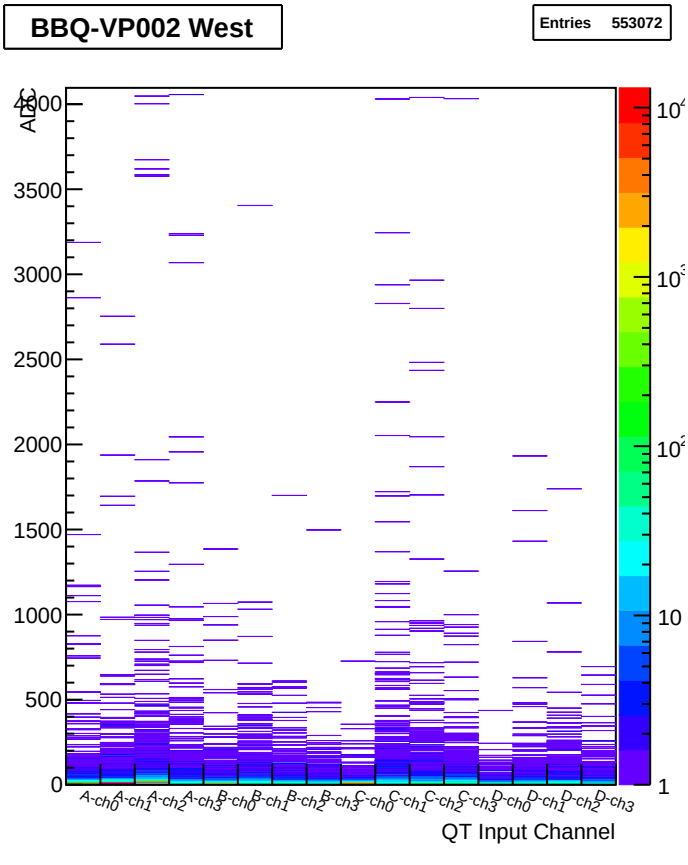

BBQ-BB002 (BBC west small tiles TAC)
Entries 553072
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

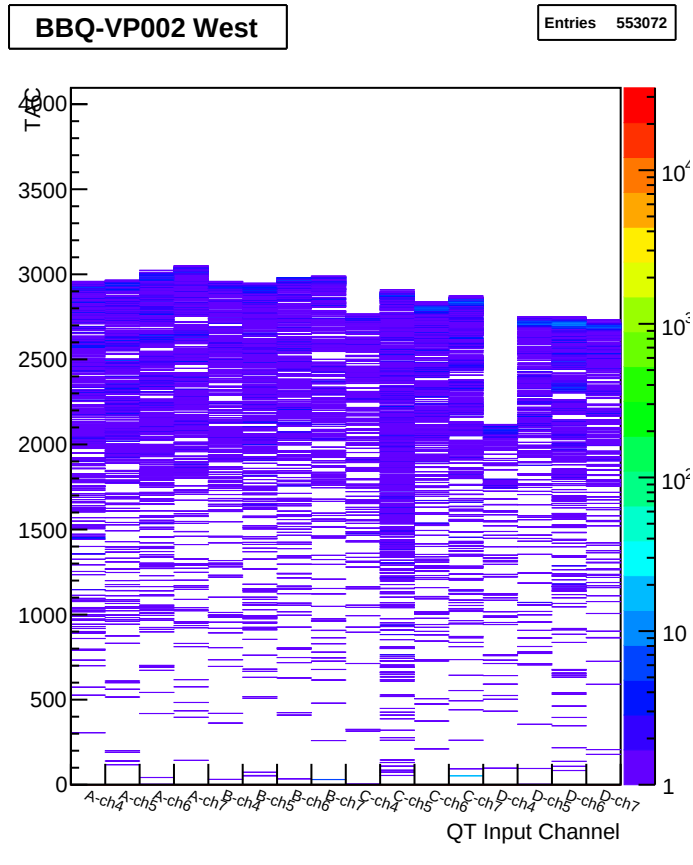

BBQ-ZD001 (ZDC TOWER)
Entries 553072
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

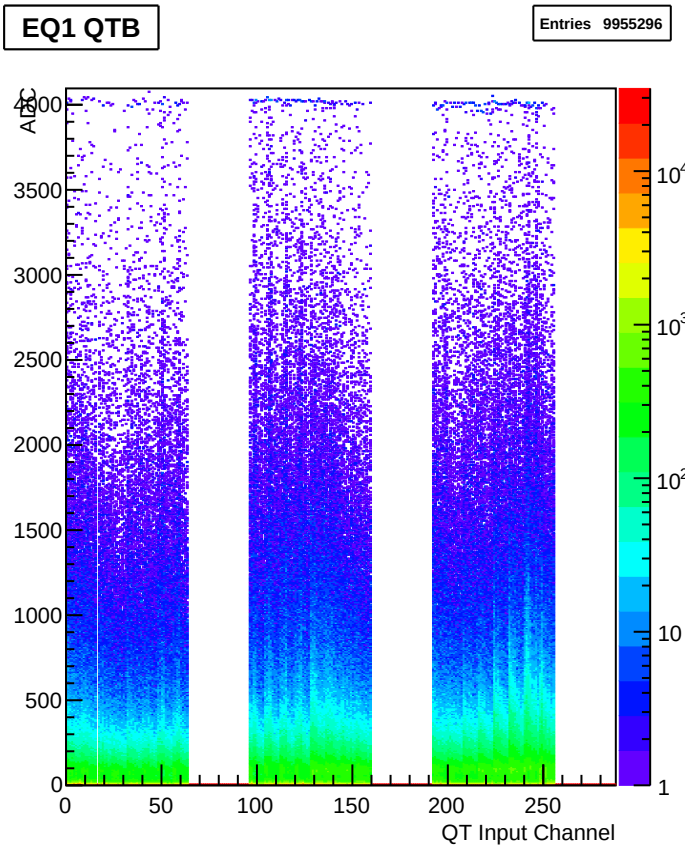

BBQ-ZD001 (ZDC TOWER)
Entries 553072
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

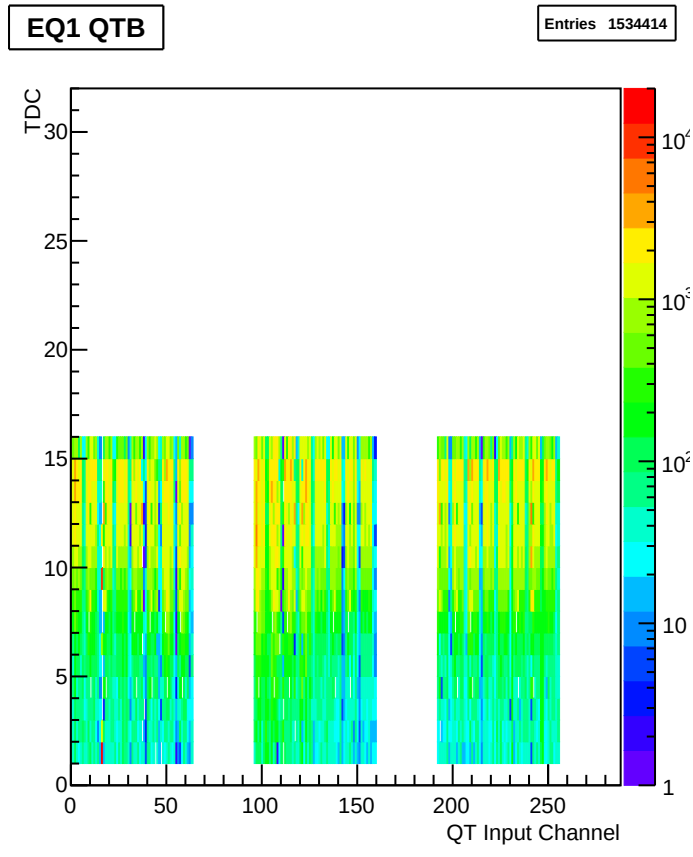

BBQ-VP001 East
Entries 553072
ADC
QT Input Channel

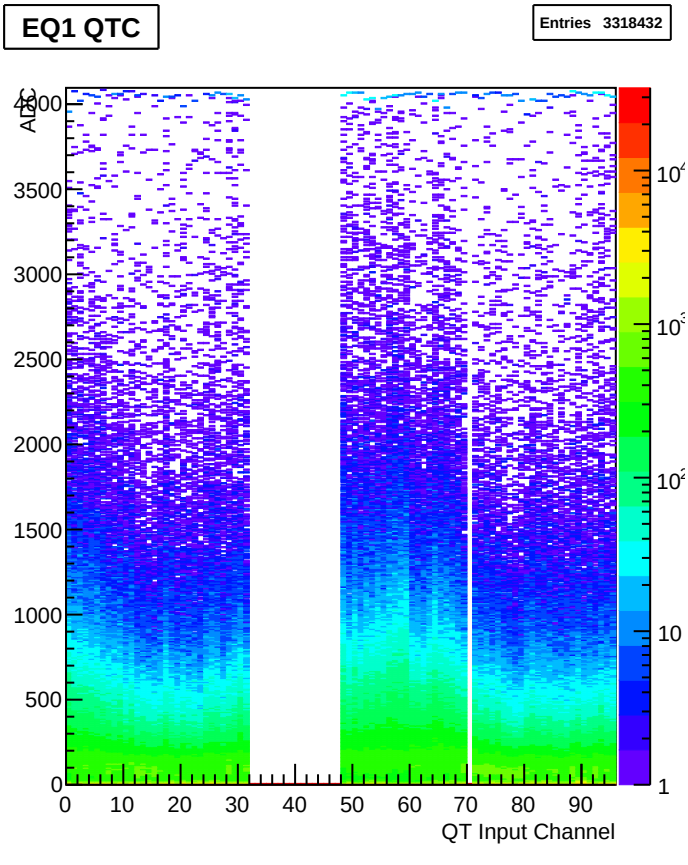

BBQ-VP001 East
Entries 553072
TAC
QT Input Channel

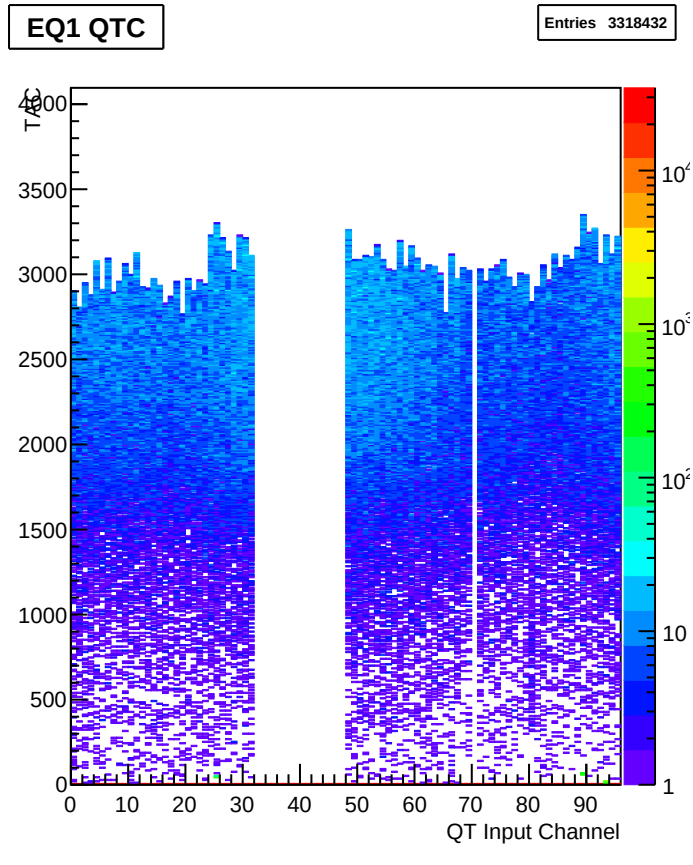

BBQ-VP002 West
Entries 553072
ADC
QT Input Channel

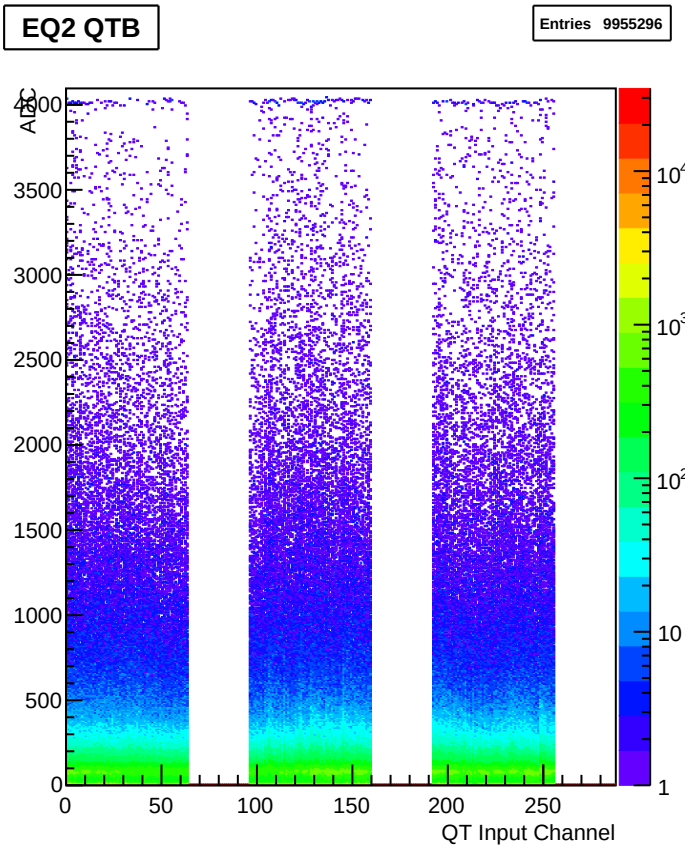

BBQ-VP002 West
Entries 553072
TAC
QT Input Channel

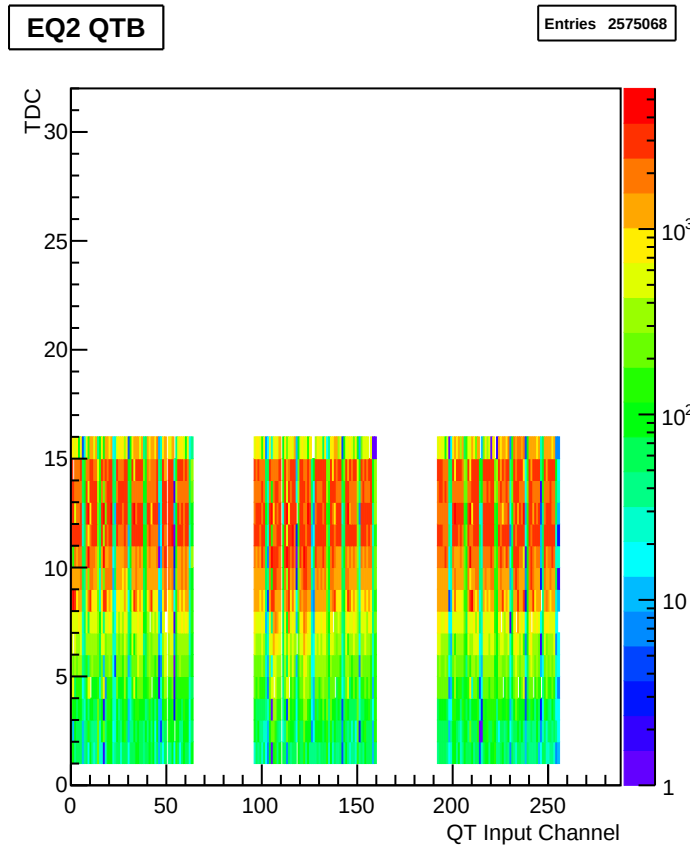

EQ1 QTB
Entries 9955296
ADC
QT Input Channel

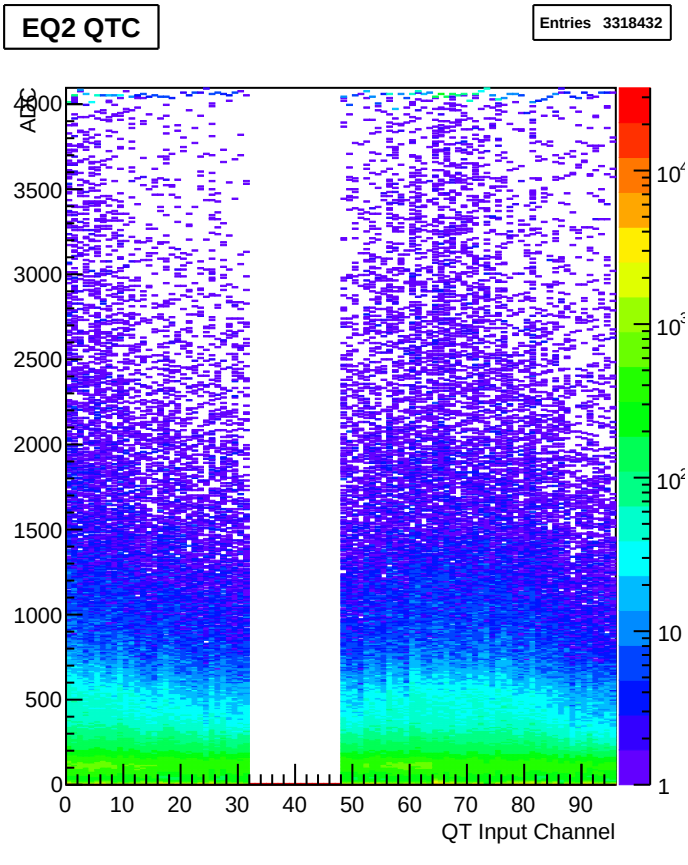

EQ1 QTB
Entries 1534414
TDC
QT Input Channel

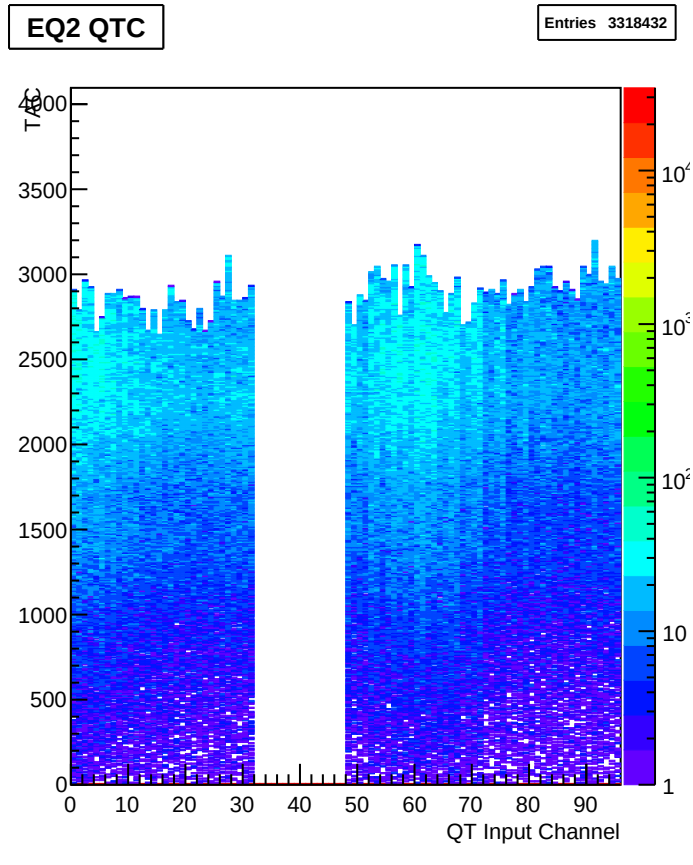

EQ1 QTC
Entries 3318432
ADC
QT Input Channel

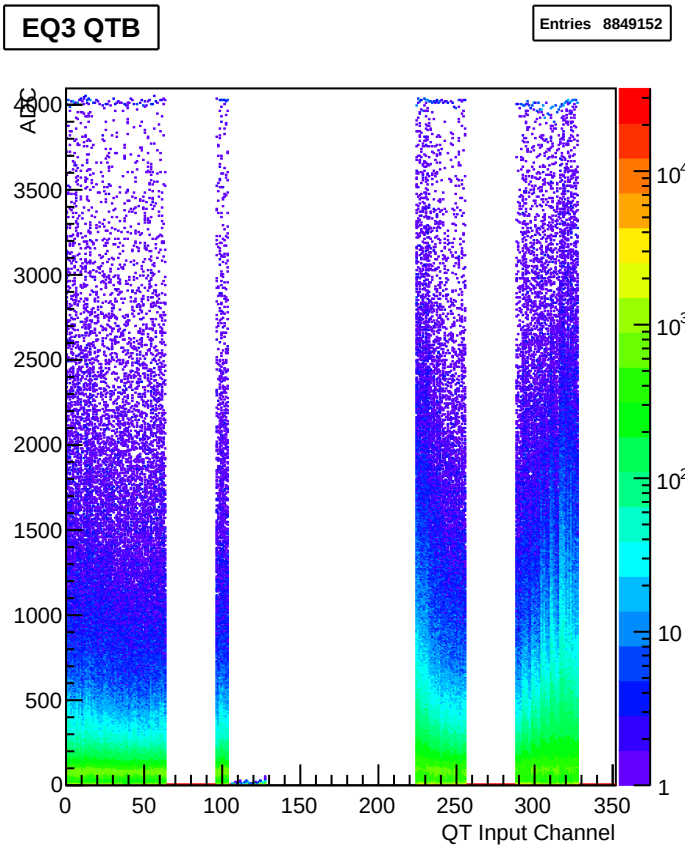

EQ1 QTC
Entries 3318432
TADC
QT Input Channel

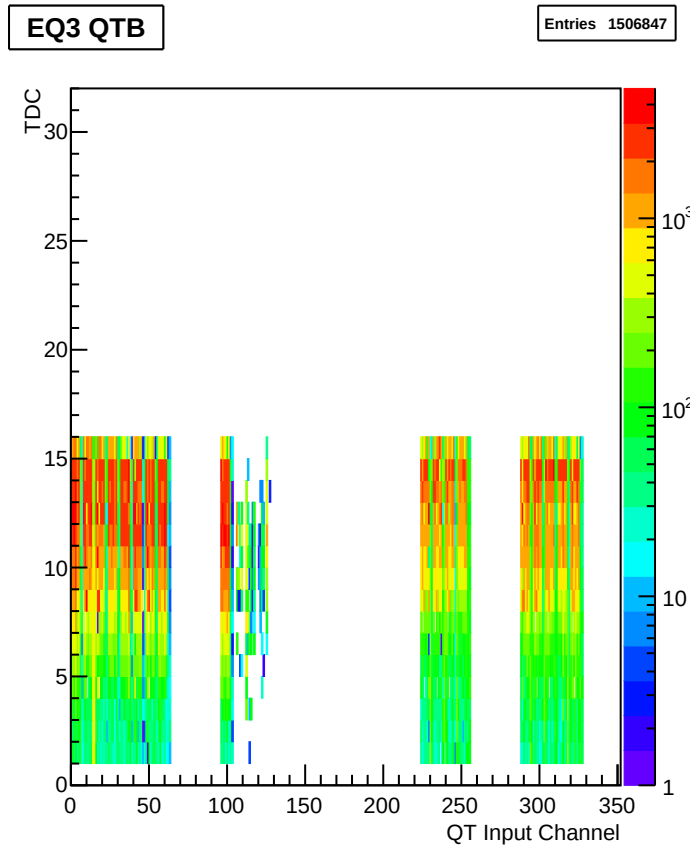

EQ2 QTB
Entries 9955296
ADC
QT Input Channel

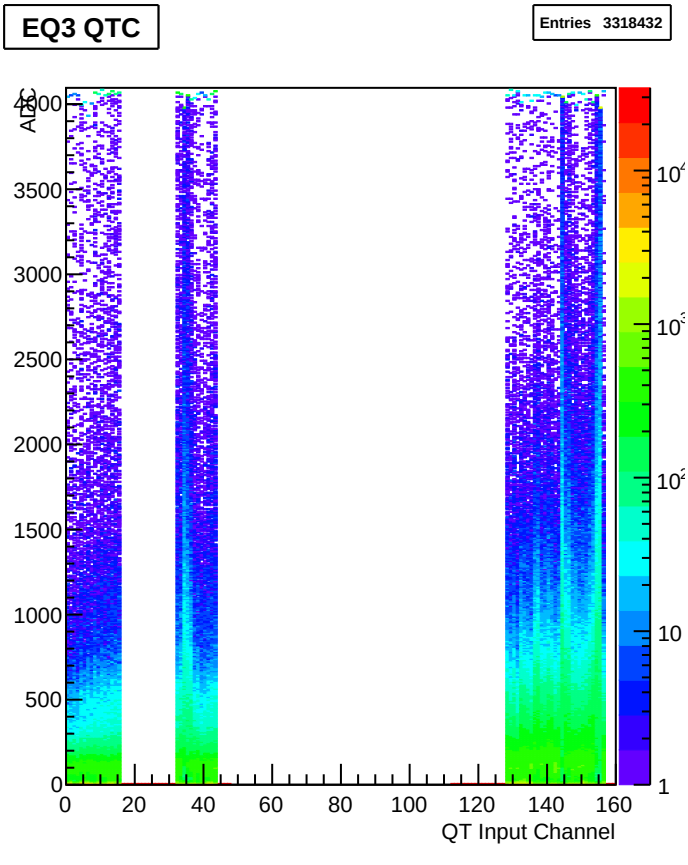

EQ2 QTB
Entries 2575068
TDC
QT Input Channel

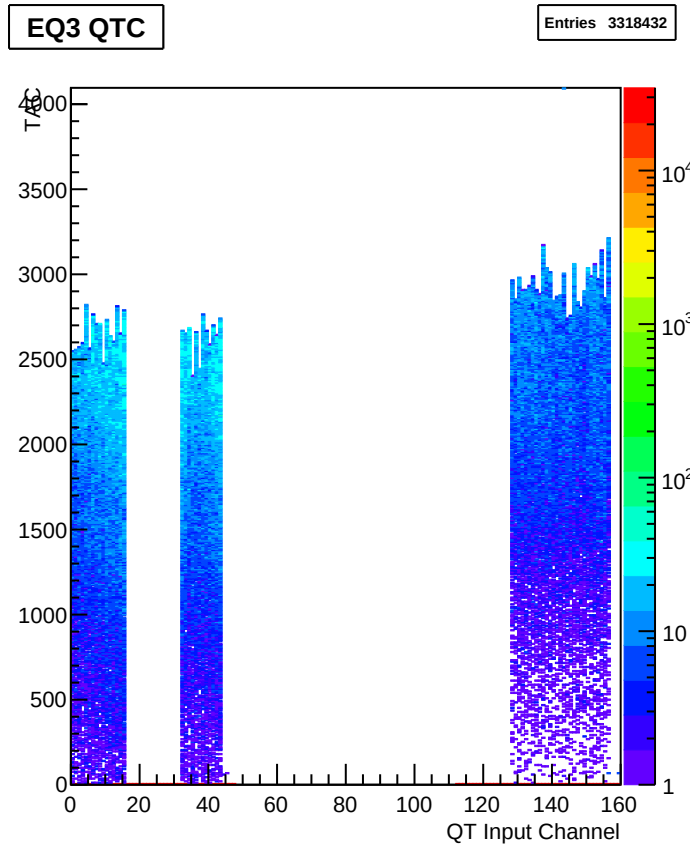

EQ2 QTC
Entries 3318432
ADC
QT Input Channel

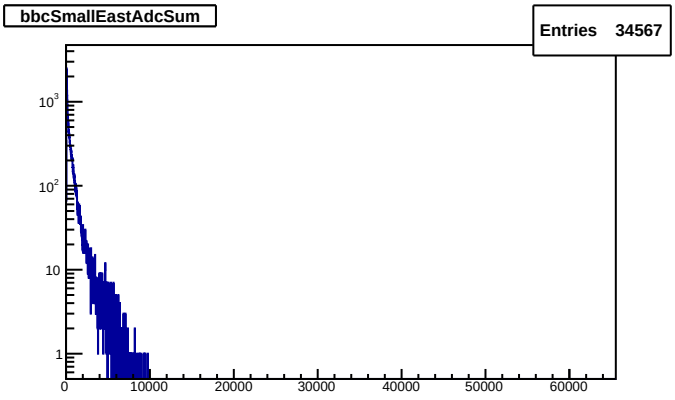

EQ2 QTC
Entries 3318432
TADC
QT Input Channel

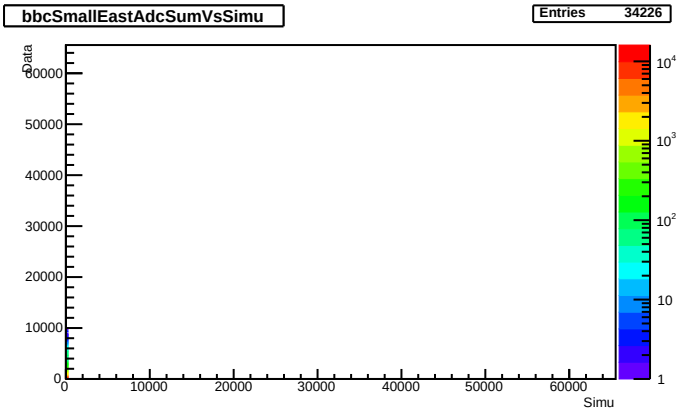

EQ3 QTB
Entries 8849152
ADC
QT Input Channel

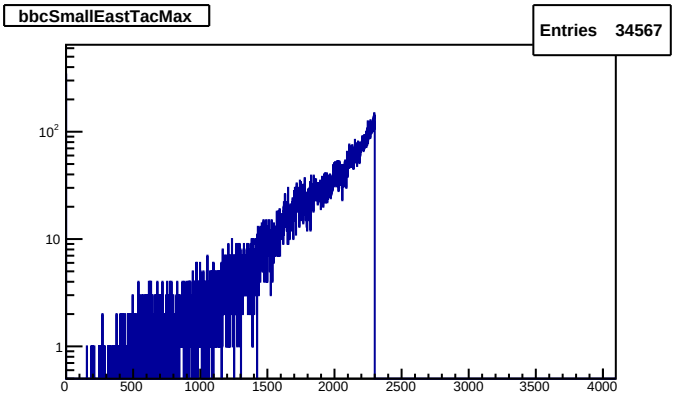

EQ3 QTB
Entries 1506847
TDC
QT Input Channel

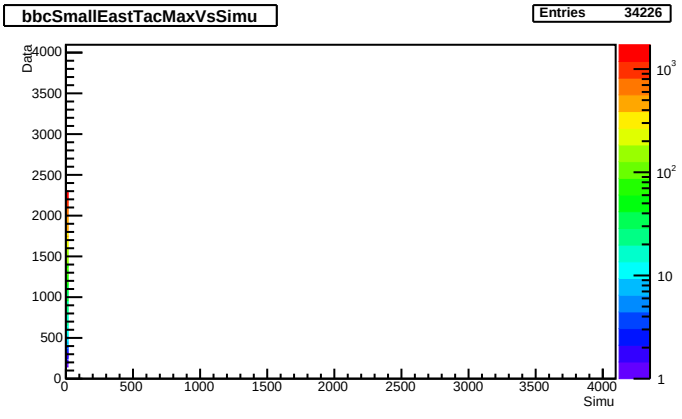

EQ3 QTC
Entries 3318432
ADC
QT Input Channel

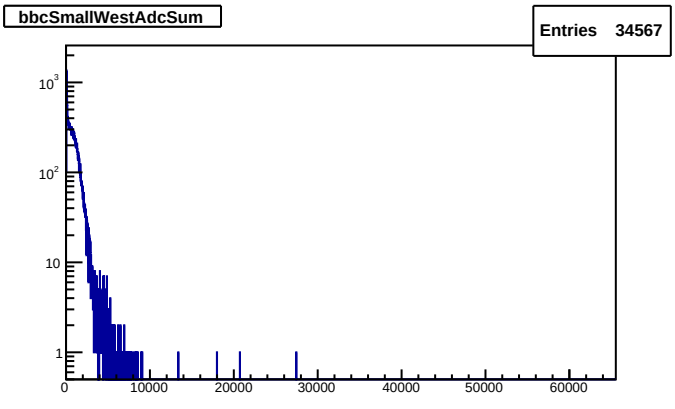

EQ3 QTC
Entries 3318432
TADC
QT Input Channel

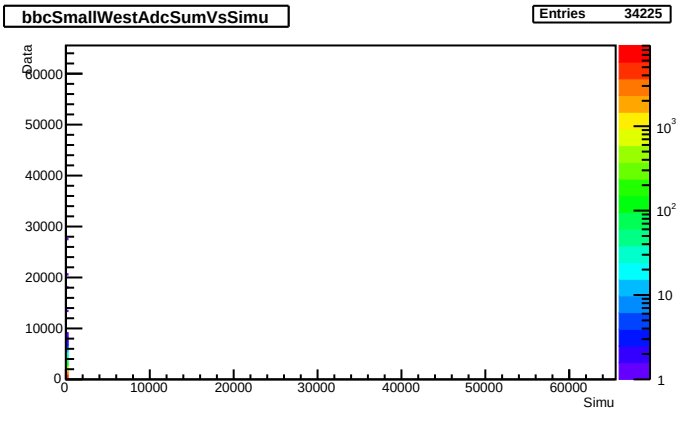

bbcSmallEastAdcSum
Entries 34567

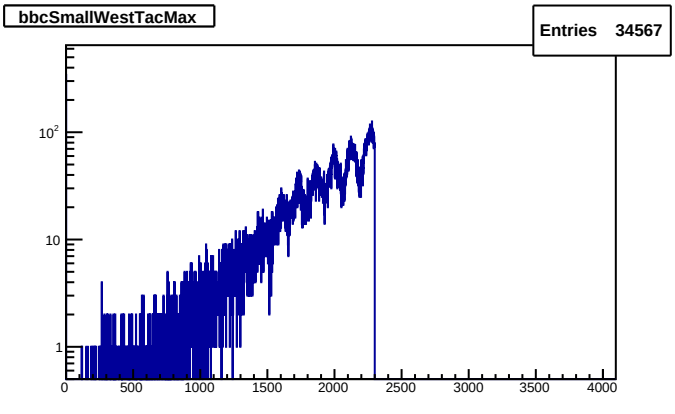

bbcSmallEastAdcSumVsSimu
Entries 34226
Data
Simu

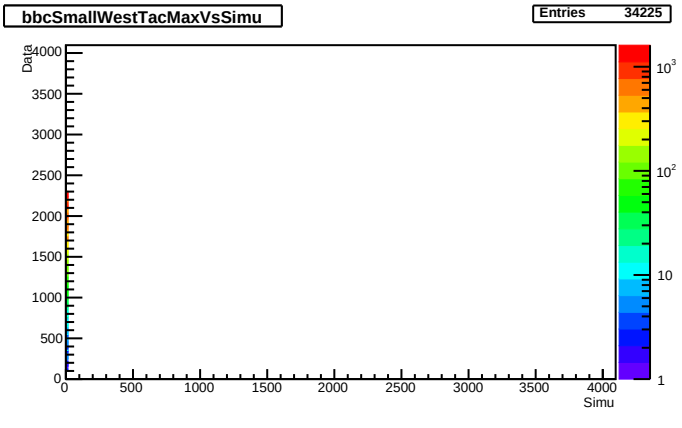

bbcSmallEastTacMax
Entries 34567

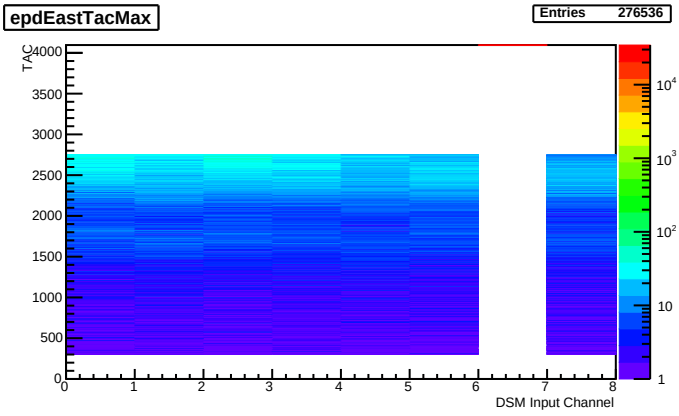

bbcSmallEastTacMaxVsSimu
Entries 34226
Data
Simu

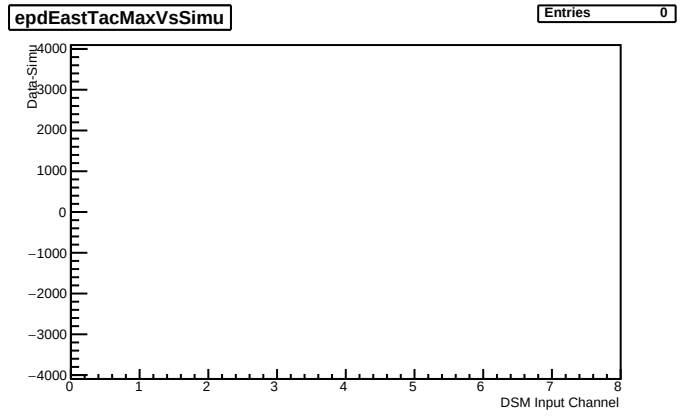

bbcSmallWestAdcSum
Entries 34567

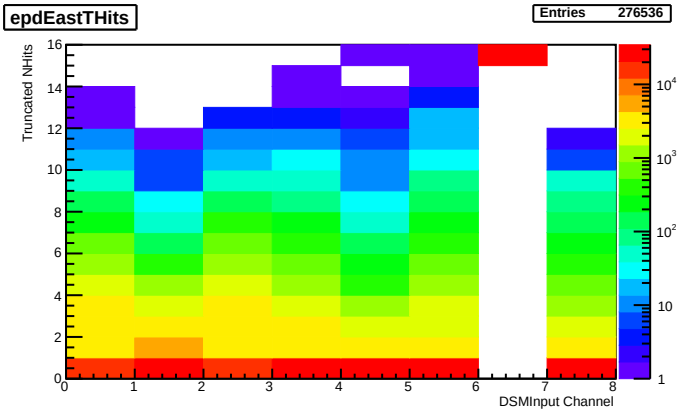

bbcSmallWestAdcSumVsSimu
Entries 34225
Data
Simu

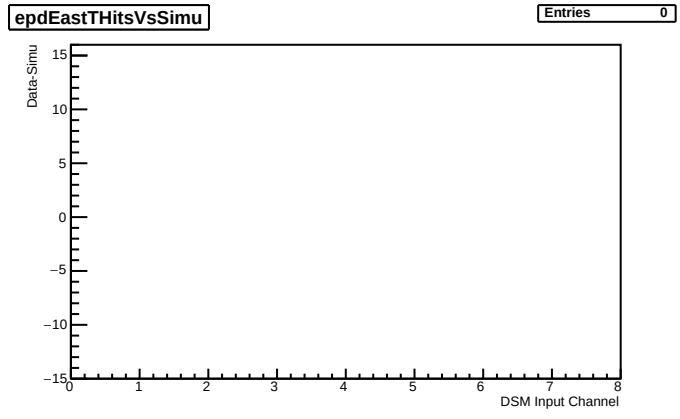

bbcSmallWestTacMax
Entries 34567

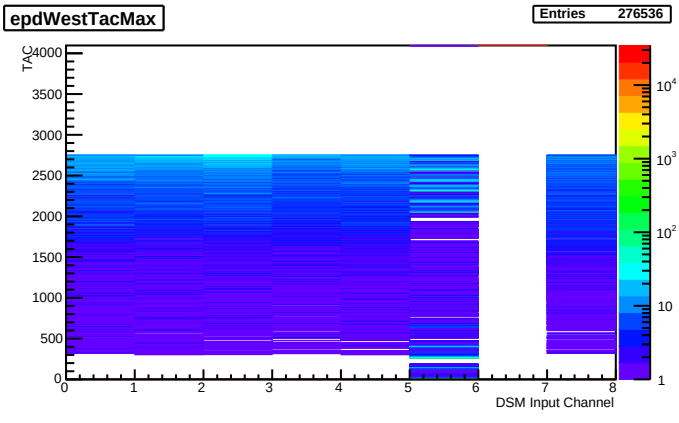

bbcSmallWestTacMaxVsSimu
Entries 34225
Data
Simu

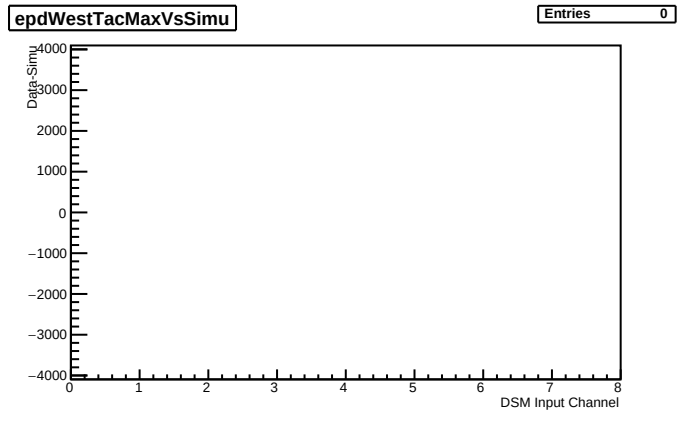

epdEastTacMax
Entries 276536
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 276536
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 276536
TAC
DSM Input Channel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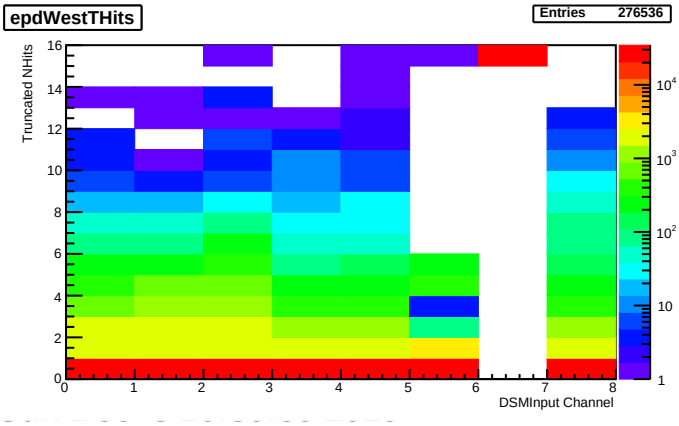
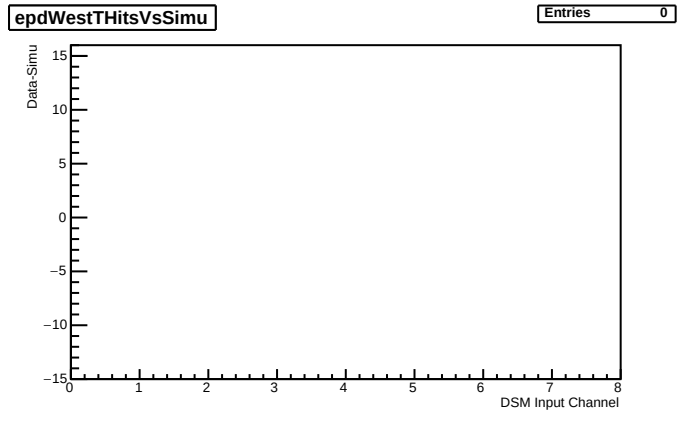
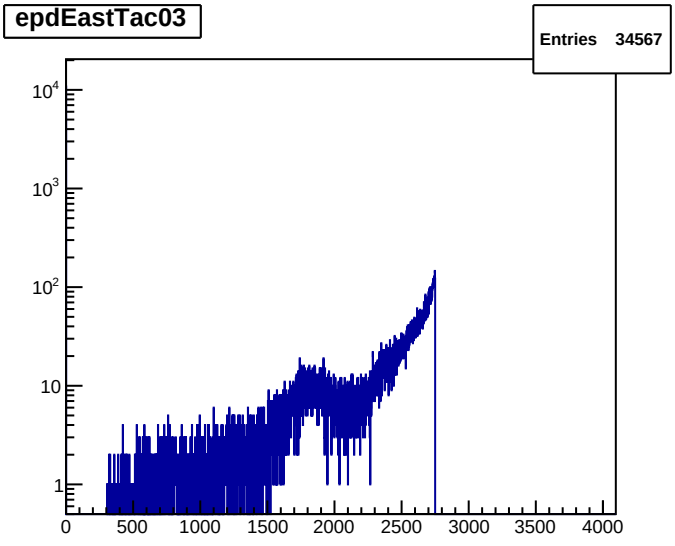
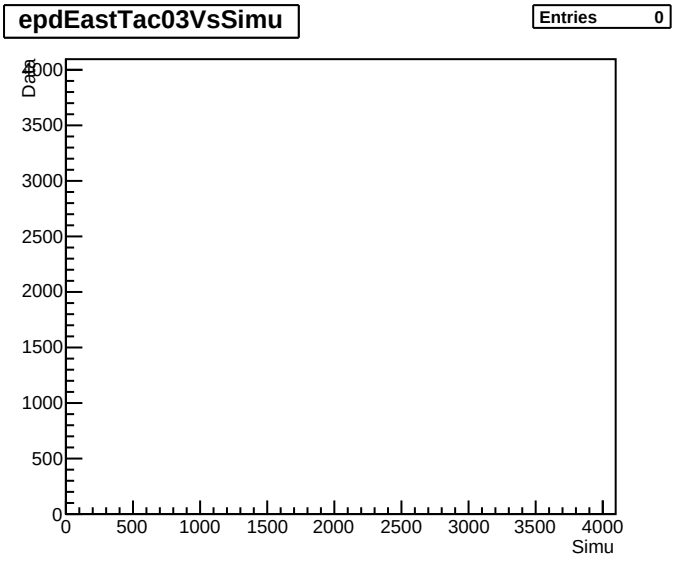
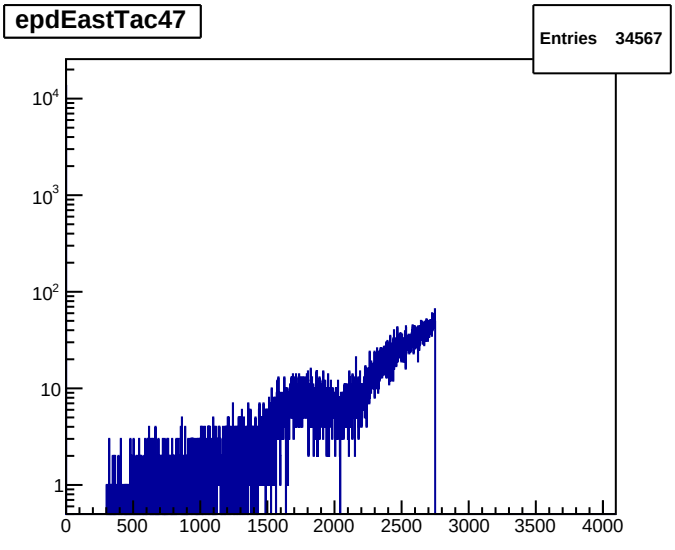
Entries 0
Data-Simu
DSM Input Channel

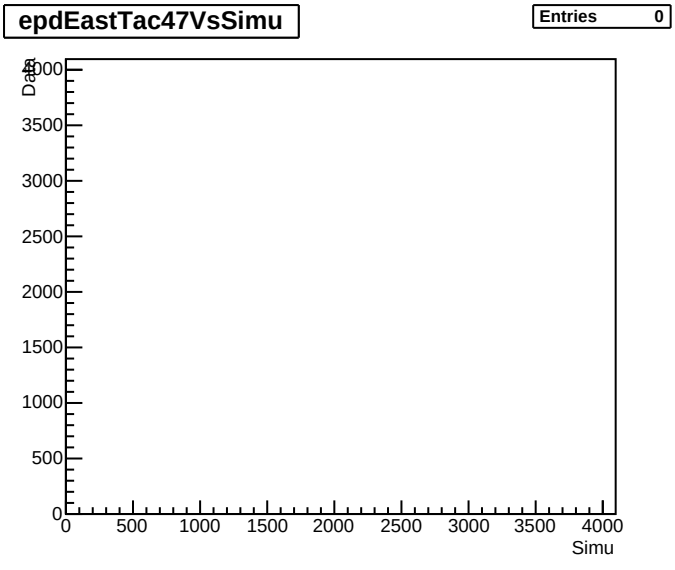

epdWestTHits
Entries 276536
Truncated NHits
DSMInput Channel

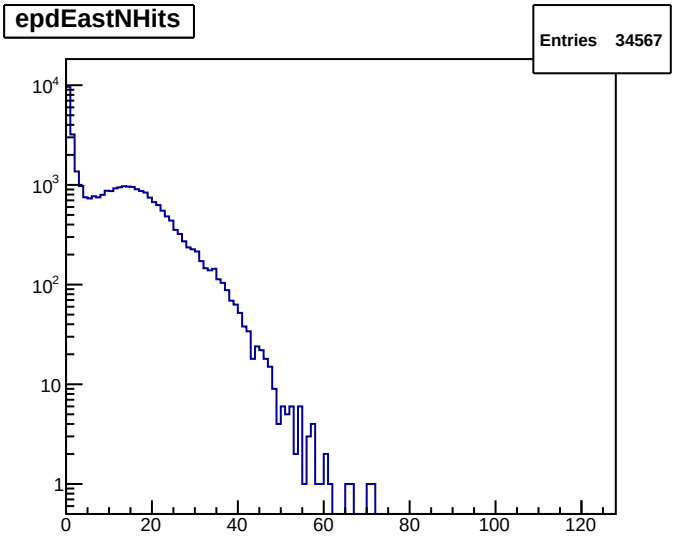

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

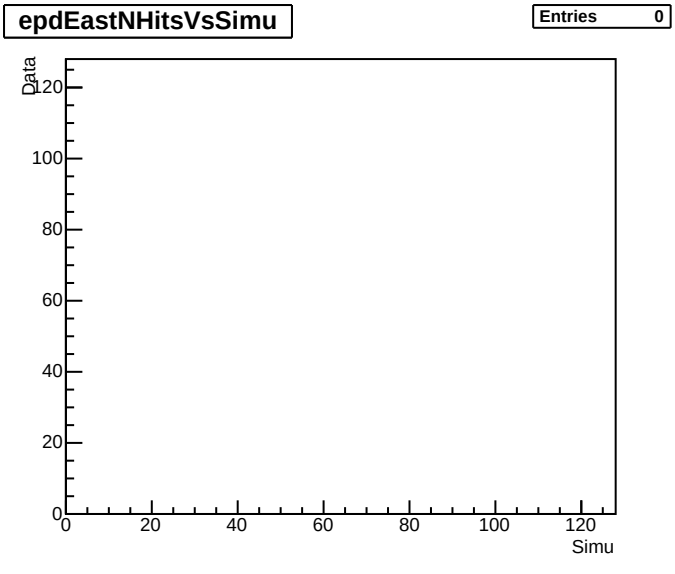

epdEastTac03
Entries 34567

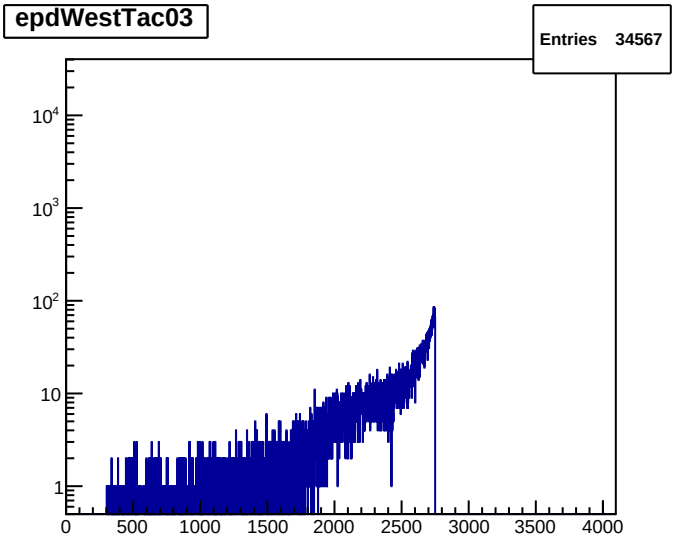

epdEastTac03VsSimu
Entries 0
Data
Simu

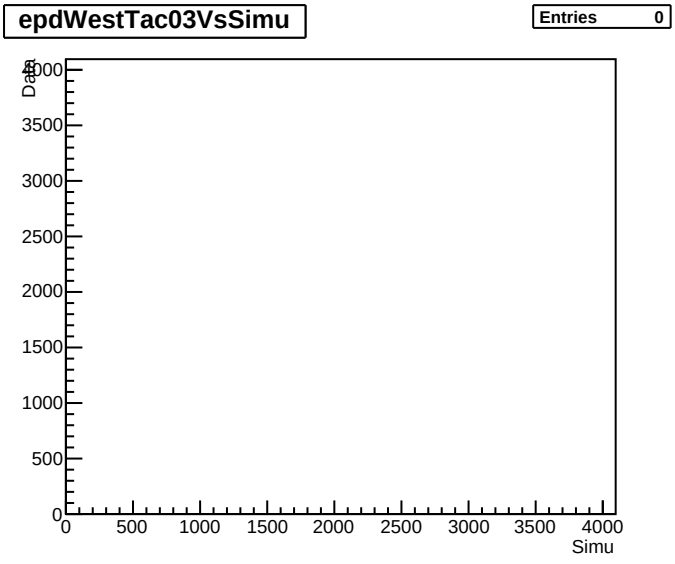

epdEastTac47
Entries 34567


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 34567


epdEastNHitsVsSimu
Entries 0
Data
Simu


epdWestTac03
Entries 34567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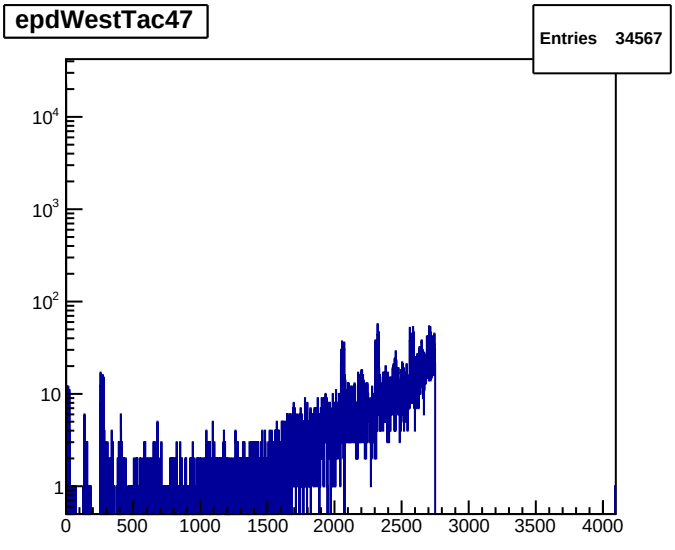
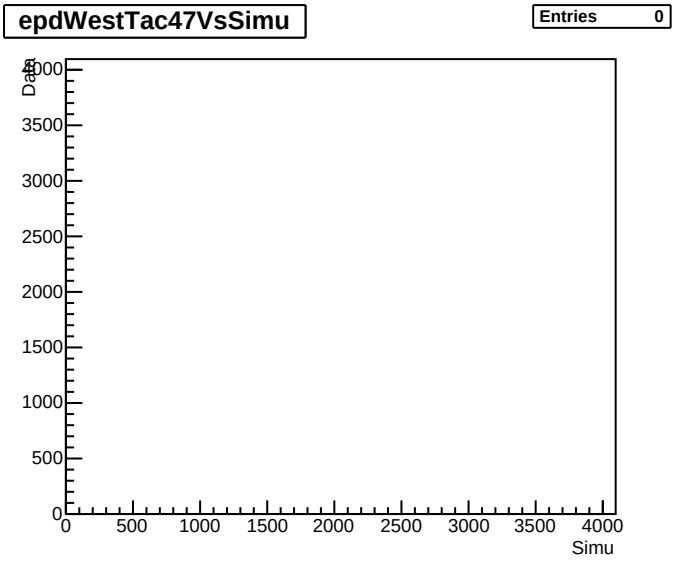
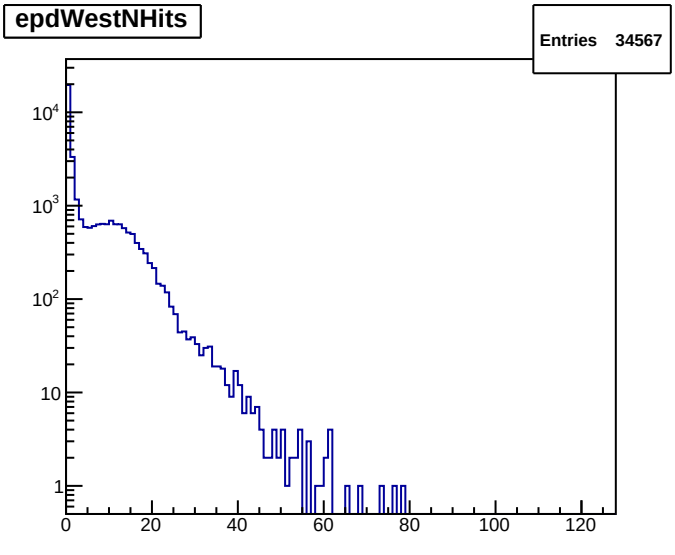
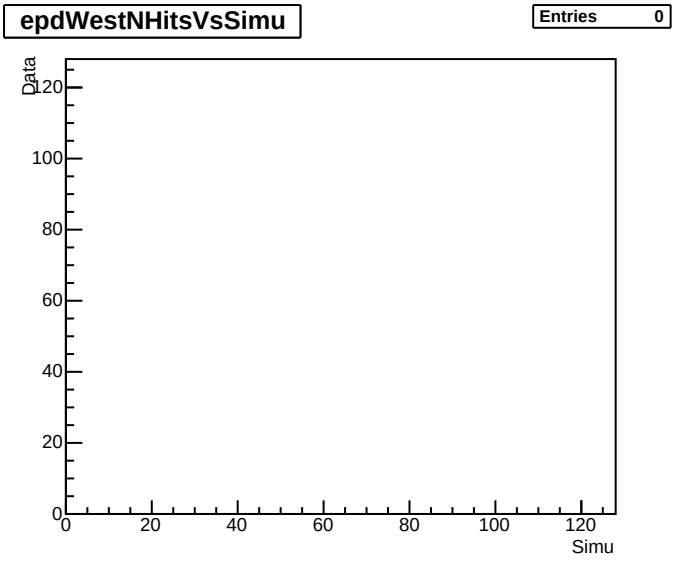
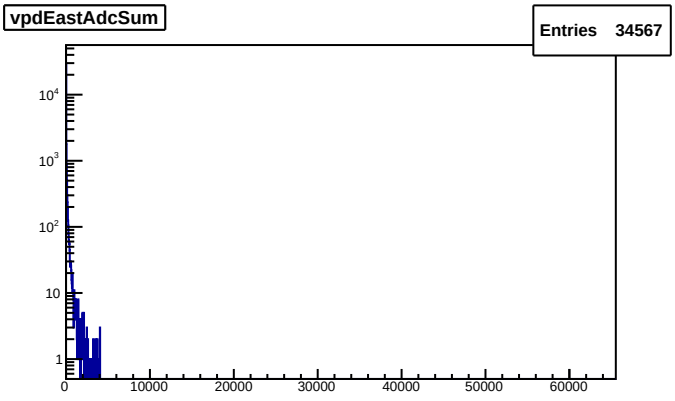
Entries 0
Data
Simu

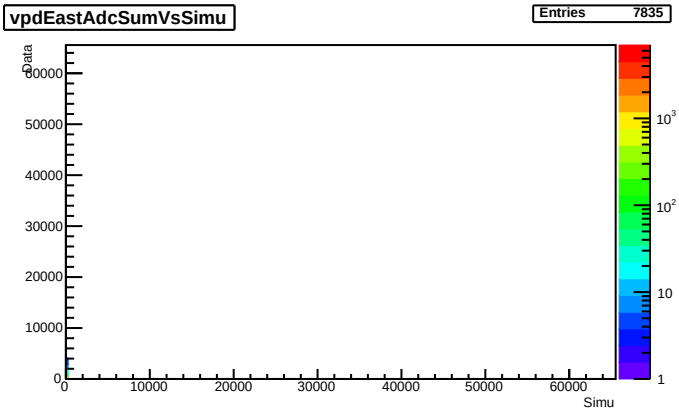

epdWestTac47
Entries 34567

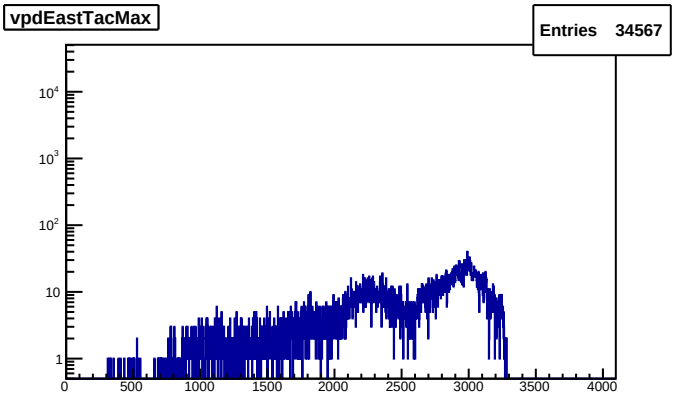

epdWestTac47VsSimu
Entries 0
Data
Simu

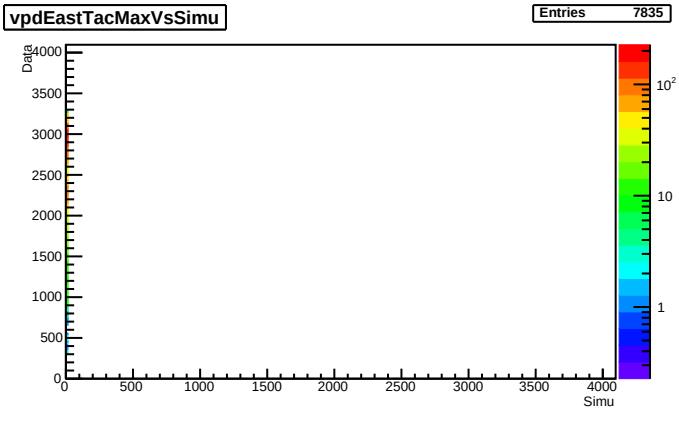

epdWestNHits
Entries 34567

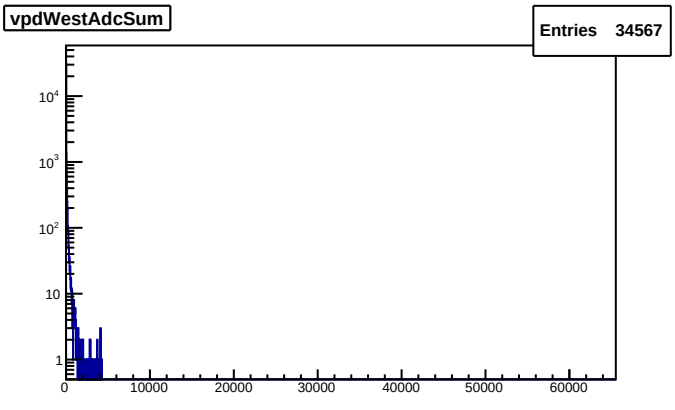

epdWestNHitsVsSimu
Entries 0
Data
Simu

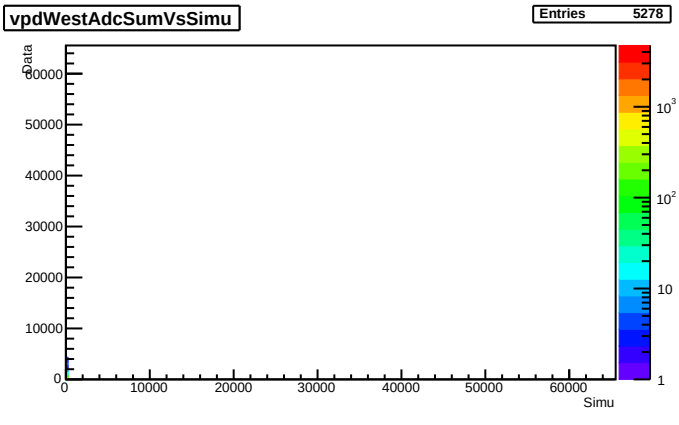

vpdEastAdcSum
Entries 34567

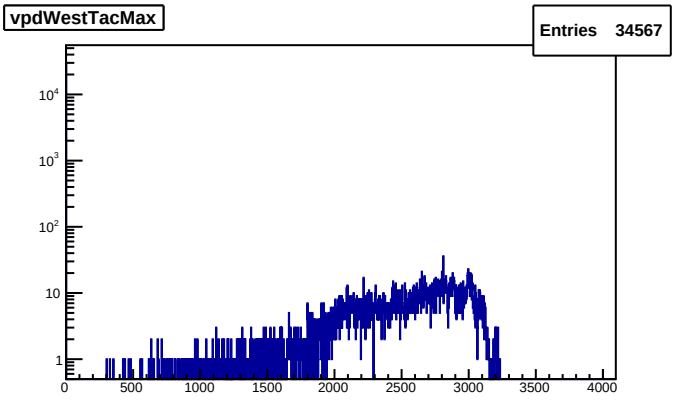

vpdEastAdcSumVsSimu
Entries 7835
Data
Simu

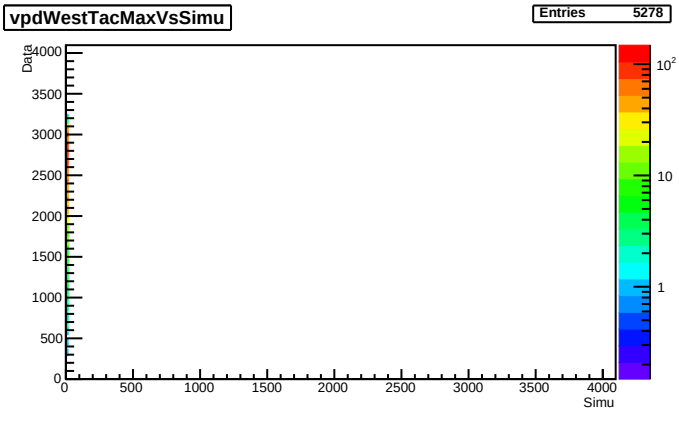

vpdEastTacMax
Entries 34567

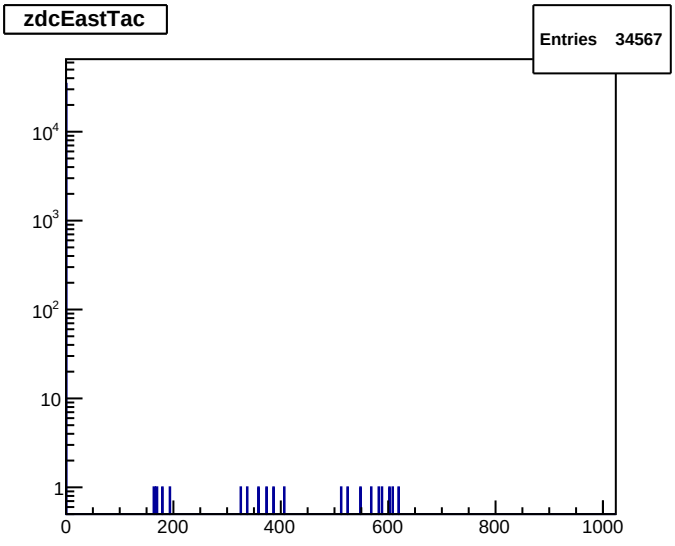

vpdEastTacMaxVsSimu
Entries 7835
Data
Simu

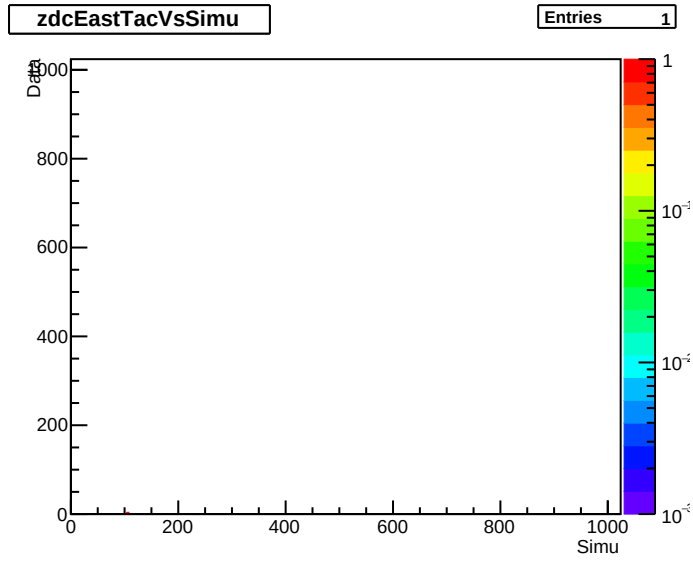

vpdWestAdcSum
Entries 34567

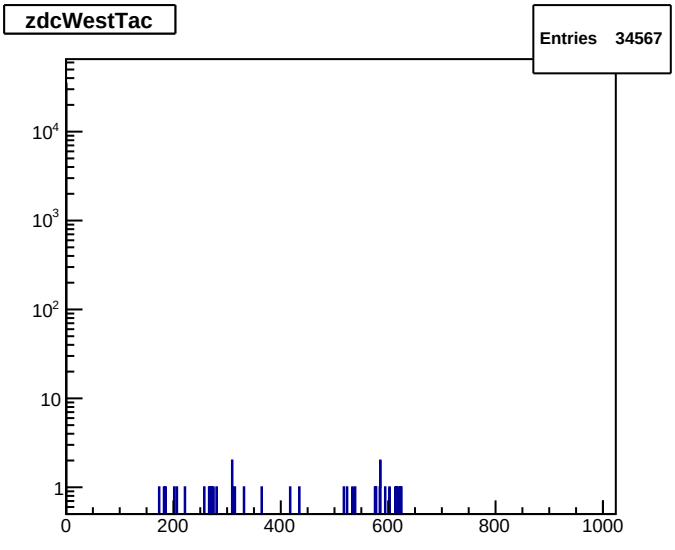

vpdWestAdcSumVsSimu
Entries 5278
Data
Simu

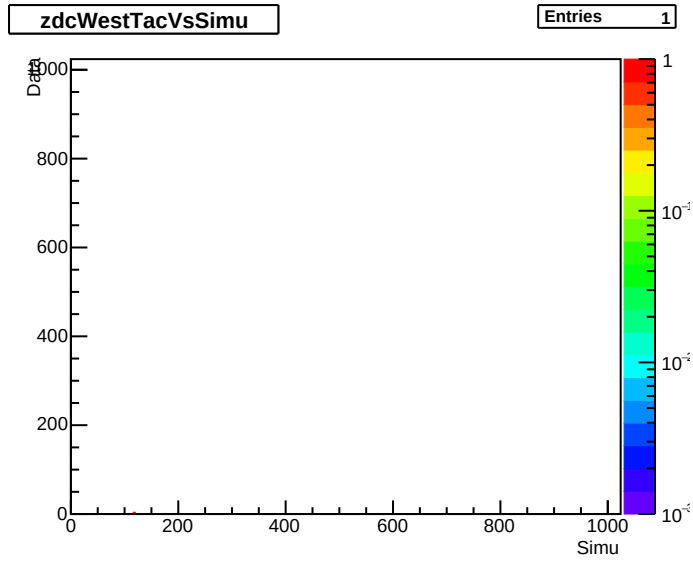

vpdWestTacMax
Entries 34567

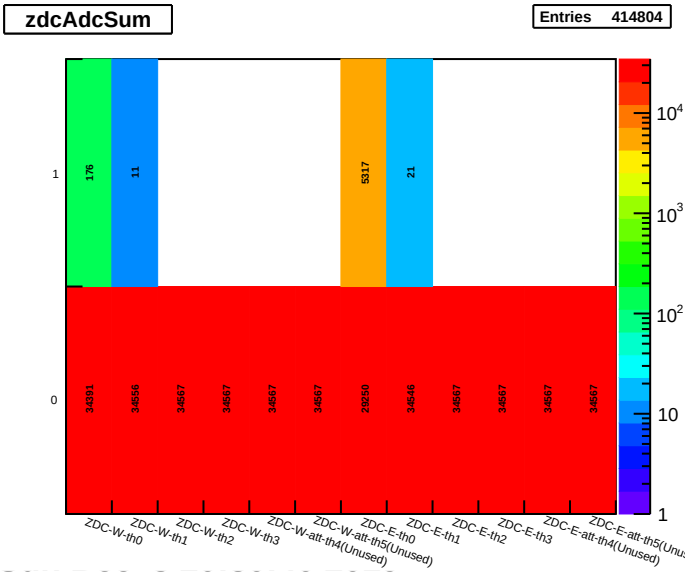

vpdWestTacMaxVsSimu
Entries 5278
Data
Simu

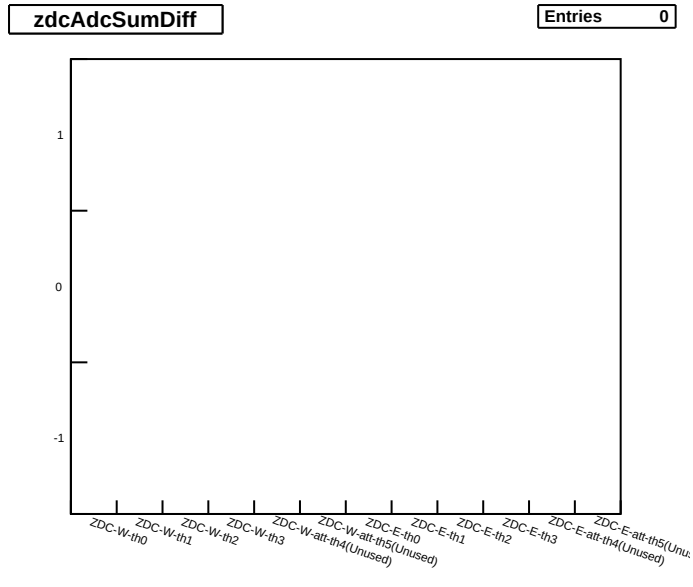

zdcEastTac
Entries 34567

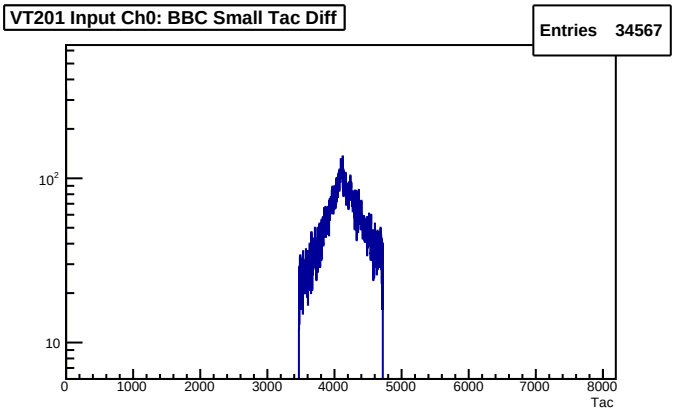

zdcEastTacVsSimu
Entries 1
Data
Simu

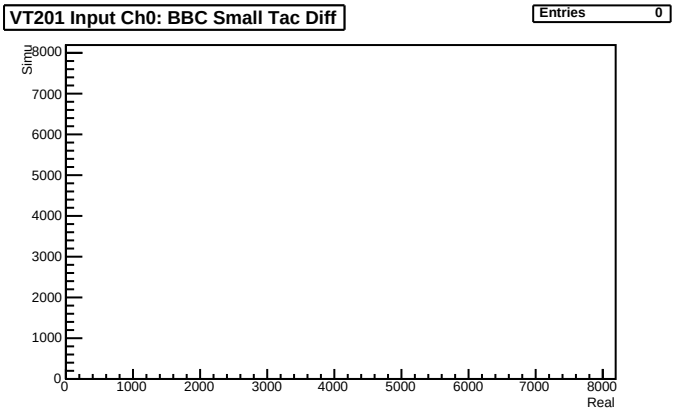

zdcWestTac
Entries 34567

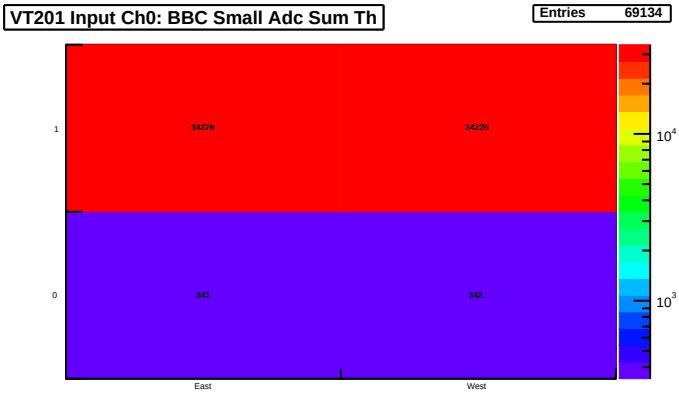

zdcWestTacVsSimu
Entries 1
Data
Simu

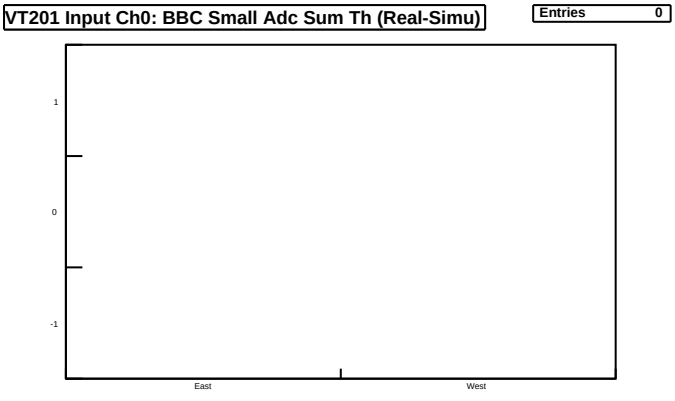

zdcAdcSum
Entries 414804
176
11
5317
21
34391
34556
34567
29250
34546
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

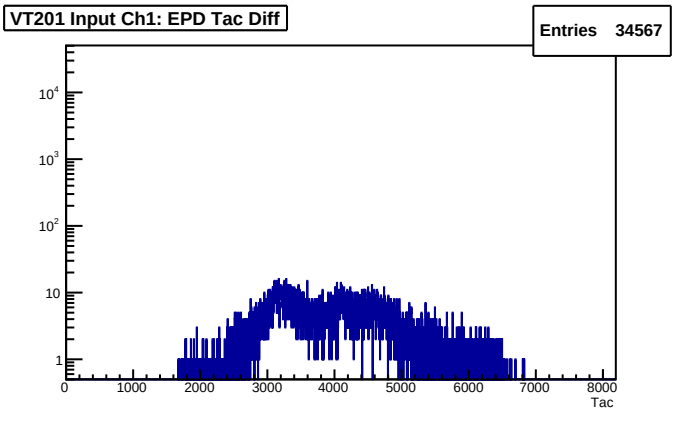

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

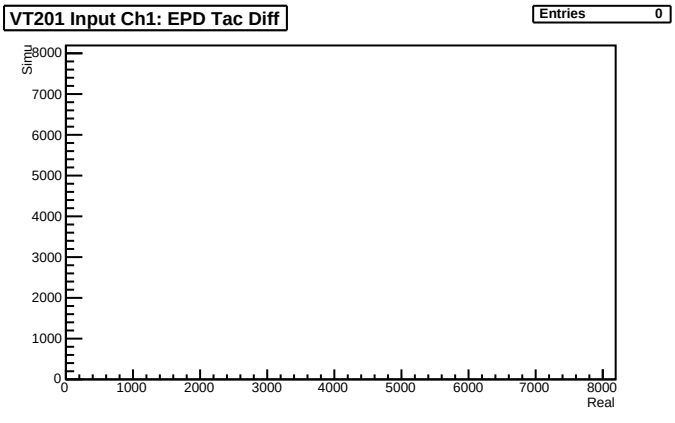

VT201 Input Ch0: BBC Small Tac Diff
Entries 34567
Tac

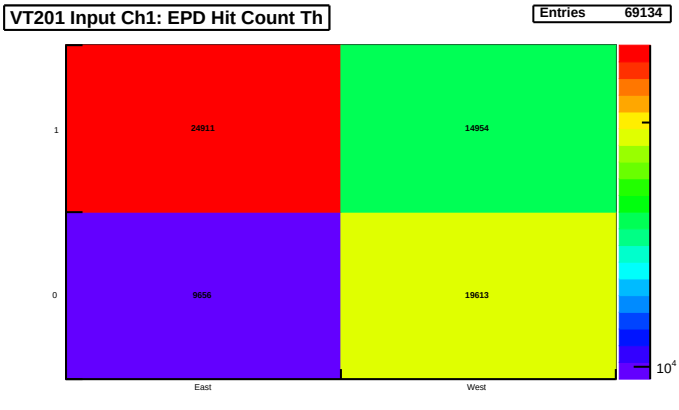

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

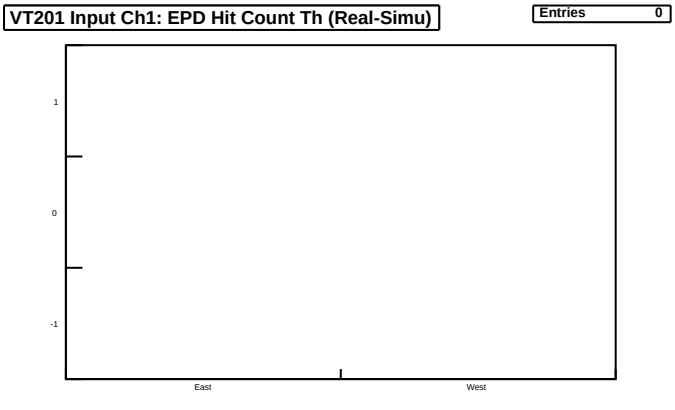

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 69134
34226
34225
341
342
East
West

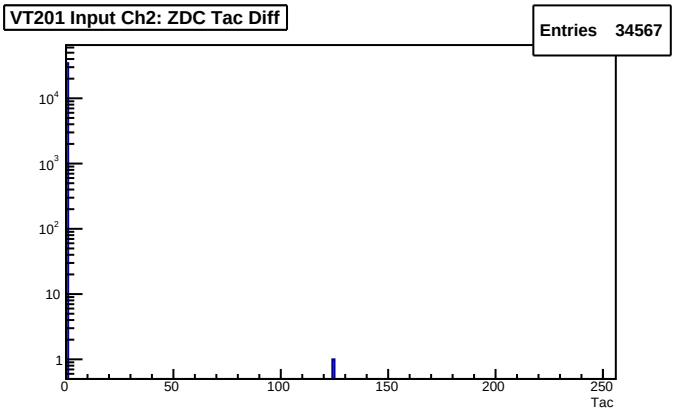

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

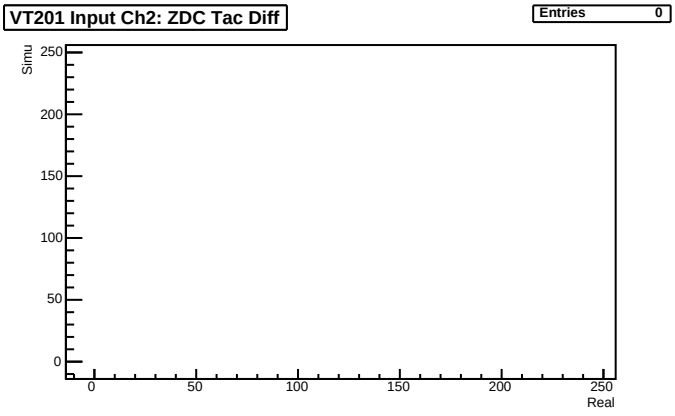

VT201 Input Ch1: EPD Tac Diff
Entries 34567
Tac

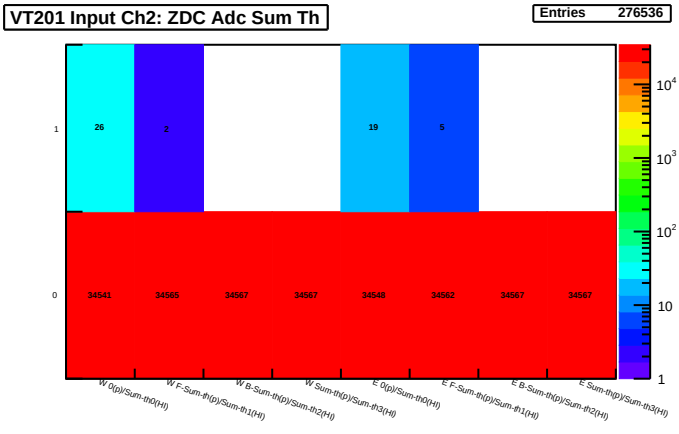

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

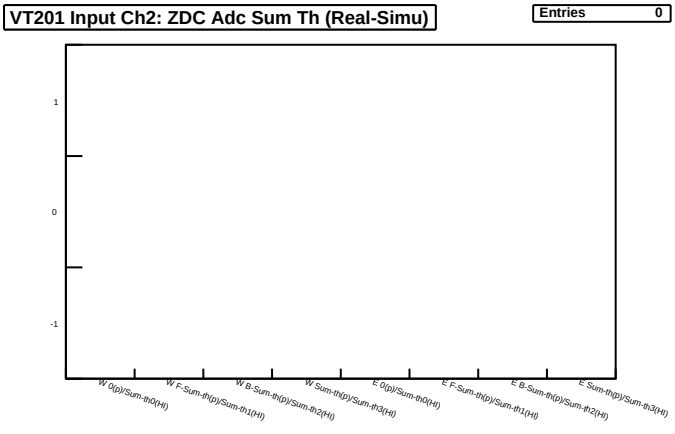

VT201 Input Ch1: EPD Hit Count Th
Entries 69134
24911
14954
9656
19613
East
West

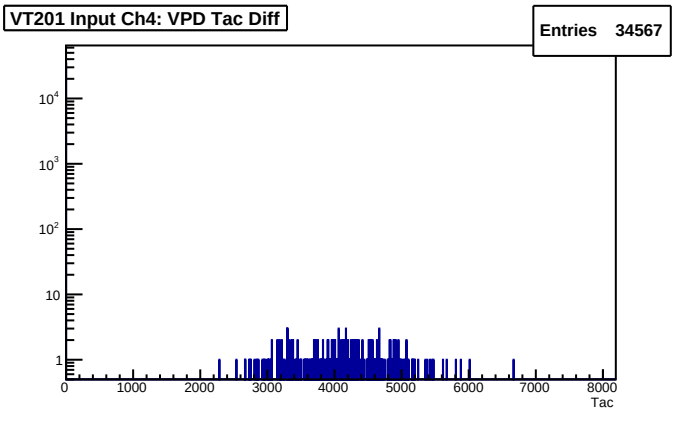

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

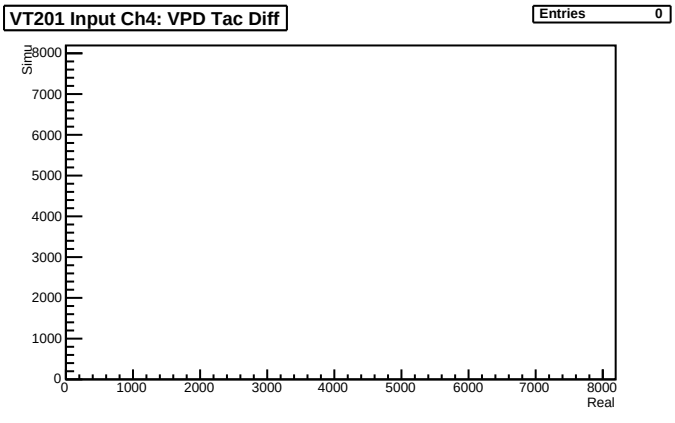

VT201 Input Ch2: ZDC Tac Diff
Entries 34567
Tac

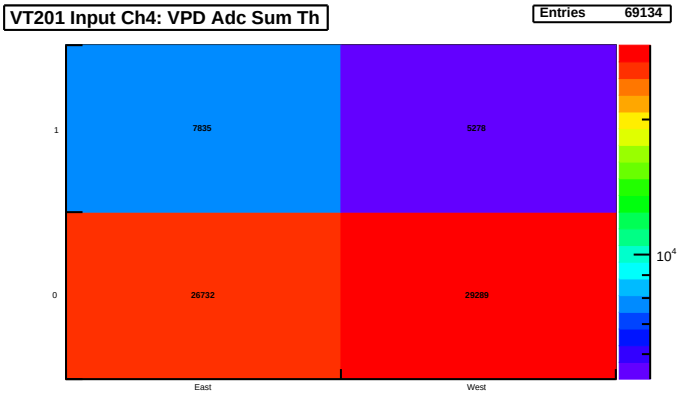

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

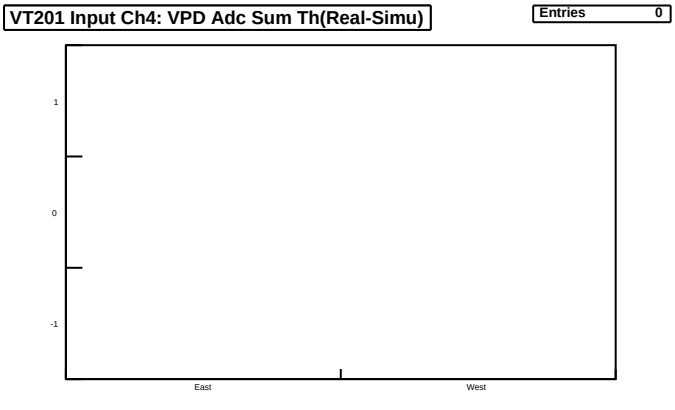

VT201 Input Ch2: ZDC Adc Sum Th
Entries 276536
26
2
19
5
34541
34565
34567
34567
34548
34562
34567
34567
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

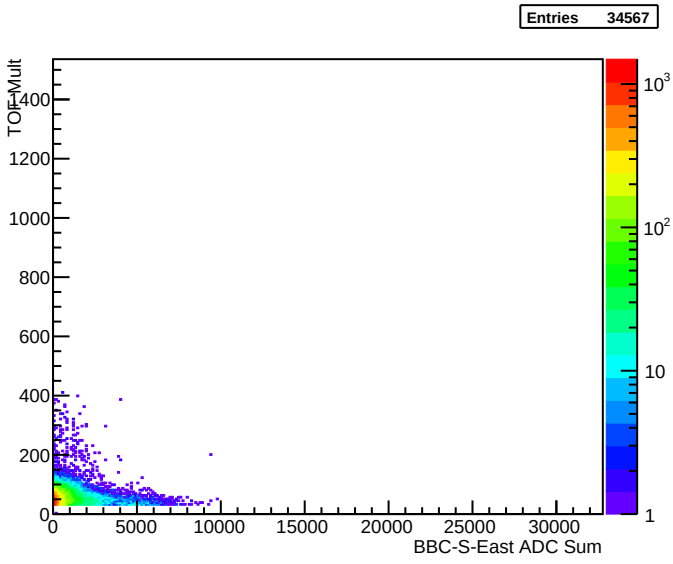

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

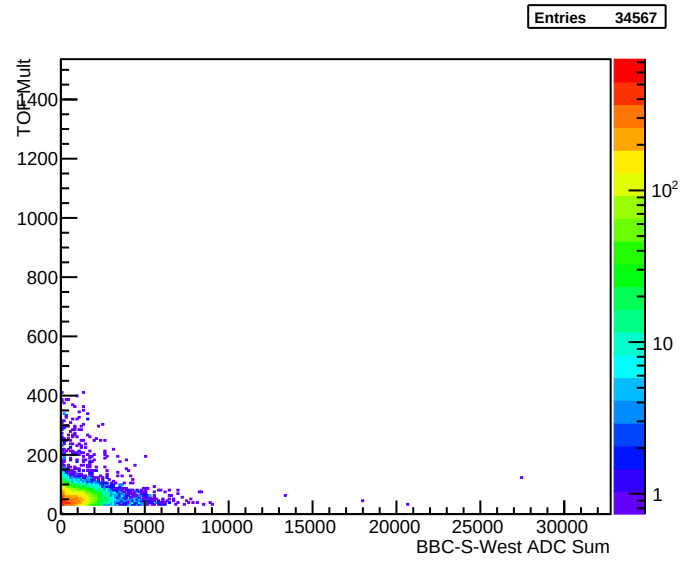

VT201 Input Ch4: VPD Tac Diff
Entries 34567
Tac

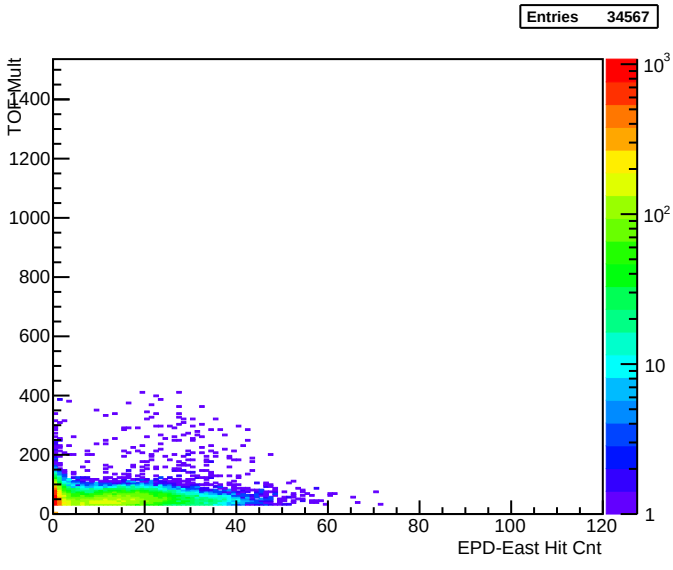

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

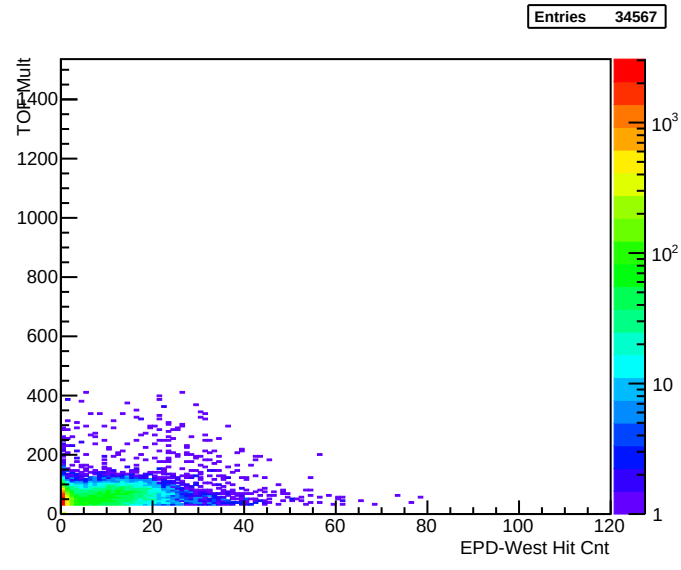

VT201 Input Ch4: VPD Adc Sum Th
Entries 69134
7835
5278
26732
29289
East
West

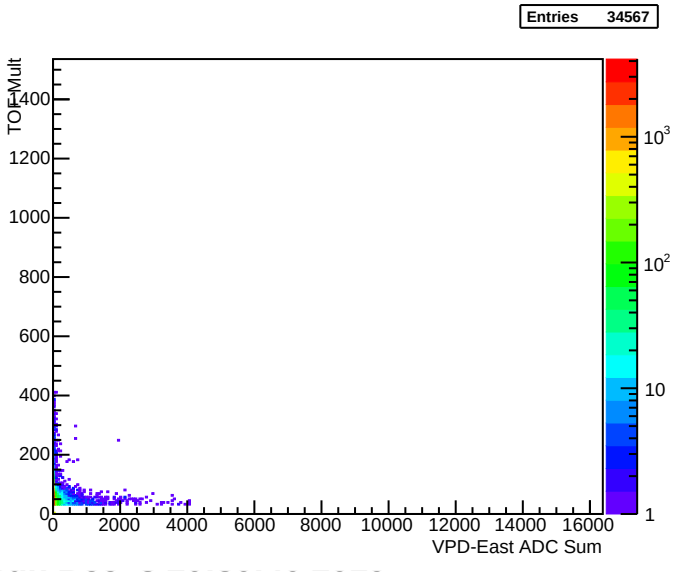

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

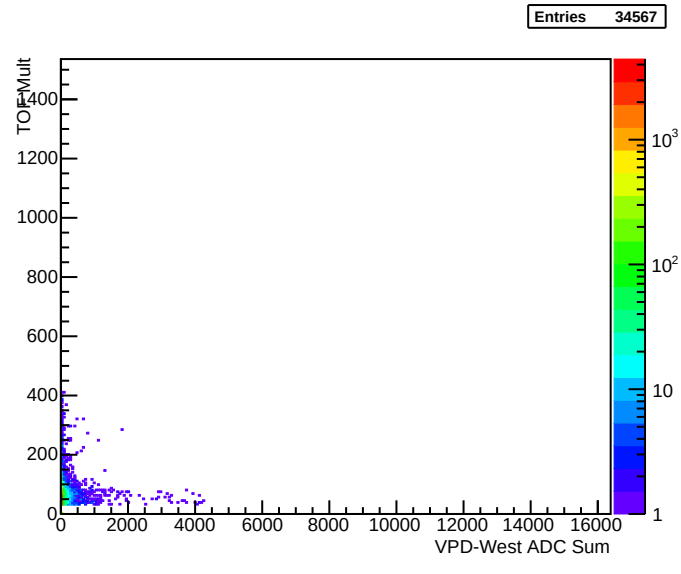

Entries 34567
TOF-Mult
BBC-S-East ADC Sum

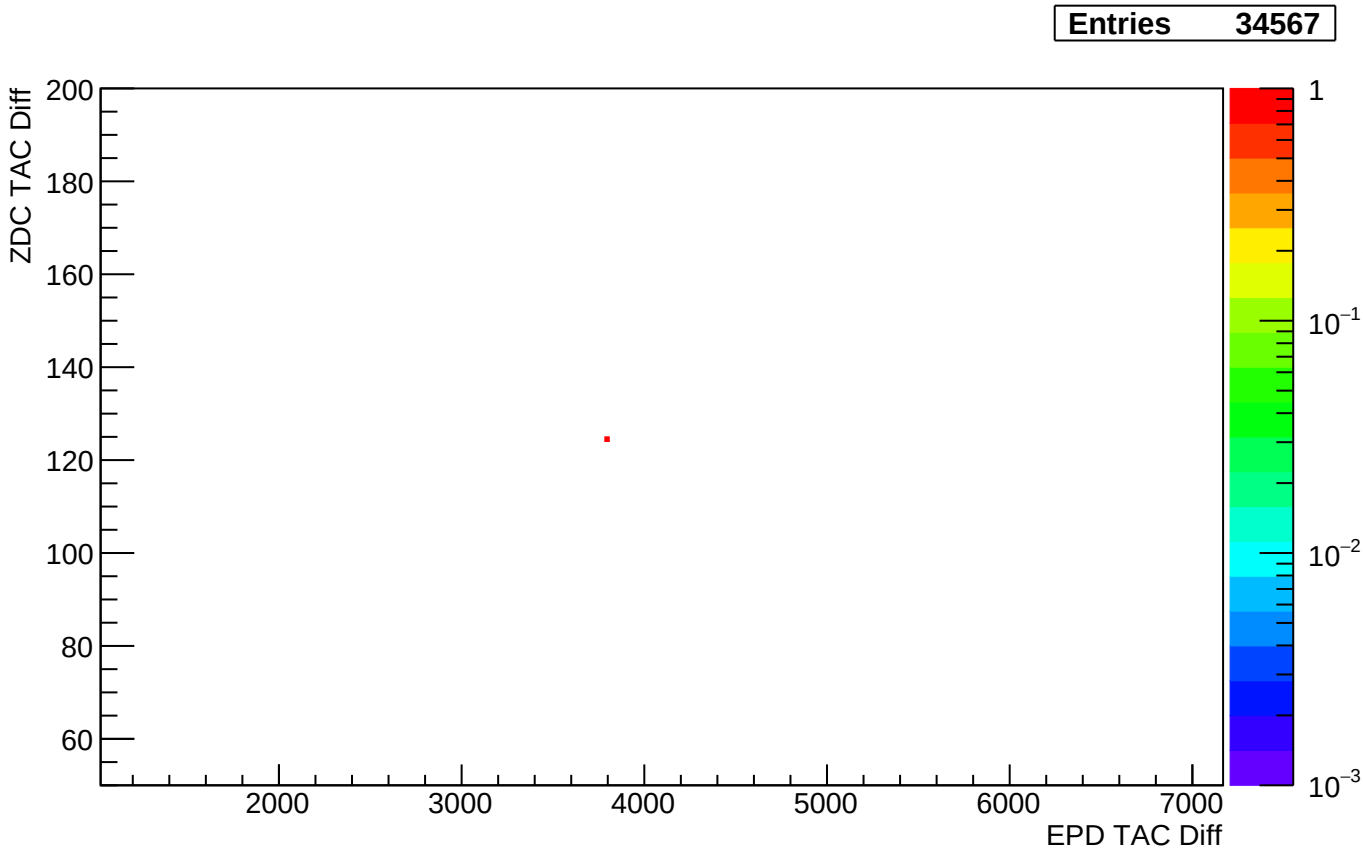

Entries 34567
TOF-Mult
BBC-S-West ADC Sum

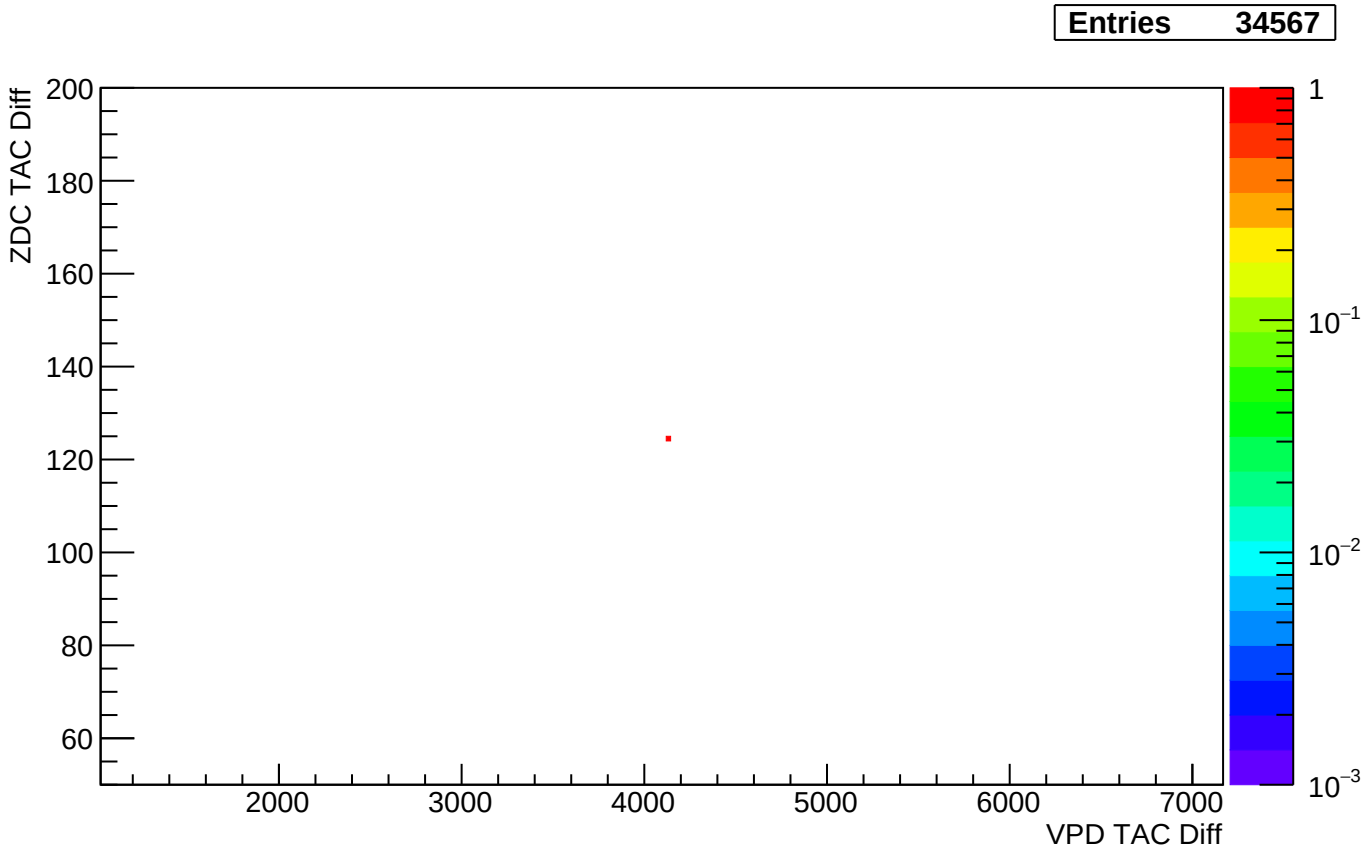

Entries 34567
TOF-Mult
EPD-East Hit Cnt

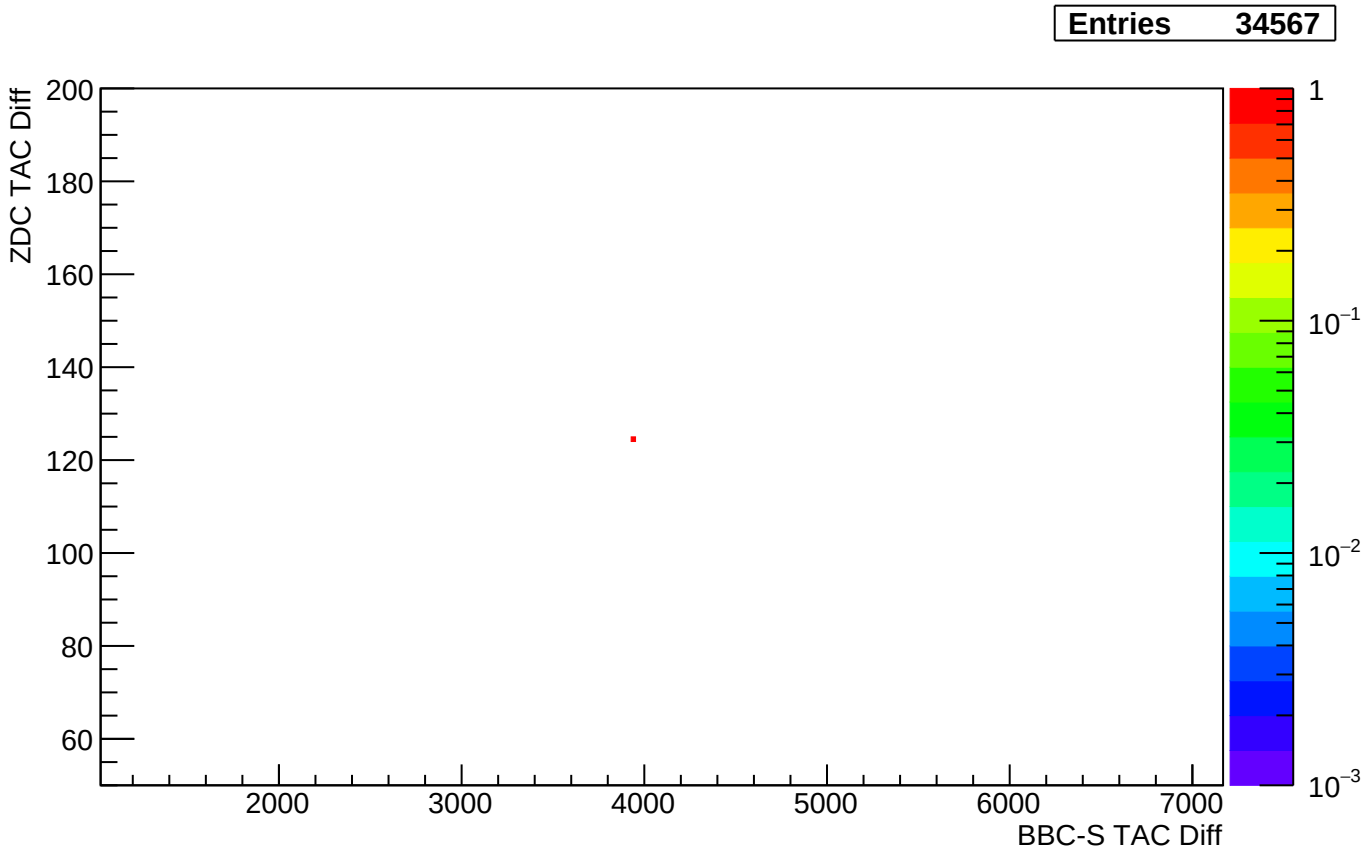

Entries 34567
TOF-Mult
EPD-West Hit Cnt

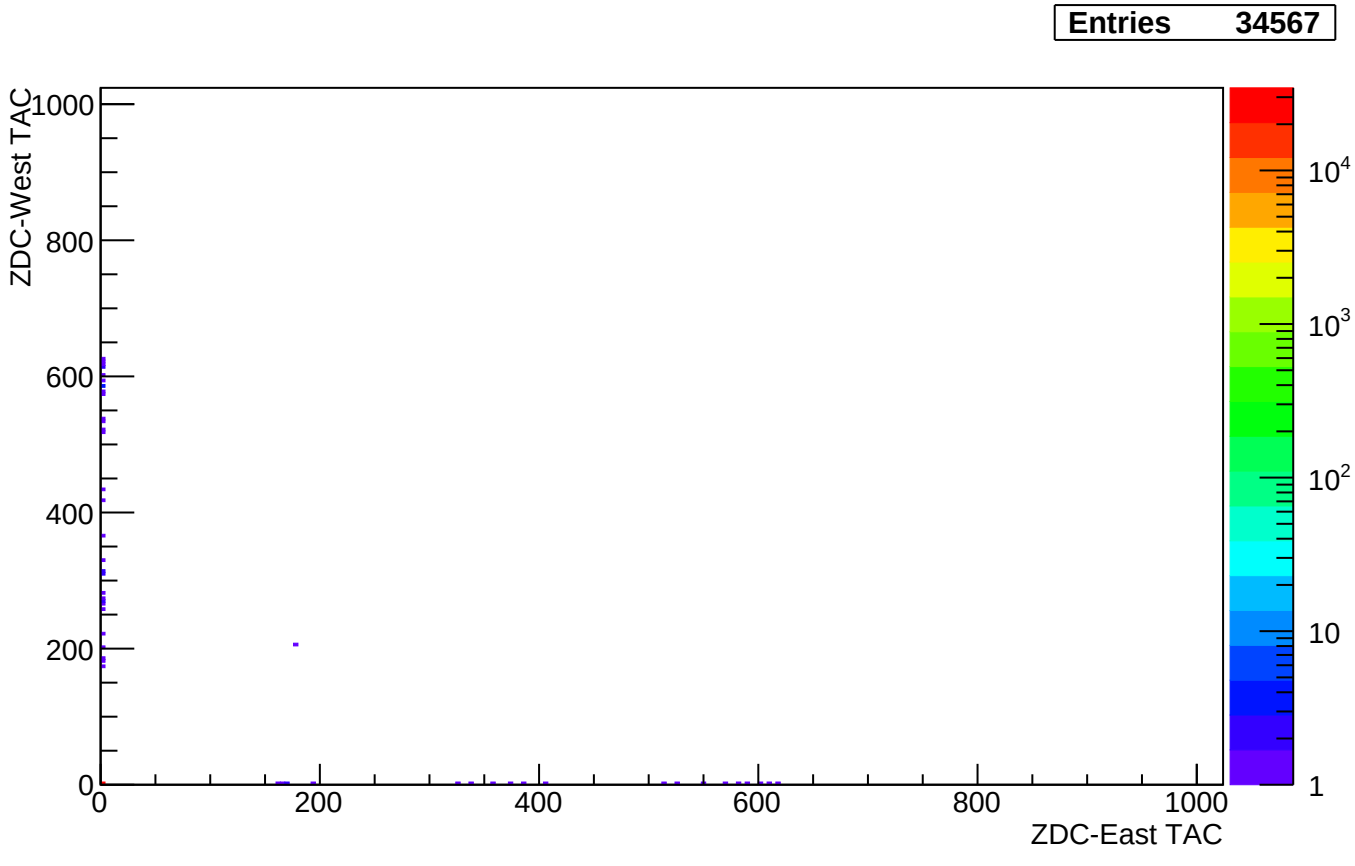

Entries 34567
TOF-Mult
VPD-East ADC Sum

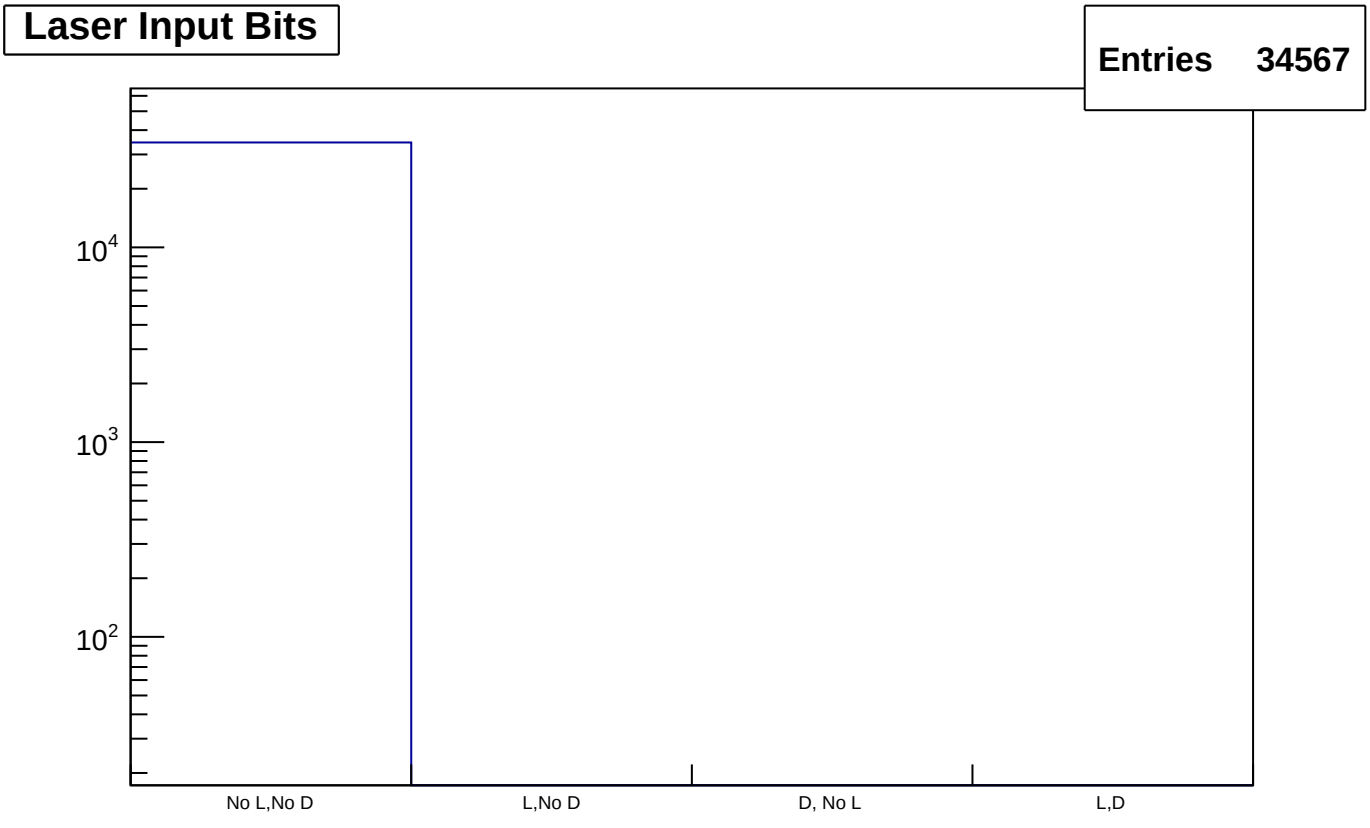

Entries 34567
TOF-Mult
VPD-West ADC Sum

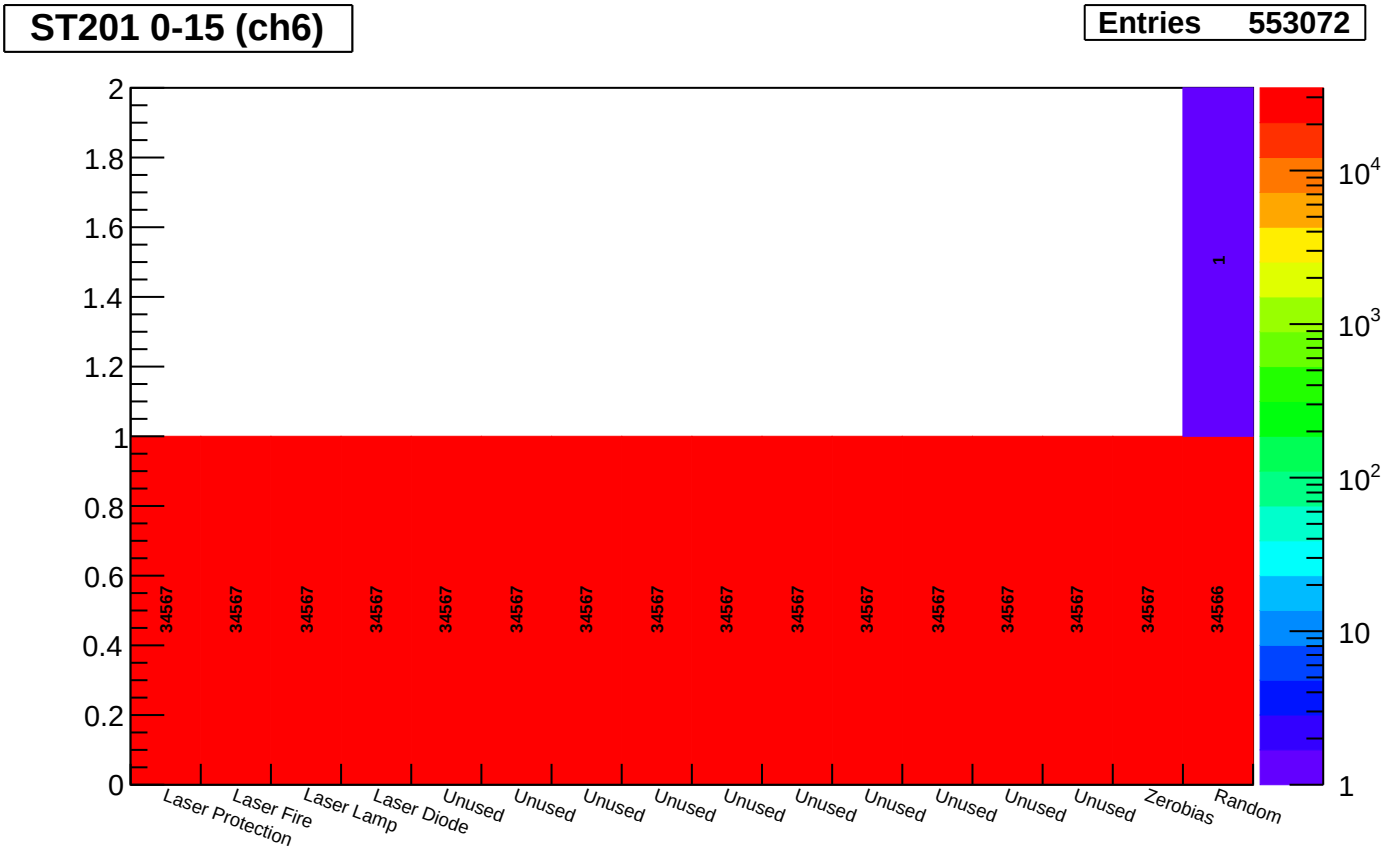

Entries 34567
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

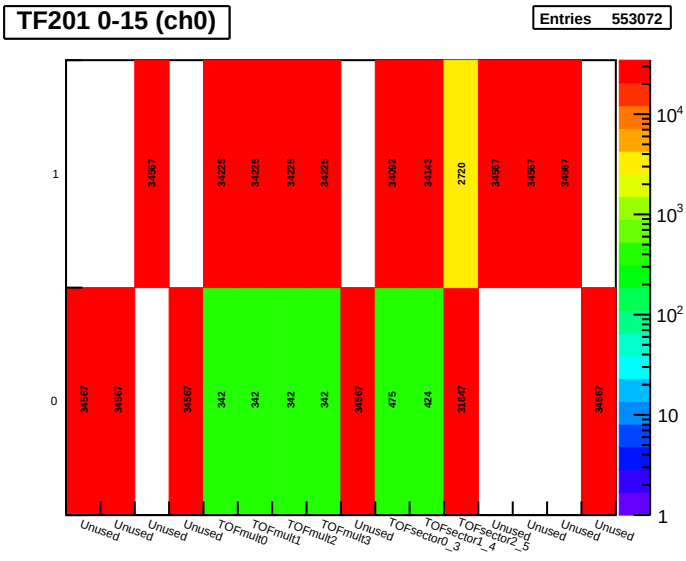

Entries 34567
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

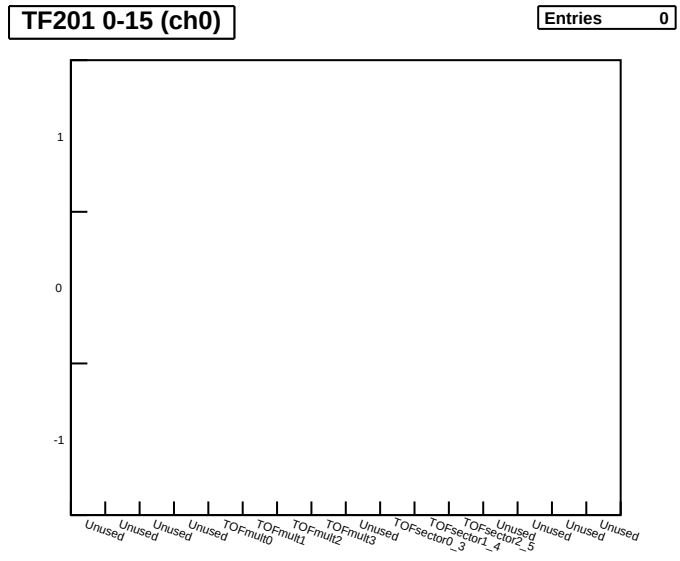

Entries 34567
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

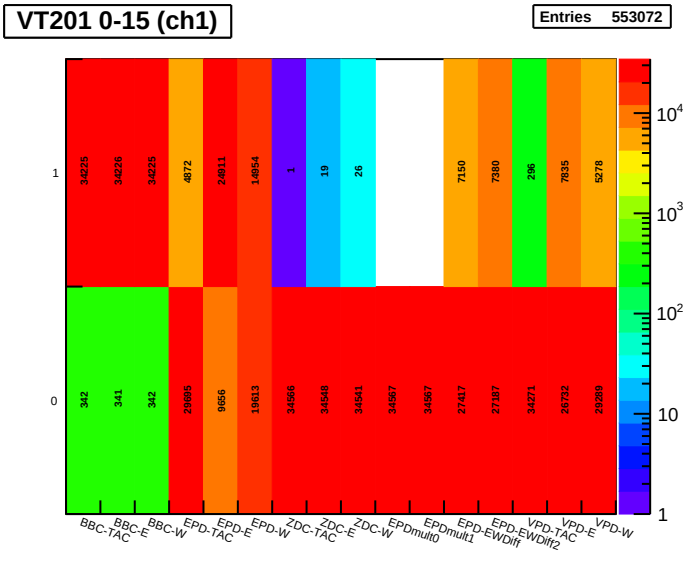

Entries 34567
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^4
10^3
10^2
10
1

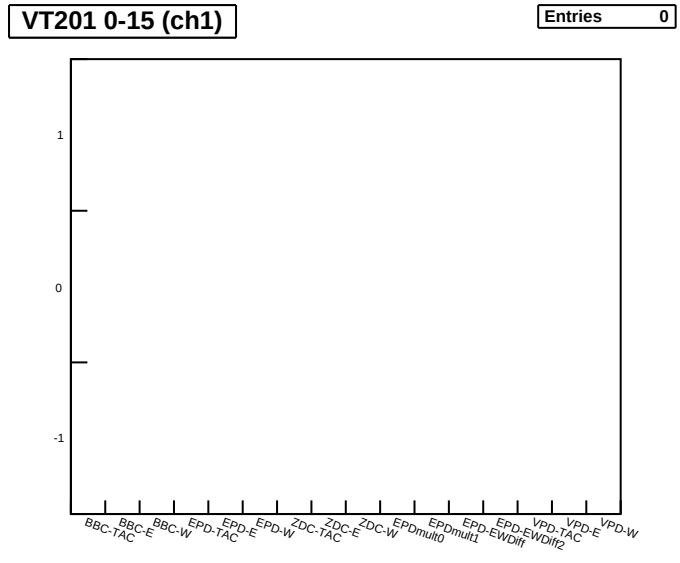

Laser Input Bits
Entries 34567
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

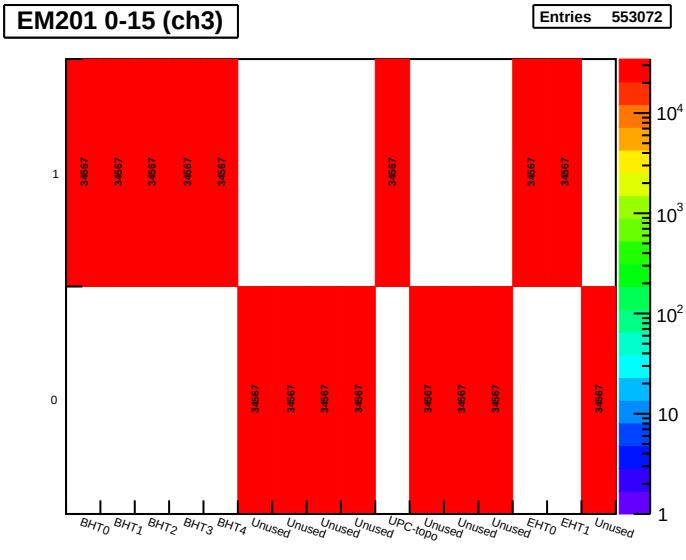

ST201 0-15 (ch6)
Entries 553072
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
34567
34567
34567
34567
34567
34567
34567
34567
34567
34567
34567
34567
34567
34567
34567
34566
1
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random

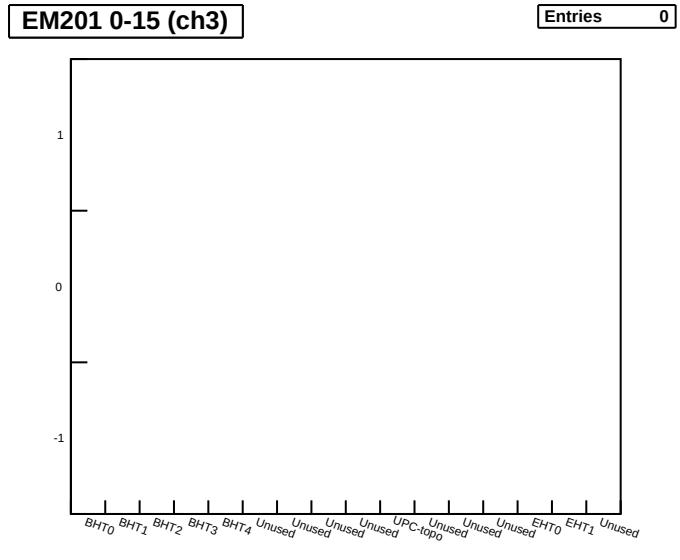

TF201 0-15 (ch0)
Entries 553072
1
0
34567 34567 34567 342 342 342 342 34567 475 424 31847 34567
34567 34225 34225 34225 34225 34092 34143 2720 34567 34567 34567
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^4
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


VT201 0-15 (ch1)
Entries 553072
1
0
34225 34226 34225 4872 24911 14954 1 19 26 7150 7380 296 7835 5278
342 341 342 29695 9656 19613 34566 34548 34541 34567 34567 27417 27187 34271 26732 29289
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 553072
1
0
34567 34567 34567 34567 34567 34567 34567 34567 34567 34567 34567 34567 34567 34567
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