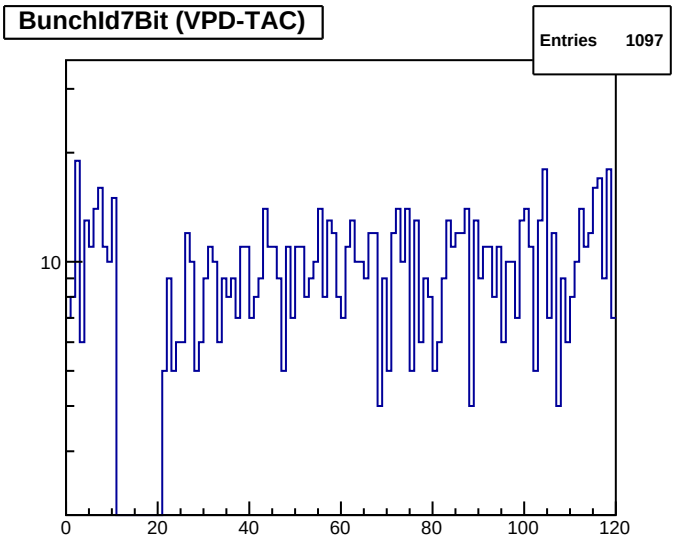
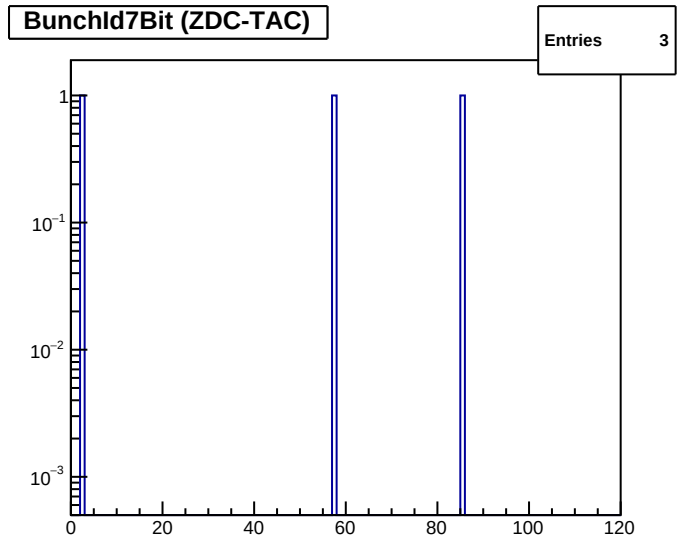
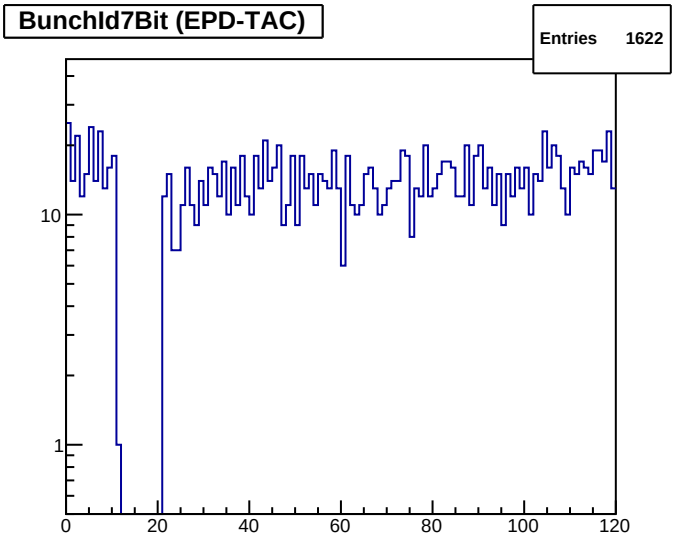
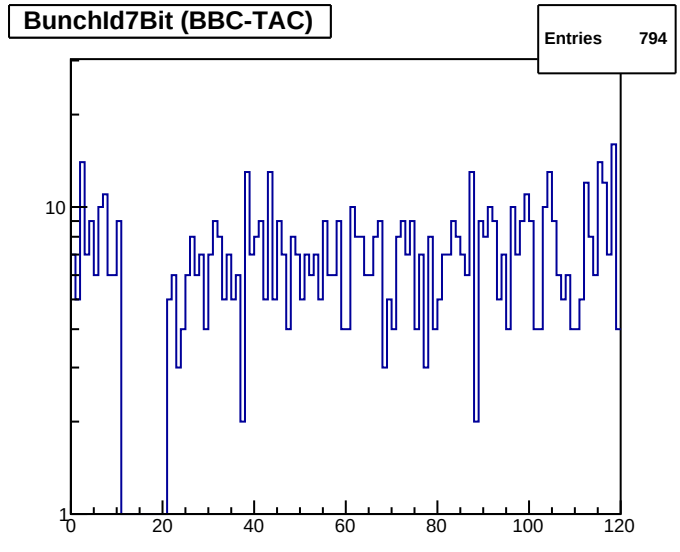
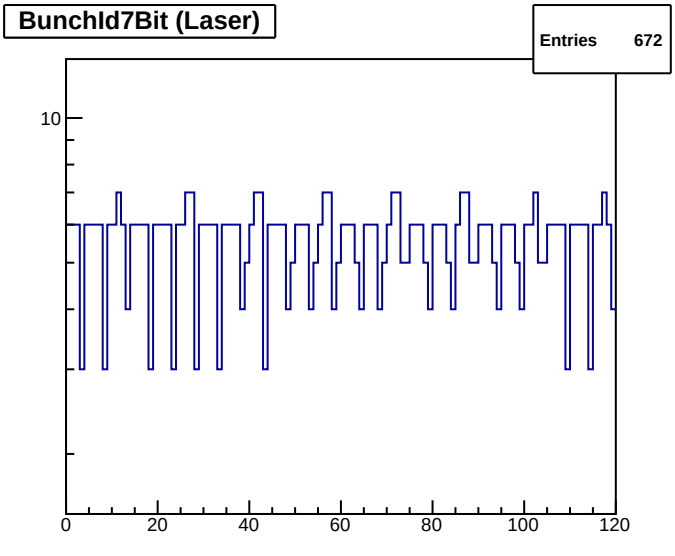
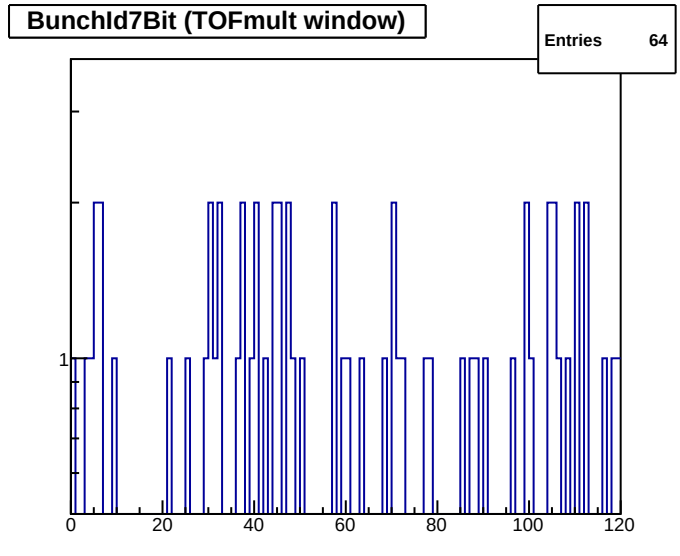

BunchId7Bit (VPD-TAC)
Entries 1097
10
0 20 40 60 80 100 120

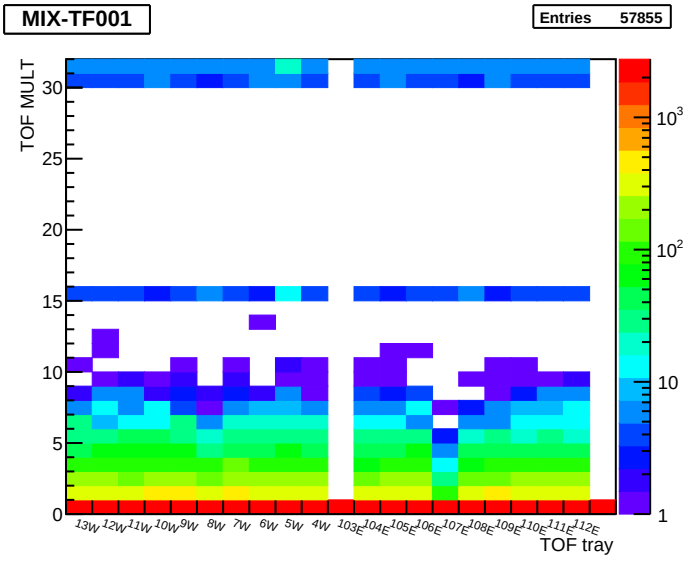

BunchId7Bit (ZDC-TAC)
Entries 3
1
10^{-1}
10^{-2}
10^{-3}
0 20 40 60 80 100 120

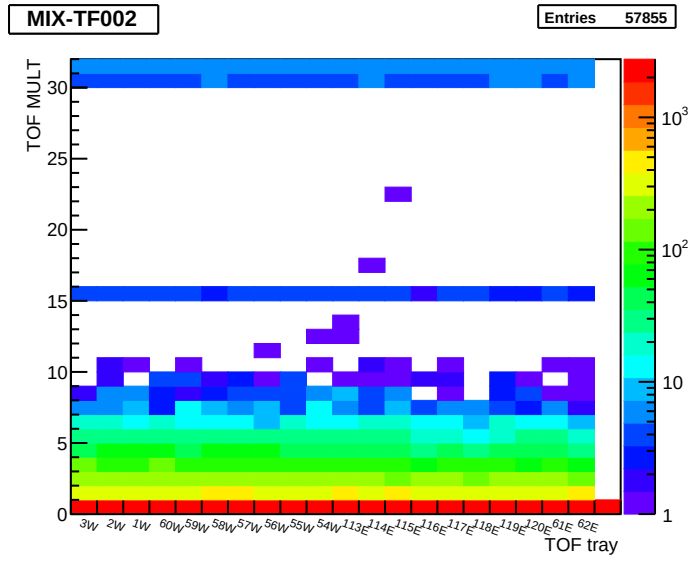

BunchId7Bit (EPD-TAC)
Entries 1622
10
1
0 20 40 60 80 100 120

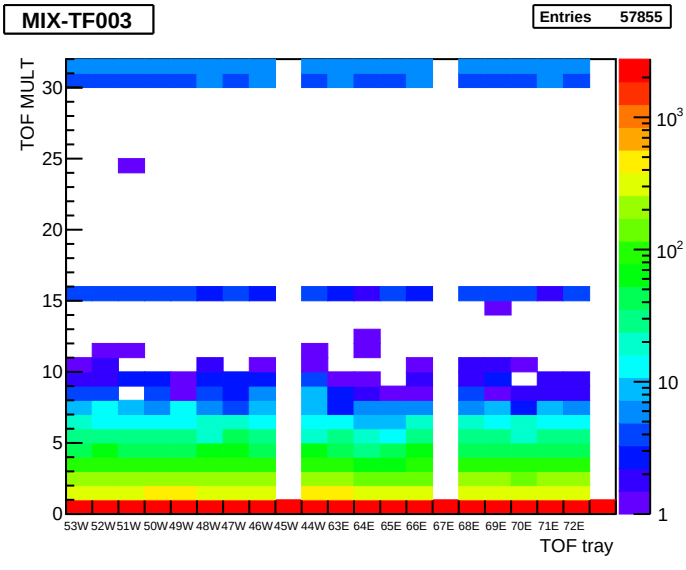

BunchId7Bit (BBC-TAC)
Entries 794
10
1
0 20 40 60 80 100 120

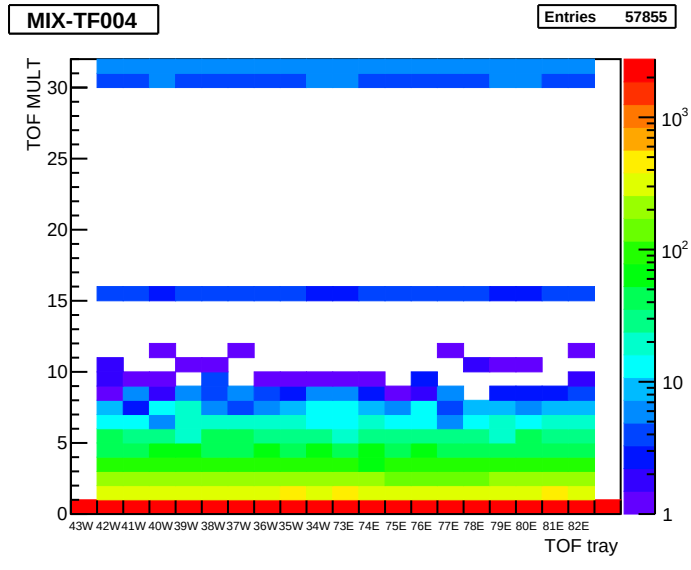

BunchId7Bit (Laser)
Entries 672
10
0 20 40 60 80 100 120

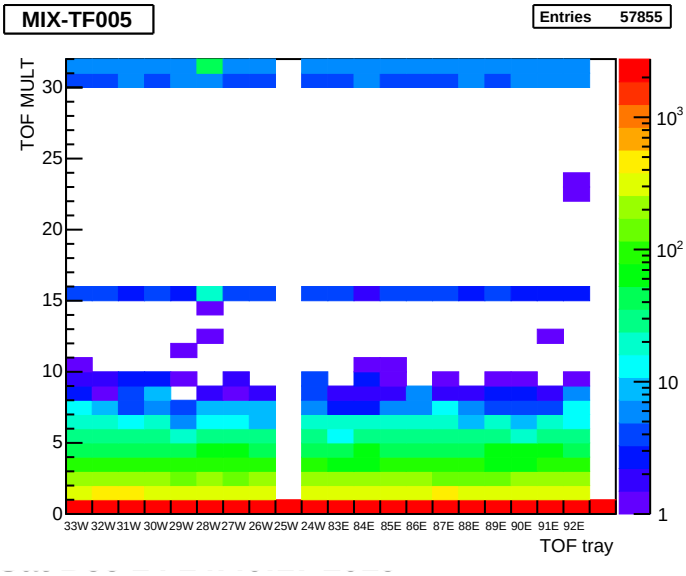

BunchId7Bit (TOFmult window)
Entries 64
1
0 20 40 60 80 100 120

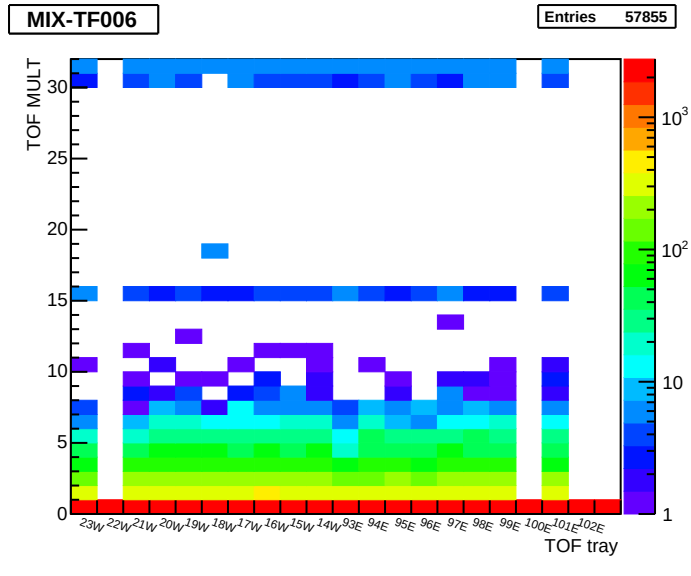

MIX-TF001
Entries 57855
TOF MULT
TOF tray

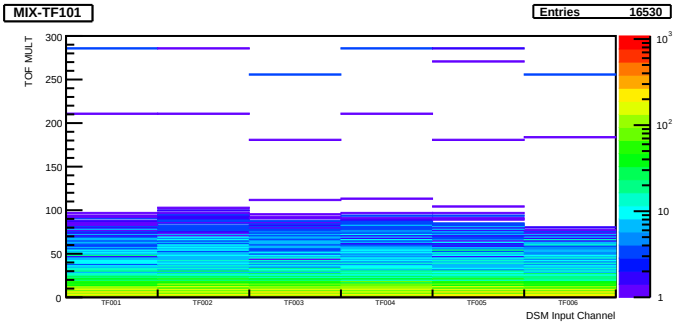

MIX-TF002
Entries 57855
TOF MULT
TOF tray

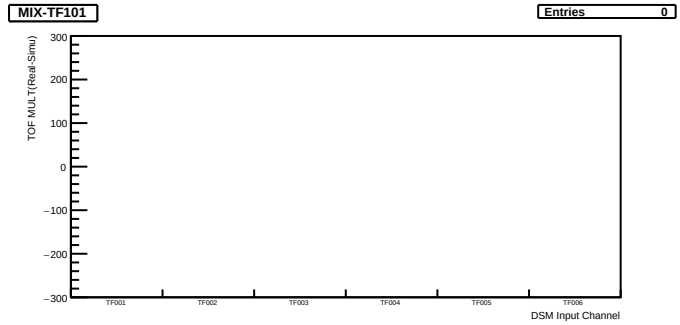

MIX-TF003
Entries 57855
TOF MULT
TOF tray

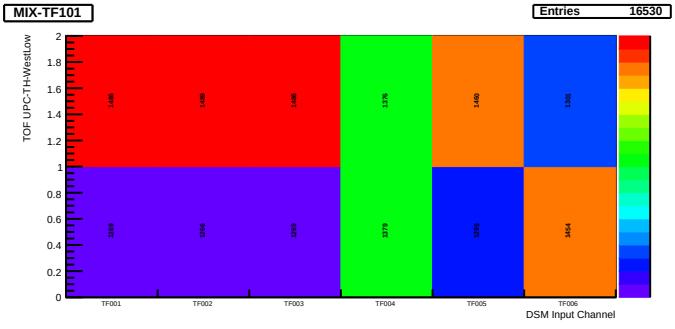

MIX-TF004
Entries 57855
TOF MULT
TOF tray

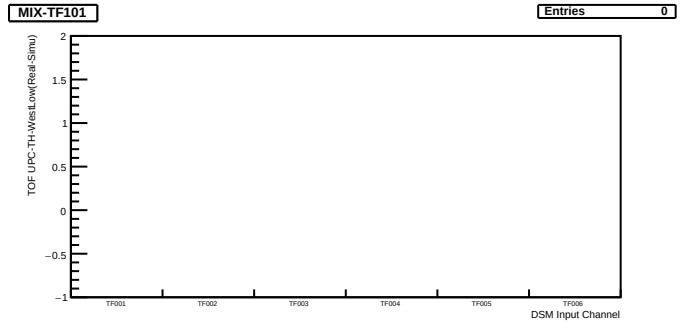

MIX-TF005
Entries 57855
TOF MULT
TOF tray

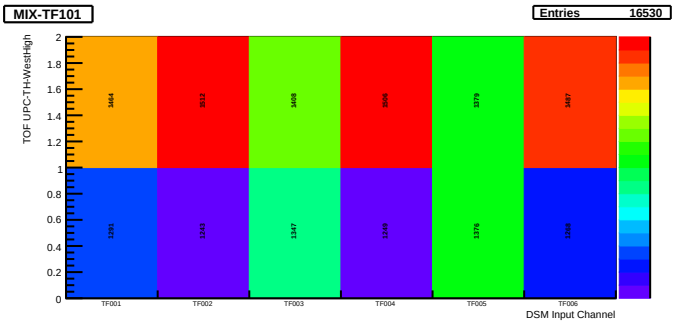

MIX-TF006
Entries 57855
TOF MULT
TOF tray

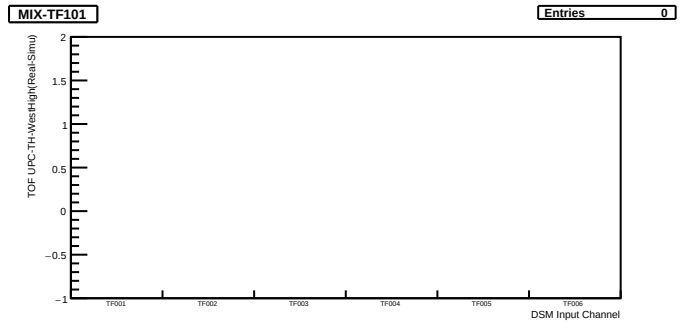

MIX-TF101
Entries 16530
TOF MULT
DSM Input Channel

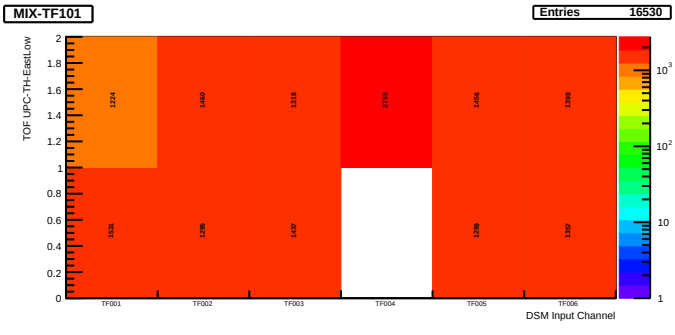

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel

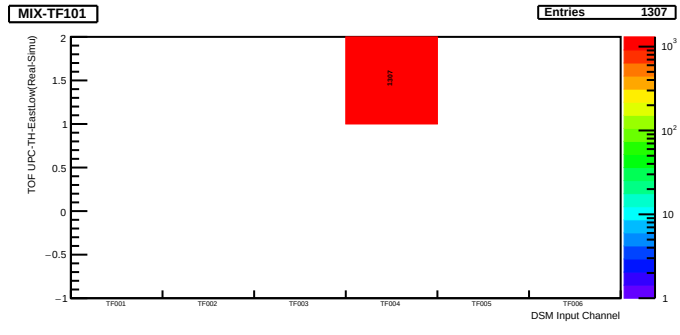

MIX-TF101
Entries 16530
TOF UPC-TH-WestLow
DSM Input Channel

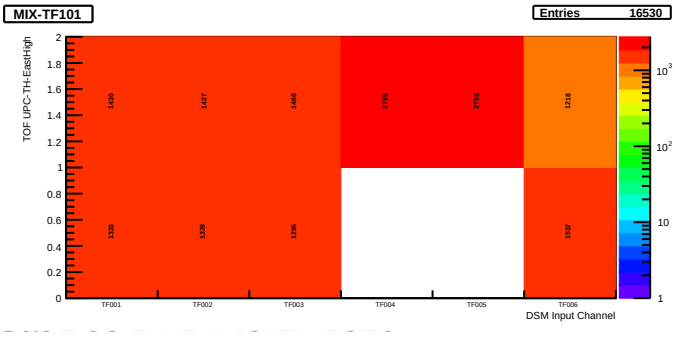

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel

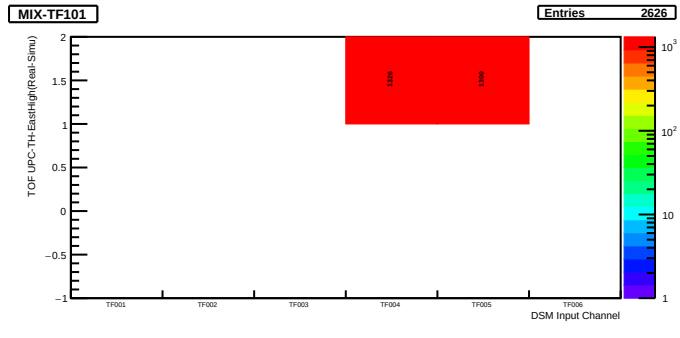

MIX-TF101
Entries 16530
TOF UPC-TH-WestHigh
DSM Input Channel

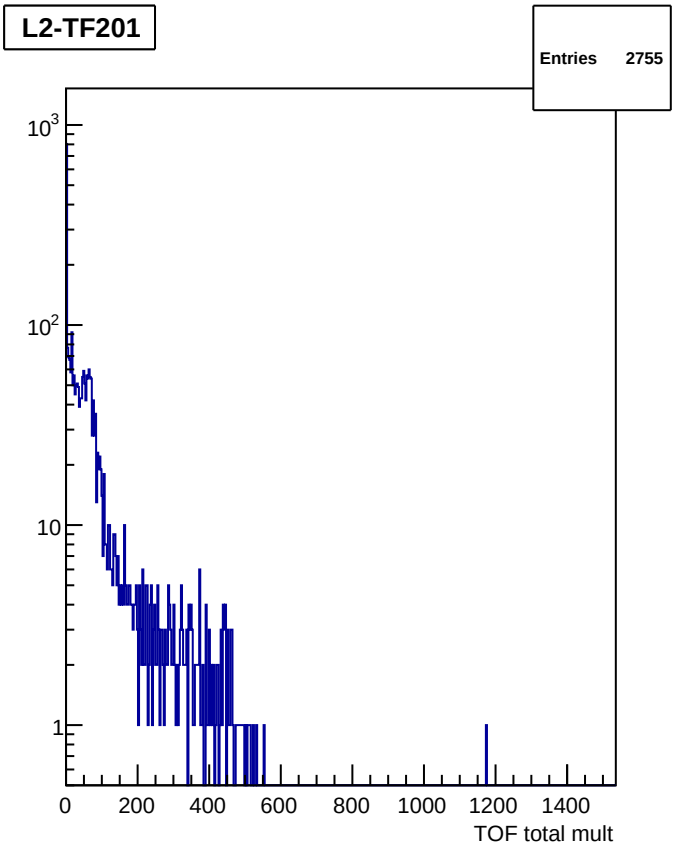

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel

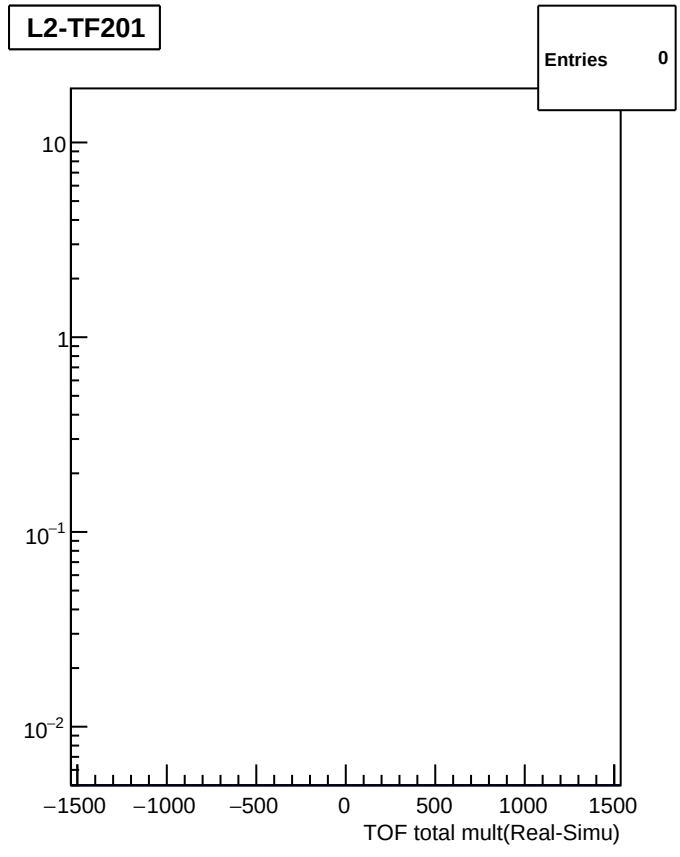

MIX-TF101
Entries 16530
TOF UPC-TH-EastLow
DSM Input Channel

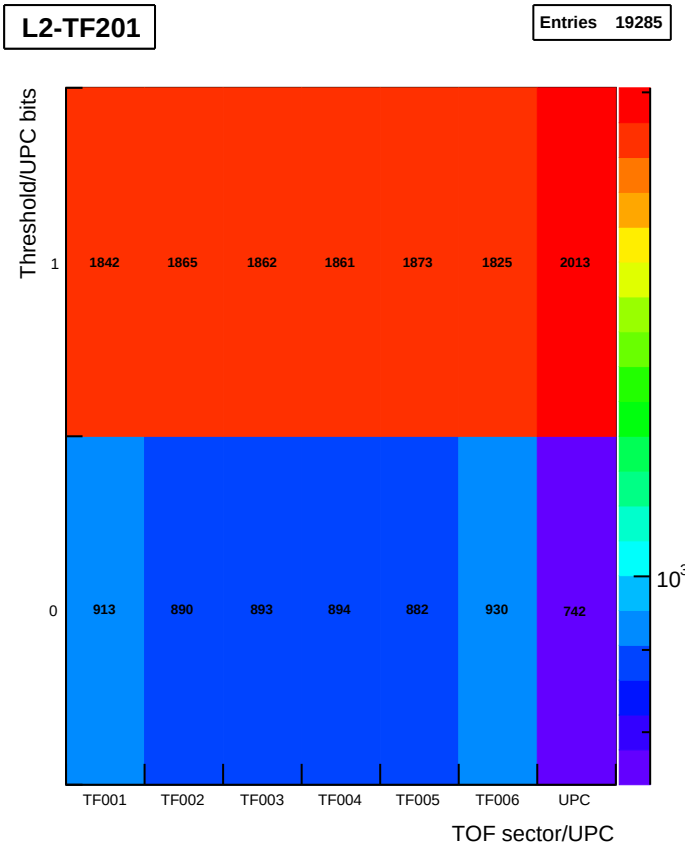

MIX-TF101
Entries 1307
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel

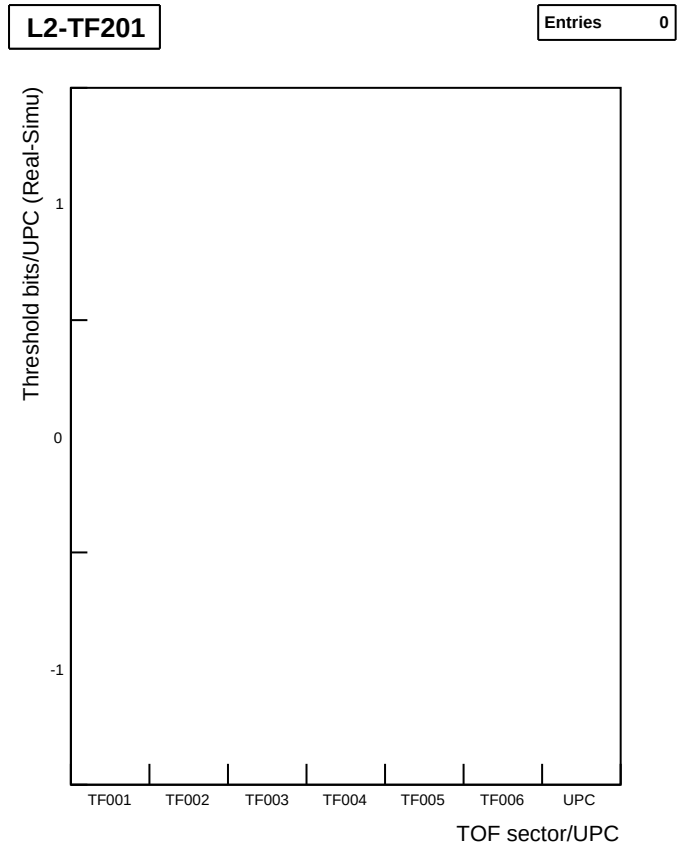

MIX-TF101
Entries 16530
TOF UPC-TH-EastHigh
DSM Input Channel

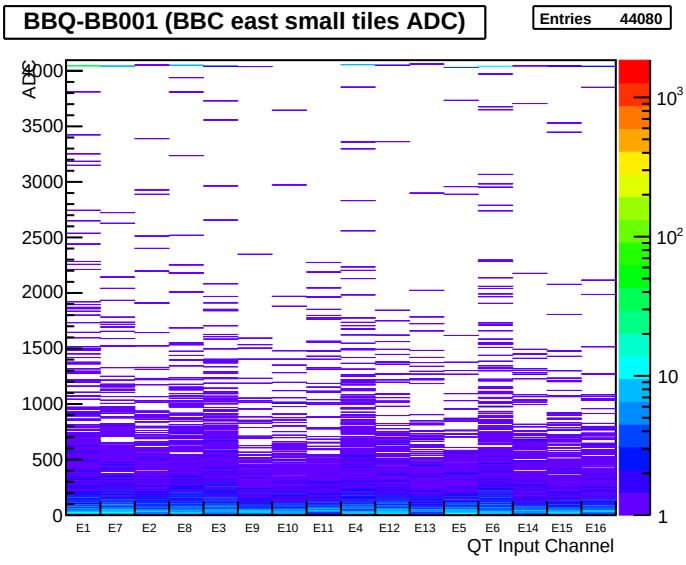

MIX-TF101
Entries 2626
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel

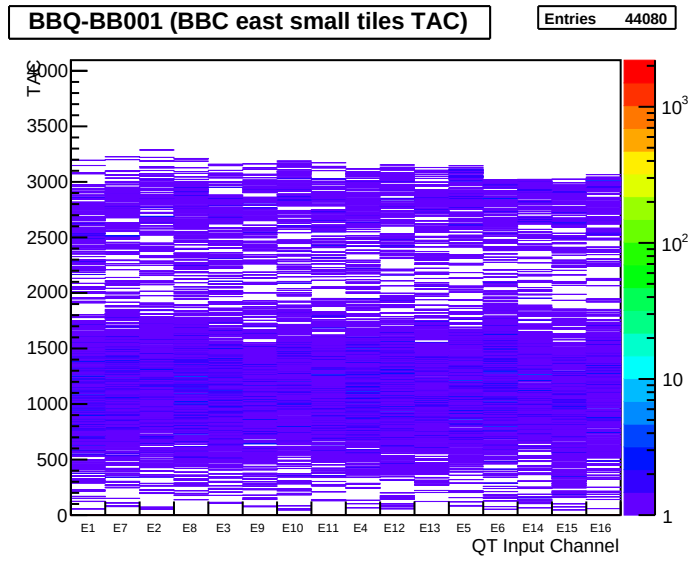

L2-TF201
Entries 2755
TOF total mult

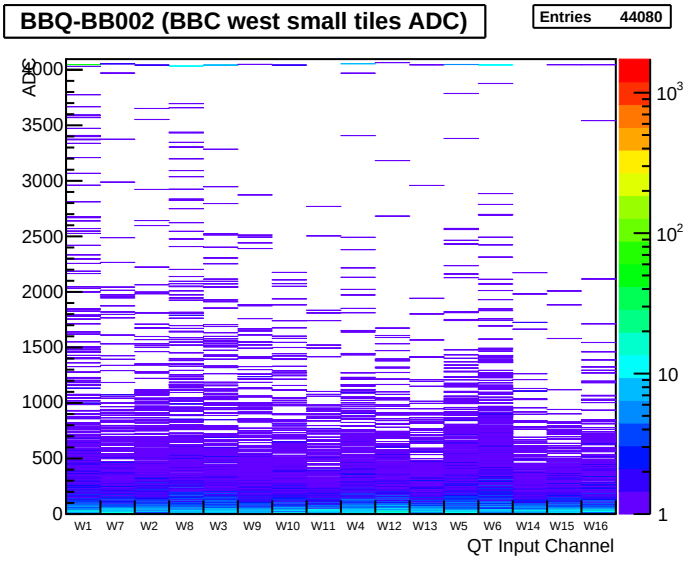

L2-TF201
Entries 0
TOF total mult(Real-Simu)

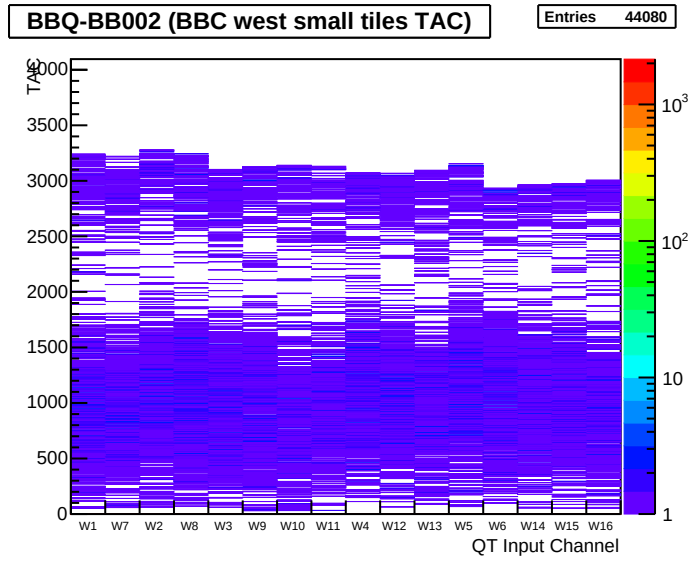

L2-TF201
Entries 19285
Threshold/UPC bits
1842
1865
1862
1861
1873
1825
2013
913
890
893
894
882
930
742
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

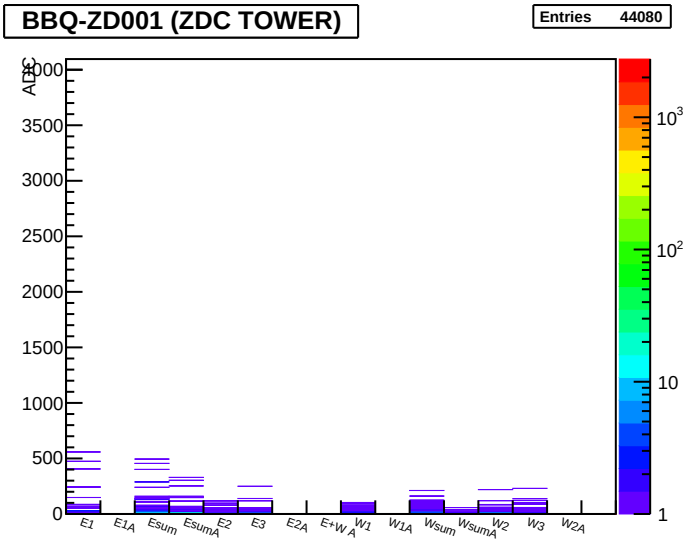

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

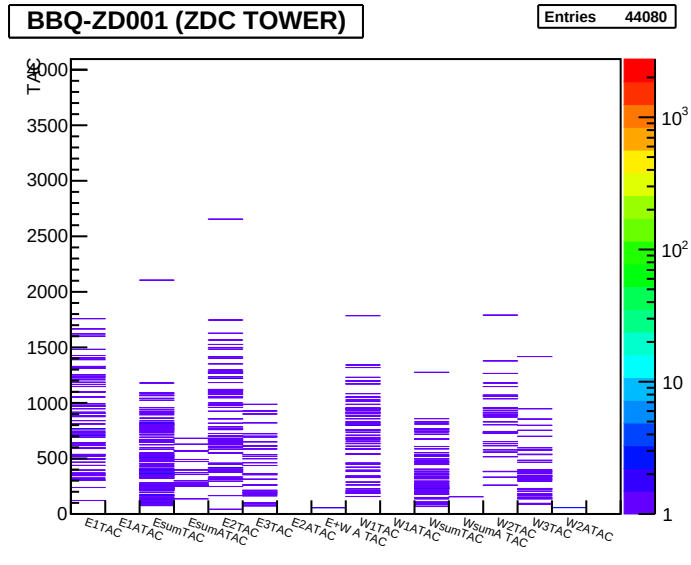

BBQ-BB001 (BBC east small tiles ADC)
Entries 44080
ADC
QT Input Channel

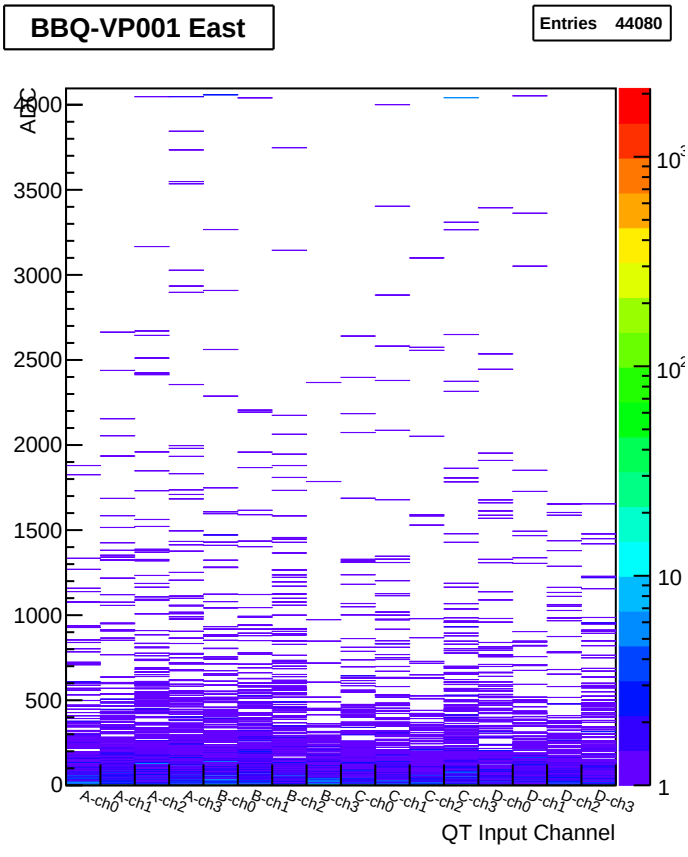

BBQ-BB001 (BBC east small tiles TAC)
Entries 44080
TAC
QT Input Channel

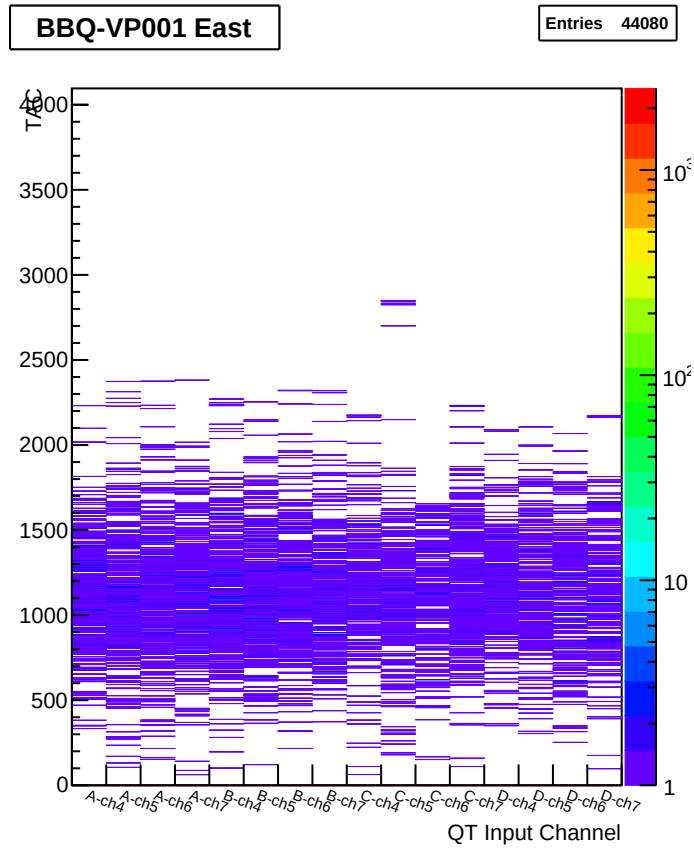

BBQ-BB002 (BBC west small tiles ADC)
Entries 44080
ADC
QT Input Channel

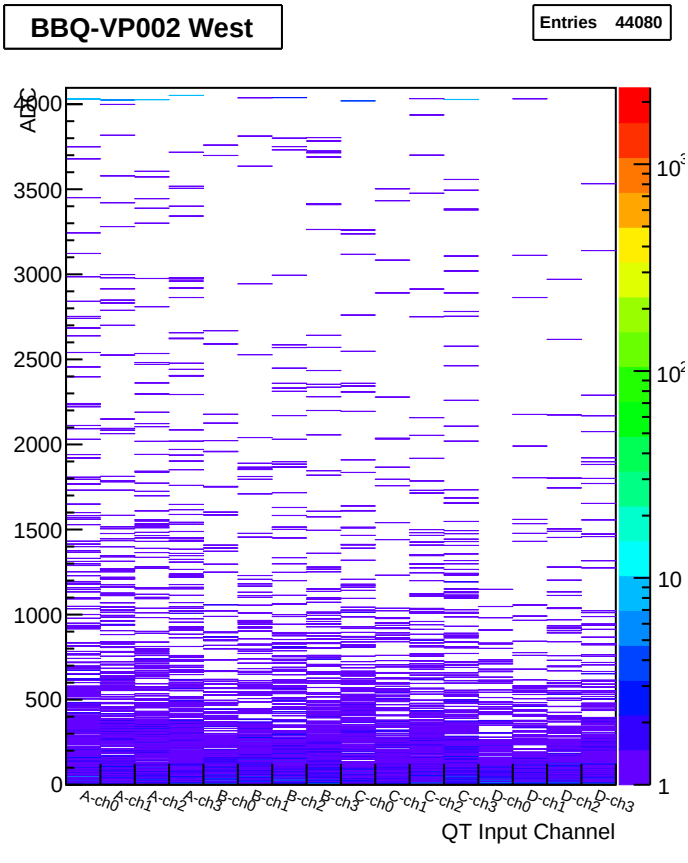

BBQ-BB002 (BBC west small tiles TAC)
Entries 44080
TAC
QT Input Channel

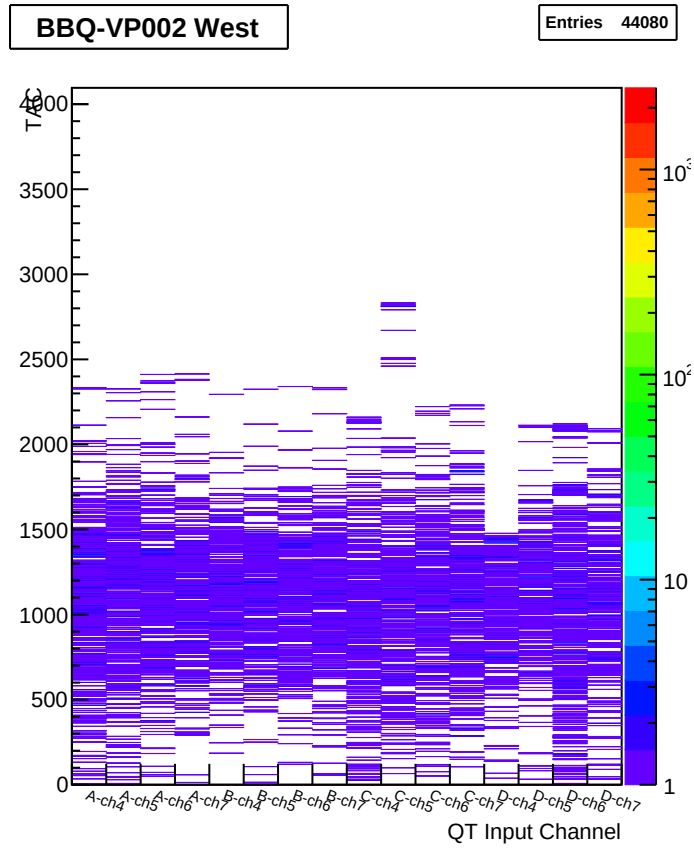

BBQ-ZD001 (ZDC TOWER)
Entries 44080
ADC

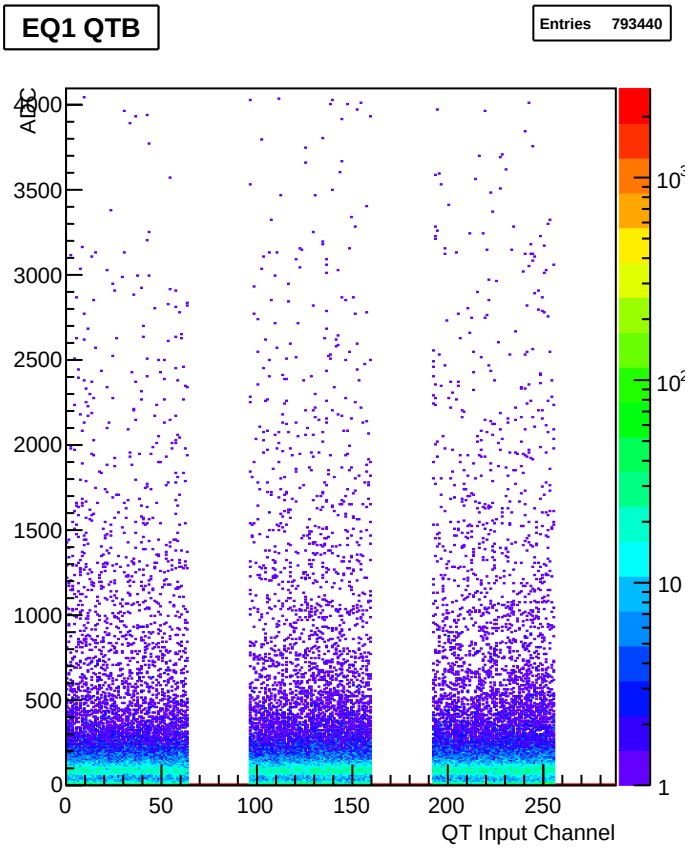

BBQ-ZD001 (ZDC TOWER)
Entries 44080
TAC

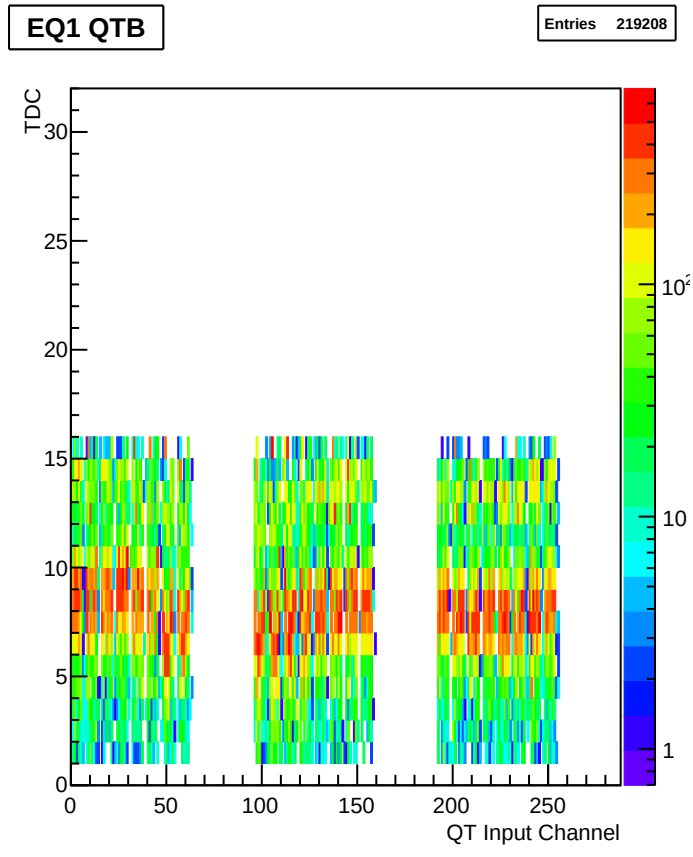

BBQ-VP001 East
Entries 44080
ADC
QT Input Channel

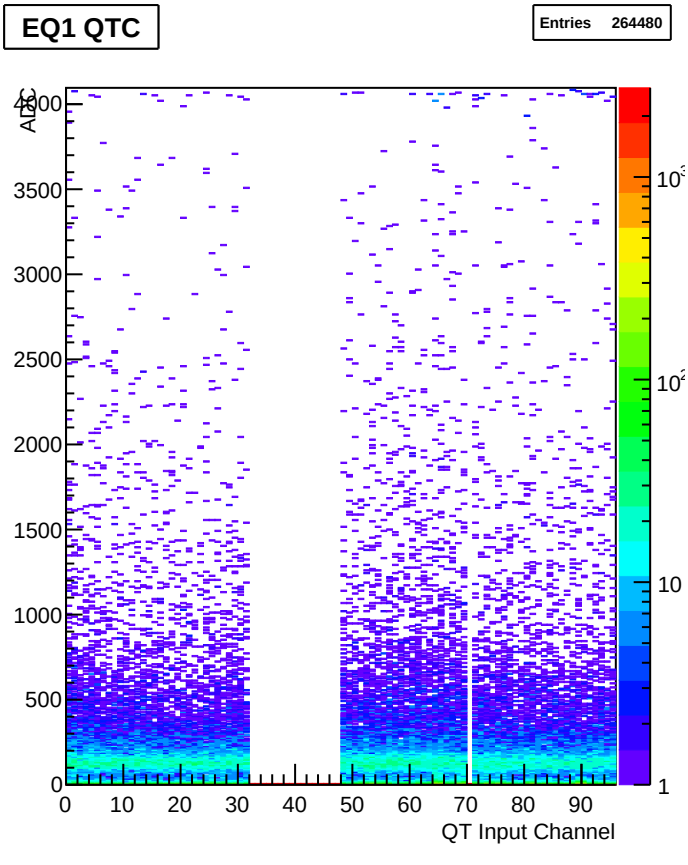

BBQ-VP001 East
Entries 44080
TADC
QT Input Channel

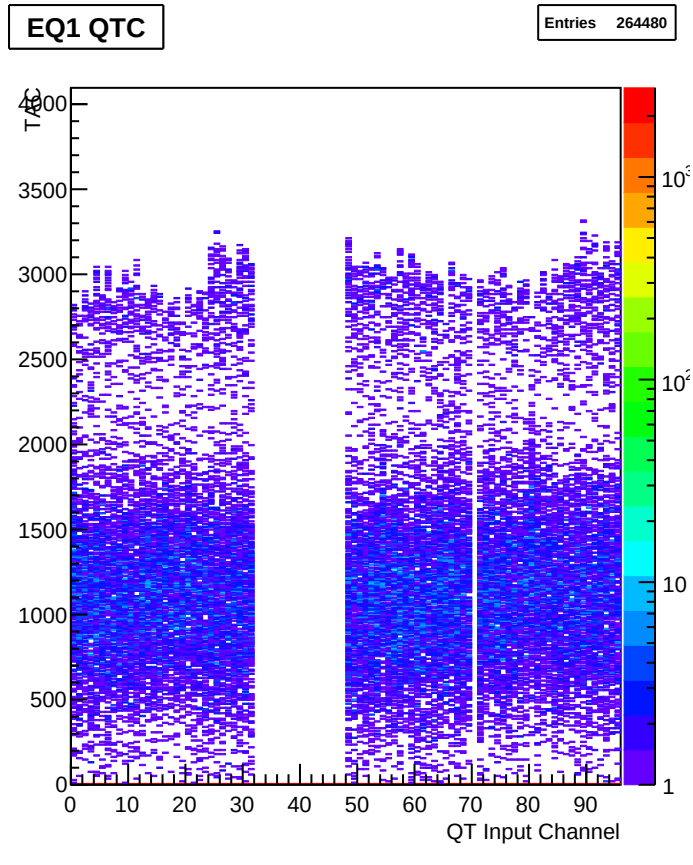

BBQ-VP002 West
Entries 44080
ADC
QT Input Channel

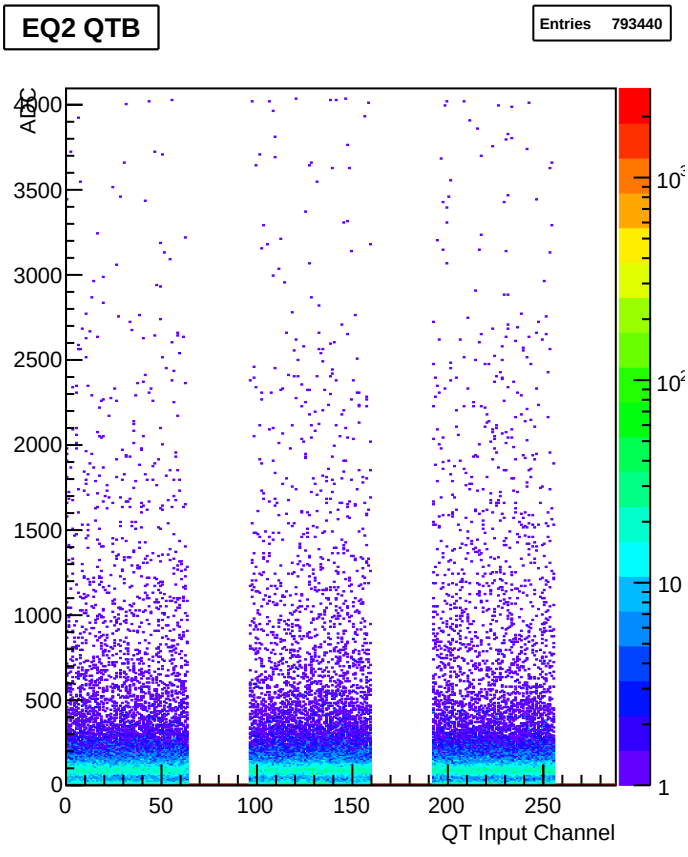

BBQ-VP002 West
Entries 44080
TADC
QT Input Channel

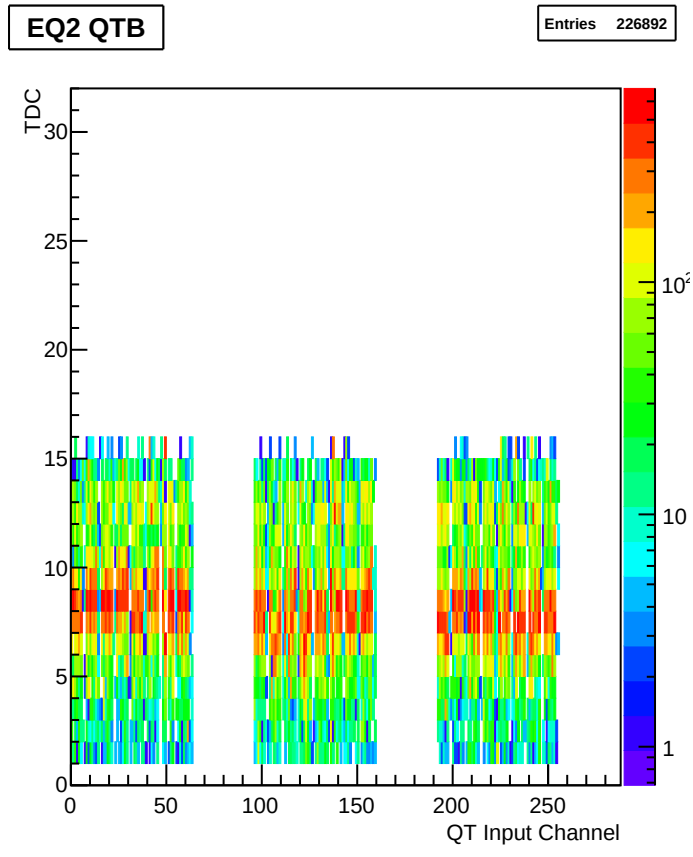

EQ1 QTB
Entries 793440
ADC
QT Input Channel

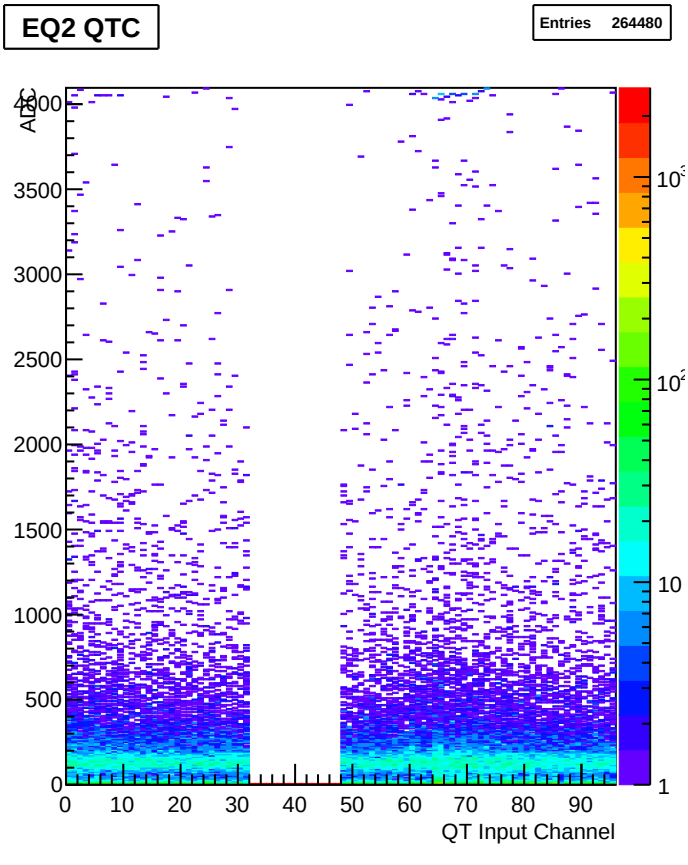

EQ1 QTB
Entries 219208
TDC
QT Input Channel

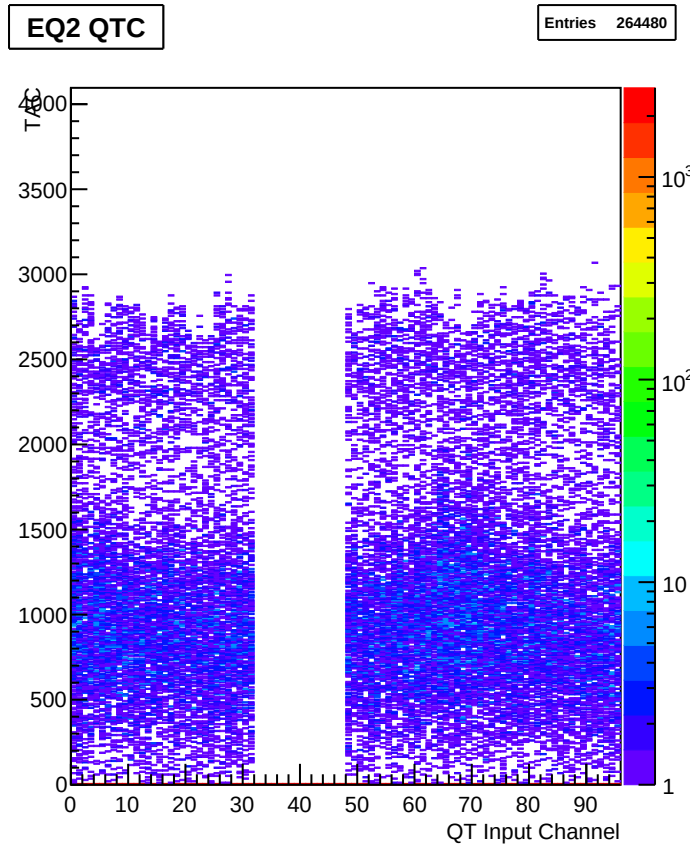

EQ1 QTC
Entries 264480
ADC
QT Input Channel

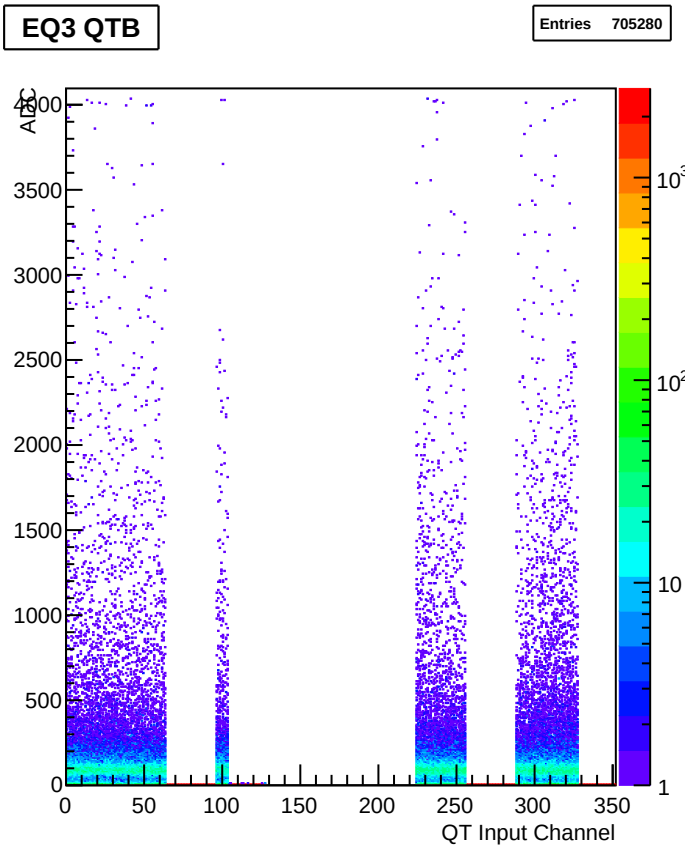

EQ1 QTC
Entries 264480
TADC
QT Input Channel

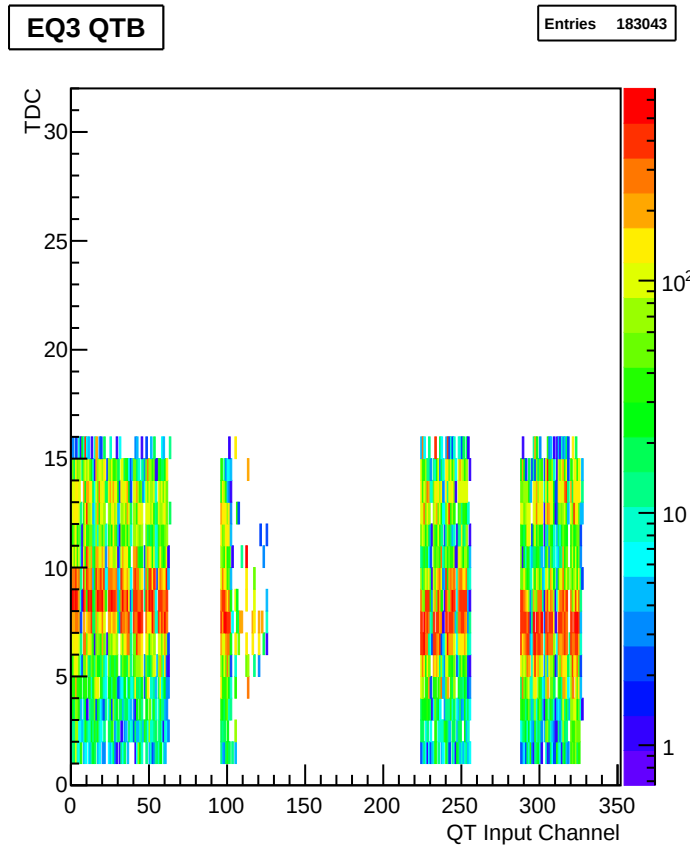

EQ2 QTB
Entries 793440
ADC
QT Input Channel

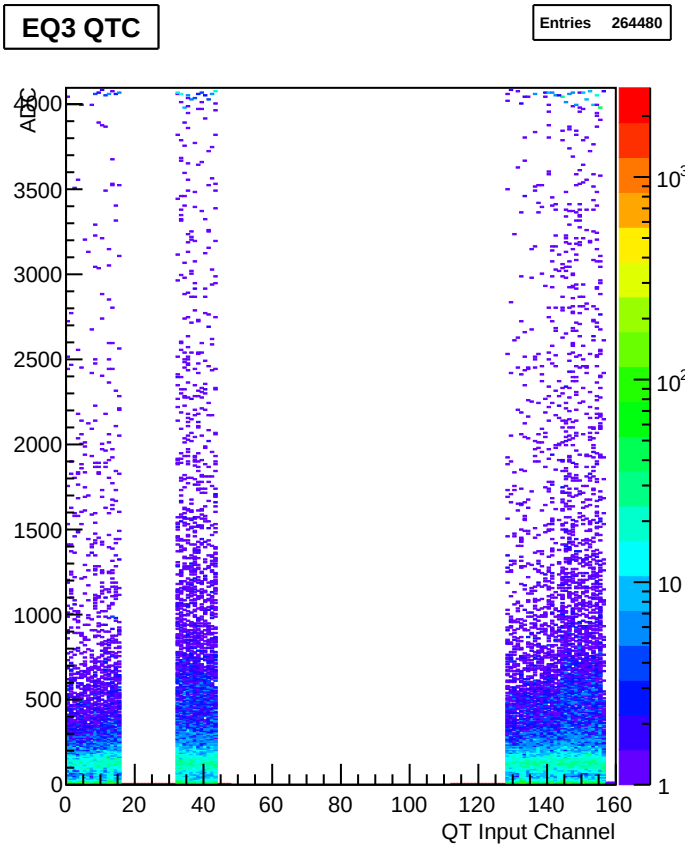

EQ2 QTB
Entries 226892
TDC
QT Input Channel

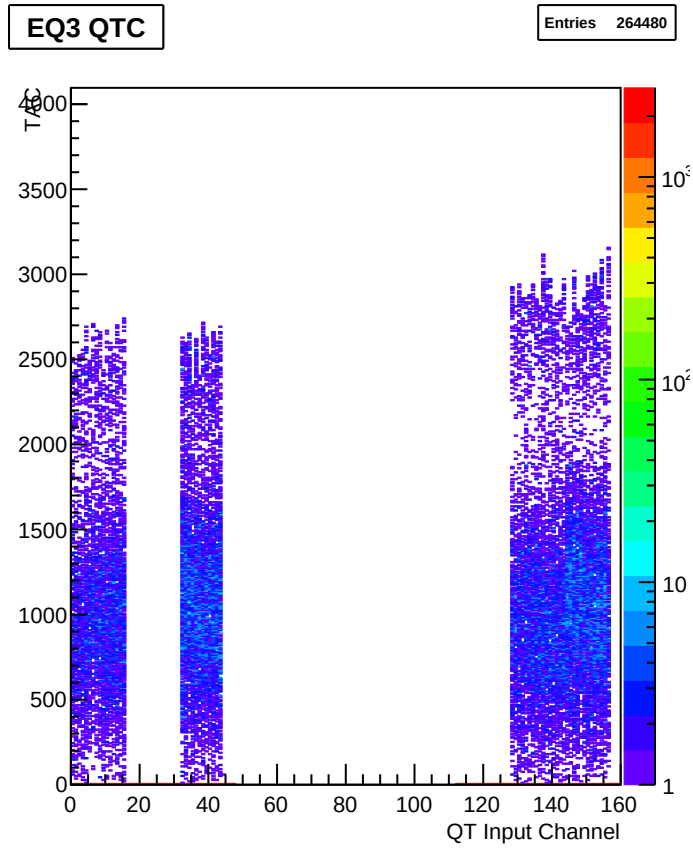

EQ2 QTC
Entries 264480
ADC
QT Input Channel

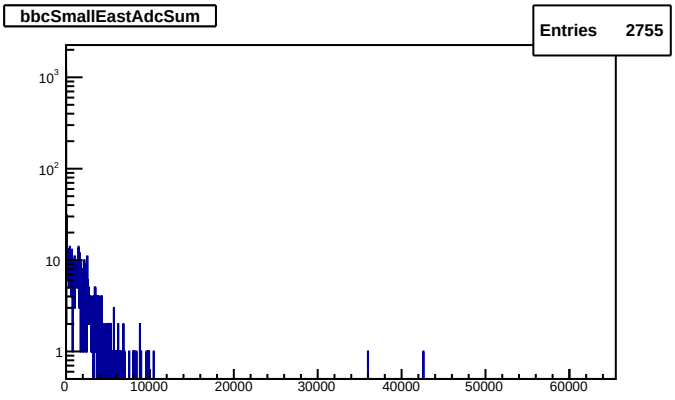

EQ2 QTC
Entries 264480
TADC
QT Input Channel

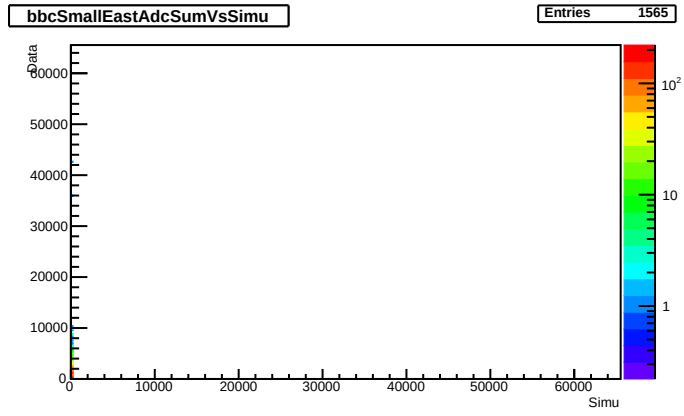

EQ3 QTB
Entries 705280
ADC
QT Input Channel

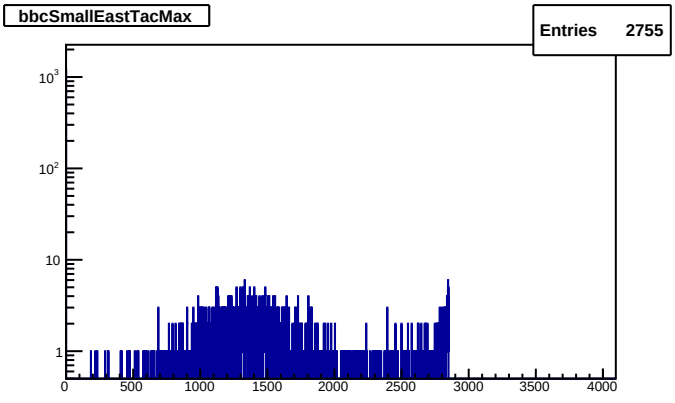

EQ3 QTB
Entries 183043
TDC
QT Input Channel

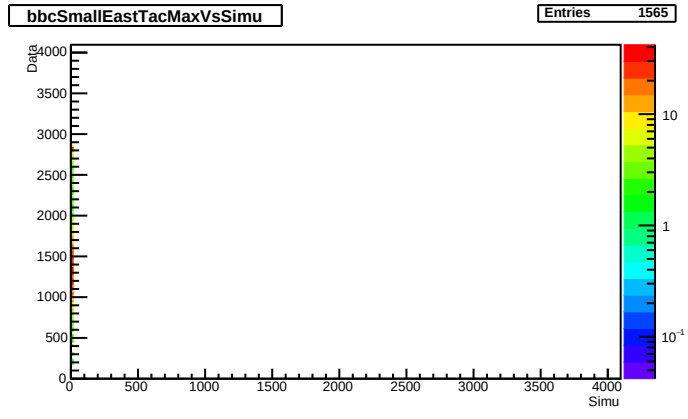

EQ3 QTC
Entries 264480
ADC
QT Input Channel

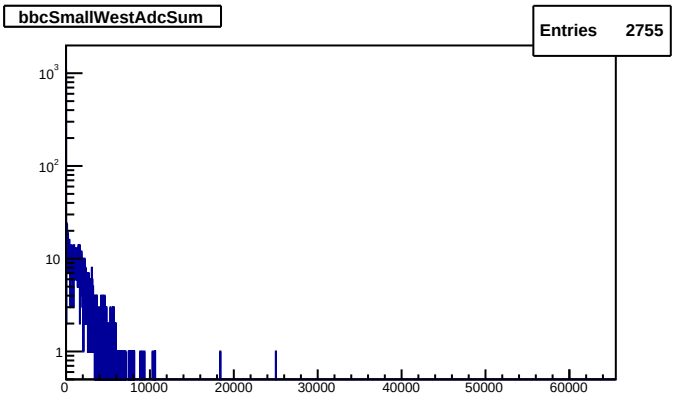

EQ3 QTC
Entries 264480
TADC
QT Input Channel

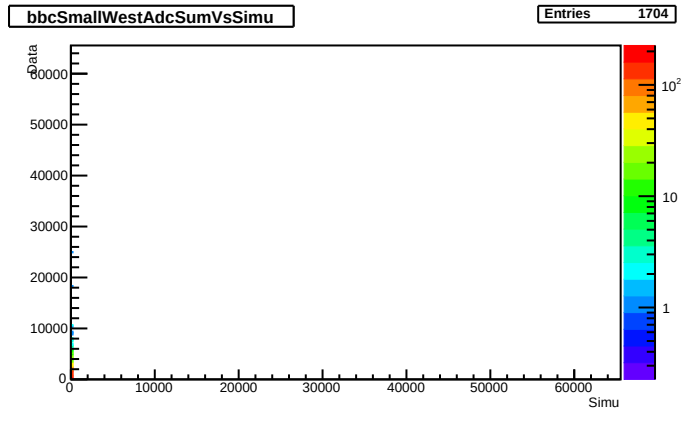

bbcSmallEastAdcSum
Entries 2755

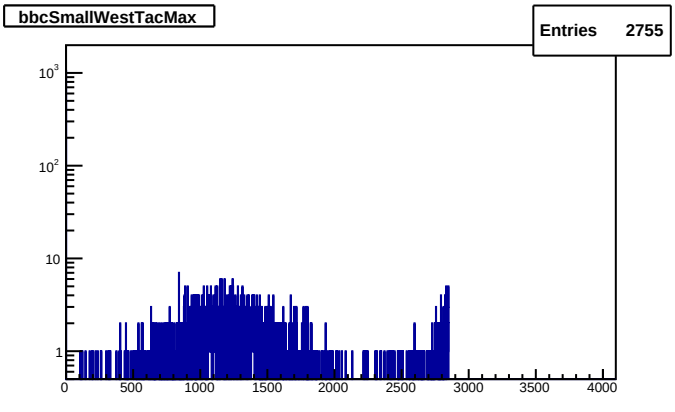

bbcSmallEastAdcSumVsSimu
Entries 1565
Data
Simu

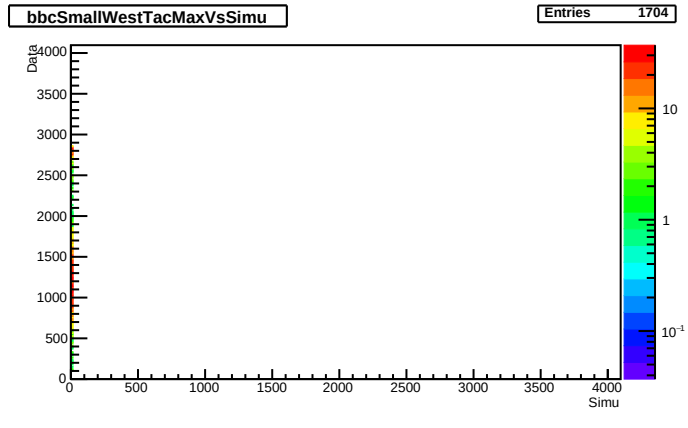

bbcSmallEastTacMax
Entries 2755

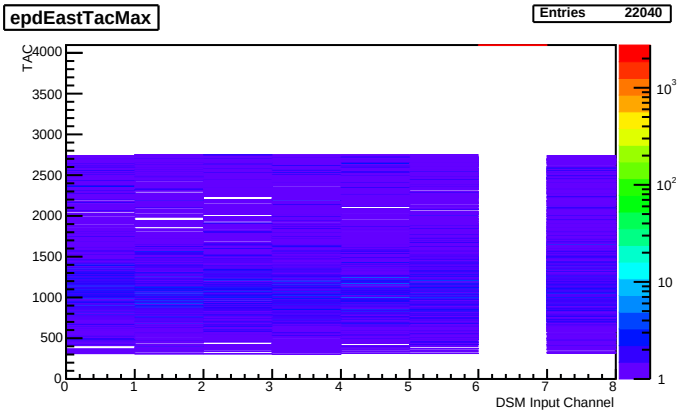

bbcSmallEastTacMaxVsSimu
Entries 1565
Data
Simu

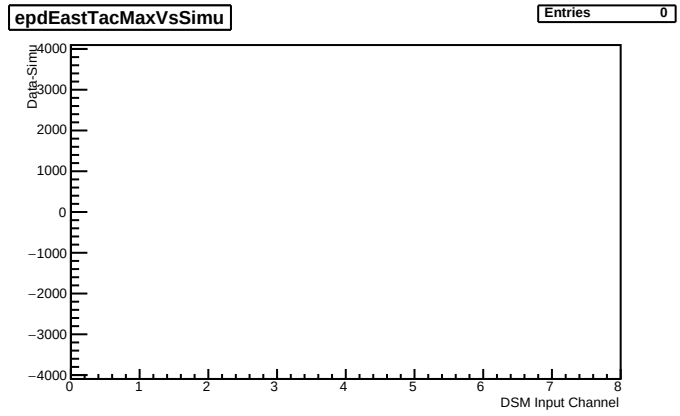

bbcSmallWestAdcSum
Entries 2755

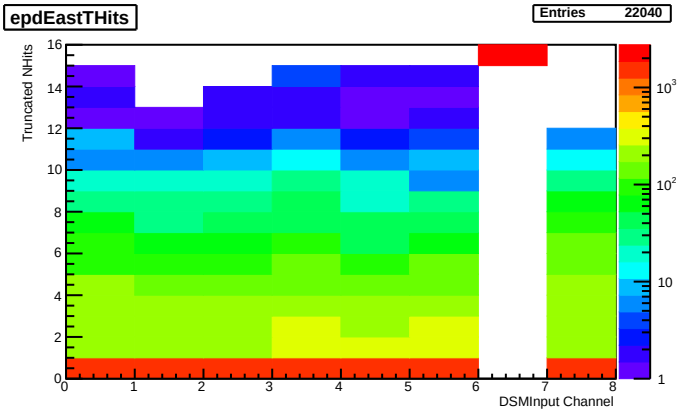

bbcSmallWestAdcSumVsSimu
Entries 1704
Data
Simu

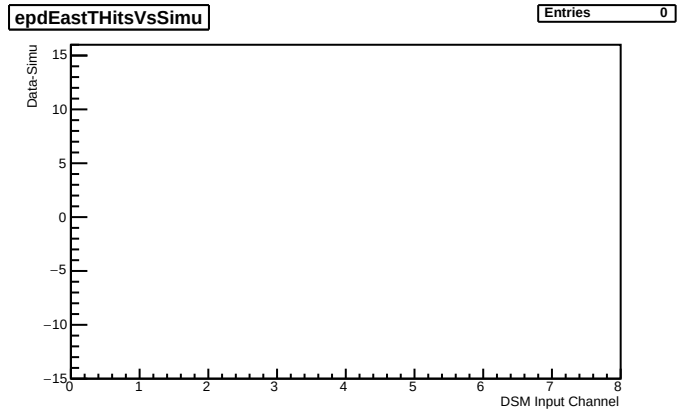

bbcSmallWestTacMax
Entries 2755

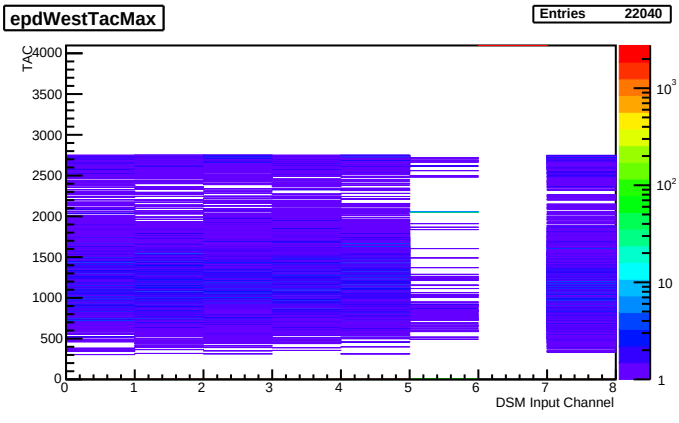

bbcSmallWestTacMaxVsSimu
Entries 1704
Data
Simu

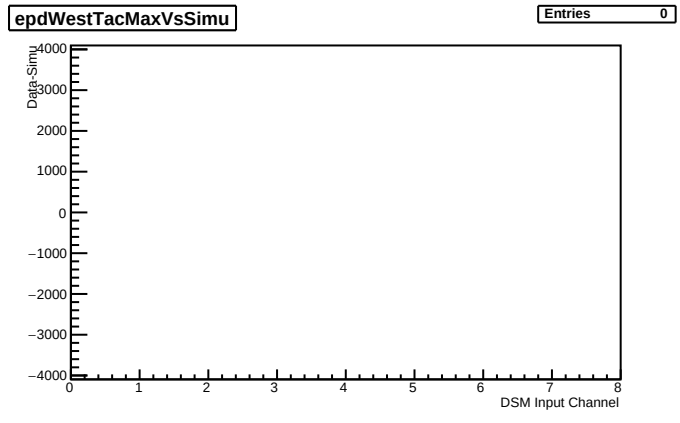

epdEastTacMax
Entries 22040
TAC
DSM Input Channel

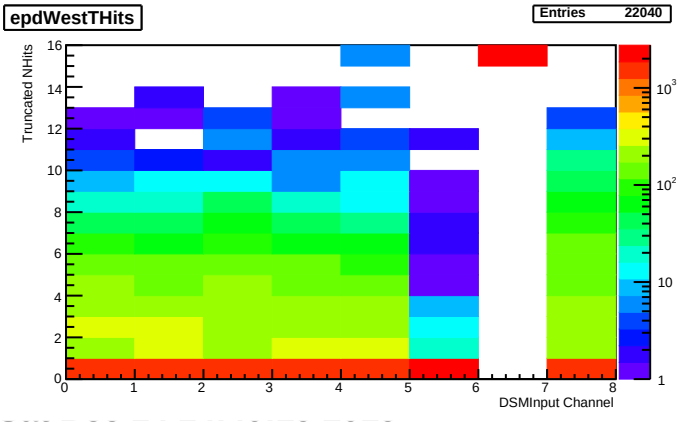

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

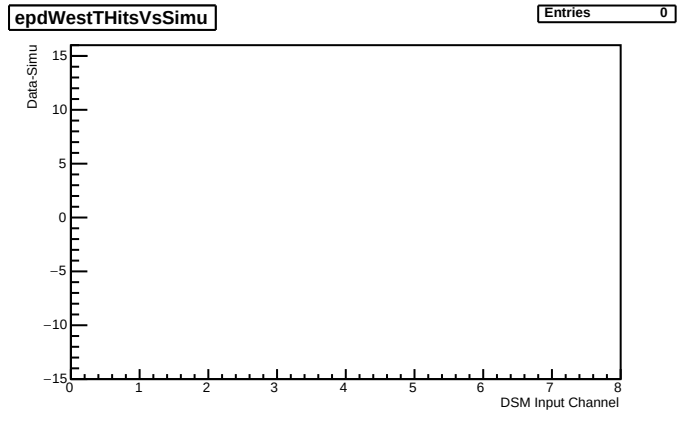

epdEastTHits
Entries 22040
Truncated NHits
DSMInput Channel

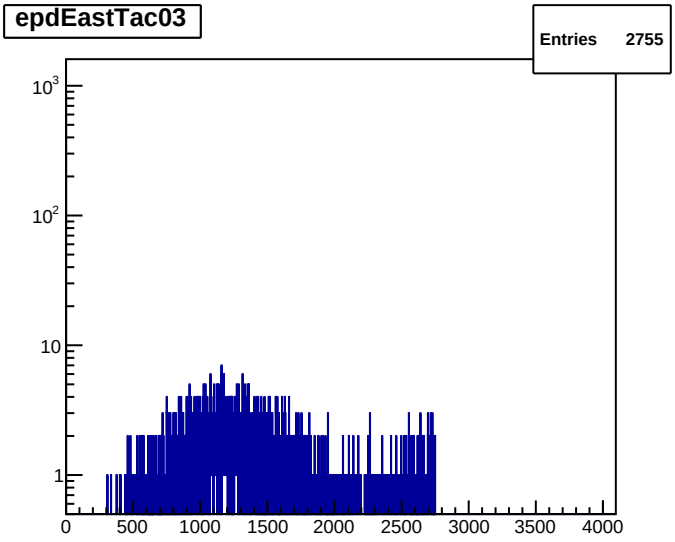

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

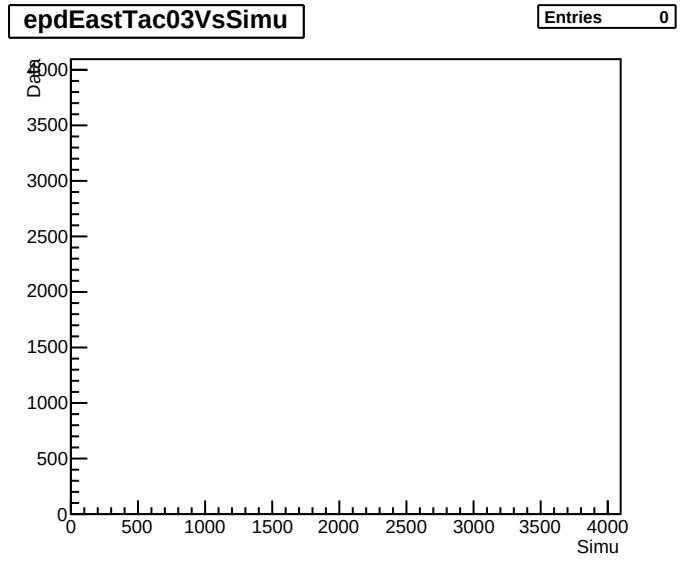

epdWestTacMax
Entries 22040
TAC
DSM Input Channel

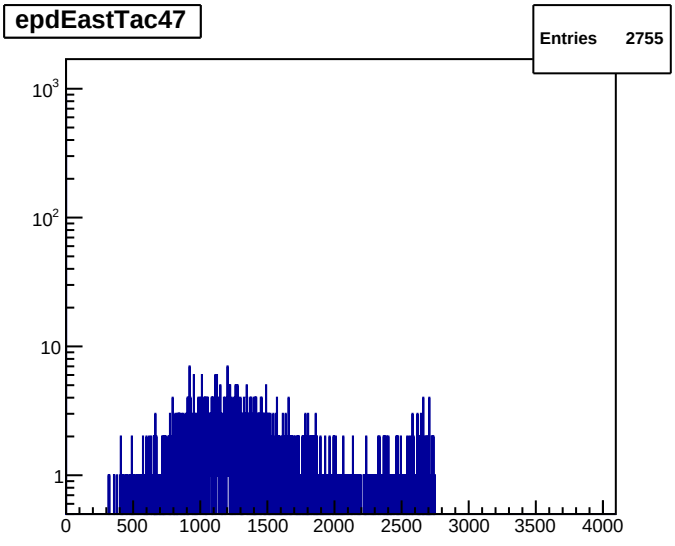

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

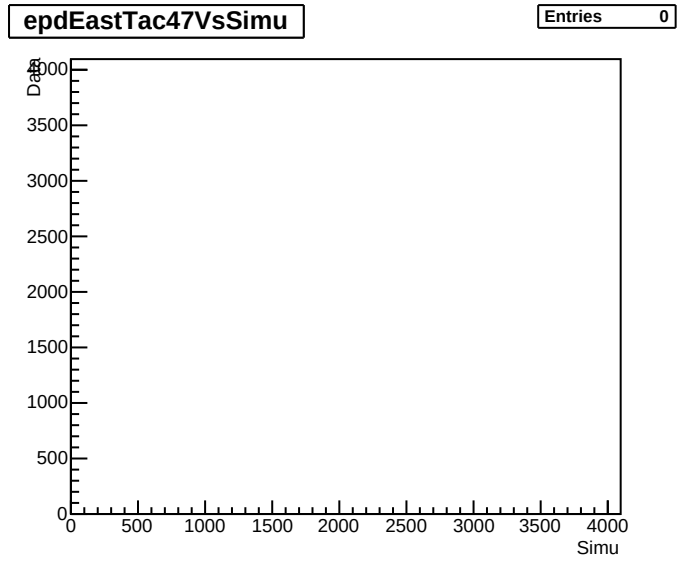

epdWestTHits
Entries 22040
Truncated NHits
DSMInput Channel

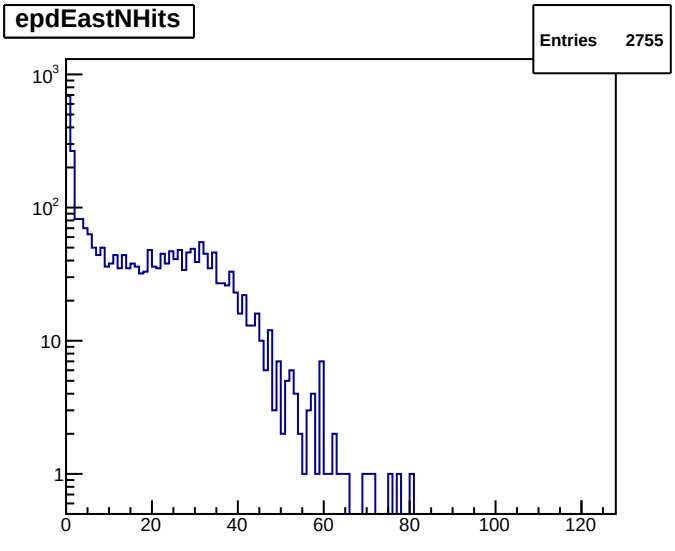

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

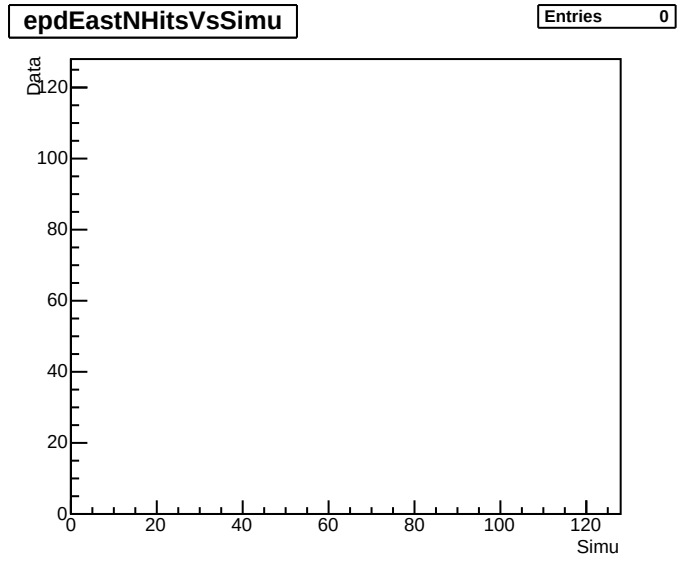

epdEastTac03
Entries 2755
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

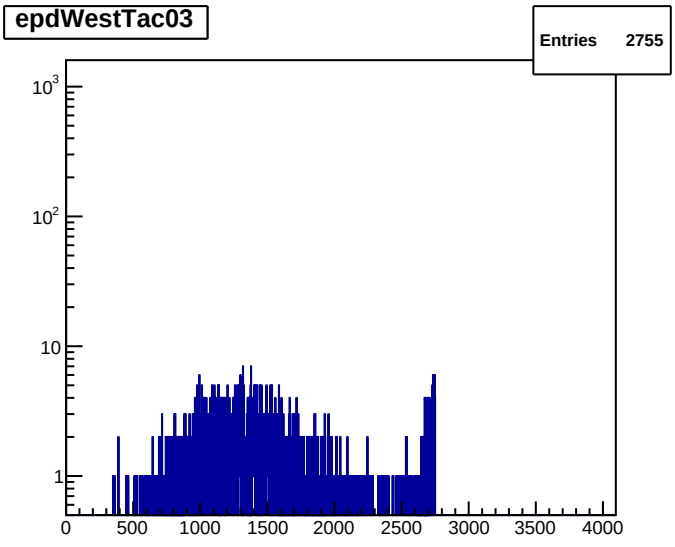

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

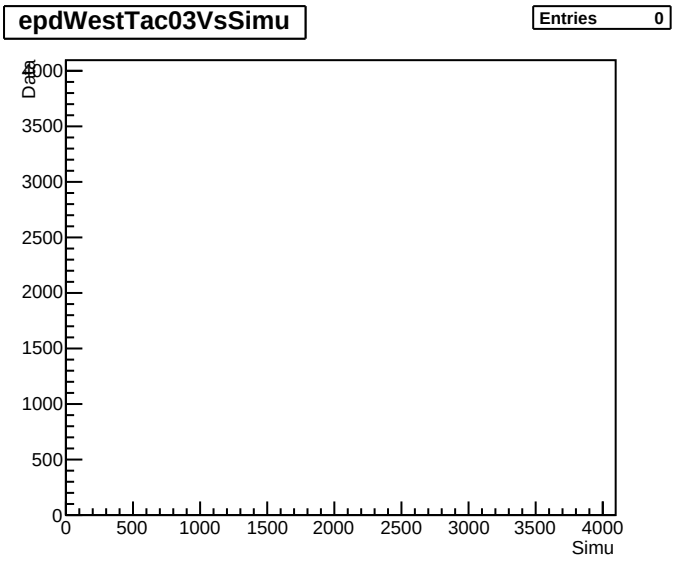

epdEastTac47
Entries 2755
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

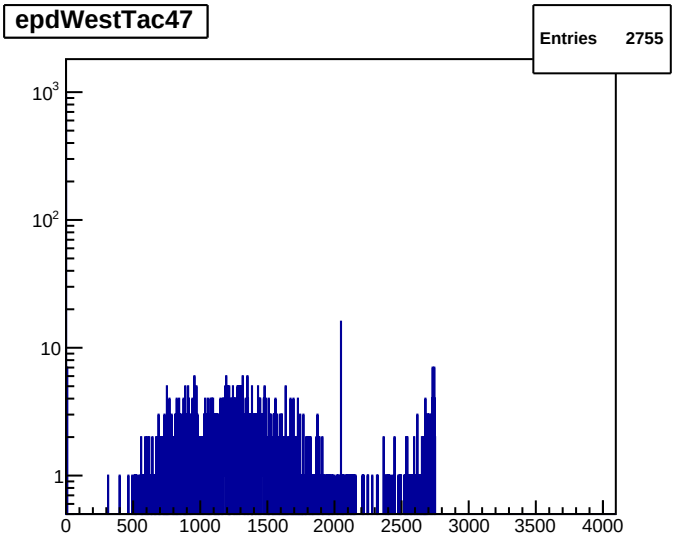

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

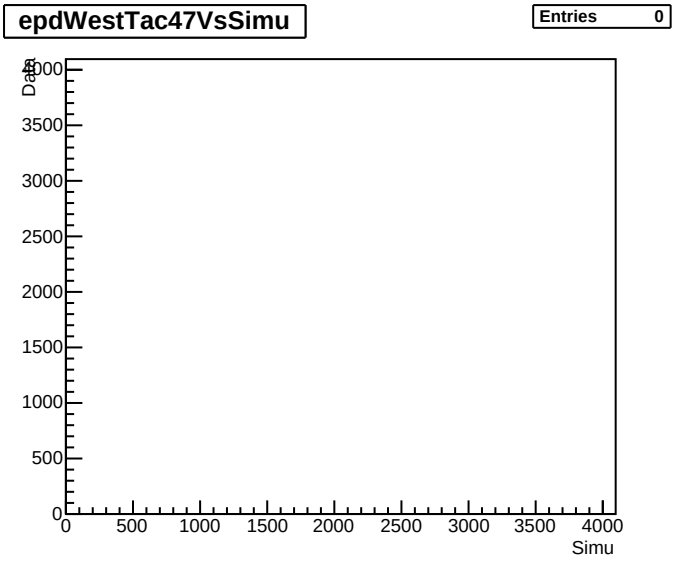

epdEastNHits
Entries 2755
10^3
10^2
10
1
0 20 40 60 80 100 120

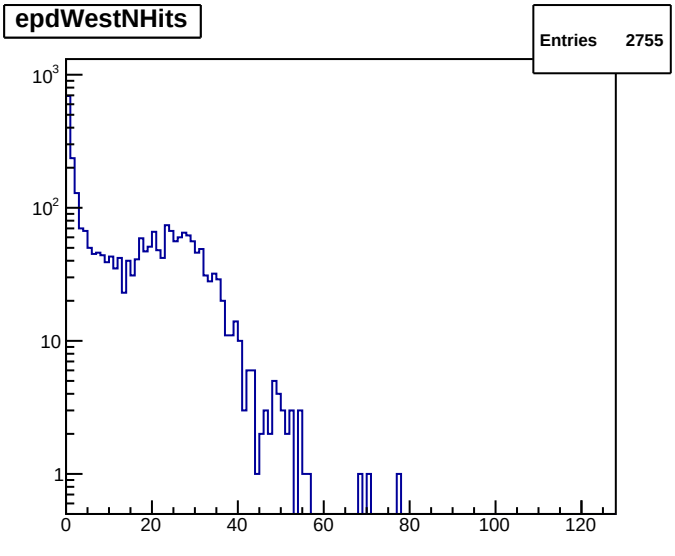

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

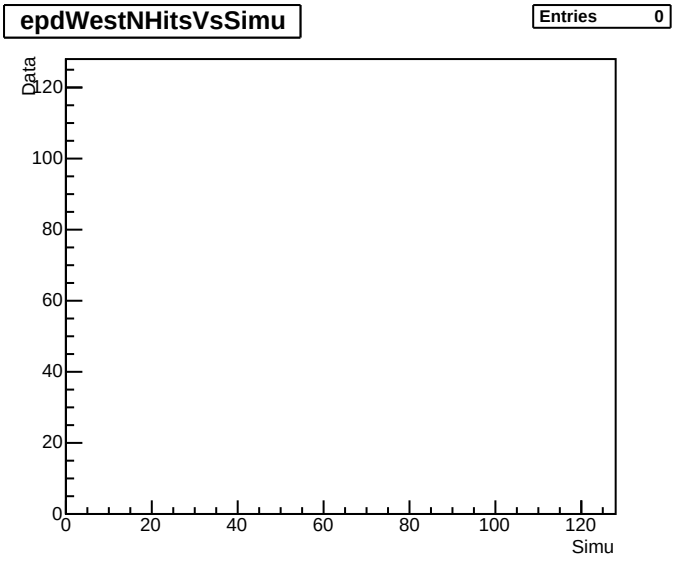

epdWestTac03
Entries 2755

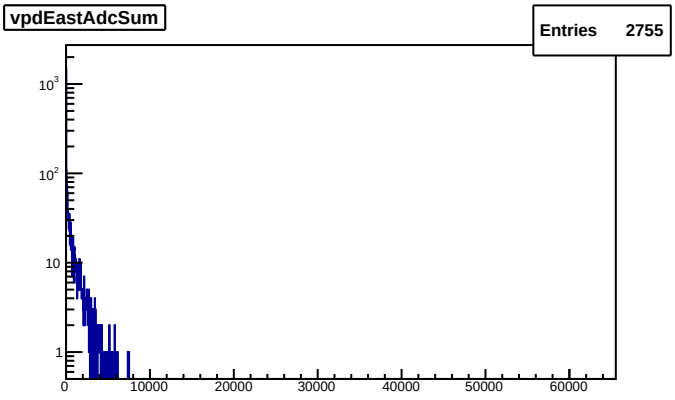

epdWestTac03VsSimu
Entries 0
Data
Simu

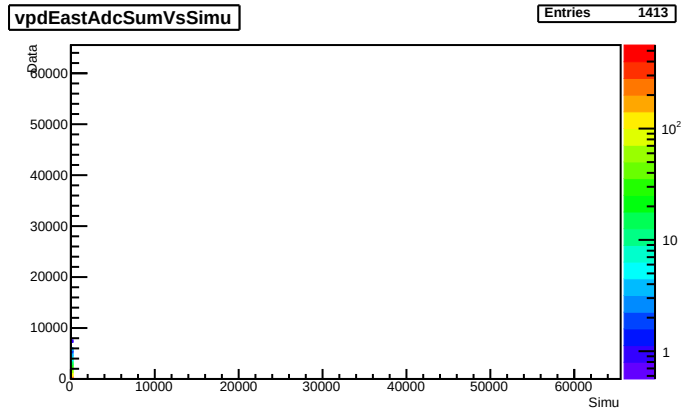

epdWestTac47
Entries 2755

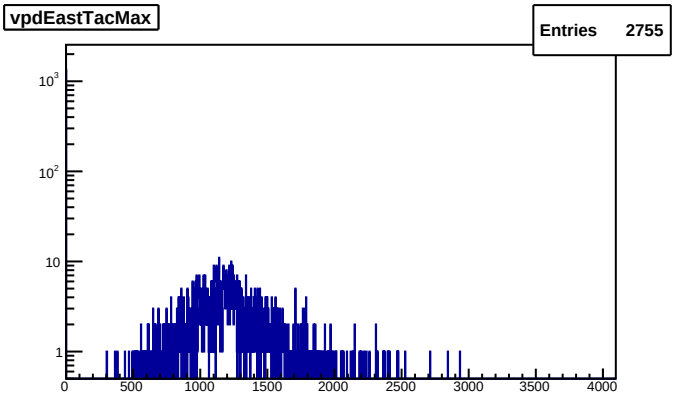

epdWestTac47VsSimu
Entries 0
Data
Simu

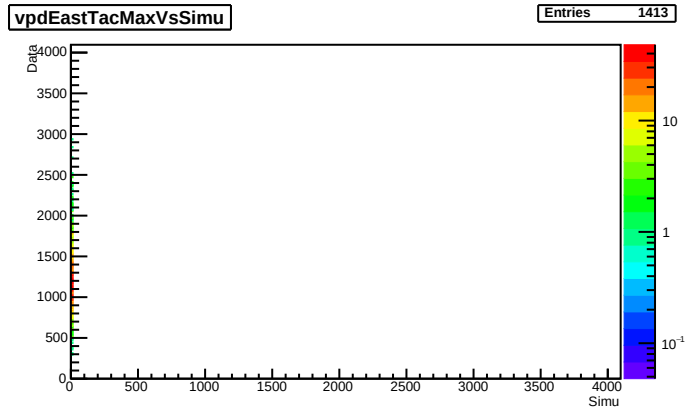

epdWestNHits
Entries 2755

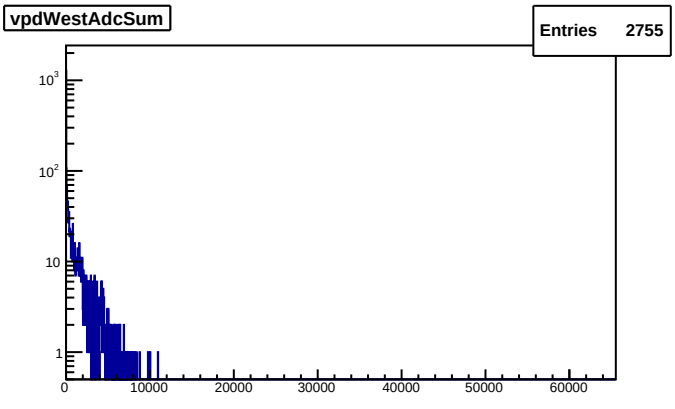

epdWestNHitsVsSimu
Entries 0
Data
Simu

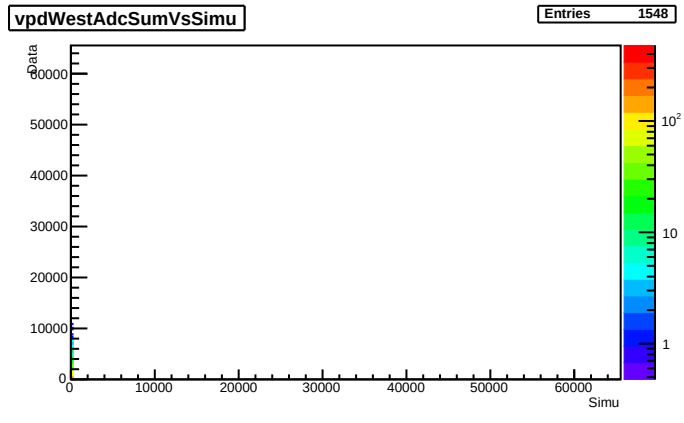

vpdEastAdcSum
Entries 2755

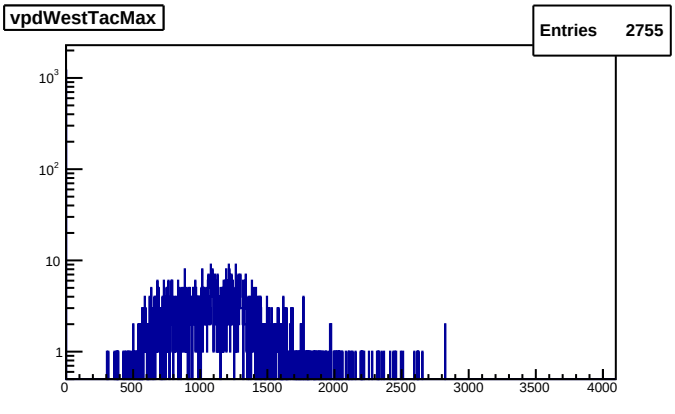

vpdEastAdcSumVsSimu
Entries 1413
Data
Simu

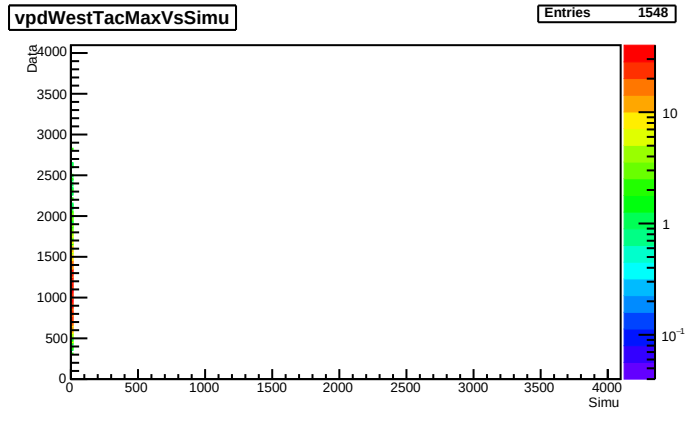

vpdEastTacMax
Entries 2755

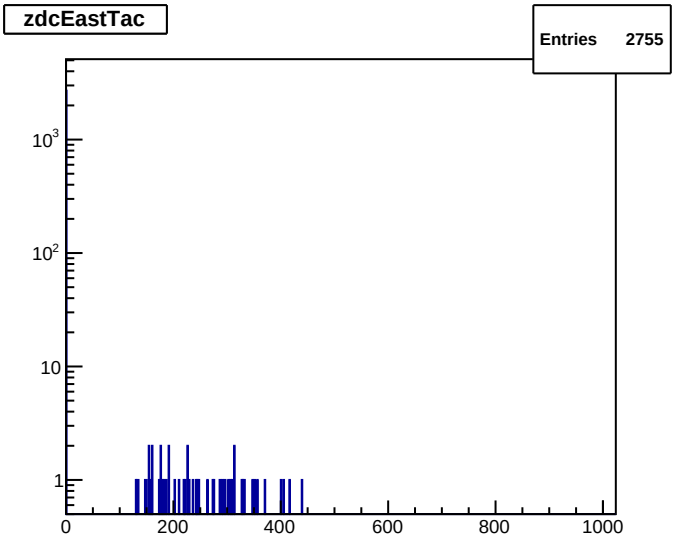

vpdEastTacMaxVsSimu
Entries 1413
Data
Simu

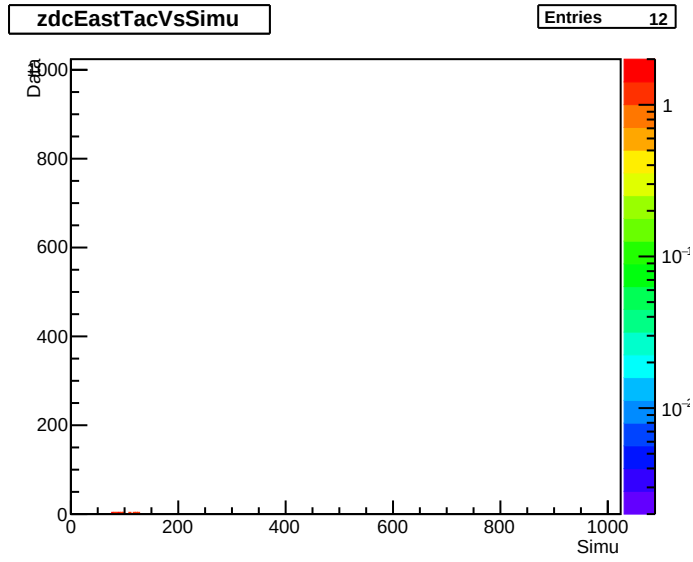

vpdWestAdcSum
Entries 2755

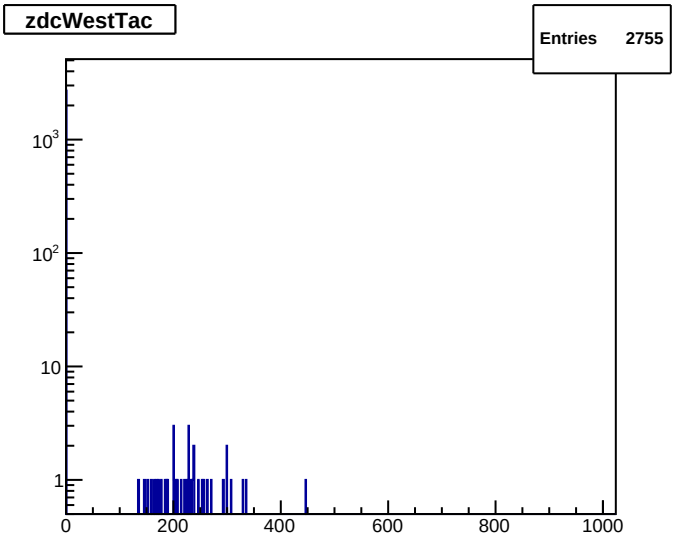

vpdWestAdcSumVsSimu
Entries 1548
Data
Simu

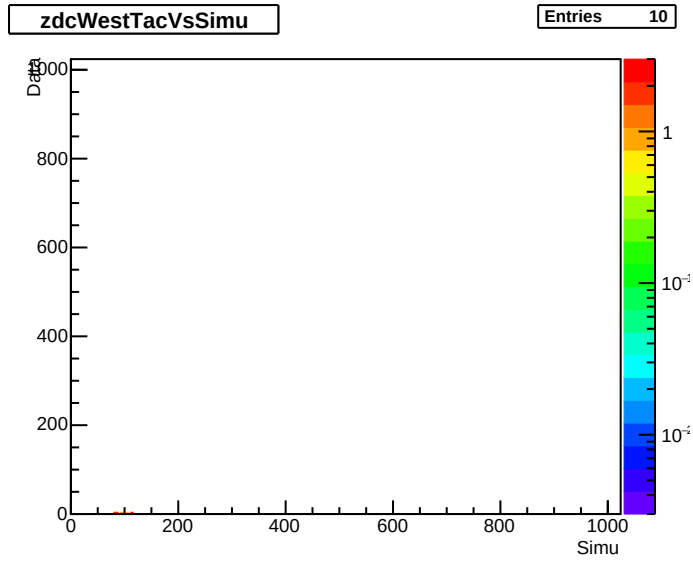

vpdWestTacMax
Entries 2755

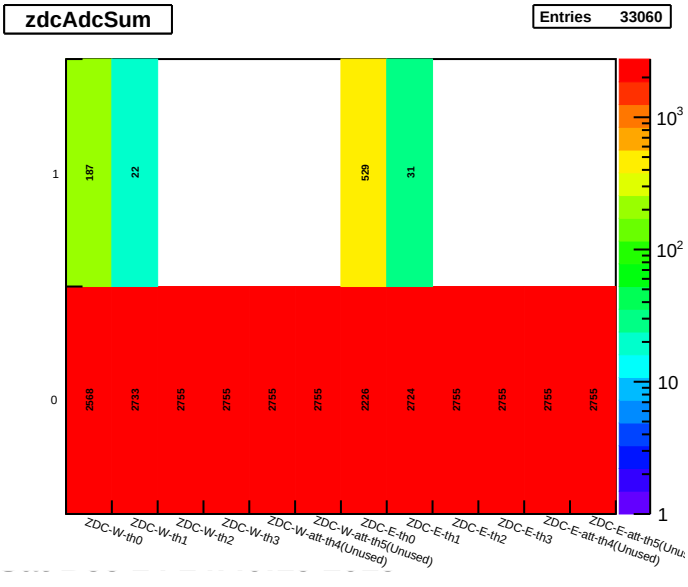

vpdWestTacMaxVsSimu
Entries 1548
Data
Simu

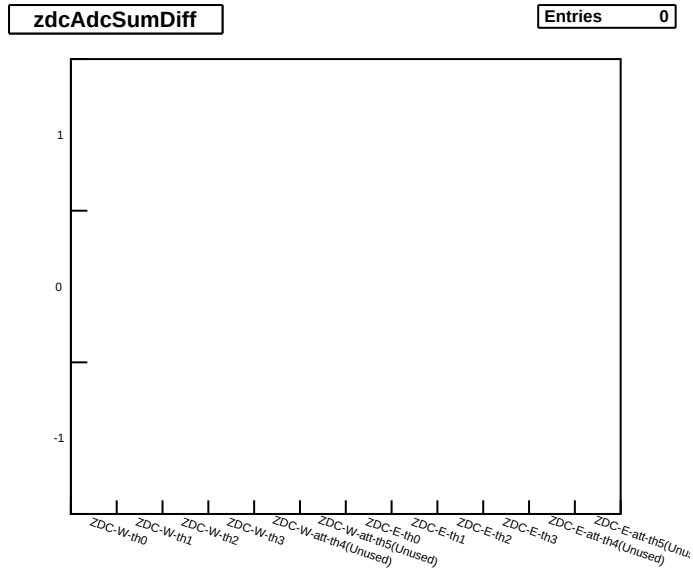

zdcEastTac
Entries 2755
10^3
10^2
10
1
0
200
400
600
800
1000

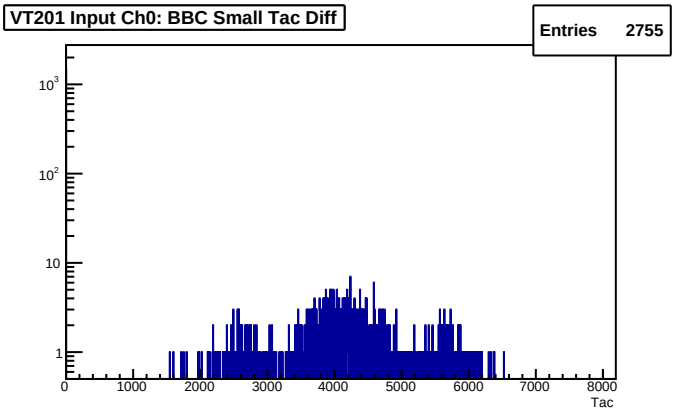

zdcEastTacVsSimu
Entries 12
Data
Simu
0
200
400
600
800
1000
1

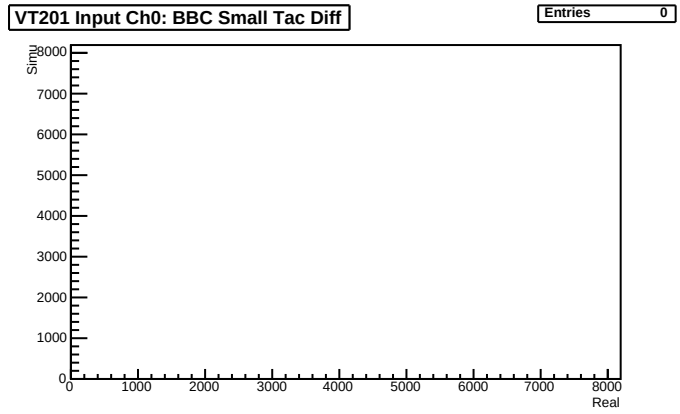

zdcWestTac
Entries 2755
10^3
10^2
10
1
0
200
400
600
800
1000

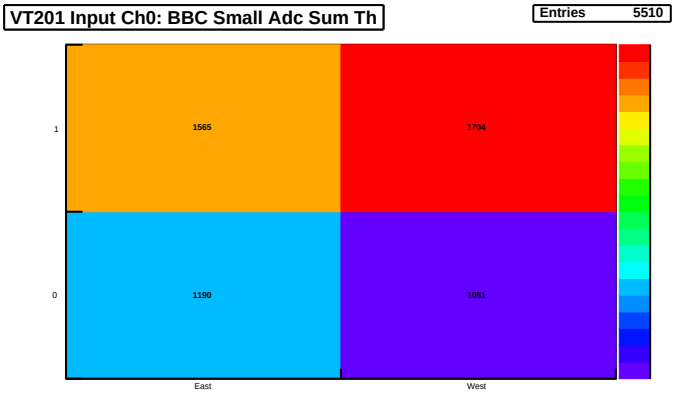

zdcWestTacVsSimu
Entries 10
Data
Simu
0
200
400
600
800
1000
1

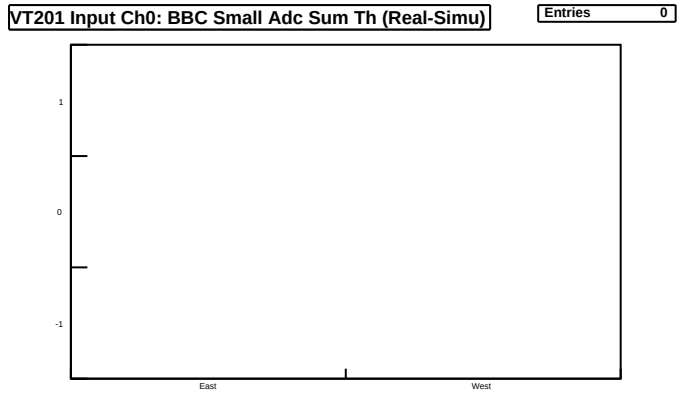

zdcAdcSum
Entries 33060
1
0
187
22
529
31
2568
2733
2755
2755
2755
2755
2226
2724
2755
2755
2755
2755
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

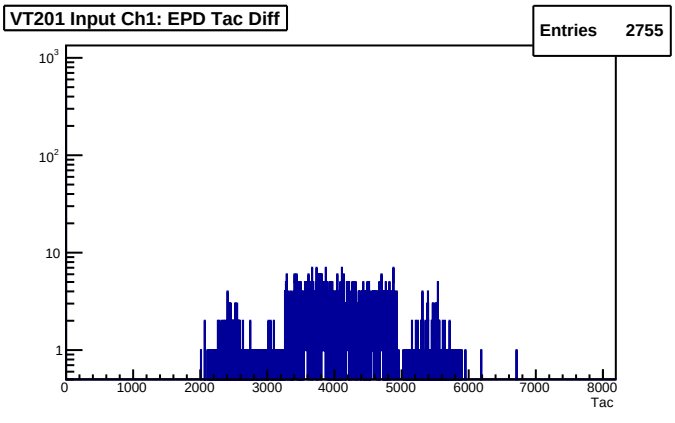

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

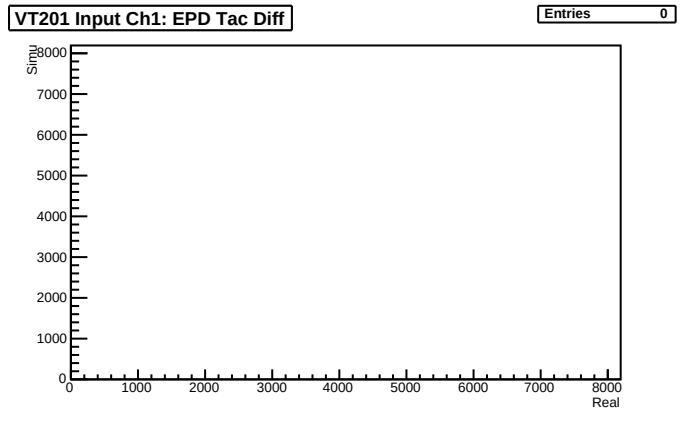

VT201 Input Ch0: BBC Small Tac Diff
Entries 2755
Tac

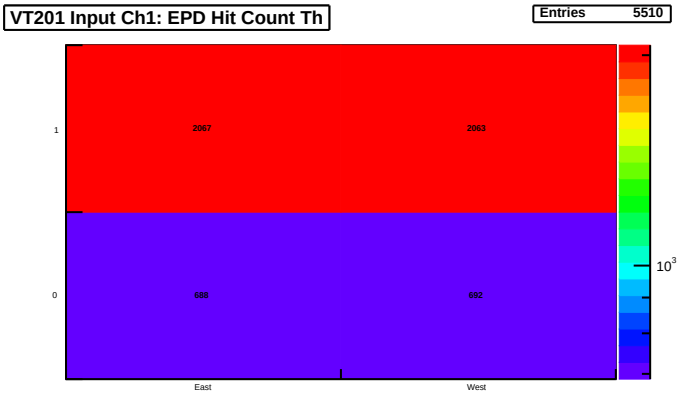

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

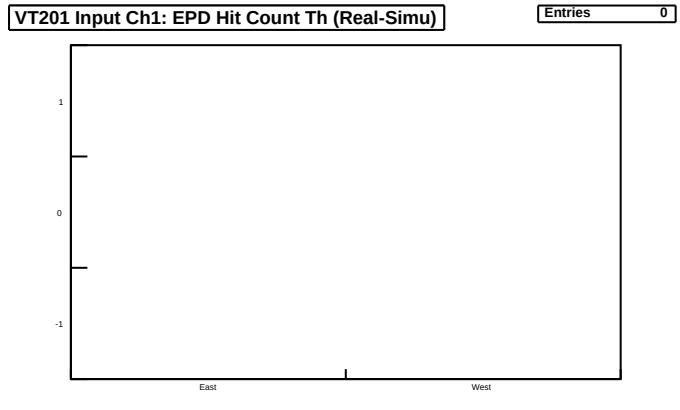

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 5510
1565
1704
1190
1051
East
West

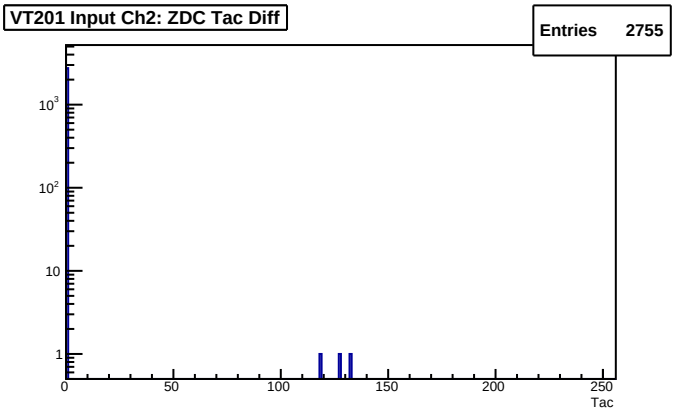

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

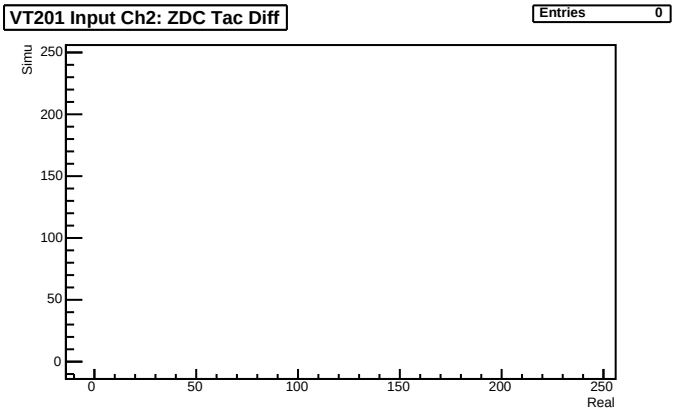

VT201 Input Ch1: EPD Tac Diff
Entries 2755
Tac

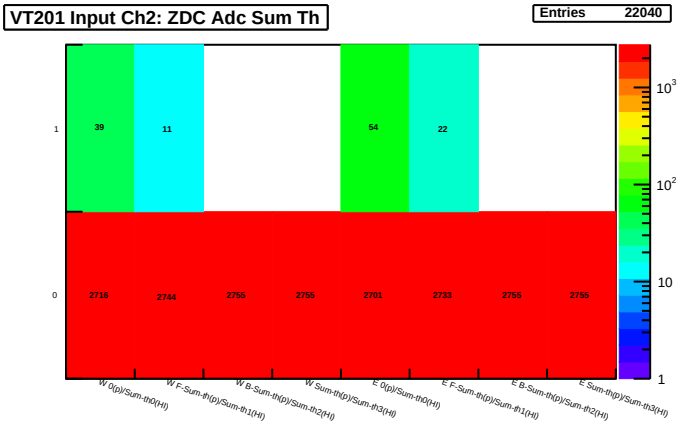

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

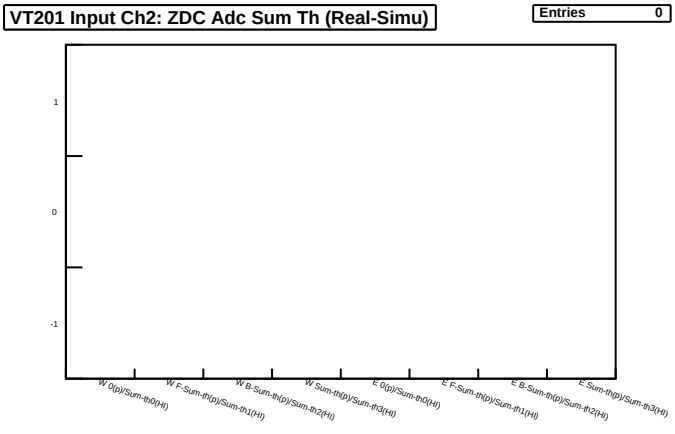

VT201 Input Ch1: EPD Hit Count Th
Entries 5510
2067
2063
688
692
East
West

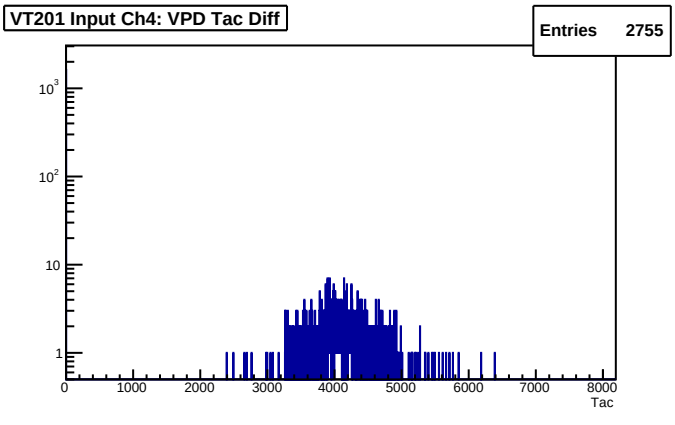

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

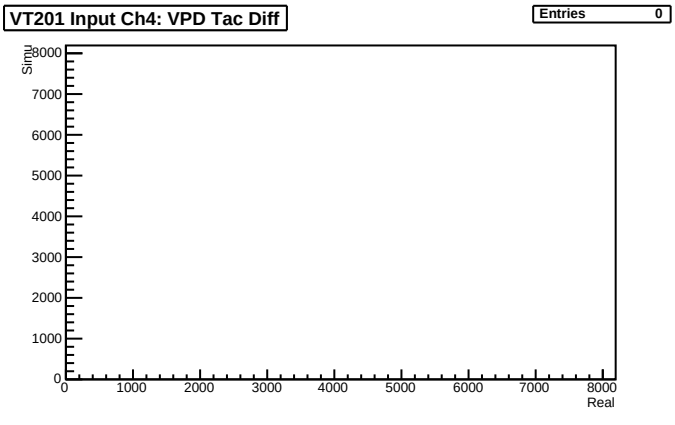

VT201 Input Ch2: ZDC Tac Diff
Entries 2755
Tac

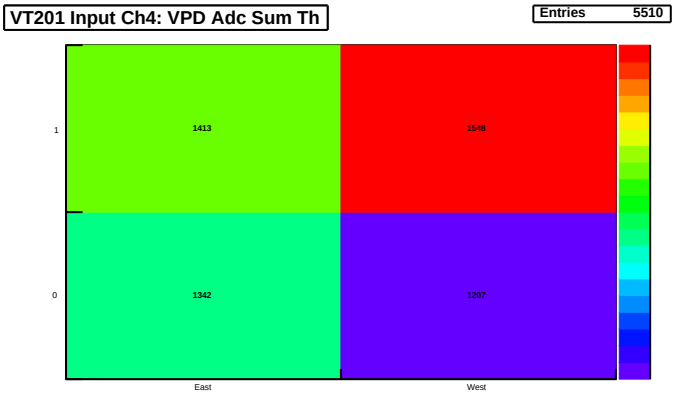

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

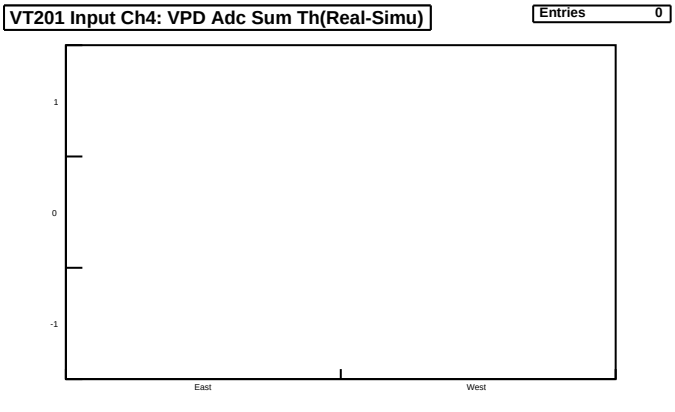

VT201 Input Ch2: ZDC Adc Sum Th
Entries 22040
39
11
54
22
2716
2744
2755
2755
2701
2733
2755
2755
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

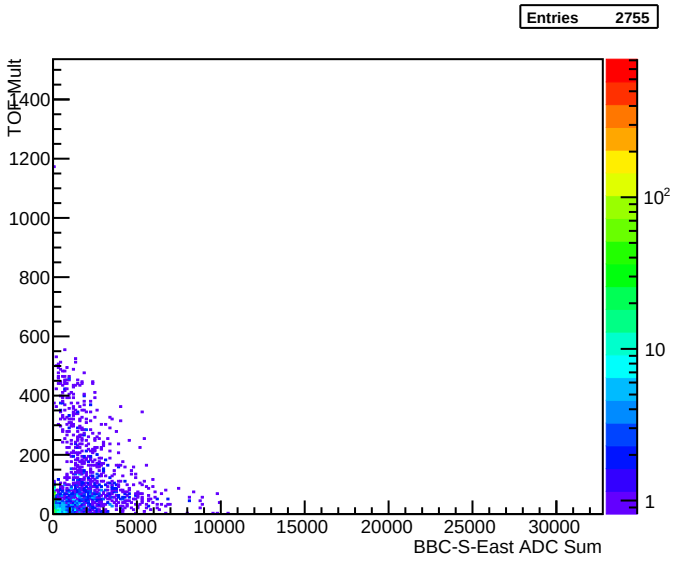

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

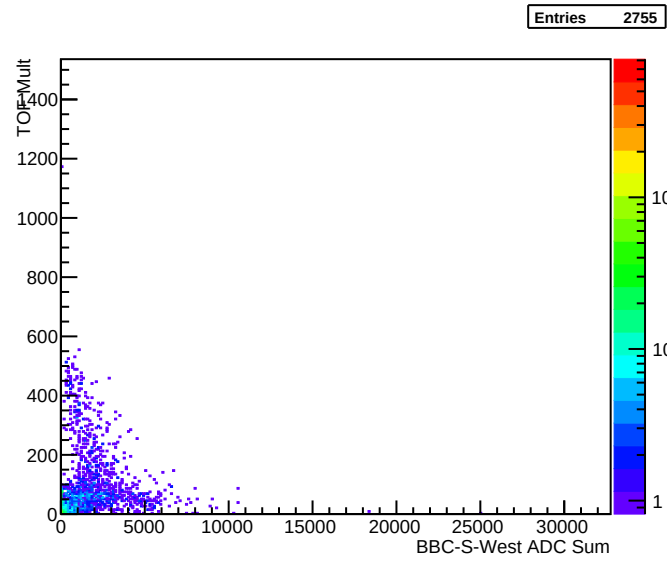

VT201 Input Ch4: VPD Tac Diff
Entries 2755
Tac

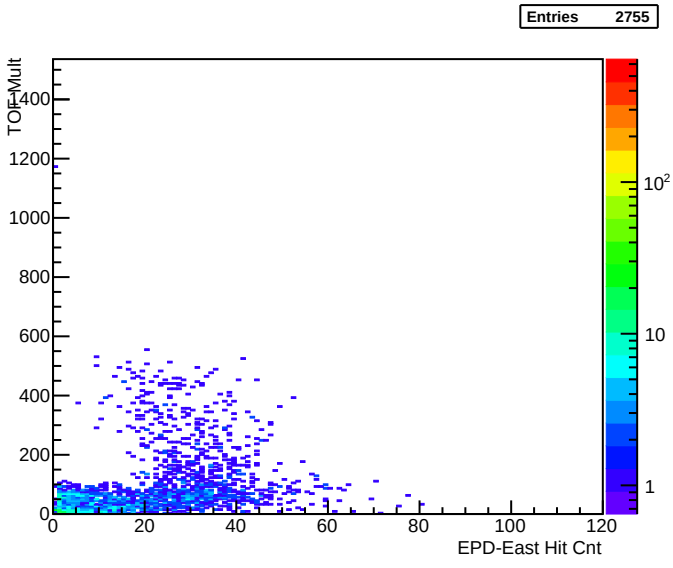

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

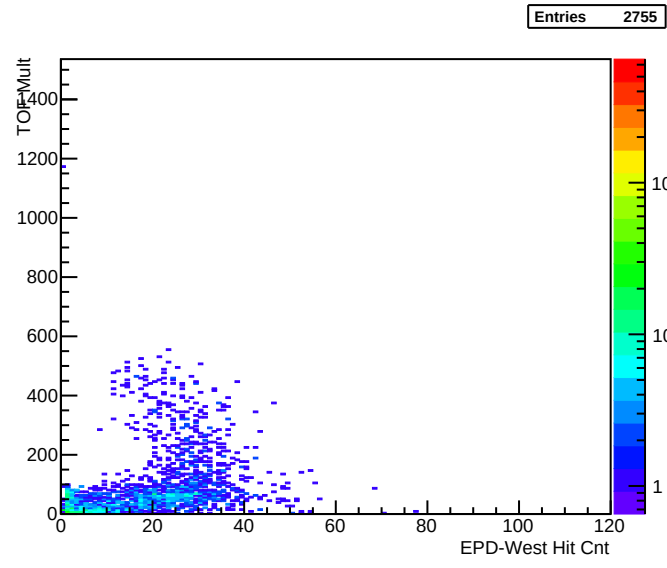

VT201 Input Ch4: VPD Adc Sum Th
Entries 5510
1413
1548
1342
1207
East
West

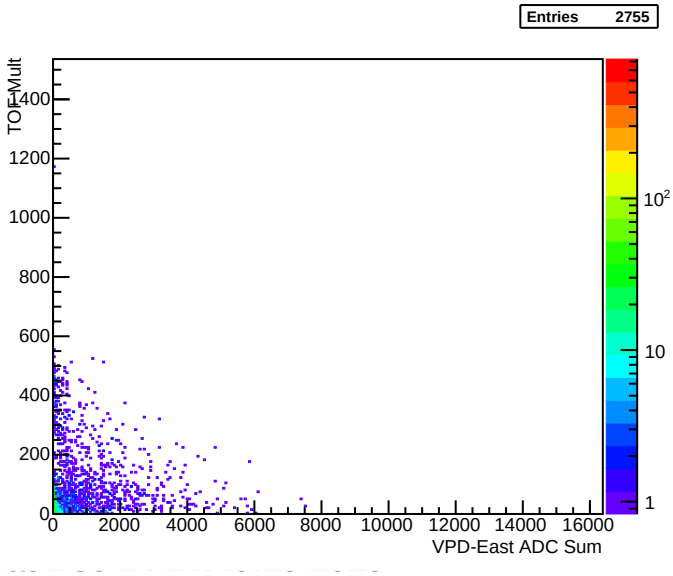

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

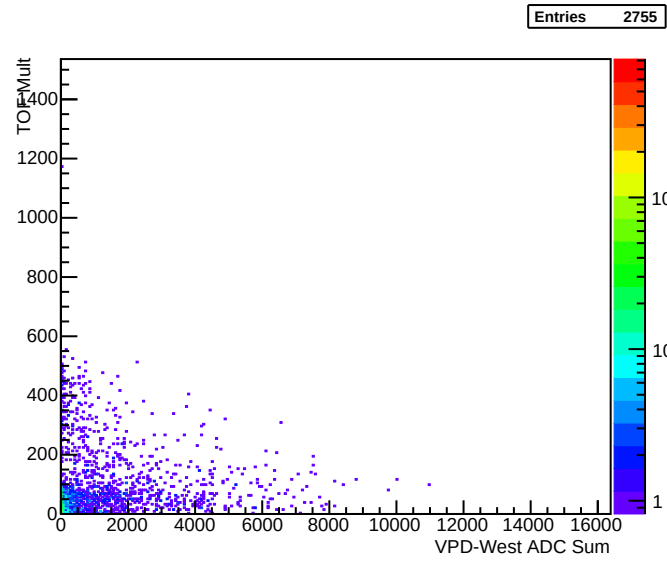

Entries 2755
TOF-Mult
BBC-S-East ADC Sum

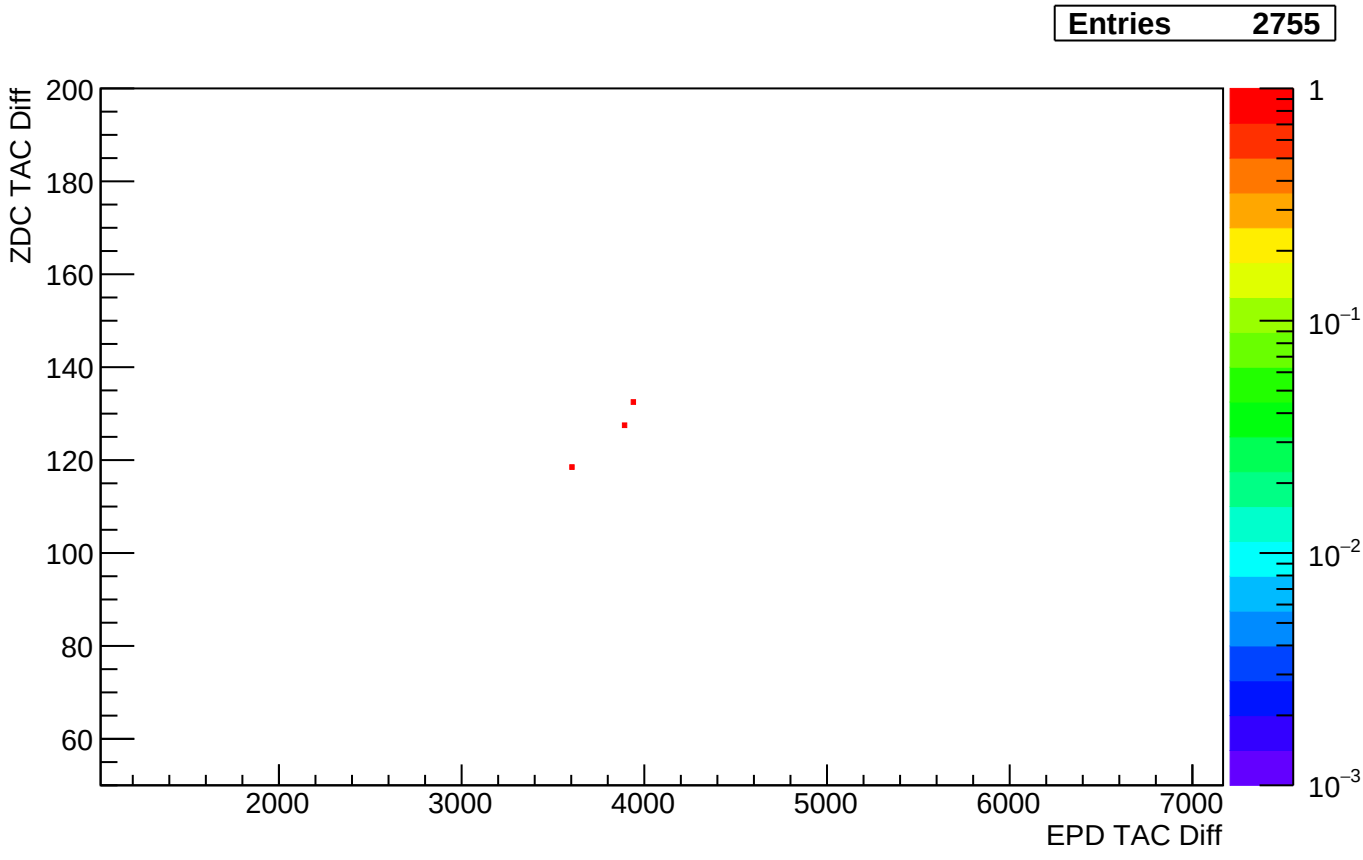

Entries 2755
TOF-Mult
BBC-S-West ADC Sum

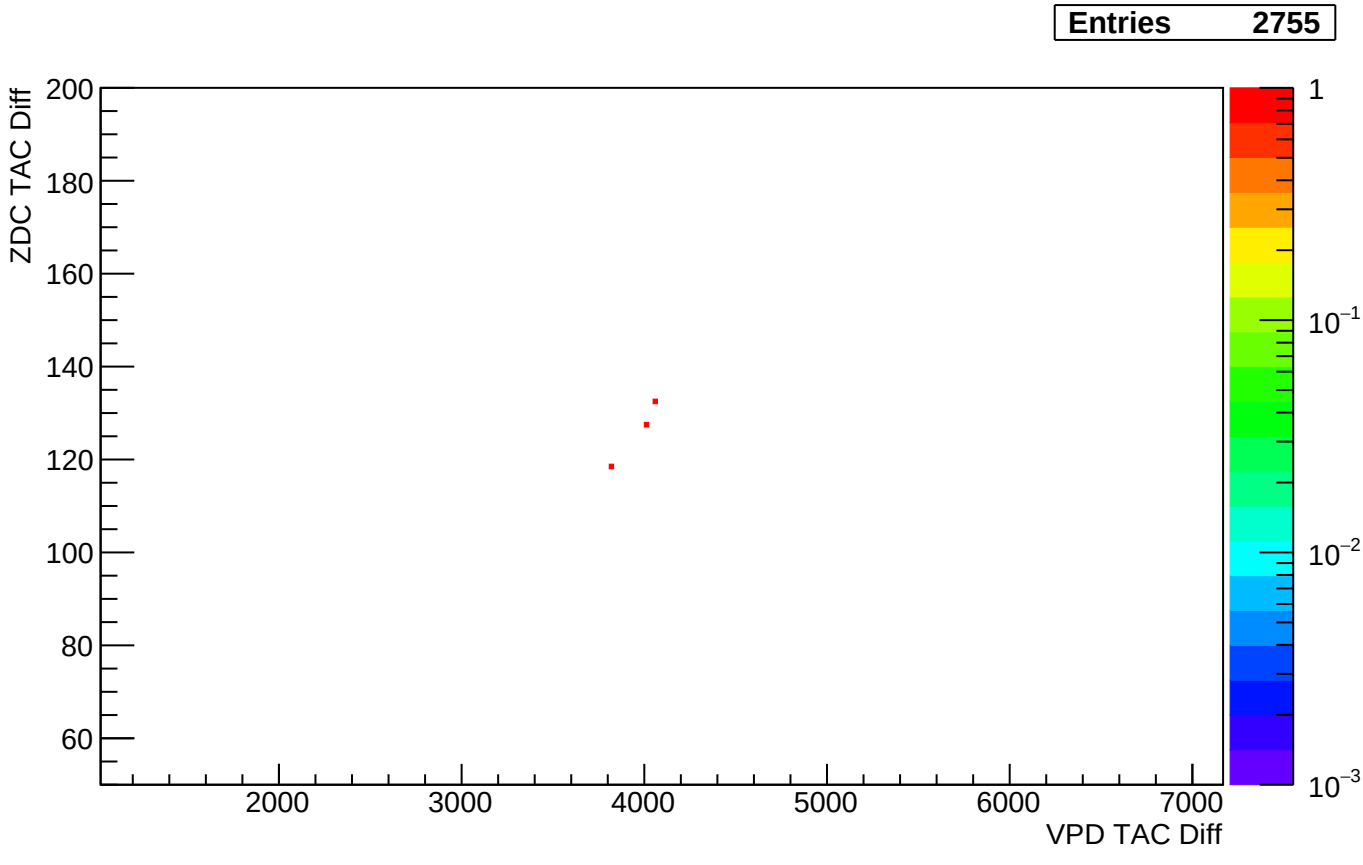

Entries 2755
TOF-Mult
EPD-East Hit Cnt

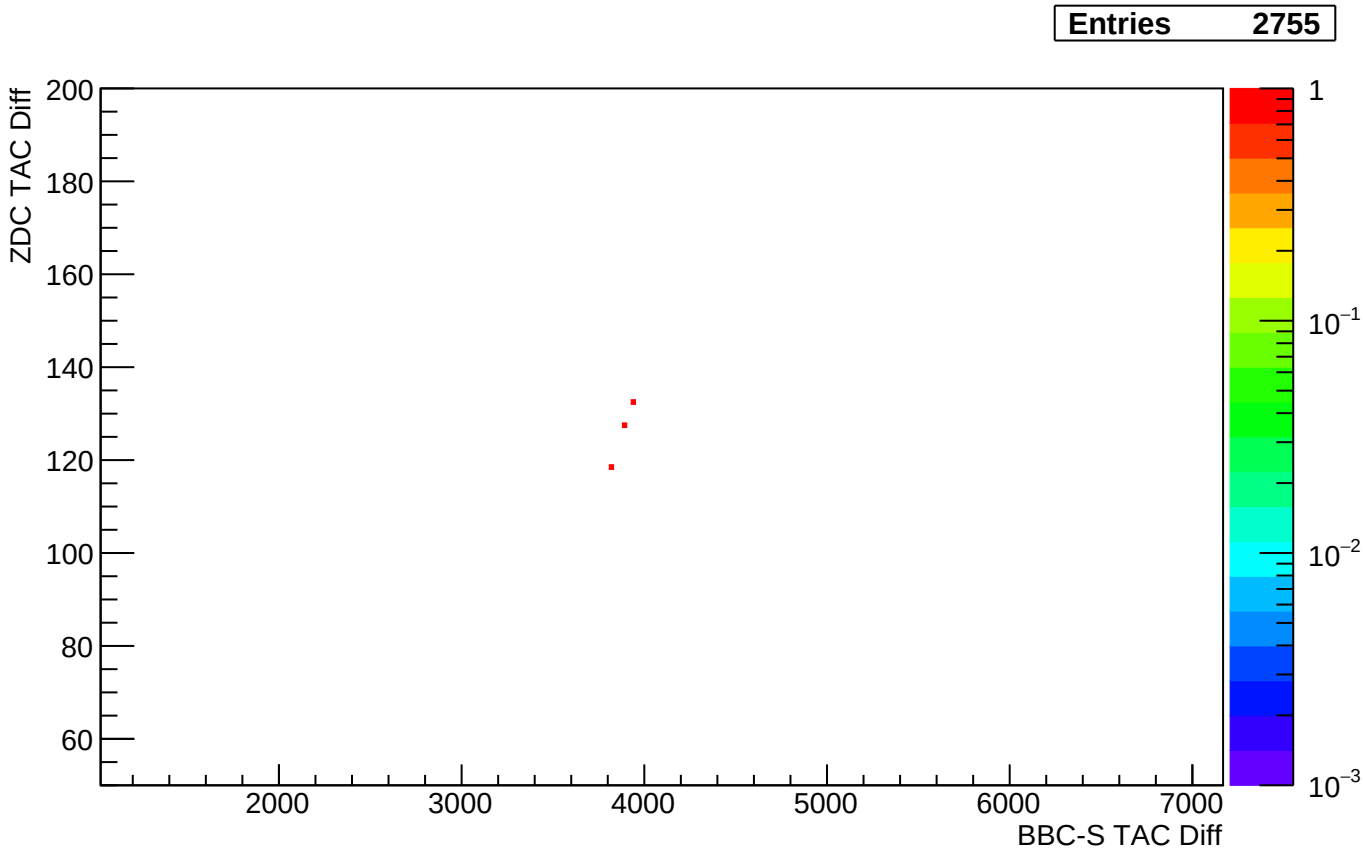

Entries 2755
TOF-Mult
EPD-West Hit Cnt

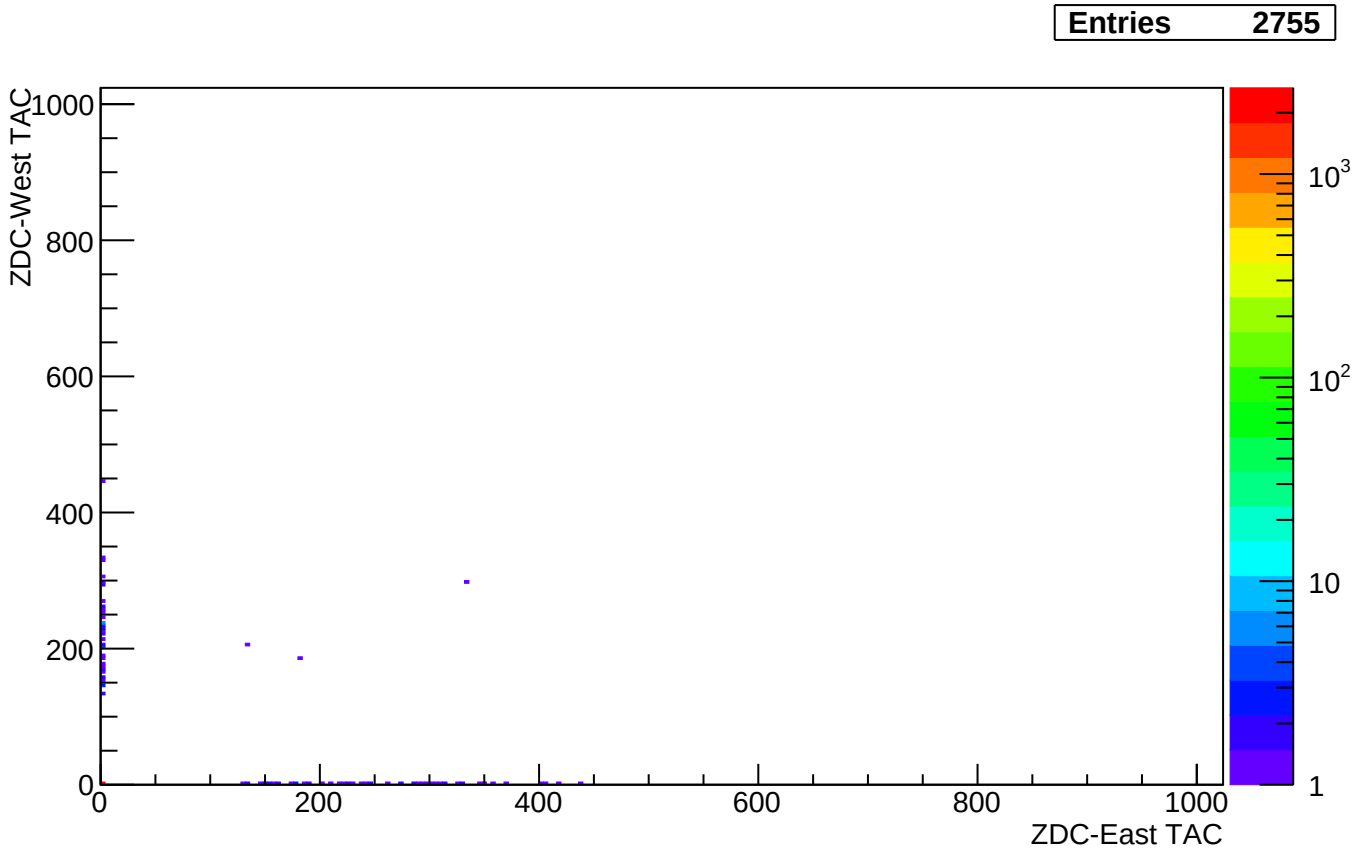

Entries 2755
TOF-Mult
VPD-East ADC Sum

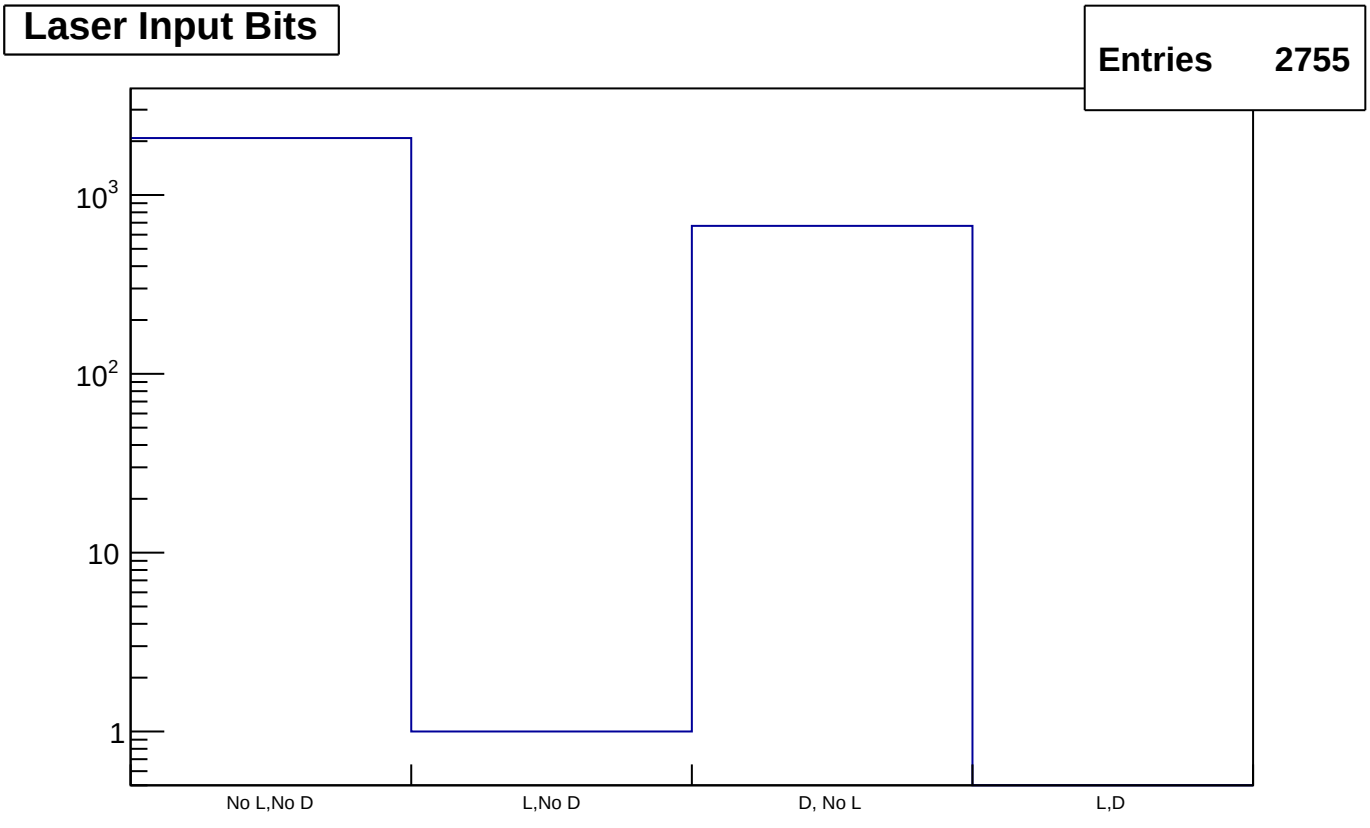

Entries 2755
TOF-Mult
VPD-West ADC Sum

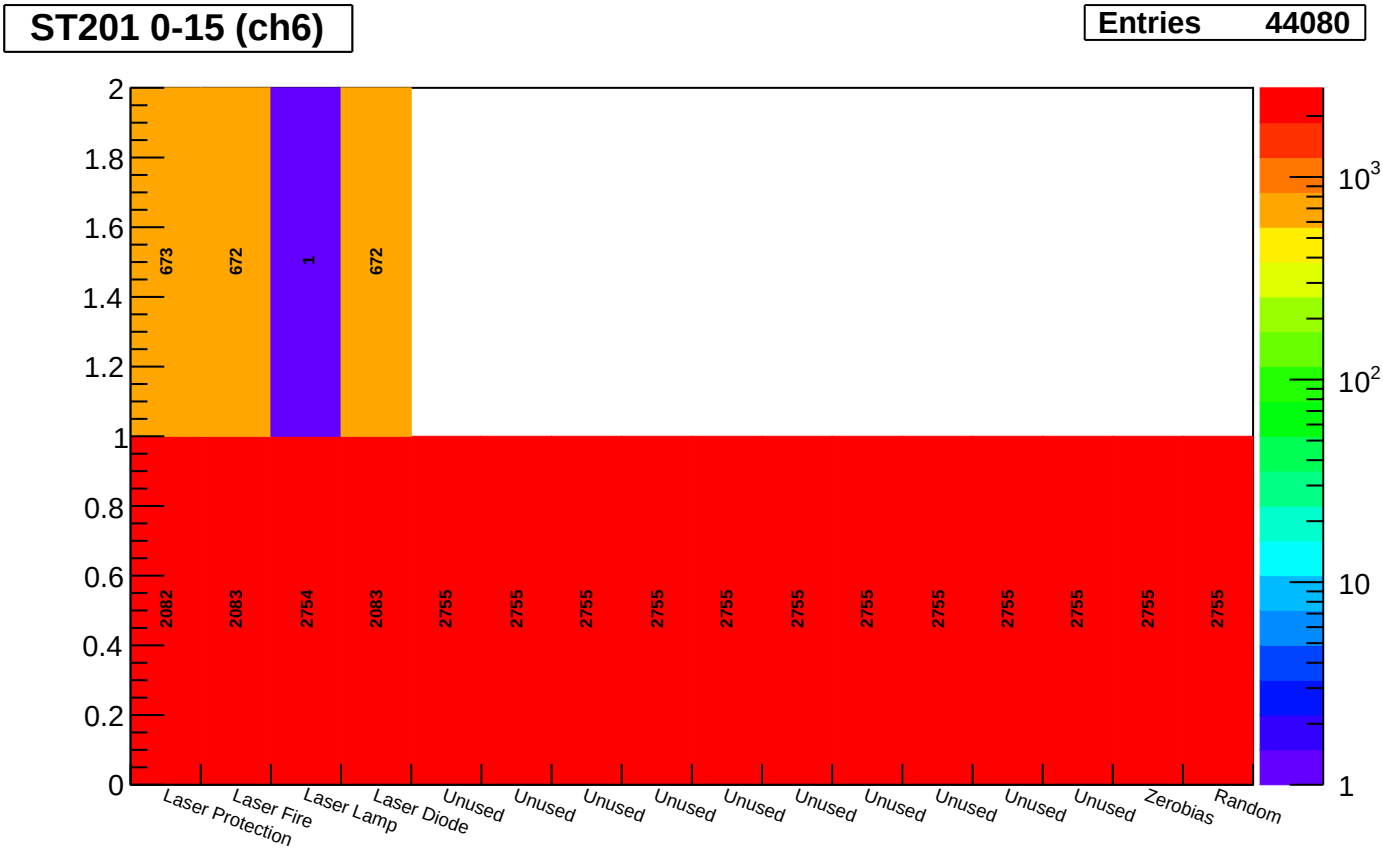

Entries 2755
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

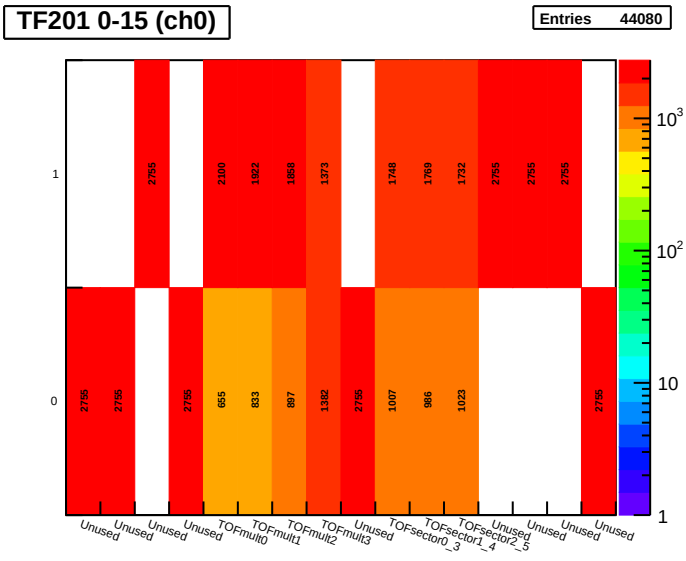

Entries 2755
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

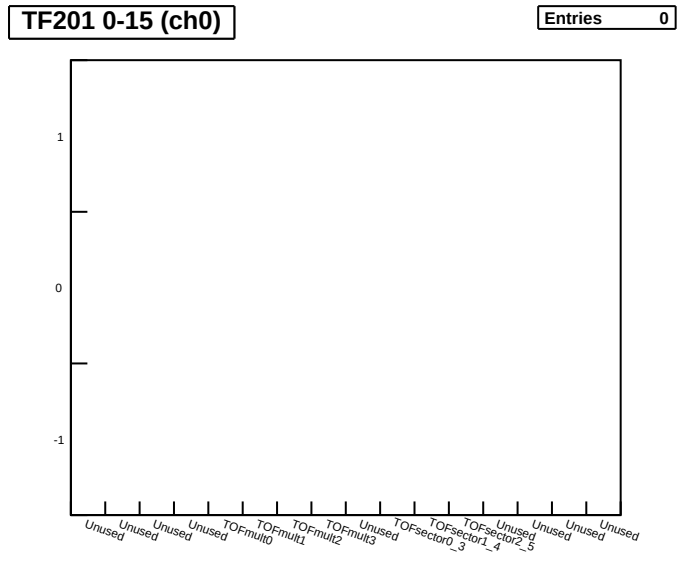

Entries 2755
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
BBC-S TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

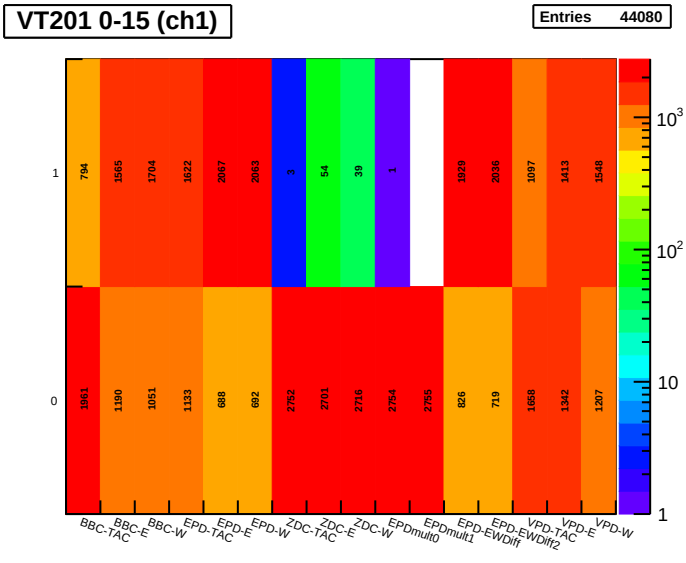

Entries 2755
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^{3}
10^{2}
10
1

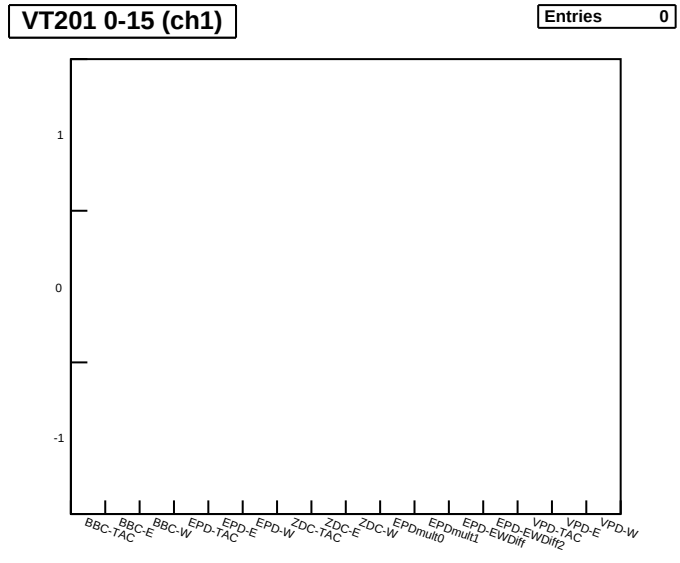

Laser Input Bits
Entries 2755
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

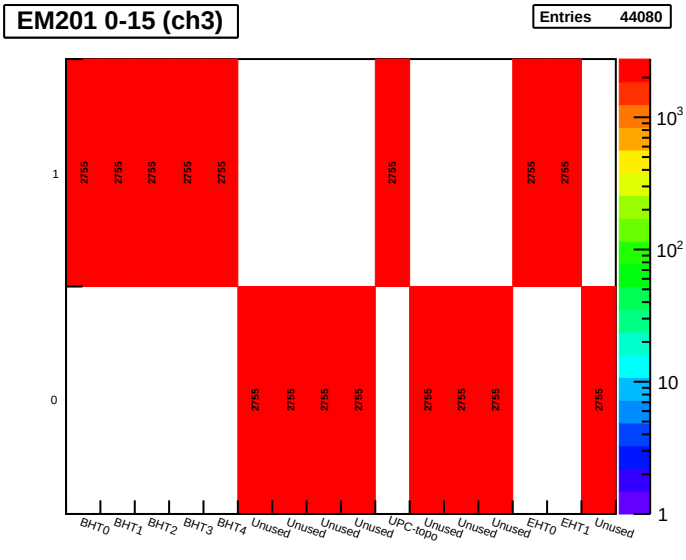

ST201 0-15 (ch6)
Entries 44080
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
673
672
1
672
2082
2083
2754
2083
2755
2755
2755
2755
2755
2755
2755
2755
2755
2755
2755
2755
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random

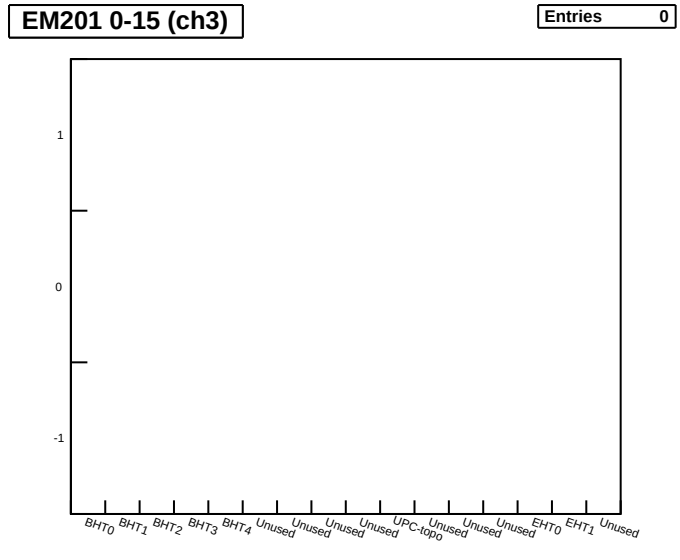

TF201 0-15 (ch0)
Entries 44080
1
0
2755 2100 1922 1858 1373 1748 1769 1732 2755 2755 2755
2755 2755 2755 655 833 897 1382 2755 1007 986 1023 2755
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^3
10^2
10
1


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 44080
1
0
794 1565 1704 1622 2067 2063 3 54 39 1 1929 2036 1097 1413 1548
1961 1190 1051 1133 688 692 2752 2701 2716 2754 2755 826 719 1658 1342 1207
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
10^3
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 44080
1
0
2755 2755 2755 2755 2755 2755 2755 2755
2755 2755 2755 2755 2755 2755 2755 2755
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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