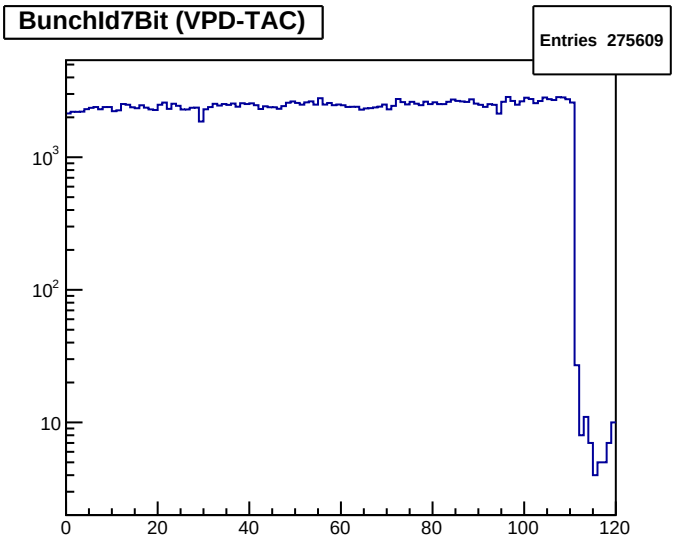
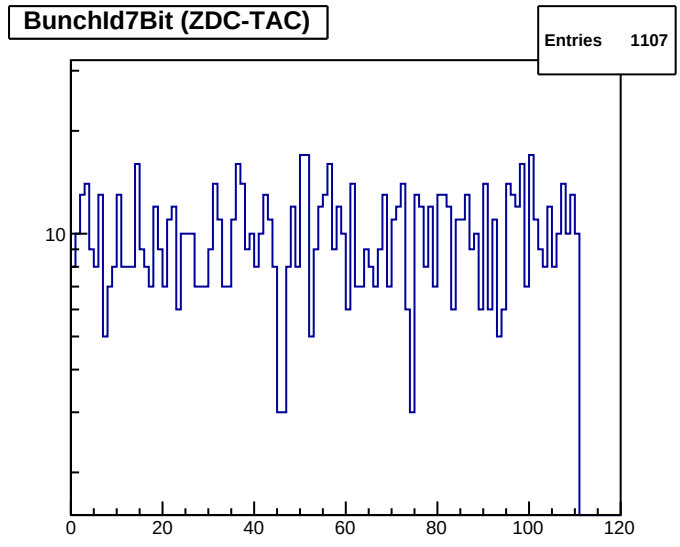
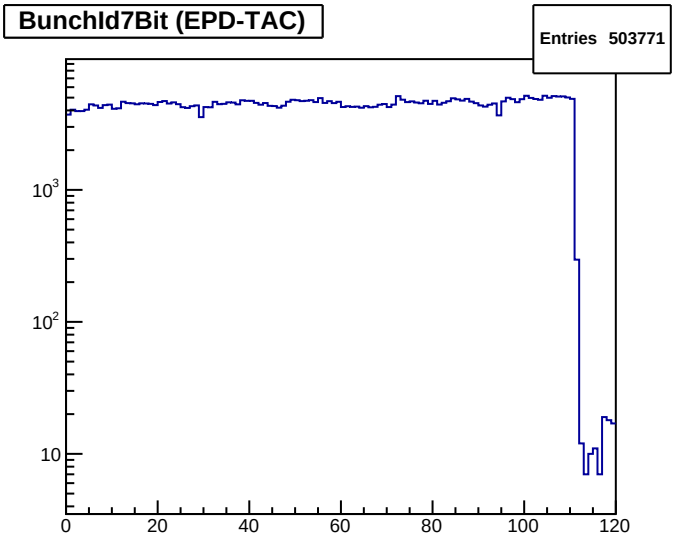
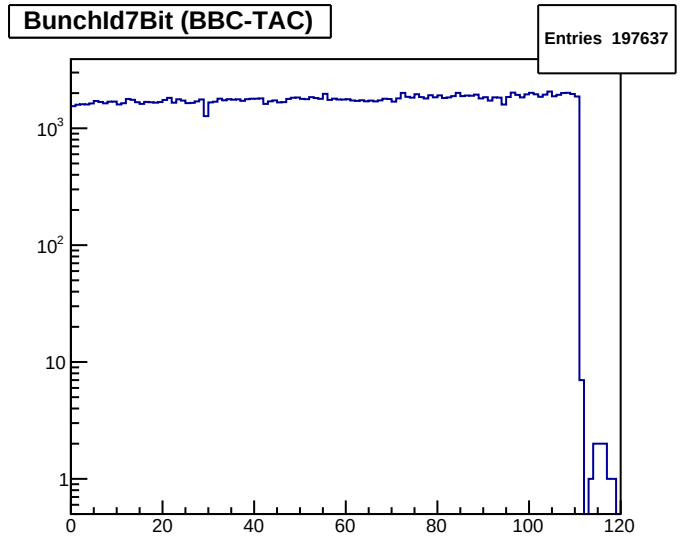
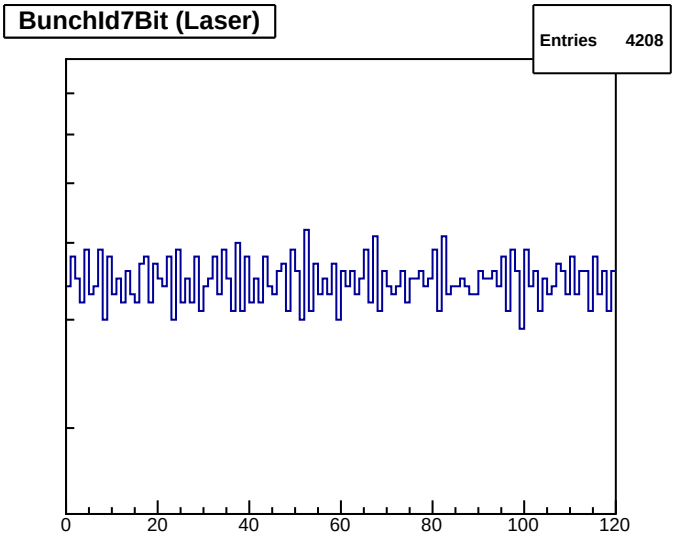
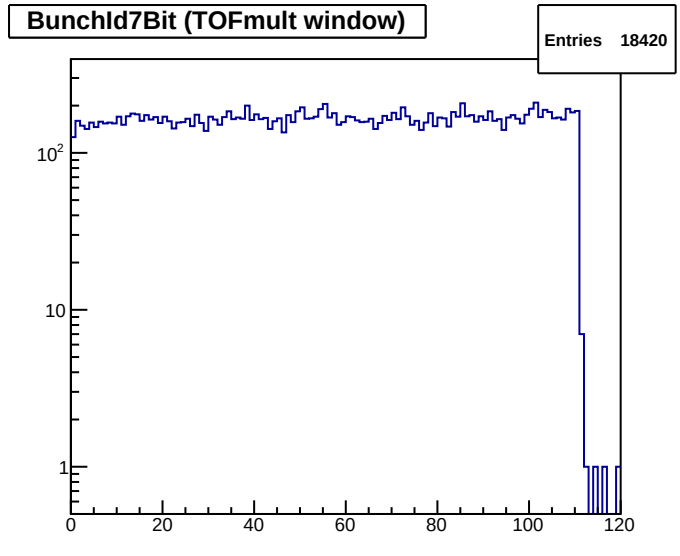

BunchId7Bit (VPD-TAC)
Entries 275609
10^3
10^2
10
0 20 40 60 80 100 120

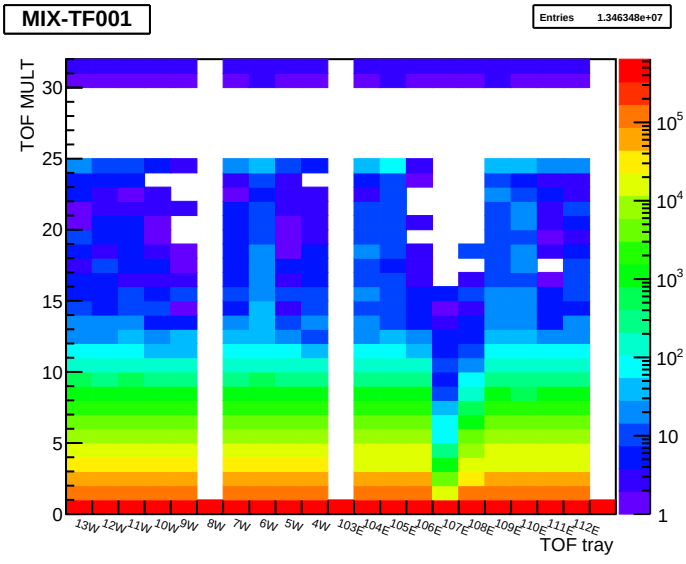

BunchId7Bit (ZDC-TAC)
Entries 1107
10
0 20 40 60 80 100 120

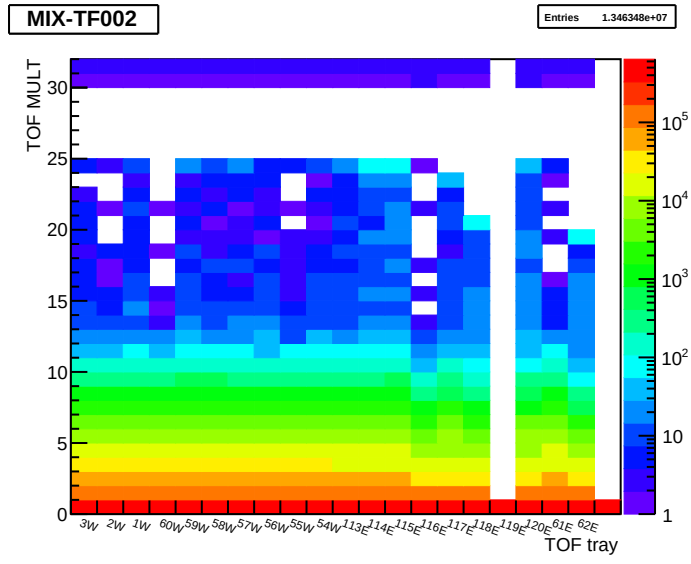

BunchId7Bit (EPD-TAC)
Entries 503771
10^3
10^2
10
0 20 40 60 80 100 120

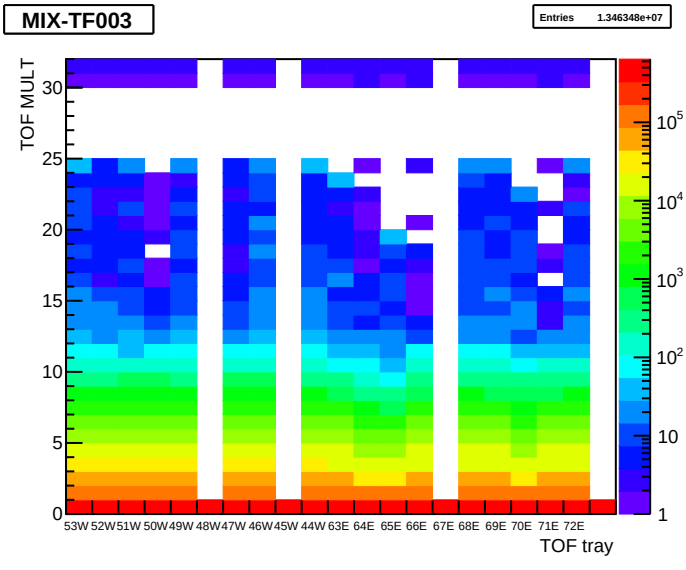

BunchId7Bit (BBC-TAC)
Entries 197637
10^3
10^2
10
1
0 20 40 60 80 100 120

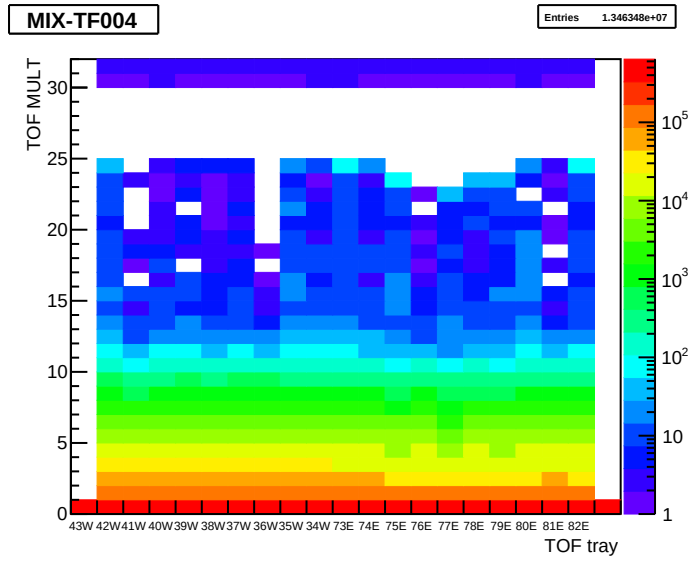

BunchId7Bit (Laser)
Entries 4208
0 20 40 60 80 100 120

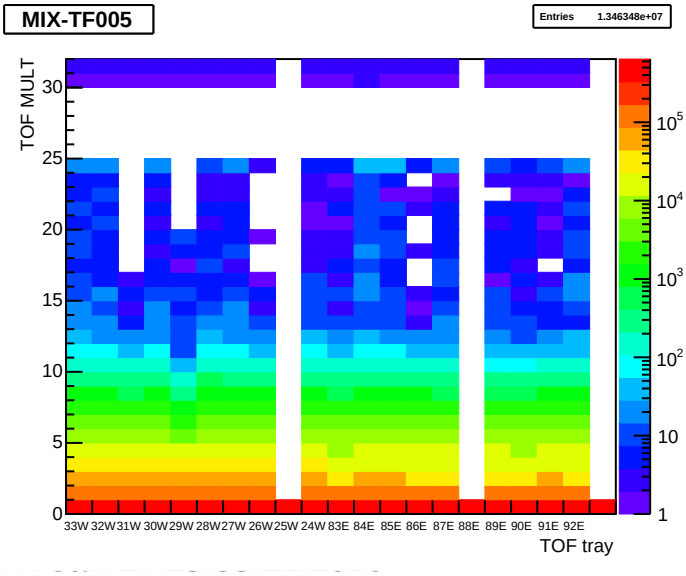

BunchId7Bit (TOFmult window)
Entries 18420
10^2
10
1
0 20 40 60 80 100 120

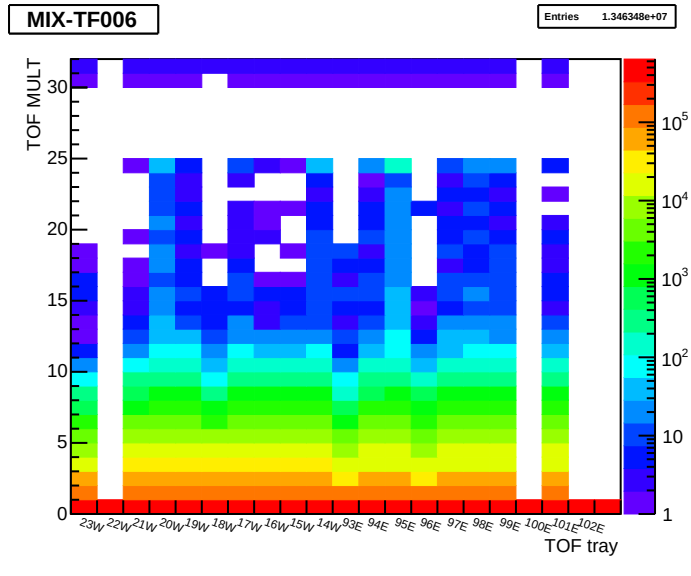

MIX-TF001
Entries 1.346348e+07
TOF MULT
TOF tray

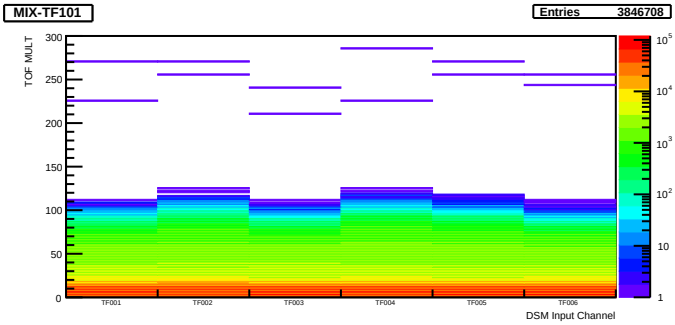

MIX-TF002
Entries 1.346348e+07
TOF MULT
TOF tray

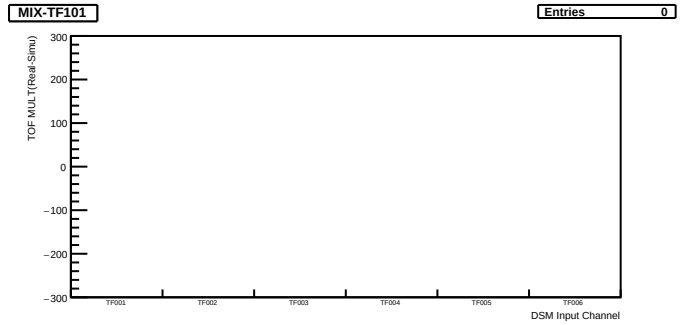

MIX-TF003
Entries 1.346348e+07
TOF MULT
TOF tray

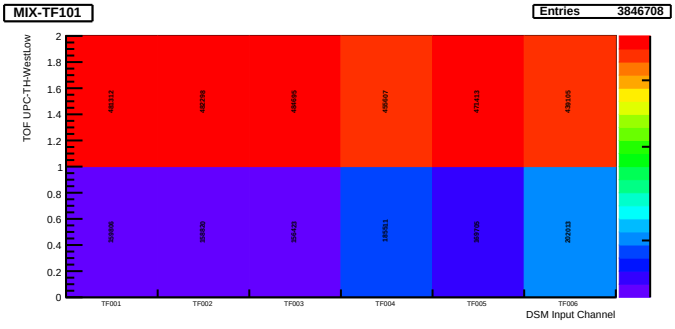

MIX-TF004
Entries 1.346348e+07
TOF MULT
TOF tray

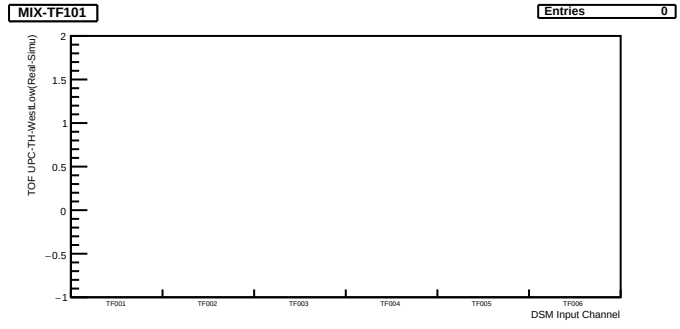

MIX-TF005
Entries 1.346348e+07
TOF MULT
TOF tray

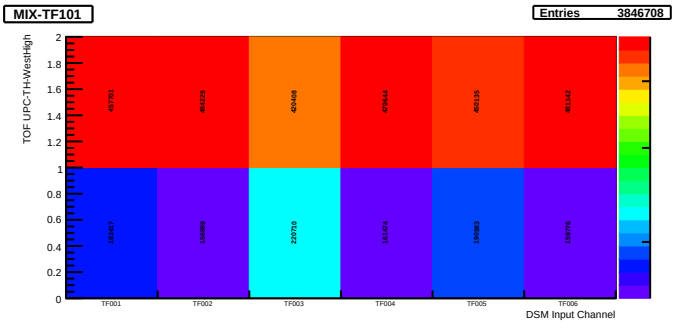

MIX-TF006
Entries 1.346348e+07
TOF MULT
TOF tray

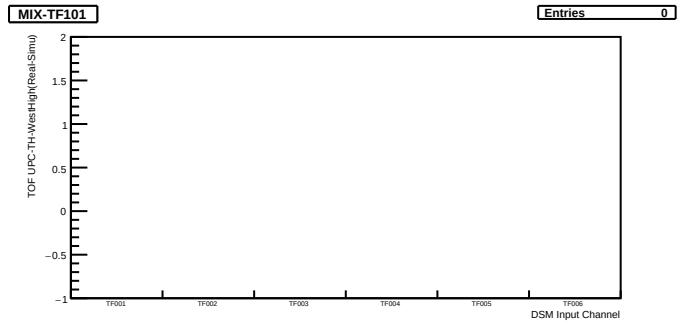

MIX-TF101
Entries 3846708
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

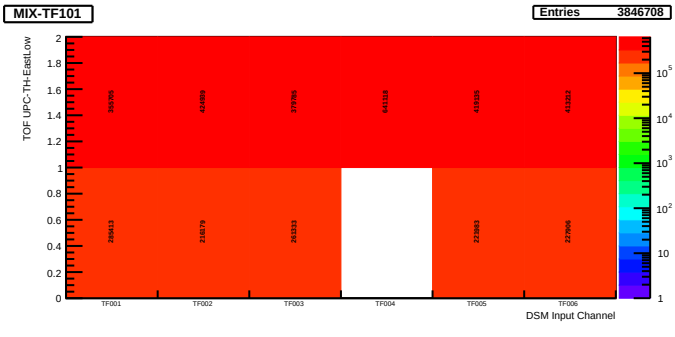

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

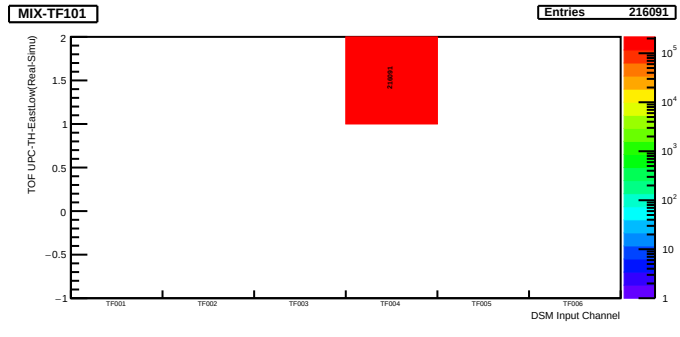

MIX-TF101
Entries 3846708
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

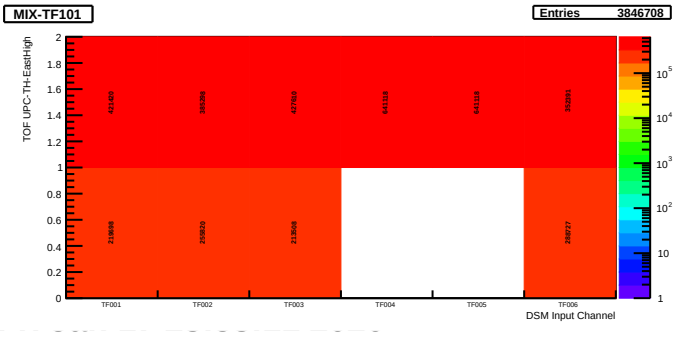

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

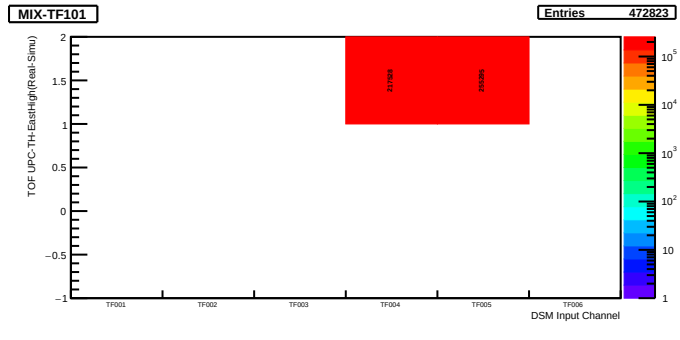

MIX-TF101
Entries 3846708
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

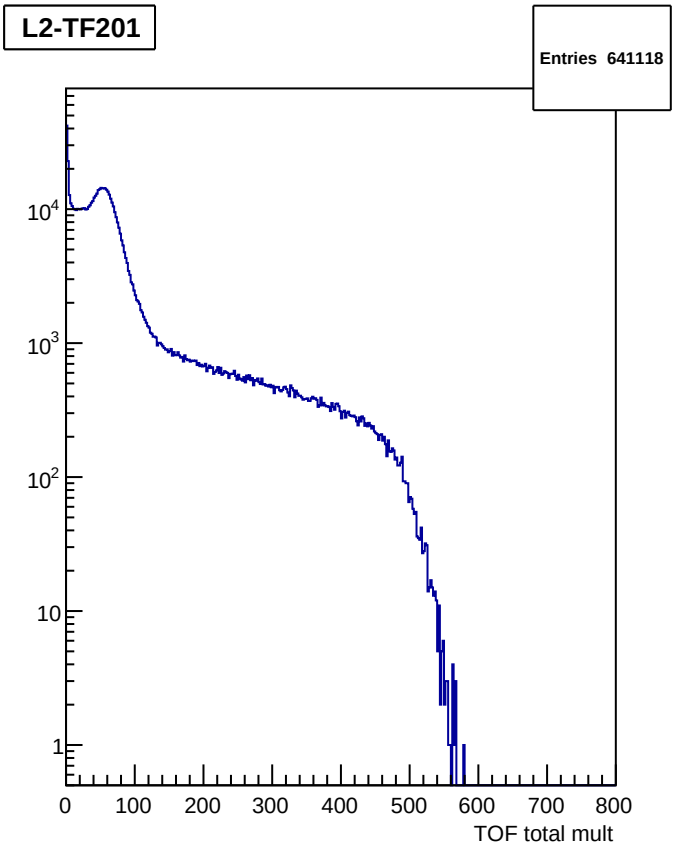

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

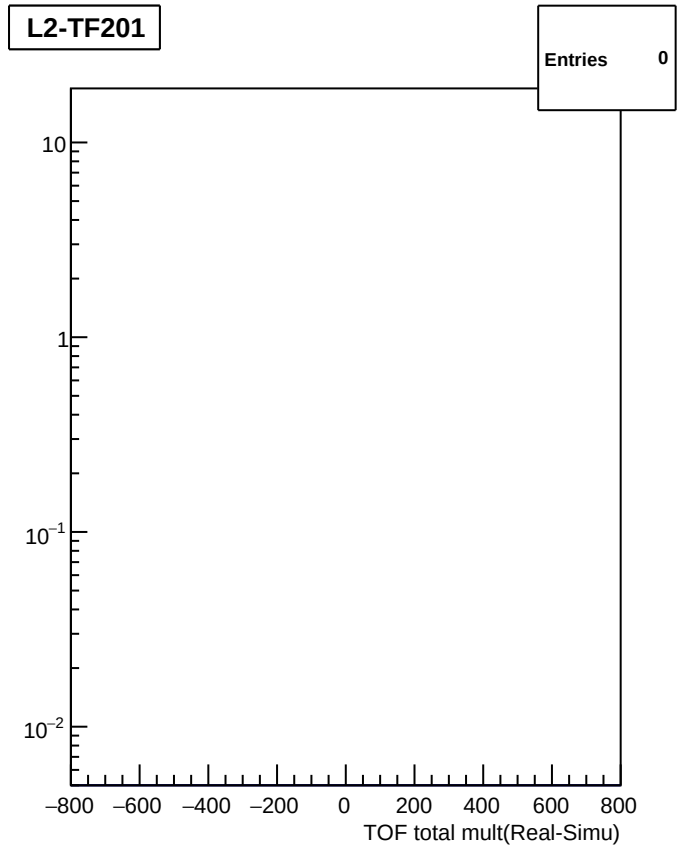

MIX-TF101
Entries 3846708
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

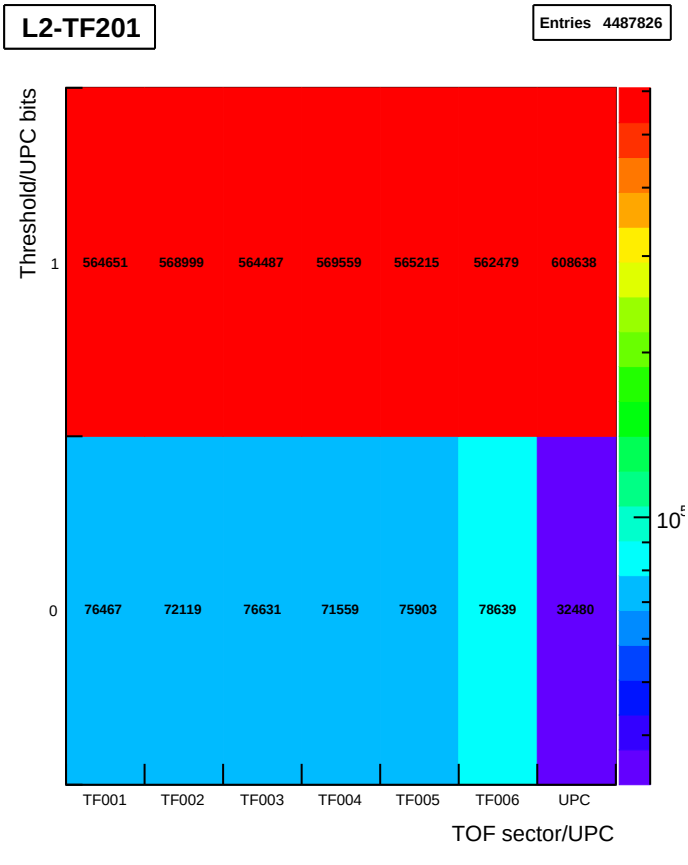

MIX-TF101
Entries 216091
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

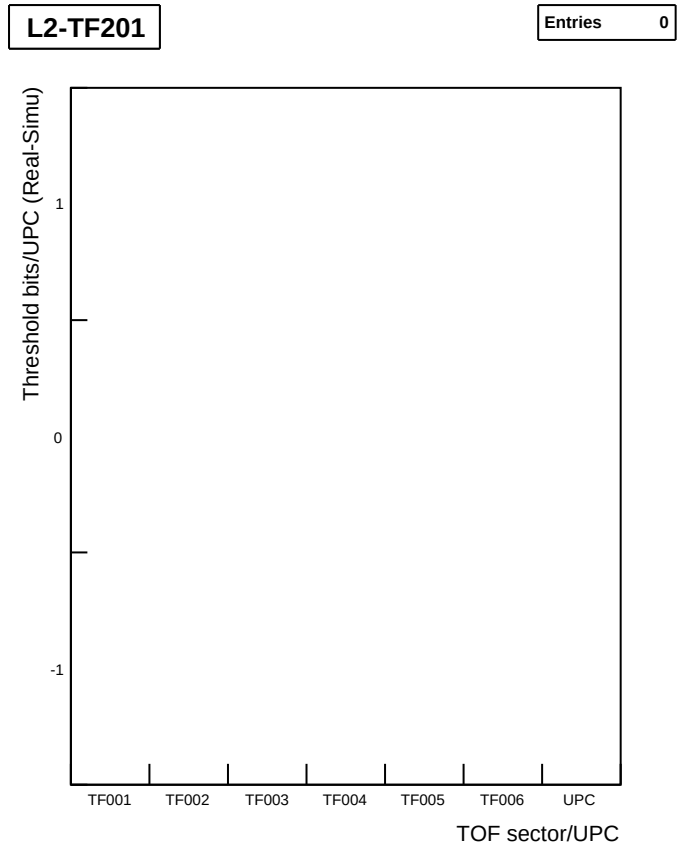

MIX-TF101
Entries 3846708
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

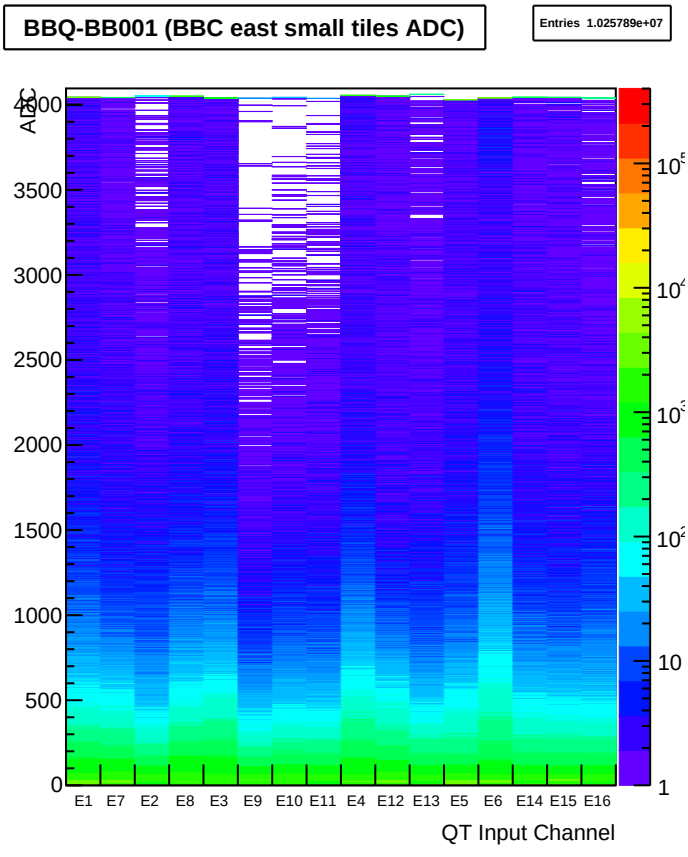

MIX-TF101
Entries 472823
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

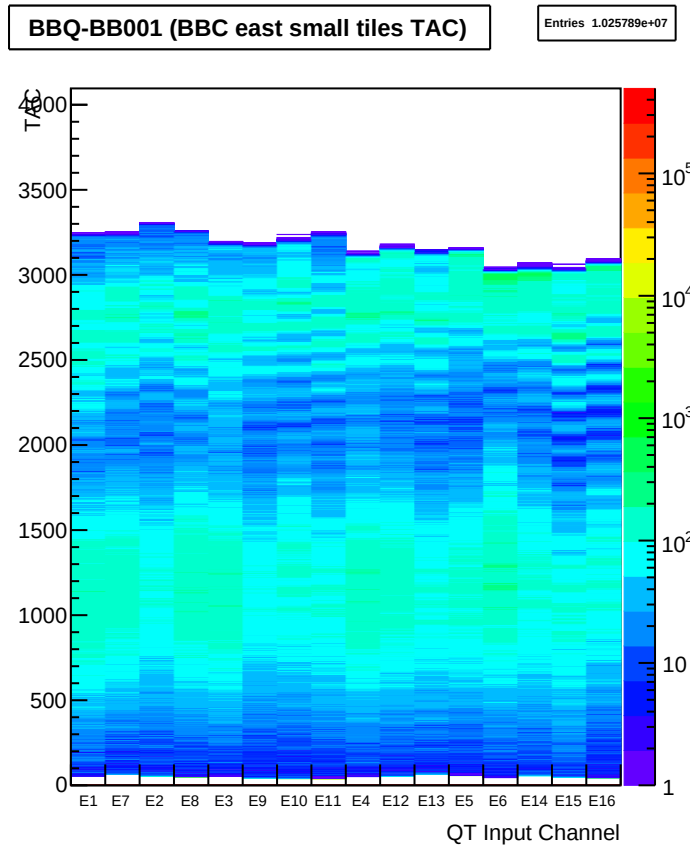

L2-TF201
Entries 641118
TOF total mult

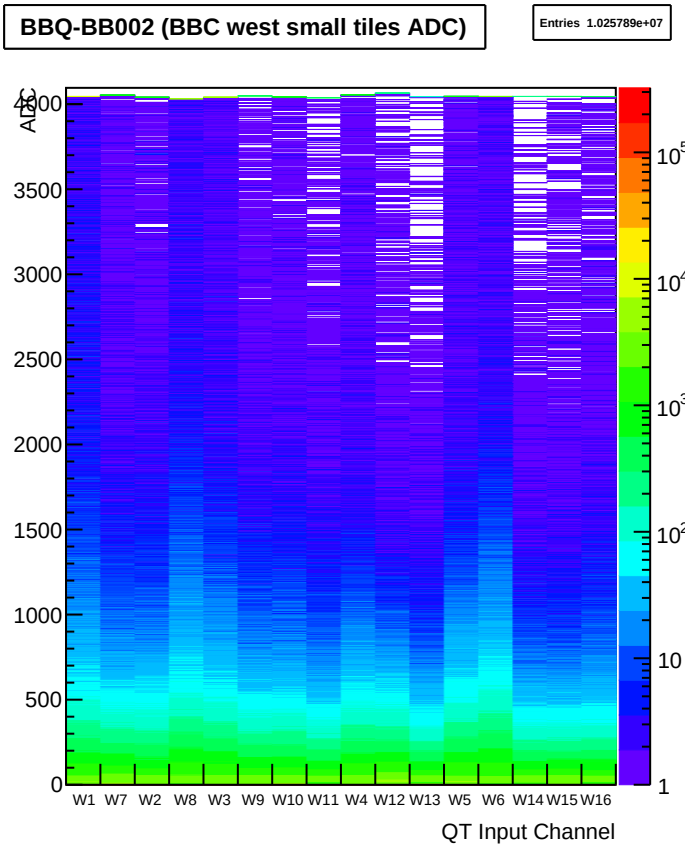

L2-TF201
Entries 0
TOF total mult(Real-Simu)

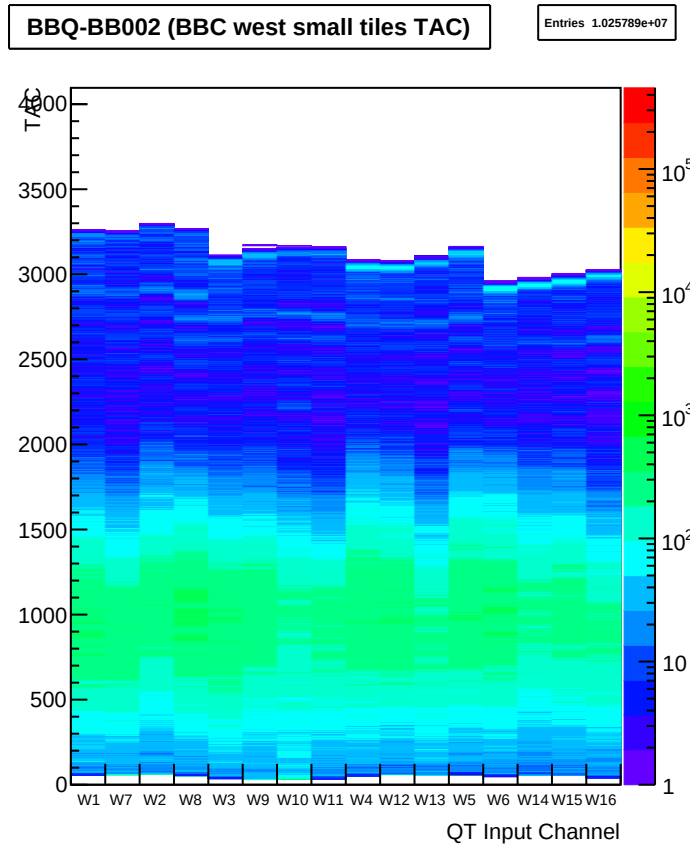

L2-TF201
Entries 4487826
Threshold/UPC bits
564651 568999 564487 569559 565215 562479 608638
76467 72119 76631 71559 75903 78639 32480
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

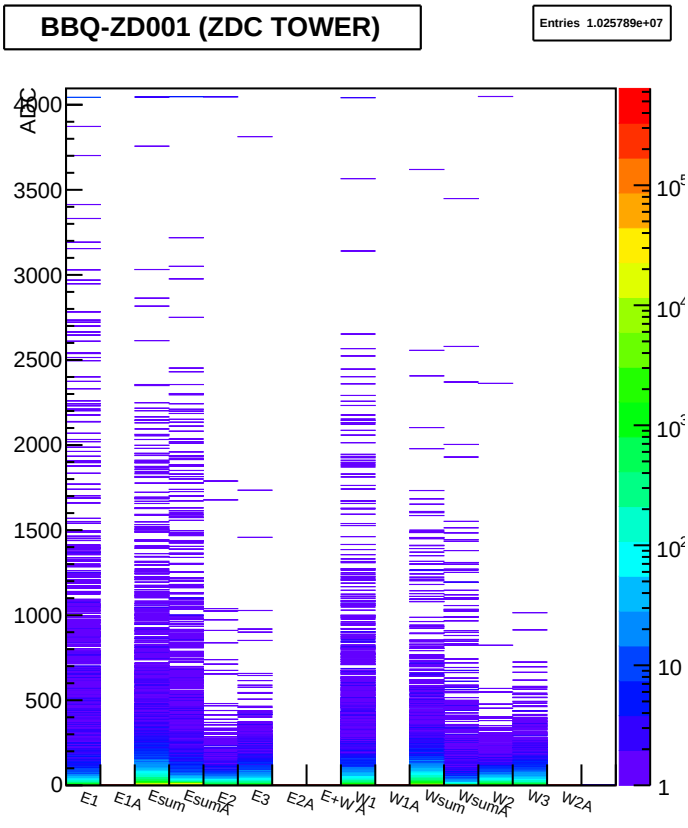

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

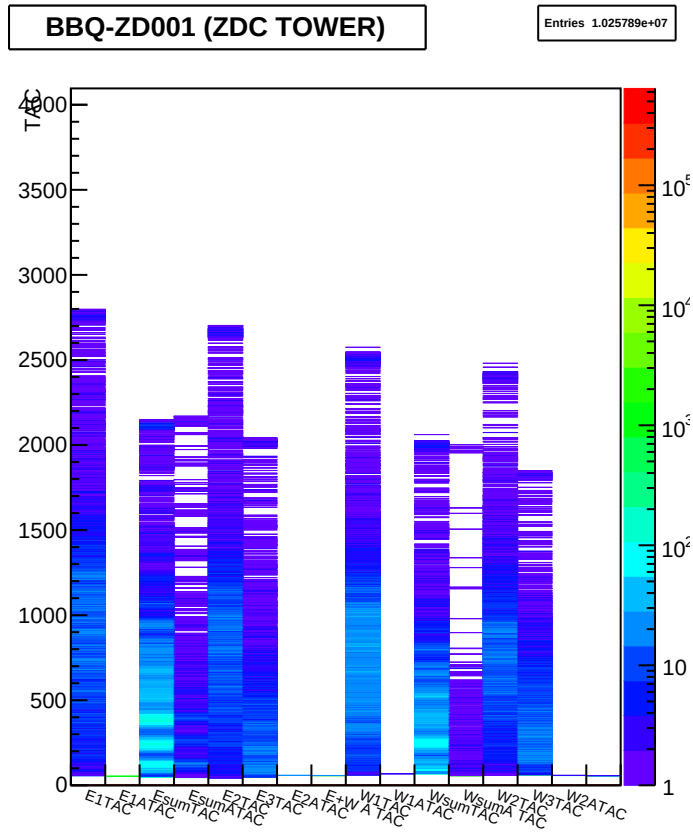

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.025789e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

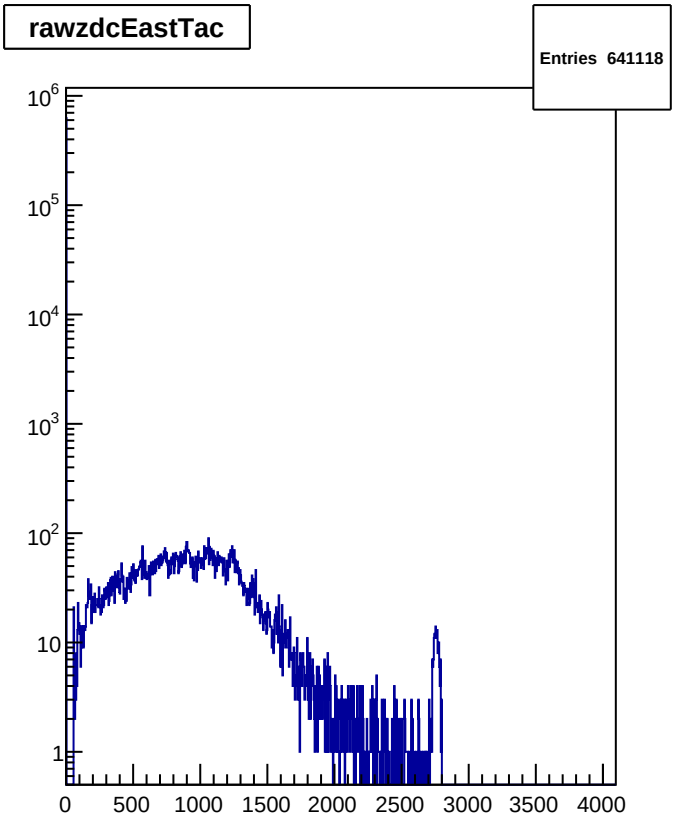

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.025789e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

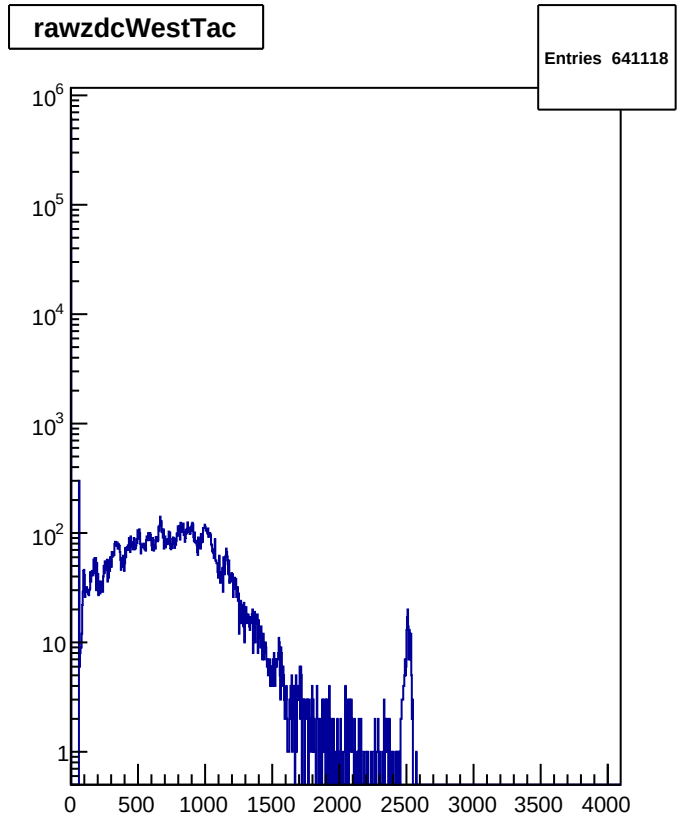

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.025789e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

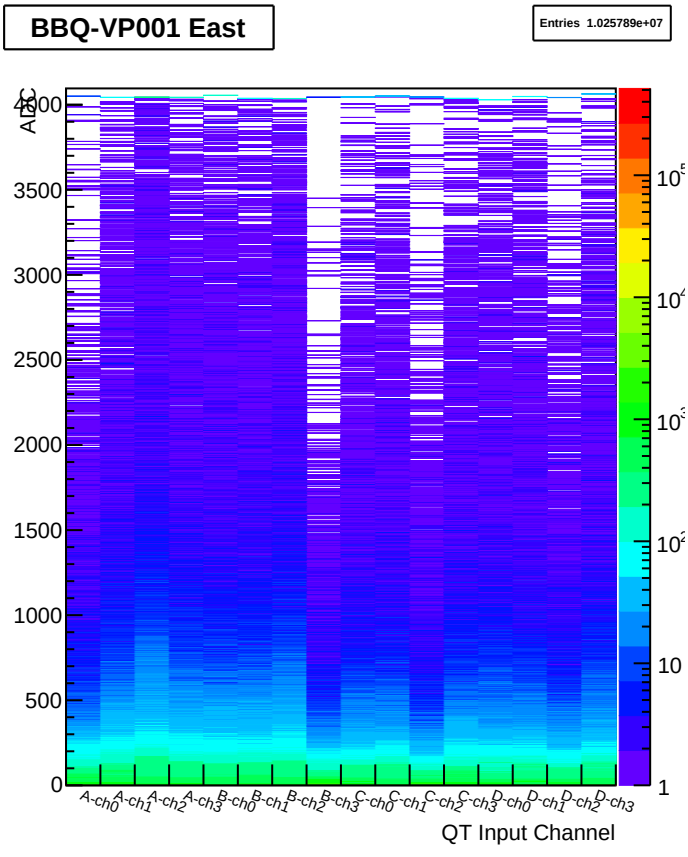

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.025789e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

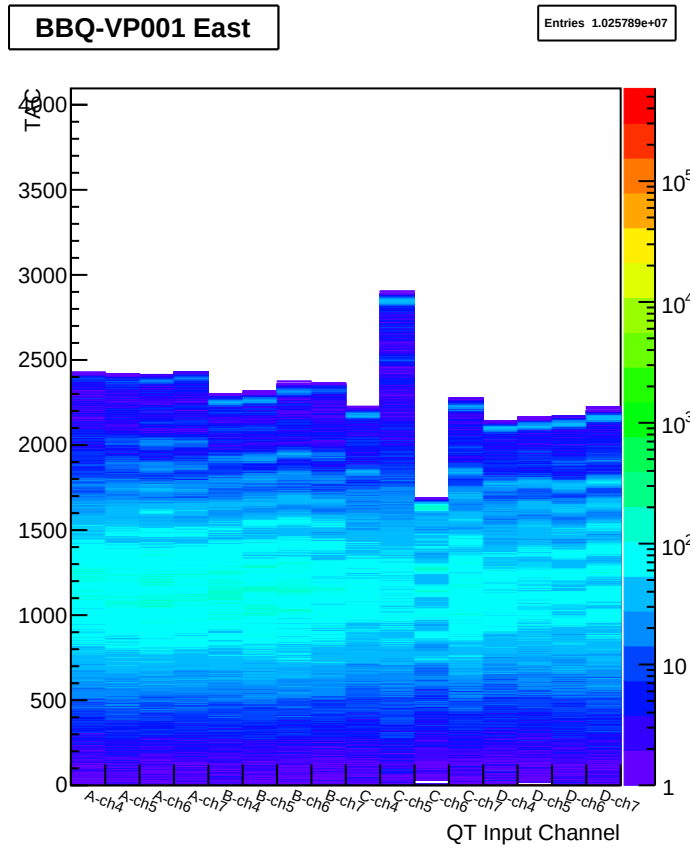

BBQ-ZD001 (ZDC TOWER)
Entries 1.025789e+07
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

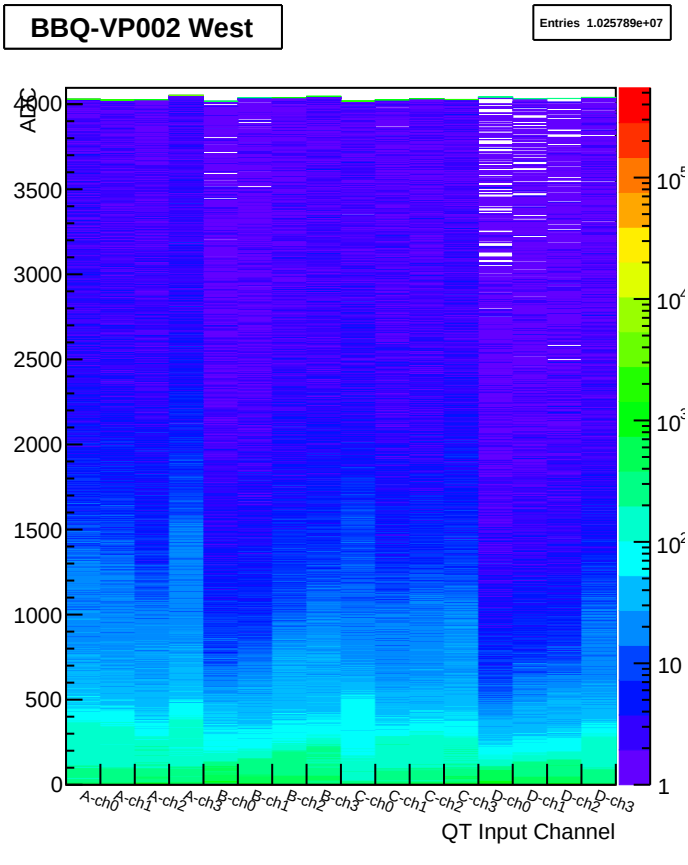

BBQ-ZD001 (ZDC TOWER)
Entries 1.025789e+07
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

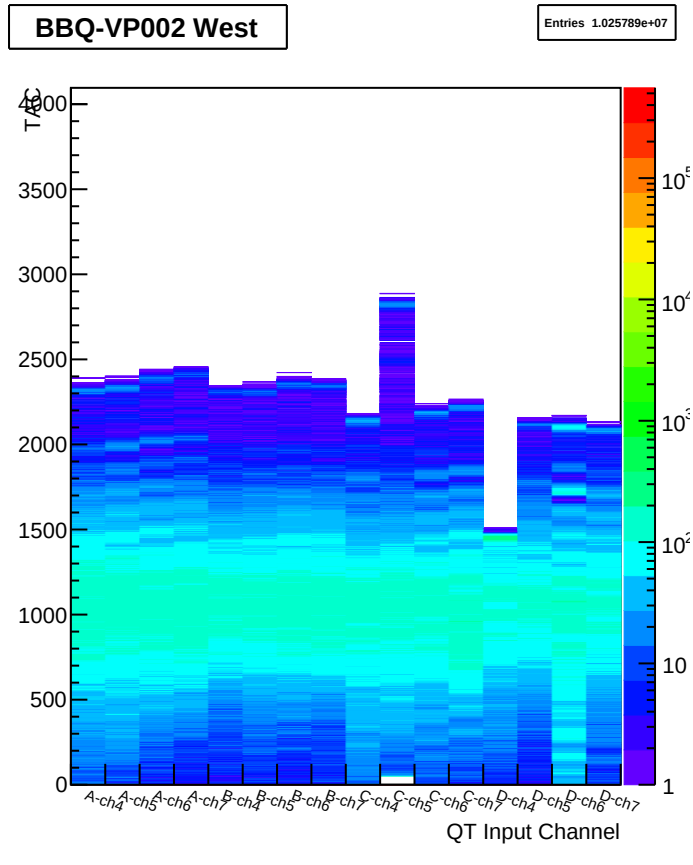

rawzdcEastTac
Entries 641118

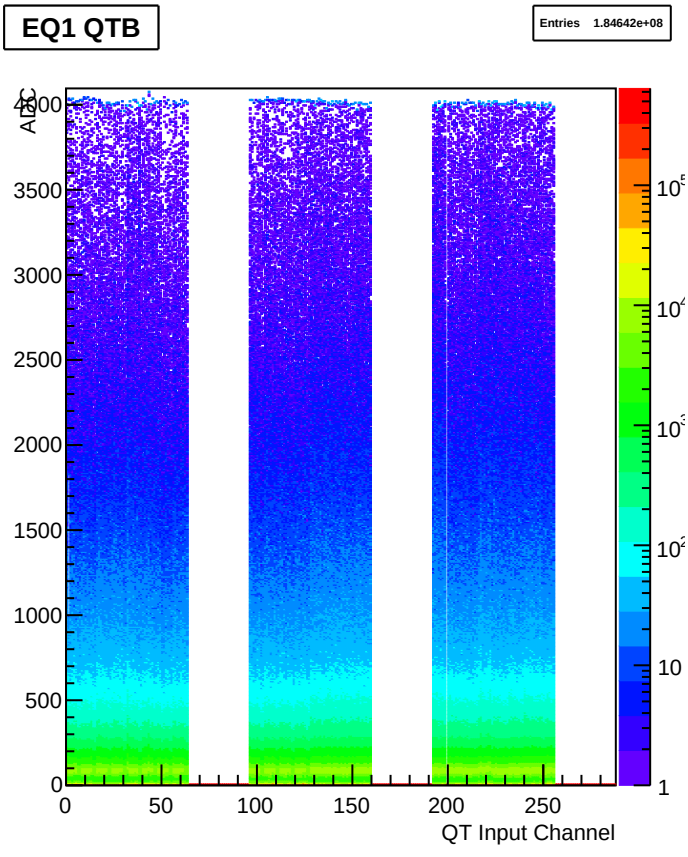

rawzdcWestTac
Entries 641118

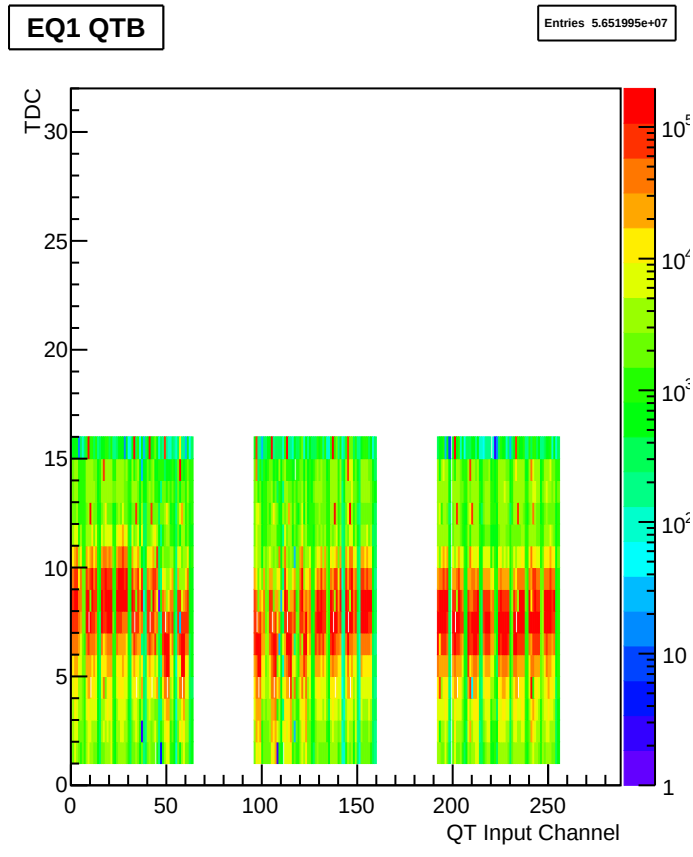

BBQ-VP001 East
Entries 1.025789e+07
ADC
QT Input Channel

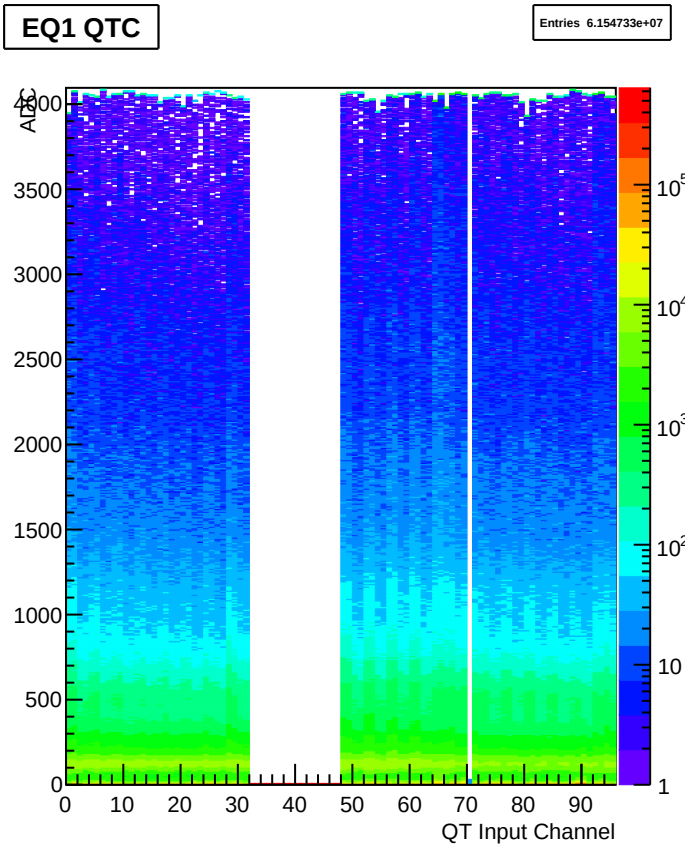

BBQ-VP001 East
Entries 1.025789e+07
TAC
QT Input Channel

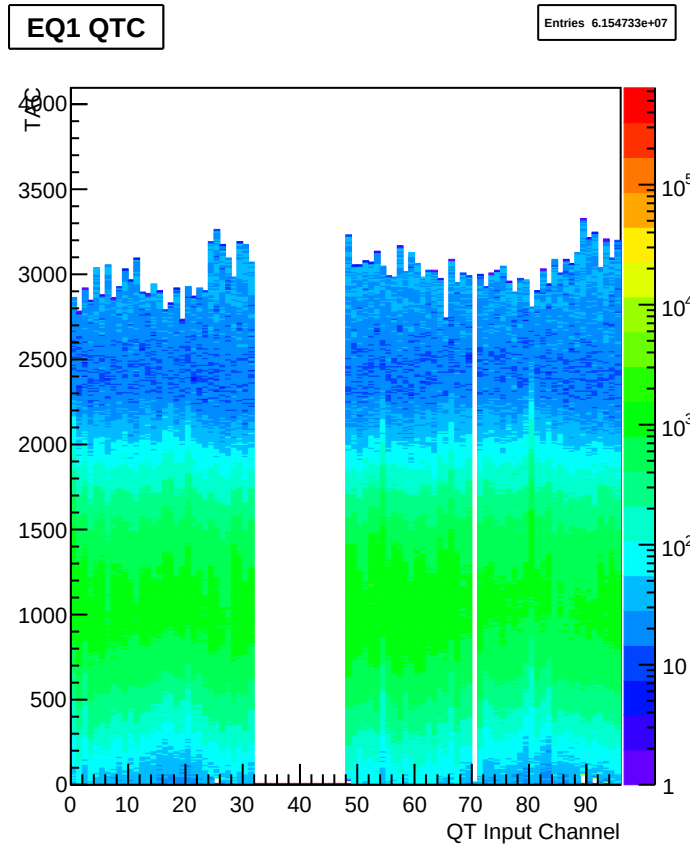

BBQ-VP002 West
Entries 1.025789e+07
ADC
QT Input Channel

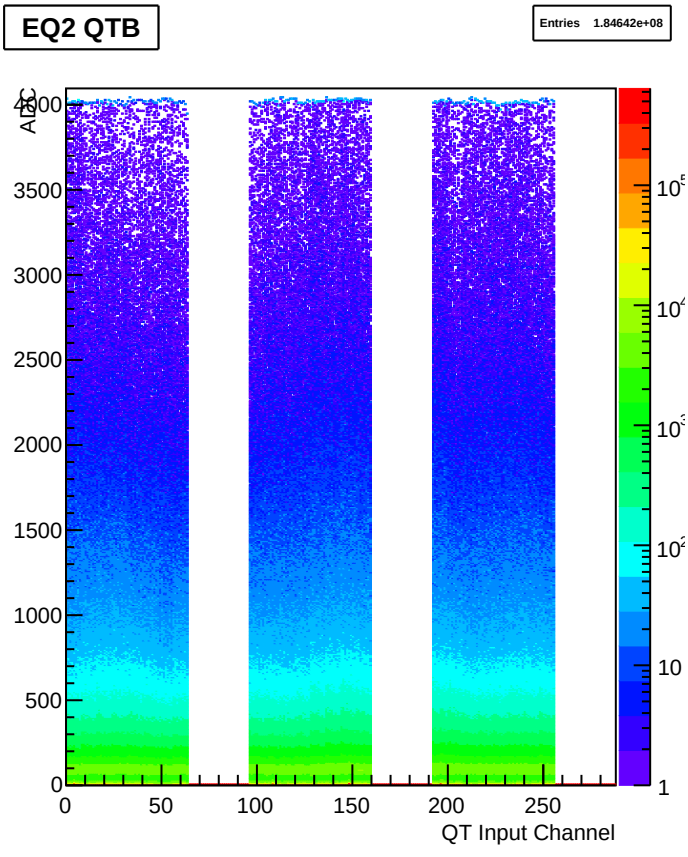

BBQ-VP002 West
Entries 1.025789e+07
TAC
QT Input Channel

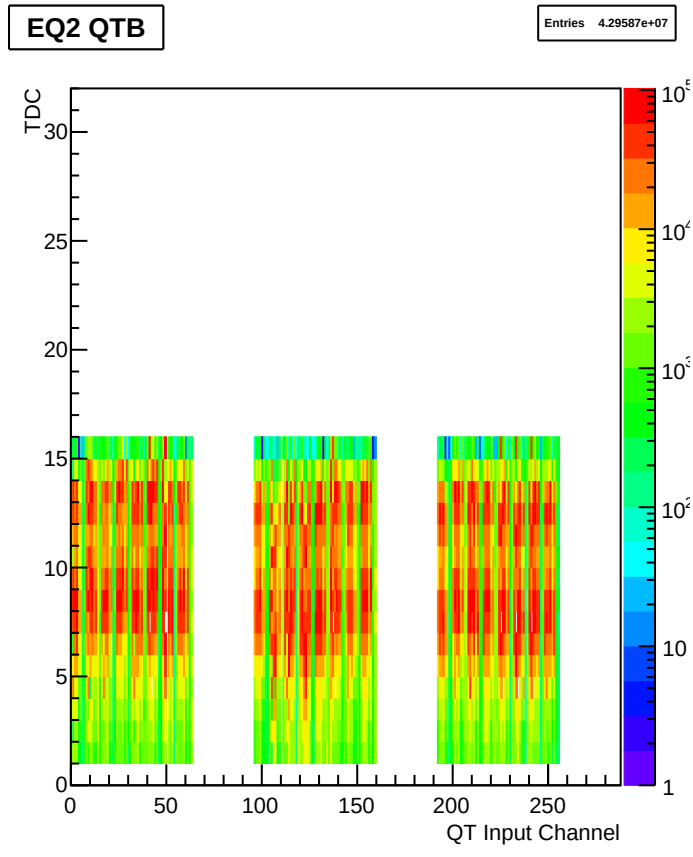

EQ1 QTB
Entries 1.84642e+08
ADC
QT Input Channel

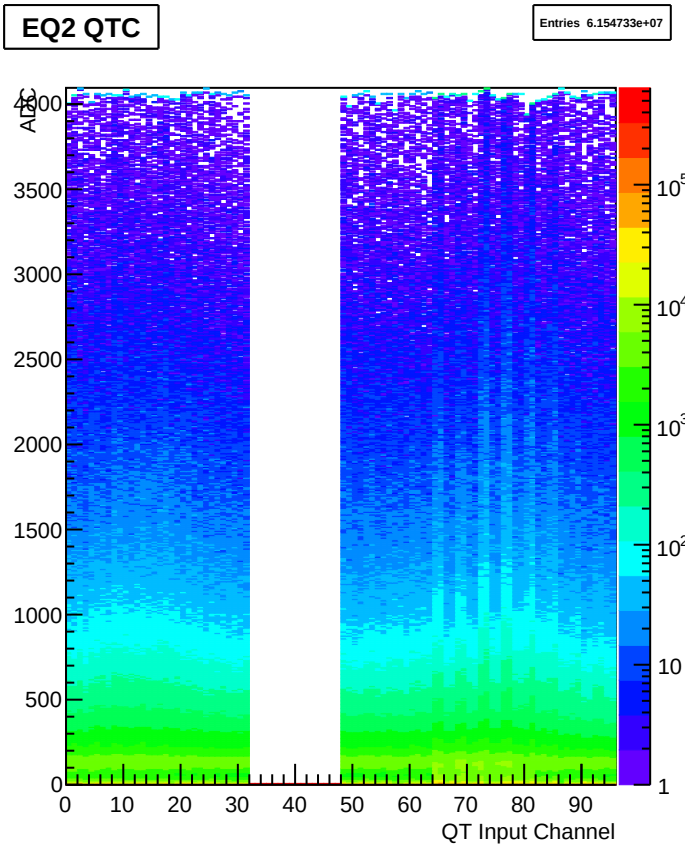

EQ1 QTB
Entries 5.651995e+07
TDC
QT Input Channel

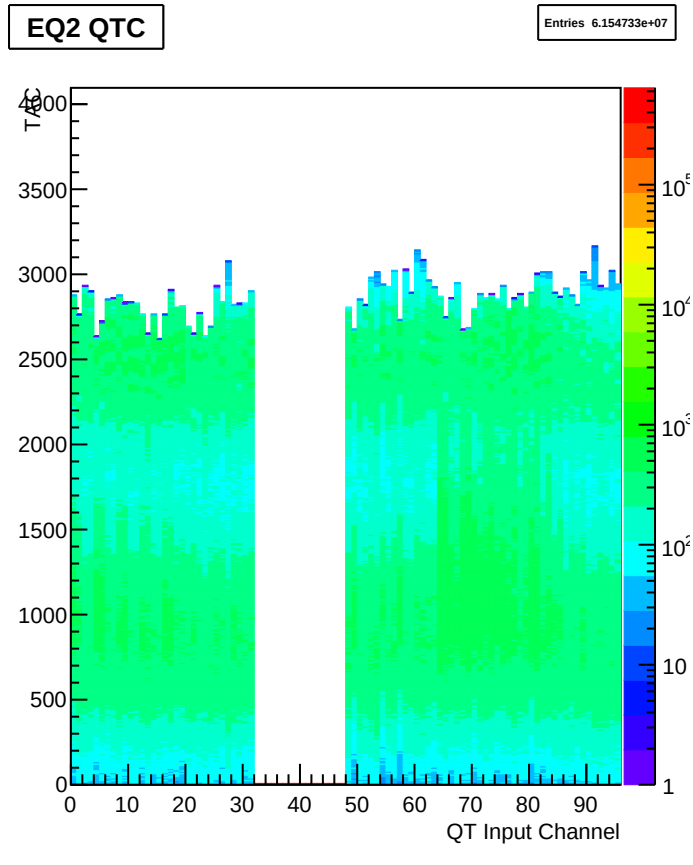

EQ1 QTC
Entries 6.154733e+07
ADC
QT Input Channel

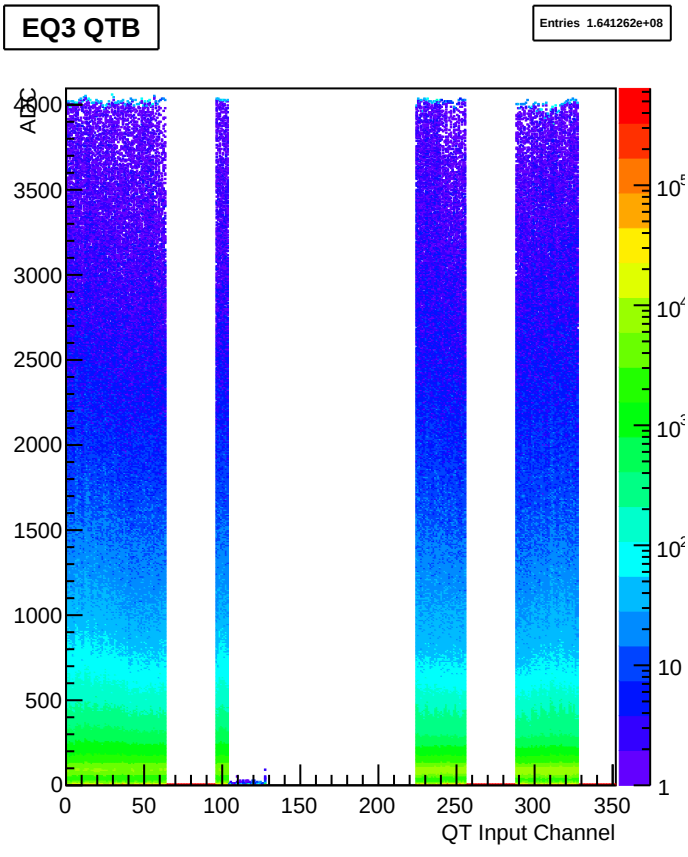

EQ1 QTC
Entries 6.154733e+07
TADC
QT Input Channel

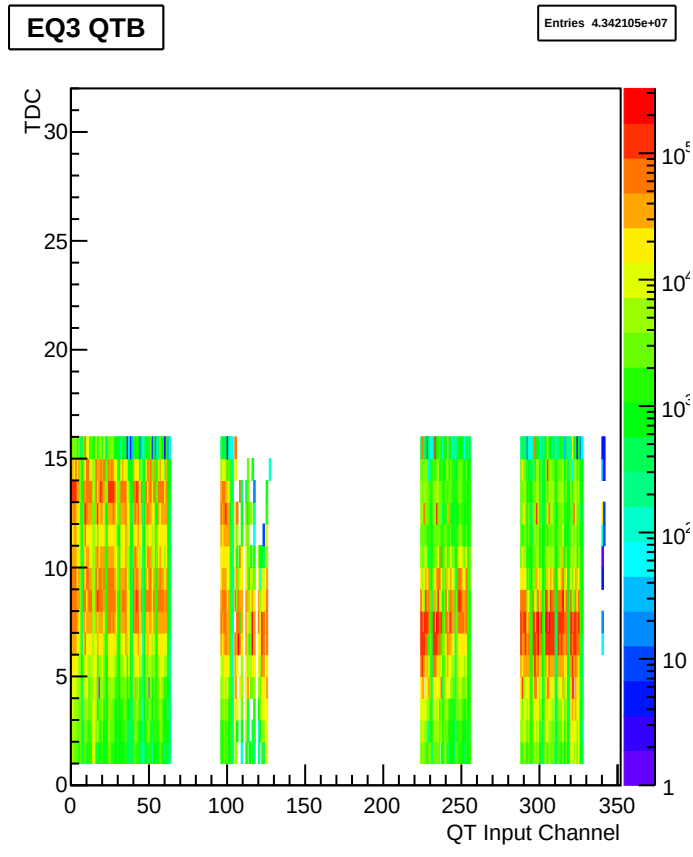

EQ2 QTB
Entries 1.84642e+08
ADC
QT Input Channel

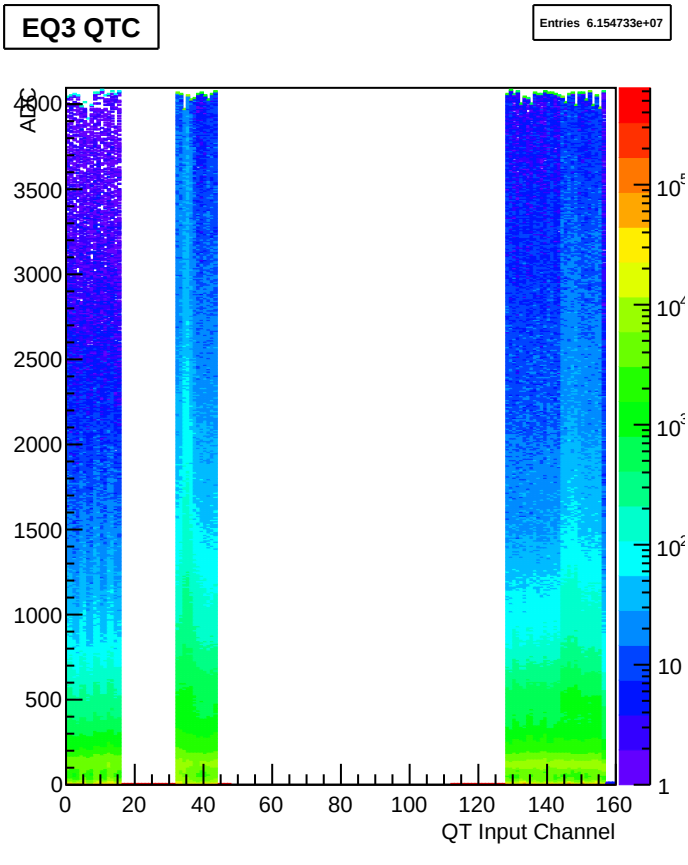

EQ2 QTB
Entries 4.29587e+07
TDC
QT Input Channel

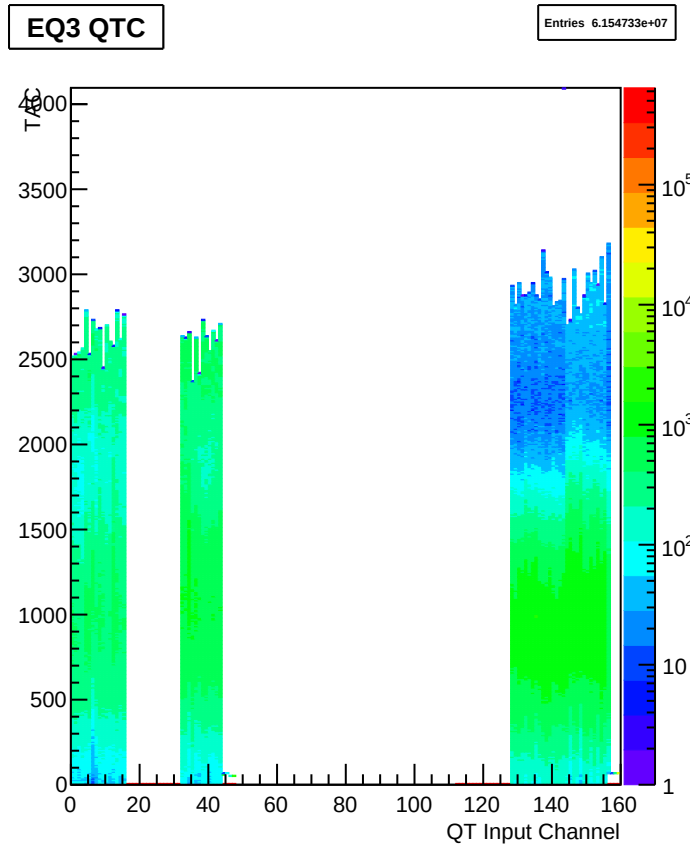

EQ2 QTC
Entries 6.154733e+07
ADC
QT Input Channel


EQ2 QTC
Entries 6.154733e+07
TADC
QT Input Channel


EQ3 QTB
Entries 1.641262e+08
ADC
QT Input Channel


EQ3 QTB
Entries 4.342105e+07
TDC
QT Input Channel


EQ3 QTC
Entries 6.154733e+07
ADC
QT Input Channel


EQ3 QTC
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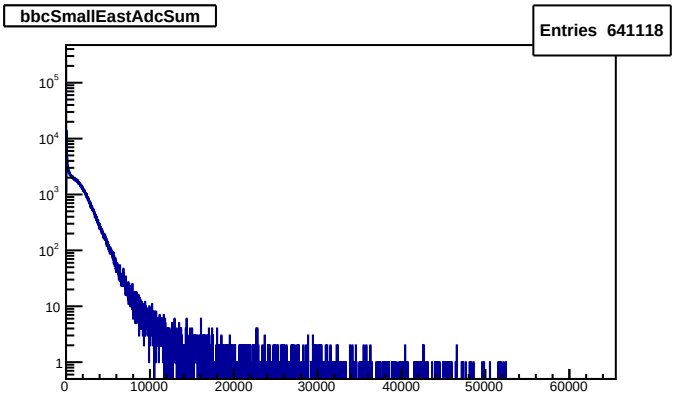
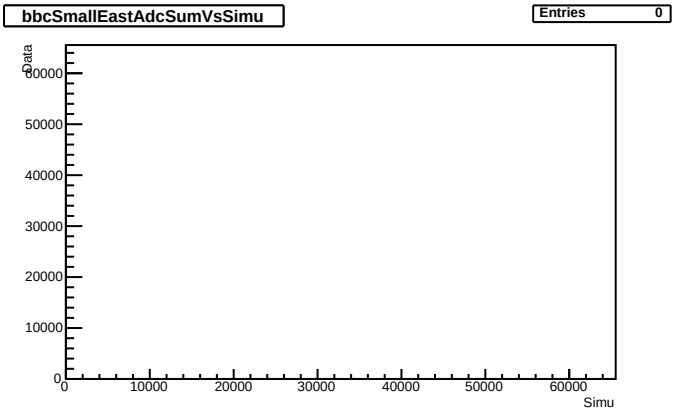
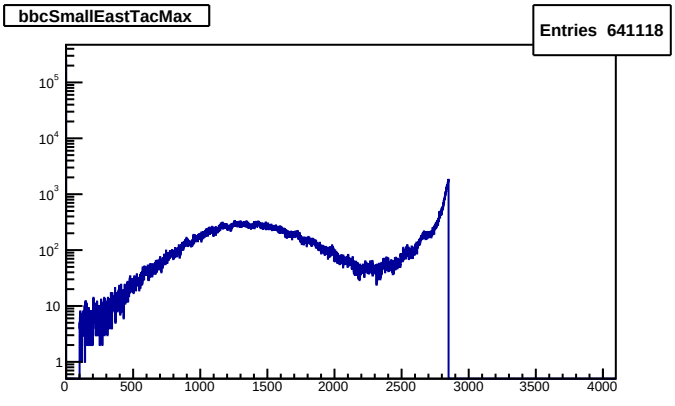
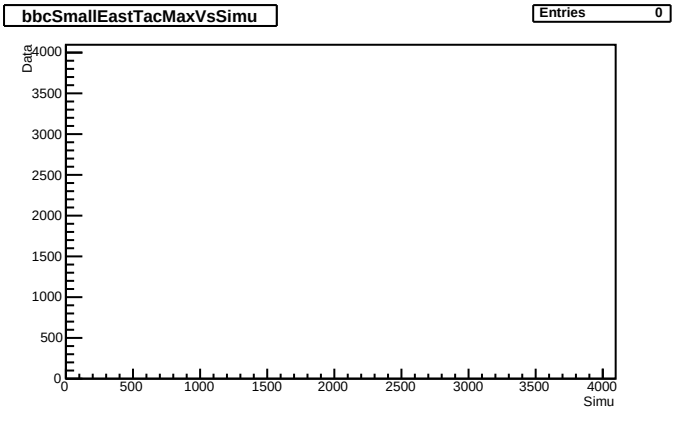
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 641118


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 641118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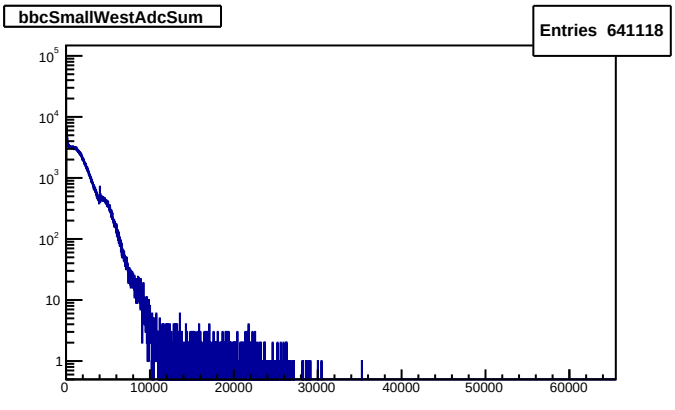
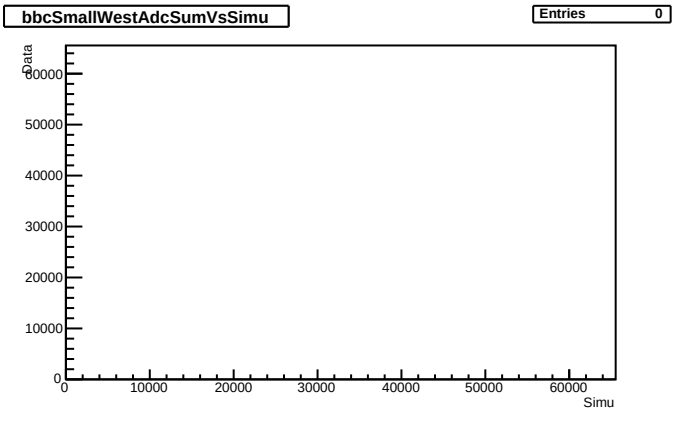

bbcSmallWestAdcSum
Entries 641118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Entries 0
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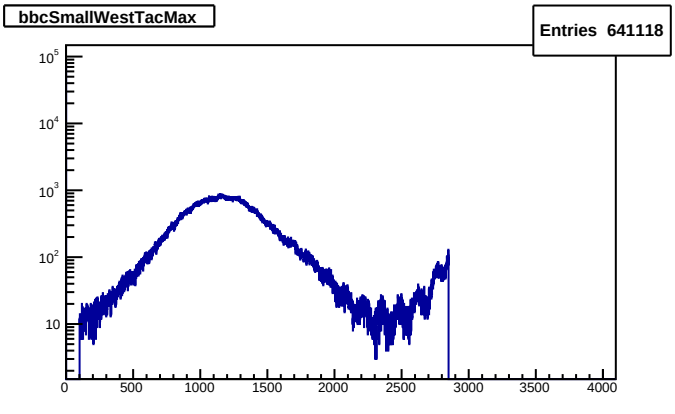
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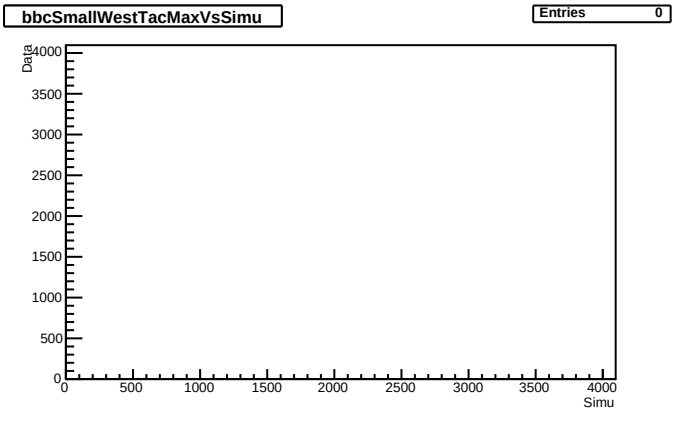
bbcSmallWestTacMaxVsSimu
Entries 0
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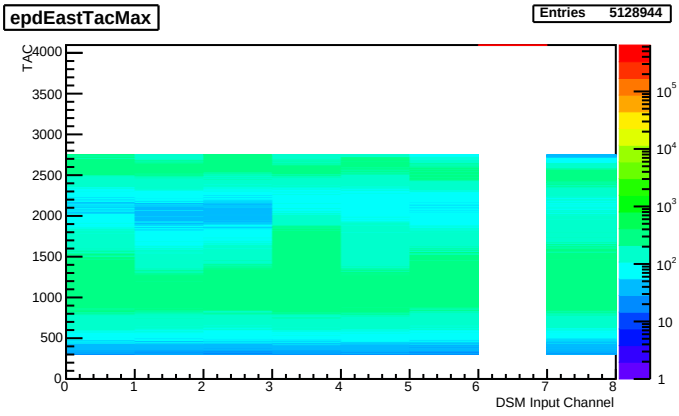
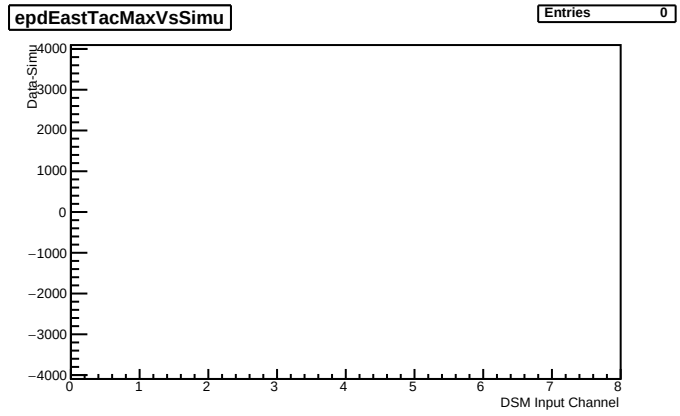
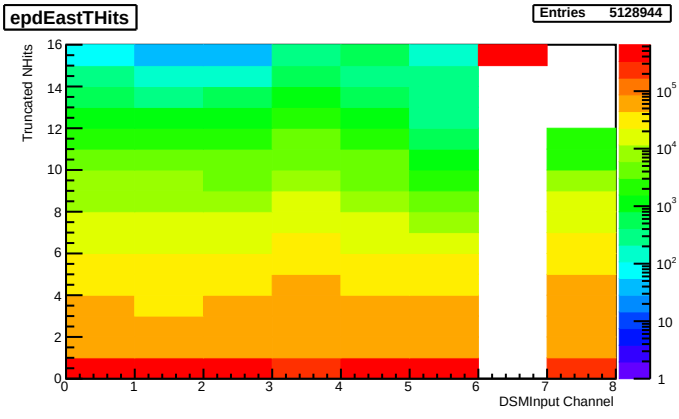
Simu


epdEastTacMax
Entries 5128944
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel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Entries 5128944
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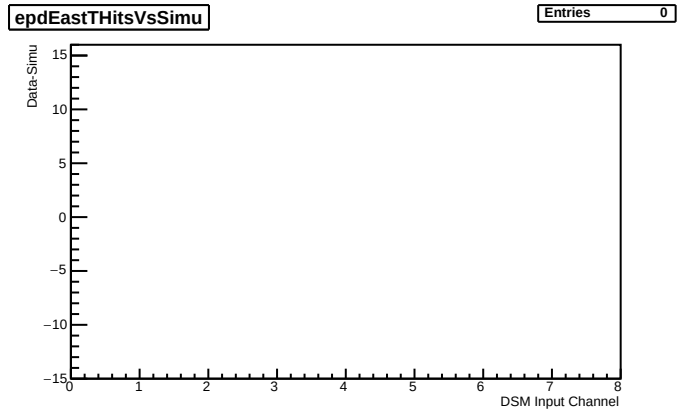
DSMInput Channel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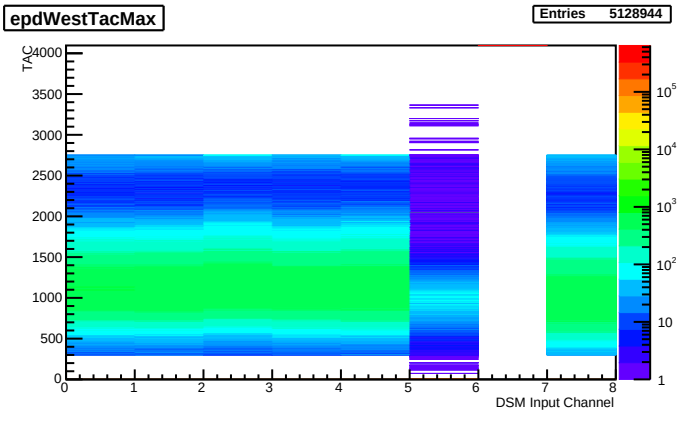
DSM Input Channel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Entries 5128944
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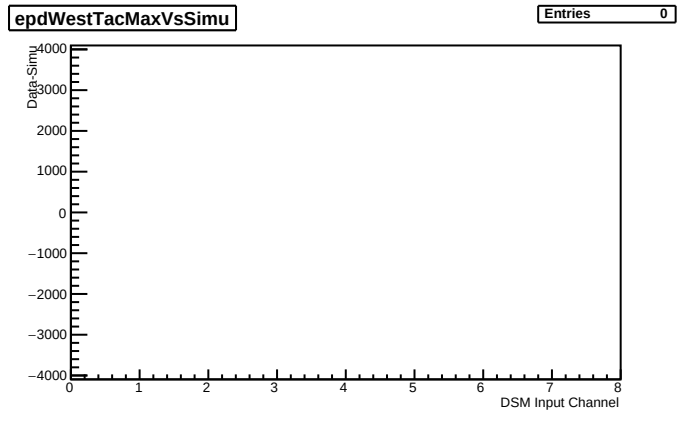
DSM Input Channel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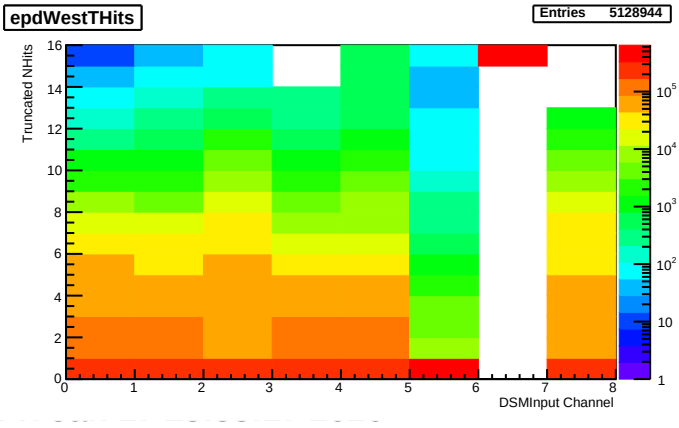
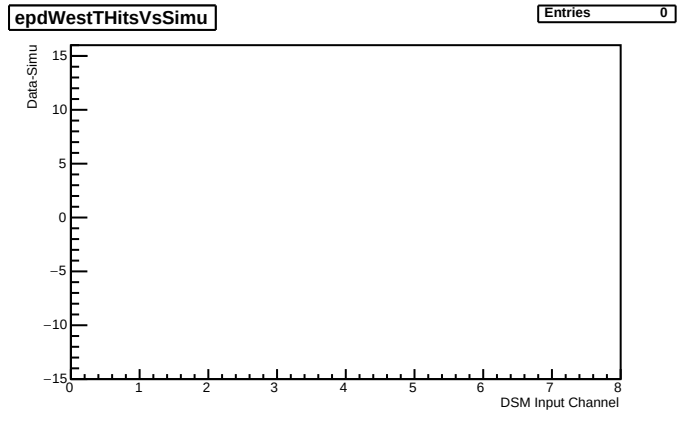
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 5128944
Truncated NHits
DSMInput Channel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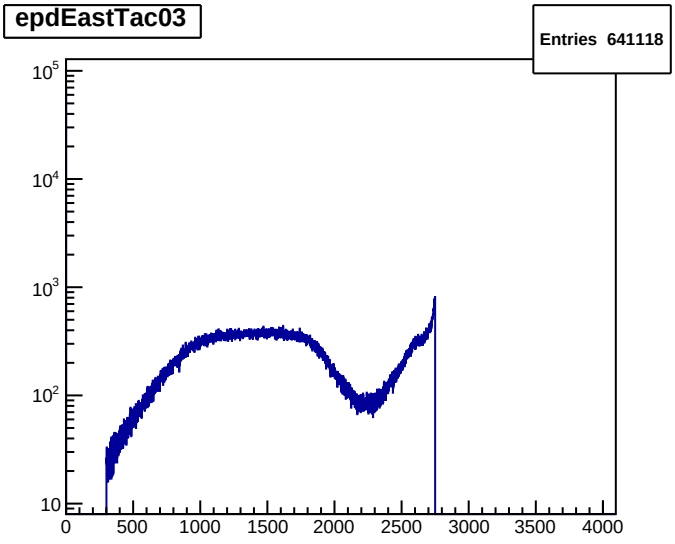
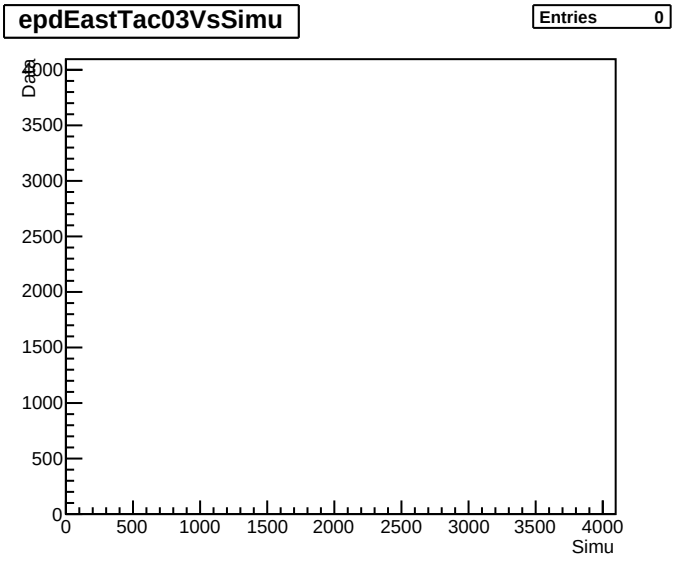
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 641118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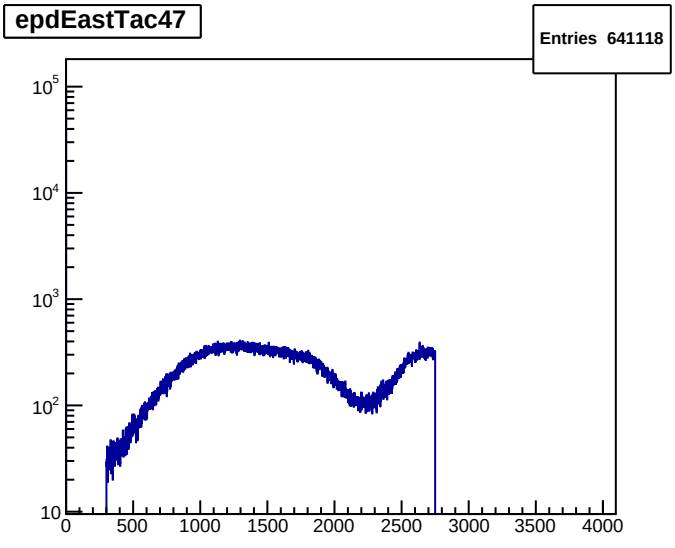
Entries 0
Data
Simu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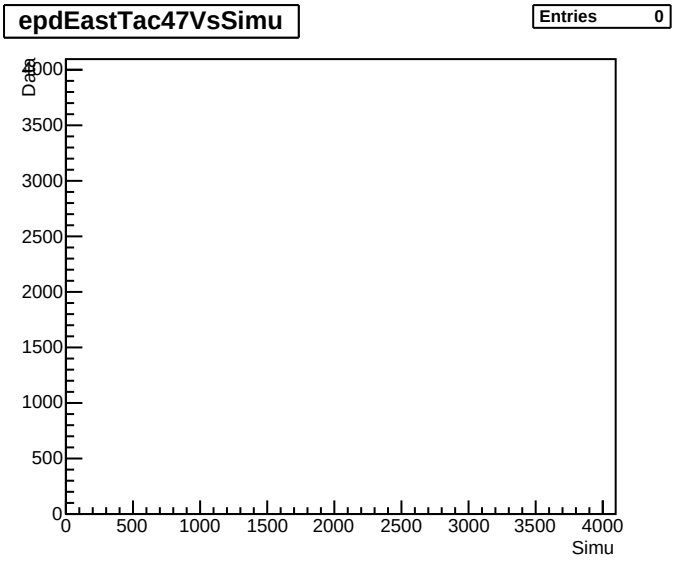
Entries 641118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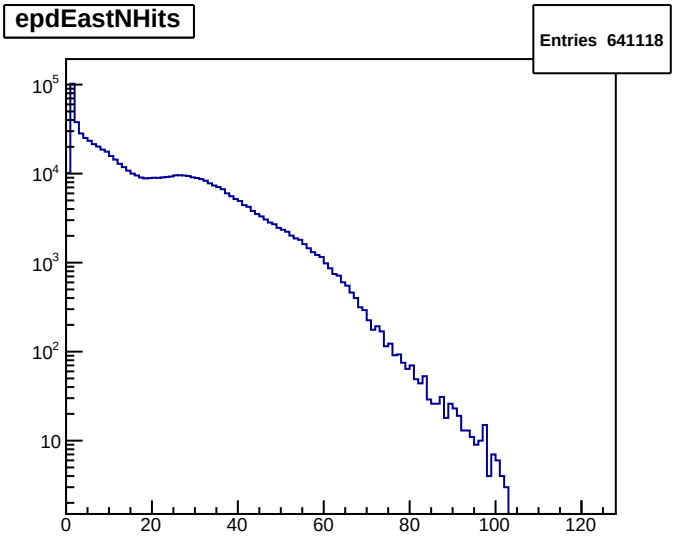
Entries 0
Data
Simu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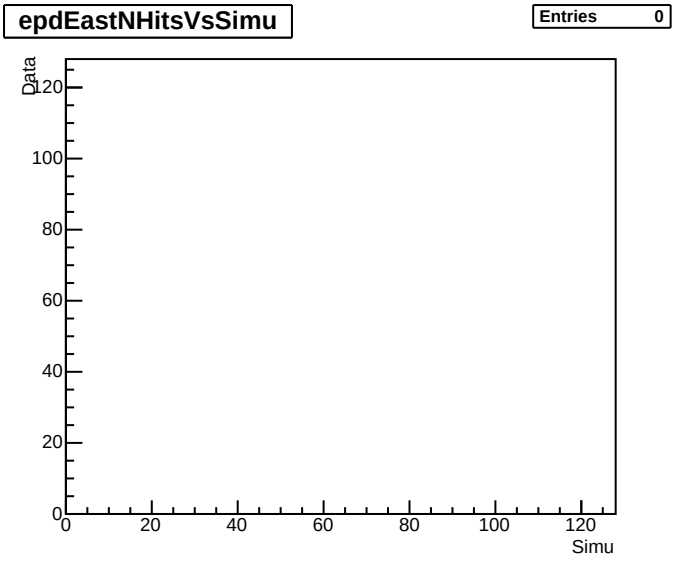
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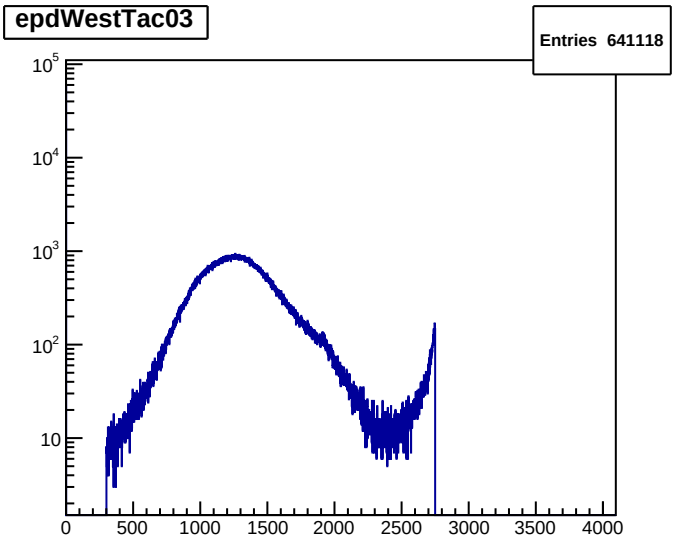
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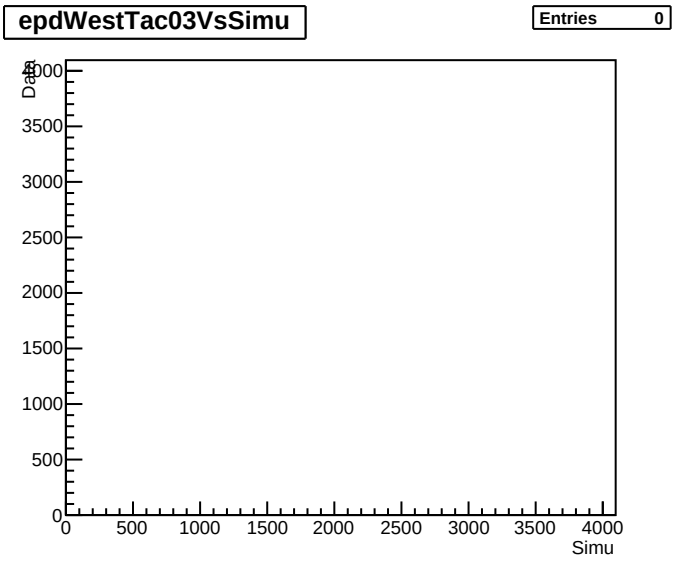
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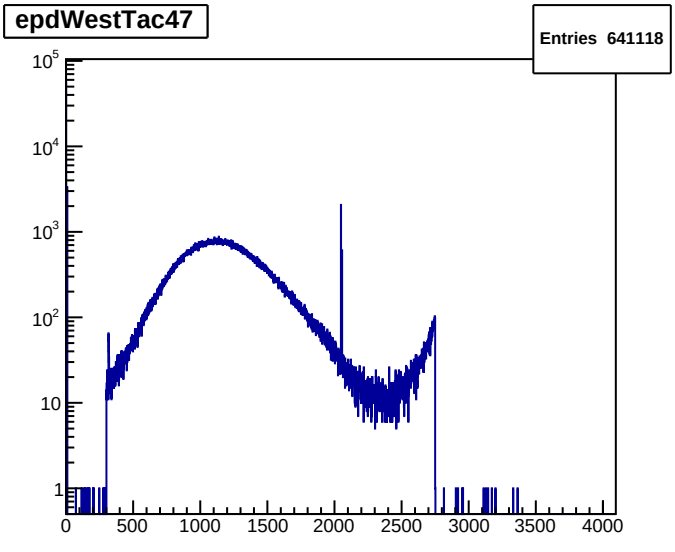
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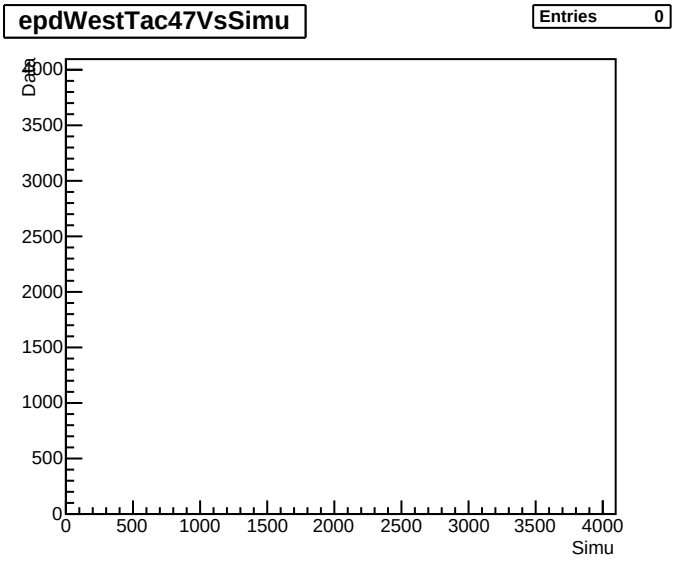
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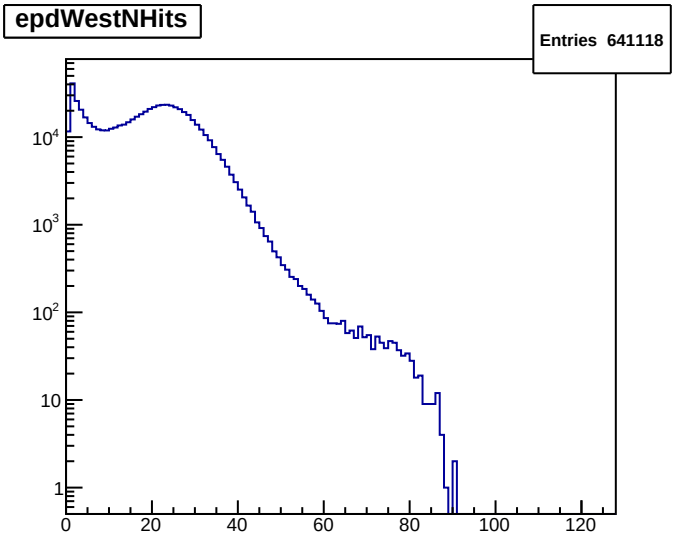
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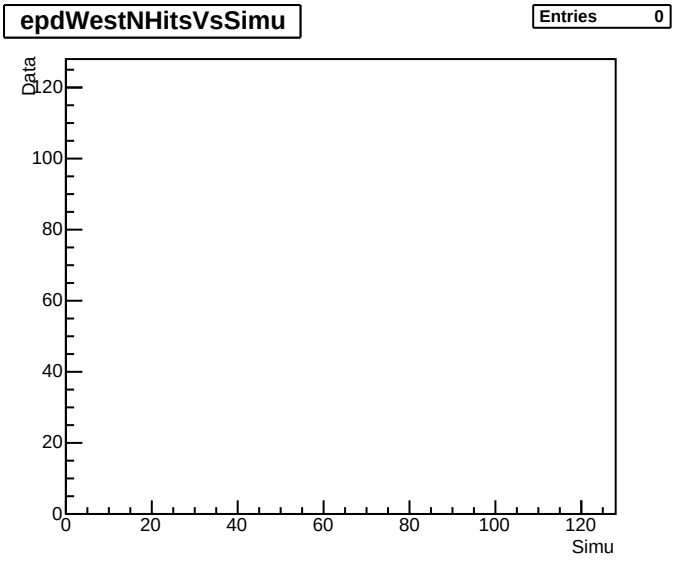
Entries 641118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Entries 0
Data
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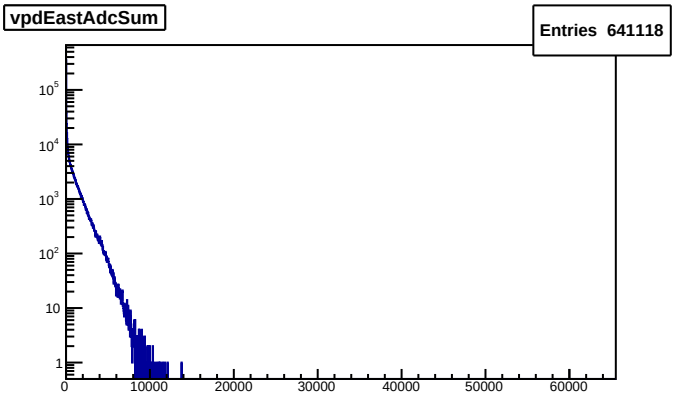
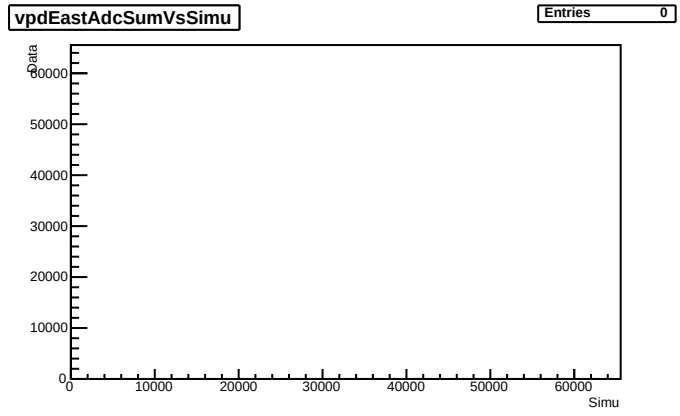

vpdEastAdcSum
Entries 641118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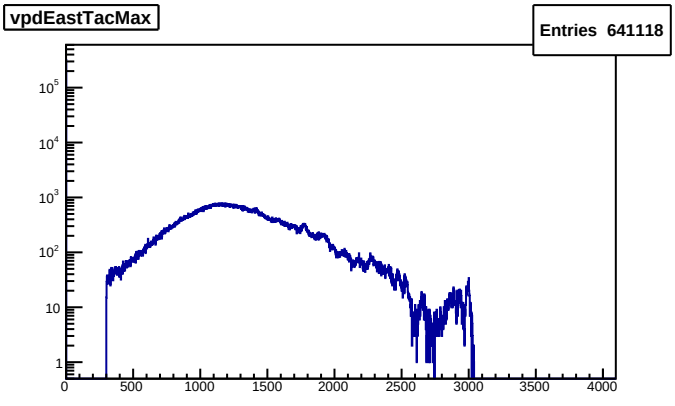
Entries 0
Data
Simu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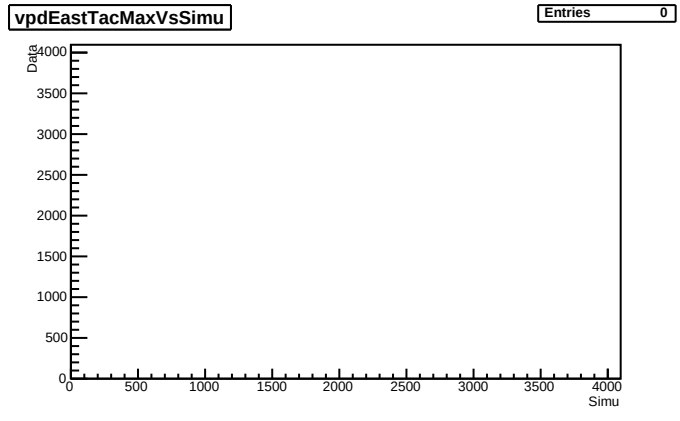
Entries 641118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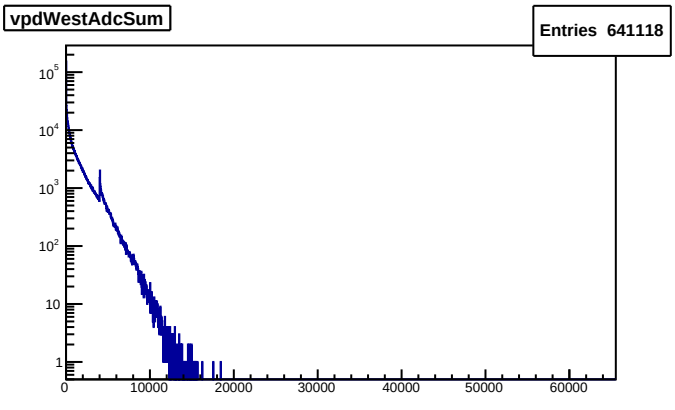
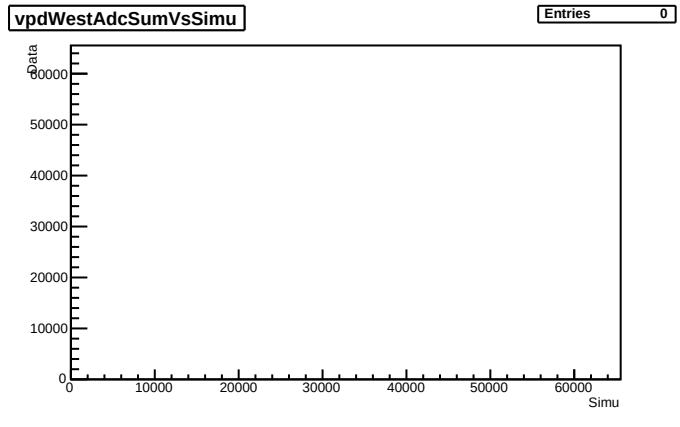

vpdWestAdcSum
Entries 641118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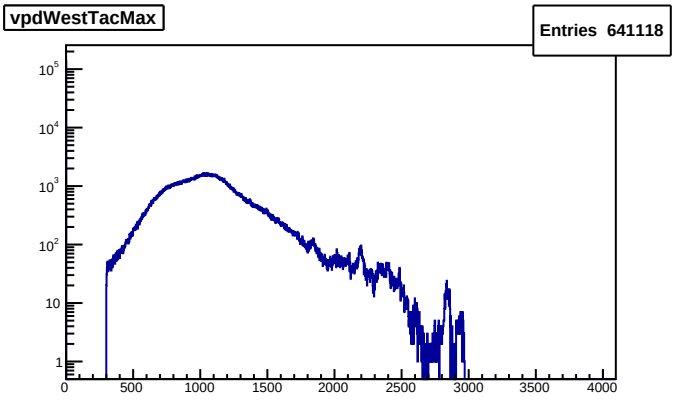
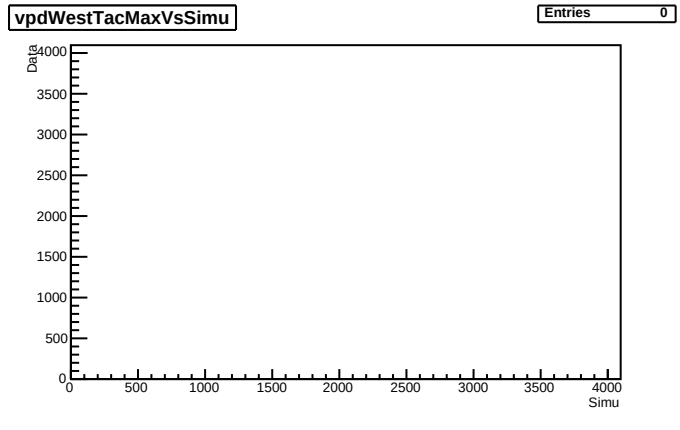
Entries 0
Data
Simu


vpdWestTacMax
Entries 641118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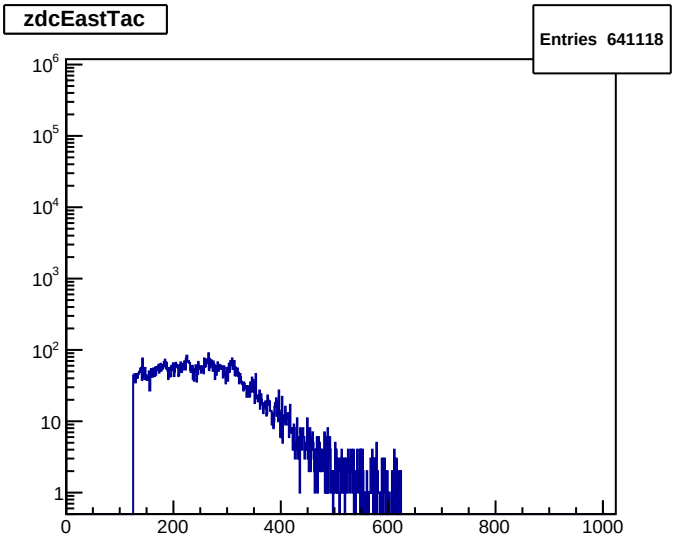
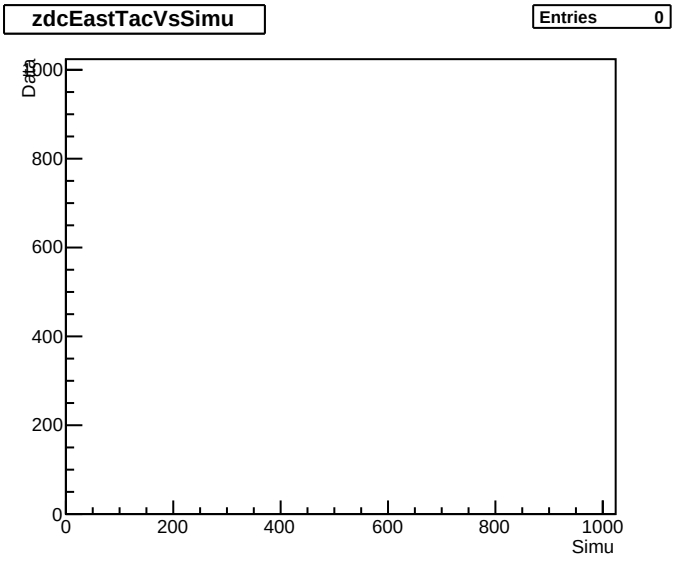
Entries 0
Data
Simu


zdcEastTac
Entries 641118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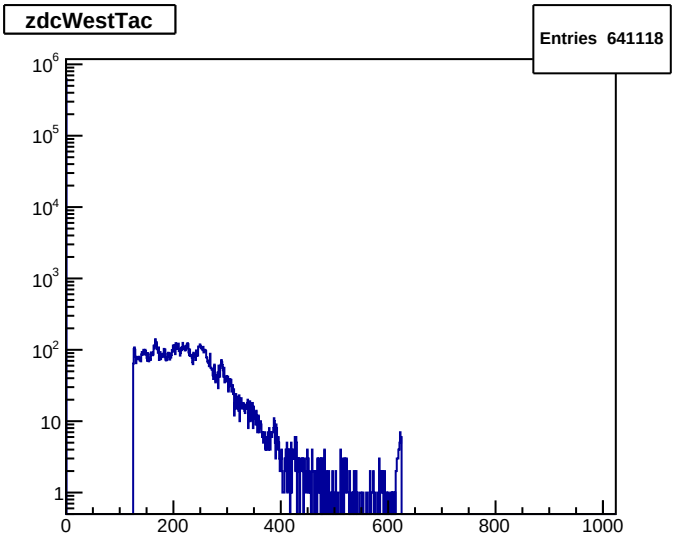
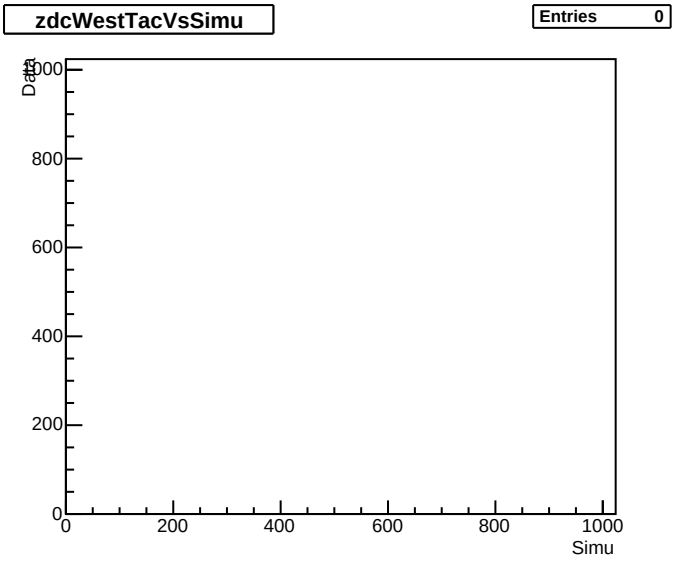
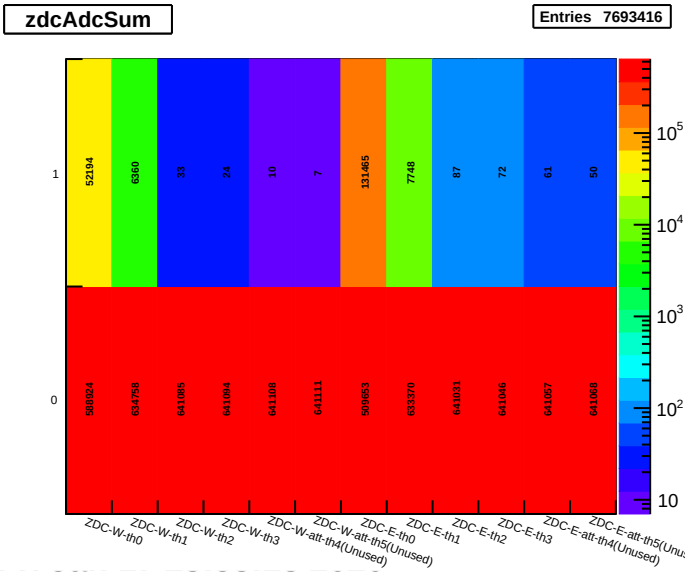
Entries 0
Data
Simu


zdcWestTac
Entries 641118


zdcWestTacVsSimu
Entries 0
Data
Simu


zdcAdcSum
Entries 7693416
52194
6360
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24
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131465
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87
72
61
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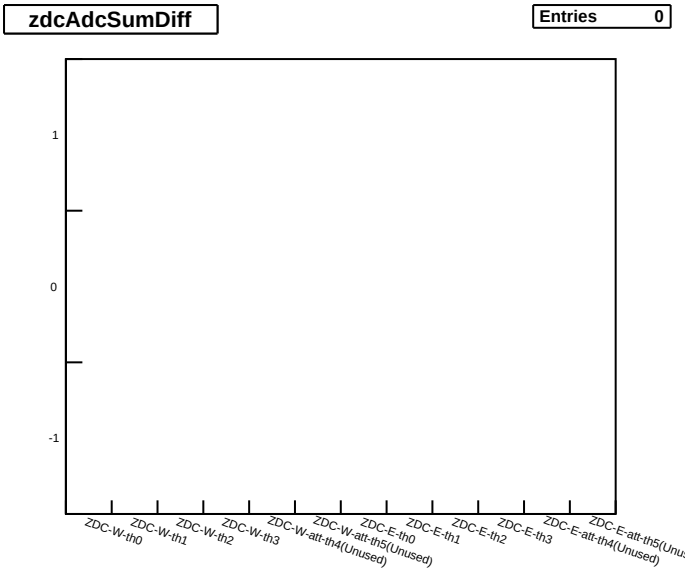
588924
634758
641085
641094
641108
641111
509653
633370
641031
641046
641057
641088
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)


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)
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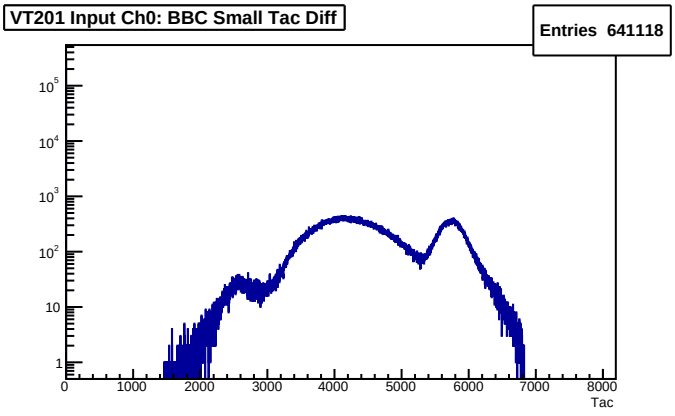
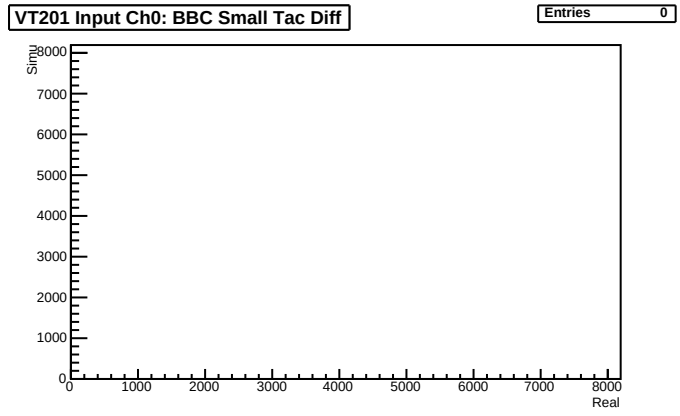
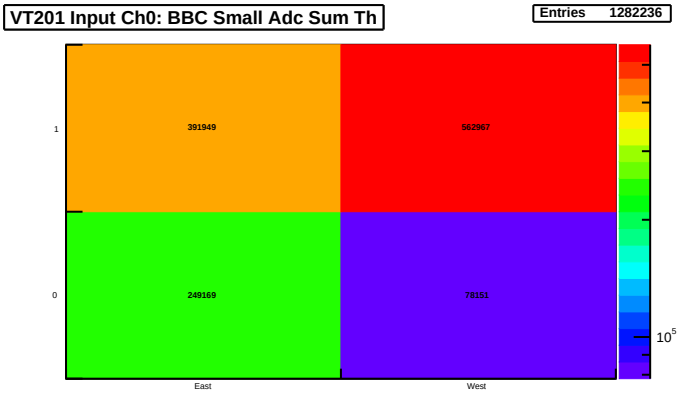
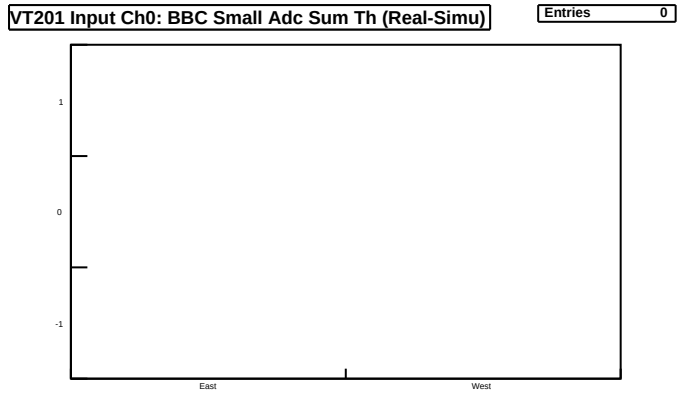
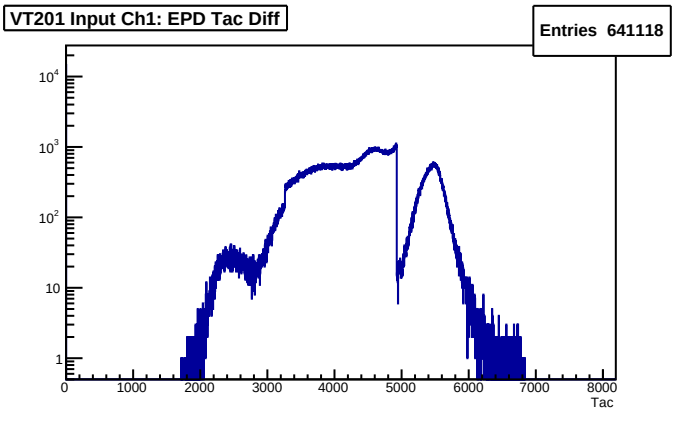
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

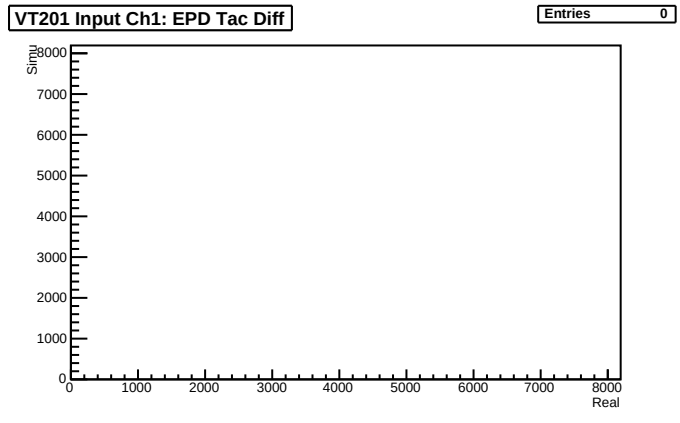

VT201 Input Ch0: BBC Small Tac Diff
Entries 641118
Tac

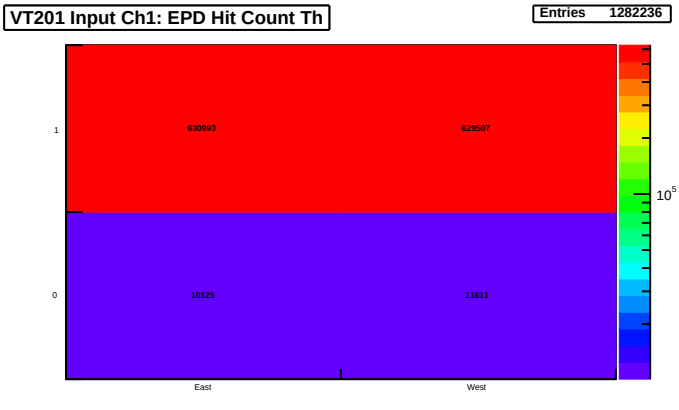

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

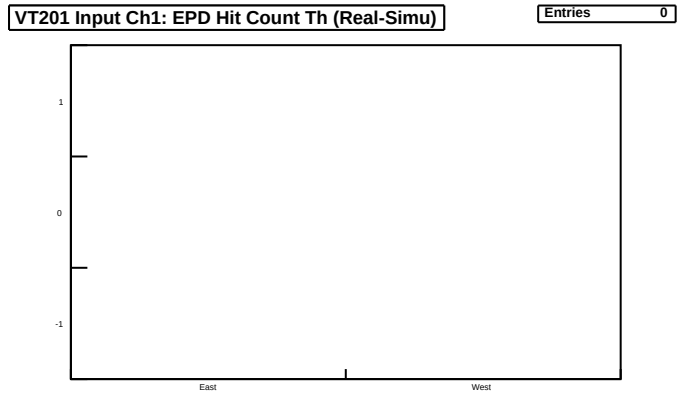

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1282236
391949
562967
249169
78151
East
West

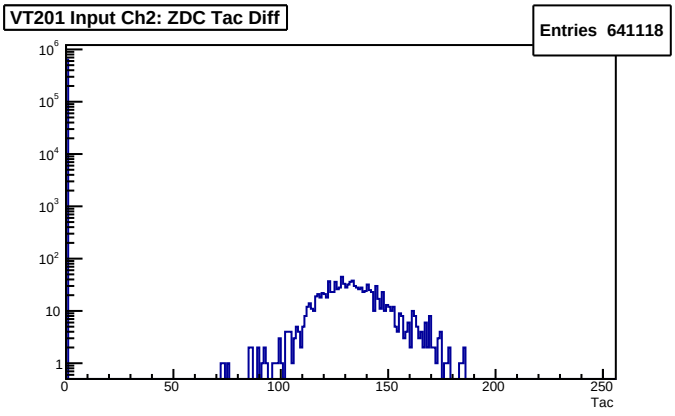

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

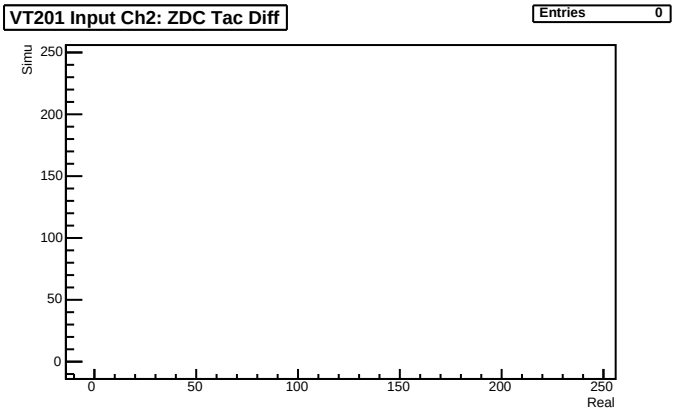

VT201 Input Ch1: EPD Tac Diff
Entries 641118
Tac

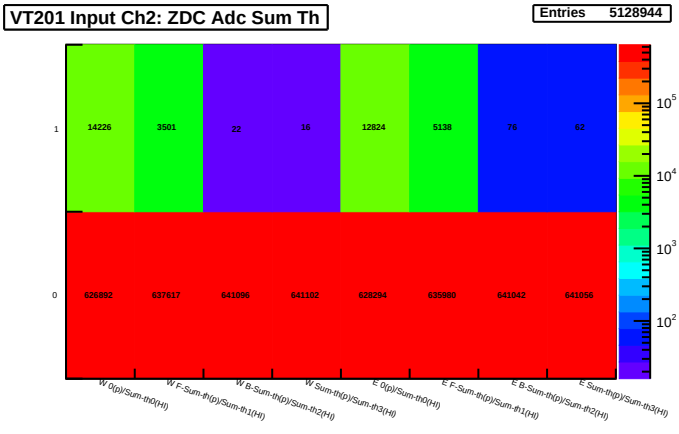

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

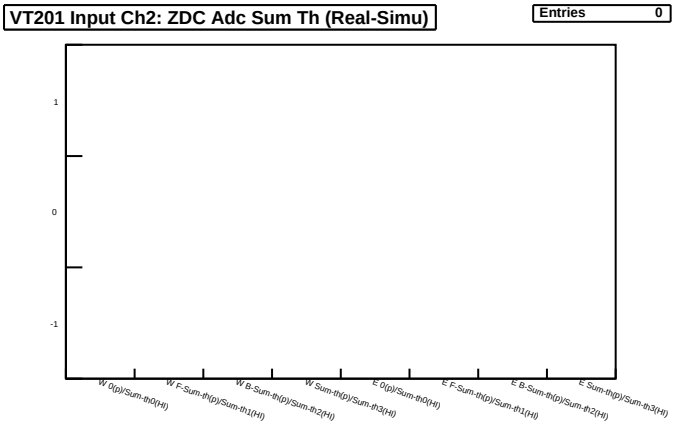

VT201 Input Ch1: EPD Hit Count Th
Entries 1282236
630993
629507
10125
11611
East
West

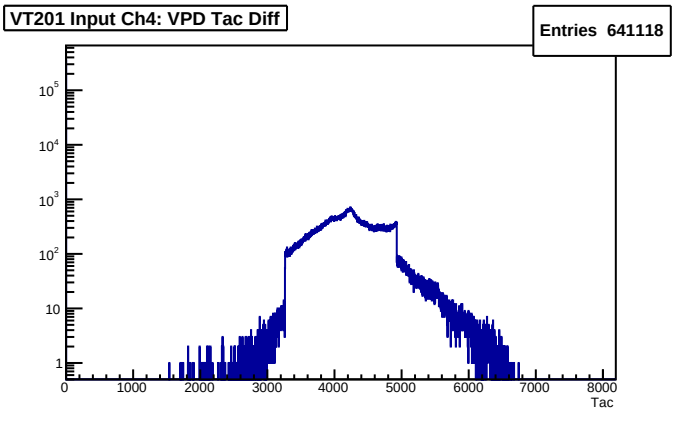

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

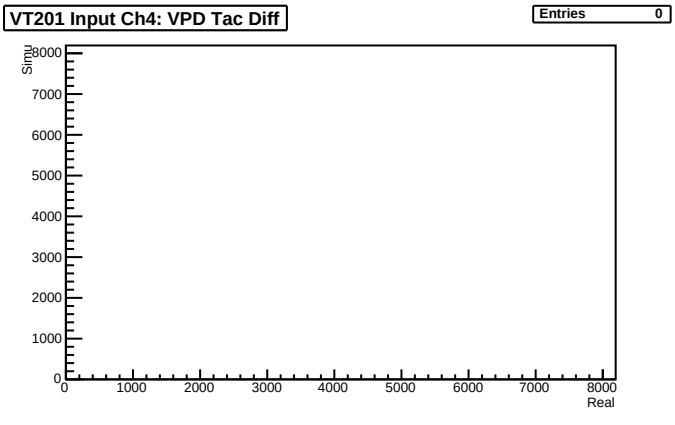

VT201 Input Ch2: ZDC Tac Diff
Entries 641118
Tac

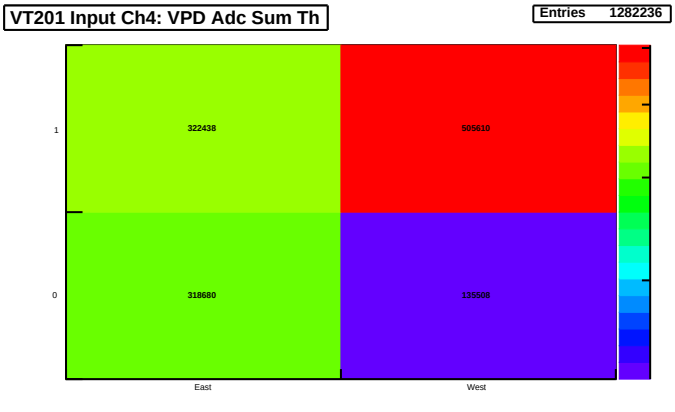

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

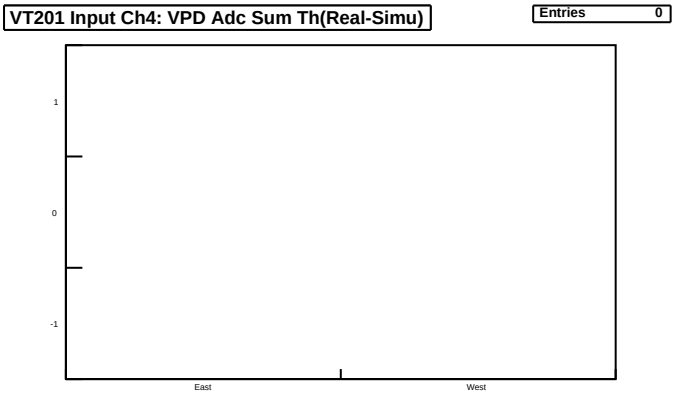

VT201 Input Ch2: ZDC Adc Sum Th
Entries 5128944
14226
3501
22
16
12824
5138
76
62
626892
637617
641096
641102
628294
635980
641042
641056
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

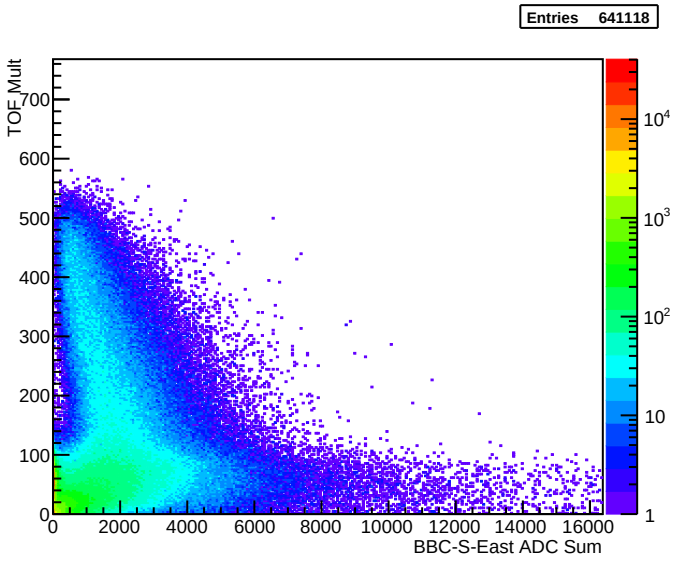

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(H)
W F-Sum-th(p)/Sum-th1(H)
W B-Sum-th(p)/Sum-th2(H)
W Sum-th(p)/Sum-th3(H)
E 0(p)/Sum-th0(H)
E F-Sum-th(p)/Sum-th1(H)
E B-Sum-th(p)/Sum-th2(H)
E Sum-th(p)/Sum-th3(H)

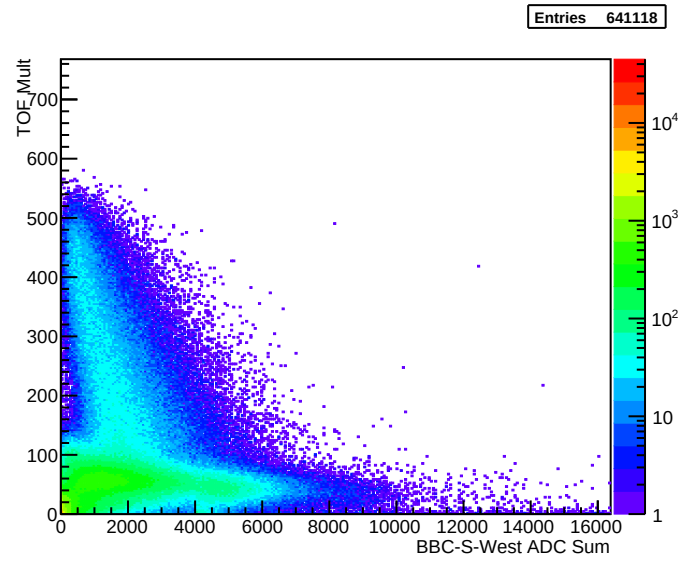

VT201 Input Ch4: VPD Tac Diff
Entries 641118
Tac

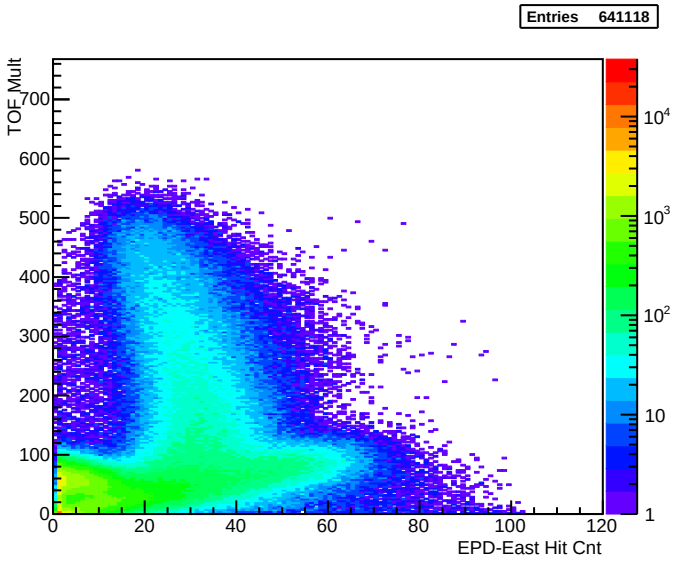

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

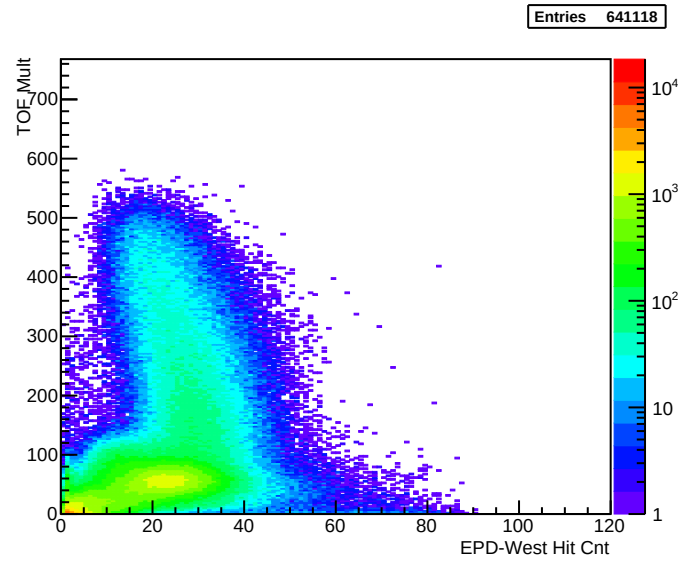

VT201 Input Ch4: VPD Adc Sum Th
Entries 1282236
322438
505610
318680
135508
East
West

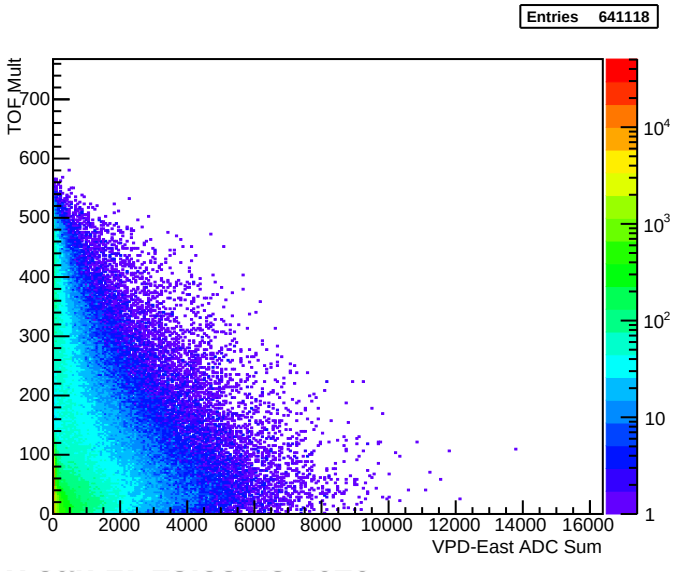

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

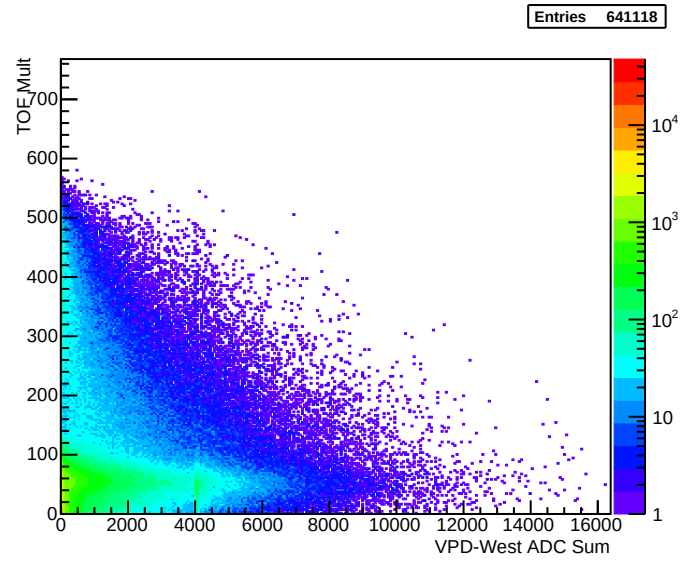

Entries 641118
TOF_Mult
BBC-S-East ADC Sum

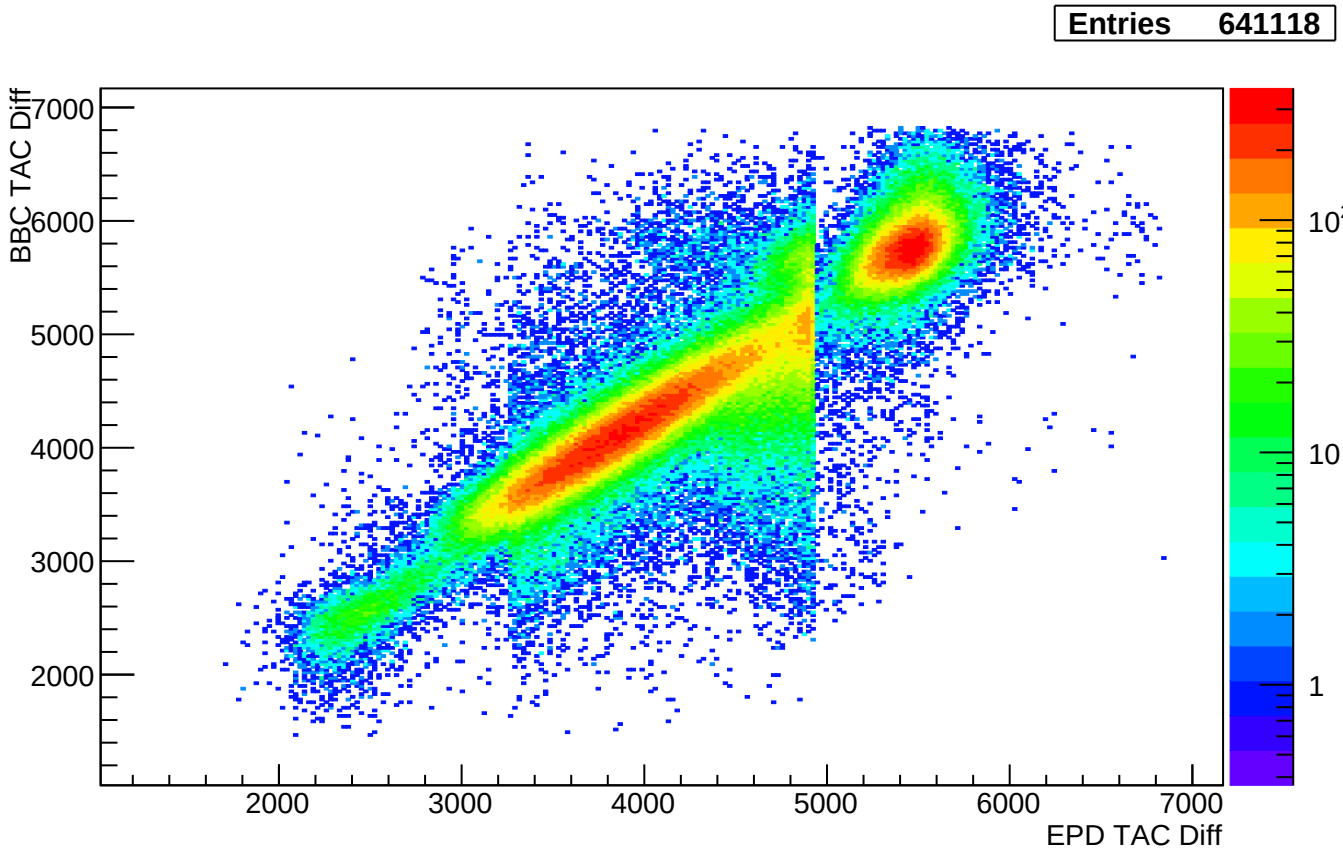

Entries 641118
TOF_Mult
BBC-S-West ADC Sum

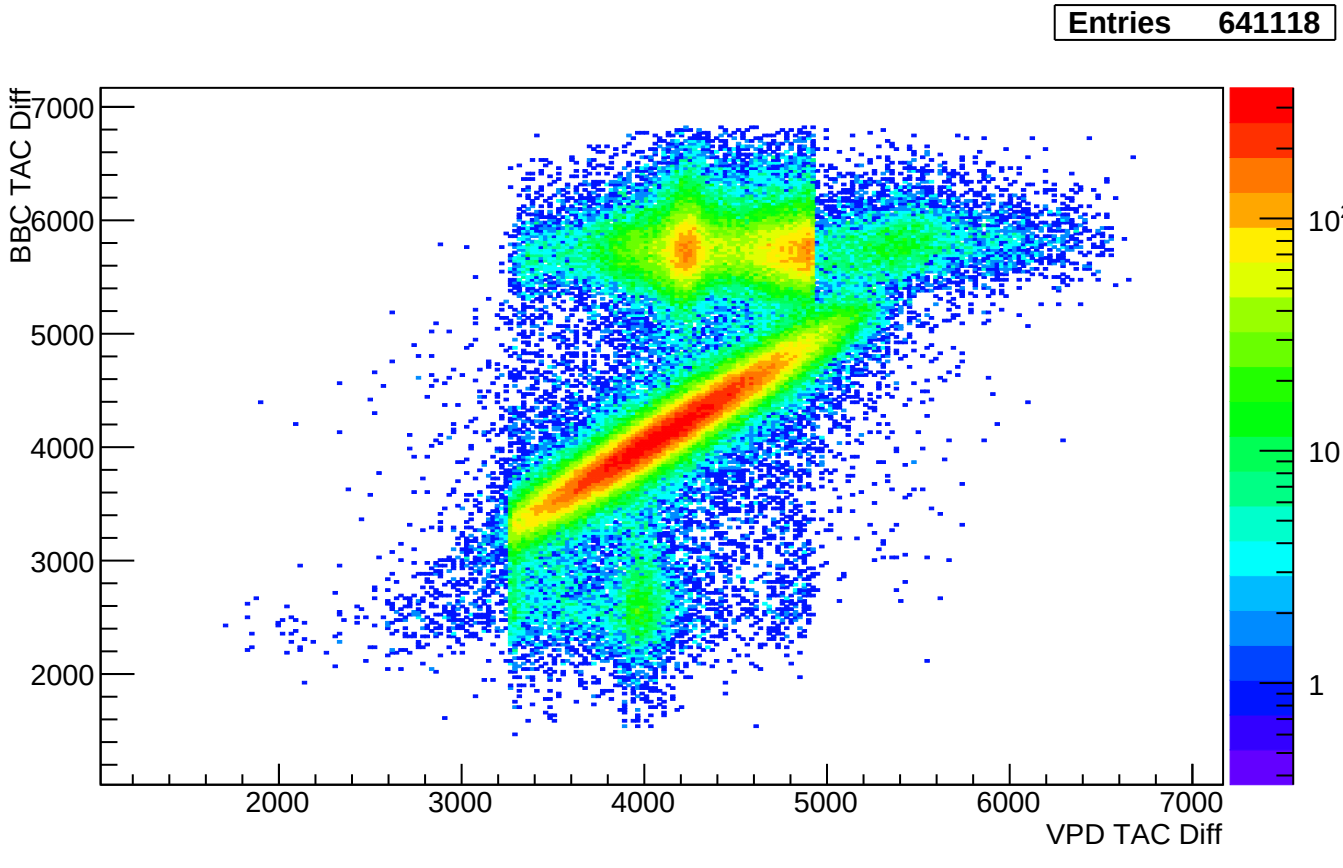

Entries 641118
TOF_Mult
EPD-East Hit Cnt

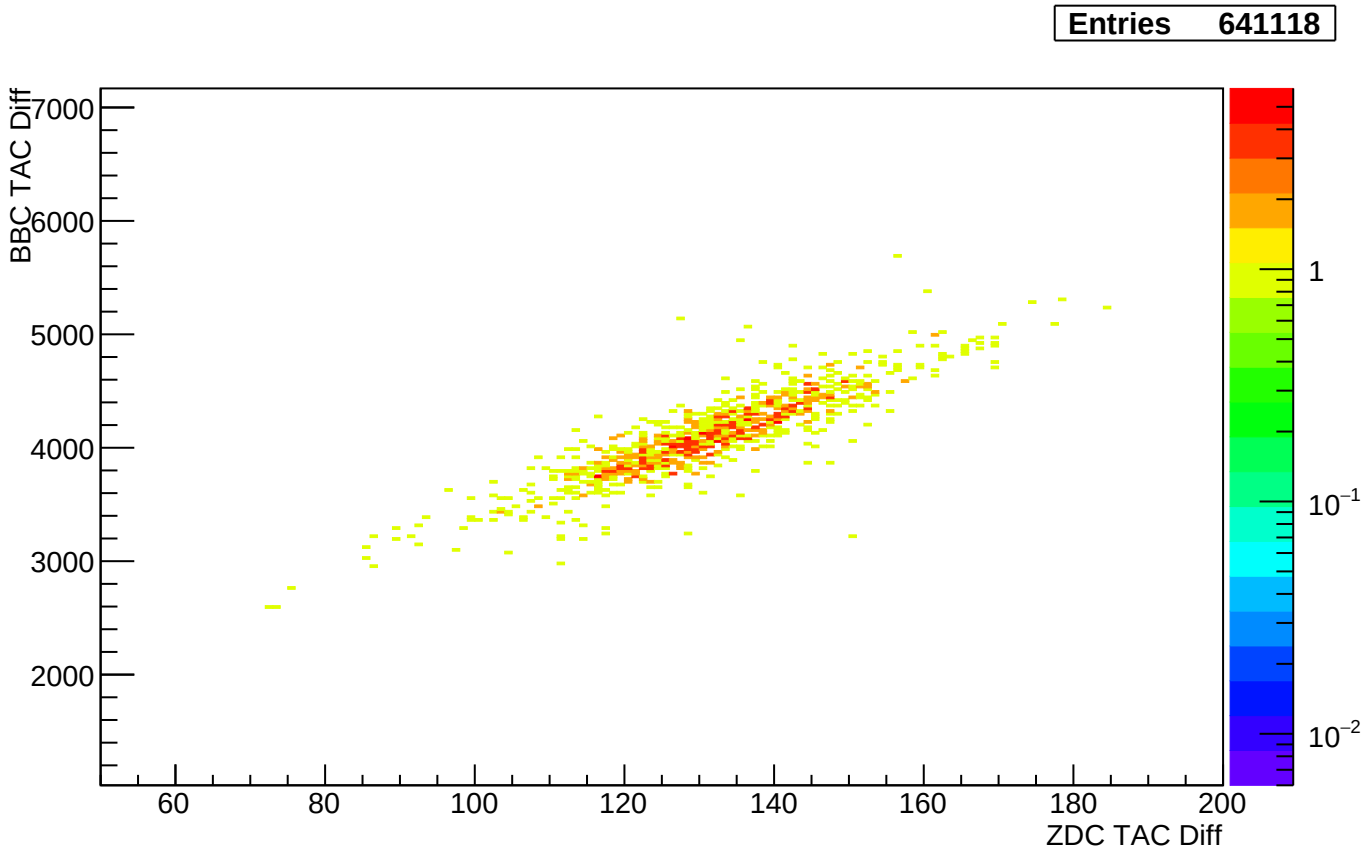

Entries 641118
TOF_Mult
EPD-West Hit Cnt

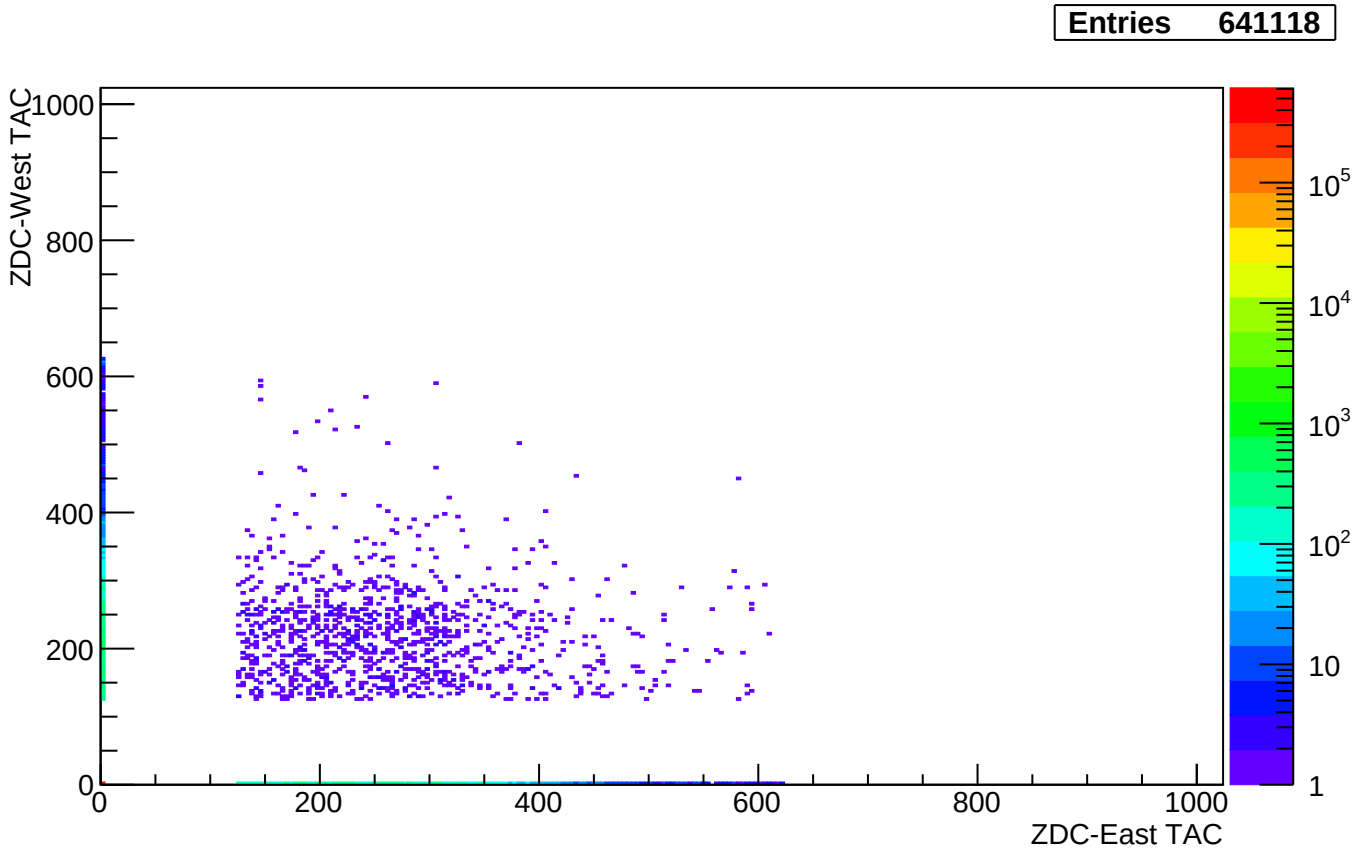

Entries 641118
TOF_Mult
VPD-East ADC Sum

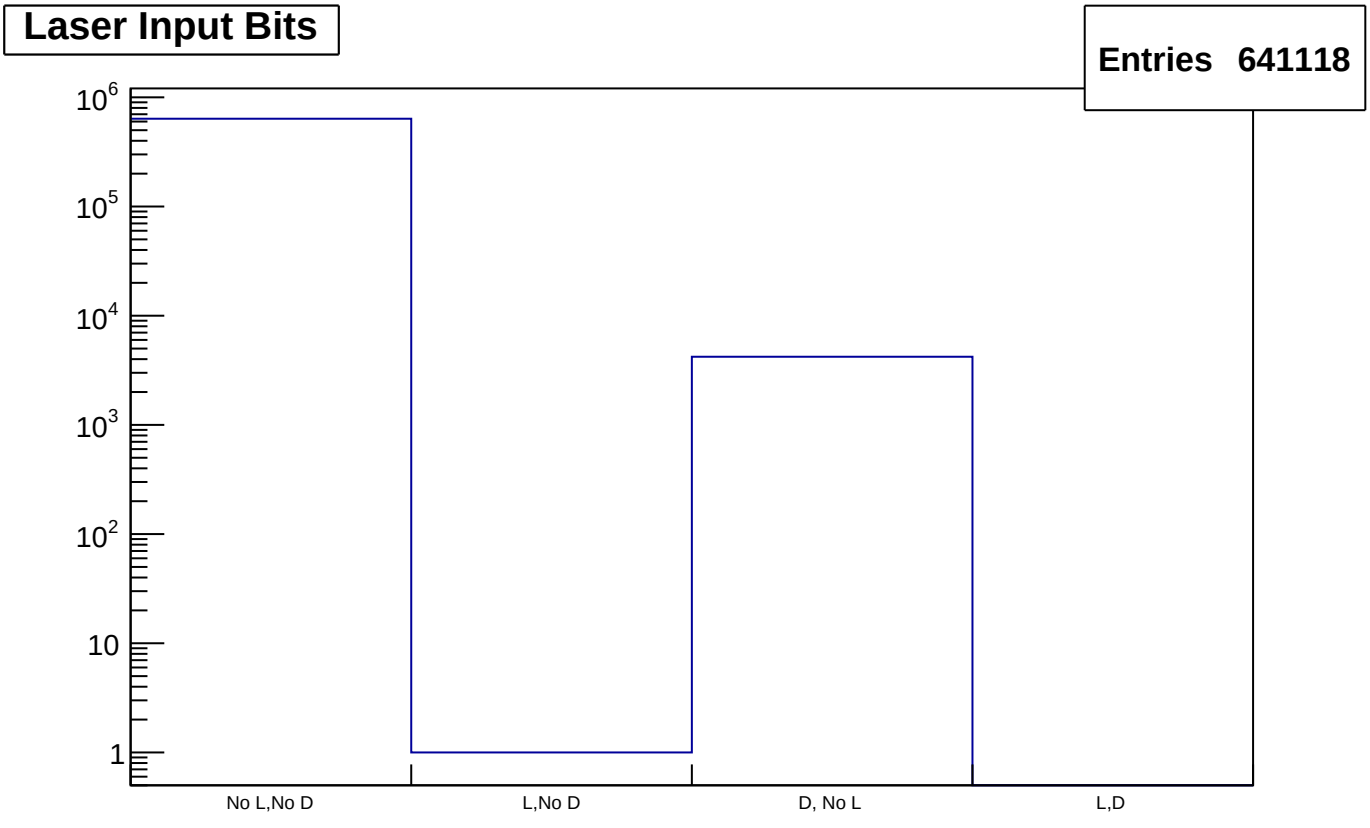

Entries 641118
TOF_Mult
VPD-West ADC Sum

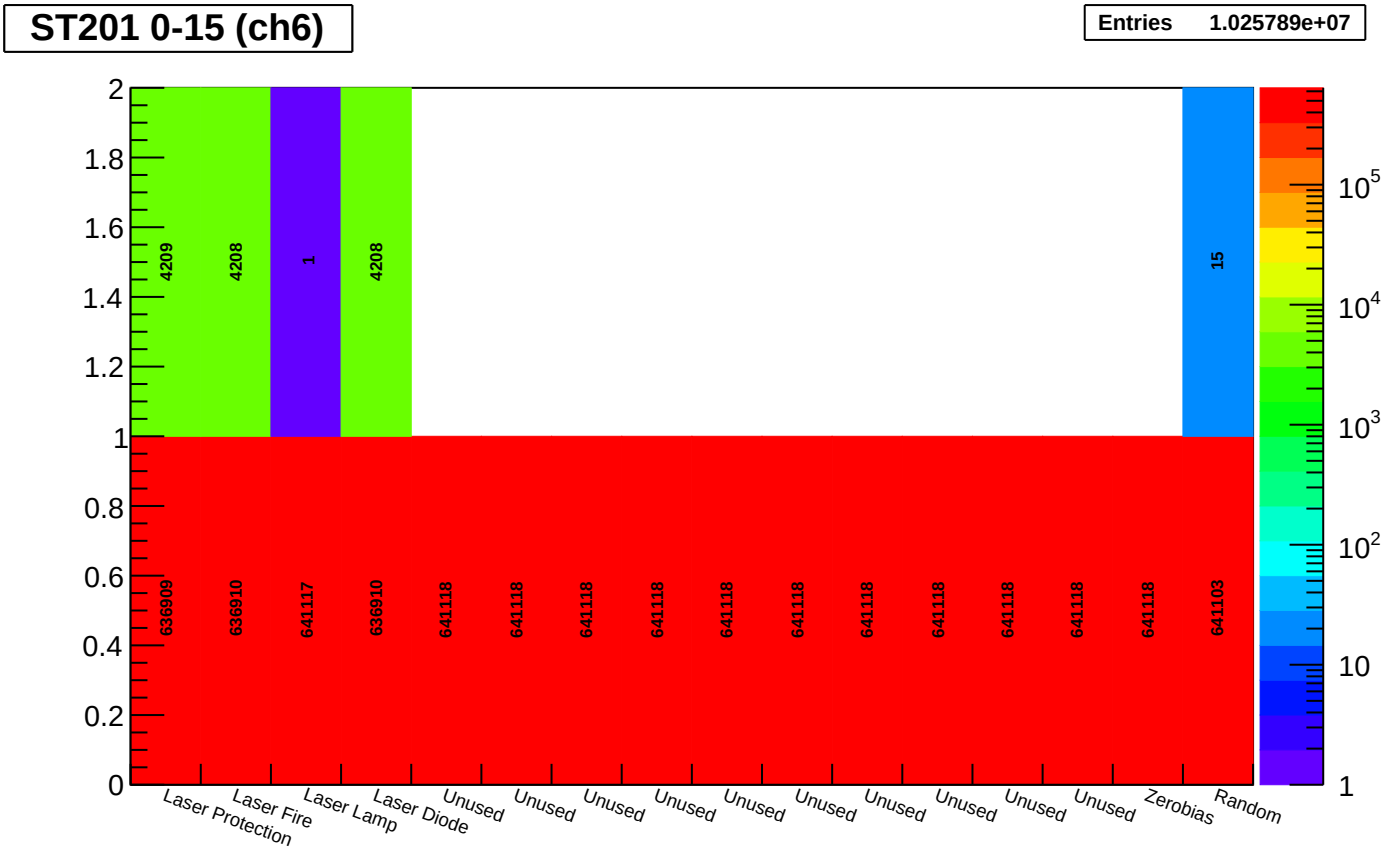

Entries 641118
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

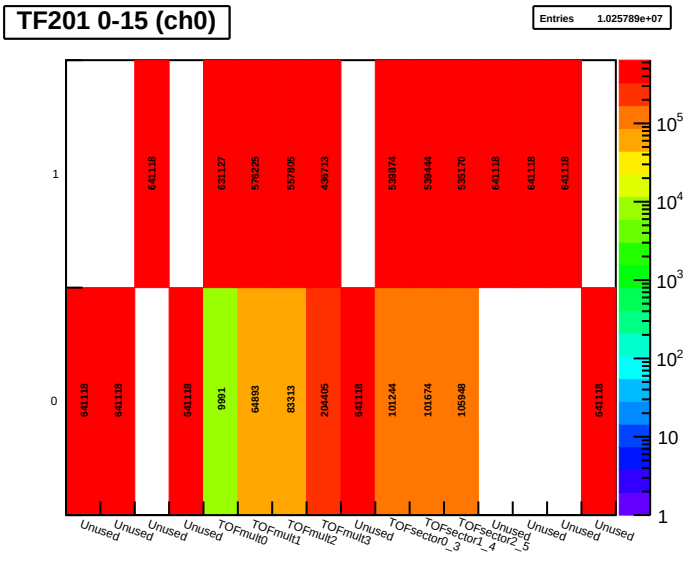

Entries 641118
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

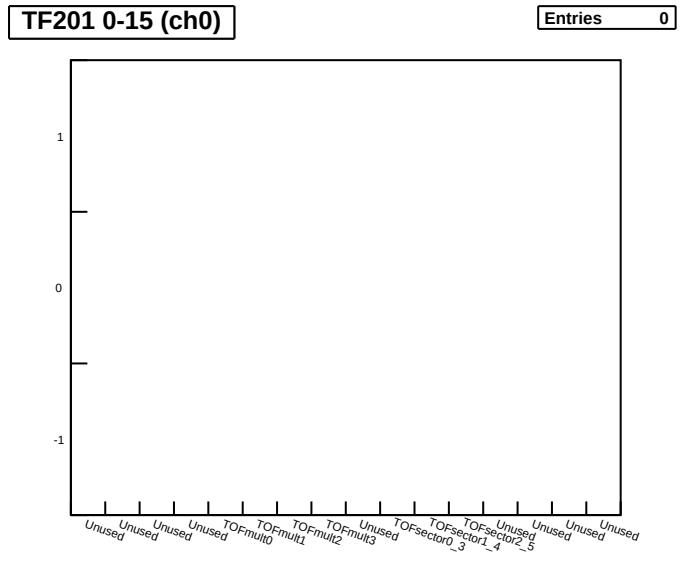

Entries 641118
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

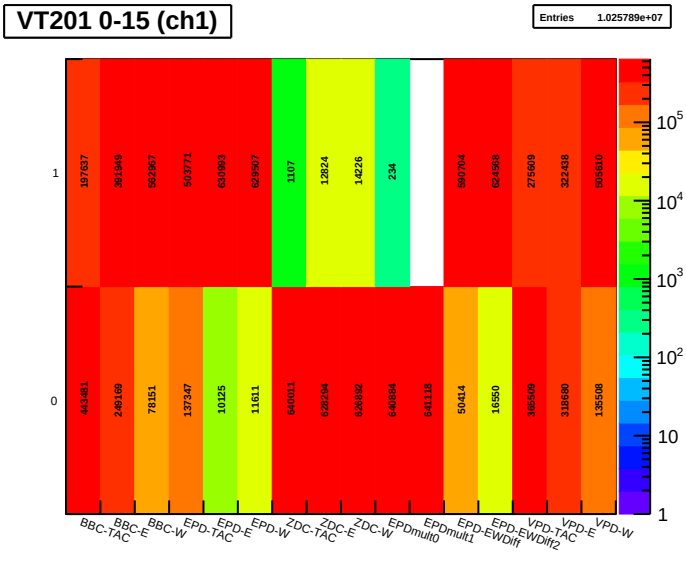

Entries 641118
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

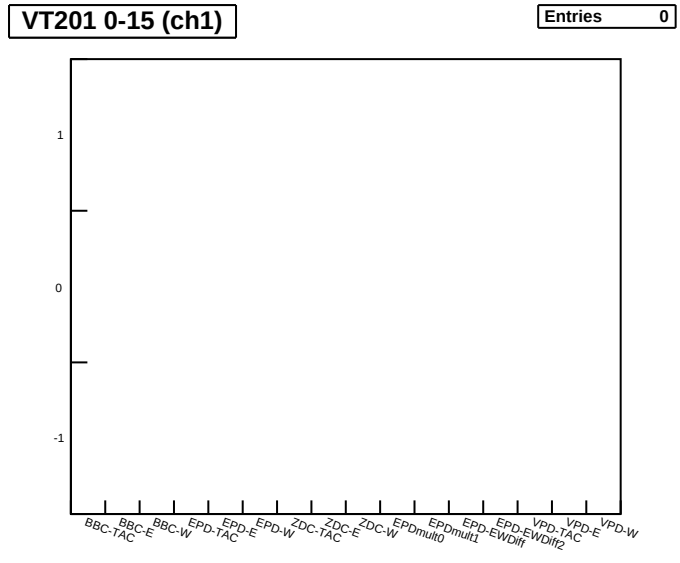

Laser Input Bits
Entries 641118
10^6
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

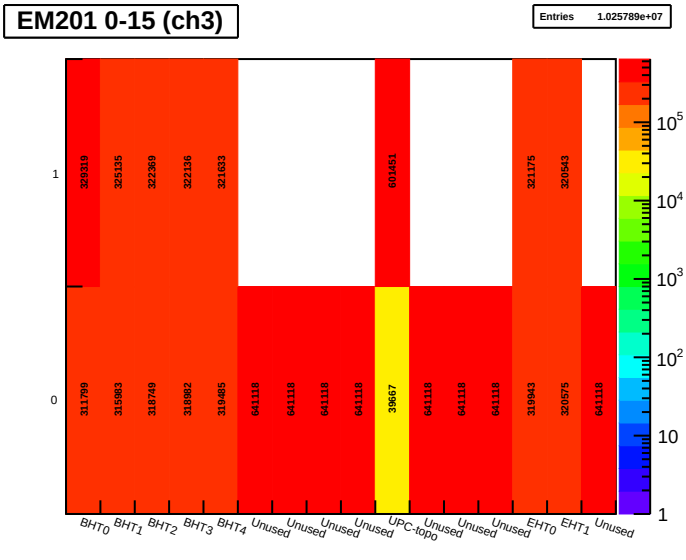

ST201 0-15 (ch6)
Entries 1.025789e+07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4209
4208
1
4208
15
636909
636910
641117
636910
641118
641118
641118
641118
641118
641118
641118
641118
641118
641118
641118
641103
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

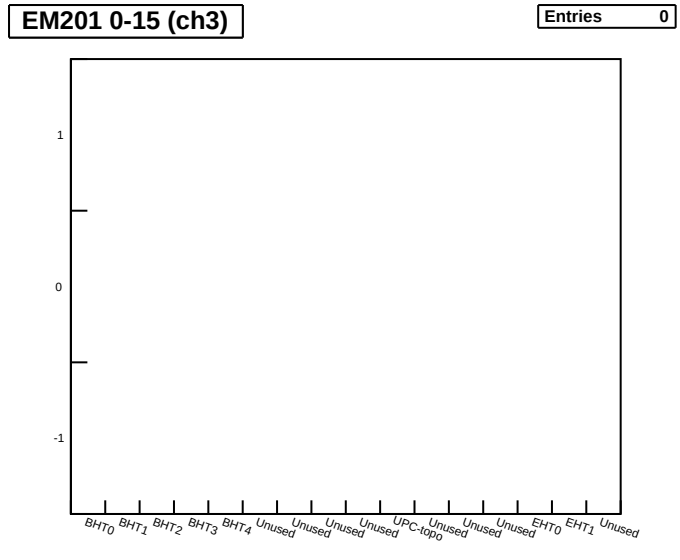

TF201 0-15 (ch0)
Entries 1.025789e+07
1
0
641118 631127 576225 557805 436713 539874 539444 535170 641118 641118 641118
641118 641118 641118 9991 64893 83313 204405 641118 101244 101674 105948 641118
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 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


VT201 0-15 (ch1)
Entries 1.025789e+07
1
0
197637 391949 562967 503771 630993 629507 1107 12824 14226 234 590704 624568 275609 322438 505610
443481 249169 78151 137347 10125 11611 640011 628294 626892 640884 641118 50414 16560 366509 318680 135508
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 1.025789e+07
1
0
329319 325135 322369 322136 321633 601451 321175 320543
311799 315983 318749 318982 319485 641118 641118 641118 641118 39667 641118 641118 641118 319943 320575 641118
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