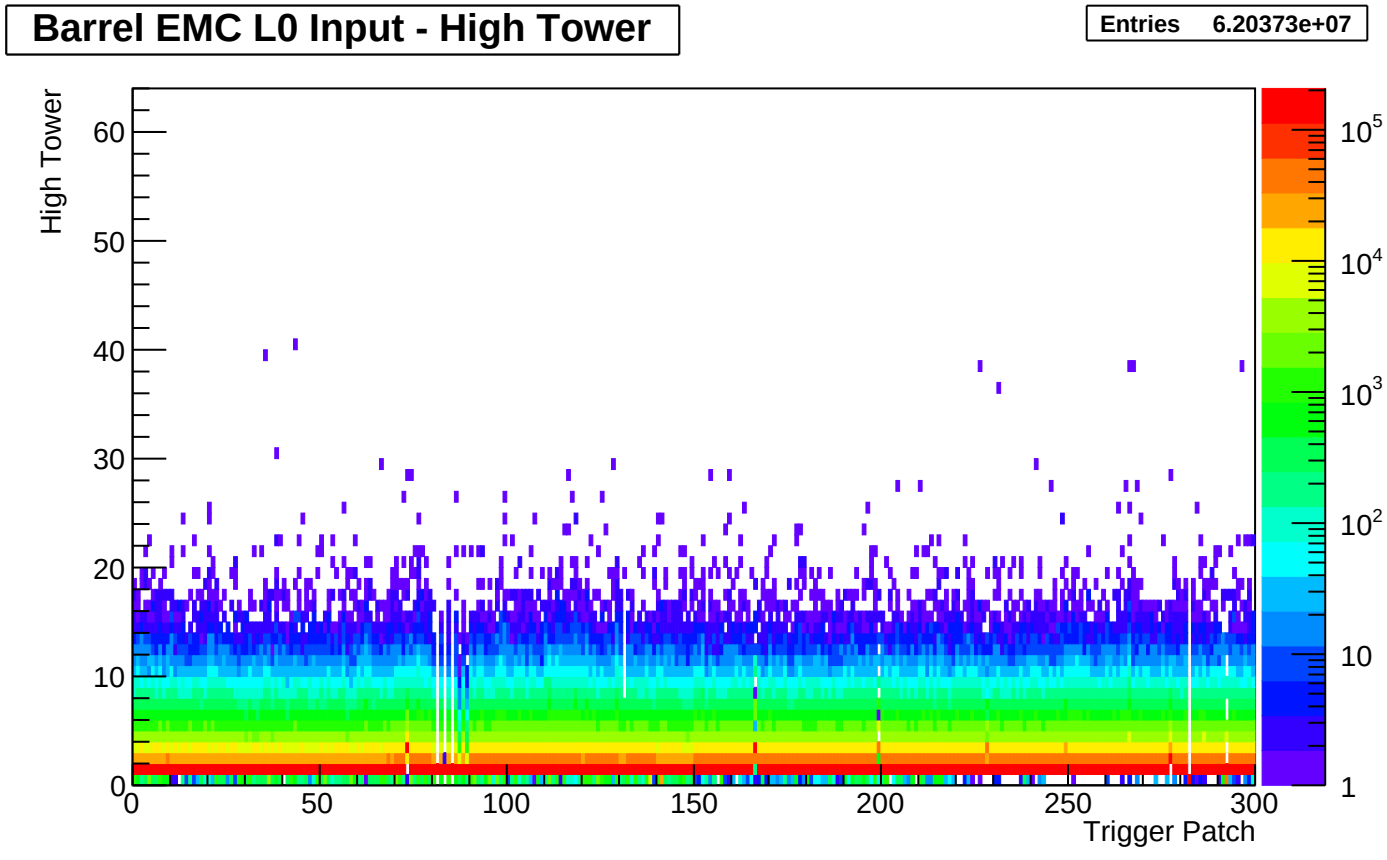
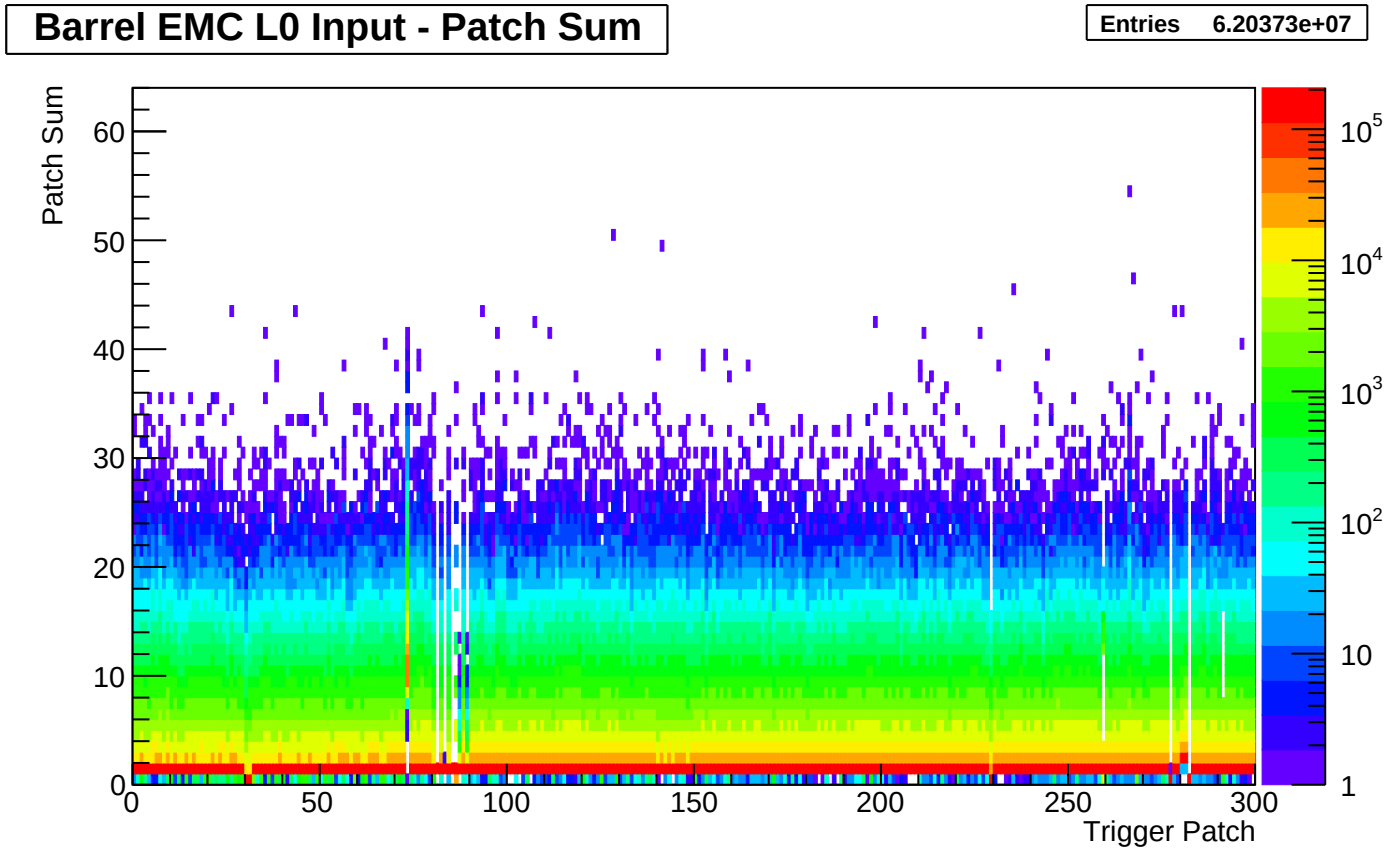
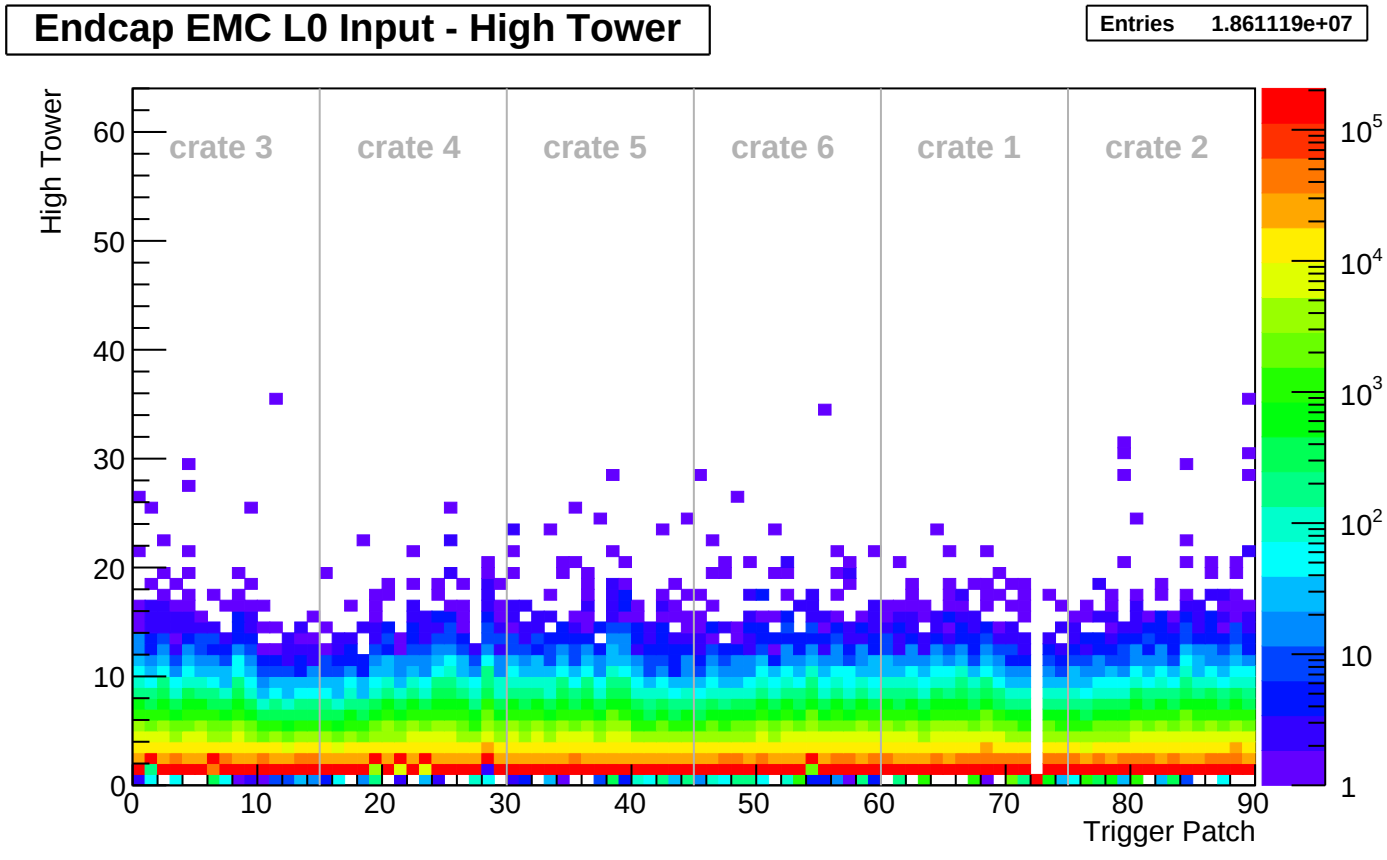
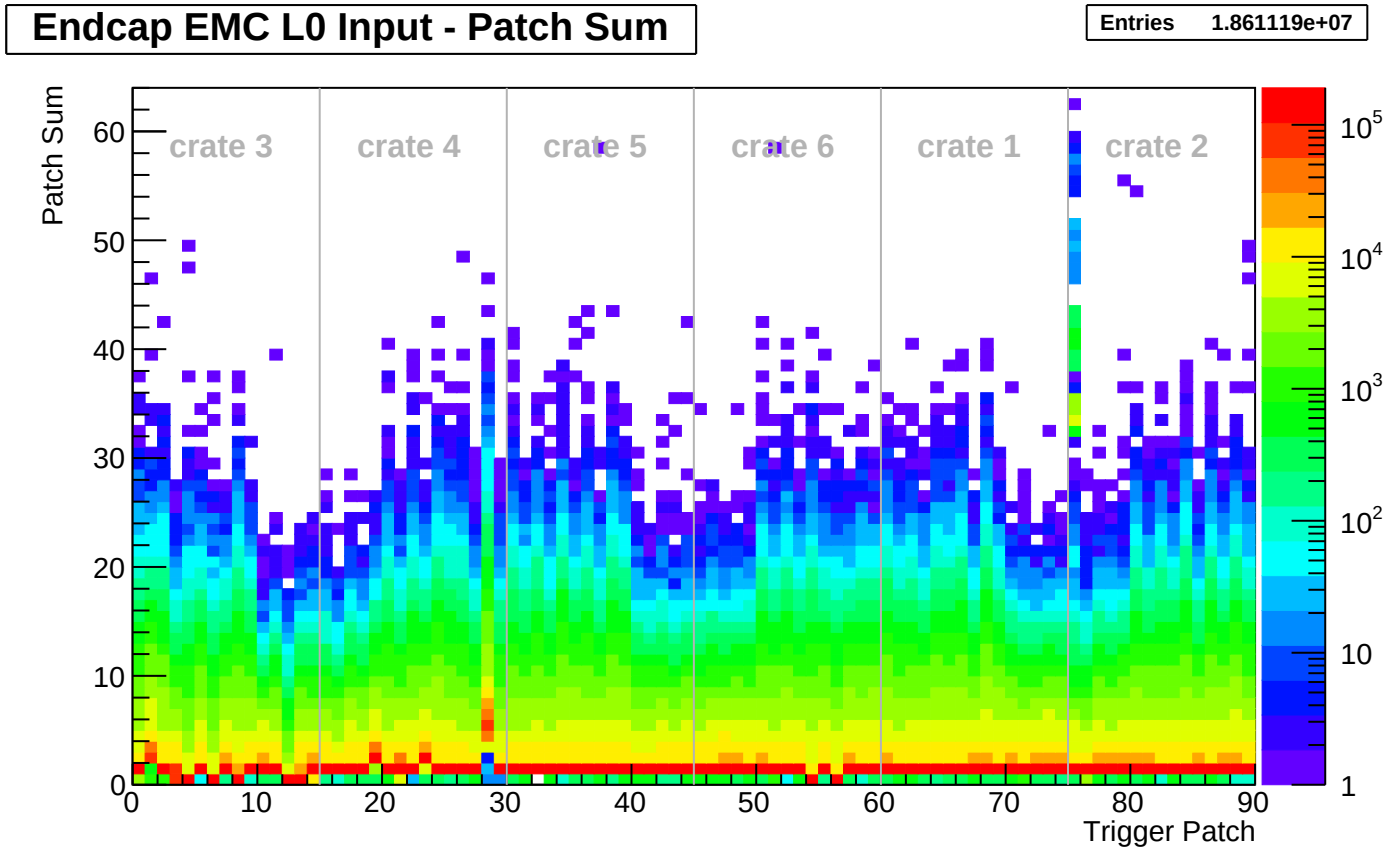
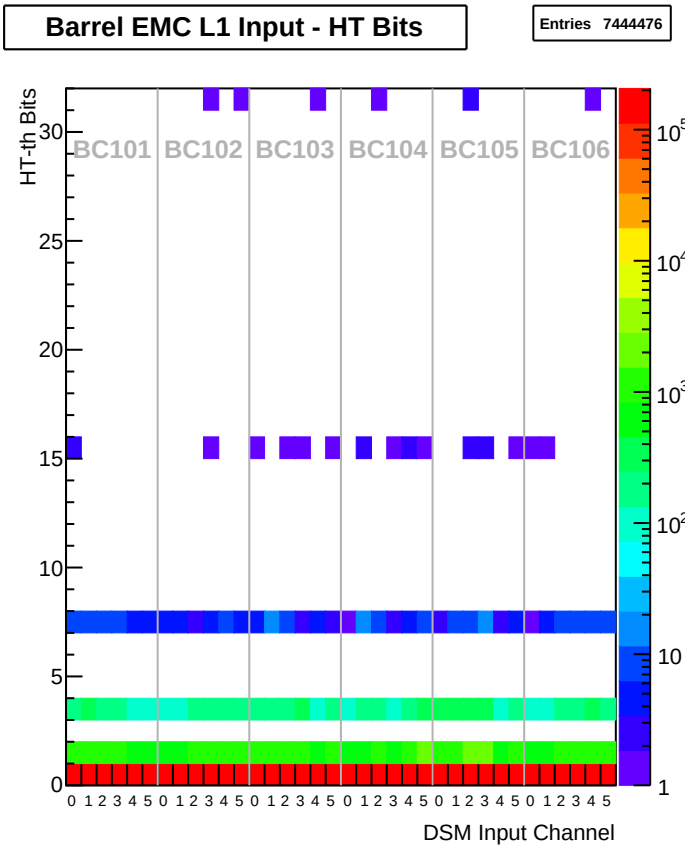
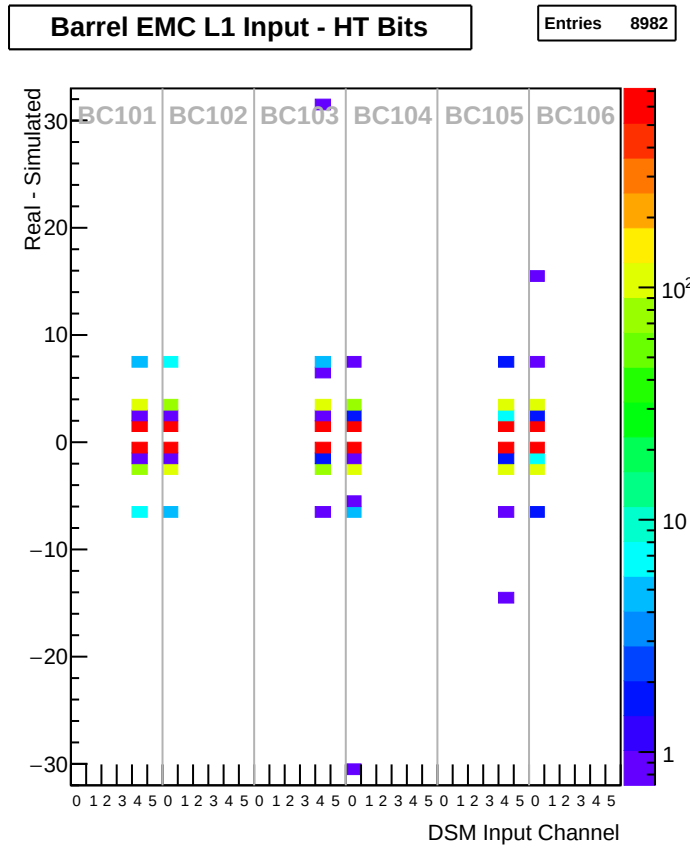

Barrel EMC L0 Input - High Tower
Entries 6.20373e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

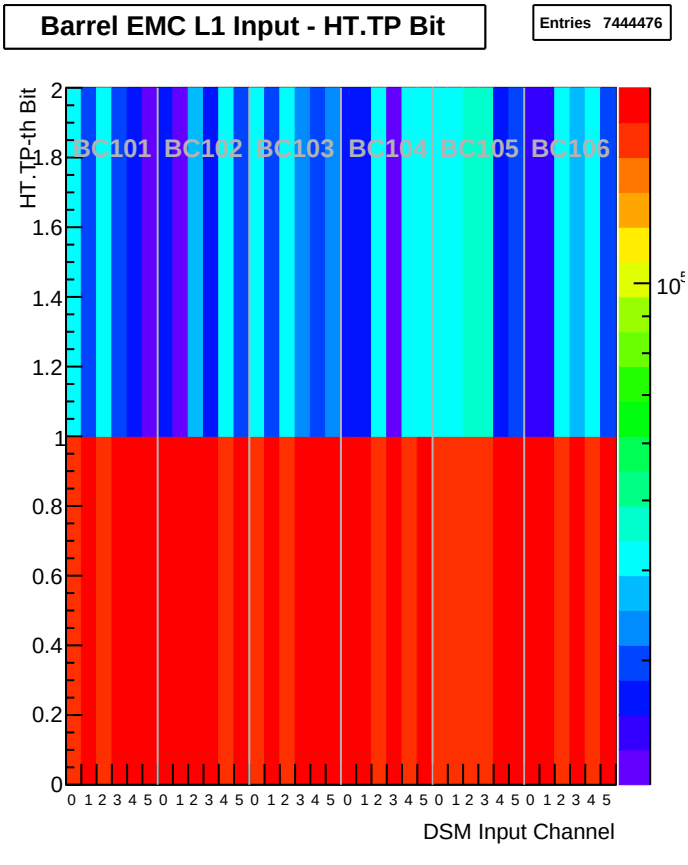

Barrel EMC L0 Input - Patch Sum
Entries 6.20373e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

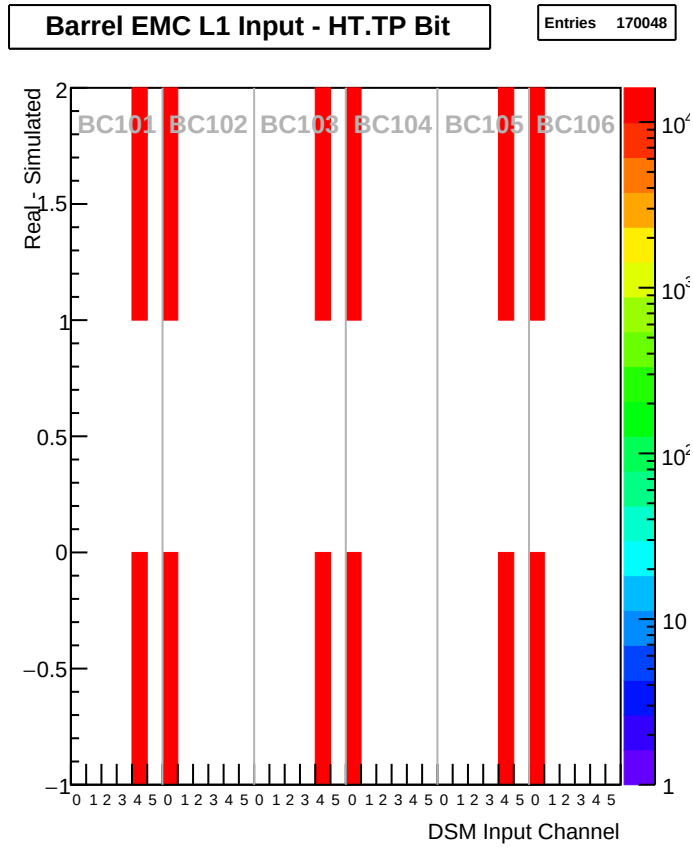

Endcap EMC L0 Input - High Tower
Entries 1.861119e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

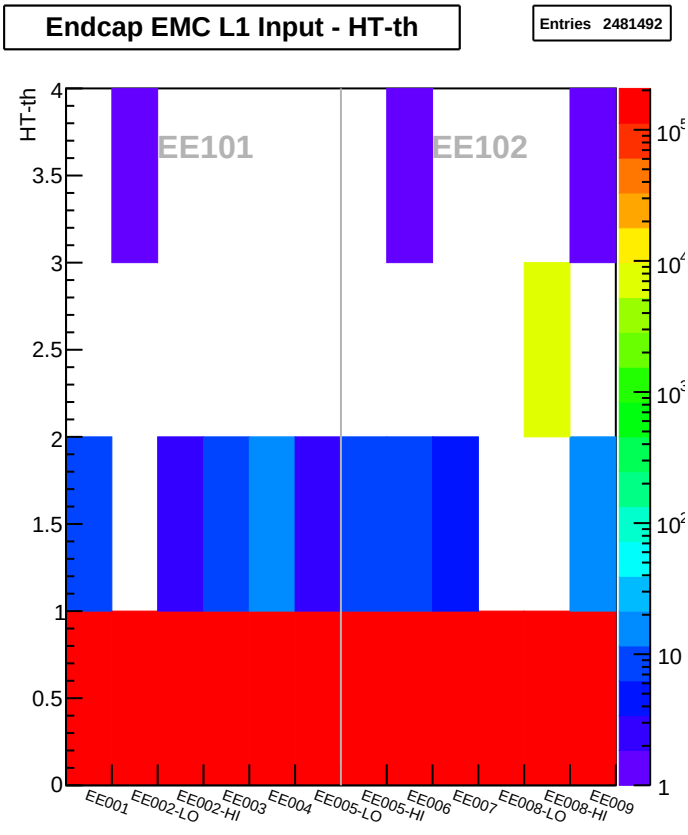

Endcap EMC L0 Input - Patch Sum
Entries 1.861119e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

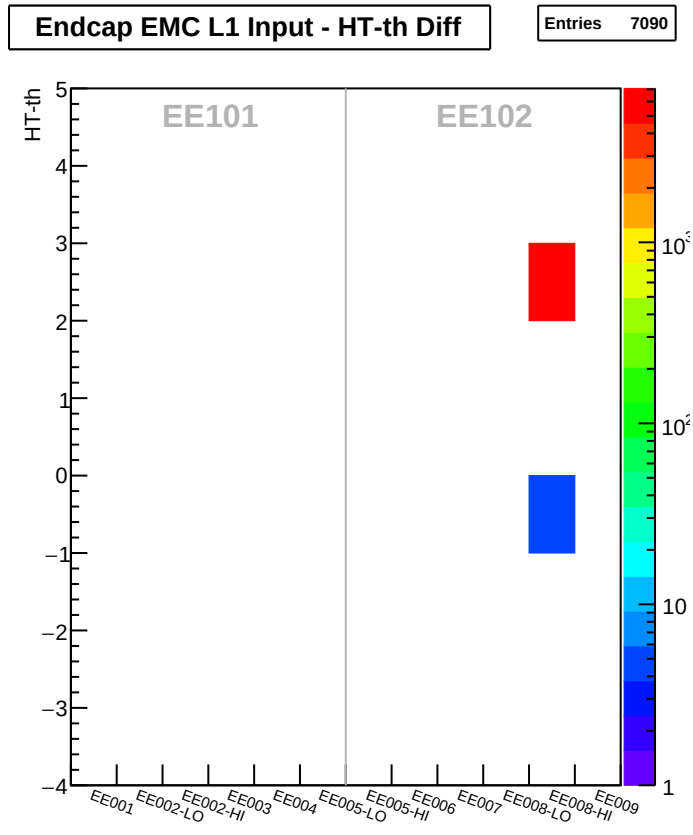

Barrel EMC L1 Input - HT Bits
Entries 7444476
HT-th Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

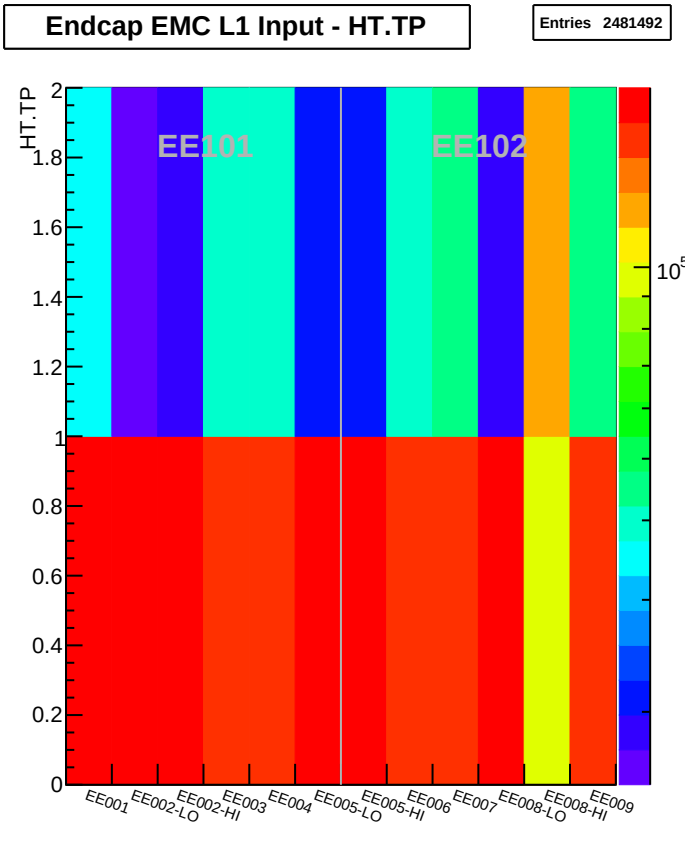

Barrel EMC L1 Input - HT Bits
Entries 8982
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

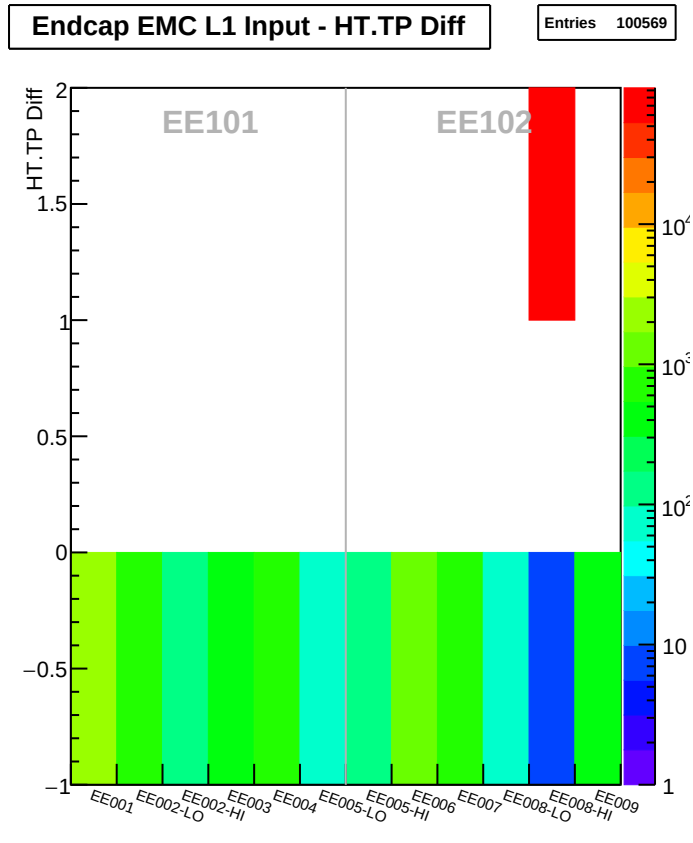

Barrel EMC L1 Input - HT.TP Bit
Entries 7444476
HT.TP-th Bit
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

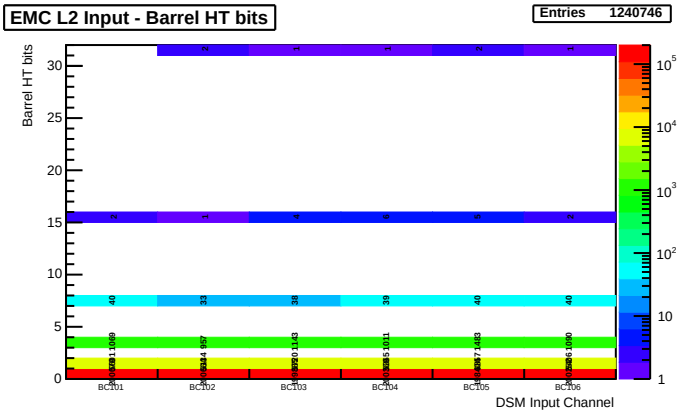

Barrel EMC L1 Input - HT.TP Bit
Entries 170048
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

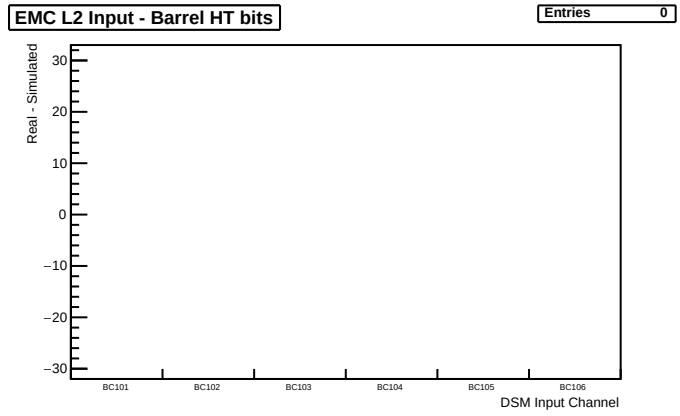

Endcap EMC L1 Input - HT-th
Entries 2481492
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

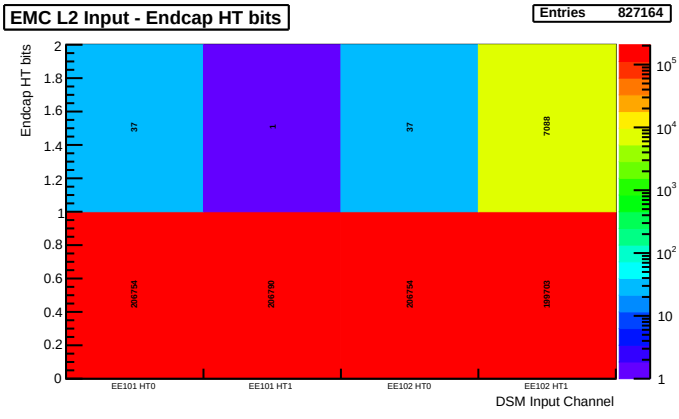

Endcap EMC L1 Input - HT-th Diff
Entries 7090
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

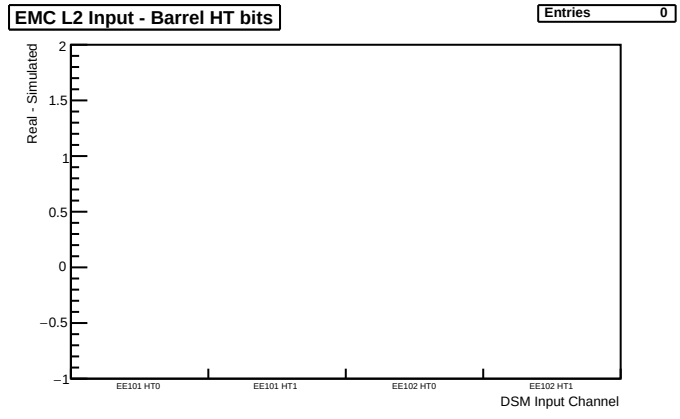

Endcap EMC L1 Input - HT.TP
Entries 2481492
HT.TP
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

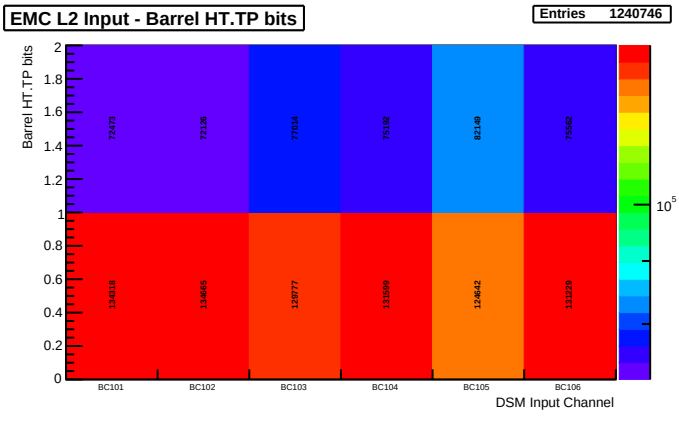

Endcap EMC L1 Input - HT.TP Diff
Entries 100569
HT.TP Diff
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

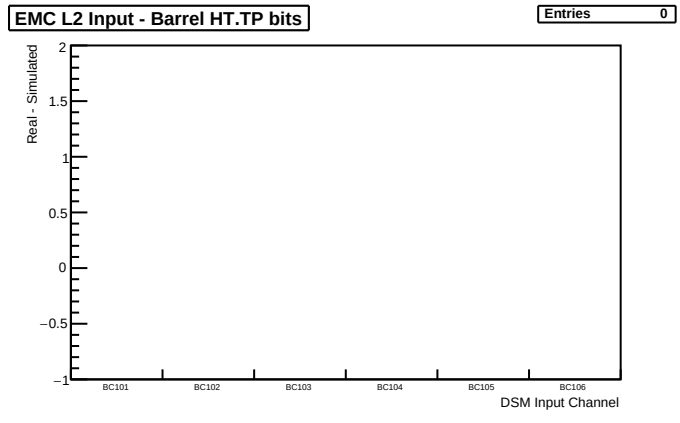

EMC L2 Input - Barrel HT bits
Entries 1240746
Barrel HT bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

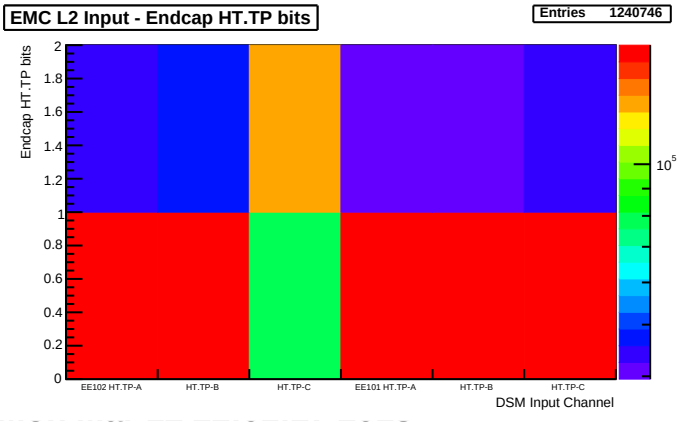

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

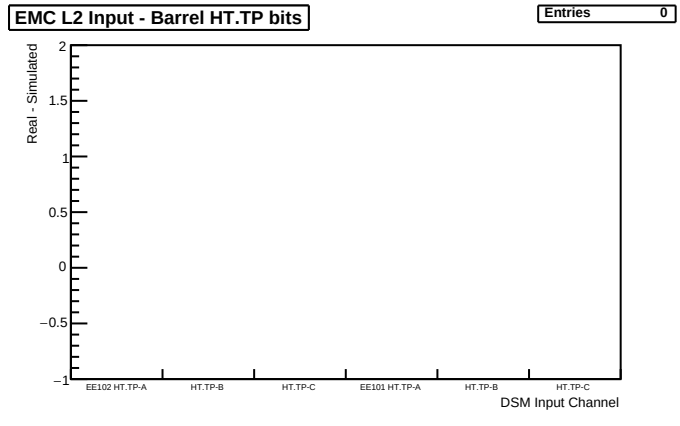

EMC L2 Input - Endcap HT bits
Entries 827164
Endcap HT bits
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

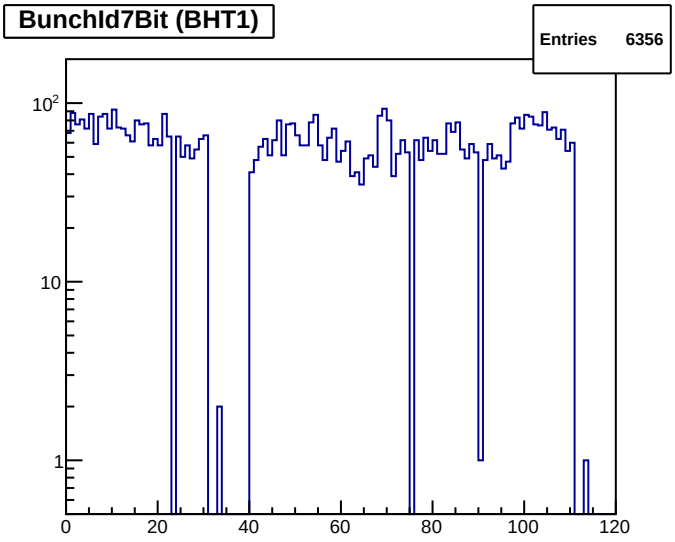

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

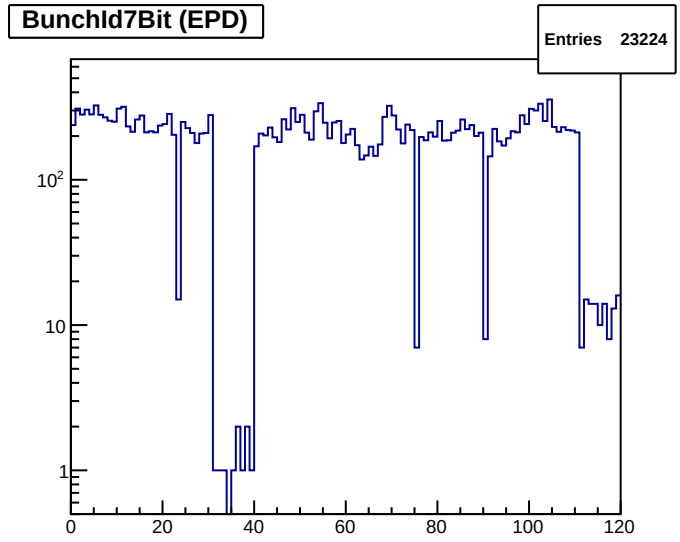

EMC L2 Input - Barrel HT.TP bits
Entries 1240746
Barrel HT.TP bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

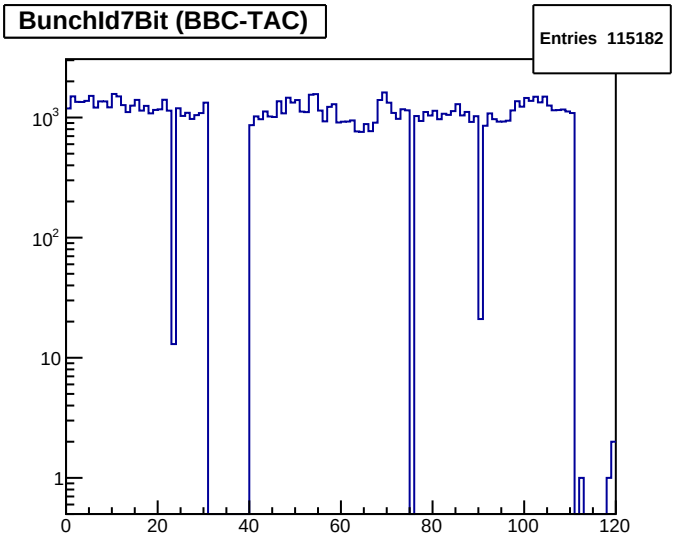

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

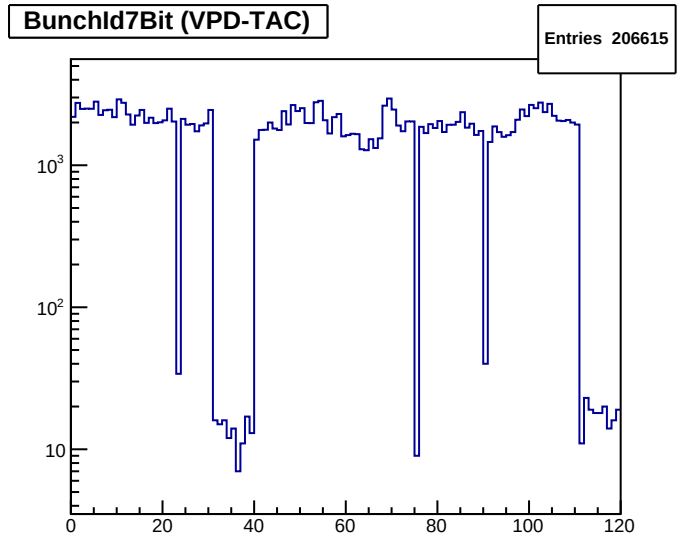

EMC L2 Input - Endcap HT.TP bits
Entries 1240746
Endcap HT.TP bits
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

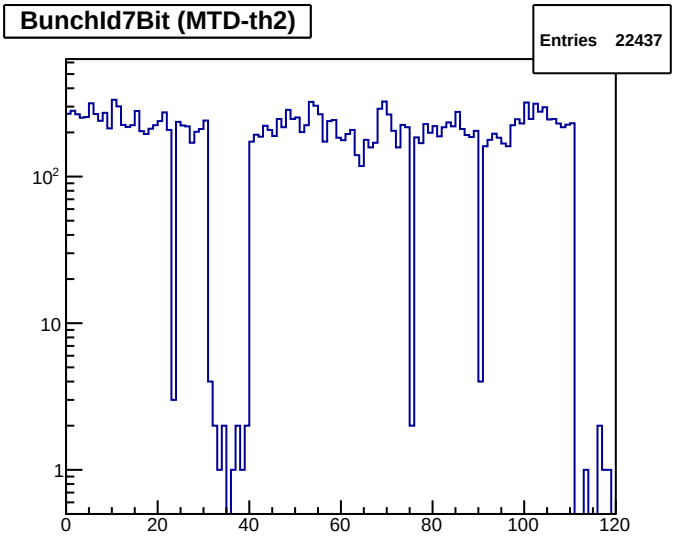

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

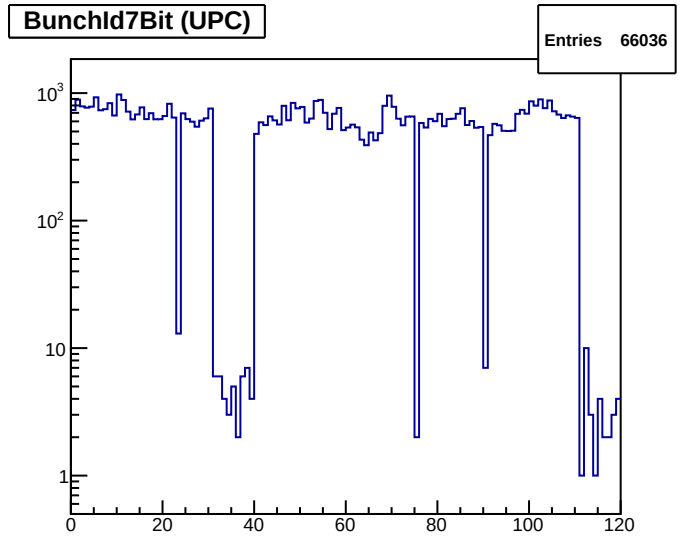

BunchId7Bit (BHT1)
Entries 6356

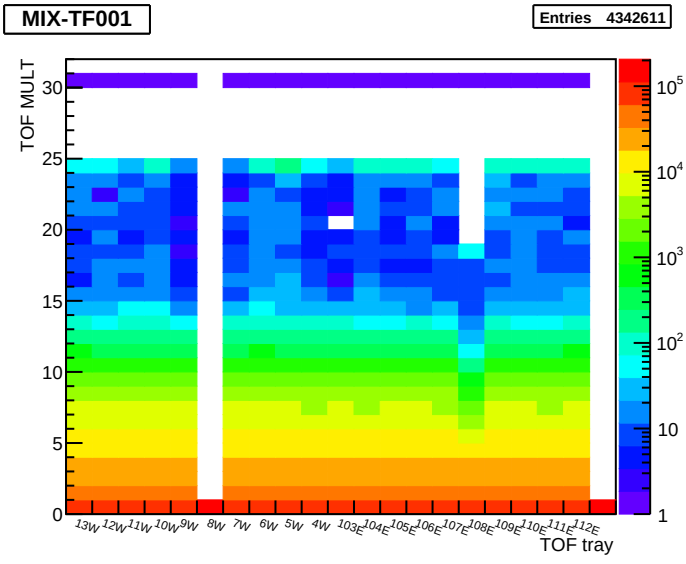

BunchId7Bit (EPD)
Entries 23224

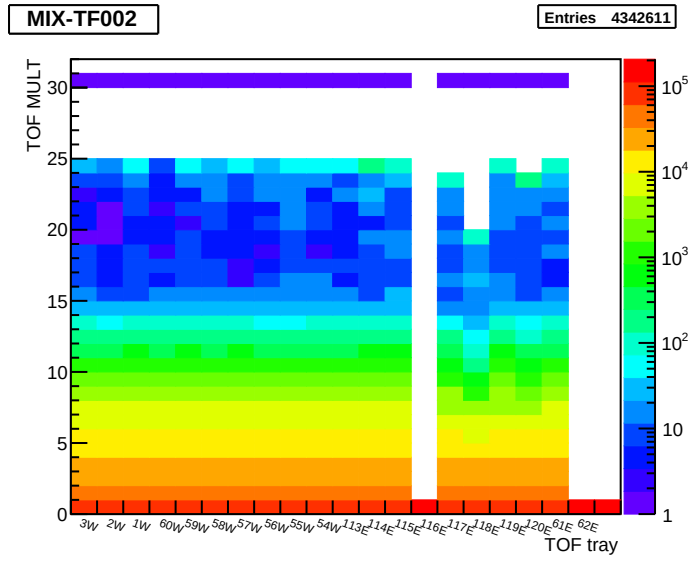

BunchId7Bit (BBC-TAC)
Entries 115182

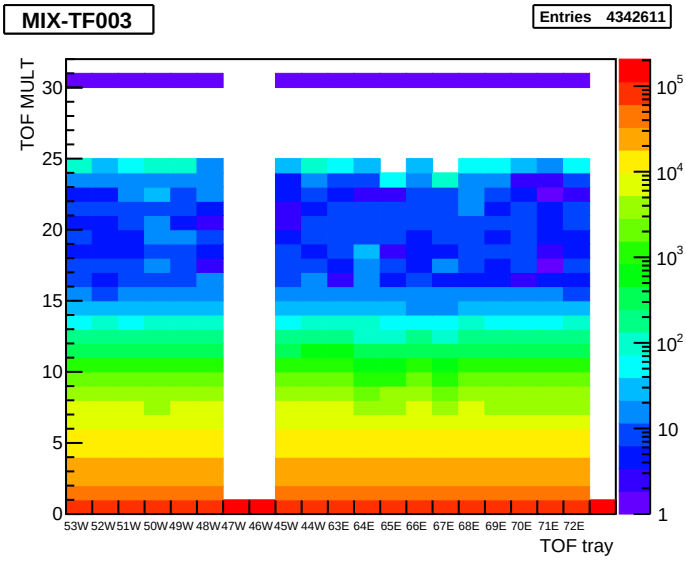

BunchId7Bit (VPD-TAC)
Entries 206615

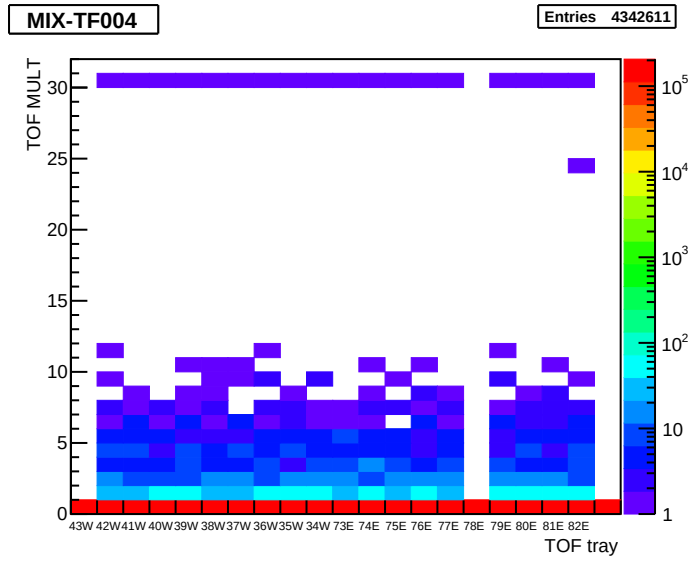

BunchId7Bit (MTD-th2)
Entries 22437

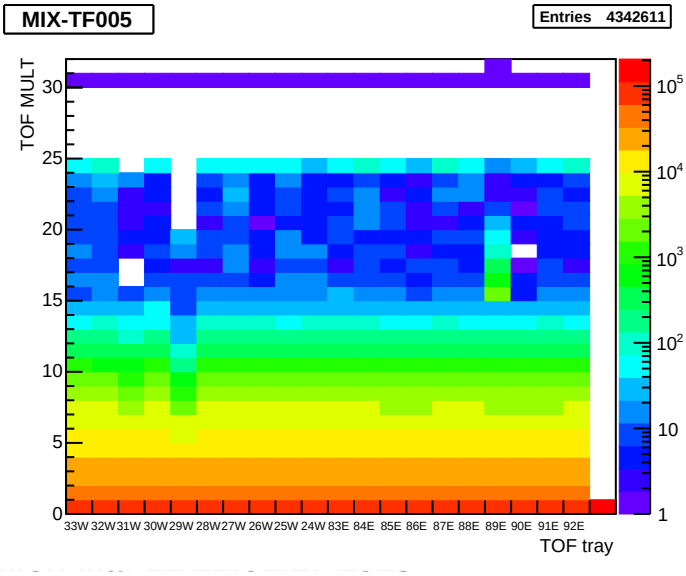

BunchId7Bit (UPC)
Entries 66036

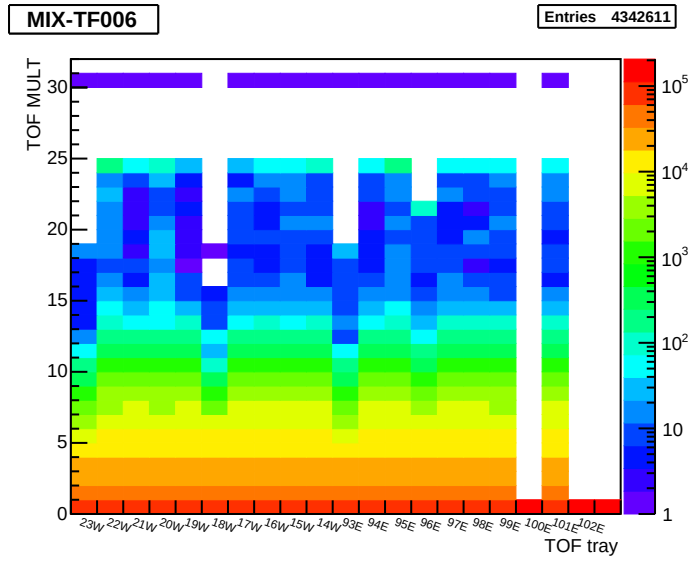

MIX-TF001
Entries 4342611
TOF MULT
TOF tray

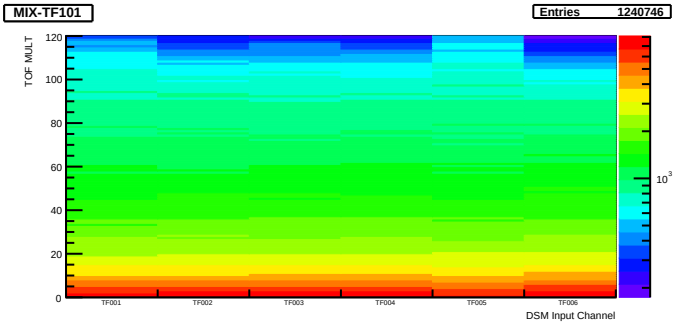

MIX-TF002
Entries 4342611
TOF MULT
TOF tray

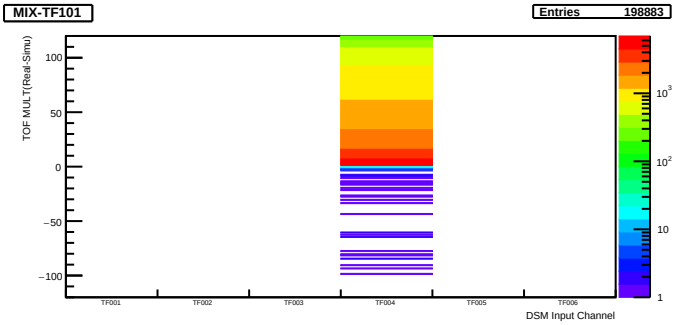

MIX-TF003
Entries 4342611
TOF MULT
TOF tray

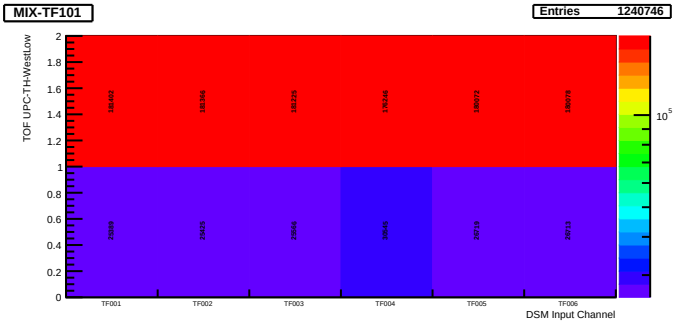

MIX-TF004
Entries 4342611
TOF MULT
TOF tray

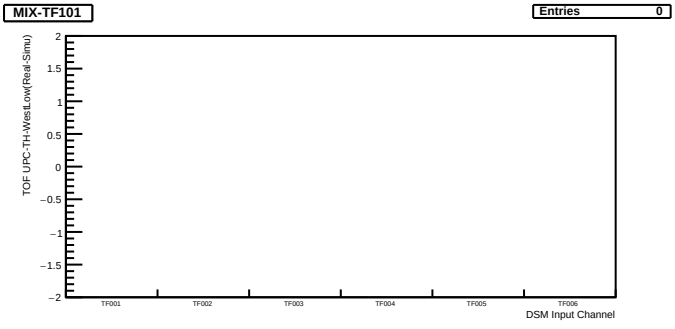

MIX-TF005
Entries 4342611
TOF MULT
TOF tray

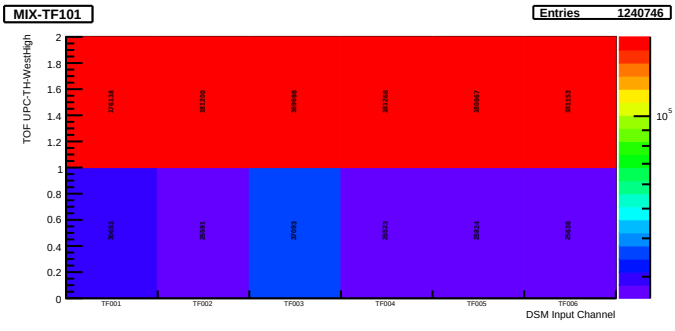

MIX-TF006
Entries 4342611
TOF MULT
TOF tray

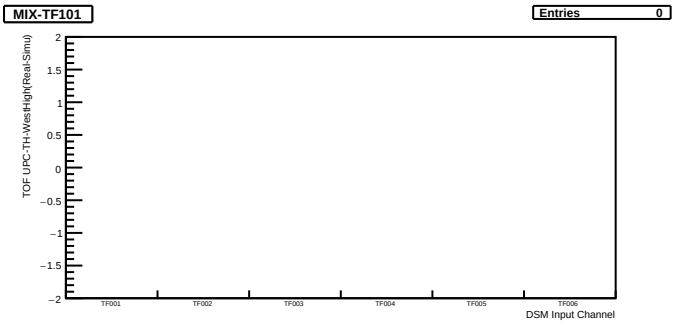

MIX-TF101
Entries 1240746
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

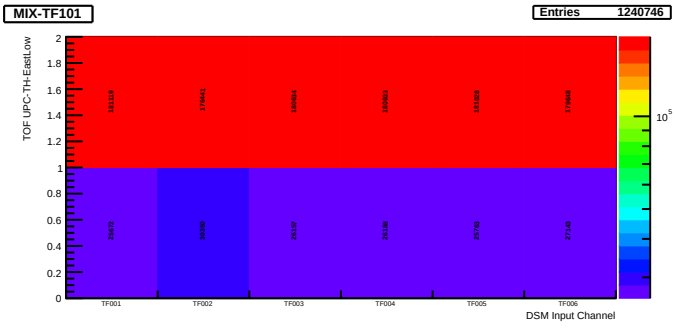

MIX-TF101
Entries 198883
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

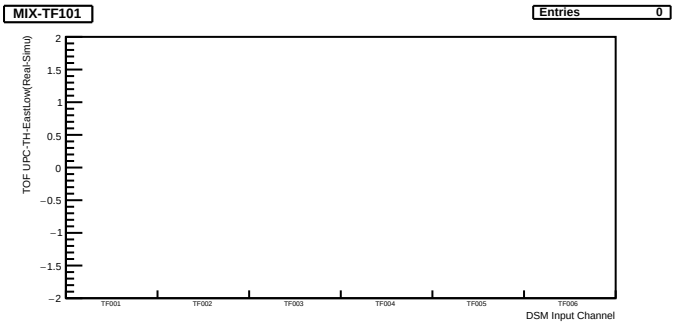

MIX-TF101
Entries 1240746
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

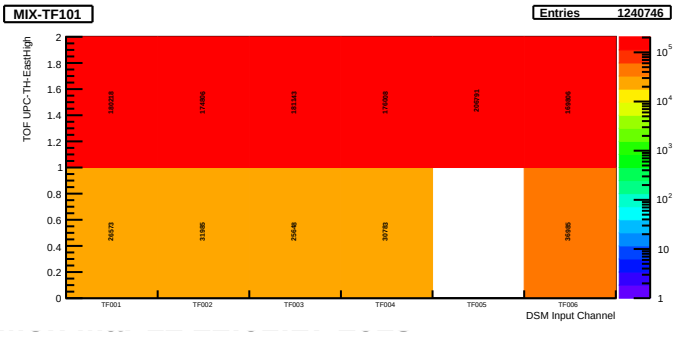

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

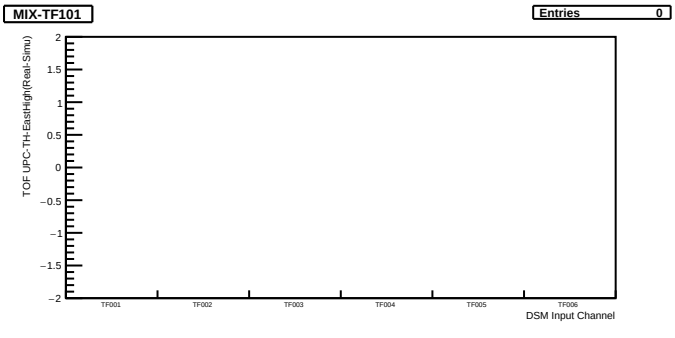

MIX-TF101
Entries 1240746
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

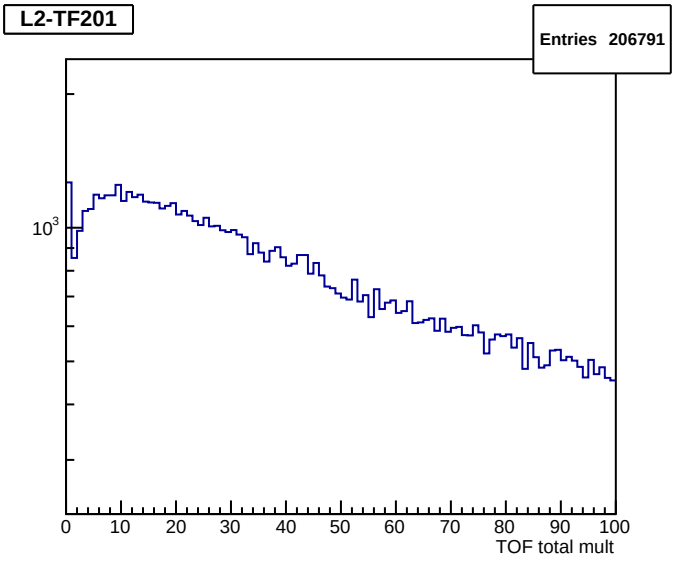

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

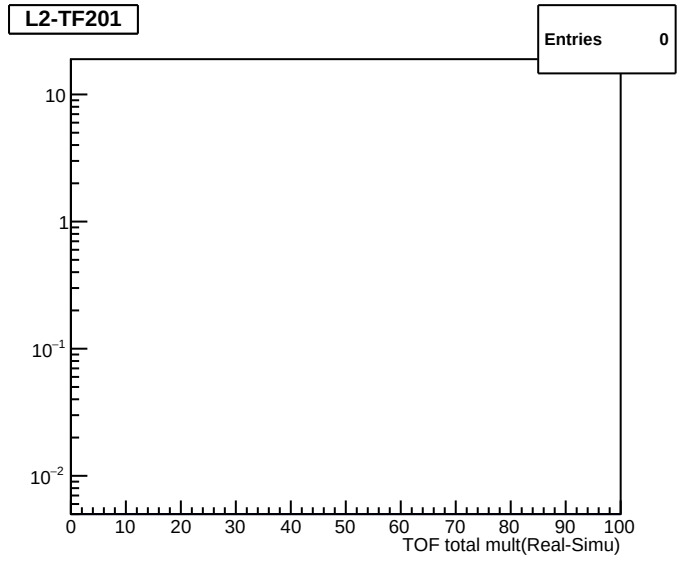

MIX-TF101
Entries 1240746
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

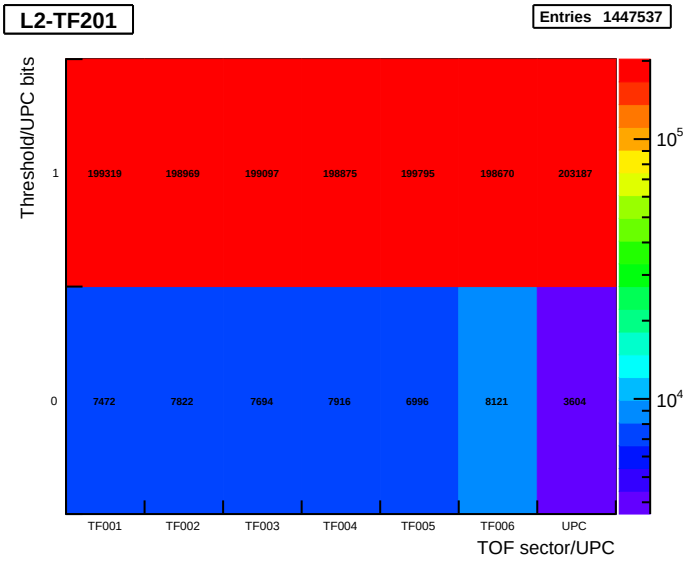

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

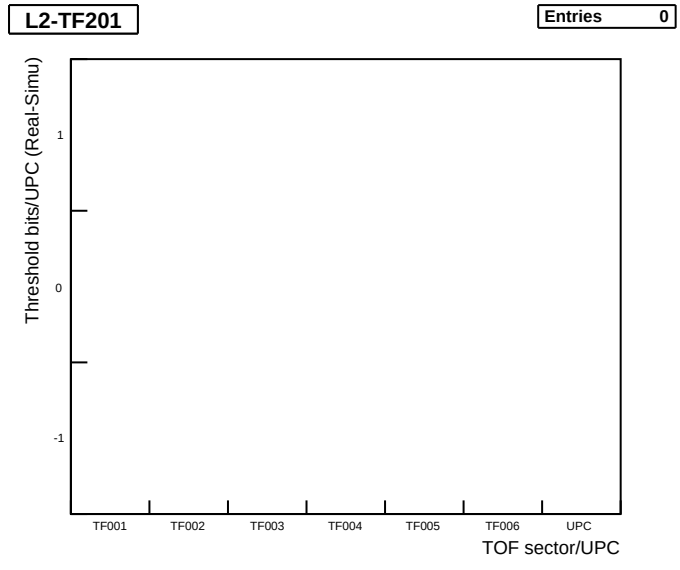

MIX-TF101
Entries 1240746
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

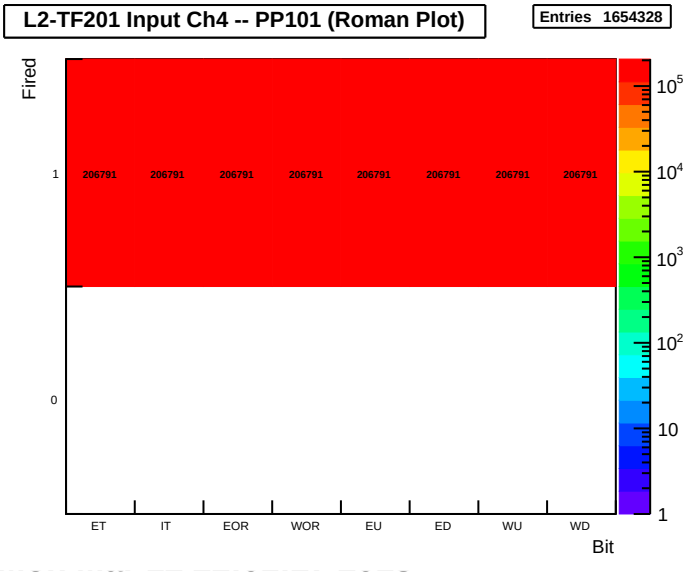

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

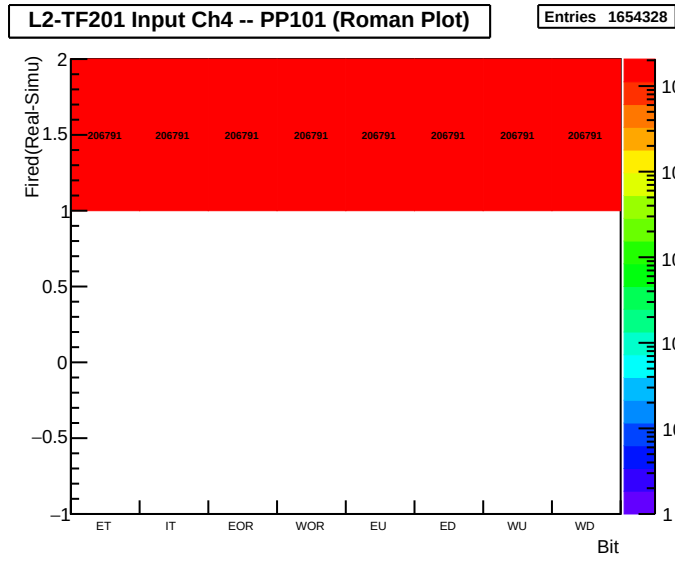

L2-TF201
Entries 206791
10^3
0 10 20 30 40 50 60 70 80 90 100
TOF total mult

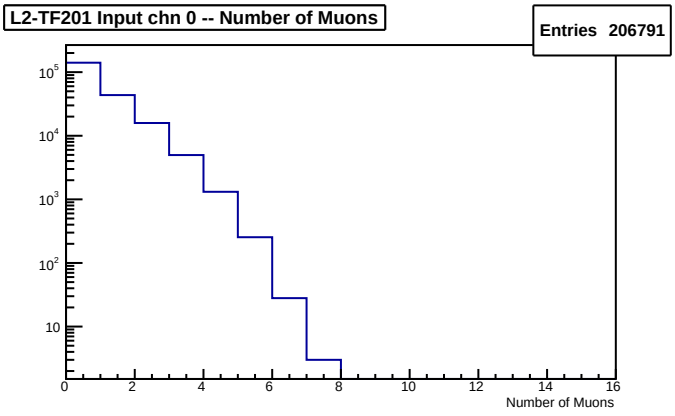

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
0 10 20 30 40 50 60 70 80 90 100
TOF total mult(Real-Simu)

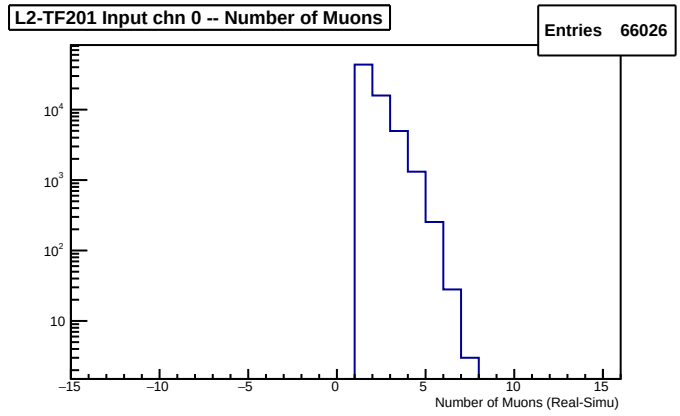

L2-TF201
Entries 1447537
Threshold/UPC bits
1
0
199319 198969 199097 198875 199795 198670 203187
7472 7822 7694 7916 6996 8121 3604
10^5
10^4
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

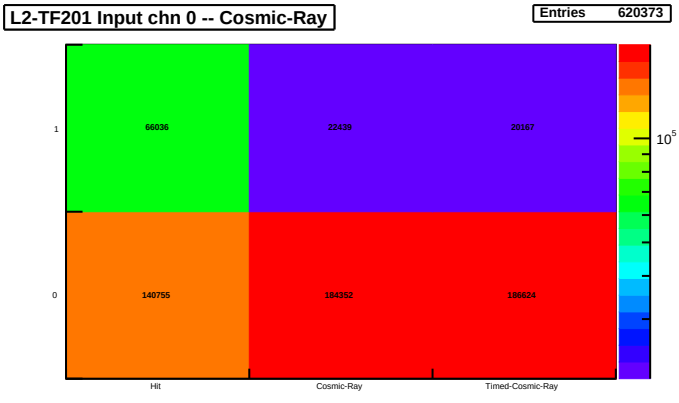

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

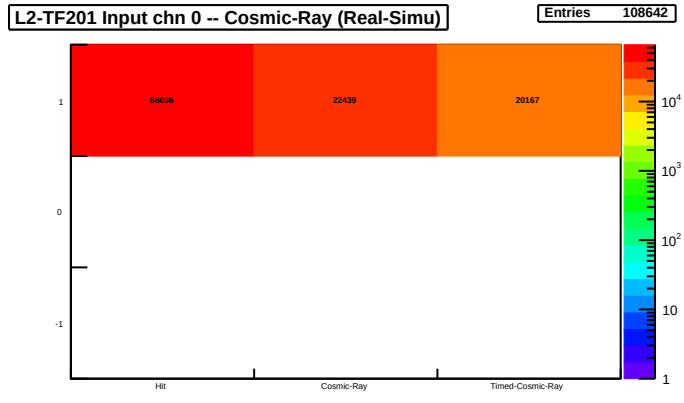

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 1654328
Fired
1
0
206791 206791 206791 206791 206791 206791 206791 206791
10^5
10^4
10^3
10^2
10
1
ET IT EOR WOR EU ED WU WD
Bit

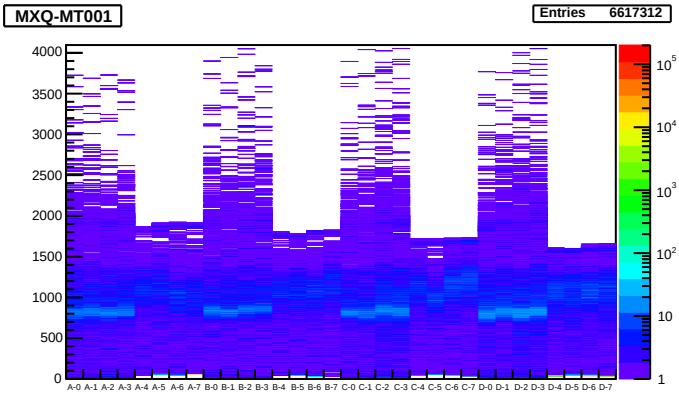

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 1654328
Fired(Real-Simu)
2
1.5
1
0.5
0
−0.5
−1
206791 206791 206791 206791 206791 206791 206791 206791
10^5
10^4
10^3
10^2
10
1
ET IT EOR WOR EU ED WU WD
Bit

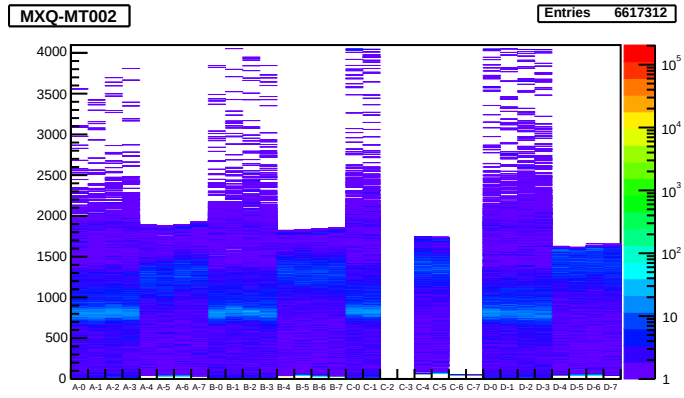

L2-TF201 Input chn 0 -- Number of Muons
Entries 206791
Number of Muons

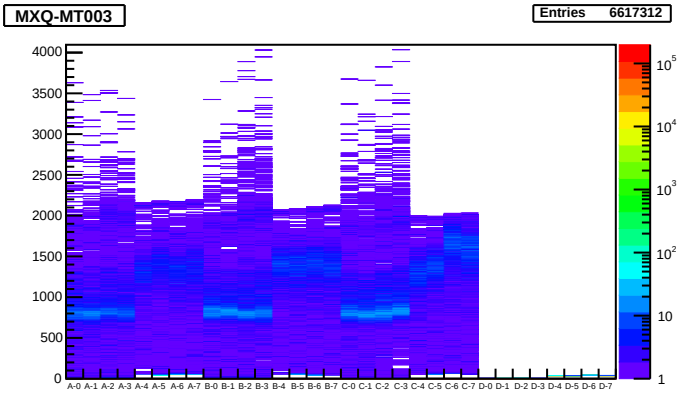

L2-TF201 Input chn 0 -- Number of Muons
Entries 66026
Number of Muons (Real-Simu)

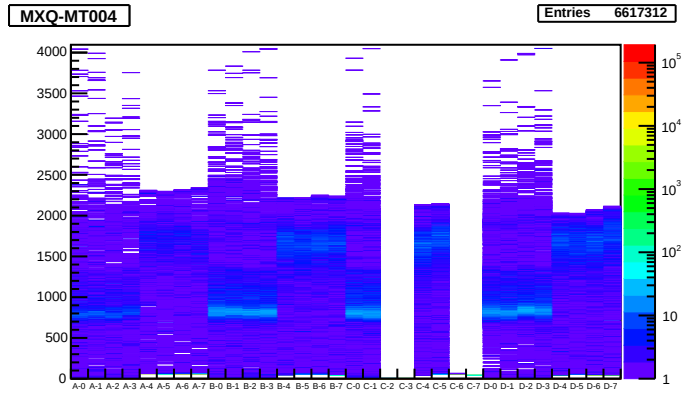

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 620373
66036
22439
20167
140755
184352
186624
Hit
Cosmic-Ray
Timed-Cosmic-Ray

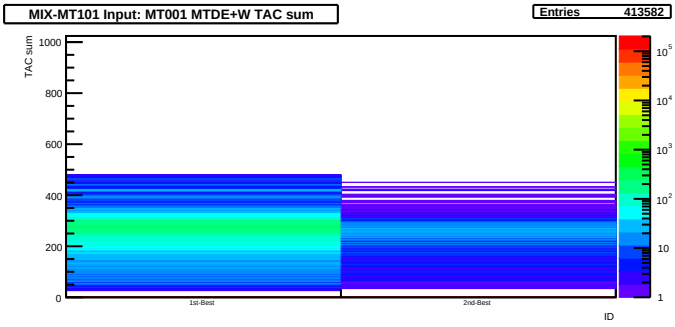

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 108642
66036
22439
20167
Hit
Cosmic-Ray
Timed-Cosmic-Ray

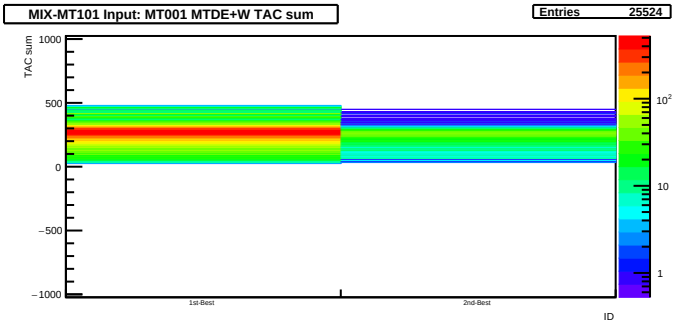

MXQ-MT001
Entries 6617312
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

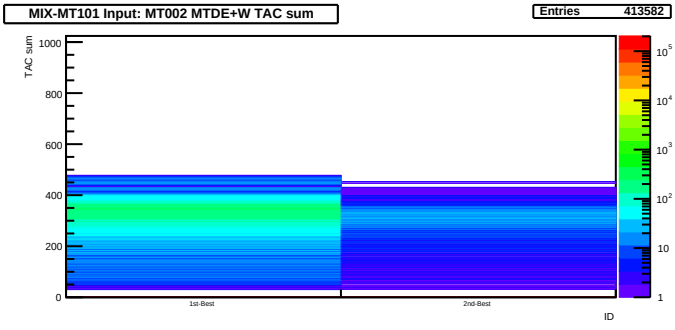

MXQ-MT002
Entries 6617312
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

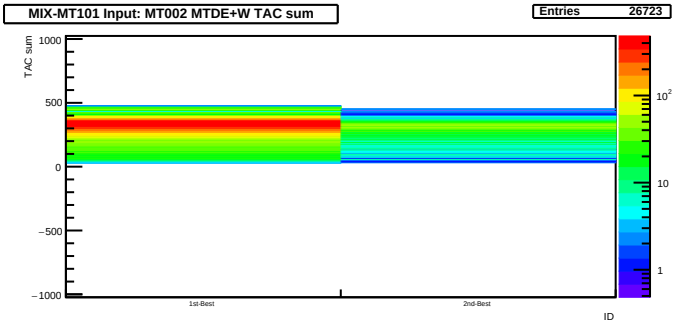

MXQ-MT003
Entries 6617312
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

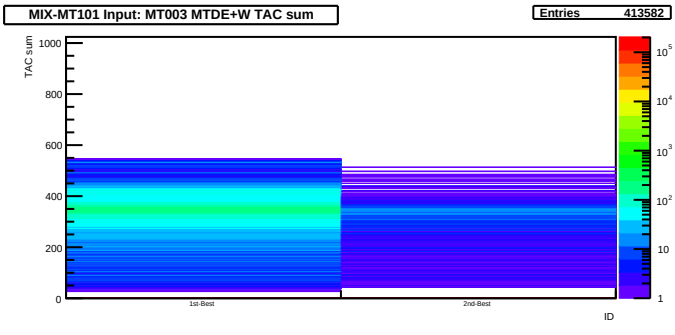

MXQ-MT004
Entries 6617312
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

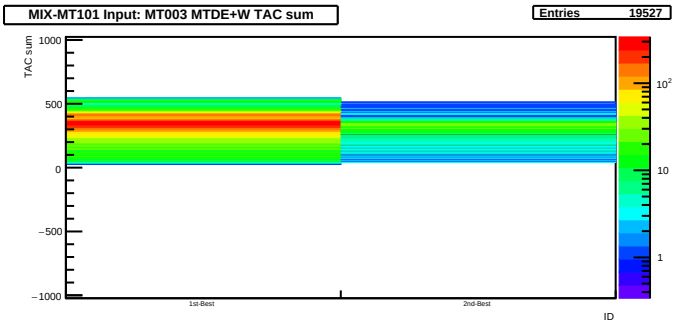

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 413582
TAC sum
1st-Best
2nd-Best
ID

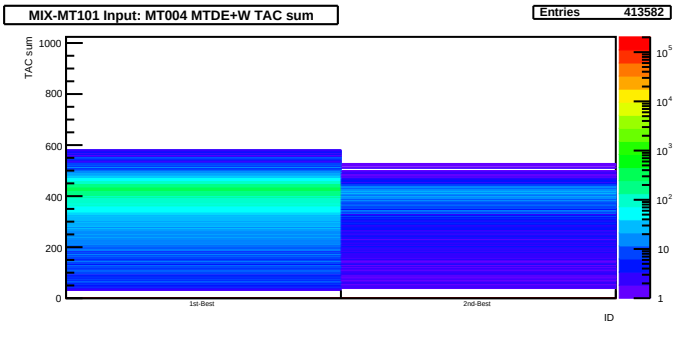

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 25524
TAC sum
1st-Best
2nd-Best
ID

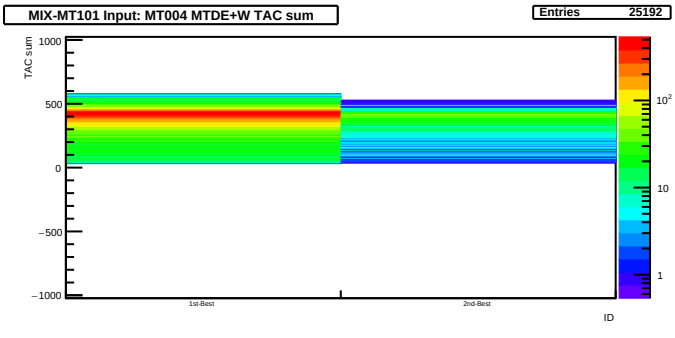

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 413582
TAC sum
1st-Best
2nd-Best
ID

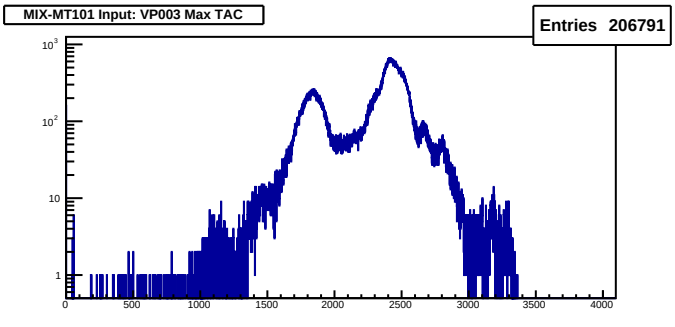

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 26723
TAC sum
1st-Best
2nd-Best
ID

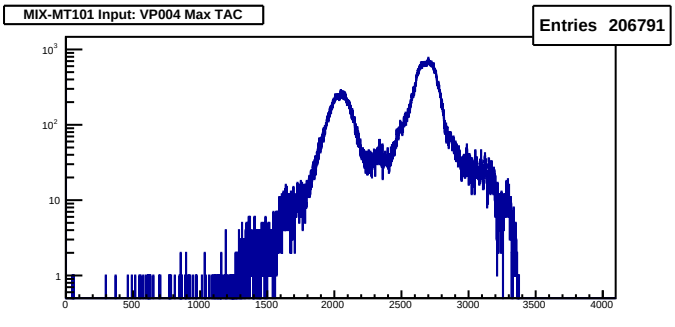

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 413582
TAC sum
1st-Best
2nd-Best
ID

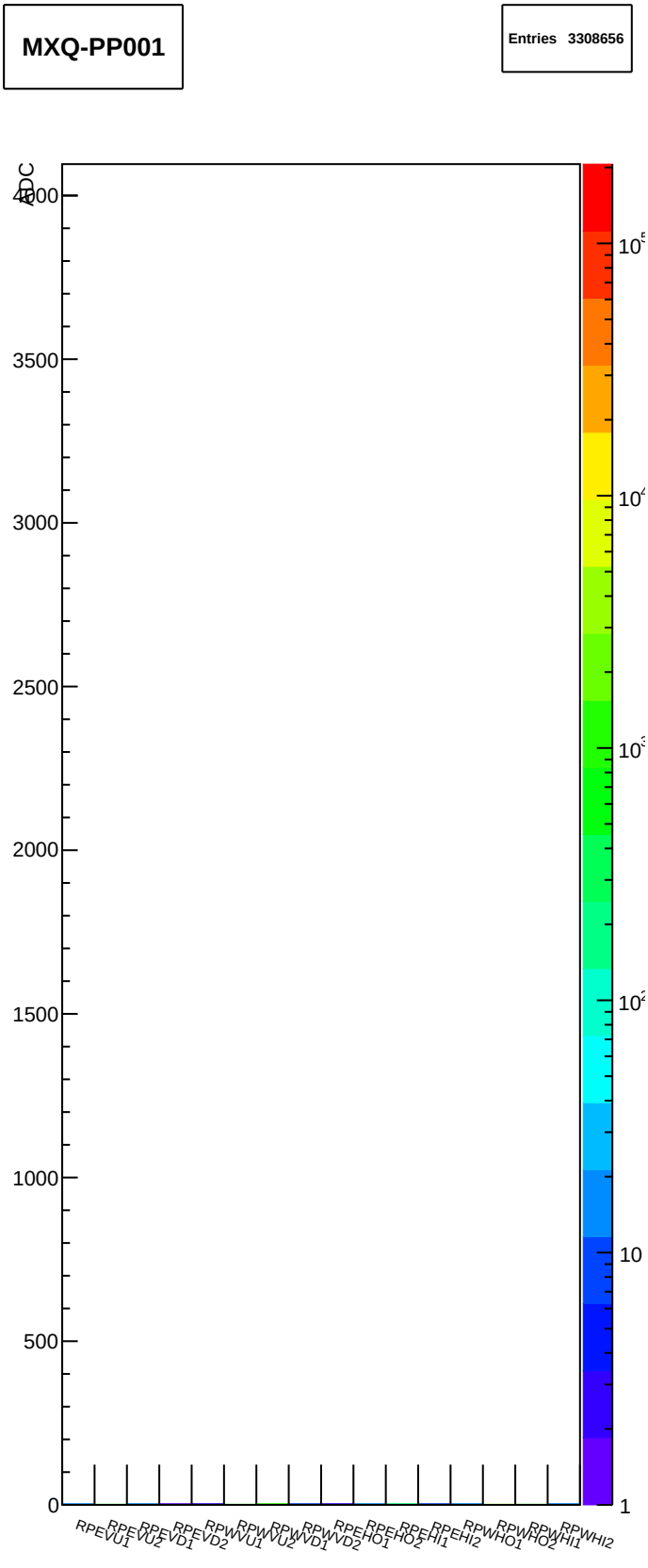

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 19527
TAC sum
1st-Best
2nd-Best
ID

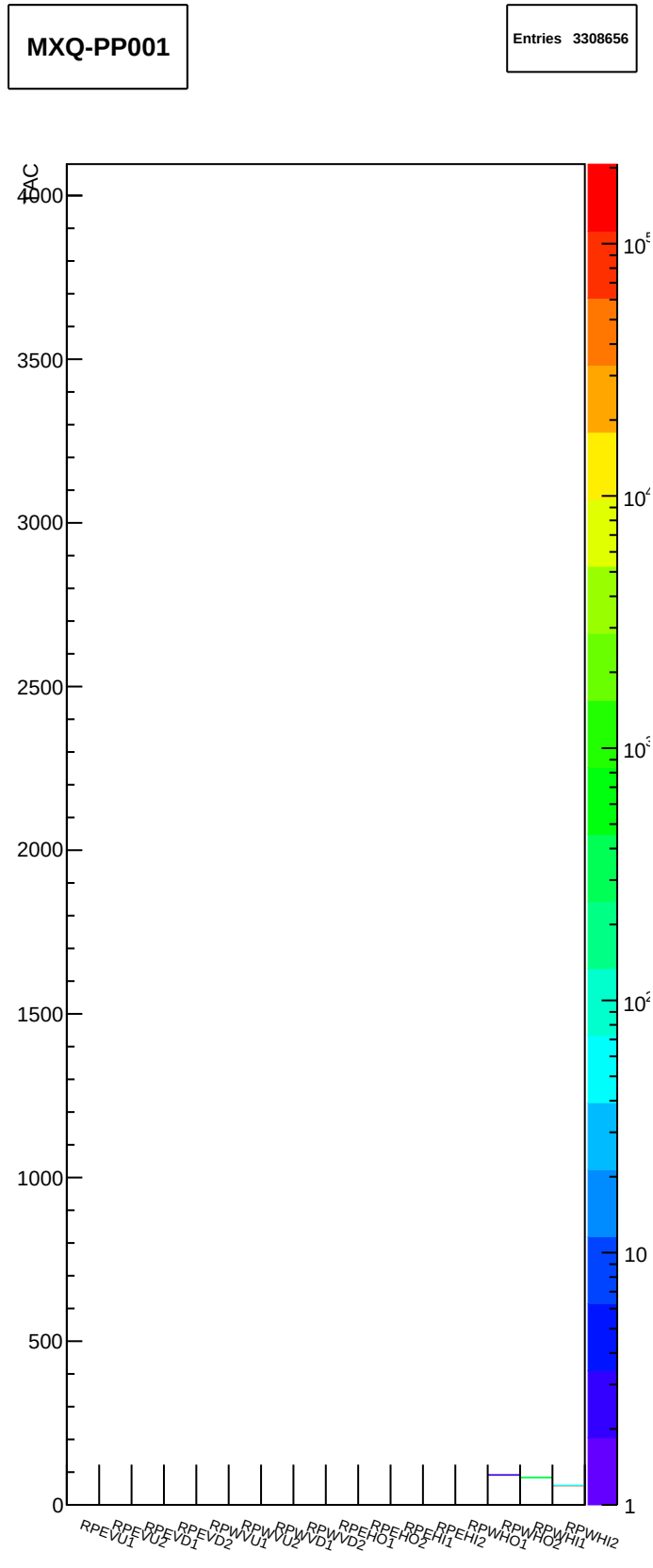

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 413582
TAC sum
1st-Best
2nd-Best
ID

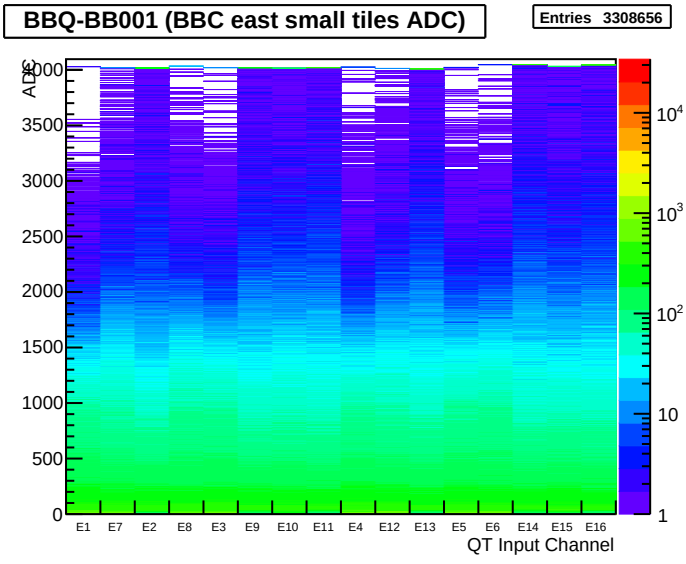

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 25192
TAC sum
1st-Best
2nd-Best
ID

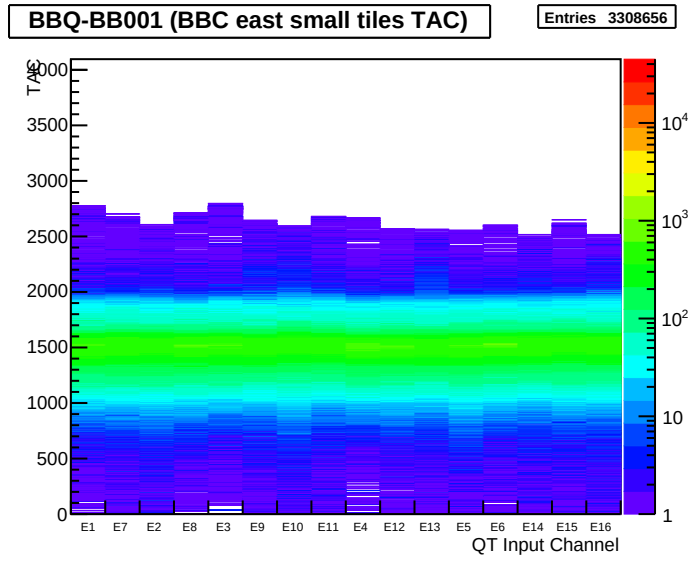

MIX-MT101 Input: VP003 Max TAC
Entries 206791

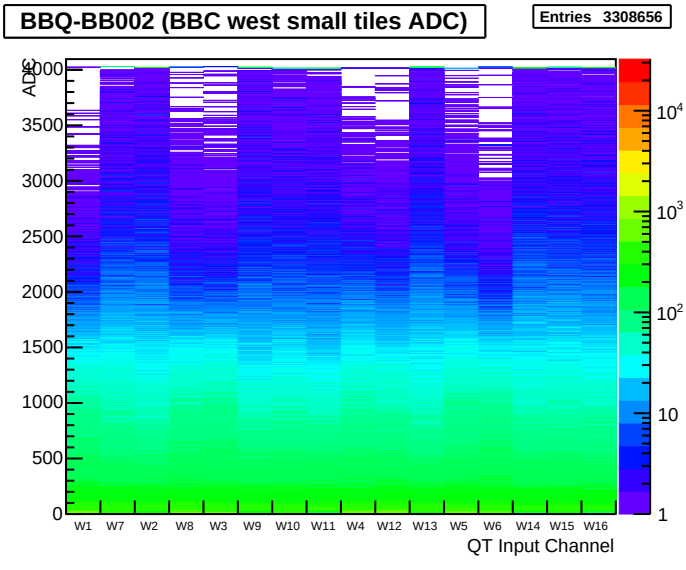

MIX-MT101 Input: VP004 Max TAC
Entries 206791

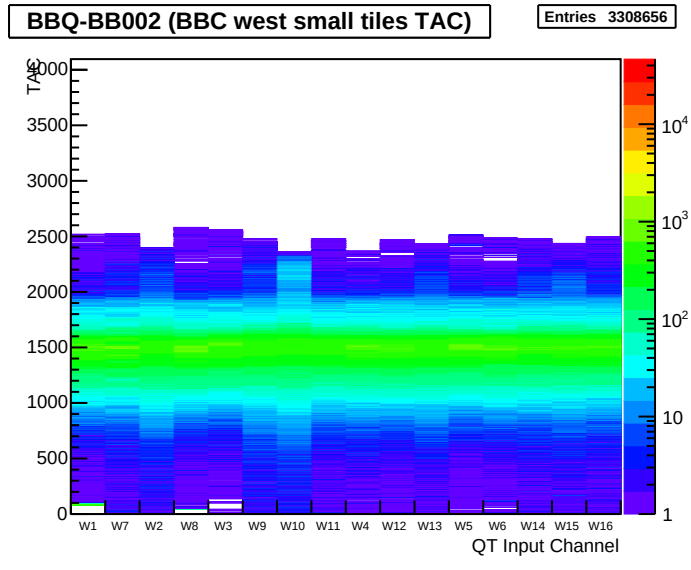

MXQ-PP001
Entries 3308656
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

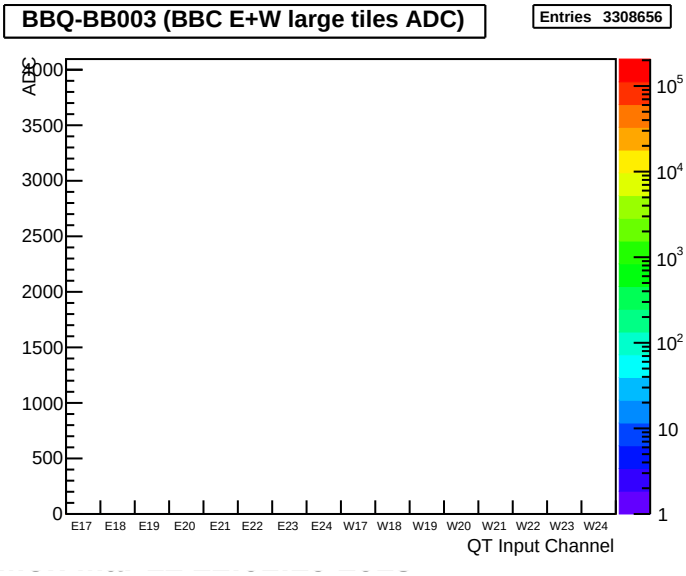

MXQ-PP001
Entries 3308656
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10
1

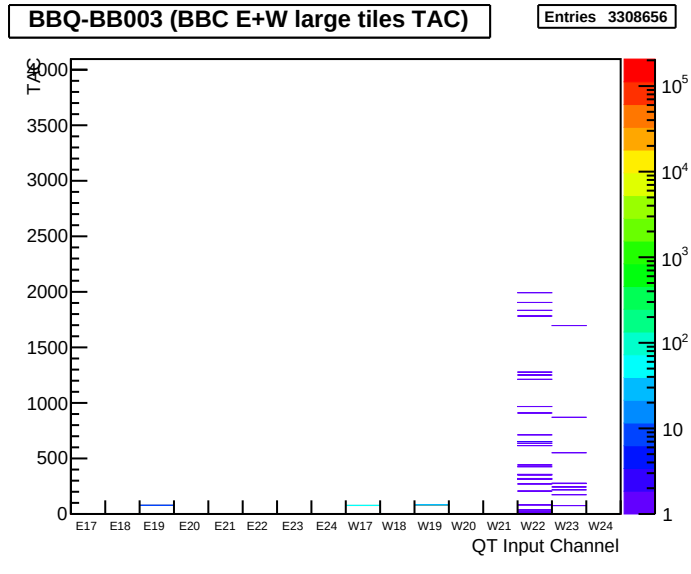

BBQ-BB001 (BBC east small tiles ADC)
Entries 3308656
ADC
QT Input Channel

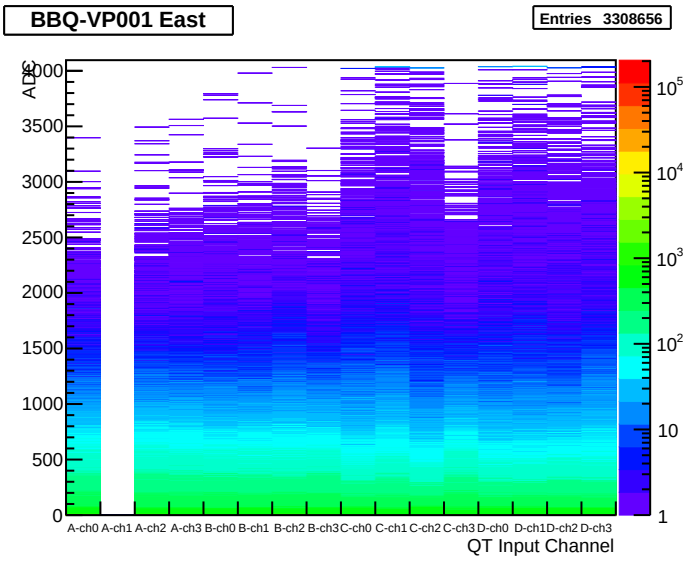

BBQ-BB001 (BBC east small tiles TAC)
Entries 3308656
TAC
QT Input Channel

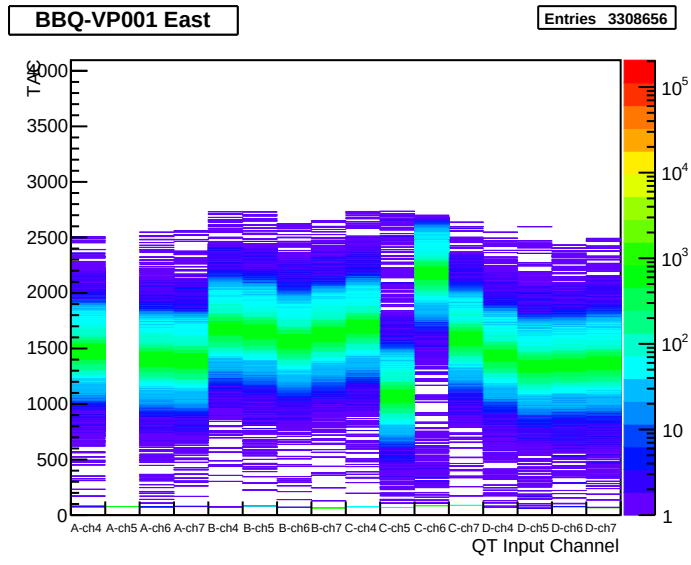

BBQ-BB002 (BBC west small tiles ADC)
Entries 3308656
ADC
QT Input Channel

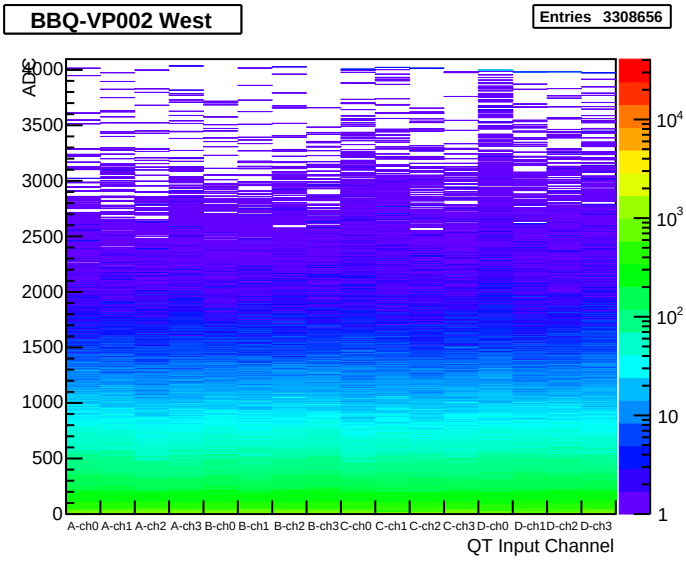

BBQ-BB002 (BBC west small tiles TAC)
Entries 3308656
TAC
QT Input Channel

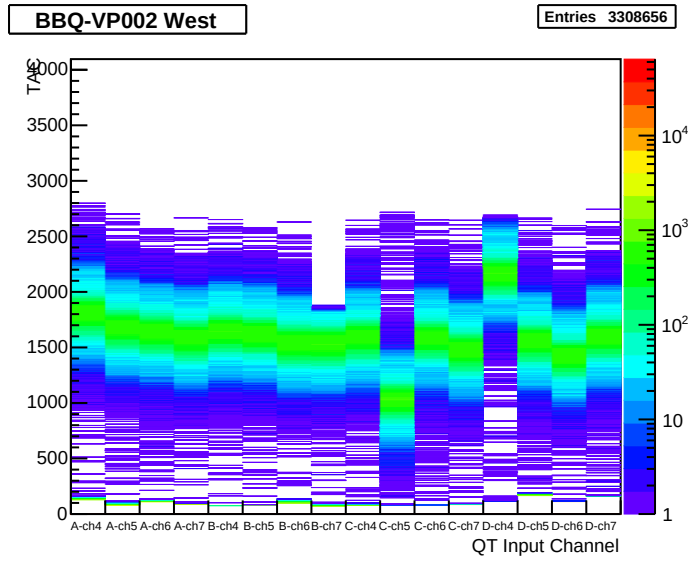

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3308656
ADC
QT Input Channel

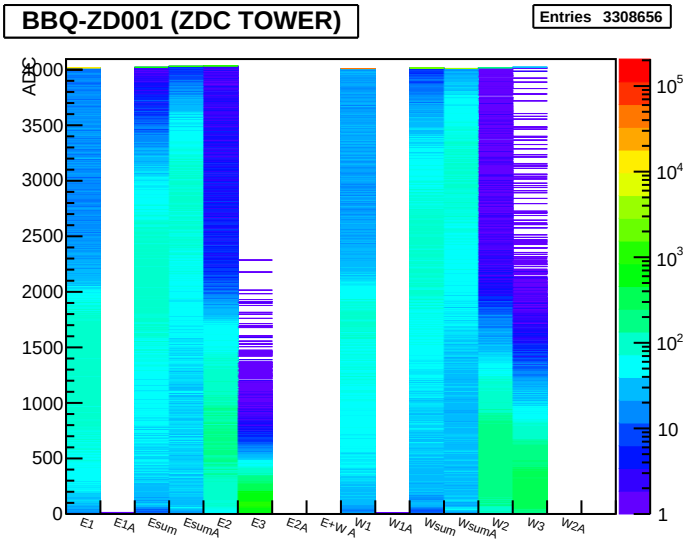

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3308656
TAC
QT Input Channel

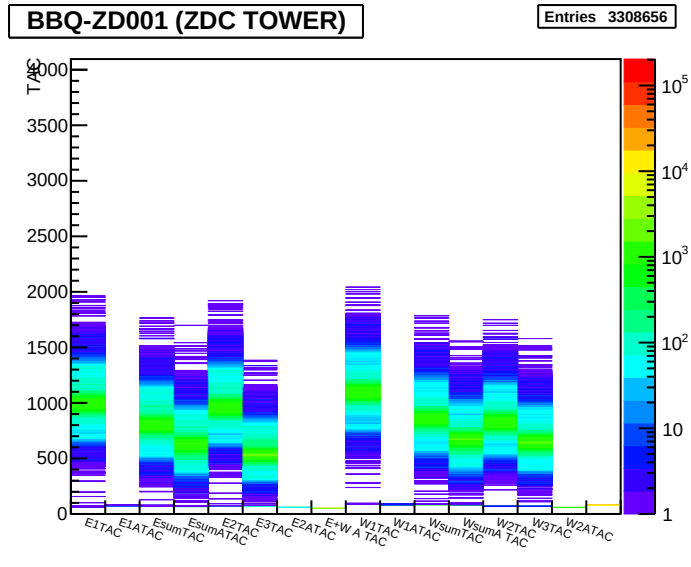

BBQ-VP001 East
Entries 3308656
ADC
QT Input Channel

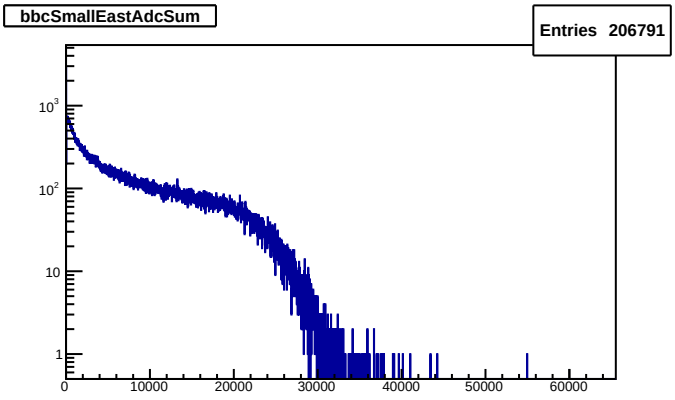

BBQ-VP001 East
Entries 3308656
TAC
QT Input Channel

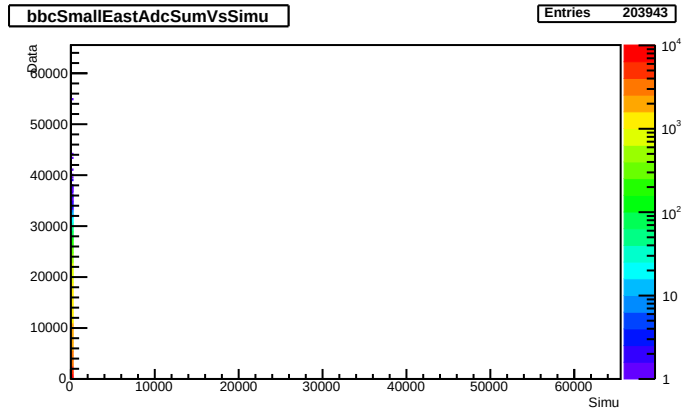

BBQ-VP002 West
Entries 3308656
ADC
QT Input Channel

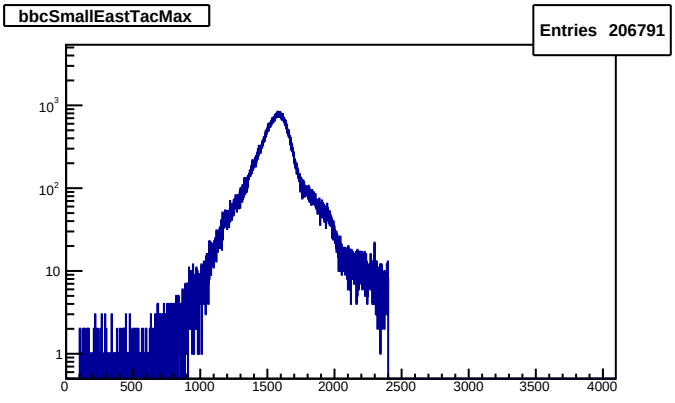

BBQ-VP002 West
Entries 3308656
TAC
QT Input Channel

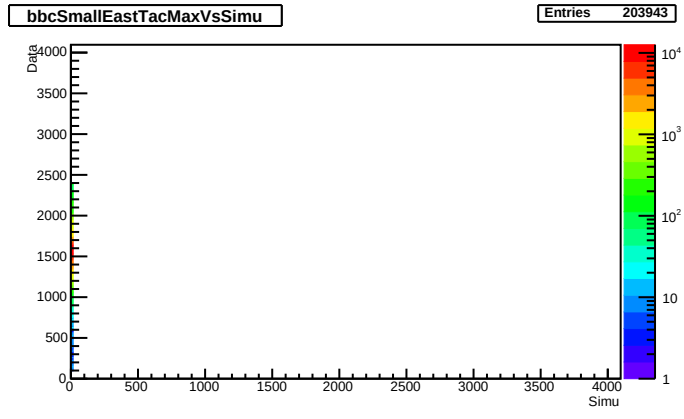

BBQ-ZD001 (ZDC TOWER)
Entries 3308656
ADC

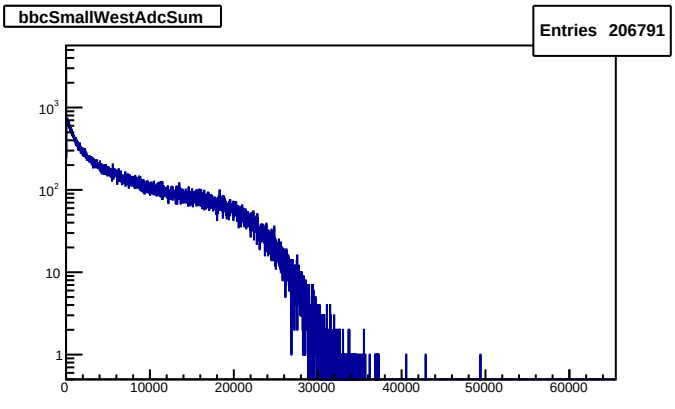

BBQ-ZD001 (ZDC TOWER)
Entries 3308656
TAC

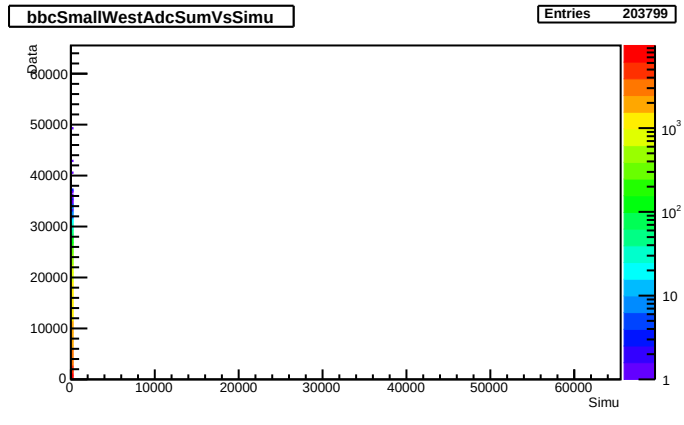

bbcSmallEastAdcSum
Entries 206791

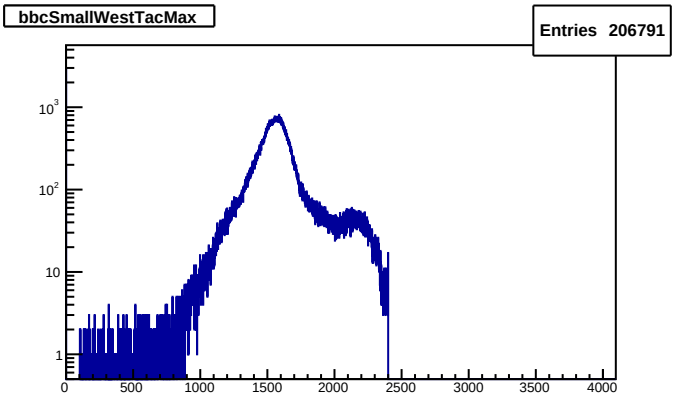

bbcSmallEastAdcSumVsSimu
Entries 203943
Data
Simu

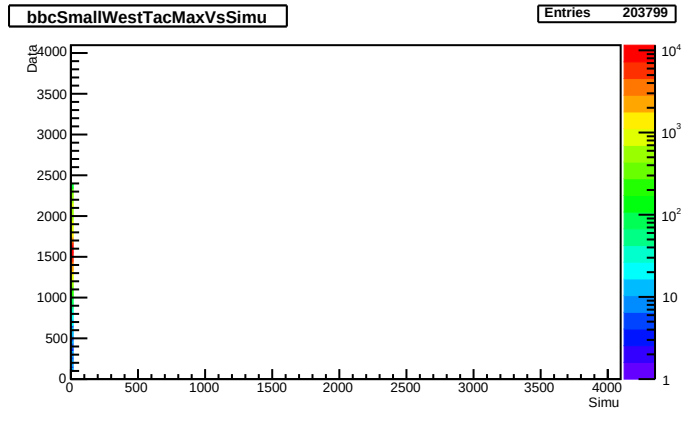

bbcSmallEastTacMax
Entries 206791

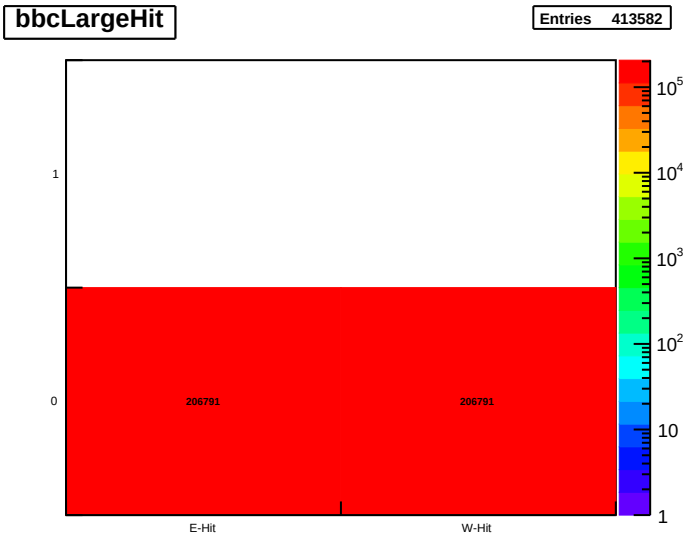

bbcSmallEastTacMaxVsSimu
Entries 203943
Data
Simu

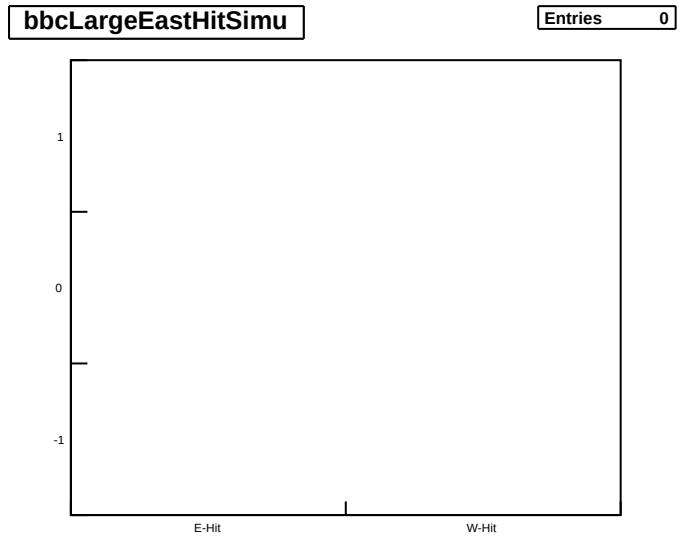

bbcSmallWestAdcSum
Entries 206791

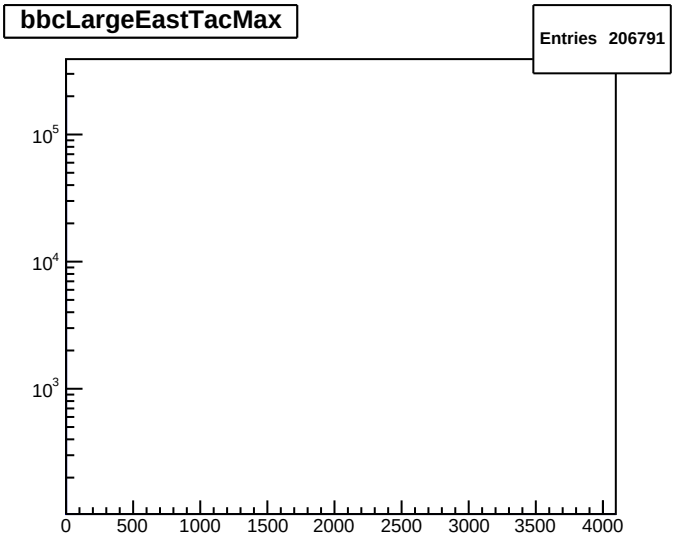

bbcSmallWestAdcSumVsSimu
Entries 203799
Data
Simu

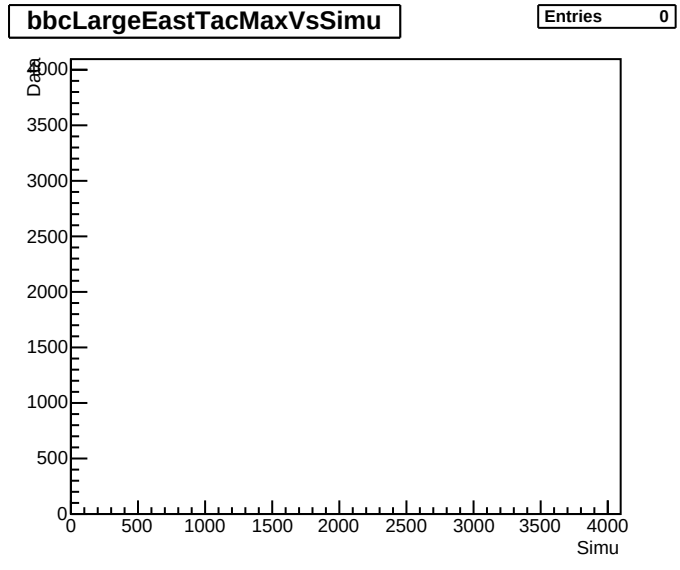

bbcSmallWestTacMax
Entries 206791

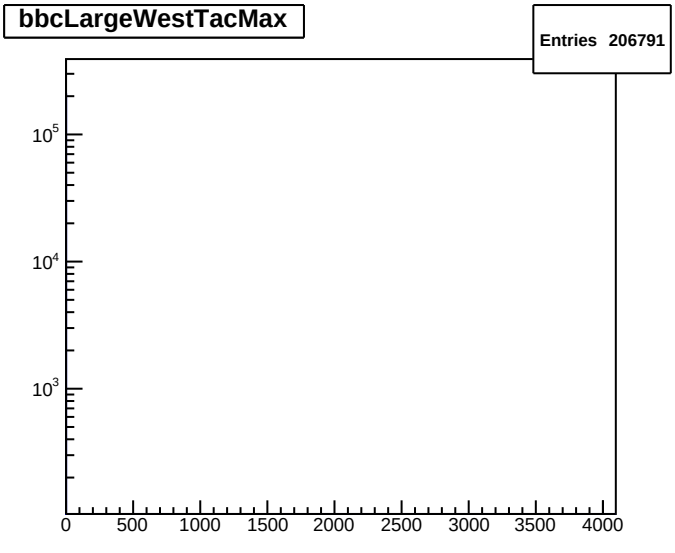

bbcSmallWestTacMaxVsSimu
Entries 203799
Data
Simu

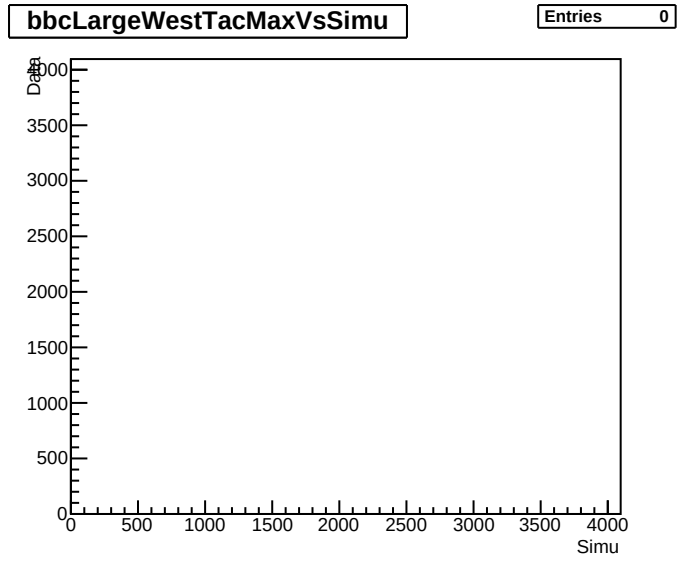

bbcLargeHit
Entries 413582
206791
206791
E-Hit
W-Hit

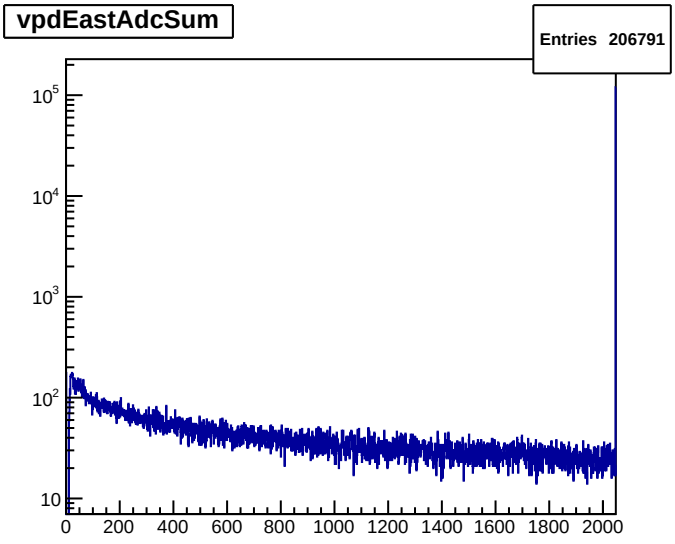

bbcLargeEastHitSimu
Entries 0
E-Hit
W-Hit

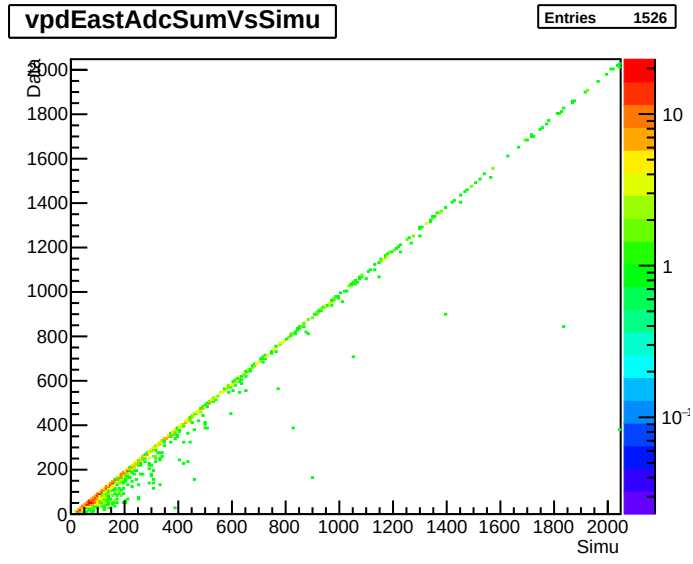

bbcLargeEastTacMax
Entries 206791

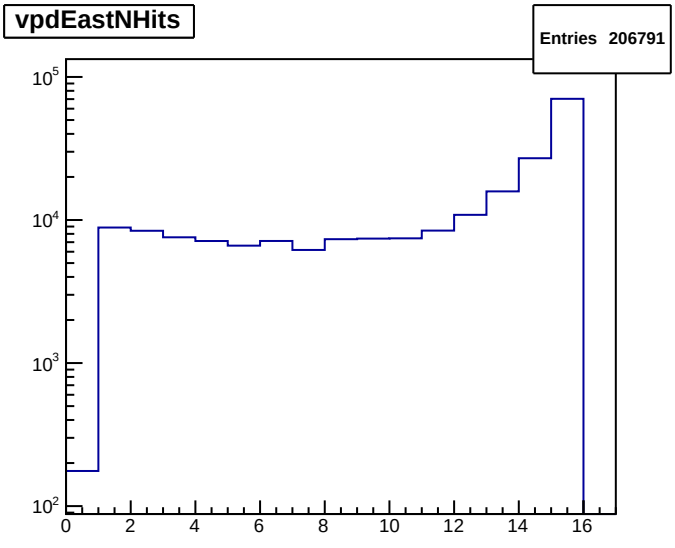

bbcLargeEastTacMaxVsSimu
Entries 0
Data
Simu

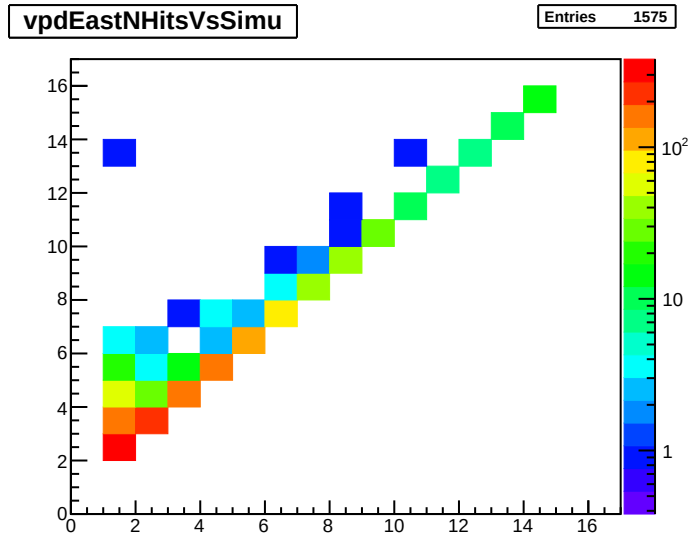

bbcLargeWestTacMax
Entries 206791

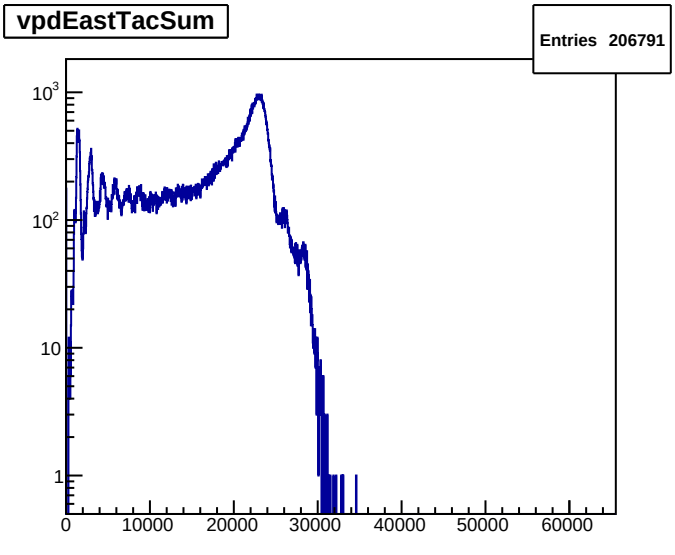

bbcLargeWestTacMaxVsSimu
Entries 0
Data
Simu

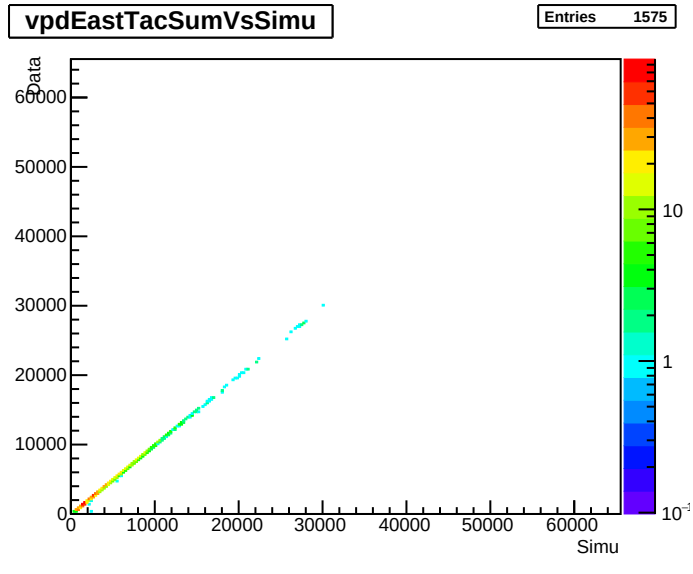

vpdEastAdcSum
Entries 206791

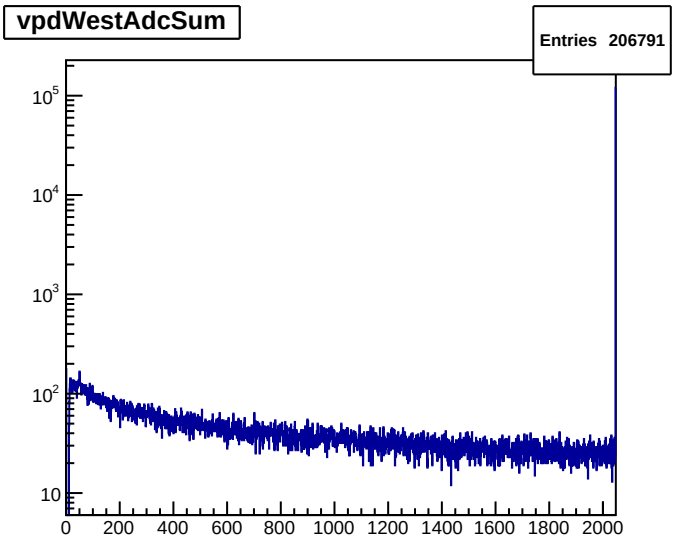

vpdEastAdcSumVsSimu
Entries 1526
Data
Simu

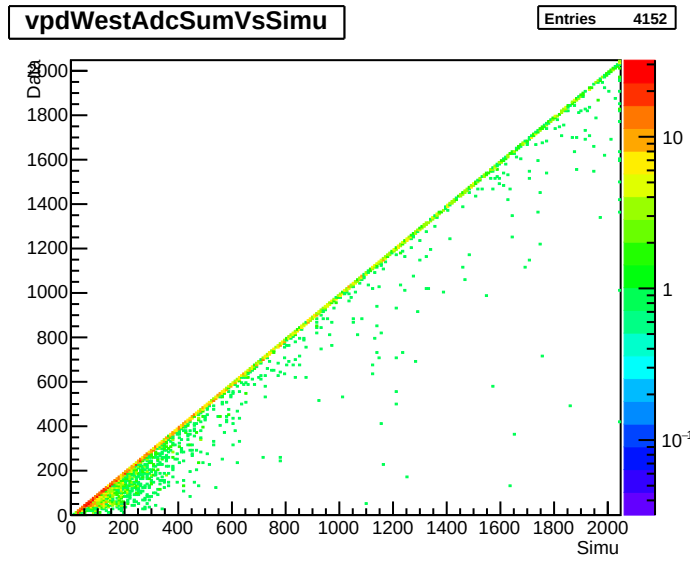

vpdEastNHits
Entries 206791

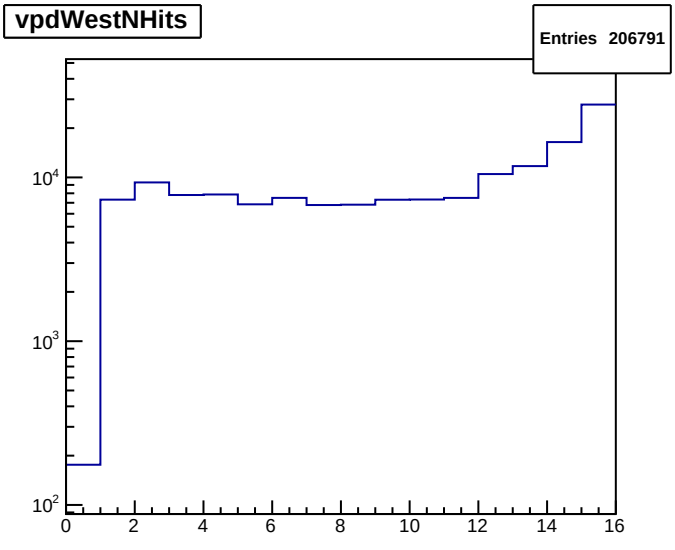

vpdEastNHitsVsSimu
Entries 1575

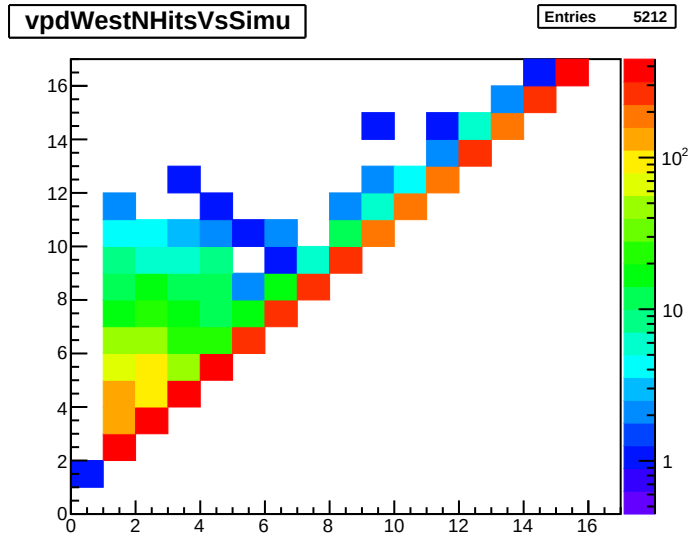

vpdEastTacSum
Entries 206791

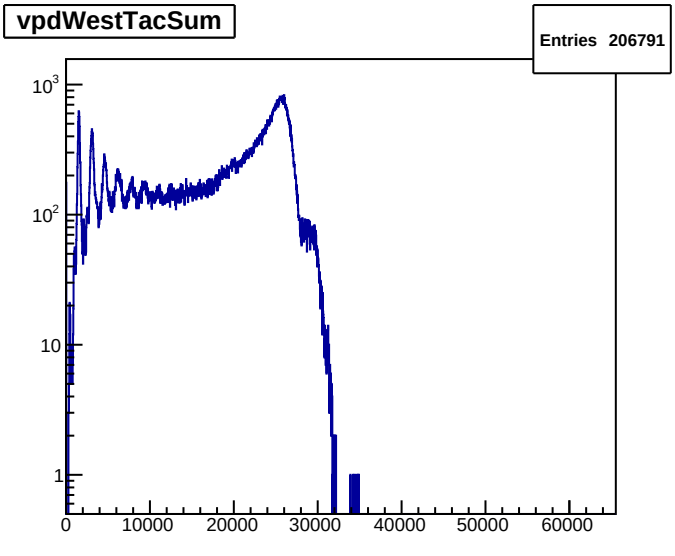

vpdEastTacSumVsSimu
Entries 1575
Data
Simu

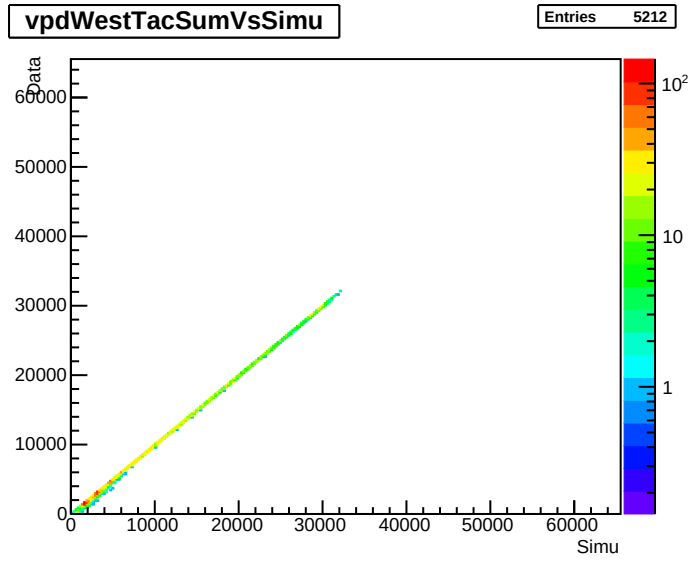

vpdWestAdcSum
Entries 206791

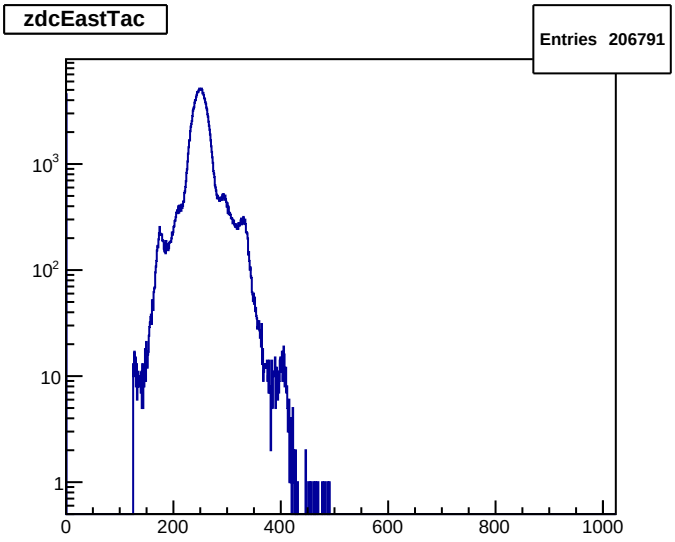

vpdWestAdcSumVsSimu
Entries 4152
Data
Simu

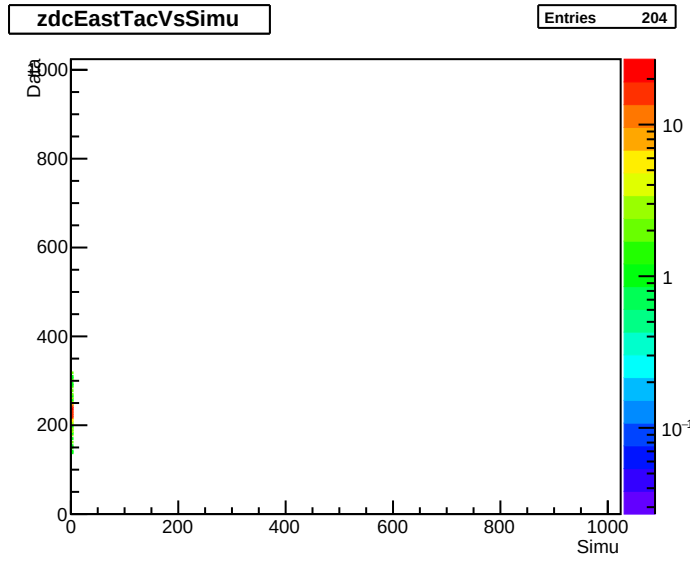

vpdWestNHits
Entries 206791

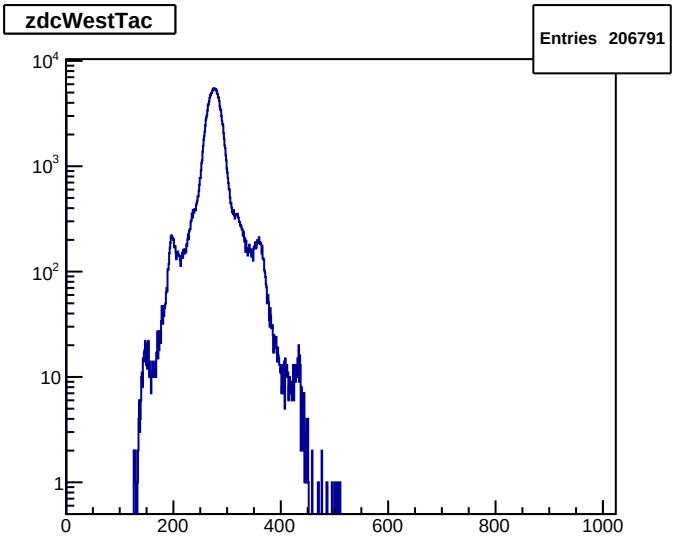

vpdWestNHitsVsSimu
Entries 5212

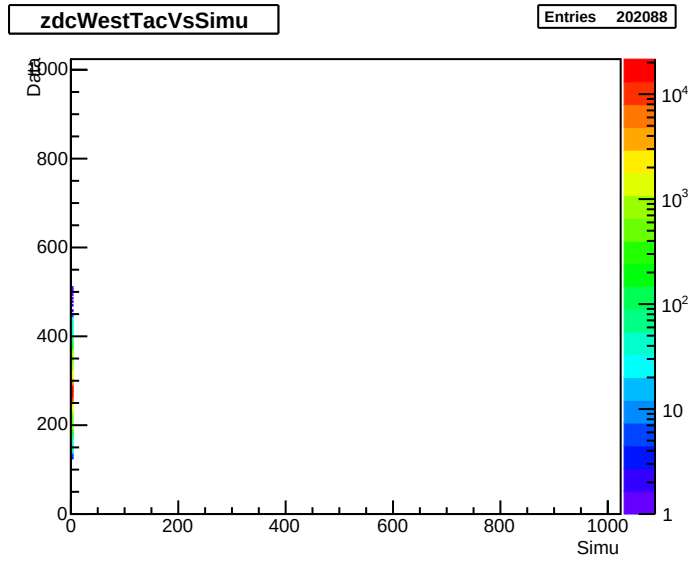

vpdWestTacSum
Entries 206791

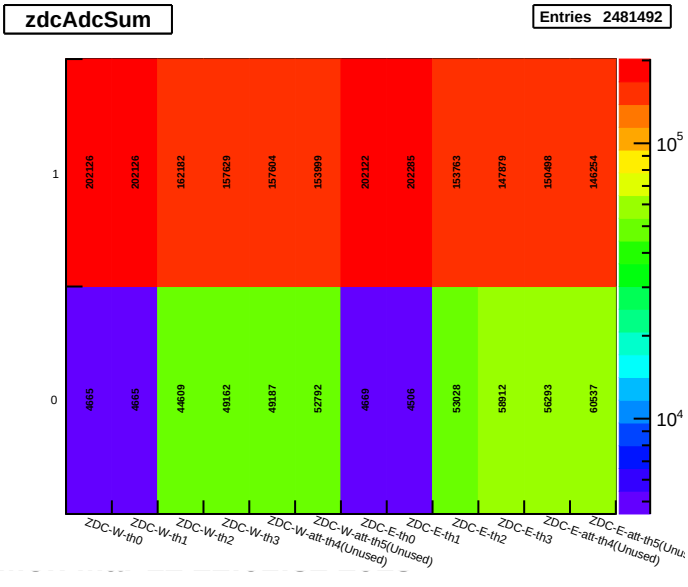

vpdWestTacSumVsSimu
Entries 5212
Data
Simu

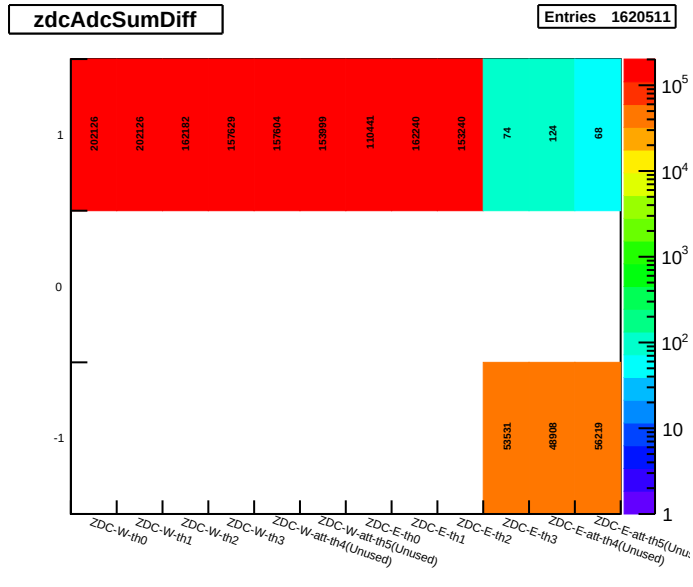

zdcEastTac
Entries 206791

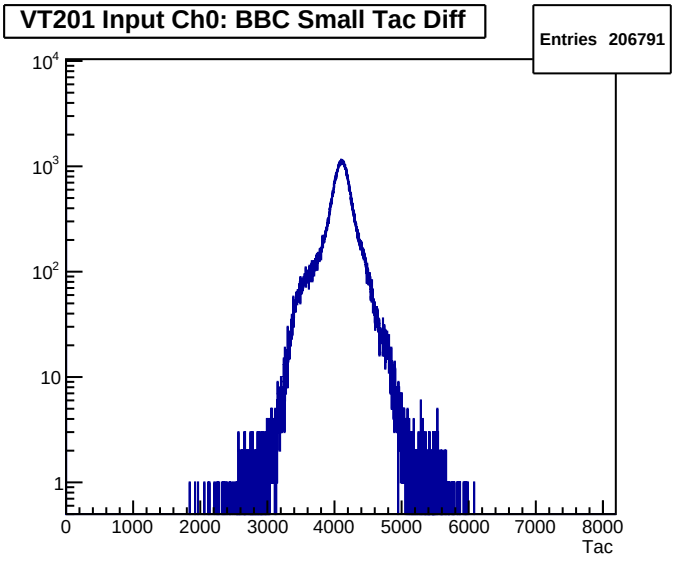

zdcEastTacVsSimu
Entries 204
Data
Simu

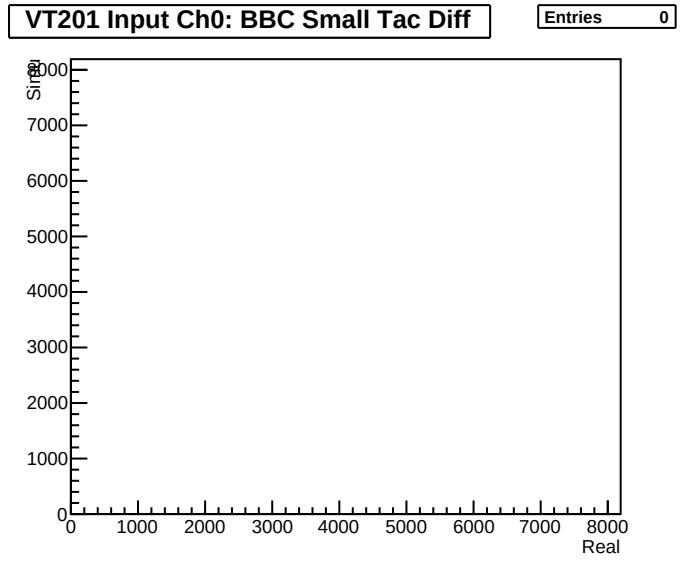

zdcWestTac
Entries 206791

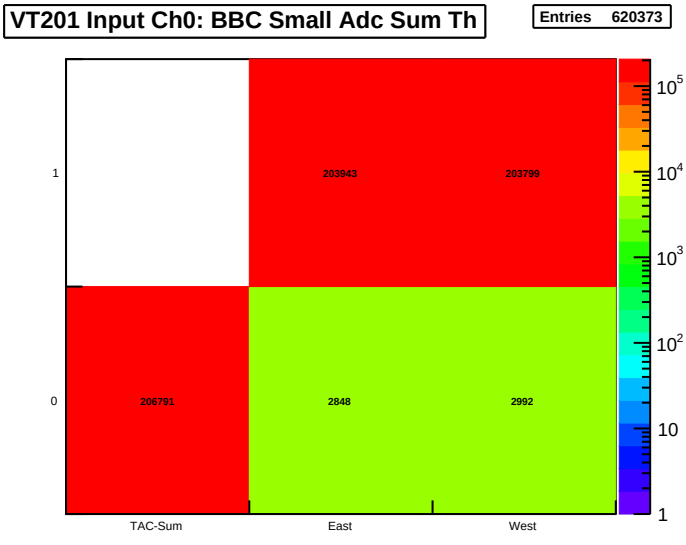

zdcWestTacVsSimu
Entries 202088
Data
Simu

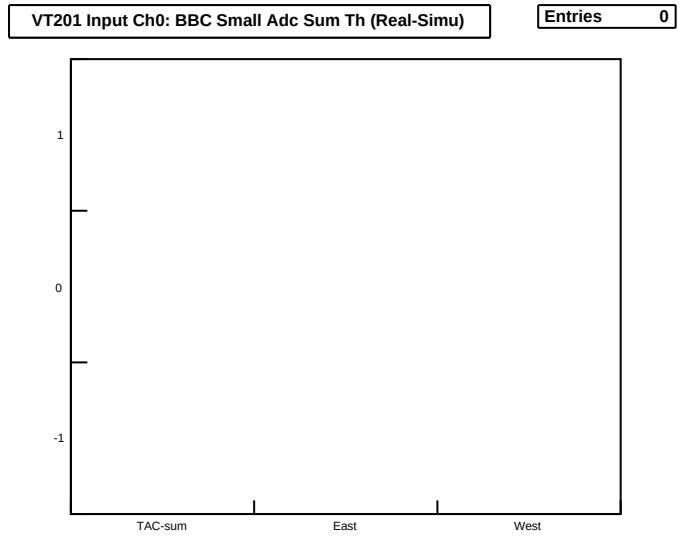

zdcAdcSum
Entries 2481492
202126
202126
162182
157629
157604
153999
202122
202285
153763
147879
150498
146254
4665
4665
44609
49162
49187
52792
4669
4506
53028
58912
56293
60537
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

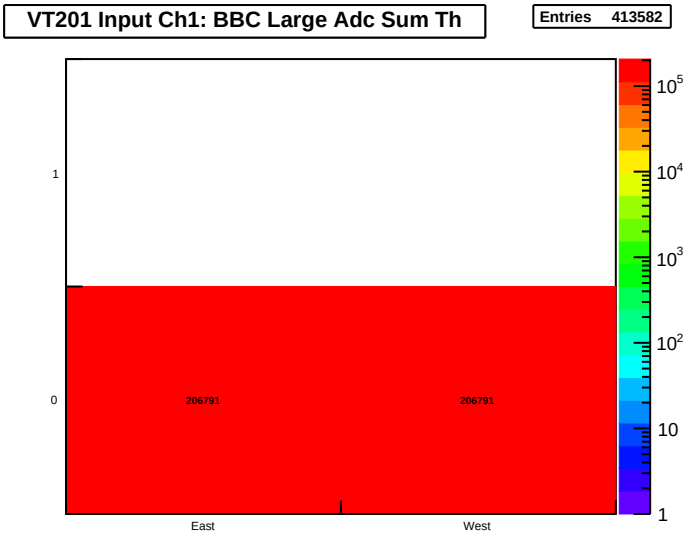

zdcAdcSumDiff
Entries 1620511
202126
202126
162182
157629
157604
153999
110441
162240
153240
74
124
68
53531
48908
56219
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)
ZDC-E-att-th5(Unu

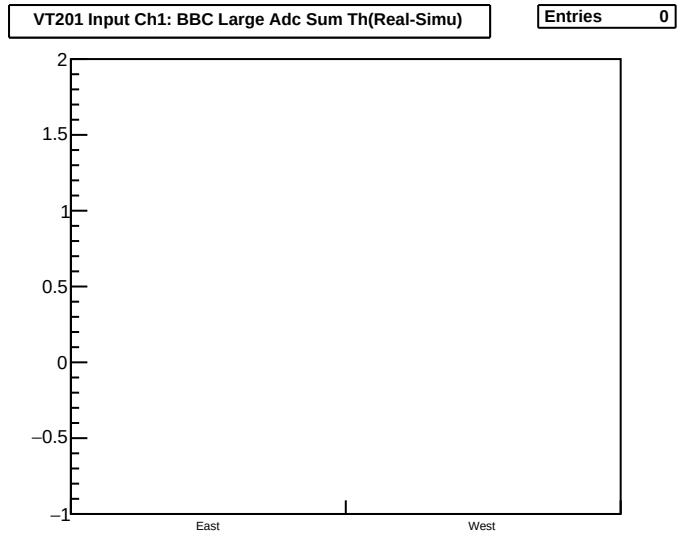

VT201 Input Ch0: BBC Small Tac Diff
Entries 206791
Tac


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

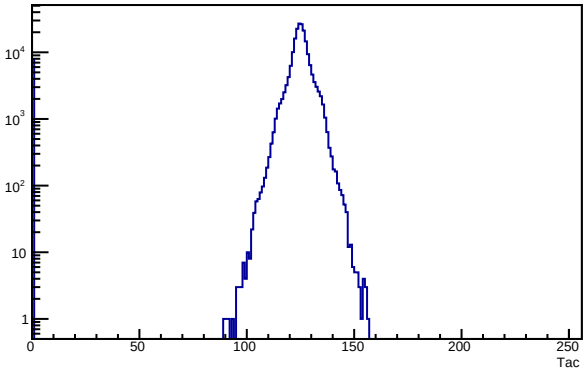

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 620373
203943
203799
206791
2848
2992
TAC-Sum
East
West


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

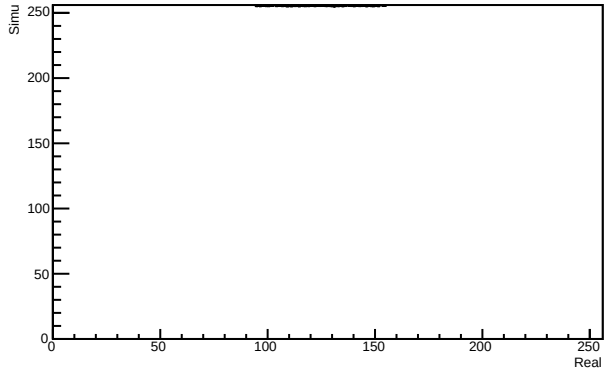

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 413582
206791
206791
East
West


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

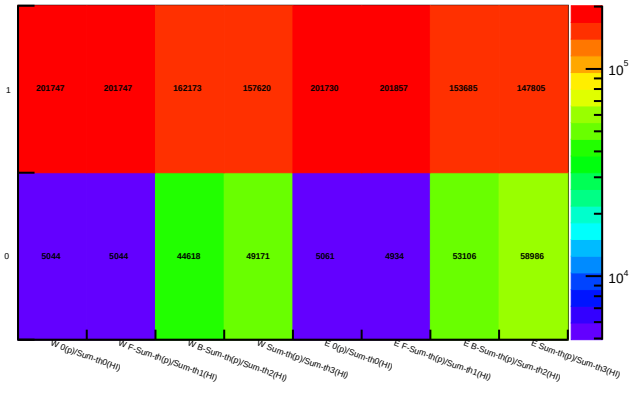
VT201 Input Ch2: ZDC Tac Diff



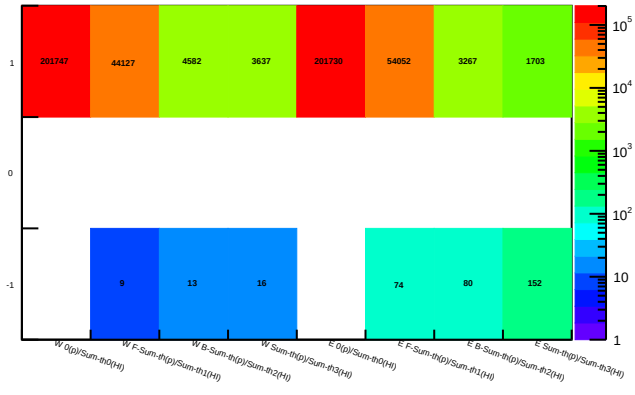
VT201 Input Ch2: ZDC Tac Diff



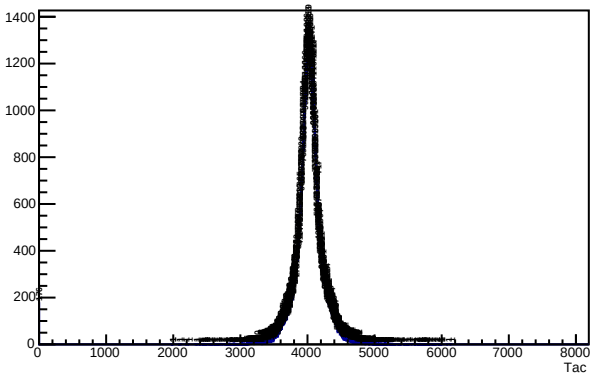
VT201 Input Ch2: ZDC Adc Sum Th



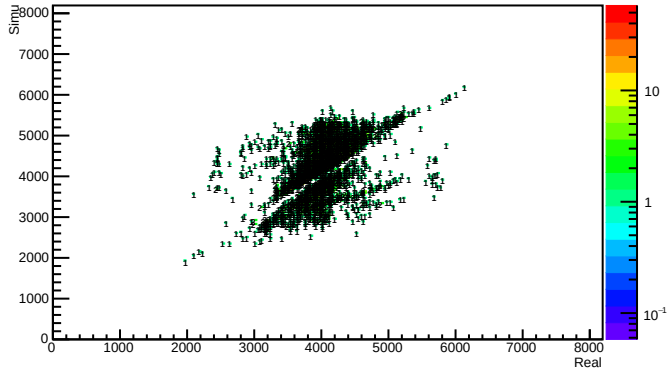
VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)



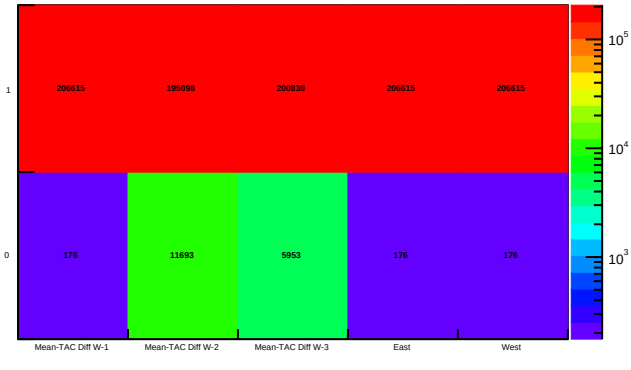
VT201 Input Ch4: VPD Tac Diff



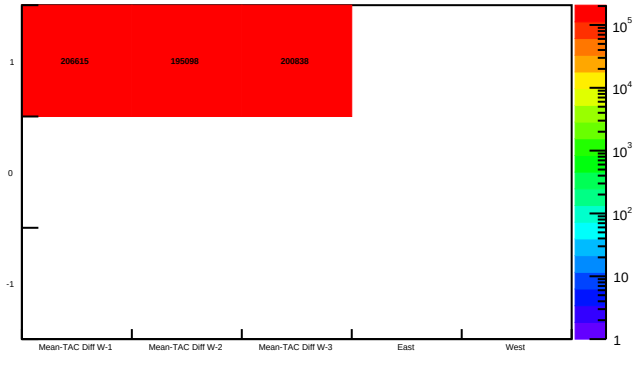
VT201 Input Ch4: VPD Tac Diff

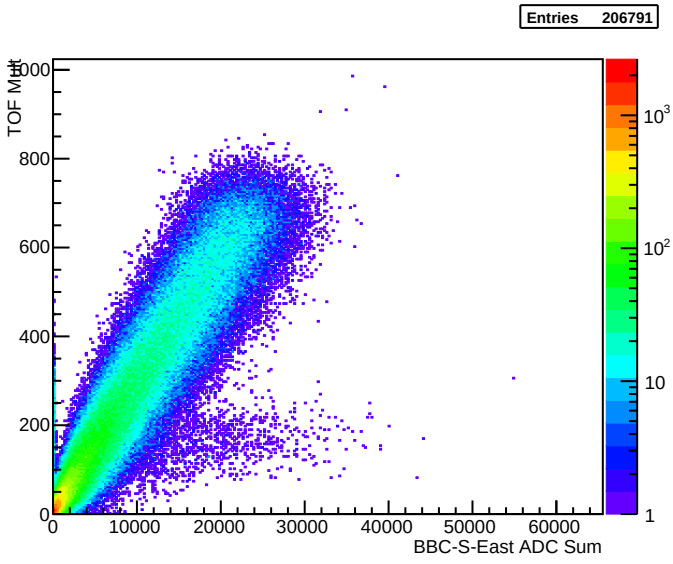


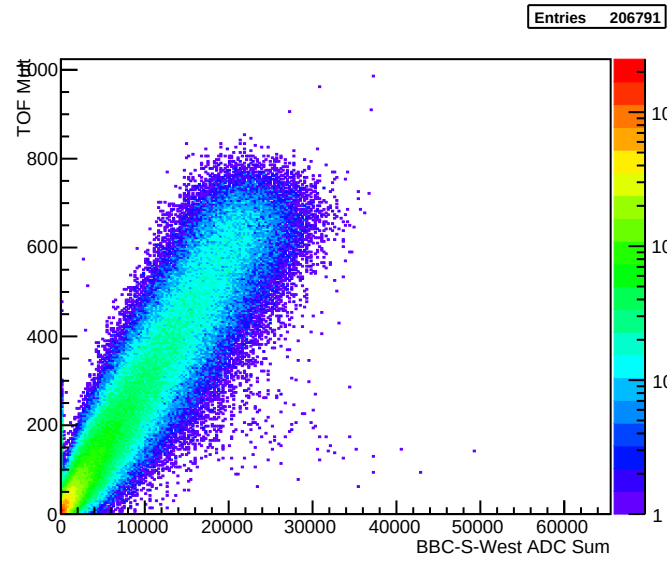
VT201 Input Ch4: VPD Adc Sum Th

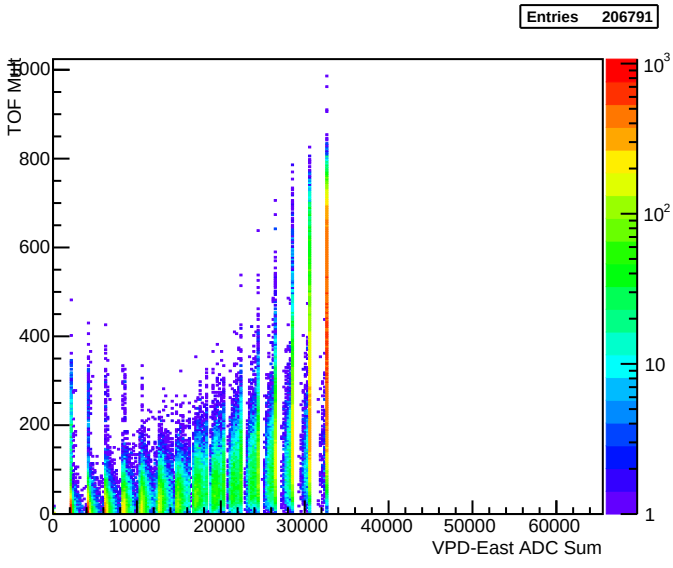


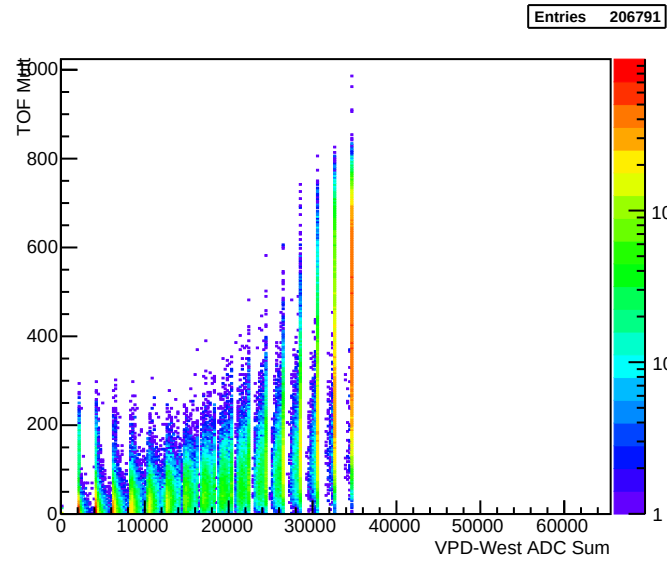
VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)

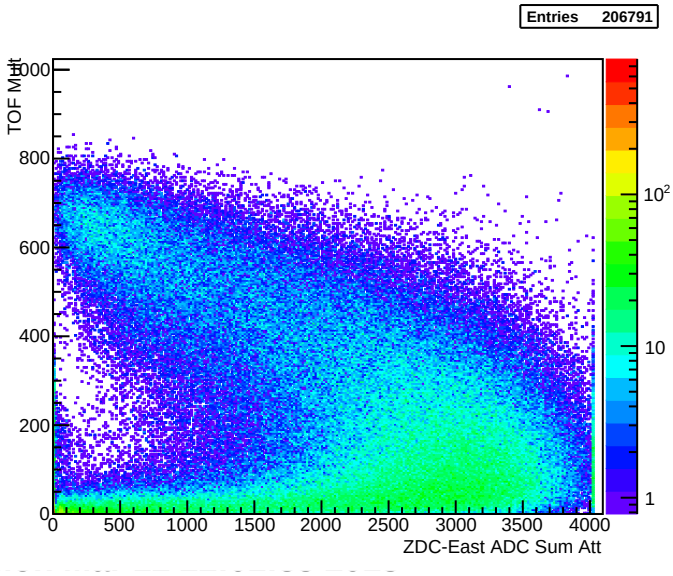


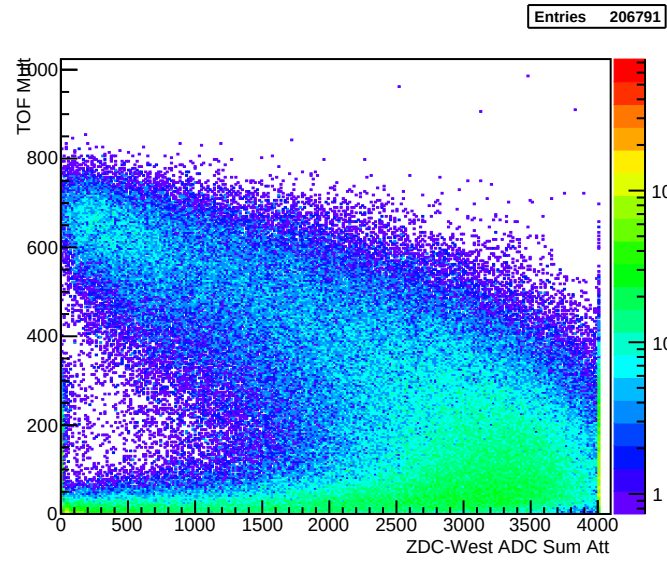

Entries 206791
TOF Mult
BBC-S-East ADC Sum

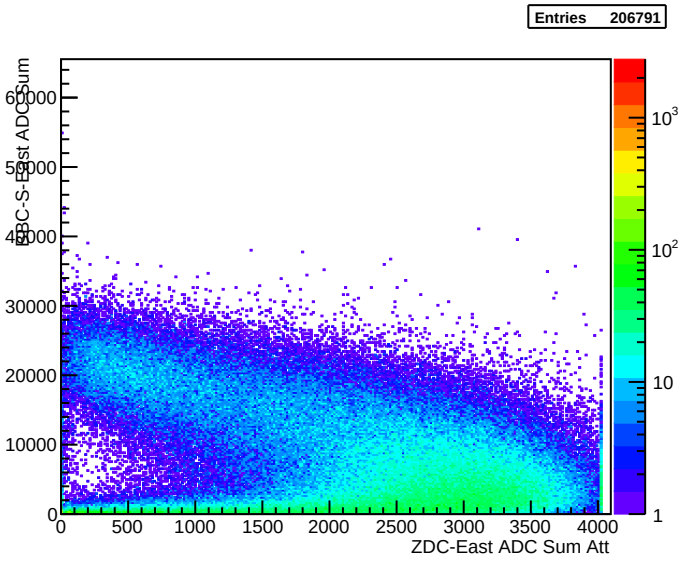

Entries 206791
TOF Mult
BBC-S-West ADC Sum

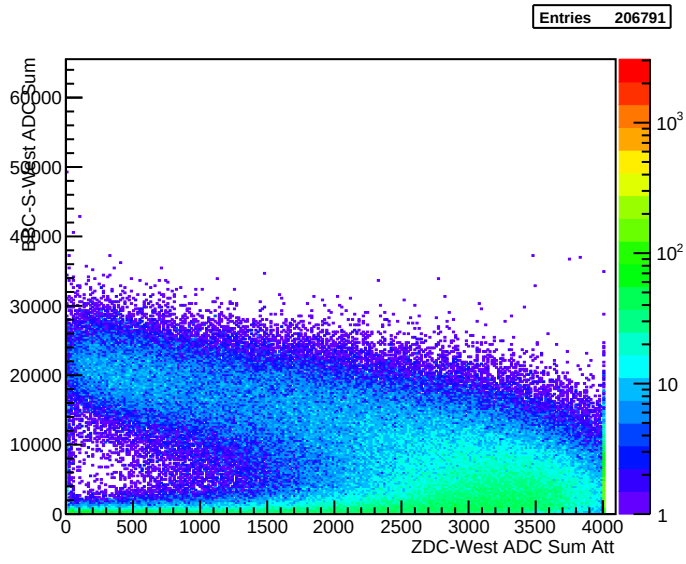

Entries 206791
TOF Mult
VPD-East ADC Sum

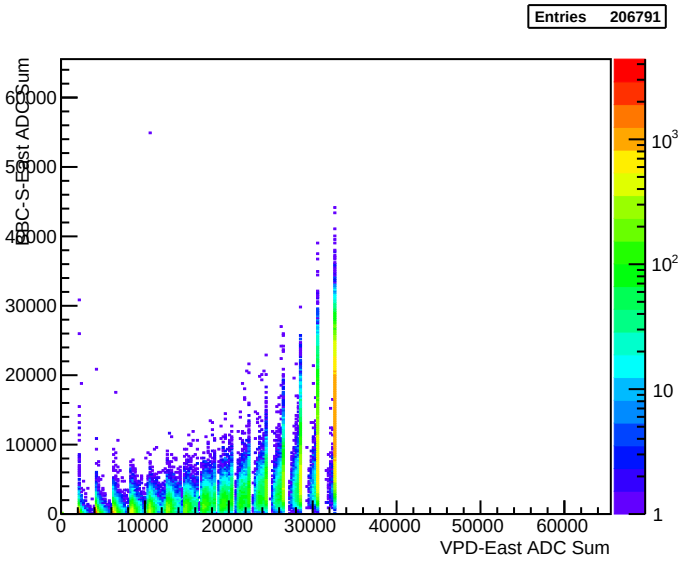

Entries 206791
TOF Mult
VPD-West ADC Sum

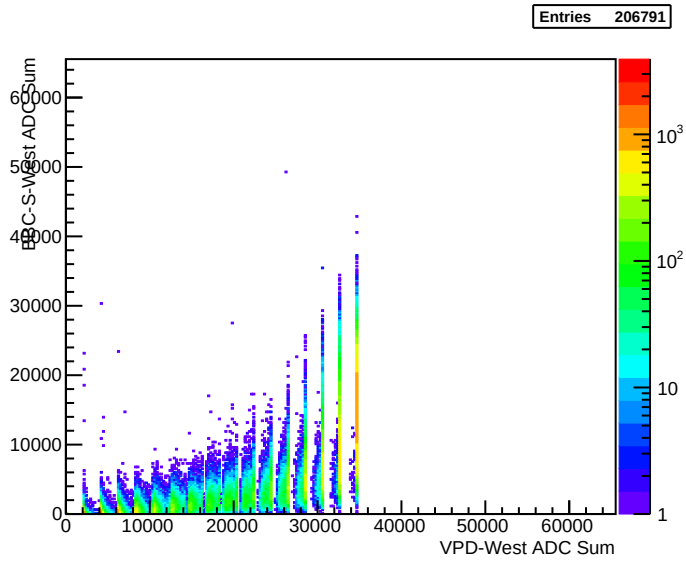

Entries 206791
TOF Mult
ZDC-East ADC Sum Att

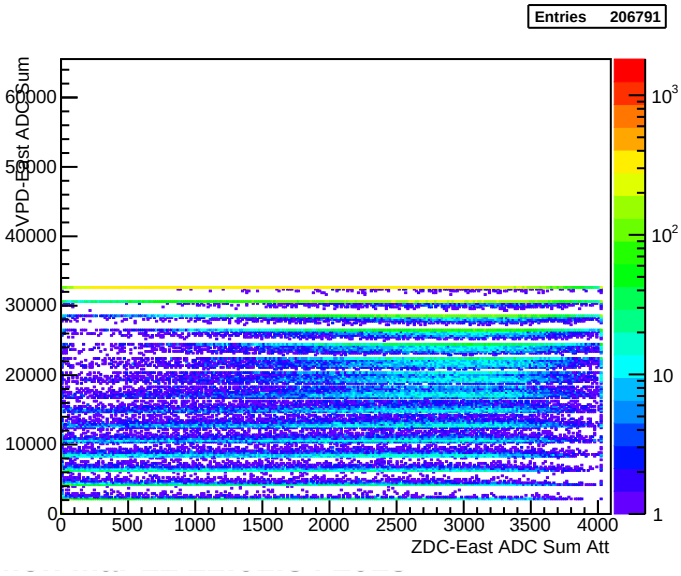

Entries 206791
TOF Mult
ZDC-West ADC Sum Att

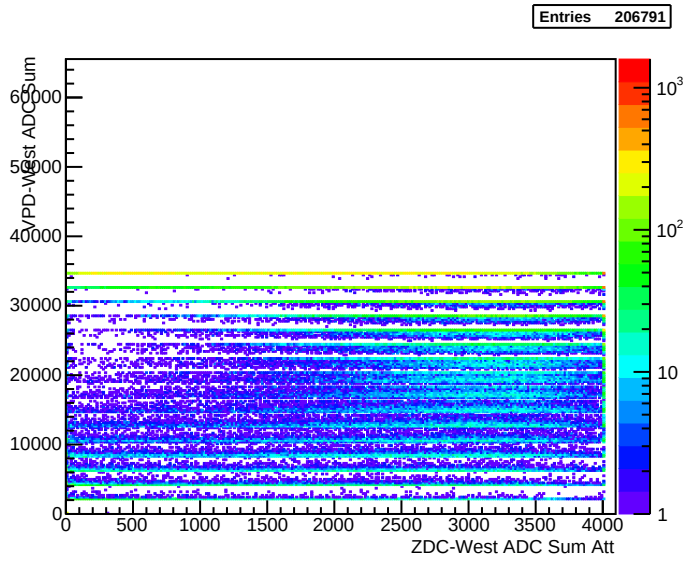

Entries 206791
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

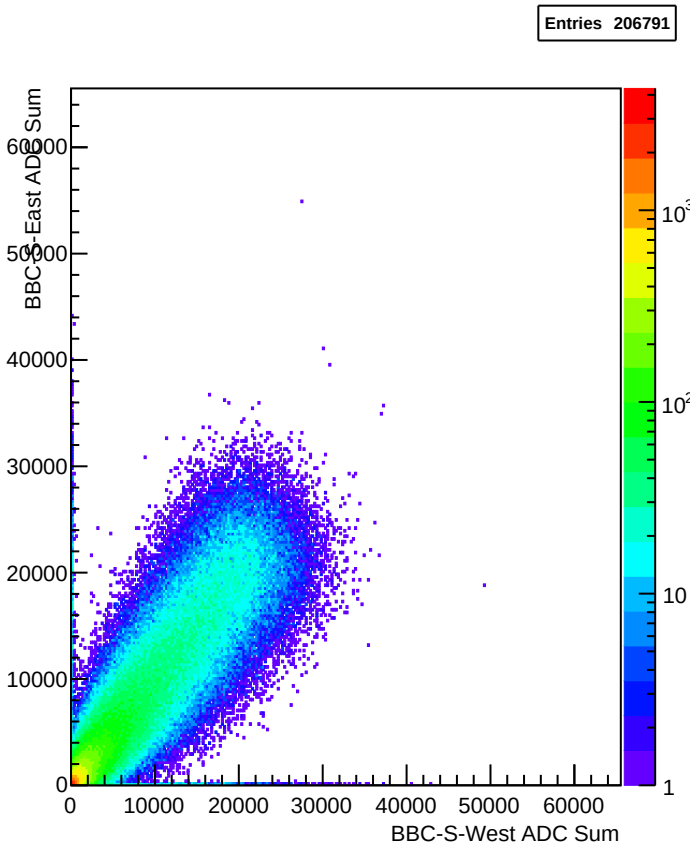

Entries 206791
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

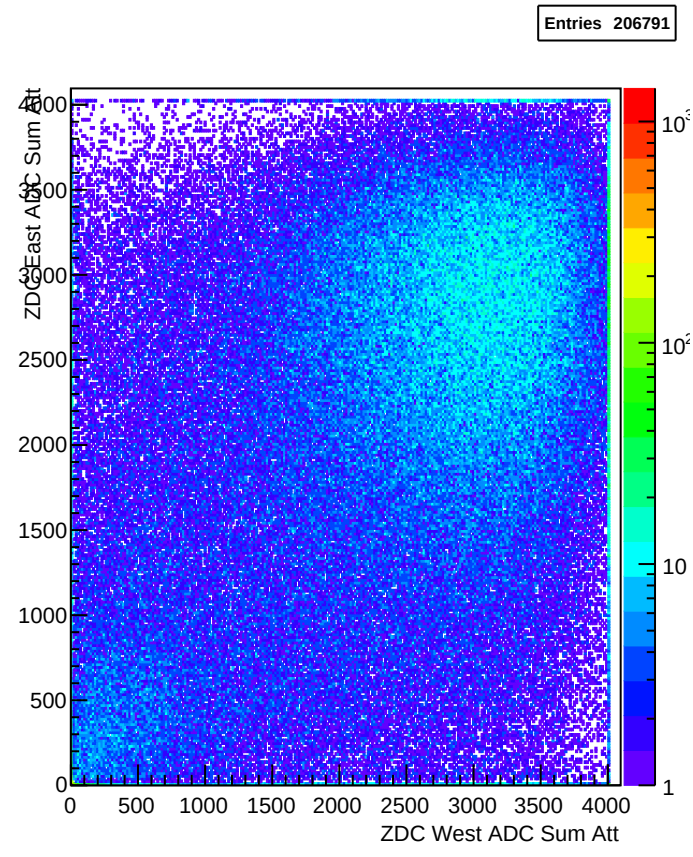

Entries 206791
BBC-S-East ADC Sum
VPD-East ADC Sum

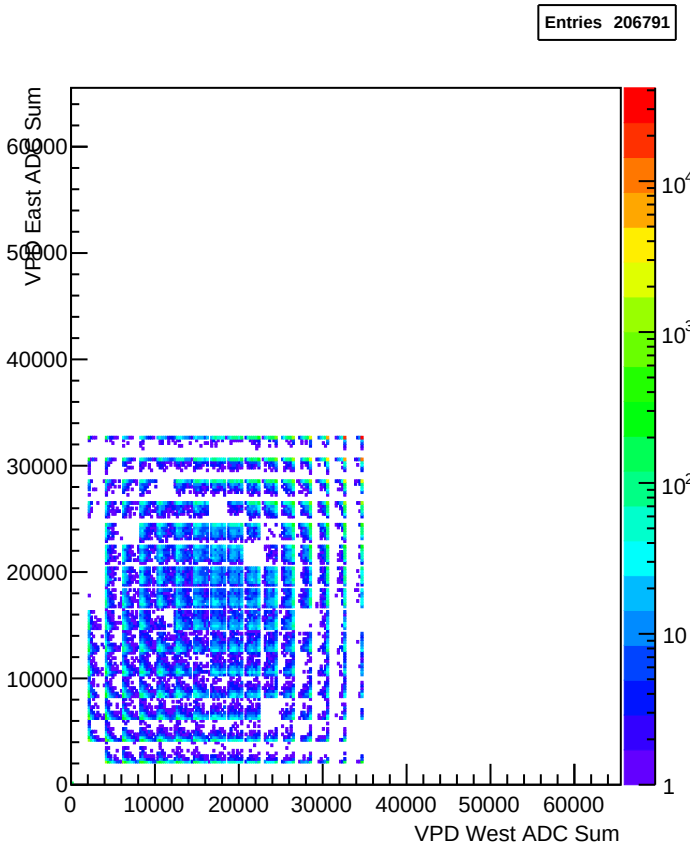

Entries 206791
BBC-S-West ADC Sum
VPD-West ADC Sum

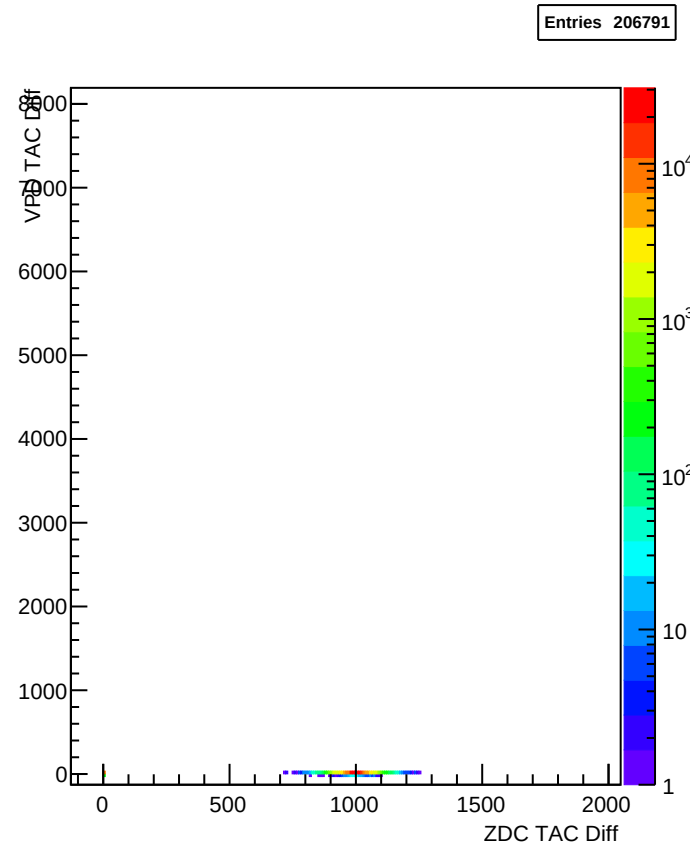

Entries 206791
VPD-East ADC Sum
ZDC-East ADC Sum Att

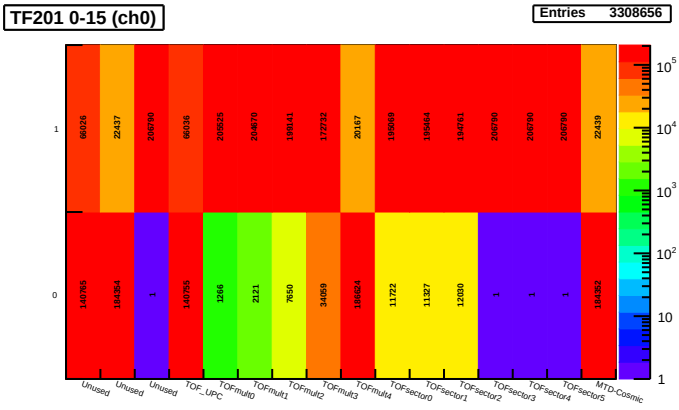

Entries 206791
VPD-West ADC Sum
ZDC-West ADC Sum Att


Entries 206791
BBC-S-East ADC Sum
BBC-S-West ADC Sum


Entries 206791
ZDC East ADC Sum Att
ZDC West ADC Sum Att


Entries 206791
VPD East ADC Sum
VPD West ADC Sum


Entries 206791
VPD TAC Diff
ZDC TAC Diff


TF201 0-15 (ch0)
Entries 3308656
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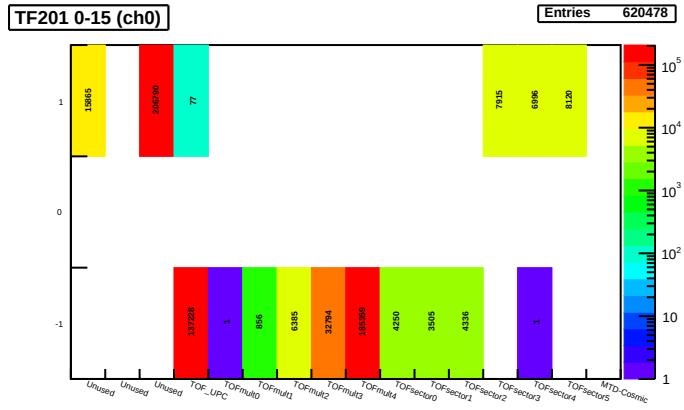
140765 184364 1 140765 1266 2121 7650 34069 186624 11722 11327 12080 1 1 1 184382
Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic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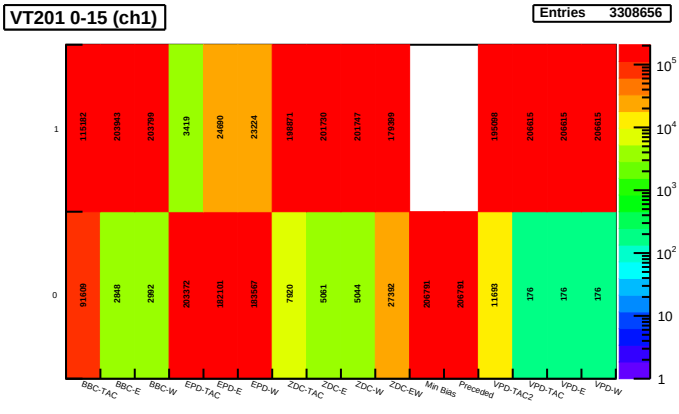
137228 1 856 6385 32794 185369 4250 3505 4336 1
Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic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Entries 3308656
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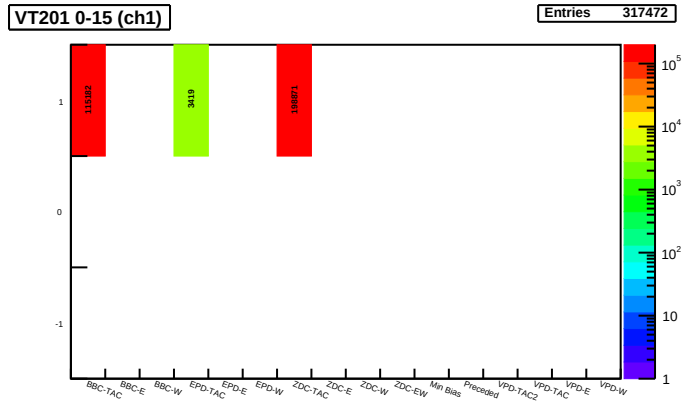
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W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Entries 317472
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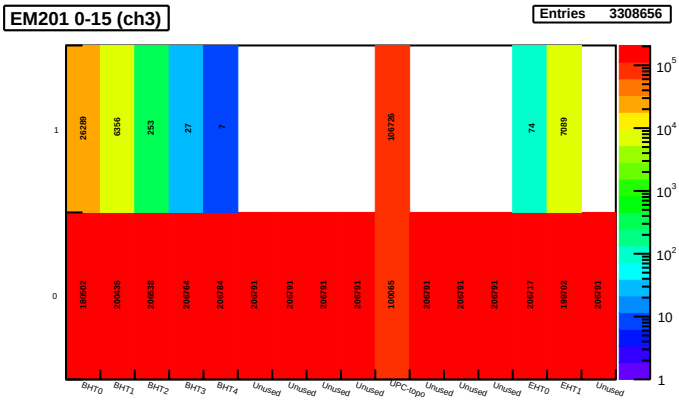
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W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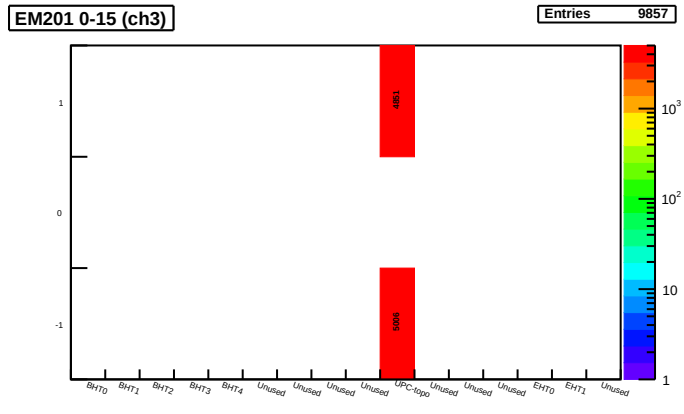
185602 200435 205538 206764 206764 206791 206791 206791 206791 100065 206791 206791 206791 206717 197702 206791
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused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Entries 9857
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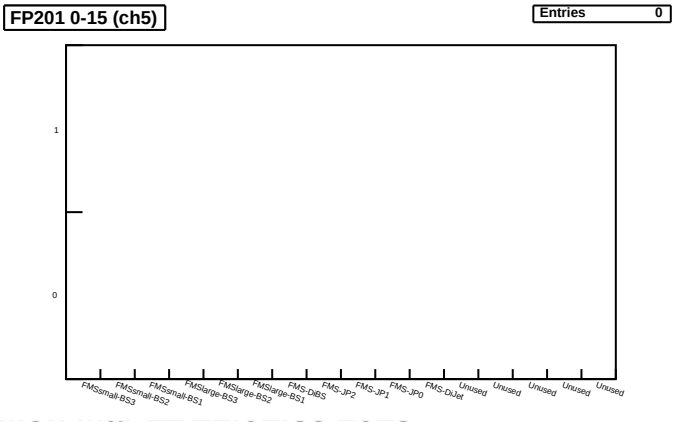
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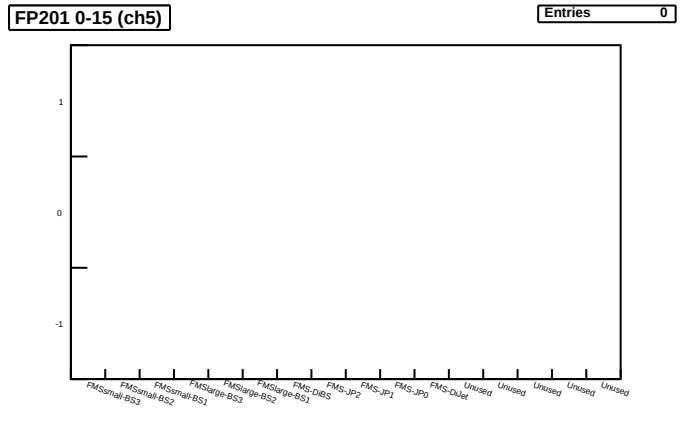
Entries 0
FMSsmall-BS3 FMSsmall-BS2 FMSsmall-BS1 FMSlarge-BS3 FMSlarge-BS2 FMSlarge-BS1 FMS-DiBS FMS-JP2 FMS-JP1 FMS-JP0 FMS-DiJet Unused Unused Unused Unused Unused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