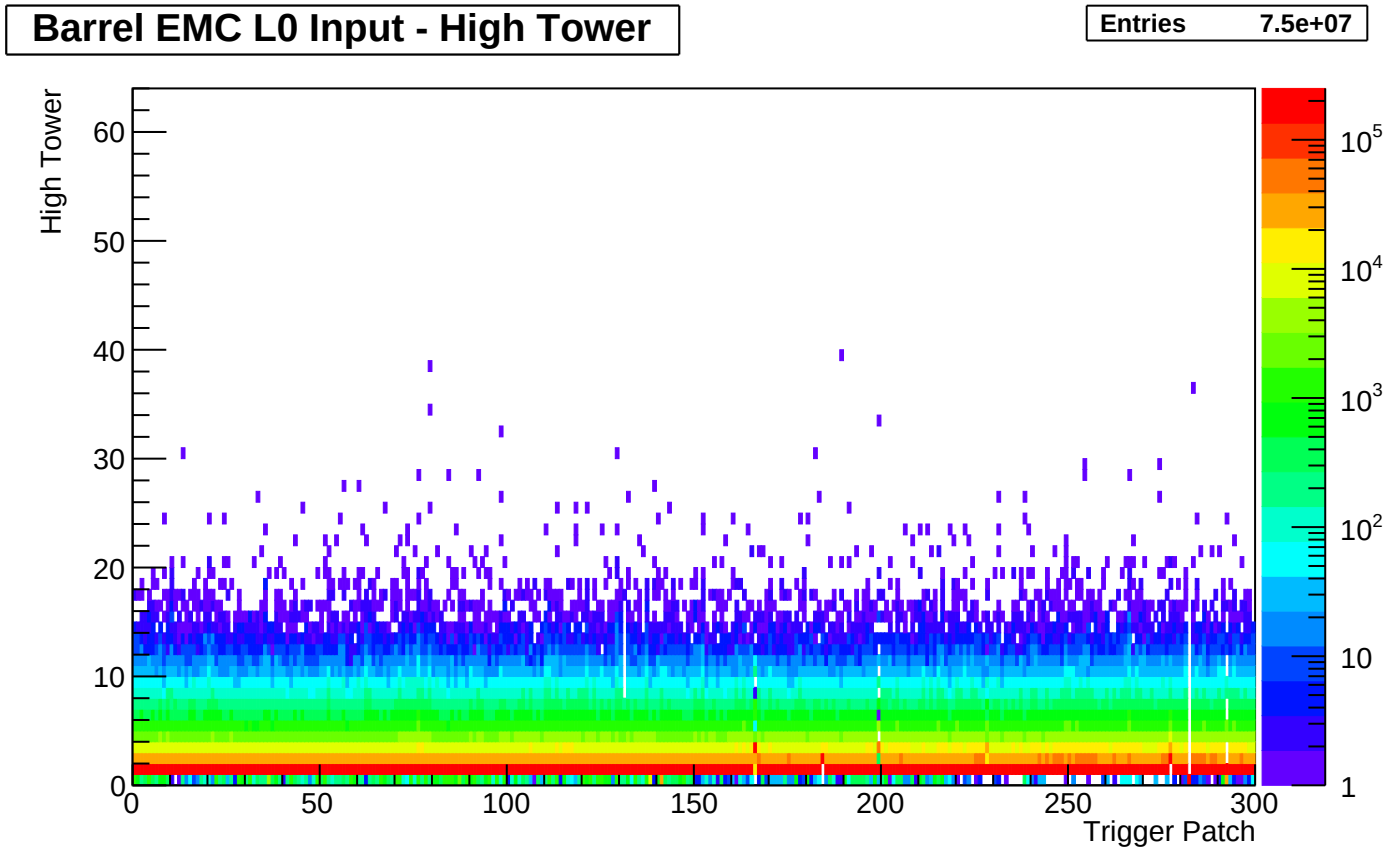
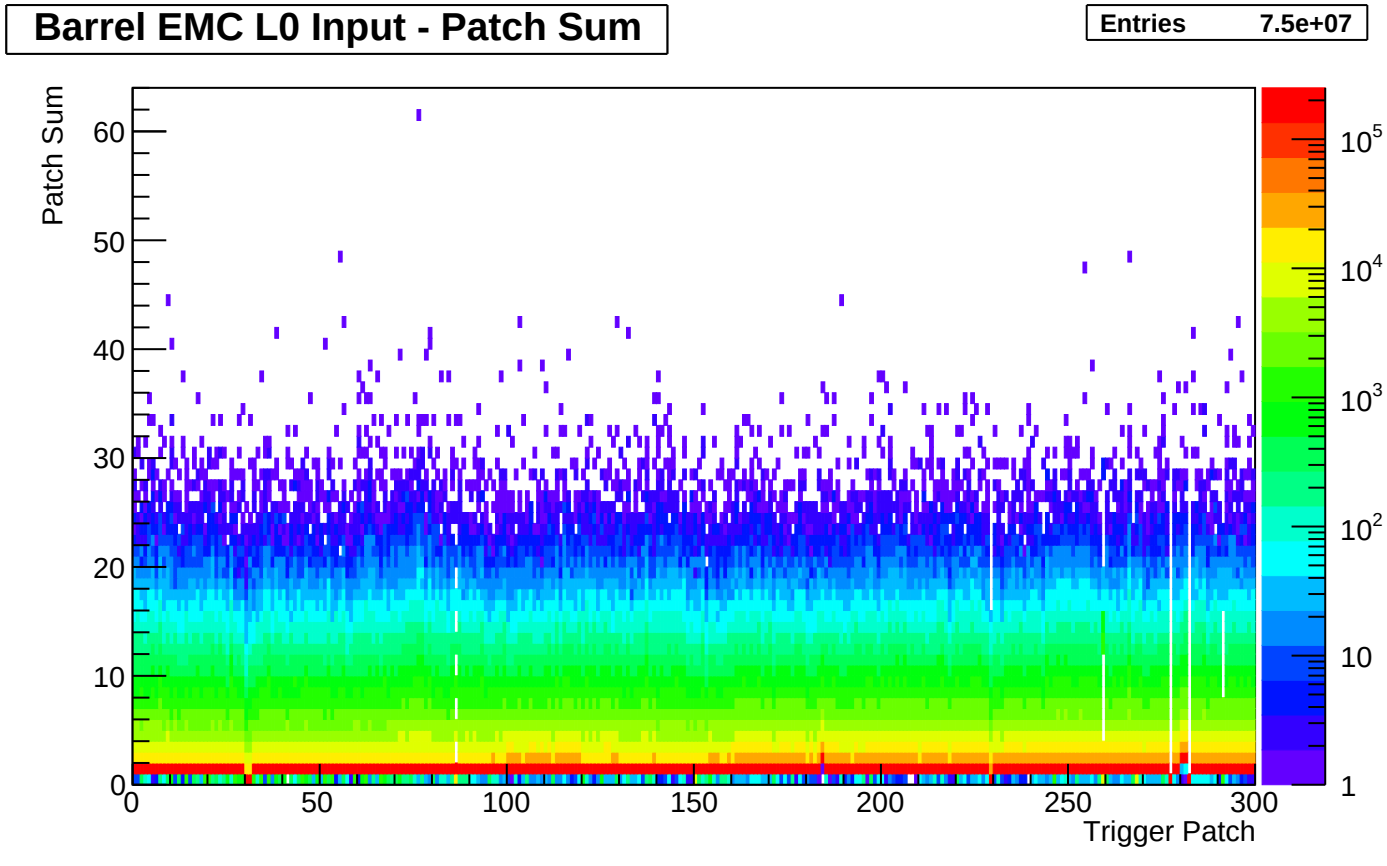
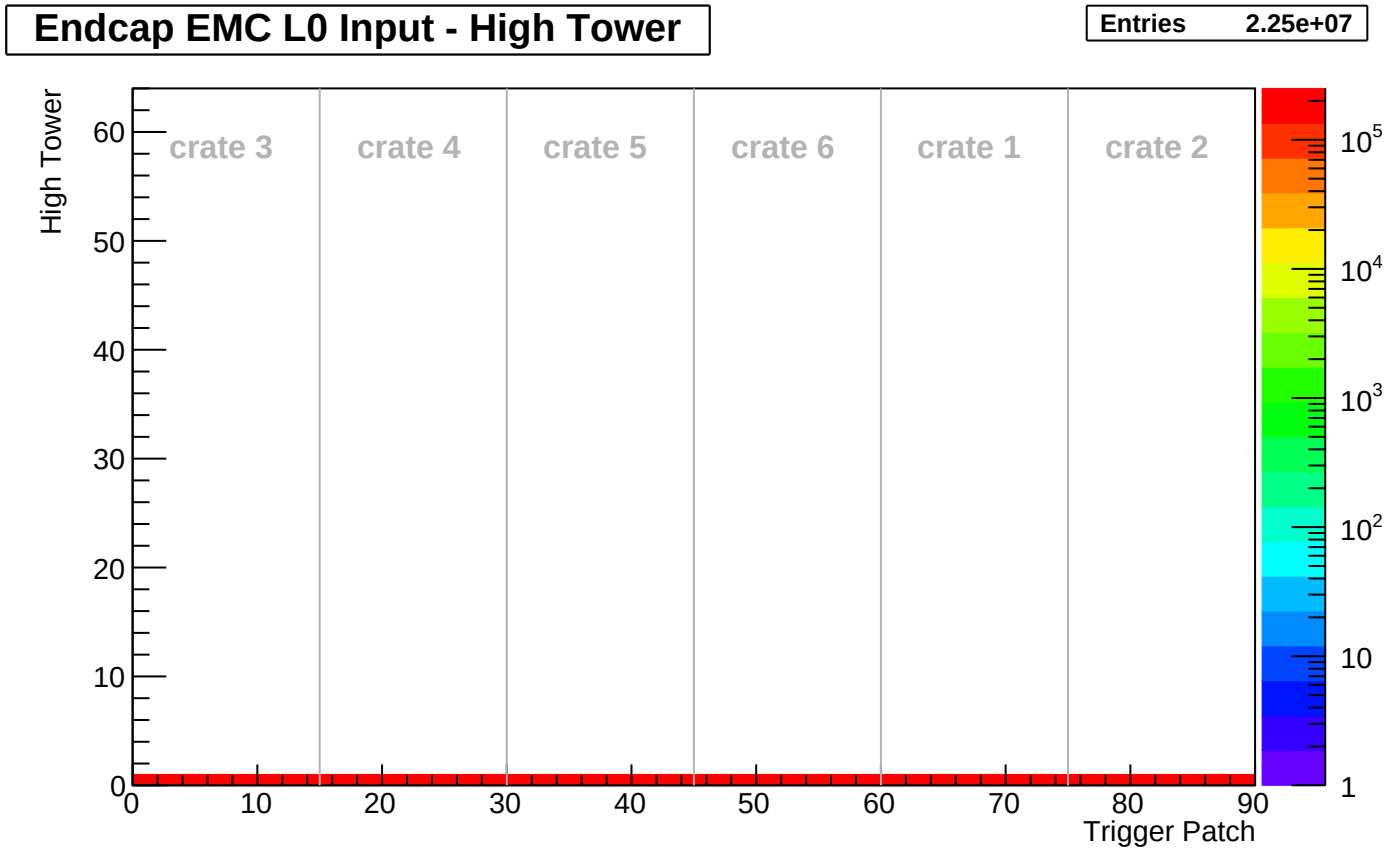
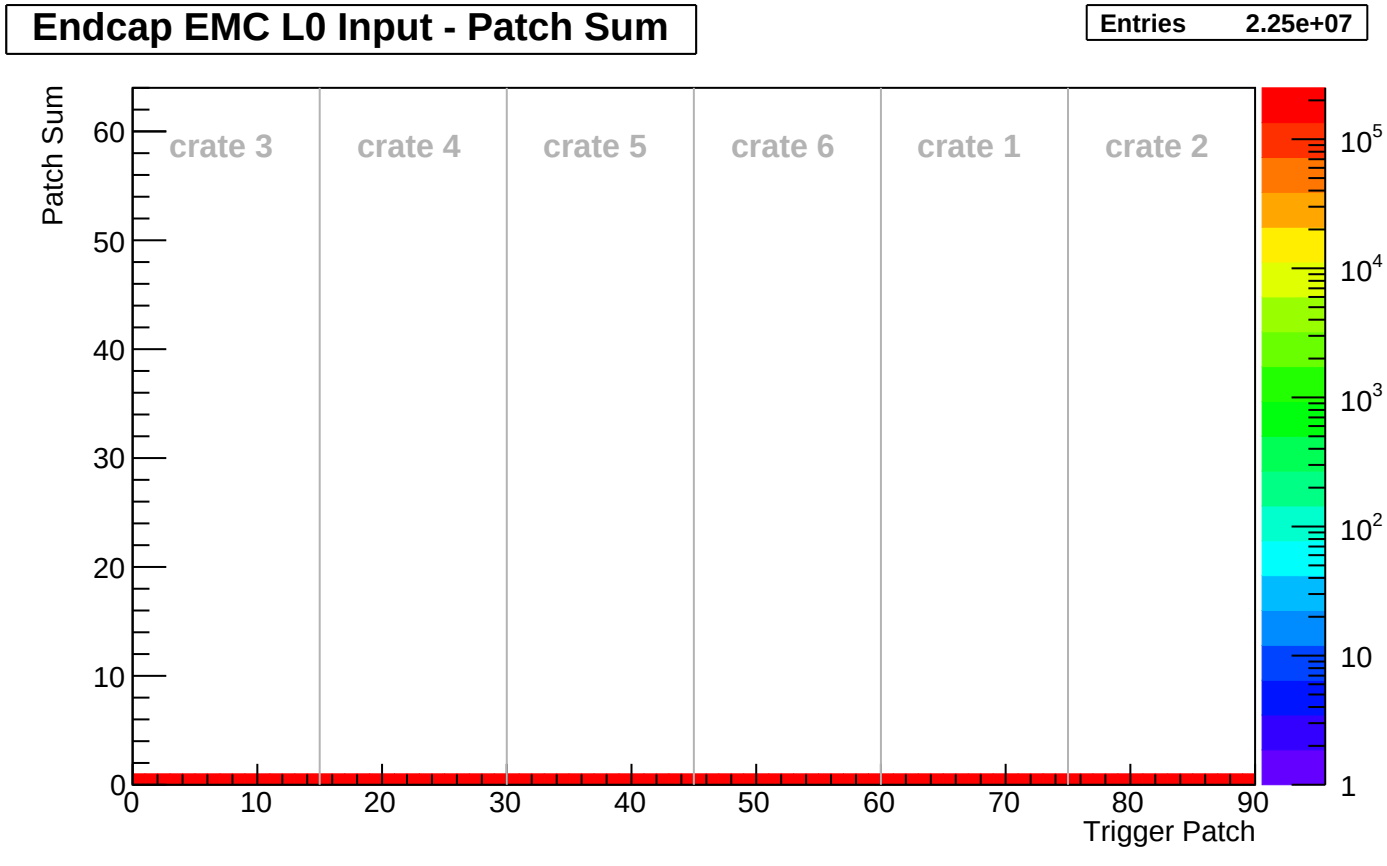
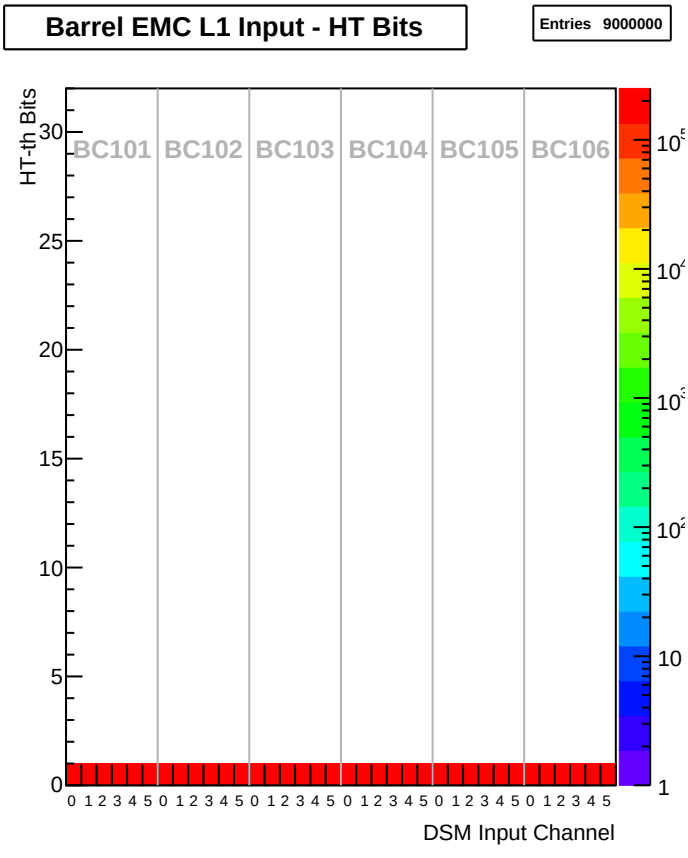
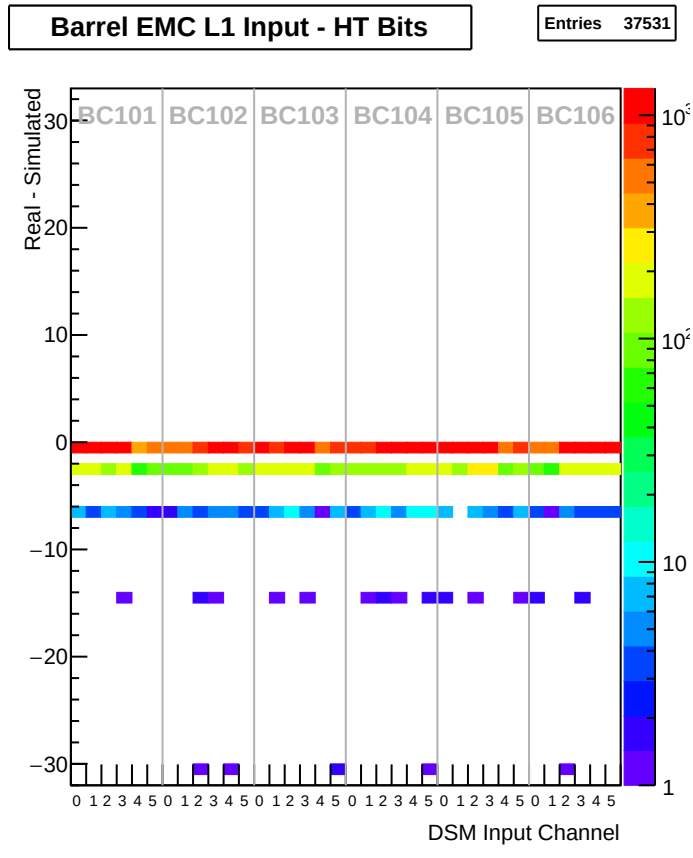

Barrel EMC L0 Input - High Tower
Entries 7.5e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

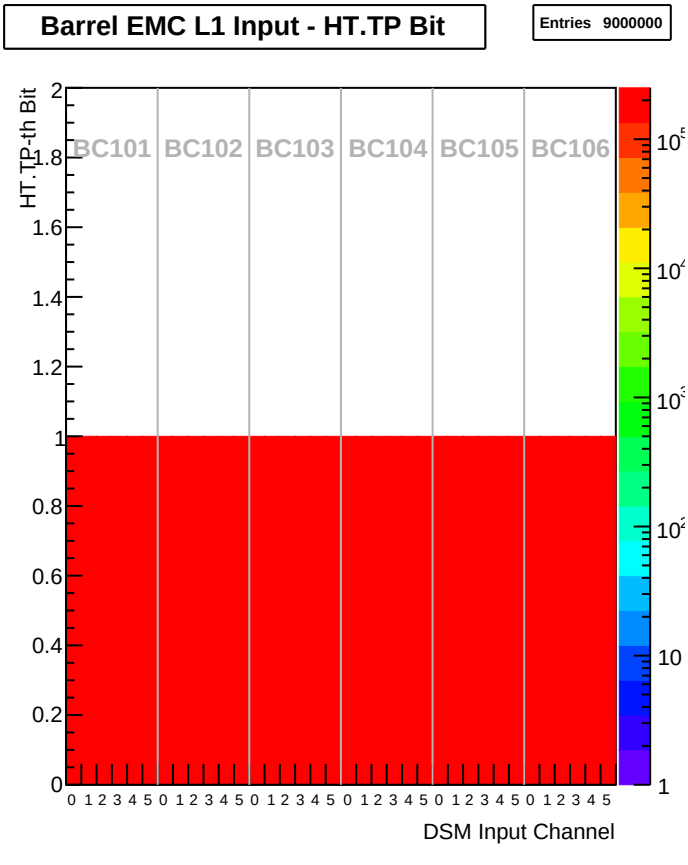

Barrel EMC L0 Input - Patch Sum
Entries 7.5e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

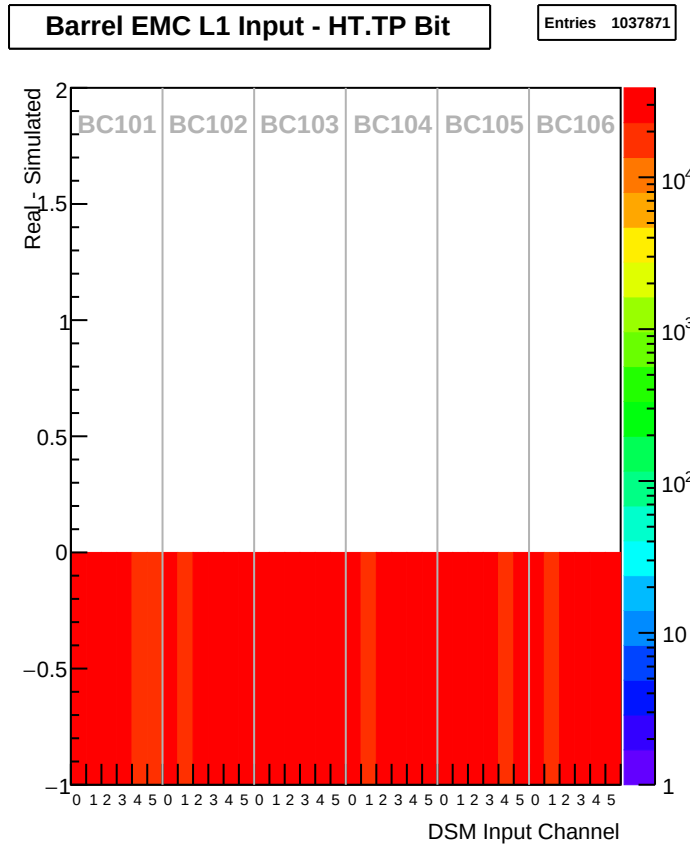

Endcap EMC L0 Input - High Tower
Entries 2.25e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

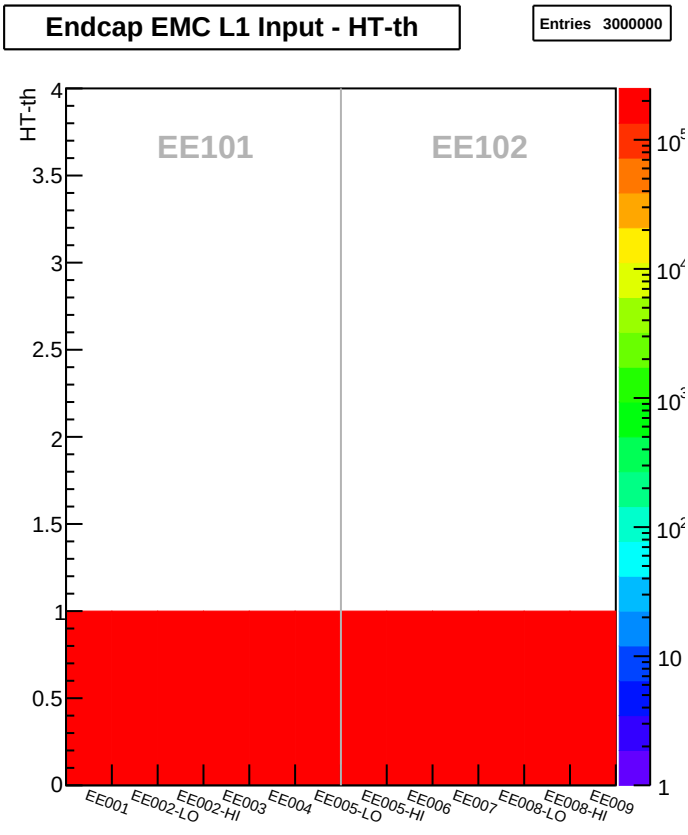

Endcap EMC L0 Input - Patch Sum
Entries 2.25e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

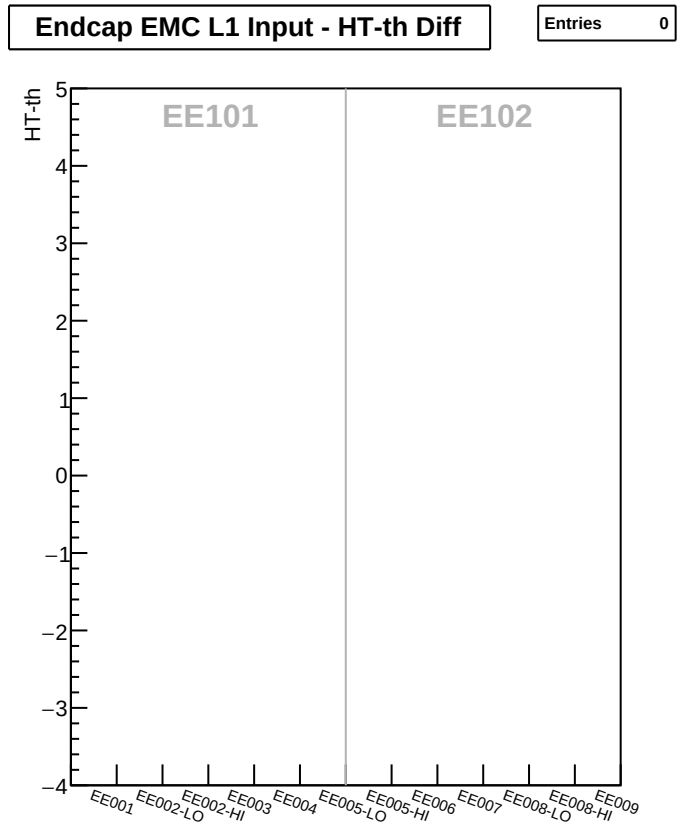

Barrel EMC L1 Input - HT Bits
Entries 9000000
HT-th Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

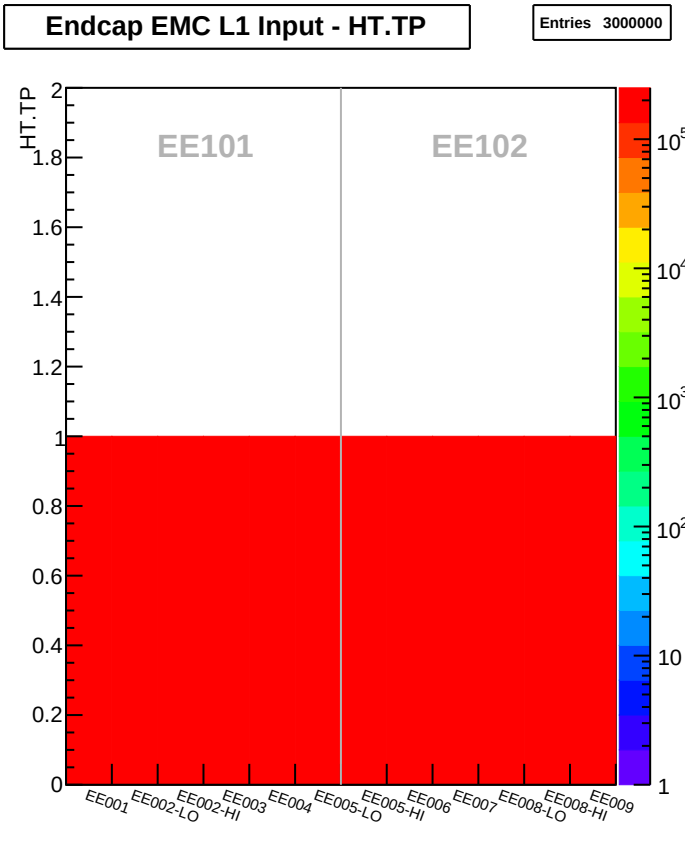

Barrel EMC L1 Input - HT Bits
Entries 37531
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

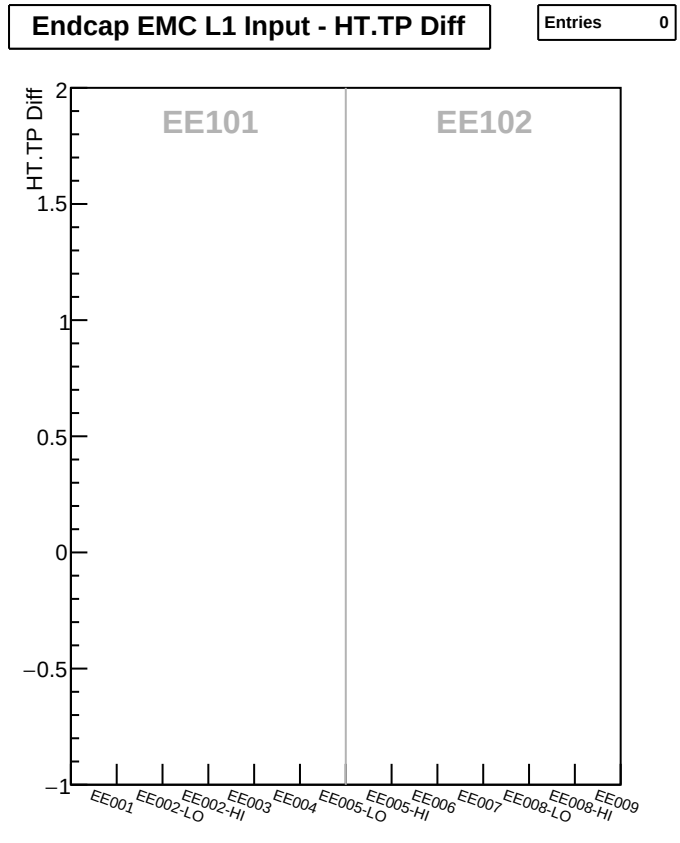

Barrel EMC L1 Input - HT.TP Bit
Entries 9000000
HT.TP-th Bit
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

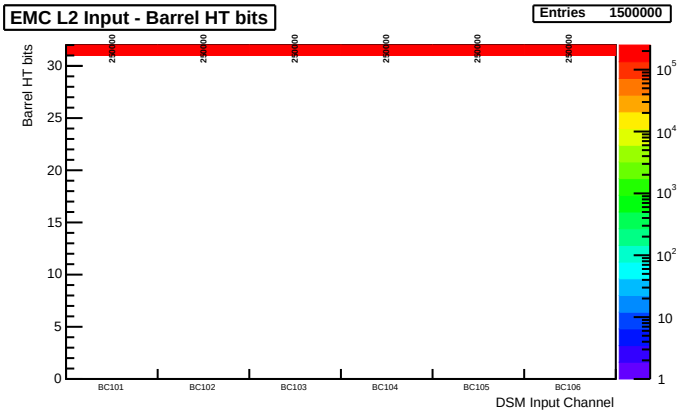

Barrel EMC L1 Input - HT.TP Bit
Entries 1037871
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

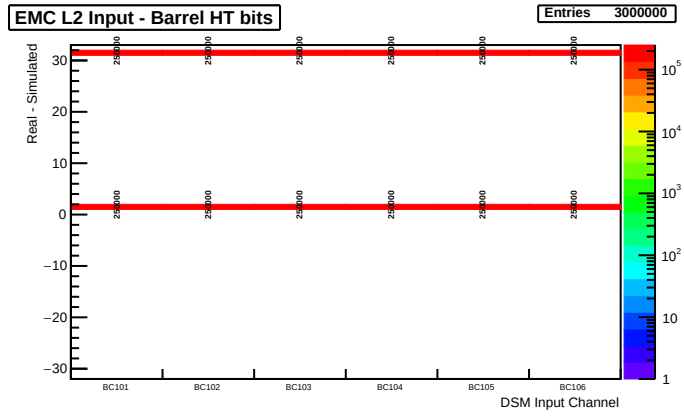

Endcap EMC L1 Input - HT-th
Entries 3000000
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

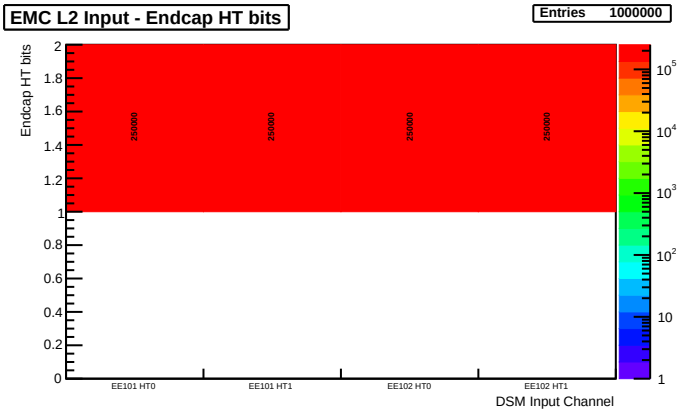

Endcap EMC L1 Input - HT-th Diff
Entries 0
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

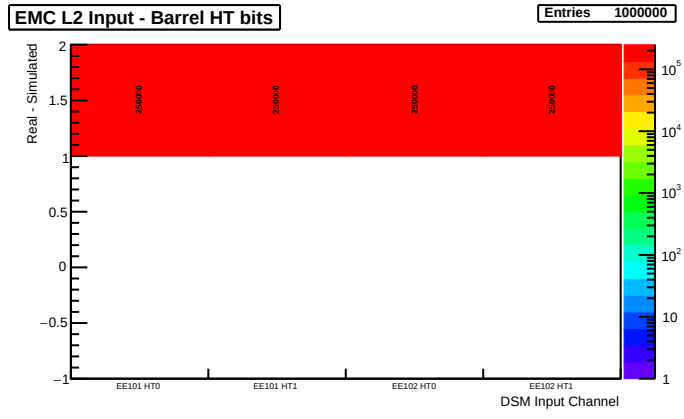

Endcap EMC L1 Input - HT.TP
Entries 3000000
HT.TP
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

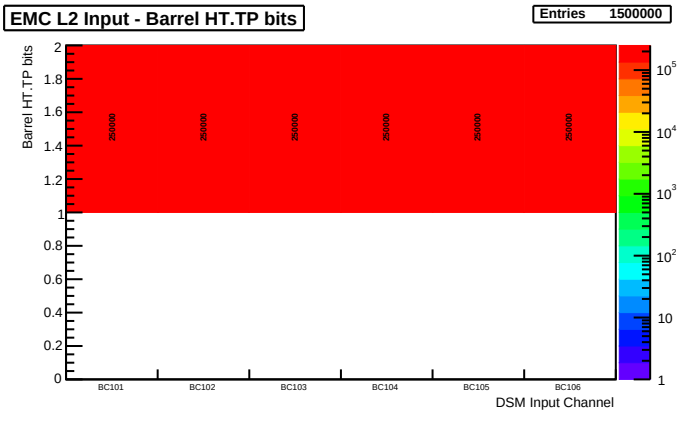

Endcap EMC L1 Input - HT.TP Diff
Entries 0
HT.TP Diff
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

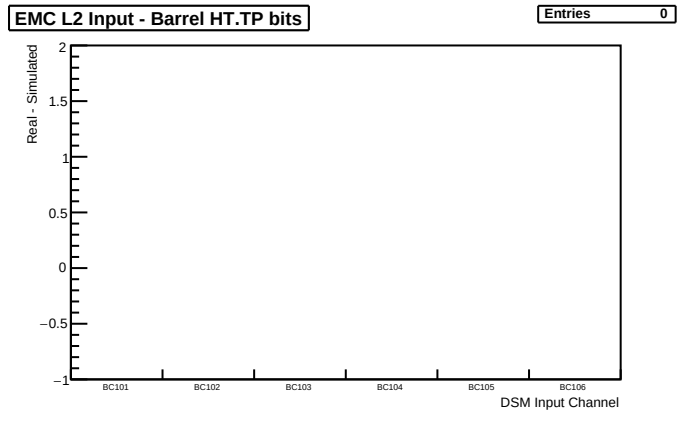

EMC L2 Input - Barrel HT bits
Entries 1500000
Barrel HT bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
250000

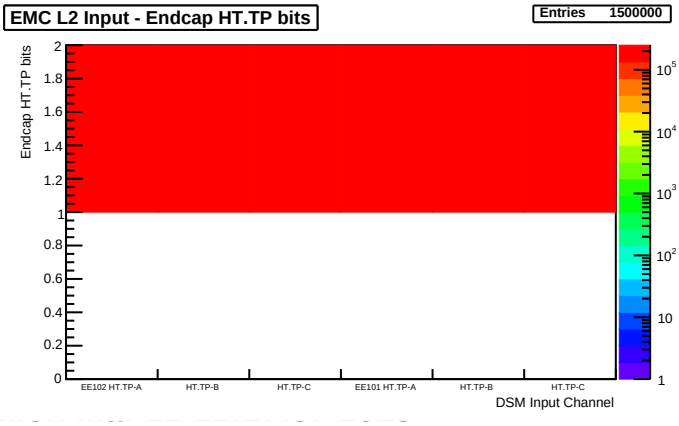

EMC L2 Input - Barrel HT bits
Entries 3000000
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
250000

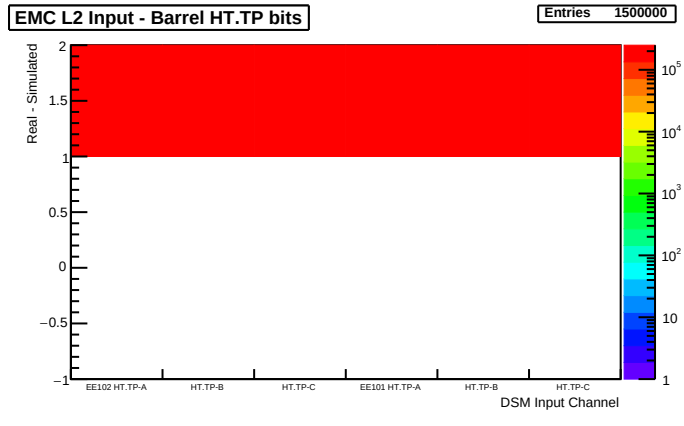

EMC L2 Input - Endcap HT bits
Entries 1000000
Endcap HT bits
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1
250000

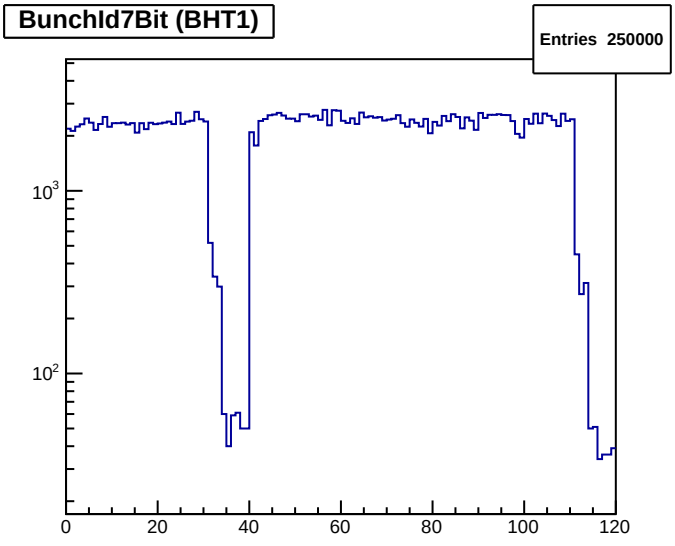

EMC L2 Input - Barrel HT bits
Entries 1000000
Real - Simulated
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1
250000

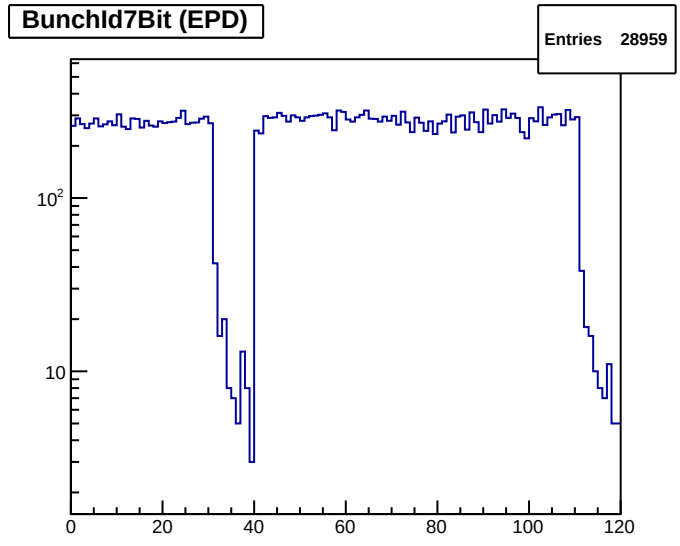

EMC L2 Input - Barrel HT.TP bits
Entries 1500000
Barrel HT.TP bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106
250000

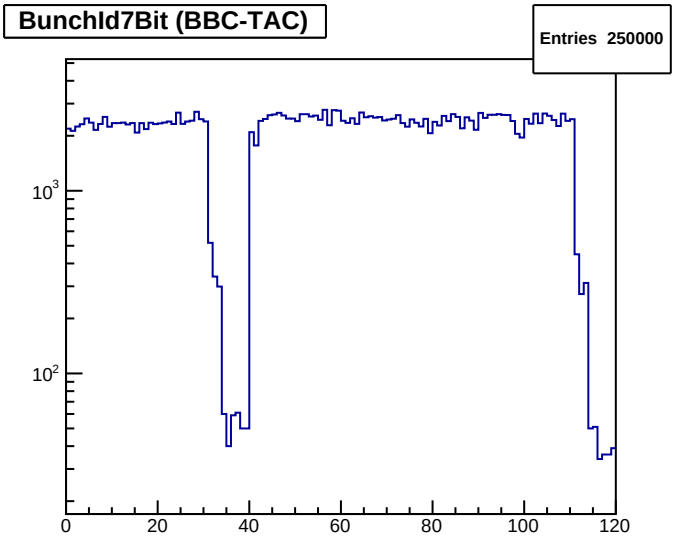

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

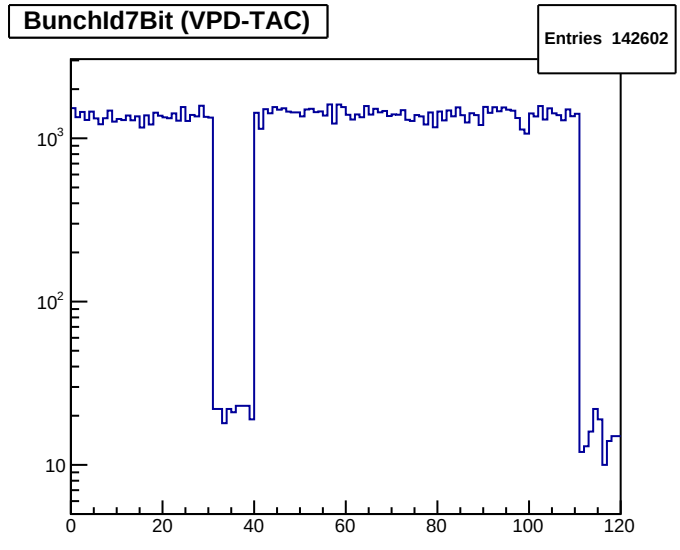

EMC L2 Input - Endcap HT.TP bits
Entries 1500000
Endcap HT.TP bits
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C
250000

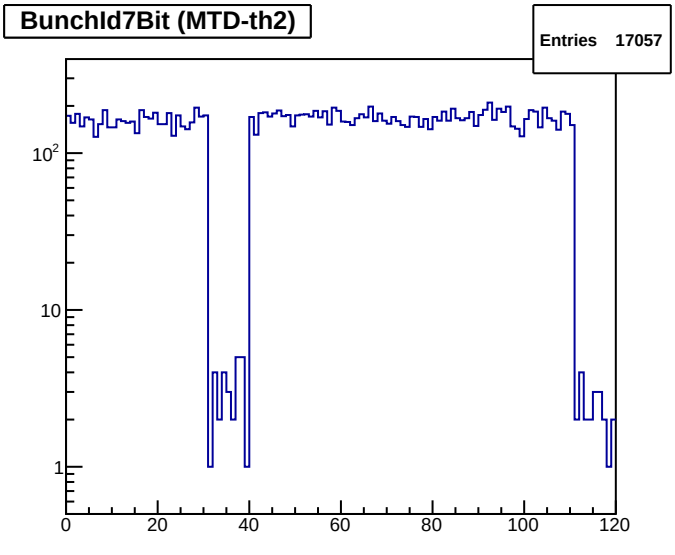

EMC L2 Input - Barrel HT.TP bits
Entries 1500000
Real - Simulated
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

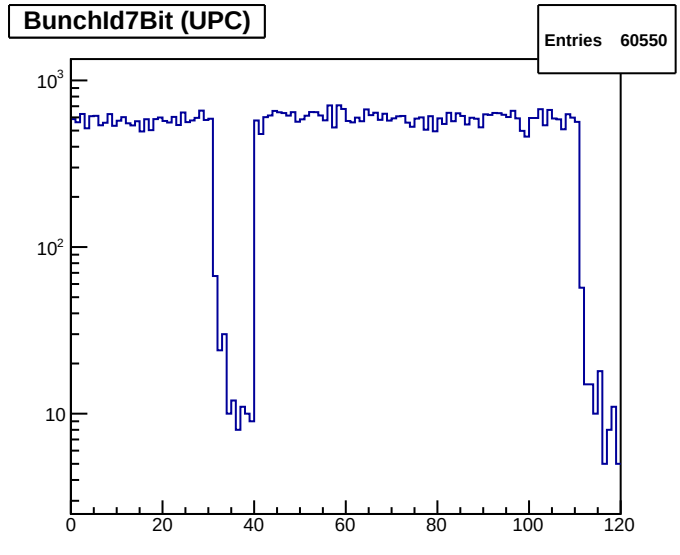

BunchId7Bit (BHT1)
Entries 250000
10^3
10^2
0 20 40 60 80 100 120

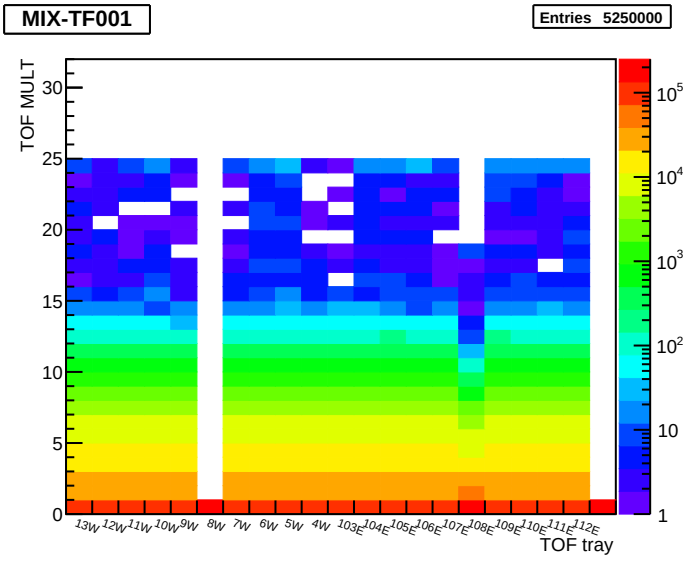

BunchId7Bit (EPD)
Entries 28959
10^2
10
0 20 40 60 80 100 120

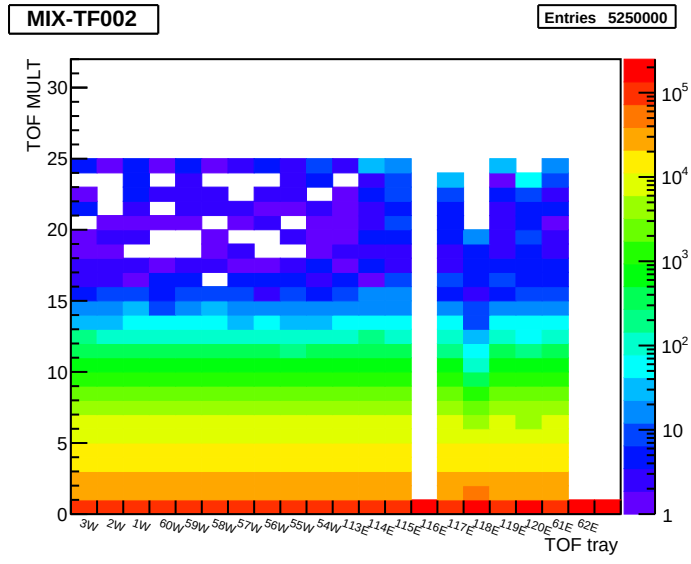

BunchId7Bit (BBC-TAC)
Entries 250000
10^3
10^2
0 20 40 60 80 100 120

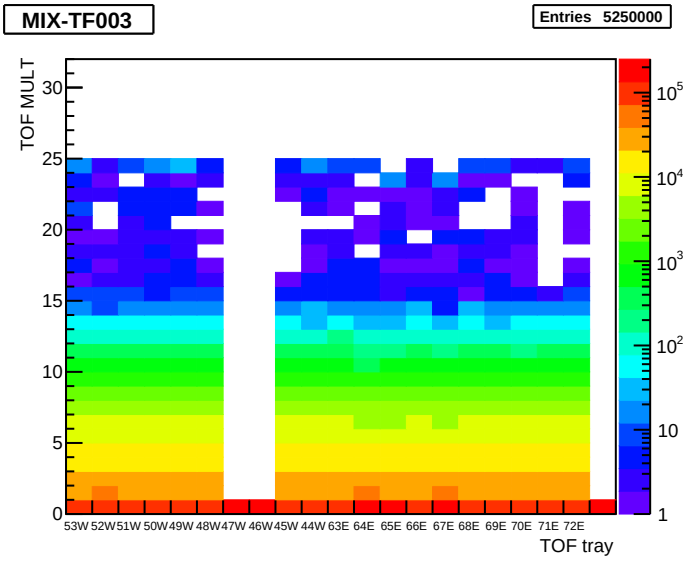

BunchId7Bit (VPD-TAC)
Entries 142602
10^3
10^2
10
0 20 40 60 80 100 120

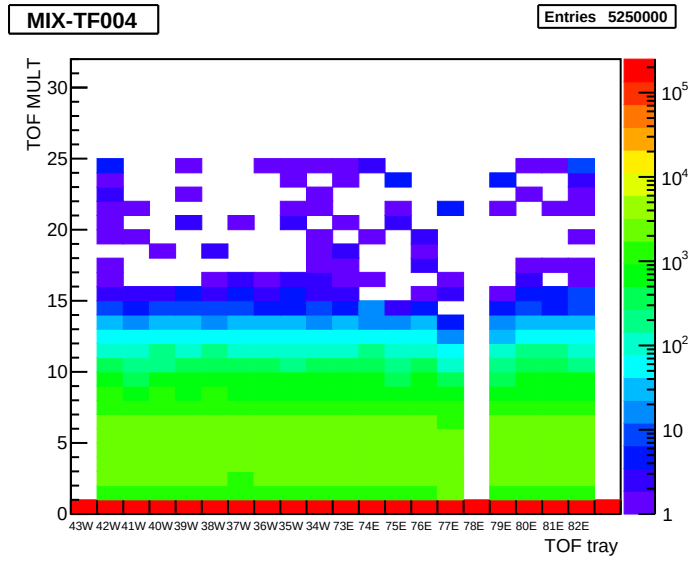

BunchId7Bit (MTD-th2)
Entries 17057
10^2
10
1
0 20 40 60 80 100 120

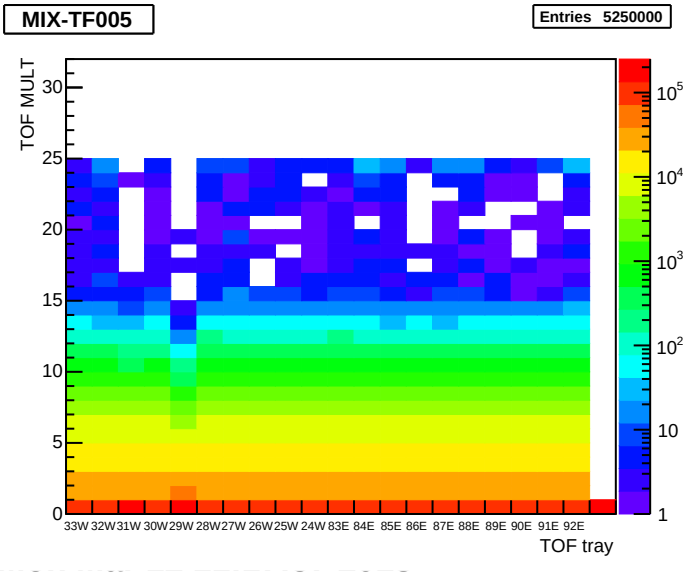

BunchId7Bit (UPC)
Entries 60550
10^3
10^2
10
0 20 40 60 80 100 120

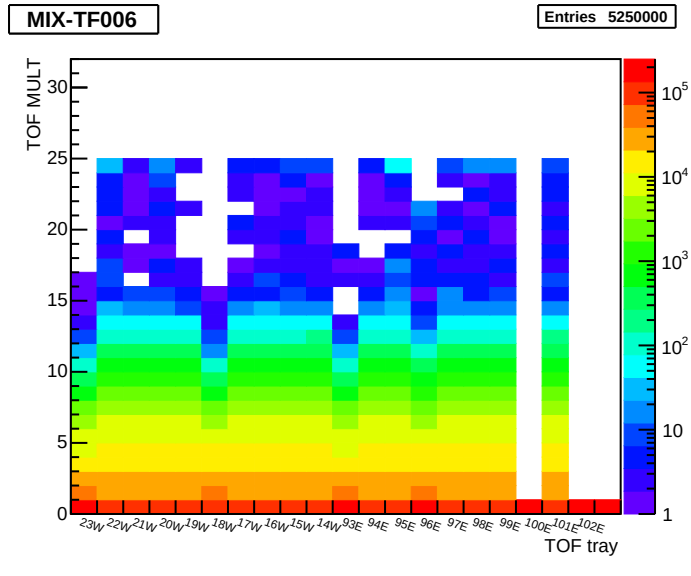

MIX-TF001
Entries 5250000
TOF MULT
TOF tray

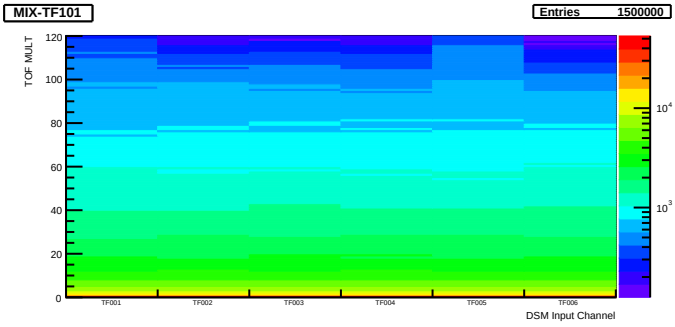

MIX-TF002
Entries 5250000
TOF MULT
TOF tray

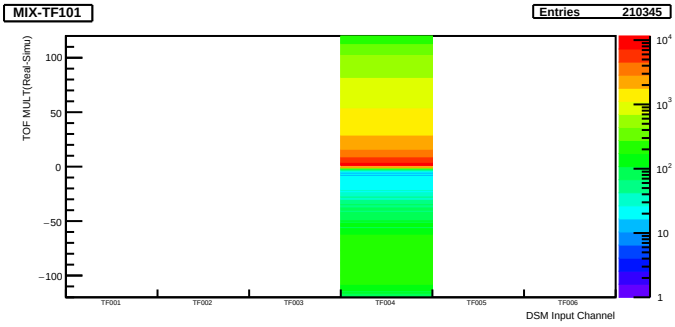

MIX-TF003
Entries 5250000
TOF MULT
TOF tray

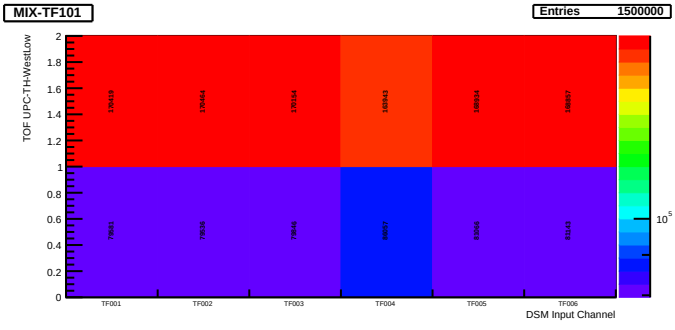

MIX-TF004
Entries 5250000
TOF MULT
TOF tray

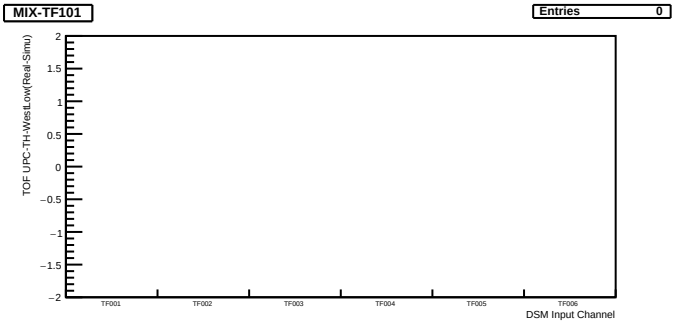

MIX-TF005
Entries 5250000
TOF MULT
TOF tray

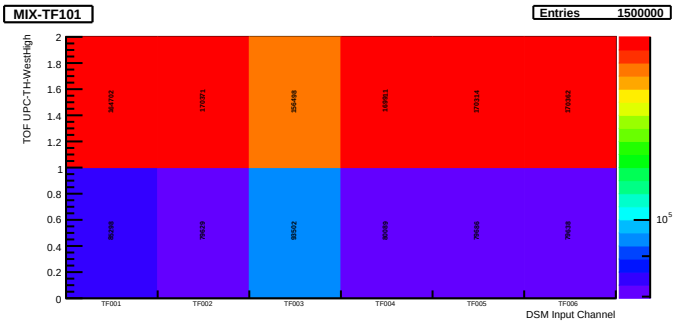

MIX-TF006
Entries 5250000
TOF MULT
TOF tray

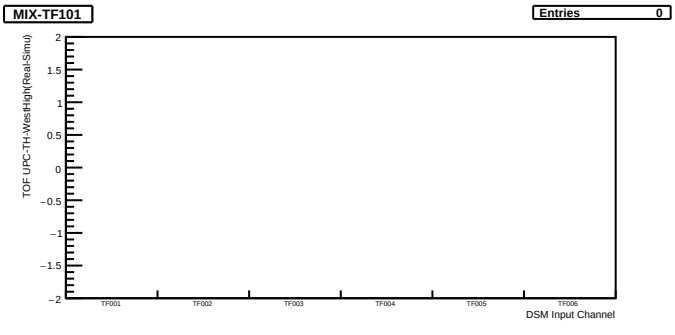

MIX-TF101
Entries 1500000
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

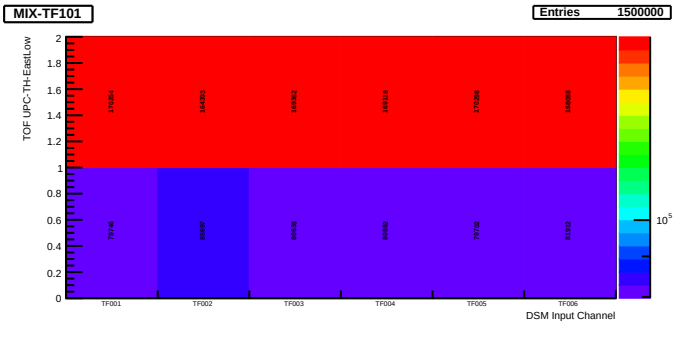

MIX-TF101
Entries 210345
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

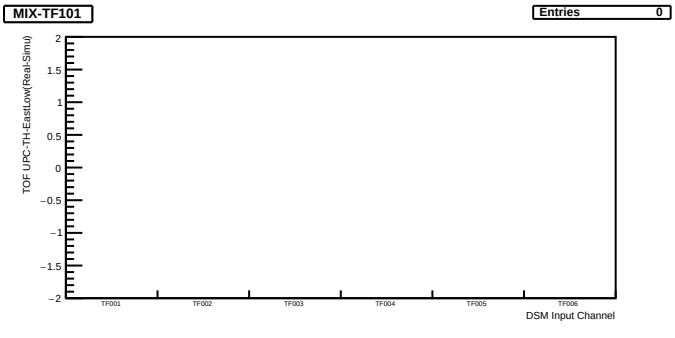

MIX-TF101
Entries 1500000
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

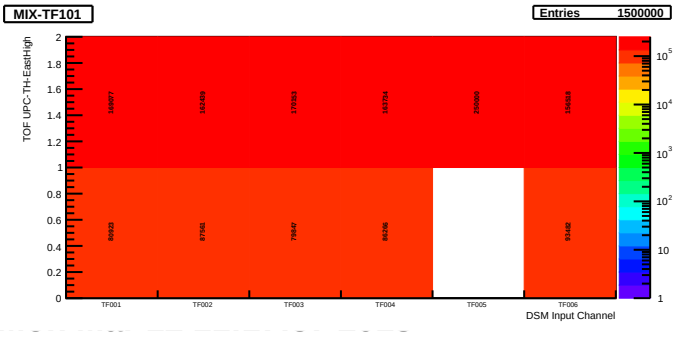

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

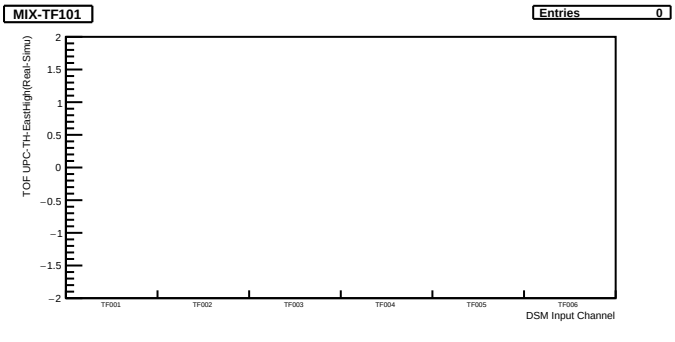

MIX-TF101
Entries 1500000
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

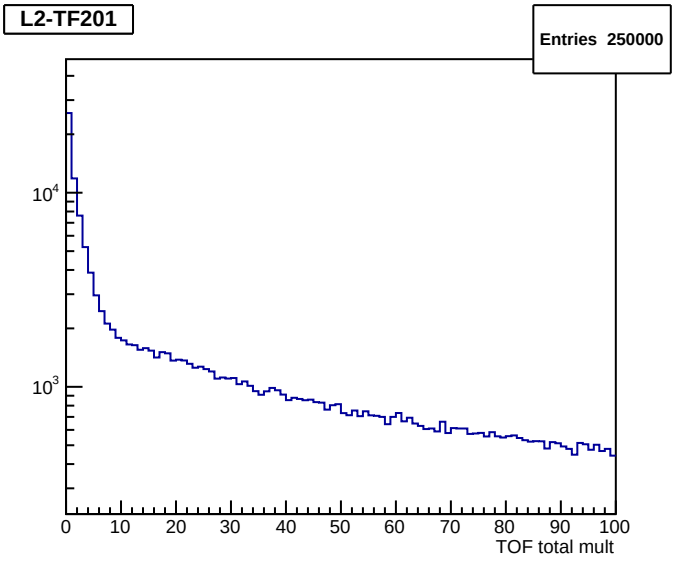

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

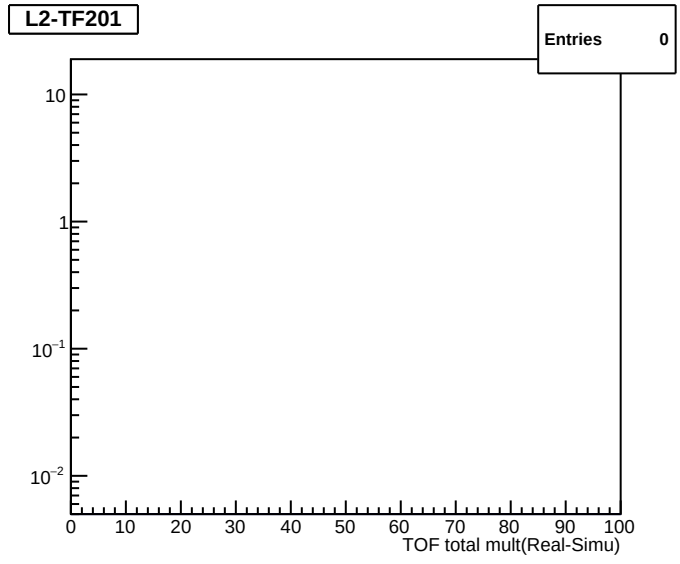

MIX-TF101
Entries 1500000
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

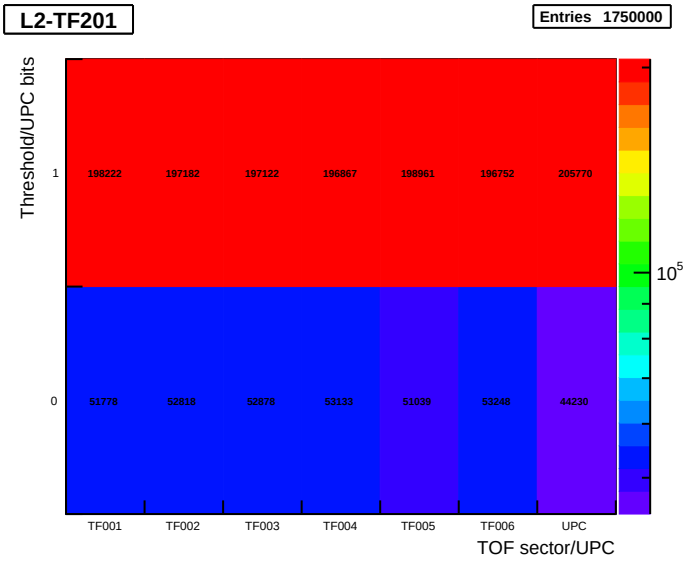

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

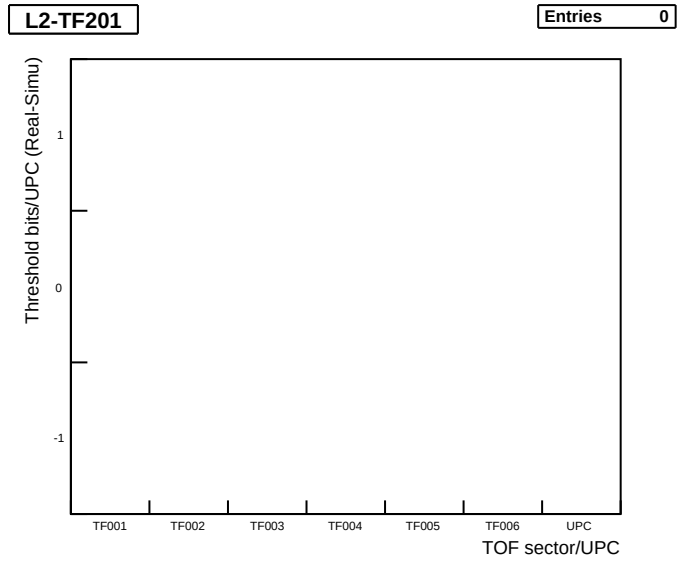

MIX-TF101
Entries 1500000
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

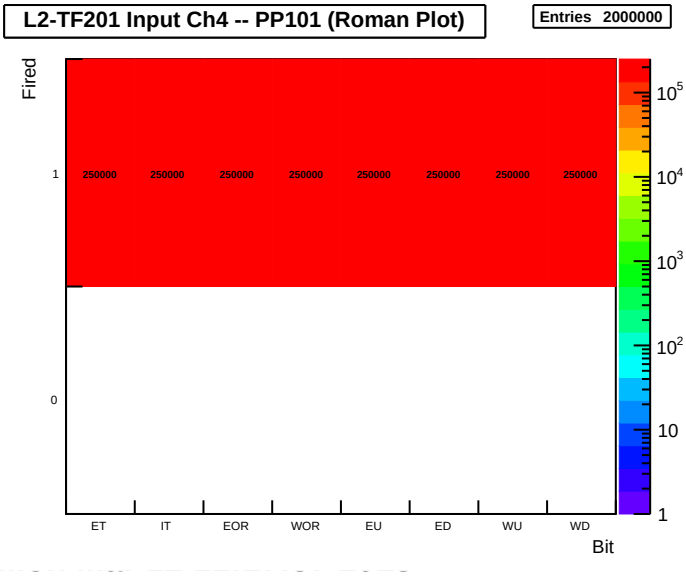

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

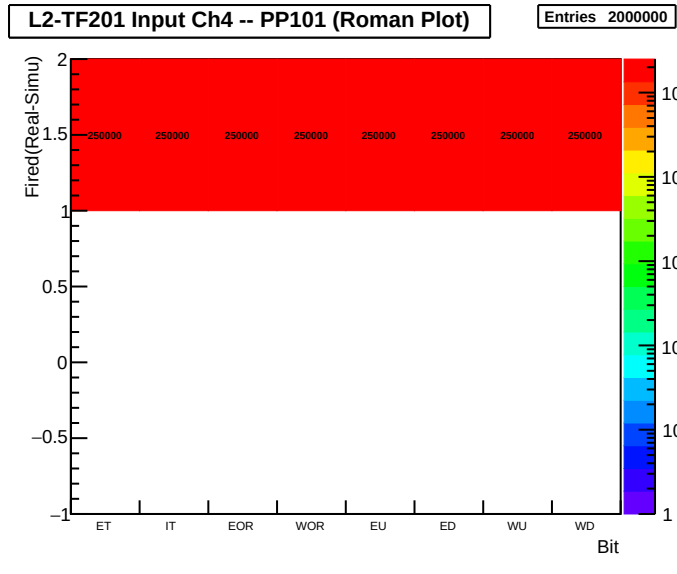

L2-TF201
Entries 250000
TOF total mult

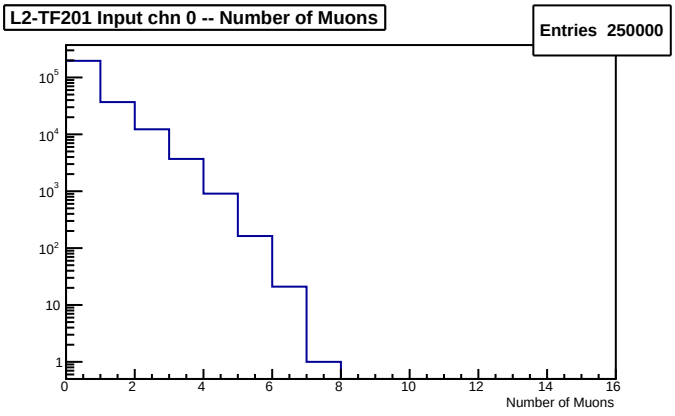

L2-TF201
Entries 0
TOF total mult(Real-Simu)

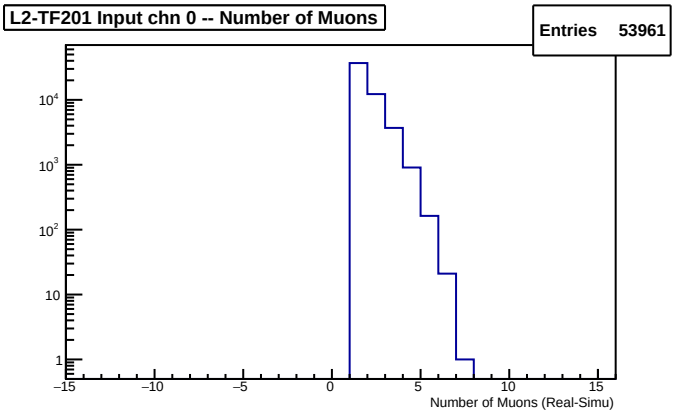

L2-TF201
Entries 1750000
Threshold/UPC bits
198222 197182 197122 196867 198961 196752 205770
51778 52818 52878 53133 51039 53248 44230
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

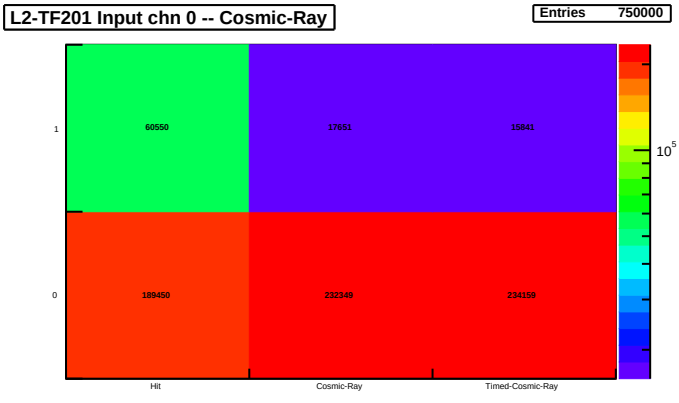

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

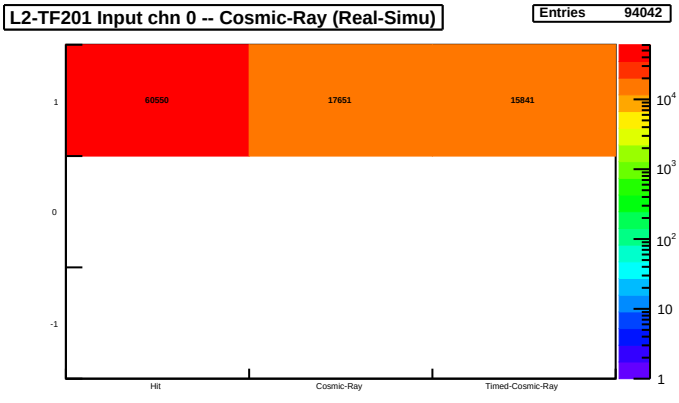

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 2000000
Fired
250000 250000 250000 250000 250000 250000 250000 250000
ET IT EOR WOR EU ED WU WD
Bit

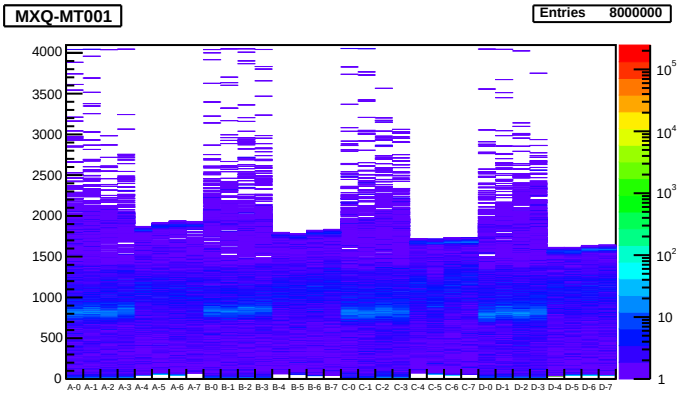

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 2000000
Fired(Real-Simu)
250000 250000 250000 250000 250000 250000 250000 250000
ET IT EOR WOR EU ED WU WD
Bit

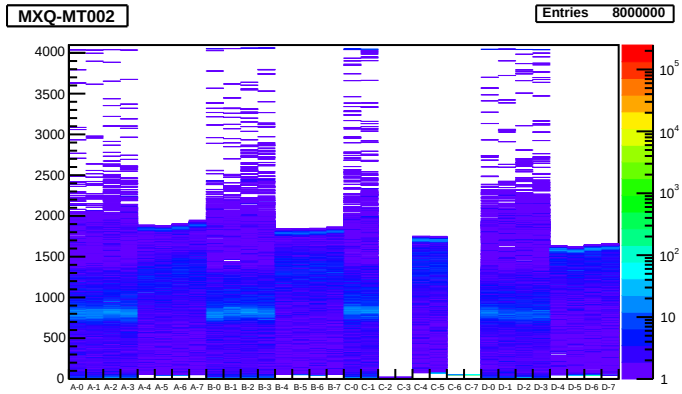

L2-TF201 Input chn 0 -- Number of Muons
Entries 250000
Number of Muons

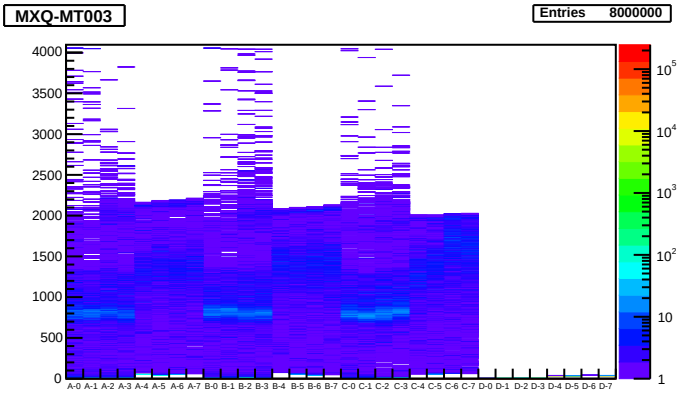

L2-TF201 Input chn 0 -- Number of Muons
Entries 53961
Number of Muons (Real-Simu)

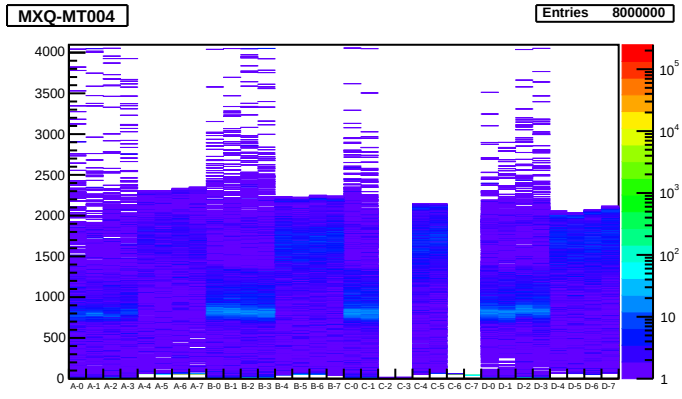

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 750000
60550
17651
15841
189450
232349
234159
Hit
Cosmic-Ray
Timed-Cosmic-Ray

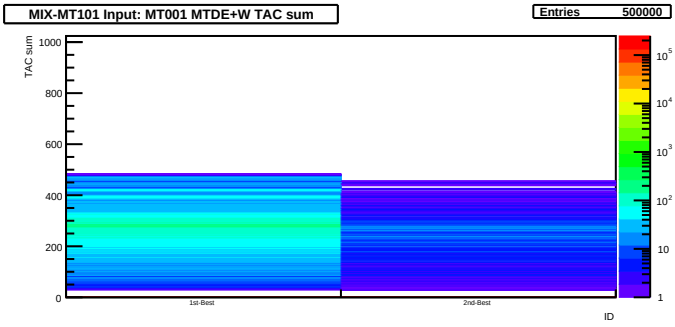

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 94042
60550
17651
15841
Hit
Cosmic-Ray
Timed-Cosmic-Ray

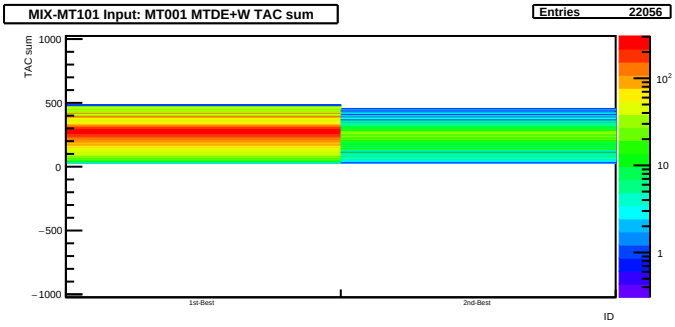

MXQ-MT001
Entries 8000000
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

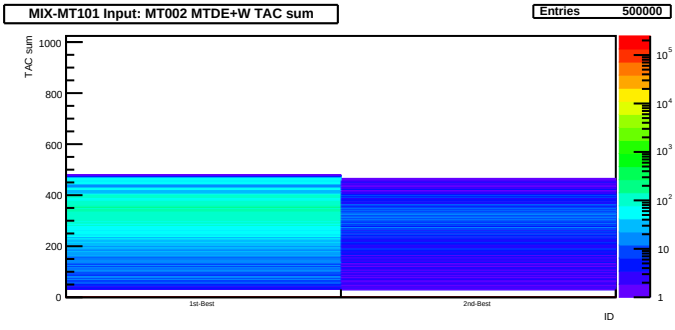

MXQ-MT002
Entries 8000000
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

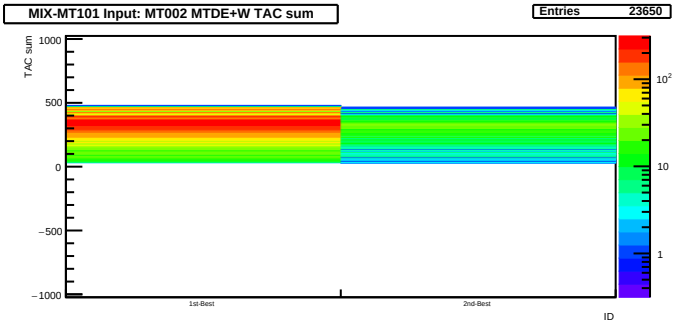

MXQ-MT003
Entries 8000000
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

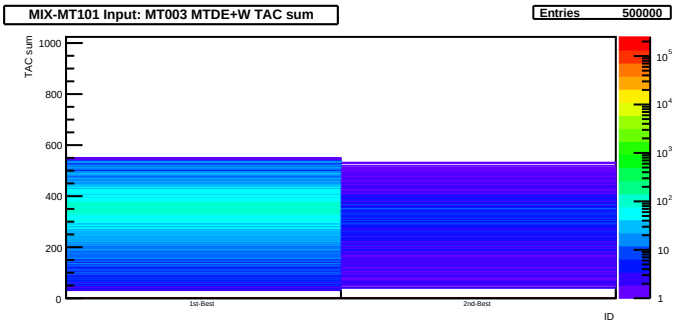

MXQ-MT004
Entries 8000000
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

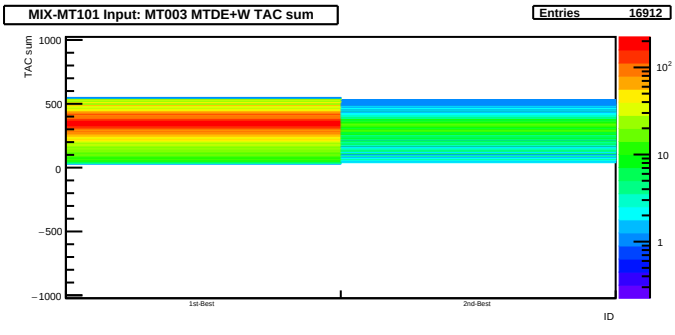

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 500000
TAC sum
1st-Best
2nd-Best
ID

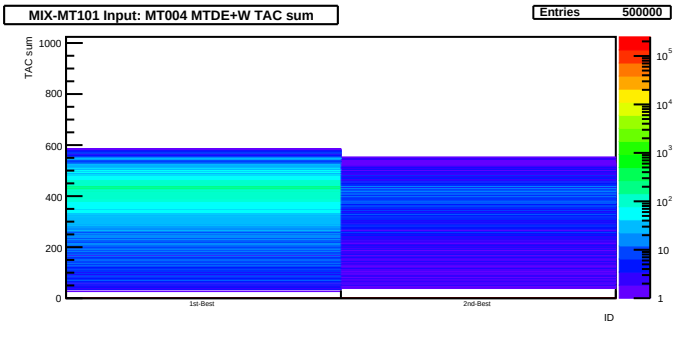

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 22056
TAC sum
1st-Best
2nd-Best
ID

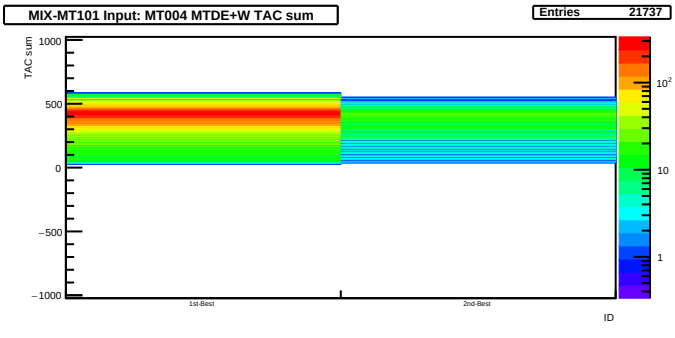

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 500000
TAC sum
1st-Best
2nd-Best
ID

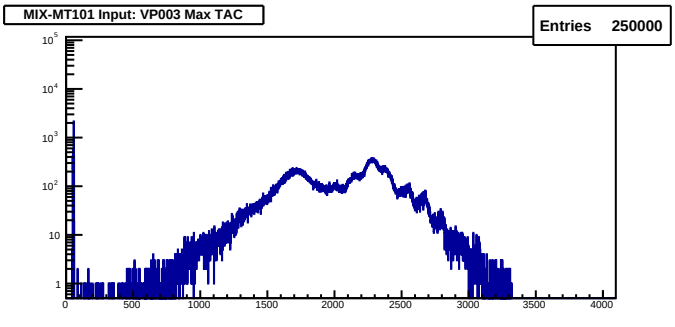

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 23650
TAC sum
1st-Best
2nd-Best
ID

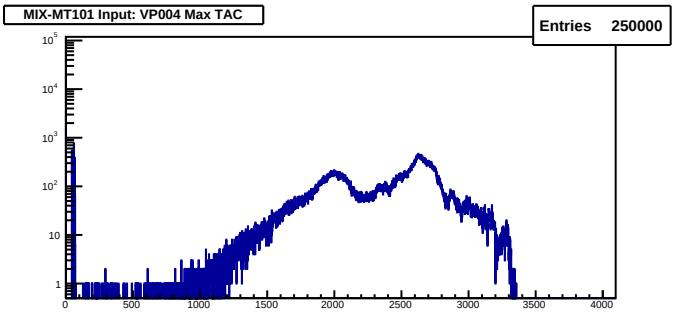

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 500000
TAC sum
1st-Best
2nd-Best
ID

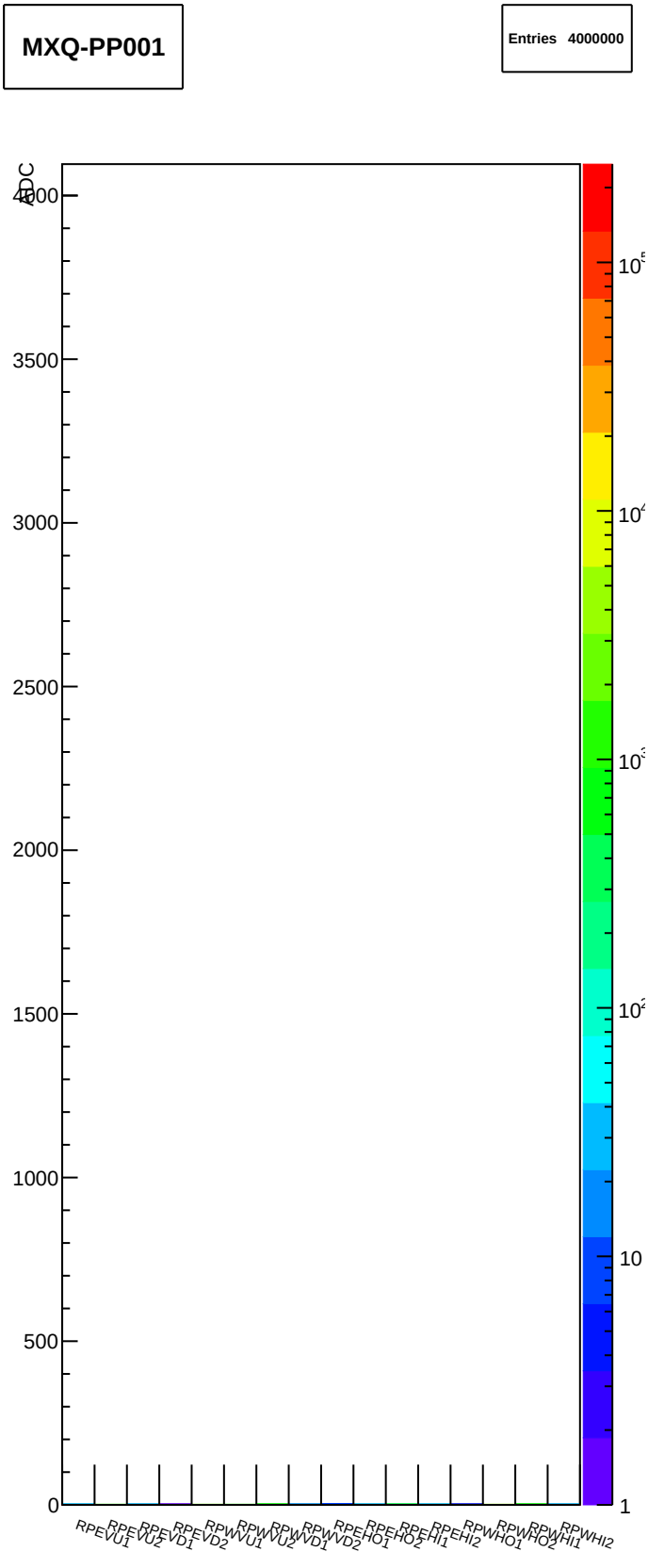

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 16912
TAC sum
1st-Best
2nd-Best
ID

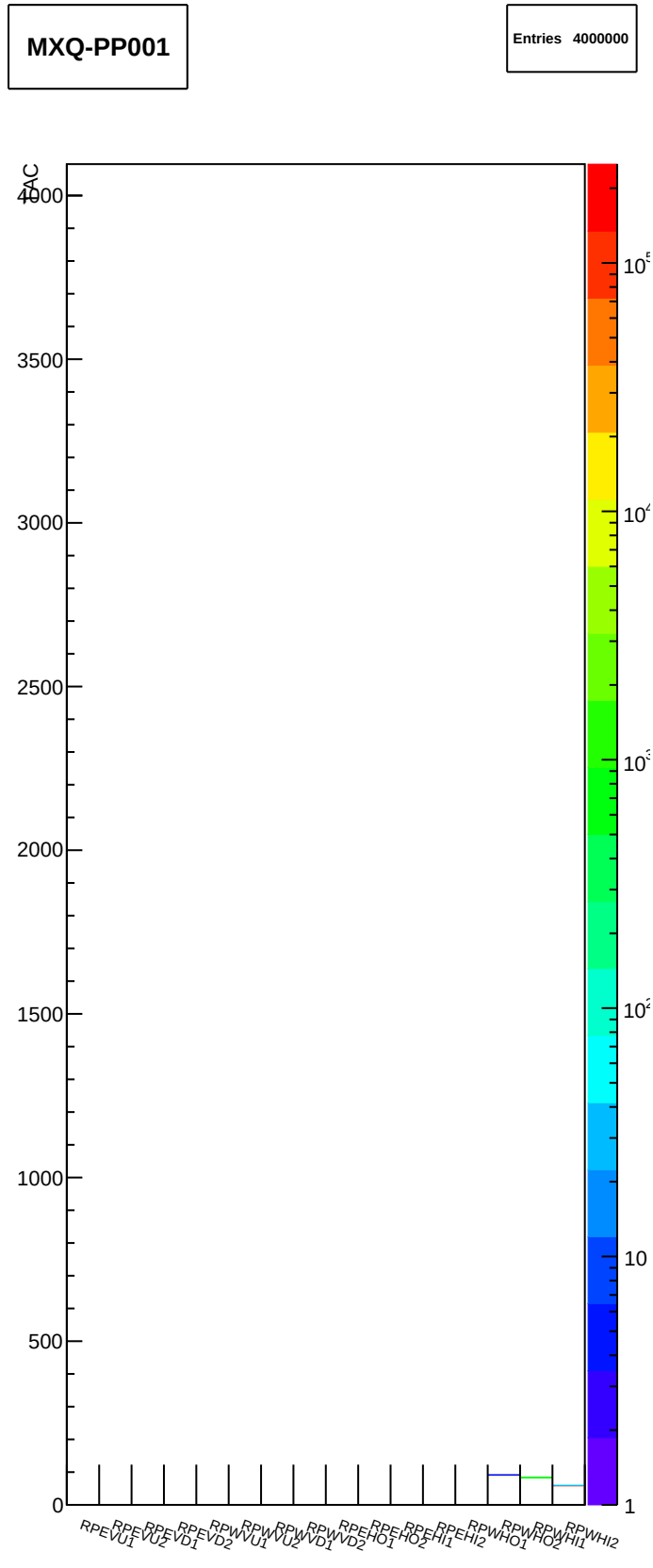

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 500000
TAC sum
1st-Best
2nd-Best
ID

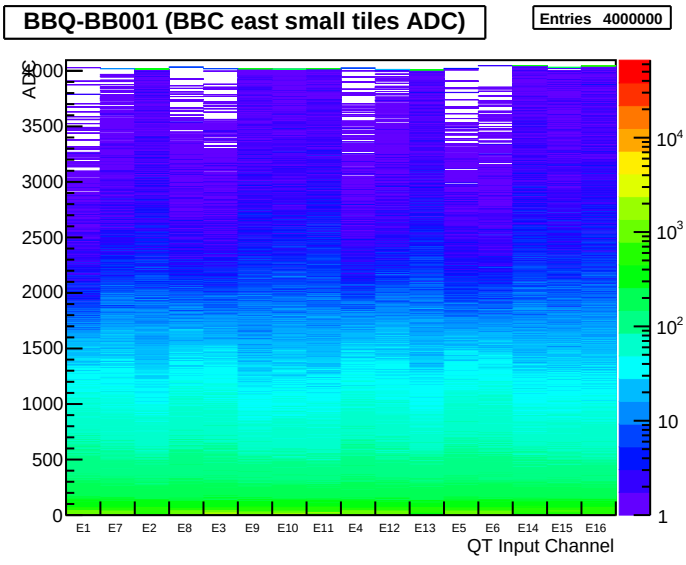

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 21737
TAC sum
1st-Best
2nd-Best
ID

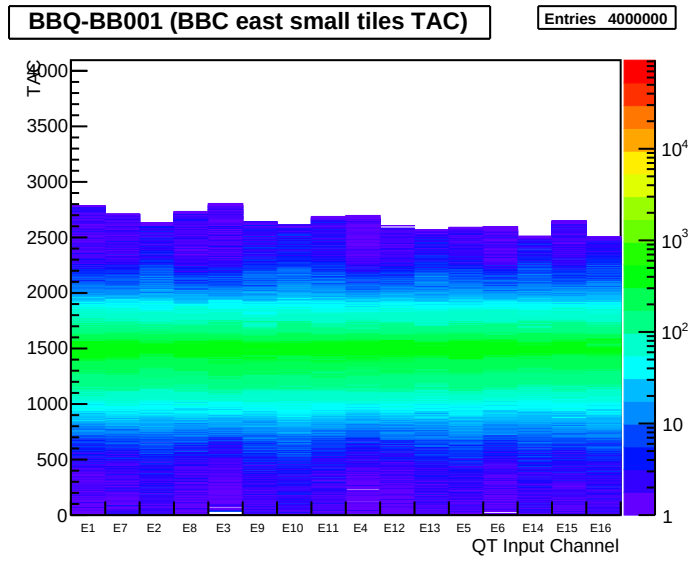

MIX-MT101 Input: VP003 Max TAC
Entries 250000

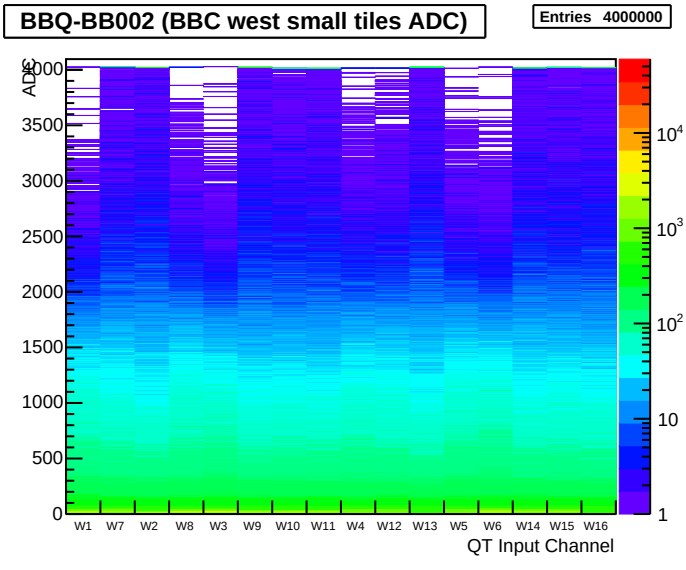

MIX-MT101 Input: VP004 Max TAC
Entries 250000

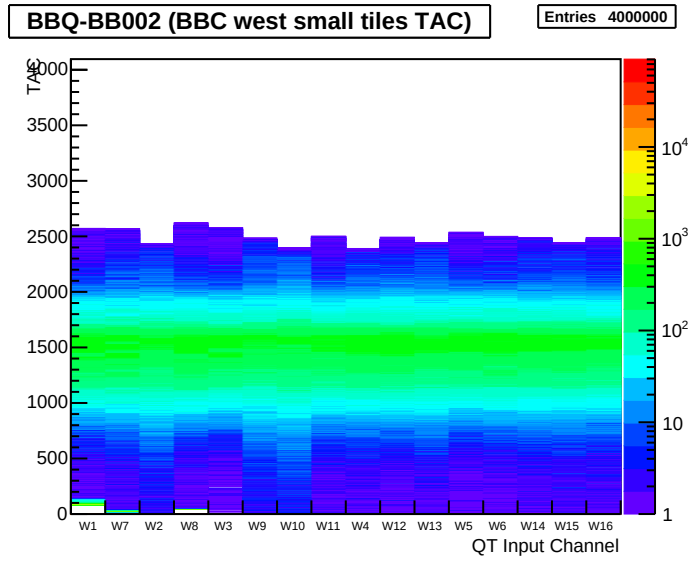

MXQ-PP001
Entries 4000000
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

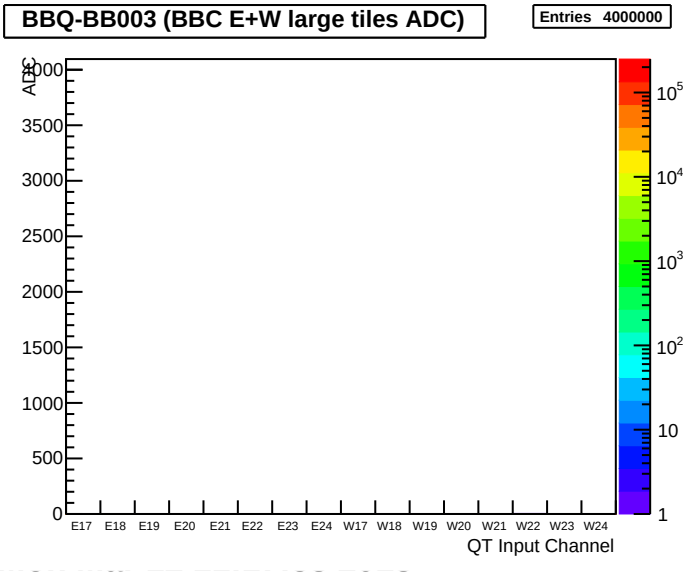

MXQ-PP001
Entries 4000000
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

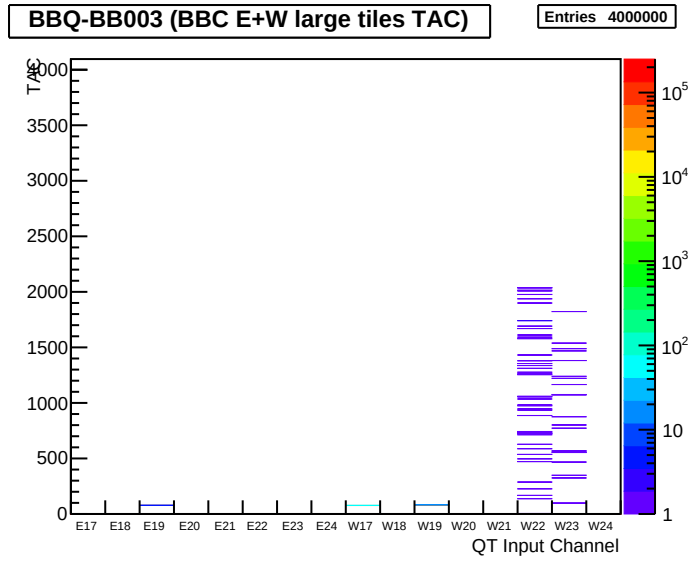

BBQ-BB001 (BBC east small tiles ADC)
Entries 4000000
ADC
QT Input Channel

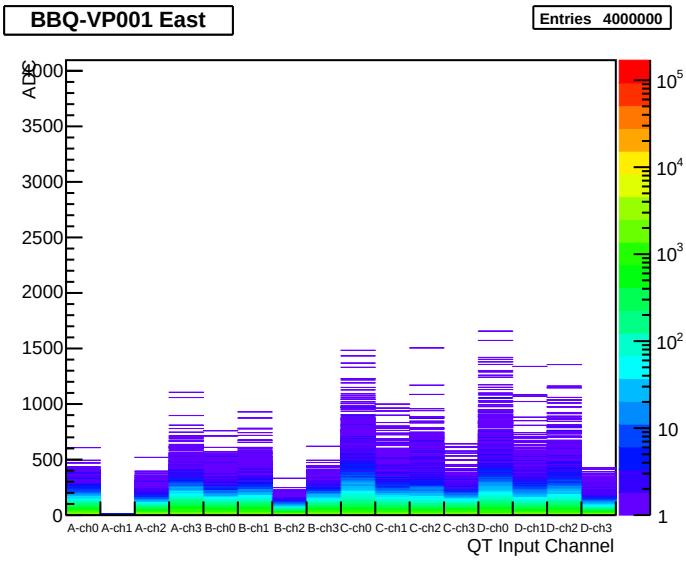

BBQ-BB001 (BBC east small tiles TAC)
Entries 4000000
TAC
QT Input Channel

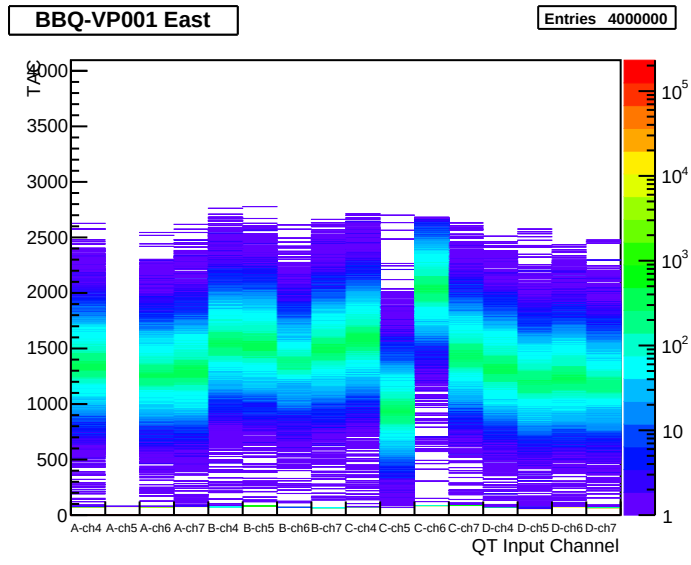

BBQ-BB002 (BBC west small tiles ADC)
Entries 4000000
ADC
QT Input Channel

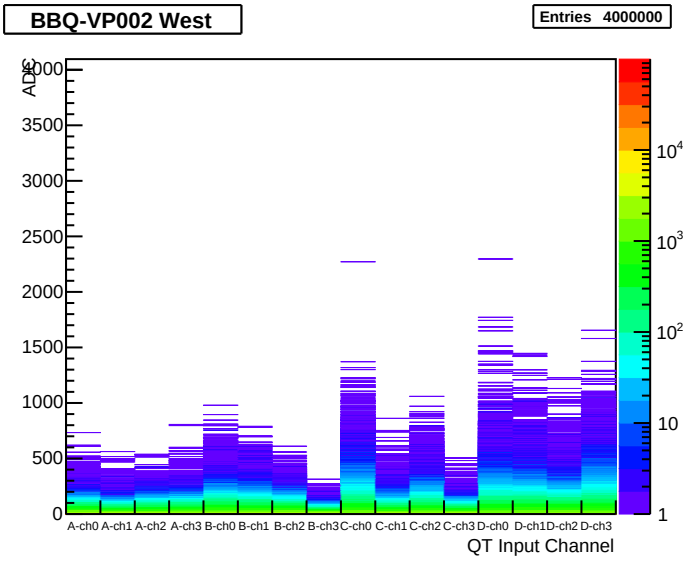

BBQ-BB002 (BBC west small tiles TAC)
Entries 4000000
TAC
QT Input Channel

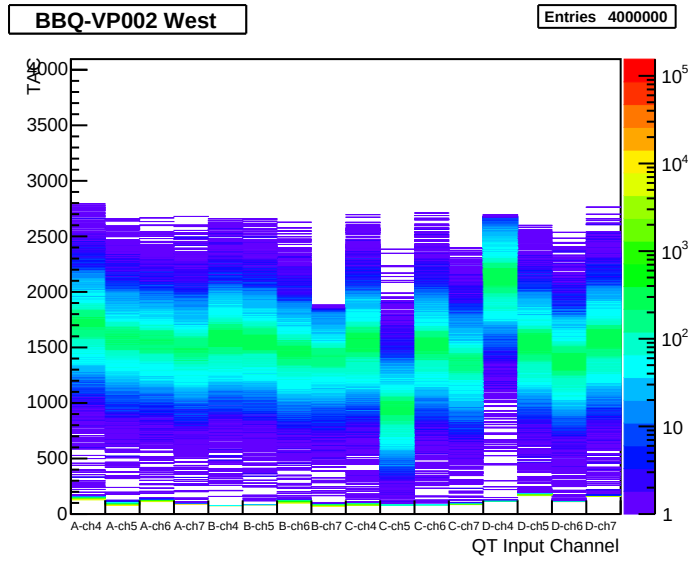

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4000000
ADC
QT Input Channel

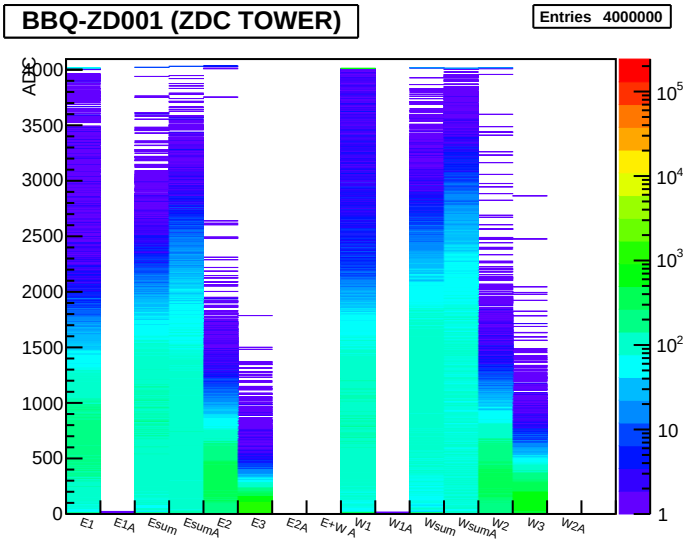

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4000000
TAC
QT Input Channel

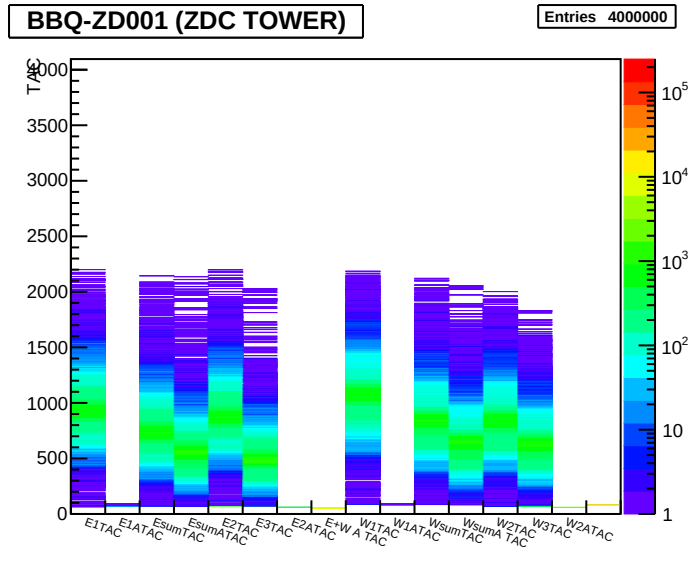

BBQ-VP001 East
Entries 4000000
ADC
QT Input Channel

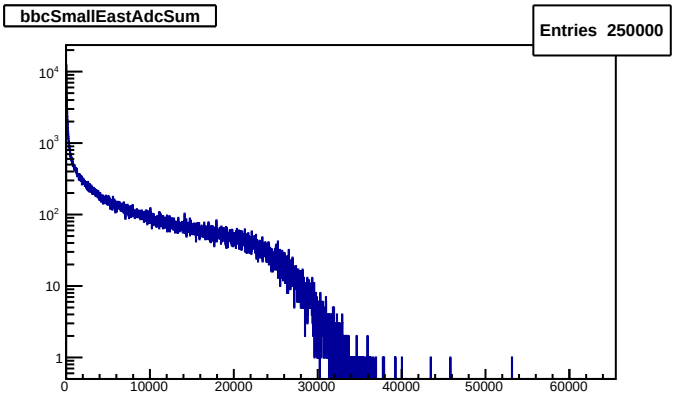

BBQ-VP001 East
Entries 4000000
TAC
QT Input Channel

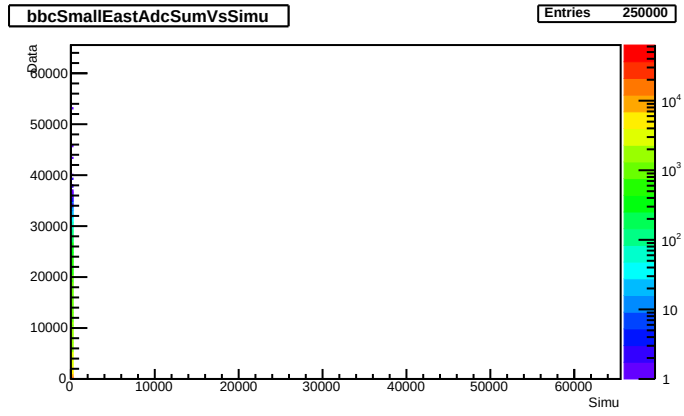

BBQ-VP002 West
Entries 4000000
ADC
QT Input Channel

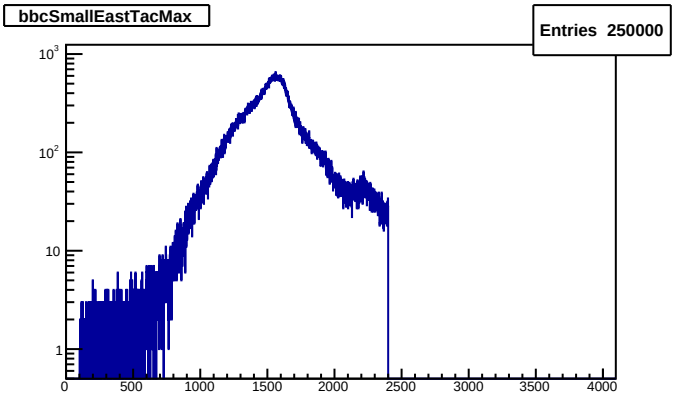

BBQ-VP002 West
Entries 4000000
TAC
QT Input Channel

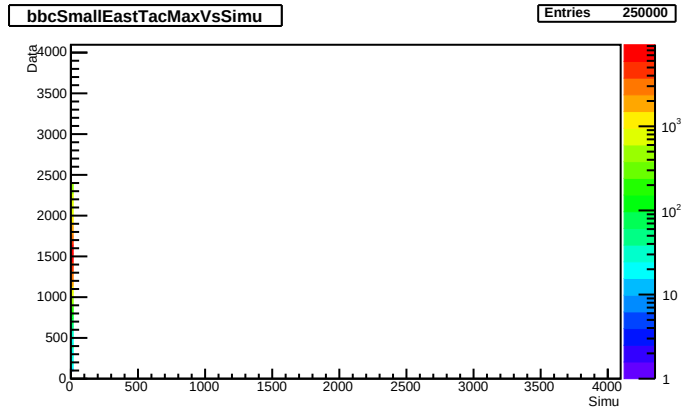

BBQ-ZD001 (ZDC TOWER)
Entries 4000000
ADC

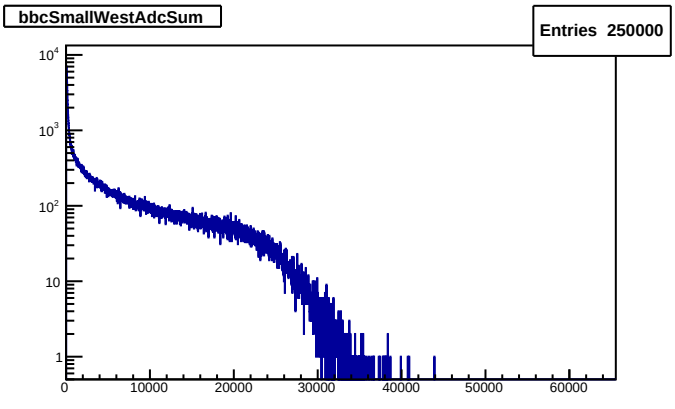

BBQ-ZD001 (ZDC TOWER)
Entries 4000000
TAC

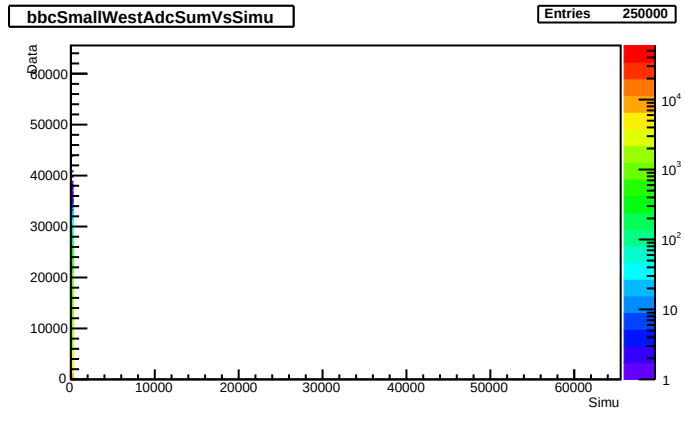

bbcSmallEastAdcSum
Entries 250000

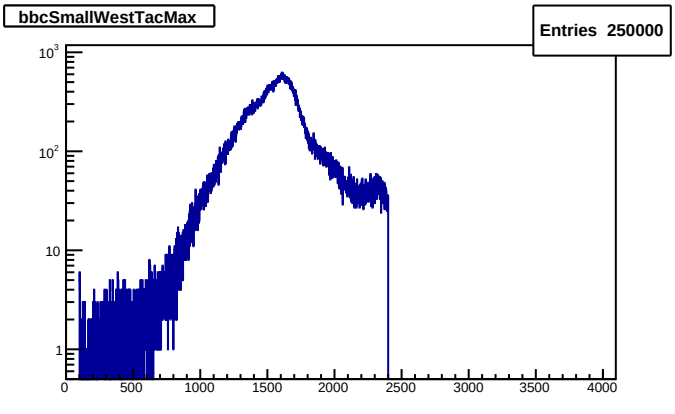

bbcSmallEastAdcSumVsSimu
Entries 250000
Data
Simu

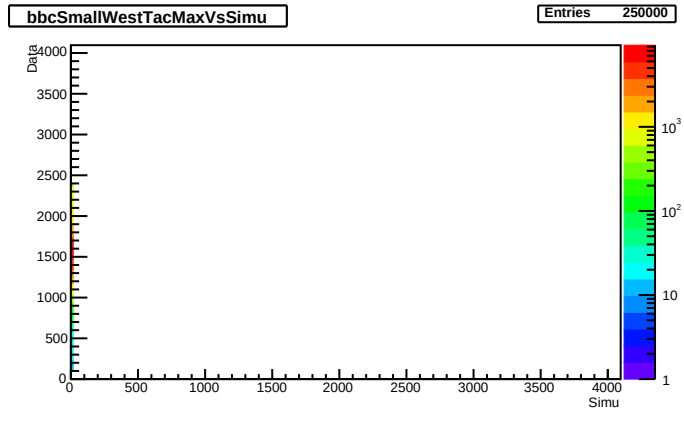

bbcSmallEastTacMax
Entries 250000

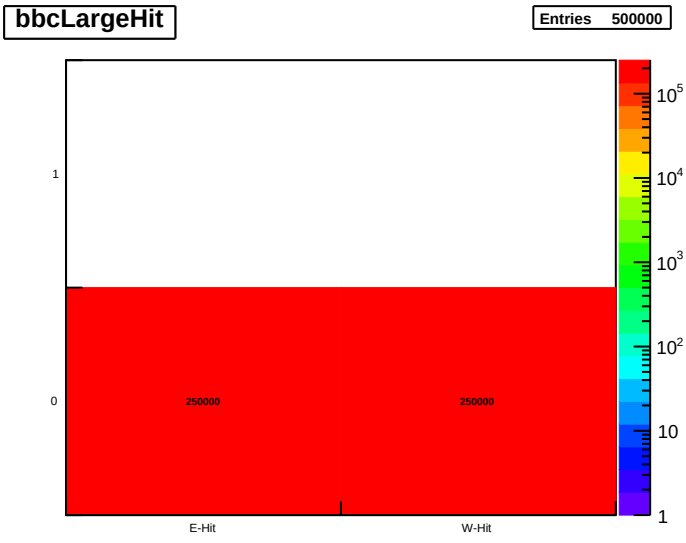

bbcSmallEastTacMaxVsSimu
Entries 250000
Data
Simu

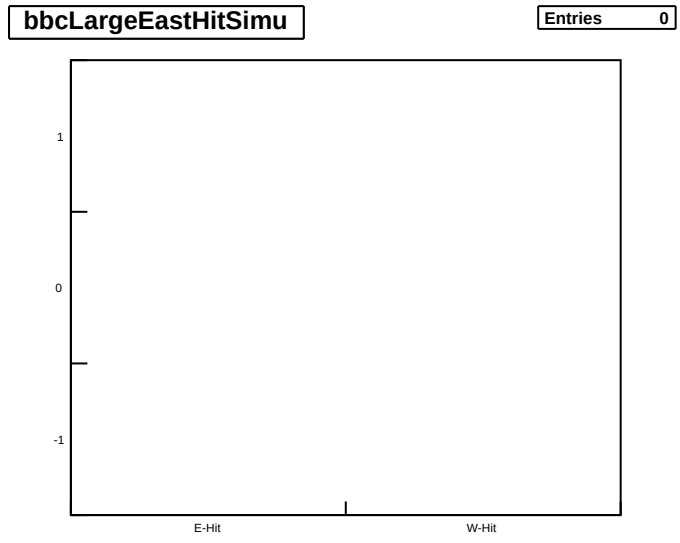

bbcSmallWestAdcSum
Entries 250000

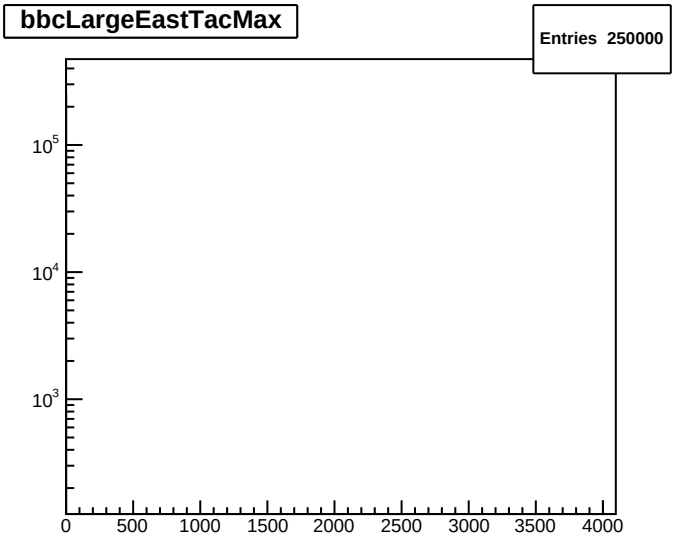

bbcSmallWestAdcSumVsSimu
Entries 250000
Data
Simu

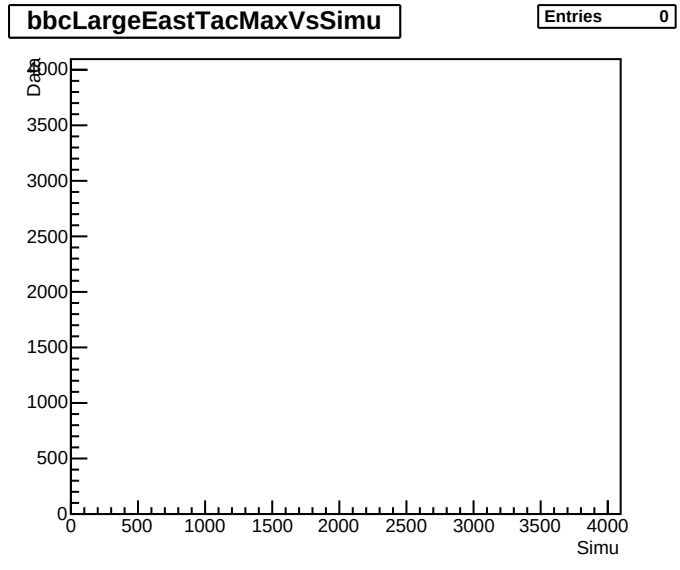

bbcSmallWestTacMax
Entries 250000

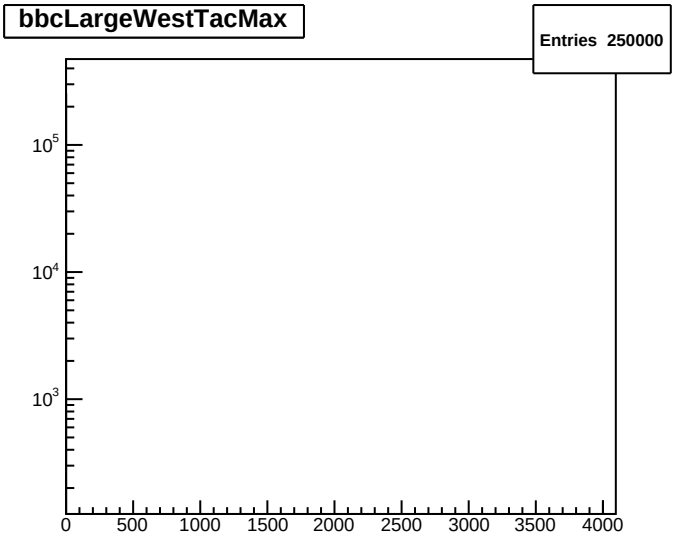

bbcSmallWestTacMaxVsSimu
Entries 250000
Data
Simu

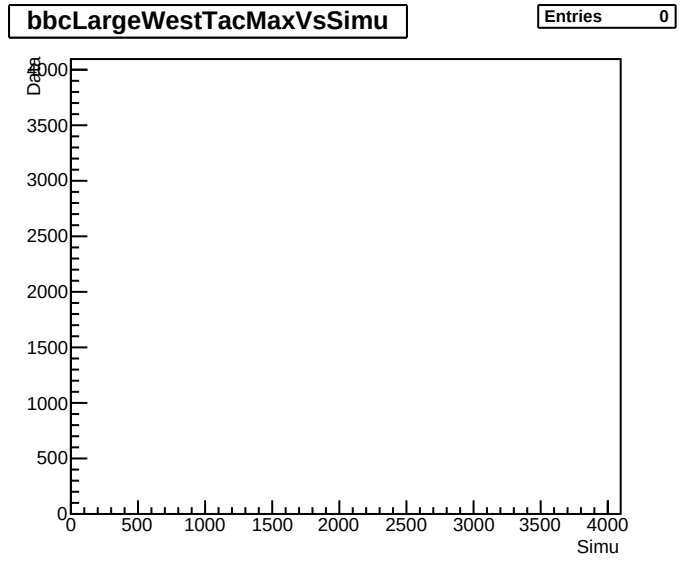

bbcLargeHit
Entries 500000
250000
250000
E-Hit
W-Hit

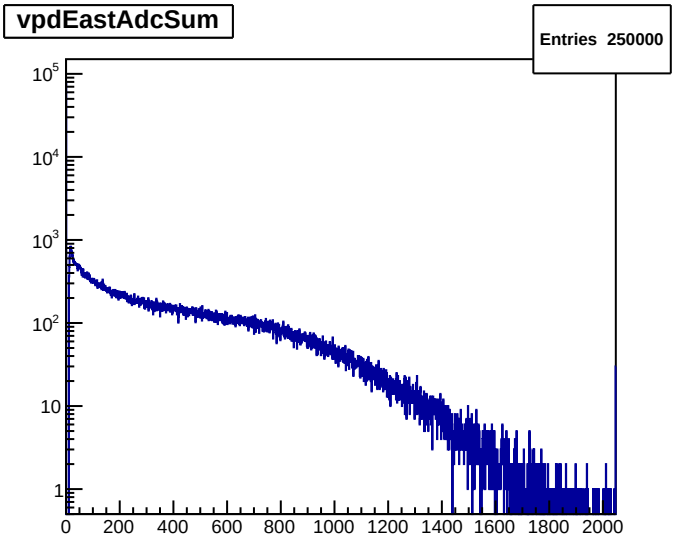

bbcLargeEastHitSimu
Entries 0
E-Hit
W-Hit

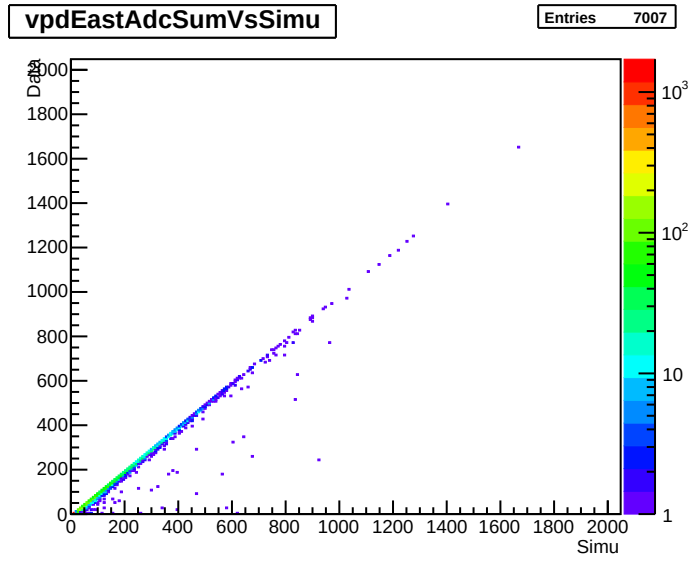

bbcLargeEastTacMax
Entries 250000

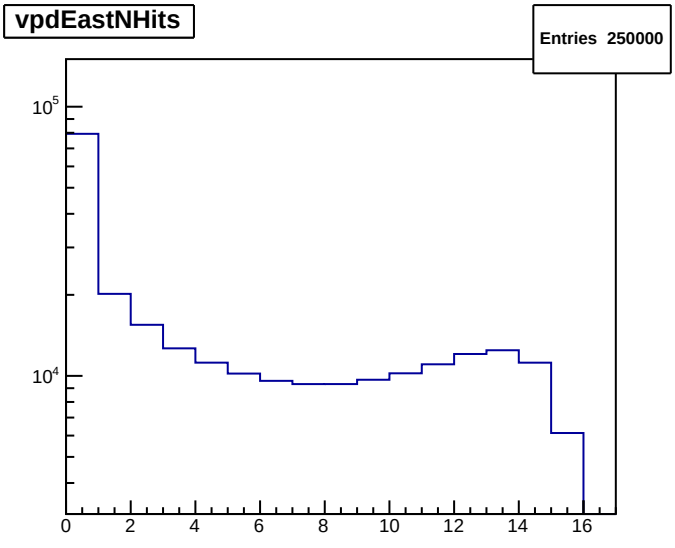

bbcLargeEastTacMaxVsSimu
Entries 0
Data
Simu

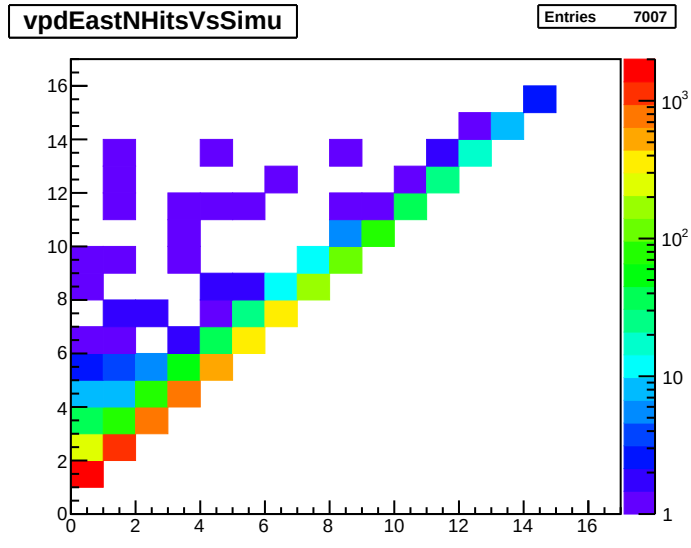

bbcLargeWestTacMax
Entries 250000

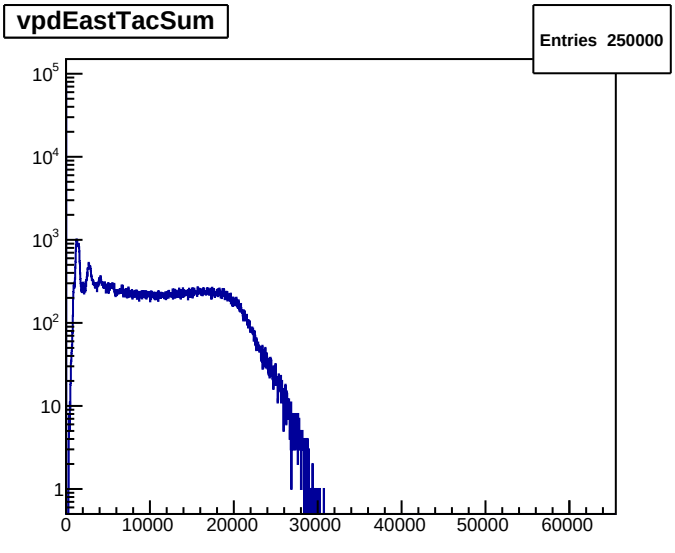

bbcLargeWestTacMaxVsSimu
Entries 0
Data
Simu

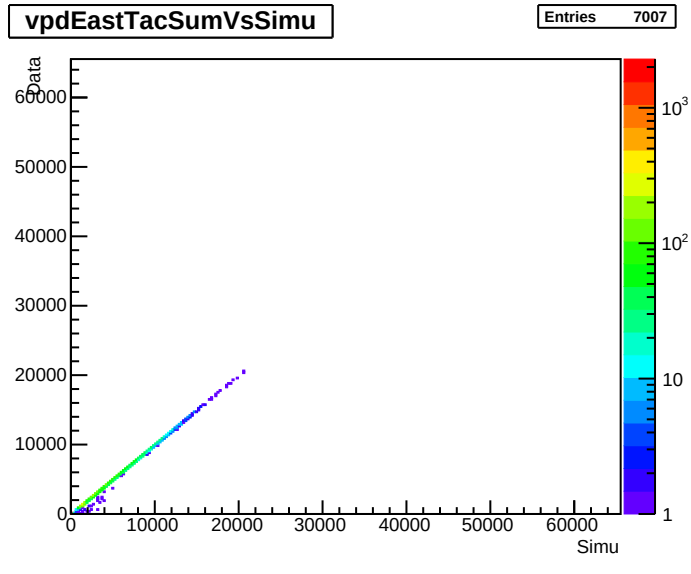

vpdEastAdcSum
Entries 250000

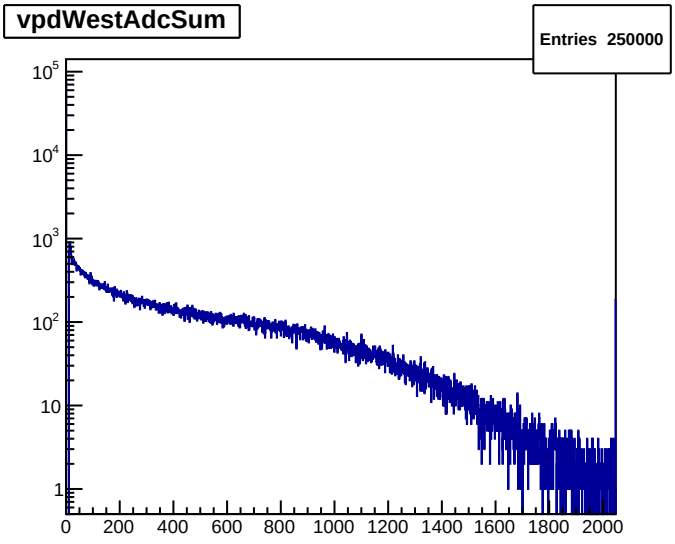

vpdEastAdcSumVsSimu
Entries 7007
Data
Simu

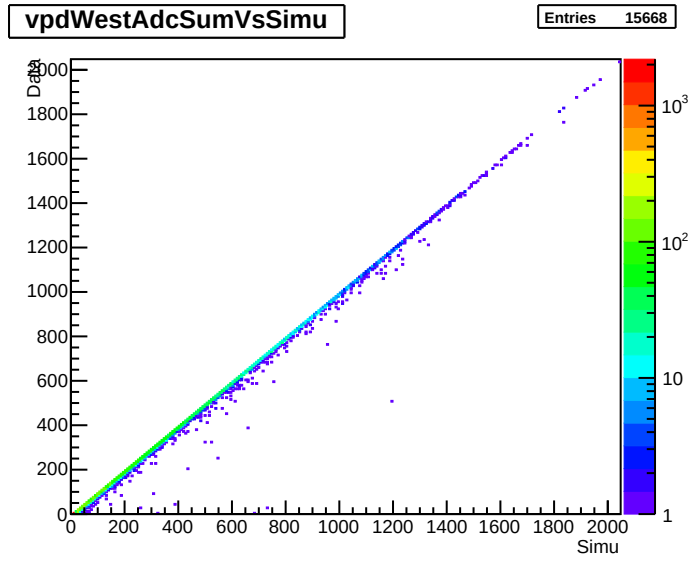

vpdEastNHits
Entries 250000

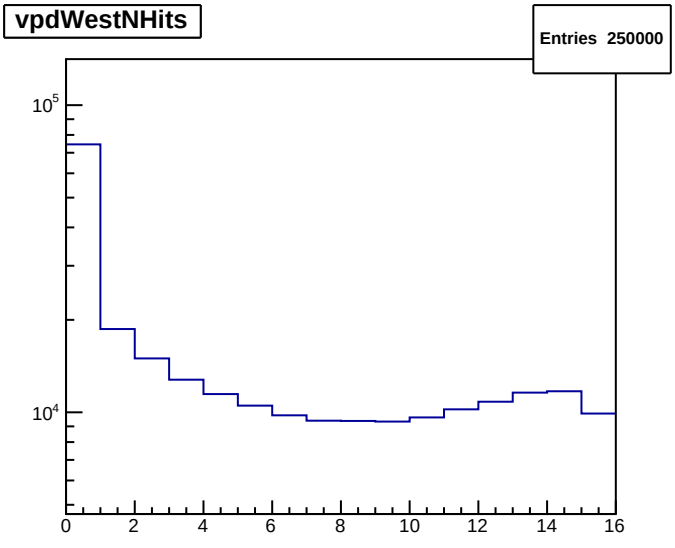

vpdEastNHitsVsSimu
Entries 7007

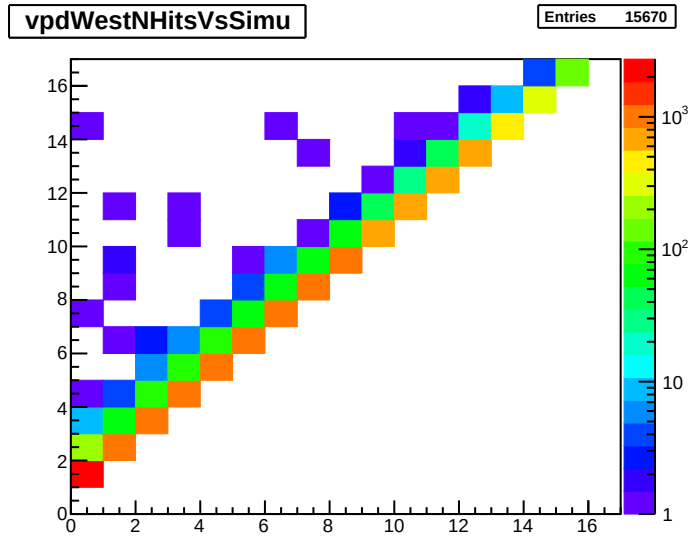

vpdEastTacSum
Entries 250000

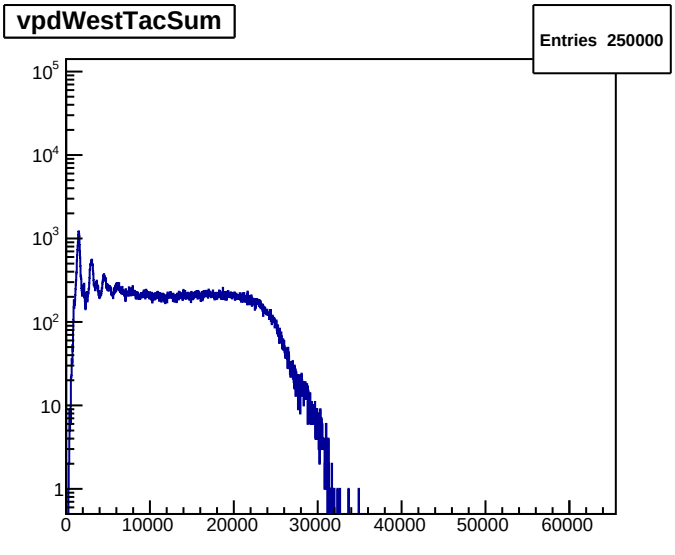

vpdEastTacSumVsSimu
Entries 7007
Data
Simu

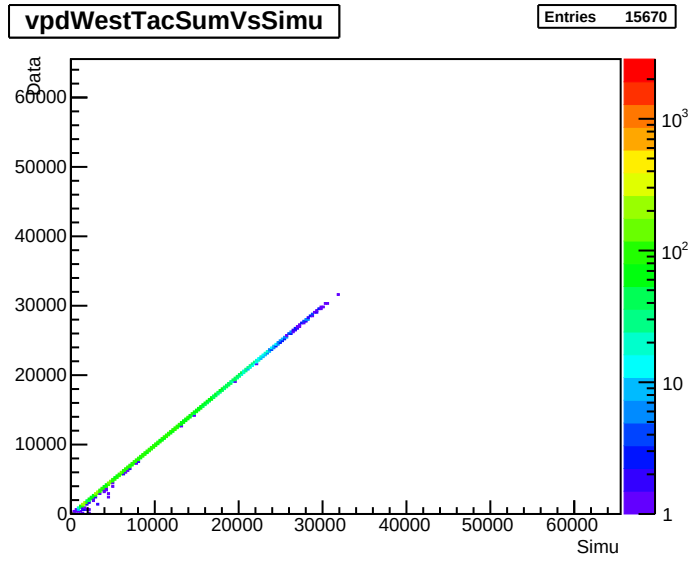

vpdWestAdcSum
Entries 250000

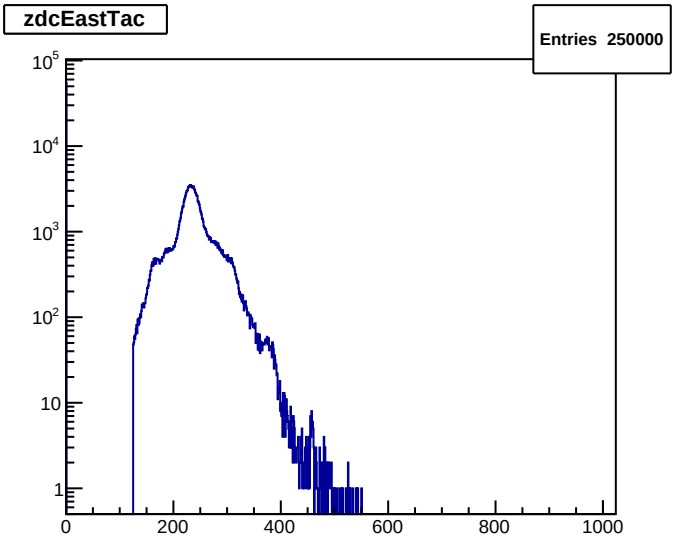

vpdWestAdcSumVsSimu
Entries 15668
Data
Simu

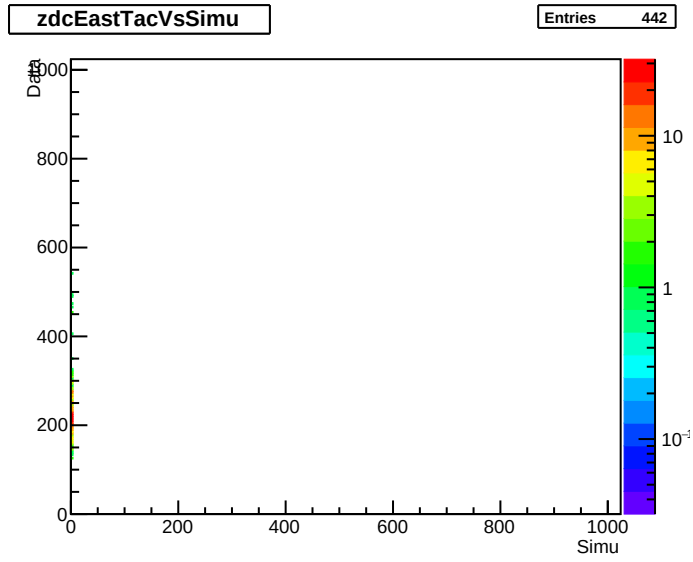

vpdWestNHits
Entries 250000

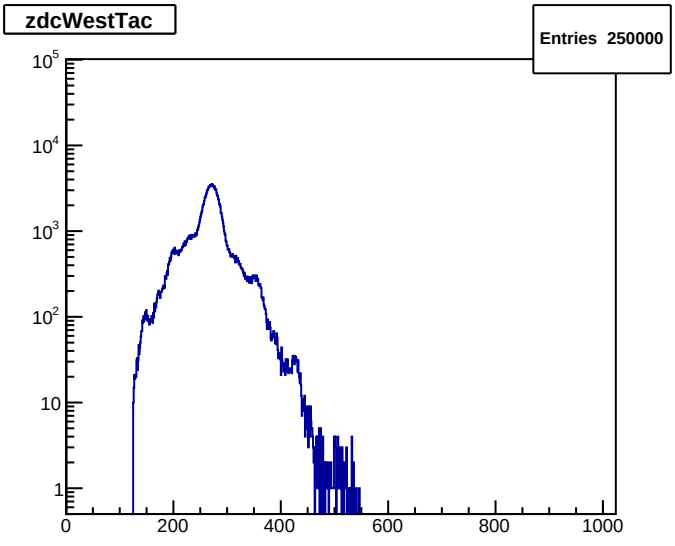

vpdWestNHitsVsSimu
Entries 15670

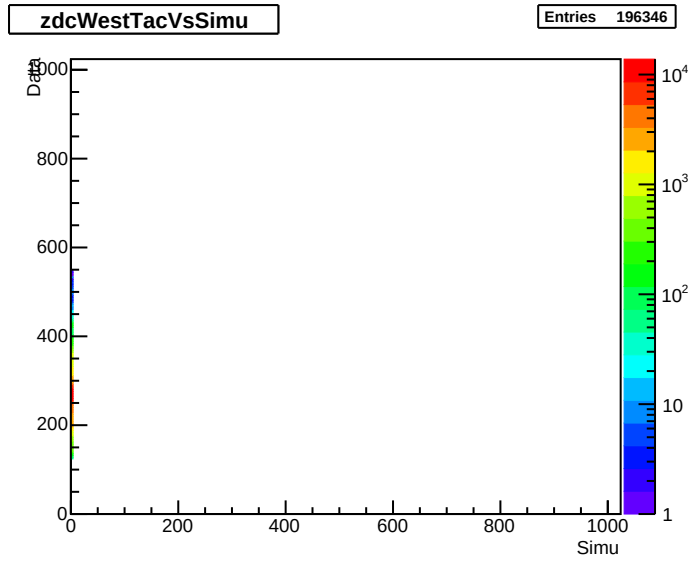

vpdWestTacSum
Entries 250000

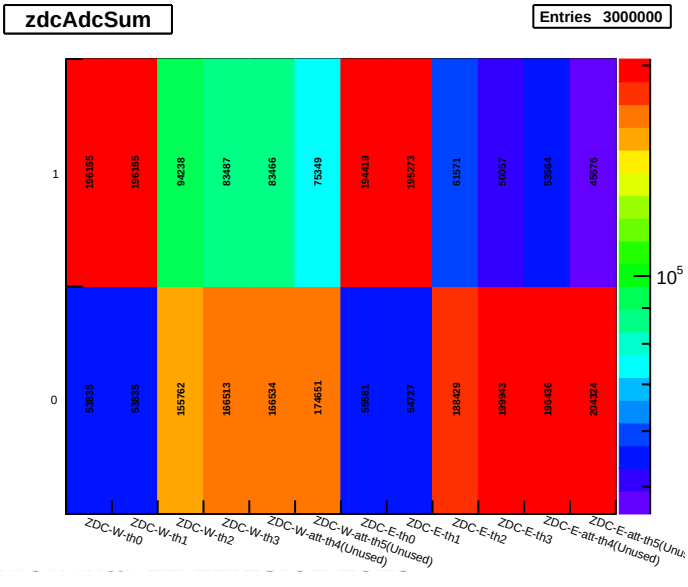

vpdWestTacSumVsSimu
Entries 15670
Data
Simu

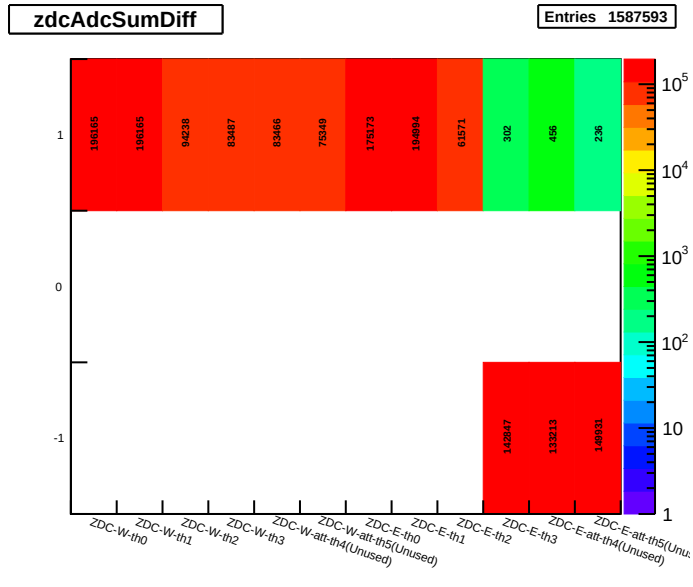

zdcEastTac
Entries 250000

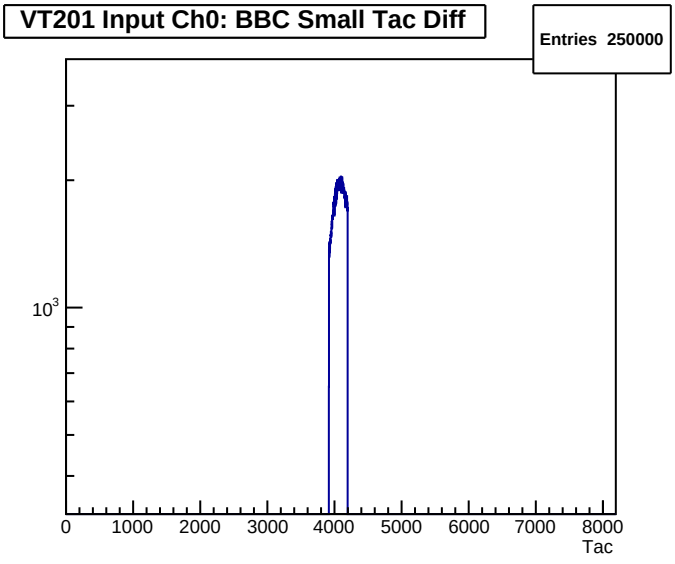

zdcEastTacVsSimu
Entries 442
Data
Simu

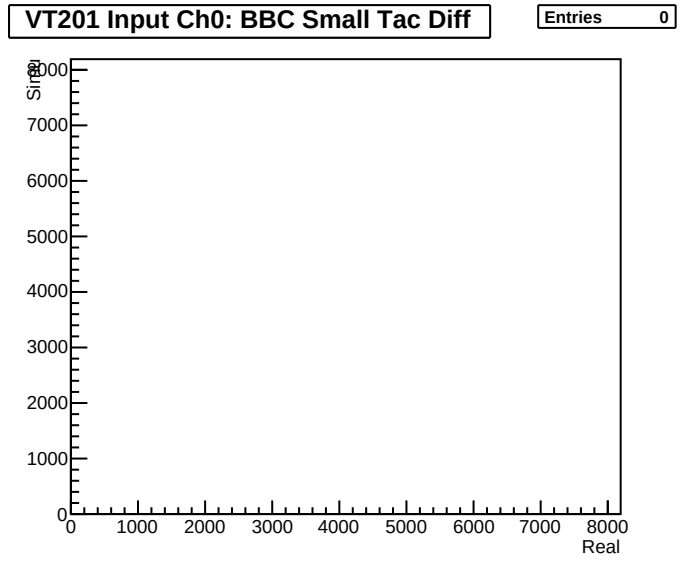

zdcWestTac
Entries 250000

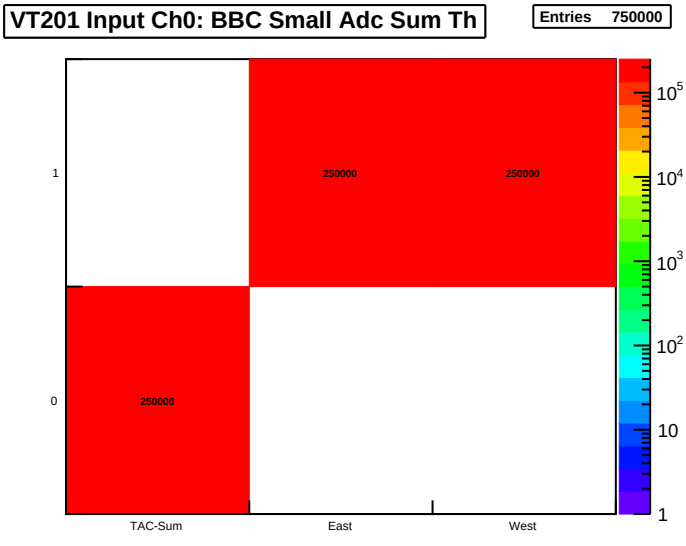

zdcWestTacVsSimu
Entries 196346
Data
Simu

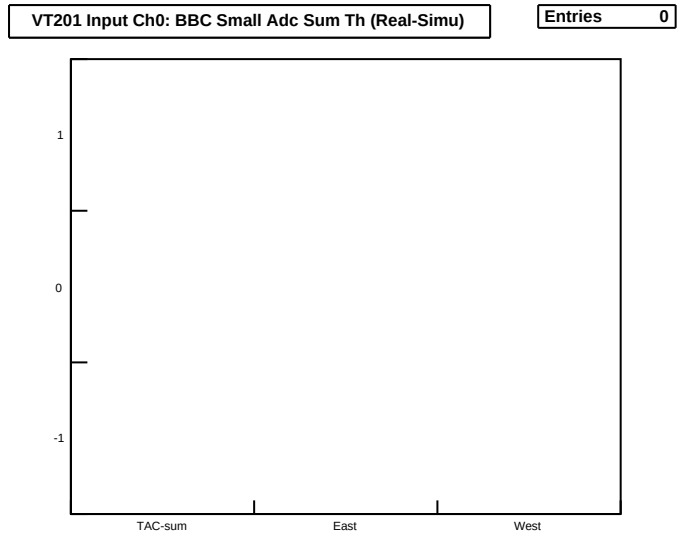

zdcAdcSum
Entries 3000000
196165
196165
94238
83487
83466
75349
194419
195273
61571
50057
53564
45676
53835
53835
155762
166513
166534
174651
55831
54727
188429
199943
196436
204324
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

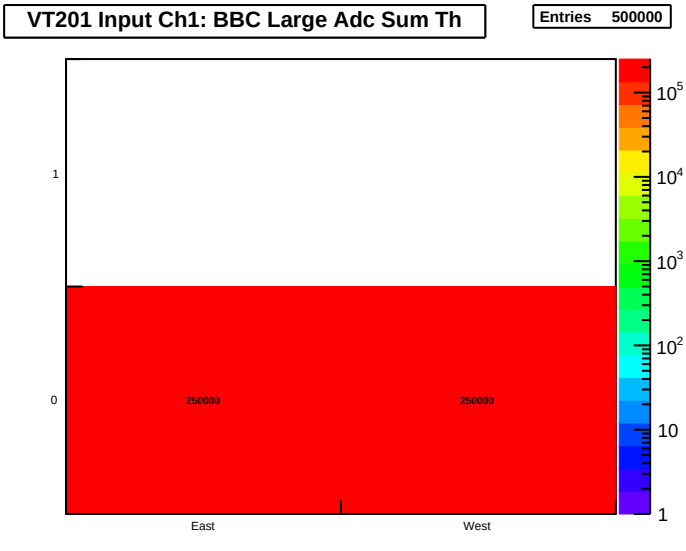

zdcAdcSumDiff
Entries 1587593
196165
196165
94238
83487
83466
75349
175173
194994
61571
302
456
236
142847
133213
140931
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

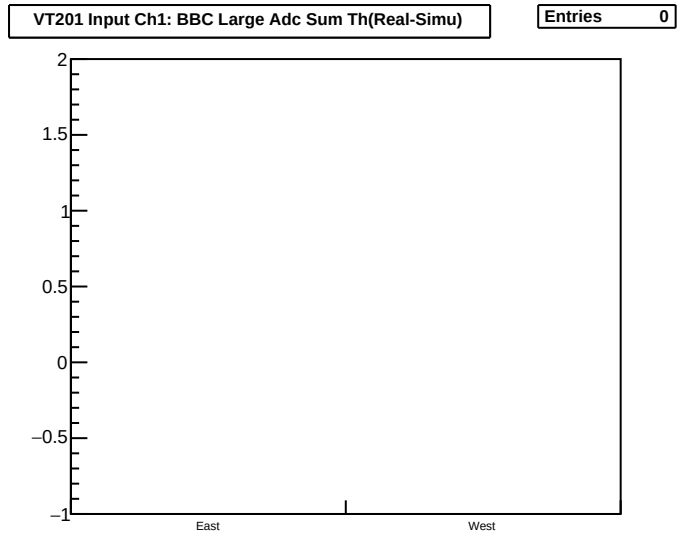

VT201 Input Ch0: BBC Small Tac Diff
Entries 250000
10^3
0 1000 2000 3000 4000 5000 6000 7000 8000
Tac


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

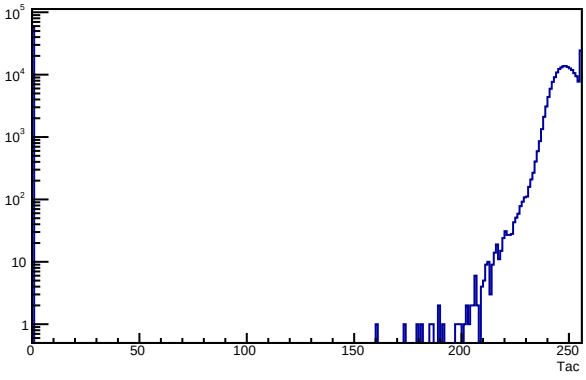

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 750000
1
0
250000
250000
250000
TAC-Sum
East
West
10^5
10^4
10^3
10^2
10
1


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

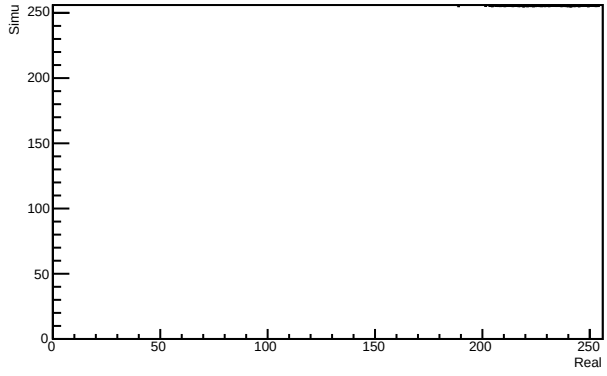

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 500000
1
0
250000
250000
East
West
10^5
10^4
10^3
10^2
10
1


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

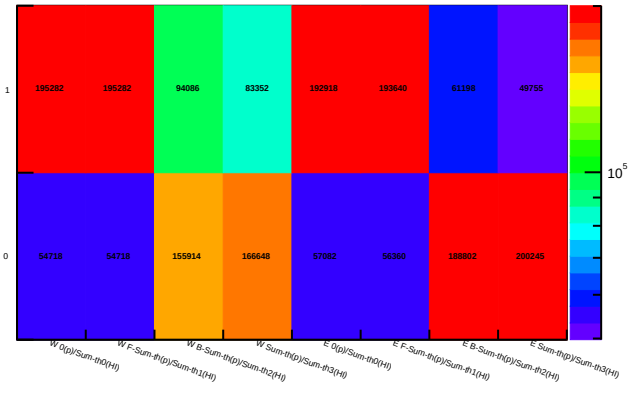
VT201 Input Ch2: ZDC Tac Diff



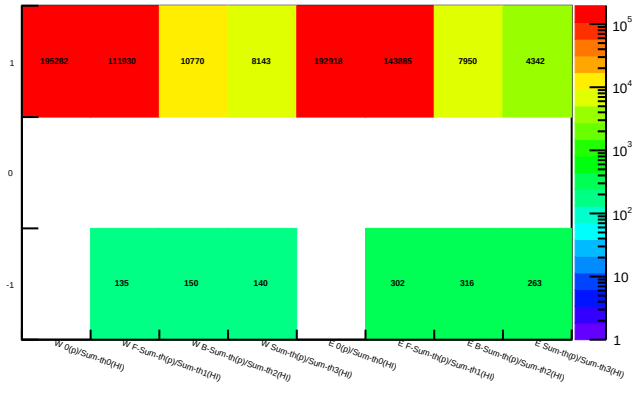
VT201 Input Ch2: ZDC Tac Diff



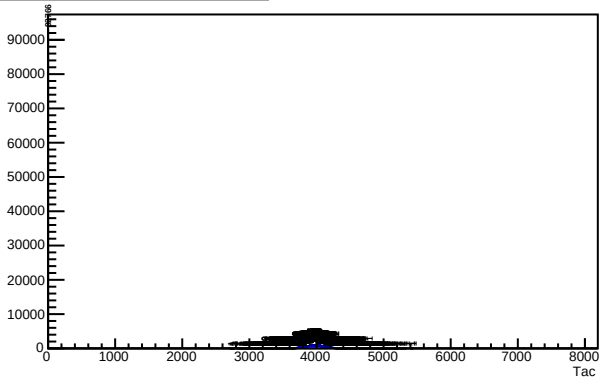
VT201 Input Ch2: ZDC Adc Sum Th



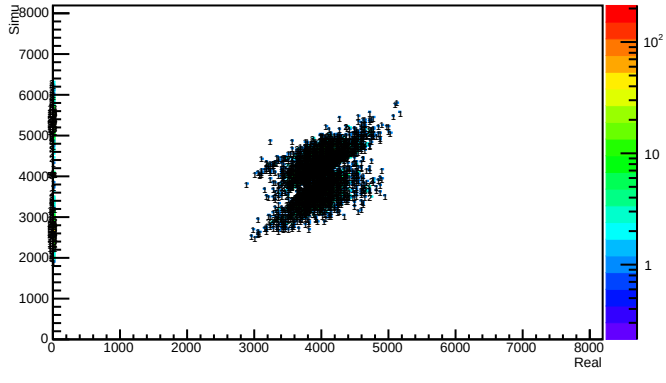
VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)



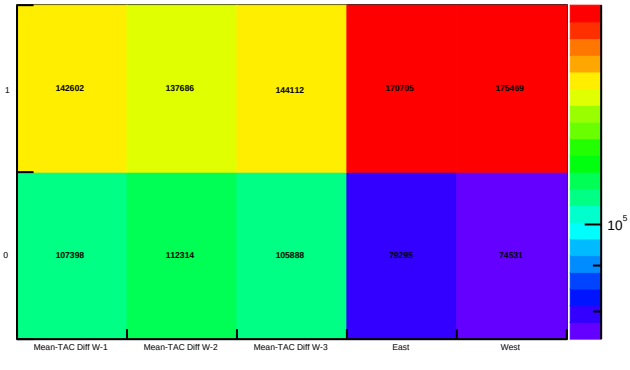
VT201 Input Ch4: VPD Tac Diff



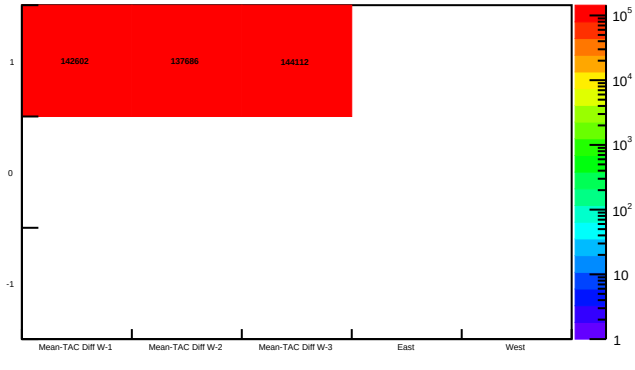
VT201 Input Ch4: VPD Tac Diff

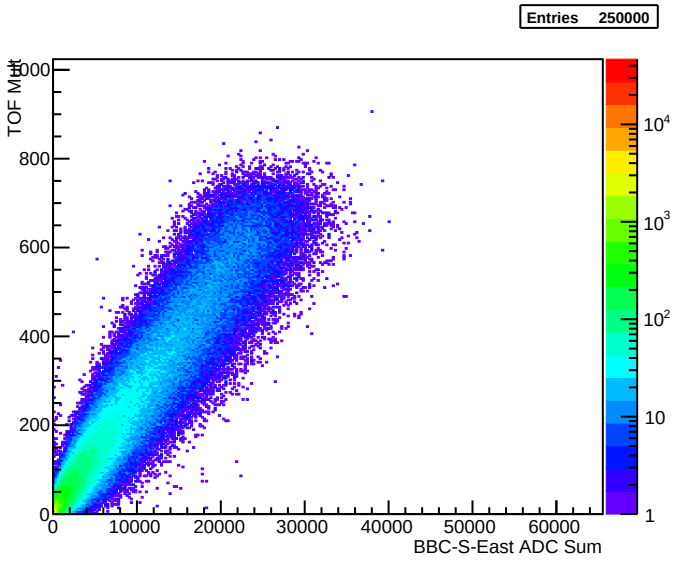


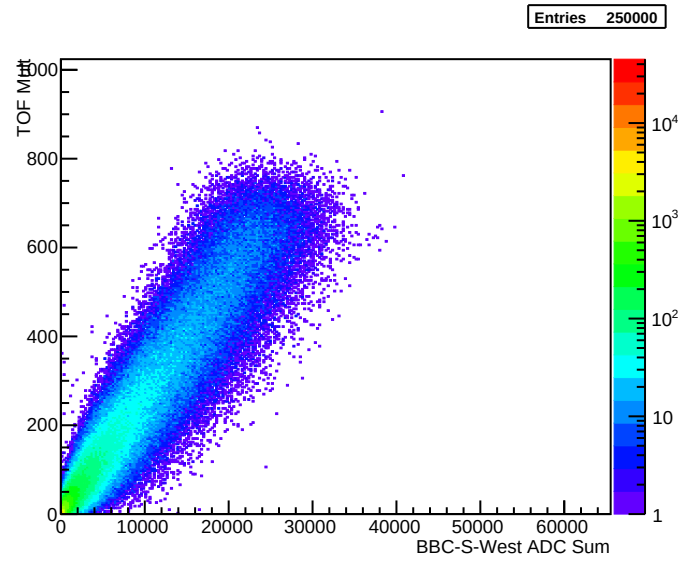
VT201 Input Ch4: VPD Adc Sum Th

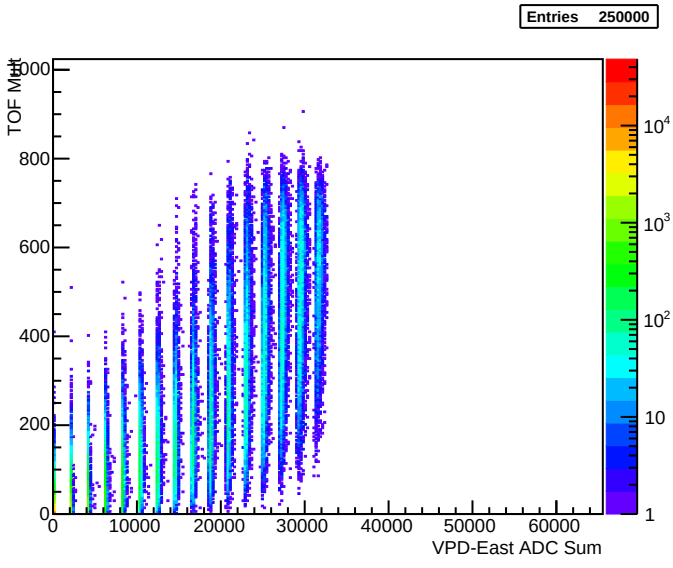


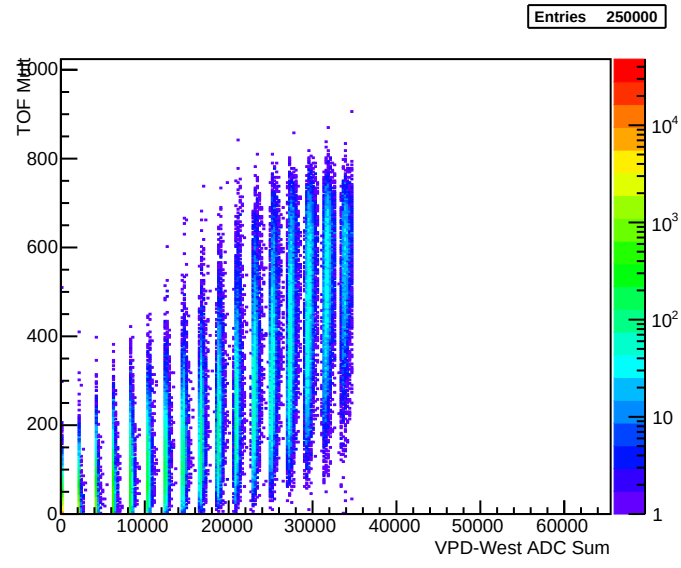
VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)

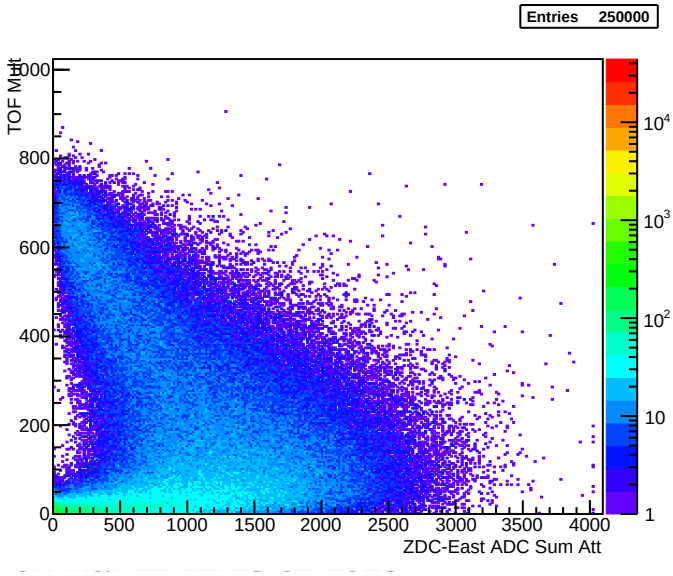


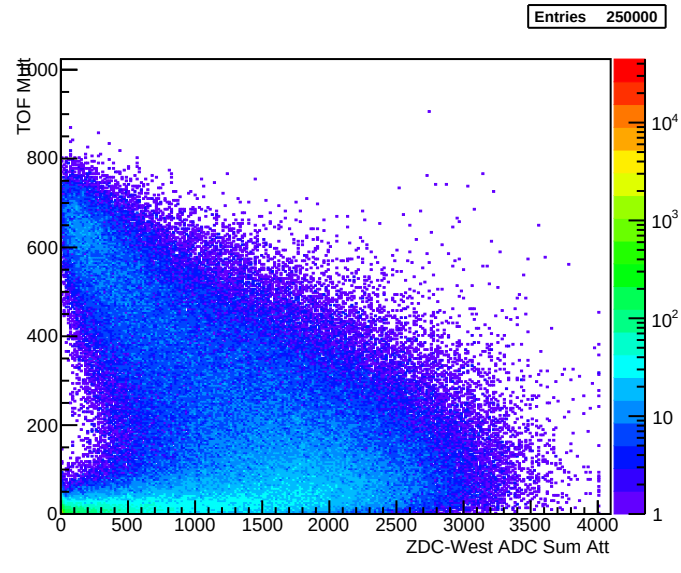

Entries 250000
TOF Mult
BBC-S-East ADC Sum

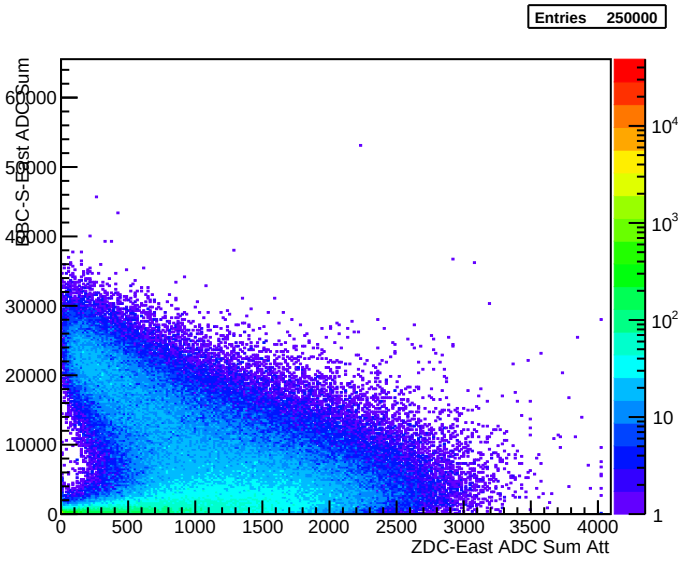

Entries 250000
TOF Mult
BBC-S-West ADC Sum

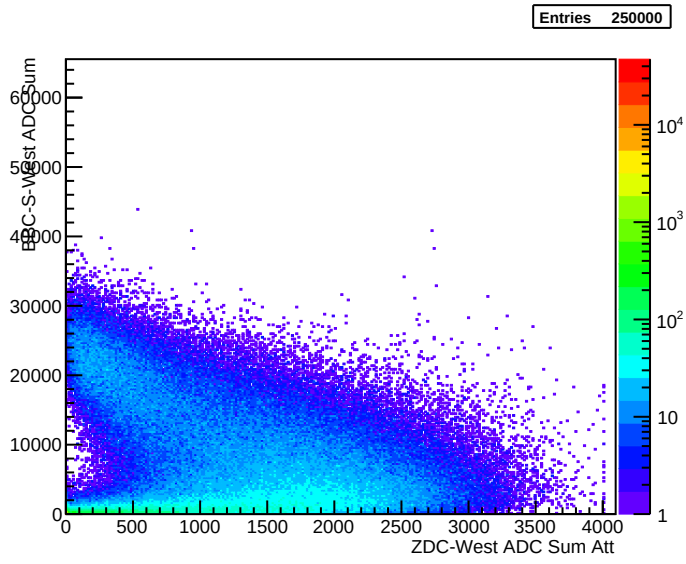

Entries 250000
TOF Mult
VPD-East ADC Sum

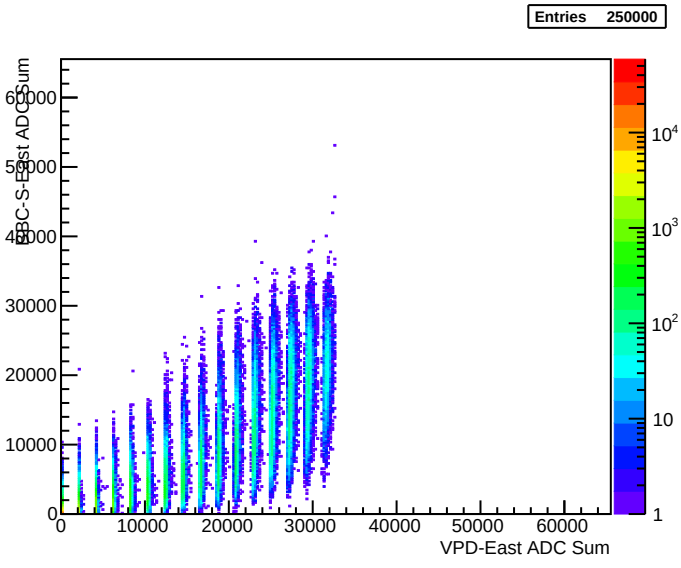

Entries 250000
TOF Mult
VPD-West ADC Sum

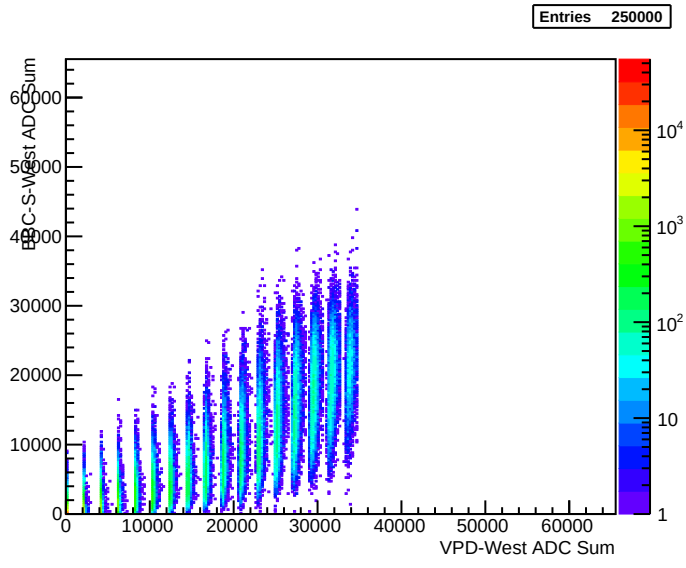

Entries 250000
TOF Mult
ZDC-East ADC Sum Att

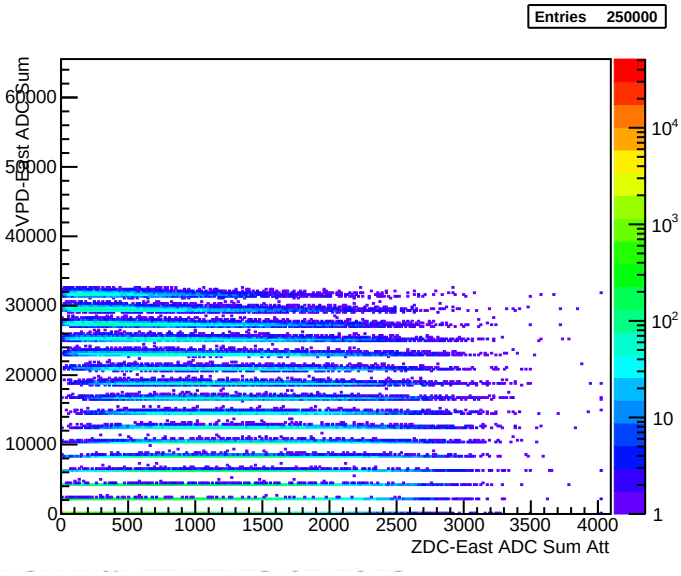

Entries 250000
TOF Mult
ZDC-West ADC Sum Att

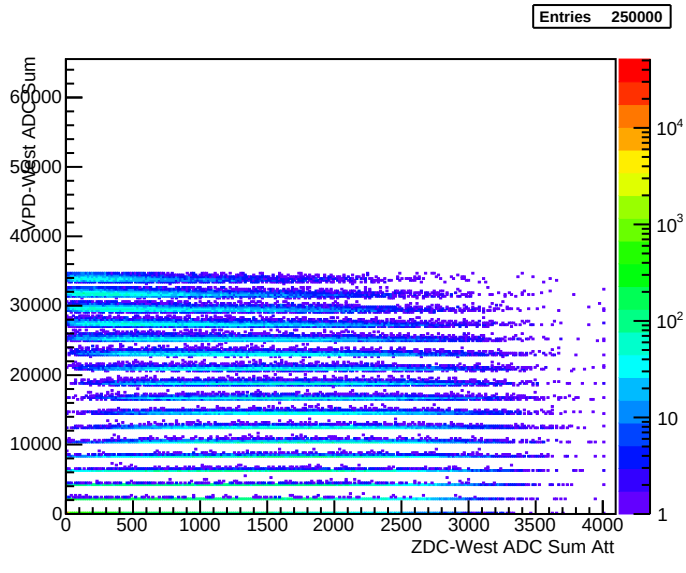

Entries 250000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

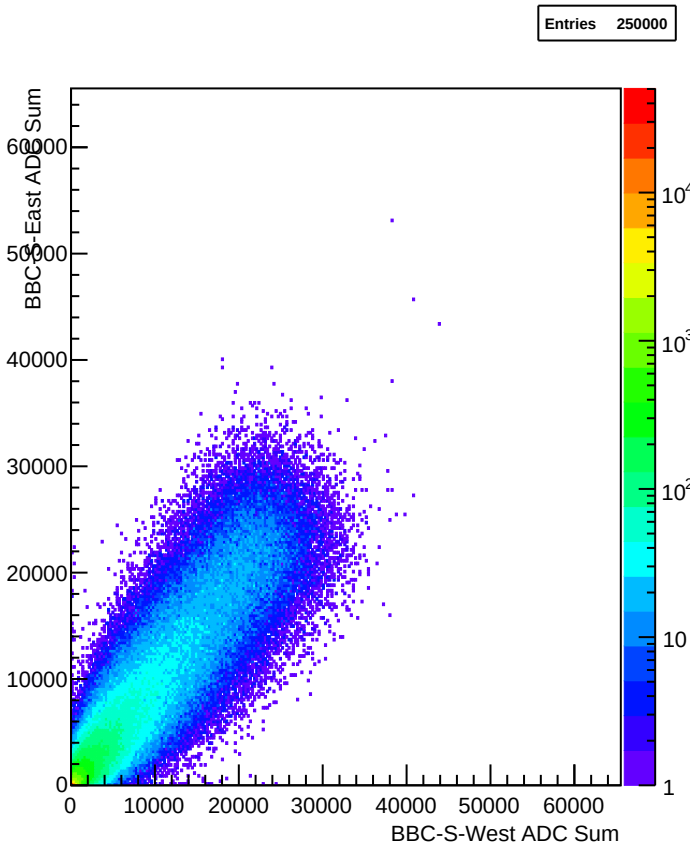

Entries 250000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

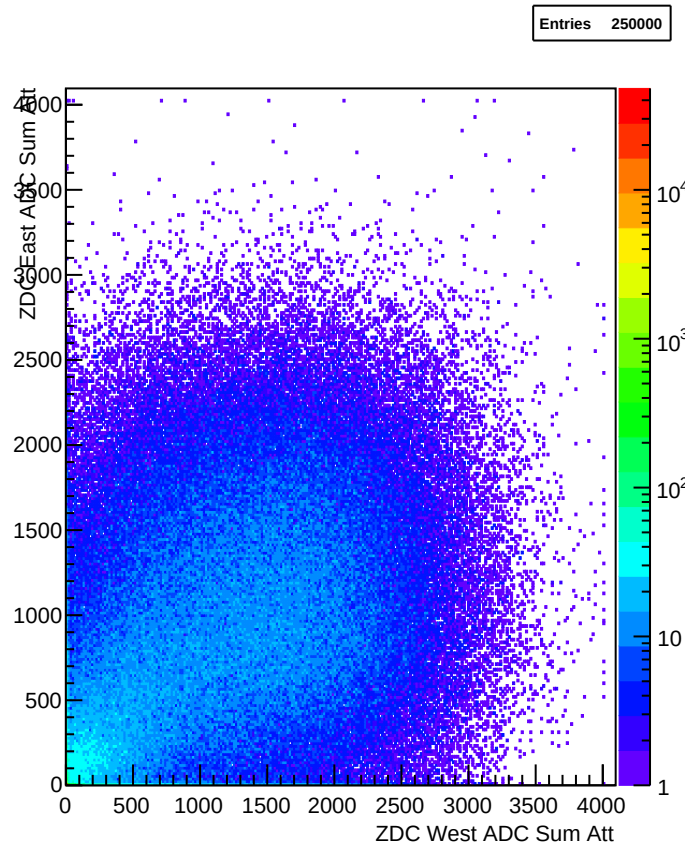

Entries 250000
BBC-S-East ADC Sum
VPD-East ADC Sum

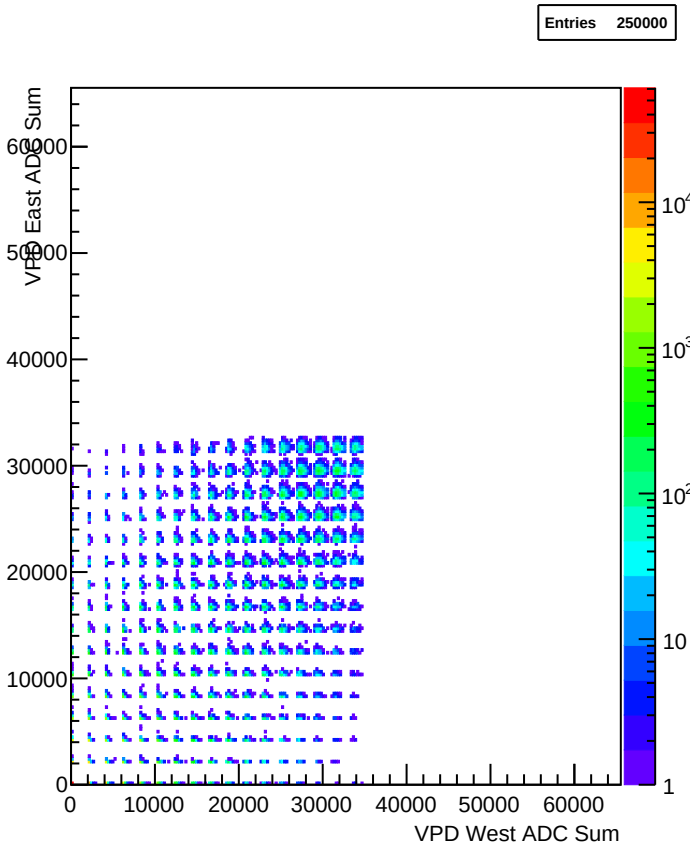

Entries 250000
BBC-S-West ADC Sum
VPD-West ADC Sum

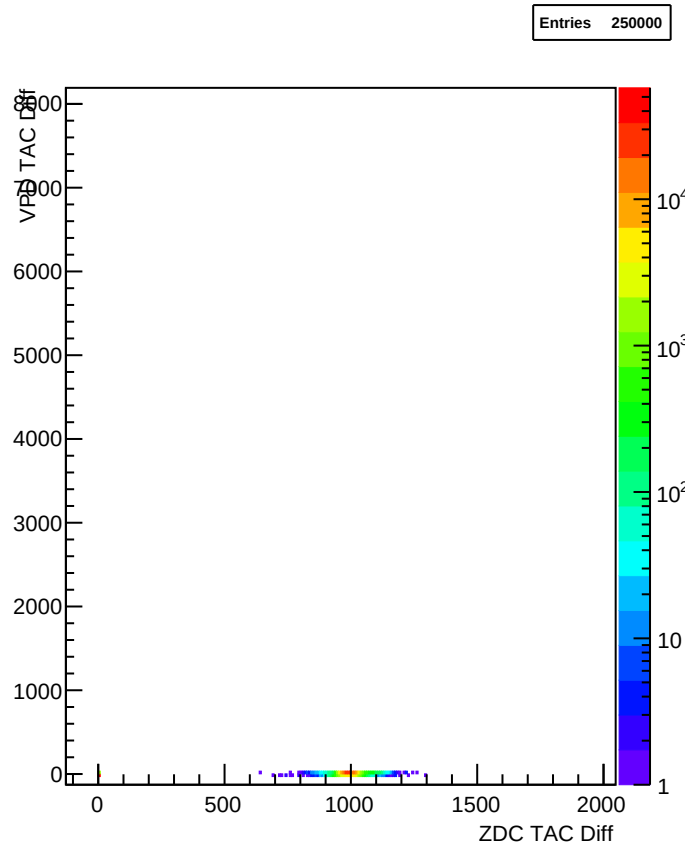

Entries 250000
VPD-East ADC Sum
ZDC-East ADC Sum Att

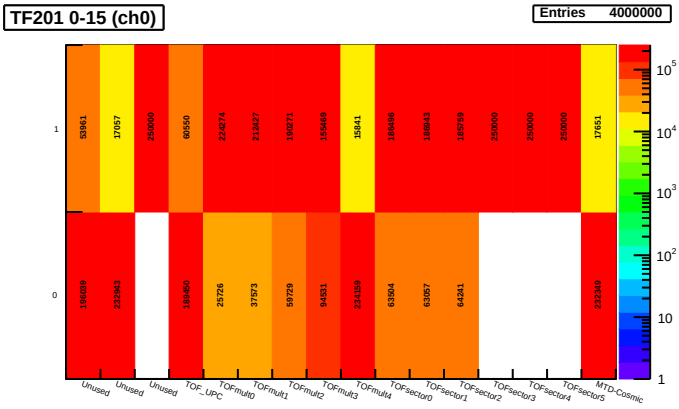

Entries 250000
VPD-West ADC Sum
ZDC-West ADC Sum Att

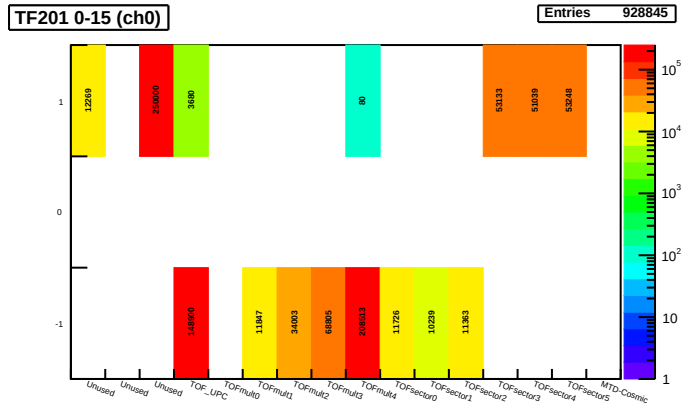

Entries 250000
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 250000
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 250000
VPD East ADC Sum
VPD West ADC Sum


Entries 250000
VPD TAC Diff
ZDC TAC Diff


TF201 0-15 (ch0)
Entries 4000000
53961 17057 250000 60550 224274 212427 199271 155469 15941 186496 188843 185759 250000 250000 250000 17651
196039 232943 189460 25726 37573 59729 94531 234159 63904 63957 64241 232349
Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic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12269 250000 3680 80 53133 51039 53248
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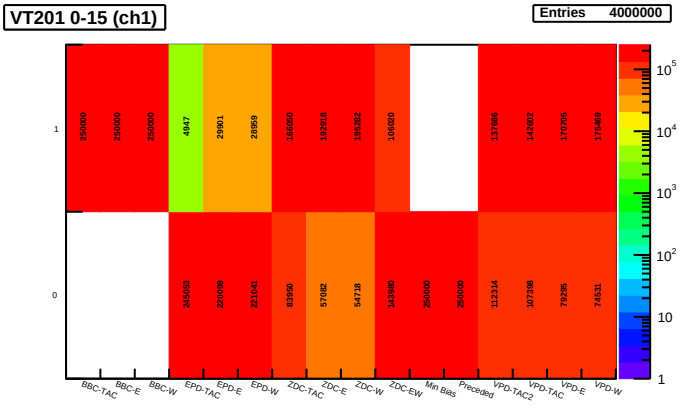
Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic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Entries 4000000
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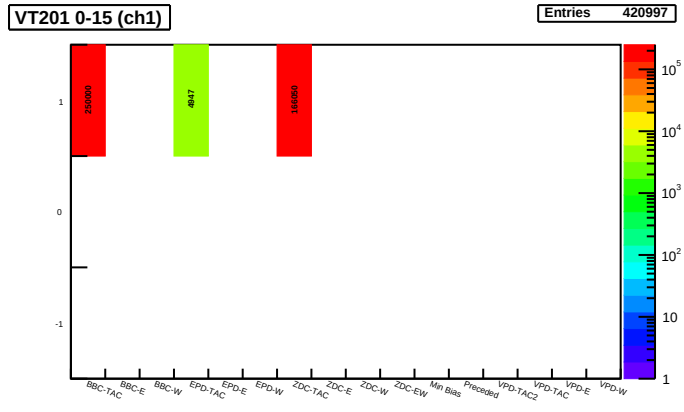
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W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Entries 420997
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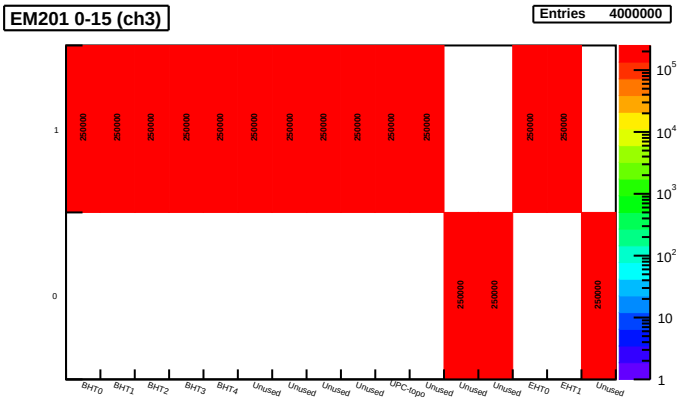
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W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Entries 4000000
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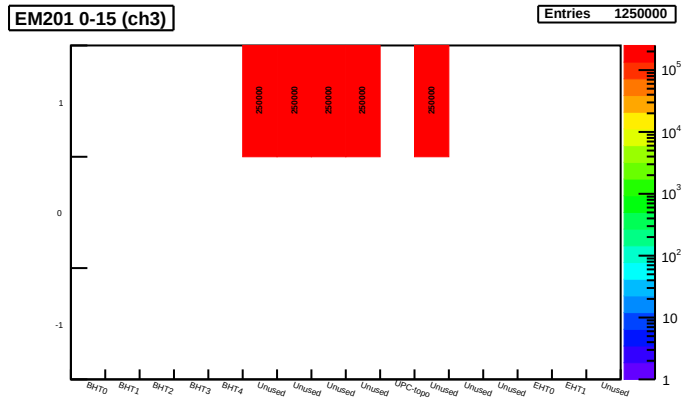
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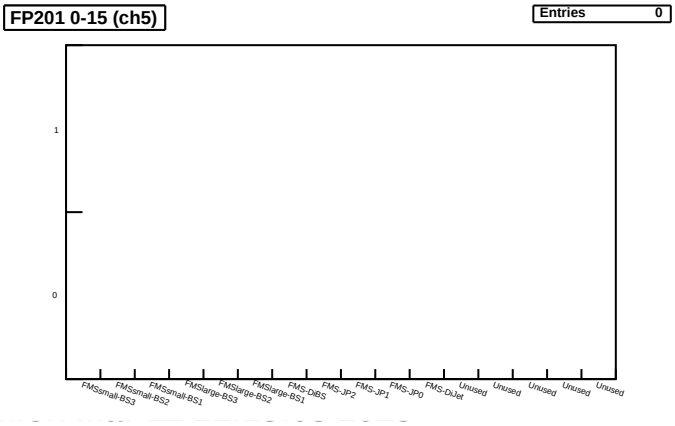
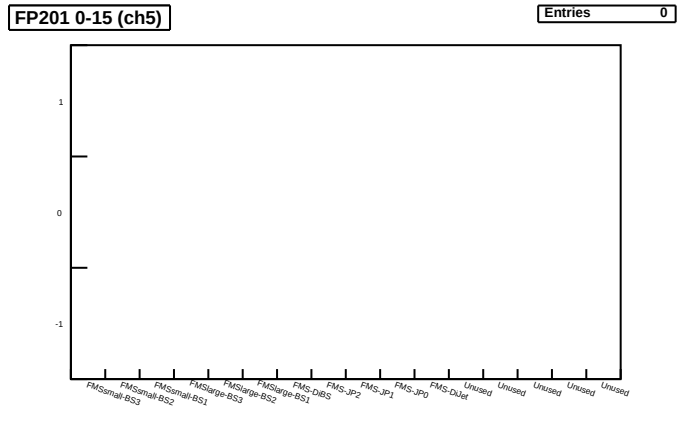

FP201 0-15 (ch5)
Entries 0
FMSsmall-BS3 FMSsmall-BS2 FMSsmall-BS1 FMSlarge-BS3 FMSlarge-BS2 FMSlarge-BS1 FMS-DiBS FMS-JP2 FMS-JP1 FMS-JP0 FMS-DiJet Unused Unused Unused Unused Unused


FP201 0-15 (ch5)
Entries 0
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