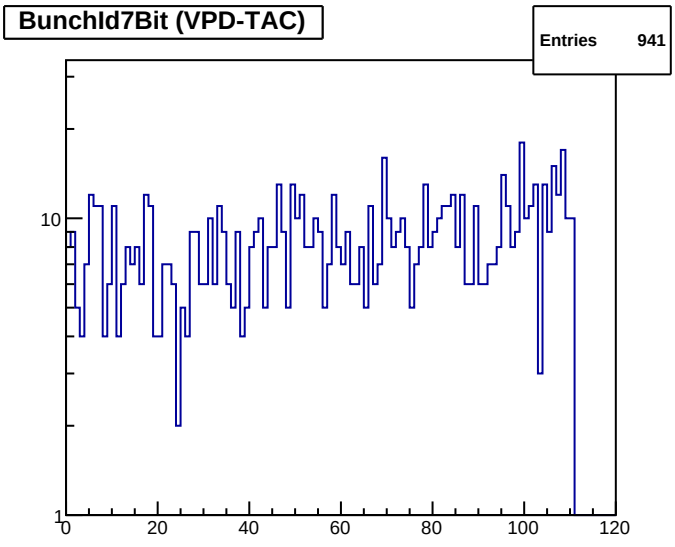
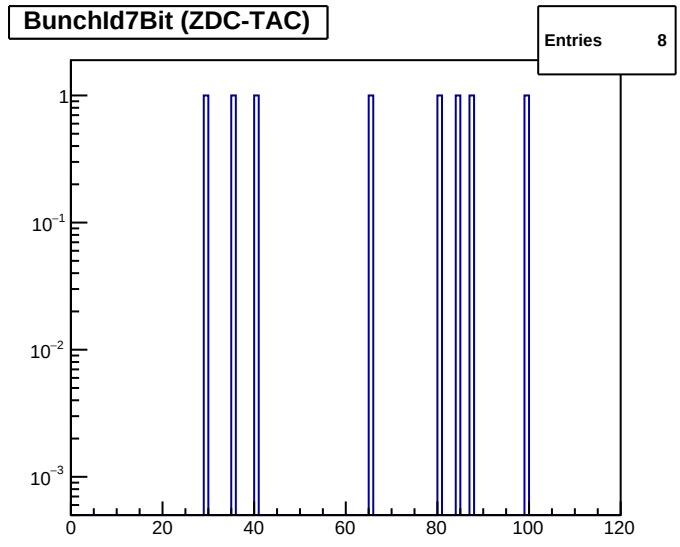
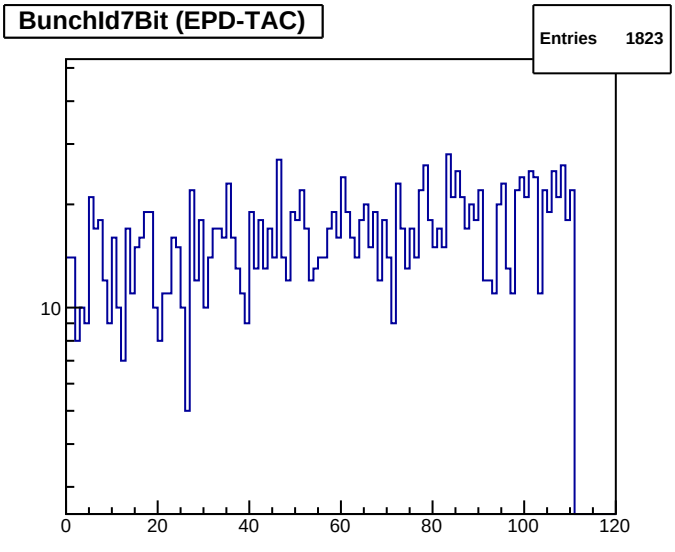
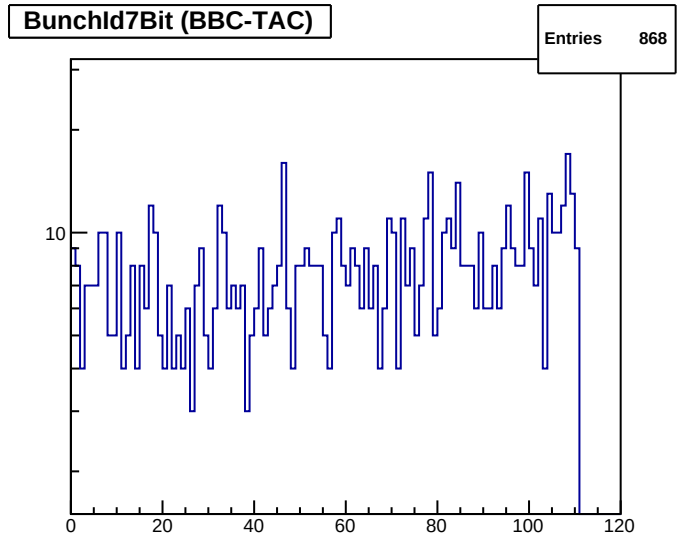
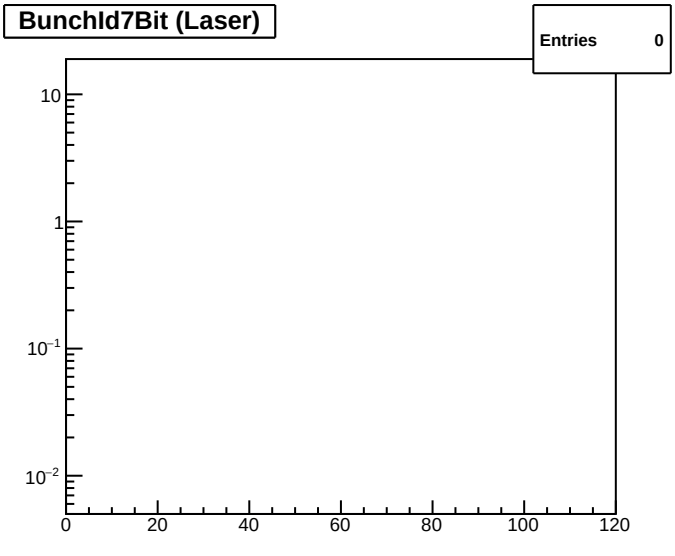
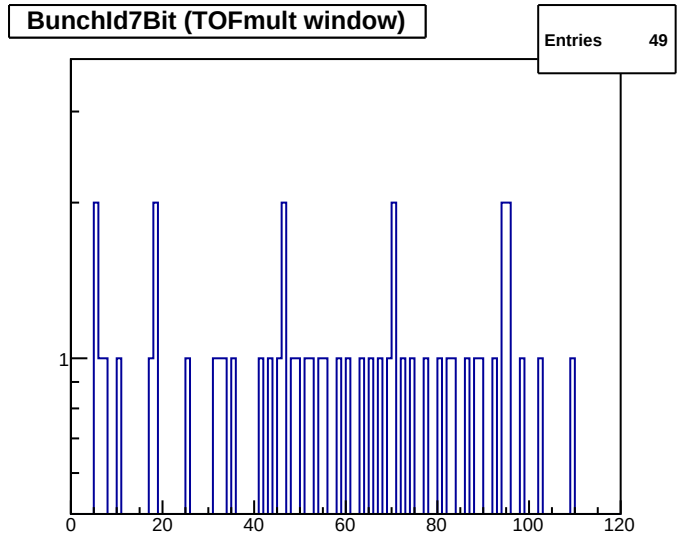

BunchId7Bit (VPD-TAC)
Entries 941

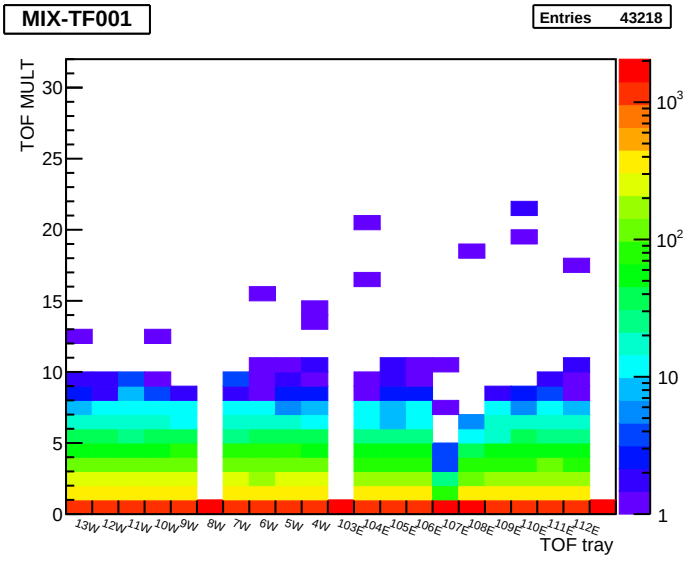

BunchId7Bit (ZDC-TAC)
Entries 8

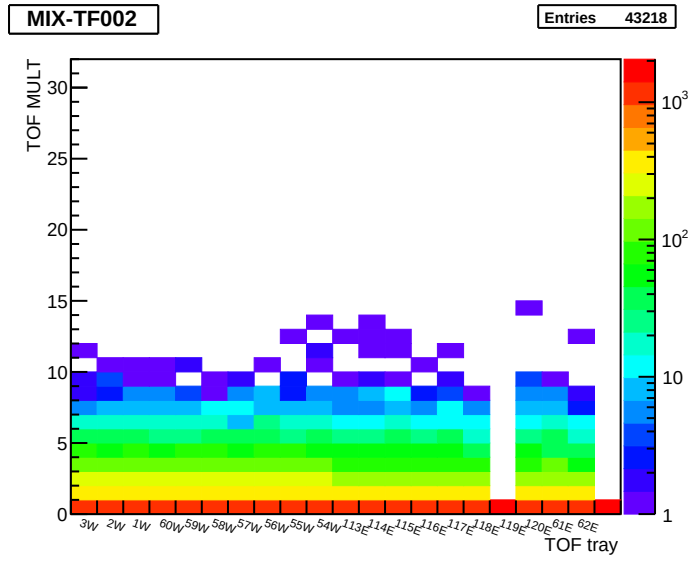

BunchId7Bit (EPD-TAC)
Entries 1823

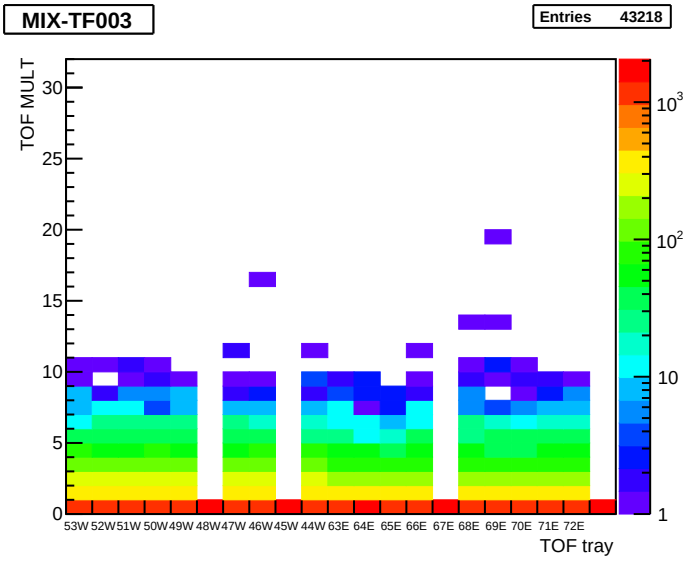

BunchId7Bit (BBC-TAC)
Entries 868

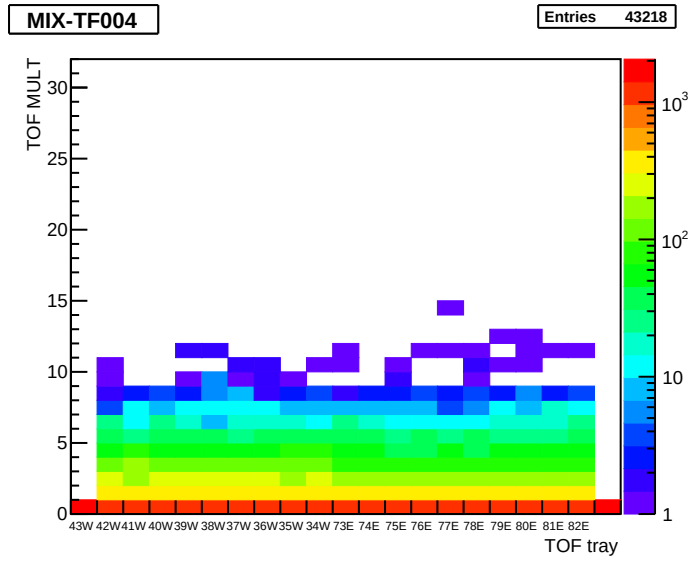

BunchId7Bit (Laser)
Entries 0

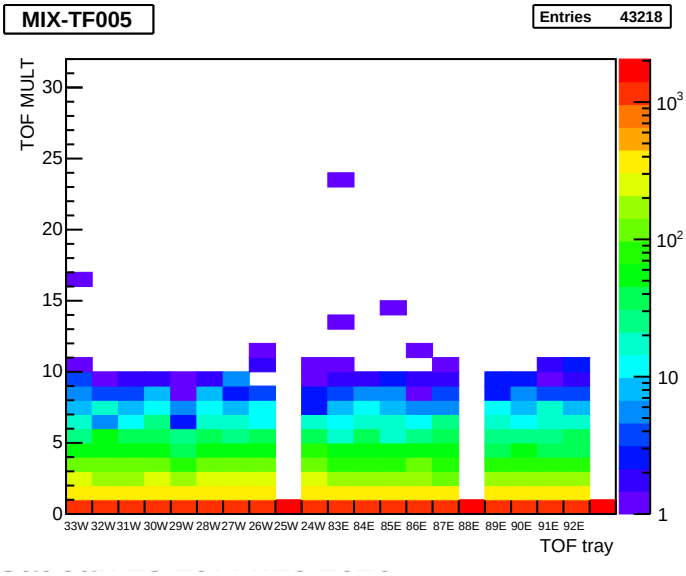

BunchId7Bit (TOFmult window)
Entries 49

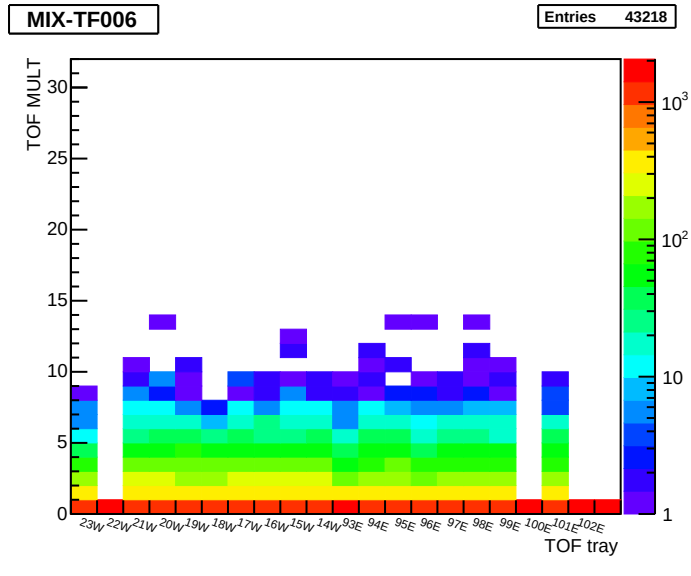

MIX-TF001
Entries 43218
TOF MULT
TOF tray

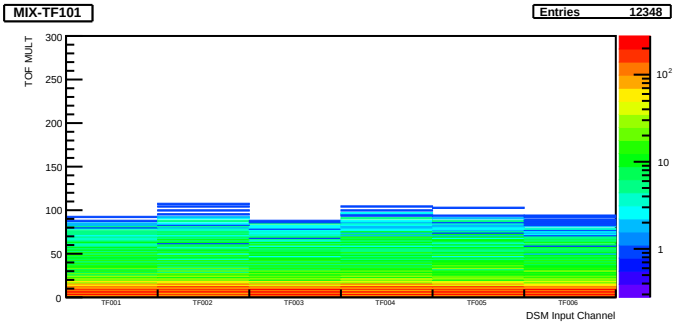

MIX-TF002
Entries 43218
TOF MULT
TOF tray

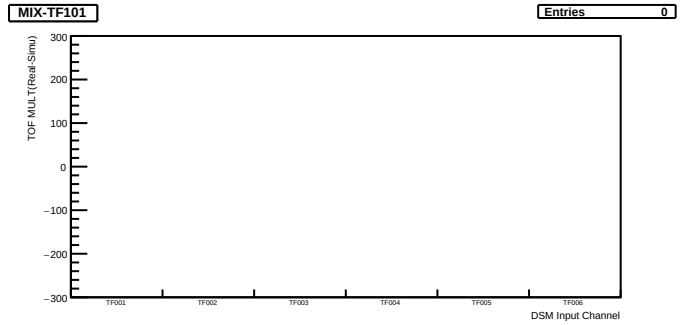

MIX-TF003
Entries 43218
TOF MULT
TOF tray

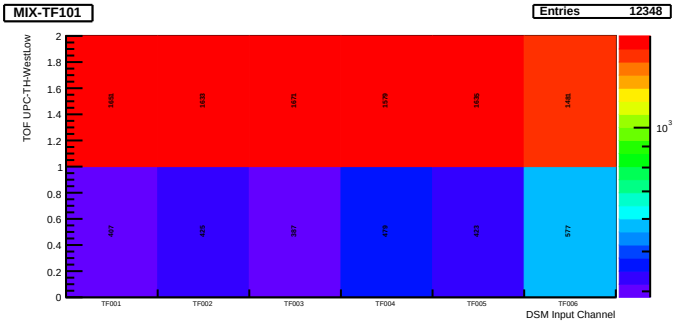

MIX-TF004
Entries 43218
TOF MULT
TOF tray

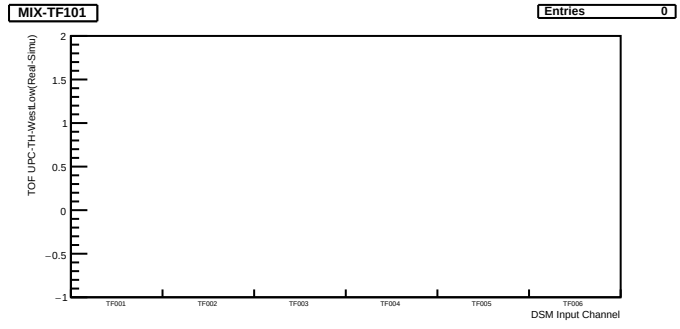

MIX-TF005
Entries 43218
TOF MULT
TOF tray

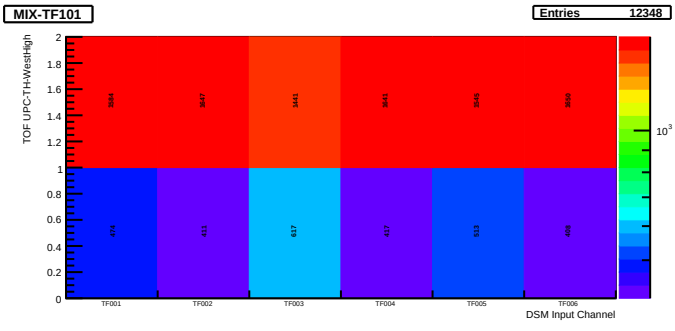

MIX-TF006
Entries 43218
TOF MULT
TOF tray

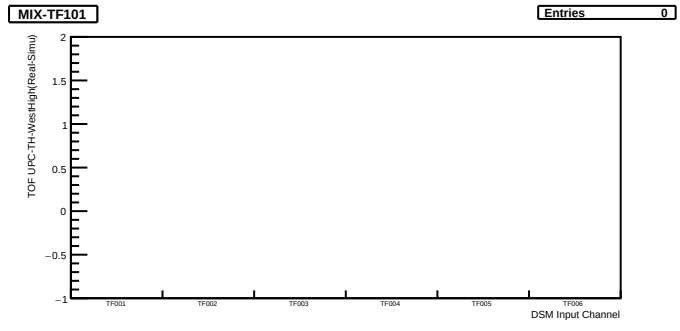

MIX-TF101
Entries 12348
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

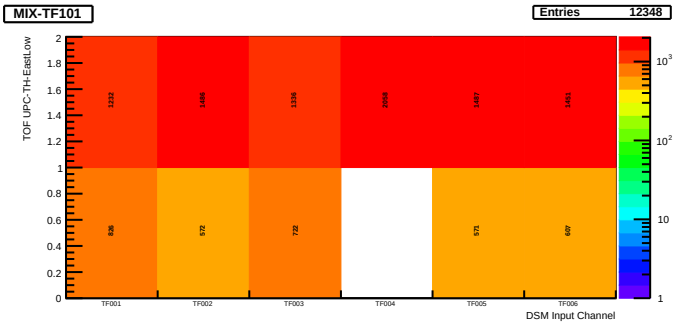

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

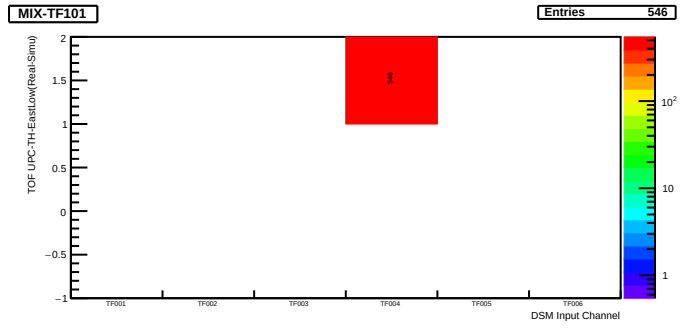

MIX-TF101
Entries 12348
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

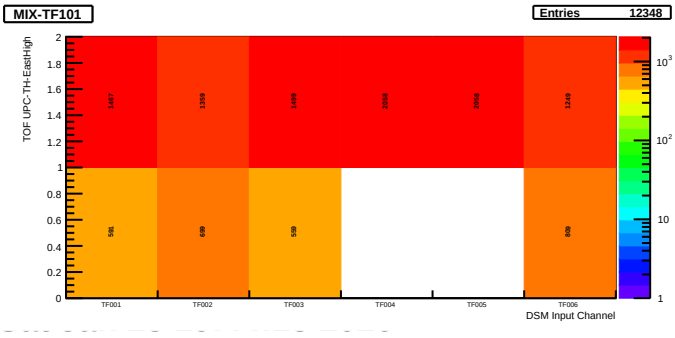

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

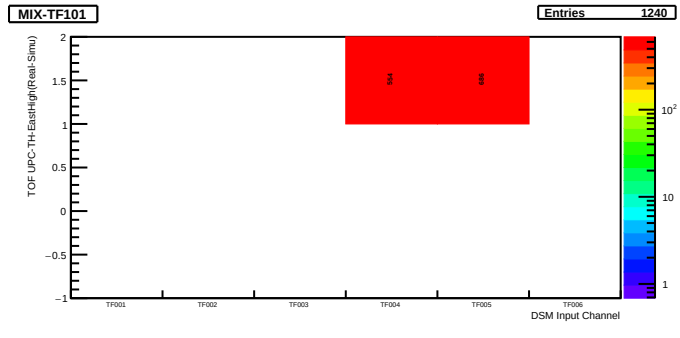

MIX-TF101
Entries 12348
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

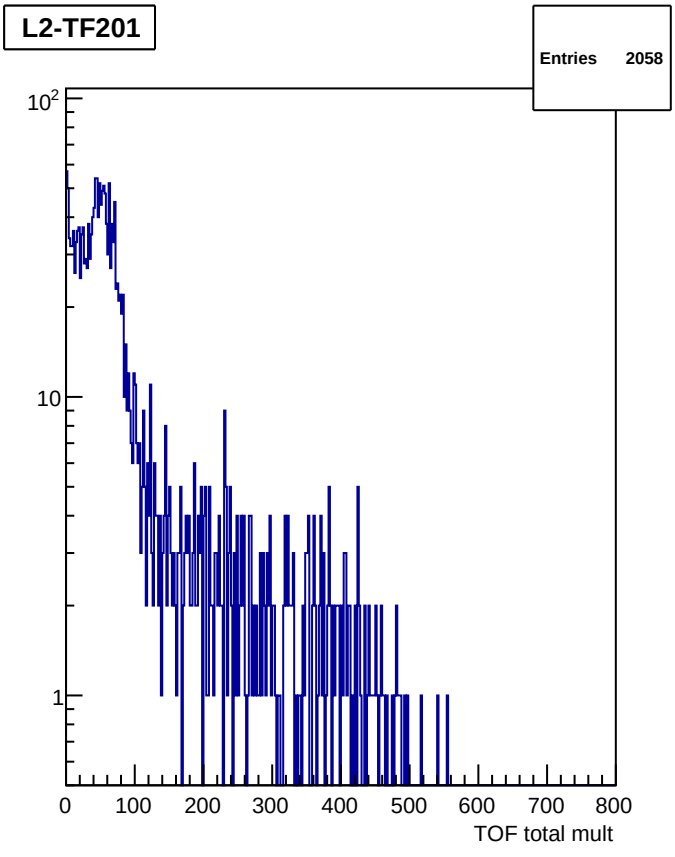

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

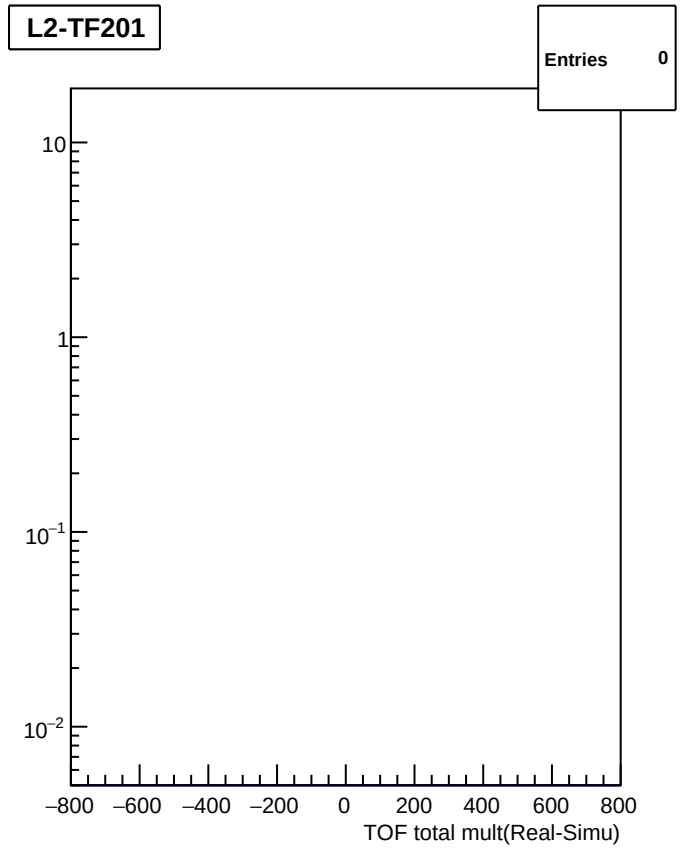

MIX-TF101
Entries 12348
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

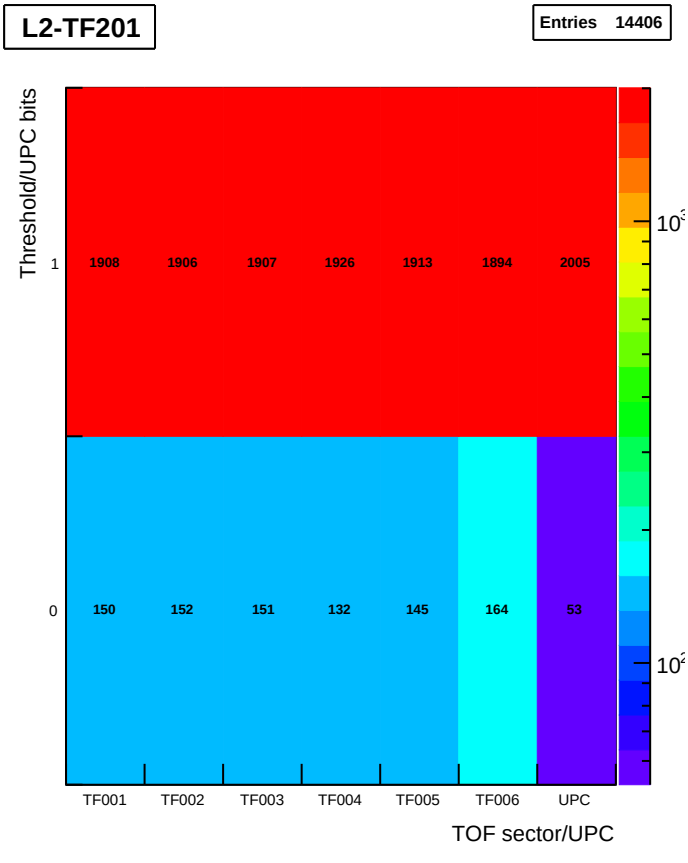

MIX-TF101
Entries 546
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

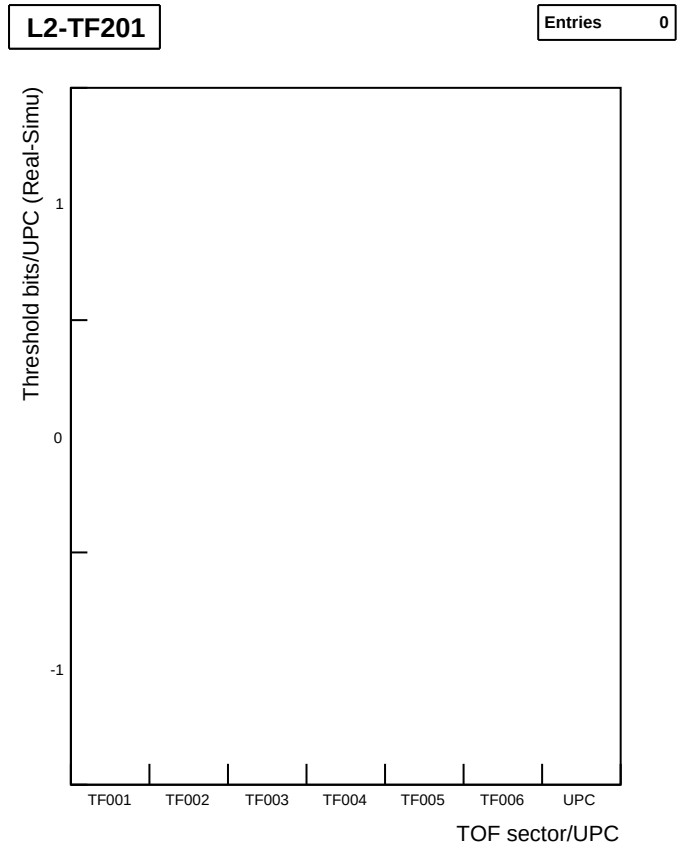

MIX-TF101
Entries 12348
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

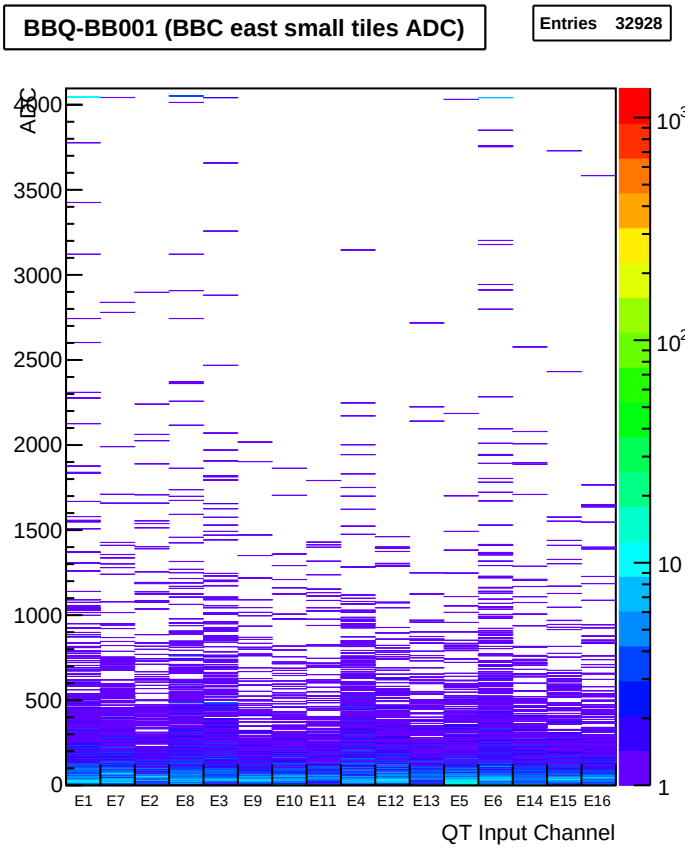

MIX-TF101
Entries 1240
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

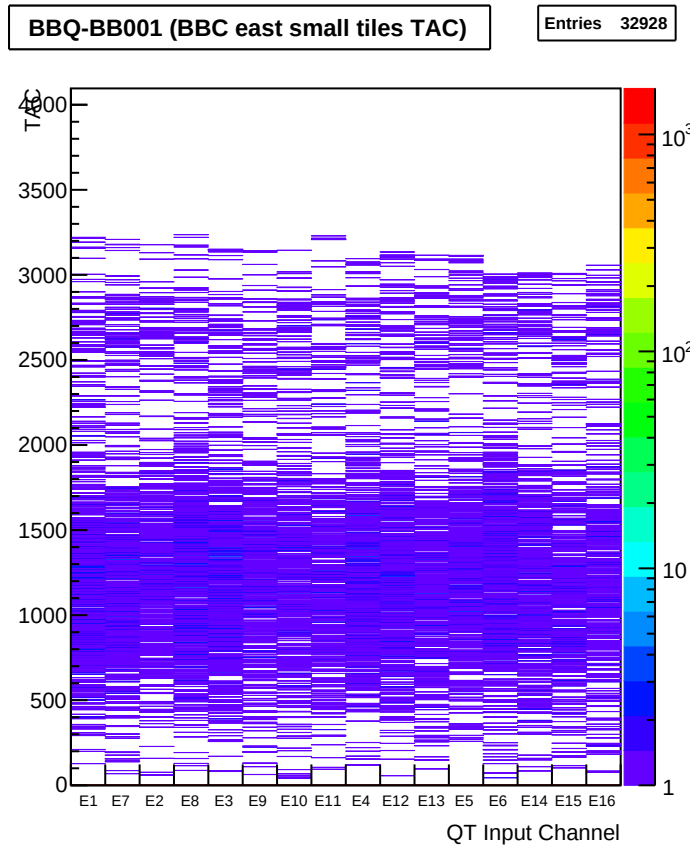

L2-TF201
Entries 2058
TOF total mult

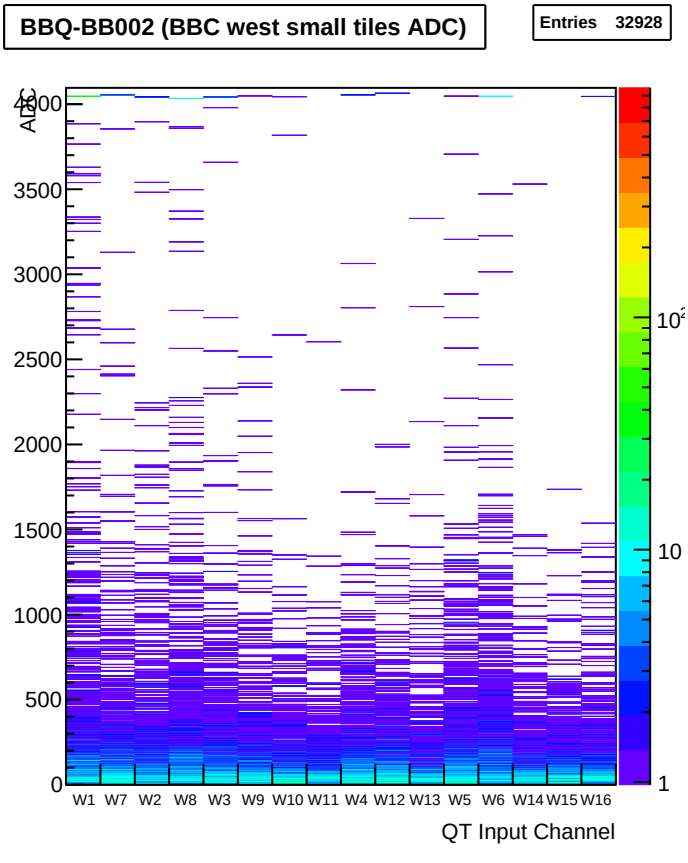

L2-TF201
Entries 0
TOF total mult(Real-Simu)

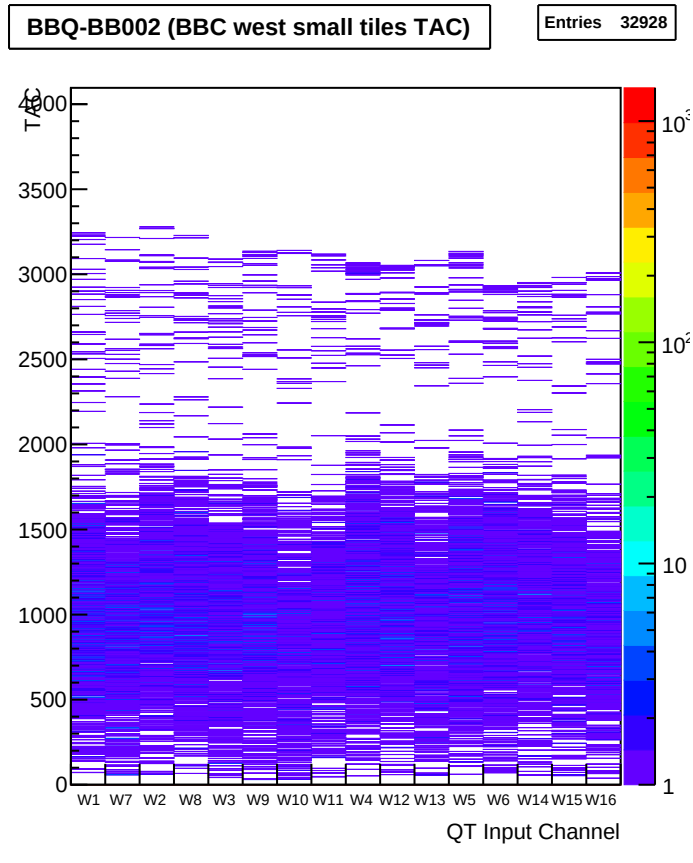

L2-TF201
Entries 14406
Threshold/UPC bits
1908 1906 1907 1926 1913 1894 2005
150 152 151 132 145 164 53
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

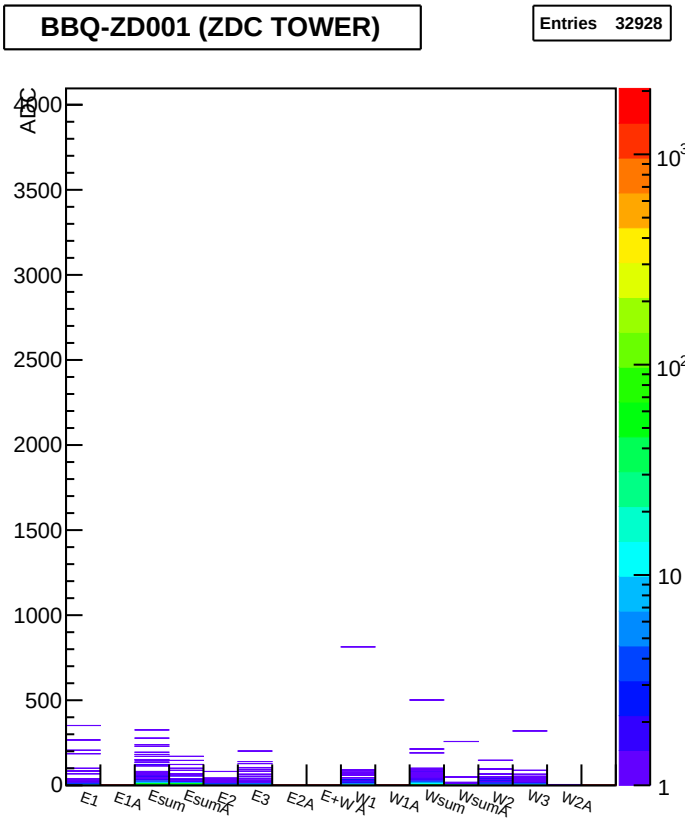

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

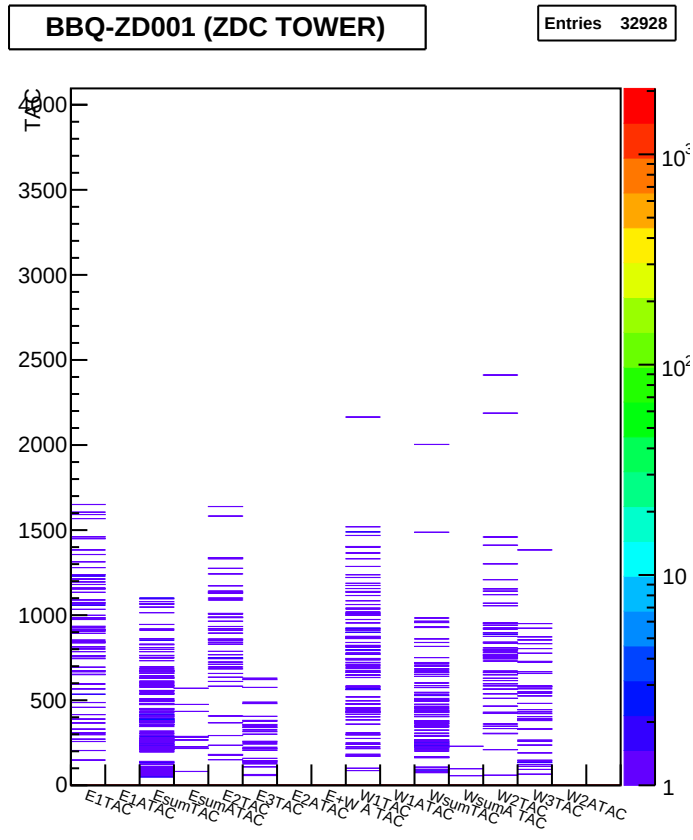

BBQ-BB001 (BBC east small tiles ADC)
Entries 32928
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

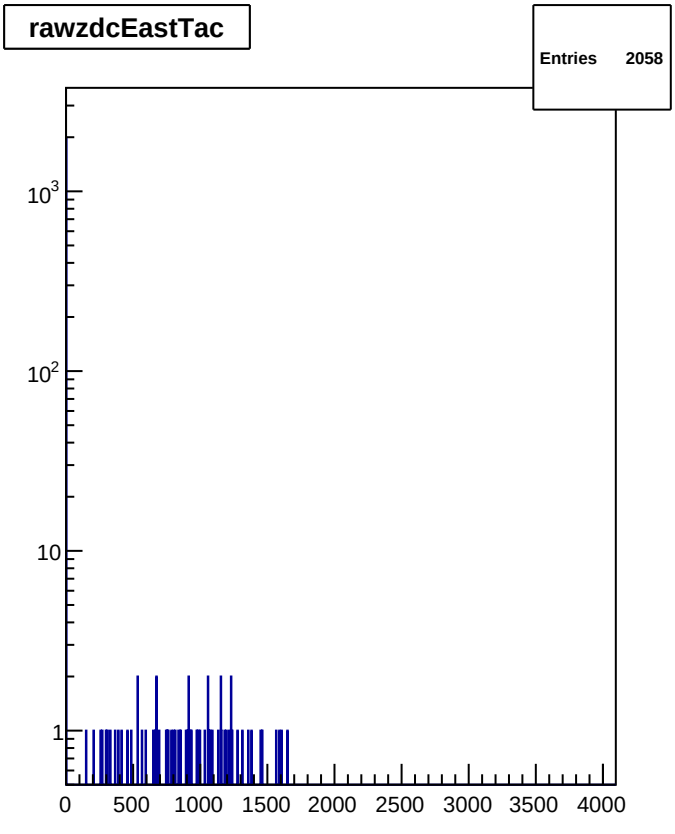

BBQ-BB001 (BBC east small tiles TAC)
Entries 32928
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

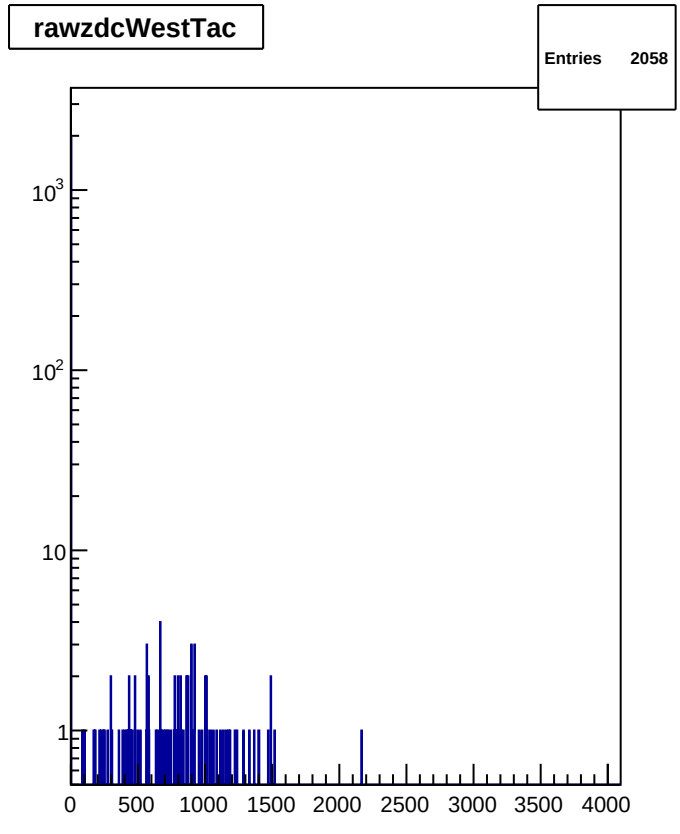

BBQ-BB002 (BBC west small tiles ADC)
Entries 32928
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

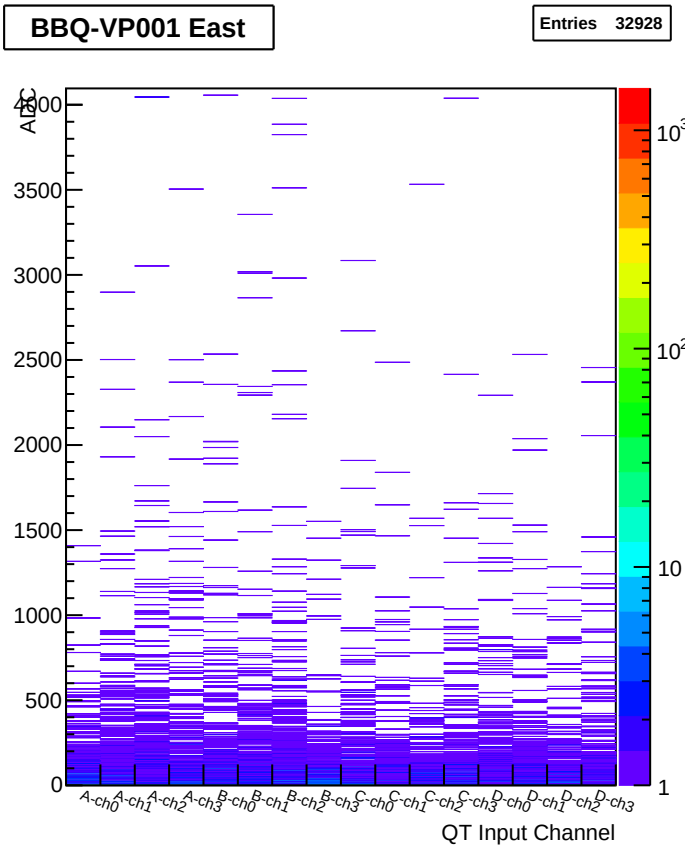

BBQ-BB002 (BBC west small tiles TAC)
Entries 32928
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

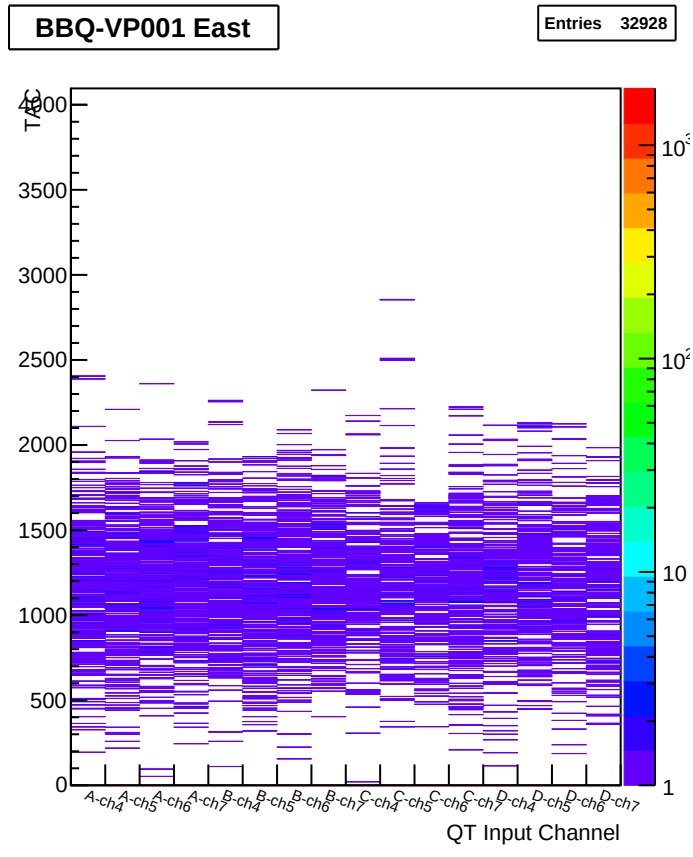

BBQ-ZD001 (ZDC TOWER)
Entries 32928
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1A
W1A
Wsum
WsumA
W2
W3
W2A
10³
10²
10
1

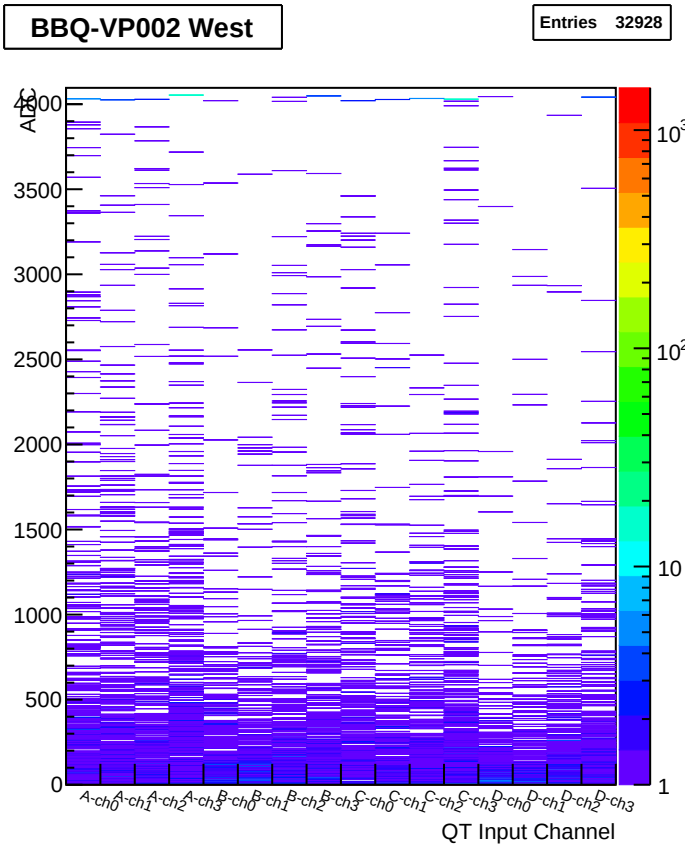

BBQ-ZD001 (ZDC TOWER)
Entries 32928
TAC
4000
3500
3000
2500
2000
1500
1000
500
0
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC
10³
10²
10
1

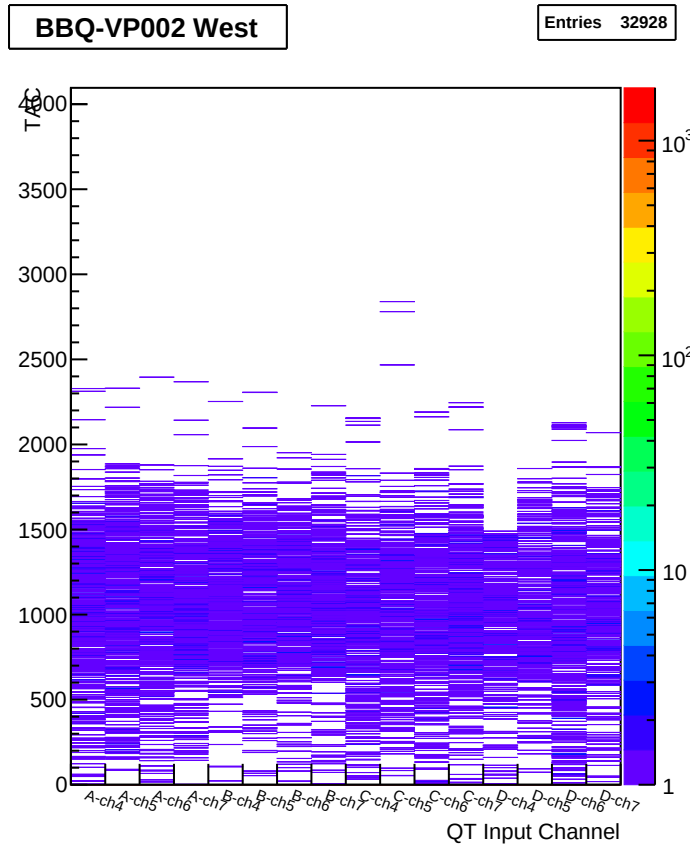

rawzdcEastTac
Entries 2058
10³
10²
10
1
0
500
1000
1500
2000
2500
3000
3500
4000

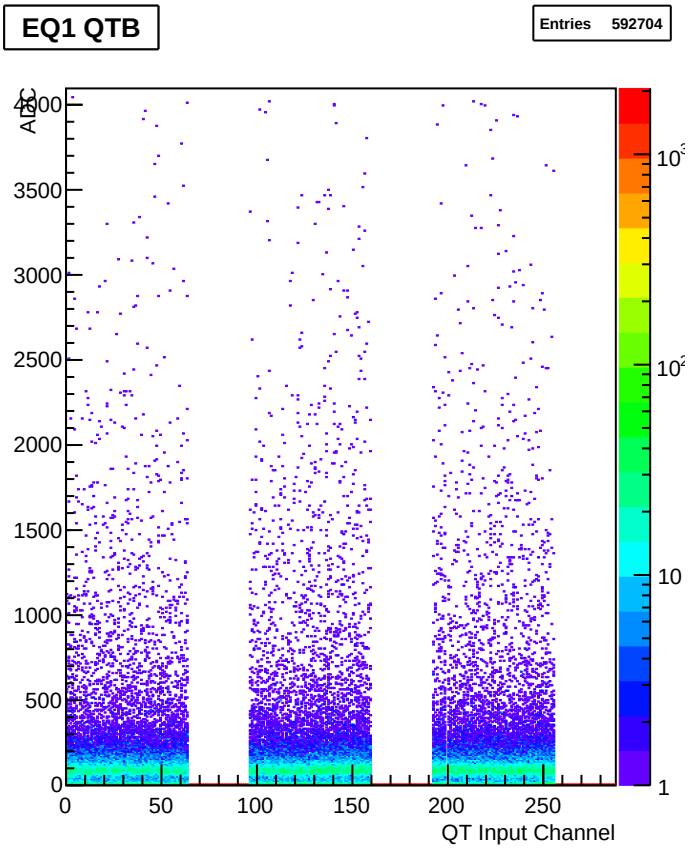

rawzdcWestTac
Entries 2058
10³
10²
10
1
0
500
1000
1500
2000
2500
3000
3500
4000

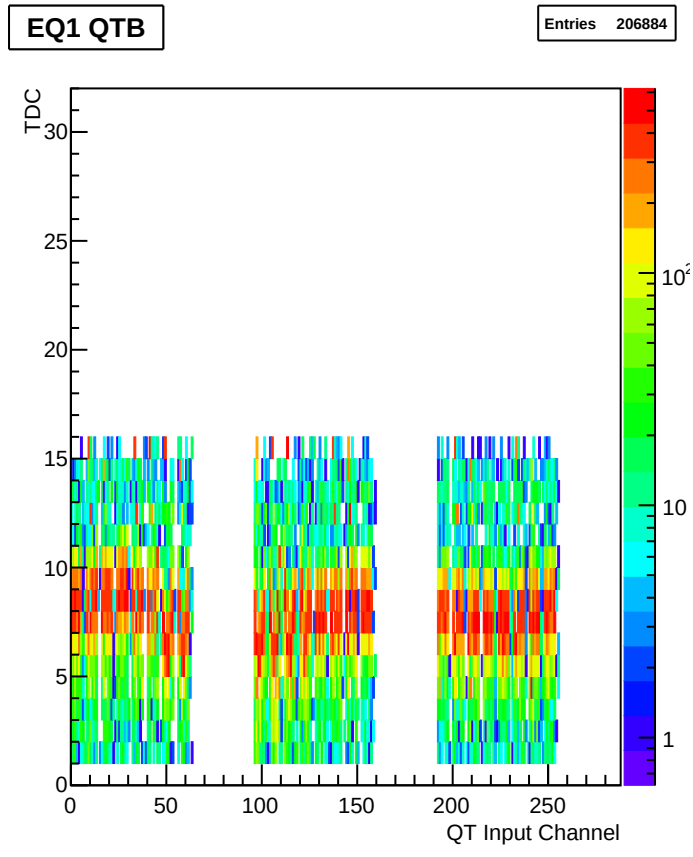

BBQ-VP001 East
Entries 32928
ADC
QT Input Channel

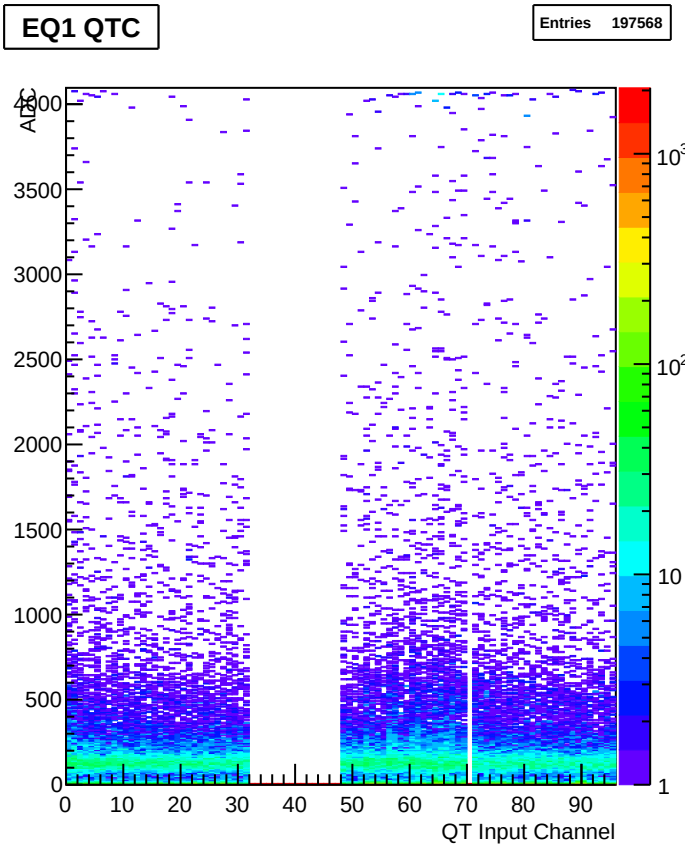

BBQ-VP001 East
Entries 32928
TAC
QT Input Channel

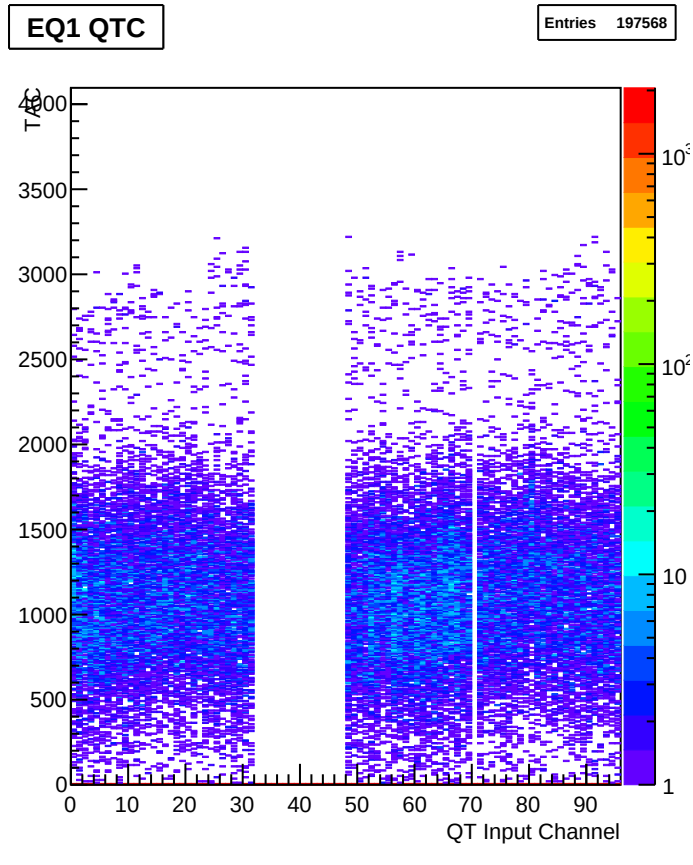

BBQ-VP002 West
Entries 32928
ADC
QT Input Channel

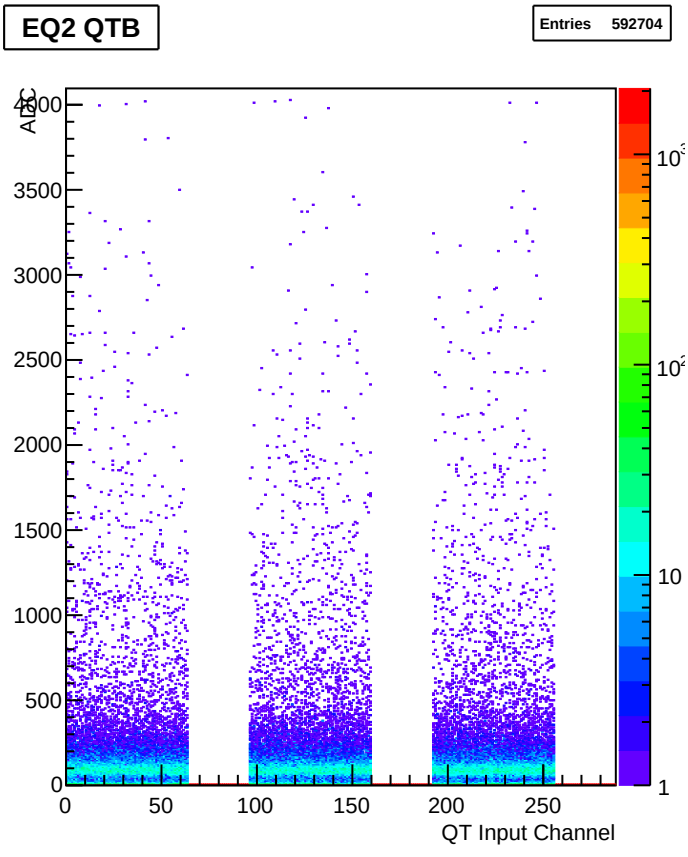

BBQ-VP002 West
Entries 32928
TAC
QT Input Channel

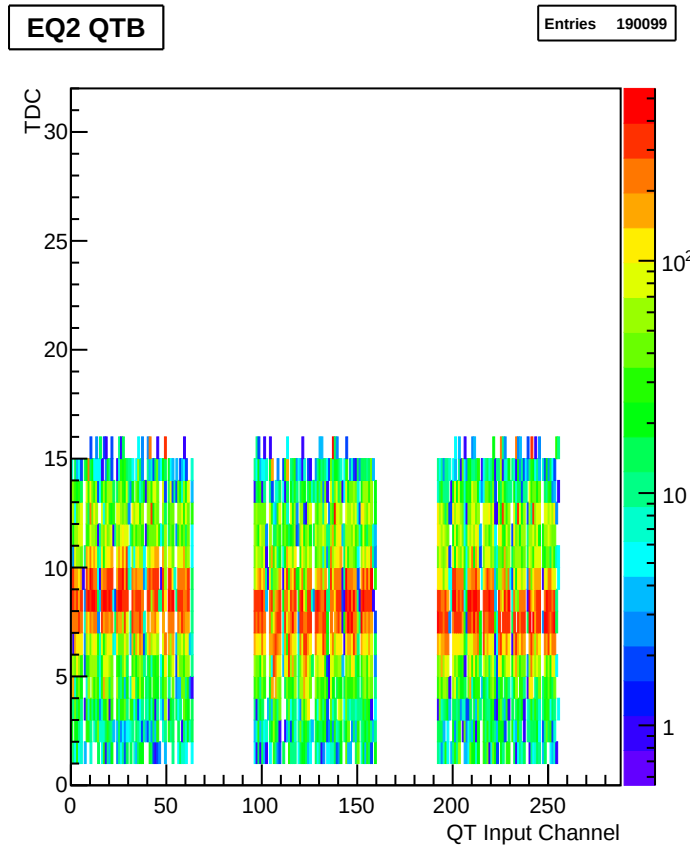

EQ1 QTB
Entries 592704
ADC
QT Input Channel

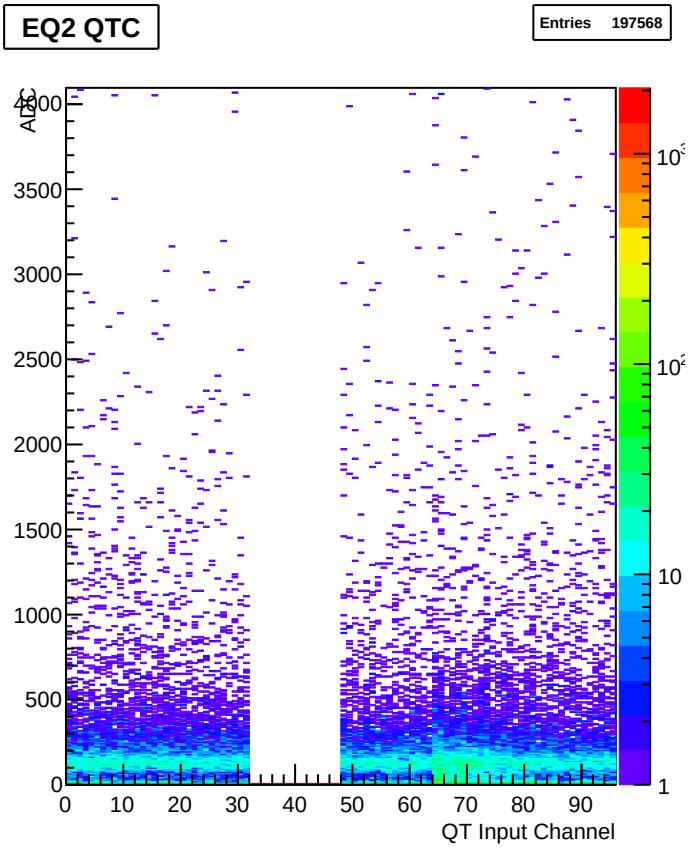

EQ1 QTB
Entries 206884
TDC
QT Input Channel

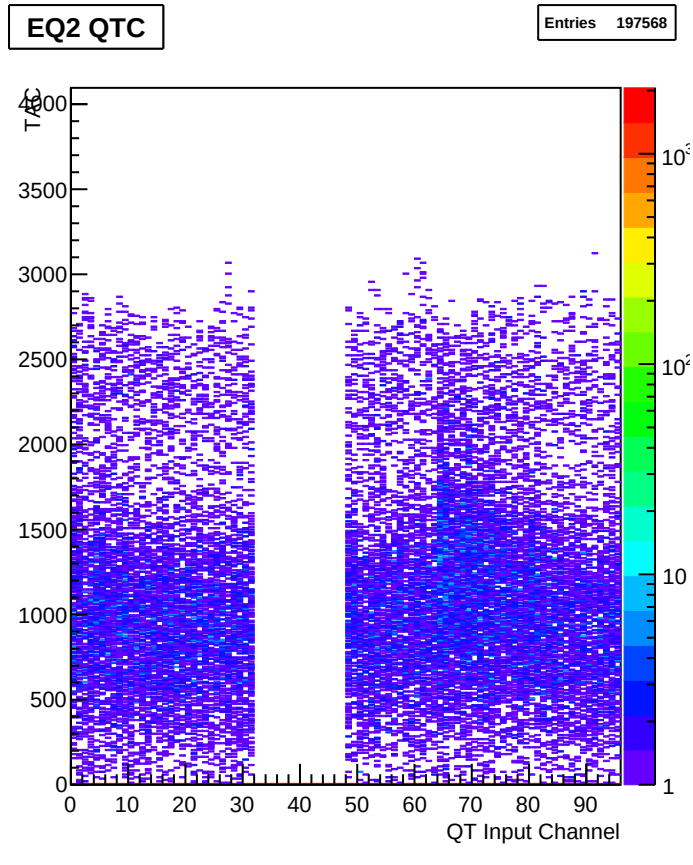

EQ1 QTC
Entries 197568
ADC
QT Input Channel

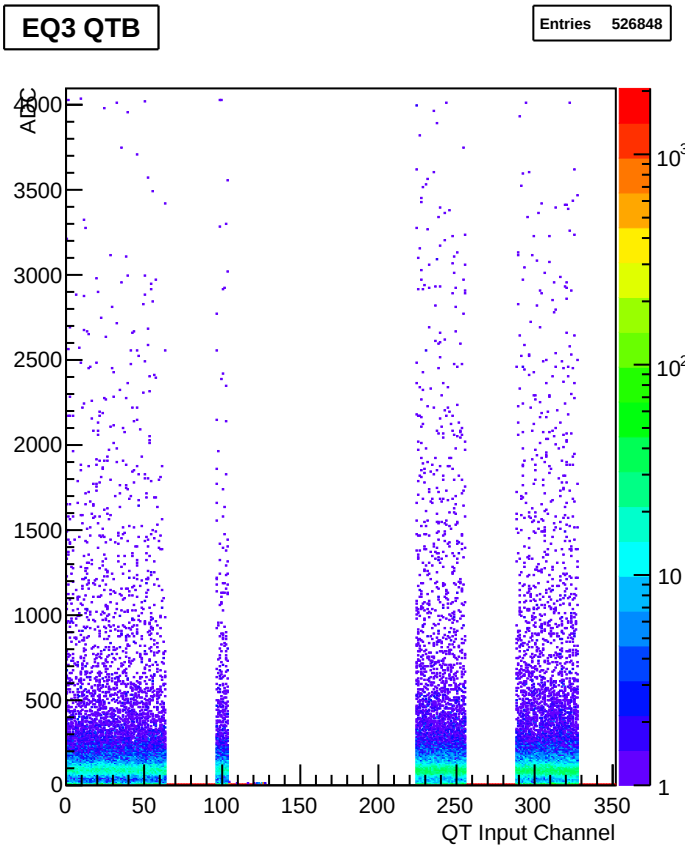

EQ1 QTC
Entries 197568
TADC
QT Input Channel

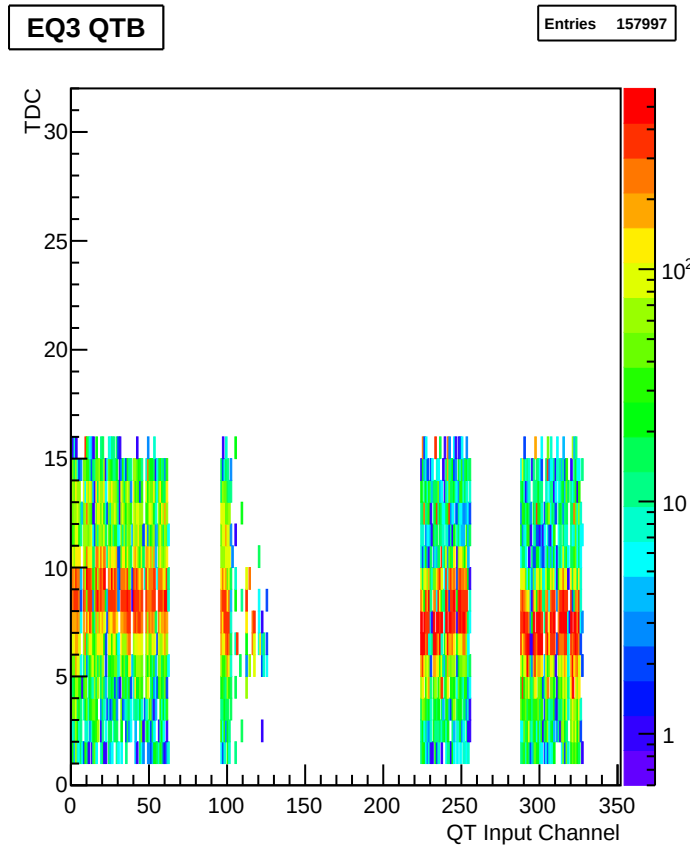

EQ2 QTB
Entries 592704
ADC
QT Input Channel

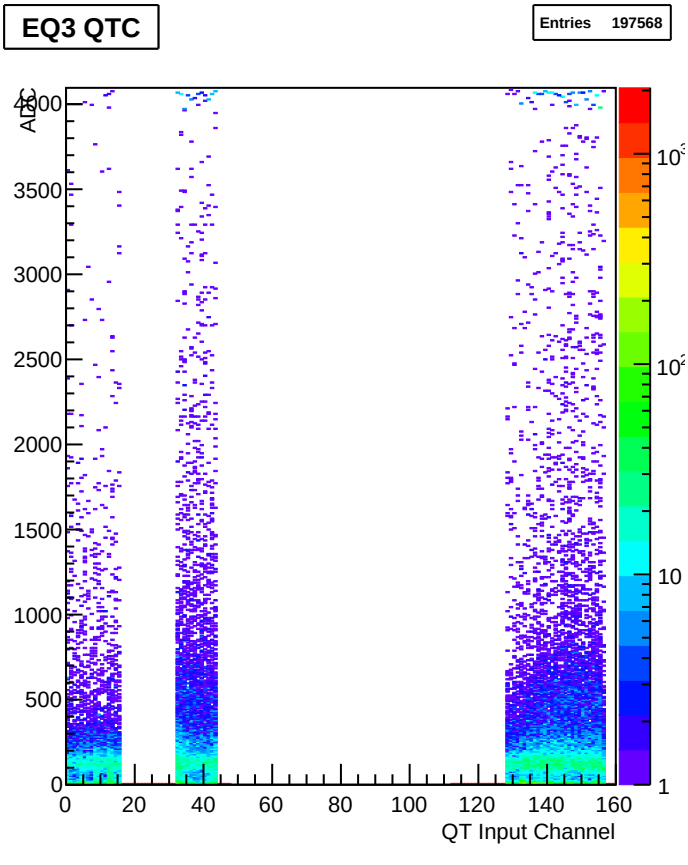

EQ2 QTB
Entries 190099
TDC
QT Input Channel

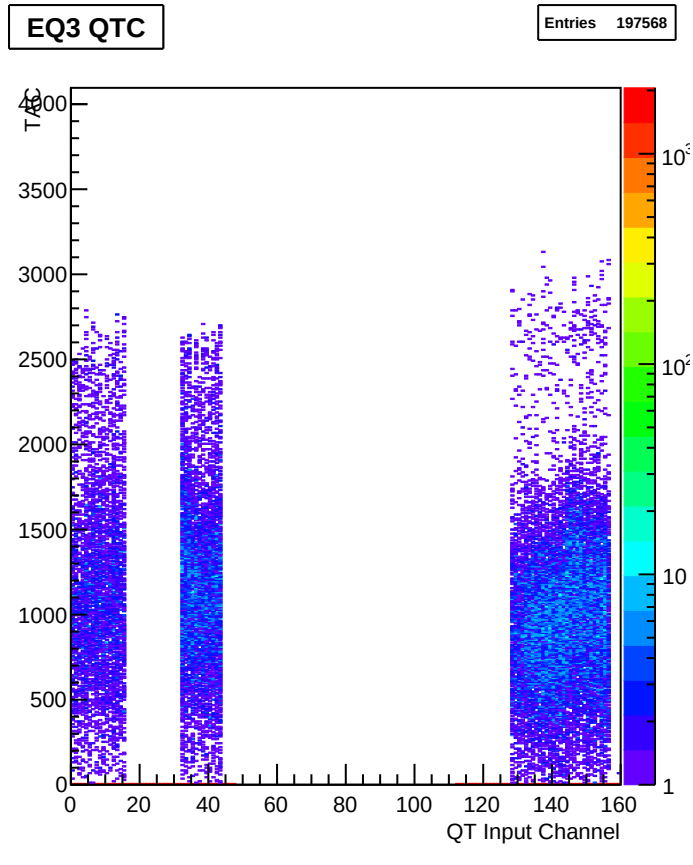

EQ2 QTC
Entries 197568
ADC
QT Input Channel

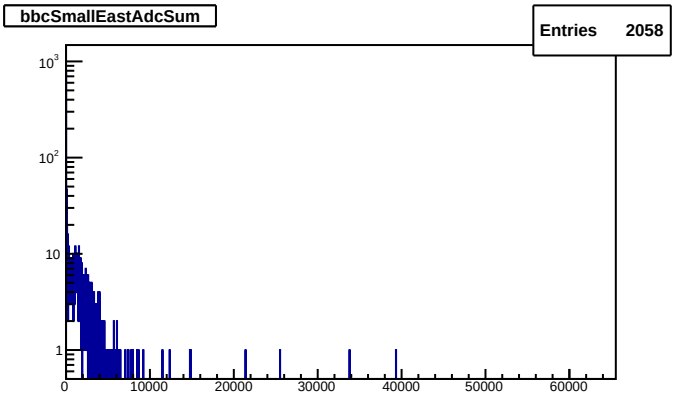

EQ2 QTC
Entries 197568
TADC
QT Input Channel

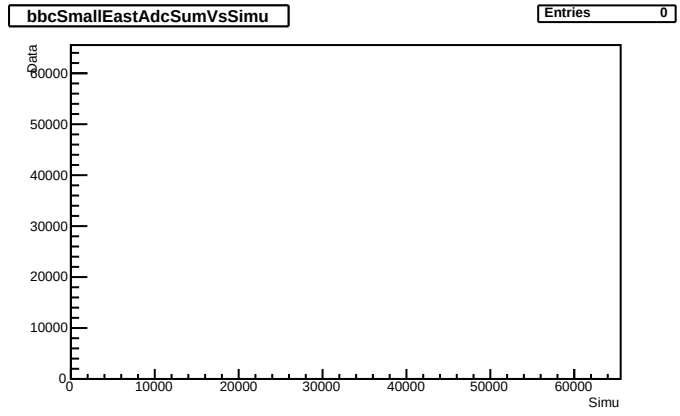

EQ3 QTB
Entries 526848
ADC
QT Input Channel

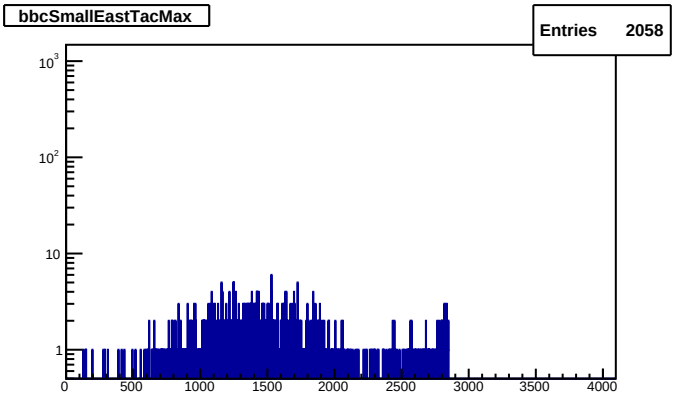

EQ3 QTB
Entries 157997
TDC
QT Input Channel

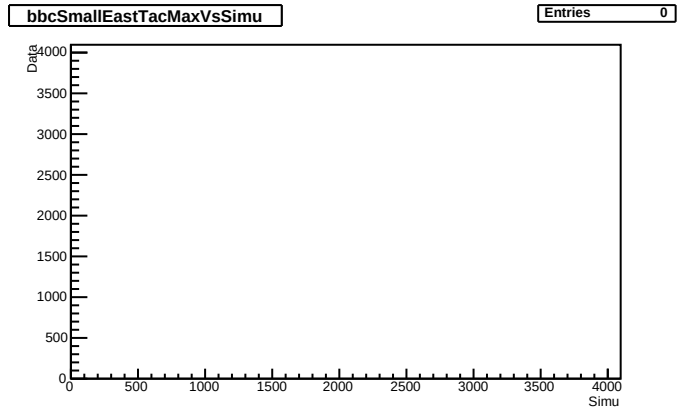

EQ3 QTC
Entries 197568
ADC
QT Input Channel

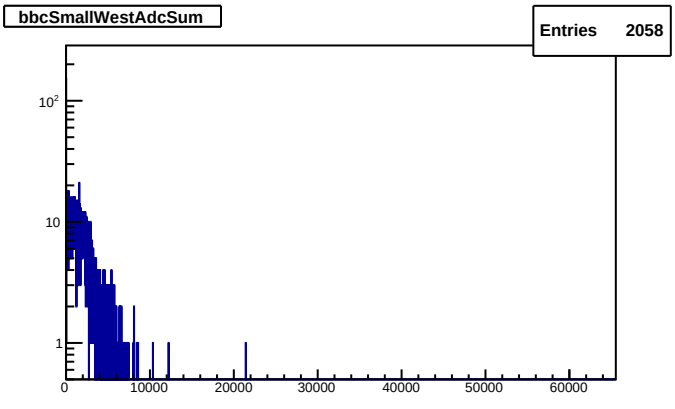

EQ3 QTC
Entries 197568
TADC
QT Input Channel

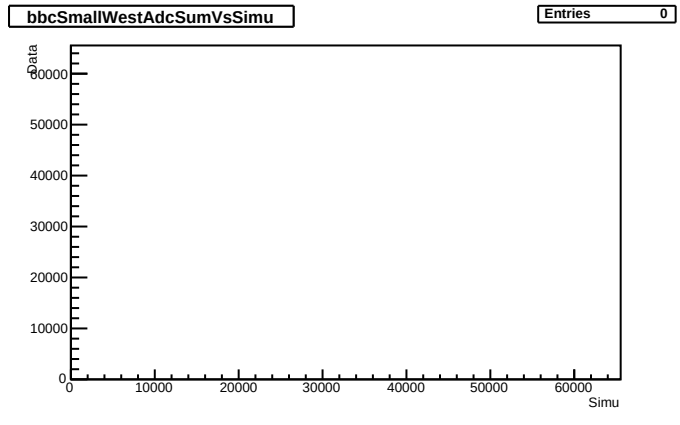

bbcSmallEastAdcSum
Entries 2058

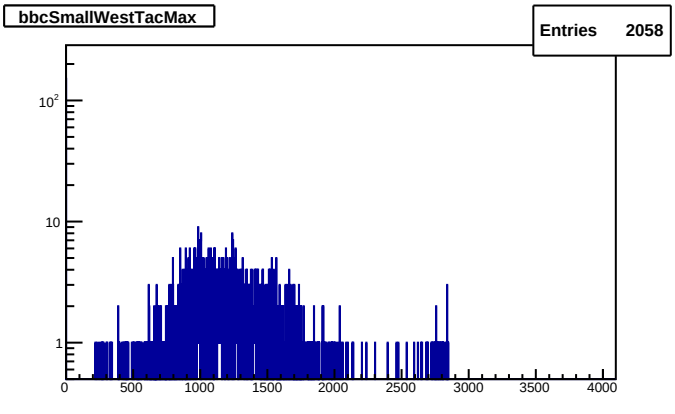

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

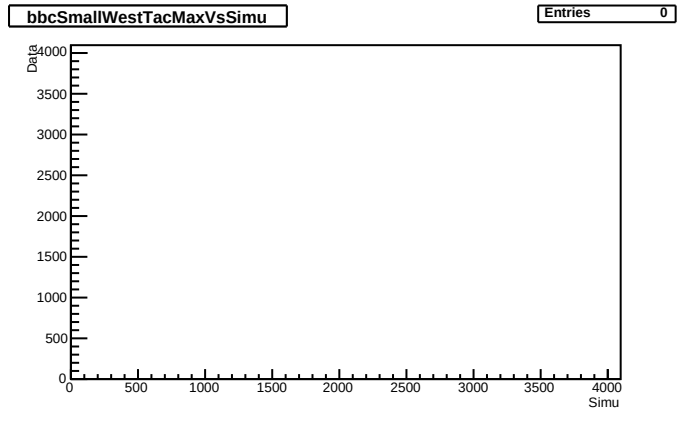

bbcSmallEastTacMax
Entries 2058

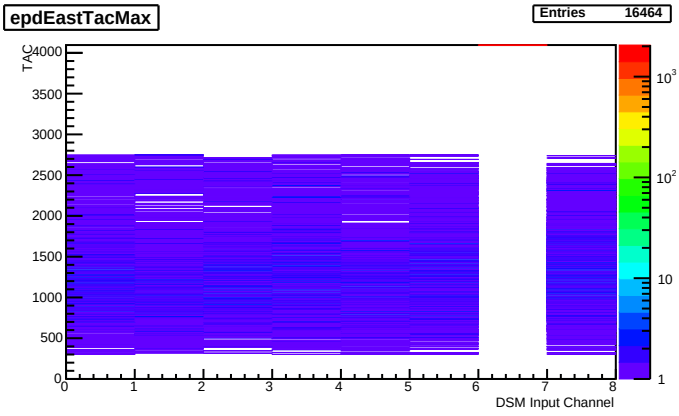

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

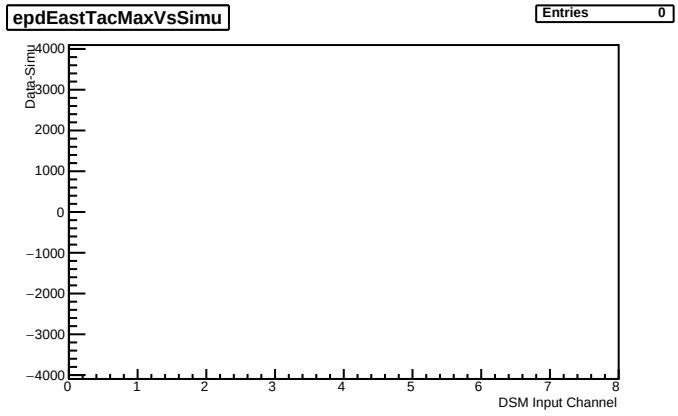

bbcSmallWestAdcSum
Entries 2058

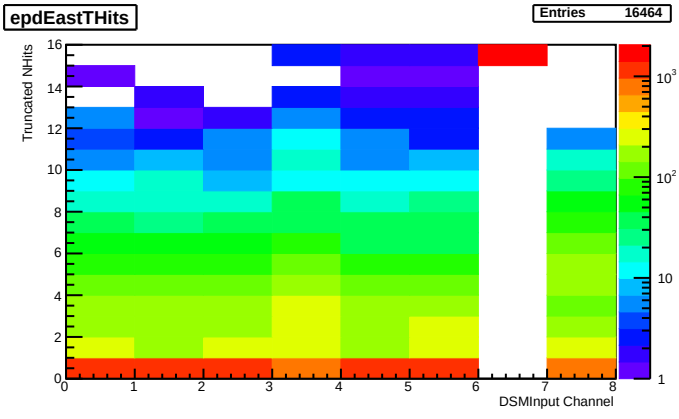

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

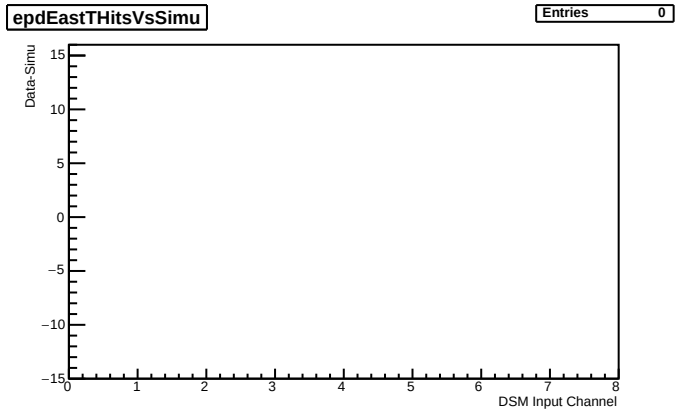

bbcSmallWestTacMax
Entries 2058

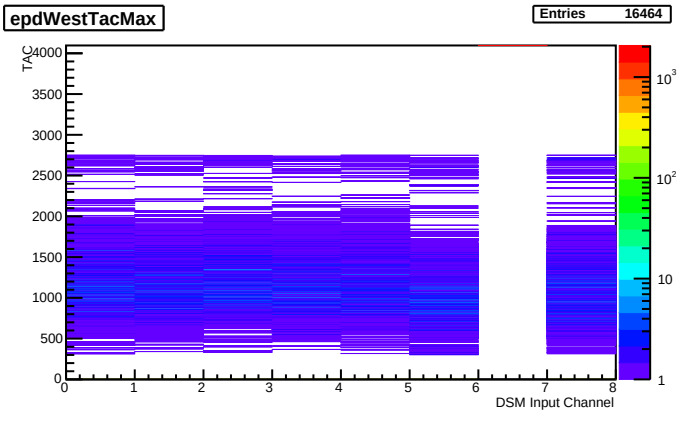

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

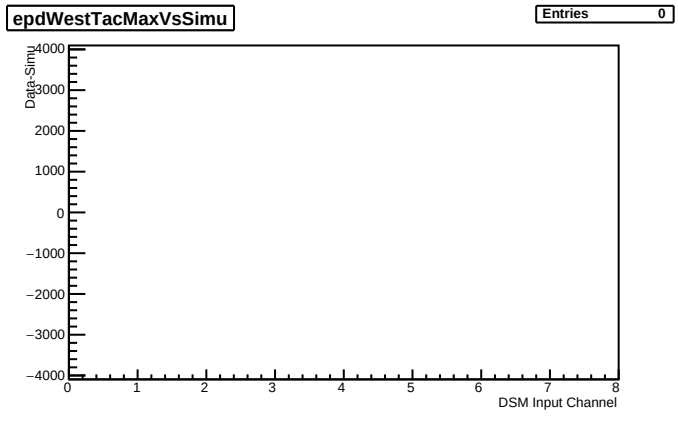

epdEastTacMax
Entries 16464
TAC
DSM Input Channel

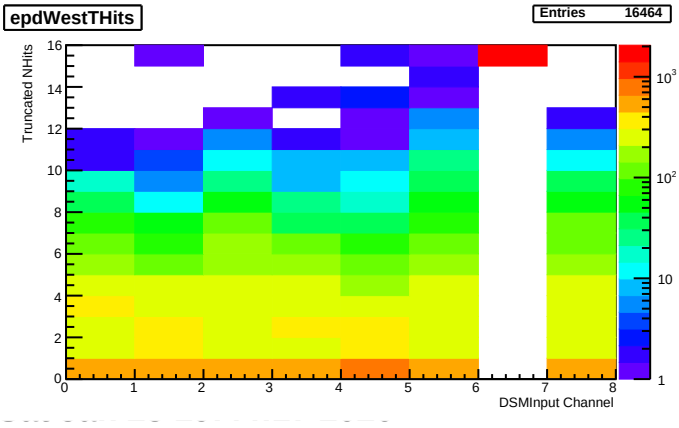

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

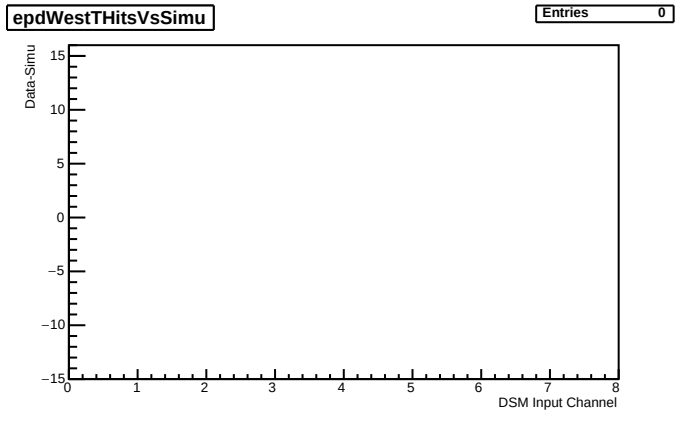

epdEastTHits
Entries 16464
Truncated NHits
DSMInput Channel

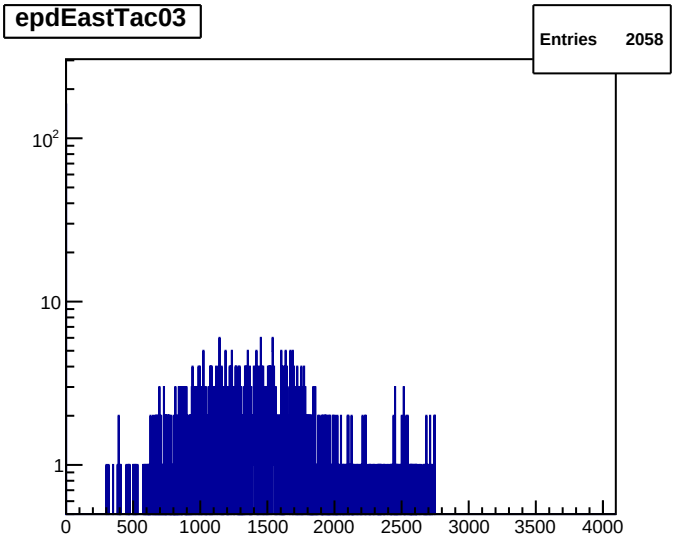

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

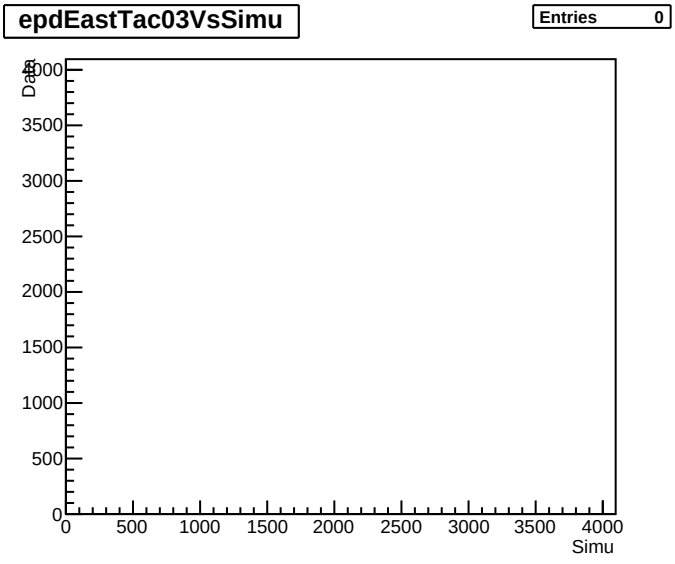

epdWestTacMax
Entries 16464
TAC
DSM Input Channel

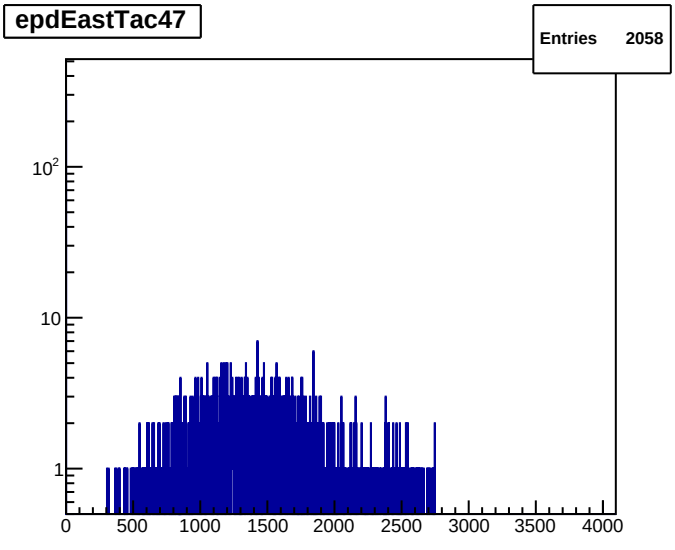

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 16464
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 2058
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 2058
10^2
10
1
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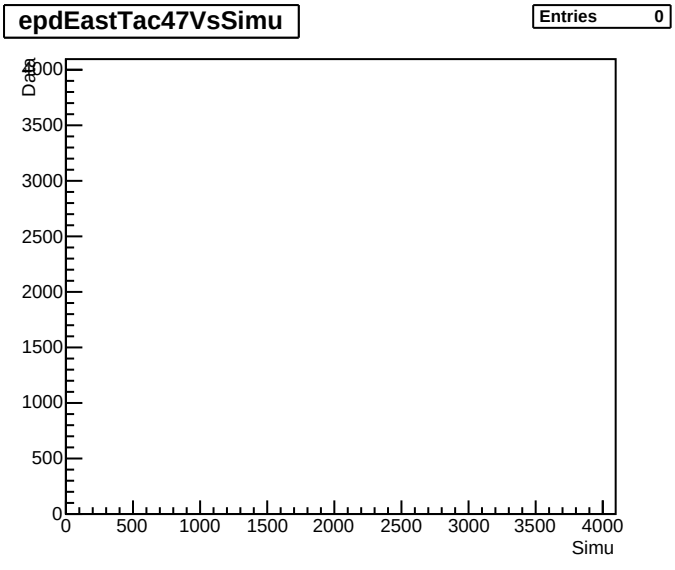
epdEastTac47VsSimu
Entries 0
Data
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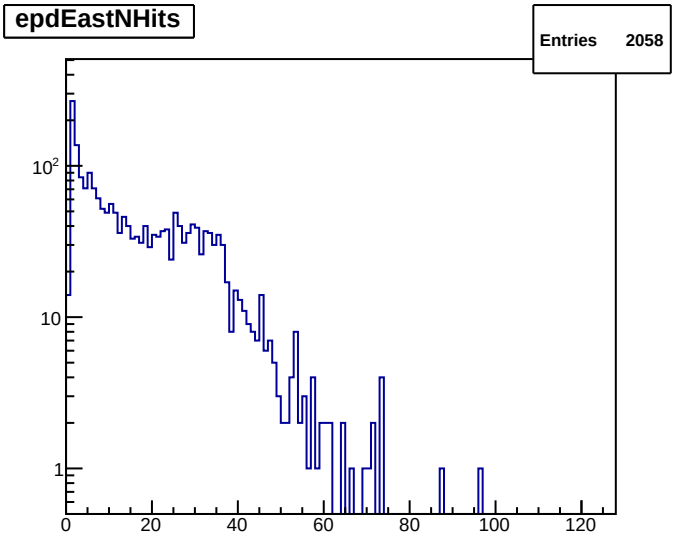
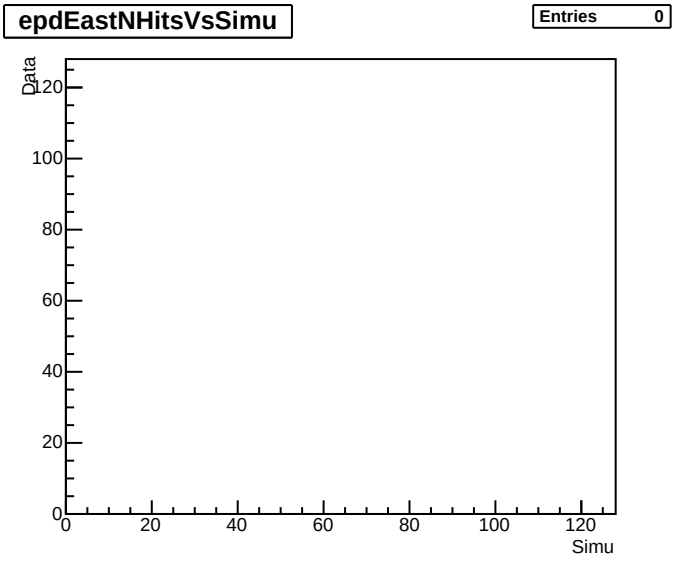
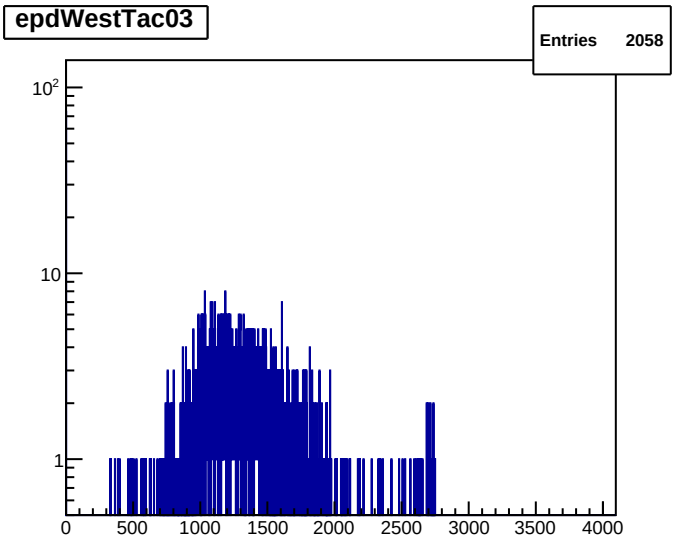
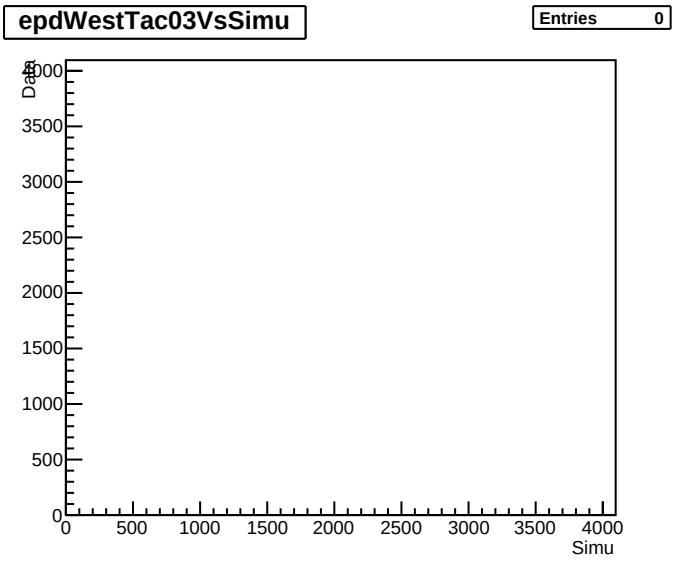
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastNHits
Entries 2058
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 2058
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000


epdWestTac03VsSimu
Entries 0
Data
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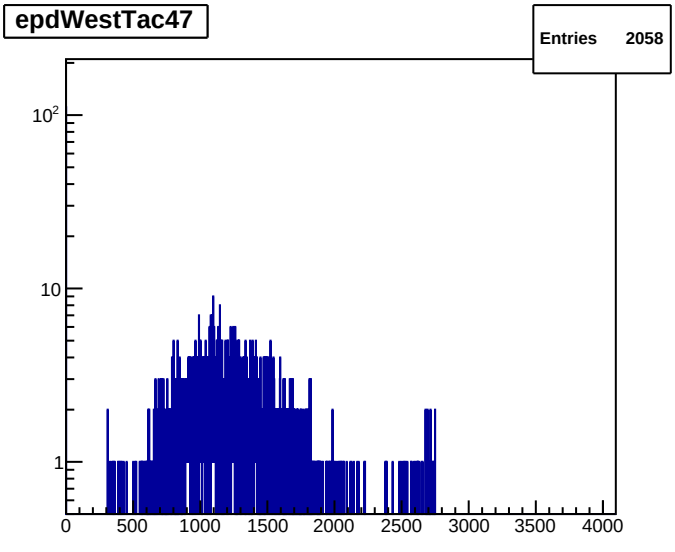
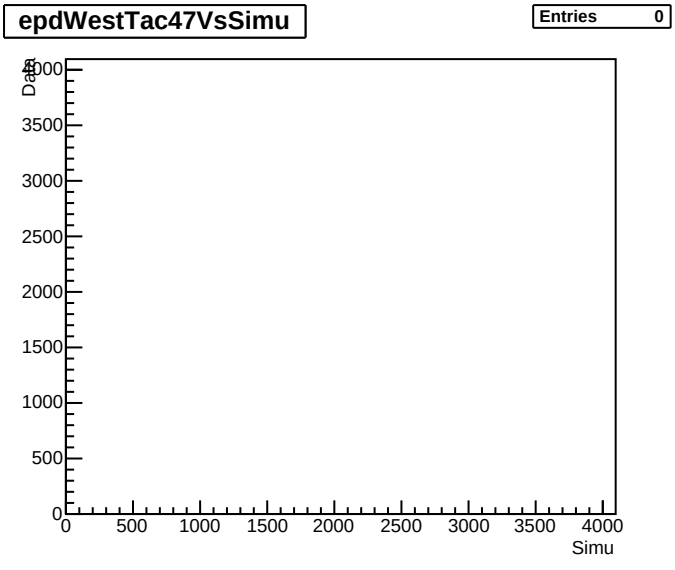
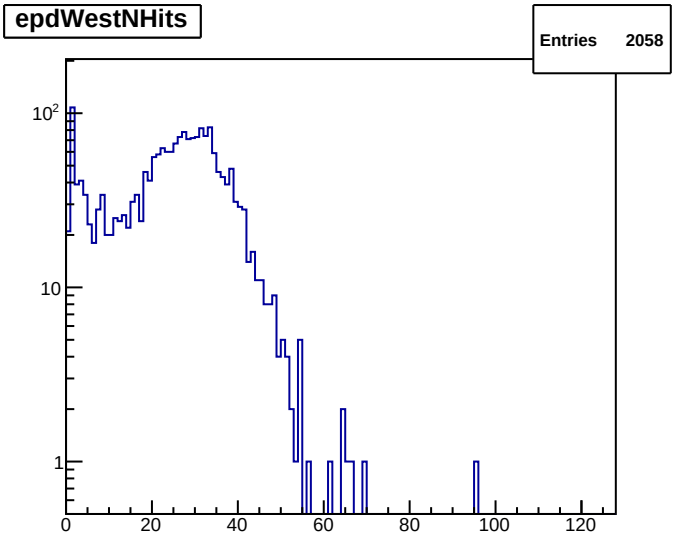
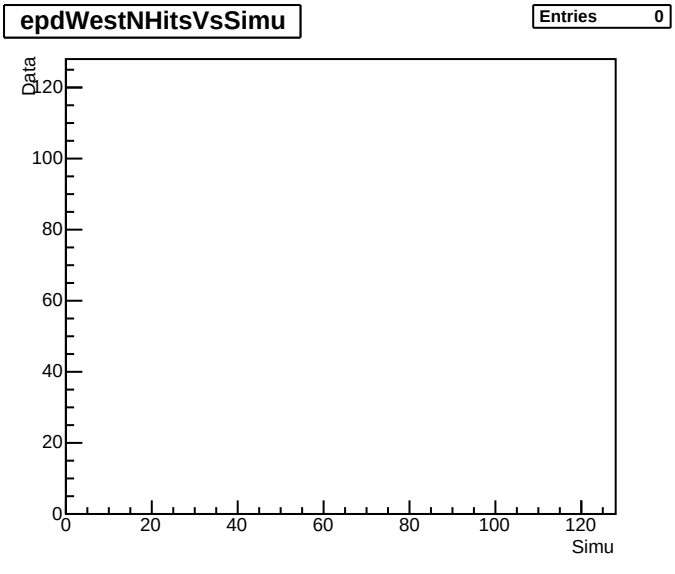
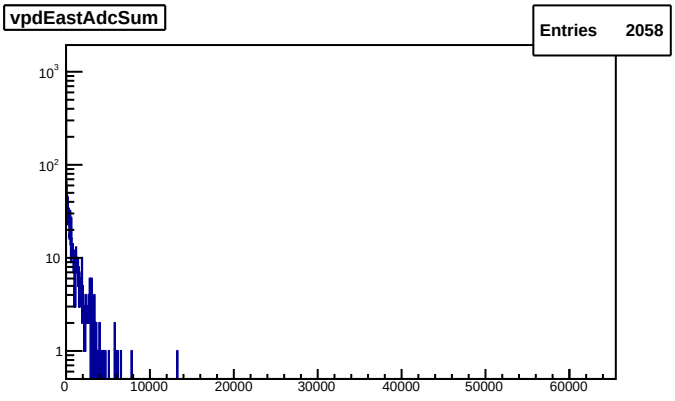
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

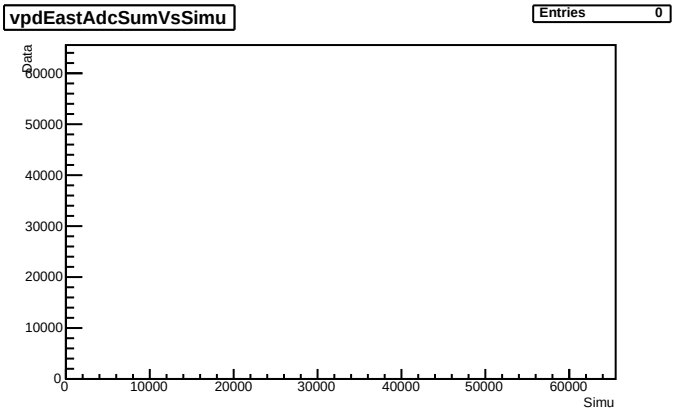

epdWestTac47
Entries 2058
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

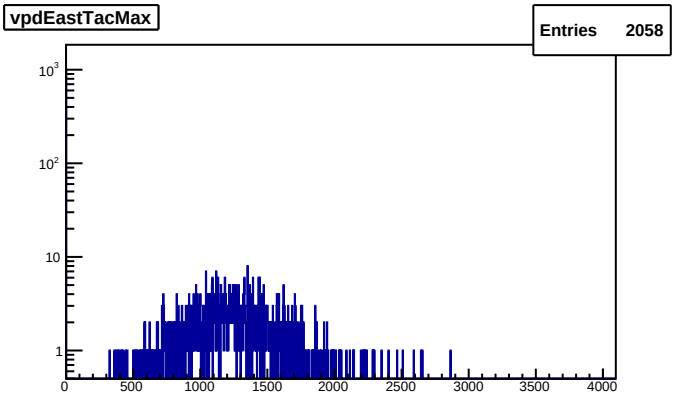

epdWestTac47VsSimu
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

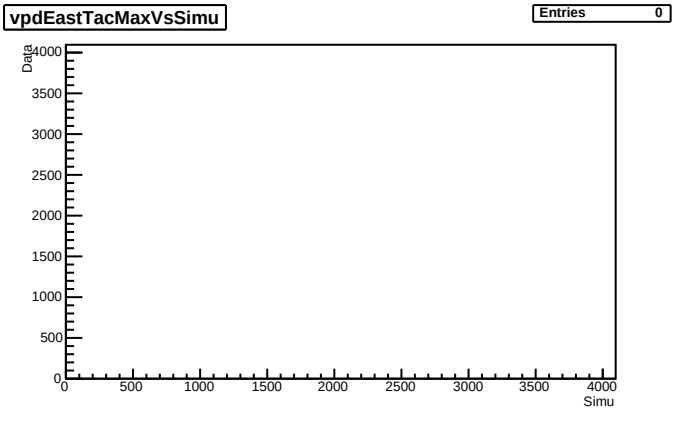

epdWestNHits
Entries 2058
10^2
10
1
0 20 40 60 80 100 120

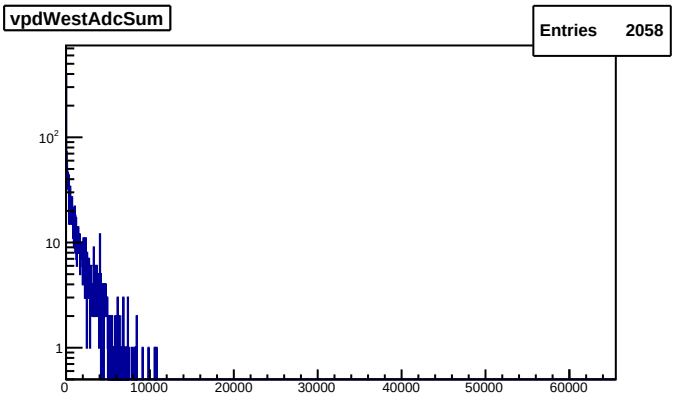

epdWestNHitsVsSimu
Entries 0
Data
120 100 80 60 40 20 0
0 20 40 60 80 100 120
Simu

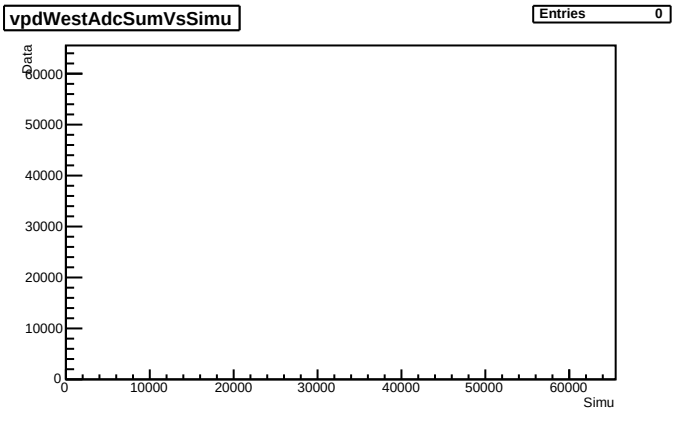

vpdEastAdcSum
Entries 2058

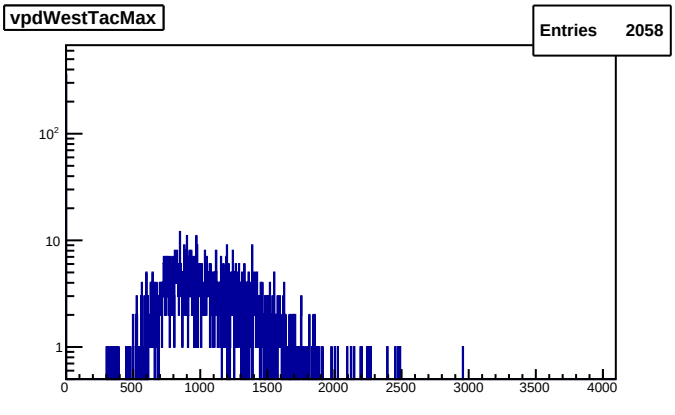

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

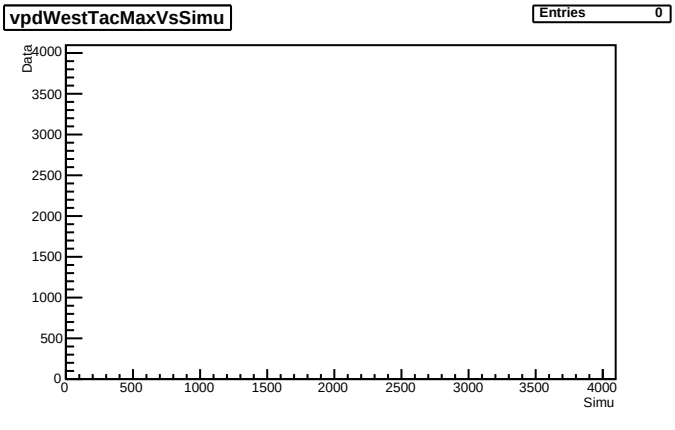

vpdEastTacMax
Entries 2058

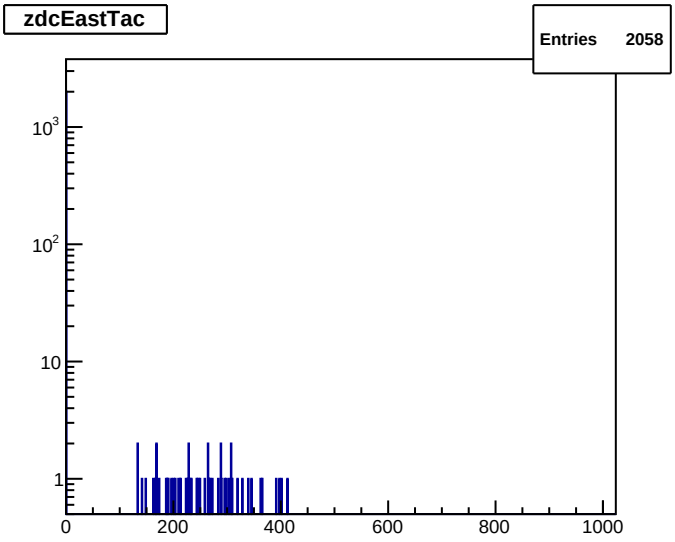

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

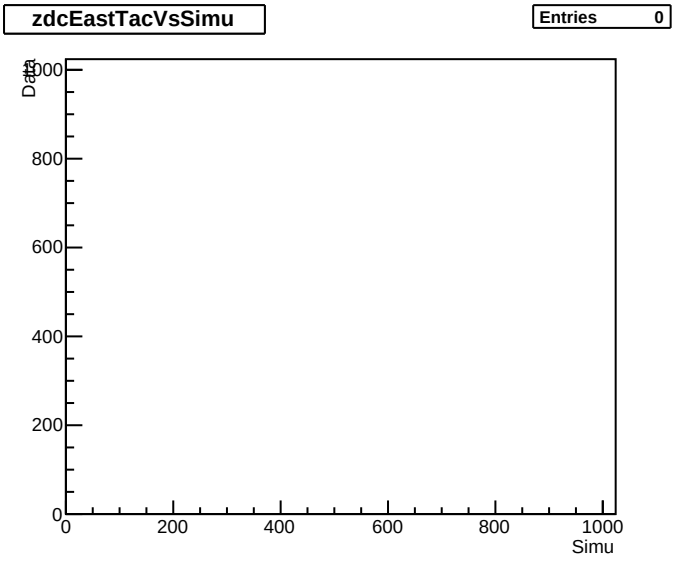

vpdWestAdcSum
Entries 2058

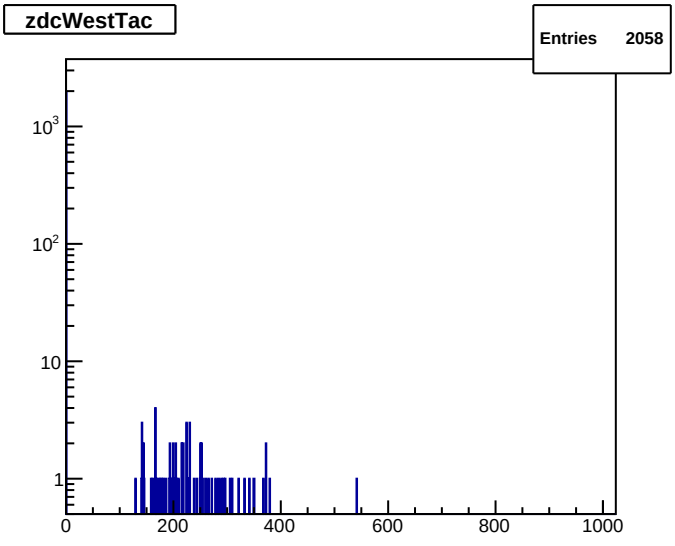

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

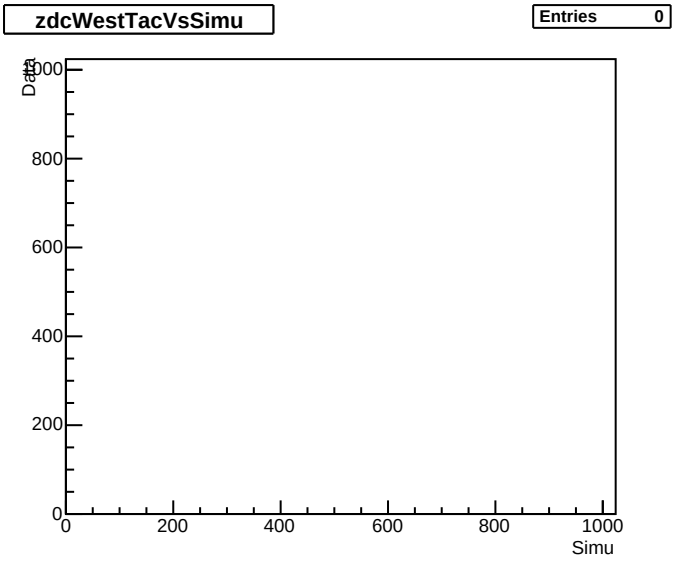

vpdWestTacMax
Entries 2058

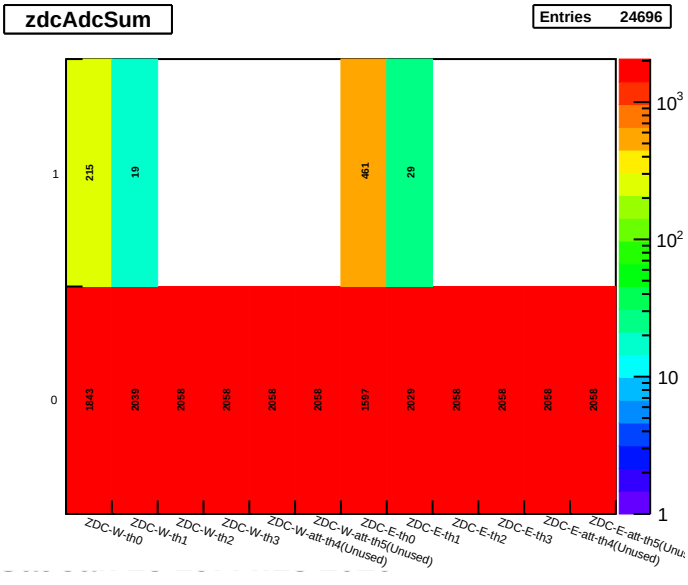

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

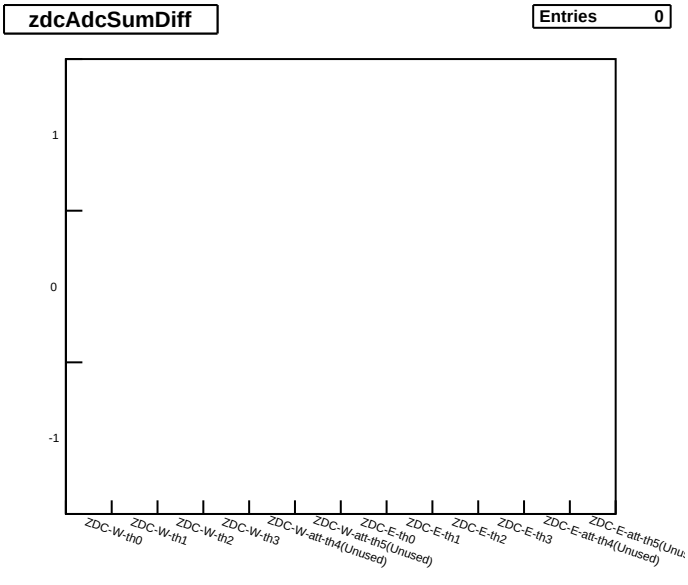

zdcEastTac
Entries 2058
10^3
10^2
10
1
0
200
400
600
800
1000

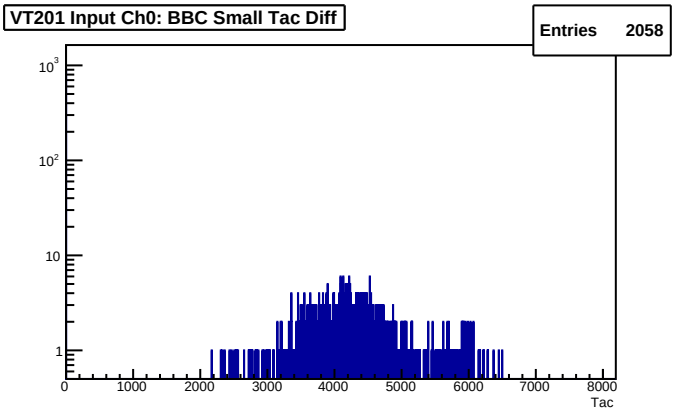

zdcEastTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

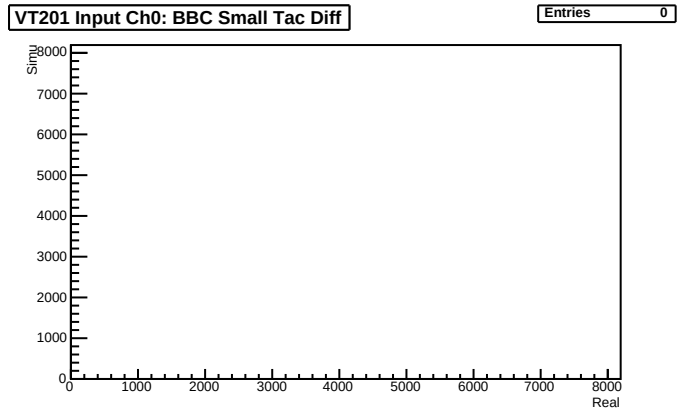

zdcWestTac
Entries 2058
10^3
10^2
10
1
0
200
400
600
800
1000

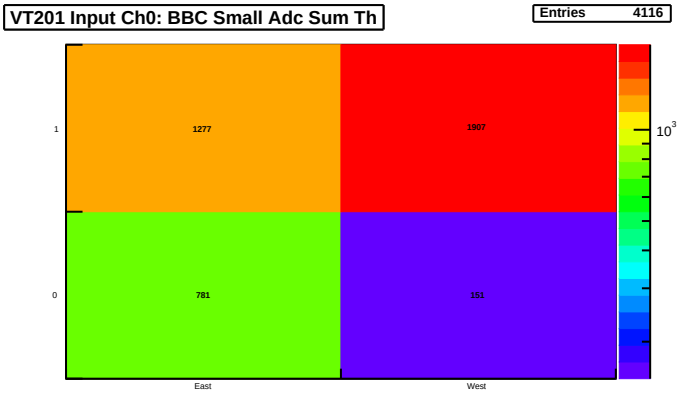

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

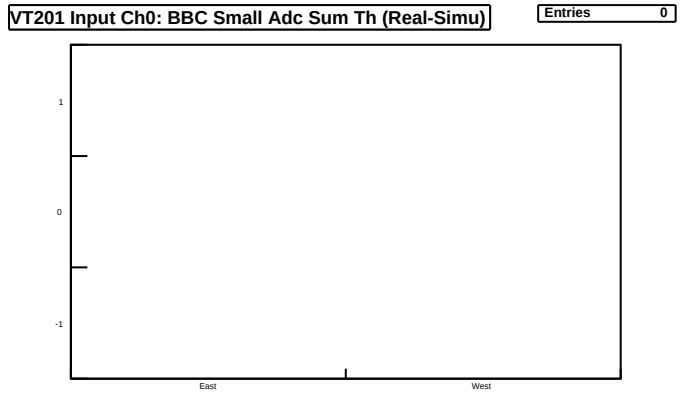

zdcAdcSum
Entries 24696
1
0
215
19
461
29
1843
2039
2058
2058
2058
2058
1597
2029
2058
2058
2058
2058
10^3
10^2
10
1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

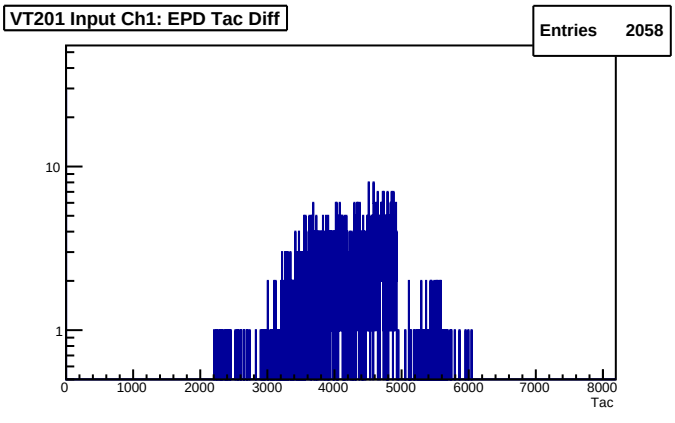

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

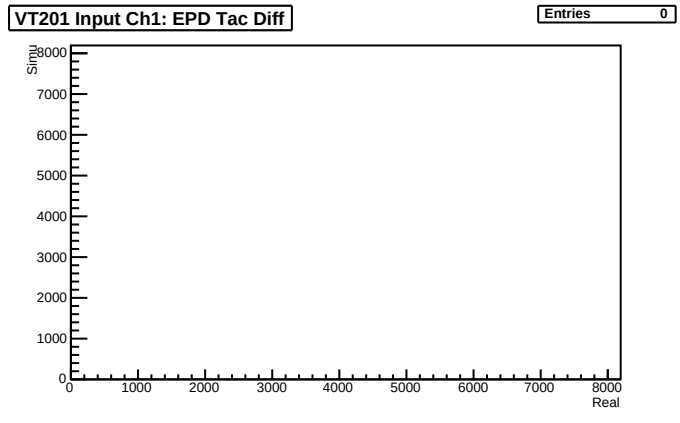

VT201 Input Ch0: BBC Small Tac Diff
Entries 2058
Tac

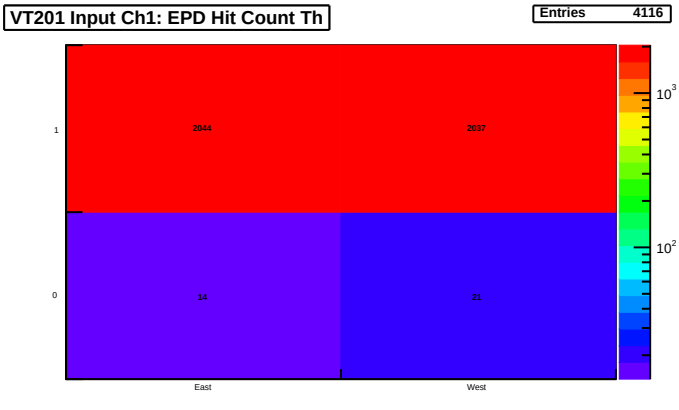

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

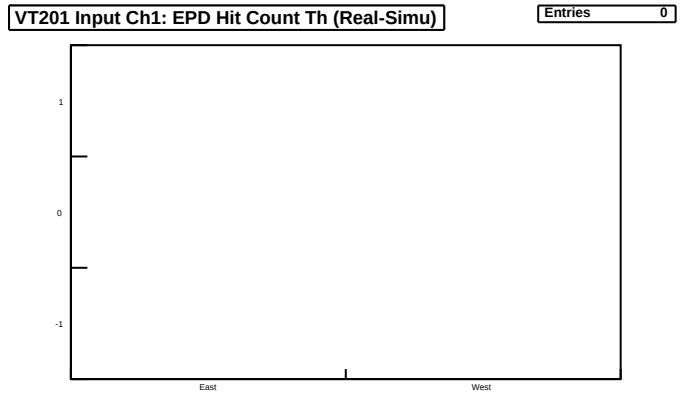

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 4116
1277
1907
781
151
East
West

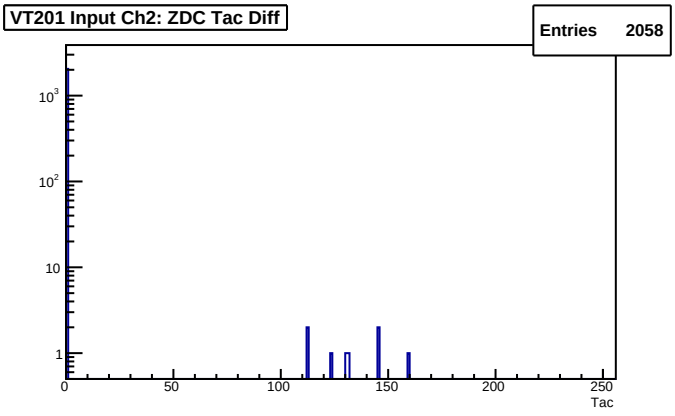

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

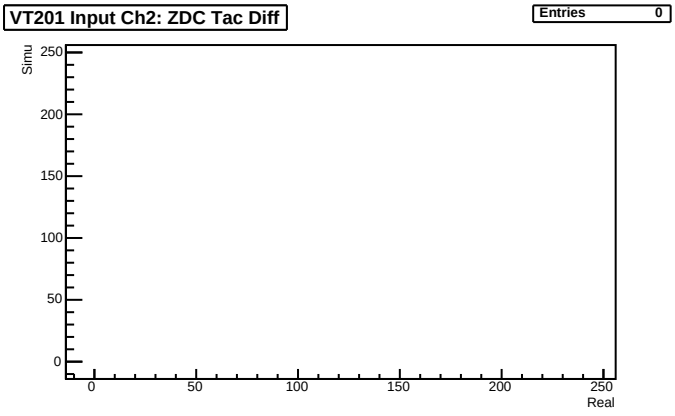

VT201 Input Ch1: EPD Tac Diff
Entries 2058
Tac

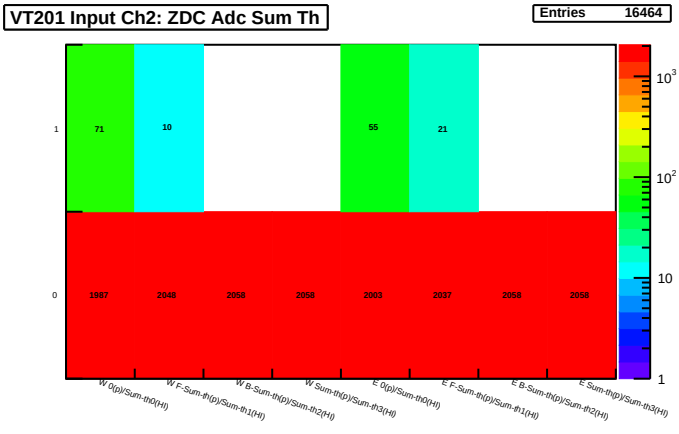

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

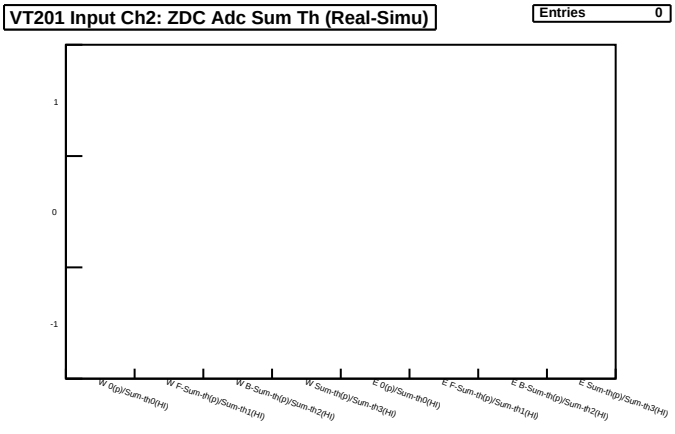

VT201 Input Ch1: EPD Hit Count Th
Entries 4116
2044
2037
14
21
East
West

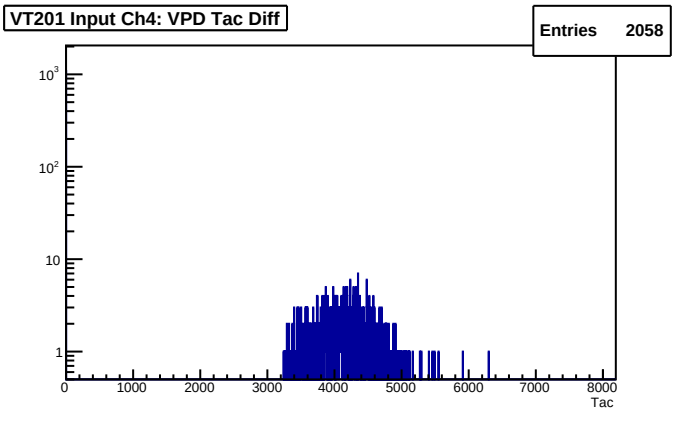

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

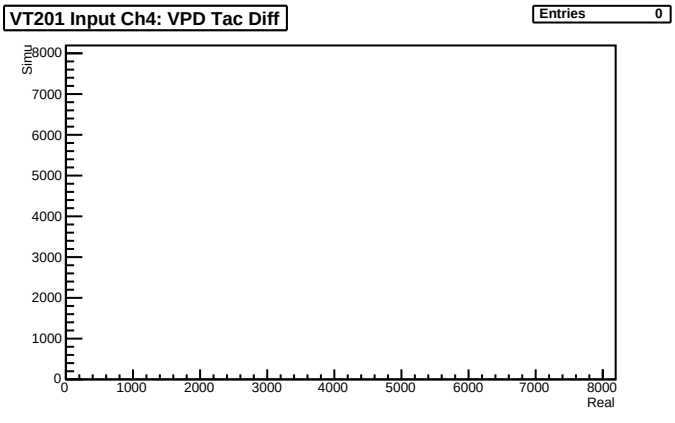

VT201 Input Ch2: ZDC Tac Diff
Entries 2058
Tac

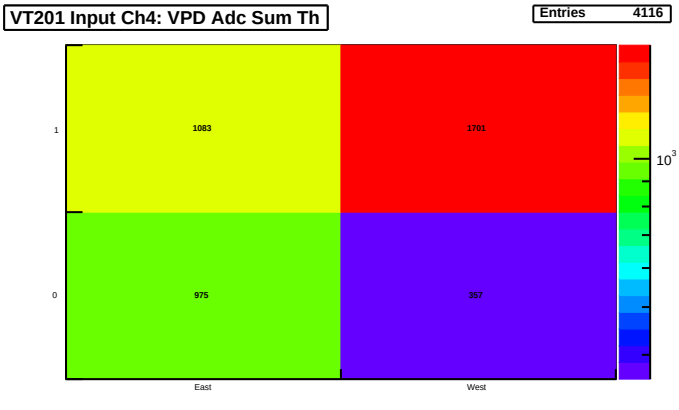

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

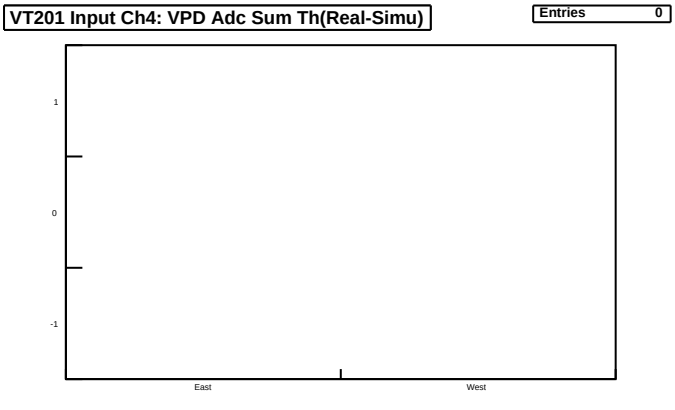

VT201 Input Ch2: ZDC Adc Sum Th
Entries 16464
71
10
55
21
1987
2048
2058
2058
2003
2037
2058
2058
W 0(p)/Sum-th0(Hi)
W F-Sum-th(p)/Sum-th1(Hi)
W B-Sum-th(p)/Sum-th2(Hi)
W Sum-th(p)/Sum-th3(Hi)
E 0(p)/Sum-th0(Hi)
E F-Sum-th(p)/Sum-th1(Hi)
E B-Sum-th(p)/Sum-th2(Hi)
E Sum-th(p)/Sum-th3(Hi)

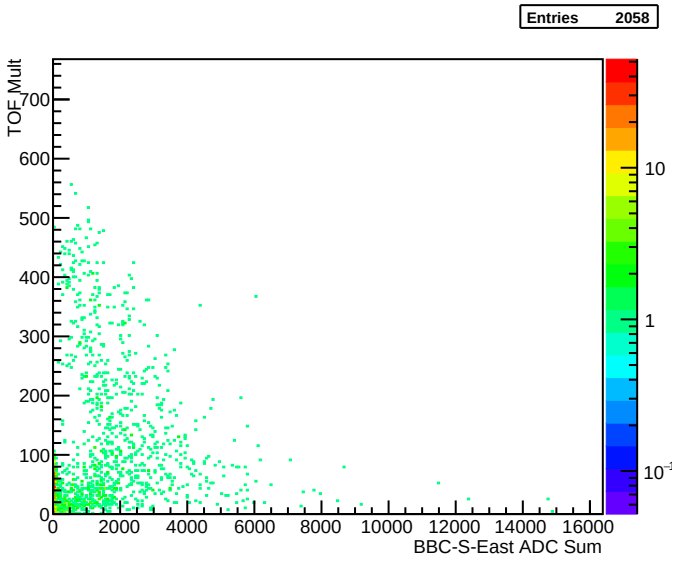

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hi)
W F-Sum-th(p)/Sum-th1(Hi)
W B-Sum-th(p)/Sum-th2(Hi)
W Sum-th(p)/Sum-th3(Hi)
E 0(p)/Sum-th0(Hi)
E F-Sum-th(p)/Sum-th1(Hi)
E B-Sum-th(p)/Sum-th2(Hi)
E Sum-th(p)/Sum-th3(Hi)

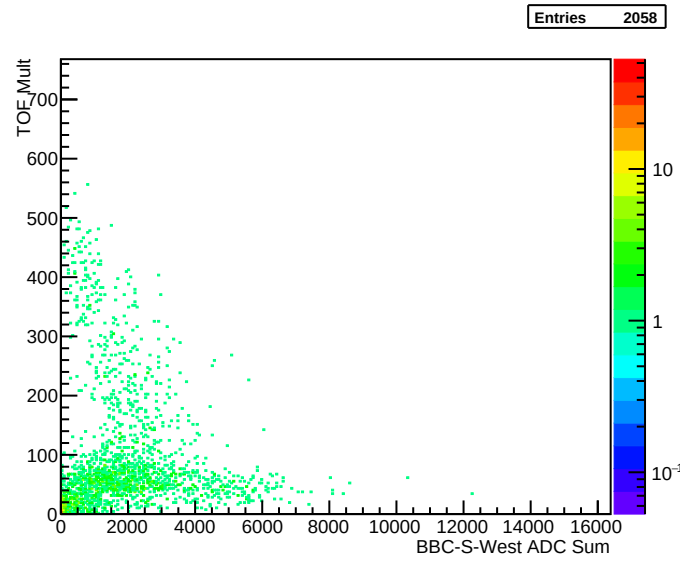

VT201 Input Ch4: VPD Tac Diff
Entries 2058
Tac

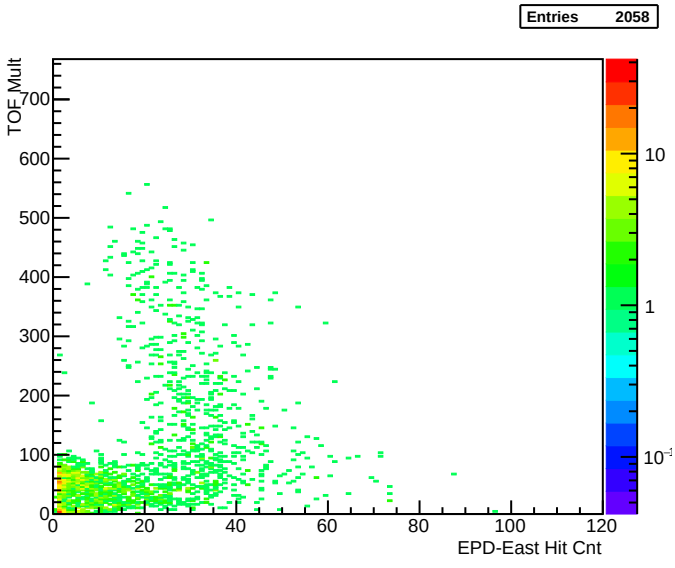

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

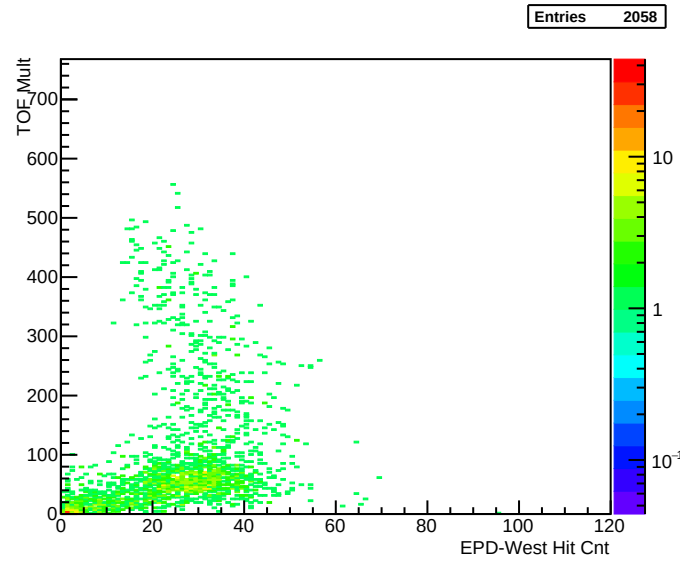

VT201 Input Ch4: VPD Adc Sum Th
Entries 4116
1083
1701
975
357
East
West

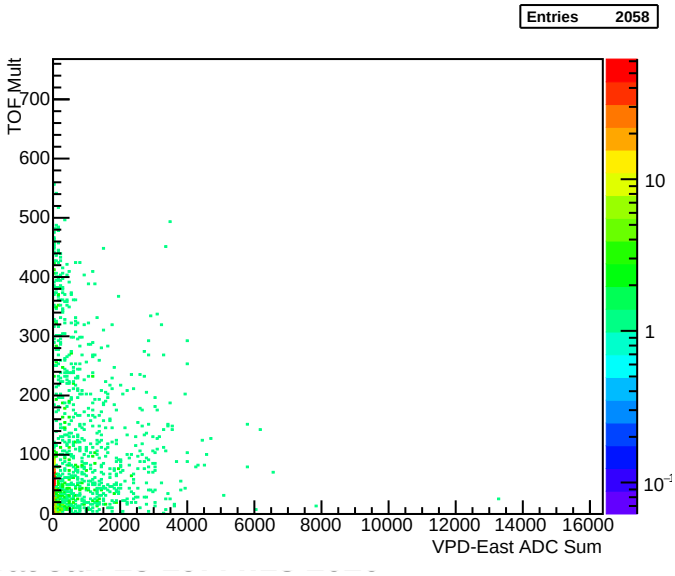

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

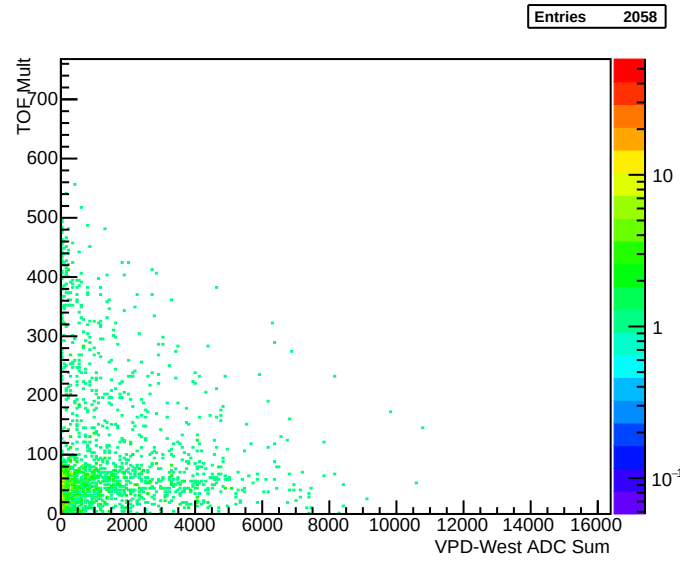

Entries 2058
TOF_Mult
BBC-S-East ADC Sum

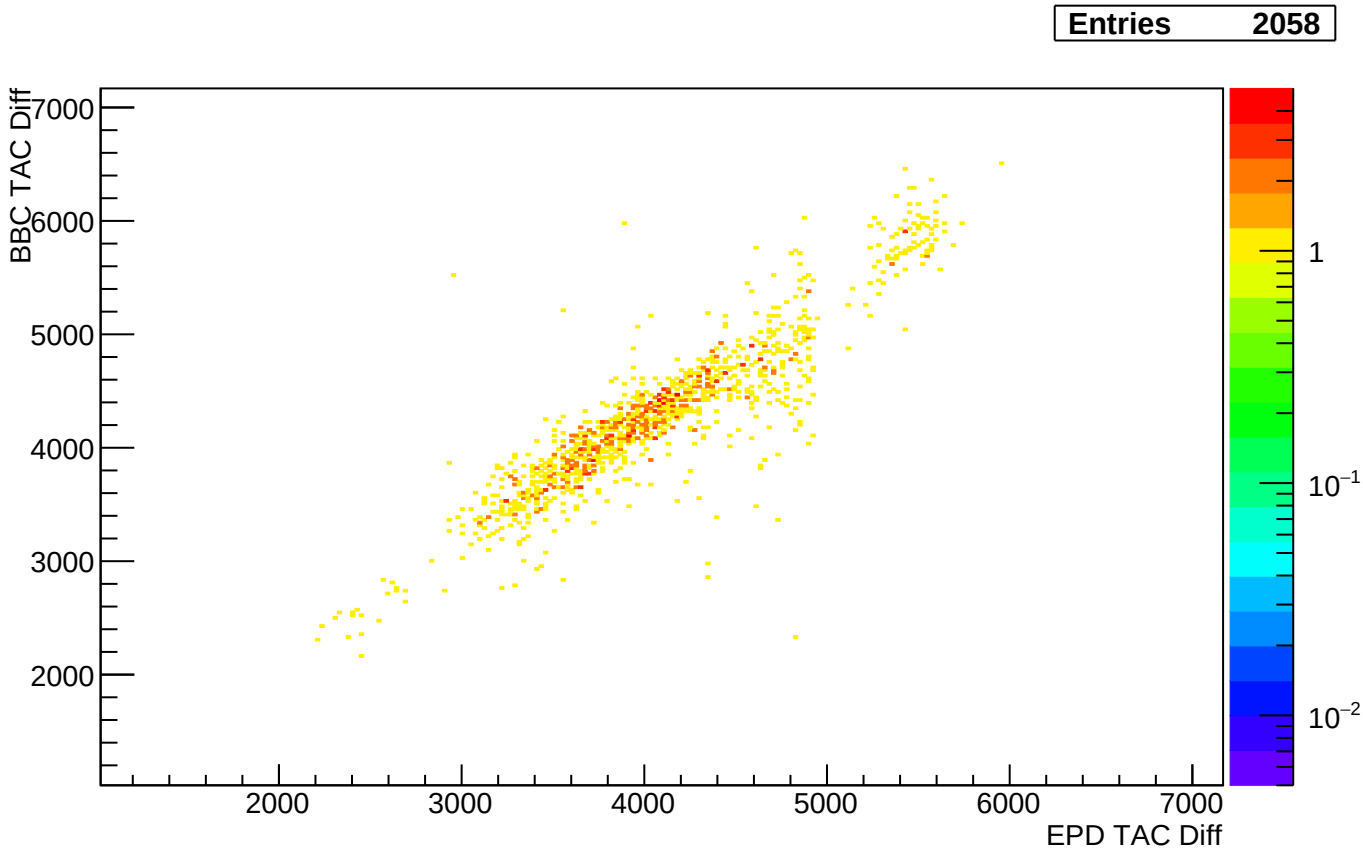

Entries 2058
TOF_Mult
BBC-S-West ADC Sum

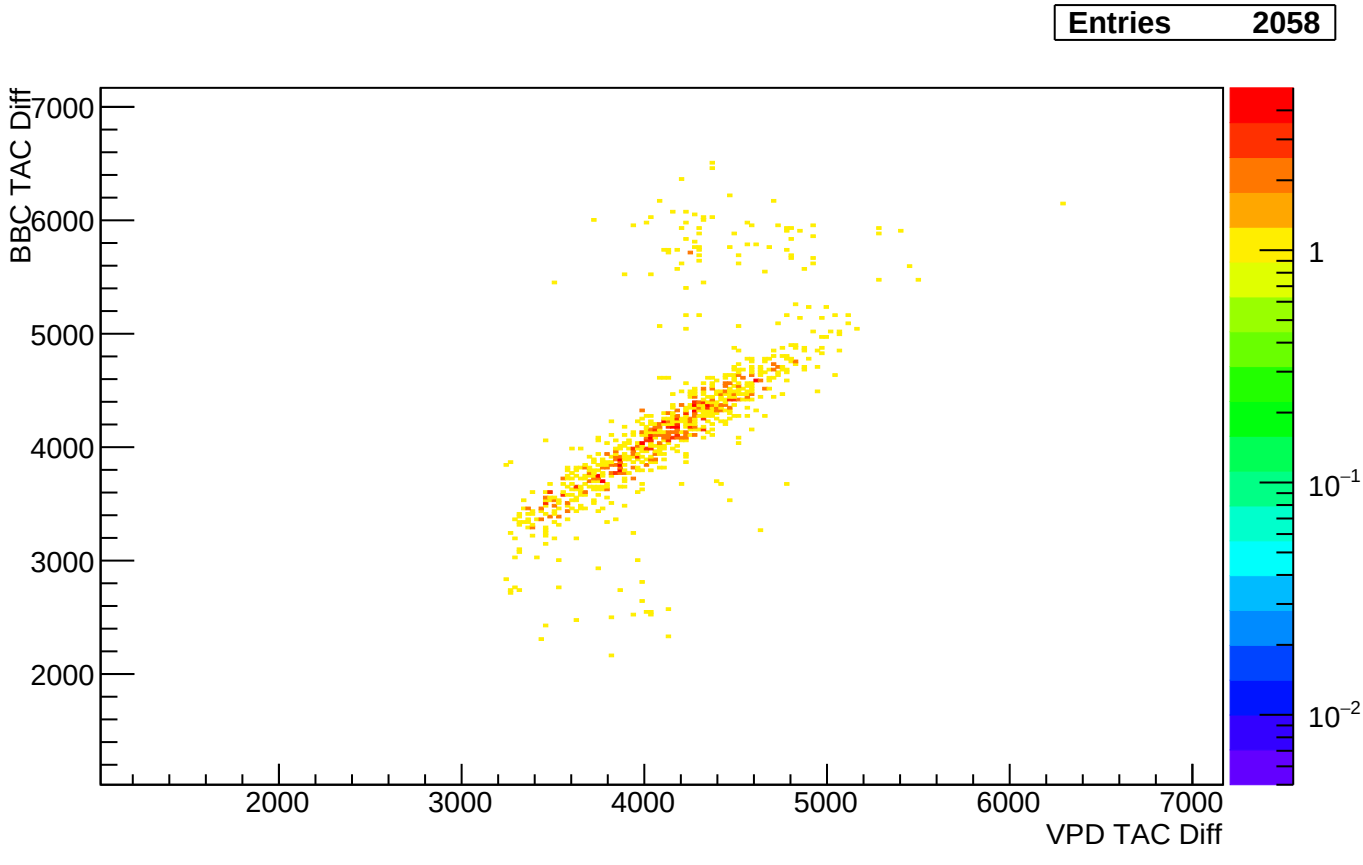

Entries 2058
TOF_Mult
EPD-East Hit Cnt

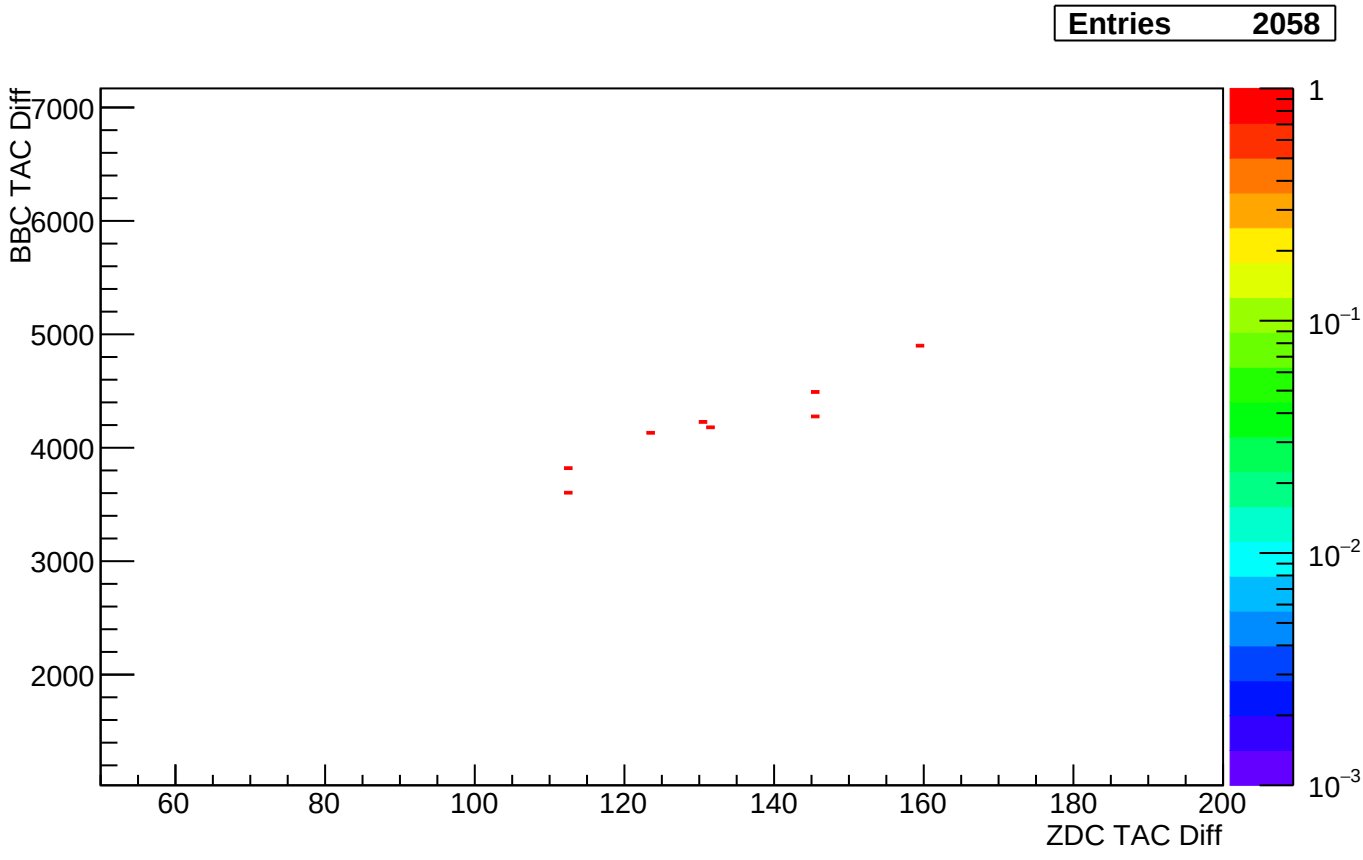

Entries 2058
TOF_Mult
EPD-West Hit Cnt

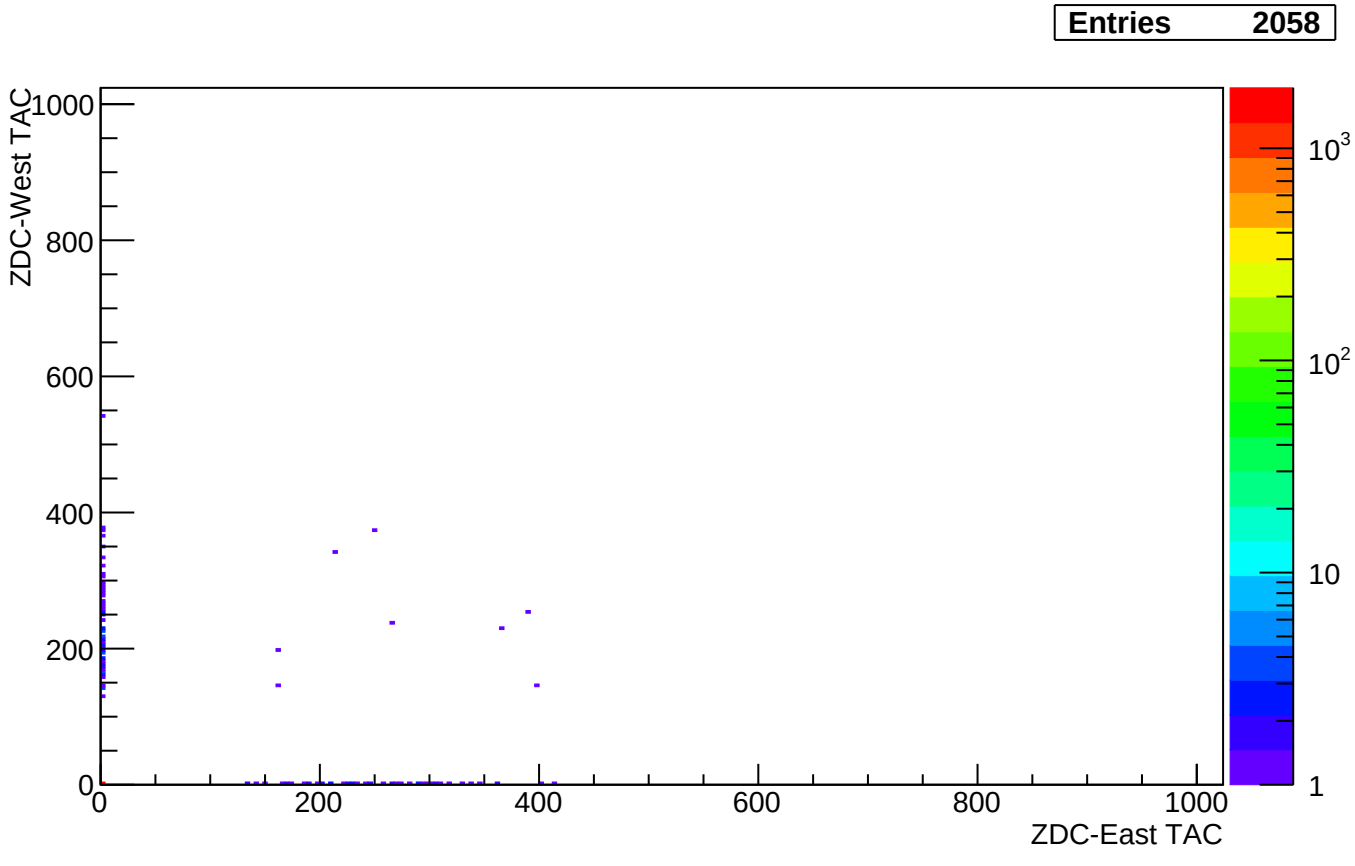

Entries 2058
TOF_Mult
VPD-East ADC Sum

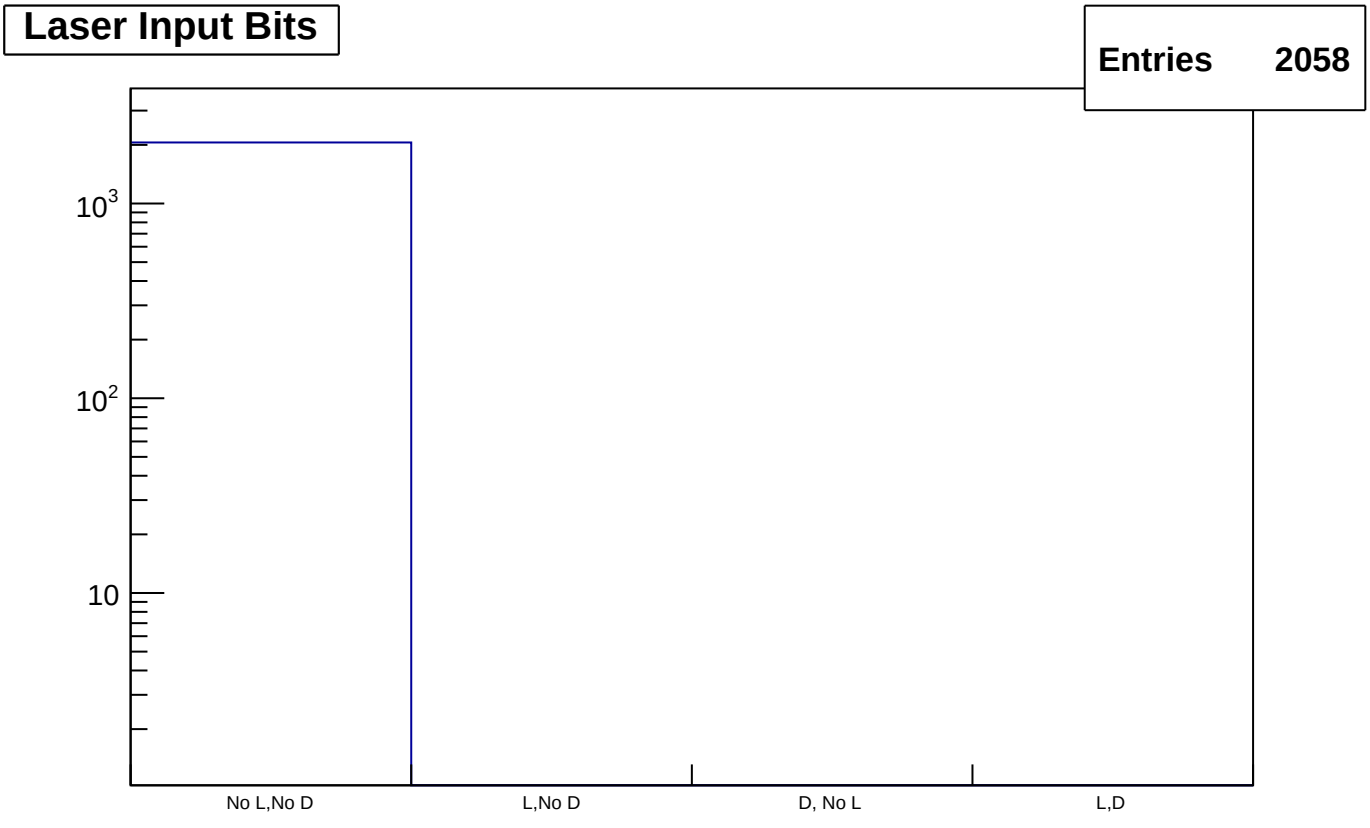

Entries 2058
TOF_Mult
VPD-West ADC Sum

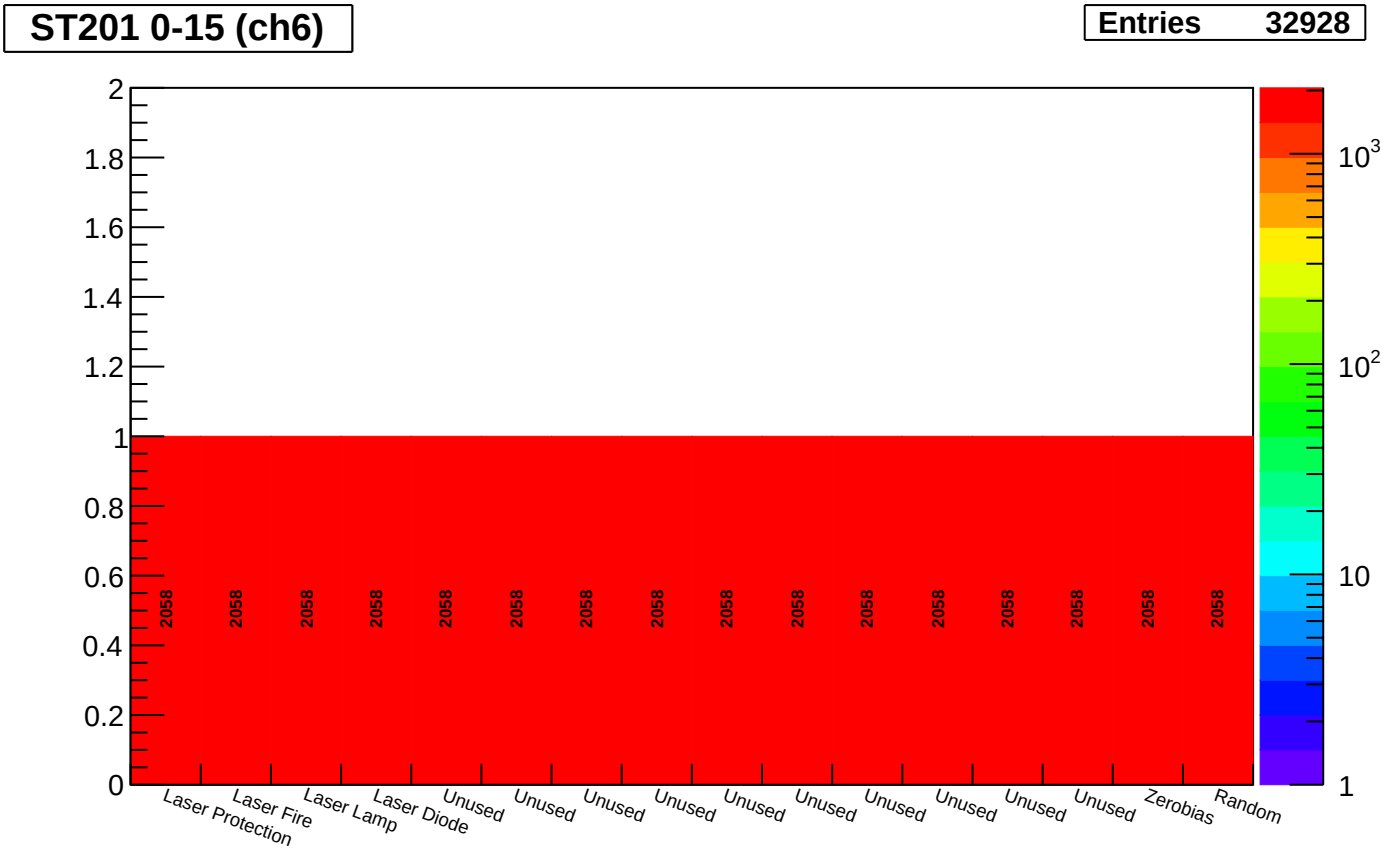

Entries 2058
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

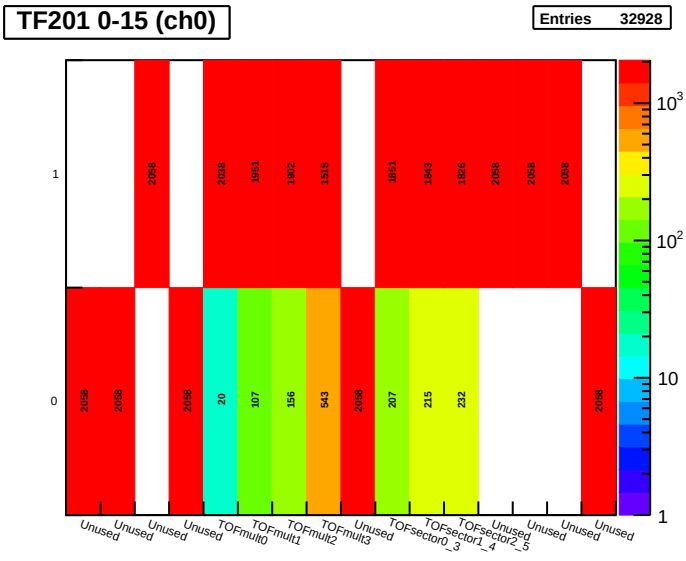

Entries 2058
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

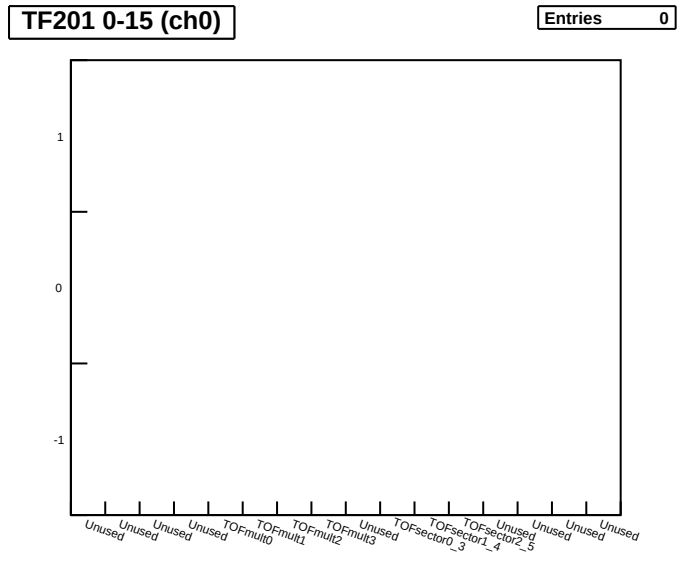

Entries 2058
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

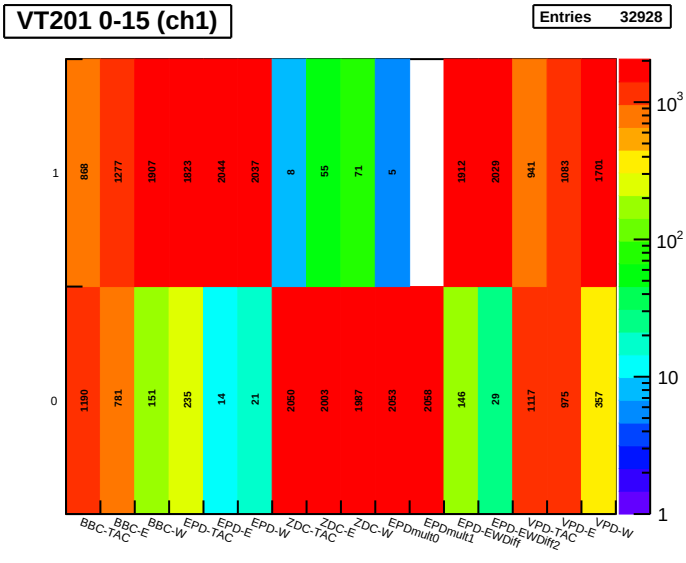

Entries 2058
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^3
10^2
10
1

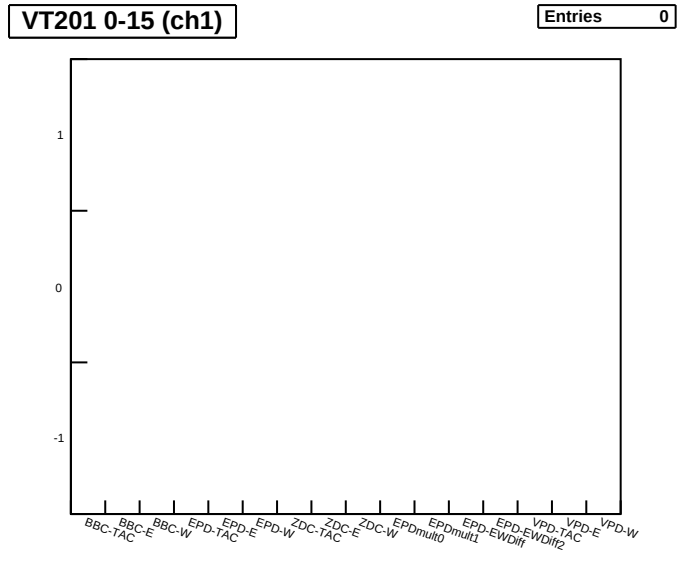

Laser Input Bits
Entries 2058
10^3
10^2
10
No L,No D
L,No D
D, No L
L,D

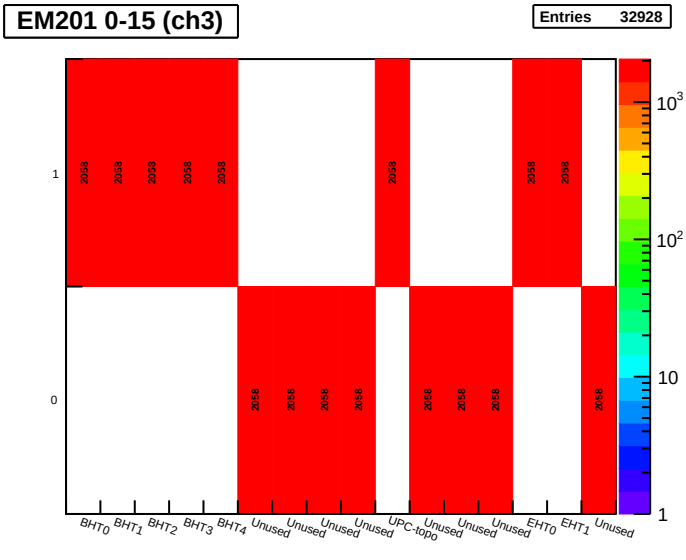

ST201 0-15 (ch6)
Entries 32928
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2058
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random
10^3
10^2
10
1

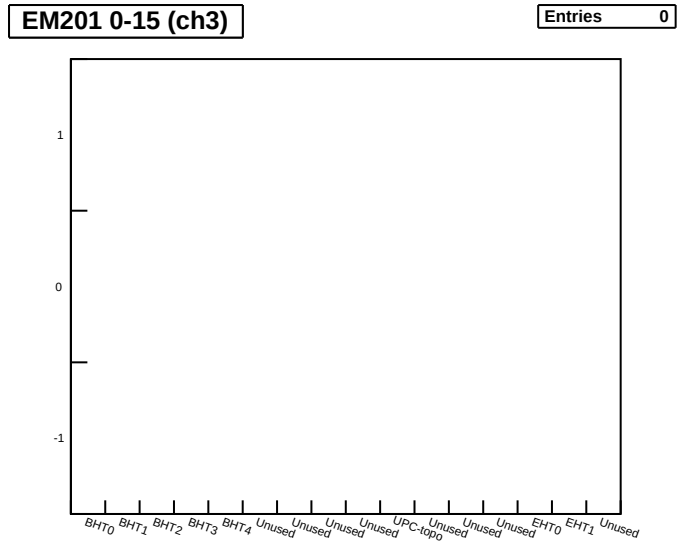

TF201 0-15 (ch0)
Entries 32928
1
0
2058 2038 1951 1902 1515 1851 1843 1826 2058 2058 2058
2058 2058 2058 20 107 156 543 2058 207 215 232 2058
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^3
10^2
10
1


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 32928
1
0
868 1277 1907 1823 2044 2037 8 55 71 5 1912 2029 941 1083 1701
1190 781 151 235 14 21 2050 2003 1987 2053 2058 146 29 1117 975 357
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 32928
1
0
2058 2058 2058 2058 2058 2058 2058 2058 2058
2058 2058 2058 2058 2058 2058 2058 2058
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