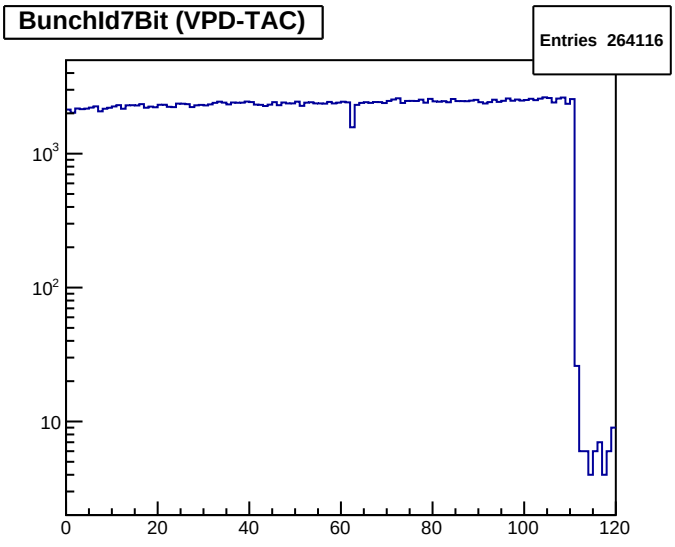
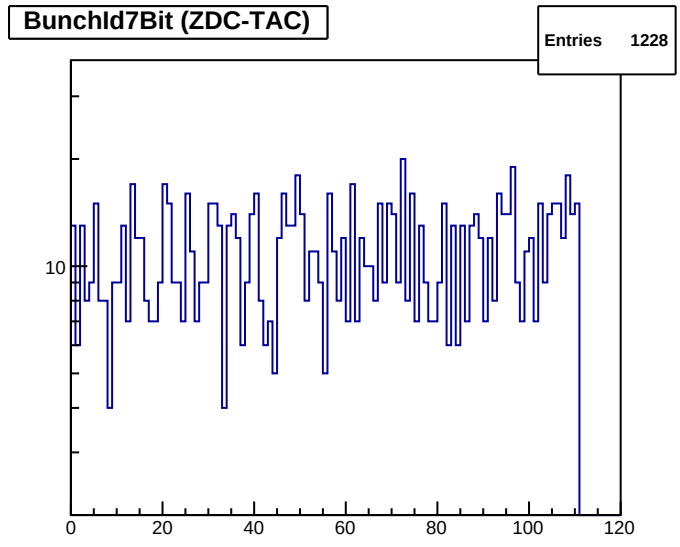
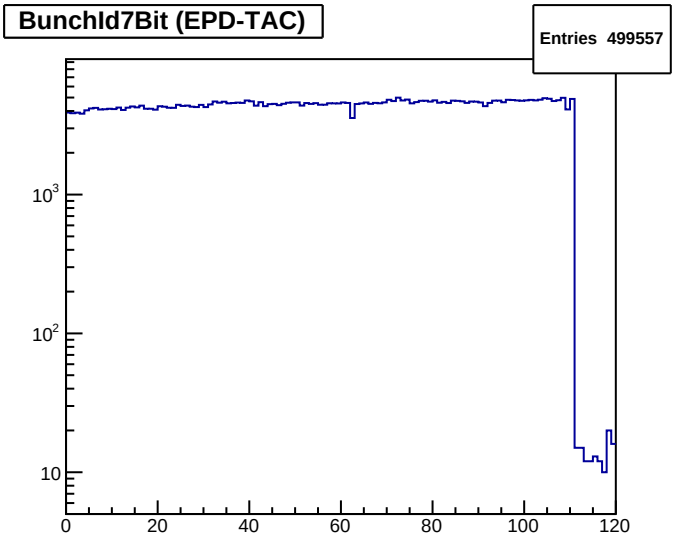
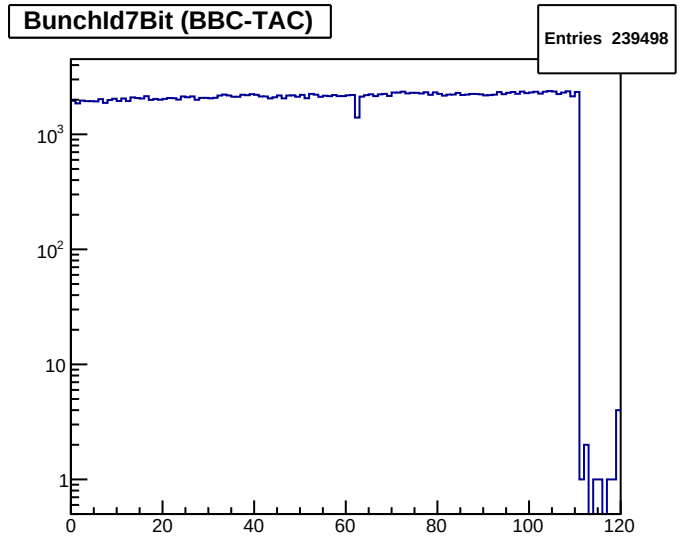
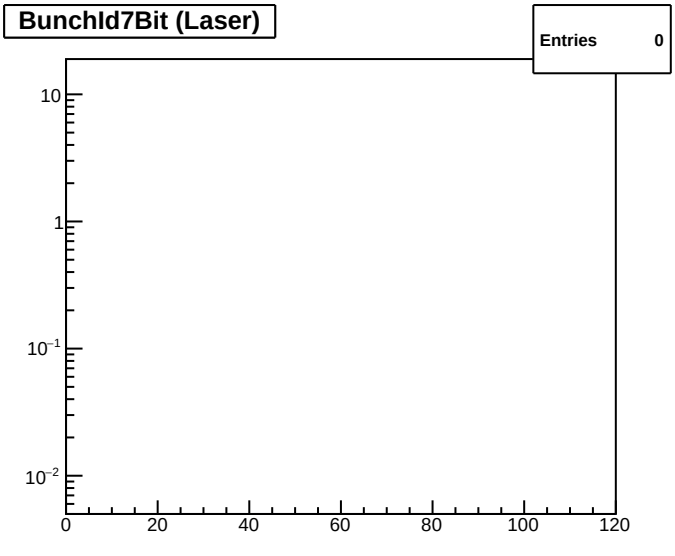
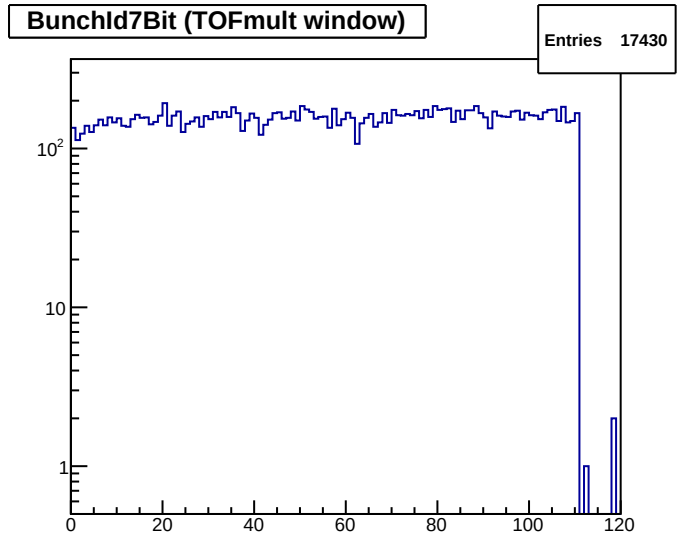

BunchId7Bit (VPD-TAC)
Entries 264116
10^3
10^2
10
0 20 40 60 80 100 120

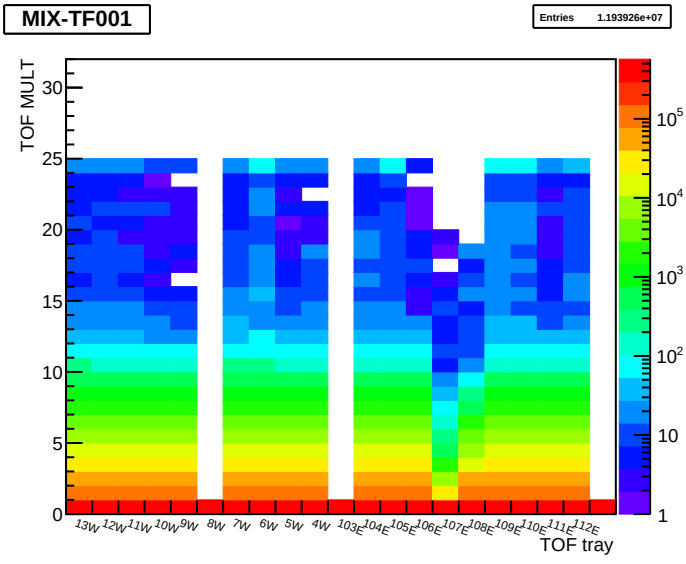

BunchId7Bit (ZDC-TAC)
Entries 1228
10
0 20 40 60 80 100 120

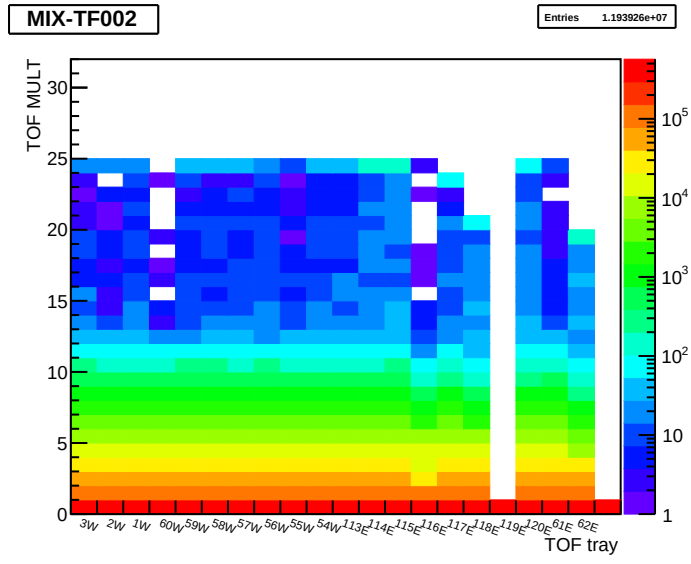

BunchId7Bit (EPD-TAC)
Entries 499557
10^3
10^2
10
0 20 40 60 80 100 120

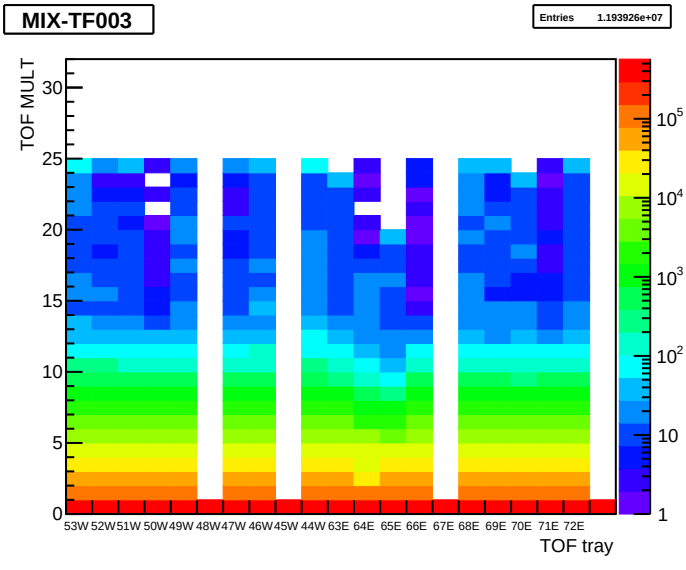

BunchId7Bit (BBC-TAC)
Entries 239498
10^3
10^2
10
1
0 20 40 60 80 100 120

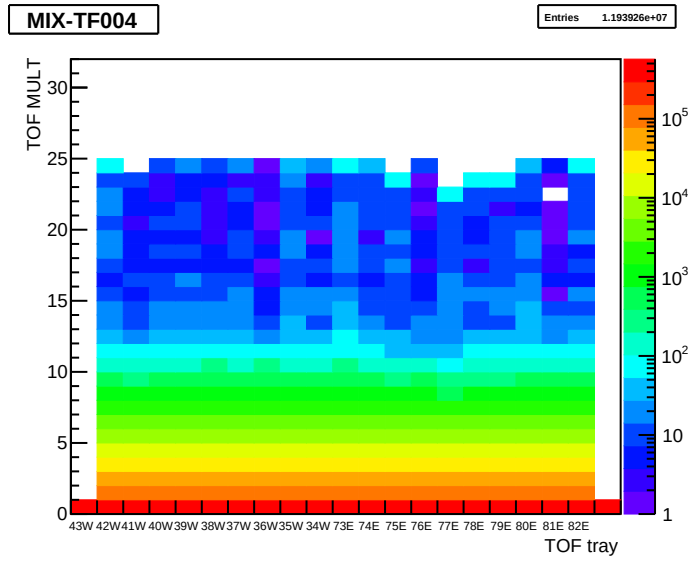

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

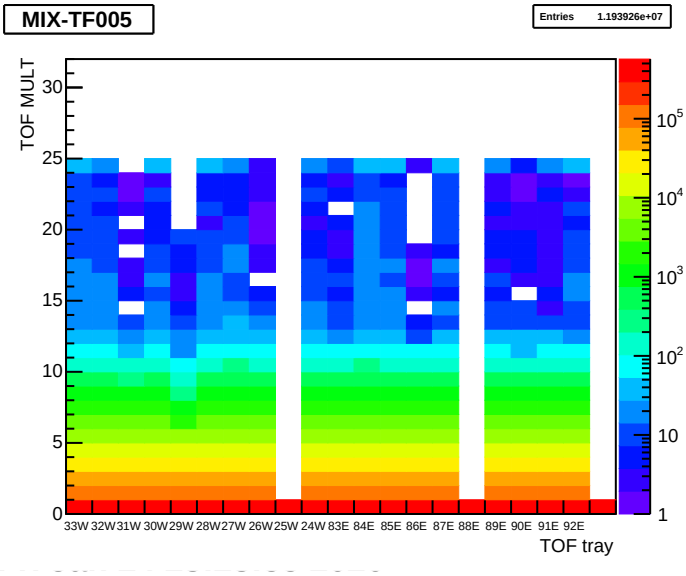

BunchId7Bit (TOFmult window)
Entries 17430
10^2
10
1
0 20 40 60 80 100 120

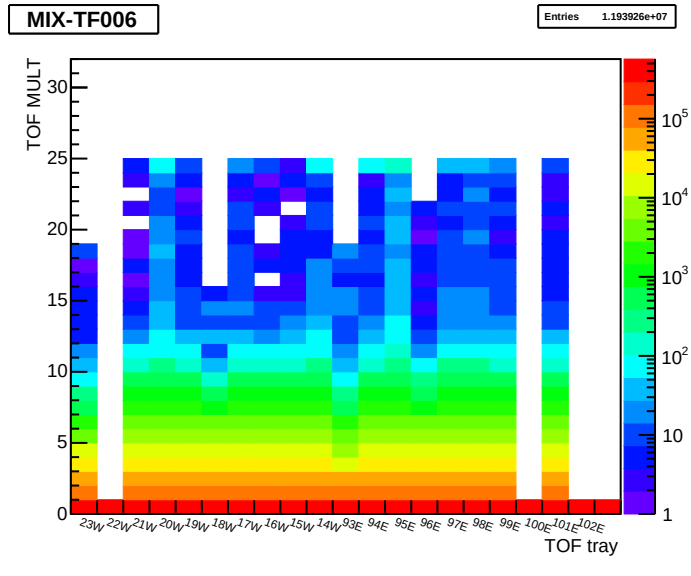

MIX-TF001
Entries 1.193926e+07
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

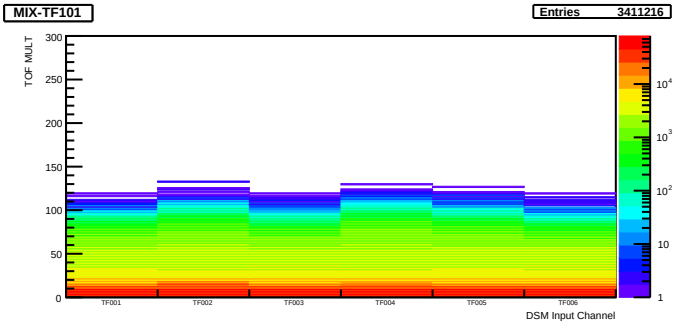

MIX-TF002
Entries 1.193926e+07
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

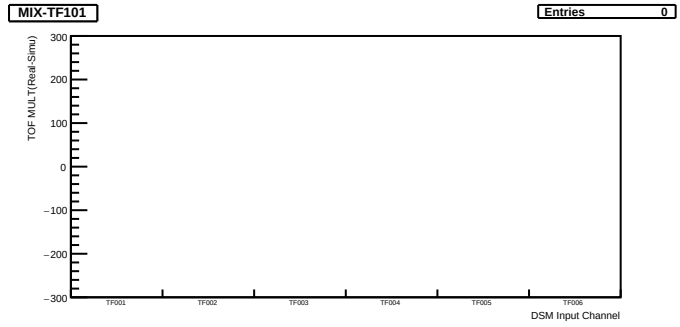

MIX-TF003
Entries 1.193926e+07
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

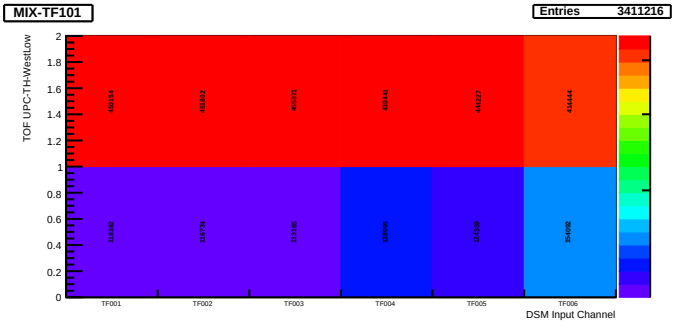

MIX-TF004
Entries 1.193926e+07
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

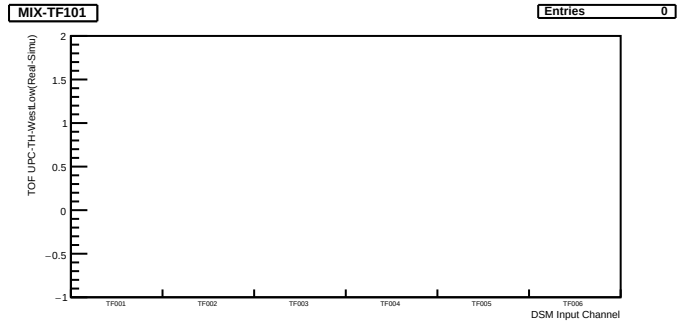

MIX-TF005
Entries 1.193926e+07
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

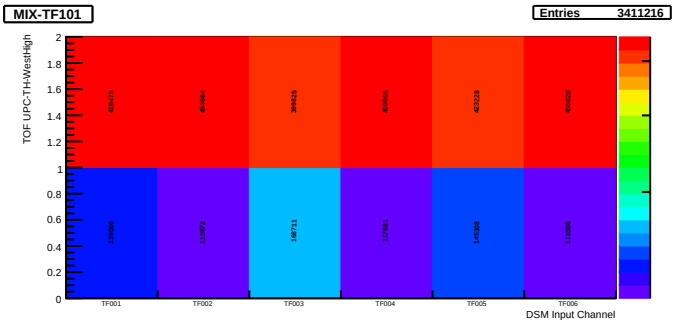

MIX-TF006
Entries 1.193926e+07
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

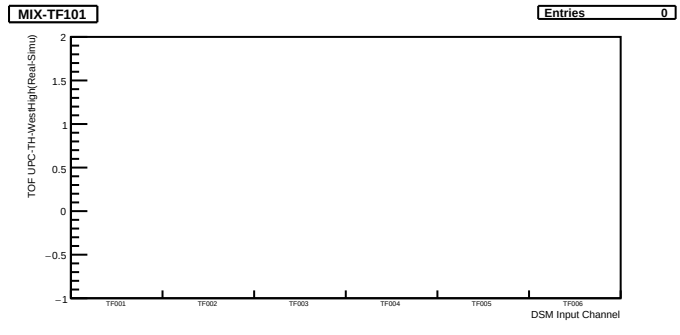

MIX-TF101
Entries 3411216
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

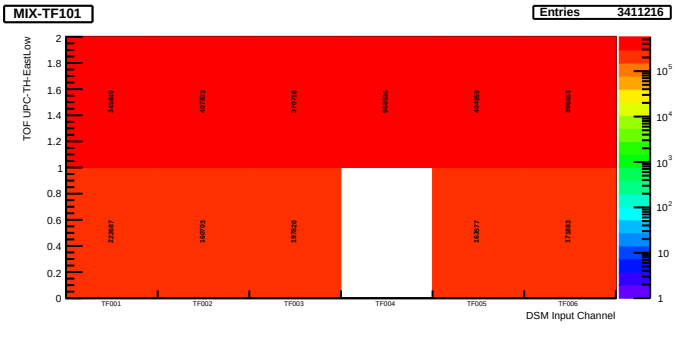

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

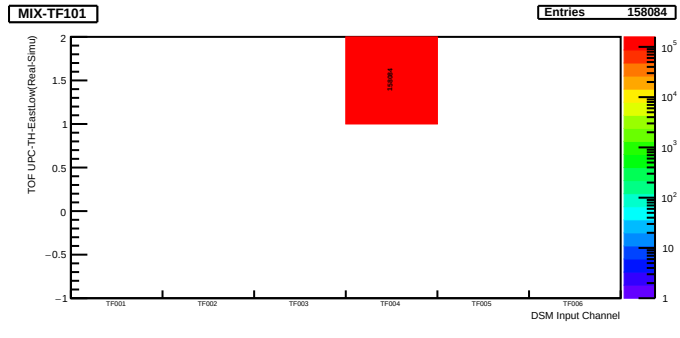

MIX-TF101
Entries 3411216
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

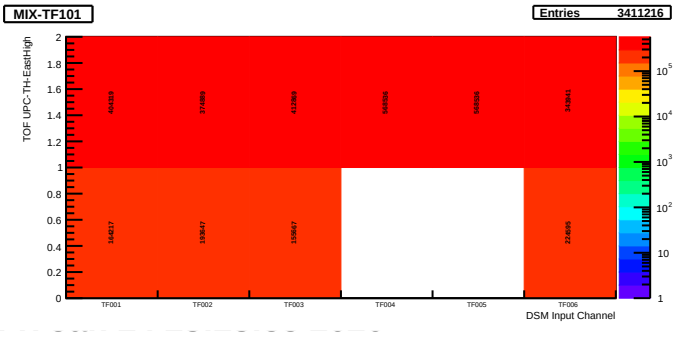

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

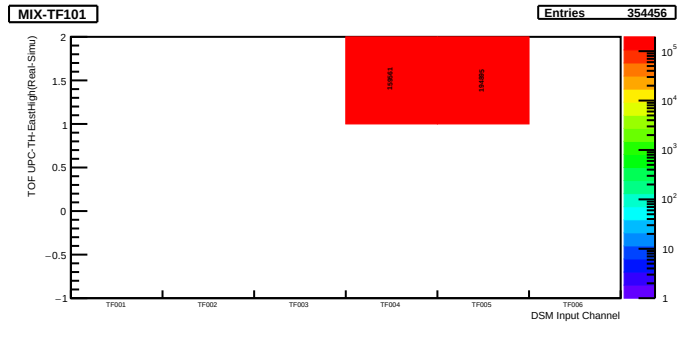

MIX-TF101
Entries 3411216
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

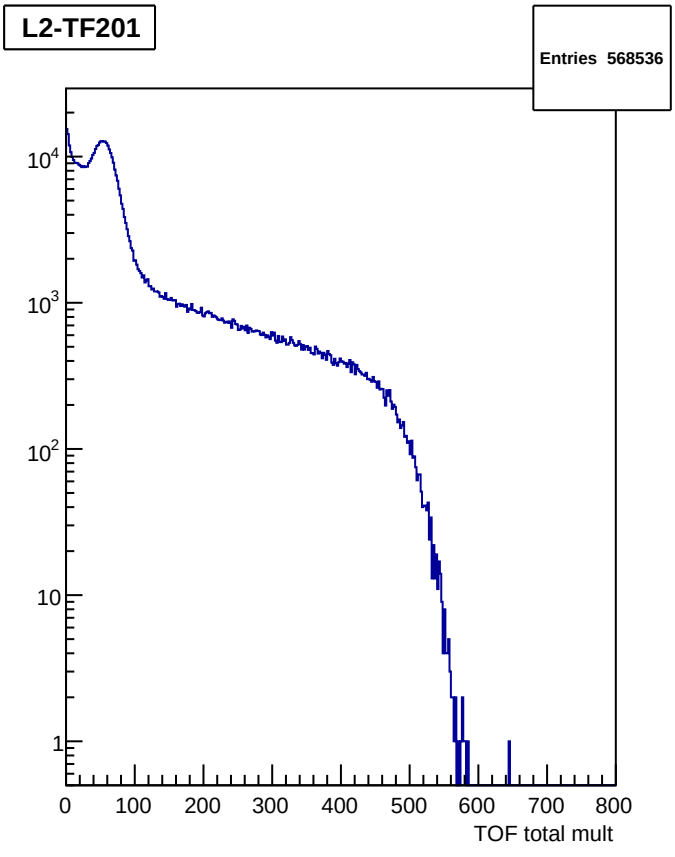

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

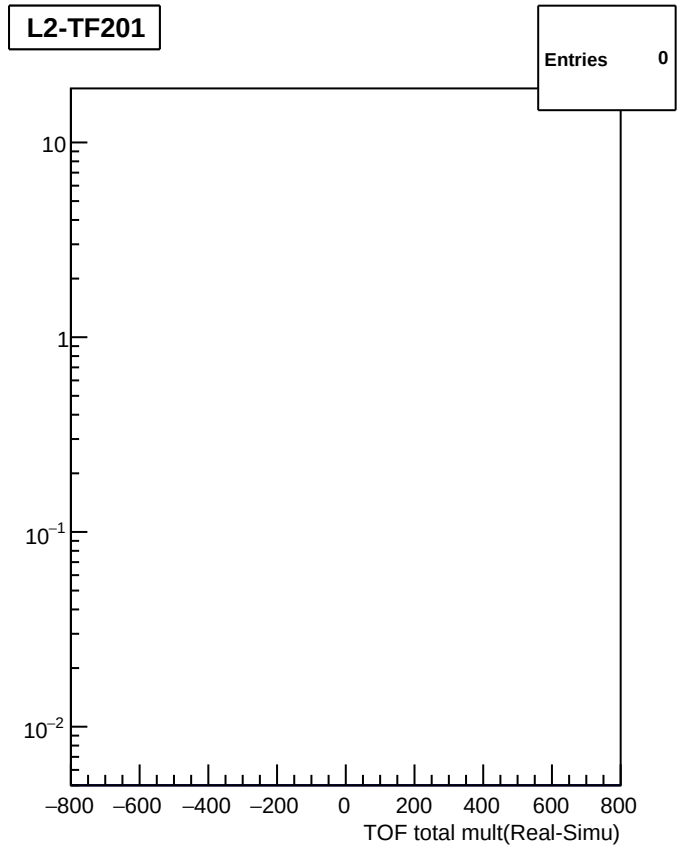

MIX-TF101
Entries 3411216
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

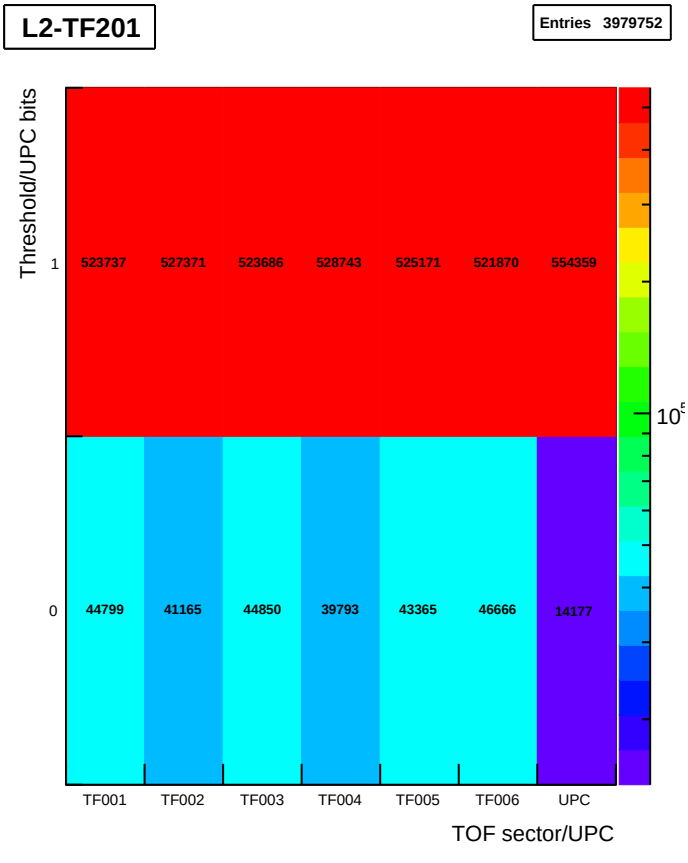

MIX-TF101
Entries 158084
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

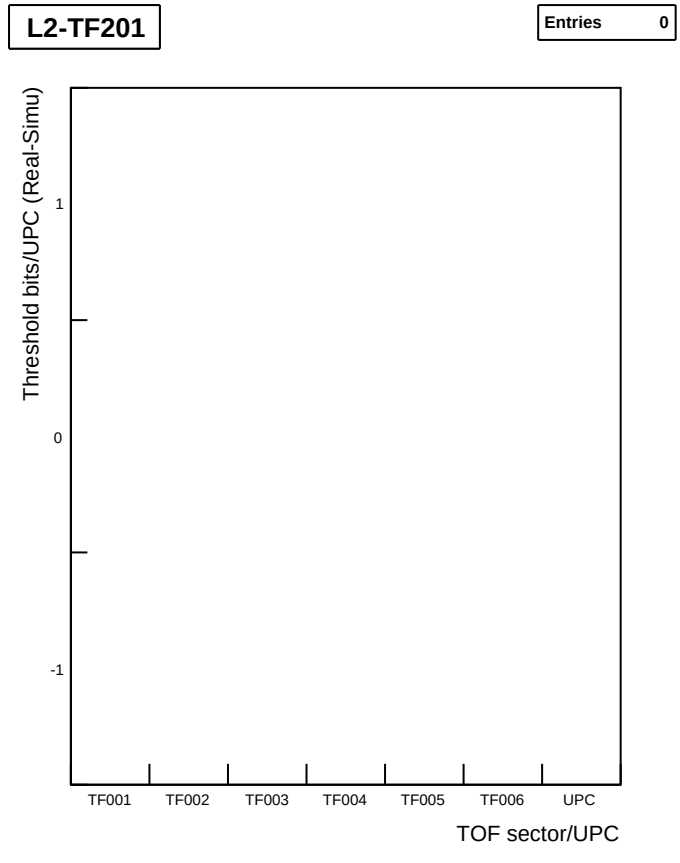

MIX-TF101
Entries 3411216
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

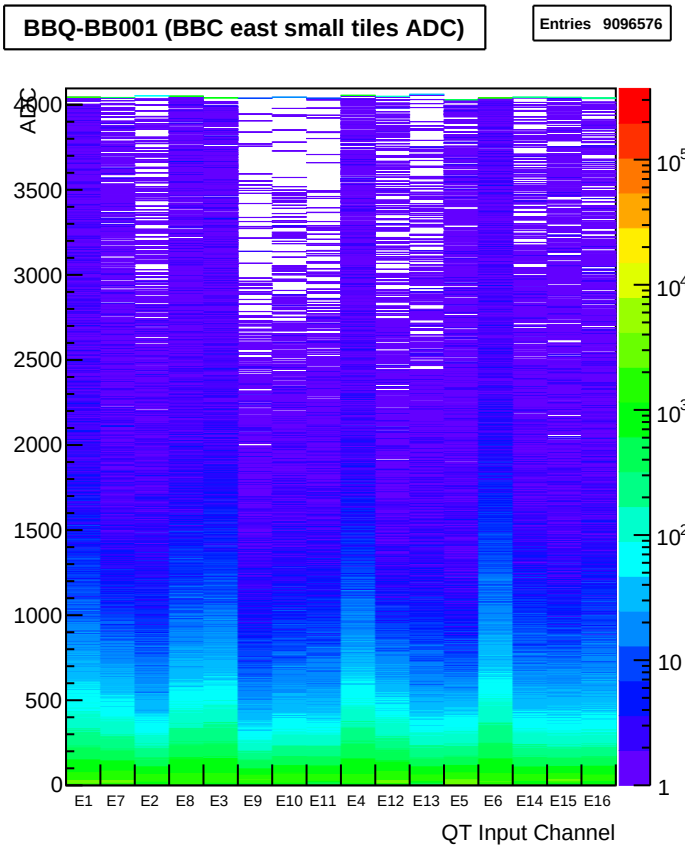

MIX-TF101
Entries 354456
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

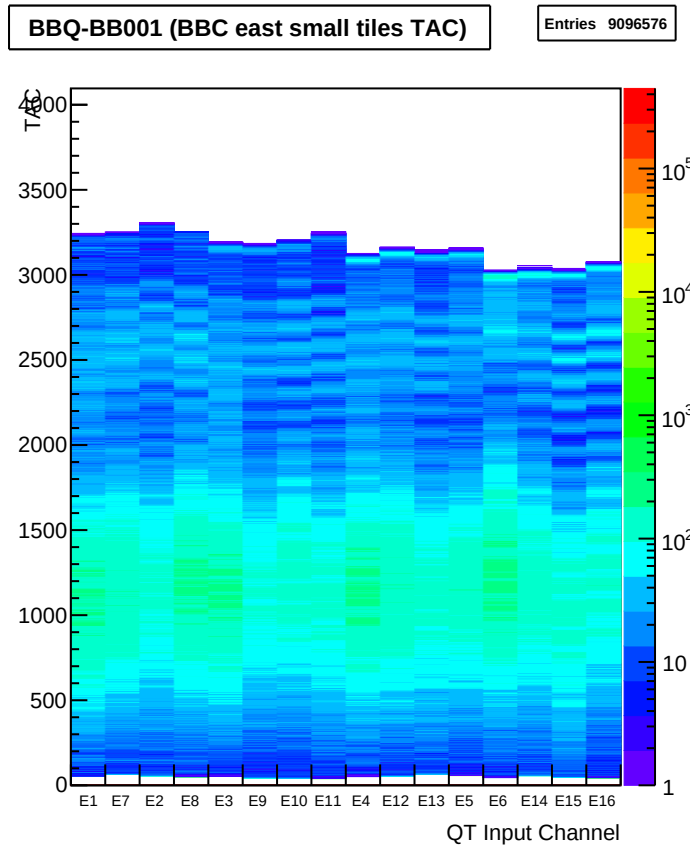

L2-TF201
Entries 568536
TOF total mult

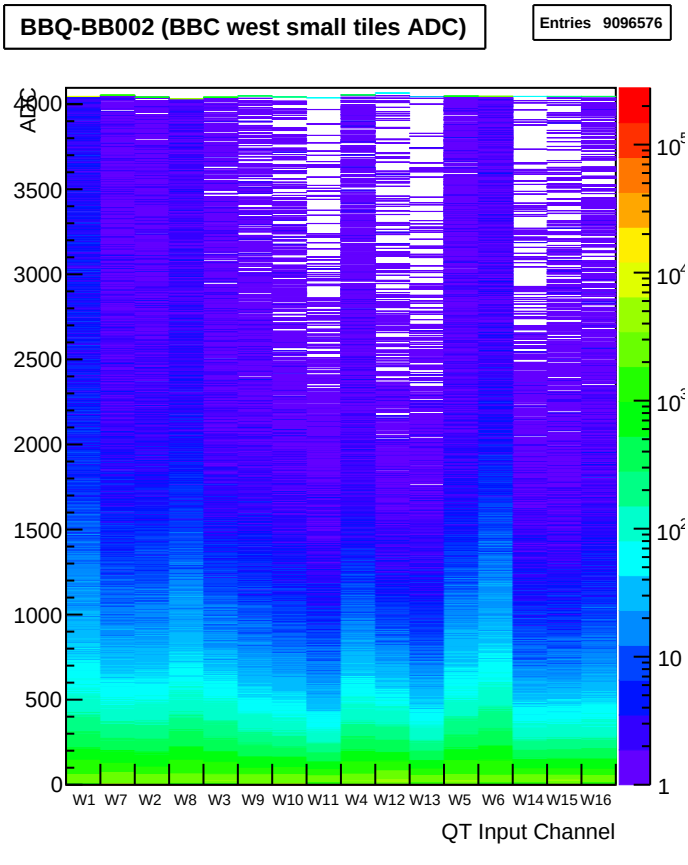

L2-TF201
Entries 0
TOF total mult(Real-Simu)

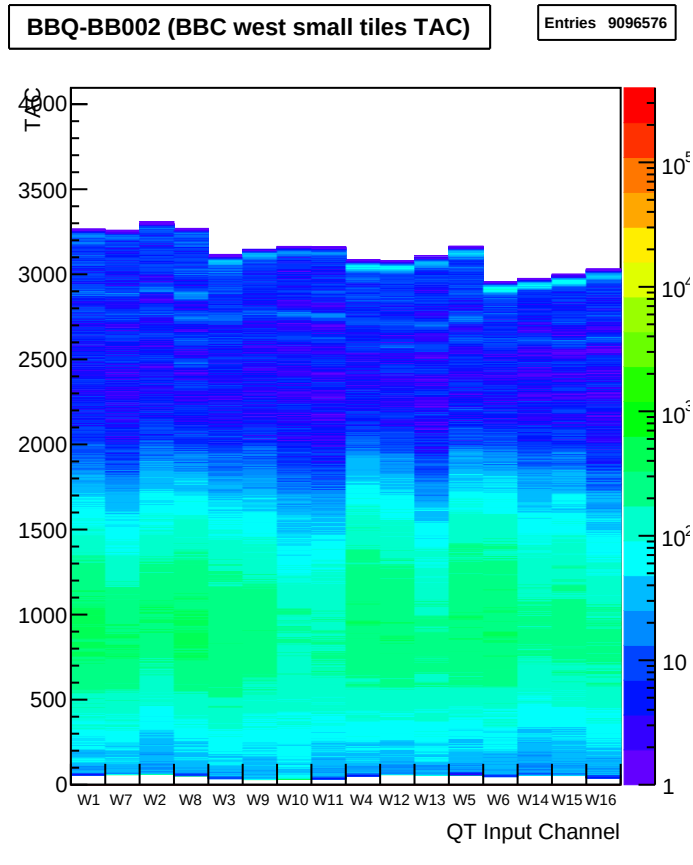

L2-TF201
Entries 3979752
Threshold/UPC bits
523737
527371
523686
528743
525171
521870
554359
44799
41165
44850
39793
43365
46666
14177
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

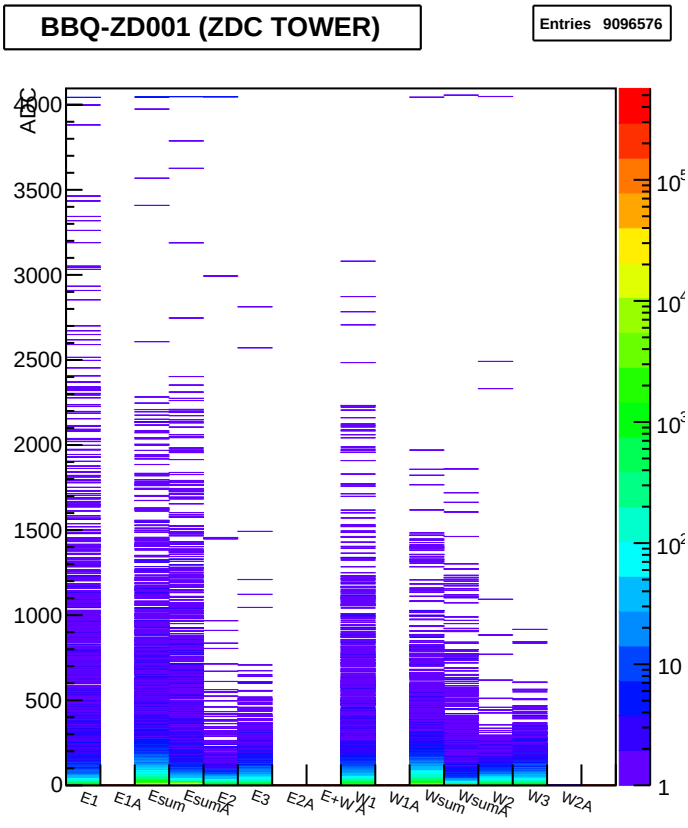

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001
TF002
TF003
TF004
TF005
TF006
UPC
TOF sector/UPC

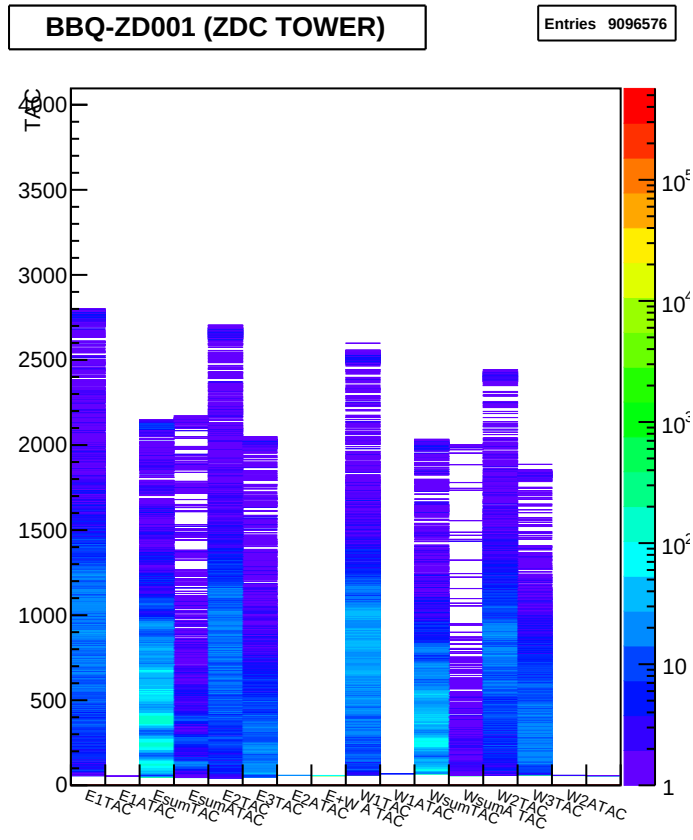

BBQ-BB001 (BBC east small tiles ADC)
Entries 9096576
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

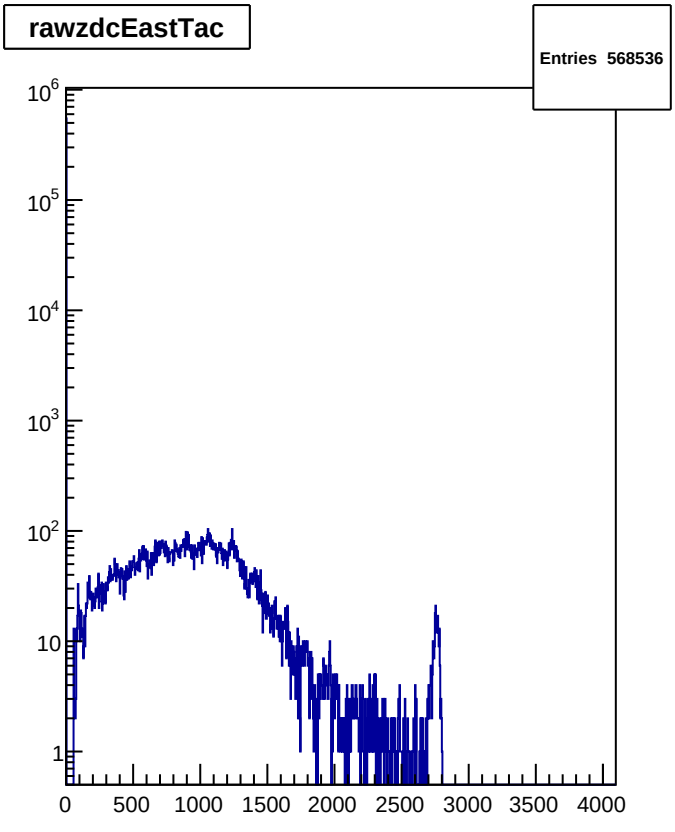

BBQ-BB001 (BBC east small tiles TAC)
Entries 9096576
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

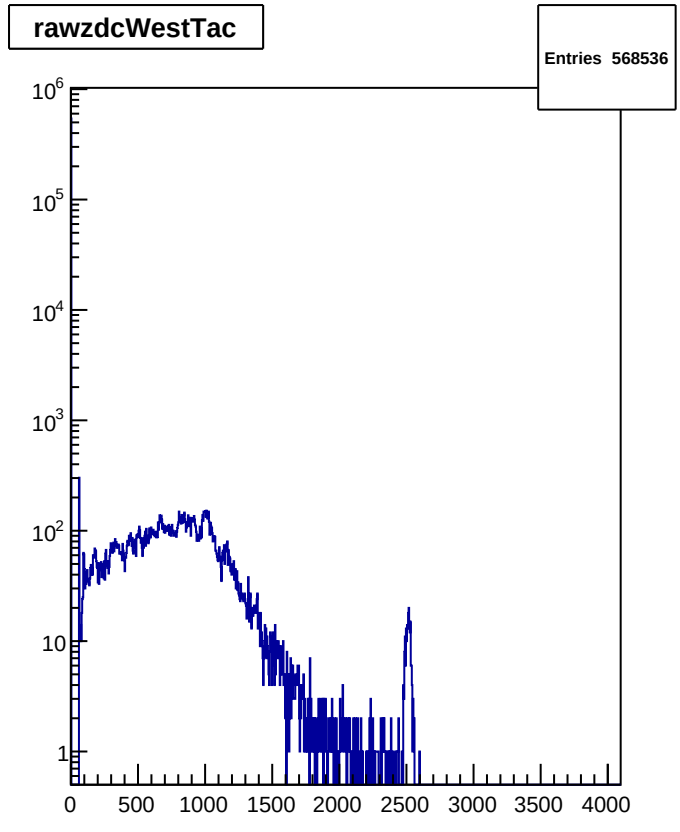

BBQ-BB002 (BBC west small tiles ADC)
Entries 9096576
ADC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

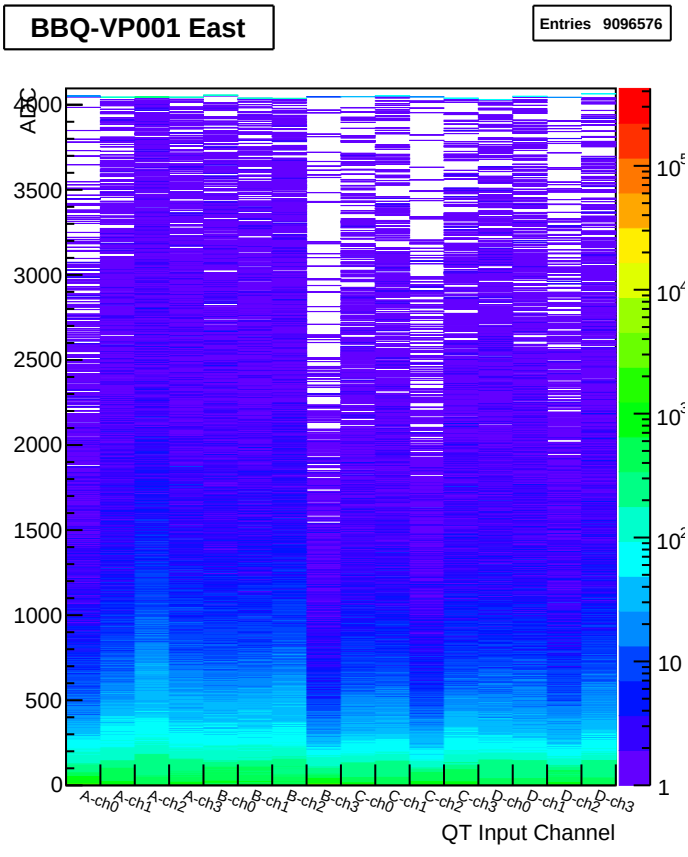

BBQ-BB002 (BBC west small tiles TAC)
Entries 9096576
TAC
0
500
1000
1500
2000
2500
3000
3500
4000
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16
QT Input Channel
1
10
10²
10³
10⁴
10⁵

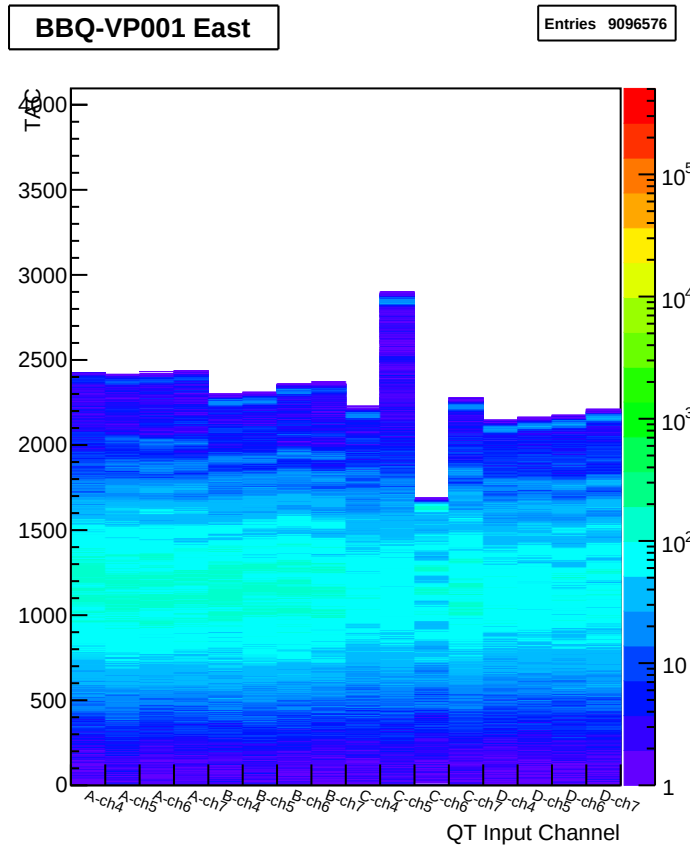

BBQ-ZD001 (ZDC TOWER)
Entries 9096576
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

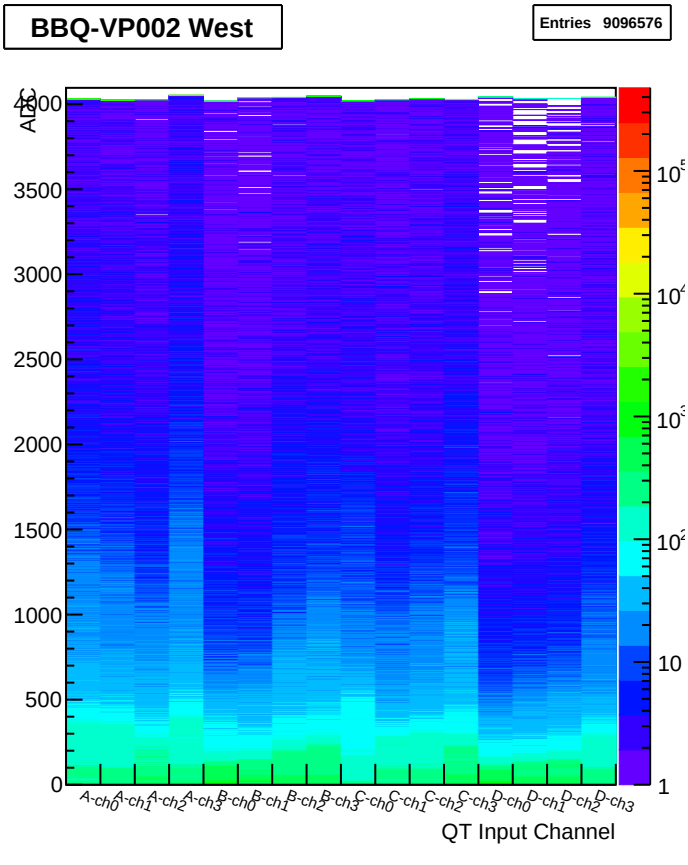

BBQ-ZD001 (ZDC TOWER)
Entries 9096576
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

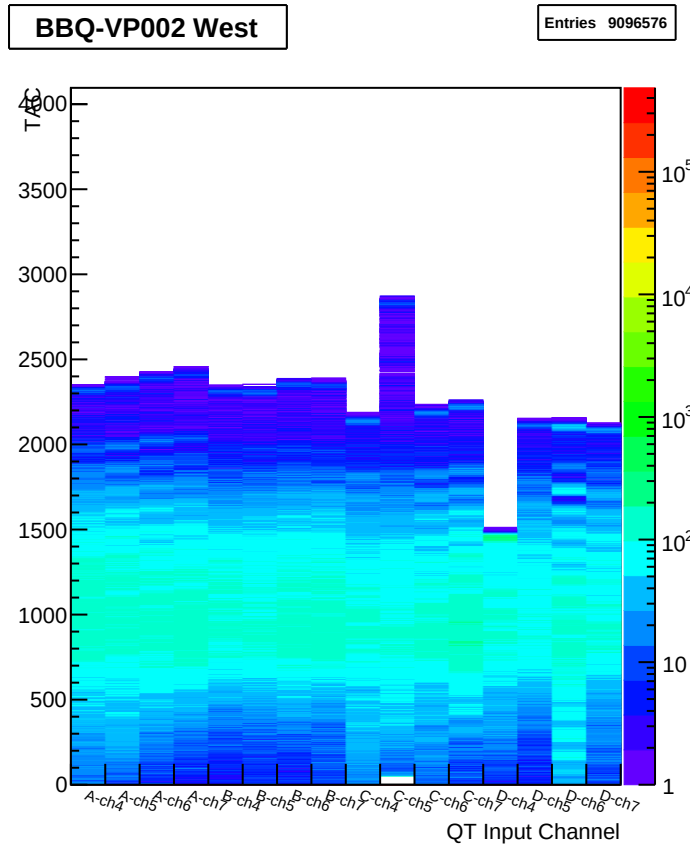

rawzdcEastTac
Entries 568536

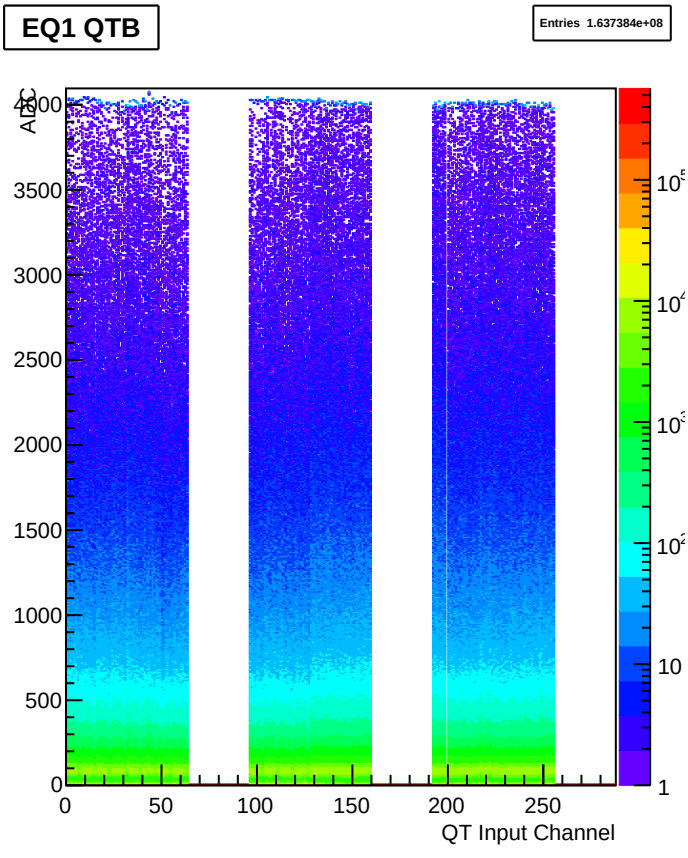

rawzdcWestTac
Entries 568536

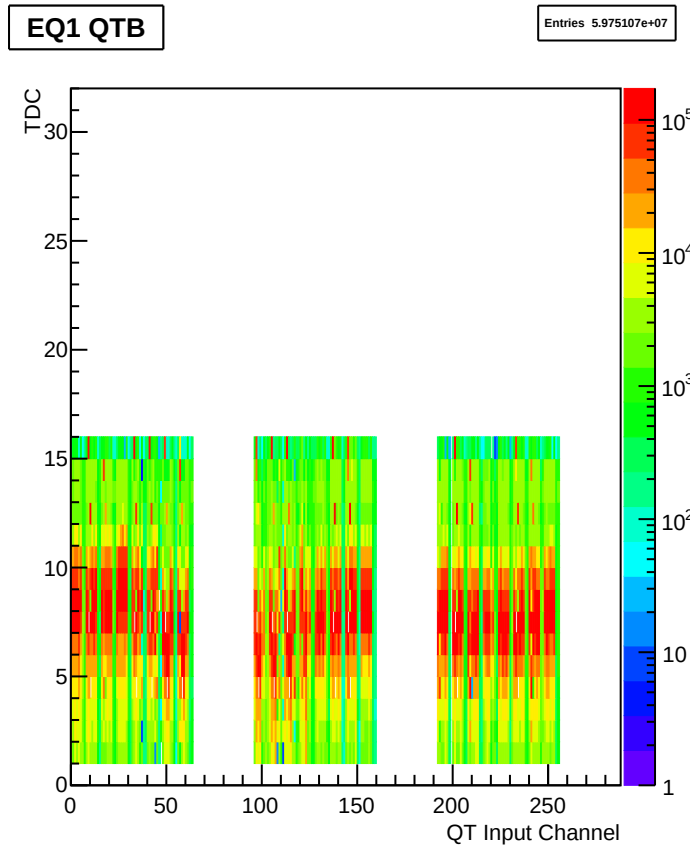

BBQ-VP001 East
Entries 9096576
ADC
QT Input Channel

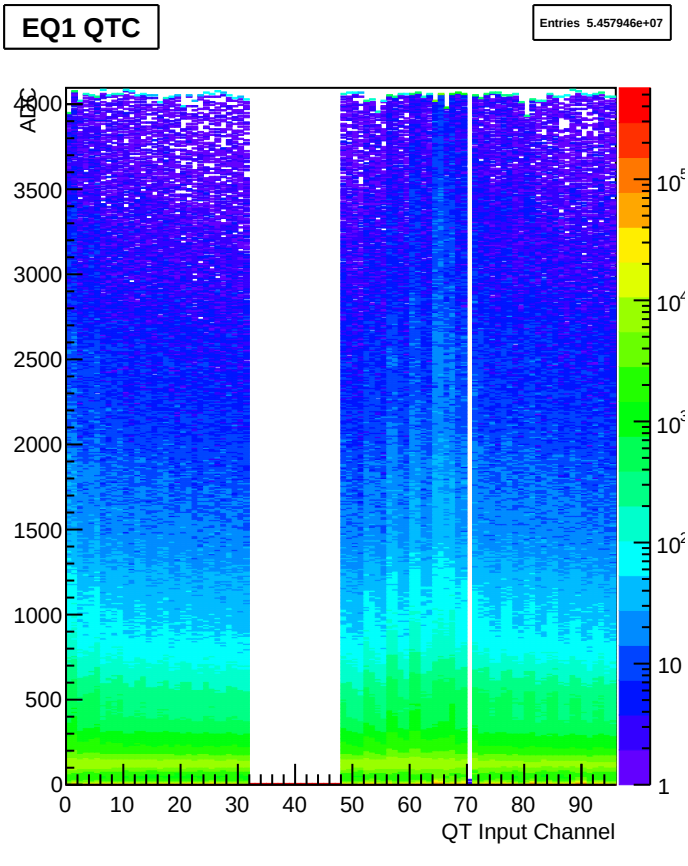

BBQ-VP001 East
Entries 9096576
TADC
QT Input Channel

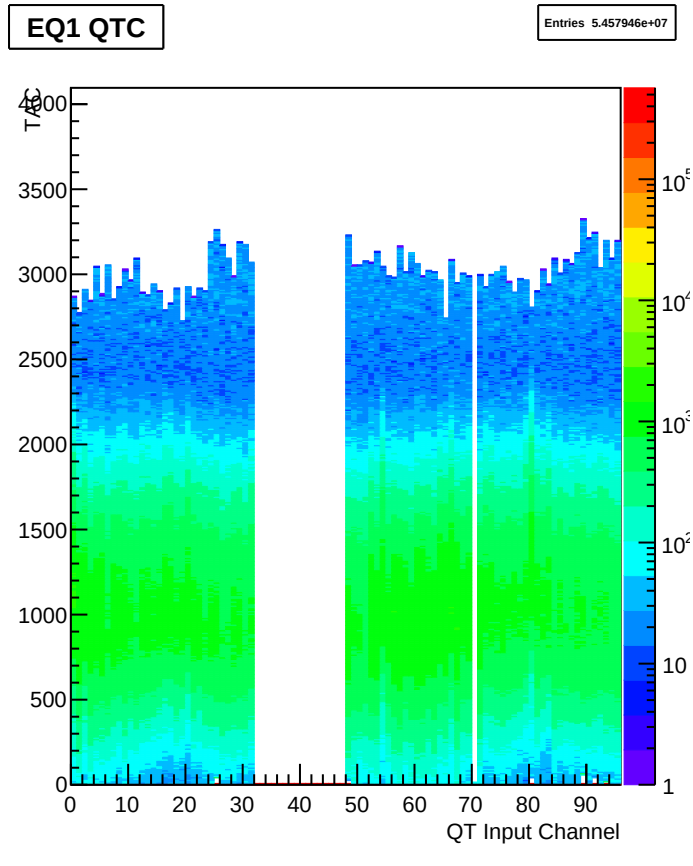

BBQ-VP002 West
Entries 9096576
ADC
QT Input Channel

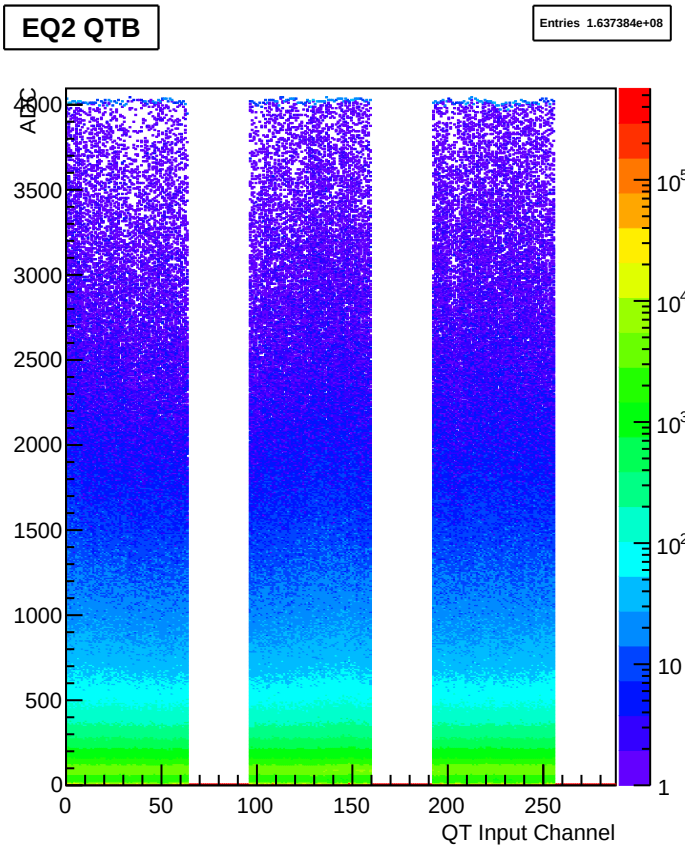

BBQ-VP002 West
Entries 9096576
TADC
QT Input Channel

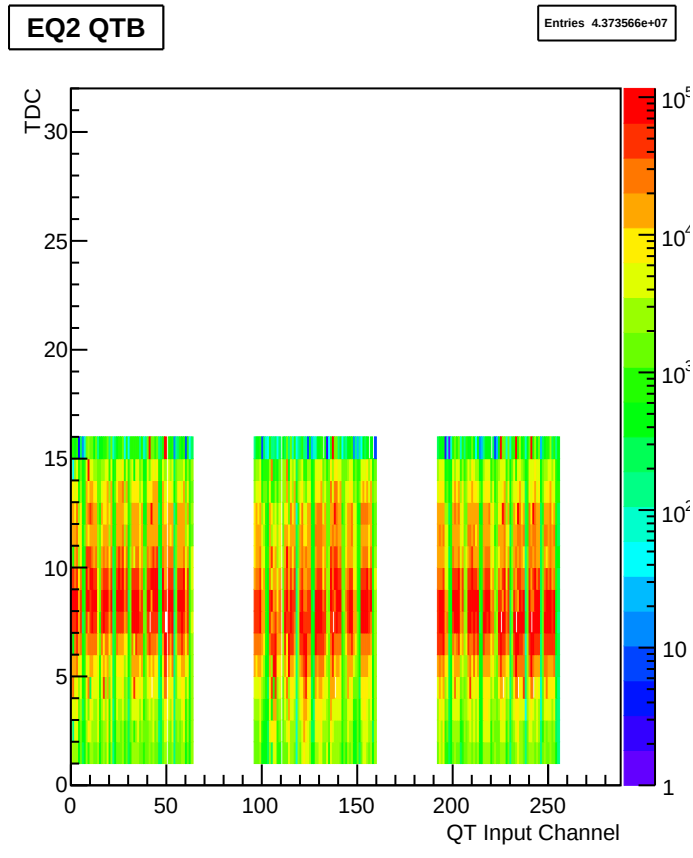

EQ1 QTB
Entries 1.637384e+08
ADC
QT Input Channel

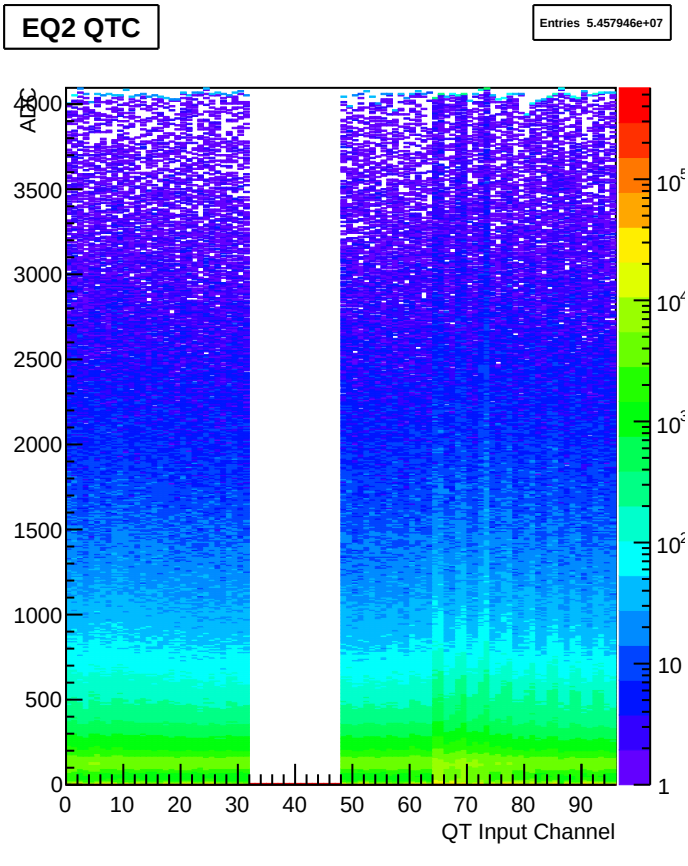

EQ1 QTB
Entries 5.975107e+07
TDC
QT Input Channel

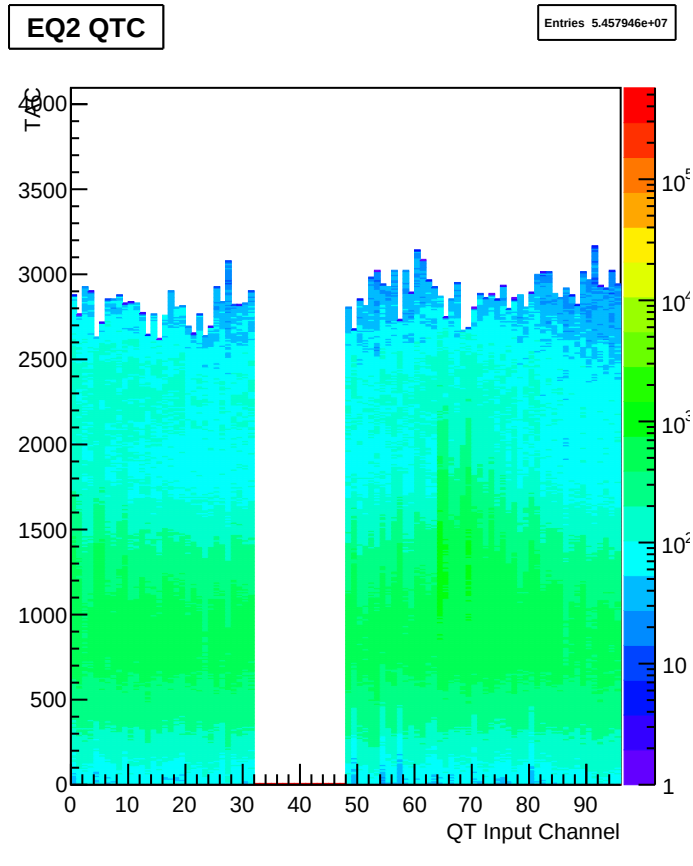

EQ1 QTC
Entries 5.457946e+07
ADC
QT Input Channel

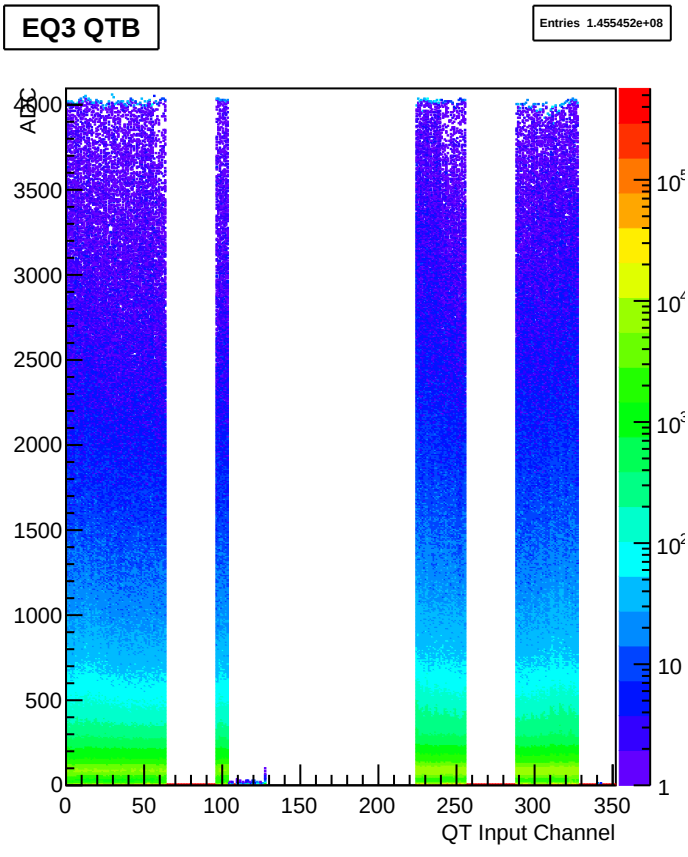

EQ1 QTC
Entries 5.457946e+07
TADC
QT Input Channel


EQ2 QTB
Entries 1.637384e+08
ADC
QT Input Channel


EQ2 QTB
Entries 4.373566e+07
TDC
QT Input Channel


EQ2 QTC
Entries 5.457946e+07
ADC
QT Input Channel


EQ2 QTC
Entries 5.457946e+07
TADC
QT Input Channel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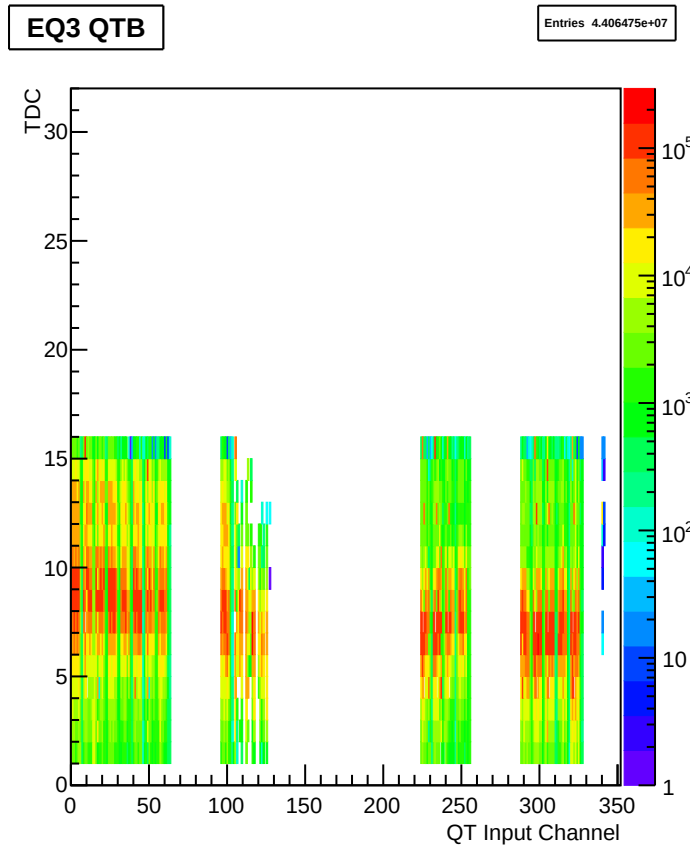
Entries 1.455452e+08
ADC
QT Input Channel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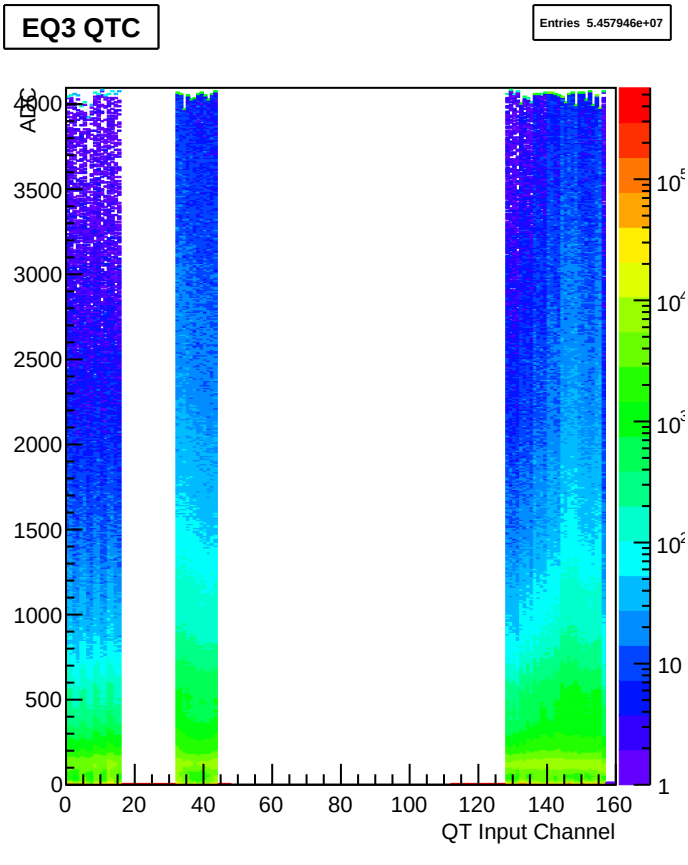
QT Input Channel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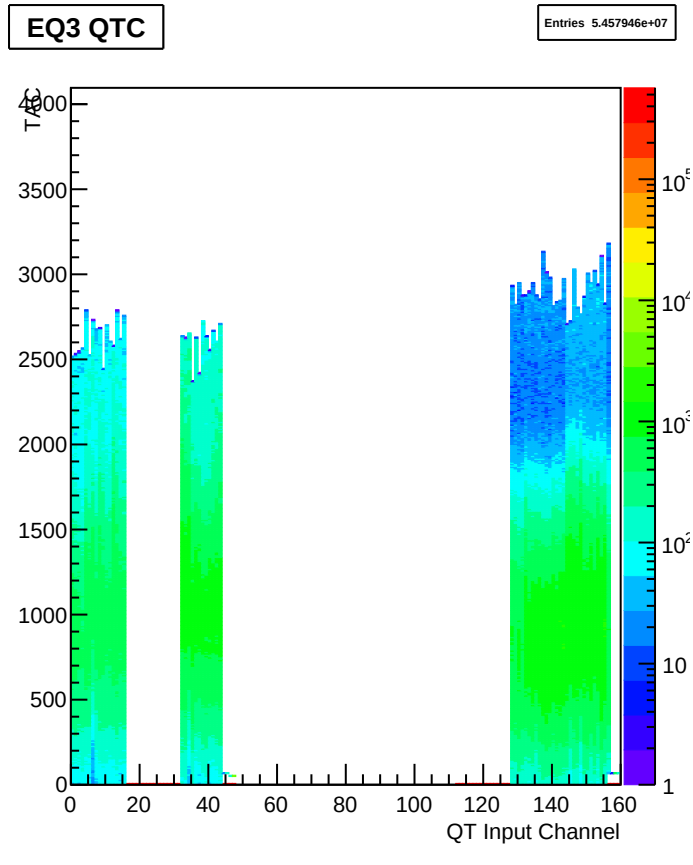
Entries 5.457946e+07
ADC
QT Input Channel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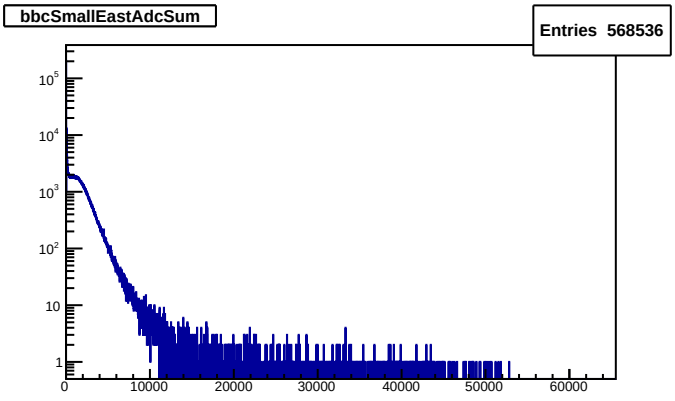
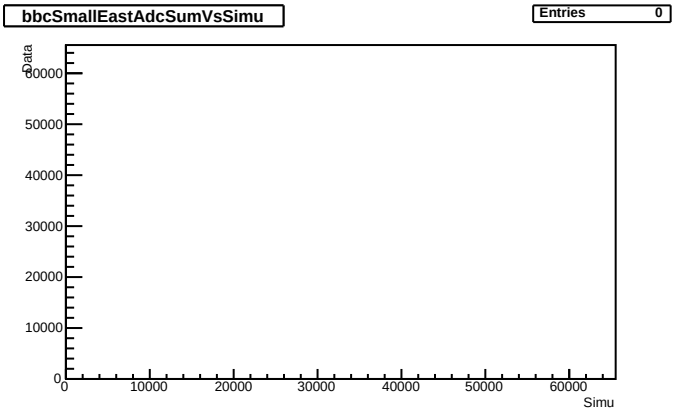
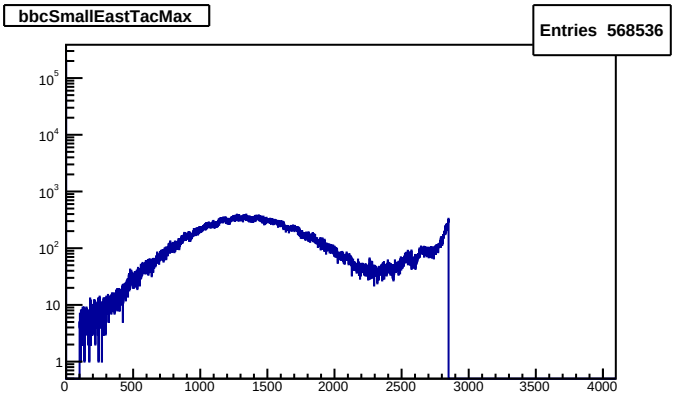
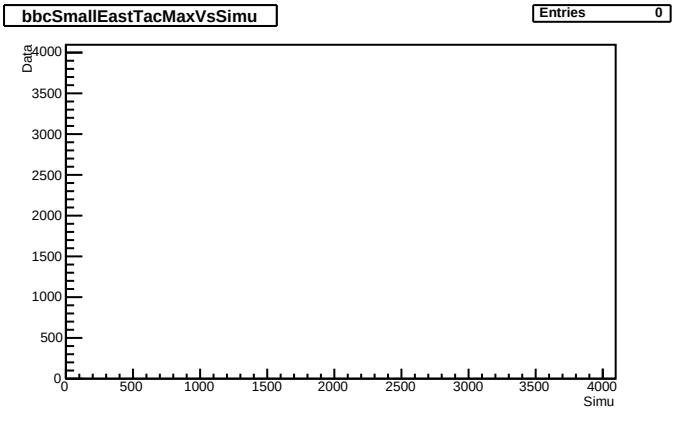
Entries 5.457946e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 568536


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 568536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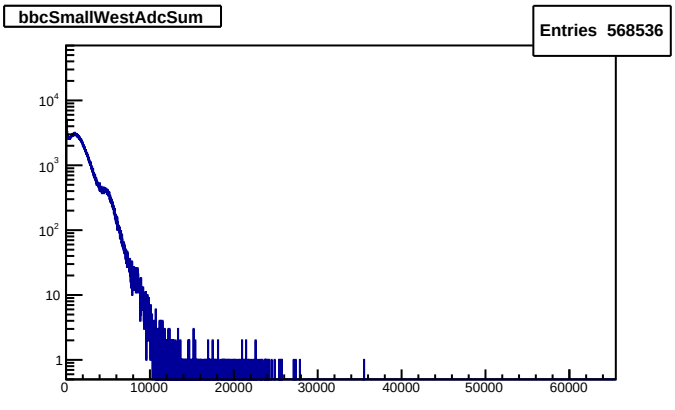
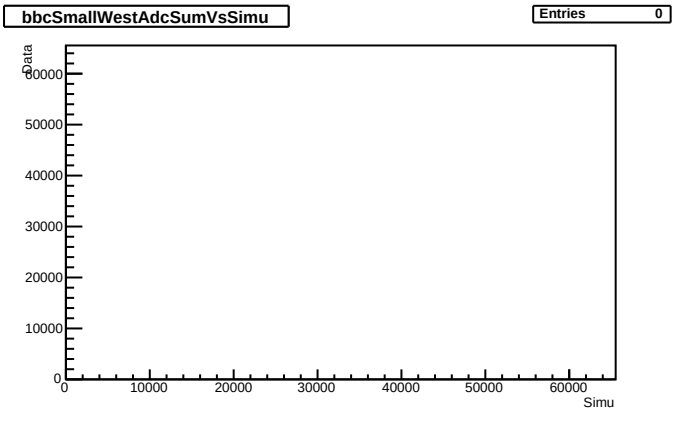
Entries 0
Data
Simu


bbcSmallWestAdcSum
Entries 568536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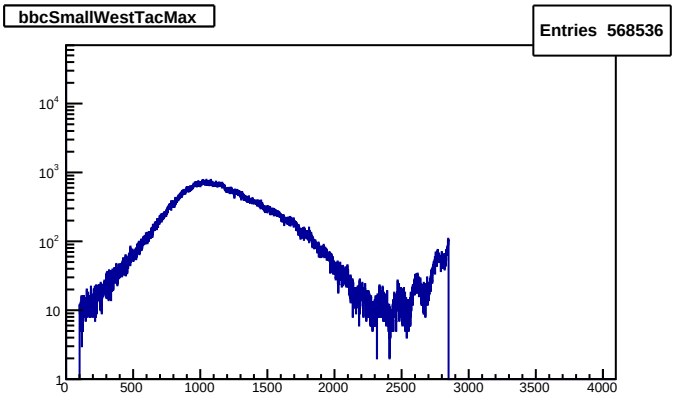
Entries 0
Data
Simu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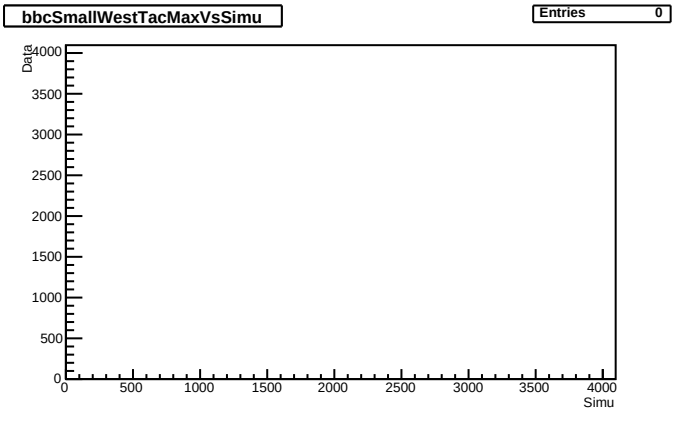
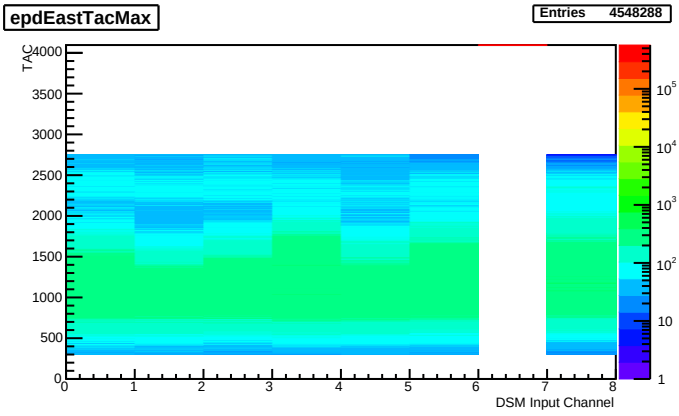
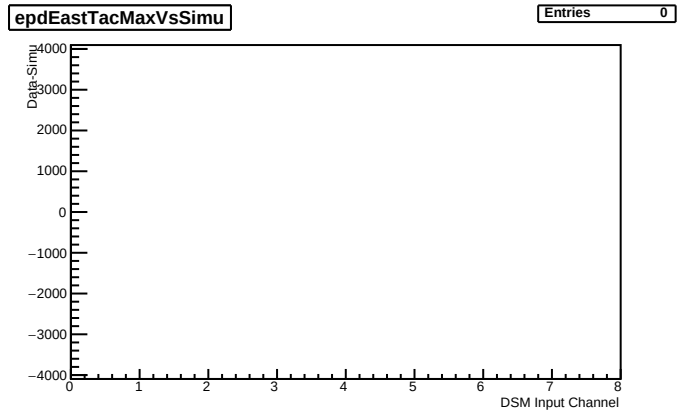
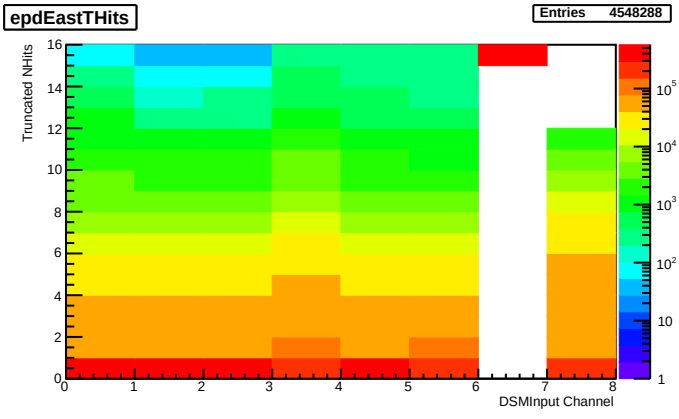
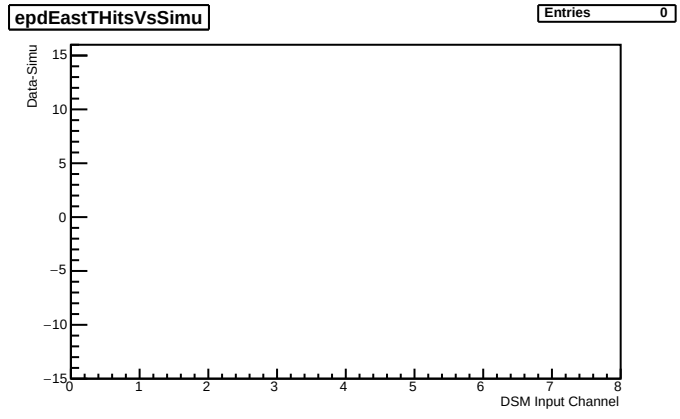
Entries 568536


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 4548288
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 4548288
Truncated NHits
DSMInput Channel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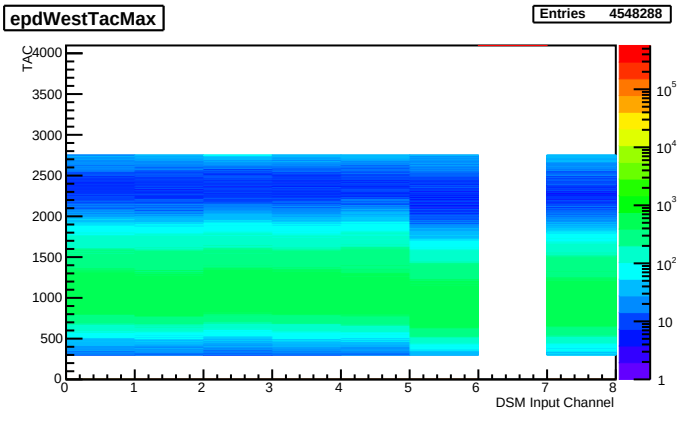
Entries 0
Data-Simu
DSM Input Channel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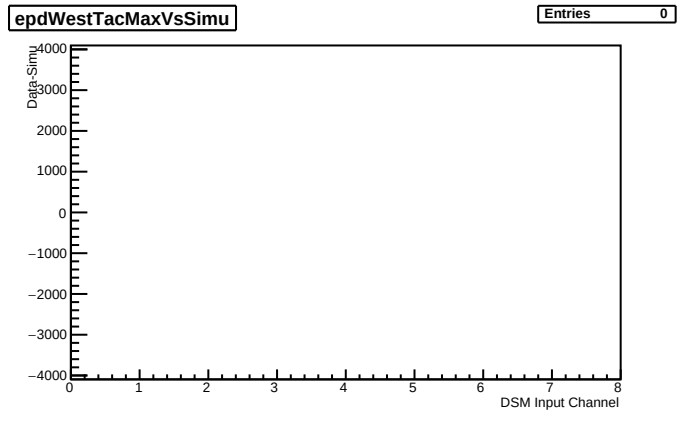
Entries 4548288
TAC
DSM Input Channel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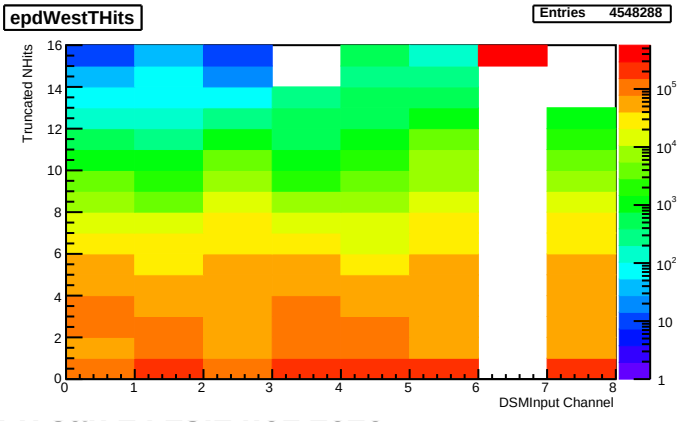
Entries 0
Data-Simu
DSM Input Channel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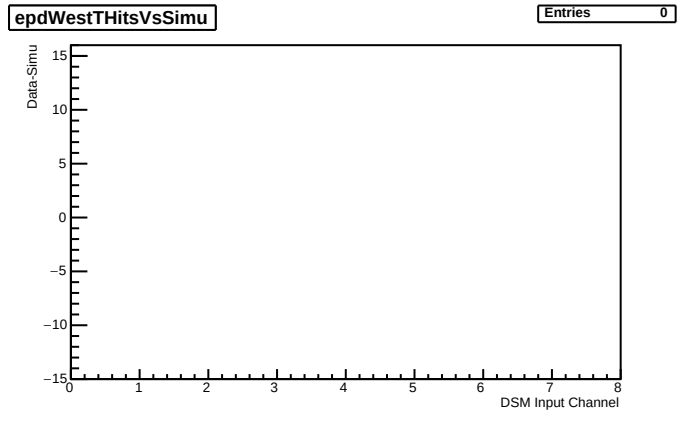
Entries 4548288
Truncated NHits
DSMInput Channel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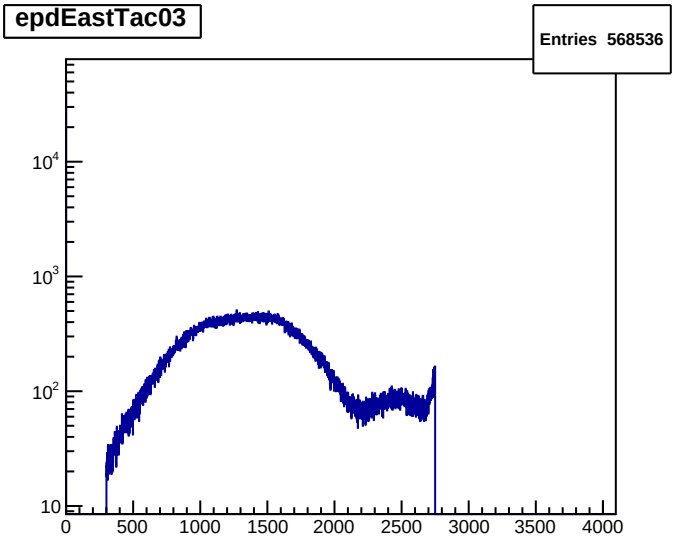
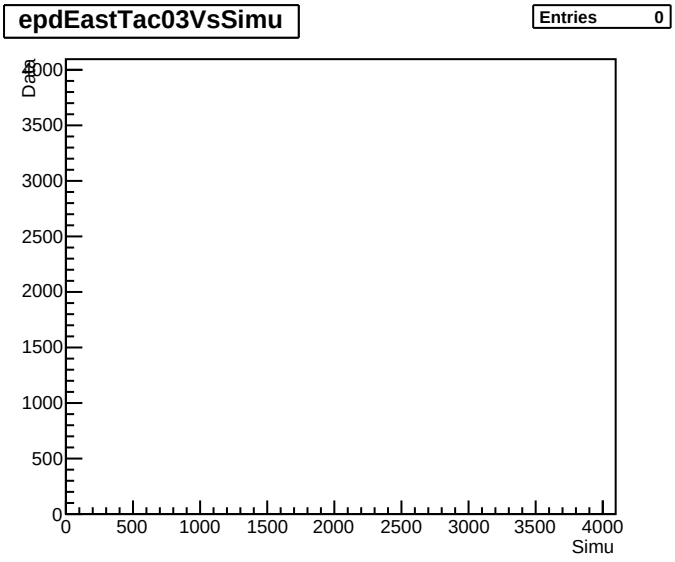
Entries 0
Data-Simu
DSM Input Channel


epdEastTac03
Entries 568536
10^4
10^3
10^2
10
0 500 1000 1500 2000 2500 3000 3500 4000


epdEastTac03VsSimu
Entries 0
Data
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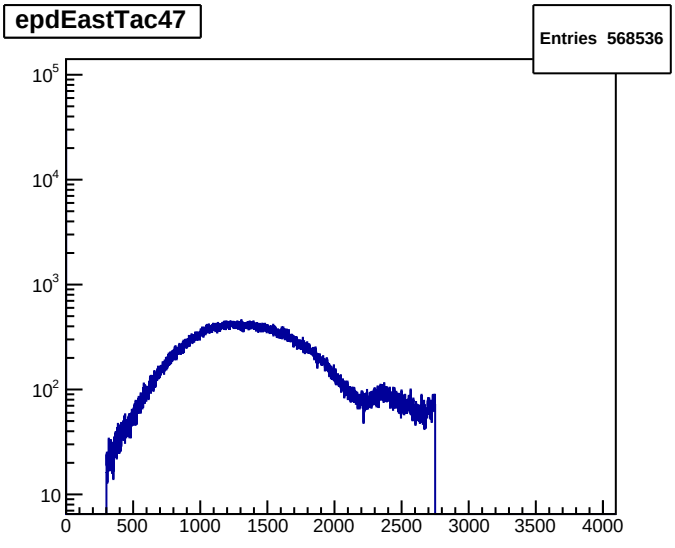
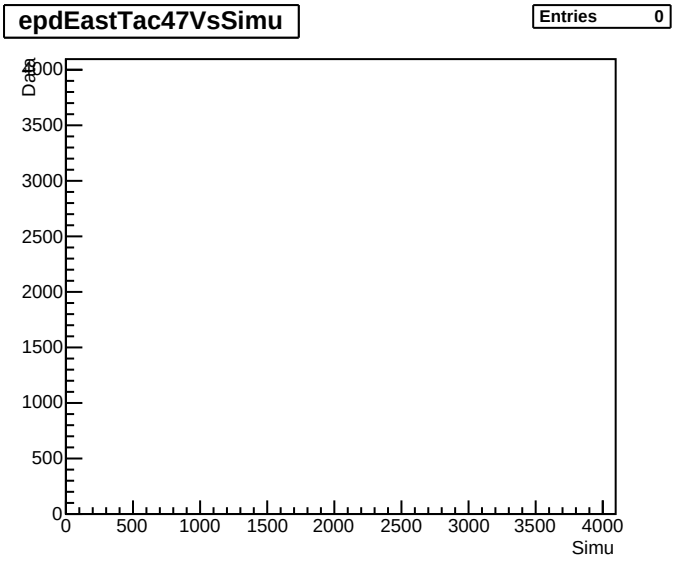
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastTac47
Entries 568536
10^5
10^4
10^3
10^2
10
0 500 1000 1500 2000 2500 3000 3500 4000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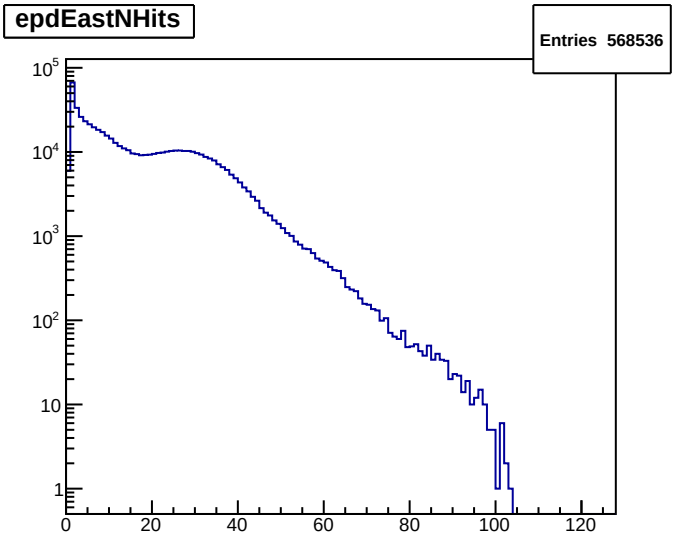
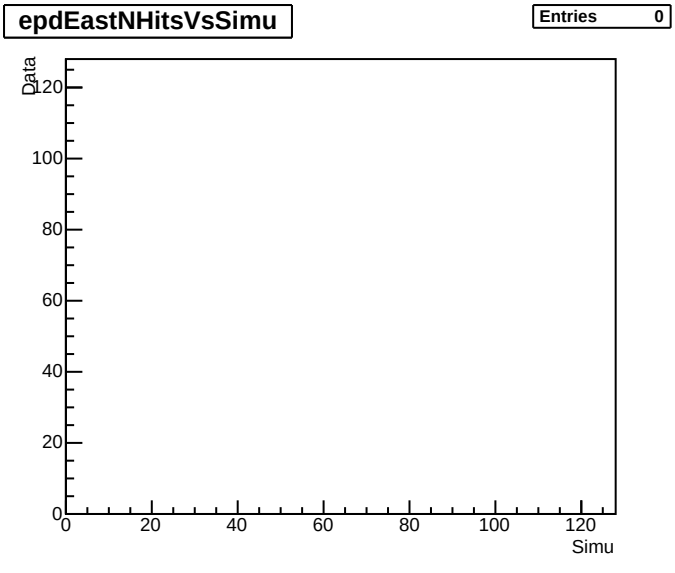
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastNHits
Entries 568536
10^5
10^4
10^3
10^2
10
1
0 20 40 60 80 100 120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Entries 0
Data
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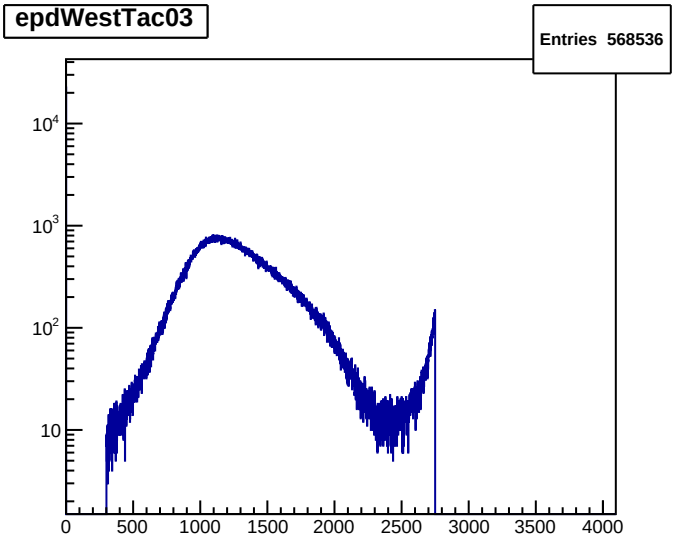
0 20 40 60 80 100 120
Simu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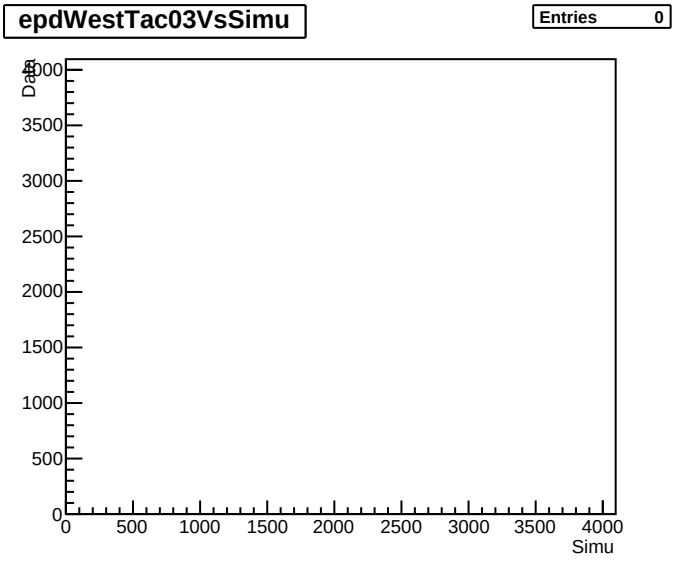
Entries 568536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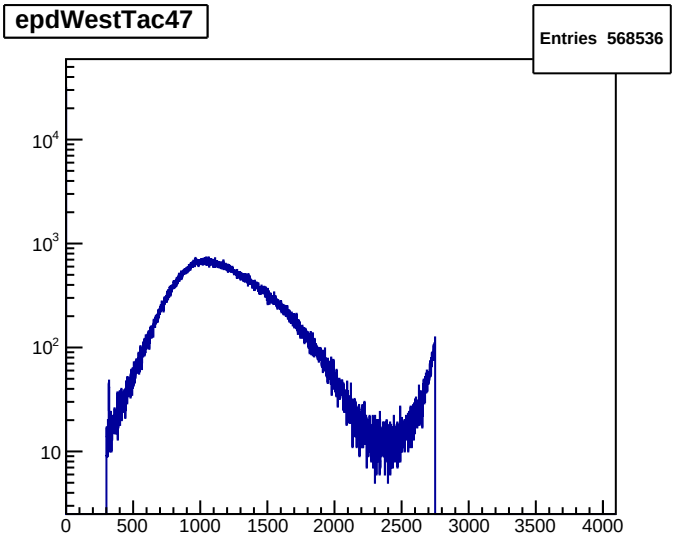
Entries 0
Data
Simu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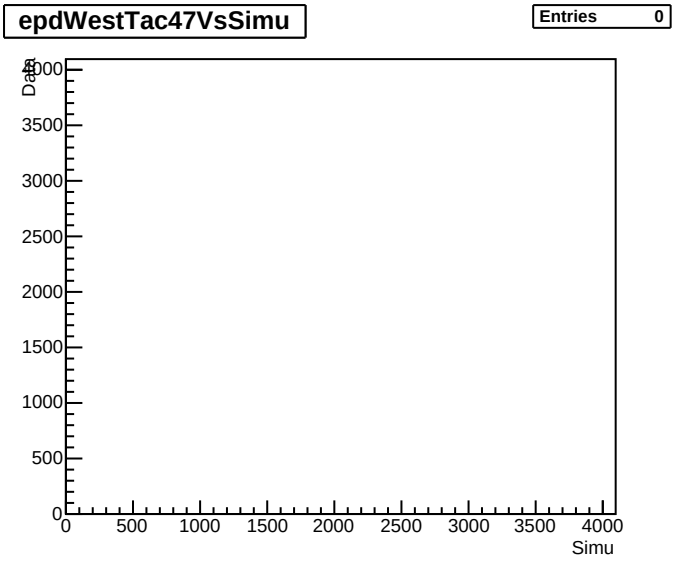
Entries 568536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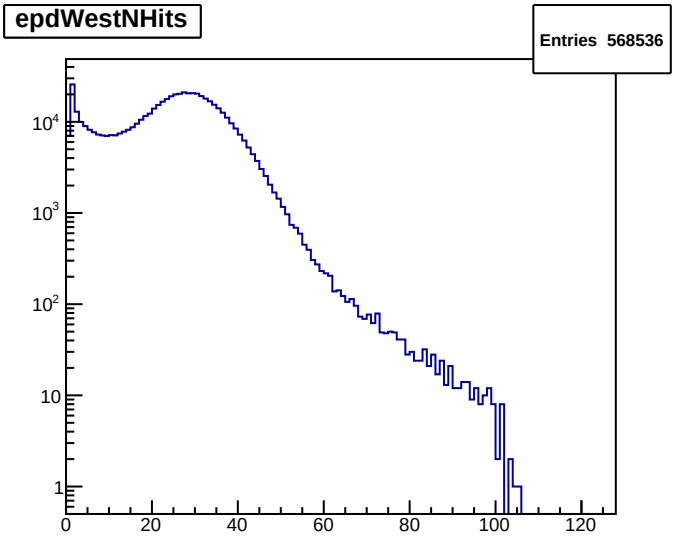
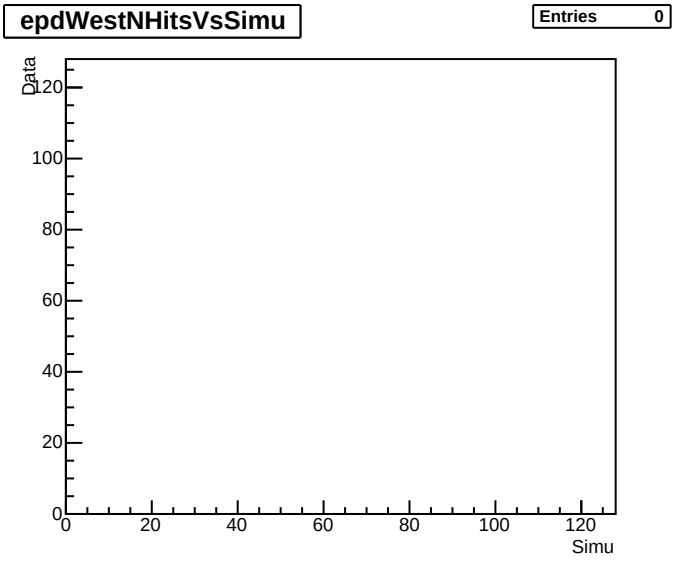
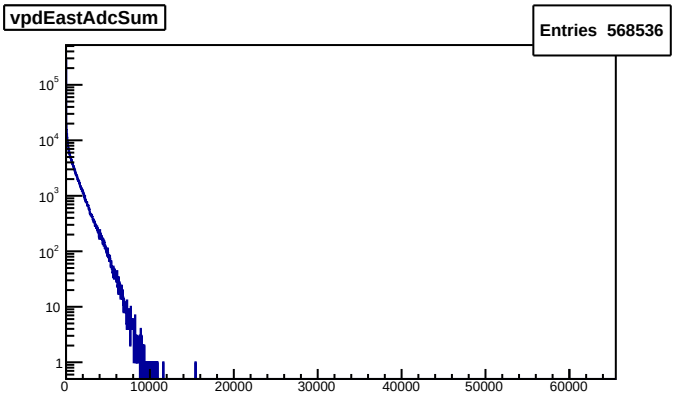
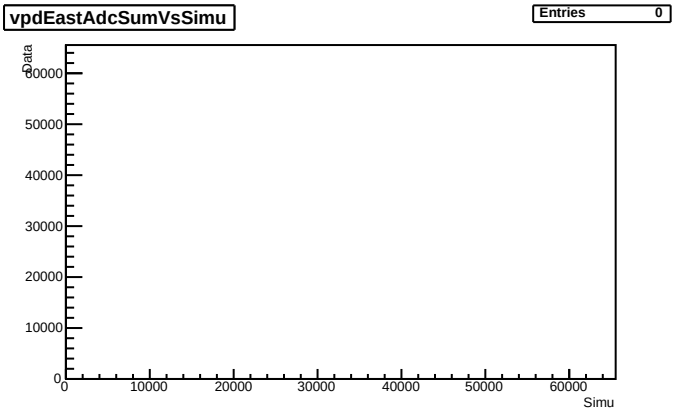
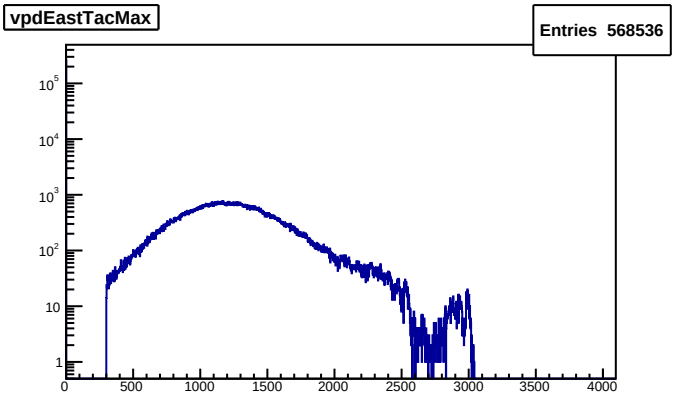
Entries 0
Data
Simu

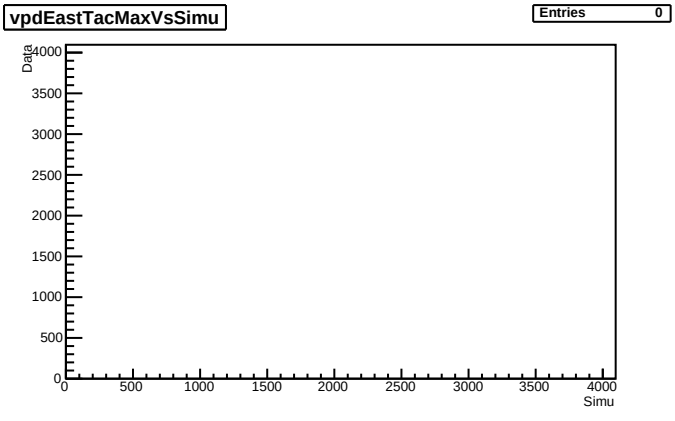

epdWestNHits
Entries 568536


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries 568536


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries 568536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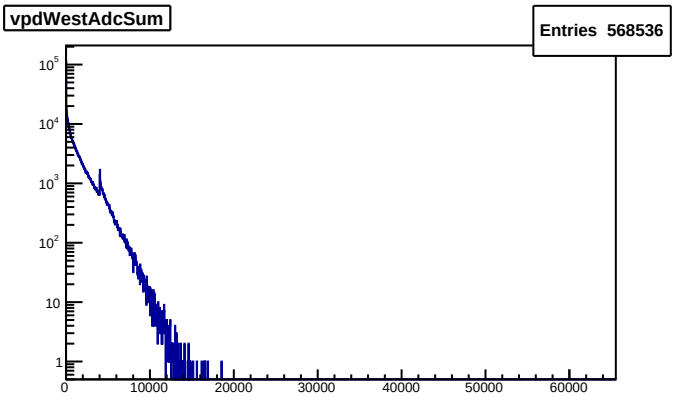
Entries 0
Data
Simu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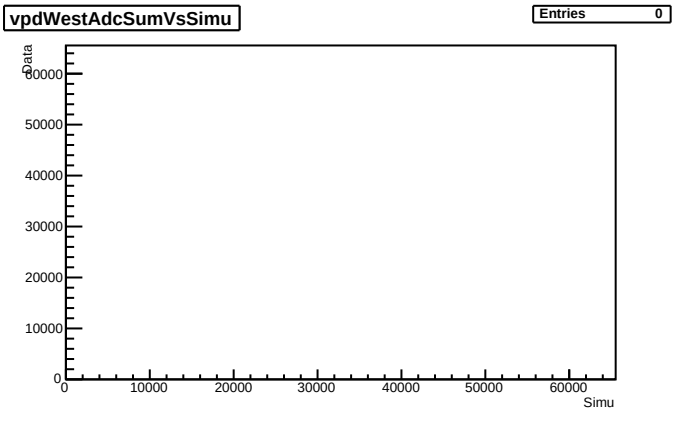
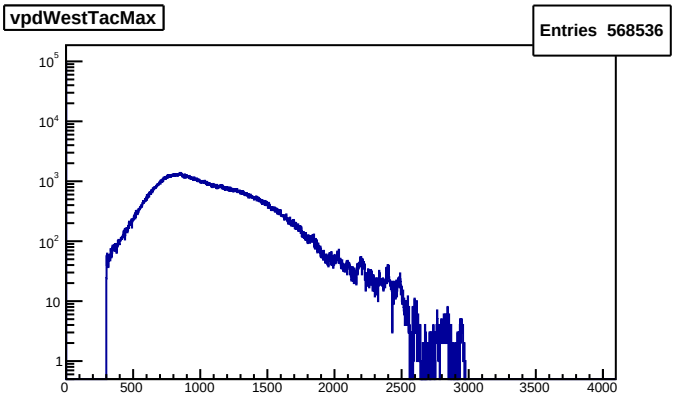
Entries 568536


vpdWestAdcSumVsSimu
Entries 0
Data
Simu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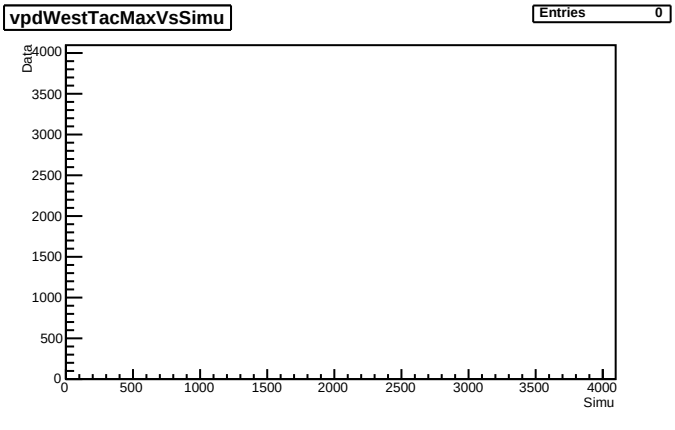
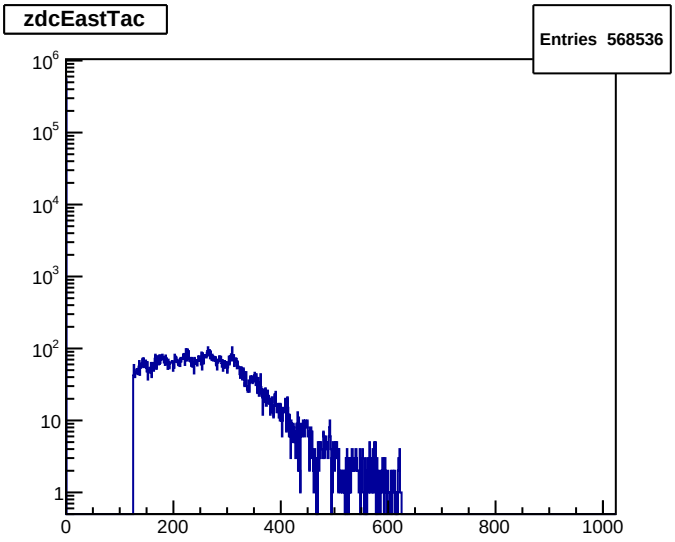
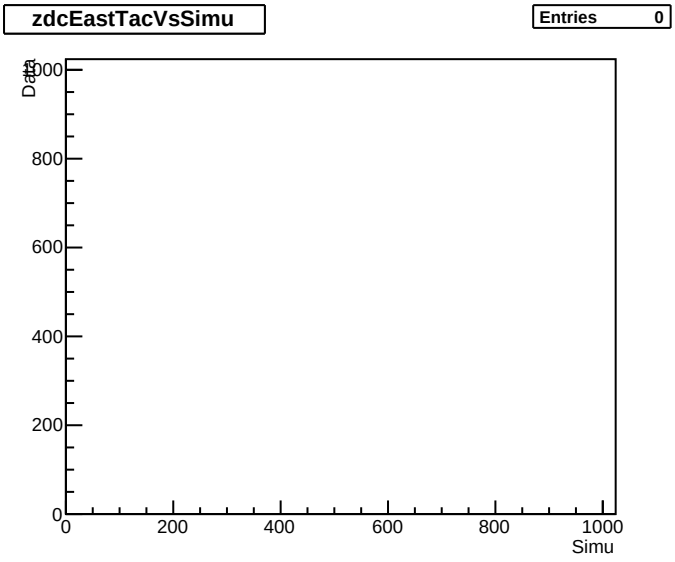
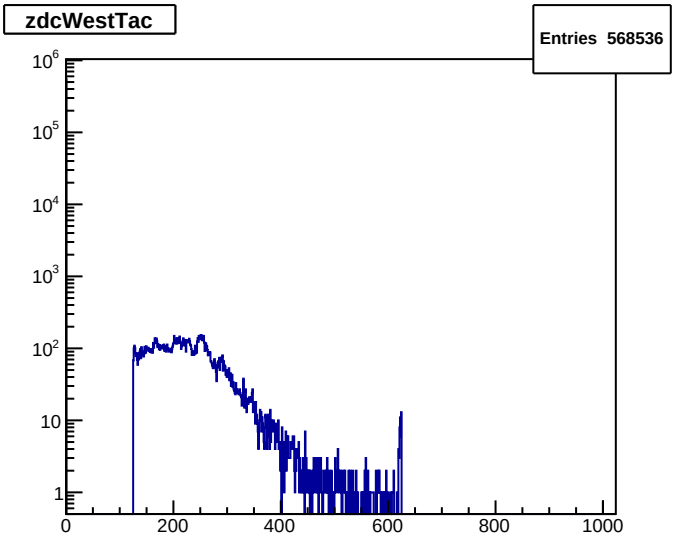
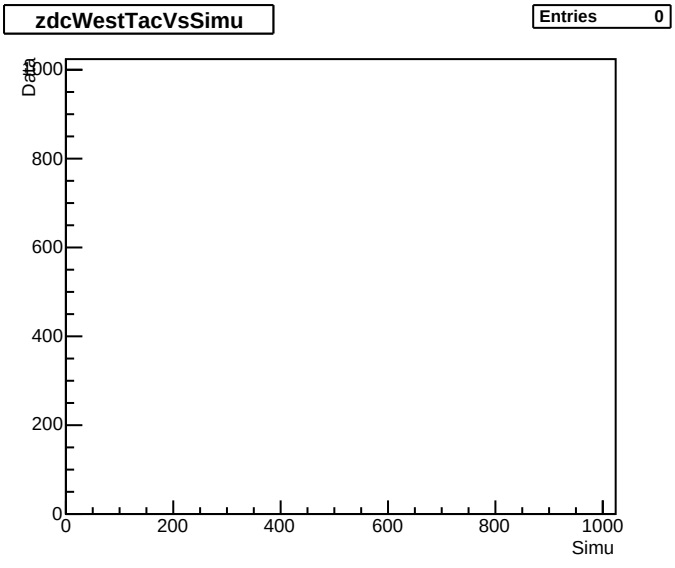
Entries 568536

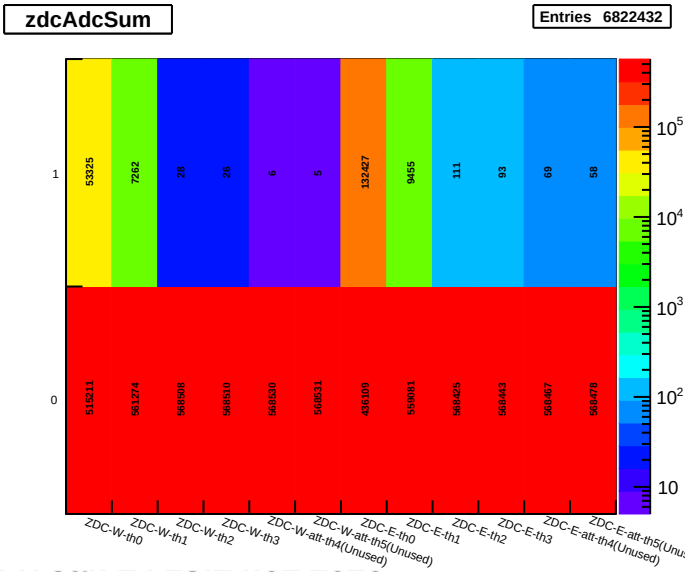

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

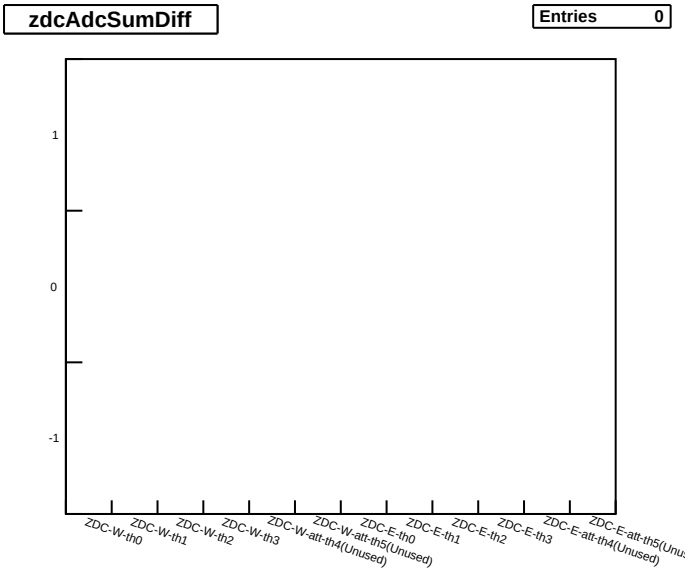

zdcEastTac
Entries 568536

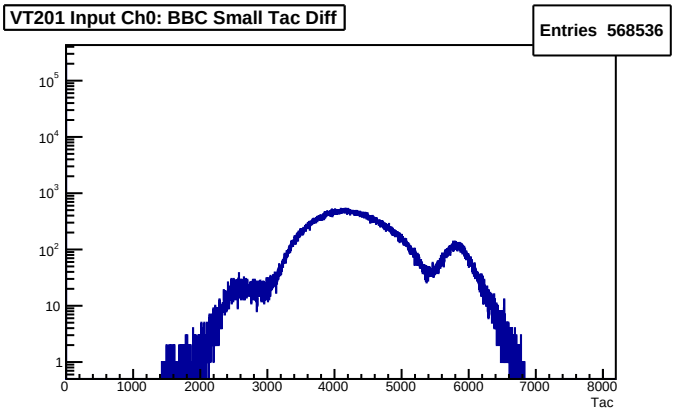

zdcEastTacVsSimu
Entries 0
Data
Simu

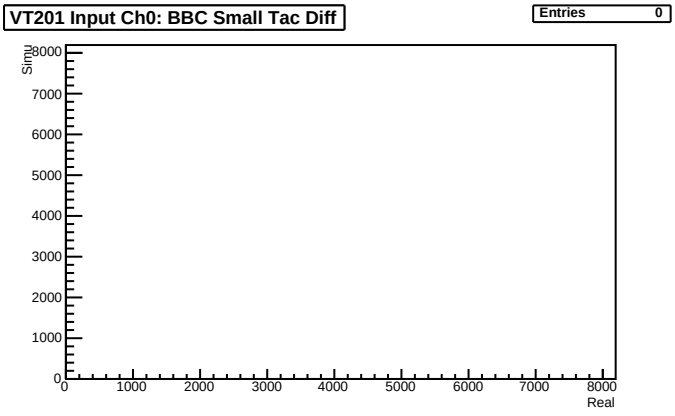

zdcWestTac
Entries 568536

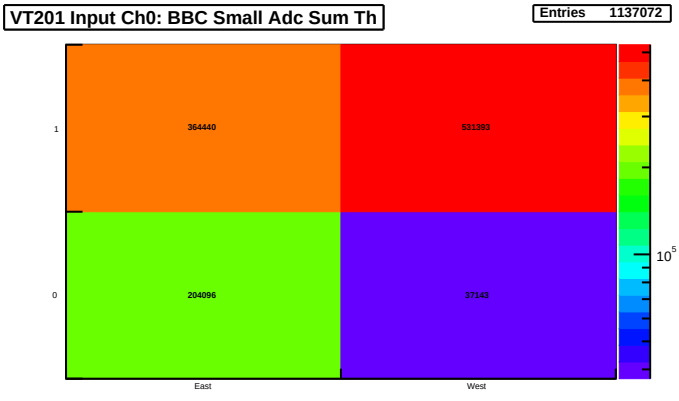

zdcWestTacVsSimu
Entries 0
Data
Simu

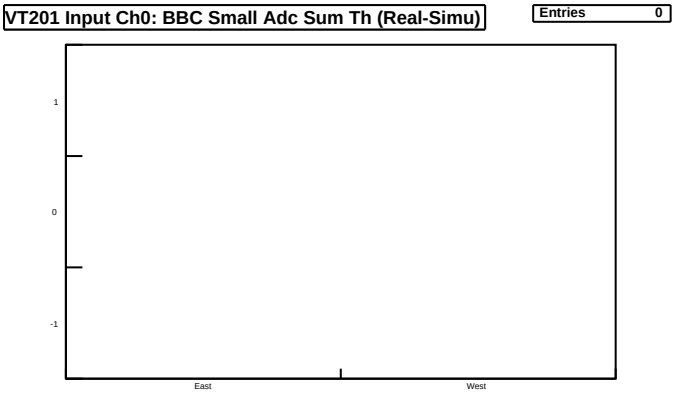

zdcAdcSum
Entries 6822432
53325
7262
28
26
6
5
132427
9455
111
93
69
58
515211
561274
568508
568510
568530
568531
436109
559081
568425
568443
568467
568478
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

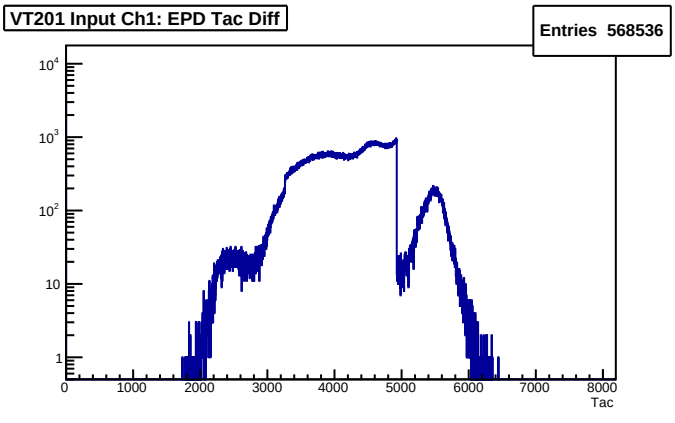

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

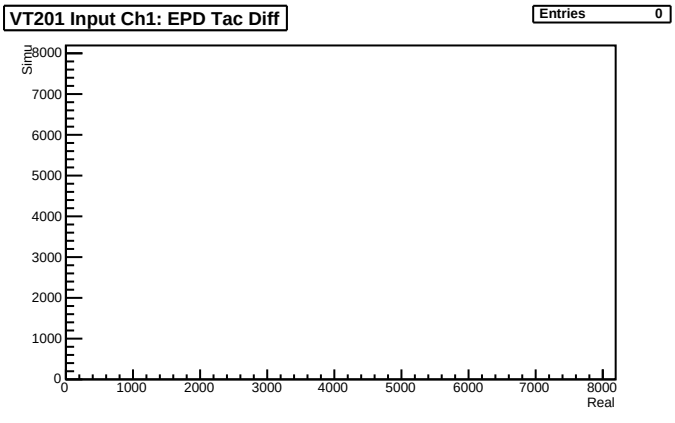

VT201 Input Ch0: BBC Small Tac Diff
Entries 568536
Tac

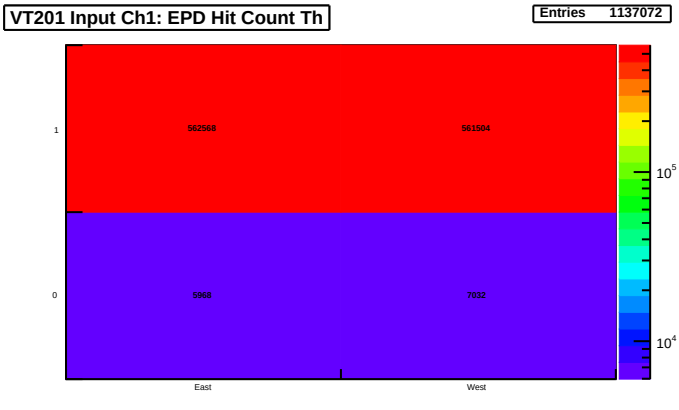

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

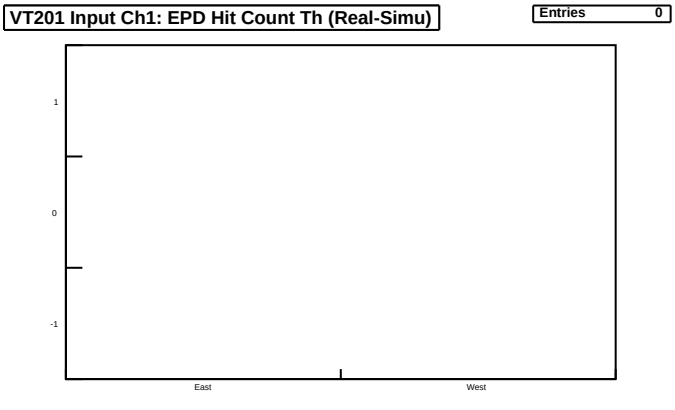

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1137072
364440
531393
204096
37143
East
West

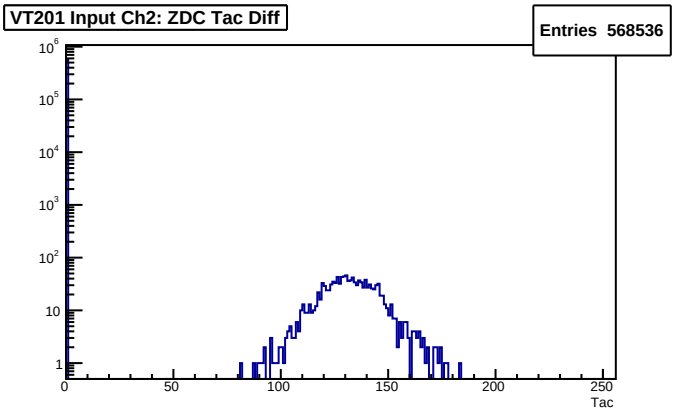

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

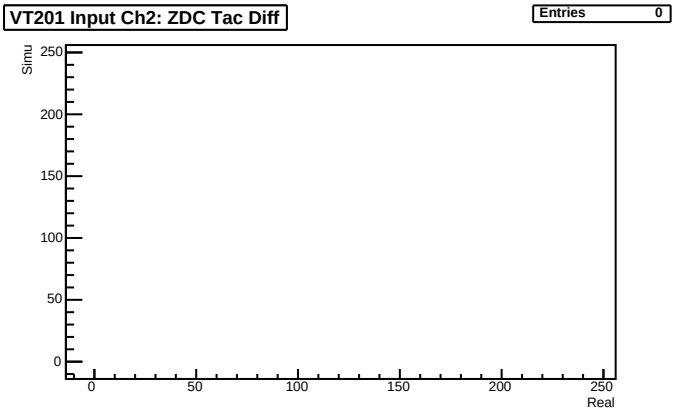

VT201 Input Ch1: EPD Tac Diff
Entries 568536
Tac

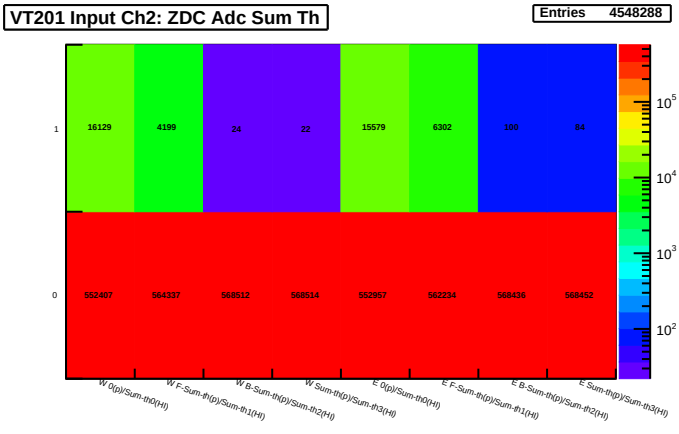

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

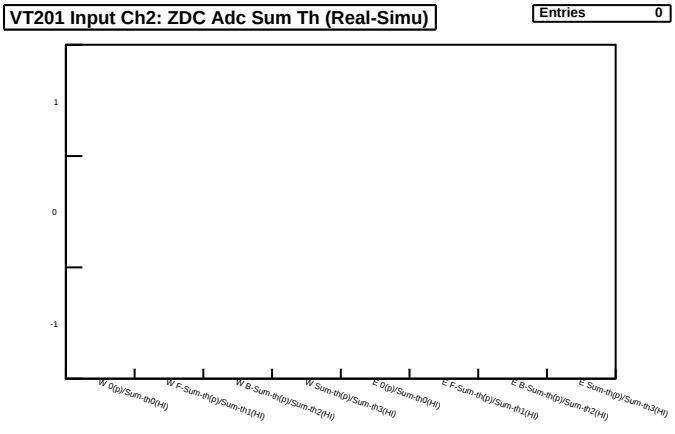

VT201 Input Ch1: EPD Hit Count Th
Entries 1137072
562568
561504
5968
7032
East
West

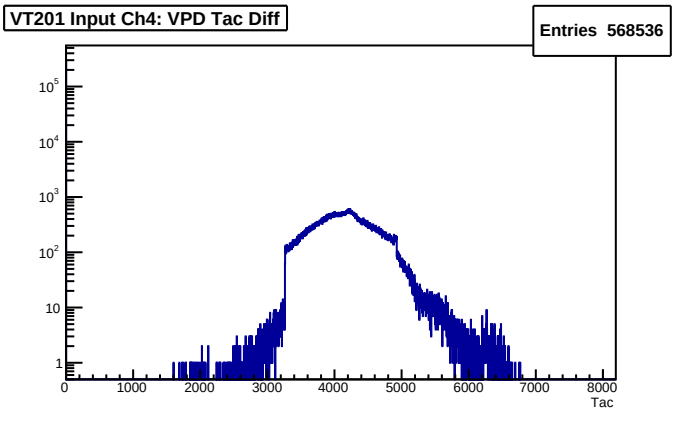

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

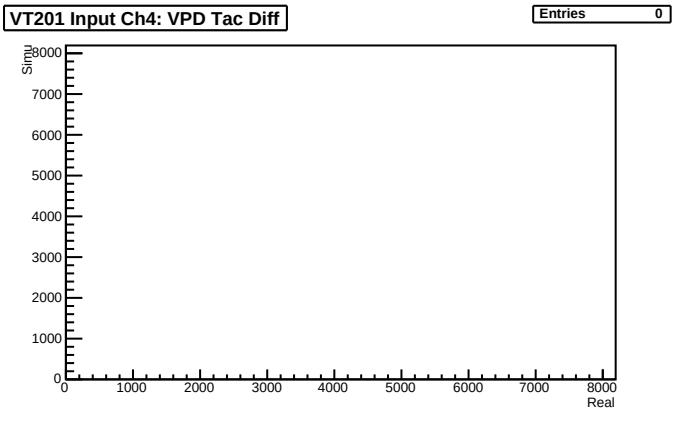

VT201 Input Ch2: ZDC Tac Diff
Entries 568536
Tac

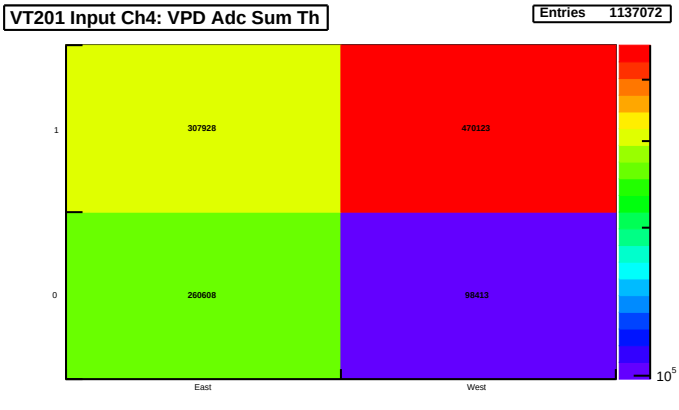

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

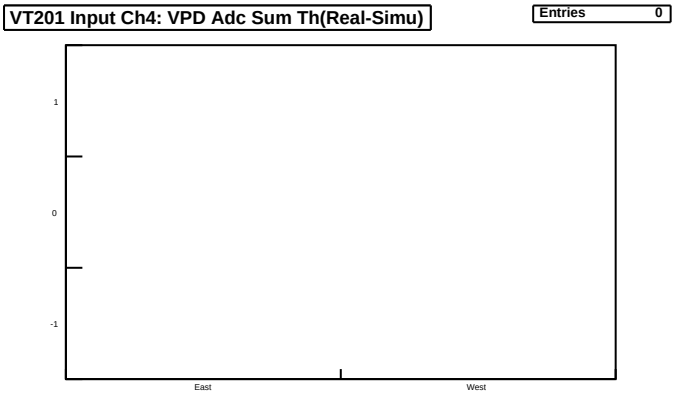

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4548288
16129
4199
24
22
15579
6302
100
84
552407
564337
568512
568514
552957
562234
568436
568452
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

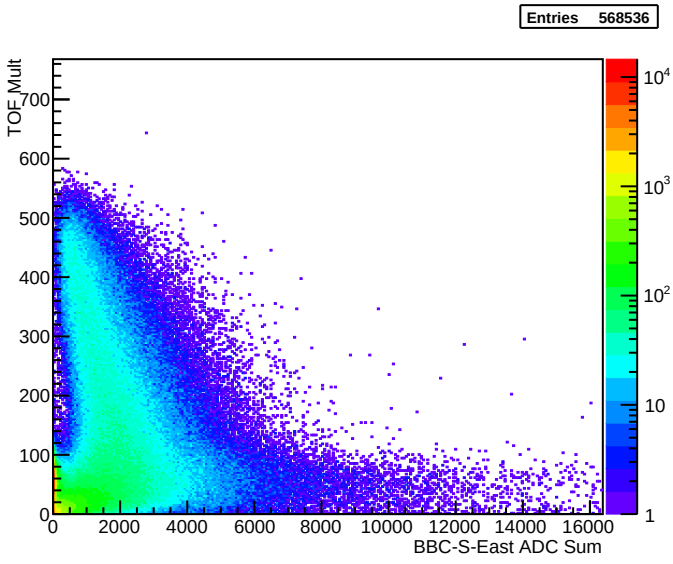

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

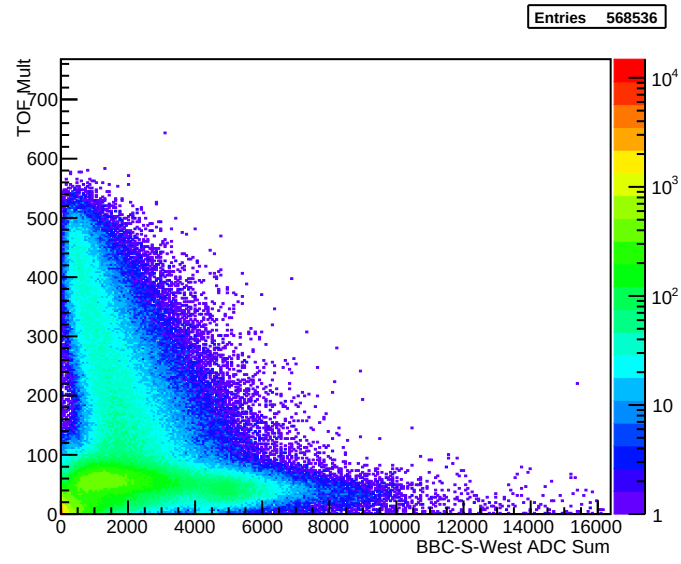

VT201 Input Ch4: VPD Tac Diff
Entries 568536
Tac

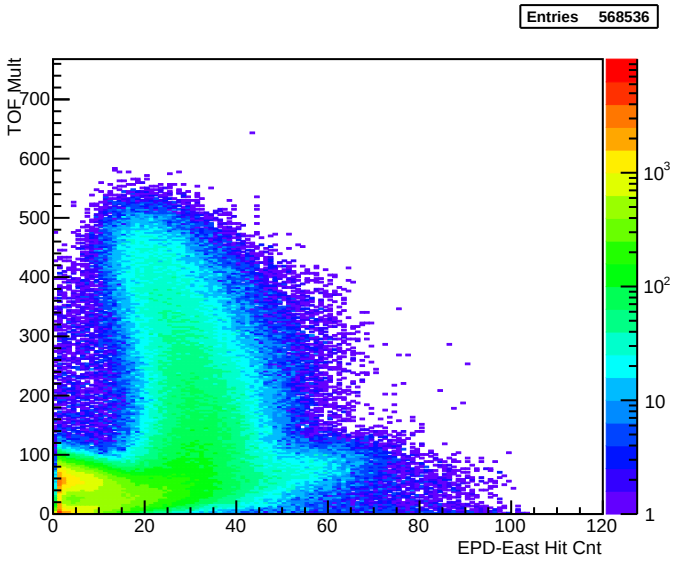

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

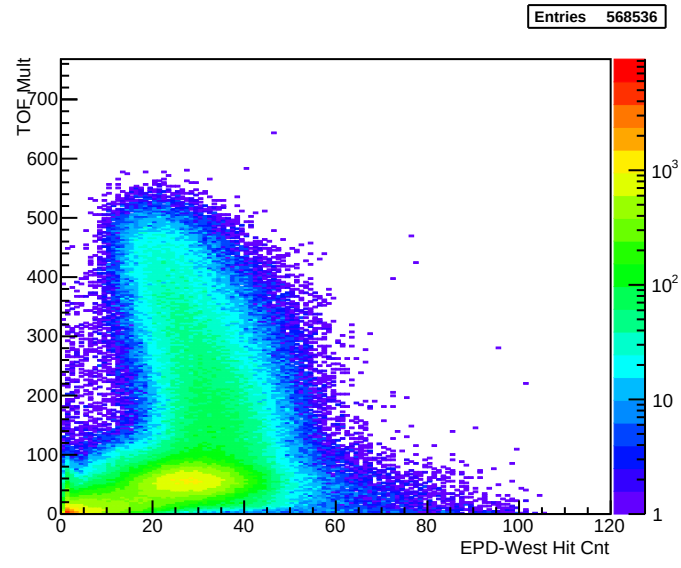

VT201 Input Ch4: VPD Adc Sum Th
Entries 1137072
307928
470123
260608
98413
East
West

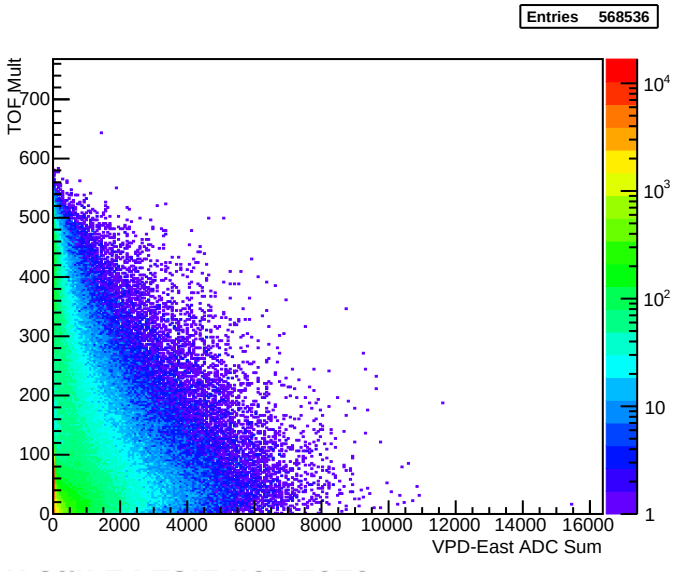

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

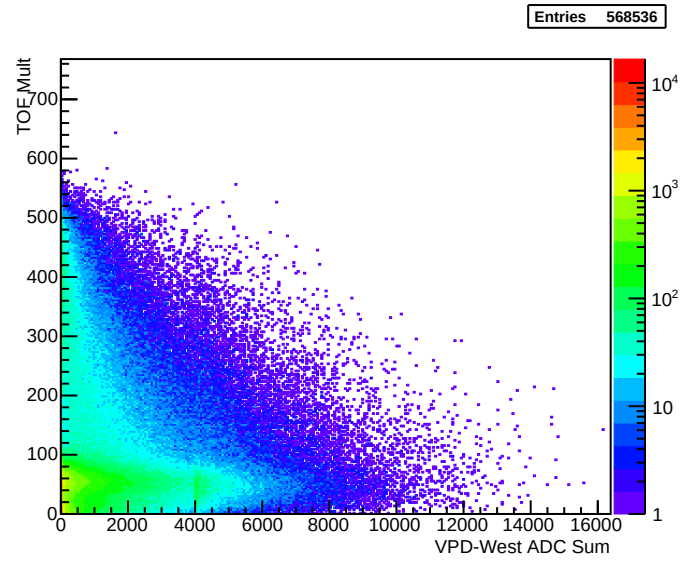

Entries 568536
TOF_Mult
BBC-S-East ADC Sum

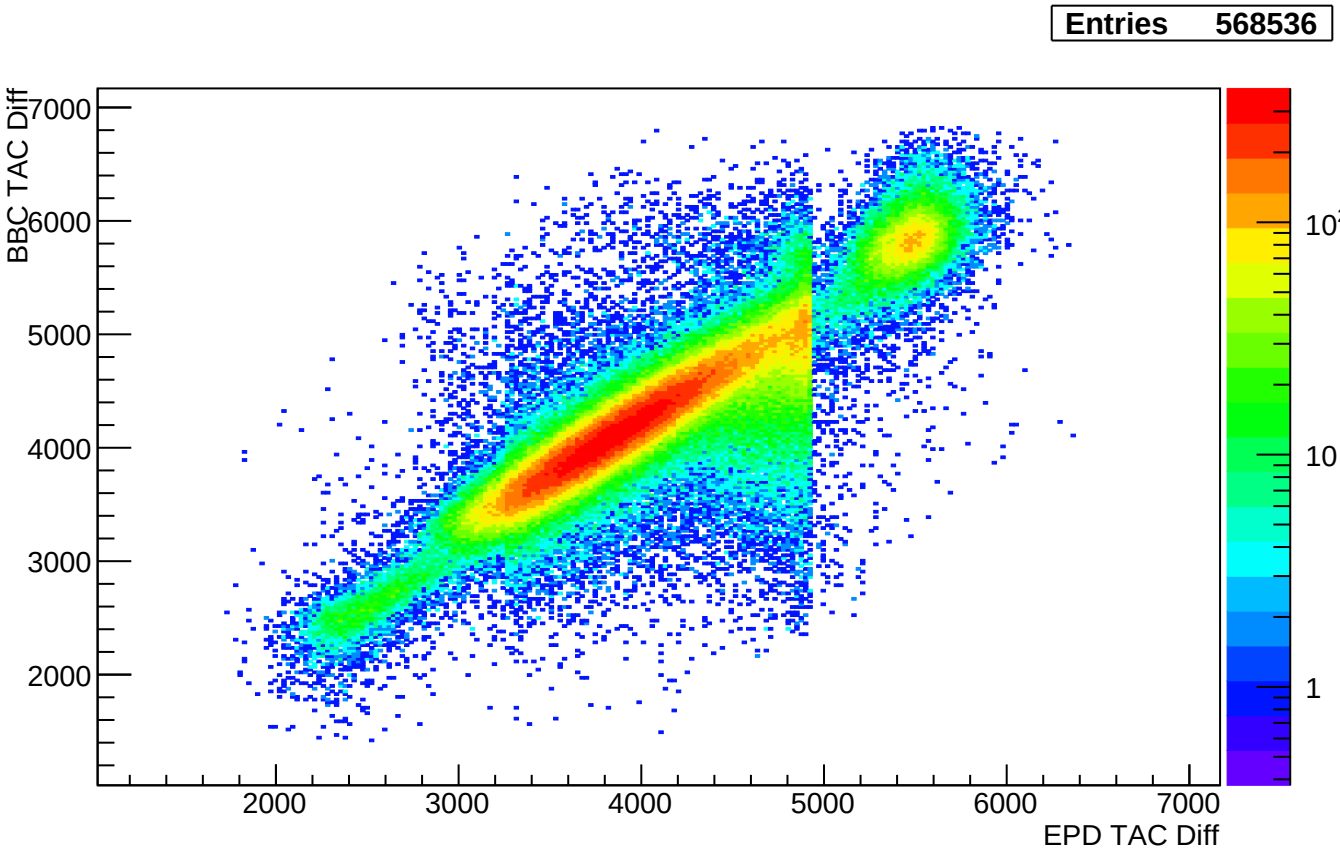

Entries 568536
TOF_Mult
BBC-S-West ADC Sum

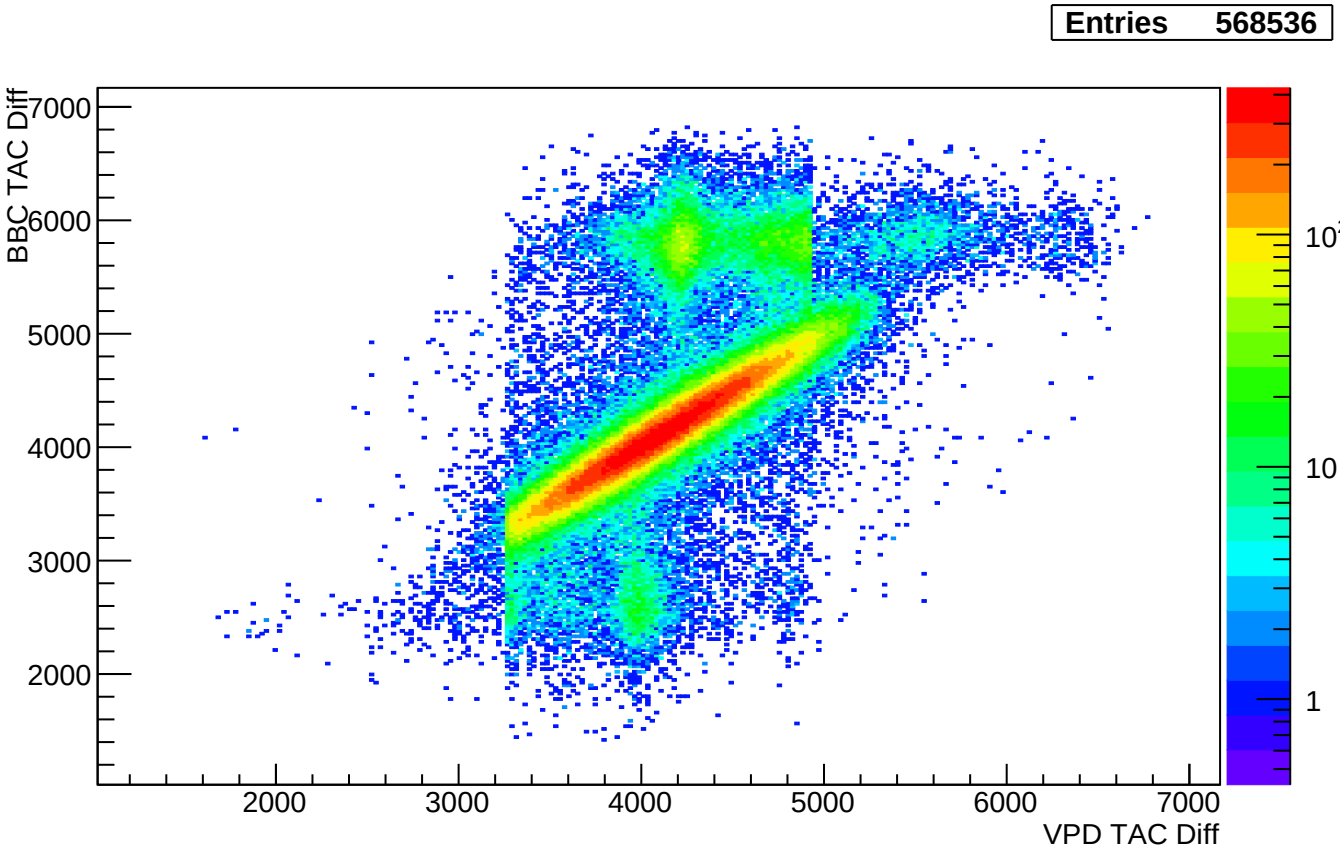

Entries 568536
TOF_Mult
EPD-East Hit Cnt

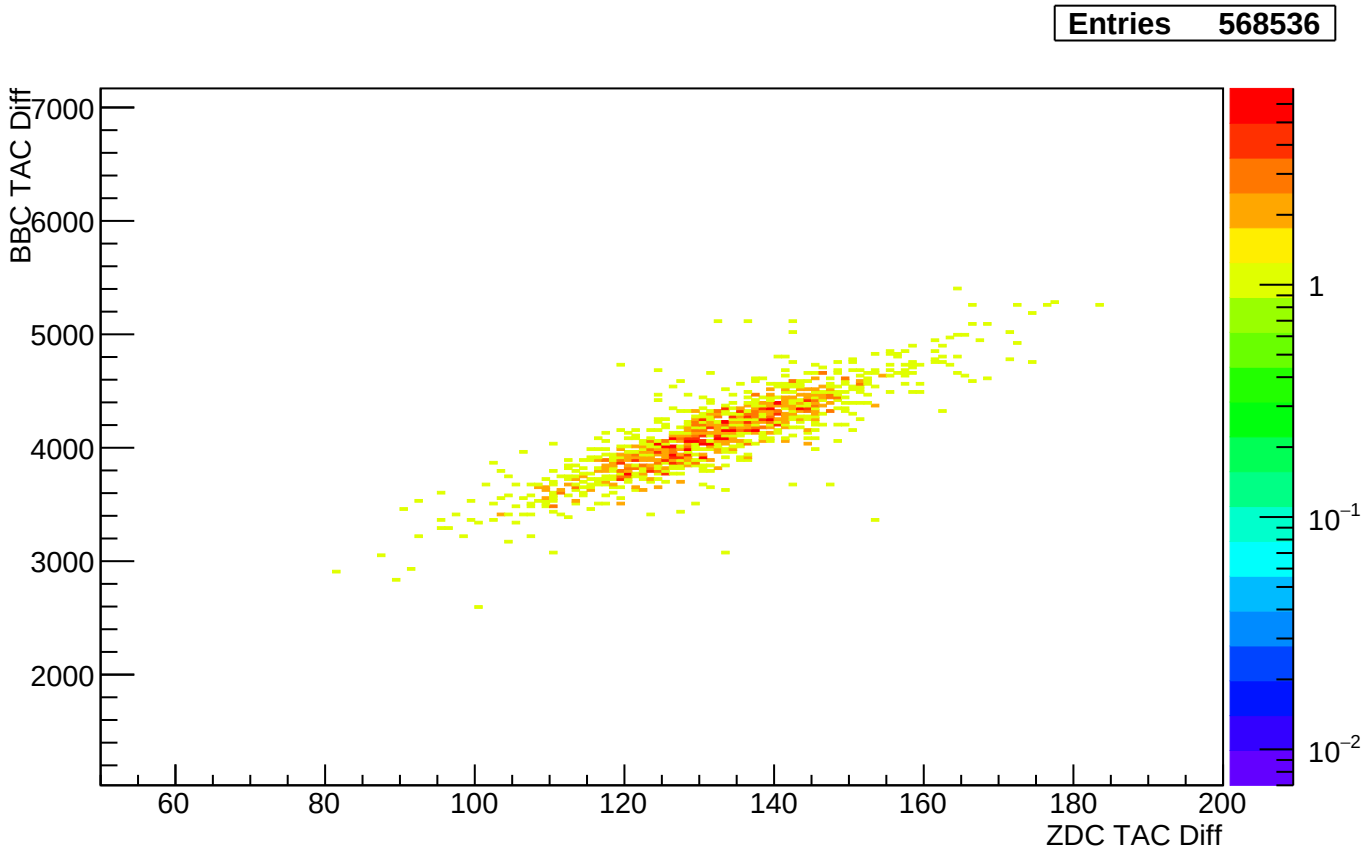

Entries 568536
TOF_Mult
EPD-West Hit Cnt

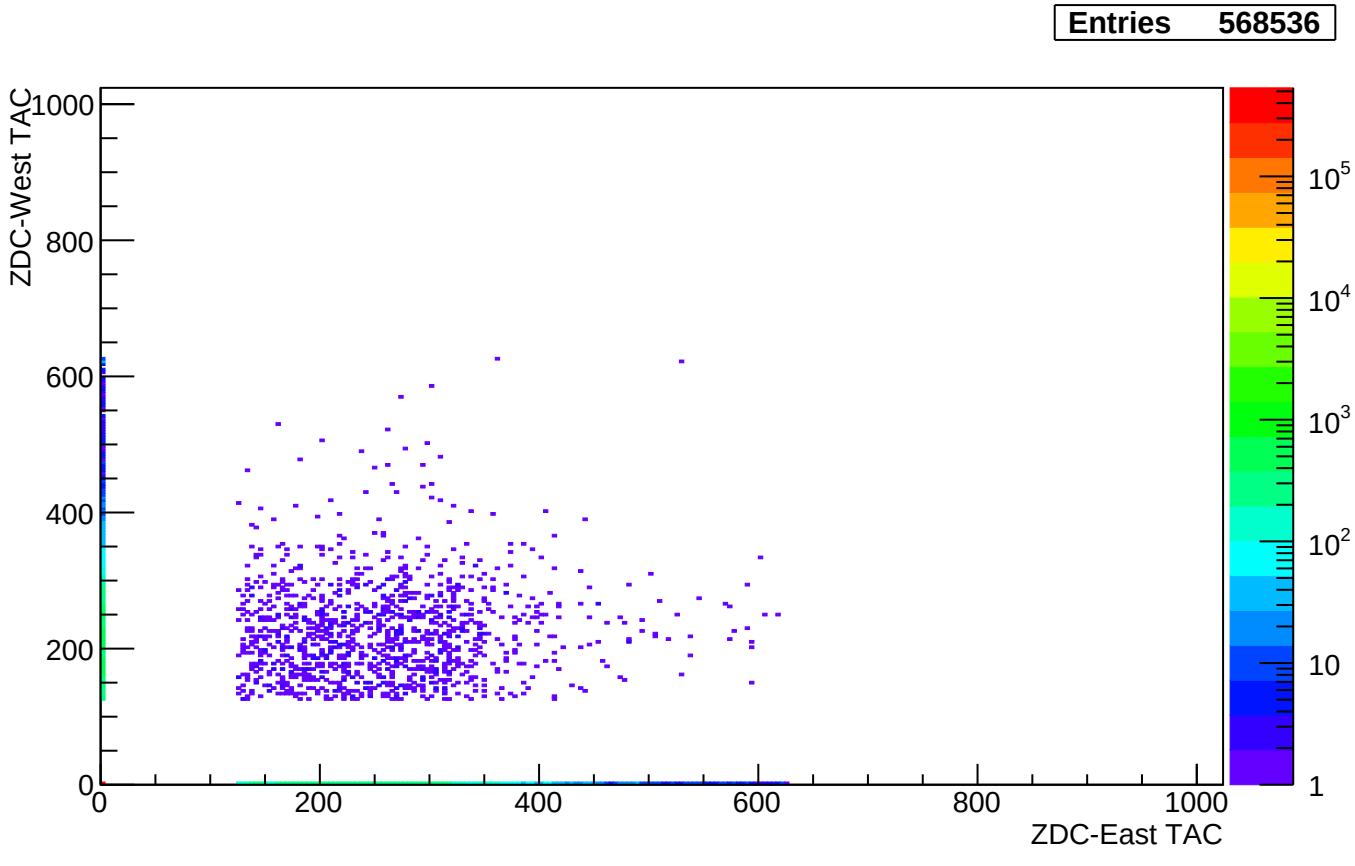

Entries 568536
TOF_Mult
VPD-East ADC Sum

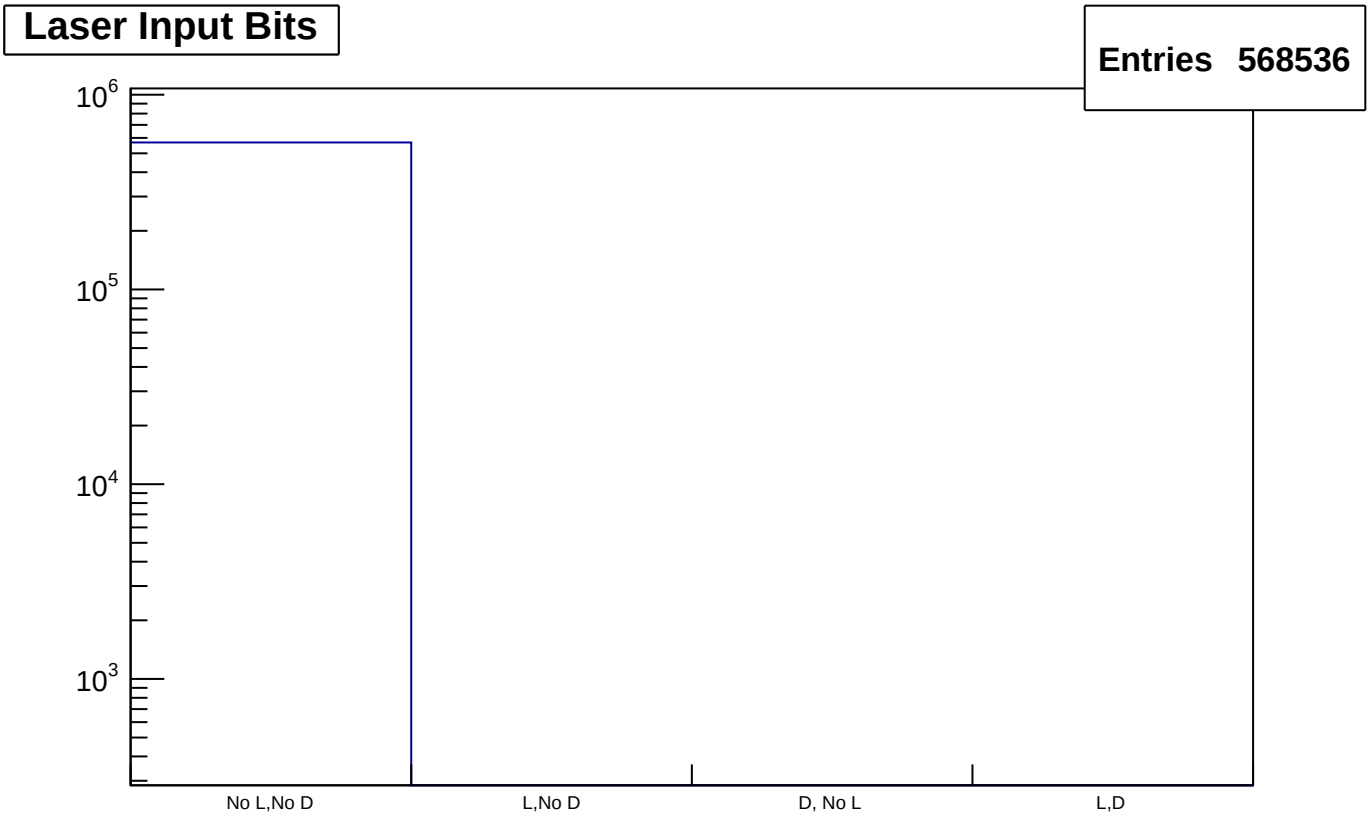

Entries 568536
TOF_Mult
VPD-West ADC Sum

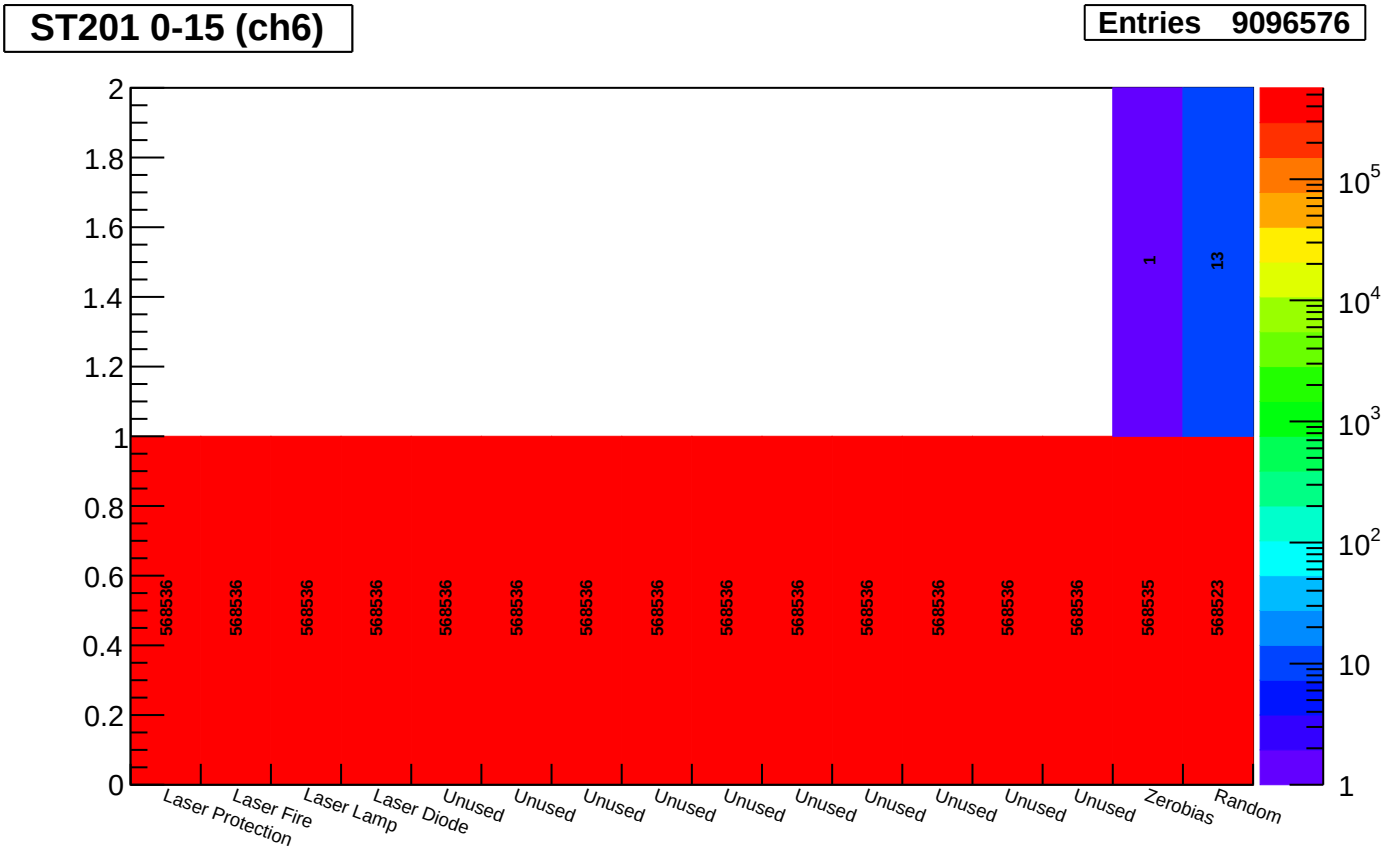

Entries 568536
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1

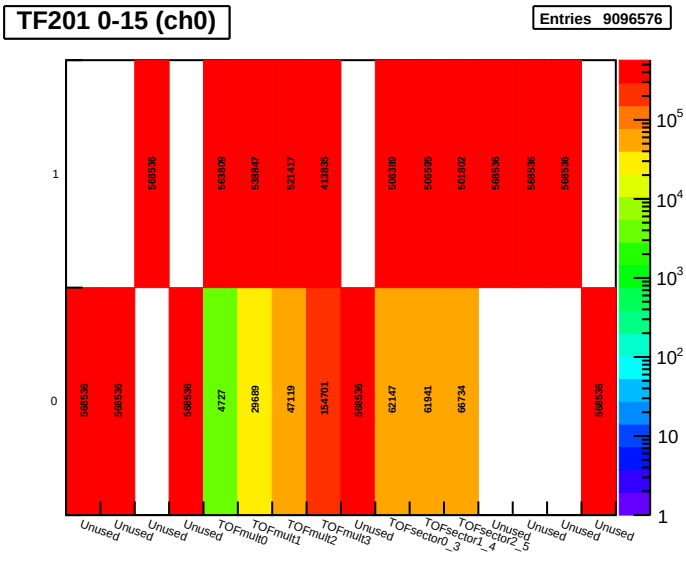

Entries 568536
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

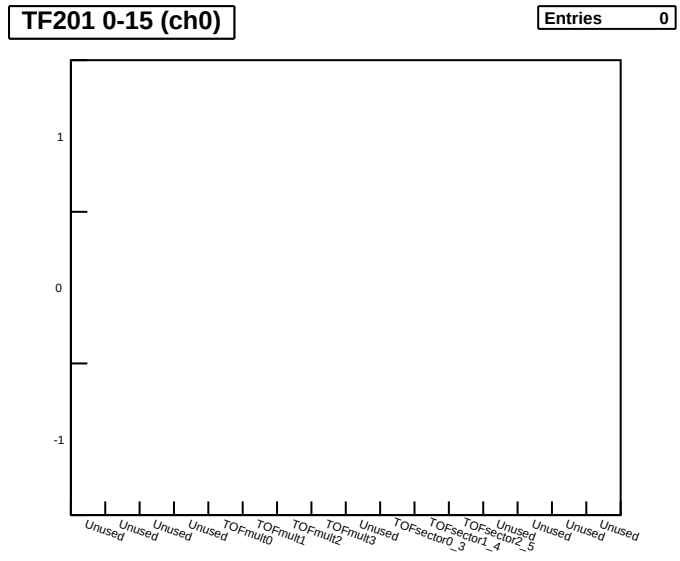

Entries 568536
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}

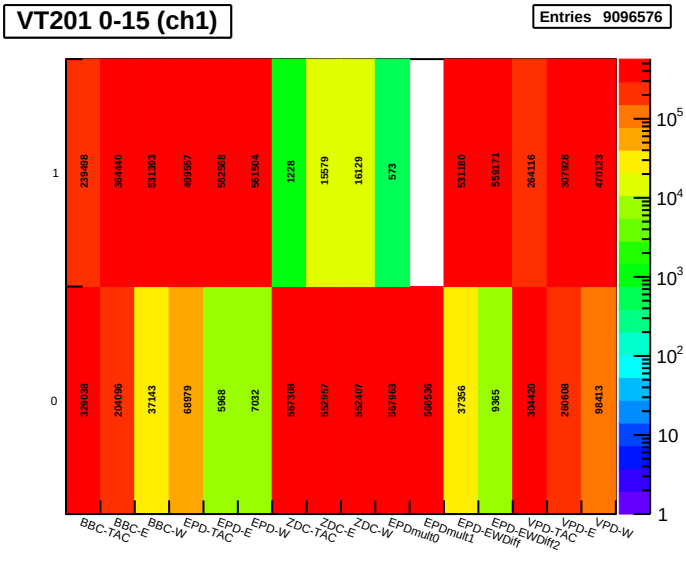

Entries 568536
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

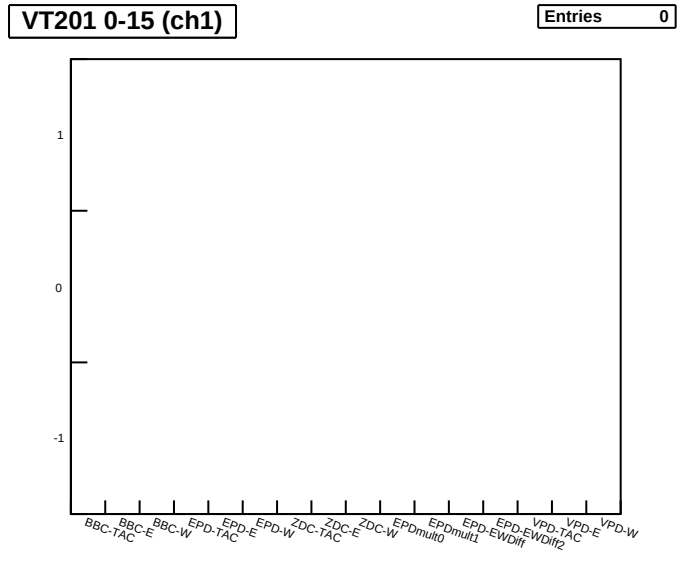

Laser Input Bits
Entries 568536
10^6
10^5
10^4
10^3
No L,No D
L,No D
D, No L
L,D

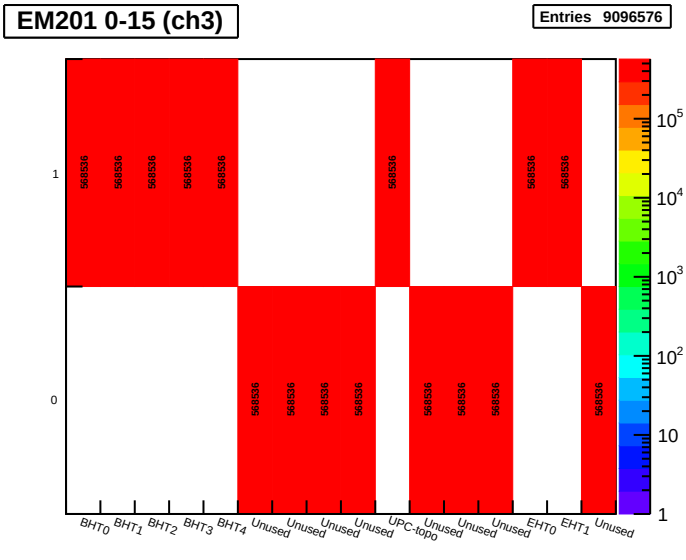

ST201 0-15 (ch6)
Entries 9096576
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
568536
568536
568536
568536
568536
568536
568536
568536
568536
568536
568536
568536
568536
568536
568535
568523
1
13
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

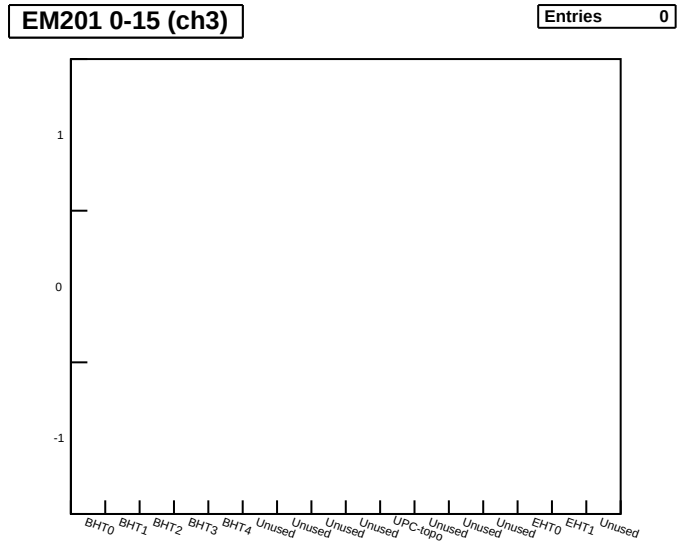

TF201 0-15 (ch0)
Entries 9096576
1
0
568536 568536 568536 568536 563809 538847 521417 413835 506389 506595 501602 568536 568536 568536
568536 568536 568536 4727 29689 47119 154701 568536 62147 61941 66734 568536
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused
10^5 10^4 10^3 10^2 10 1


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


VT201 0-15 (ch1)
Entries 9096576
1
0
239488 364440 531393 499557 562568 561504 1228 15579 16129 573 531180 559171 264116 307928 470123
329038 204096 37143 68979 5968 7032 567308 552957 552407 567963 568536 37356 9365 304420 260608 98413
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 9096576
1
0
568536 568536 568536 568536 568536 568536 568536 568536 568536
568536 568536 568536 568536 568536 568536 568536 568536
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