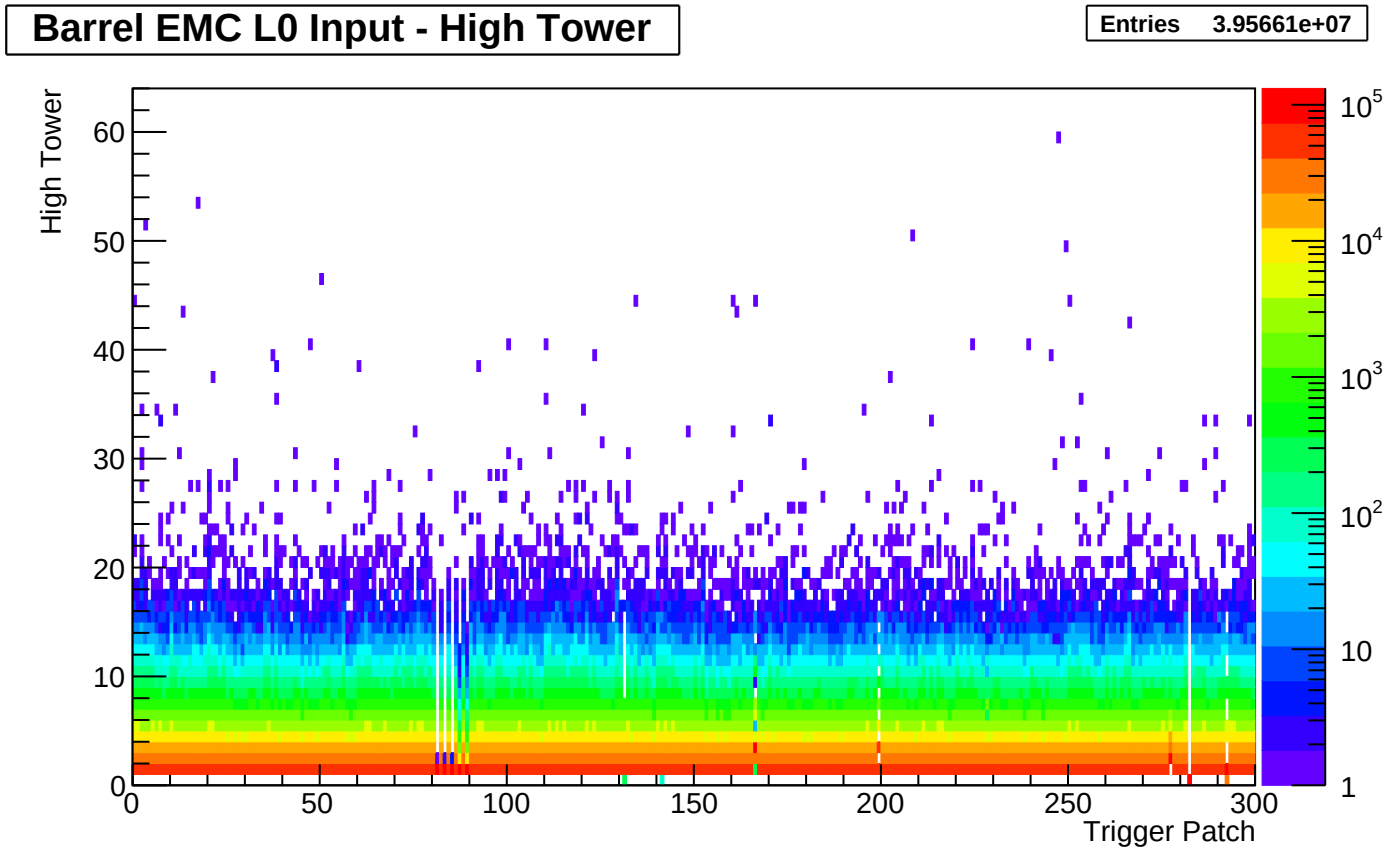
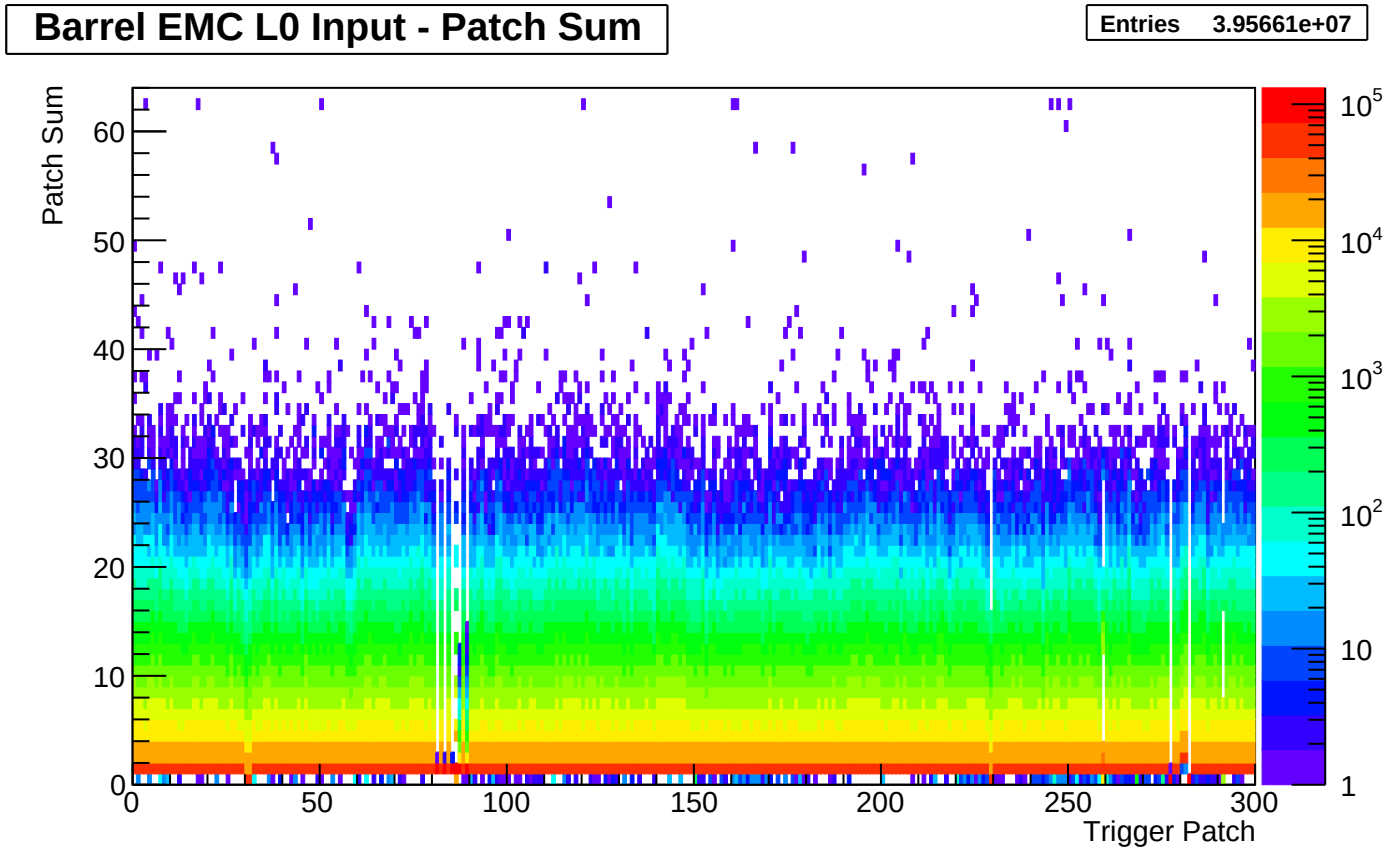
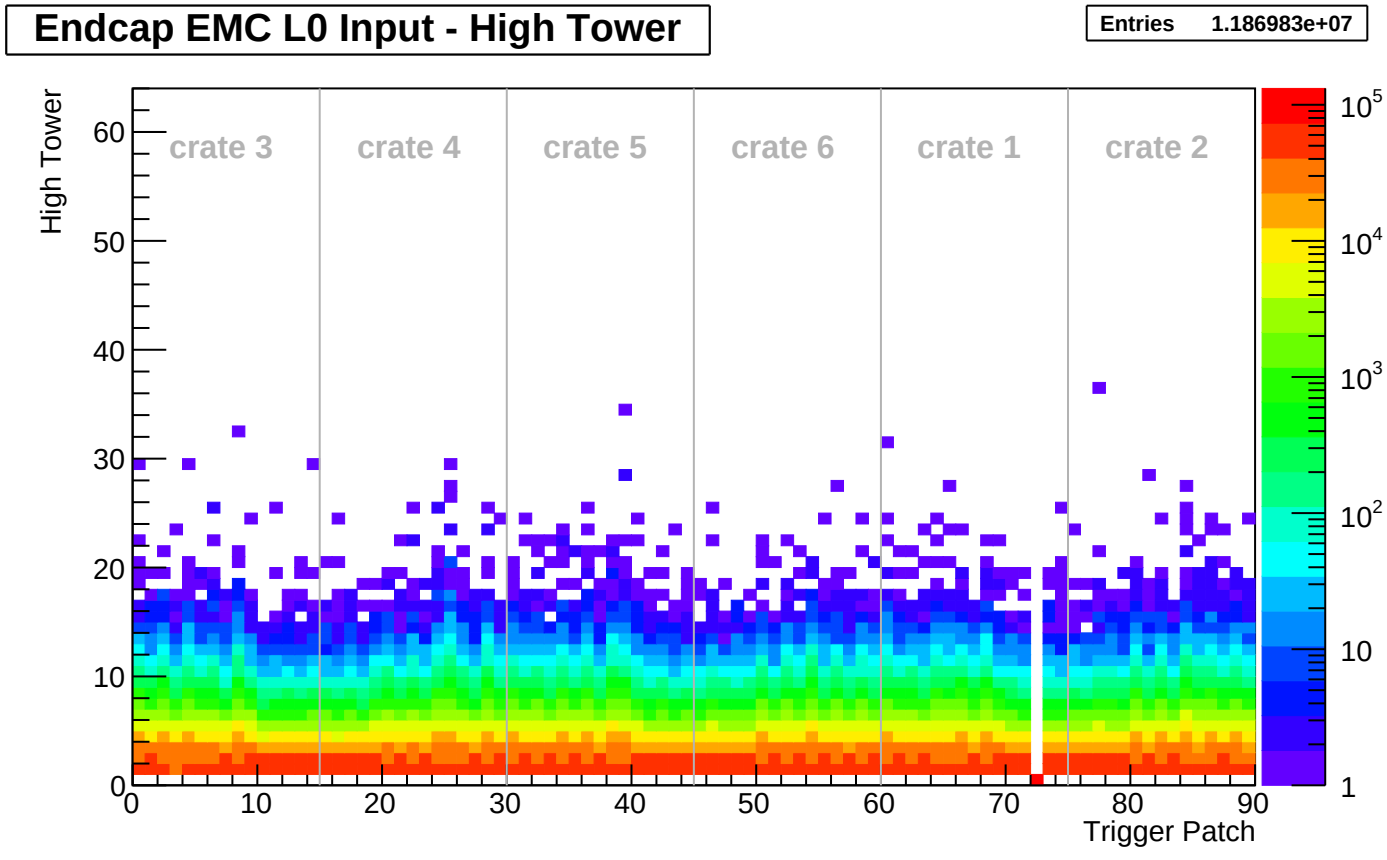
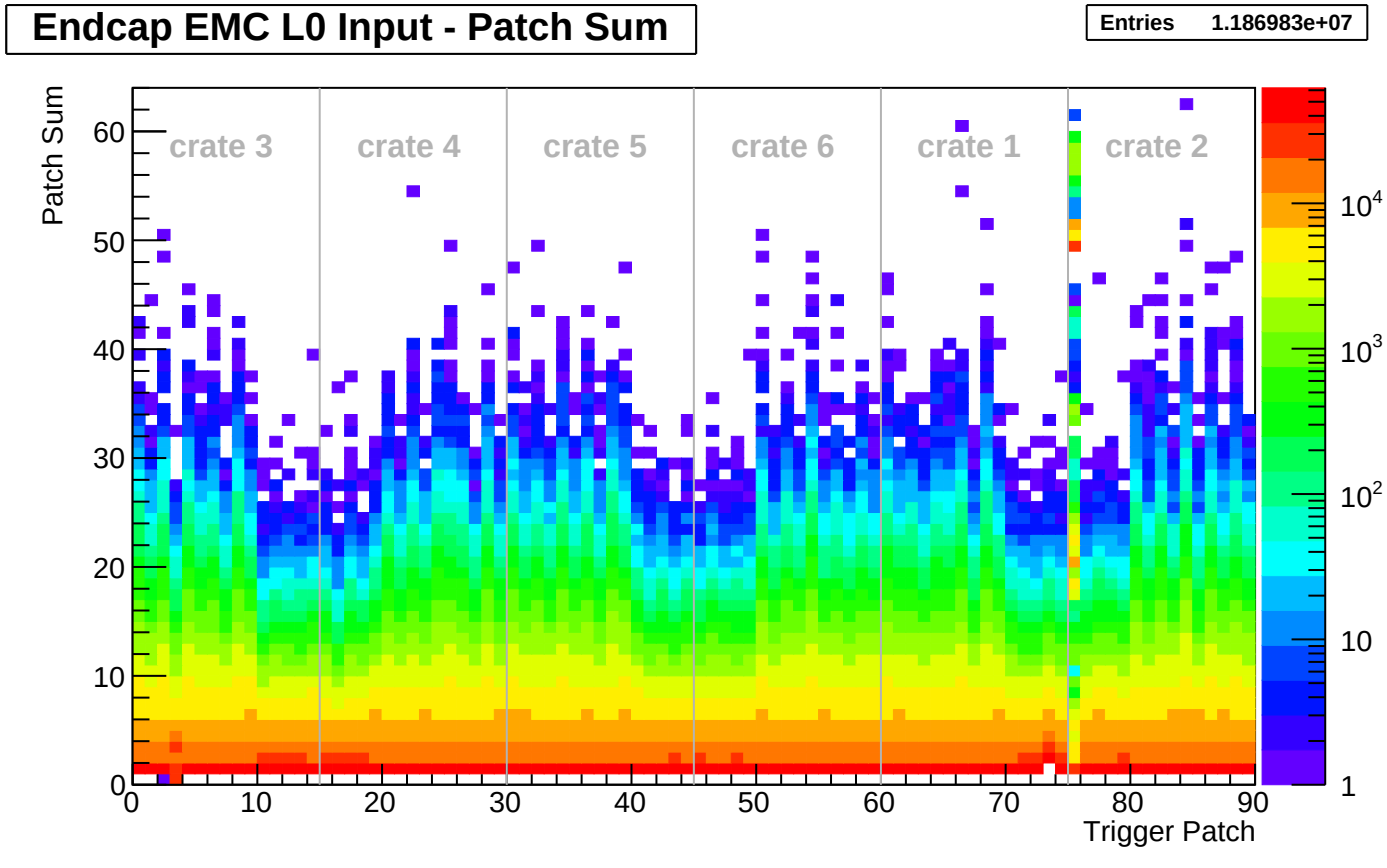
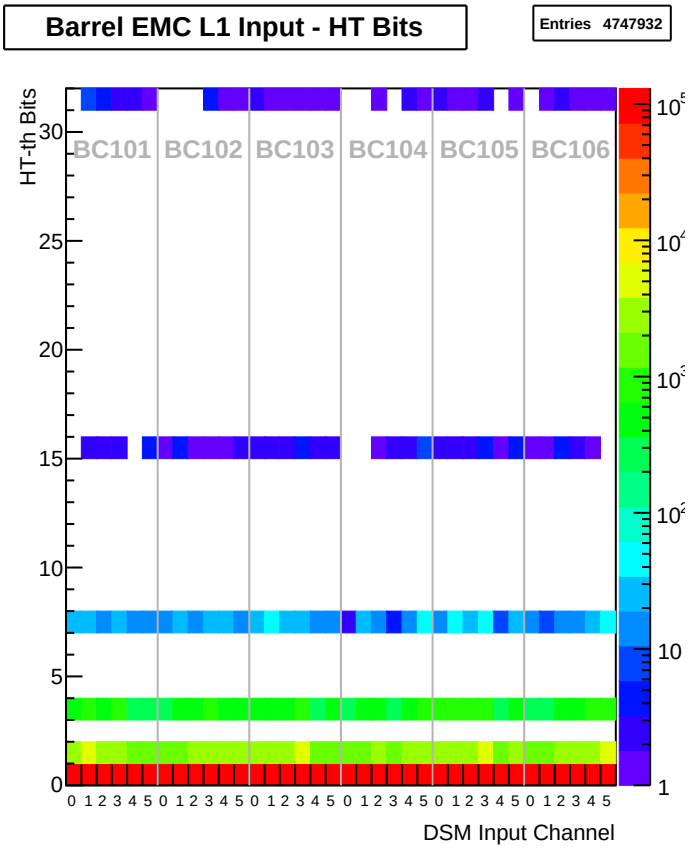
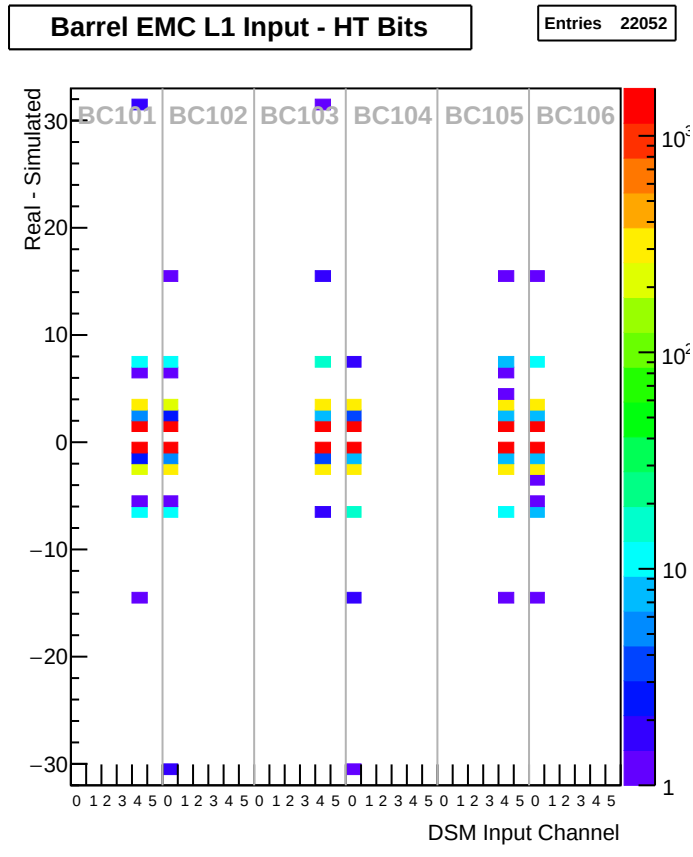

Barrel EMC L0 Input - High Tower
Entries 3.95661e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

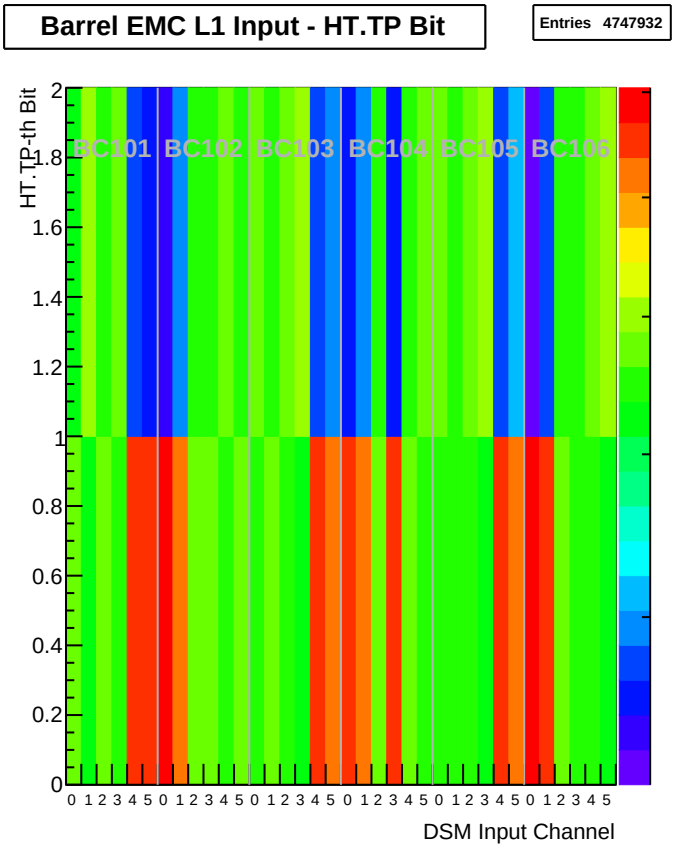

Barrel EMC L0 Input - Patch Sum
Entries 3.95661e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

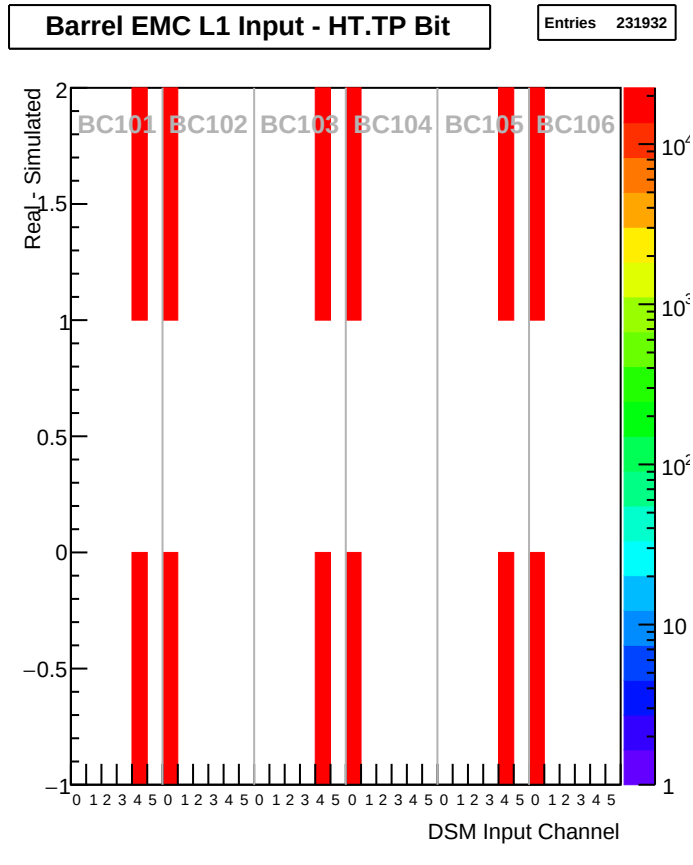

Endcap EMC L0 Input - High Tower
Entries 1.186983e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

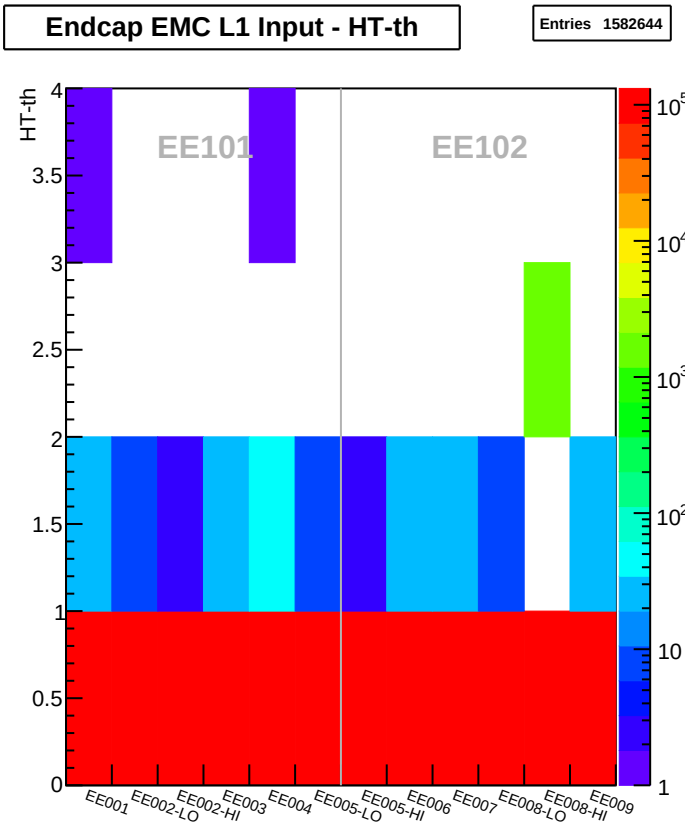

Endcap EMC L0 Input - Patch Sum
Entries 1.186983e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

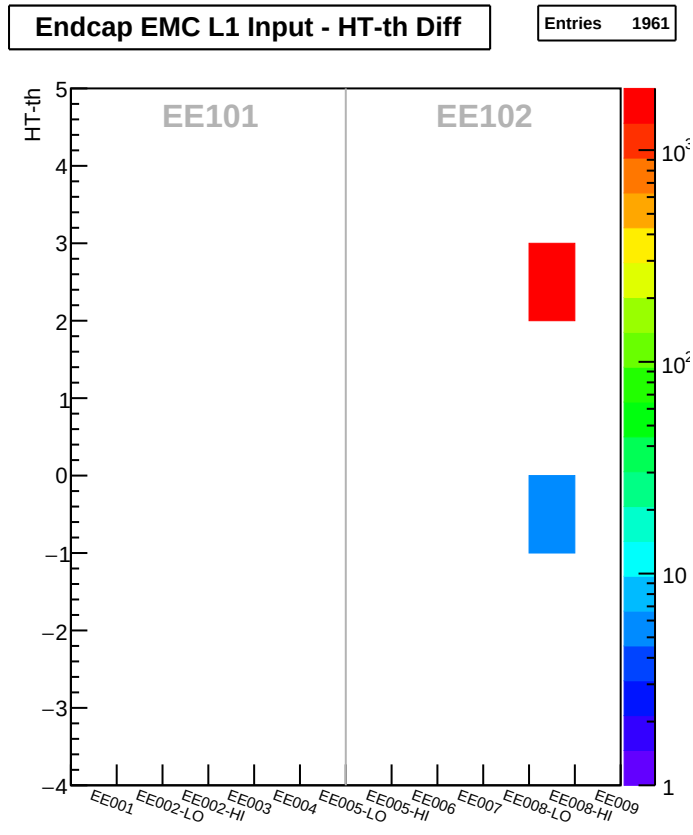

Barrel EMC L1 Input - HT Bits
Entries 4747932
HT-th Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

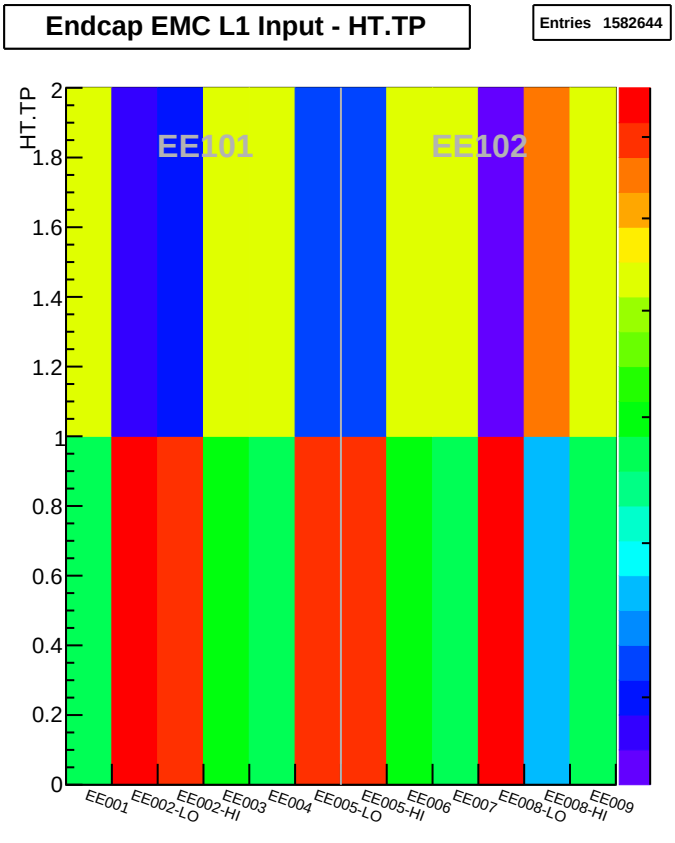

Barrel EMC L1 Input - HT Bits
Entries 22052
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

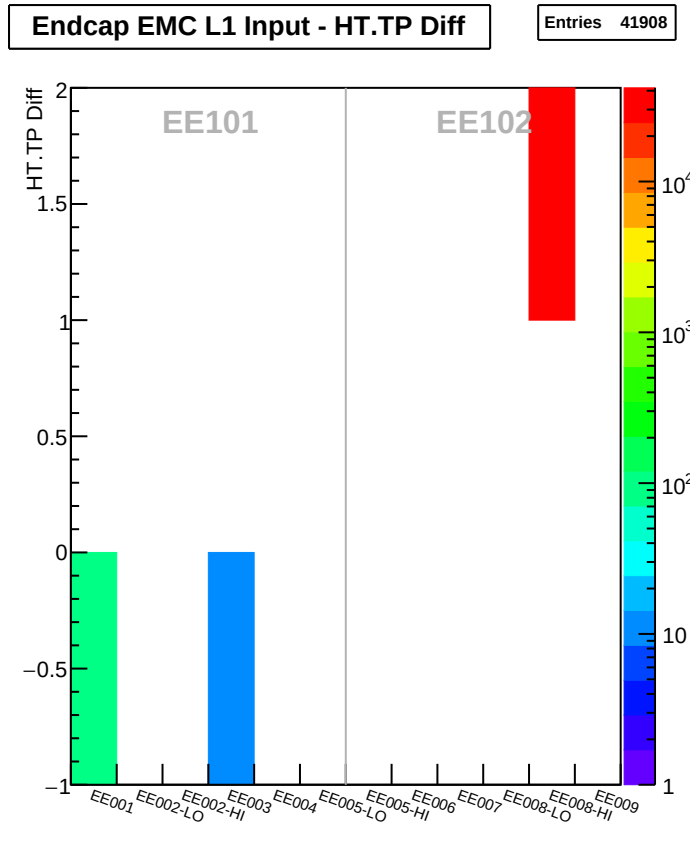

Barrel EMC L1 Input - HT.TP Bit
Entries 4747932
HT.TP-th Bit
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

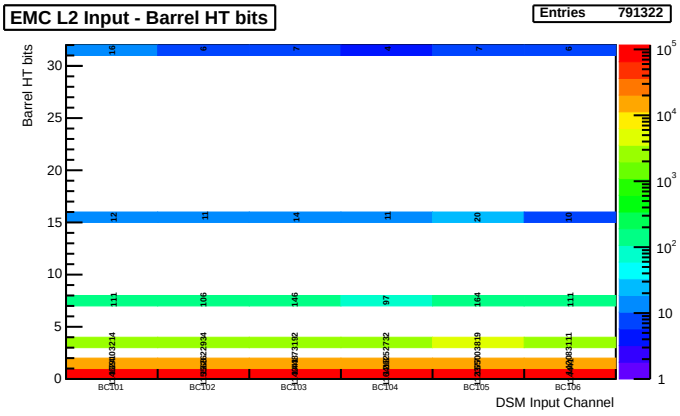

Barrel EMC L1 Input - HT.TP Bit
Entries 231932
Real - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

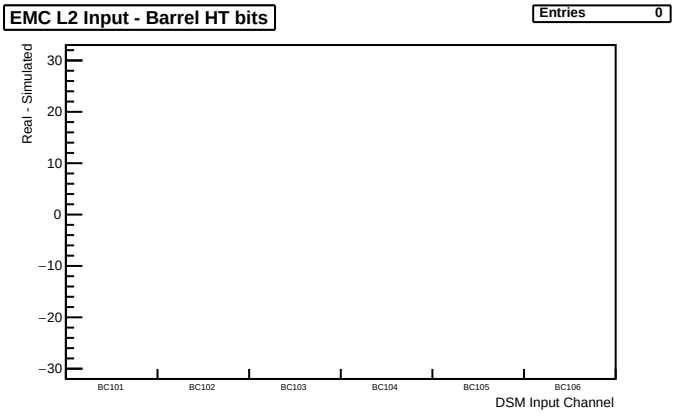

Endcap EMC L1 Input - HT-th
Entries 1582644
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

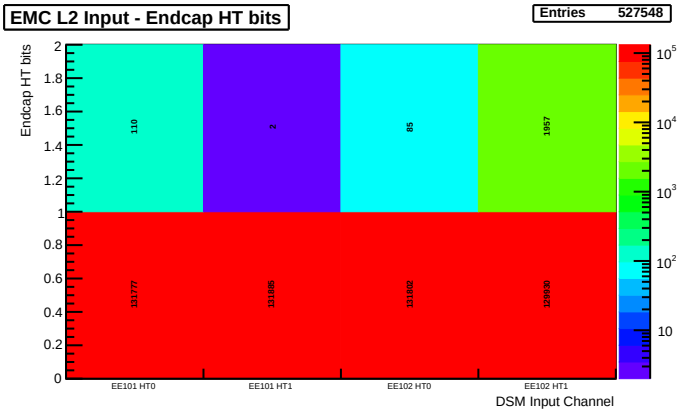

Endcap EMC L1 Input - HT-th Diff
Entries 1961
HT-th
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

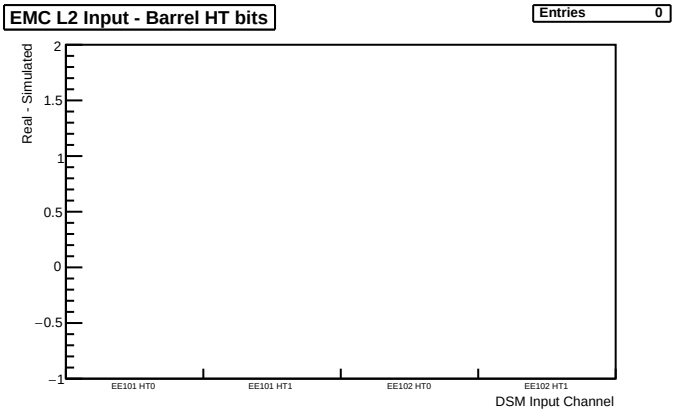

Endcap EMC L1 Input - HT.TP
Entries 1582644
HT.TP
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

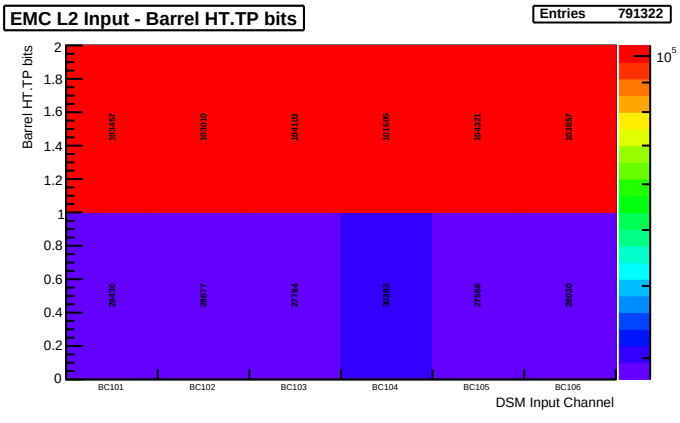

Endcap EMC L1 Input - HT.TP Diff
Entries 41908
HT.TP Diff
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

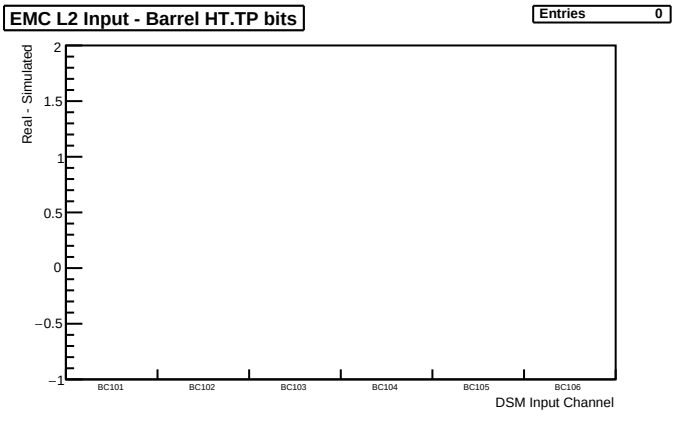

EMC L2 Input - Barrel HT bits
Entries 791322
Barrel HT bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

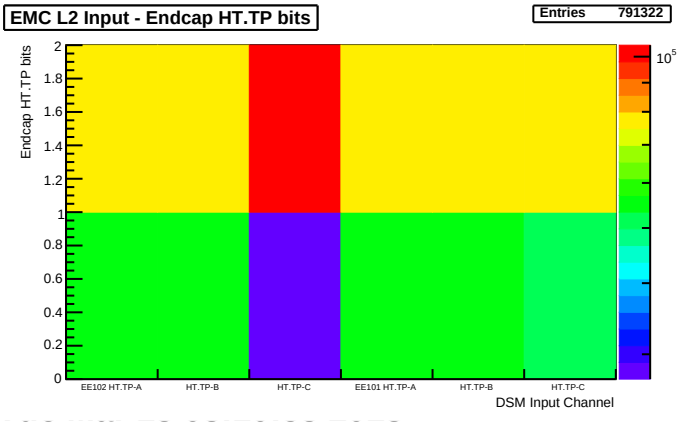

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

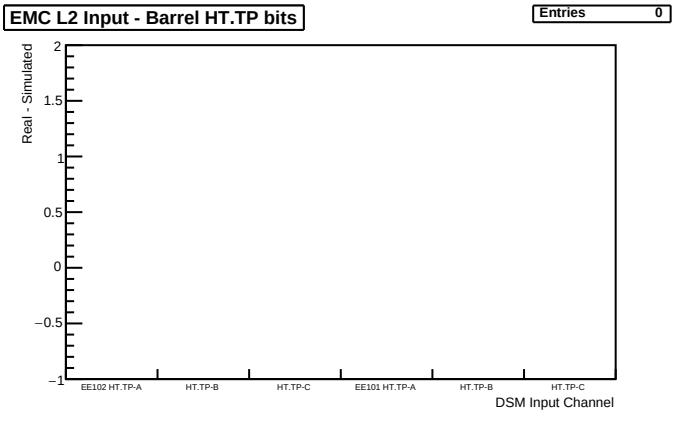

EMC L2 Input - Endcap HT bits
Entries 527548
Endcap HT bits
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

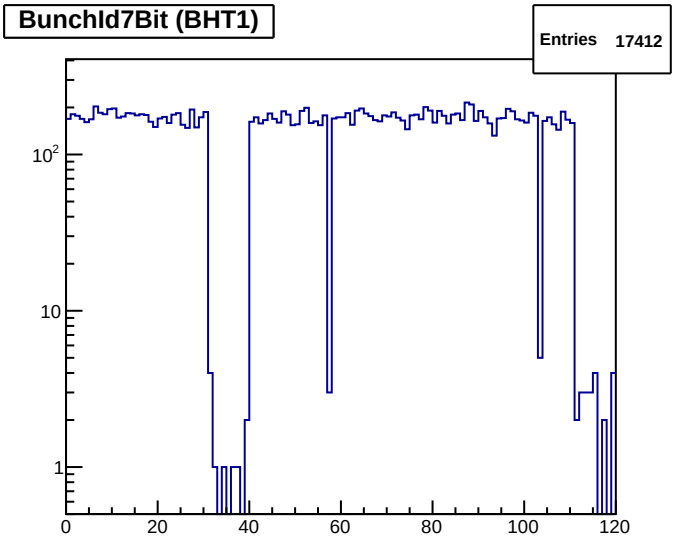

EMC L2 Input - Barrel HT bits
Entries 0
Real - Simulated
DSM Input Channel
EE101 HT0
EE101 HT1
EE102 HT0
EE102 HT1

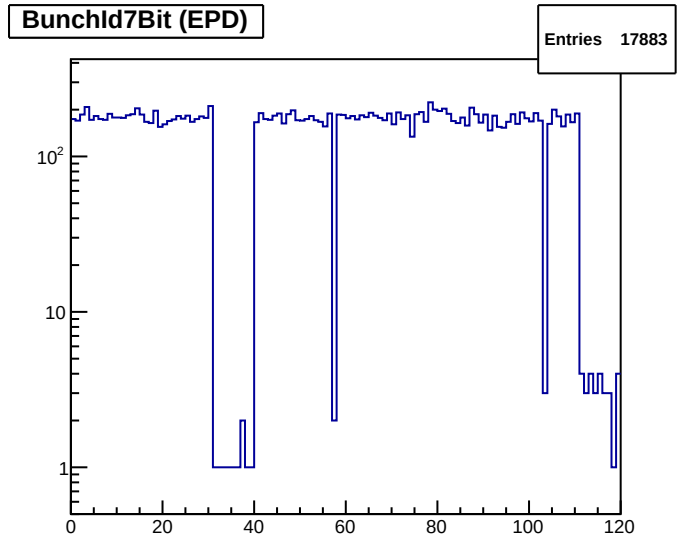

EMC L2 Input - Barrel HT.TP bits
Entries 791322
Barrel HT.TP bits
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

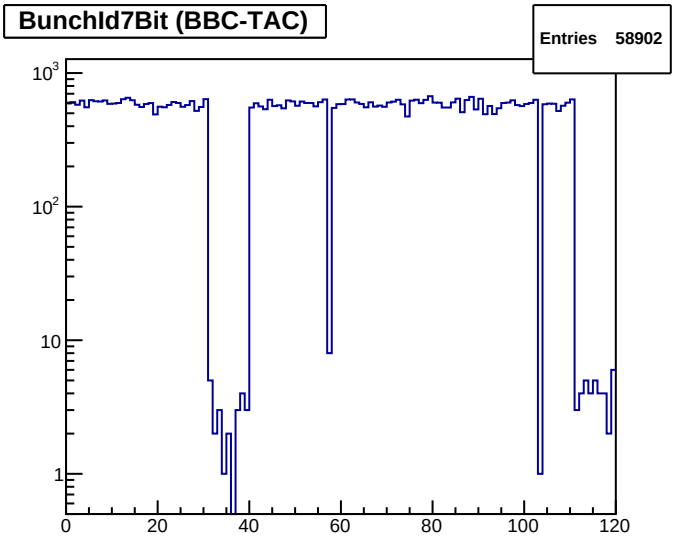

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
BC101
BC102
BC103
BC104
BC105
BC106

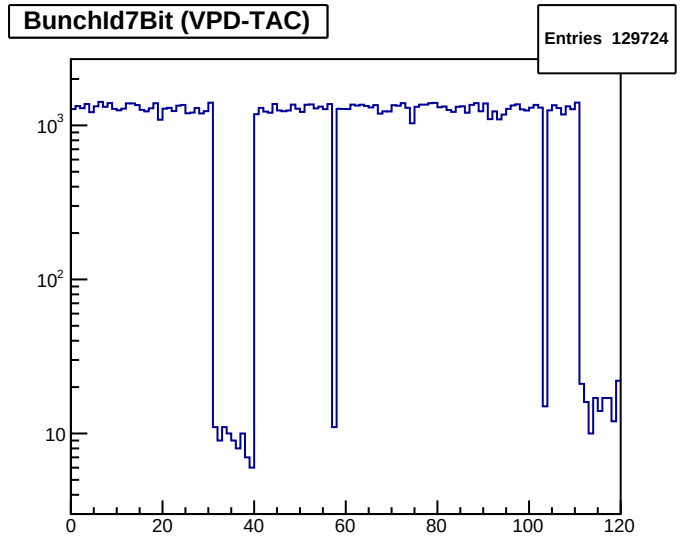

EMC L2 Input - Endcap HT.TP bits
Entries 791322
Endcap HT.TP bits
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

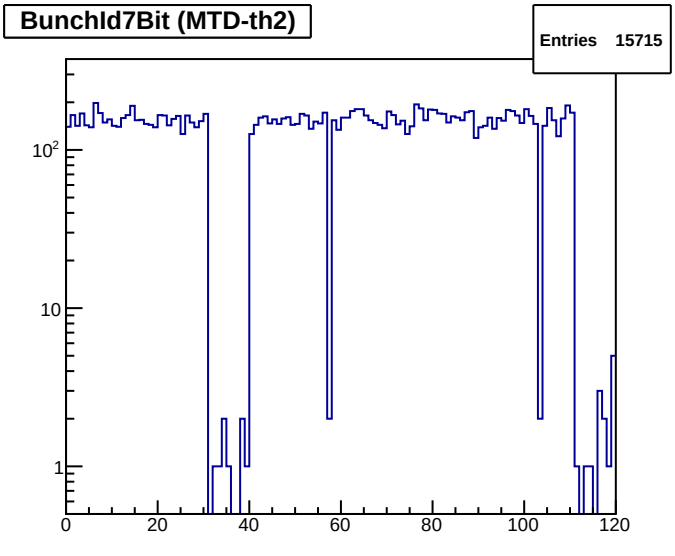

EMC L2 Input - Barrel HT.TP bits
Entries 0
Real - Simulated
DSM Input Channel
EE102 HT.TP-A
HT.TP-B
HT.TP-C
EE101 HT.TP-A
HT.TP-B
HT.TP-C

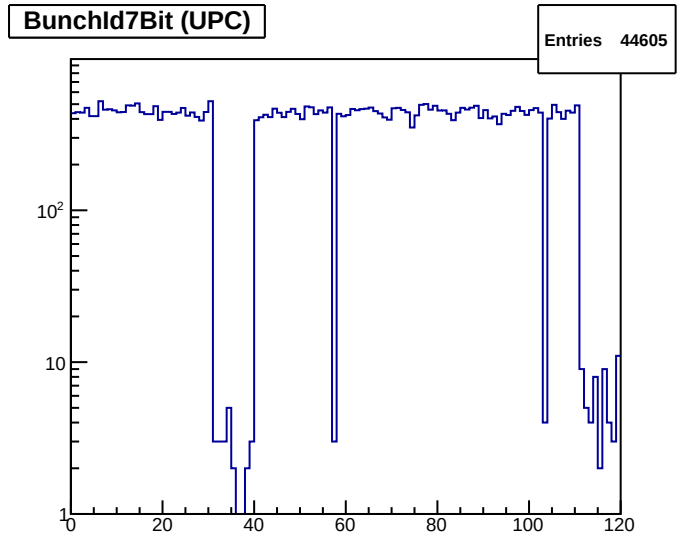

BunchId7Bit (BHT1)
Entries 17412

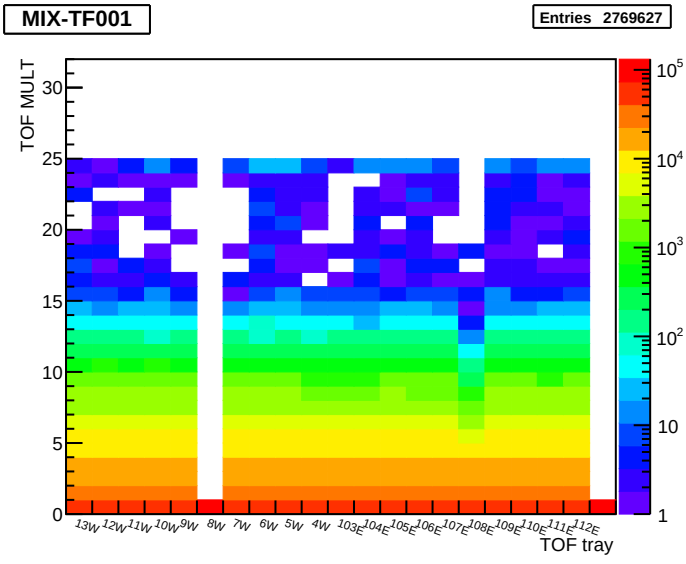

BunchId7Bit (EPD)
Entries 17883

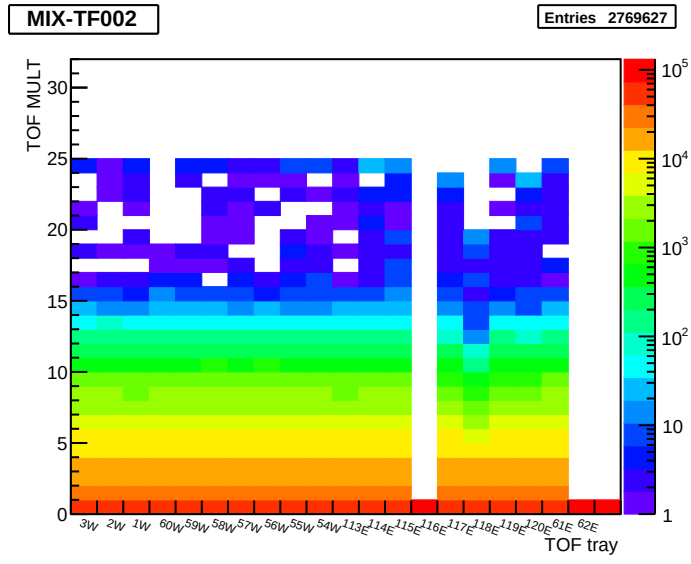

BunchId7Bit (BBC-TAC)
Entries 58902

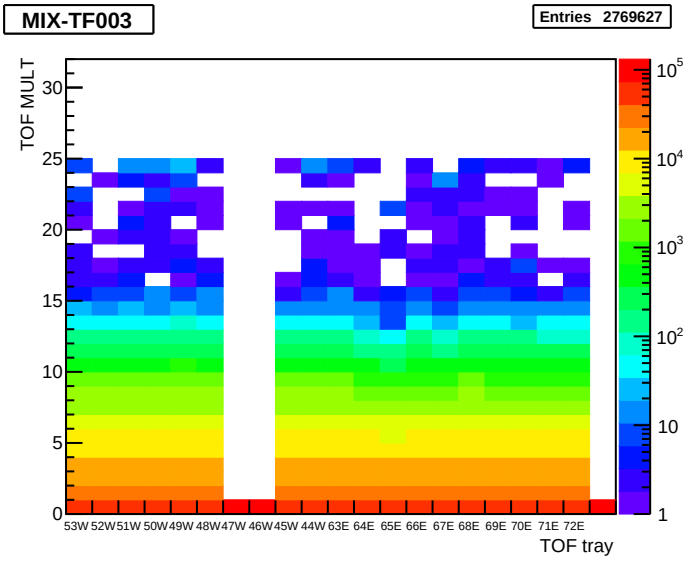

BunchId7Bit (VPD-TAC)
Entries 129724

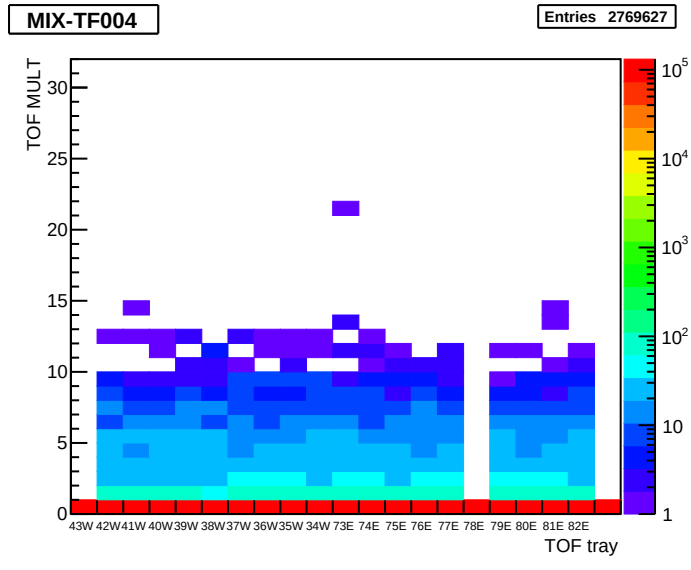

BunchId7Bit (MTD-th2)
Entries 15715

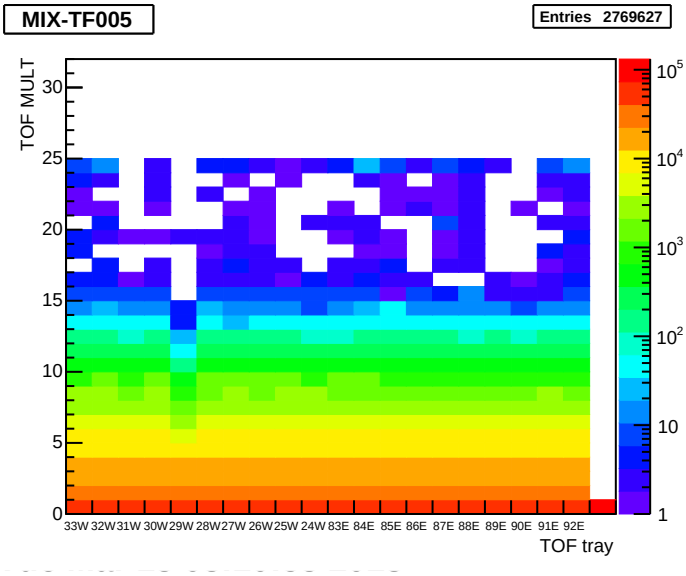

BunchId7Bit (UPC)
Entries 44605

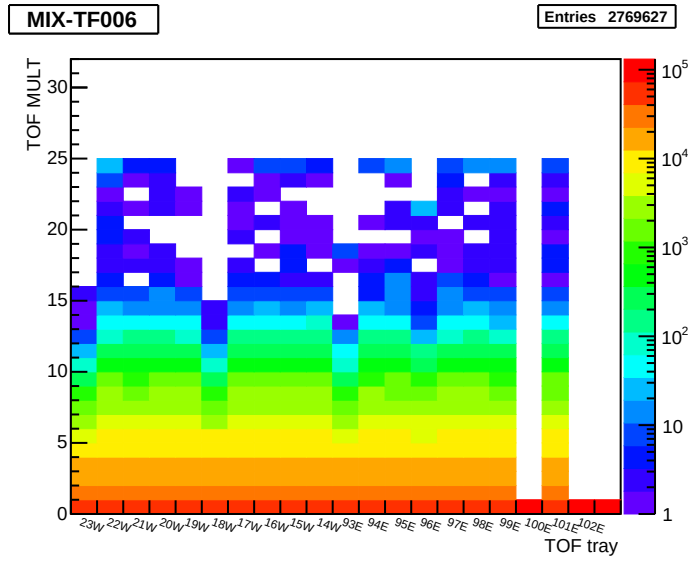

MIX-TF001
Entries 2769627
TOF MULT
TOF tray

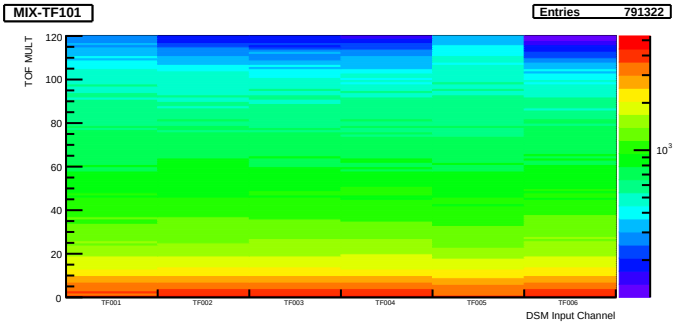

MIX-TF002
Entries 2769627
TOF MULT
TOF tray

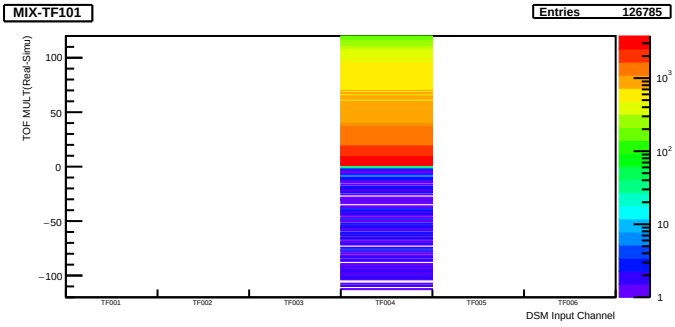

MIX-TF003
Entries 2769627
TOF MULT
TOF tray

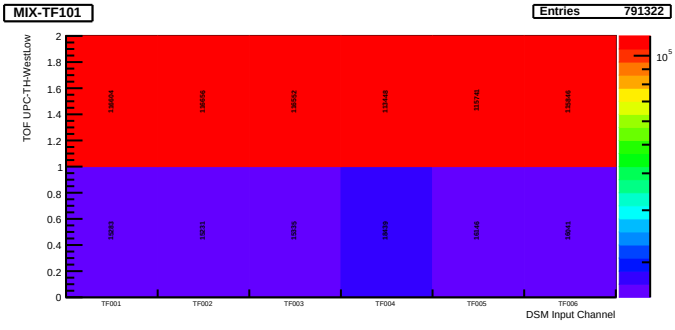

MIX-TF004
Entries 2769627
TOF MULT
TOF tray

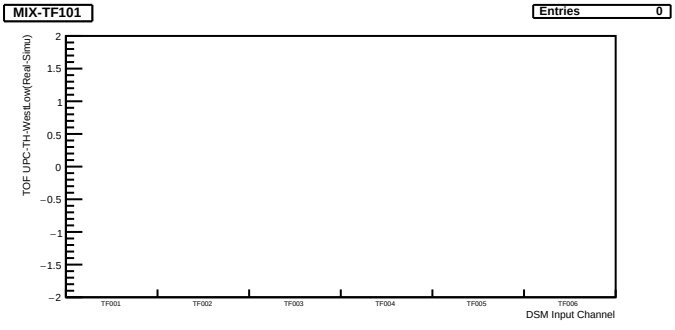

MIX-TF005
Entries 2769627
TOF MULT
TOF tray

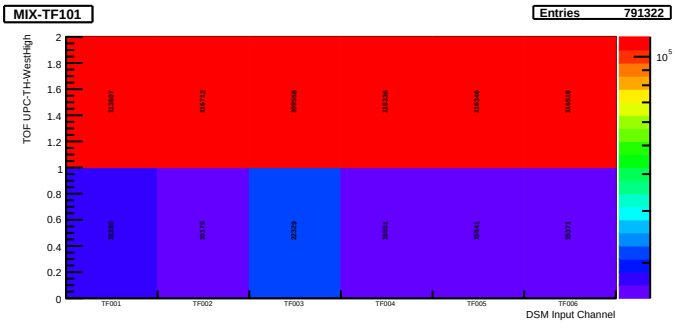

MIX-TF006
Entries 2769627
TOF MULT
TOF tray

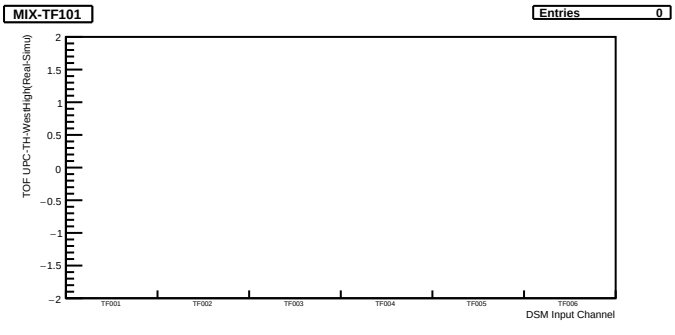

MIX-TF101
Entries 791322
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

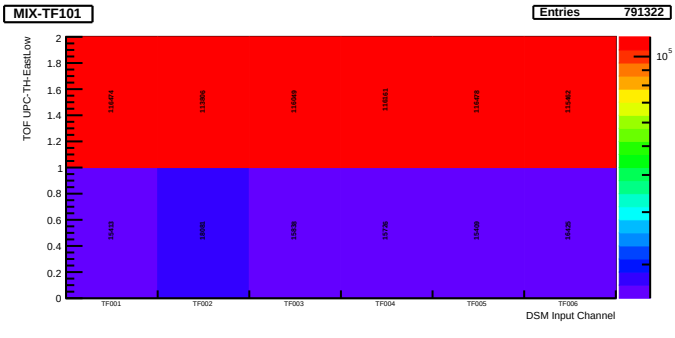

MIX-TF101
Entries 126785
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

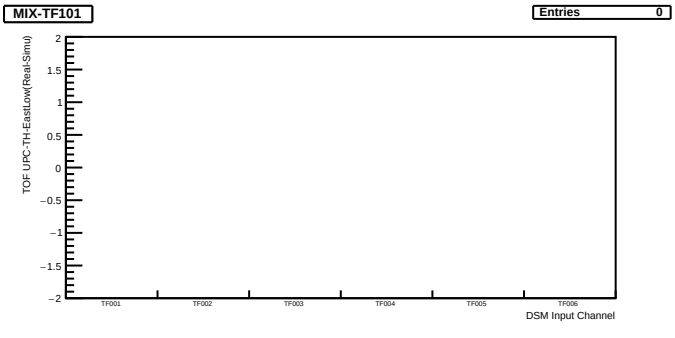

MIX-TF101
Entries 791322
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

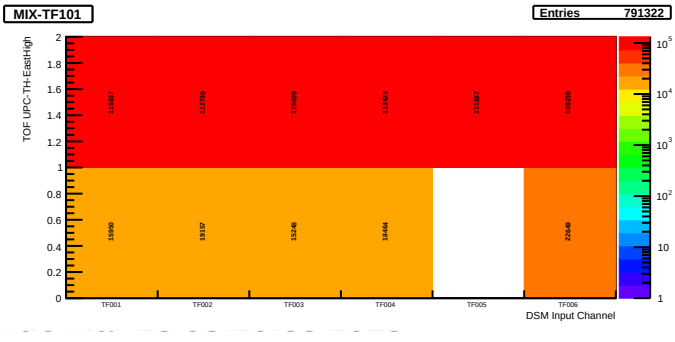

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

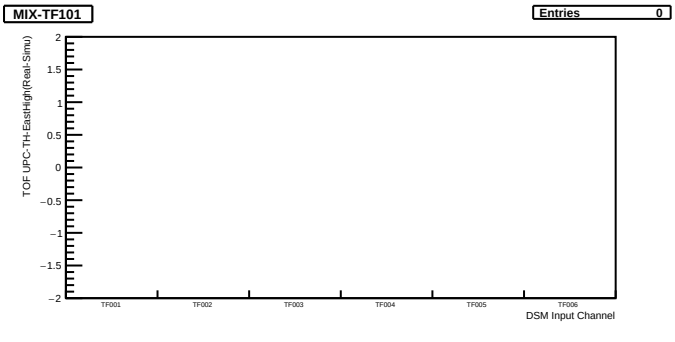

MIX-TF101
Entries 791322
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

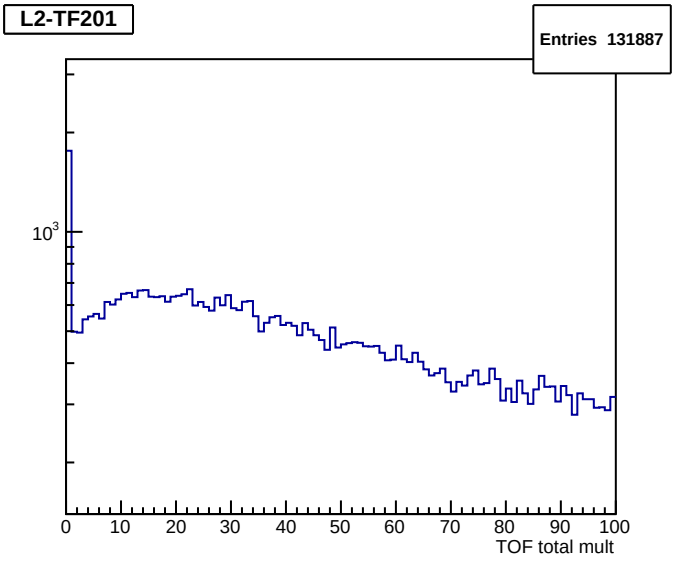

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

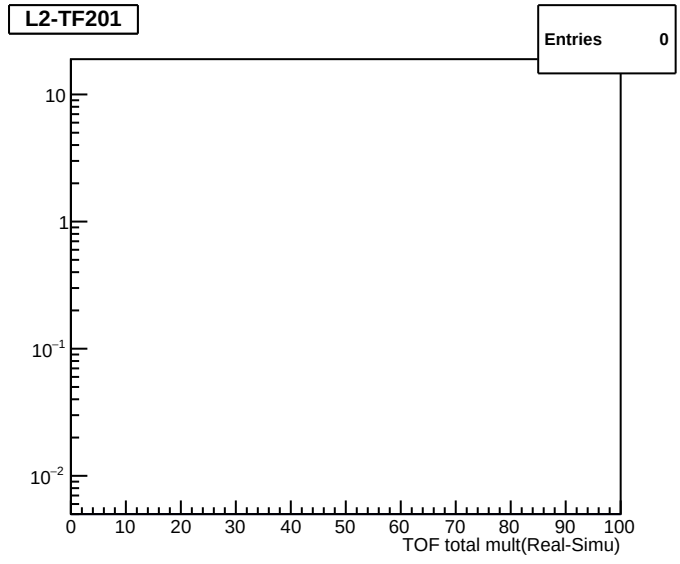

MIX-TF101
Entries 791322
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

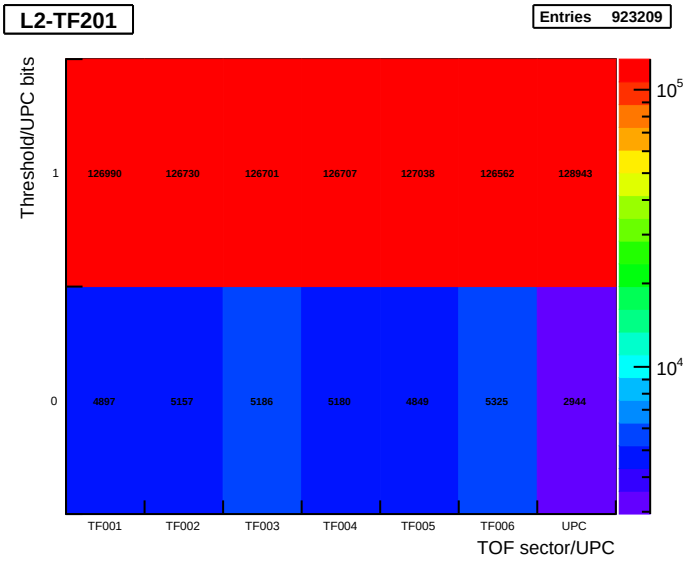

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

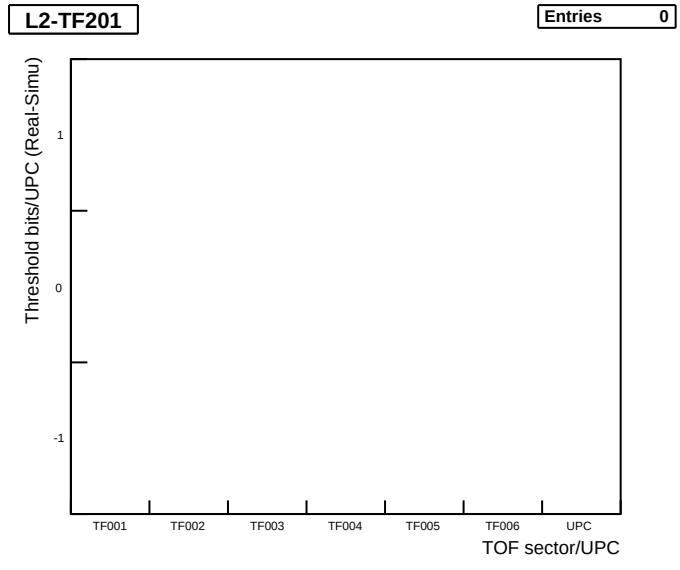

MIX-TF101
Entries 791322
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

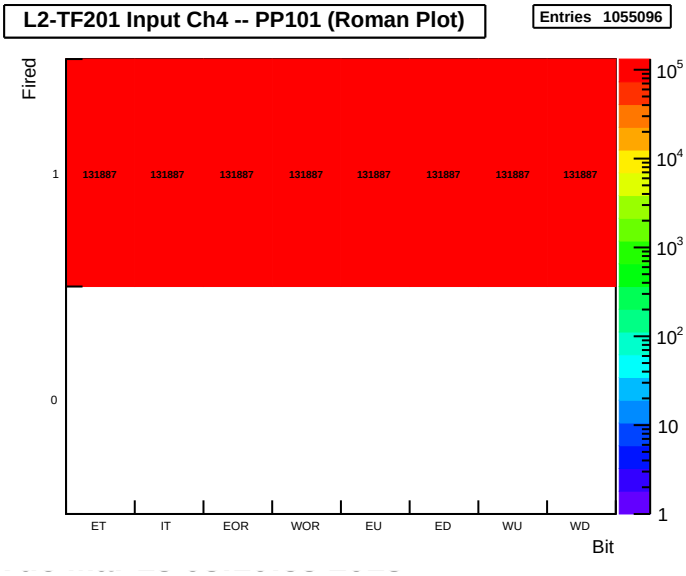

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

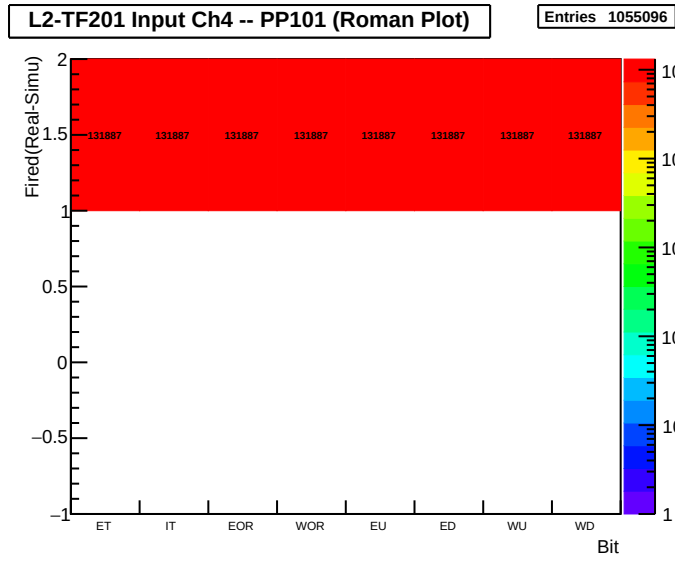

L2-TF201
Entries 131887
10^3
0 10 20 30 40 50 60 70 80 90 100
TOF total mult

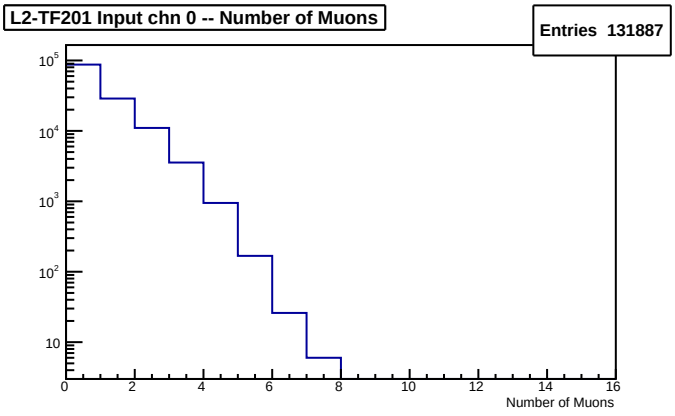

L2-TF201
Entries 0
10
1
10^{-1}
10^{-2}
0 10 20 30 40 50 60 70 80 90 100
TOF total mult(Real-Simu)

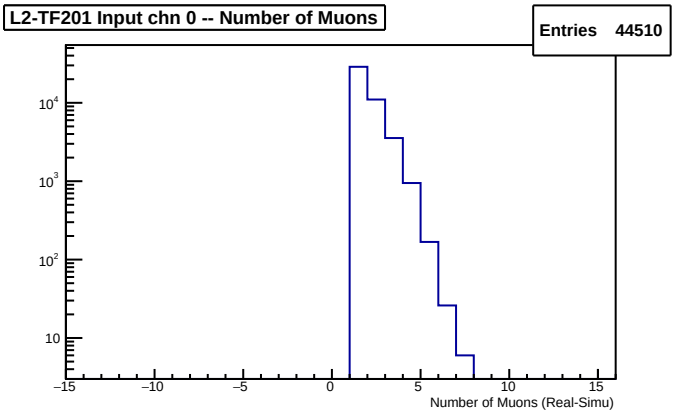

L2-TF201
Entries 923209
Threshold/UPC bits
1
0
126990 126730 126701 126707 127038 126562 128943
4897 5157 5186 5180 4849 5325 2944
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC
10^5
10^4

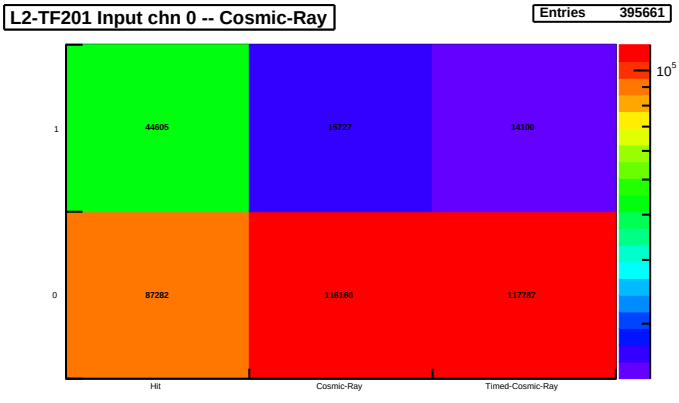

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
1
0
-1
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

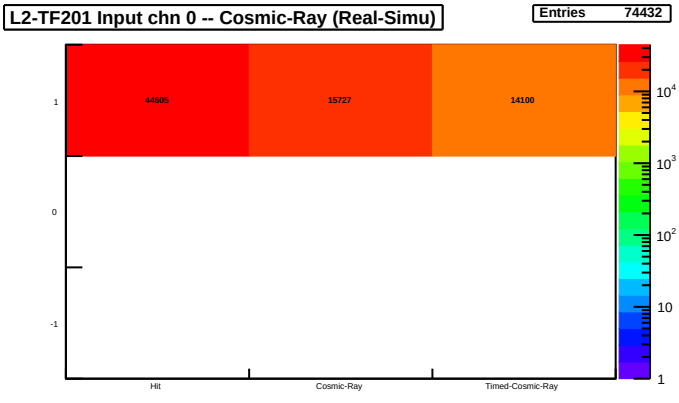

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 1055096
Fired
1
0
131887 131887 131887 131887 131887 131887 131887 131887
ET IT EOR WOR EU ED WU WD
Bit
10^5
10^4
10^3
10^2
10
1

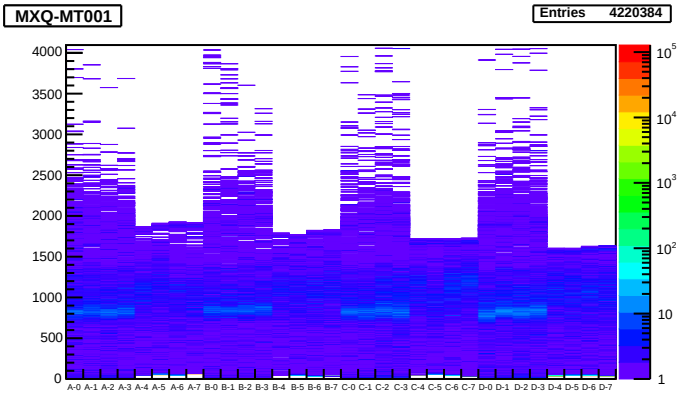

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 1055096
Fired(Real-Simu)
2
1.5
1
0.5
0
−0.5
−1
131887 131887 131887 131887 131887 131887 131887 131887
ET IT EOR WOR EU ED WU WD
Bit
10^5
10^4
10^3
10^2
10
1

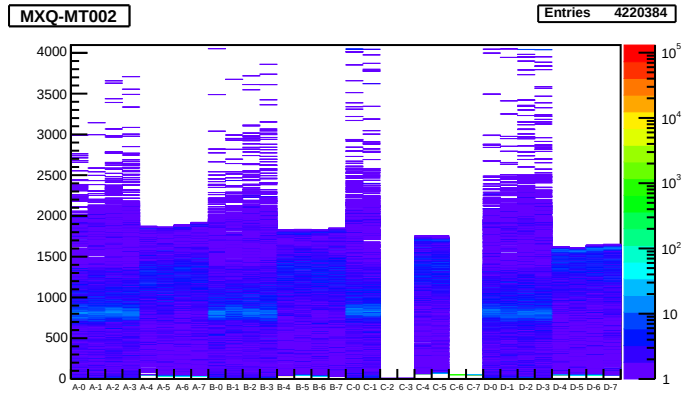

L2-TF201 Input chn 0 -- Number of Muons
Entries 131887
Number of Muons

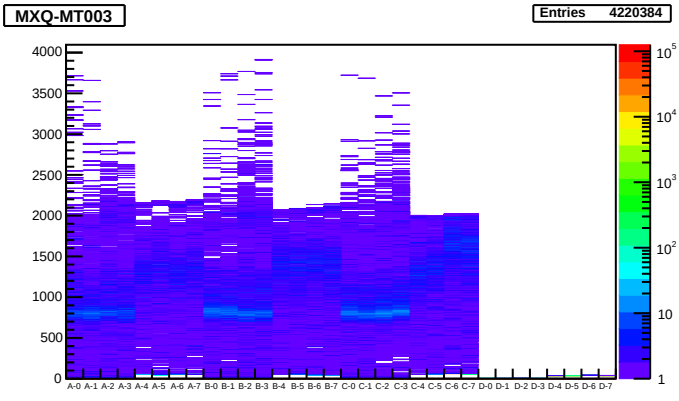

L2-TF201 Input chn 0 -- Number of Muons
Entries 44510
Number of Muons (Real-Simu)

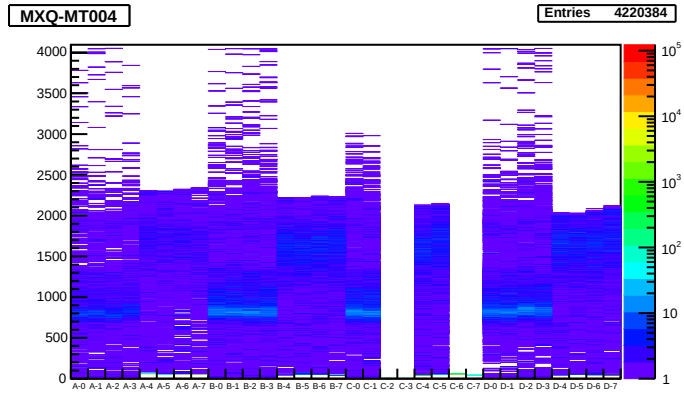

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 395661
44605
15727
14100
87282
116160
117787
Hit
Cosmic-Ray
Timed-Cosmic-Ray

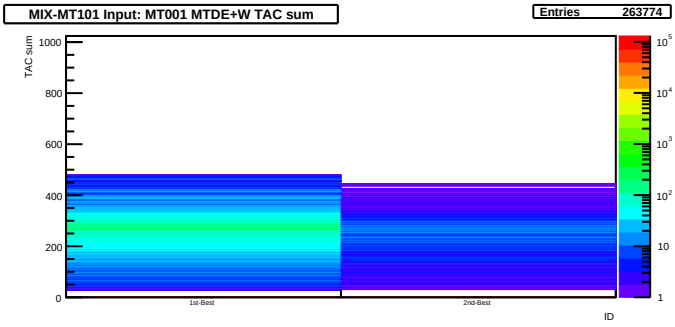

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 74432
44605
15727
14100
Hit
Cosmic-Ray
Timed-Cosmic-Ray

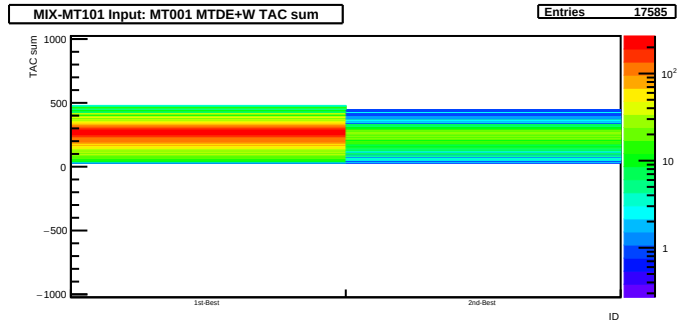

MXQ-MT001
Entries 4220384
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

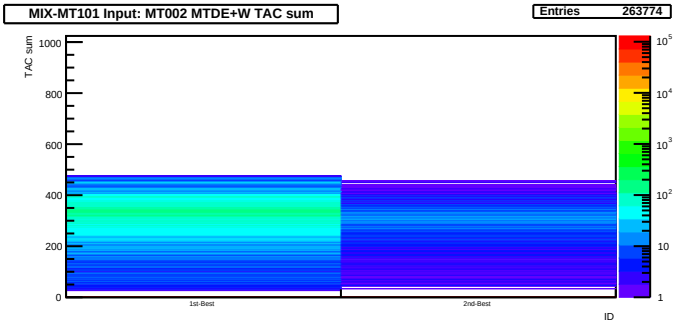

MXQ-MT002
Entries 4220384
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

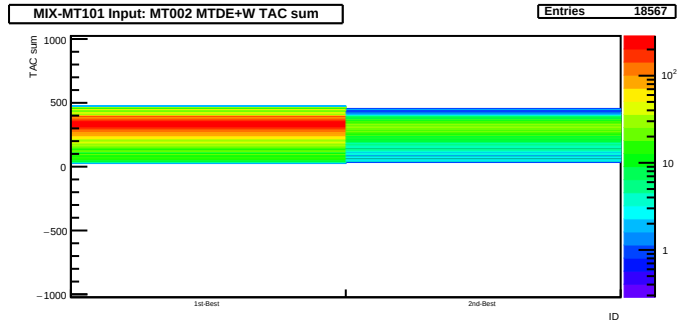

MXQ-MT003
Entries 4220384
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

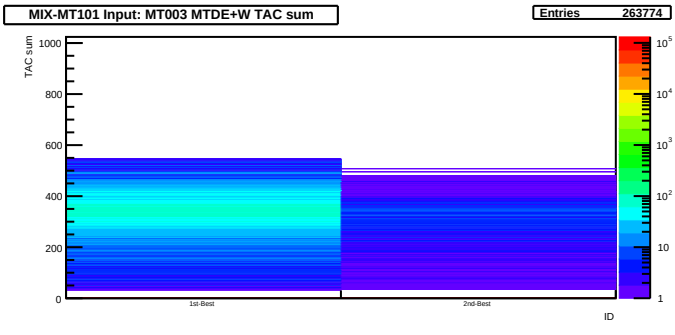

MXQ-MT004
Entries 4220384
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^5
10^4
10^3
10^2
10
1

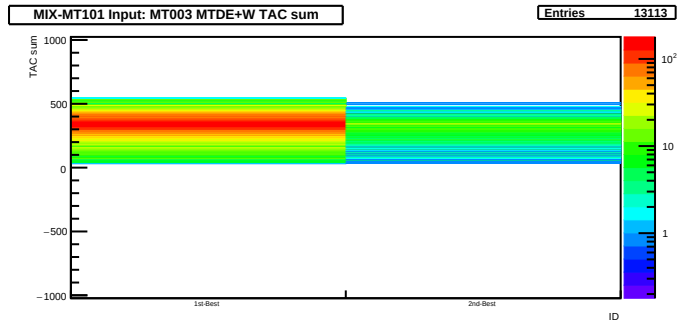

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 263774
TAC sum
ID
1st-Best
2nd-Best

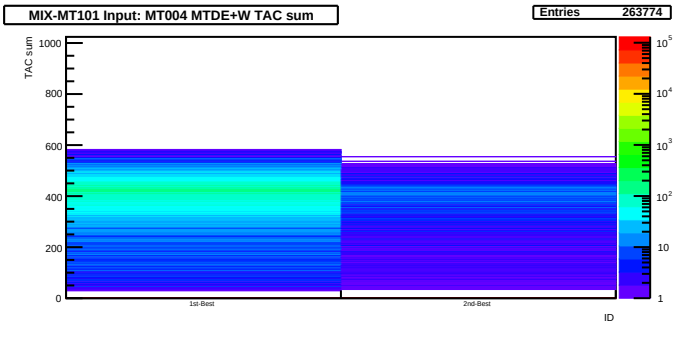

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 17585
TAC sum
ID
1st-Best
2nd-Best

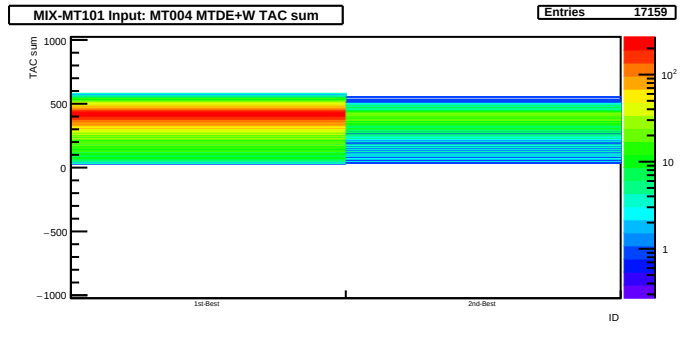

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 263774
TAC sum
ID
1st-Best
2nd-Best

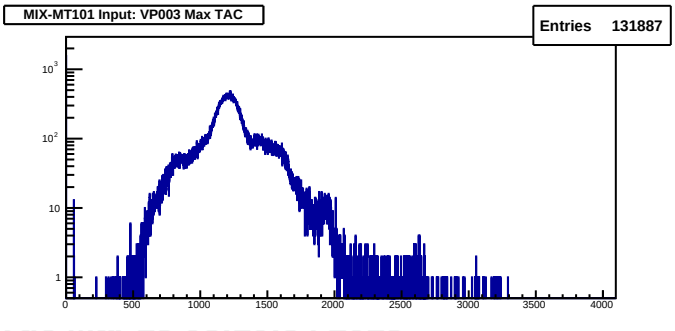

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 18567
TAC sum
ID
1st-Best
2nd-Best

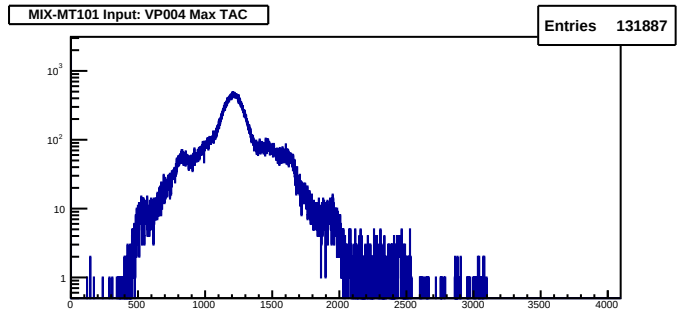

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 263774
TAC sum
ID
1st-Best
2nd-Best

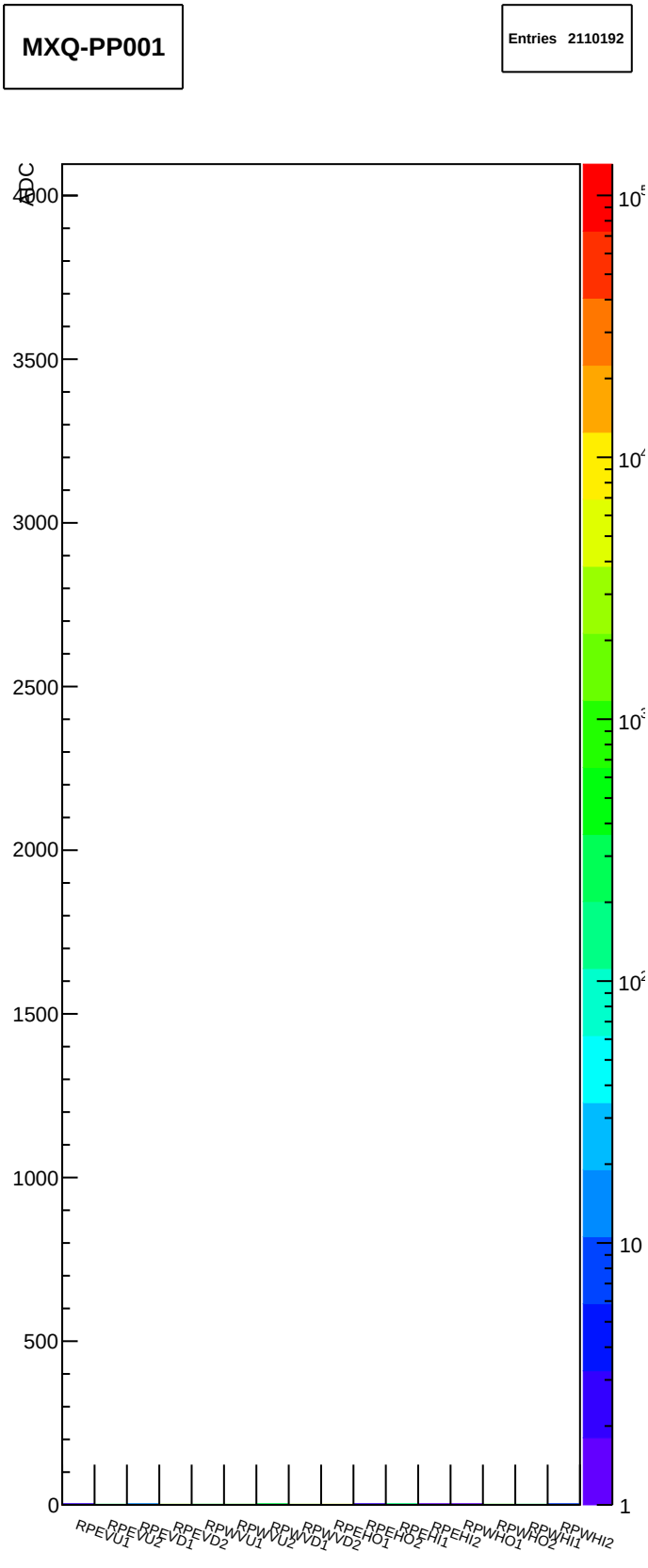

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 13113
TAC sum
ID
1st-Best
2nd-Best

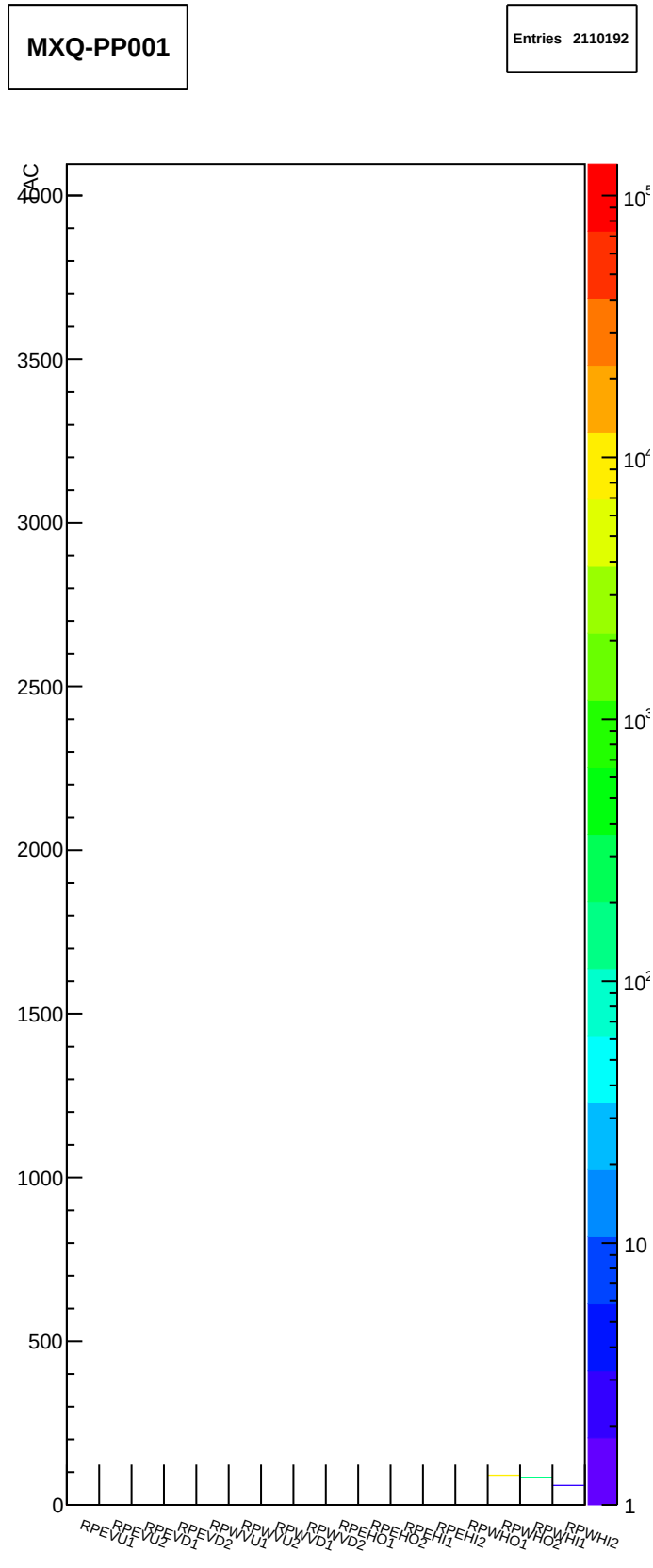

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 263774
TAC sum
ID
1st-Best
2nd-Best

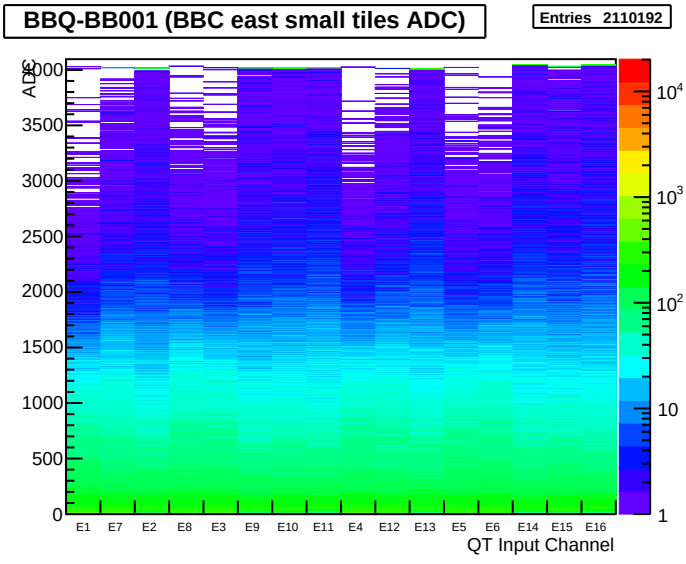

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 17159
TAC sum
ID
1st-Best
2nd-Best

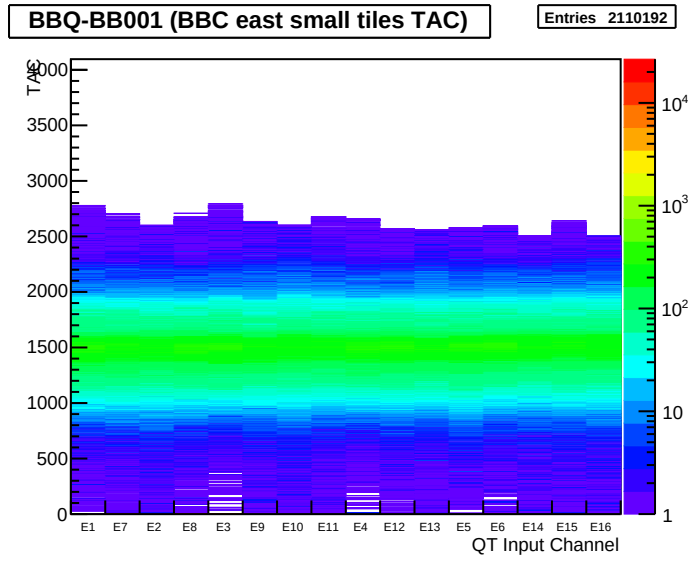

MIX-MT101 Input: VP003 Max TAC
Entries 131887

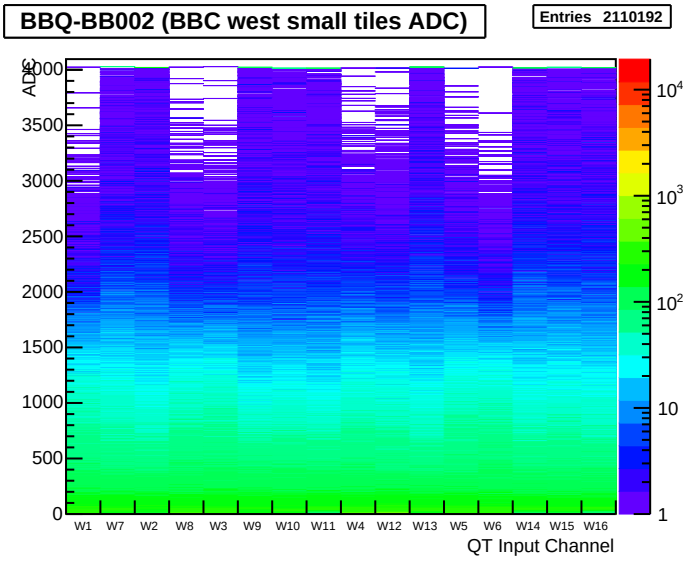

MIX-MT101 Input: VP004 Max TAC
Entries 131887

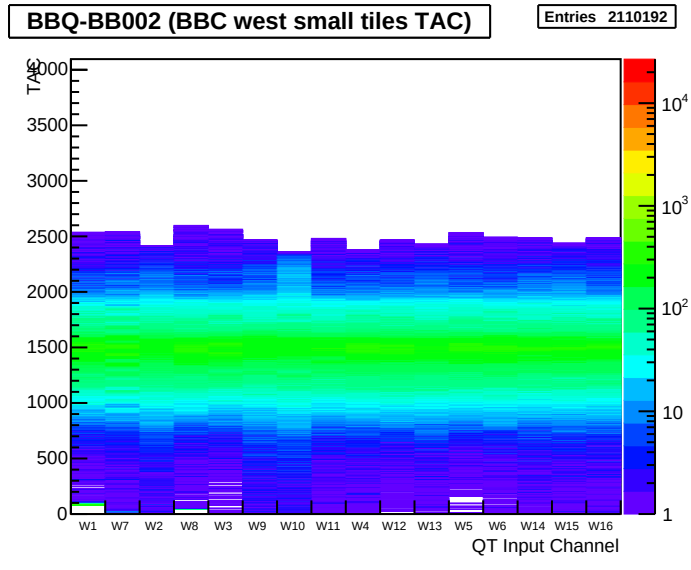

MXQ-PP001
Entries 2110192
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
1
10

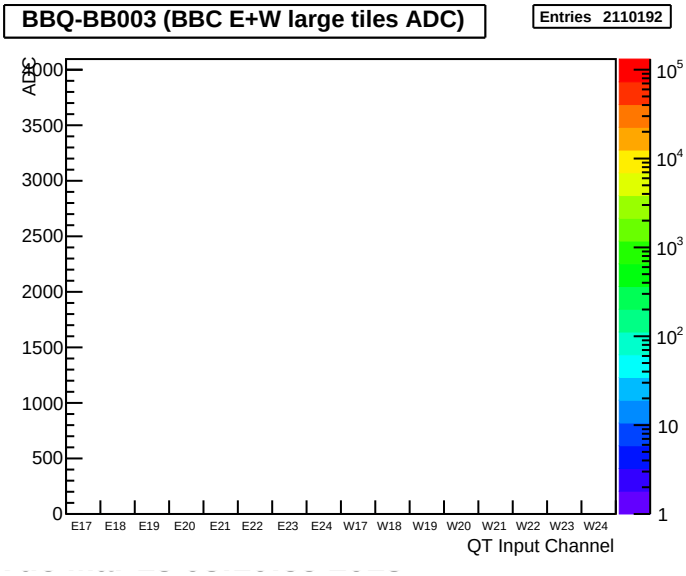

MXQ-PP001
Entries 2110192
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
1
10

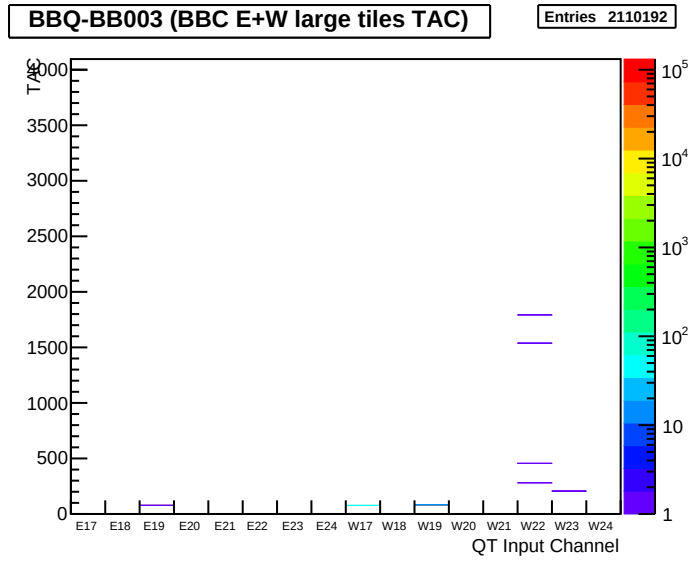

BBQ-BB001 (BBC east small tiles ADC)
Entries 2110192
ADC
QT Input Channel

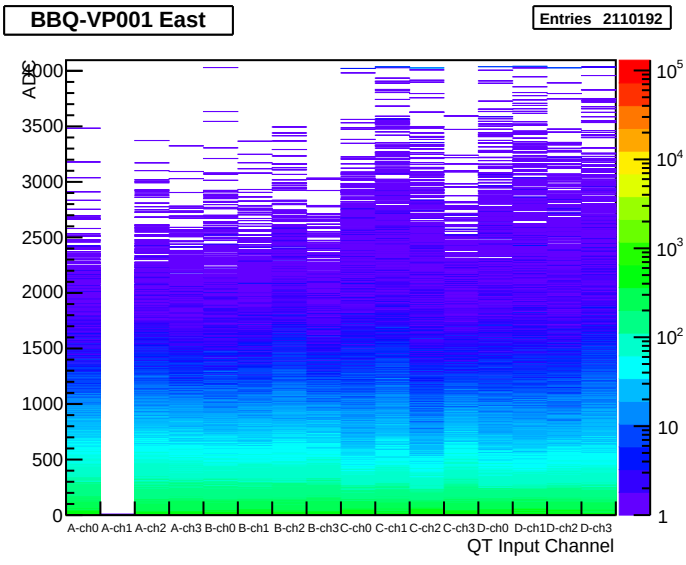

BBQ-BB001 (BBC east small tiles TAC)
Entries 2110192
TAC
QT Input Channel

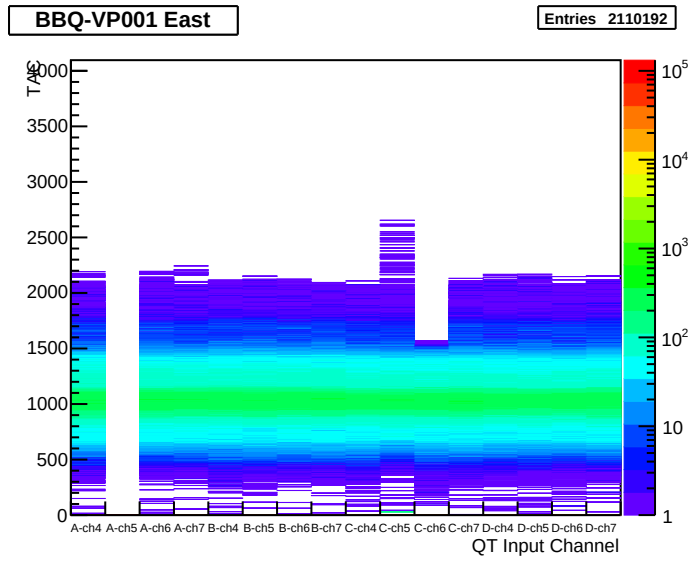

BBQ-BB002 (BBC west small tiles ADC)
Entries 2110192
ADC
QT Input Channel

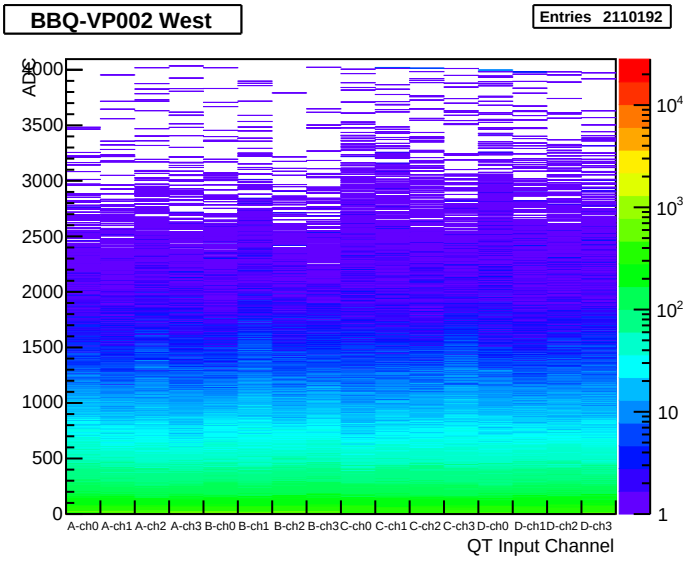

BBQ-BB002 (BBC west small tiles TAC)
Entries 2110192
TAC
QT Input Channel

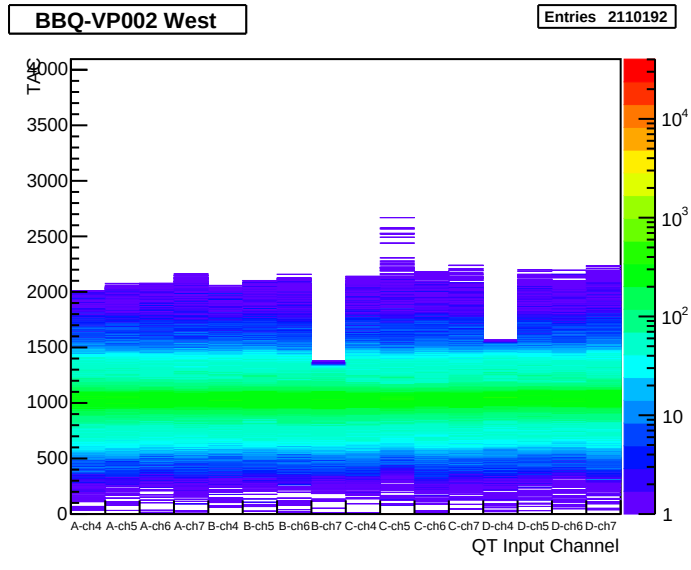

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2110192
ADC
QT Input Channel

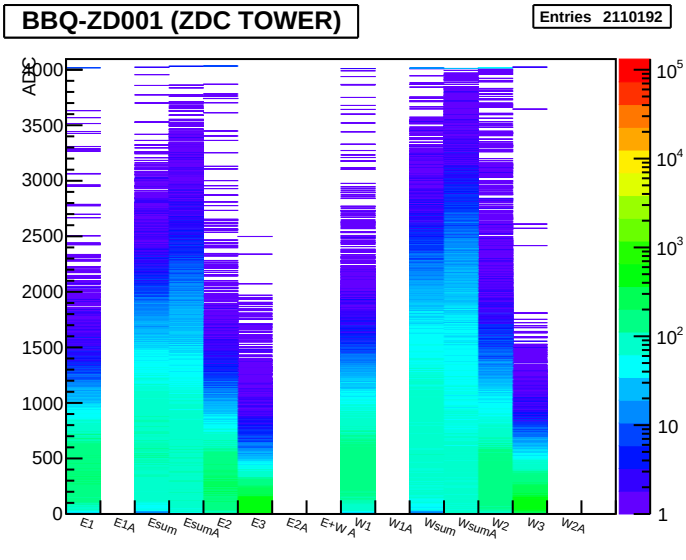

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2110192
TAC
QT Input Channel

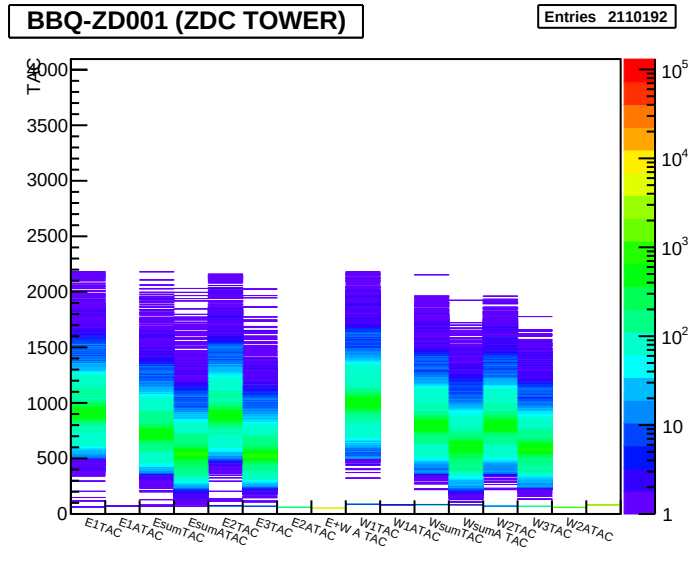

BBQ-VP001 East
Entries 2110192
ADC
QT Input Channel

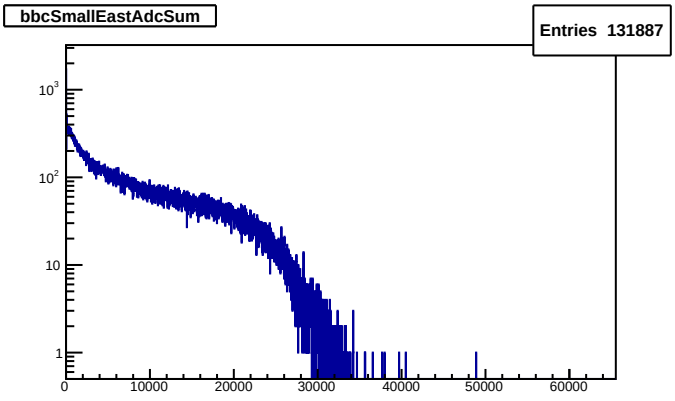

BBQ-VP001 East
Entries 2110192
TAC
QT Input Channel

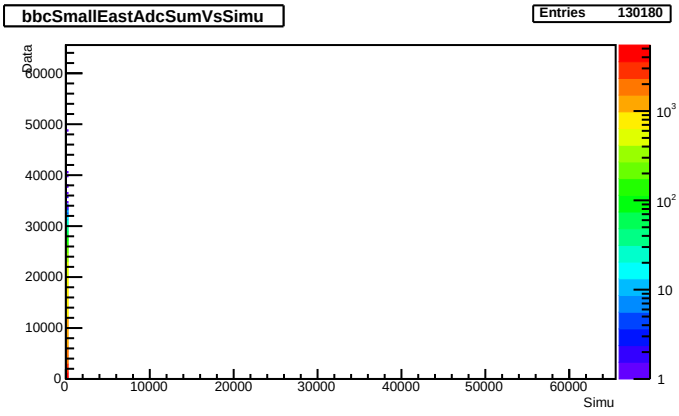

BBQ-VP002 West
Entries 2110192
ADC
QT Input Channel

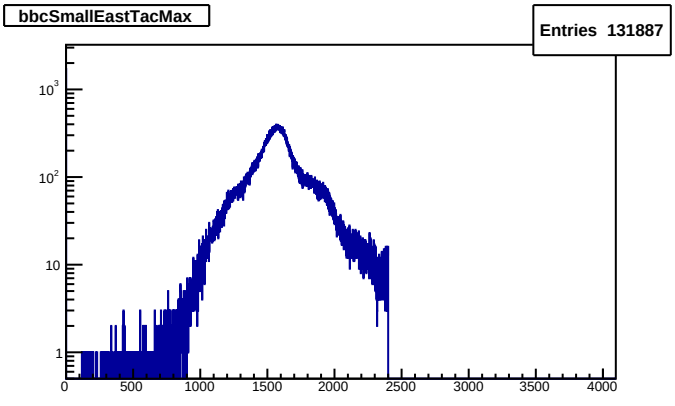

BBQ-VP002 West
Entries 2110192
TAC
QT Input Channel

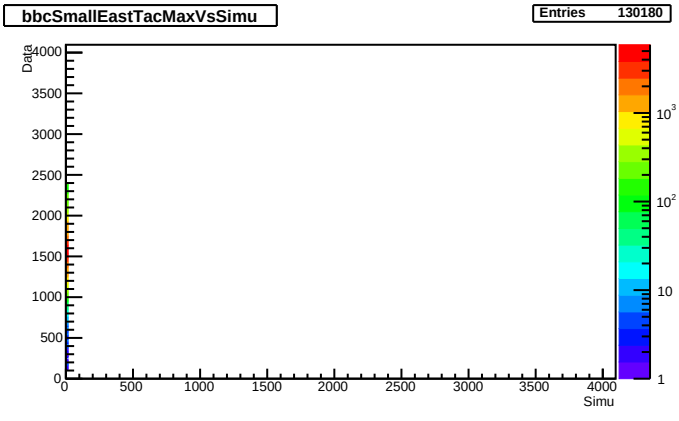

BBQ-ZD001 (ZDC TOWER)
Entries 2110192
ADC

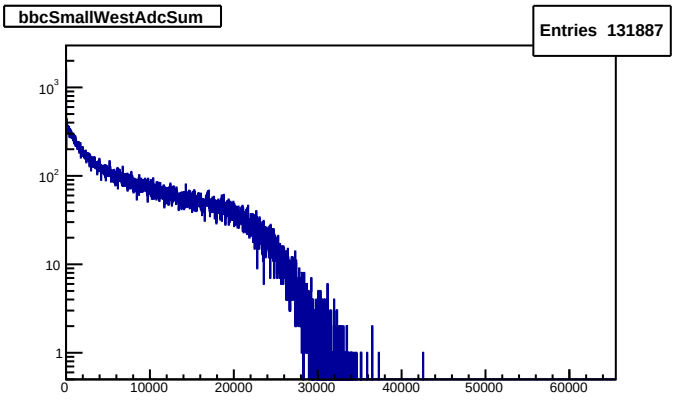

BBQ-ZD001 (ZDC TOWER)
Entries 2110192
TAC

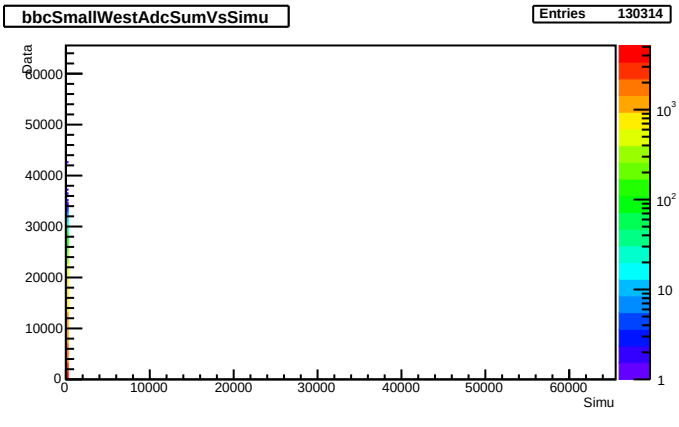

bbcSmallEastAdcSum
Entries 131887

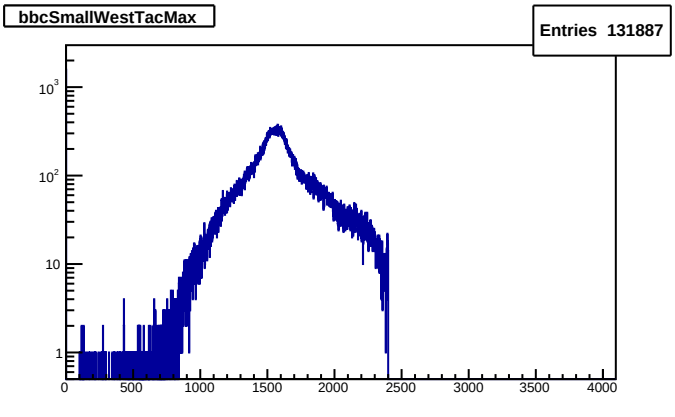

bbcSmallEastAdcSumVsSimu
Entries 130180
Data
Simu

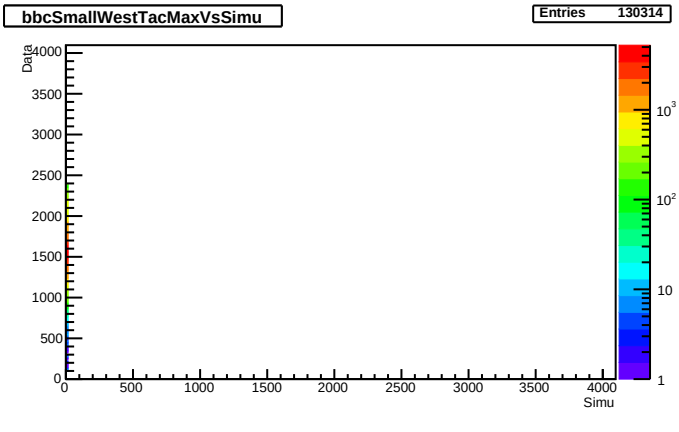

bbcSmallEastTacMax
Entries 131887

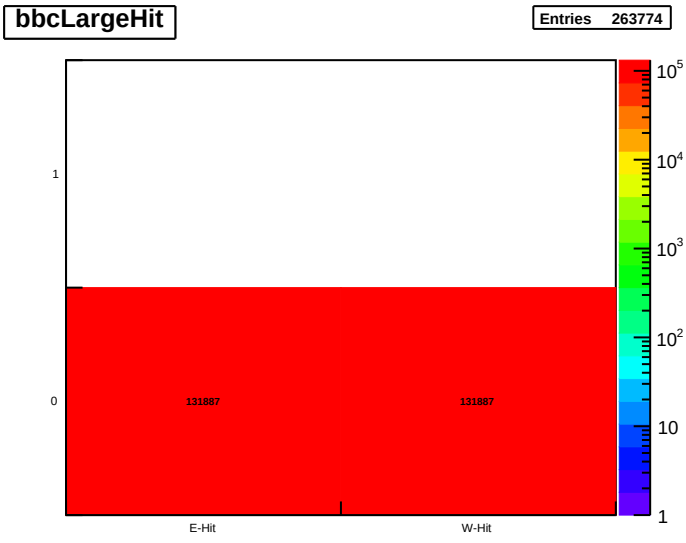

bbcSmallEastTacMaxVsSimu
Entries 130180
Data
Simu

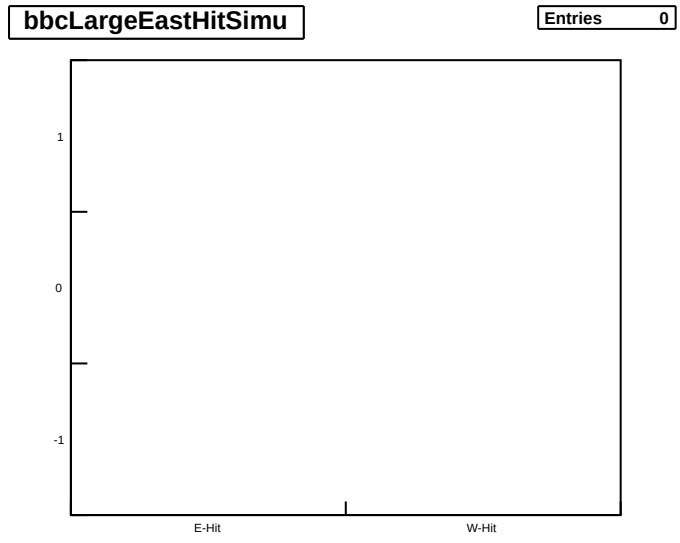

bbcSmallWestAdcSum
Entries 131887

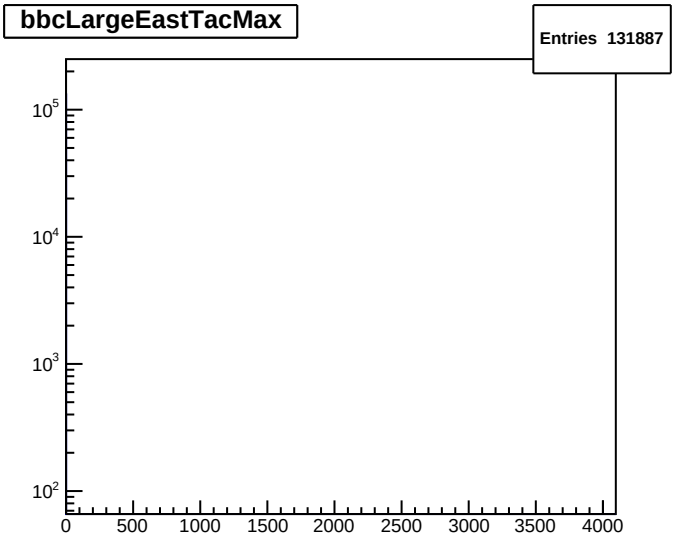

bbcSmallWestAdcSumVsSimu
Entries 130314
Data
Simu

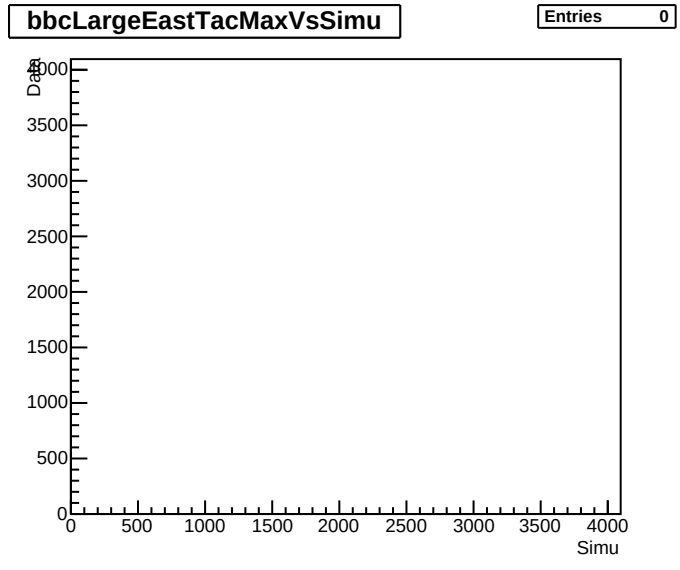

bbcSmallWestTacMax
Entries 131887

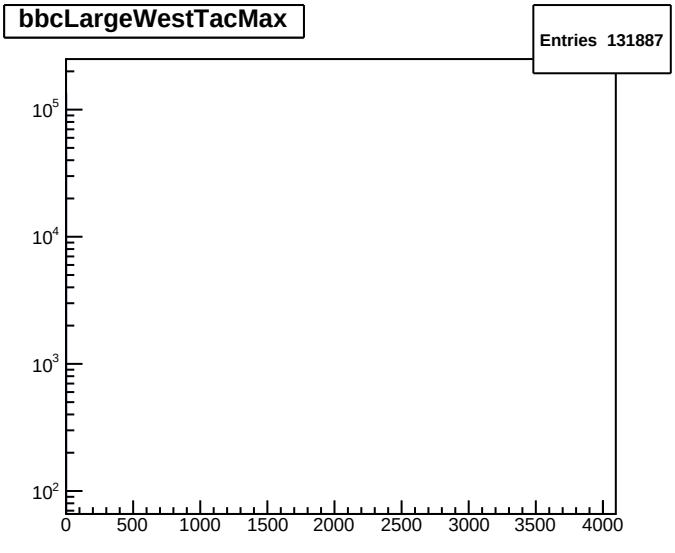

bbcSmallWestTacMaxVsSimu
Entries 130314
Data
Simu

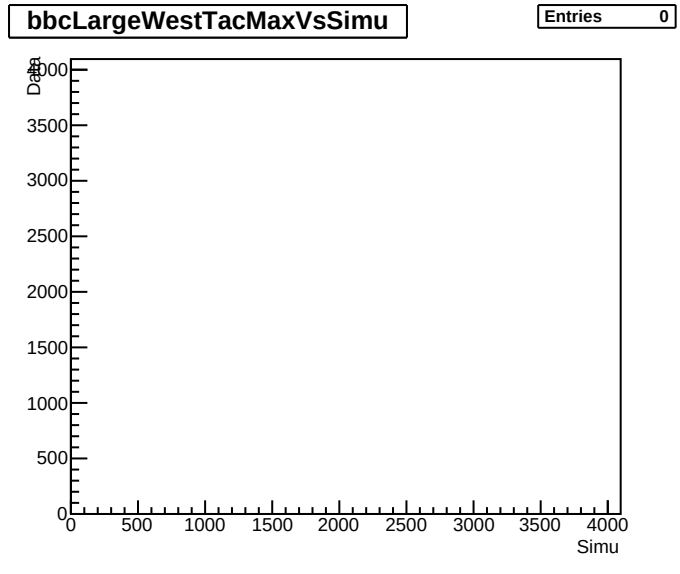

bbcLargeHit
Entries 263774
131887
131887
E-Hit
W-Hit

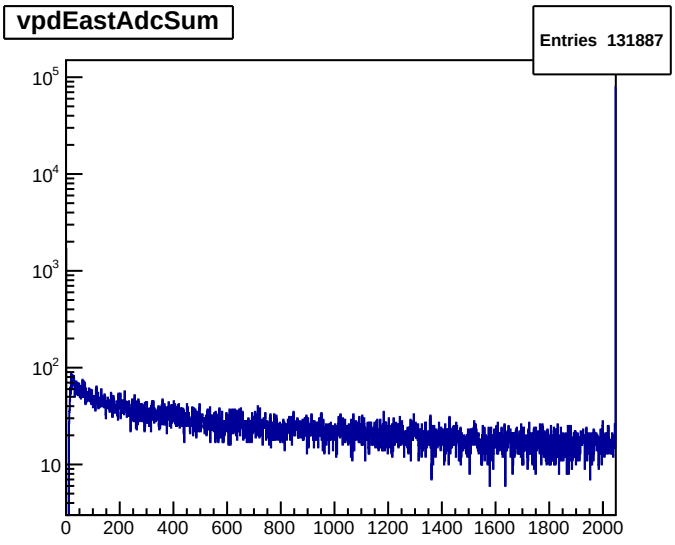

bbcLargeEastHitSimu
Entries 0
E-Hit
W-Hit

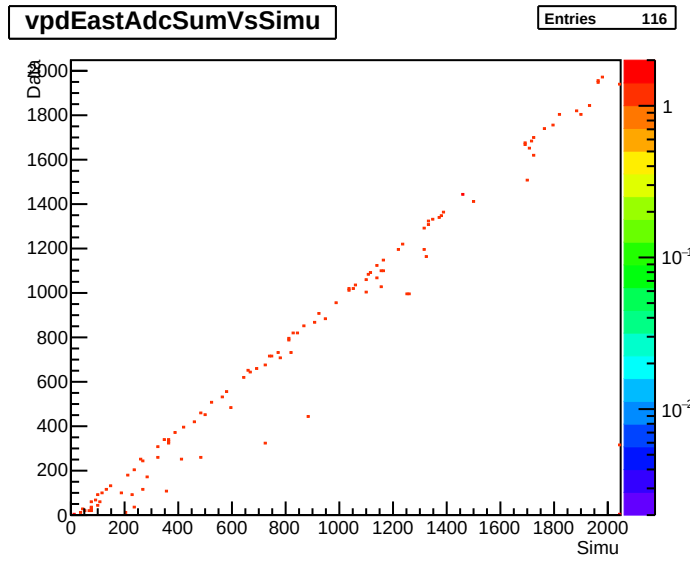

bbcLargeEastTacMax
Entries 131887

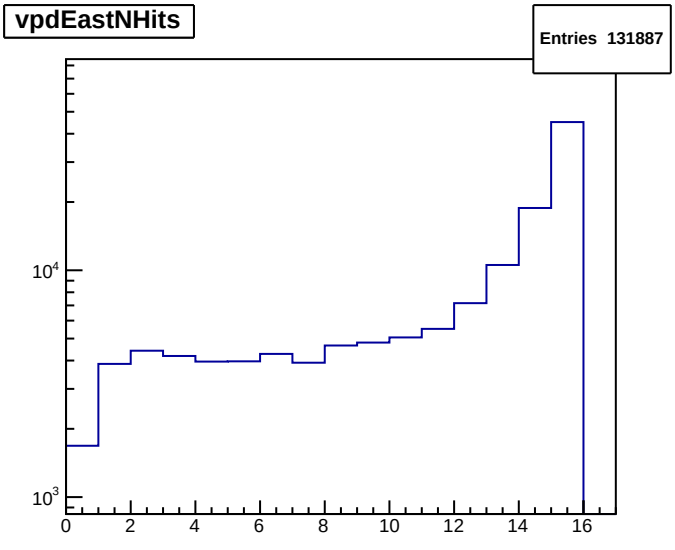

bbcLargeEastTacMaxVsSimu
Entries 0
Data
Simu

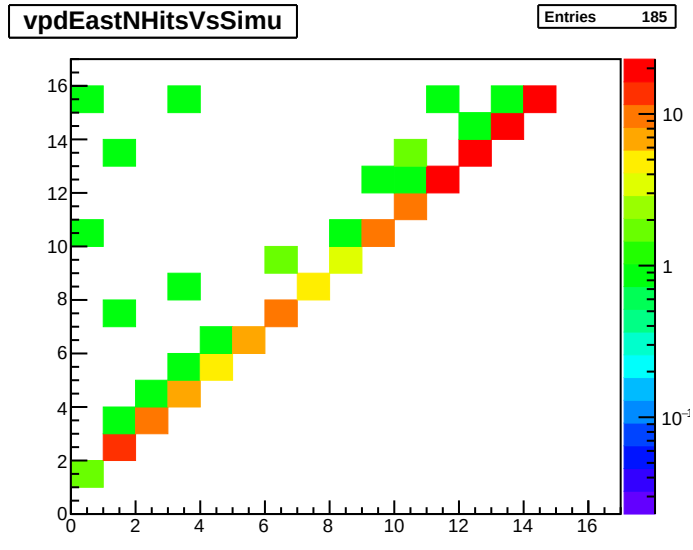

bbcLargeWestTacMax
Entries 131887

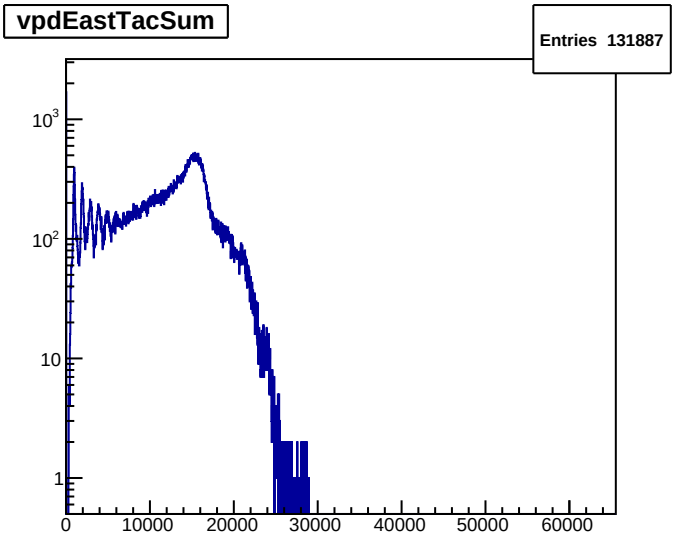

bbcLargeWestTacMaxVsSimu
Entries 0
Data
Simu

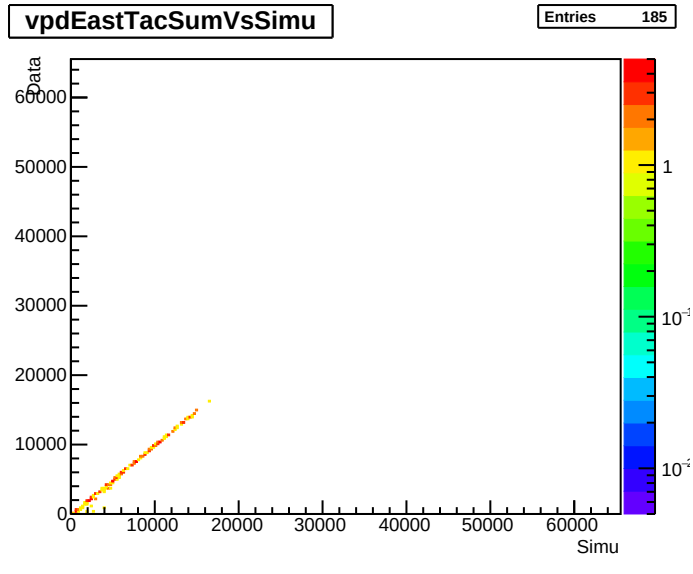

vpdEastAdcSum
Entries 131887

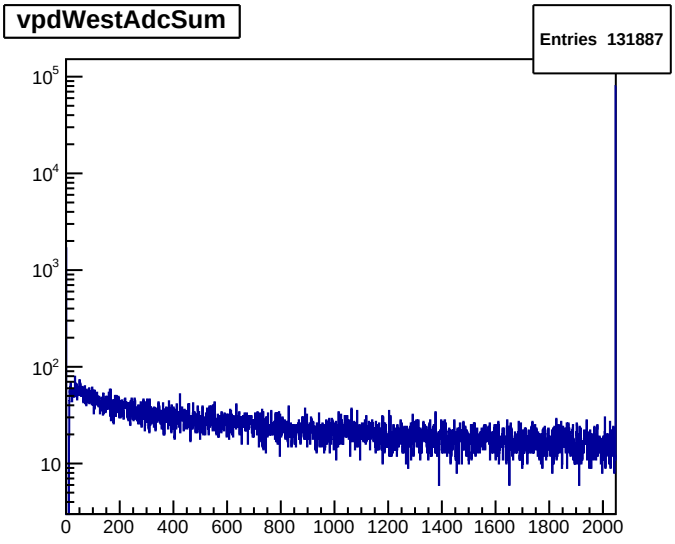

vpdEastAdcSumVsSimu
Entries 116
Data
Simu

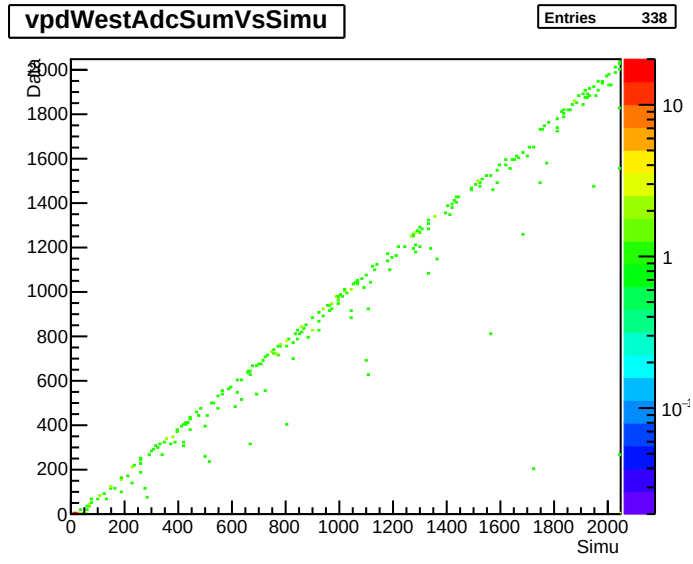

vpdEastNHits
Entries 131887

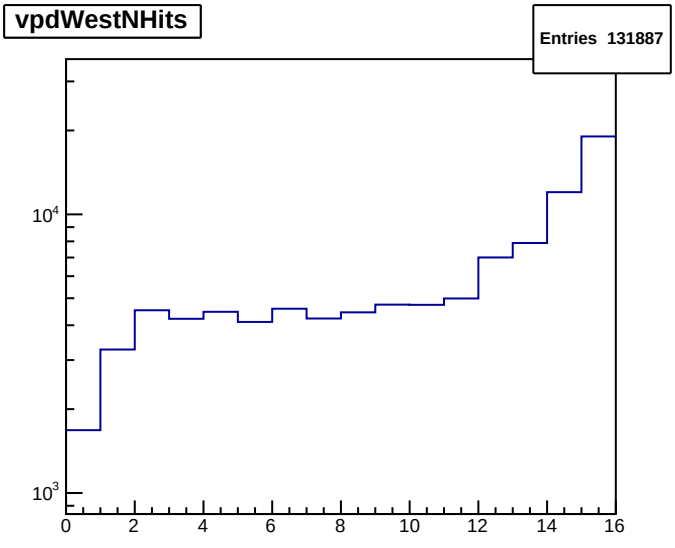

vpdEastNHitsVsSimu
Entries 185

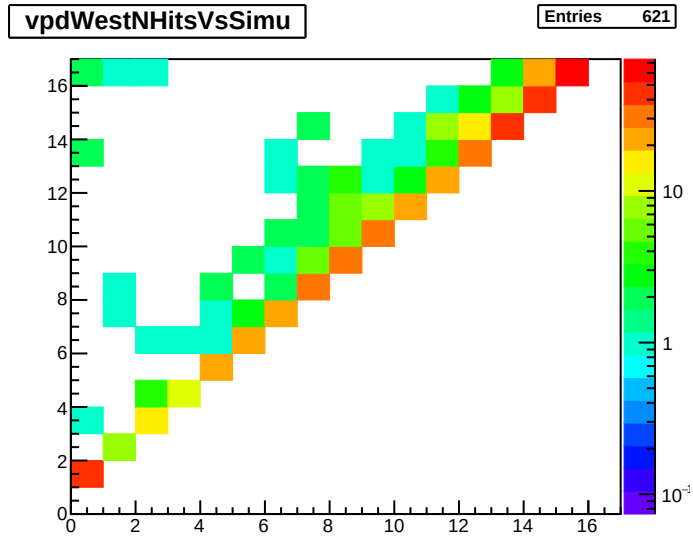

vpdEastTacSum
Entries 131887

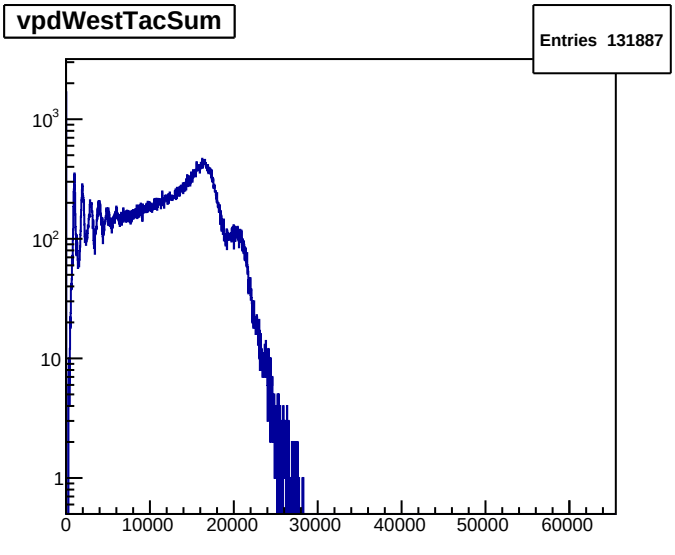

vpdEastTacSumVsSimu
Entries 185
Data
Simu

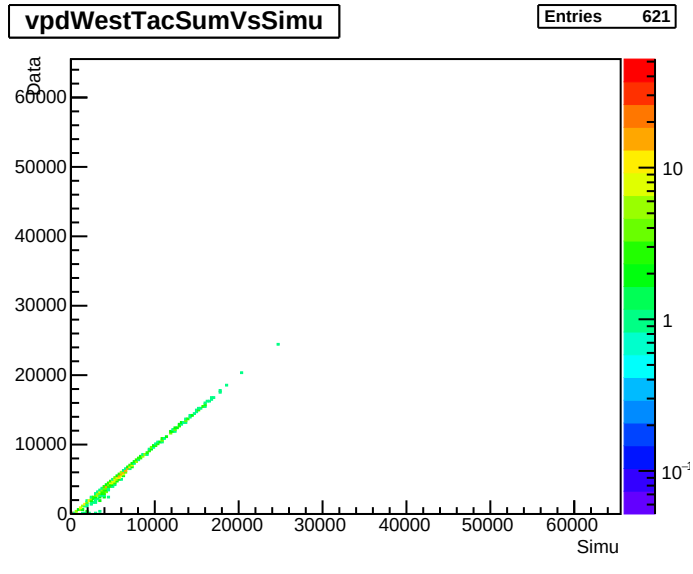

vpdWestAdcSum
Entries 131887

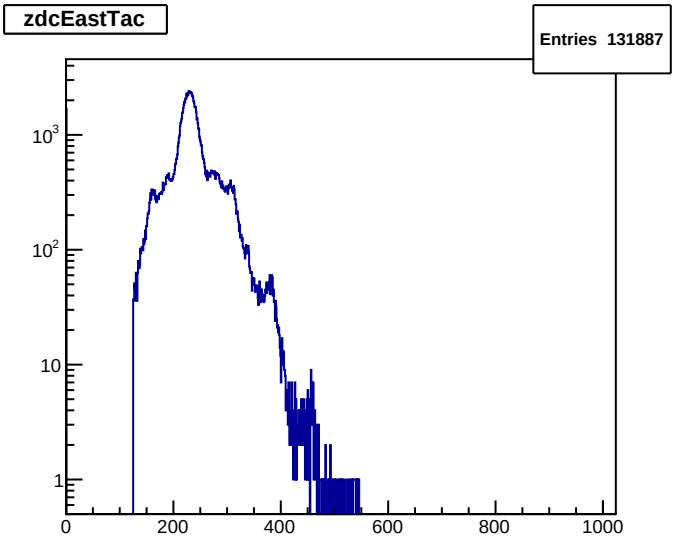

vpdWestAdcSumVsSimu
Entries 338
Data
Simu

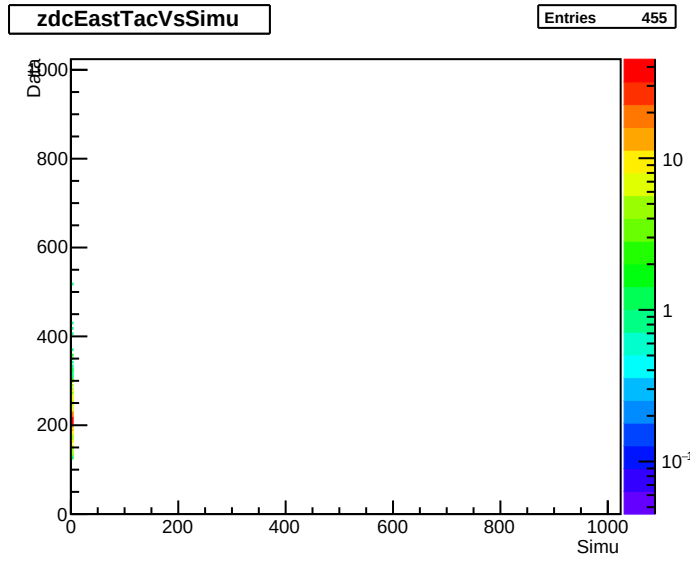

vpdWestNHits
Entries 131887

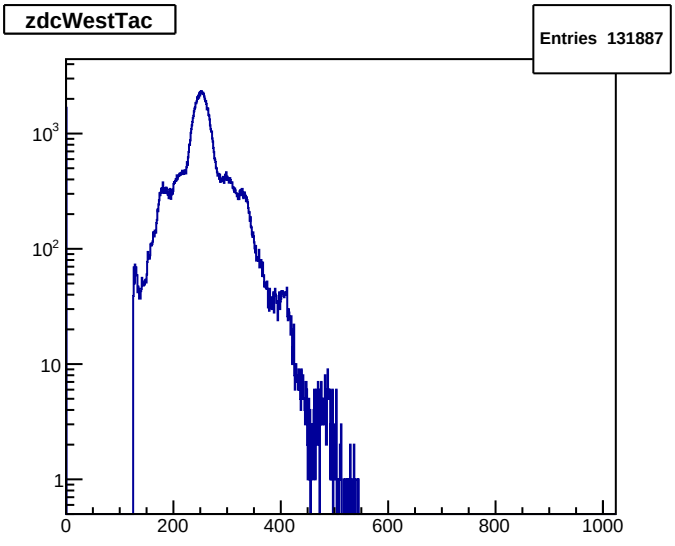

vpdWestNHitsVsSimu
Entries 621

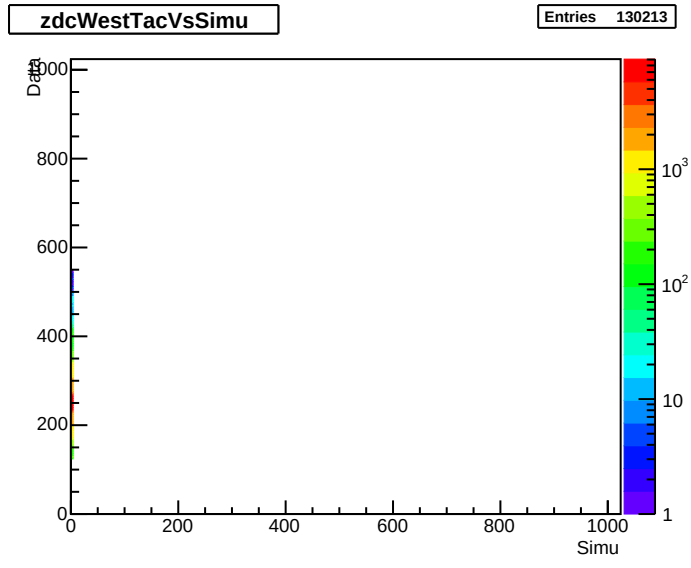

vpdWestTacSum
Entries 131887

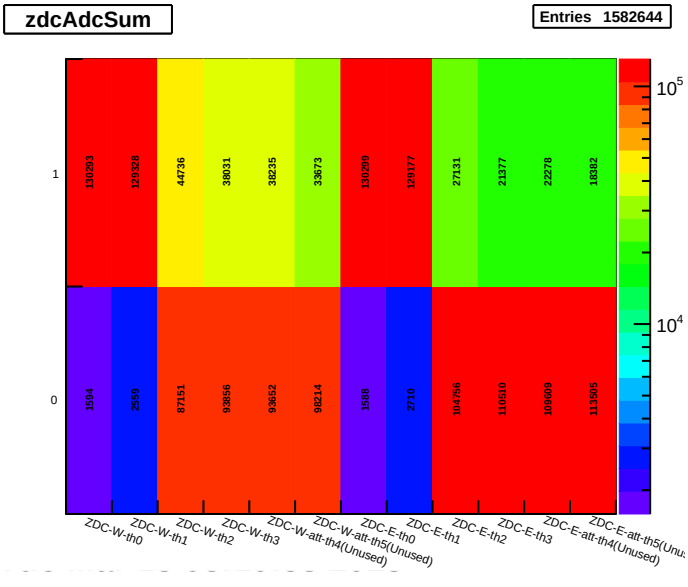

vpdWestTacSumVsSimu
Entries 621
Data
Simu

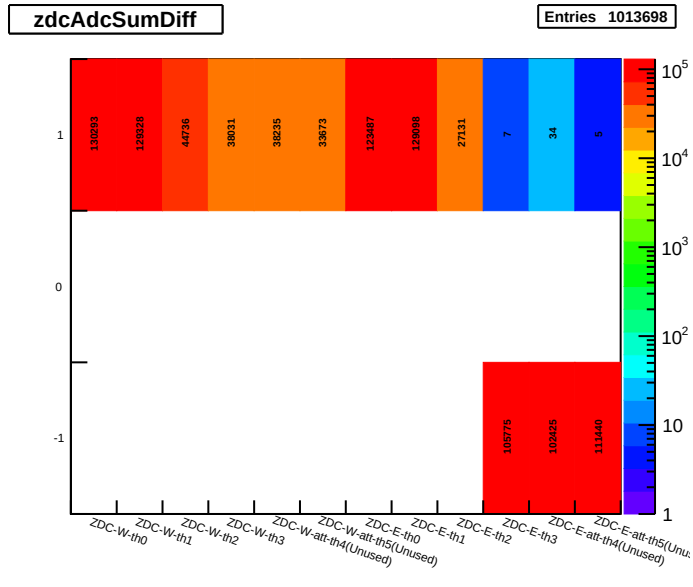

zdcEastTac
Entries 131887

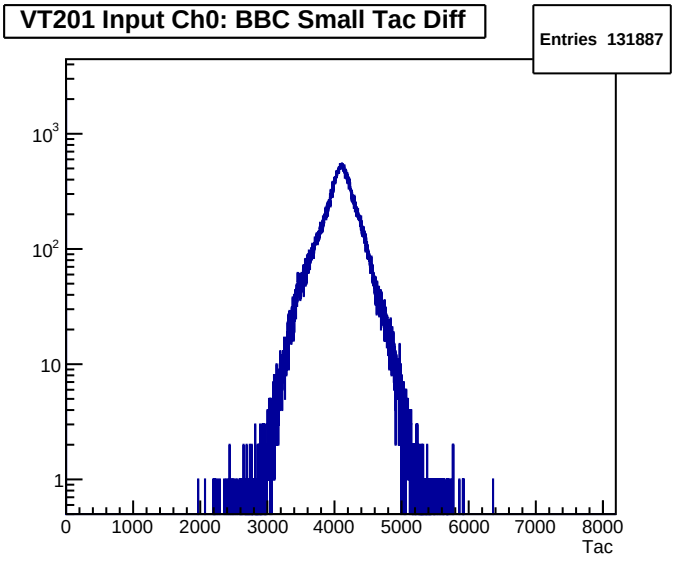

zdcEastTacVsSimu
Entries 455
Data
Simu

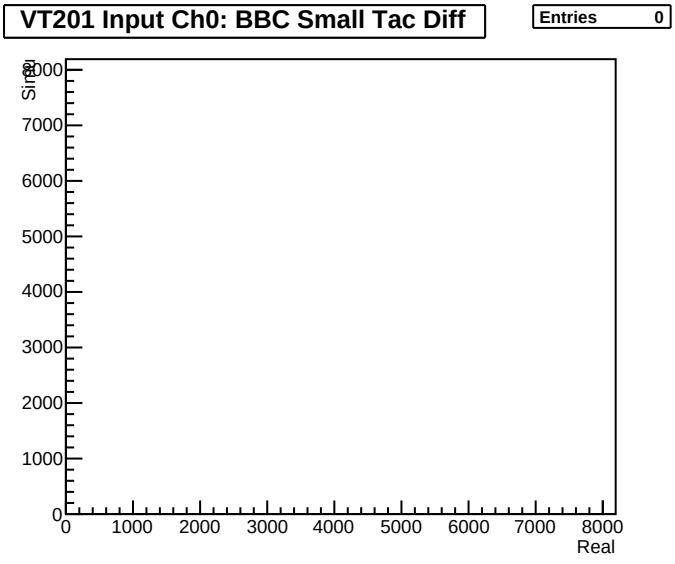

zdcWestTac
Entries 131887

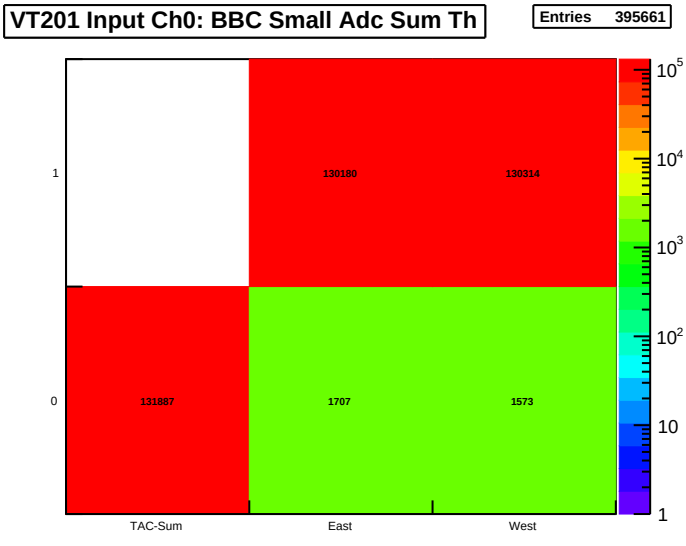

zdcWestTacVsSimu
Entries 130213
Data
Simu

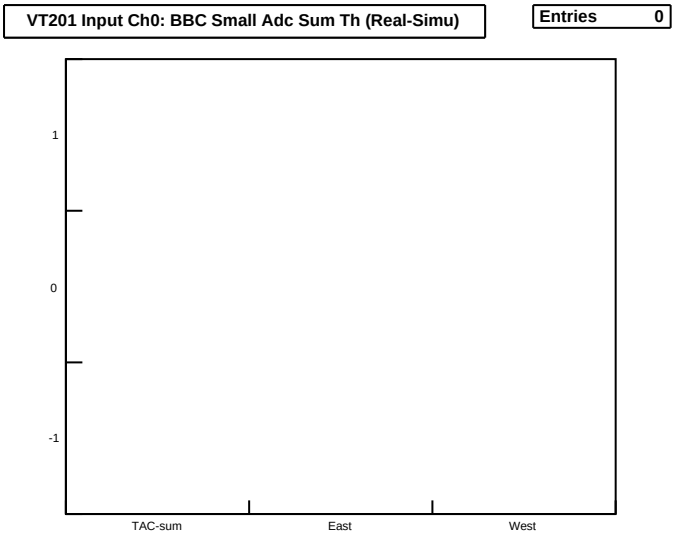

zdcAdcSum
Entries 1582644
130293
129328
44736
38031
38235
33673
130299
129177
27131
21377
22278
18382
1594
2559
87151
93856
93652
98214
1588
2710
104756
110510
109609
113505
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

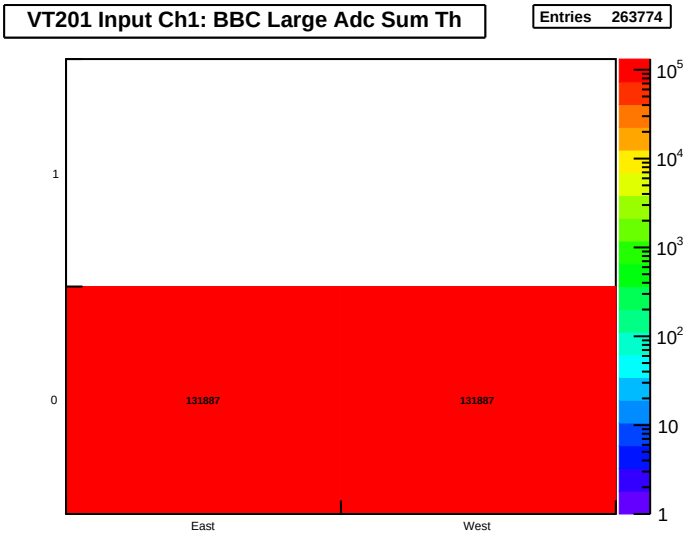

zdcAdcSumDiff
Entries 1013698
130293
129328
44736
38031
38235
33673
129487
129098
27131
7
34
5
105775
102425
111440
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

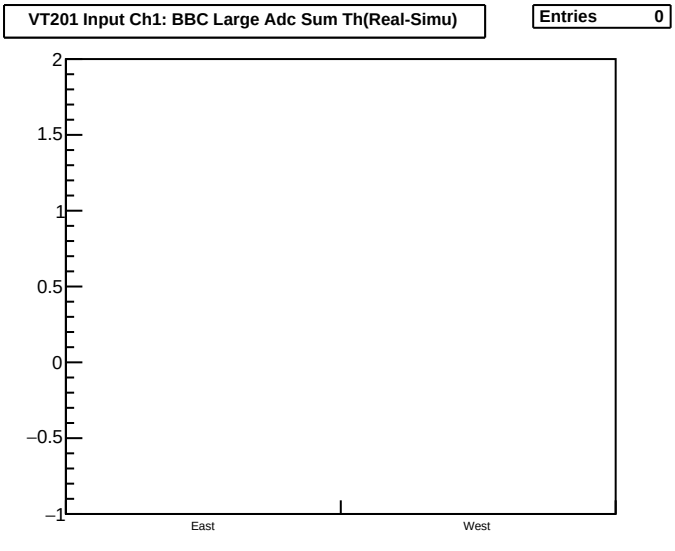

VT201 Input Ch0: BBC Small Tac Diff
Entries 131887
Tac


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

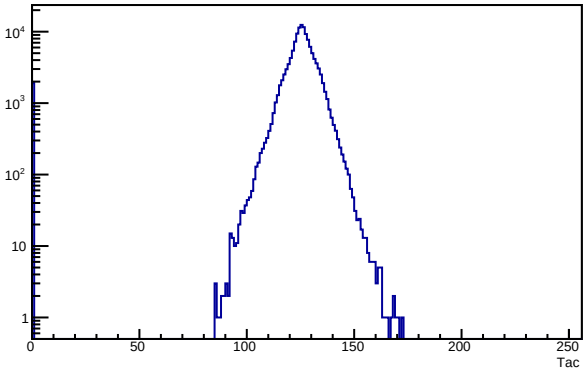

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 395661
130180
130314
131887
1707
1573
TAC-Sum
East
West


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

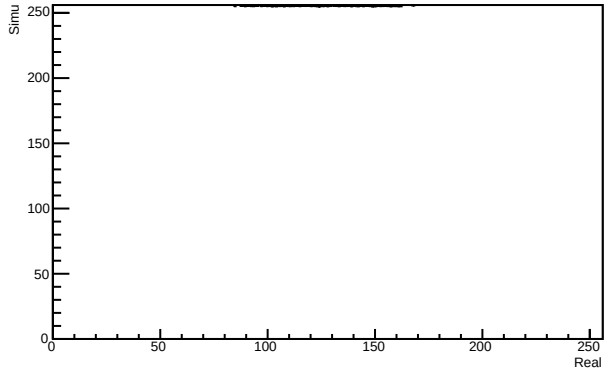

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 263774
131887
131887
East
West


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

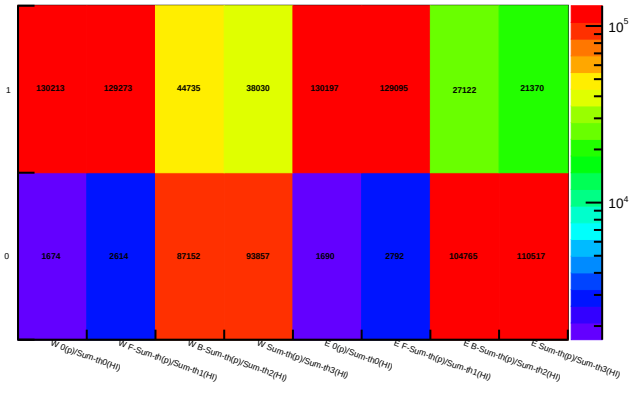
VT201 Input Ch2: ZDC Tac Diff



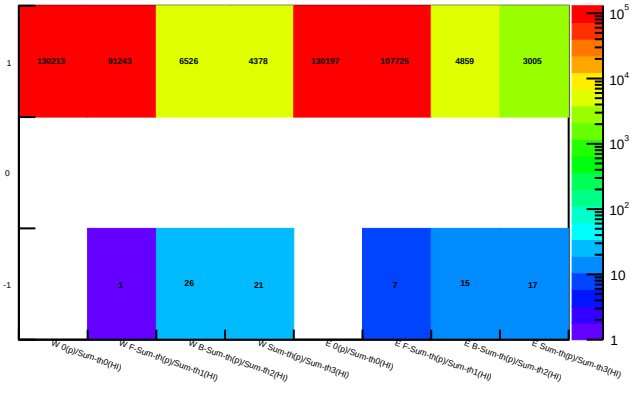
VT201 Input Ch2: ZDC Tac Diff



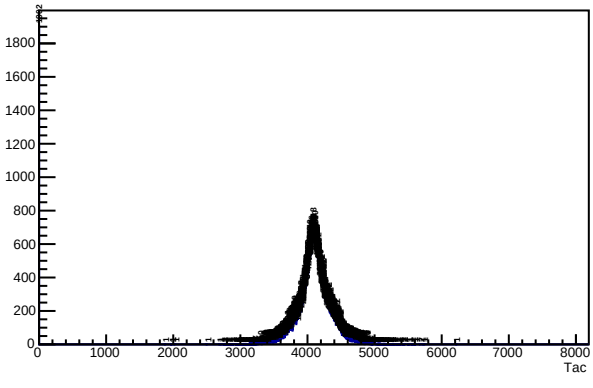
VT201 Input Ch2: ZDC Adc Sum Th



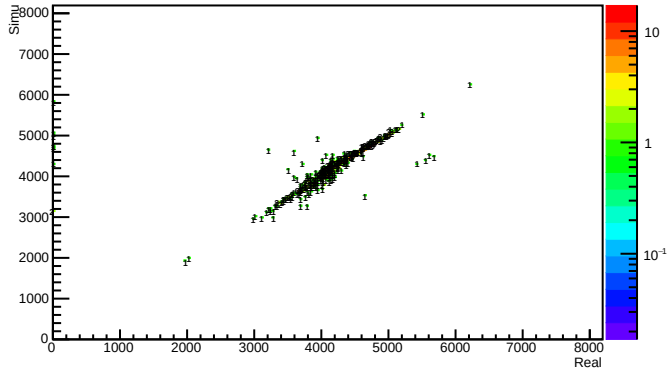
VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)



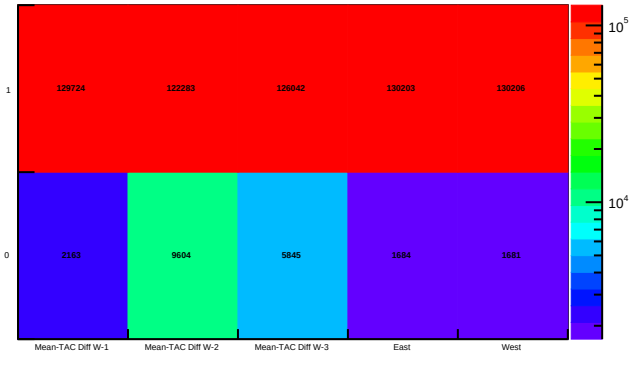
VT201 Input Ch4: VPD Tac Diff



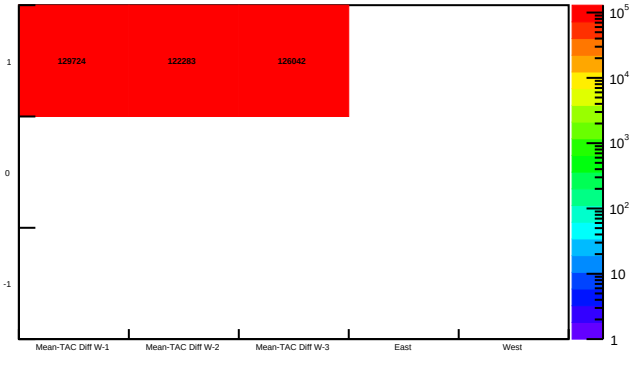
VT201 Input Ch4: VPD Tac Diff

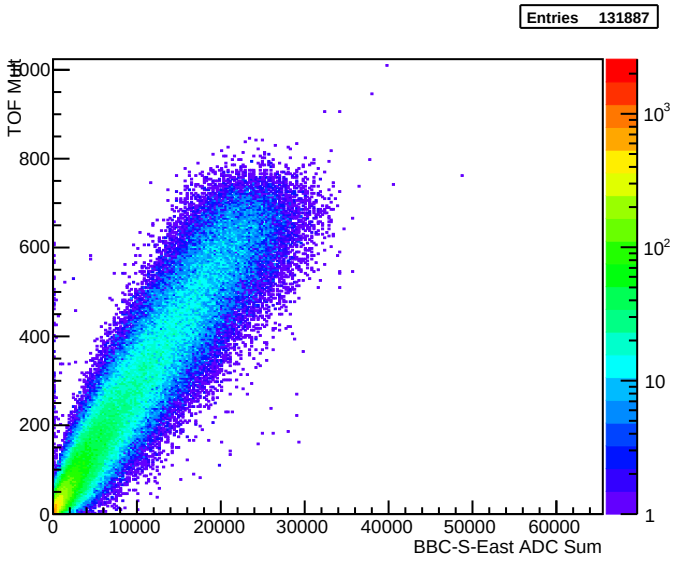


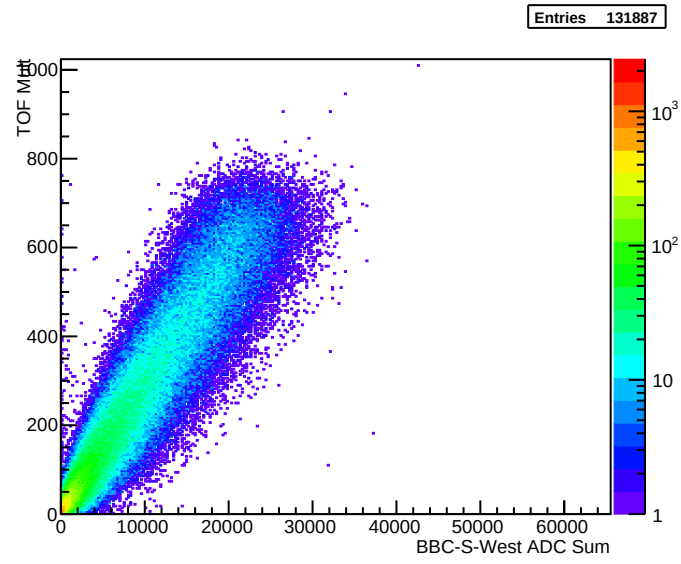
VT201 Input Ch4: VPD Adc Sum Th

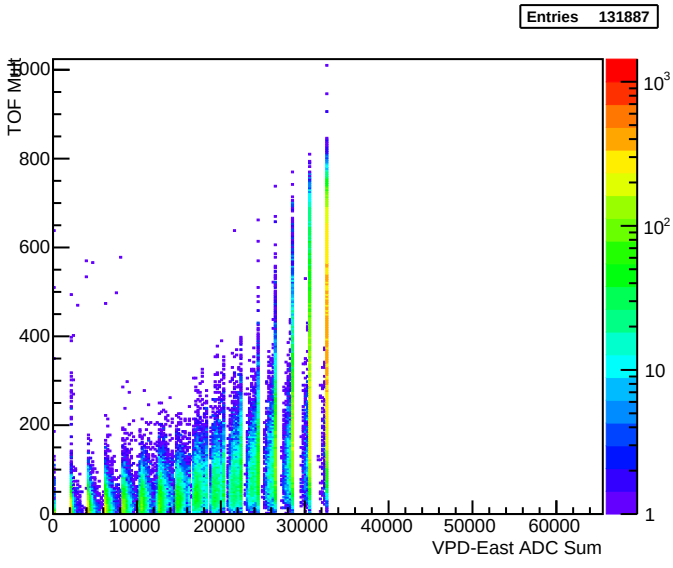


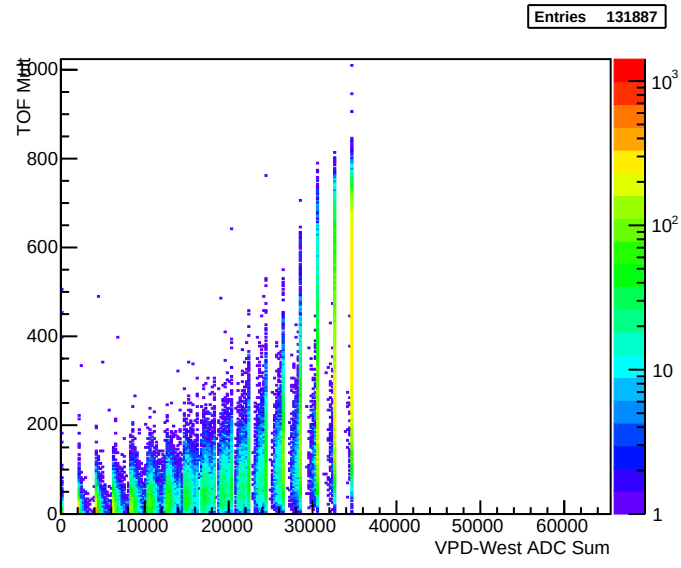
VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)

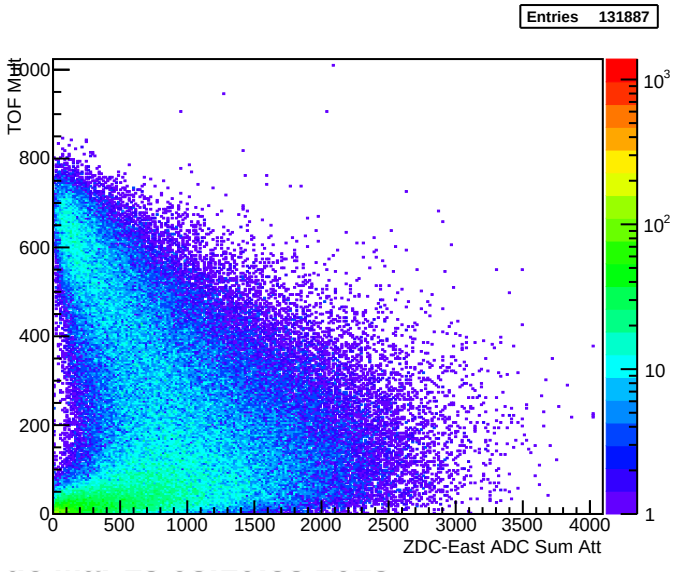


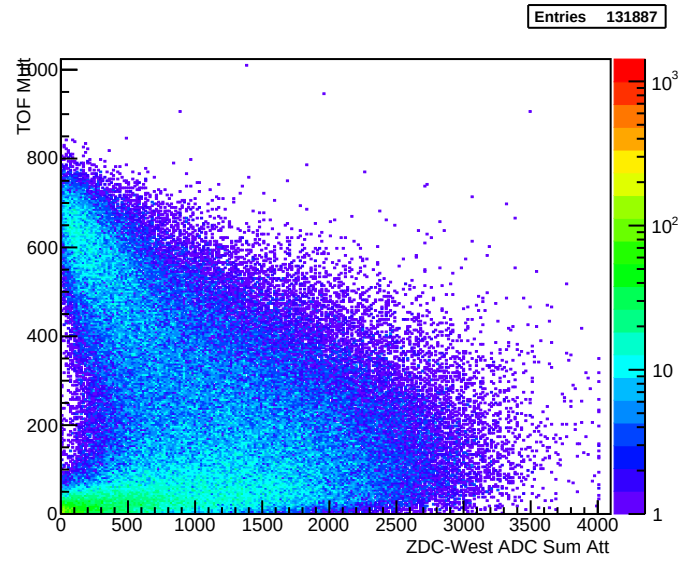

Entries 131887
TOF Mult
BBC-S-East ADC Sum

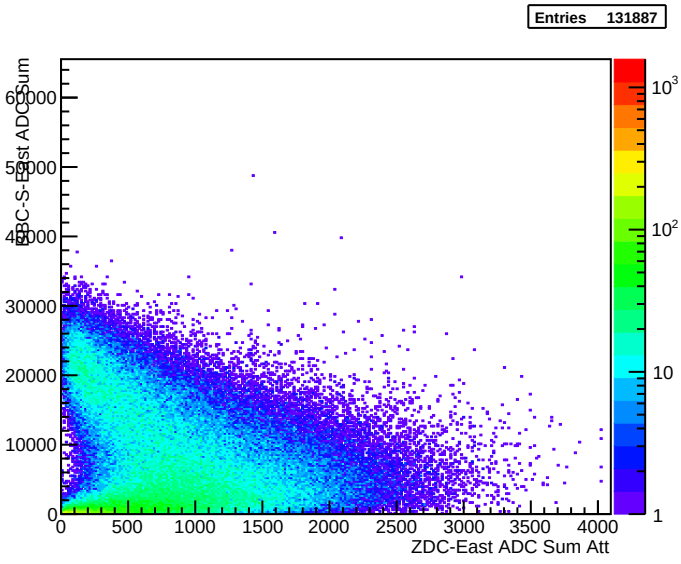

Entries 131887
TOF Mult
BBC-S-West ADC Sum

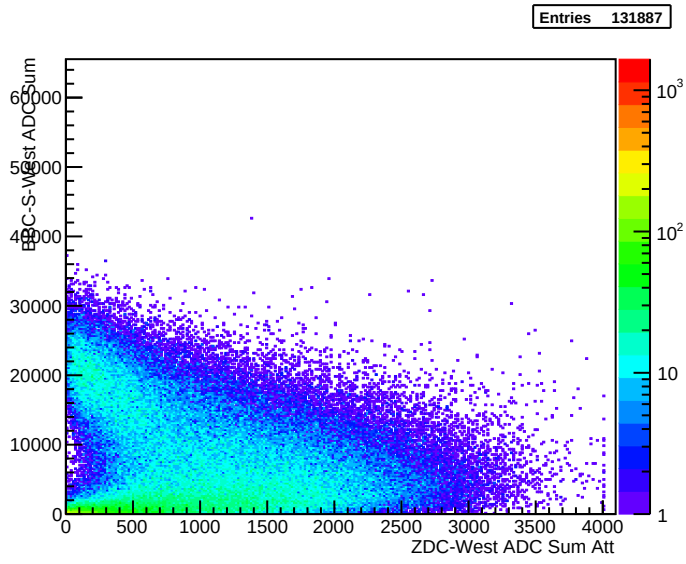

Entries 131887
TOF Mult
VPD-East ADC Sum

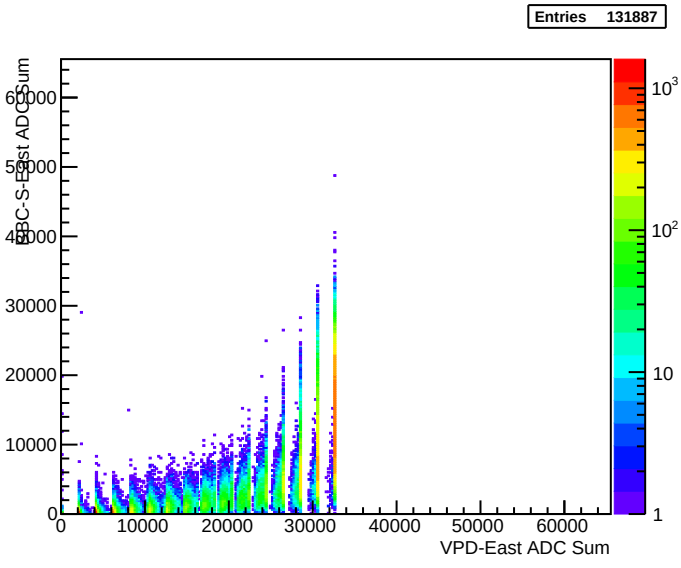

Entries 131887
TOF Mult
VPD-West ADC Sum

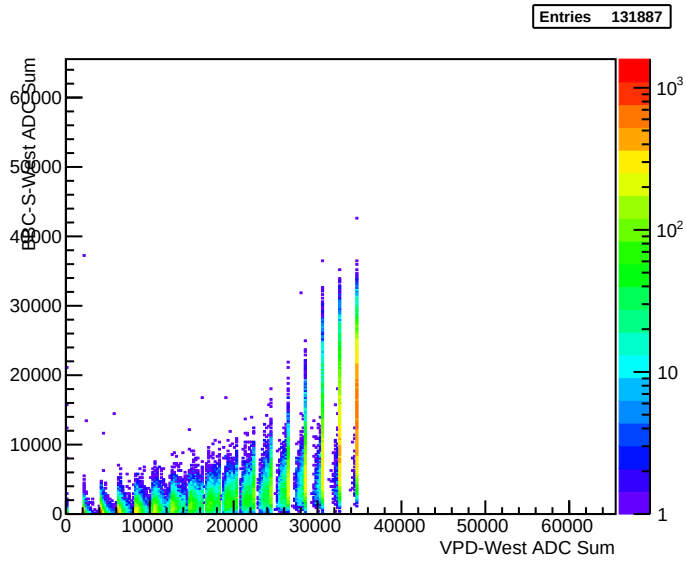

Entries 131887
TOF Mult
ZDC-East ADC Sum Att

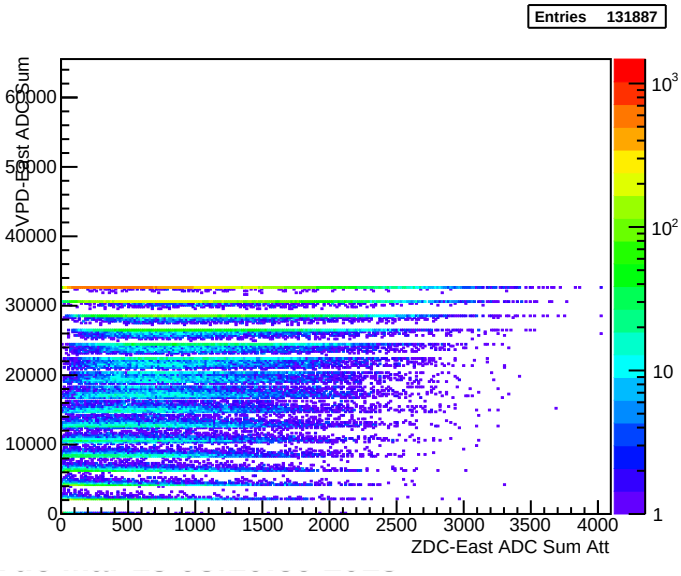

Entries 131887
TOF Mult
ZDC-West ADC Sum Att

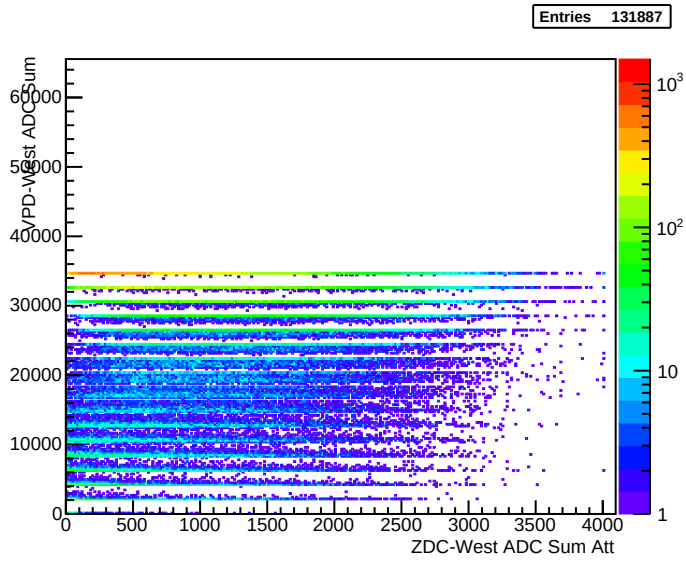

Entries 131887
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

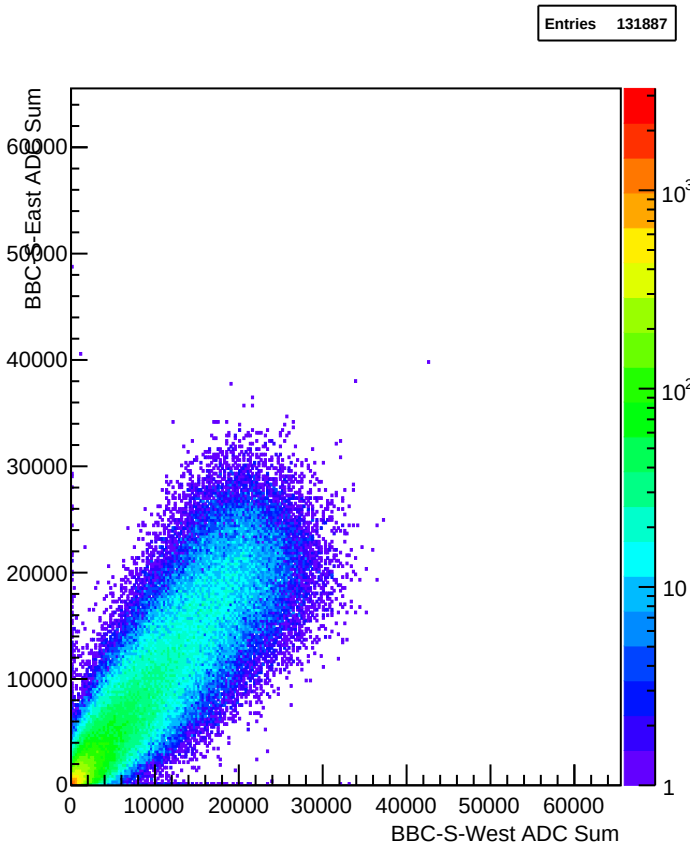

Entries 131887
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

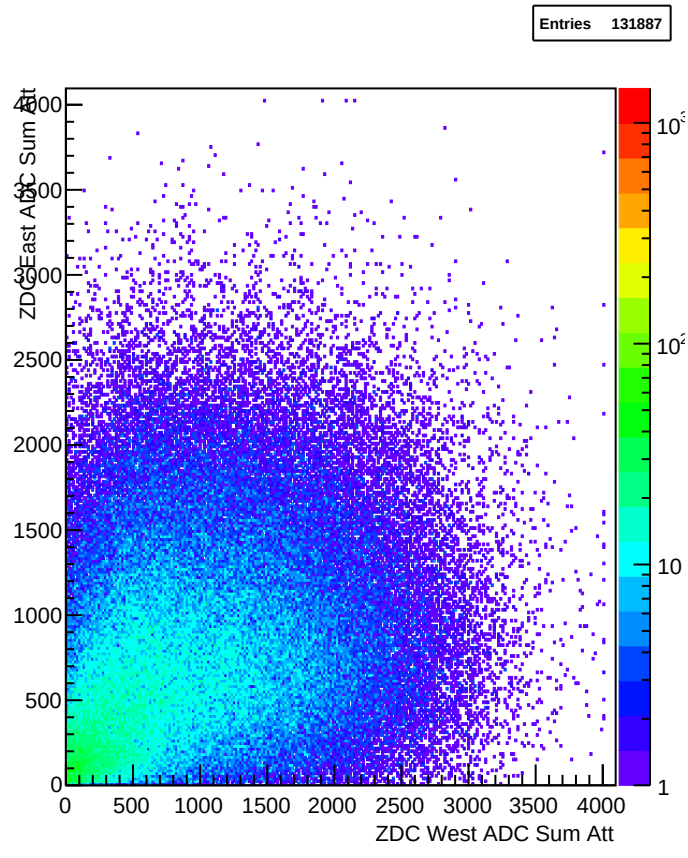

Entries 131887
BBC-S-East ADC Sum
VPD-East ADC Sum

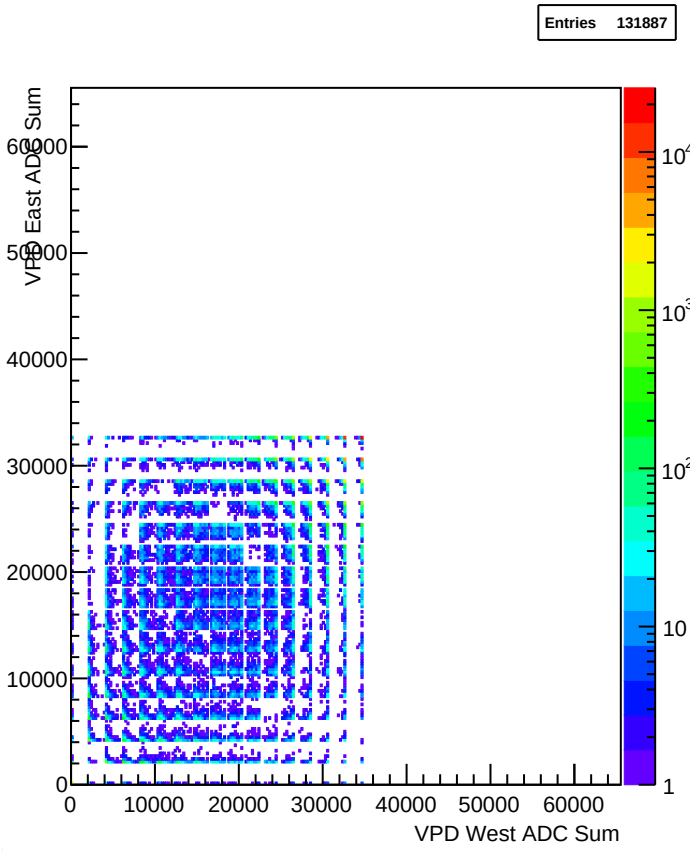

Entries 131887
BBC-S-West ADC Sum
VPD-West ADC Sum

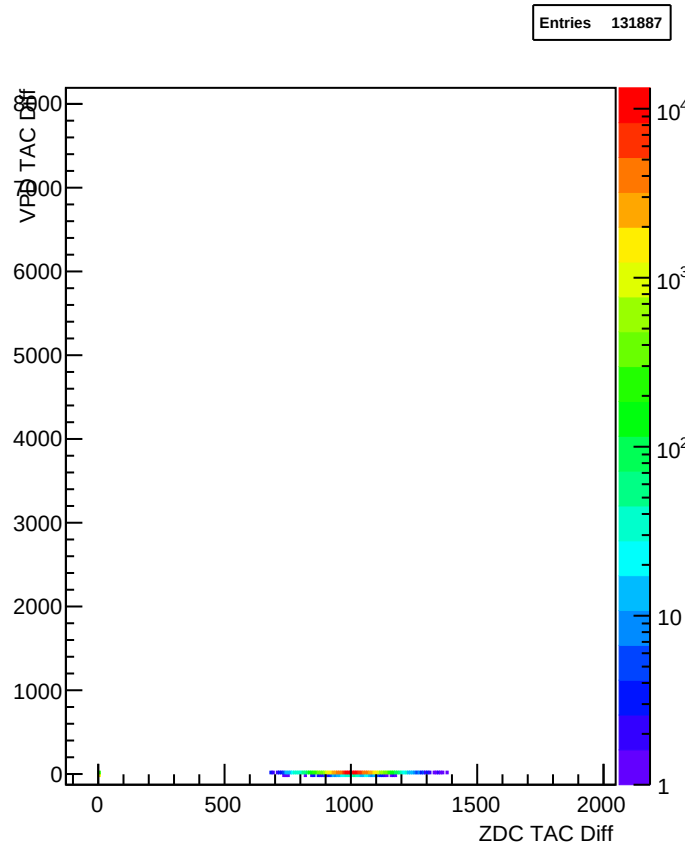

Entries 131887
VPD-East ADC Sum
ZDC-East ADC Sum Att

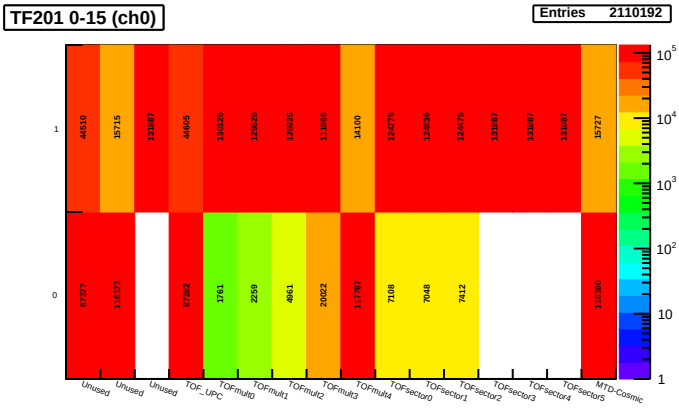

Entries 131887
VPD-West ADC Sum
ZDC-West ADC Sum Att

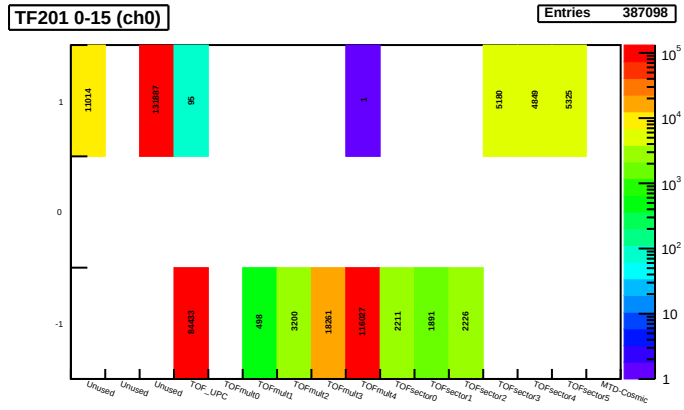

Entries 131887
BBC-S-East ADC Sum
BBC-S-West ADC Sum

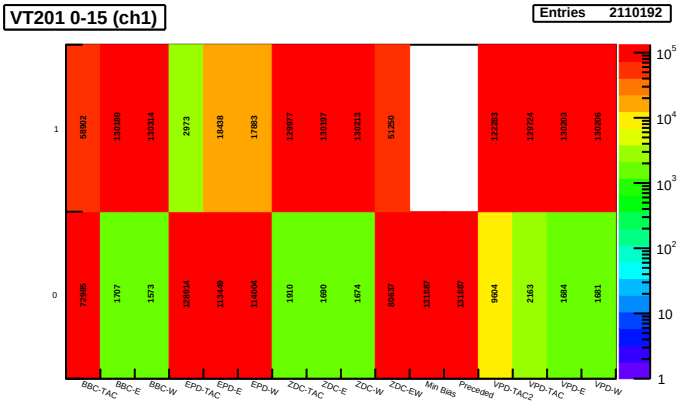

Entries 131887
ZDC East ADC Sum Att
ZDC West ADC Sum Att

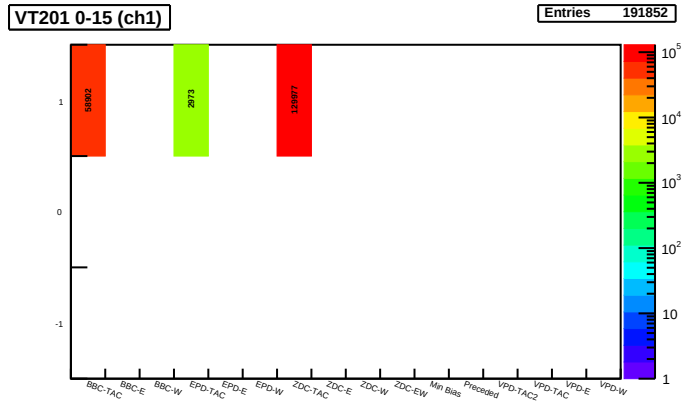

Entries 131887
VPD East ADC Sum
VPD West ADC Sum


Entries 131887
VPD TAC Diff
ZDC TAC Diff


TF201 0-15 (ch0)
Entries 2110192
44510 15715 131837 44605 130126 129628 129626 111865 14100 124779 124839 124475 131837 131837 131837 15727
87377 116172 87282 1761 2259 4961 20022 117787 7108 7048 7412 116360
Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 387098
11014 131837 95 1 5130 4849 5325
84453 498 3200 18361 116027 2211 1891 2226
Unused Unused Unused TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2110192
58902 130180 130314 2973 19408 17883 129977 130197 130213 51250 122293 129724 130203 130286
72985 1707 1573 128914 113449 114004 1810 1690 1674 80657 131887 131887 9604 2163 1684 1681
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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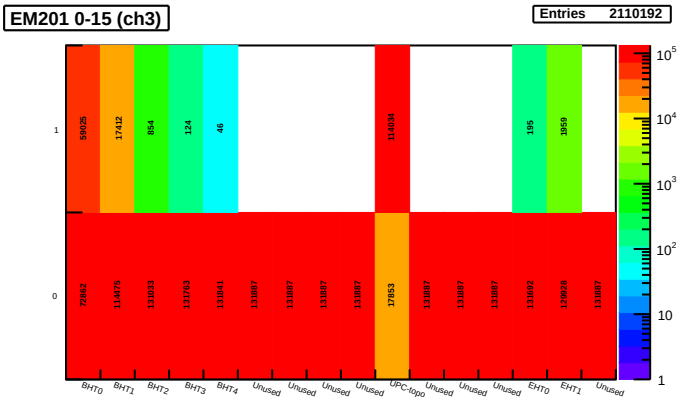
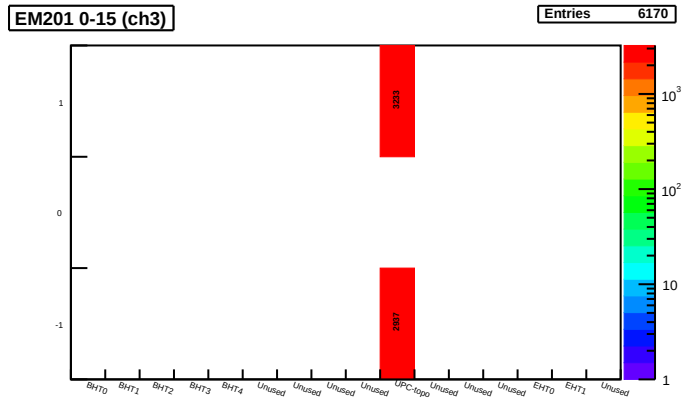
Entries 191852
58902 2973 129977
BBC-TAC BBC-E BBC-W EPD-TAC EPD-E EPD-W ZDC-TAC ZDC-E ZDC-W ZDC-EW Min Bias Preceded VPD-TAC2 VPD-TAC VPD-E VPD-W


EM201 0-15 (ch3)
Entries 2110192
59025 17412 854 124 46 114034 195 1959
72862 114475 130133 131763 131841 131887 131887 131887 131887 17953 131887 131887 131887 131892 129928 131887
BHT0 BHT1 BHT2 BHT3 BHT4 Unused Unused Unused Unused UPC-topo Unused Unused Unused EHT0 EHT1 Unused


EM201 0-15 (ch3)
Entries 6170
3213
2937
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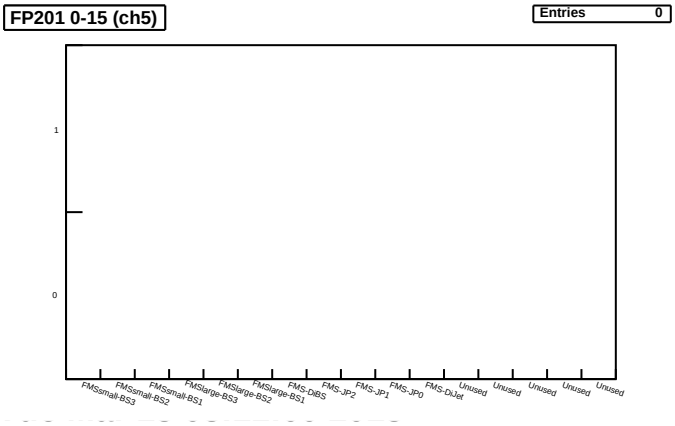
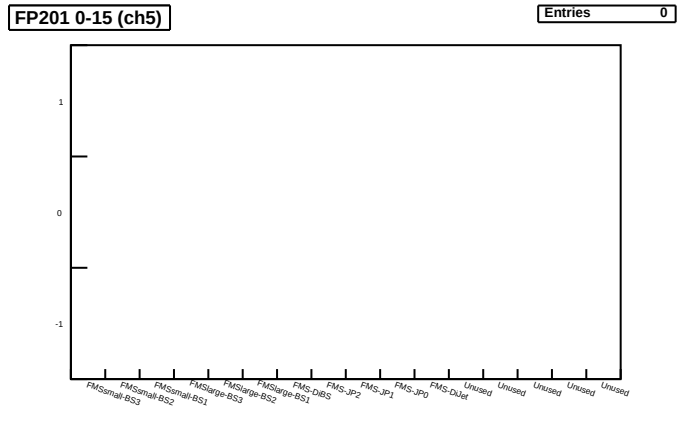

FP201 0-15 (ch5)
Entries 0
FMSsmall-BS3 FMSsmall-BS2 FMSsmall-BS1 FMSlarge-BS3 FMSlarge-BS2 FMSlarge-BS1 FMS-DiBS FMS-JP2 FMS-JP1 FMS-JP0 FMS-DiJet Unused Unused Unused Unused Unused


FP201 0-15 (ch5)
Entries 0
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