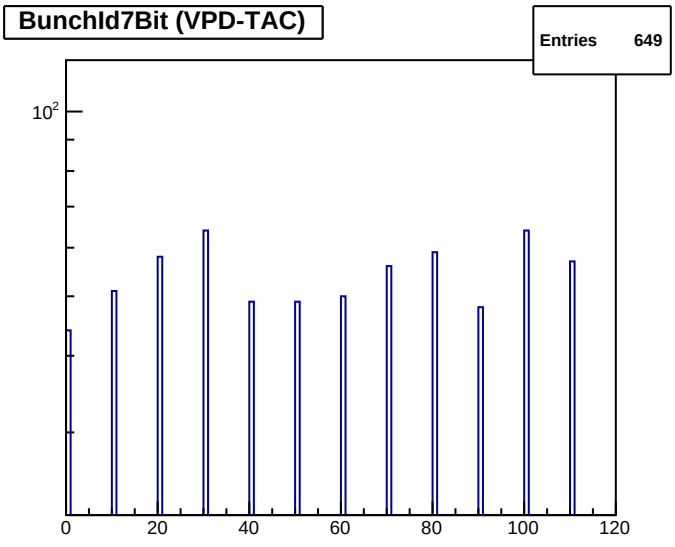
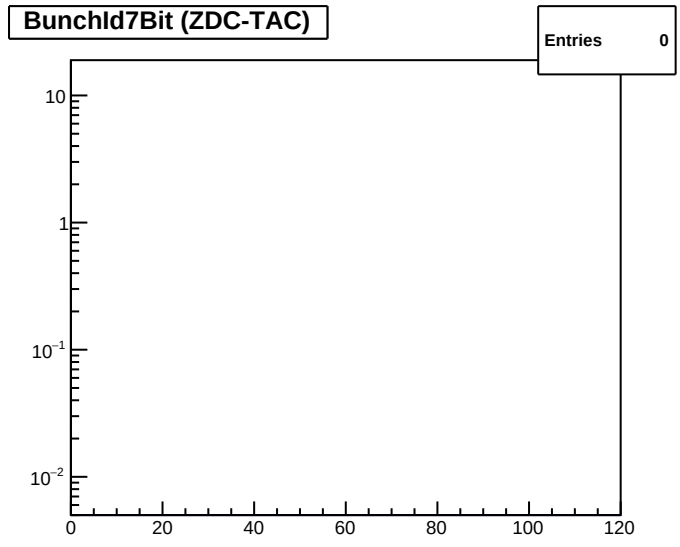
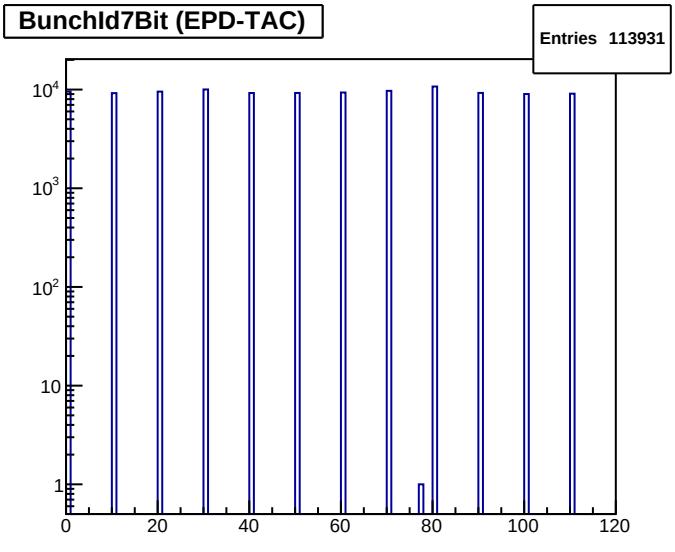
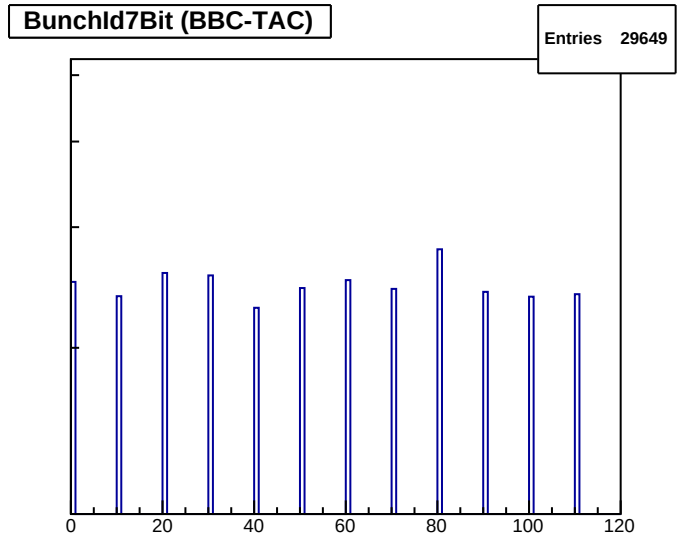
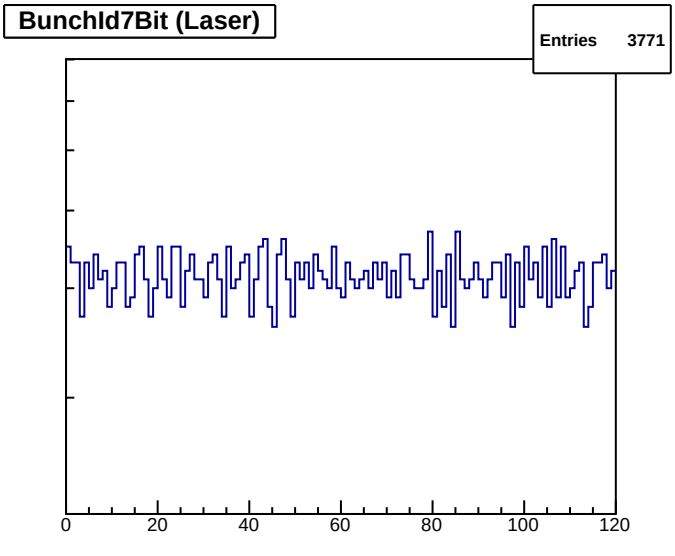
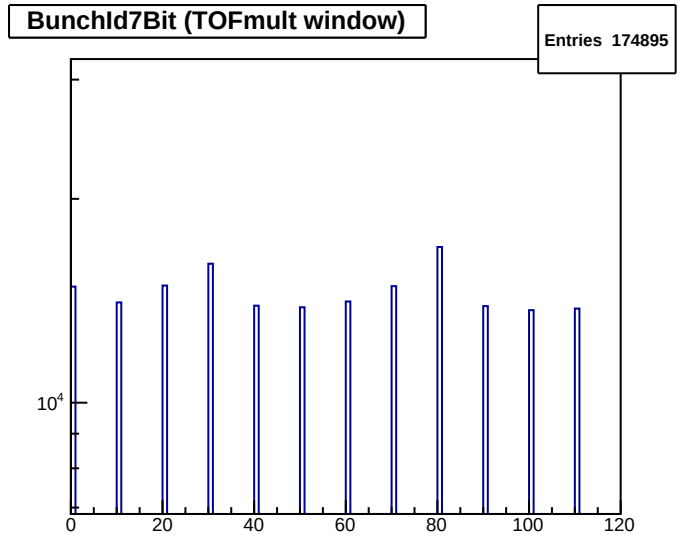

BunchId7Bit (VPD-TAC)
Entries 649
10^2
0 20 40 60 80 100 120

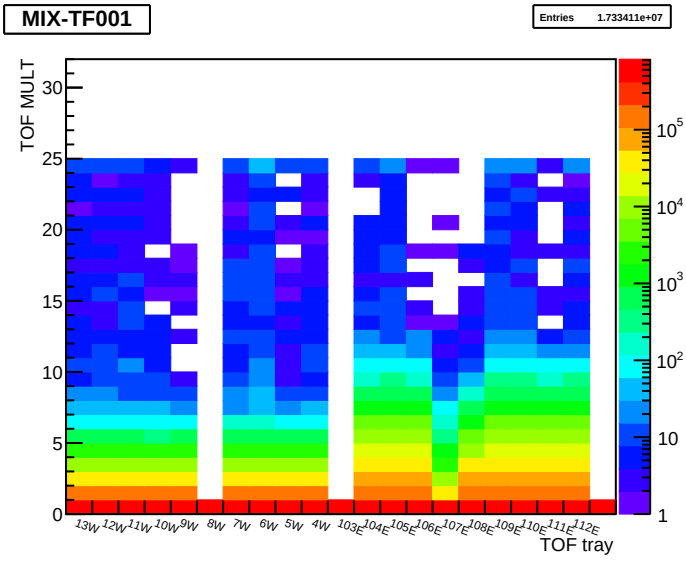

BunchId7Bit (ZDC-TAC)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

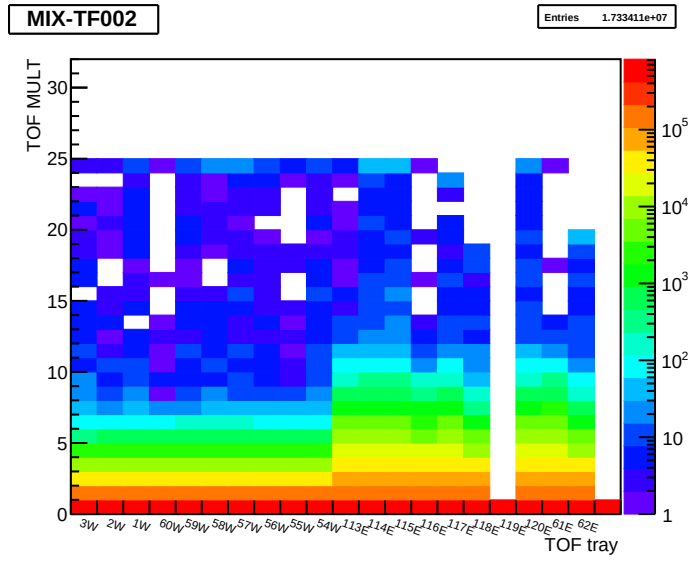

BunchId7Bit (EPD-TAC)
Entries 113931
10^4
10^3
10^2
10
1
0 20 40 60 80 100 120

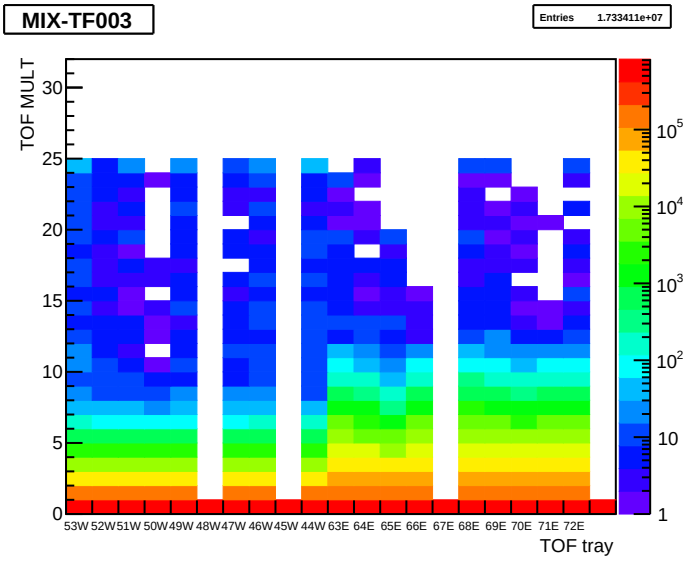

BunchId7Bit (BBC-TAC)
Entries 29649
0 20 40 60 80 100 120

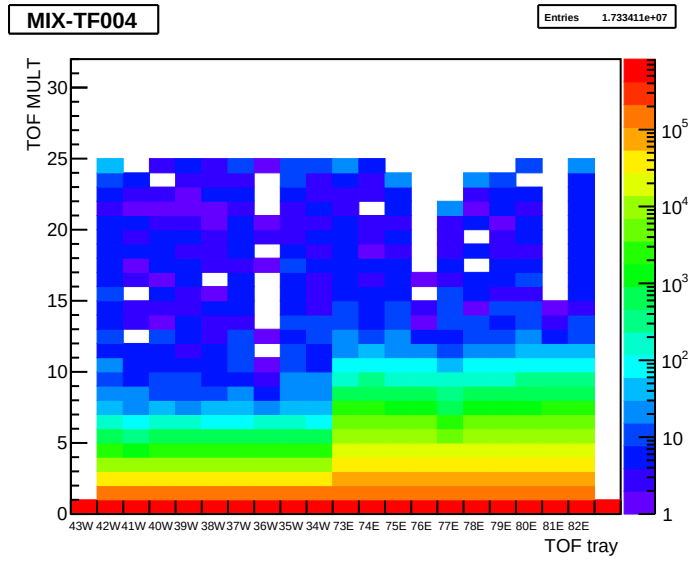

BunchId7Bit (Laser)
Entries 3771
0 20 40 60 80 100 120

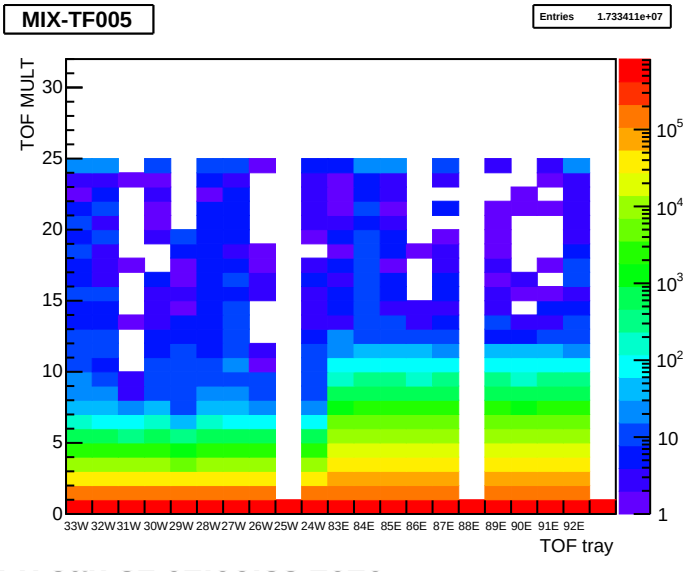

BunchId7Bit (TOFmult window)
Entries 174895
10^4
0 20 40 60 80 100 120

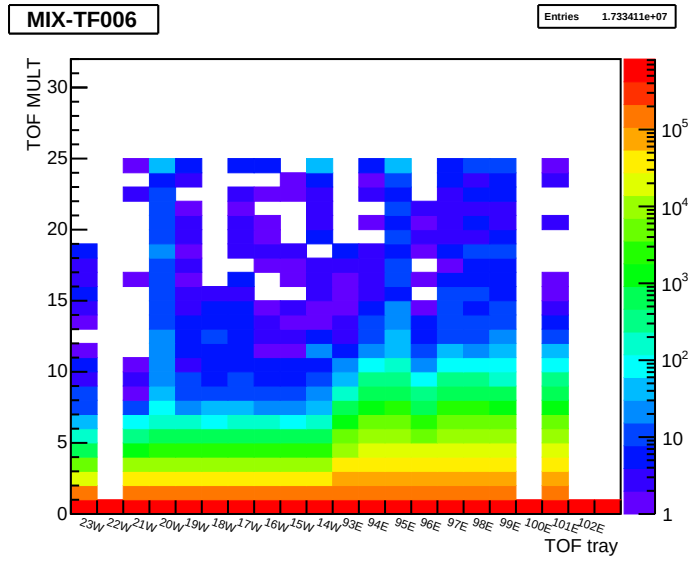

MIX-TF001
Entries 1.733411e+07
TOF MULT
TOF tray
13W 12W 11W 10W 9W 8W 7W 6W 5W 4W 103E 104E 105E 106E 107E 108E 109E 110E 111E 112E

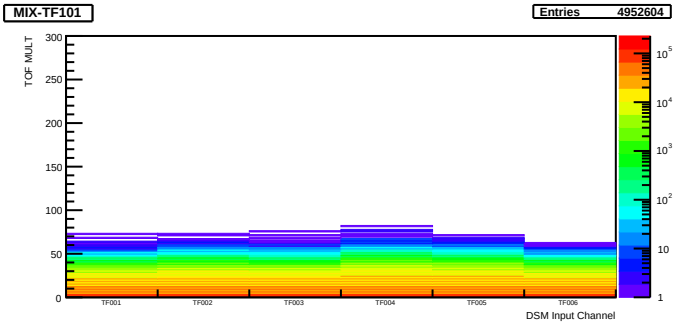

MIX-TF002
Entries 1.733411e+07
TOF MULT
TOF tray
3W 2W 1W 60W 59W 58W 57W 56W 55W 54W 113E 114E 115E 116E 117E 118E 119E 120E 61E 62E

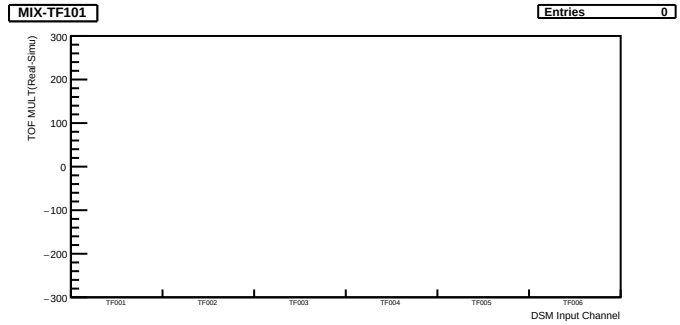

MIX-TF003
Entries 1.733411e+07
TOF MULT
TOF tray
53W 52W 51W 50W 49W 48W 47W 46W 45W 44W 63E 64E 65E 66E 67E 68E 69E 70E 71E 72E

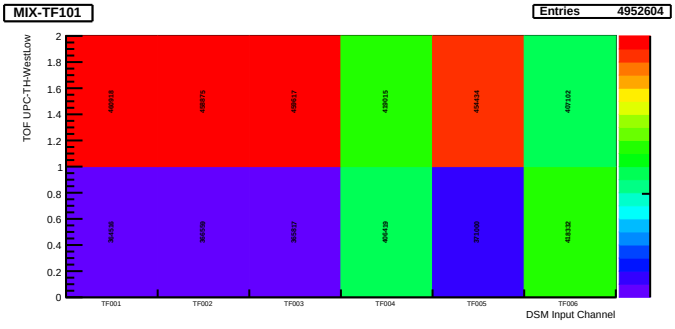

MIX-TF004
Entries 1.733411e+07
TOF MULT
TOF tray
43W 42W 41W 40W 39W 38W 37W 36W 35W 34W 73E 74E 75E 76E 77E 78E 79E 80E 81E 82E

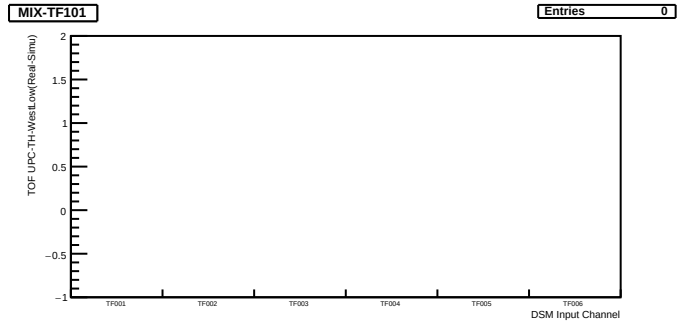

MIX-TF005
Entries 1.733411e+07
TOF MULT
TOF tray
33W 32W 31W 30W 29W 28W 27W 26W 25W 24W 83E 84E 85E 86E 87E 88E 89E 90E 91E 92E

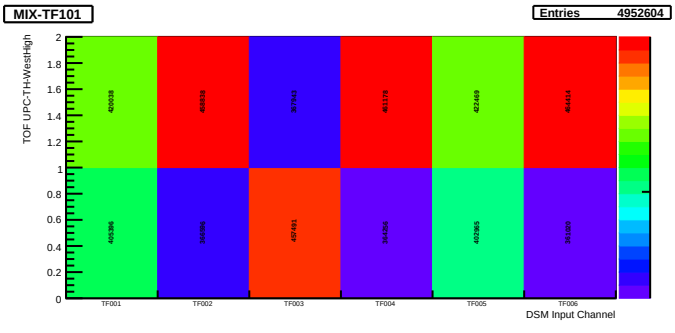

MIX-TF006
Entries 1.733411e+07
TOF MULT
TOF tray
23W 22W 21W 20W 19W 18W 17W 16W 15W 14W 93E 94E 95E 96E 97E 98E 99E 100E 101E 102E

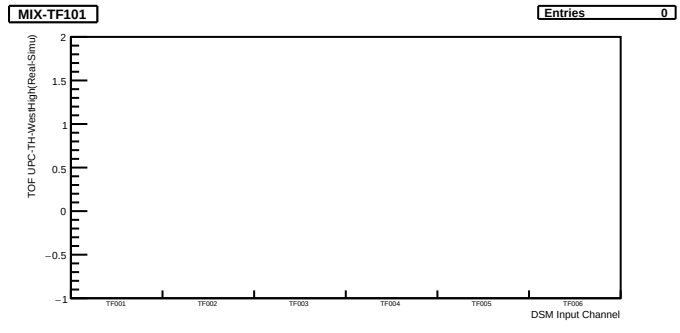

MIX-TF101
Entries 4952604
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

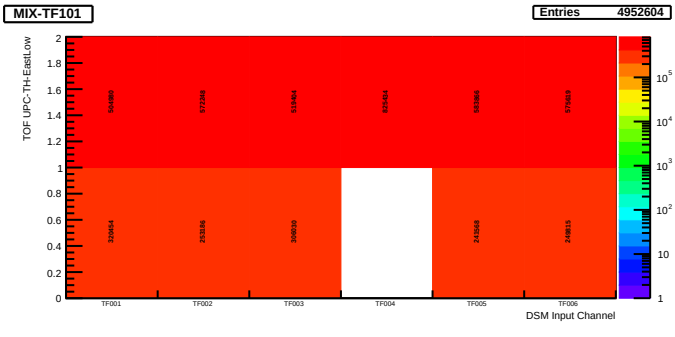

MIX-TF101
Entries 0
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

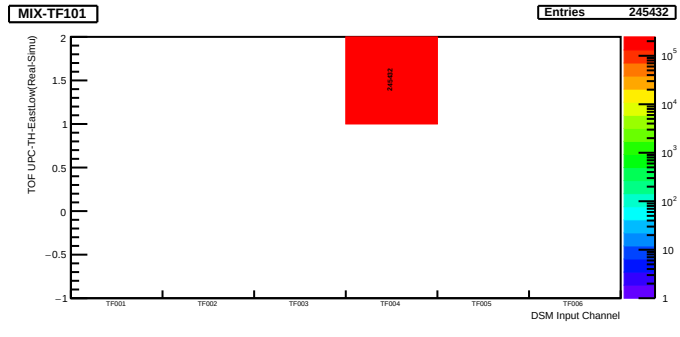

MIX-TF101
Entries 4952604
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

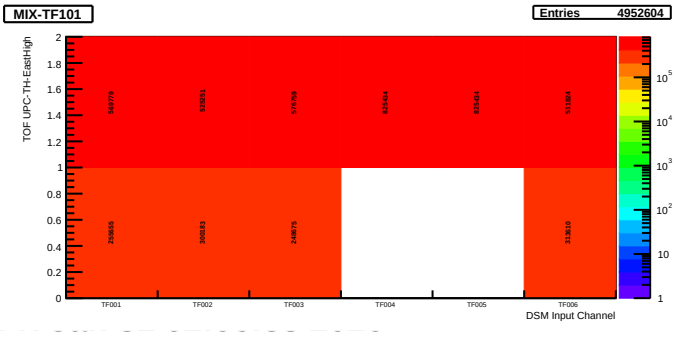

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

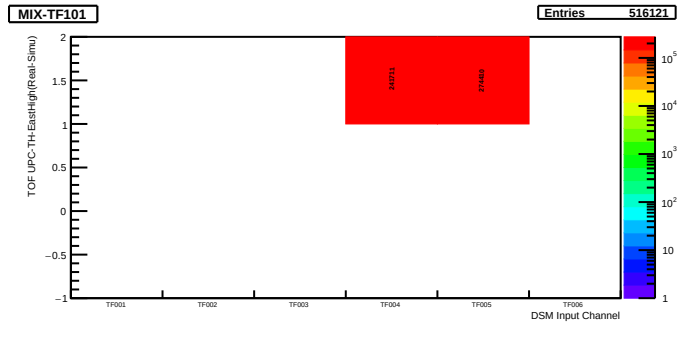

MIX-TF101
Entries 4952604
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

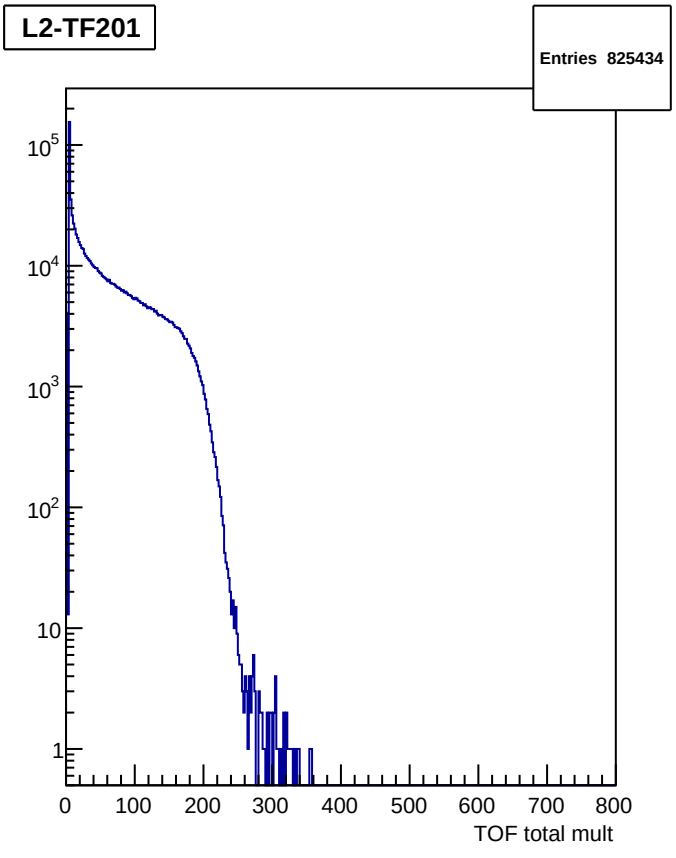

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

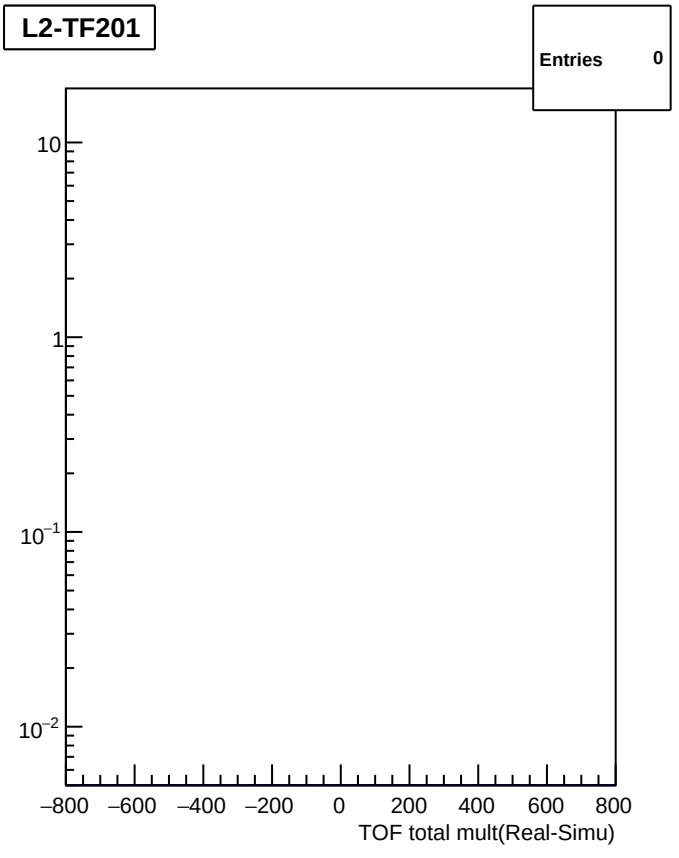

MIX-TF101
Entries 4952604
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

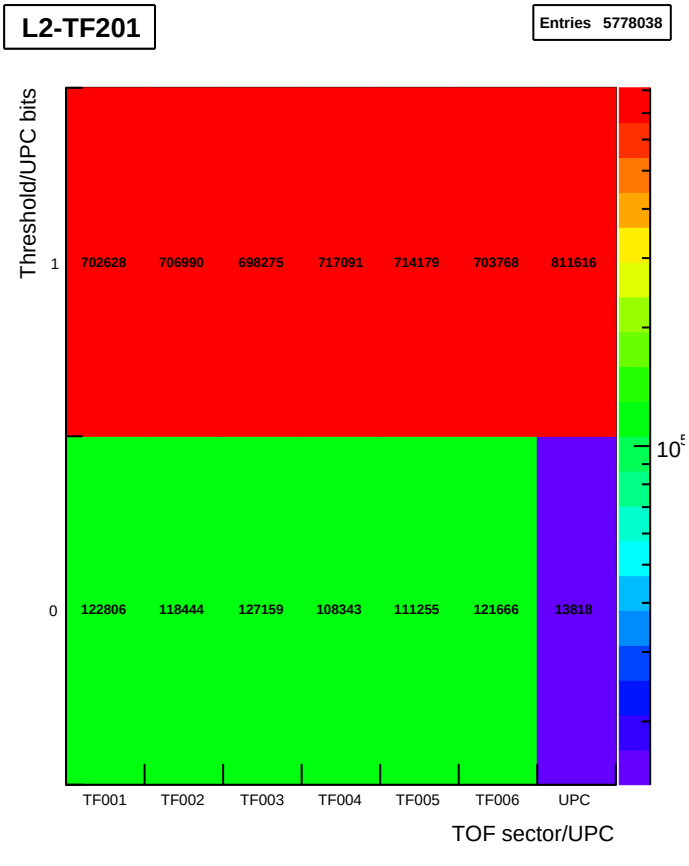

MIX-TF101
Entries 245432
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

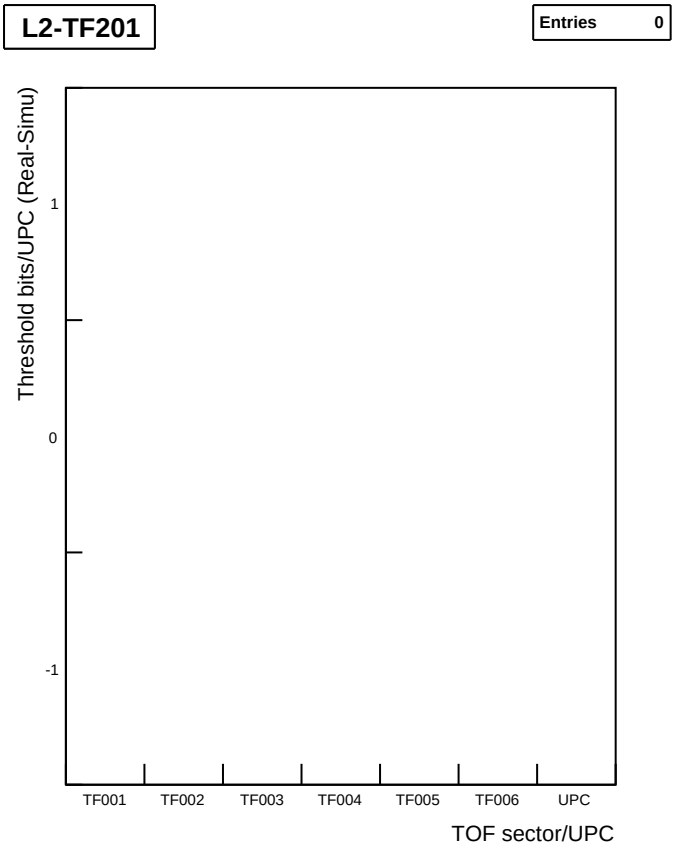

MIX-TF101
Entries 4952604
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

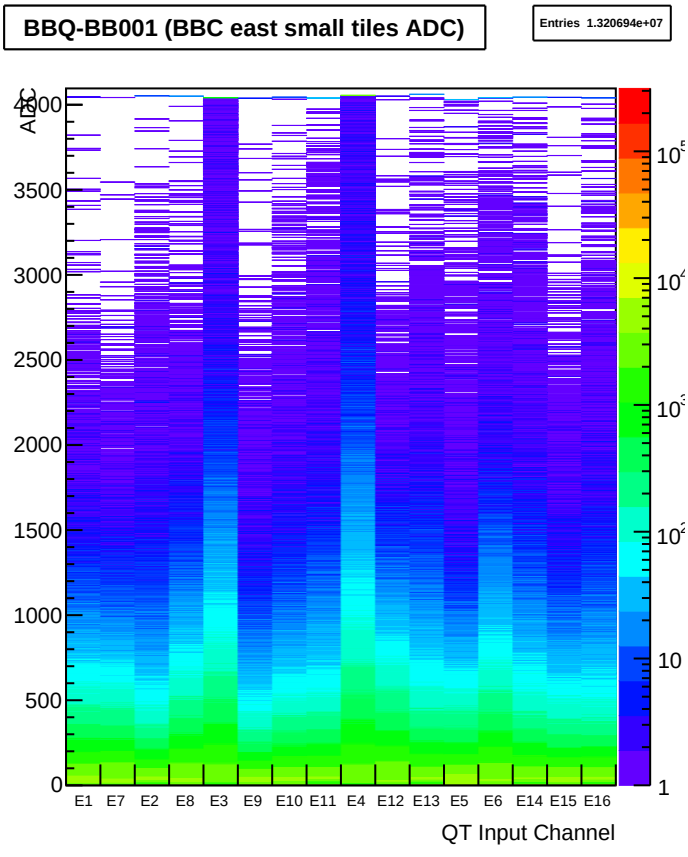

MIX-TF101
Entries 516121
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

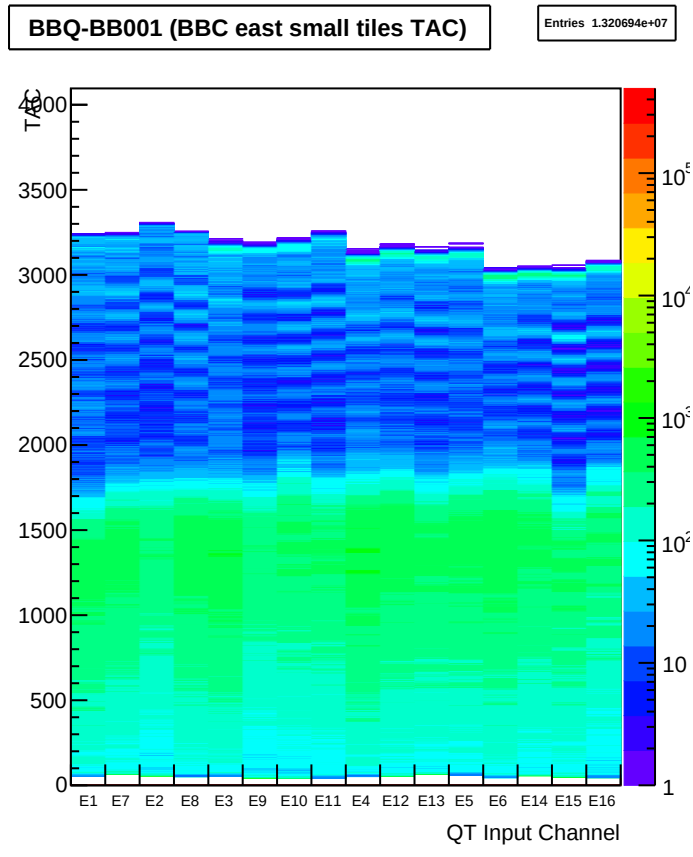

L2-TF201
Entries 825434
TOF total mult

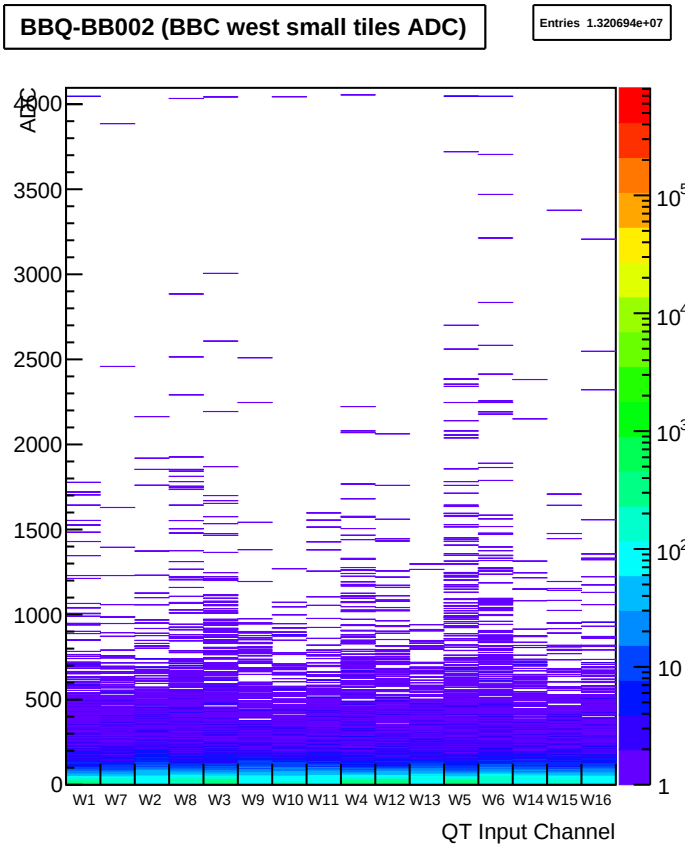

L2-TF201
Entries 0
TOF total mult(Real-Simu)

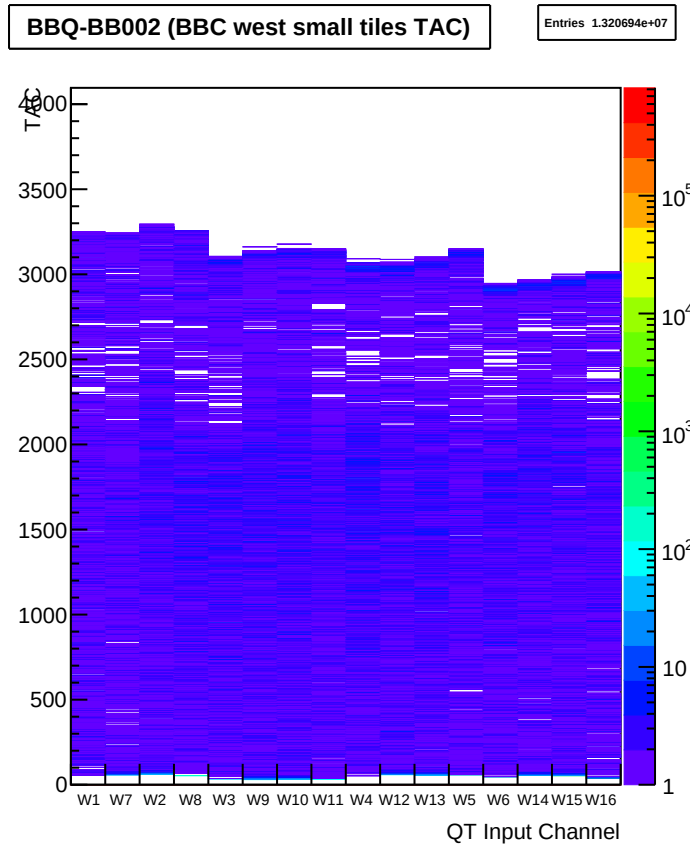

L2-TF201
Entries 5778038
Threshold/UPC bits
702628 706990 698275 717091 714179 703768 811616
122806 118444 127159 108343 111255 121666 13818
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

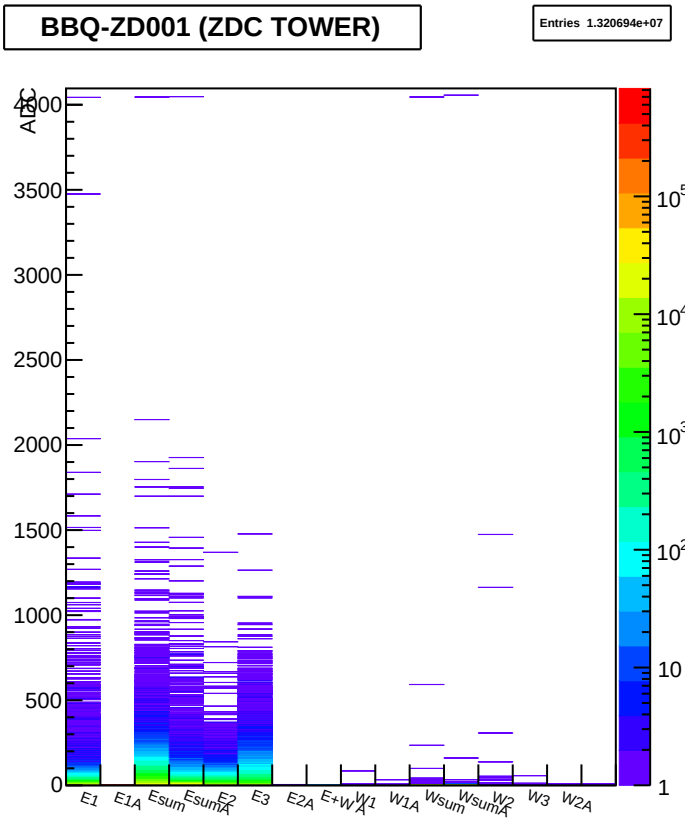

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

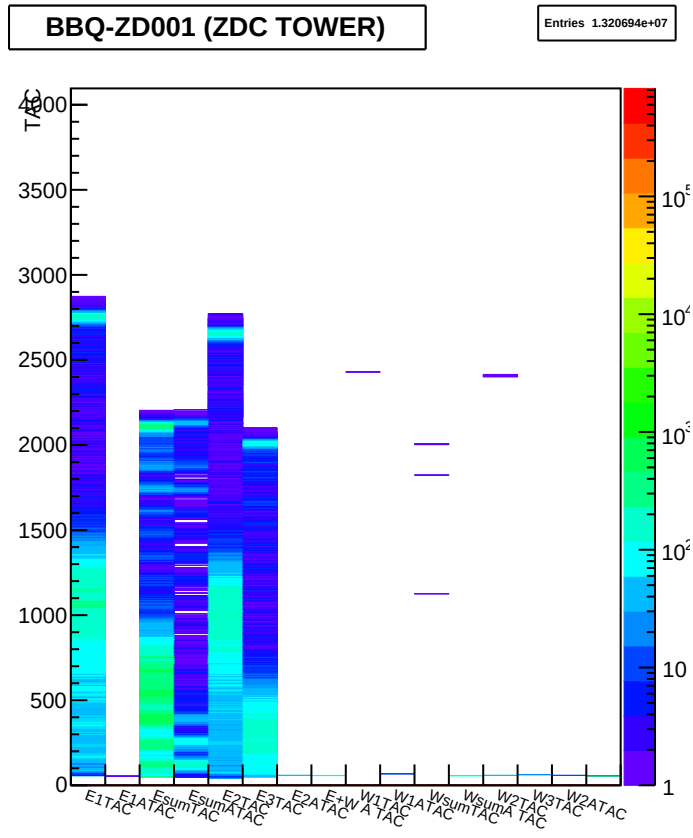

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.320694e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

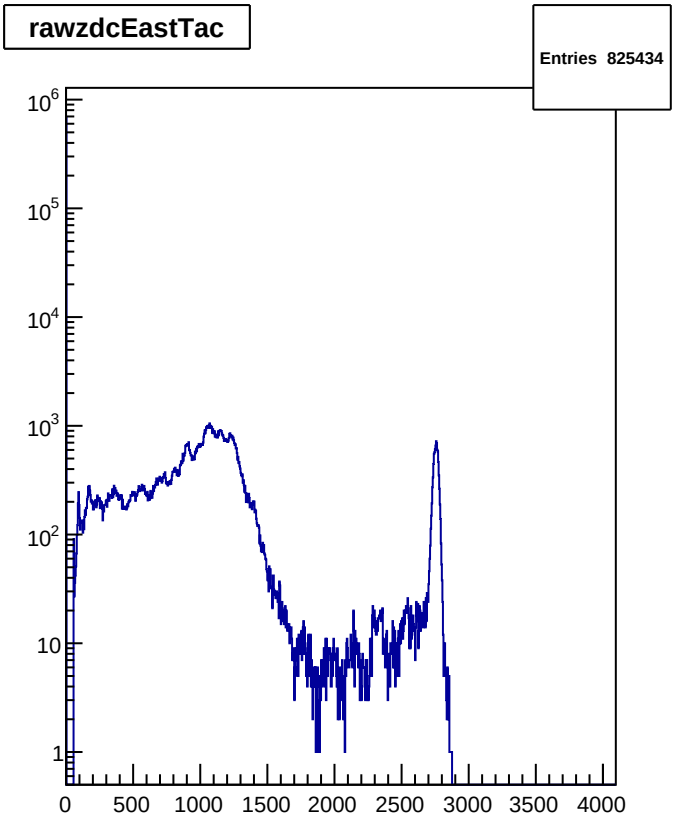

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.320694e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

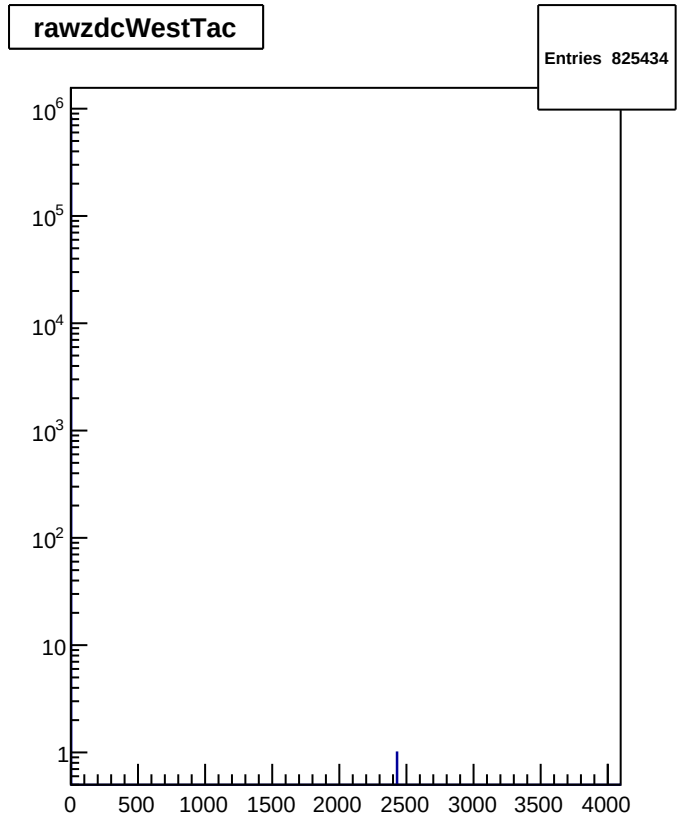

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.320694e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

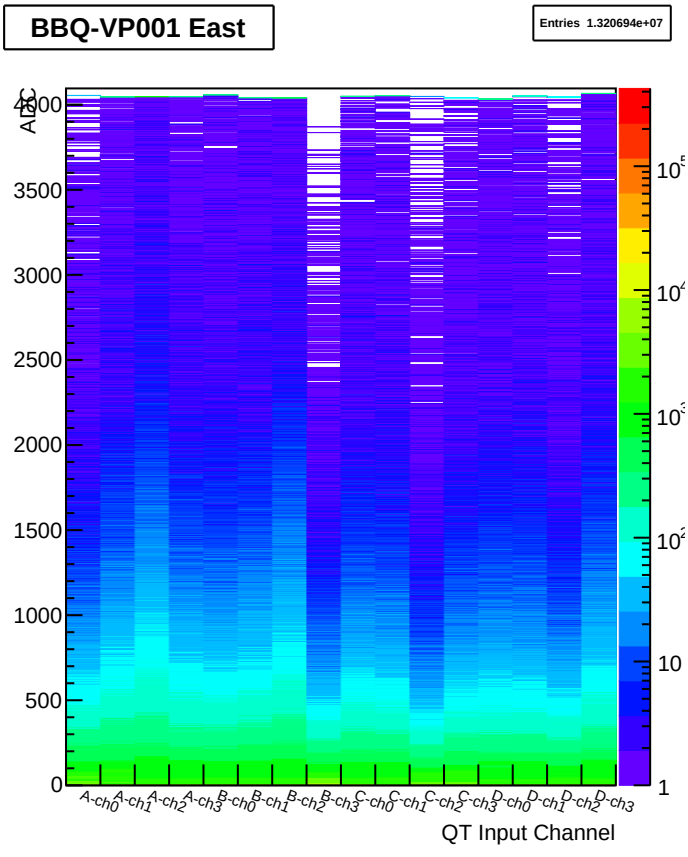

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.320694e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

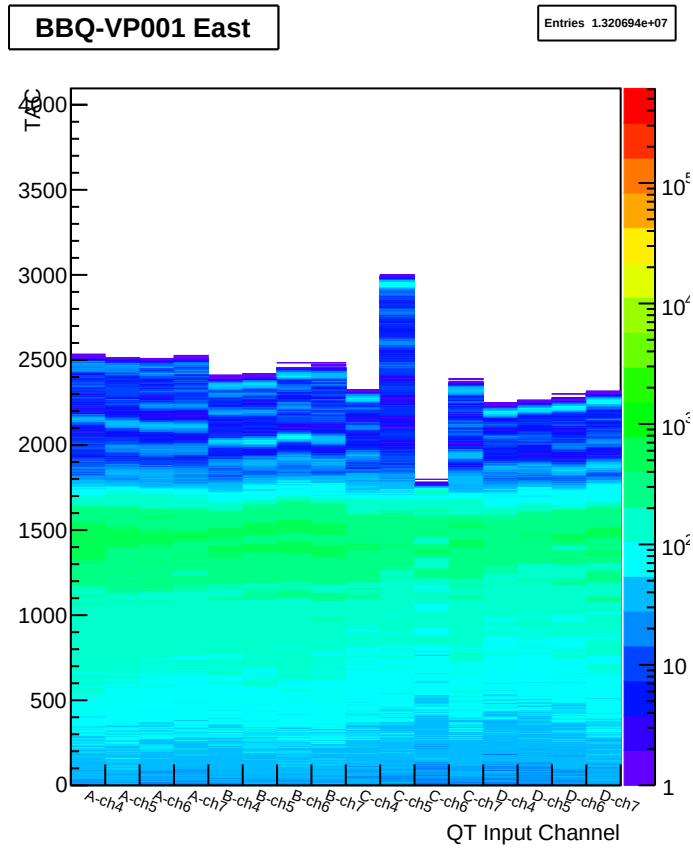

BBQ-ZD001 (ZDC TOWER)
Entries 1.320694e+07
ADC
E1
E1A
Esum
EsumA
E2
E3
E2A
E+W
W1
W1A
Wsum
WsumA
W2
W3
W2A

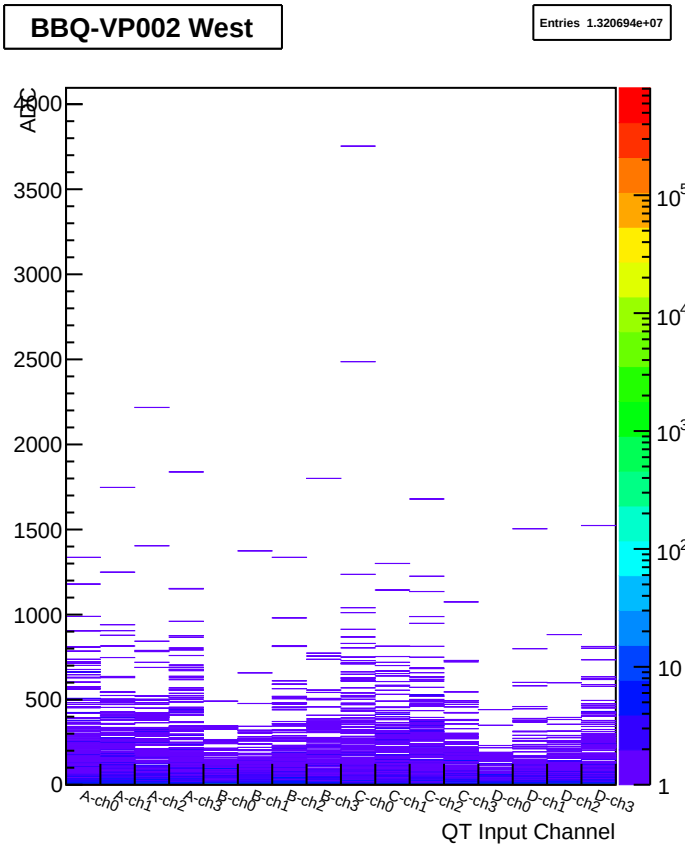

BBQ-ZD001 (ZDC TOWER)
Entries 1.320694e+07
TAC
E1TAC
E1ATAC
EsumTAC
EsumATAC
E2TAC
E3TAC
E2ATAC
E+W TAC
W1TAC
W1ATAC
WsumTAC
WsumA TAC
W2TAC
W3TAC
W2ATAC

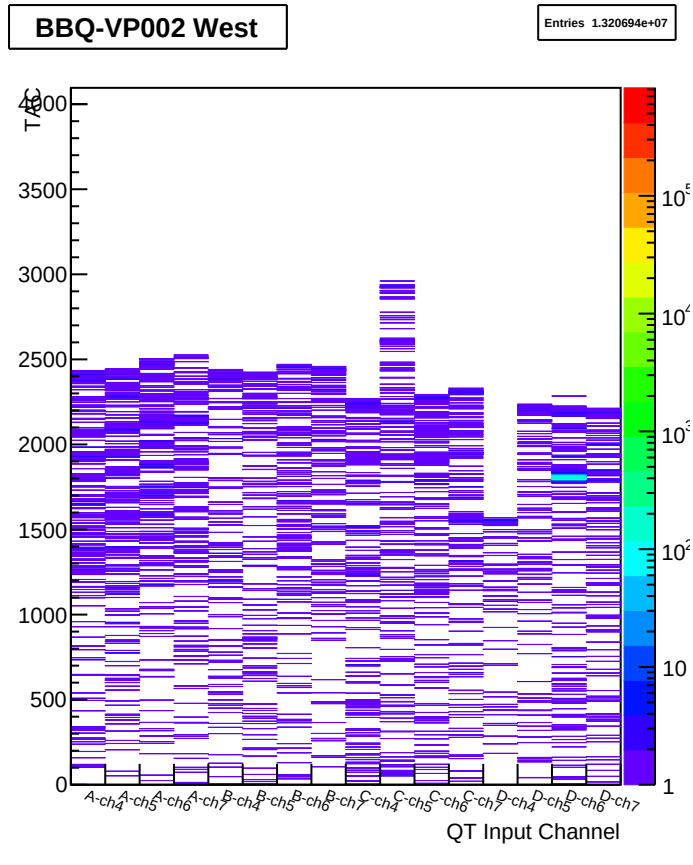

rawzdcEastTac
Entries 825434

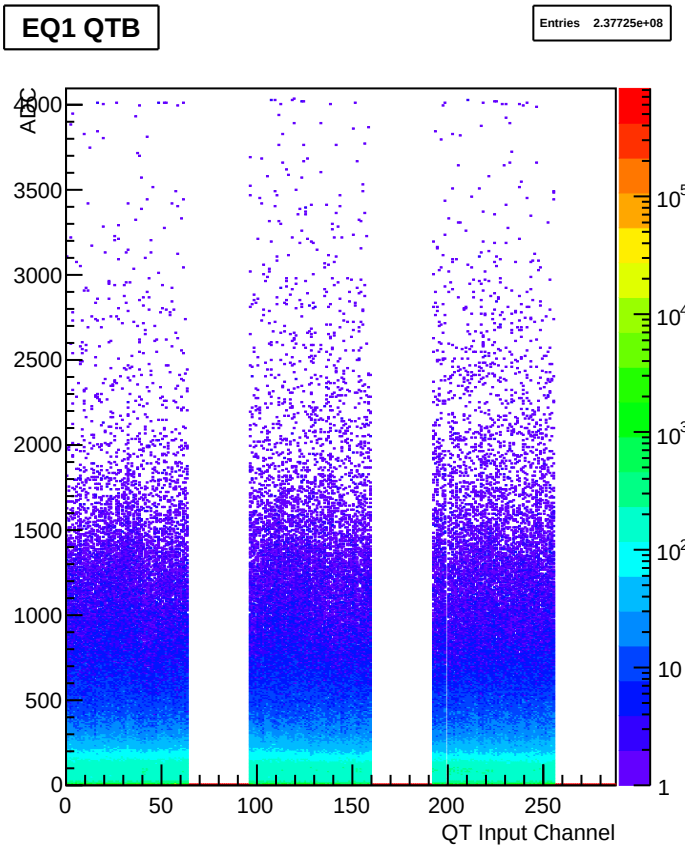

rawzdcWestTac
Entries 825434

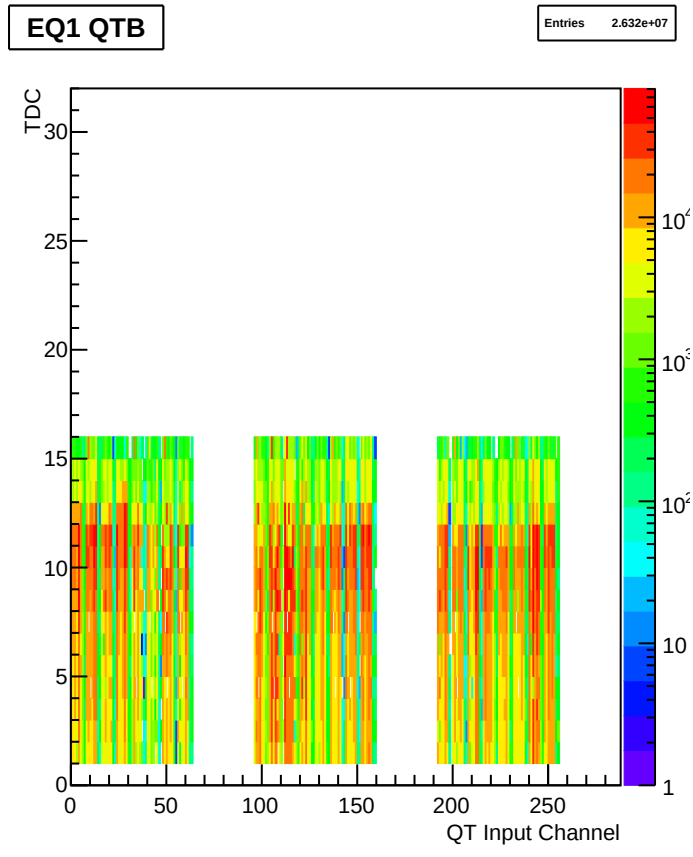

BBQ-VP001 East
Entries 1.320694e+07
ADC
QT Input Channel

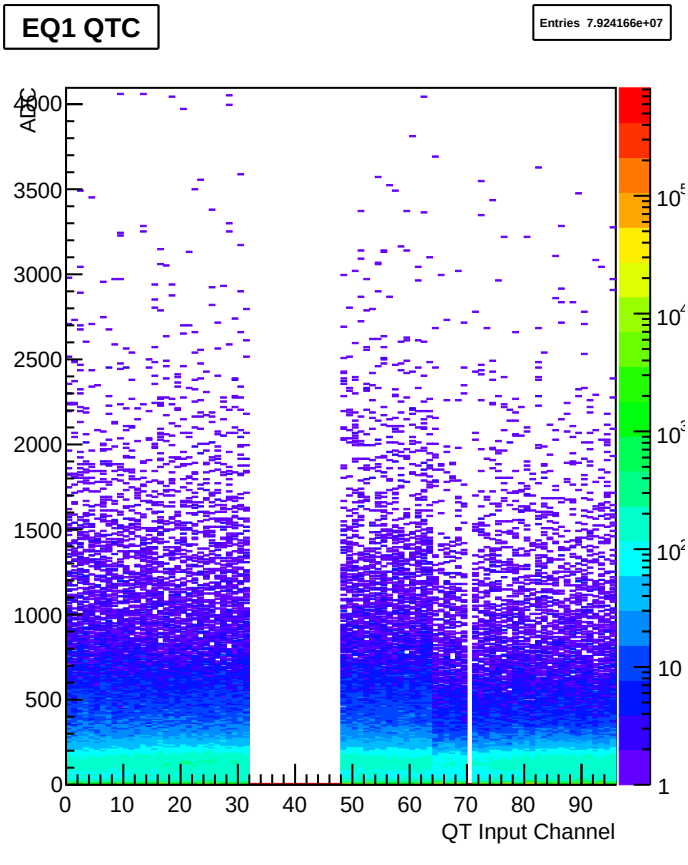

BBQ-VP001 East
Entries 1.320694e+07
ADC
QT Input Channel

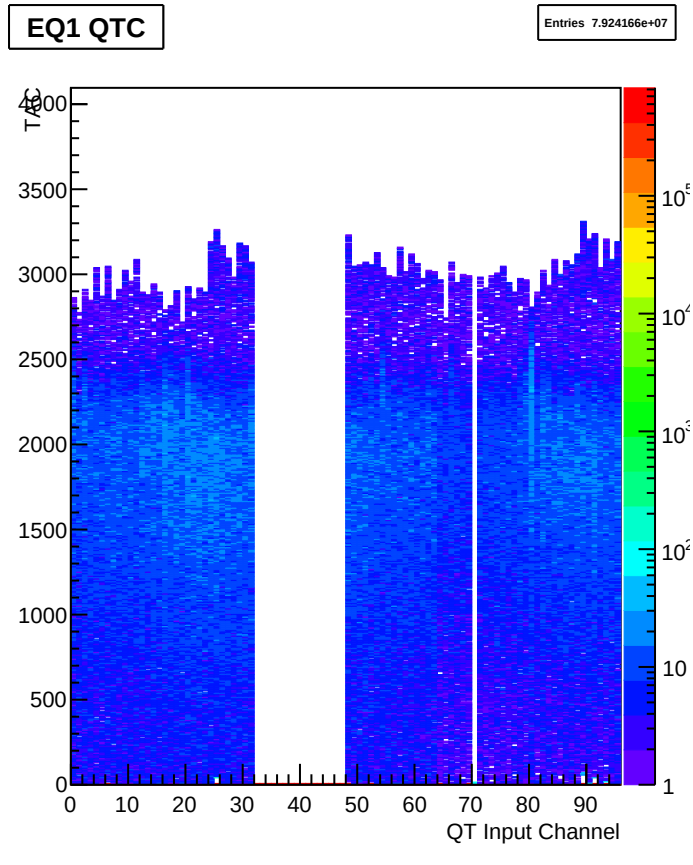

BBQ-VP002 West
Entries 1.320694e+07
ADC
QT Input Channel

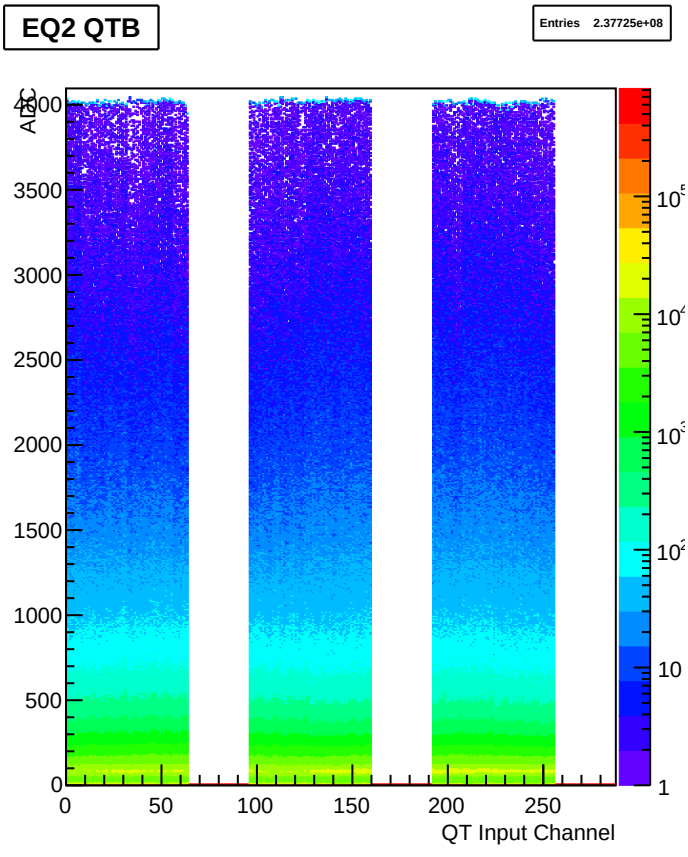

BBQ-VP002 West
Entries 1.320694e+07
ADC
QT Input Channel

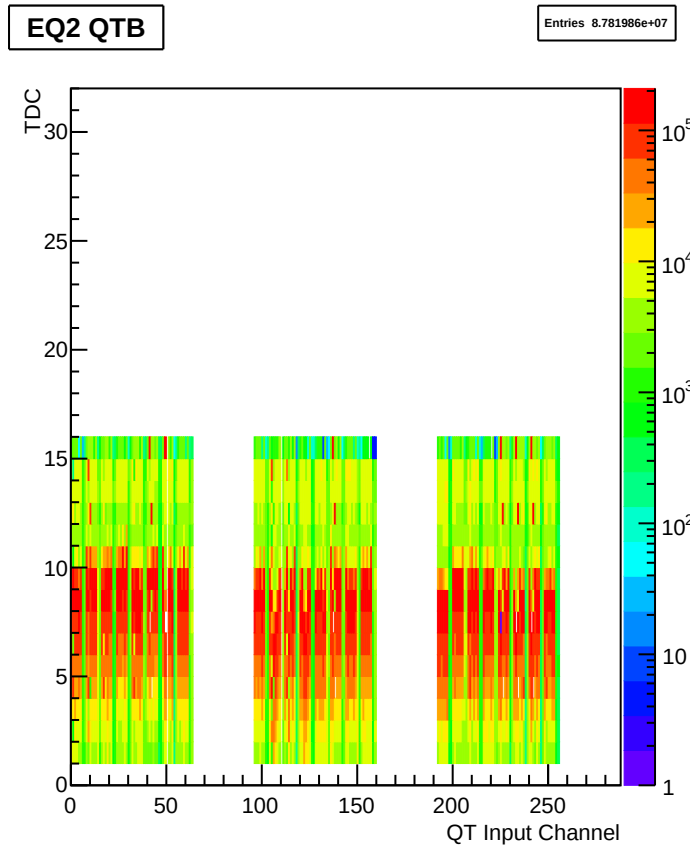

EQ1 QTB
Entries 2.37725e+08
ADC
QT Input Channel

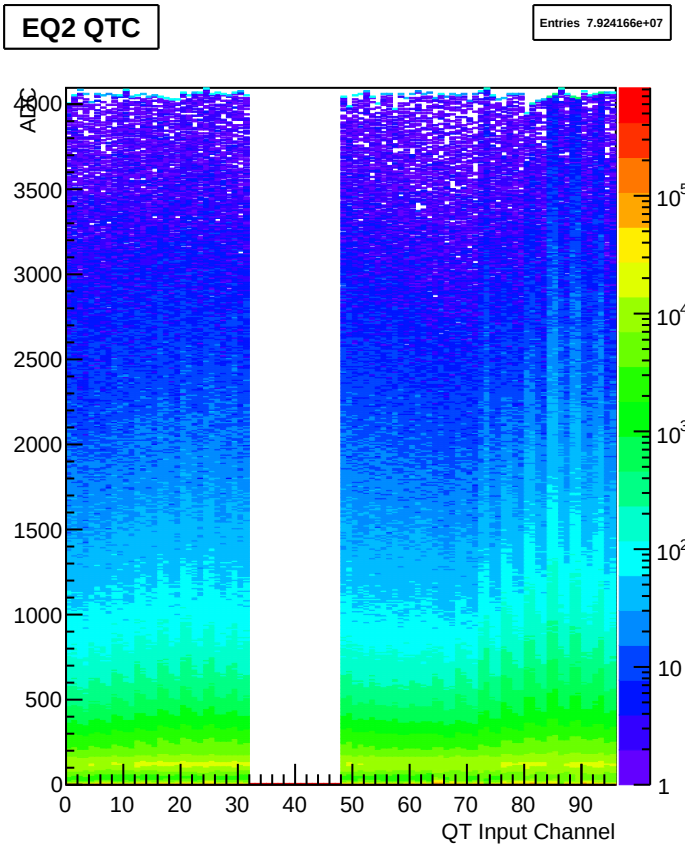

EQ1 QTB
Entries 2.632e+07
TDC
QT Input Channel

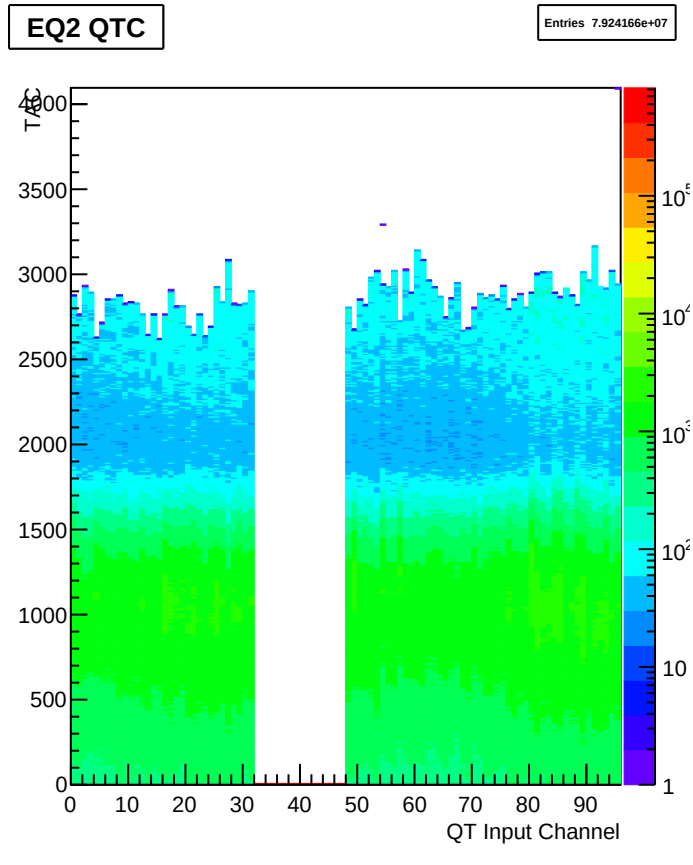

EQ1 QTC
Entries 7.924166e+07
ADC
QT Input Channel

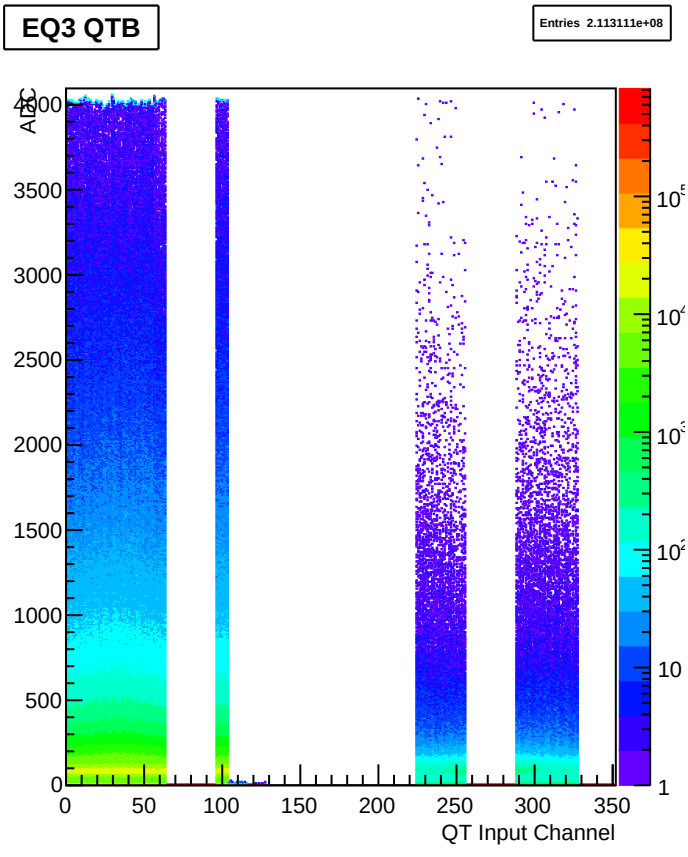

EQ1 QTC
Entries 7.924166e+07
TADC
QT Input Channel

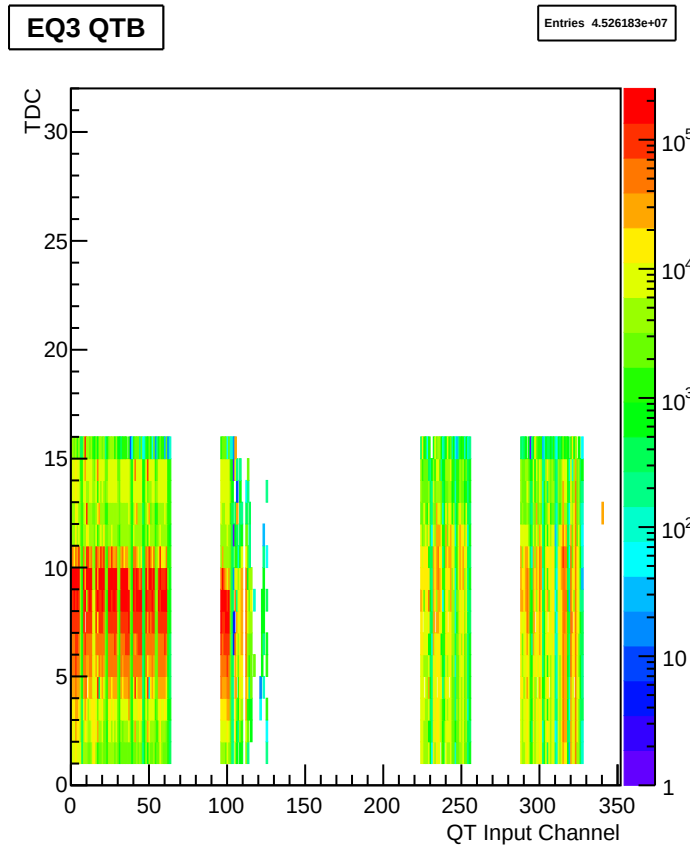

EQ2 QTB
Entries 2.37725e+08
ADC
QT Input Channel

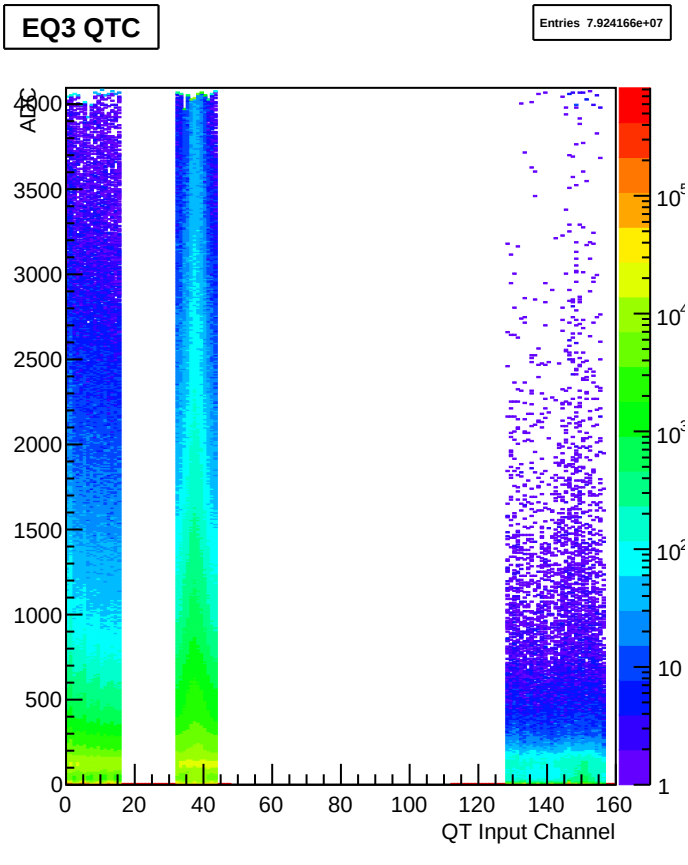

EQ2 QTB
Entries 8.781986e+07
TDC
QT Input Channel


EQ2 QTC
Entries 7.924166e+07
ADC
QT Input Channel


EQ2 QTC
Entries 7.924166e+07
TADC
QT Input Channel


EQ3 QTB
Entries 2.113111e+08
ADC
QT Input Channel


EQ3 QTB
Entries 4.526183e+07
TDC
QT Input Channel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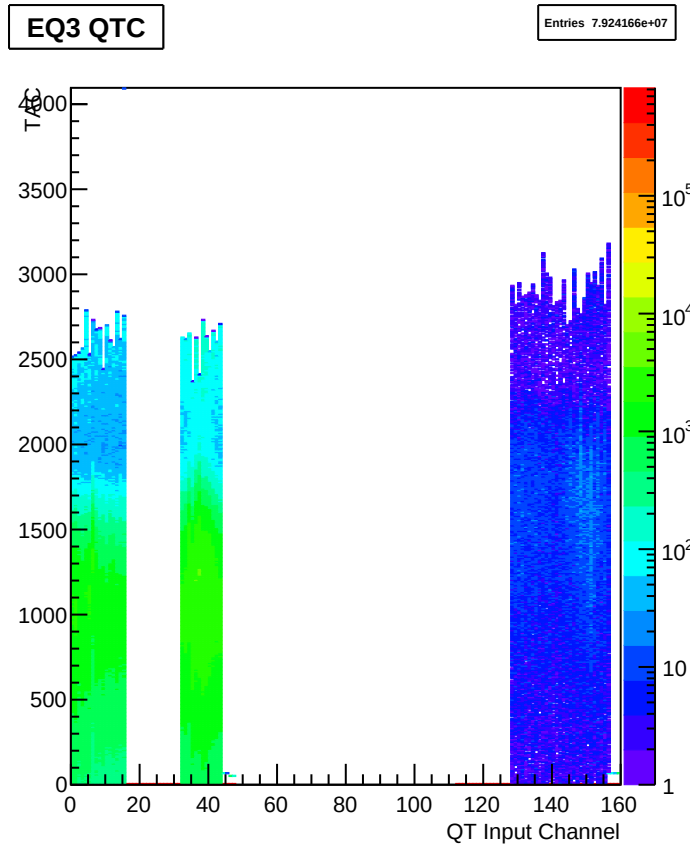
Entries 7.924166e+07
ADC
QT Input Channel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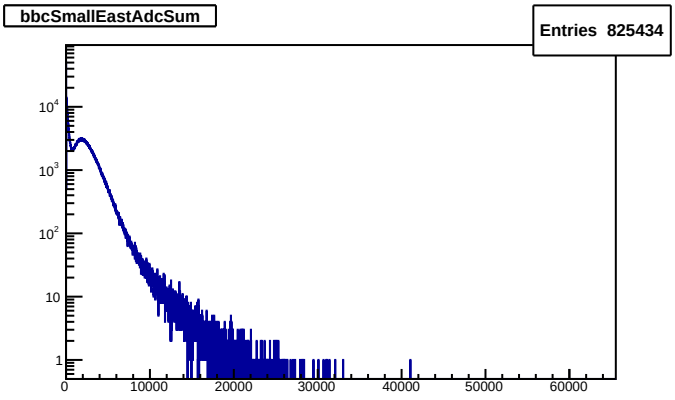
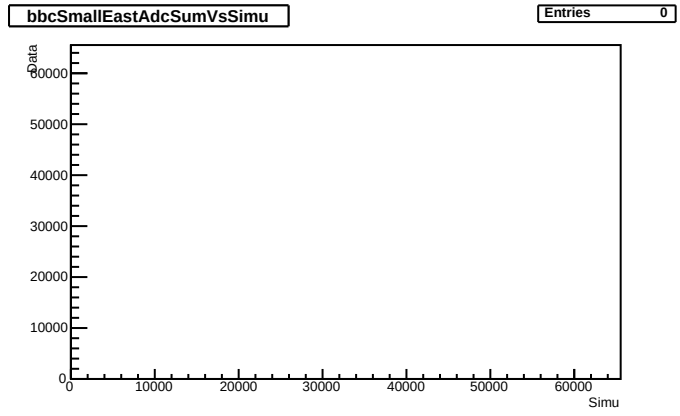
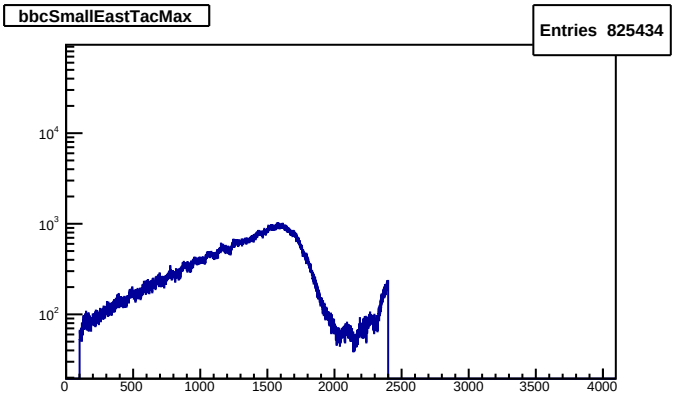
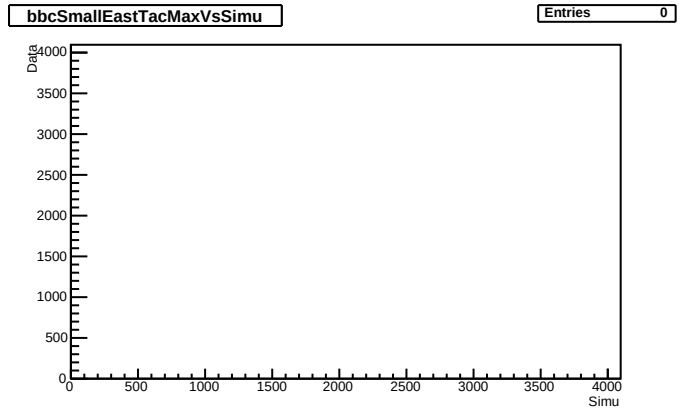
Entries 7.924166e+07
TADC
QT Input Channel


bbcSmallEastAdcSum
Entries 825434


bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu


bbcSmallEastTacMax
Entries 825434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Entries 0
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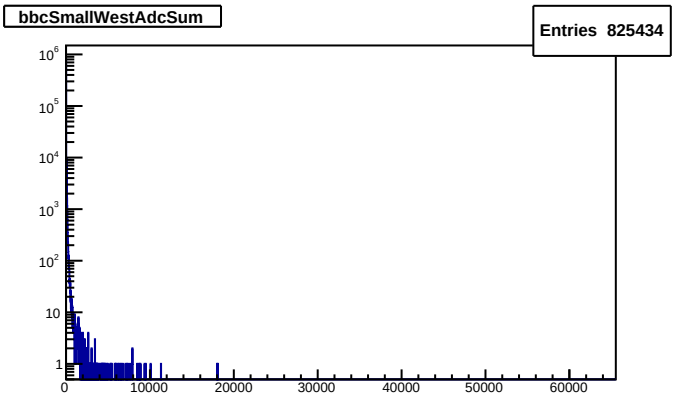
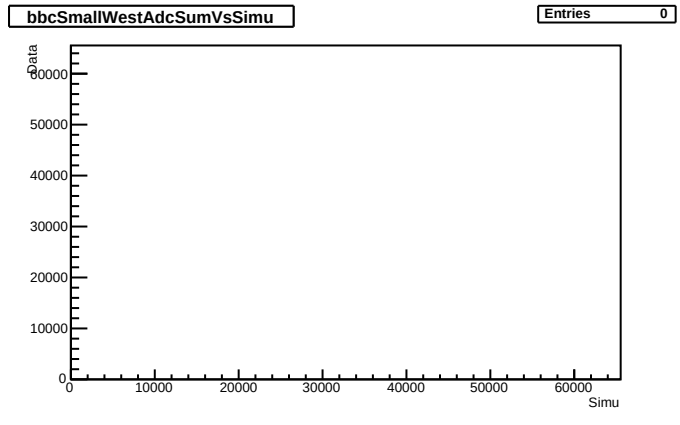

bbcSmallWestAdcSum
Entries 825434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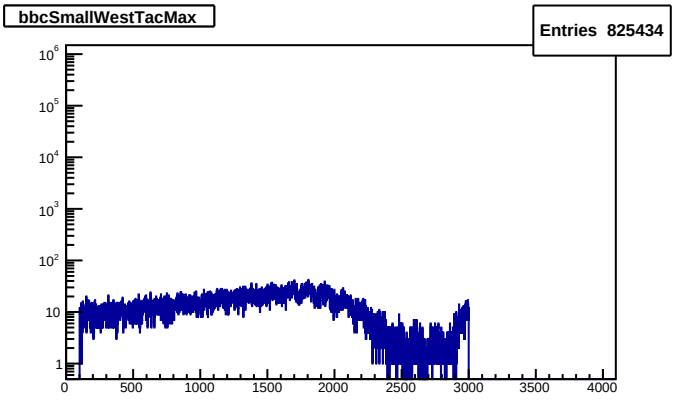
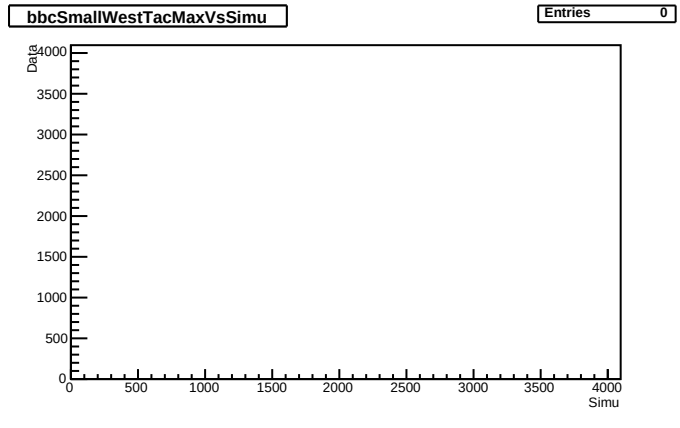
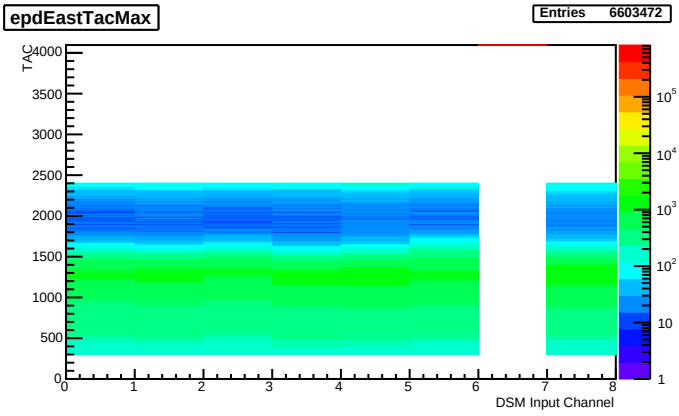
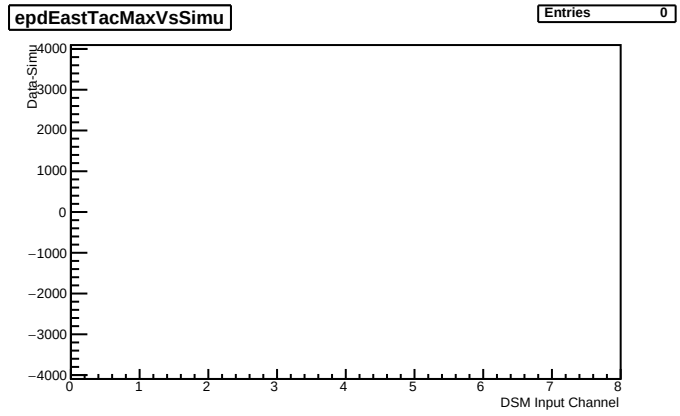
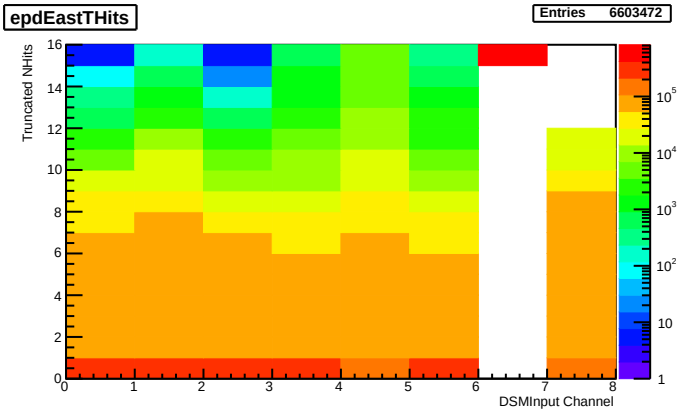
Entries 0
Data
Simu

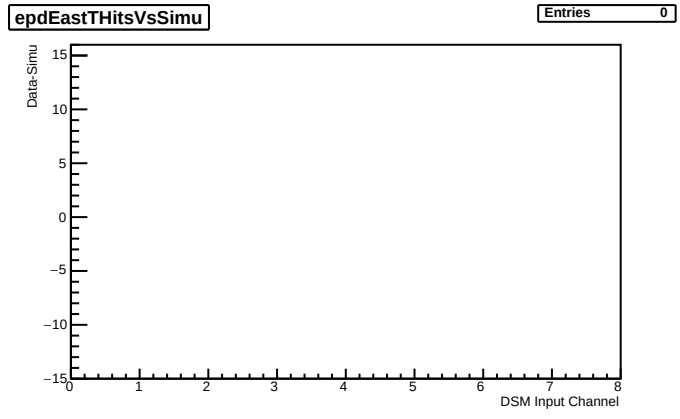

bbcSmallWestTacMax
Entries 825434


bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu


epdEastTacMax
Entries 6603472
TAC
DSM Input Channel


epdEastTacMaxVsSimu
Entries 0
Data-Simu
DSM Input Channel


epdEastTHits
Entries 6603472
Truncated NHits
DSMInput Channel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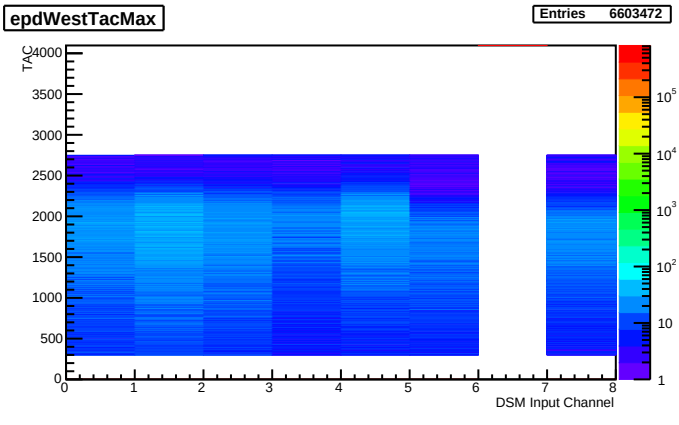
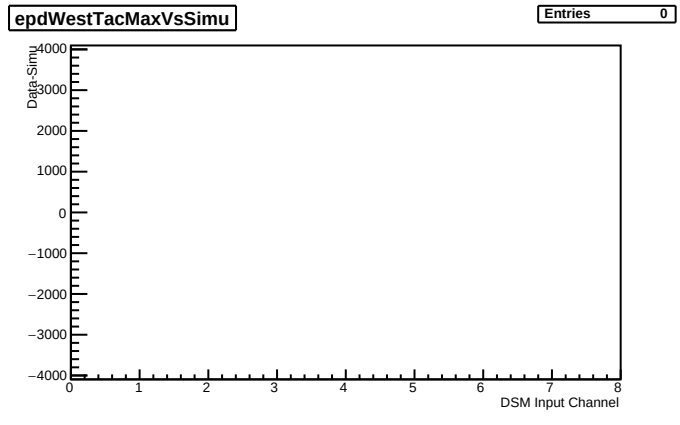
Data-Simu
DSM Input Channel


epdWestTacMax
Entries 6603472
TAC
DSM Input Channel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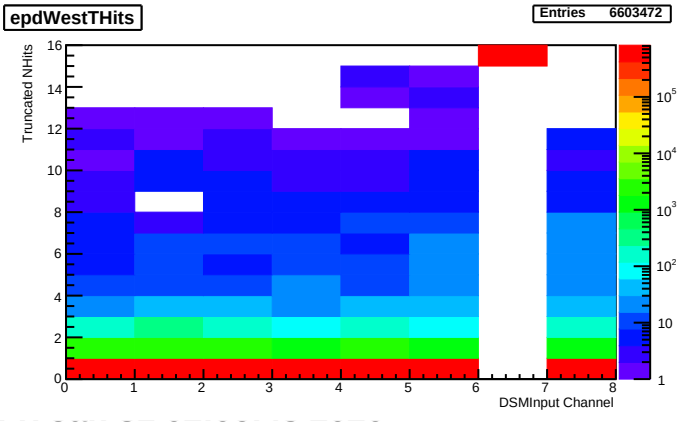
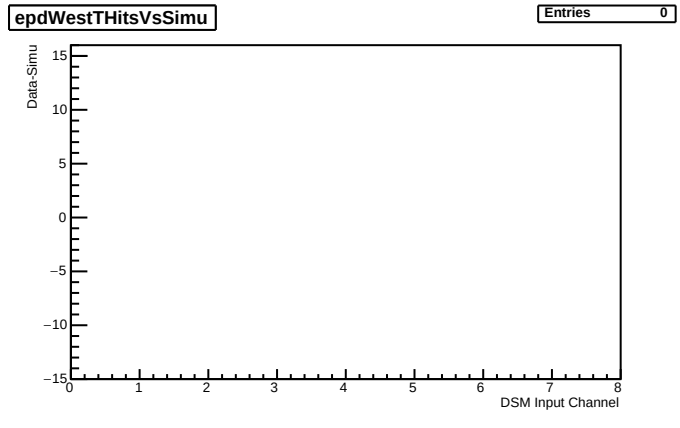
Entries 0
Data-Simu
DSM Input Channel


epdWestTHits
Entries 6603472
Truncated NHits
DSMInput Channel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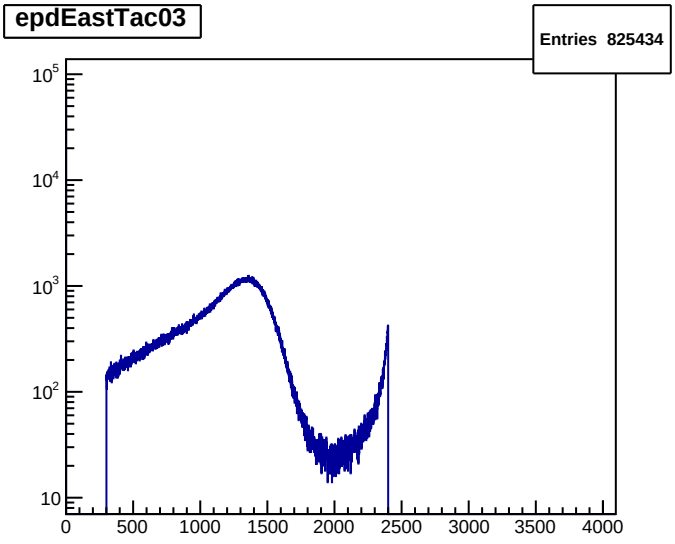
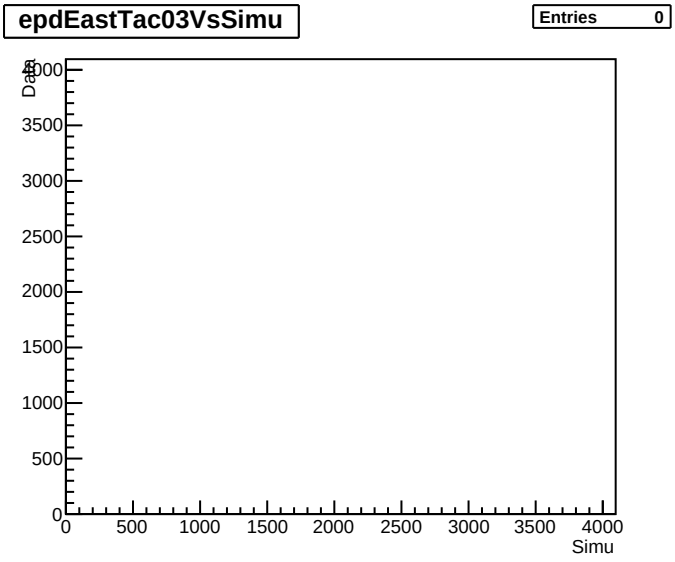
DSM Input Channel


epdEastTac03
Entries 825434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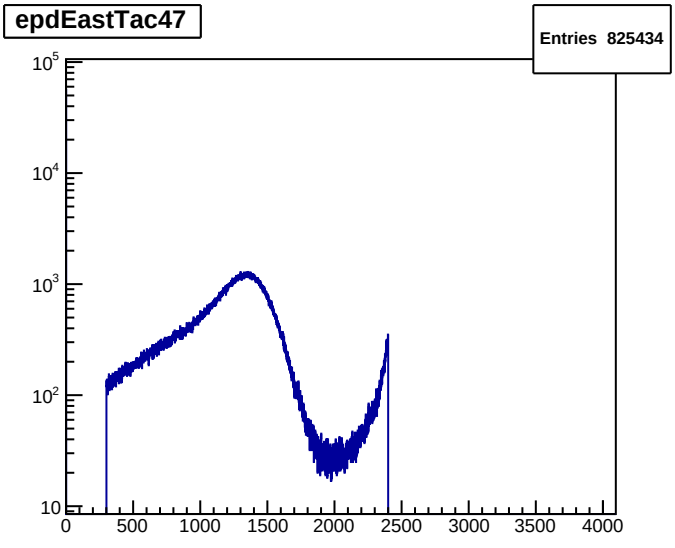
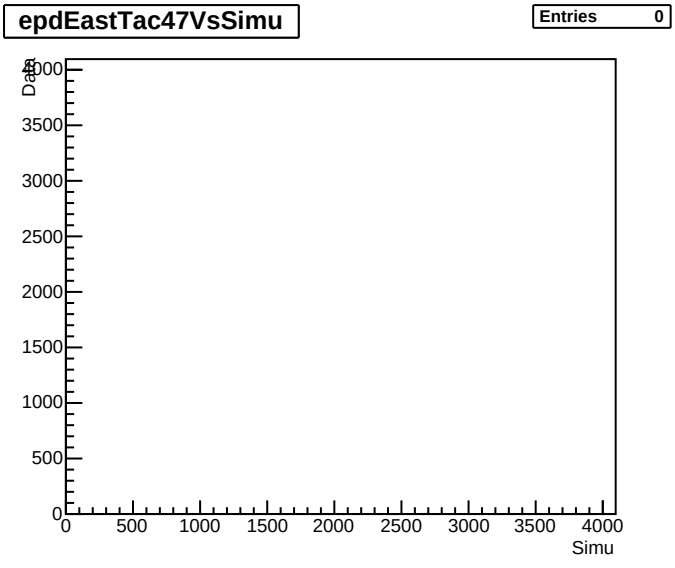
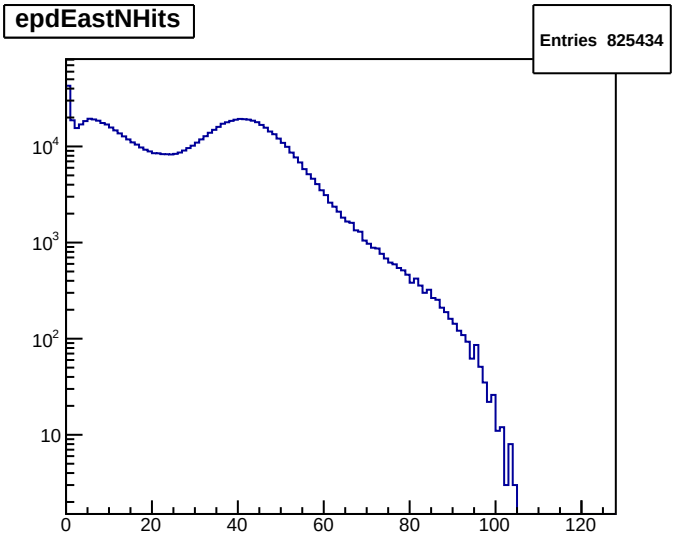
Entries 0
Data
Simu


epdEastTac47
Entries 825434


epdEastTac47VsSimu
Entries 0
Data
Simu


epdEastNHits
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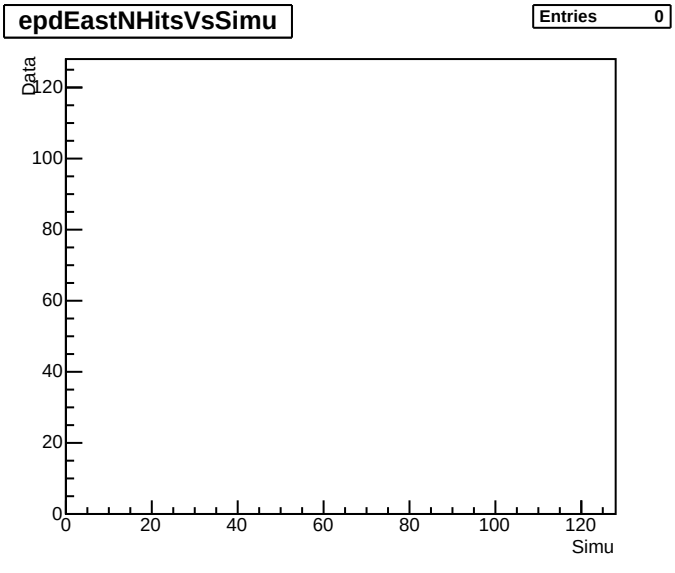
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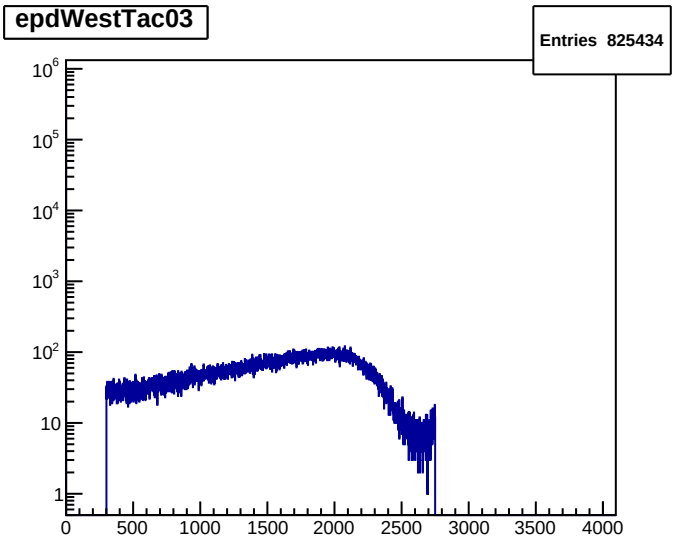
Entries 0
Data
Simu


epdWestTac03
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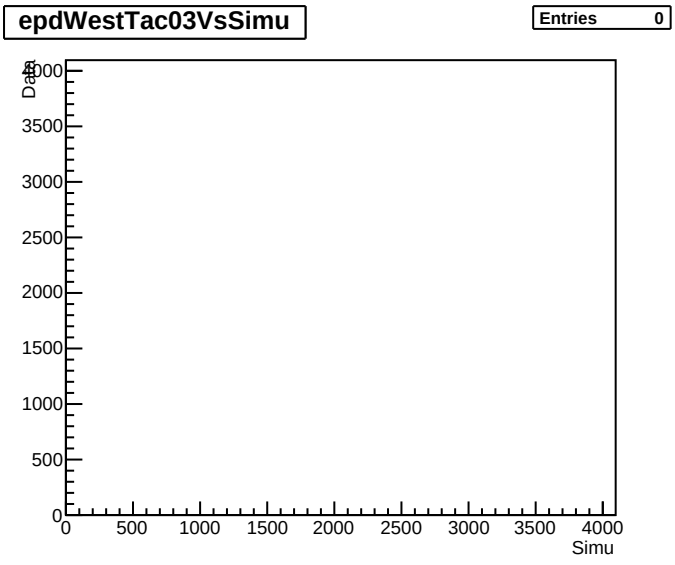
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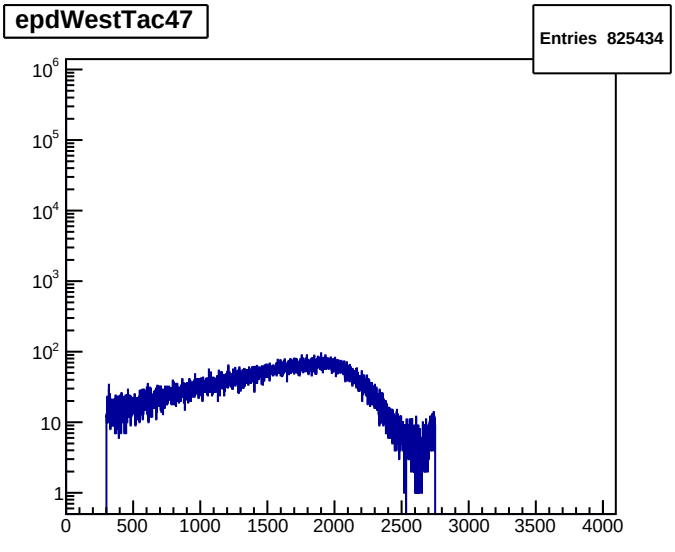
Simu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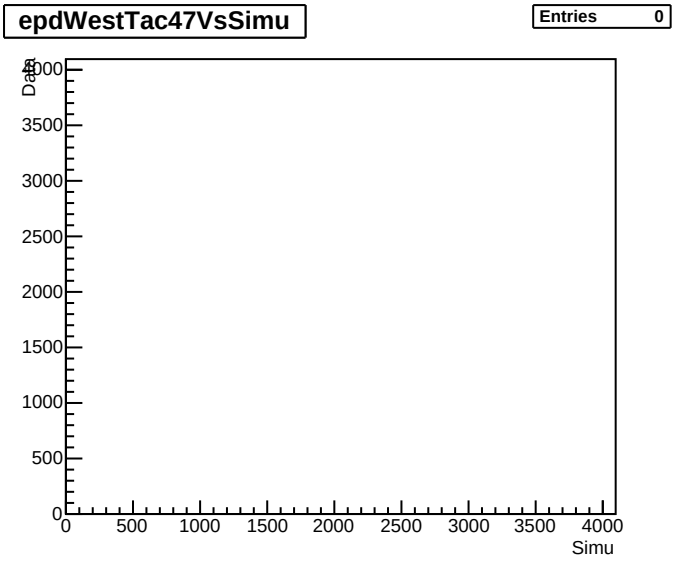
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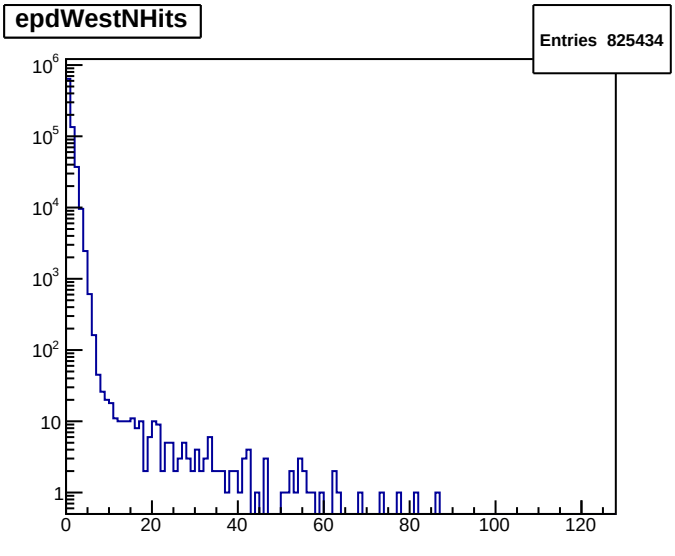
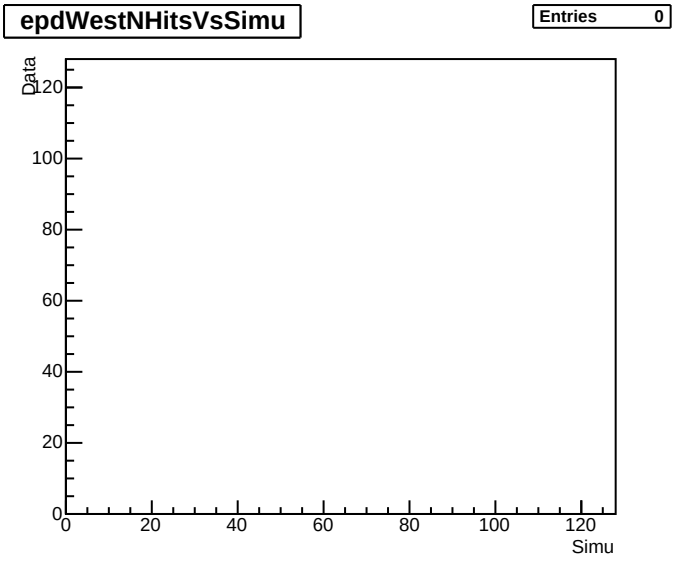
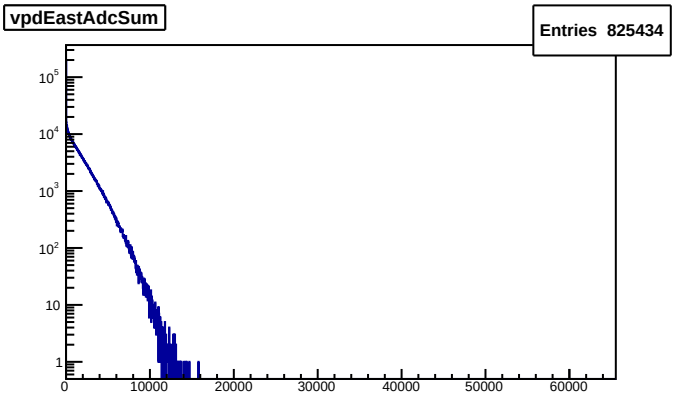
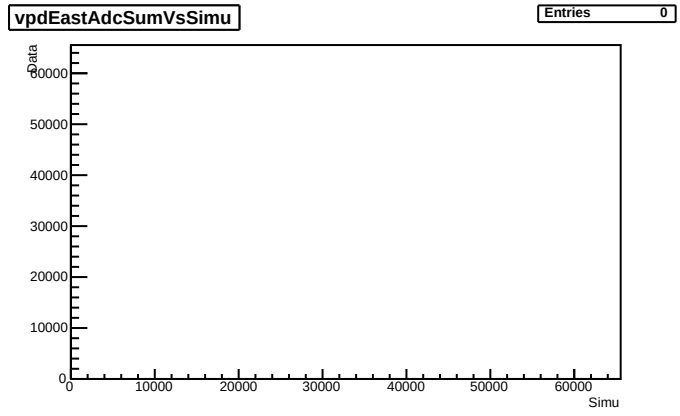
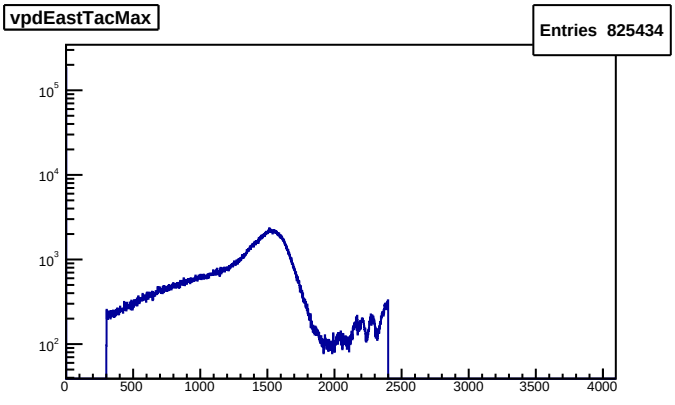
Entries 0
Data
Simu

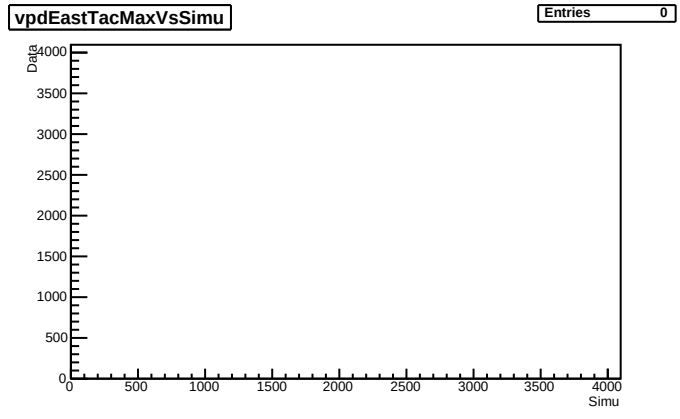

epdWestNHits
Entries 825434

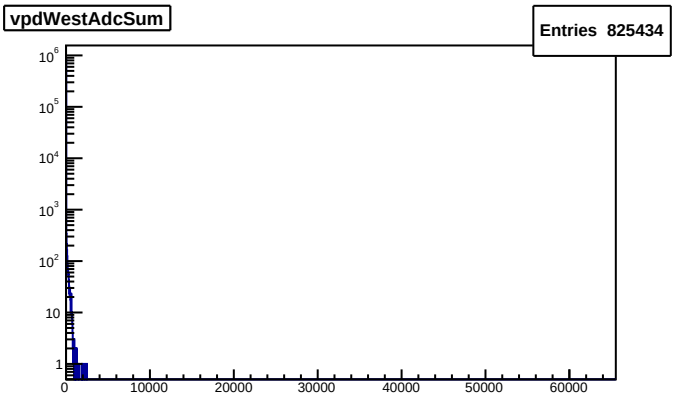

epdWestNHitsVsSimu
Entries 0
Data
Simu

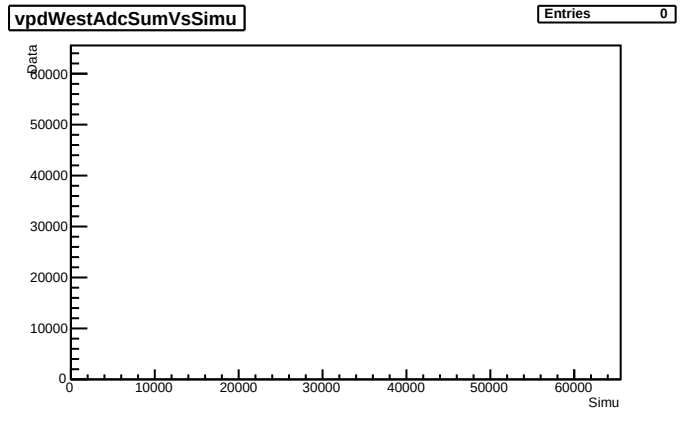

vpdEastAdcSum
Entries 825434

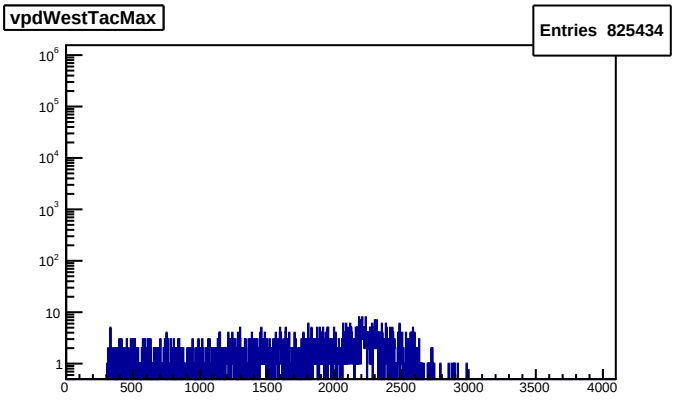

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

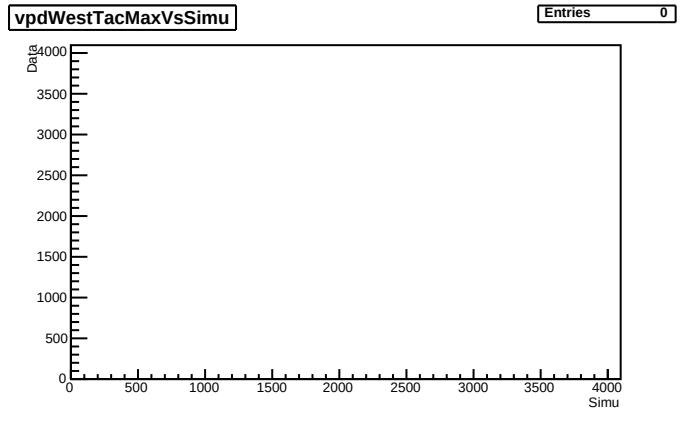

vpdEastTacMax
Entries 825434

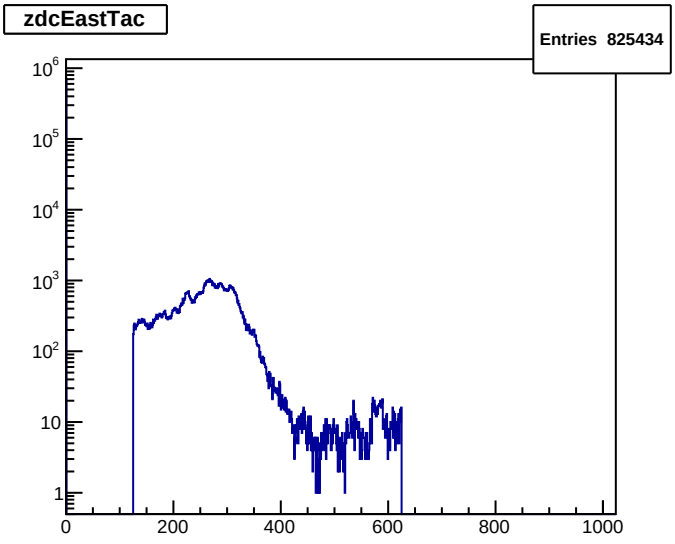

vpdEastTacMaxVsSimu
Entries 0
Data
Simu

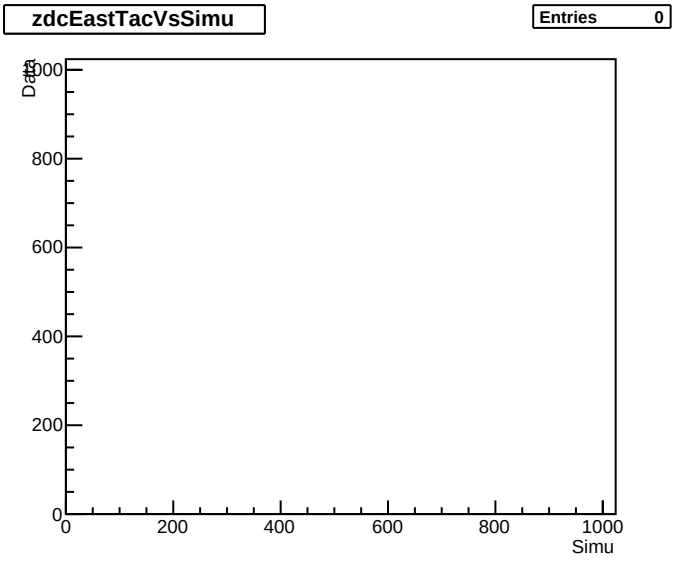

vpdWestAdcSum
Entries 825434

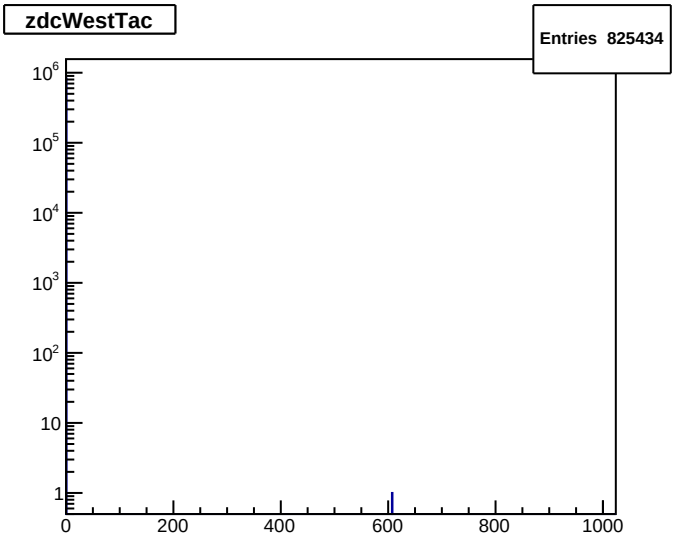

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

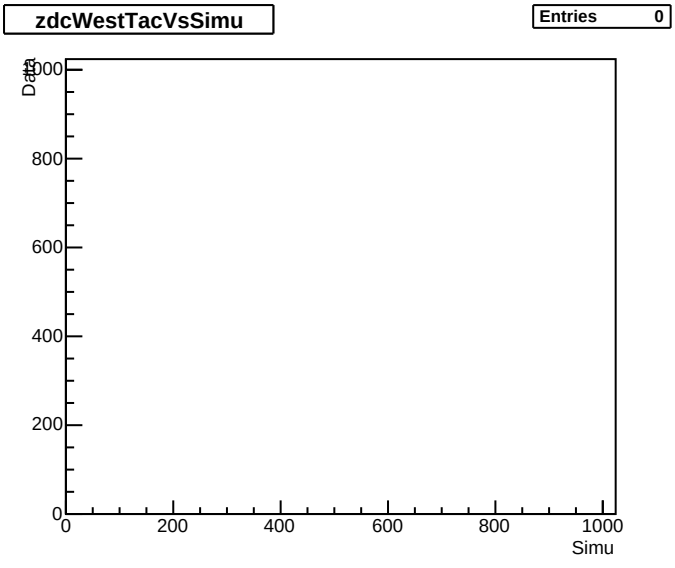

vpdWestTacMax
Entries 825434

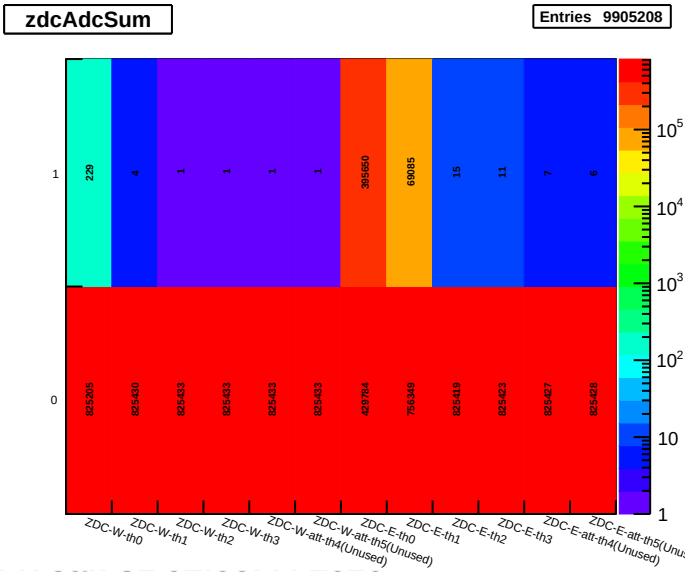

vpdWestTacMaxVsSimu
Entries 0
Data
Simu


zdcEastTac
Entries 825434


zdcEastTacVsSimu
Entries 0
Data
Simu


zdcWestTac
Entries 825434


zdcWestTacVsSimu
Entries 0
Data
Simu


zdcAdcSum
Entries 9905208
229
4
1
1
1
1
395660
69085
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11
7
6
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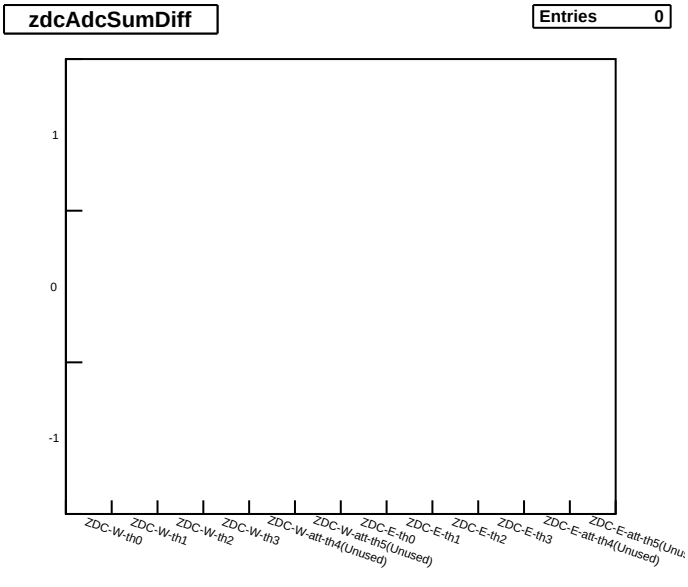
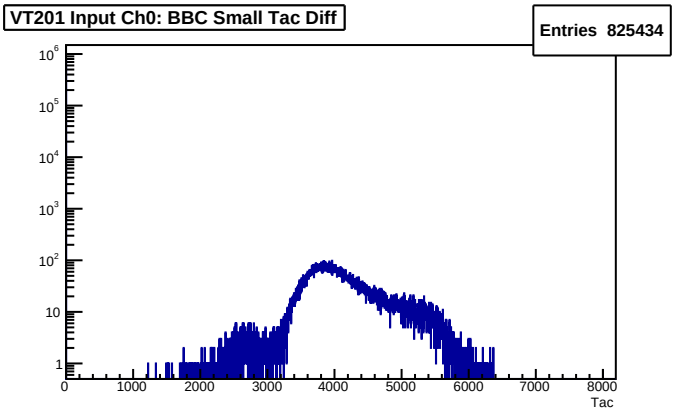
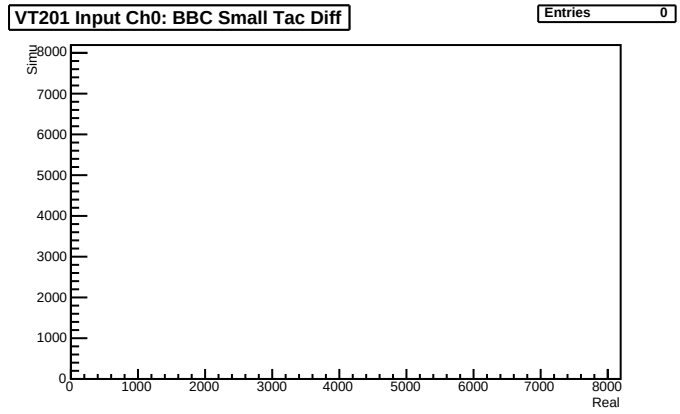
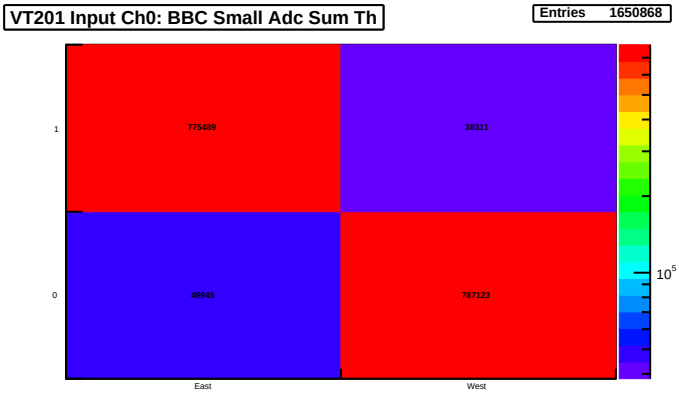
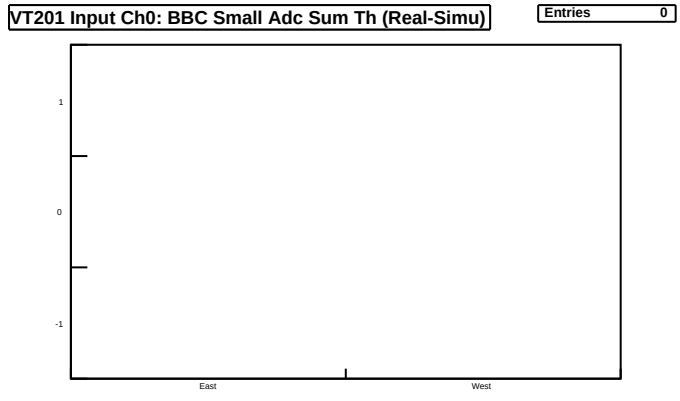
825433
429784
756349
825419
825423
825427
825428
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

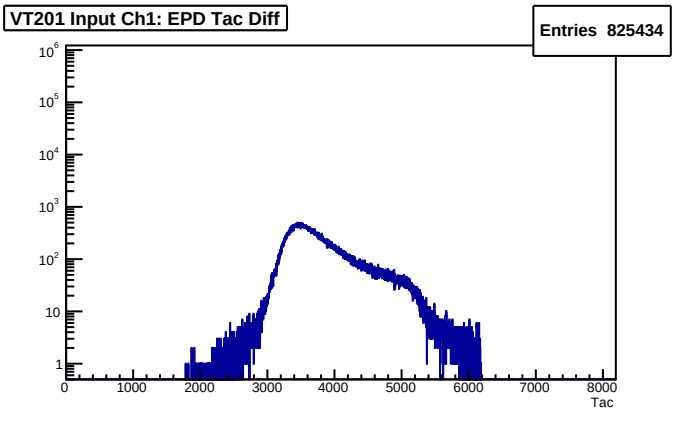

zdcAdcSumDiff
Entries 0
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

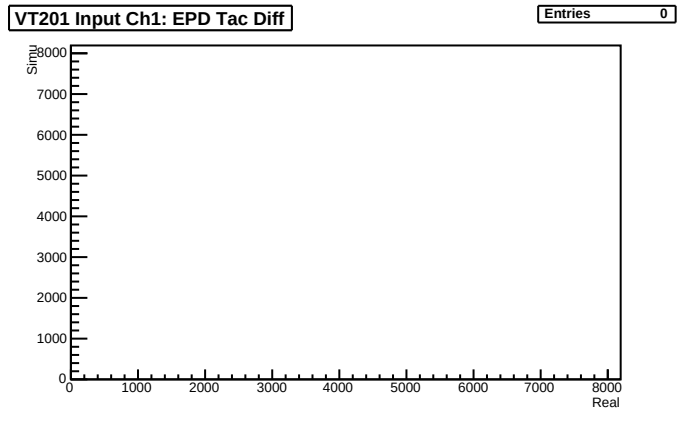

VT201 Input Ch0: BBC Small Tac Diff
Entries 825434
Tac

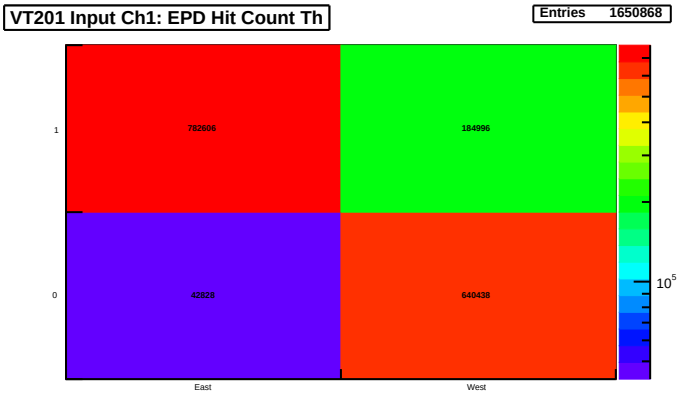

VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
Real

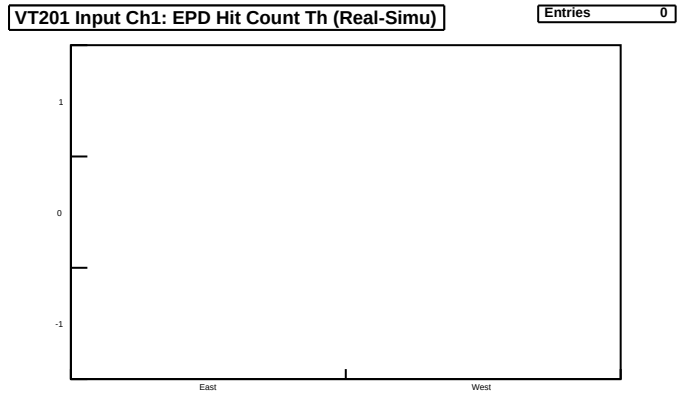

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1650868
775489
38311
49945
787123
East
West

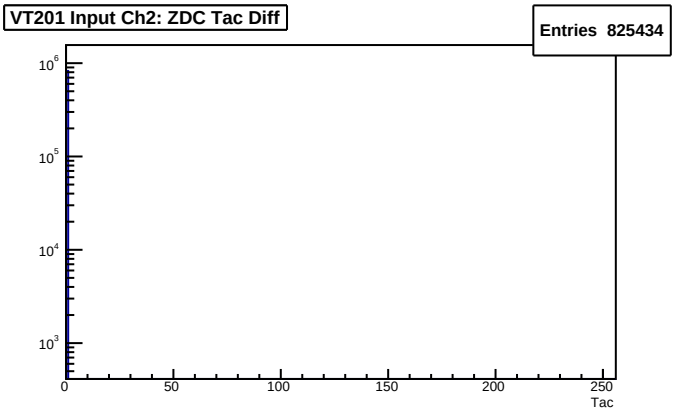

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
East
West

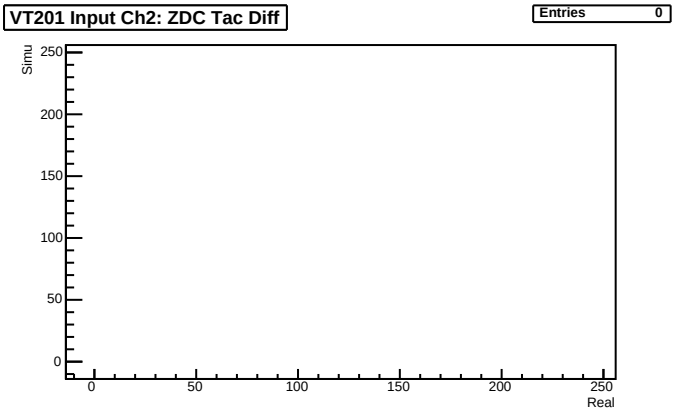

VT201 Input Ch1: EPD Tac Diff
Entries 825434
Tac

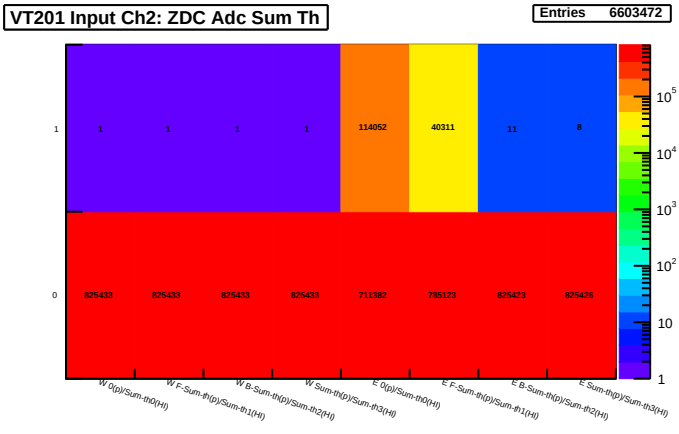

VT201 Input Ch1: EPD Tac Diff
Entries 0
Simu
Real

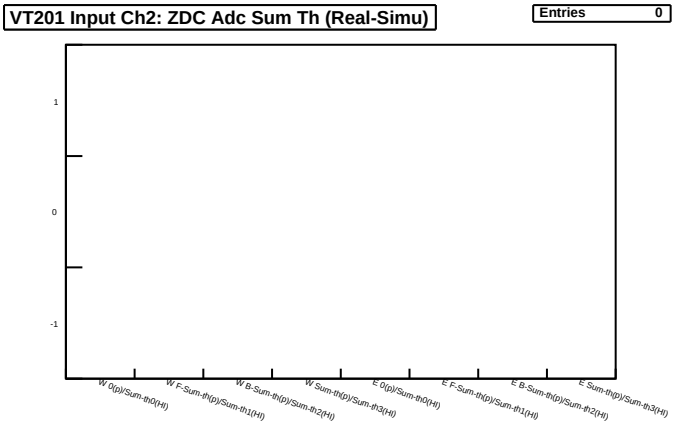

VT201 Input Ch1: EPD Hit Count Th
Entries 1650868
782606
184996
42828
640438
East
West

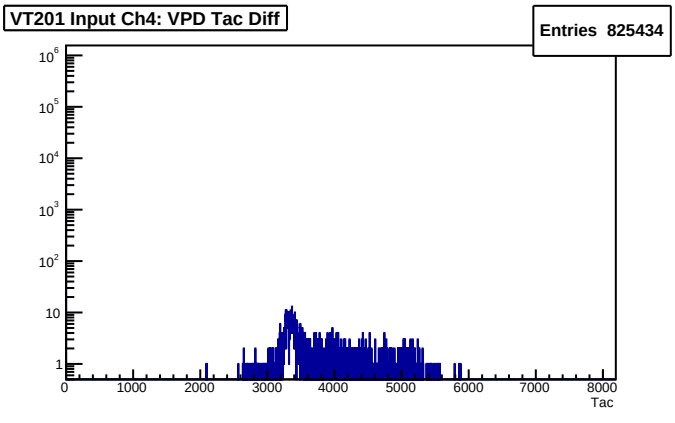

VT201 Input Ch1: EPD Hit Count Th (Real-Simu)
Entries 0
East
West

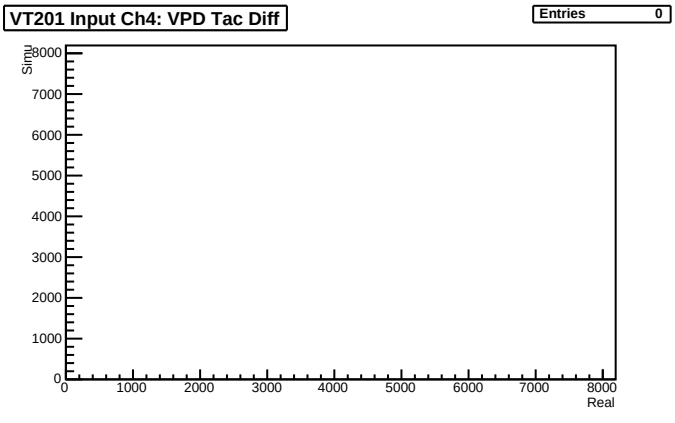

VT201 Input Ch2: ZDC Tac Diff
Entries 825434
Tac

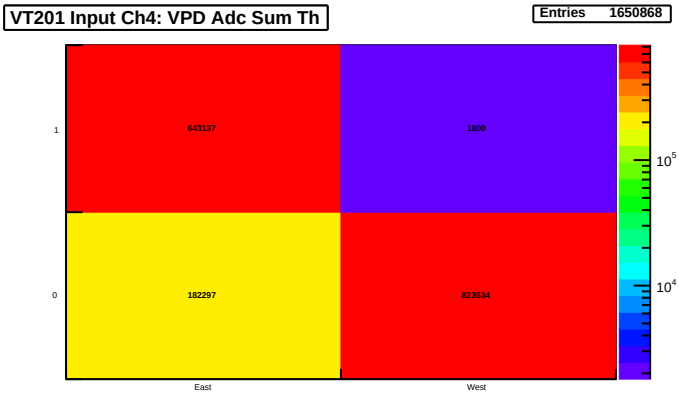

VT201 Input Ch2: ZDC Tac Diff
Entries 0
Simu
Real

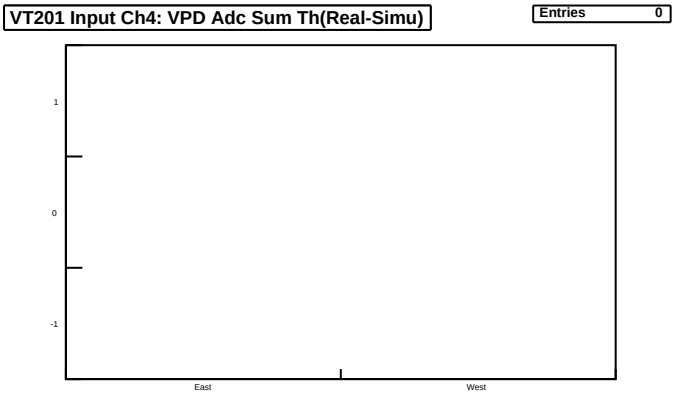

VT201 Input Ch2: ZDC Adc Sum Th
Entries 6603472
1 1 1 1 114052 40311 11 8
825433 825433 825433 825433 711382 785123 825423 825426
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

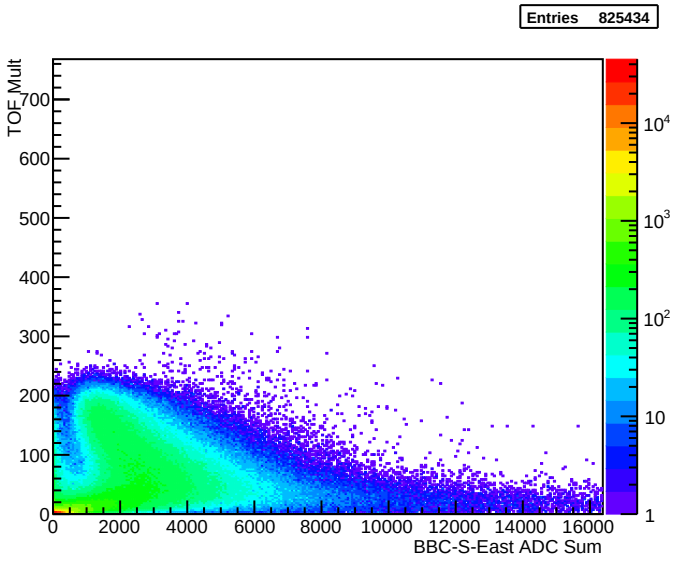

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 0
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

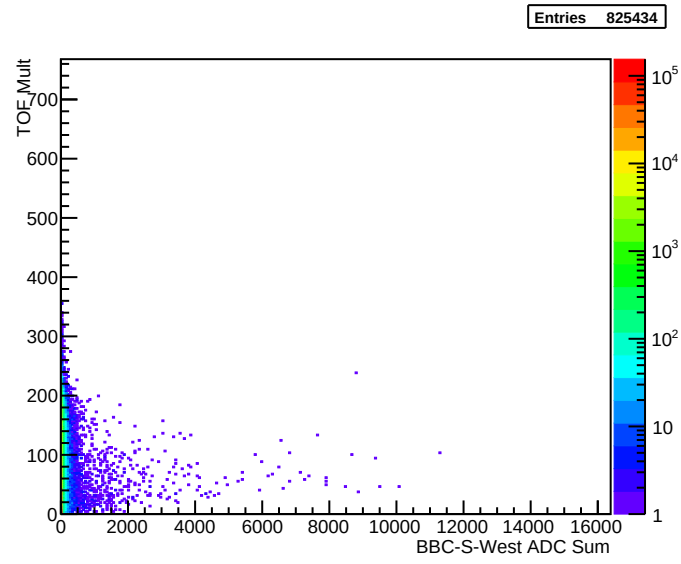

VT201 Input Ch4: VPD Tac Diff
Entries 825434
Tac

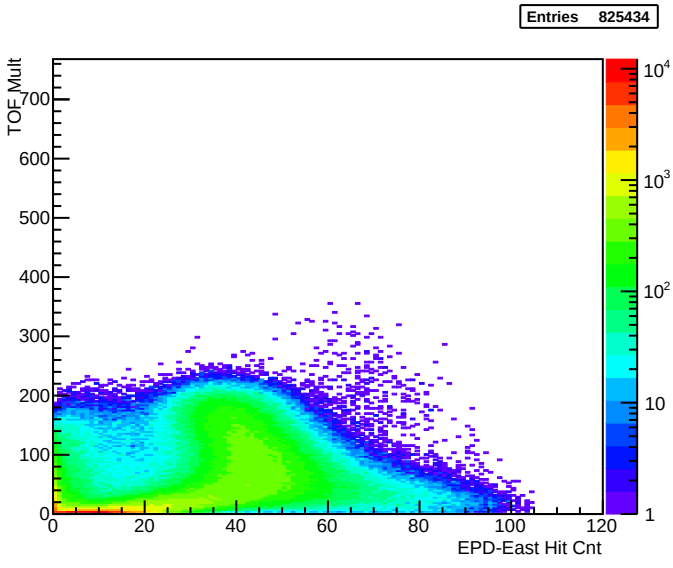

VT201 Input Ch4: VPD Tac Diff
Entries 0
Simu
Real

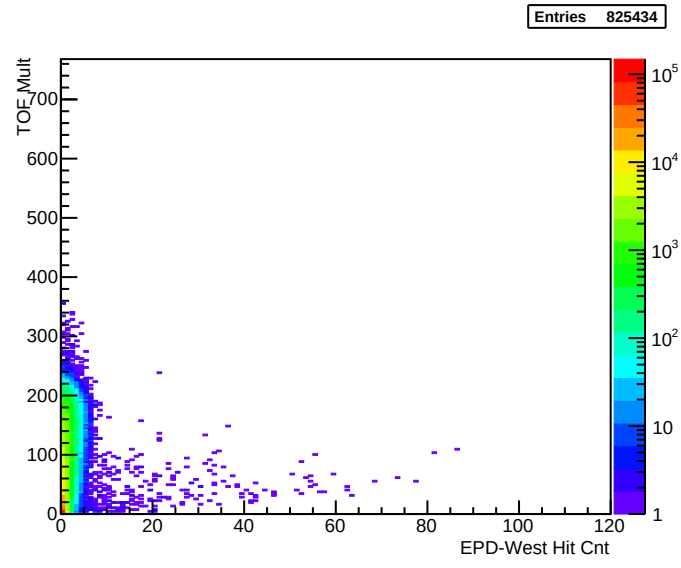

VT201 Input Ch4: VPD Adc Sum Th
Entries 1650868
643137 1800
182297 823634
East
West

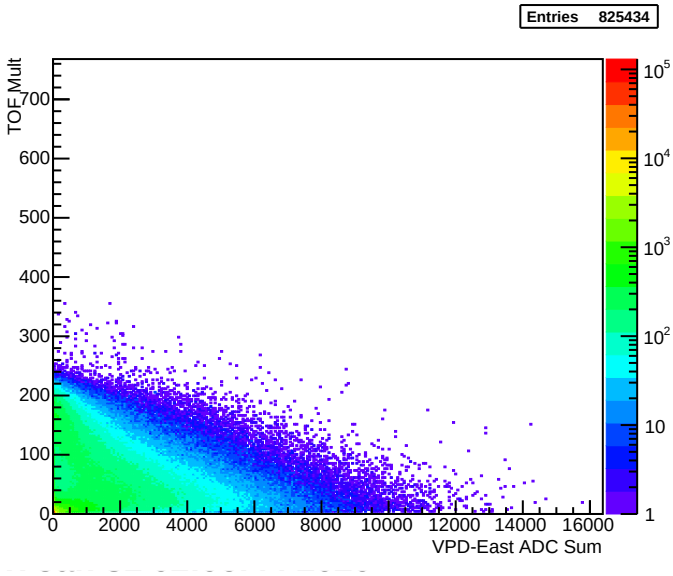

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 0
East
West

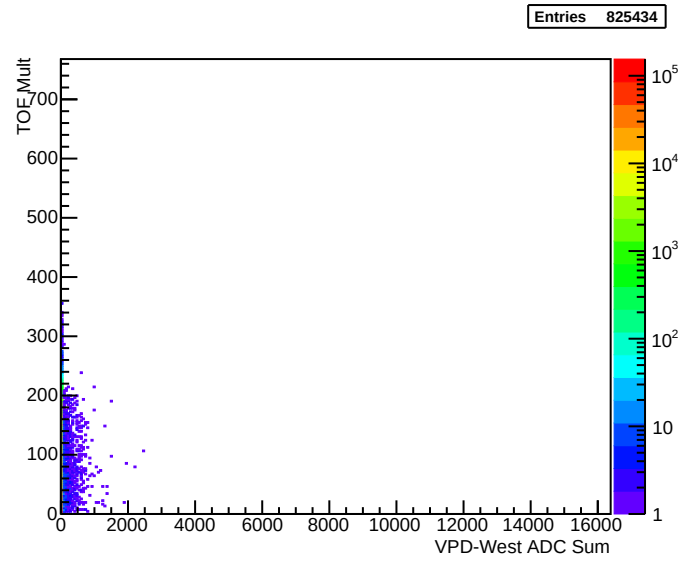

Entries 825434
TOF_Mult
BBC-S-East ADC Sum

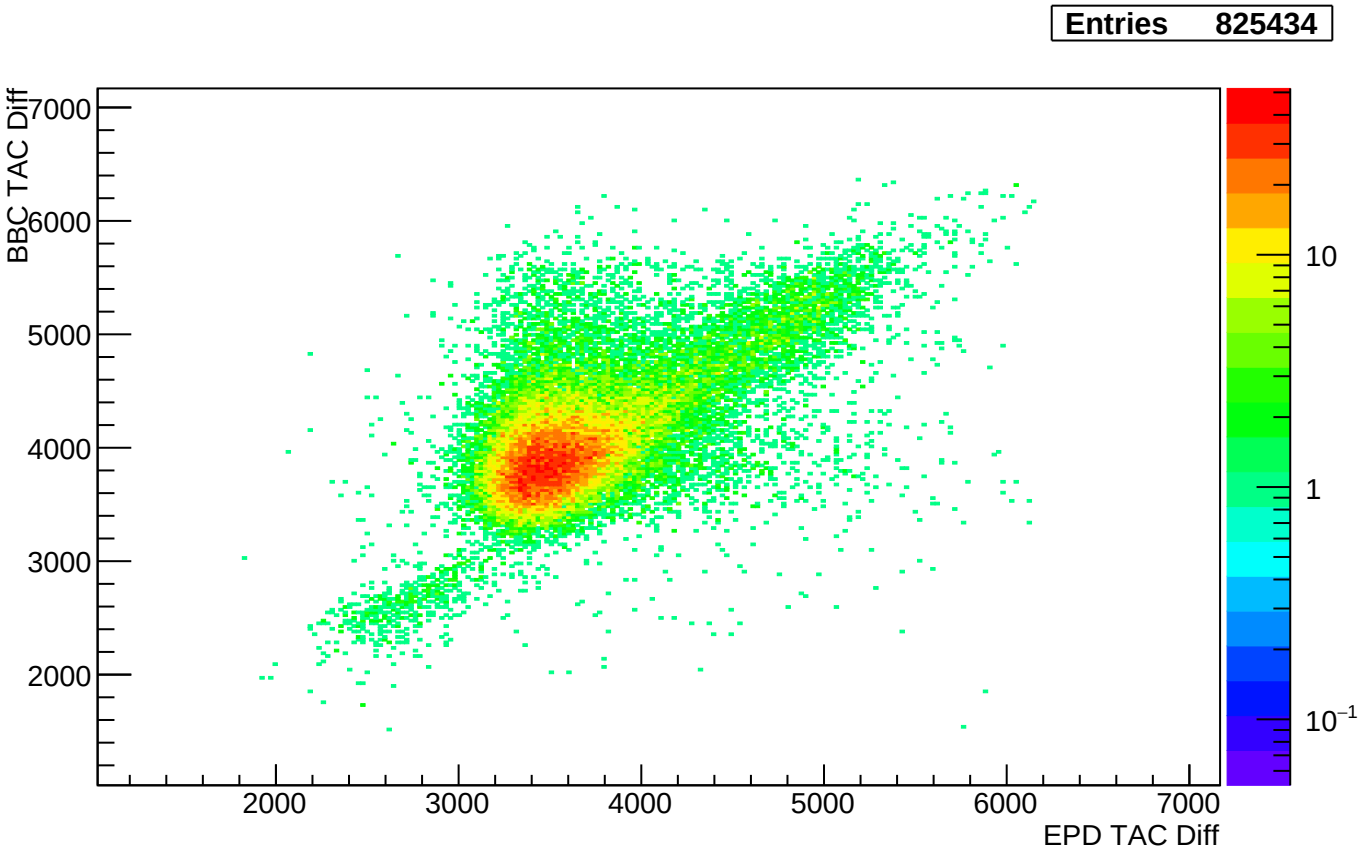

Entries 825434
TOF_Mult
BBC-S-West ADC Sum

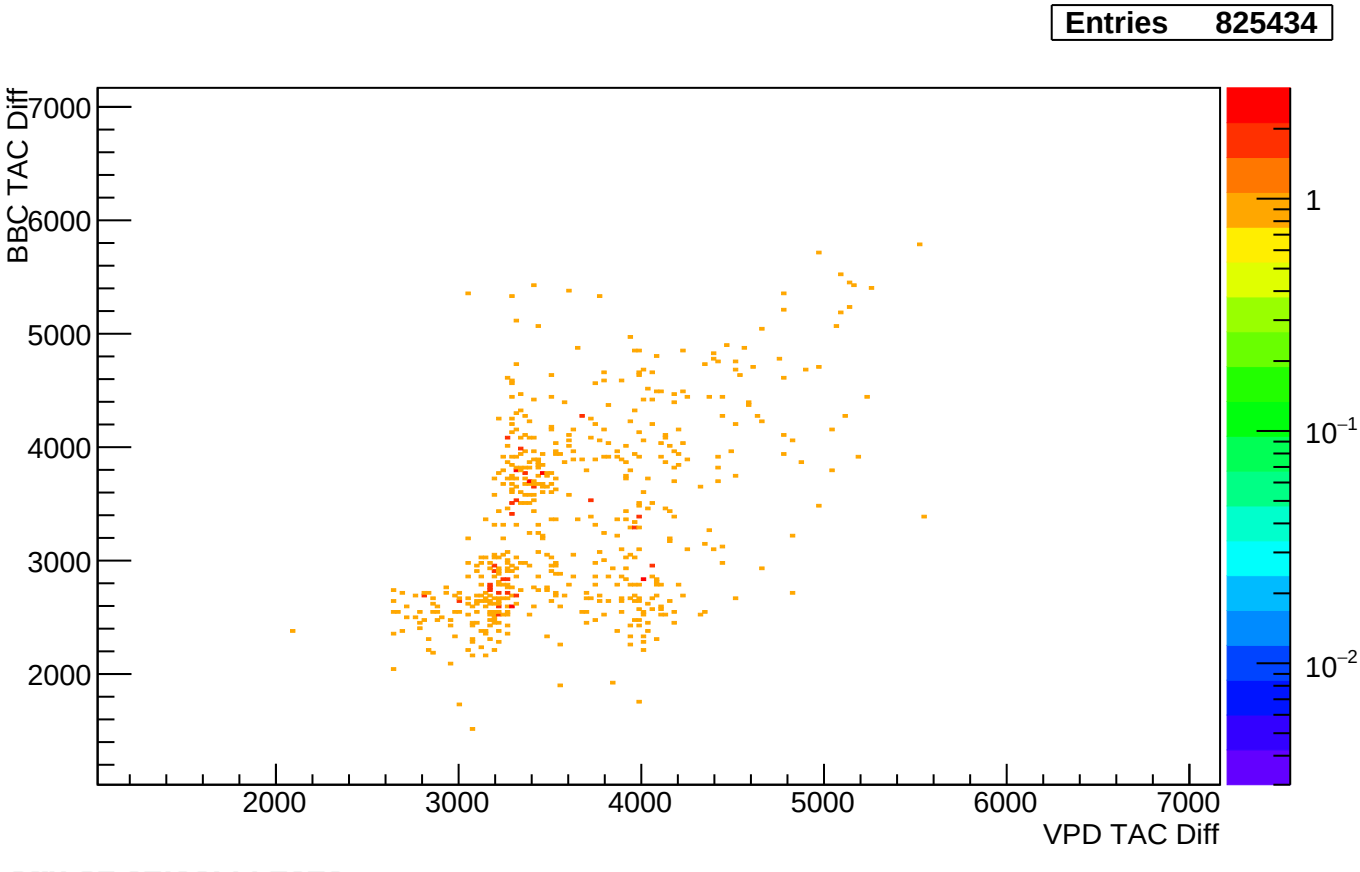

Entries 825434
TOF_Mult
EPD-East Hit Cnt

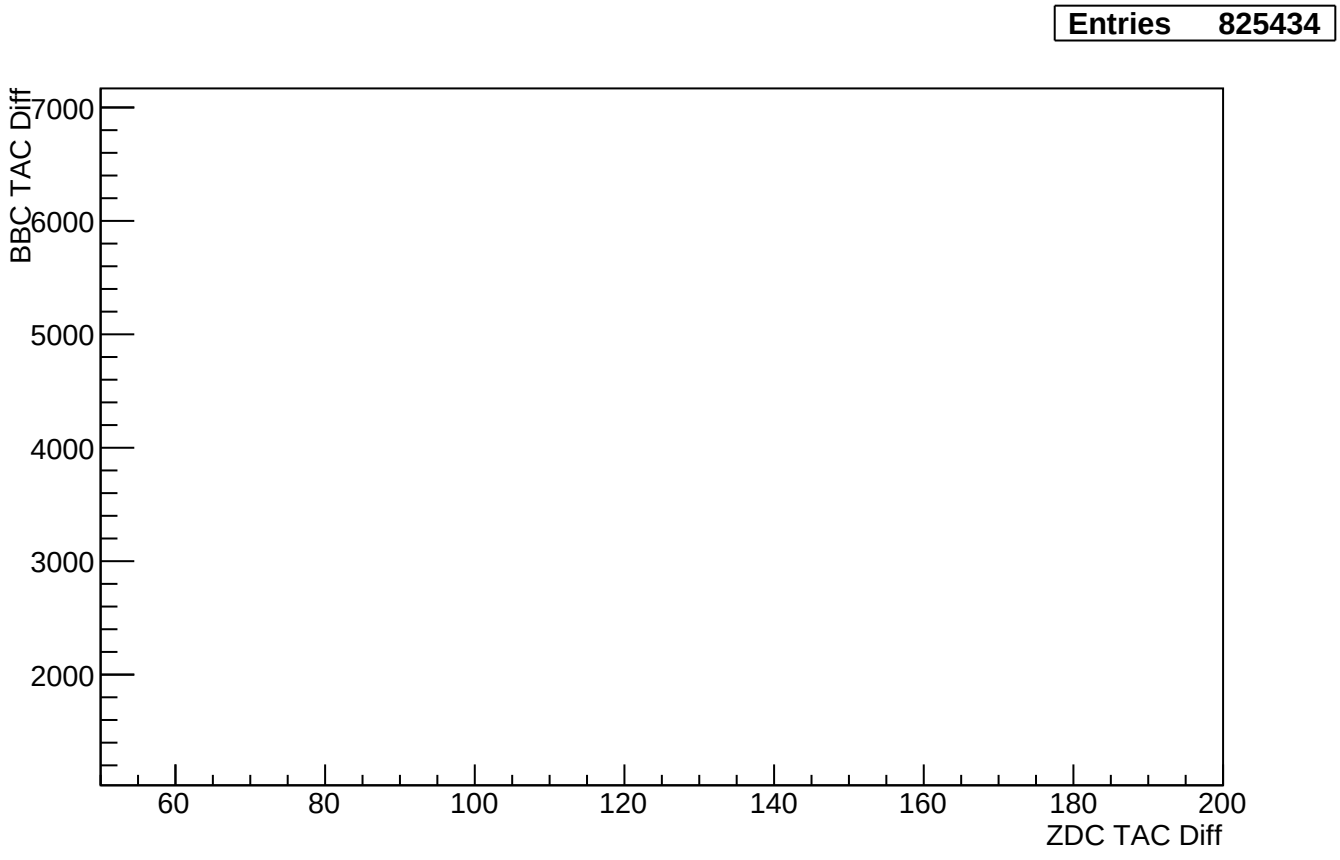

Entries 825434
TOF_Mult
EPD-West Hit Cnt

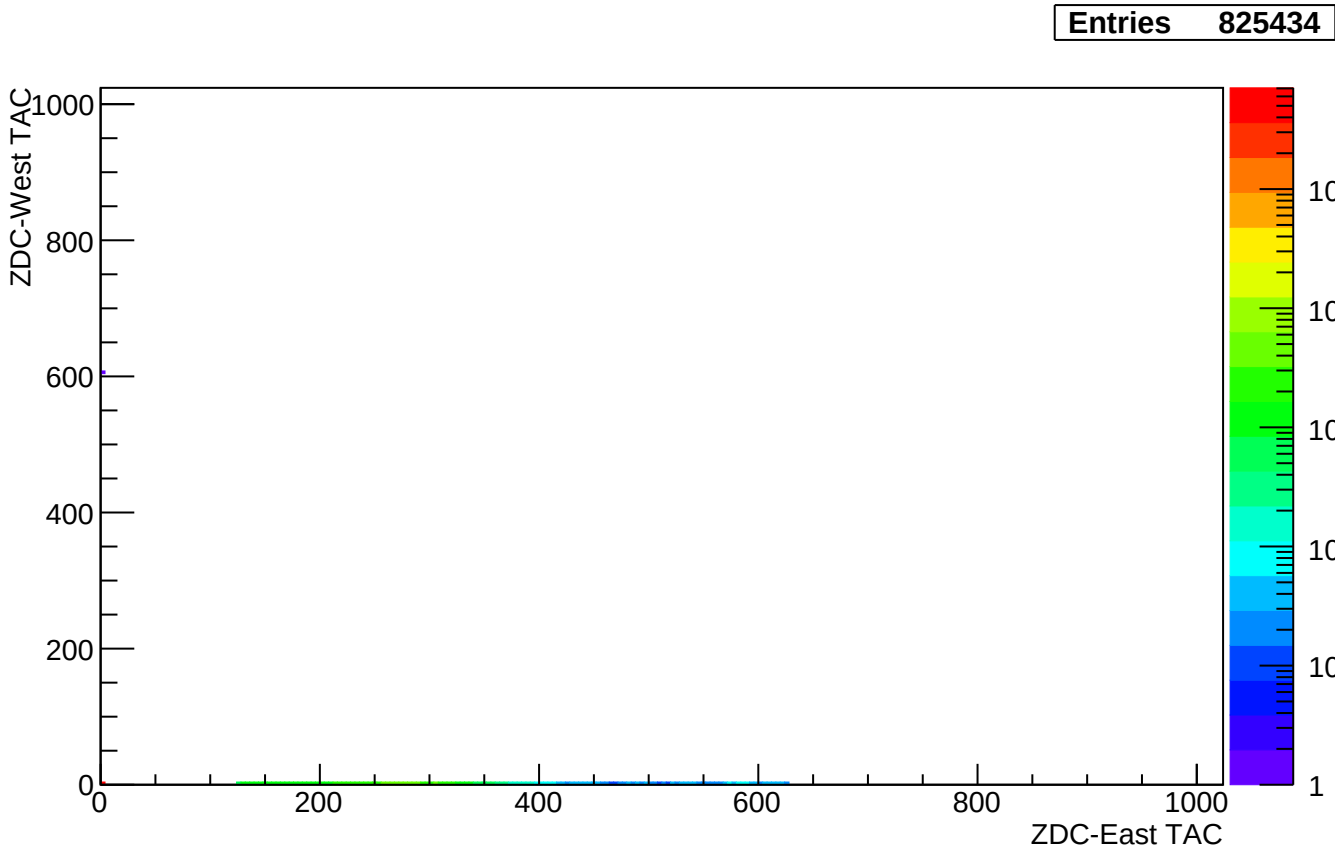

Entries 825434
TOF_Mult
VPD-East ADC Sum

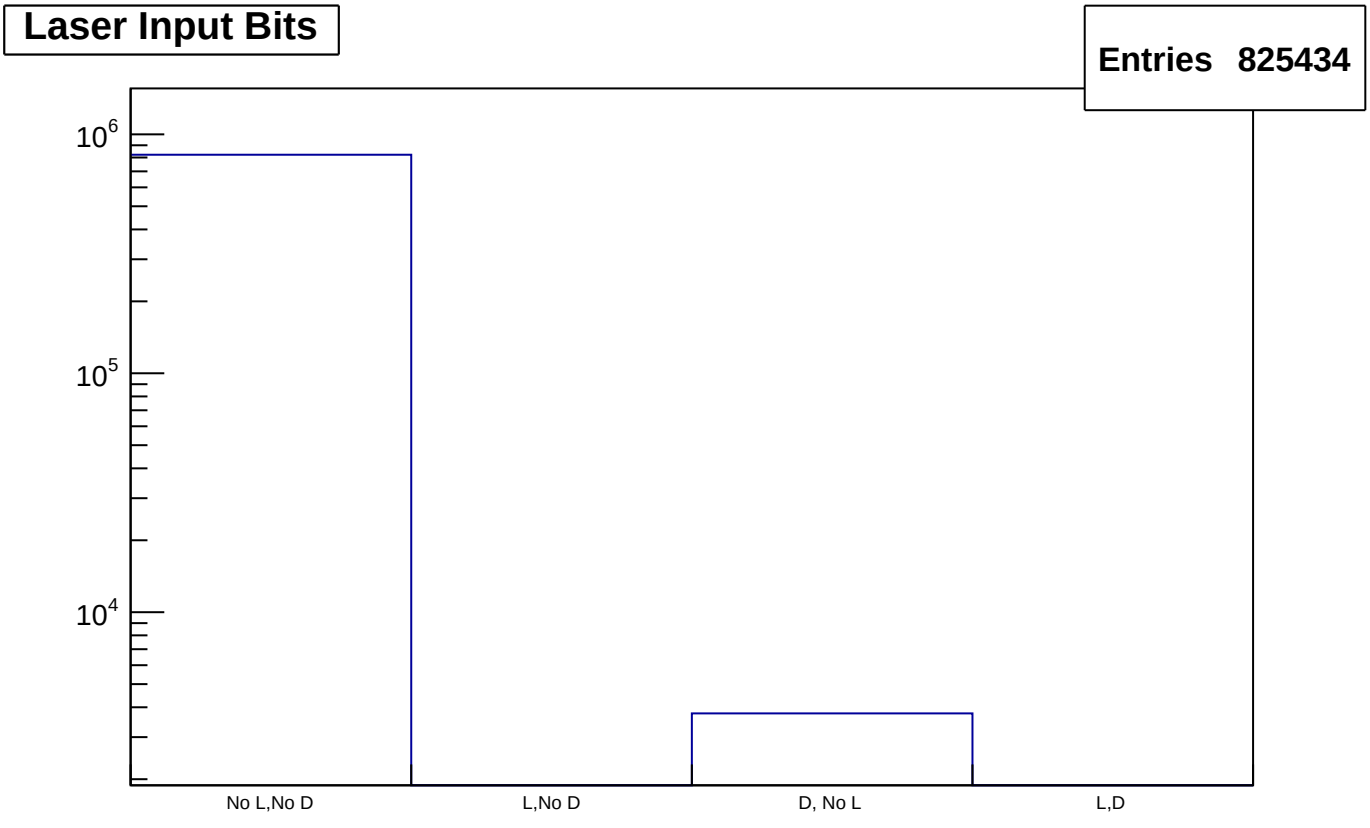

Entries 825434
TOF_Mult
VPD-West ADC Sum

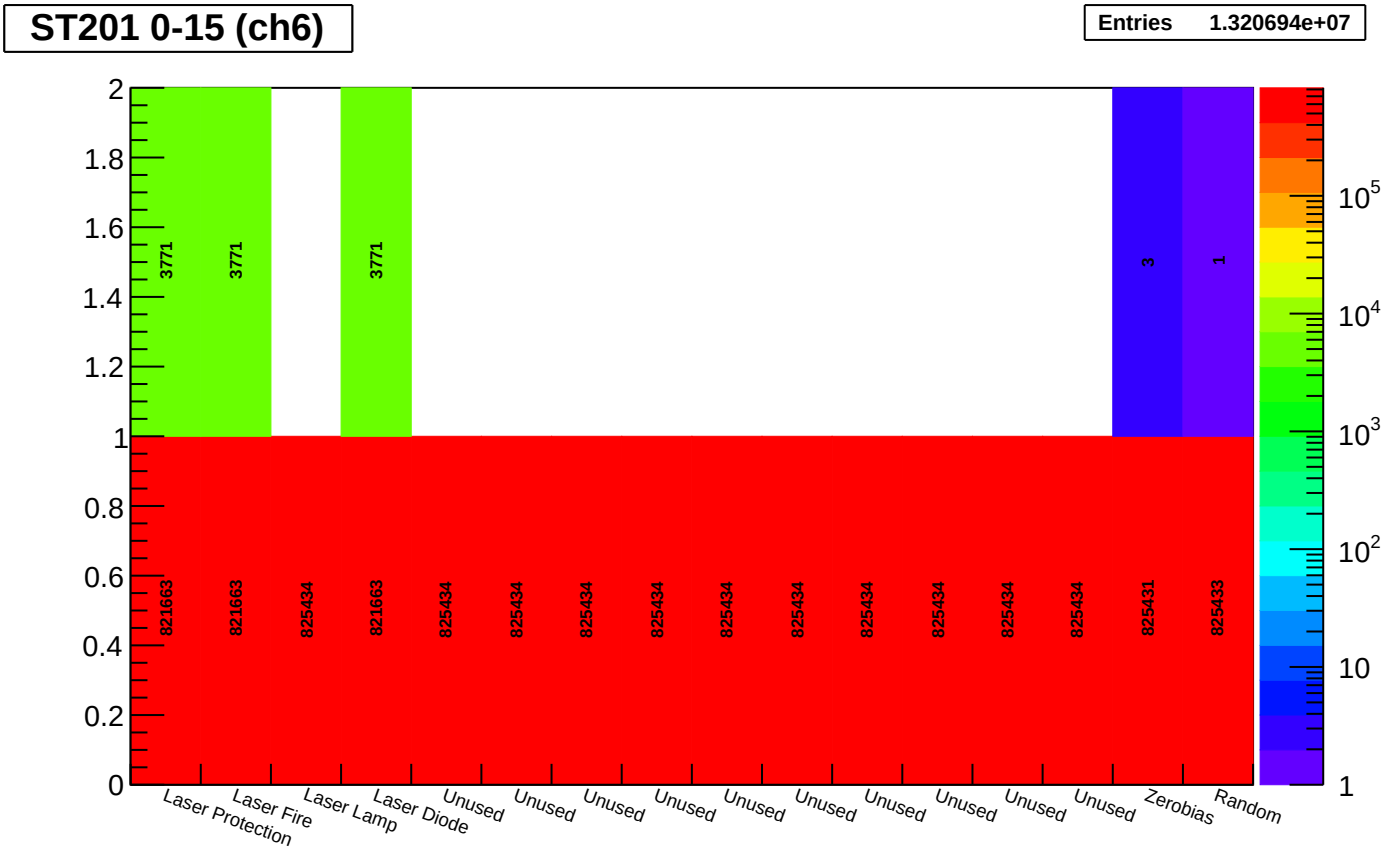

Entries 825434
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
EPD TAC Diff
10
1
10^{-1}

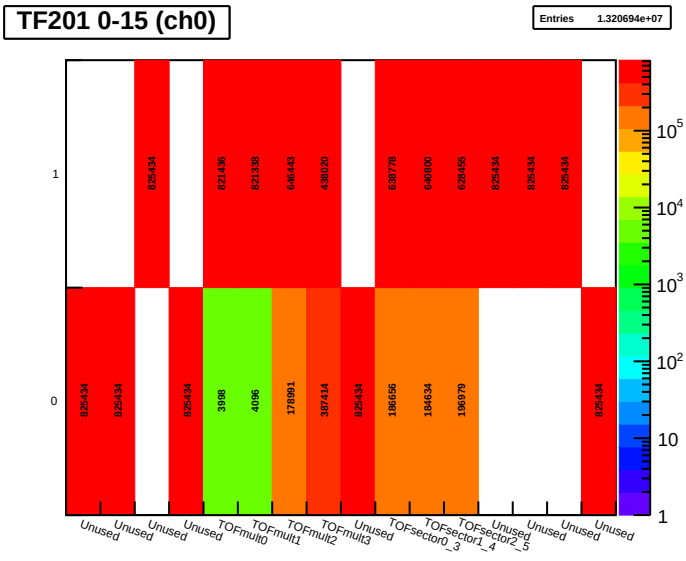

Entries 825434
BBC TAC Diff
7000
6000
5000
4000
3000
2000
2000
3000
4000
5000
6000
7000
VPD TAC Diff
1
10^{-1}
10^{-2}

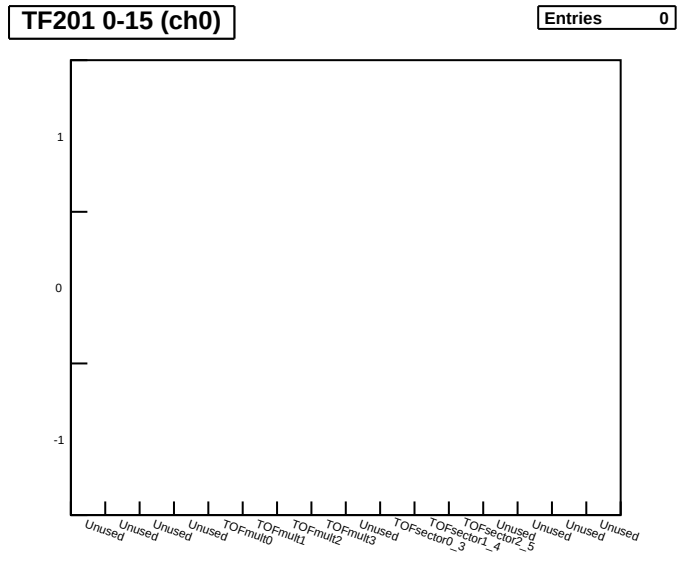

Entries 825434
BBC TAC Diff
7000
6000
5000
4000
3000
2000
60
80
100
120
140
160
180
200
ZDC TAC Diff

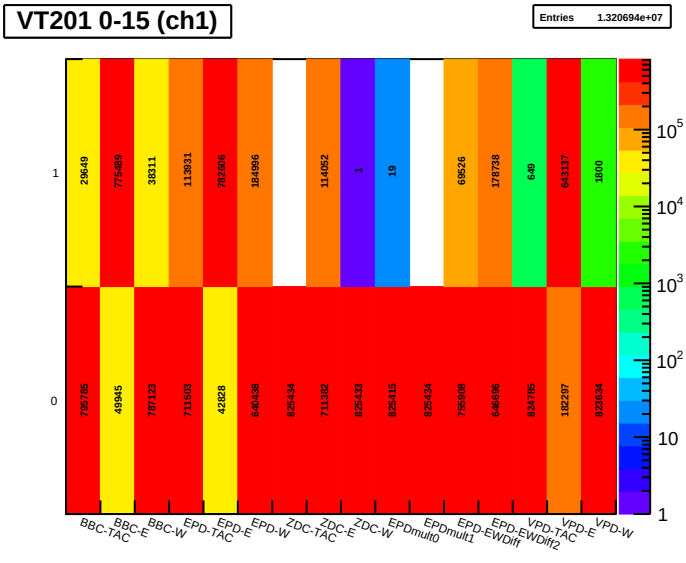

Entries 825434
ZDC-West TAC
1000
800
600
400
200
0
0
200
400
600
800
1000
ZDC-East TAC
10^5
10^4
10^3
10^2
10
1

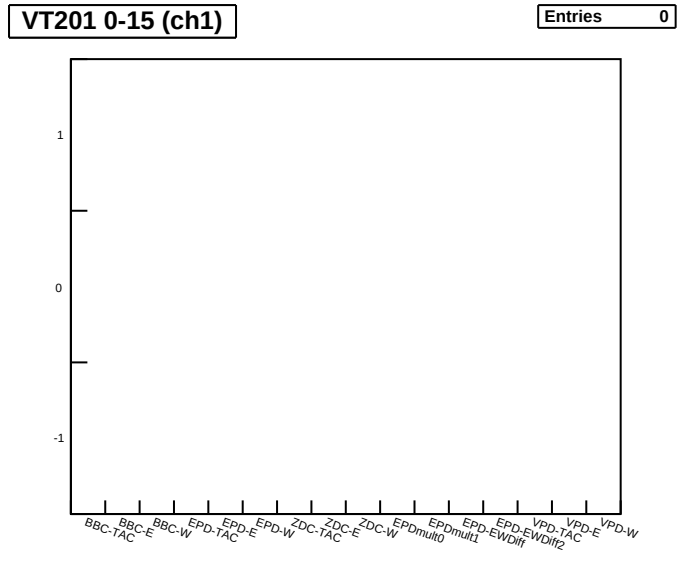

Laser Input Bits
Entries 825434
10^6
10^5
10^4
No L,No D
L,No D
D, No L
L,D

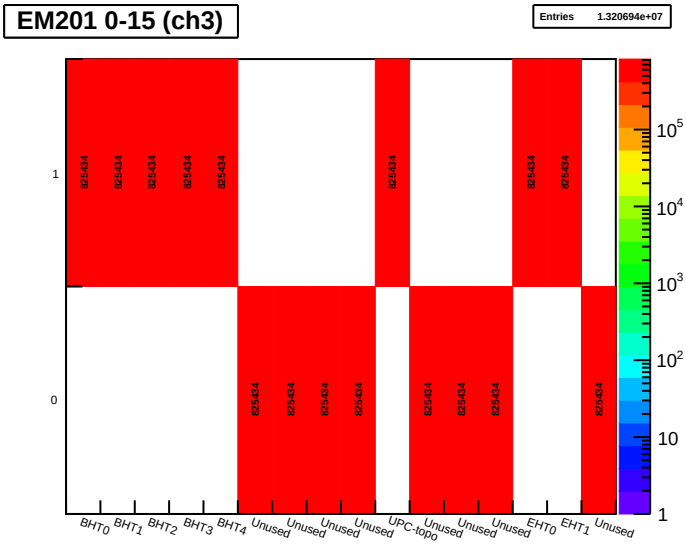

ST201 0-15 (ch6)
Entries 1.320694e+07
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
3771
3771
3771
3
1
821663
821663
825434
821663
825434
825434
825434
825434
825434
825434
825434
825434
825434
825434
825431
825433
Laser Protection
Laser Fire
Laser Lamp
Laser Diode
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Unused
Zerobias
Random
10^5
10^4
10^3
10^2
10
1

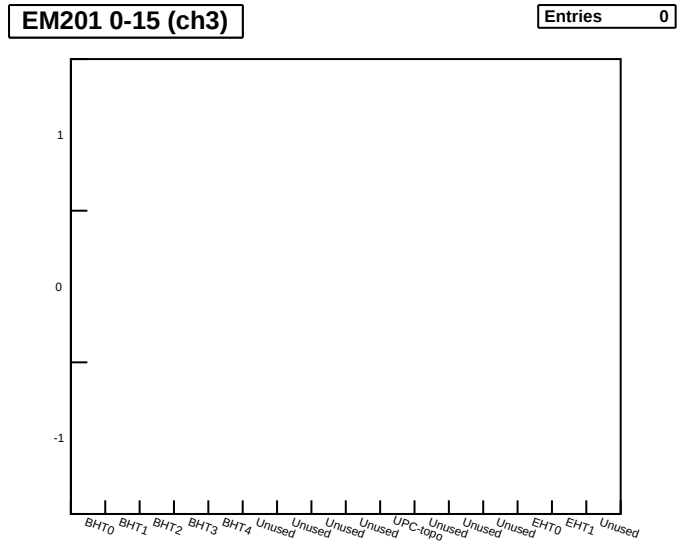

TF201 0-15 (ch0)
Entries 1.320694e+07
825434 821436 821338 646443 438020 638778 640800 628455 825434 825434 825434
825434 825434 825434 3998 4096 178991 387414 825434 186656 184634 196979 825434
Unused Unused Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 Unused TOFsector0_3 TOFsector1_4 TOFsector2_5 Unused Unused Unused Unused


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


VT201 0-15 (ch1)
Entries 1.320694e+07
29649 775489 38311 113931 782606 184996 114052 1 19 69526 178738 649 643137 1800
795785 49945 767123 711503 42828 640438 825434 711382 825433 825415 825434 755908 646696 824785 182297 823634
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


VT201 0-15 (ch1)
Entries 0
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W EPDmult0 EPDmult1 EPD-EWDiff EPD-EWDiff2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 1.320694e+07
825434 825434 825434 825434 825434 825434 825434 825434
825434 825434 825434 825434 825434 825434 825434 825434
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused


EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused