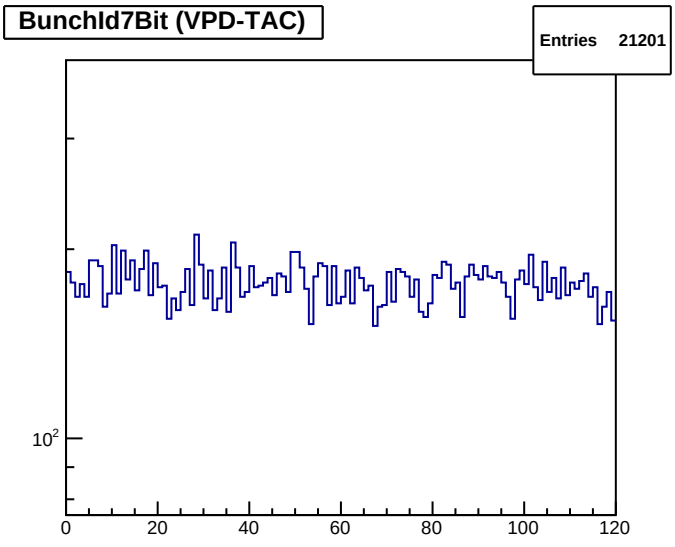
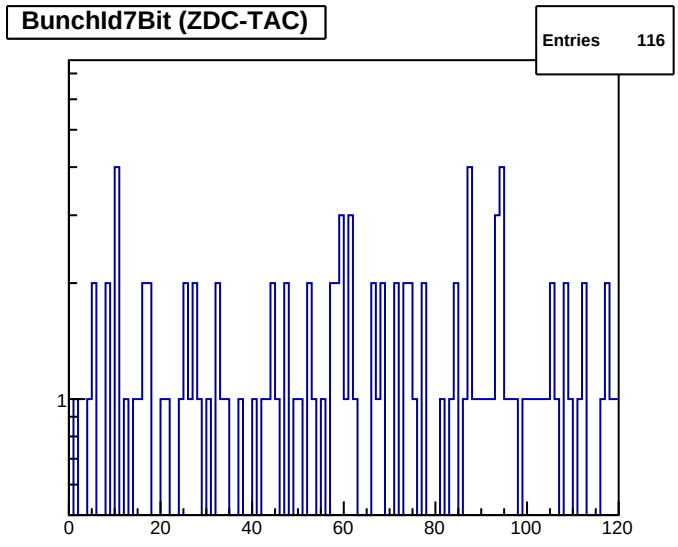
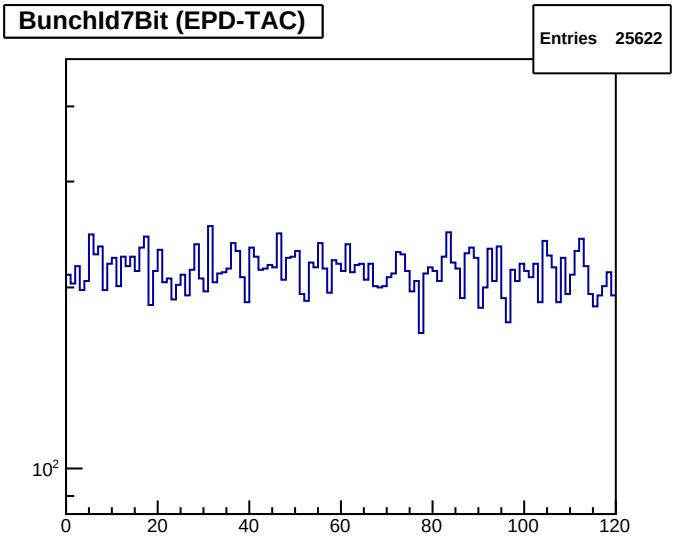
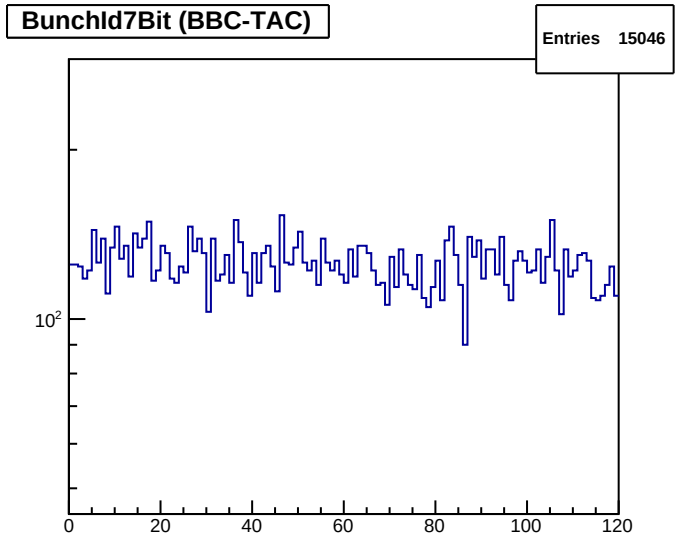
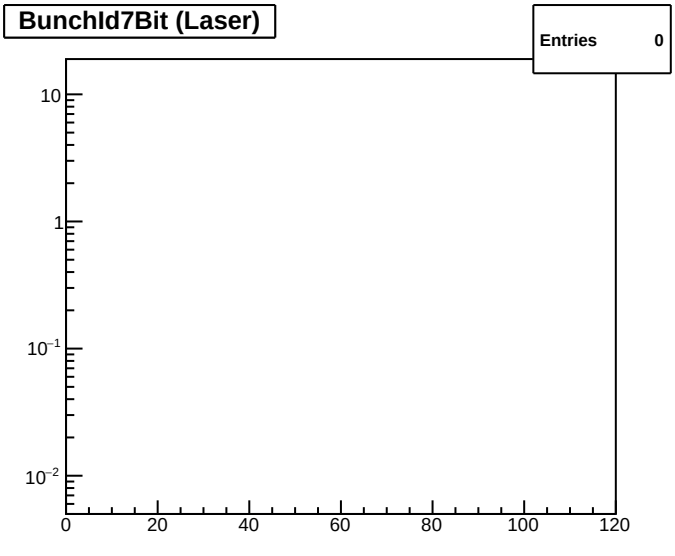
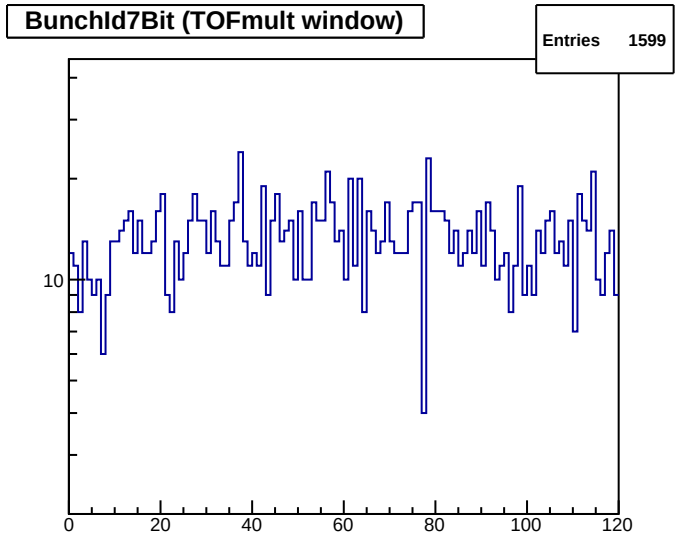

BunchId7Bit (VPD-TAC)
Entries 21201
10^2
0 20 40 60 80 100 120

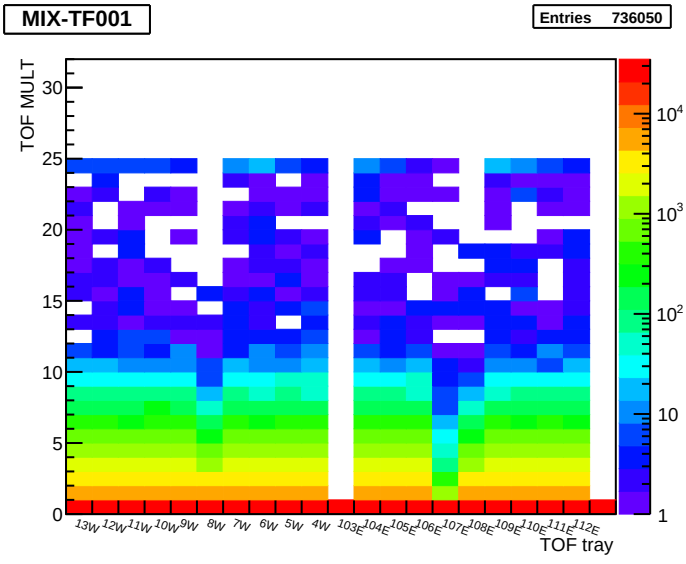

BunchId7Bit (ZDC-TAC)
Entries 116
1
0 20 40 60 80 100 120

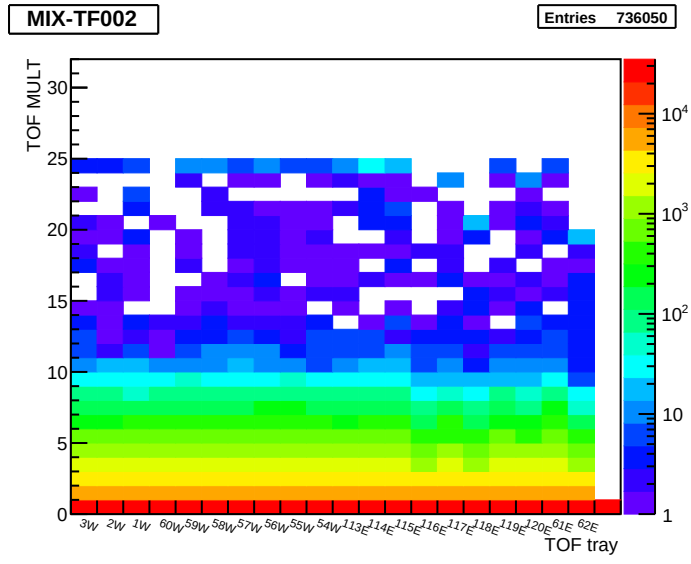

BunchId7Bit (EPD-TAC)
Entries 25622
10^2
0 20 40 60 80 100 120

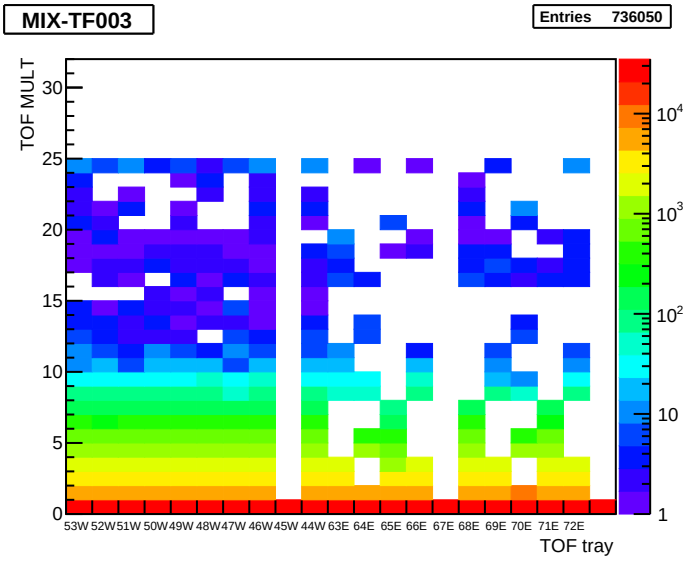

BunchId7Bit (BBC-TAC)
Entries 15046
10^2
0 20 40 60 80 100 120

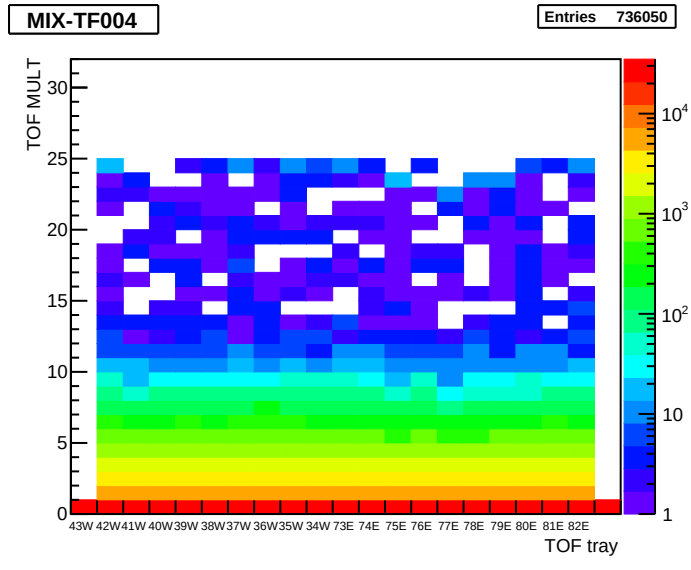

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

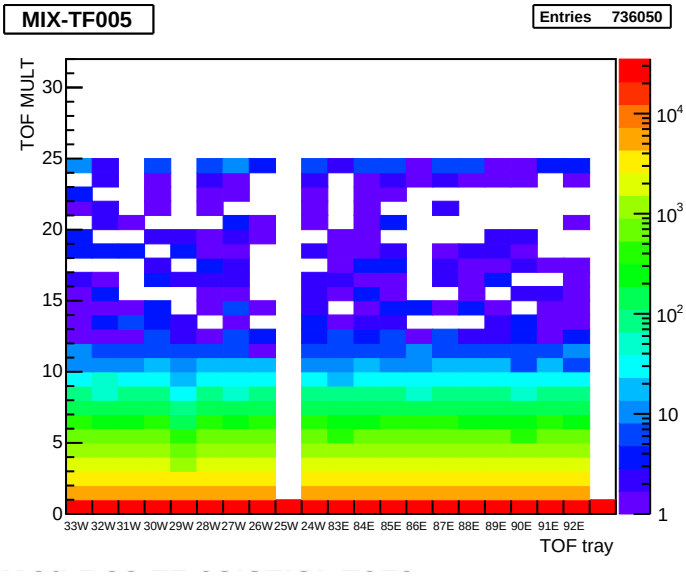

BunchId7Bit (TOFmult window)
Entries 1599
10
0 20 40 60 80 100 120

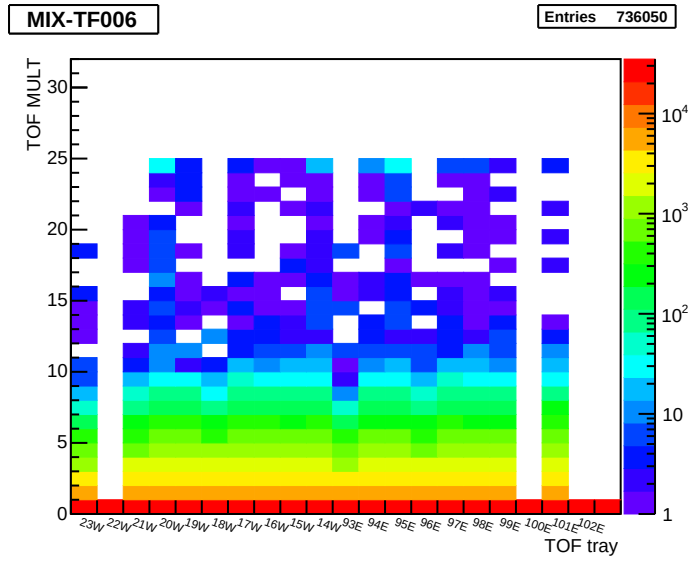

MIX-TF001
Entries 736050
TOF MULT
TOF tray

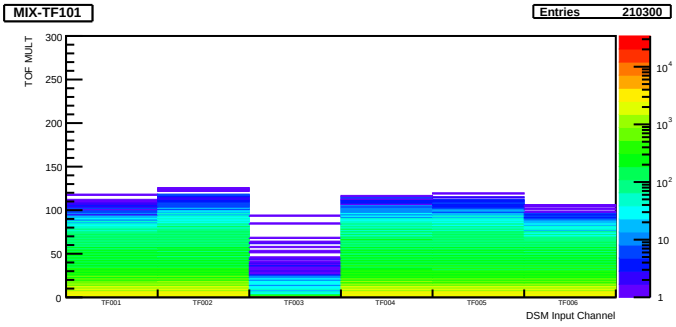

MIX-TF002
Entries 736050
TOF MULT
TOF tray

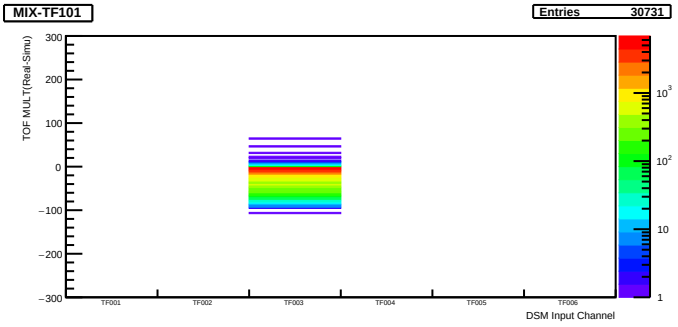

MIX-TF003
Entries 736050
TOF MULT
TOF tray

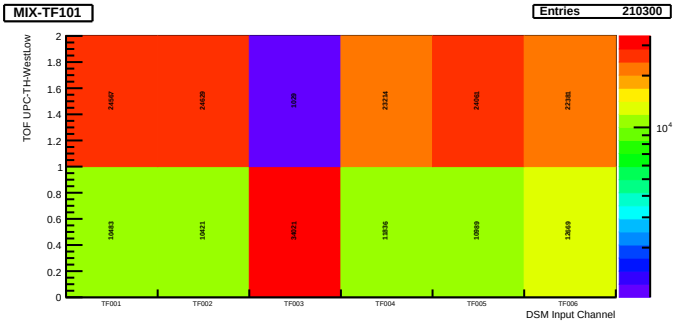

MIX-TF004
Entries 736050
TOF MULT
TOF tray

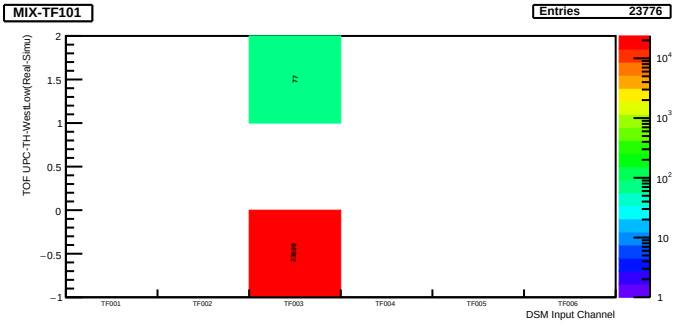

MIX-TF005
Entries 736050
TOF MULT
TOF tray

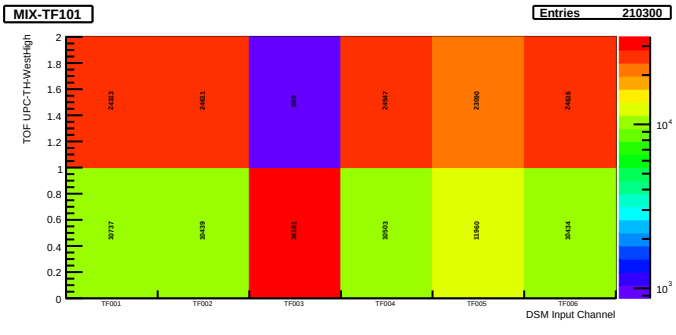

MIX-TF006
Entries 736050
TOF MULT
TOF tray

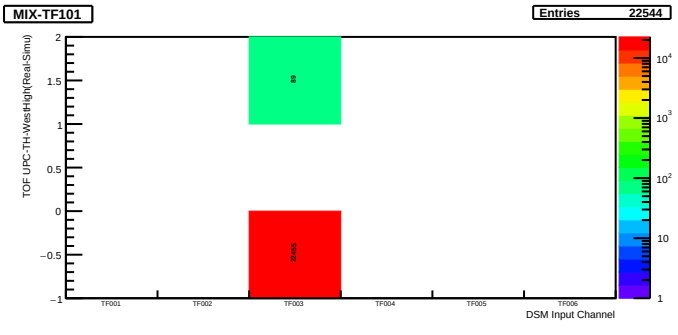

MIX-TF101
Entries 210300
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

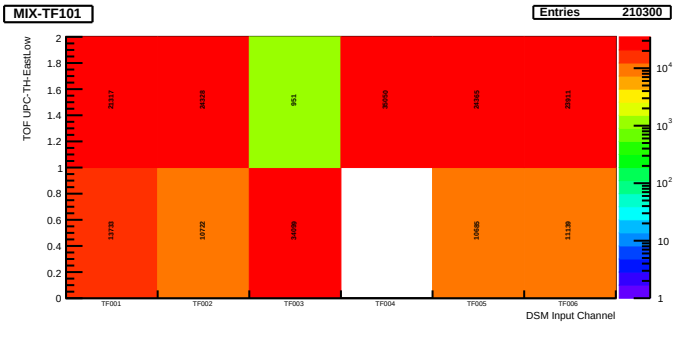

MIX-TF101
Entries 30731
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

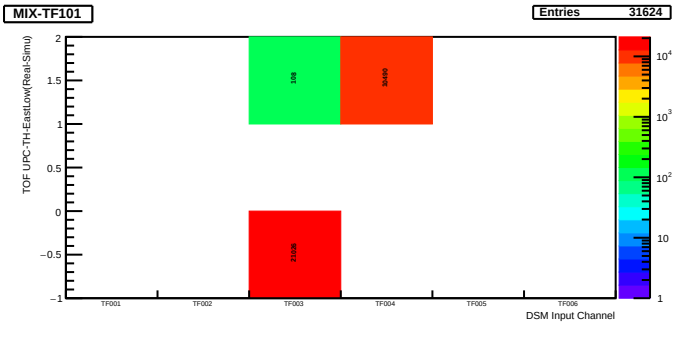

MIX-TF101
Entries 210300
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

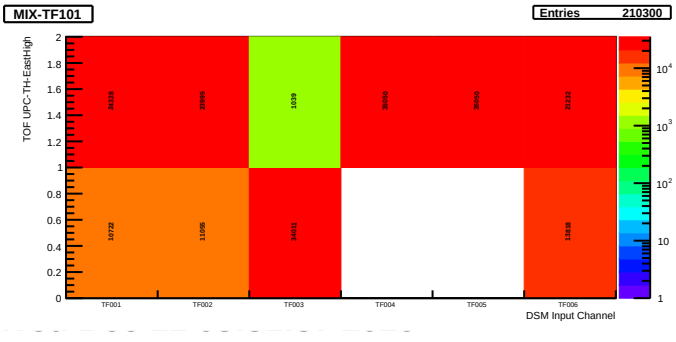

MIX-TF101
Entries 23776
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

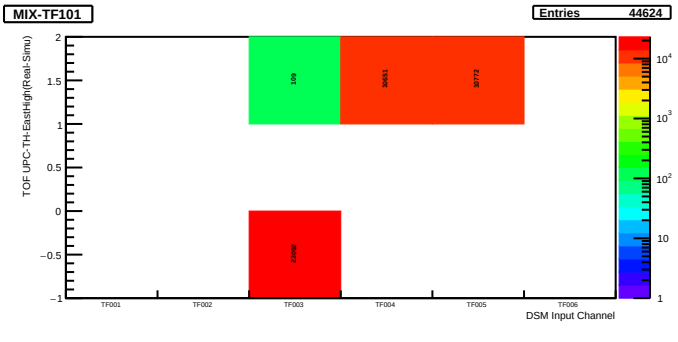

MIX-TF101
Entries 210300
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

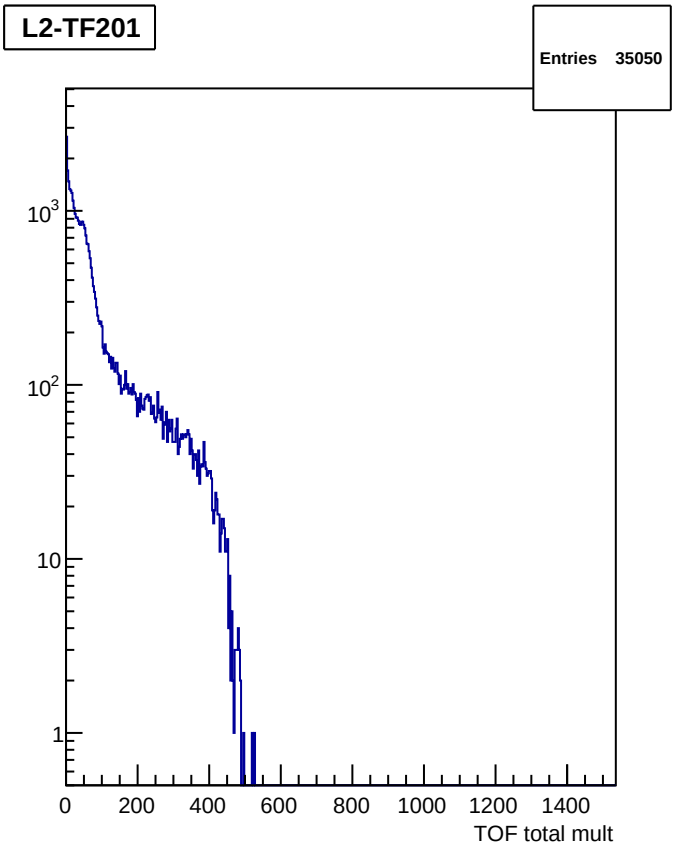

MIX-TF101
Entries 22544
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

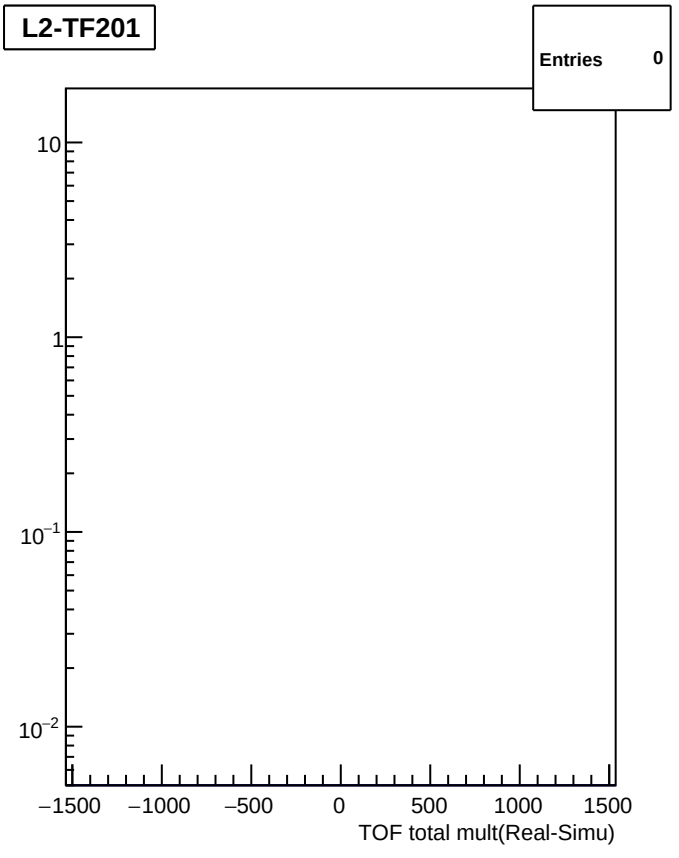

MIX-TF101
Entries 210300
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

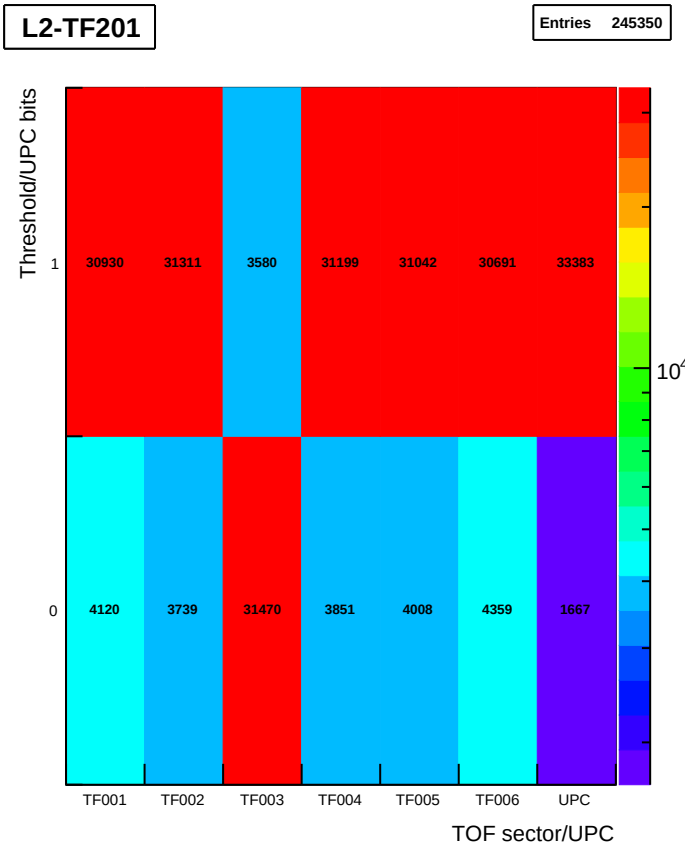

MIX-TF101
Entries 31624
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

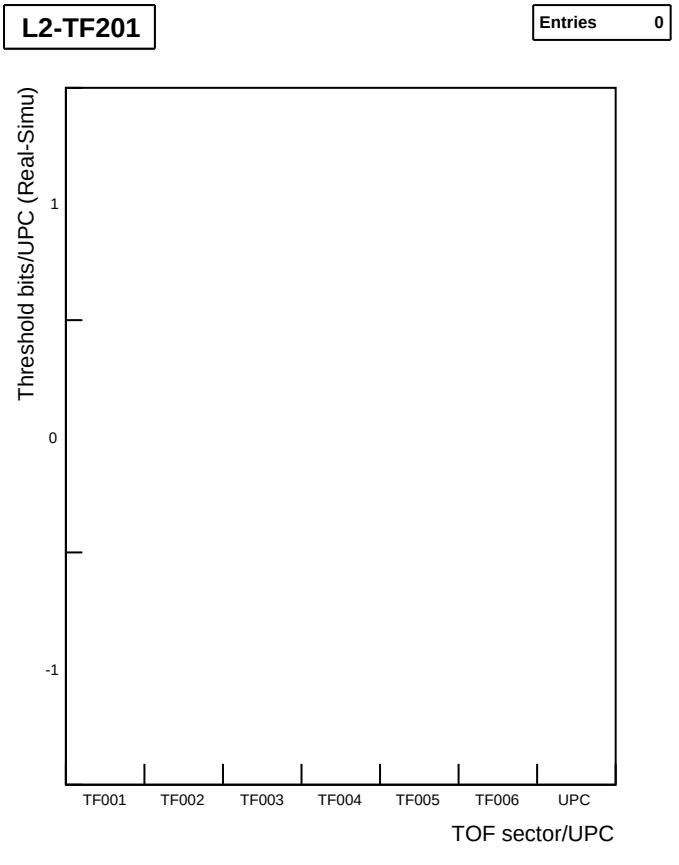

MIX-TF101
Entries 210300
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

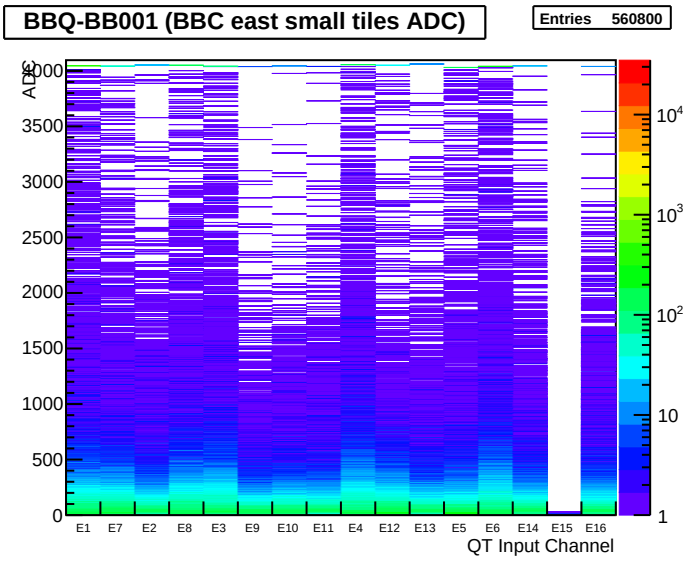

MIX-TF101
Entries 44624
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

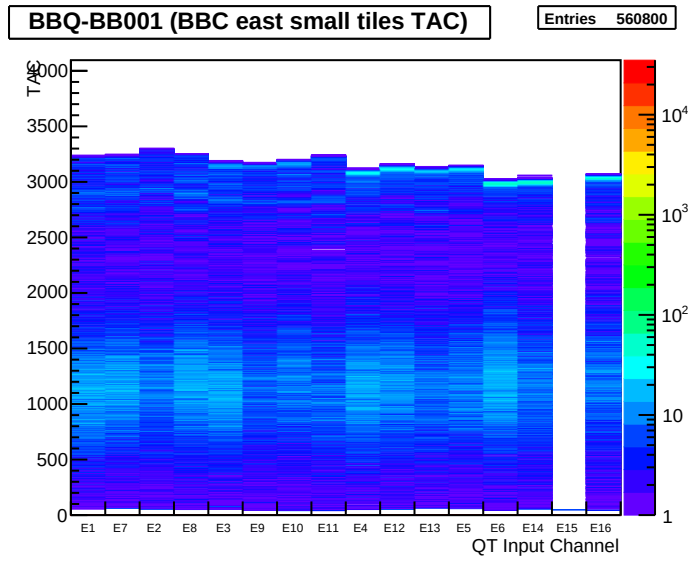

L2-TF201
Entries 35050
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

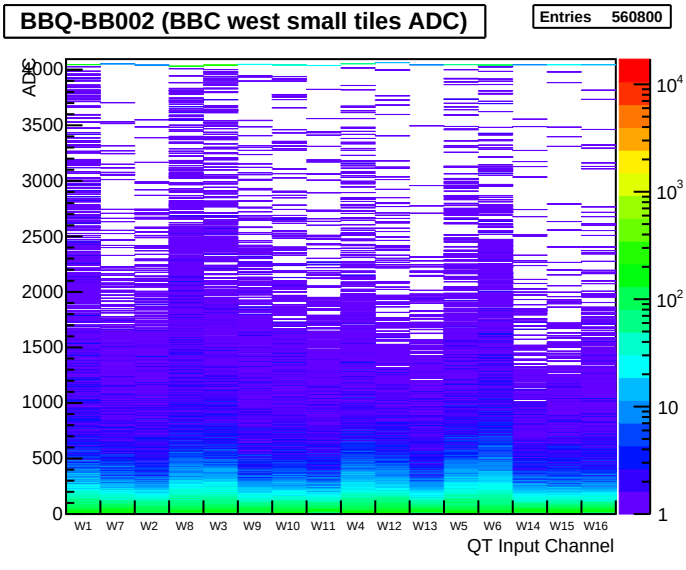

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

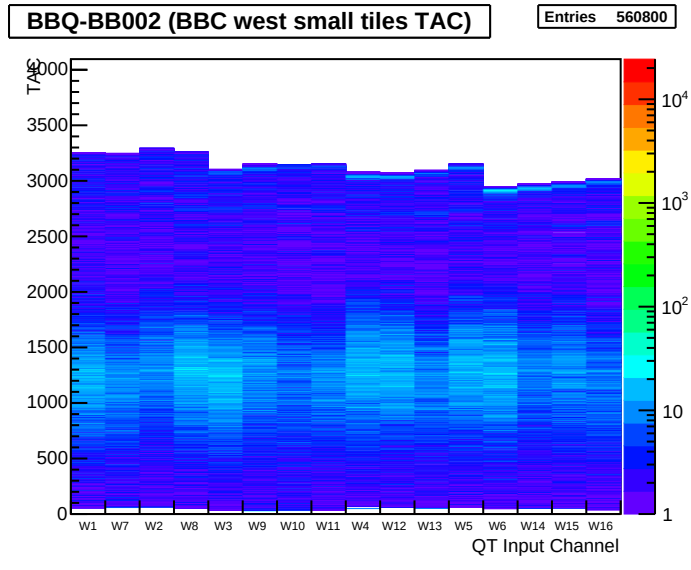

L2-TF201
Entries 245350
Threshold/UPC bits
1
0
30930
31311
3580
31199
31042
30691
33383
4120
3739
31470
3851
4008
4359
1667
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

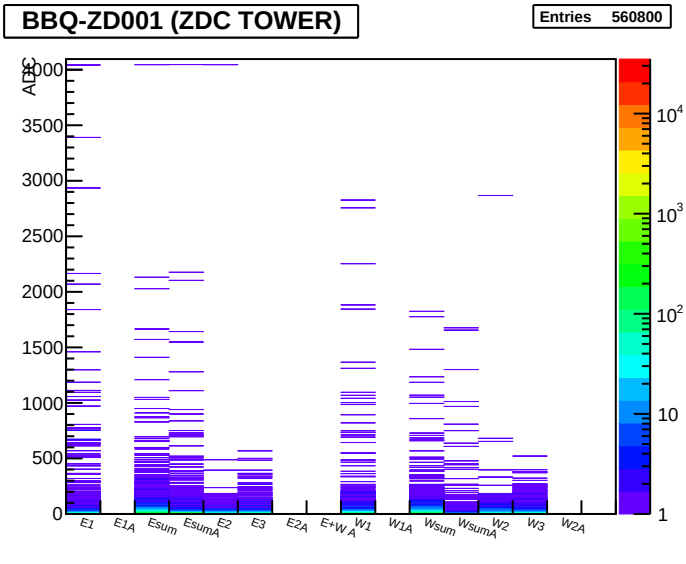

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

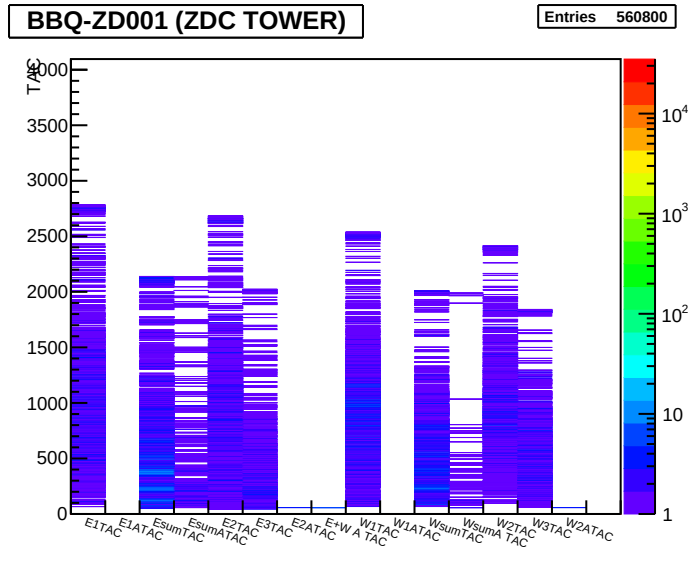

BBQ-BB001 (BBC east small tiles ADC)
Entries 560800
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

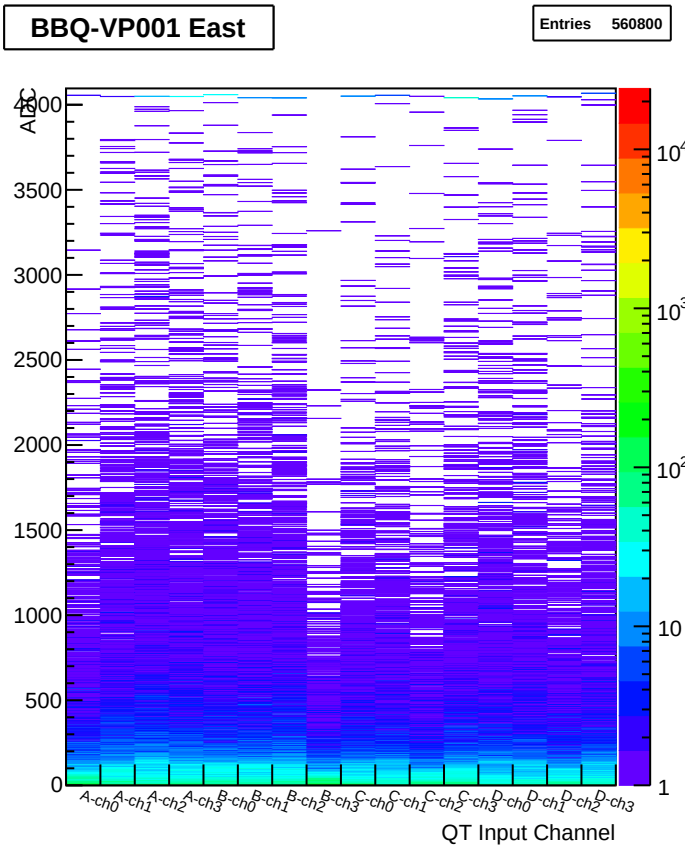

BBQ-BB001 (BBC east small tiles TAC)
Entries 560800
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

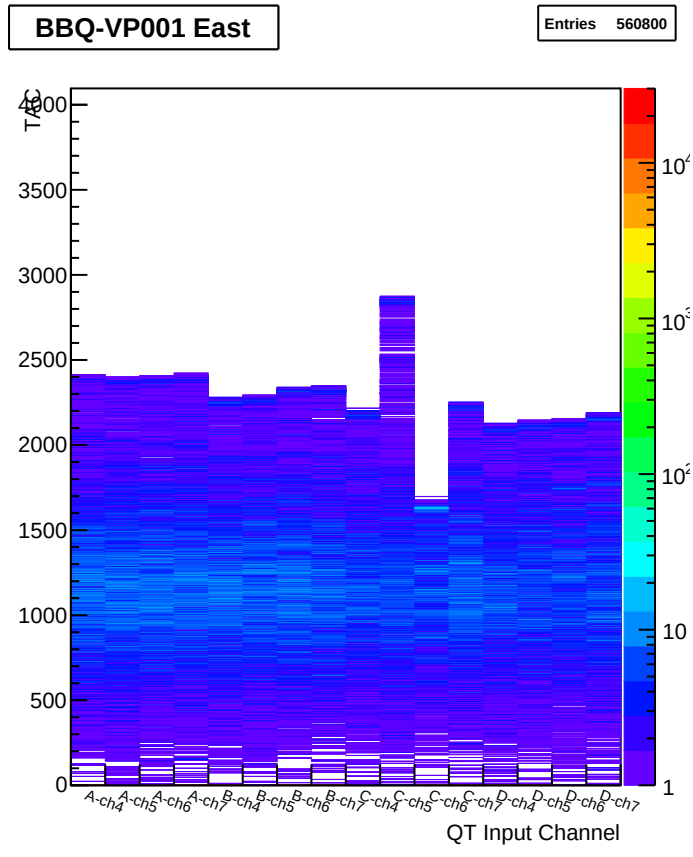

BBQ-BB002 (BBC west small tiles ADC)
Entries 560800
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

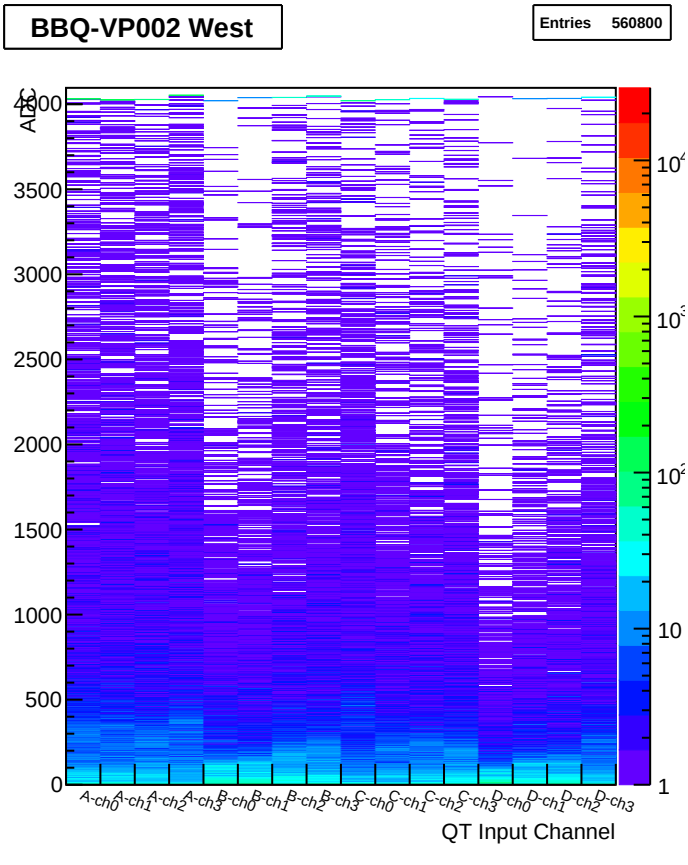

BBQ-BB002 (BBC west small tiles TAC)
Entries 560800
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

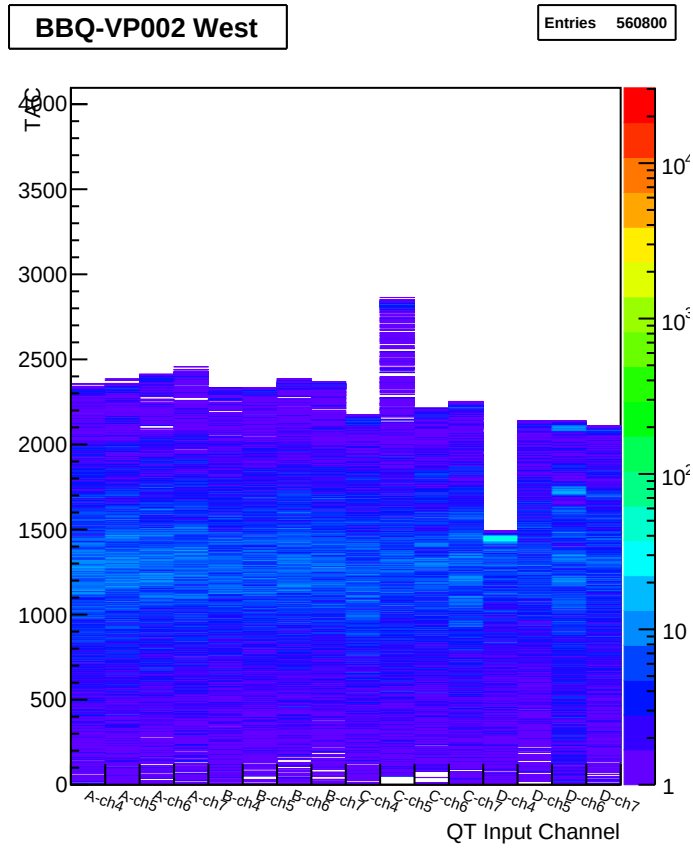

BBQ-ZD001 (ZDC TOWER)
Entries 560800
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

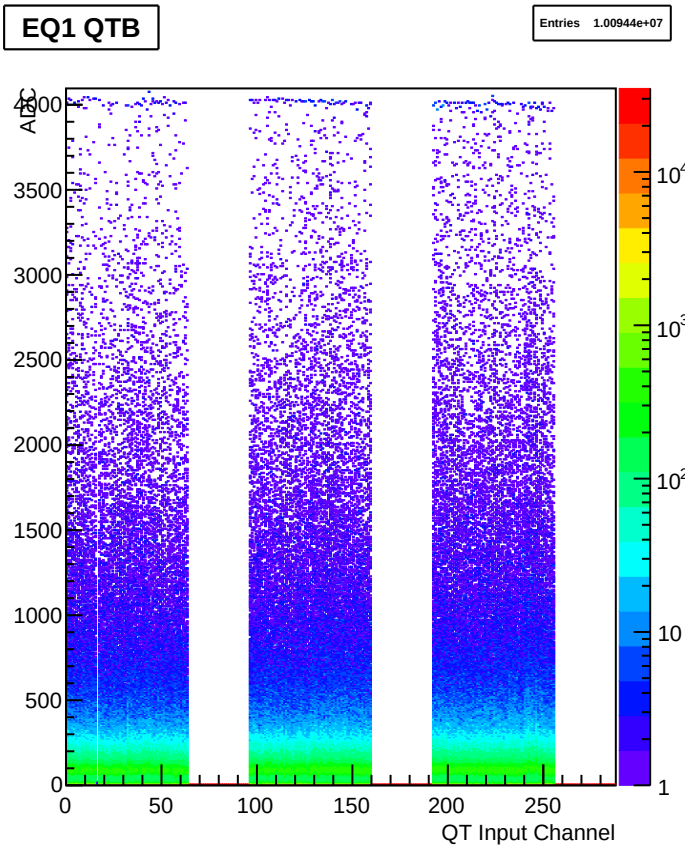

BBQ-ZD001 (ZDC TOWER)
Entries 560800
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

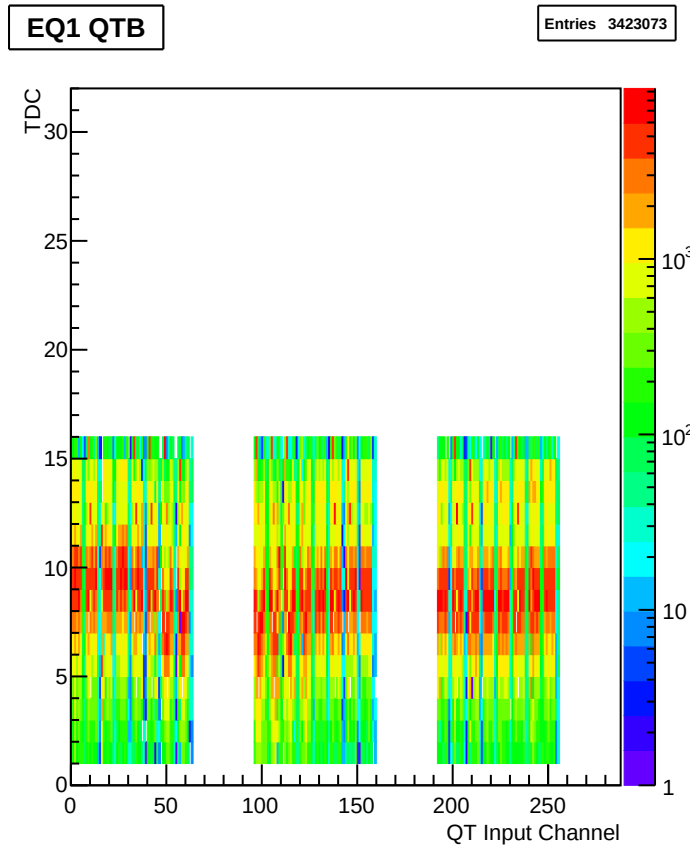

BBQ-VP001 East
Entries 560800
ADC
QT Input Channel

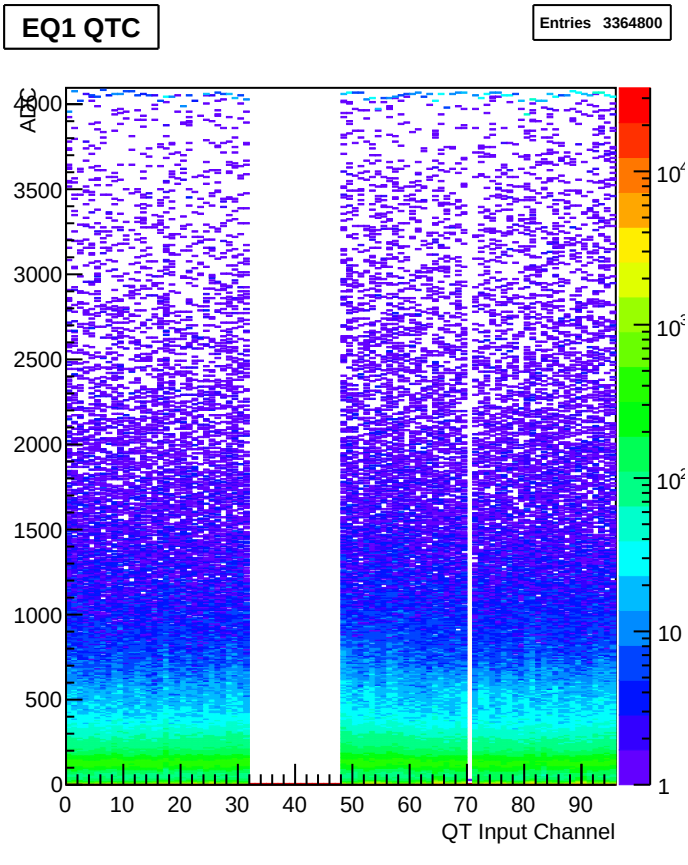

BBQ-VP001 East
Entries 560800
TADC
QT Input Channel

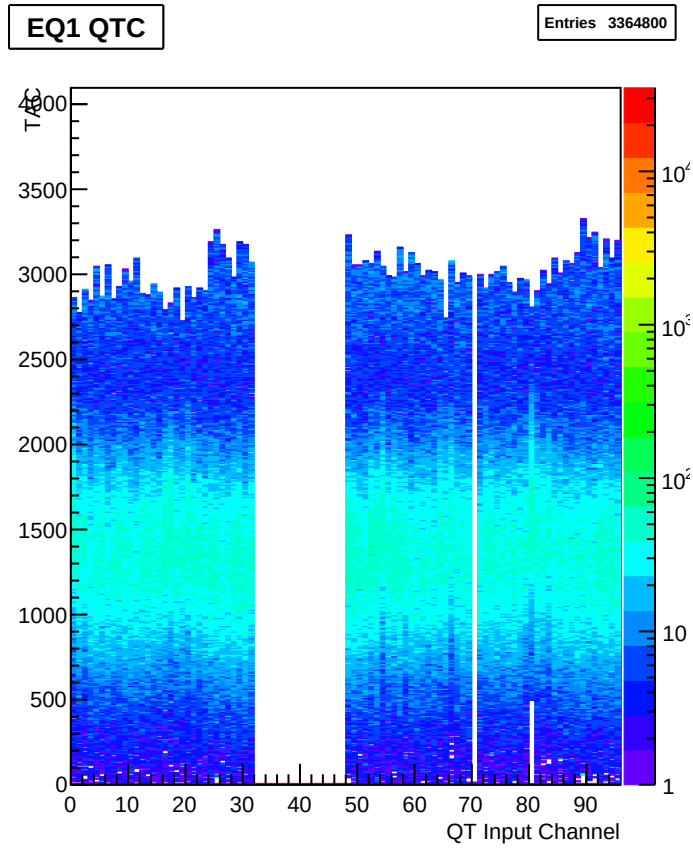

BBQ-VP002 West
Entries 560800
ADC
QT Input Channel

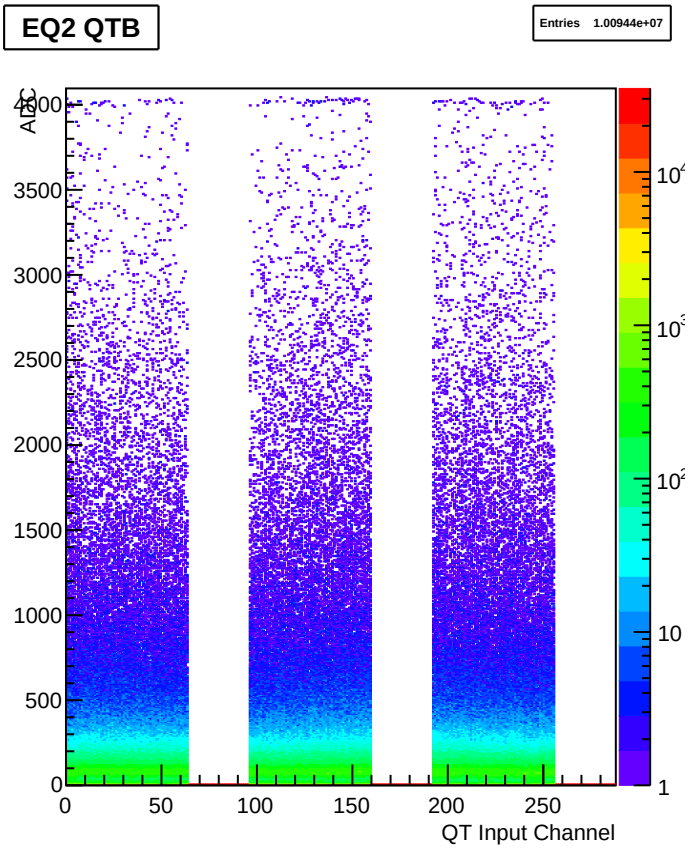

BBQ-VP002 West
Entries 560800
TADC
QT Input Channel

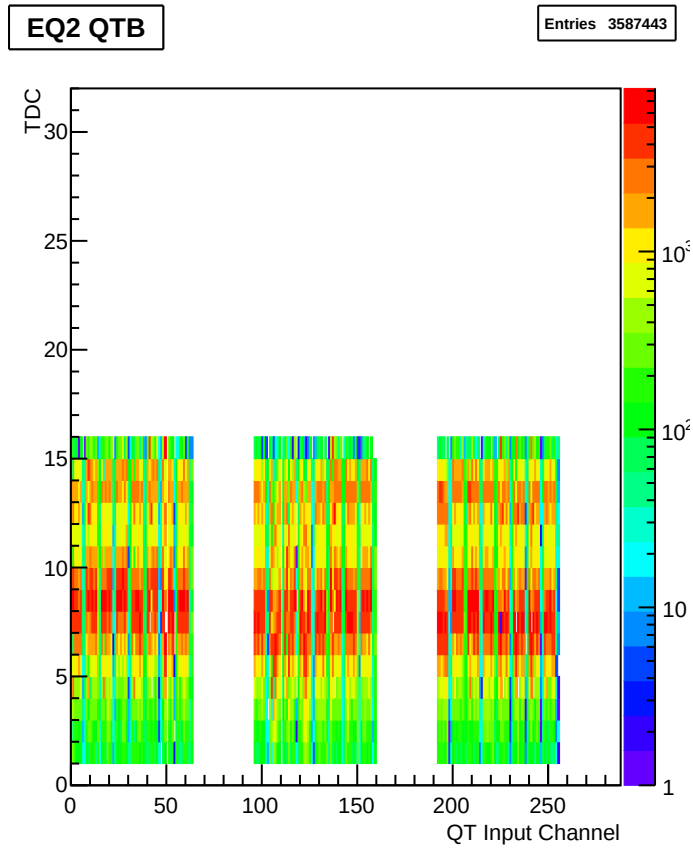

EQ1 QTB
Entries 1.00944e+07
ADC
QT Input Channel

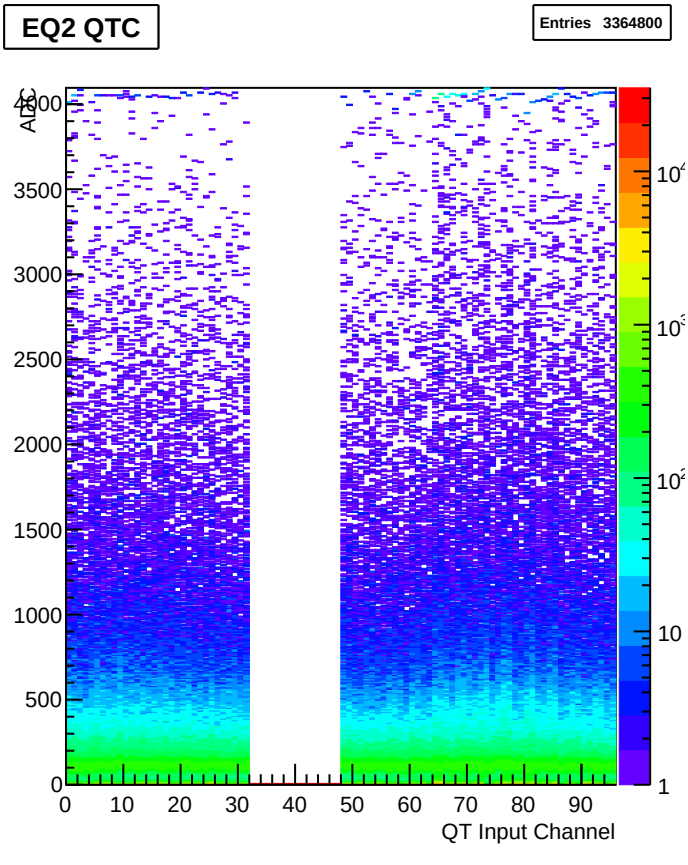

EQ1 QTB
Entries 3423073
TDC
QT Input Channel

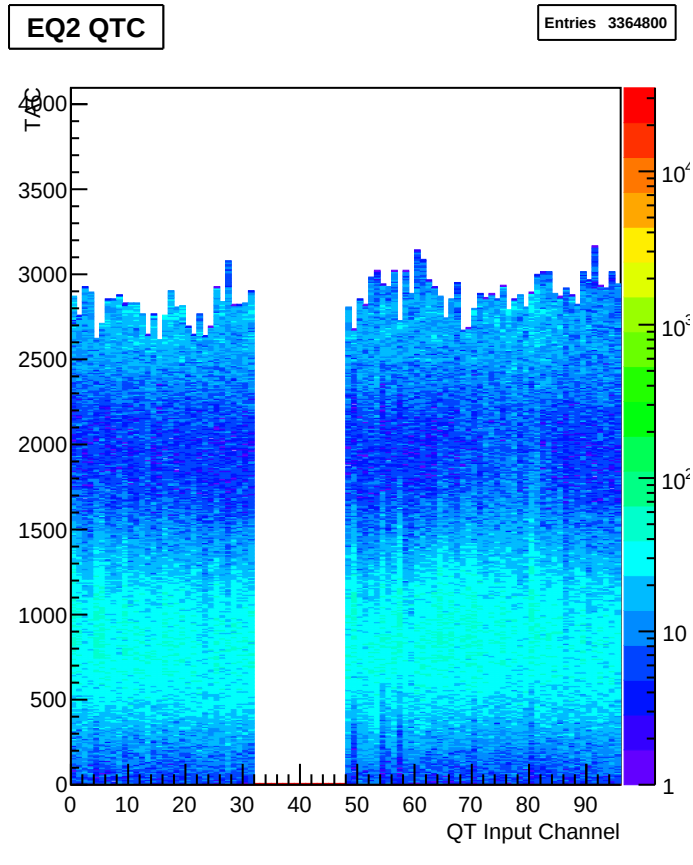

EQ1 QTC
Entries 3364800
ADC
QT Input Channel

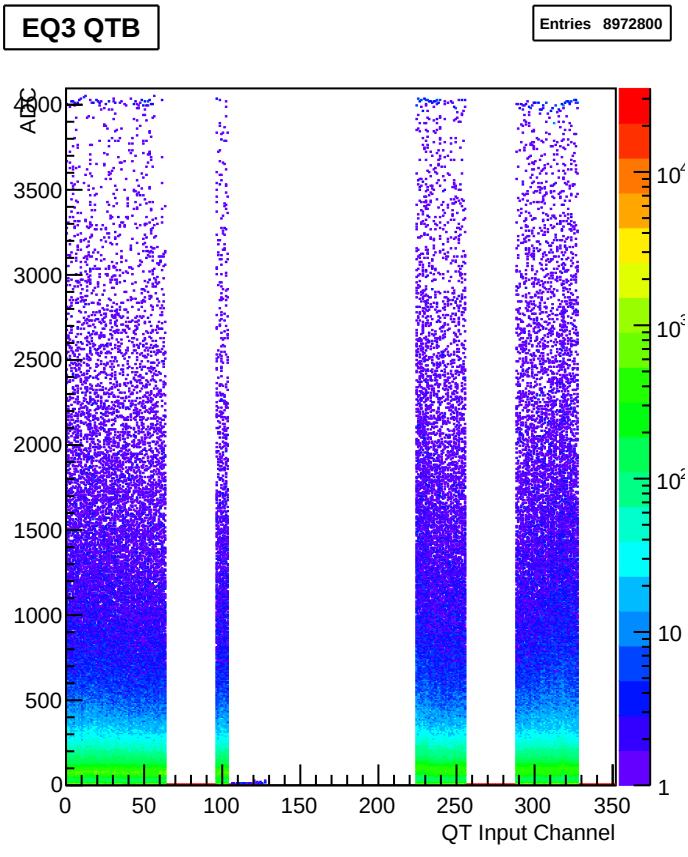

EQ1 QTC
Entries 3364800
TADC
QT Input Channel

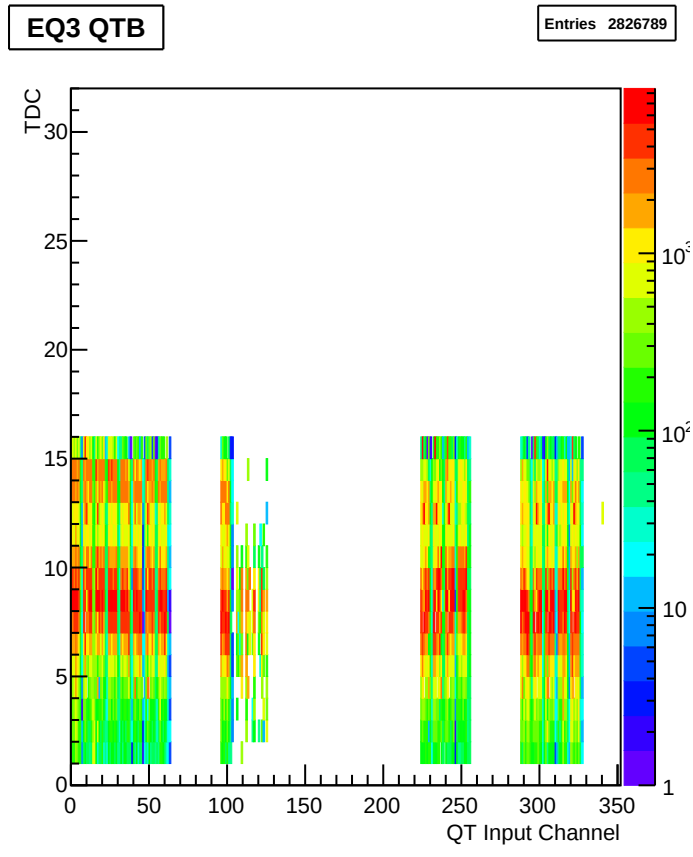

EQ2 QTB
Entries 1.00944e+07
ADC
QT Input Channel

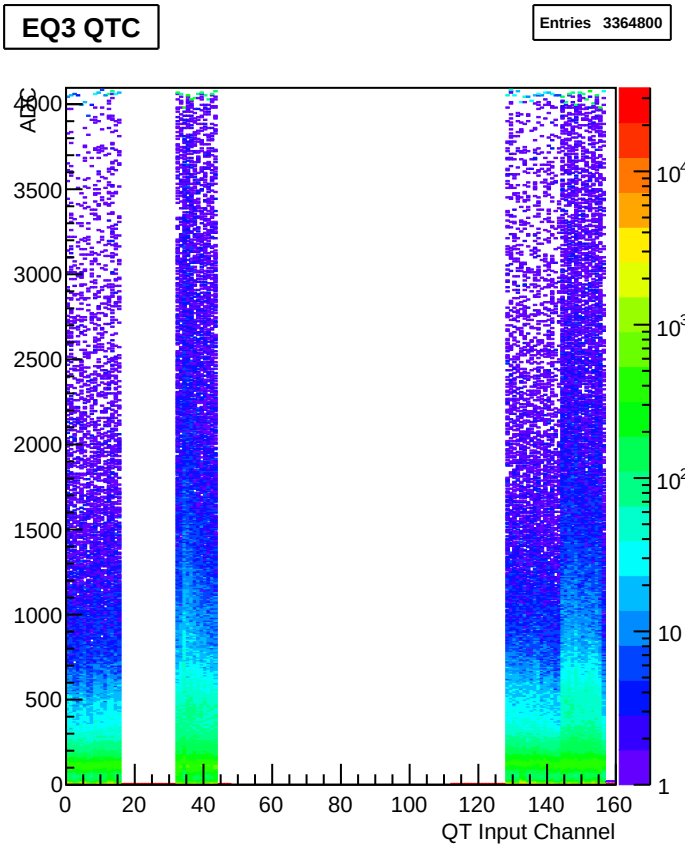

EQ2 QTB
Entries 3587443
TDC
QT Input Channel

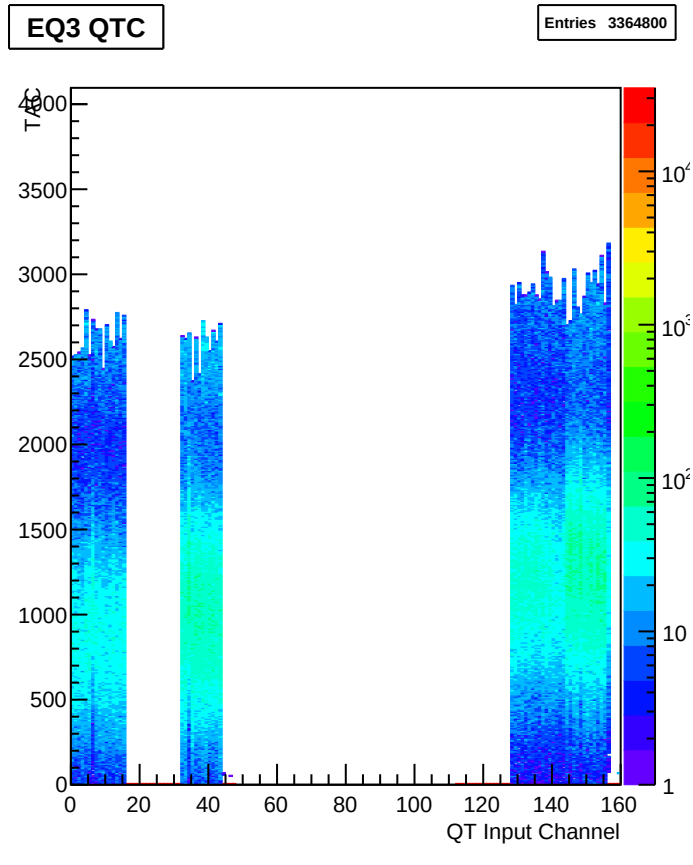

EQ2 QTC
Entries 3364800
ADC
QT Input Channel

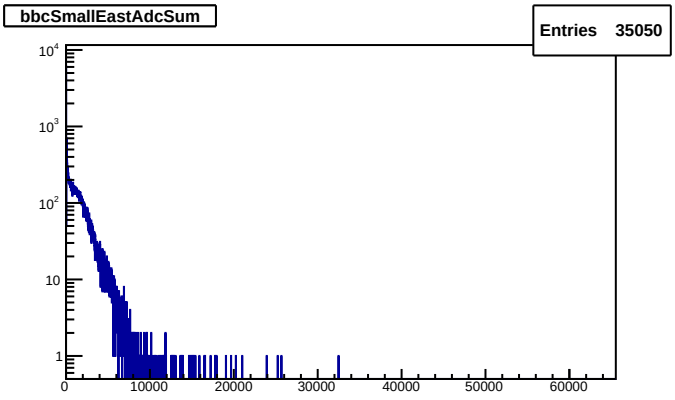

EQ2 QTC
Entries 3364800
TADC
QT Input Channel

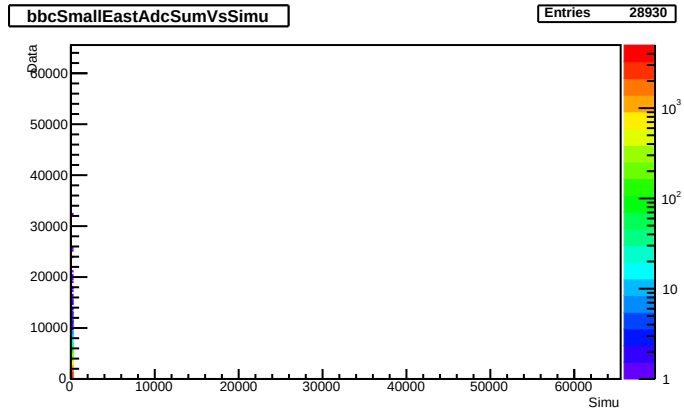

EQ3 QTB
Entries 8972800
ADC
QT Input Channel

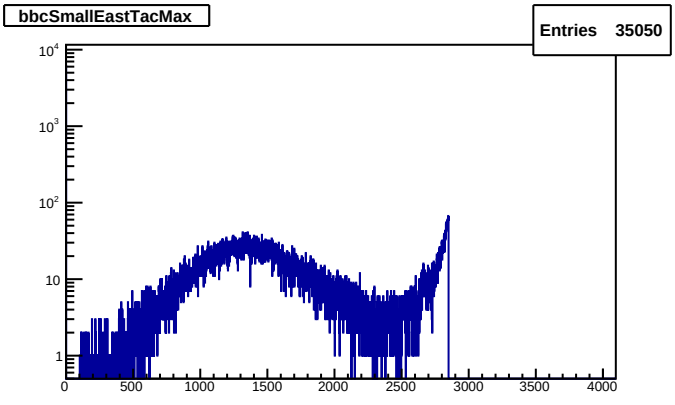

EQ3 QTB
Entries 2826789
TDC
QT Input Channel

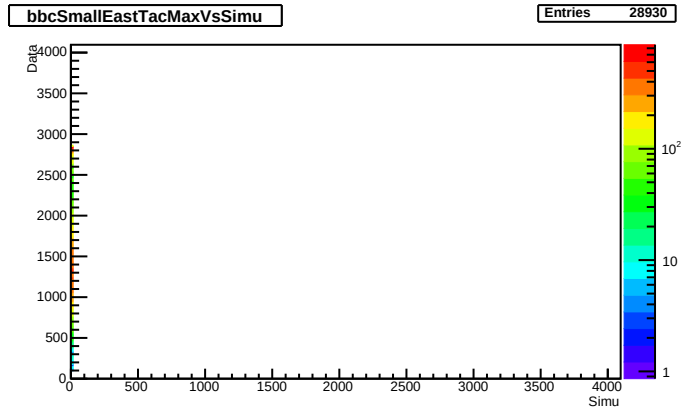

EQ3 QTC
Entries 3364800
ADC
QT Input Channel

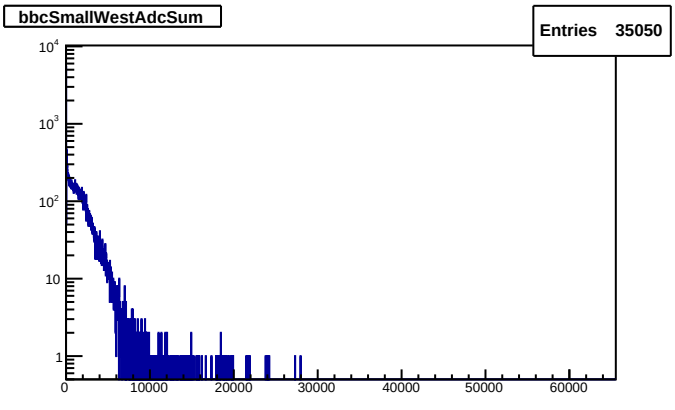

EQ3 QTC
Entries 3364800
TADC
QT Input Channel

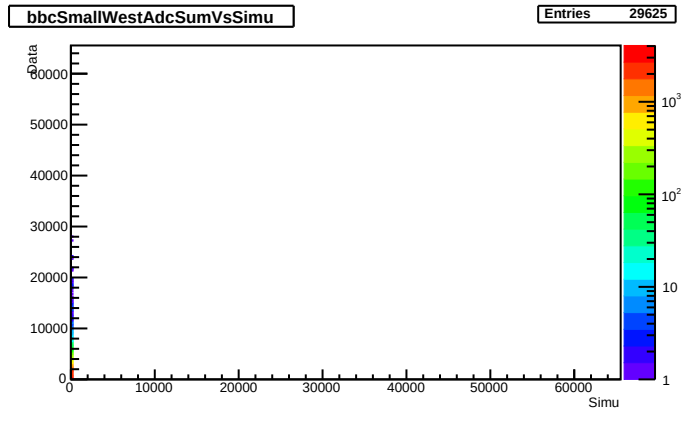

bbcSmallEastAdcSum
Entries 35050

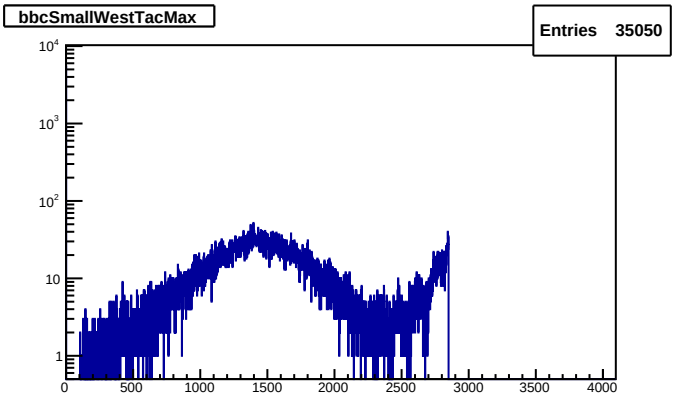

bbcSmallEastAdcSumVsSimu
Entries 28930
Data
Simu

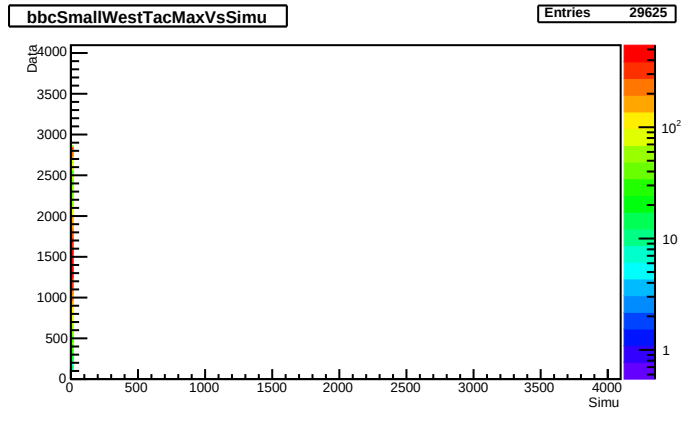

bbcSmallEastTacMax
Entries 35050

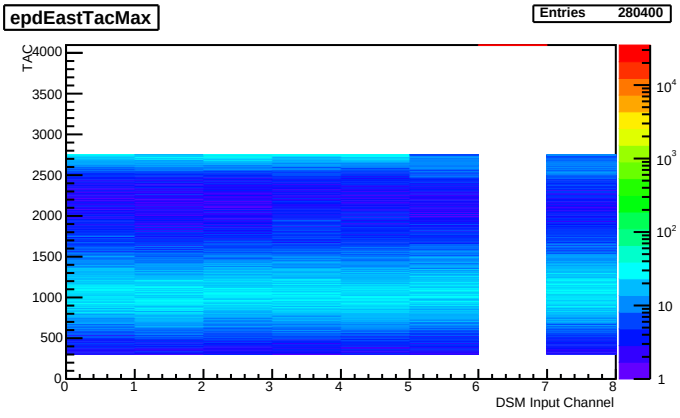

bbcSmallEastTacMaxVsSimu
Entries 28930
Data
Simu

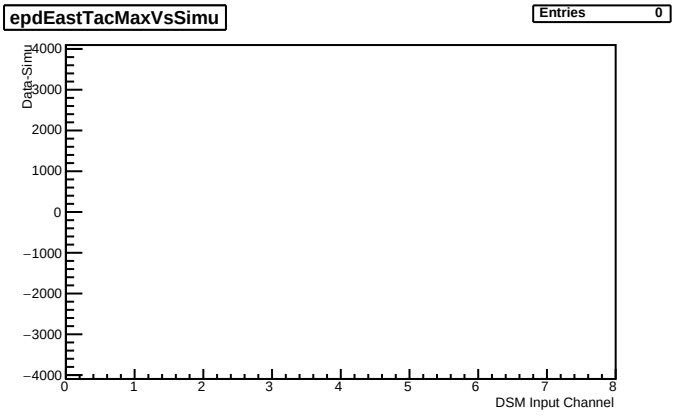

bbcSmallWestAdcSum
Entries 35050

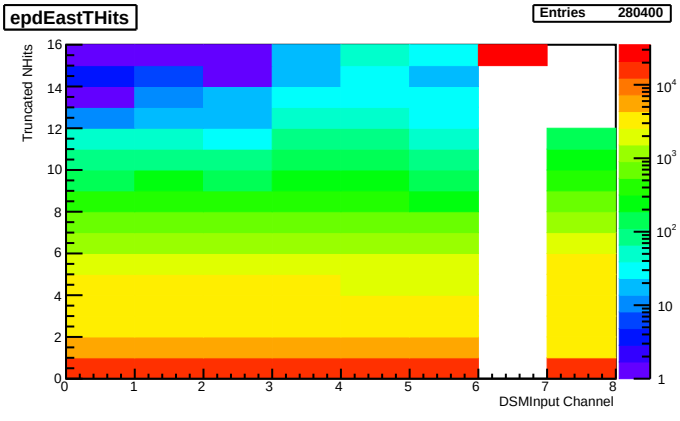

bbcSmallWestAdcSumVsSimu
Entries 29625
Data
Simu

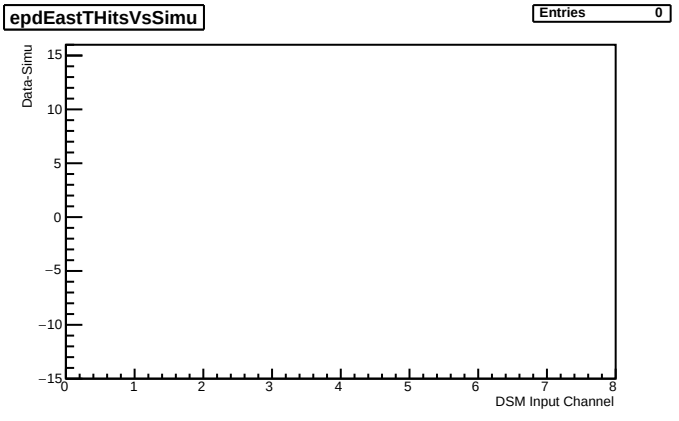

bbcSmallWestTacMax
Entries 35050

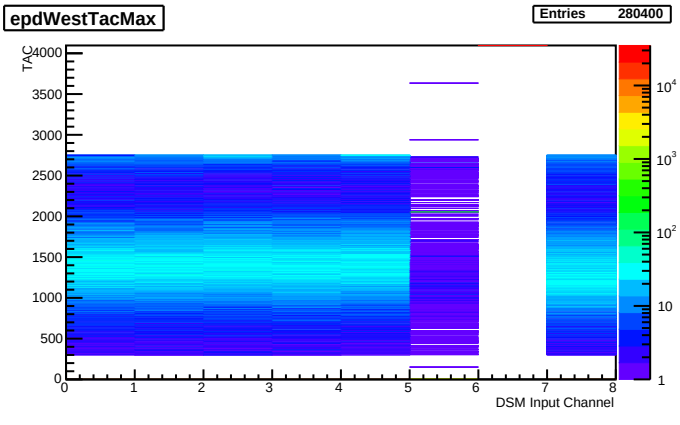

bbcSmallWestTacMaxVsSimu
Entries 29625
Data
Simu

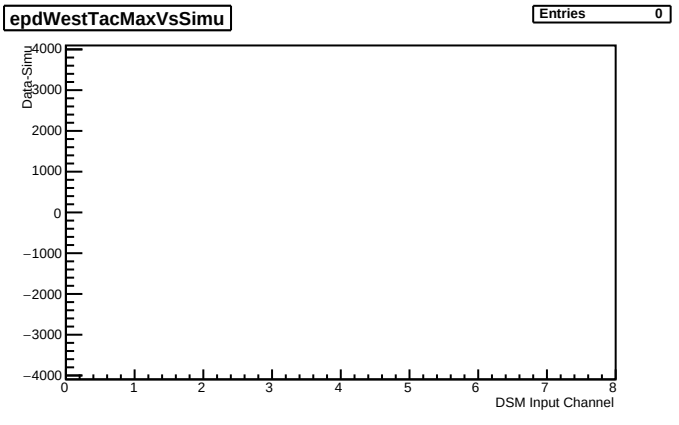

epdEastTacMax
Entries 280400
TAC
DSM Input Channel

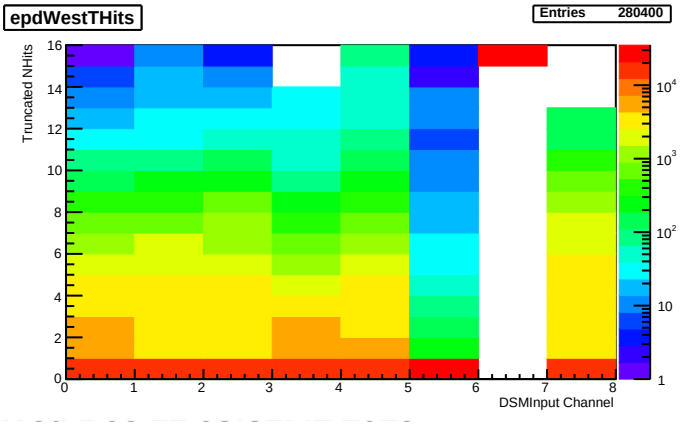

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

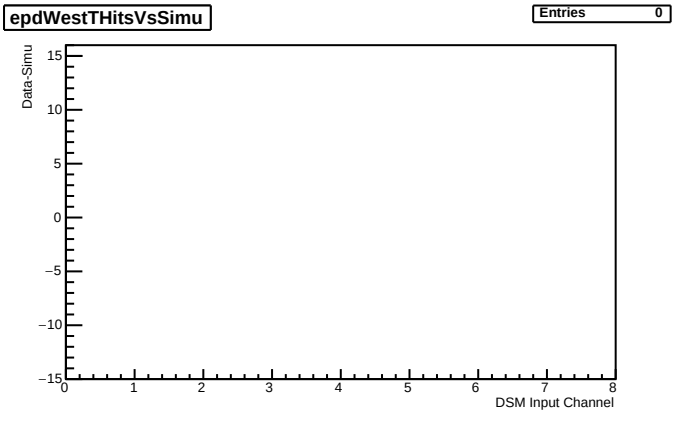

epdEastTHits
Entries 280400
Truncated NHits
DSMInput Channel

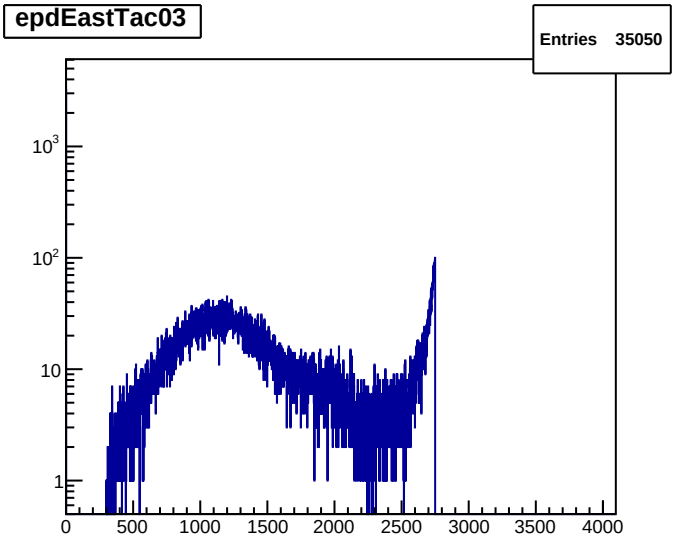

epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

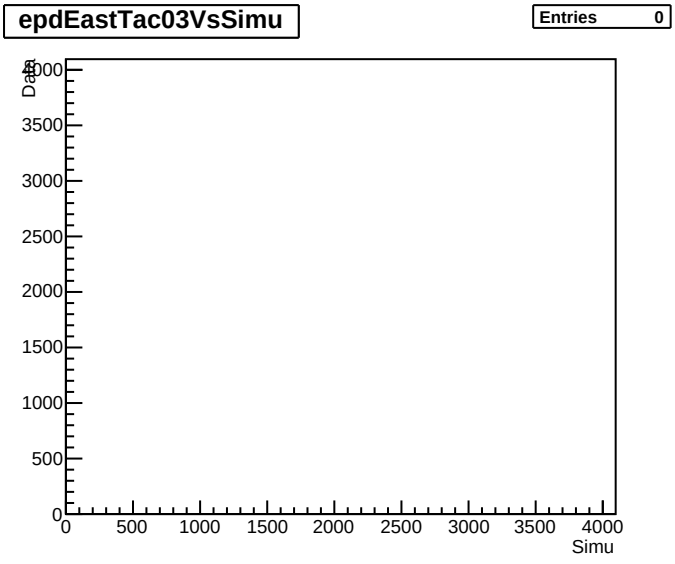

epdWestTacMax
Entries 280400
TAC
DSM Input Channel

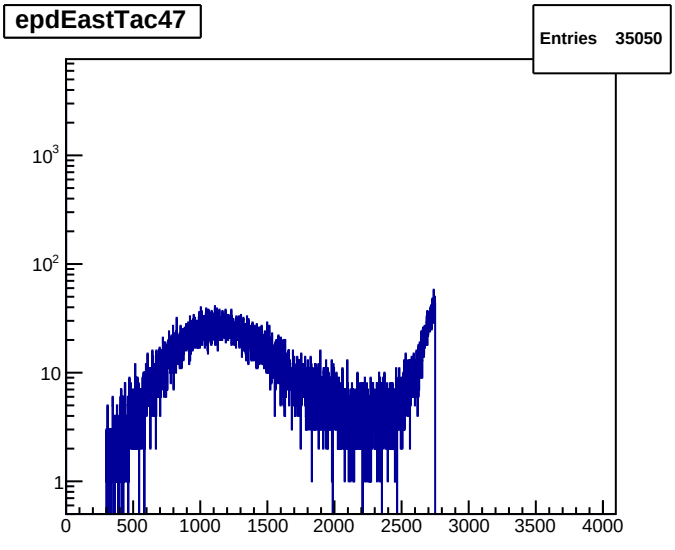

epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

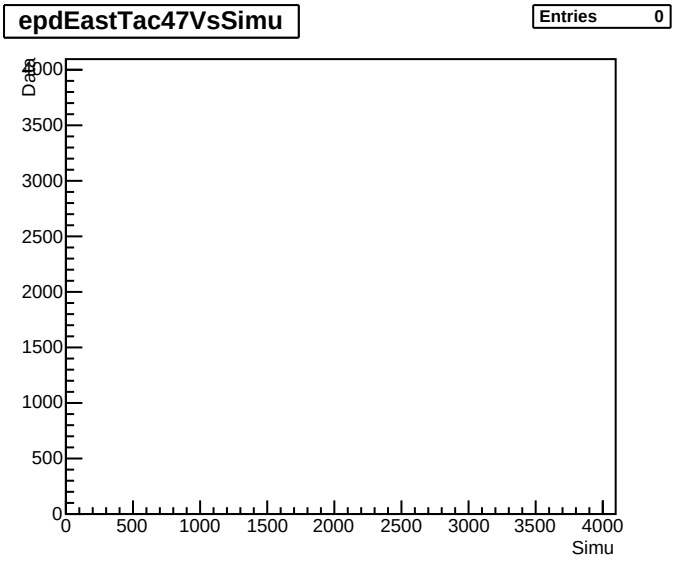

epdWestTHits
Entries 280400
Truncated NHits
DSMInput Channel

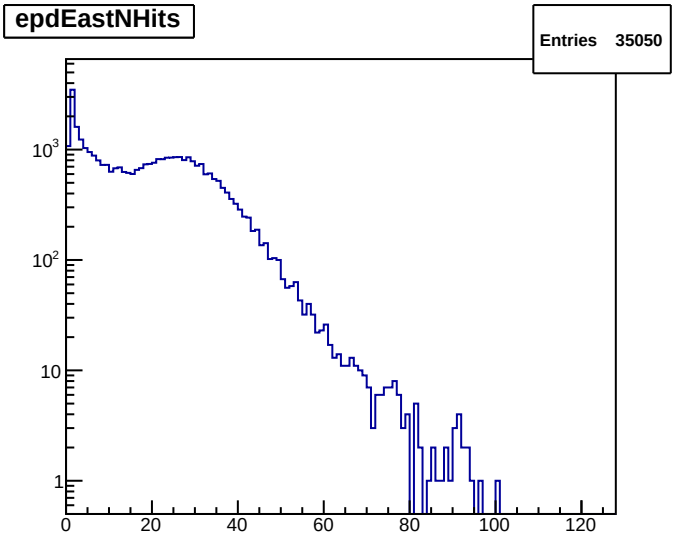

epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel

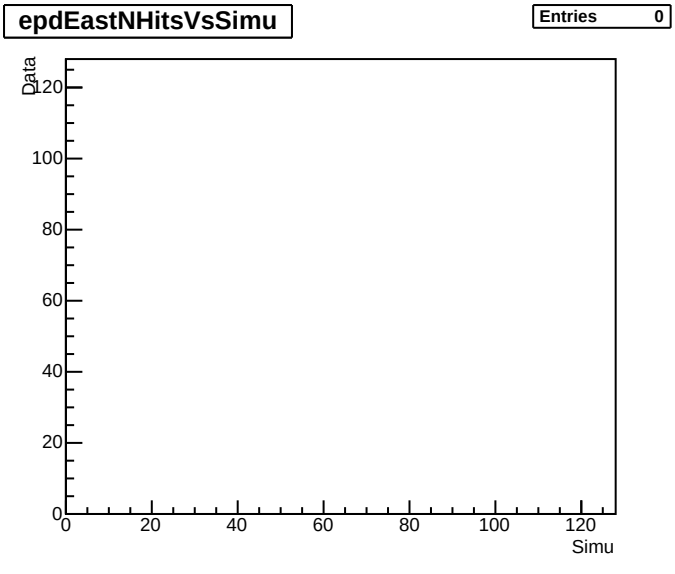

epdEastTac03
Entries 35050
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

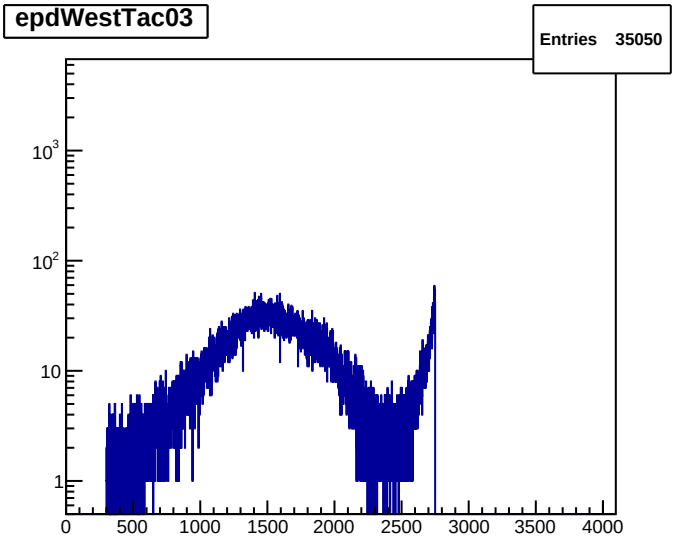

epdEastTac03VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

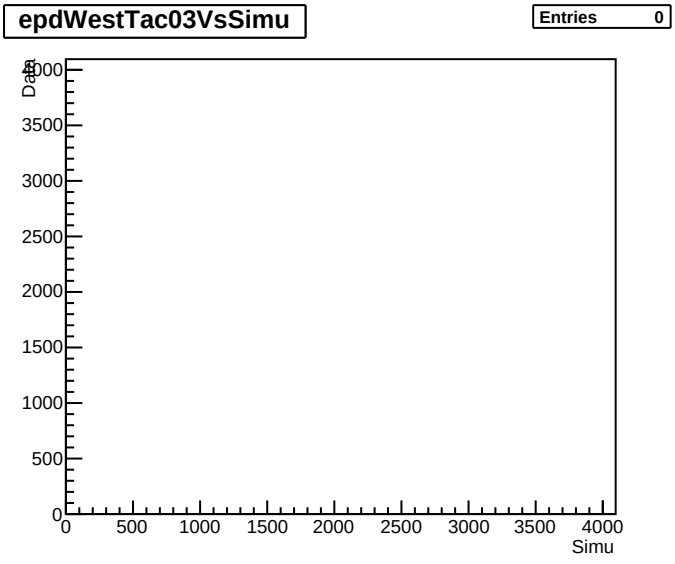

epdEastTac47
Entries 35050
10^3
10^2
10
1
0 500 1000 1500 2000 2500 3000 3500 4000

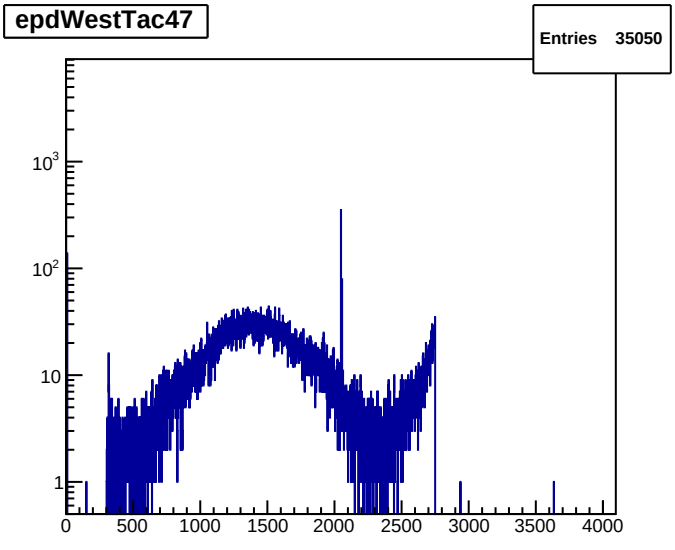

epdEastTac47VsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu

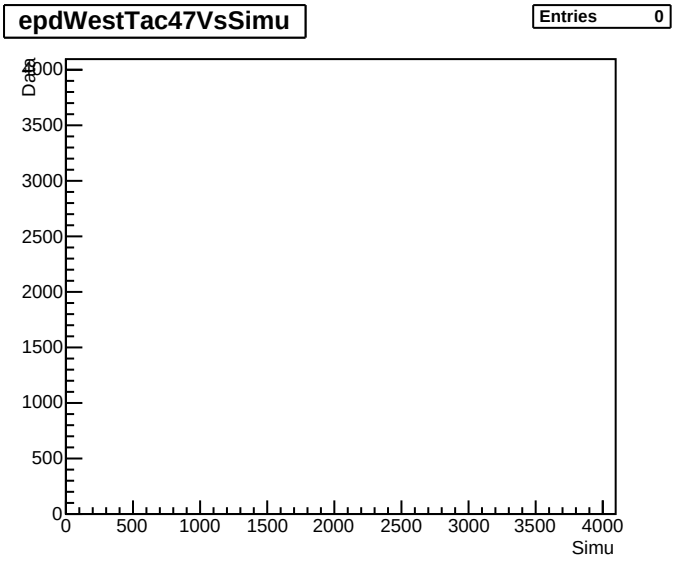

epdEastNHits
Entries 35050
10^3
10^2
10
1
0 20 40 60 80 100 120

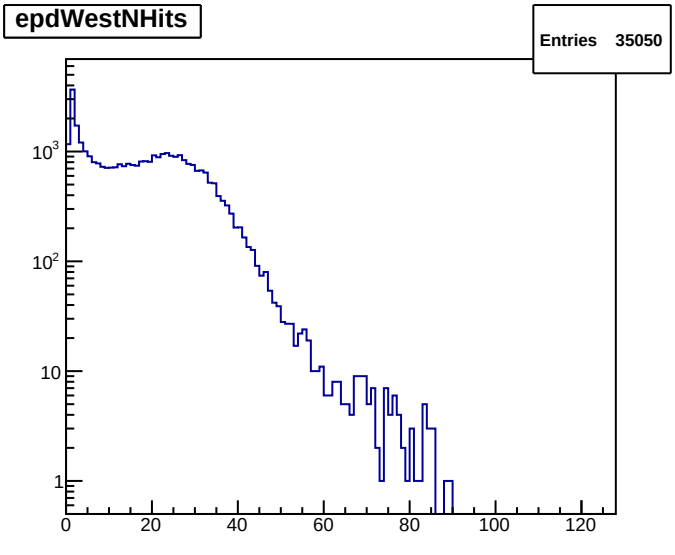

epdEastNHitsVsSimu
Entries 0
Data
120
100
80
60
40
20
0
0 20 40 60 80 100 120
Simu

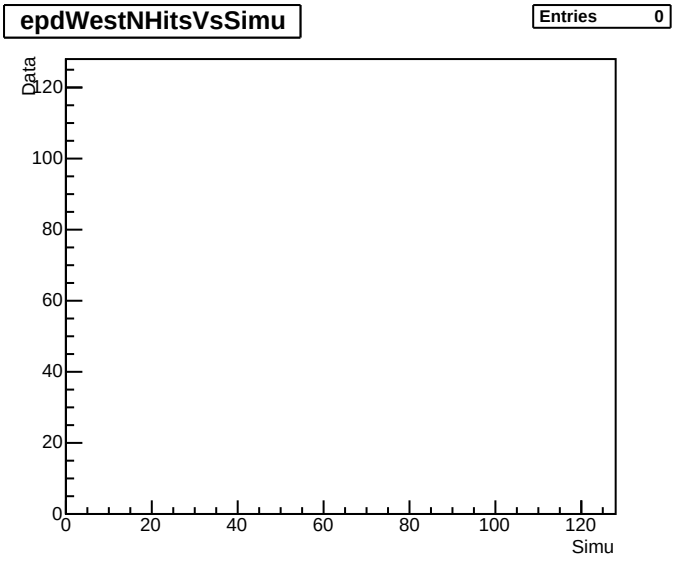

epdWestTac03
Entries 35050

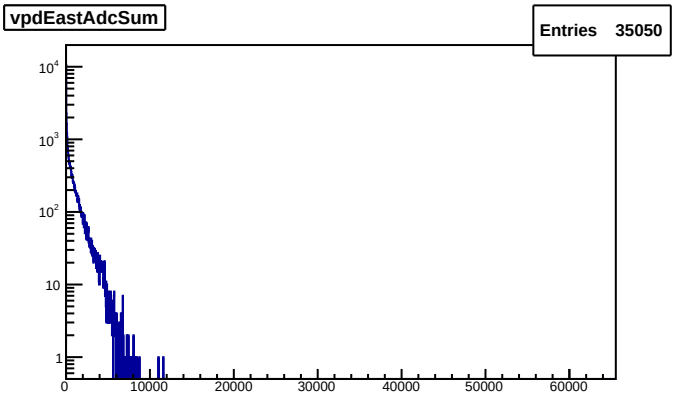

epdWestTac03VsSimu
Entries 0
Data
Simu

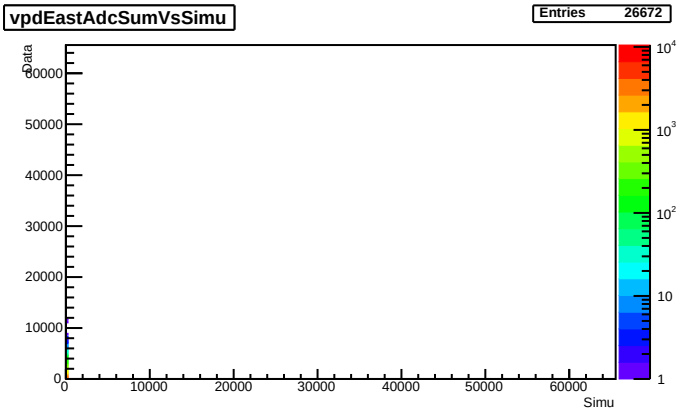

epdWestTac47
Entries 35050

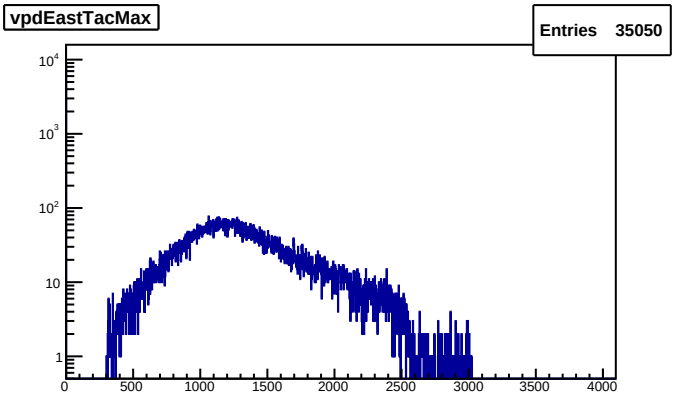

epdWestTac47VsSimu
Entries 0
Data
Simu

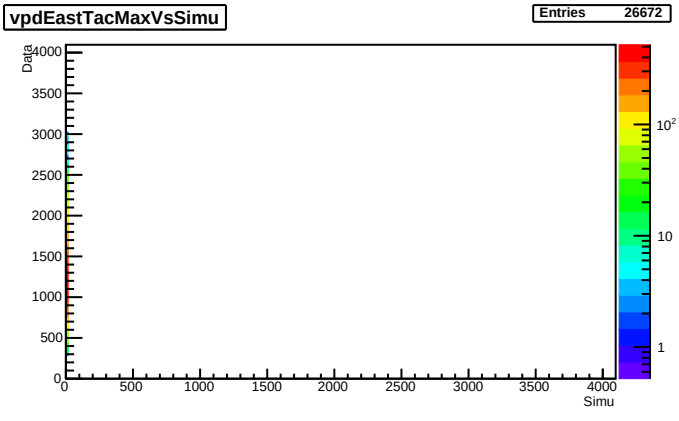

epdWestNHits
Entries 35050

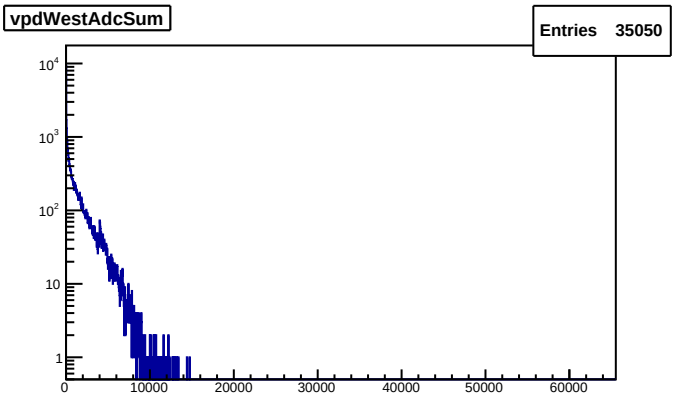

epdWestNHitsVsSimu
Entries 0
Data
Simu

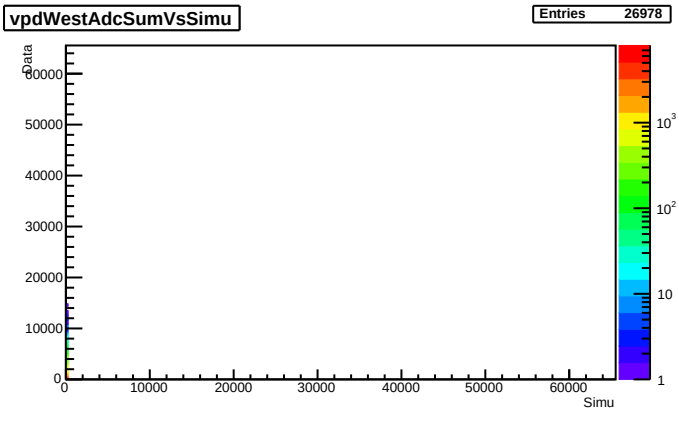

vpdEastAdcSum
Entries 35050

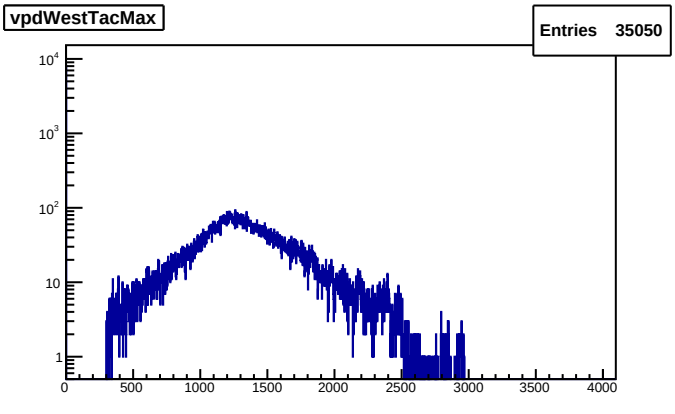

vpdEastAdcSumVsSimu
Entries 26672
Data
Simu

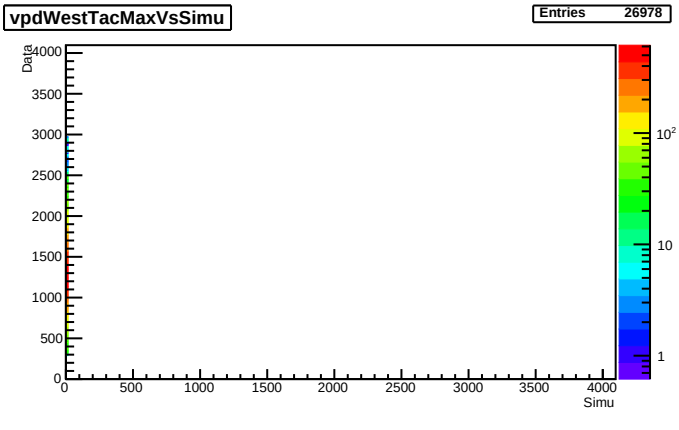

vpdEastTacMax
Entries 35050

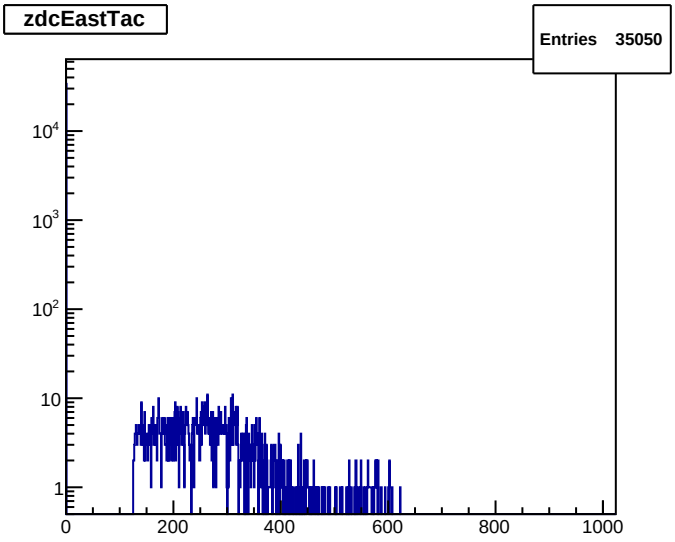

vpdEastTacMaxVsSimu
Entries 26672
Data
Simu

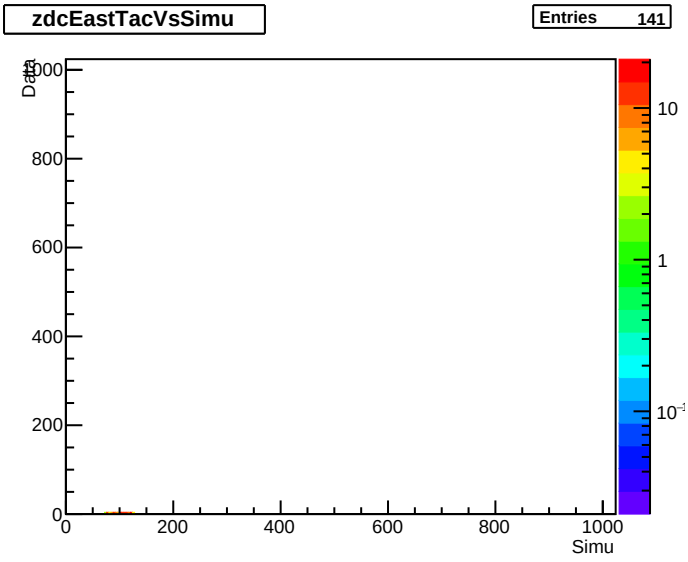

vpdWestAdcSum
Entries 35050

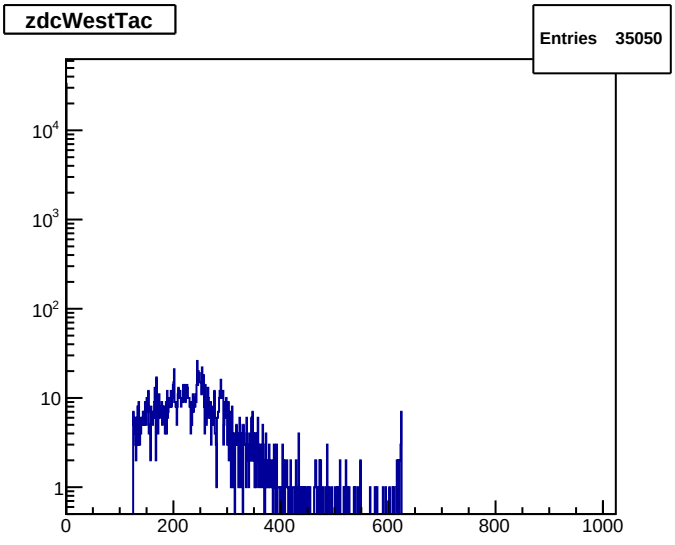

vpdWestAdcSumVsSimu
Entries 26978
Data
Simu

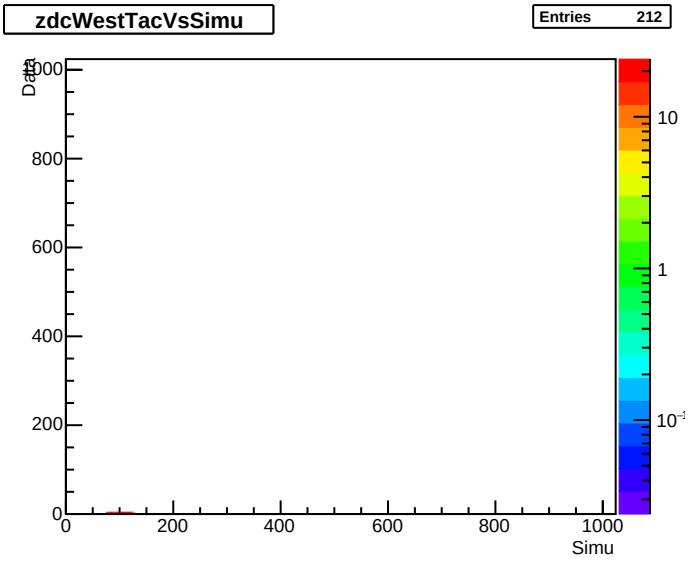

vpdWestTacMax
Entries 35050

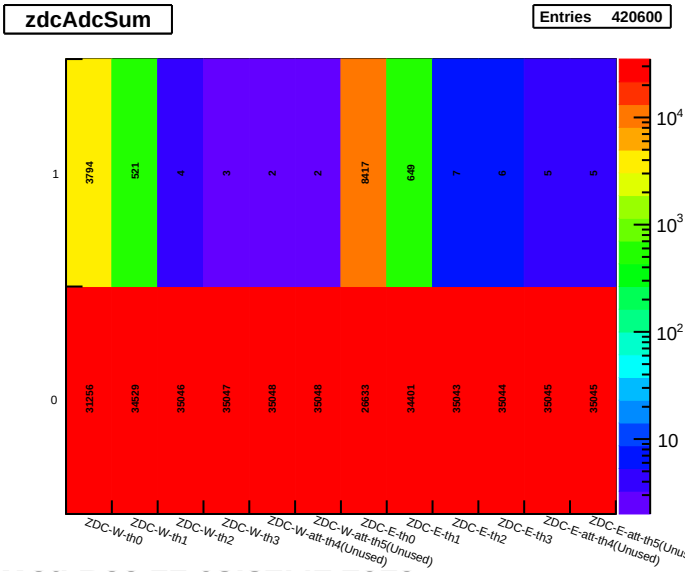

vpdWestTacMaxVsSimu
Entries 26978
Data
Simu

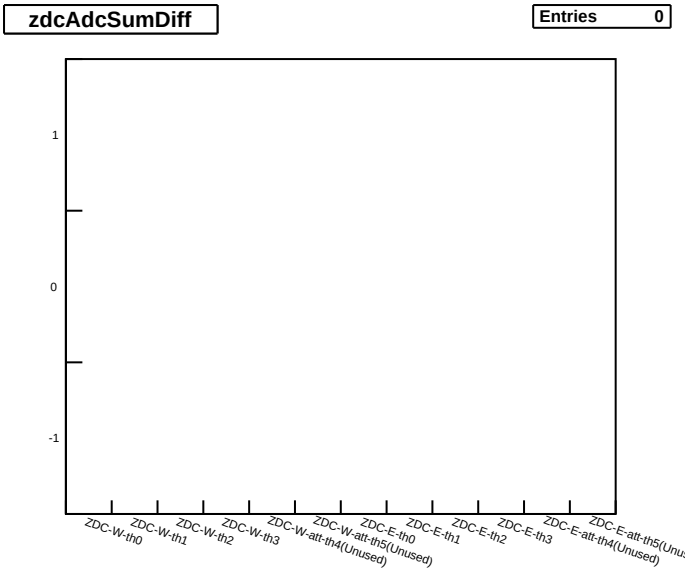

zdcEastTac
Entries 35050

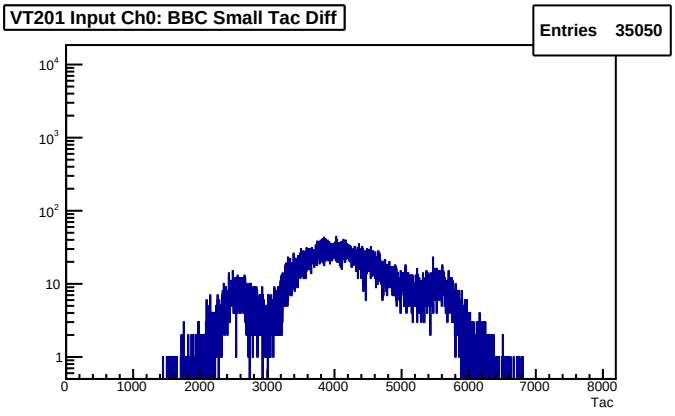

zdcEastTacVsSimu
Entries 141
Data
Simu

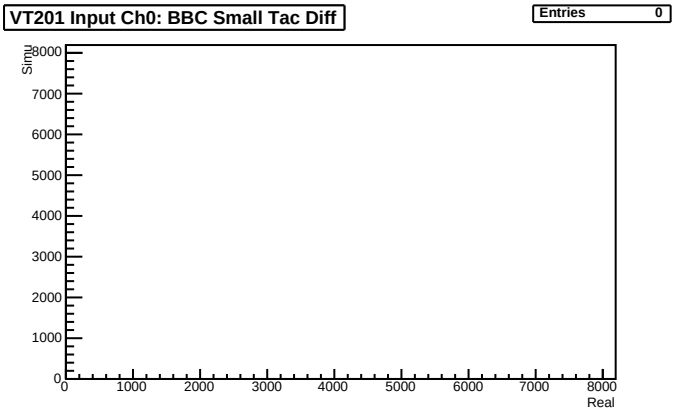

zdcWestTac
Entries 35050

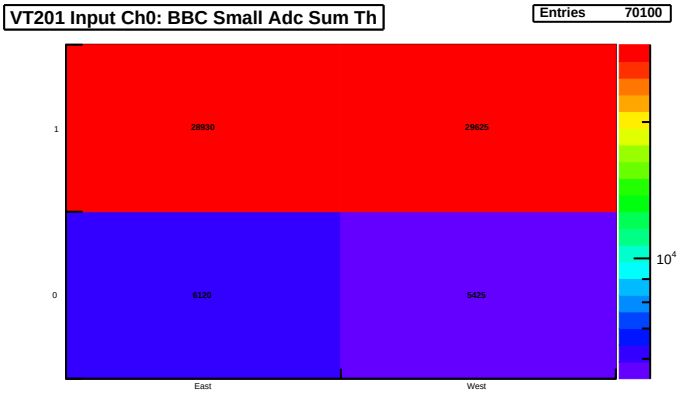

zdcWestTacVsSimu
Entries 212
Data
Simu

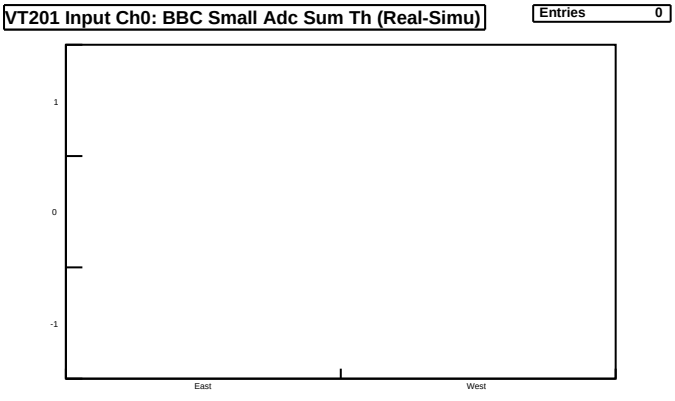

zdcAdcSum
Entries 420600
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

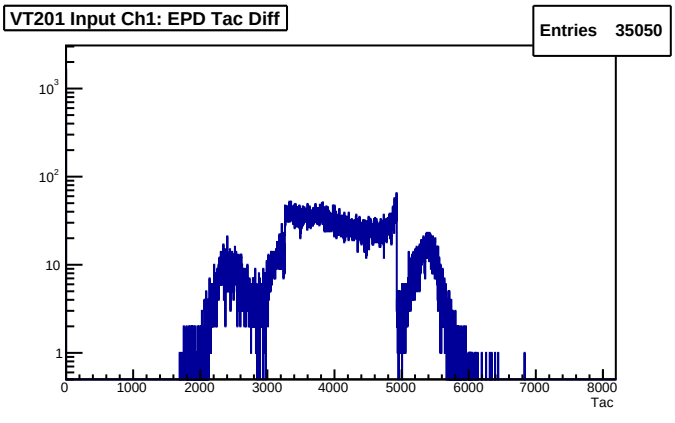

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

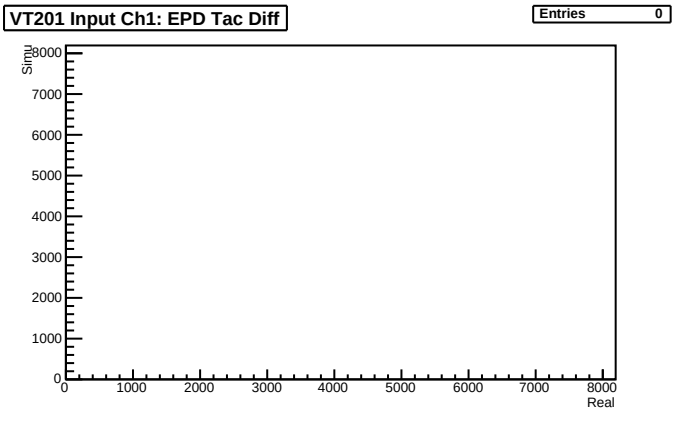

VT201 Input Ch0: BBC Small Tac Diff
Entries 35050
Tac

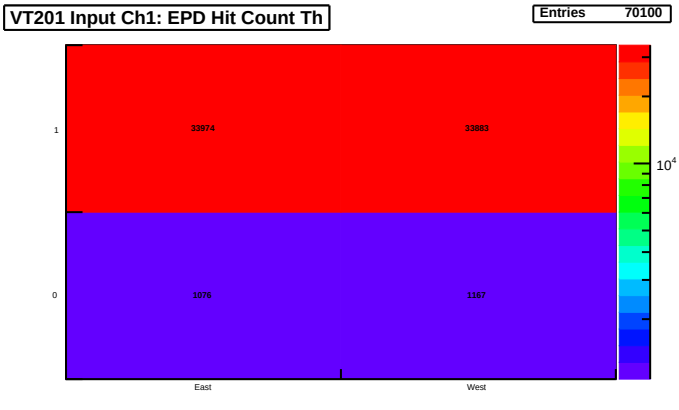

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

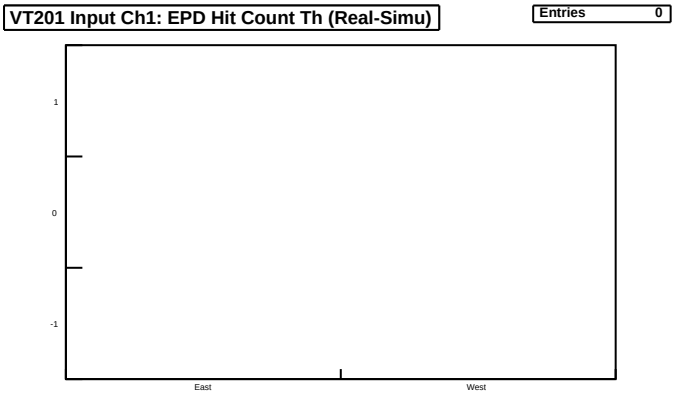

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 70100
28930
29625
6120
5425
East
West

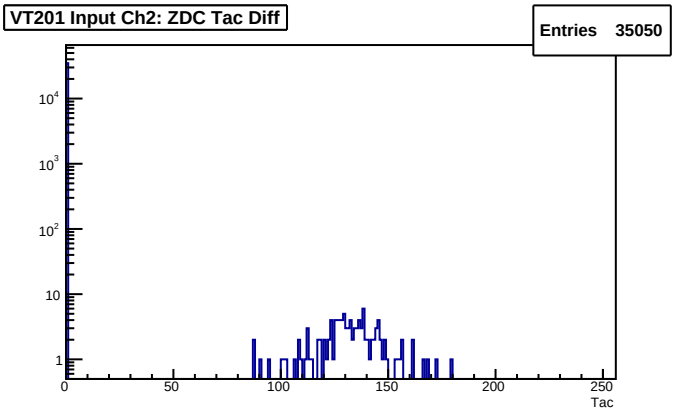

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

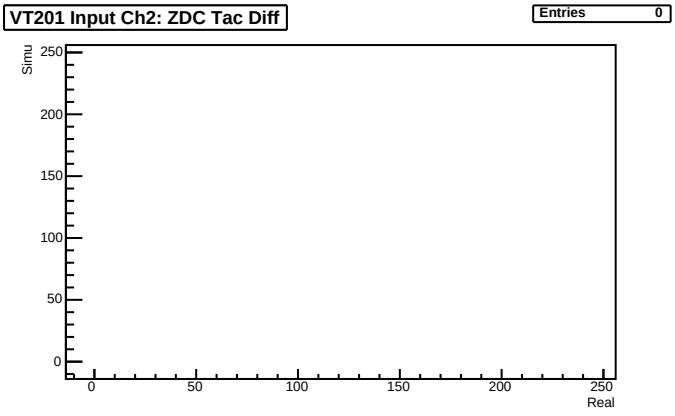

VT201 Input Ch1: EPD Tac Diff
Entries 35050
Tac

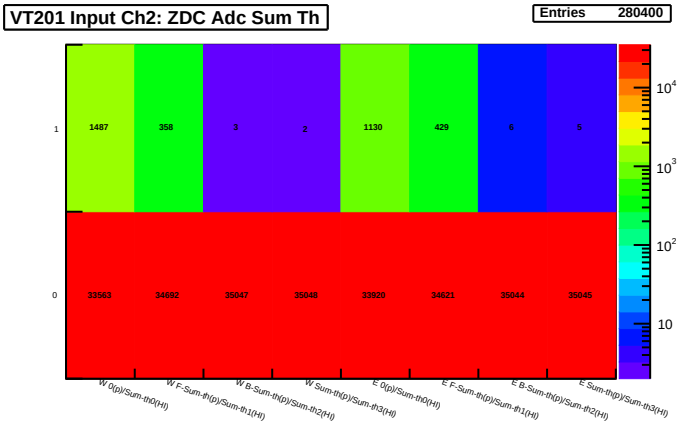

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

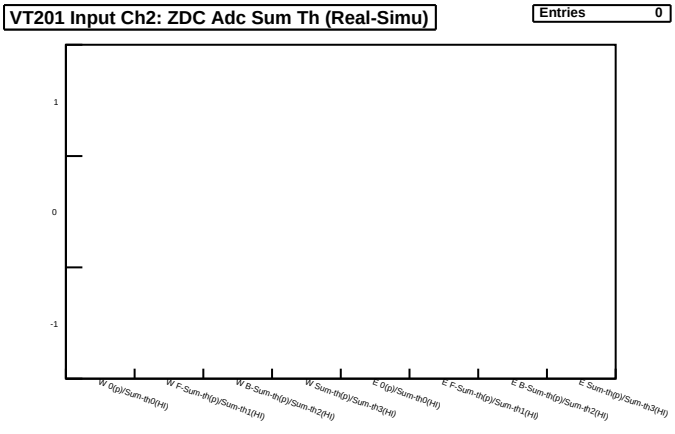

VT201 Input Ch1: EPD Hit Count Th
Entries 70100
33974
33883
1076
1167
East
West

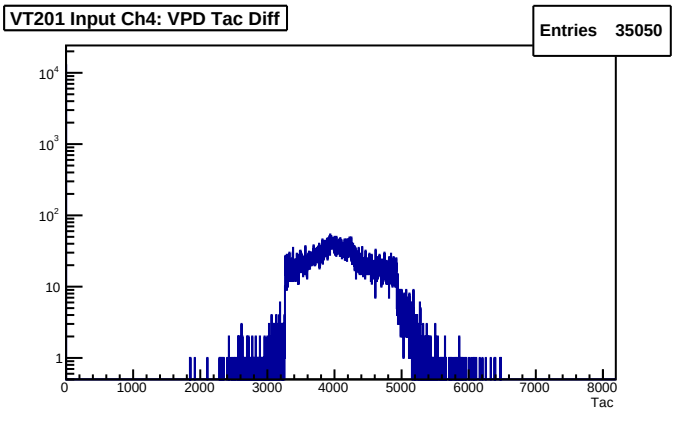

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

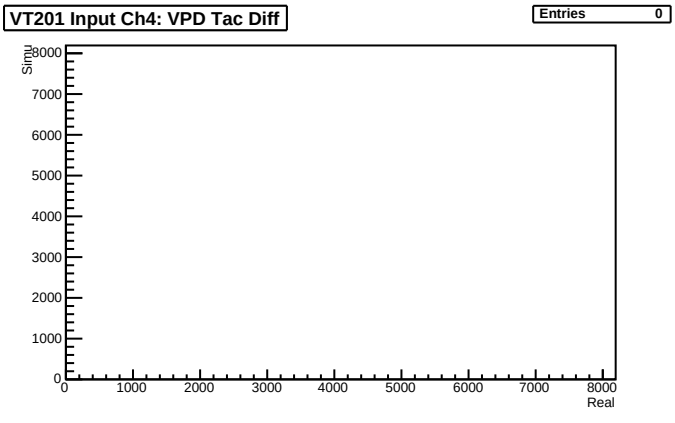

VT201 Input Ch2: ZDC Tac Diff
Entries 35050
Tac

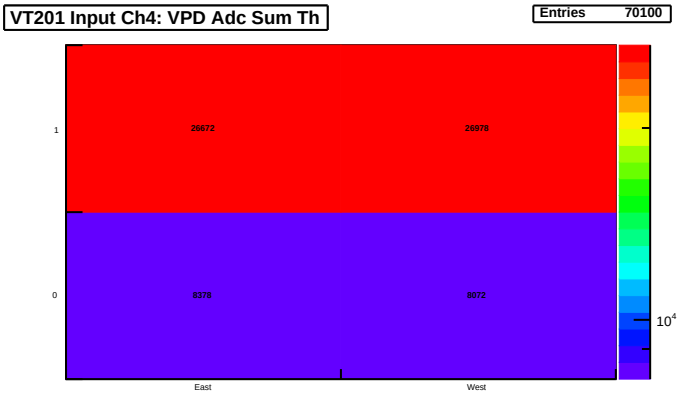

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

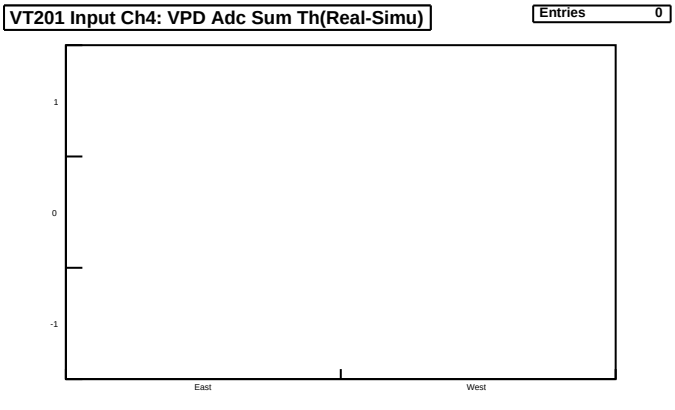

VT201 Input Ch2: ZDC Adc Sum Th
Entries 280400
1487
358
3
2
1130
429
6
5
33563
34692
35047
35048
33920
34621
35044
35045
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

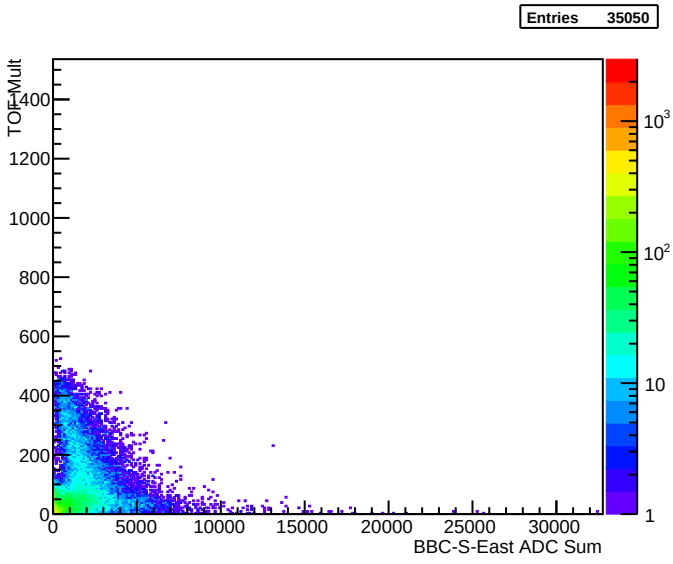

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

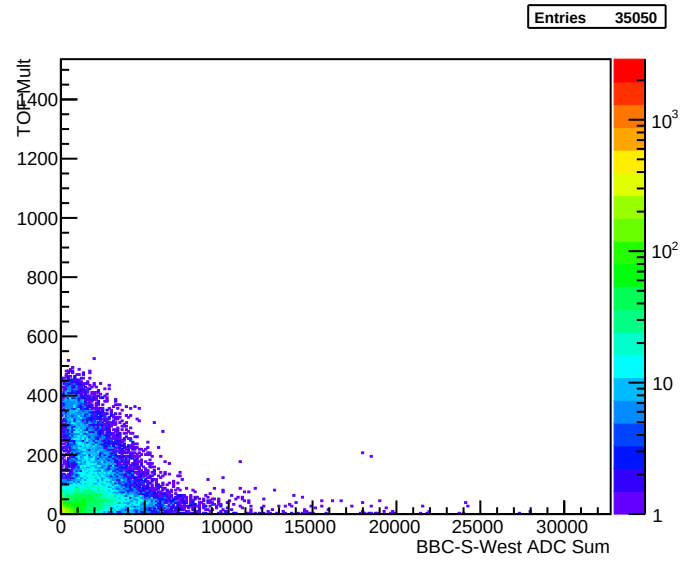

VT201 Input Ch4: VPD Tac Diff
Entries 35050
Tac

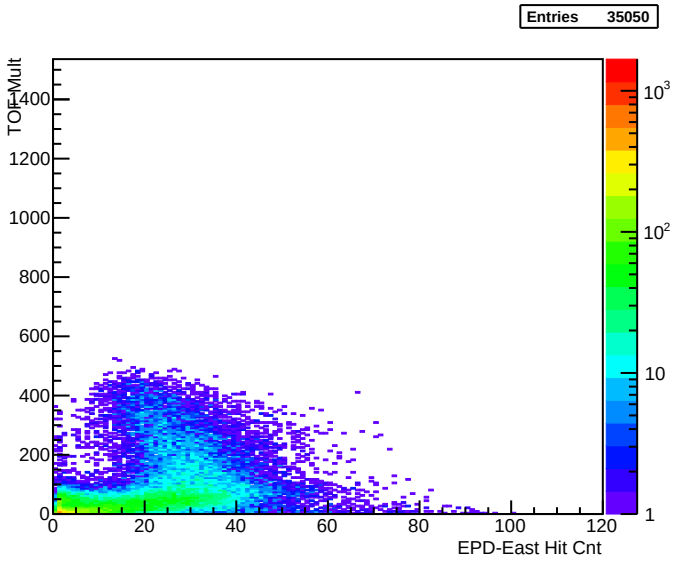

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

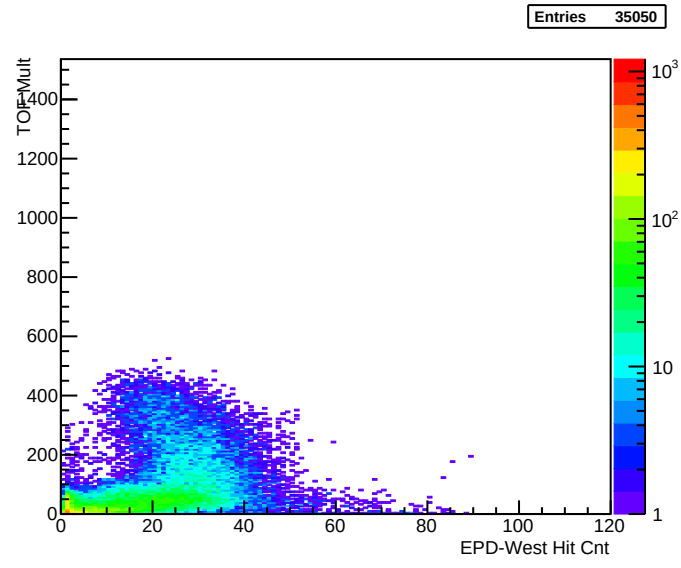

VT201 Input Ch4: VPD Adc Sum Th
Entries 70100
26672
26978
8378
8072
East
West

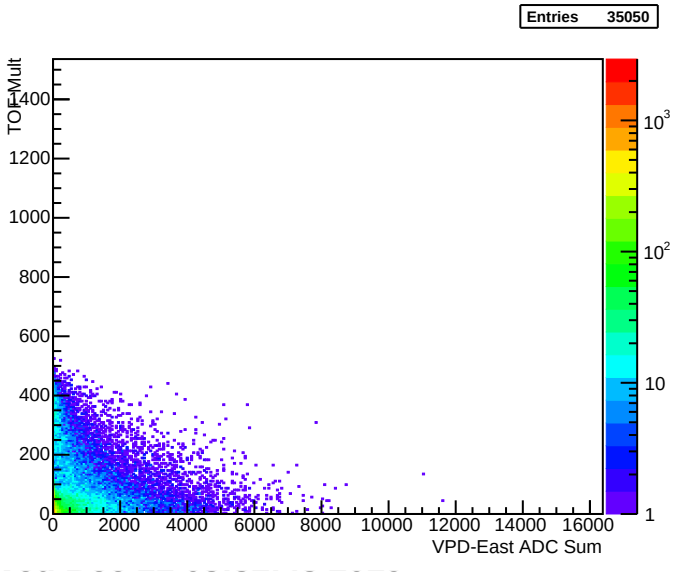

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

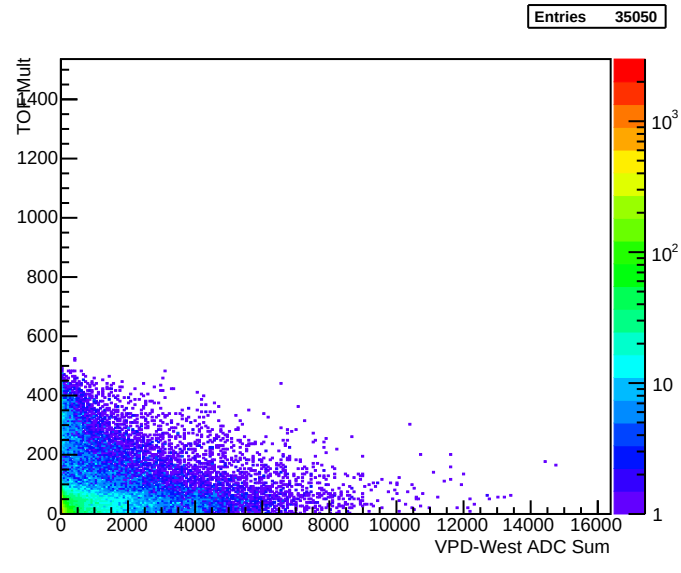

Entries 35050
TOF-Mult
BBC-S-East ADC Sum

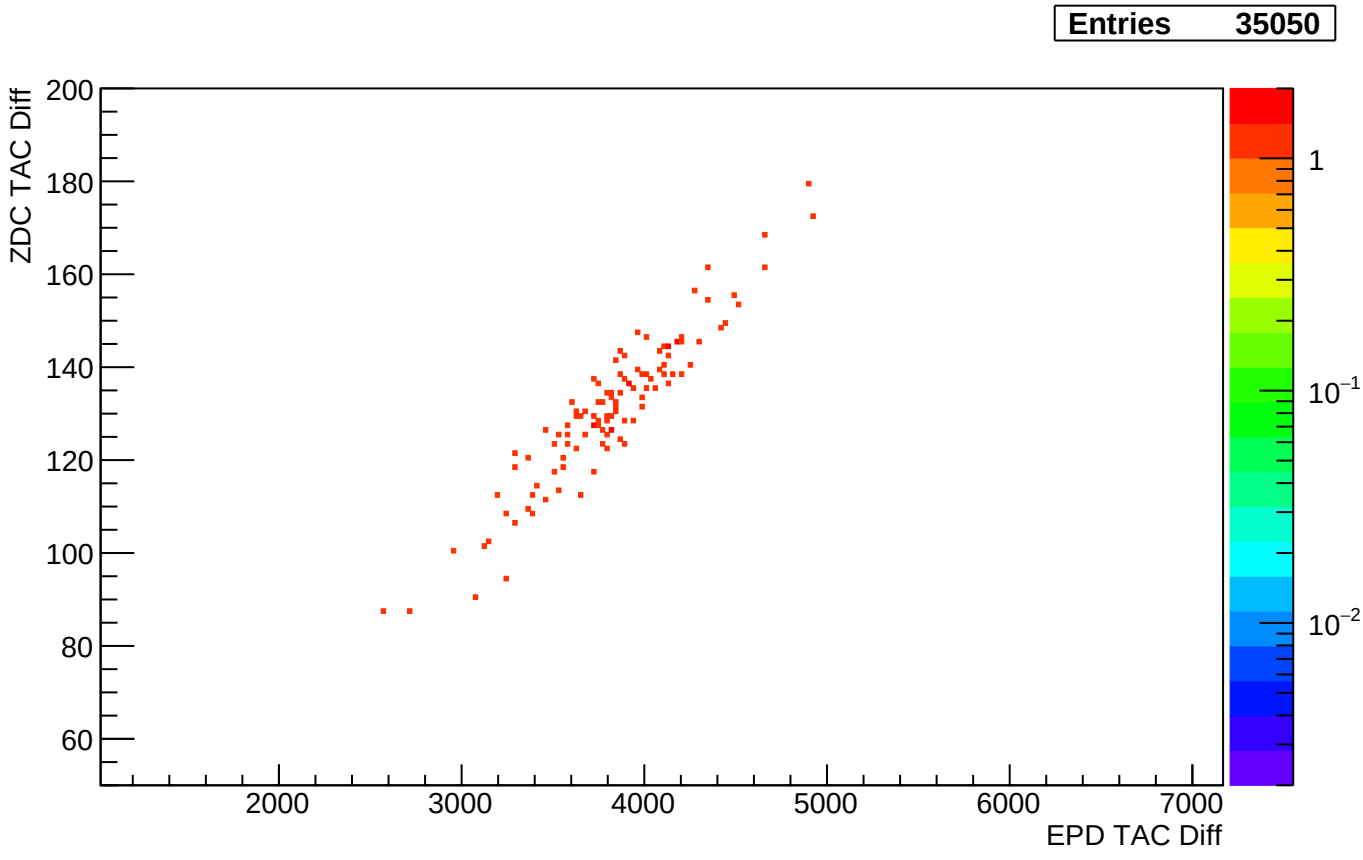

Entries 35050
TOF-Mult
BBC-S-West ADC Sum

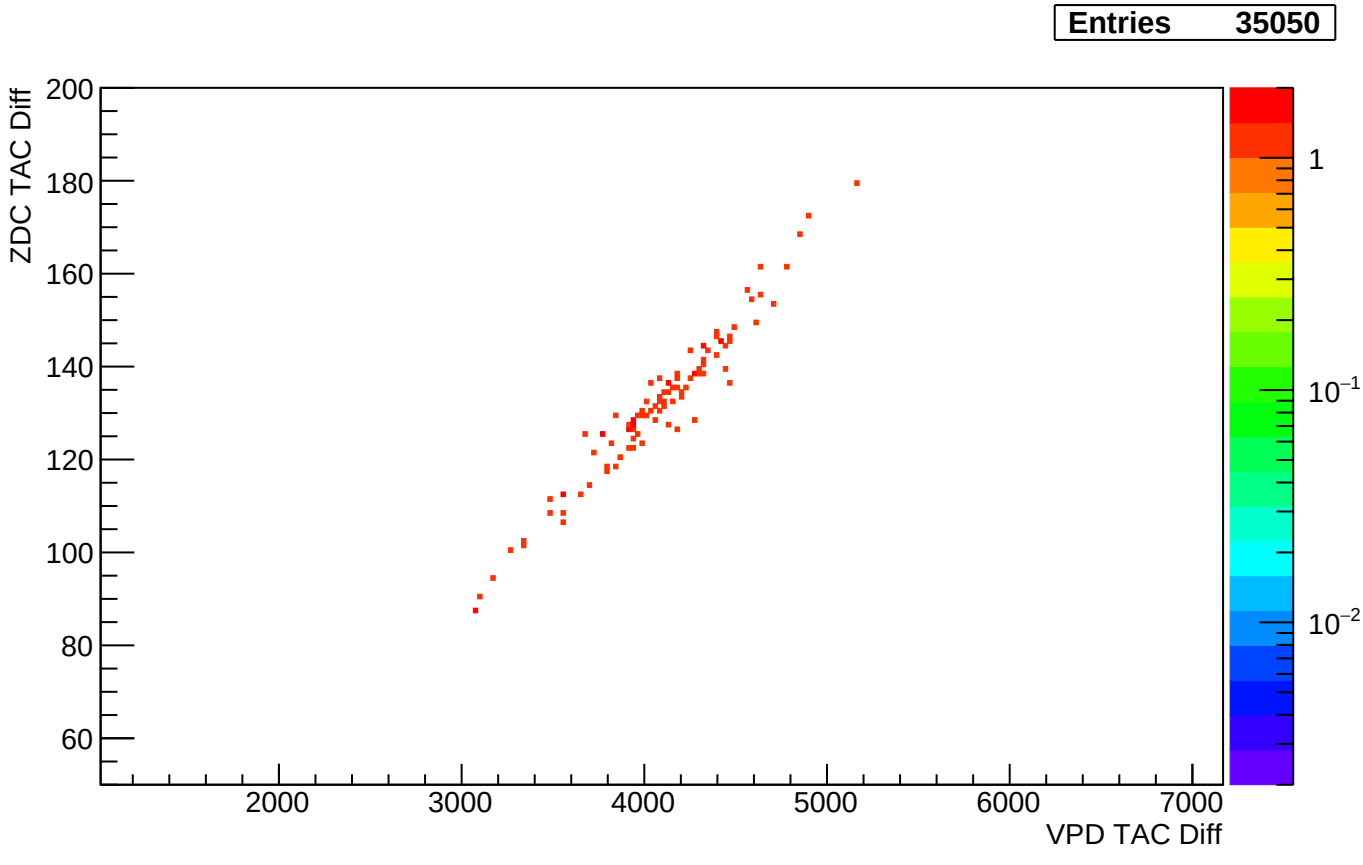

Entries 35050
TOF-Mult
EPD-East Hit Cnt

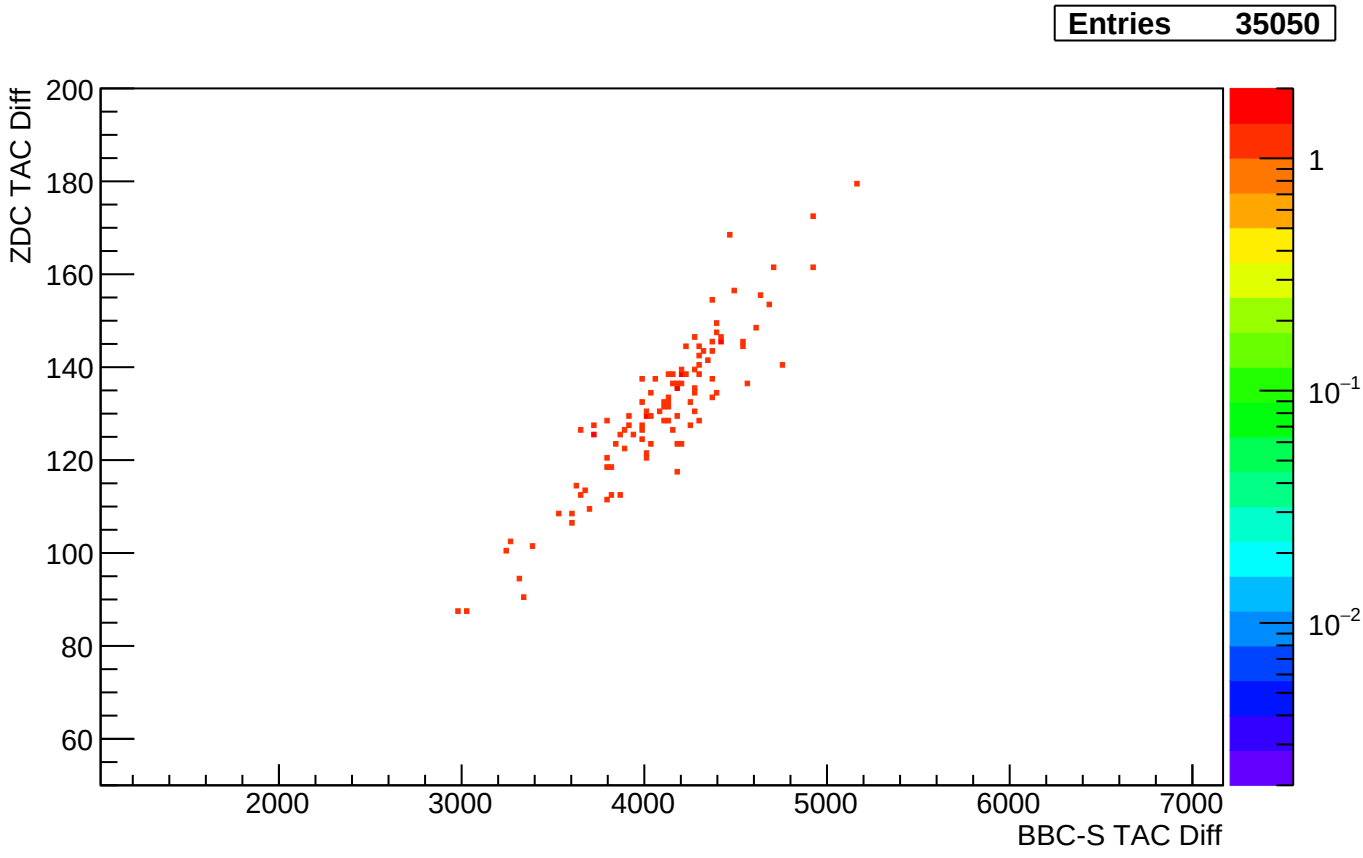

Entries 35050
TOF-Mult
EPD-West Hit Cnt

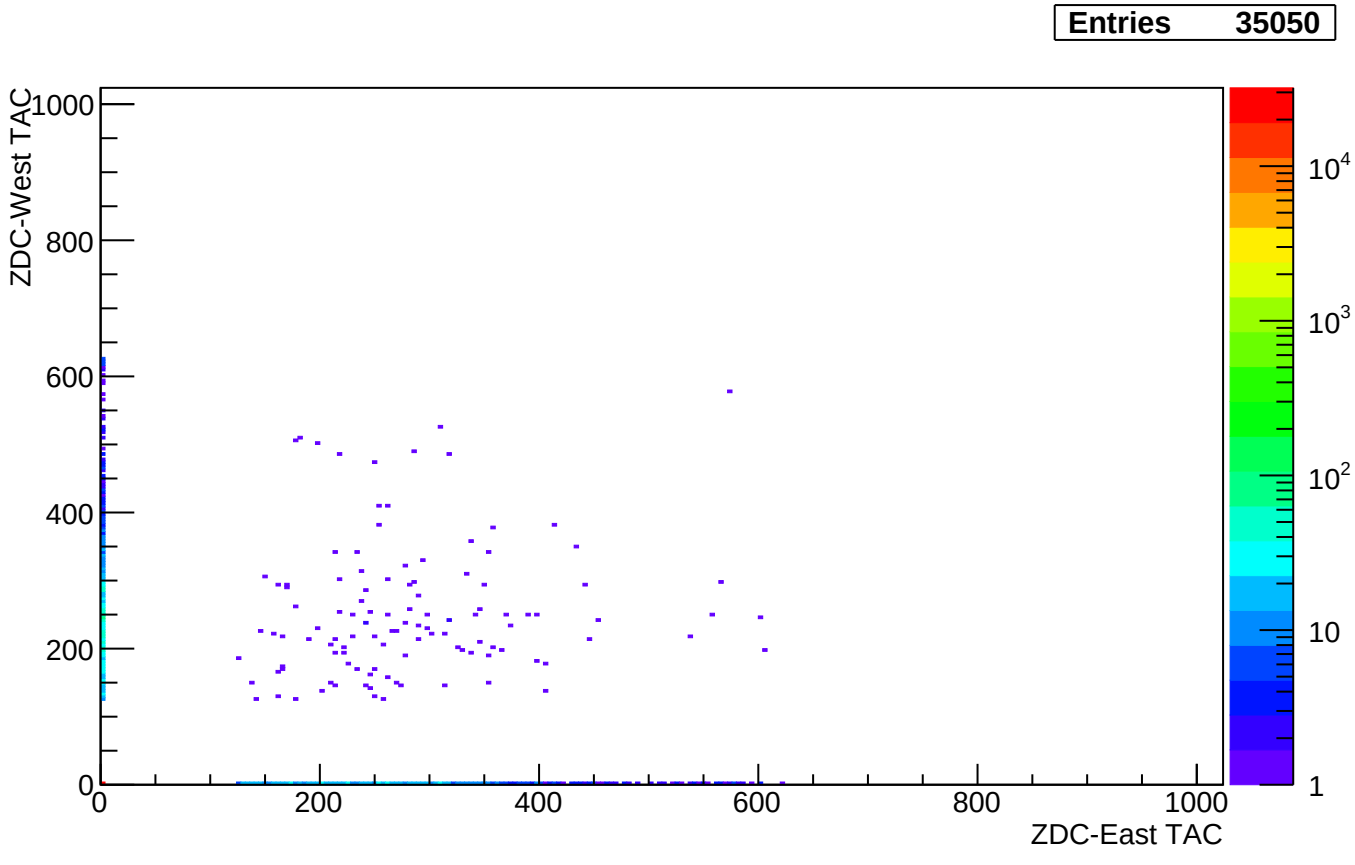

Entries 35050
TOF-Mult
VPD-East ADC Sum

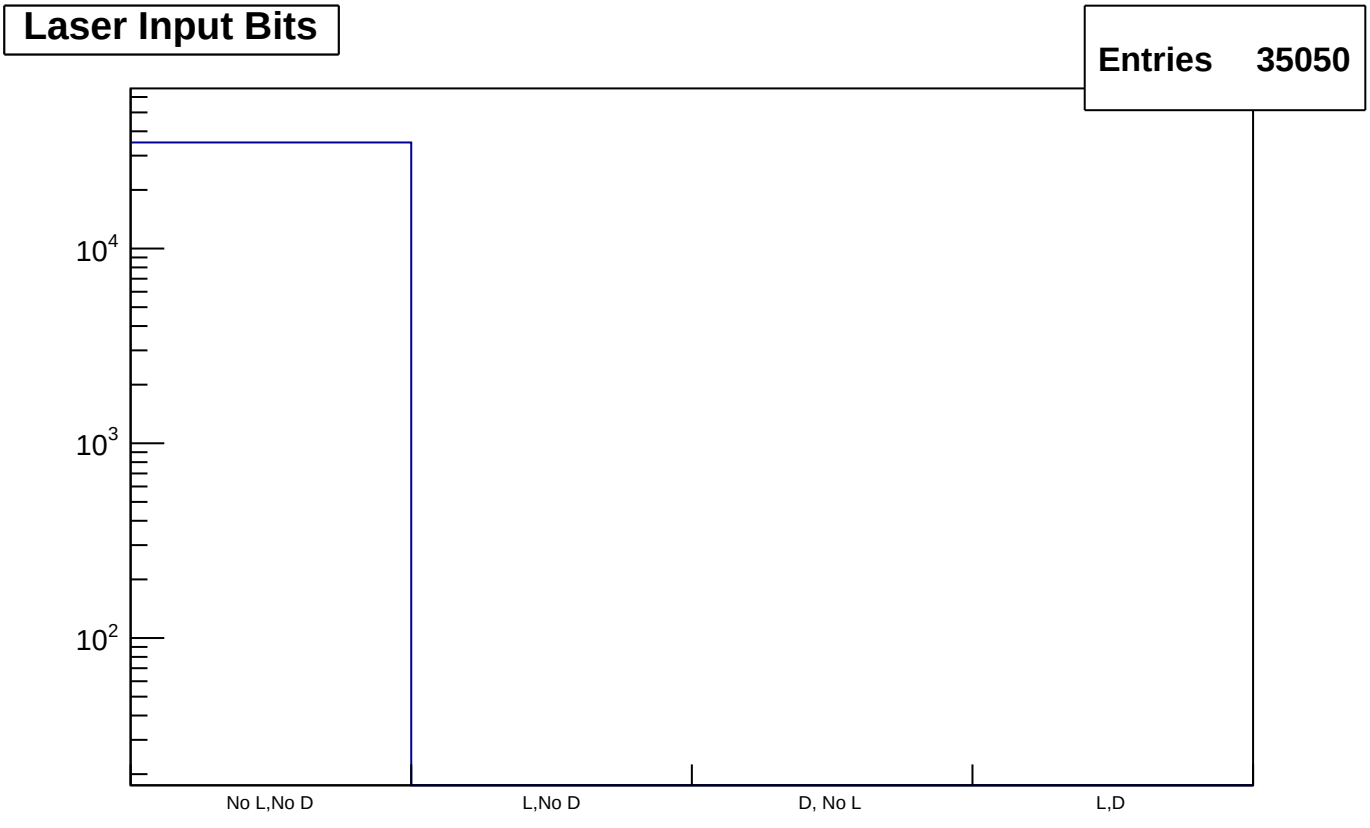

Entries 35050
TOF-Mult
VPD-West ADC Sum

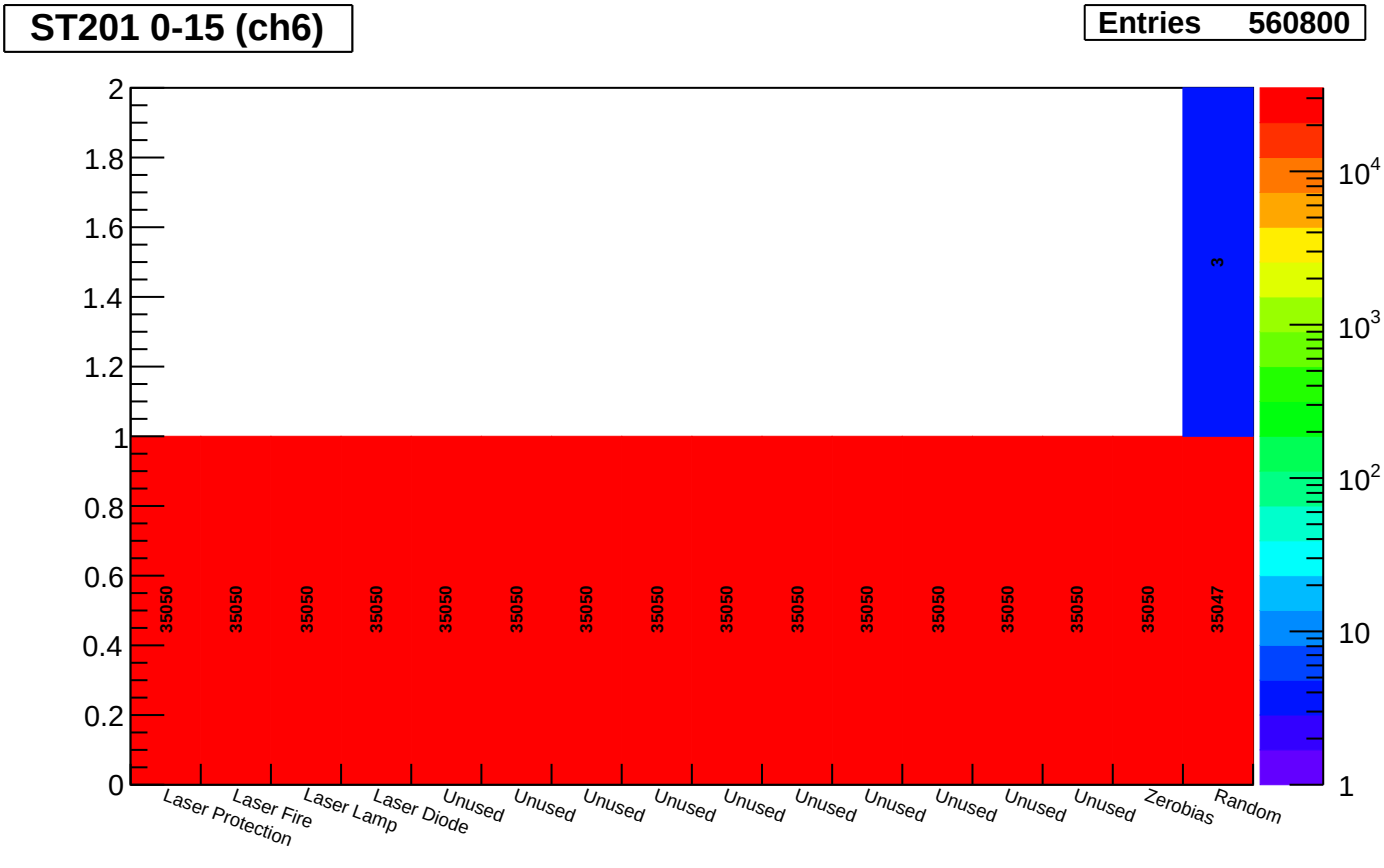

Entries 35050
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

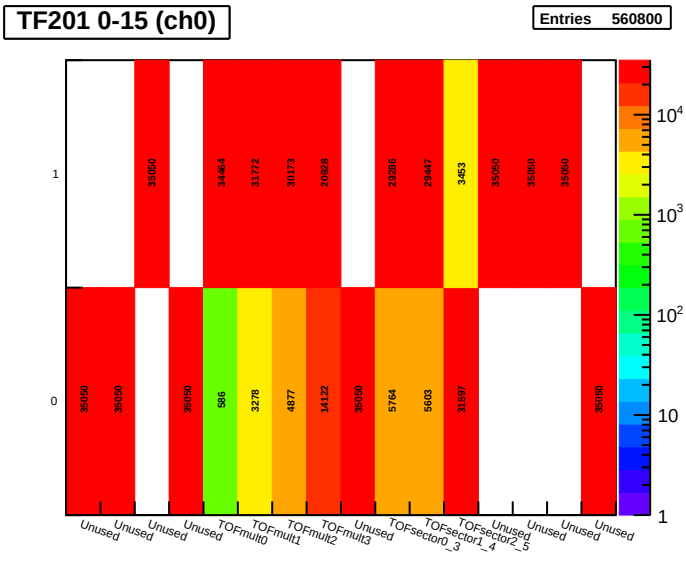

Entries 35050
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

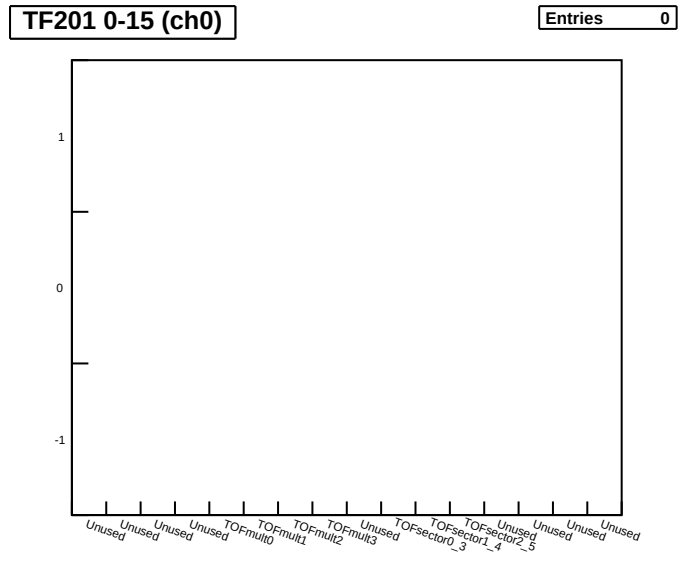

Entries 35050
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

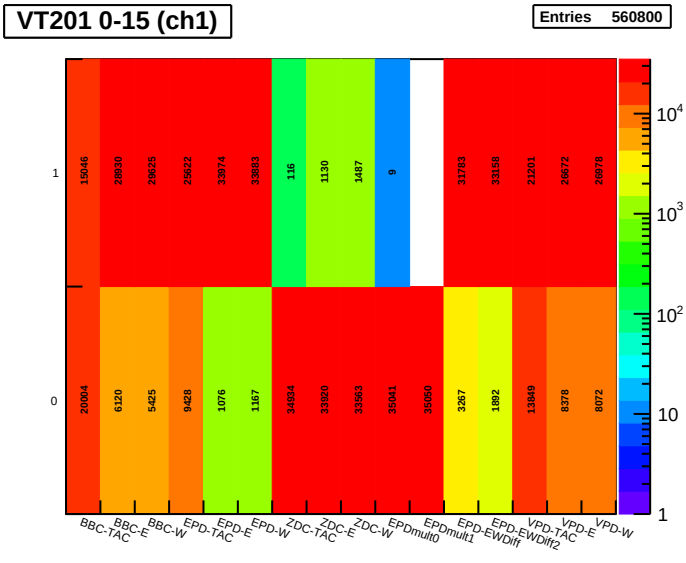

Entries 35050
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^4
10^3
10^2
10
1

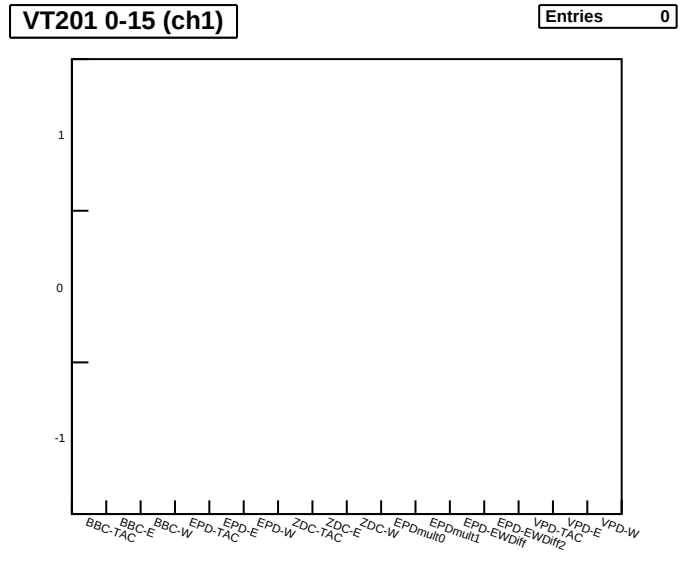

Laser Input Bits
Entries 35050
10^4
10^3
10^2
No L,No D
L,No D
D, No L
L,D

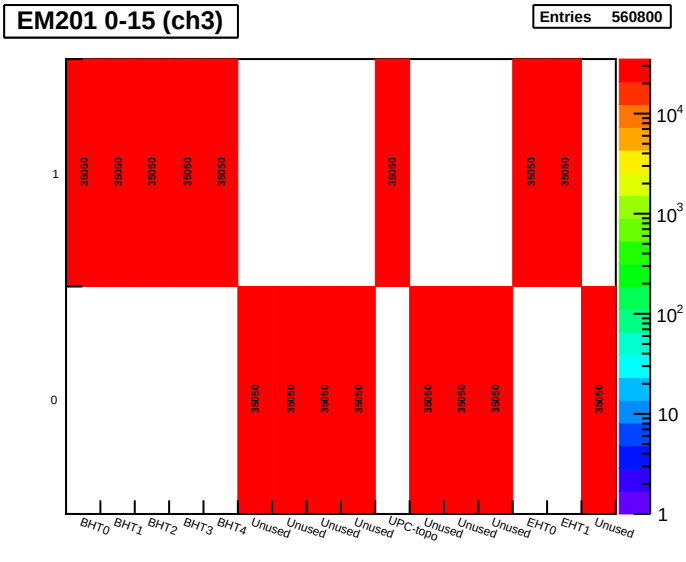

ST201 0-15 (ch6)
Entries 560800
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
35050
35047
3
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

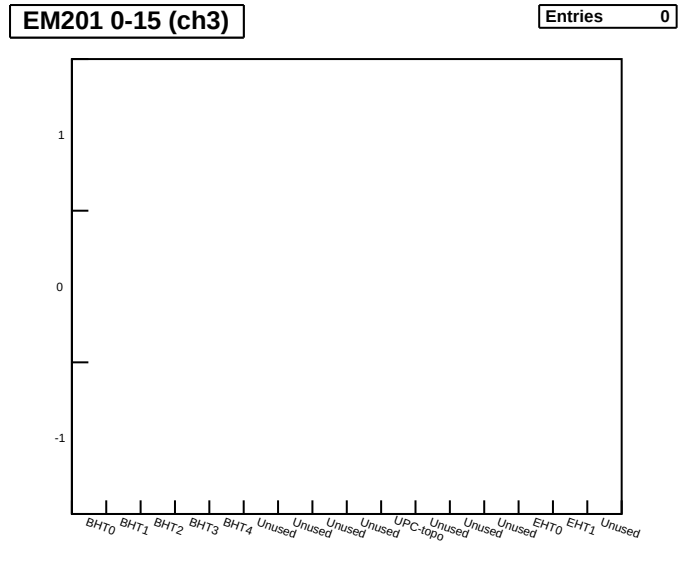

TF201 0-15 (ch0)
Entries 560800
1
0
35050 35050 35050 586 3278 4877 14122 35050 5764 5603 31597 35050
35050 34464 31772 30173 20928 29286 29447 3453 35050 35050 35050
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
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 560800
1
0
15046 28930 29625 25622 33974 33883 116 1130 1487 9 31783 33158 21201 26672 28978
20004 6120 5425 9428 1076 1167 34834 33920 33563 35041 35050 3267 1892 13849 8378 8072
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 560800
1
0
35050 35050 35050 35050 35050 35050 35050 35050 35050
35050 35050 35050 35050 35050 35050 35050 35050
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