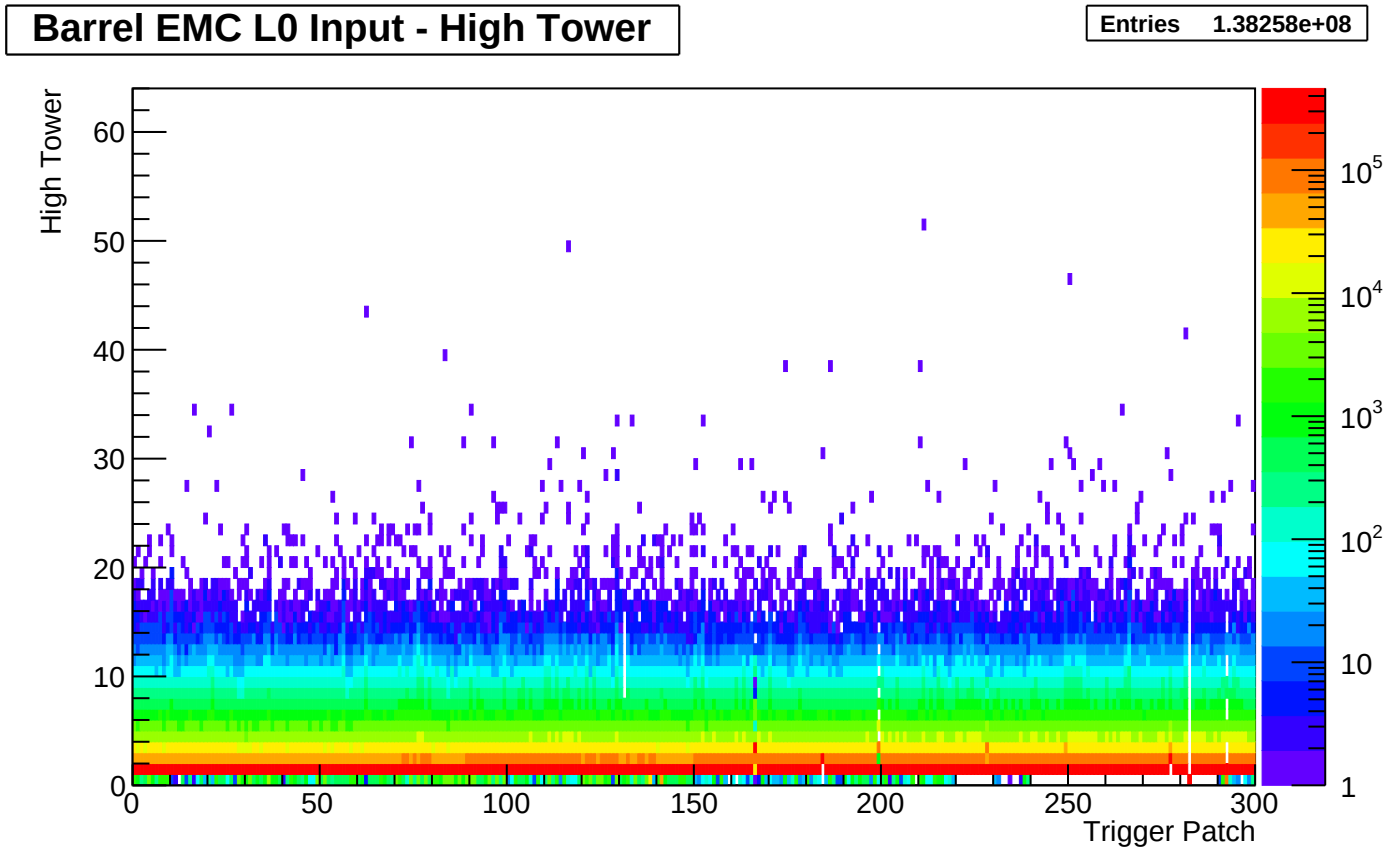
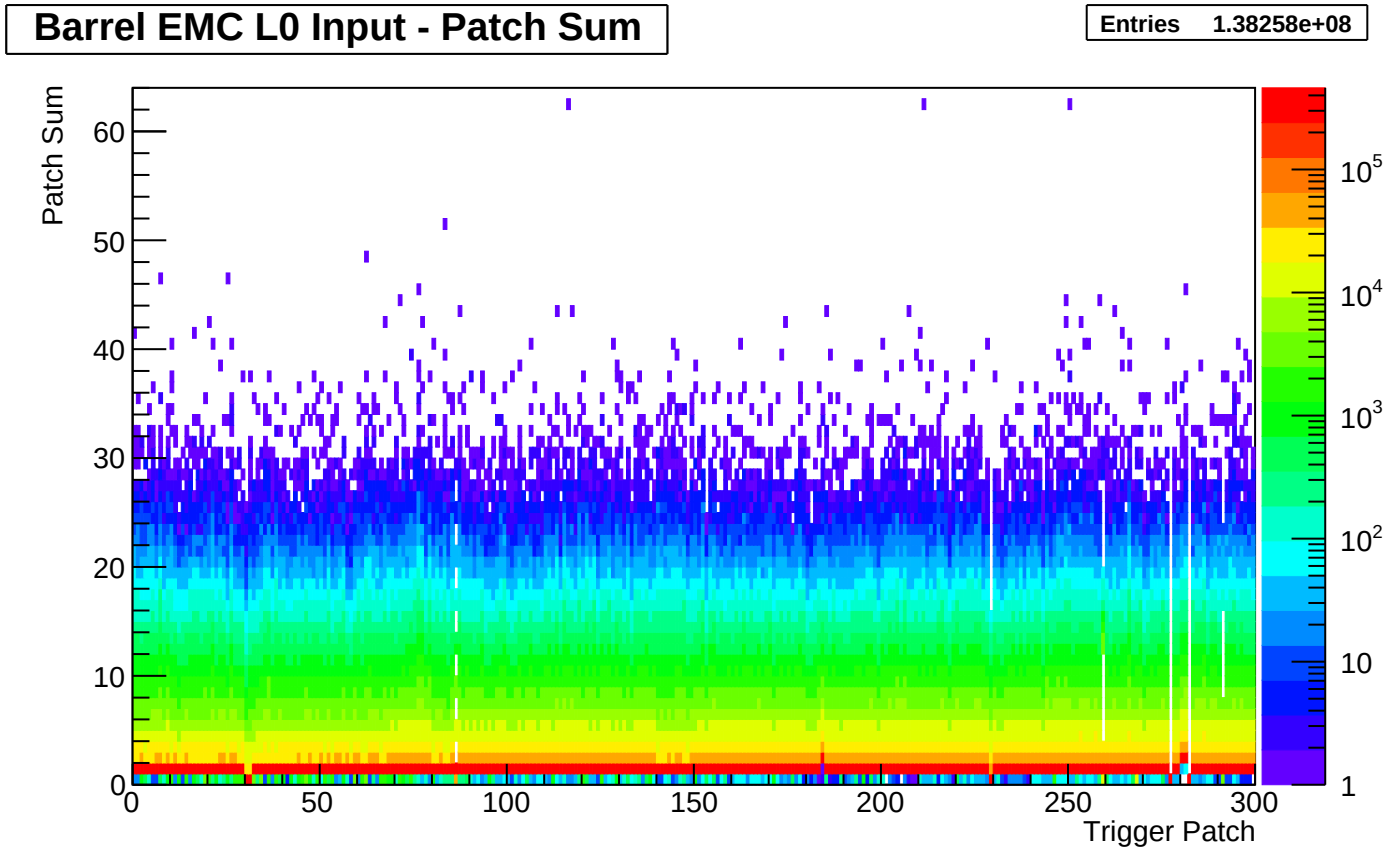
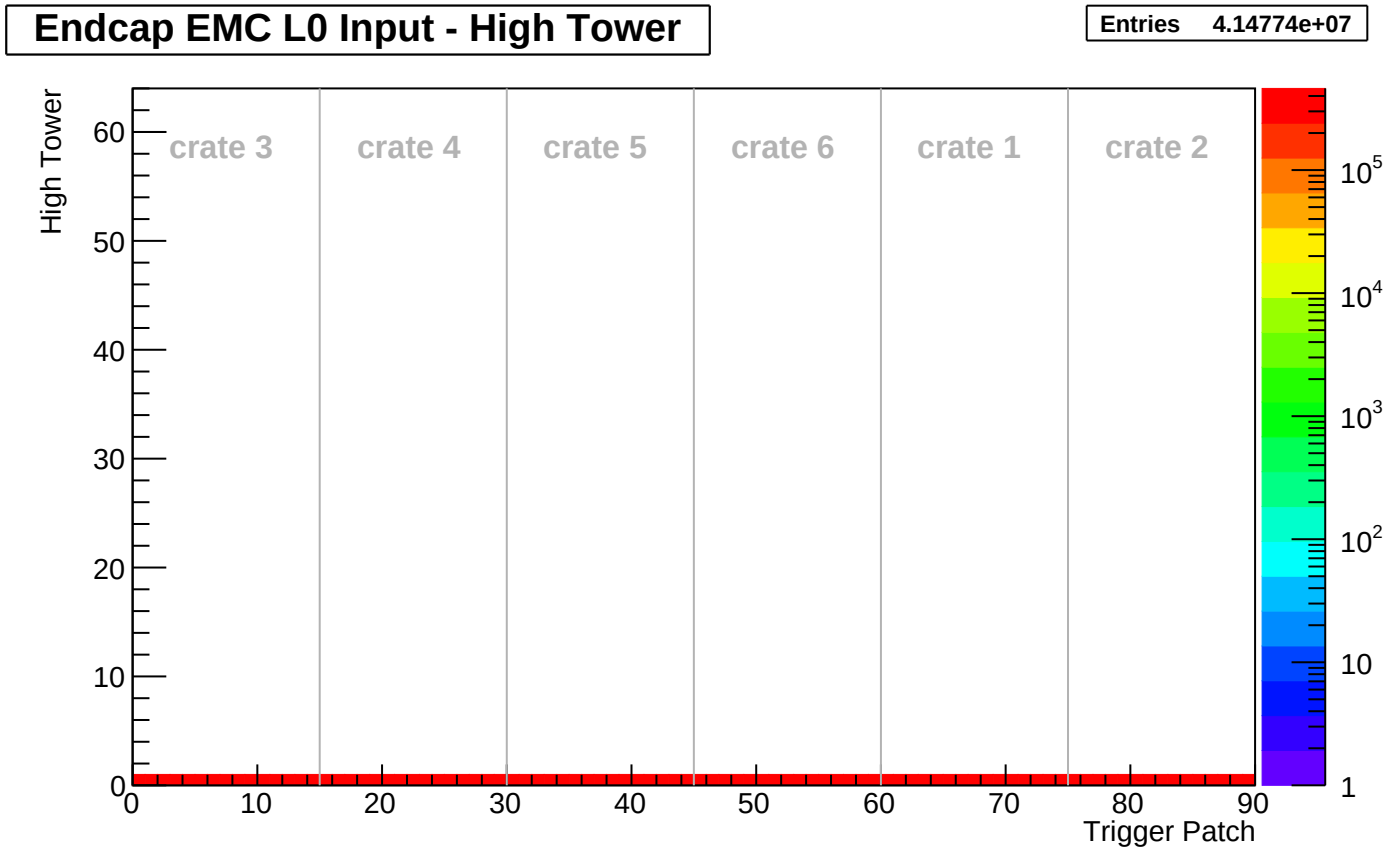
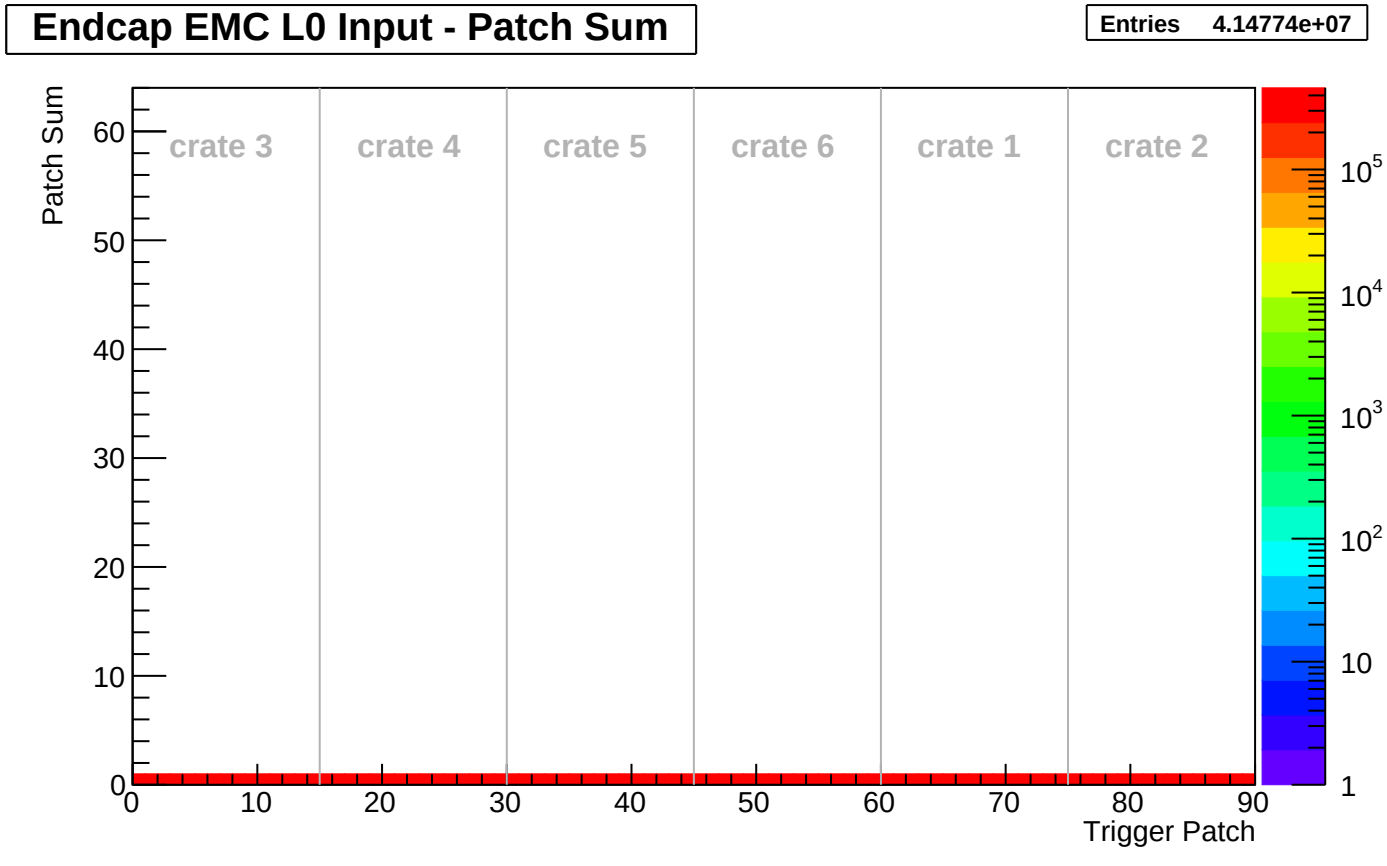
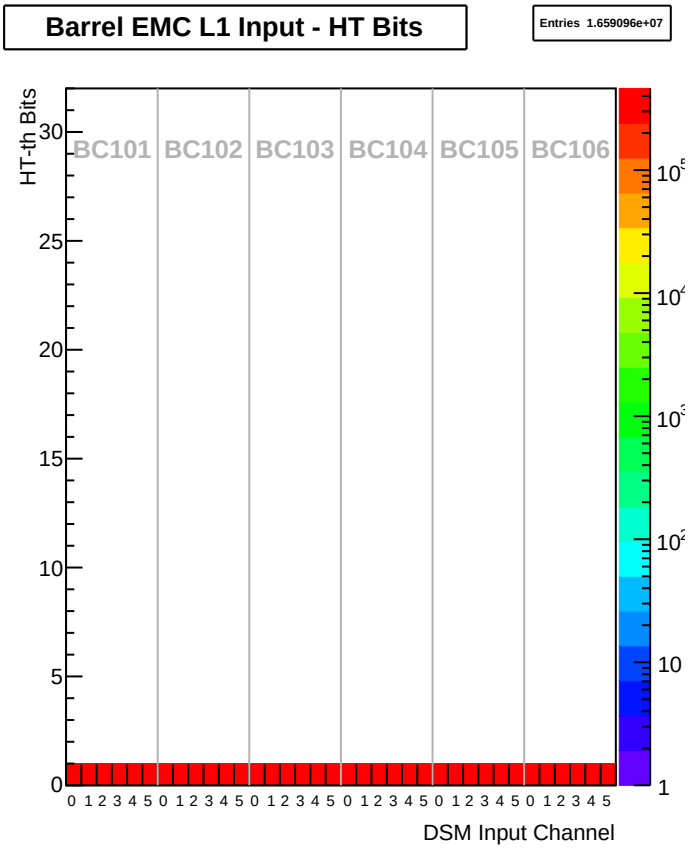
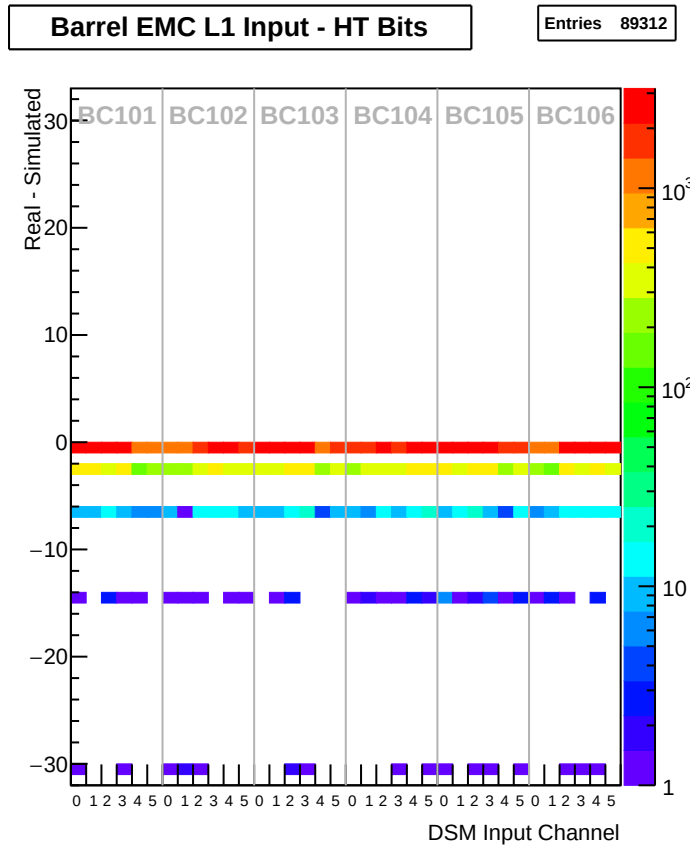

Barrel EMC L0 Input - High Tower
Entries 1.38258e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

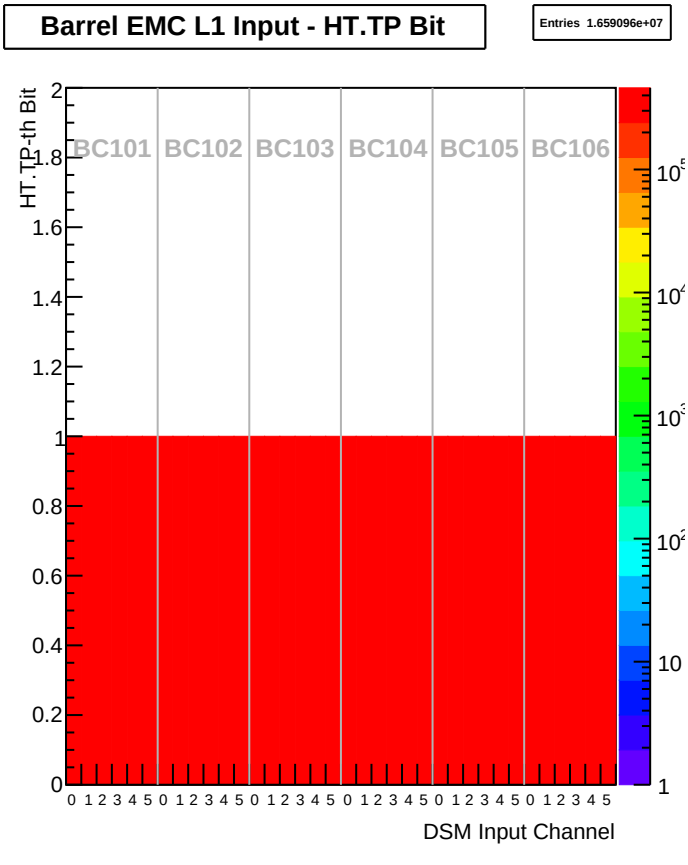

Barrel EMC L0 Input - Patch Sum
Entries 1.38258e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

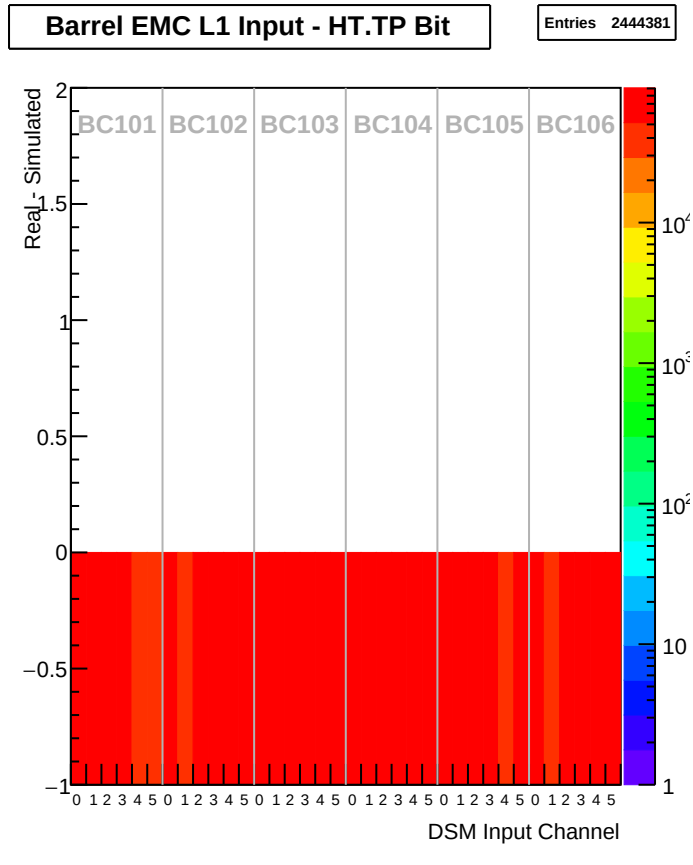

Endcap EMC L0 Input - High Tower
Entries 4.14774e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

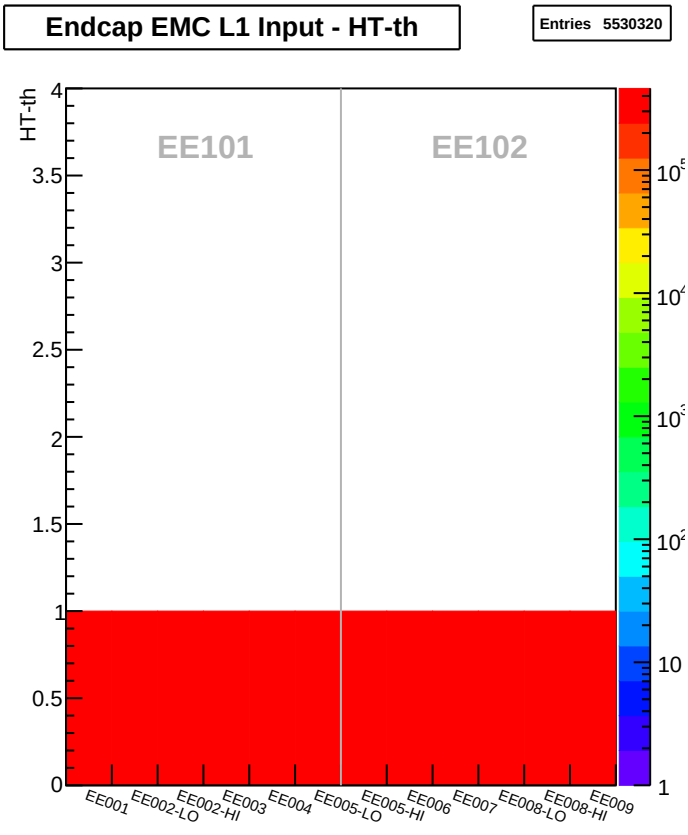

Endcap EMC L0 Input - Patch Sum
Entries 4.14774e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

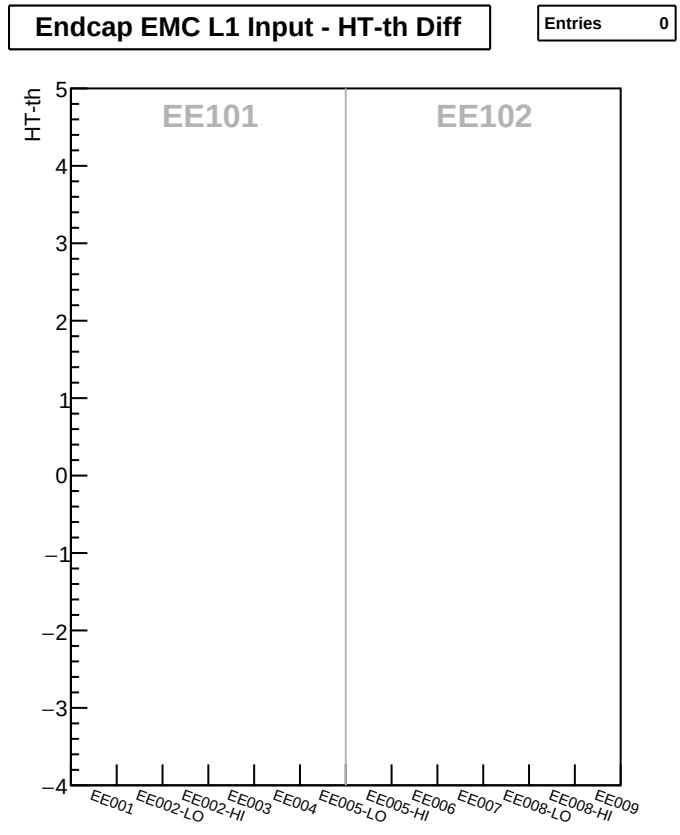

Barrel EMC L1 Input - HT Bits
Entries 1.659096e+07
HT-th Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

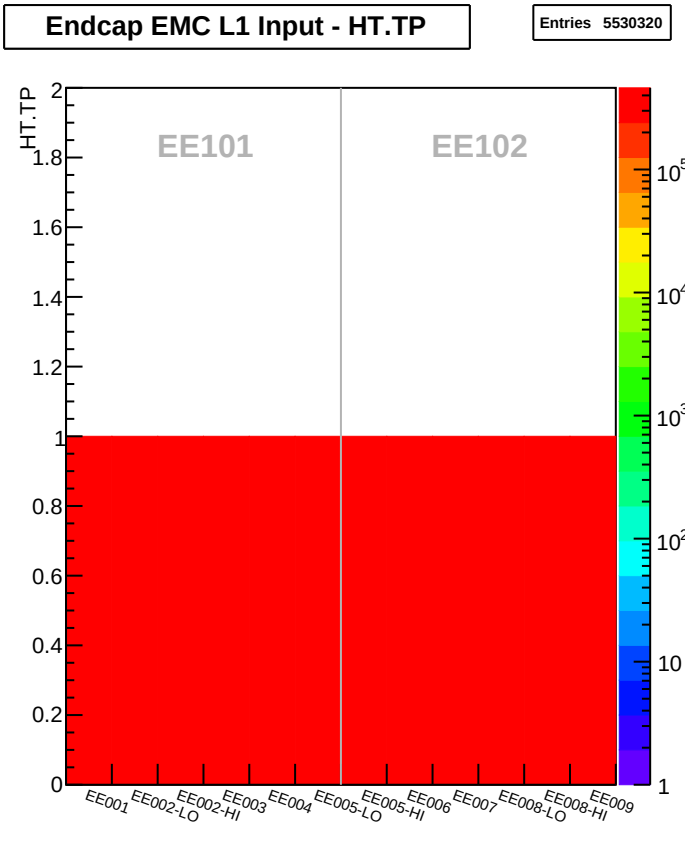

Barrel EMC L1 Input - HT Bits
Entries 89312
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

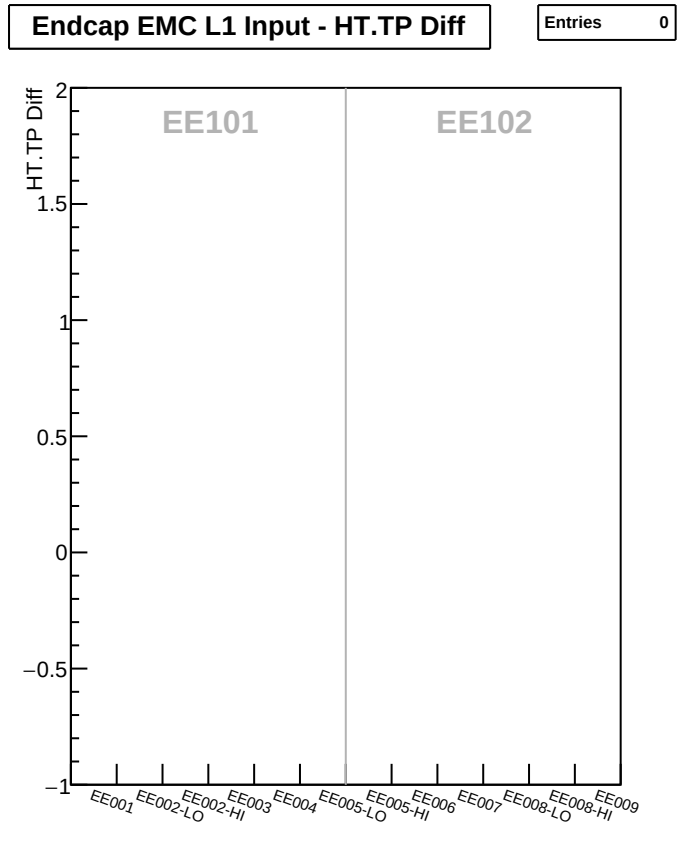

Barrel EMC L1 Input - HT.TP Bit
Entries 1.659096e+07
HT.TP-th Bit
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

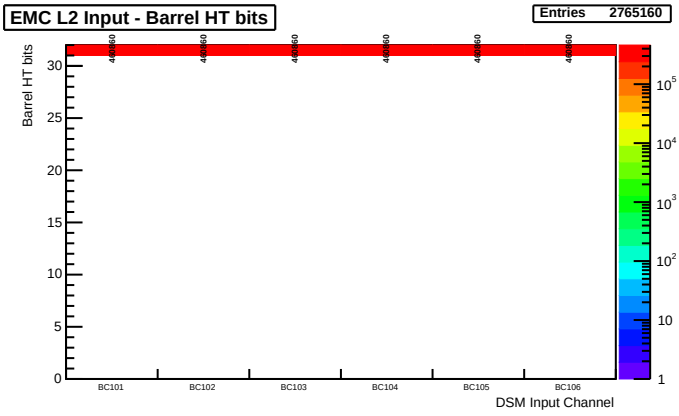

Barrel EMC L1 Input - HT.TP Bit
Entries 2444381
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

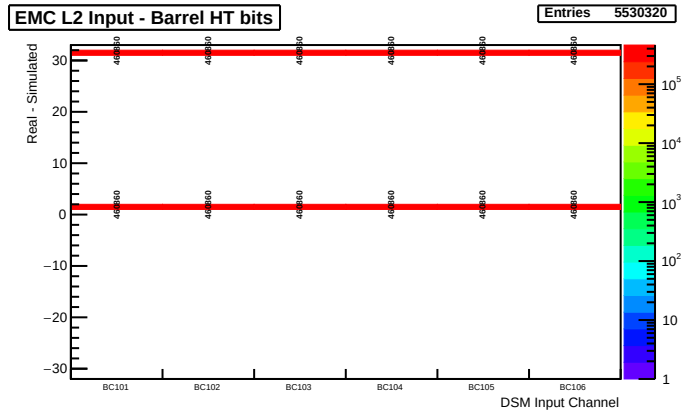

Endcap EMC L1 Input - HT-th
Entries 5530320
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

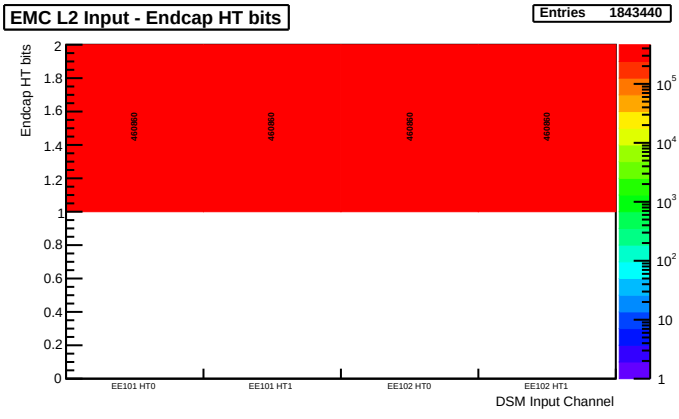

Endcap EMC L1 Input - HT-th Diff
Entries 0
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

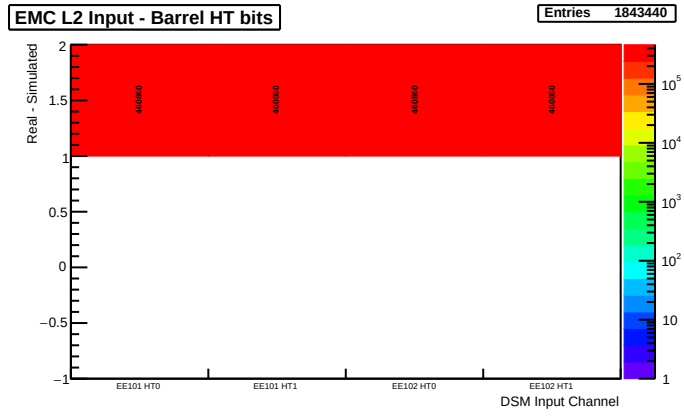

Endcap EMC L1 Input - HT.TP
Entries 5530320
HT.TP
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

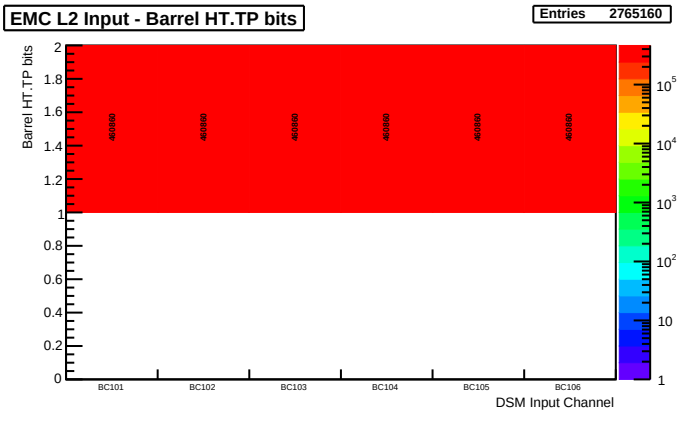

Endcap EMC L1 Input - HT.TP Diff
Entries 0
HT.TP Diff
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

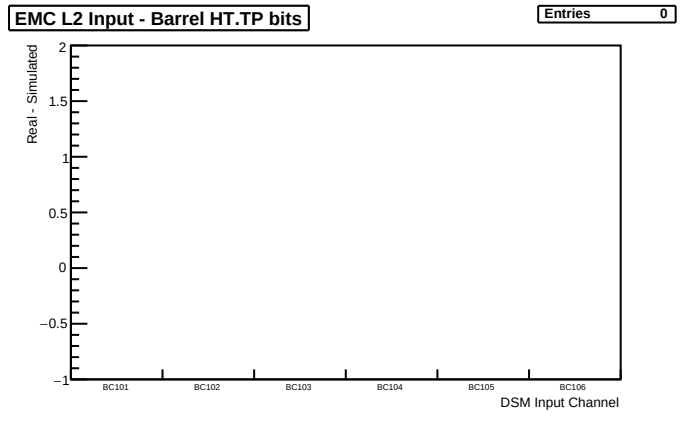

EMC L2 Input - Barrel HT bits
Entries 2765160
Barrel HT bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

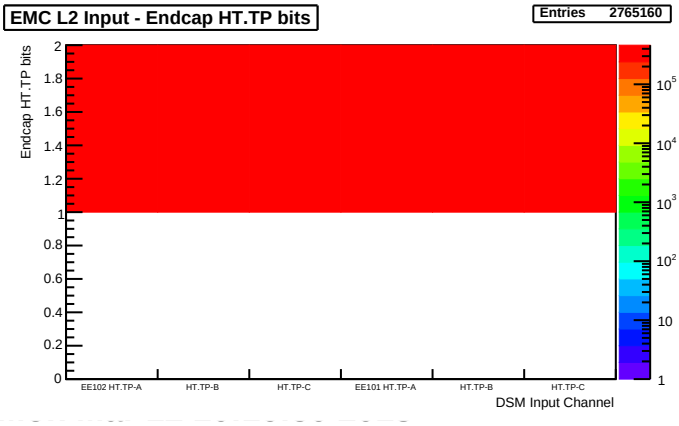

EMC L2 Input - Barrel HT bits
Entries 5530320
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

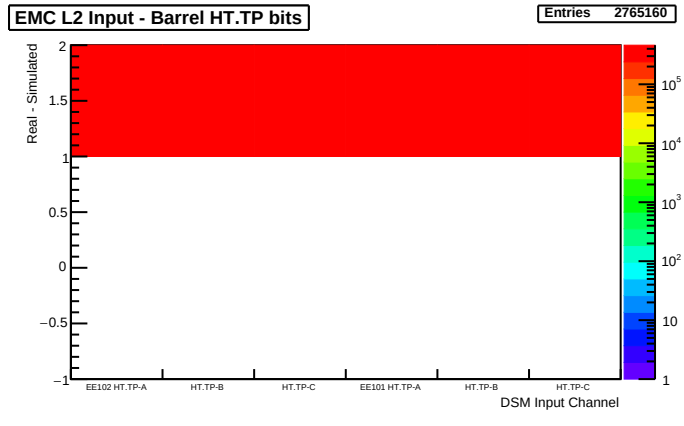

EMC L2 Input - Endcap HT bits
Entries 1843440
Endcap HT bits
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

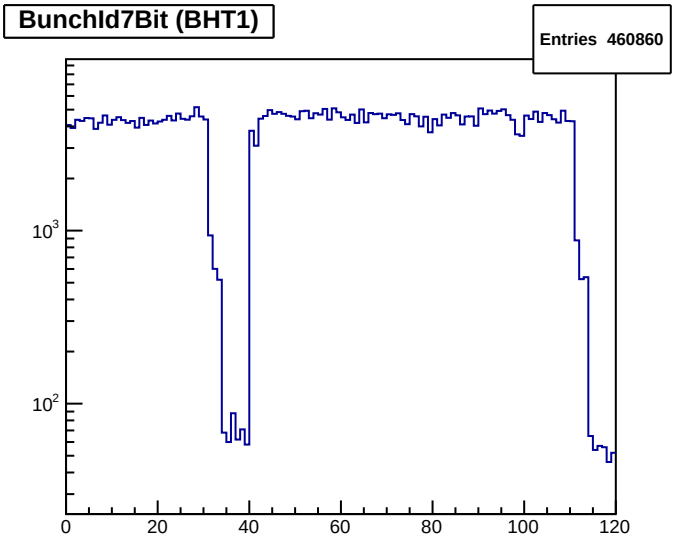

EMC L2 Input - Barrel HT bits
Entries 1843440
Real - Simulated
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

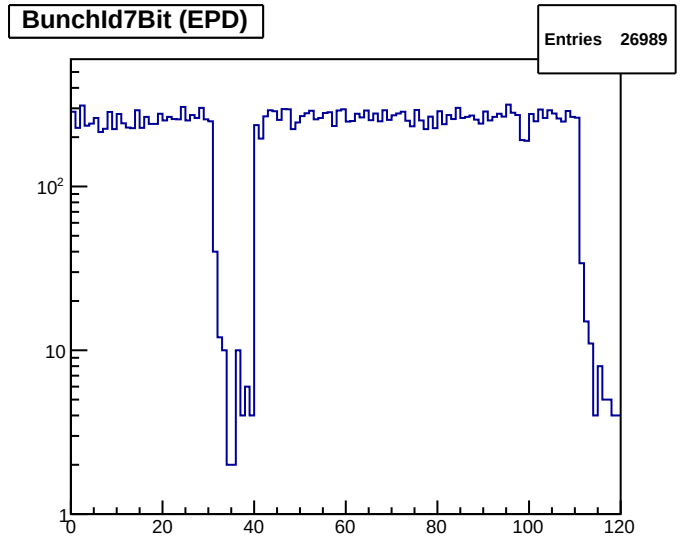

EMC L2 Input - Barrel HT.TP bits
Entries 2765160
Barrel HT.TP bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

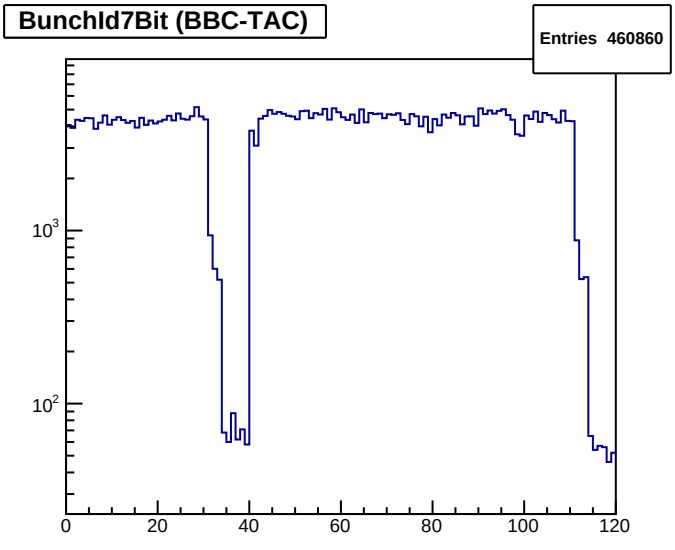

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

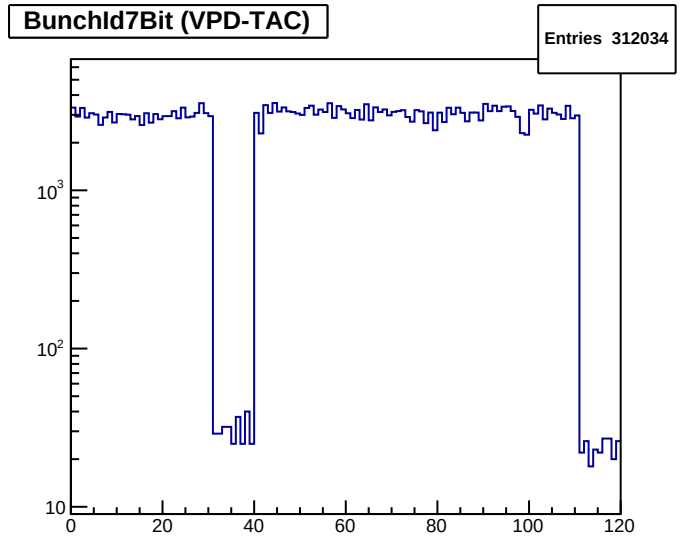

EMC L2 Input - Endcap HT.TP bits
Entries 2765160
Endcap HT.TP bits
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

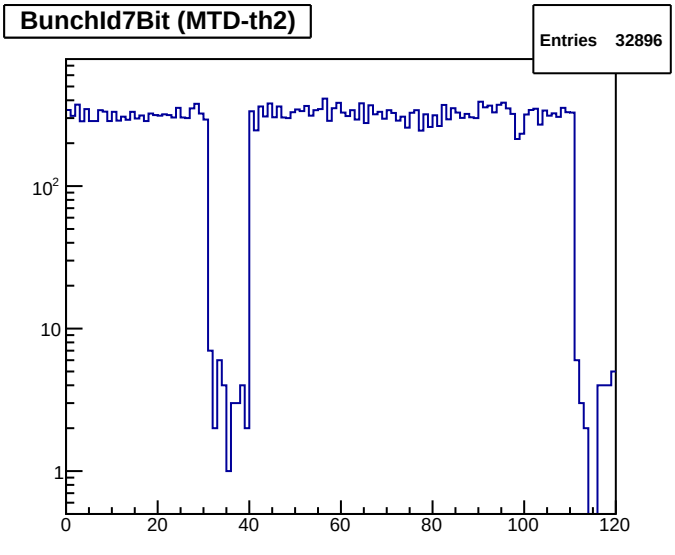

EMC L2 Input - Barrel HT.TP bits
Entries 2765160
Real - Simulated
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

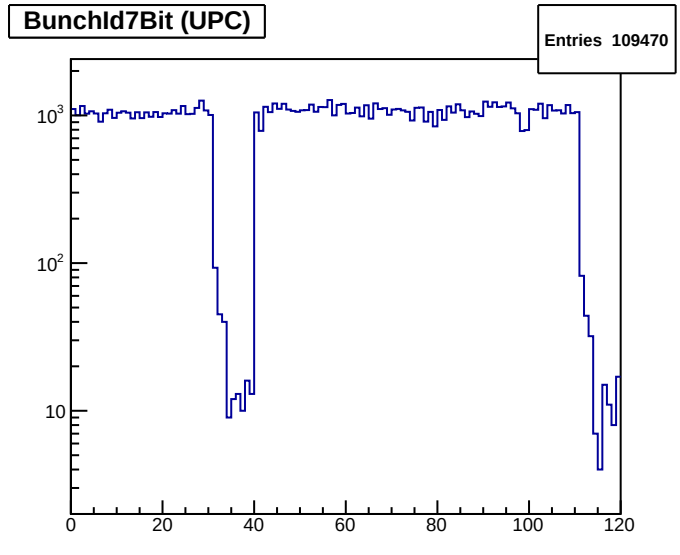

BunchId7Bit (BHT1)
Entries 460860
10^3
10^2
0 20 40 60 80 100 120

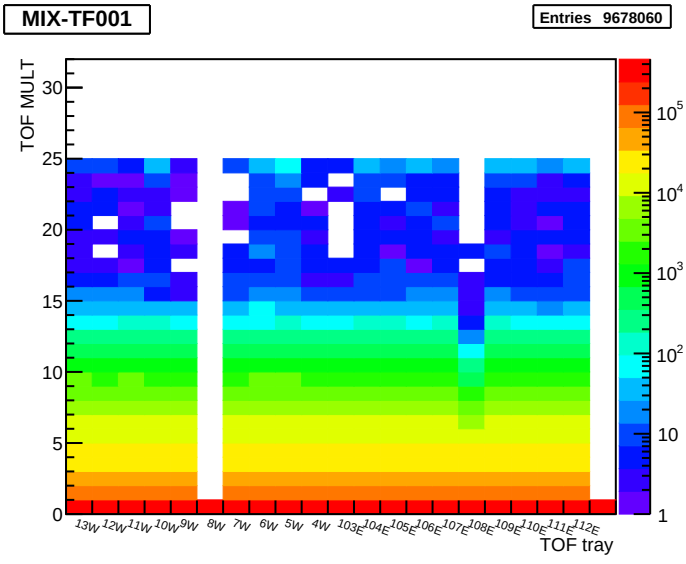

BunchId7Bit (EPD)
Entries 26989
10^2
10
1
0 20 40 60 80 100 120

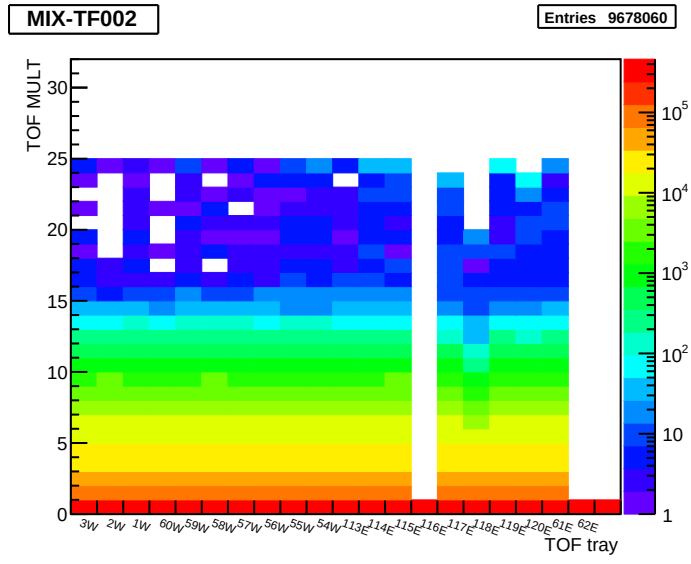

BunchId7Bit (BBC-TAC)
Entries 460860
10^3
10^2
0 20 40 60 80 100 120

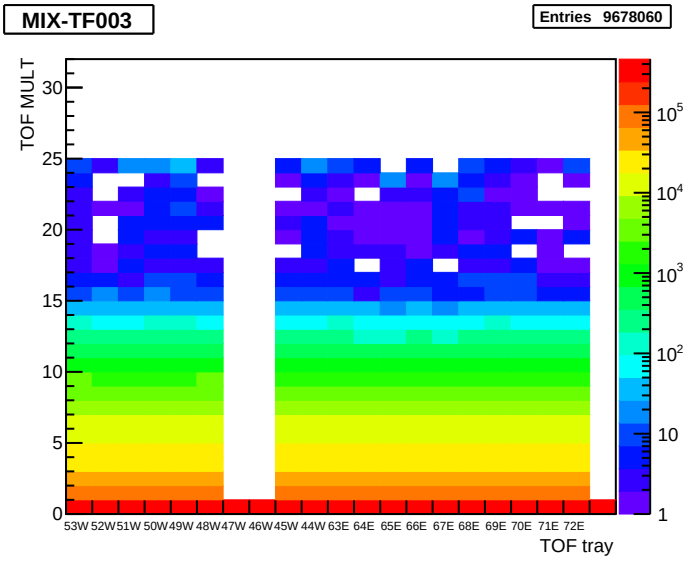

BunchId7Bit (VPD-TAC)
Entries 312034
10^3
10^2
10
0 20 40 60 80 100 120

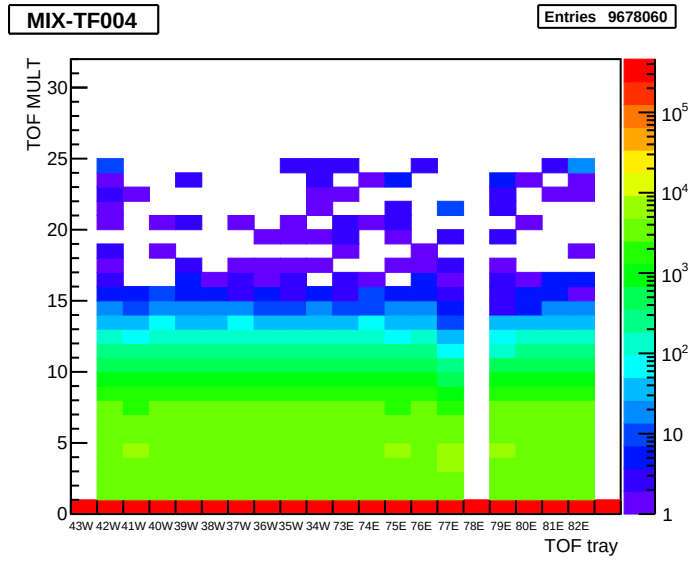

BunchId7Bit (MTD-th2)
Entries 32896
10^2
10
1
0 20 40 60 80 100 120

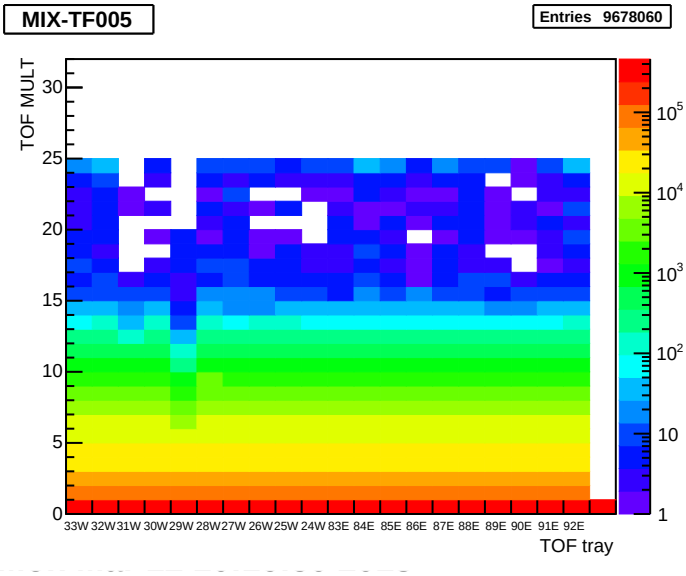

BunchId7Bit (UPC)
Entries 109470
10^3
10^2
10
0 20 40 60 80 100 120

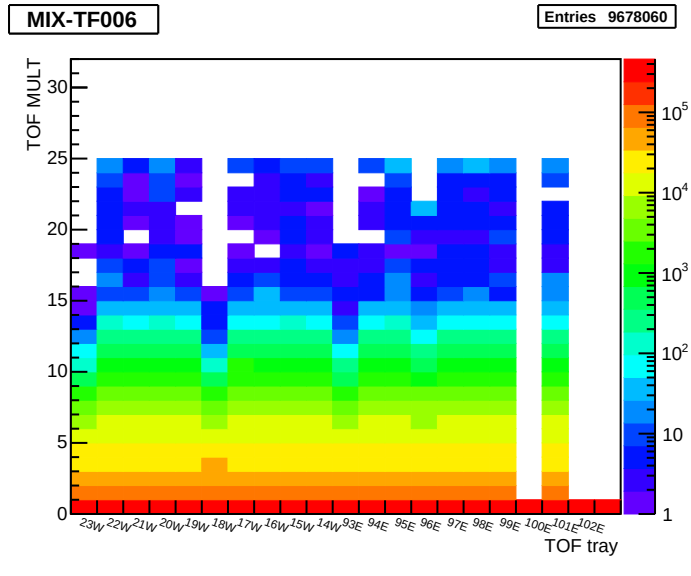

MIX-TF001
Entries 9678060
TOF MULT
TOF tray

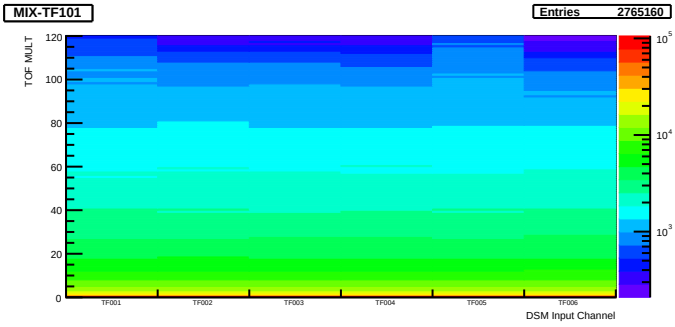

MIX-TF002
Entries 9678060
TOF MULT
TOF tray

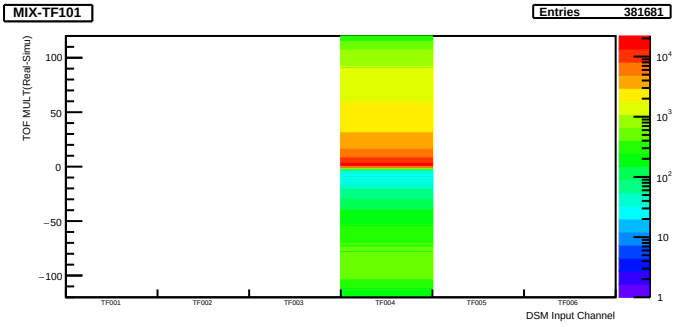

MIX-TF003
Entries 9678060
TOF MULT
TOF tray

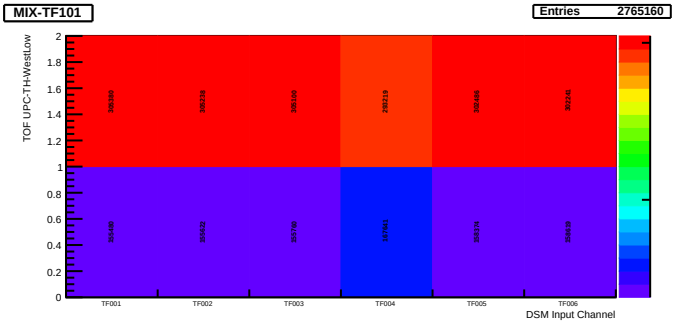

MIX-TF004
Entries 9678060
TOF MULT
TOF tray

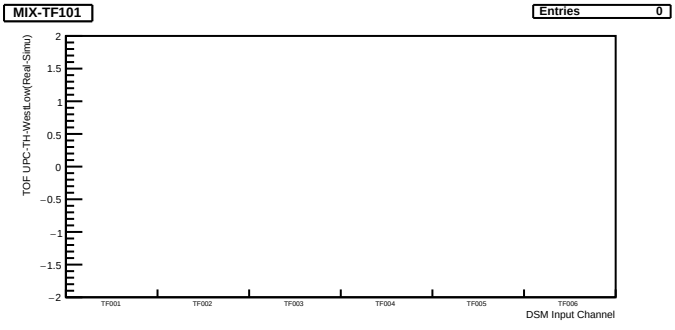

MIX-TF005
Entries 9678060
TOF MULT
TOF tray

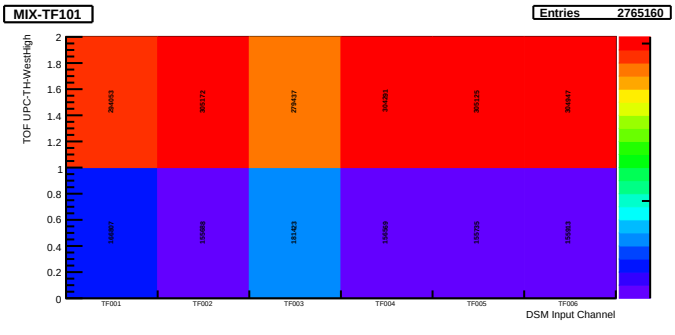

MIX-TF006
Entries 9678060
TOF MULT
TOF tray

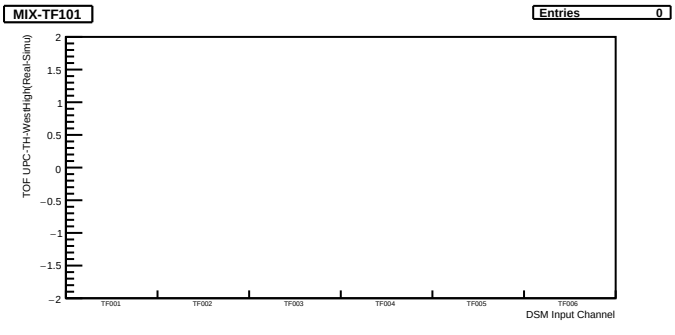

MIX-TF101
Entries 2765160
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

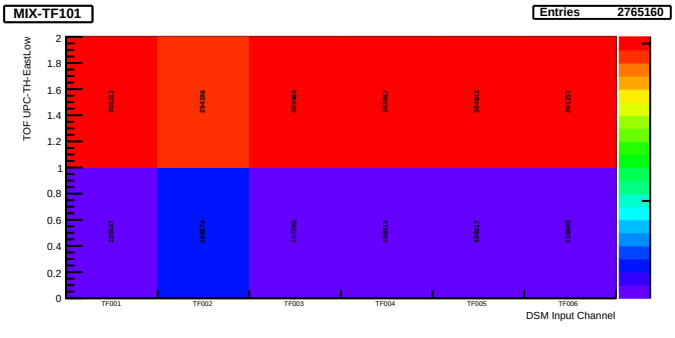

MIX-TF101
Entries 381681
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

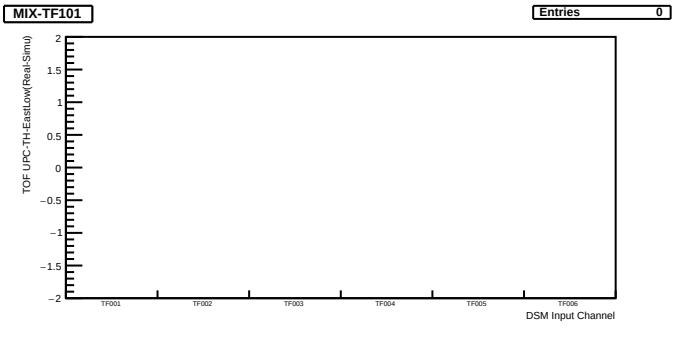

MIX-TF101
Entries 2765160
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

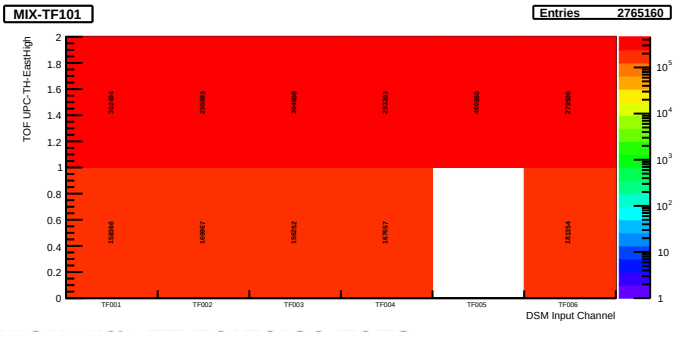

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

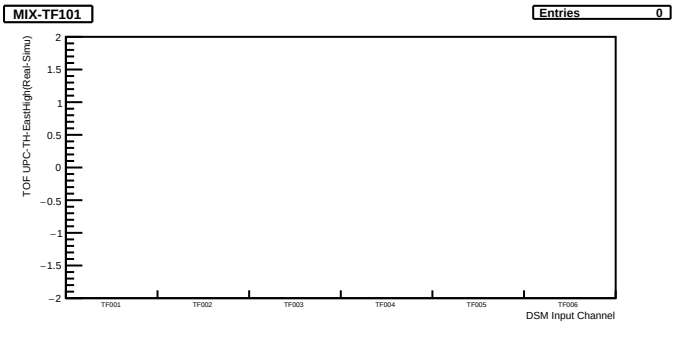

MIX-TF101
Entries 2765160
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

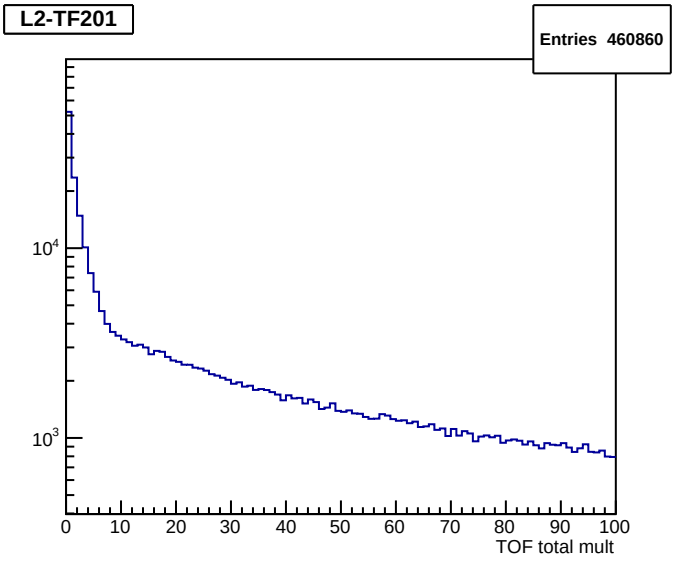

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

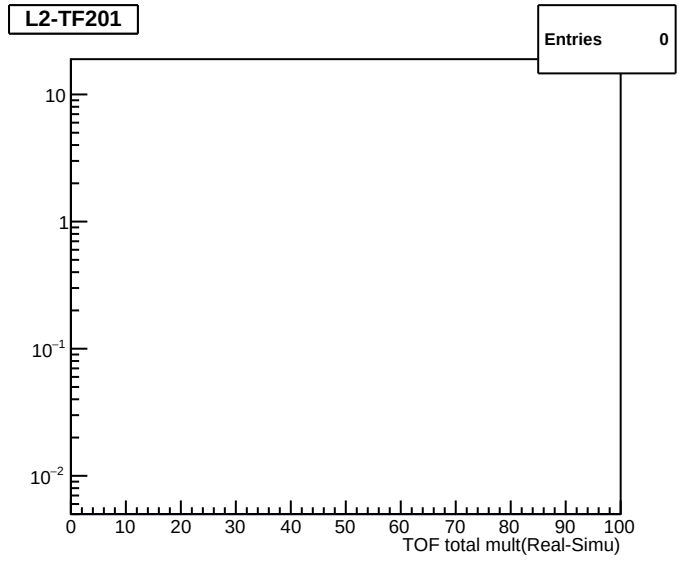

MIX-TF101
Entries 2765160
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

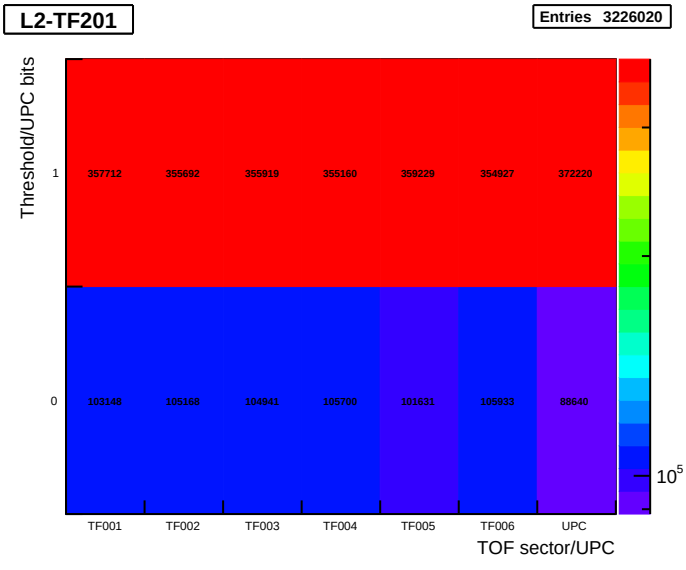

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

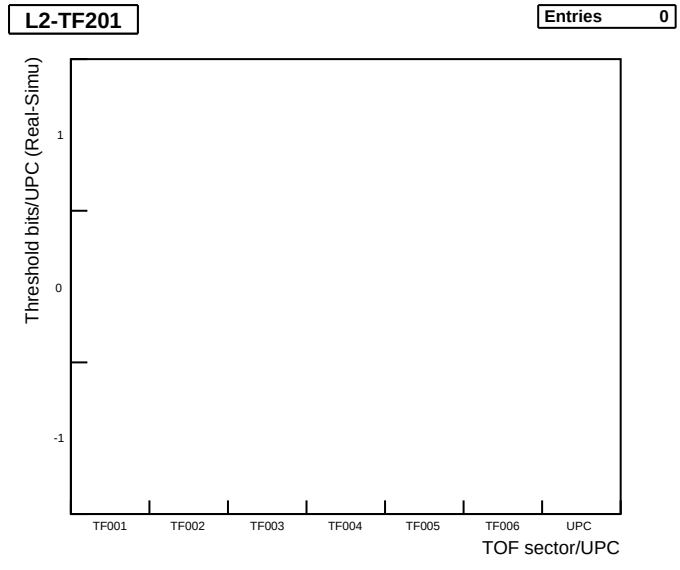

MIX-TF101
Entries 2765160
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

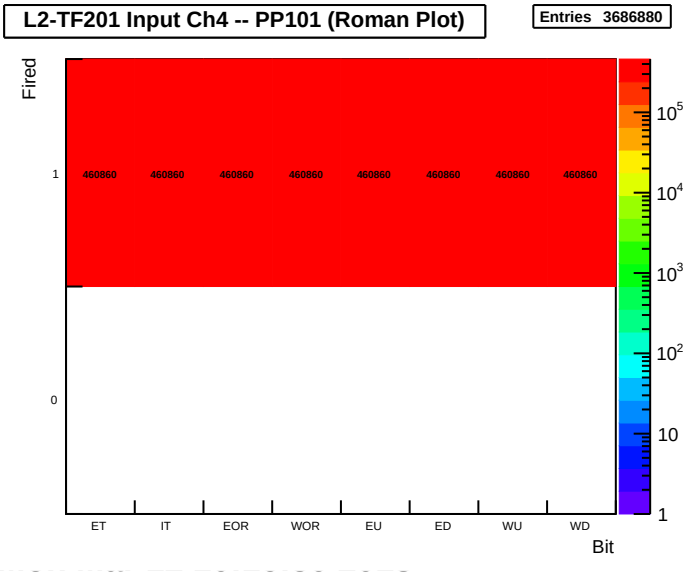

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

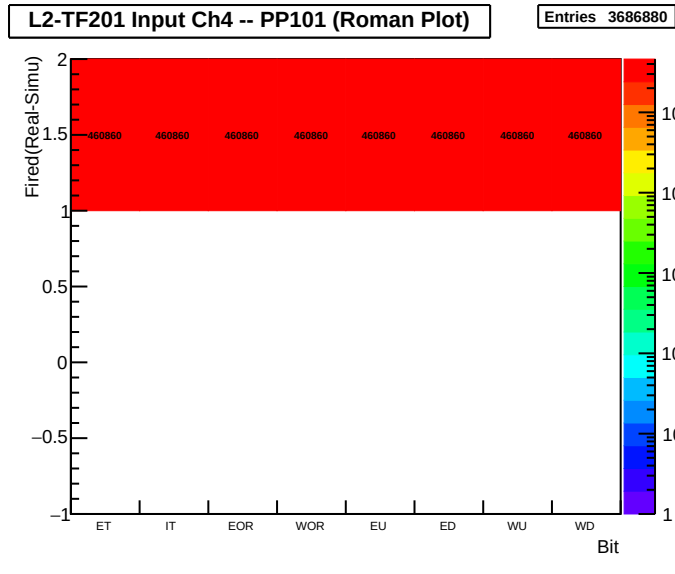

L2-TF201
Entries 460860
TOF total mult

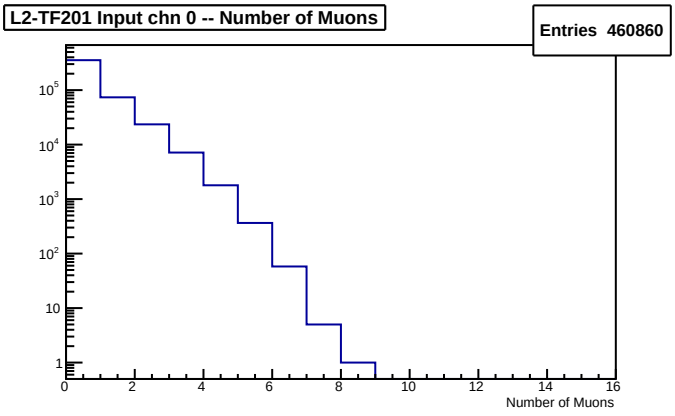

L2-TF201
Entries 0
TOF total mult(Real-Simu)

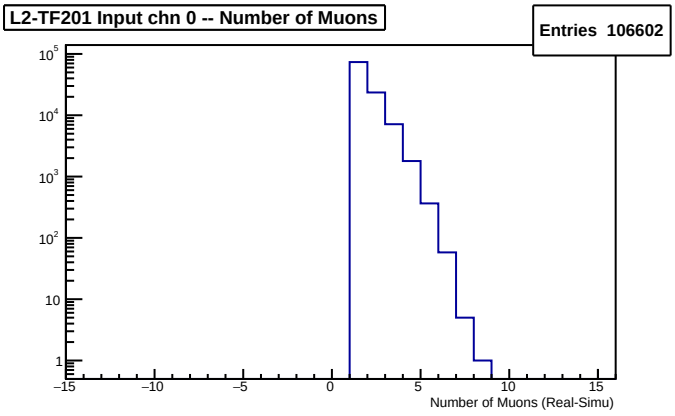

L2-TF201
Entries 3226020
Threshold/UPC bits
357712 355692 355919 355160 359229 354927 372220
103148 105168 104941 105700 101631 105933 88640
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

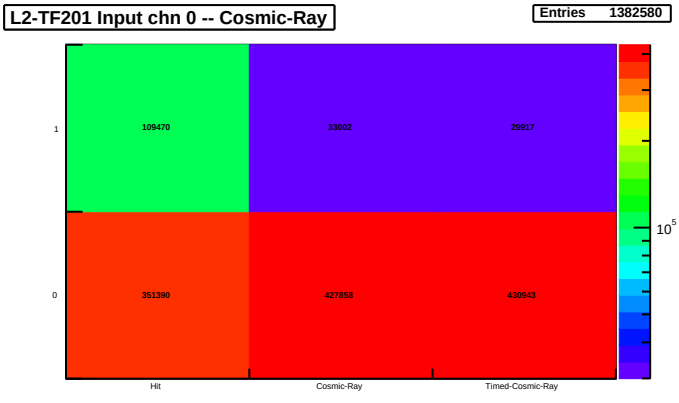

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

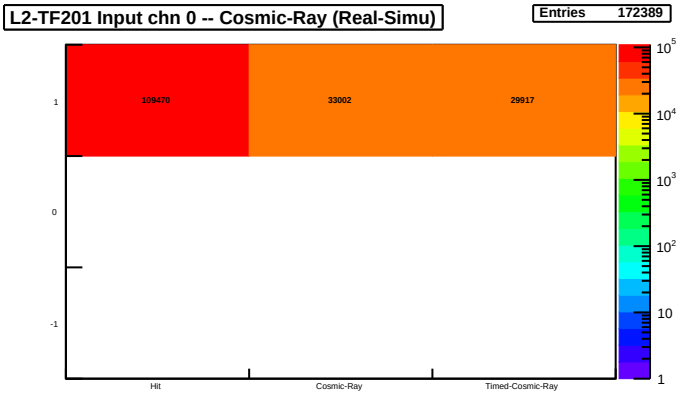

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 3686880
Fired
460860 460860 460860 460860 460860 460860 460860 460860
ET IT EOR WOR EU ED WU WD
Bit

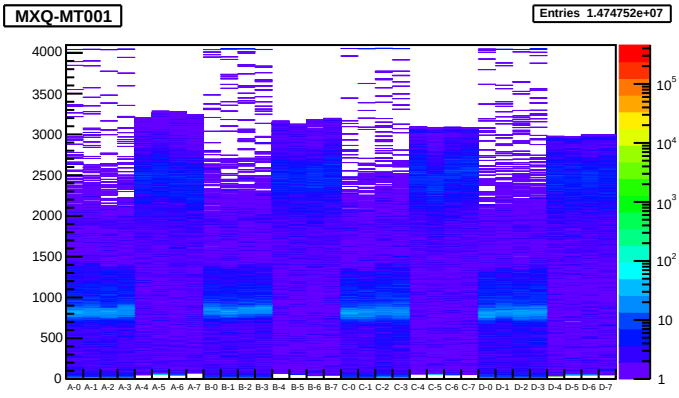

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 3686880
Fired(Real-Simu)
460860 460860 460860 460860 460860 460860 460860 460860
ET IT EOR WOR EU ED WU WD
Bit

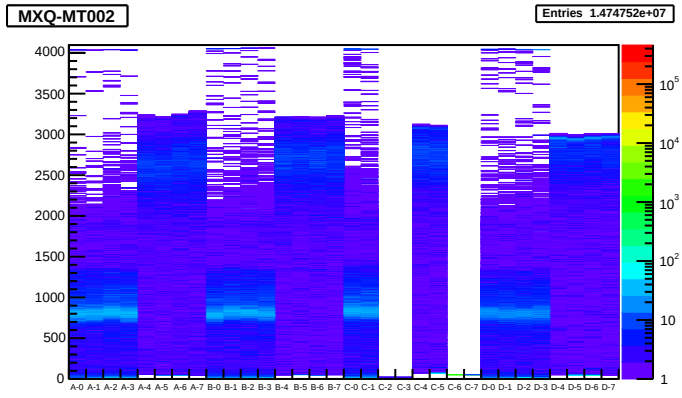

L2-TF201 Input chn 0 -- Number of Muons
Entries 460860
Number of Muons

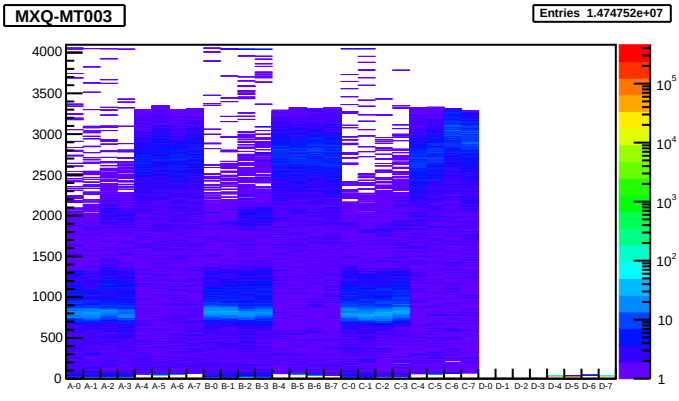

L2-TF201 Input chn 0 -- Number of Muons
Entries 106602
Number of Muons (Real-Simu)

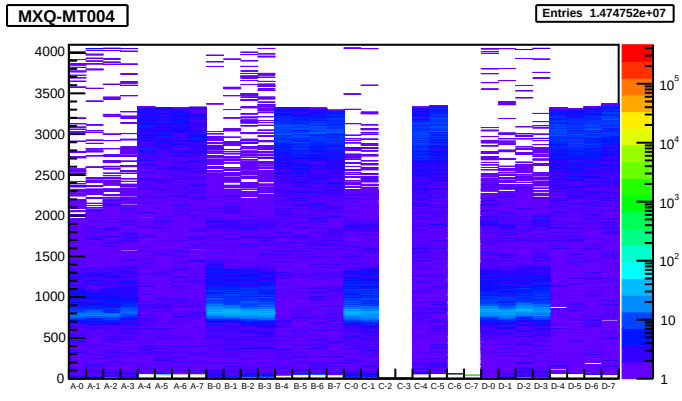

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 1382580
109470
33002
29917
351390
427858
430943
Hit
Cosmic-Ray
Timed-Cosmic-Ray

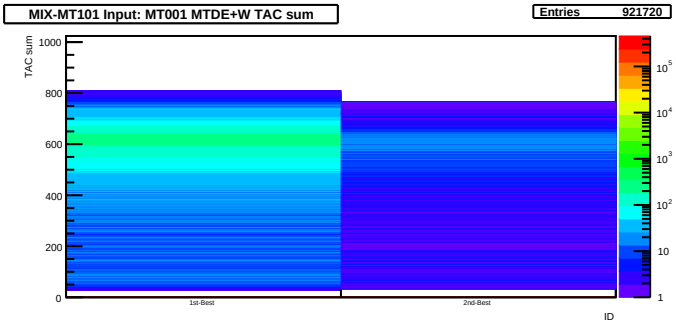

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 172389
109470
33002
29917
Hit
Cosmic-Ray
Timed-Cosmic-Ray

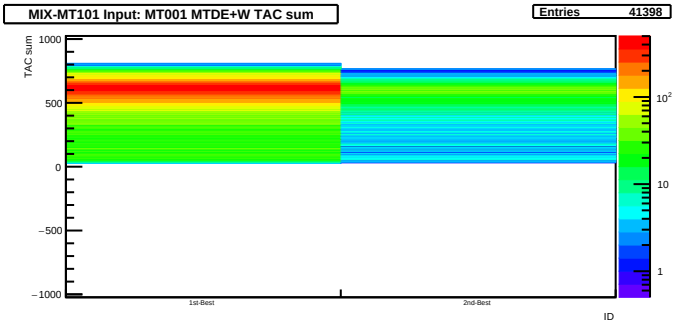

MXQ-MT001
Entries 1.474752e+07

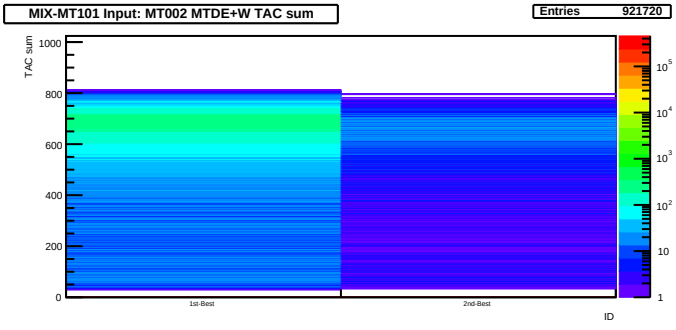

MXQ-MT002
Entries 1.474752e+07

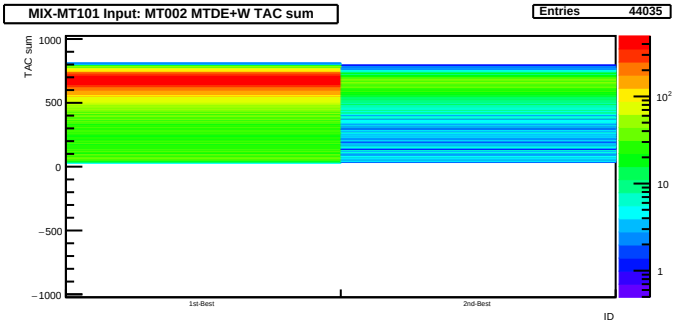

MXQ-MT003
Entries 1.474752e+07

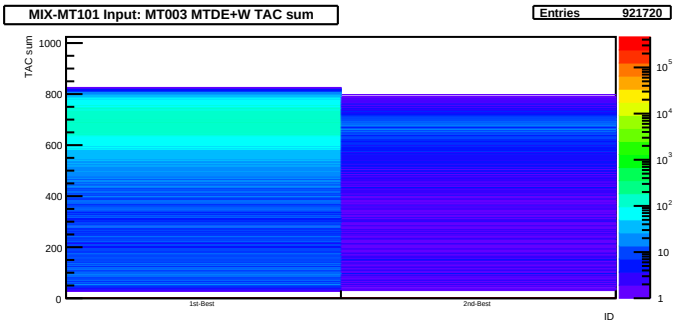

MXQ-MT004
Entries 1.474752e+07

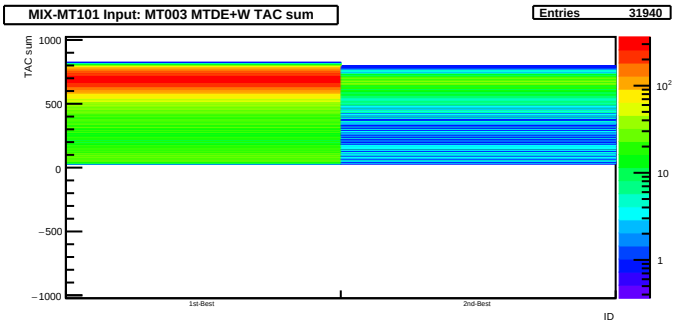

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 921720
TAC sum
1st-Best
2nd-Best
ID

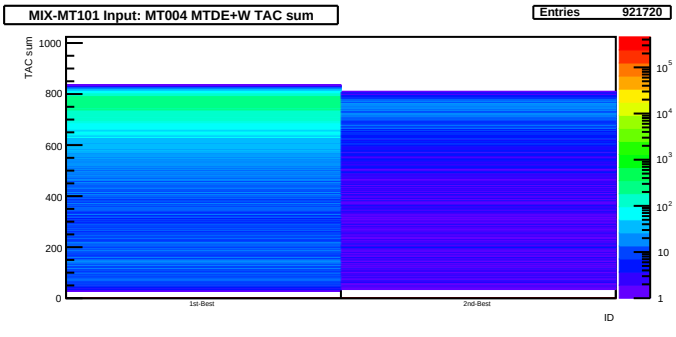

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 41398
TAC sum
1st-Best
2nd-Best
ID

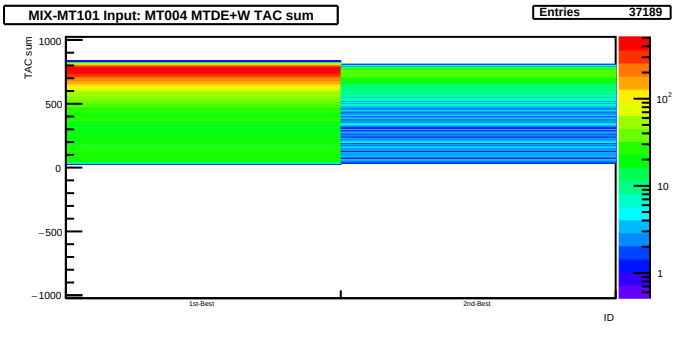

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 921720
TAC sum
1st-Best
2nd-Best
ID

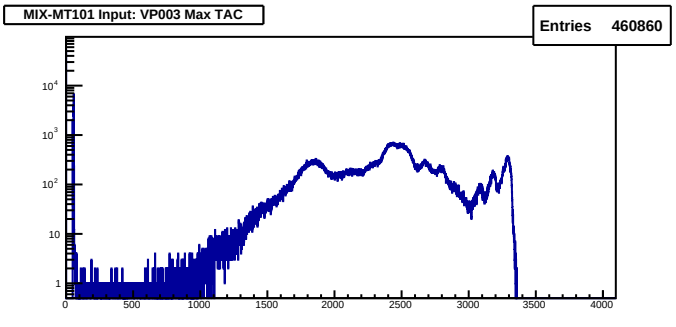

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 44035
TAC sum
1st-Best
2nd-Best
ID

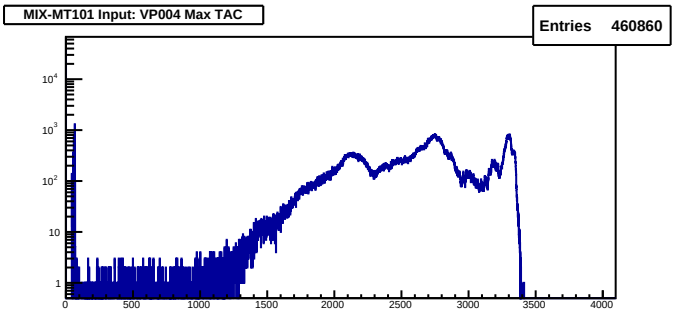

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 921720
TAC sum
1st-Best
2nd-Best
ID

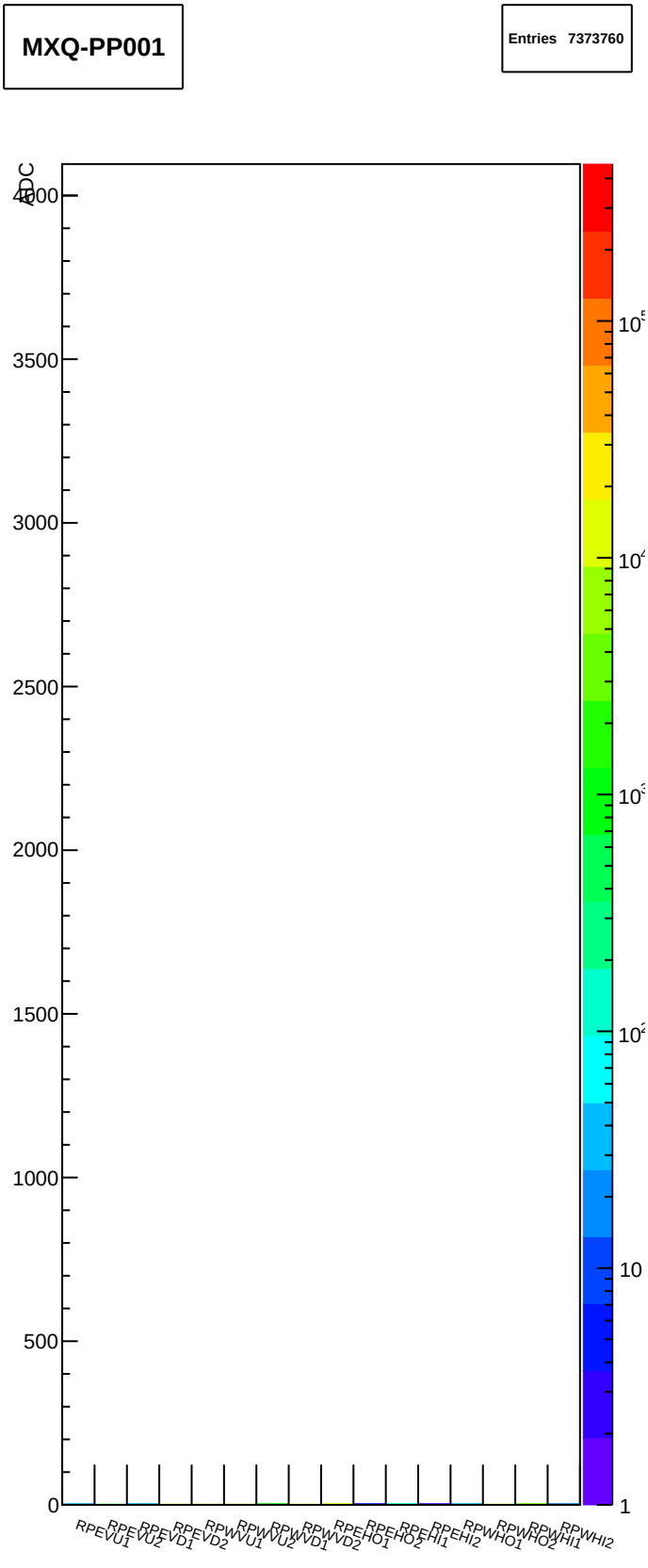

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 31940
TAC sum
1st-Best
2nd-Best
ID

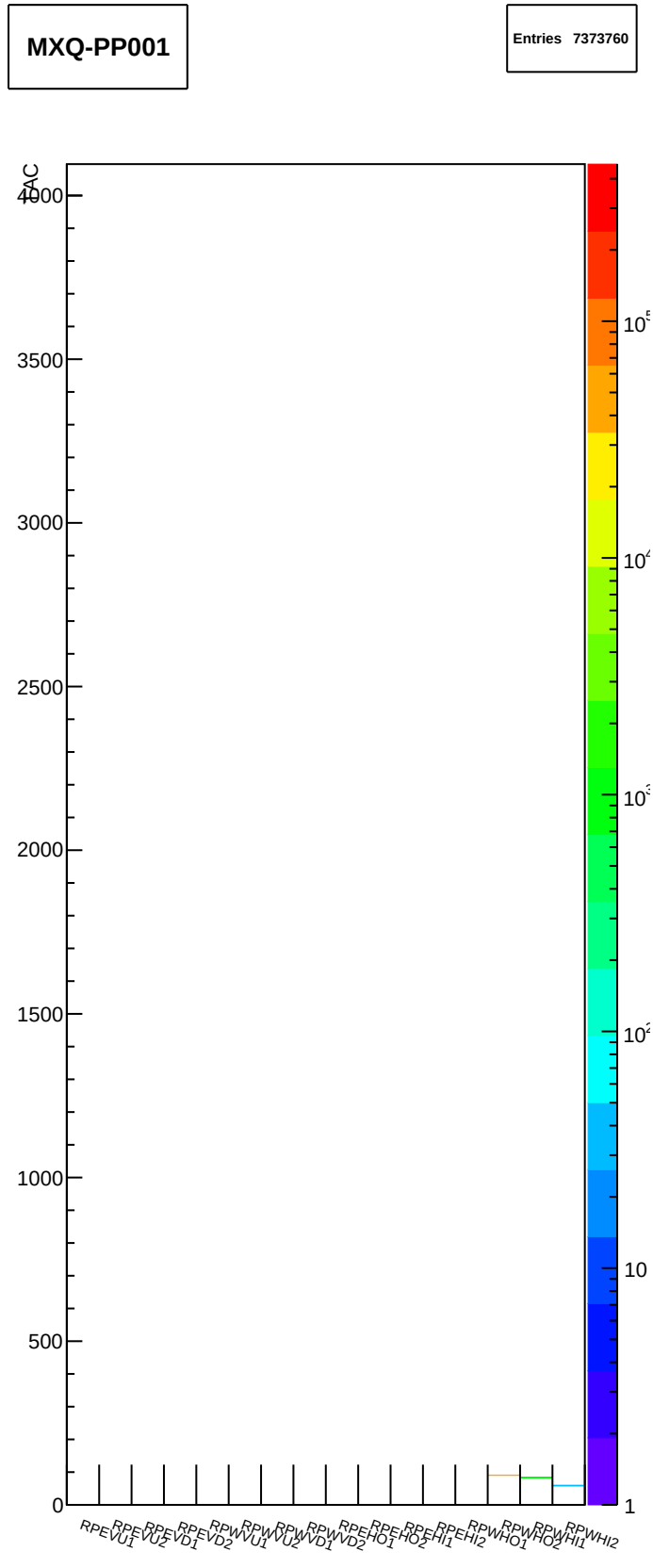

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 921720
TAC sum
1st-Best
2nd-Best
ID

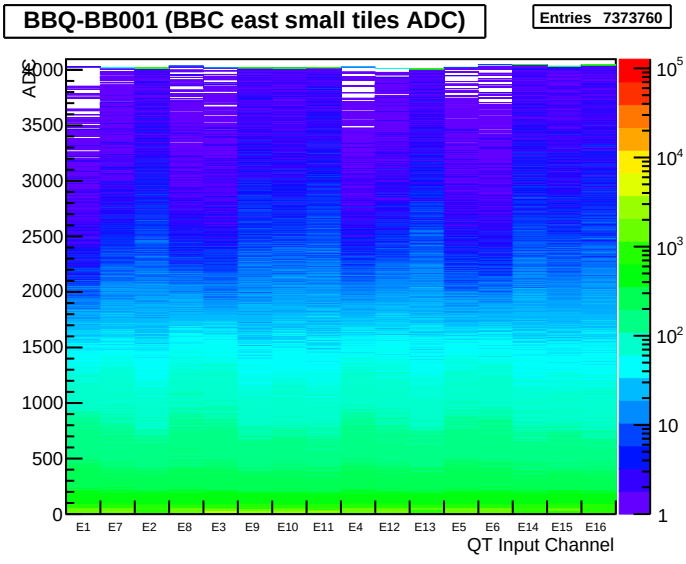

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 37189
TAC sum
1st-Best
2nd-Best
ID

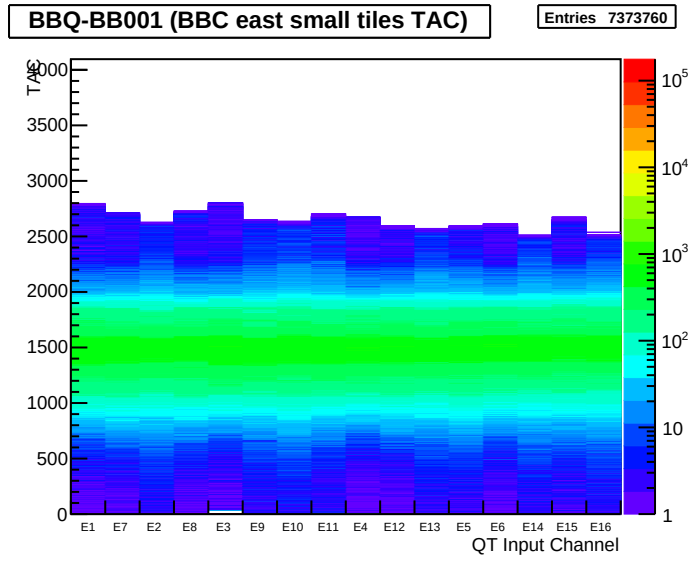

MIX-MT101 Input: VP003 Max TAC
Entries 460860

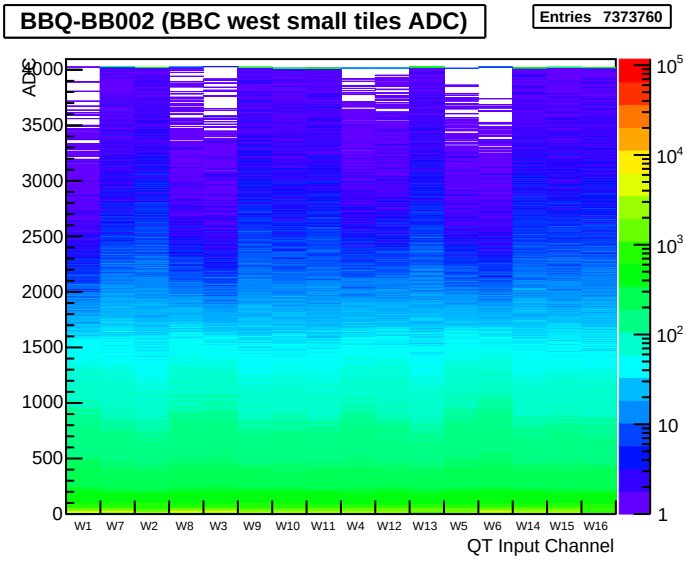

MIX-MT101 Input: VP004 Max TAC
Entries 460860

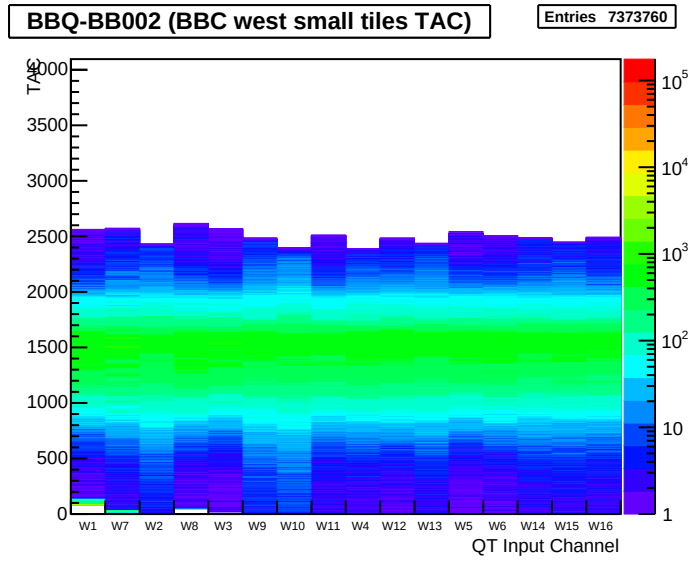

MXQ-PP001
Entries 7373760
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

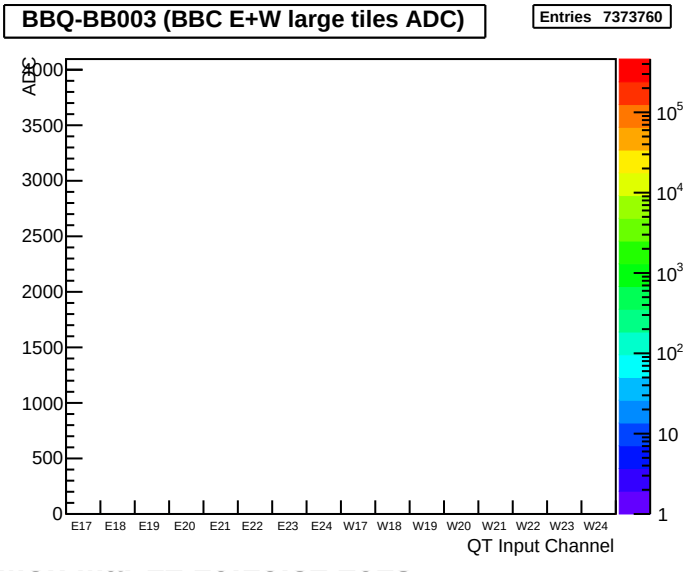

MXQ-PP001
Entries 7373760
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

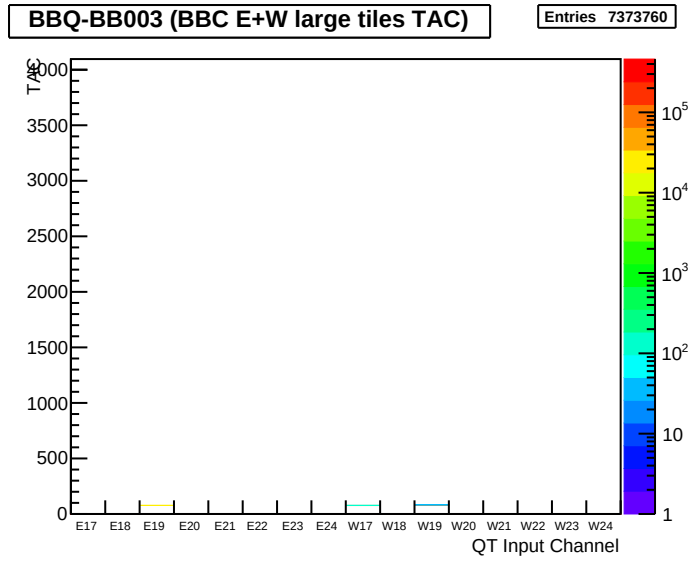

BBQ-BB001 (BBC east small tiles ADC)
Entries 7373760
ADC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

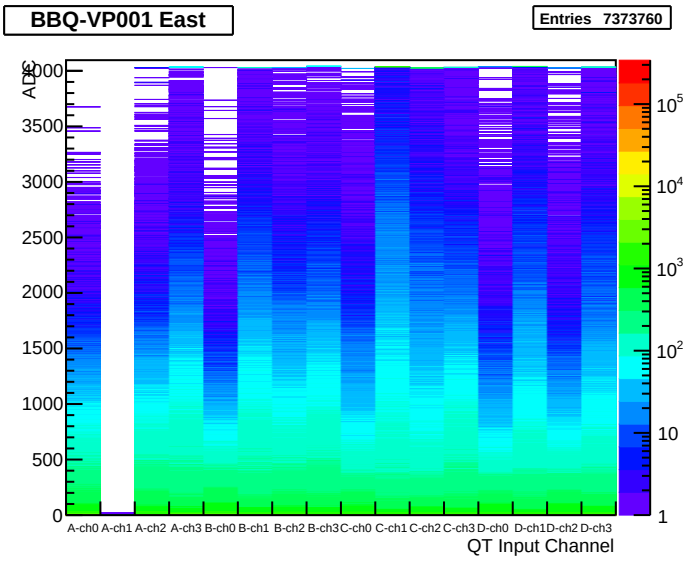

BBQ-BB001 (BBC east small tiles TAC)
Entries 7373760
TAC
QT Input Channel
E1 E7 E2 E8 E3 E9 E10 E11 E4 E12 E13 E5 E6 E14 E15 E16

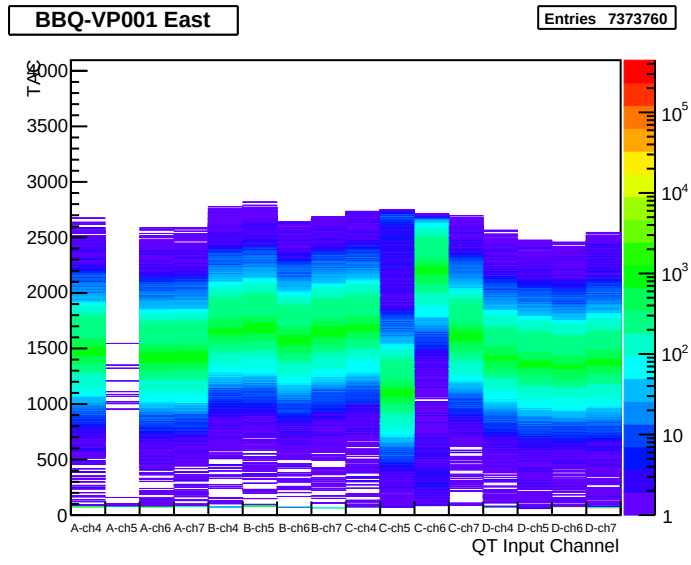

BBQ-BB002 (BBC west small tiles ADC)
Entries 7373760
ADC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

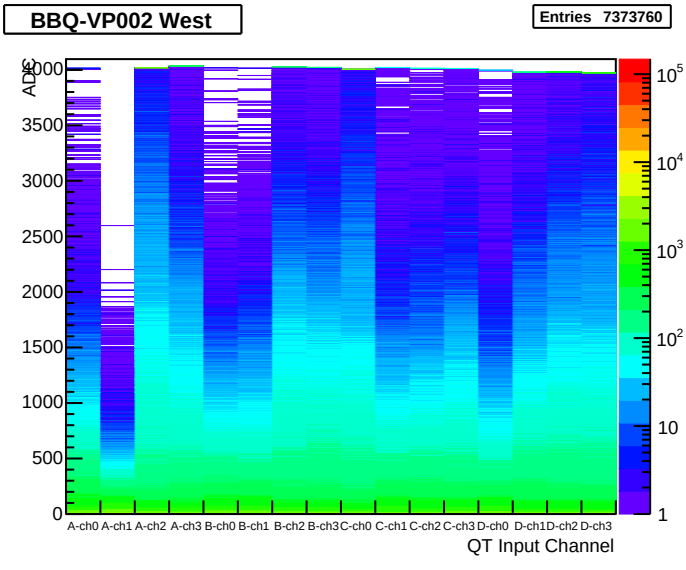

BBQ-BB002 (BBC west small tiles TAC)
Entries 7373760
TAC
QT Input Channel
W1 W7 W2 W8 W3 W9 W10 W11 W4 W12 W13 W5 W6 W14 W15 W16

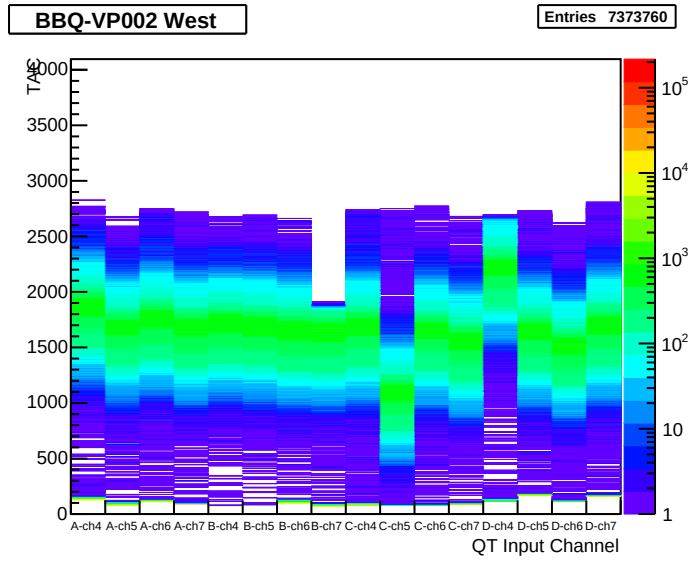

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7373760
ADC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

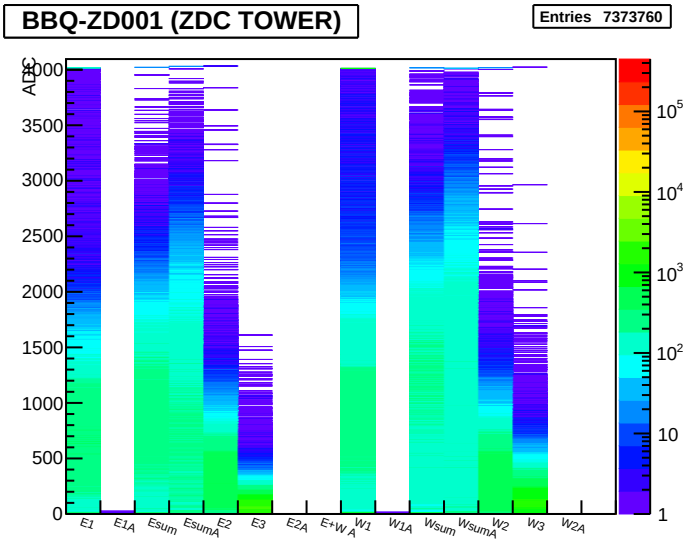

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7373760
TAC
QT Input Channel
E17 E18 E19 E20 E21 E22 E23 E24 W17 W18 W19 W20 W21 W22 W23 W24

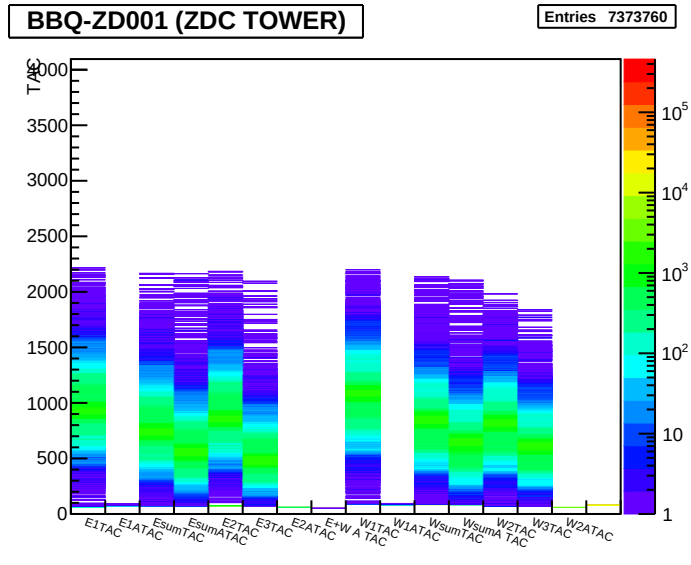

BBQ-VP001 East
Entries 7373760
ADC
QT Input Channel

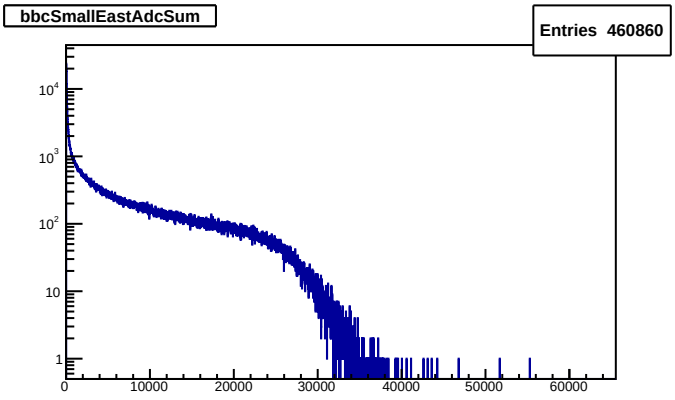

BBQ-VP001 East
Entries 7373760
TAC
QT Input Channel

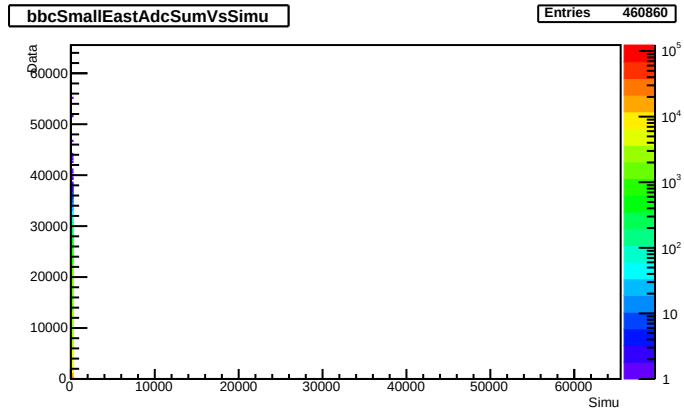

BBQ-VP002 West
Entries 7373760
ADC
QT Input Channel

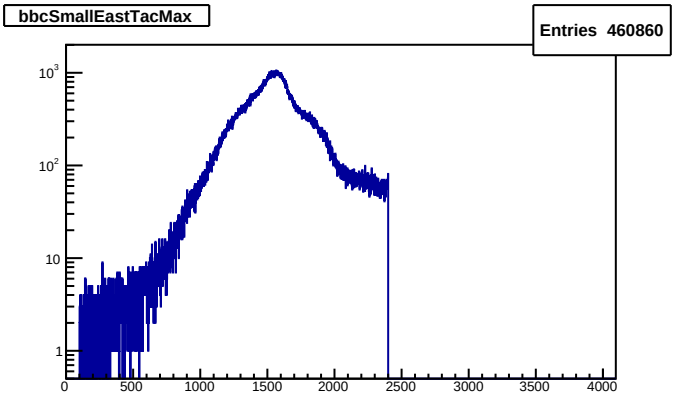

BBQ-VP002 West
Entries 7373760
TAC
QT Input Channel

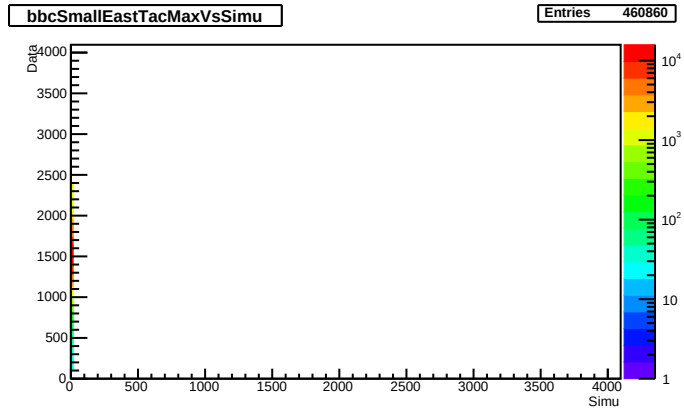

BBQ-ZD001 (ZDC TOWER)
Entries 7373760
ADC

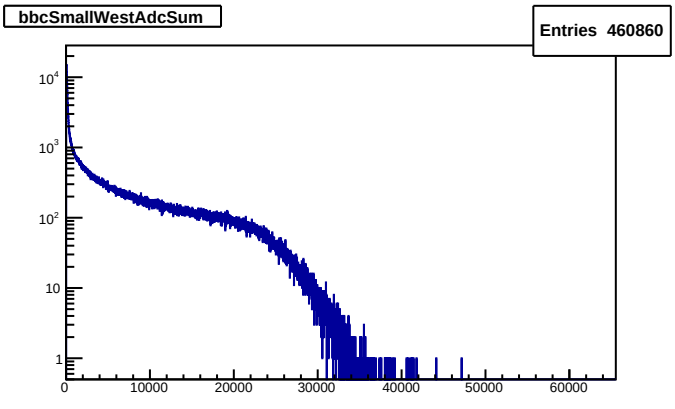

BBQ-ZD001 (ZDC TOWER)
Entries 7373760
TAC

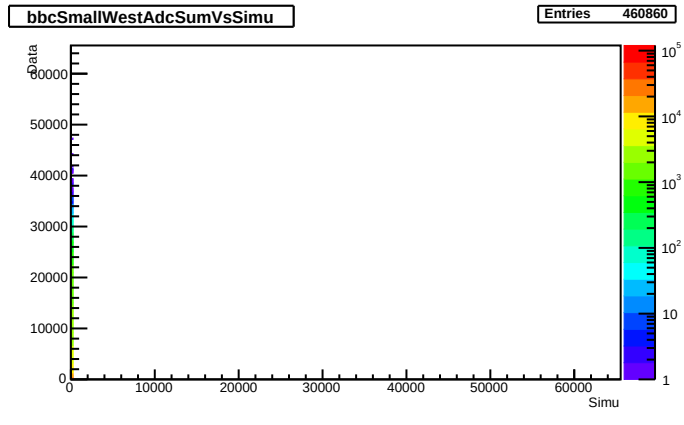

bbcSmallEastAdcSum
Entries 460860

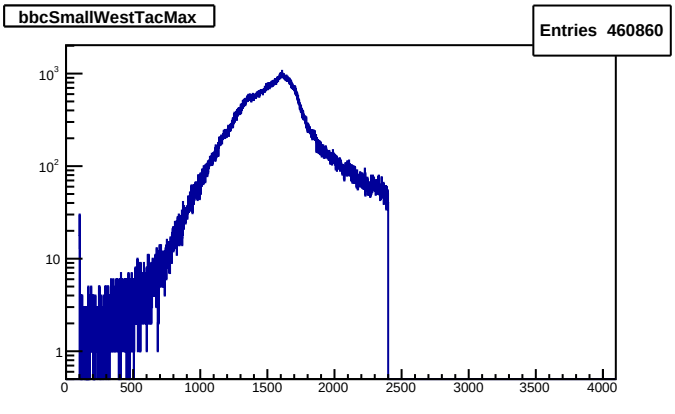

bbcSmallEastAdcSumVsSimu
Entries 460860
Data
Simu

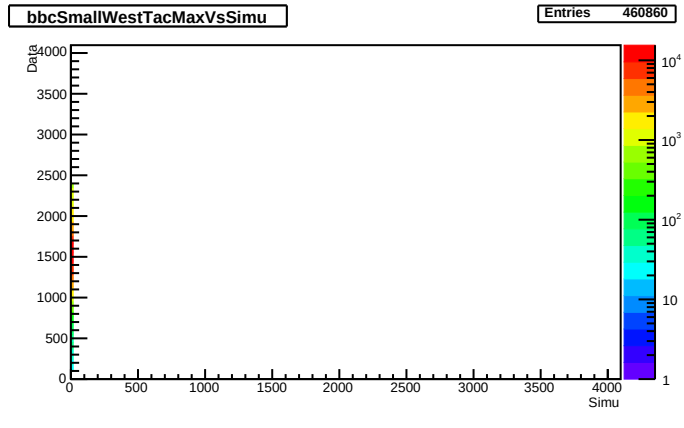

bbcSmallEastTacMax
Entries 460860

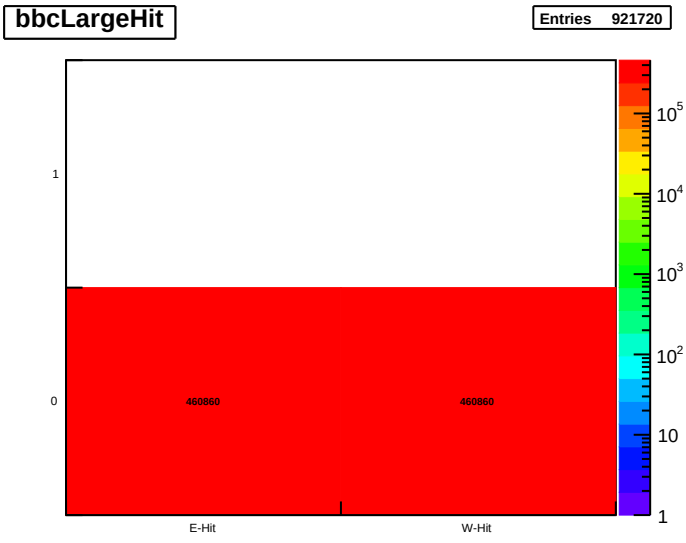

bbcSmallEastTacMaxVsSimu
Entries 460860
Data
Simu

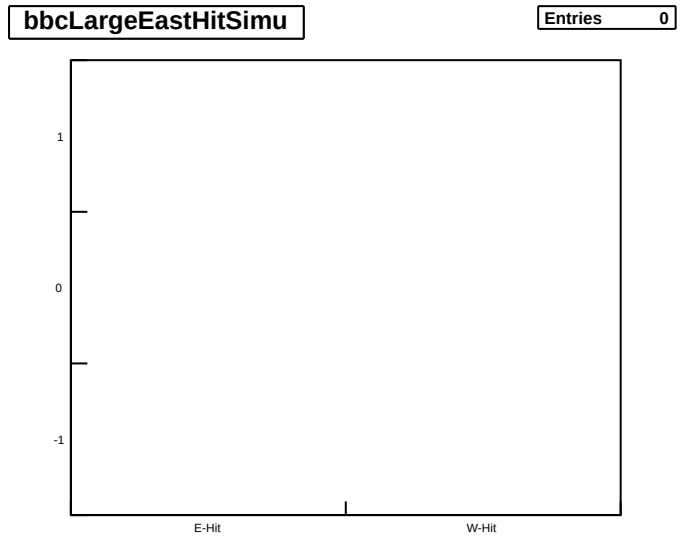

bbcSmallWestAdcSum
Entries 460860

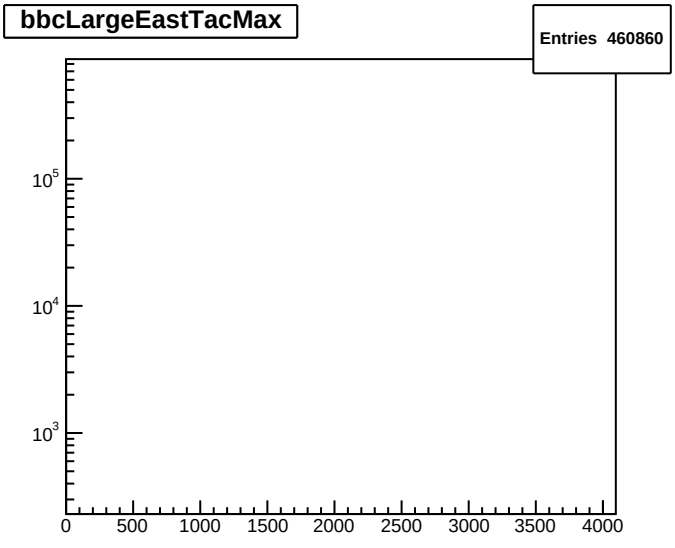

bbcSmallWestAdcSumVsSimu
Entries 460860
Data
Simu

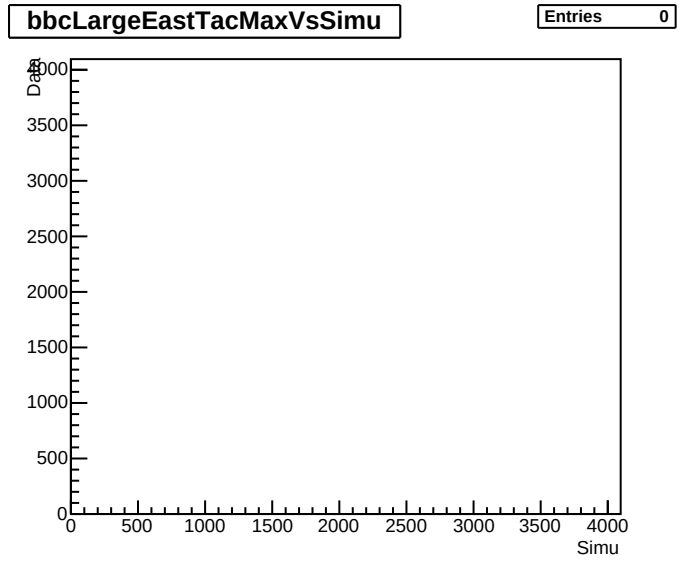

bbcSmallWestTacMax
Entries 460860

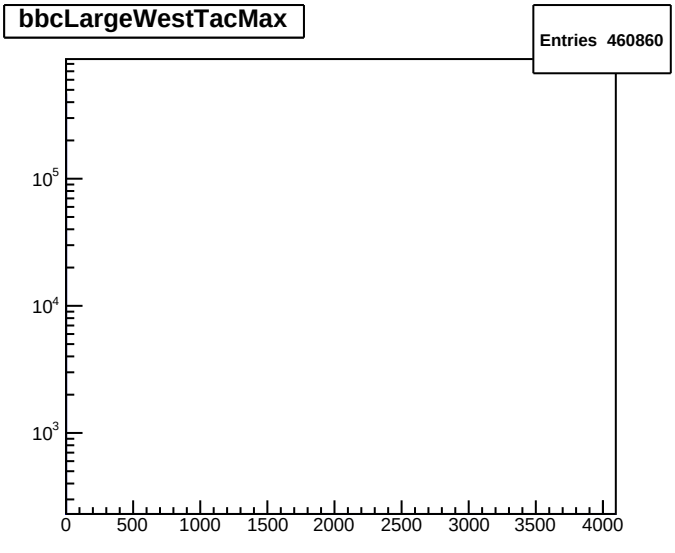

bbcSmallWestTacMaxVsSimu
Entries 460860
Data
Simu

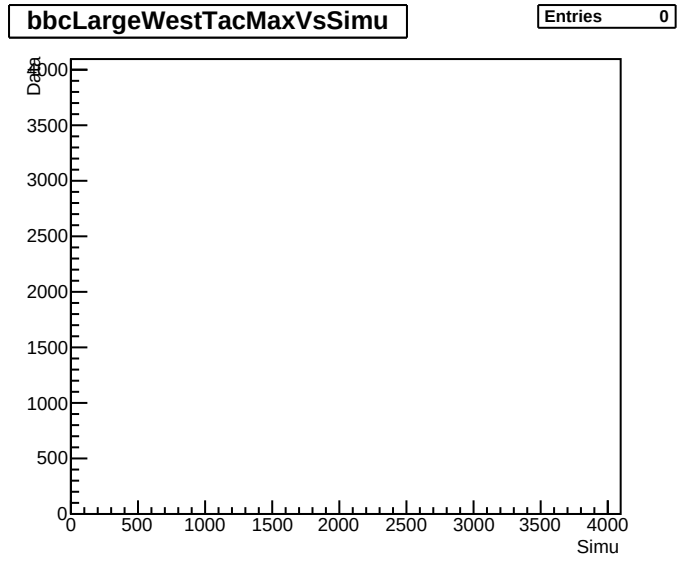

bbcLargeHit
Entries 921720
460860
460860
E-Hit
W-Hit

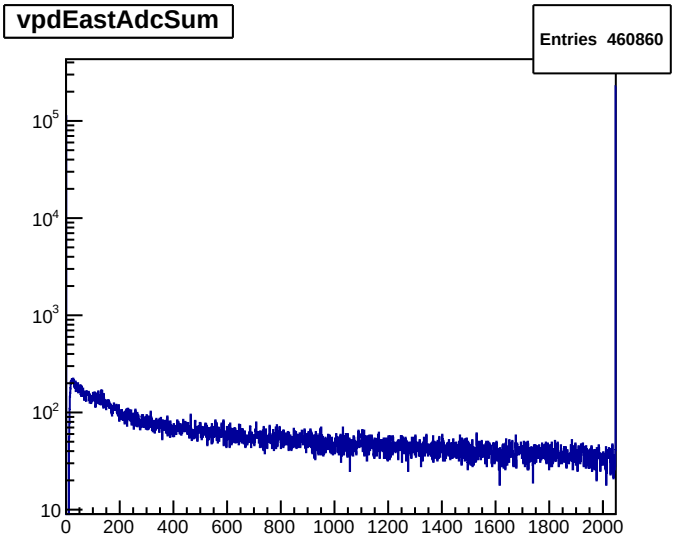

bbcLargeEastHitSimu
Entries 0
E-Hit
W-Hit

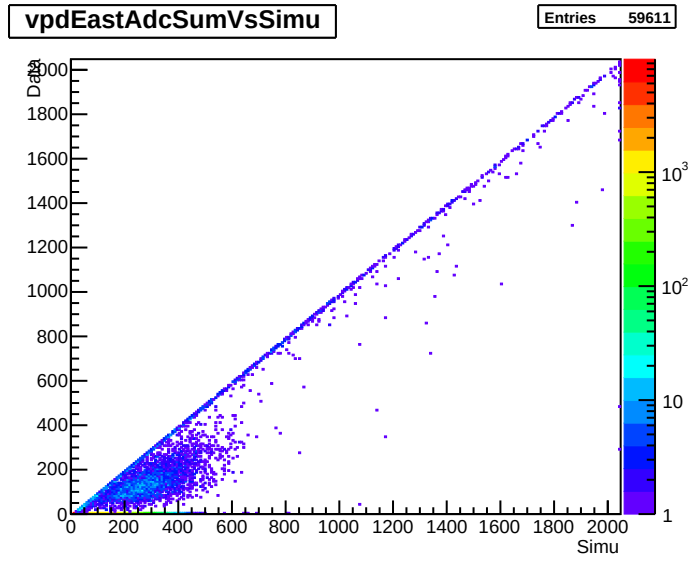

bbcLargeEastTacMax
Entries 460860

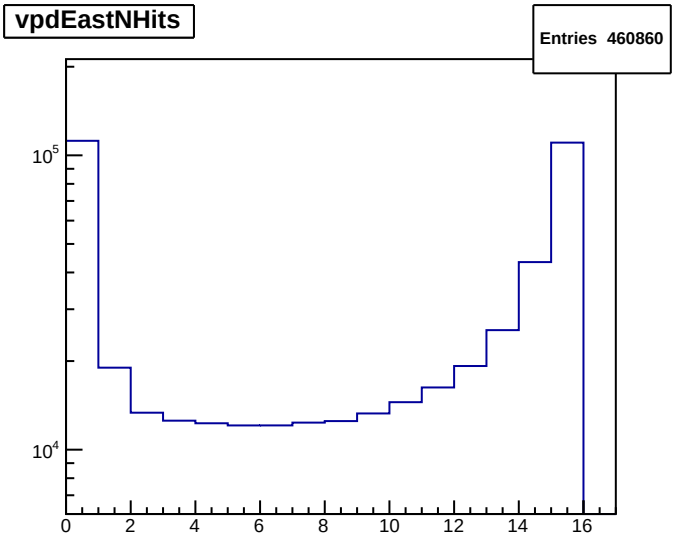

bbcLargeEastTacMaxVsSimu
Entries 0
Data
Simu

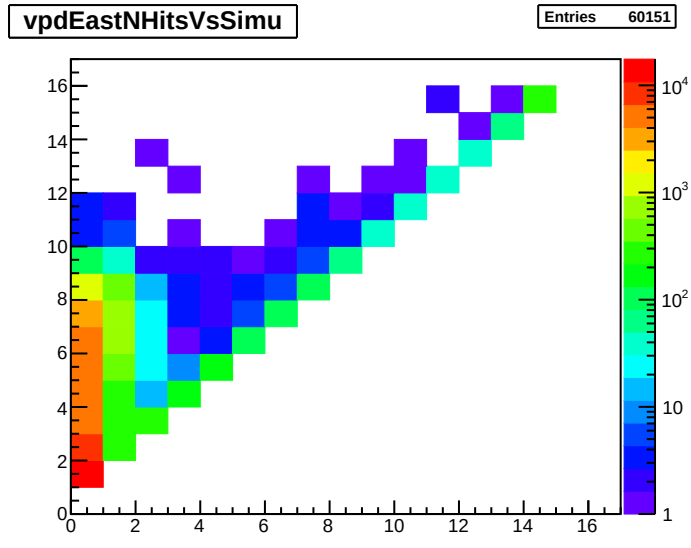

bbcLargeWestTacMax
Entries 460860

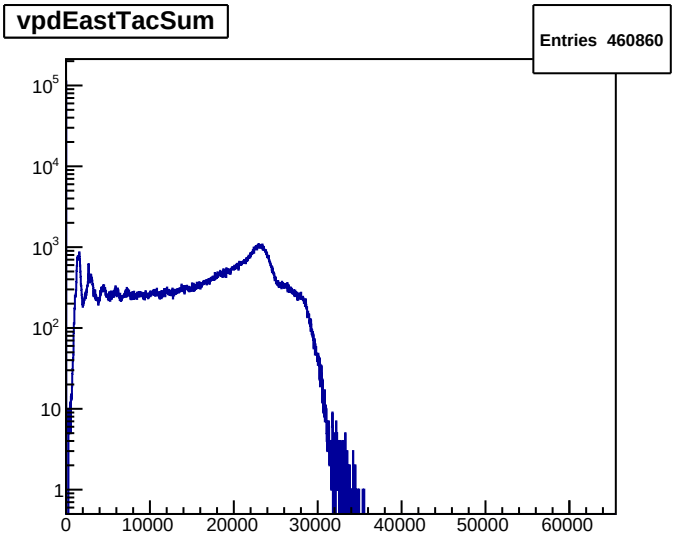

bbcLargeWestTacMaxVsSimu
Entries 0
Data
Simu

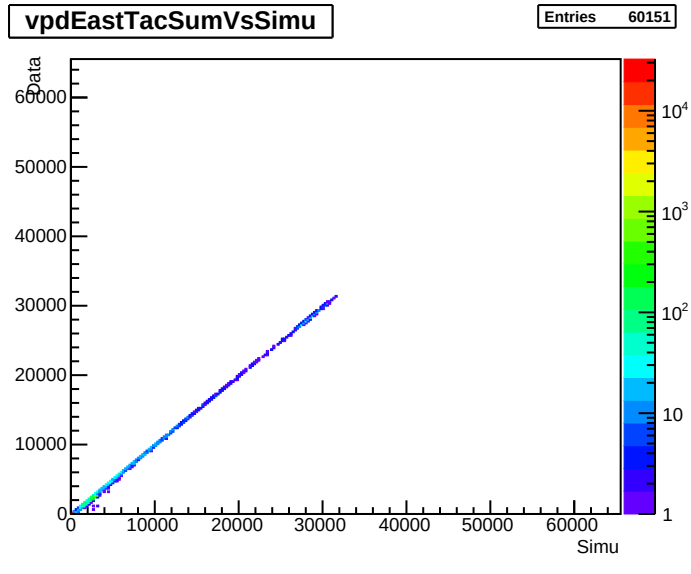

vpdEastAdcSum
Entries 460860

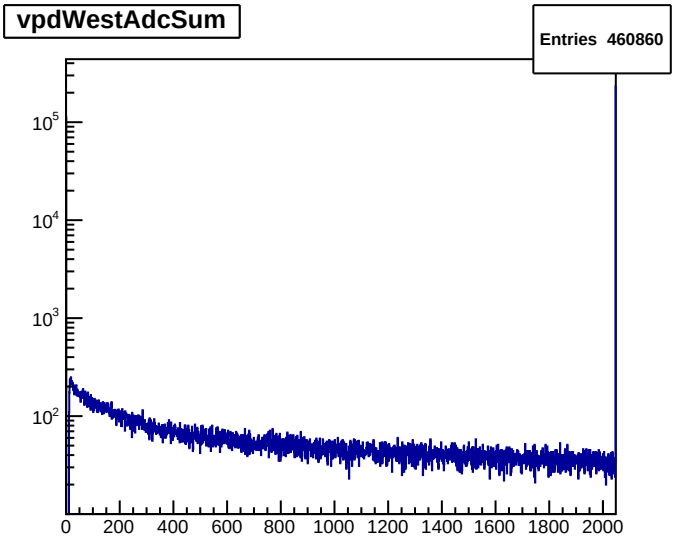

vpdEastAdcSumVsSimu
Entries 59611
Data
Simu

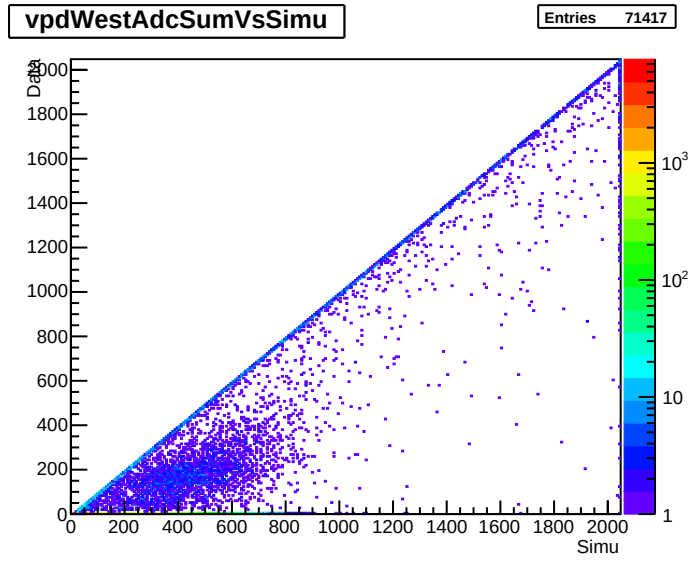

vpdEastNHits
Entries 460860

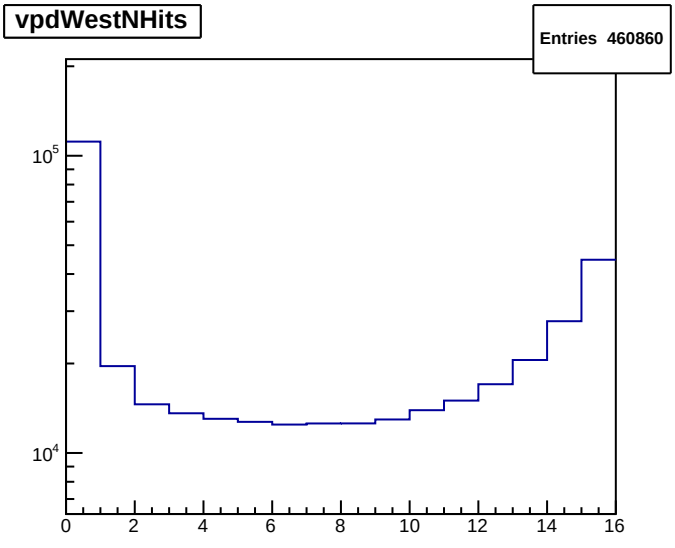

vpdEastNHitsVsSimu
Entries 60151

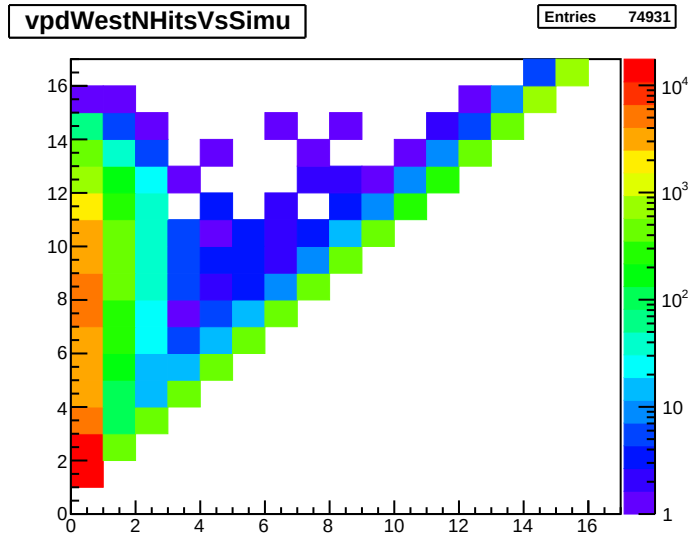

vpdEastTacSum
Entries 460860

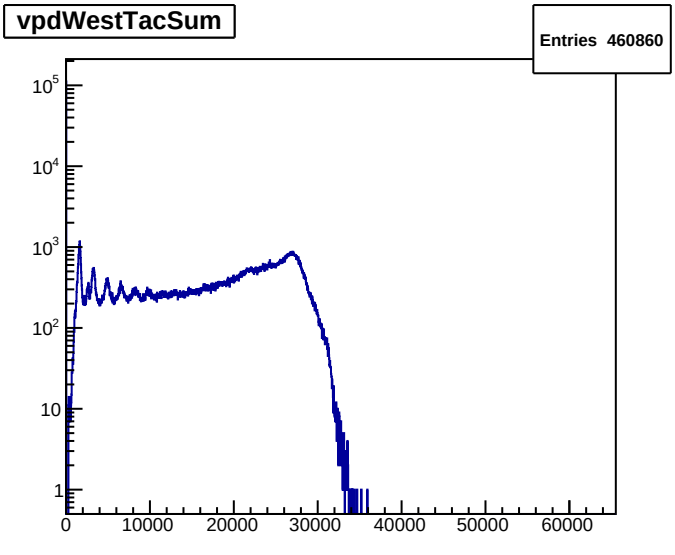

vpdEastTacSumVsSimu
Entries 60151
Data
Simu

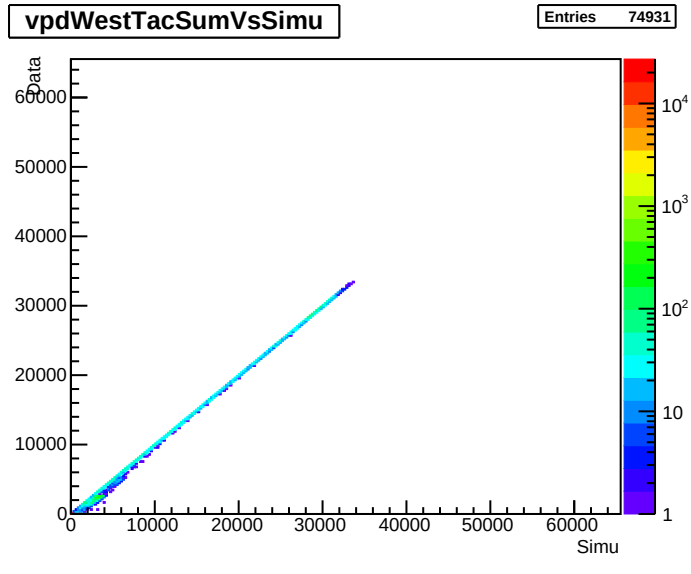

vpdWestAdcSum
Entries 460860

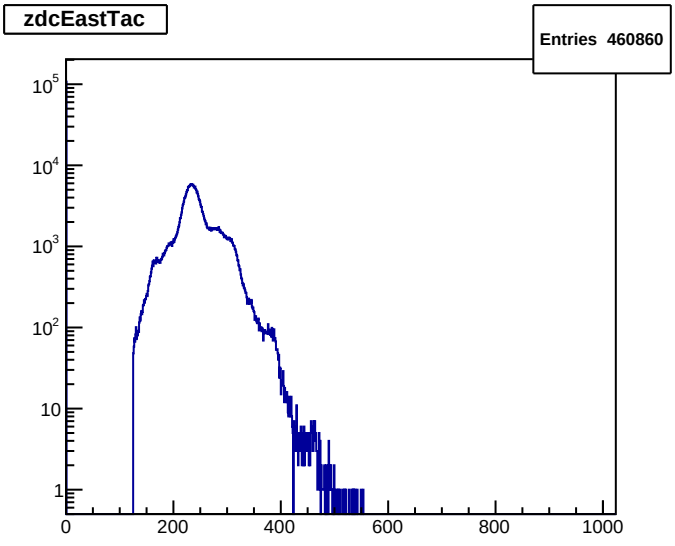

vpdWestAdcSumVsSimu
Entries 71417
Data
Simu

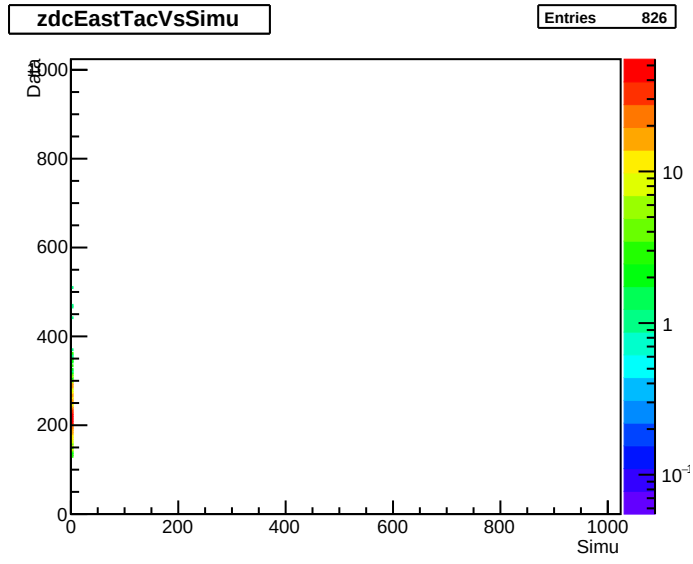

vpdWestNHits
Entries 460860

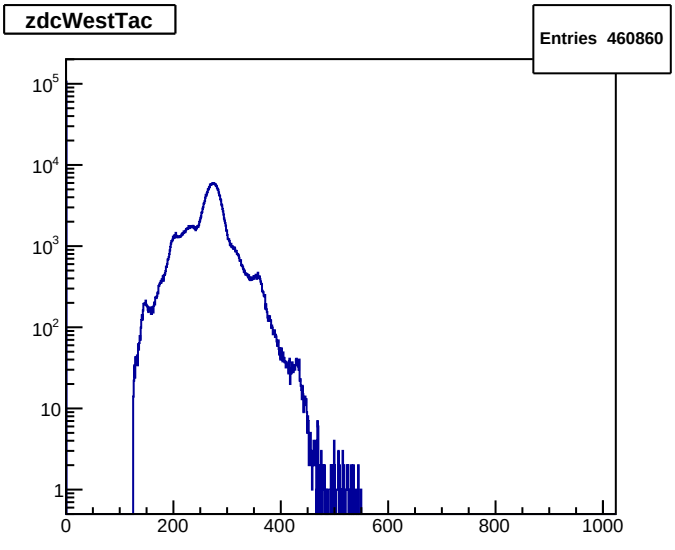

vpdWestNHitsVsSimu
Entries 74931

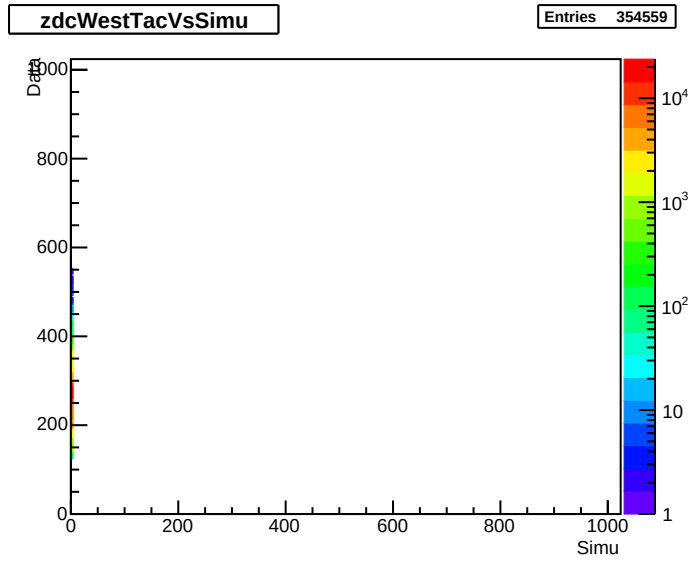

vpdWestTacSum
Entries 460860

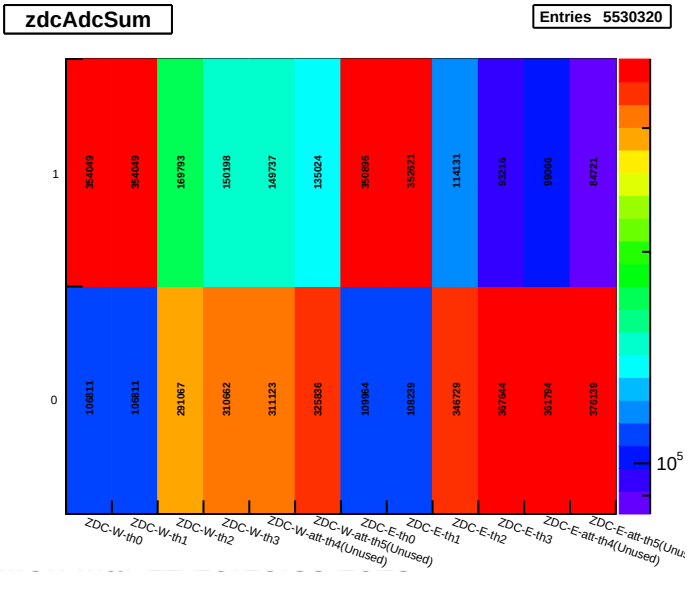

vpdWestTacSumVsSimu
Entries 74931
Data
Simu

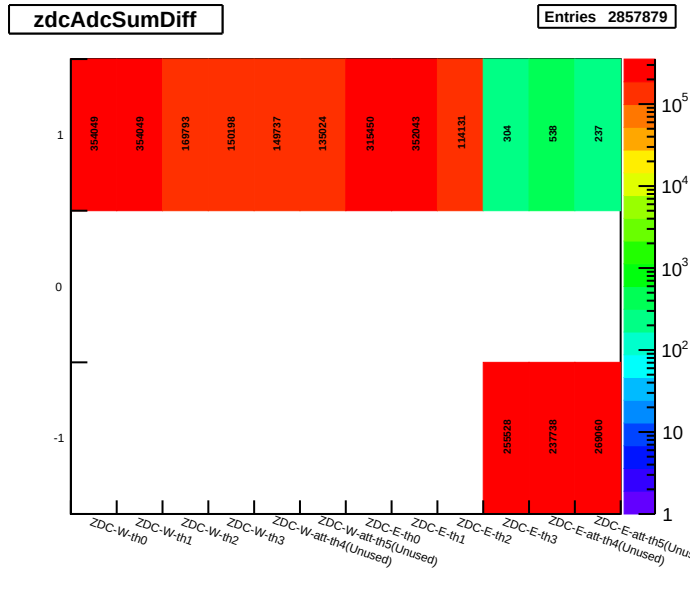

zdcEastTac
Entries 460860

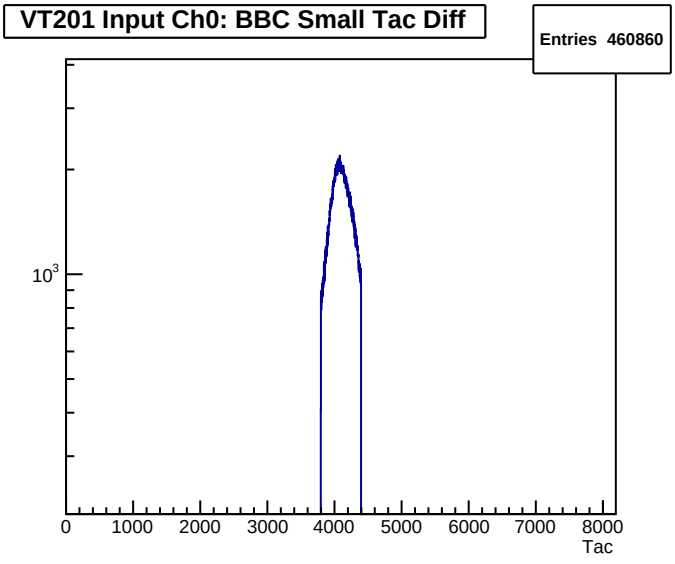

zdcEastTacVsSimu
Entries 826
Data
Simu

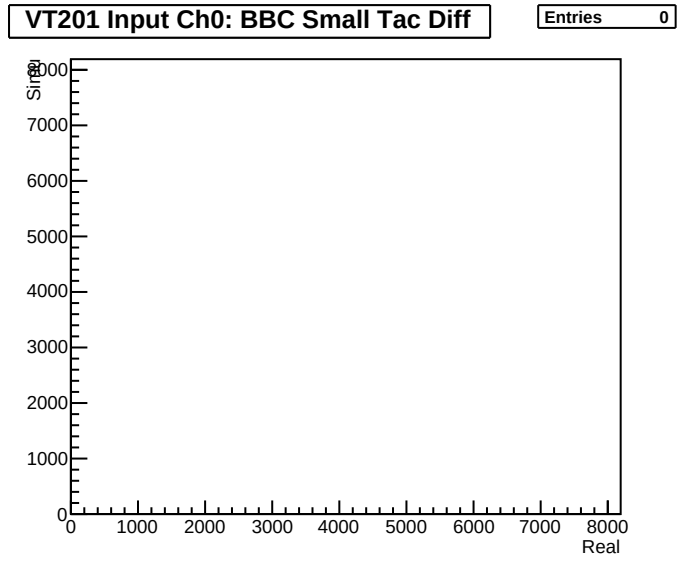

zdcWestTac
Entries 460860

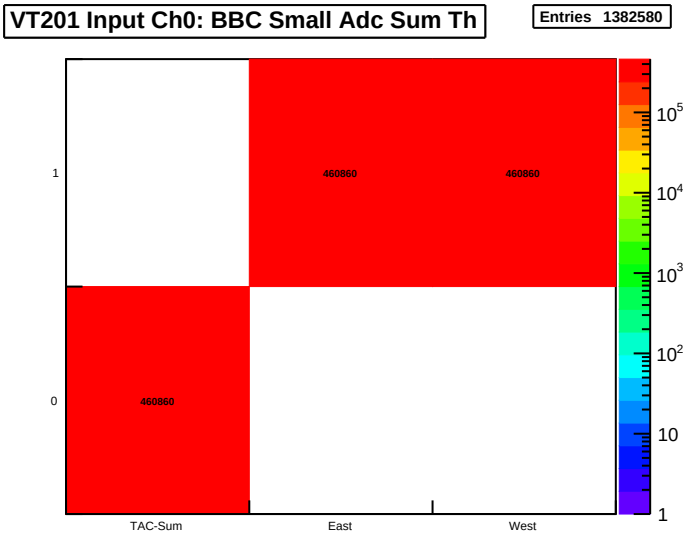

zdcWestTacVsSimu
Entries 354559
Data
Simu

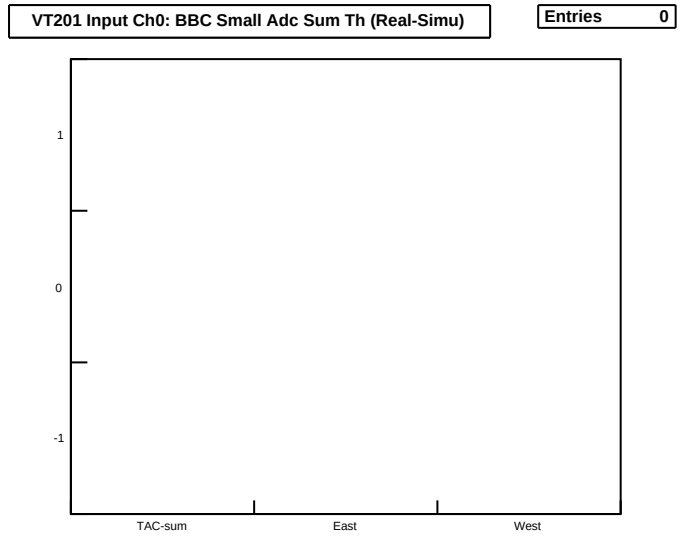

zdcAdcSum
Entries 5530320
354049
354049
169793
150198
149737
135024
350896
352821
114131
93216
99066
84721
106811
106811
291067
310662
311123
325836
109864
108239
346729
367644
361794
376139
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

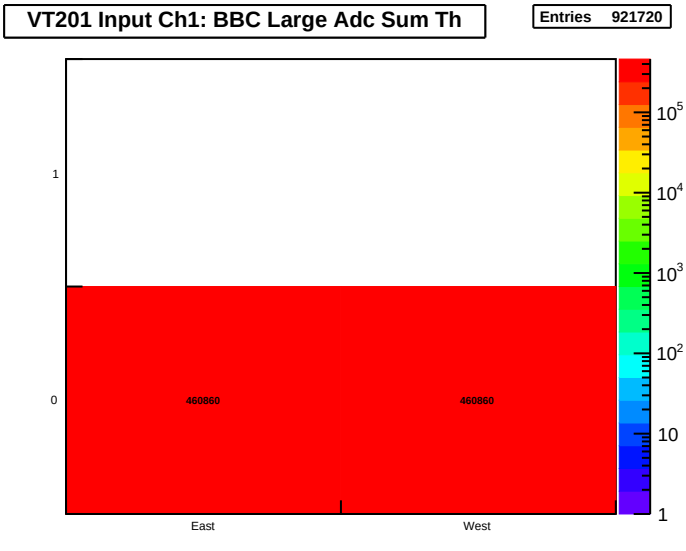

zdcAdcSumDiff
Entries 2857879
354049
354049
169793
150198
149737
135024
315450
352043
114131
304
538
237
255528
237738
260060
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

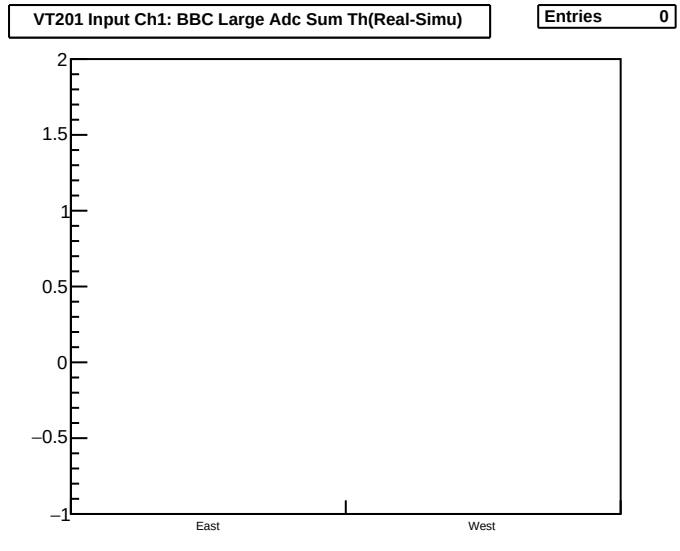

VT201 Input Ch0: BBC Small Tac Diff
Entries 460860
10^3
0 1000 2000 3000 4000 5000 6000 7000 8000
Tac


VT201 Input Ch0: BBC Small Tac Diff
Entries 0
Simu
8000 7000 6000 5000 4000 3000 2000 1000 0
0 1000 2000 3000 4000 5000 6000 7000 8000
Real

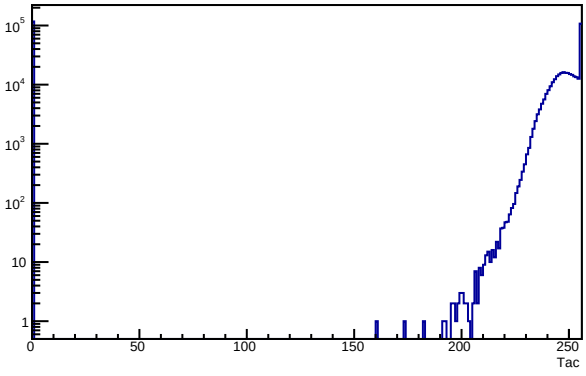

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 1382580
1
0
460860
460860
460860
TAC-Sum
East
West
10^5
10^4
10^3
10^2
10
1


VT201 Input Ch0: BBC Small Adc Sum Th (Real-Simu)
Entries 0
1
0
-1
TAC-sum
East
West

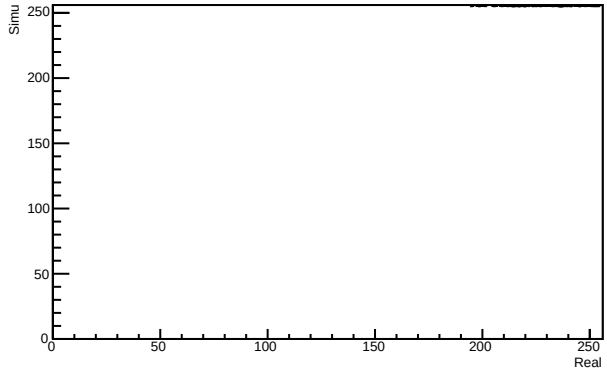

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 921720
1
0
460860
460860
East
West
10^5
10^4
10^3
10^2
10
1


VT201 Input Ch1: BBC Large Adc Sum Th(Real-Simu)
Entries 0
2
1.5
1
0.5
0
−0.5
−1
East
West

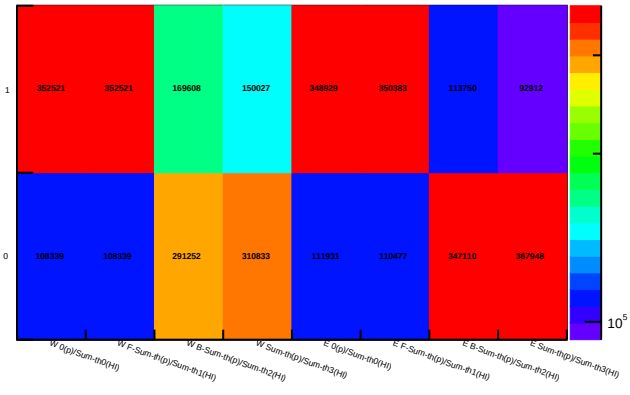
VT201 Input Ch2: ZDC Tac Diff



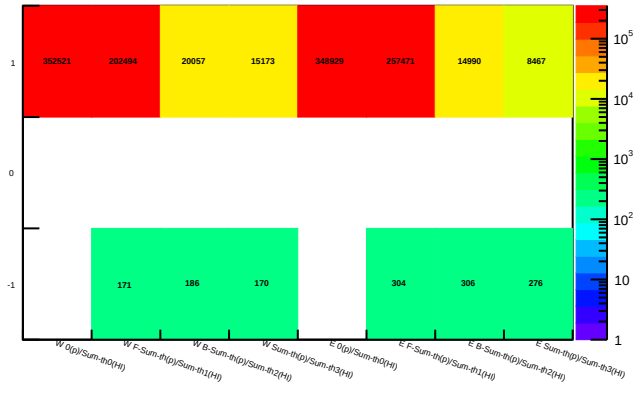
VT201 Input Ch2: ZDC Tac Diff



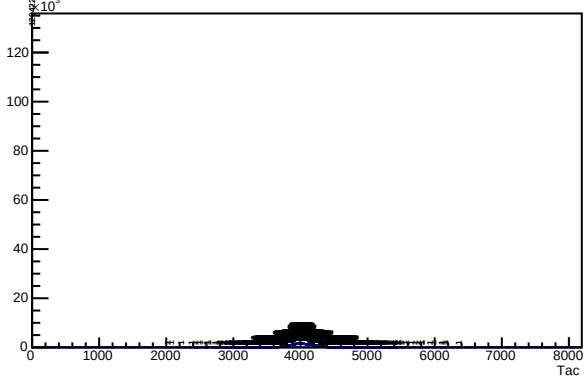
VT201 Input Ch2: ZDC Adc Sum Th



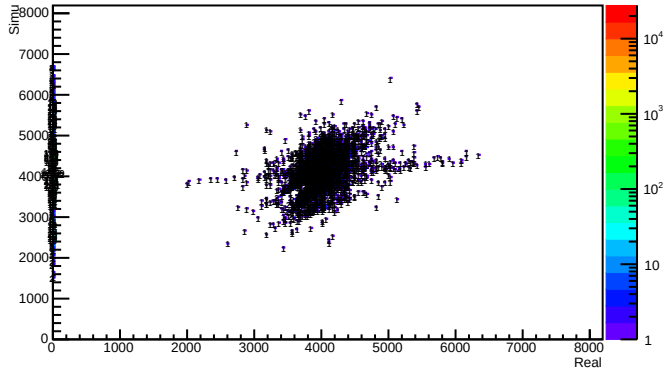
VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)



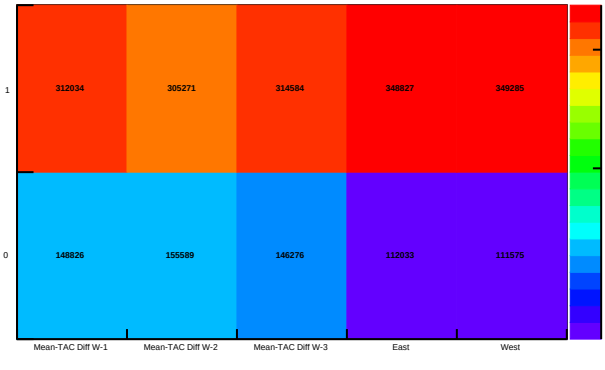
VT201 Input Ch4: VPD Tac Diff



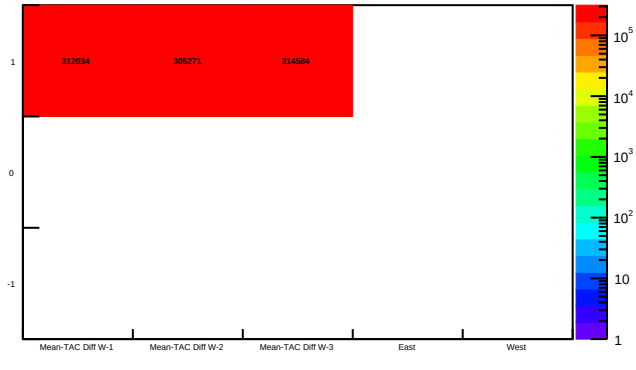
VT201 Input Ch4: VPD Tac Diff

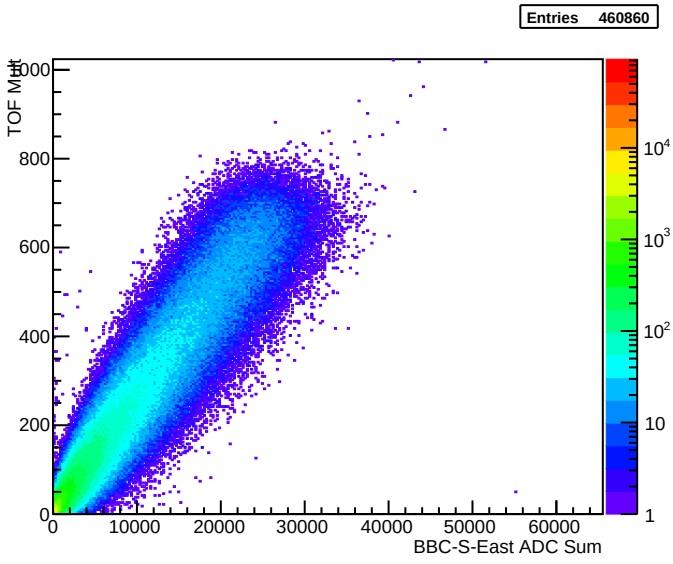


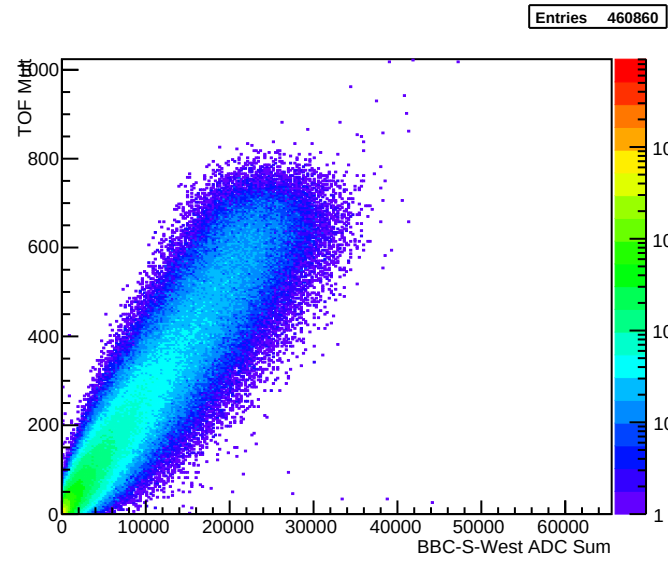
VT201 Input Ch4: VPD Adc Sum Th

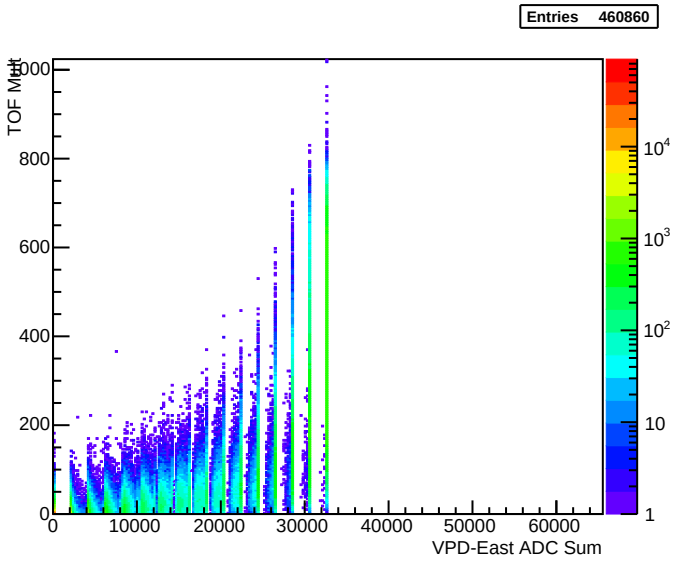


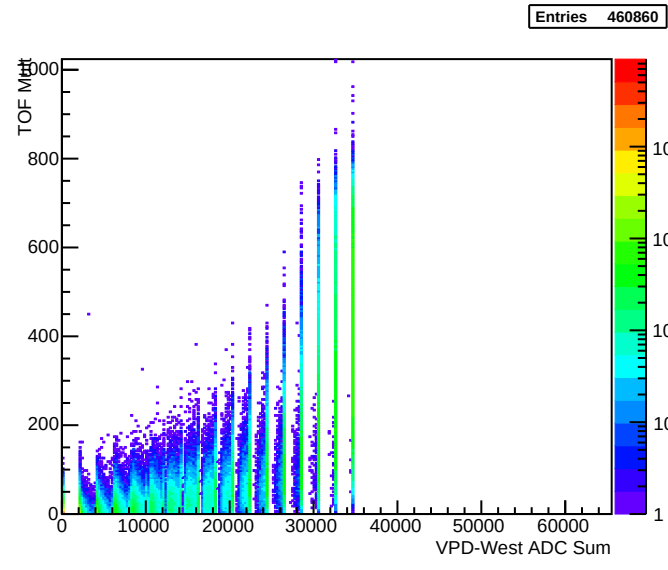
VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)

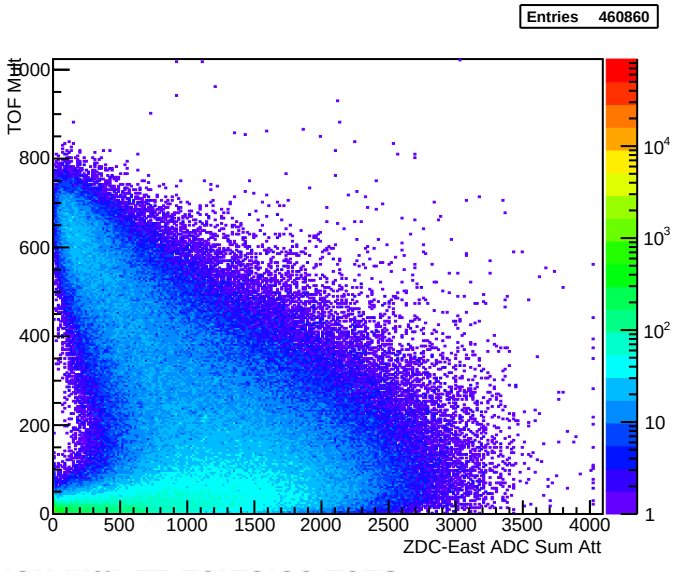


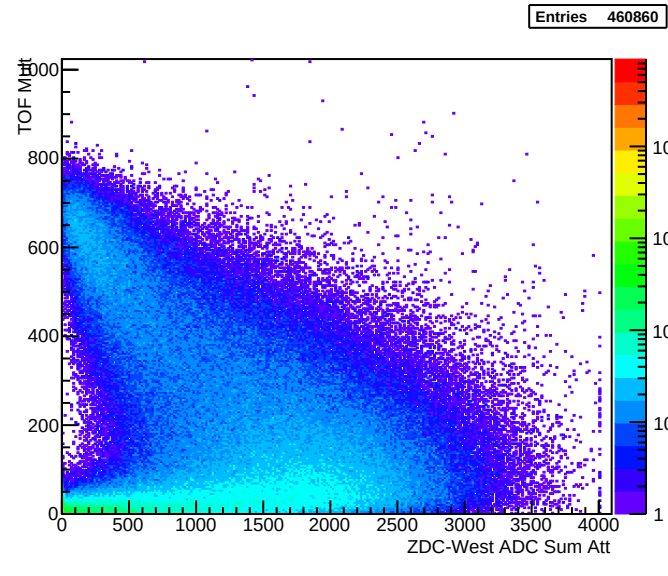

Entries 460860
TOF Mult
BBC-S-East ADC Sum

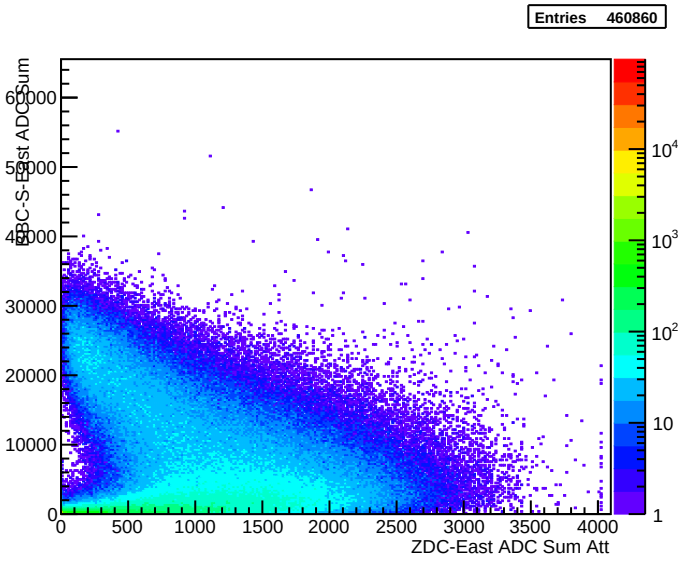

Entries 460860
TOF Mult
BBC-S-West ADC Sum

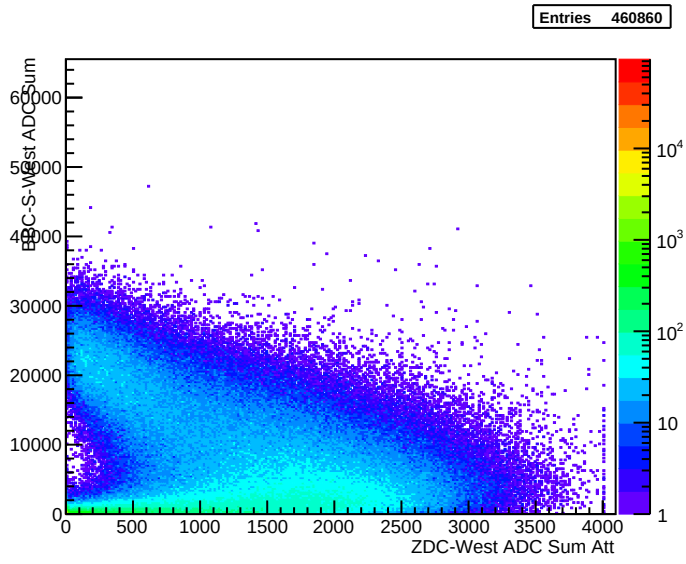

Entries 460860
TOF Mult
VPD-East ADC Sum

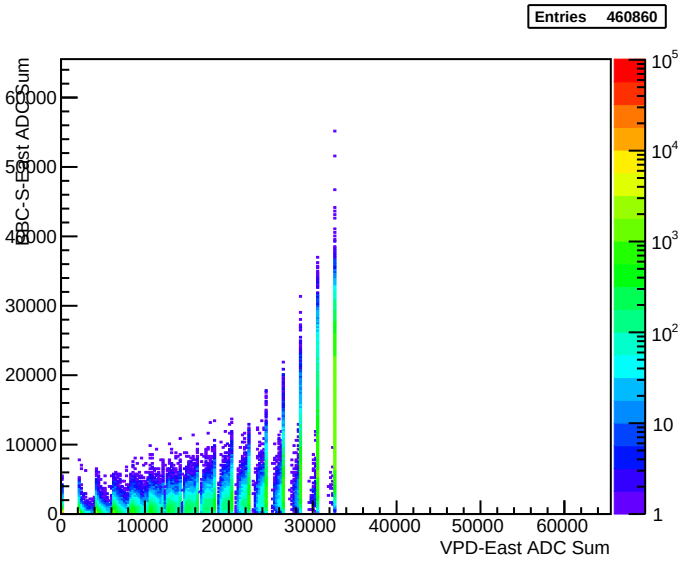

Entries 460860
TOF Mult
VPD-West ADC Sum

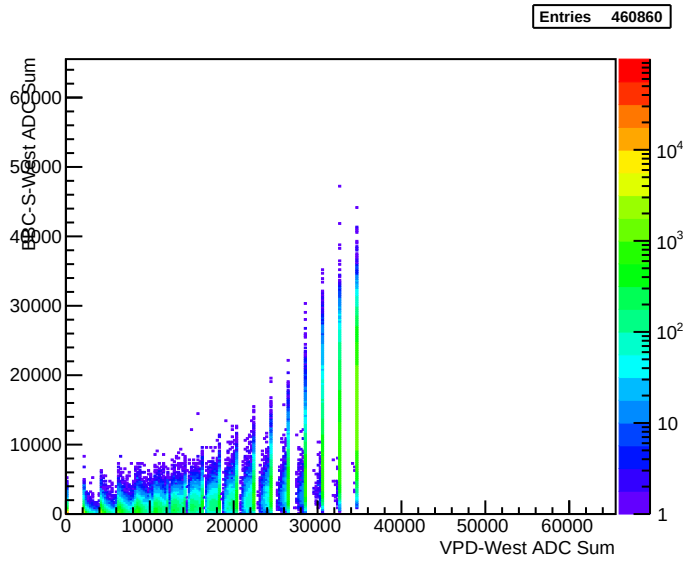

Entries 460860
TOF Mult
ZDC-East ADC Sum Att

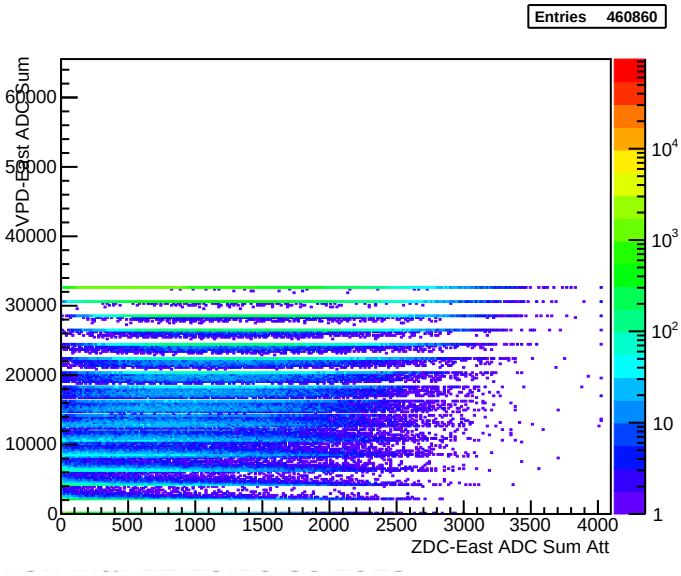

Entries 460860
TOF Mult
ZDC-West ADC Sum Att

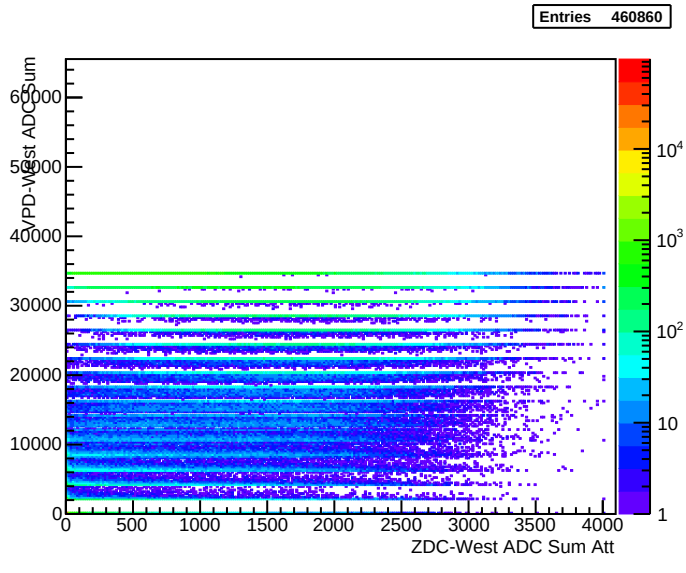

Entries 460860
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

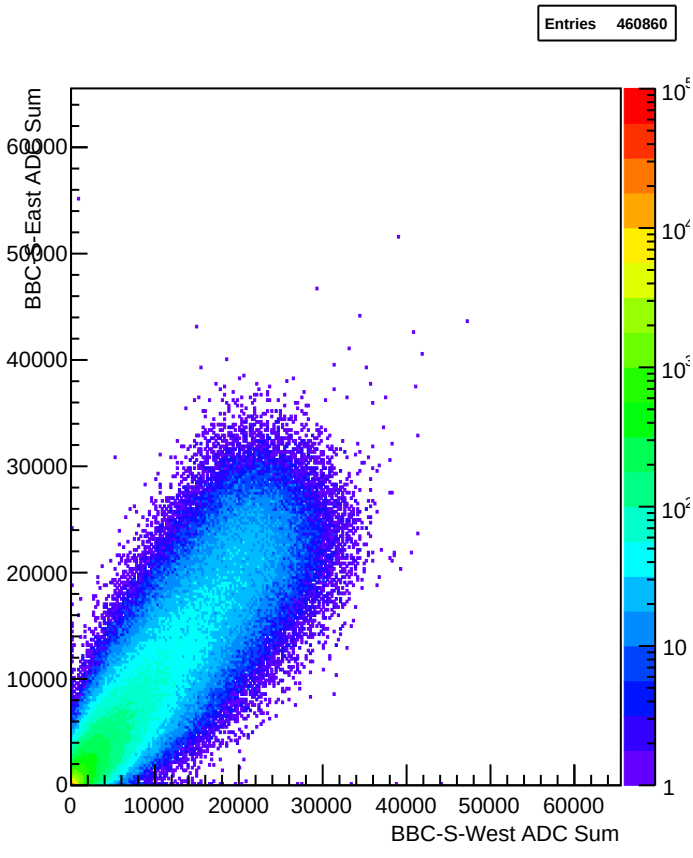

Entries 460860
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

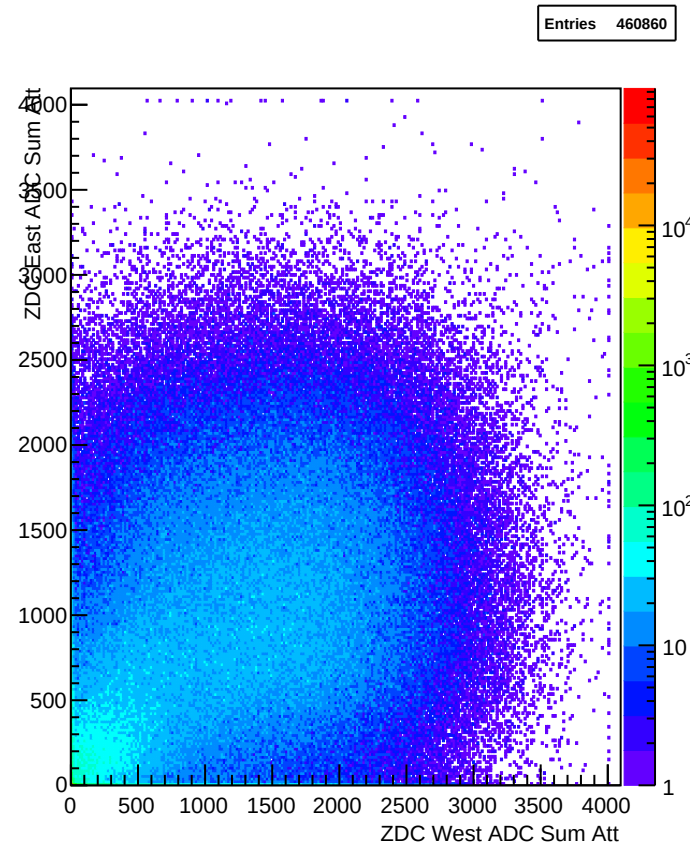

Entries 460860
BBC-S-East ADC Sum
VPD-East ADC Sum

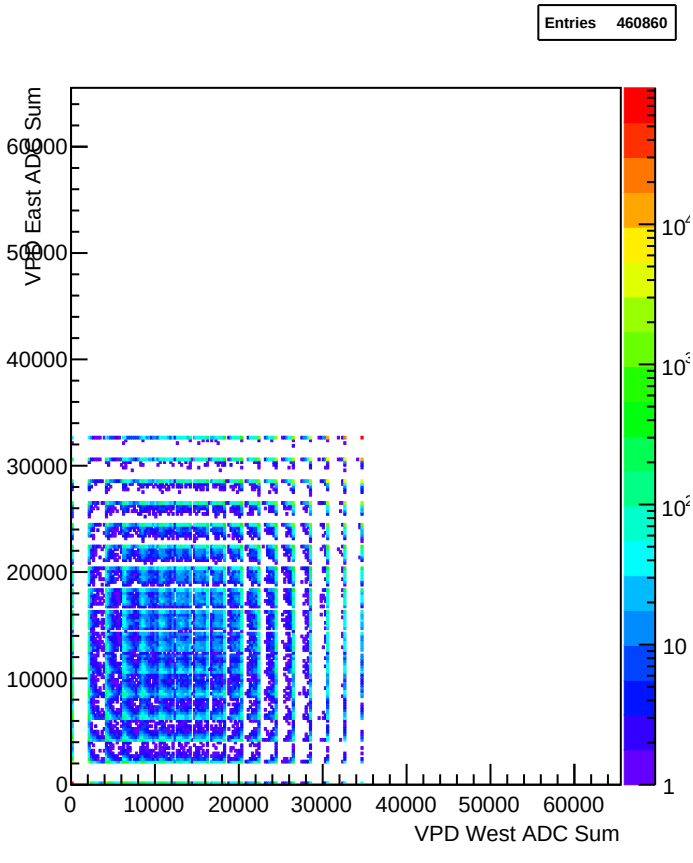

Entries 460860
BBC-S-West ADC Sum
VPD-West ADC Sum

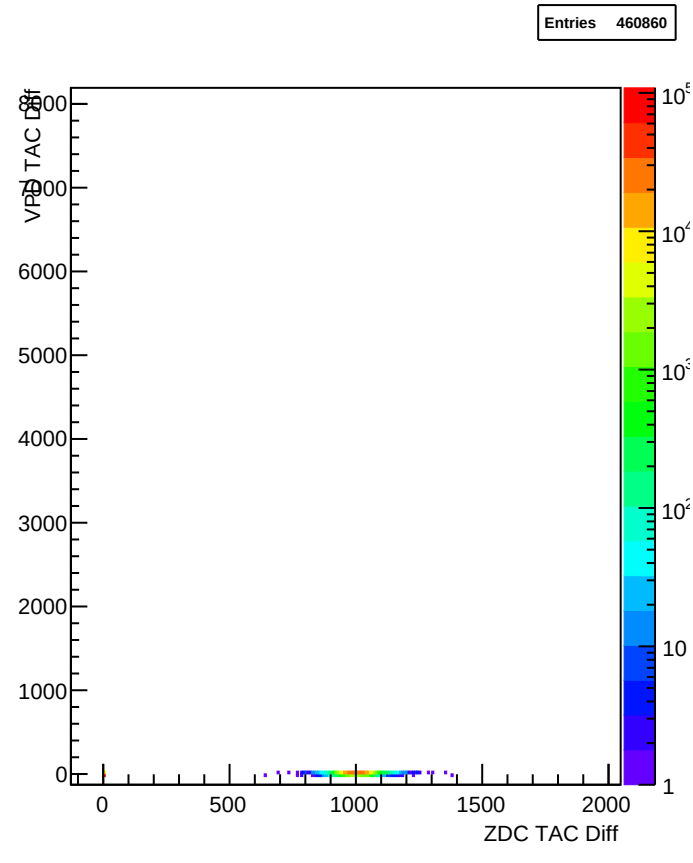

Entries 460860
VPD-East ADC Sum
ZDC-East ADC Sum Att

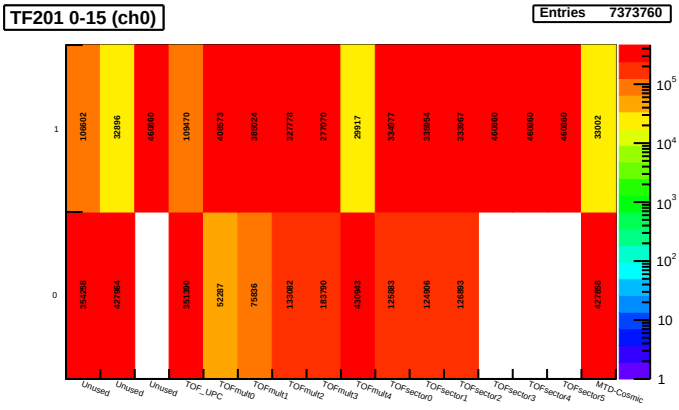

Entries 460860
VPD-West ADC Sum
ZDC-West ADC Sum Att

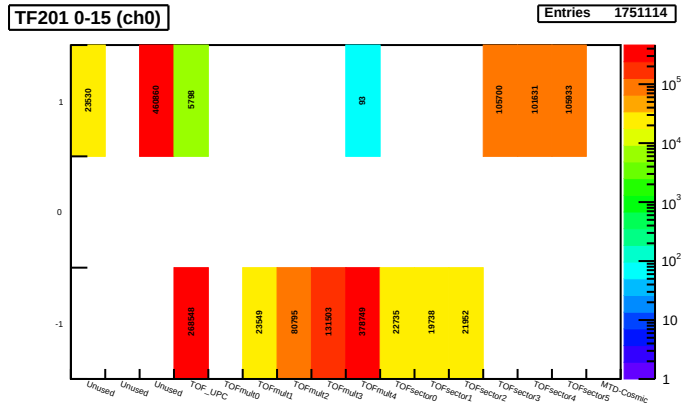

Entries 460860
BBC-S-East ADC Sum
BBC-S-West ADC Sum

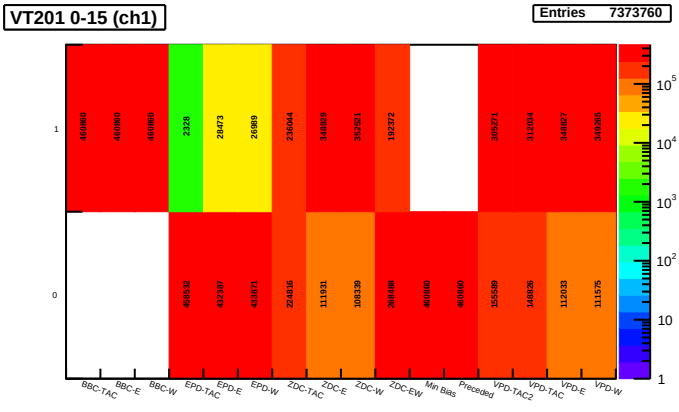

Entries 460860
ZDC East ADC Sum Att
ZDC West ADC Sum Att

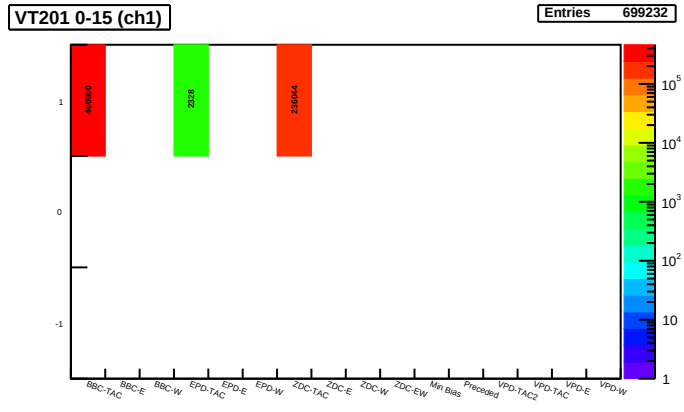

Entries 460860
VPD East ADC Sum
VPD West ADC Sum

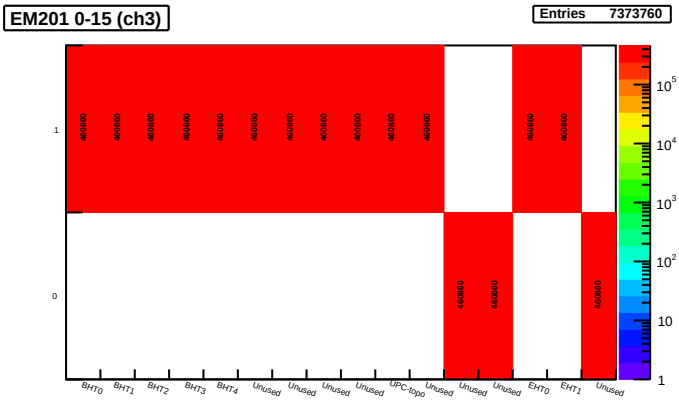

Entries 460860
VPD TAC Diff
ZDC TAC Diff

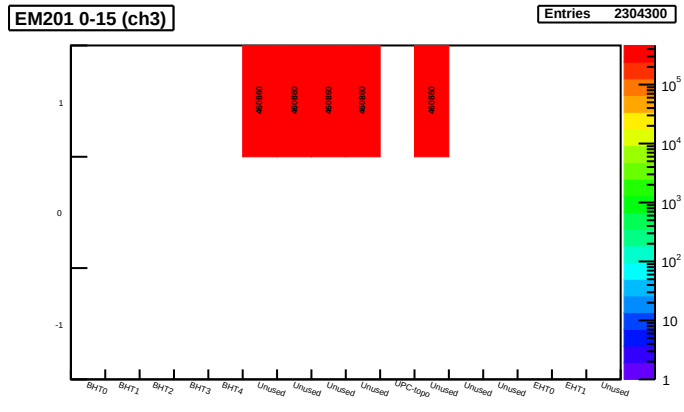

TF201 0-15 (ch0)
Entries 7373760
Unused
Unused
Unused
TOF_-UPC
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic

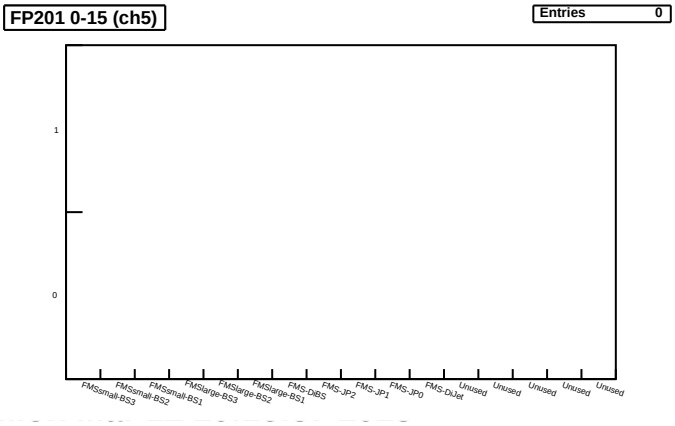

TF201 0-15 (ch0)
Entries 1751114
Unused
Unused
Unused
TOF_-UPC
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic

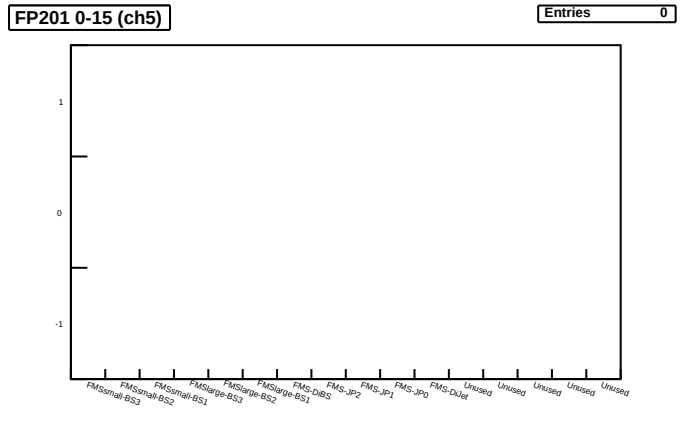

VT201 0-15 (ch1)
Entries 7373760
BBC-TAC
BBC-E
BBC-W
EPD-TAC
EPD-E
EPD-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-EW
Min Bias
Preceded
VPD-TAC2
VPD-TAC
VPD-E
VPD-W


VT201 0-15 (ch1)
Entries 699232
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 7373760
BHT0
BHT1
BHT2
BHT3
BHT4
Unused
Unused
Unused
Unused
UPC-topo
Unused
Unused
Unused
EHT0
EHT1
Unused


EM201 0-15 (ch3)
Entries 2304300
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