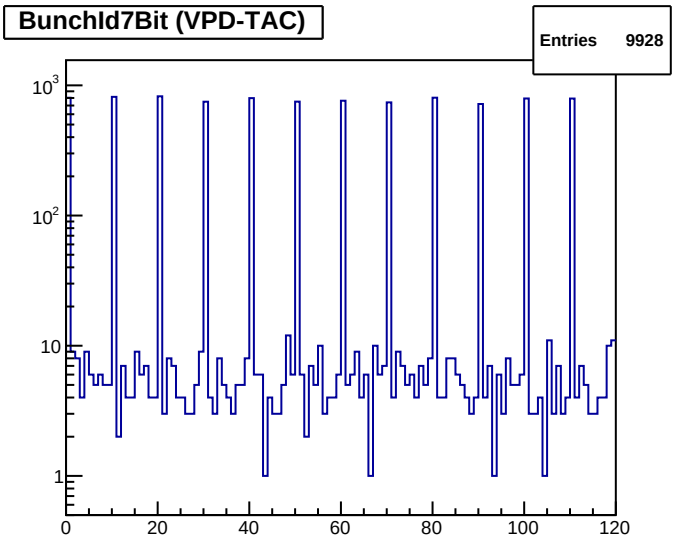
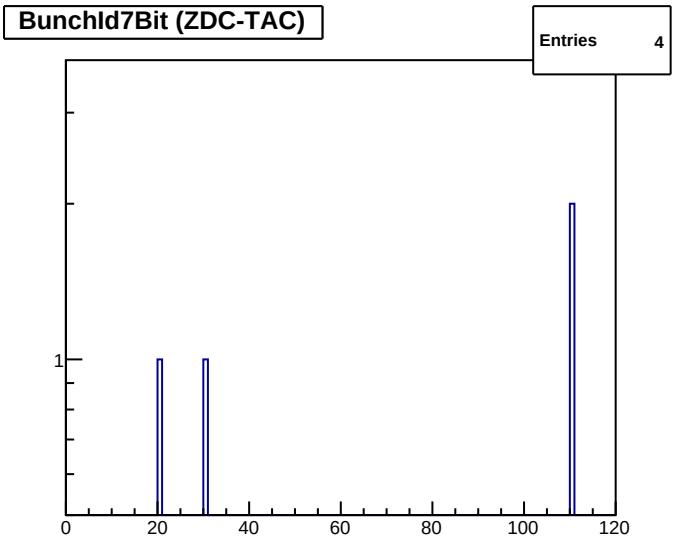
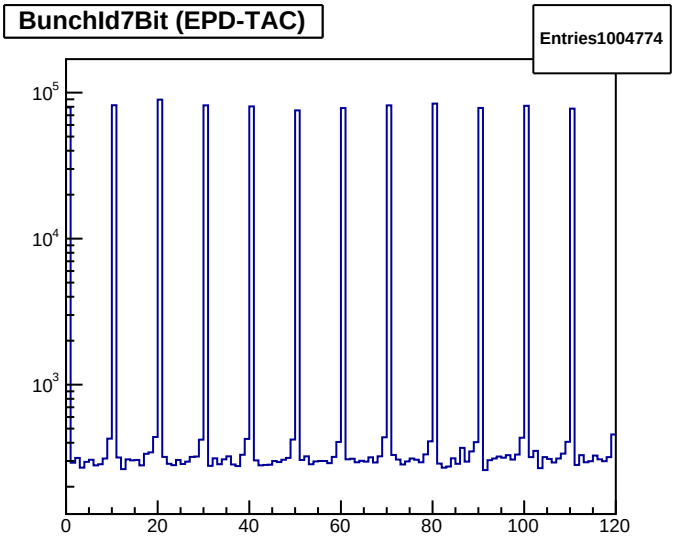
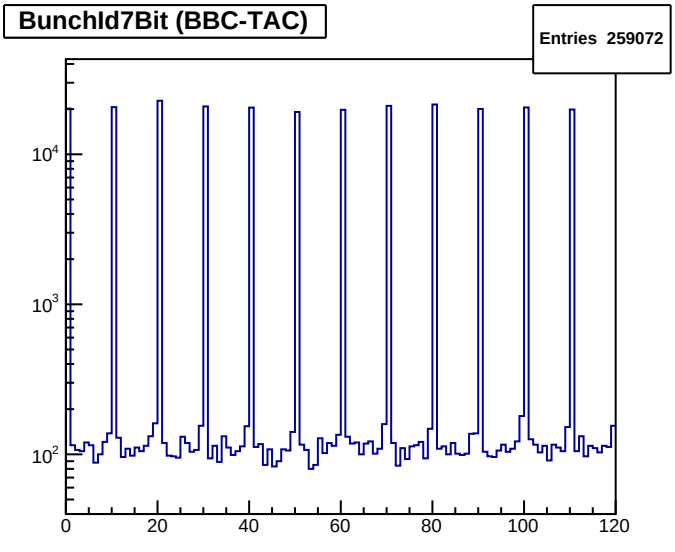
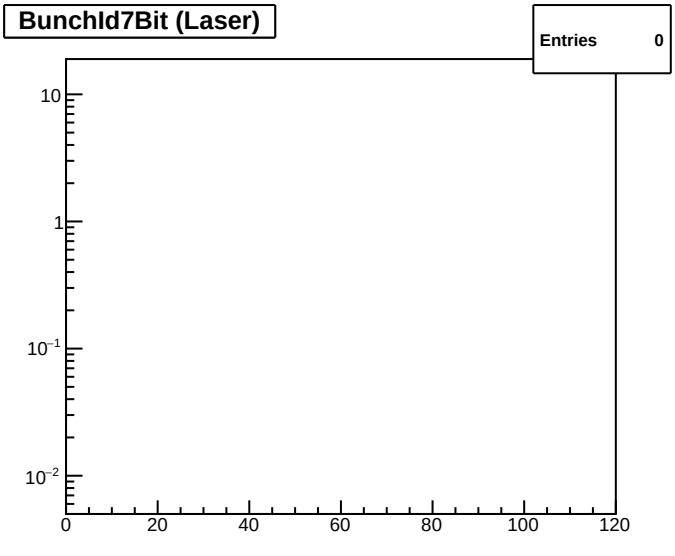
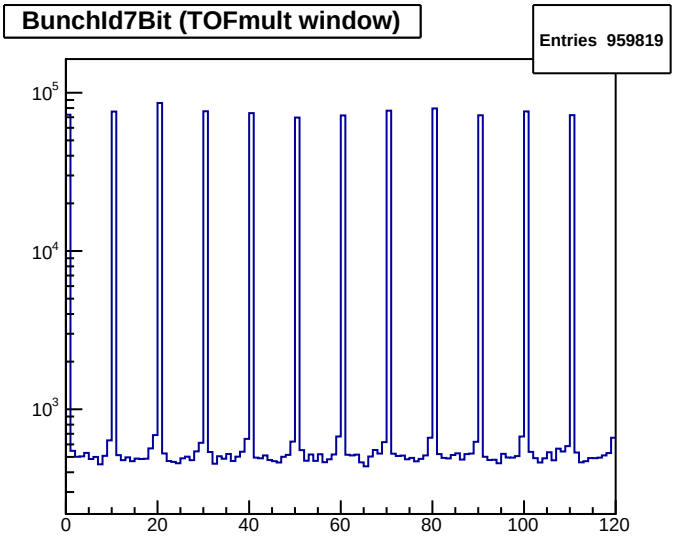

BunchId7Bit (VPD-TAC)
Entries 9928

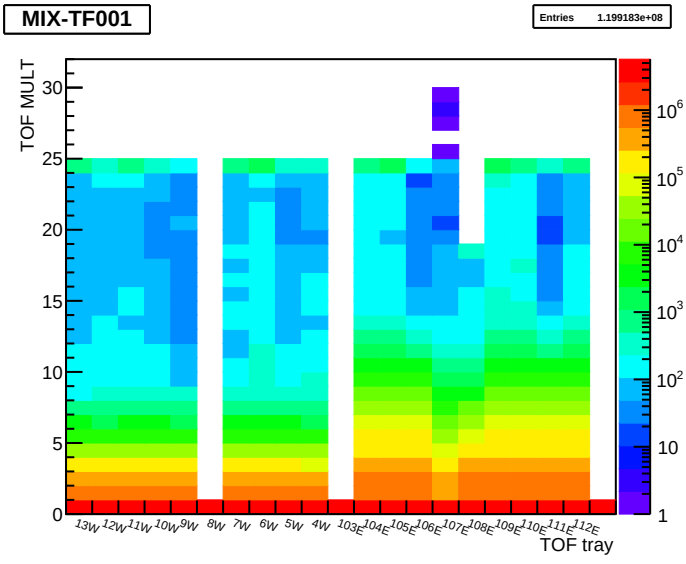

BunchId7Bit (ZDC-TAC)
Entries 4

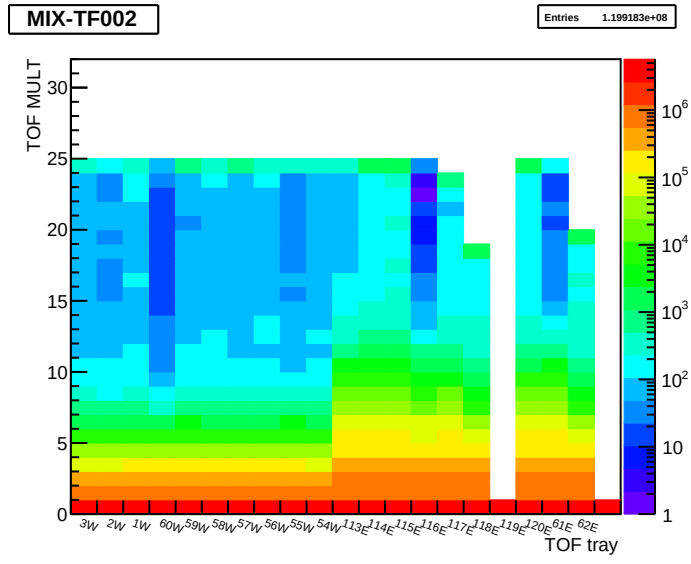

BunchId7Bit (EPD-TAC)
Entries1004774

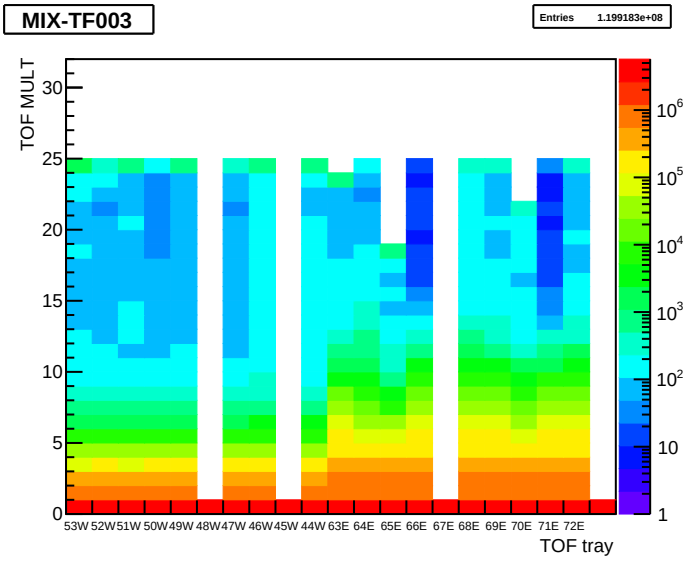

BunchId7Bit (BBC-TAC)
Entries 259072

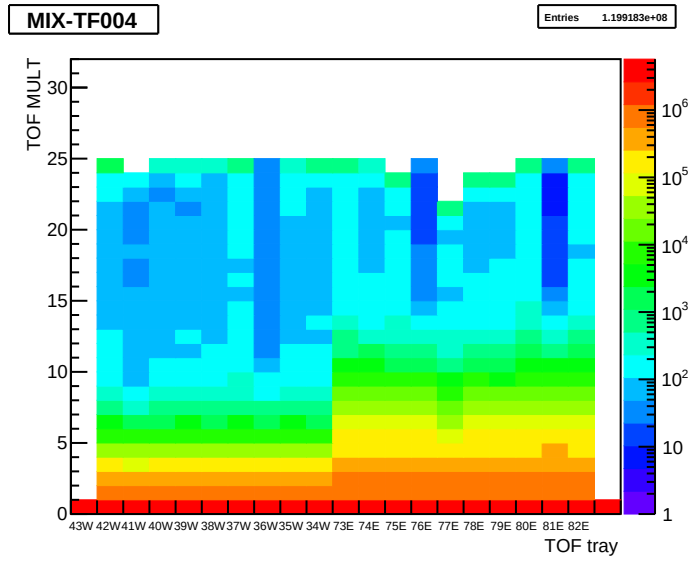

BunchId7Bit (Laser)
Entries 0

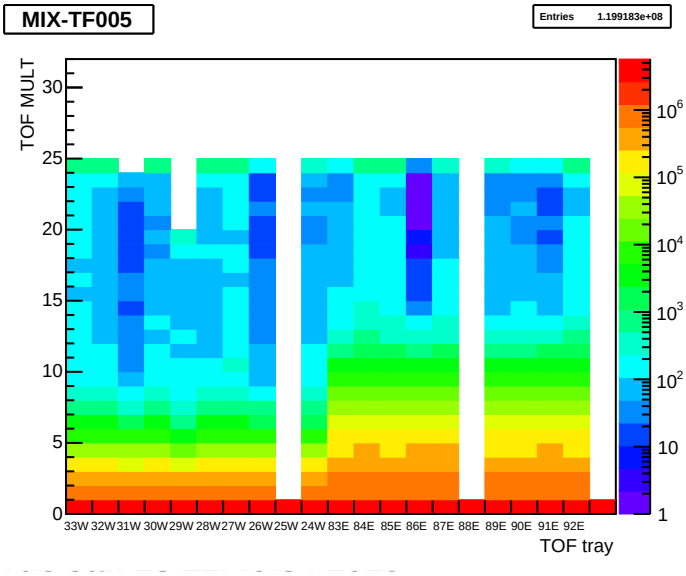

BunchId7Bit (TOFmult window)
Entries 959819

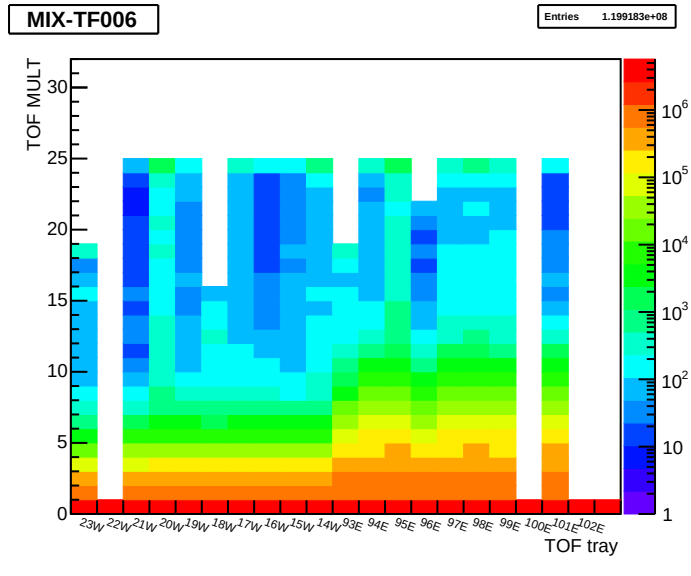

MIX-TF001
Entries 1.199183e+08
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

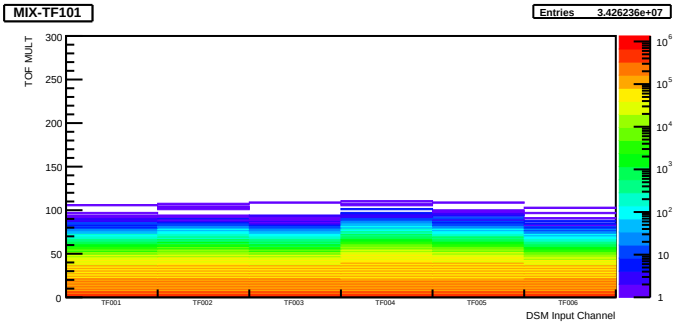

MIX-TF002
Entries 1.199183e+08
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

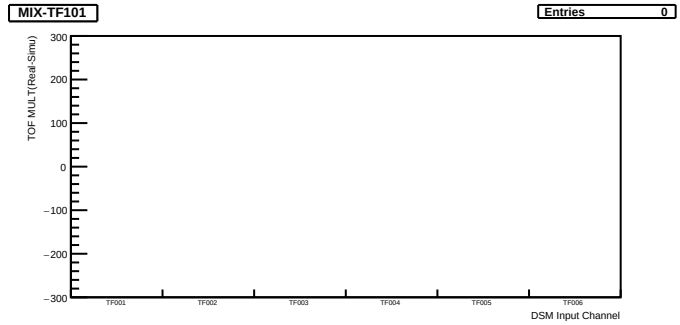

MIX-TF003
Entries 1.199183e+08
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

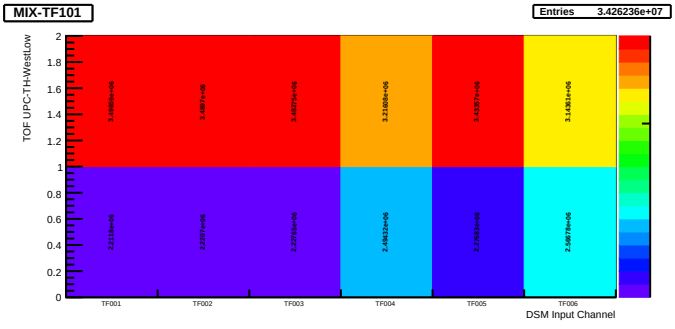

MIX-TF004
Entries 1.199183e+08
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

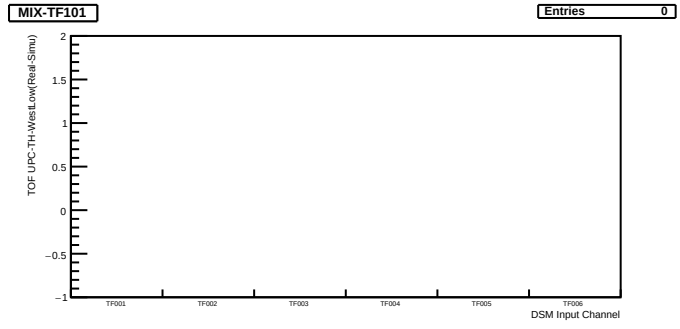

MIX-TF005
Entries 1.199183e+08
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

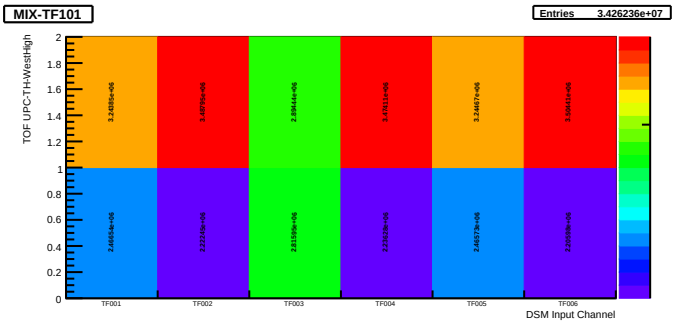

MIX-TF006
Entries 1.199183e+08
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

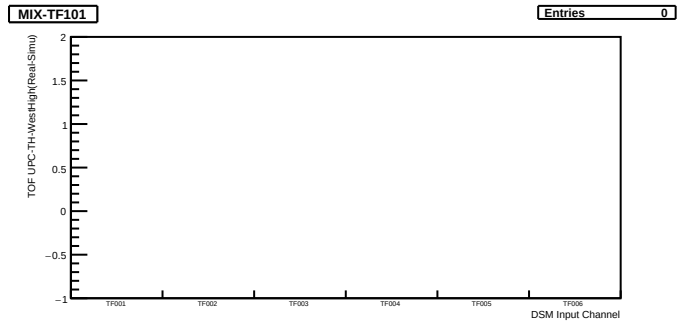

MIX-TF101
Entries 3.426236e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

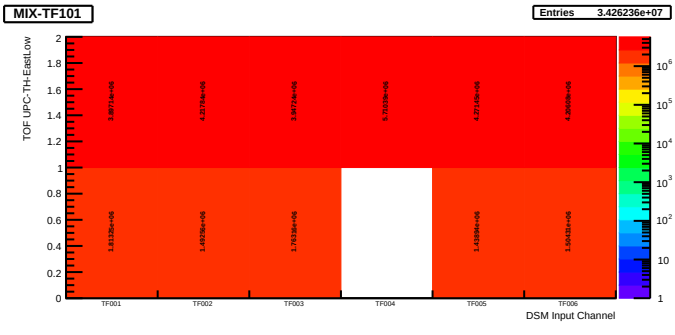

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

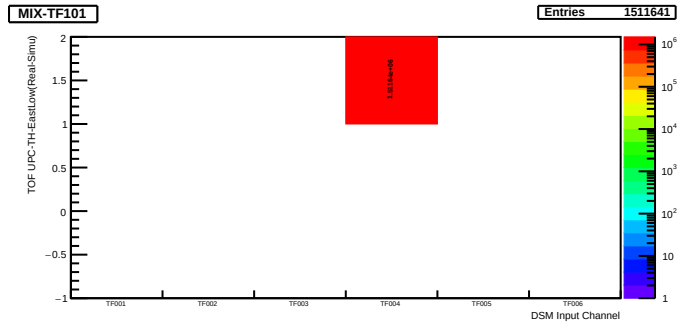

MIX-TF101
Entries 3.426236e+07
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

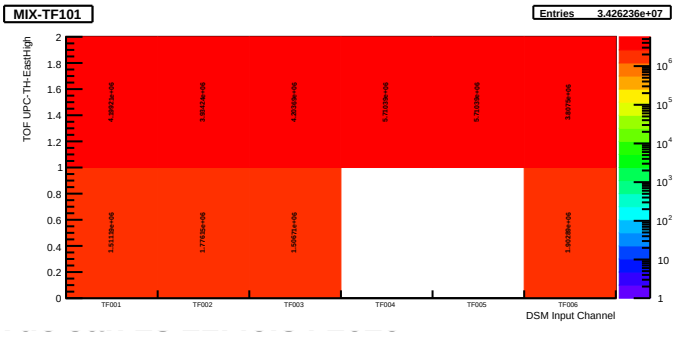

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

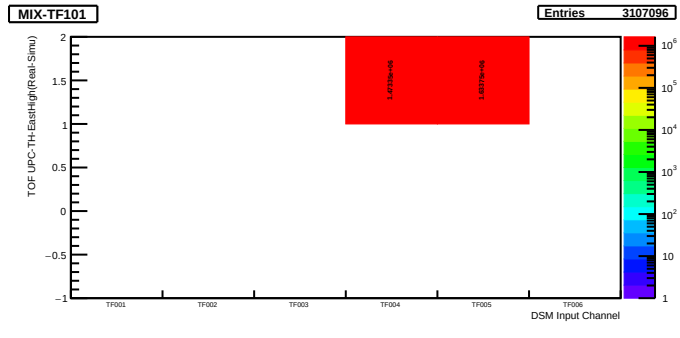

MIX-TF101
Entries 3.426236e+07
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

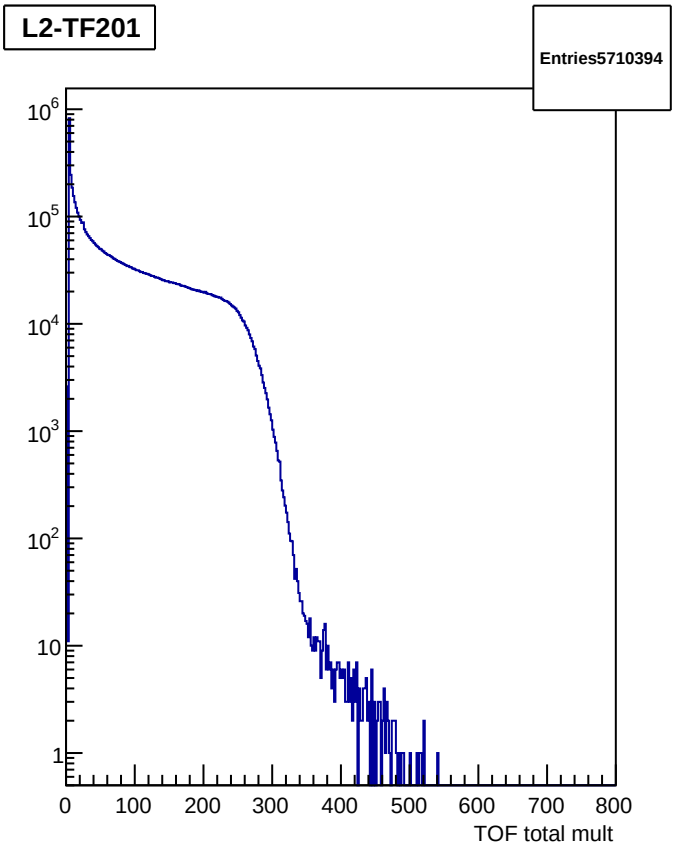

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

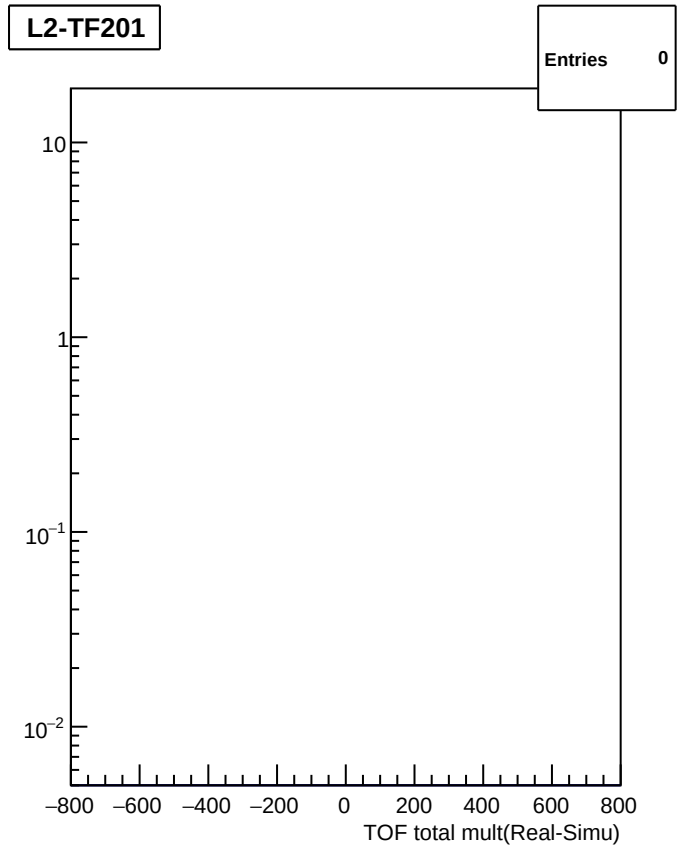

MIX-TF101
Entries 3.426236e+07
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

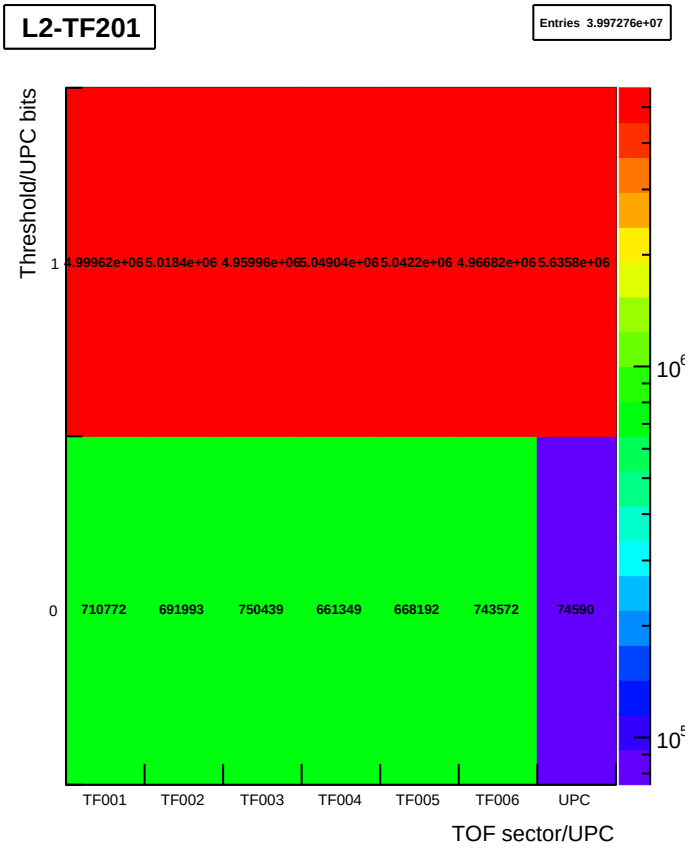

MIX-TF101
Entries 1511641
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

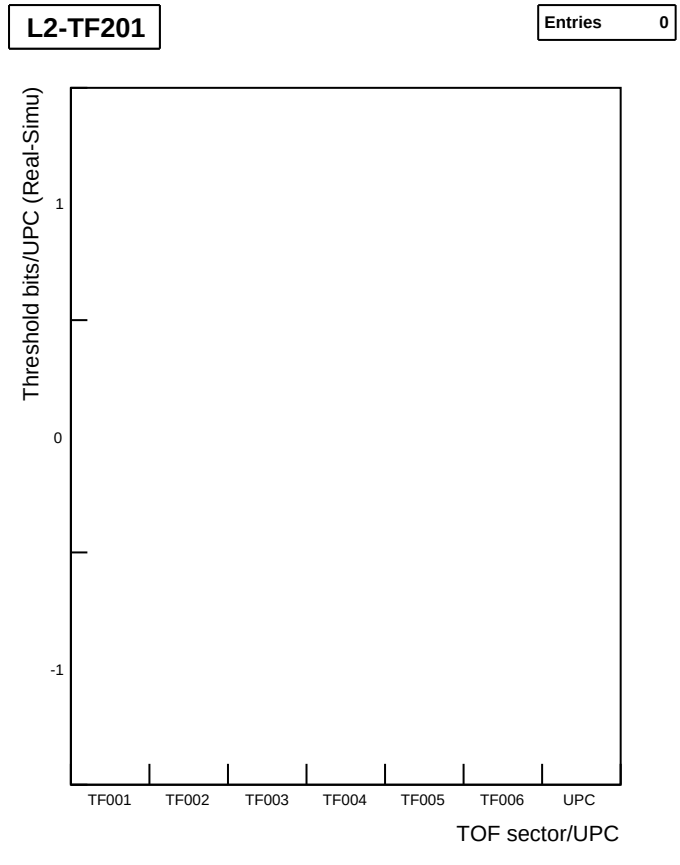

MIX-TF101
Entries 3.426236e+07
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

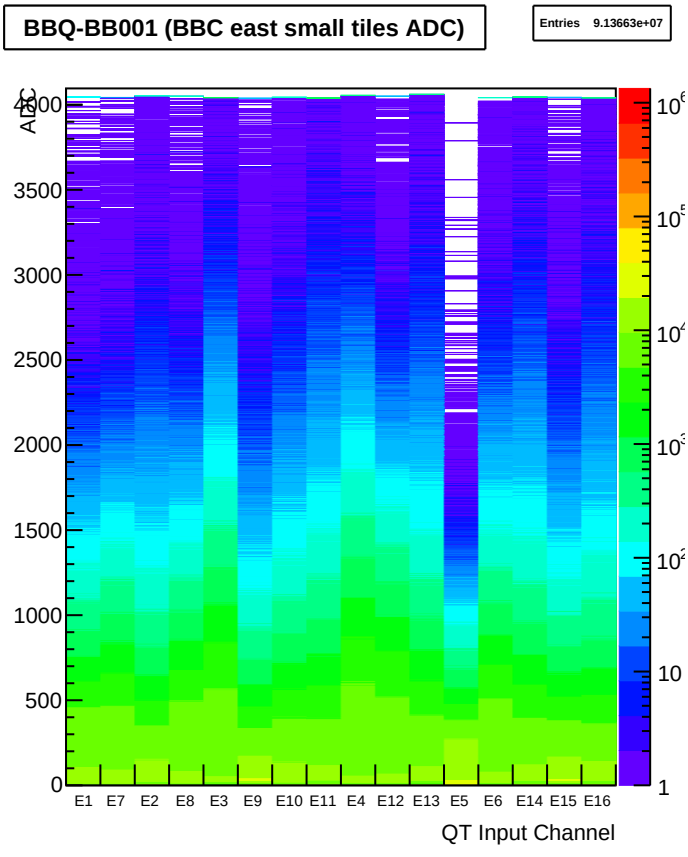

MIX-TF101
Entries 3107096
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

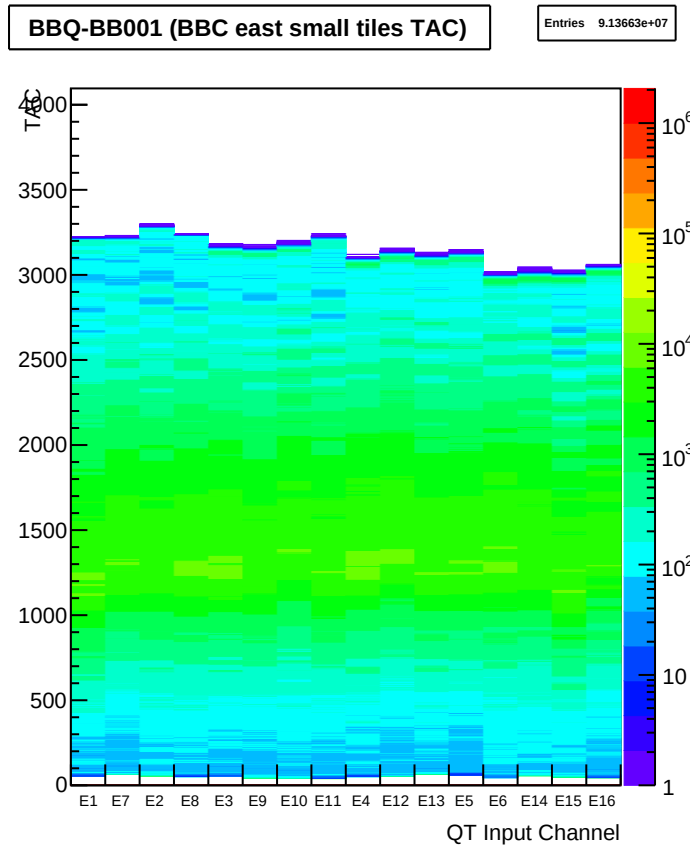

L2-TF201
Entries5710394
TOF total mult

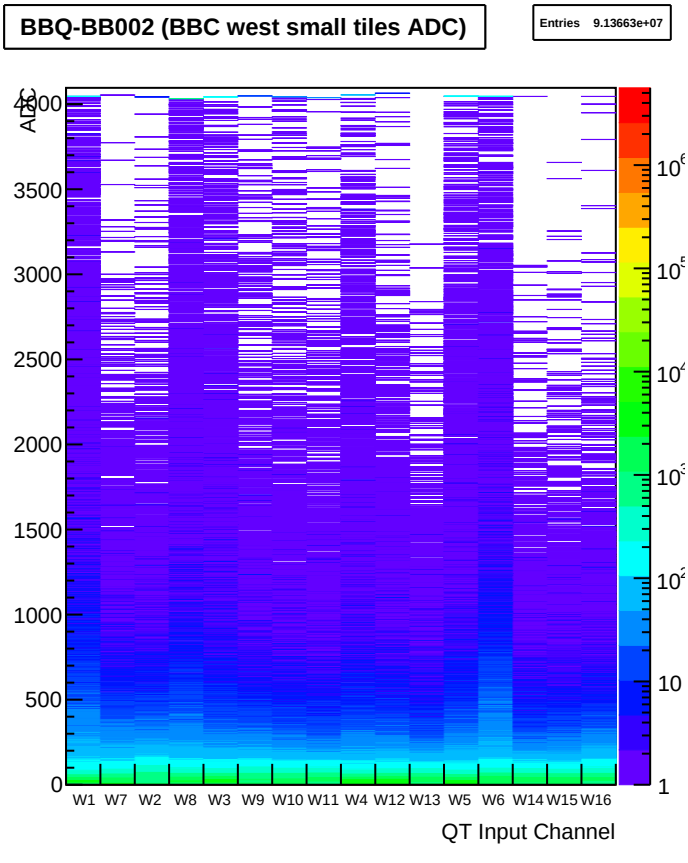

L2-TF201
Entries 0
TOF total mult(Real-Simu)

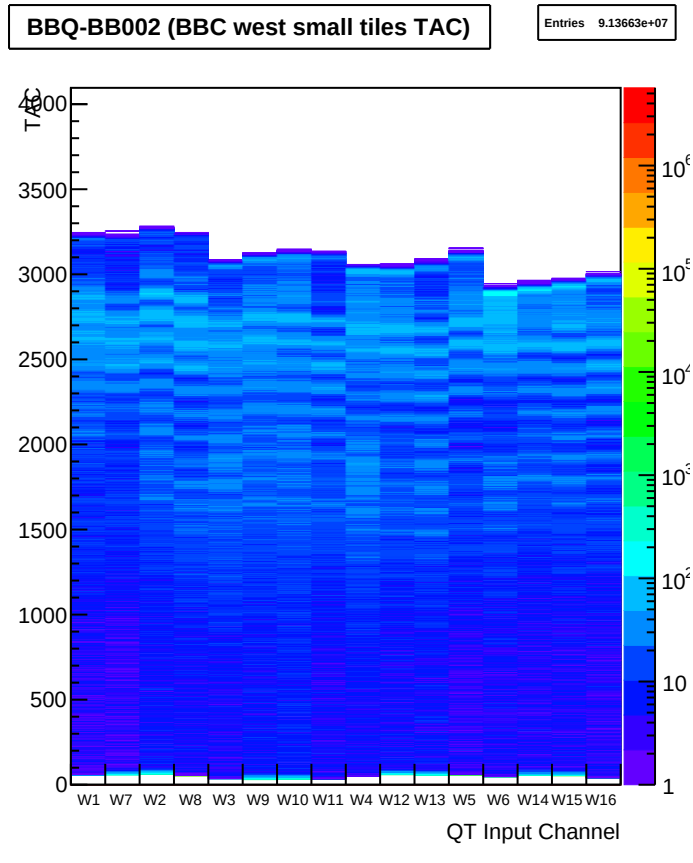

L2-TF201
Entries 3.997276e+07
Threshold/UPC bits
4.99962e+06 5.0184e+06 4.95996e+06 5.04904e+06 5.0422e+06 4.96682e+06 5.6358e+06
710772 691993 750439 661349 668192 743572 74590
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

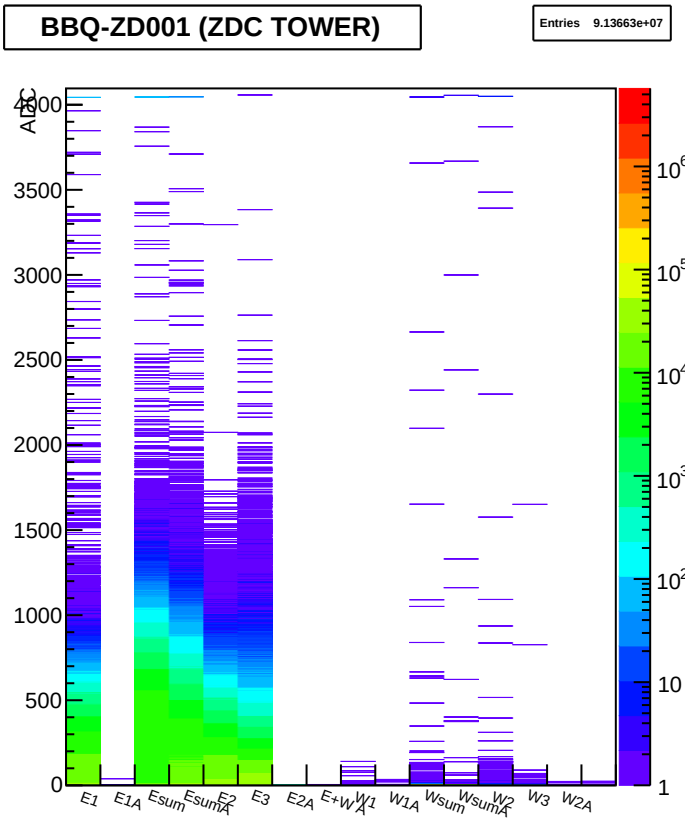

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

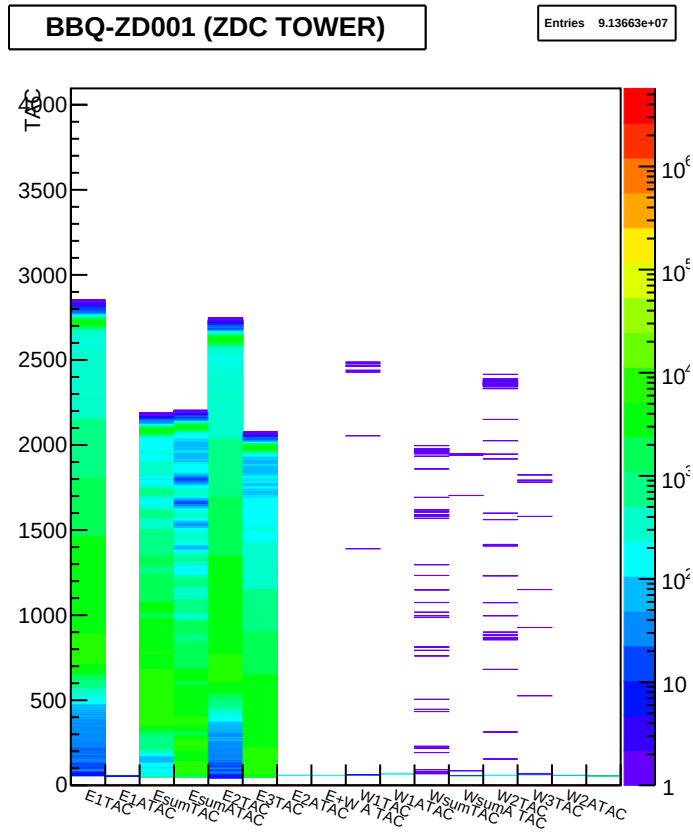

BBQ-BB001 (BBC east small tiles ADC)
Entries 9.13663e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

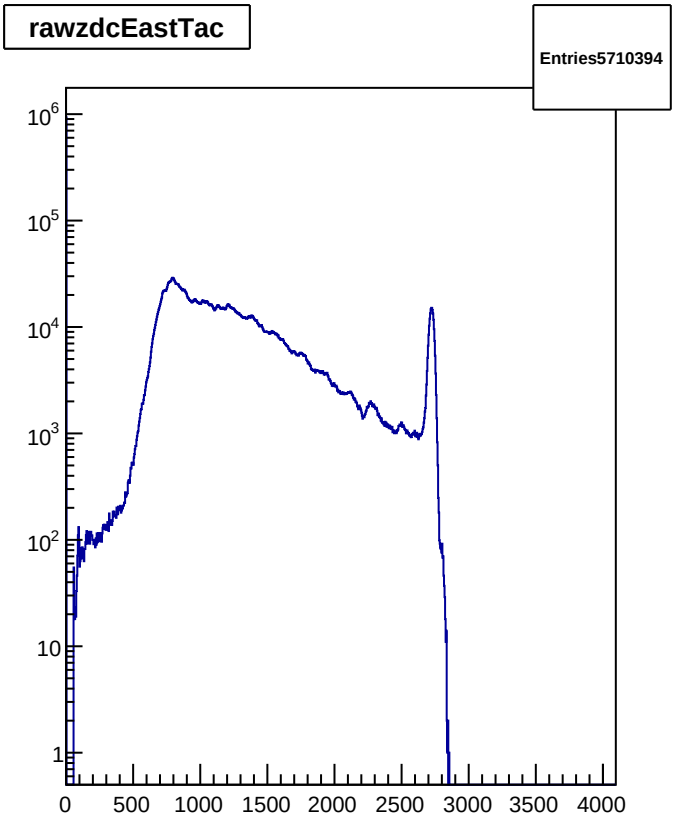

BBQ-BB001 (BBC east small tiles TAC)
Entries 9.13663e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

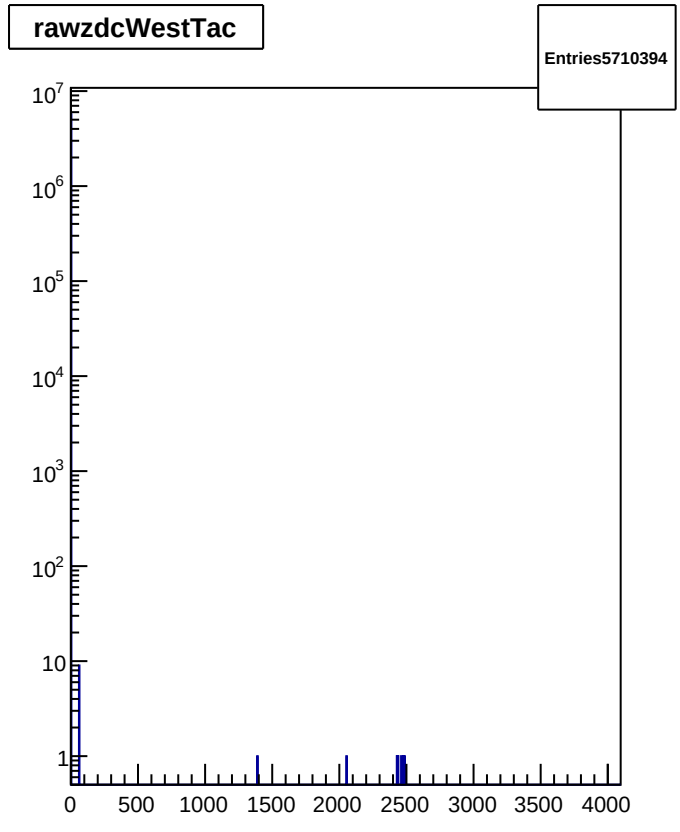

BBQ-BB002 (BBC west small tiles ADC)
Entries 9.13663e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

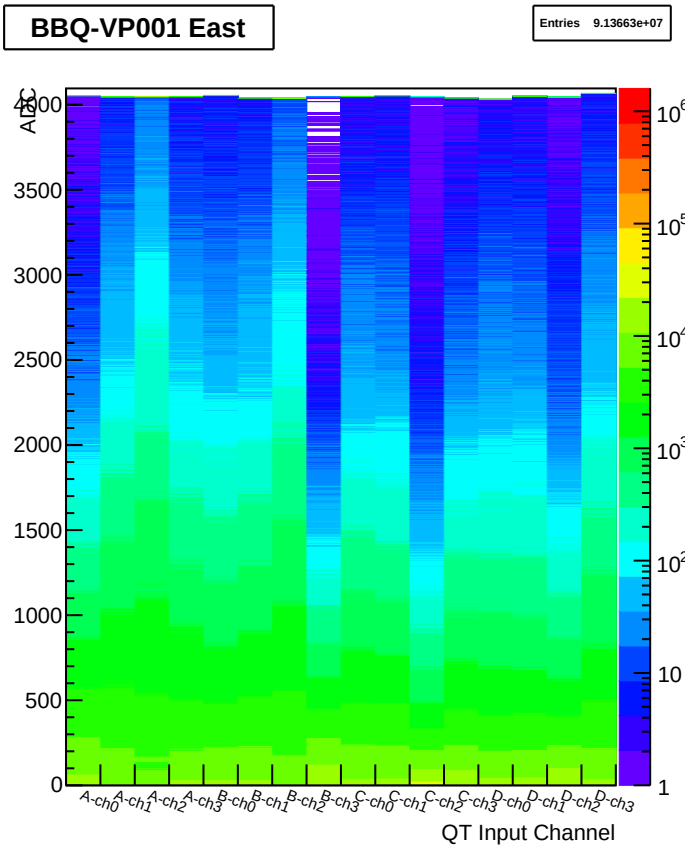

BBQ-BB002 (BBC west small tiles TAC)
Entries 9.13663e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

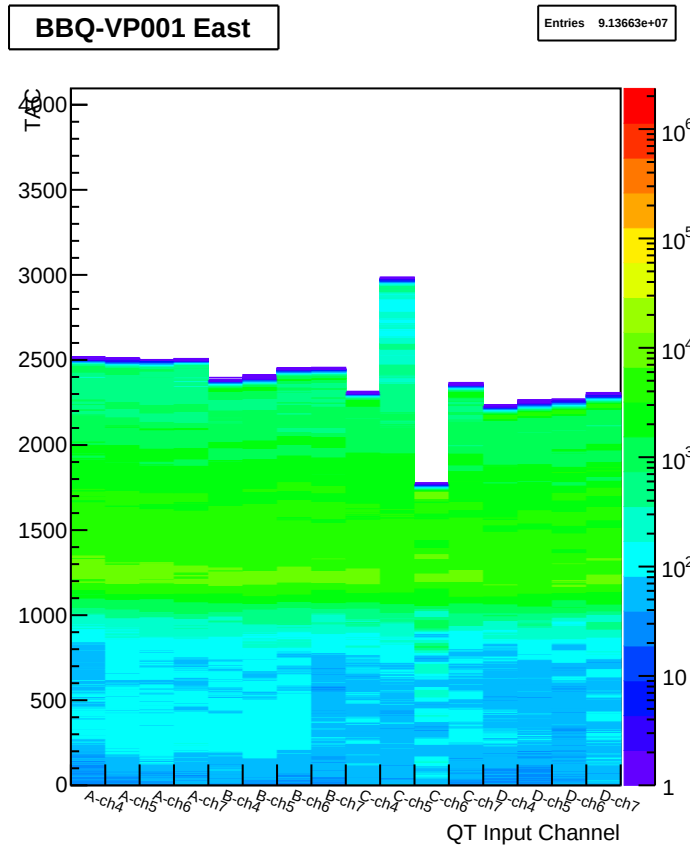

BBQ-ZD001 (ZDC TOWER)
Entries 9.13663e+07
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1A
W1A
Wsum
WsumA
W2
W3
W2A

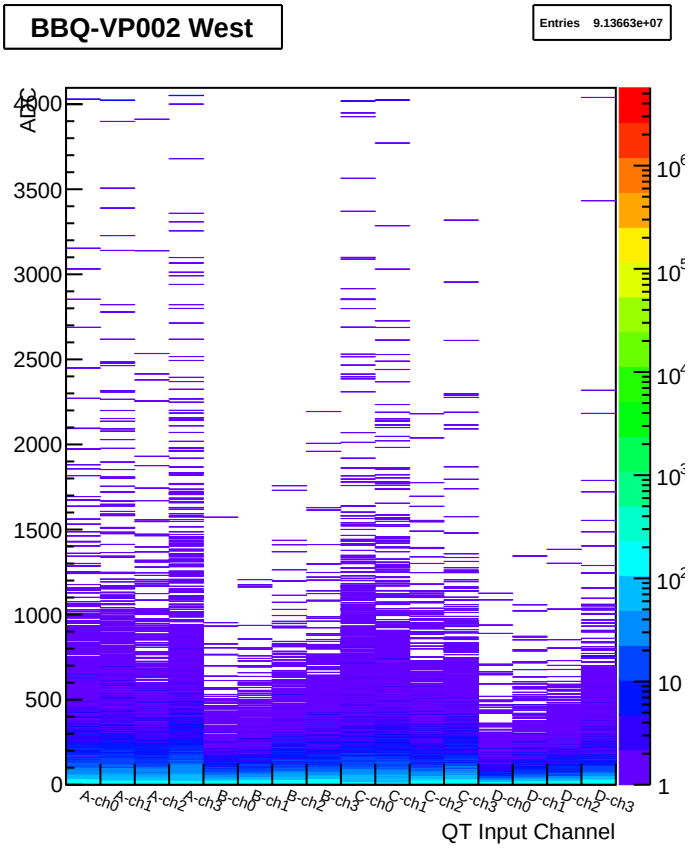

BBQ-ZD001 (ZDC TOWER)
Entries 9.13663e+07
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

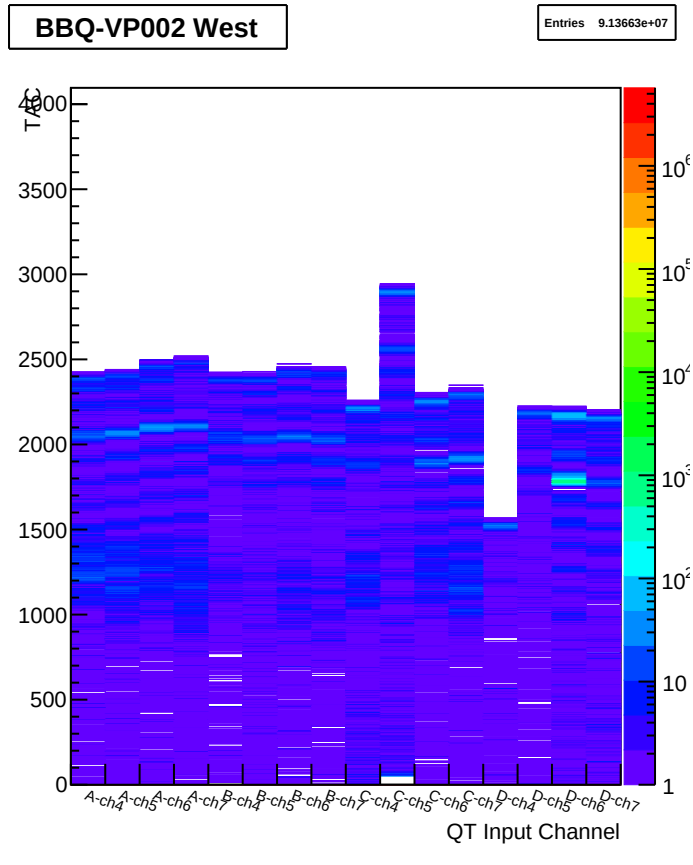

rawzdcEastTac
Entries5710394

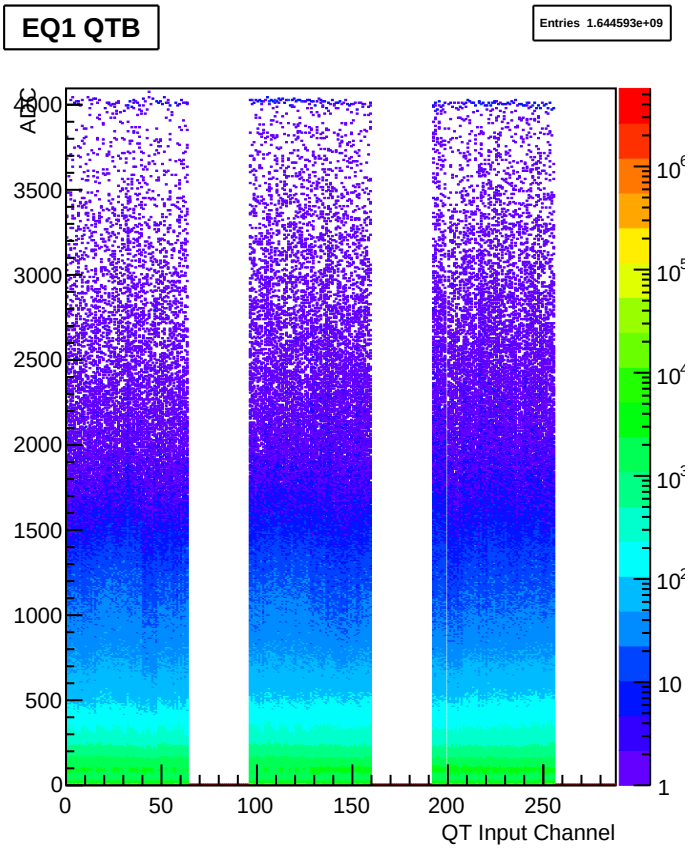

rawzdcWestTac
Entries5710394

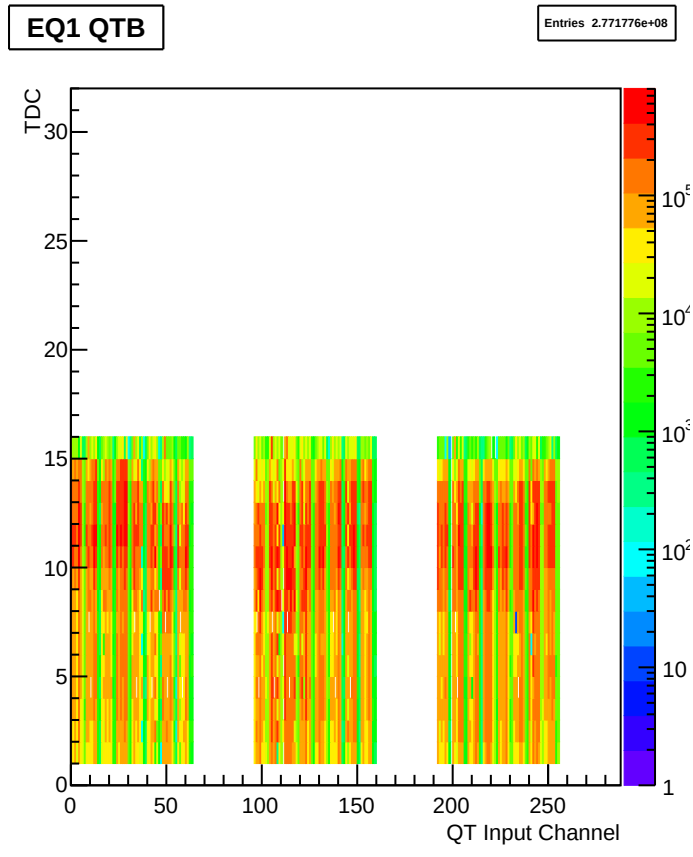

BBQ-VP001 East
Entries 9.13663e+07
ADC
QT Input Channel

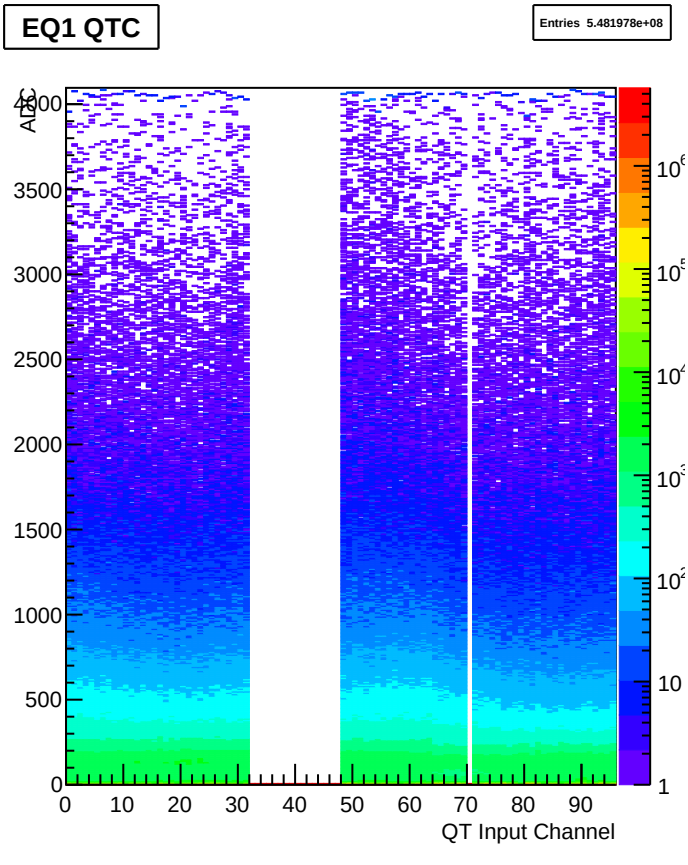

BBQ-VP001 East
Entries 9.13663e+07
TADC
QT Input Channel

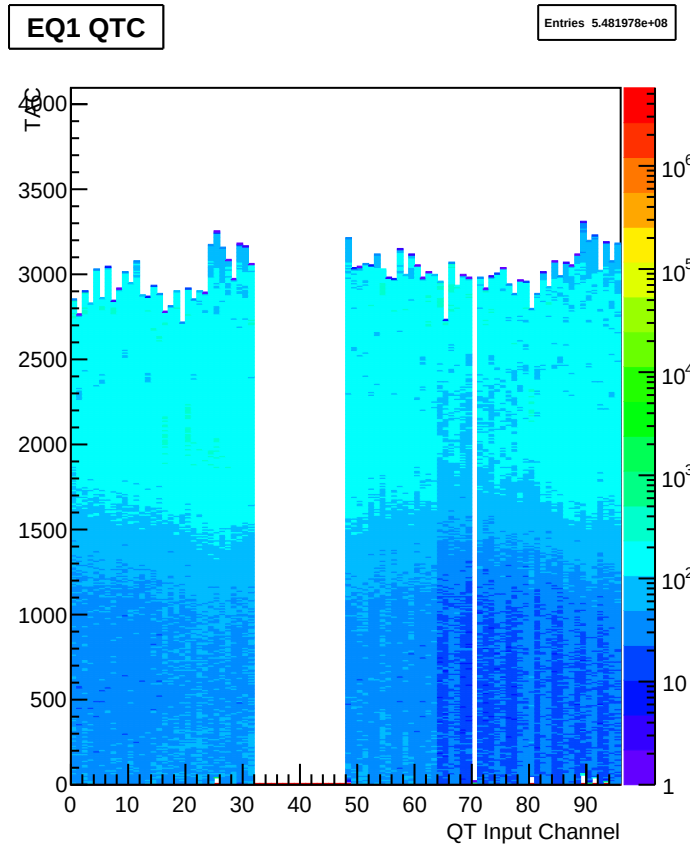

BBQ-VP002 West
Entries 9.13663e+07
ADC
QT Input Channel

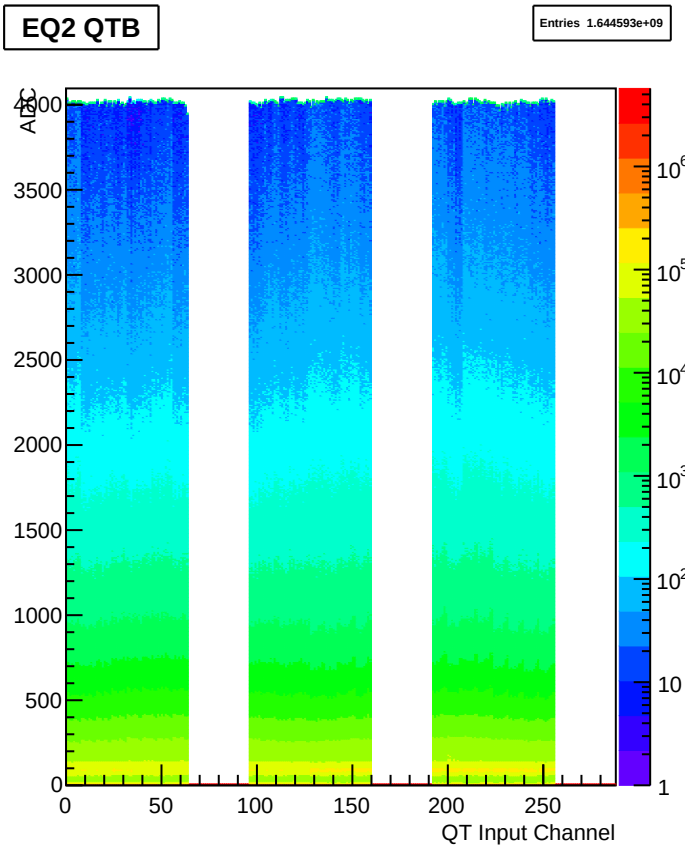

BBQ-VP002 West
Entries 9.13663e+07
TADC
QT Input Channel

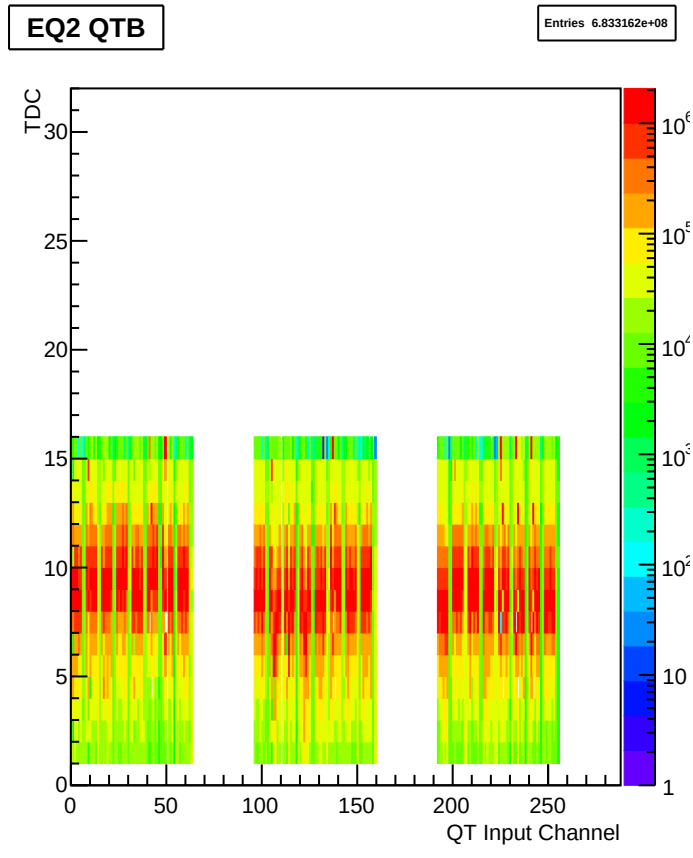

EQ1 QTB
Entries 1.644593e+09
ADC
QT Input Channel

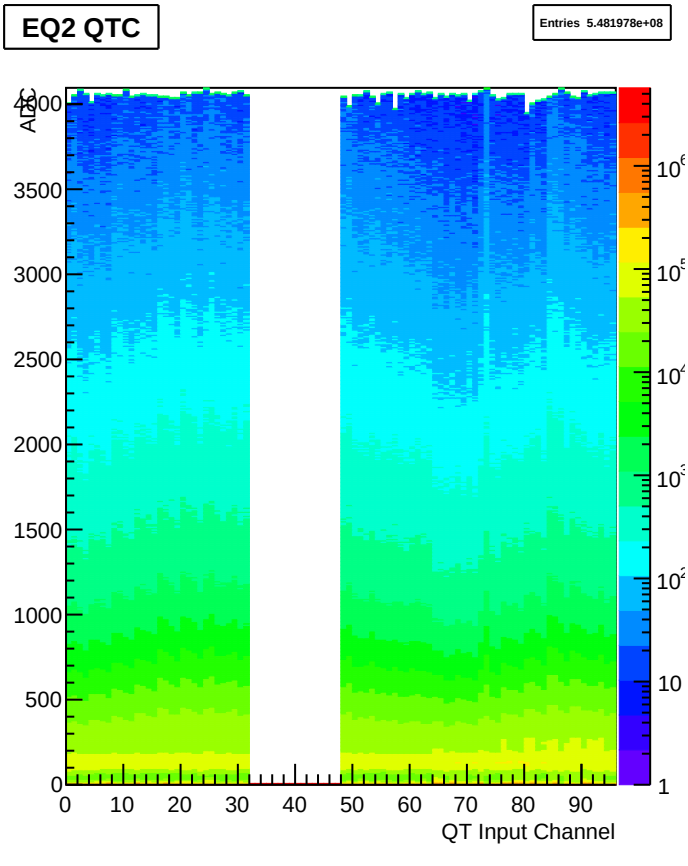

EQ1 QTB
Entries 2.771776e+08
TDC
QT Input Channel

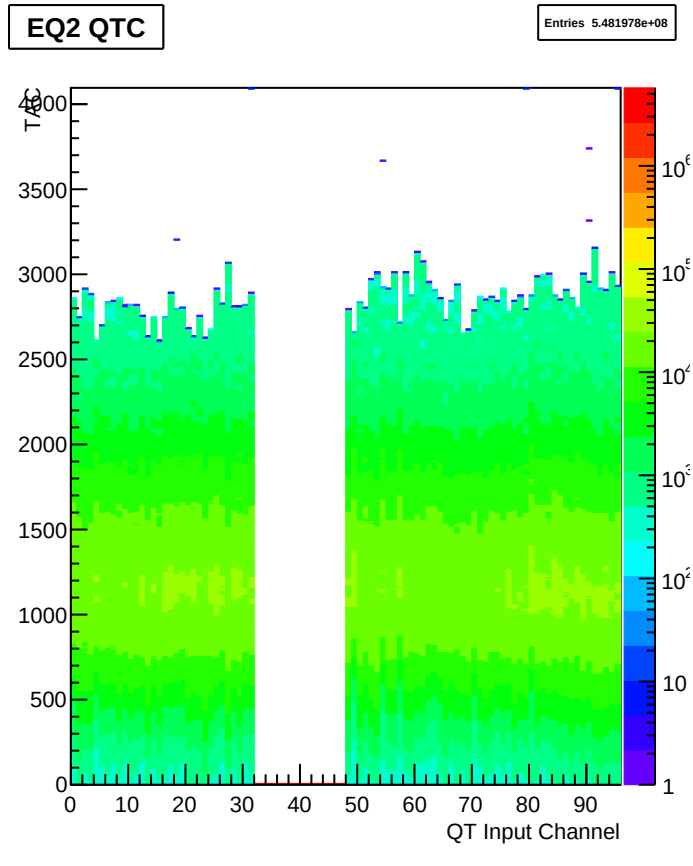

EQ1 QTC
Entries 5.481978e+08
ADC
QT Input Channel

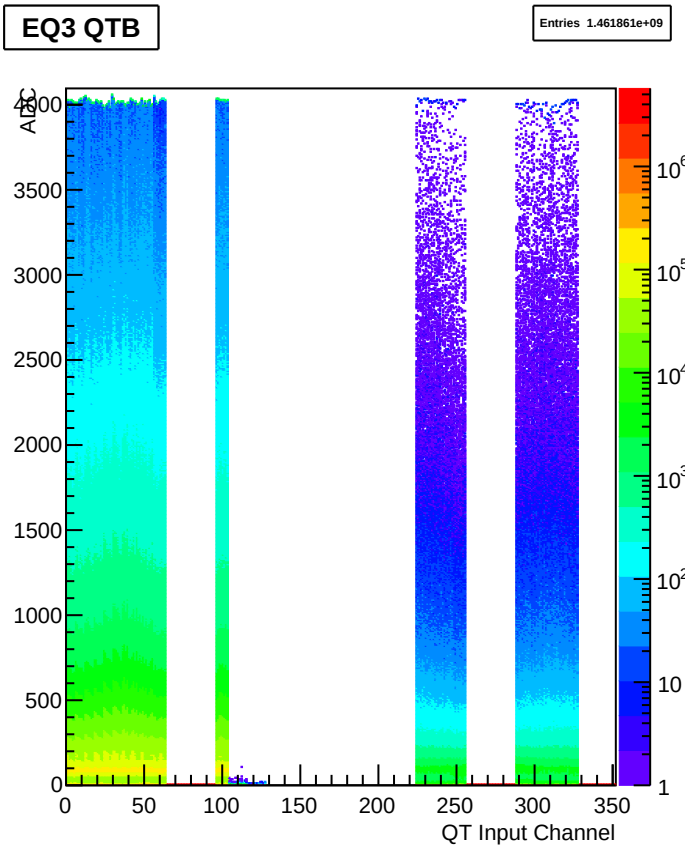

EQ1 QTC
Entries 5.481978e+08
TADC
QT Input Channel

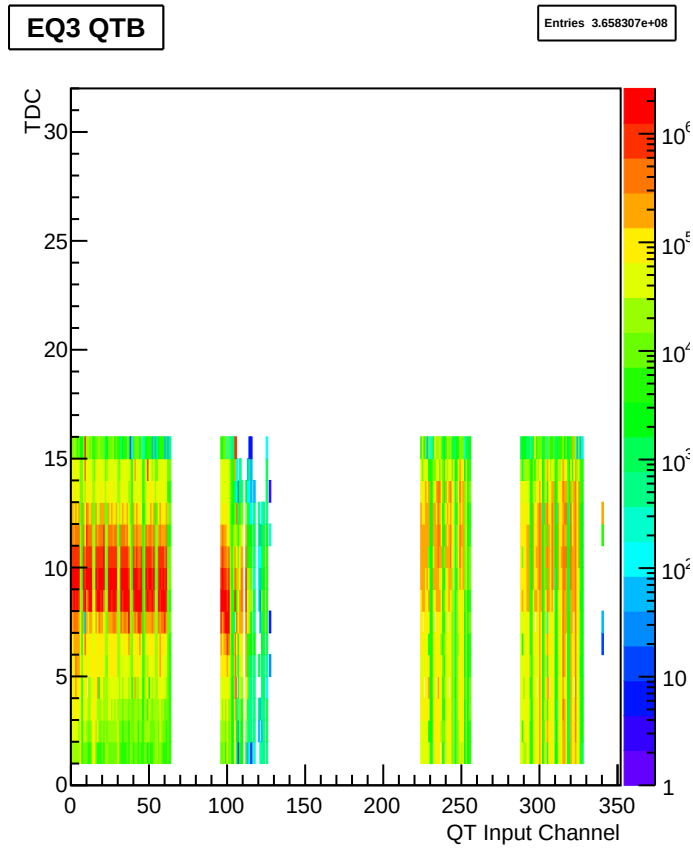

EQ2 QTB
Entries 1.644593e+09
ADC
QT Input Channel

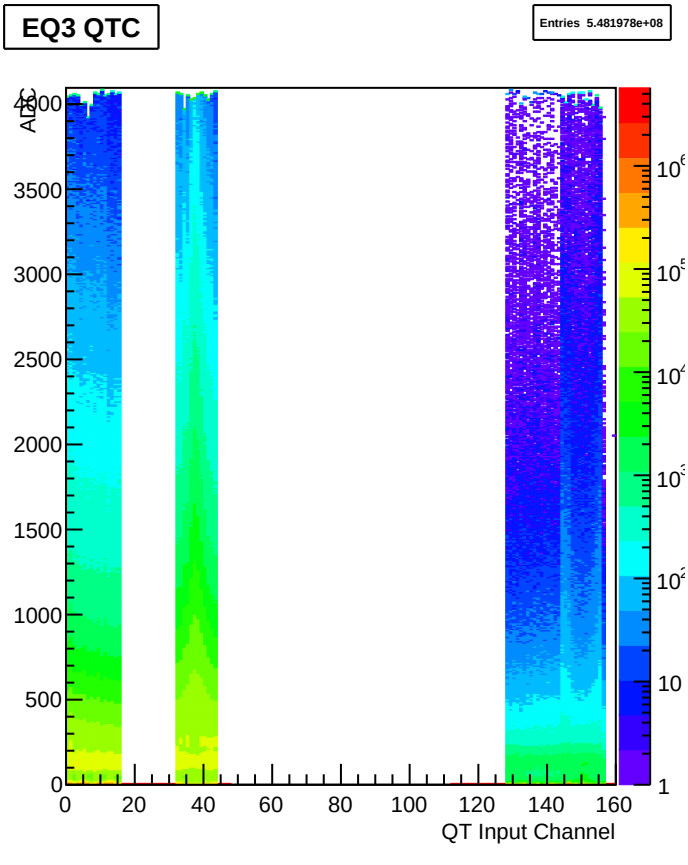

EQ2 QTB
Entries 6.833162e+08
TDC
QT Input Channel

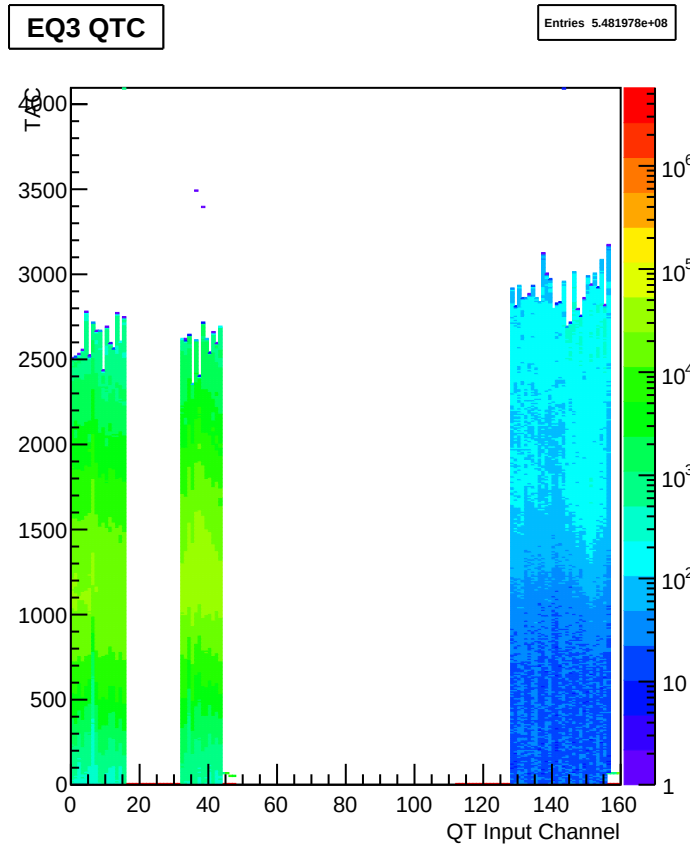

EQ2 QTC
Entries 5.481978e+08
ADC
QT Input Channel

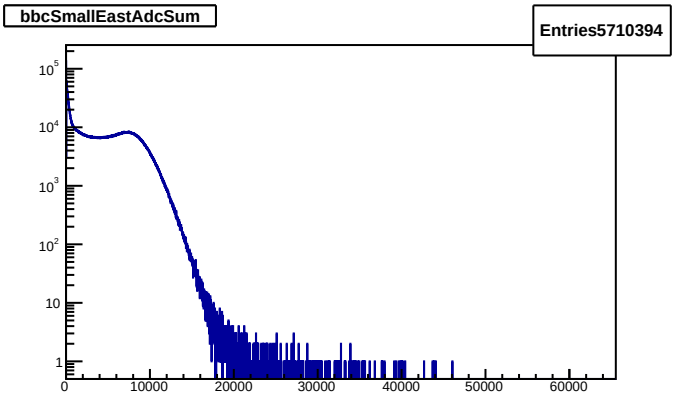

EQ2 QTC
Entries 5.481978e+08
TADC
QT Input Channel

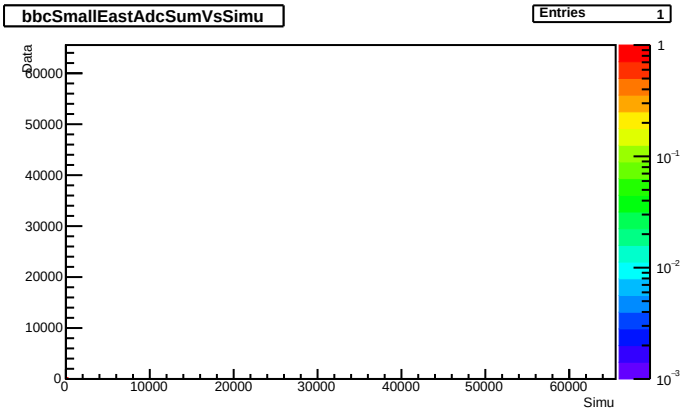

EQ3 QTB
Entries 1.461861e+09
ADC
QT Input Channel

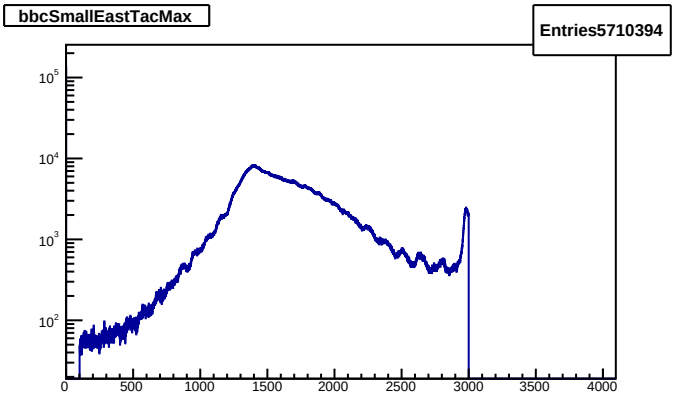

EQ3 QTB
Entries 3.658307e+08
TDC
QT Input Channel

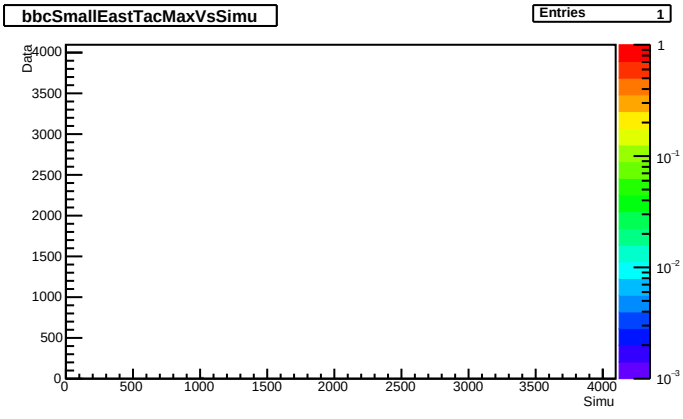

EQ3 QTC
Entries 5.481978e+08
ADC
QT Input Channel

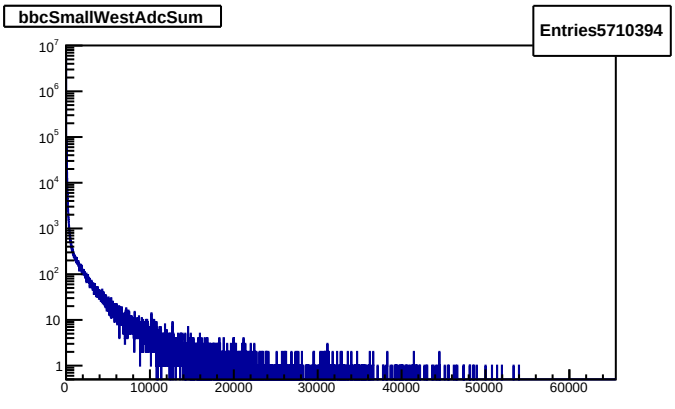

EQ3 QTC
Entries 5.481978e+08
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries5710394


bbcSmallEastAdcSumVsSimu
Entries 1
Data
Simu


bbcSmallEastTacMax
Entries5710394


bbcSmallEastTacMaxVsSimu
Entries 1
Data
Simu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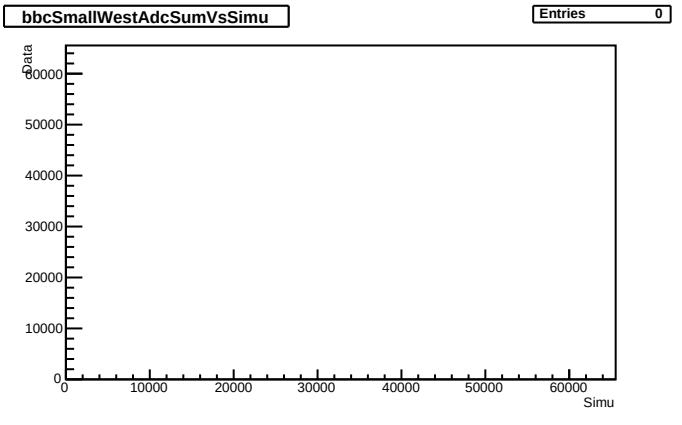
Entries5710394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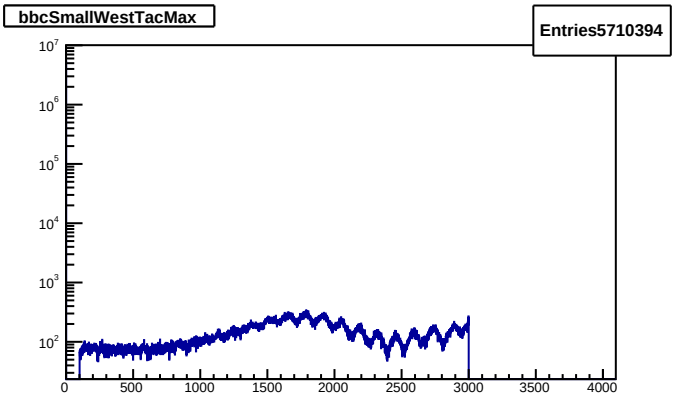
Entries 0
Data
Simu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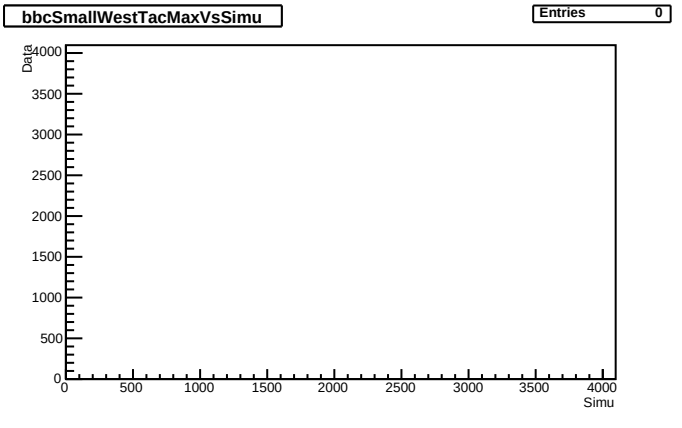
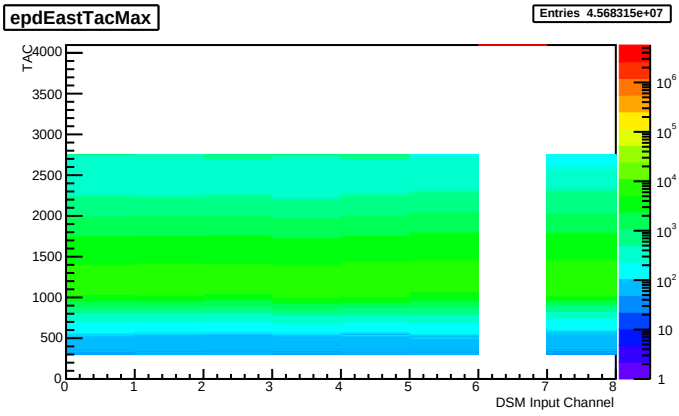
Entries5710394


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu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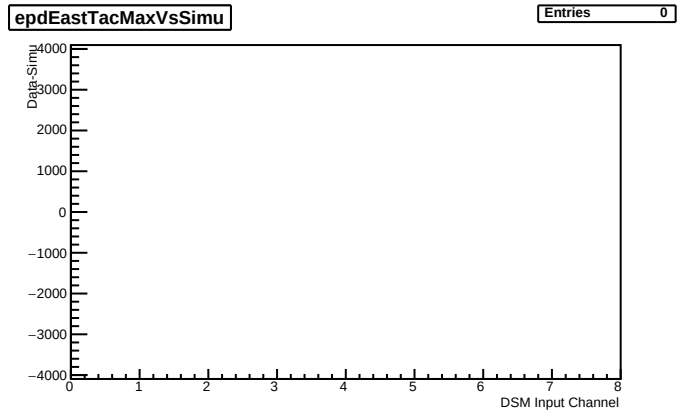
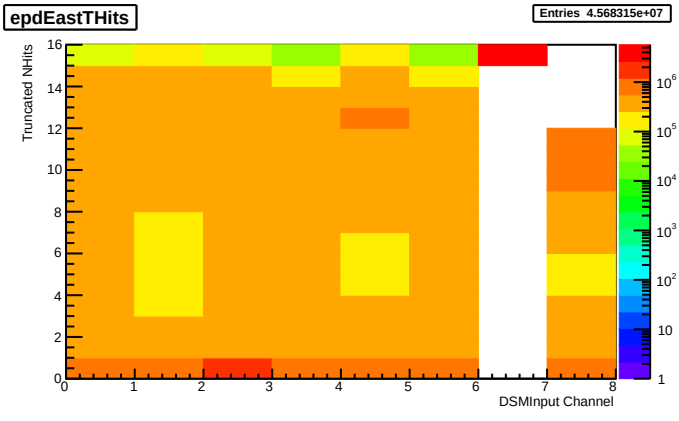
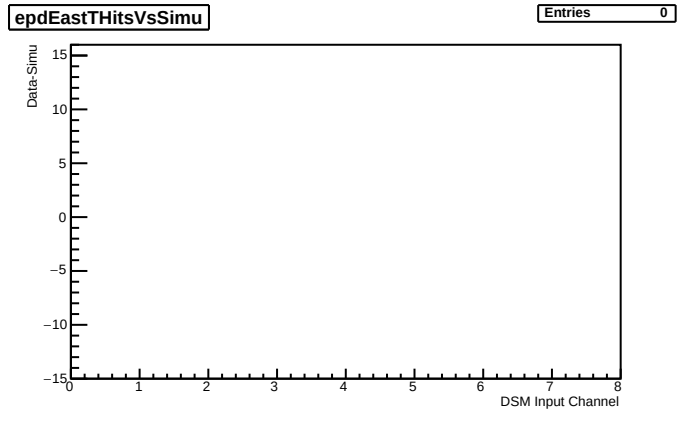
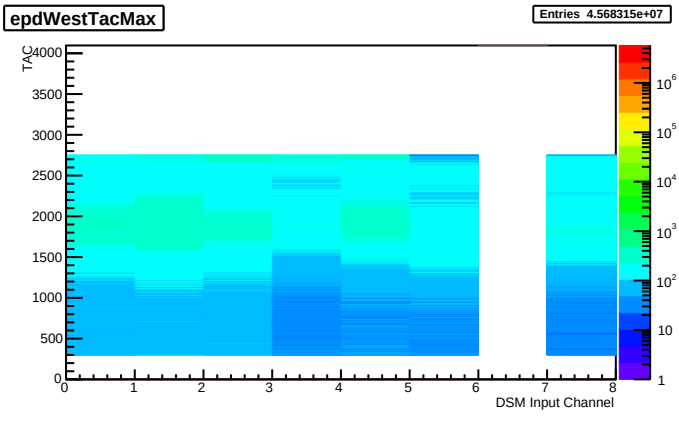
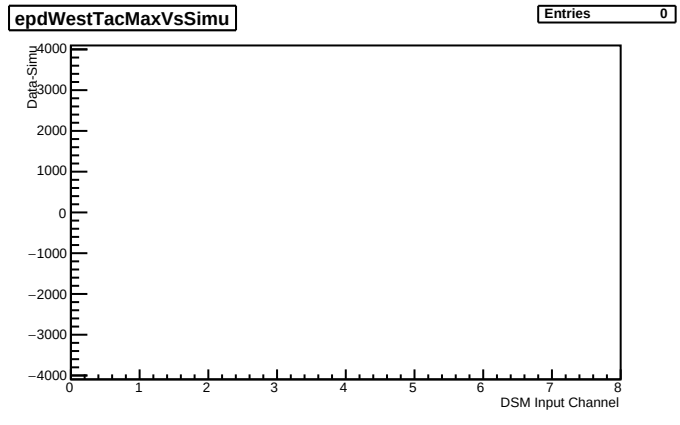
TAC
DSM Input Channel

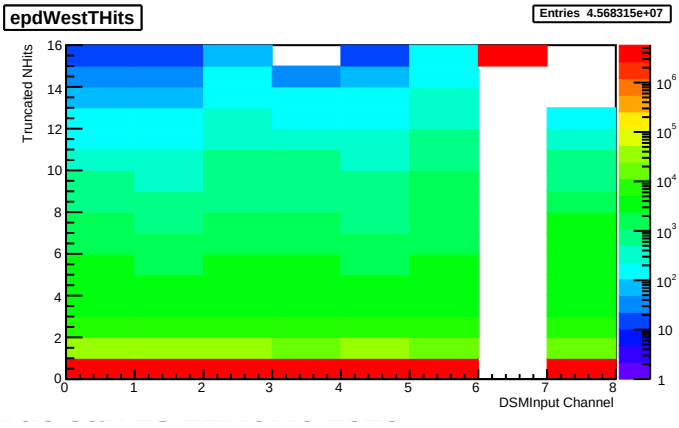

epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel

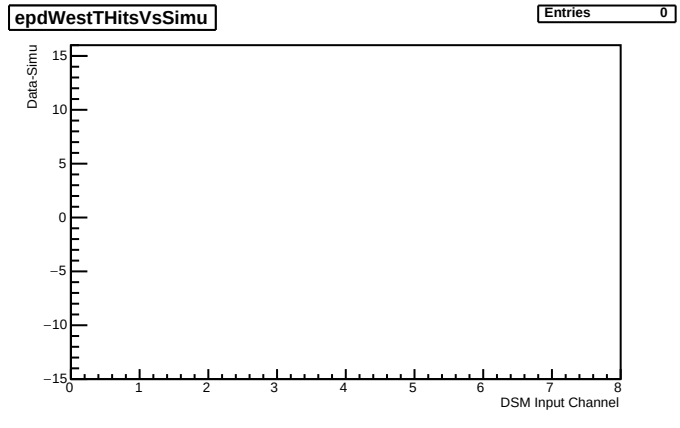

epdEastTHits
Entries 4.568315e+07
Truncated NHits
DSMInput Channel


epdEastTHitsVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 4.568315e+07
TAC
DSM Input Channel


epdWestTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 4.568315e+07
Truncated NHits
DSMInput Channel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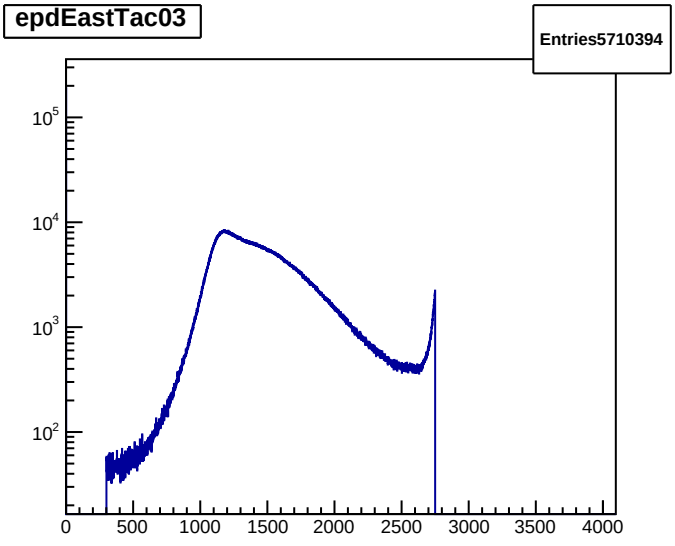
Entries 0
Data-Simu
DSM Input Channel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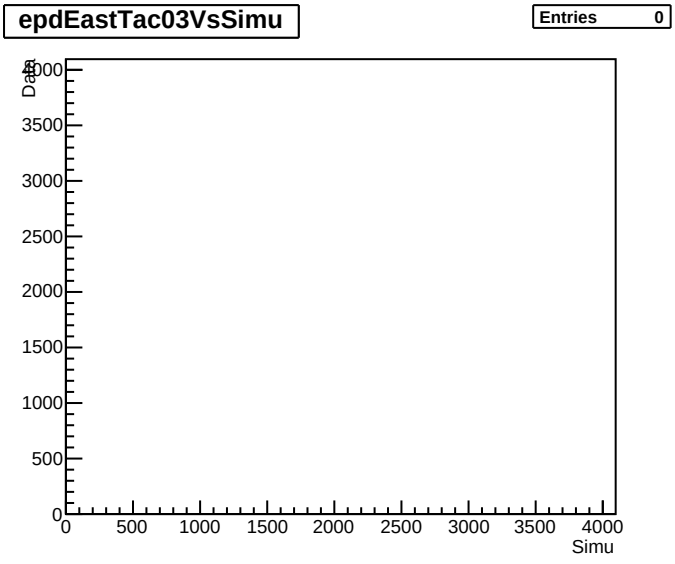
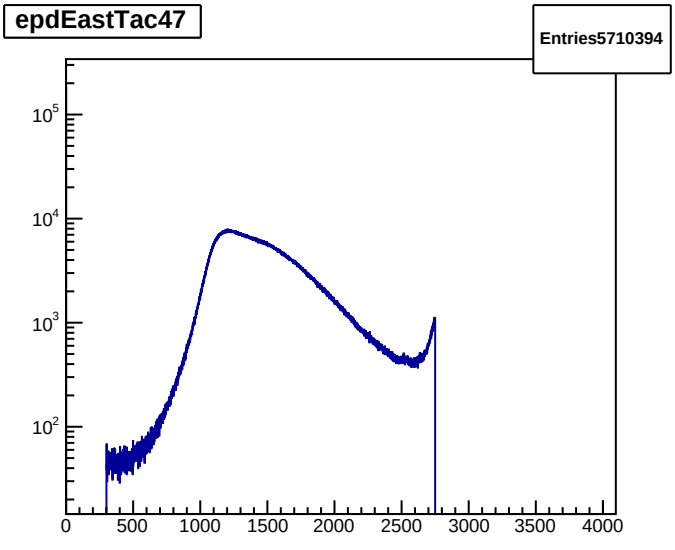
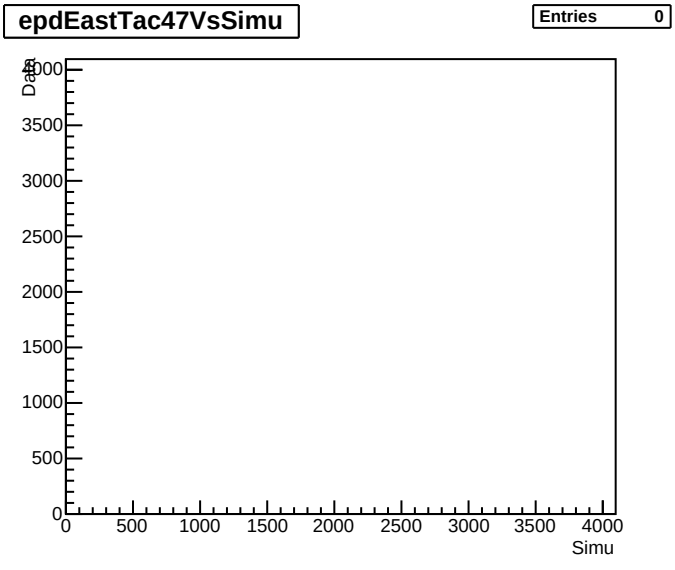
Entries5710394
10^5
10^4
10^3
10^2
0 500 1000 1500 2000 2500 3000 3500 4000


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


epdEastTac47
Entries5710394
10^5
10^4
10^3
10^2
0 500 1000 1500 2000 2500 3000 3500 4000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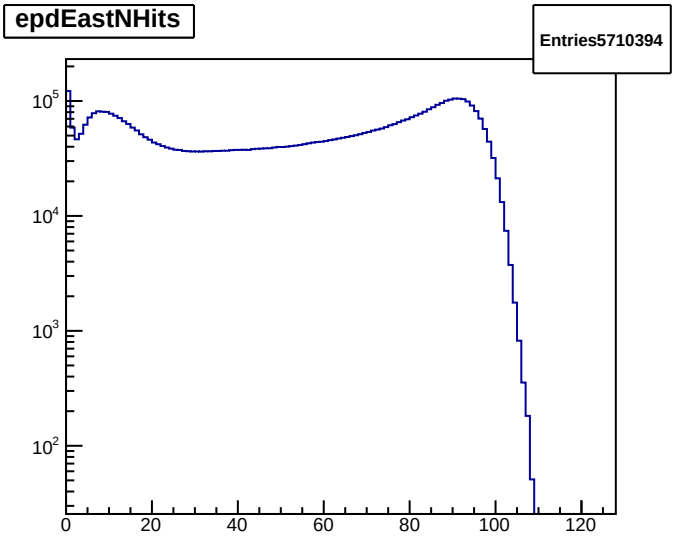
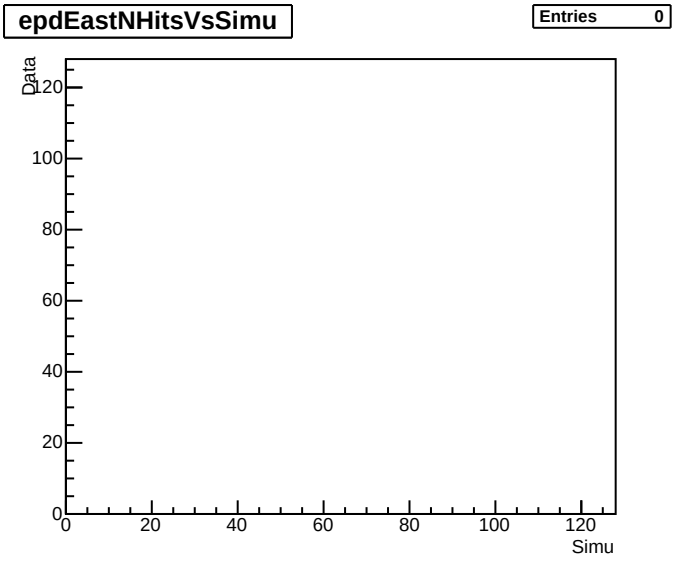
Entries 0
Data
4000 3500 3000 2500 2000 1500 1000 500 0
0 500 1000 1500 2000 2500 3000 3500 4000
Simu


epdEastNHits
Entries5710394
10^5
10^4
10^3
10^2
0 20 40 60 80 100 120


epdEastNHitsVsSimu
Entries 0
Data
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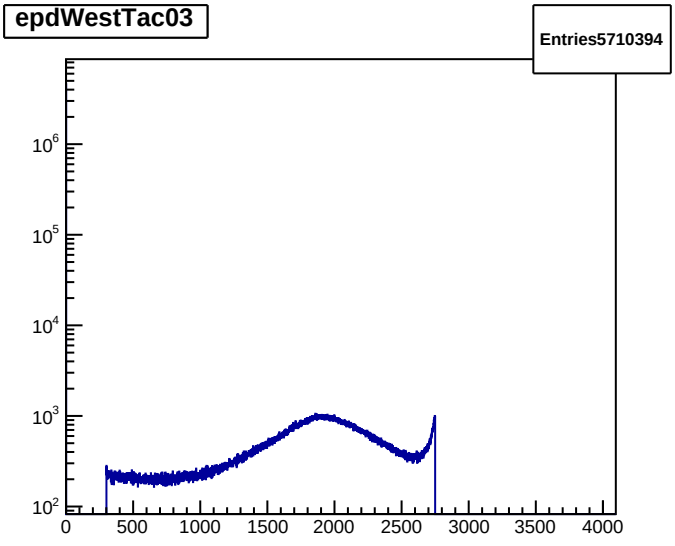
0 20 40 60 80 100 120
Simu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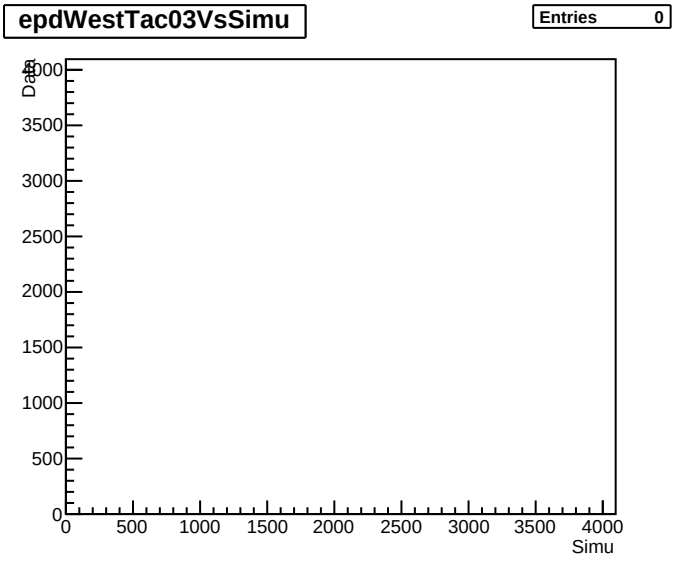
Entries5710394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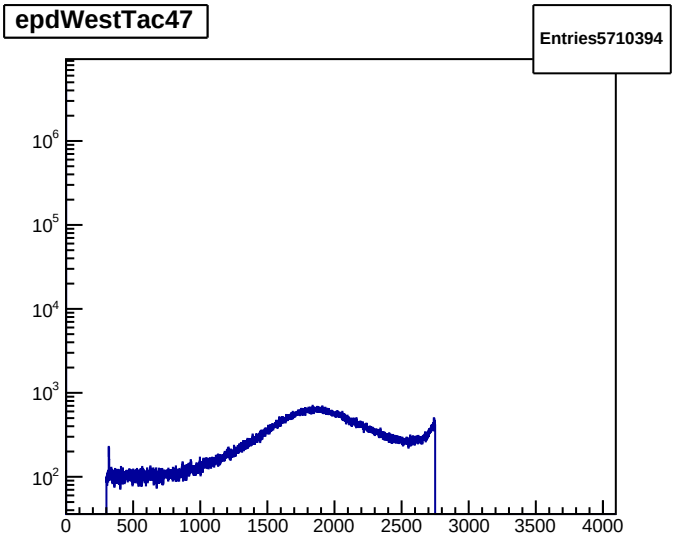
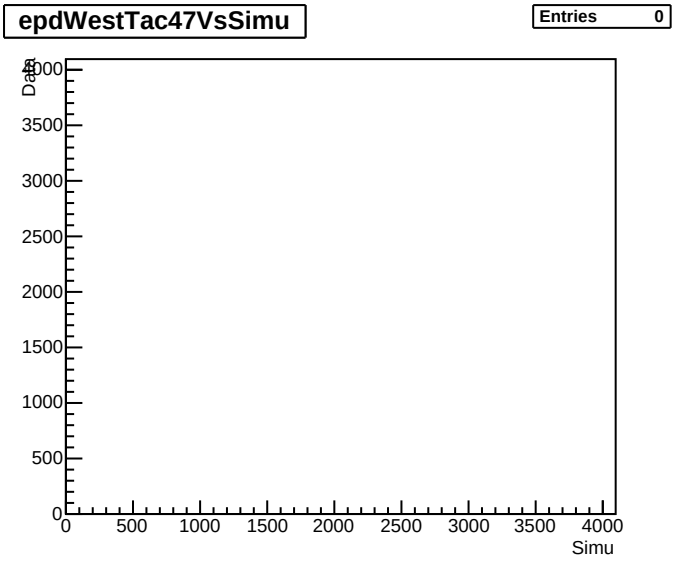
Entries 0
Data
Simu


epdWestTac47
Entries5710394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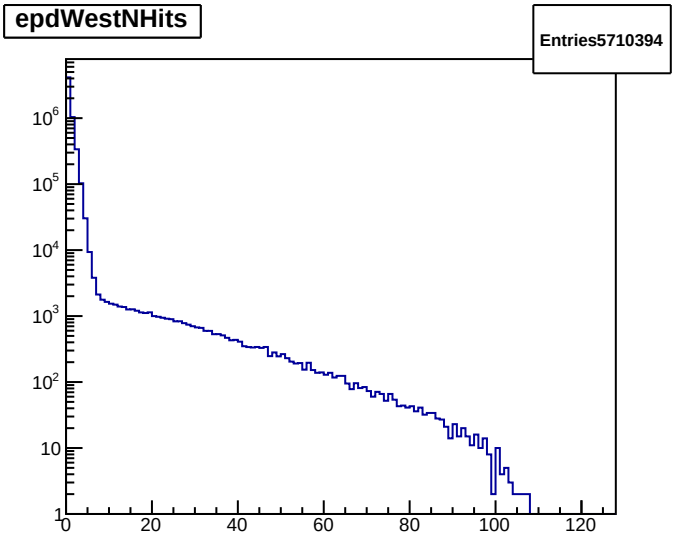
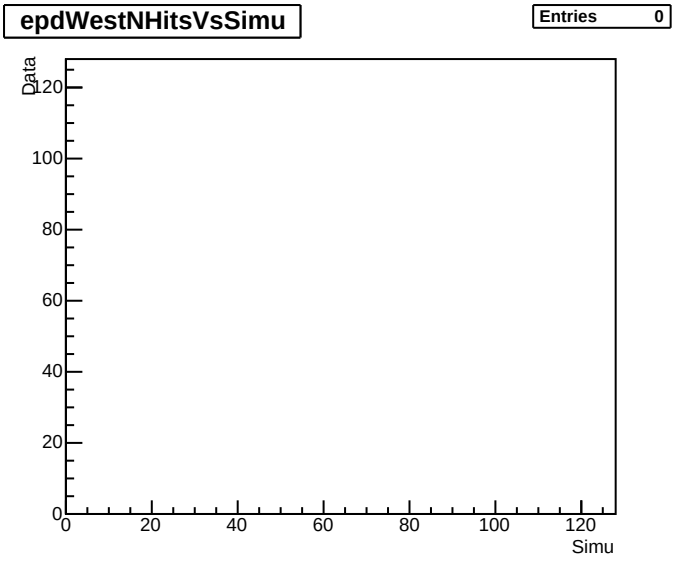
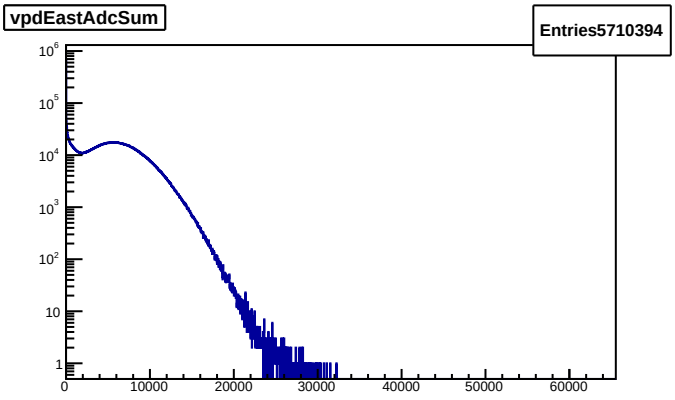
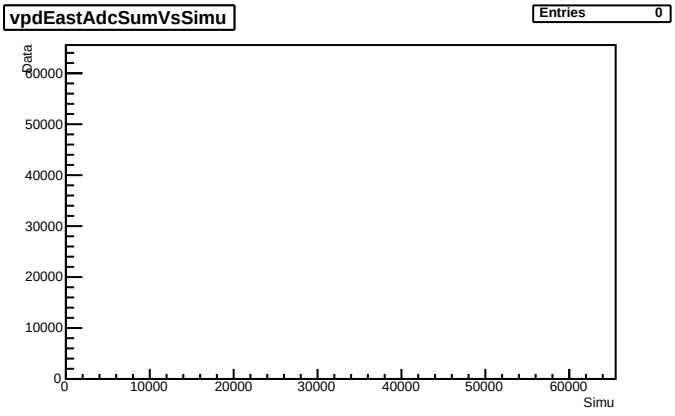
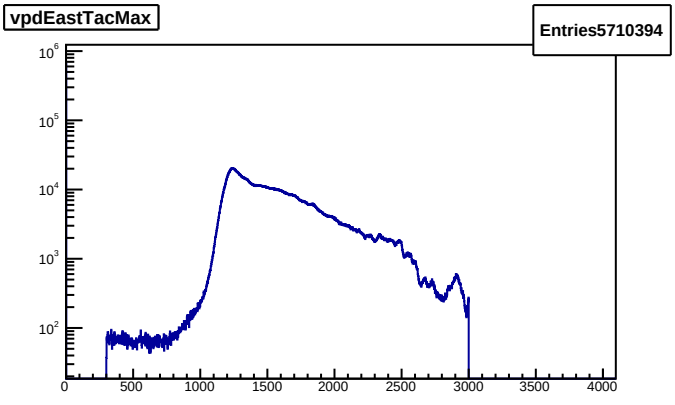
Entries 0
Data
Simu

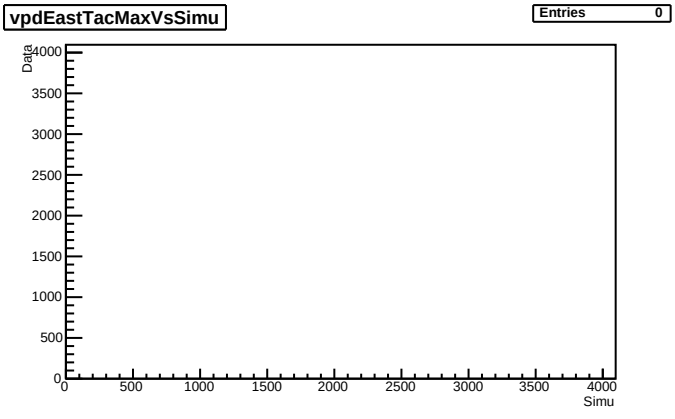

epdWestNHits
Entries5710394


epdWestNHitsVsSimu
Entries 0
Data
Simu


vpdEastAdcSum
Entries5710394


vpdEastAdcSumVsSimu
Entries 0
Data
Simu


vpdEastTacMax
Entries5710394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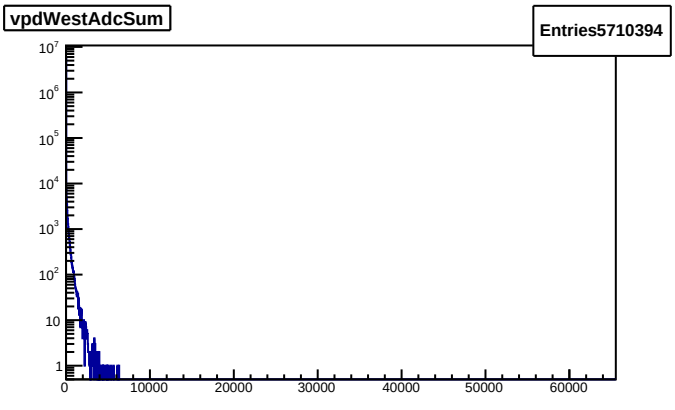
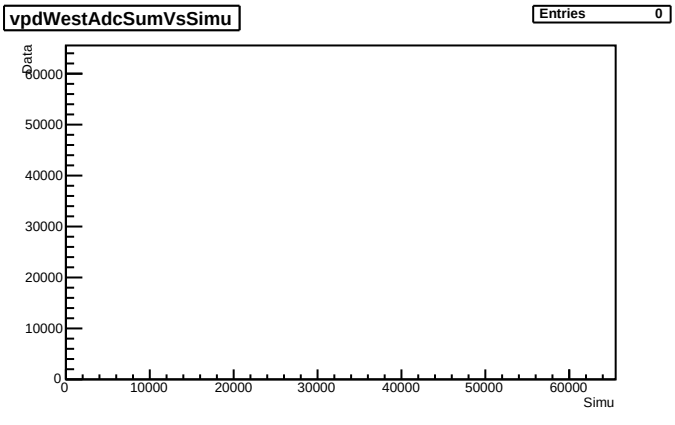
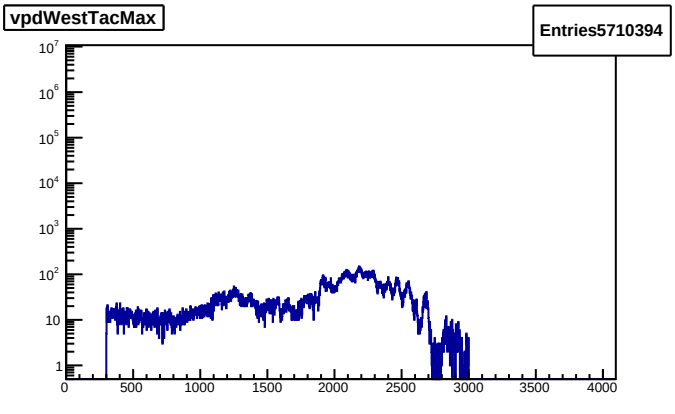
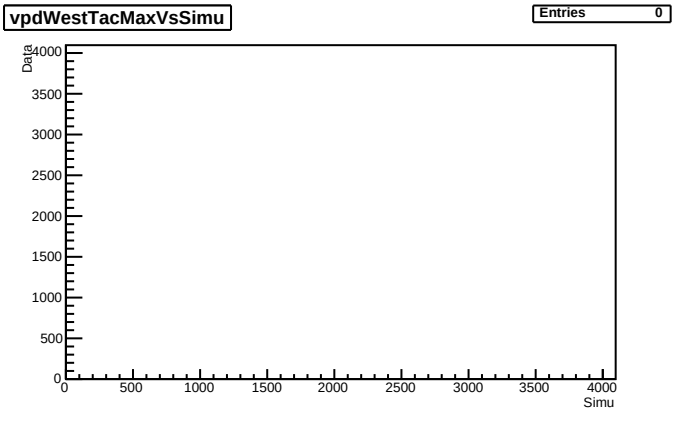
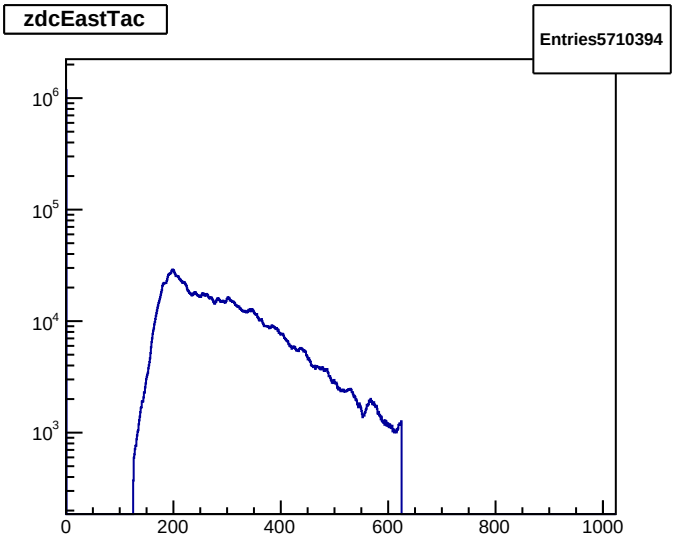
Entries 0
Data
Simu

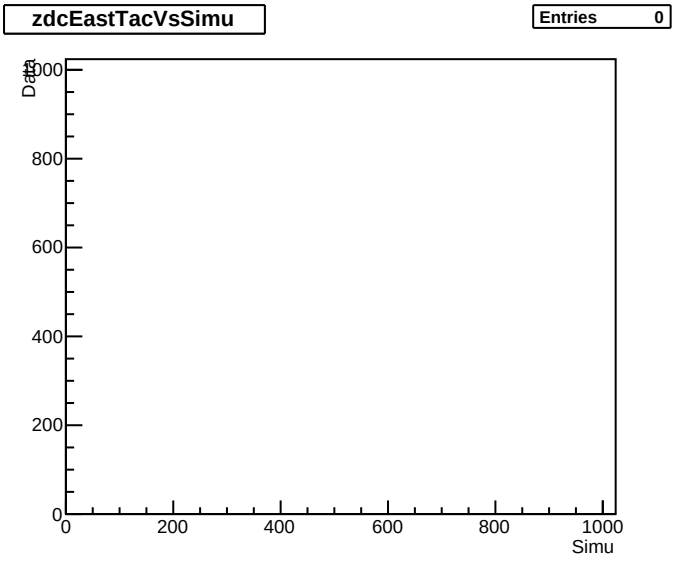

vpdWestAdcSum
Entries5710394

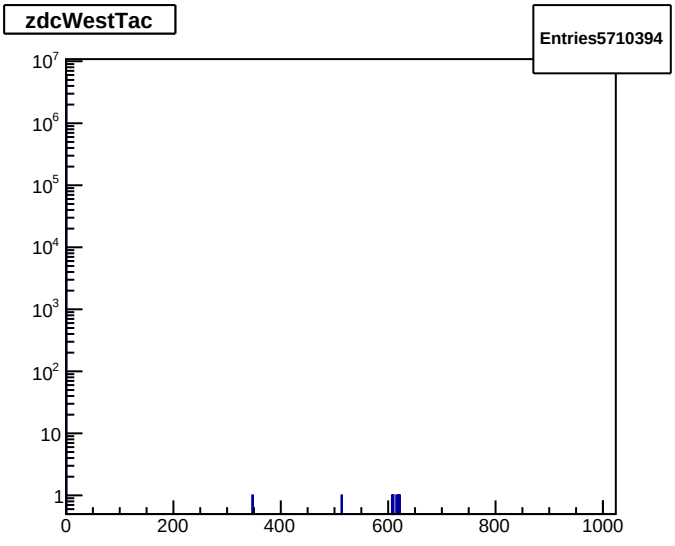

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

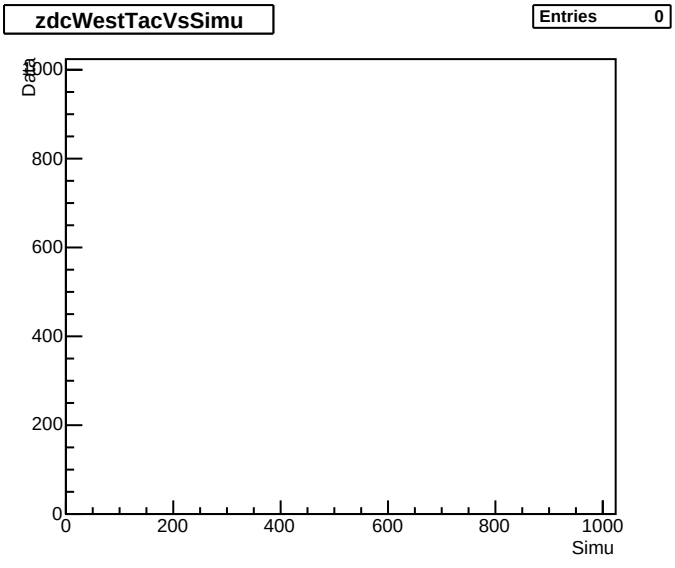

vpdWestTacMax
Entries5710394

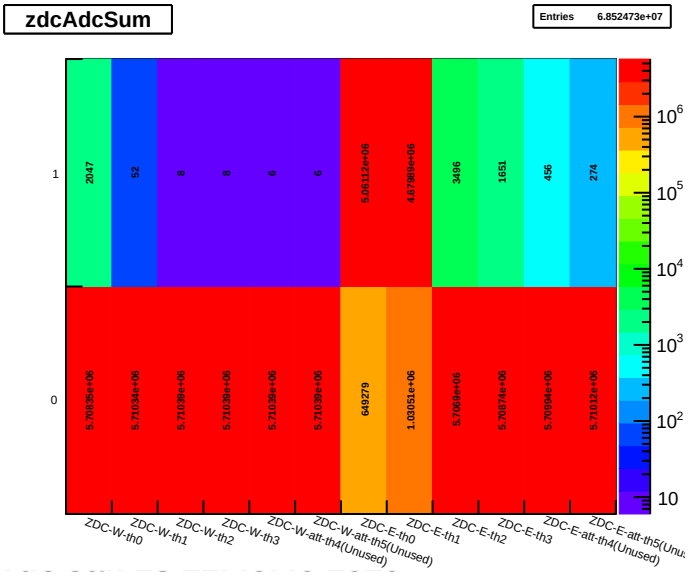

vpdWestTacMaxVsSimu
Entries 0
Data
Simu

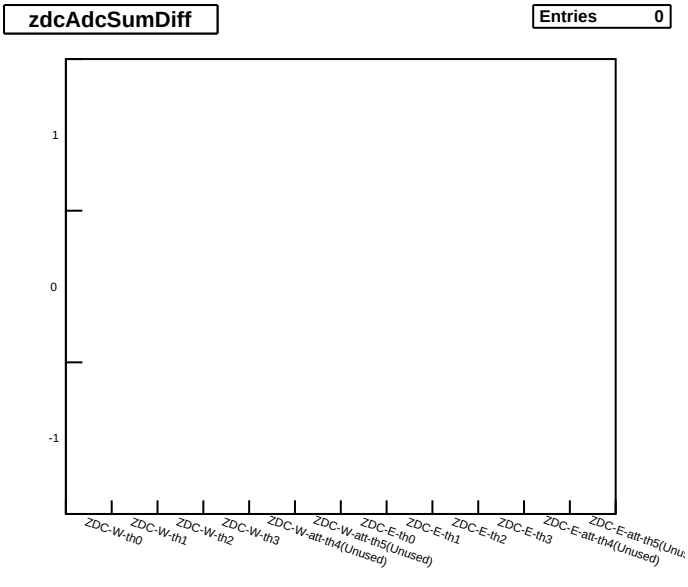

zdcEastTac
Entries5710394

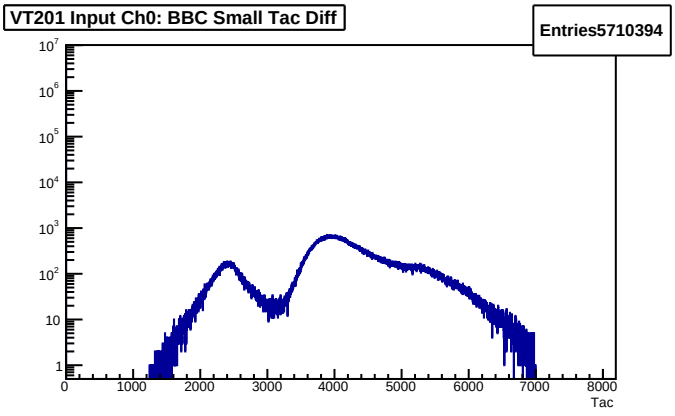

zdcEastTacVsSimu
Entries 0
Data
Simu

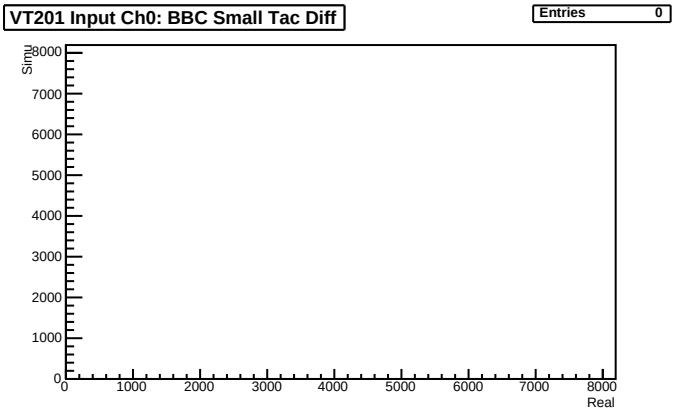

zdcWestTac
Entries5710394

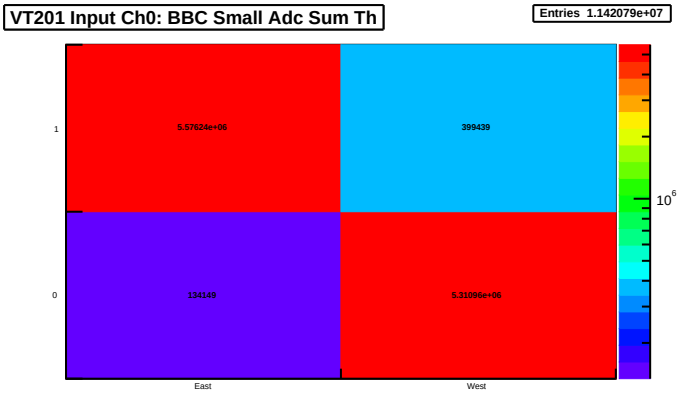

zdcWestTacVsSimu
Entries 0
Data
Simu

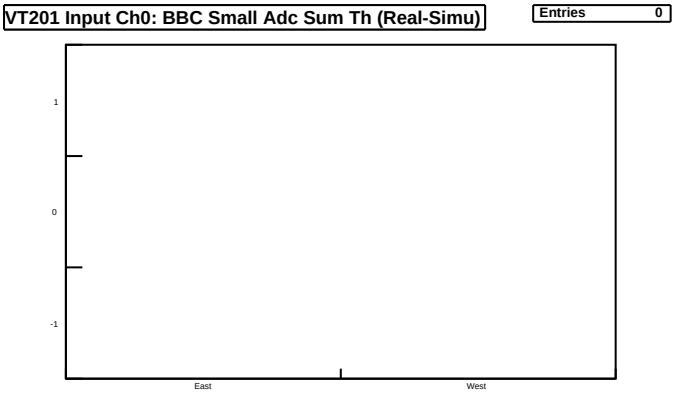

zdcAdcSum
Entries 6.852473e+07
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

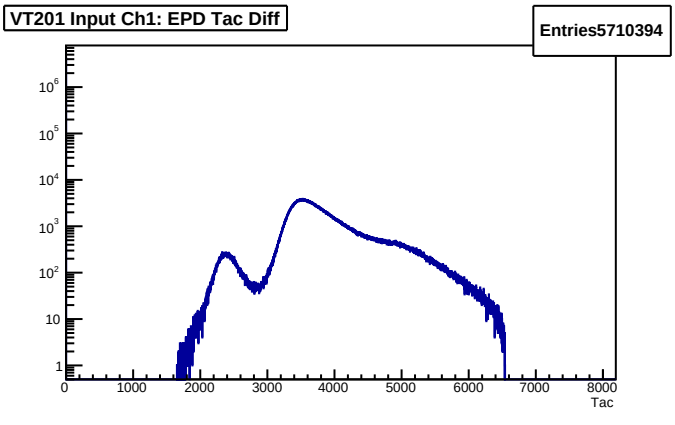

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

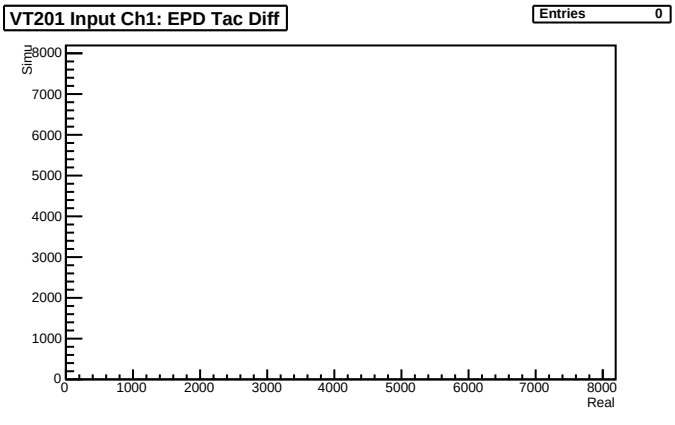

VT201 Input Ch0: BBC Small Tac Diff
Entries5710394
Tac

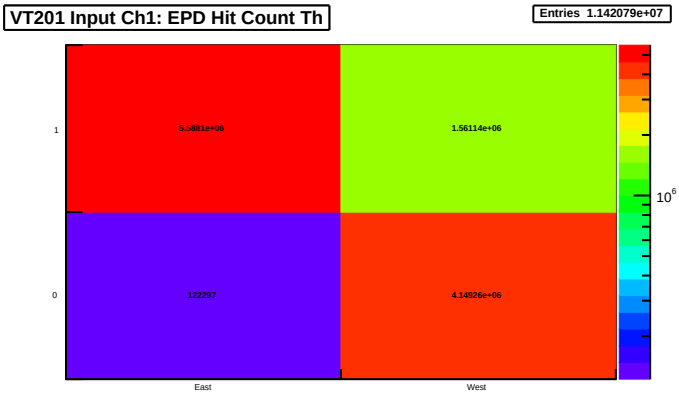

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

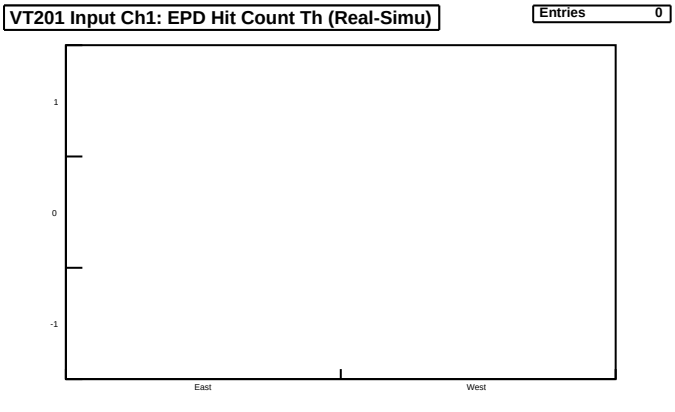

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1.142079e+07
5.57624e+06
399439
134149
5.31096e+06
East
West

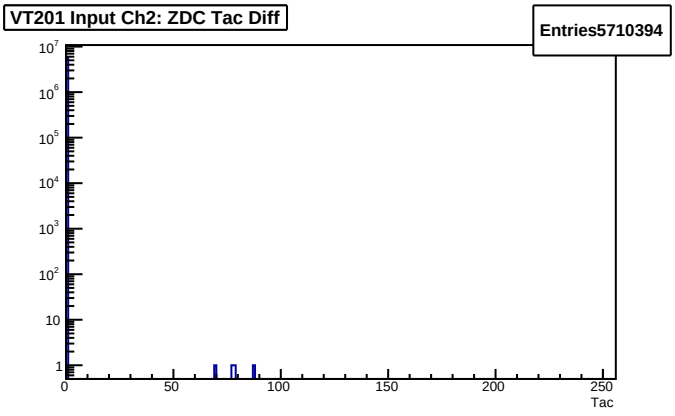

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

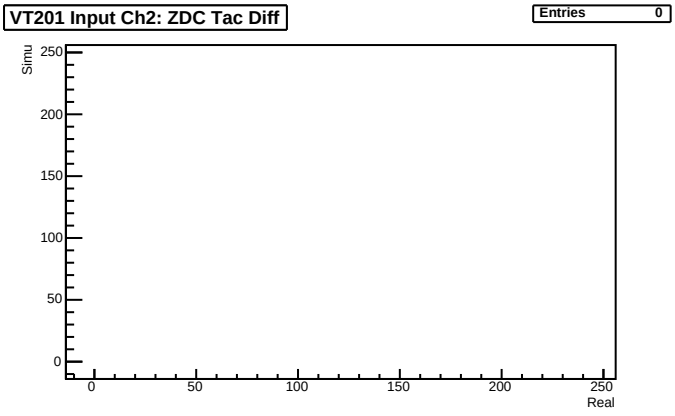

VT201 Input Ch1: EPD Tac Diff
Entries5710394
Tac

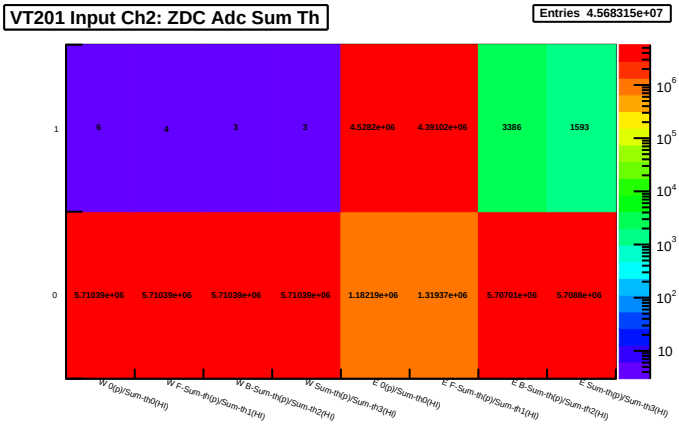

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

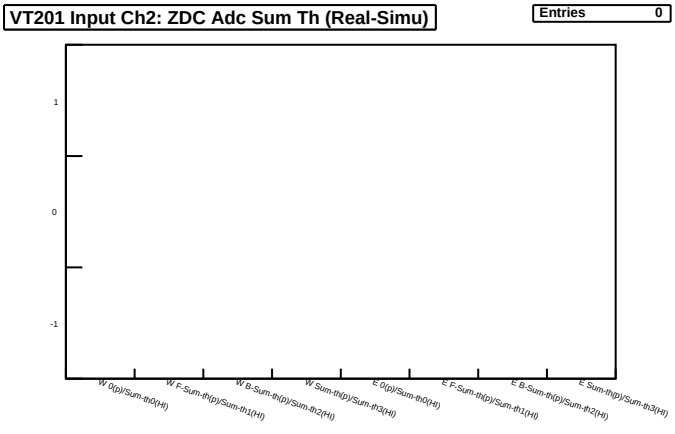

VT201 Input Ch1: EPD Hit Count Th
Entries 1.142079e+07
5.5881e+06
1.56114e+06
122297
4.14926e+06
East
West

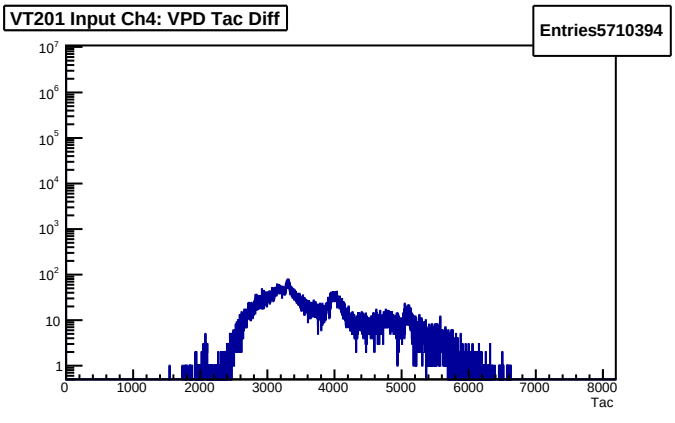

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

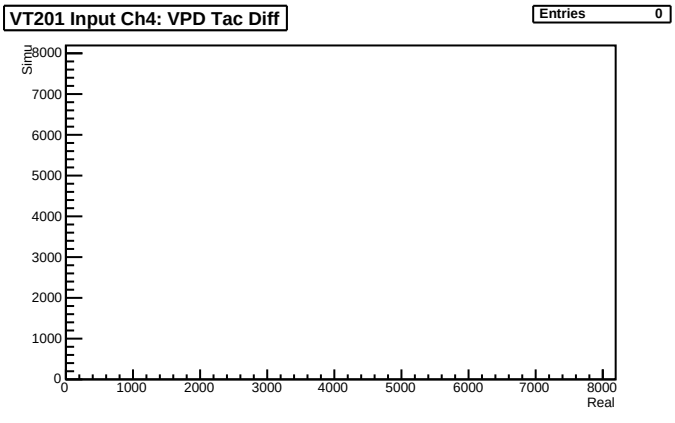

VT201 Input Ch2: ZDC Tac Diff
Entries5710394
Tac

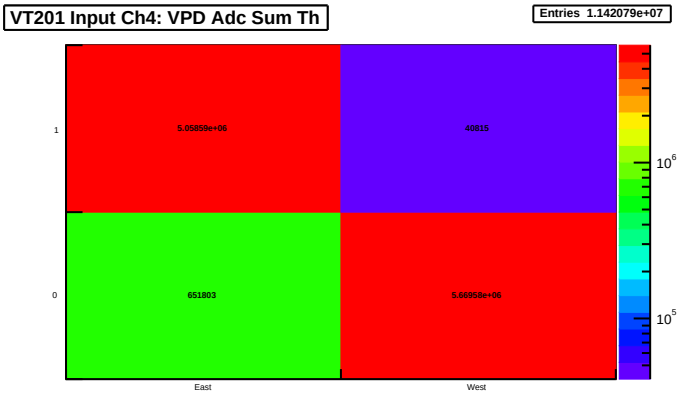

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

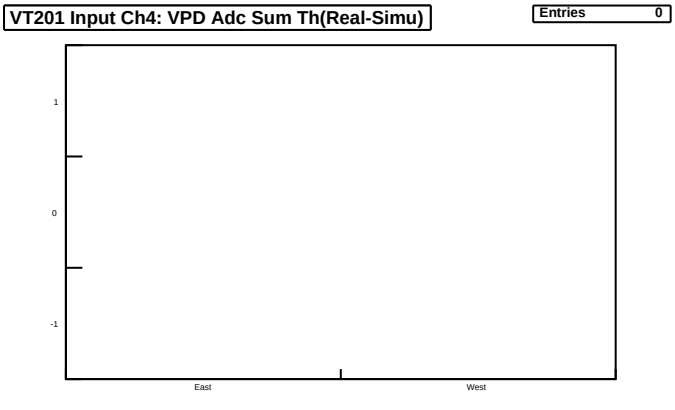

VT201 Input Ch2: ZDC Adc Sum Th
Entries 4.568315e+07
6
4
3
3
4.5282e+06
4.39102e+06
3386
1593
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
1.18219e+06
1.31937e+06
5.70701e+06
5.7088e+06
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

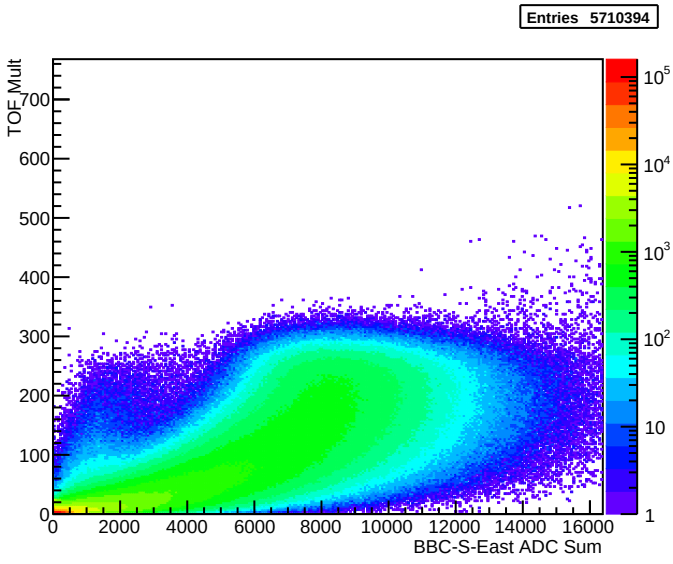

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

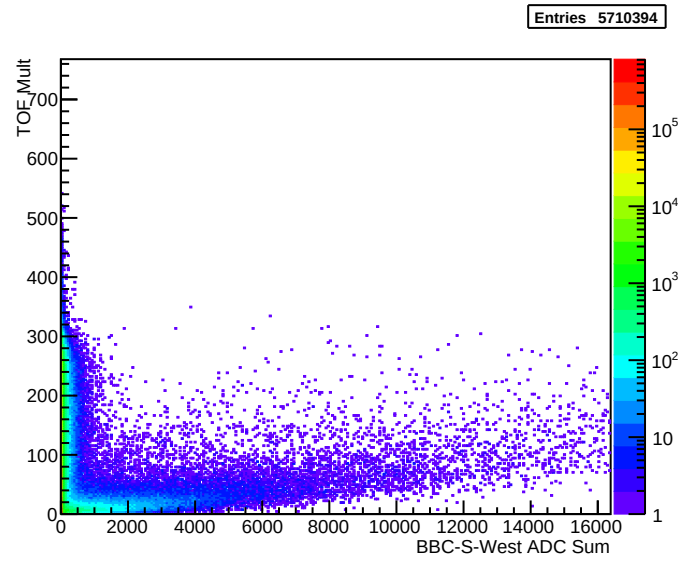

VT201 Input Ch4: VPD Tac Diff
Entries5710394
Tac

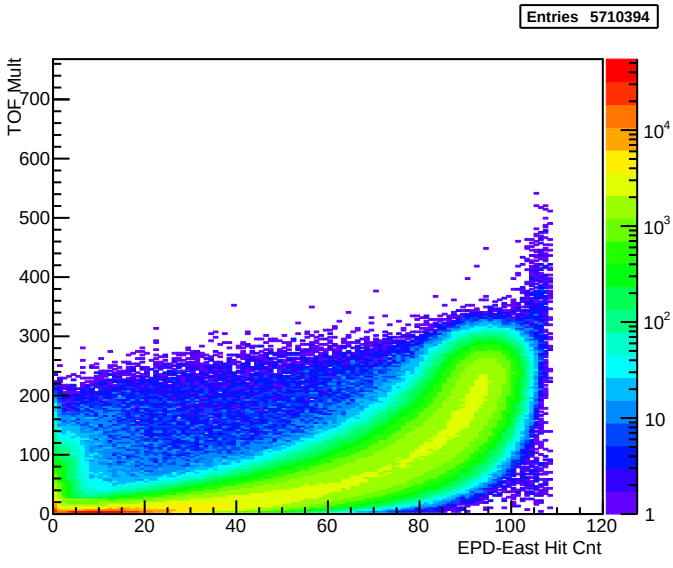

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

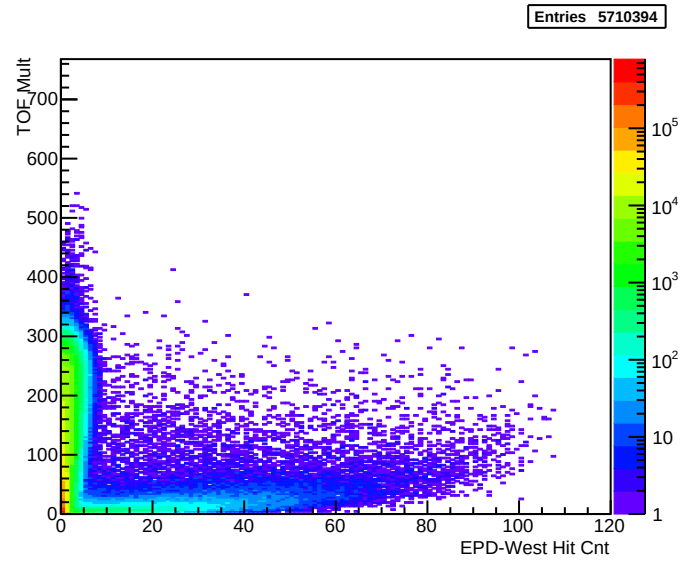

VT201 Input Ch4: VPD Adc Sum Th
Entries 1.142079e+07
5.05859e+06
40815
651803
5.66958e+06
East
West

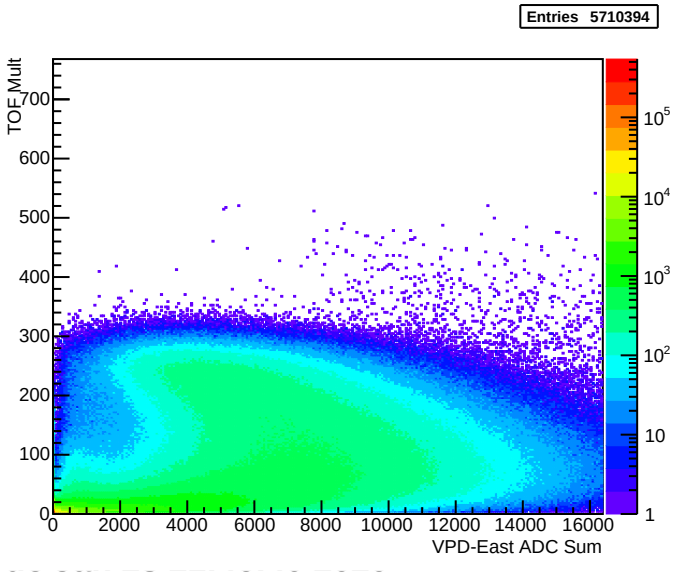

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

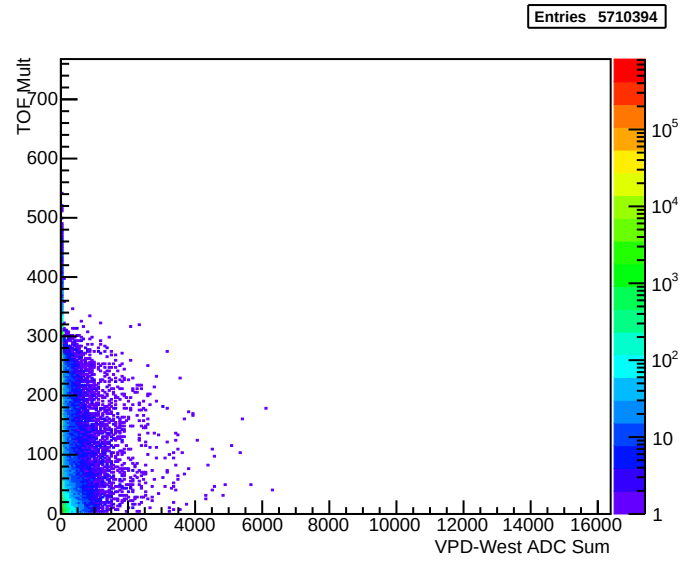

Entries 5710394
TOF_Mult
BBC-S-East ADC Sum

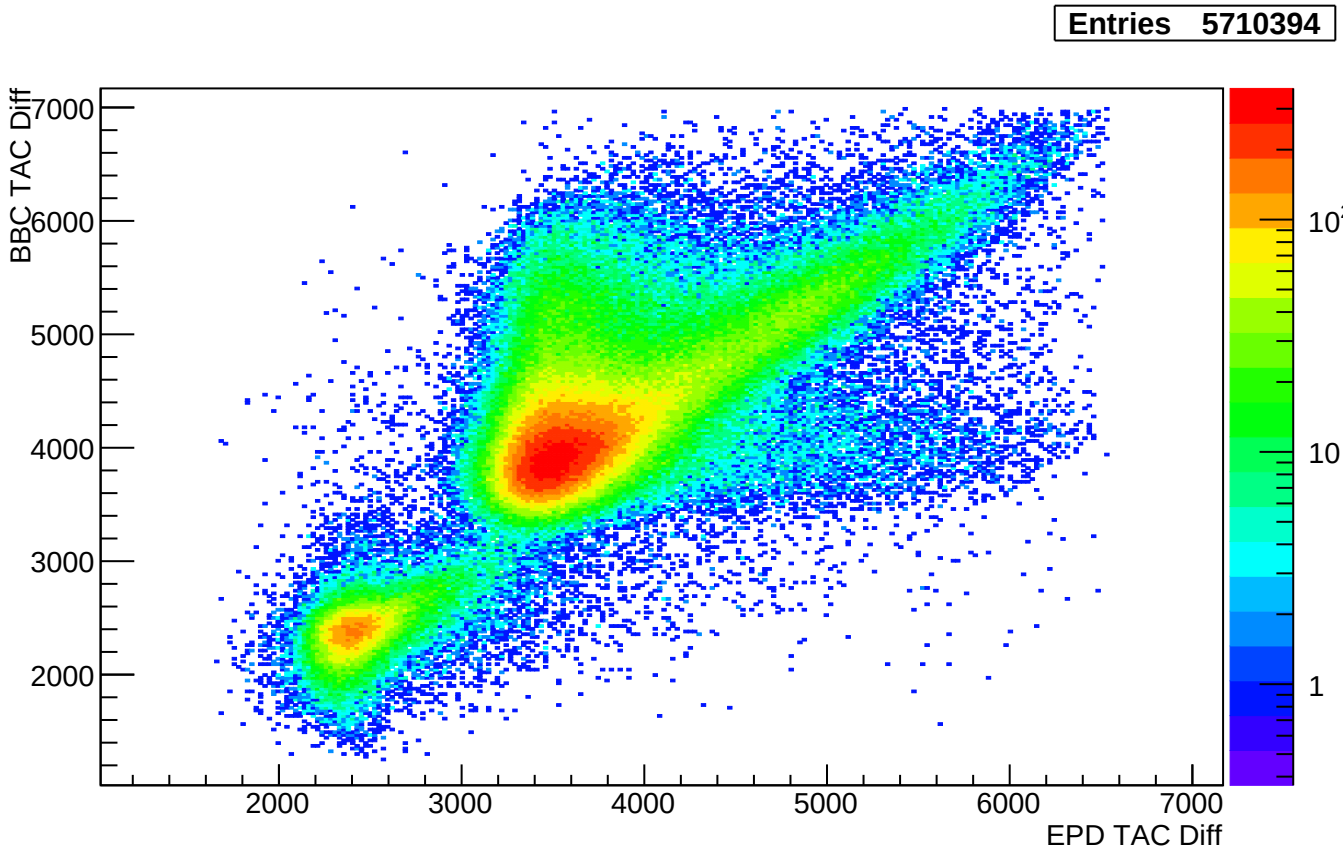

Entries 5710394
TOF_Mult
BBC-S-West ADC Sum

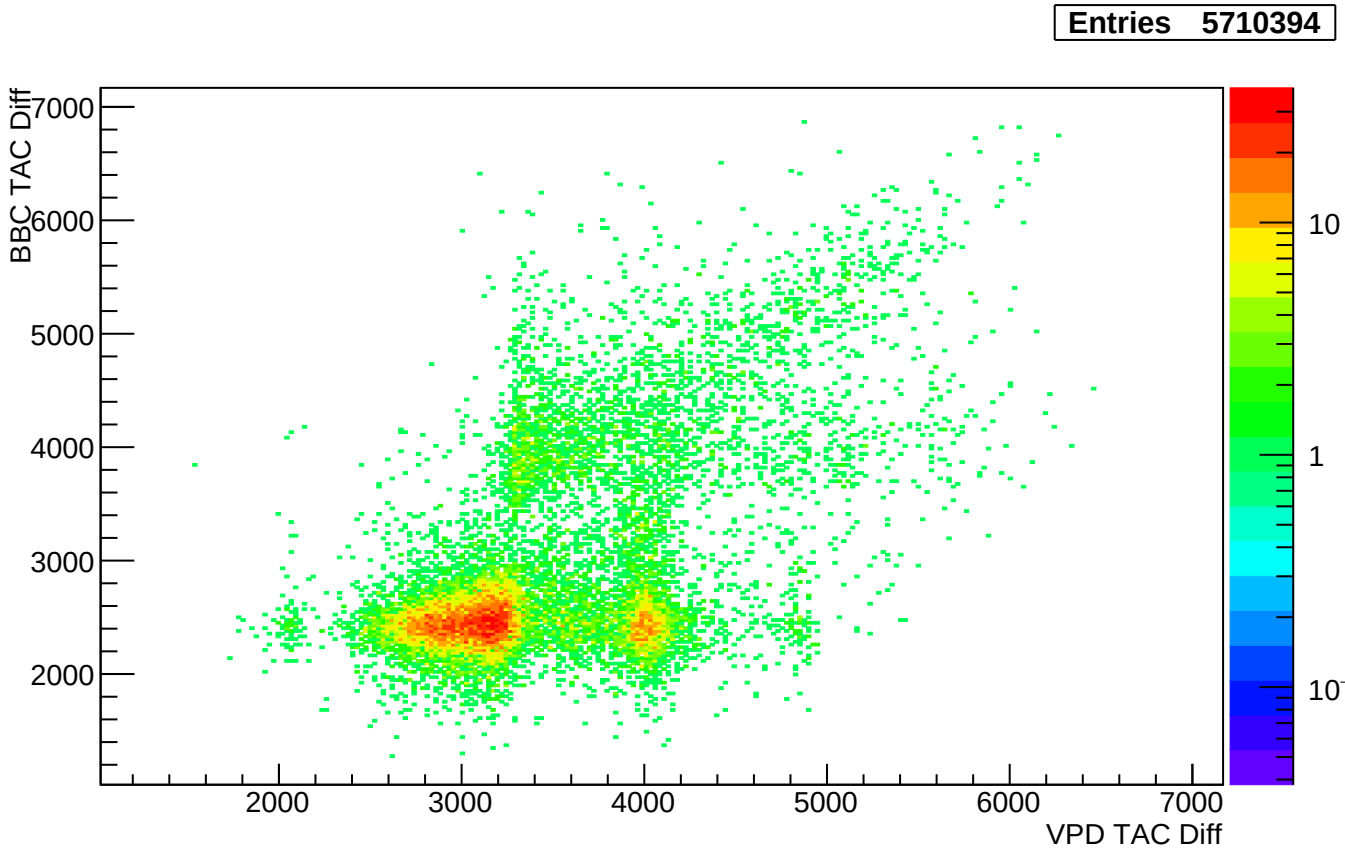

Entries 5710394
TOF_Mult
EPD-East Hit Cnt

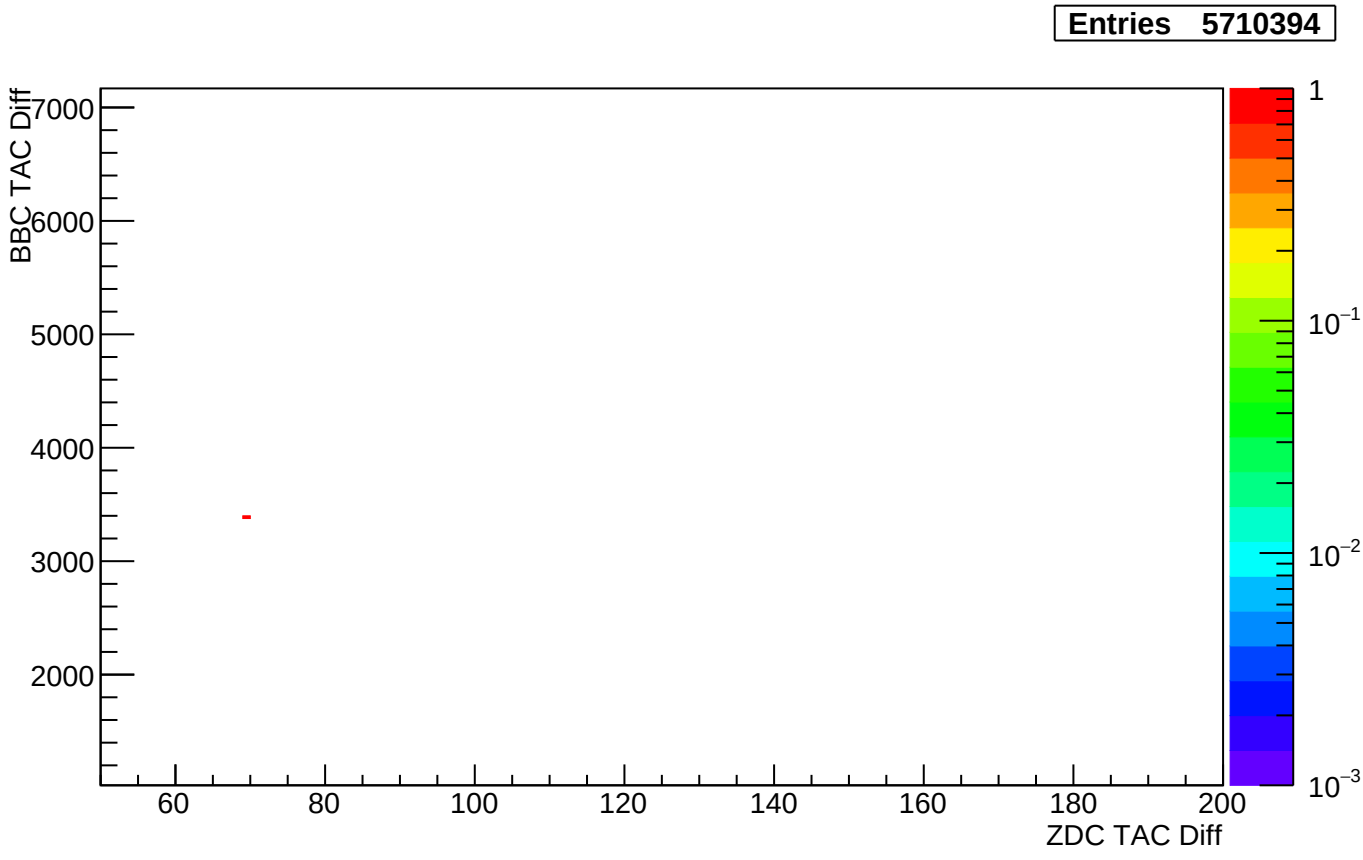

Entries 5710394
TOF_Mult
EPD-West Hit Cnt

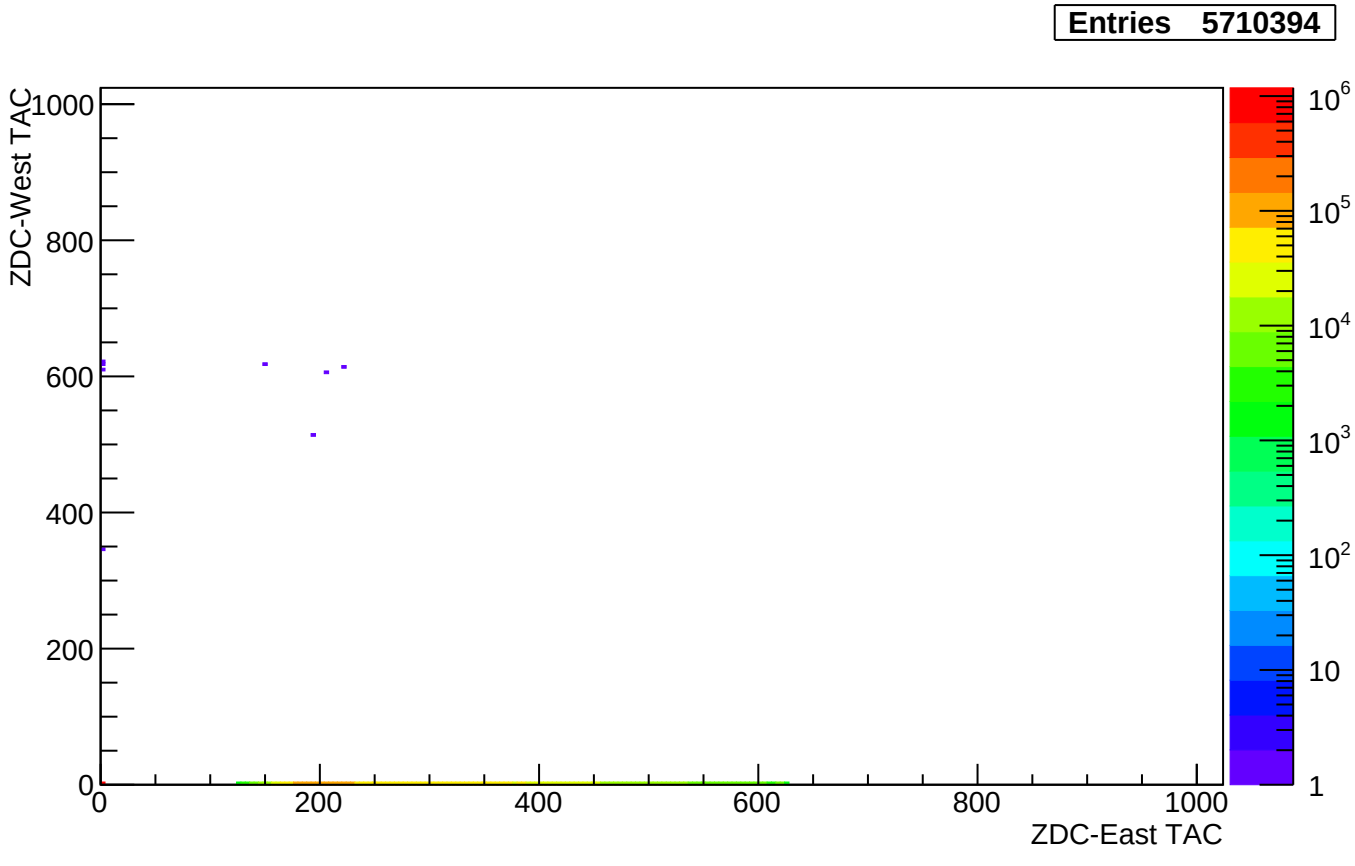

Entries 5710394
TOF_Mult
VPD-East ADC Sum

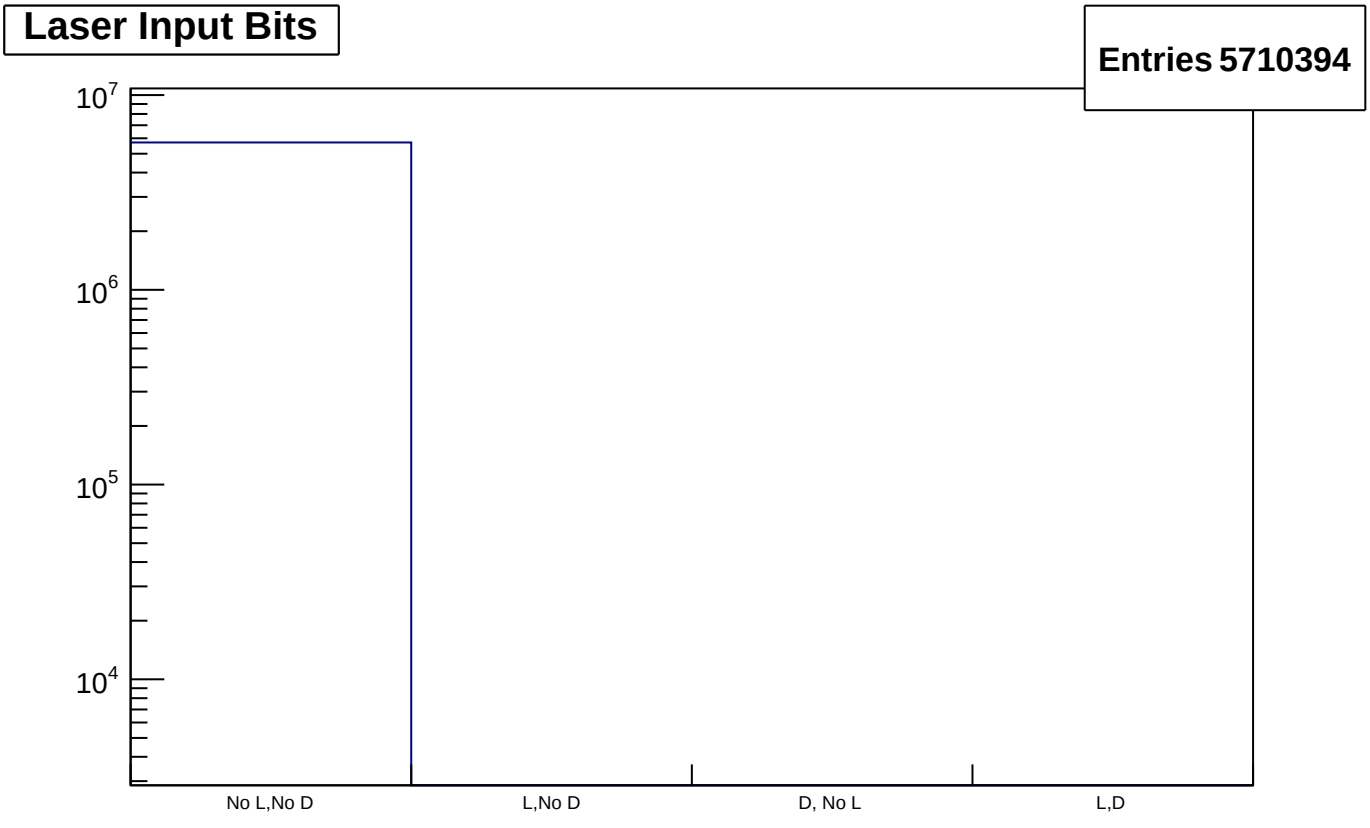

Entries 5710394
TOF_Mult
VPD-West ADC Sum

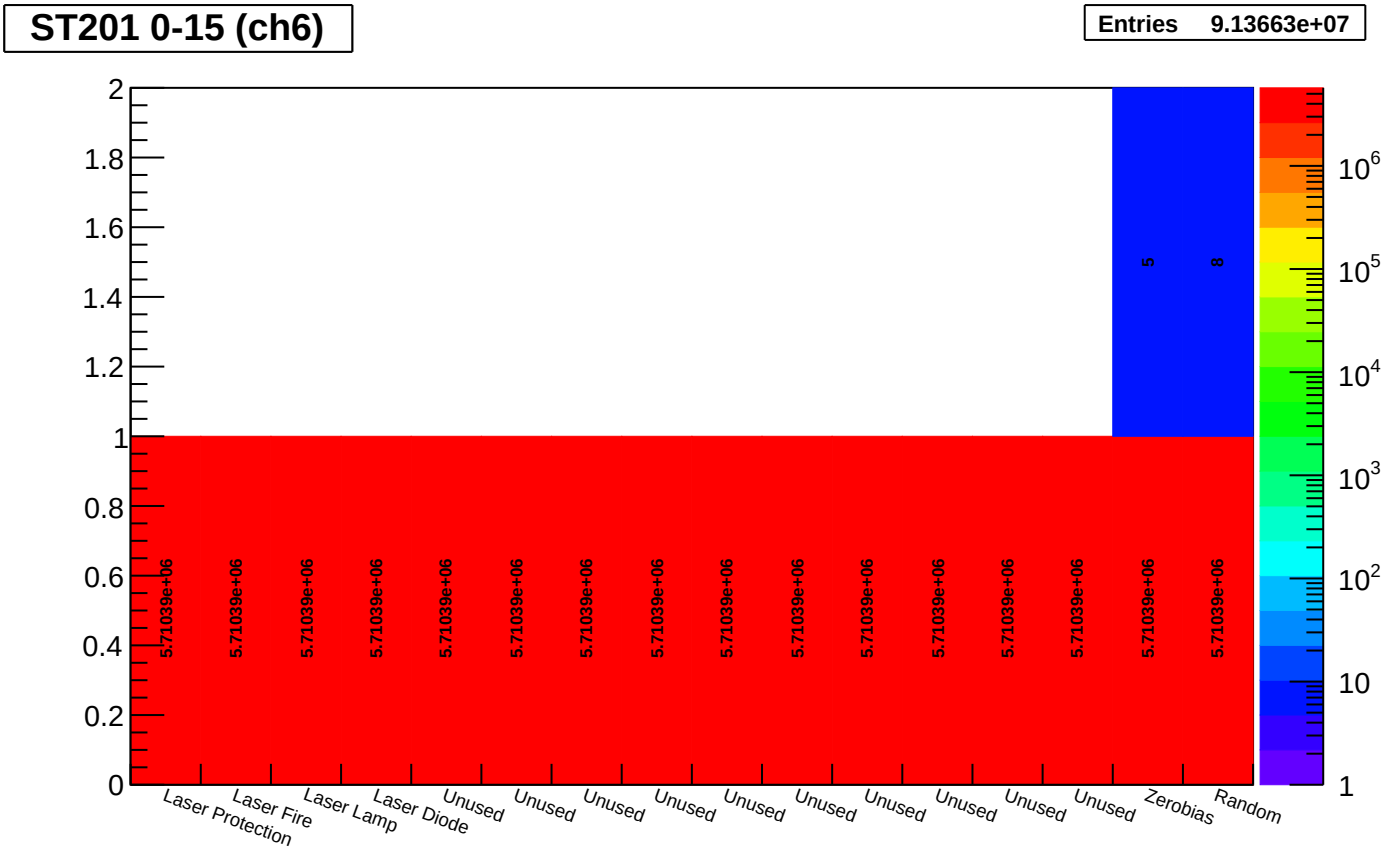

Entries 5710394
BBC TAC Diff
EPD TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
10^2
10
1

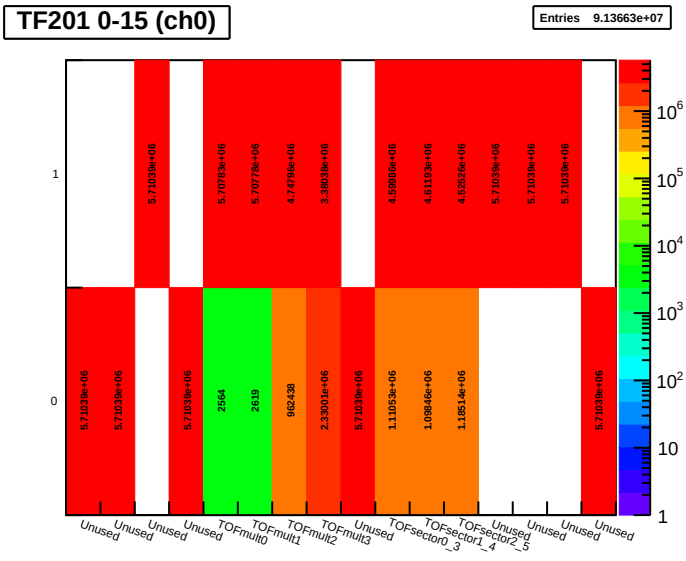

Entries 5710394
BBC TAC Diff
VPD TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
10
1
10^{-1}

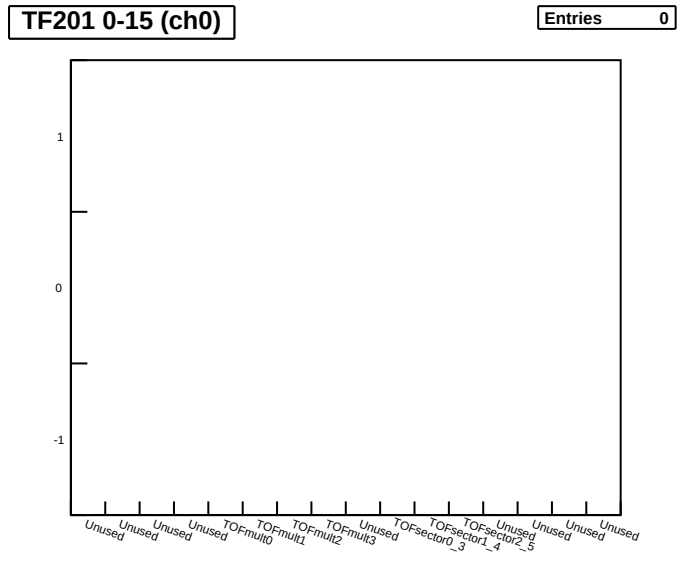

Entries 5710394
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}
10^{-3}

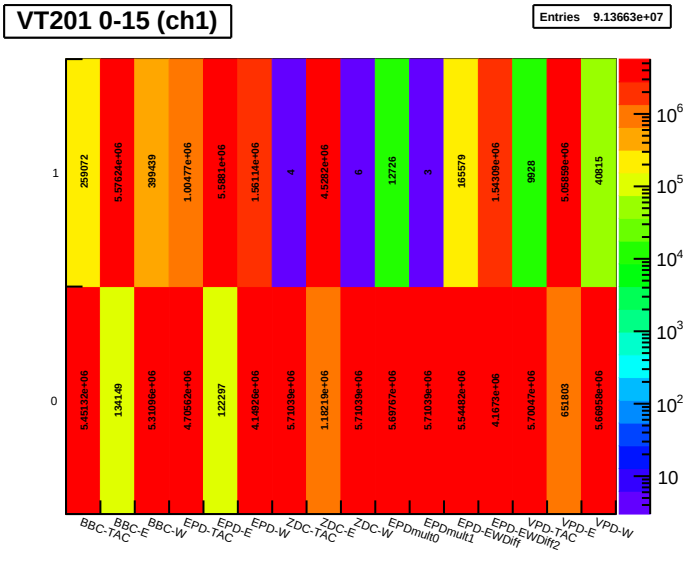

Entries 5710394
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^{6}
10^{5}
10^{4}
10^{3}
10^{2}
10
1

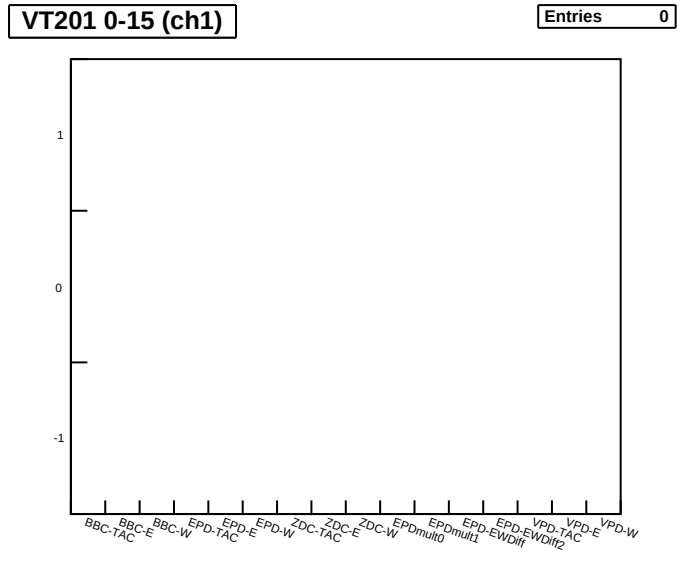

Laser Input Bits
Entries 5710394
10^7
10^6
10^5
10^4
No L,No D
L,No D
D, No L
L,D

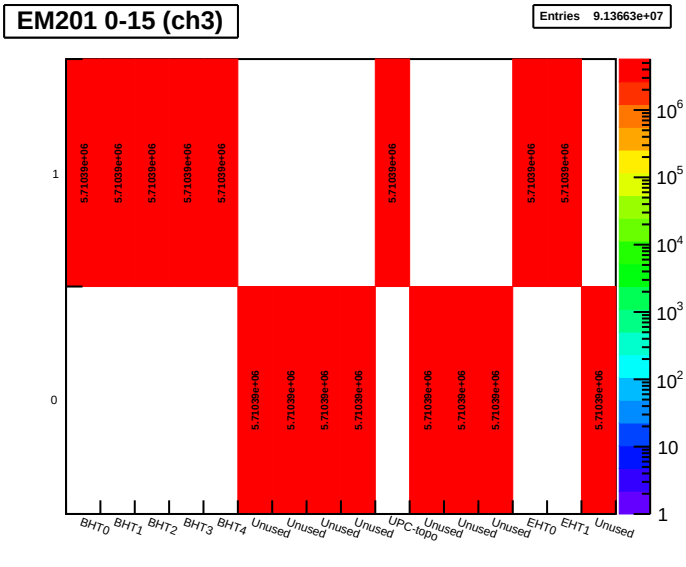

ST201 0-15 (ch6)
Entries 9.13663e+07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
5.71039e+06
5
8
10^6
10^5
10^4
10^3
10^2
10
1
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Zerobias
Random

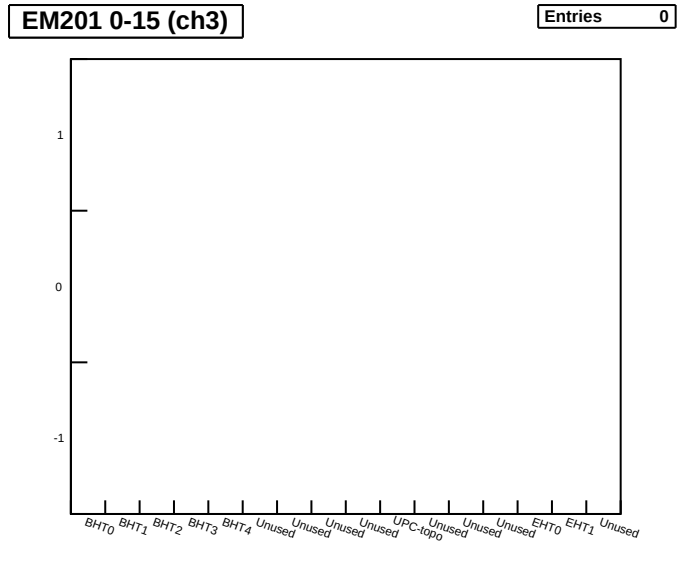

TF201 0-15 (ch0)
Entries 9.13663e+07
1
0
5.71039e+06
5.70783e+06
5.70778e+06
4.74796e+06
3.38038e+06
4.59986e+06
4.61193e+06
4.52526e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
2564
2619
962438
2.33001e+06
5.71039e+06
1.11053e+06
1.09846e+06
1.18514e+06
5.71039e+06
Unused
Unused
Unused
Unused
TOFmult0
TOFmult1
TOFmult2
TOFmult3
Unused
TOFsector0_3
TOFsector1_4
TOFsector2_5
Unused
Unused
Unused
Unused
10^6
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
Unused


VT201 0-15 (ch1)
Entries 9.13663e+07
1
0
259072
5.57624e+06
399439
1.00477e+06
5.5881e+06
1.56114e+06
4
4.5282e+06
6
12726
3
165579
1.54309e+06
9928
5.05859e+06
40815
5.45132e+06
134149
5.31096e+06
4.70562e+06
122297
4.14926e+06
5.71039e+06
1.18219e+06
5.71039e+06
5.69767e+06
5.71039e+06
5.54402e+06
4.1673e+06
5.70047e+06
651803
5.60858e+06
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
10^6
10^5
10^4
10^3
10^2
10


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 9.13663e+07
1
0
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
5.71039e+06
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused
10^6
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