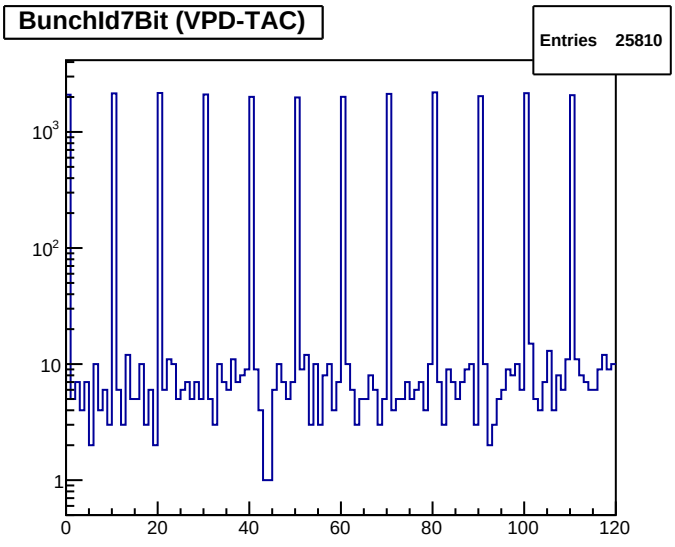
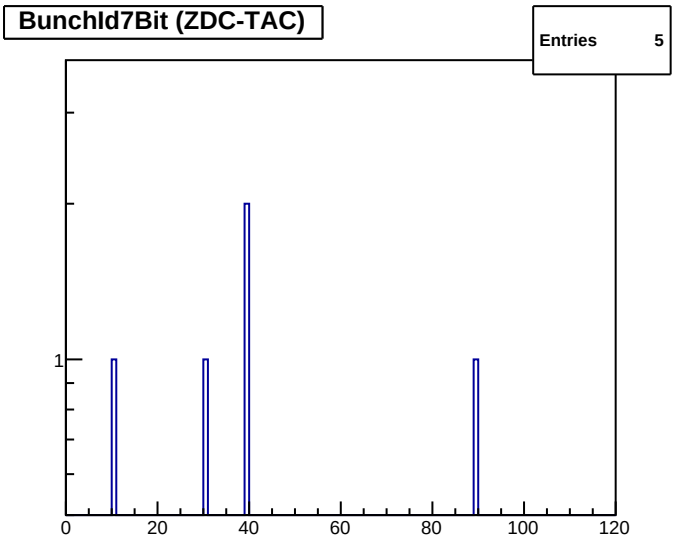
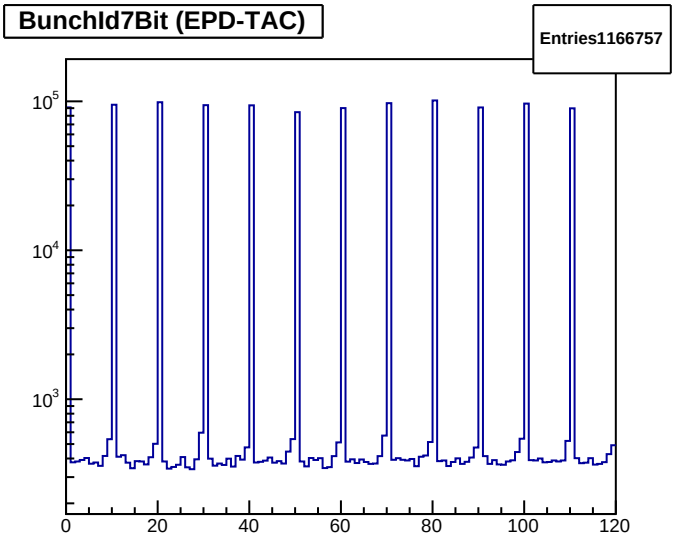
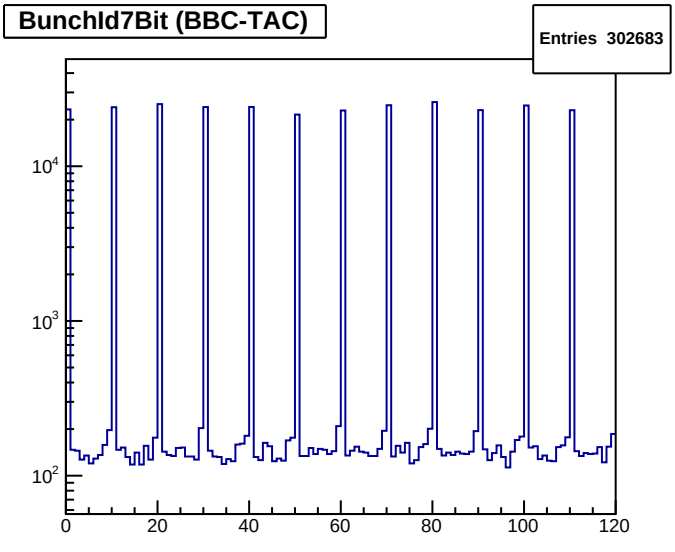
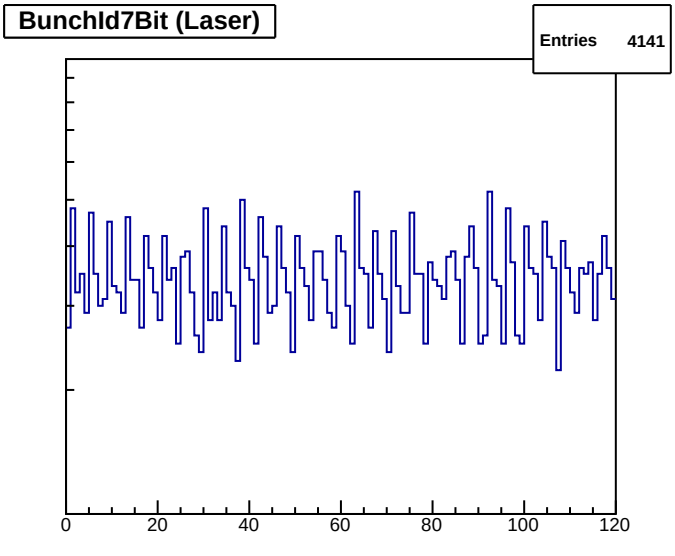
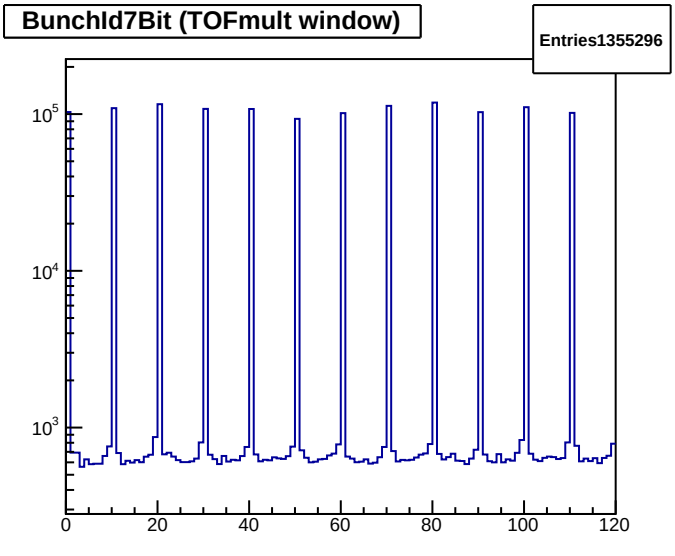

BunchId7Bit (VPD-TAC)
Entries 25810
10^3
10^2
10
1
0
20
40
60
80
100
120

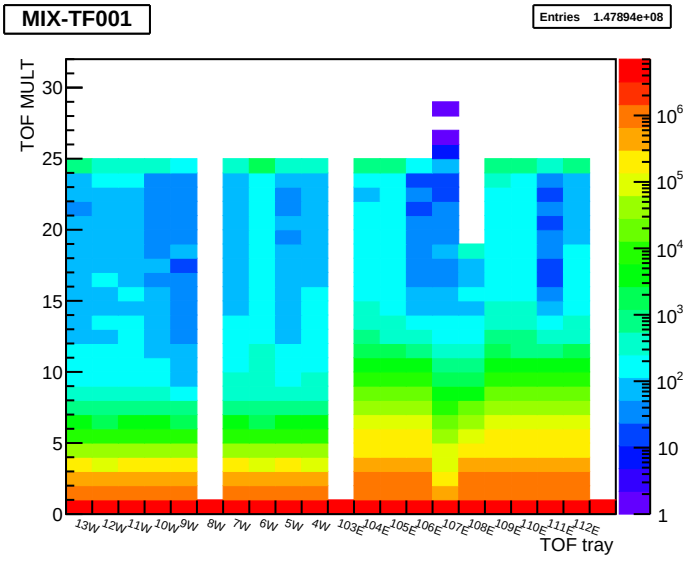

BunchId7Bit (ZDC-TAC)
Entries 5
1
0
20
40
60
80
100
120

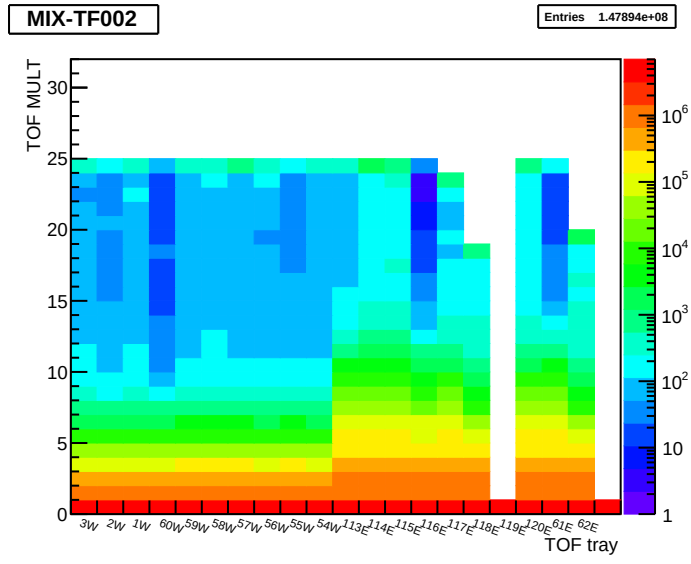

BunchId7Bit (EPD-TAC)
Entries1166757
10^5
10^4
10^3
0
20
40
60
80
100
120

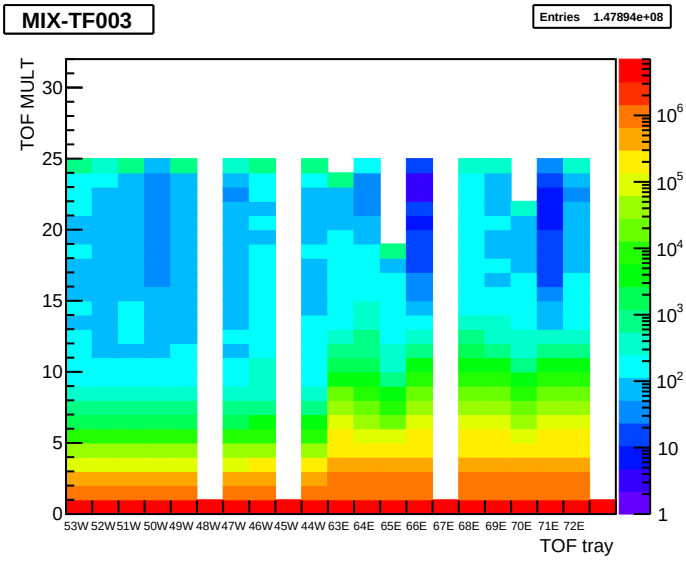

BunchId7Bit (BBC-TAC)
Entries 302683
10^4
10^3
10^2
0
20
40
60
80
100
120

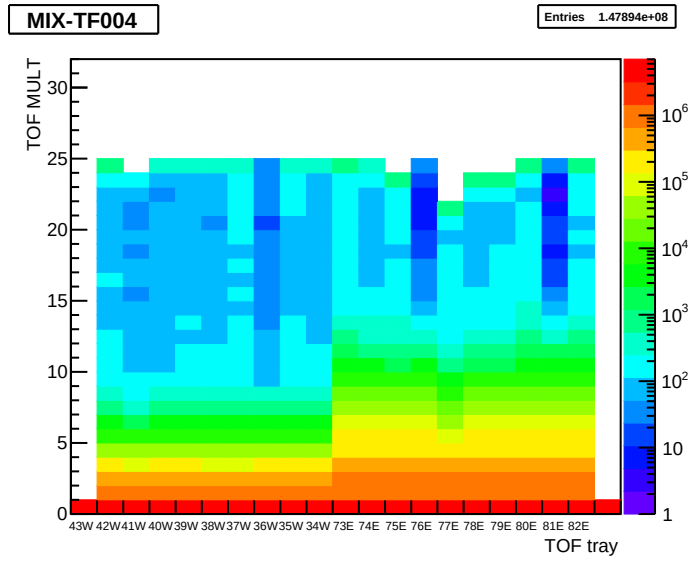

BunchId7Bit (Laser)
Entries 4141
0
20
40
60
80
100
120

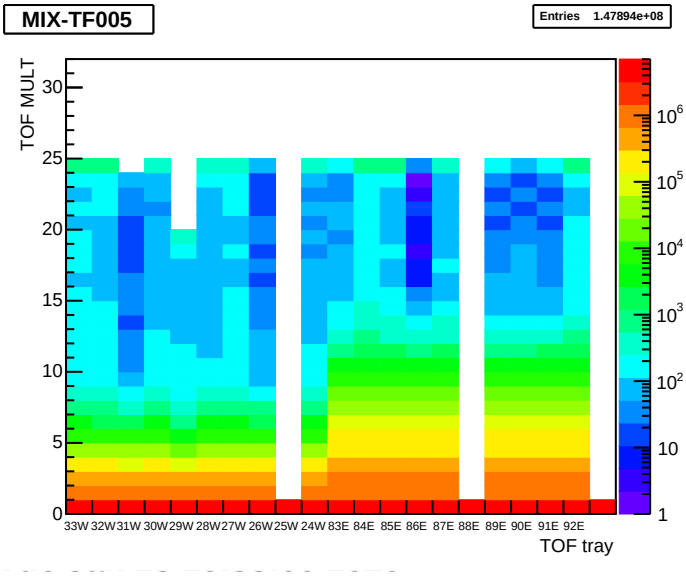

BunchId7Bit (TOFmult window)
Entries1355296
10^5
10^4
10^3
0
20
40
60
80
100
120

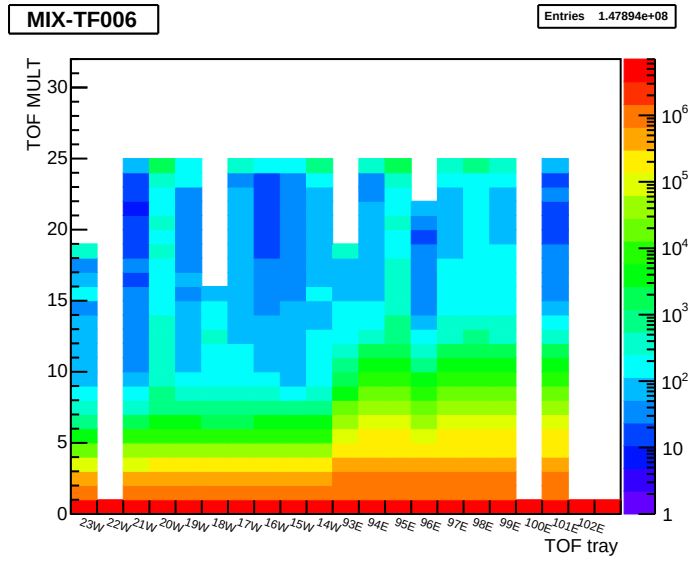

MIX-TF001
Entries 1.47894e+08
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

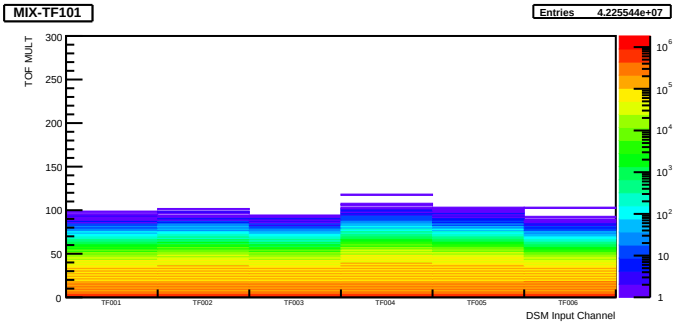

MIX-TF002
Entries 1.47894e+08
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

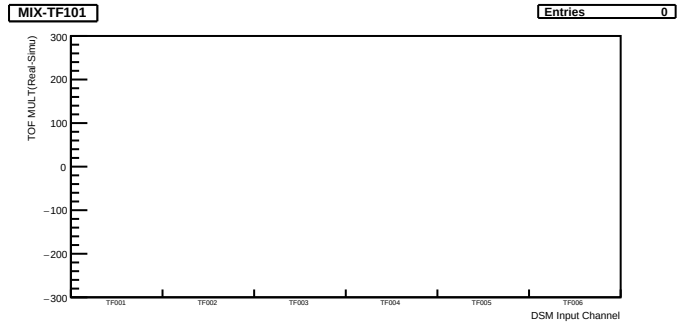

MIX-TF003
Entries 1.47894e+08
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

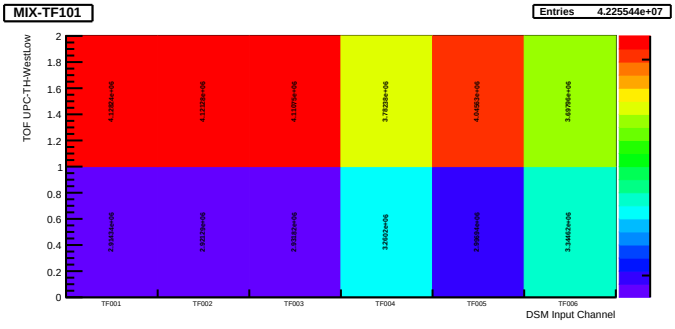

MIX-TF004
Entries 1.47894e+08
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

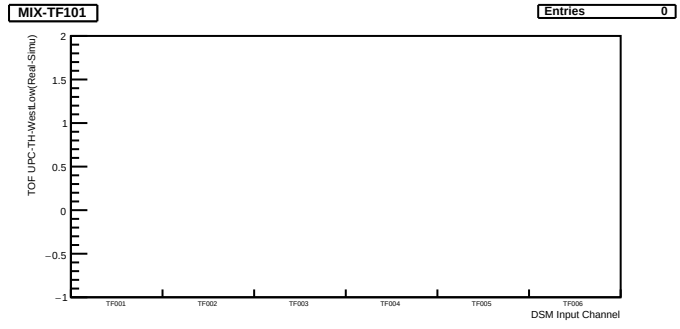

MIX-TF005
Entries 1.47894e+08
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

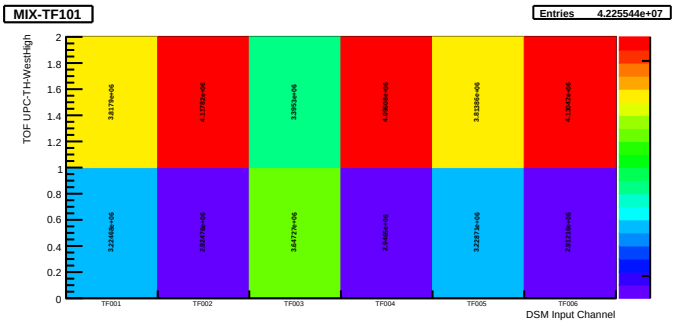

MIX-TF006
Entries 1.47894e+08
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

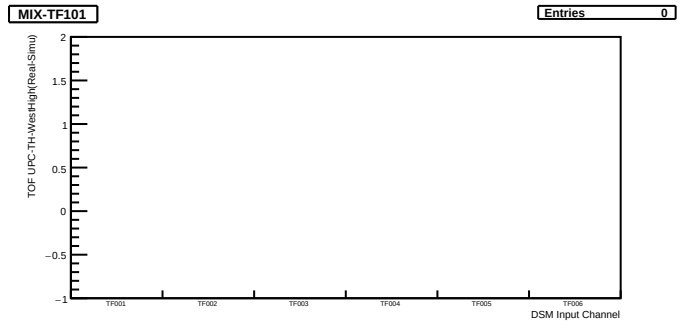

MIX-TF101
Entries 4.225544e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

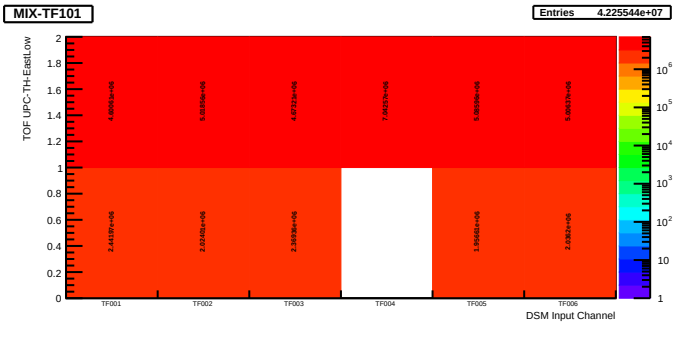

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

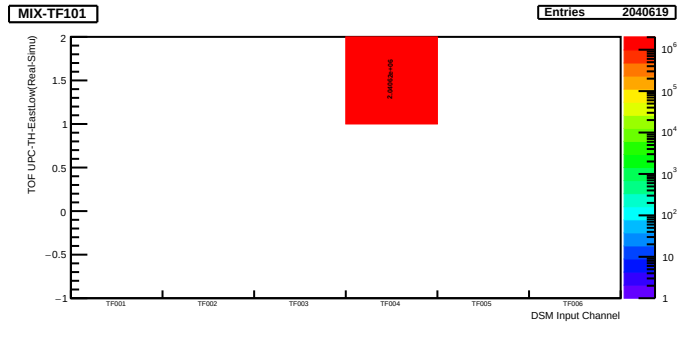

MIX-TF101
Entries 4.225544e+07
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

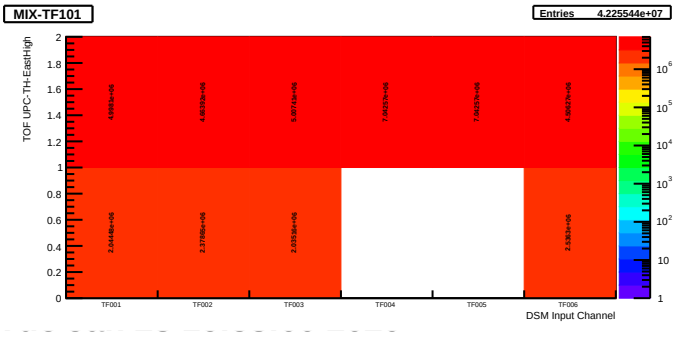

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

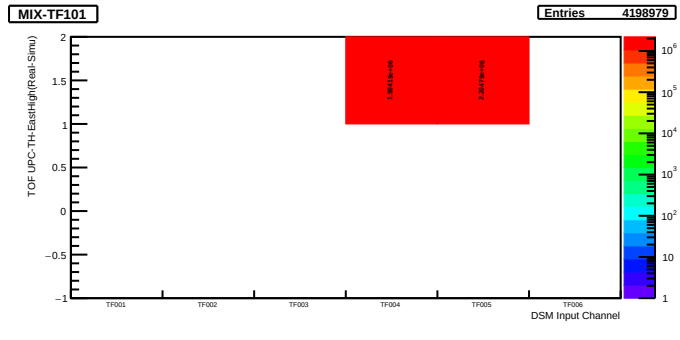

MIX-TF101
Entries 4.225544e+07
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

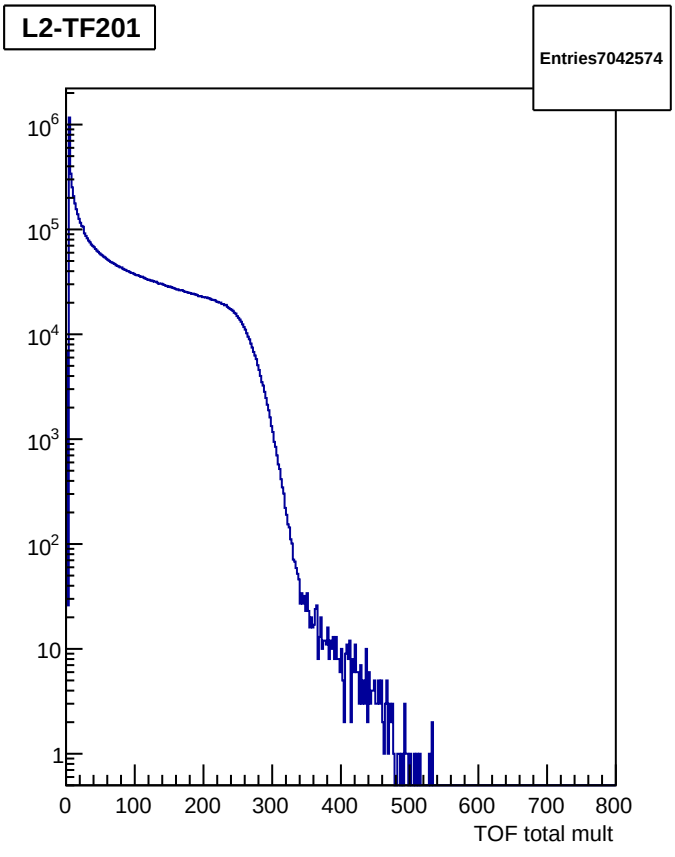

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

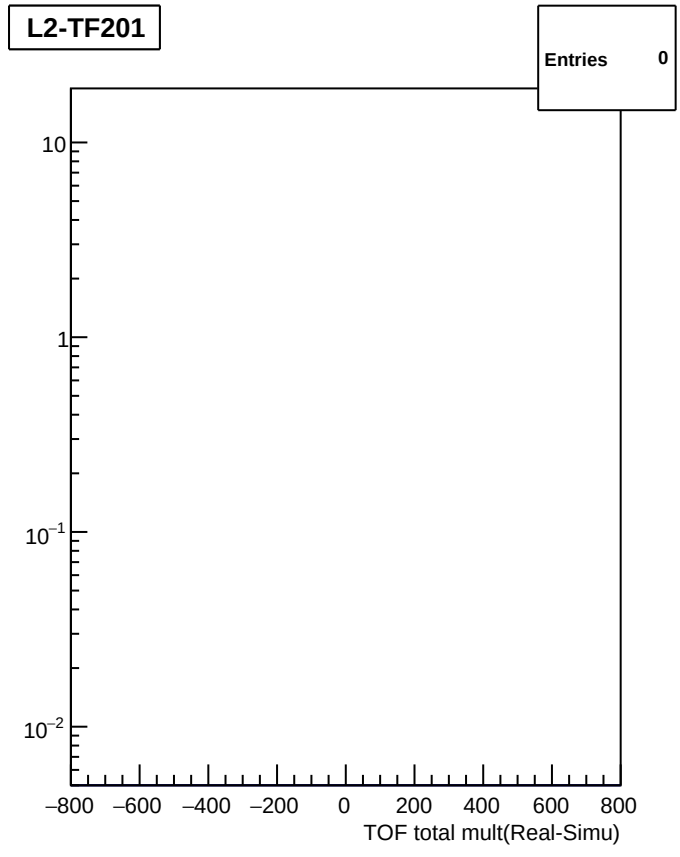

MIX-TF101
Entries 4.225544e+07
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

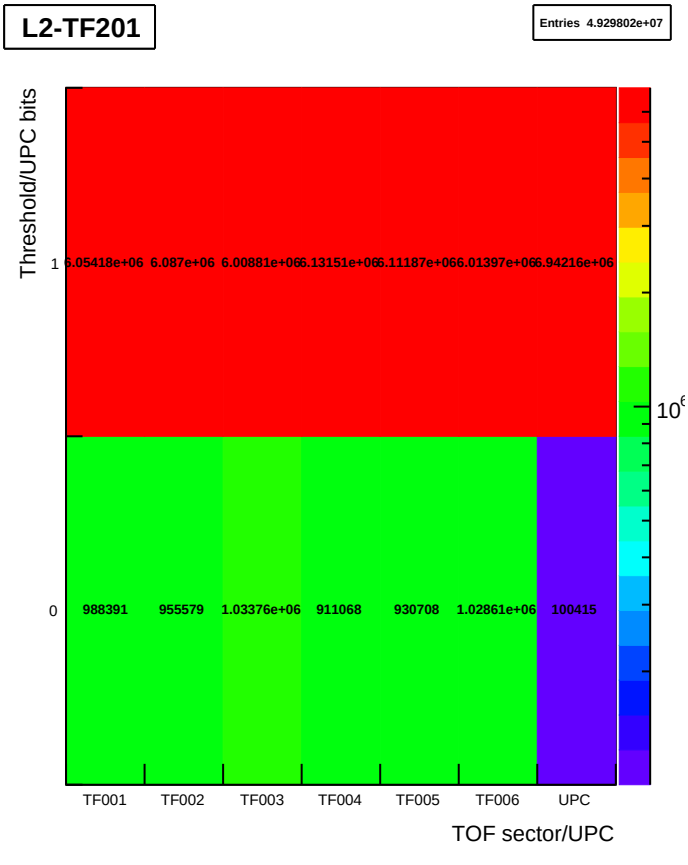

MIX-TF101
Entries 2040619
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

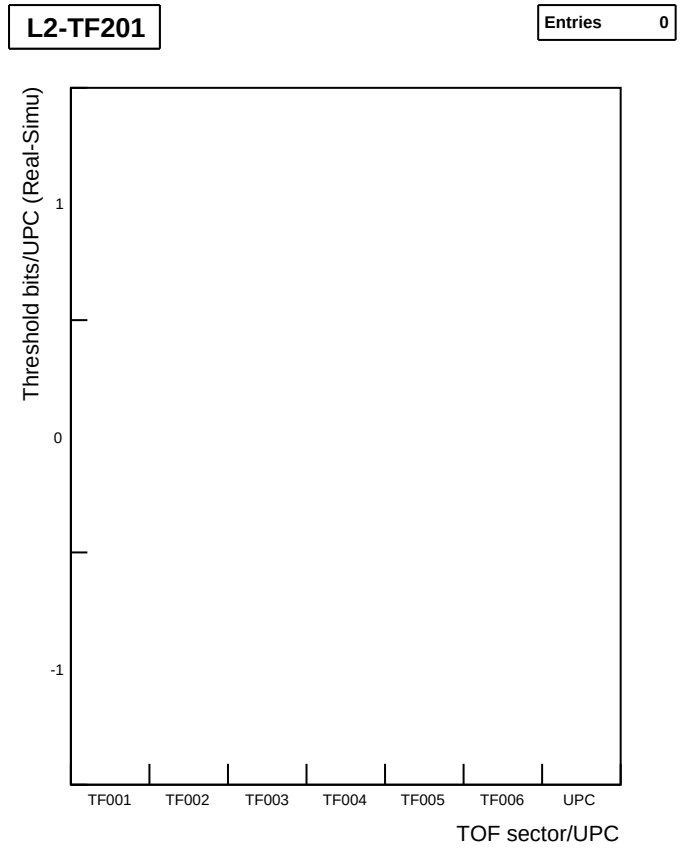

MIX-TF101
Entries 4.225544e+07
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

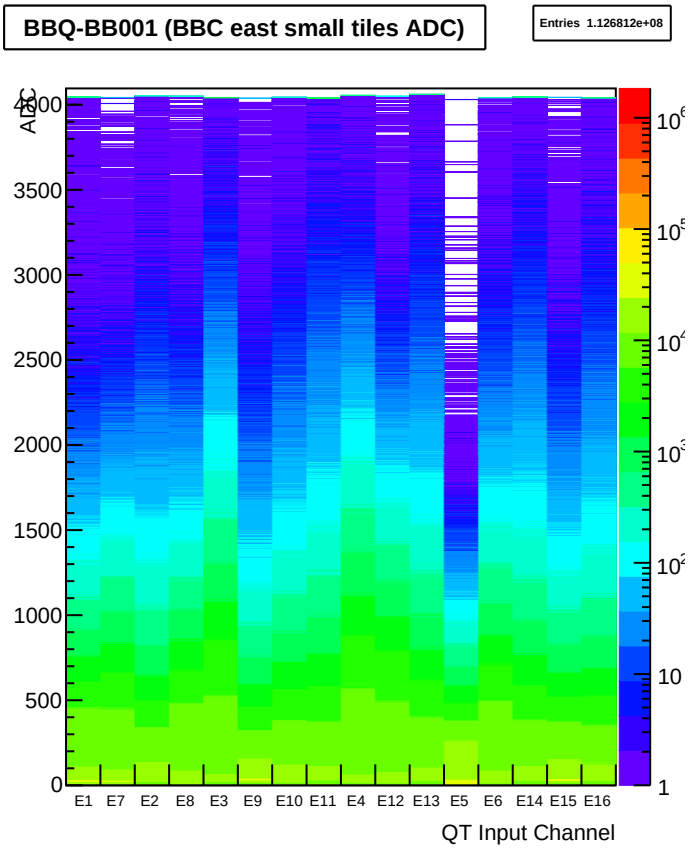

MIX-TF101
Entries 4198979
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

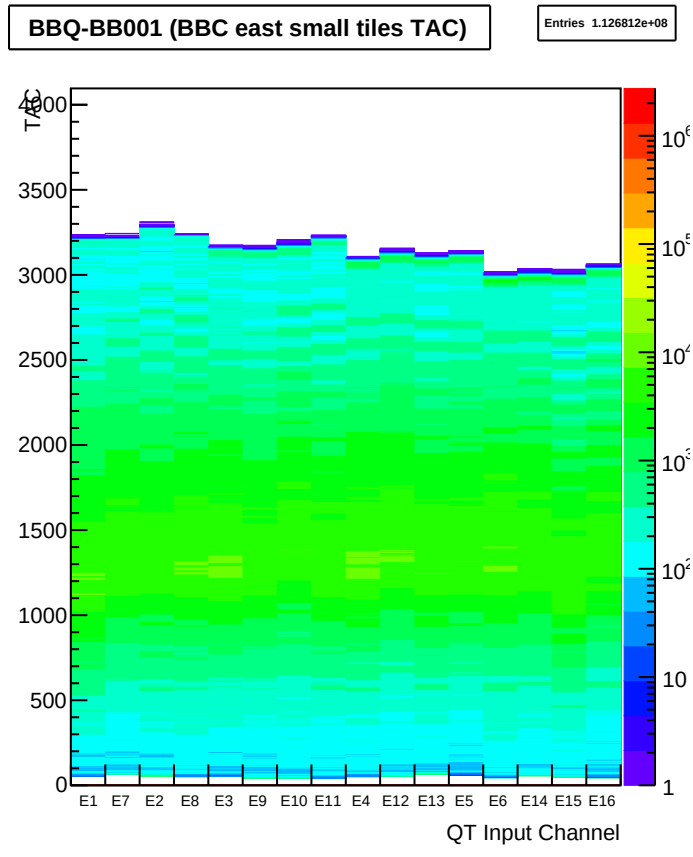

L2-TF201
Entries7042574
TOF total mult

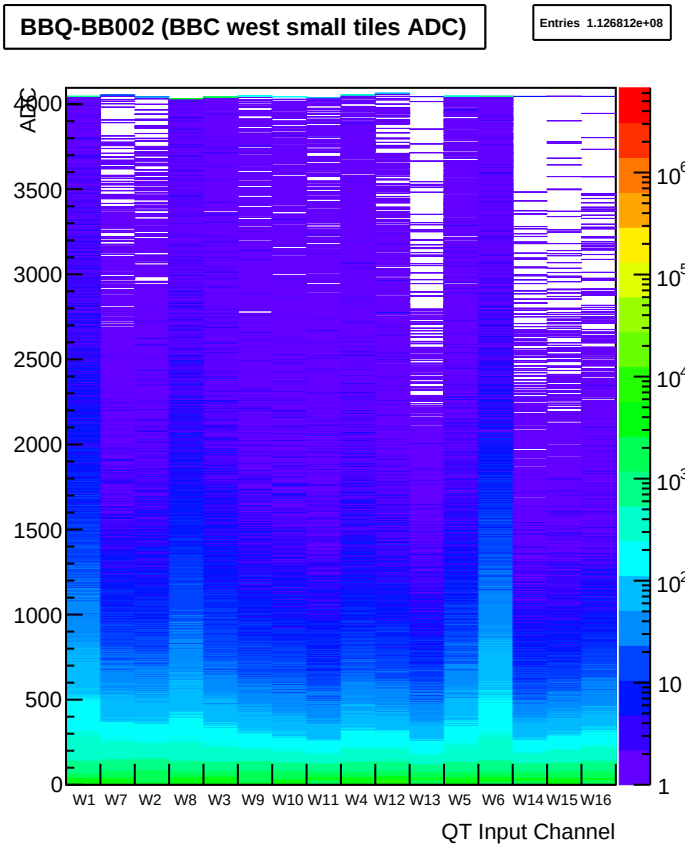

L2-TF201
Entries 0
TOF total mult(Real-Simu)

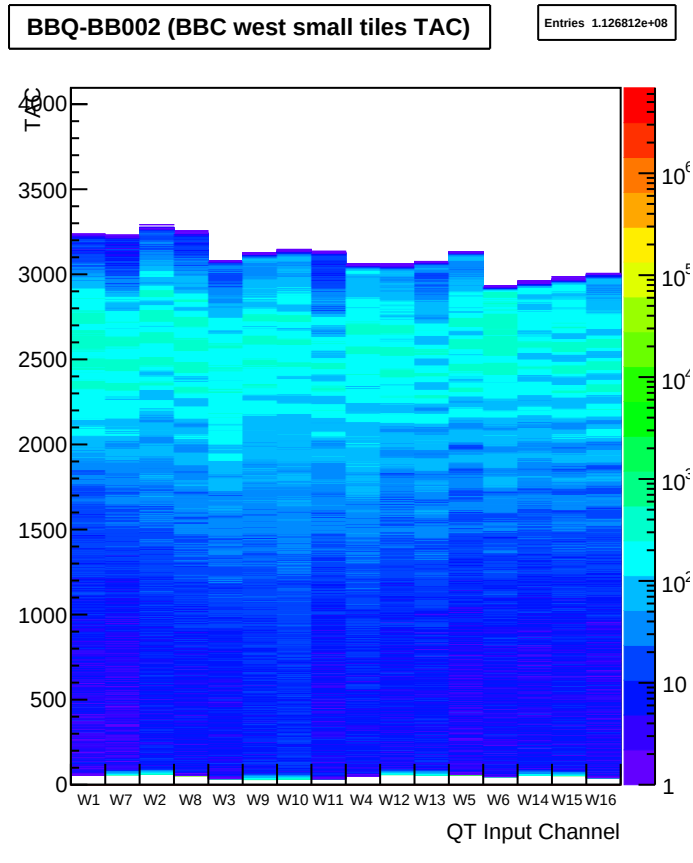

L2-TF201
Entries 4.929802e+07
Threshold/UPC bits
6.05418e+06 6.087e+06 6.00881e+06 6.13151e+06 6.11187e+06 6.01397e+06 6.94216e+06
988391 955579 1.03376e+06 911068 930708 1.02861e+06 100415
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

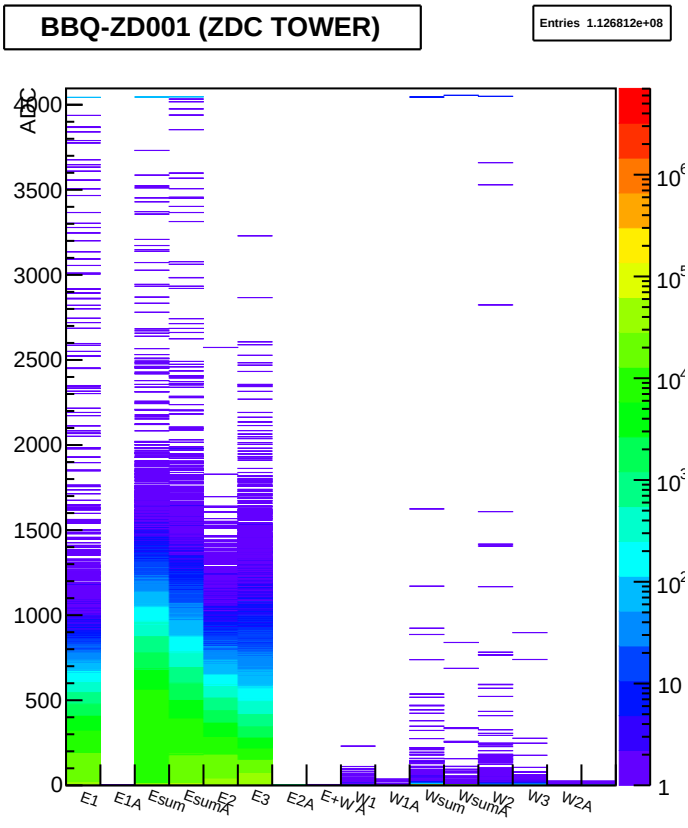

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

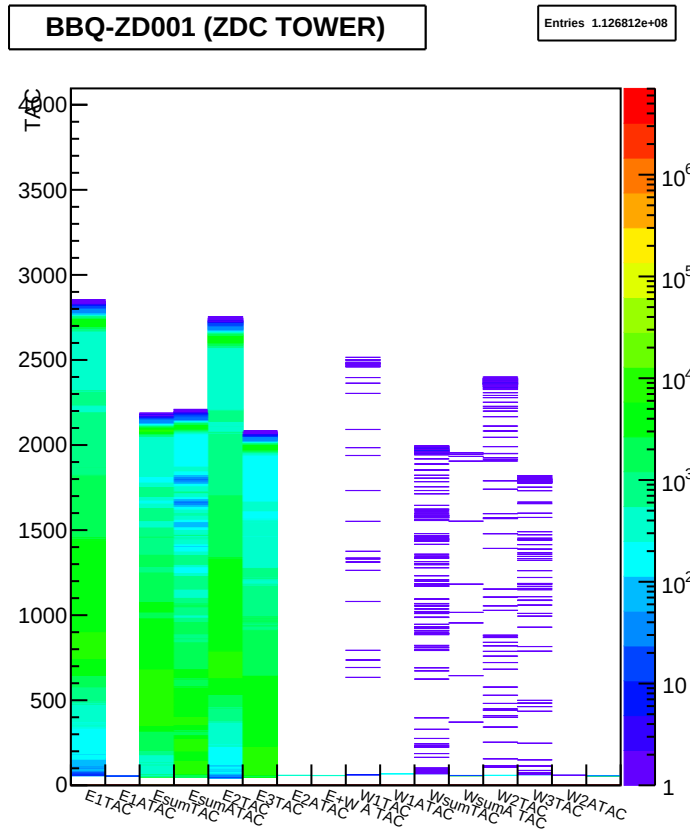

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.126812e+08
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

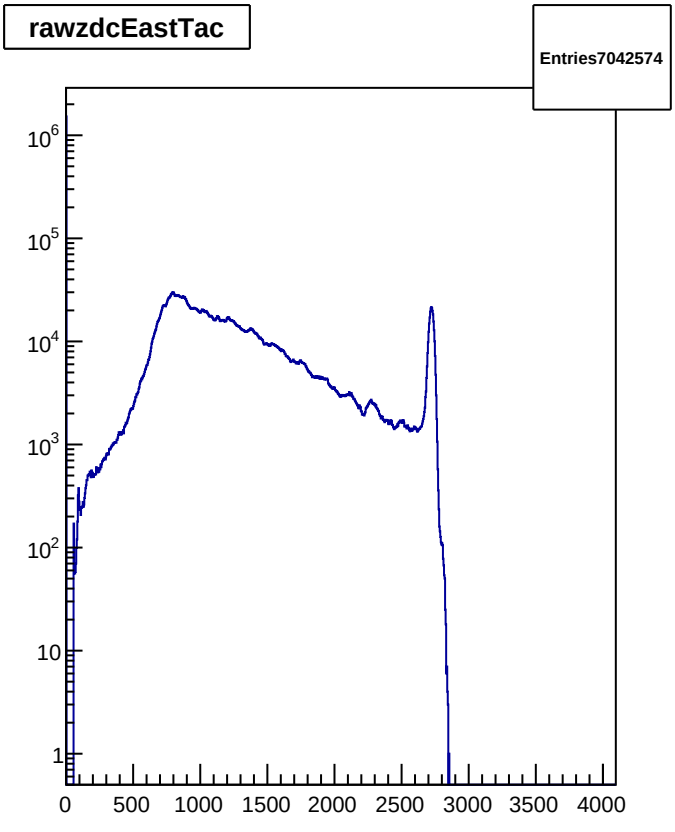

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.126812e+08
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

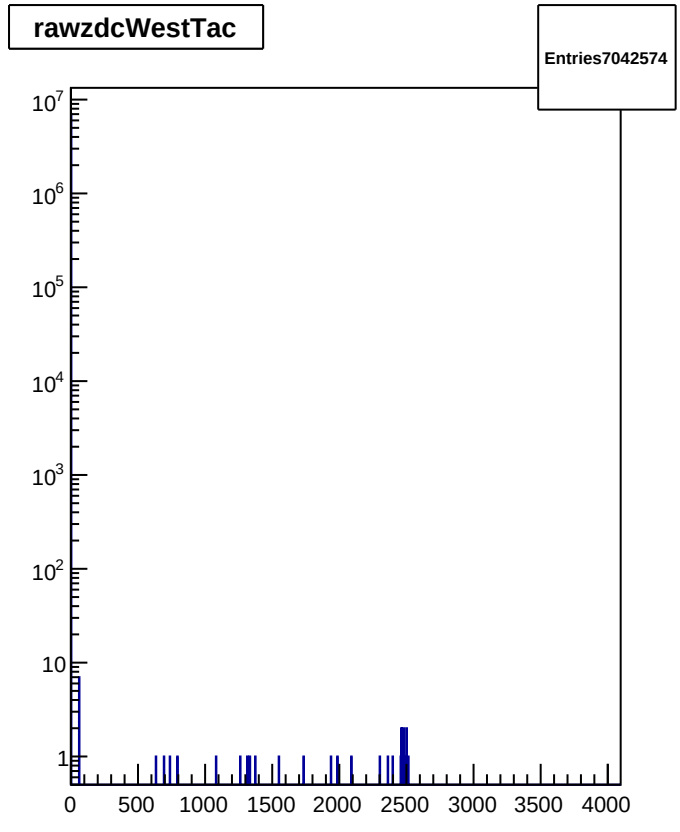

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.126812e+08
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

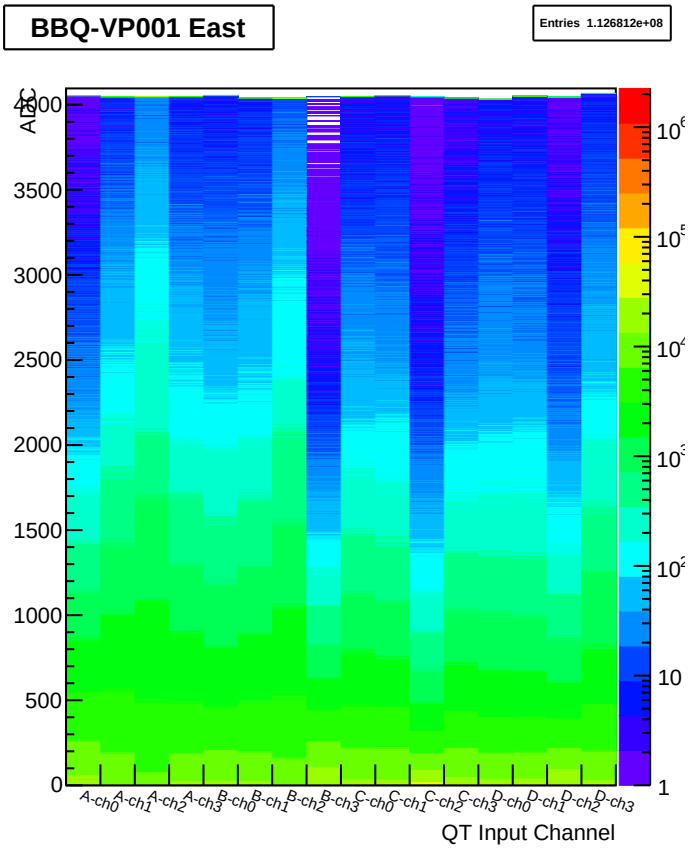

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.126812e+08
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

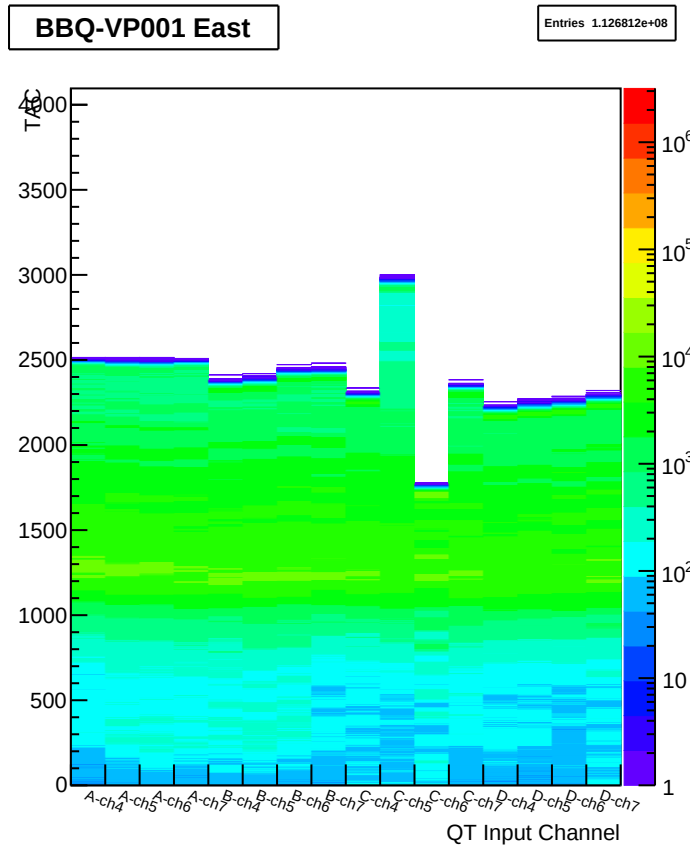

BBQ-ZD001 (ZDC TOWER)
Entries 1.126812e+08
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W A
W1
W1A
Wsum
WsumA
W2
W3
W2A

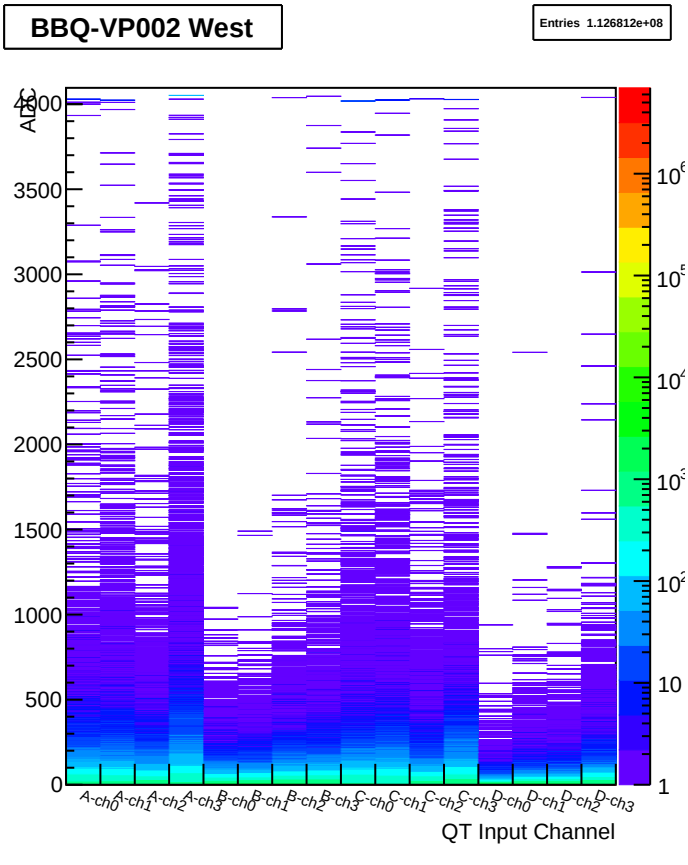

BBQ-ZD001 (ZDC TOWER)
Entries 1.126812e+08
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W A TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

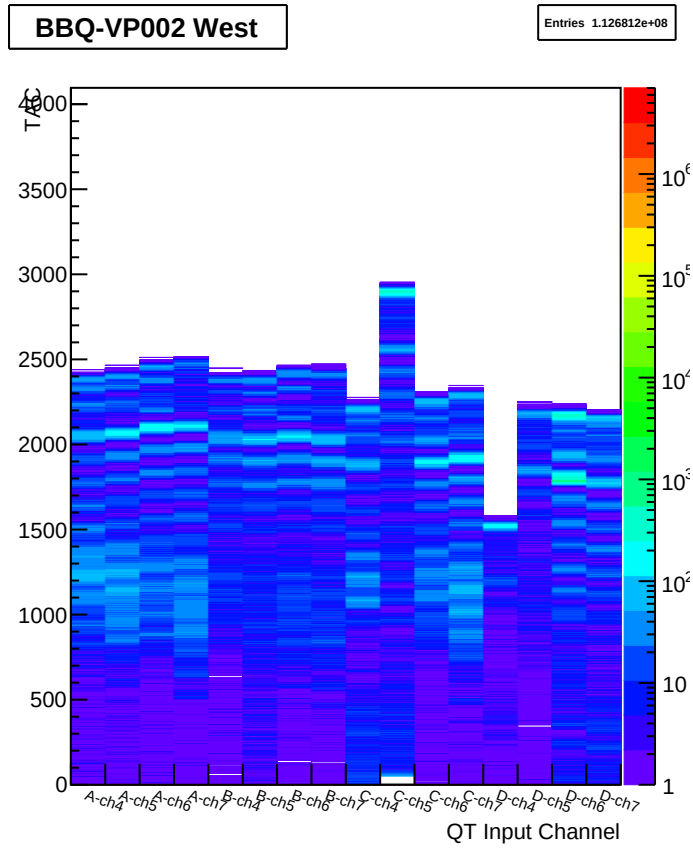

rawzdcEastTac
Entries7042574

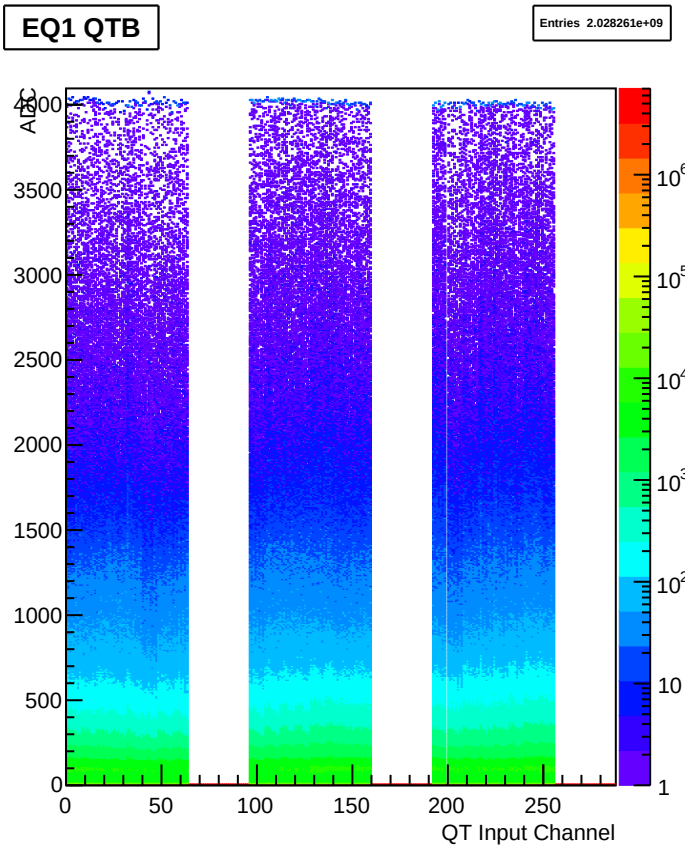

rawzdcWestTac
Entries7042574

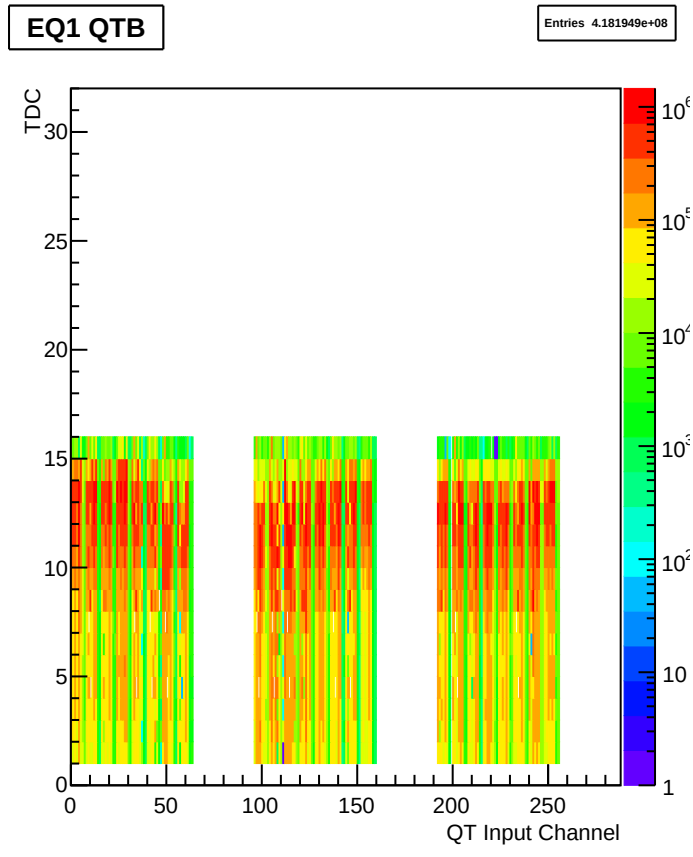

BBQ-VP001 East
Entries 1.126812e+08
ADC
QT Input Channel

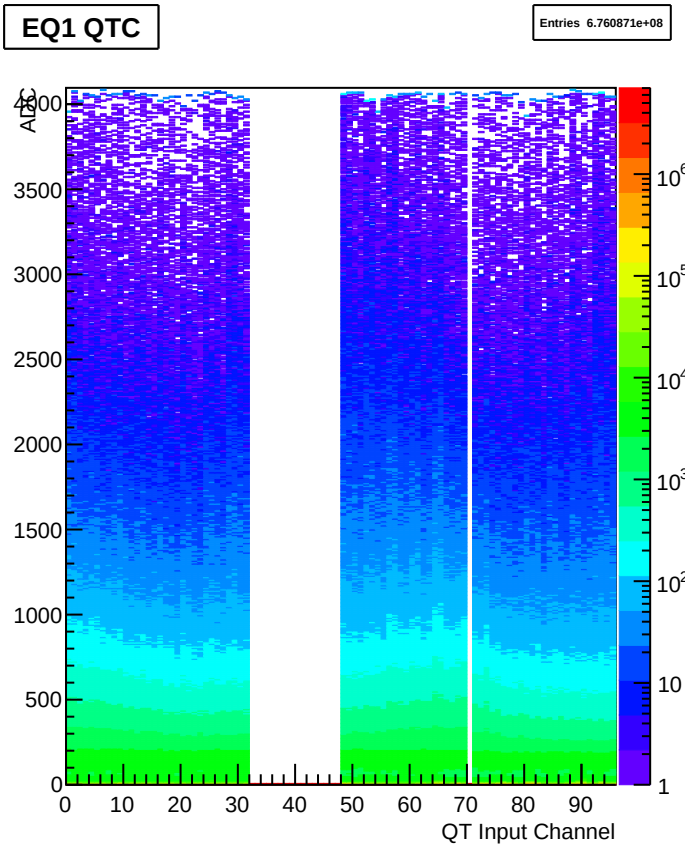

BBQ-VP001 East
Entries 1.126812e+08
TADC
QT Input Channel

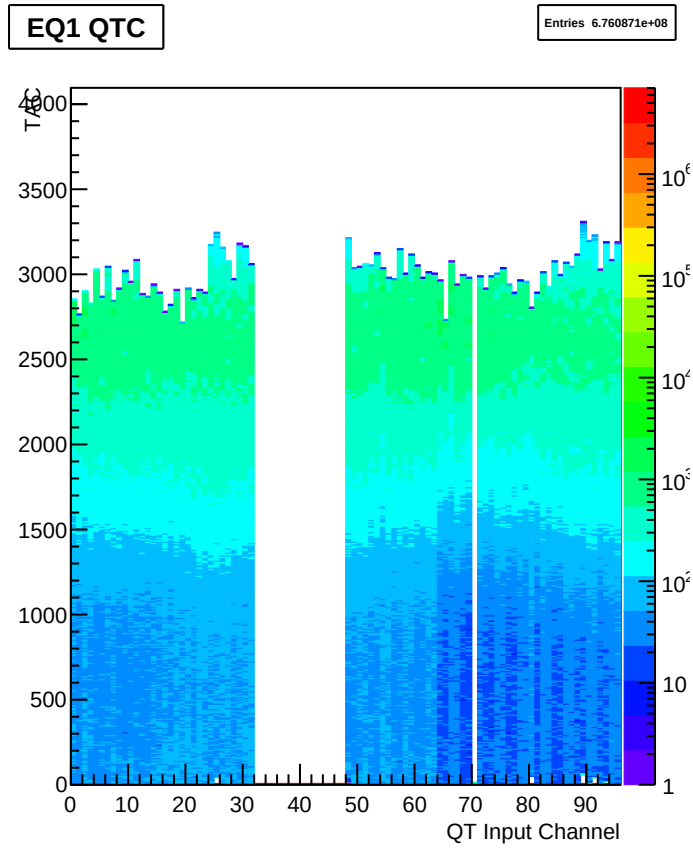

BBQ-VP002 West
Entries 1.126812e+08
ADC
QT Input Channel

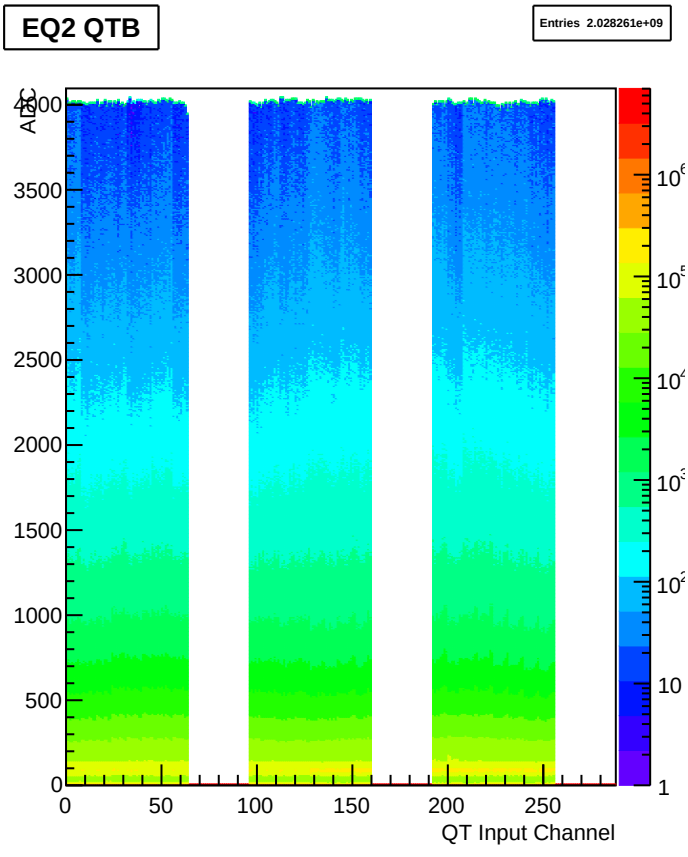

BBQ-VP002 West
Entries 1.126812e+08
TADC
QT Input Channel

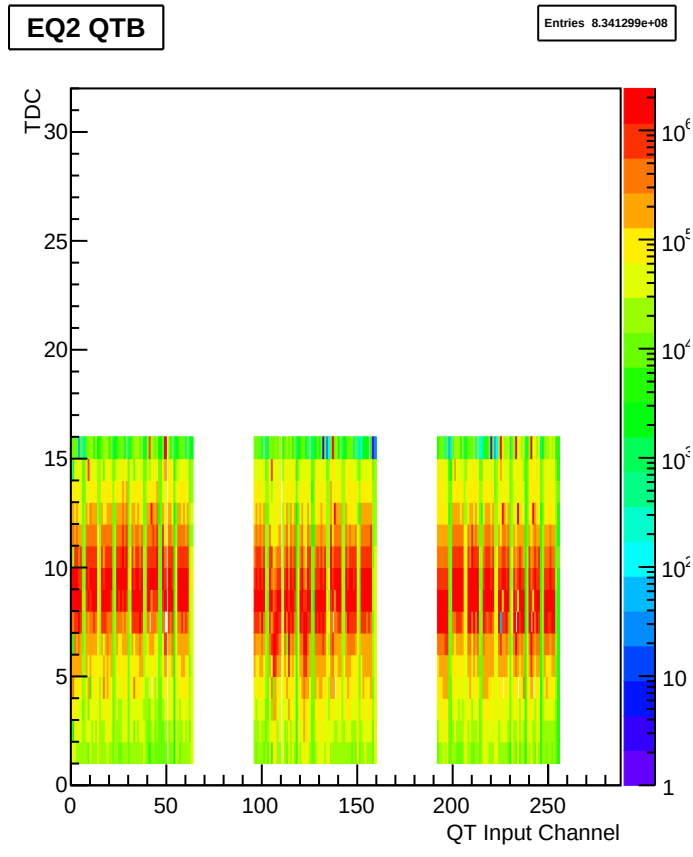

EQ1 QTB
Entries 2.028261e+09
ADC
QT Input Channel

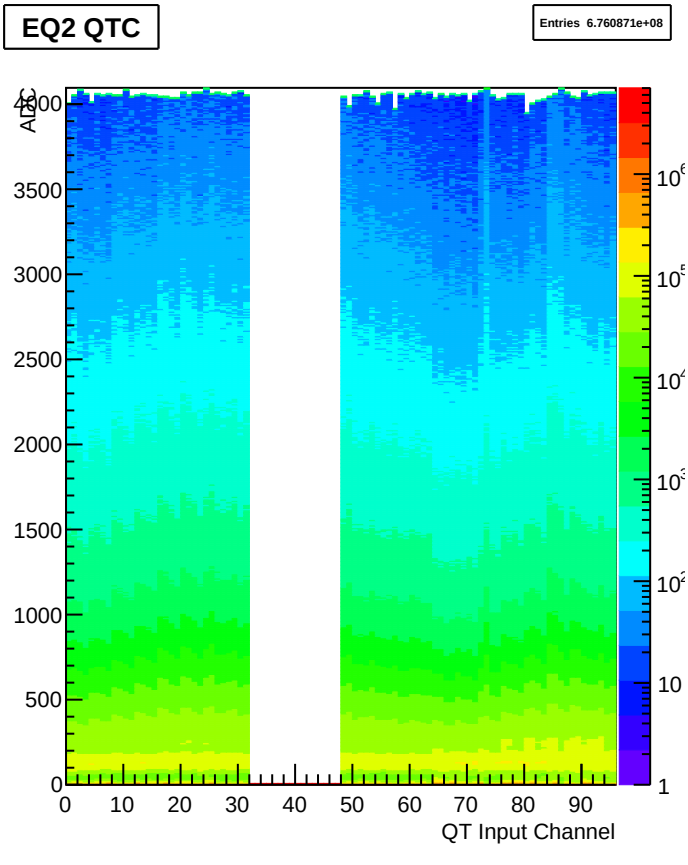

EQ1 QTB
Entries 4.181949e+08
TDC
QT Input Channel

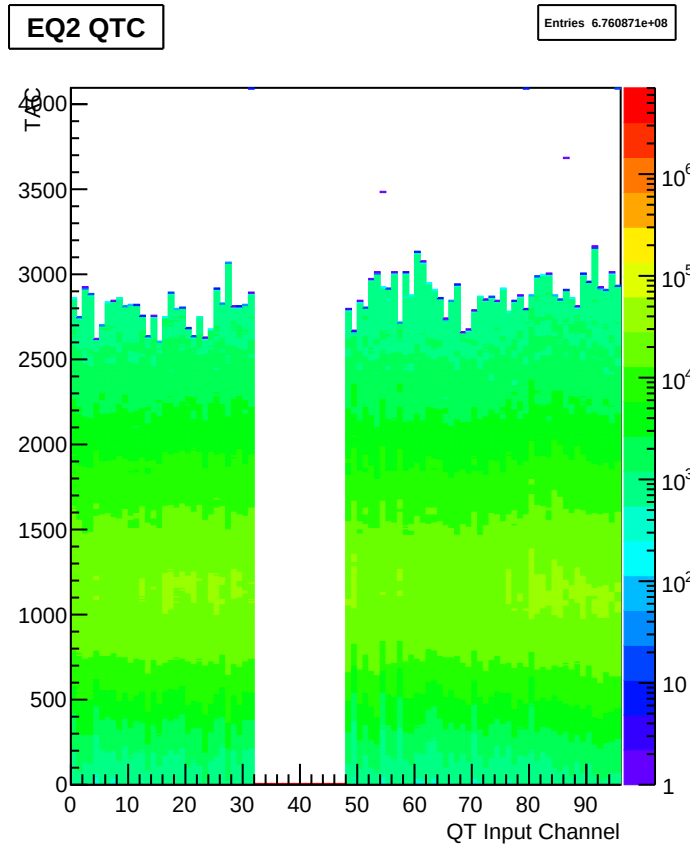

EQ1 QTC
Entries 6.760871e+08
ADC
QT Input Channel

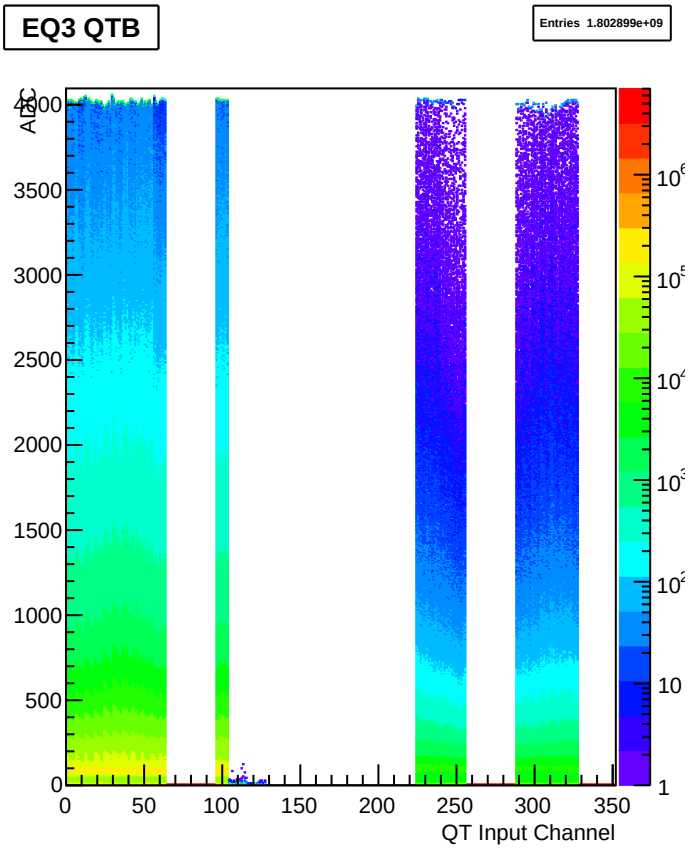

EQ1 QTC
Entries 6.760871e+08
TADC
QT Input Channel

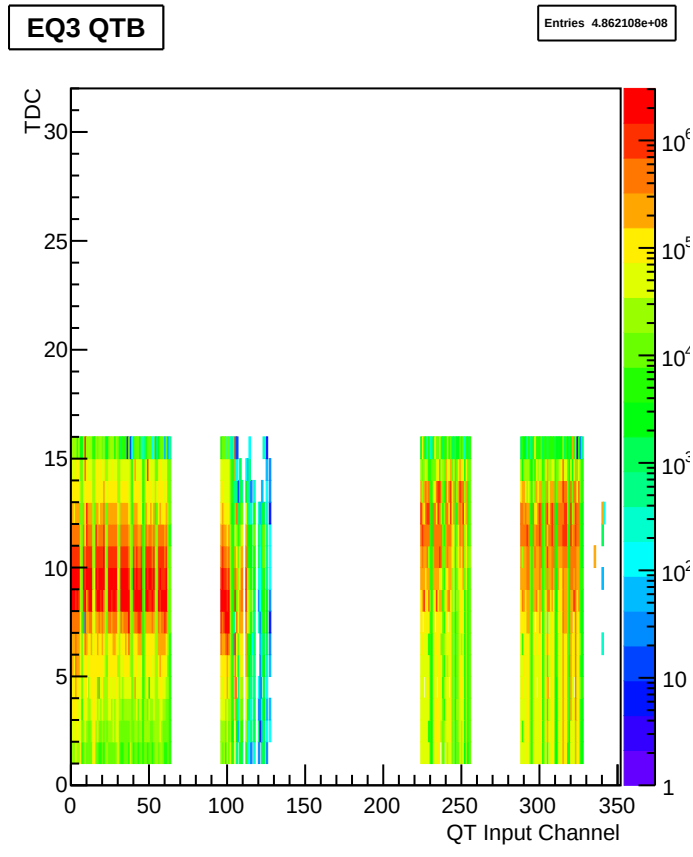

EQ2 QTB
Entries 2.028261e+09
ADC
QT Input Channel


EQ2 QTB
Entries 8.341299e+08
TDC
QT Input Channel


EQ2 QTC
Entries 6.760871e+08
ADC
QT Input Channel


EQ2 QTC
Entries 6.760871e+08
TADC
QT Input Channel


EQ3 QTB
Entries 1.802899e+09
ADC
QT Input Channel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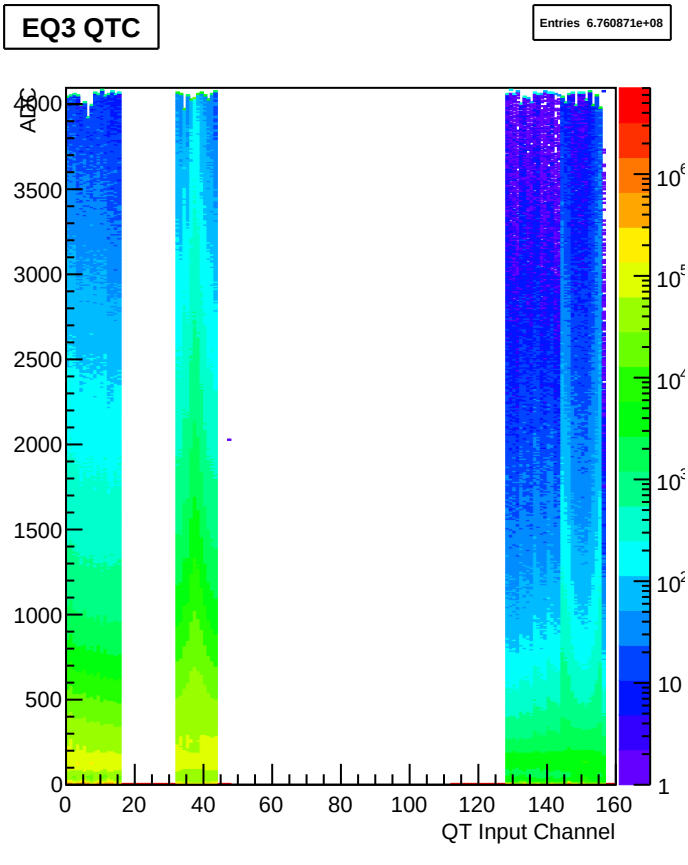
Entries 4.862108e+08
TDC
QT Input Channel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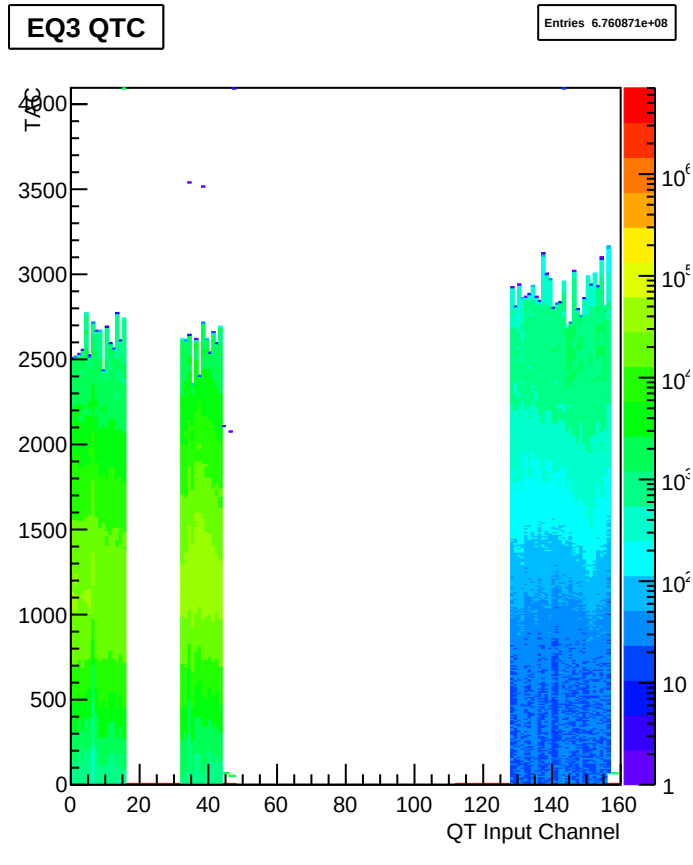
Entries 6.760871e+08
ADC
QT Input Channel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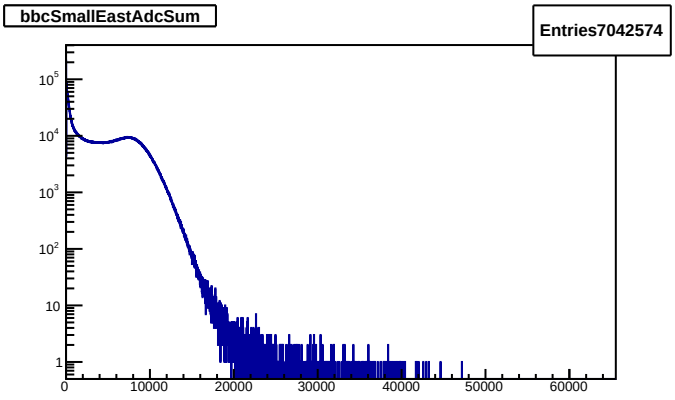
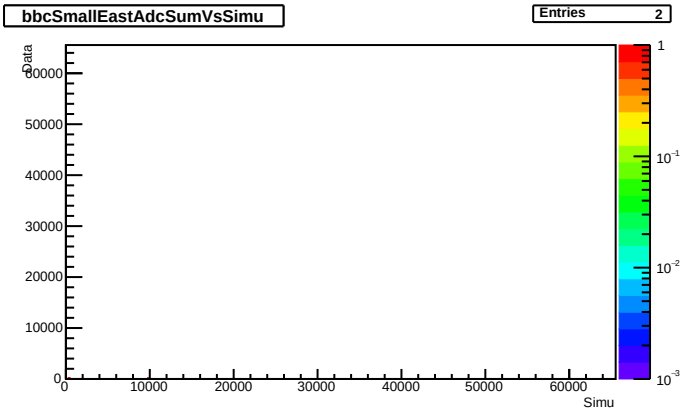
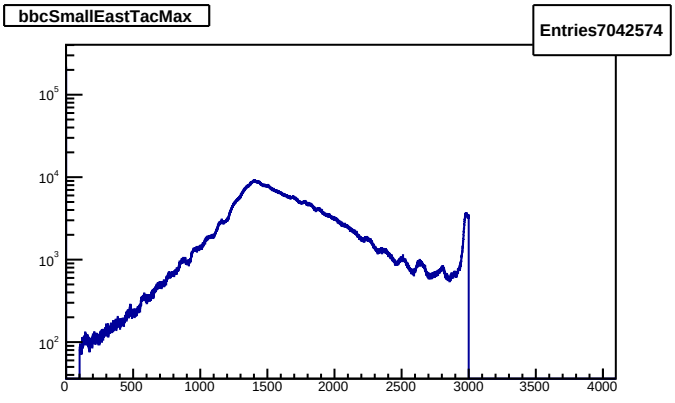
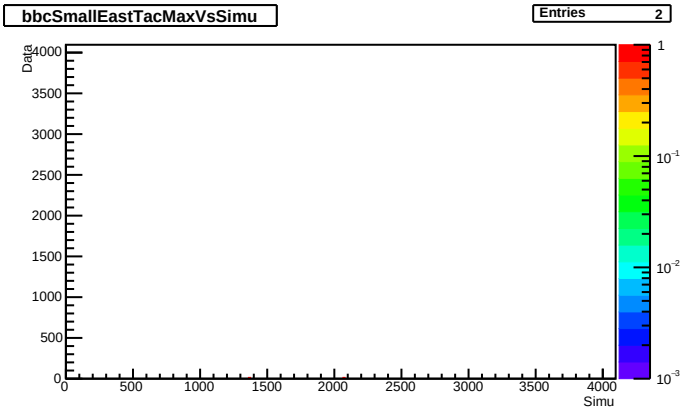
Entries 6.760871e+08
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries7042574


bbcSmallEastAdcSumVsSimu
Entries 2
Data
Simu


bbcSmallEastTacMax
Entries7042574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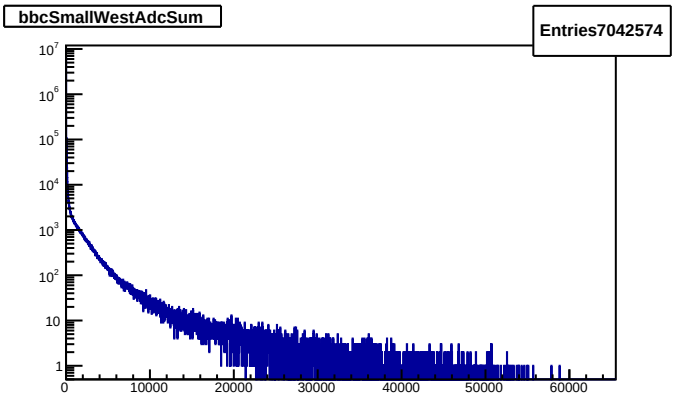
Entries 2
Data
Simu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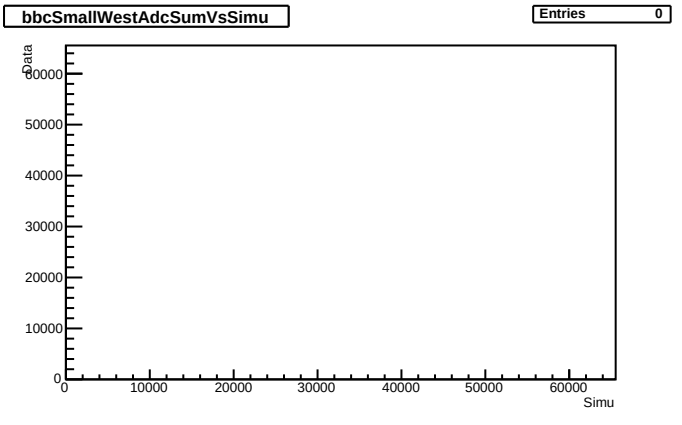
Entries7042574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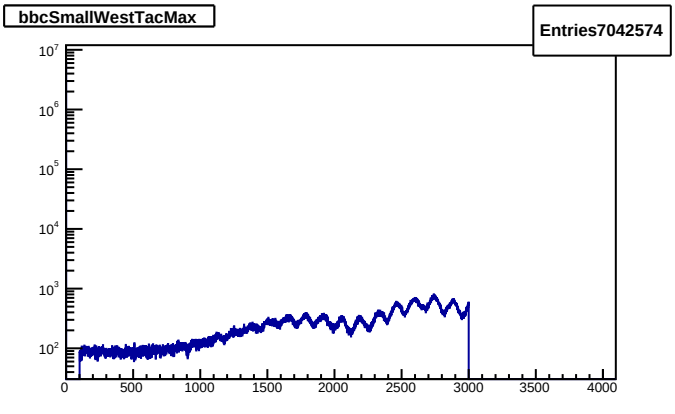
Simu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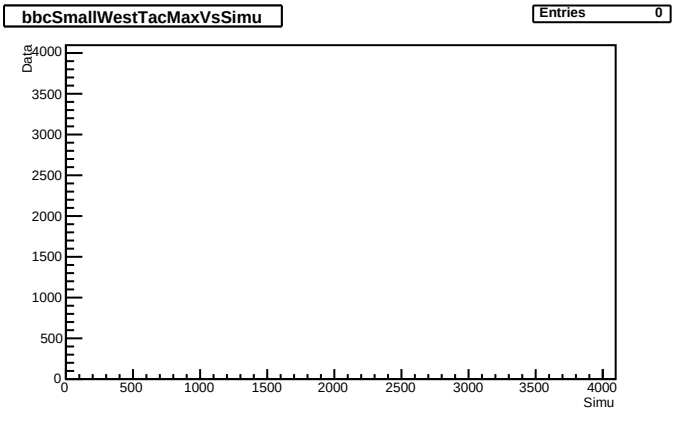
Entries7042574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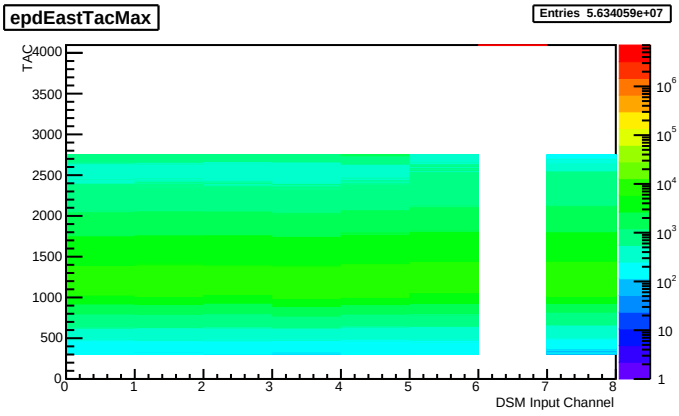
Entries 0
Data
Simu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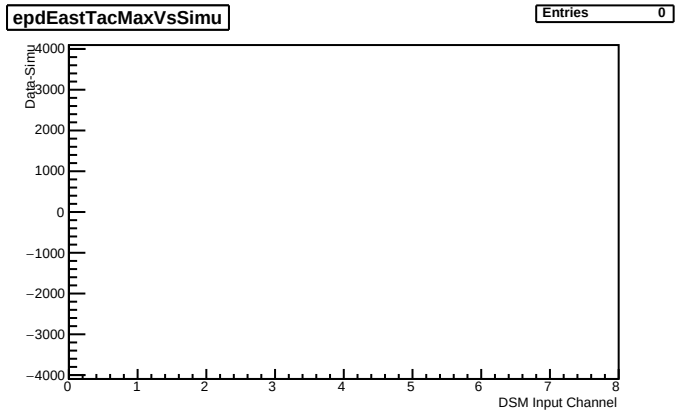
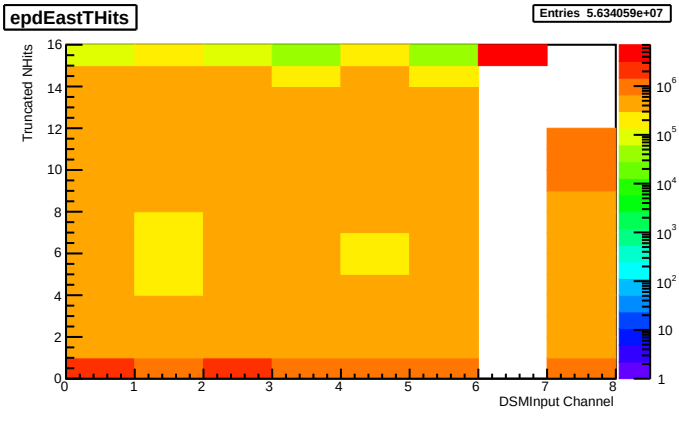
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel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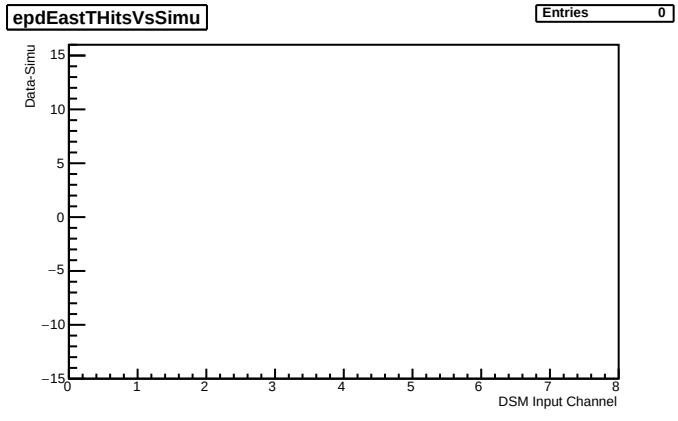
Entries 5.634059e+07
Truncated NHits
DSMInput Channel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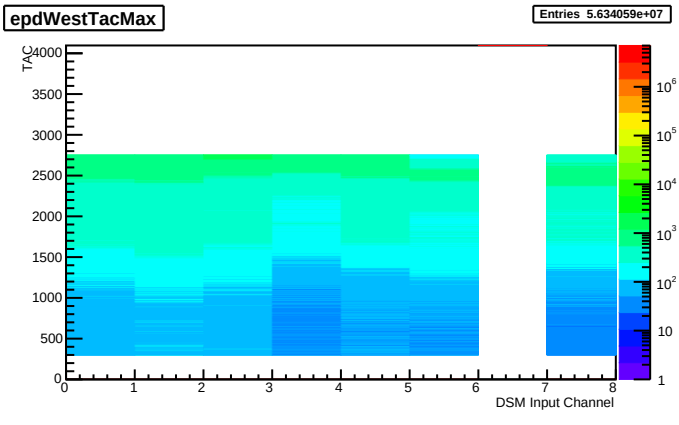
Entries 0
Data-Simu
DSM Input Channel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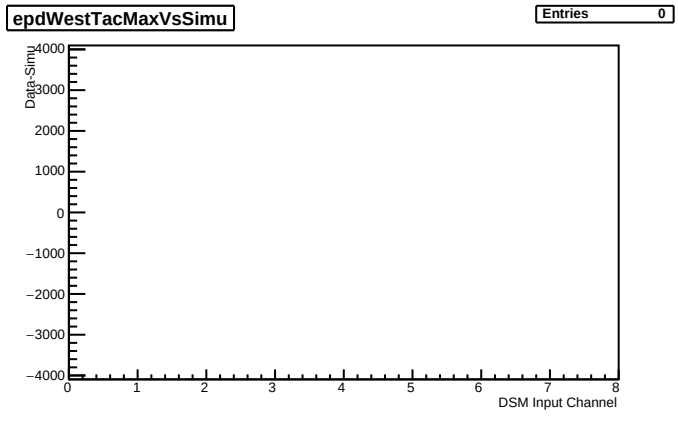
TAC
DSM Input Channel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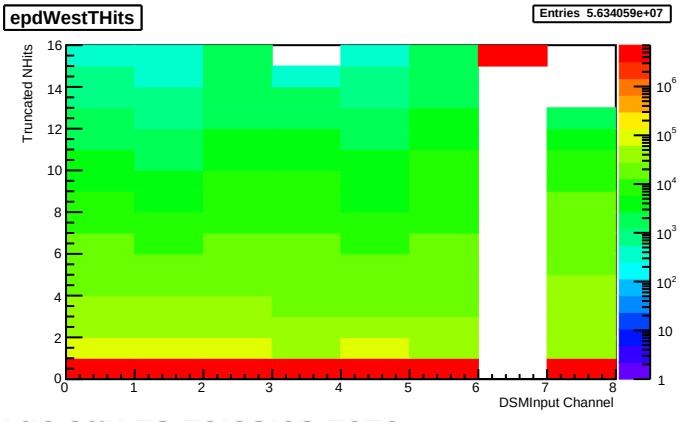
Entries 0
Data-Simu
DSM Input Channel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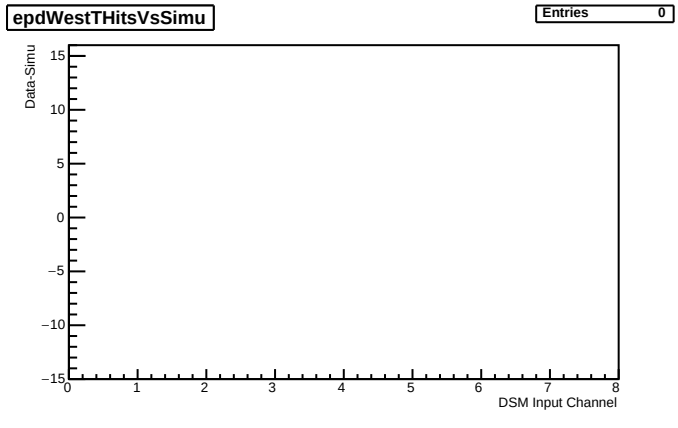
Truncated NHits
DSMInput Channel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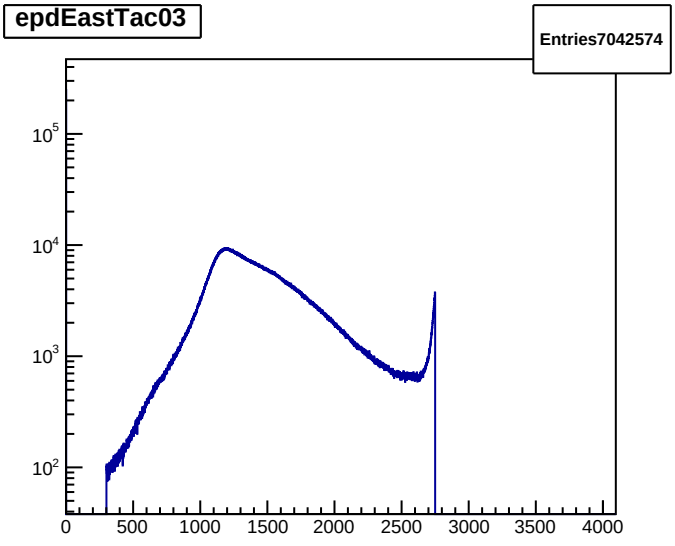
Data-Simu
DSM Input Channel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10^5
10^4
10^3
10^2
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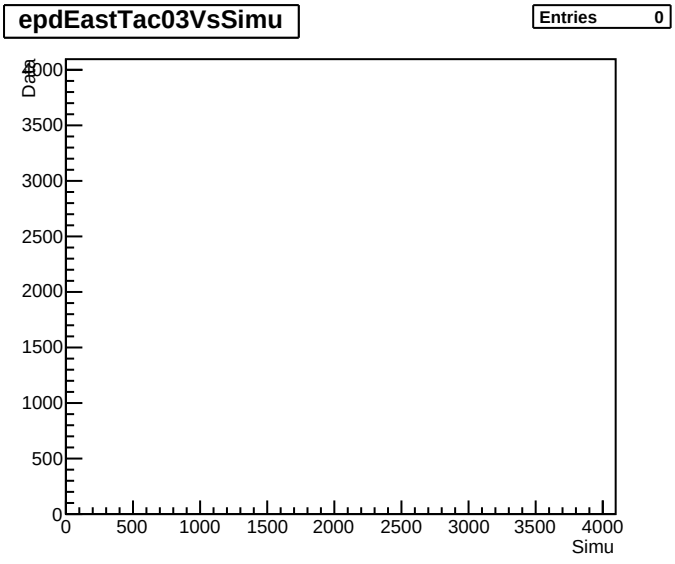
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Entries 0
Data
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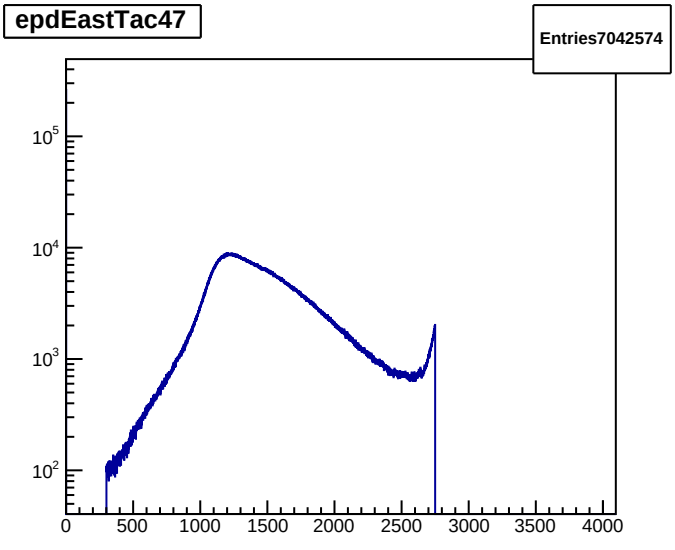
0 500 1000 1500 2000 2500 3000 3500 4000
Simu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10^4
10^3
10^2
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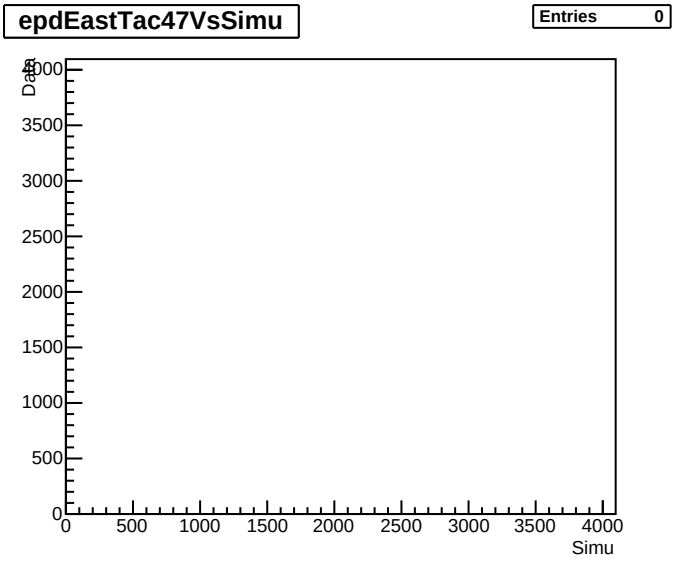
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Entries 0
Data
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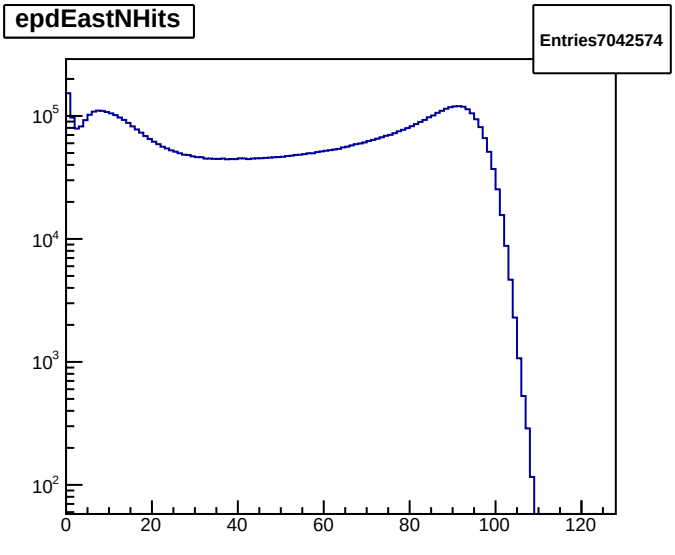
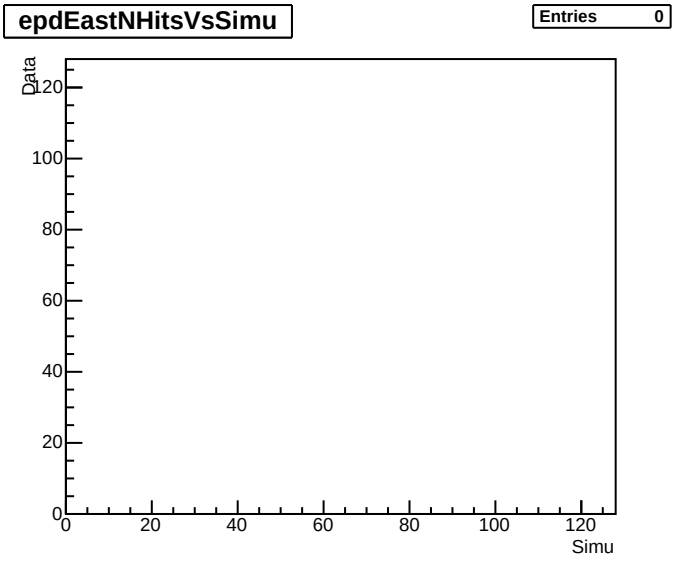
Simu


epdEastNHits
Entries7042574
10^5
10^4
10^3
10^2
0 20 40 60 80 100 120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Entries 0
Data
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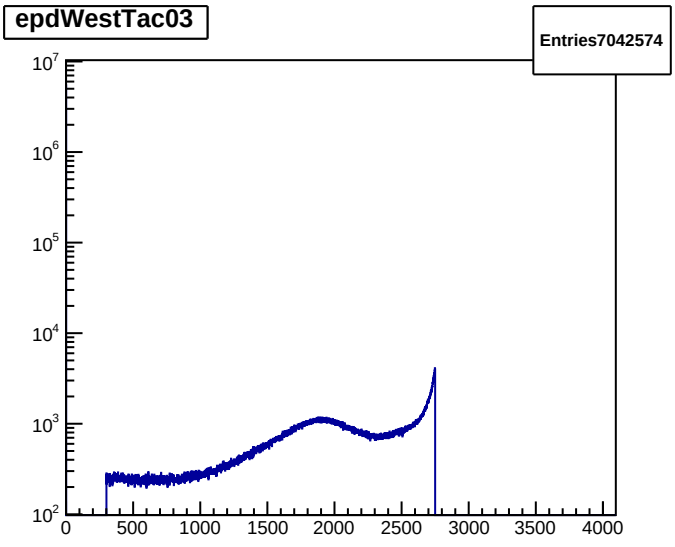
0 20 40 60 80 100 120
Simu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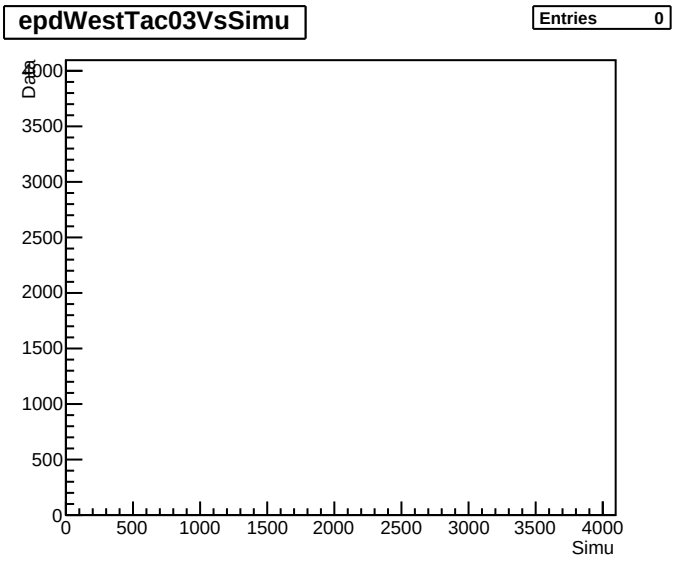
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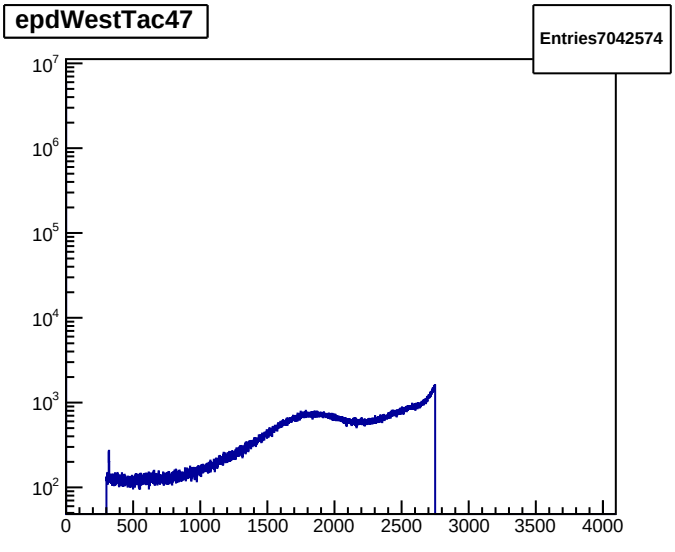
Data
Simu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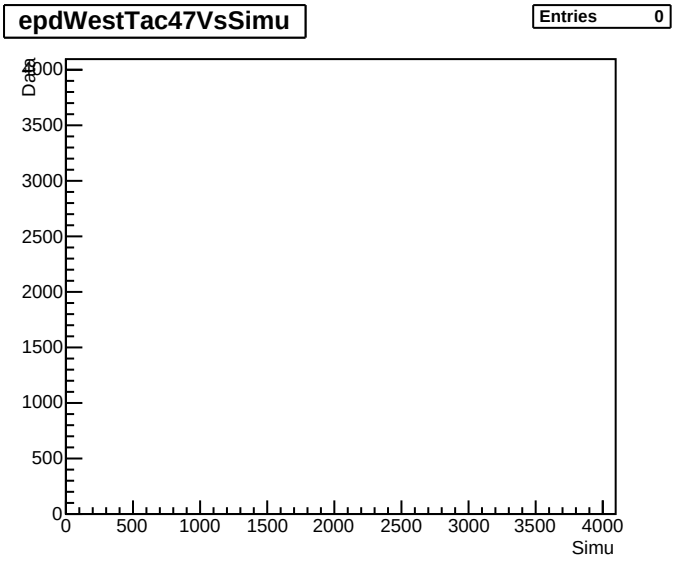
Entries7042574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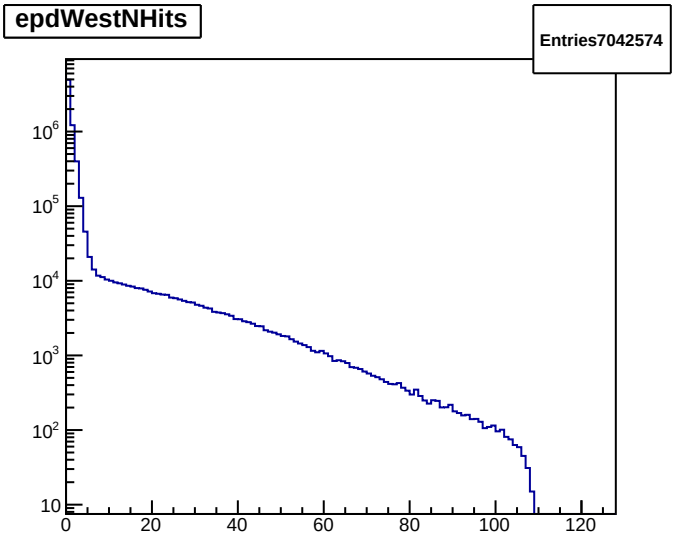
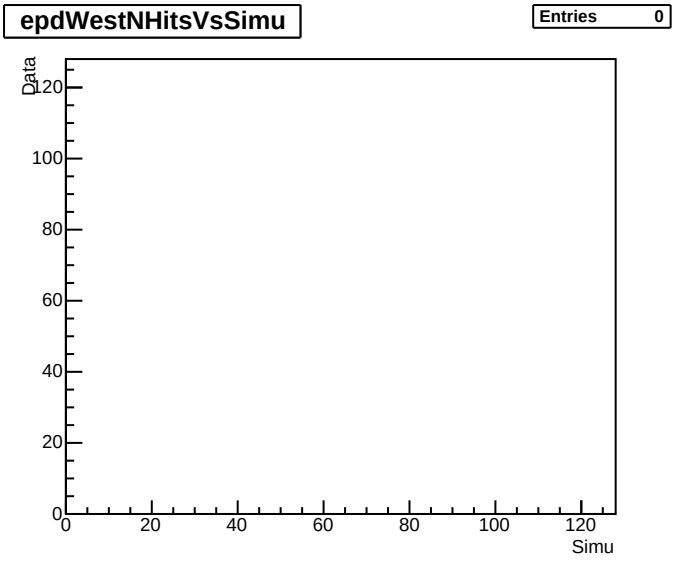
Entries 0
Data
Simu


epdWestNHits
Entries7042574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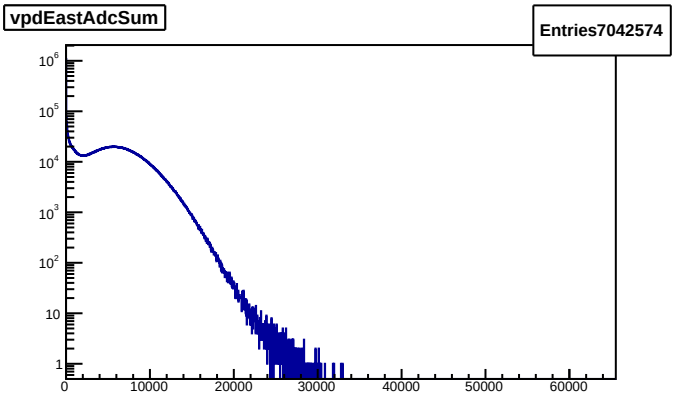
Entries 0
Data
Simu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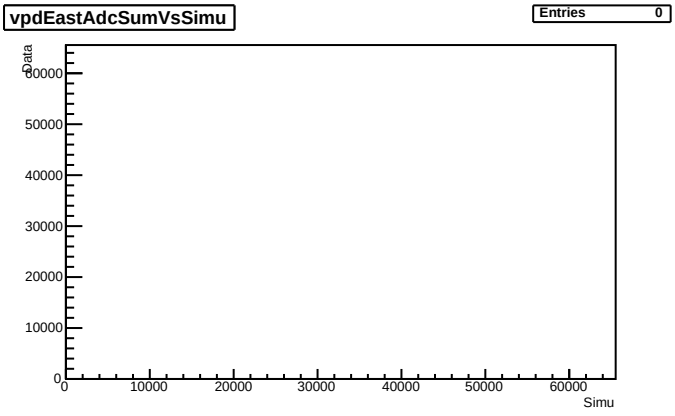
Entries7042574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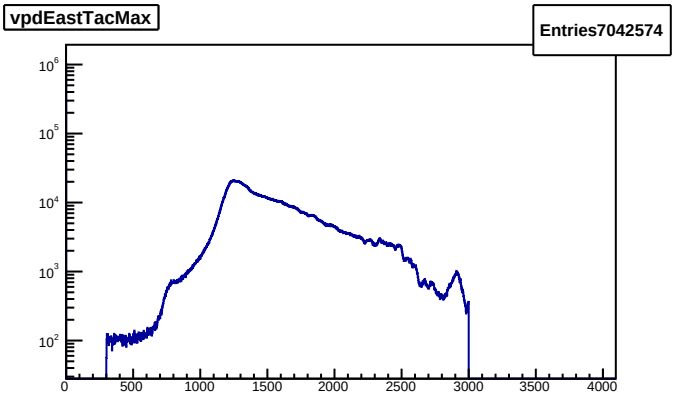
Entries 0
Data
Simu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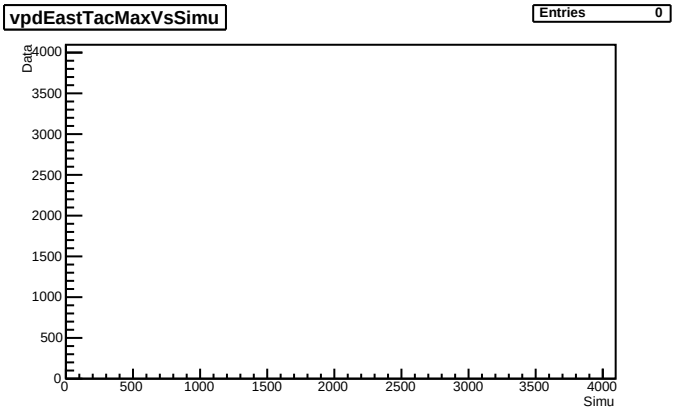
Entries7042574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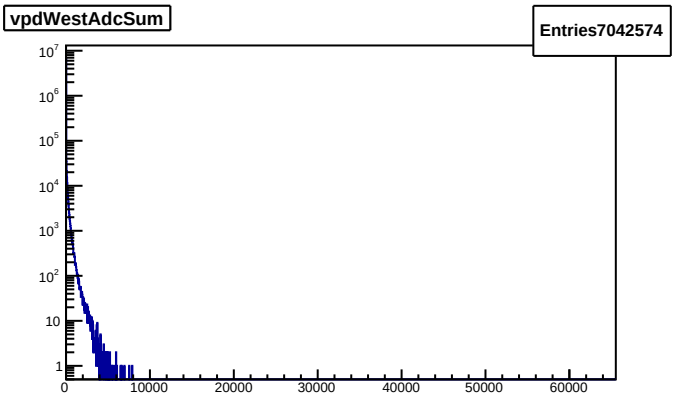
Entries 0
Data
Simu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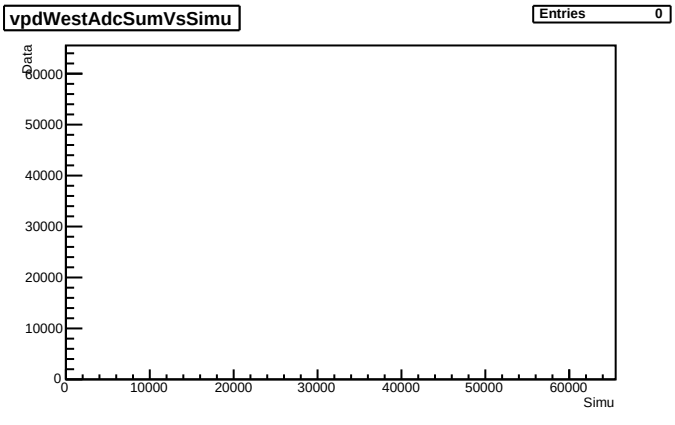
Entries7042574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Entries 0
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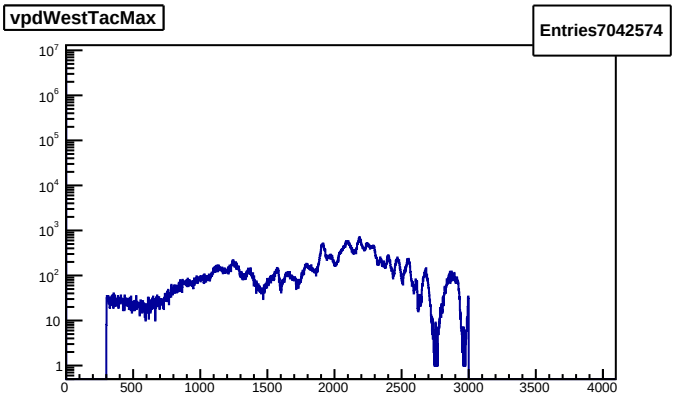
vpdWestTacMax
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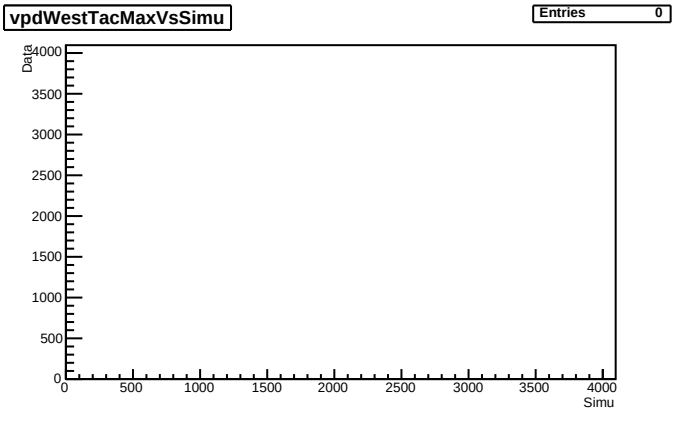
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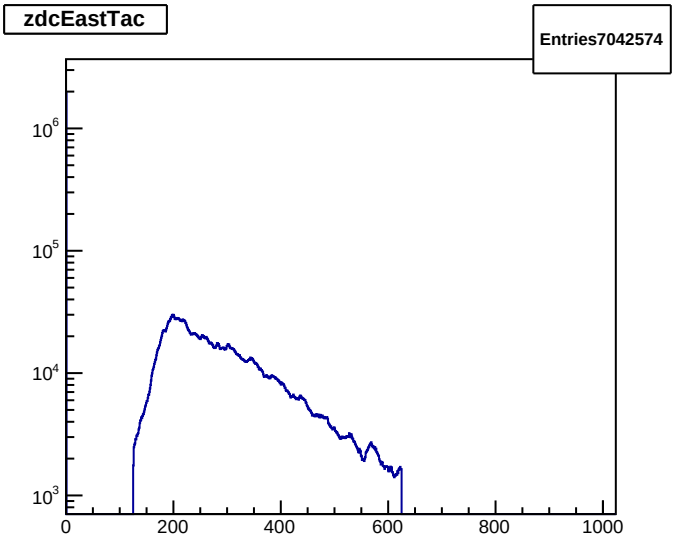
Entries 0
Data
Simu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Entries7042574
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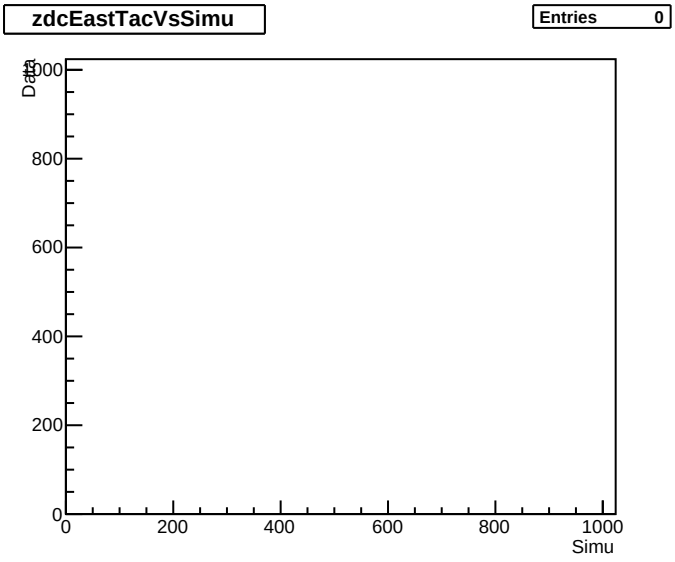
10^5
10^4
10^3
0
200
400
600
800
1000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Entries 0
Data
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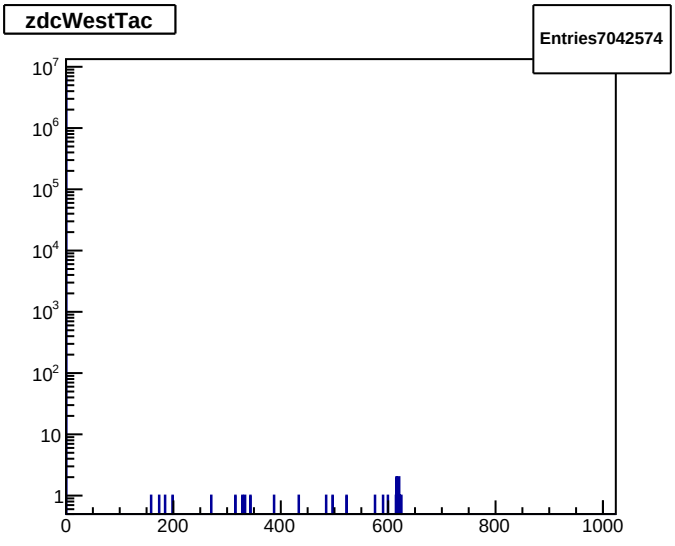
800
600
400
200
0
0
200
400
600
800
1000
Simu


zdcWestTac
Entries7042574
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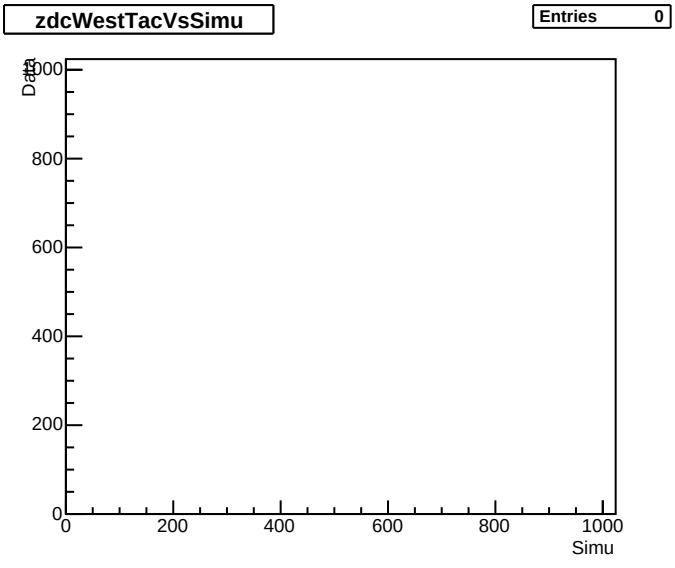
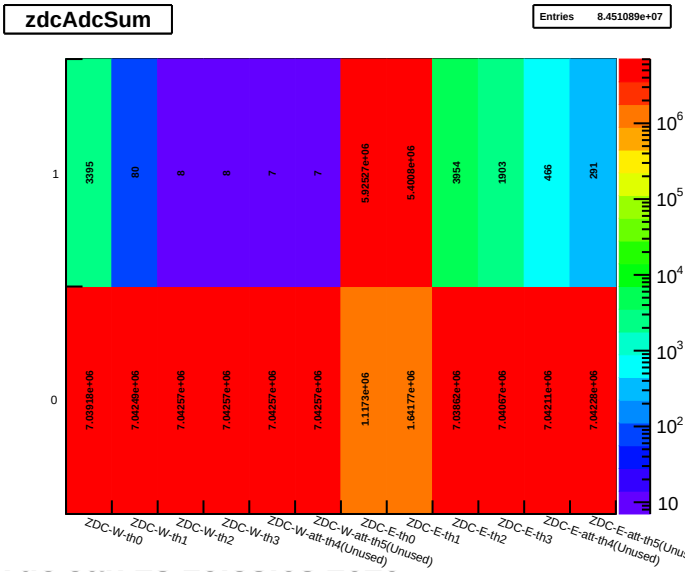
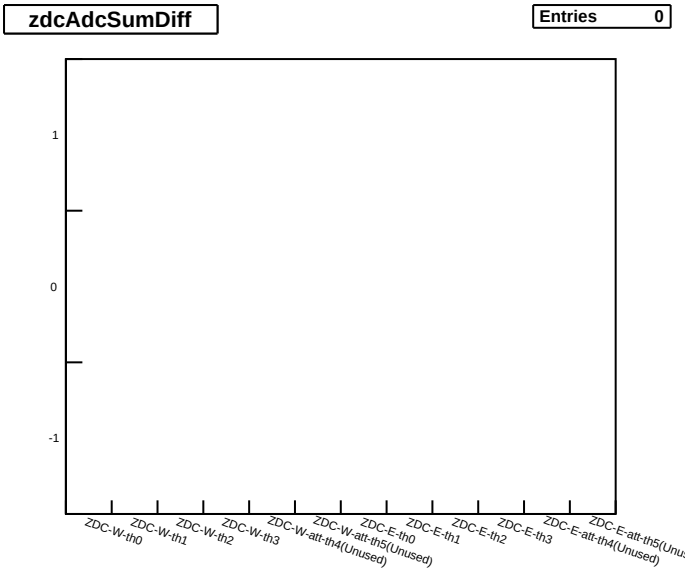
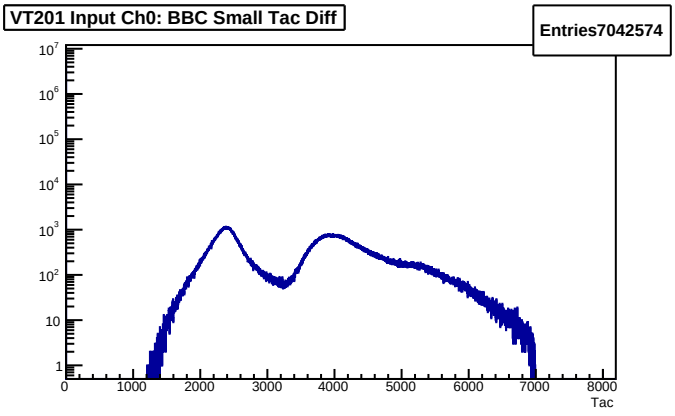
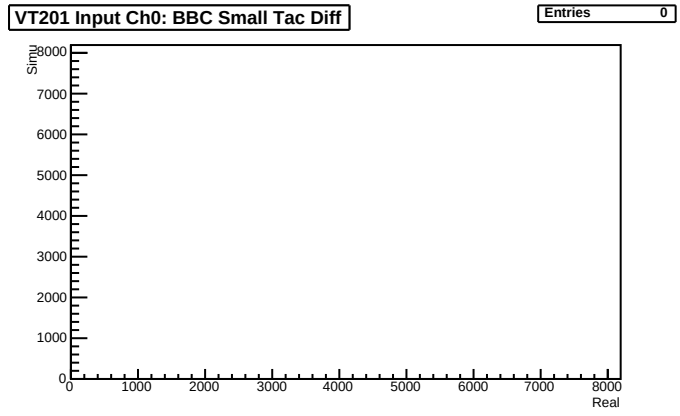
10^6
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000

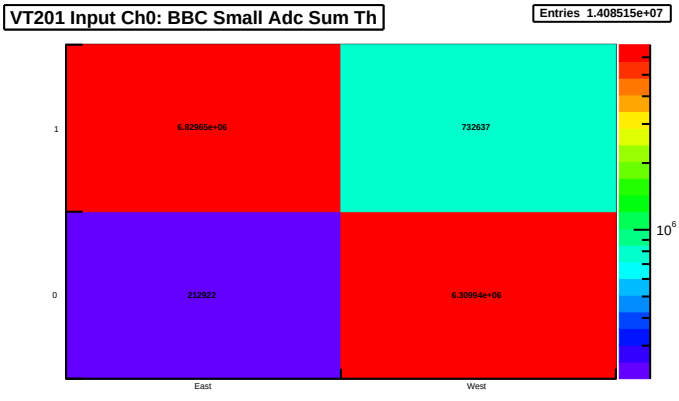

zdcWestTacVsSimu
Entries 0
Data
1000
800
600
400
200
0
0
200
400
600
800
1000
Simu

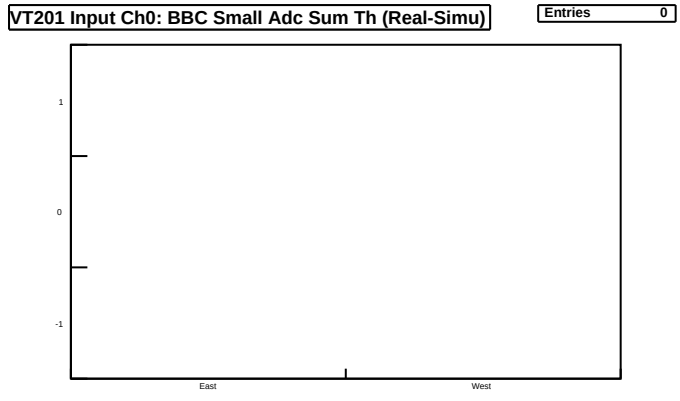

zdcAdcSum
Entries 8.451089e+07
1
0
3395
80
8
8
7
7
5.92527e+06
5.4008e+06
3954
1903
466
291
7.03918e+06
7.04249e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
1.1173e+06
1.64177e+06
7.03862e+06
7.04067e+06
7.04211e+06
7.04228e+06
10^6
10^5
10^4
10^3
10^2
10
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
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

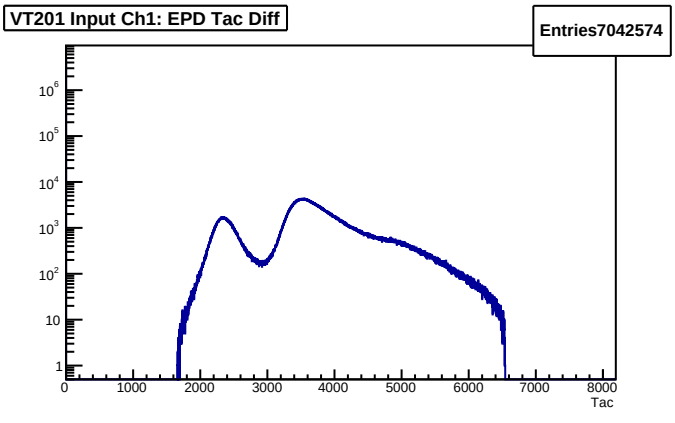

zdcAdcSumDiff
Entries 0
1
0
-1
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

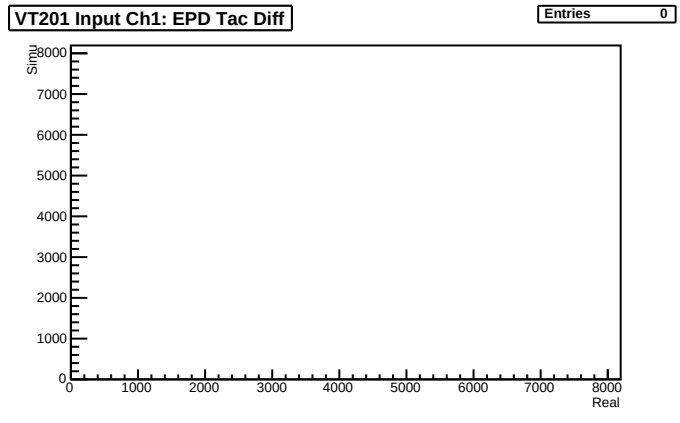

VT201 Input Ch0: BBC Small Tac Diff
Entries7042574
Tac

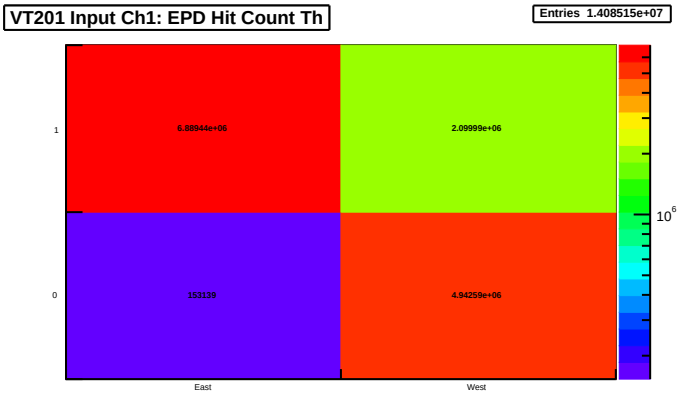

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

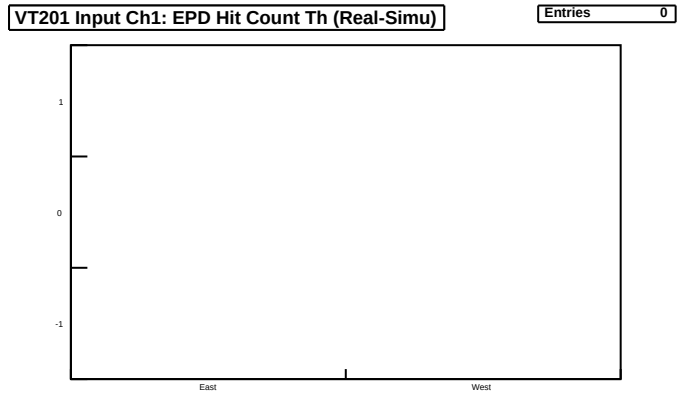

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1.408515e+07
6.82965e+06
732637
212922
6.30994e+06
East
West

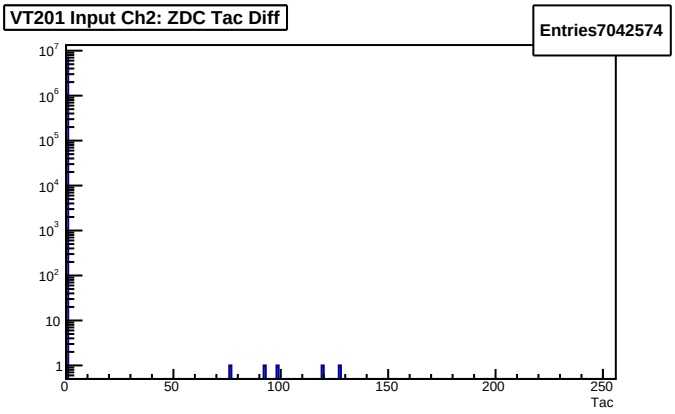

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

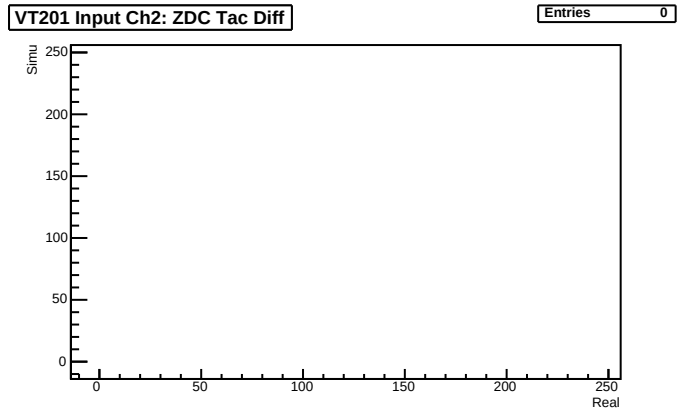

VT201 Input Ch1: EPD Tac Diff
Entries7042574
Tac

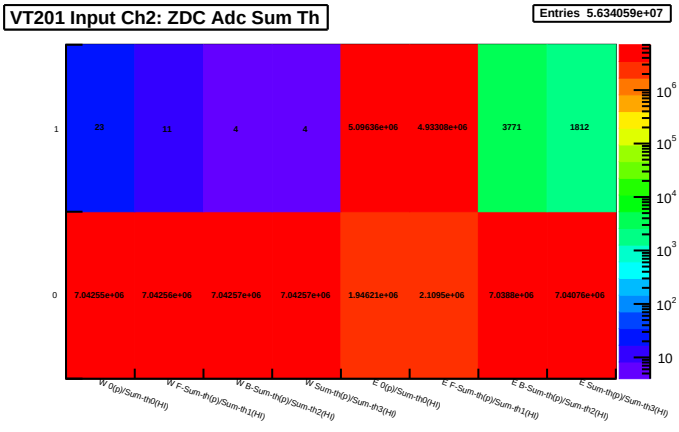

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

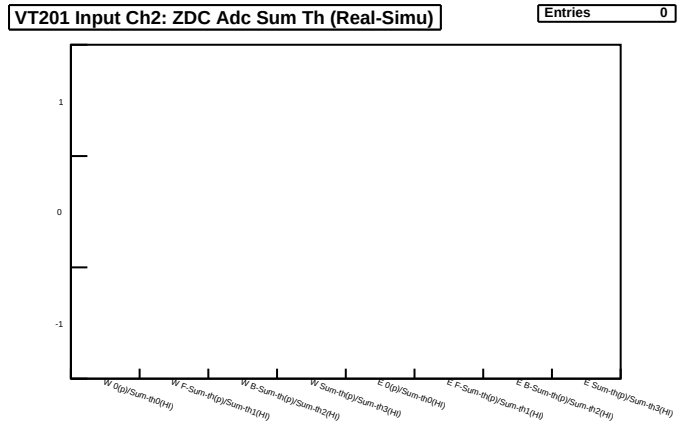

VT201 Input Ch1: EPD Hit Count Th
Entries 1.408515e+07
6.88944e+06
2.09999e+06
153139
4.94259e+06
East
West

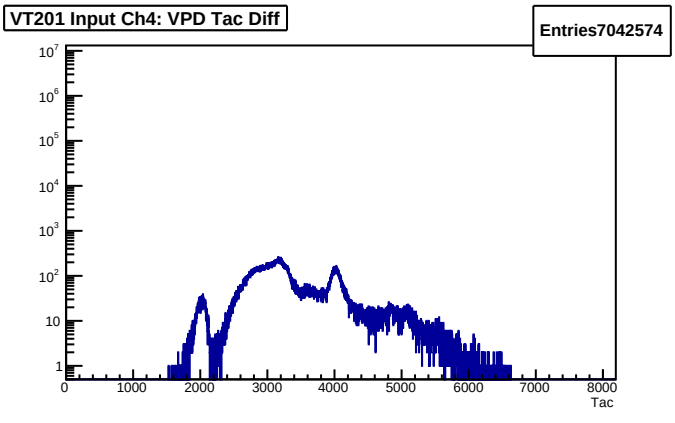

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

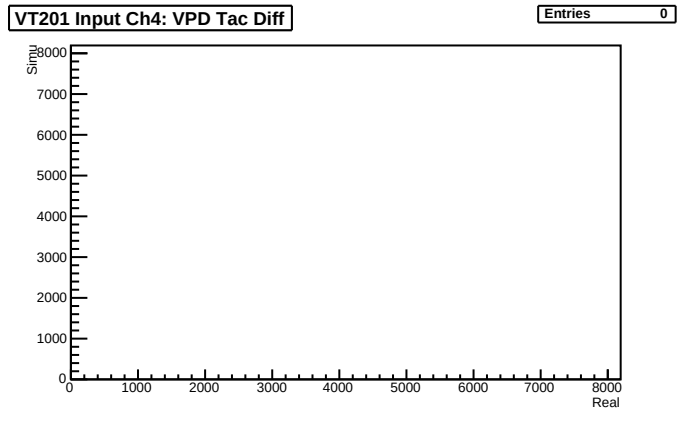

VT201 Input Ch2: ZDC Tac Diff
Entries7042574
Tac

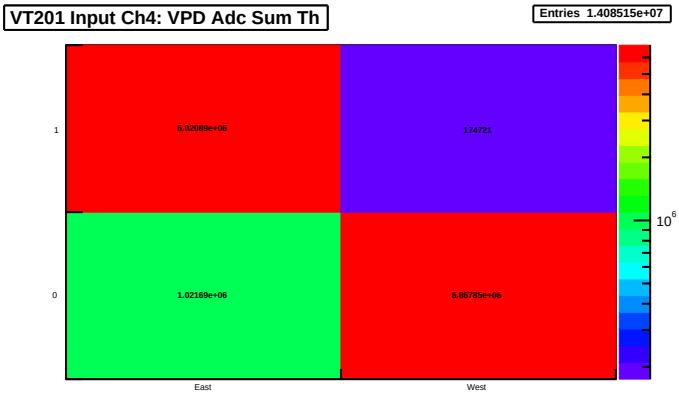

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

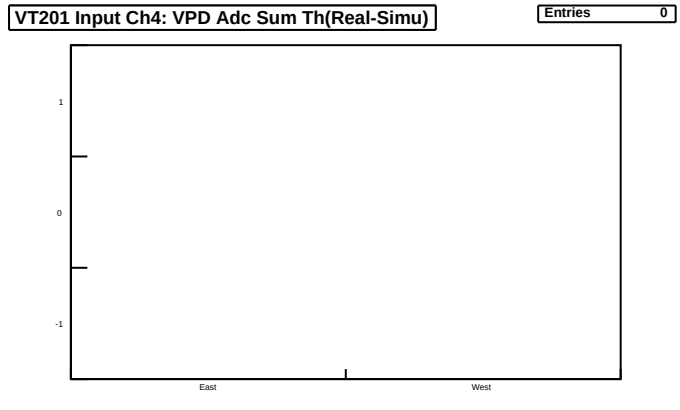

VT201 Input Ch2: ZDC Adc Sum Th
Entries 5.634059e+07
23
11
4
4
5.09636e+06
4.93308e+06
3771
1812
7.04255e+06
7.04256e+06
7.04257e+06
7.04257e+06
1.94621e+06
2.1095e+06
7.0388e+06
7.04076e+06
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

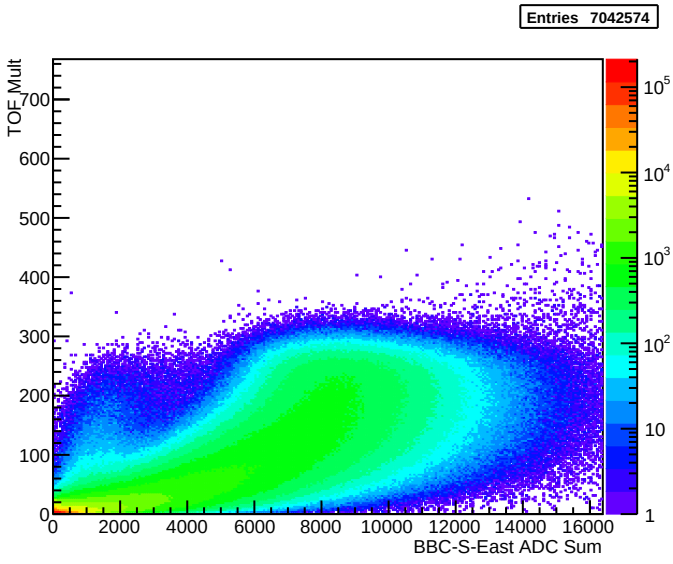

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

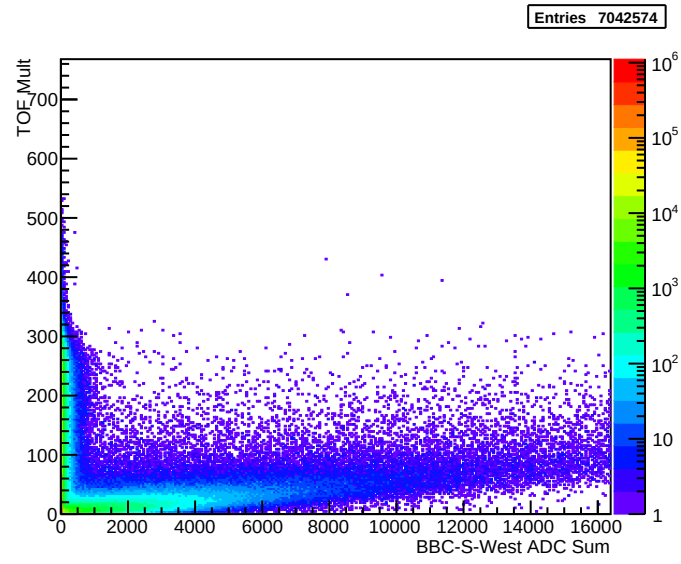

VT201 Input Ch4: VPD Tac Diff
Entries7042574
Tac

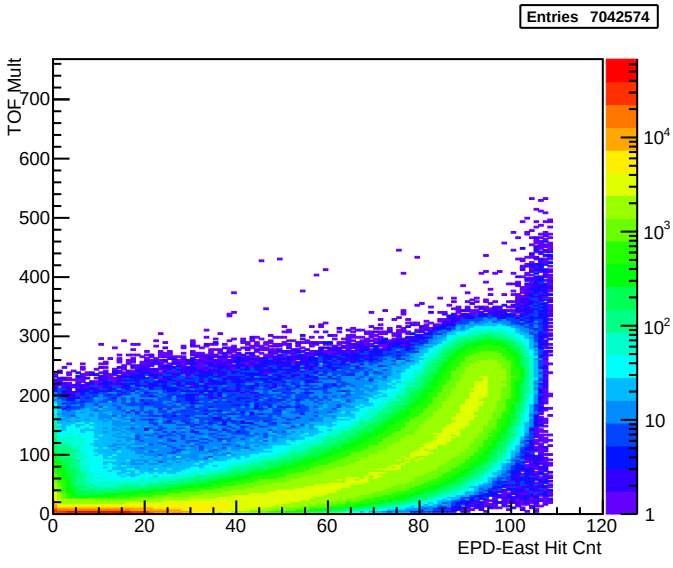

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

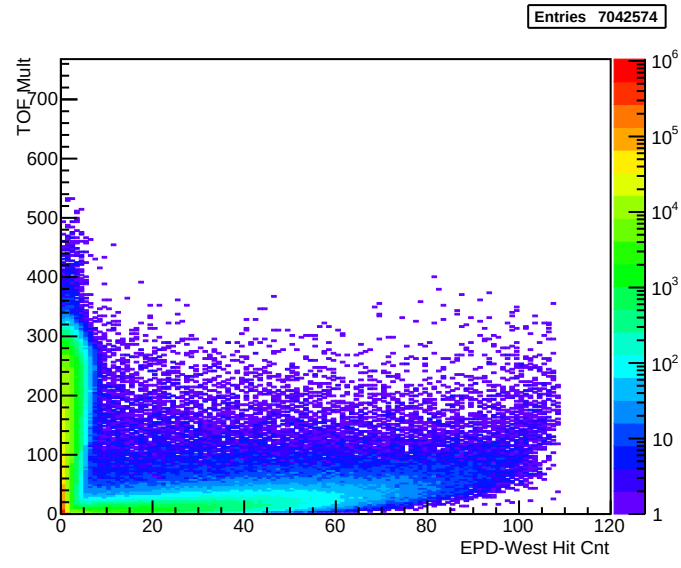

VT201 Input Ch4: VPD Adc Sum Th
Entries 1.408515e+07
6.02069e+06
174721
1.02169e+06
6.86785e+06
East
West

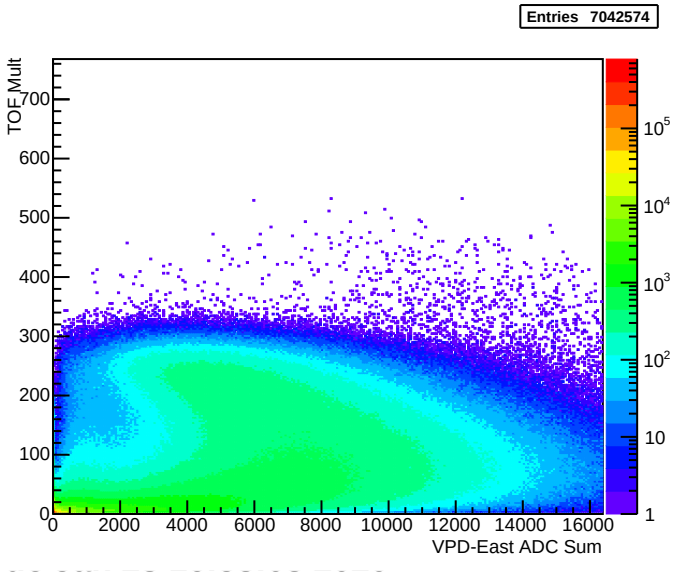

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

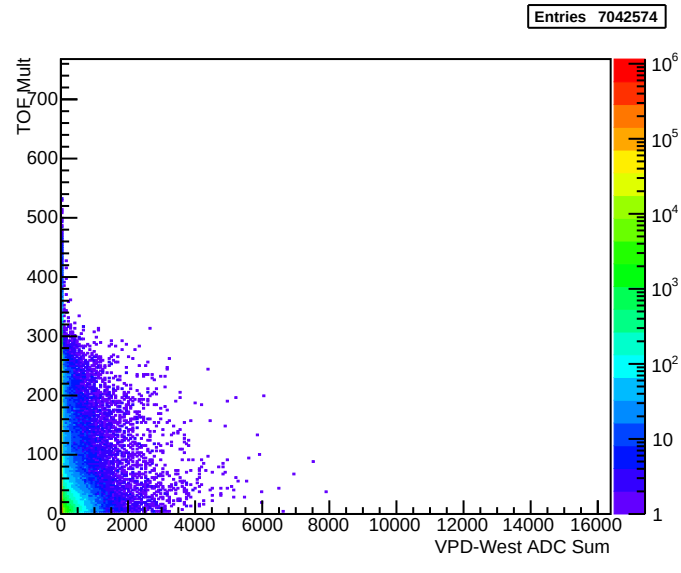

Entries 7042574
TOF_Mult
BBC-S-East ADC Sum

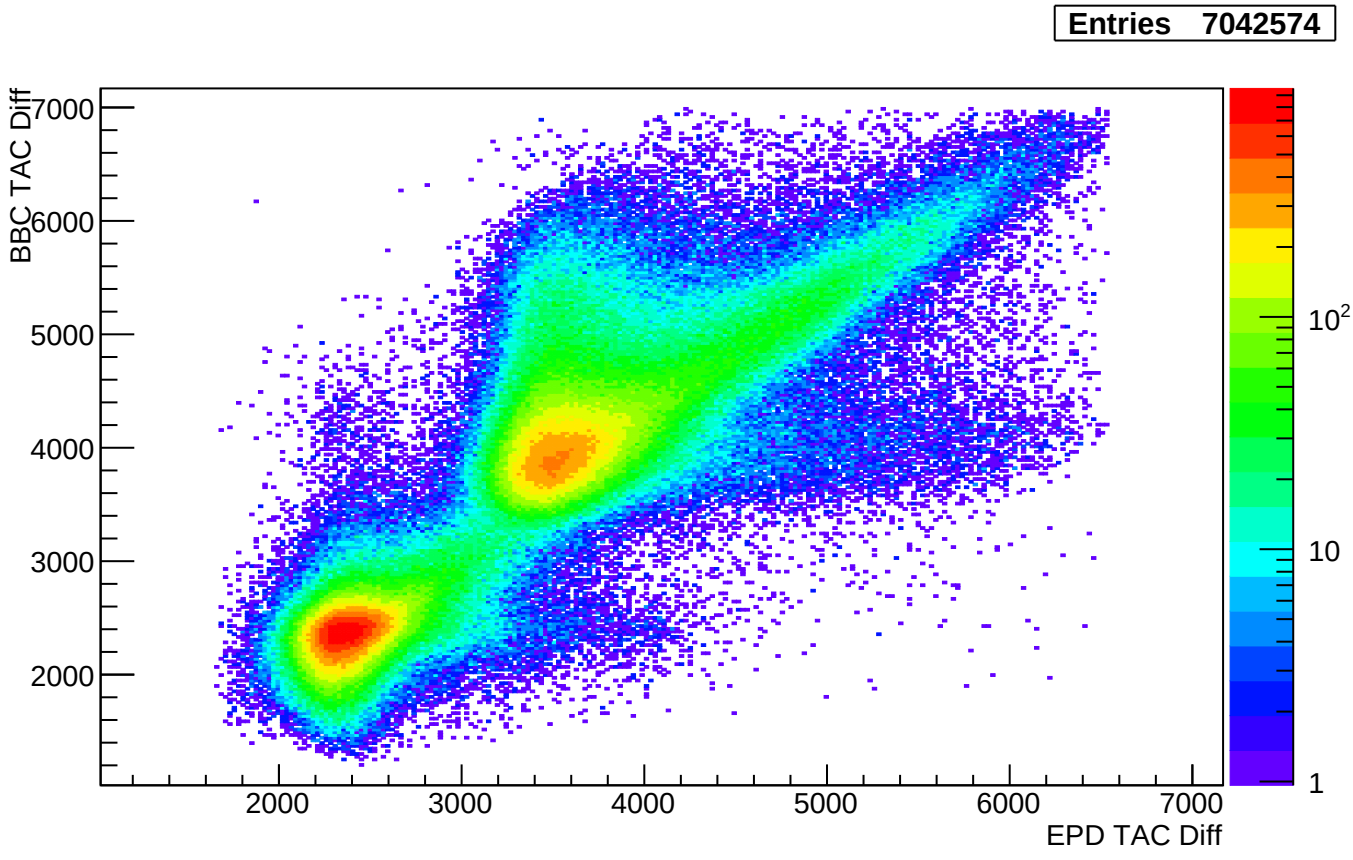

Entries 7042574
TOF_Mult
BBC-S-West ADC Sum

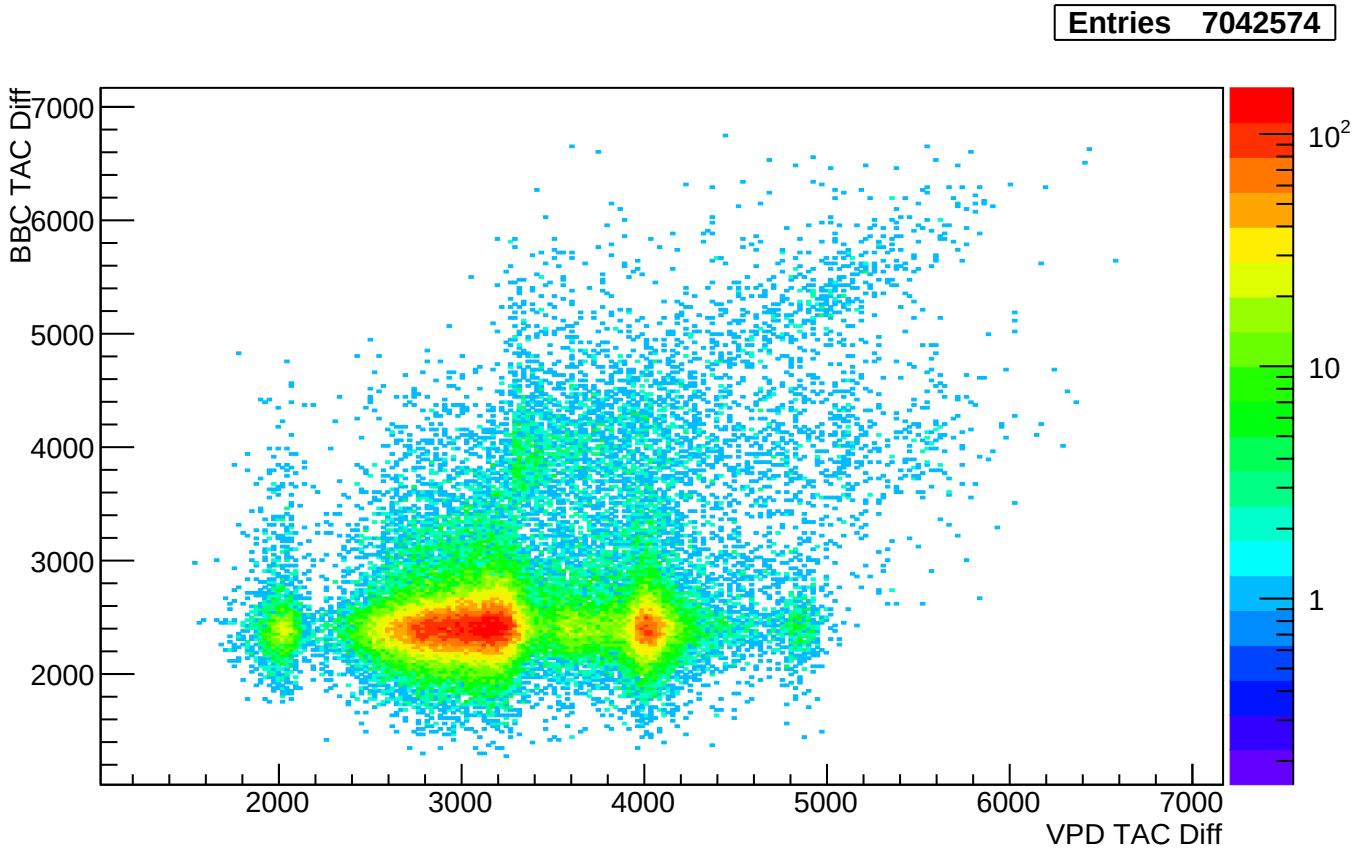

Entries 7042574
TOF_Mult
EPD-East Hit Cnt

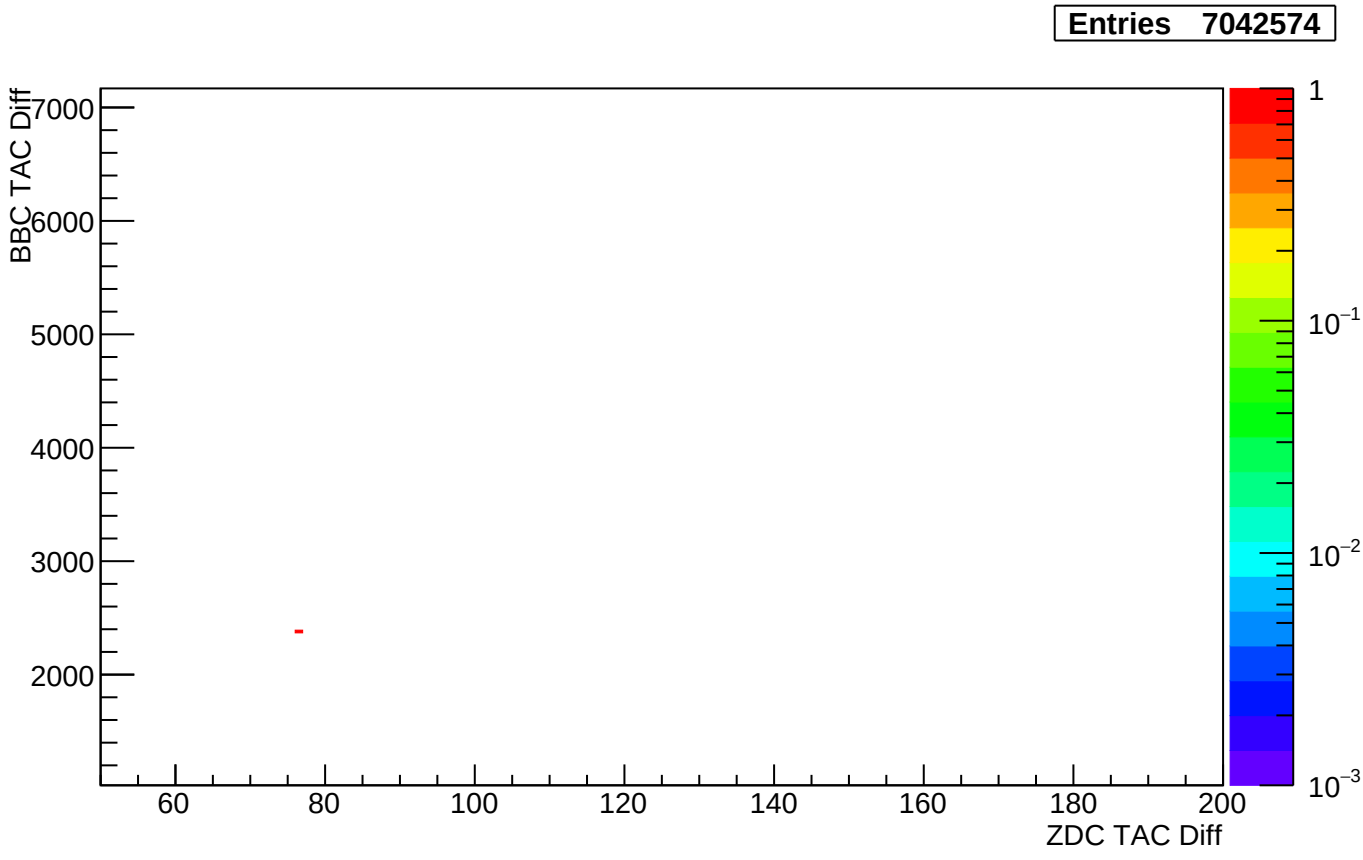

Entries 7042574
TOF_Mult
EPD-West Hit Cnt

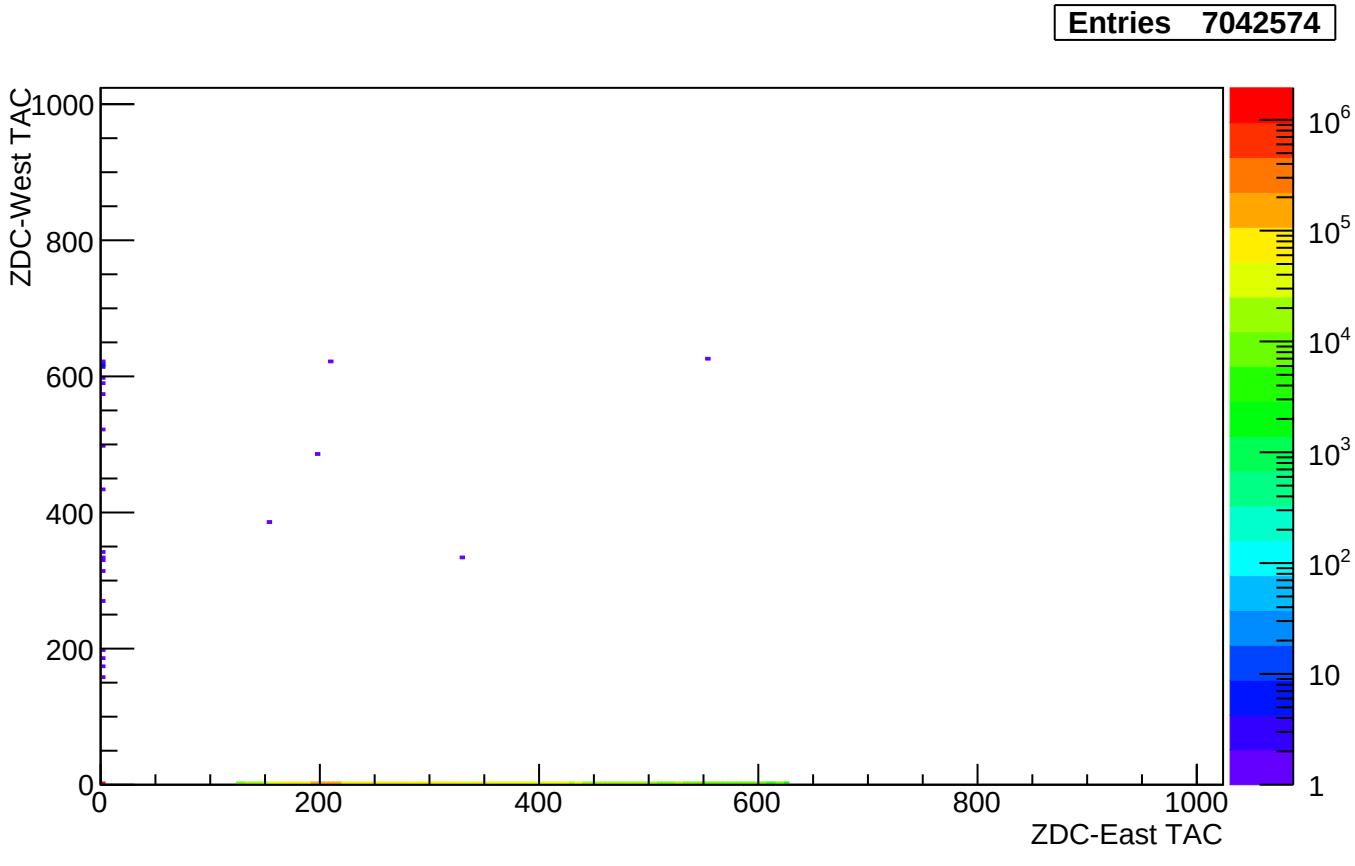

Entries 7042574
TOF_Mult
VPD-East ADC Sum

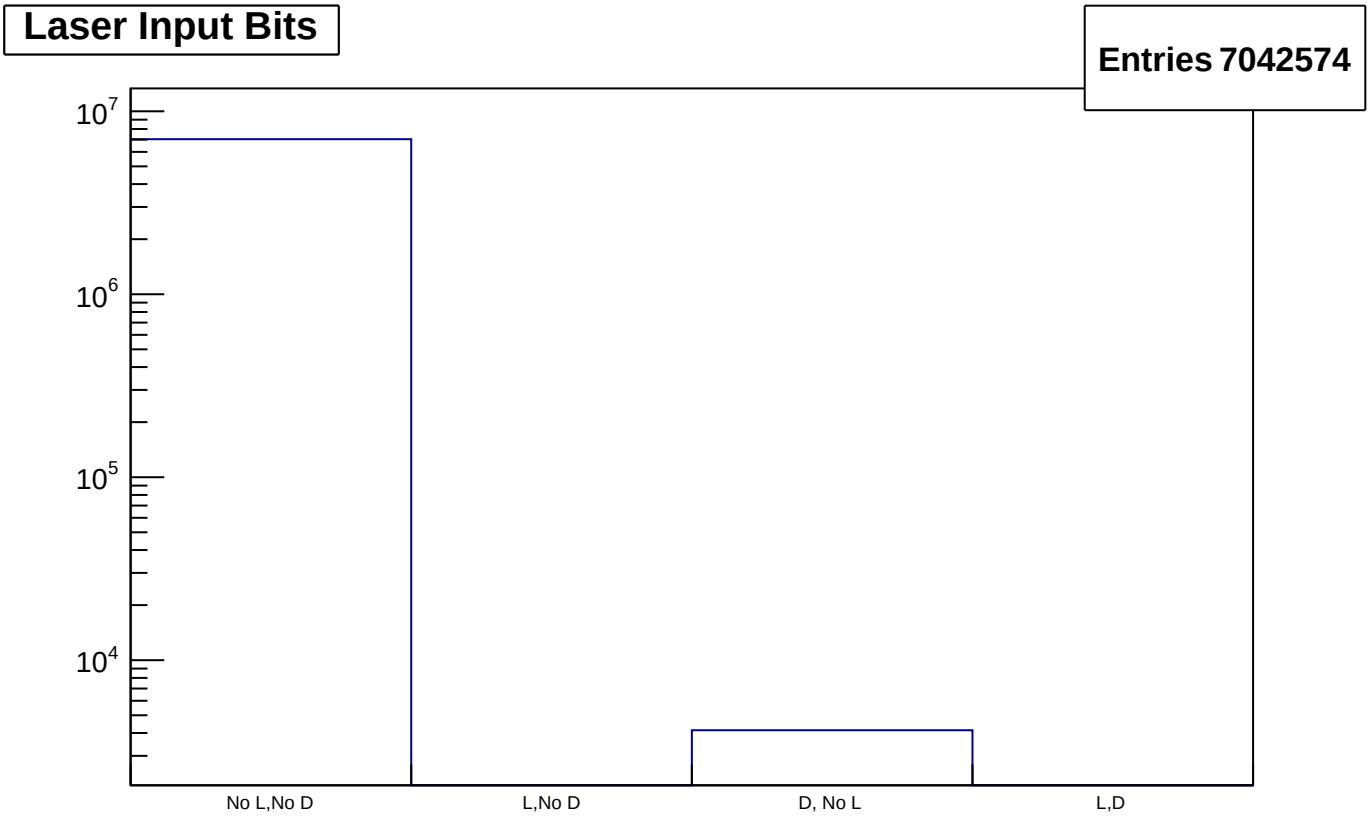

Entries 7042574
TOF_Mult
VPD-West ADC Sum

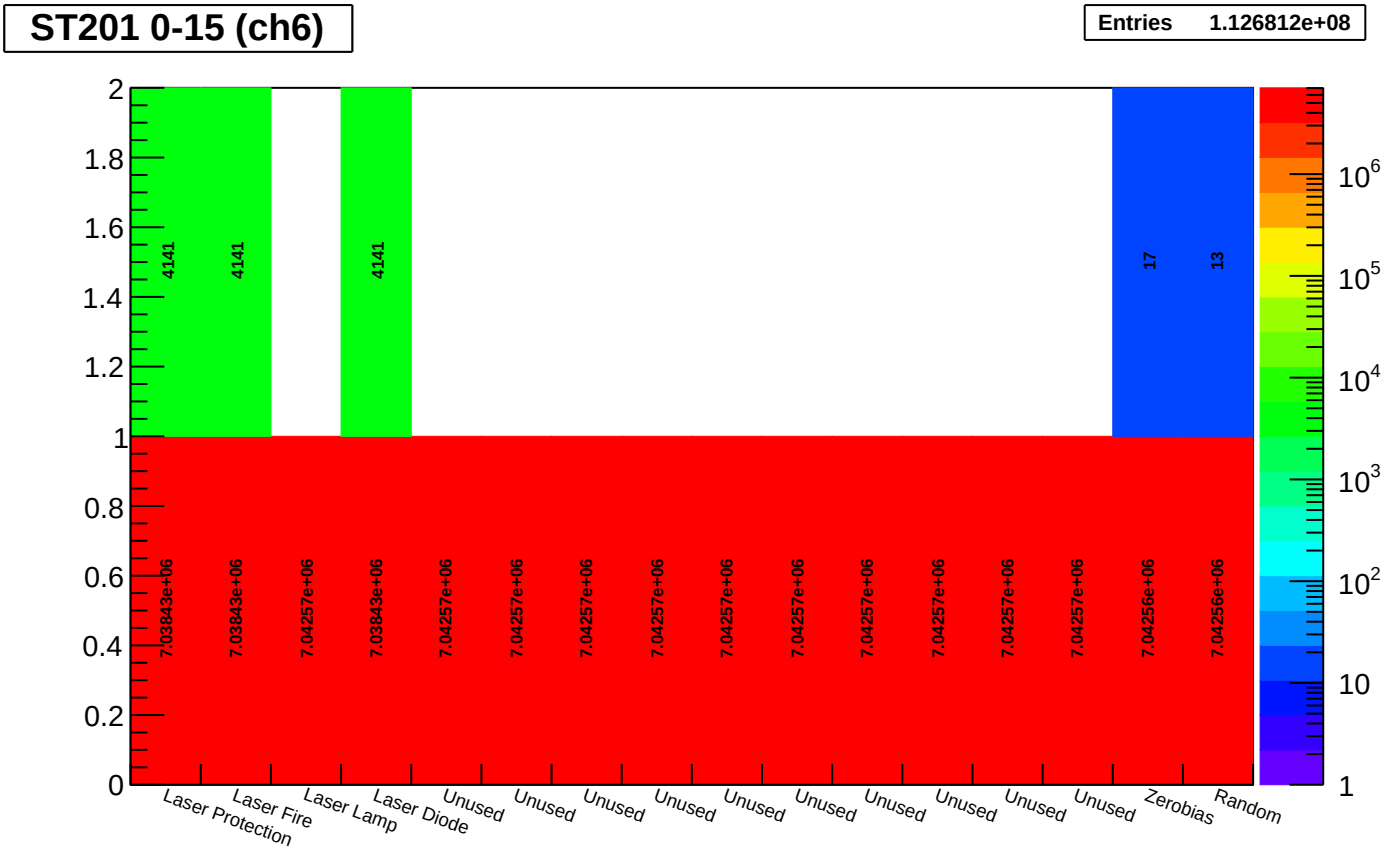

Entries 7042574
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10^2
10
1


Entries 7042574
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
10^2
10
1

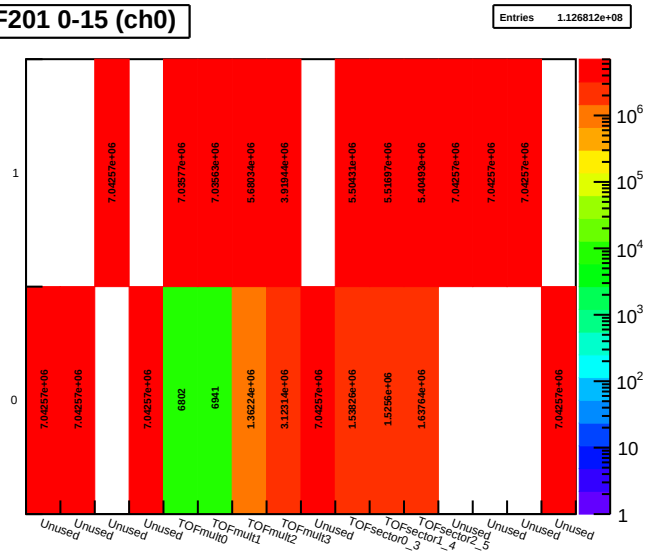

Entries 7042574
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff
1
10^{-1}
10^{-2}
10^{-3}


Entries 7042574
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

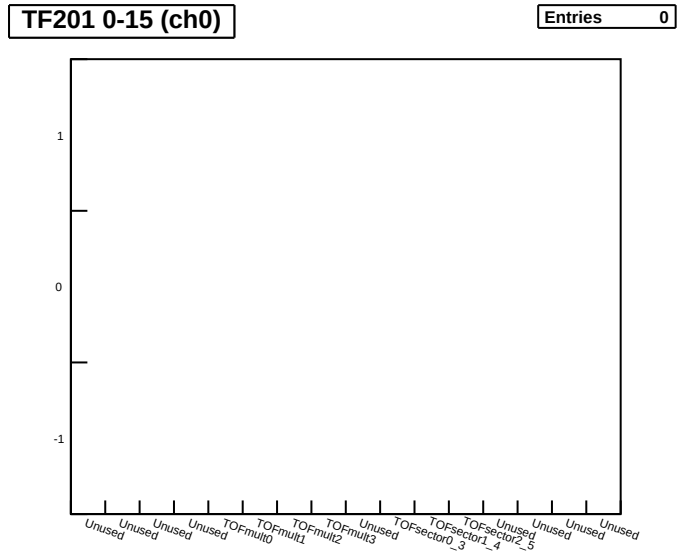

Laser Input Bits
Entries 7042574
10^7
10^6
10^5
10^4
No L,No D
L,No D
D, No L
L,D


ST201 0-15 (ch6)
Entries 1.126812e+08
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4141
4141
4141
17
13
7.03843e+06
7.03843e+06
7.04257e+06
7.03843e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04257e+06
7.04256e+06
7.04256e+06
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^6
10^5
10^4
10^3
10^2
10
1

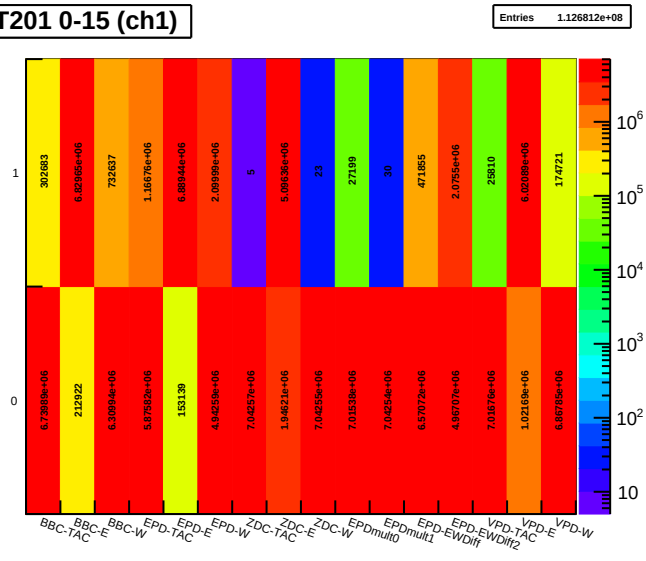
TF201 0-15 (ch0)



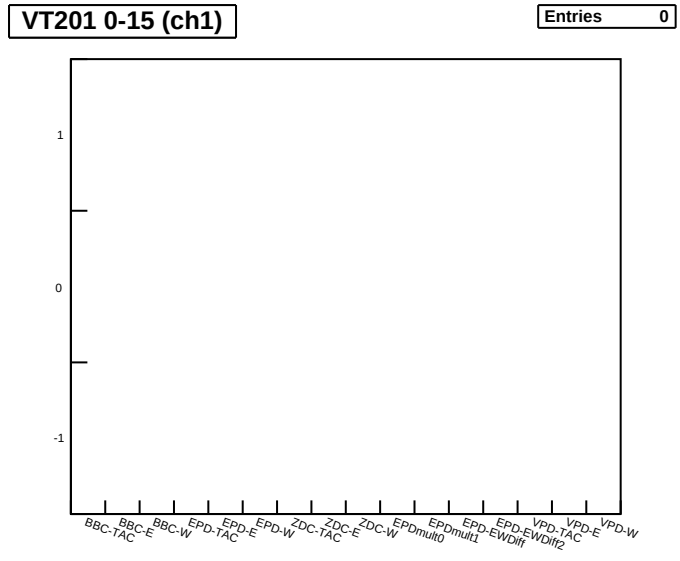
TF201 0-15 (ch0)



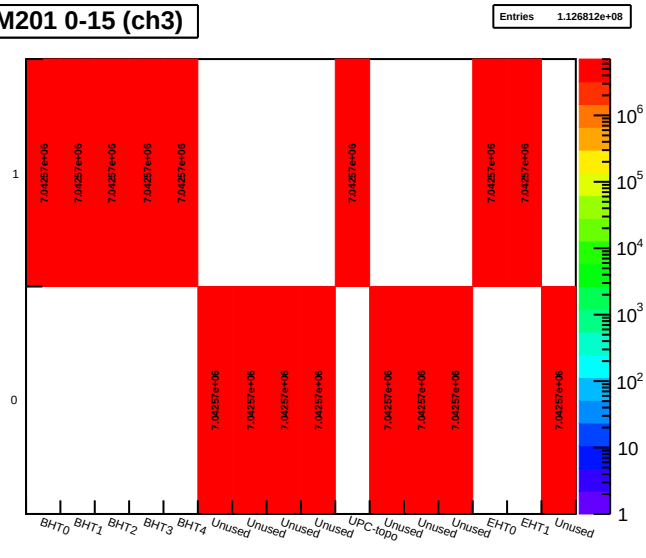
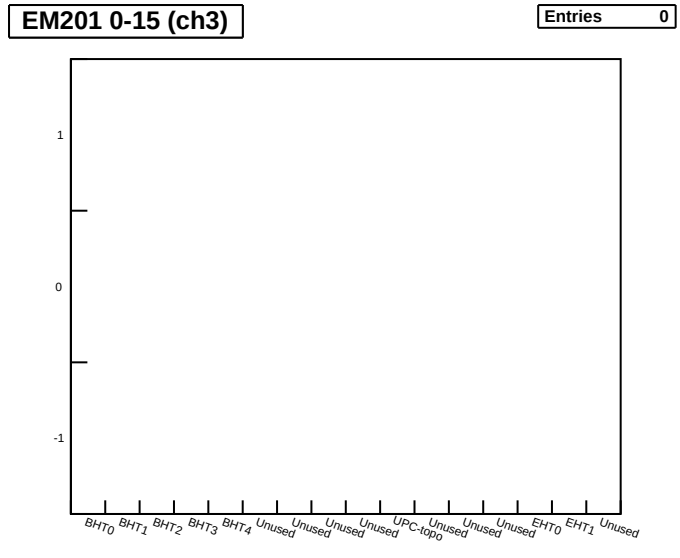
VT201 0-15 (ch1)



VT201 0-15 (ch1)



EM201 0-15 (ch3)



EM201 0-15 (ch3)