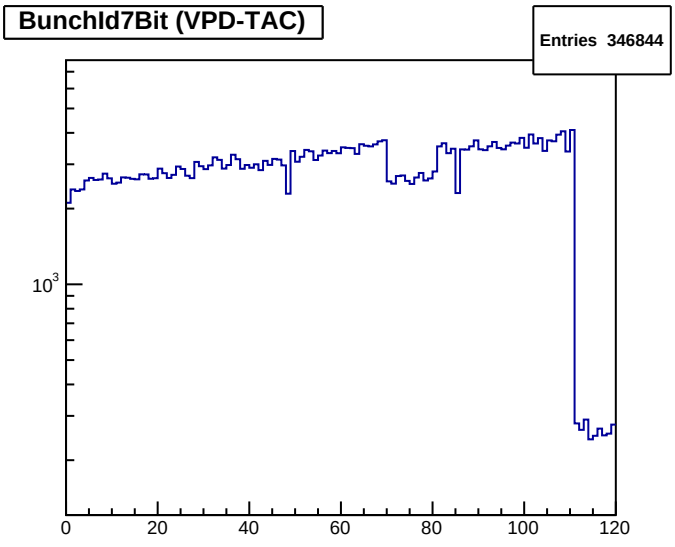
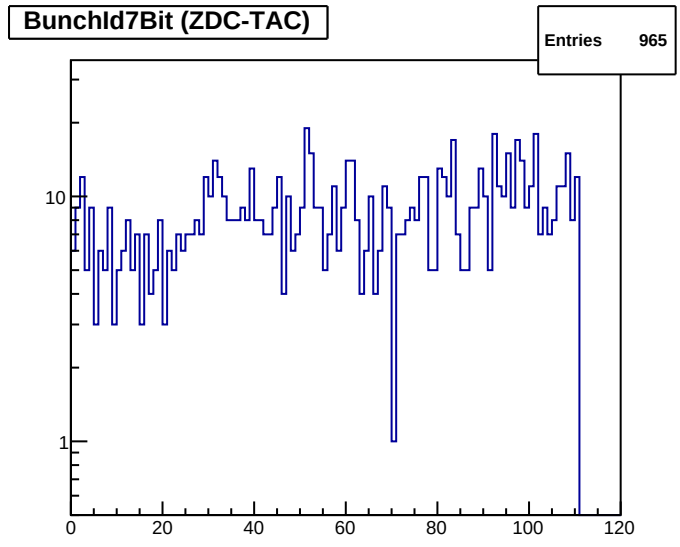
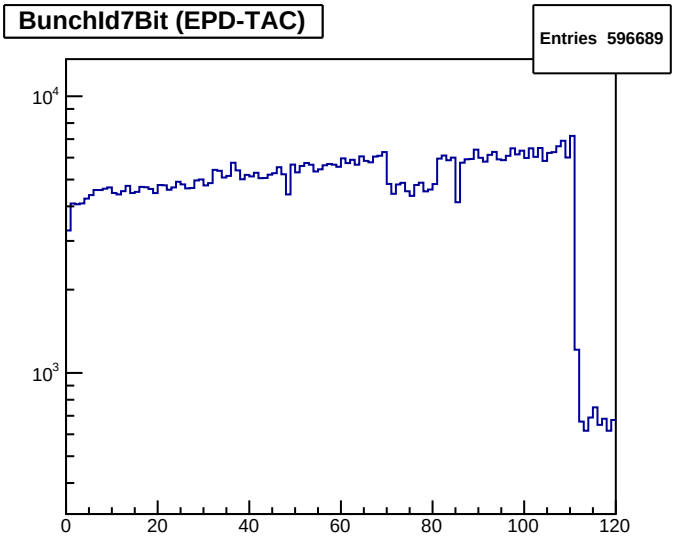
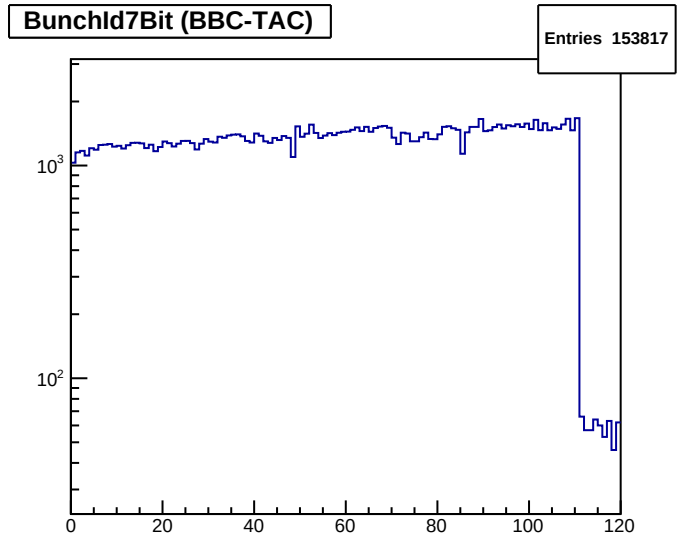
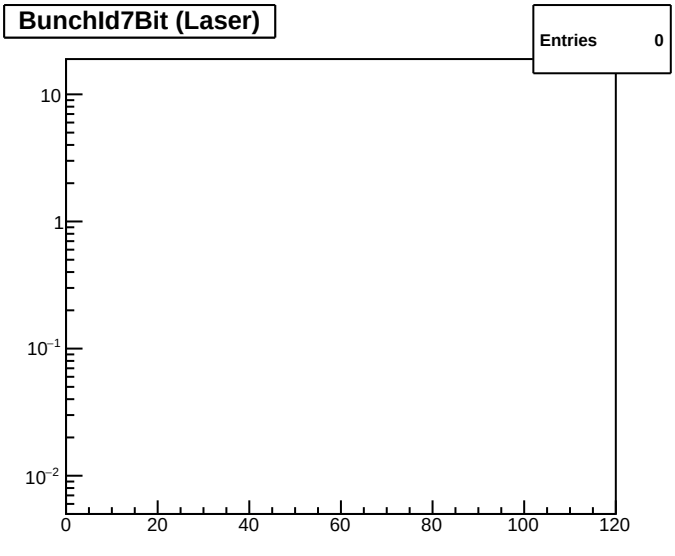
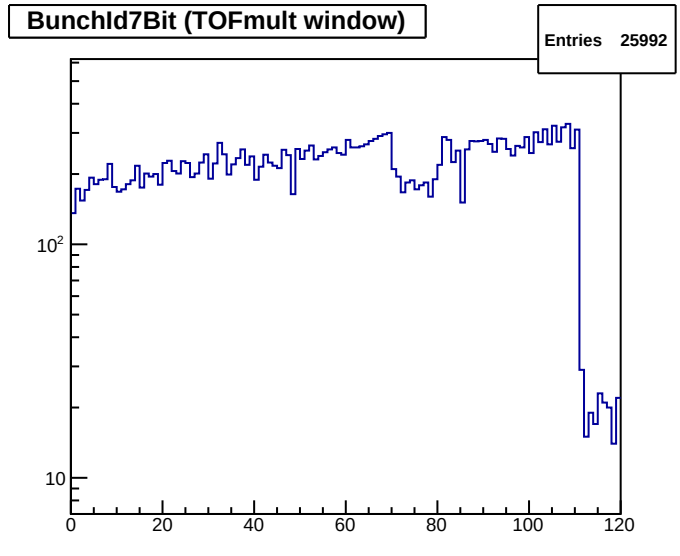

BunchId7Bit (VPD-TAC)
Entries 346844
10^3
0 20 40 60 80 100 120

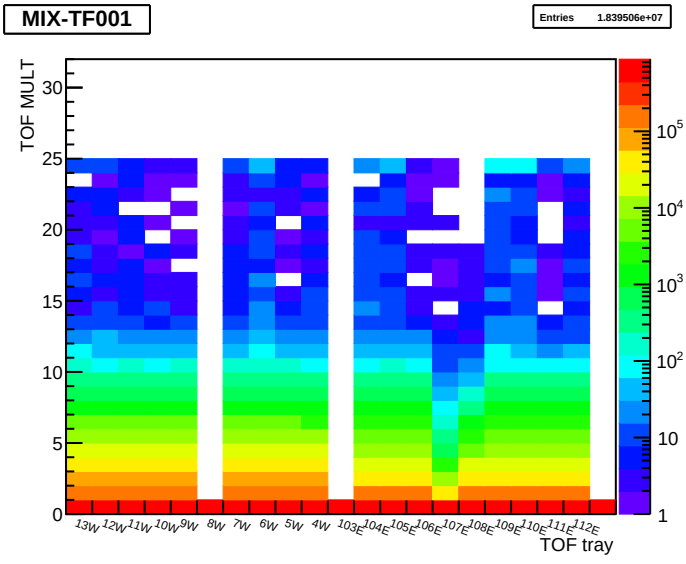

BunchId7Bit (ZDC-TAC)
Entries 965
10
1
0 20 40 60 80 100 120

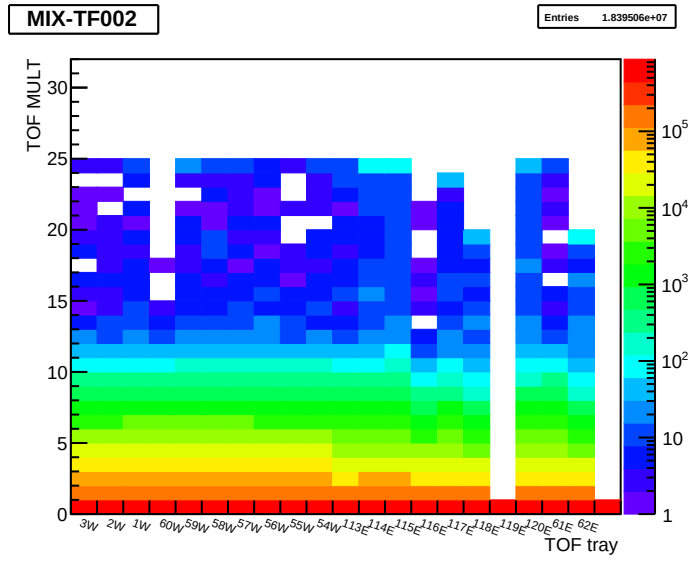

BunchId7Bit (EPD-TAC)
Entries 596689
10^4
10^3
0 20 40 60 80 100 120

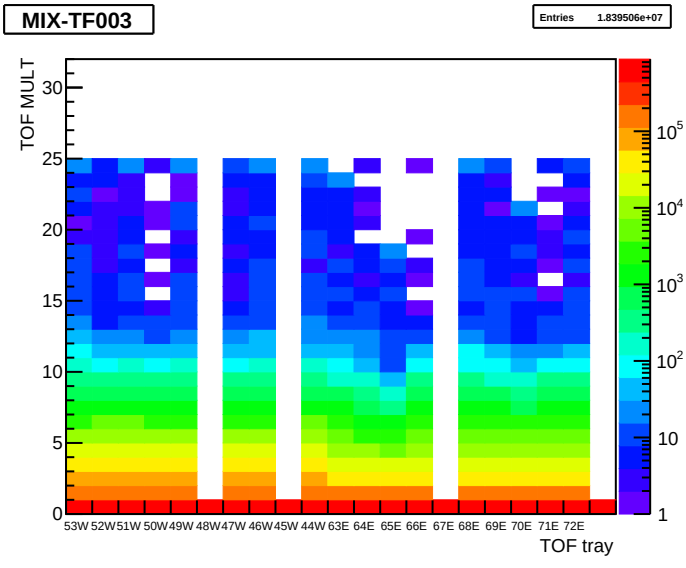

BunchId7Bit (BBC-TAC)
Entries 153817
10^3
10^2
0 20 40 60 80 100 120

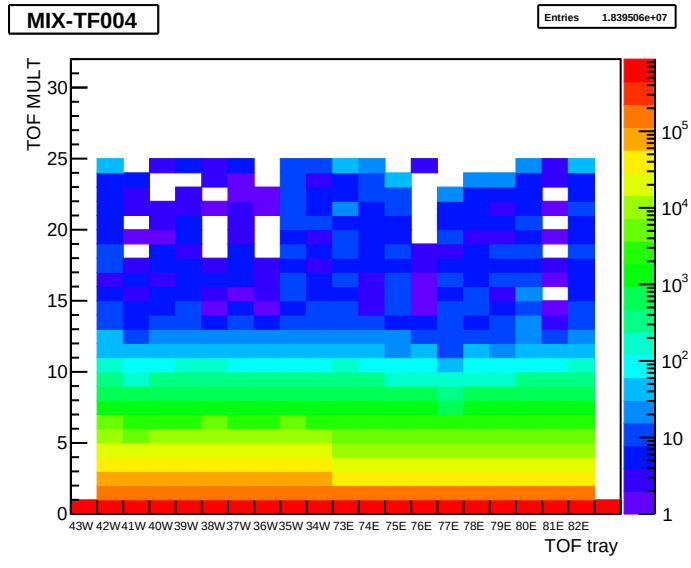

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

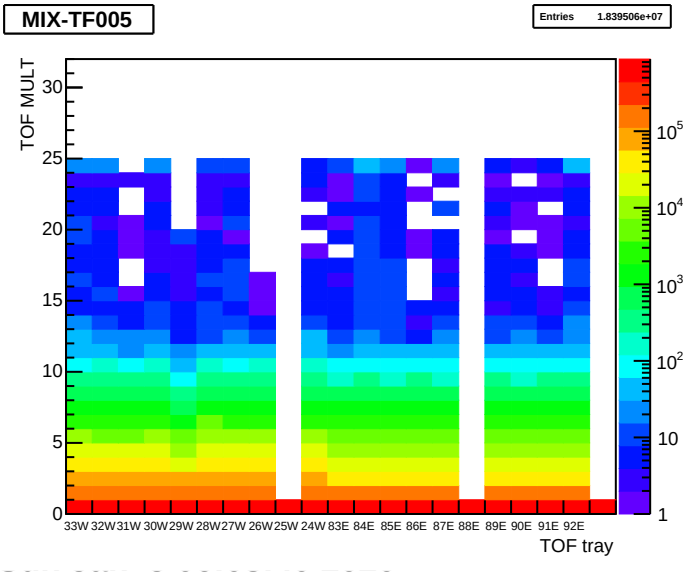

BunchId7Bit (TOFmult window)
Entries 25992
10^2
10
0 20 40 60 80 100 120

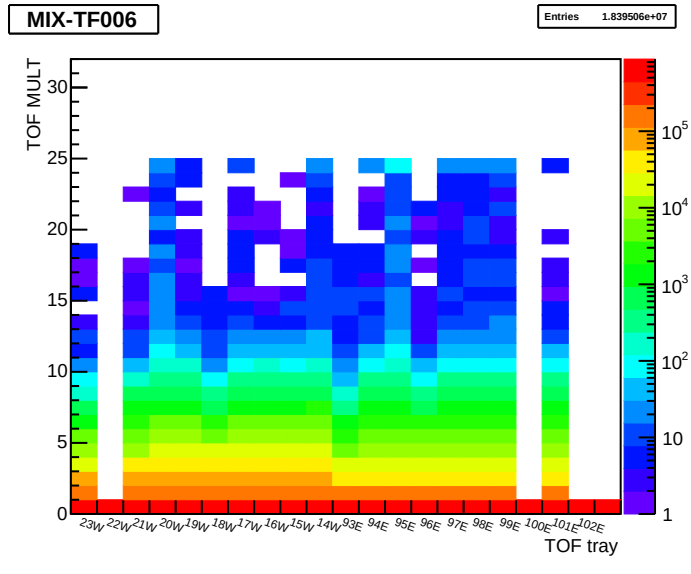

MIX-TF001
Entries 1.839506e+07
TOF MULT
TOF tray

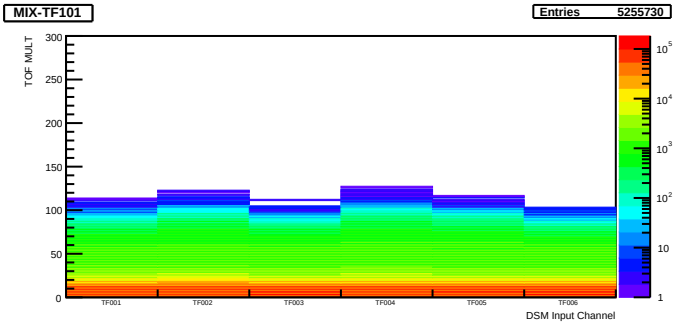

MIX-TF002
Entries 1.839506e+07
TOF MULT
TOF tray

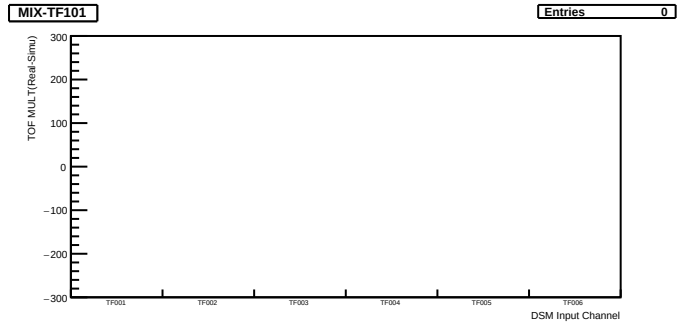

MIX-TF003
Entries 1.839506e+07
TOF MULT
TOF tray

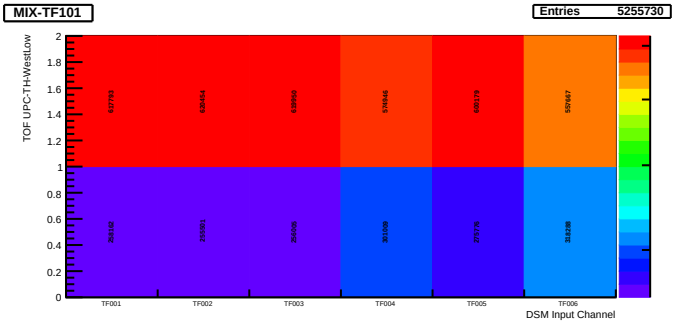

MIX-TF004
Entries 1.839506e+07
TOF MULT
TOF tray

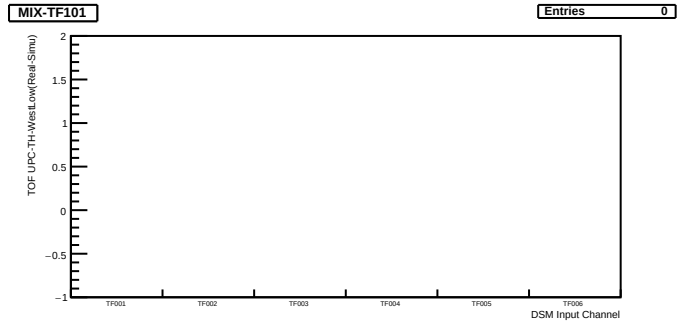

MIX-TF005
Entries 1.839506e+07
TOF MULT
TOF tray

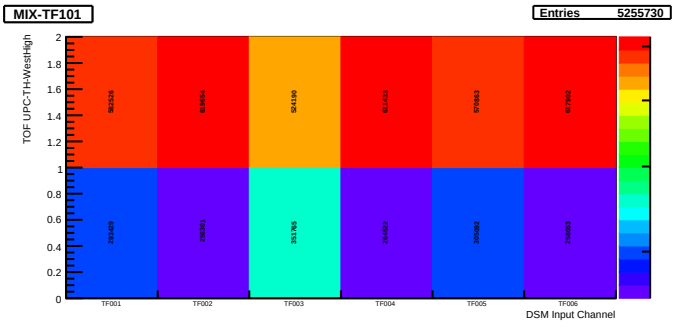

MIX-TF006
Entries 1.839506e+07
TOF MULT
TOF tray

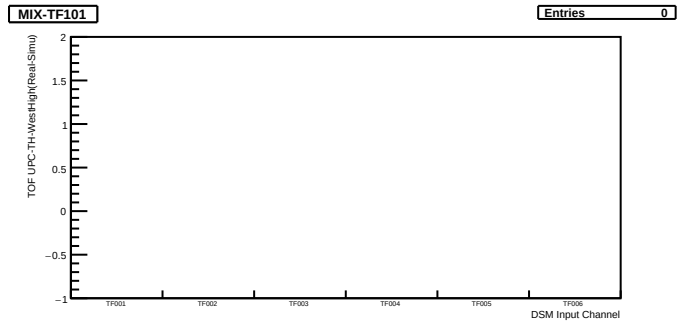

MIX-TF101
Entries 5255730
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

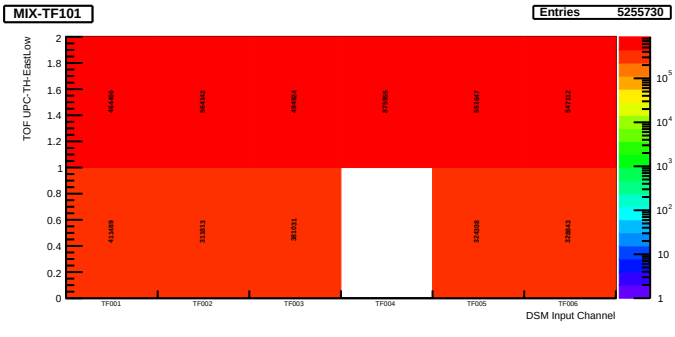

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

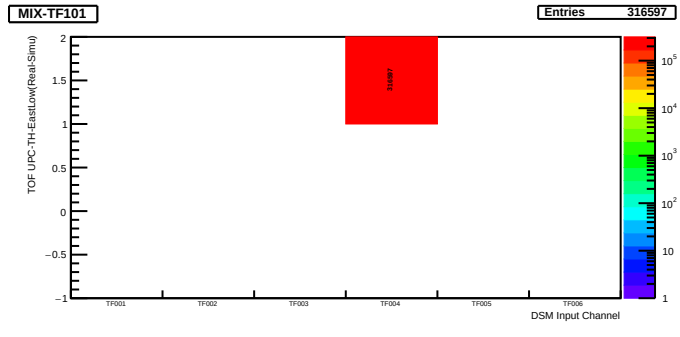

MIX-TF101
Entries 5255730
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

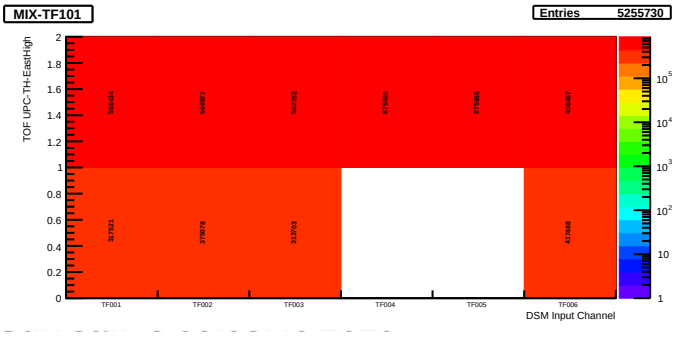

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

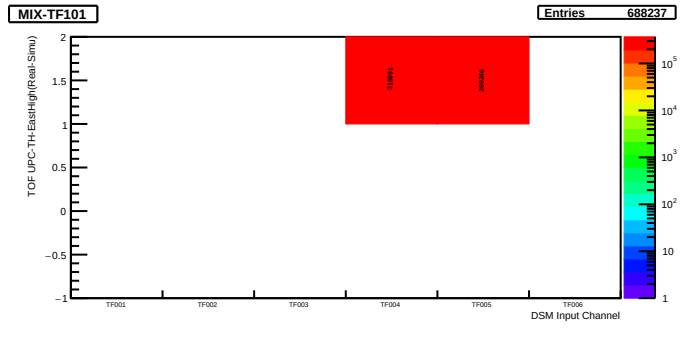

MIX-TF101
Entries 5255730
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

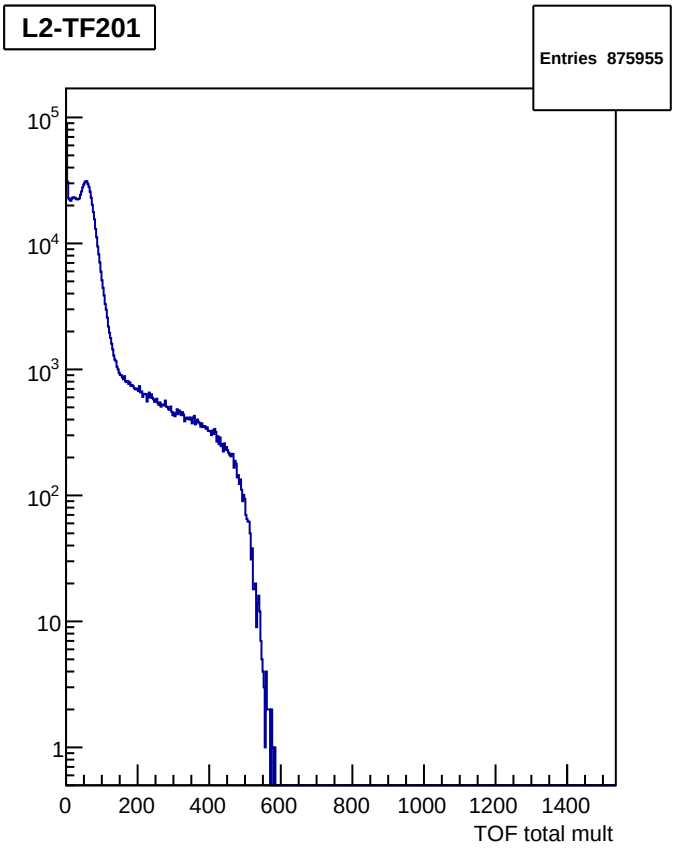

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

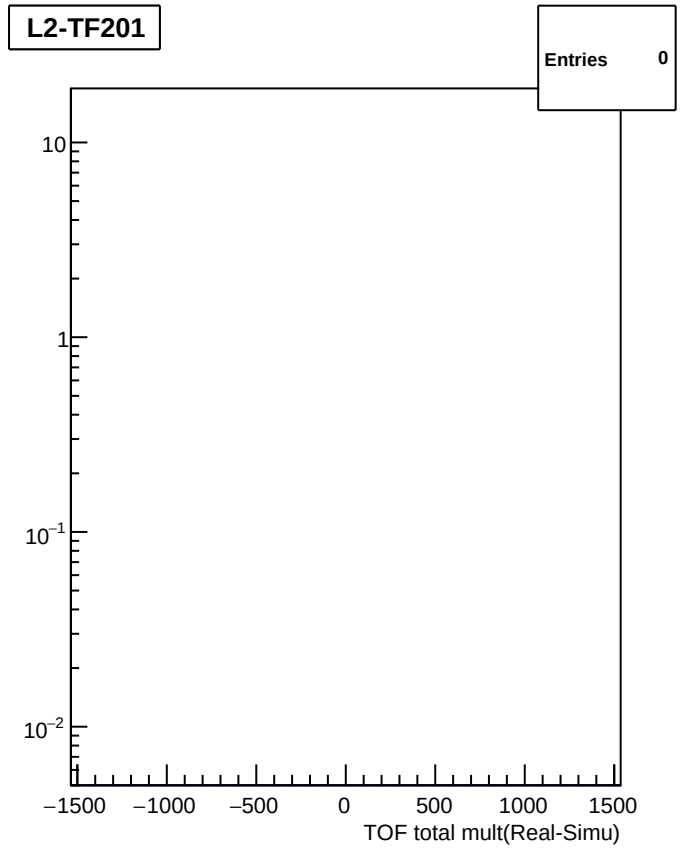

MIX-TF101
Entries 5255730
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

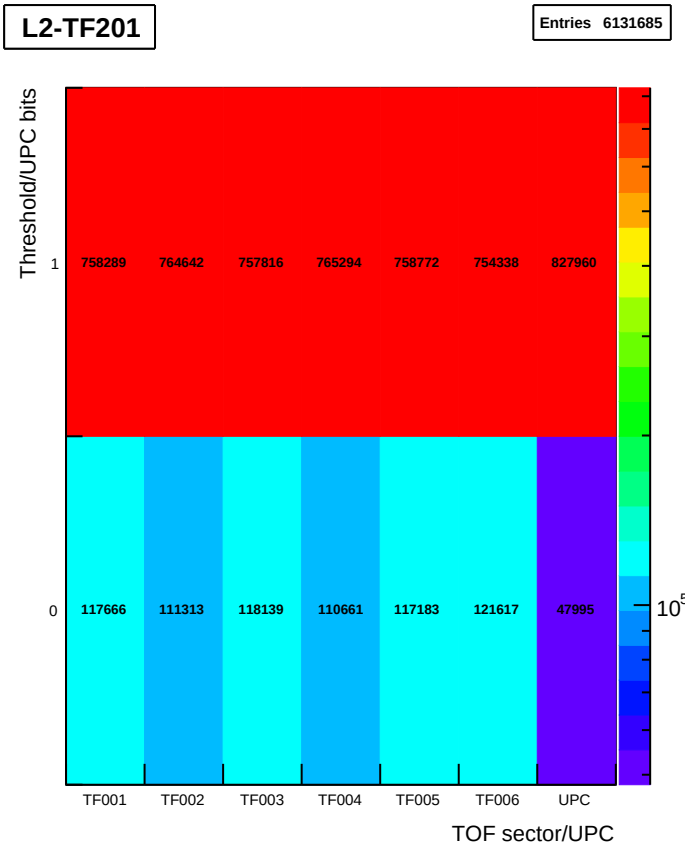

MIX-TF101
Entries 316597
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

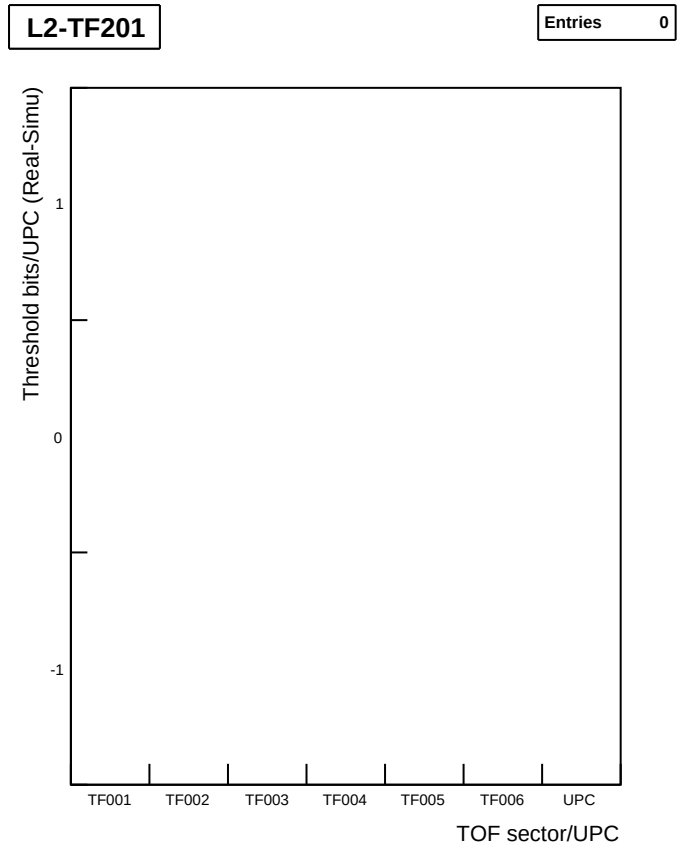

MIX-TF101
Entries 5255730
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

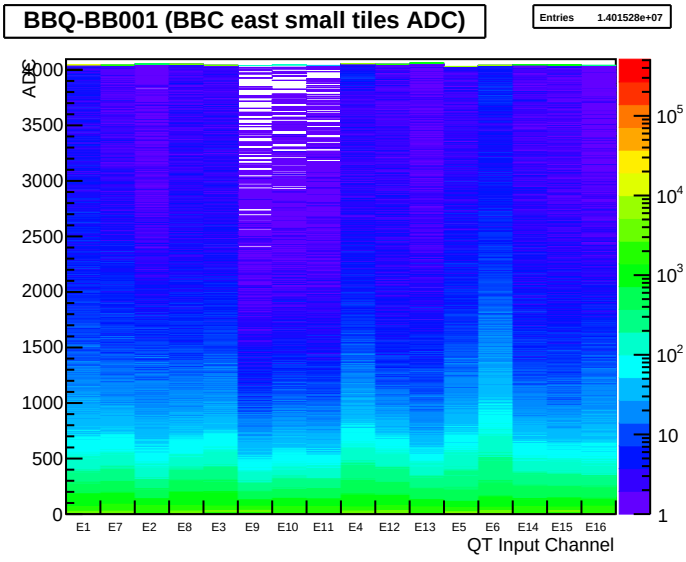

MIX-TF101
Entries 688237
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

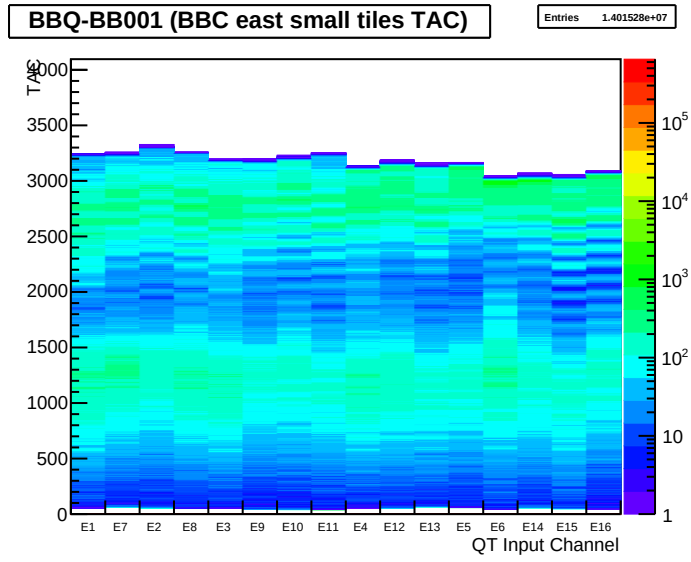

L2-TF201
Entries 875955
TOF total mult

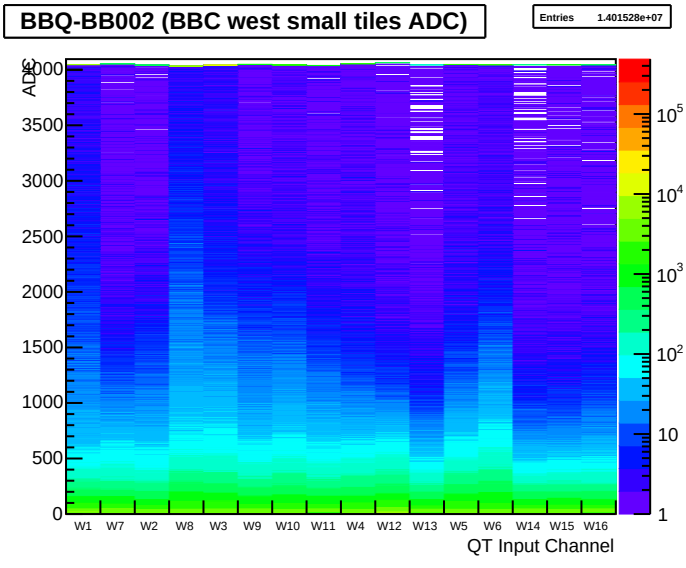

L2-TF201
Entries 0
TOF total mult(Real-Simu)

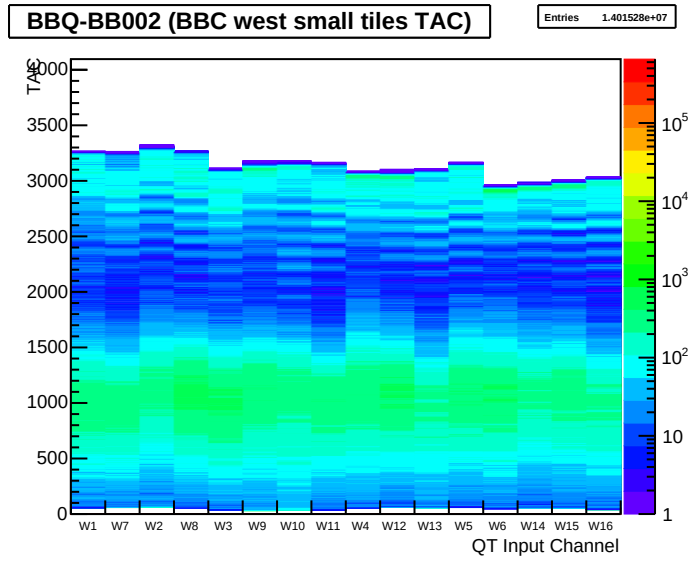

L2-TF201
Entries 6131685
Threshold/UPC bits
758289
764642
757816
765294
758772
754338
827960
117666
111313
118139
110661
117183
121617
47995
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

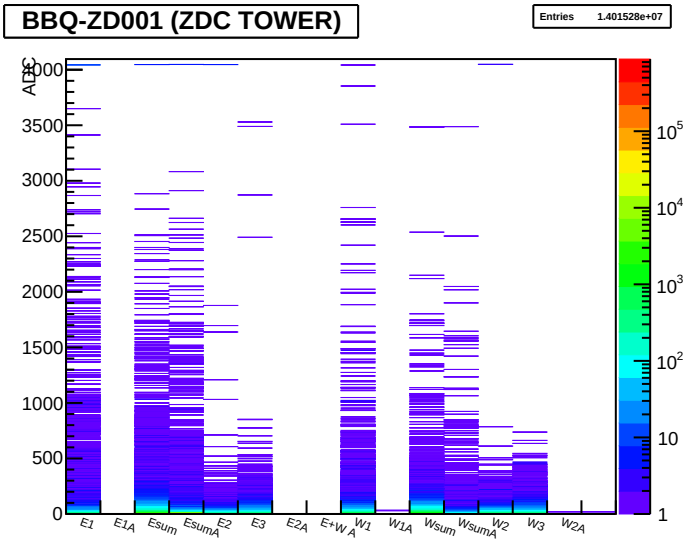

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

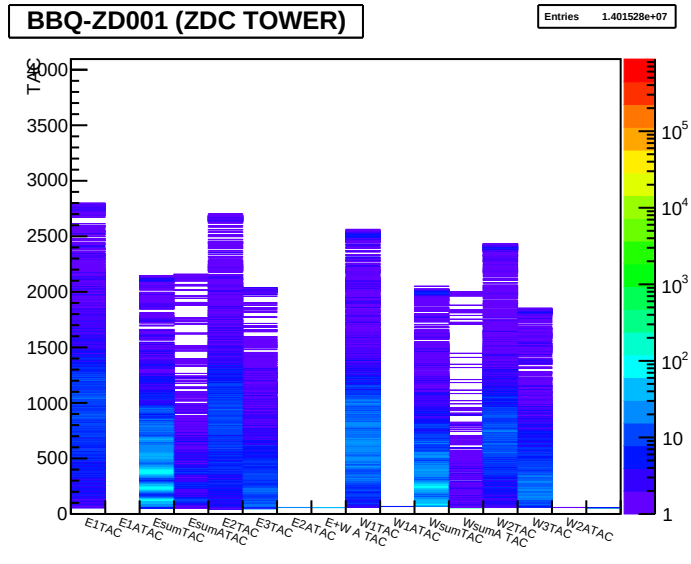

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.401528e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

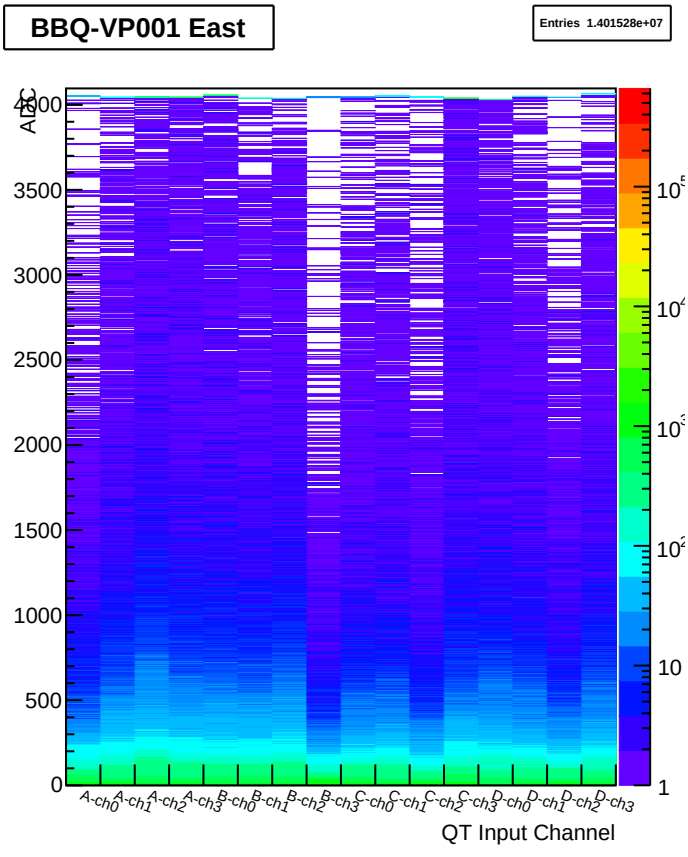

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.401528e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

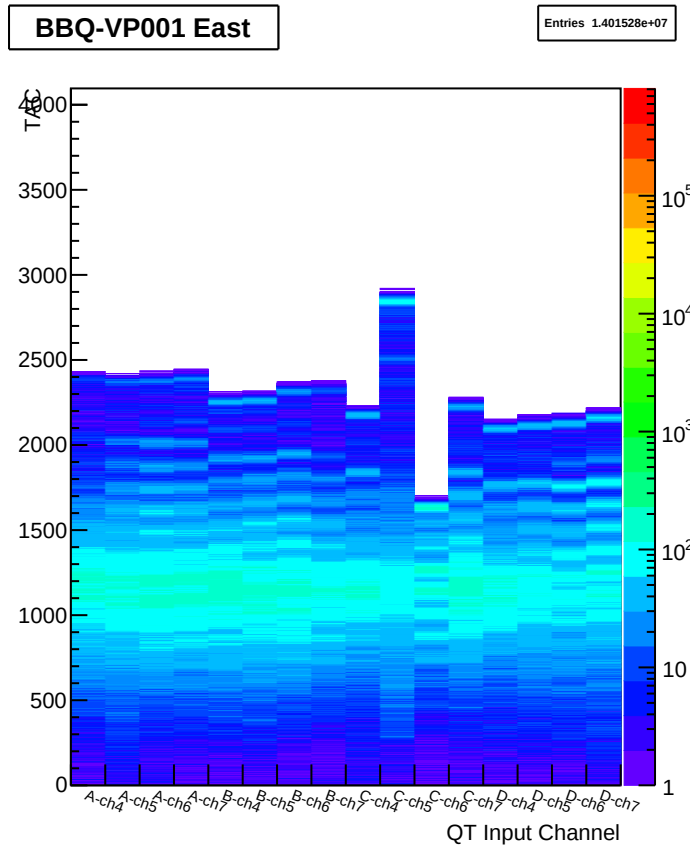

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.401528e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

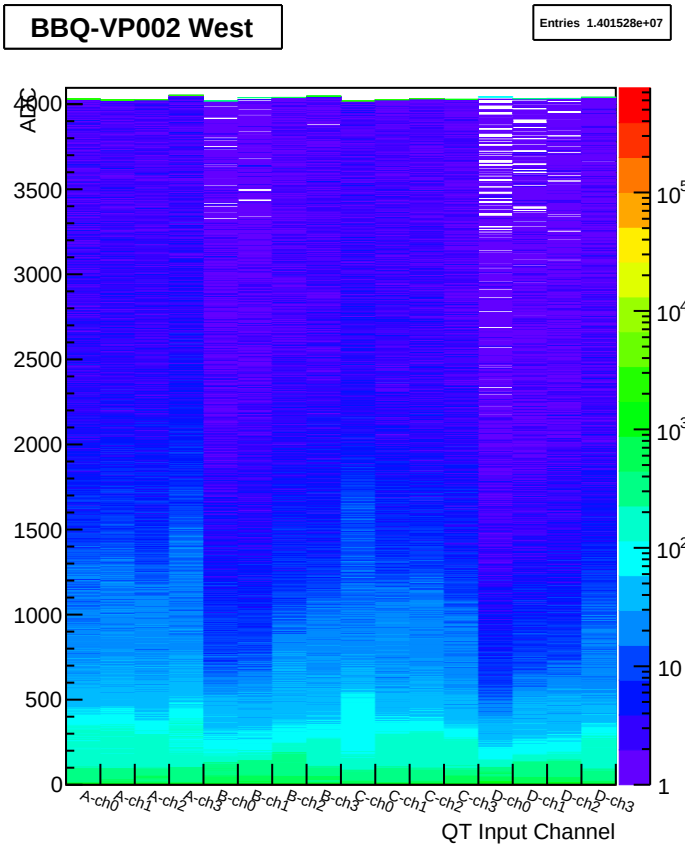

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.401528e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

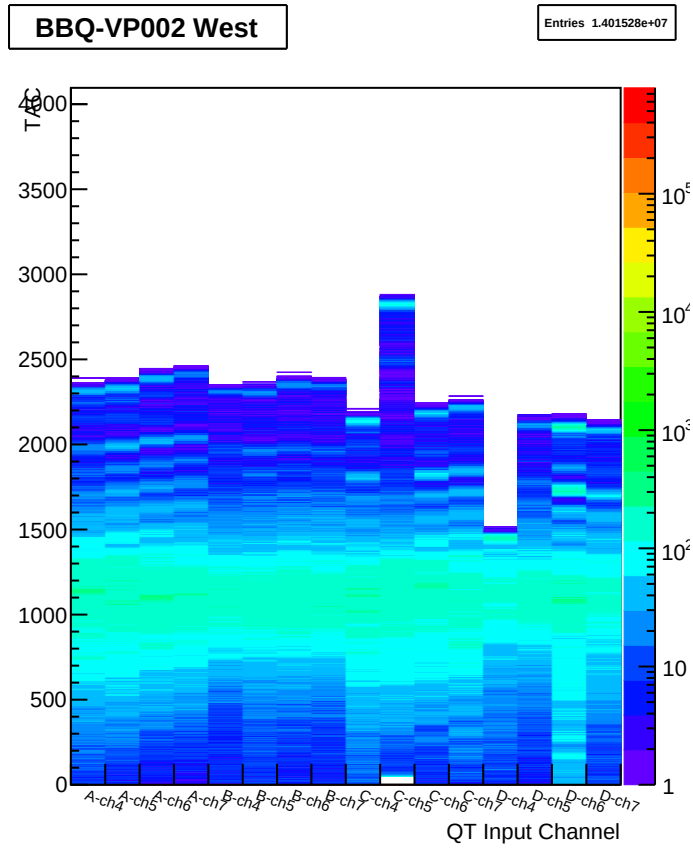

BBQ-ZD001 (ZDC TOWER)
Entries 1.401528e+07
ADC
E1 E1A Esum EsumA E2 E3 E2A E+W A W1 W1A Wsum WsumA W2 W3 W2A

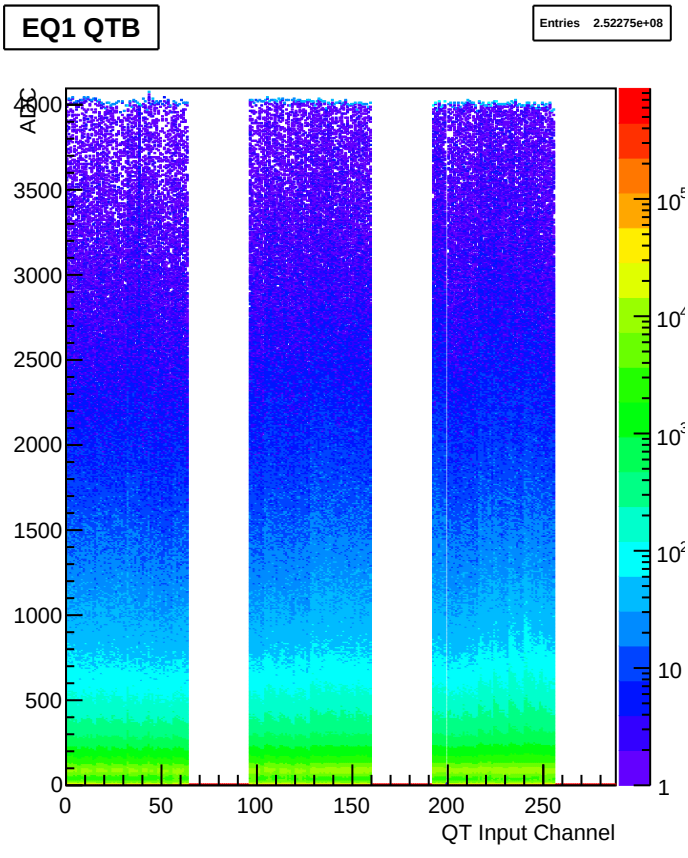

BBQ-ZD001 (ZDC TOWER)
Entries 1.401528e+07
TAC
E1TAC E1ATAC EsumTAC EsumATAC E2TAC E3TAC E2ATAC E+W A TAC W1TAC W1ATAC WsumTAC WsumA TAC W2TAC W3TAC W2ATAC

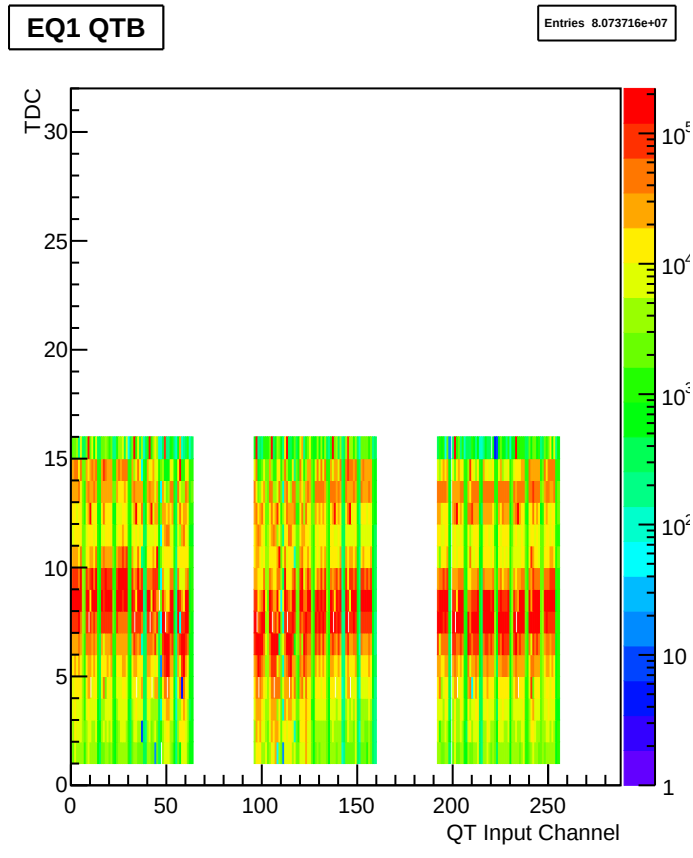

BBQ-VP001 East
Entries 1.401528e+07
ADC
QT Input Channel

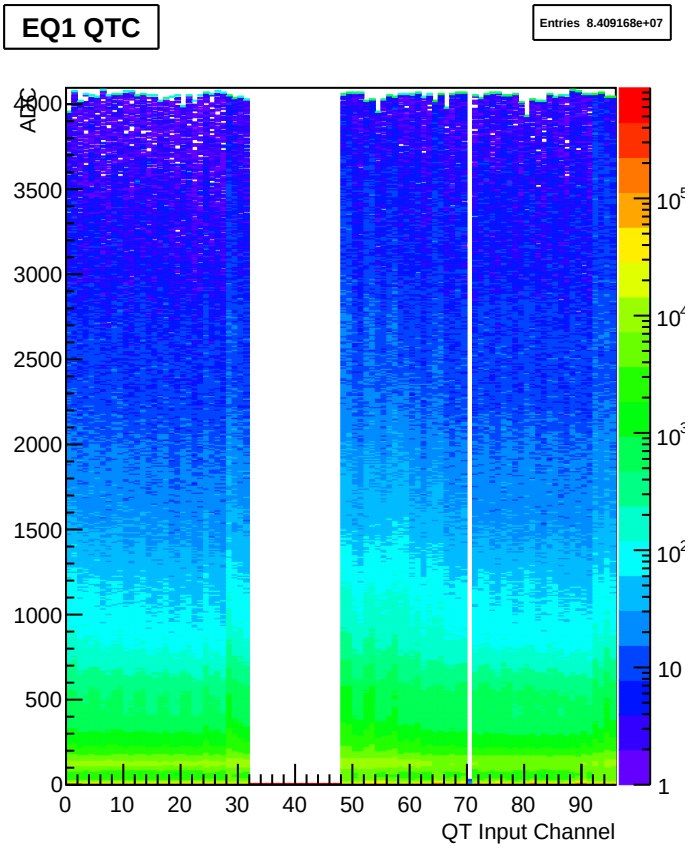

BBQ-VP001 East
Entries 1.401528e+07
TADC
QT Input Channel

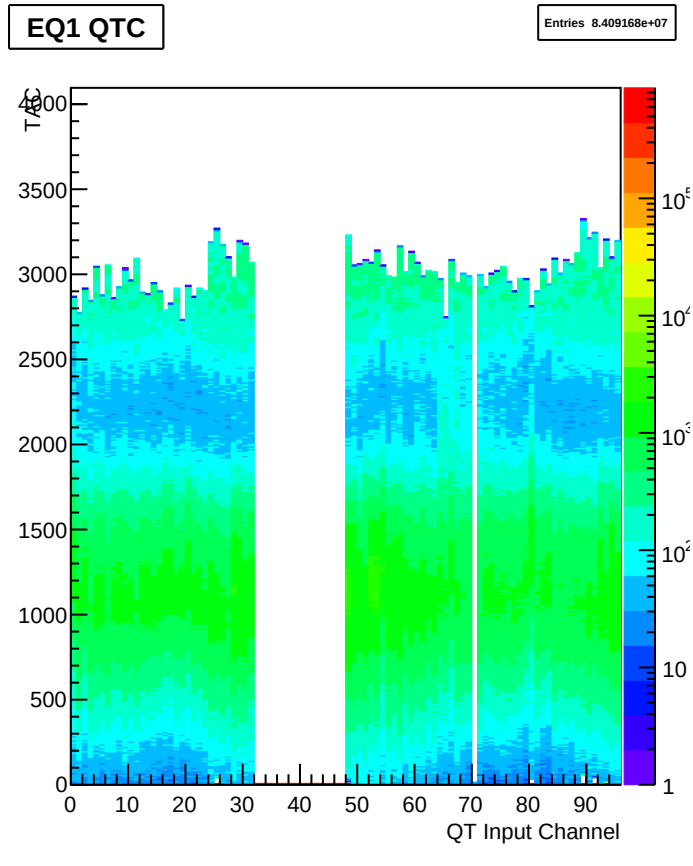

BBQ-VP002 West
Entries 1.401528e+07
ADC
QT Input Channel

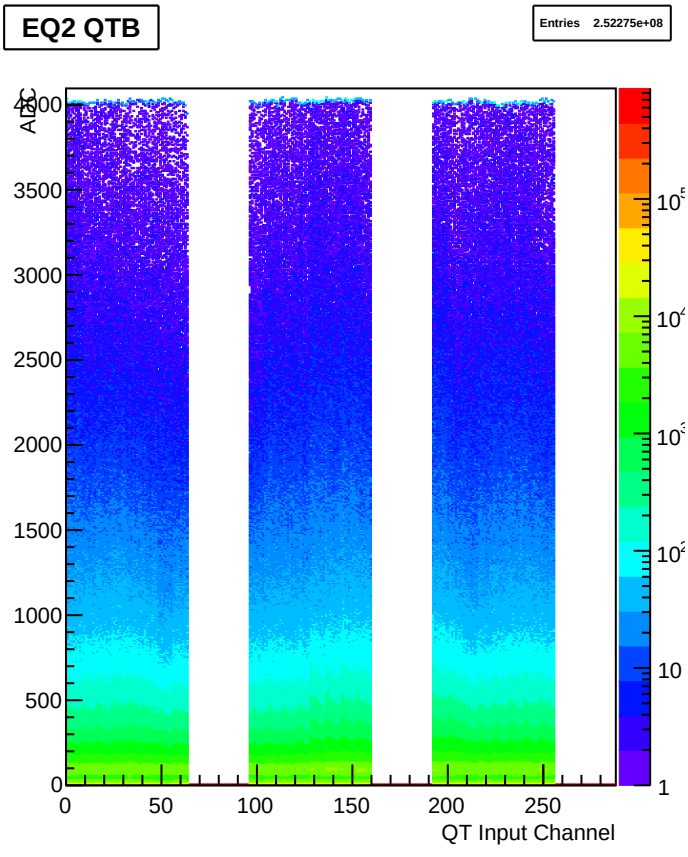

BBQ-VP002 West
Entries 1.401528e+07
TADC
QT Input Channel

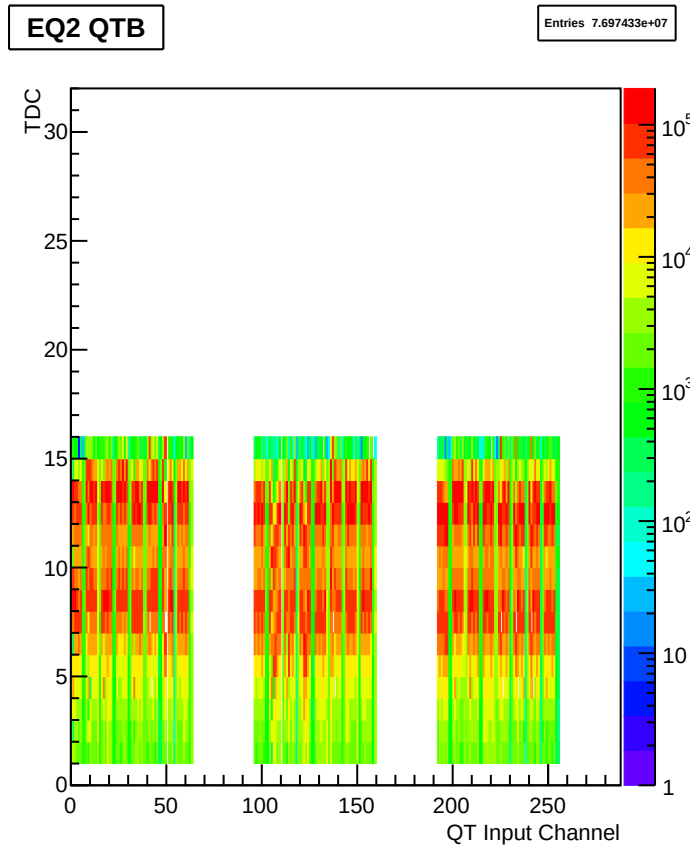

EQ1 QTB
Entries 2.52275e+08
ADC
QT Input Channel

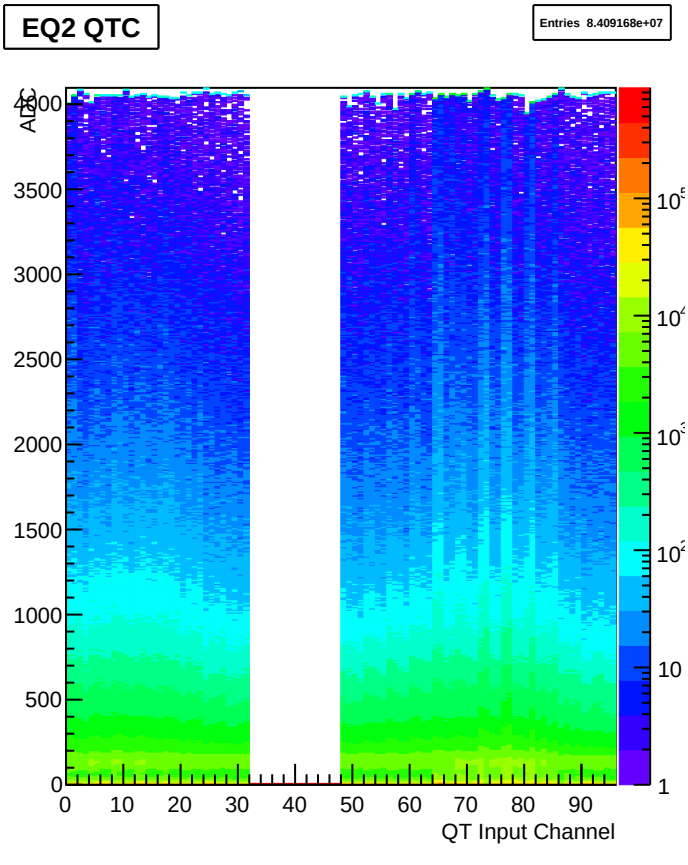

EQ1 QTB
Entries 8.073716e+07
TDC
QT Input Channel

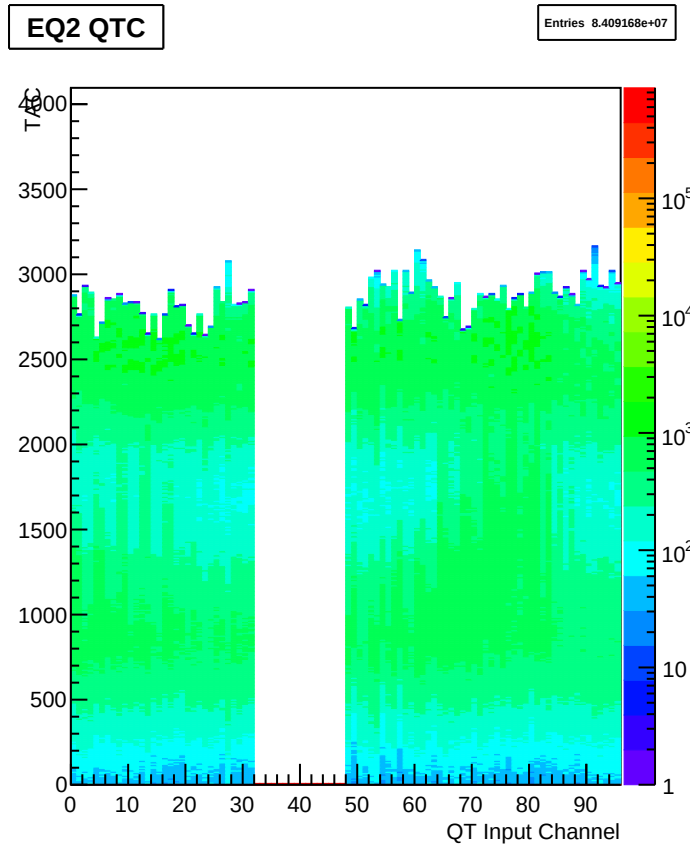

EQ1 QTC
Entries 8.409168e+07
ADC
QT Input Channel

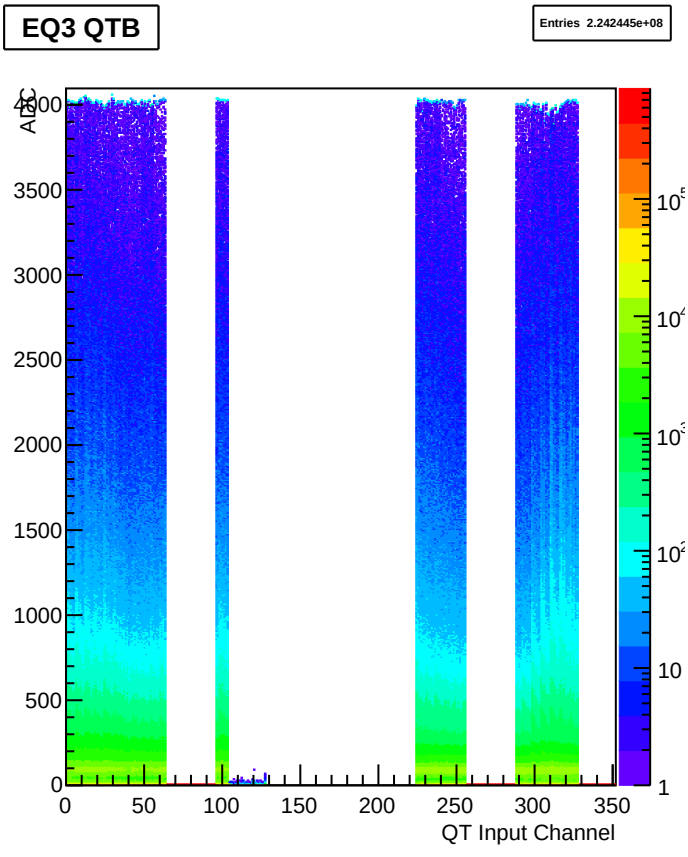

EQ1 QTC
Entries 8.409168e+07
TADC
QT Input Channel

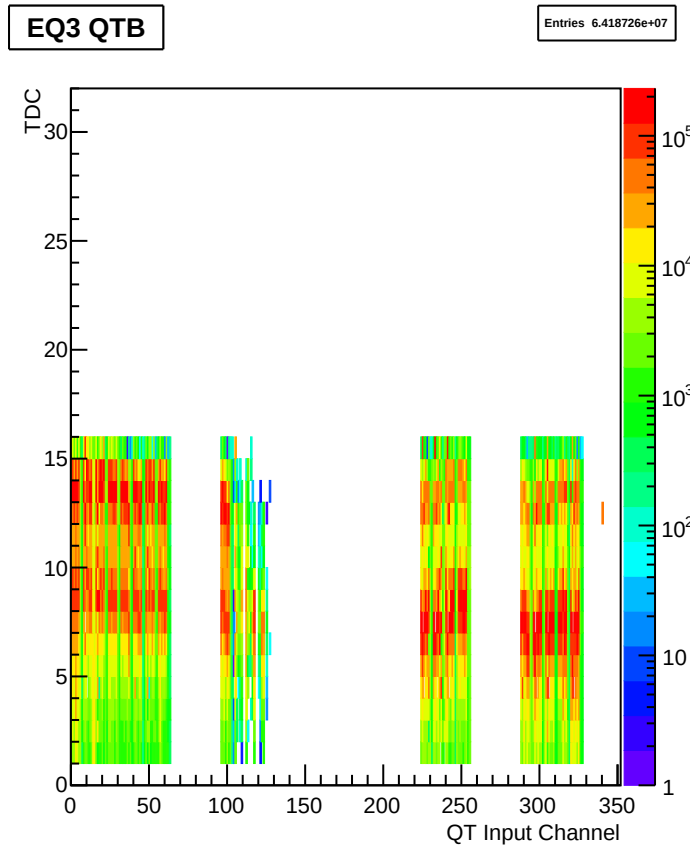

EQ2 QTB
Entries 2.52275e+08
ADC
QT Input Channel

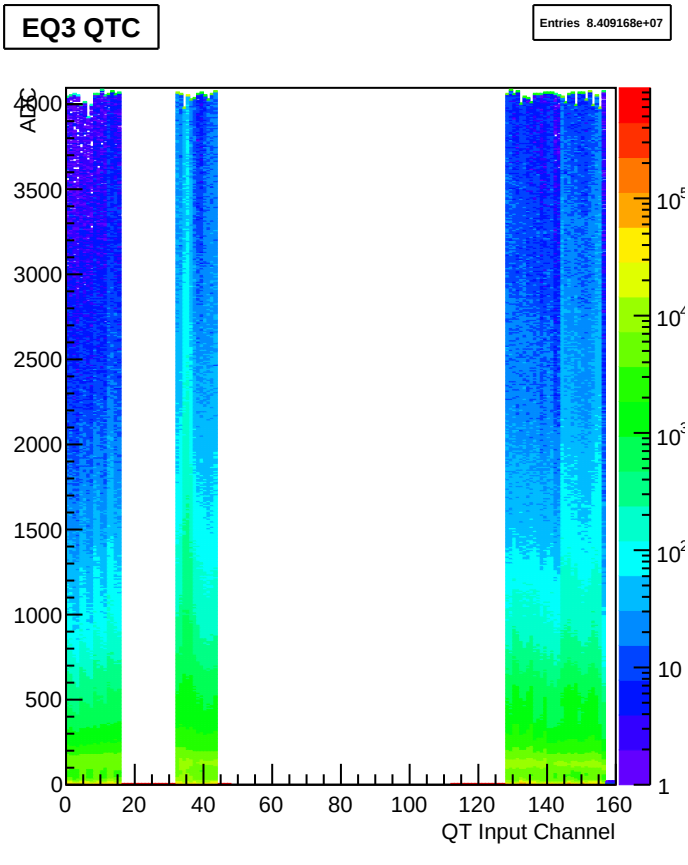

EQ2 QTB
Entries 7.697433e+07
TDC
QT Input Channel

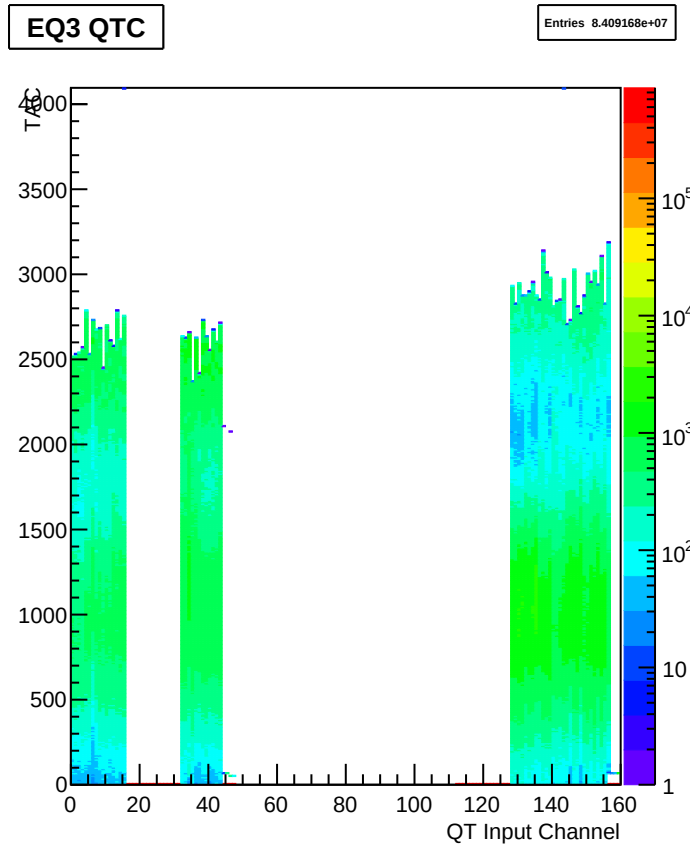

EQ2 QTC
Entries 8.409168e+07
ADC
QT Input Channel

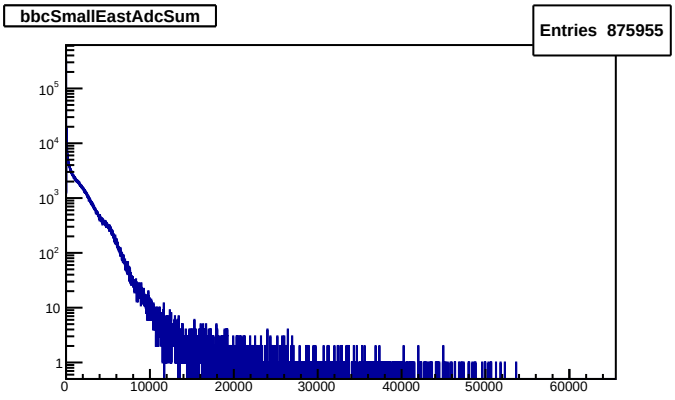

EQ2 QTC
Entries 8.409168e+07
TADC
QT Input Channel

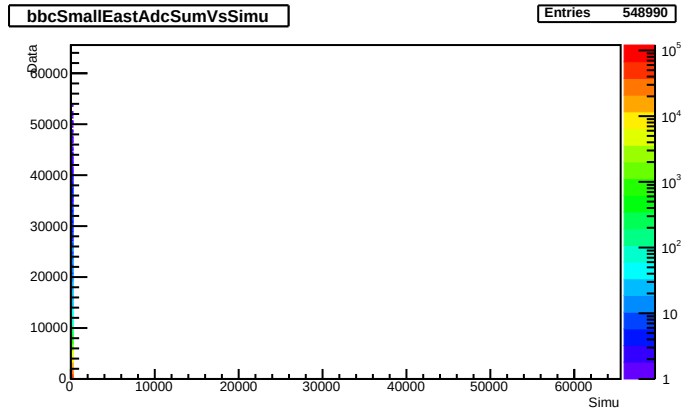

EQ3 QTB
Entries 2.242445e+08
ADC
QT Input Channel

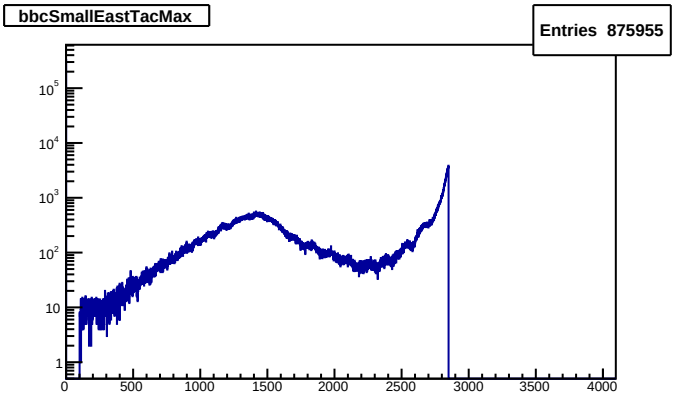

EQ3 QTB
Entries 6.418726e+07
TDC
QT Input Channel

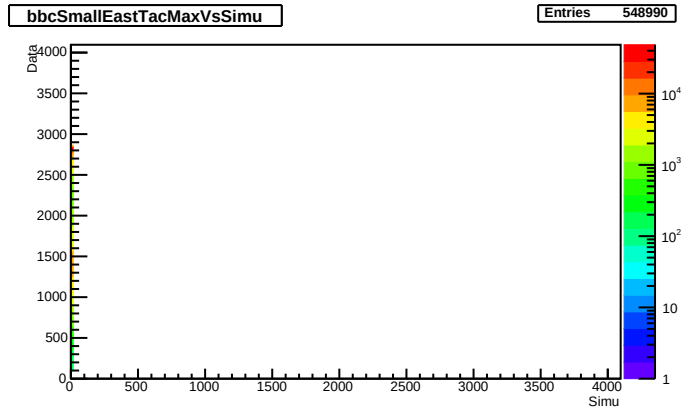

EQ3 QTC
Entries 8.409168e+07
ADC
QT Input Channel


EQ3 QTC
Entries 8.409168e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 875955


bbcSmallEastAdcSumVsSimu
Entries 548990
Data
Simu


bbcSmallEastTacMax
Entries 875955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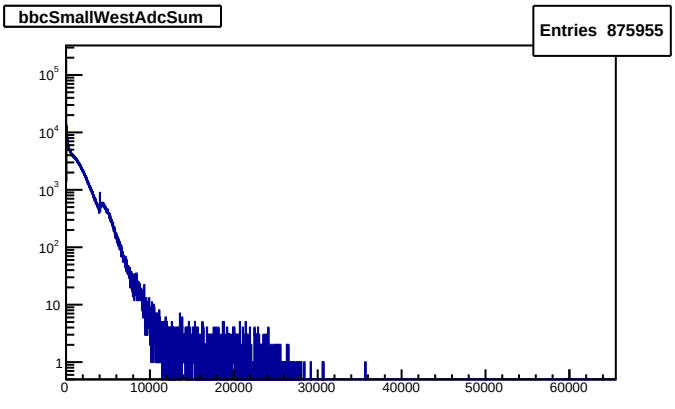
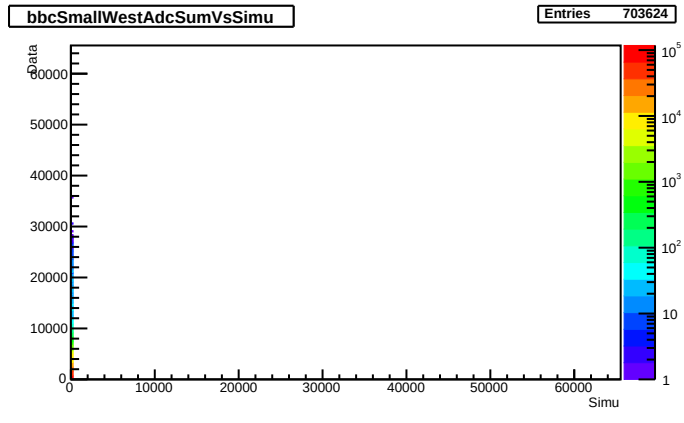
Entries 548990
Data
Simu


bbcSmallWestAdcSum
Entries 875955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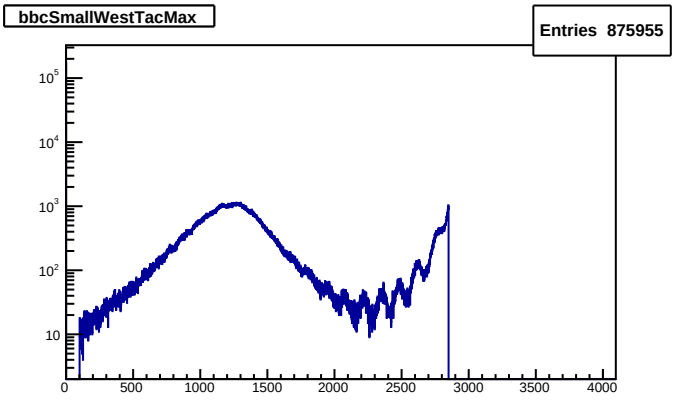
Entries 703624
Data
Simu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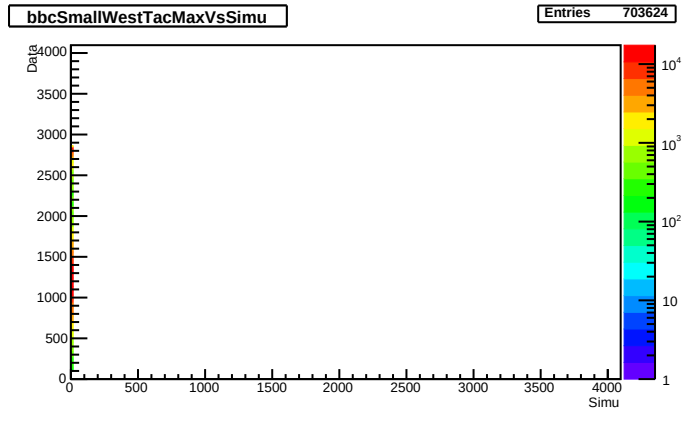
Entries 875955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Entries 703624
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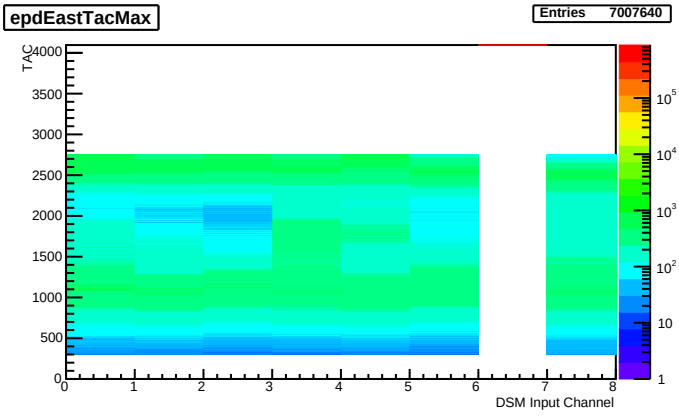
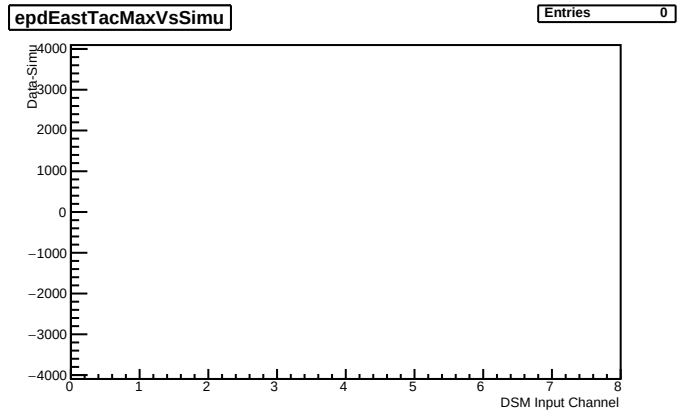
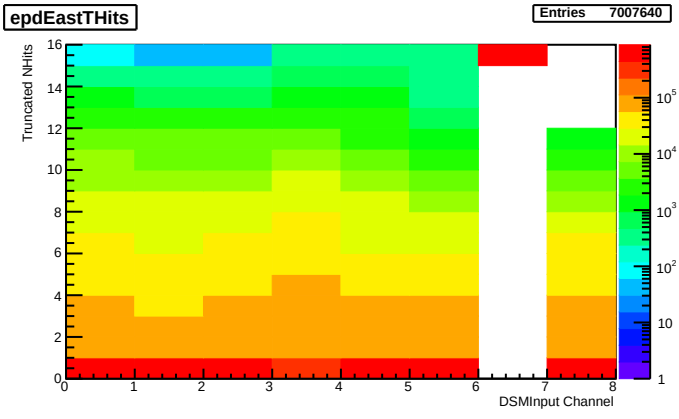
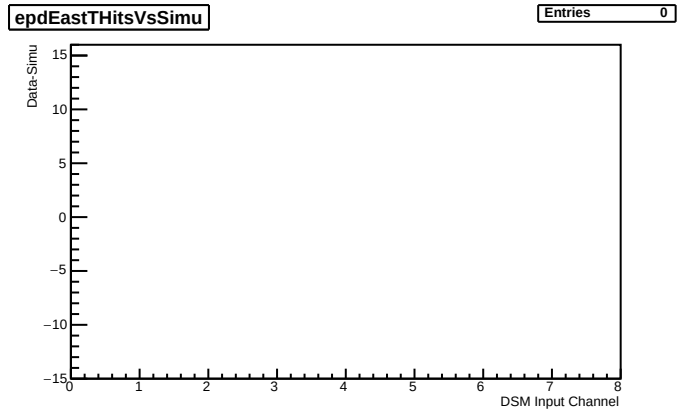
Simu


epdEastTacMax
Entries 7007640
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 7007640
Truncated NHits
DSMInput Channel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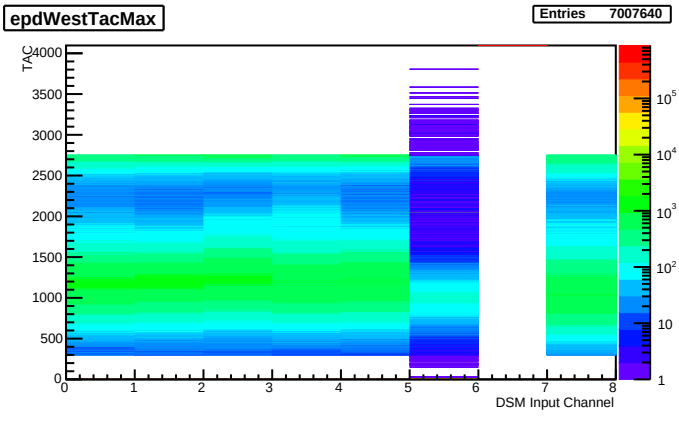
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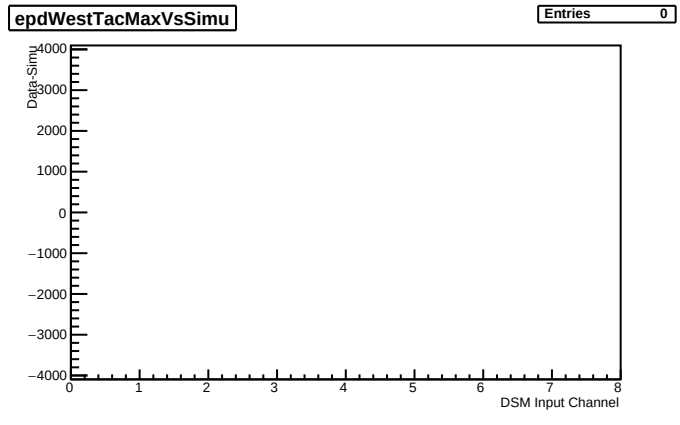
DSM Input Channel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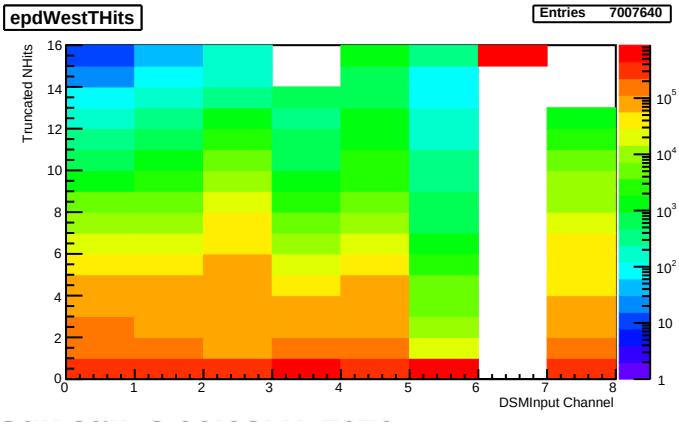
DSM Input Channel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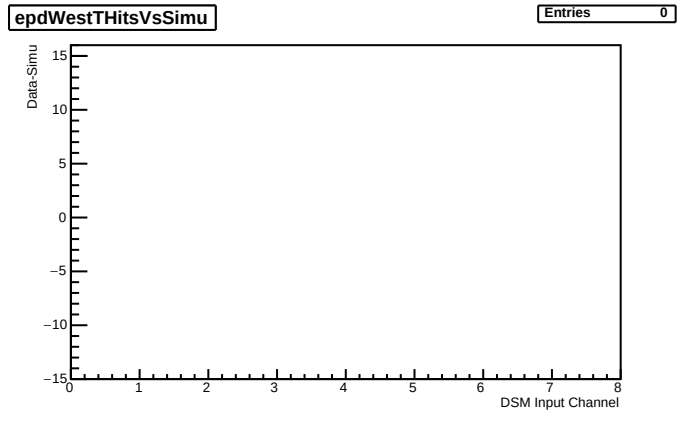
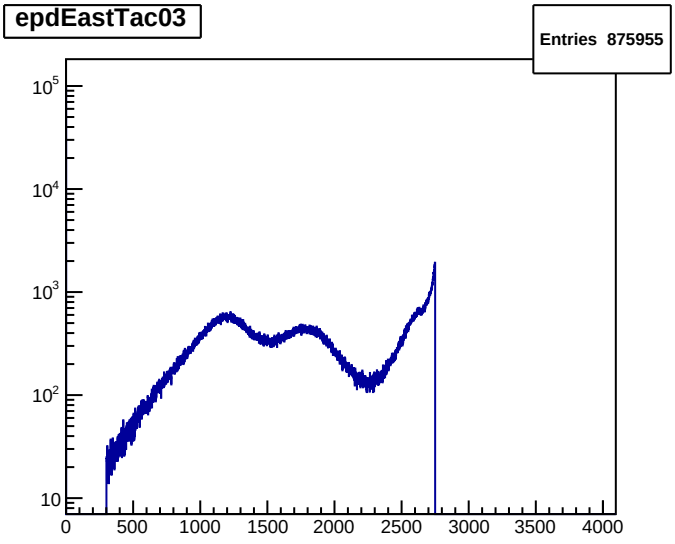
Entries 7007640
Truncated NHits
DSMInput Channel


epdWestTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel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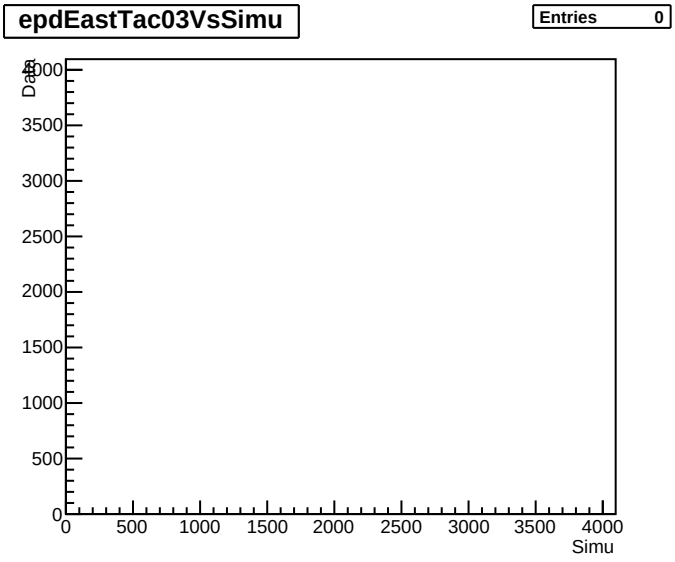
Entries 875955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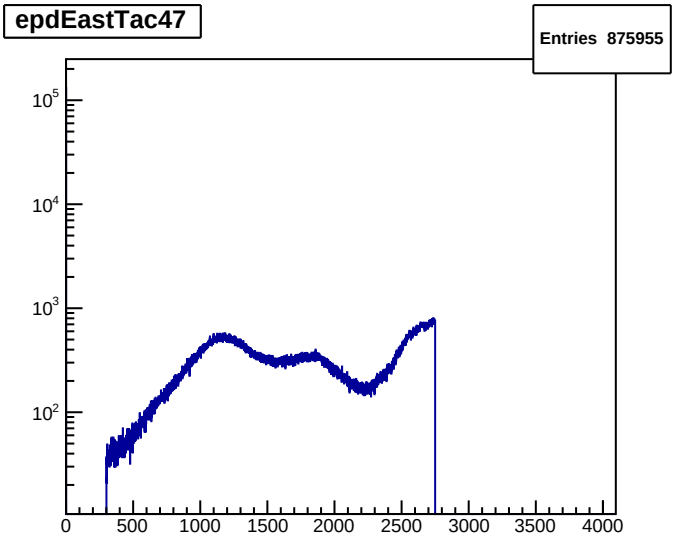
Entries 0
Data
Simu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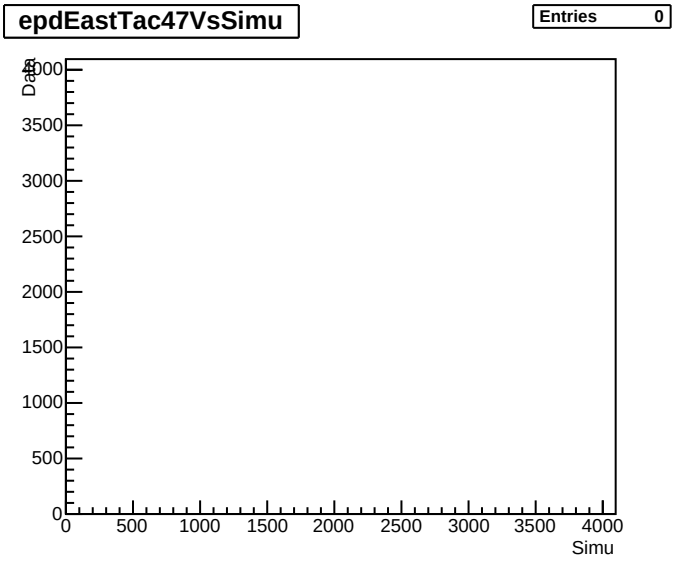
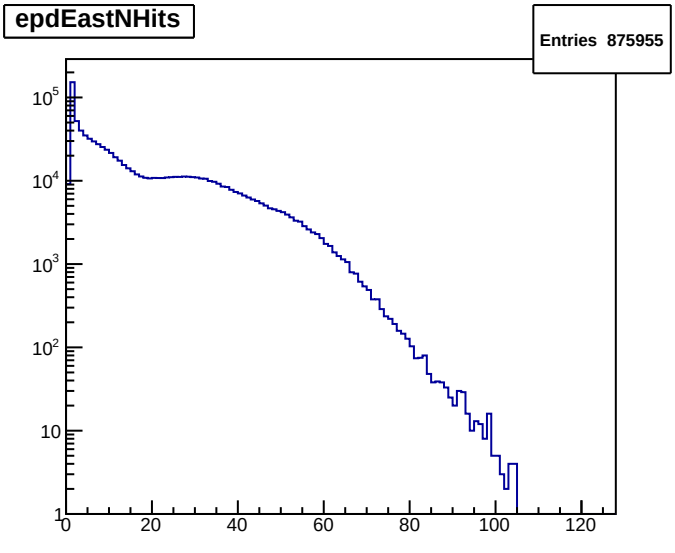
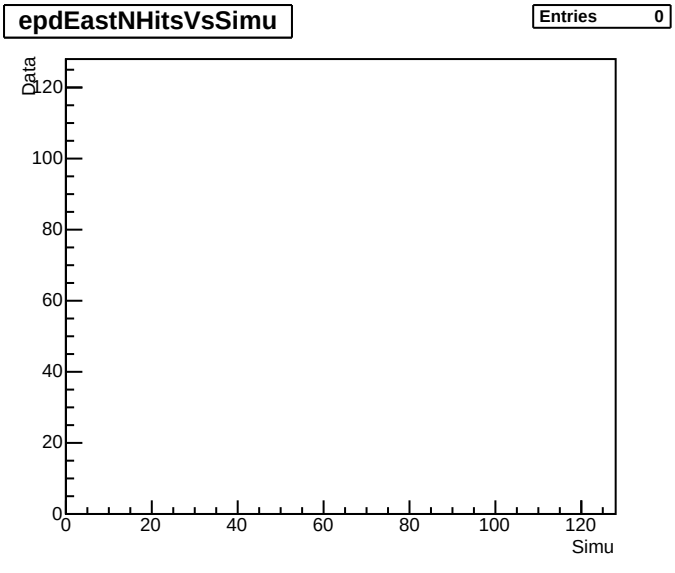
Entries 875955


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
Entries 875955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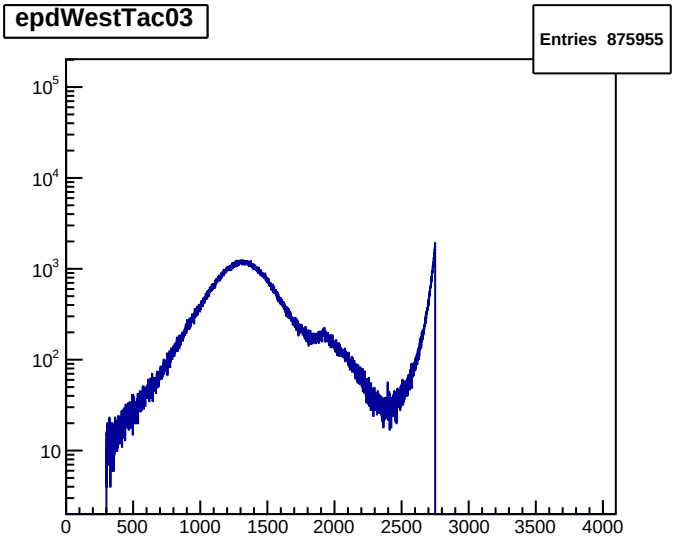
Entries 0
Data
Simu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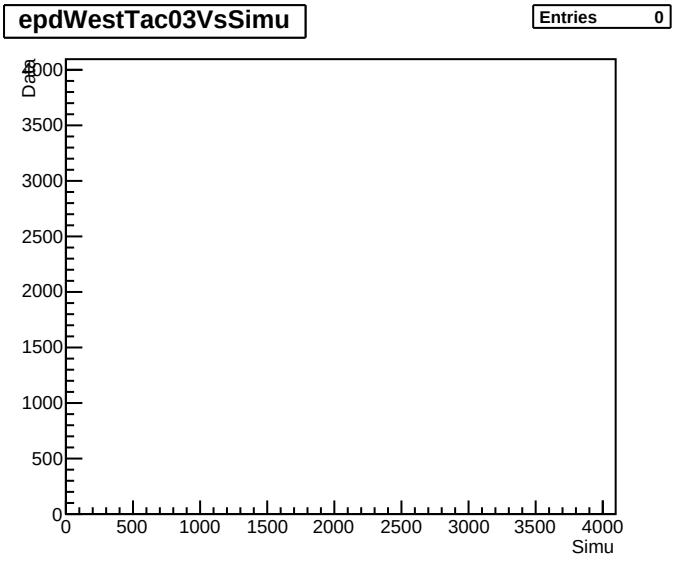
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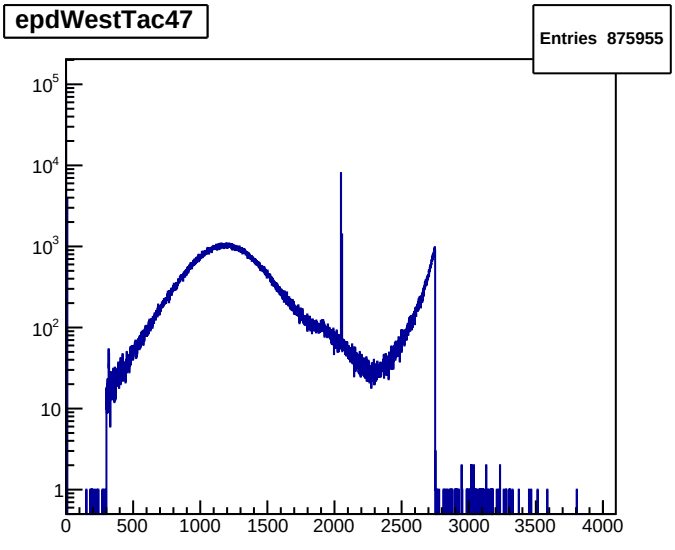
Entries 0
Data
Simu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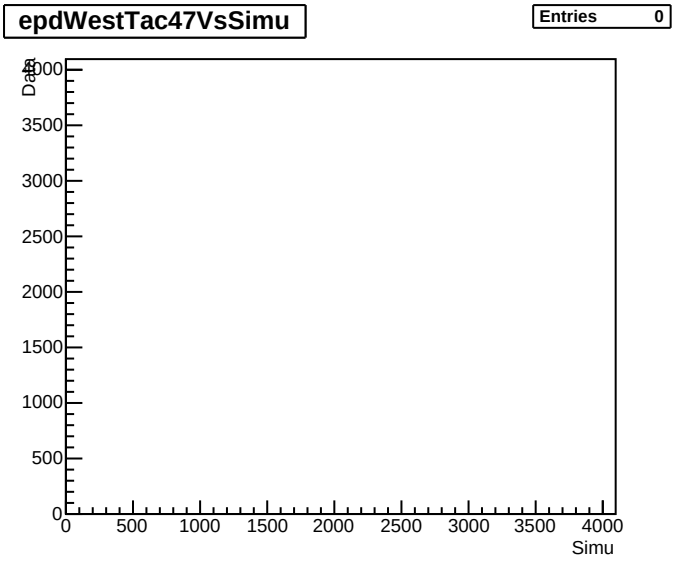
Entries 875955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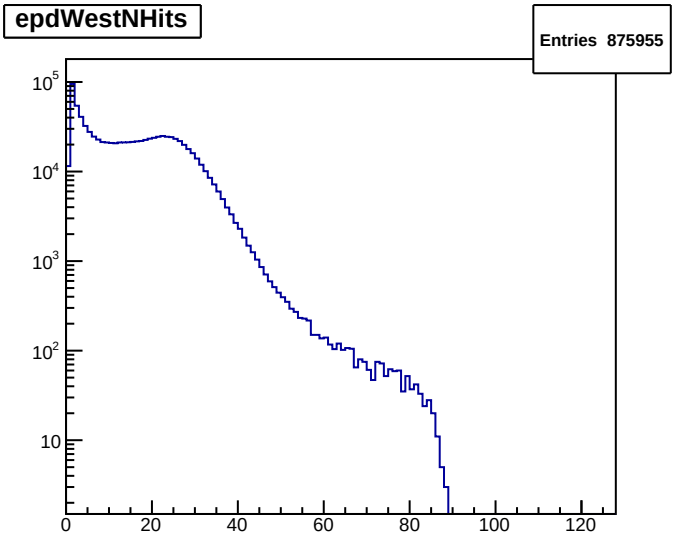
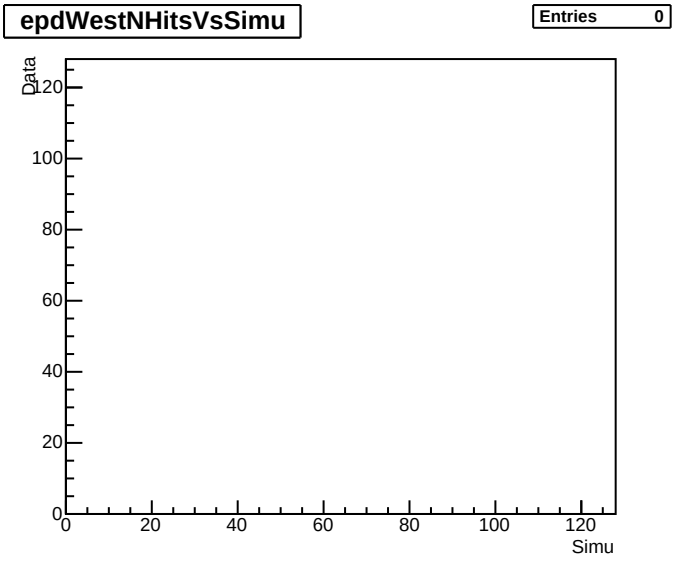
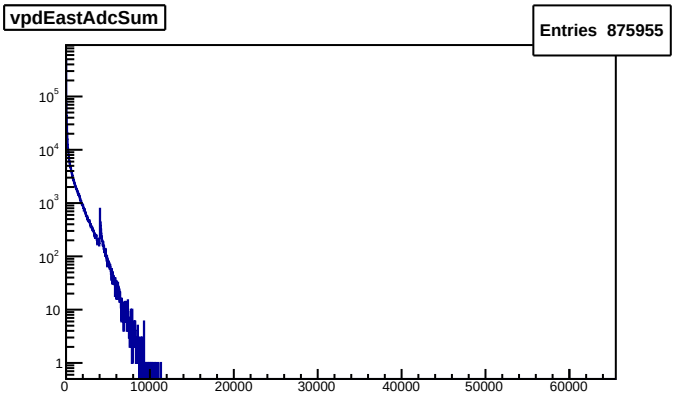
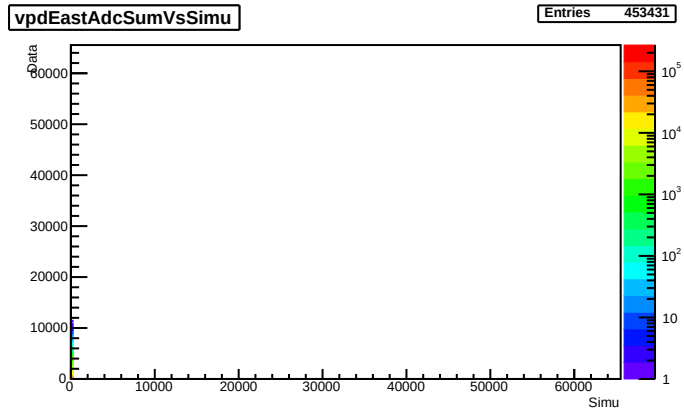
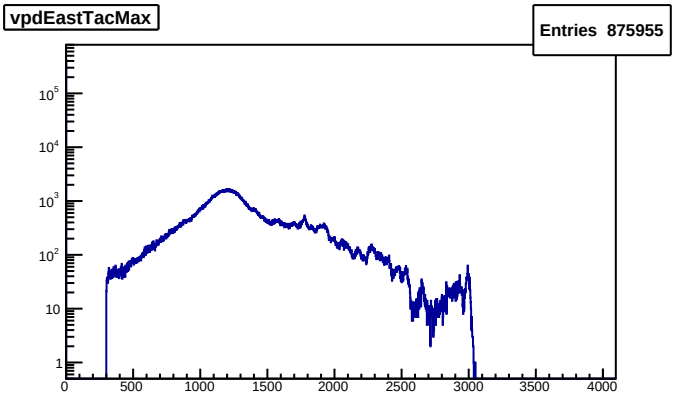
Entries 0
Data
Simu

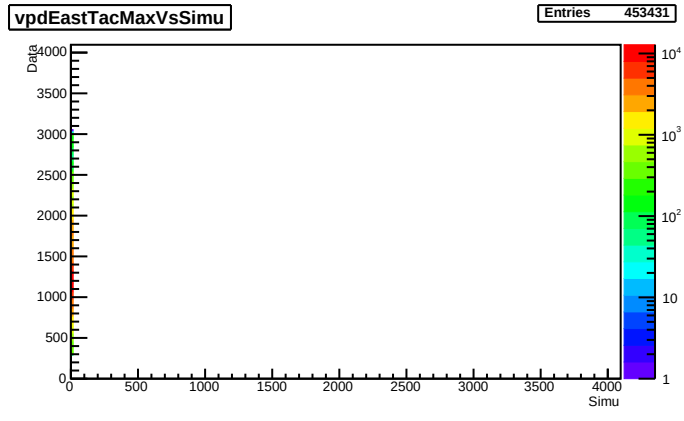

epdWestNHits
Entries 875955

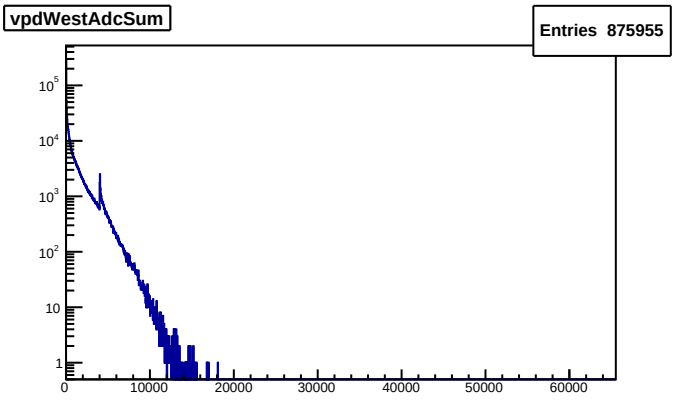

epdWestNHitsVsSimu
Entries 0
Data
Simu

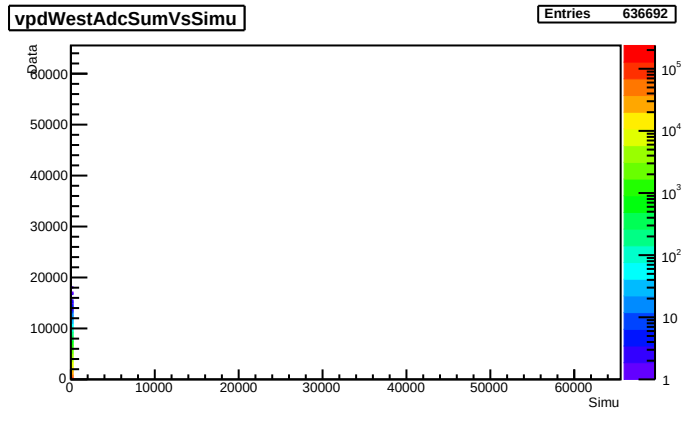

vpdEastAdcSum
Entries 875955

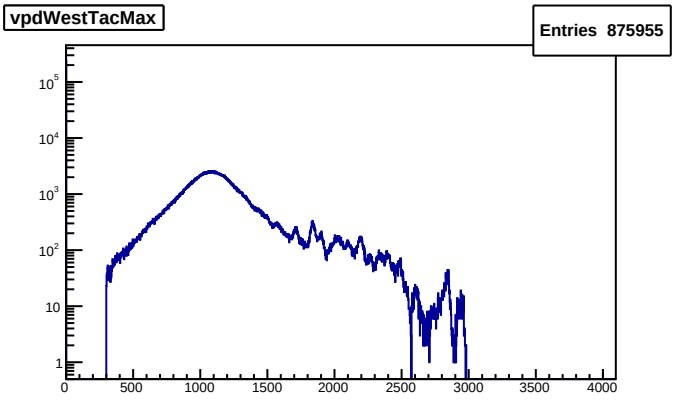

vpdEastAdcSumVsSimu
Entries 453431
Data
Simu

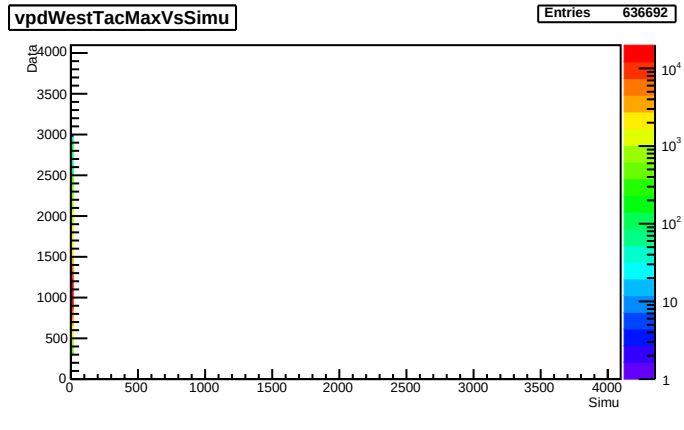

vpdEastTacMax
Entries 875955

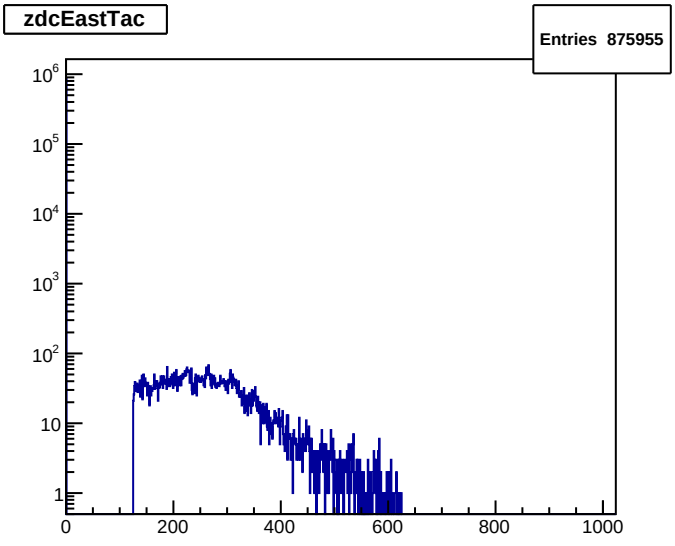

vpdEastTacMaxVsSimu
Entries 453431
Data
Simu

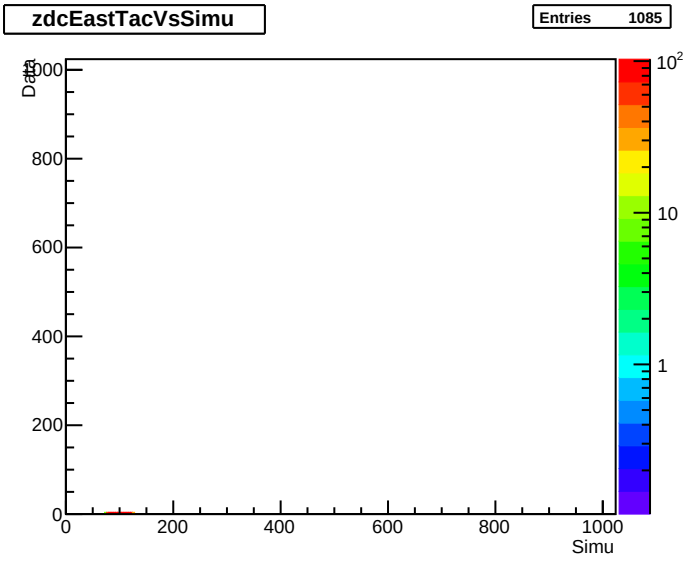

vpdWestAdcSum
Entries 875955

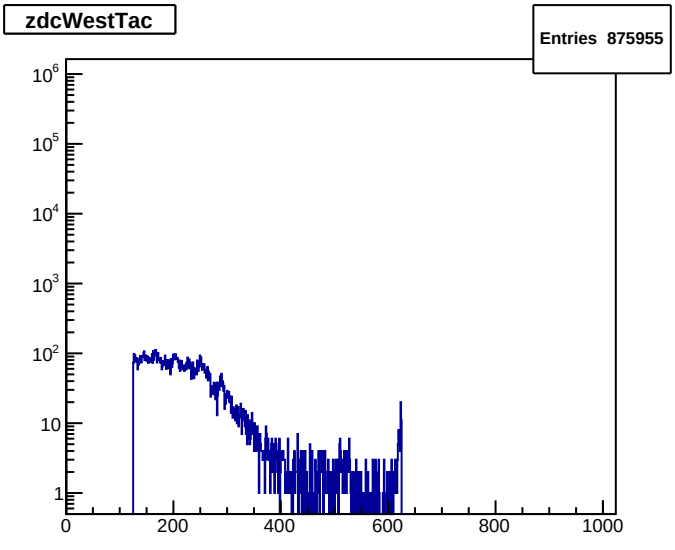

vpdWestAdcSumVsSimu
Entries 636692
Data
Simu

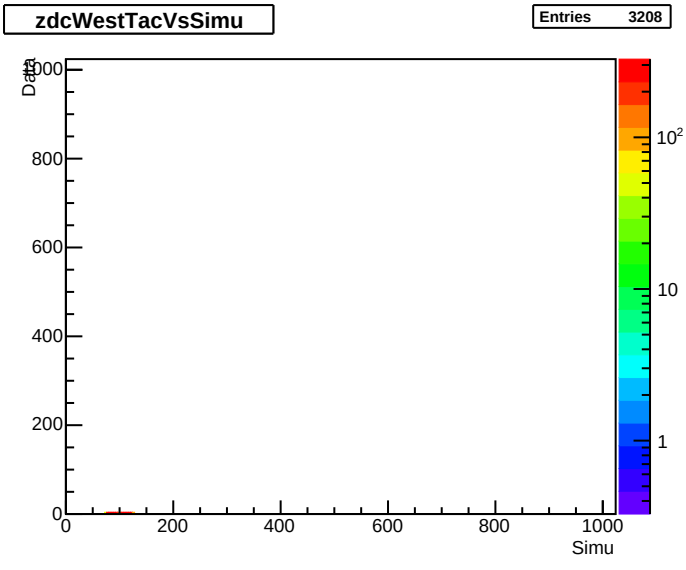

vpdWestTacMax
Entries 875955

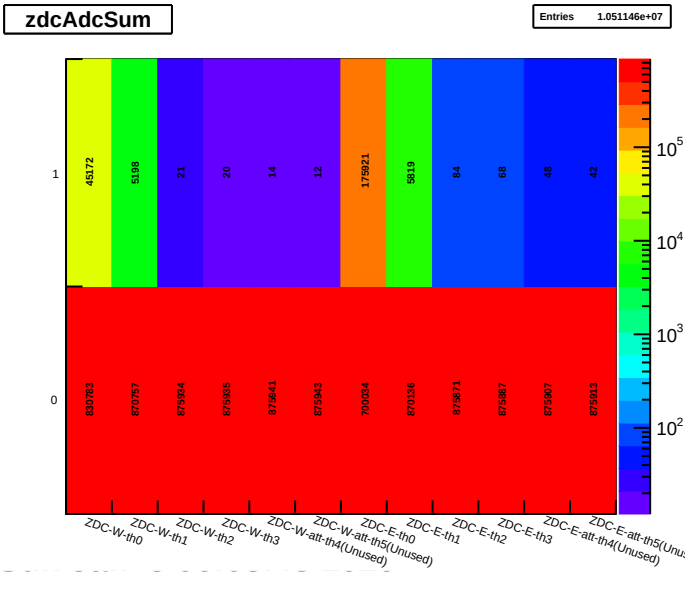

vpdWestTacMaxVsSimu
Entries 636692
Data
Simu

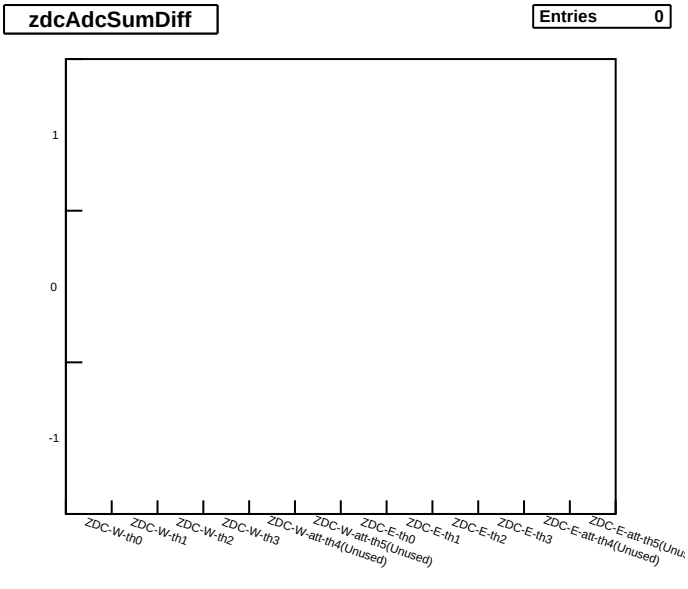

zdcEastTac
Entries 875955

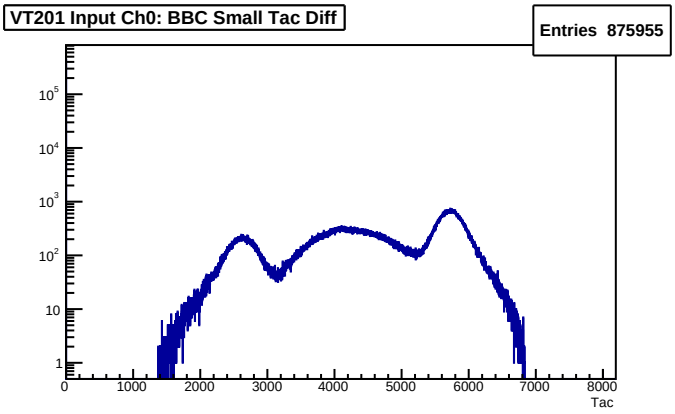

zdcEastTacVsSimu
Entries 1085
Data
Simu

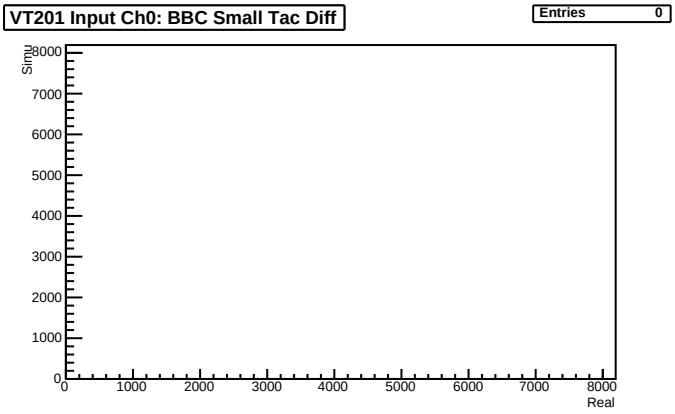

zdcWestTac
Entries 875955

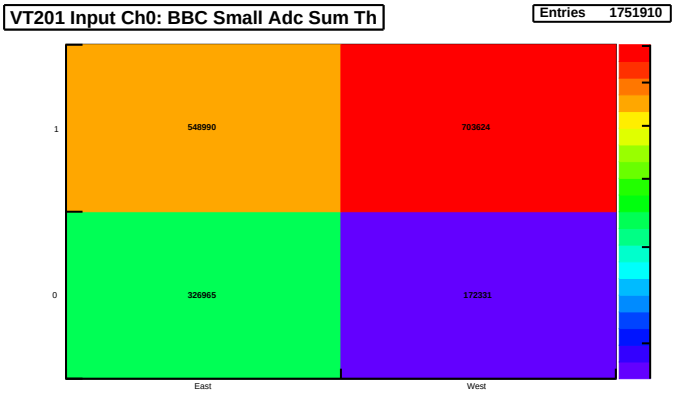

zdcWestTacVsSimu
Entries 3208
Data
Simu

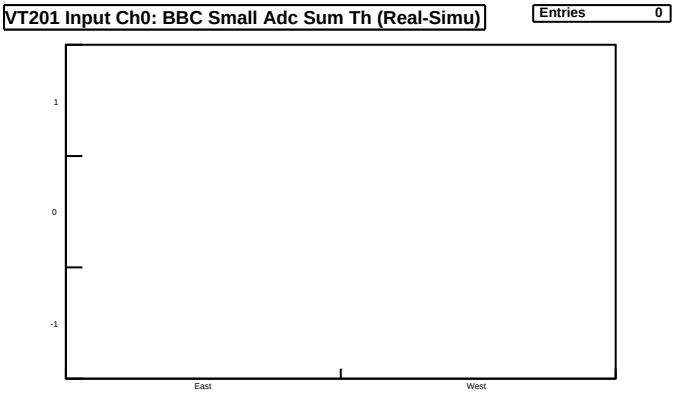

zdcAdcSum
Entries 1.051146e+07
45172
5198
21
20
14
12
179921
5819
84
68
48
42
830783
870757
875934
875935
875941
875943
700034
870136
875871
875887
875907
875913
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

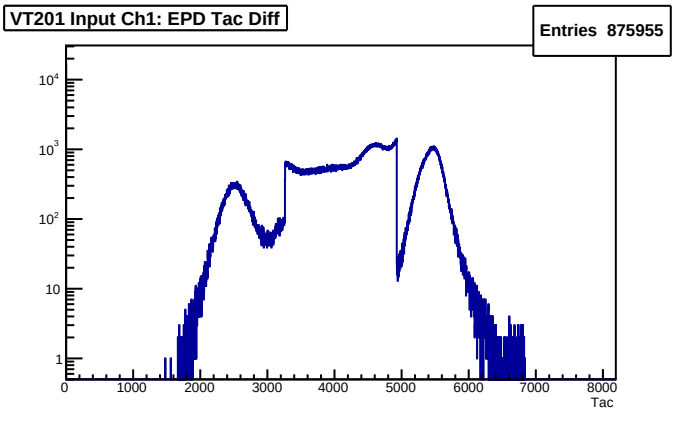

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

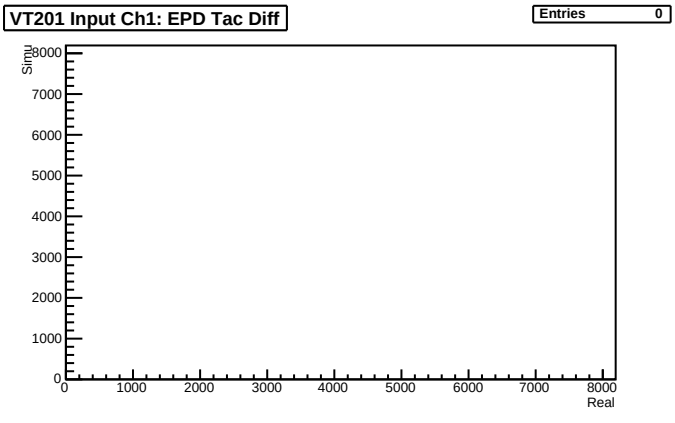

VT201 Input Ch0: BBC Small Tac Diff
Entries 875955
Tac

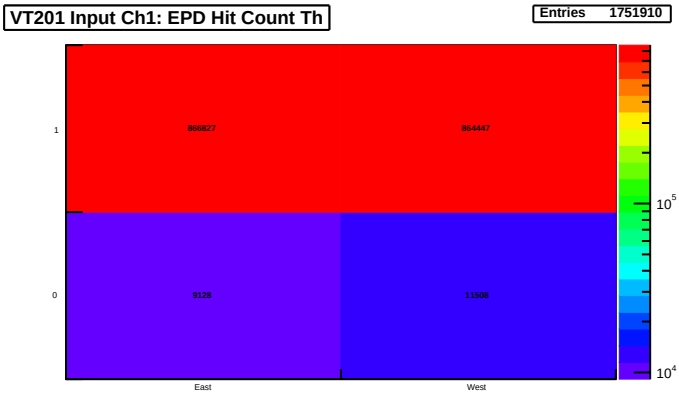

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

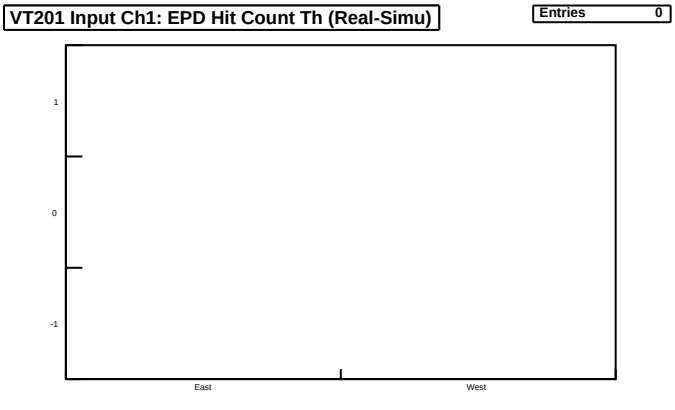

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1751910
548990
703624
326965
172331
East
West

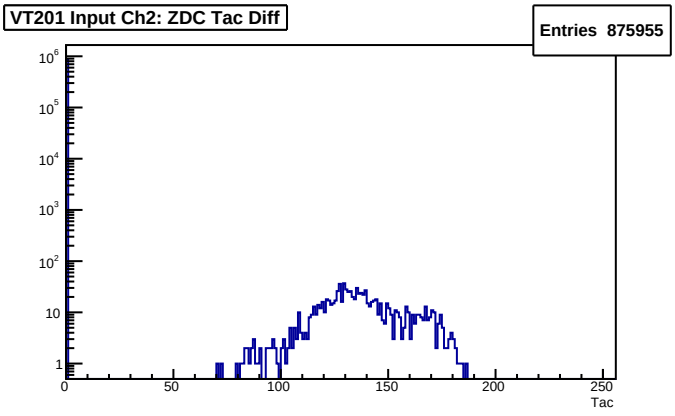

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

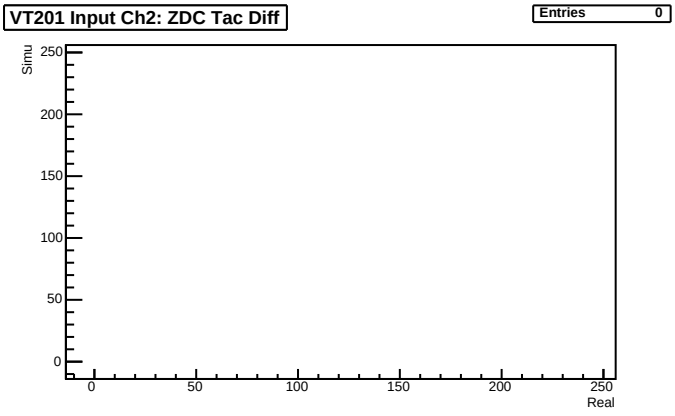

VT201 Input Ch1: EPD Tac Diff
Entries 875955
Tac

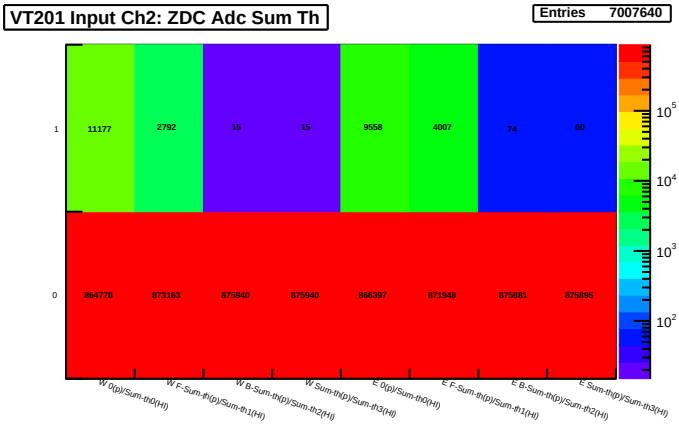

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

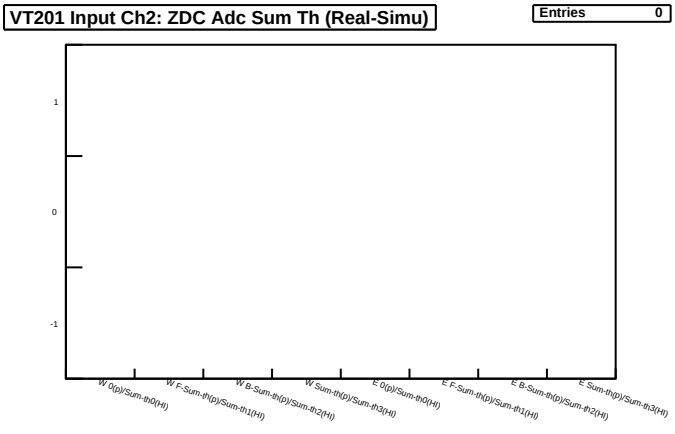

VT201 Input Ch1: EPD Hit Count Th
Entries 1751910
866827
864447
9128
11508
East
West

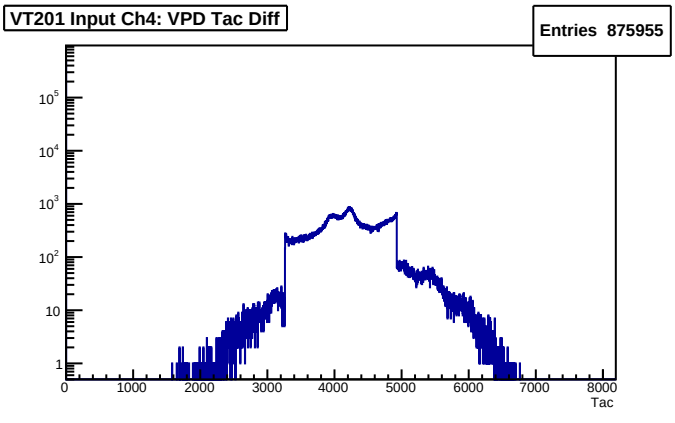

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

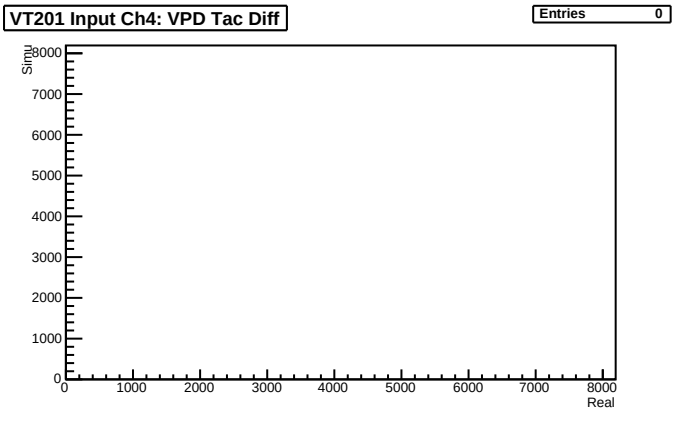

VT201 Input Ch2: ZDC Tac Diff
Entries 875955
Tac

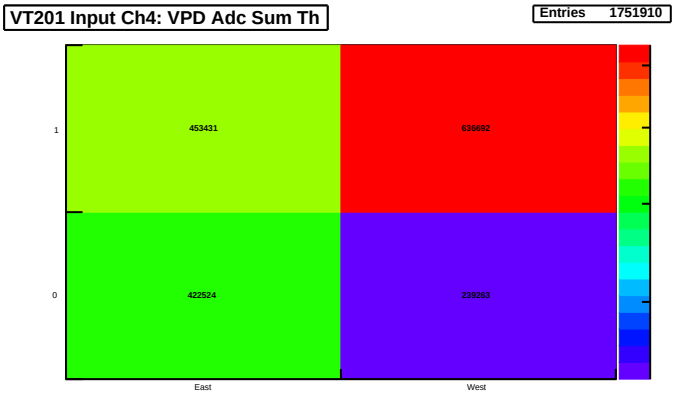

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

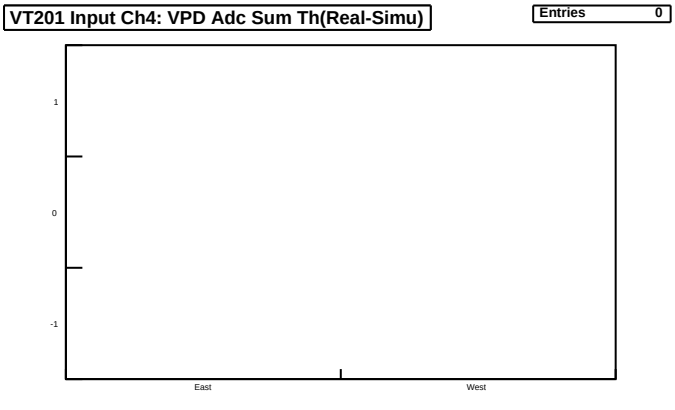

VT201 Input Ch2: ZDC Adc Sum Th
Entries 7007640
11177
2792
15
15
9558
4007
74
60
864778
873163
875940
875940
866397
871948
875881
875895
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

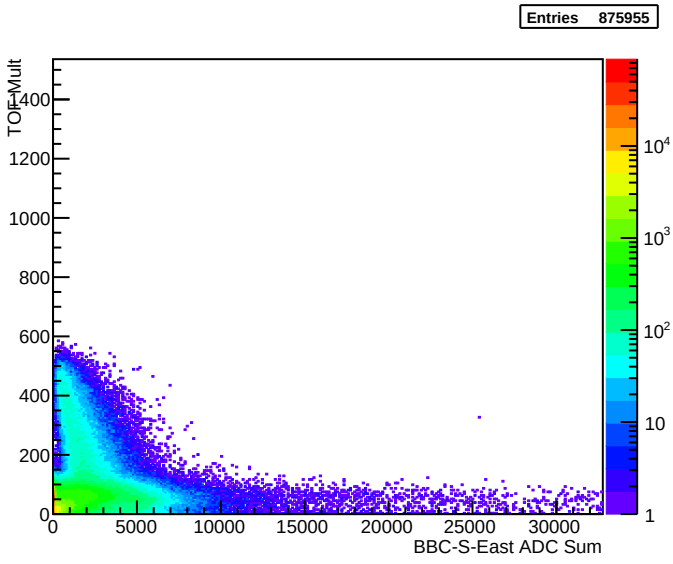

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

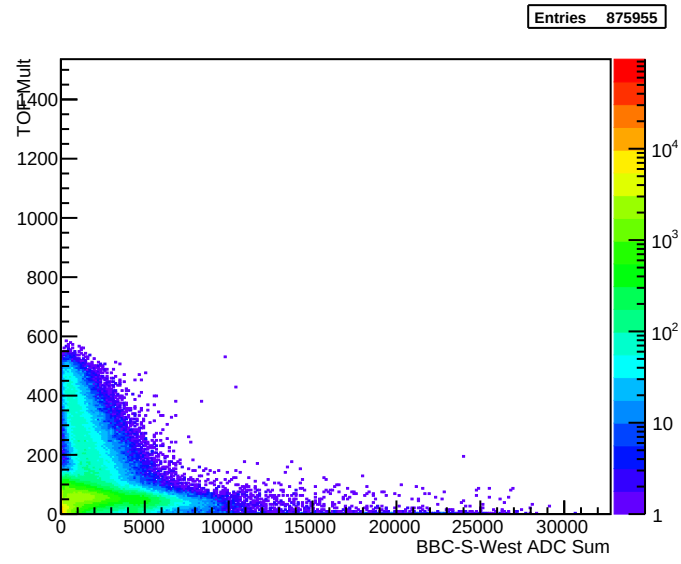

VT201 Input Ch4: VPD Tac Diff
Entries 875955
Tac

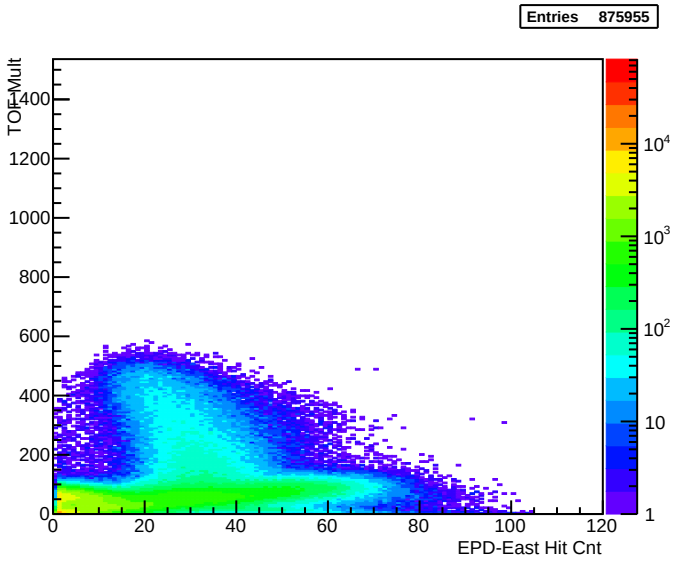

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

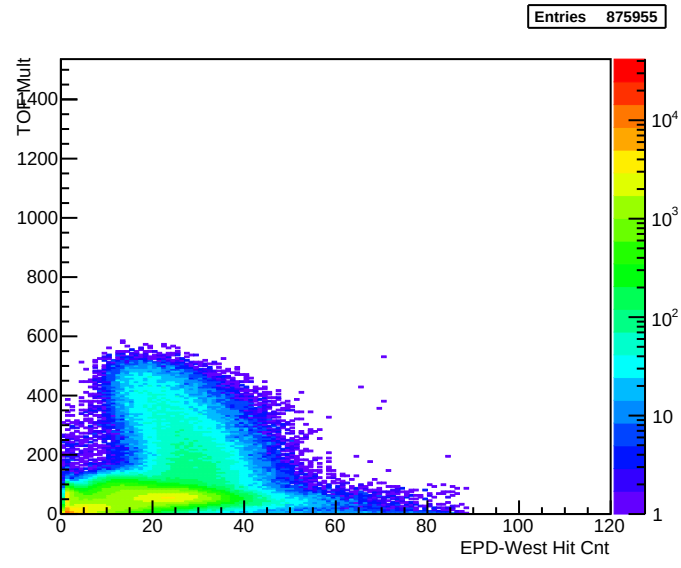

VT201 Input Ch4: VPD Adc Sum Th
Entries 1751910
453431
636692
422524
239263
East
West

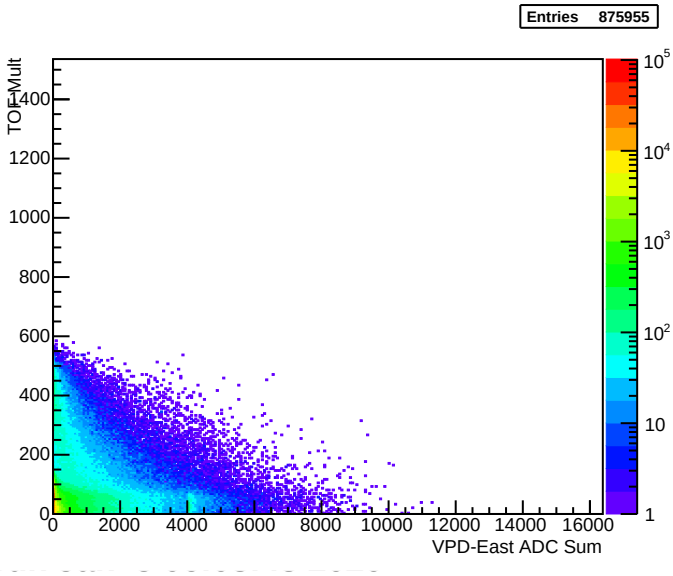

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

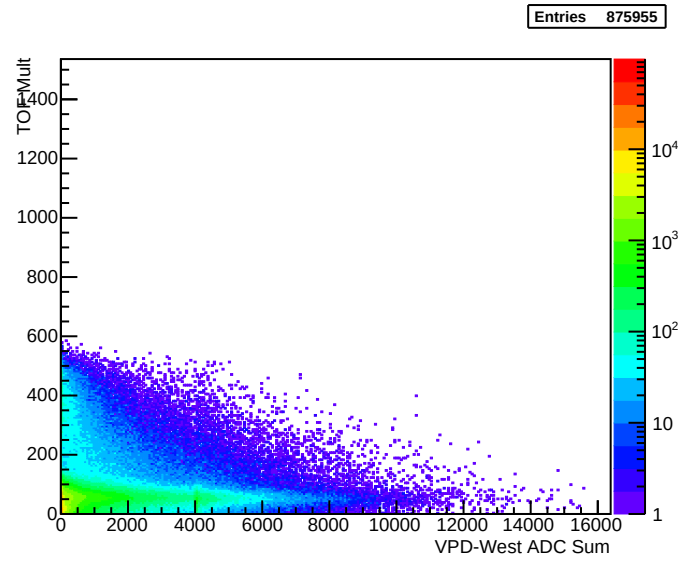

Entries 875955
TOF-Mult
BBC-S-East ADC Sum

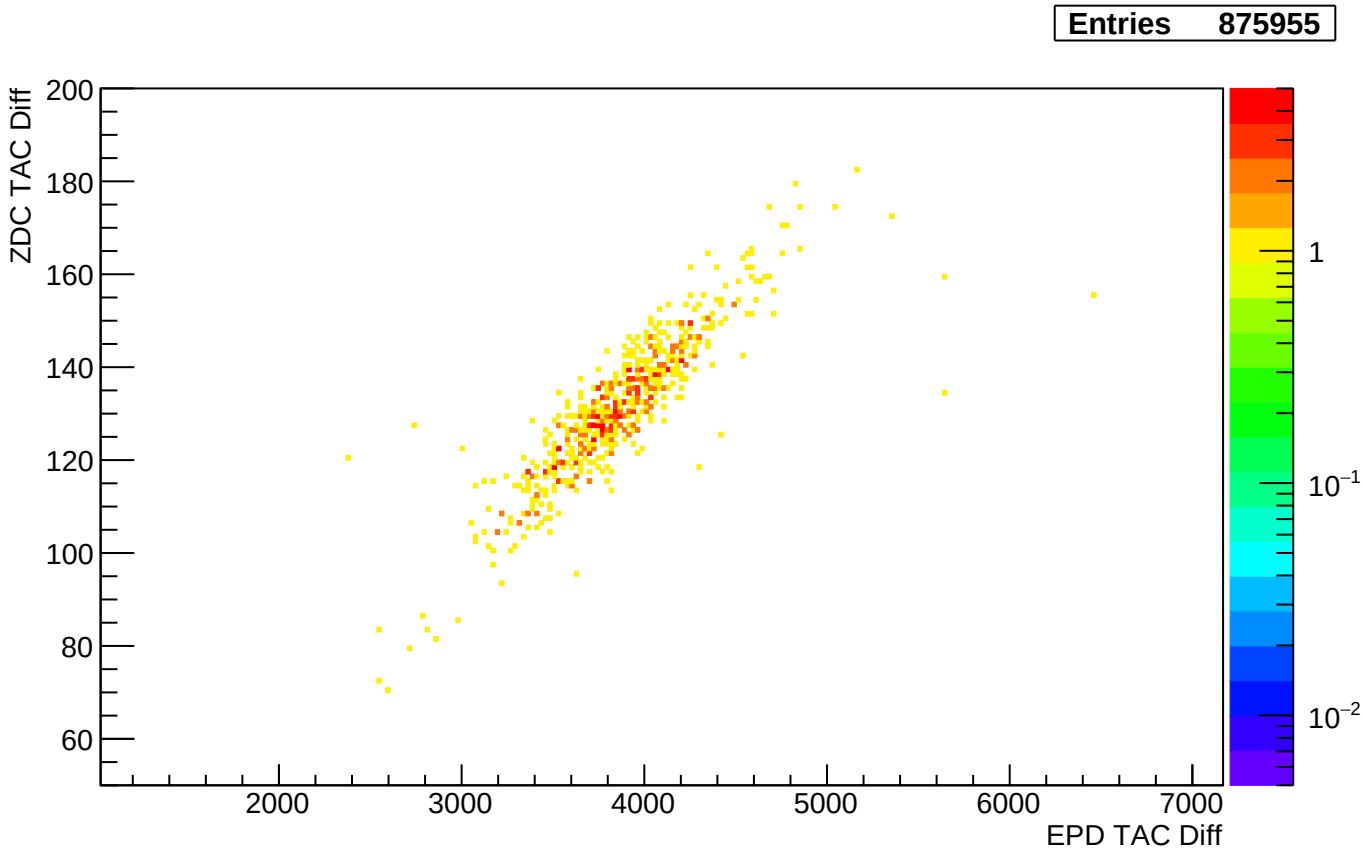

Entries 875955
TOF-Mult
BBC-S-West ADC Sum

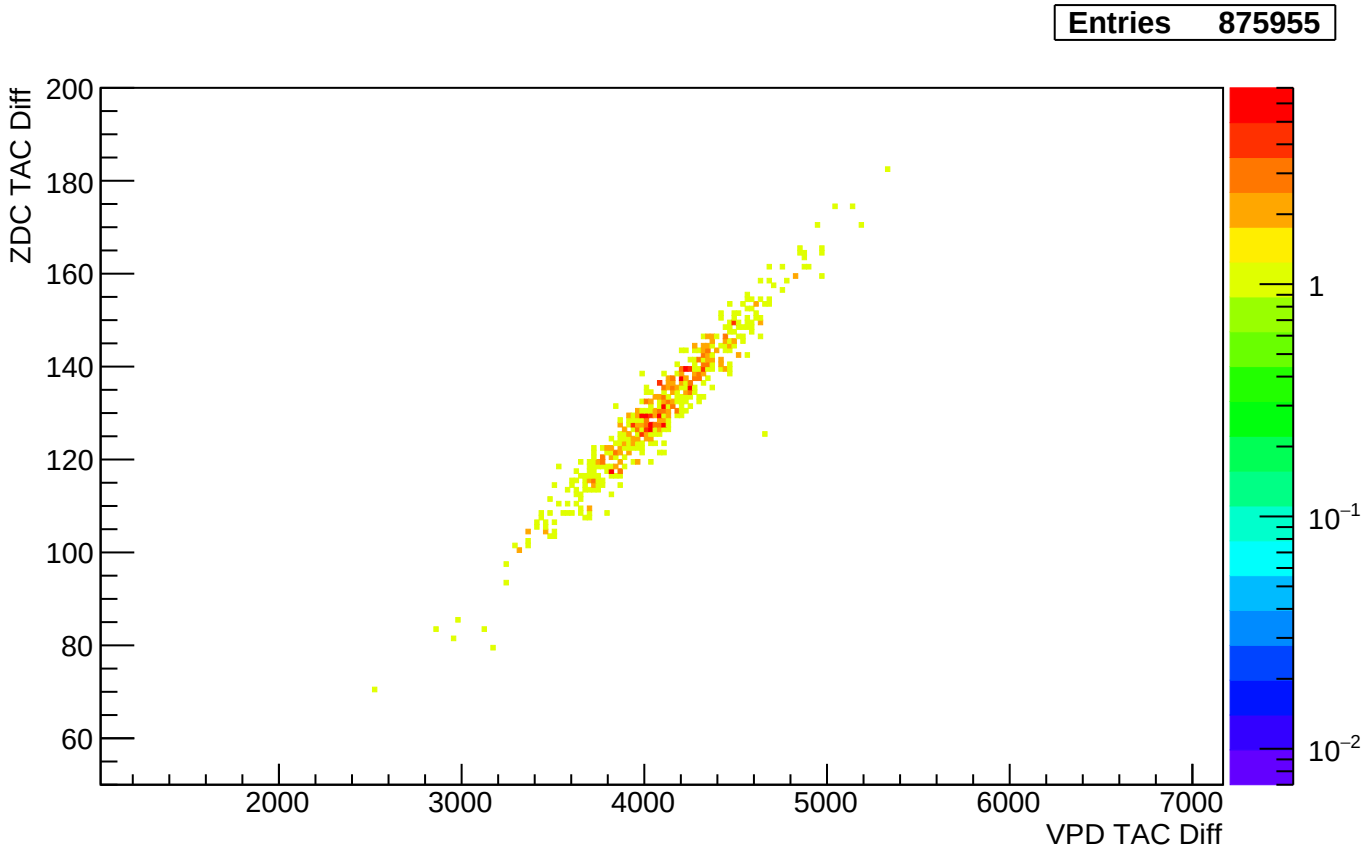

Entries 875955
TOF-Mult
EPD-East Hit Cnt

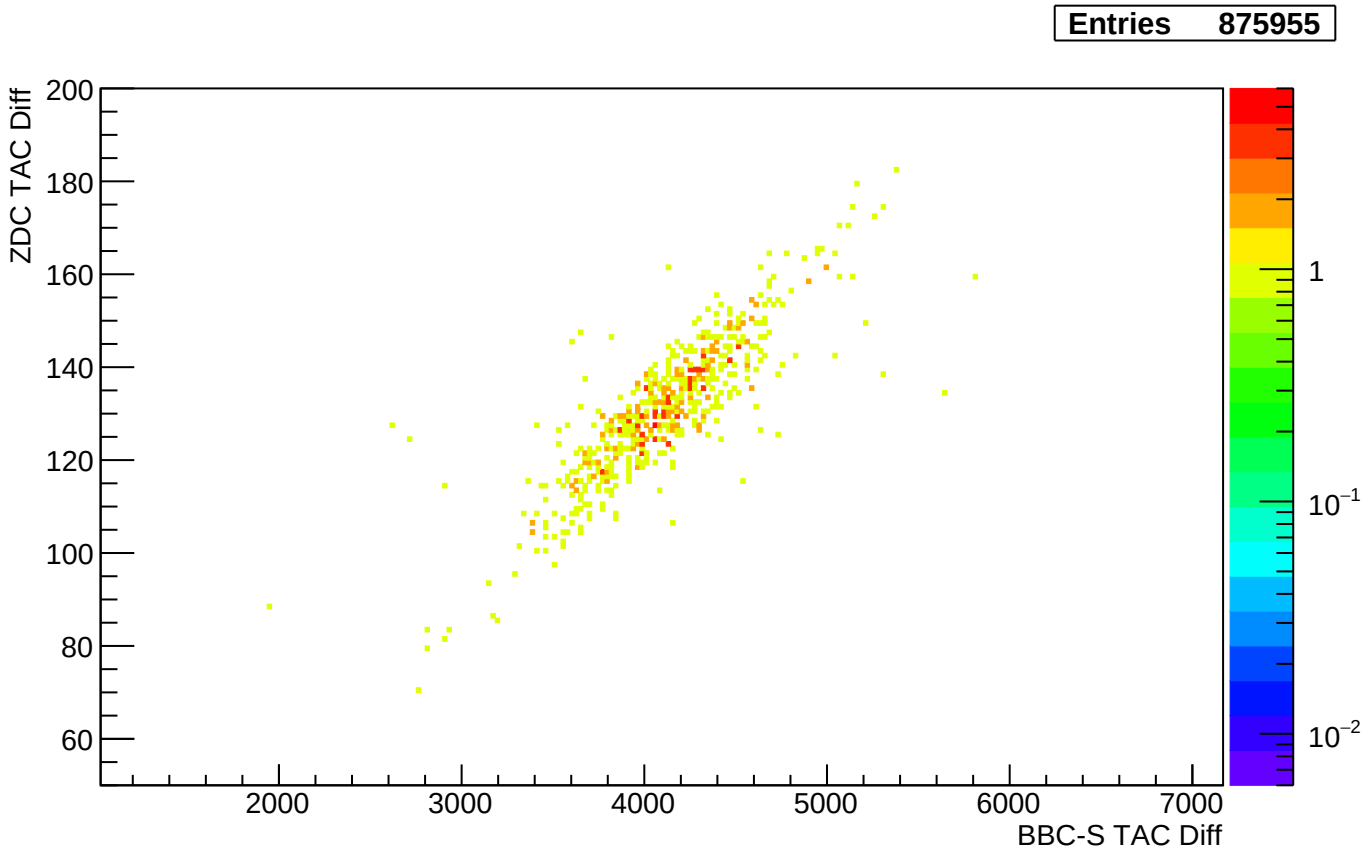

Entries 875955
TOF-Mult
EPD-West Hit Cnt

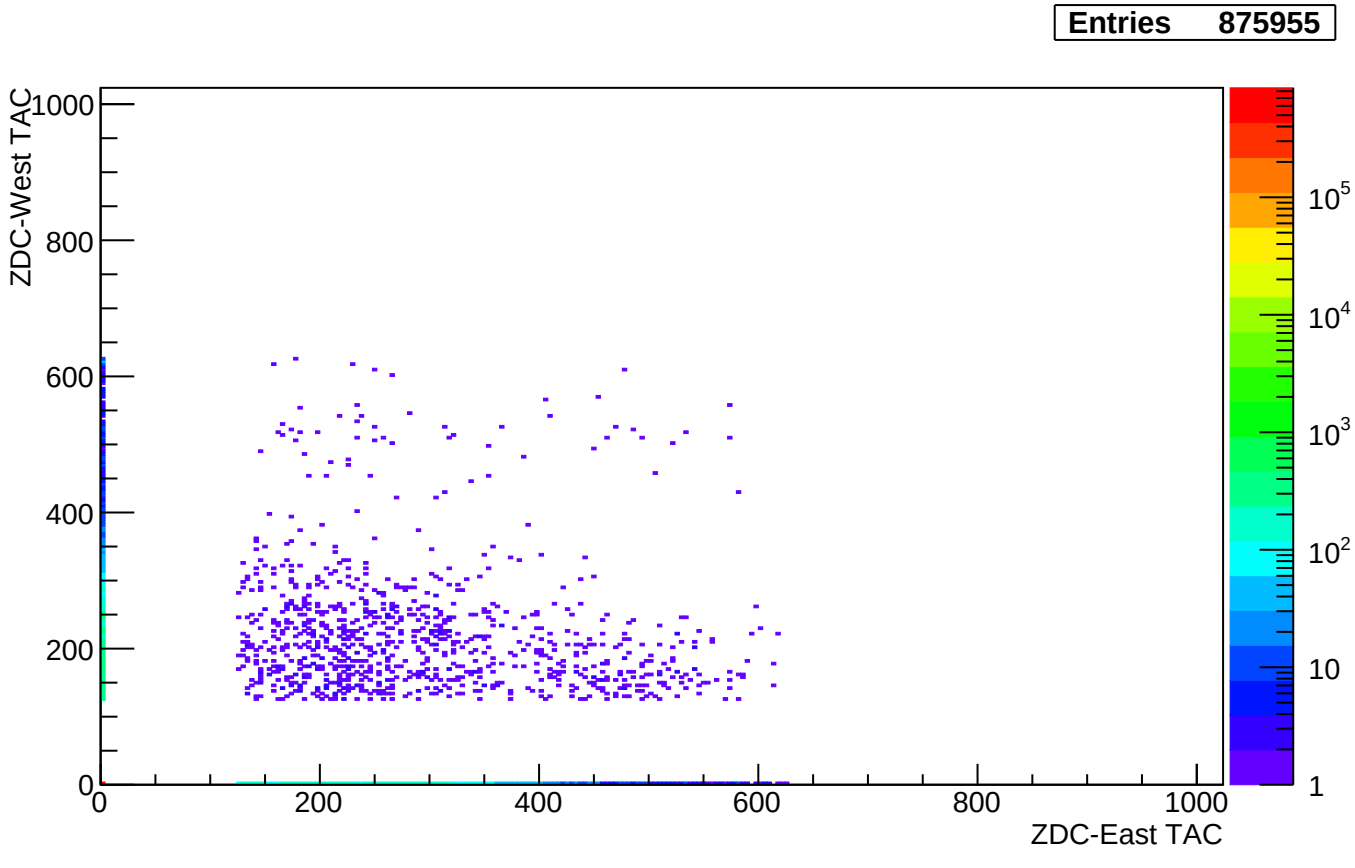

Entries 875955
TOF-Mult
VPD-East ADC Sum

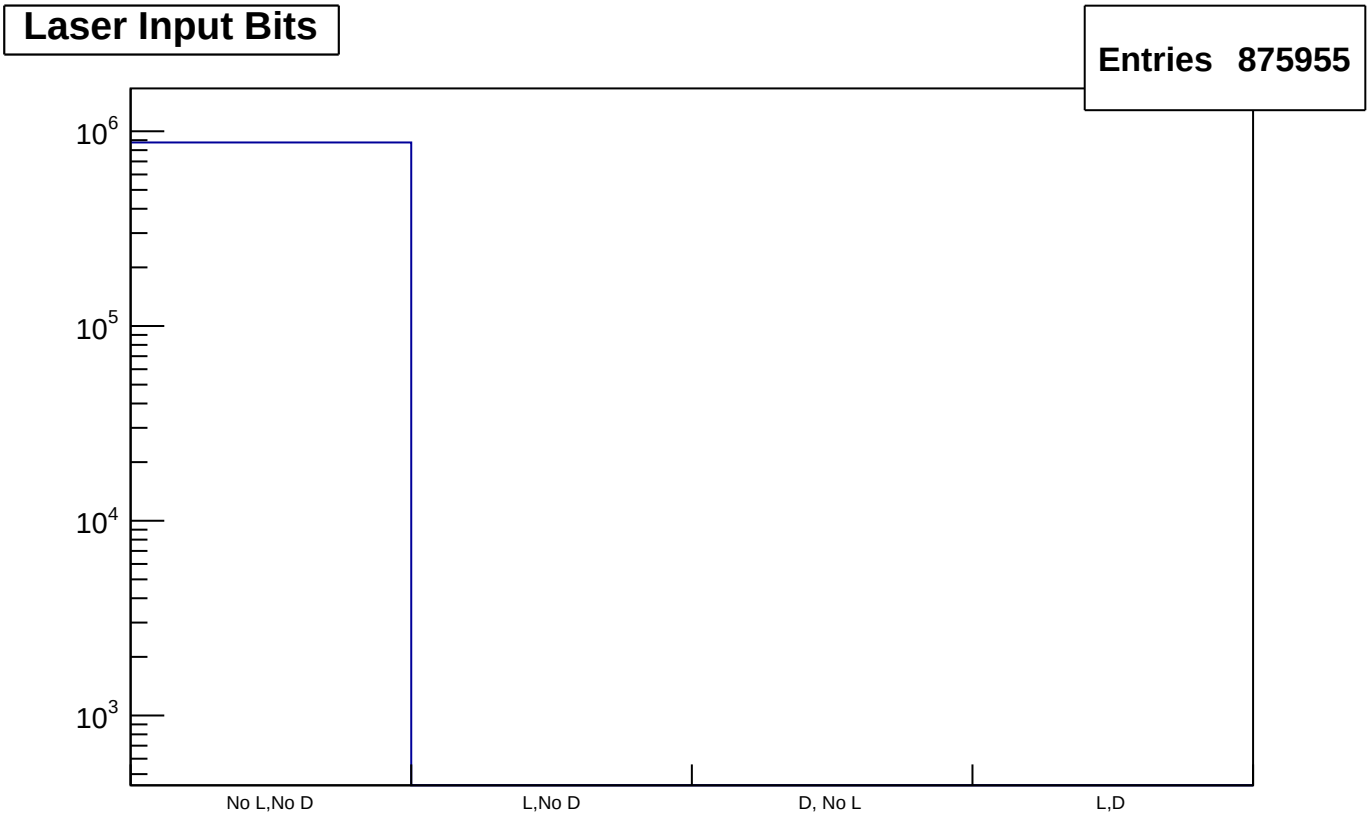

Entries 875955
TOF-Mult
VPD-West ADC Sum

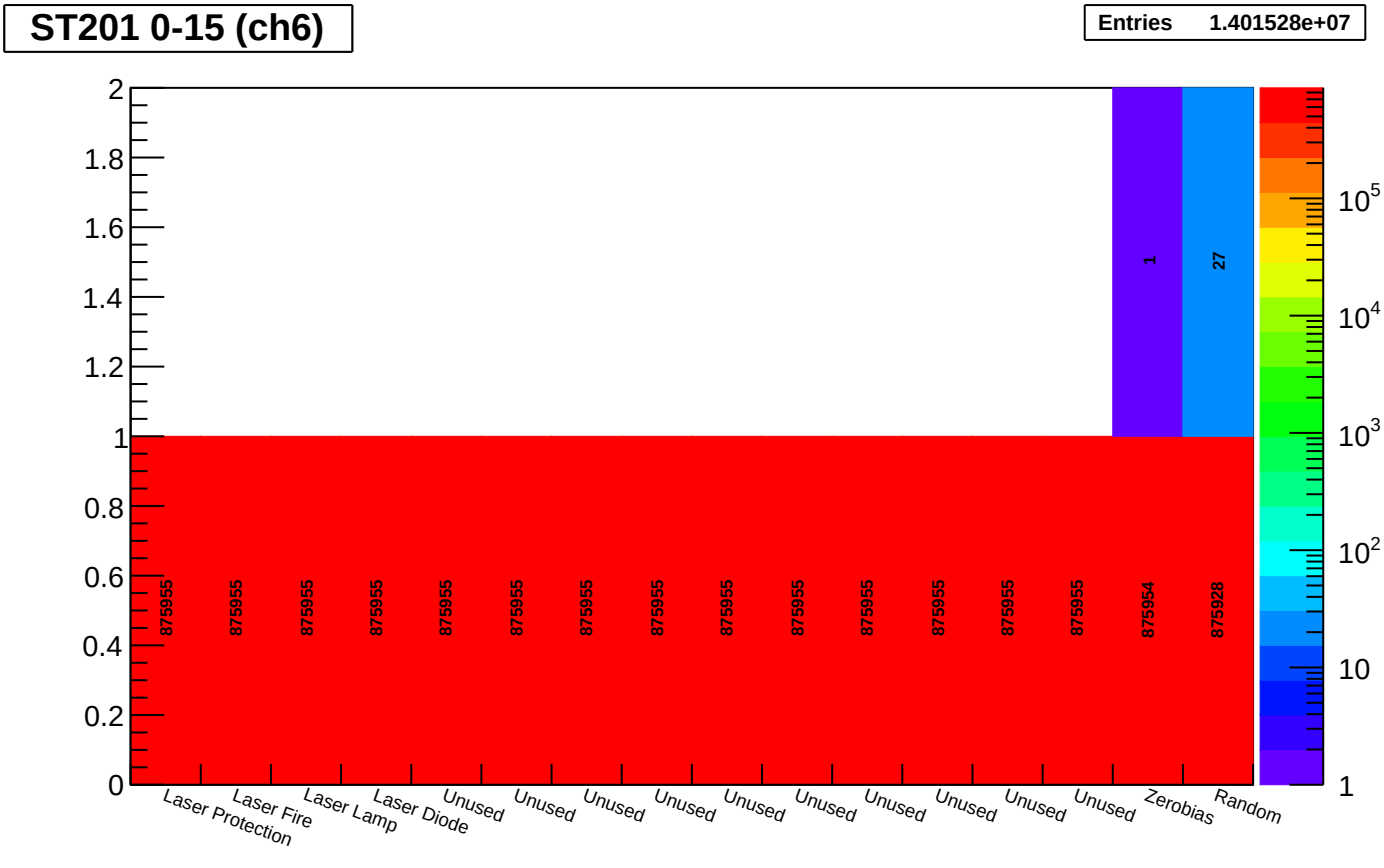

Entries 875955
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
EPD TAC Diff
1
10^{-1}
10^{-2}

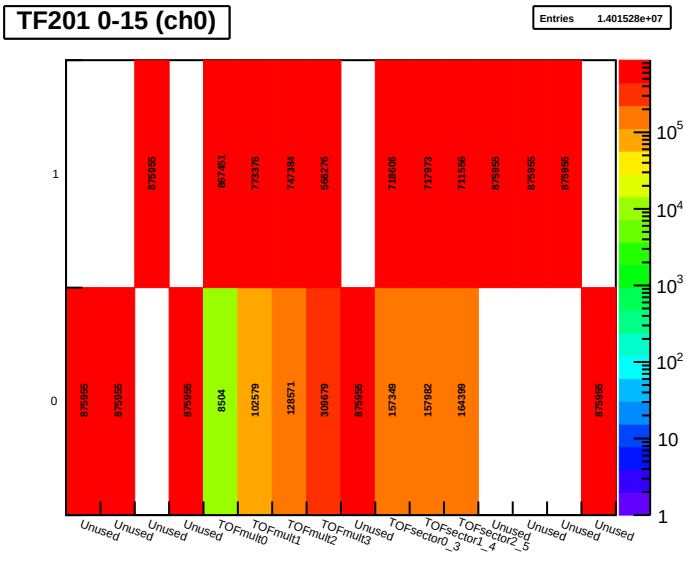

Entries 875955
ZDC TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

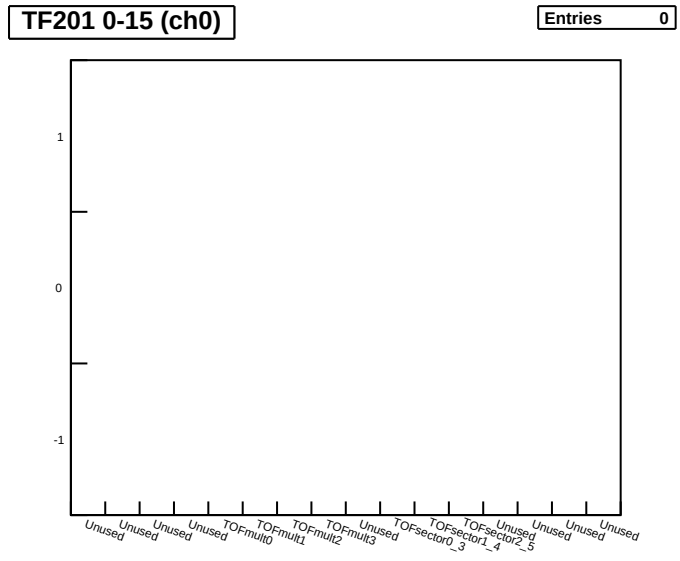

Entries 875955
ZDC TAC Diff
BBC-S TAC Diff
200
180
160
140
120
100
80
60
2000
3000
4000
5000
6000
7000
1
10^{-1}
10^{-2}

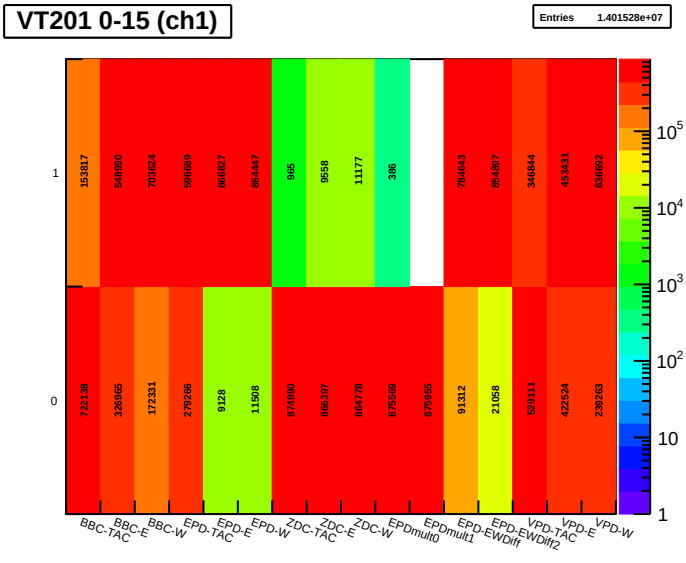

Entries 875955
ZDC-West TAC
ZDC-East TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
10^5
10^4
10^3
10^2
10
1

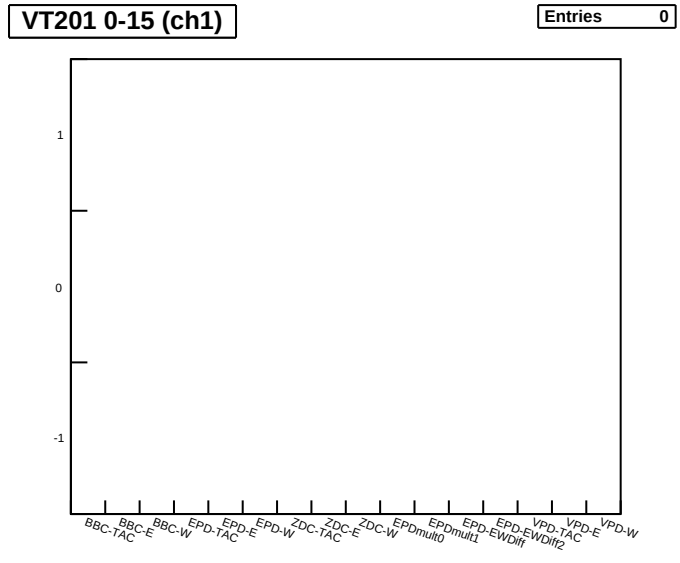

Laser Input Bits
Entries 875955
10^6
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

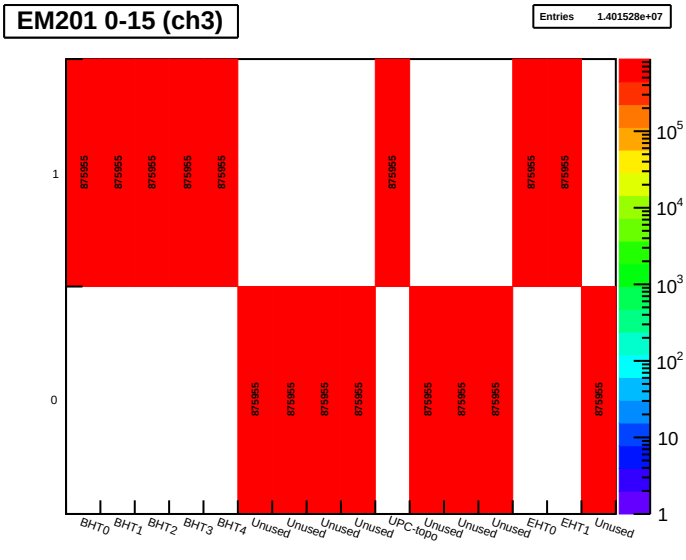

ST201 0-15 (ch6)
Entries 1.401528e+07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
875955
875955
875955
875955
875955
875955
875955
875955
875955
875955
875955
875955
875955
875955
875954
875928
1
27
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

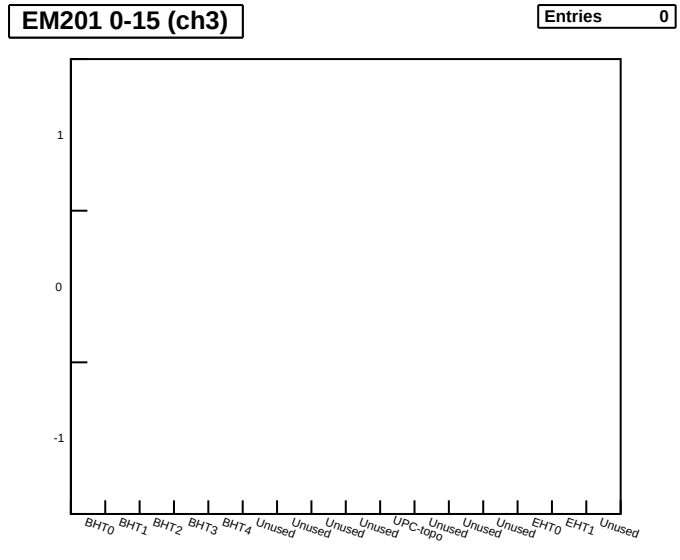

TF201 0-15 (ch0)
Entries 1.401528e+07
875955 867461 773376 747384 566276 718606 717973 711556 875955 875955 875955
875955 875955 875955 8504 102579 128571 309679 875955 157349 157982 164399 875955
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused


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


VT201 0-15 (ch1)
Entries 1.401528e+07
153817 548990 703624 596689 866827 864447 965 9558 11177 386 784643 854897 346844 453431 636682
722138 328965 172331 279266 9128 11508 874990 866397 864778 875569 875955 91312 21068 529111 422524 239263
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


VT201 0-15 (ch1)
Entries 0
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 1.401528e+07
875955 875955 875955 875955 875955 875955 875955 875955
875955 875955 875955 875955 875955 875955 875955 875955
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused


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