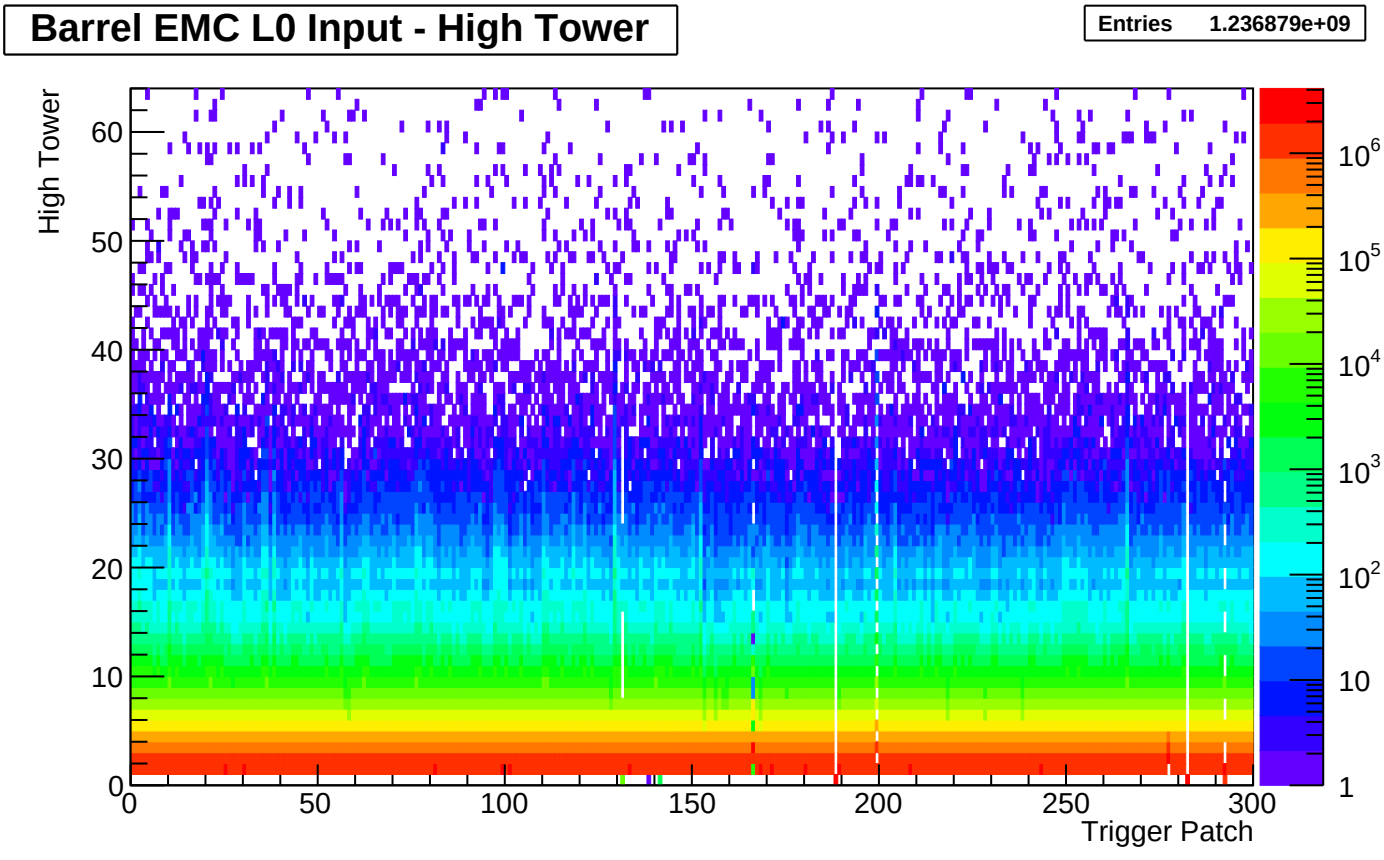
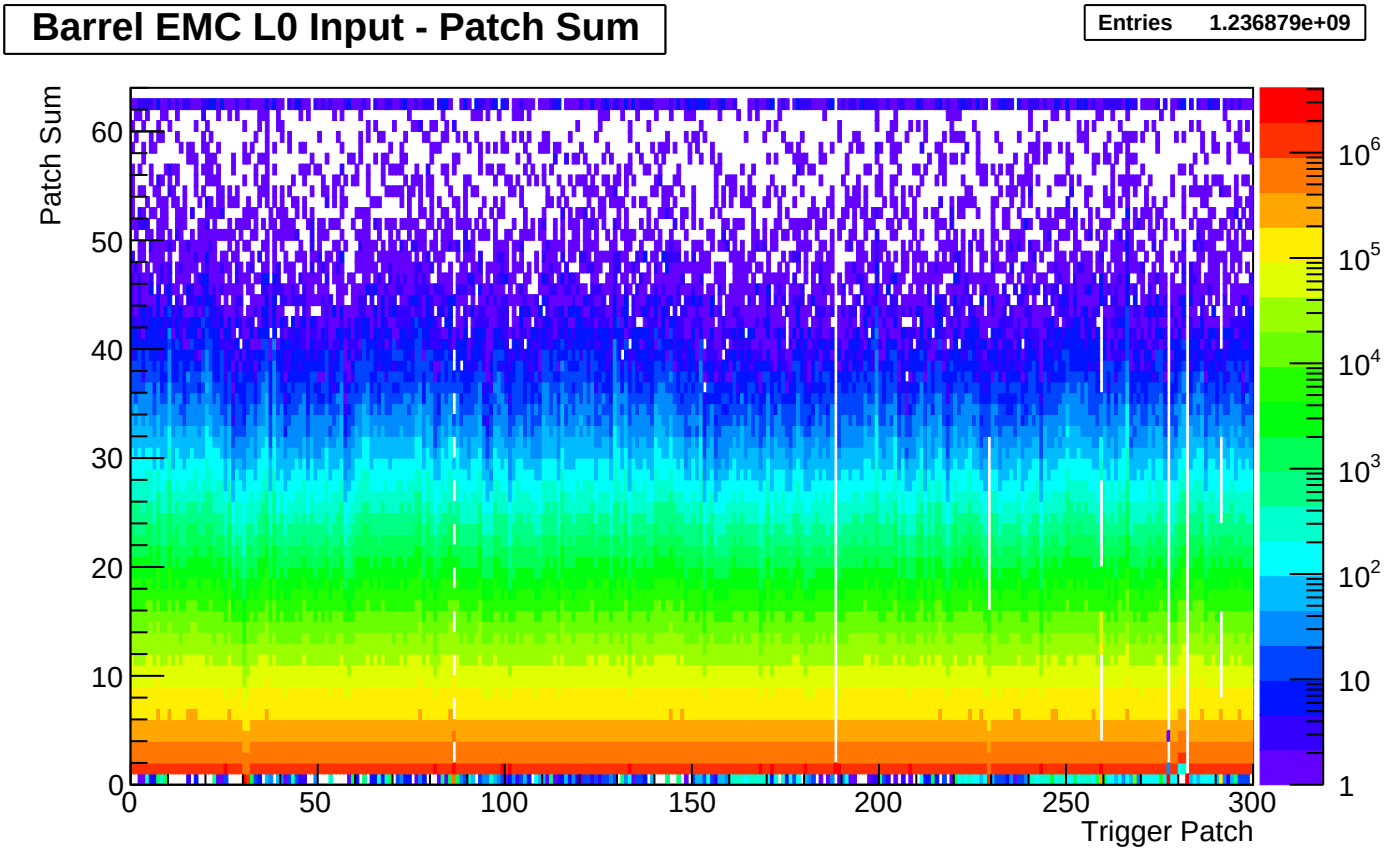
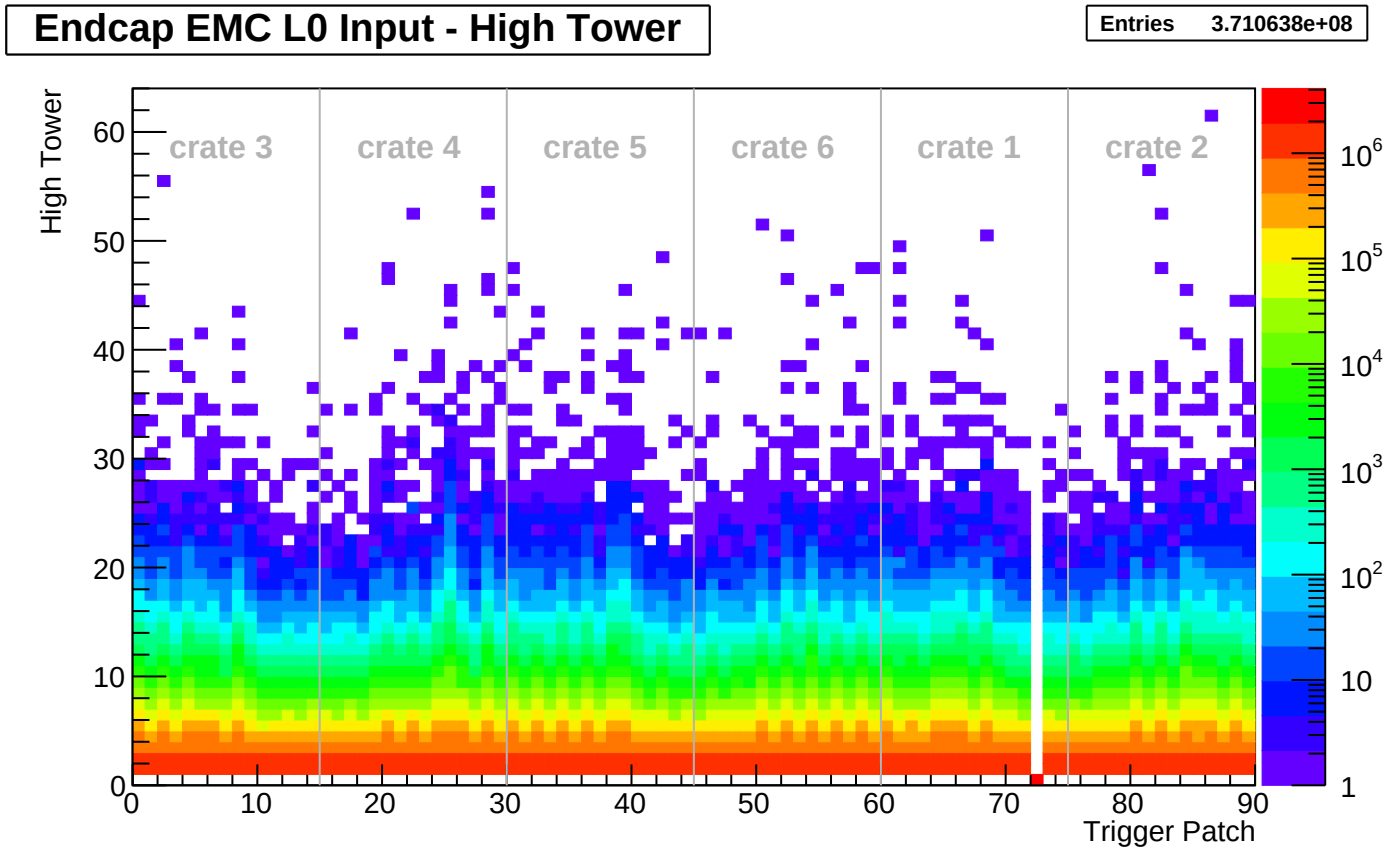
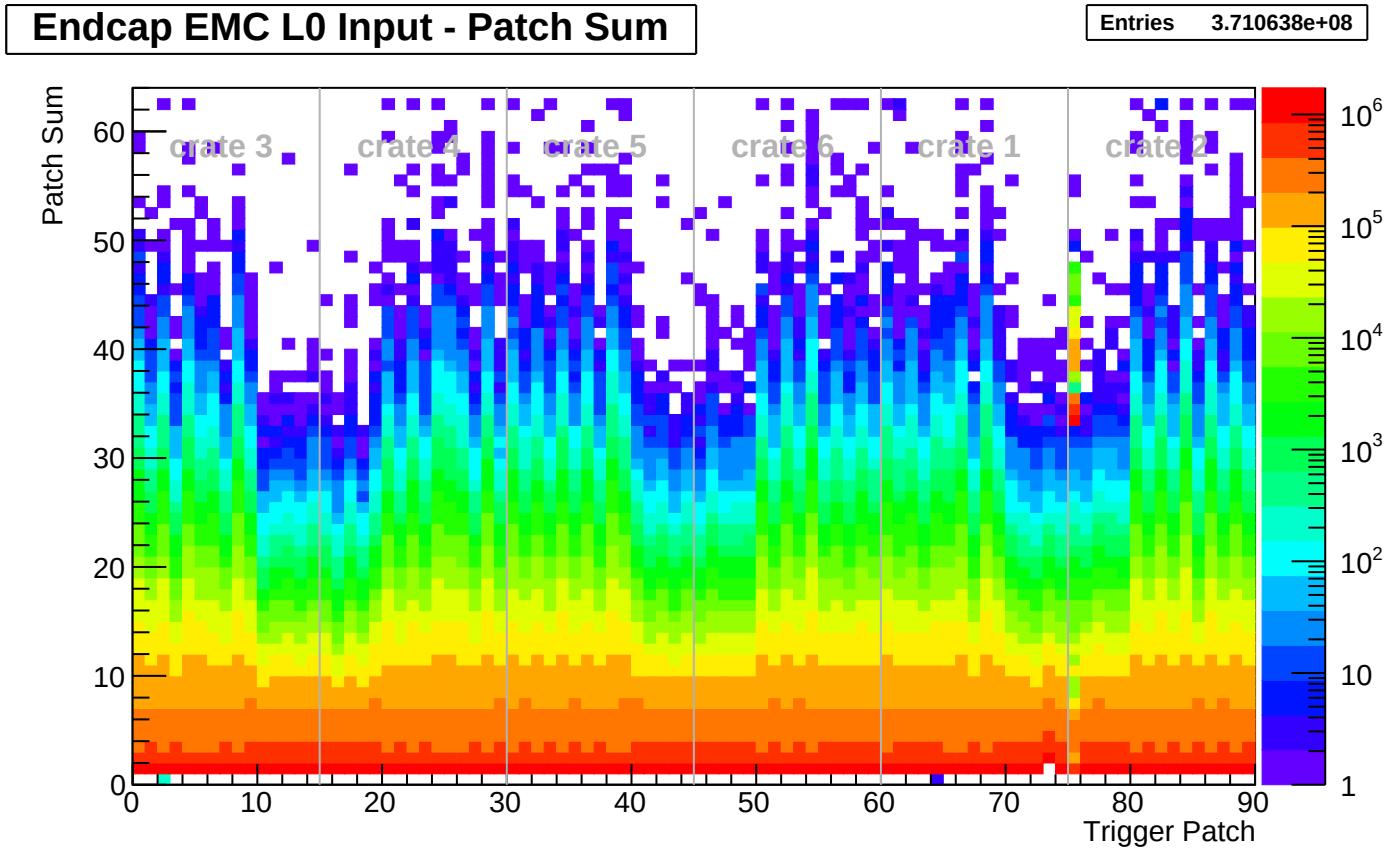
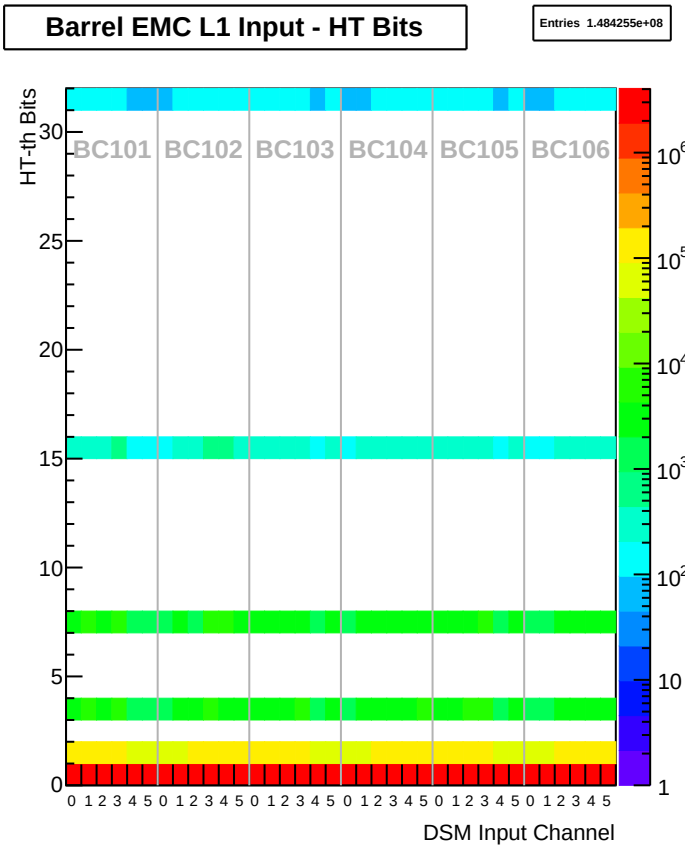
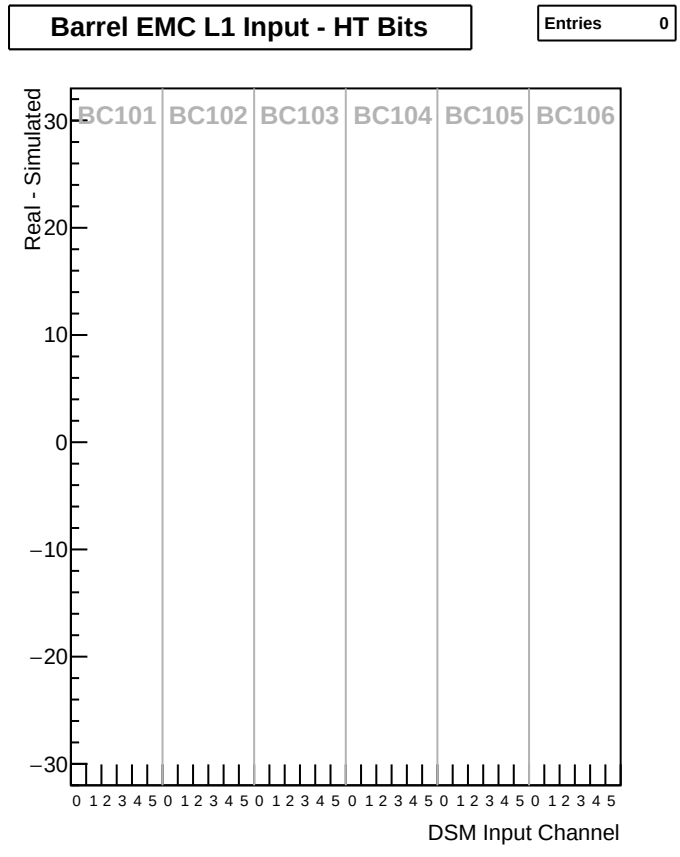

Barrel EMC L0 Input - High Tower
Entries 1.236879e+09
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

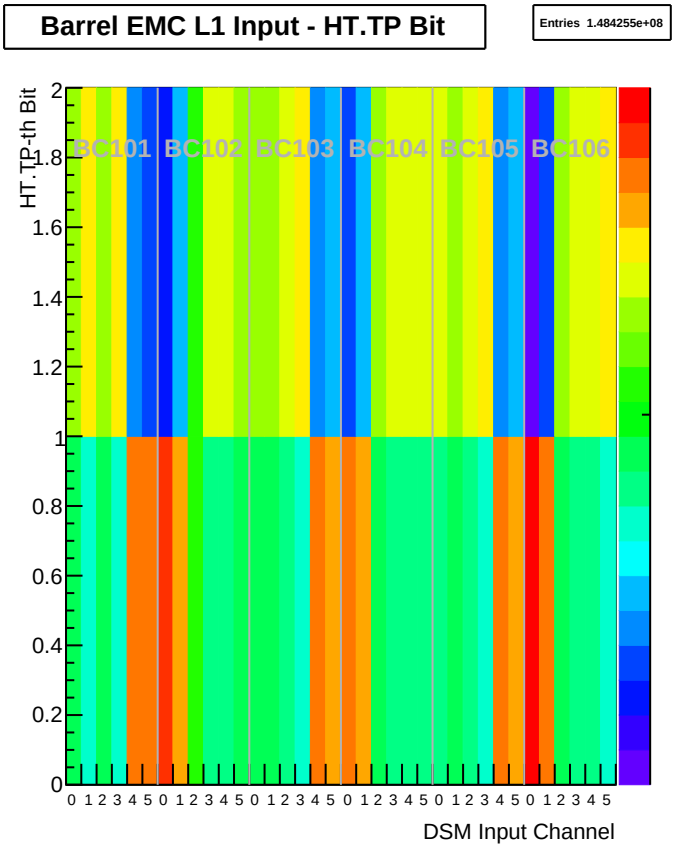

Barrel EMC L0 Input - Patch Sum
Entries 1.236879e+09
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

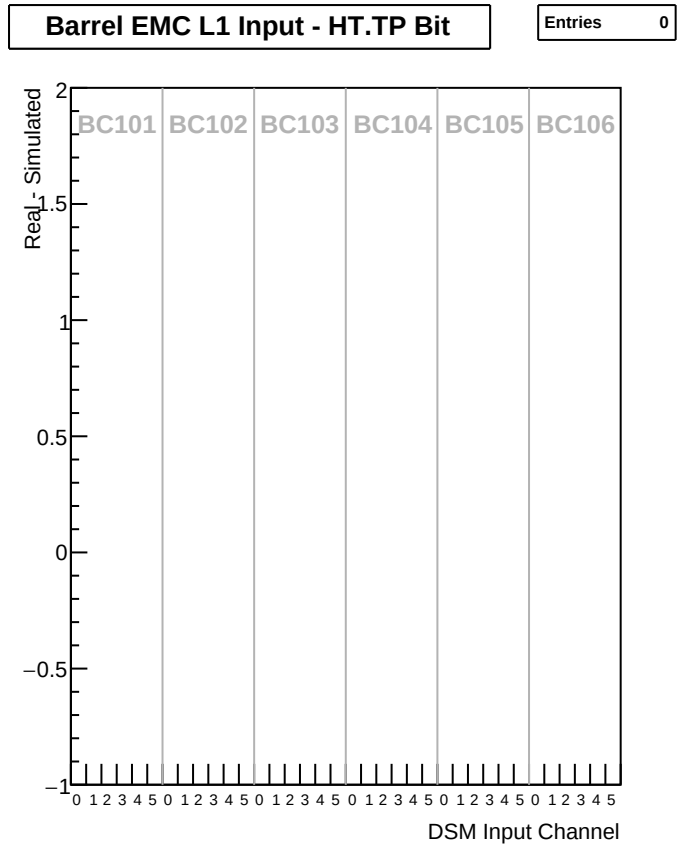

Endcap EMC L0 Input - High Tower
Entries 3.710638e+08
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

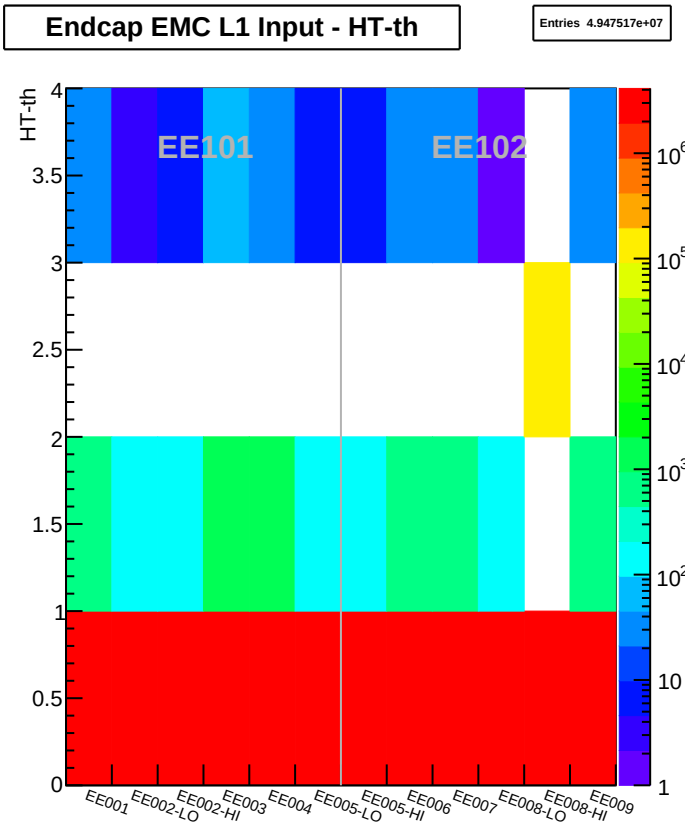

Endcap EMC L0 Input - Patch Sum
Entries 3.710638e+08
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

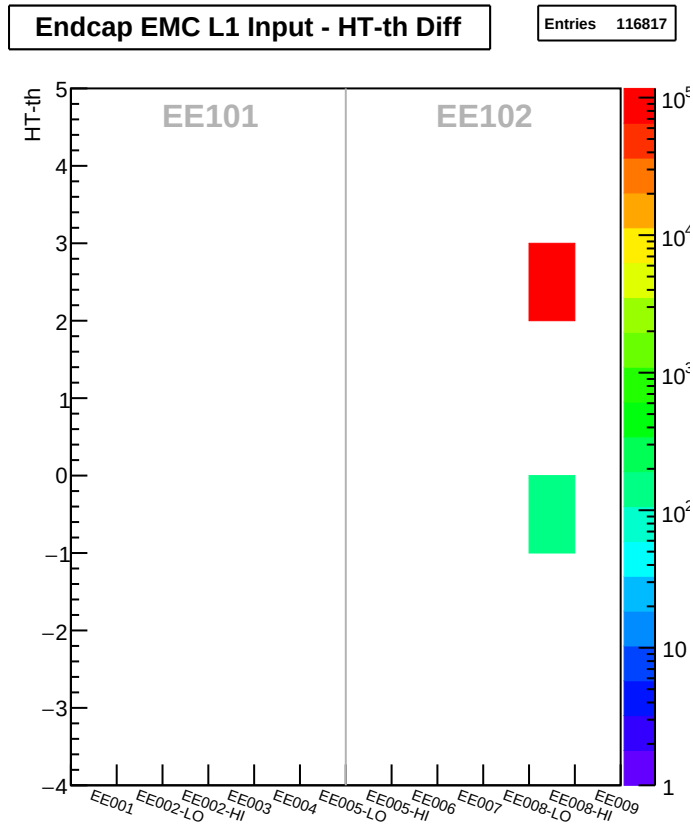

Barrel EMC L1 Input - HT Bits
Entries 1.484255e+08
HT-th Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

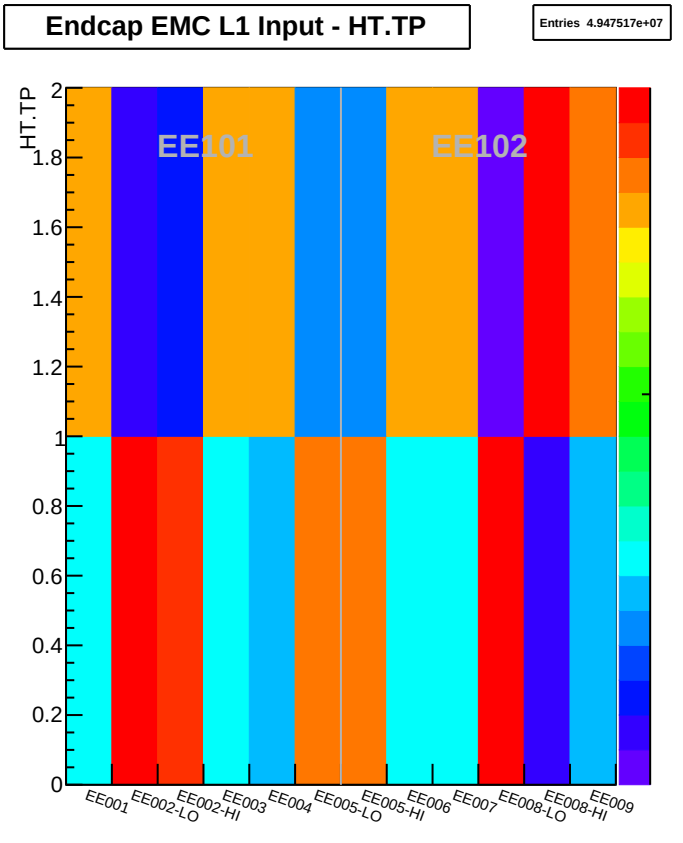

Barrel EMC L1 Input - HT Bits
Entries 0
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

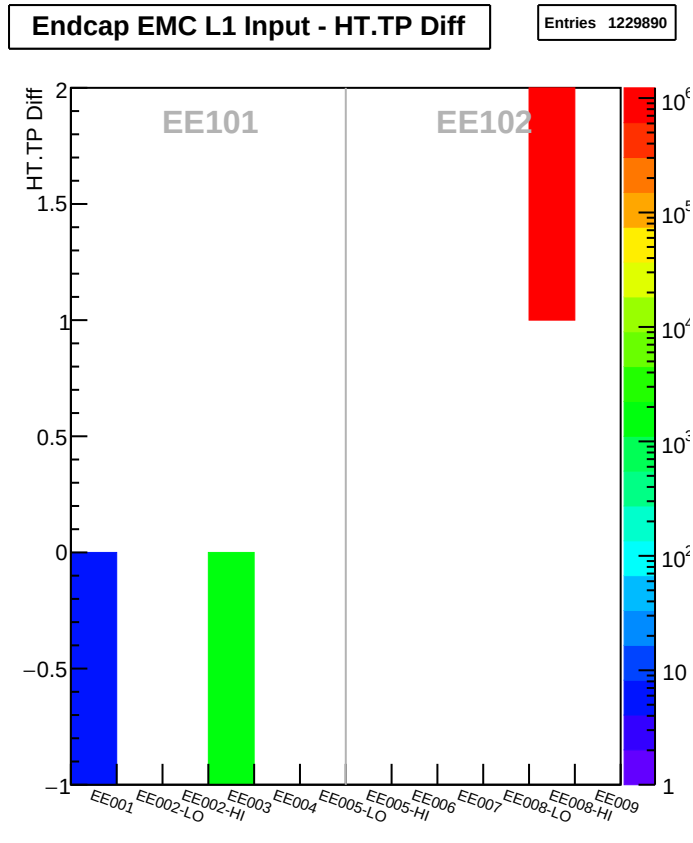

Barrel EMC L1 Input - HT.TP Bit
Entries 1.484255e+08
HT.TP-th Bit
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

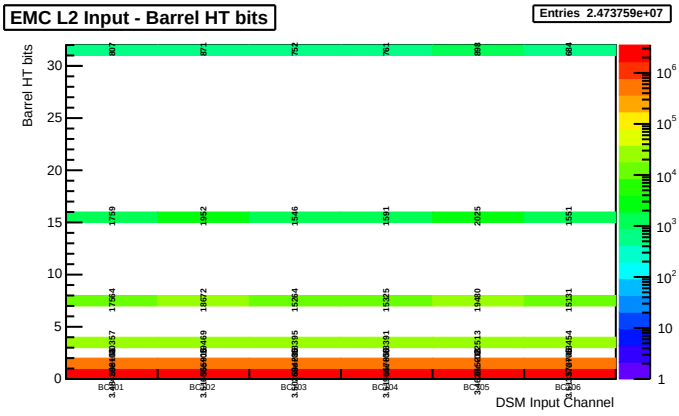

Barrel EMC L1 Input - HT.TP Bit
Entries 0
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

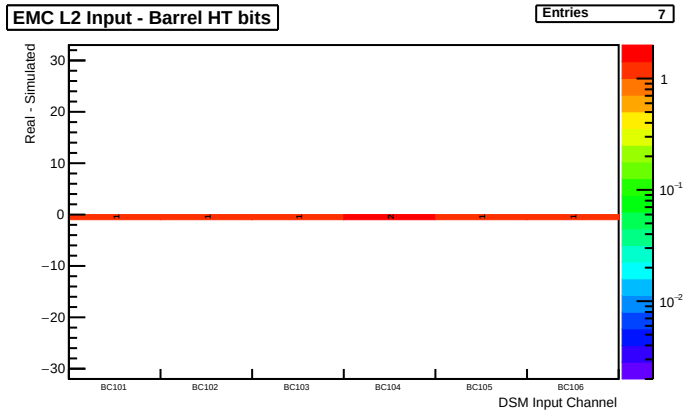

Endcap EMC L1 Input - HT-th
Entries 4.947517e+07
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

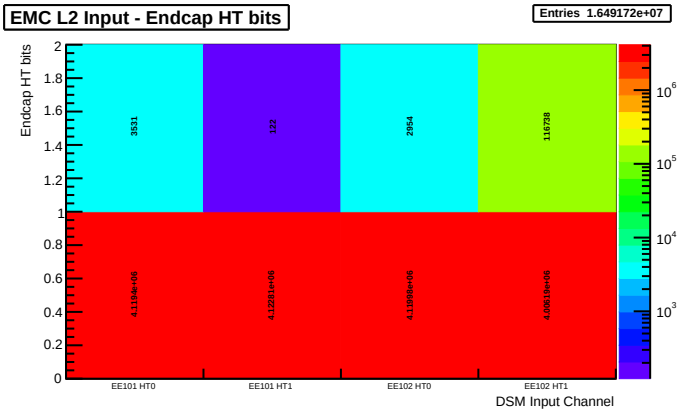

Endcap EMC L1 Input - HT-th Diff
Entries 116817
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

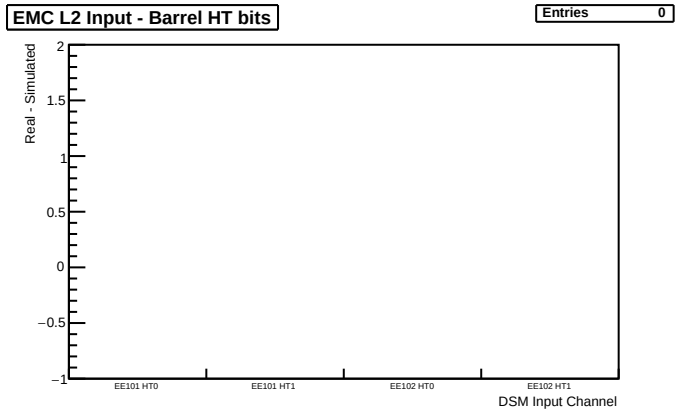

Endcap EMC L1 Input - HT.TP
Entries 4.947517e+07
HT.TP
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

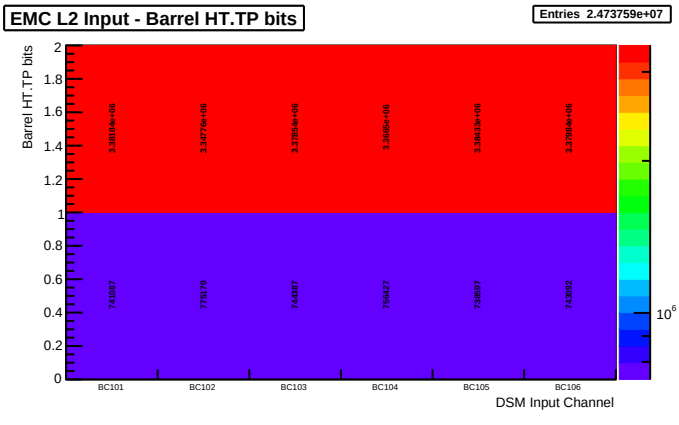

Endcap EMC L1 Input - HT.TP Diff
Entries 1229890
HT.TP Diff
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

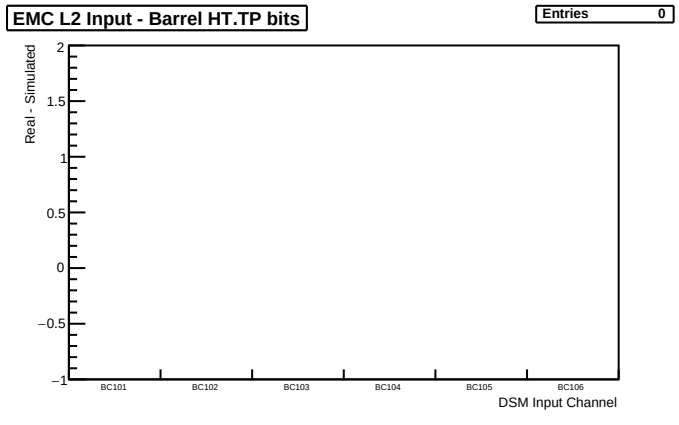

EMC L2 Input - Barrel HT bits
Entries 2.473759e+07
Barrel HT bits
DSM Input Channel

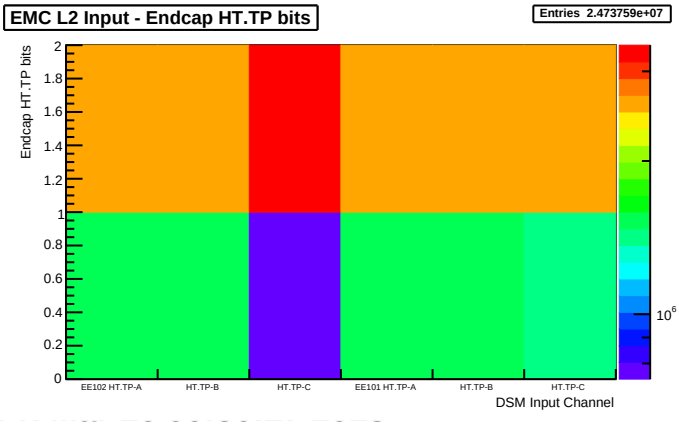

EMC L2 Input - Barrel HT bits
Entries 7
Real - Simulated
DSM Input Channel

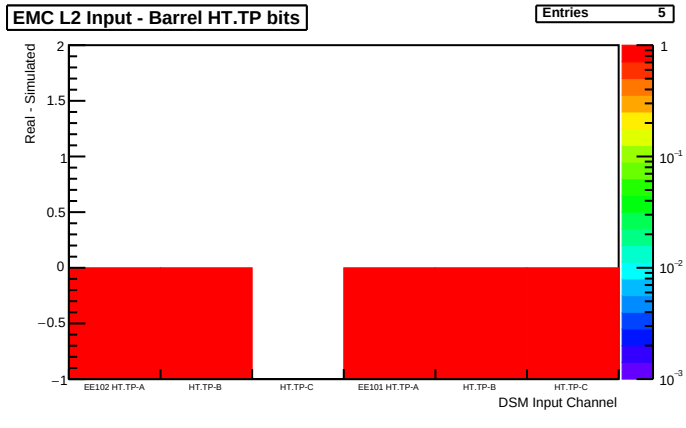

EMC L2 Input - Endcap HT bits
Entries 1.649172e+07
Endcap HT bits
DSM Input Channel

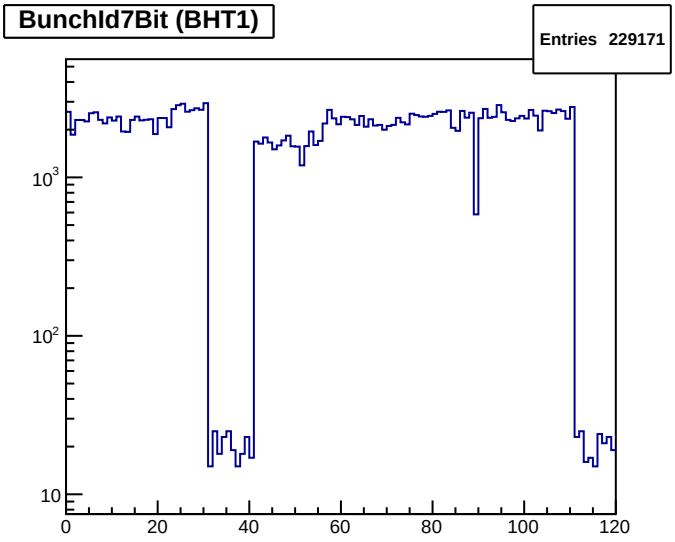

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel

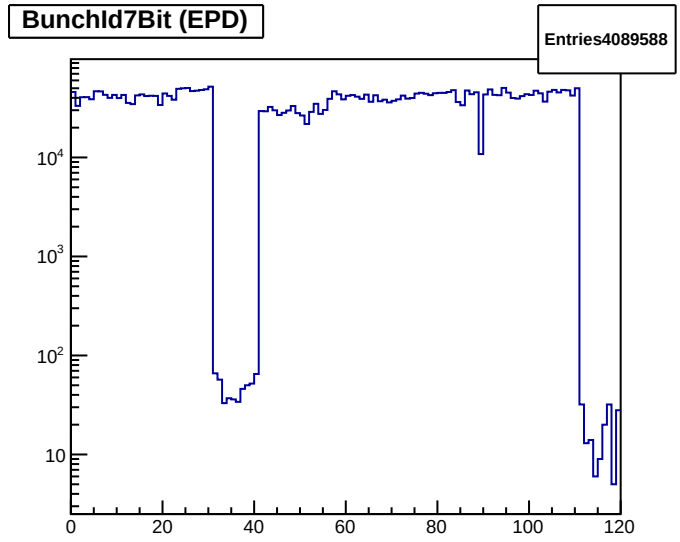

EMC L2 Input - Barrel HT.TP bits
Entries 2.473759e+07
Barrel HT.TP bits
DSM Input Channel

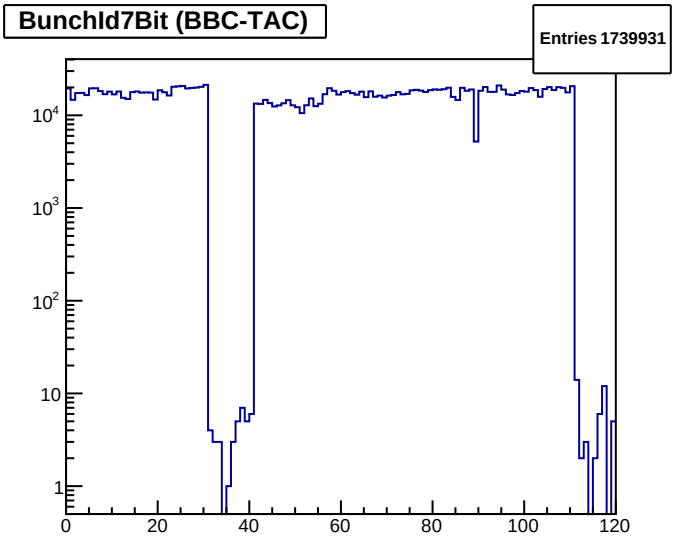

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel

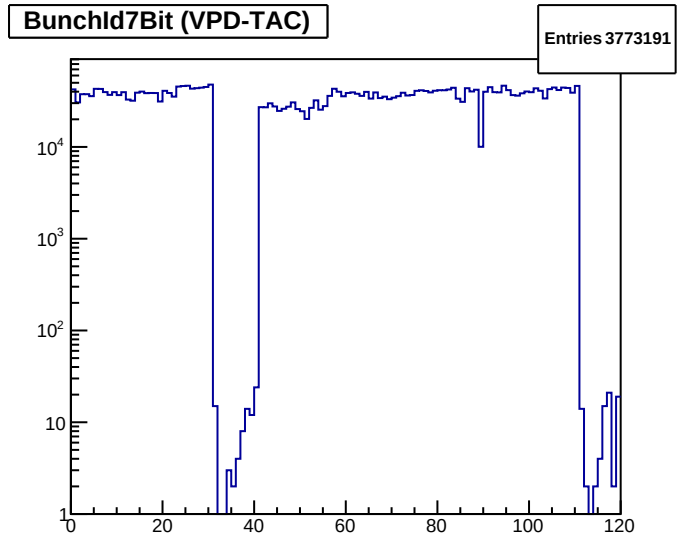

EMC L2 Input - Endcap HT.TP bits
Entries 2.473759e+07
Endcap HT.TP bits
DSM Input Channel

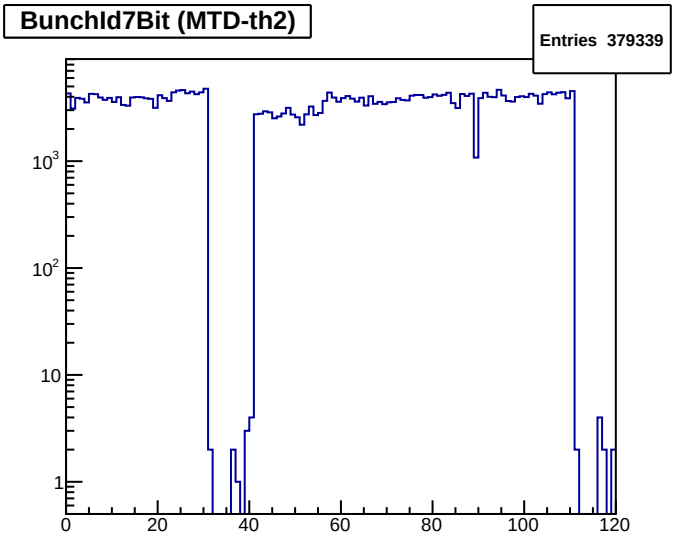

EMC L2 Input - Barrel HT.TP bits
Entries 5
Real - Simulated
DSM Input Channel

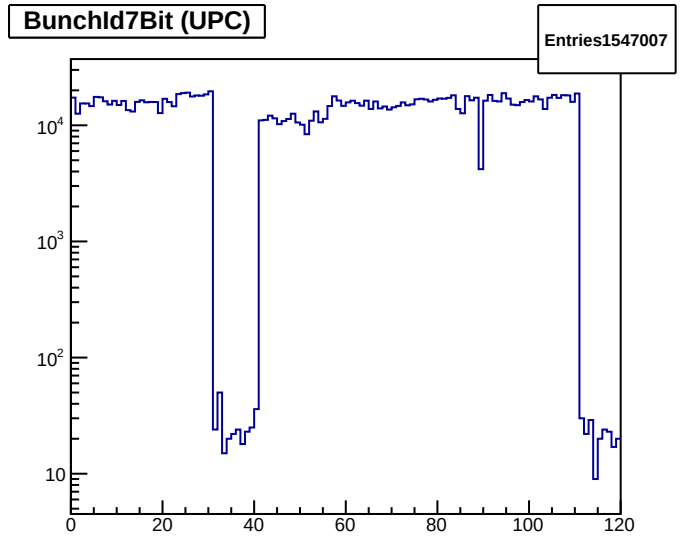

BunchId7Bit (BHT1)
Entries 229171

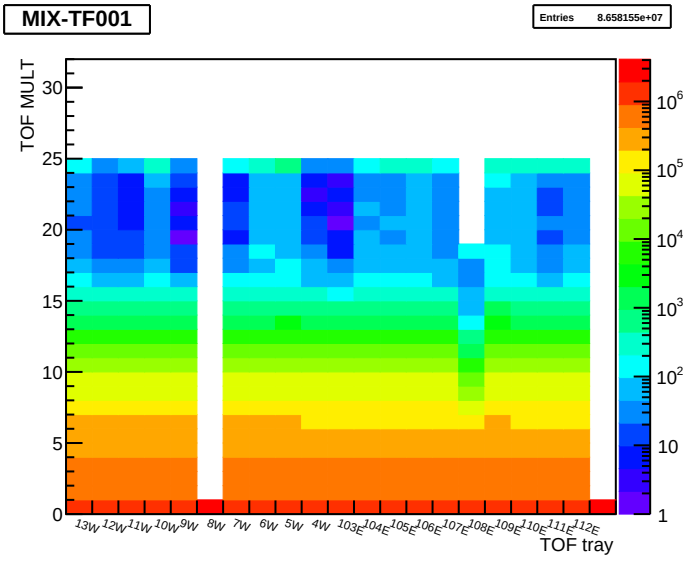

BunchId7Bit (EPD)
Entries4089588

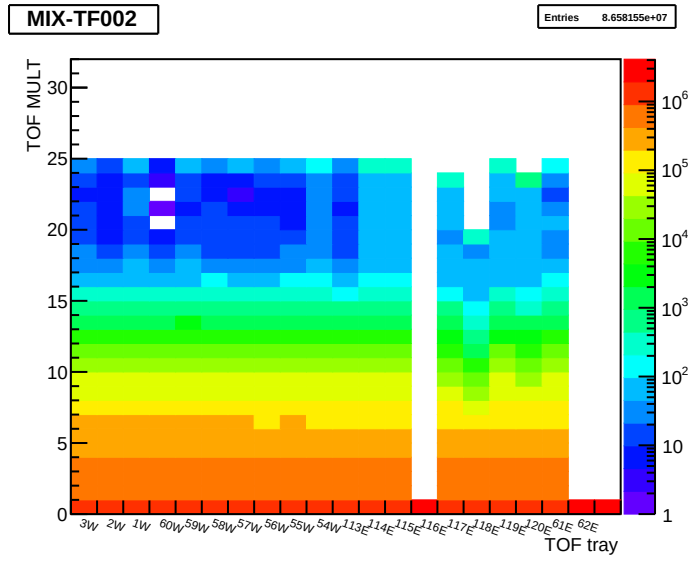

BunchId7Bit (BBC-TAC)
Entries 1739931

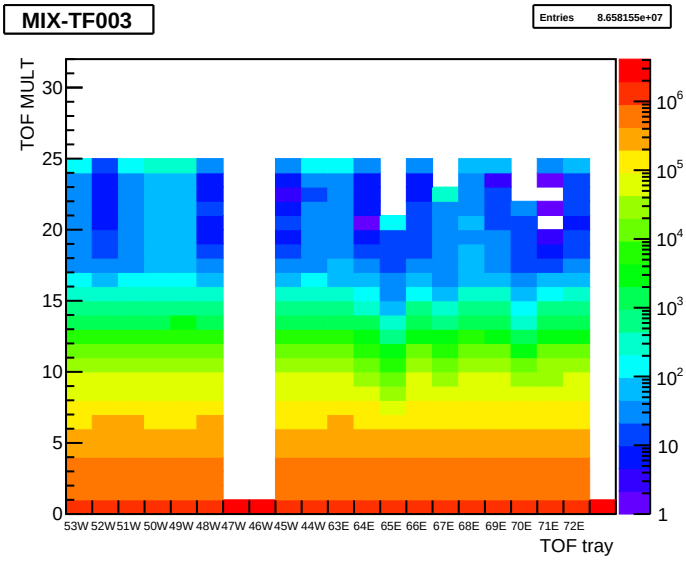

BunchId7Bit (VPD-TAC)
Entries 3773191

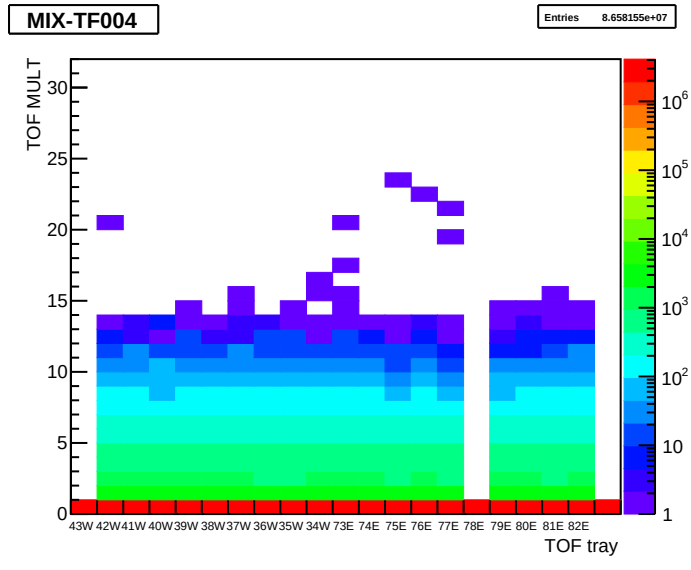

BunchId7Bit (MTD-th2)
Entries 379339

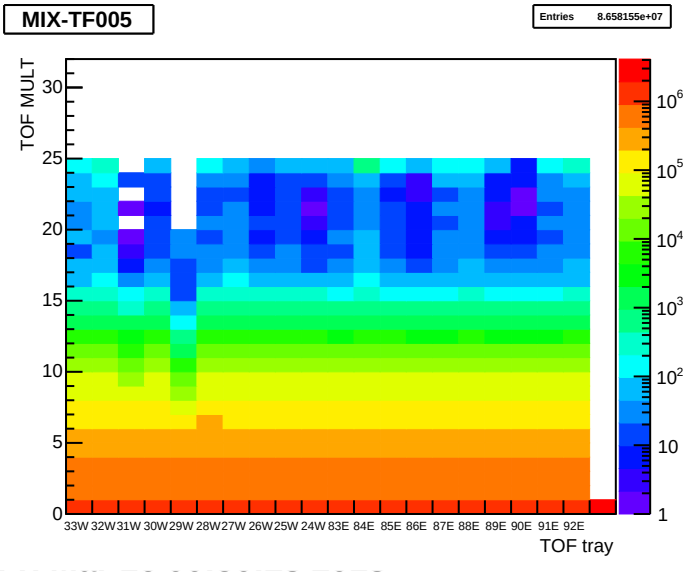

BunchId7Bit (UPC)
Entries1547007

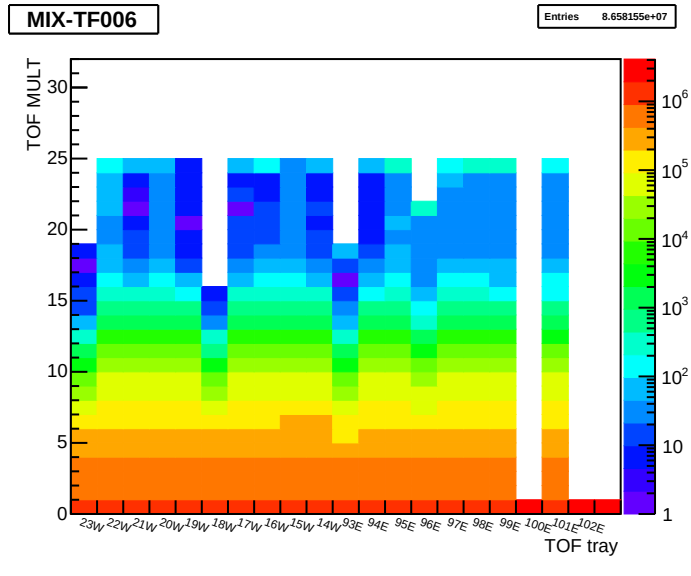

MIX-TF001
Entries 8.658155e+07
TOF MULT
TOF tray

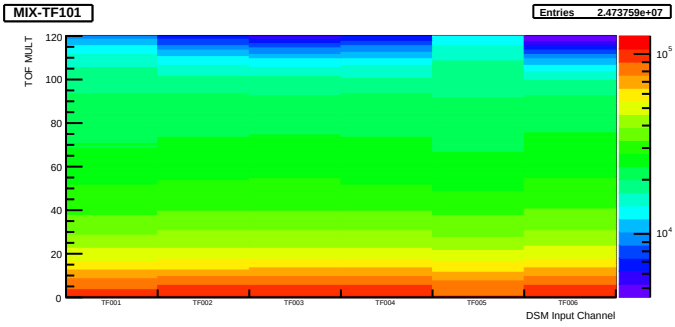

MIX-TF002
Entries 8.658155e+07
TOF MULT
TOF tray

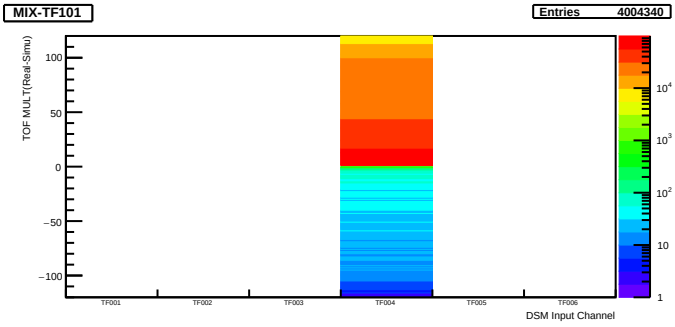

MIX-TF003
Entries 8.658155e+07
TOF MULT
TOF tray

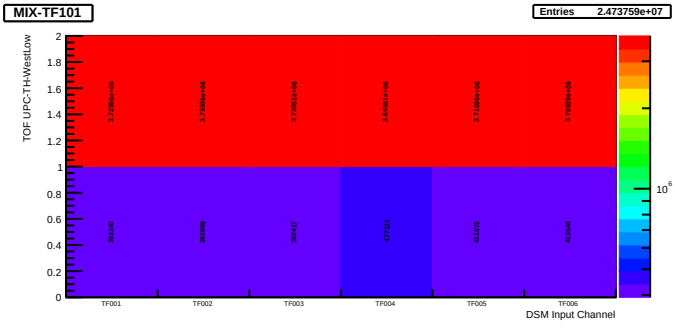

MIX-TF004
Entries 8.658155e+07
TOF MULT
TOF tray

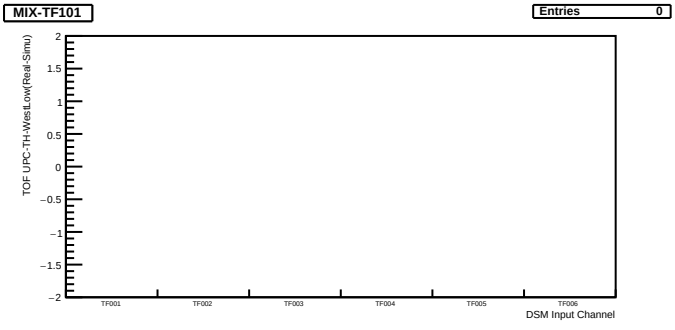

MIX-TF005
Entries 8.658155e+07
TOF MULT
TOF tray

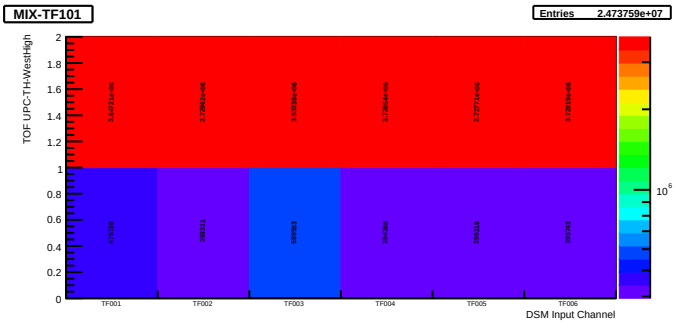

MIX-TF006
Entries 8.658155e+07
TOF MULT
TOF tray

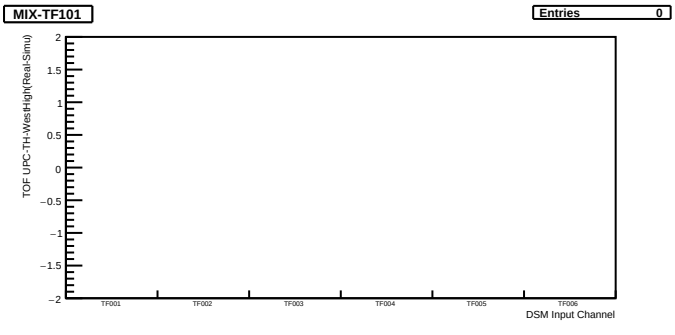

MIX-TF101
Entries 2.473759e+07
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

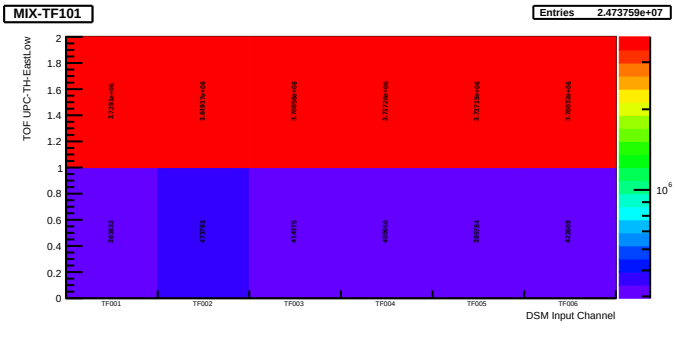

MIX-TF101
Entries 4004340
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

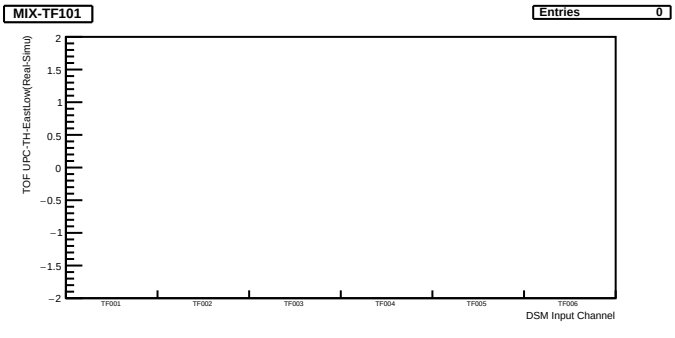

MIX-TF101
Entries 2.473759e+07
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

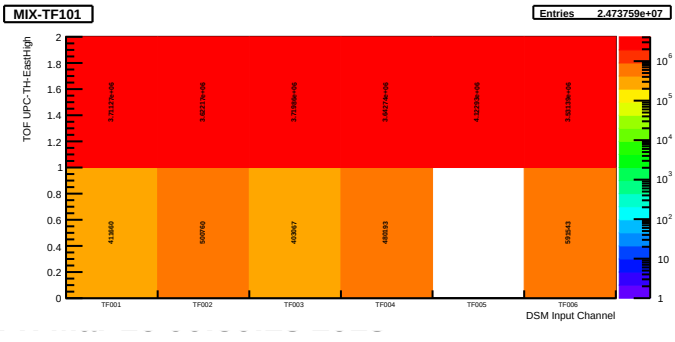

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

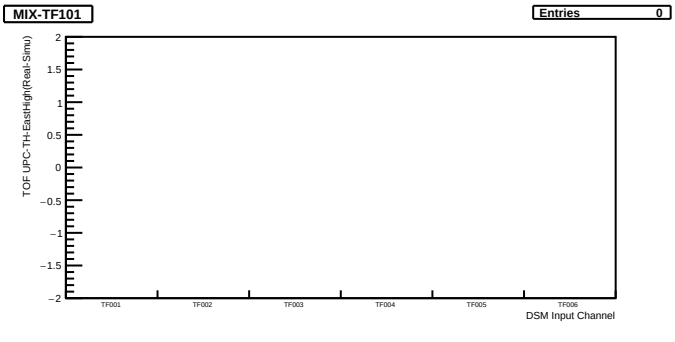

MIX-TF101
Entries 2.473759e+07
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

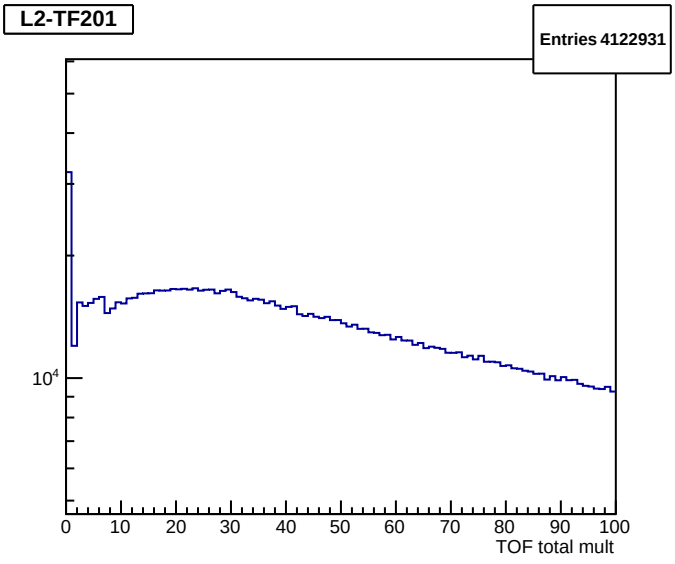

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

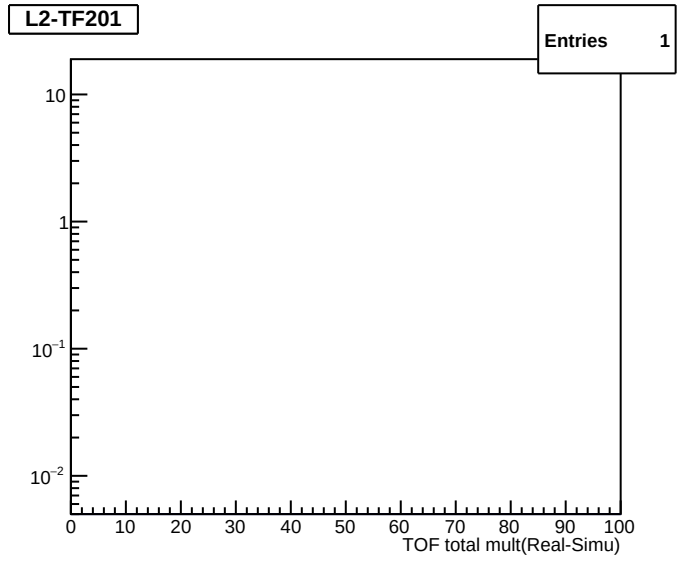

MIX-TF101
Entries 2.473759e+07
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

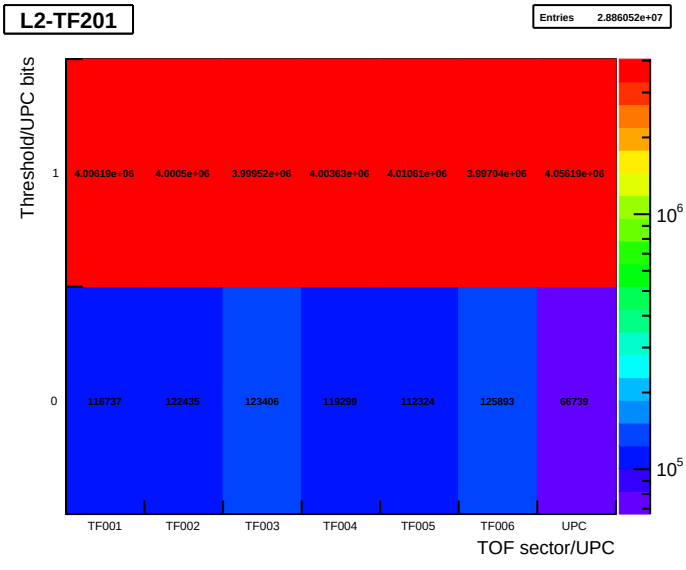

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

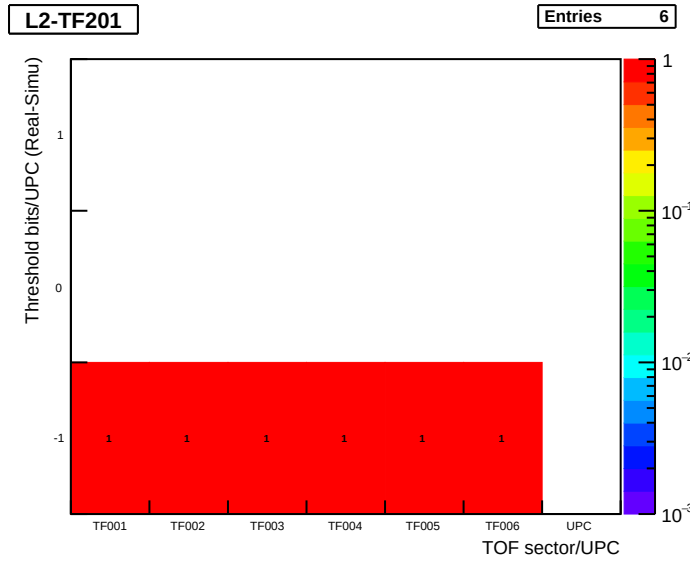

MIX-TF101
Entries 2.473759e+07
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

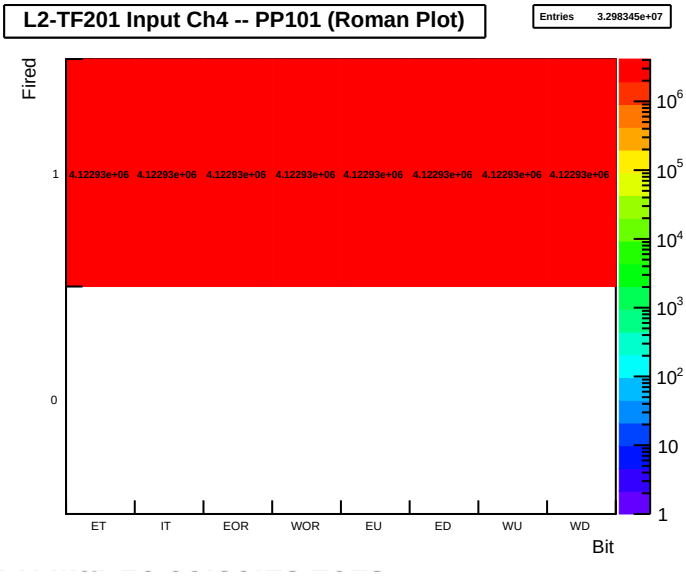

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

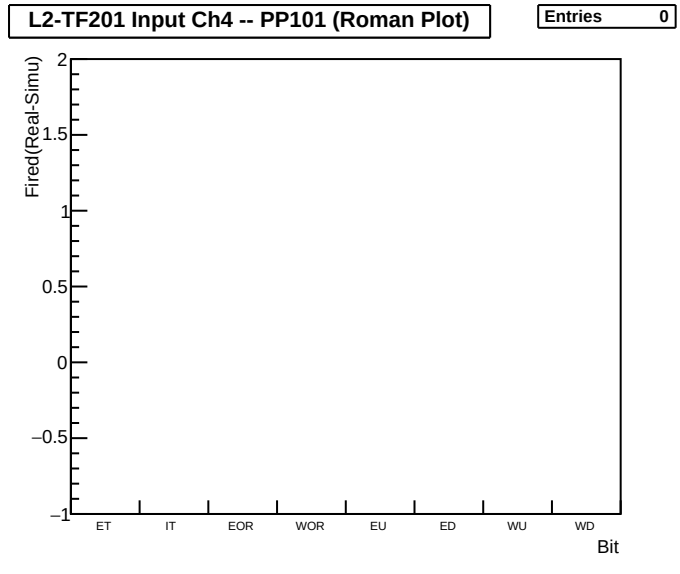

L2-TF201
Entries 4122931
10^4
0 10 20 30 40 50 60 70 80 90 100
TOF total mult

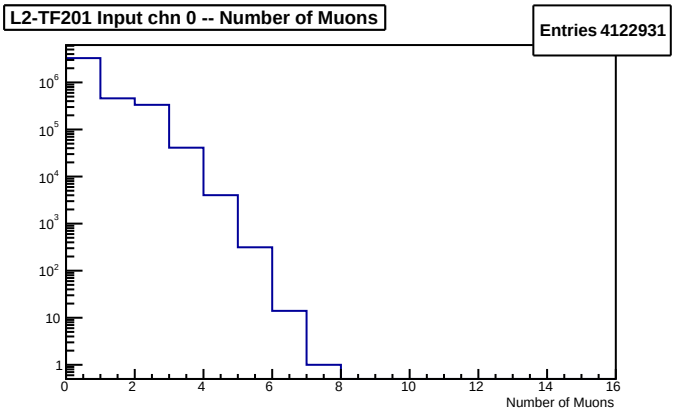

L2-TF201
Entries 1
10
1
10^{-1}
10^{-2}
0 10 20 30 40 50 60 70 80 90 100
TOF total mult(Real-Simu)

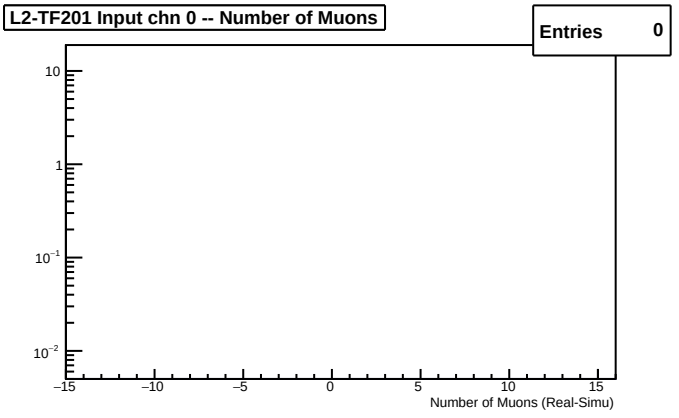

L2-TF201
Entries 2.886052e+07
Threshold/UPC bits
1
0
4.00619e+06 4.0005e+06 3.99952e+06 4.00363e+06 4.01061e+06 3.99704e+06 4.05619e+06
116737 122435 123406 119299 112324 125893 66739
10^6
10^5
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

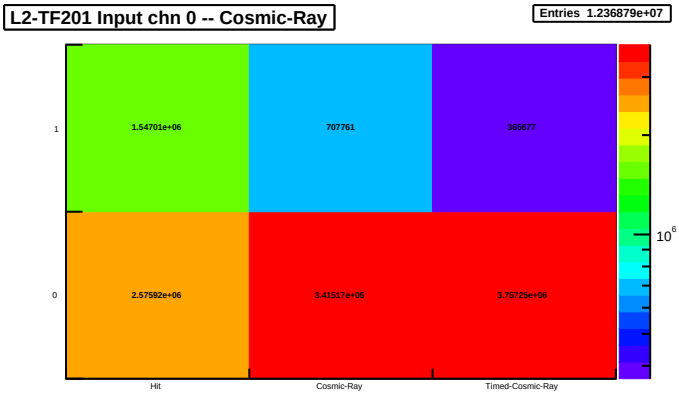

L2-TF201
Entries 6
Threshold bits/UPC (Real-Simu)
1
0
-1
1 1 1 1 1 1
1
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

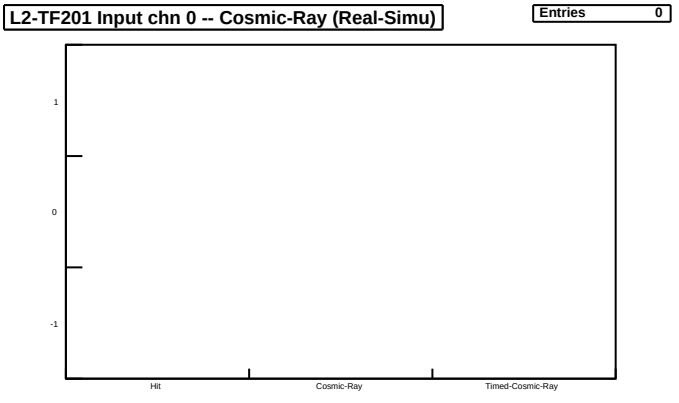

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 3.298345e+07
Fired
1
0
4.12293e+06 4.12293e+06 4.12293e+06 4.12293e+06 4.12293e+06 4.12293e+06 4.12293e+06 4.12293e+06
10^6
10^5
10^4
10^3
10^2
10
1
ET IT EOR WOR EU ED WU WD
Bit

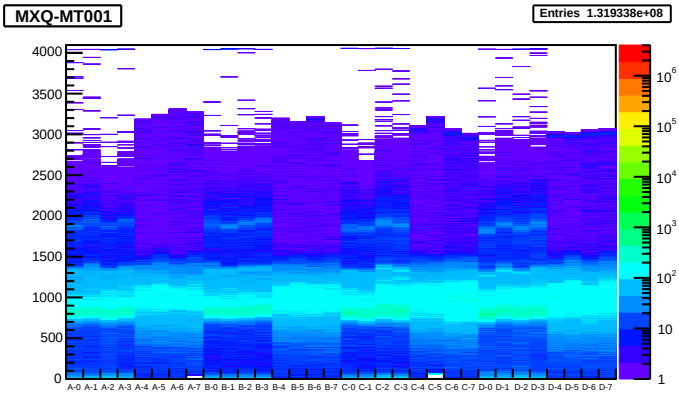

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 0
Fired(Real-Simu)
2
1.5
1
0.5
0
−0.5
−1
ET IT EOR WOR EU ED WU WD
Bit

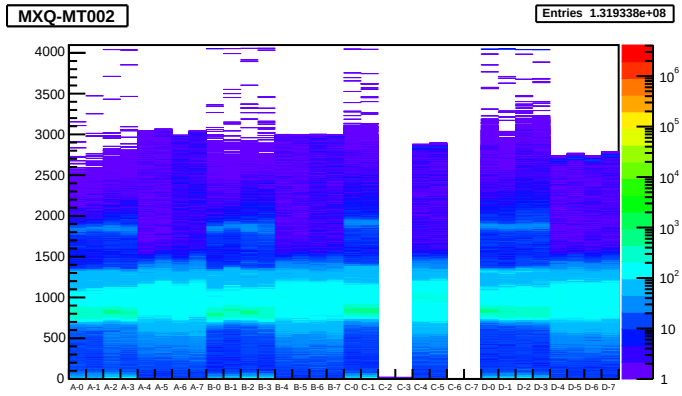

L2-TF201 Input chn 0 -- Number of Muons
Entries 4122931
Number of Muons

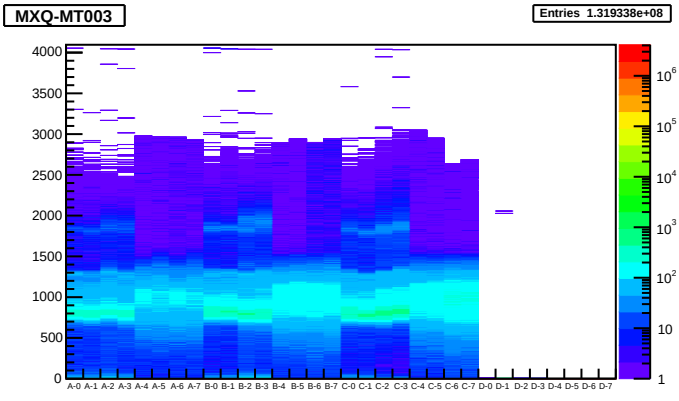

L2-TF201 Input chn 0 -- Number of Muons
Entries 0
Number of Muons (Real-Simu)

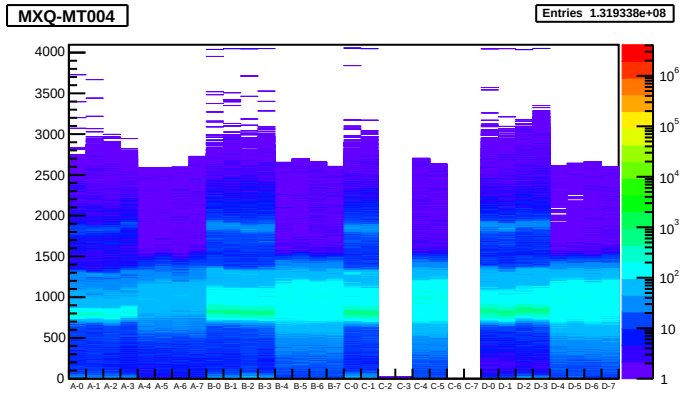

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 1.236879e+07
1.54701e+06
707761
365677
2.57592e+06
3.41517e+06
3.75725e+06
Hit
Cosmic-Ray
Timed-Cosmic-Ray

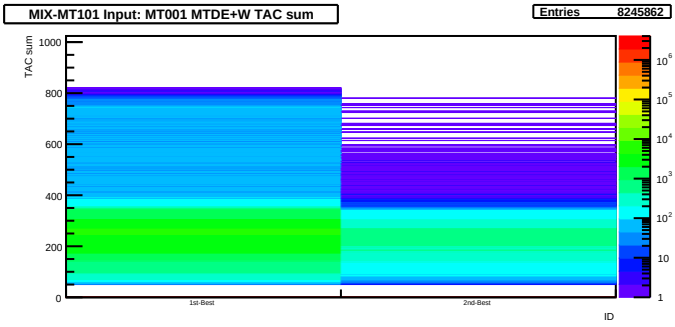

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 0
Hit
Cosmic-Ray
Timed-Cosmic-Ray

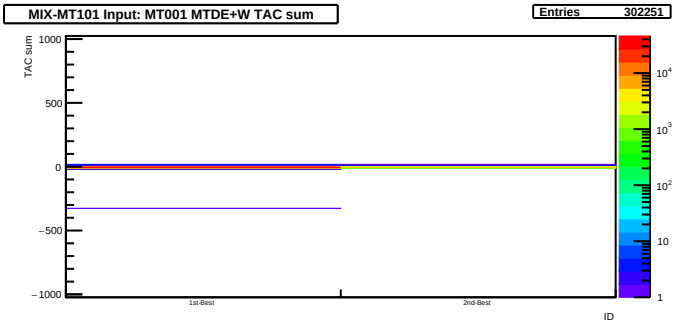

MXQ-MT001
Entries 1.319338e+08

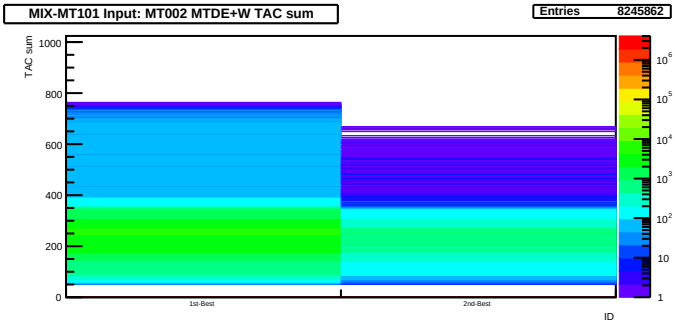

MXQ-MT002
Entries 1.319338e+08

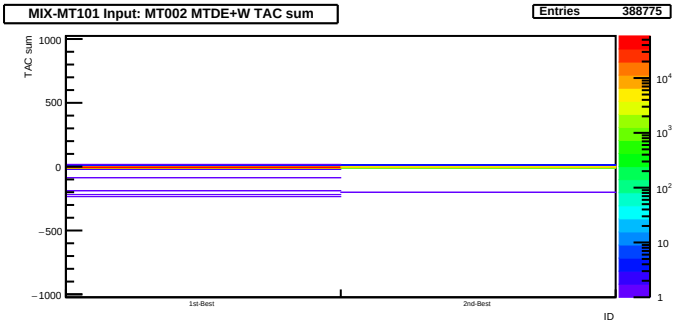

MXQ-MT003
Entries 1.319338e+08

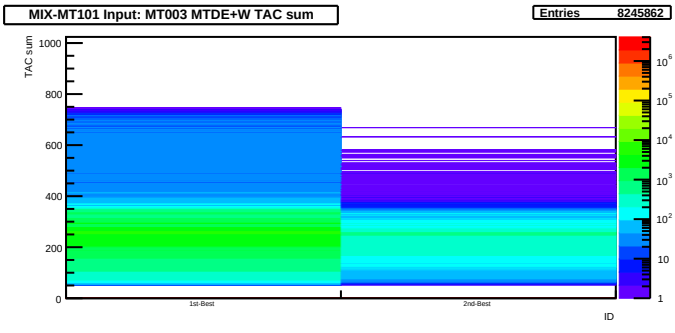

MXQ-MT004
Entries 1.319338e+08

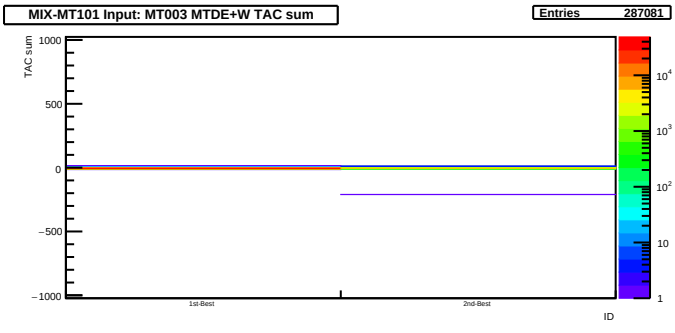

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 8245862
TAC sum
1st-Best
2nd-Best
ID

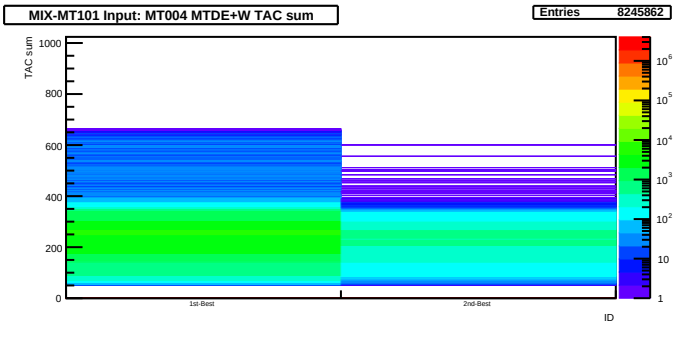

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 302251
TAC sum
1st-Best
2nd-Best
ID

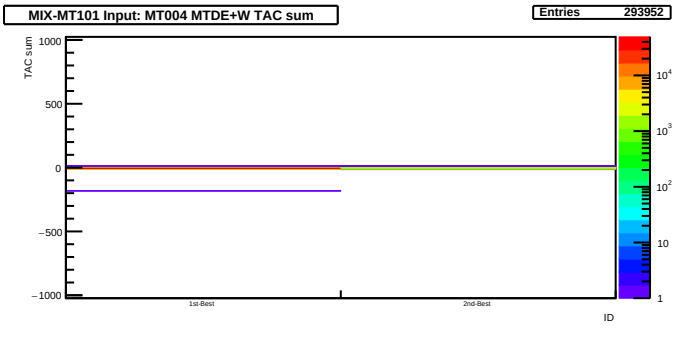

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 8245862
TAC sum
1st-Best
2nd-Best
ID

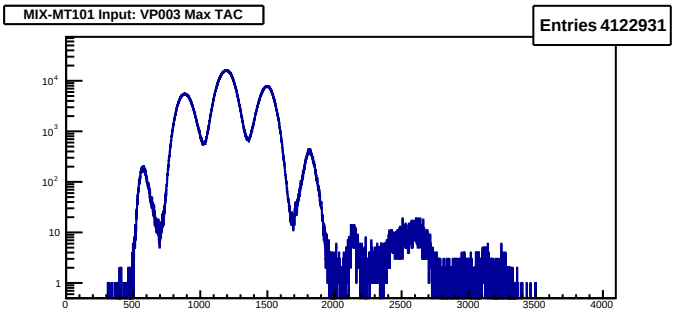

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 388775
TAC sum
1st-Best
2nd-Best
ID

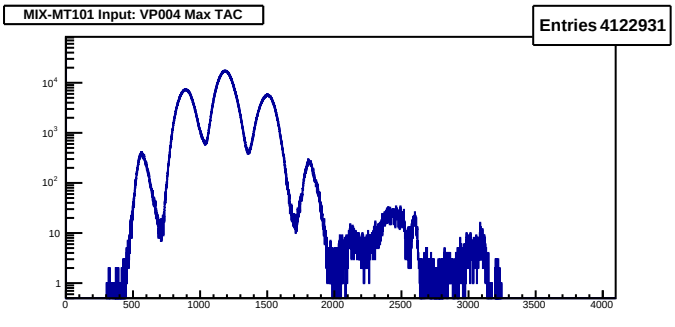

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 8245862
TAC sum
1st-Best
2nd-Best
ID

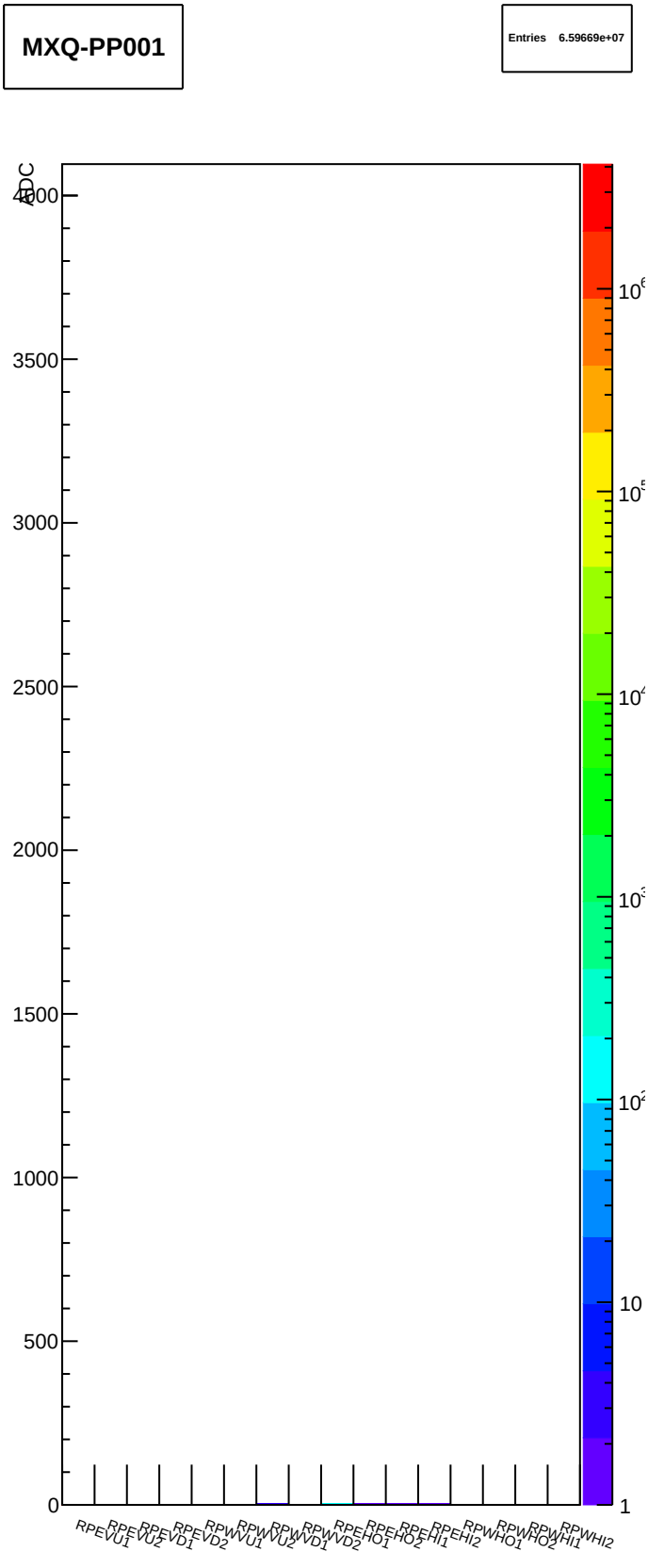

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 287081
TAC sum
1st-Best
2nd-Best
ID

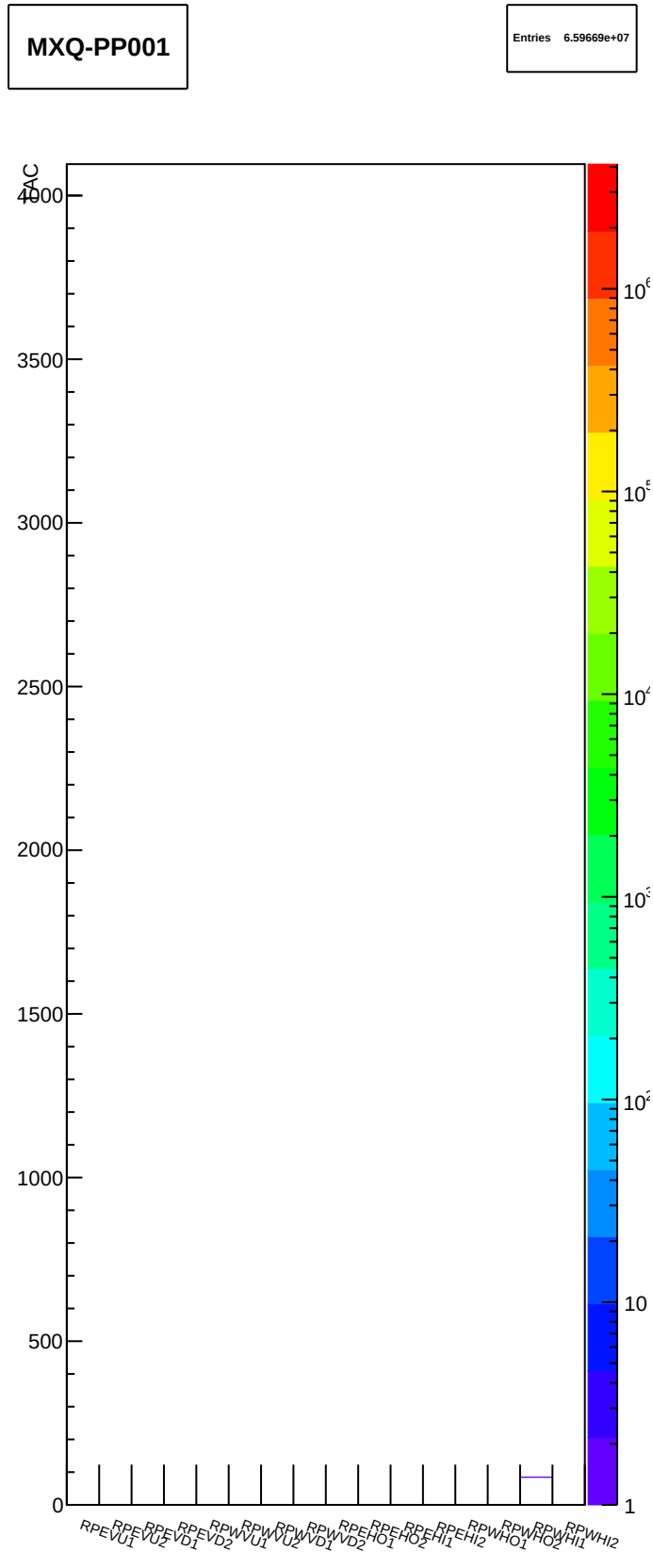

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 8245862
TAC sum
1st-Best
2nd-Best
ID

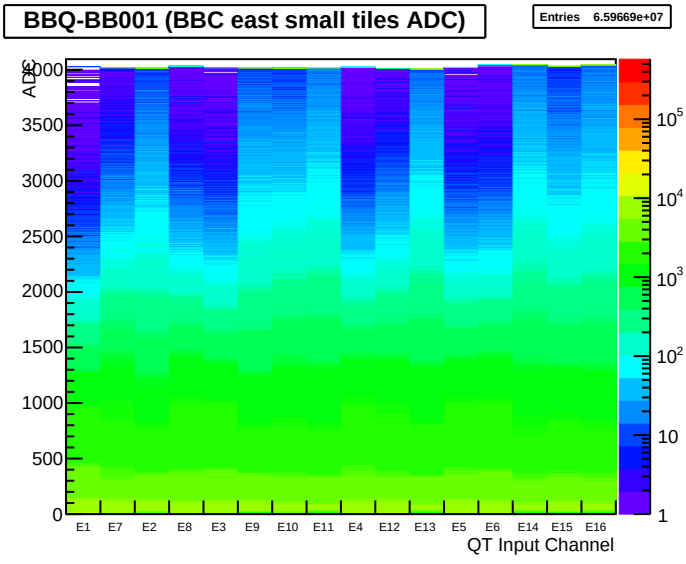

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 293952
TAC sum
1st-Best
2nd-Best
ID

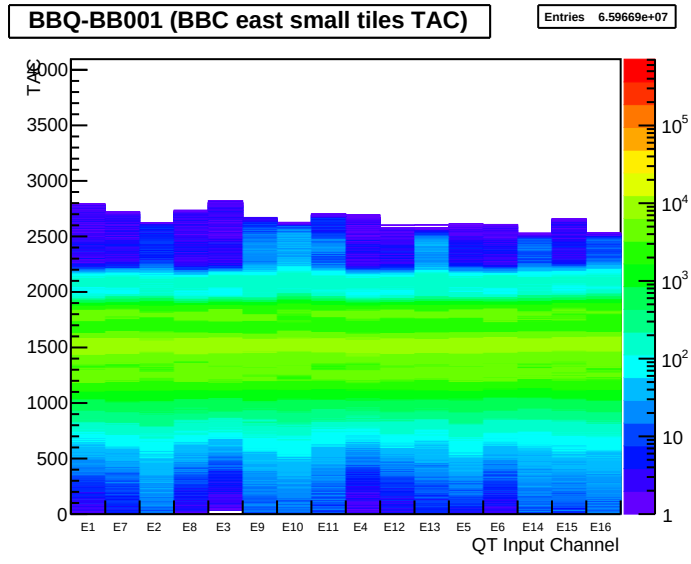

MIX-MT101 Input: VP003 Max TAC
Entries 4122931

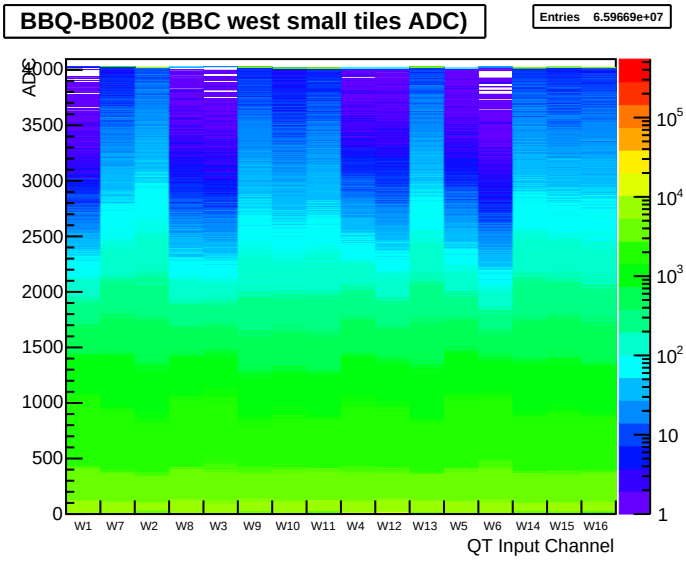

MIX-MT101 Input: VP004 Max TAC
Entries 4122931

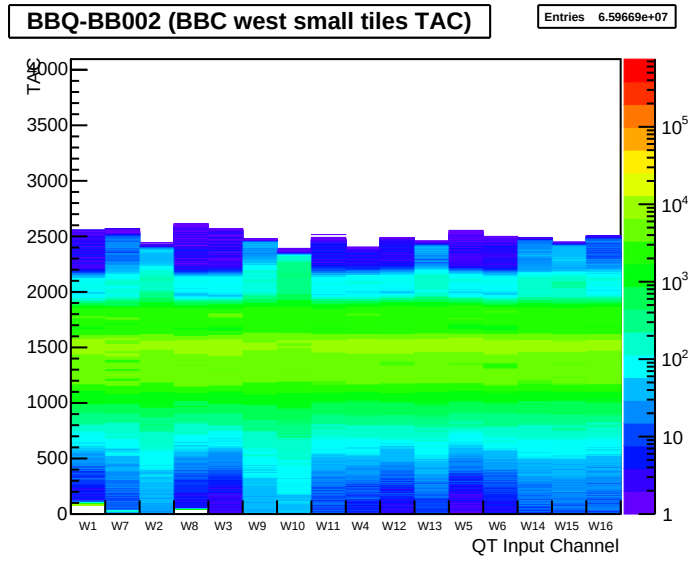

MXQ-PP001
Entries 6.59669e+07
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10^6
10^5
10^4
10^3
10^2
10
1

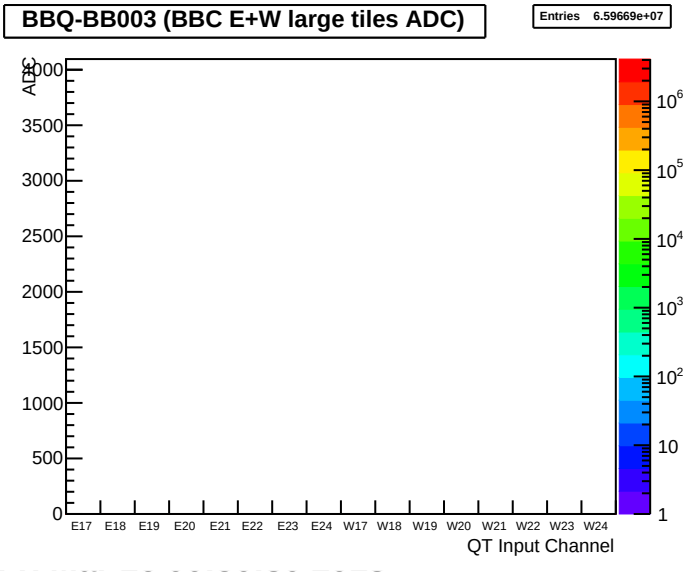

MXQ-PP001
Entries 6.59669e+07
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10^6
10^5
10^4
10^3
10^2
10
1

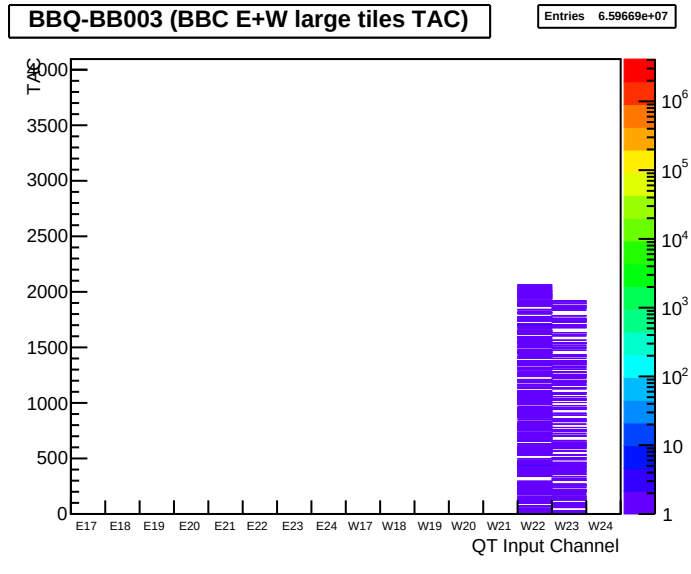

BBQ-BB001 (BBC east small tiles ADC)
Entries 6.59669e+07
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

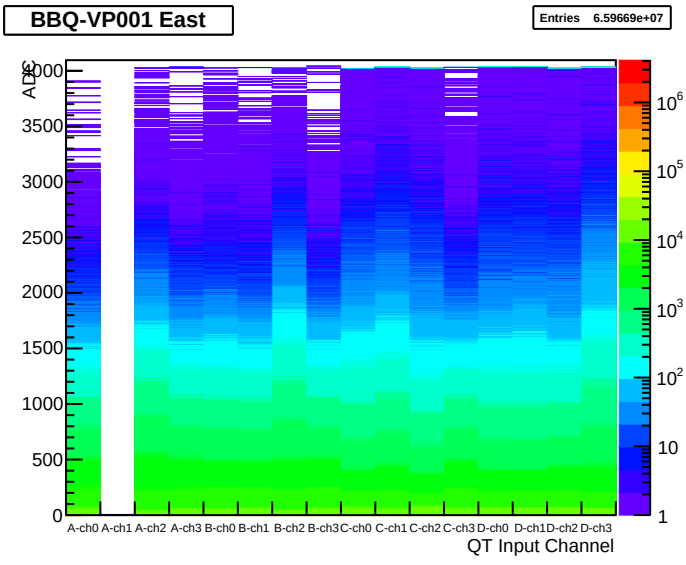

BBQ-BB001 (BBC east small tiles TAC)
Entries 6.59669e+07
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

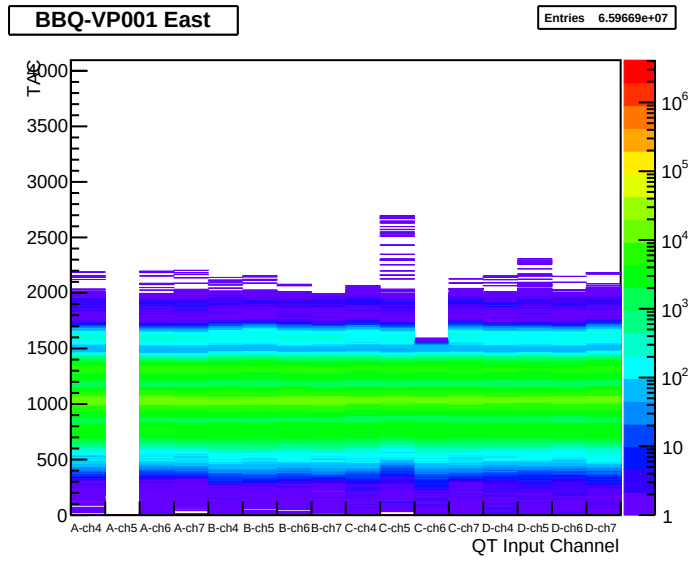

BBQ-BB002 (BBC west small tiles ADC)
Entries 6.59669e+07
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

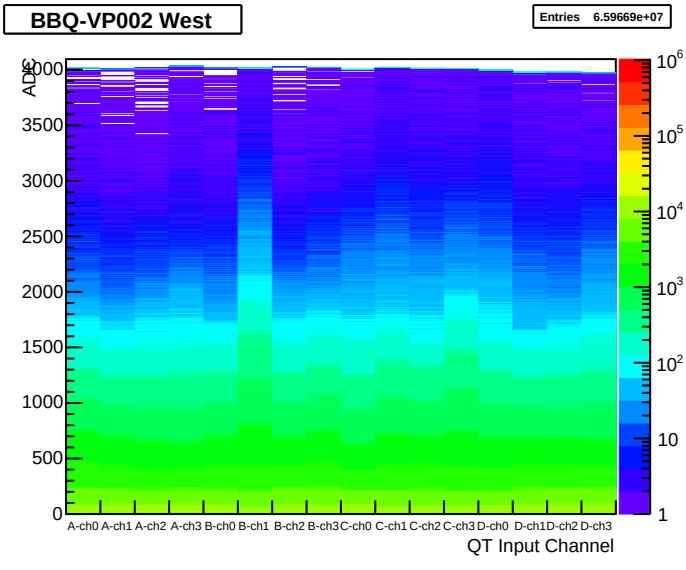

BBQ-BB002 (BBC west small tiles TAC)
Entries 6.59669e+07
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

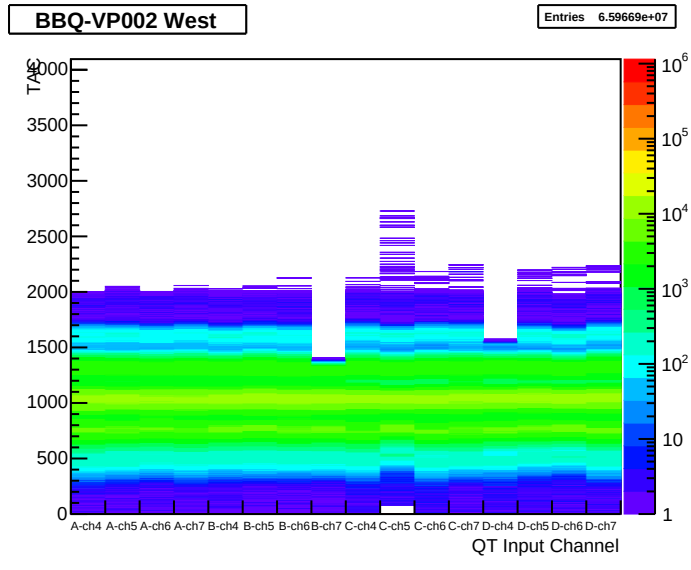

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6.59669e+07
ADC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

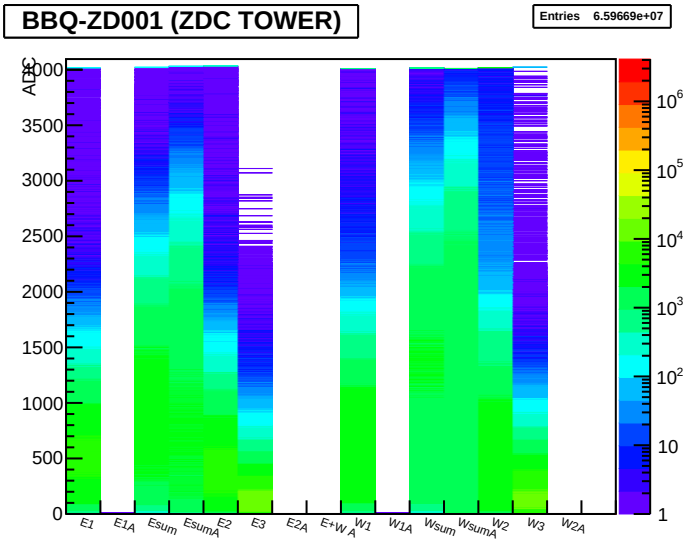

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6.59669e+07
TAC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

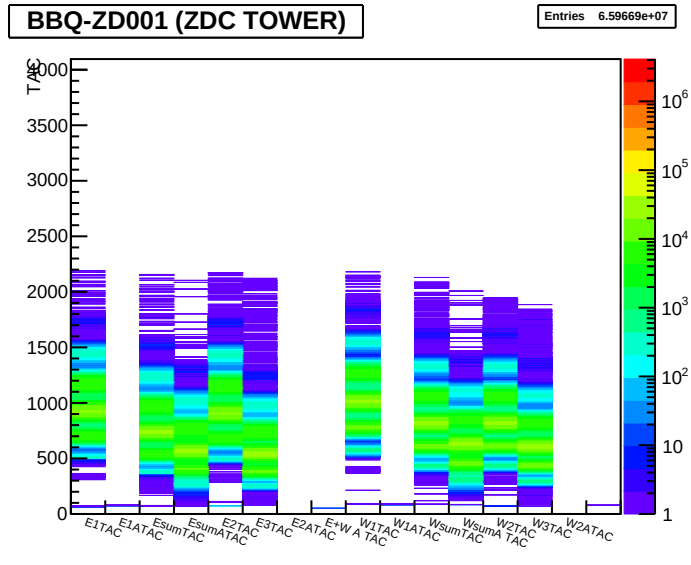

BBQ-VP001 East
Entries 6.59669e+07
ADC
QT Input Channel

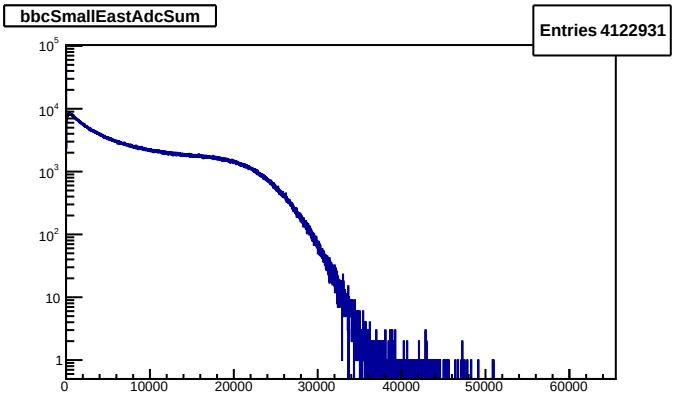

BBQ-VP001 East
Entries 6.59669e+07
TAC
QT Input Channel

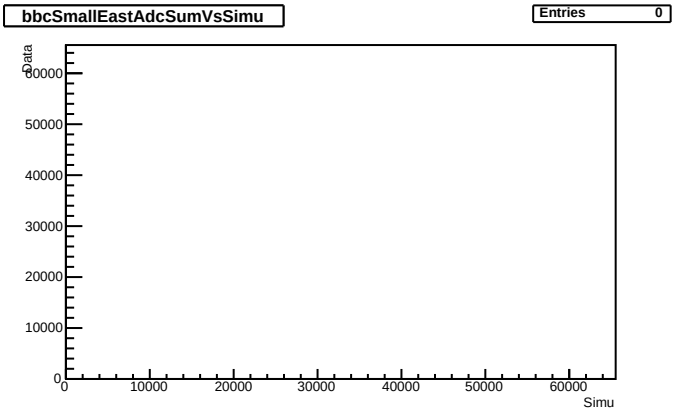

BBQ-VP002 West
Entries 6.59669e+07
ADC
QT Input Channel

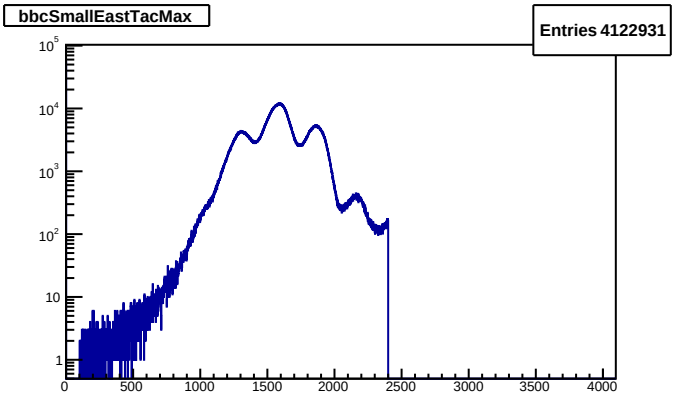

BBQ-VP002 West
Entries 6.59669e+07
TAC
QT Input Channel

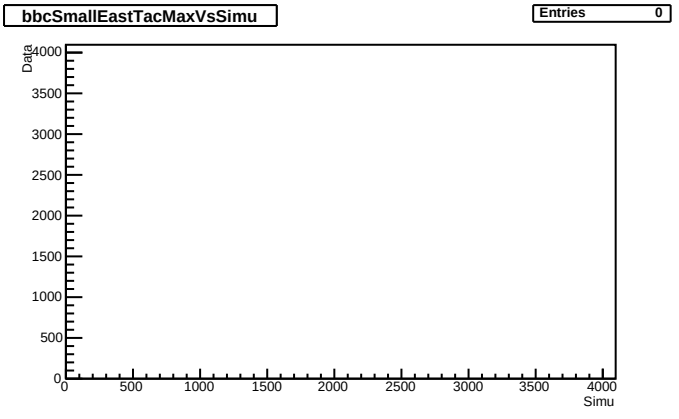

BBQ-ZD001 (ZDC TOWER)
Entries 6.59669e+07
ADC

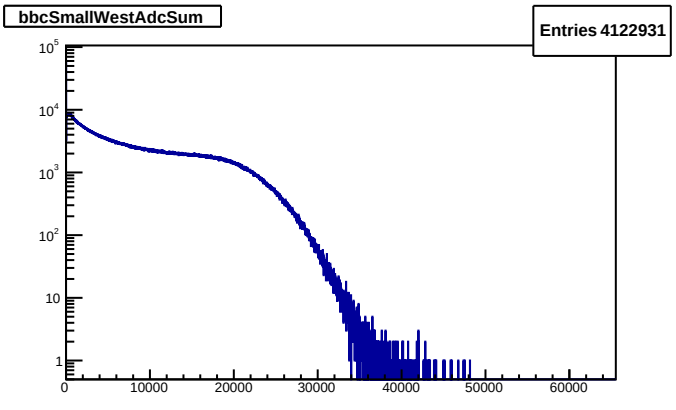

BBQ-ZD001 (ZDC TOWER)
Entries 6.59669e+07
TAC

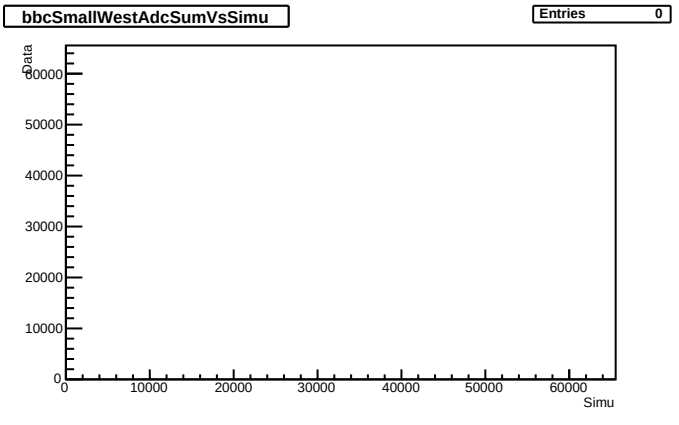

bbcSmallEastAdcSum
Entries 4122931

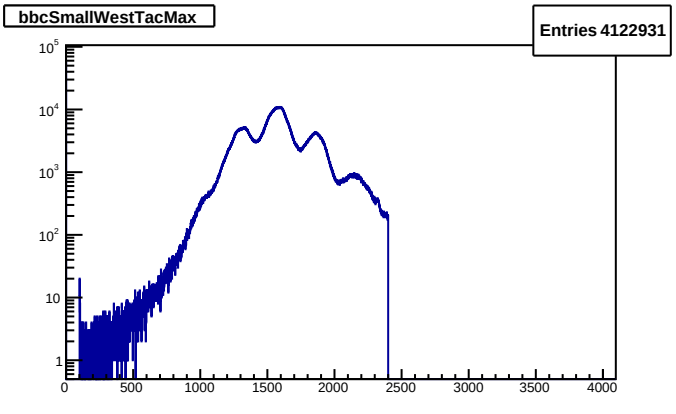

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

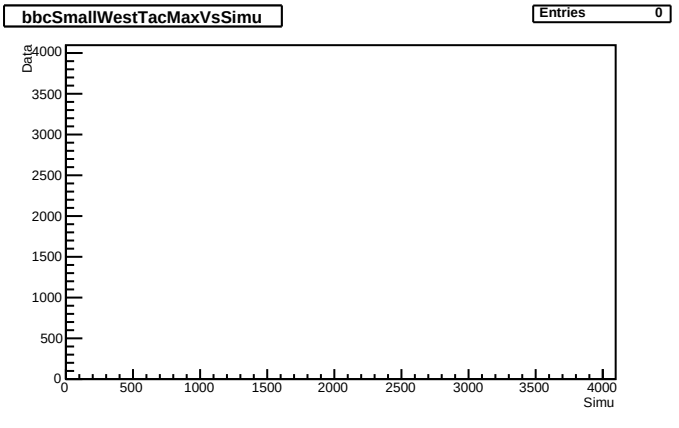

bbcSmallEastTacMax
Entries 4122931

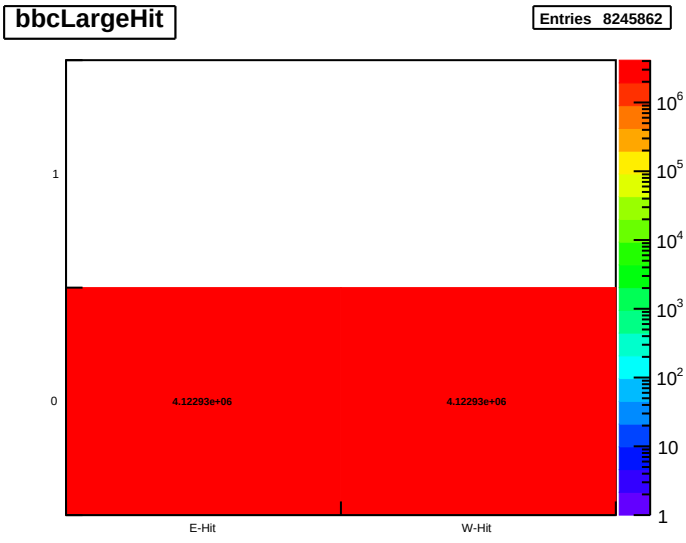

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

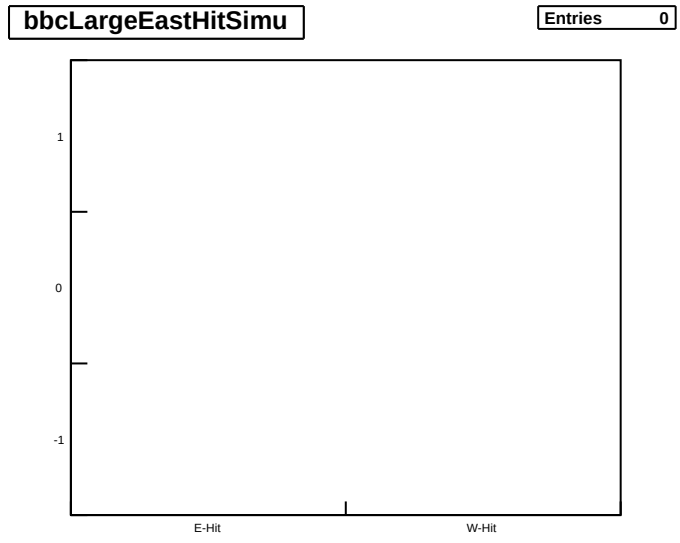

bbcSmallWestAdcSum
Entries 4122931

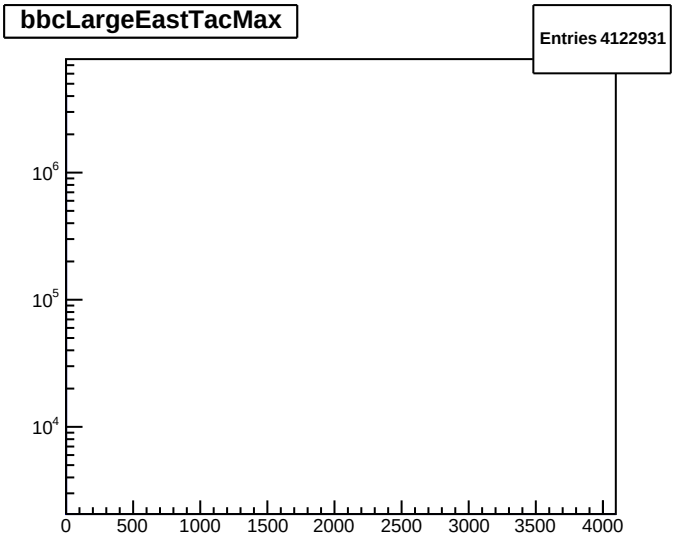

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

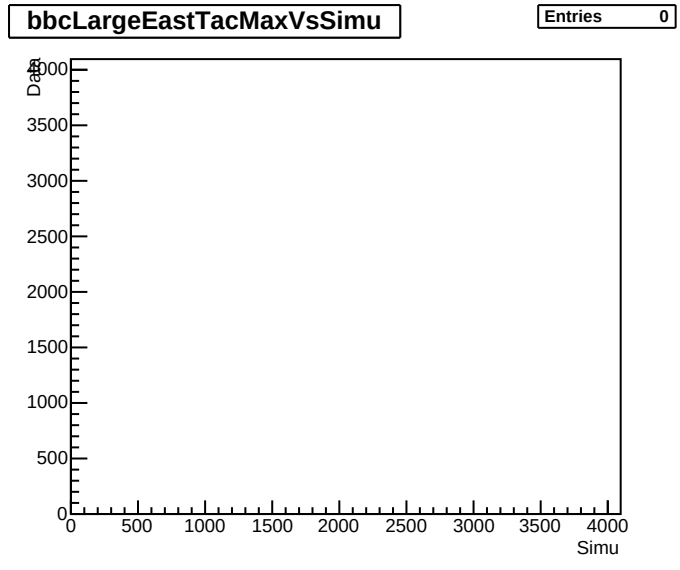

bbcSmallWestTacMax
Entries 4122931

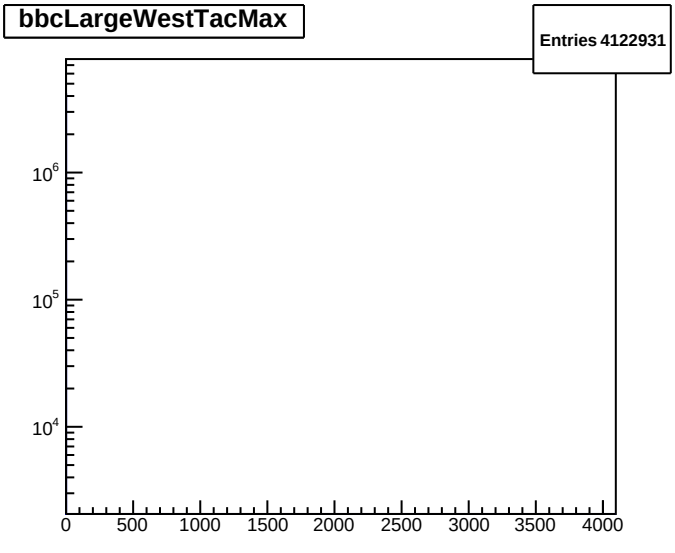

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

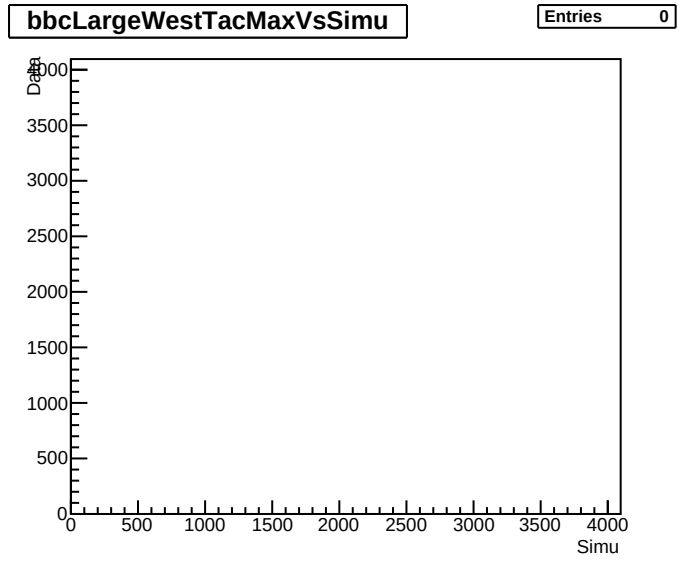

bbcLargeHit
Entries 8245862
1
0
4.12293e+06
4.12293e+06
E-Hit
W-Hit
10^6
10^5
10^4
10^3
10^2
10
1

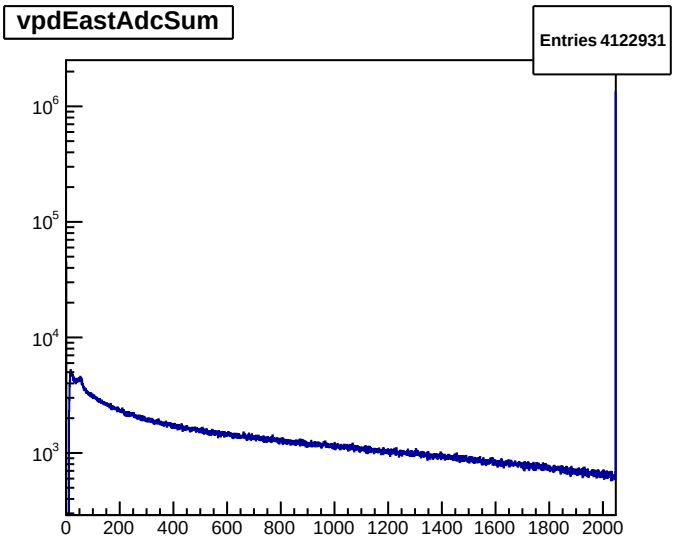

bbcLargeEastHitSimu
Entries 0
1
0
-1
E-Hit
W-Hit

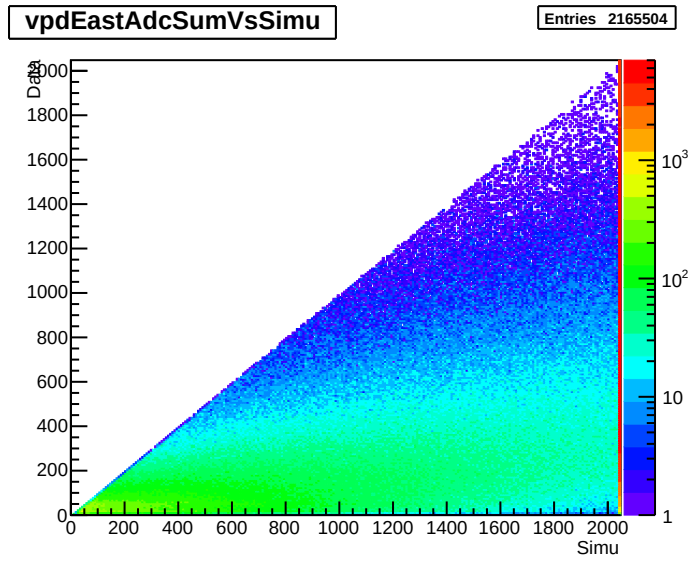

bbcLargeEastTacMax
Entries 4122931
10^6
10^5
10^4
0
500
1000
1500
2000
2500
3000
3500
4000

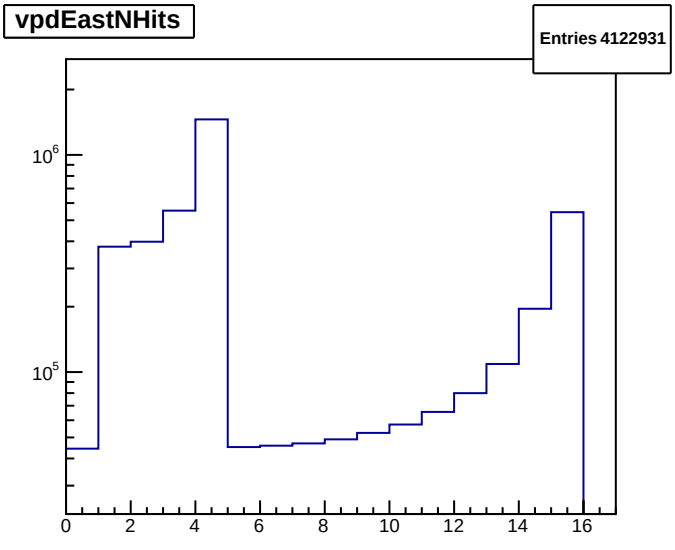

bbcLargeEastTacMaxVsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0
500
1000
1500
2000
2500
3000
3500
4000
Simu

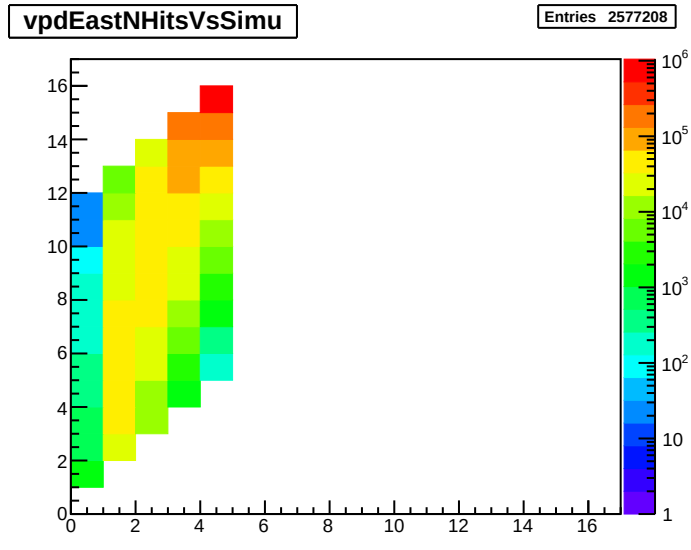

bbcLargeWestTacMax
Entries 4122931
10^6
10^5
10^4
0
500
1000
1500
2000
2500
3000
3500
4000

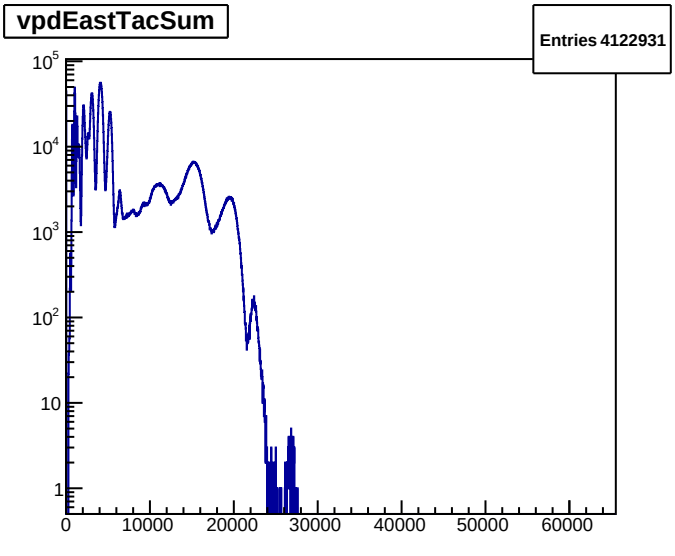

bbcLargeWestTacMaxVsSimu
Entries 0
Data
4000
3500
3000
2500
2000
1500
1000
500
0
0
500
1000
1500
2000
2500
3000
3500
4000
Simu

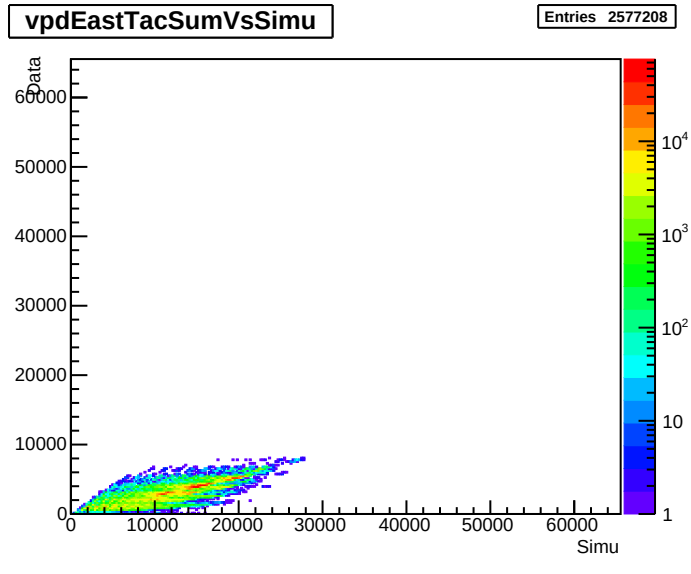

vpdEastAdcSum
Entries 4122931

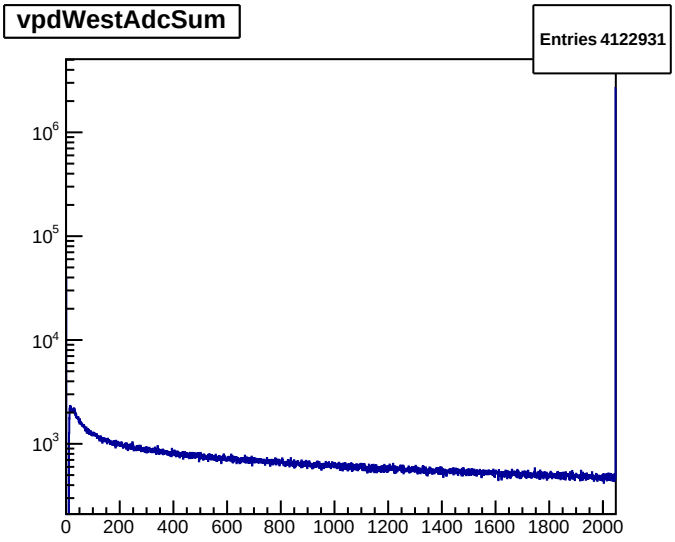

vpdEastAdcSumVsSimu
Entries 2165504
Data
Simu

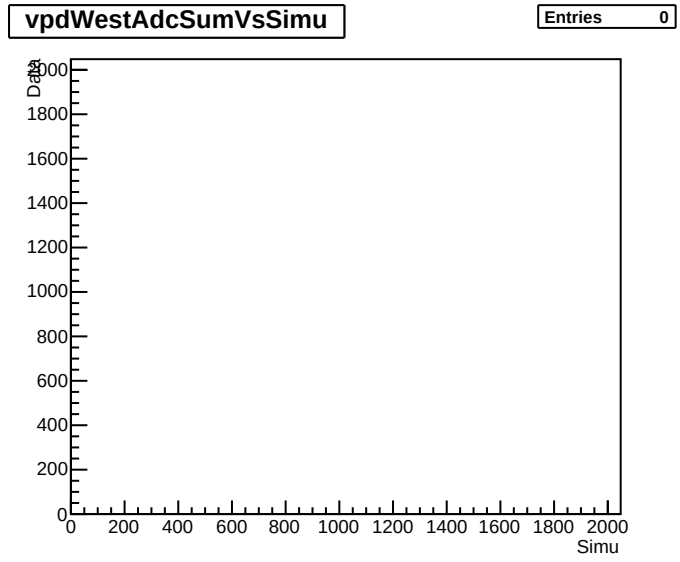

vpdEastNHits
Entries 4122931

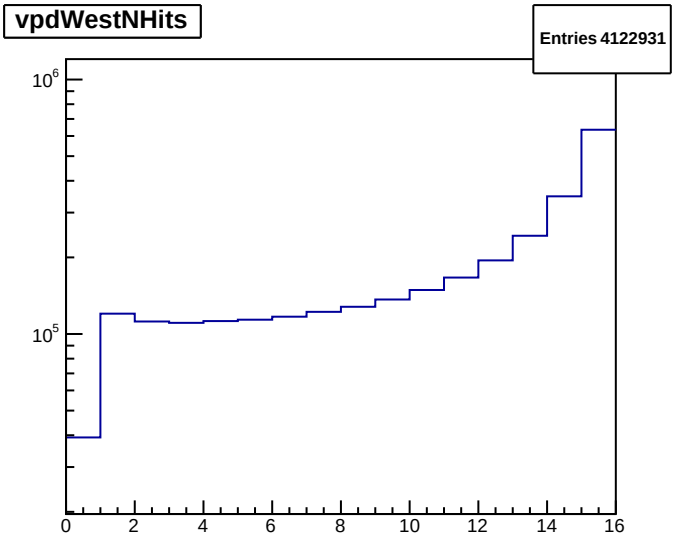

vpdEastNHitsVsSimu
Entries 2577208

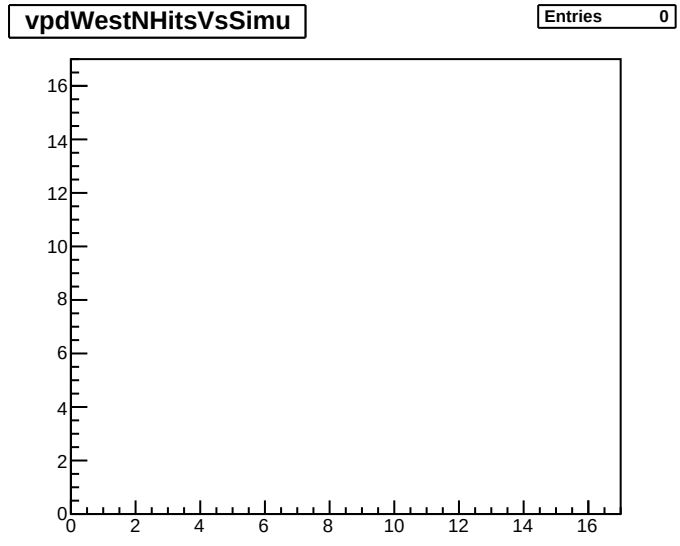

vpdEastTacSum
Entries 4122931

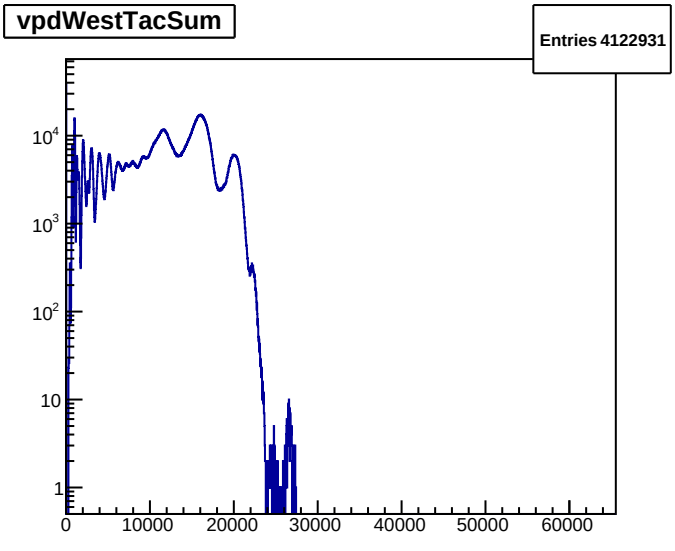

vpdEastTacSumVsSimu
Entries 2577208
Data
Simu

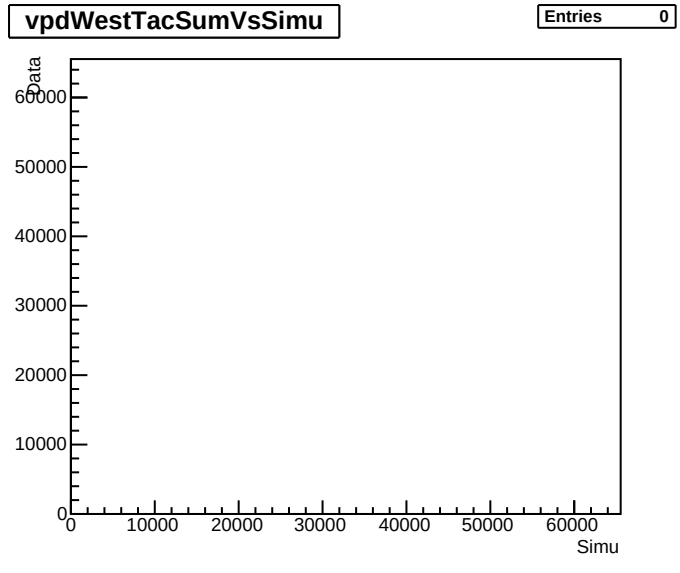

vpdWestAdcSum
Entries 4122931
10^6
10^5
10^4
10^3
0 200 400 600 800 1000 1200 1400 1600 1800 2000

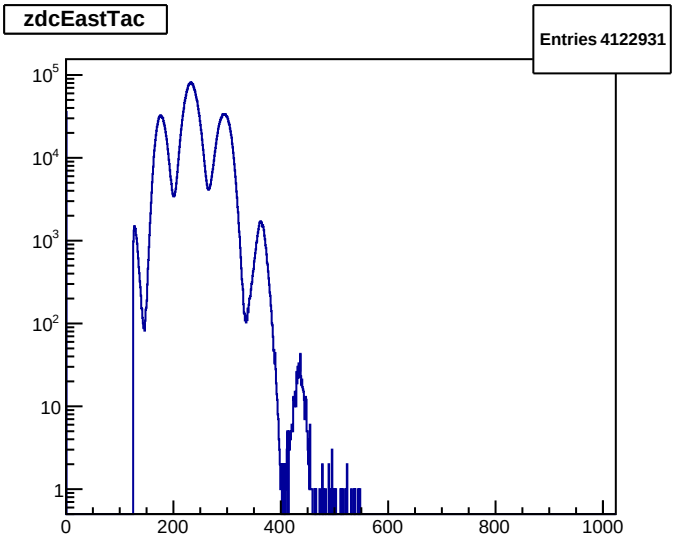

vpdWestAdcSumVsSimu
Entries 0
Data
2000
1800
1600
1400
1200
1000
800
600
400
200
0
0 200 400 600 800 1000 1200 1400 1600 1800 2000
Simu

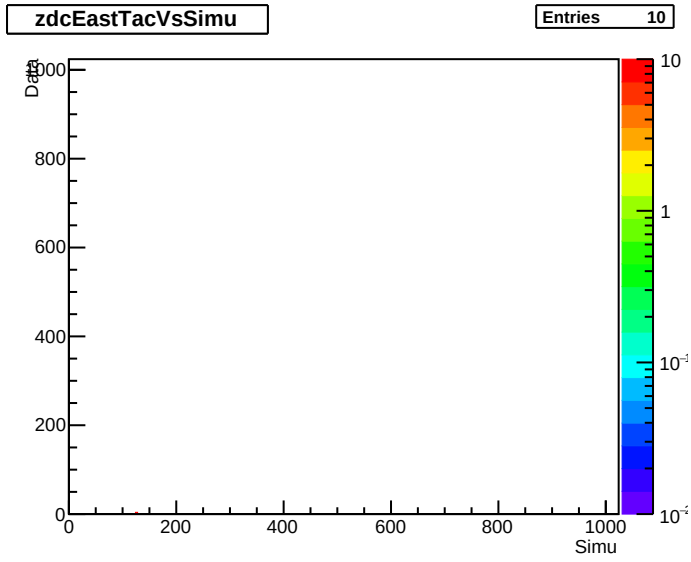

vpdWestNHits
Entries 4122931
10^6
10^5
0 2 4 6 8 10 12 14 16

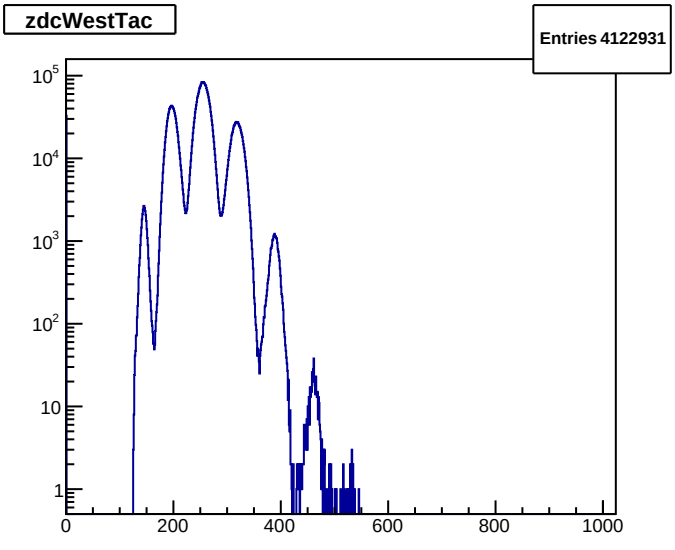

vpdWestNHitsVsSimu
Entries 0
16
14
12
10
8
6
4
2
0
0 2 4 6 8 10 12 14 16

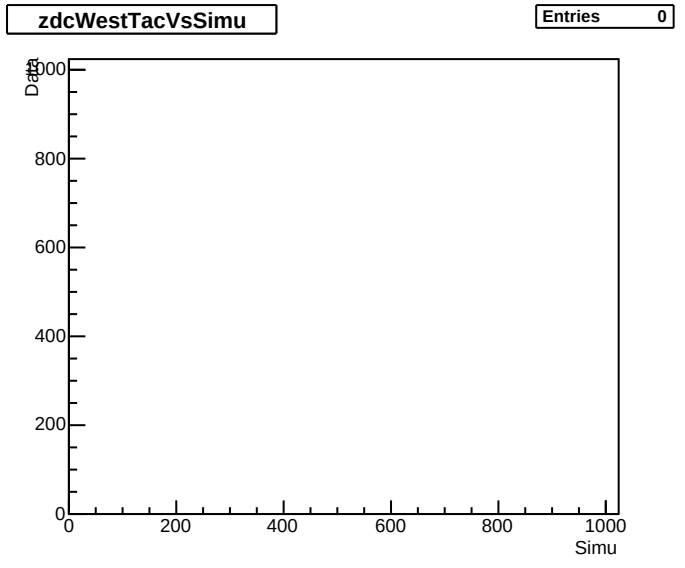

vpdWestTacSum
Entries 4122931
10^4
10^3
10^2
10
1
0 10000 20000 30000 40000 50000 60000

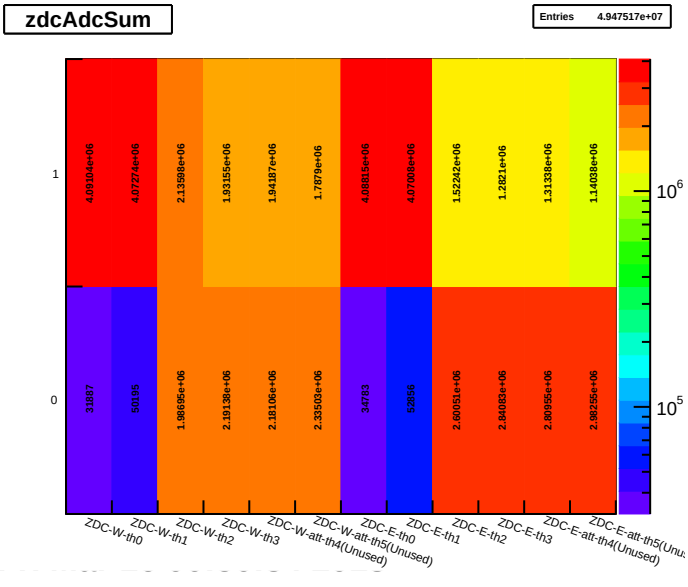

vpdWestTacSumVsSimu
Entries 0
Data
60000
50000
40000
30000
20000
10000
0
0 10000 20000 30000 40000 50000 60000
Simu

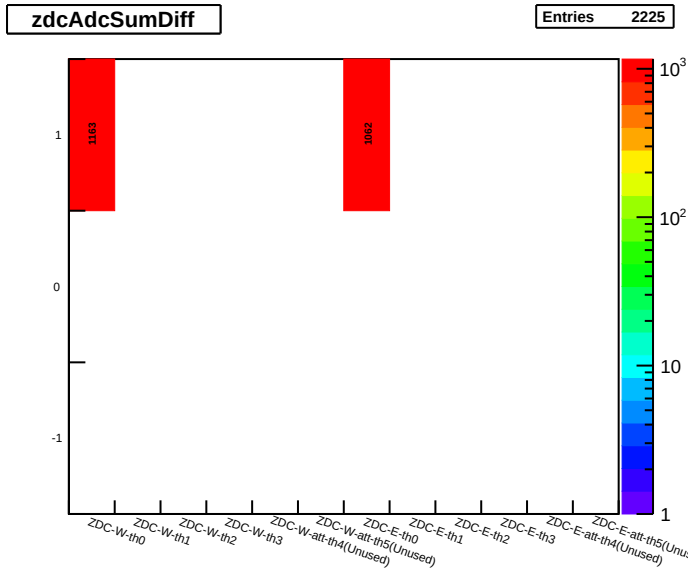

zdcEastTac
Entries 4122931

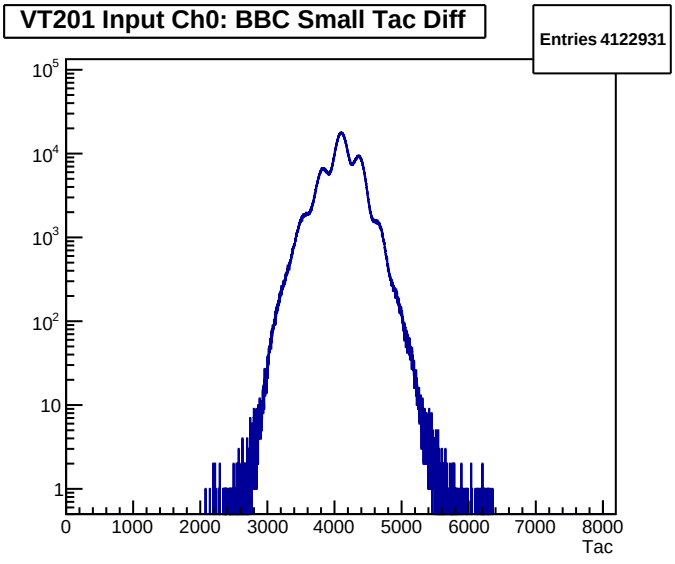

zdcEastTacVsSimu
Entries 10
Data
Simu

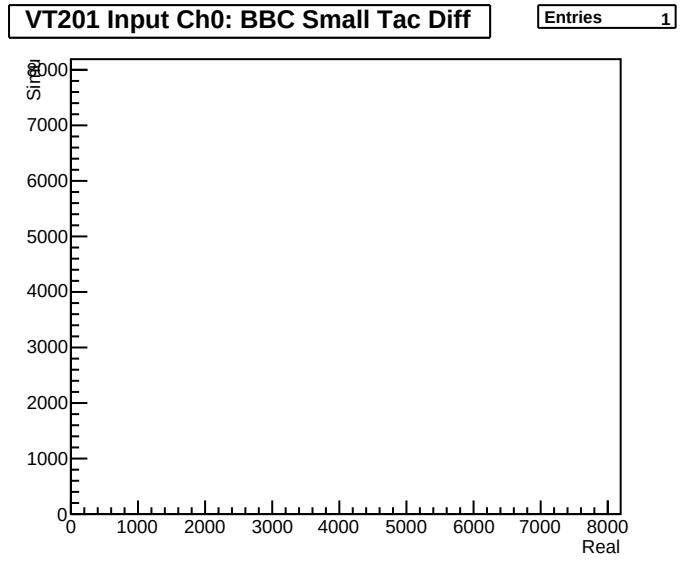

zdcWestTac
Entries 4122931

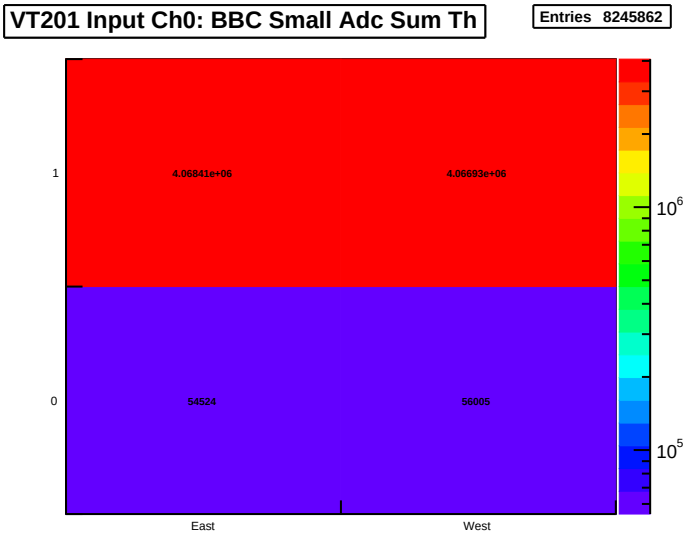

zdcWestTacVsSimu
Entries 0
Data
Simu

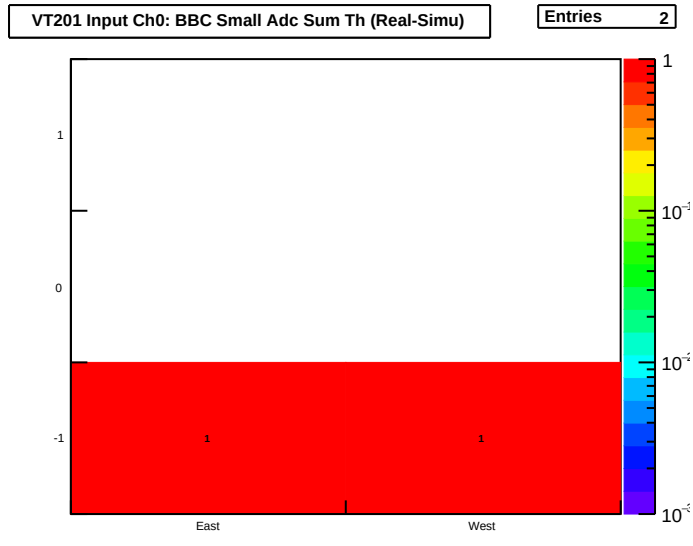

zdcAdcSum
Entries 4.947517e+07
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

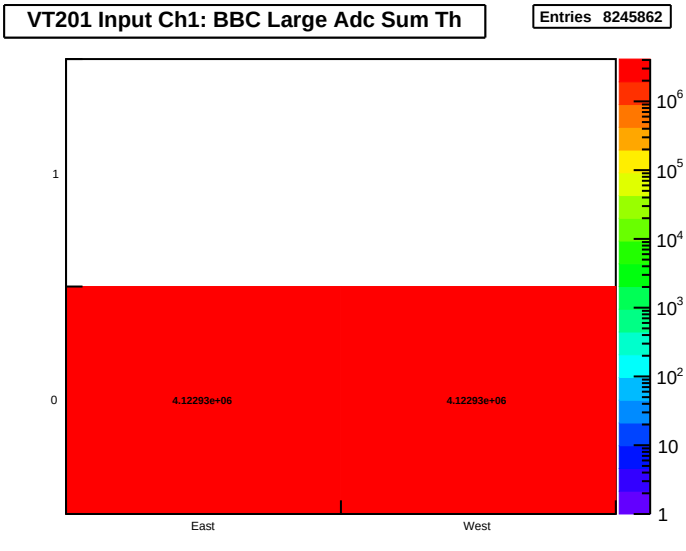

zdcAdcSumDiff
Entries 2225
1163
1062
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

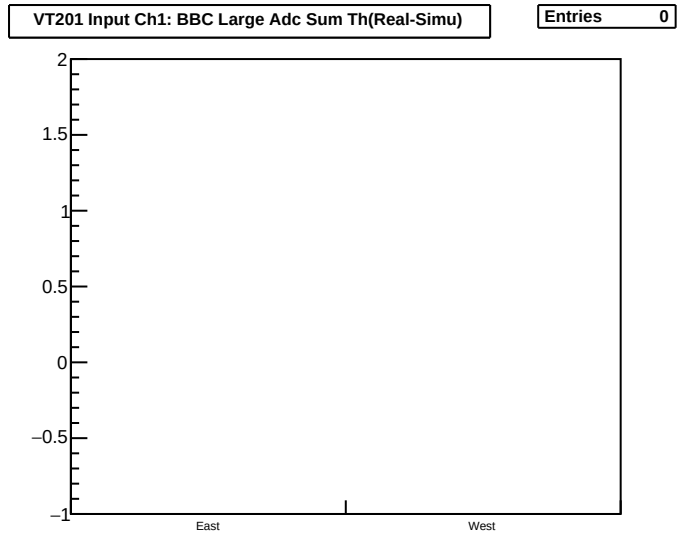

VT201 Input Ch0: BBC Small Tac Diff
Entries 4122931
Tac

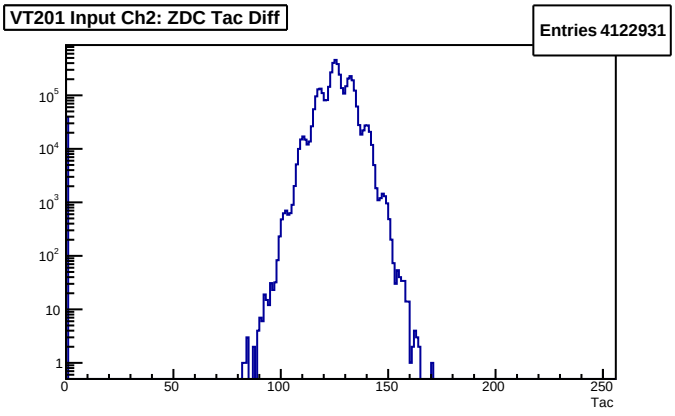

VT201 Input Ch0: BBC Small Tac Diff
Entries 1
Simu
Real

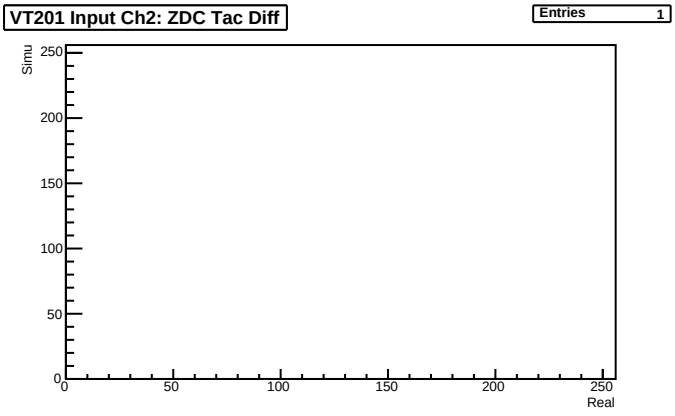

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 8245862
4.06841e+06
4.06693e+06
54524
56005
East
West

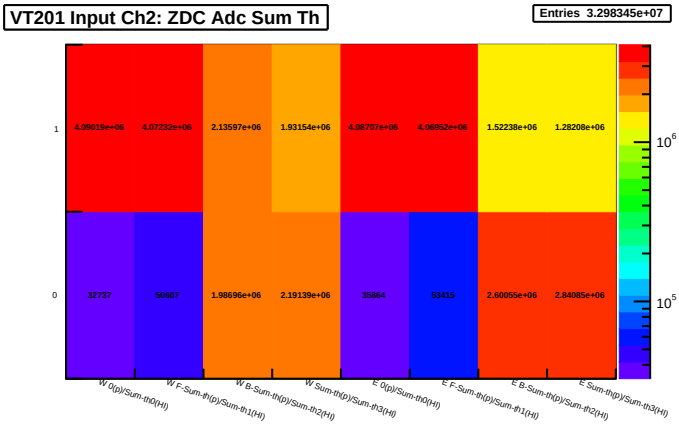

VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 2
1
1
East
West

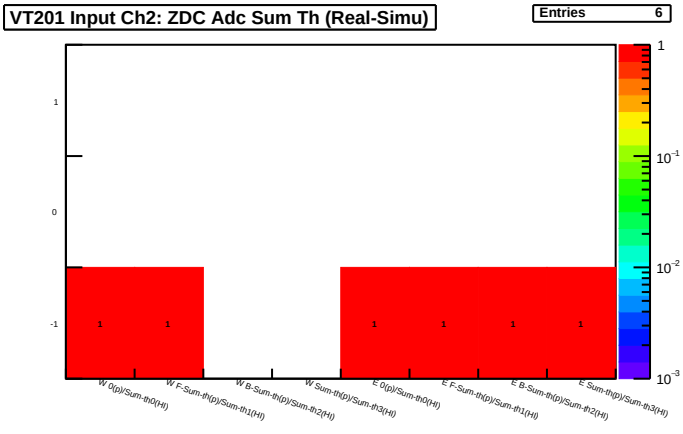

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 8245862
4.12293e+06
4.12293e+06
East
West

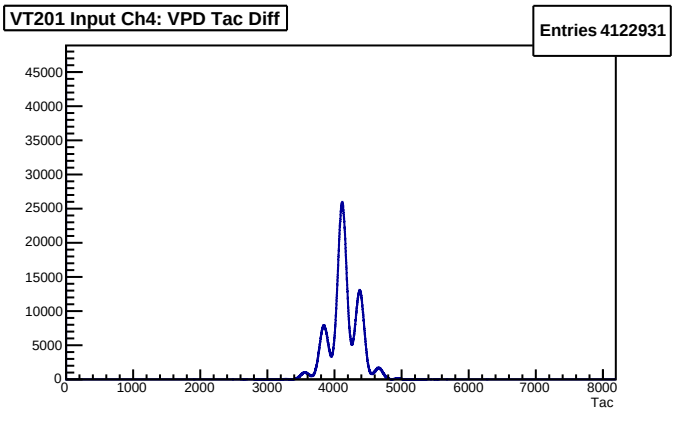

VT201 Input Ch1: BBC Large Adc Sum Th(Real-Simu)
Entries 0
East
West

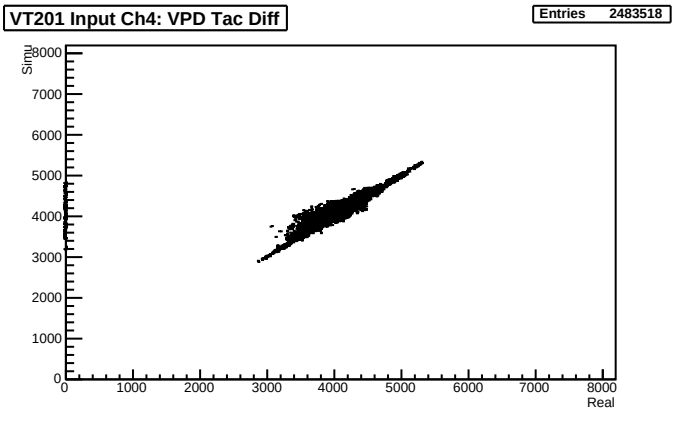

VT201 Input Ch2: ZDC Tac Diff
Entries 4122931
Tac

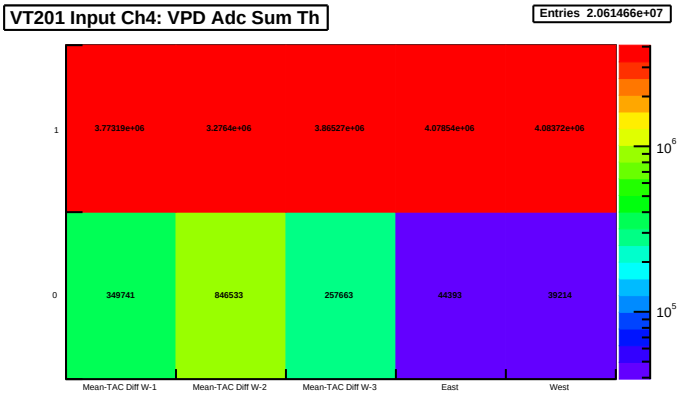

VT201 Input Ch2: ZDC Tac Diff
Entries 1
Simu
Real

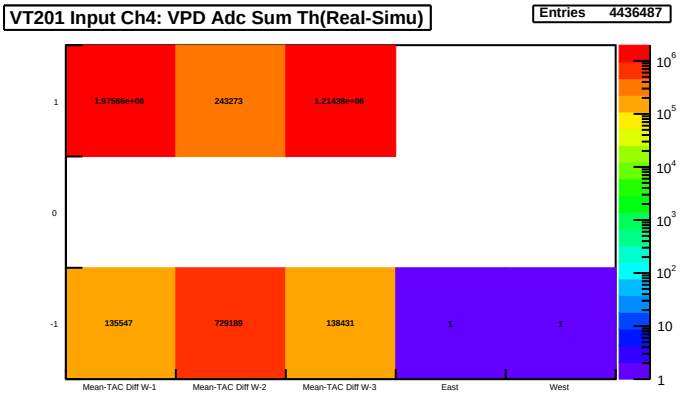

VT201 Input Ch2: ZDC Adc Sum Th
Entries 3.298345e+07
4.09019e+06
4.07232e+06
2.13597e+06
1.93154e+06
4.08707e+06
4.06952e+06
1.52238e+06
1.28208e+06
32737
50607
1.98696e+06
2.19139e+06
35864
53415
2.60055e+06
2.84085e+06
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
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)

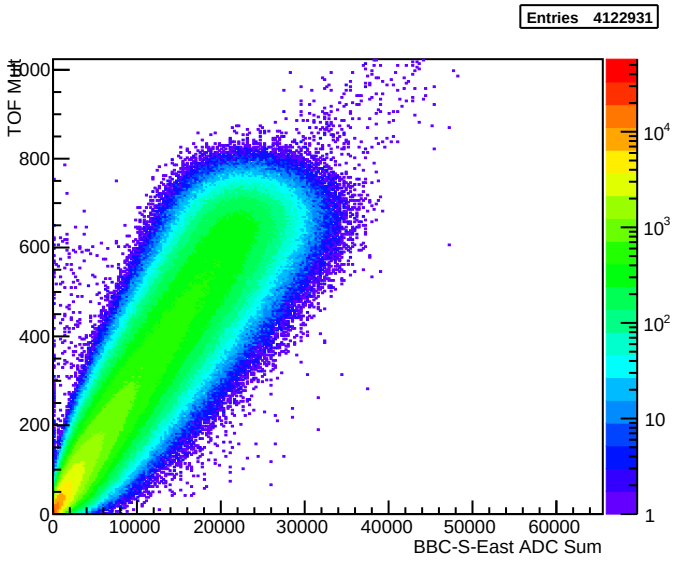

VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)
Entries 6
W 0(p)/Sum-th0(Hl)
W F-Sum-th(p)/Sum-th1(Hl)
W B-Sum-th(p)/Sum-th2(Hl)
W Sum-th(p)/Sum-th3(Hl)
E 0(p)/Sum-th0(Hl)
E F-Sum-th(p)/Sum-th1(Hl)
E B-Sum-th(p)/Sum-th2(Hl)
E Sum-th(p)/Sum-th3(Hl)

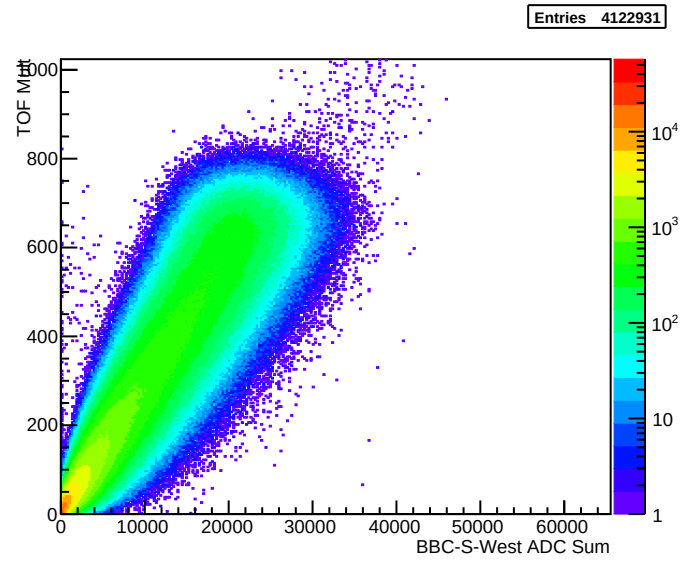

VT201 Input Ch4: VPD Tac Diff
Entries 4122931
Tac

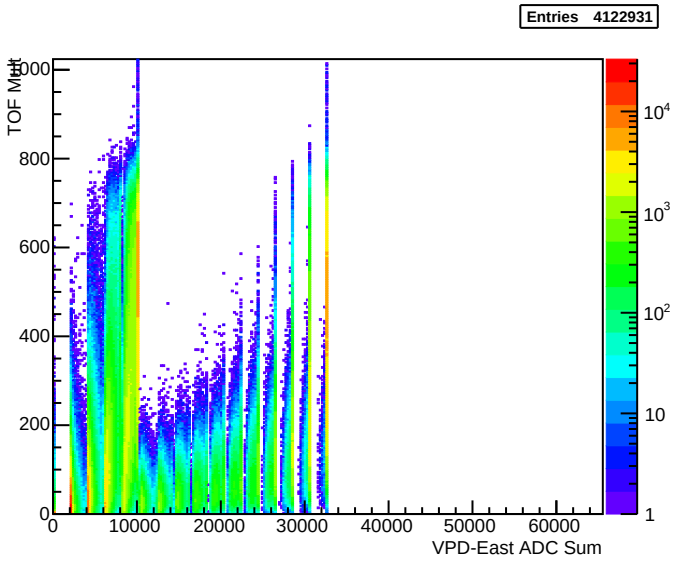

VT201 Input Ch4: VPD Tac Diff
Entries 2483518
Simu
Real

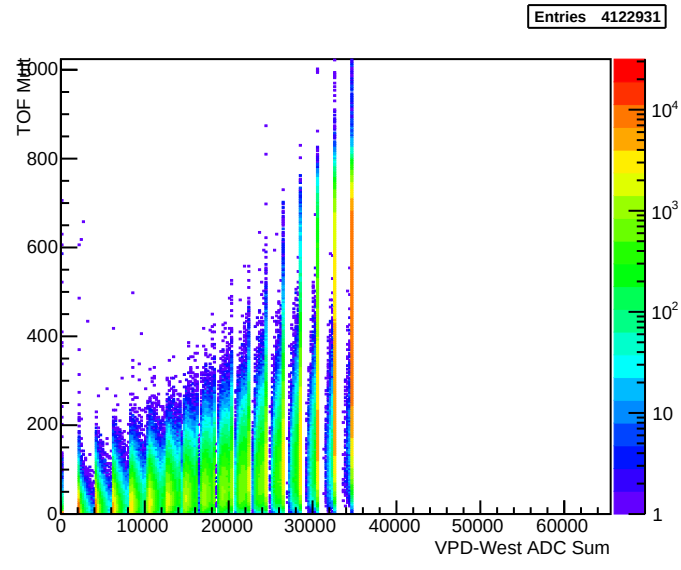

VT201 Input Ch4: VPD Adc Sum Th
Entries 2.061466e+07
3.77319e+06
3.2764e+06
3.86527e+06
4.07854e+06
4.08372e+06
349741
846533
257663
44393
39214
Mean-TAC Diff W-1
Mean-TAC Diff W-2
Mean-TAC Diff W-3
East
West

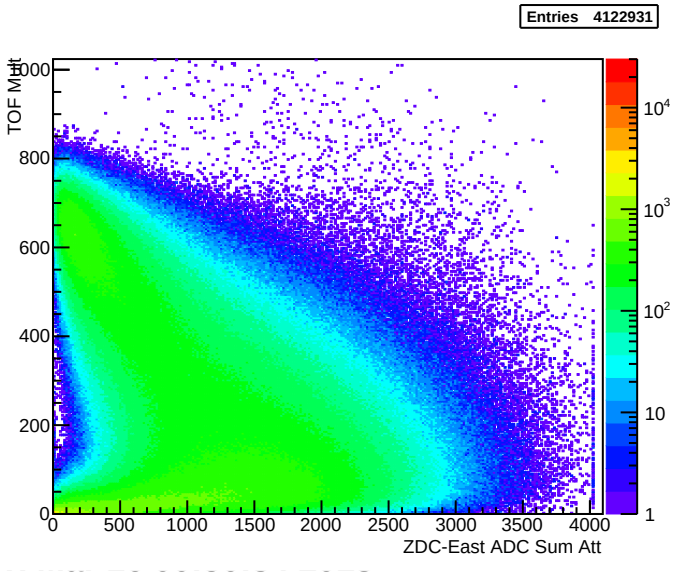

VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)
Entries 4436487
1.97566e+06
243273
1.21438e+06
135547
729189
138431
1
1
Mean-TAC Diff W-1
Mean-TAC Diff W-2
Mean-TAC Diff W-3
East
West

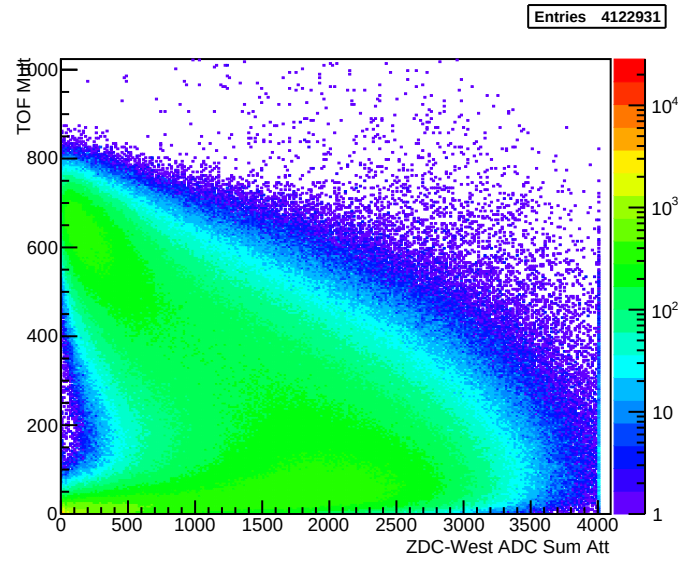

Entries 4122931
TOF Mult
BBC-S-East ADC Sum

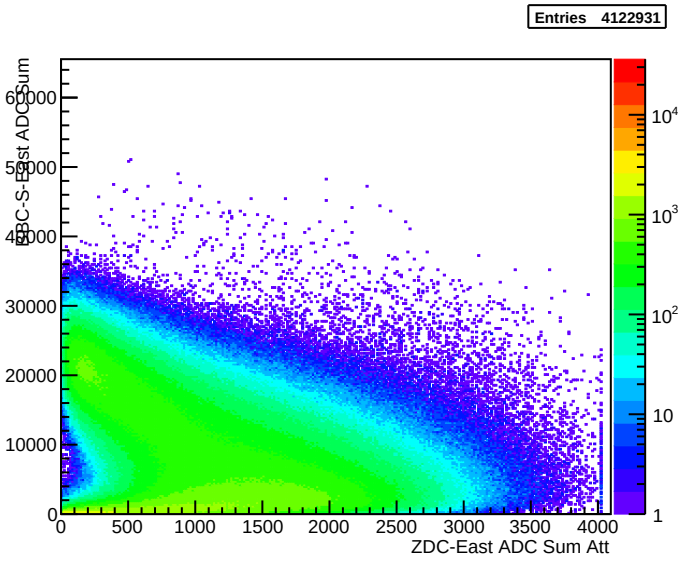

Entries 4122931
TOF Mult
BBC-S-West ADC Sum

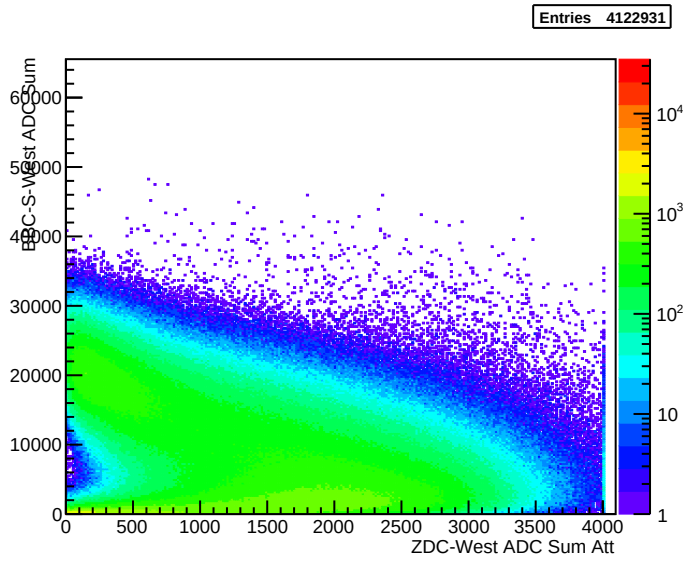

Entries 4122931
TOF Mult
VPD-East ADC Sum

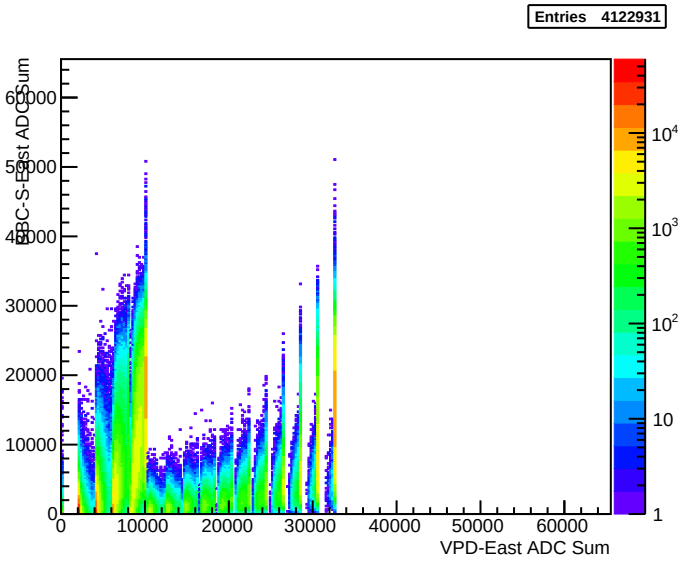

Entries 4122931
TOF Mult
VPD-West ADC Sum

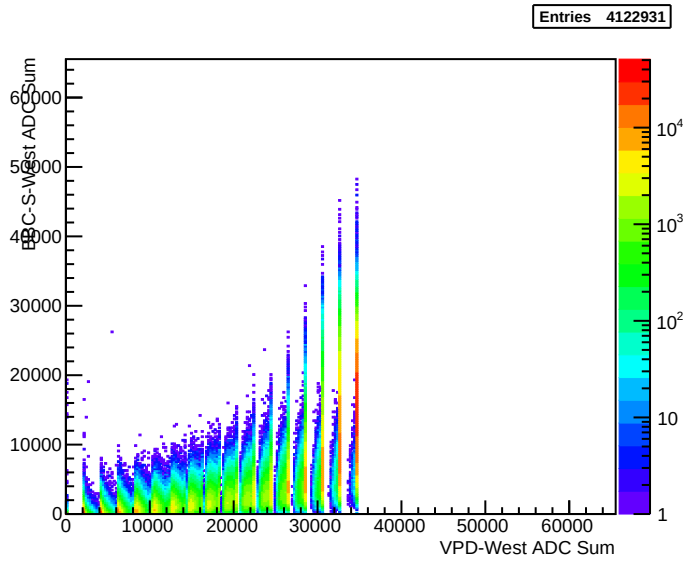

Entries 4122931
TOF Mult
ZDC-East ADC Sum Att

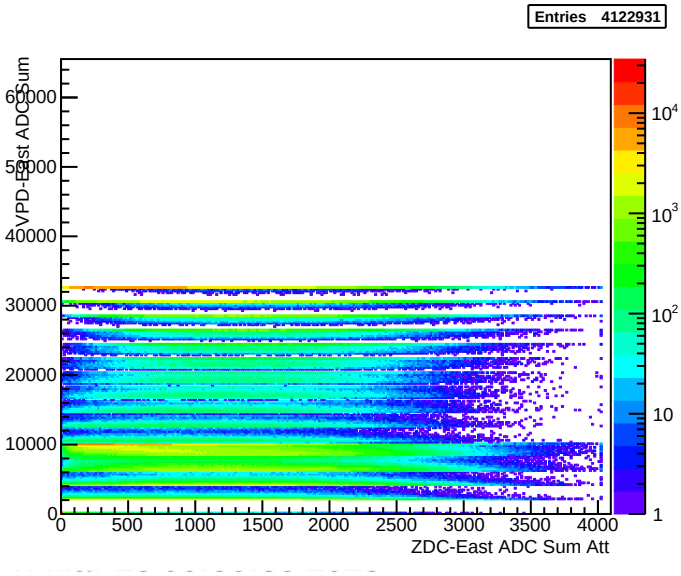

Entries 4122931
TOF Mult
ZDC-West ADC Sum Att

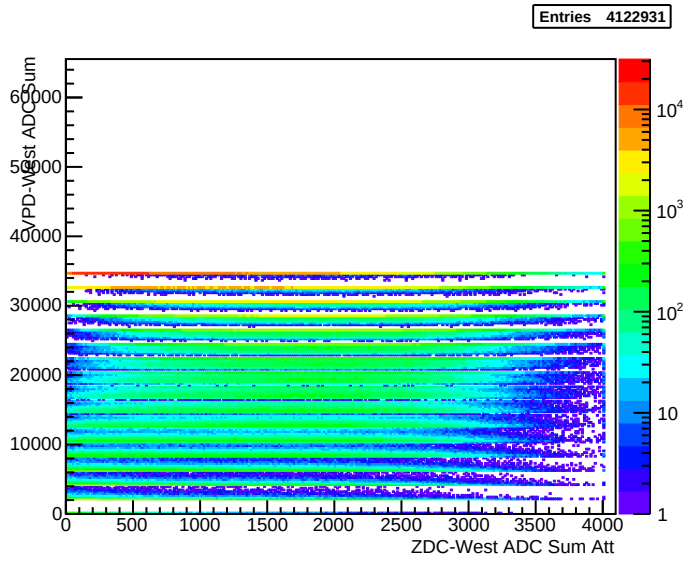

Entries 4122931
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

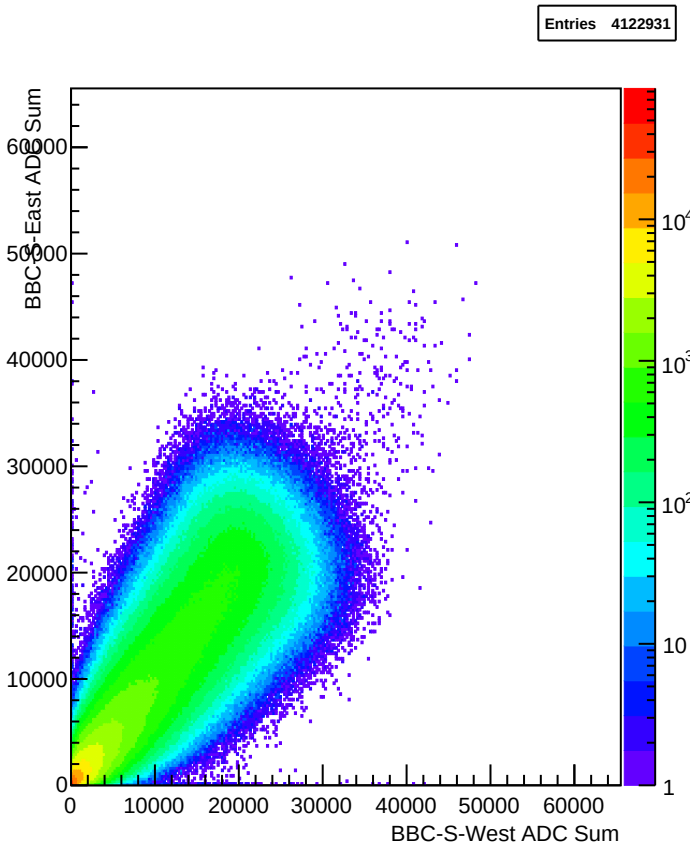

Entries 4122931
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

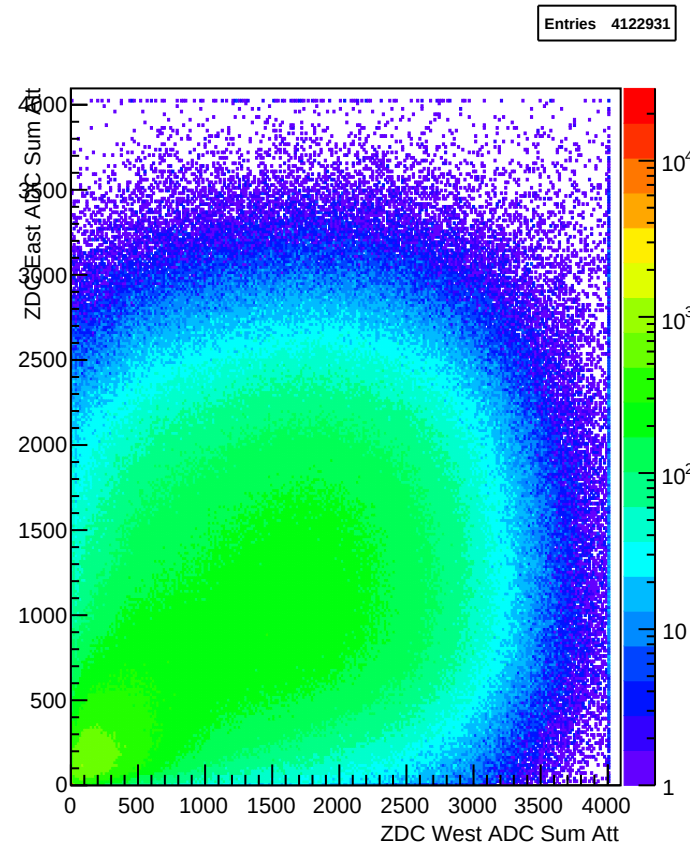

Entries 4122931
BBC-S-East ADC Sum
VPD-East ADC Sum

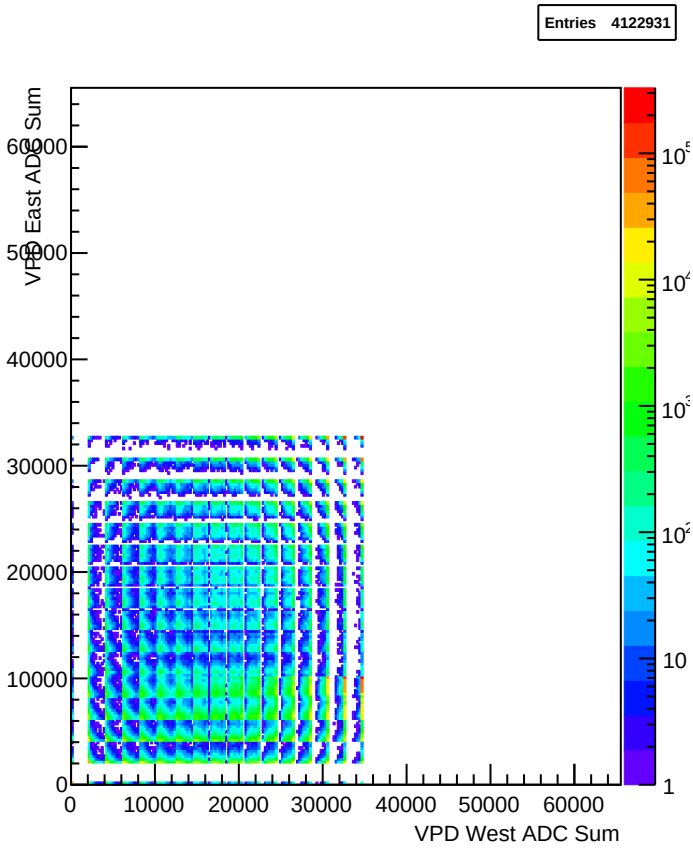

Entries 4122931
BBC-S-West ADC Sum
VPD-West ADC Sum

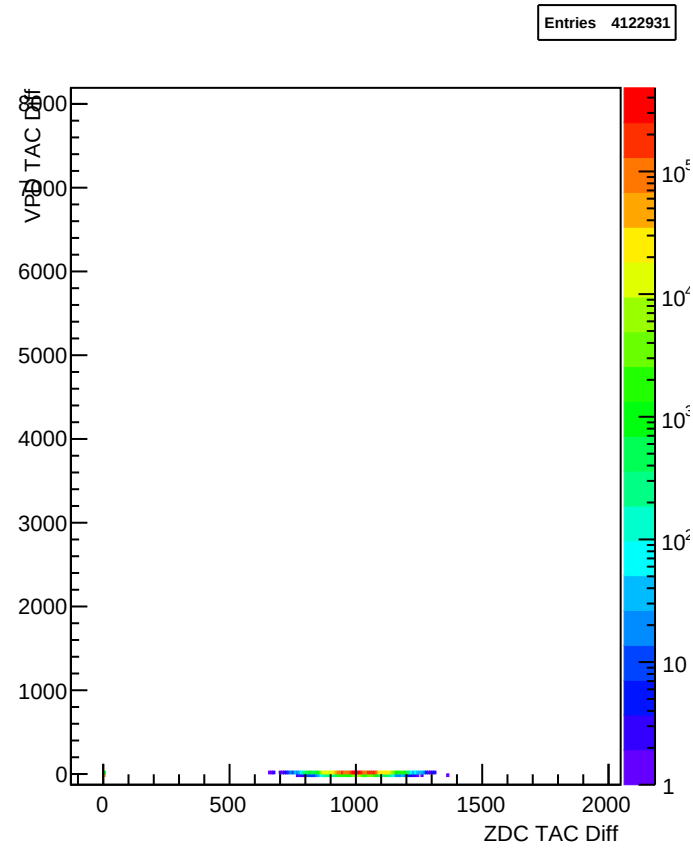

Entries 4122931
VPD-East ADC Sum
ZDC-East ADC Sum Att

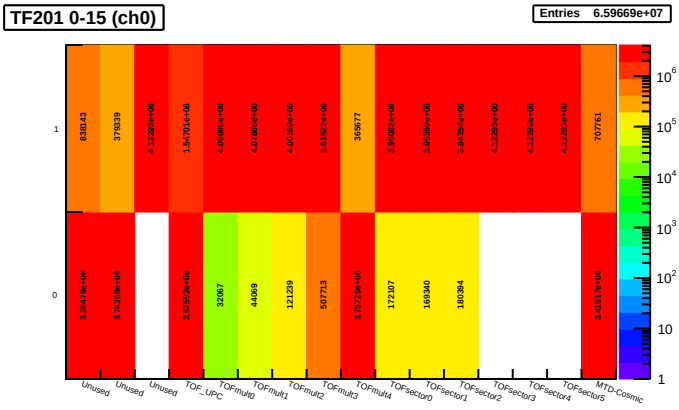

Entries 4122931
VPD-West ADC Sum
ZDC-West ADC Sum Att

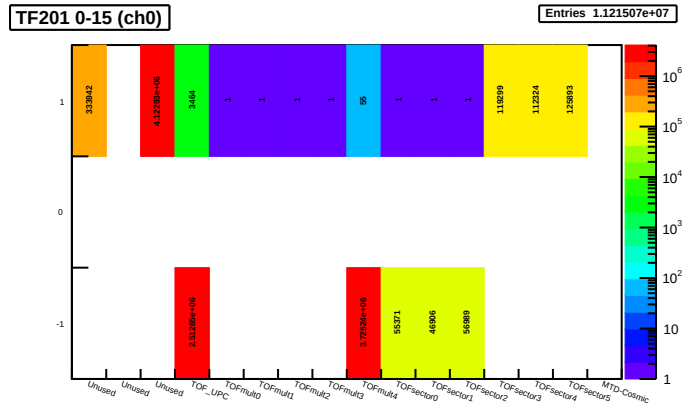

Entries 4122931
BBC-S-East ADC Sum
BBC-S-West ADC Sum

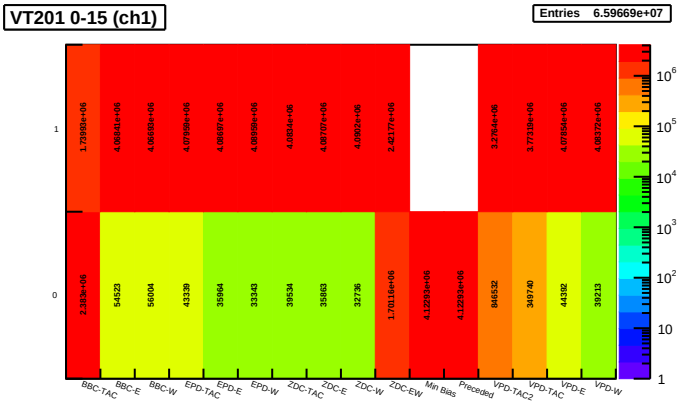

Entries 4122931
ZDC East ADC Sum Att
ZDC West ADC Sum Att

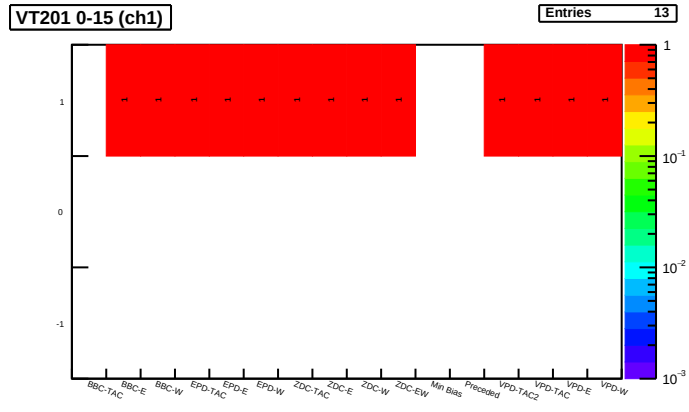

Entries 4122931
VPD East ADC Sum
VPD West ADC Sum

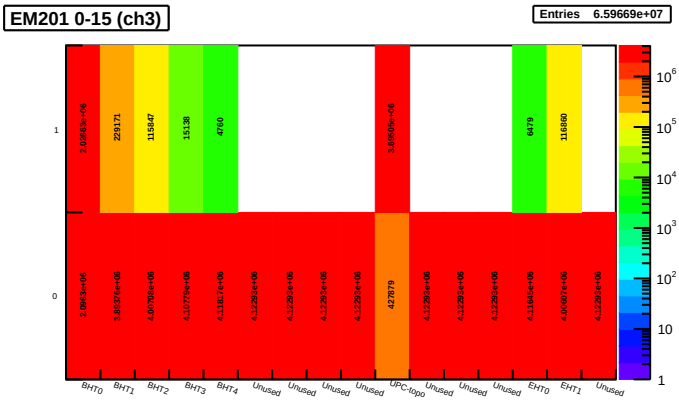

Entries 4122931
VPD TAC Diff
ZDC TAC Diff

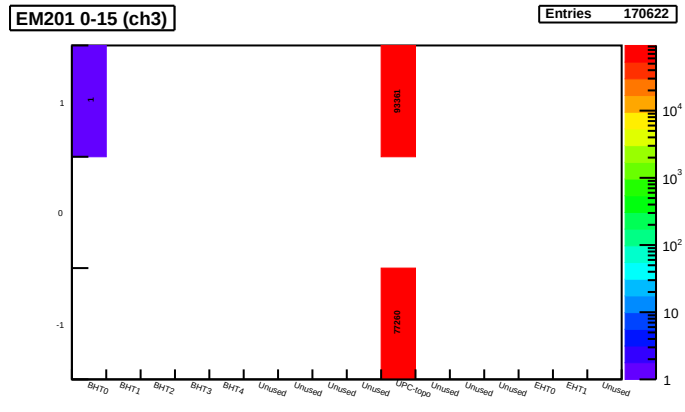

TF201 0-15 (ch0)
Entries 6.59669e+07
838143
379339
4.12293e+06
1.54701e+06
4.09086e+06
4.07885e+06
4.09159e+06
3.61522e+06
369577
3.95862e+06
3.95359e+06
3.94254e+06
4.12293e+06
4.12293e+06
4.12293e+06
707761
3.28479e+06
3.74359e+06
2.57592e+06
32067
44069
121239
507713
3.75725e+06
172107
169340
180394
3.45512e+06
Unused
Unused
Unused
TOF_UPC
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic

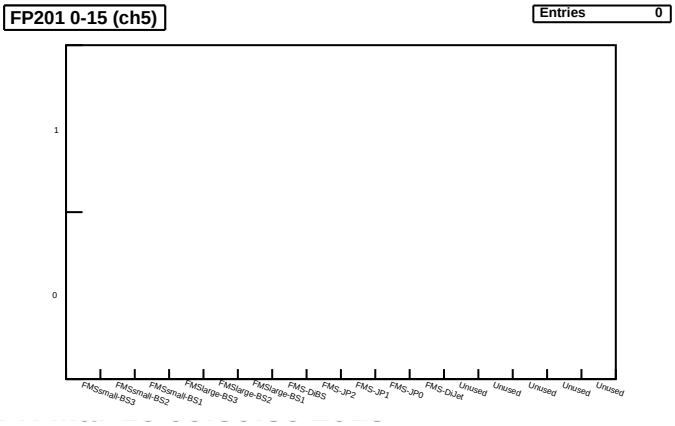

TF201 0-15 (ch0)
Entries 1.121507e+07
333942
4.12293e+06
3464
1
1
1
1
55
1
1
1
119299
112224
125993
2.51285e+06
3.72324e+06
55371
46906
56989
Unused
Unused
Unused
TOF_UPC
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic

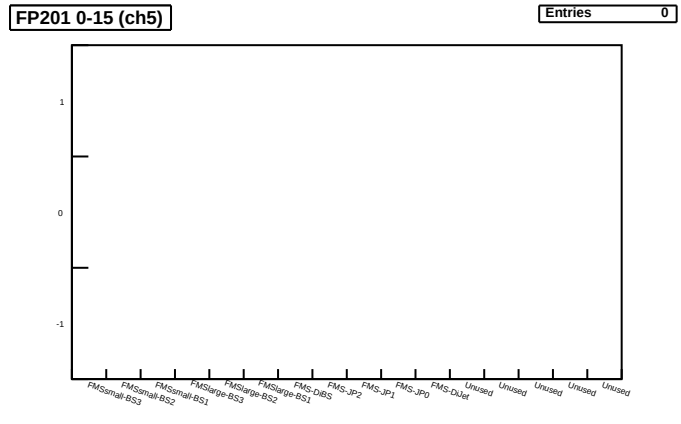

VT201 0-15 (ch1)
Entries 6.59669e+07
1.73958e+06
4.06541e+06
4.06603e+06
4.07959e+06
4.08007e+06
4.08959e+06
4.0824e+06
4.08707e+06
4.09924e+06
2.42177e+06
3.27454e+06
3.77319e+06
4.07854e+06
4.08372e+06
2.353e+06
54523
56094
43339
35964
33343
39534
35863
32736
1.70116e+06
4.12293e+06
4.12293e+06
846532
349740
44392
39213
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-EW
Min Bias
Preceded
VPD-TAC2
VPD-TAC
VPD-E
VPD-W


VT201 0-15 (ch1)
Entries 13
1
1
1
1
1
1
1
1
1
1
1
1
1
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-EW
Min Bias
Preceded
VPD-TAC2
VPD-TAC
VPD-E
VPD-W


EM201 0-15 (ch3)
Entries 6.59669e+07
2.026538e+06
229171
115847
15130
4760
3.685058e+06
6479
116860
2.09638e+06
3.93376e+06
4.00788e+06
4.10779e+06
4.11817e+06
4.12293e+06
4.12293e+06
4.12293e+06
4.12293e+06
427879
4.12293e+06
4.12293e+06
4.12293e+06
4.11645e+06
4.00607e+06
4.12293e+06
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused


EM201 0-15 (ch3)
Entries 170622
1
93361
77260
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused


FP201 0-15 (ch5)
Entries 0
FMSsmall-BS3
FMSsmall-BS2
FMSsmall-BS1
FMSlarge-BS3
FMSlarge-BS2
FMSlarge-BS1
FMS-DiBS
FMS-JP2
FMS-JP1
FMS-JP0
FMS-DiJet
Unused
Unused
Unused
Unused
Unused


FP201 0-15 (ch5)
Entries 0
FMSsmall-BS3
FMSsmall-BS2
FMSsmall-BS1
FMSlarge-BS3
FMSlarge-BS2
FMSlarge-BS1
FMS-DiBS
FMS-JP2
FMS-JP1
FMS-JP0
FMS-DiJet
Unused
Unused
Unused
Unused
Unused