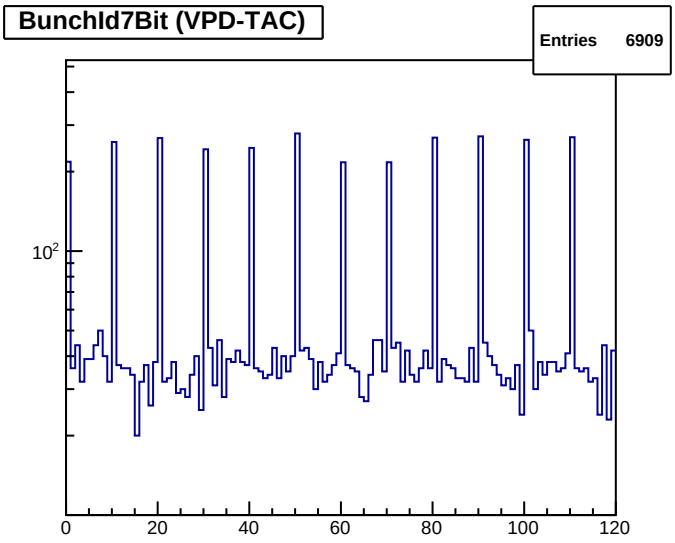
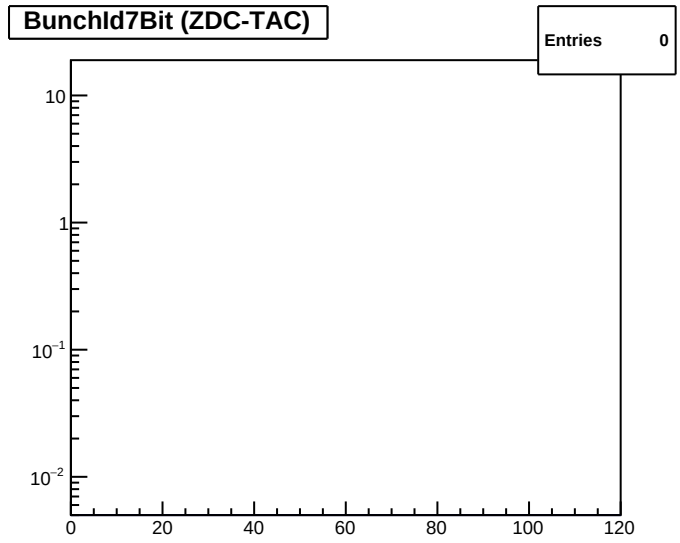
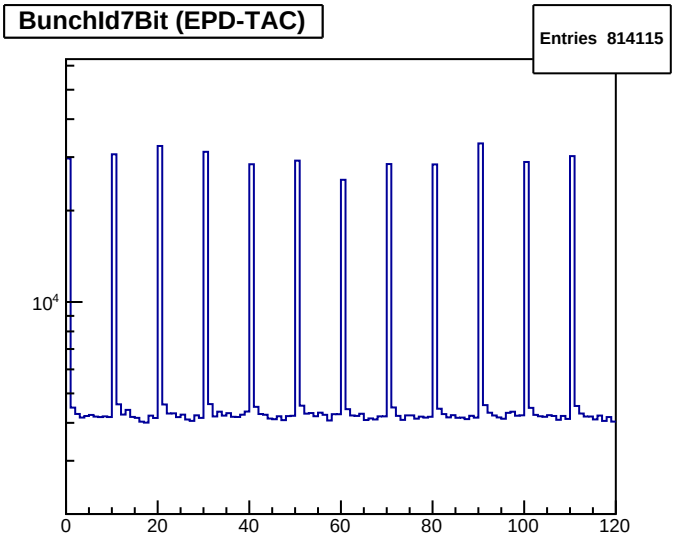
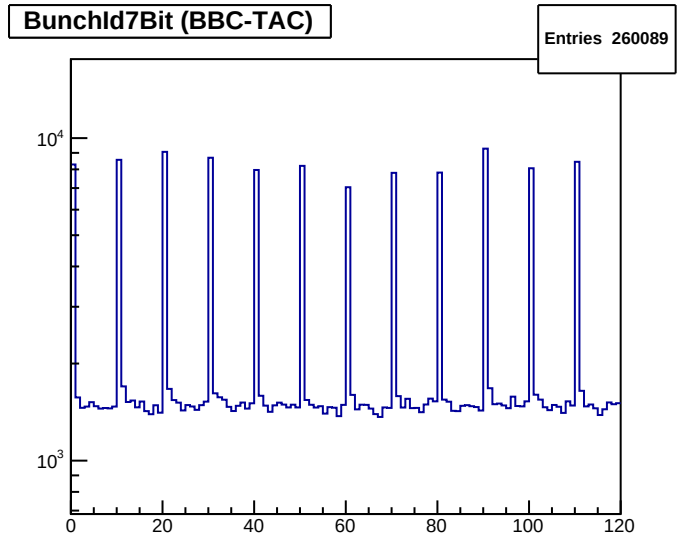
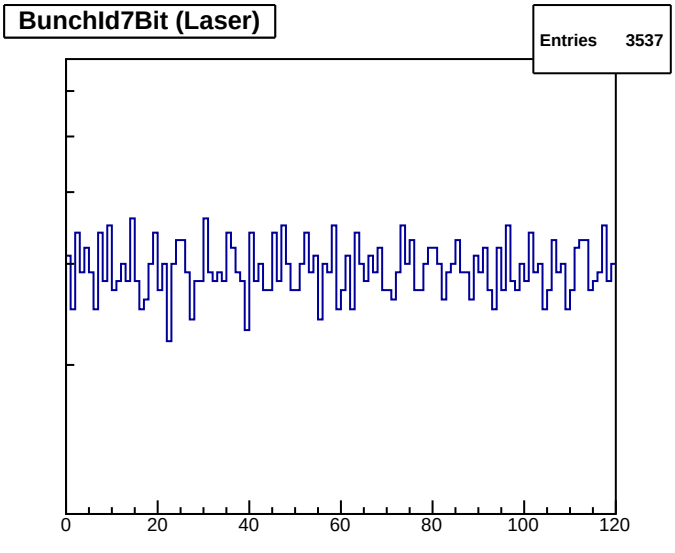
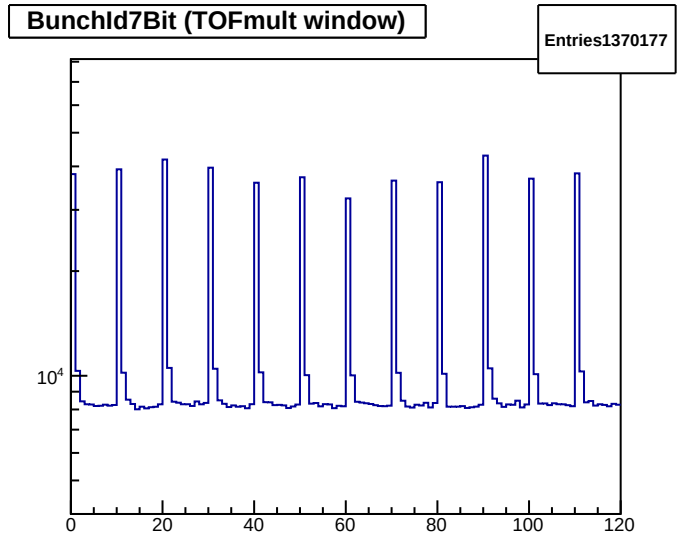

BunchId7Bit (VPD-TAC)
Entries 6909
10^2
0 20 40 60 80 100 120

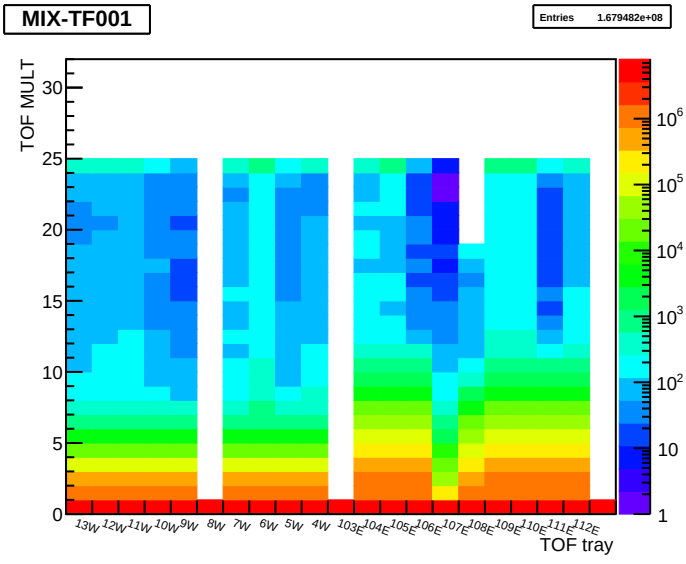

BunchId7Bit (ZDC-TAC)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

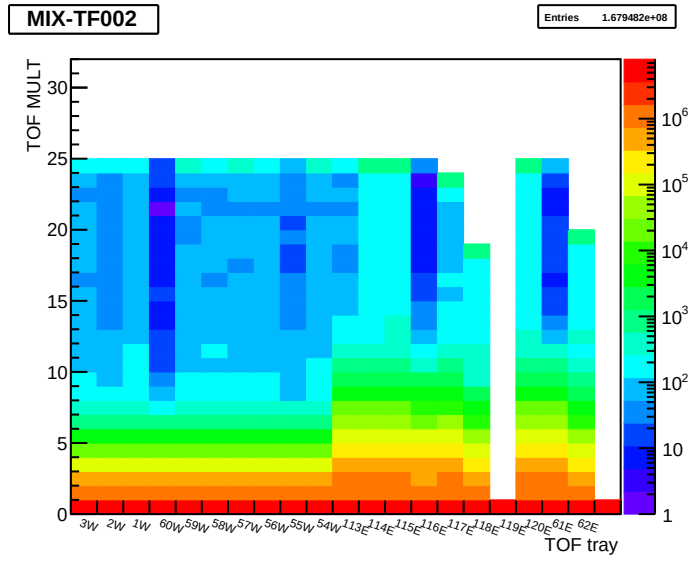

BunchId7Bit (EPD-TAC)
Entries 814115
10^4
0 20 40 60 80 100 120

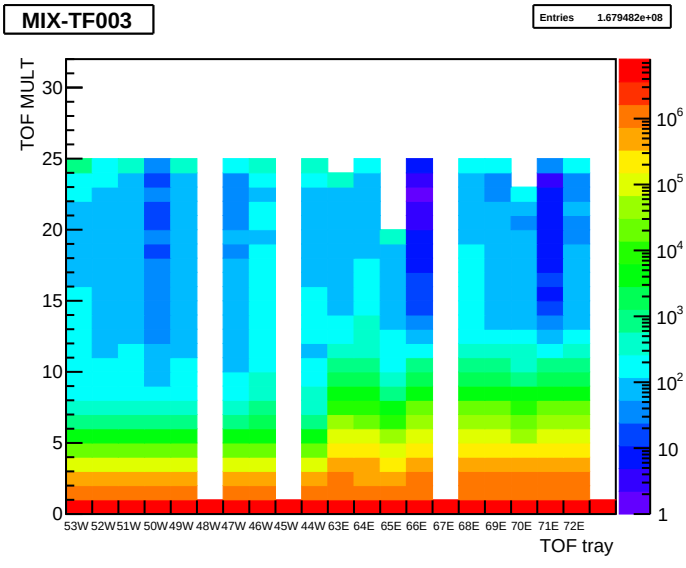

BunchId7Bit (BBC-TAC)
Entries 260089
10^4
10^3
0 20 40 60 80 100 120

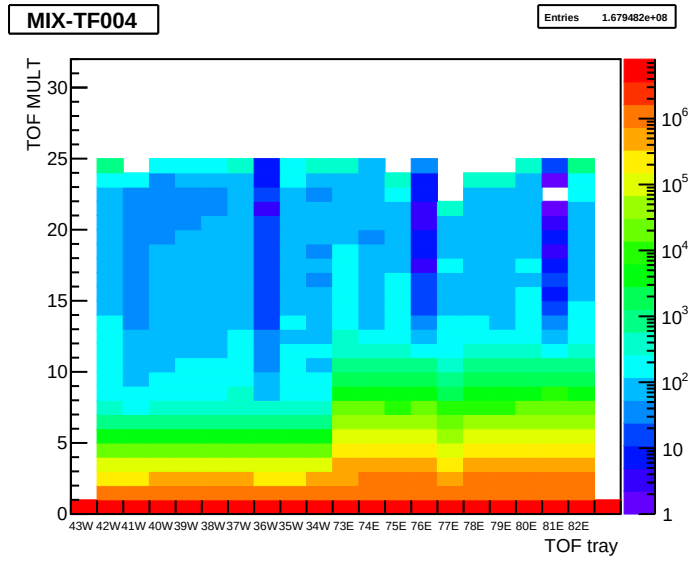

BunchId7Bit (Laser)
Entries 3537
0 20 40 60 80 100 120

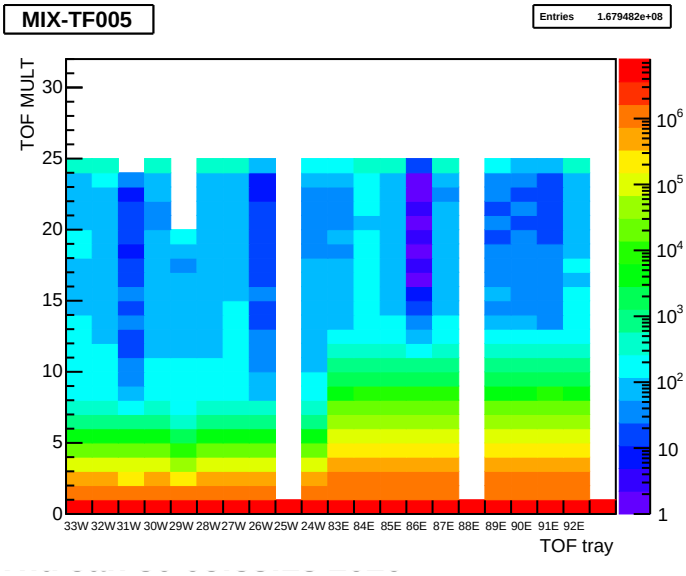

BunchId7Bit (TOFmult window)
Entries1370177
10^4
0 20 40 60 80 100 120

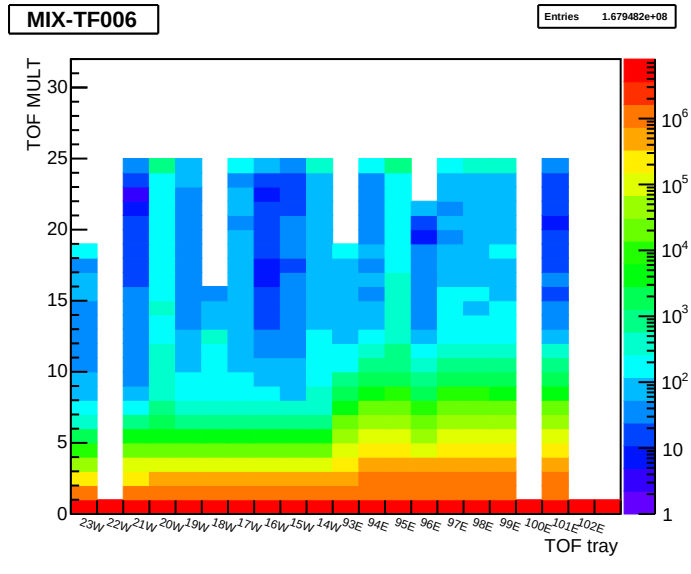

MIX-TF001
Entries 1.679482e+08
TOF MULT
TOF tray

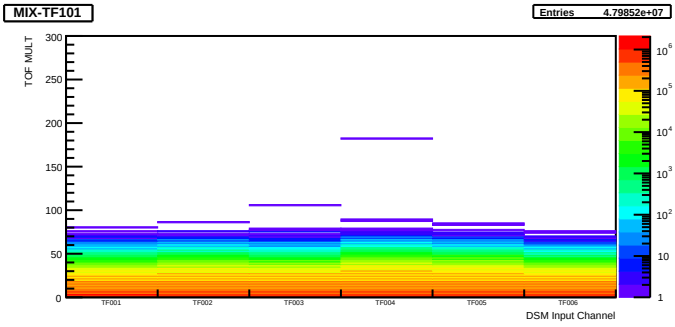

MIX-TF002
Entries 1.679482e+08
TOF MULT
TOF tray

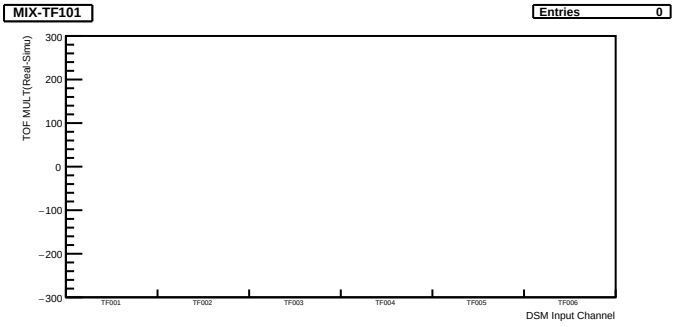

MIX-TF003
Entries 1.679482e+08
TOF MULT
TOF tray

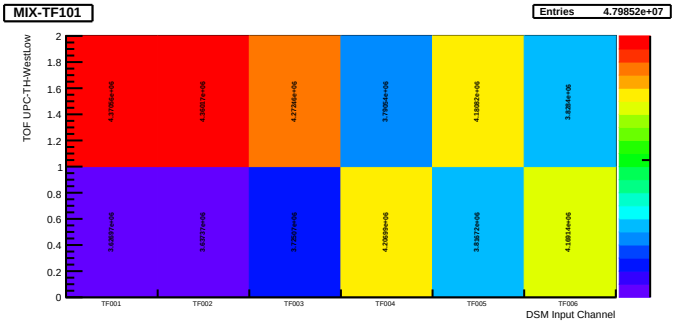

MIX-TF004
Entries 1.679482e+08
TOF MULT
TOF tray

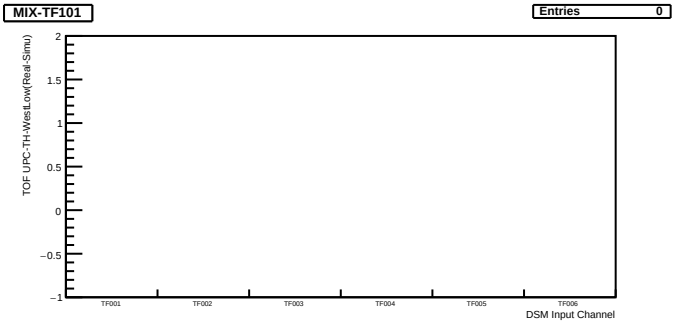

MIX-TF005
Entries 1.679482e+08
TOF MULT
TOF tray

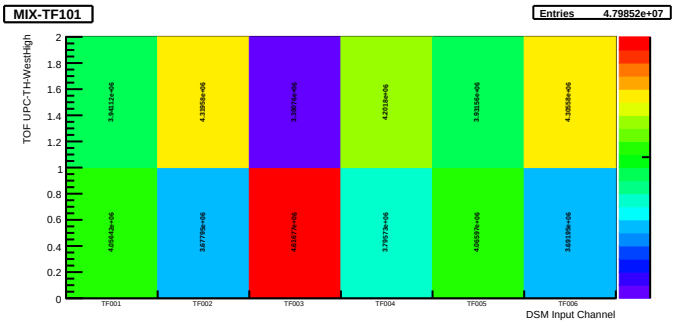

MIX-TF006
Entries 1.679482e+08
TOF MULT
TOF tray

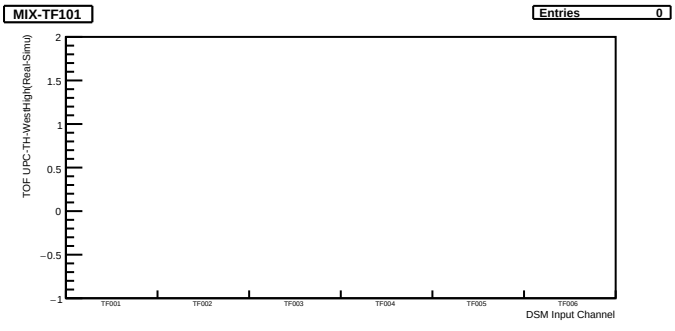

MIX-TF101
Entries 4.79852e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

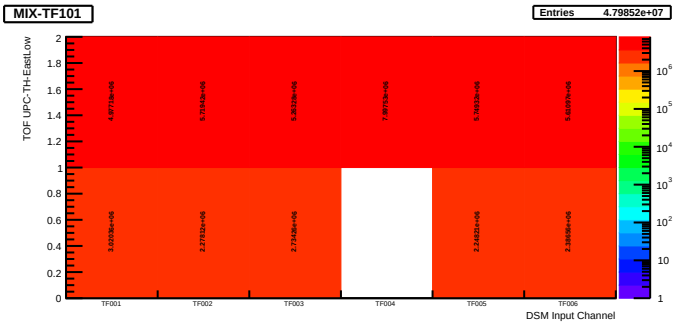

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

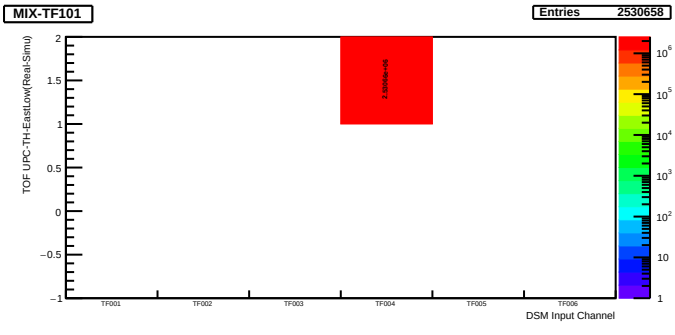

MIX-TF101
Entries 4.79852e+07
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

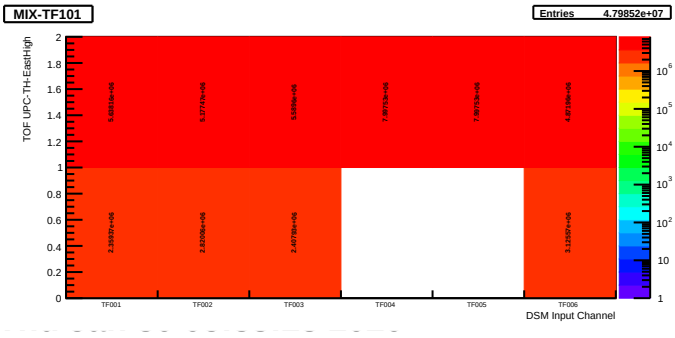

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

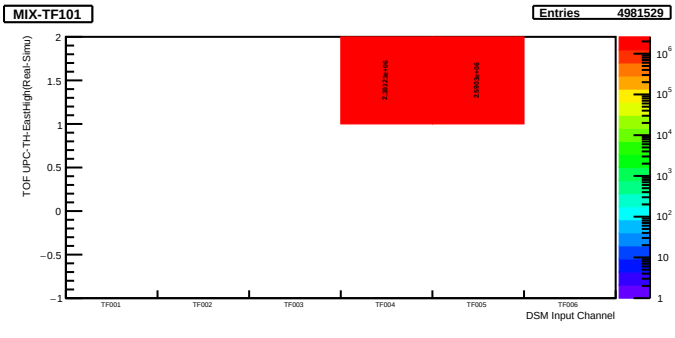

MIX-TF101
Entries 4.79852e+07
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

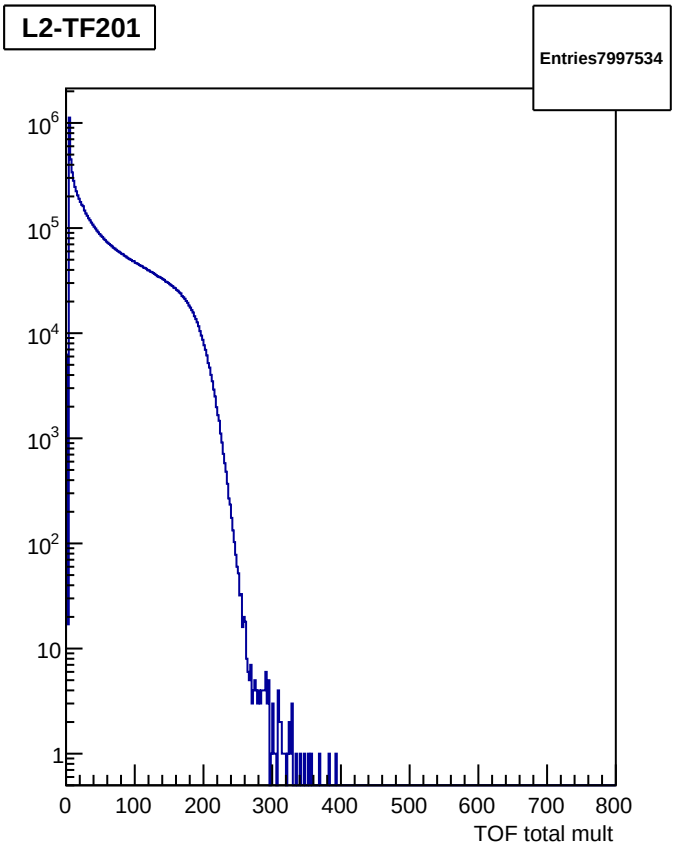

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

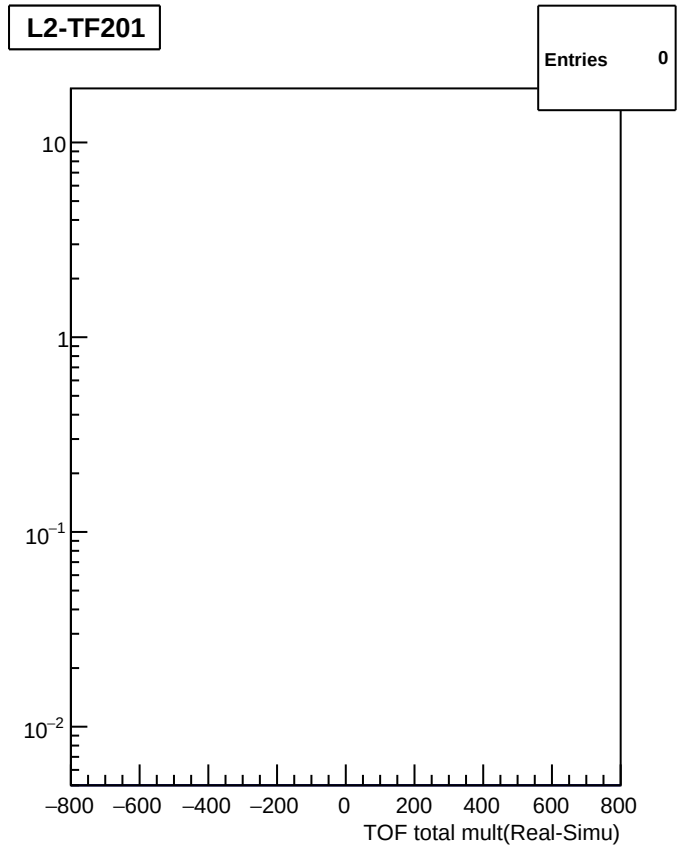

MIX-TF101
Entries 4.79852e+07
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

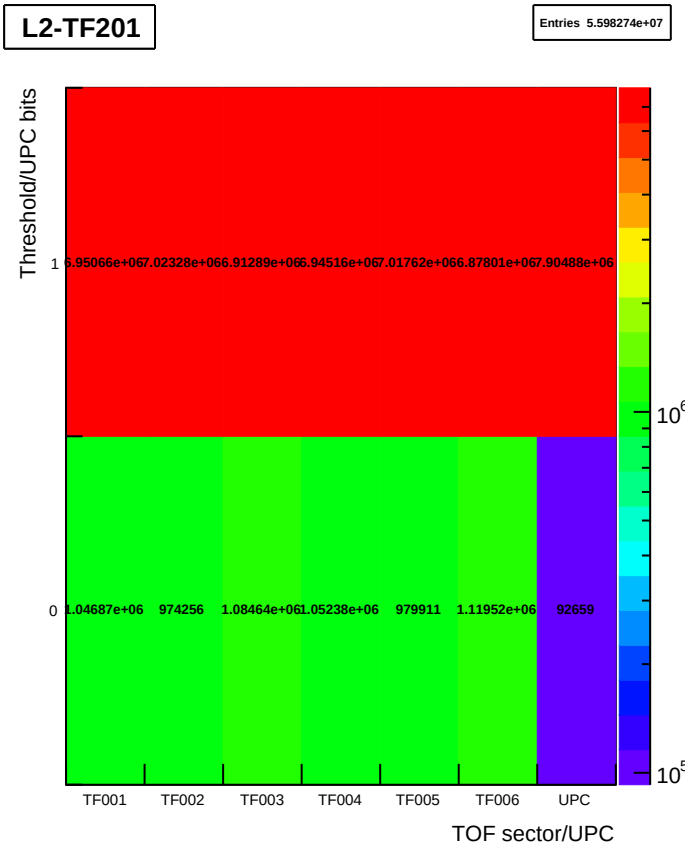

MIX-TF101
Entries 2530658
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

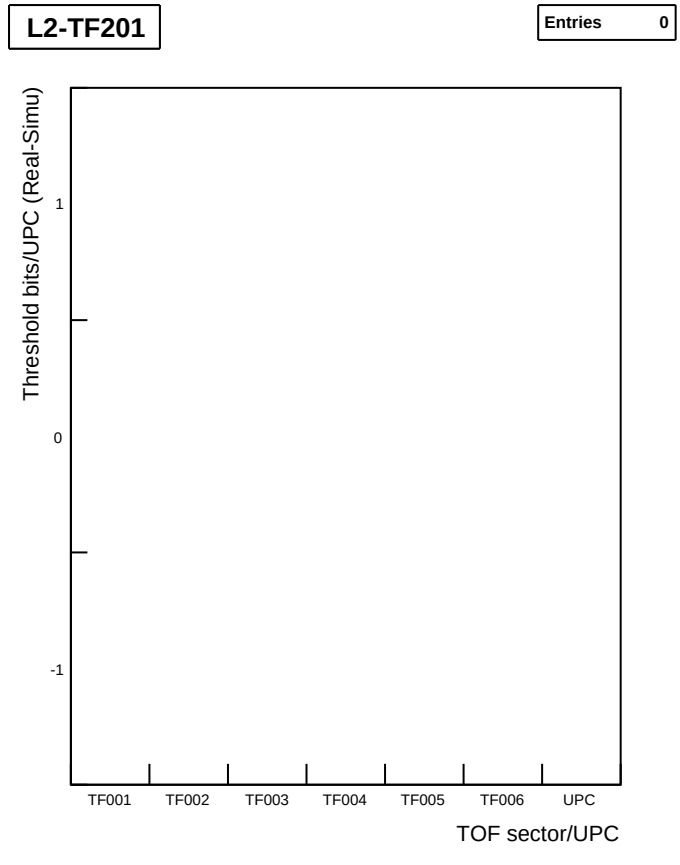

MIX-TF101
Entries 4.79852e+07
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

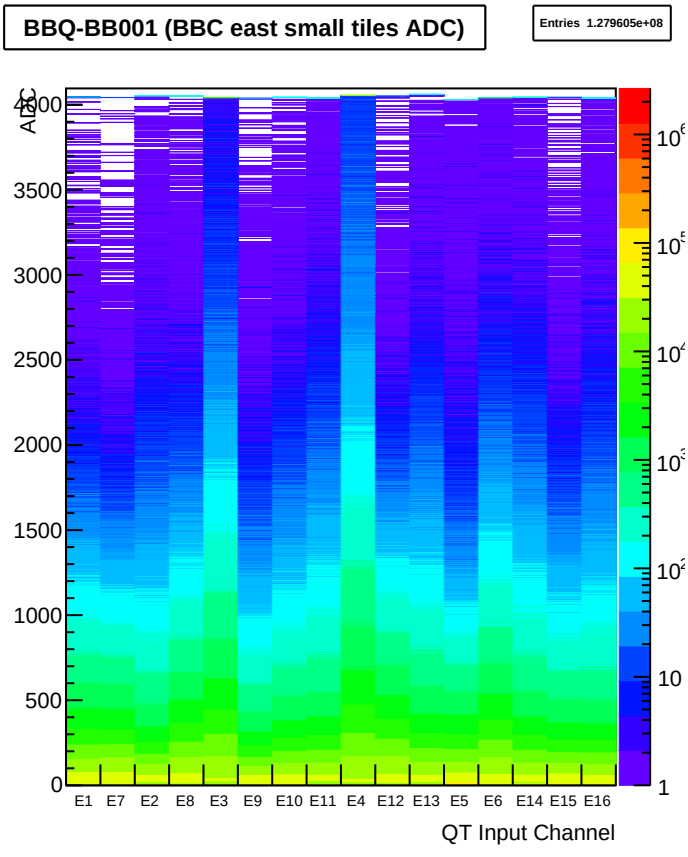

MIX-TF101
Entries 4981529
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

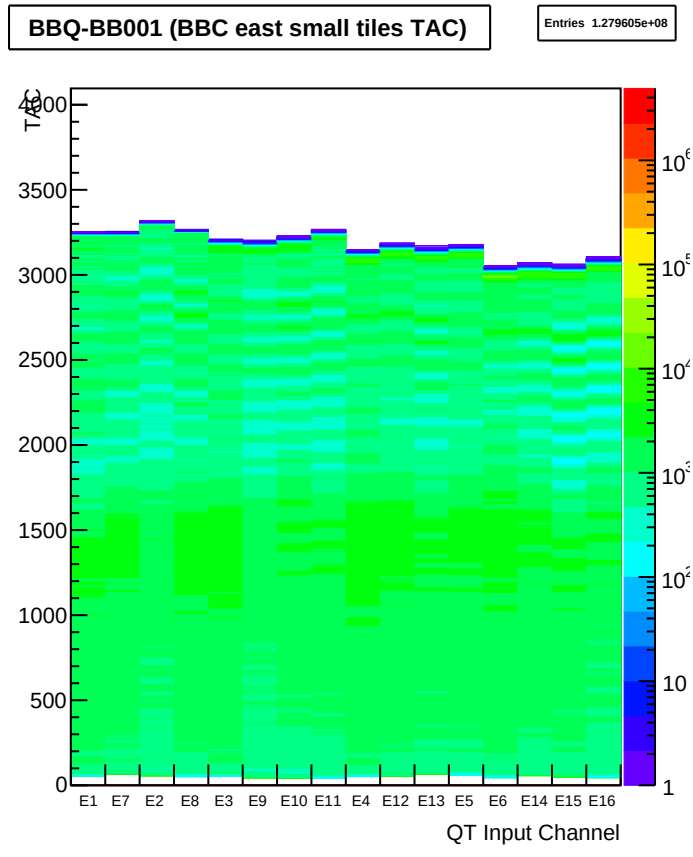

L2-TF201
Entries7997534
TOF total mult

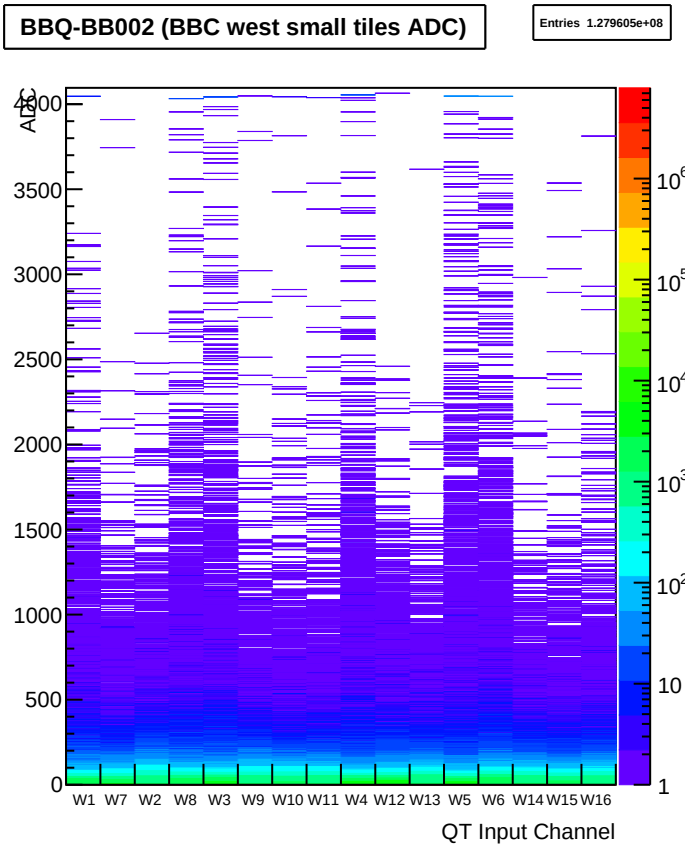

L2-TF201
Entries 0
TOF total mult(Real-Simu)

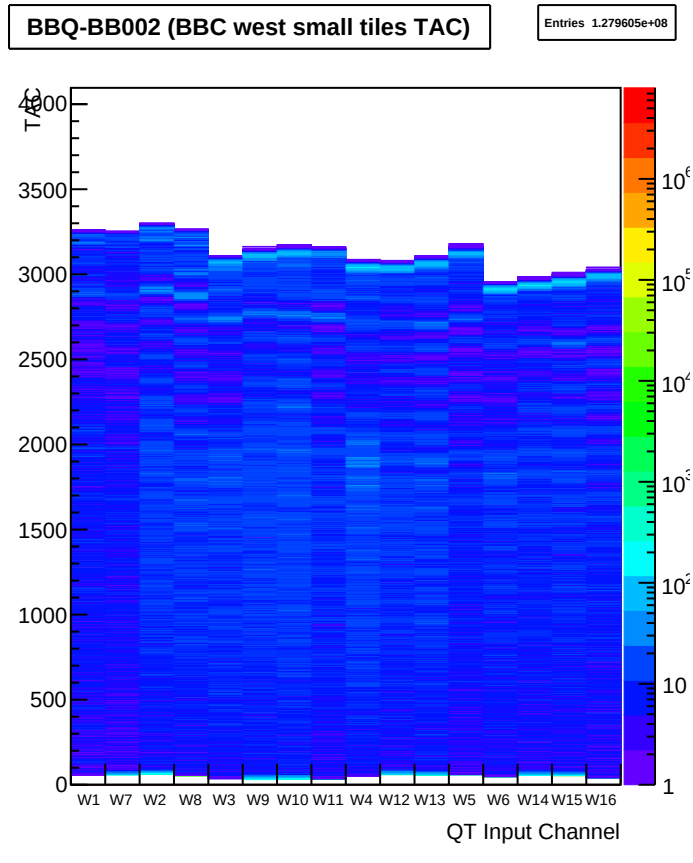

L2-TF201
Entries 5.598274e+07
Threshold/UPC bits
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

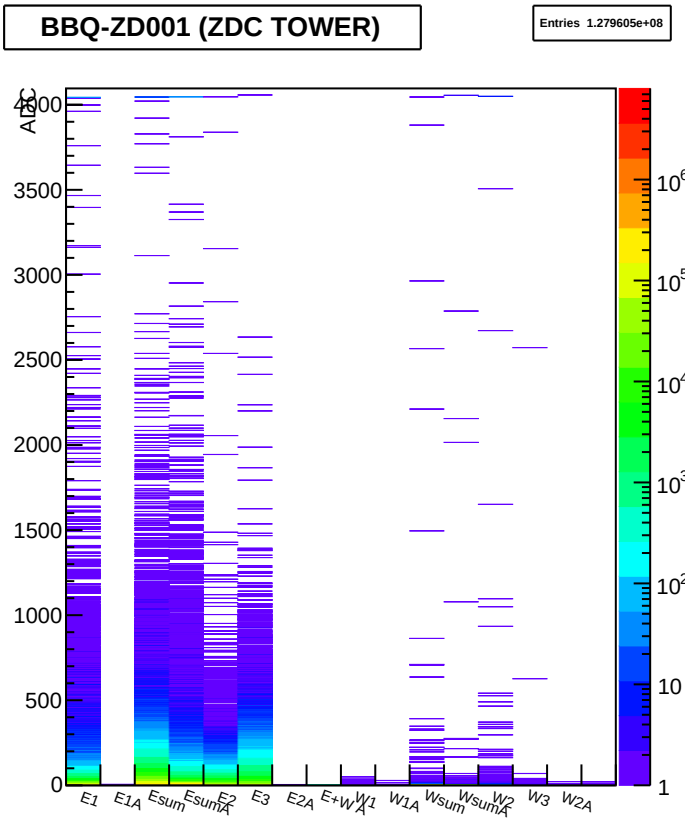

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

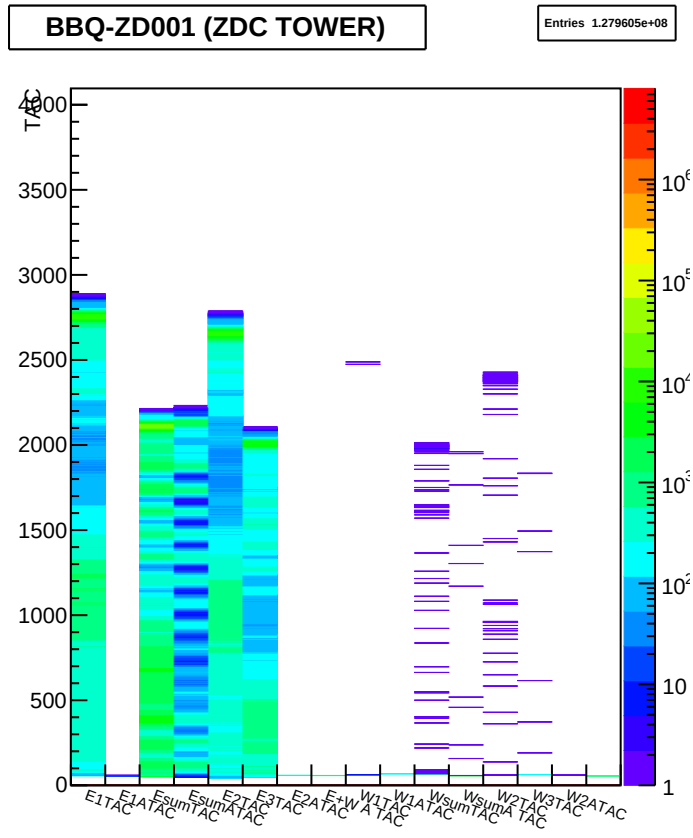

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.279605e+08
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

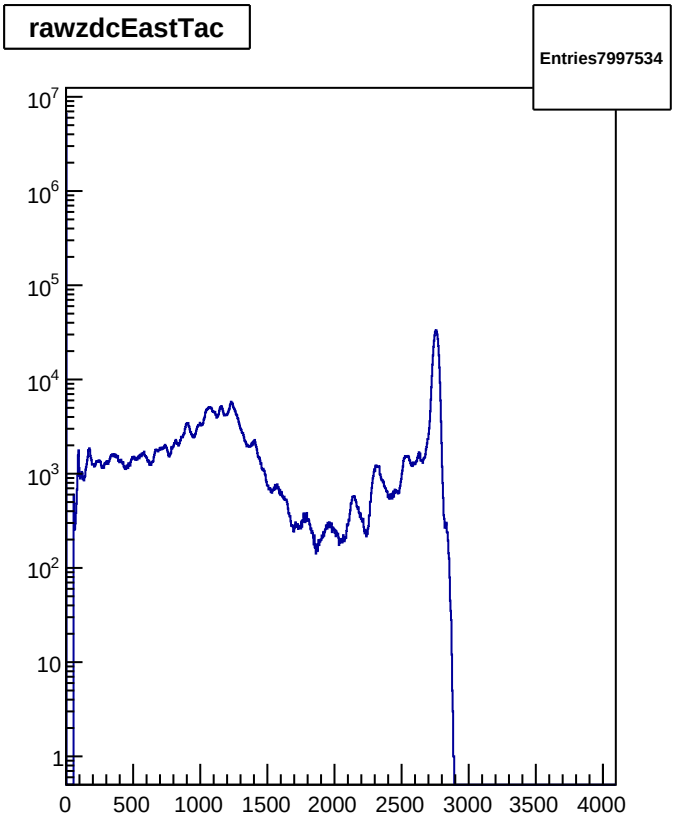

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.279605e+08
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

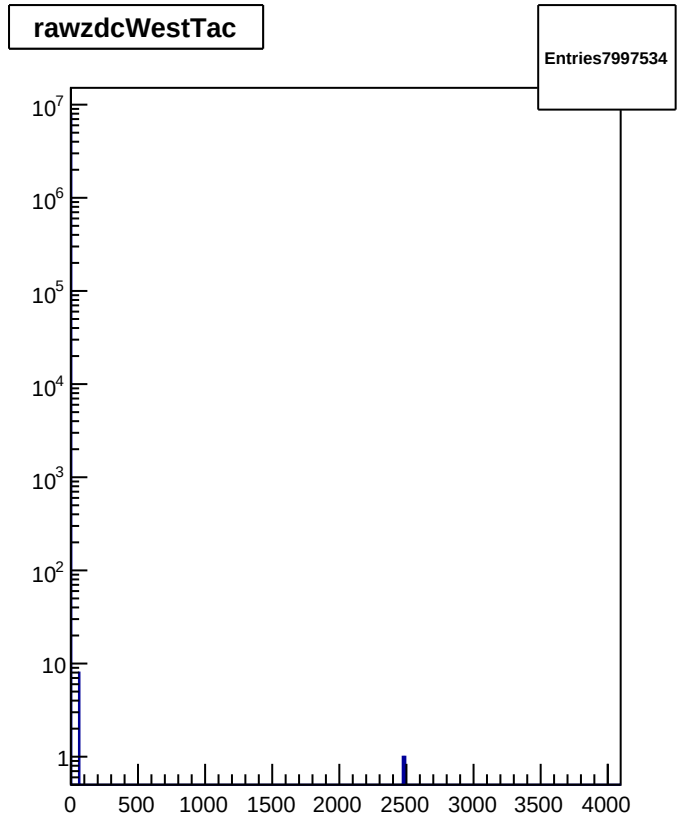

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.279605e+08
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

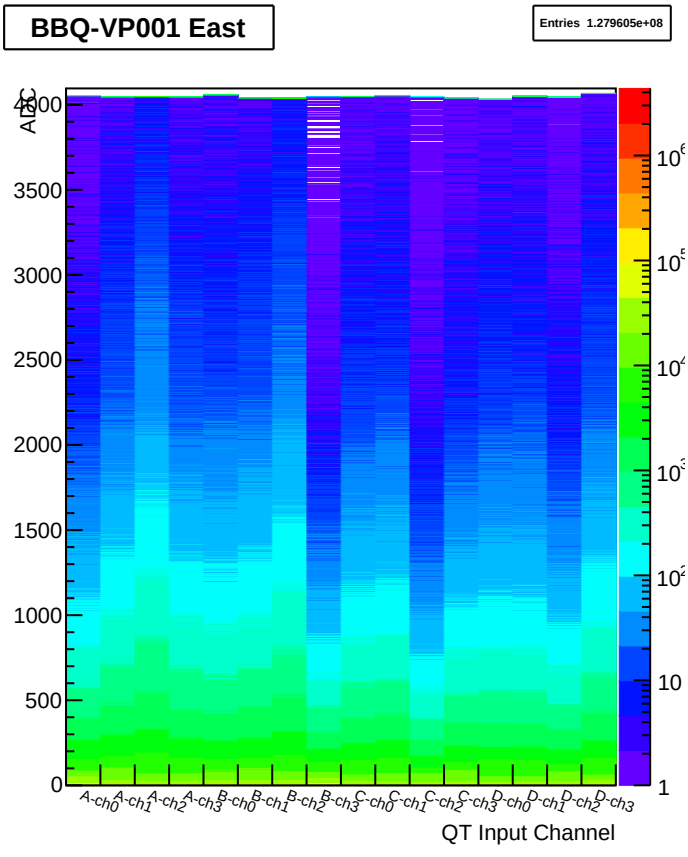

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.279605e+08
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

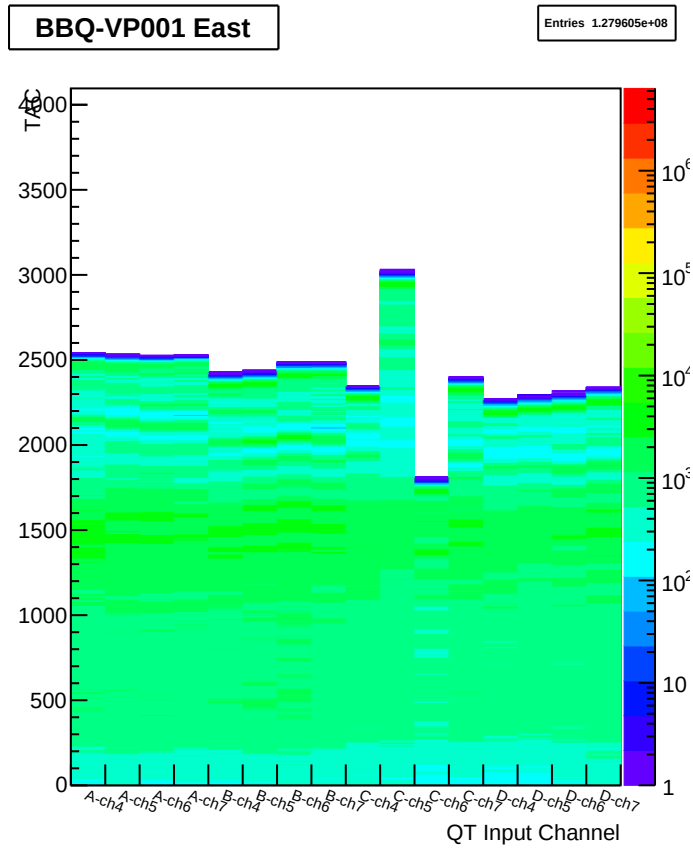

BBQ-ZD001 (ZDC TOWER)
Entries 1.279605e+08
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

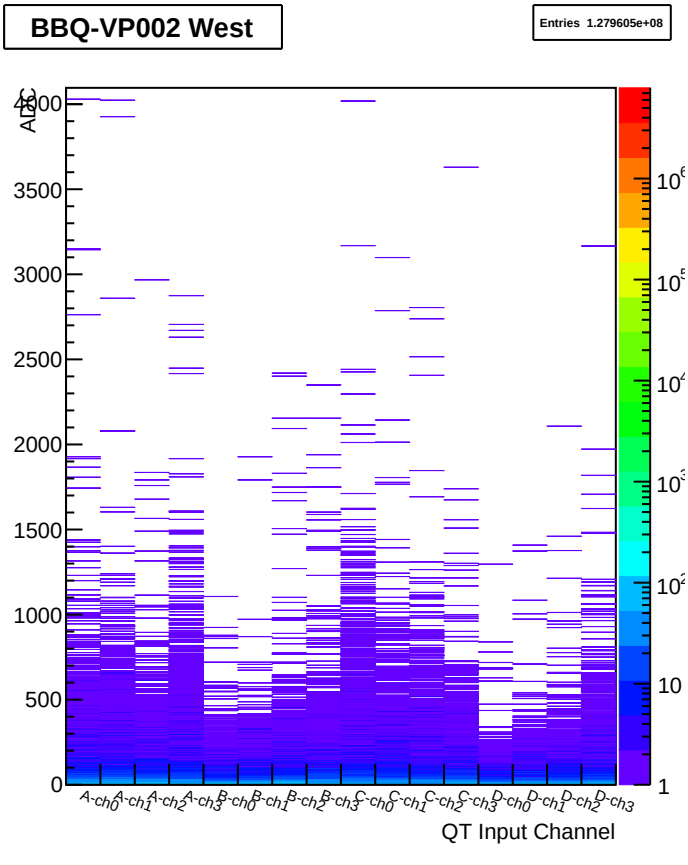

BBQ-ZD001 (ZDC TOWER)
Entries 1.279605e+08
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

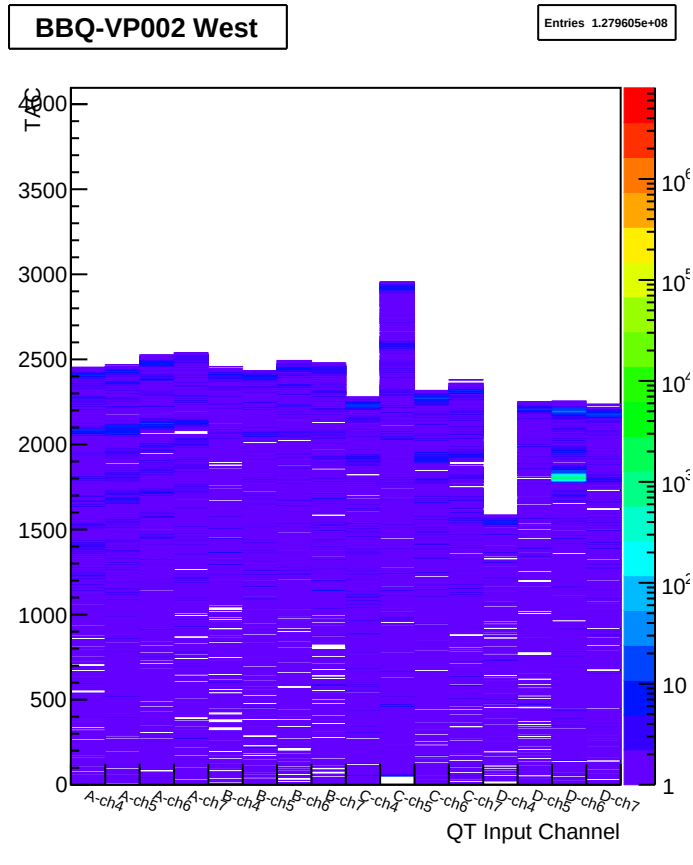

rawzdcEastTac
Entries7997534

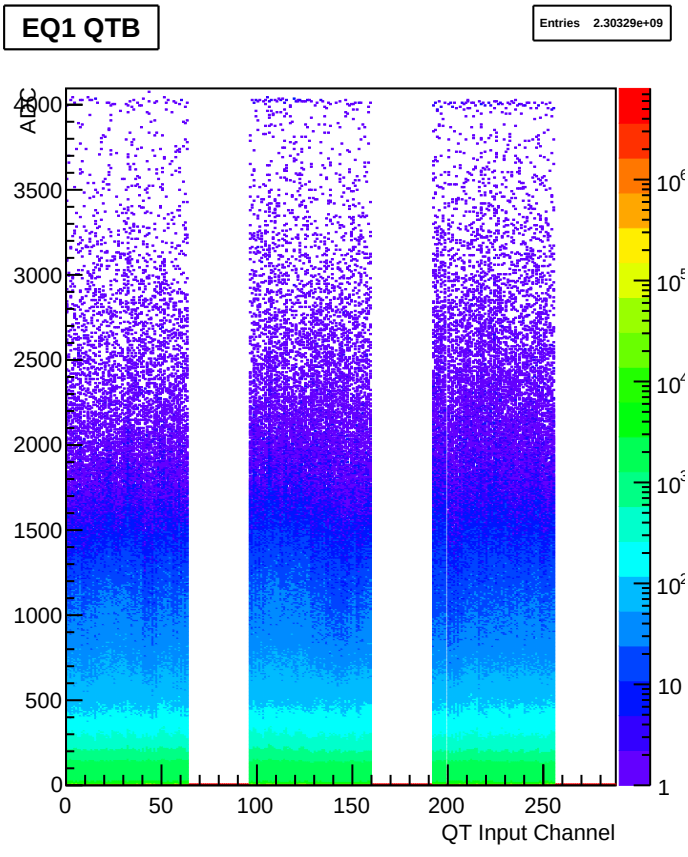

rawzdcWestTac
Entries7997534

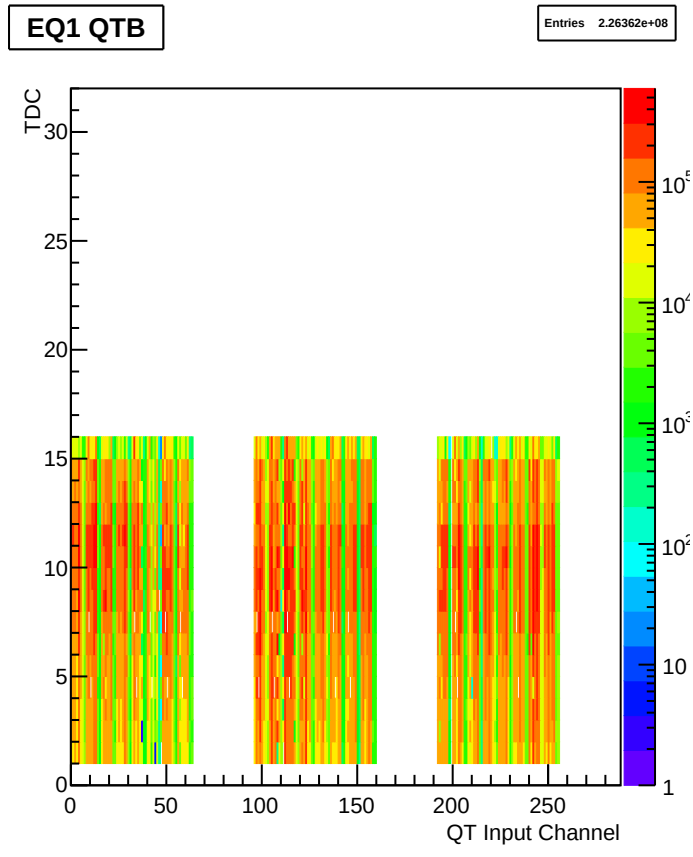

BBQ-VP001 East
Entries 1.279605e+08
ADC
QT Input Channel

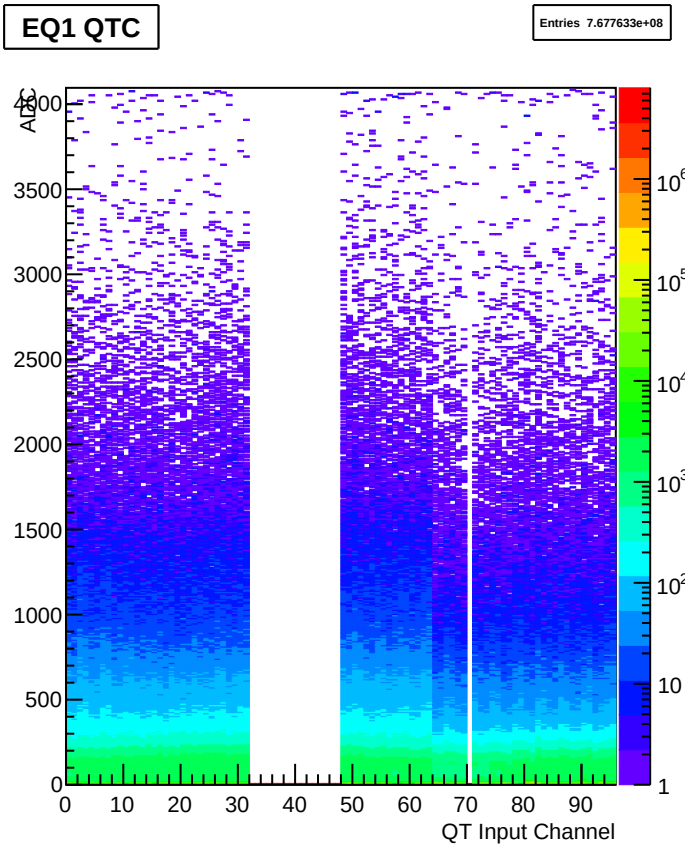

BBQ-VP001 East
Entries 1.279605e+08
TAC
QT Input Channel

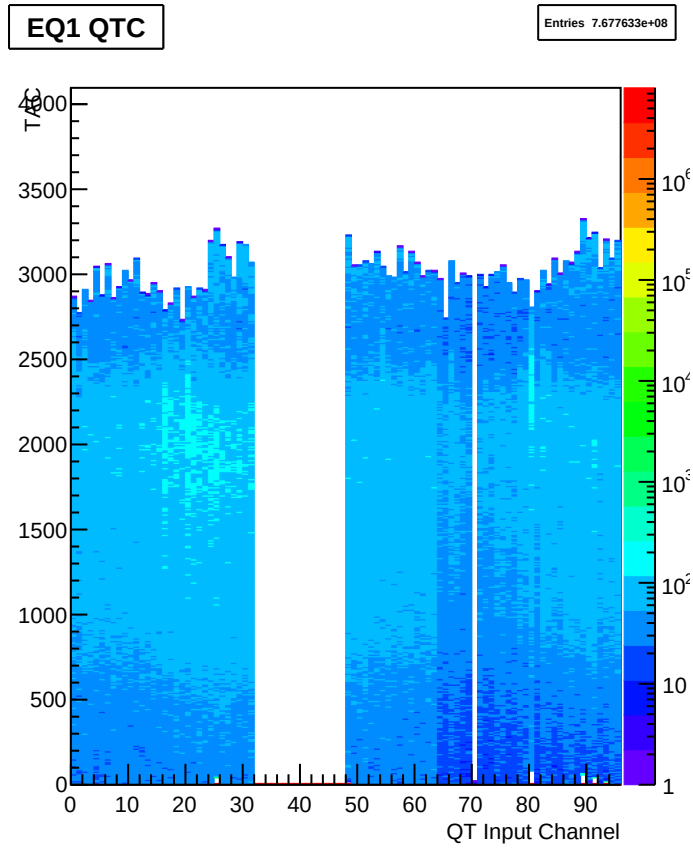

BBQ-VP002 West
Entries 1.279605e+08
ADC
QT Input Channel

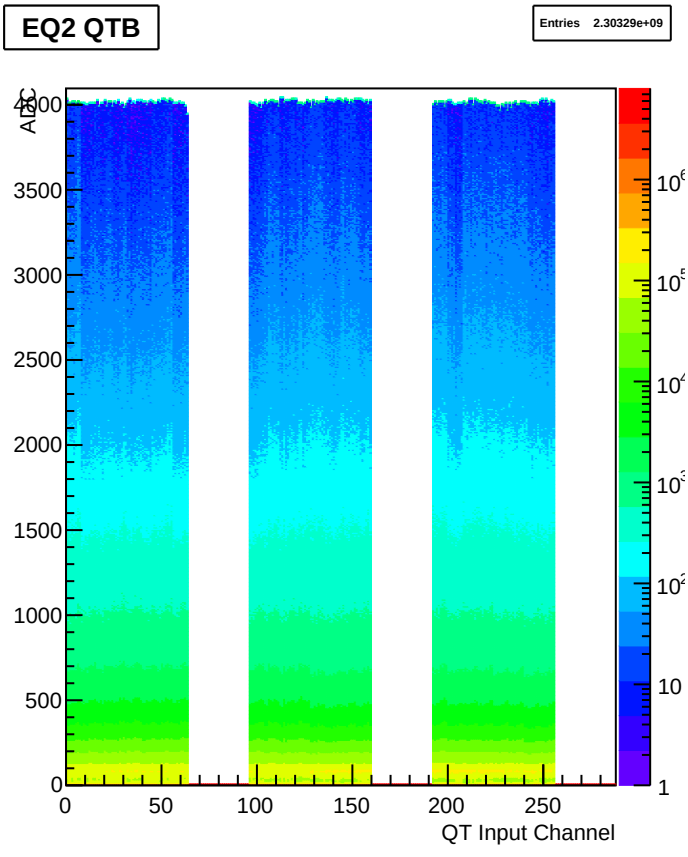

BBQ-VP002 West
Entries 1.279605e+08
TAC
QT Input Channel

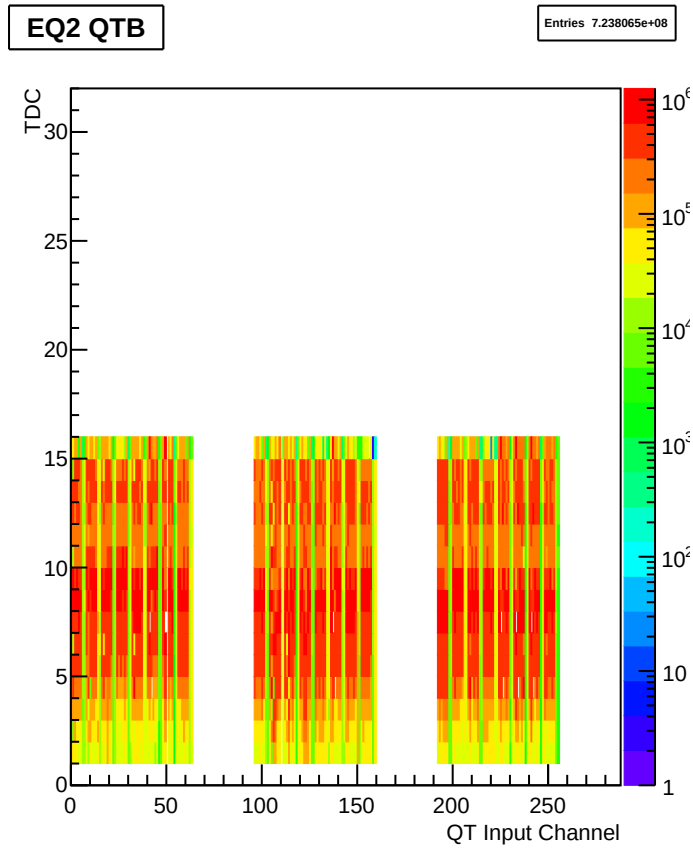

EQ1 QTB
Entries 2.30329e+09
ADC
QT Input Channel

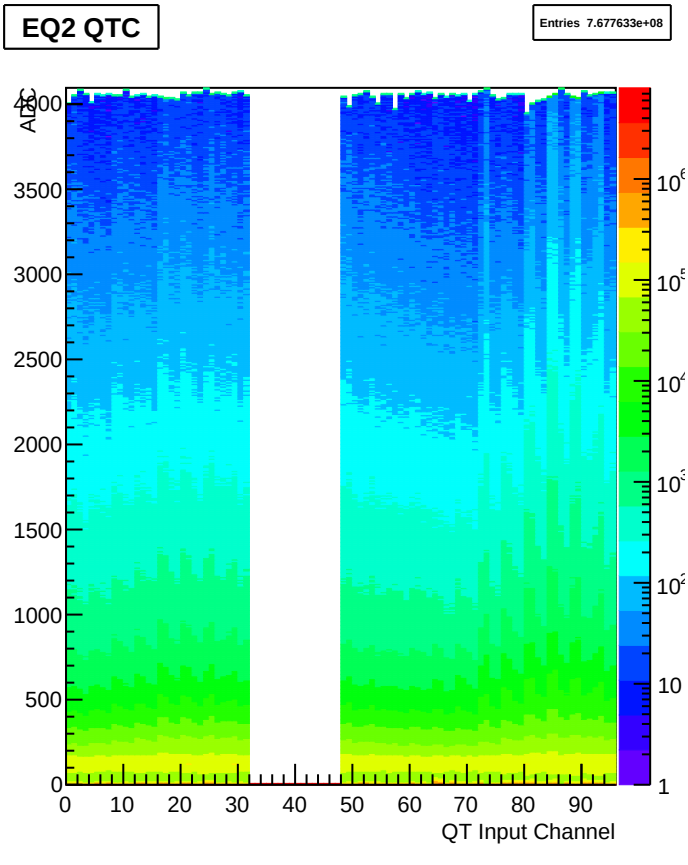

EQ1 QTB
Entries 2.26362e+08
TDC
QT Input Channel

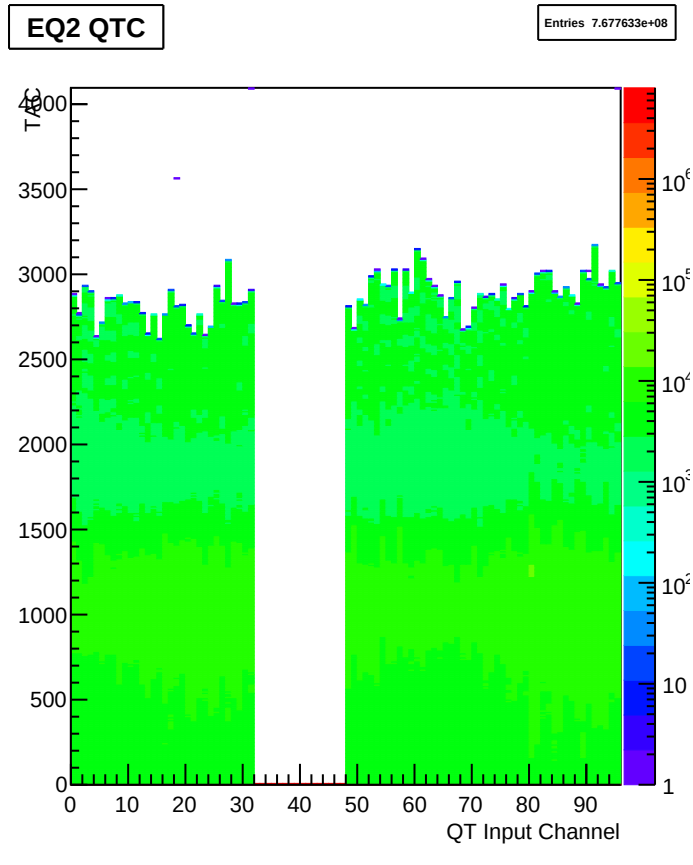

EQ1 QTC
Entries 7.677633e+08
ADC
QT Input Channel

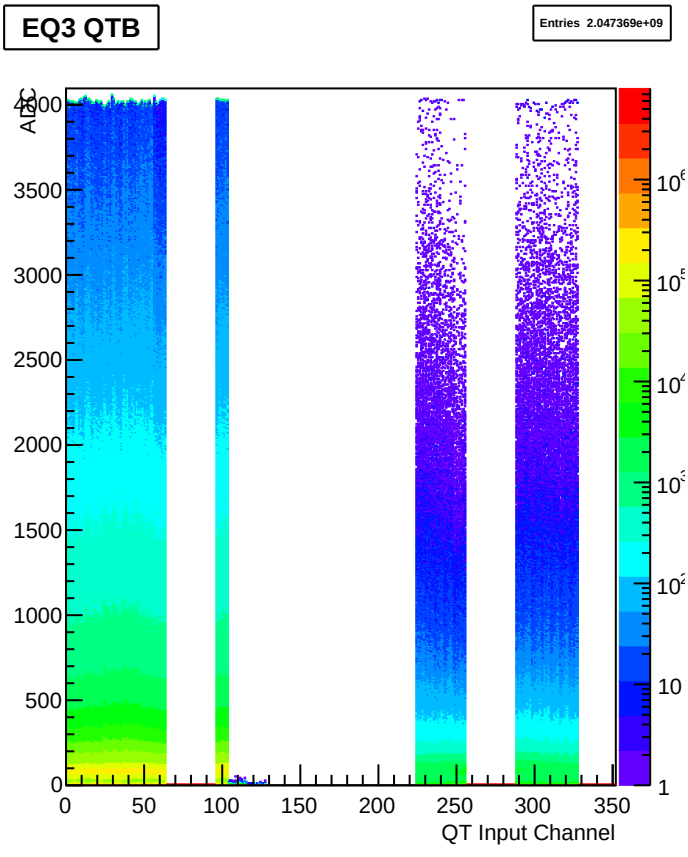

EQ1 QTC
Entries 7.677633e+08
TADC
QT Input Channel

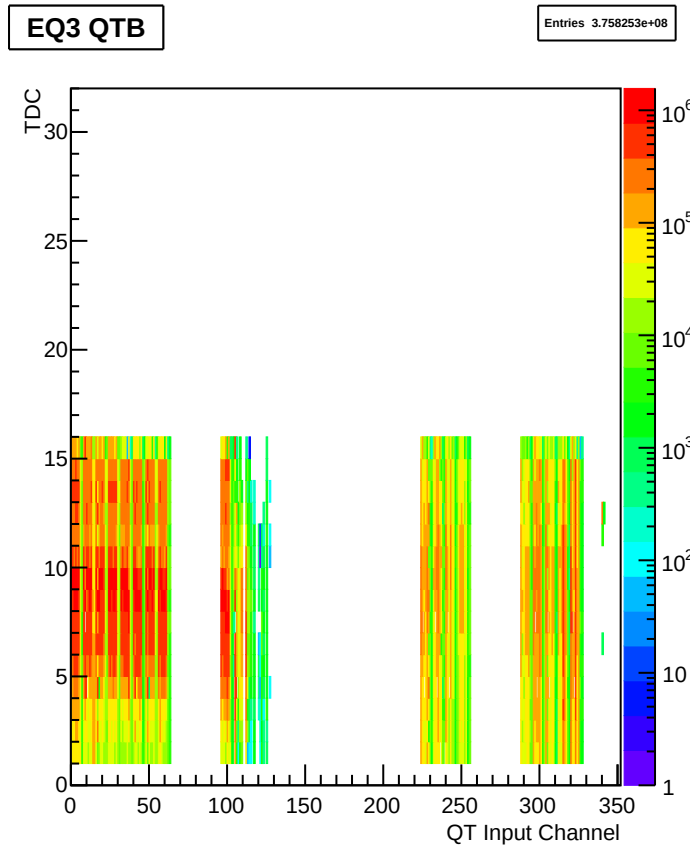

EQ2 QTB
Entries 2.30329e+09
ADC
QT Input Channel

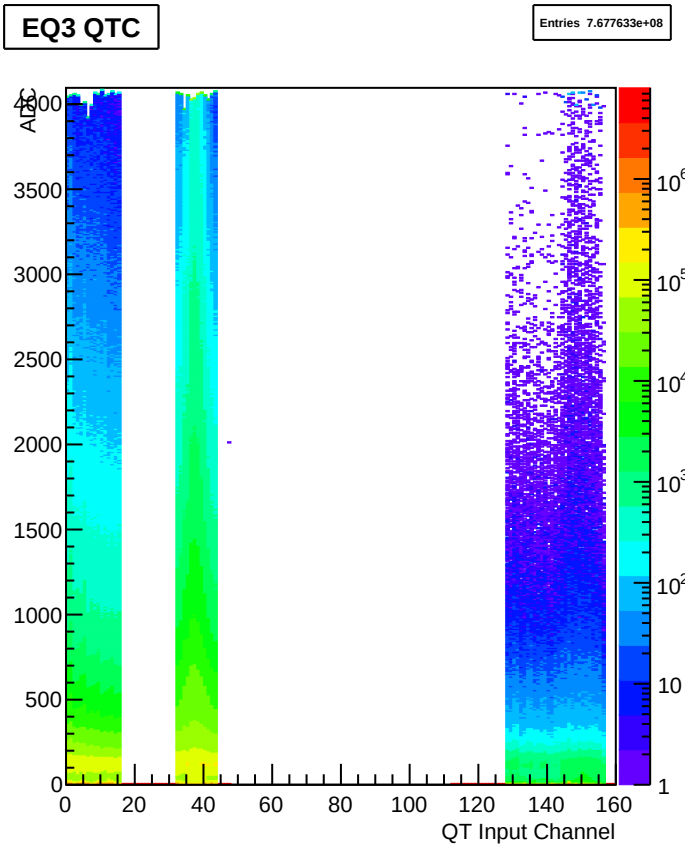

EQ2 QTB
Entries 7.238065e+08
TDC
QT Input Channel

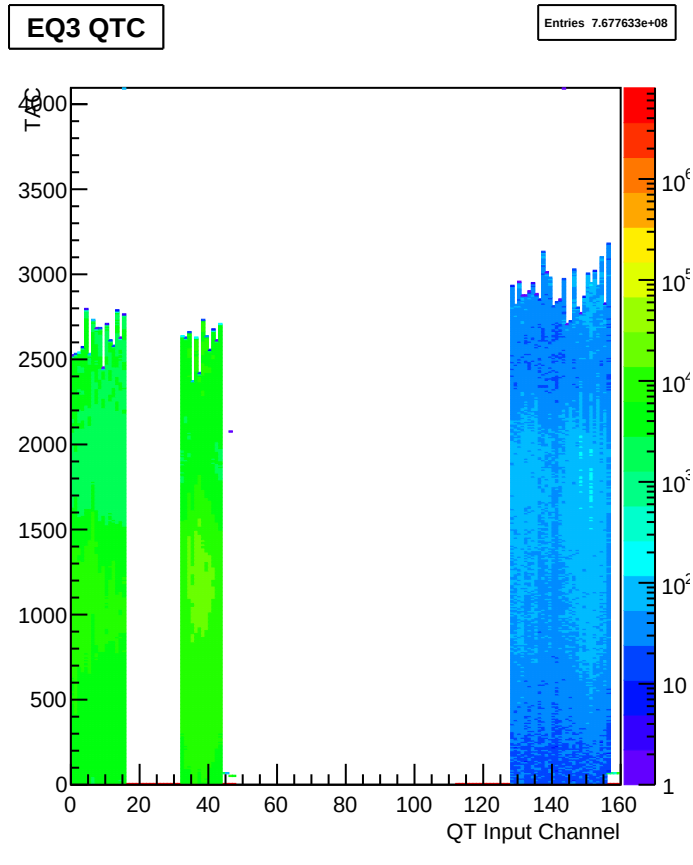

EQ2 QTC
Entries 7.677633e+08
ADC
QT Input Channel

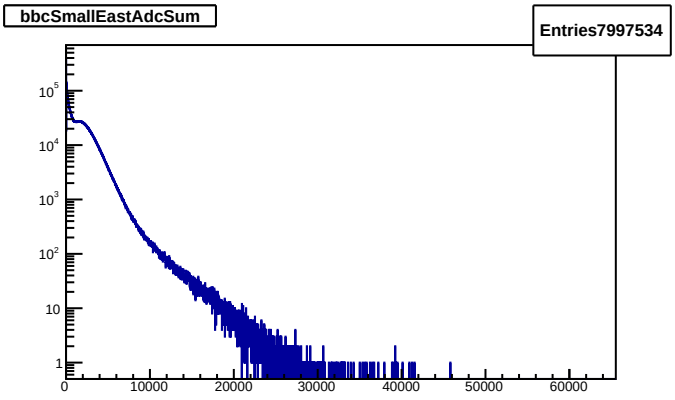

EQ2 QTC
Entries 7.677633e+08
TADC
QT Input Channel

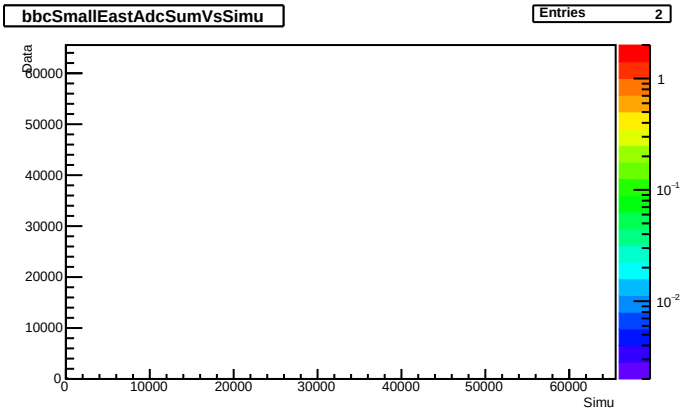

EQ3 QTB
Entries 2.047369e+09
ADC
QT Input Channel

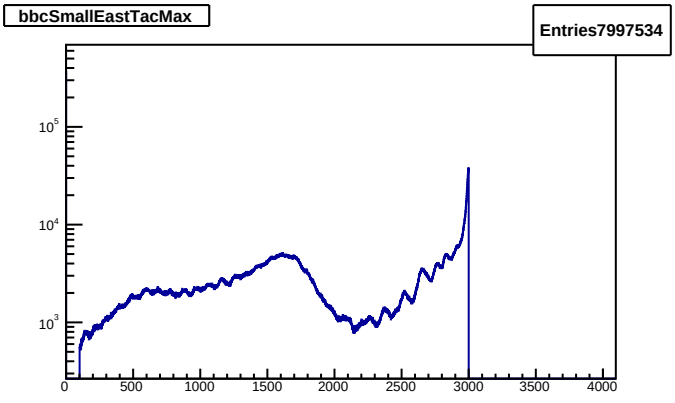

EQ3 QTB
Entries 3.758253e+08
TDC
QT Input Channel

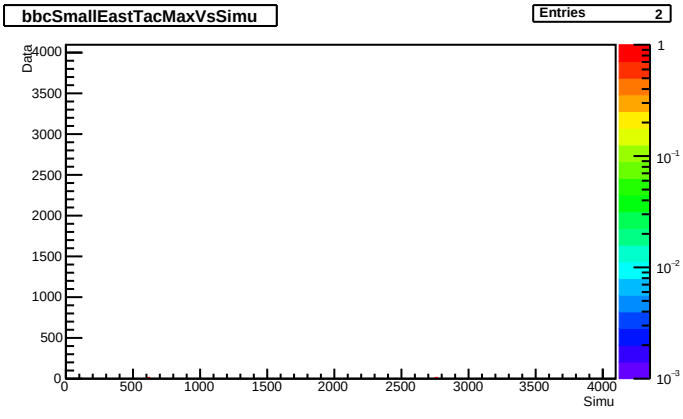

EQ3 QTC
Entries 7.677633e+08
ADC
QT Input Channel

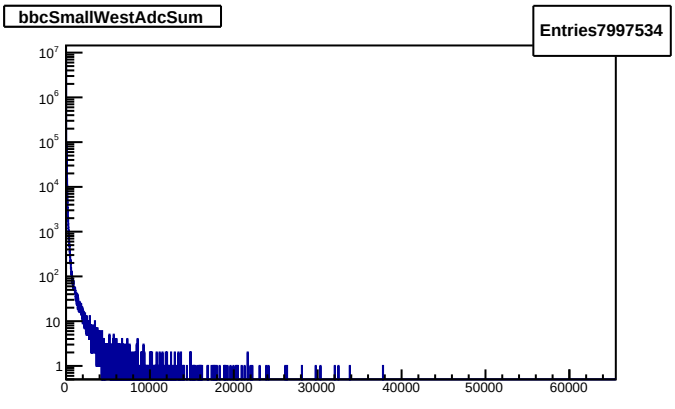

EQ3 QTC
Entries 7.677633e+08
TADC
QT Input Channel

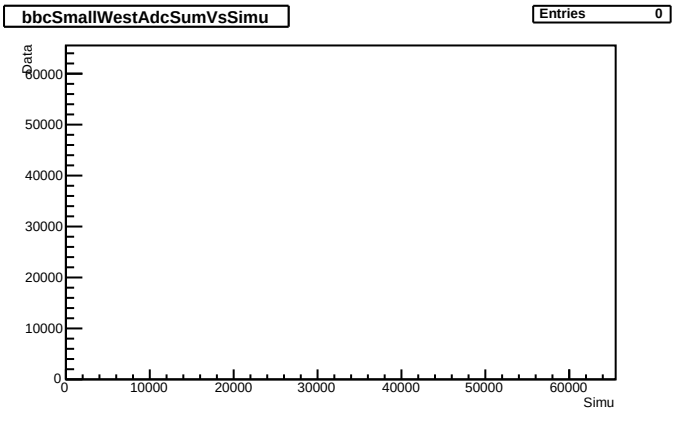

bbcSmallEastAdcSum
Entries7997534


bbcSmallEastAdcSumVsSimu
Entries 2
Data
Simu


bbcSmallEastTacMax
Entries7997534


bbcSmallEastTacMaxVsSimu
Entries 2
Data
Simu


bbcSmallWestAdcSum
Entries7997534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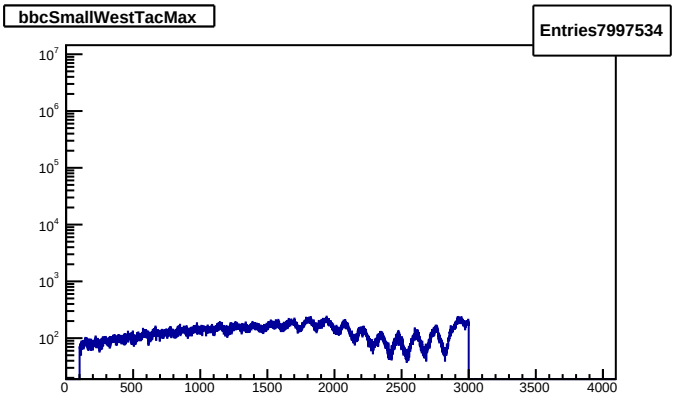
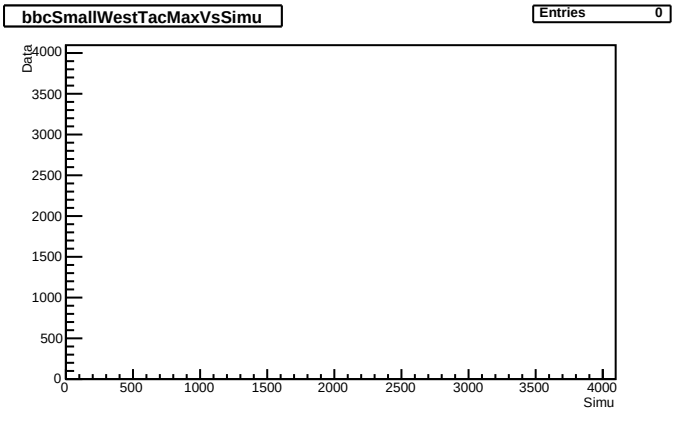
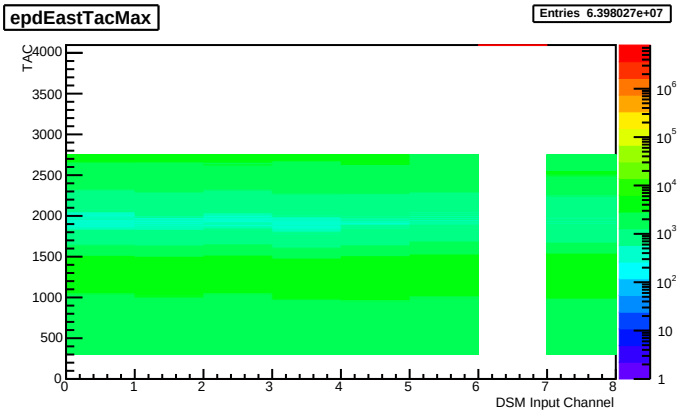
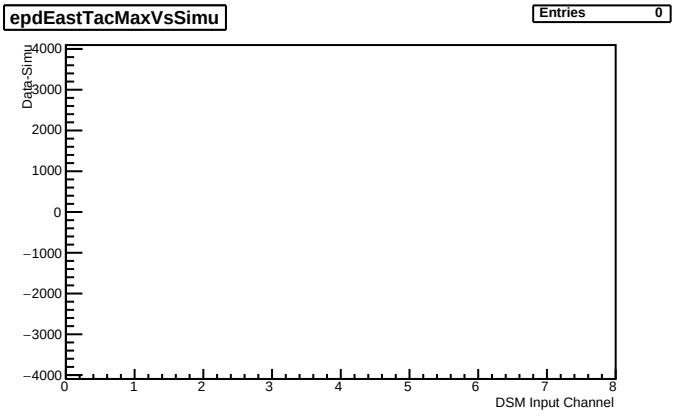
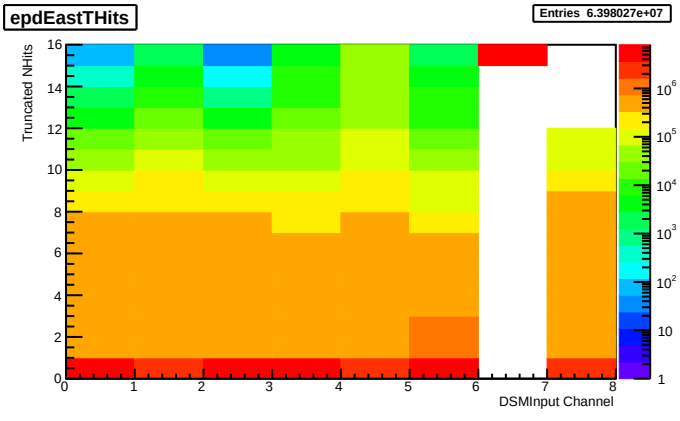
Entries 0
Data
Simu

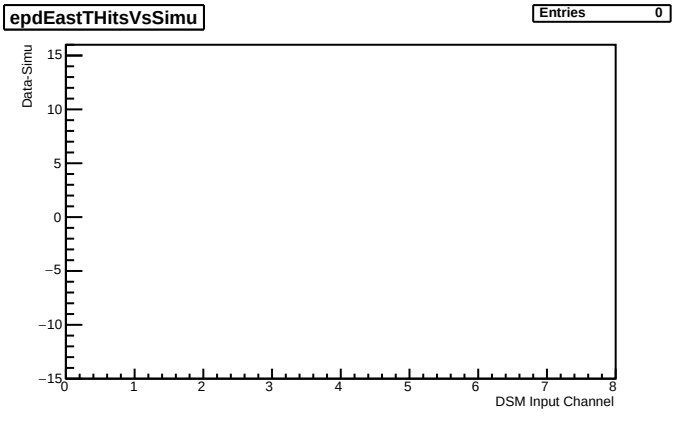

bbcSmallWestTacMax
Entries7997534


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 6.398027e+07
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 6.398027e+07
Truncated NHits
DSMInput Channel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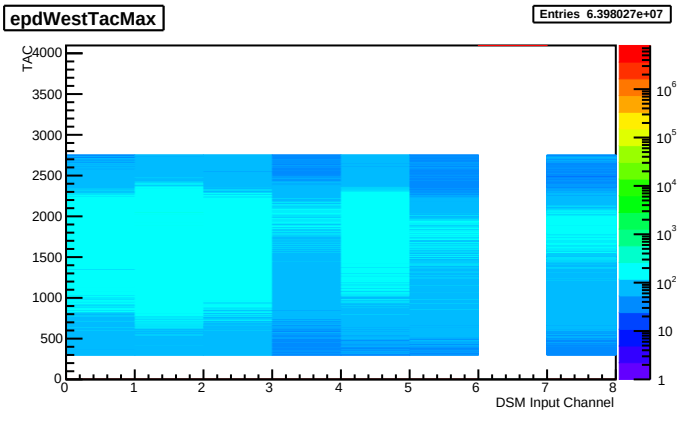
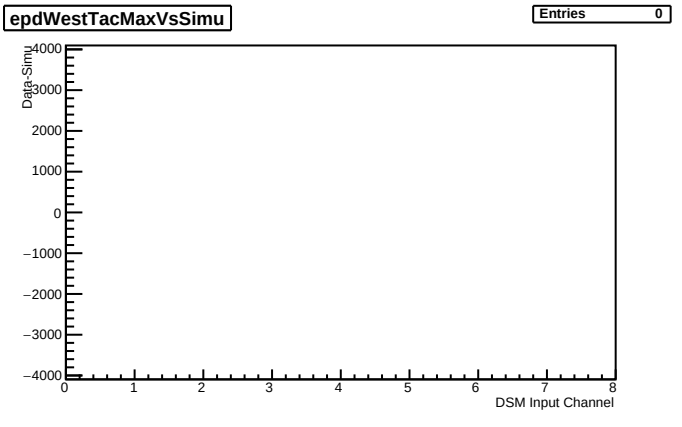
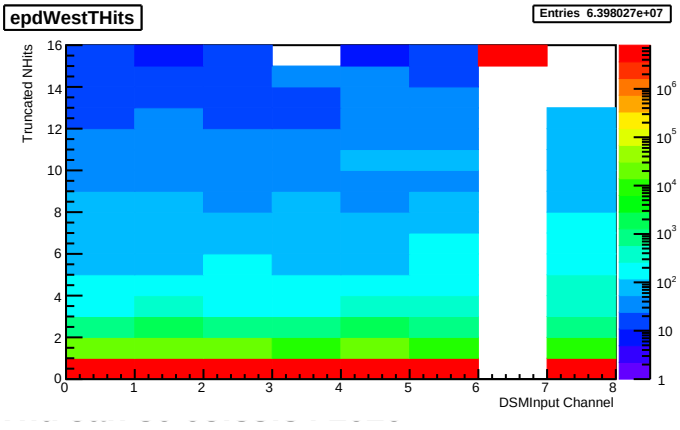
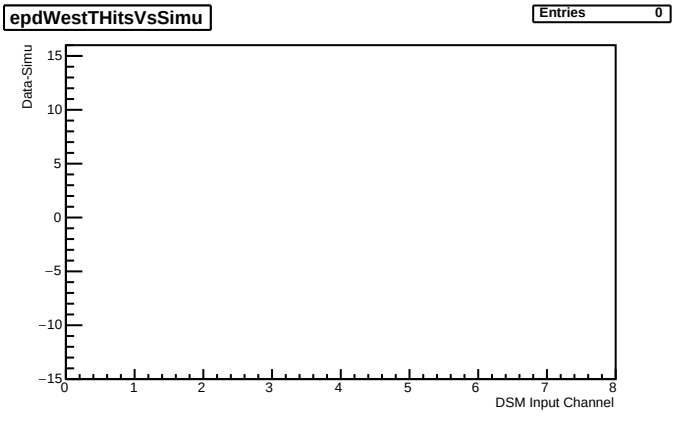
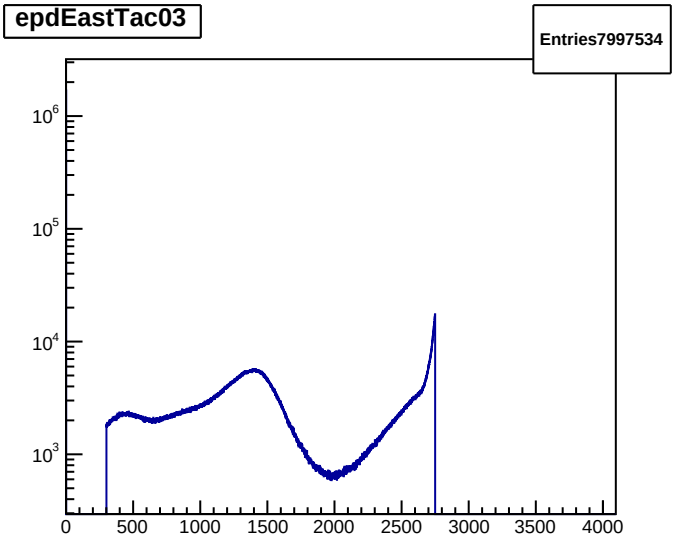
Entries 0
Data-Simu
DSM Input Channel

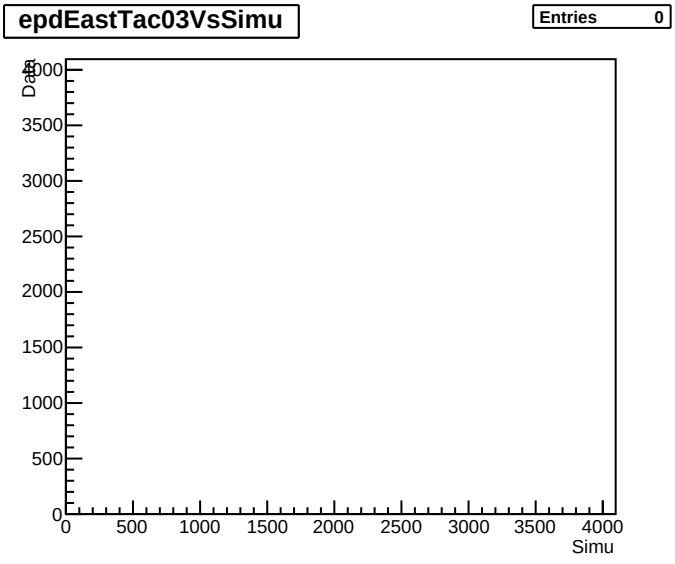

epdWestTacMax
Entries 6.398027e+07
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 6.398027e+07
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries7997534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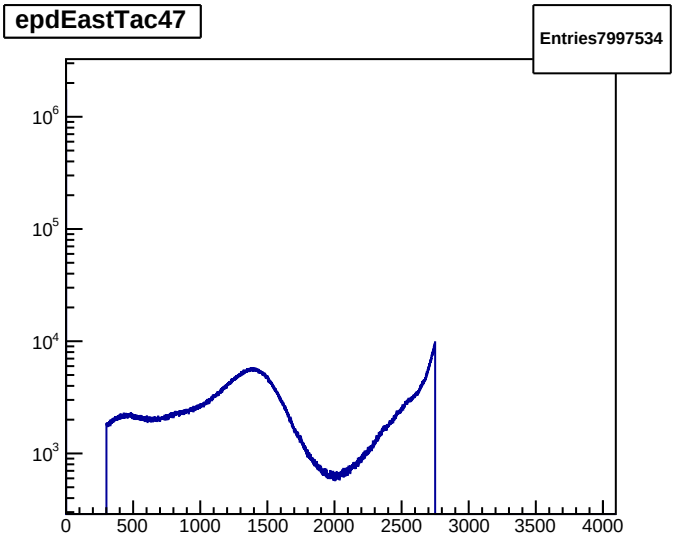
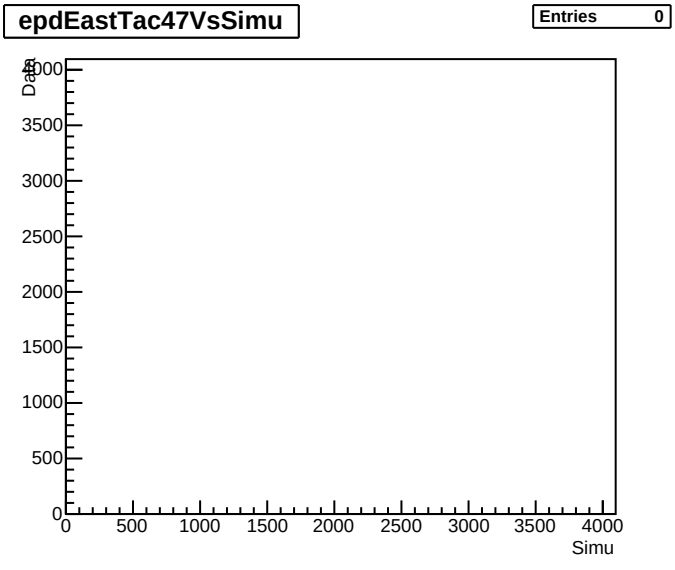
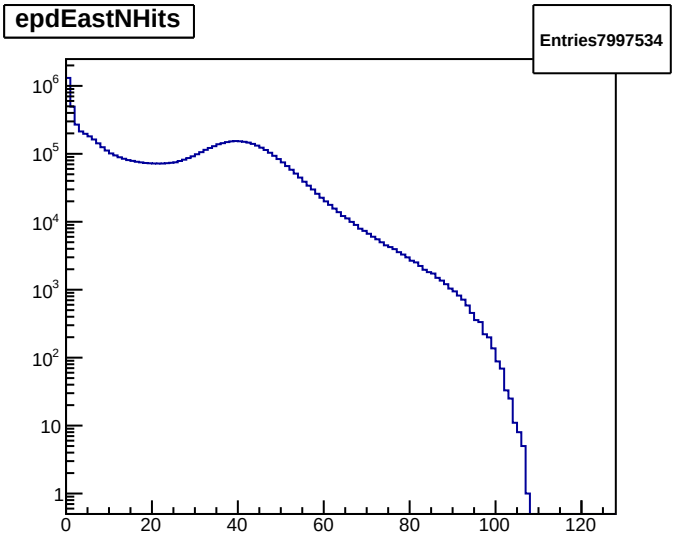
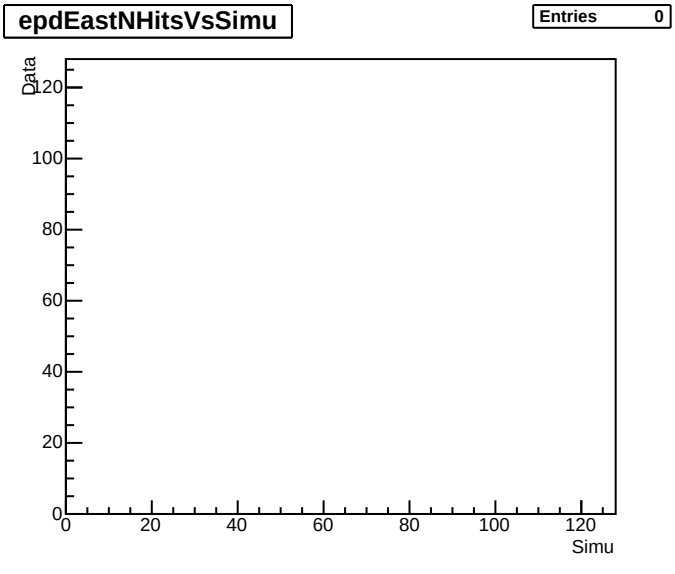
Entries 0
Data
Simu


epdEastTac47
Entries7997534


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries7997534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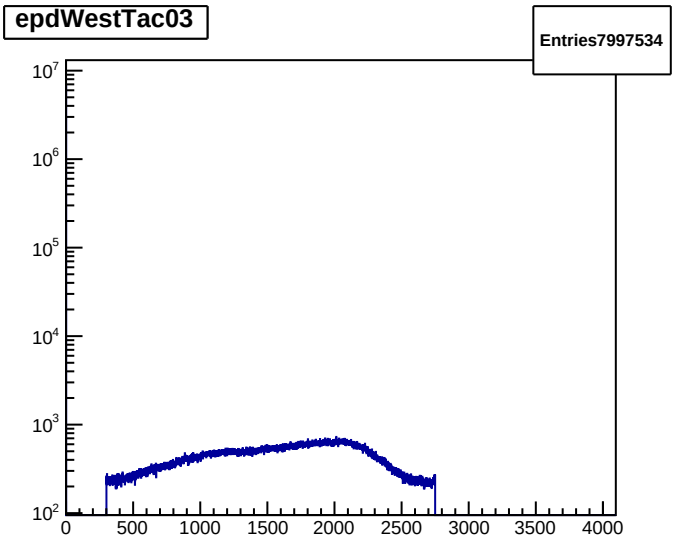
Entries 0
Data
Simu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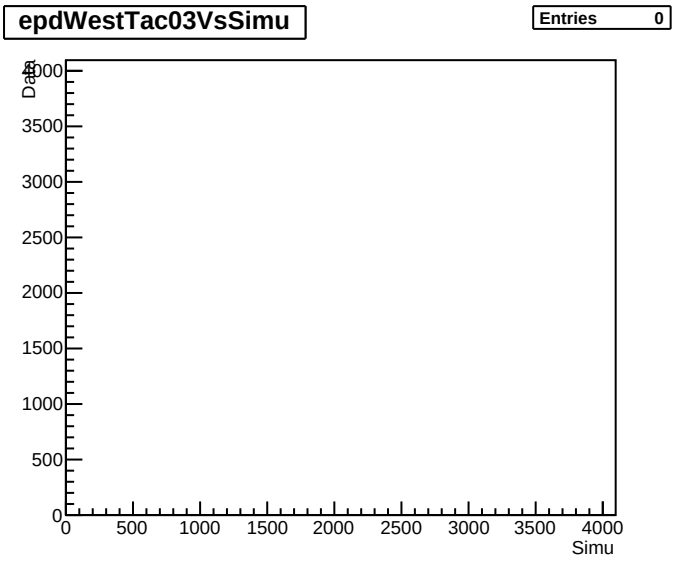
Entries7997534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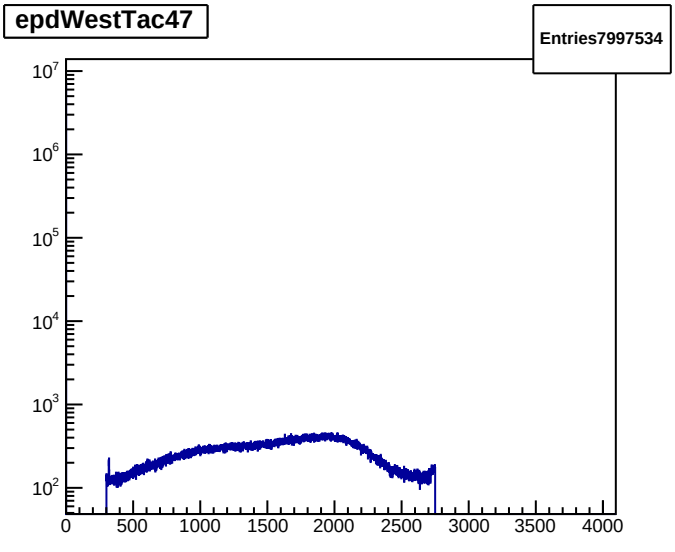
Entries 0
Data
Simu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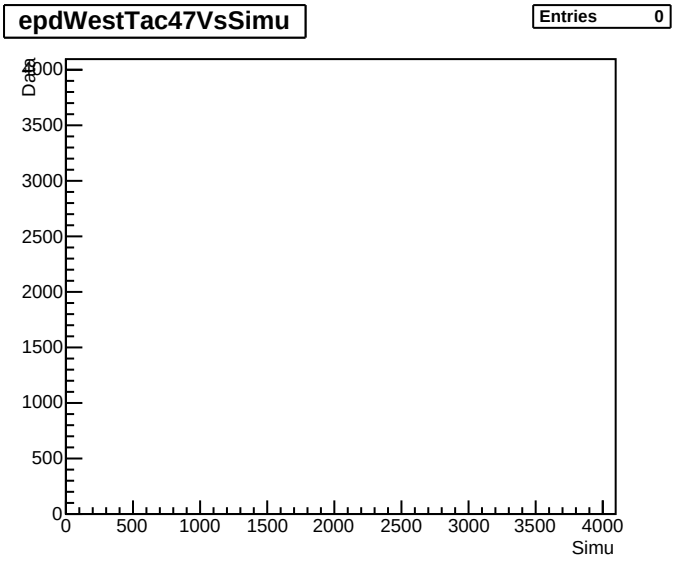
Entries7997534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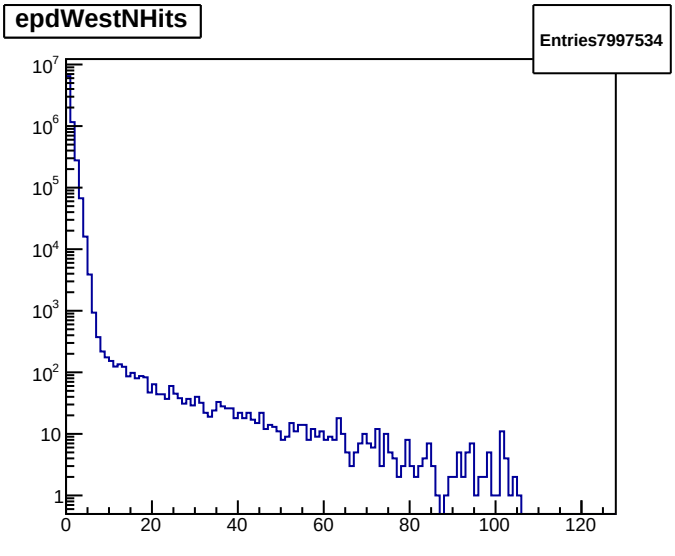
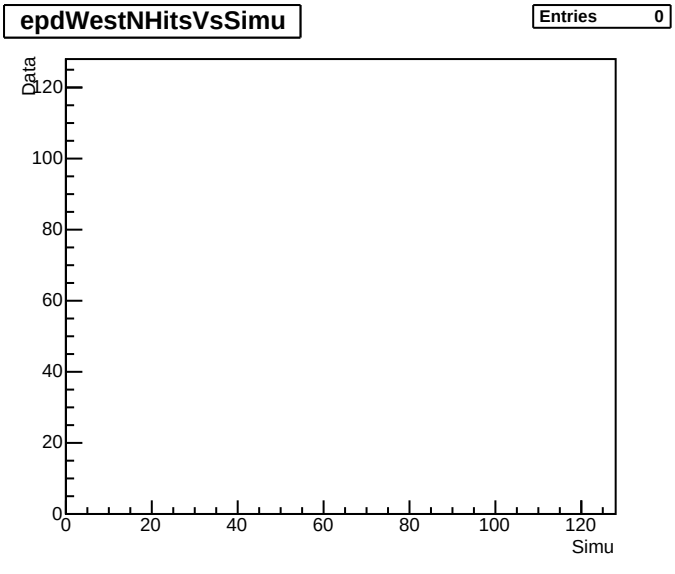
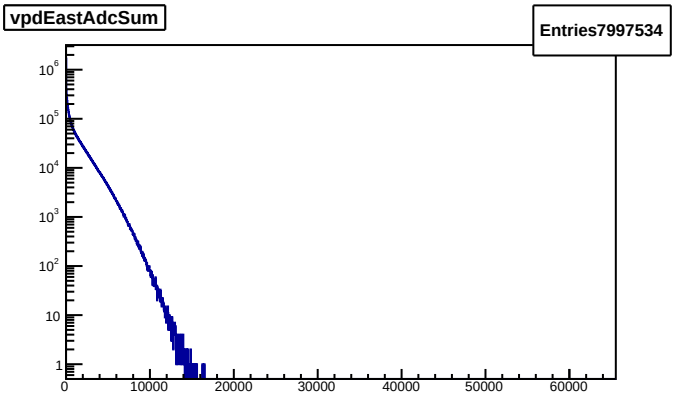
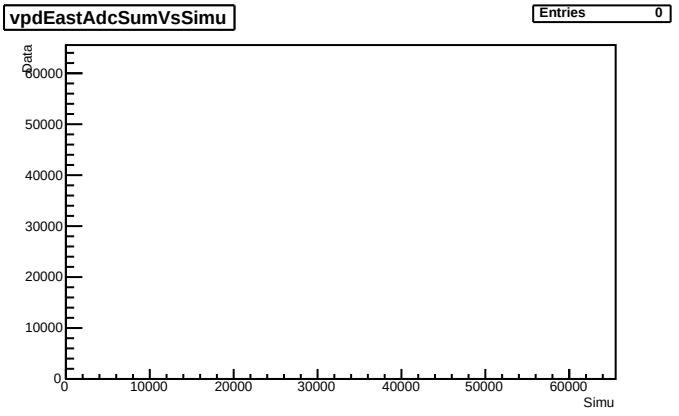
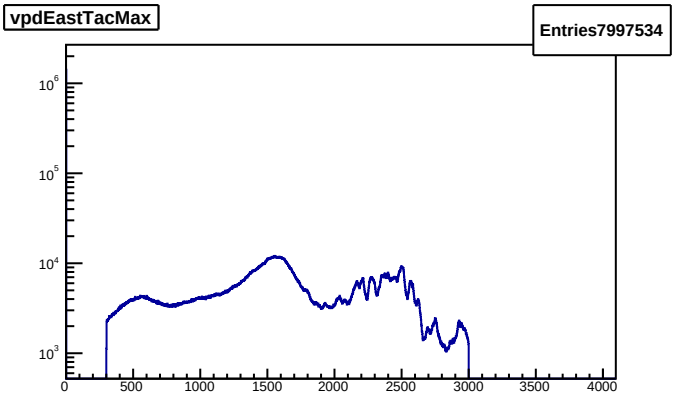
Entries 0
Data
Simu

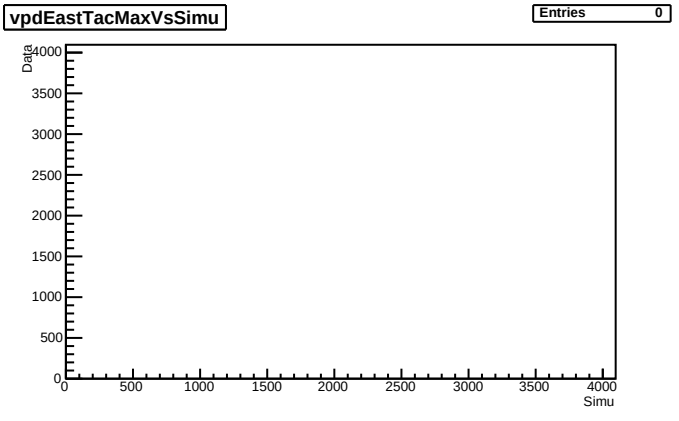

epdWestNHits
Entries7997534

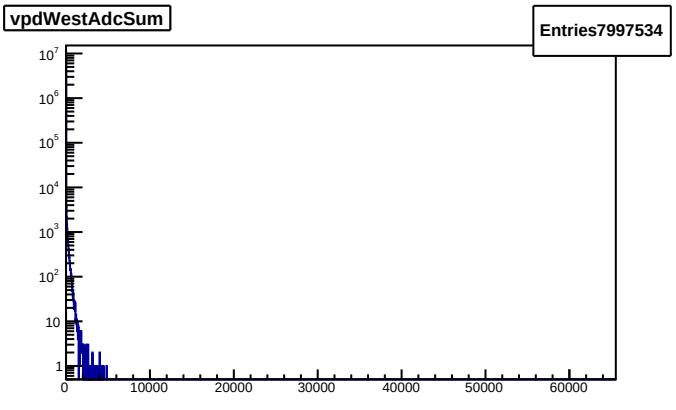

epdWestNHitsVsSimu
Entries 0
Data
Simu

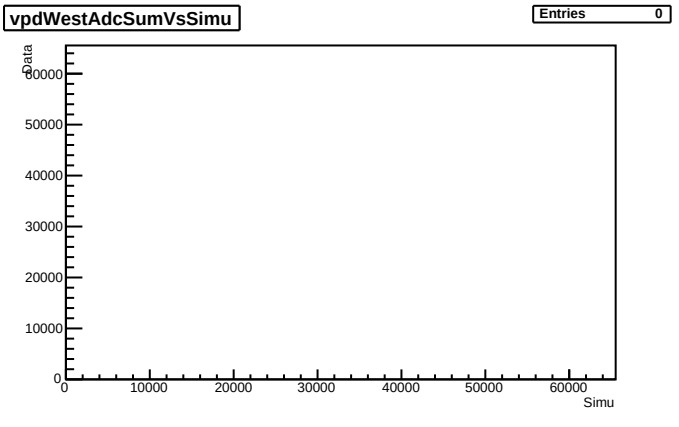

vpdEastAdcSum
Entries7997534

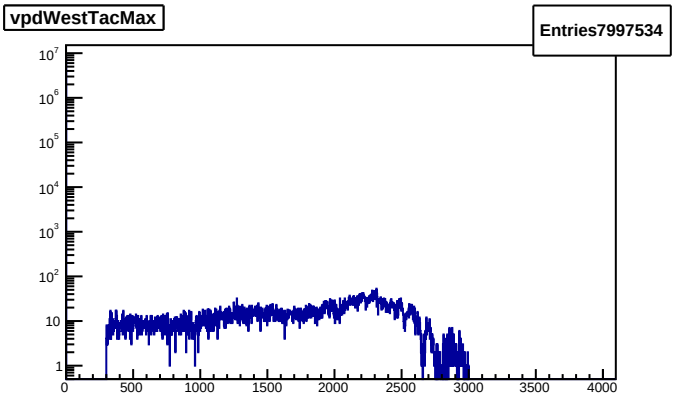

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

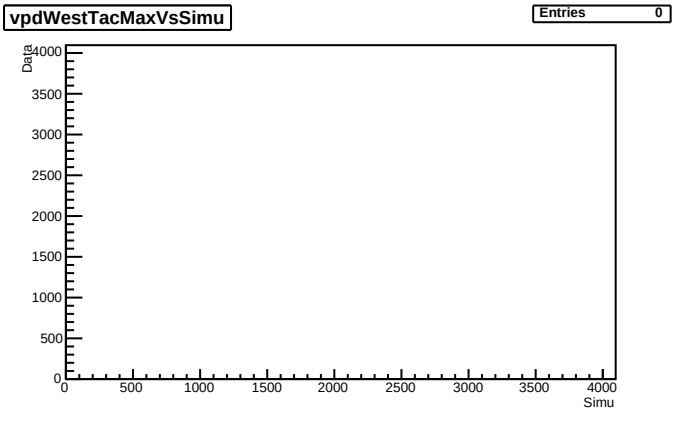

vpdEastTacMax
Entries7997534

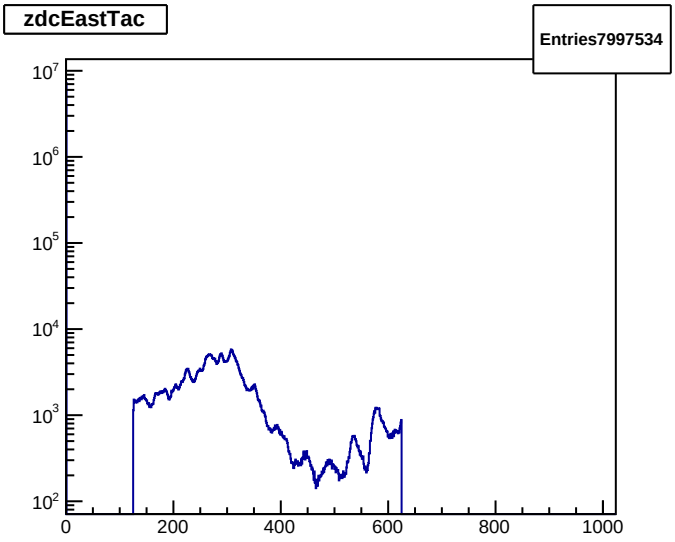

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

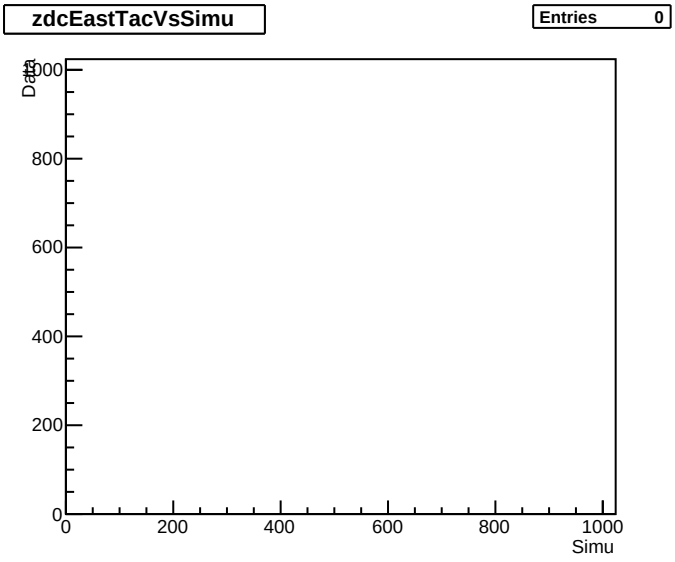

vpdWestAdcSum
Entries7997534

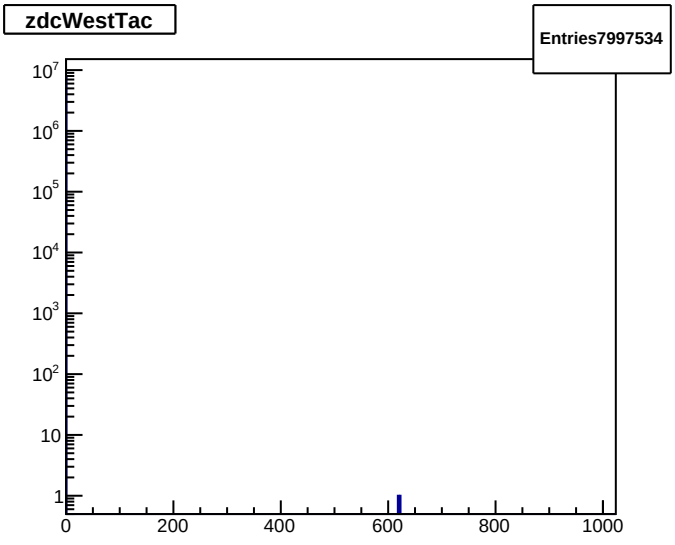

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

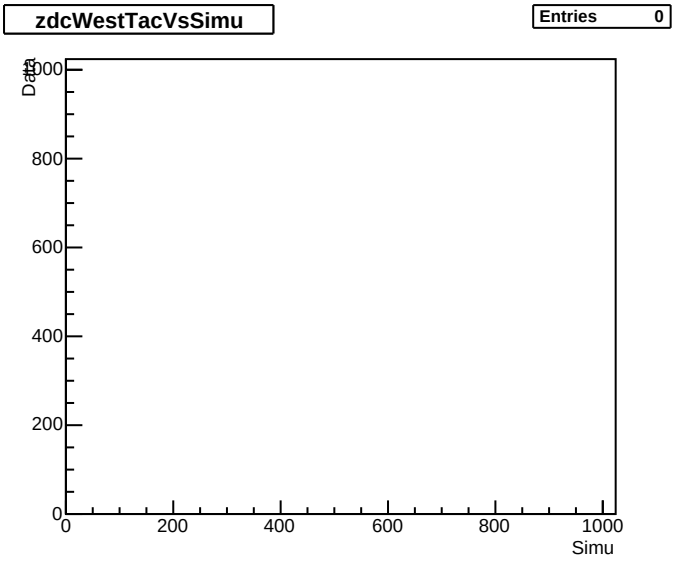

vpdWestTacMax
Entries7997534

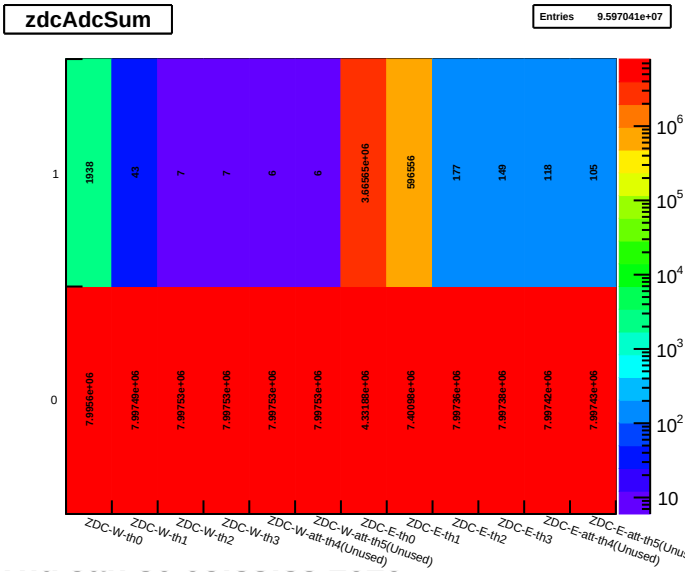

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

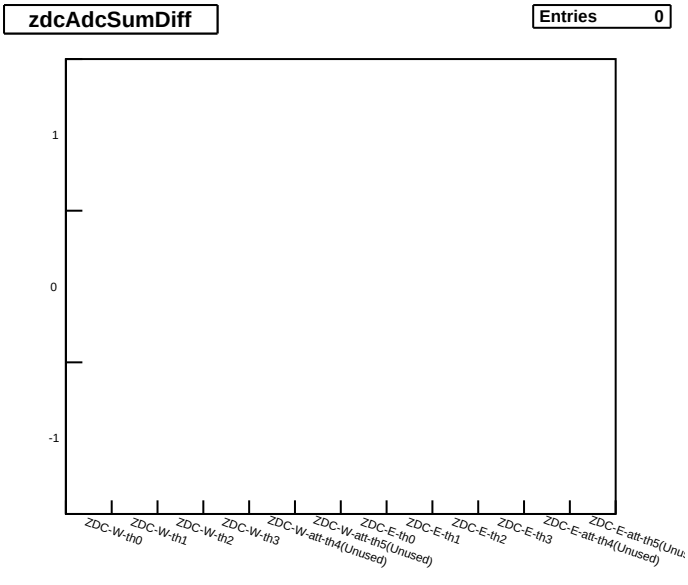

zdcEastTac
Entries7997534

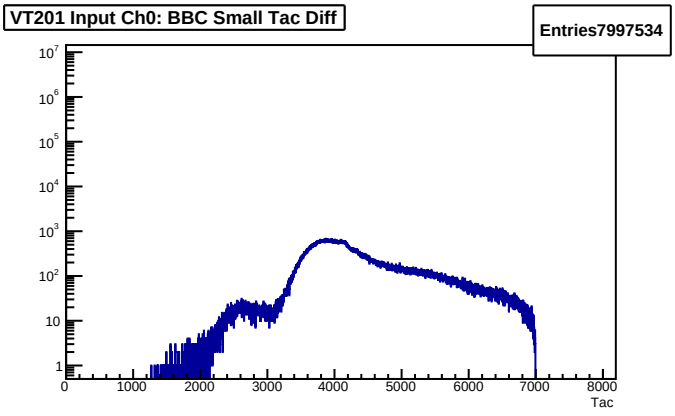

zdcEastTacVsSimu
Entries 0
Data
Simu

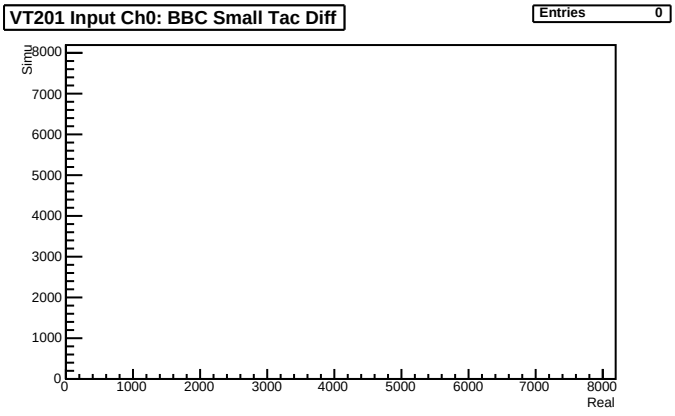

zdcWestTac
Entries7997534

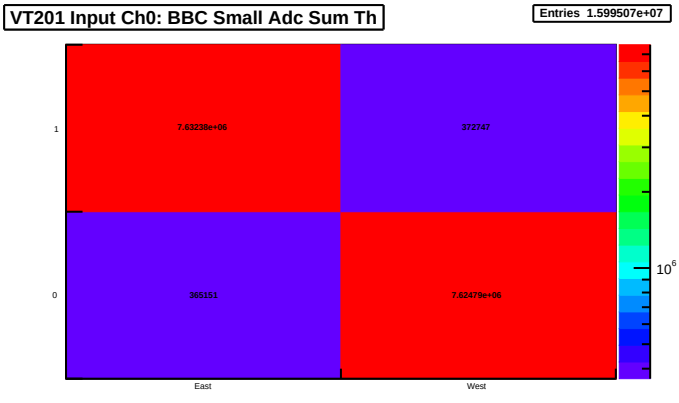

zdcWestTacVsSimu
Entries 0
Data
Simu

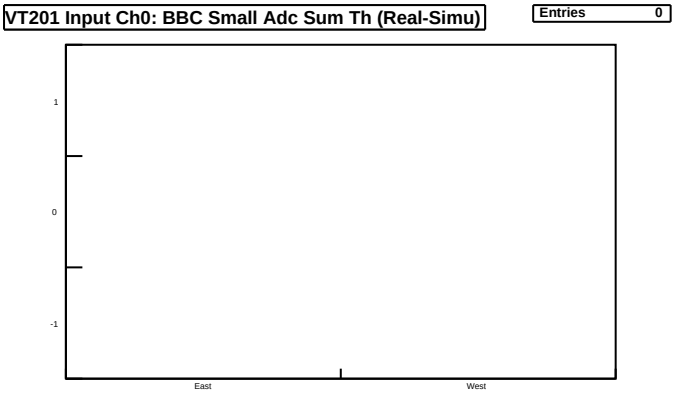

zdcAdcSum
Entries 9.597041e+07
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

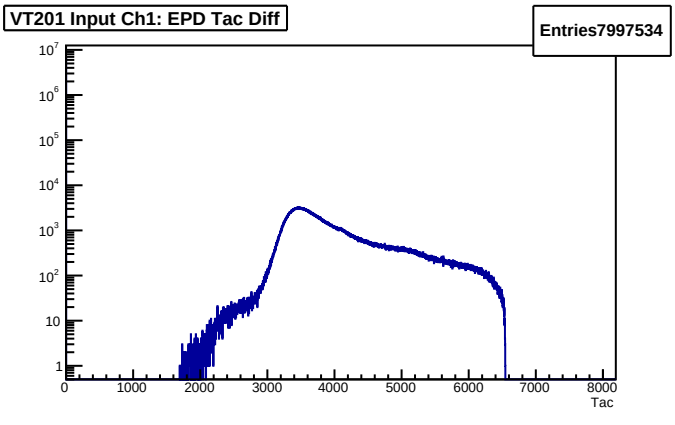

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

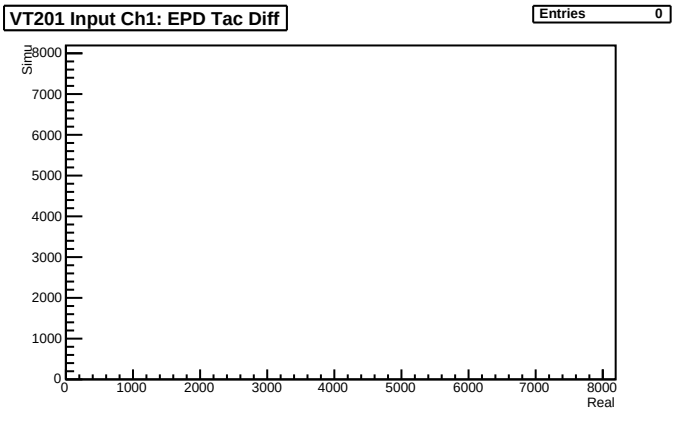

VT201 Input Ch0: BBC Small Tac Diff
Entries7997534
Tac

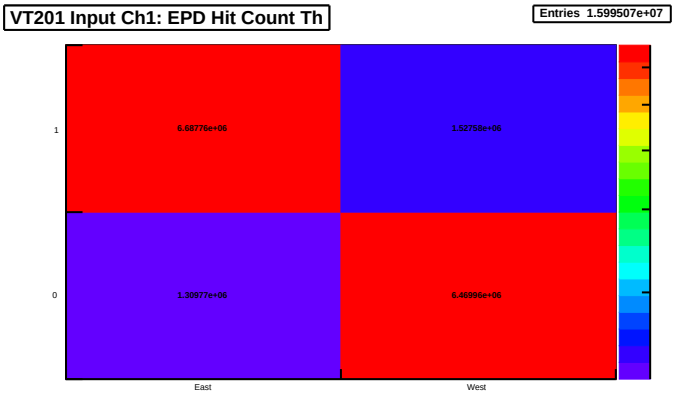

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

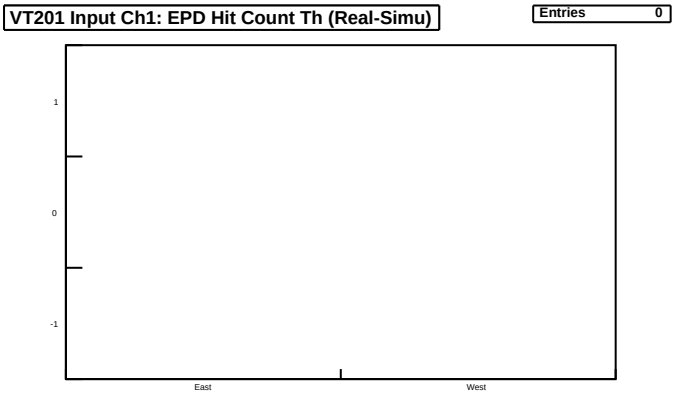

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1.599507e+07
7.63238e+06
372747
365151
7.62479e+06
East
West

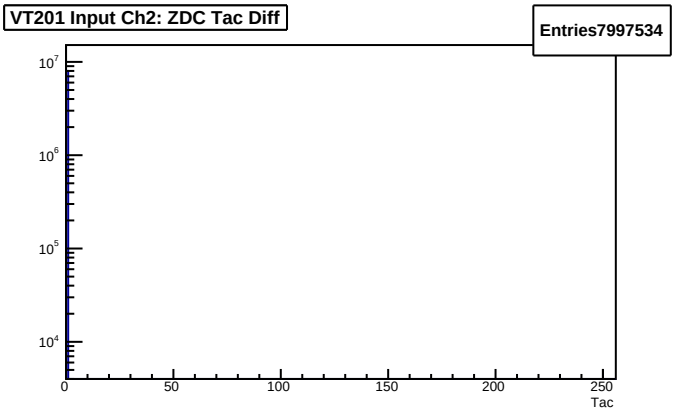

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

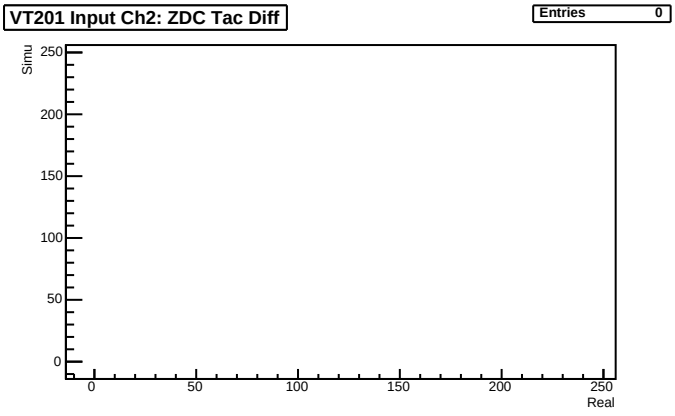

VT201 Input Ch1: EPD Tac Diff
Entries7997534
Tac

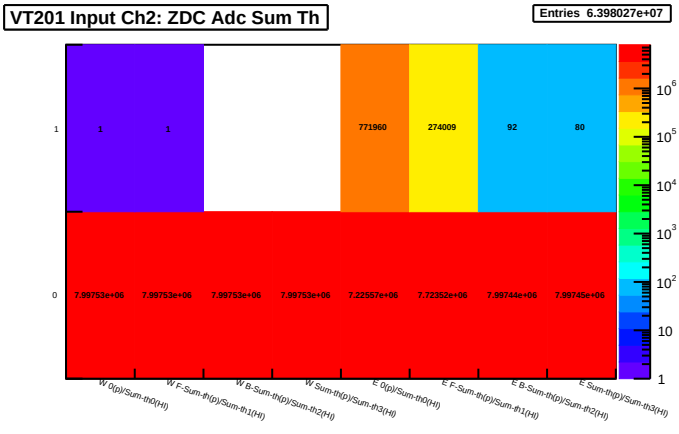

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

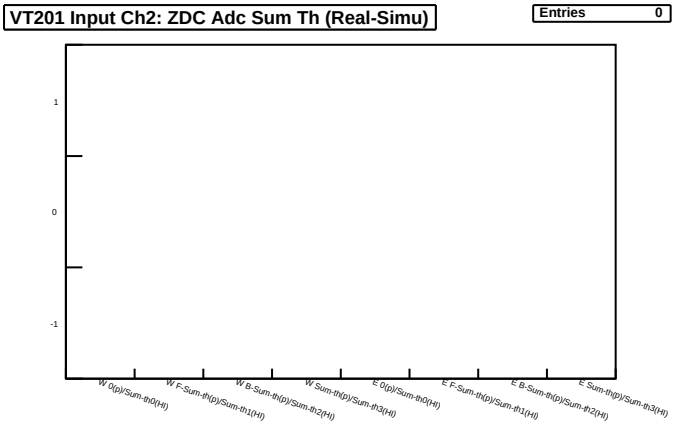

VT201 Input Ch1: EPD Hit Count Th
Entries 1.599507e+07
6.68776e+06
1.52758e+06
1.30977e+06
6.46996e+06
East
West

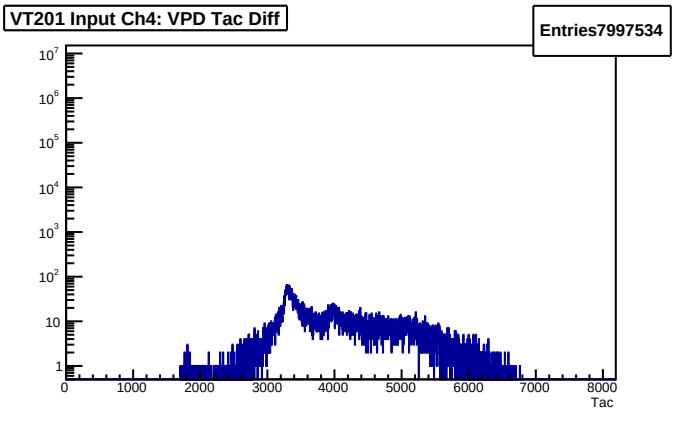

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

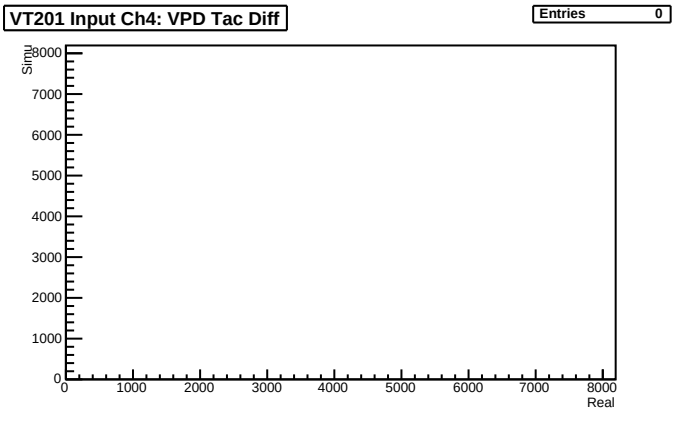

VT201 Input Ch2: ZDC Tac Diff
Entries7997534
Tac

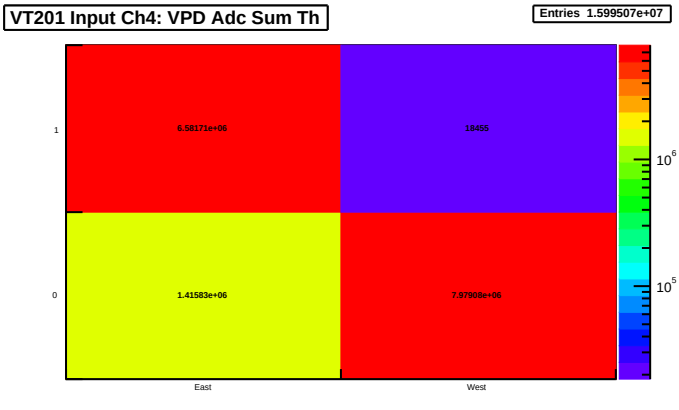

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

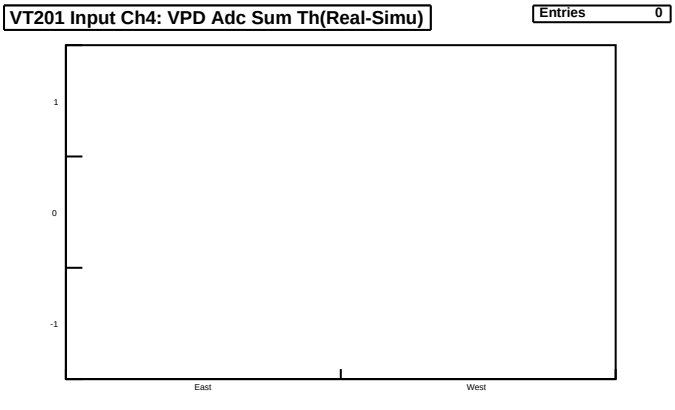

VT201 Input Ch2: ZDC Adc Sum Th
Entries 6.398027e+07
1
1
771960
274009
92
80
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.22557e+06
7.72352e+06
7.99744e+06
7.99745e+06
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

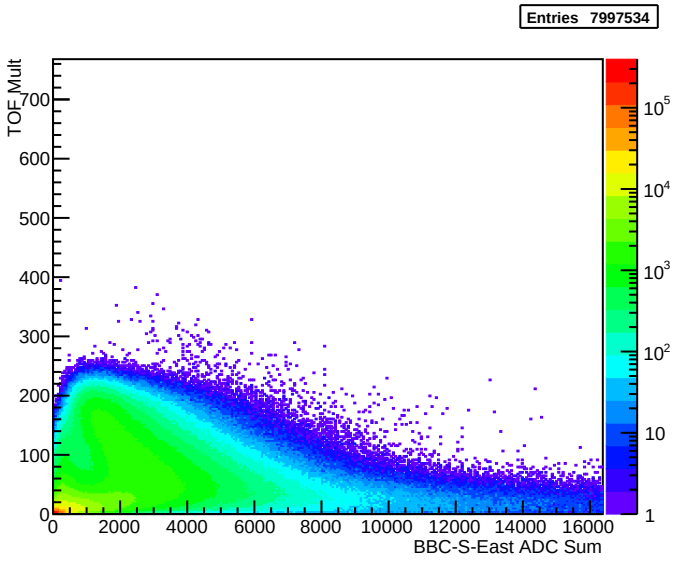

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

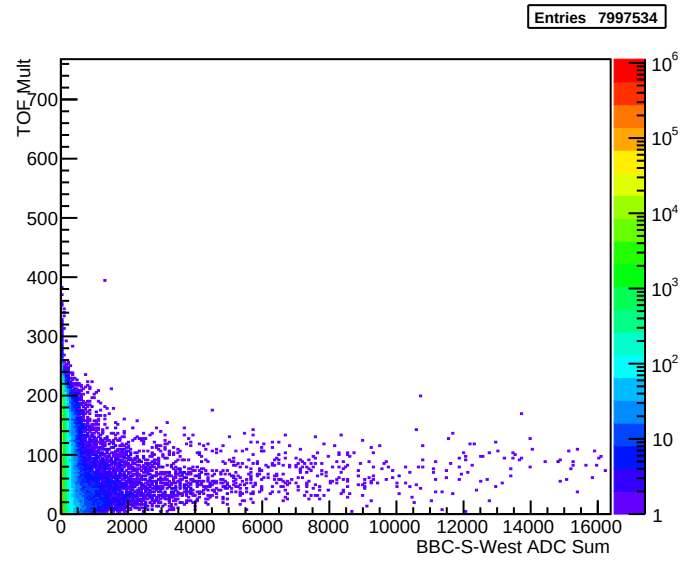

VT201 Input Ch4: VPD Tac Diff
Entries7997534
Tac

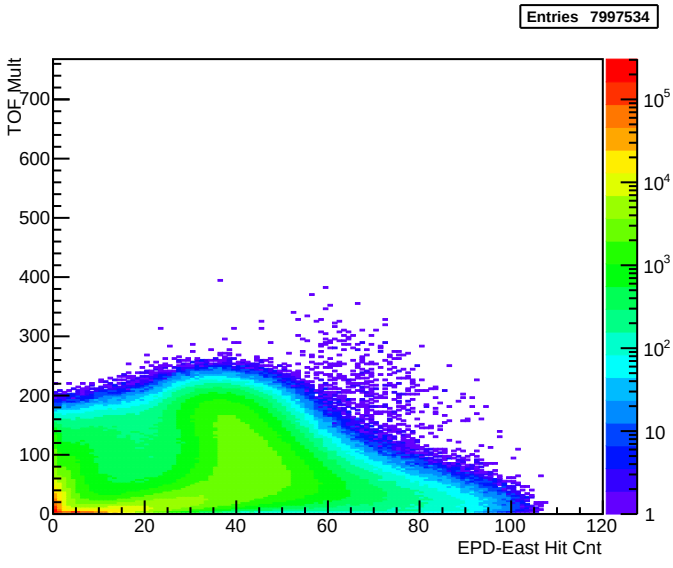

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

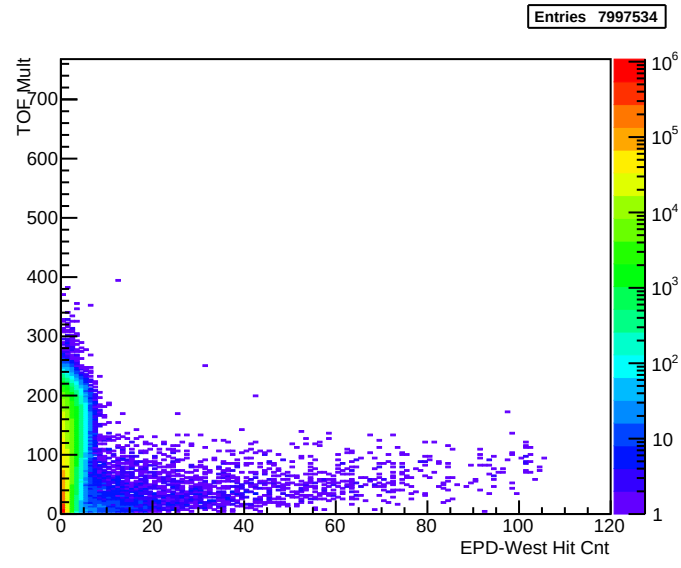

VT201 Input Ch4: VPD Adc Sum Th
Entries 1.599507e+07
6.58171e+06
18455
1.41583e+06
7.97908e+06
East
West

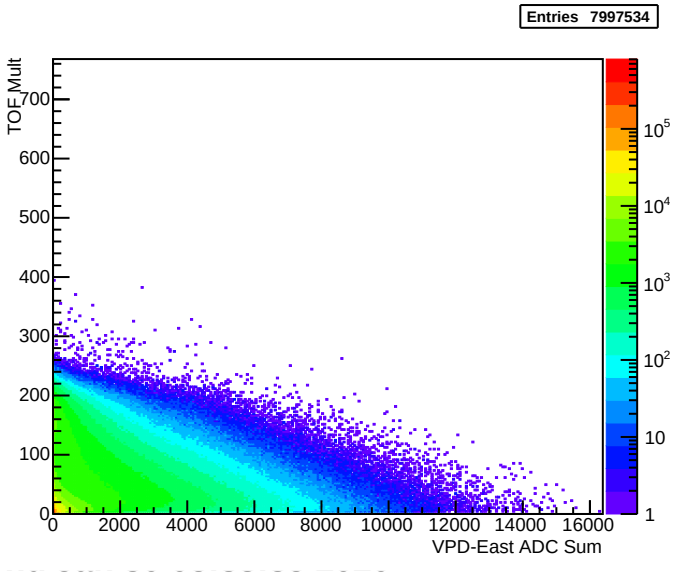

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

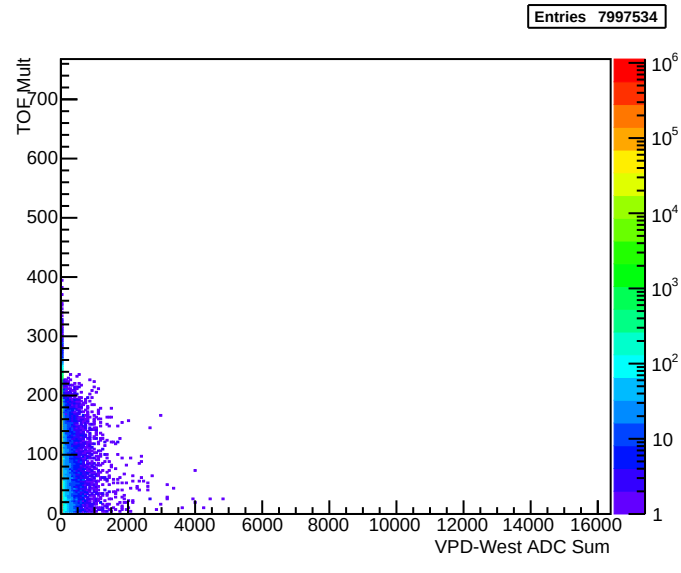

Entries 7997534
TOF_Mult
BBC-S-East ADC Sum

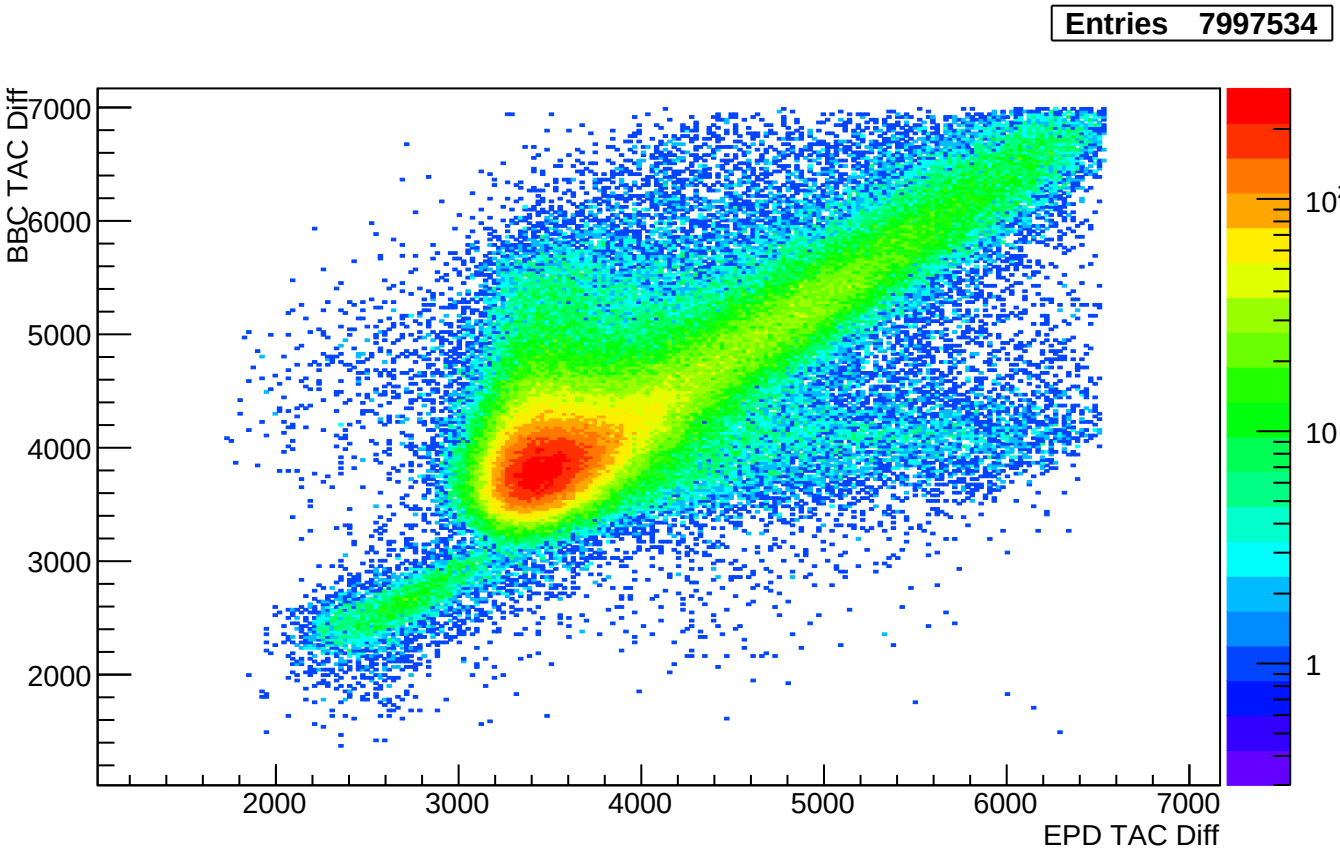

Entries 7997534
TOF_Mult
BBC-S-West ADC Sum

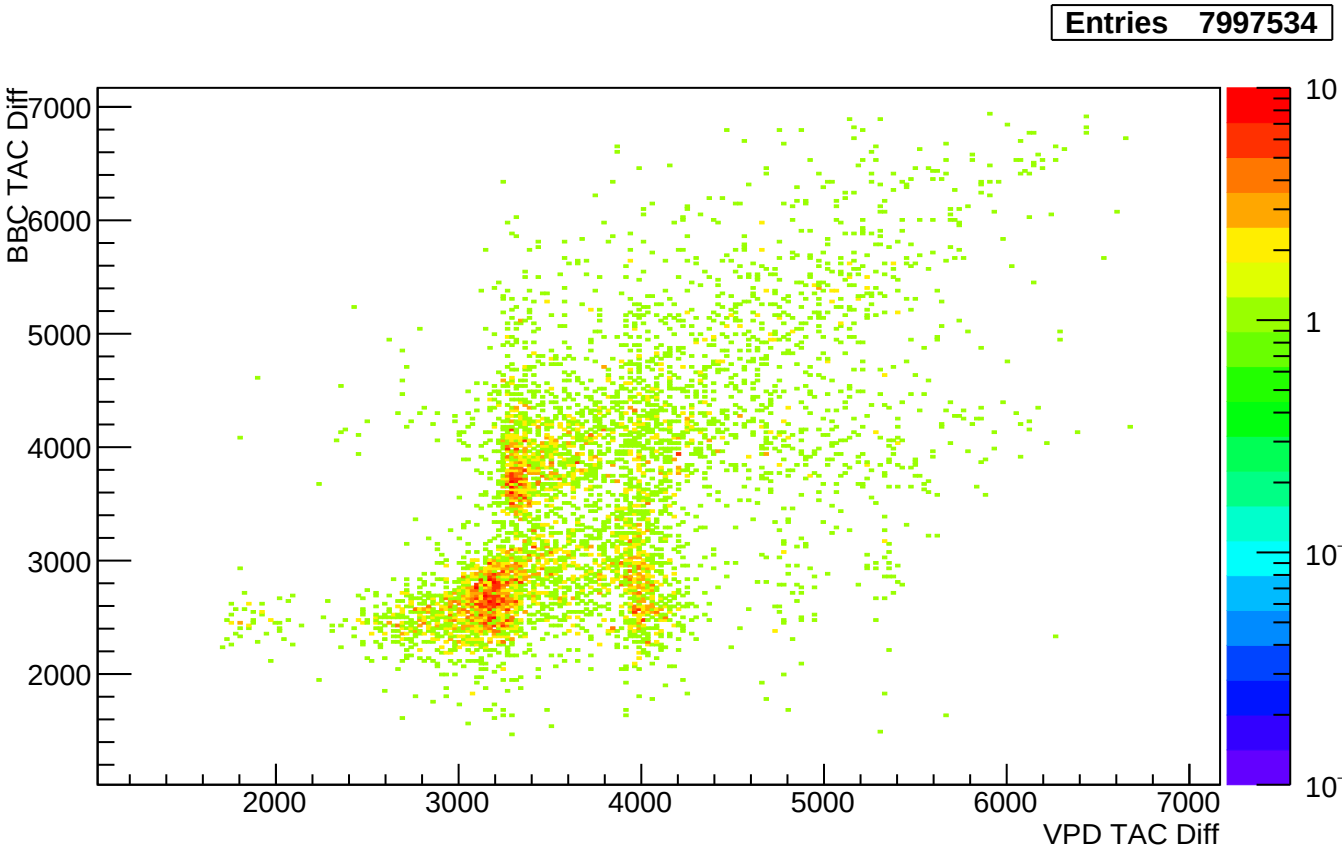

Entries 7997534
TOF_Mult
EPD-East Hit Cnt

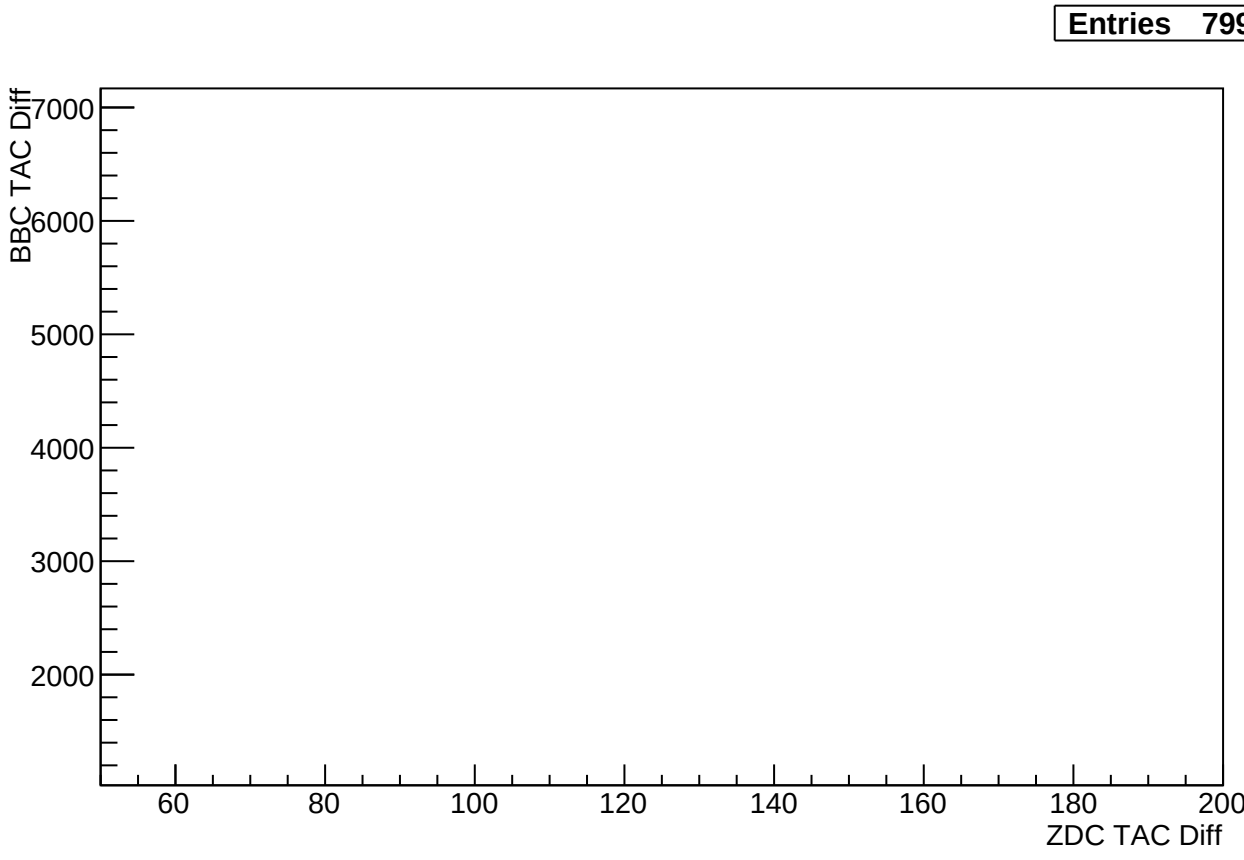

Entries 7997534
TOF_Mult
EPD-West Hit Cnt

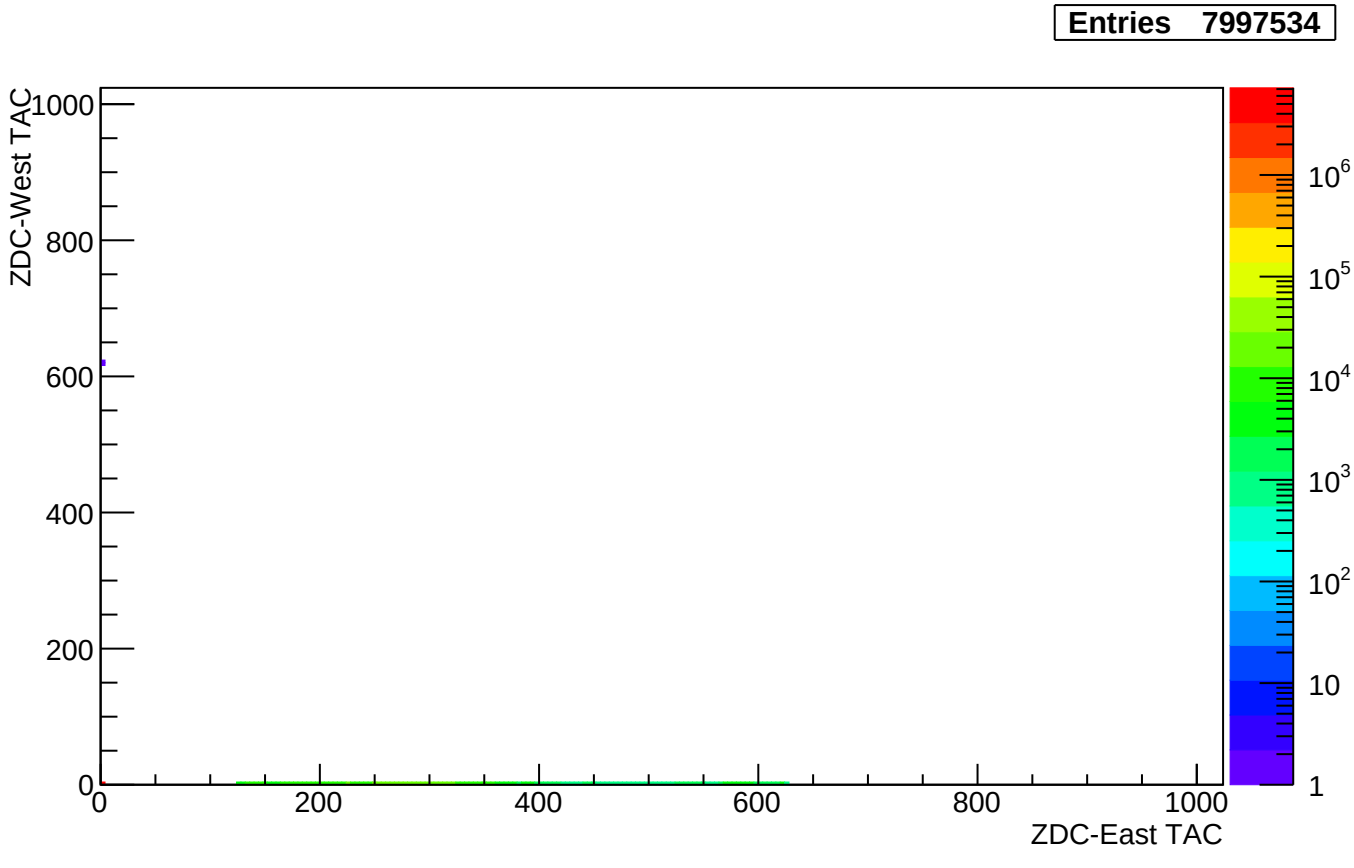

Entries 7997534
TOF_Mult
VPD-East ADC Sum

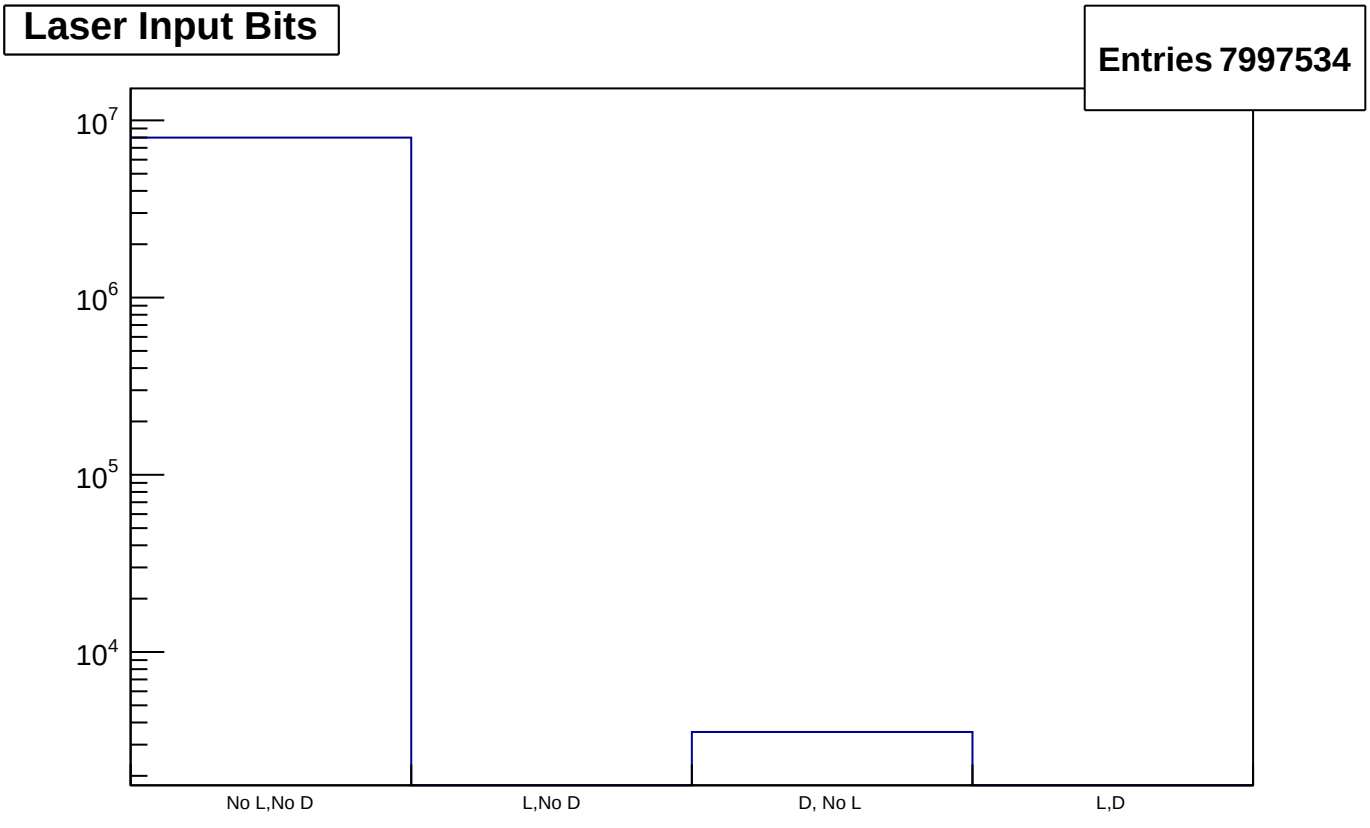

Entries 7997534
TOF_Mult
VPD-West ADC Sum

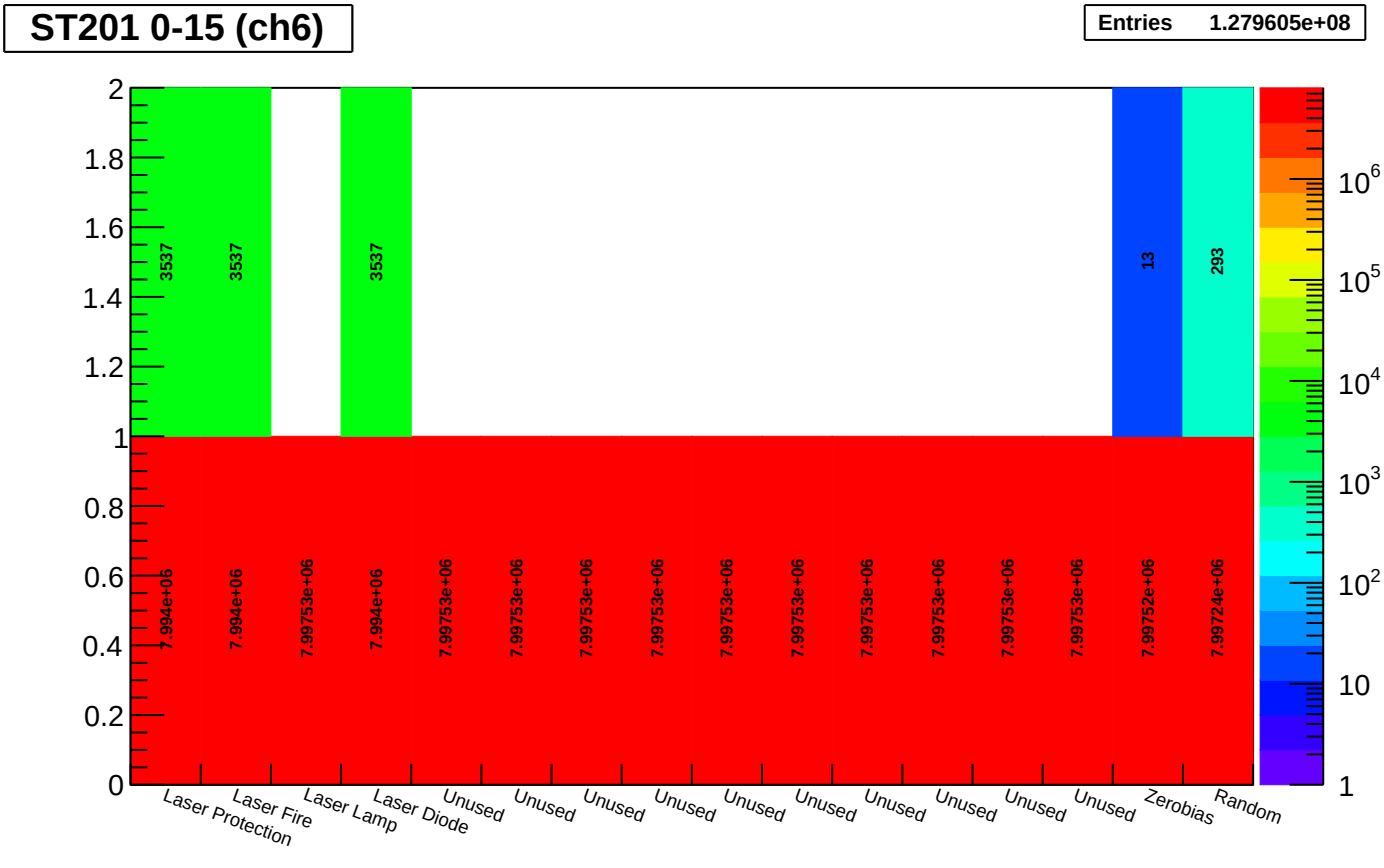

Entries 7997534
BBC TAC Diff
EPD TAC Diff
2000
3000
4000
5000
6000
7000
1
10
10^2

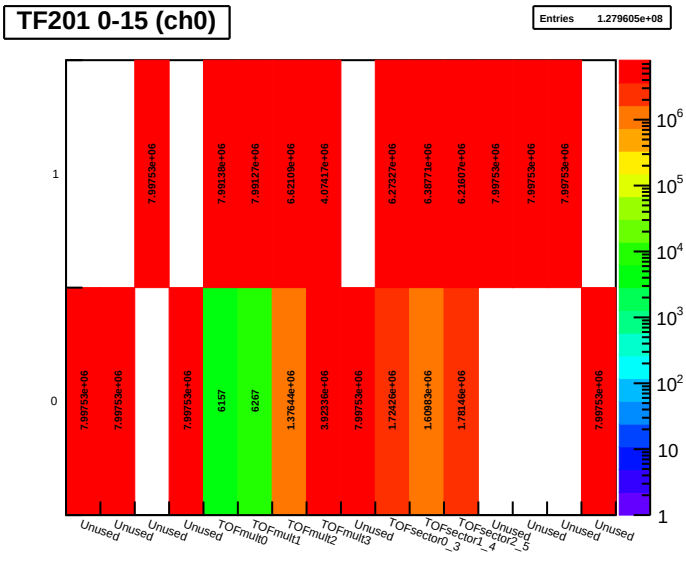

Entries 7997534
BBC TAC Diff
VPD TAC Diff
2000
3000
4000
5000
6000
7000
10^{-2}
10^{-1}
1
10

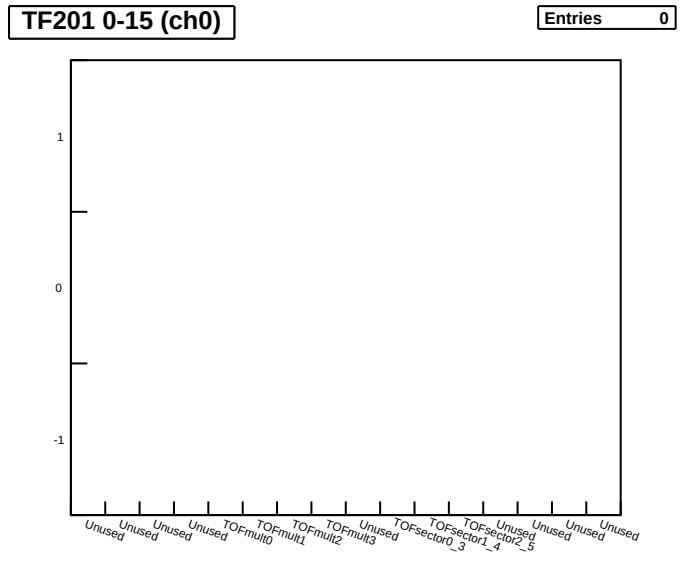

Entries 7997534
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff

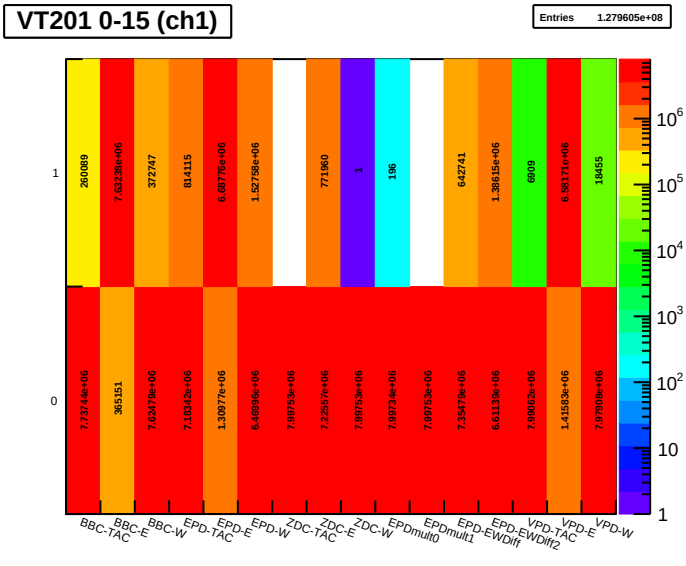

Entries 7997534
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^6
10^5
10^4
10^3
10^2
10
1

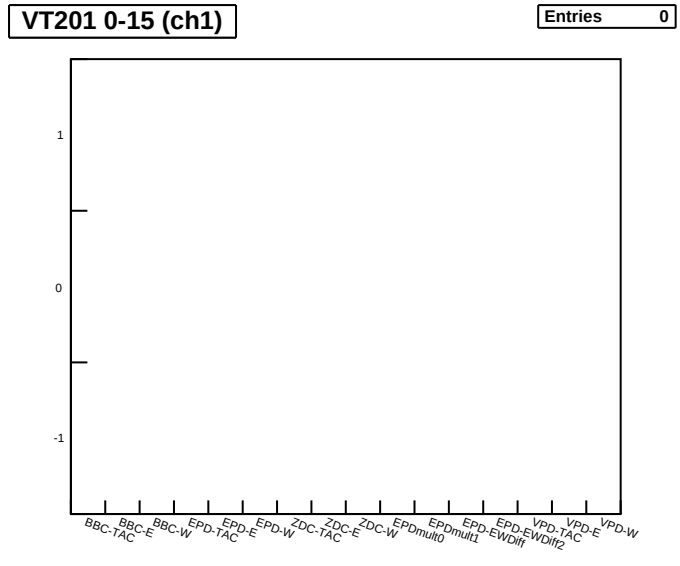

Laser Input Bits
Entries 7997534
10^7
10^6
10^5
10^4
No L,No D
L,No D
D, No L
L,D

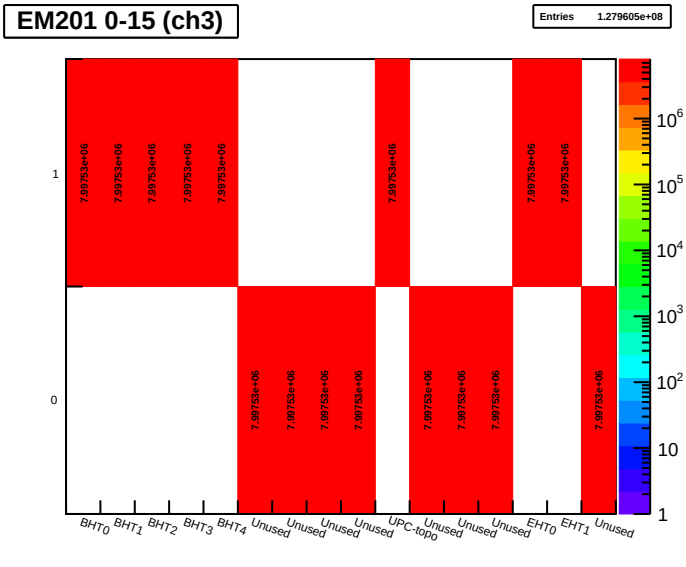

ST201 0-15 (ch6)
Entries 1.279605e+08
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3537
3537
3537
13
293
7.994e+06
7.994e+06
7.99753e+06
7.994e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99752e+06
7.99724e+06
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^6
10^5
10^4
10^3
10^2
10
1

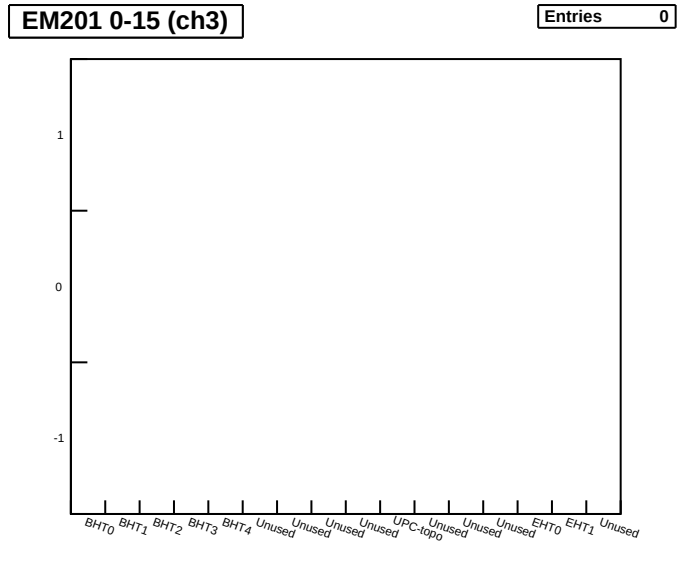

TF201 0-15 (ch0)
Entries 1.279605e+08
1
0
7.99753e+06
7.99753e+06
7.99753e+06
7.99138e+06
7.99127e+06
6.62109e+06
4.07417e+06
6.27327e+06
6.38771e+06
6.21607e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
6157
6267
1.37644e+06
3.92336e+06
7.99753e+06
1.72426e+06
1.60983e+06
1.78146e+06
7.99753e+06
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^6
10^5
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 1.279605e+08
1
0
260089
7.63238e+06
372747
814115
6.68776e+06
1.52758e+06
771960
1
196
642741
1.38615e+06
6909
6.59171e+06
19455
7.73744e+06
365151
7.62473e+06
7.18342e+06
1.30977e+06
6.46996e+06
7.99753e+06
7.22557e+06
7.99753e+06
7.99734e+06
7.99753e+06
7.35479e+06
6.61139e+06
7.99062e+06
1.41583e+06
7.97908e+06
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
10^6
10^5
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 1.279605e+08
1
0
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
7.99753e+06
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^6
10^5
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