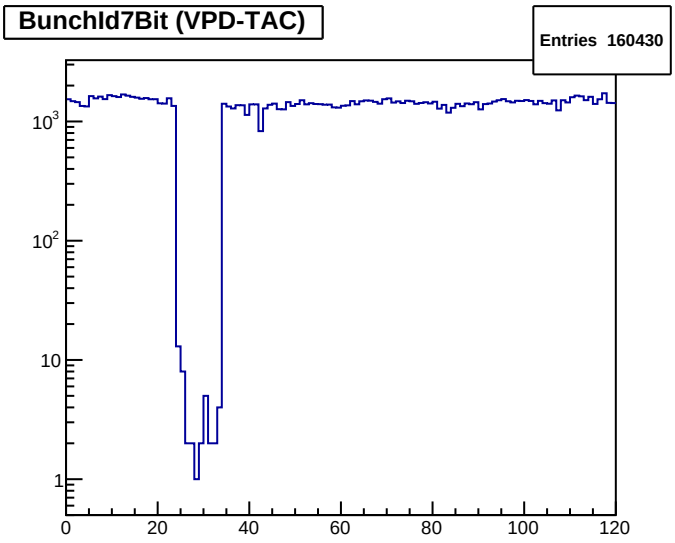
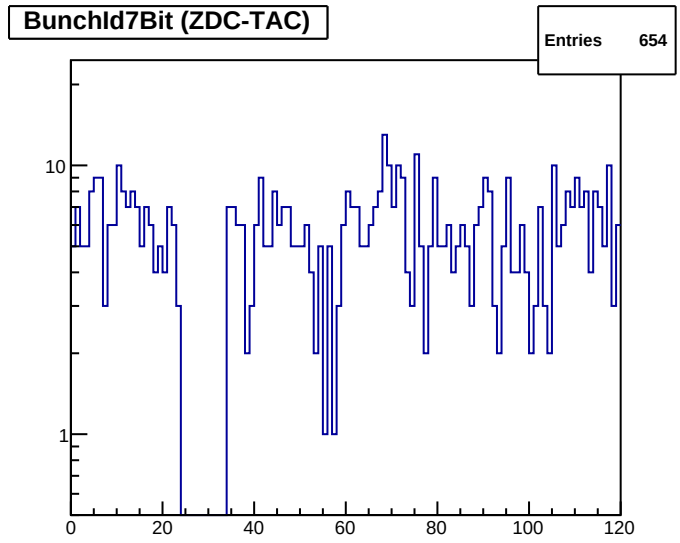
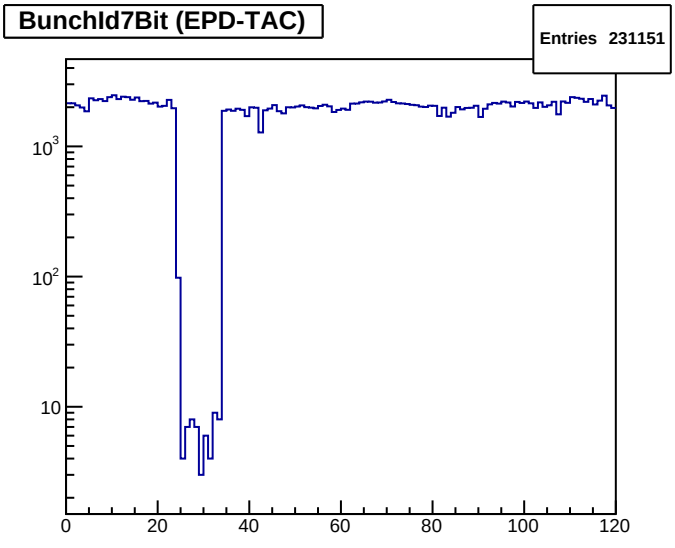
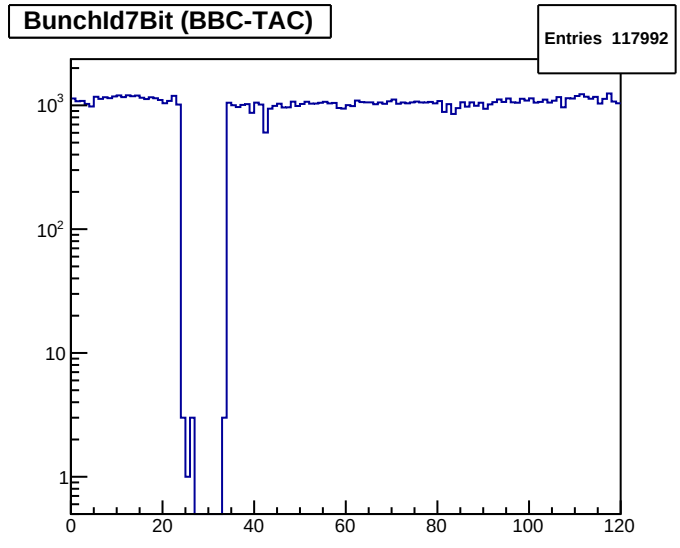
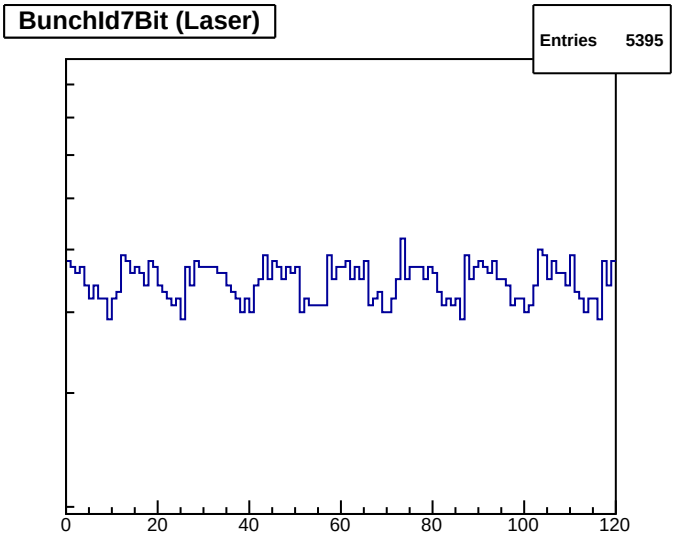
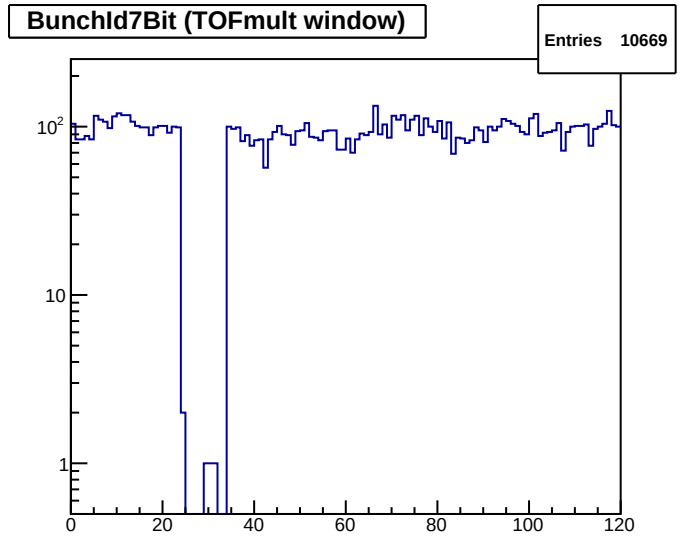

BunchId7Bit (VPD-TAC)
Entries 160430
10^3
10^2
10
1
0
20
40
60
80
100
120

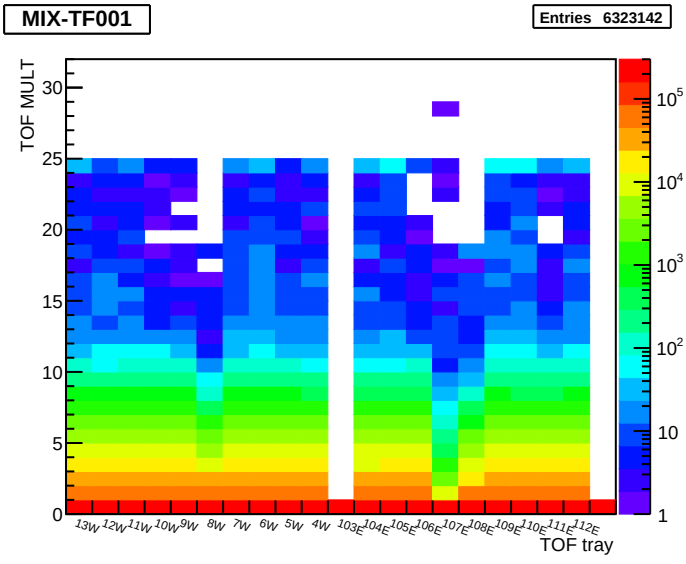

BunchId7Bit (ZDC-TAC)
Entries 654
10
1
0
20
40
60
80
100
120

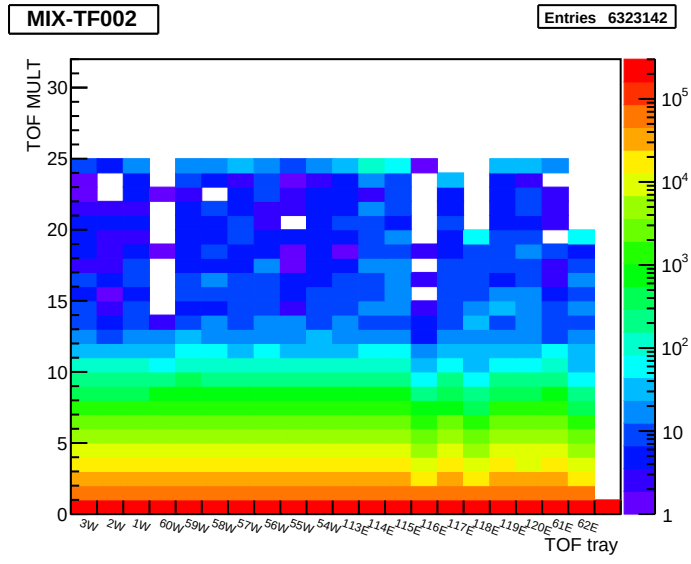

BunchId7Bit (EPD-TAC)
Entries 231151
10^3
10^2
10
0
20
40
60
80
100
120

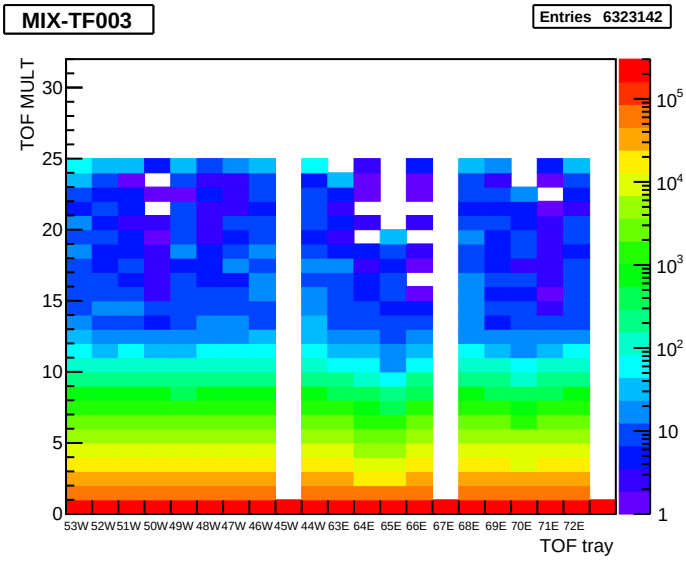

BunchId7Bit (BBC-TAC)
Entries 117992
10^3
10^2
10
1
0
20
40
60
80
100
120

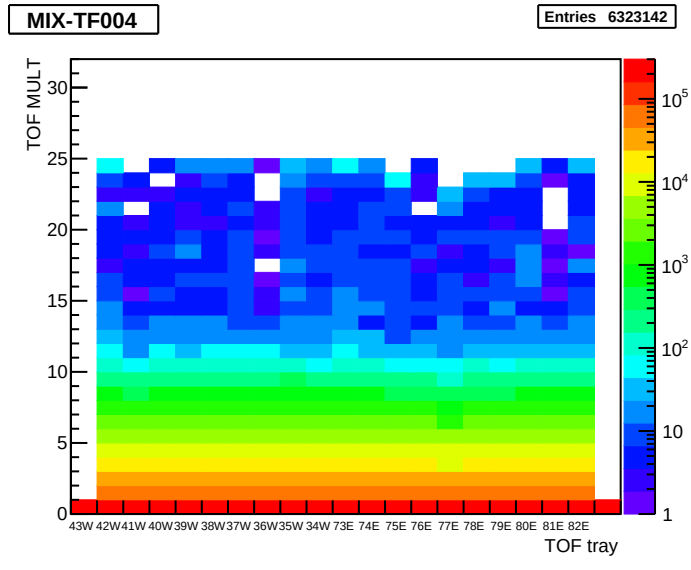

BunchId7Bit (Laser)
Entries 5395
0
20
40
60
80
100
120

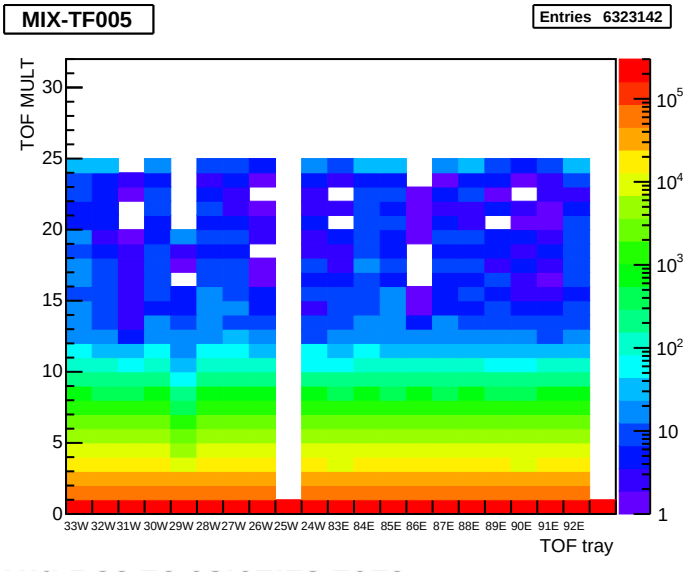

BunchId7Bit (TOFmult window)
Entries 10669
10^2
10
1
0
20
40
60
80
100
120

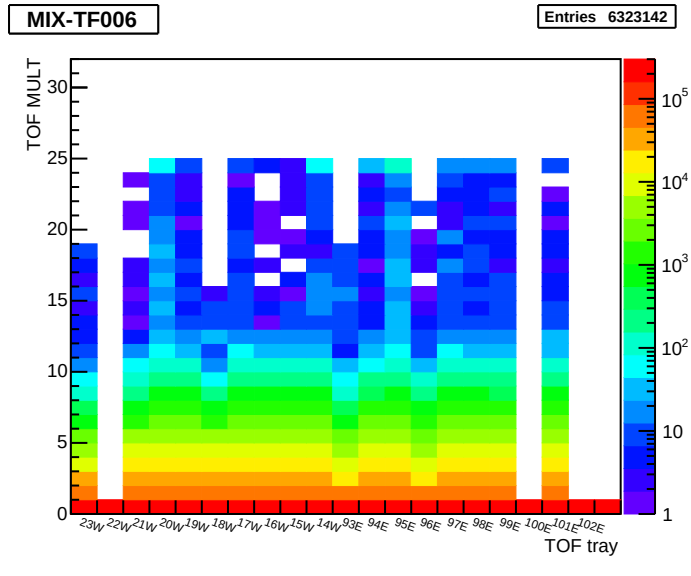

MIX-TF001
Entries 6323142
TOF MULT
TOF tray

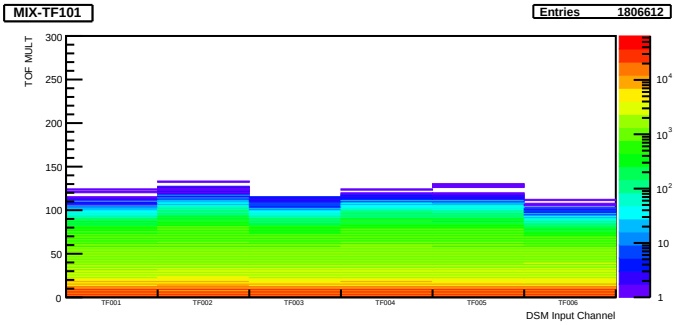

MIX-TF002
Entries 6323142
TOF MULT
TOF tray

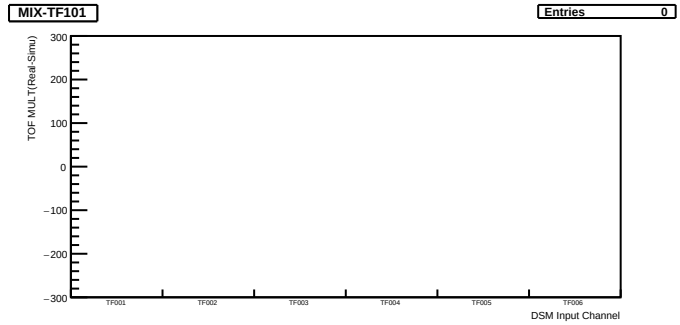

MIX-TF003
Entries 6323142
TOF MULT
TOF tray

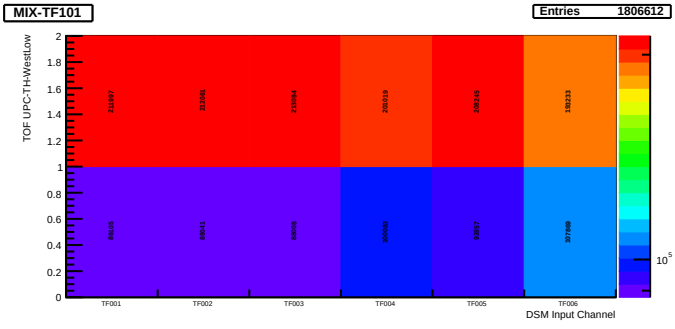

MIX-TF004
Entries 6323142
TOF MULT
TOF tray

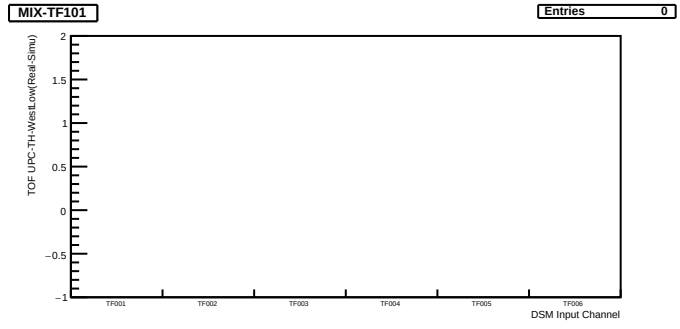

MIX-TF005
Entries 6323142
TOF MULT
TOF tray

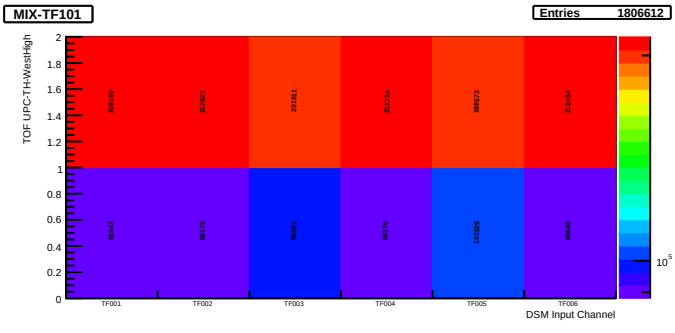

MIX-TF006
Entries 6323142
TOF MULT
TOF tray

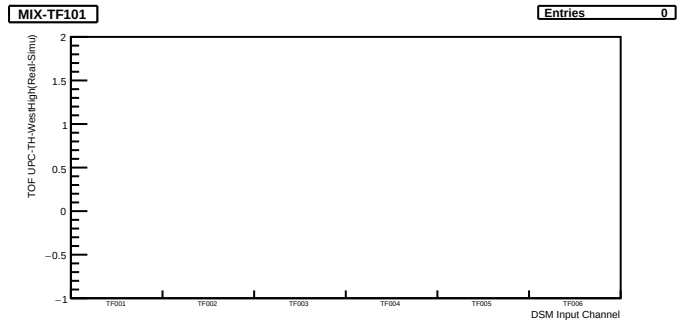

MIX-TF101
Entries 1806612
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

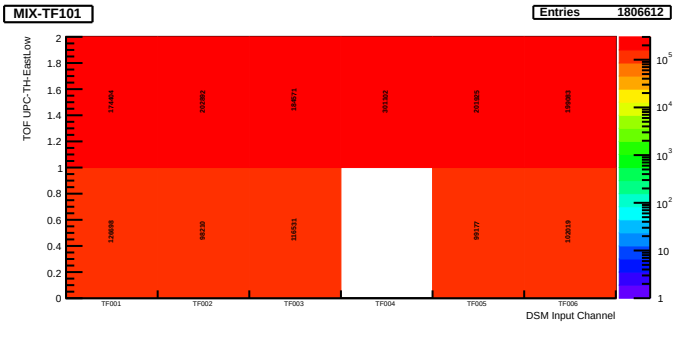

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

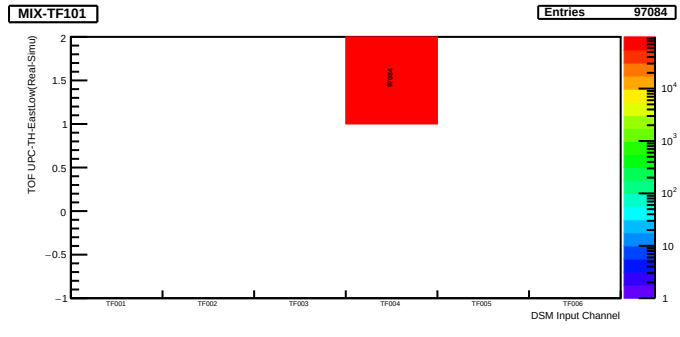

MIX-TF101
Entries 1806612
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

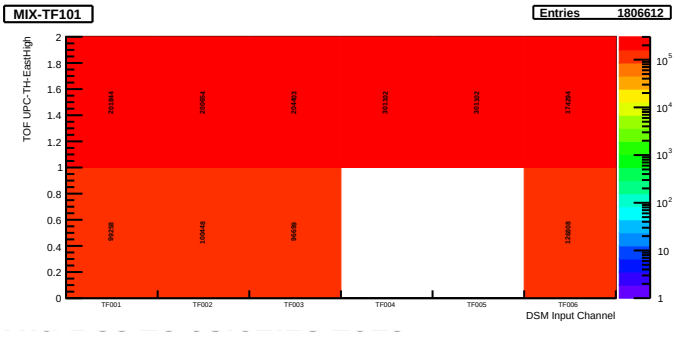

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

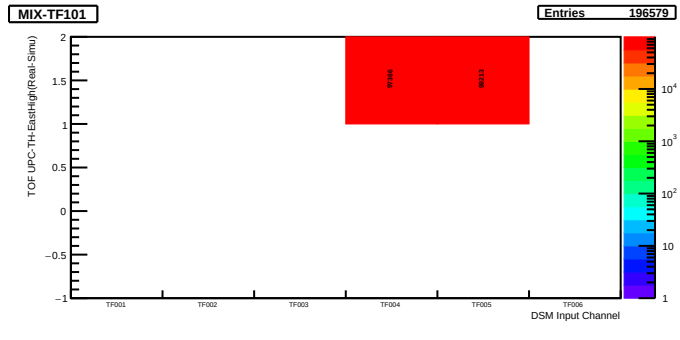

MIX-TF101
Entries 1806612
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

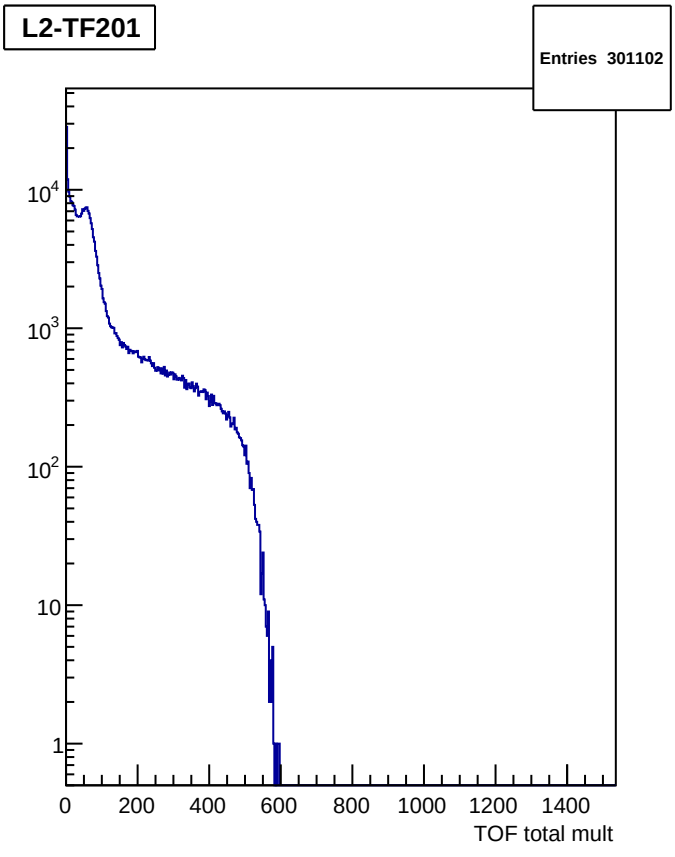

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

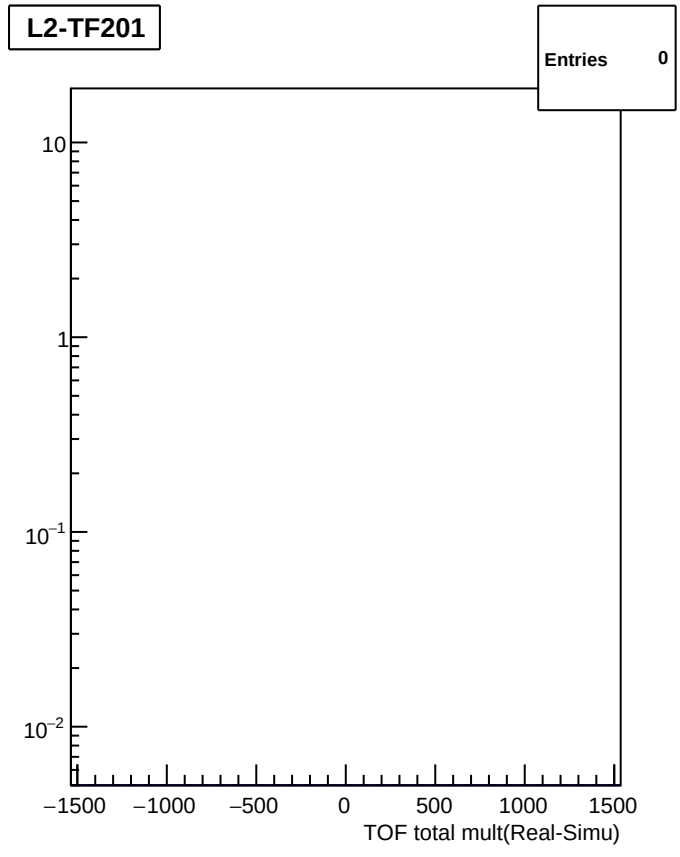

MIX-TF101
Entries 1806612
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

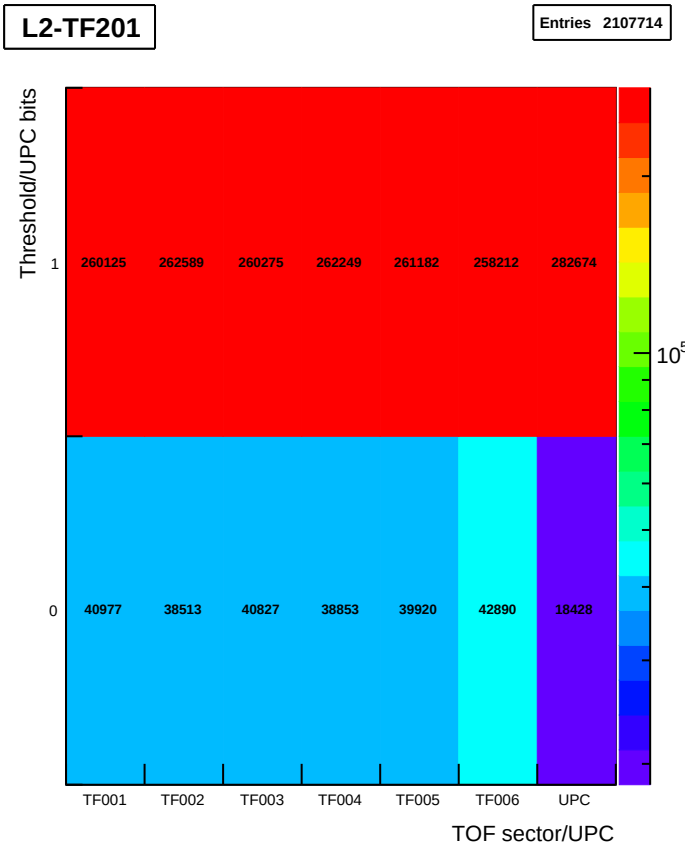

MIX-TF101
Entries 97084
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

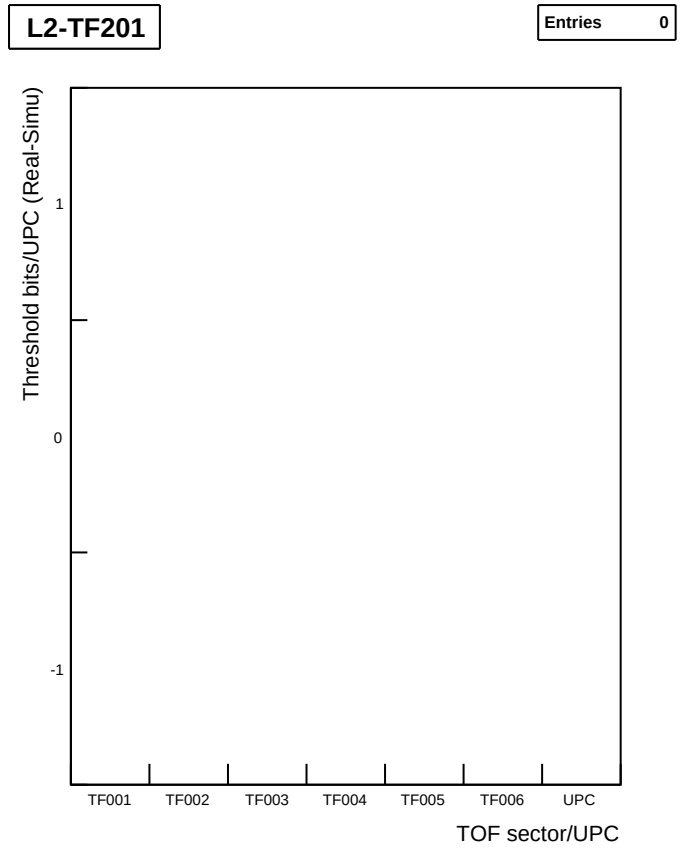

MIX-TF101
Entries 1806612
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

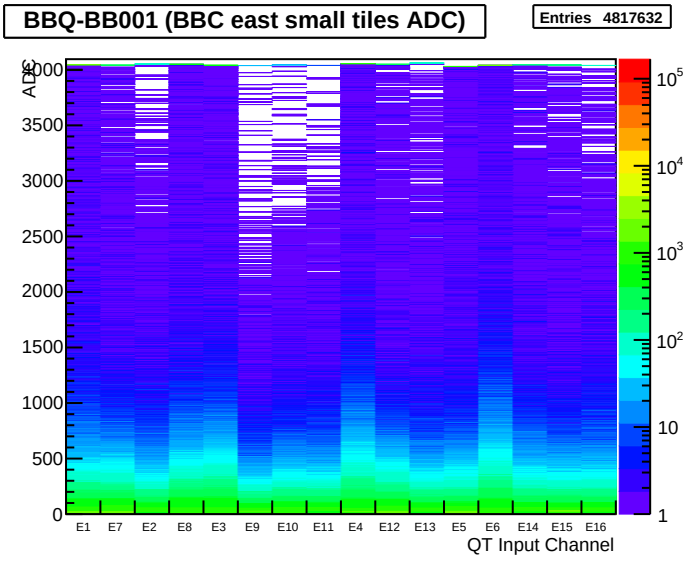

MIX-TF101
Entries 196579
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

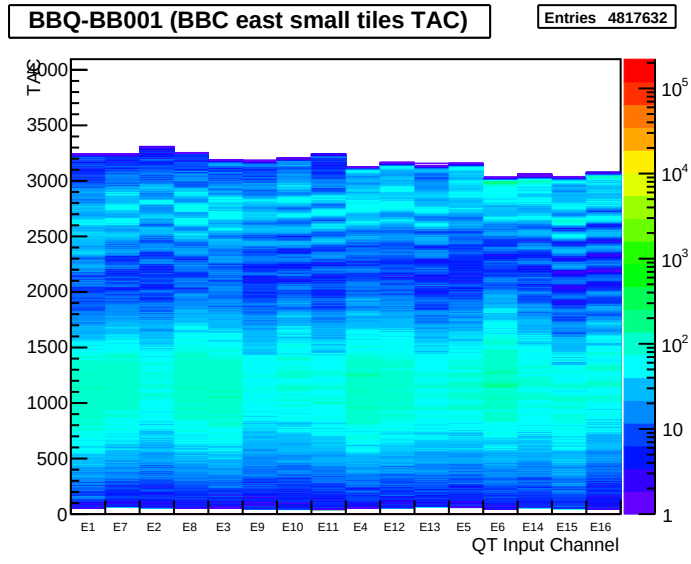

L2-TF201
Entries 301102
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

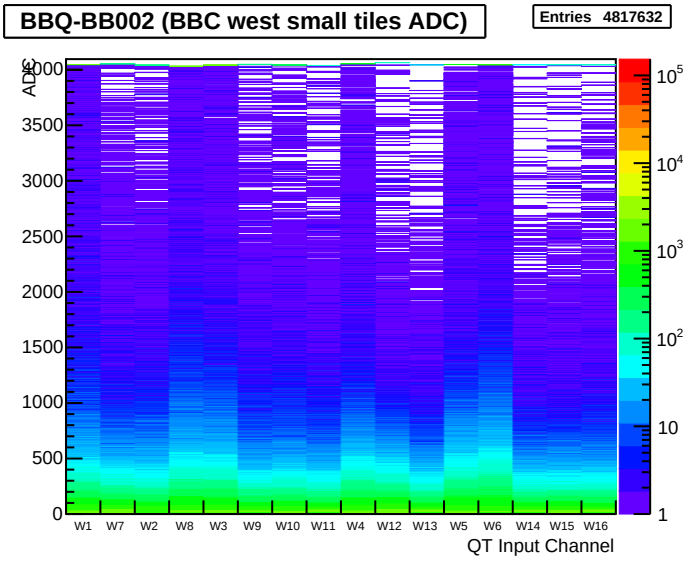

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
−1500
−1000
−500
0
500
1000
1500
TOF total mult(Real-Simu)

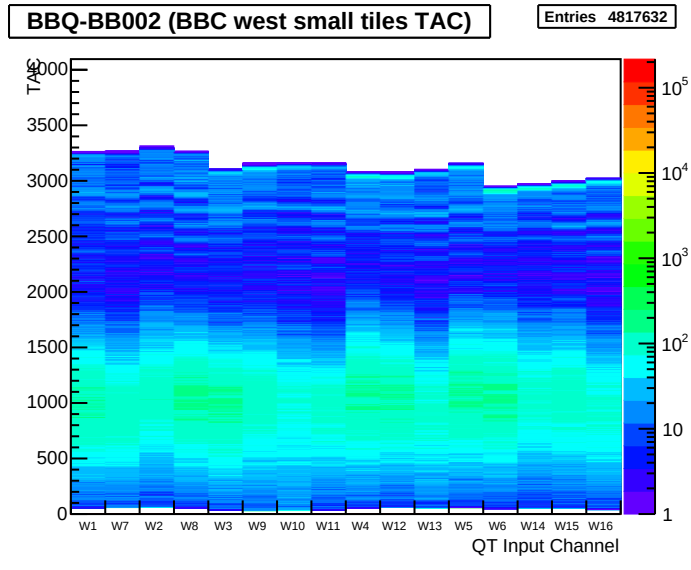

L2-TF201
Entries 2107714
Threshold/UPC bits
1
0
260125
262589
260275
262249
261182
258212
282674
40977
38513
40827
38853
39920
42890
18428
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

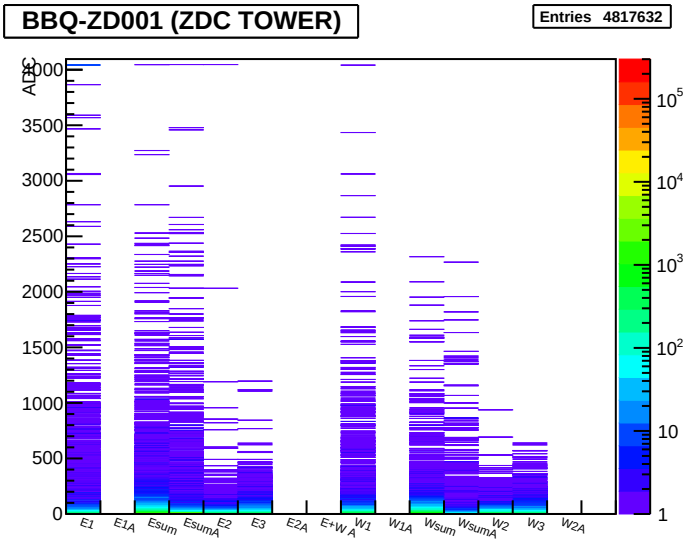

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

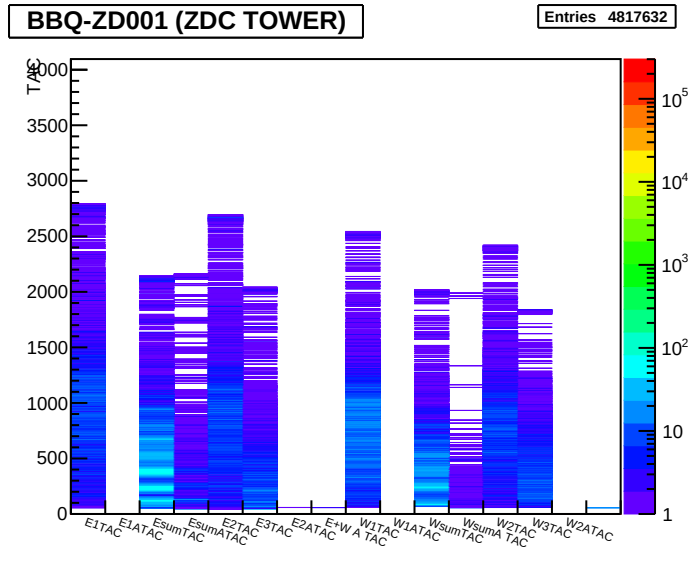

BBQ-BB001 (BBC east small tiles ADC)
Entries 4817632
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

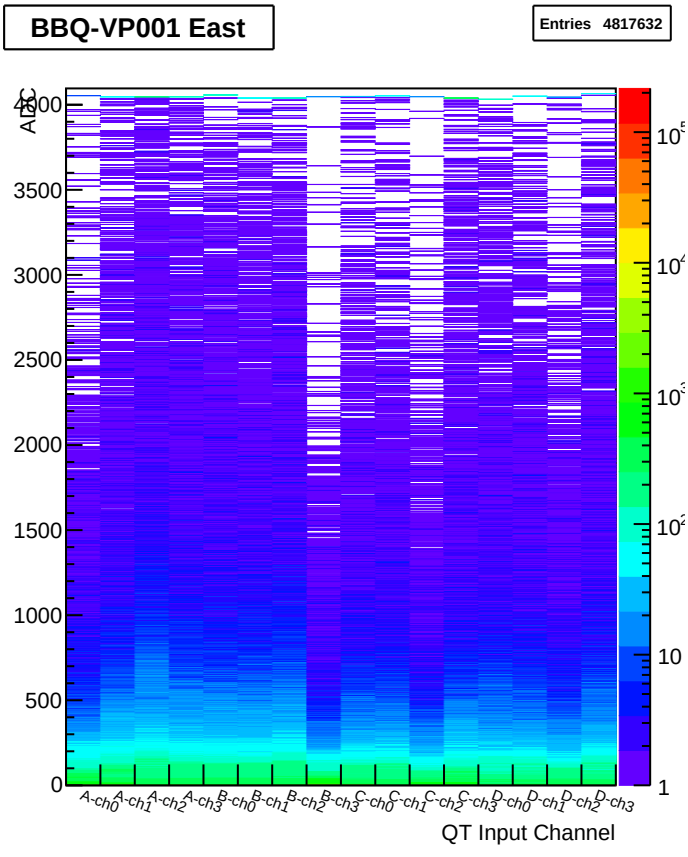

BBQ-BB001 (BBC east small tiles TAC)
Entries 4817632
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

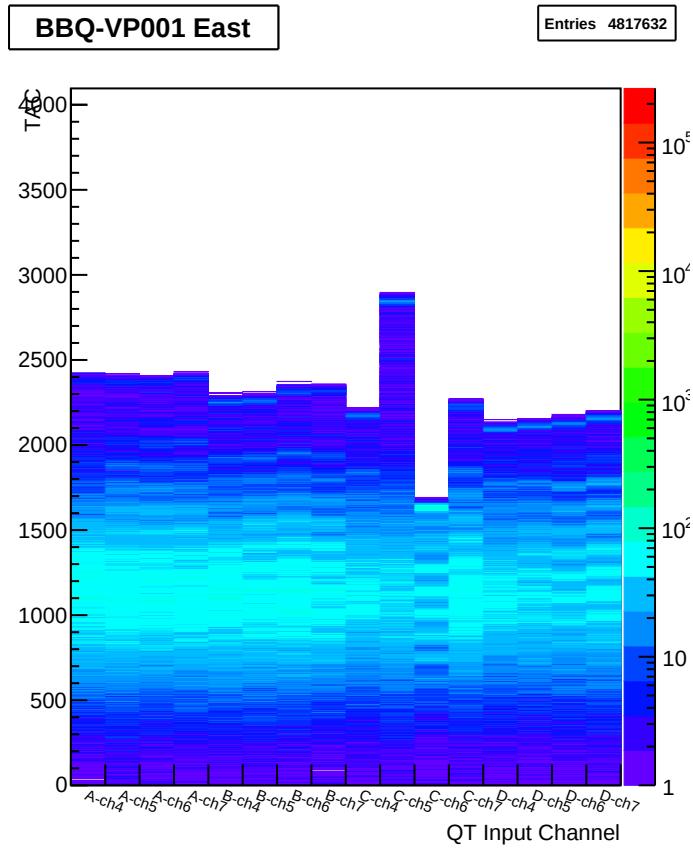

BBQ-BB002 (BBC west small tiles ADC)
Entries 4817632
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

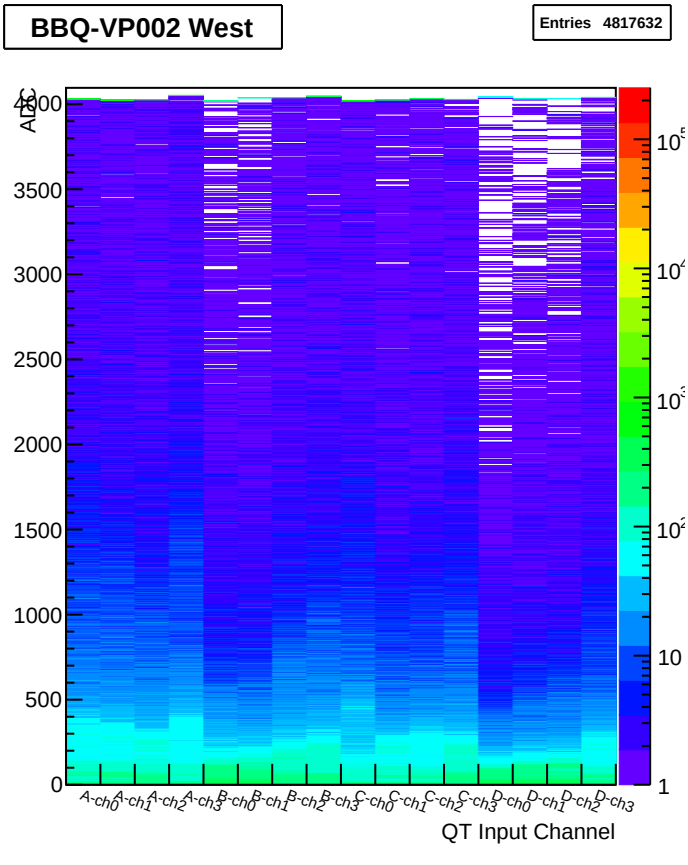

BBQ-BB002 (BBC west small tiles TAC)
Entries 4817632
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

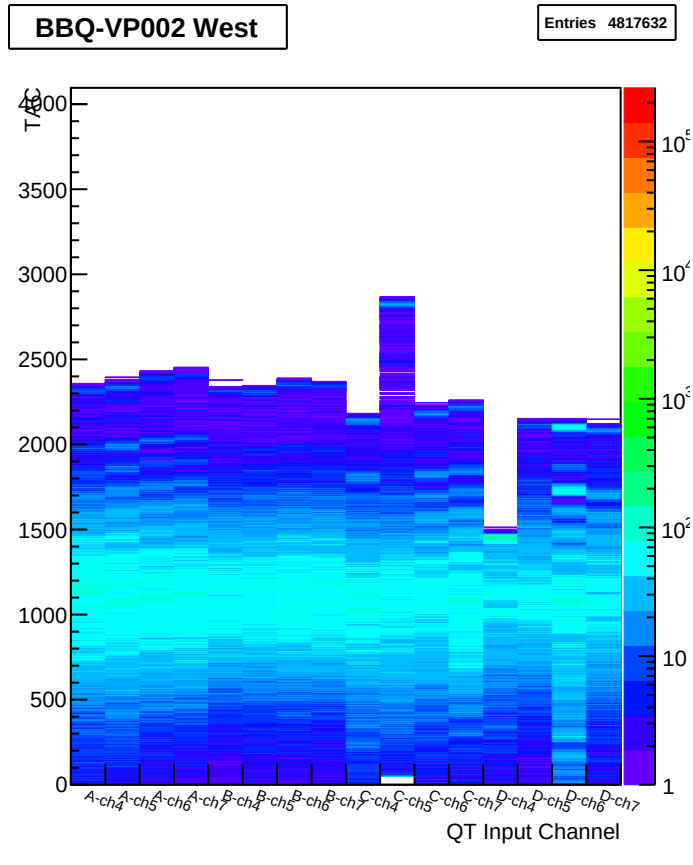

BBQ-ZD001 (ZDC TOWER)
Entries 4817632
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

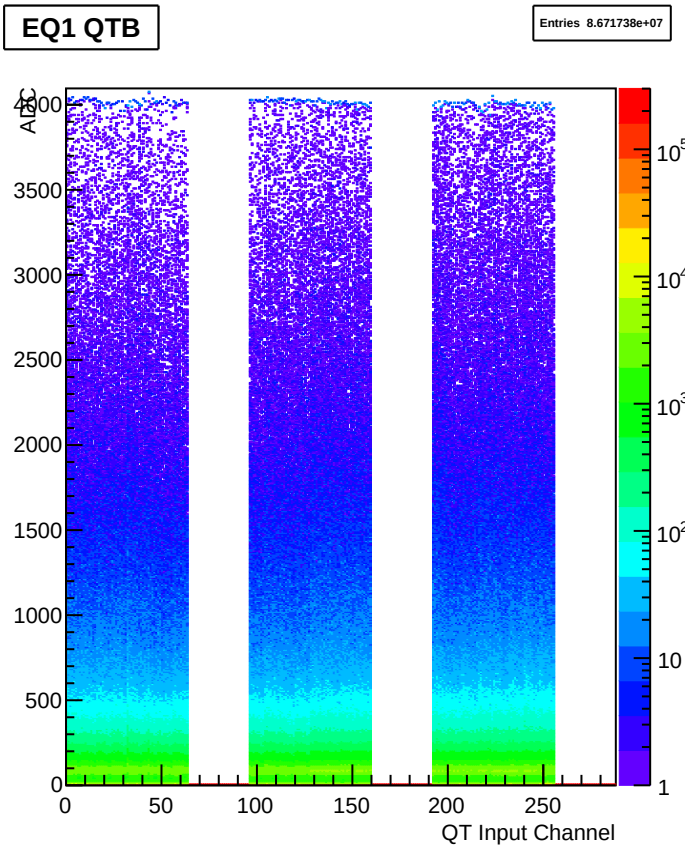

BBQ-ZD001 (ZDC TOWER)
Entries 4817632
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

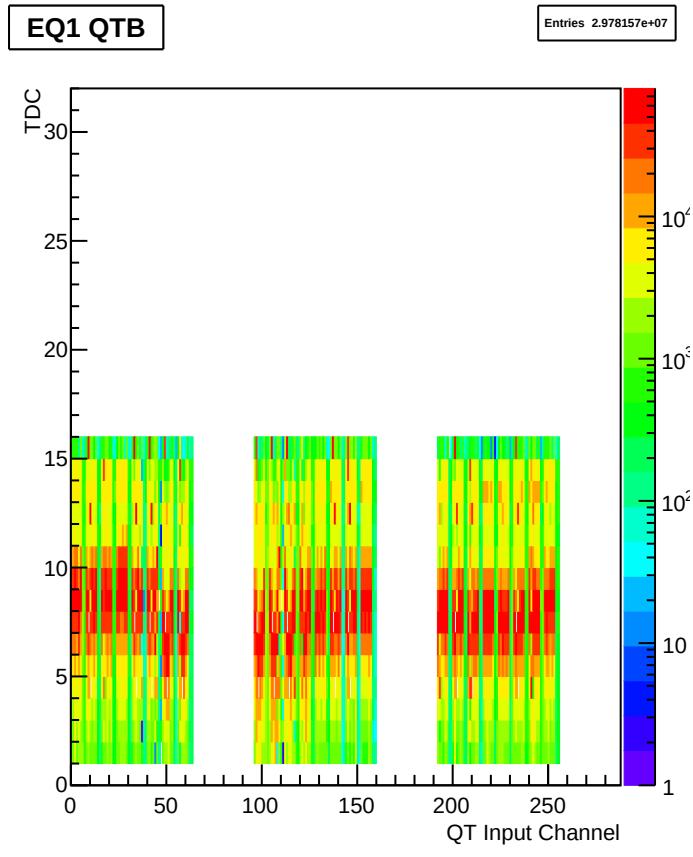

BBQ-VP001 East
Entries 4817632
ADC
QT Input Channel

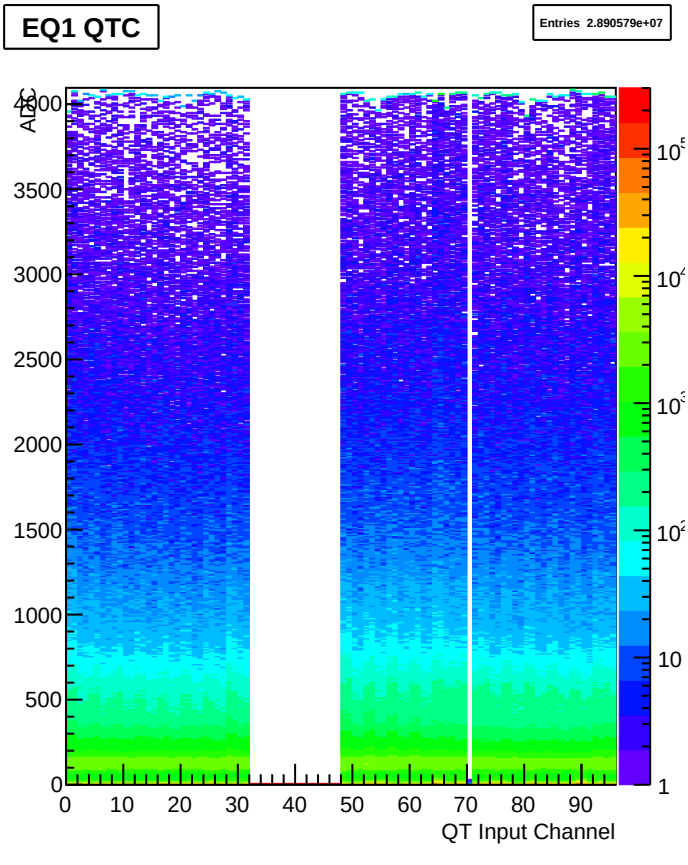

BBQ-VP001 East
Entries 4817632
ADC
QT Input Channel

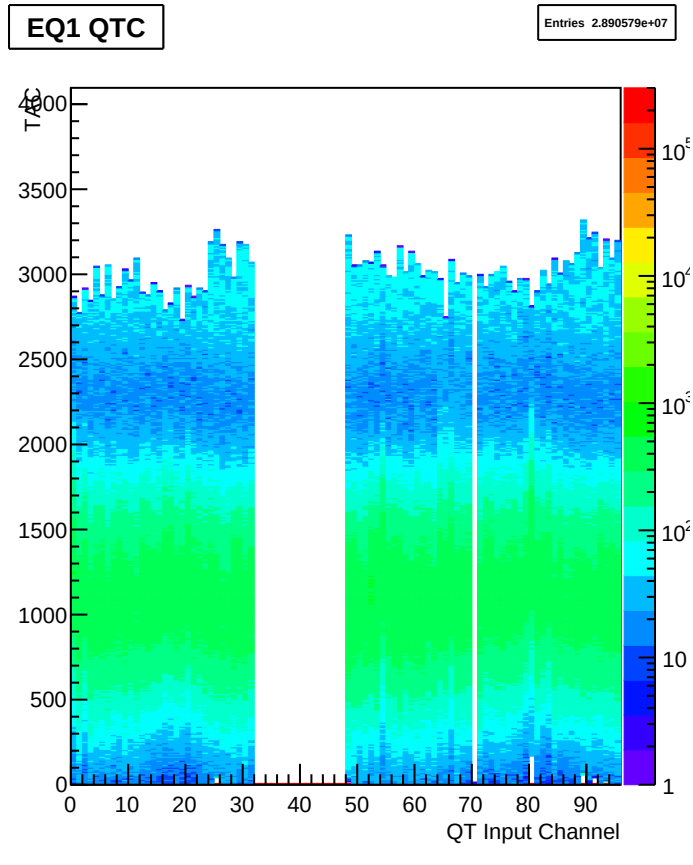

BBQ-VP002 West
Entries 4817632
ADC
QT Input Channel

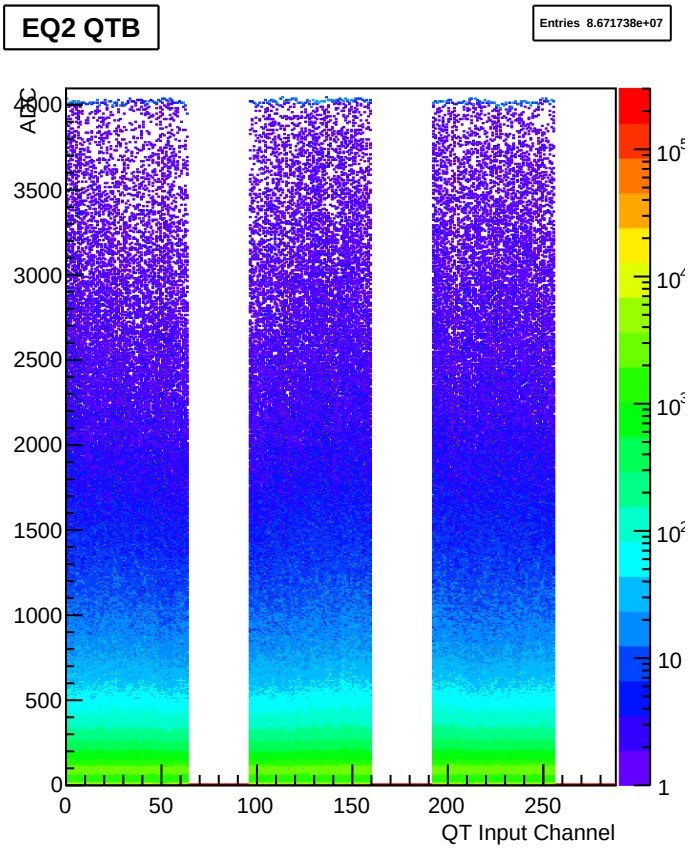

BBQ-VP002 West
Entries 4817632
ADC
QT Input Channel

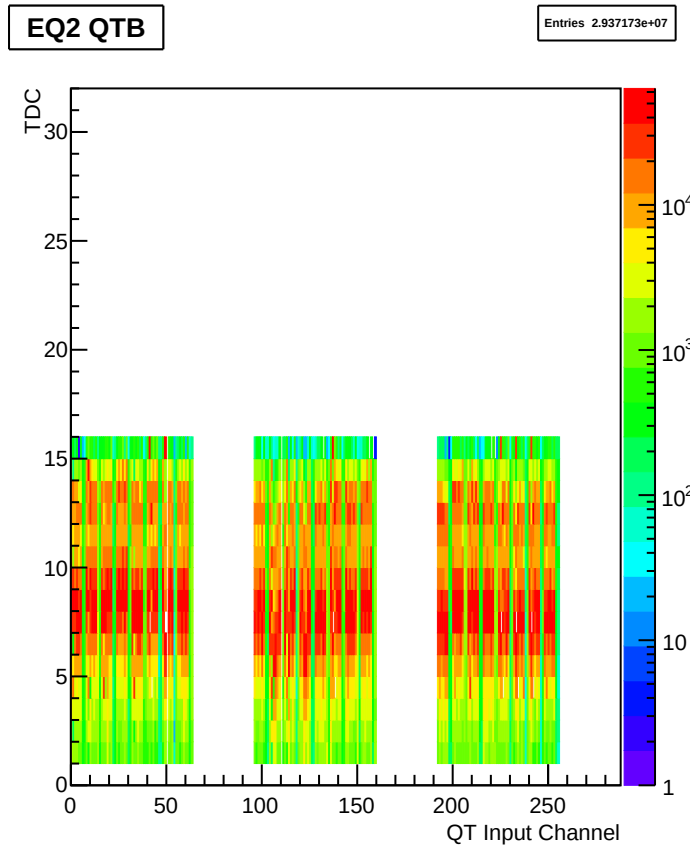

EQ1 QTB
Entries 8.671738e+07
ADC
QT Input Channel

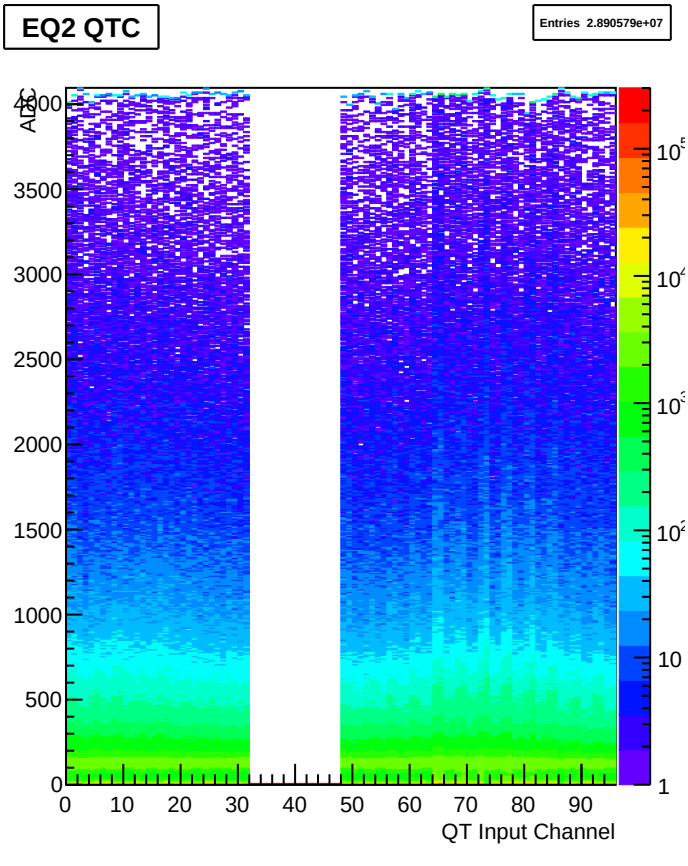

EQ1 QTB
Entries 2.978157e+07
TDC
QT Input Channel

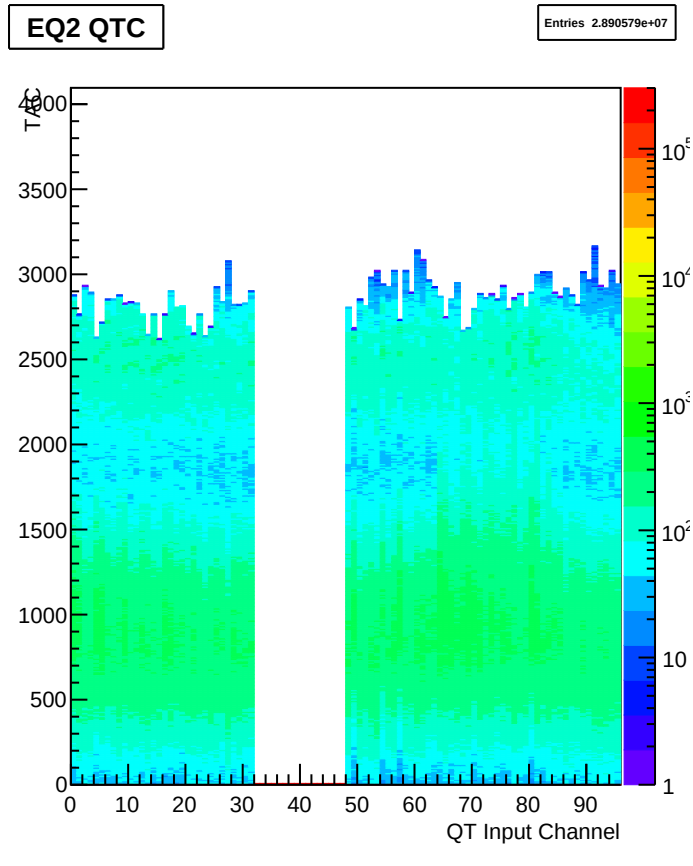

EQ1 QTC
Entries 2.890579e+07
ADC
QT Input Channel

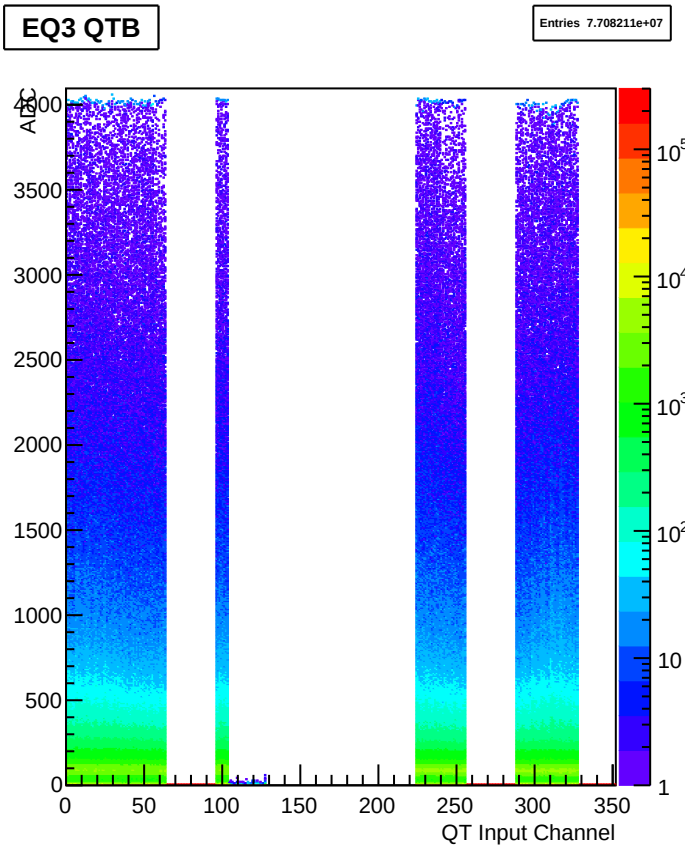

EQ1 QTC
Entries 2.890579e+07
TADC
QT Input Channel

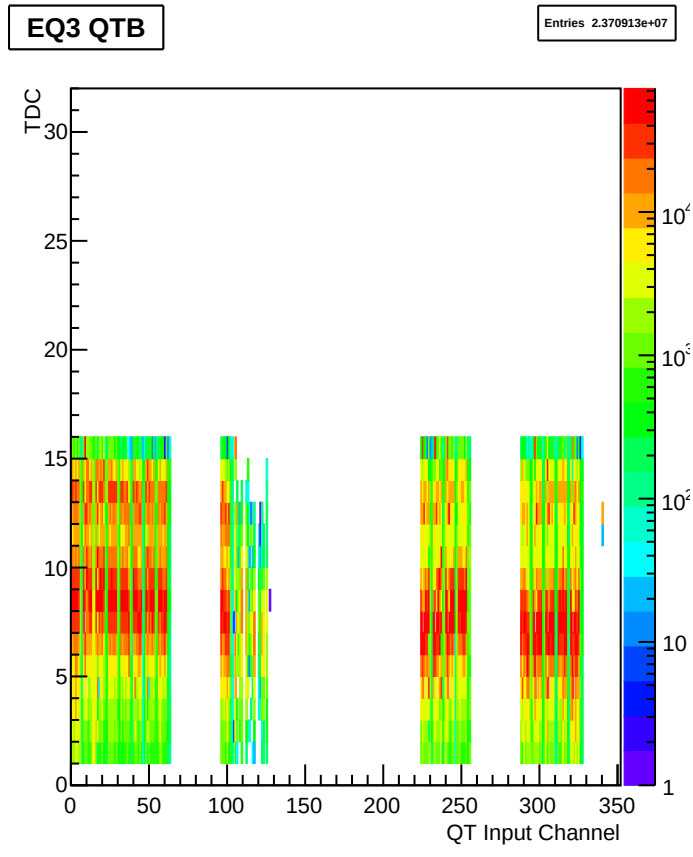

EQ2 QTB
Entries 8.671738e+07
ADC
QT Input Channel

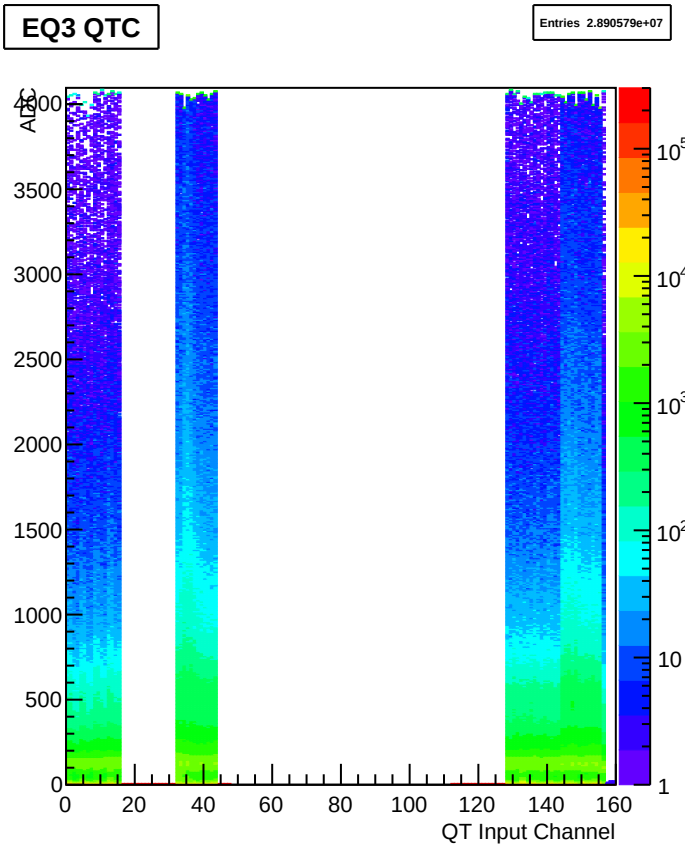

EQ2 QTB
Entries 2.937173e+07
TDC
QT Input Channel

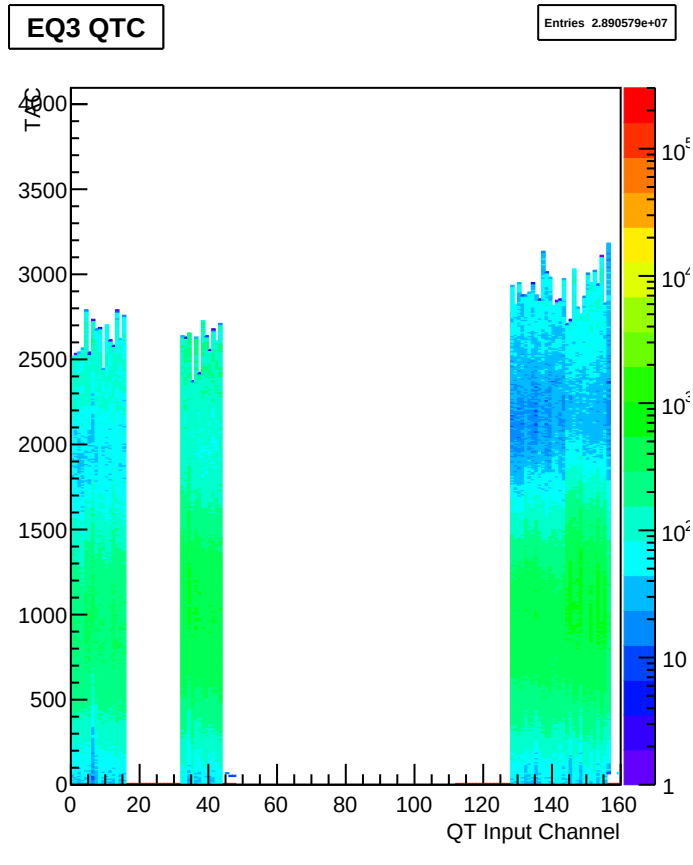

EQ2 QTC
Entries 2.890579e+07
ADC
QT Input Channel

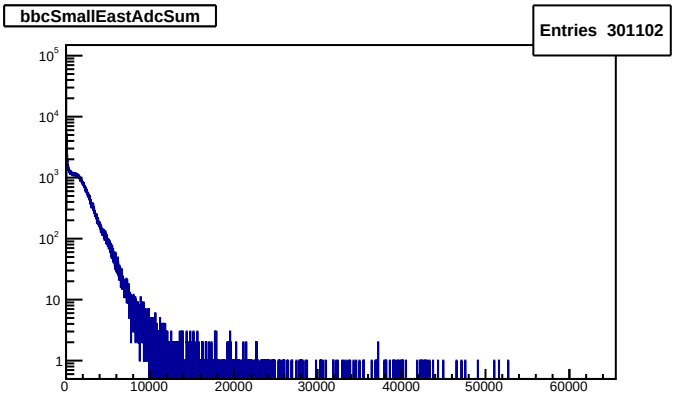

EQ2 QTC
Entries 2.890579e+07
TADC
QT Input Channel

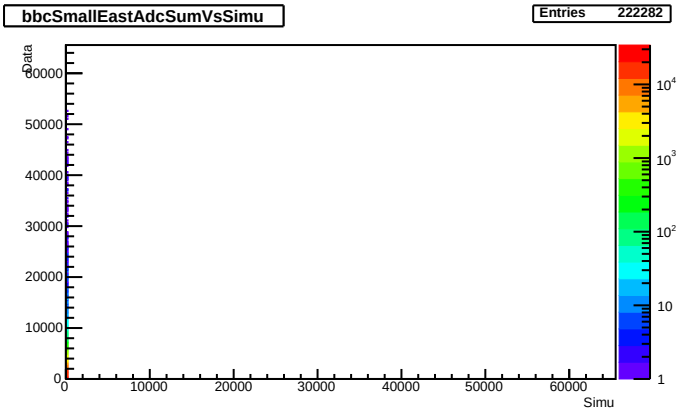

EQ3 QTB
Entries 7.708211e+07
ADC
QT Input Channel

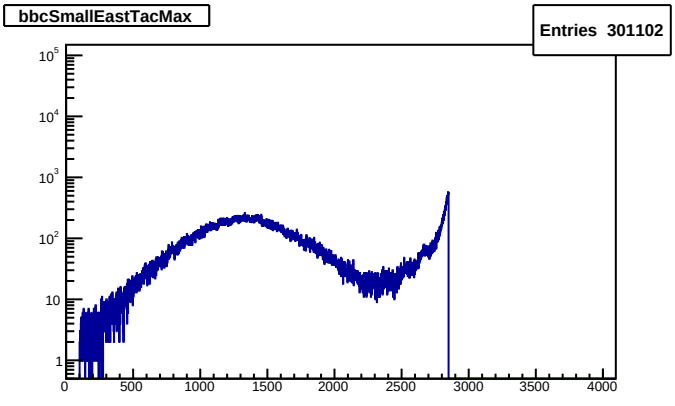

EQ3 QTB
Entries 2.370913e+07
TDC
QT Input Channel

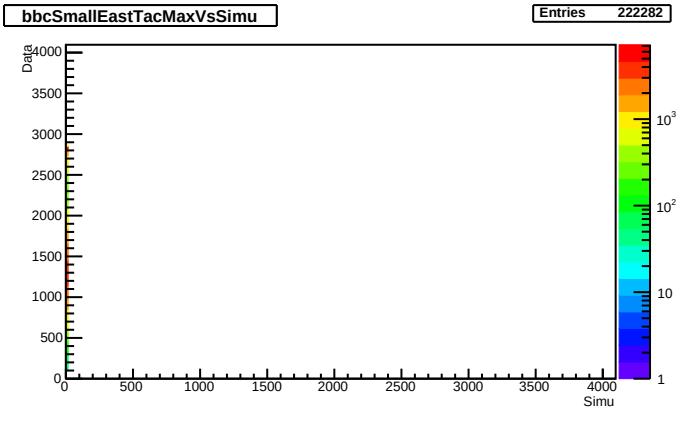

EQ3 QTC
Entries 2.890579e+07
ADC
QT Input Channel


EQ3 QTC
Entries 2.890579e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 301102


bbcSmallEastAdcSumVsSimu
Entries 222282
Data
Simu


bbcSmallEastTacMax
Entries 301102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Entries 222282
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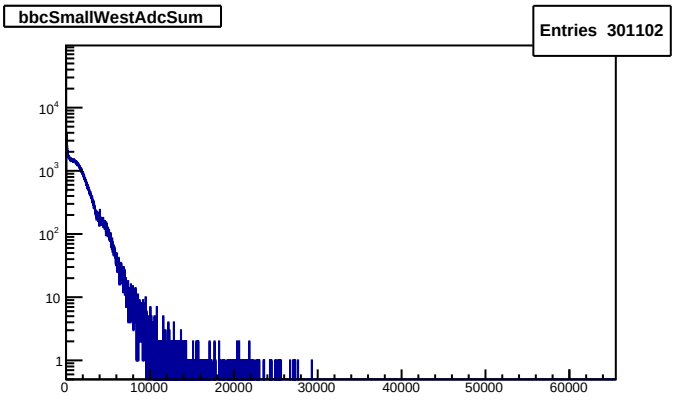
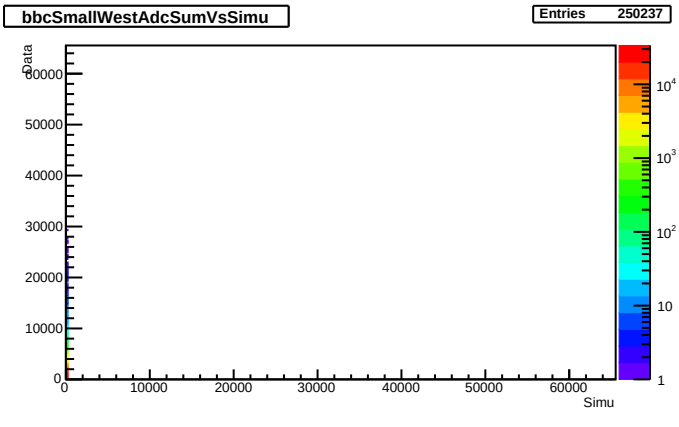

bbcSmallWestAdcSum
Entries 301102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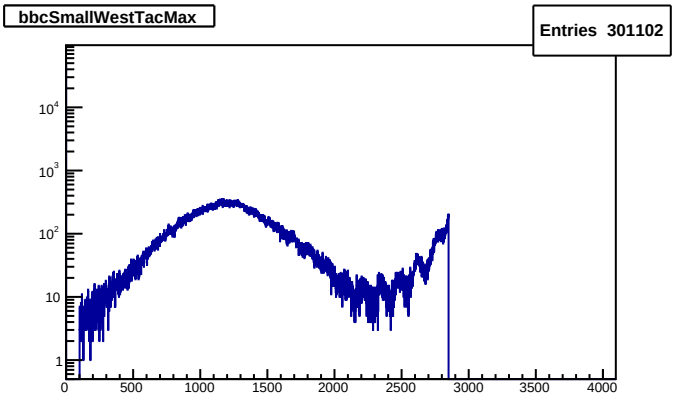
Entries 250237
Data
Simu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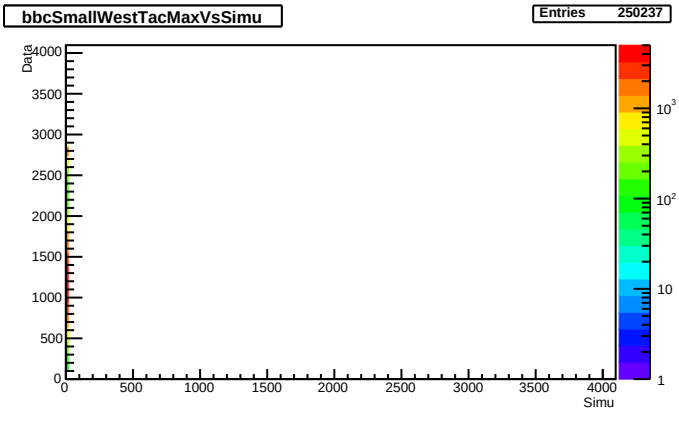
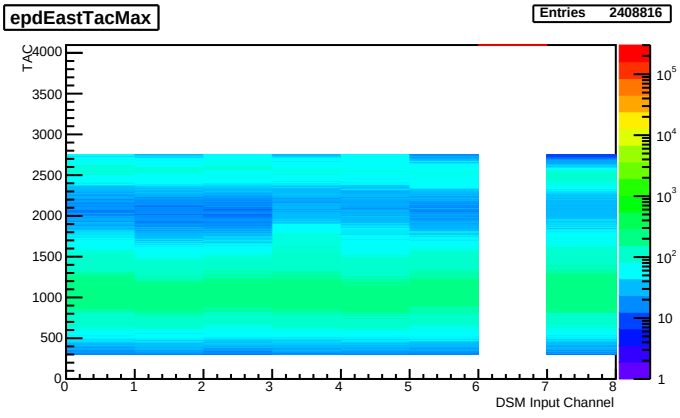
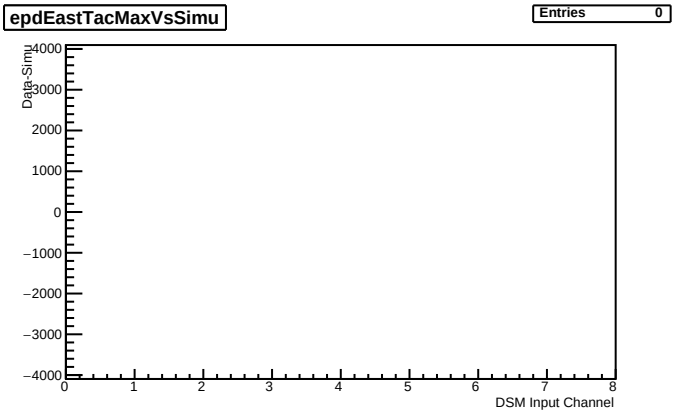
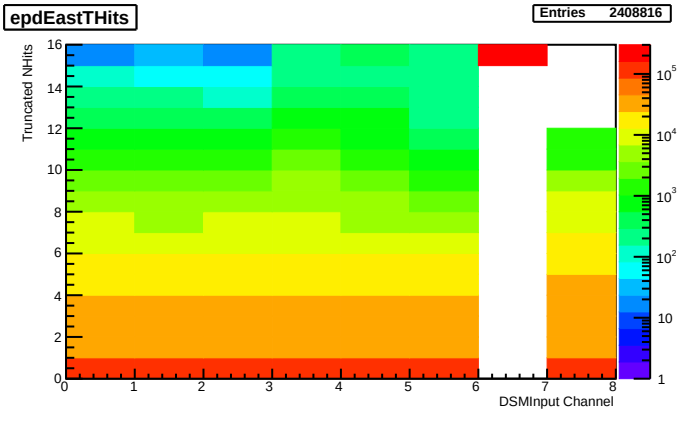

bbcSmallWestTacMaxVsSimu
Entries 250237
Data
Simu


epdEastTacMax
Entries 2408816
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel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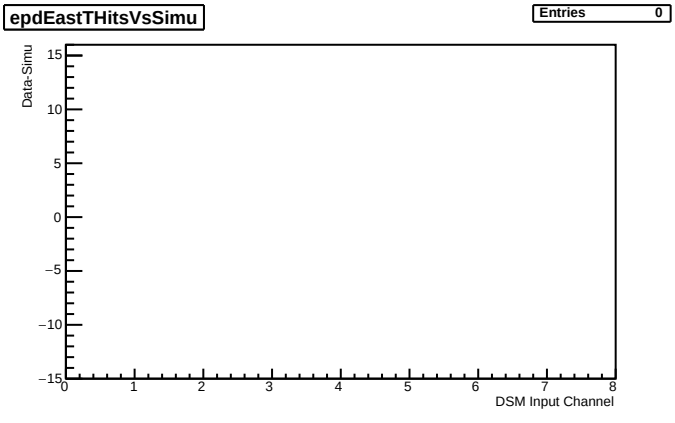
Entries 2408816
Truncated NHits
DSMInput Channel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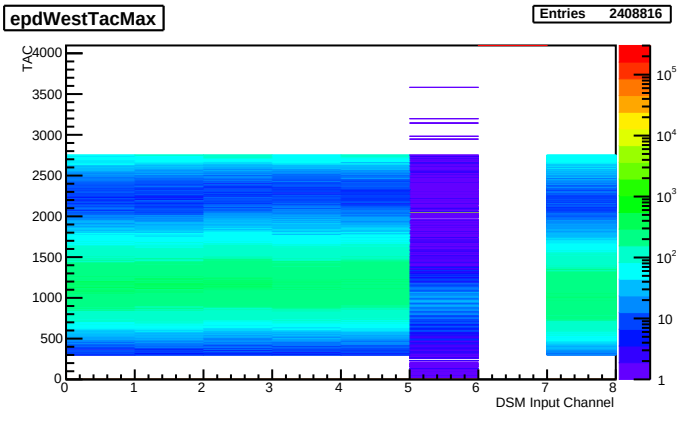
Data-Simu
DSM Input Channel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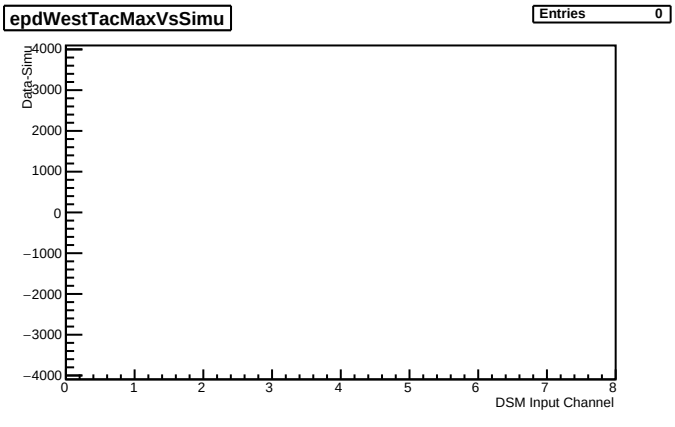
Entries 2408816
TAC
DSM Input Channel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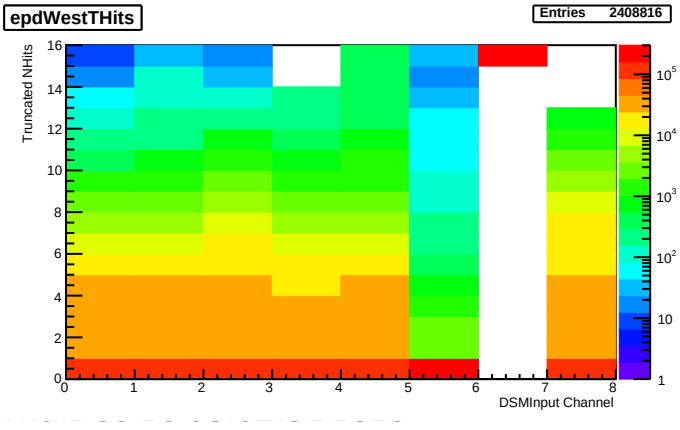
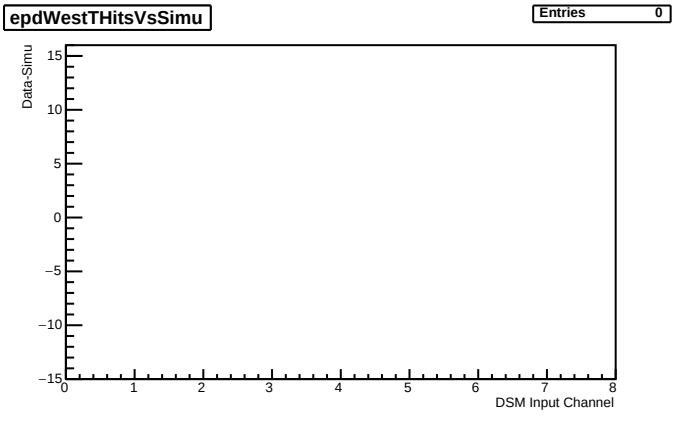
DSM Input Channel


epdWestTHits
Entries 2408816
Truncated NHits
DSMInput Channel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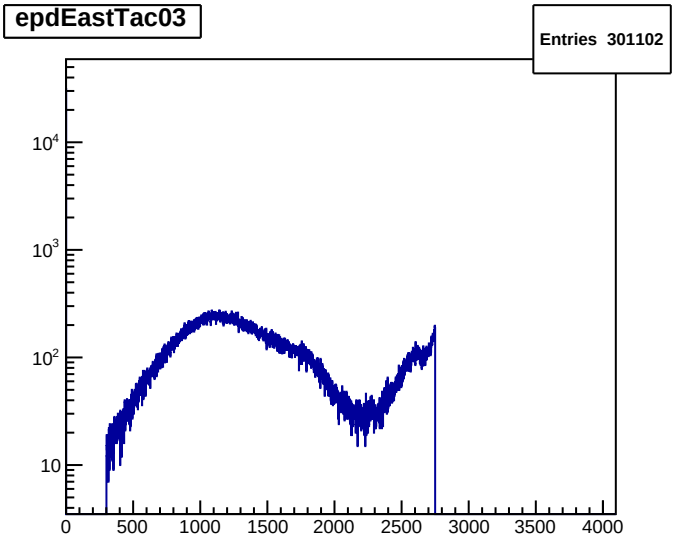
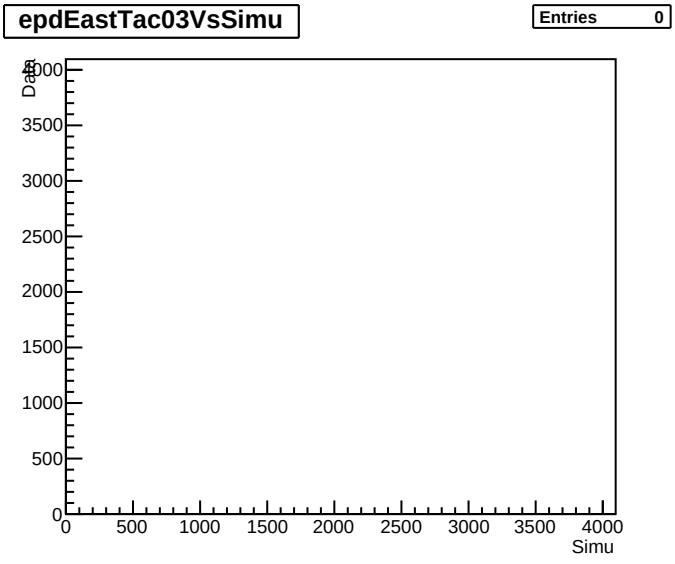
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 301102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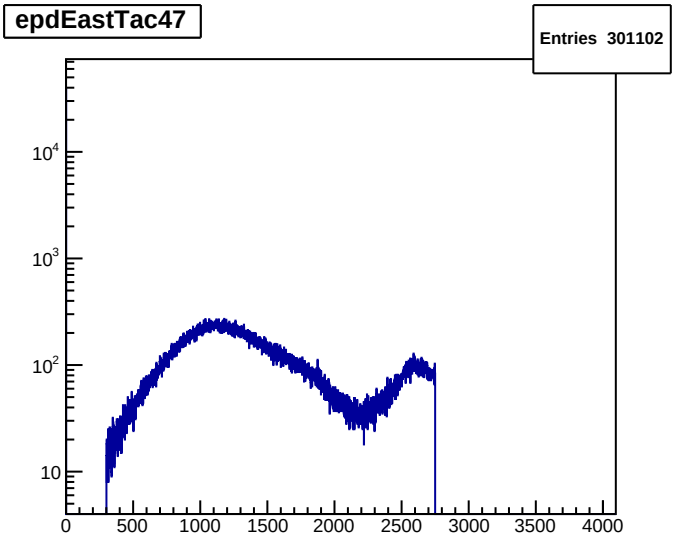
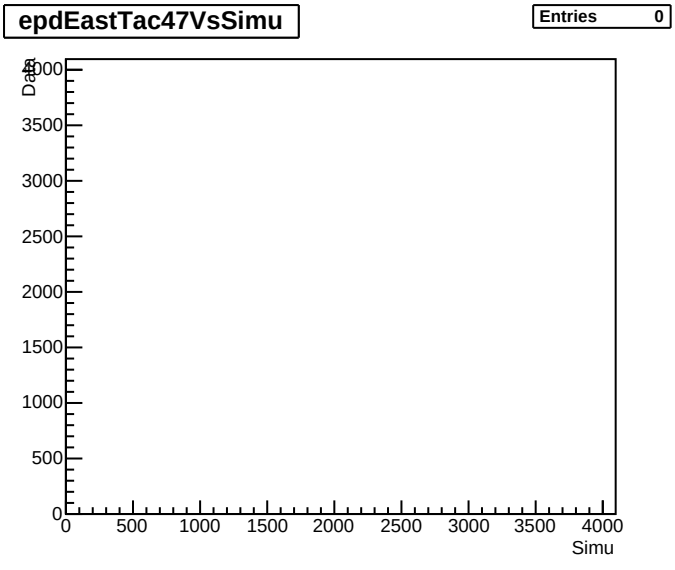
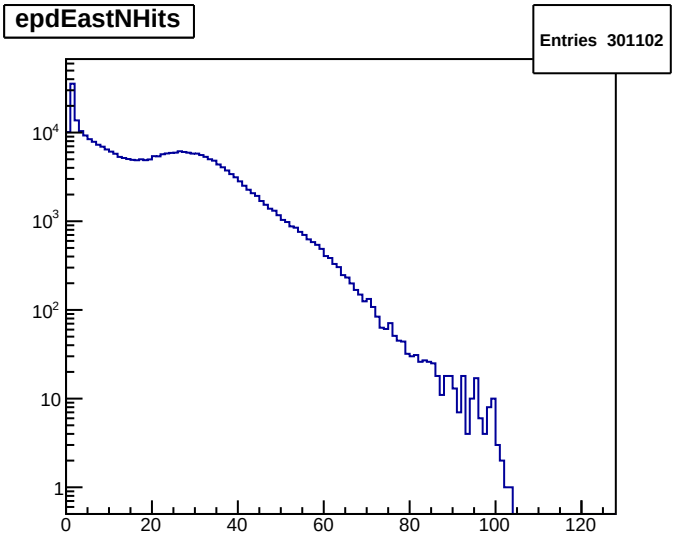
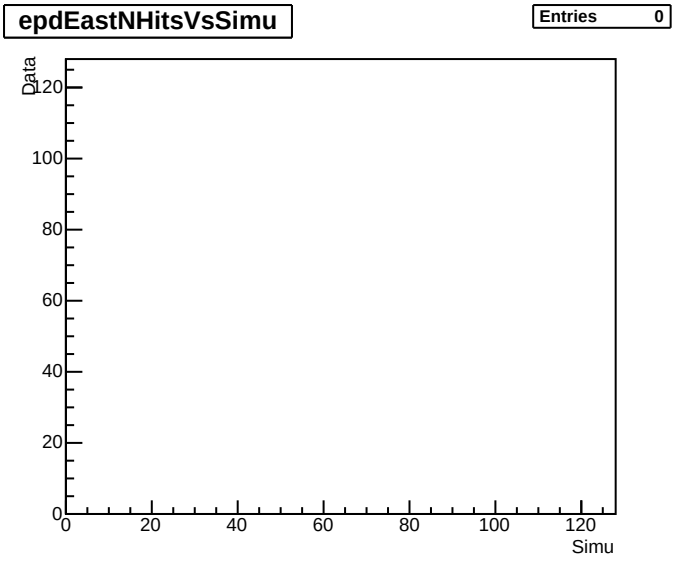
Entries 0
Data
Simu


epdEastTac47
Entries 301102


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 301102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Entries 0
Data
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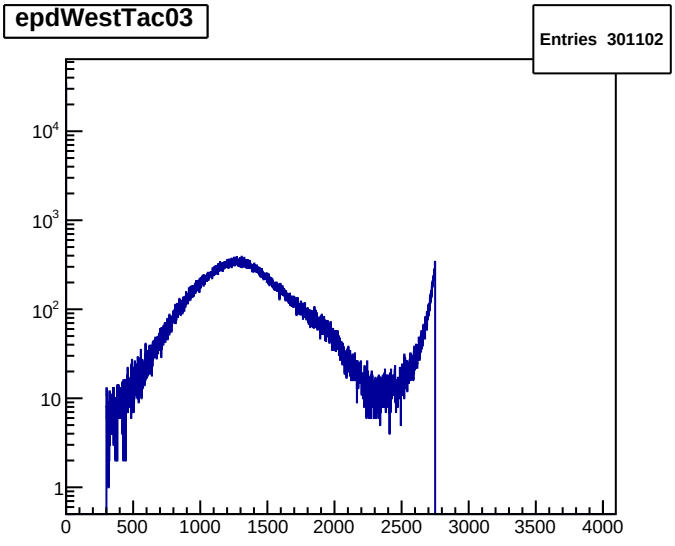
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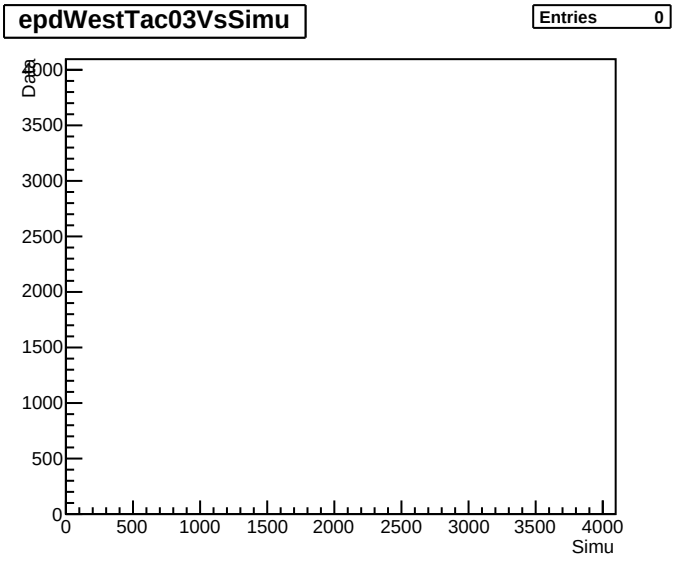
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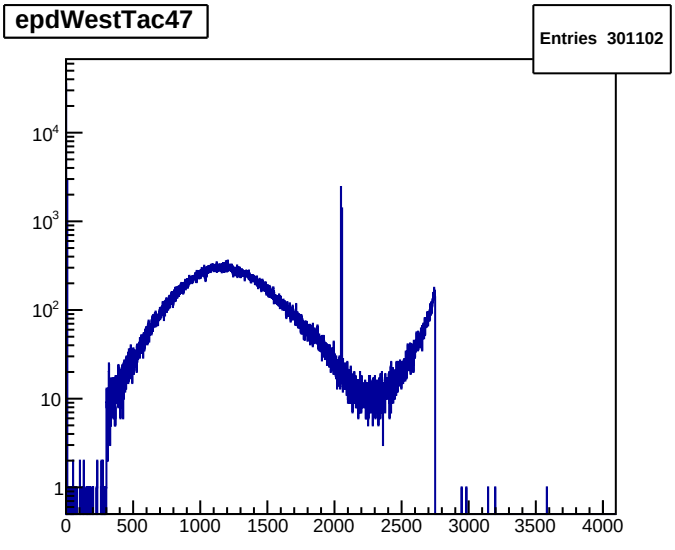
Entries 0
Data
Simu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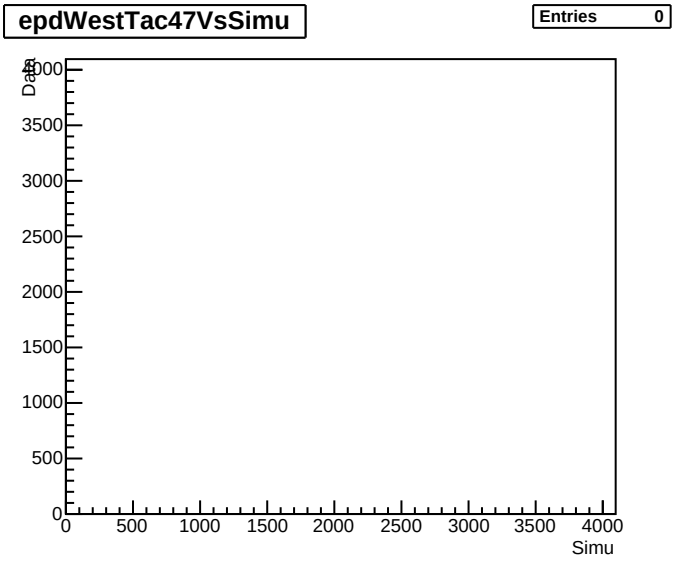
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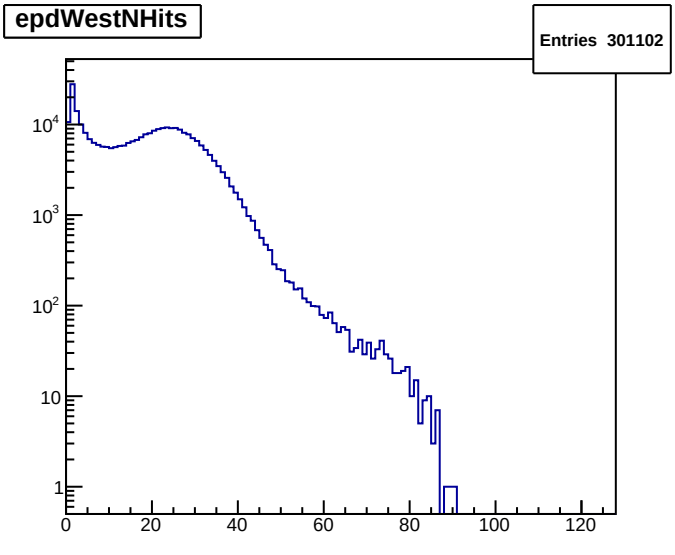
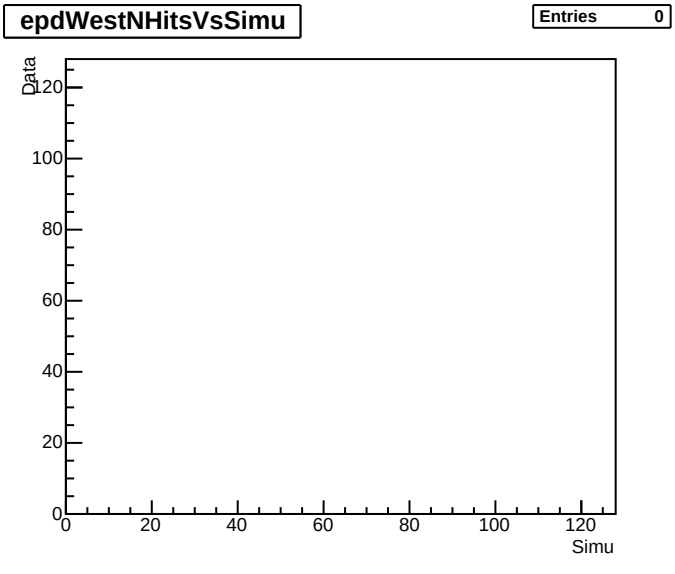
Entries 0
Data
Simu


epdWestNHits
Entries 301102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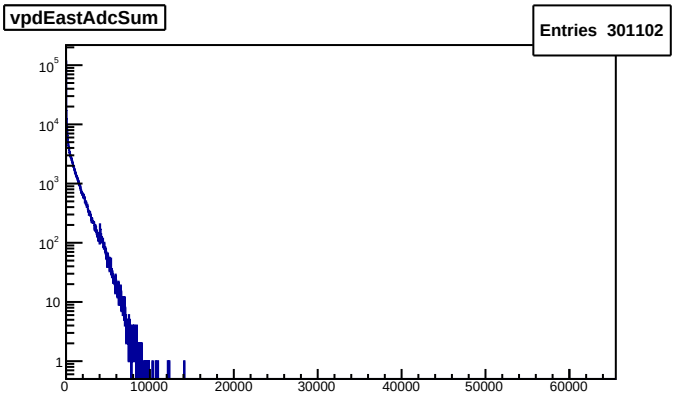
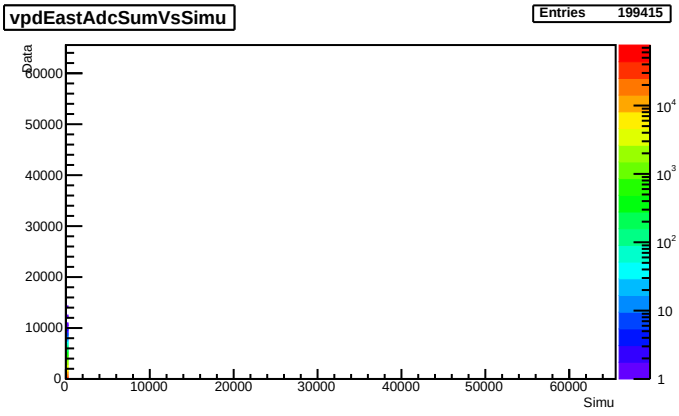
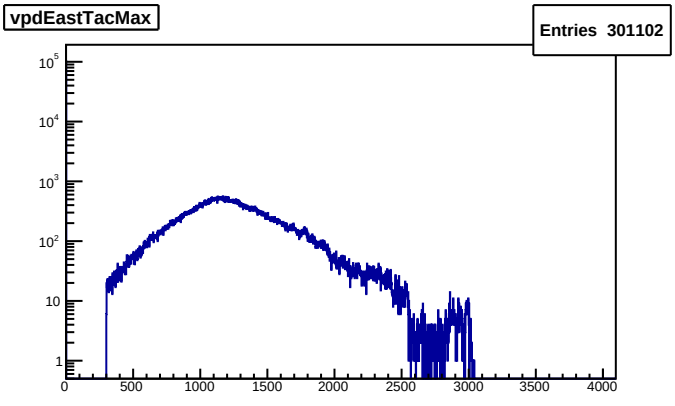
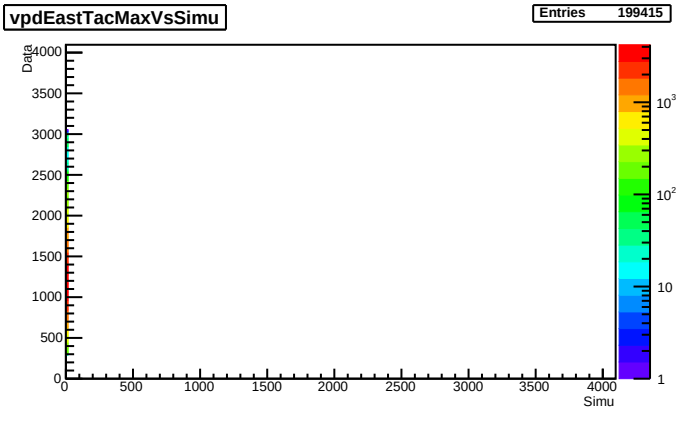
Entries 0
Data
Simu


vpdEastAdcSum
Entries 301102


vpdEastAdcSumVsSimu
Entries 199415
Data
Simu


vpdEastTacMax
Entries 301102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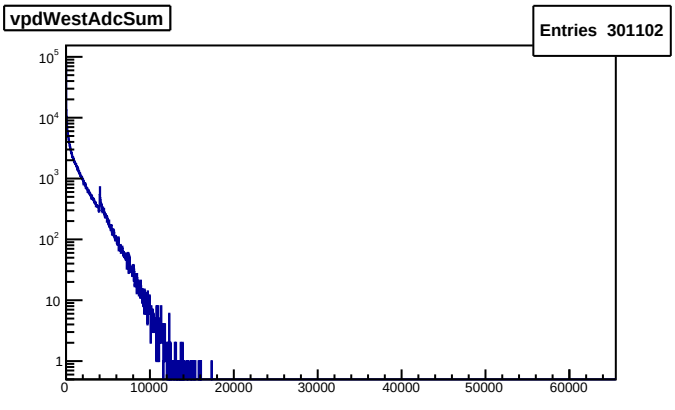
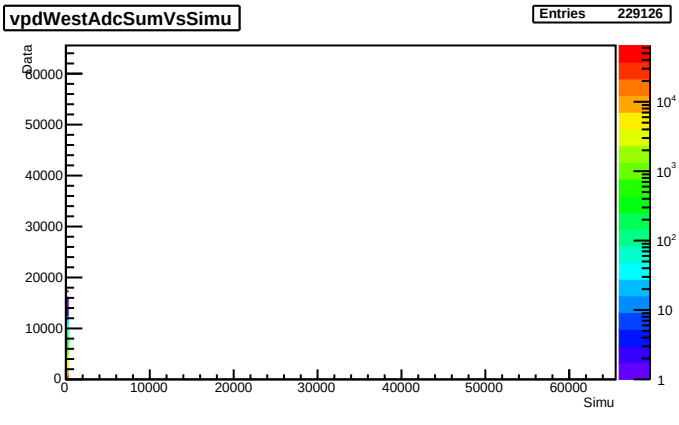
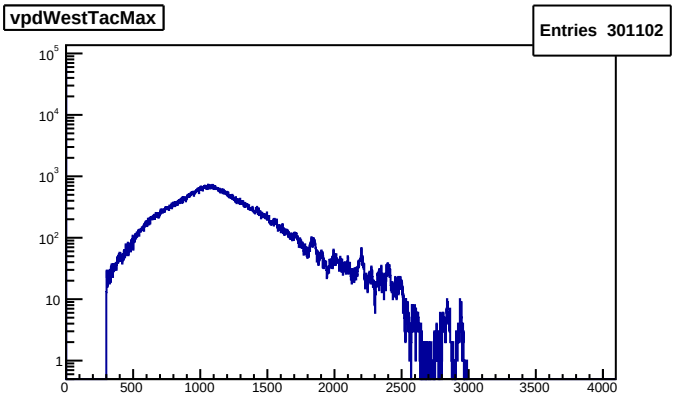
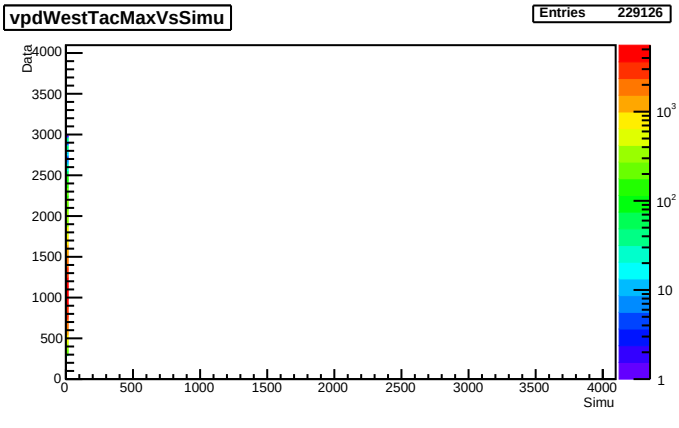
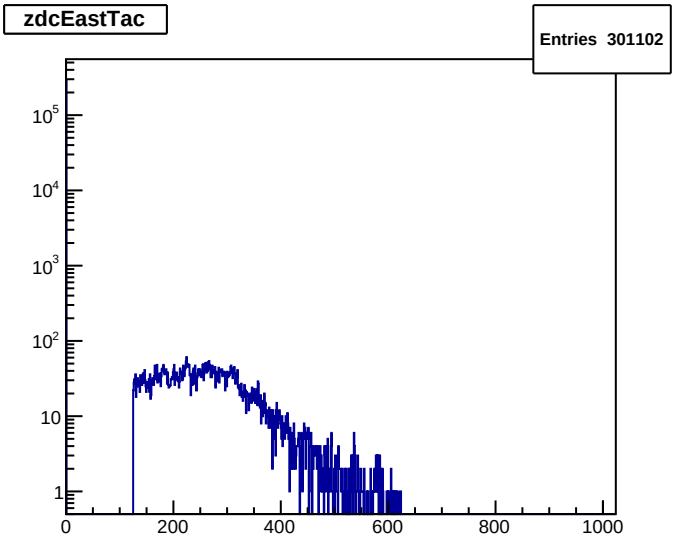
Entries 199415
Data
Simu

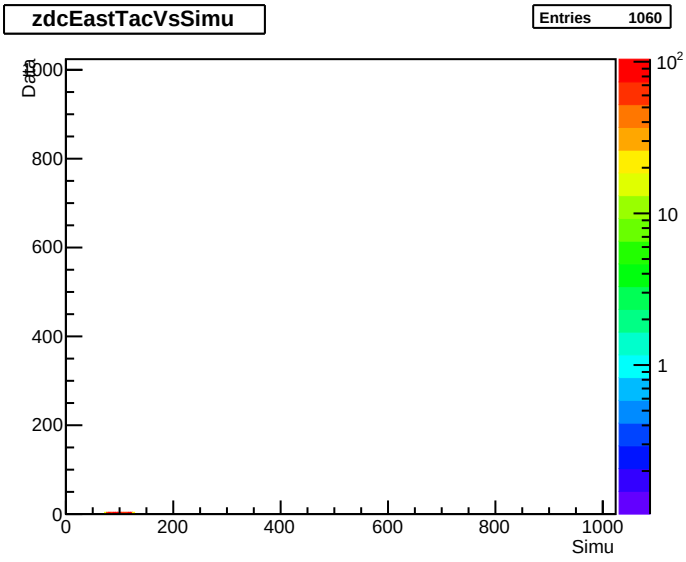

vpdWestAdcSum
Entries 301102

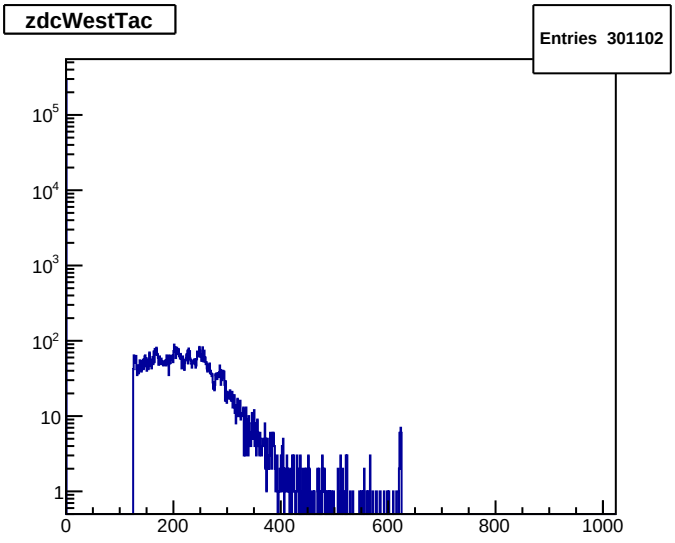

vpdWestAdcSumVsSimu
Entries 229126
Data
Simu

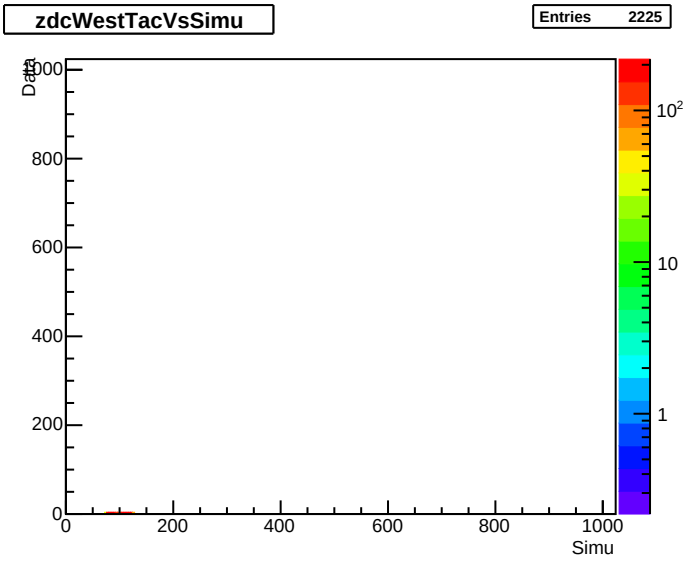

vpdWestTacMax
Entries 301102

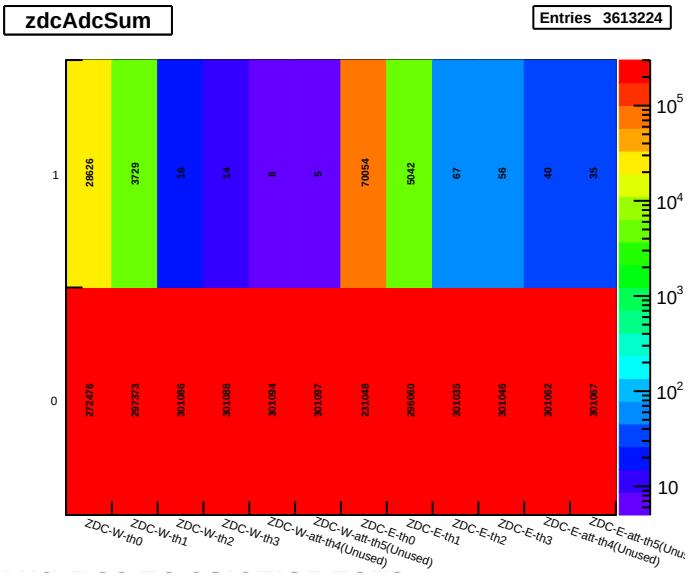

vpdWestTacMaxVsSimu
Entries 229126
Data
Simu

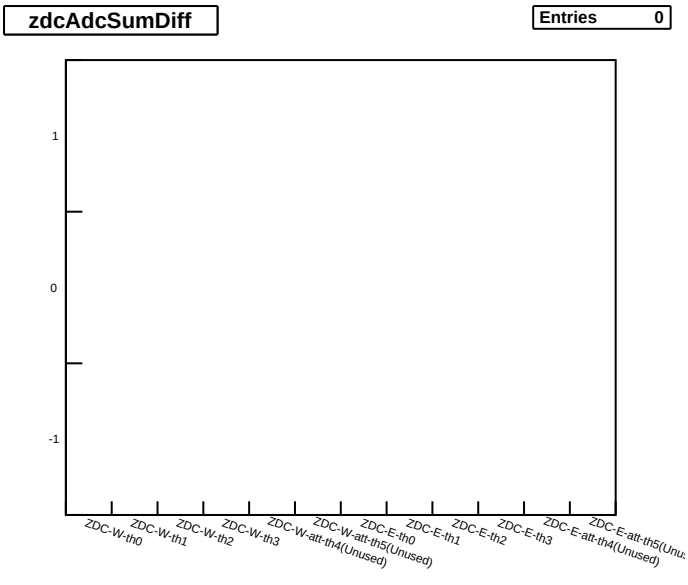

zdcEastTac
Entries 301102

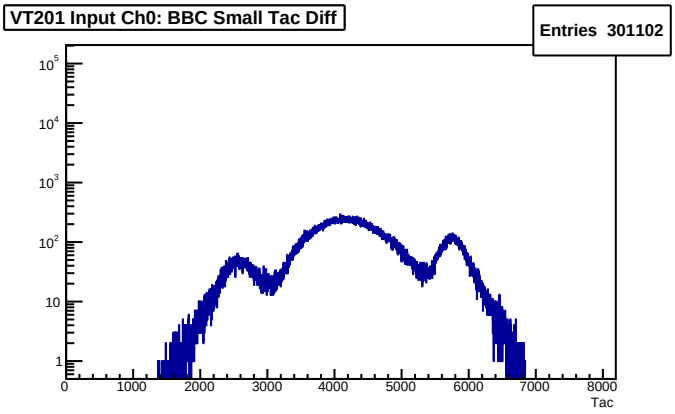

zdcEastTacVsSimu
Entries 1060
Data
Simu

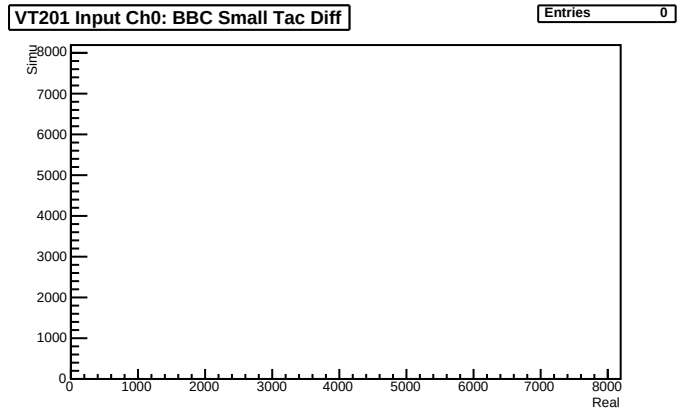

zdcWestTac
Entries 301102

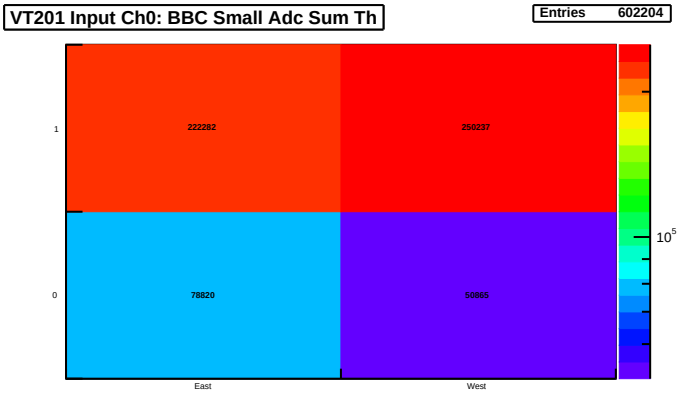

zdcWestTacVsSimu
Entries 2225
Data
Simu

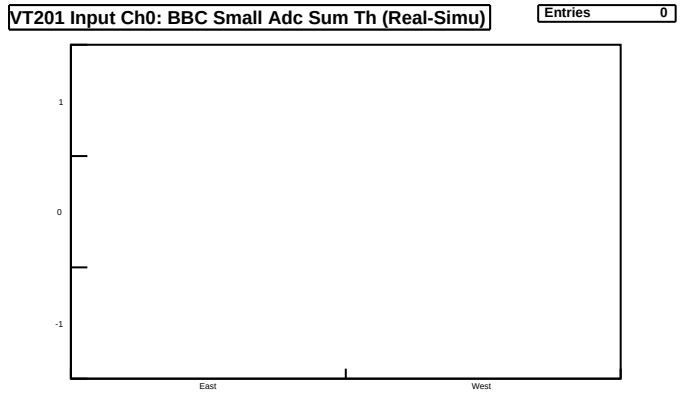

zdcAdcSum
Entries 3613224
28626
3729
16
14
8
5
70054
5042
67
56
40
35
272476
297373
301086
301088
301094
301097
231048
296660
301035
301046
301062
301087
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

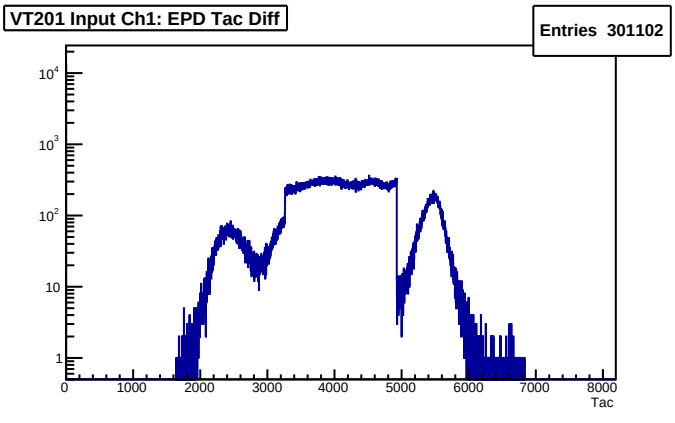

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

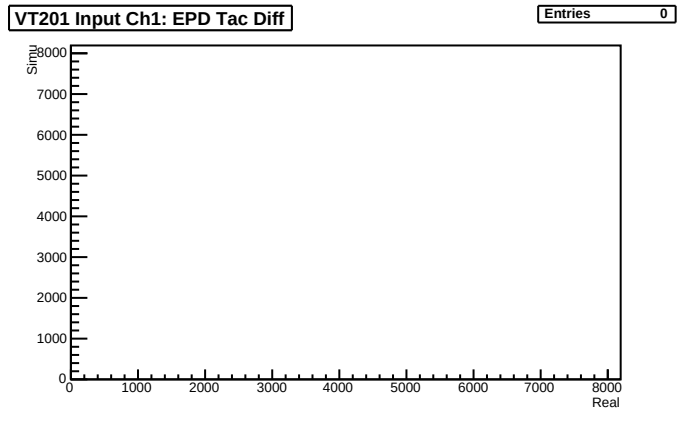

VT201 Input Ch0: BBC Small Tac Diff
Entries 301102
Tac

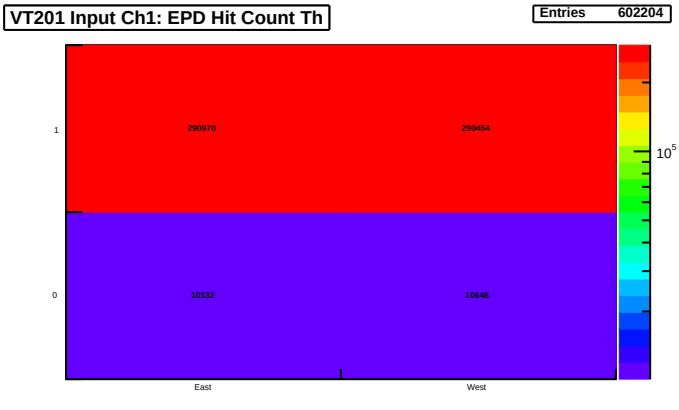

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

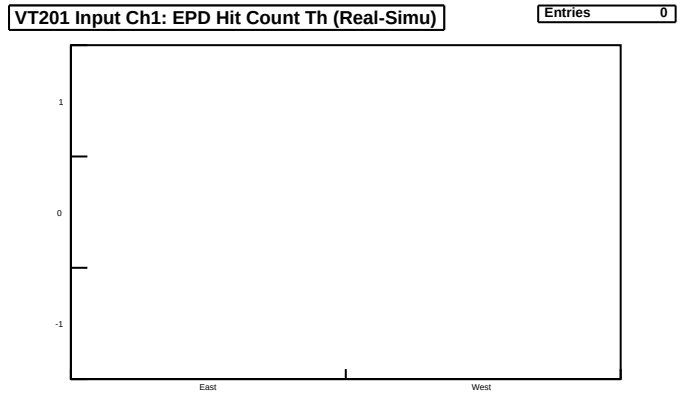

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 602204
222282
250237
78820
50865
East
West

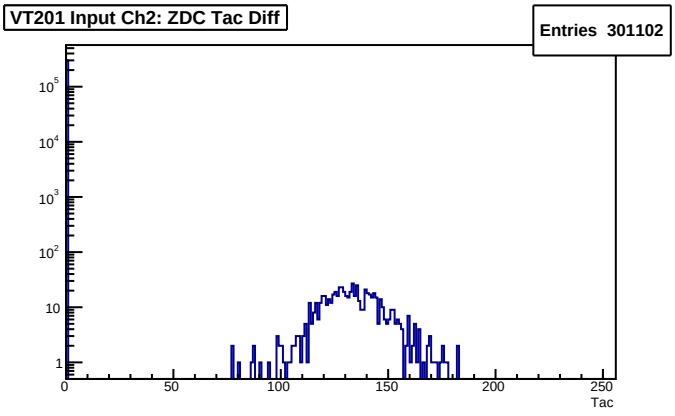

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

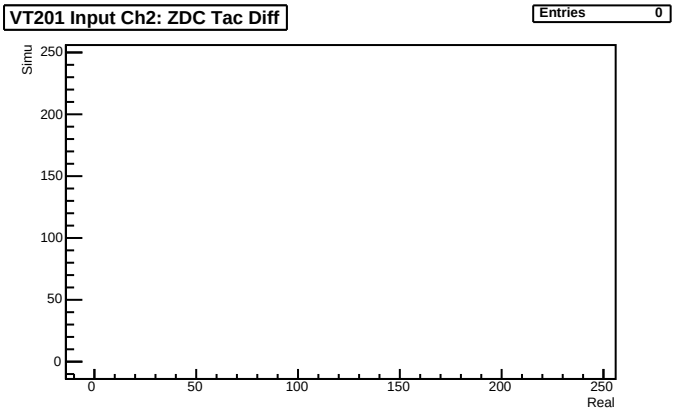

VT201 Input Ch1: EPD Tac Diff
Entries 301102
Tac

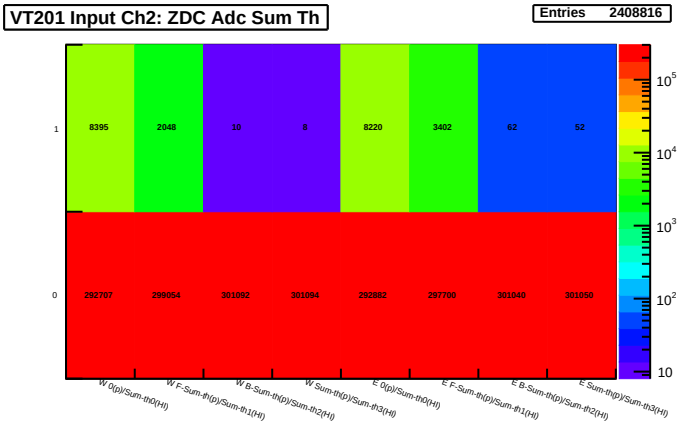

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

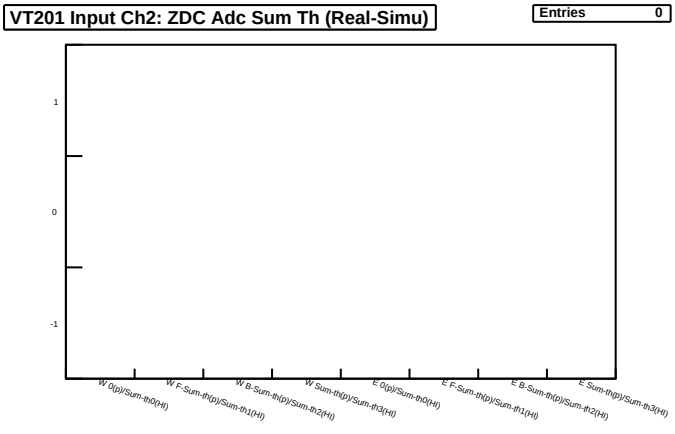

VT201 Input Ch1: EPD Hit Count Th
Entries 602204
290970
290454
10132
10648
East
West

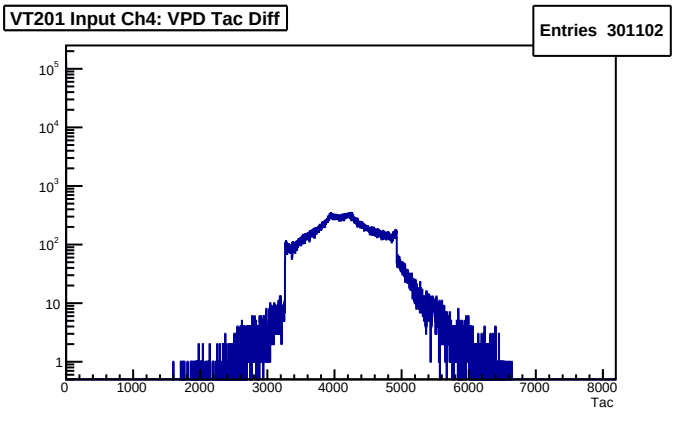

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

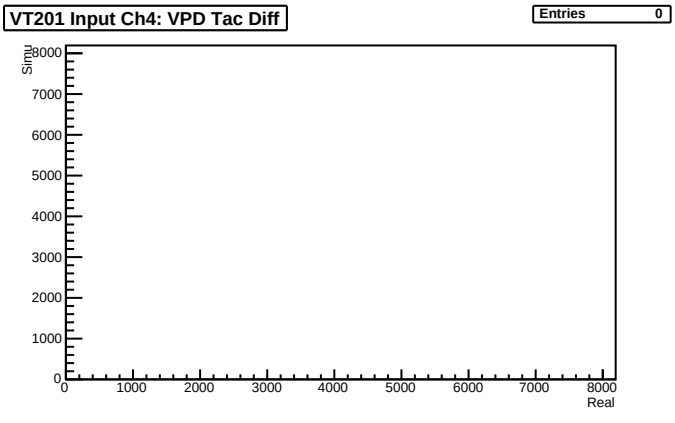

VT201 Input Ch2: ZDC Tac Diff
Entries 301102
Tac

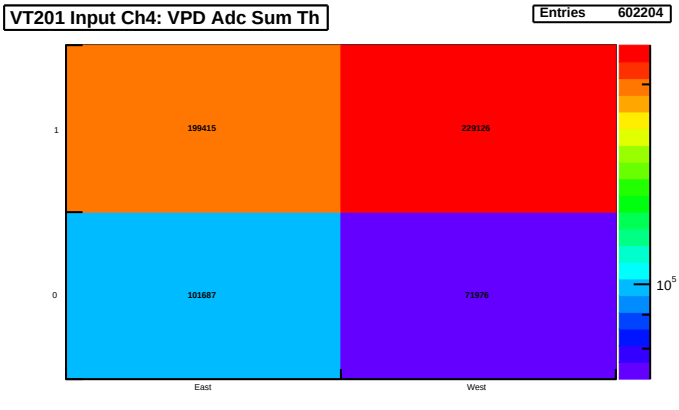

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

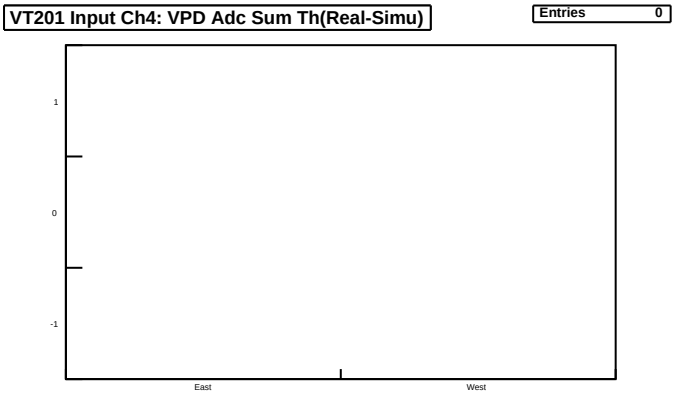

VT201 Input Ch2: ZDC Adc Sum Th
Entries 2408816
8395
2048
10
8
8220
3402
62
52
292707
299054
301092
301094
292882
297700
301040
301050
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

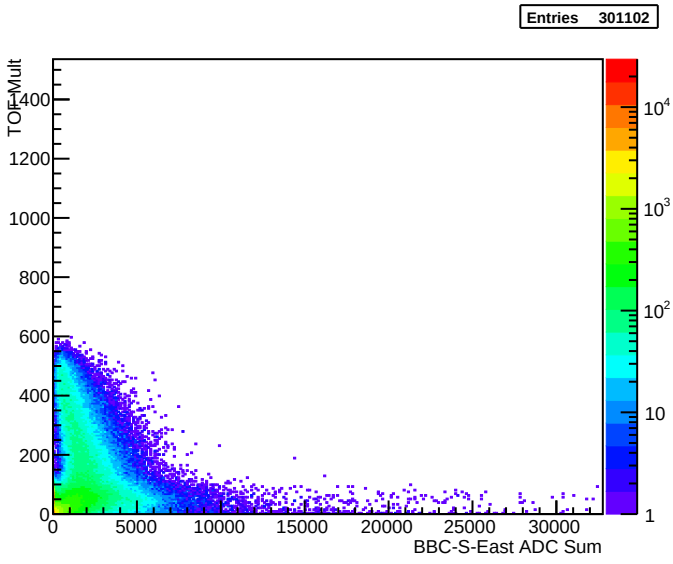

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

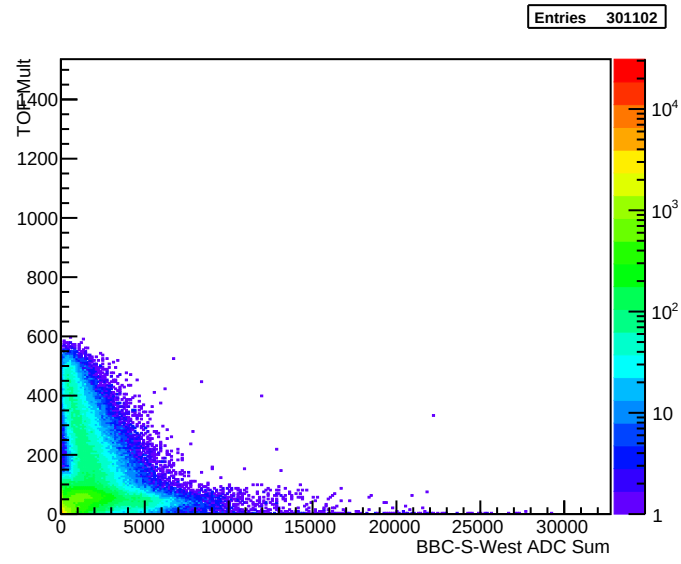

VT201 Input Ch4: VPD Tac Diff
Entries 301102
Tac

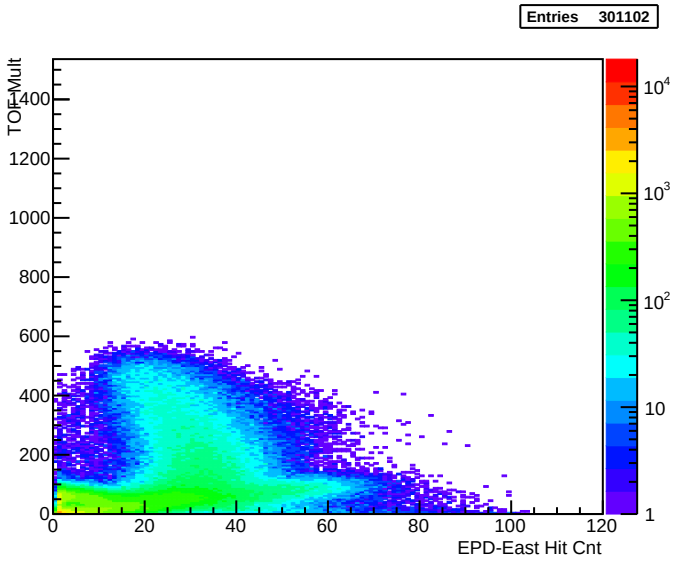

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

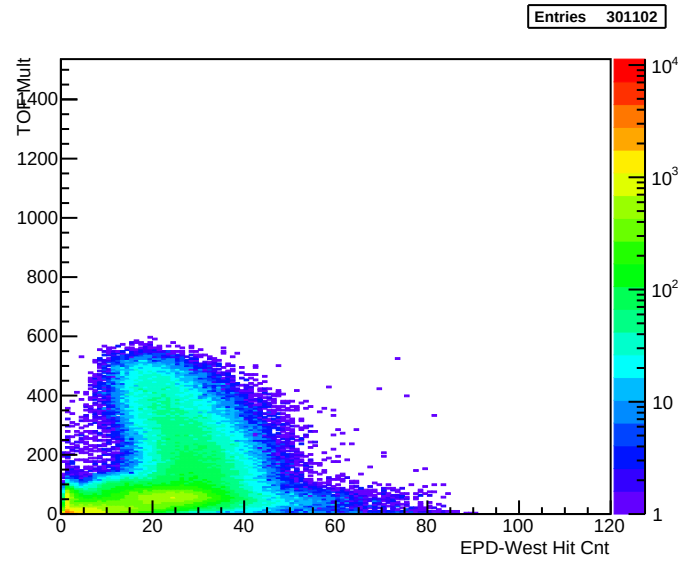

VT201 Input Ch4: VPD Adc Sum Th
Entries 602204
199415
229126
101687
71976
East
West

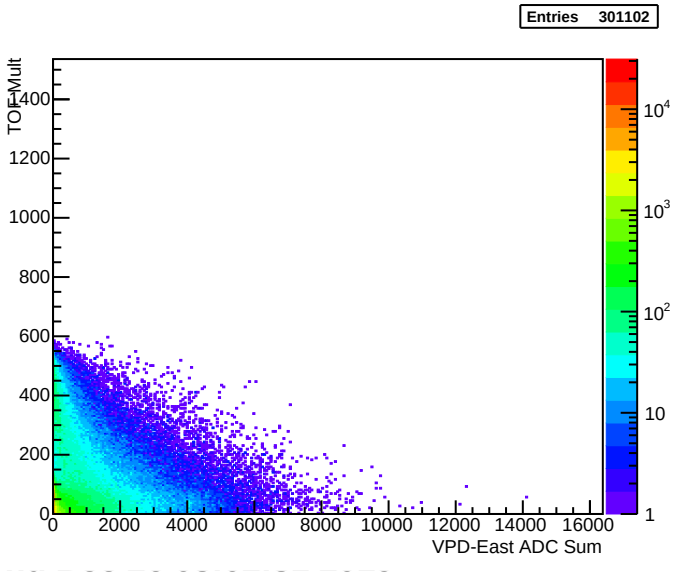

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

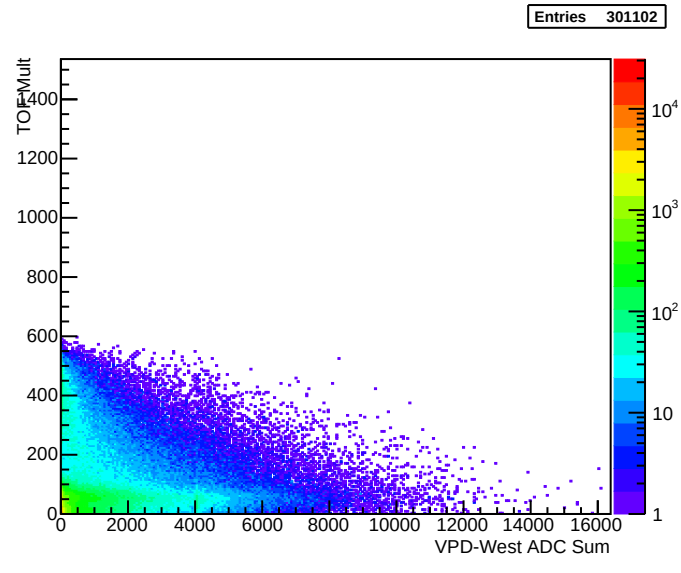

Entries 301102
TOF-Mult
BBC-S-East ADC Sum

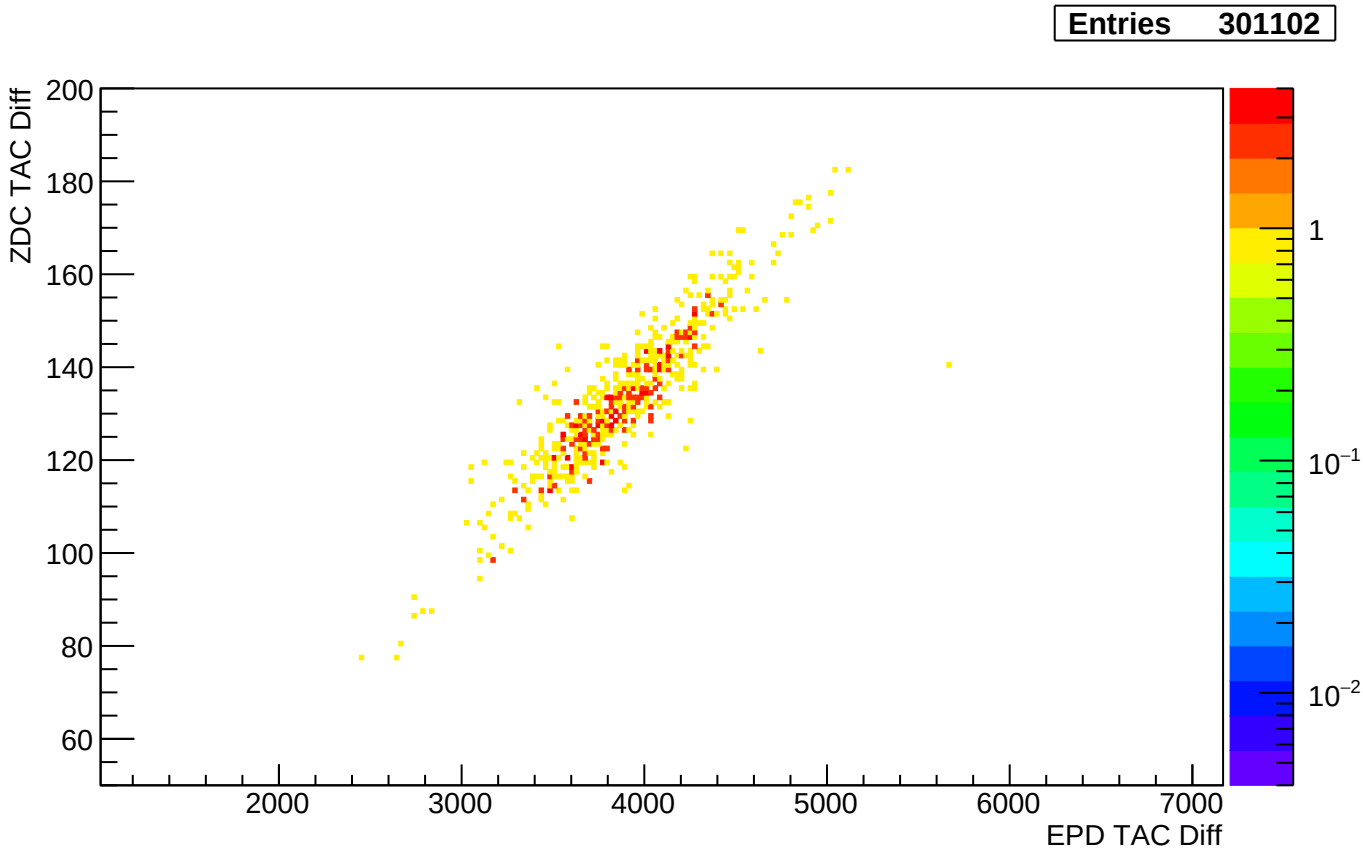

Entries 301102
TOF-Mult
BBC-S-West ADC Sum

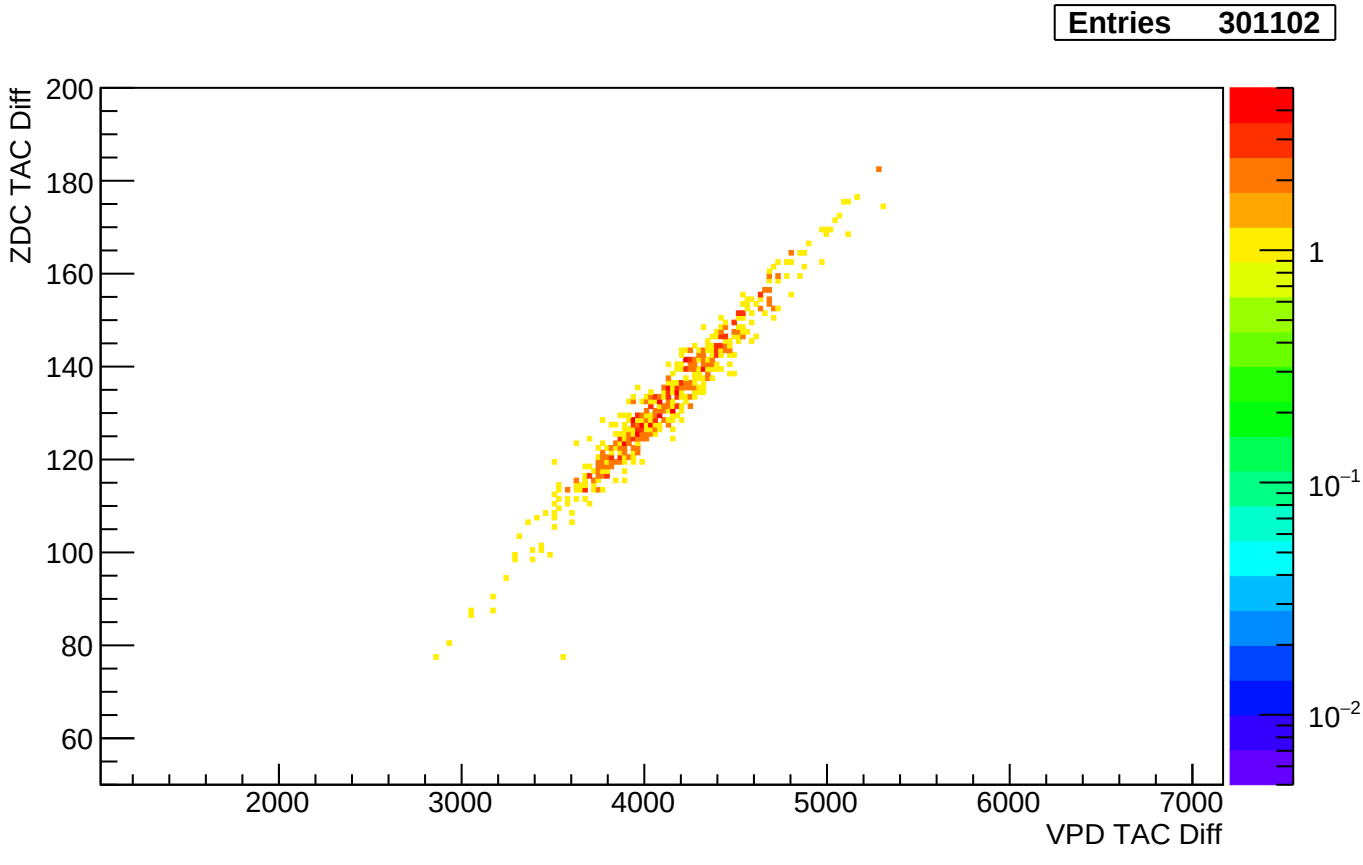

Entries 301102
TOF-Mult
EPD-East Hit Cnt

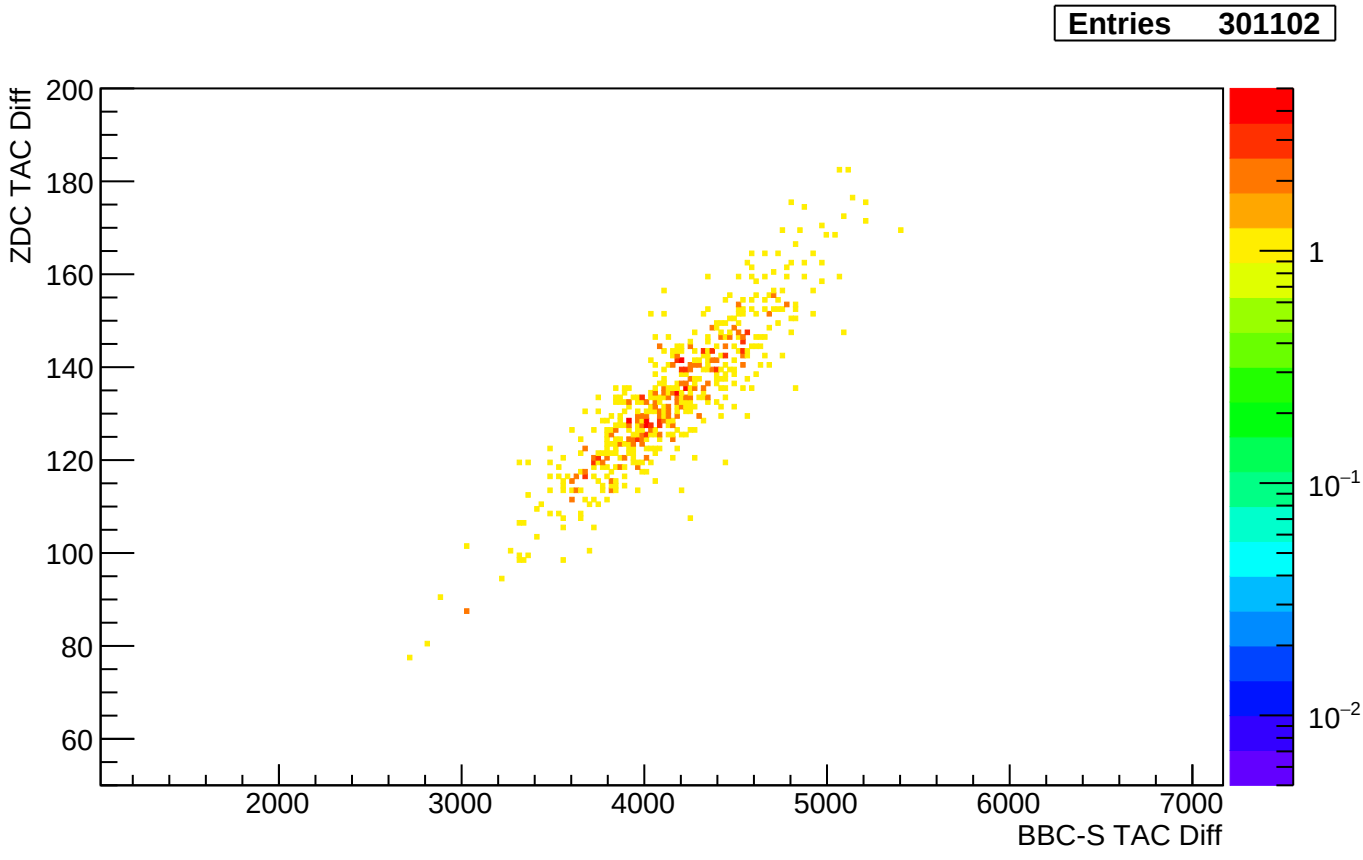

Entries 301102
TOF-Mult
EPD-West Hit Cnt

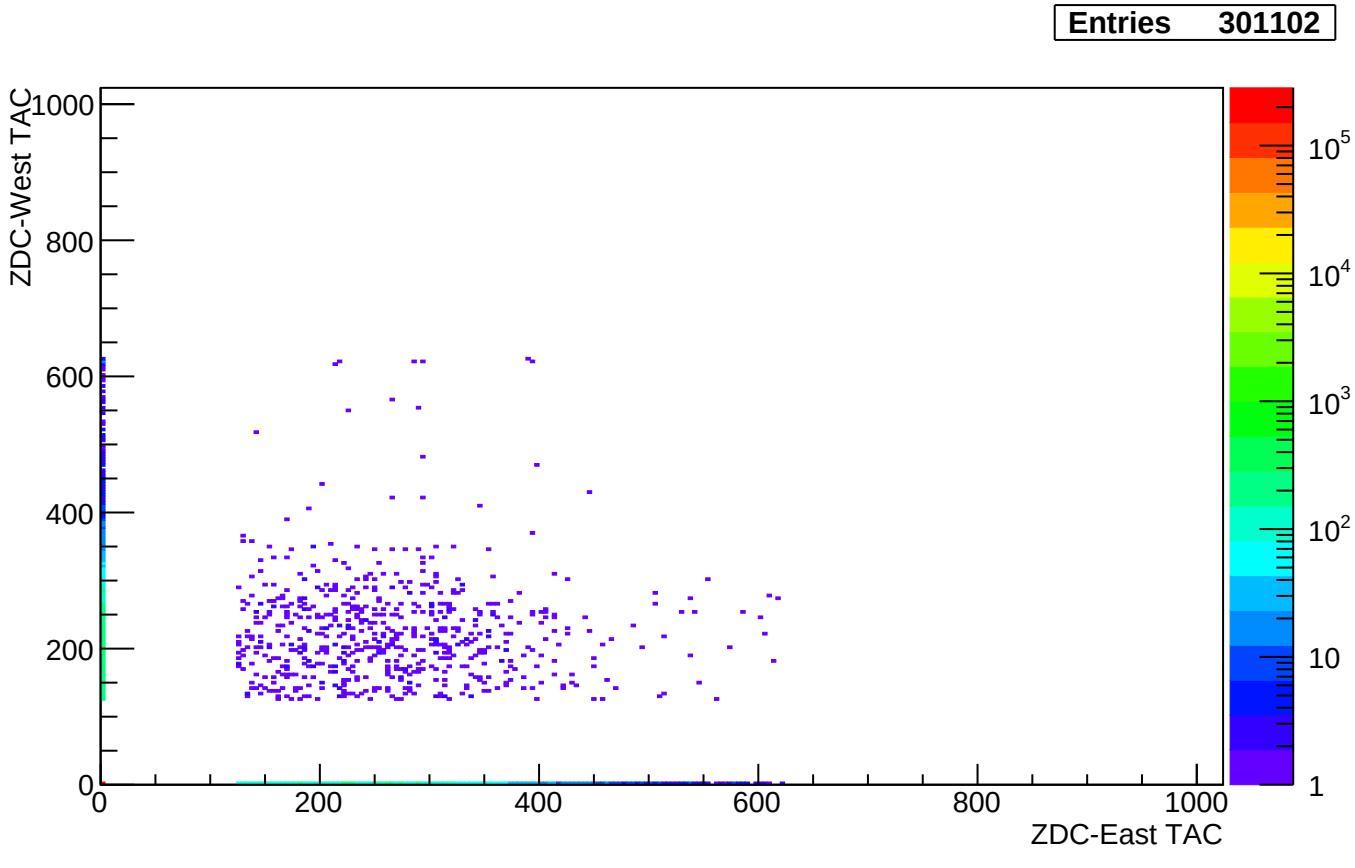

Entries 301102
TOF-Mult
VPD-East ADC Sum

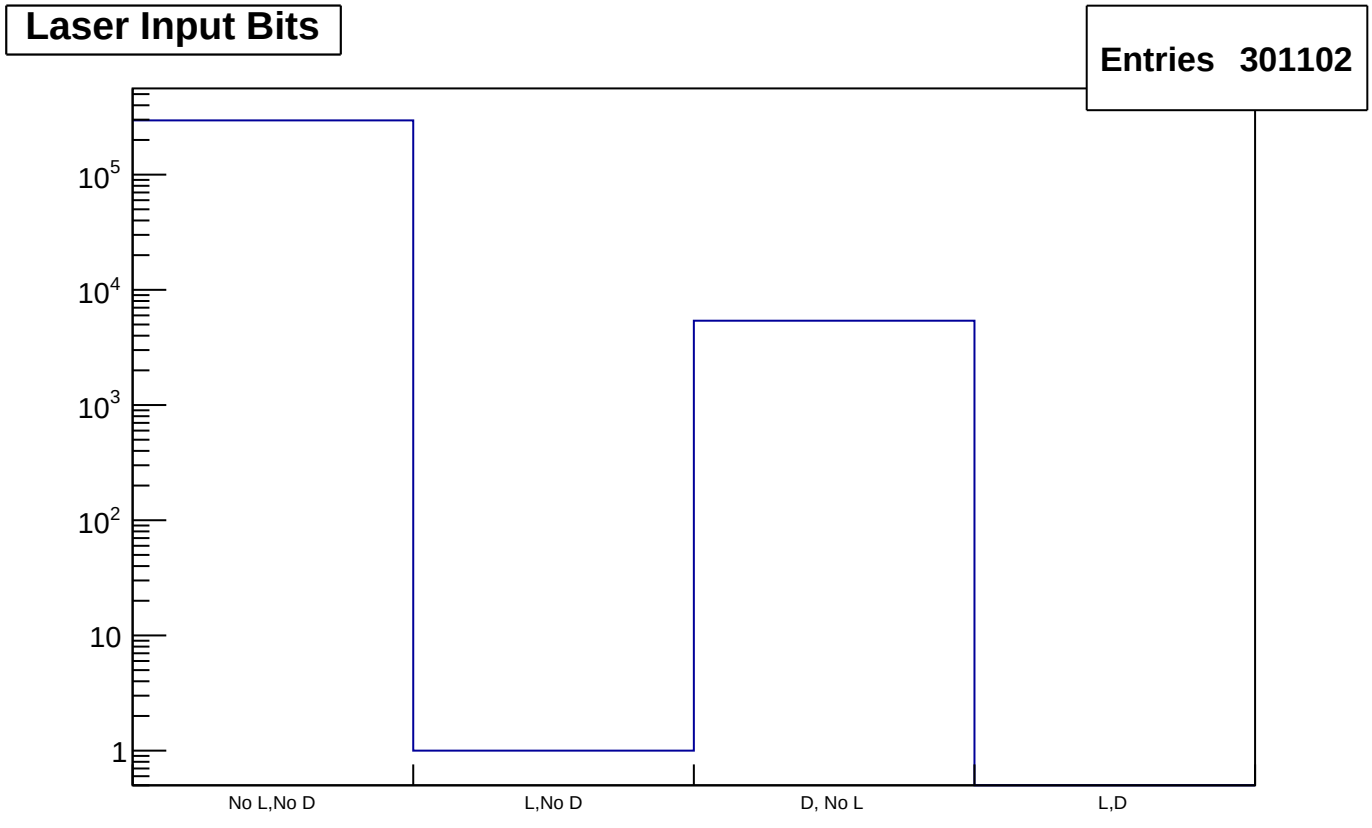

Entries 301102
TOF-Mult
VPD-West ADC Sum

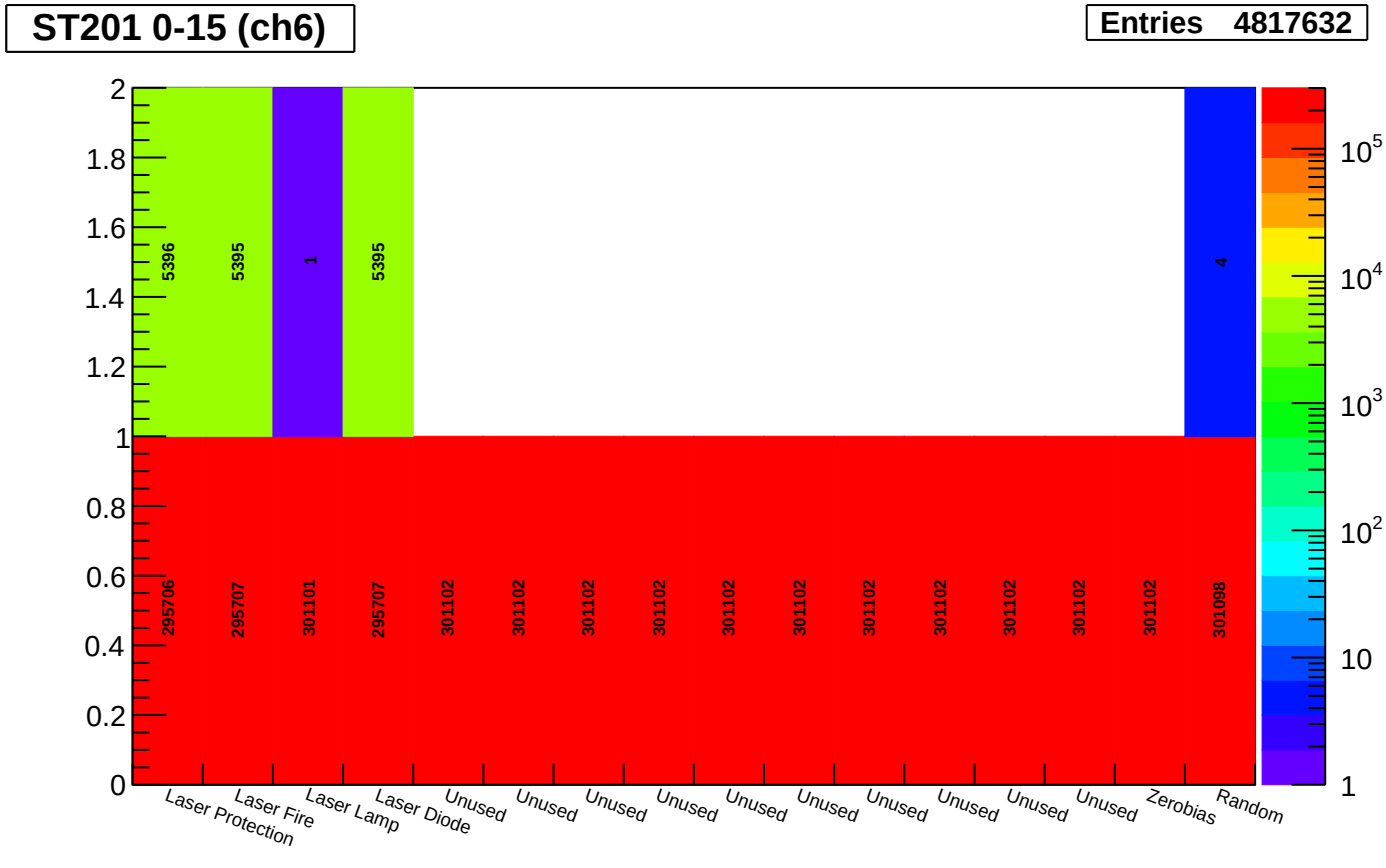

Entries 301102
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

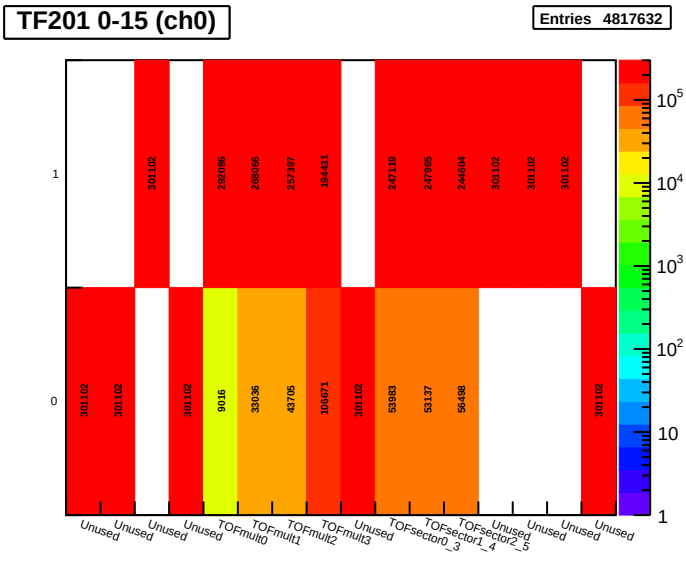

Entries 301102
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

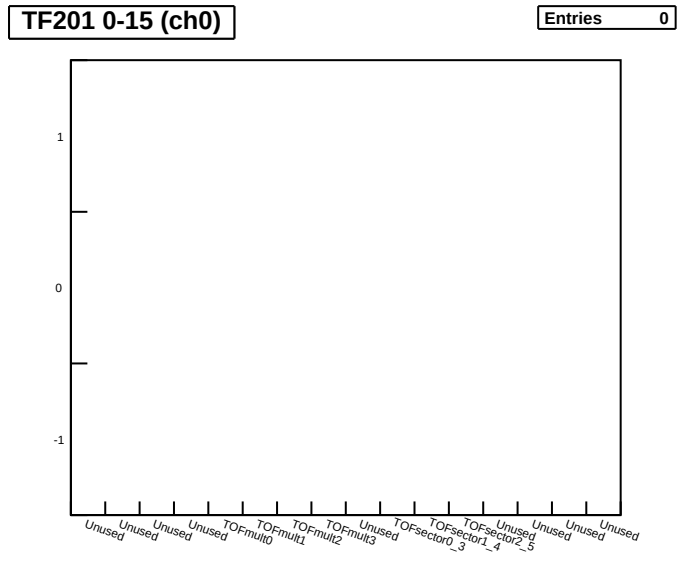

Entries 301102
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

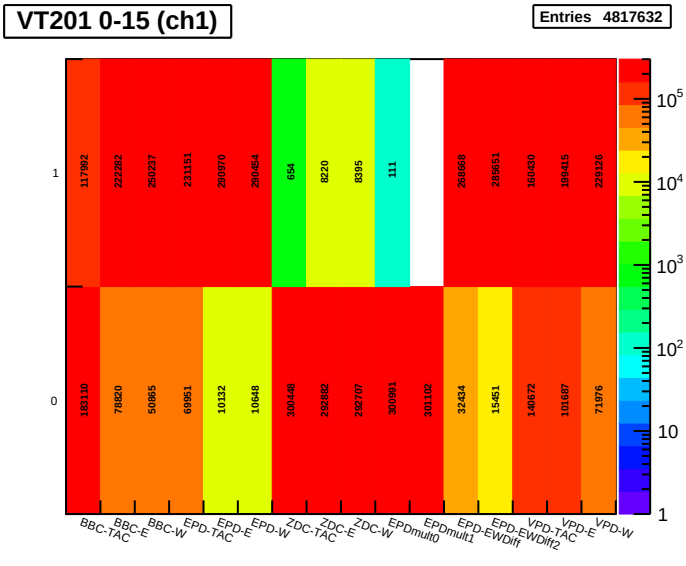

Entries 301102
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

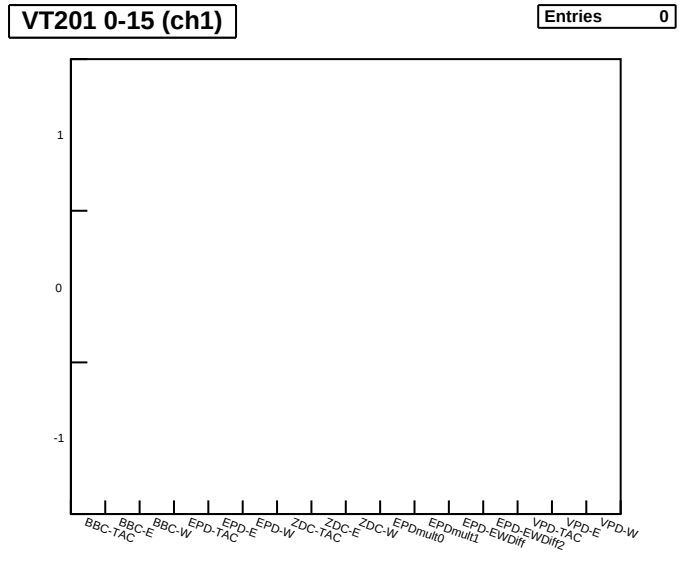

Laser Input Bits
Entries 301102
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

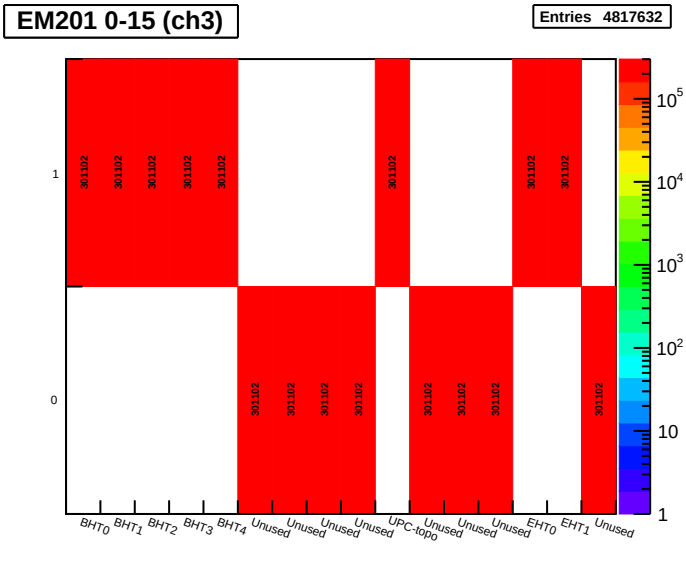

ST201 0-15 (ch6)
Entries 4817632
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5396
5395
1
5395
4
295706
295707
301101
295707
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301098
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

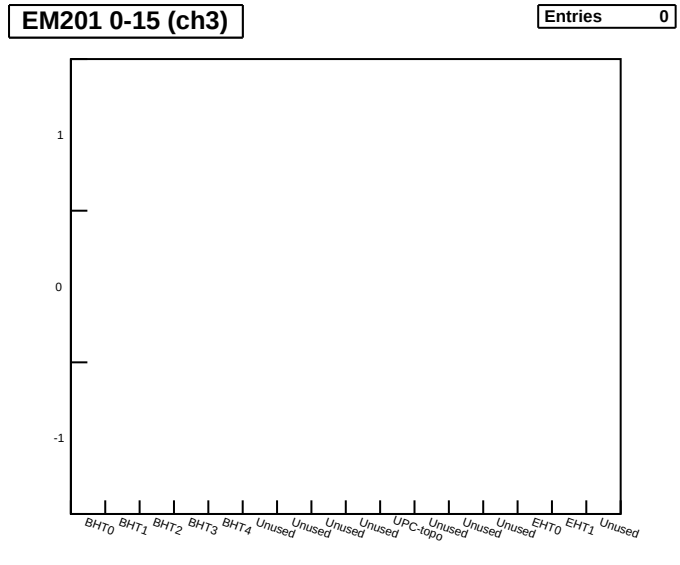

TF201 0-15 (ch0)
Entries 4817632
1
0
301102
292086
268066
257397
194431
247119
247965
244604
301102
301102
301102
301102
301102
9016
33036
43705
106671
301102
53983
53137
56498
301102
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5
1
10
10^2
10^3
10^4
10^5


TF201 0-15 (ch0)
Entries 0
1
0
-1
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFsector0_3
TOFsector1_4
TOFsector2_5


VT201 0-15 (ch1)
Entries 4817632
1
0
117992
222282
250237
231151
290970
290454
654
8220
8395
111
268658
285651
160450
199415
229126
183110
78820
50855
69951
10132
10648
300448
292882
292707
300991
301102
32434
15451
140672
101687
71976
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
1
10
10^2
10^3
10^4
10^5


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 4817632
1
0
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
301102
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1
1
10
10^2
10^3
10^4
10^5


EM201 0-15 (ch3)
Entries 0
1
0
-1
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
UPC-topo
EHT0
EHT1