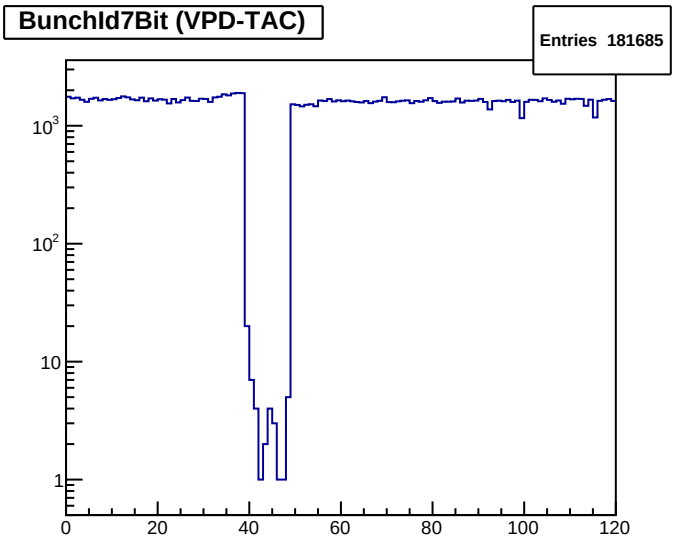
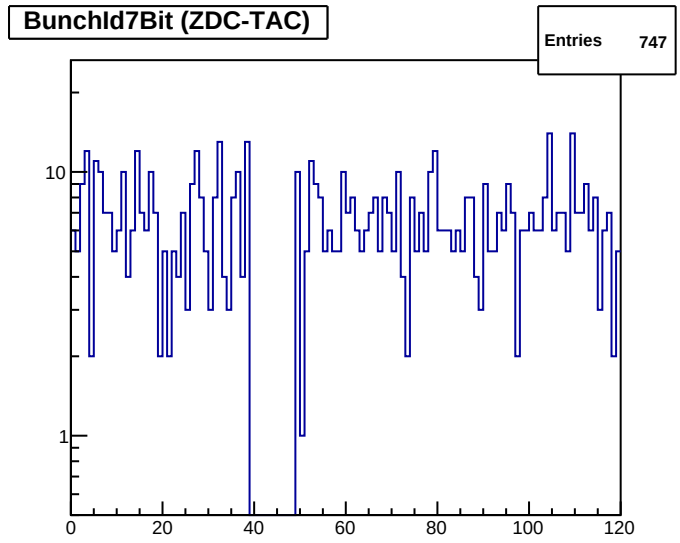
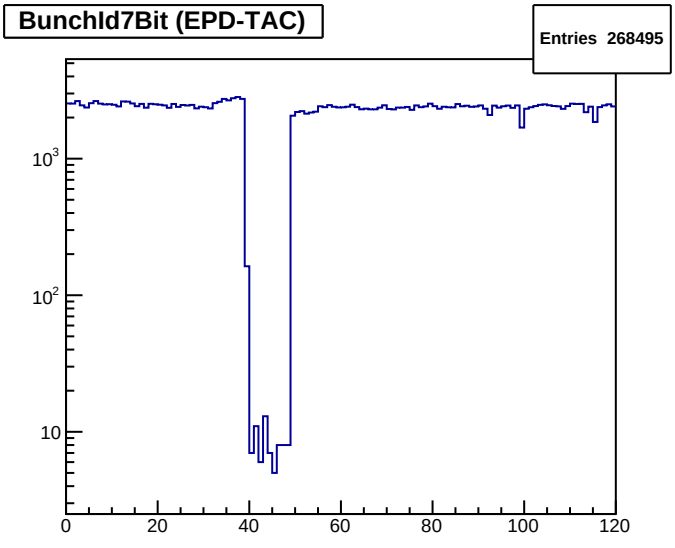
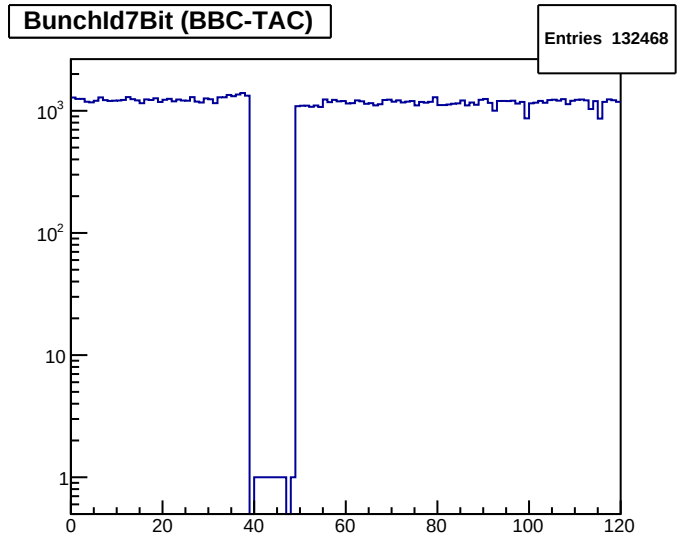
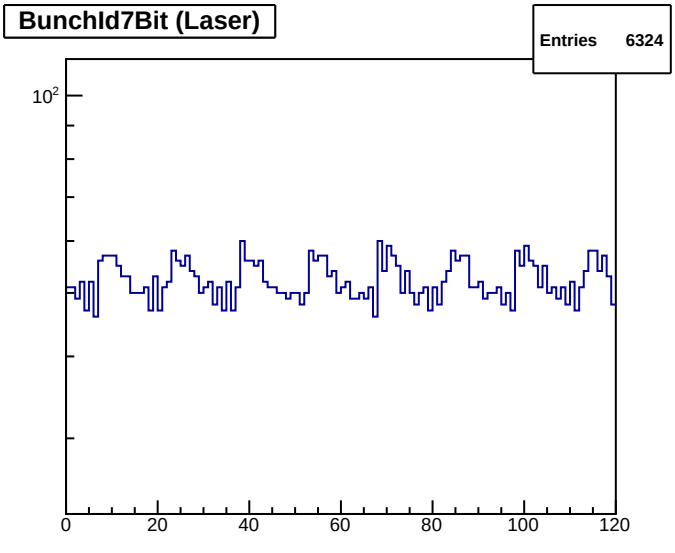
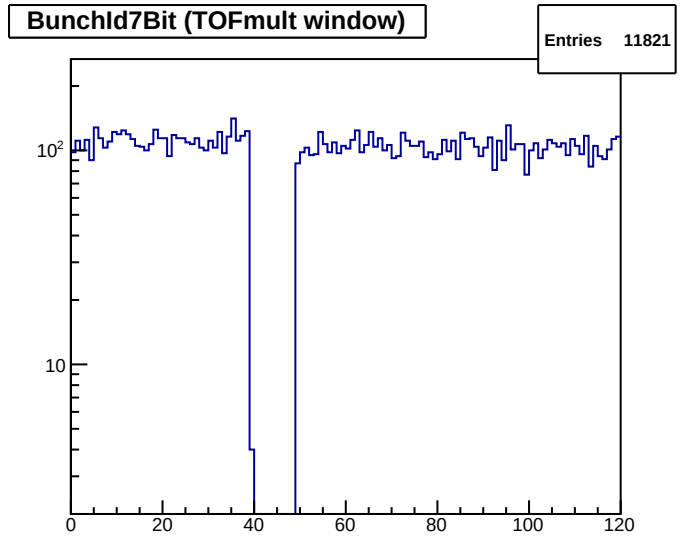

BunchId7Bit (VPD-TAC)
Entries 181685
10^3
10^2
10
1
0
20
40
60
80
100
120

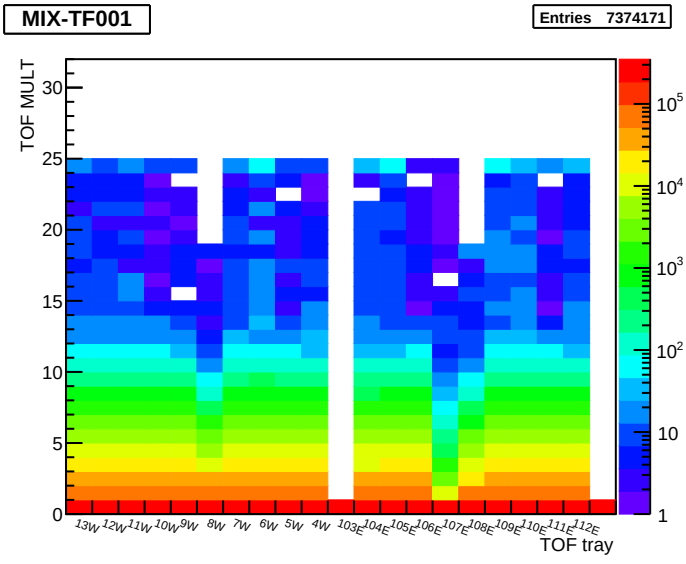

BunchId7Bit (ZDC-TAC)
Entries 747
10
1
0
20
40
60
80
100
120

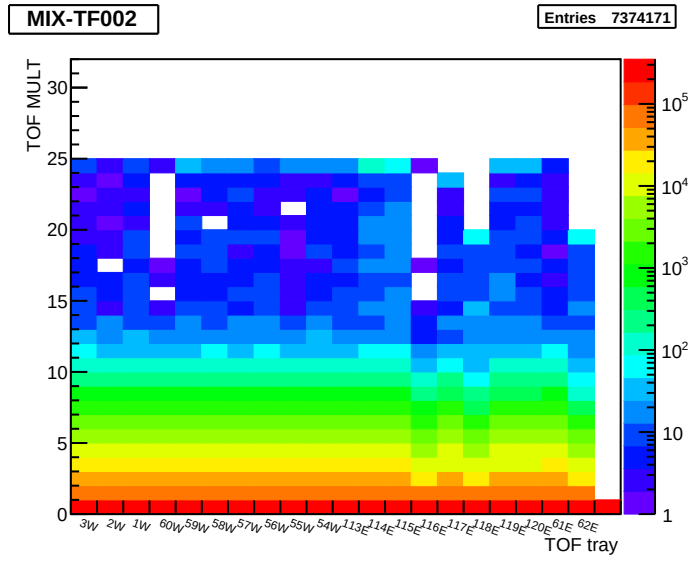

BunchId7Bit (EPD-TAC)
Entries 268495
10^3
10^2
10
0
20
40
60
80
100
120

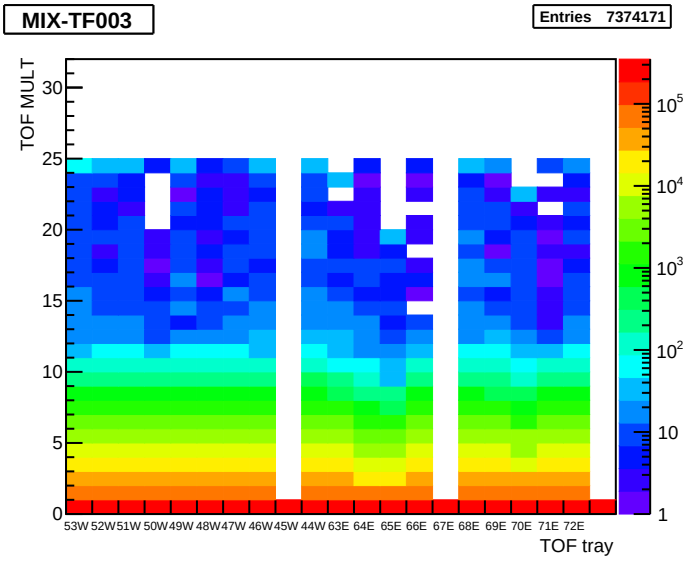

BunchId7Bit (BBC-TAC)
Entries 132468
10^3
10^2
10
1
0
20
40
60
80
100
120

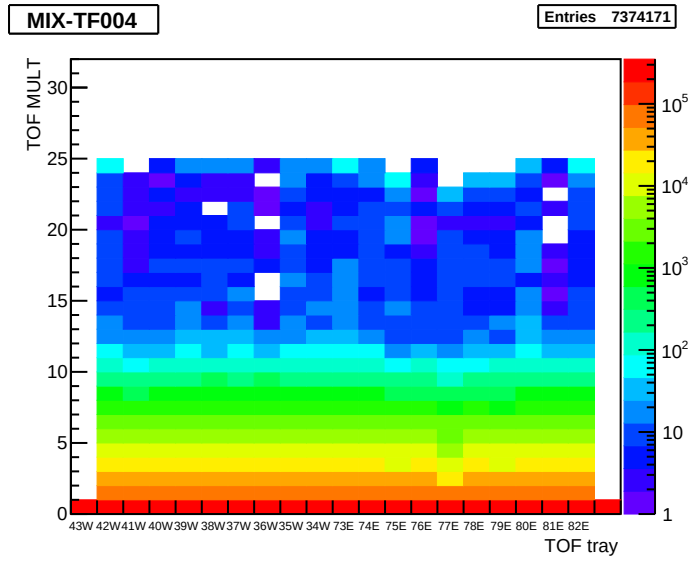

BunchId7Bit (Laser)
Entries 6324
10^2
0
20
40
60
80
100
120

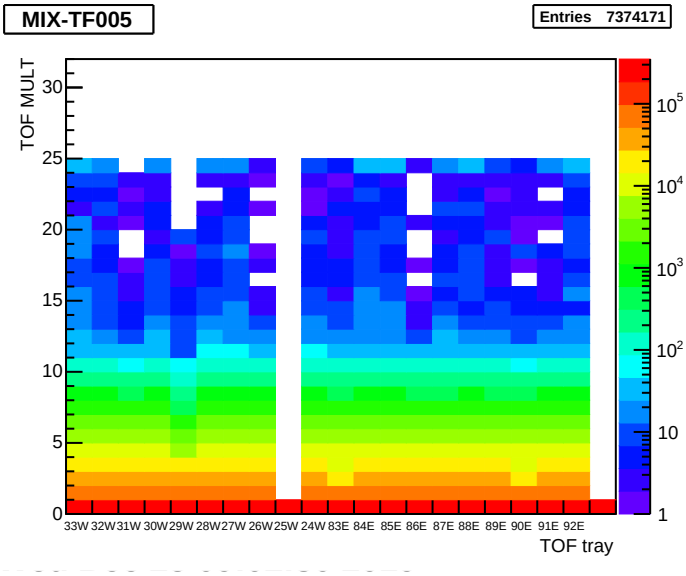

BunchId7Bit (TOFmult window)
Entries 11821
10^2
10
0
20
40
60
80
100
120

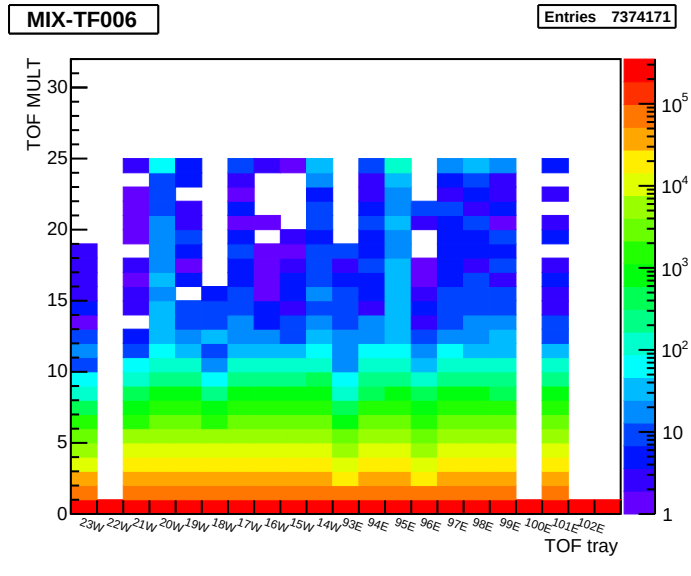

MIX-TF001
Entries 7374171
TOF MULT
TOF tray

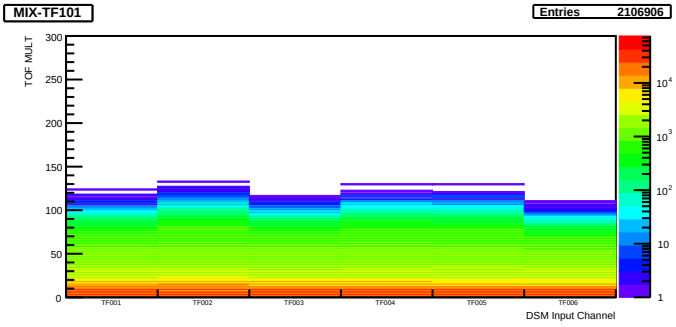

MIX-TF002
Entries 7374171
TOF MULT
TOF tray

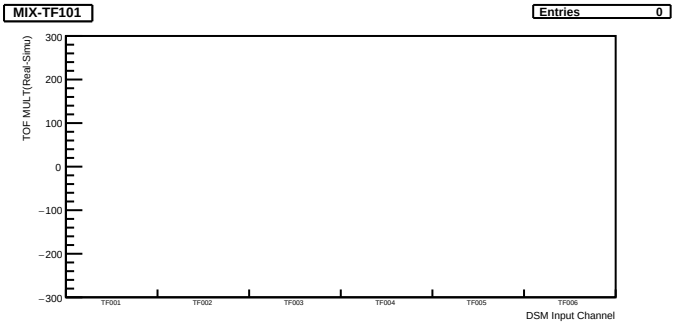

MIX-TF003
Entries 7374171
TOF MULT
TOF tray

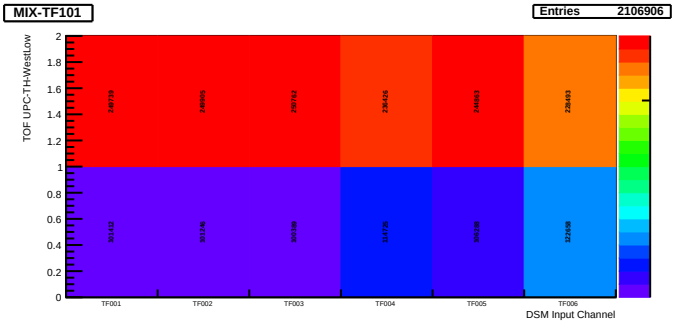

MIX-TF004
Entries 7374171
TOF MULT
TOF tray

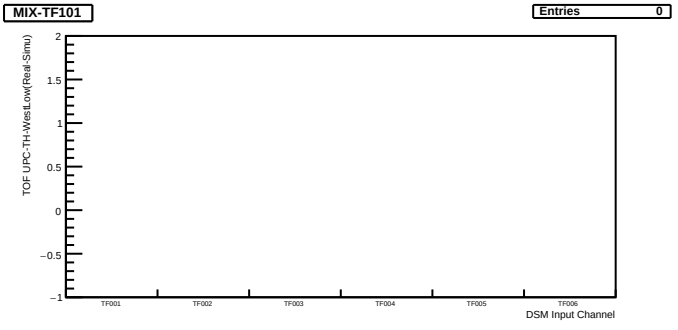

MIX-TF005
Entries 7374171
TOF MULT
TOF tray

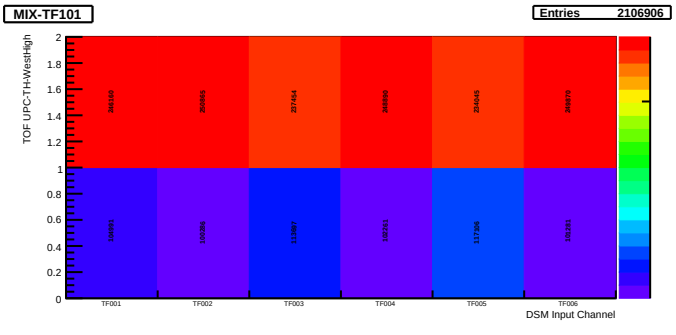

MIX-TF006
Entries 7374171
TOF MULT
TOF tray

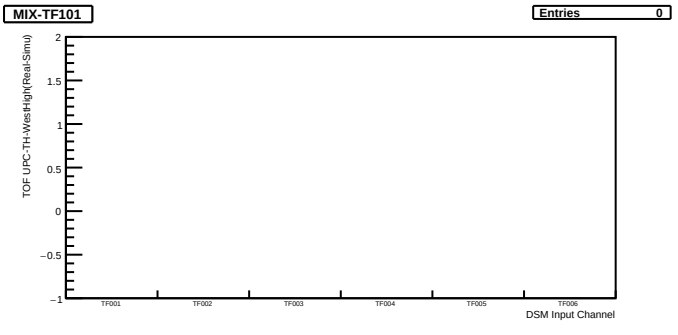

MIX-TF101
Entries 2106906
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

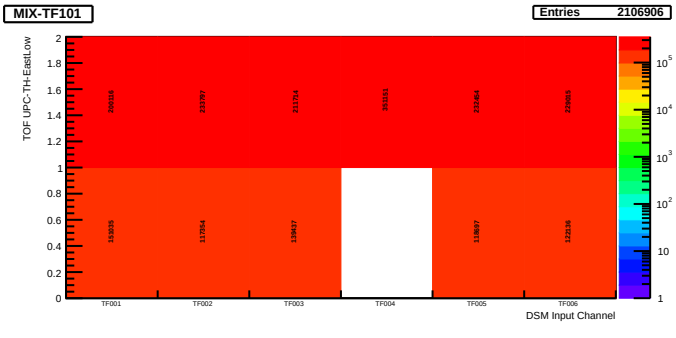

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

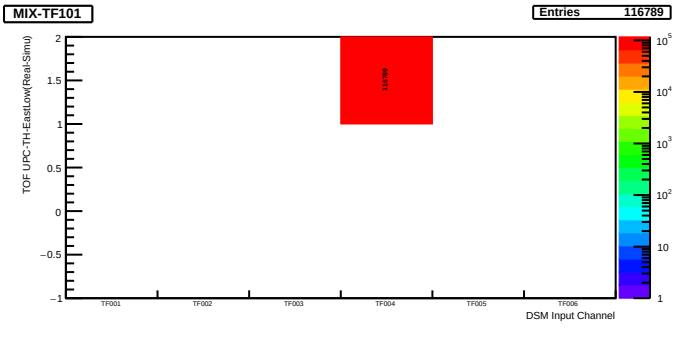

MIX-TF101
Entries 2106906
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

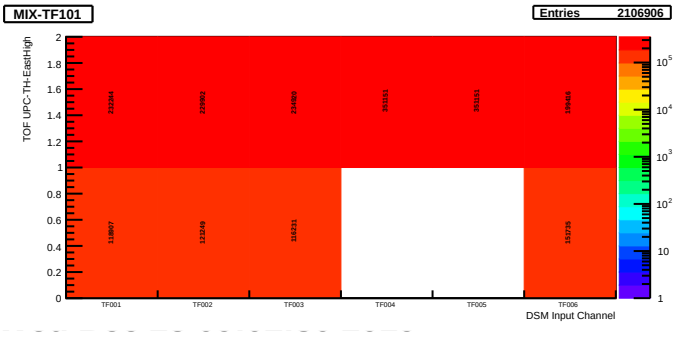

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

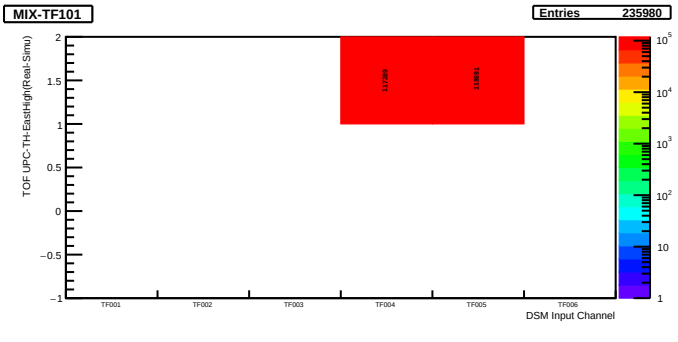

MIX-TF101
Entries 2106906
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

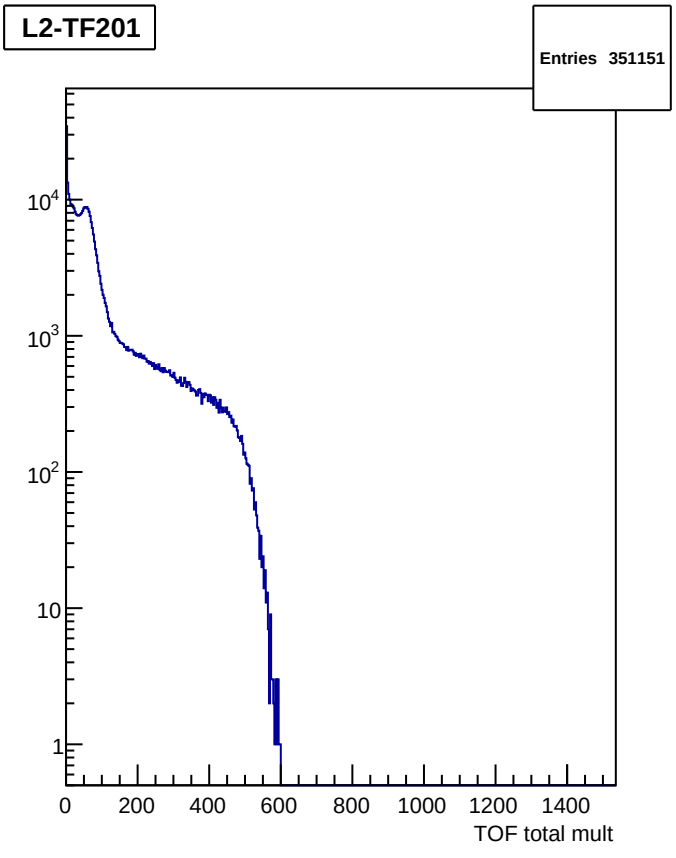

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

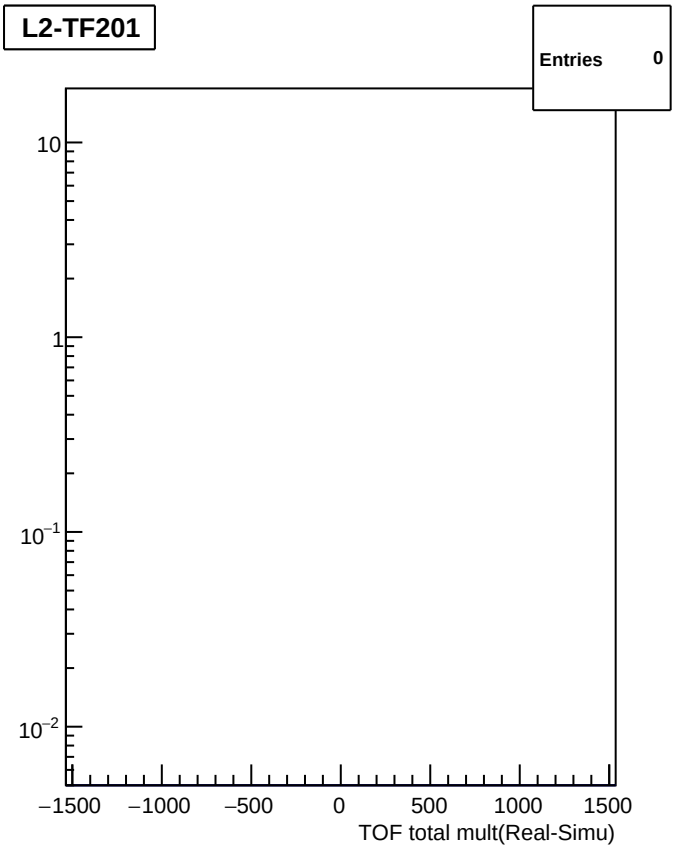

MIX-TF101
Entries 2106906
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

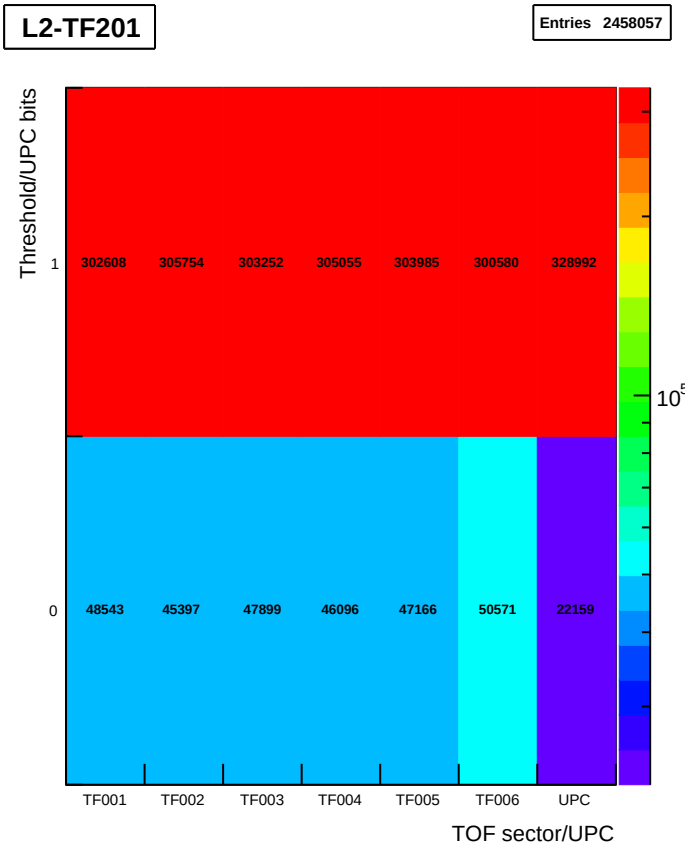

MIX-TF101
Entries 116789
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

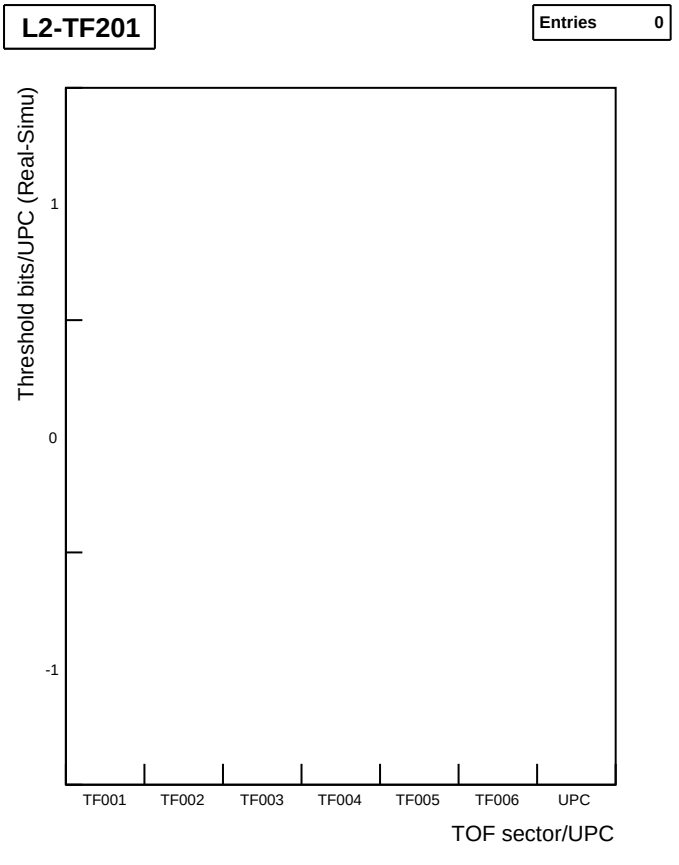

MIX-TF101
Entries 2106906
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

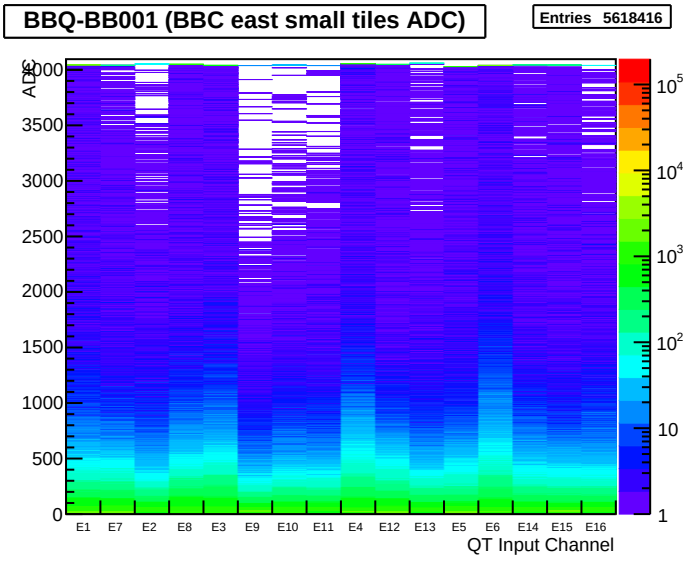

MIX-TF101
Entries 235980
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

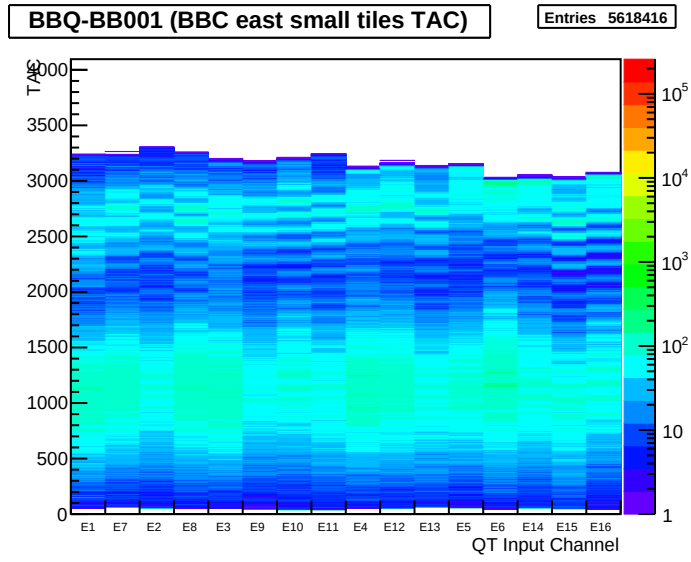

L2-TF201
Entries 351151
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

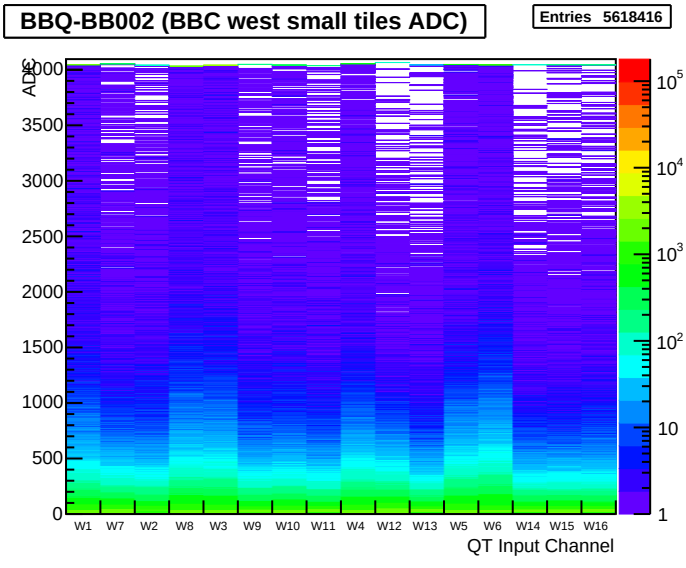

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

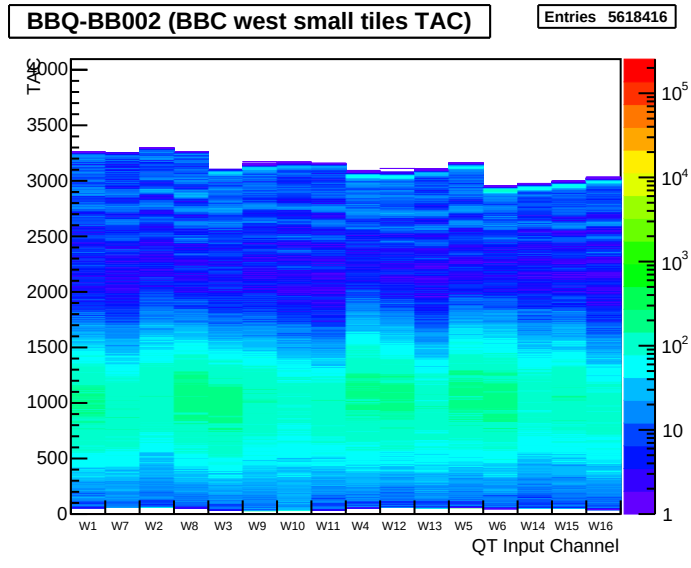

L2-TF201
Entries 2458057
Threshold/UPC bits
1
0
302608
305754
303252
305055
303985
300580
328992
48543
45397
47899
46096
47166
50571
22159
10^5
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

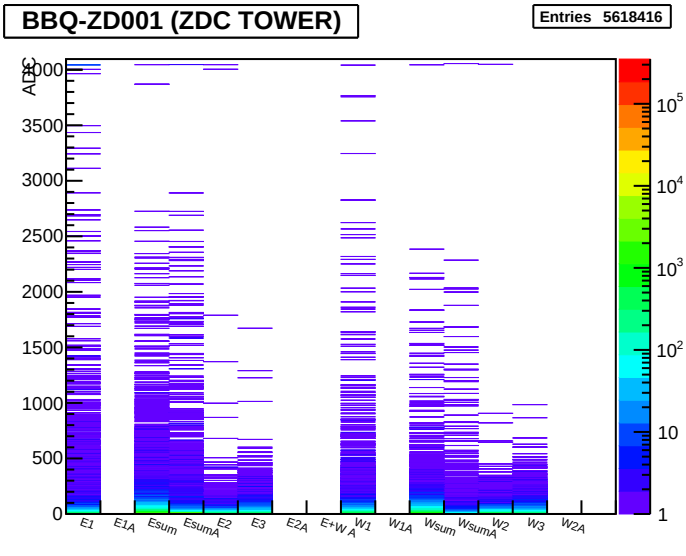

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

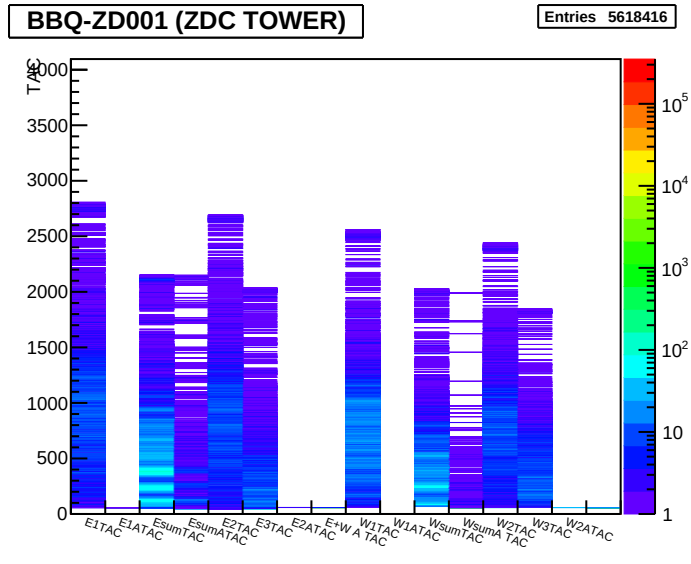

BBQ-BB001 (BBC east small tiles ADC)
Entries 5618416
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

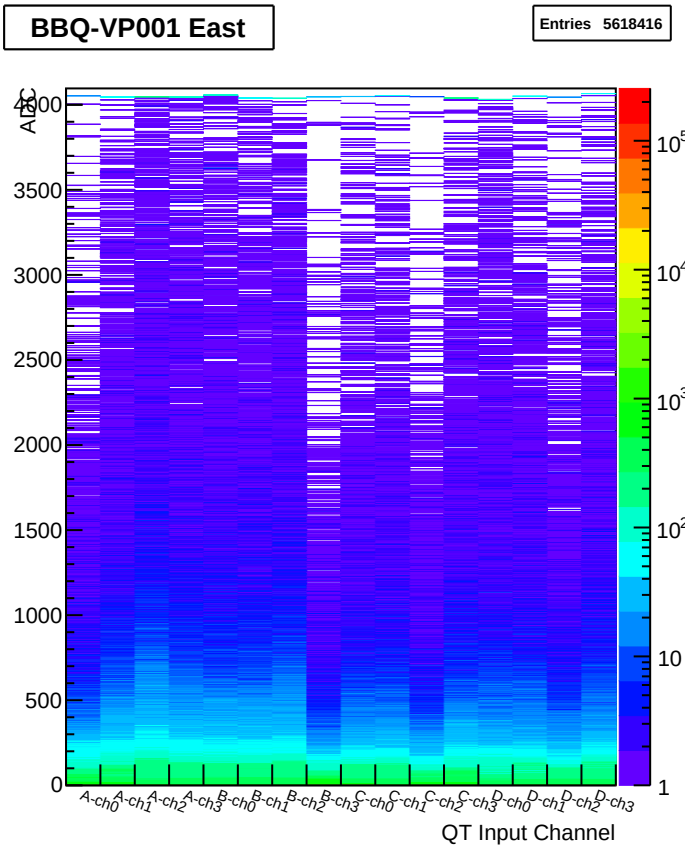

BBQ-BB001 (BBC east small tiles TAC)
Entries 5618416
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

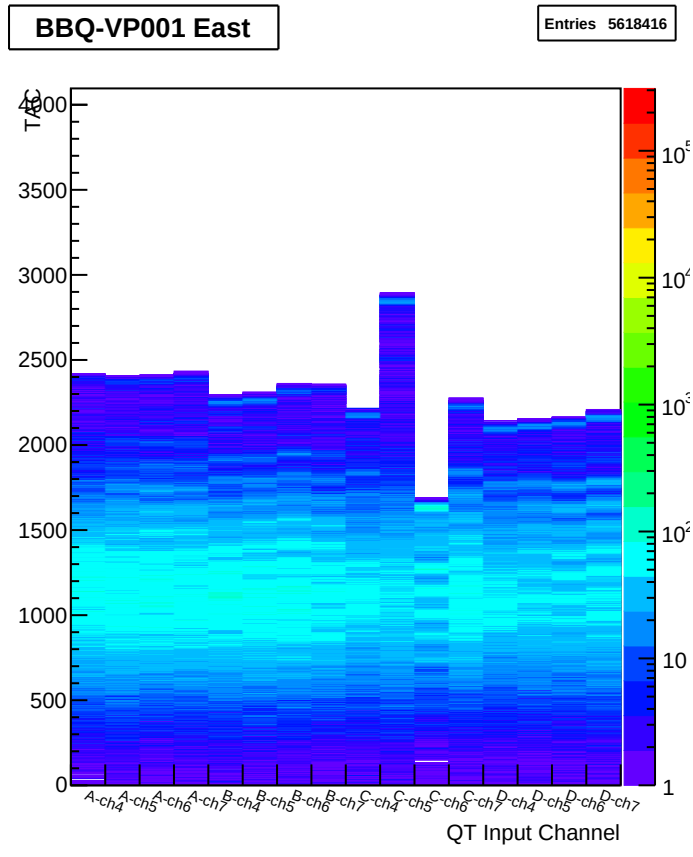

BBQ-BB002 (BBC west small tiles ADC)
Entries 5618416
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

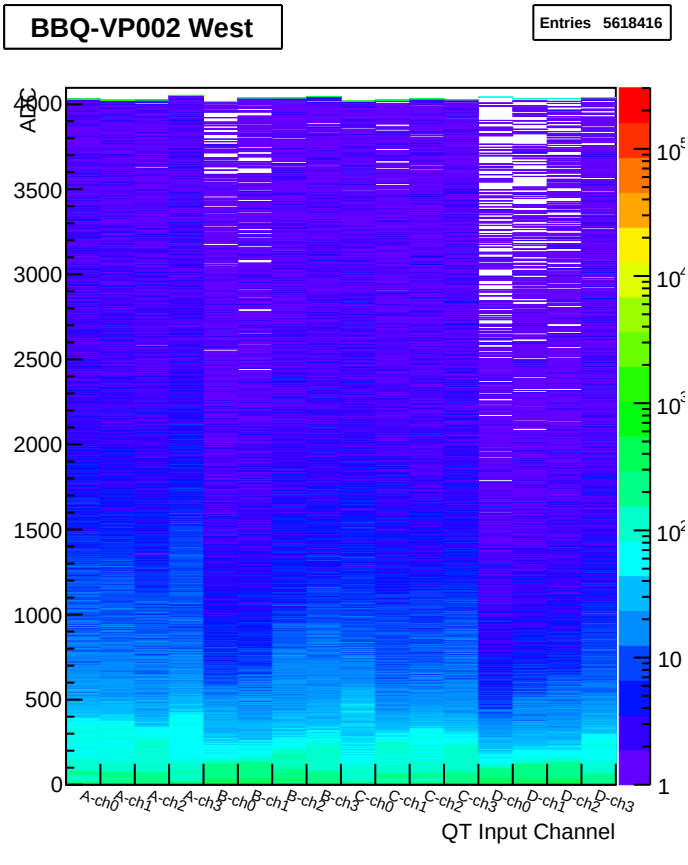

BBQ-BB002 (BBC west small tiles TAC)
Entries 5618416
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

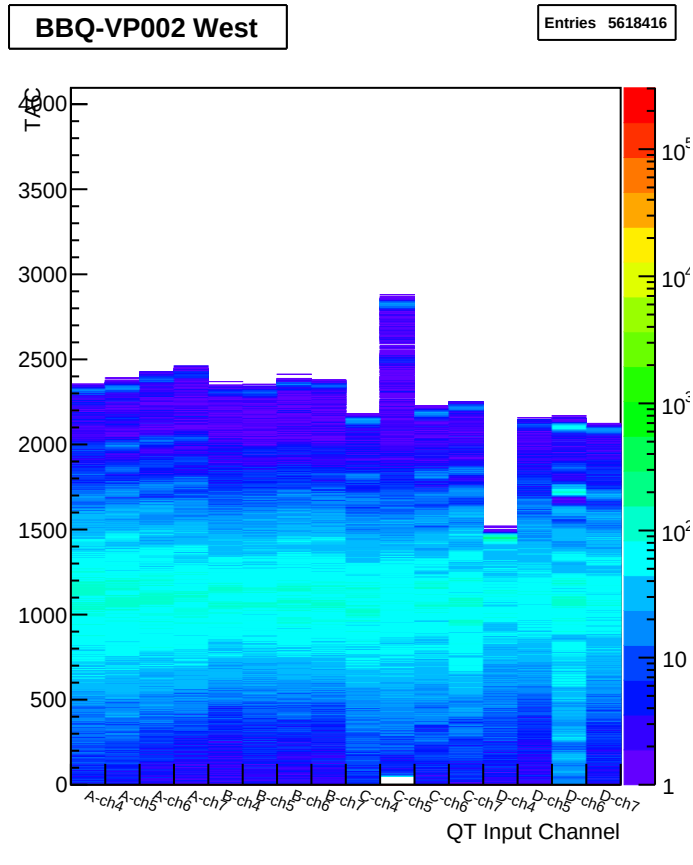

BBQ-ZD001 (ZDC TOWER)
Entries 5618416
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

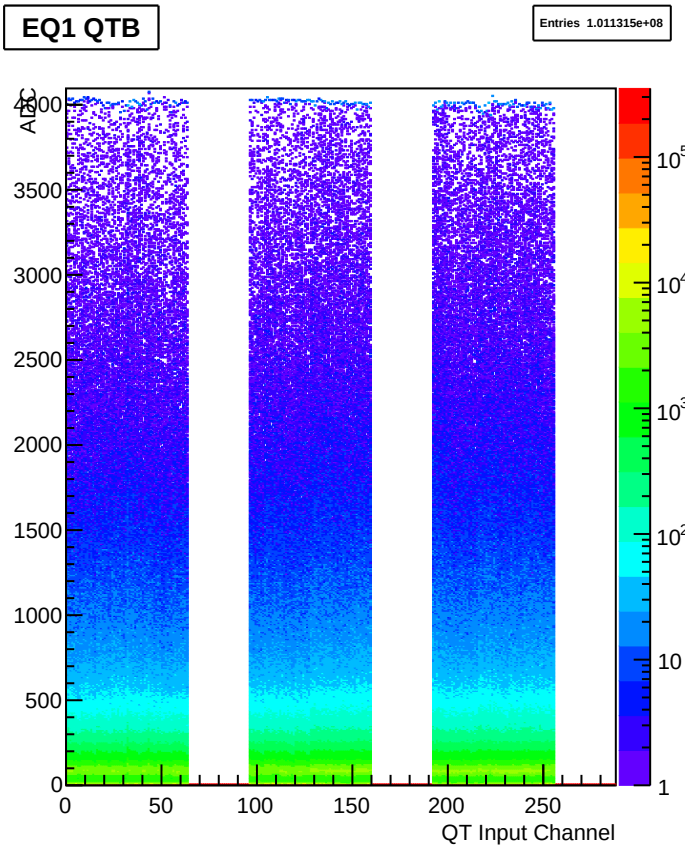

BBQ-ZD001 (ZDC TOWER)
Entries 5618416
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

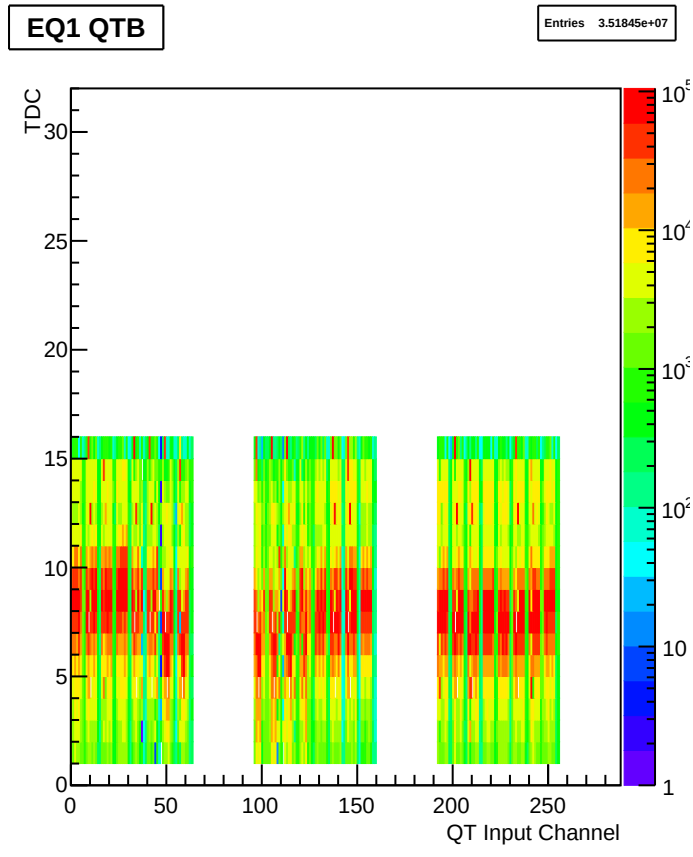

BBQ-VP001 East
Entries 5618416
ADC
QT Input Channel

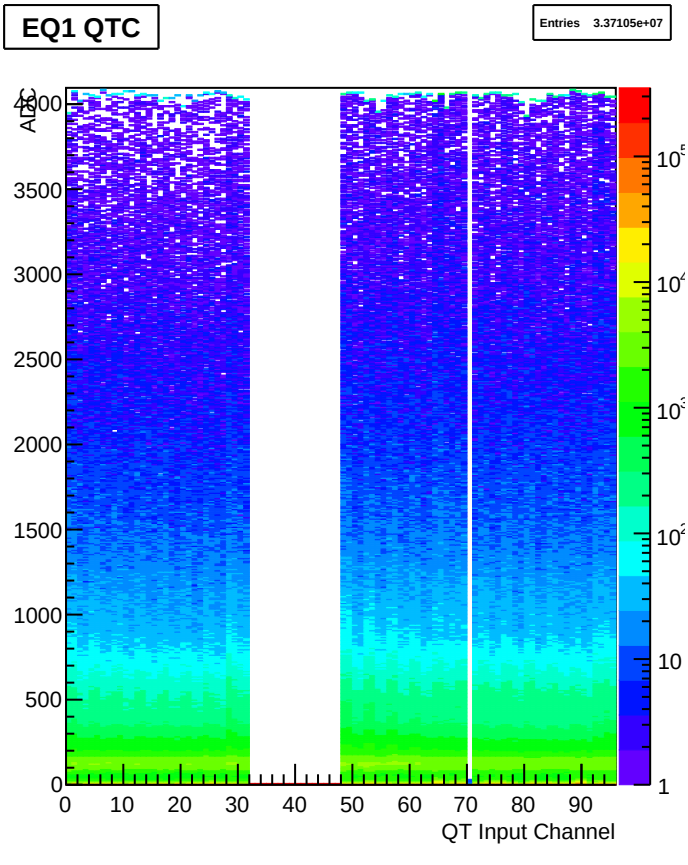

BBQ-VP001 East
Entries 5618416
TADC
QT Input Channel

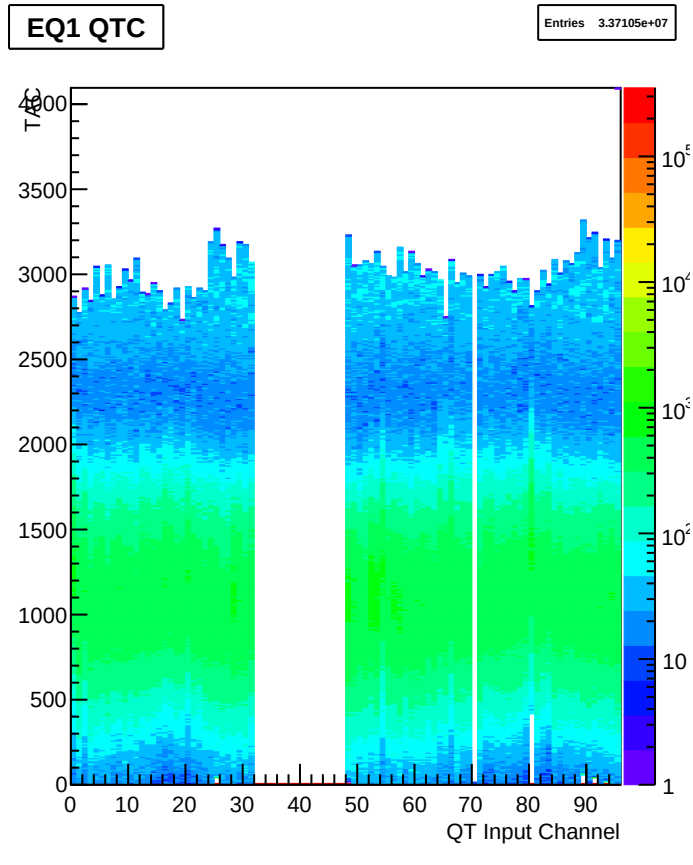

BBQ-VP002 West
Entries 5618416
ADC
QT Input Channel

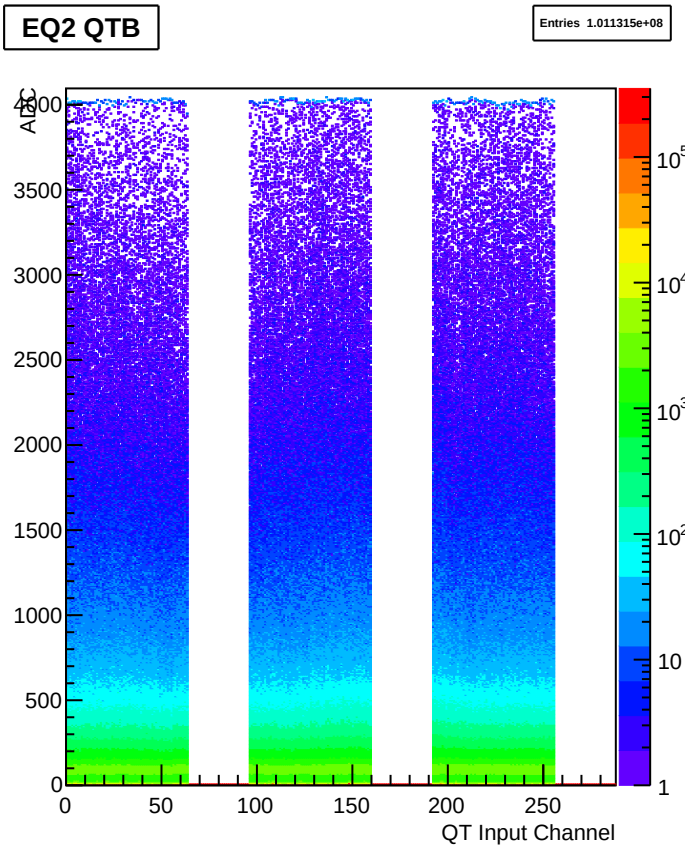

BBQ-VP002 West
Entries 5618416
TADC
QT Input Channel

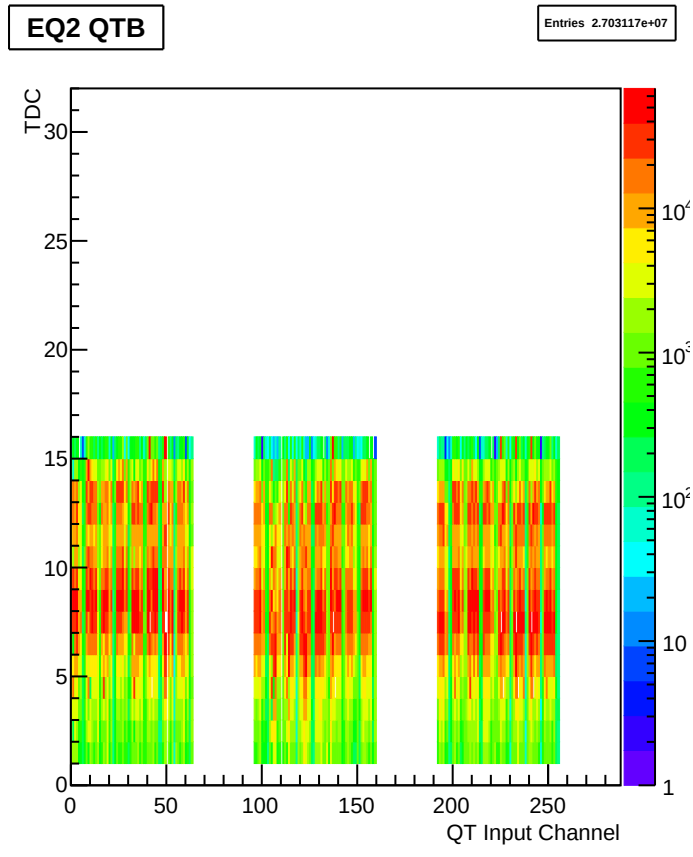

EQ1 QTB
Entries 1.011315e+08
ADC
QT Input Channel

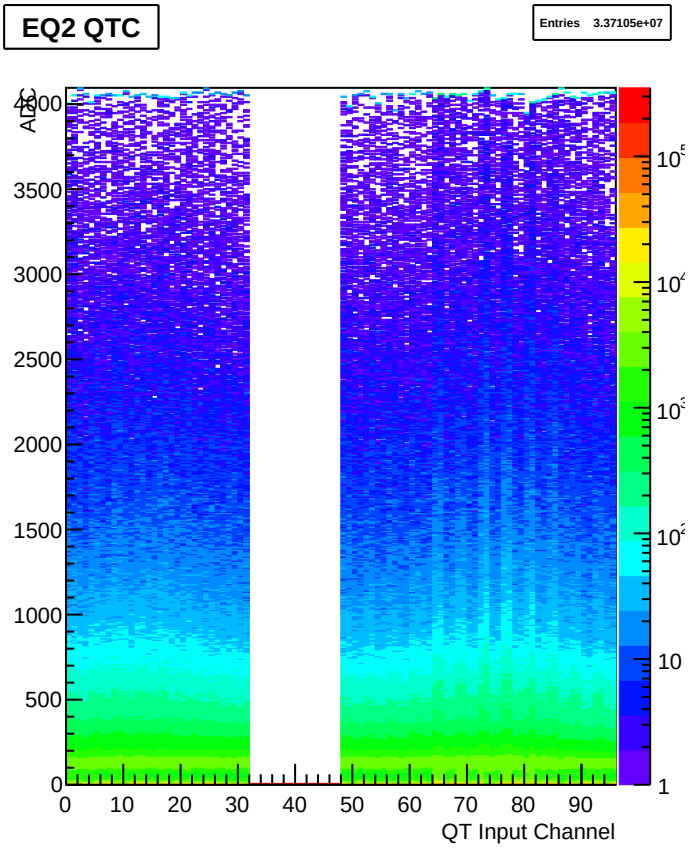

EQ1 QTB
Entries 3.51845e+07
TDC
QT Input Channel

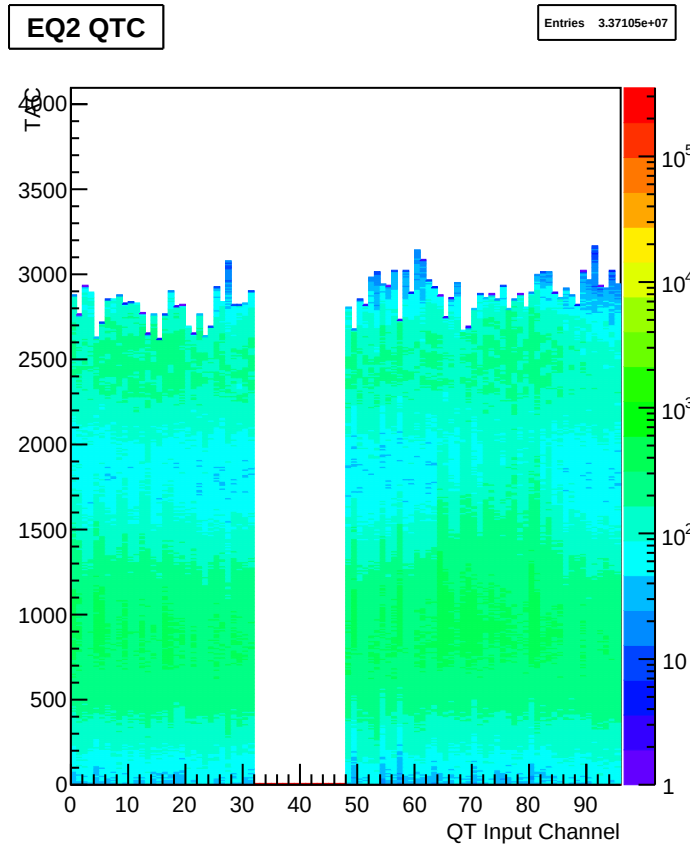

EQ1 QTC
Entries 3.37105e+07
ADC
QT Input Channel

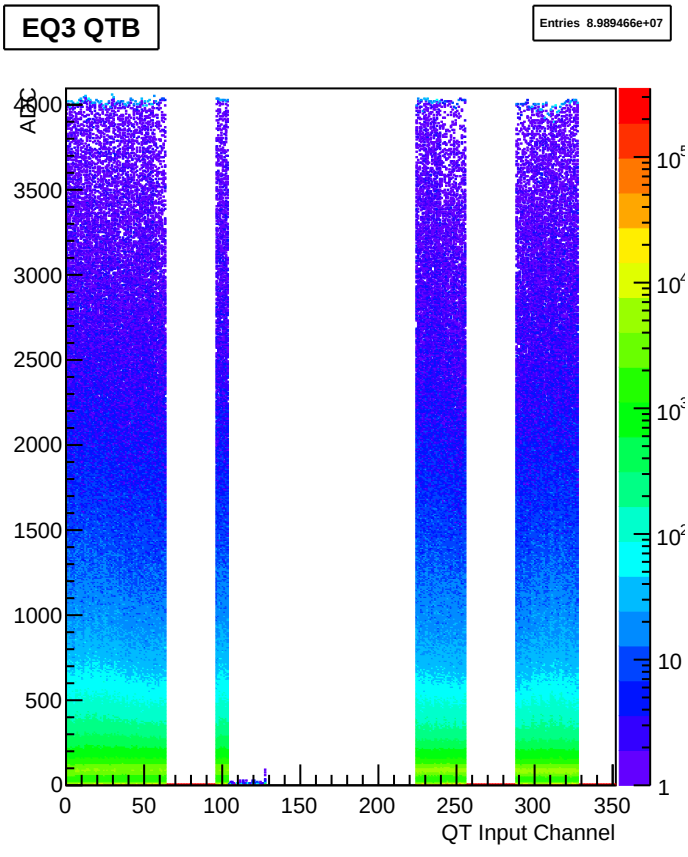

EQ1 QTC
Entries 3.37105e+07
TADC
QT Input Channel

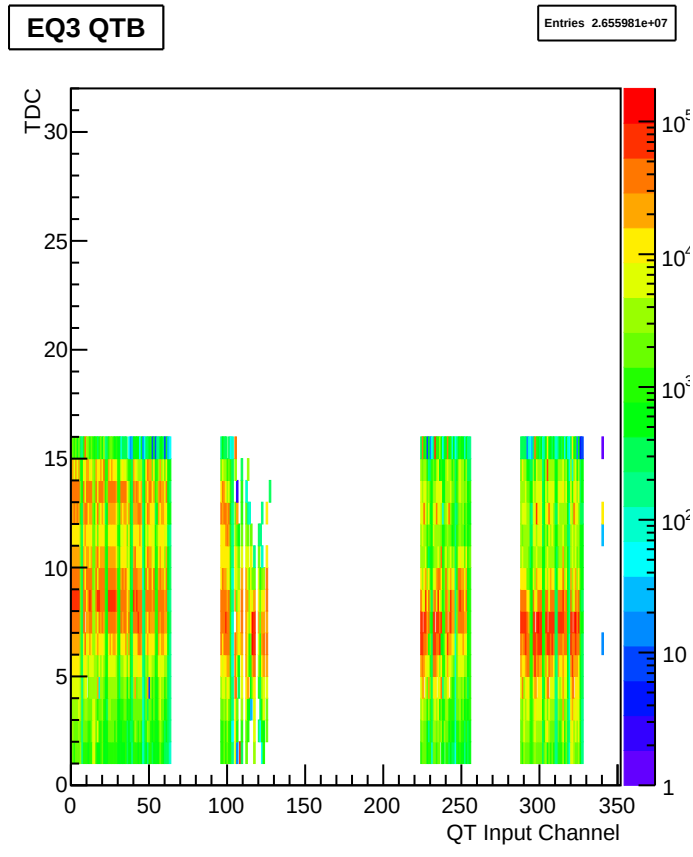

EQ2 QTB
Entries 1.011315e+08
ADC
QT Input Channel

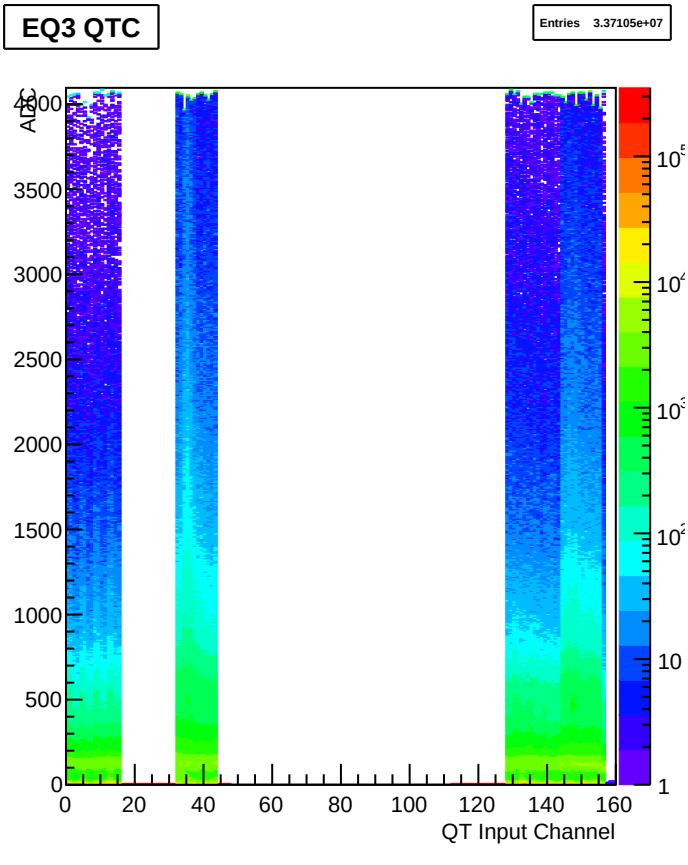

EQ2 QTB
Entries 2.703117e+07
TDC
QT Input Channel

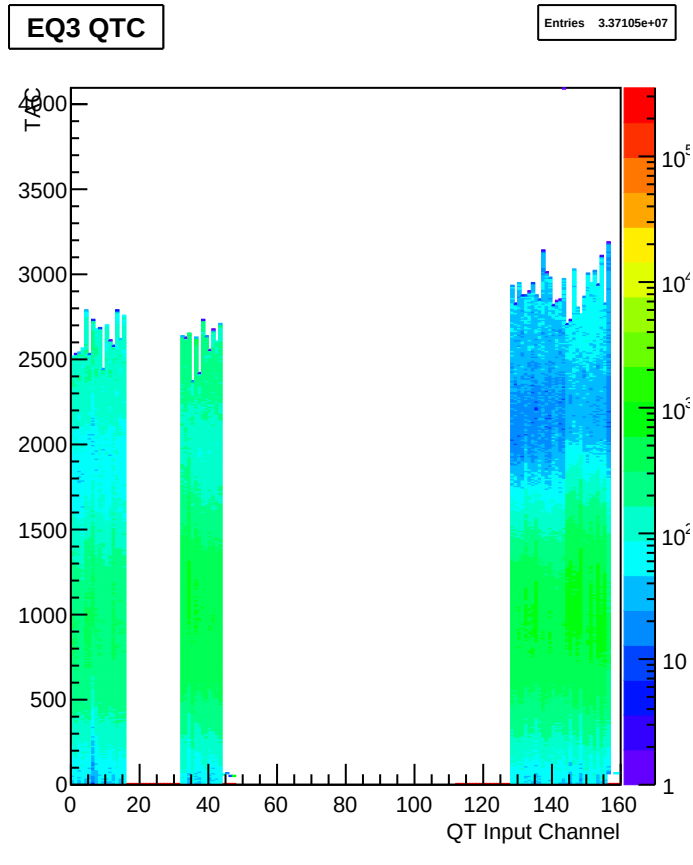

EQ2 QTC
Entries 3.37105e+07
ADC
QT Input Channel

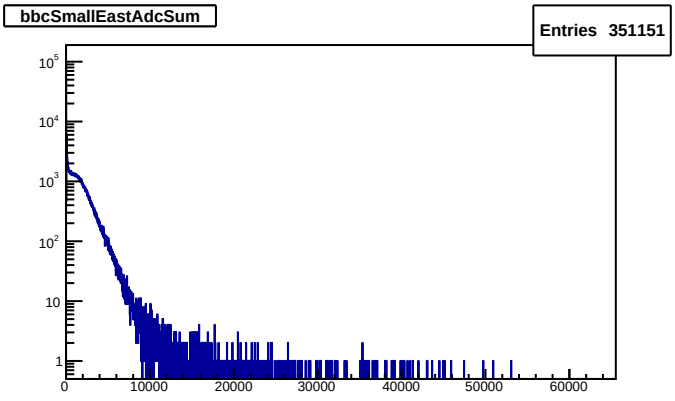

EQ2 QTC
Entries 3.37105e+07
TADC
QT Input Channel

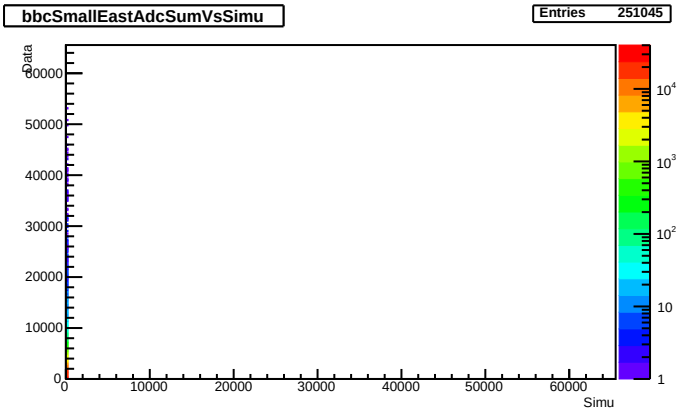

EQ3 QTB
Entries 8.989466e+07
ADC
QT Input Channel

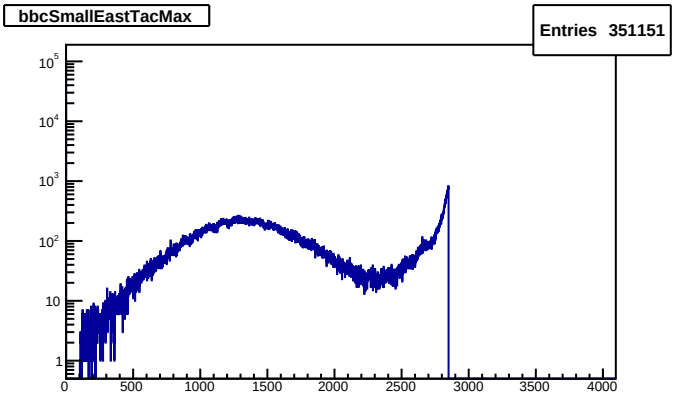

EQ3 QTB
Entries 2.655981e+07
TDC
QT Input Channel

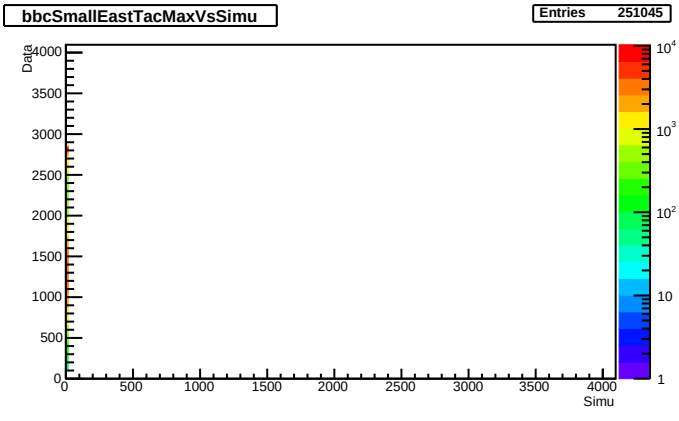

EQ3 QTC
Entries 3.37105e+07
ADC
QT Input Channel


EQ3 QTC
Entries 3.37105e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 351151


bbcSmallEastAdcSumVsSimu
Entries 251045
Data
Simu


bbcSmallEastTacMax
Entries 351151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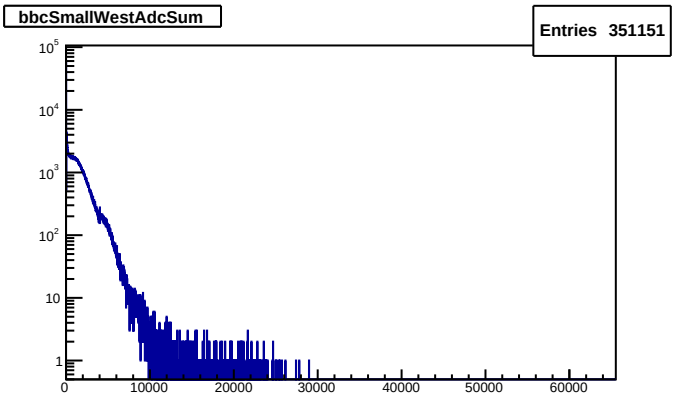
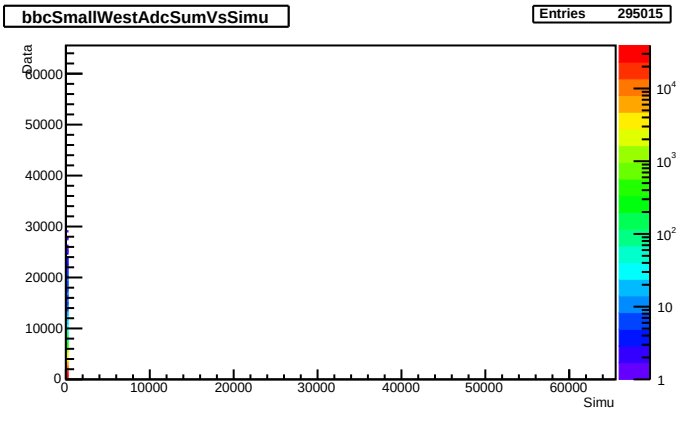
Entries 251045
Data
Simu


bbcSmallWestAdcSum
Entries 351151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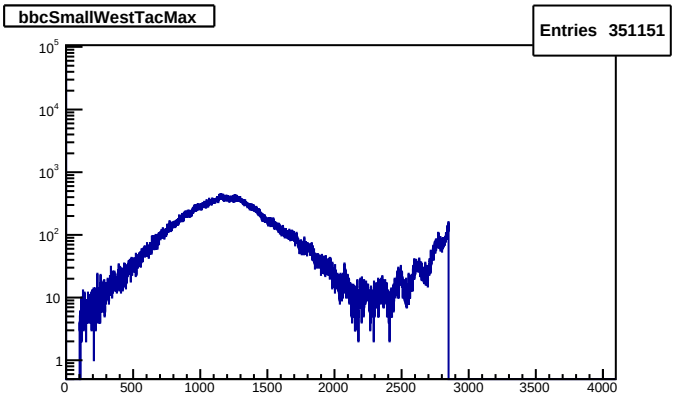
Entries 295015
Data
Simu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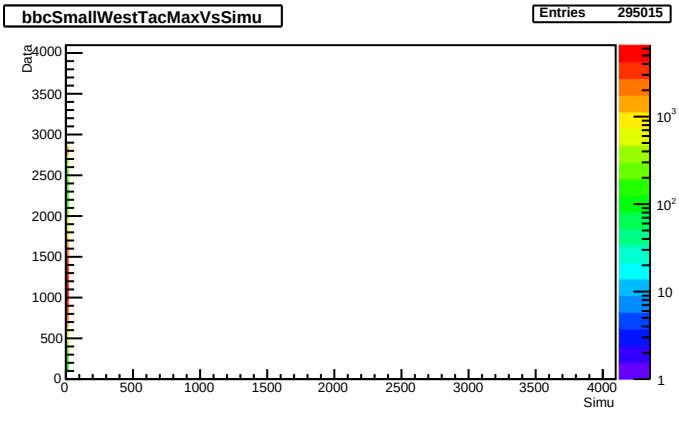
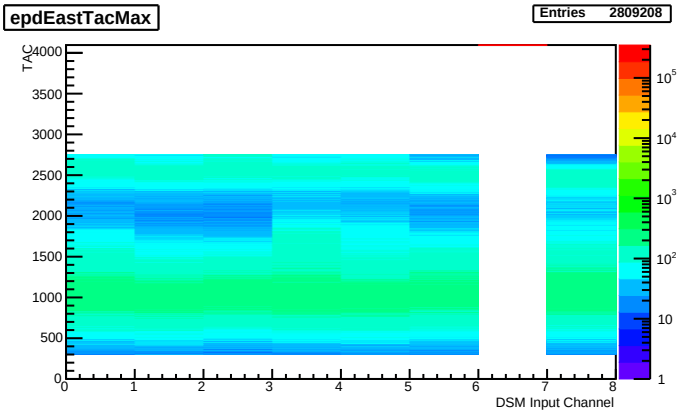
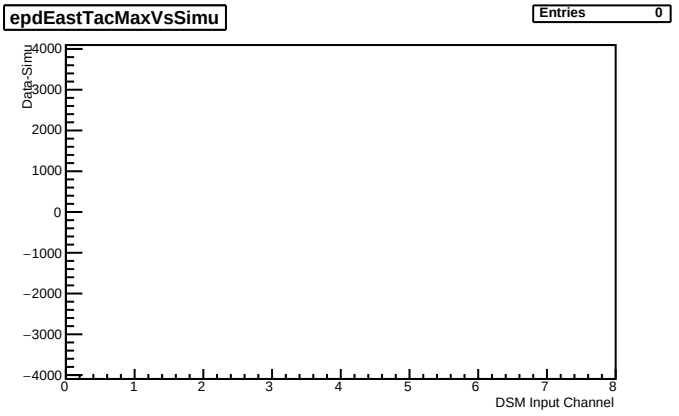
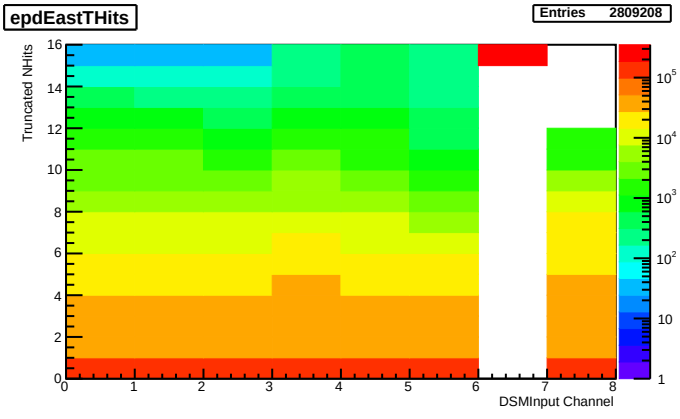
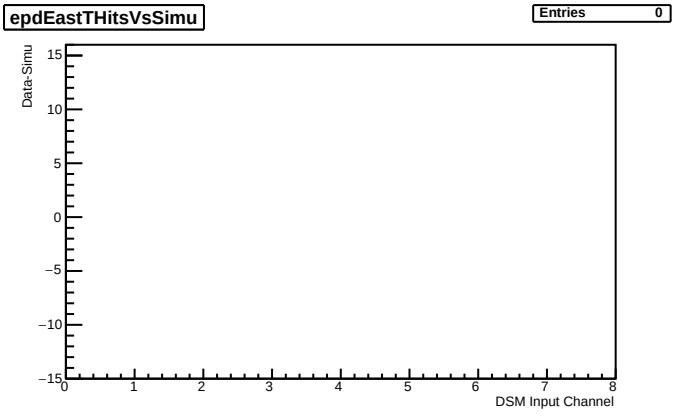
Entries 351151


bbcSmallWestTacMaxVsSimu
Entries 295015
Data
Simu


epdEastTacMax
Entries 2809208
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 2809208
Truncated NHits
DSMInput Channel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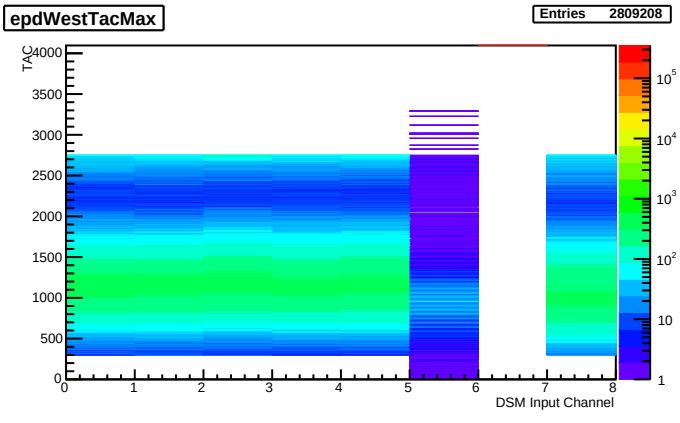
Data-Simu
DSM Input Channel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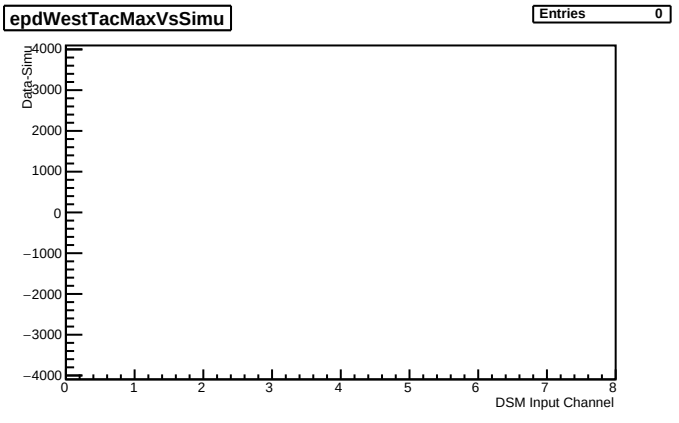
Entries 2809208
TAC
DSM Input Channel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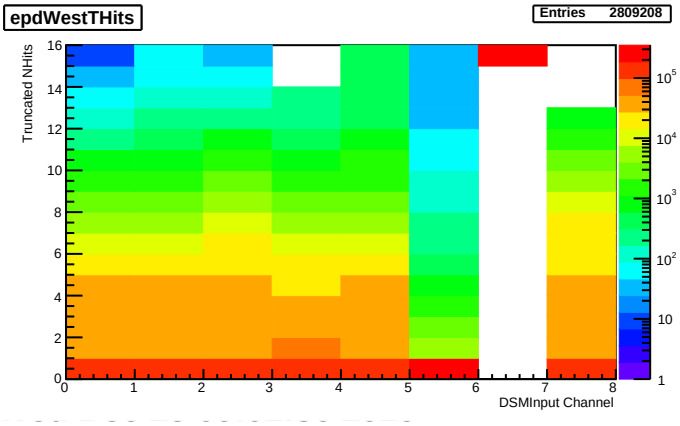
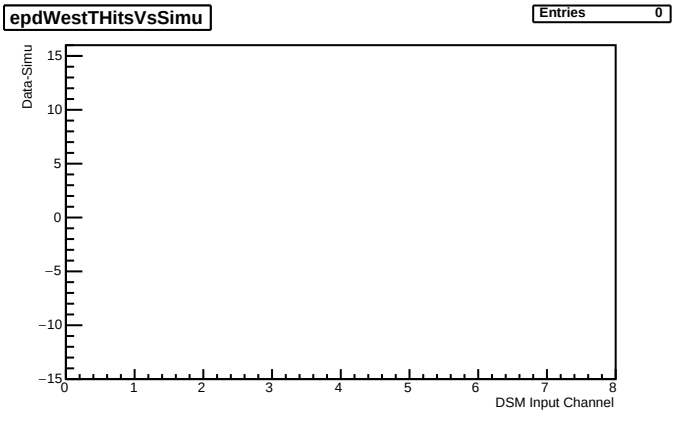
Data-Simu
DSM Input Channel


epdWestTHits
Entries 2809208
Truncated NHits
DSMInput Channel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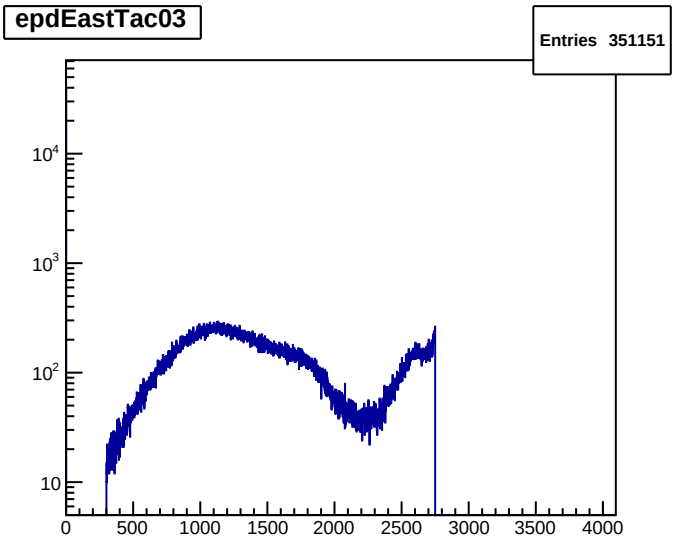
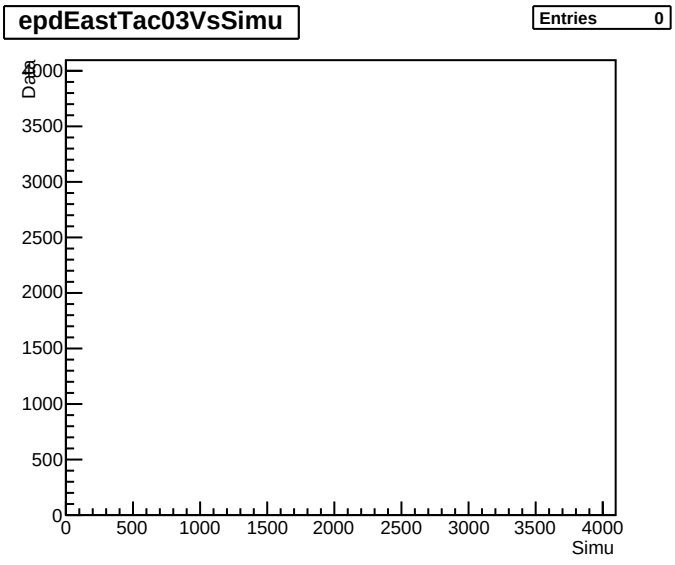
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 351151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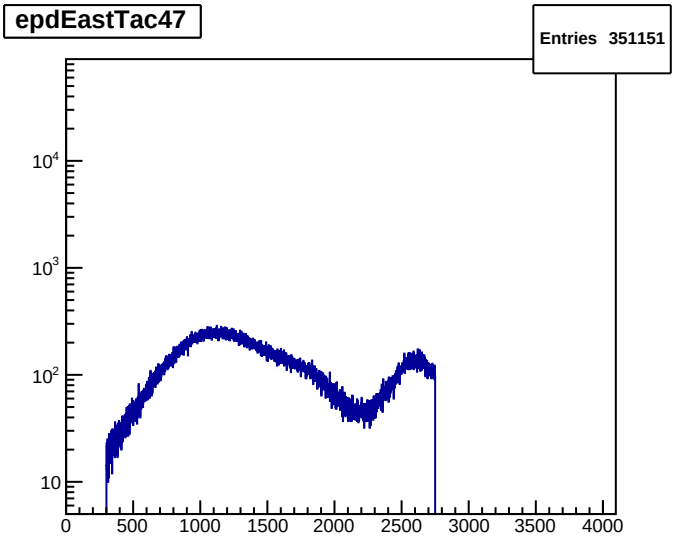
Entries 0
Data
Simu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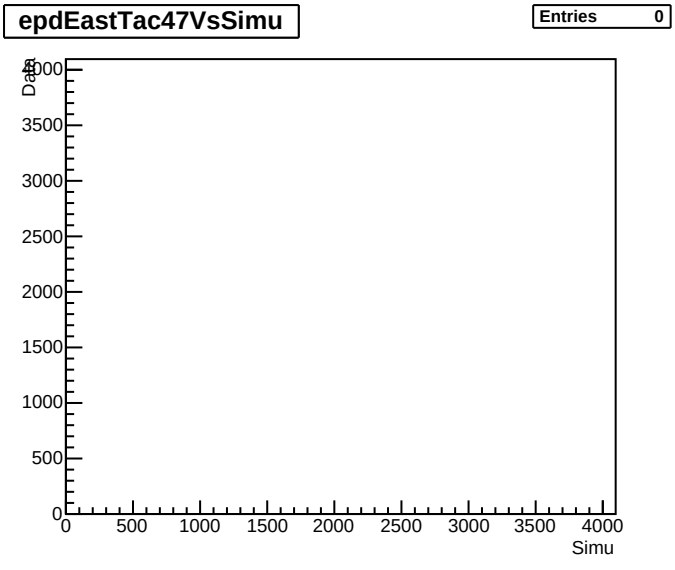
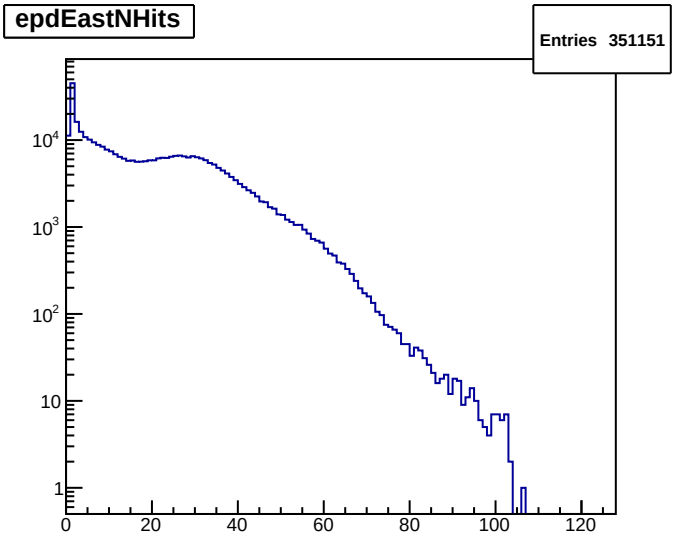
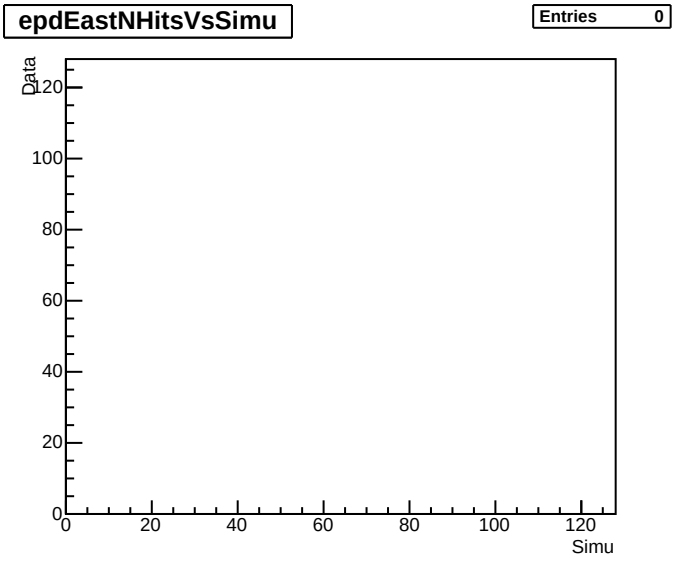
Entries 351151


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 351151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Data
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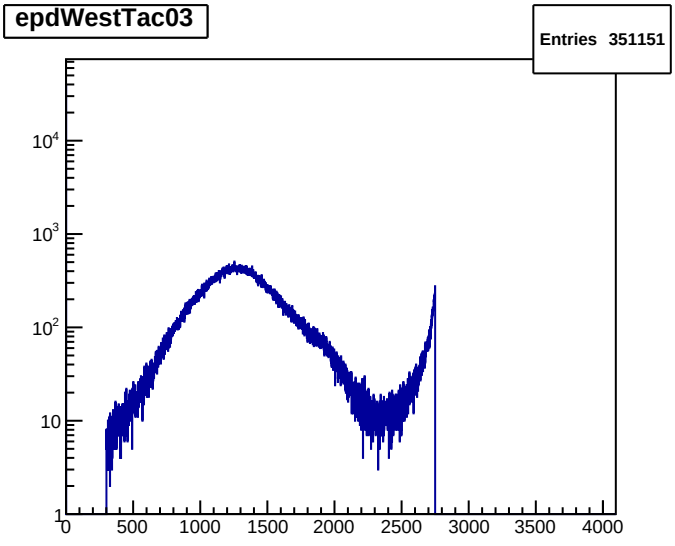
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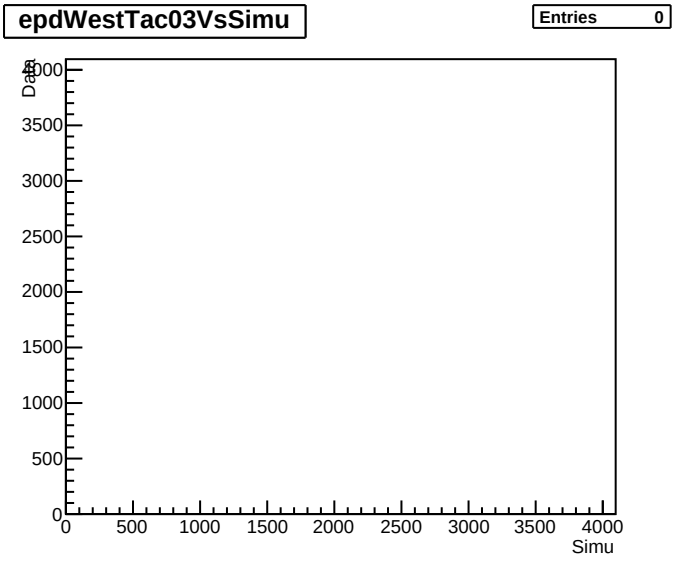
Entries 351151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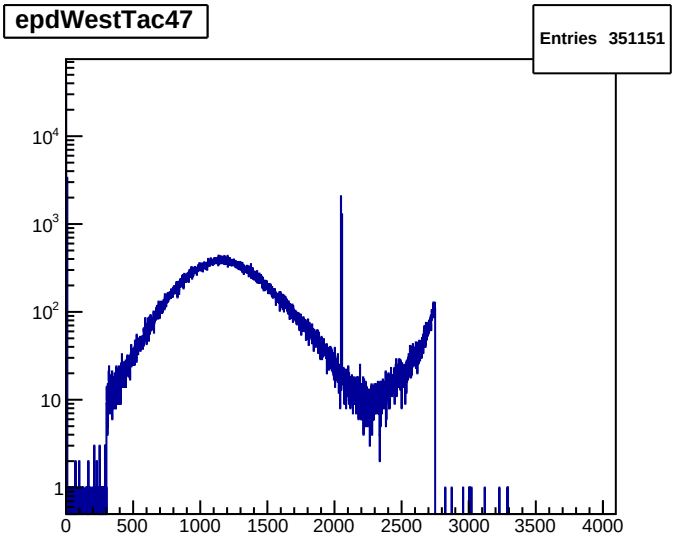
Entries 0
Data
Simu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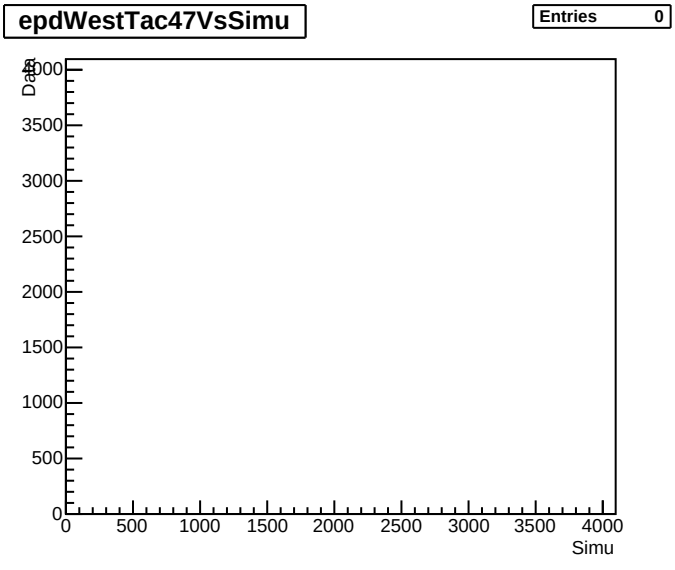
Entries 351151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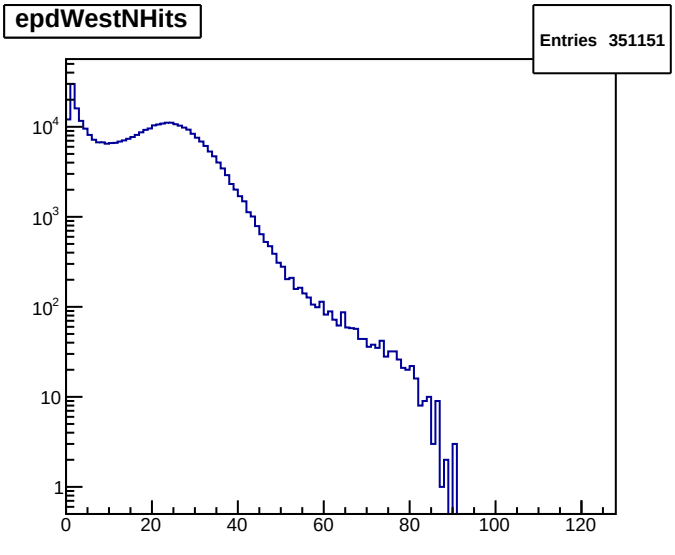
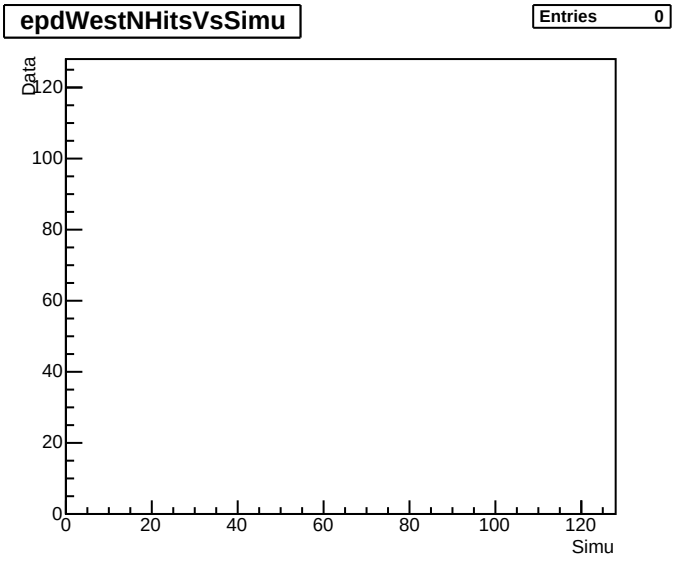
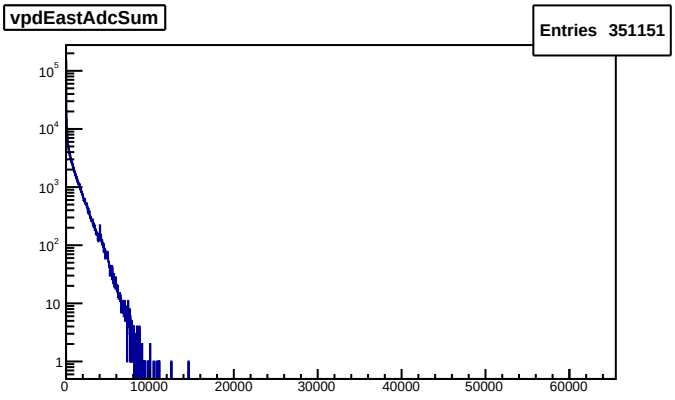
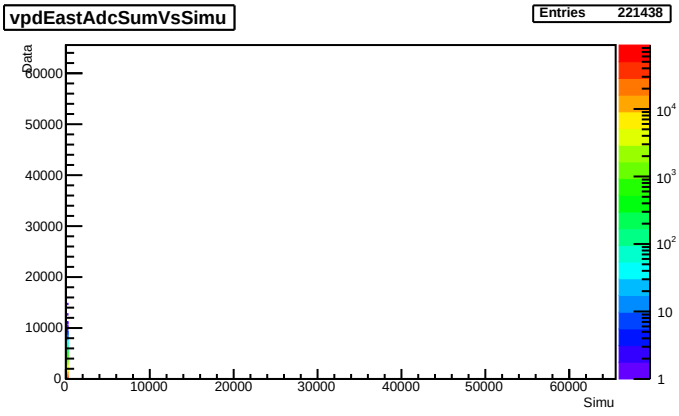
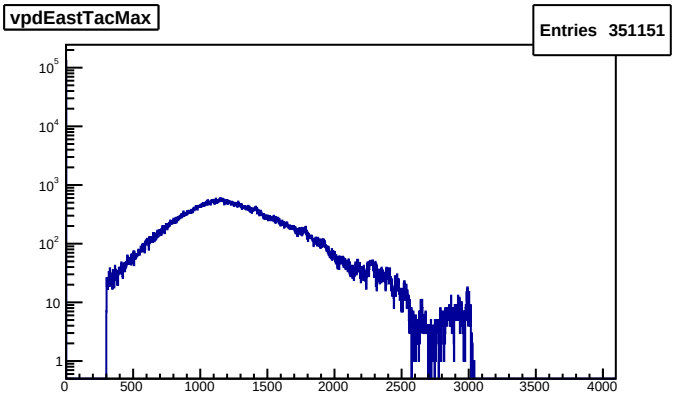
Entries 0
Data
Simu

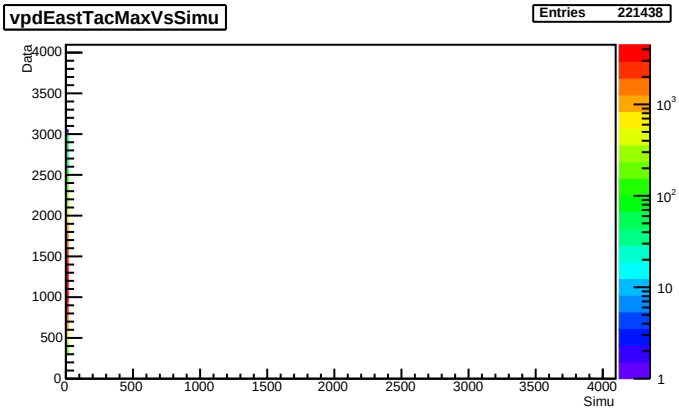

epdWestNHits
Entries 351151

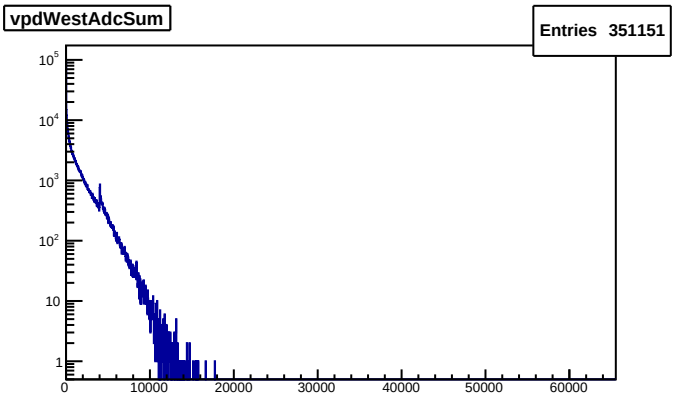

epdWestNHitsVsSimu
Entries 0
Data
Simu

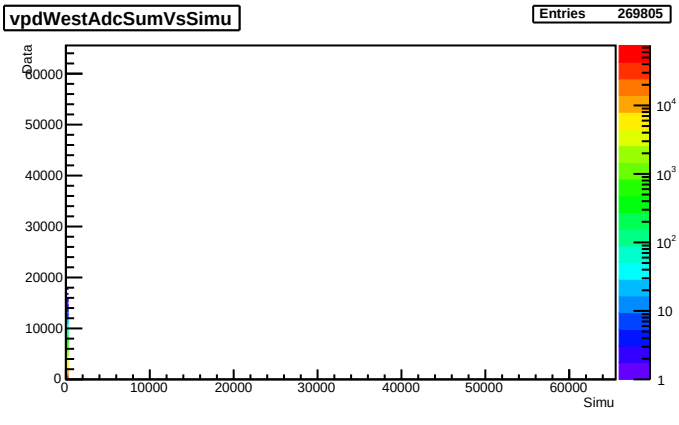

vpdEastAdcSum
Entries 351151

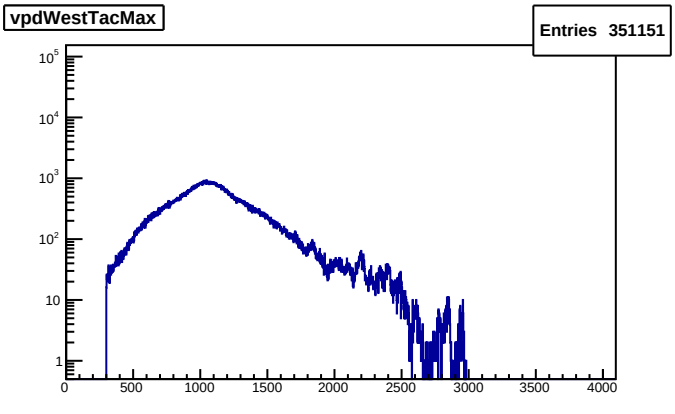

vpdEastAdcSumVsSimu
Entries 221438
Data
Simu

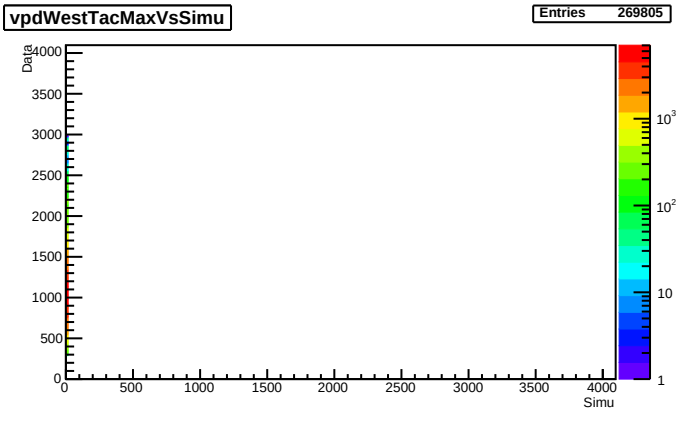

vpdEastTacMax
Entries 351151

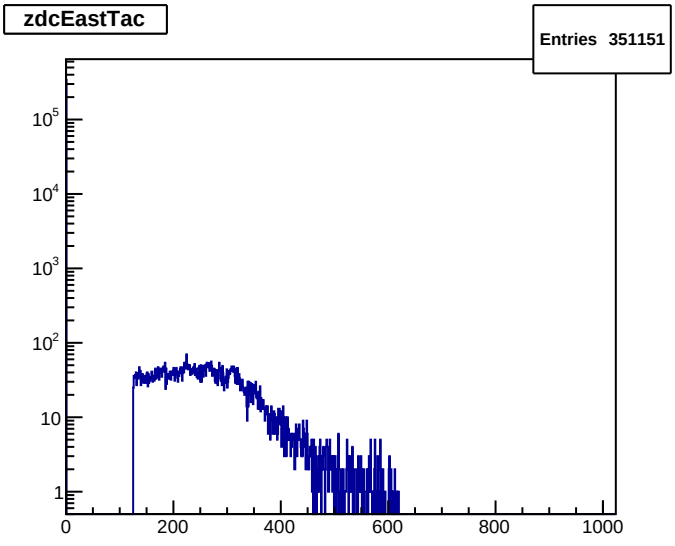

vpdEastTacMaxVsSimu
Entries 221438
Data
Simu

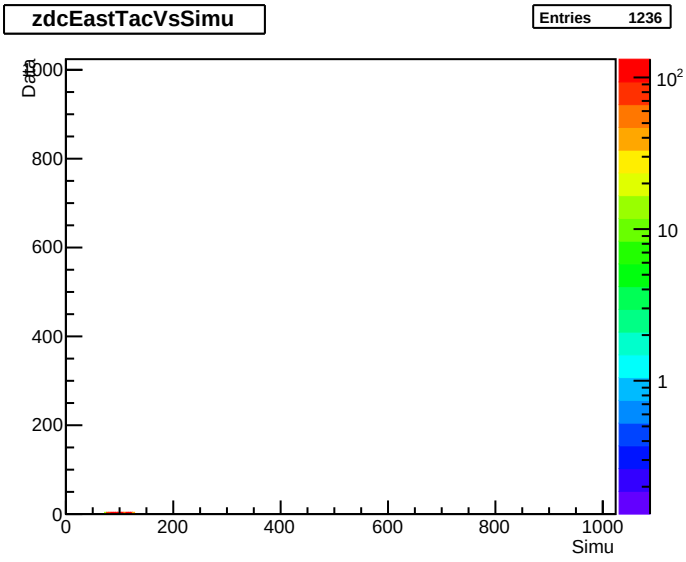

vpdWestAdcSum
Entries 351151

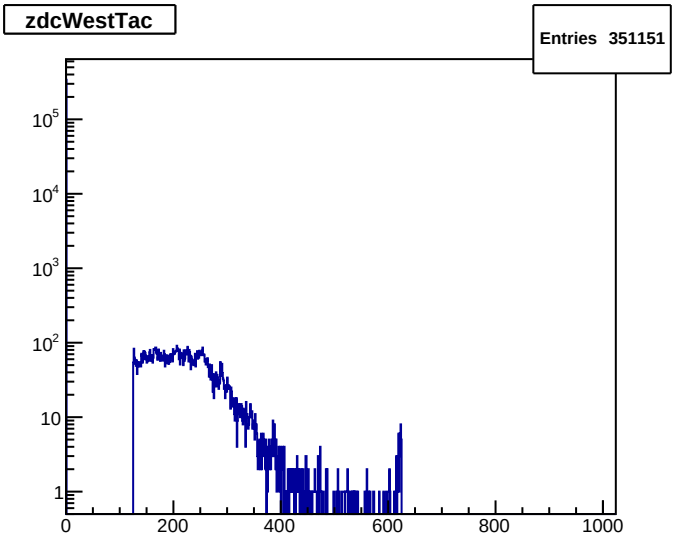

vpdWestAdcSumVsSimu
Entries 269805
Data
Simu

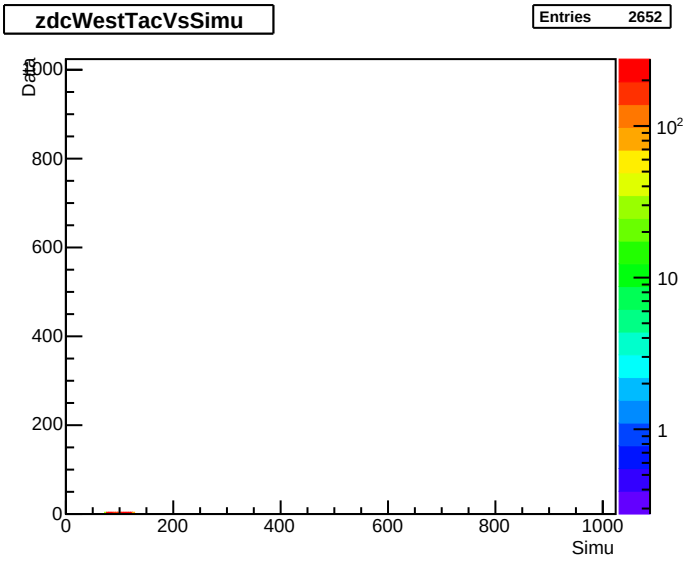

vpdWestTacMax
Entries 351151

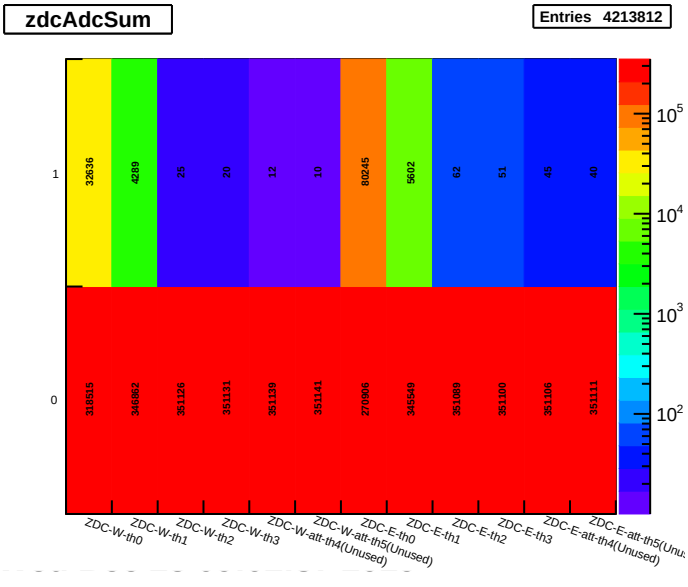

vpdWestTacMaxVsSimu
Entries 269805
Data
Simu

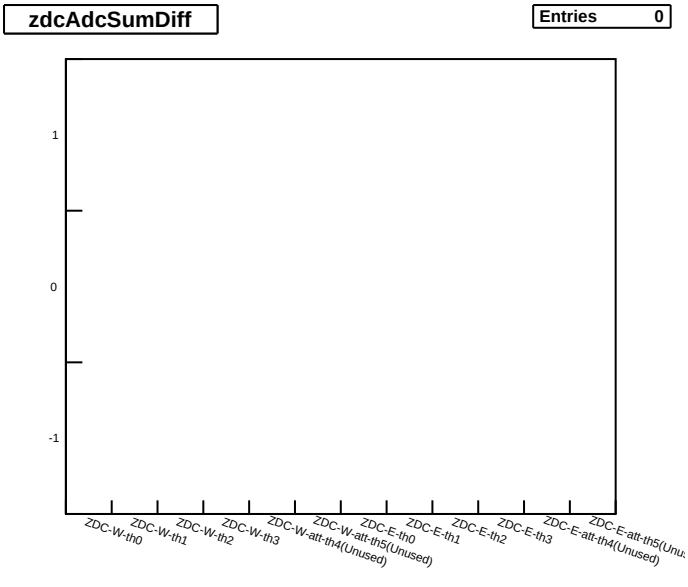

zdcEastTac
Entries 351151

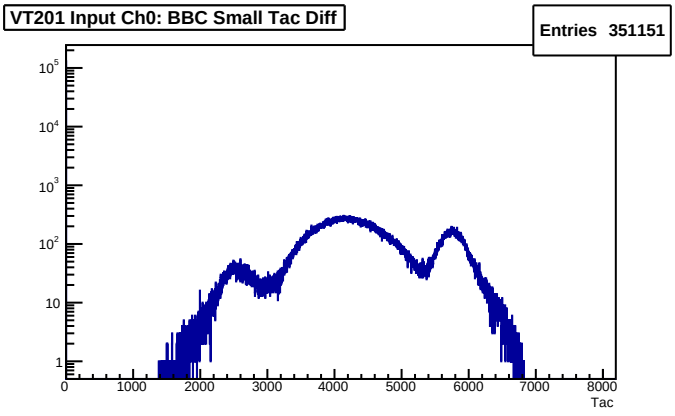

zdcEastTacVsSimu
Entries 1236
Data
Simu

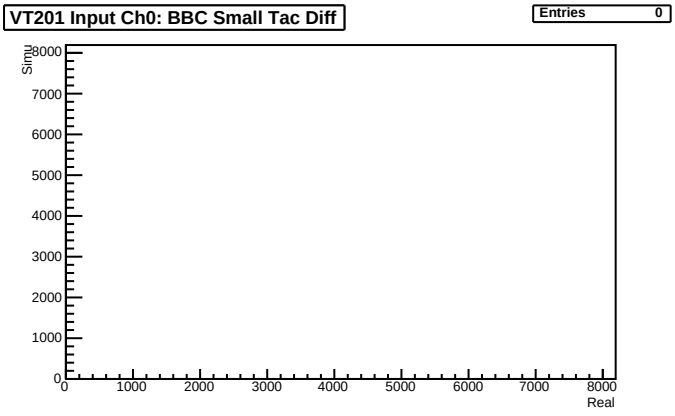

zdcWestTac
Entries 351151

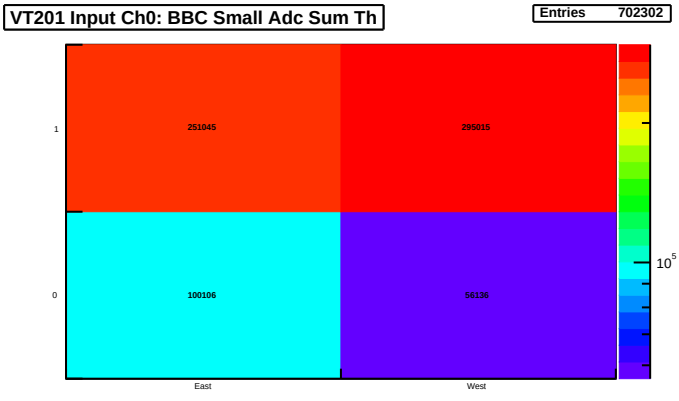

zdcWestTacVsSimu
Entries 2652
Data
Simu

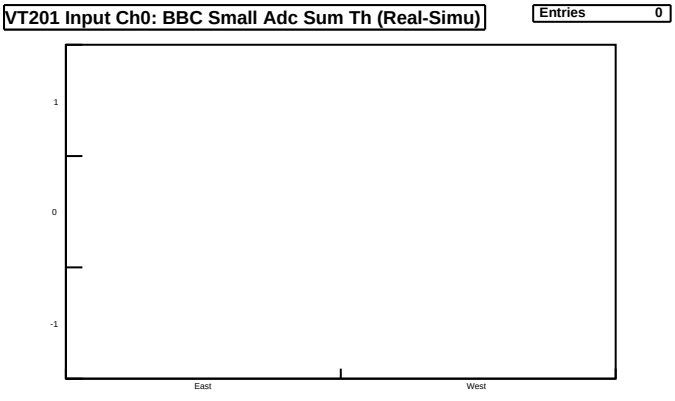

zdcAdcSum
Entries 4213812
32636
4289
25
20
12
10
80245
5602
62
51
45
40
318515
346862
351126
351131
351139
351141
270906
345549
351089
351100
351106
351111
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

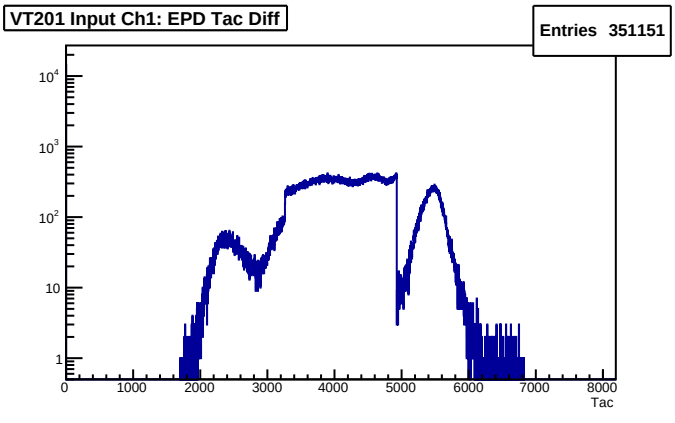

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

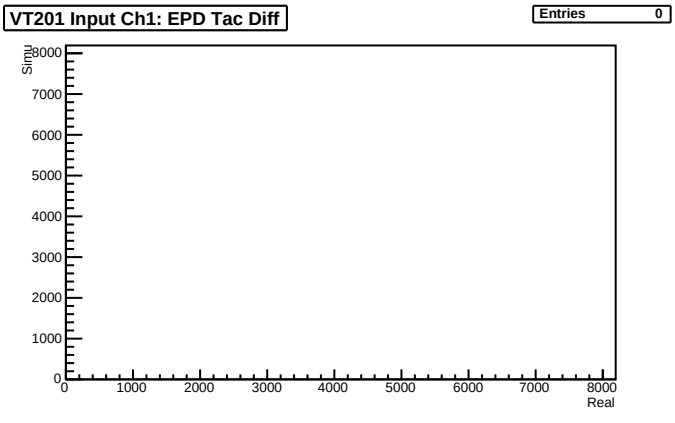

VT201 Input Ch0: BBC Small Tac Diff
Entries 351151
Tac

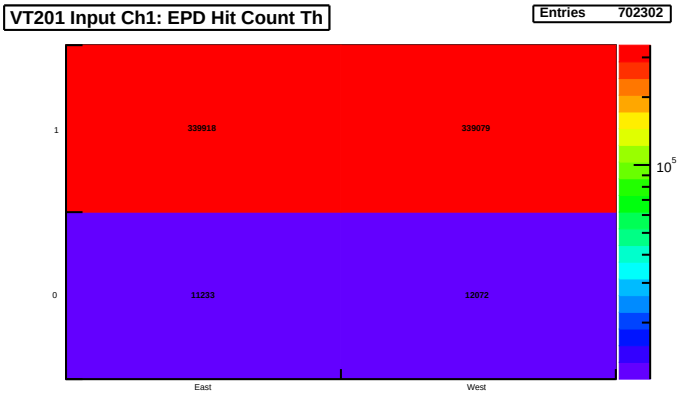

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

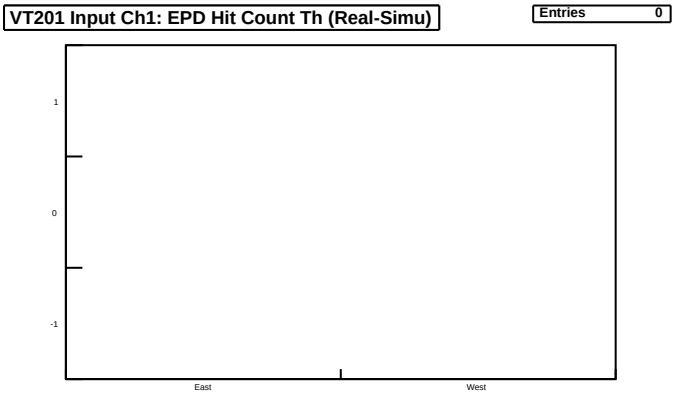

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 702302
251045
295015
100106
50136
East
West

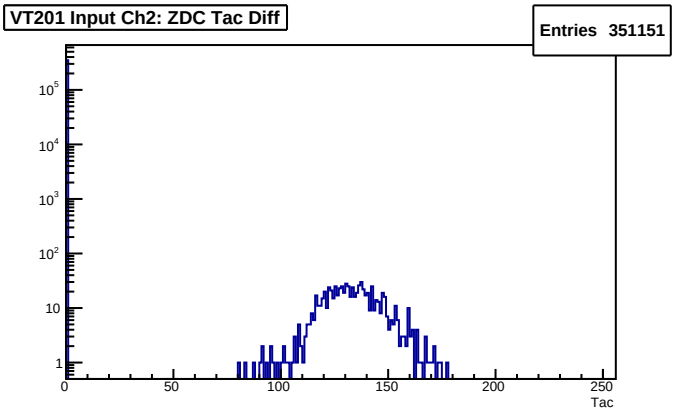

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

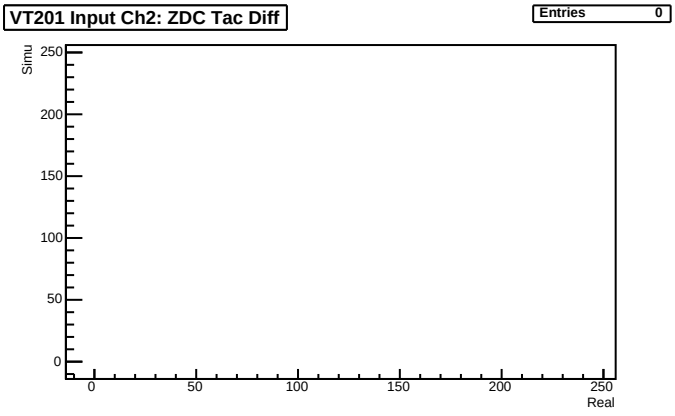

VT201 Input Ch1: EPD Tac Diff
Entries 351151
Tac

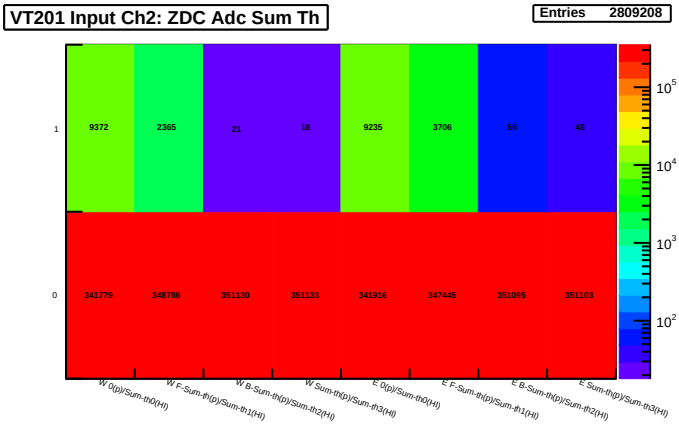

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

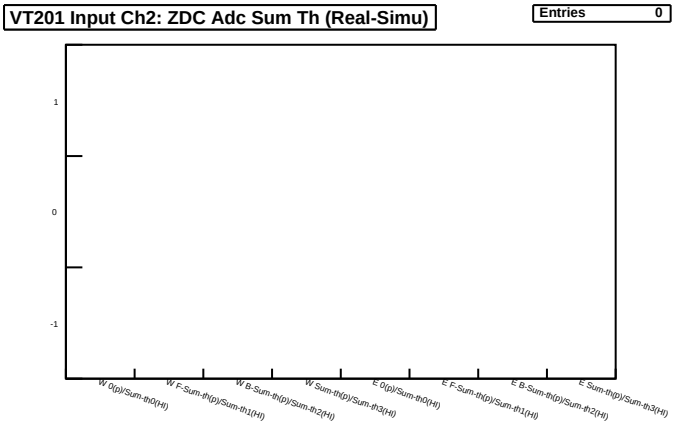

VT201 Input Ch1: EPD Hit Count Th
Entries 702302
339918
339079
11233
12072
East
West

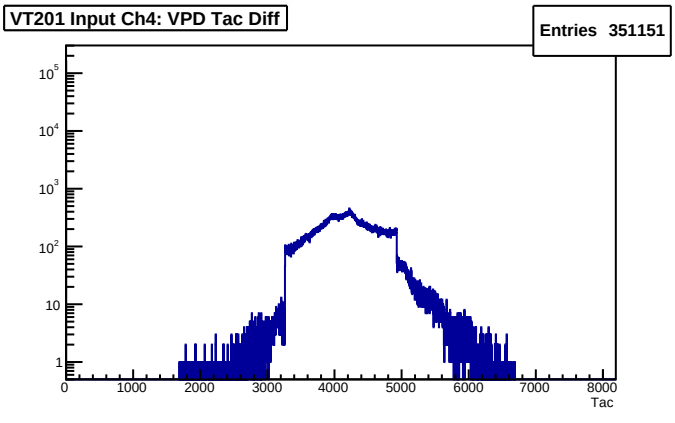

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

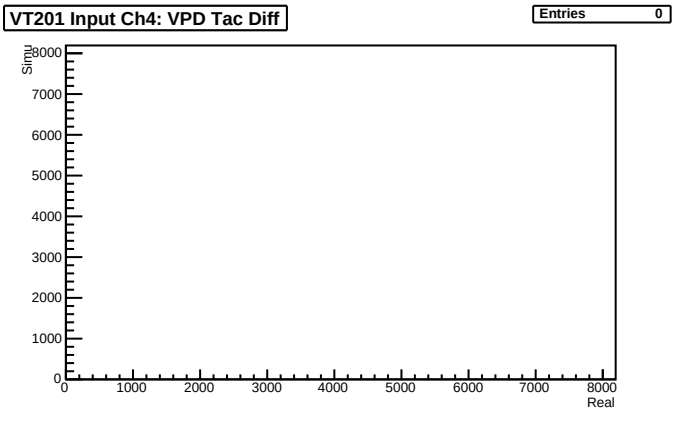

VT201 Input Ch2: ZDC Tac Diff
Entries 351151
Tac

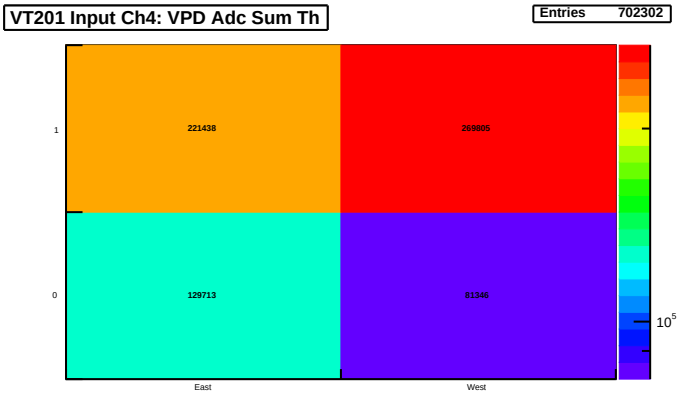

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

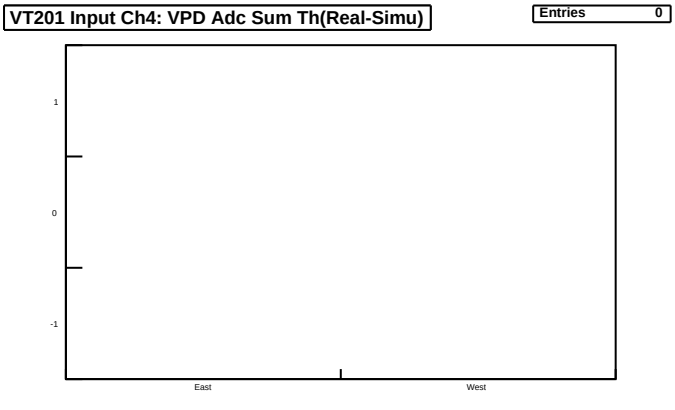

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2809208
9372
2365
21
18
9235
3706
56
48
341779
348786
351130
351133
341916
347445
351095
351103
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

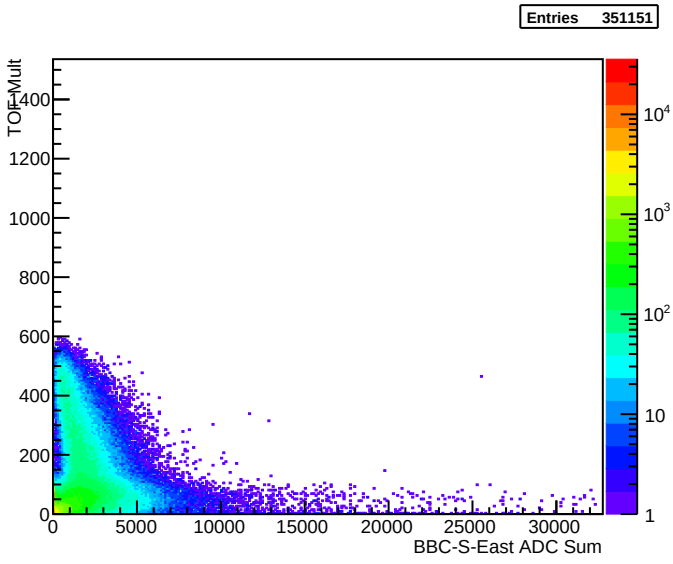

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

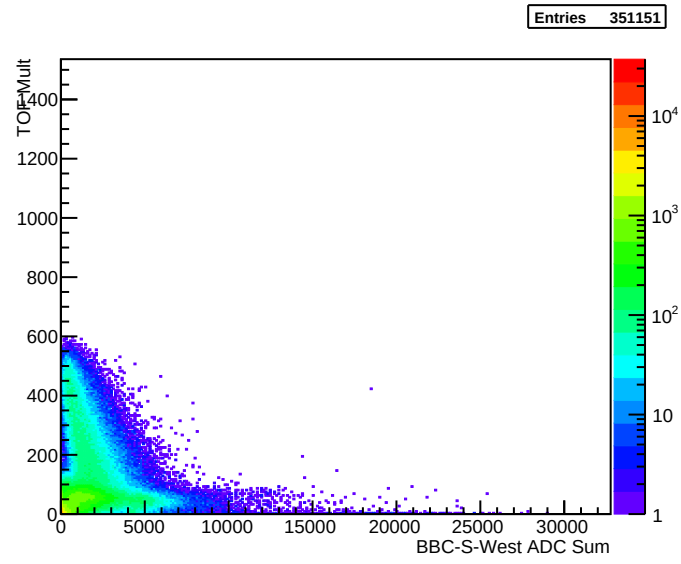

VT201 Input Ch4: VPD Tac Diff
Entries 351151
Tac

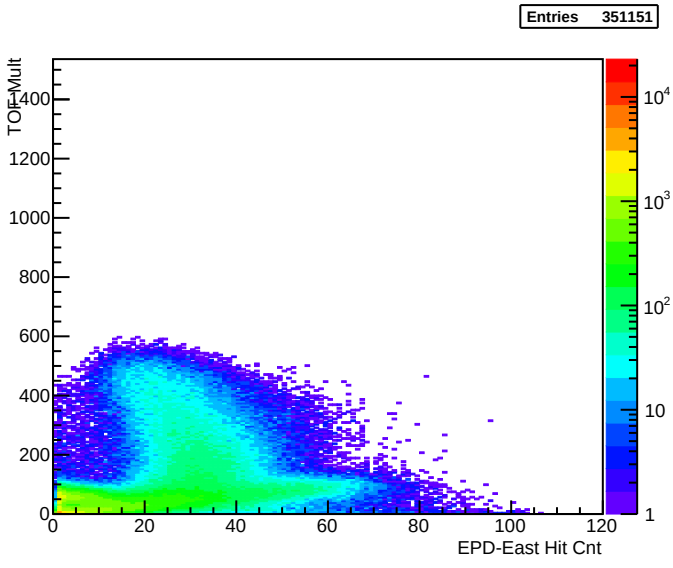

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

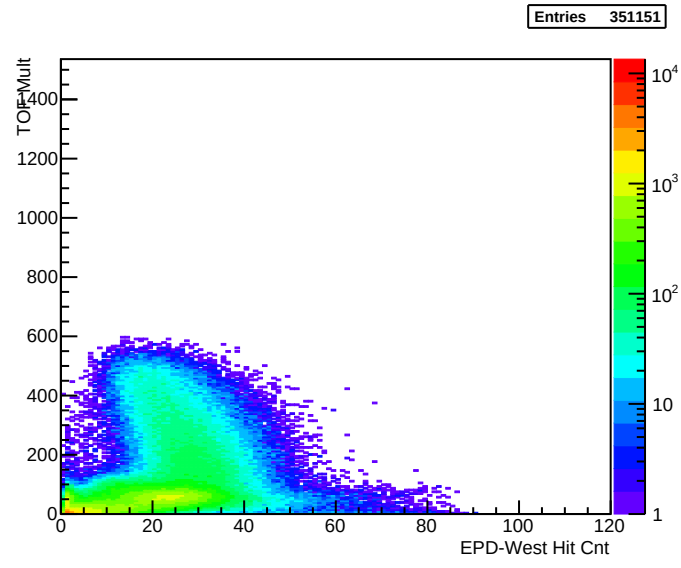

VT201 Input Ch4: VPD Adc Sum Th
Entries 702302
221438
269805
129713
81346
East
West

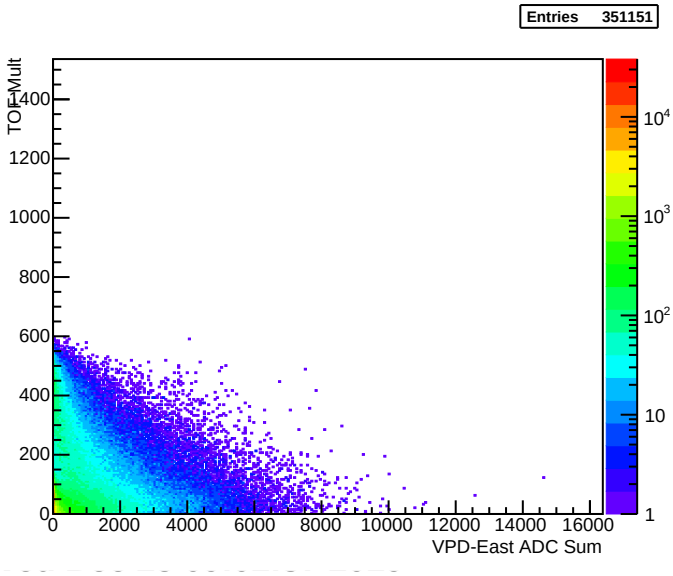

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

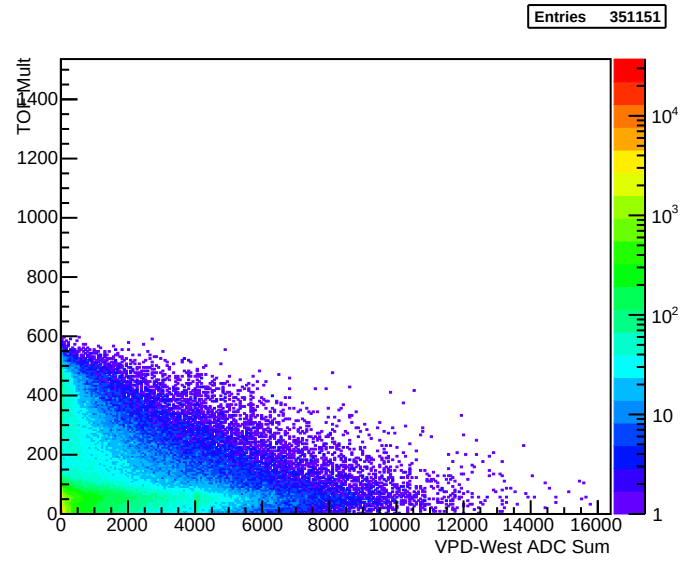

Entries 351151
TOF-Mult
BBC-S-East ADC Sum

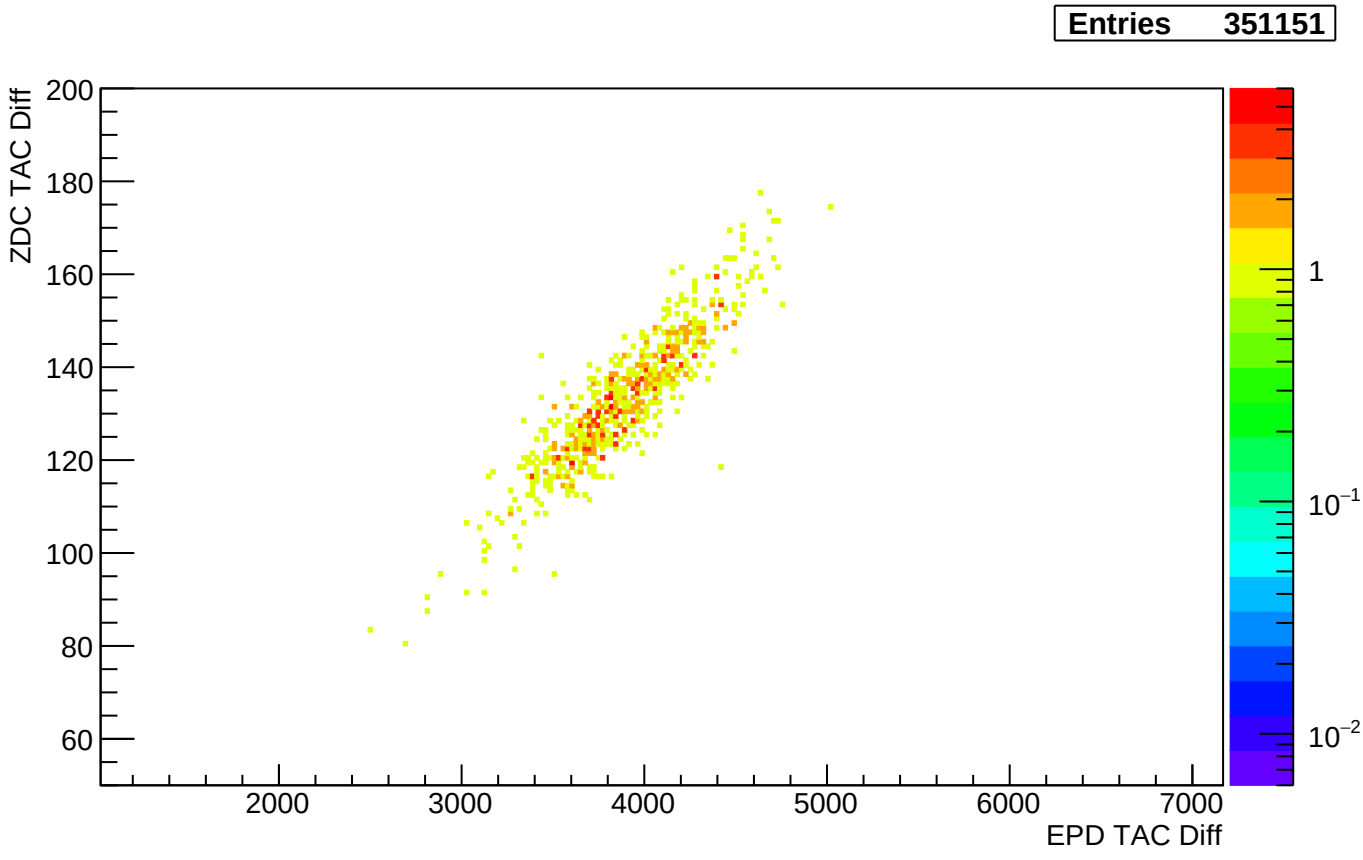

Entries 351151
TOF-Mult
BBC-S-West ADC Sum

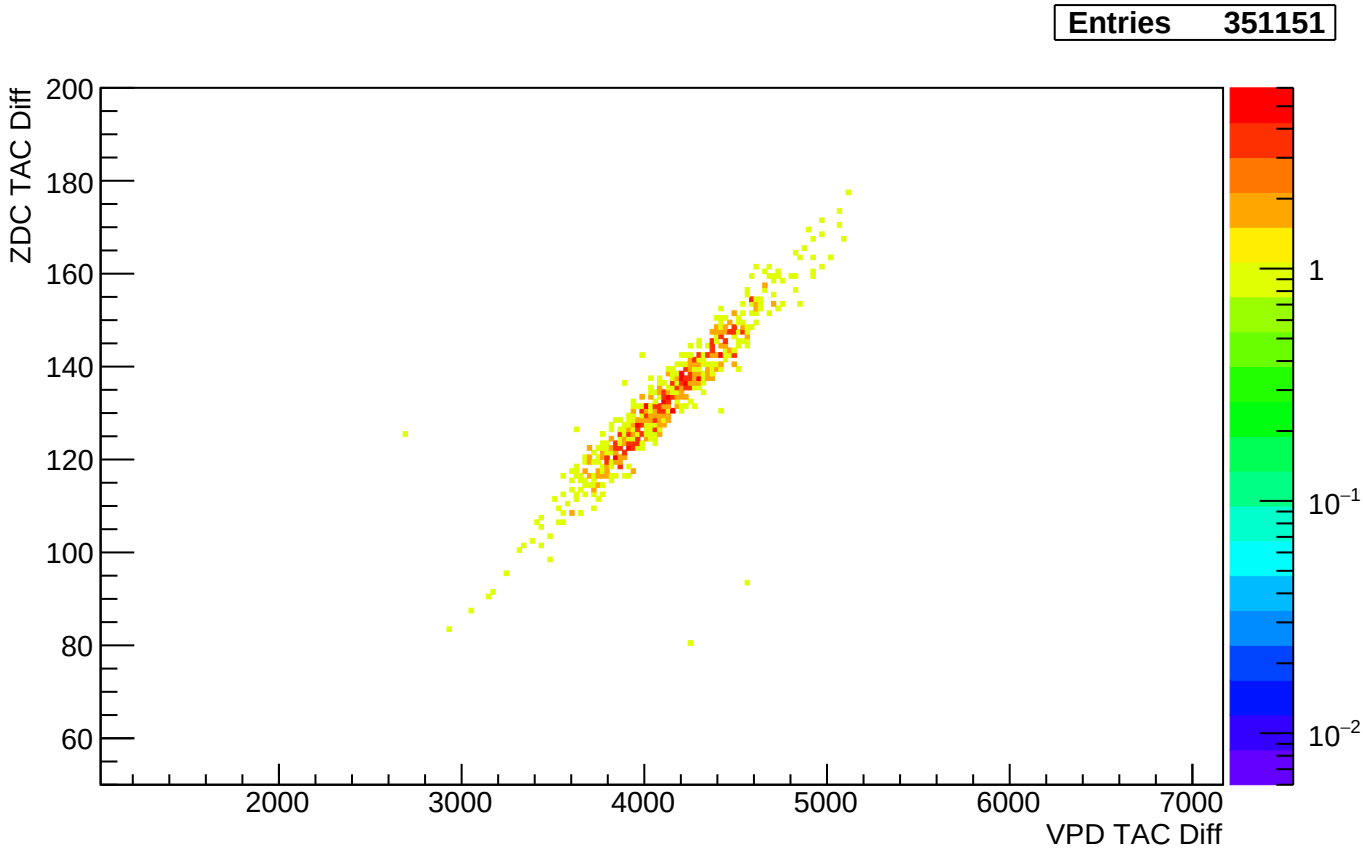

Entries 351151
TOF-Mult
EPD-East Hit Cnt

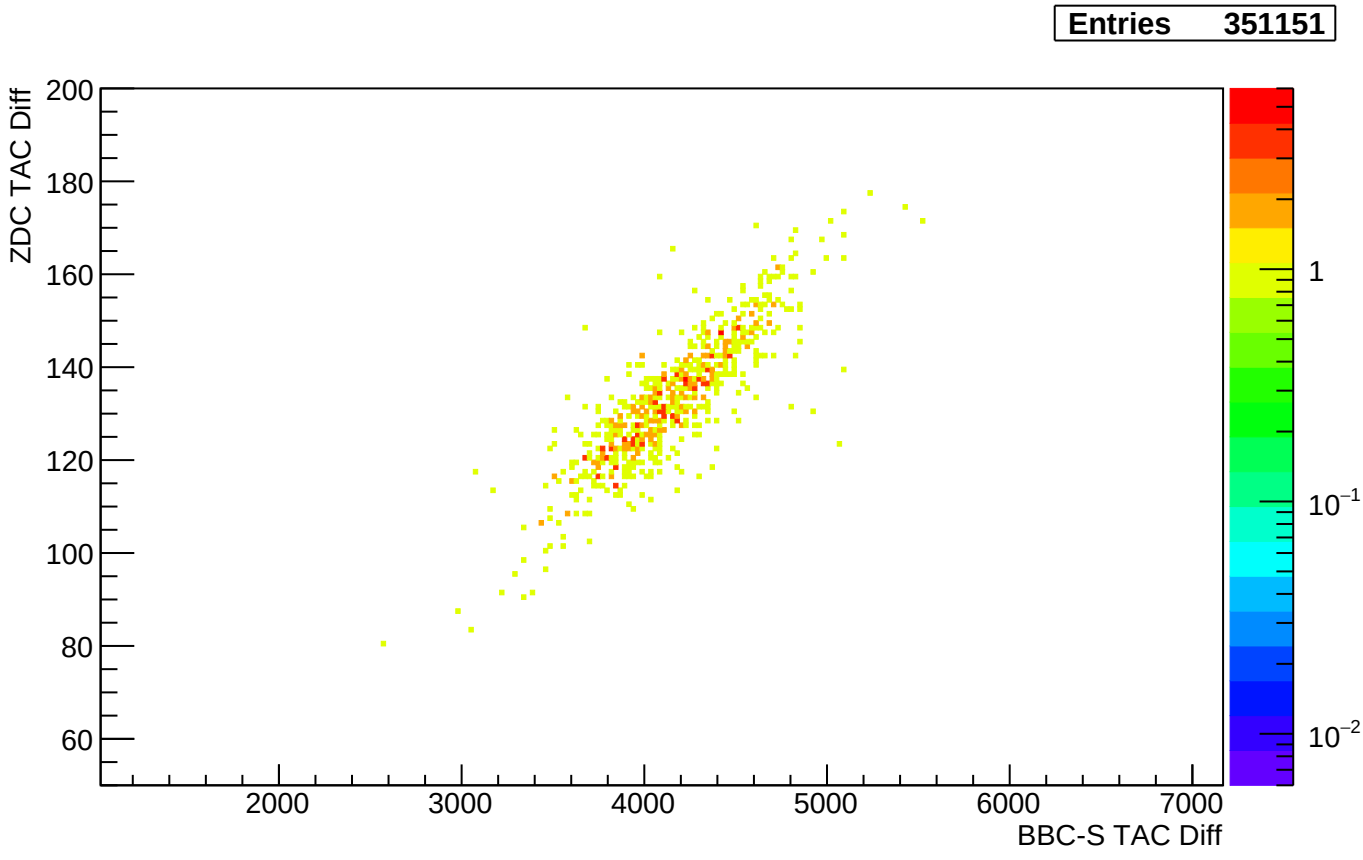

Entries 351151
TOF-Mult
EPD-West Hit Cnt

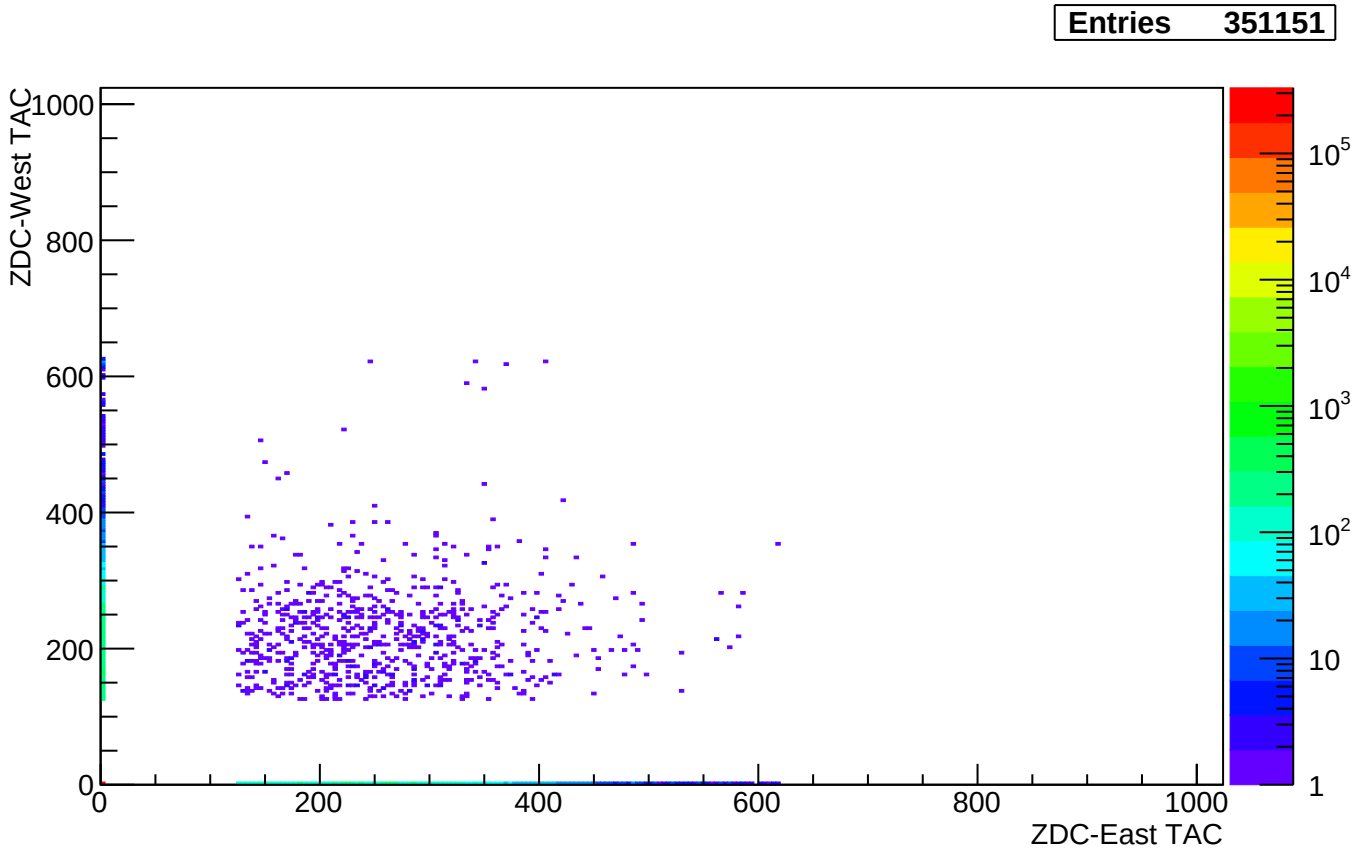

Entries 351151
TOF-Mult
VPD-East ADC Sum

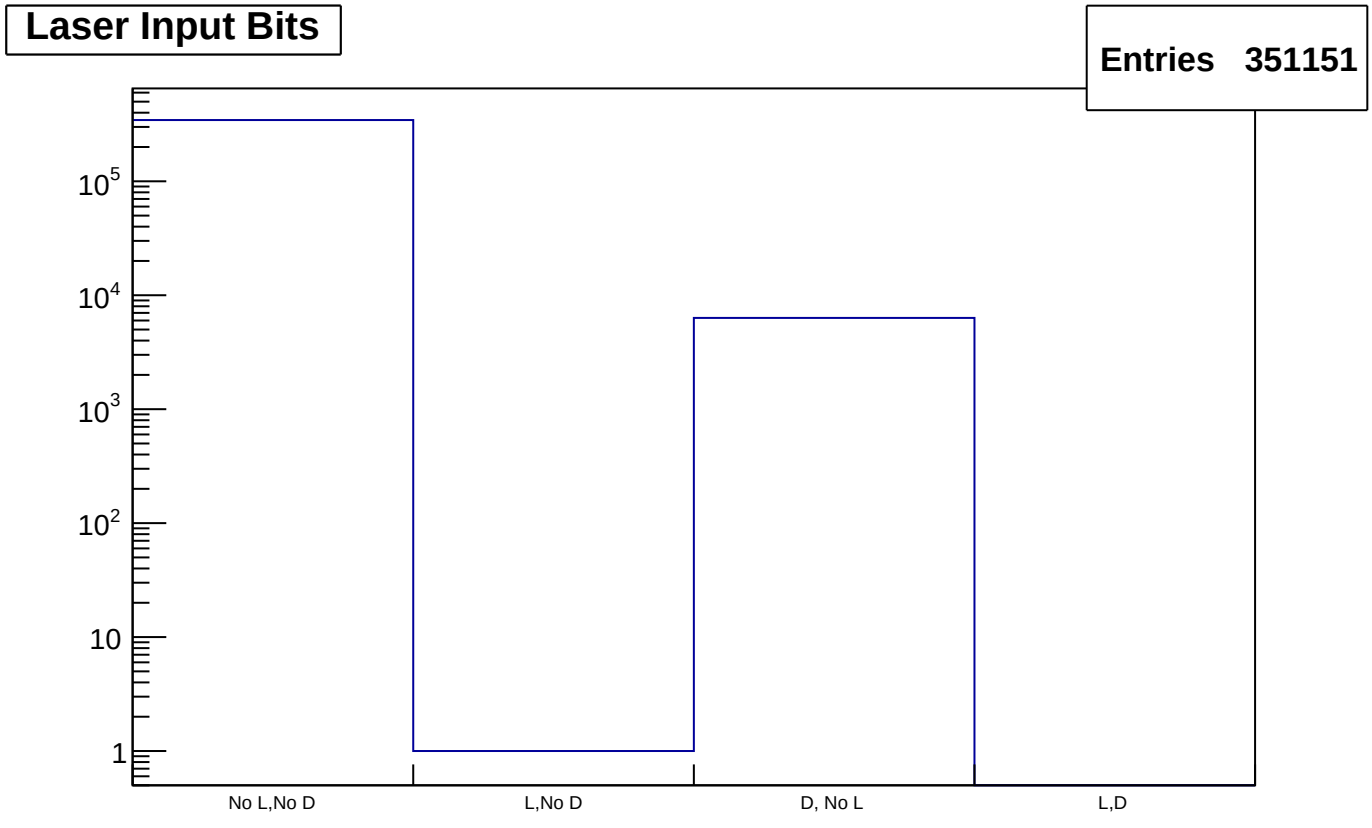

Entries 351151
TOF-Mult
VPD-West ADC Sum

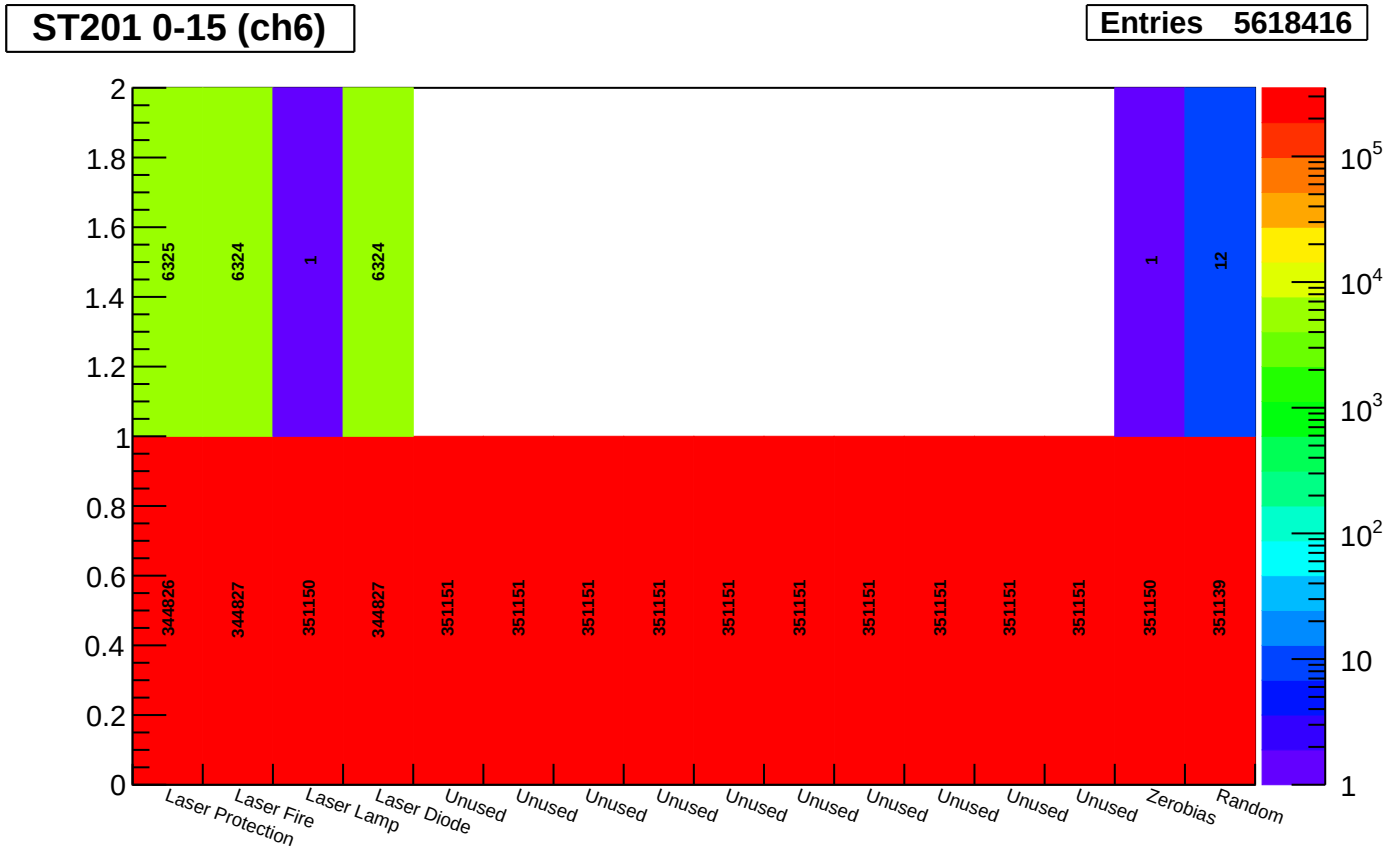

Entries 351151
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

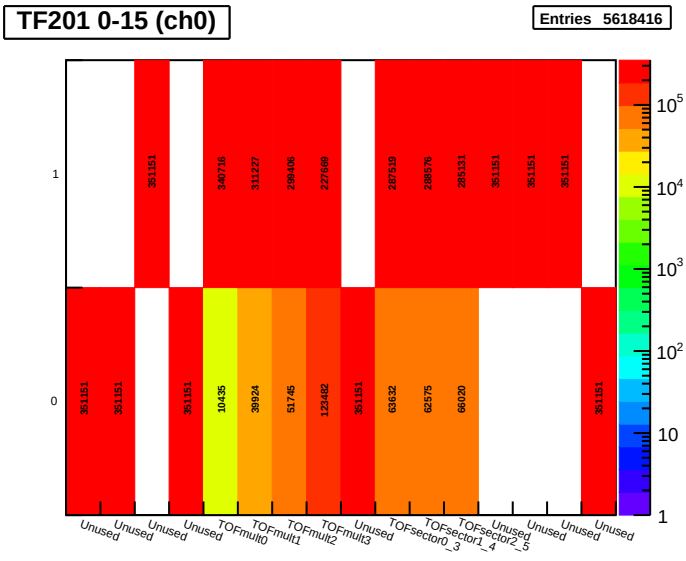

Entries 351151
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

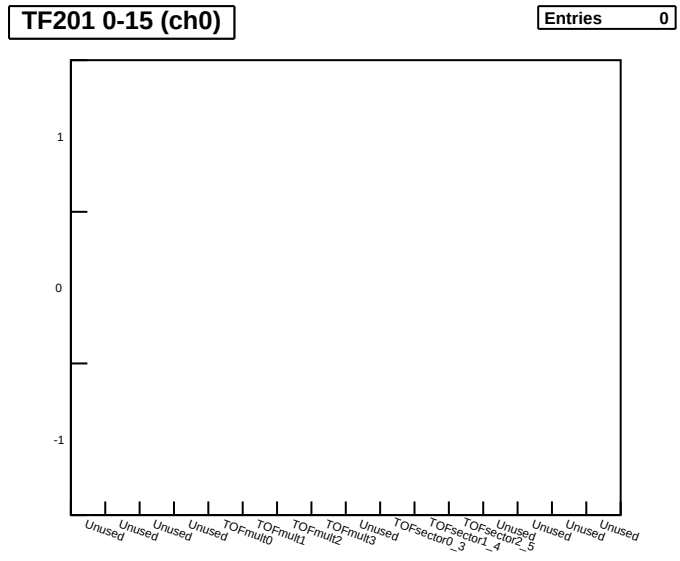

Entries 351151
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

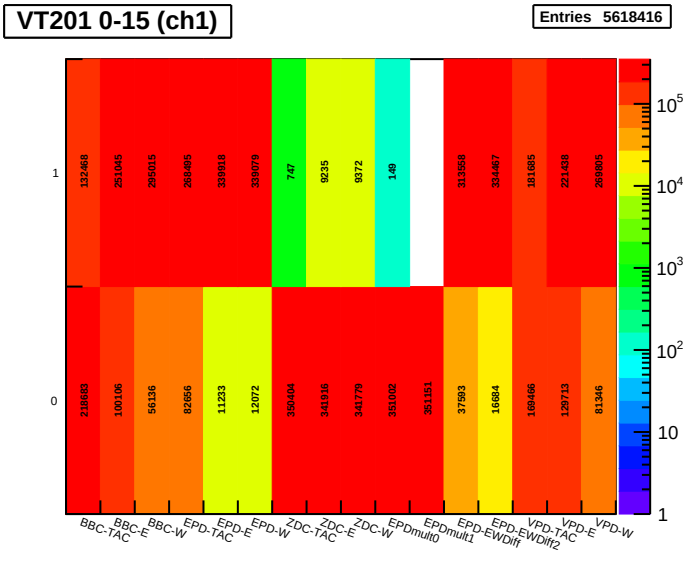

Entries 351151
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

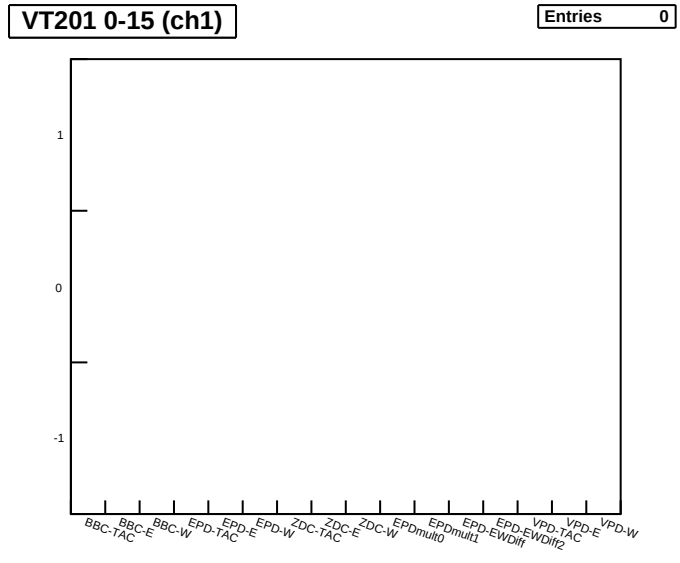

Laser Input Bits
Entries 351151
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

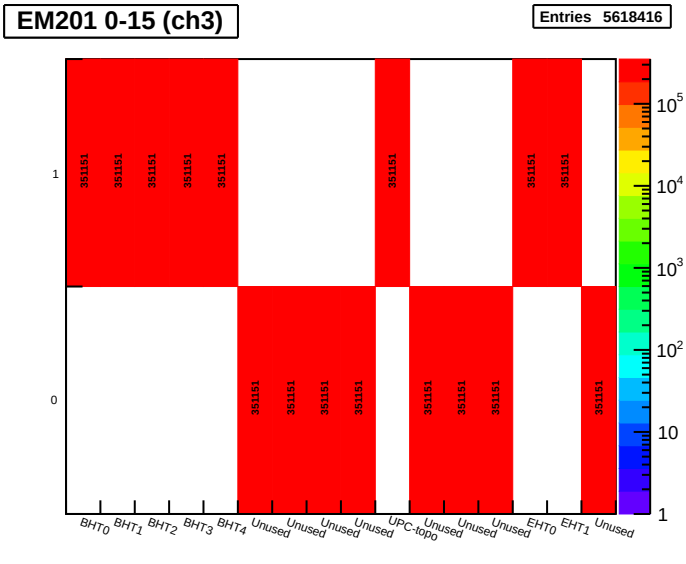

ST201 0-15 (ch6)
Entries 5618416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
6325
6324
1
6324
1
12
344826
344827
351150
344827
351151
351151
351151
351151
351151
351151
351151
351151
351151
351151
351150
351139
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

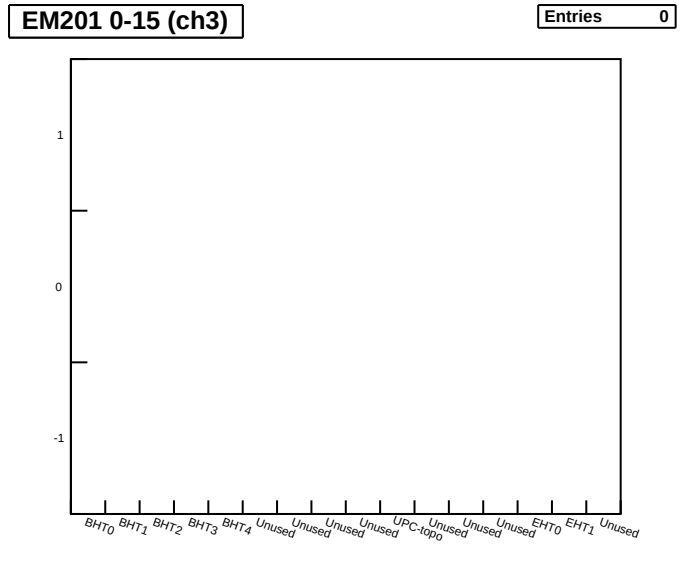

TF201 0-15 (ch0)
Entries 5618416
1
0
351151 351151 351151 351151 340716 311227 289406 227669 297519 288576 285131 351151 351151 351151
351151 351151 351151 10435 39924 51745 123482 351151 63632 62575 66020 351151
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
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 Unused


VT201 0-15 (ch1)
Entries 5618416
1
0
132468 251045 295015 268495 339918 339079 747 9235 9372 149 313558 334467 181685 221438 269805
218683 100106 56136 82666 11233 12072 350404 344916 341779 351002 351151 37593 16684 169466 129713 81346
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
10^5 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 5618416
1
0
351151 351151 351151 351151 351151 351151 351151 351151 351151
351151 351151 351151 351151 351151 351151 351151 351151
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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