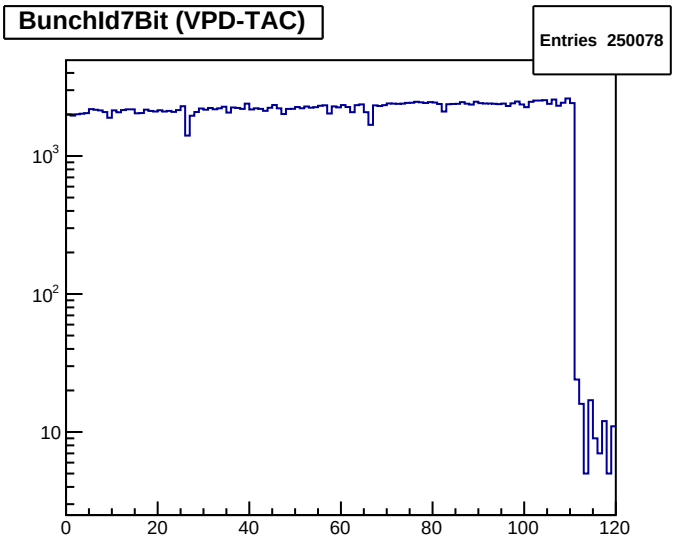
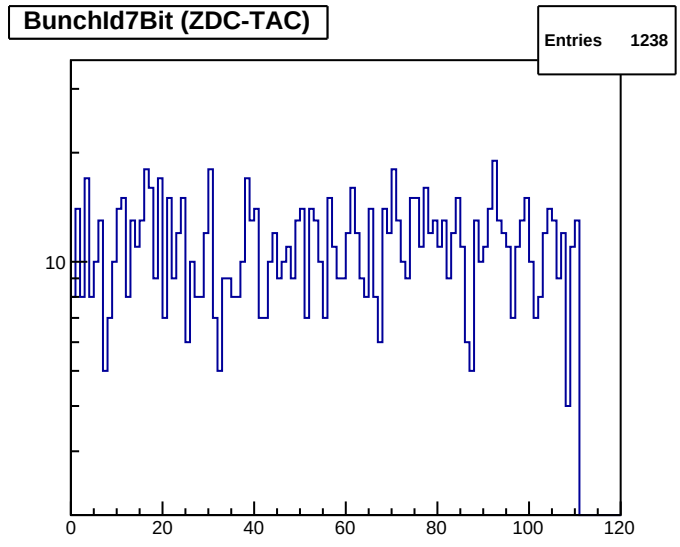
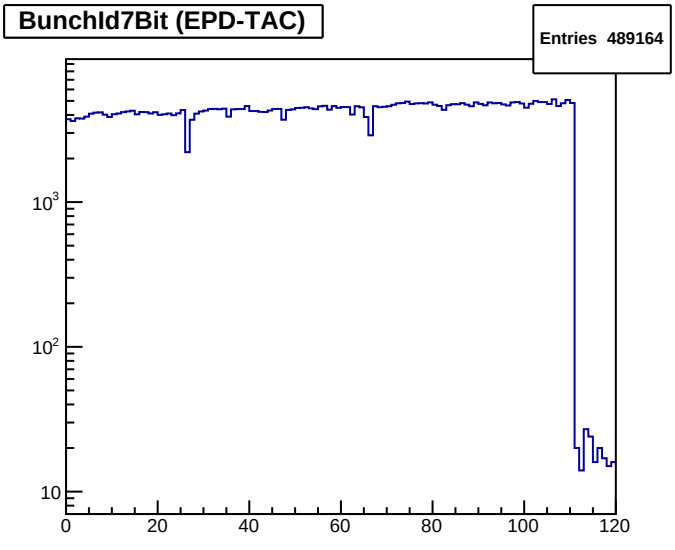
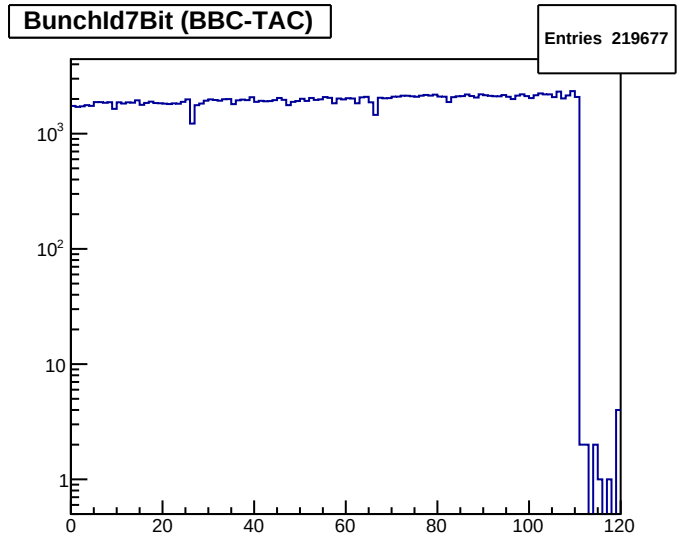
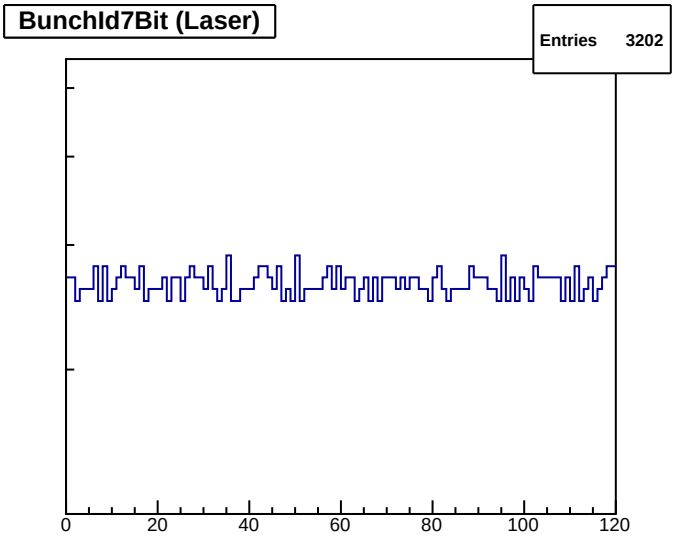
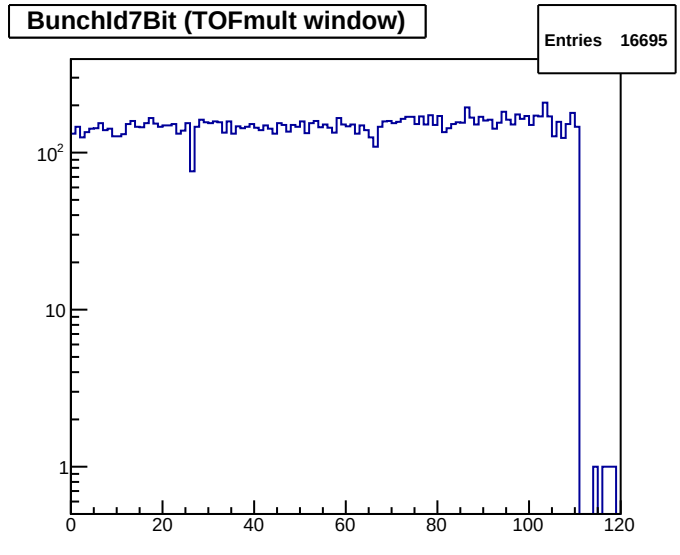

BunchId7Bit (VPD-TAC)
Entries 250078
10^3
10^2
10
0 20 40 60 80 100 120

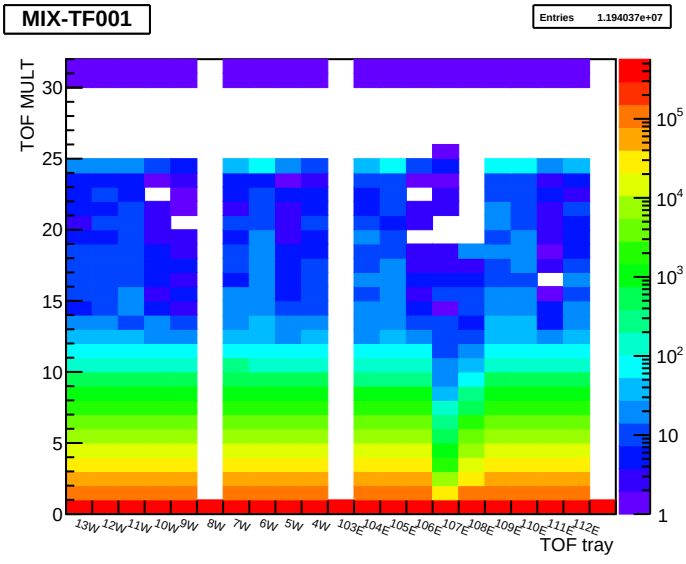

BunchId7Bit (ZDC-TAC)
Entries 1238
10
0 20 40 60 80 100 120

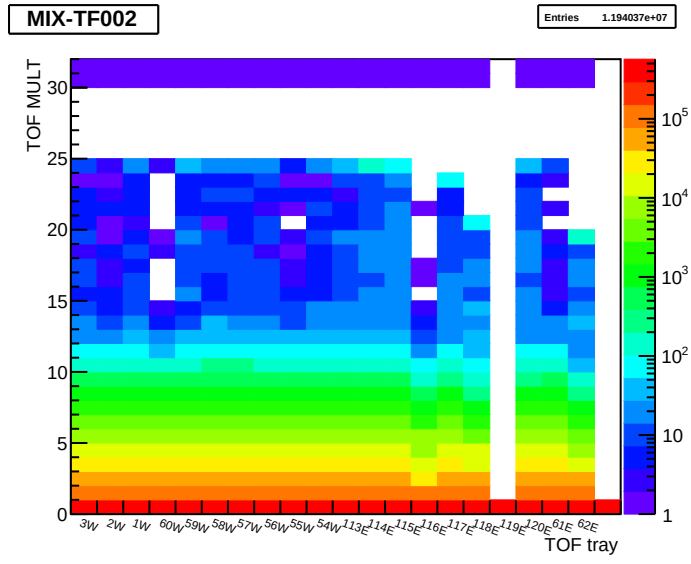

BunchId7Bit (EPD-TAC)
Entries 489164
10^3
10^2
10
0 20 40 60 80 100 120

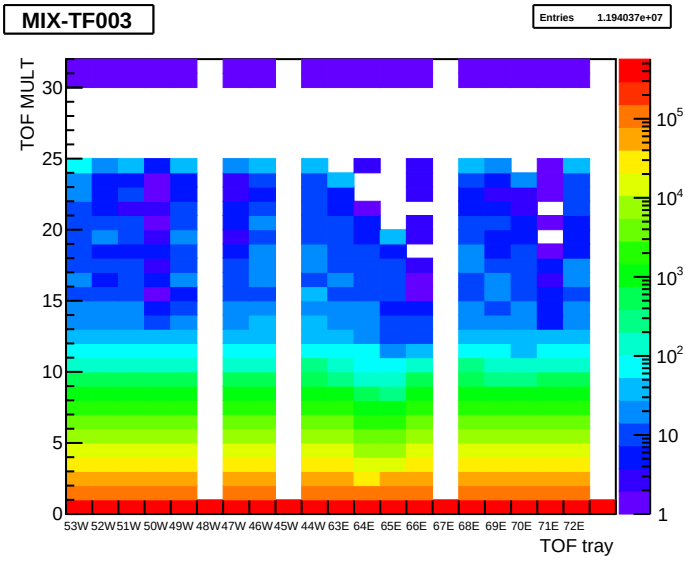

BunchId7Bit (BBC-TAC)
Entries 219677
10^3
10^2
10
1
0 20 40 60 80 100 120

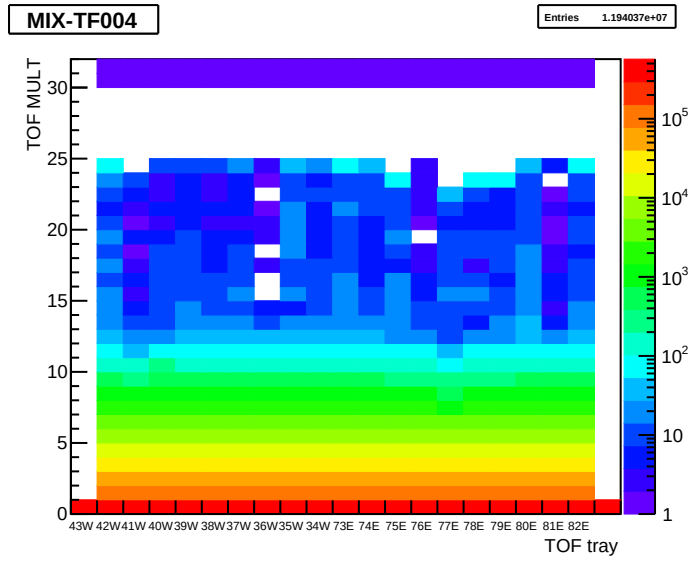

BunchId7Bit (Laser)
Entries 3202
0 20 40 60 80 100 120

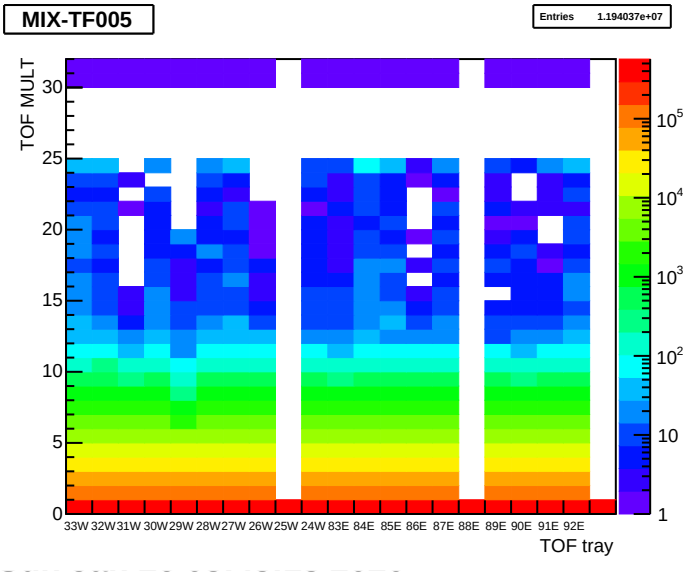

BunchId7Bit (TOFmult window)
Entries 16695
10^2
10
1
0 20 40 60 80 100 120

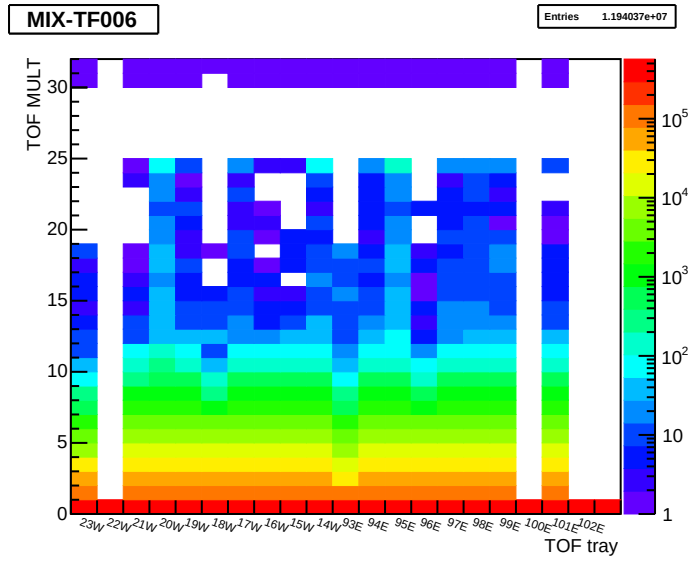

MIX-TF001
Entries 1.194037e+07
TOF MULT
TOF tray

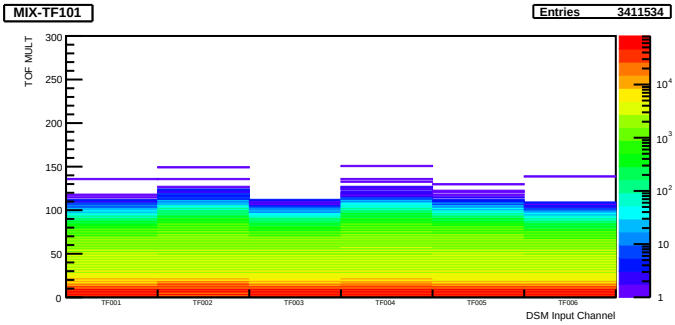

MIX-TF002
Entries 1.194037e+07
TOF MULT
TOF tray

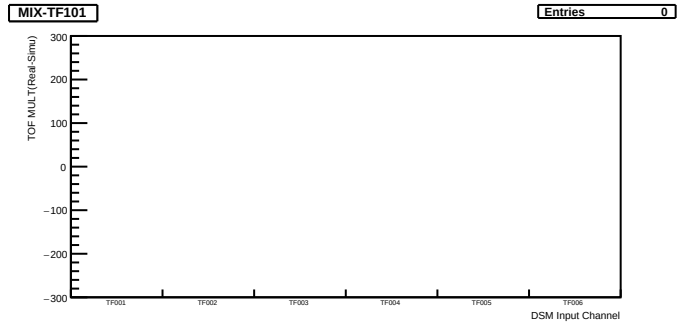

MIX-TF003
Entries 1.194037e+07
TOF MULT
TOF tray

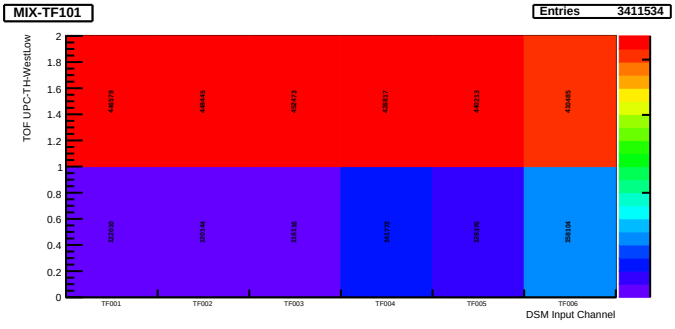

MIX-TF004
Entries 1.194037e+07
TOF MULT
TOF tray

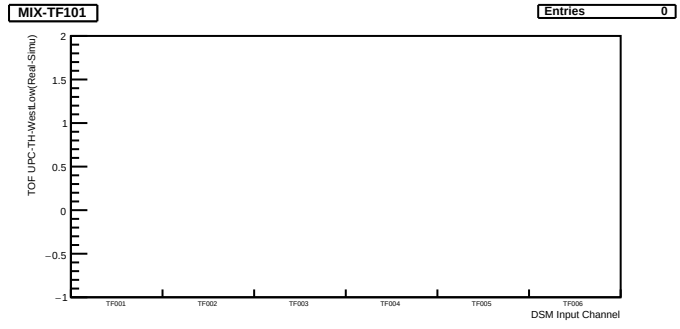

MIX-TF005
Entries 1.194037e+07
TOF MULT
TOF tray

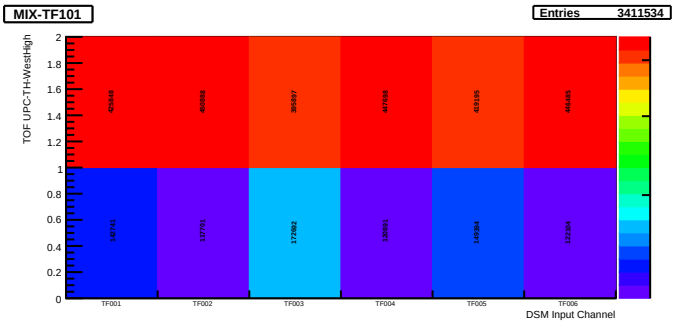

MIX-TF006
Entries 1.194037e+07
TOF MULT
TOF tray

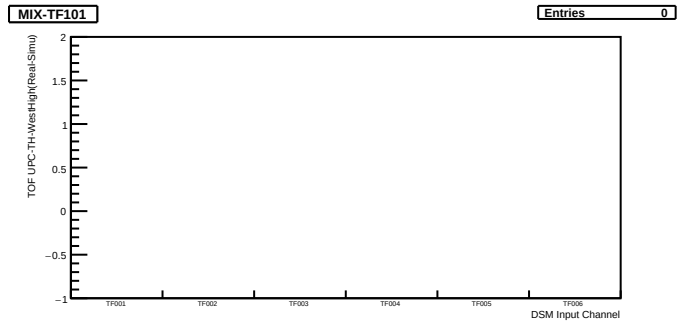

MIX-TF101
Entries 3411534
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

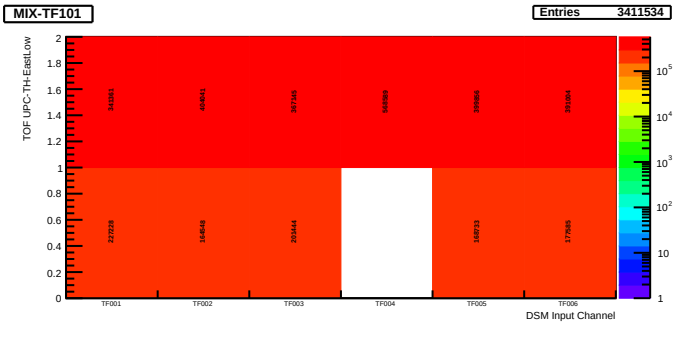

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

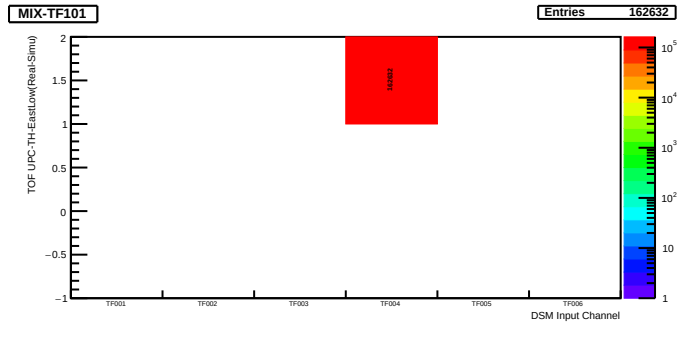

MIX-TF101
Entries 3411534
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

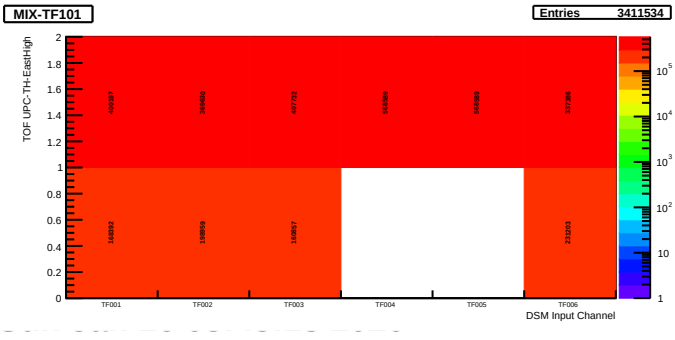

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

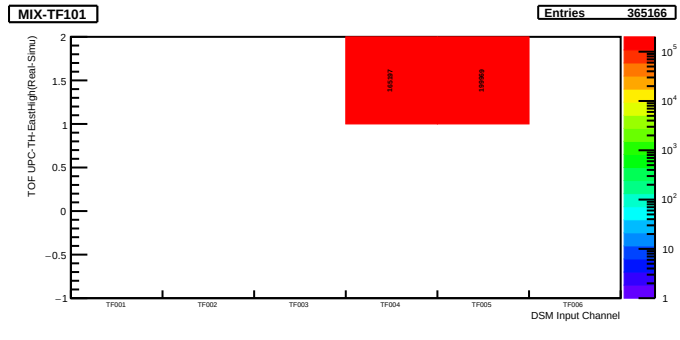

MIX-TF101
Entries 3411534
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

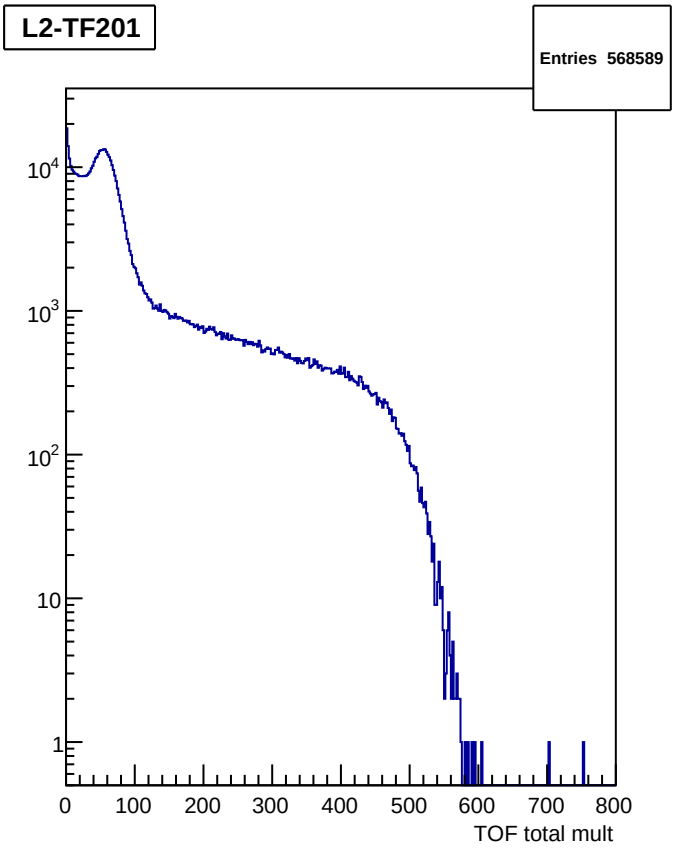

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

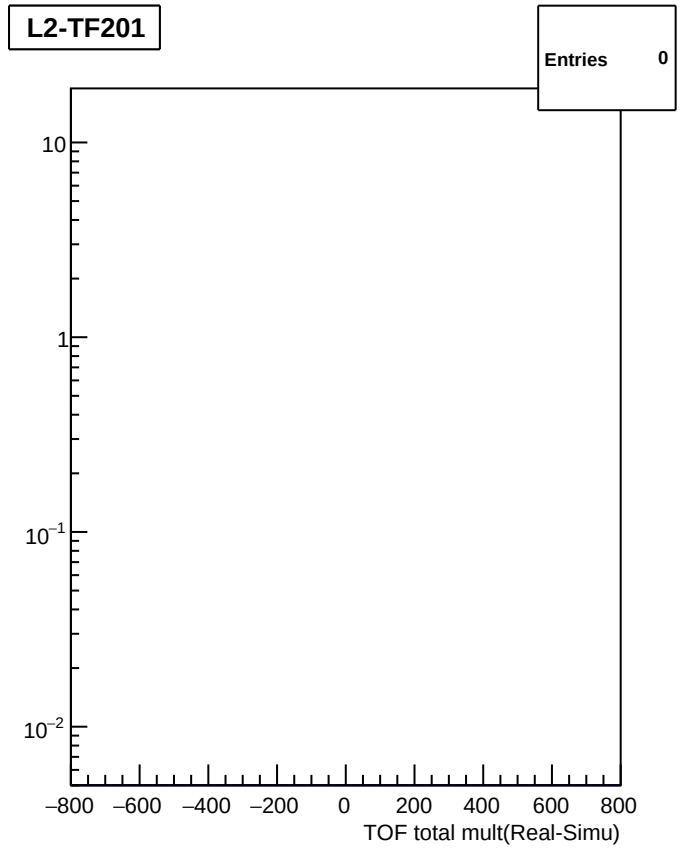

MIX-TF101
Entries 3411534
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

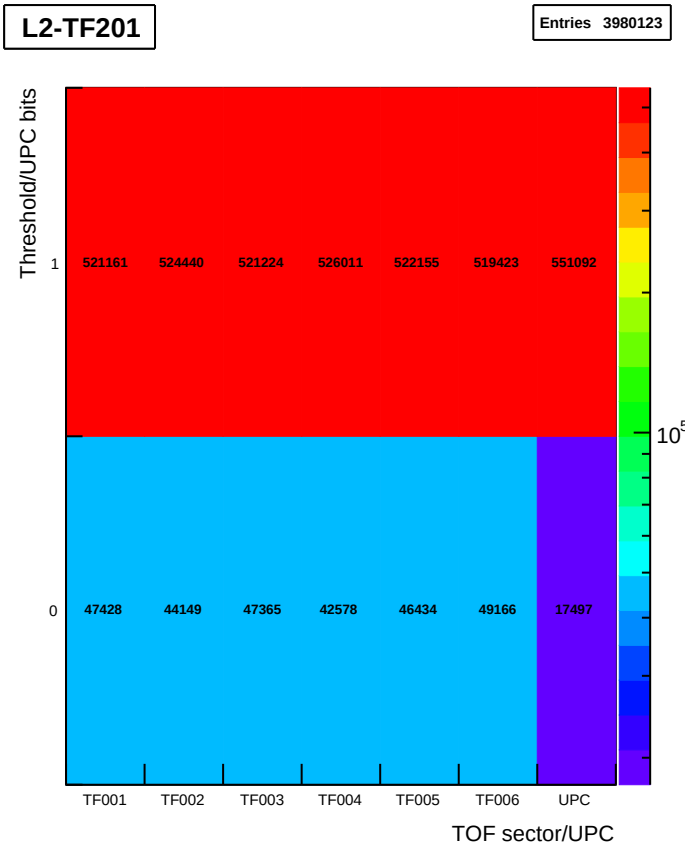

MIX-TF101
Entries 162632
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

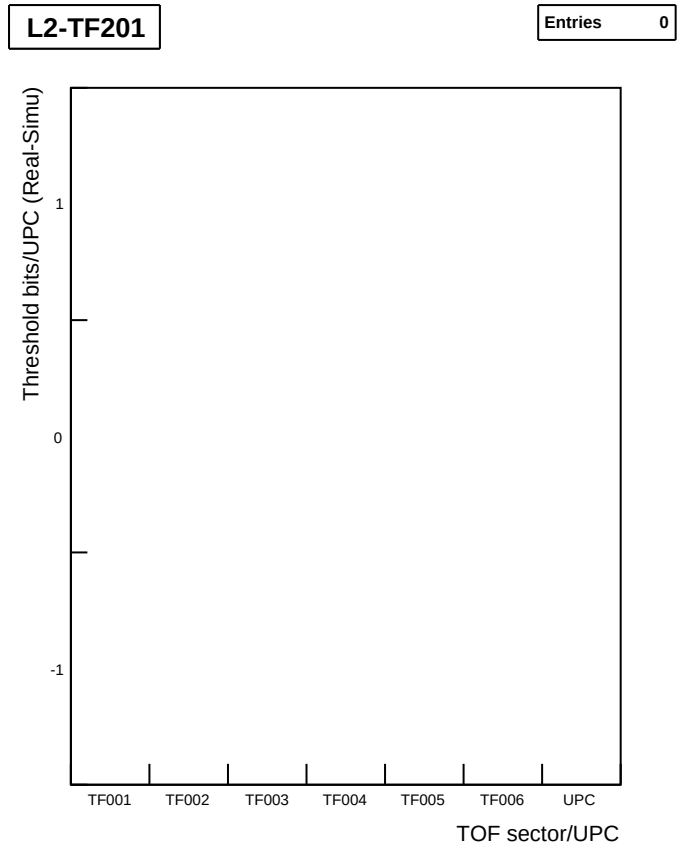

MIX-TF101
Entries 3411534
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

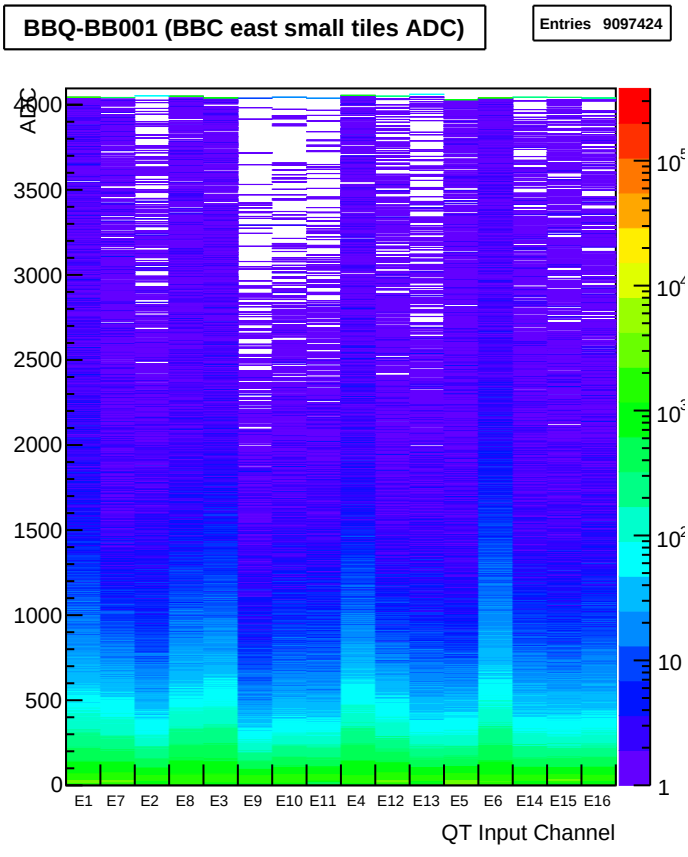

MIX-TF101
Entries 365166
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

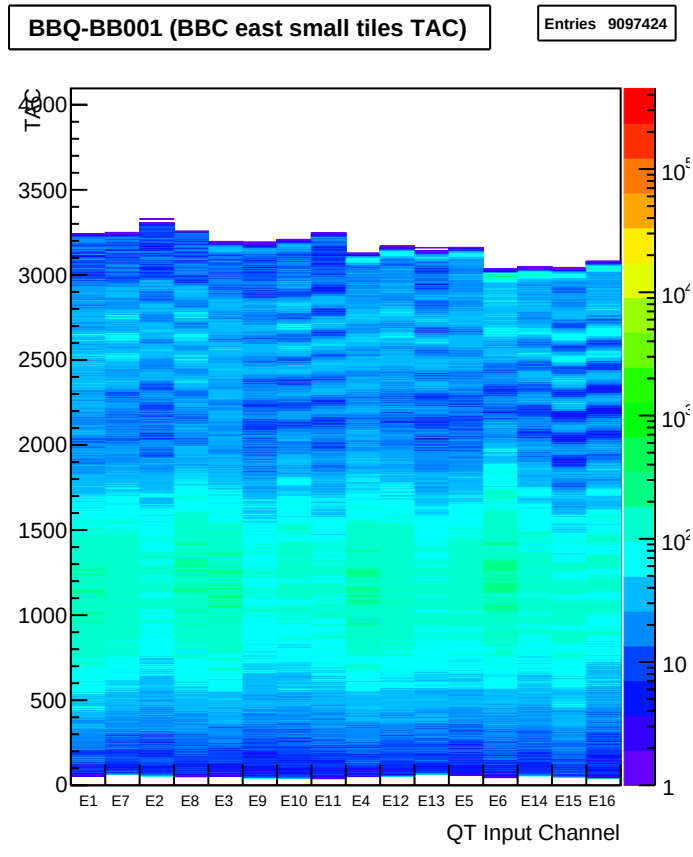

L2-TF201
Entries 568589
TOF total mult

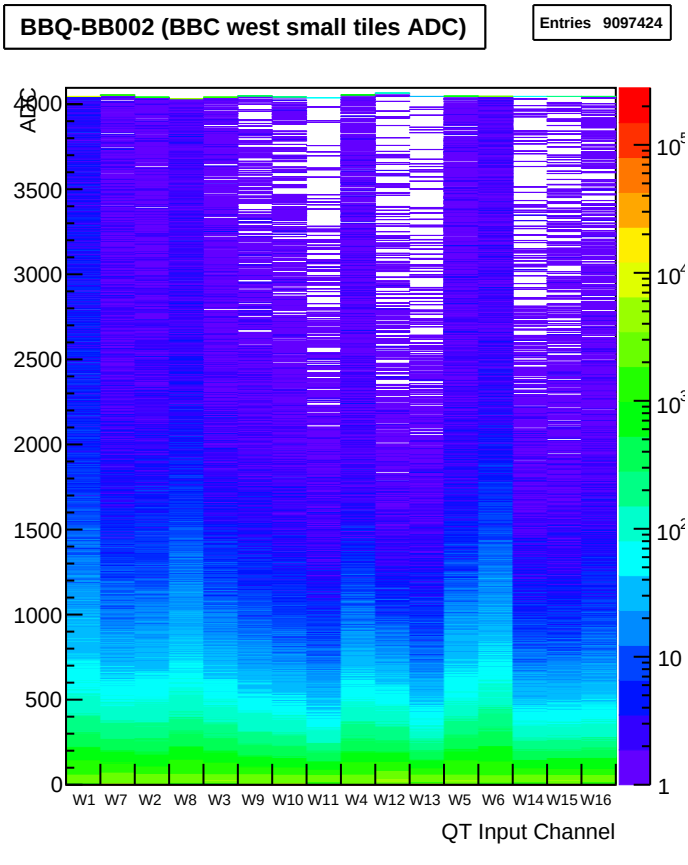

L2-TF201
Entries 0
TOF total mult(Real-Simu)

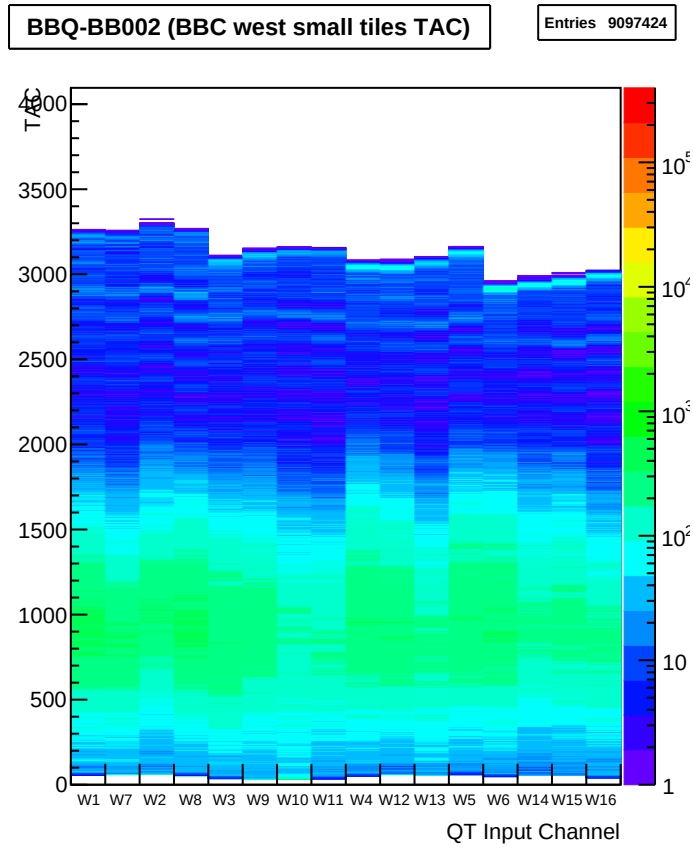

L2-TF201
Entries 3980123
Threshold/UPC bits
521161 524440 521224 526011 522155 519423 551092
47428 44149 47365 42578 46434 49166 17497
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

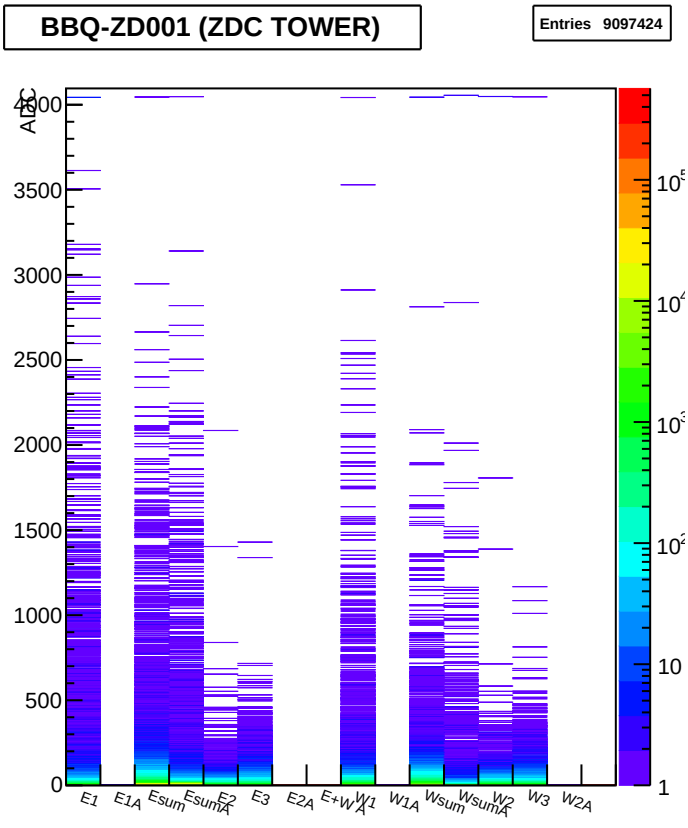

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

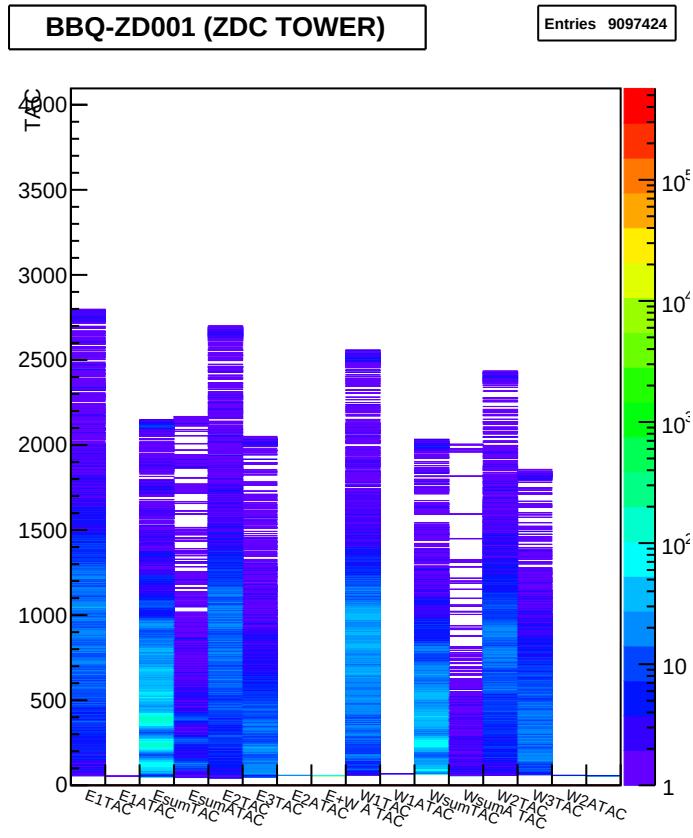

BBQ-BB001 (BBC east small tiles ADC)
Entries 9097424
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

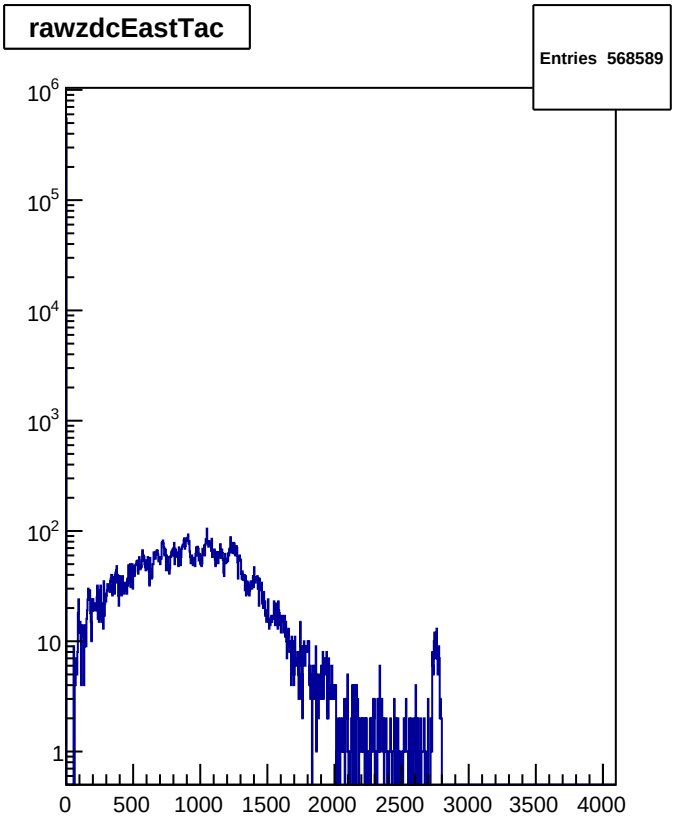

BBQ-BB001 (BBC east small tiles TAC)
Entries 9097424
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

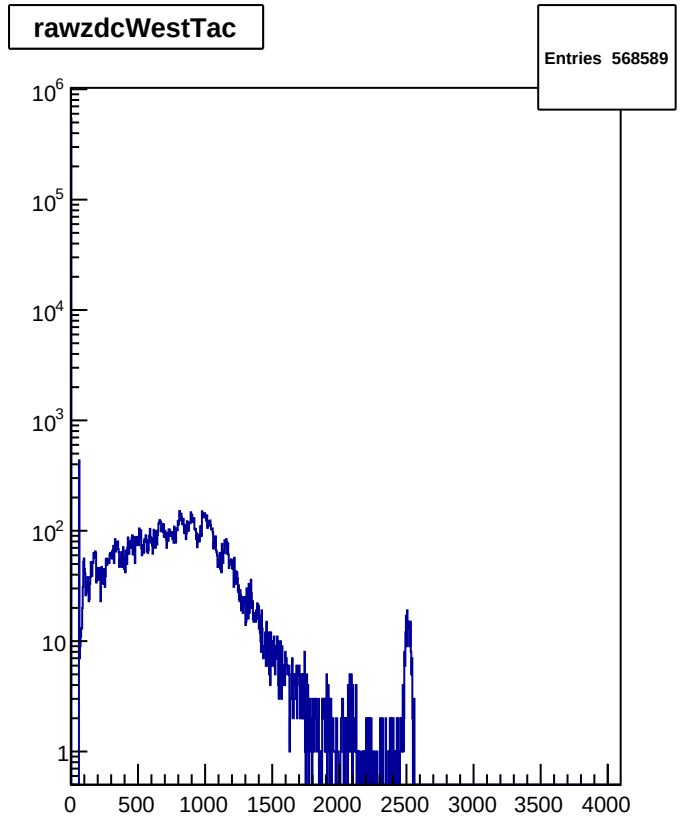

BBQ-BB002 (BBC west small tiles ADC)
Entries 9097424
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

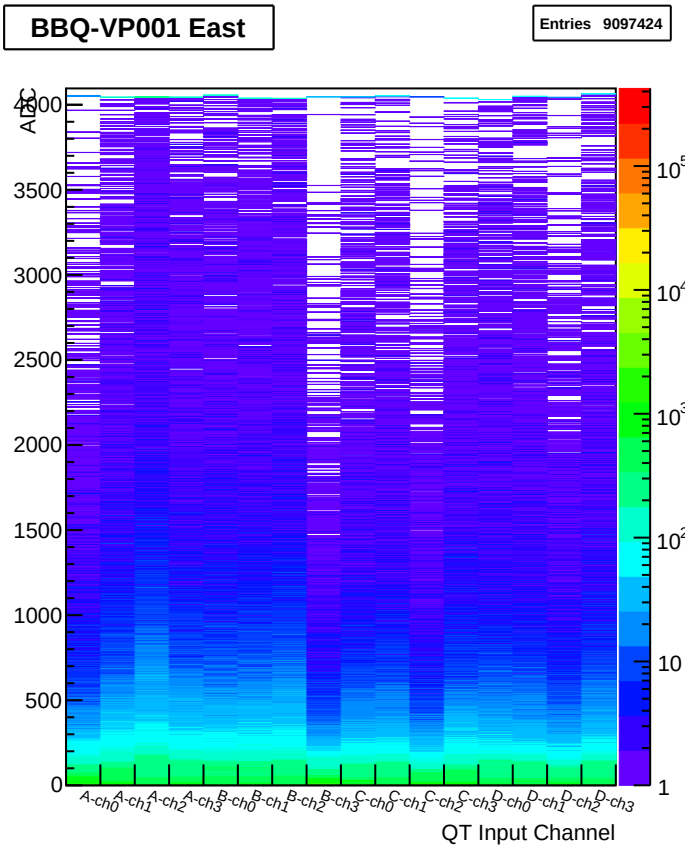

BBQ-BB002 (BBC west small tiles TAC)
Entries 9097424
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

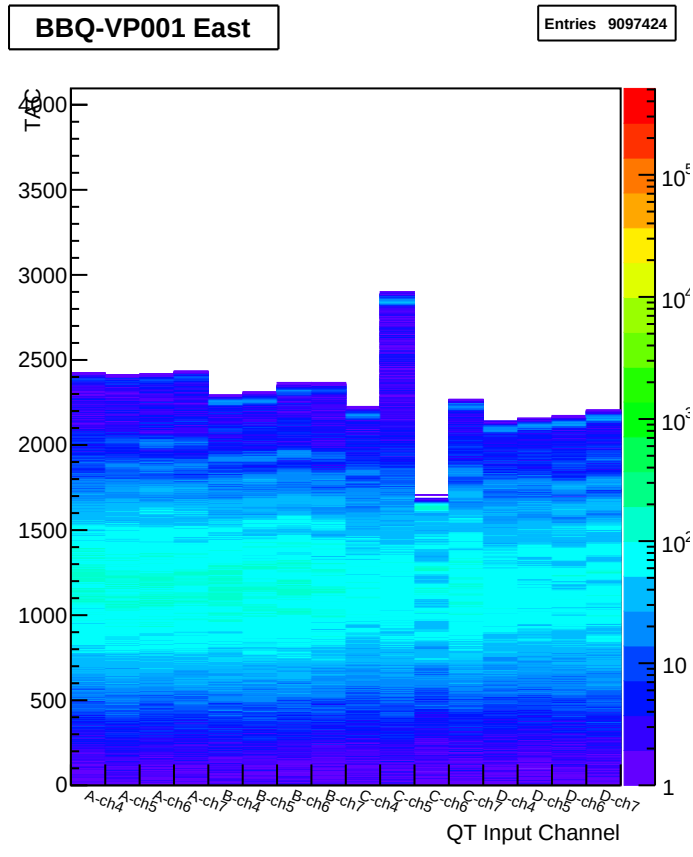

BBQ-ZD001 (ZDC TOWER)
Entries 9097424
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W A
W1
W1A
Wsum
WsumA
W2
W3
W2A

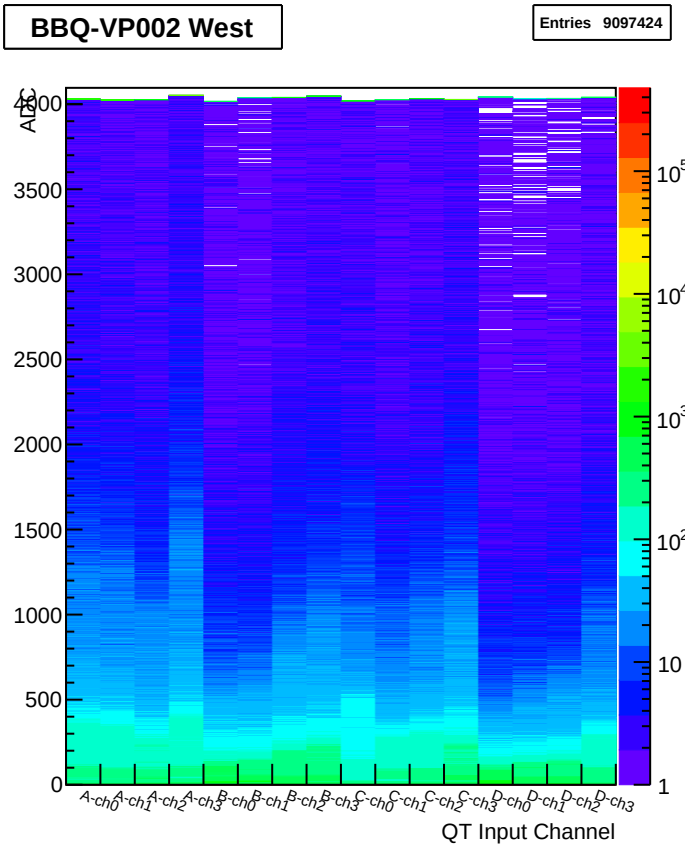

BBQ-ZD001 (ZDC TOWER)
Entries 9097424
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

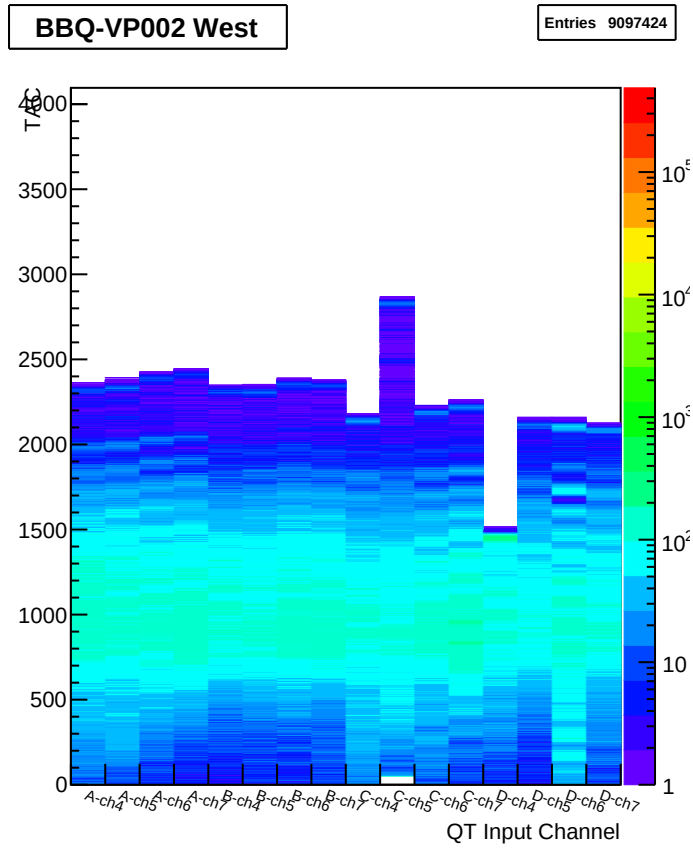

rawzdcEastTac
Entries 568589

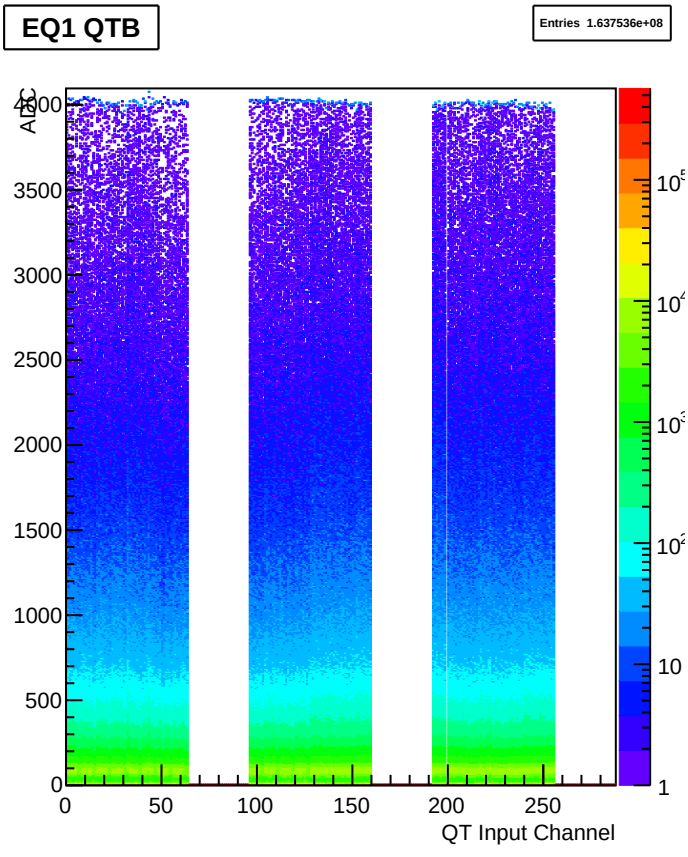

rawzdcWestTac
Entries 568589

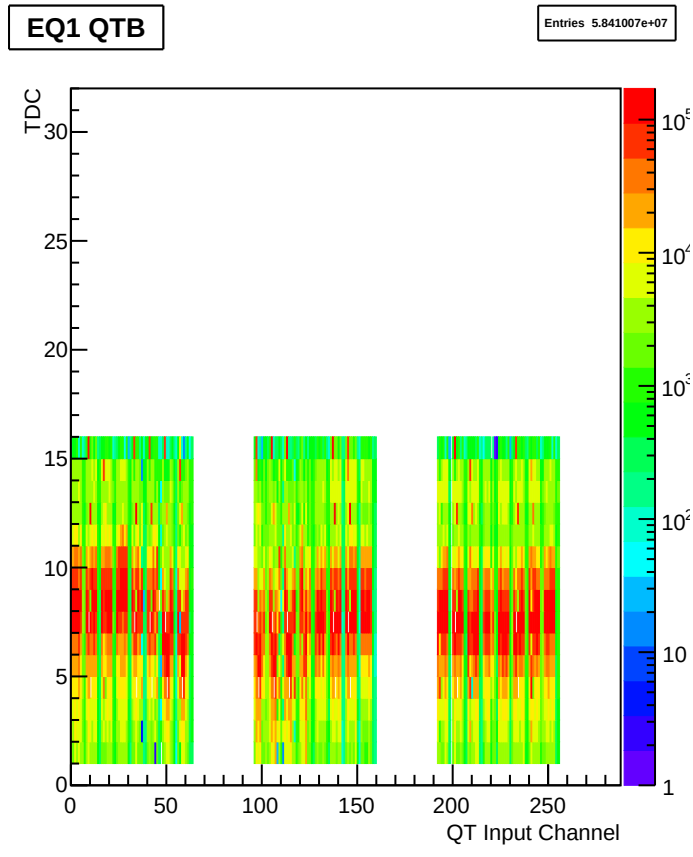

BBQ-VP001 East
Entries 9097424
ADC
QT Input Channel

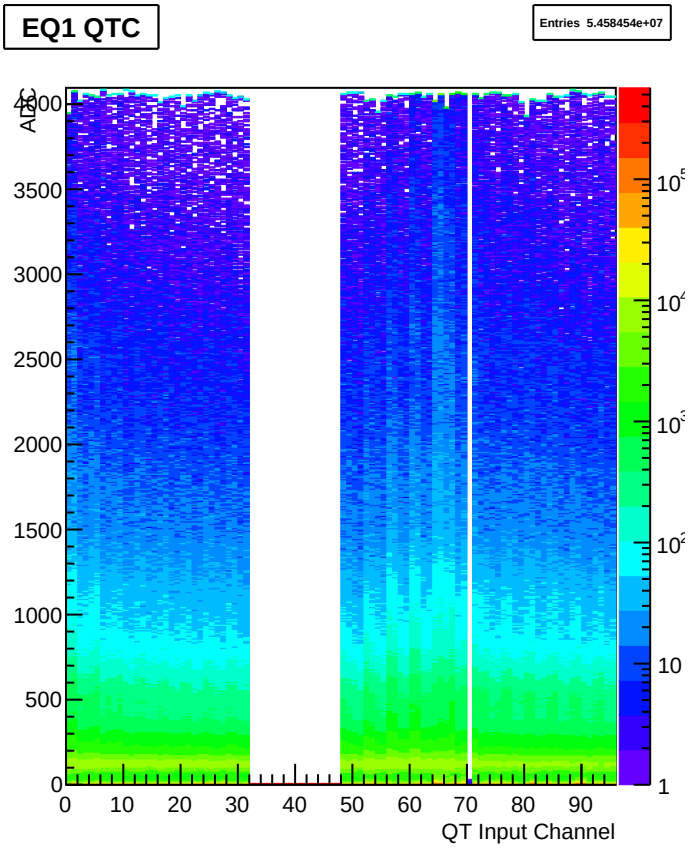

BBQ-VP001 East
Entries 9097424
ADC
QT Input Channel

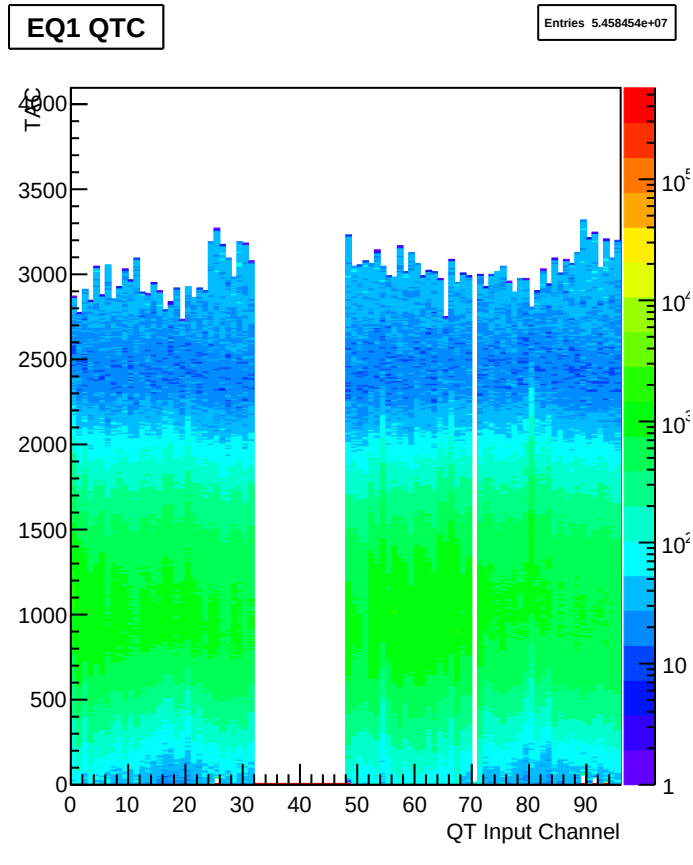

BBQ-VP002 West
Entries 9097424
ADC
QT Input Channel

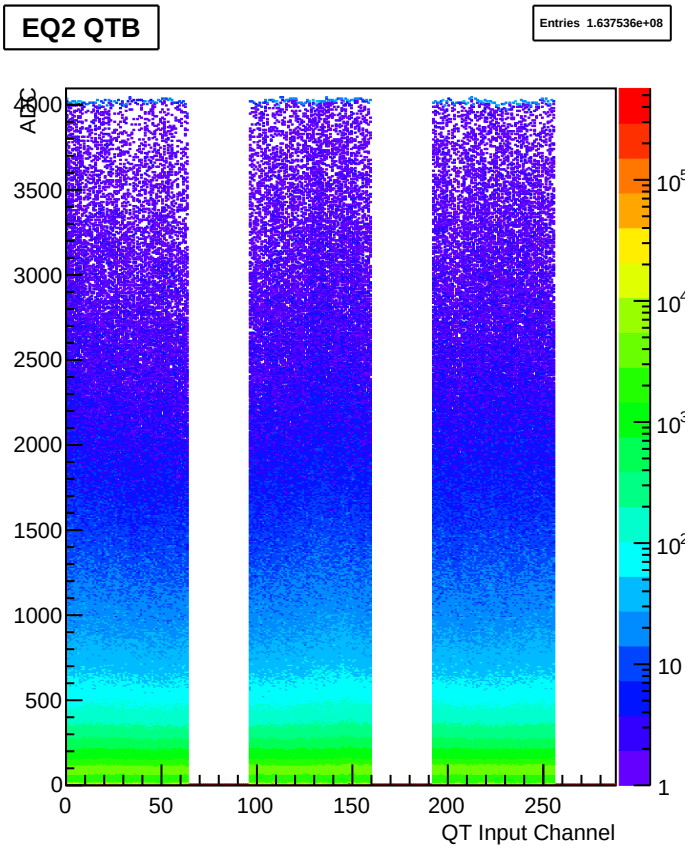

BBQ-VP002 West
Entries 9097424
ADC
QT Input Channel

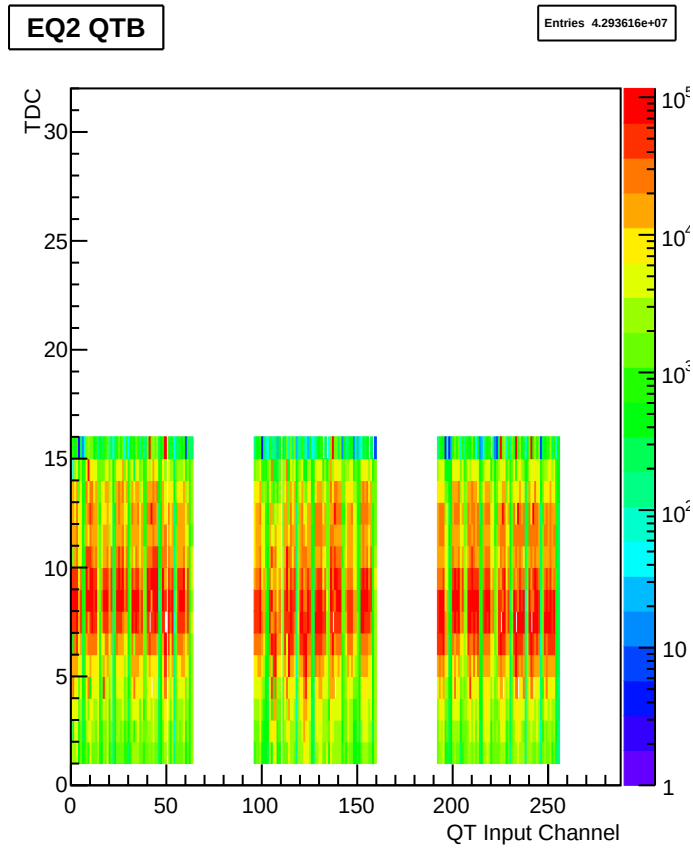

EQ1 QTB
Entries 1.637536e+08
ADC
QT Input Channel

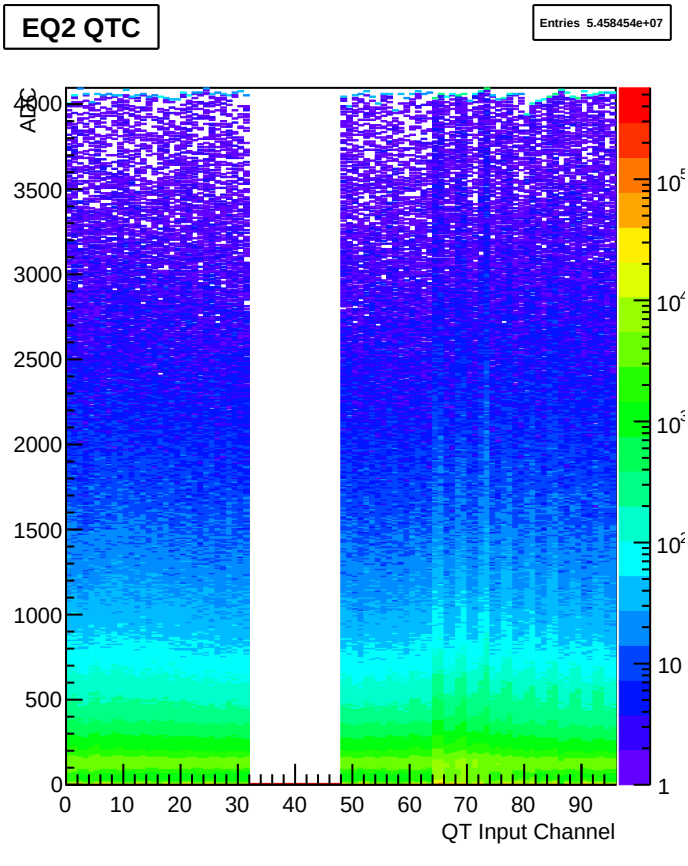

EQ1 QTB
Entries 5.841007e+07
TDC
QT Input Channel

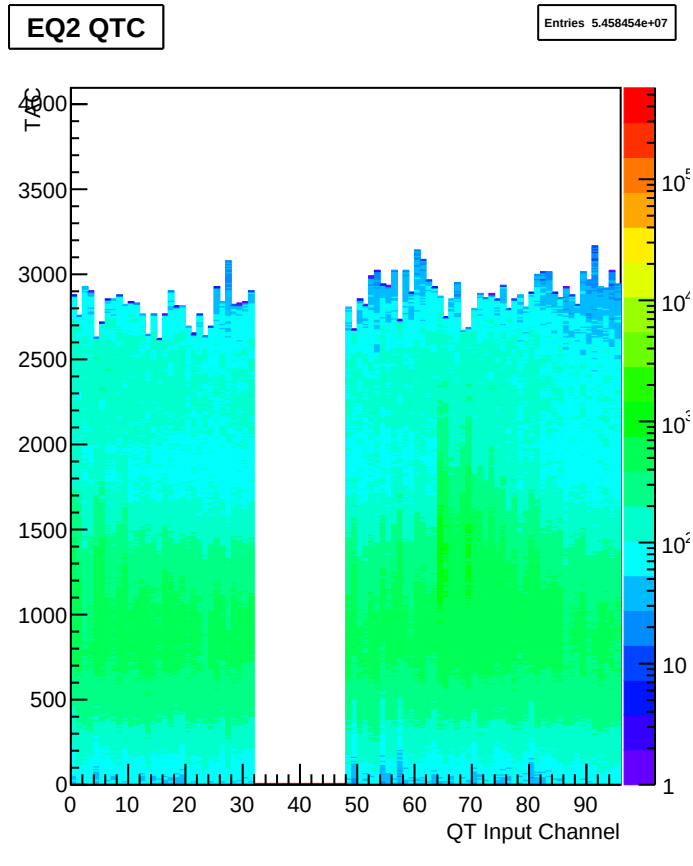

EQ1 QTC
Entries 5.458454e+07
ADC
QT Input Channel

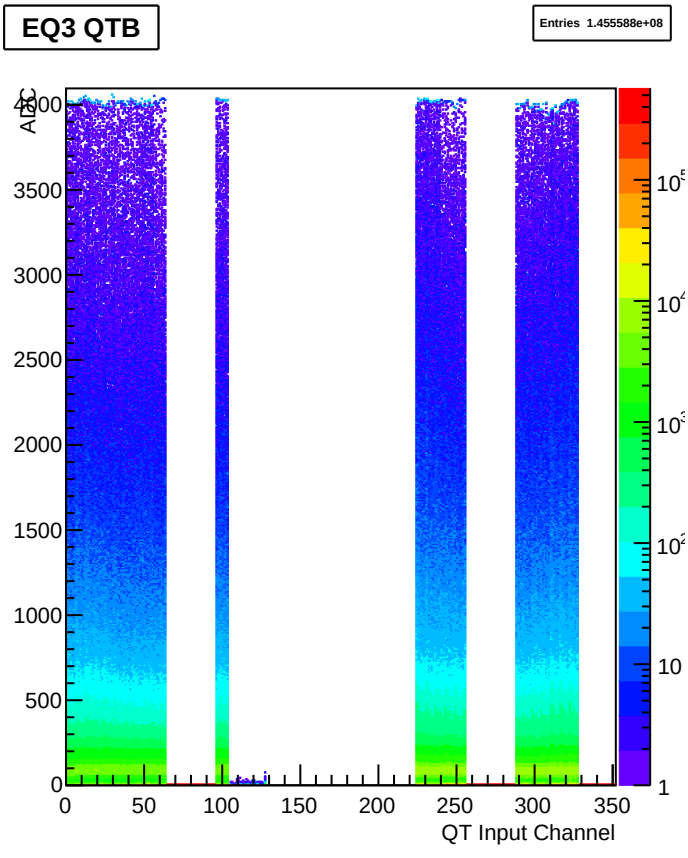

EQ1 QTC
Entries 5.458454e+07
TADC
QT Input Channel

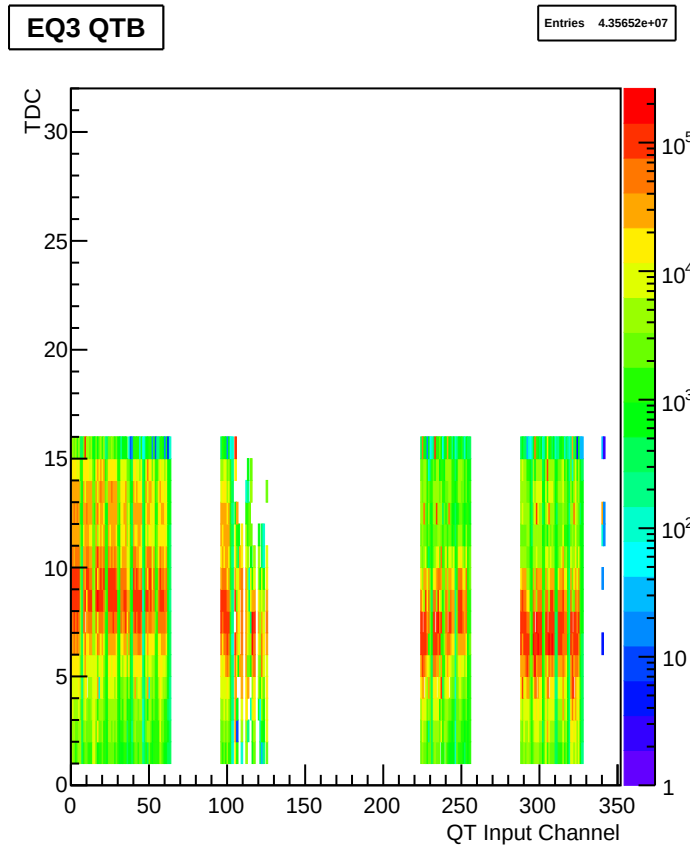

EQ2 QTB
Entries 1.637536e+08
ADC
QT Input Channel

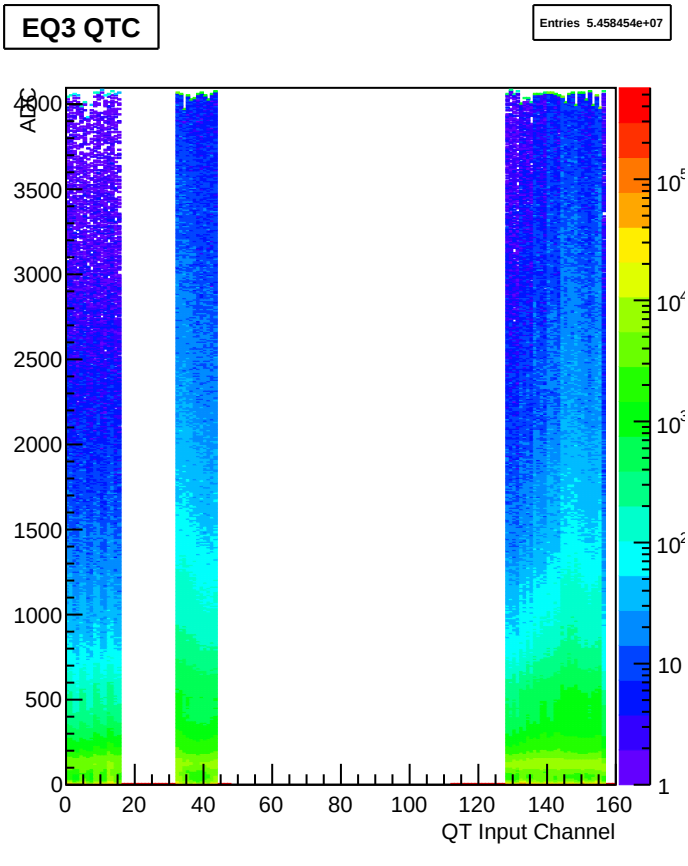

EQ2 QTB
Entries 4.293616e+07
TDC
QT Input Channel


EQ2 QTC
Entries 5.458454e+07
ADC
QT Input Channel


EQ2 QTC
Entries 5.458454e+07
TADC
QT Input Channel


EQ3 QTB
Entries 1.455588e+08
ADC
QT Input Channel


EQ3 QTB
Entries 4.35652e+07
TDC
QT Input Channel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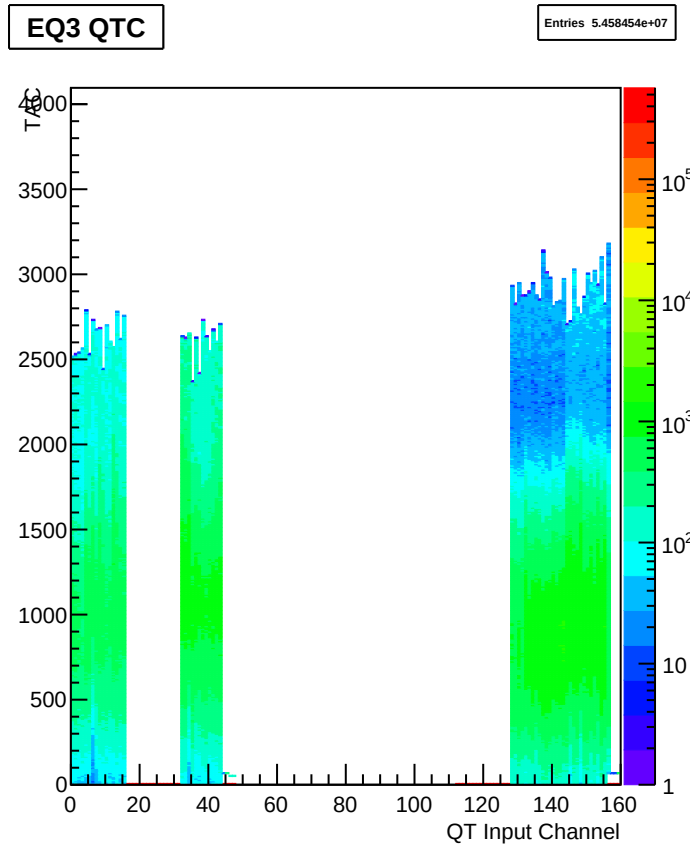
ADC
QT Input Channel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Entries 5.458454e+07
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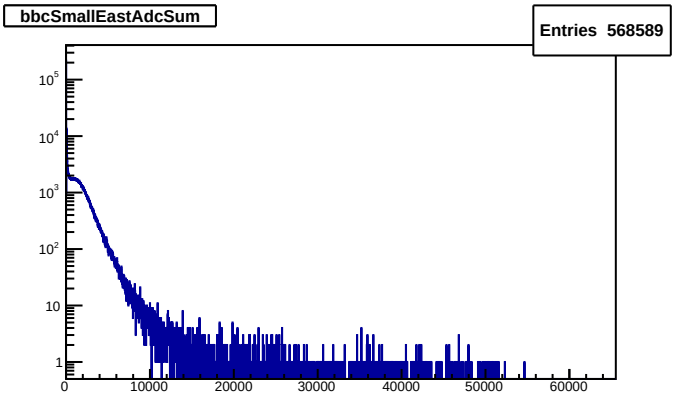
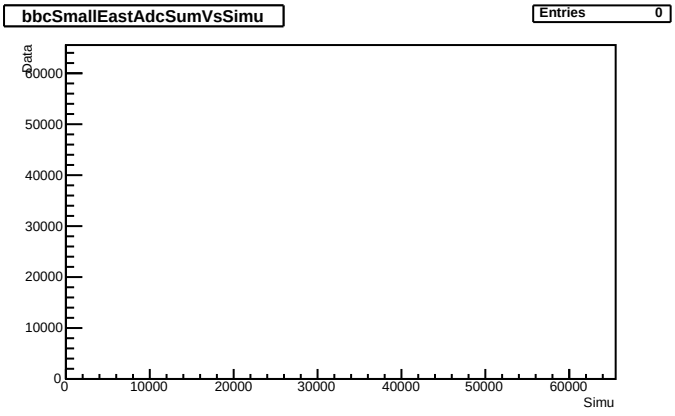
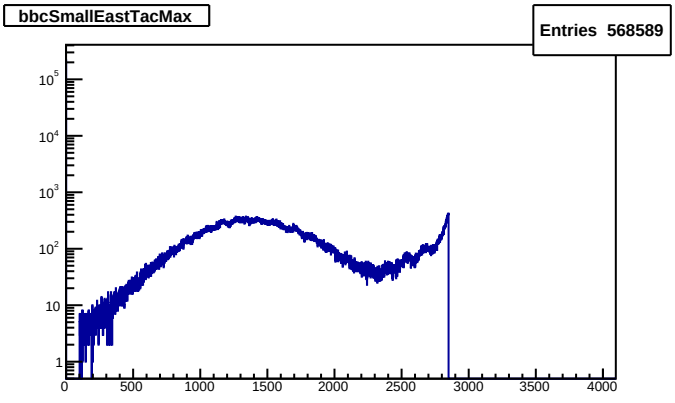
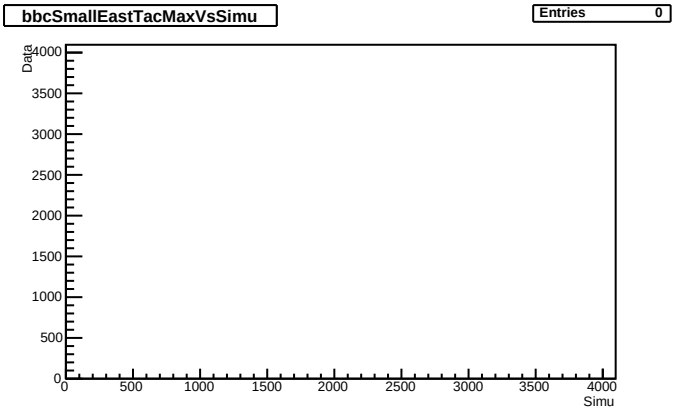
QT Input Channel


bbcSmallEastAdcSum
Entries 568589


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 568589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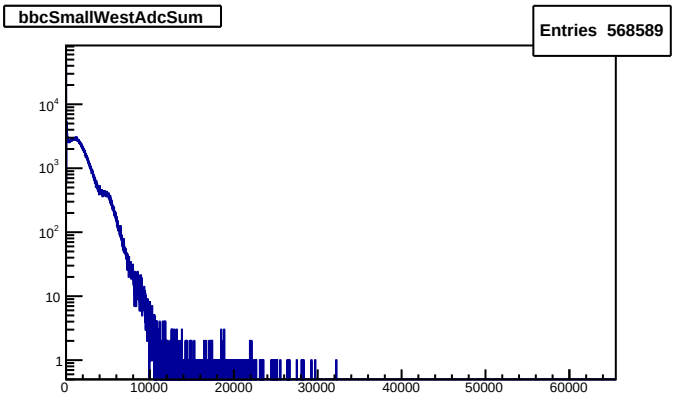
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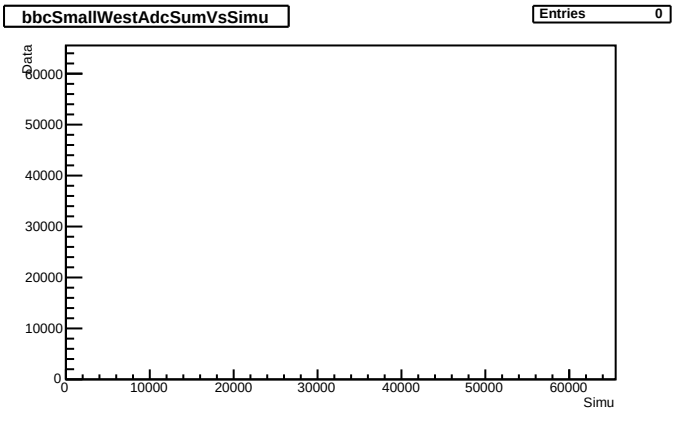
Entries 568589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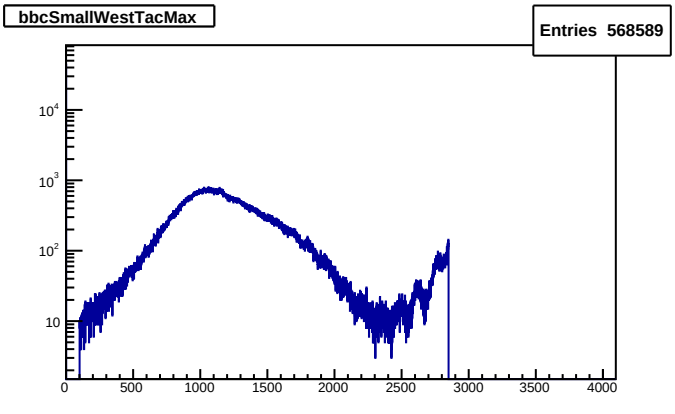
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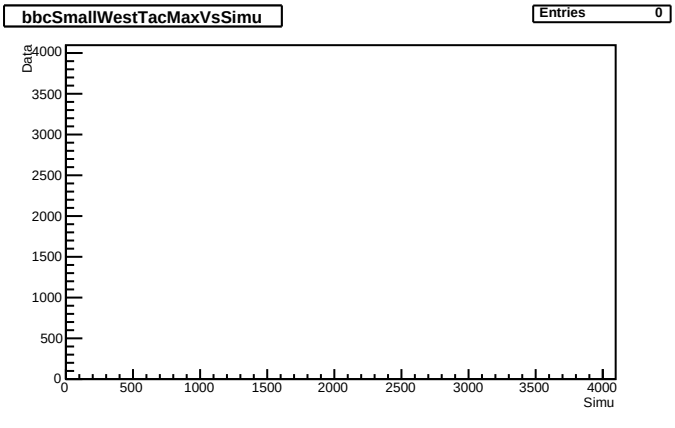
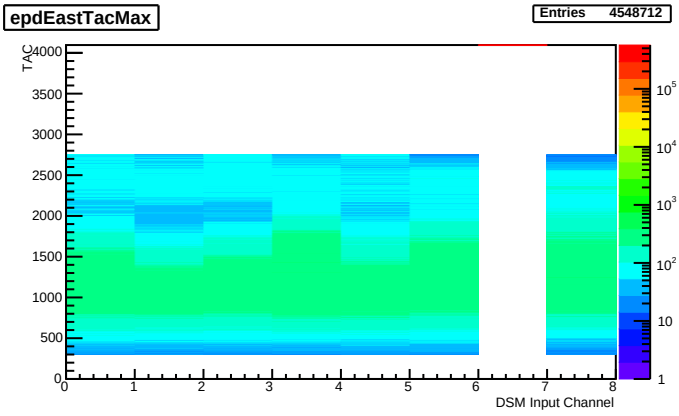
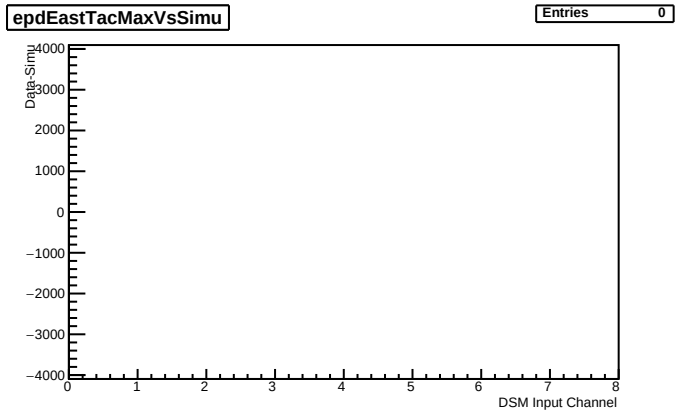
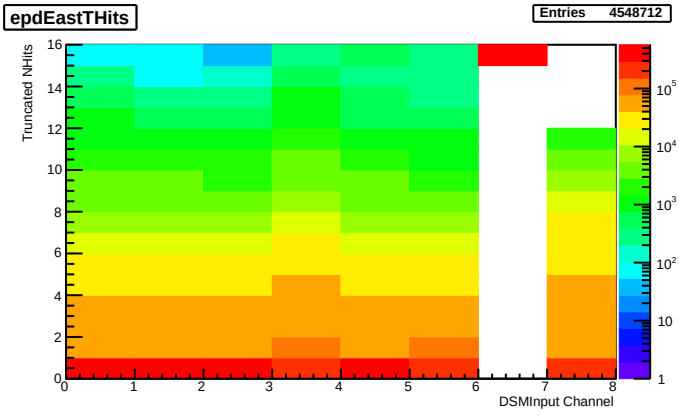
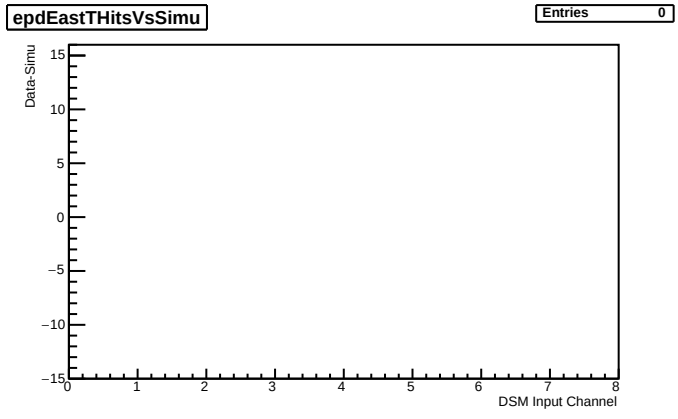
Entries 568589


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 4548712
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 4548712
Truncated NHits
DSMInput Channel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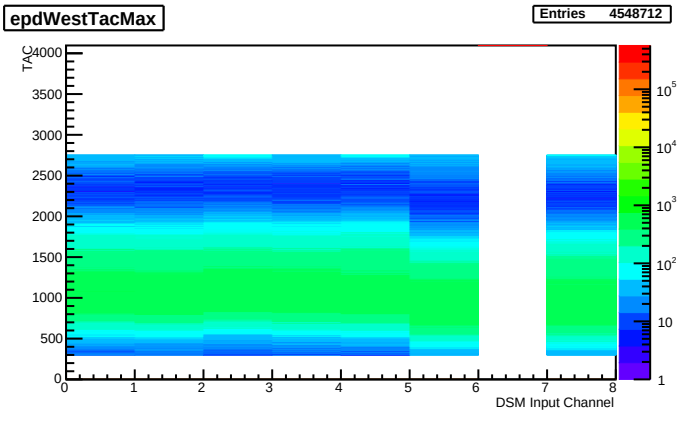
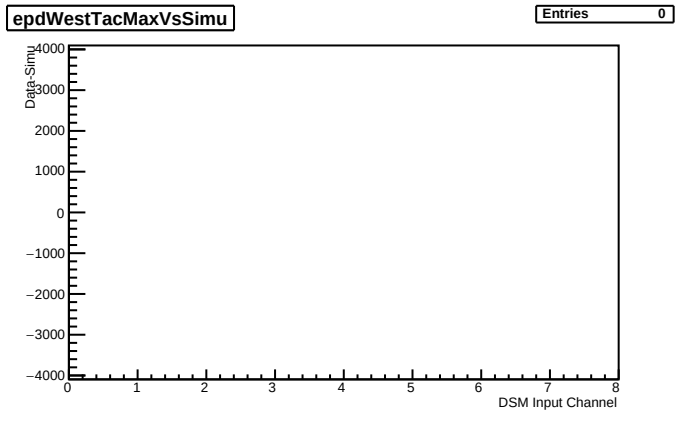
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 4548712
TAC
DSM Input Channel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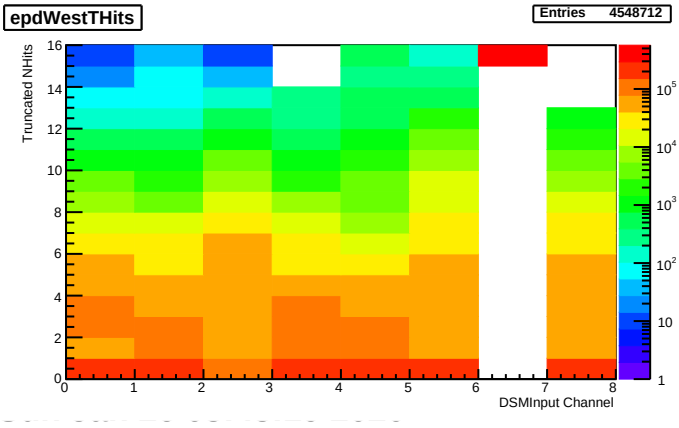
Entries 0
Data-Simu
DSM Input Channel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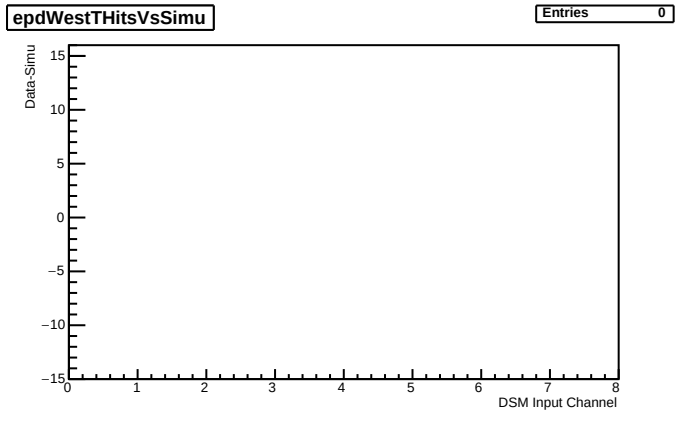
Truncated NHits
DSMInput Channel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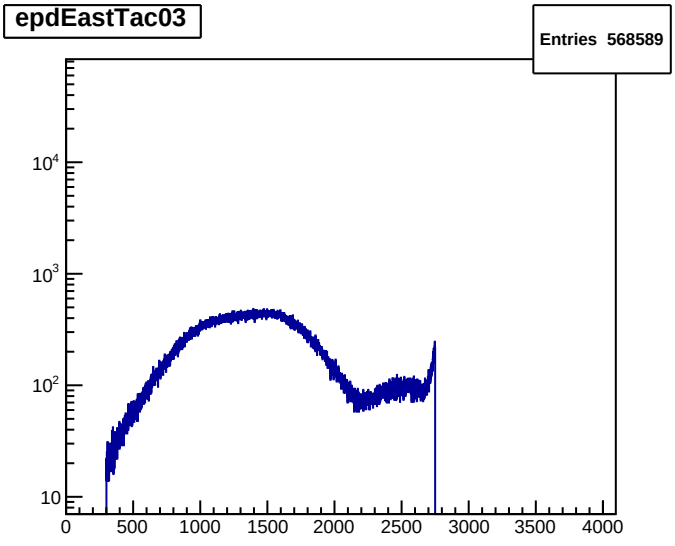
DSM Input Channel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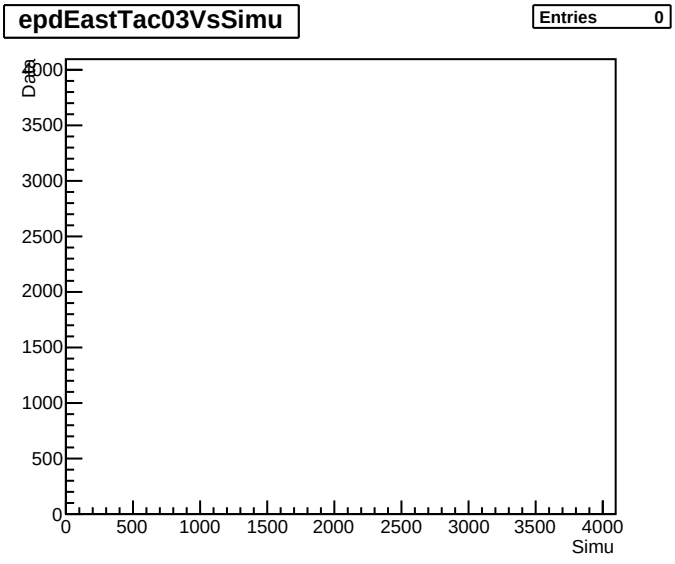
Entries 568589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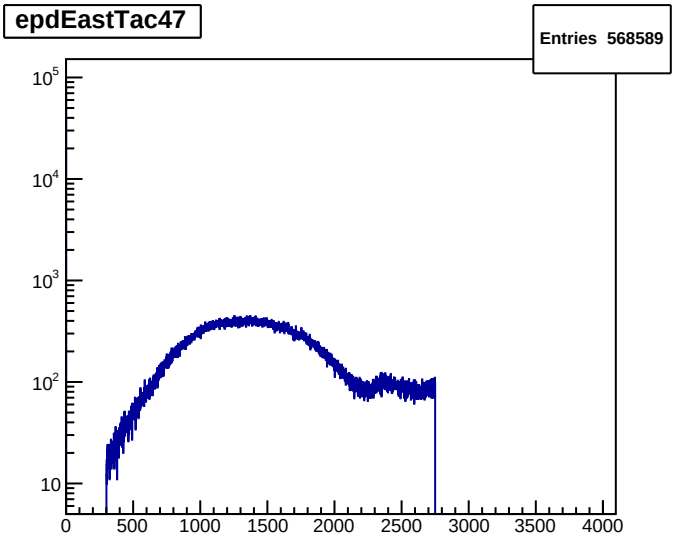
Entries 0
Data
Simu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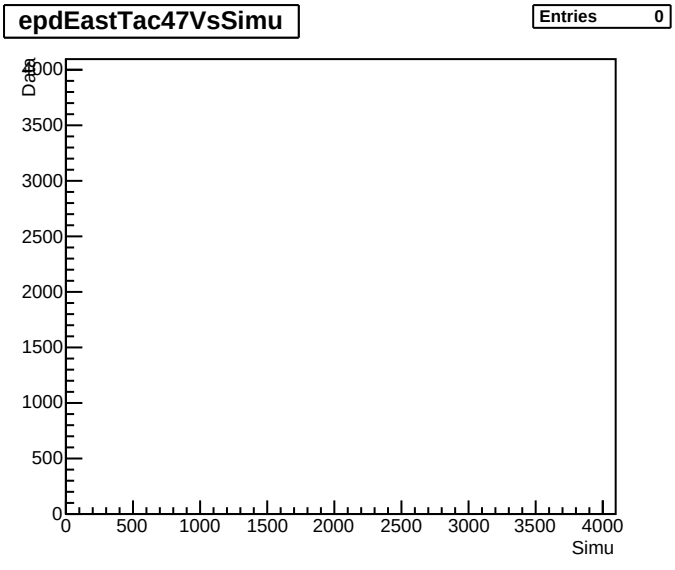
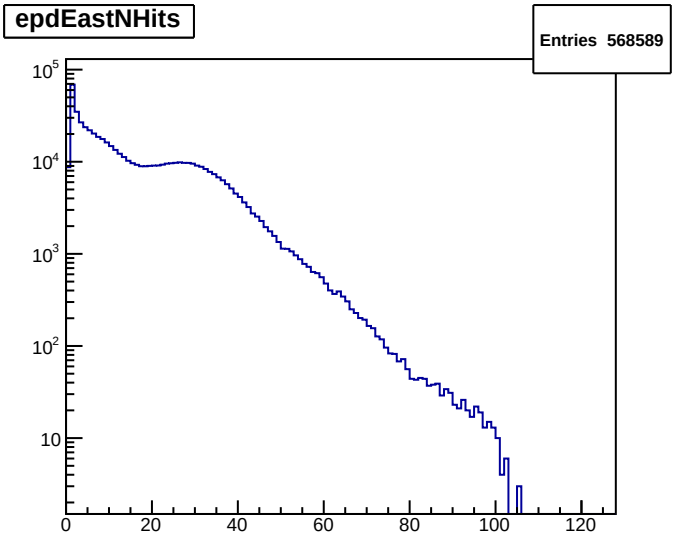

epdEastTac47VsSimu
Entries 0
Data
Simu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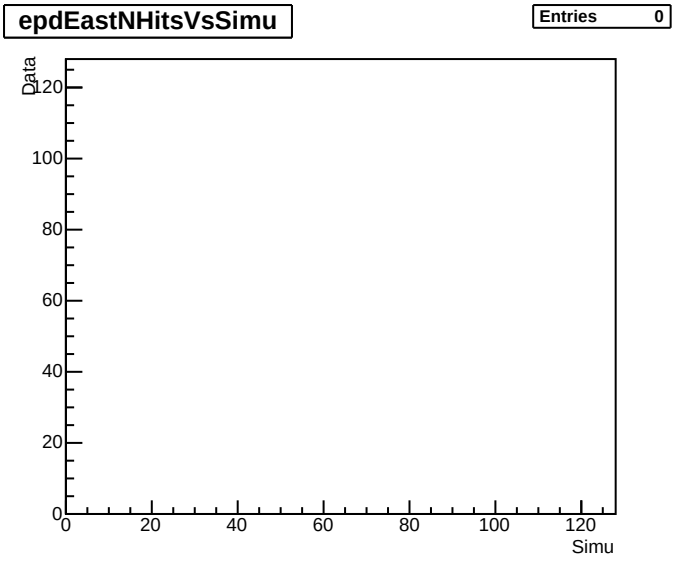
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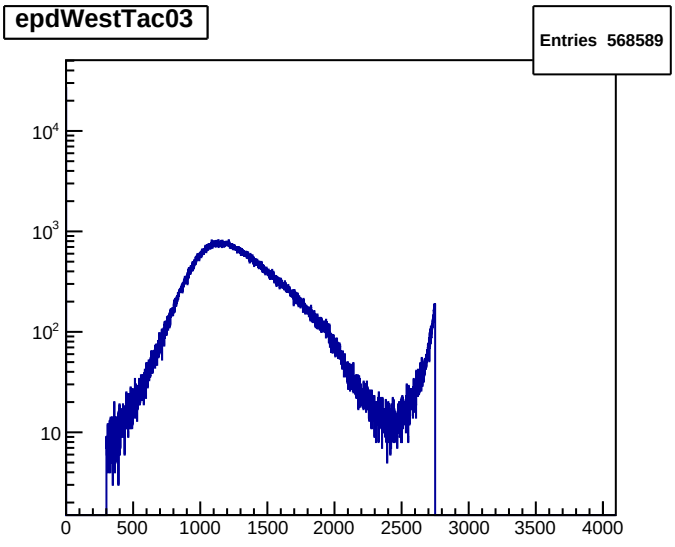
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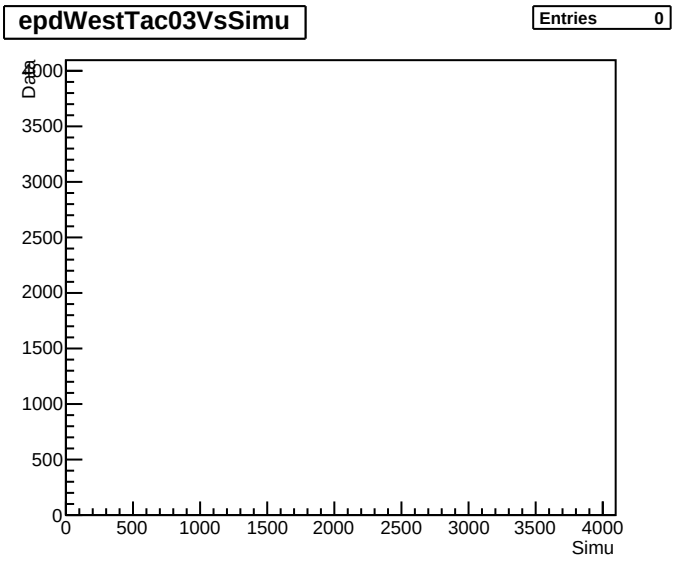
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Entries 0
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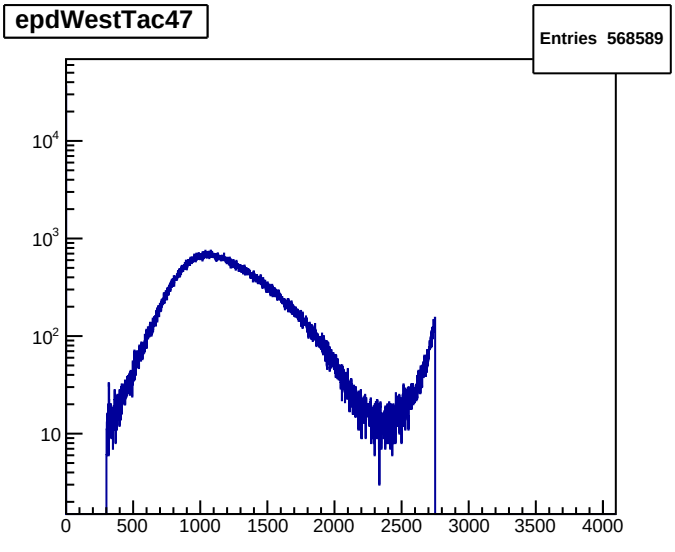
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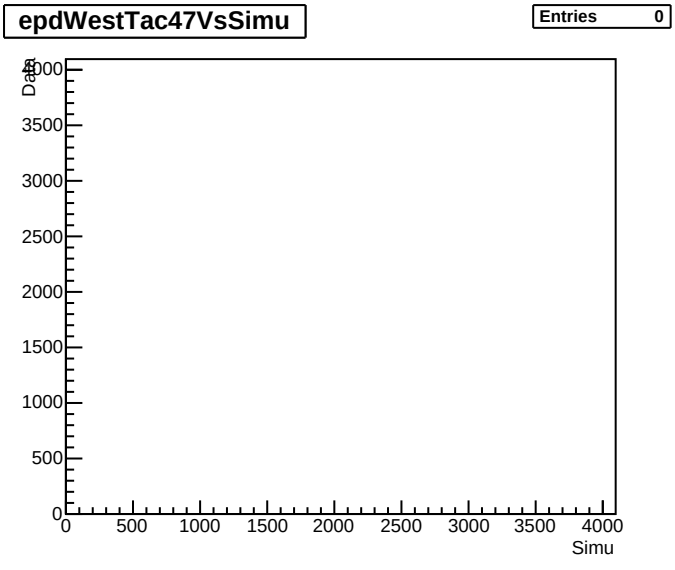
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Entries 0
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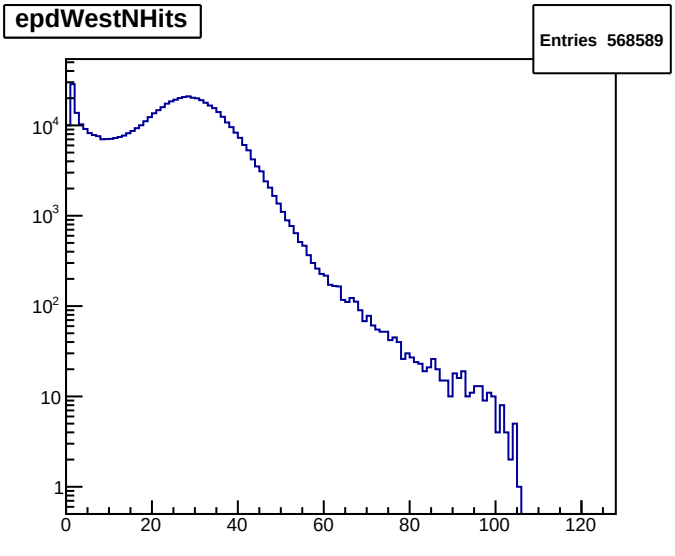
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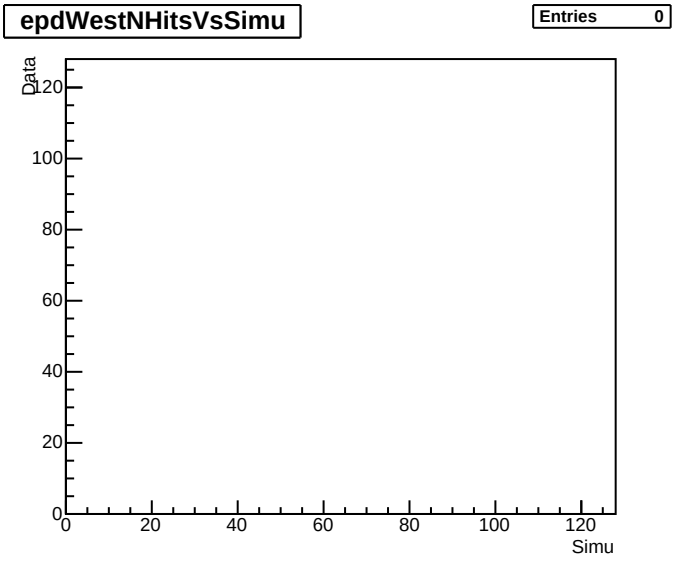
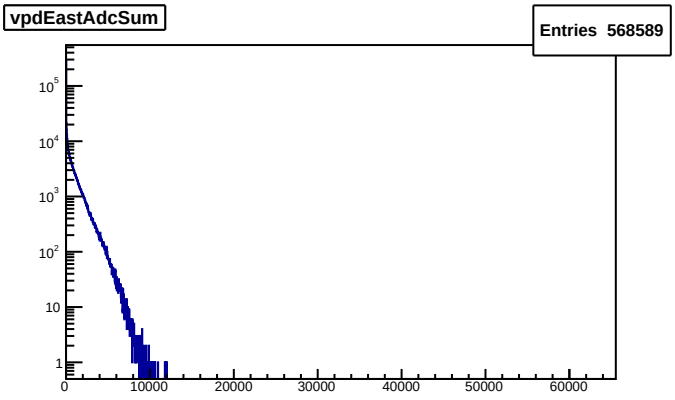
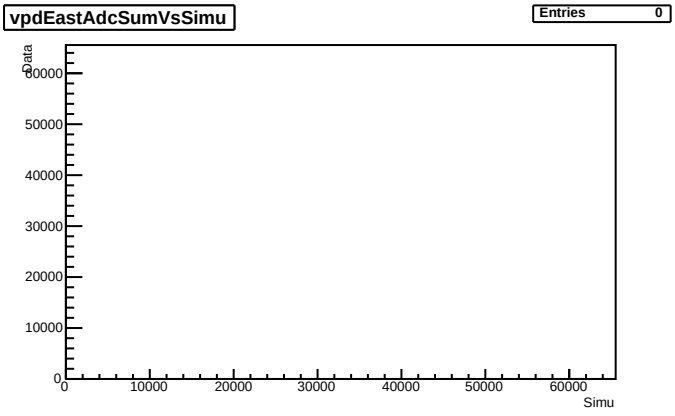
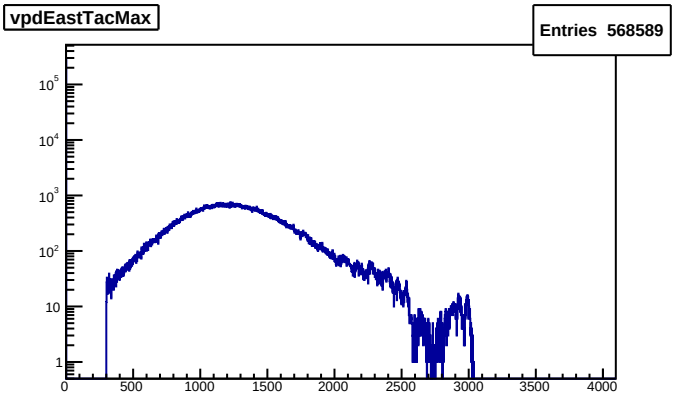
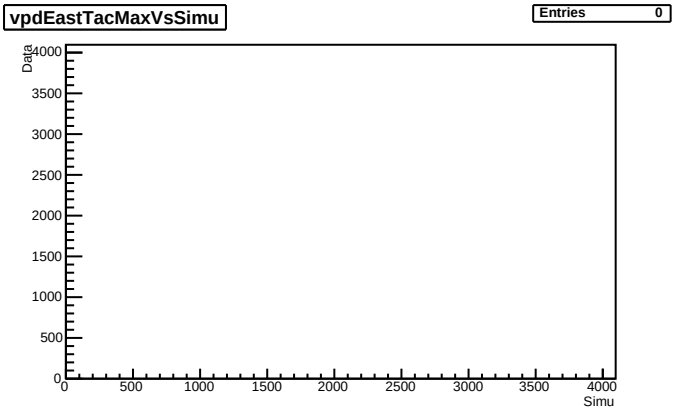
Entries 568589


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 568589


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries 568589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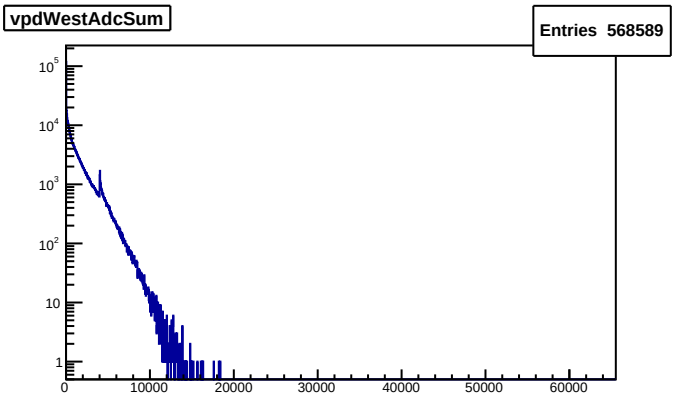
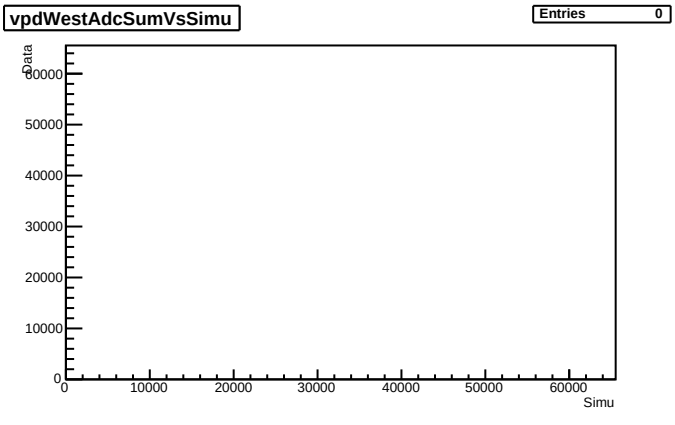
Entries 0
Data
Simu


vpdWestAdcSum
Entries 568589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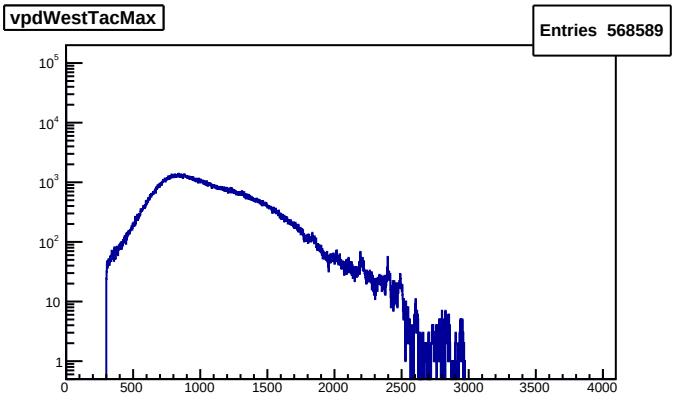
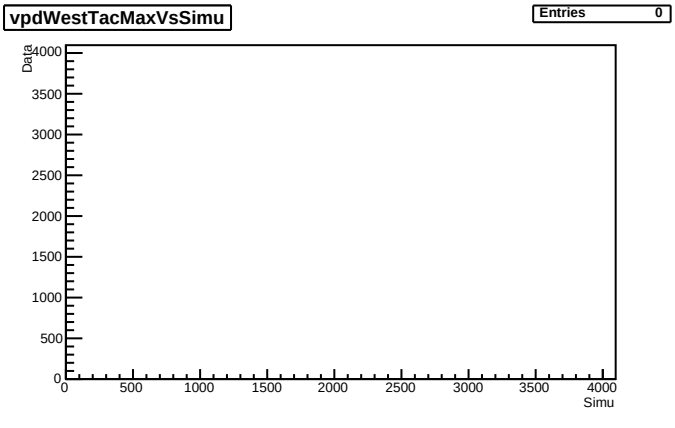
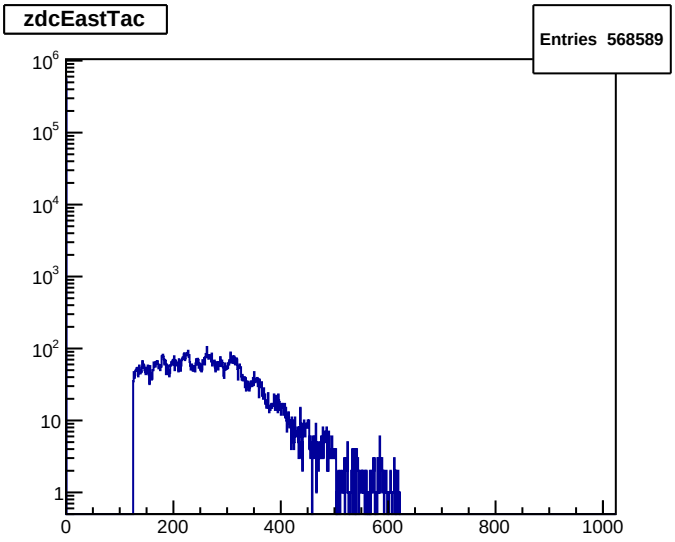
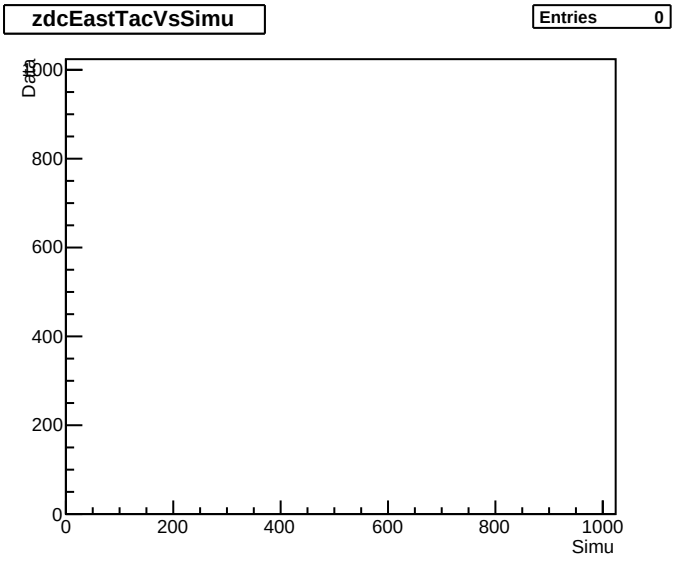
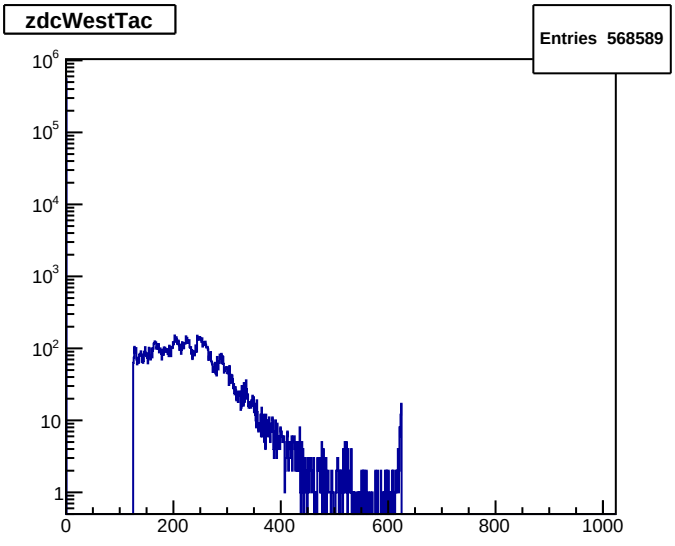
Entries 0
Data
Simu

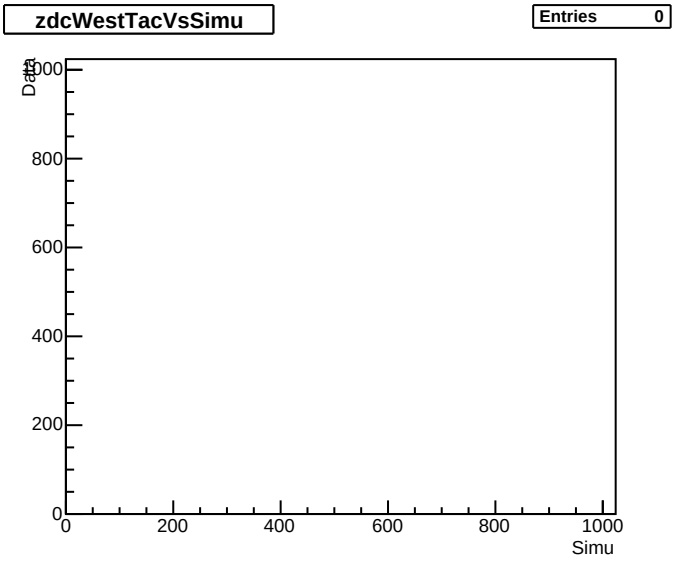

vpdWestTacMax
Entries 568589

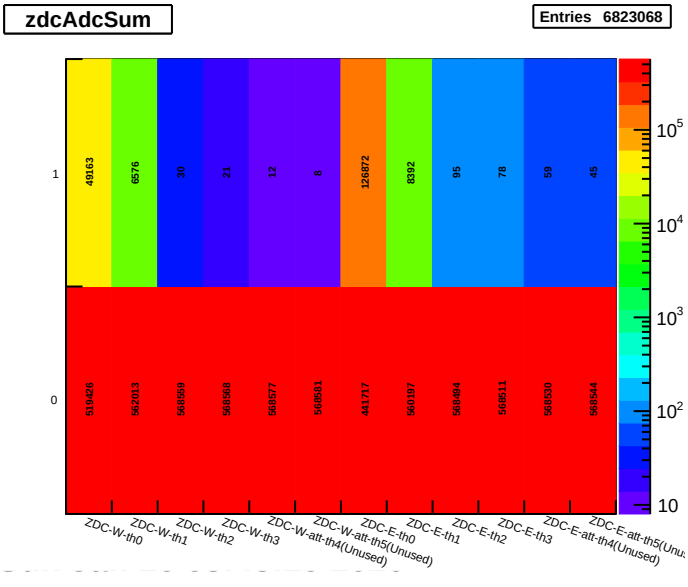

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

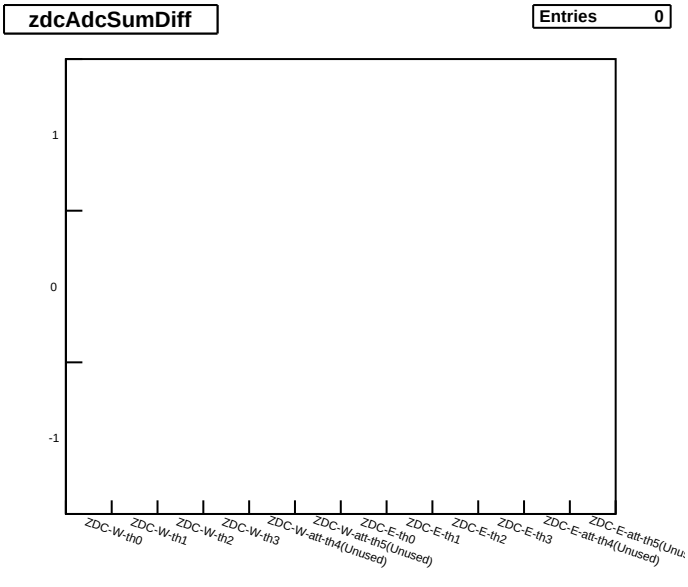

zdcEastTac
Entries 568589


zdcEastTacVsSimu
Entries 0
Data
Simu


zdcWestTac
Entries 568589


zdcWestTacVsSimu
Entries 0
Data
Simu


zdcAdcSum
Entries 6823068
49163
6576
30
21
12
8
126872
8392
95
78
59
45
519426
562013
568559
568568
568577
568581
441717
560197
568494
568511
568530
568544
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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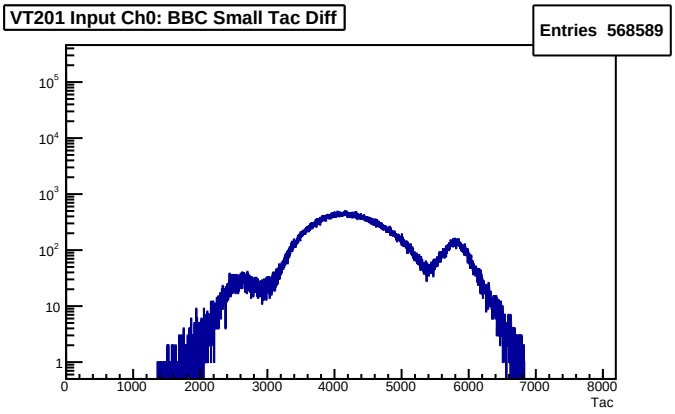
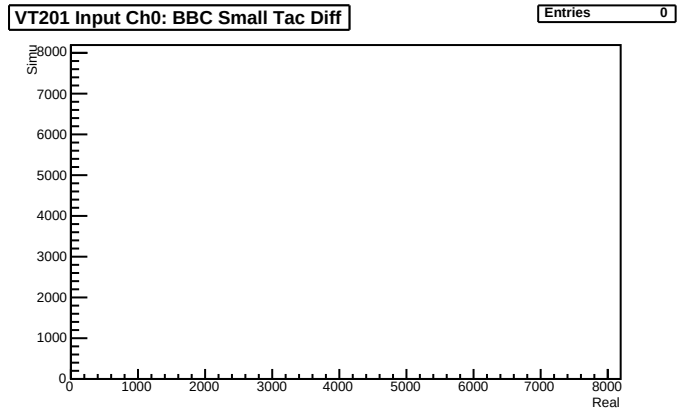
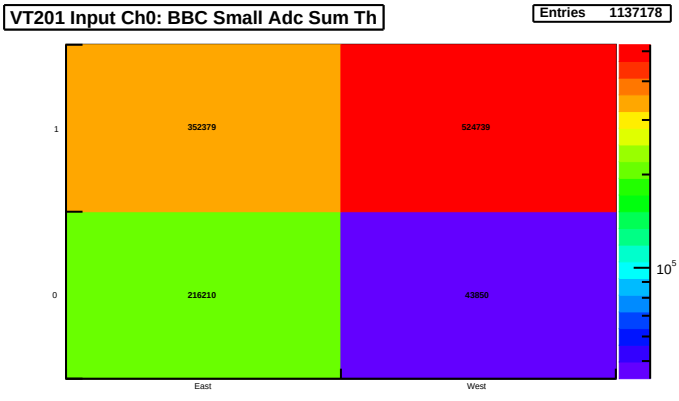
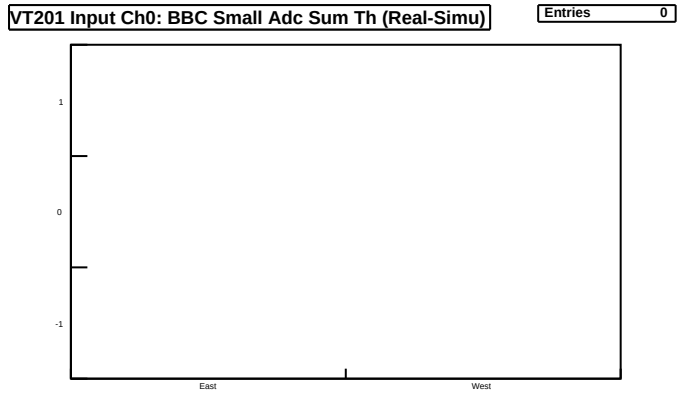
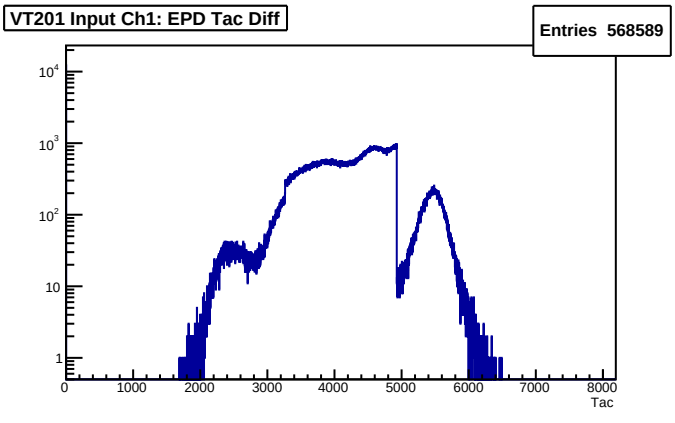
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

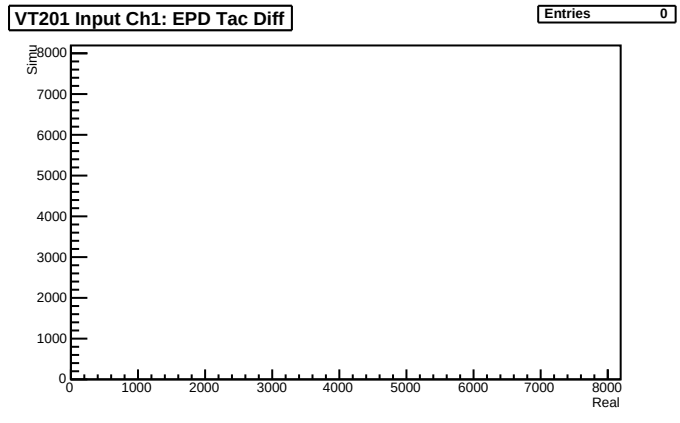

VT201 Input Ch0: BBC Small Tac Diff
Entries 568589
Tac

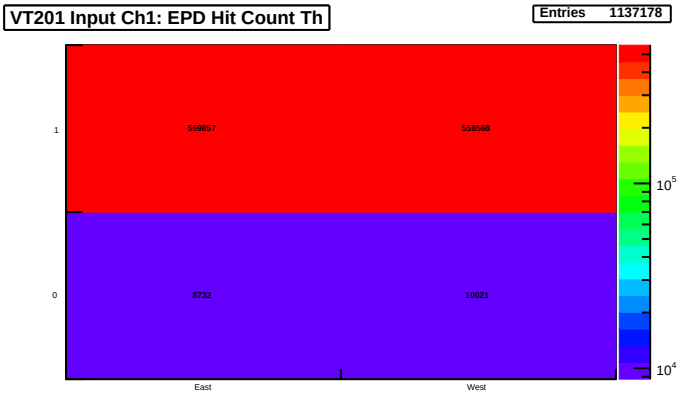

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

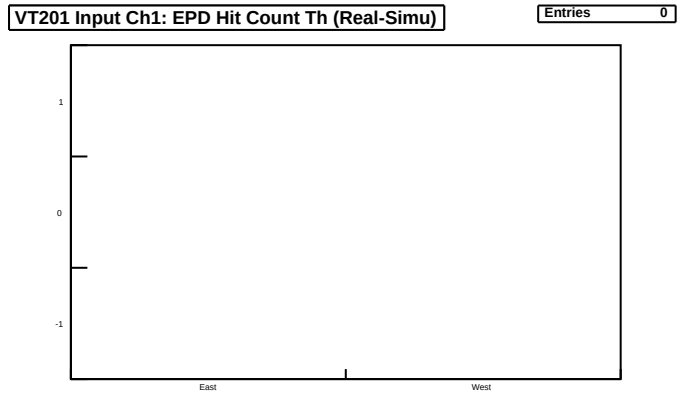

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1137178
352379
524739
216210
43850
East
West

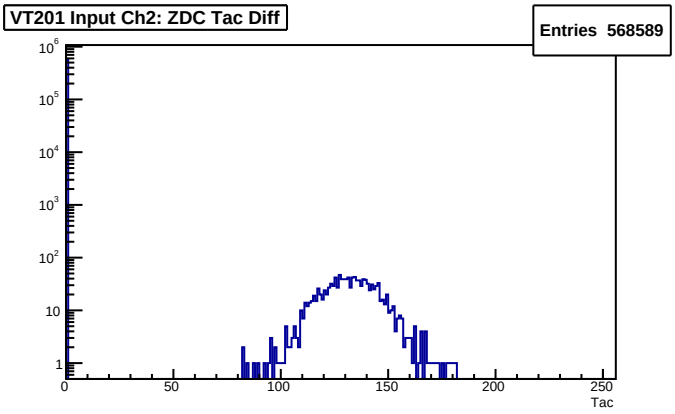

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

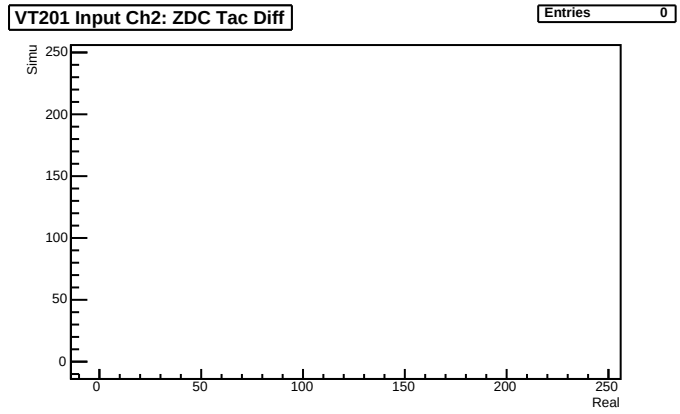

VT201 Input Ch1: EPD Tac Diff
Entries 568589
Tac

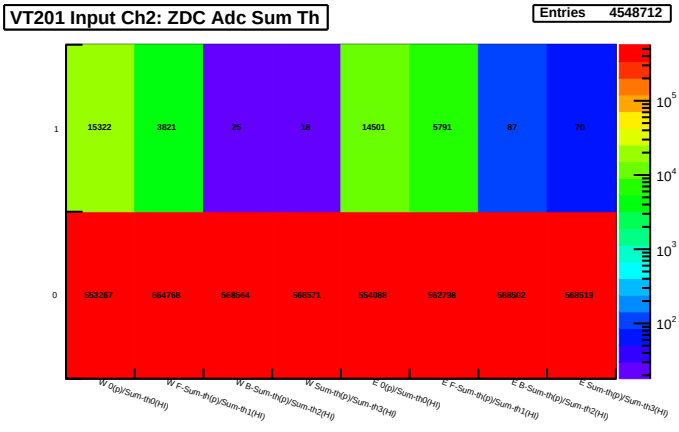

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

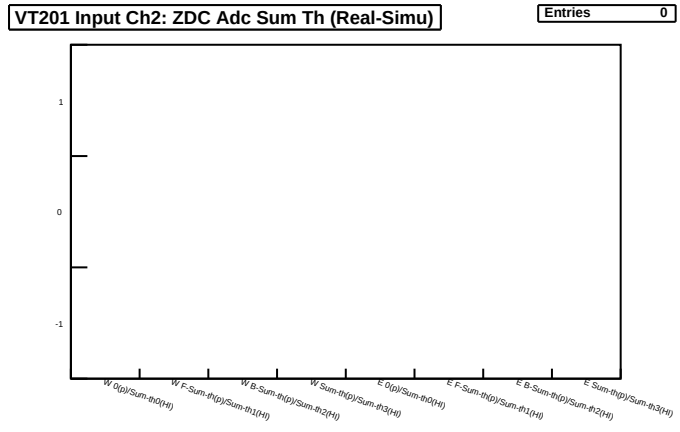

VT201 Input Ch1: EPD Hit Count Th
Entries 1137178
559857
558568
8732
10021
East
West

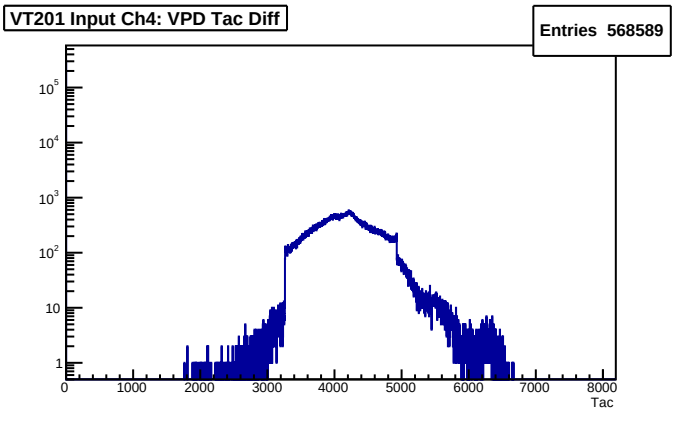

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

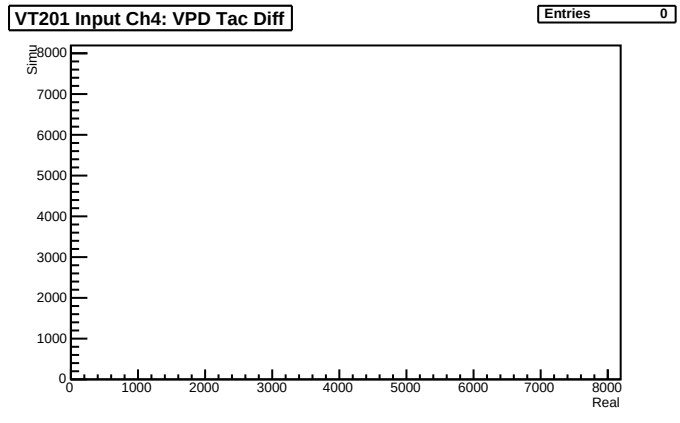

VT201 Input Ch2: ZDC Tac Diff
Entries 568589
Tac

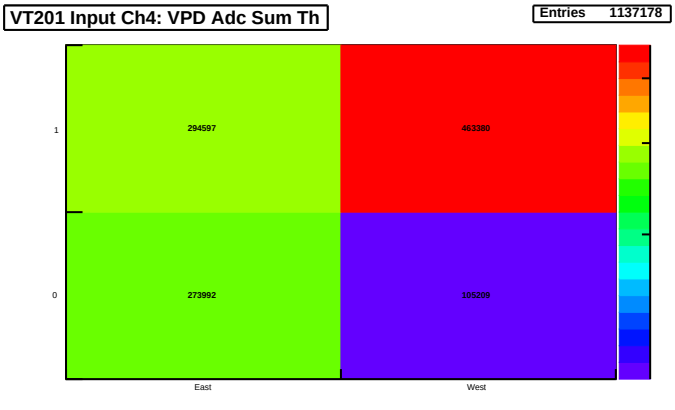

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

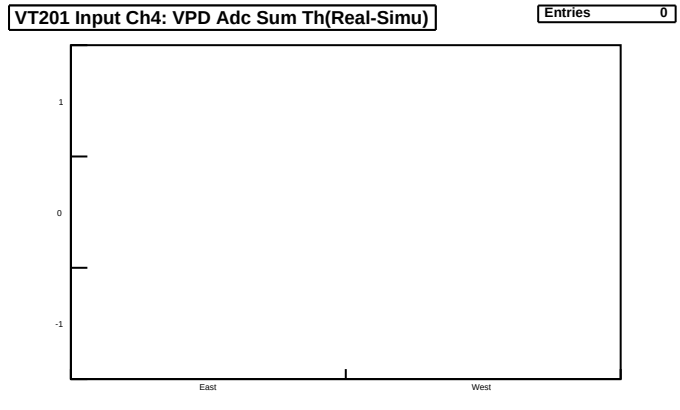

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4548712
15322
3821
25
18
14501
5791
87
70
553267
564768
568564
568571
554088
562798
568502
568519
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

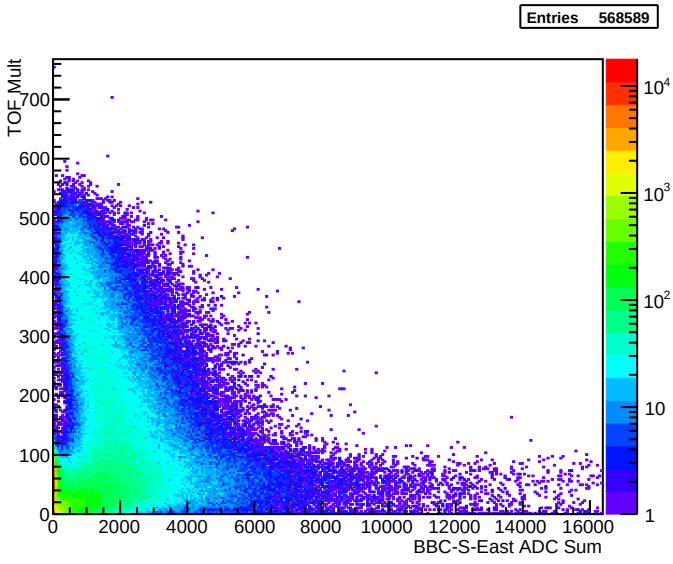

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

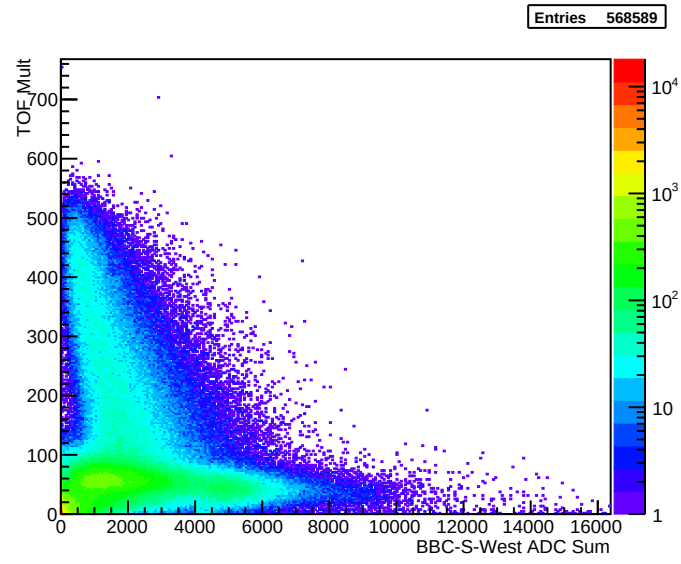

VT201 Input Ch4: VPD Tac Diff
Entries 568589
Tac

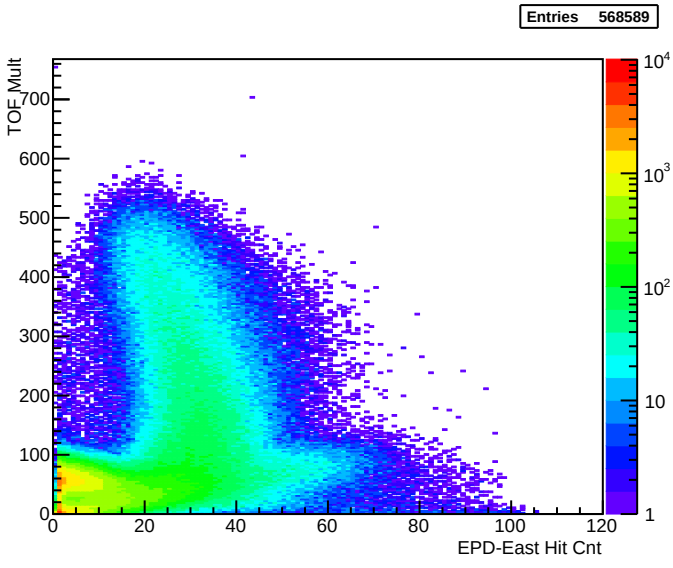

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

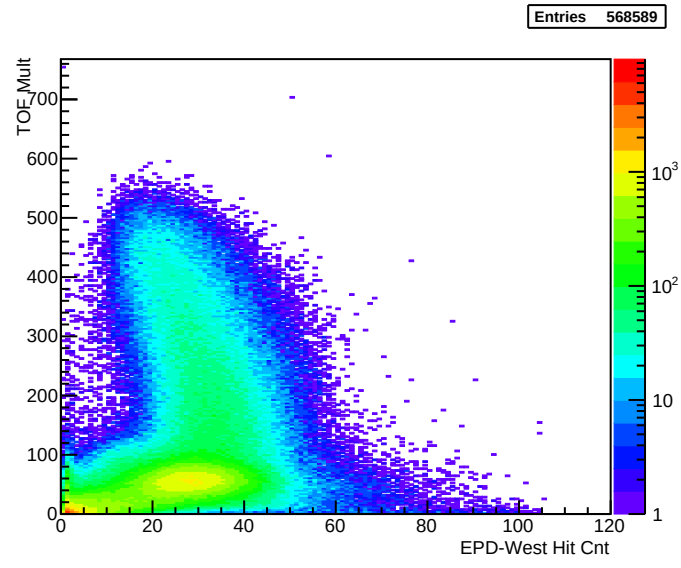

VT201 Input Ch4: VPD Adc Sum Th
Entries 1137178
294597
463380
273992
105209
East
West

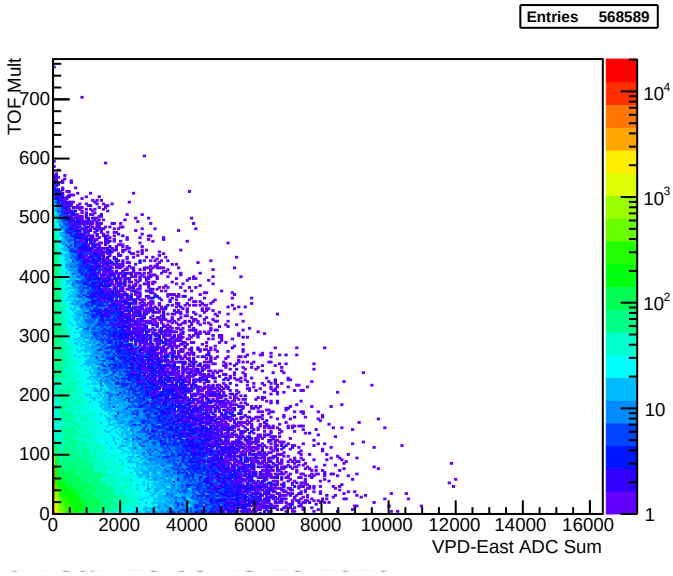

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

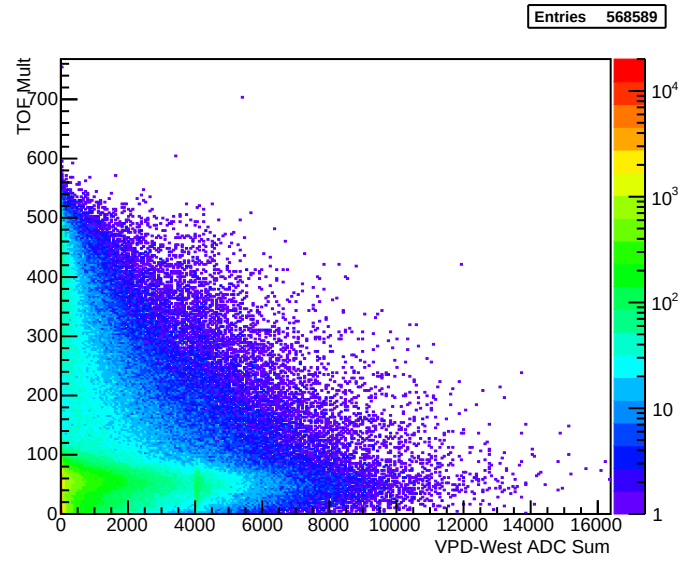

Entries 568589
TOF_Mult
BBC-S-East ADC Sum

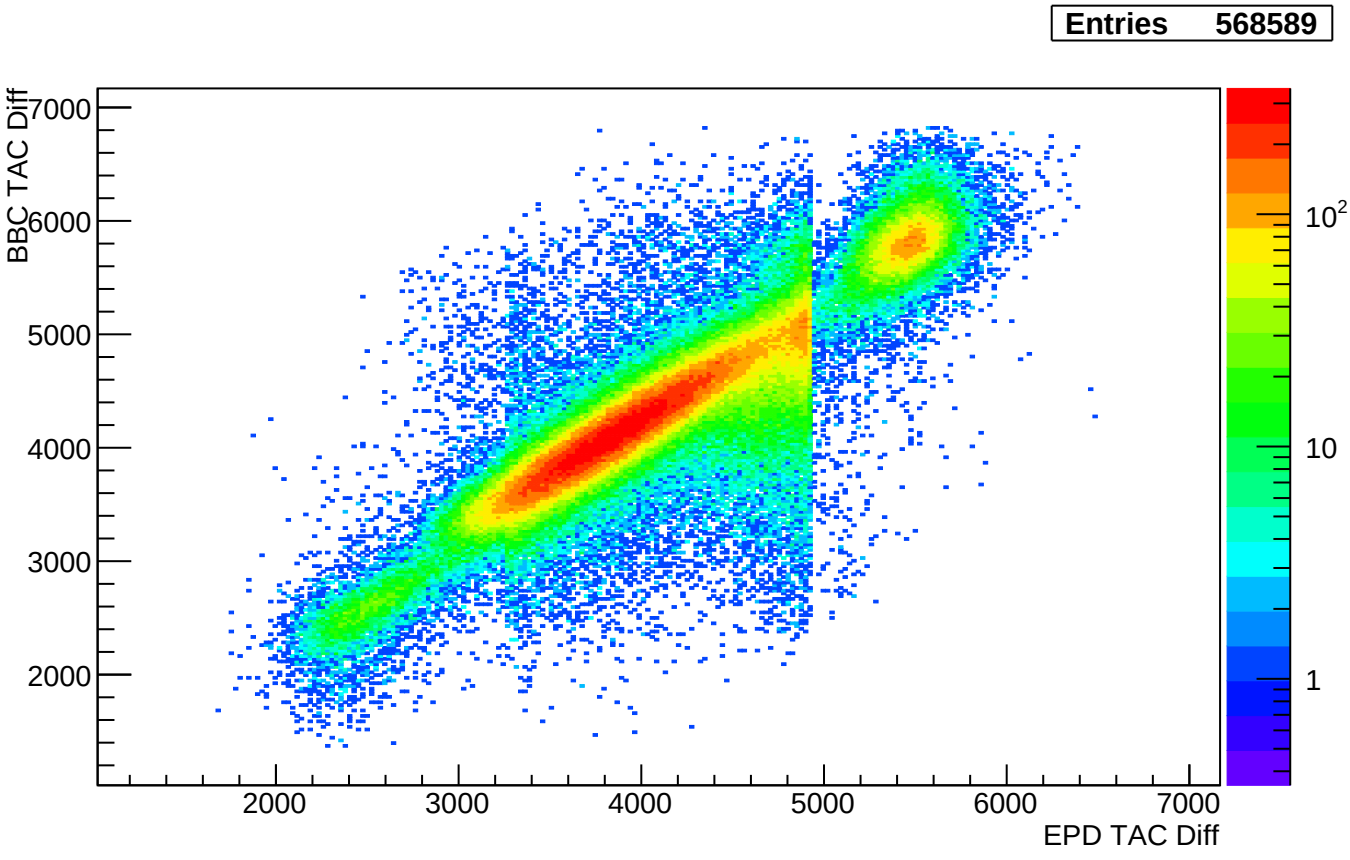

Entries 568589
TOF_Mult
BBC-S-West ADC Sum

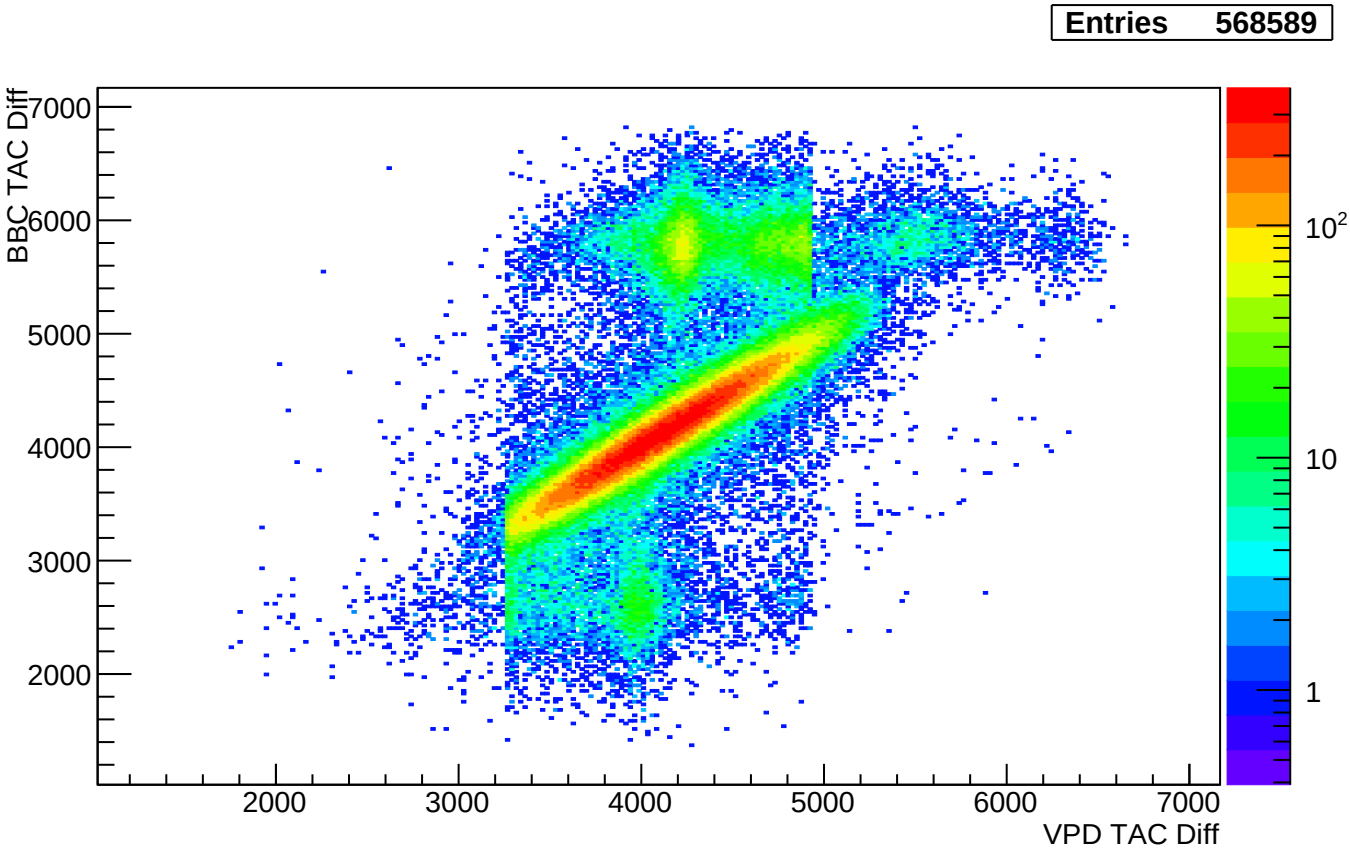

Entries 568589
TOF_Mult
EPD-East Hit Cnt

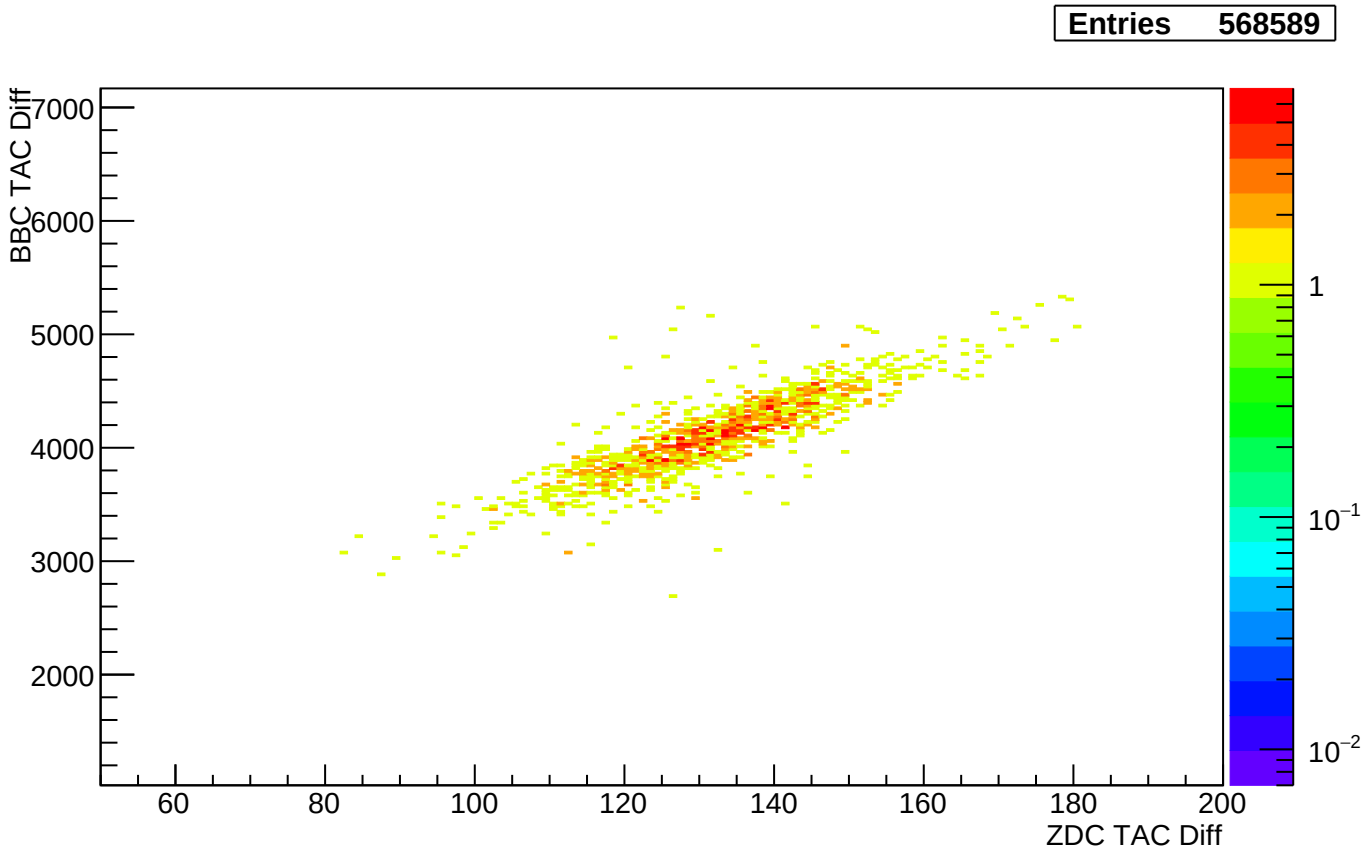

Entries 568589
TOF_Mult
EPD-West Hit Cnt

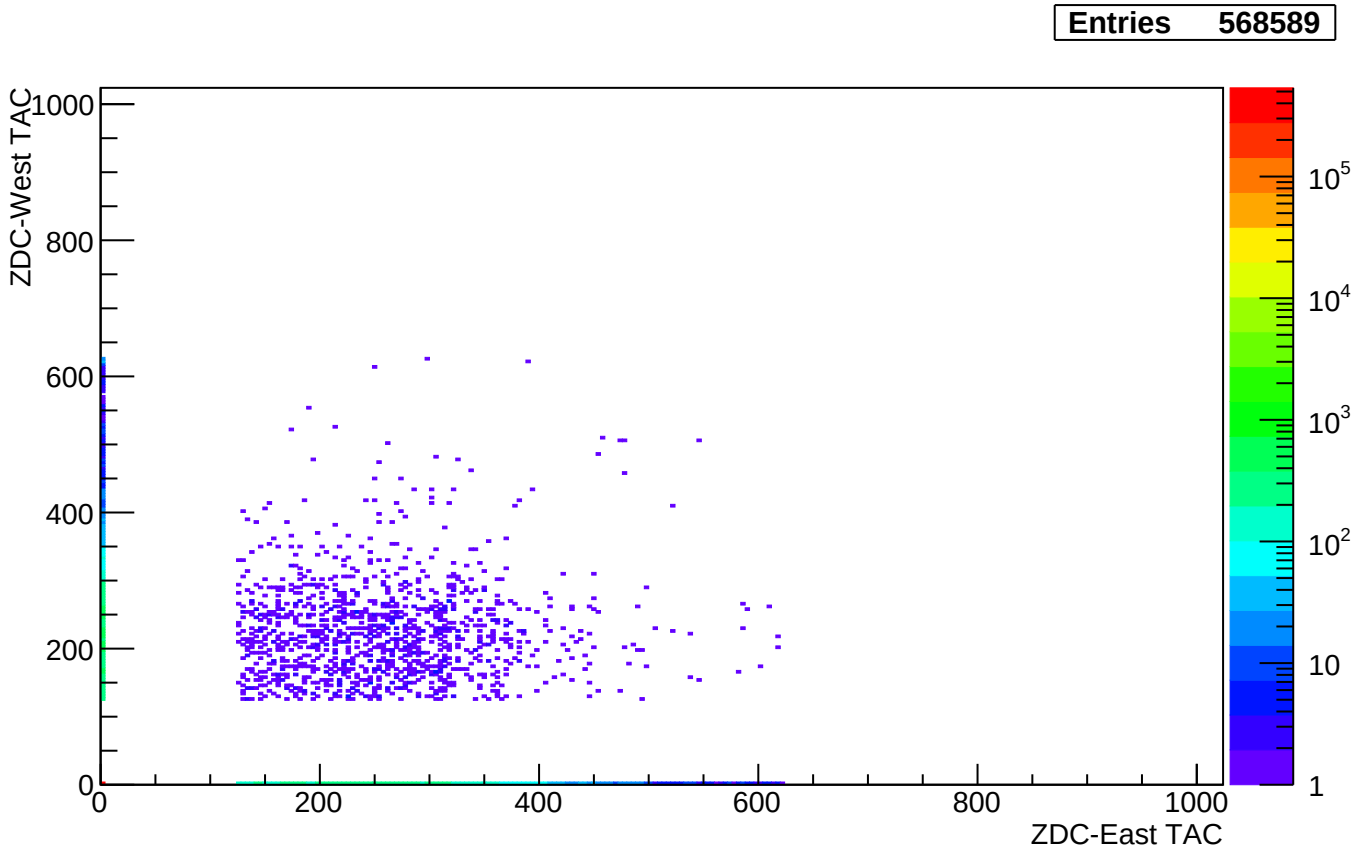

Entries 568589
TOF_Mult
VPD-East ADC Sum

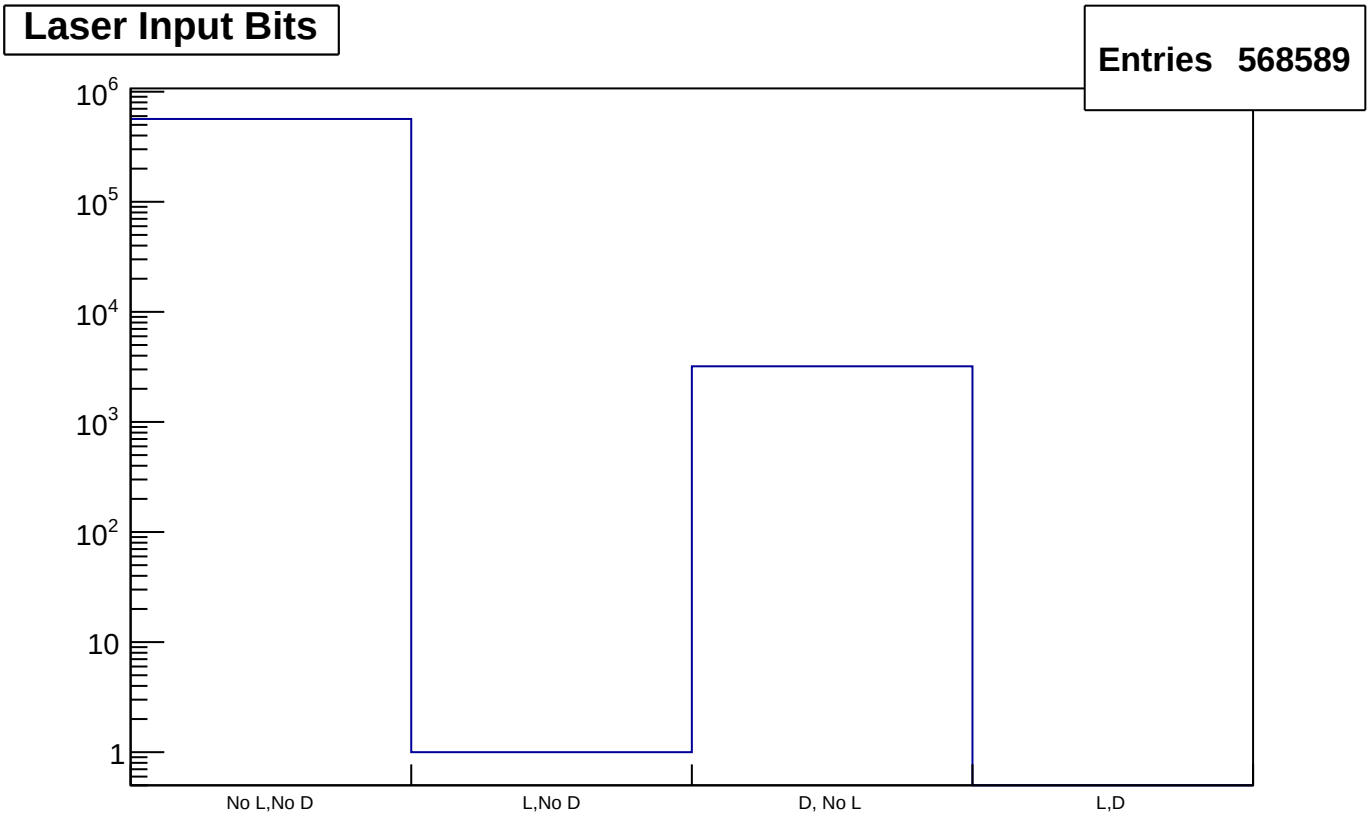

Entries 568589
TOF_Mult
VPD-West ADC Sum

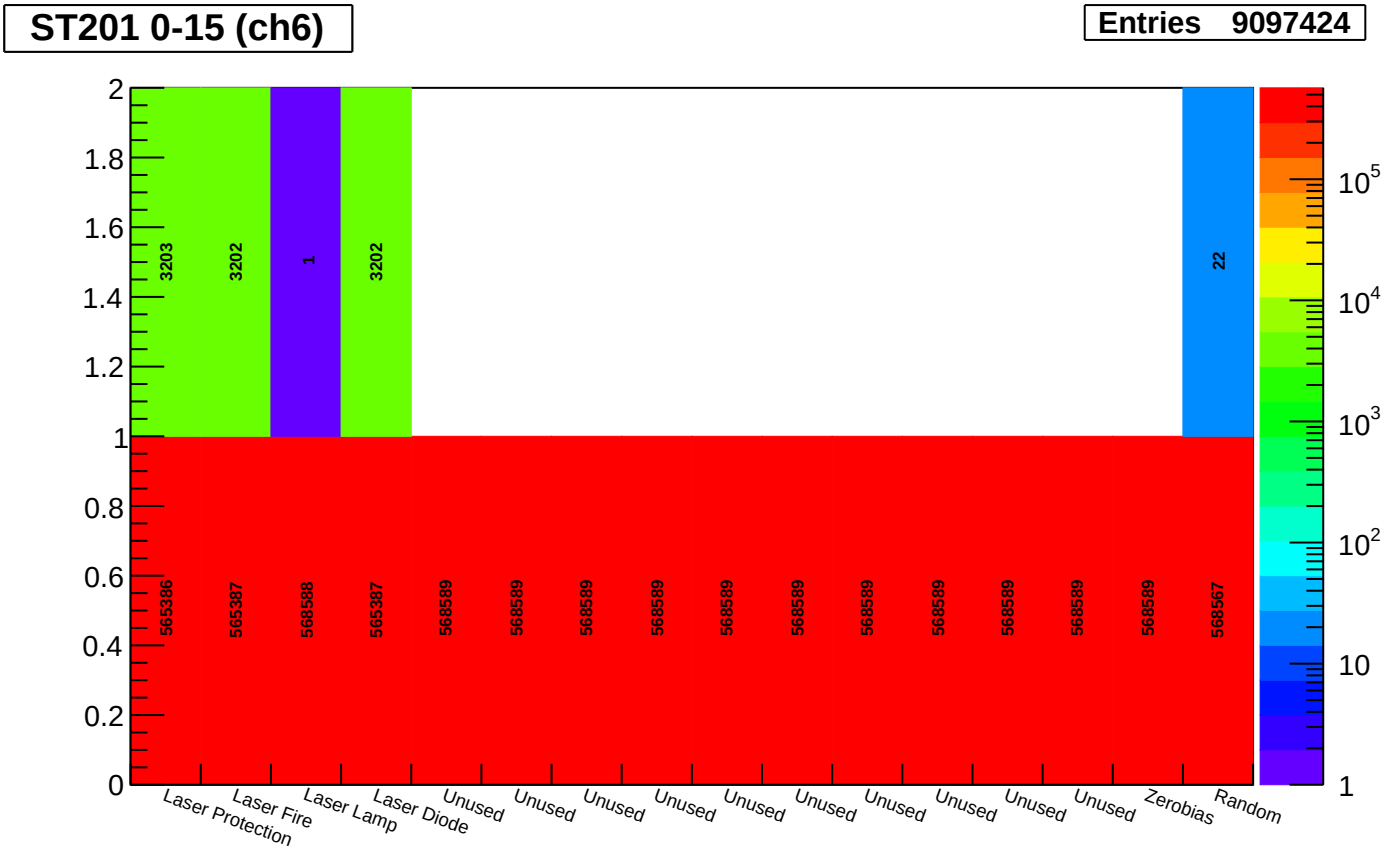

Entries 568589
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

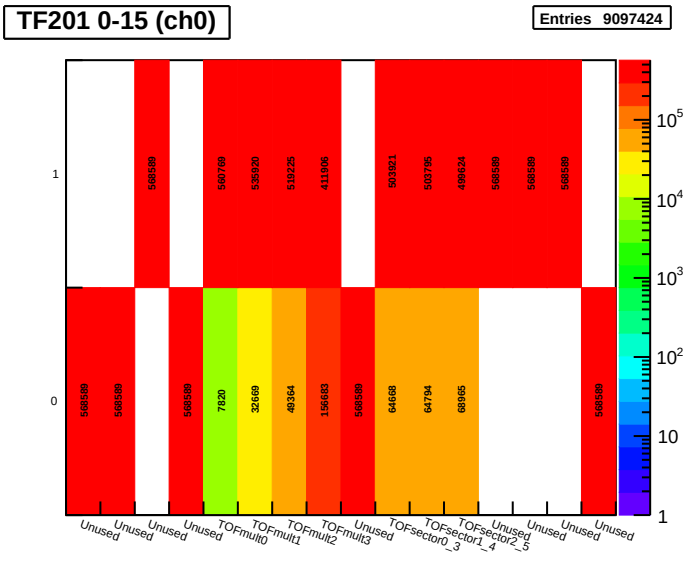

Entries 568589
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

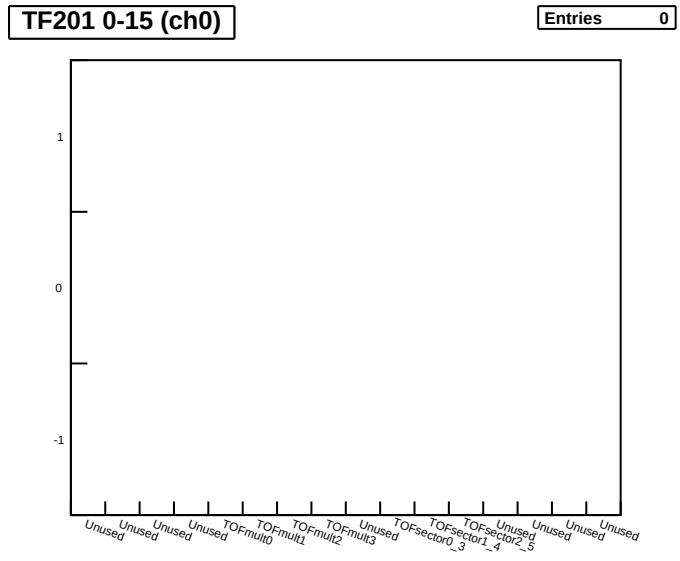

Entries 568589
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

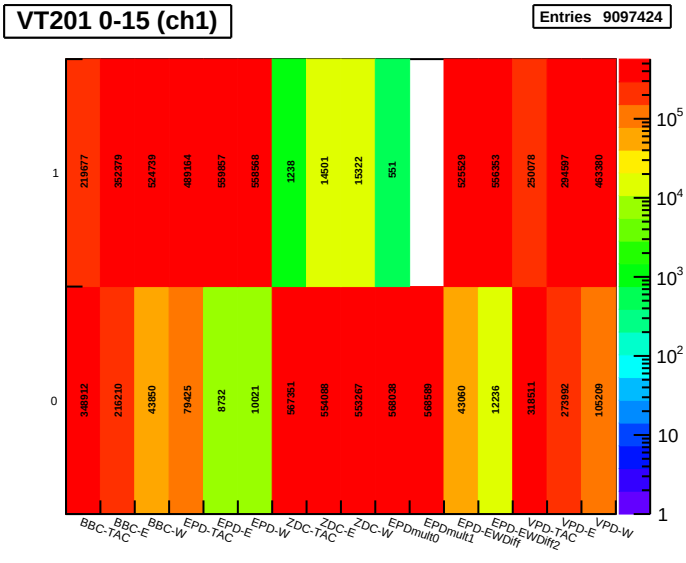

Entries 568589
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

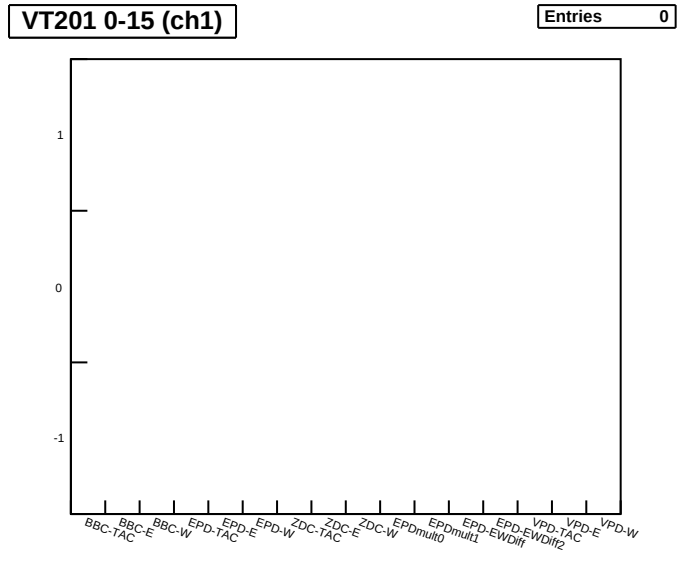

Laser Input Bits
Entries 568589
10^6
10^5
10^4
10^3
10^2
10
1
No L,No D
L,No D
D, No L
L,D

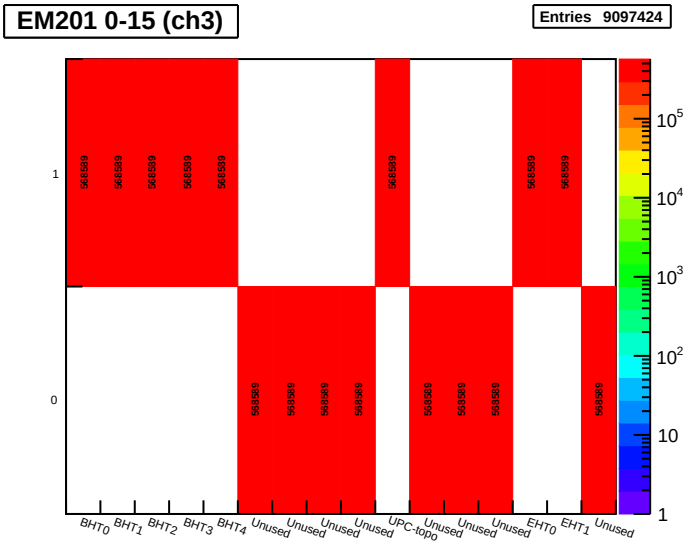

ST201 0-15 (ch6)
Entries 9097424
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3203
3202
1
3202
22
565386
565387
568588
565387
568589
568589
568589
568589
568589
568589
568589
568589
568589
568589
568589
568567
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

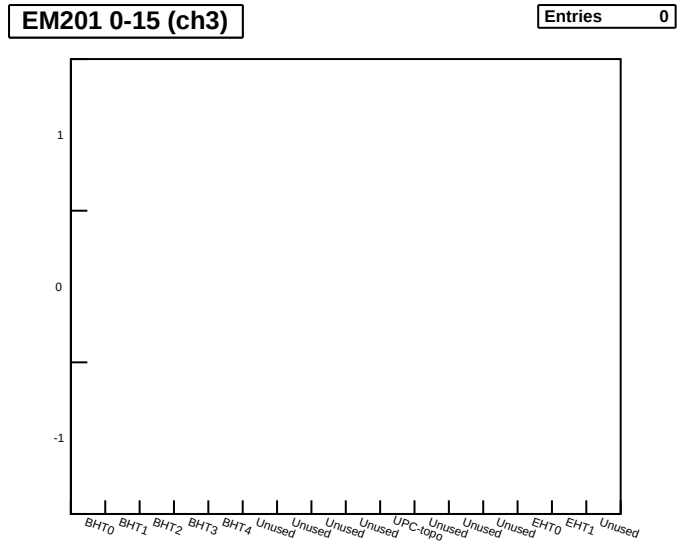

TF201 0-15 (ch0)
Entries 9097424
1
0
568589 568589 568589 568589 568589 560769 535920 519225 411906 503921 503795 499624 568589 568589 568589
568589 568589 568589 7820 32669 49364 156683 568589 64668 64794 68965 568589
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
1 10 10^2 10^3 10^4 10^5


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


VT201 0-15 (ch1)
Entries 9097424
1
0
219677 352379 524739 489164 559857 558558 1238 14601 15322 551 525529 556353 250078 294997 463380
348912 216210 43850 79425 8732 10021 567351 554088 553267 568038 568589 43060 12236 318511 273992 106209
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 9097424
1
0
568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589 568589
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused
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 Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused