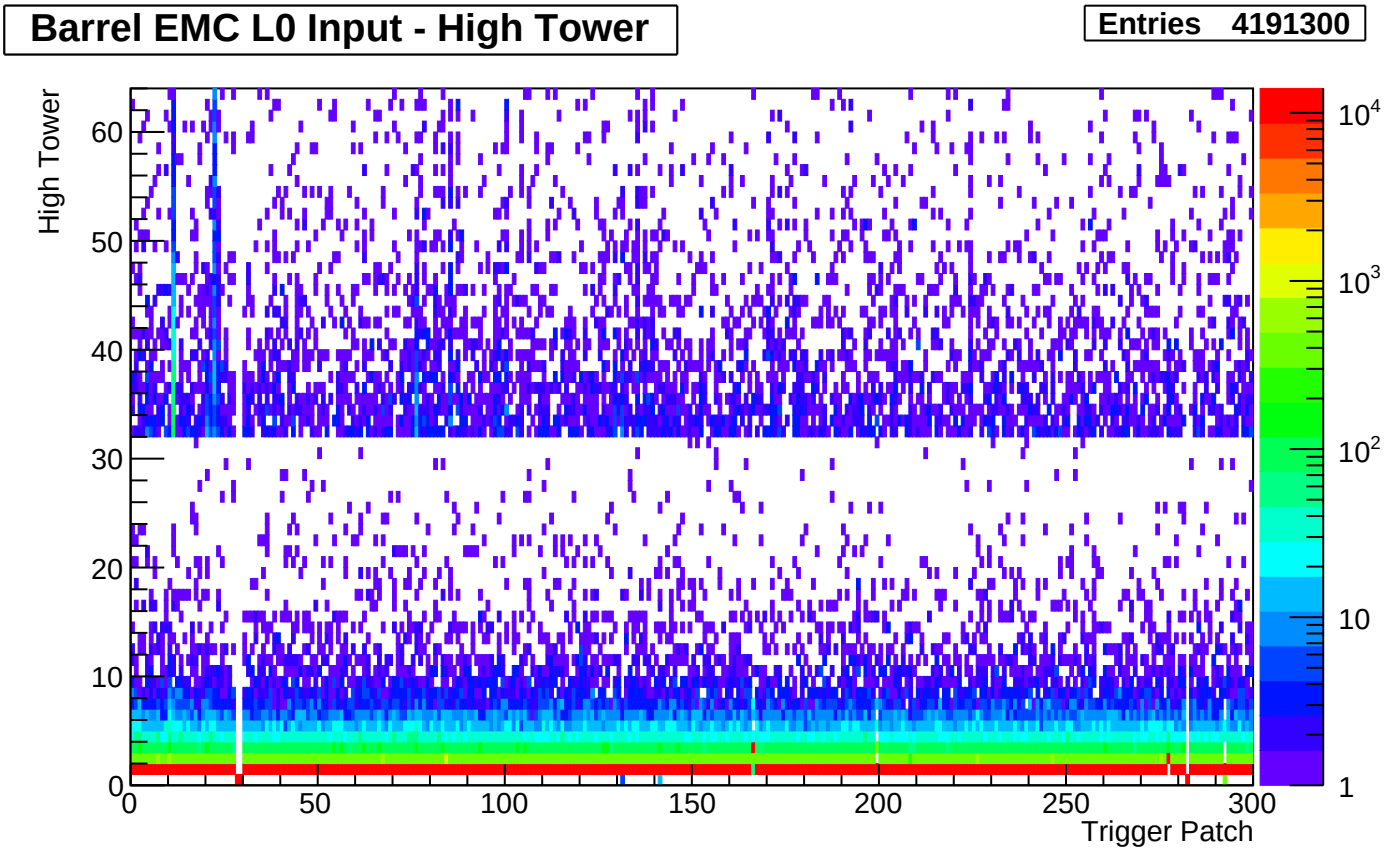
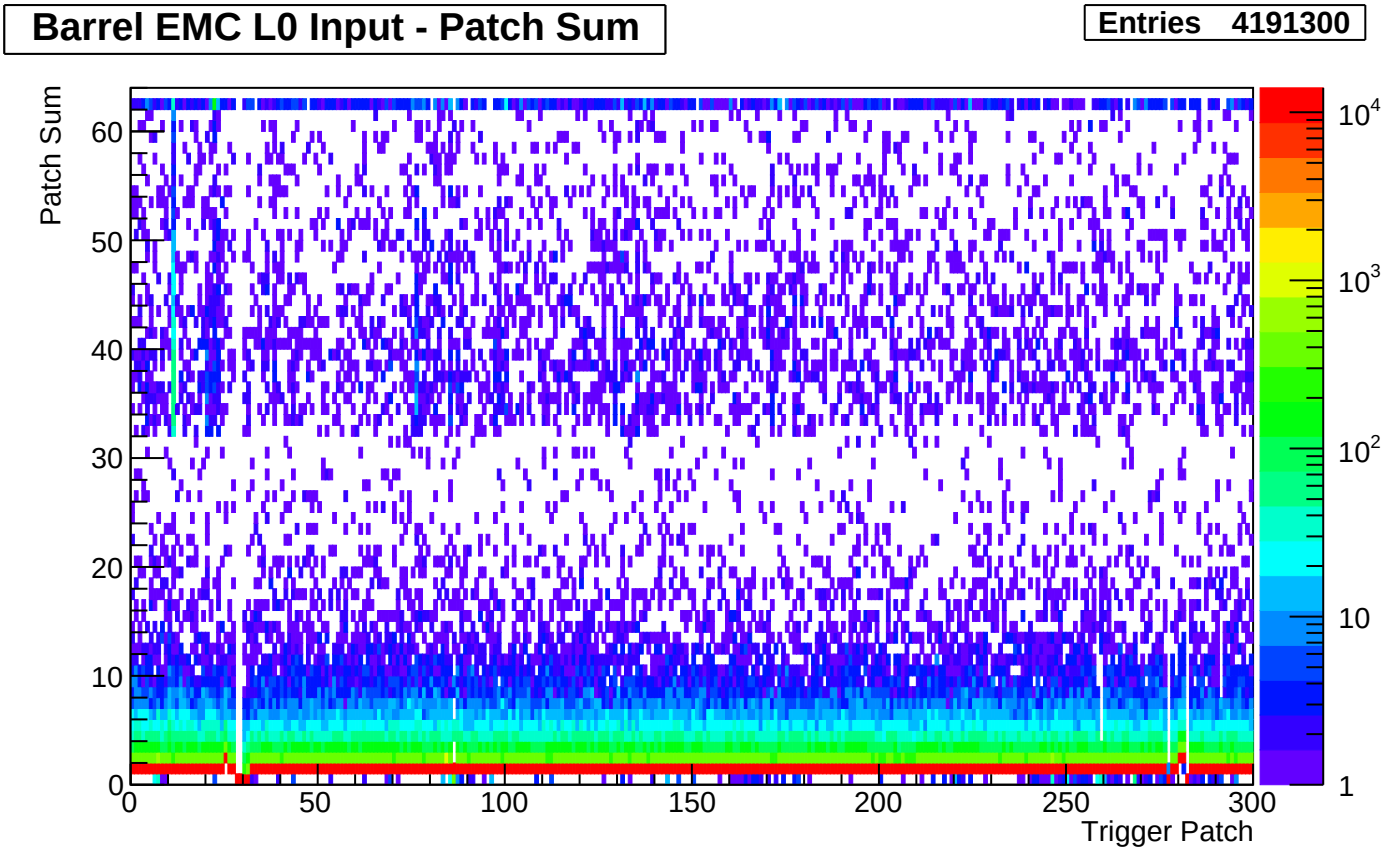
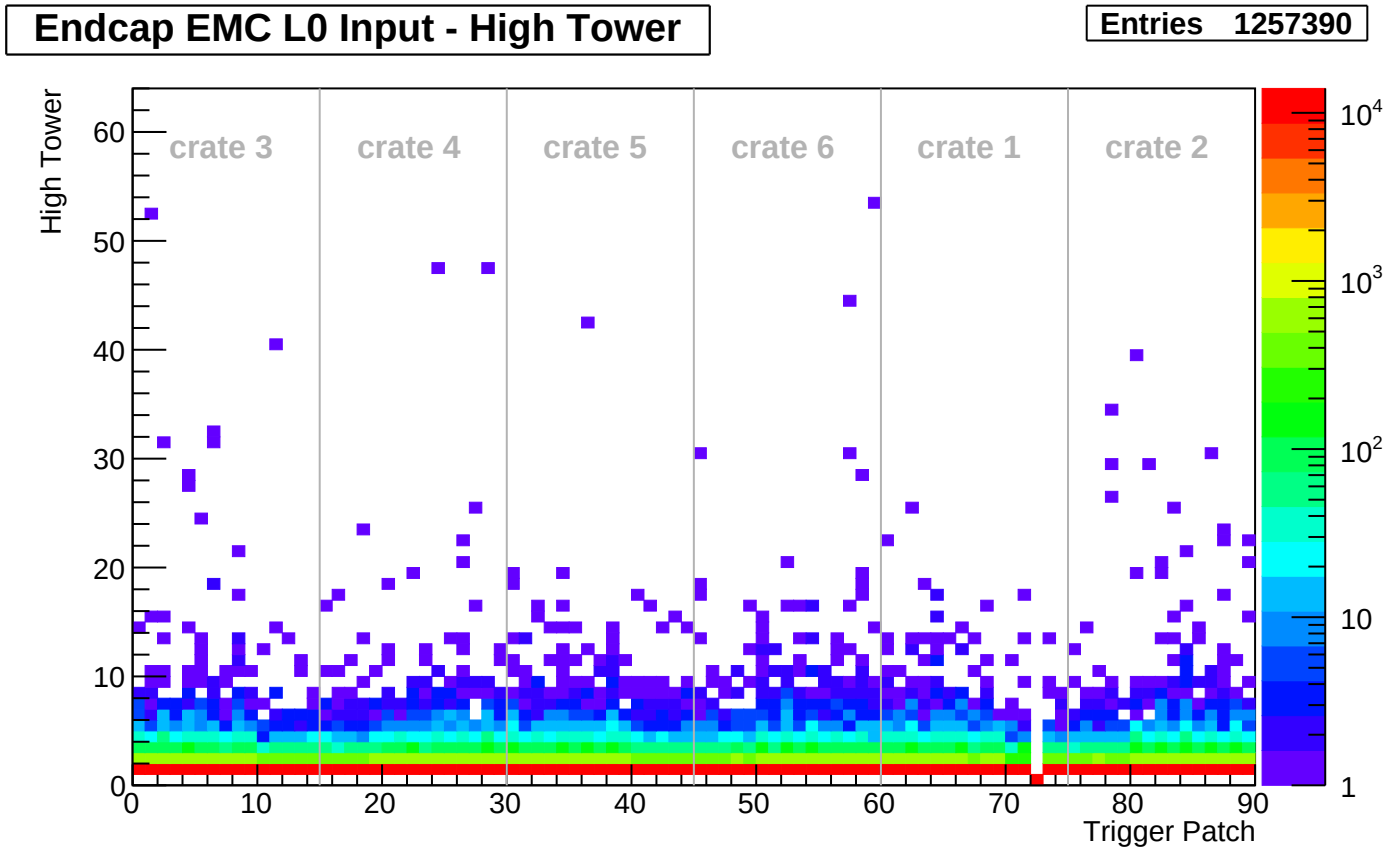
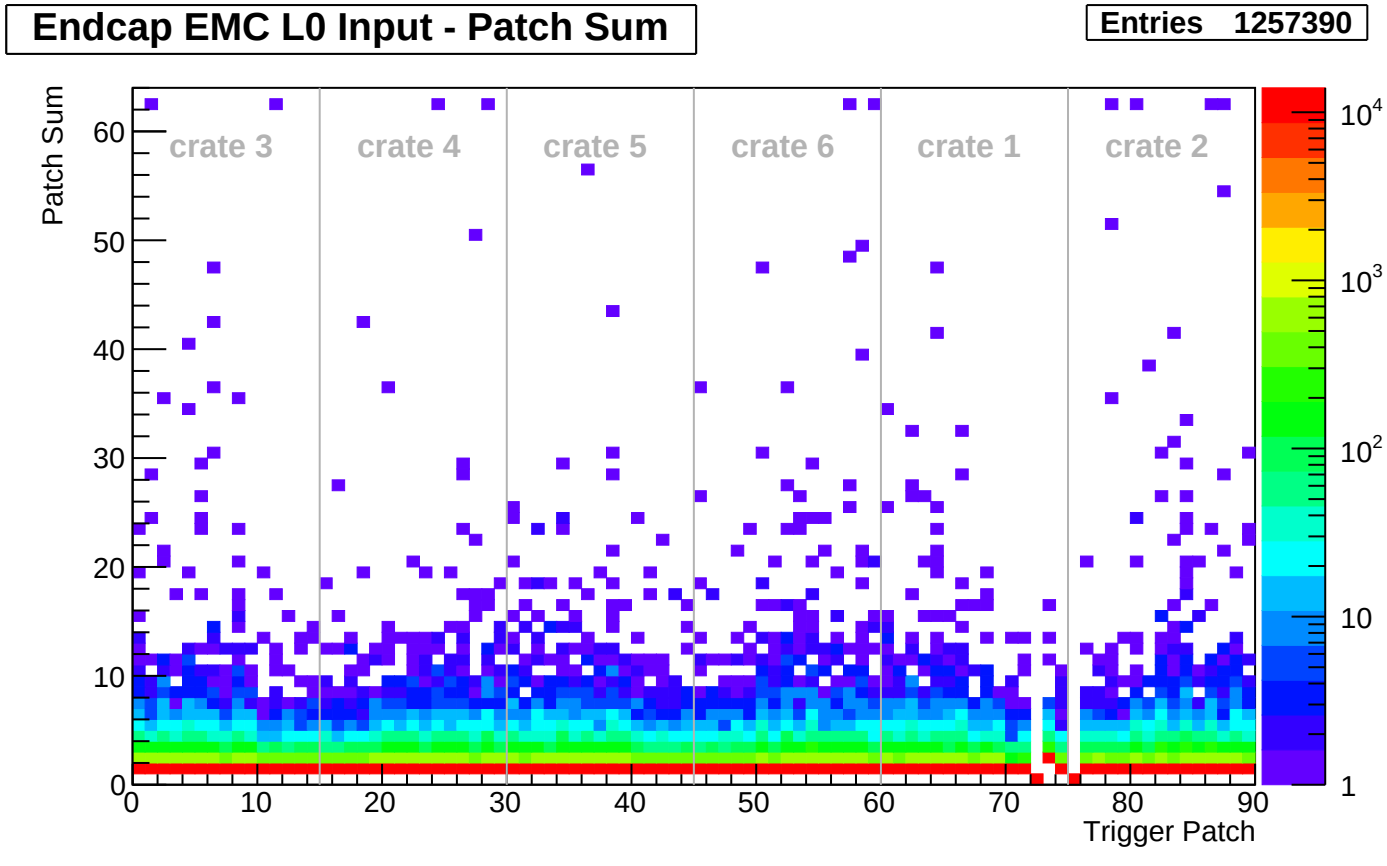
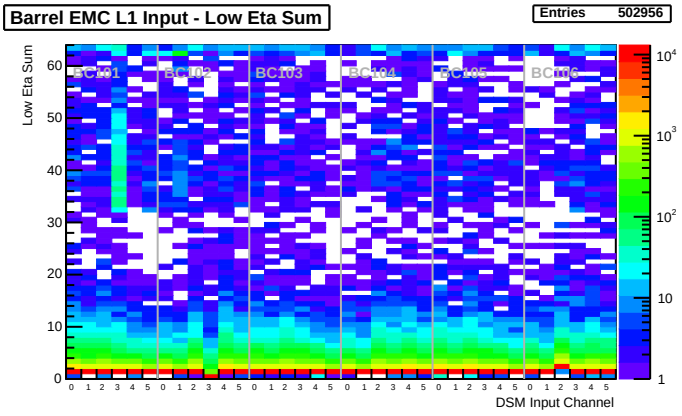
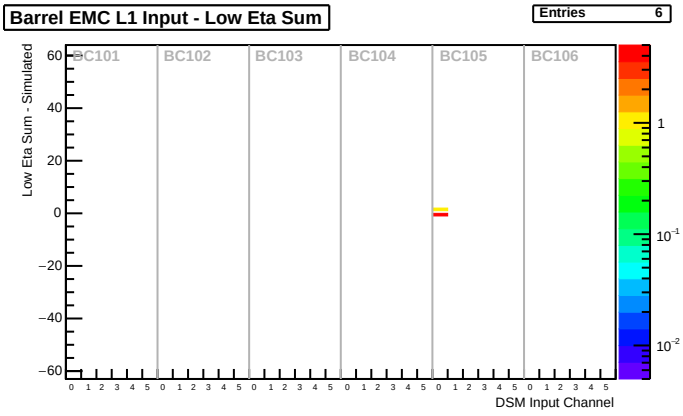

Barrel EMC L0 Input - High Tower
Entries 4191300
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

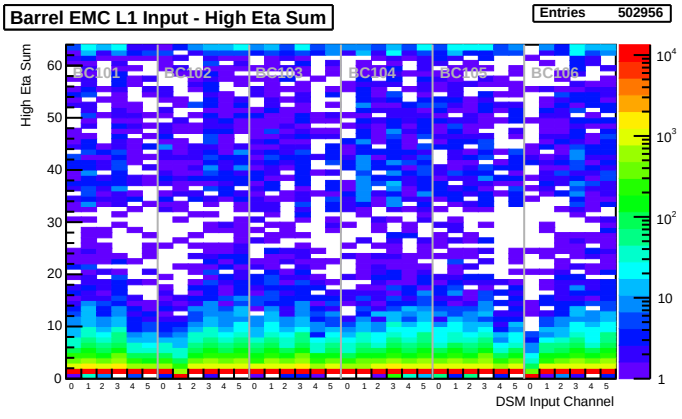

Barrel EMC L0 Input - Patch Sum
Entries 4191300
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

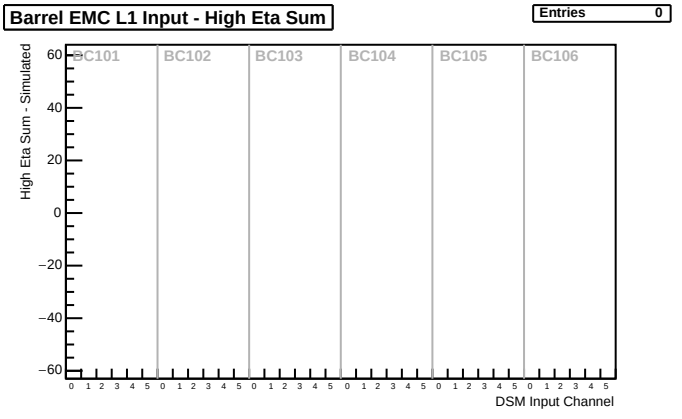

Endcap EMC L0 Input - High Tower
Entries 1257390
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

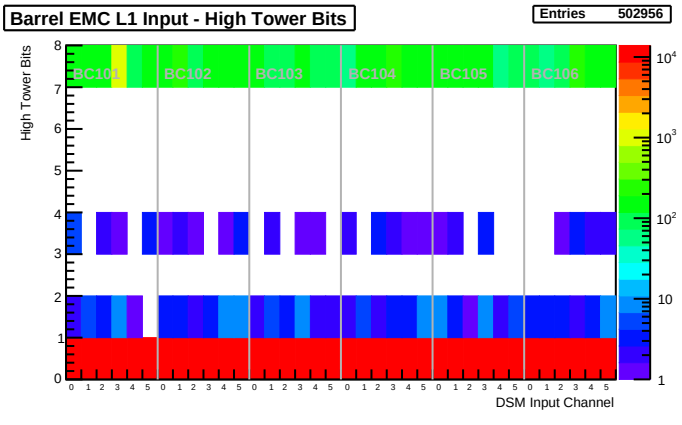

Endcap EMC L0 Input - Patch Sum
Entries 1257390
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

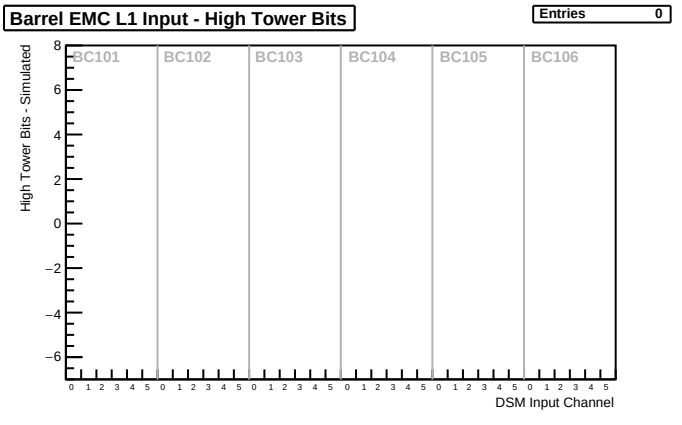

Barrel EMC L1 Input - Low Eta Sum
Entries 502956
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

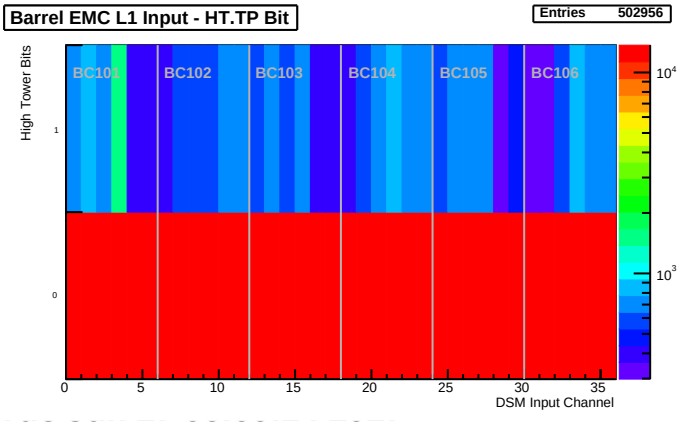

Barrel EMC L1 Input - Low Eta Sum
Entries 6
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

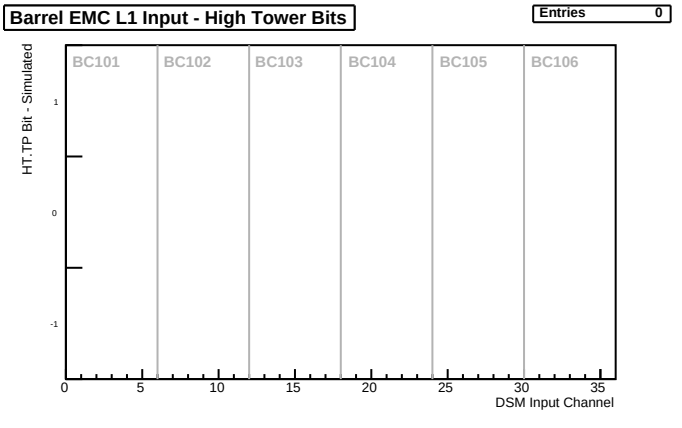

Barrel EMC L1 Input - High Eta Sum
Entries 502956
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

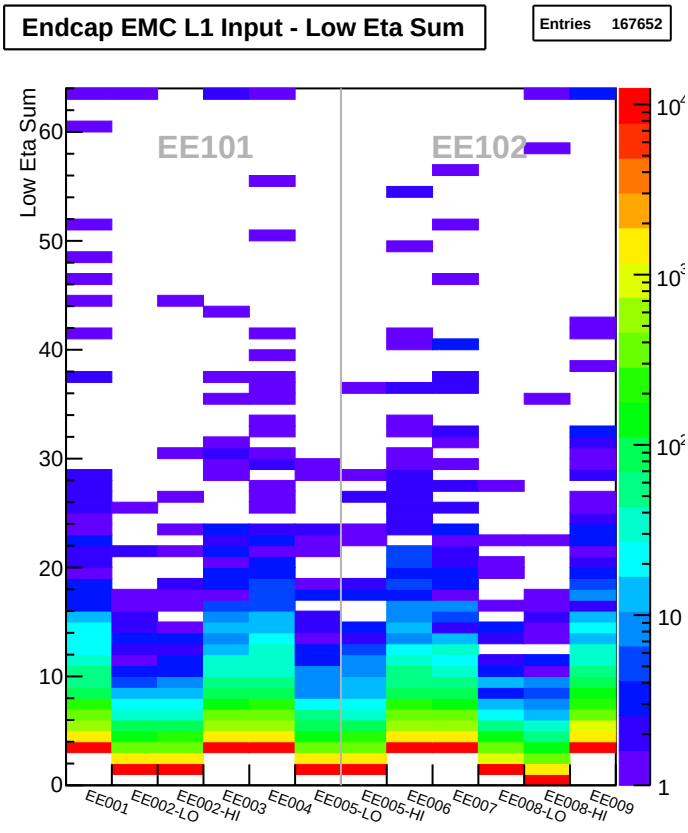

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

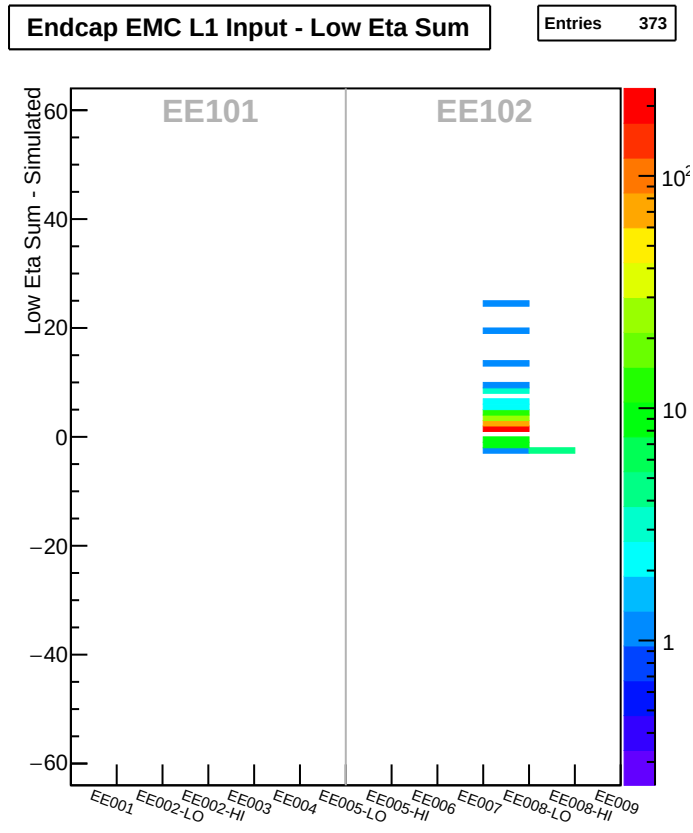

Barrel EMC L1 Input - High Tower Bits
Entries 502956
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

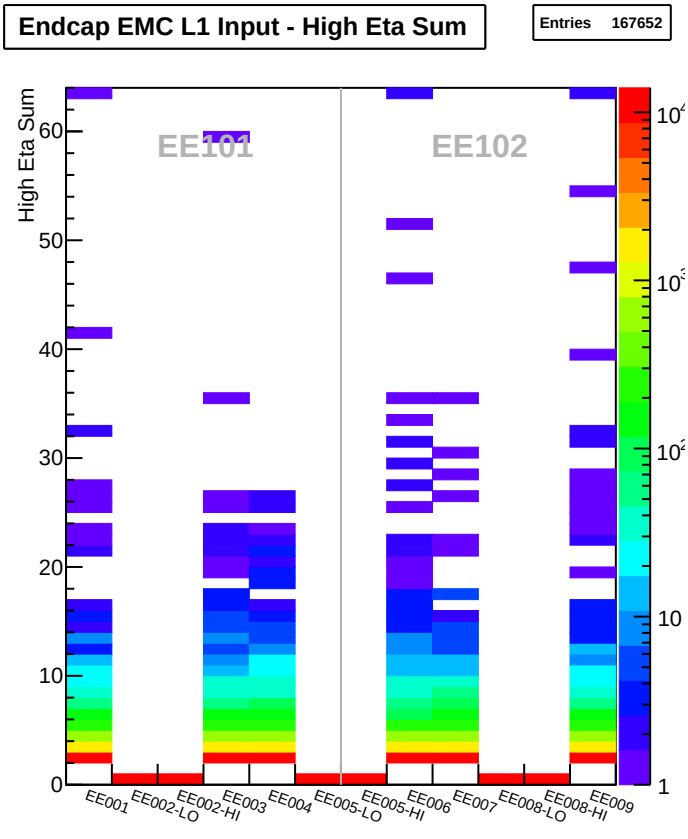

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

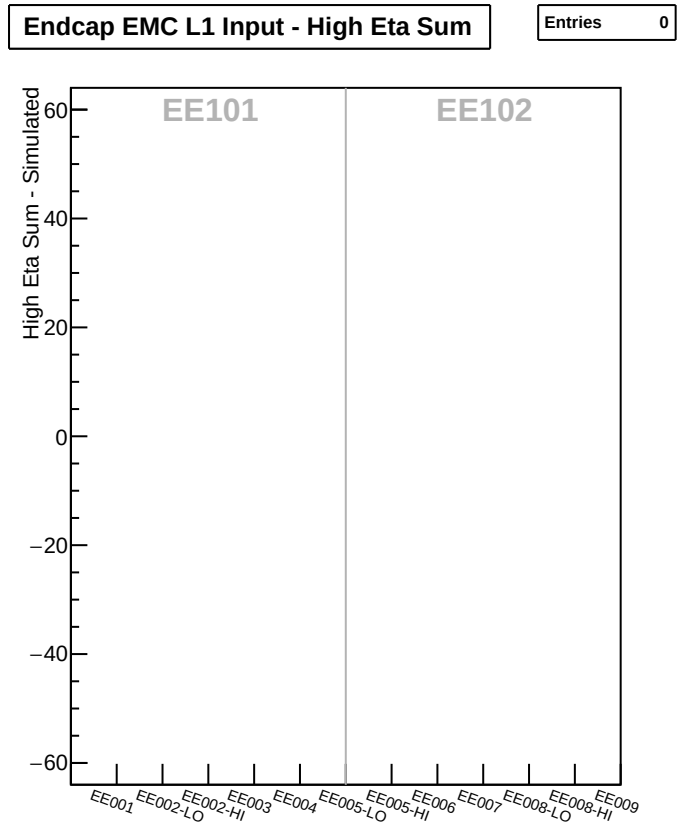

Barrel EMC L1 Input - HT.TP Bit
Entries 502956
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

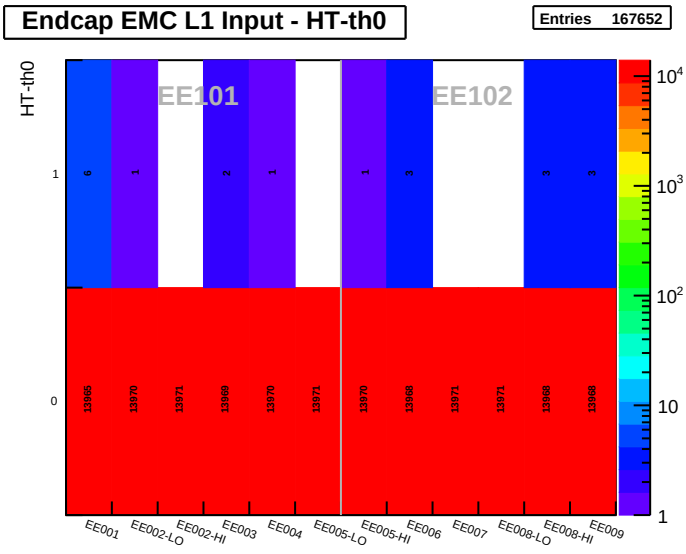

Barrel EMC L1 Input - High Tower Bits
Entries 0
HT.TP Bit - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

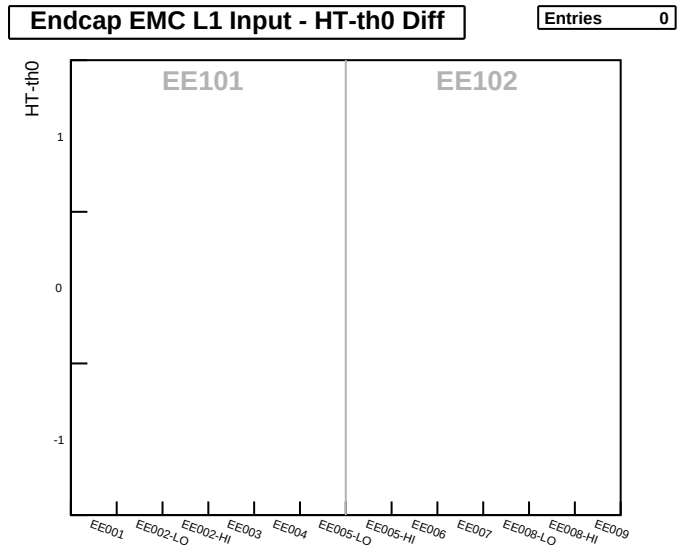

Endcap EMC L1 Input - Low Eta Sum
Entries 167652
Low Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

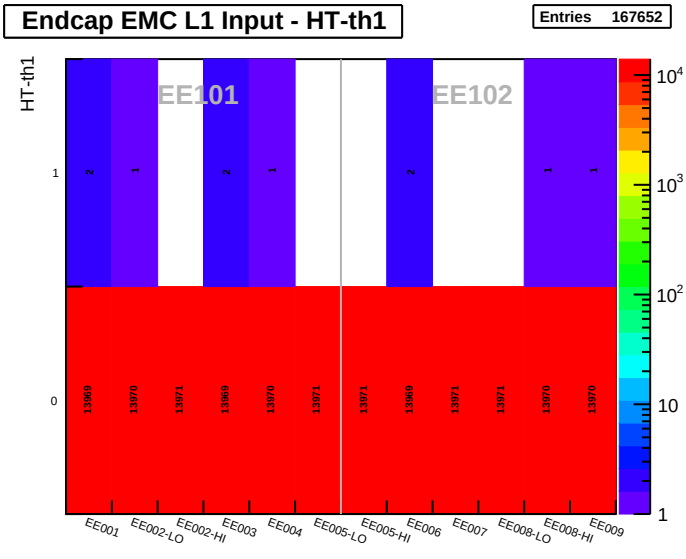

Endcap EMC L1 Input - Low Eta Sum
Entries 373
Low Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

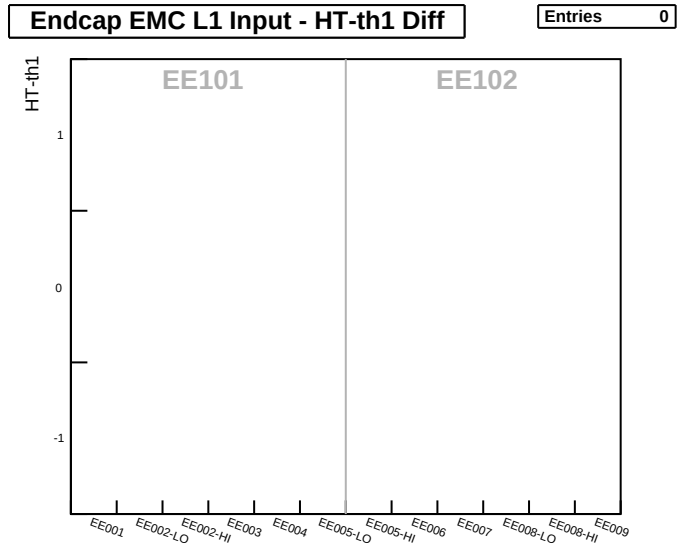

Endcap EMC L1 Input - High Eta Sum
Entries 167652
High Eta Sum
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

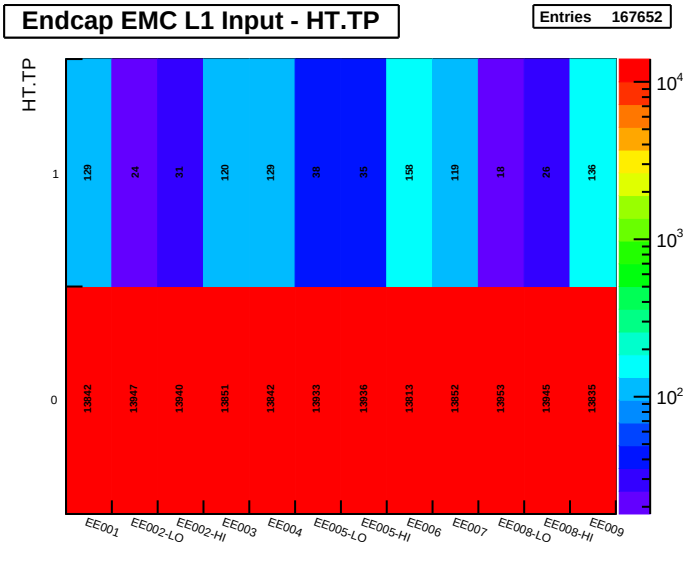

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001
EE002-LO
EE002-HI
EE003
EE004
EE005-LO
EE005-HI
EE006
EE007
EE008-LO
EE008-HI
EE009

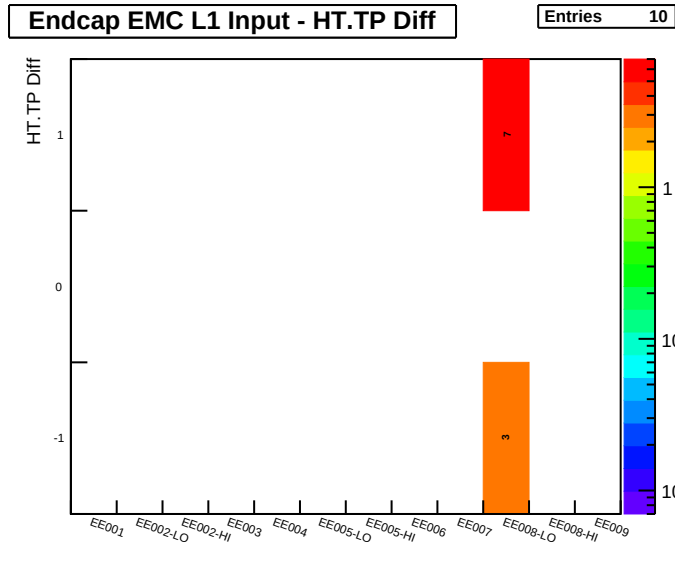

Endcap EMC L1 Input - HT-th0
Entries 167652
HT-th0
EE101
EE102
1
0
6 1 2 1 1 3 3 3
13965 13970 13971 13969 13970 13971 13970 13968 13971 13971 13968 13968
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
10^4 10^3 10^2 10 1

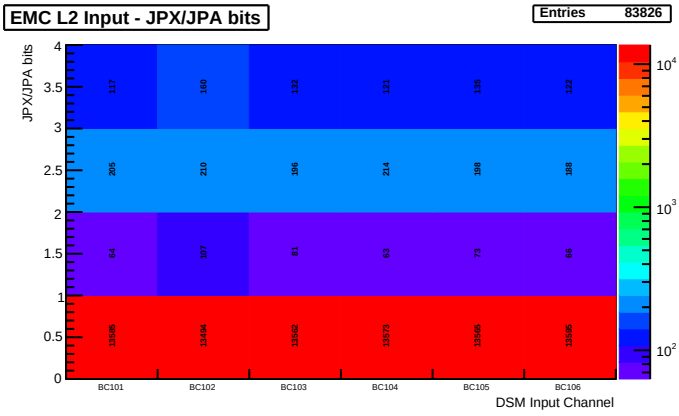

Endcap EMC L1 Input - HT-th0 Diff
Entries 0
HT-th0
EE101
EE102
1
0
-1
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

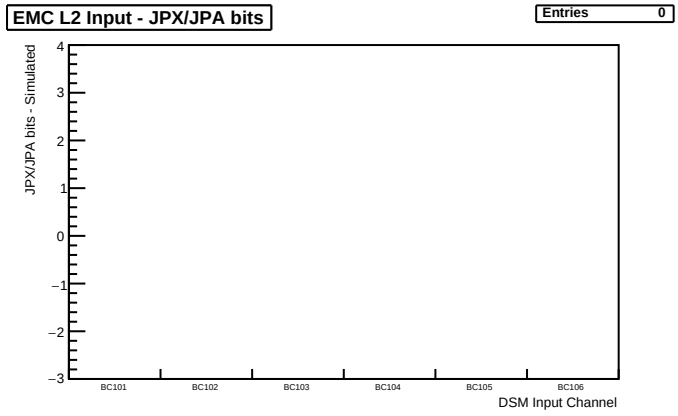

Endcap EMC L1 Input - HT-th1
Entries 167652
HT-th1
EE101
EE102
1
0
2 1 2 1 2 1 1
13969 13970 13971 13969 13970 13971 13971 13969 13971 13971 13970 13970
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
10^4 10^3 10^2 10 1

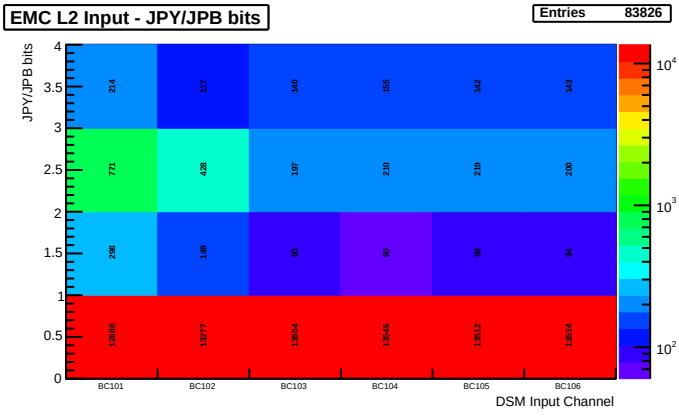

Endcap EMC L1 Input - HT-th1 Diff
Entries 0
HT-th1
EE101
EE102
1
0
-1
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

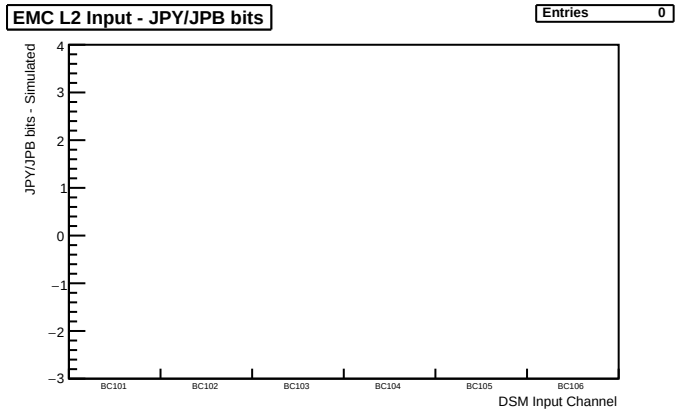

Endcap EMC L1 Input - HT.TP
Entries 167652
HT.TP
1
0
129 24 31 120 129 38 35 158 119 18 26 136
13942 13947 13940 13951 13942 13933 13936 13913 13952 13953 13945 13935
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
10^4 10^3 10^2

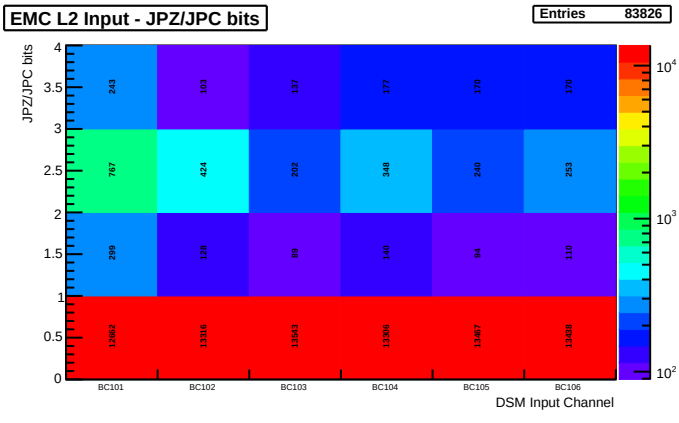

Endcap EMC L1 Input - HT.TP Diff
Entries 10
HT.TP Diff
1
0
-1
7
3
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009
1

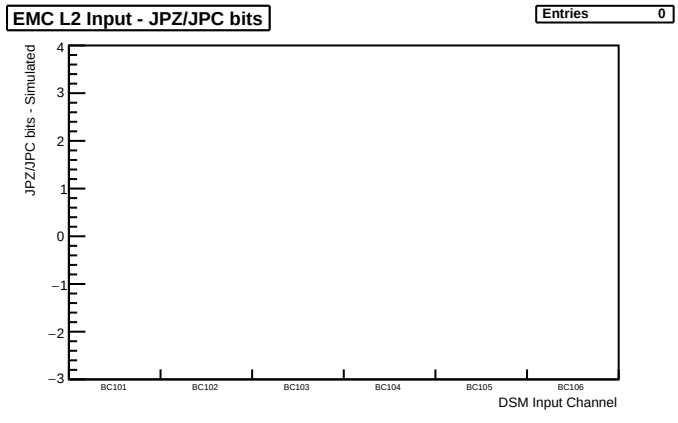

EMC L2 Input - JPX/JPA bits
Entries 83826
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106
117 160 132 121 135 122
205 210 196 214 198 188
64 107 81 63 73 66
13585 13494 13582 13573 13565 13595

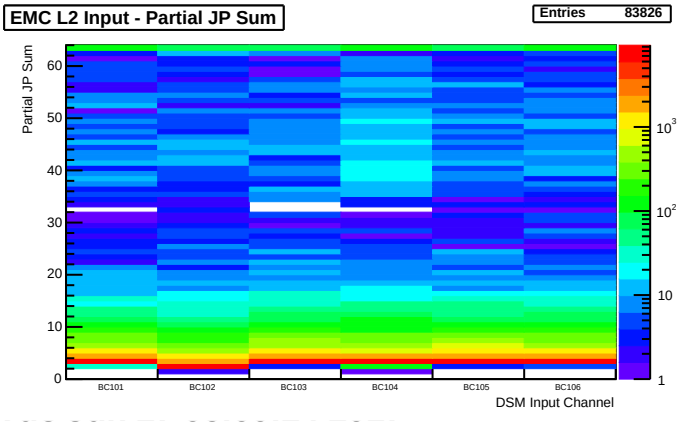

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106

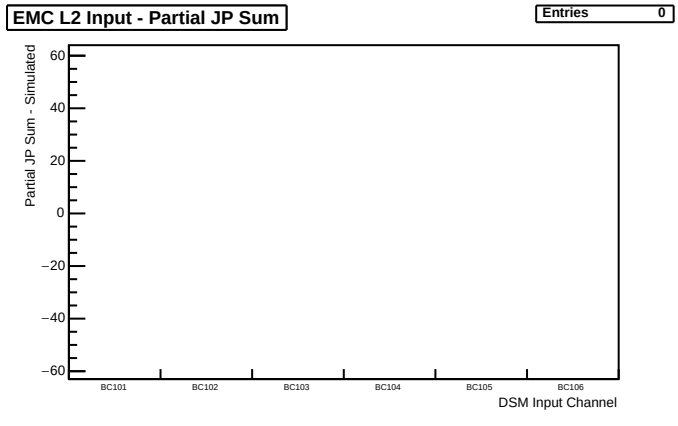

EMC L2 Input - JPY/JPB bits
Entries 83826
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106
214 117 140 155 142 143
771 428 197 210 219 200
298 149 80 60 98 94
12688 13277 13554 13546 13512 13534

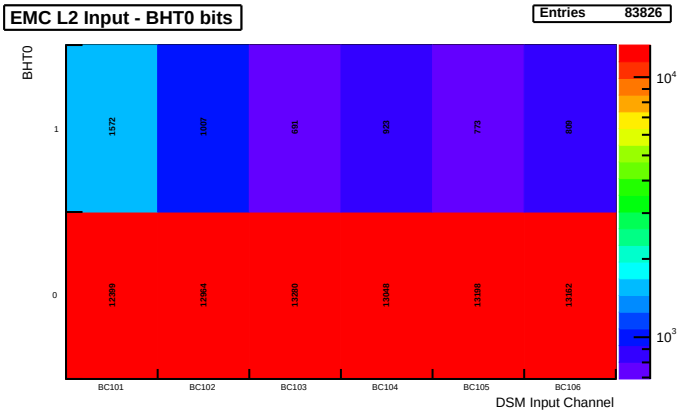

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106

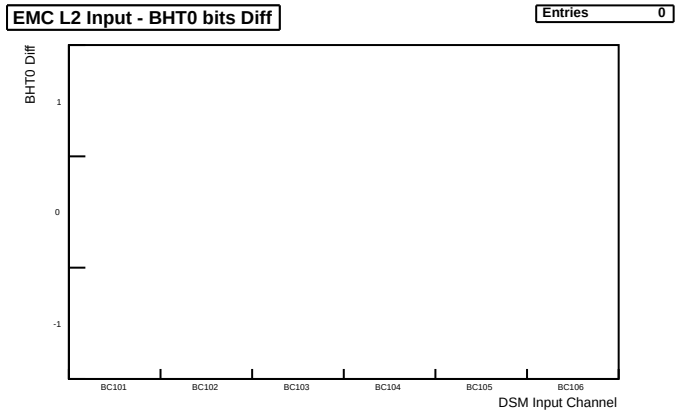

EMC L2 Input - JPZ/JPC bits
Entries 83826
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106
243 103 137 177 170 170
767 424 202 348 240 253
299 128 89 140 94 110
12862 13316 13543 13306 13467 13438

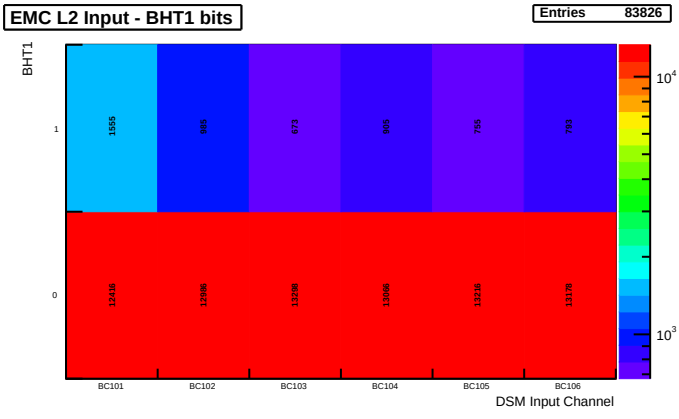

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106

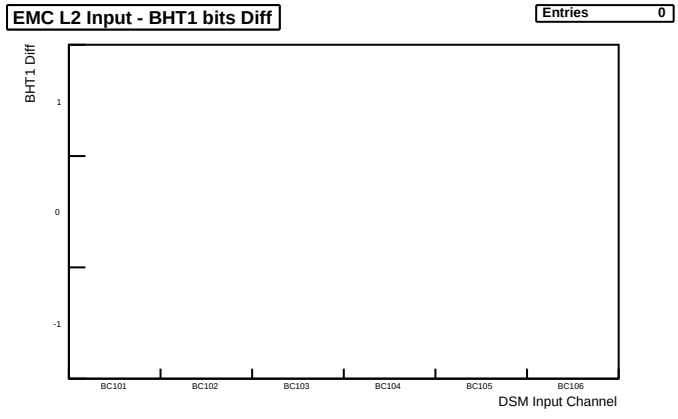

EMC L2 Input - Partial JP Sum
Entries 83826
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106

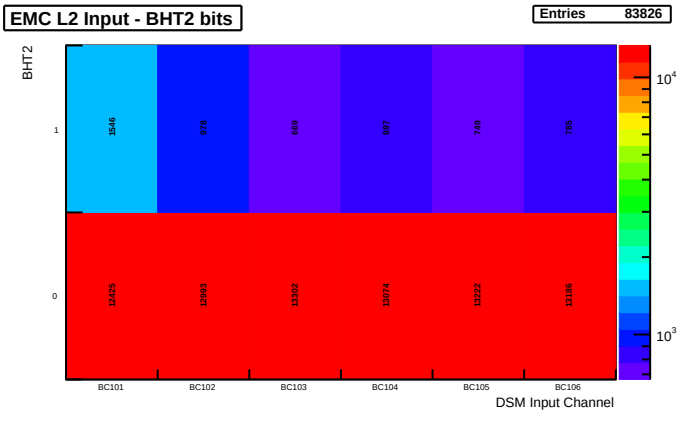

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106

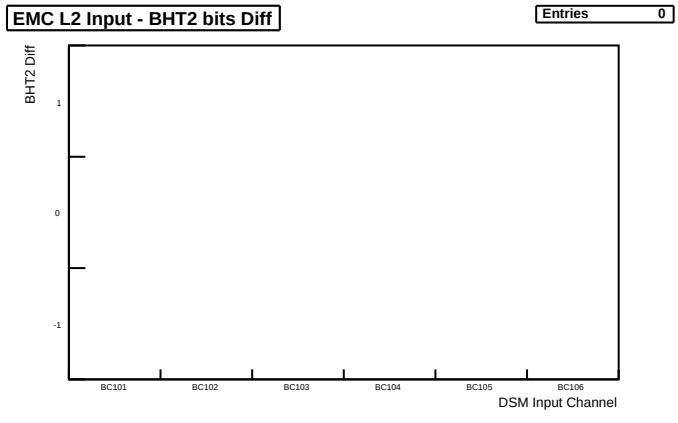

EMC L2 Input - BHT0 bits
Entries 83826
BHT0
1572
1007
691
923
773
809
12399
12984
13280
13048
13398
13162
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

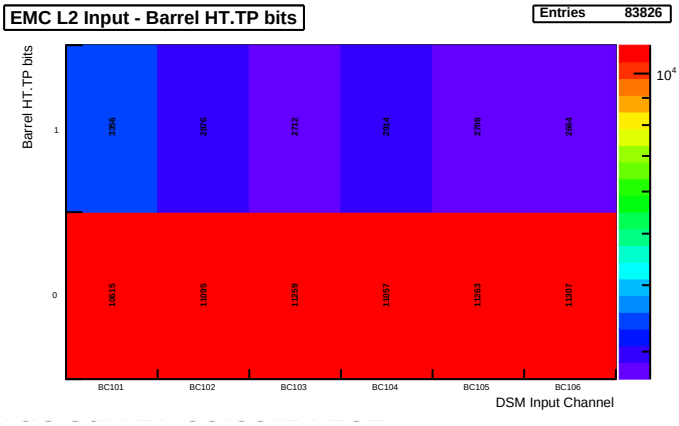

EMC L2 Input - BHT0 bits Diff
Entries 0
BHT0 Diff
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

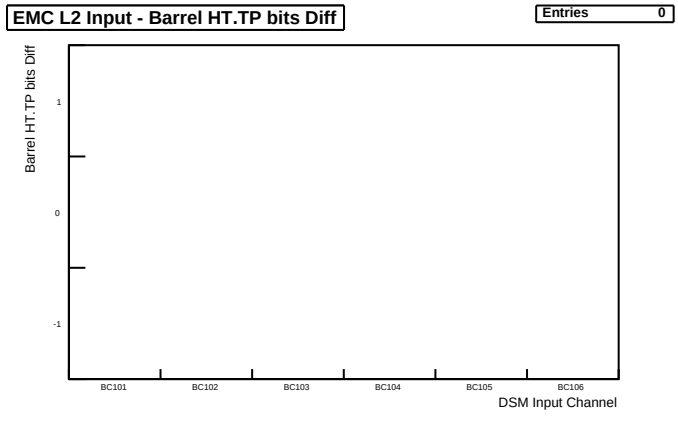

EMC L2 Input - BHT1 bits
Entries 83826
BHT1
1555
935
973
905
795
793
12416
12986
13298
13066
13216
13178
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

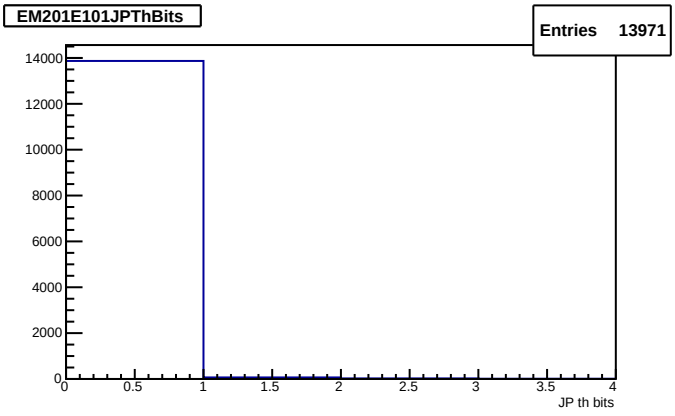

EMC L2 Input - BHT1 bits Diff
Entries 0
BHT1 Diff
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

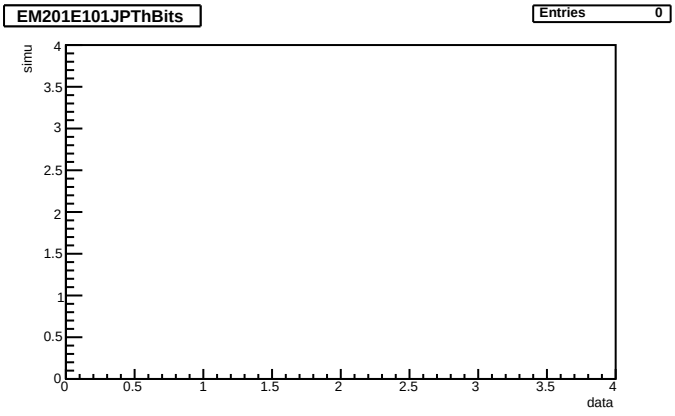

EMC L2 Input - BHT2 bits
Entries 83826
BHT2
1546
978
659
897
749
765
12425
12993
13302
13074
13222
13186
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

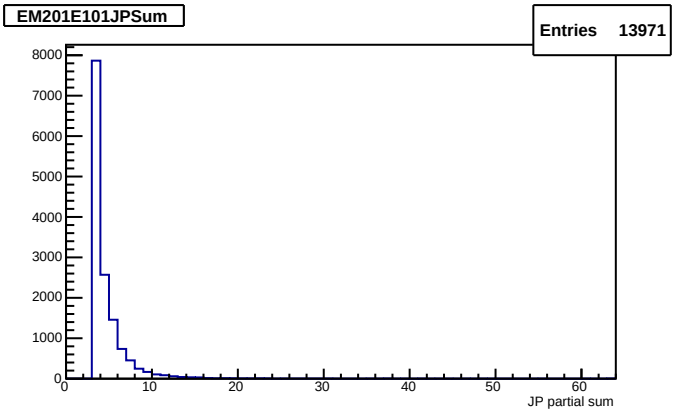

EMC L2 Input - BHT2 bits Diff
Entries 0
BHT2 Diff
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

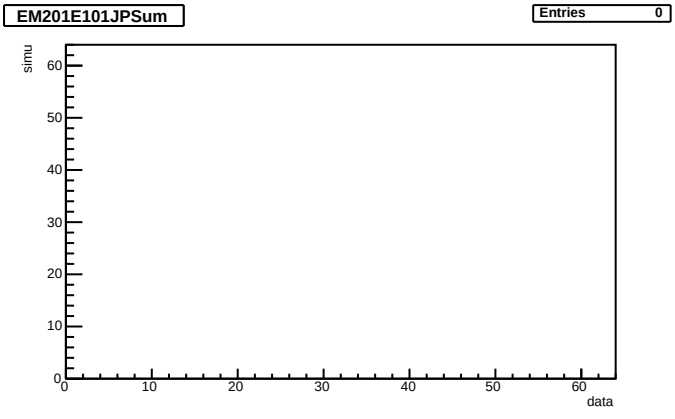

EMC L2 Input - Barrel HT.TP bits
Entries 83826
Barrel HT.TP bits
3356
2976
2712
2914
2708
2664
10615
11095
11339
11057
11283
11307
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

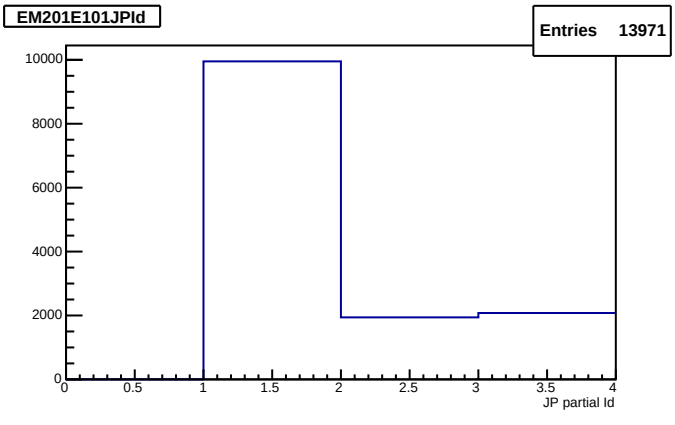

EMC L2 Input - Barrel HT.TP bits Diff
Entries 0
Barrel HT.TP bits Diff
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

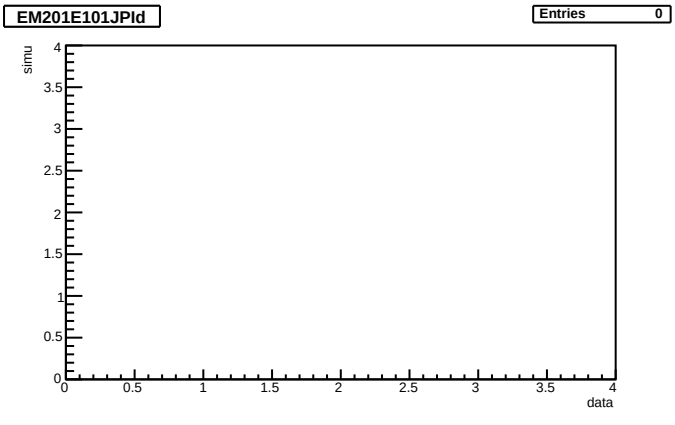

EM201E101JPThBits
Entries 13971
JP th bits

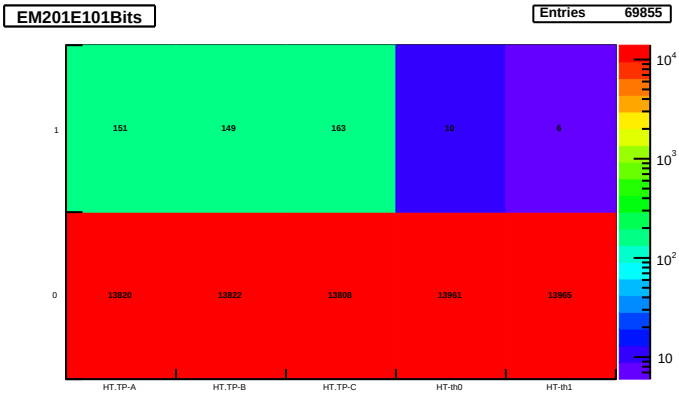

EM201E101JPThBits
Entries 0
simu
data

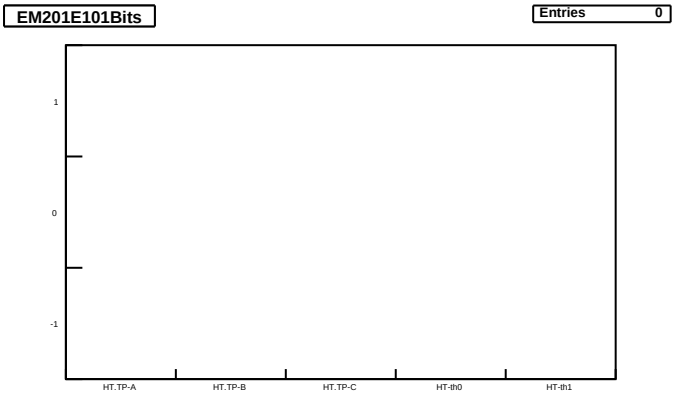

EM201E101JPSum
Entries 13971
JP partial sum

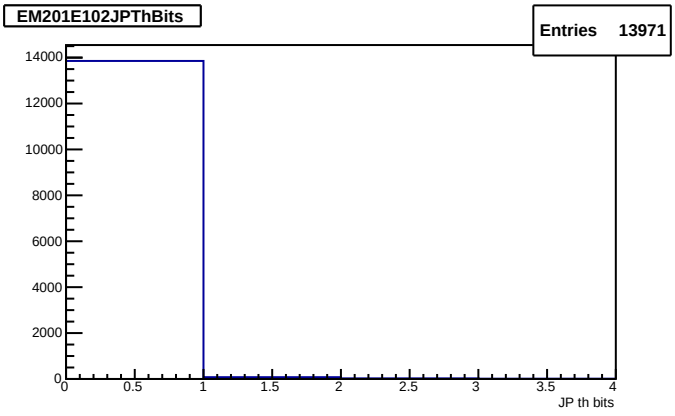

EM201E101JPSum
Entries 0
simu
data

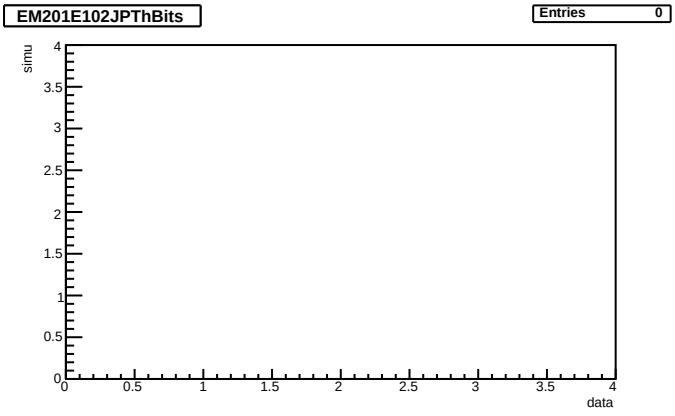

EM201E101JPId
Entries 13971
JP partial Id

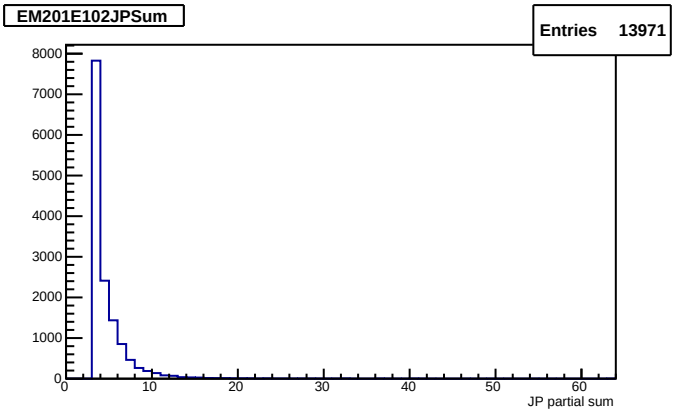

EM201E101JPId
Entries 0
simu
data

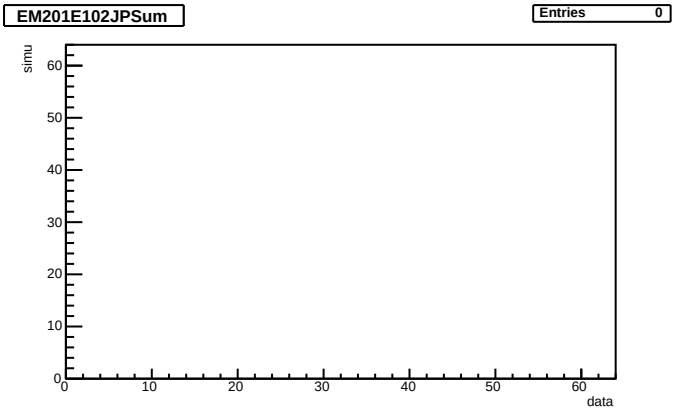

EM201E101Bits
Entries 69855
151
149
163
10
6
13820
13822
13808
13961
13965
HT.TP-A
HT.TP-B
HT.TP-C
HT-th0
HT-th1

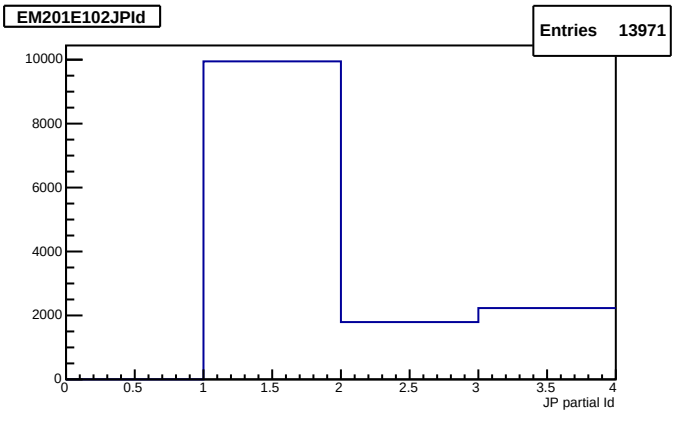

EM201E101Bits
Entries 0
HT.TP-A
HT.TP-B
HT.TP-C
HT-th0
HT-th1

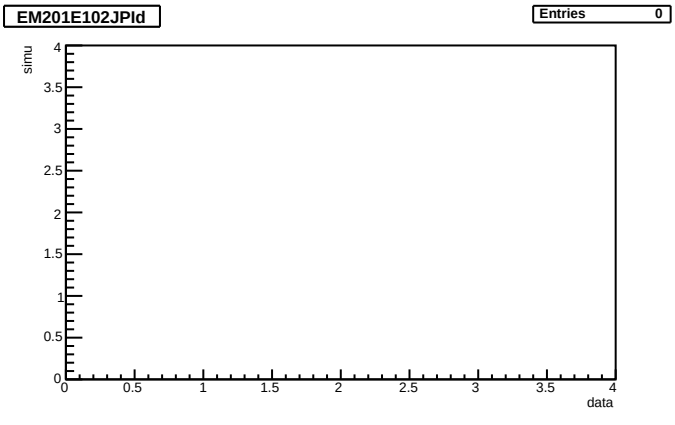

EM201E102JPThBits
Entries 13971
JP th bits

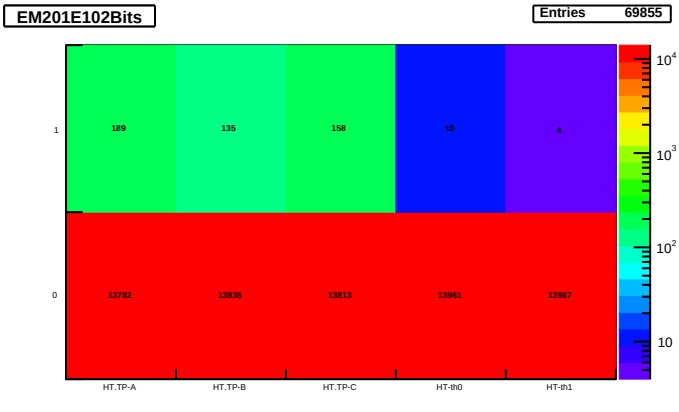

EM201E102JPThBits
Entries 0
simu
data

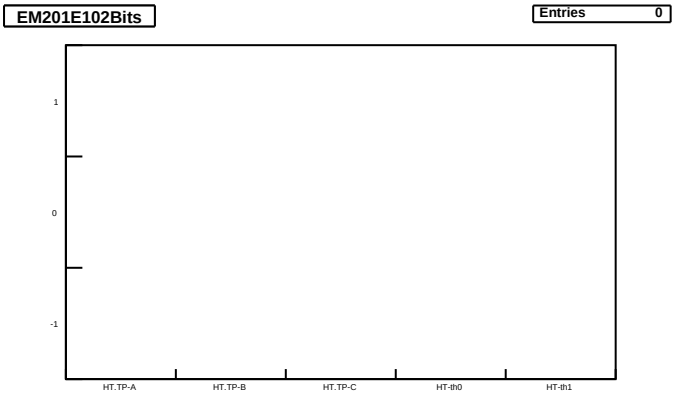

EM201E102JPSum
Entries 13971
JP partial sum

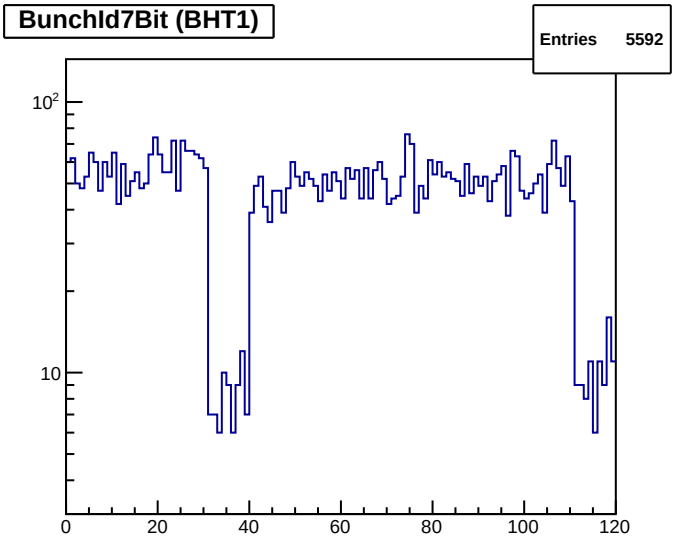

EM201E102JPSum
Entries 0
simu
data

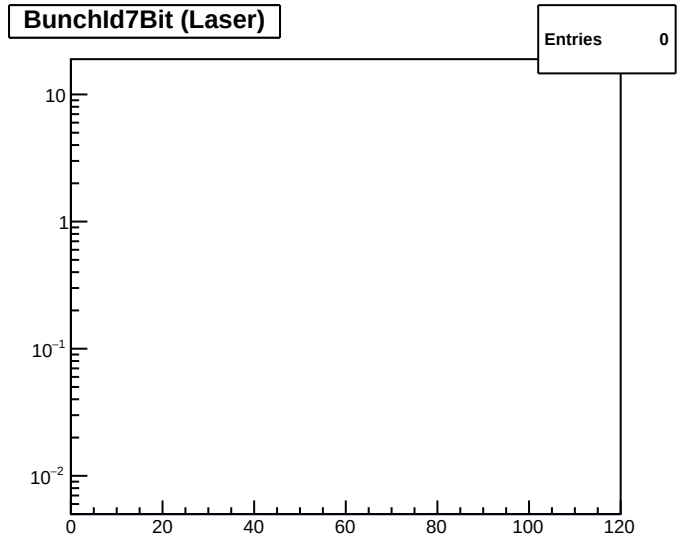

EM201E102JPId
Entries 13971
JP partial Id

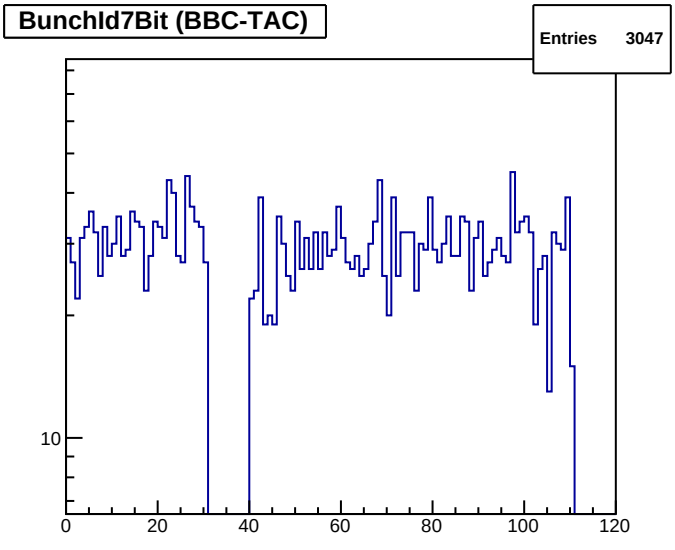

EM201E102JPId
Entries 0
simu
data

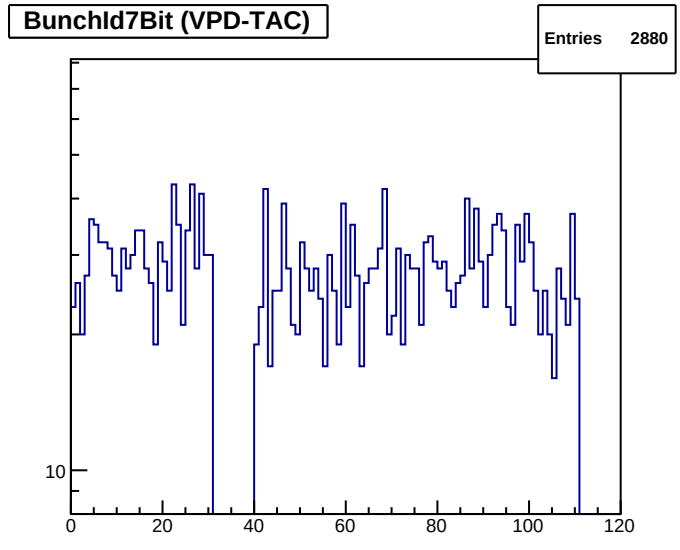

EM201E102Bits
Entries 69855
189
135
158
10
4
13782
13836
13813
13961
13967
HT.TP-A
HT.TP-B
HT.TP-C
HT-th0
HT-th1

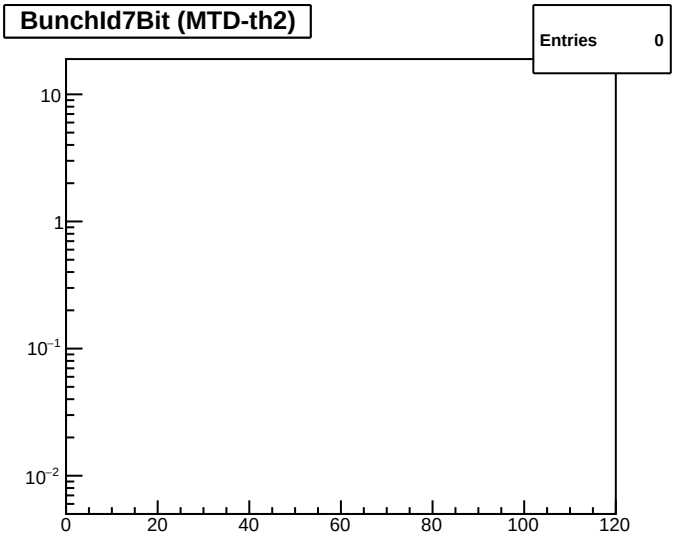

EM201E102Bits
Entries 0
HT.TP-A
HT.TP-B
HT.TP-C
HT-th0
HT-th1

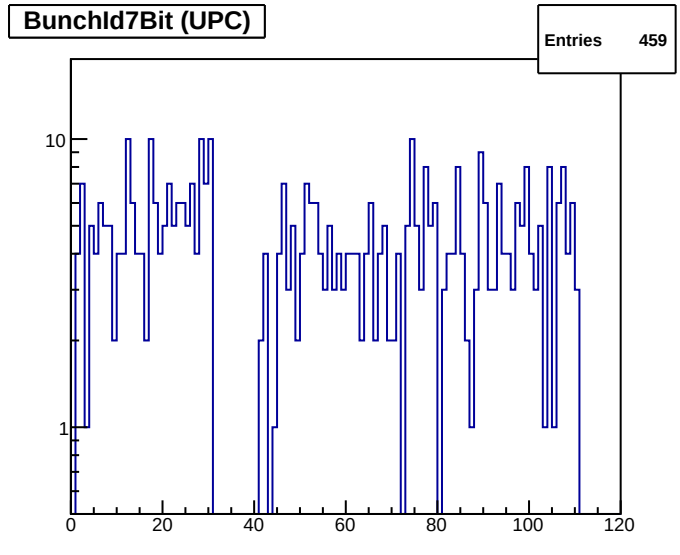

BunchId7Bit (BHT1)
Entries 5592
10^2
10
0 20 40 60 80 100 120

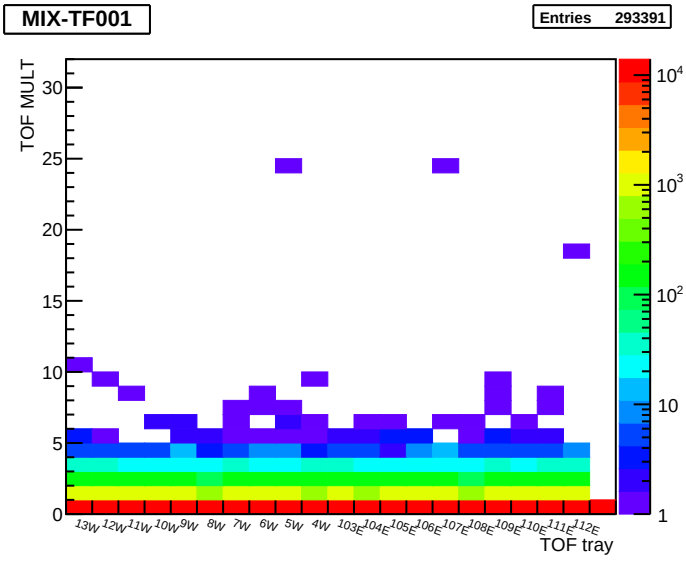

BunchId7Bit (Laser)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

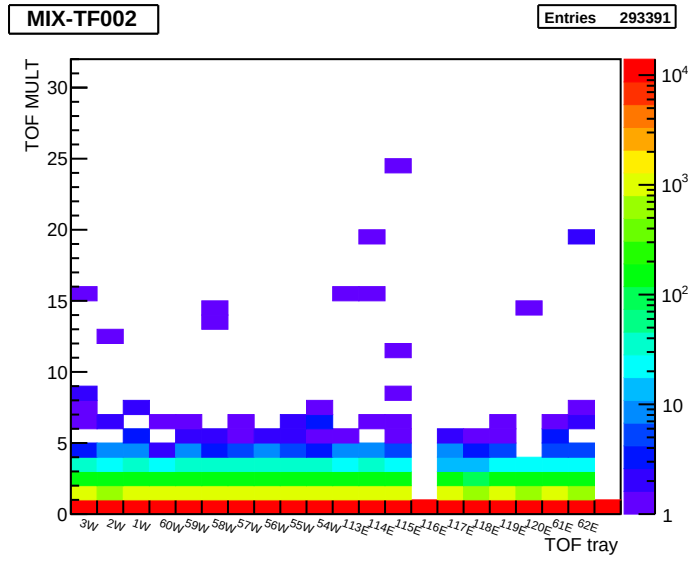

BunchId7Bit (BBC-TAC)
Entries 3047
10
0 20 40 60 80 100 120

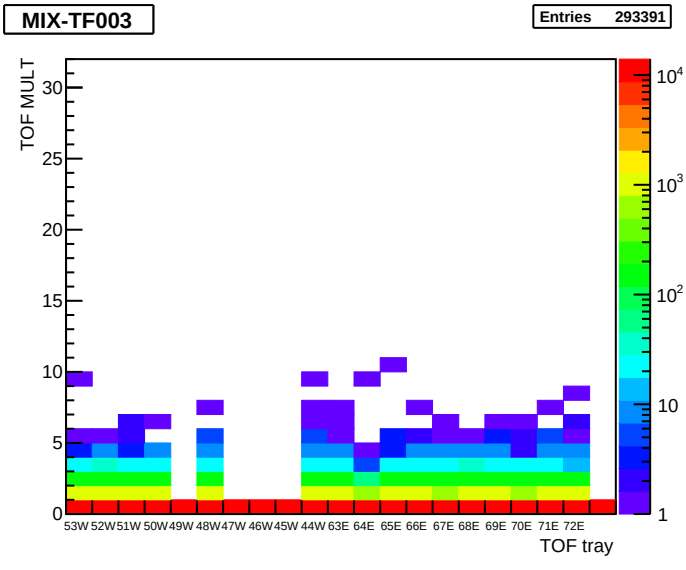

BunchId7Bit (VPD-TAC)
Entries 2880
10
0 20 40 60 80 100 120

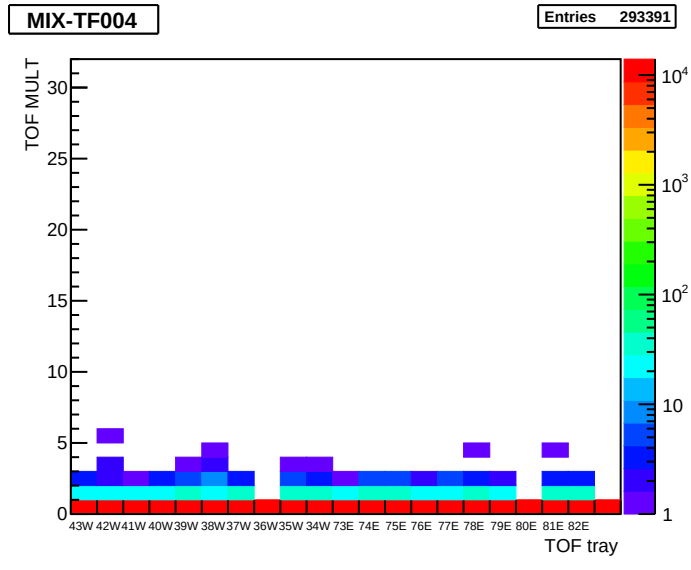

BunchId7Bit (MTD-th2)
Entries 0
10
1
10^{-1}
10^{-2}
0 20 40 60 80 100 120

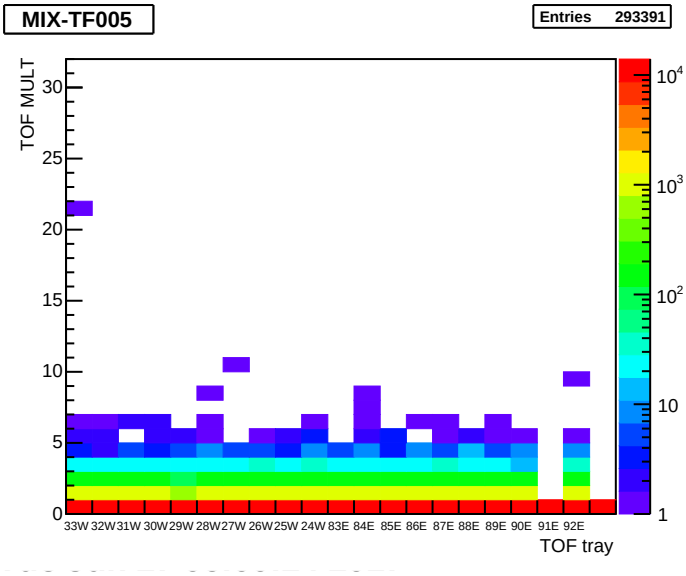

BunchId7Bit (UPC)
Entries 459
10
1
0 20 40 60 80 100 120

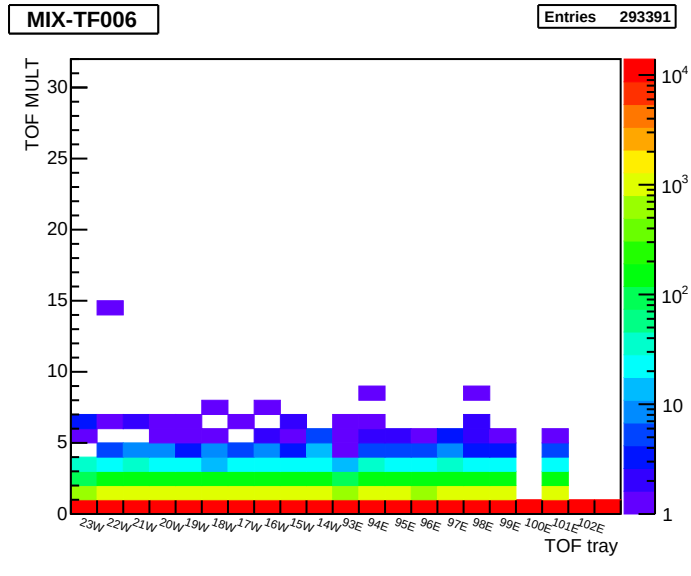

MIX-TF001
Entries 293391
TOF MULT
TOF tray

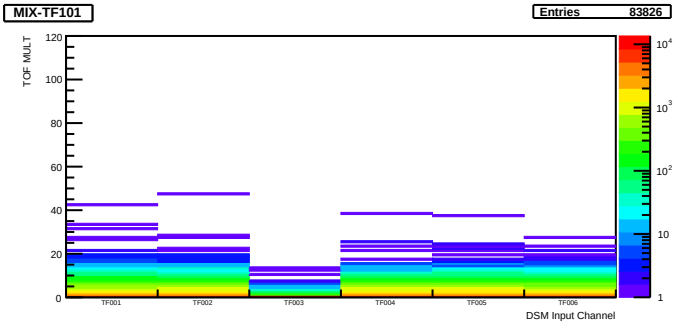

MIX-TF002
Entries 293391
TOF MULT
TOF tray

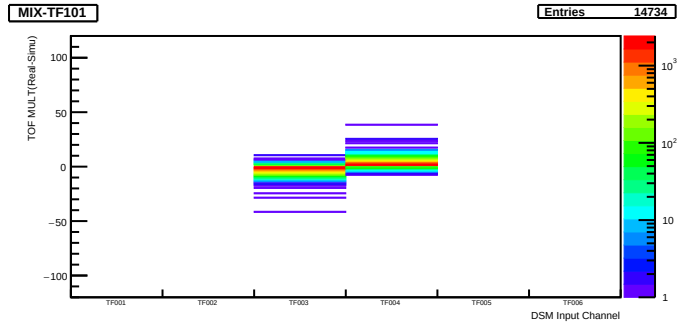

MIX-TF003
Entries 293391
TOF MULT
TOF tray

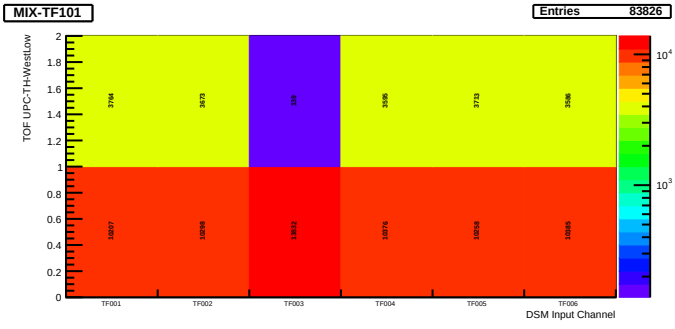

MIX-TF004
Entries 293391
TOF MULT
TOF tray

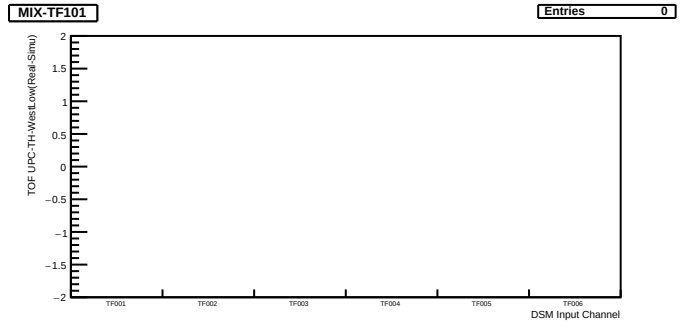

MIX-TF005
Entries 293391
TOF MULT
TOF tray

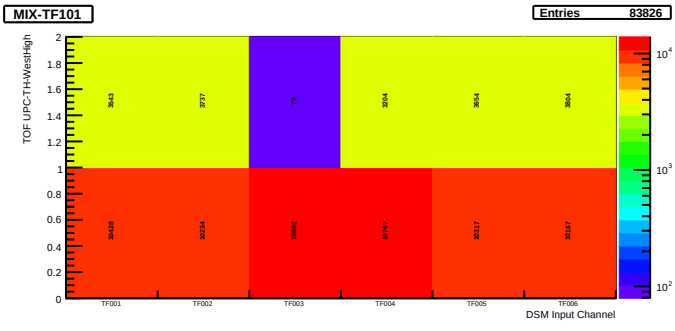

MIX-TF006
Entries 293391
TOF MULT
TOF tray

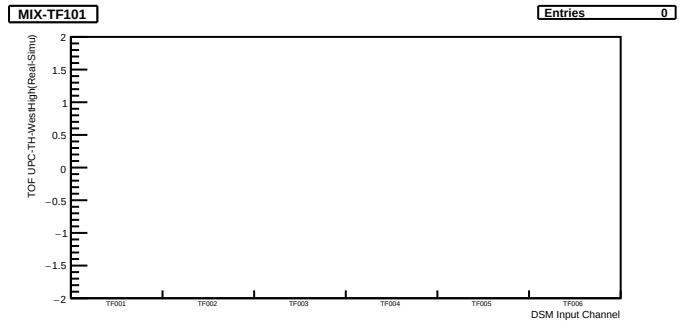

MIX-TF101
Entries 83826
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

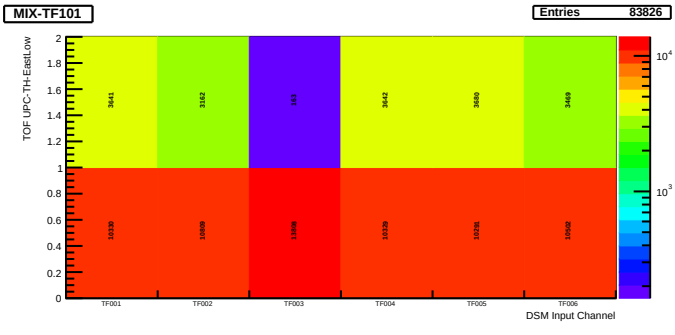

MIX-TF101
Entries 14734
TOF MULT(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

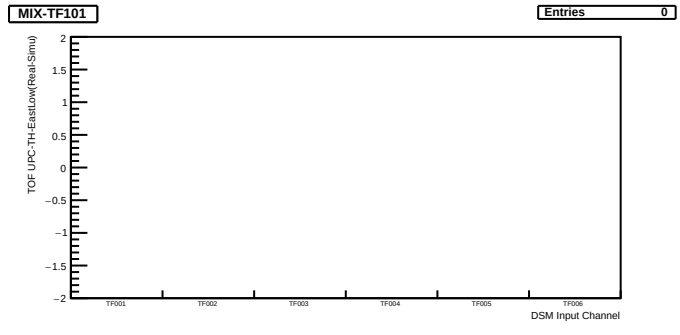

MIX-TF101
Entries 83826
TOF UPC-TH-WestLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

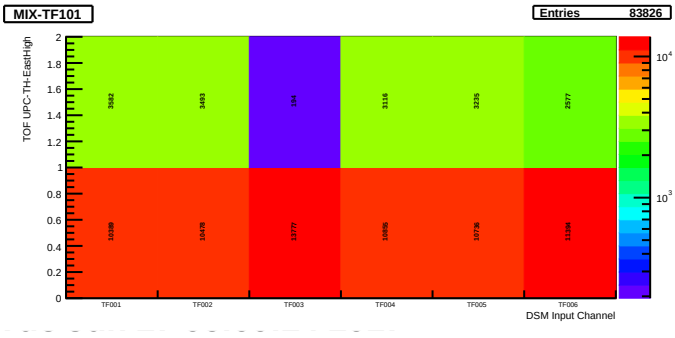

MIX-TF101
Entries 0
TOF UPC-TH-WestLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

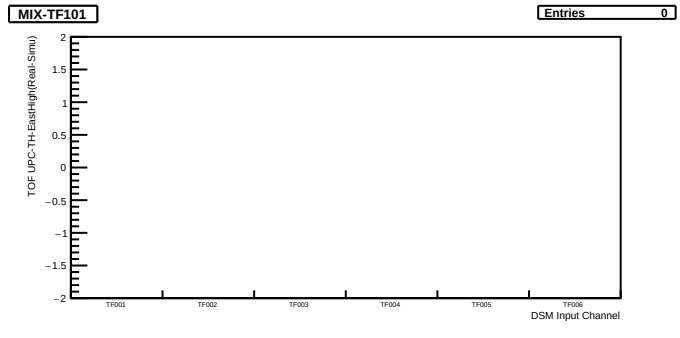

MIX-TF101
Entries 83826
TOF UPC-TH-WestHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

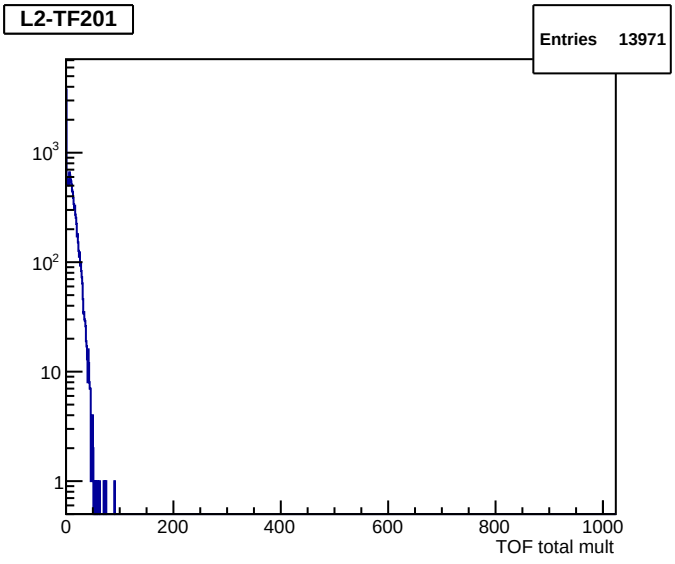

MIX-TF101
Entries 0
TOF UPC-TH-WestHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

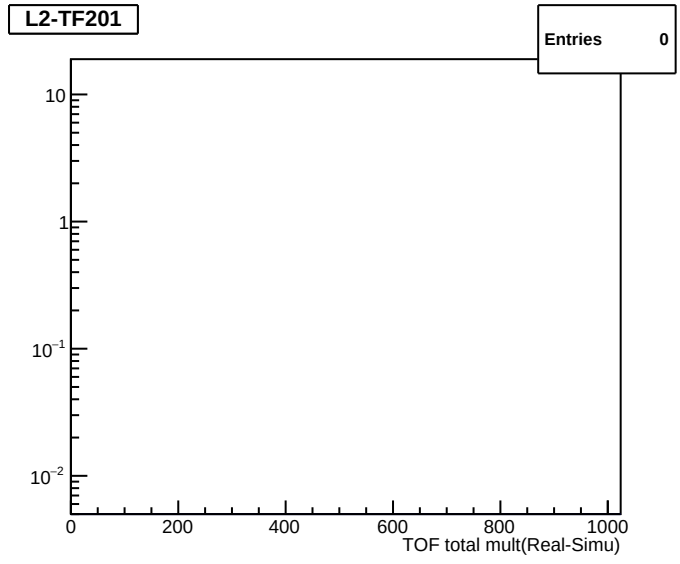

MIX-TF101
Entries 83826
TOF UPC-TH-EastLow
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

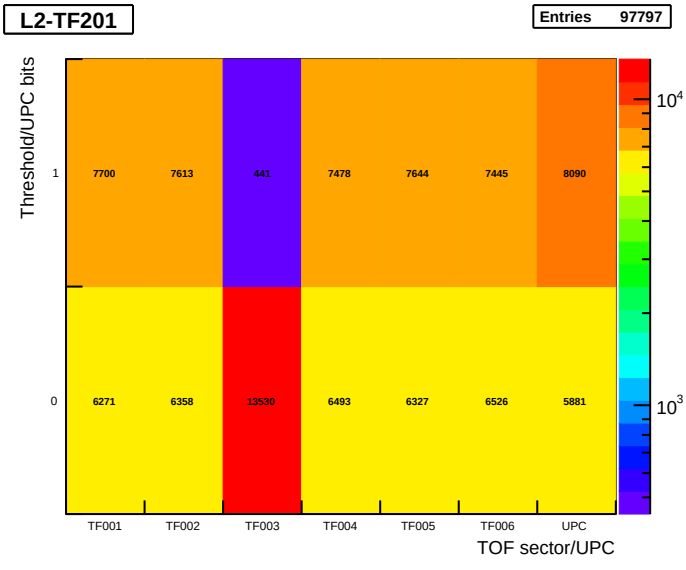

MIX-TF101
Entries 0
TOF UPC-TH-EastLow(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

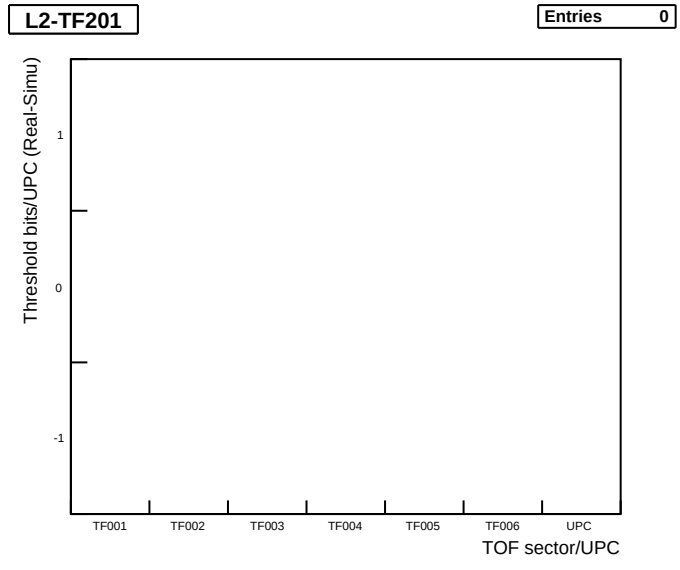

MIX-TF101
Entries 83826
TOF UPC-TH-EastHigh
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

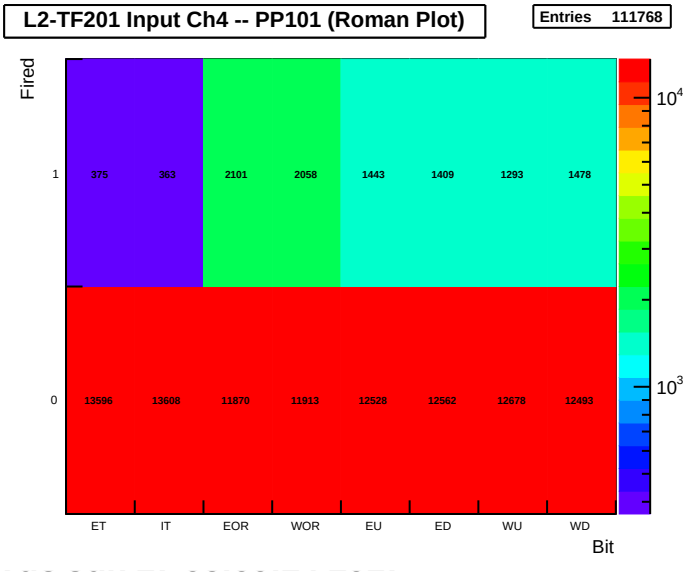

MIX-TF101
Entries 0
TOF UPC-TH-EastHigh(Real-Simu)
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

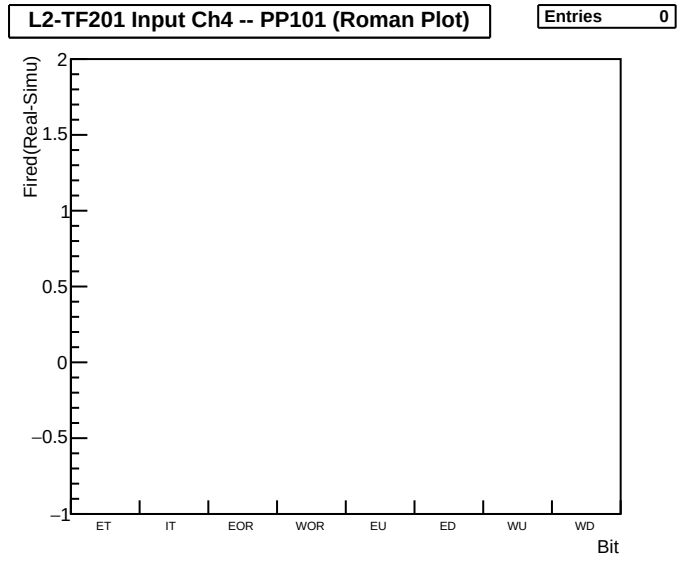

L2-TF201
Entries 13971
TOF total mult

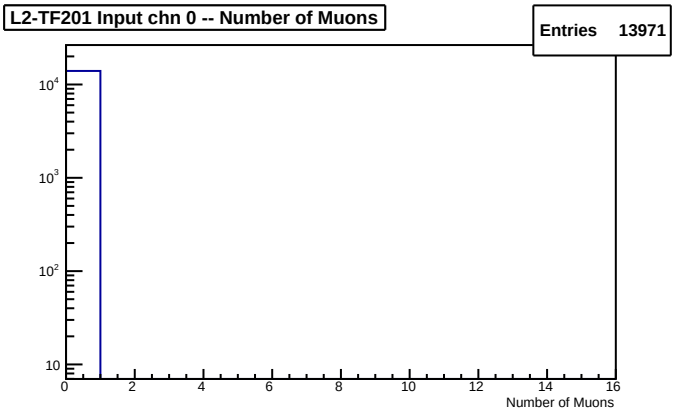

L2-TF201
Entries 0
TOF total mult(Real-Simu)

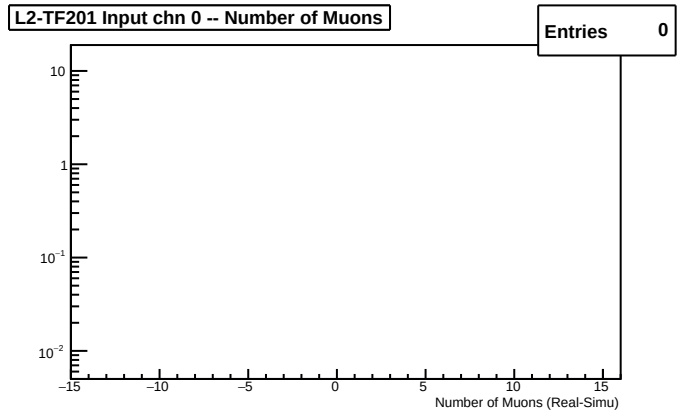

L2-TF201
Entries 97797
Threshold/UPC bits
7700 7613 441 7478 7644 7445 8090
6271 6358 13530 6493 6327 6526 5881
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

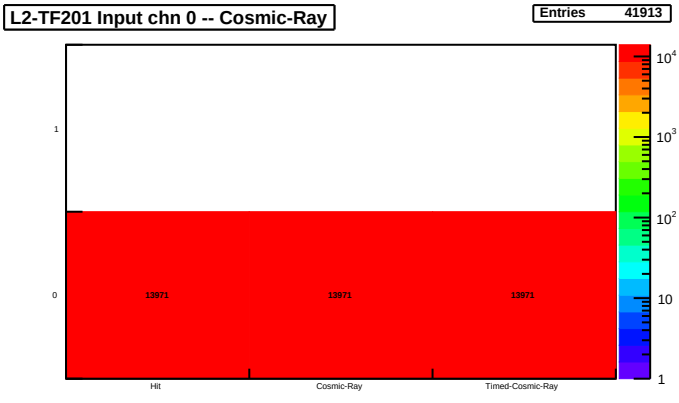

L2-TF201
Entries 0
Threshold bits/UPC (Real-Simu)
TF001 TF002 TF003 TF004 TF005 TF006 UPC
TOF sector/UPC

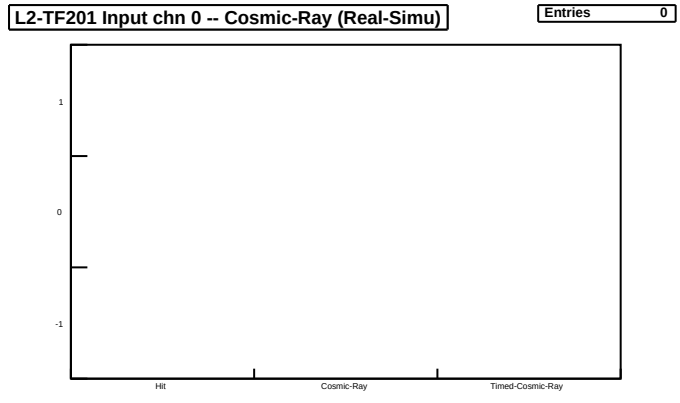

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 111768
Fired
375 363 2101 2058 1443 1409 1293 1478
13596 13608 11870 11913 12528 12562 12678 12493
ET IT EOR WOR EU ED WU WD
Bit

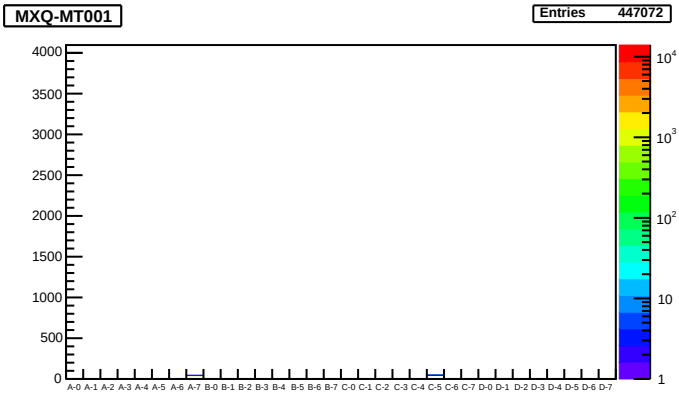

L2-TF201 Input Ch4 -- PP101 (Roman Plot)
Entries 0
Fired(Real-Simu)
ET IT EOR WOR EU ED WU WD
Bit

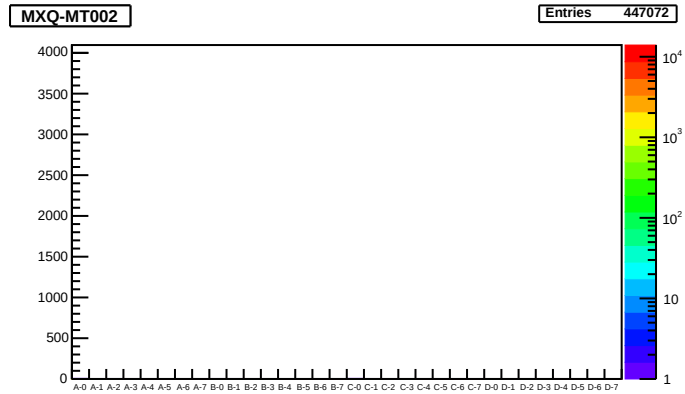

L2-TF201 Input chn 0 -- Number of Muons
Entries 13971
Number of Muons

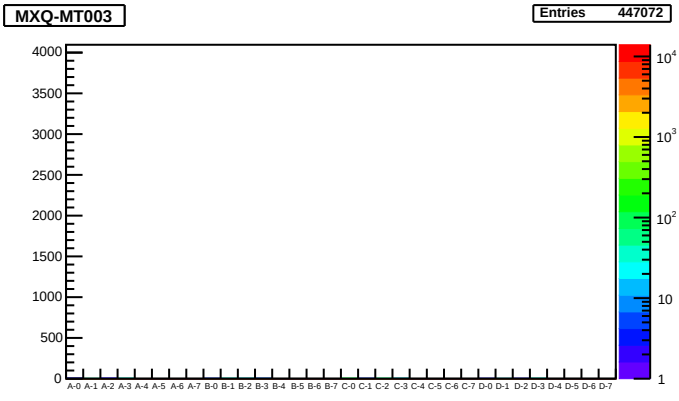

L2-TF201 Input chn 0 -- Number of Muons
Entries 0
Number of Muons (Real-Simu)

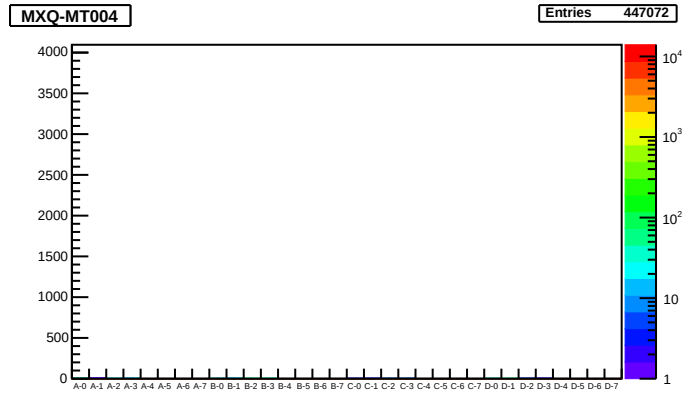

L2-TF201 Input chn 0 -- Cosmic-Ray
Entries 41913
13971
13971
13971
Hit
Cosmic-Ray
Timed-Cosmic-Ray

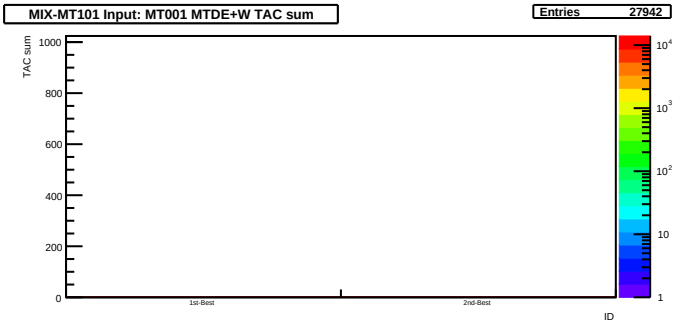

L2-TF201 Input chn 0 -- Cosmic-Ray (Real-Simu)
Entries 0
Hit
Cosmic-Ray
Timed-Cosmic-Ray

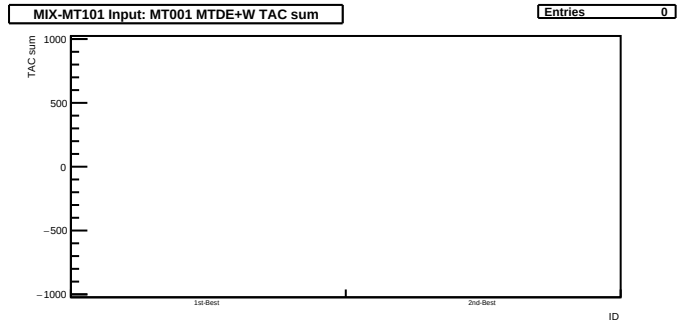

MXQ-MT001
Entries 447072
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^4
10^3
10^2
10
1

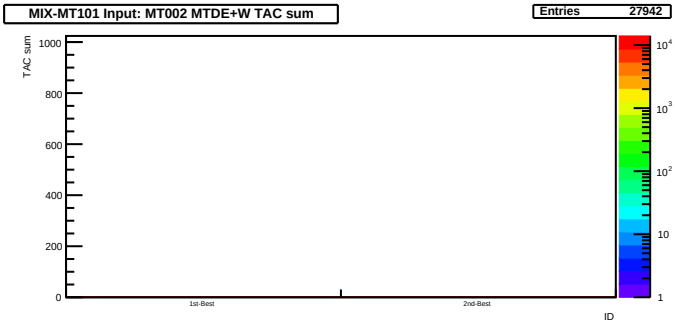

MXQ-MT002
Entries 447072
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^4
10^3
10^2
10
1

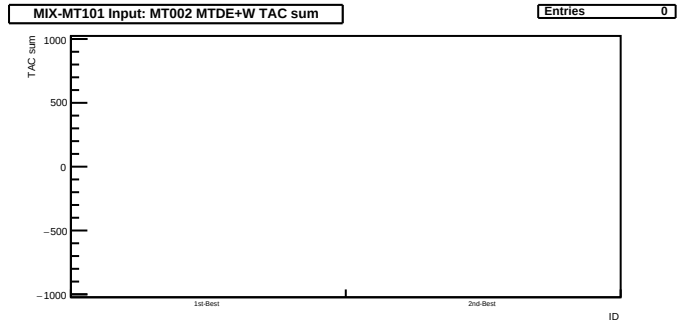

MXQ-MT003
Entries 447072
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^4
10^3
10^2
10
1

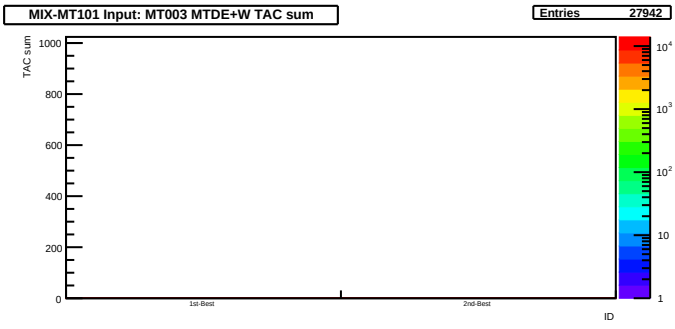

MXQ-MT004
Entries 447072
4000
3500
3000
2500
2000
1500
1000
500
0
A-0 A-1 A-2 A-3 A-4 A-5 A-6 A-7 B-0 B-1 B-2 B-3 B-4 B-5 B-6 B-7 C-0 C-1 C-2 C-3 C-4 C-5 C-6 C-7 D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7
10^4
10^3
10^2
10
1

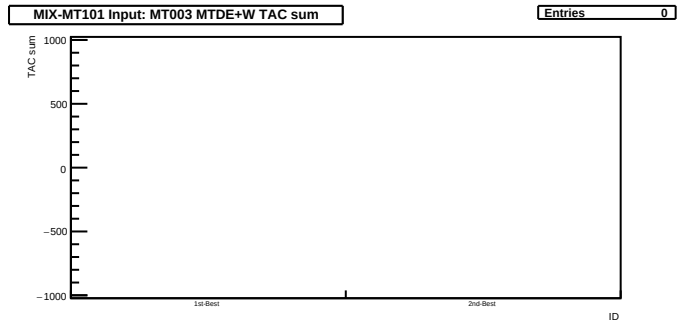

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 27942
TAC sum
1st-Best
2nd-Best
ID

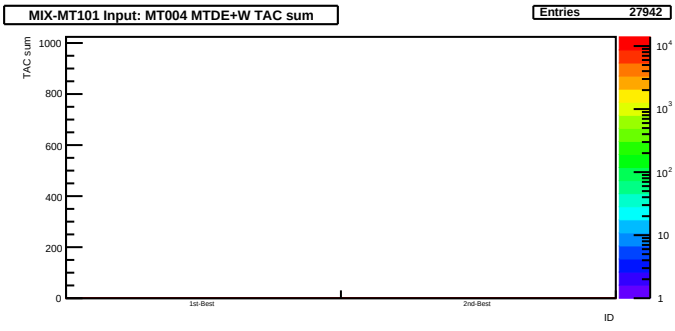

MIX-MT101 Input: MT001 MTDE+W TAC sum
Entries 0
TAC sum
1st-Best
2nd-Best
ID

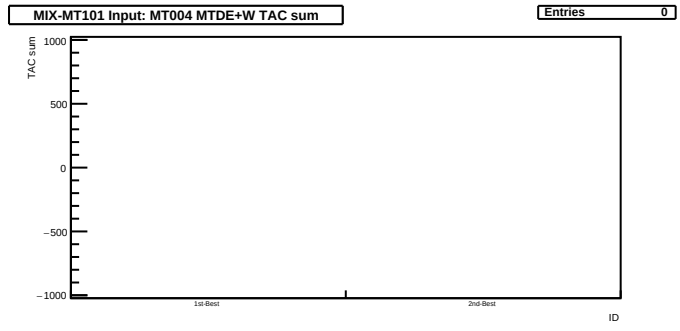

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 27942
TAC sum
1st-Best
2nd-Best
ID

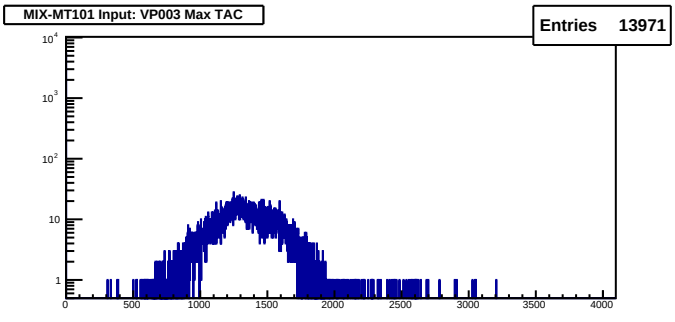

MIX-MT101 Input: MT002 MTDE+W TAC sum
Entries 0
TAC sum
1st-Best
2nd-Best
ID

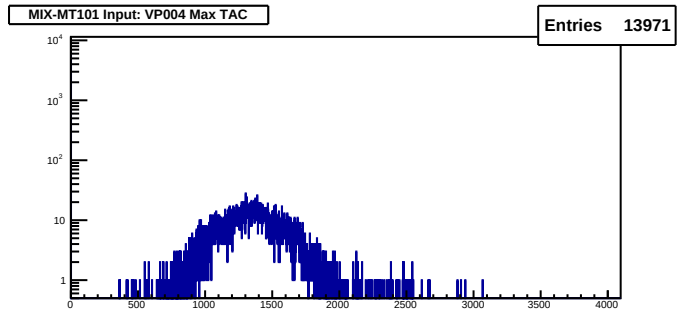

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 27942
TAC sum
1st-Best
2nd-Best
ID

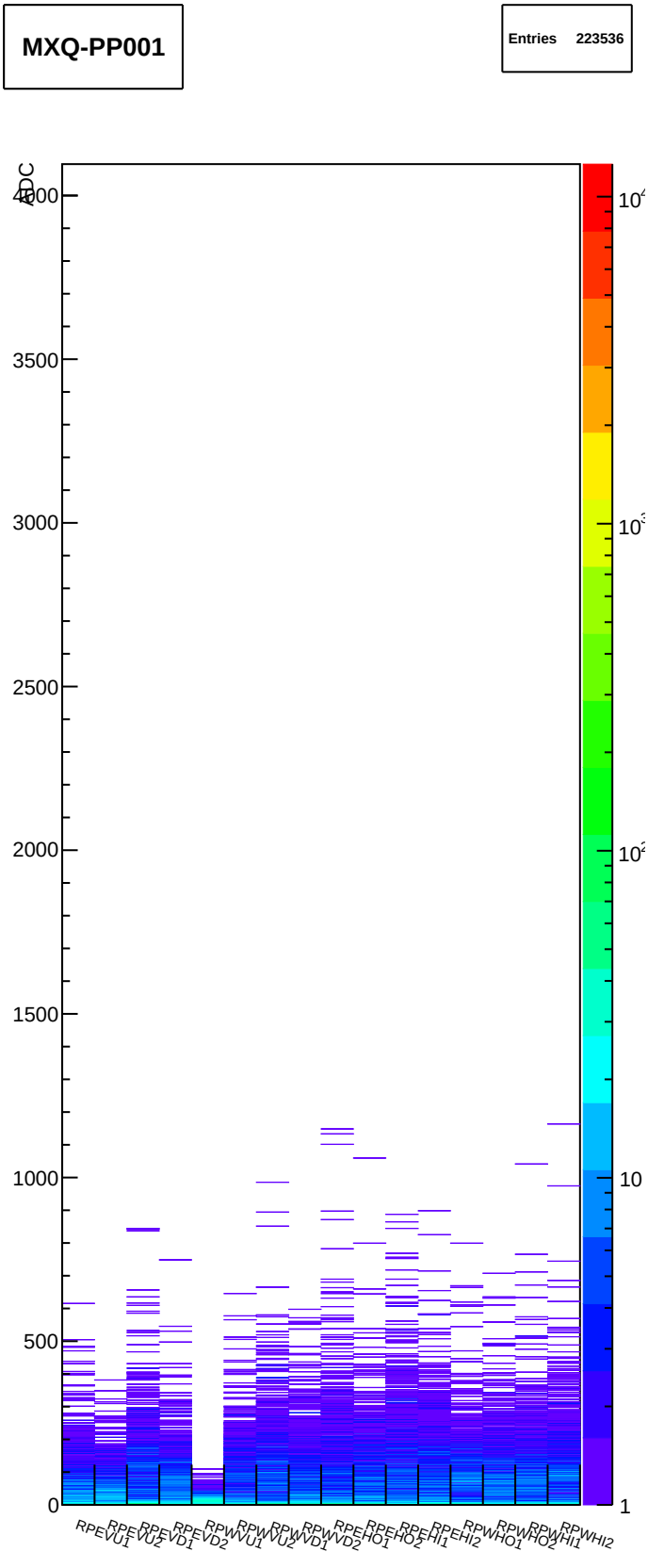

MIX-MT101 Input: MT003 MTDE+W TAC sum
Entries 0
TAC sum
1st-Best
2nd-Best
ID

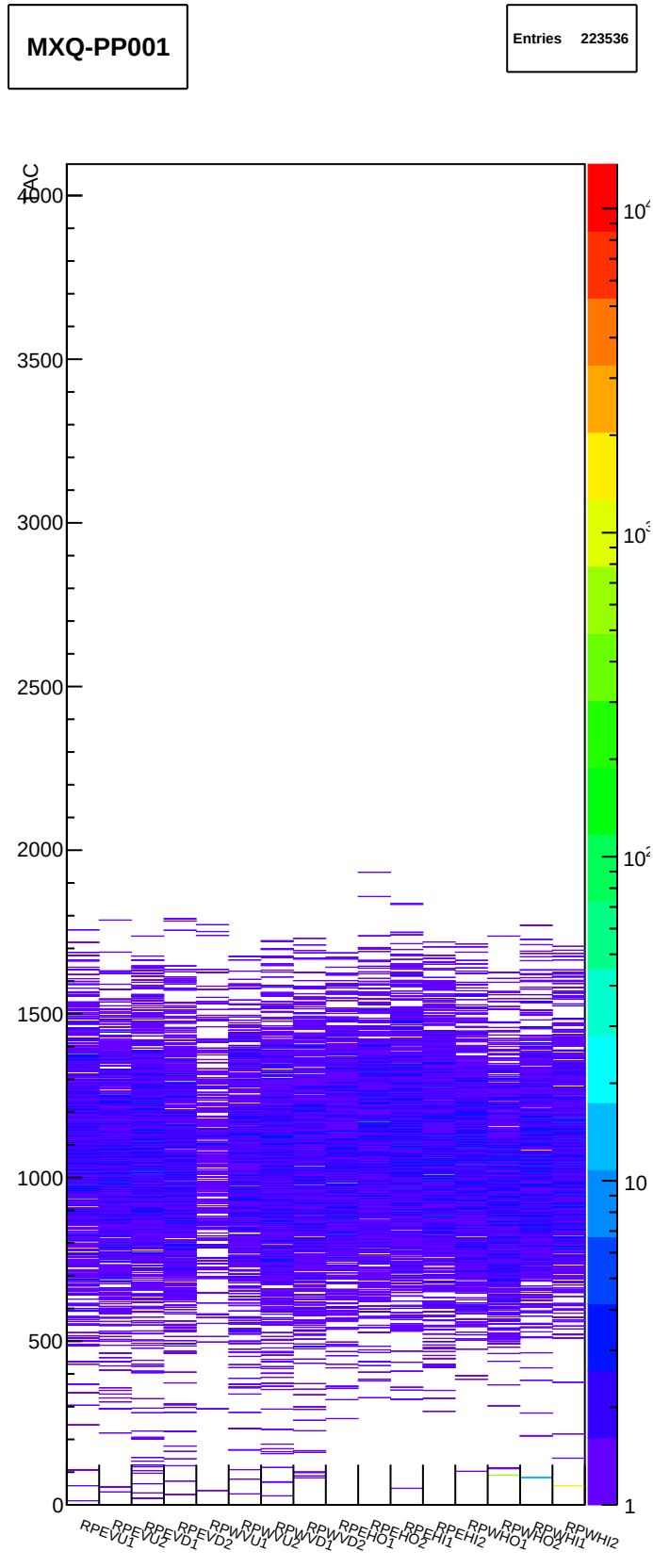

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 27942
TAC sum
1st-Best
2nd-Best
ID

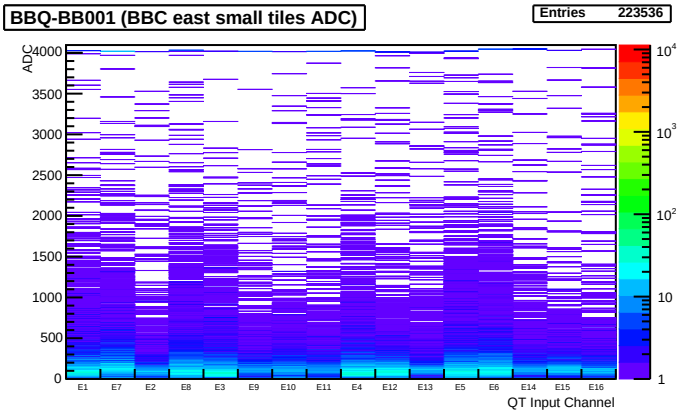

MIX-MT101 Input: MT004 MTDE+W TAC sum
Entries 0
TAC sum
1st-Best
2nd-Best
ID

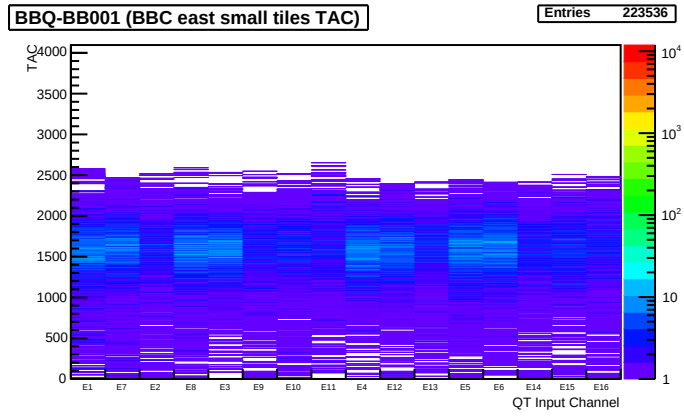

MIX-MT101 Input: VP003 Max TAC
Entries 13971

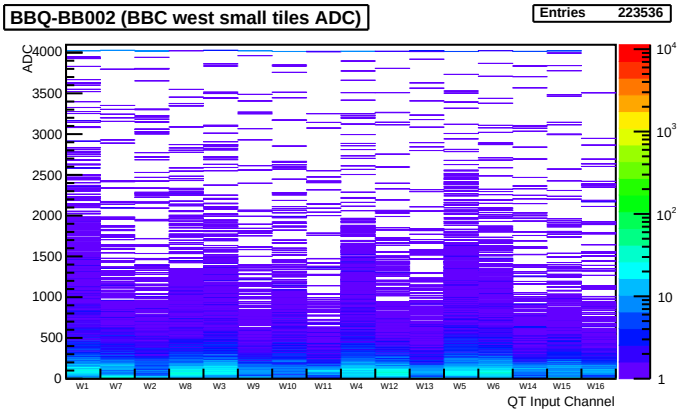

MIX-MT101 Input: VP004 Max TAC
Entries 13971

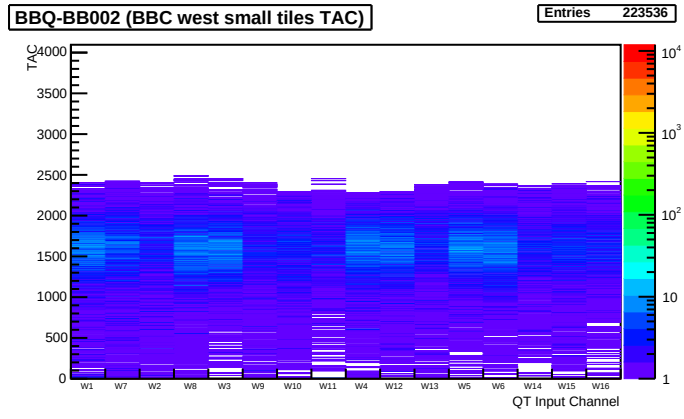

MXQ-PP001
Entries 223536
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10⁴
10³
10²
10
1

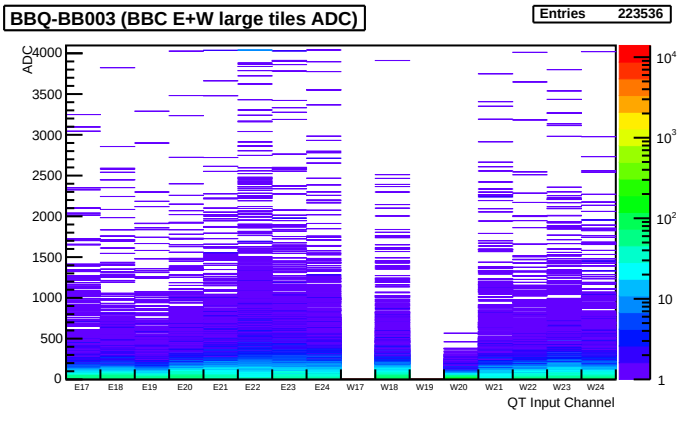

MXQ-PP001
Entries 223536
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
RPEVU1
RPEVU2
RPEVD1
RPEVD2
RPWVU1
RPWVU2
RPWVD1
RPWVD2
RPEHO1
RPEHO2
RPEHI1
RPEHI2
RPWHO1
RPWHO2
RPWHI1
RPWHI2
10⁴
10³
10²
10
1

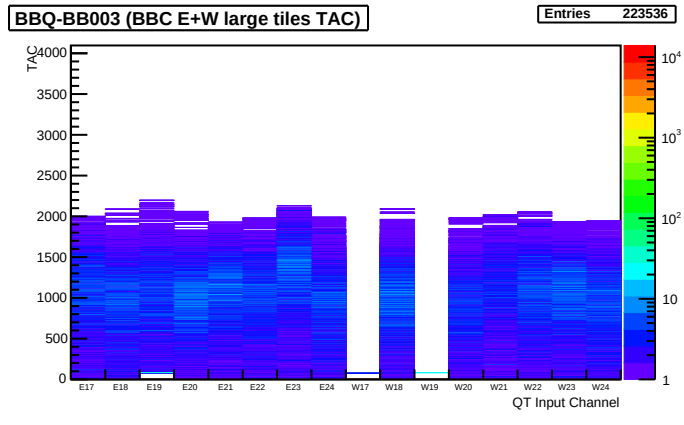

BBQ-BB001 (BBC east small tiles ADC)
Entries 223536
ADC
QT Input Channel

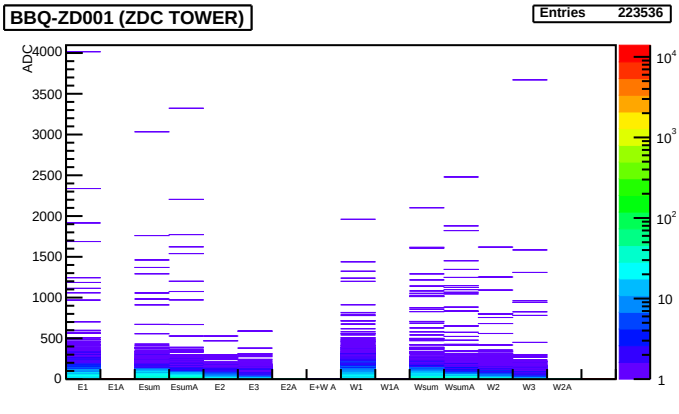

BBQ-BB001 (BBC east small tiles TAC)
Entries 223536
TAC
QT Input Channel

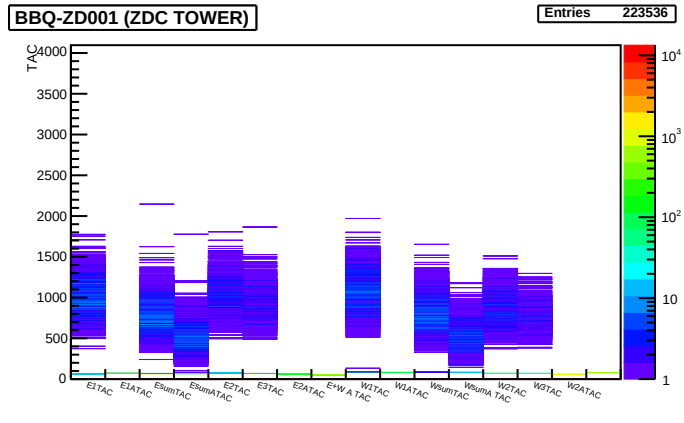

BBQ-BB002 (BBC west small tiles ADC)
Entries 223536
ADC
QT Input Channel

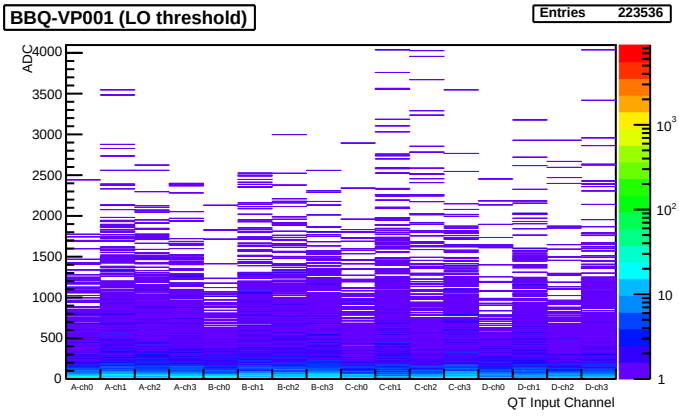

BBQ-BB002 (BBC west small tiles TAC)
Entries 223536
TAC
QT Input Channel

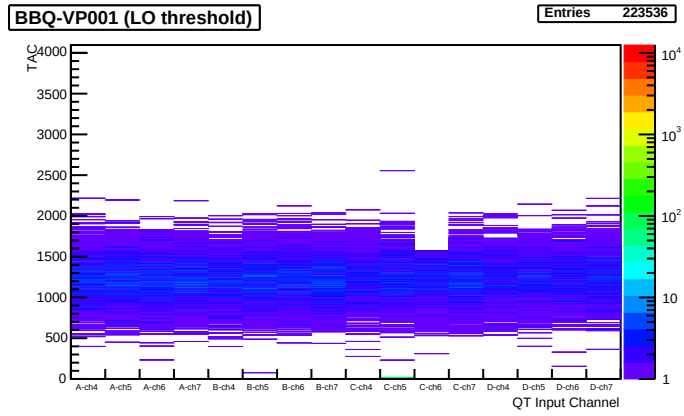

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 223536
ADC
QT Input Channel

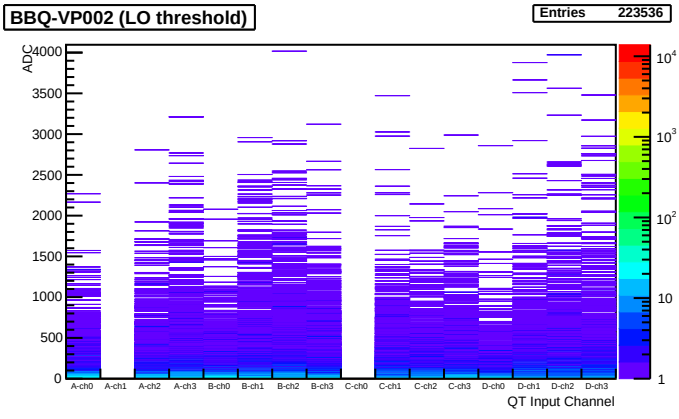

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 223536
TAC
QT Input Channel

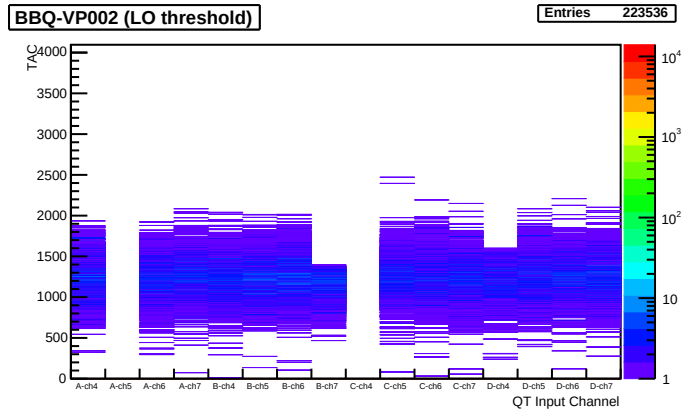

BBQ-ZD001 (ZDC TOWER)
Entries 223536
ADC

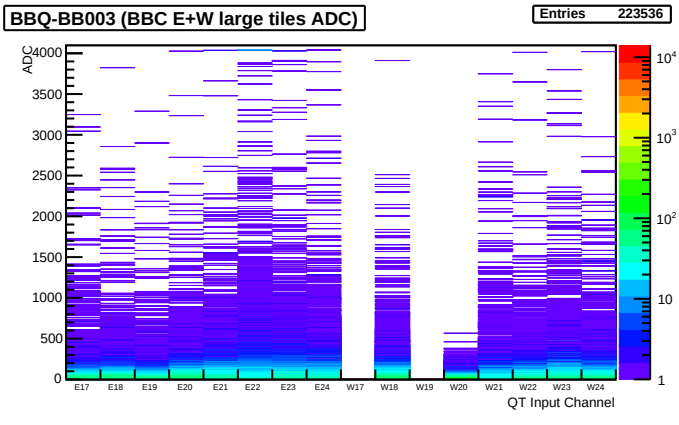

BBQ-ZD001 (ZDC TOWER)
Entries 223536
TAC

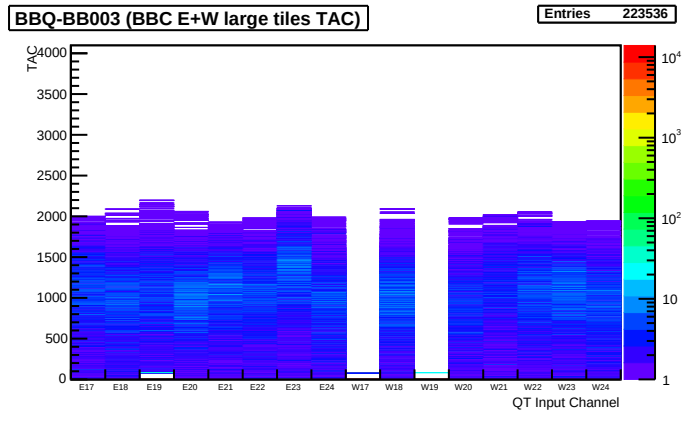

BBQ-VP001 (LO threshold)
Entries 223536
ADC
QT Input Channel

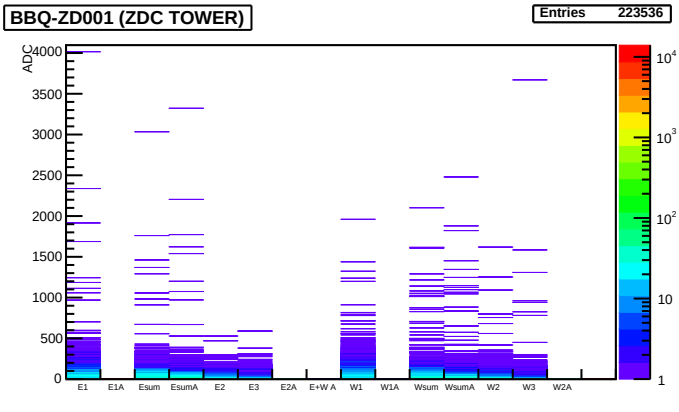

BBQ-VP001 (LO threshold)
Entries 223536
TAC
QT Input Channel

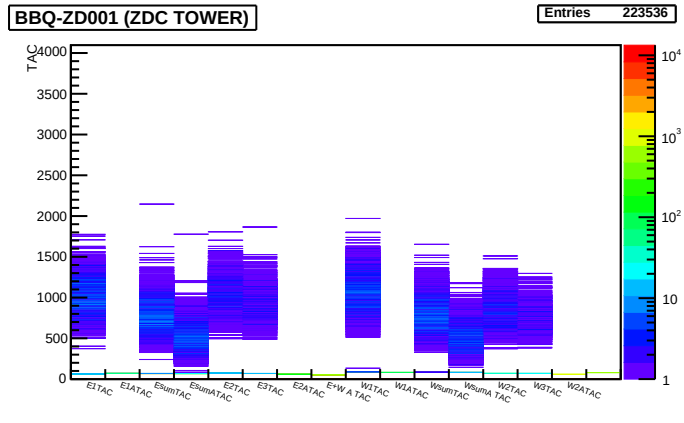

BBQ-VP002 (LO threshold)
Entries 223536
ADC
QT Input Channel

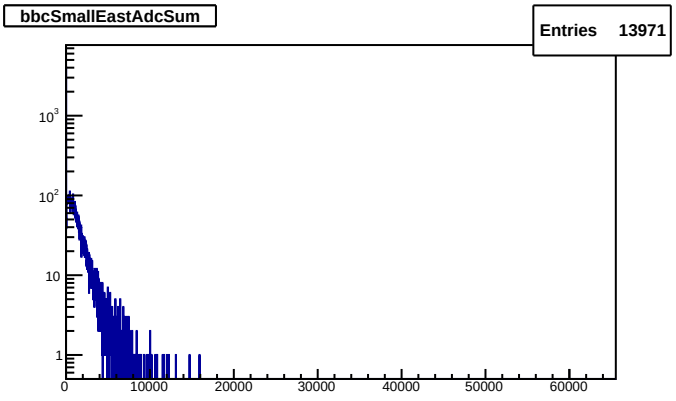

BBQ-VP002 (LO threshold)
Entries 223536
TAC
QT Input Channel

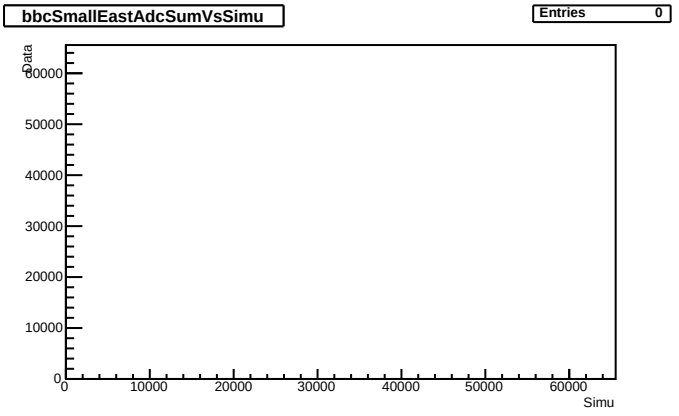

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 223536
ADC
QT Input Channel

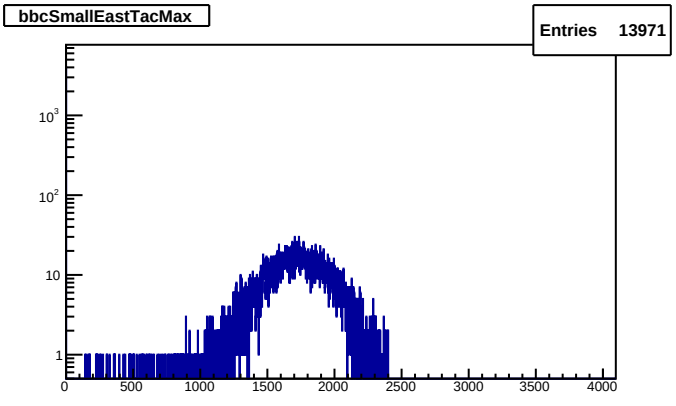

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 223536
TAC
QT Input Channel

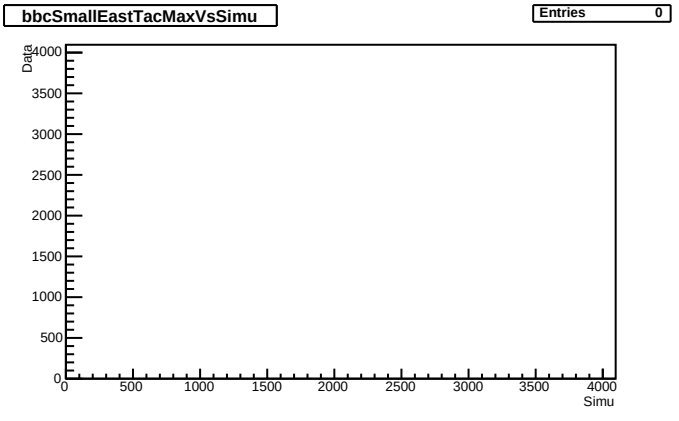

BBQ-ZD001 (ZDC TOWER)
Entries 223536
ADC

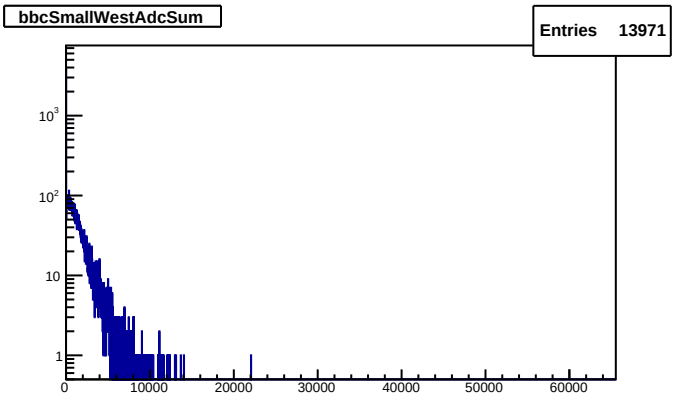

BBQ-ZD001 (ZDC TOWER)
Entries 223536
TAC

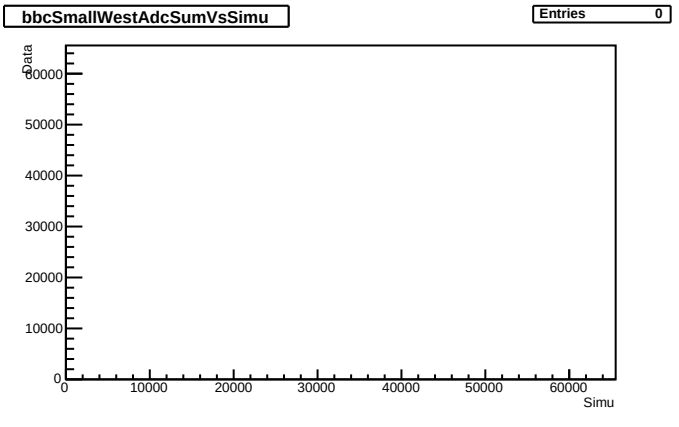

bbcSmallEastAdcSum
Entries 13971

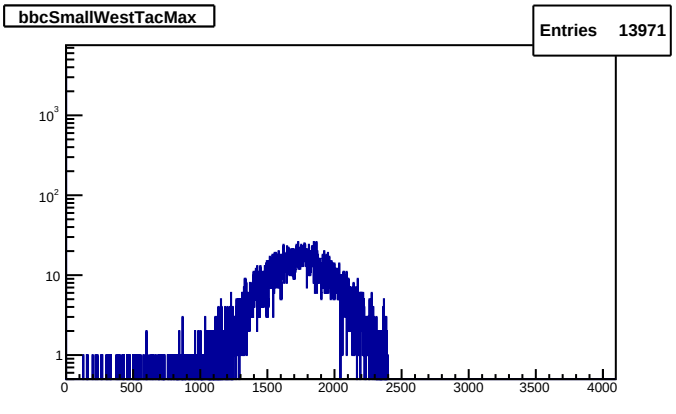

bbcSmallEastAdcSumVsSimu
Entries 0
Data
Simu

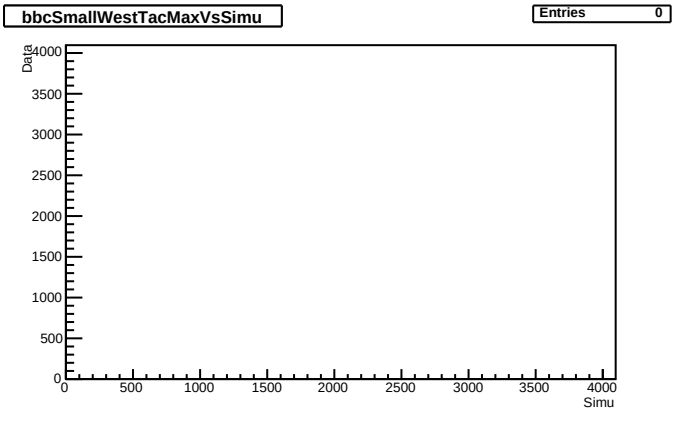

bbcSmallEastTacMax
Entries 13971

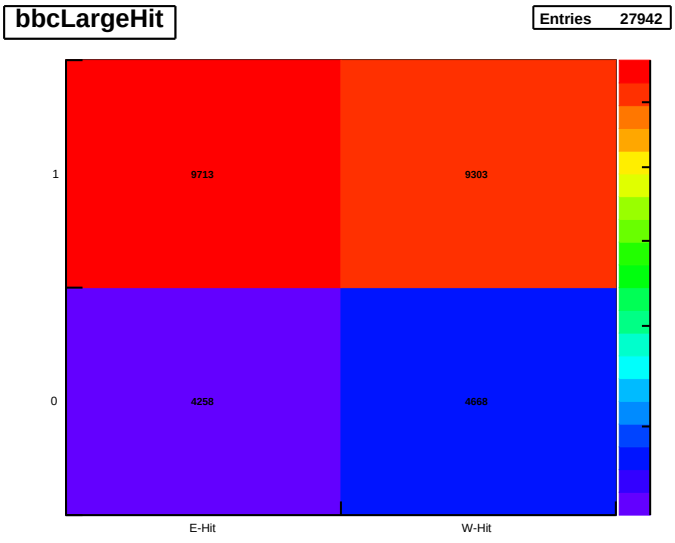

bbcSmallEastTacMaxVsSimu
Entries 0
Data
Simu

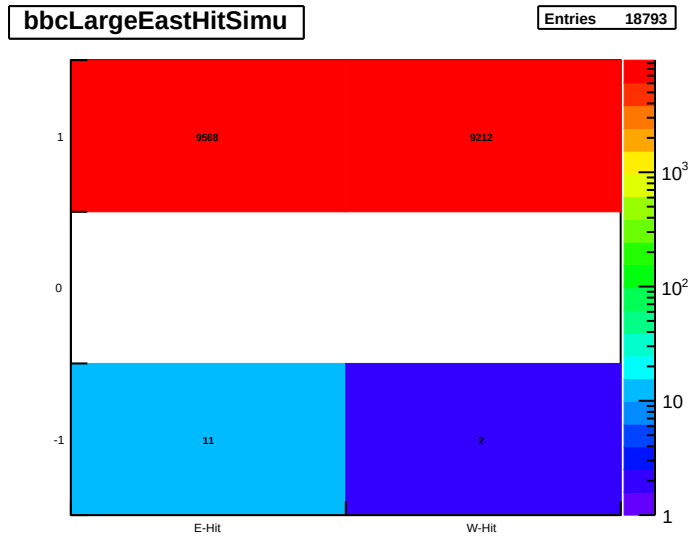

bbcSmallWestAdcSum
Entries 13971

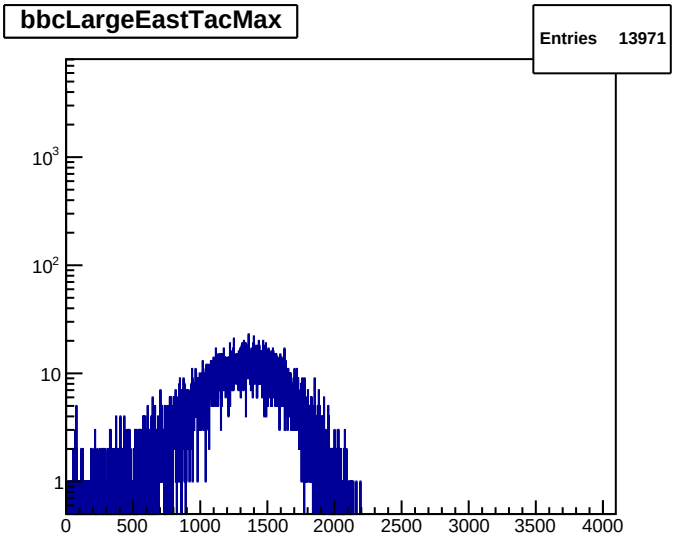

bbcSmallWestAdcSumVsSimu
Entries 0
Data
Simu

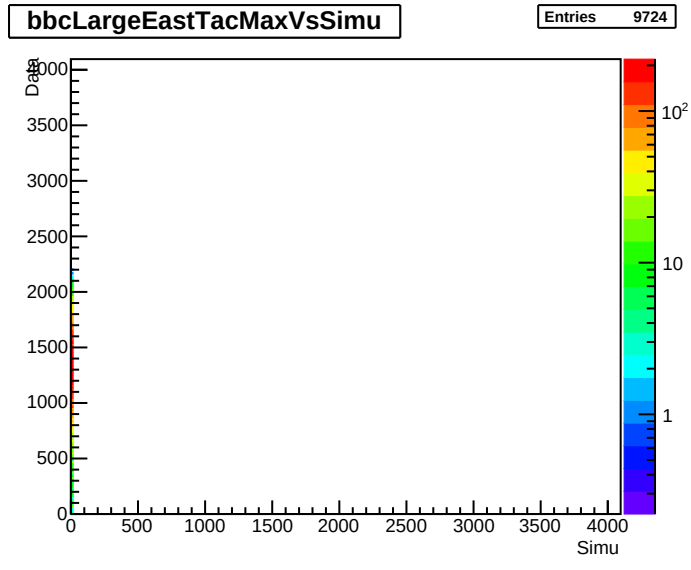

bbcSmallWestTacMax
Entries 13971

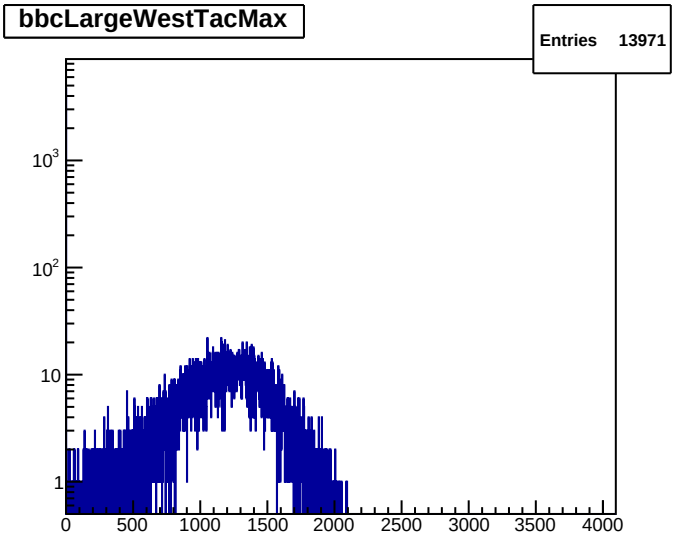

bbcSmallWestTacMaxVsSimu
Entries 0
Data
Simu

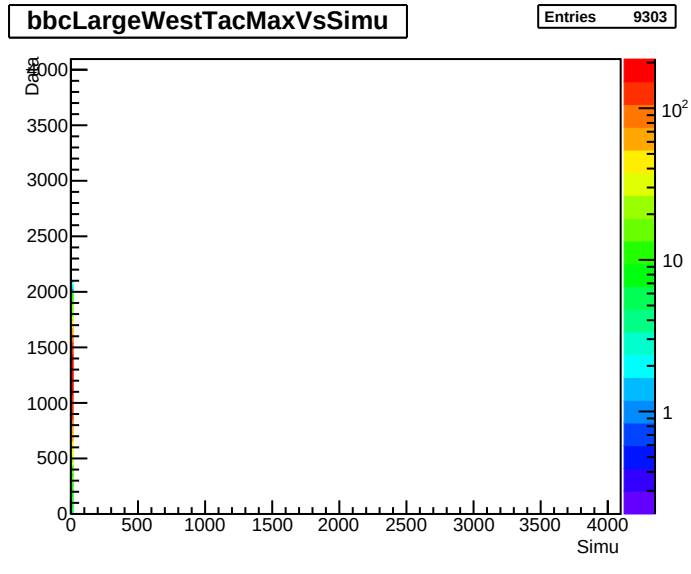

bbcLargeHit
Entries 27942
9713
9303
4258
4668
1
0
E-Hit
W-Hit

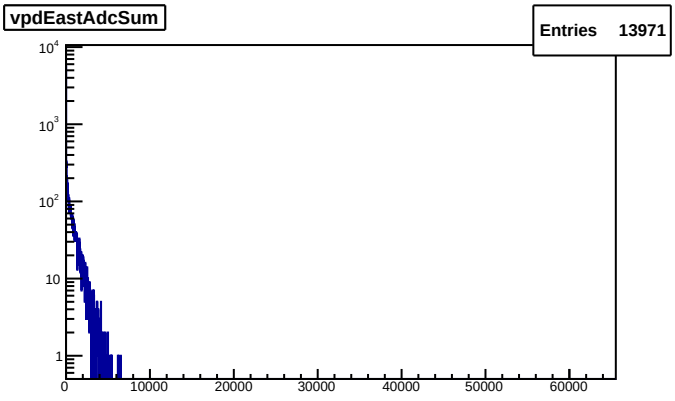

bbcLargeEastHitSimu
Entries 18793
9568
9212
11
2
1
0
-1
E-Hit
W-Hit
10^3
10^2
10
1

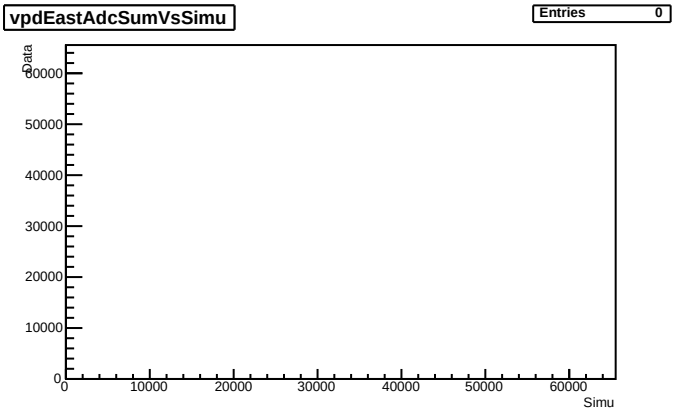

bbcLargeEastTacMax
Entries 13971
10^3
10^2
10
1
0
500
1000
1500
2000
2500
3000
3500
4000

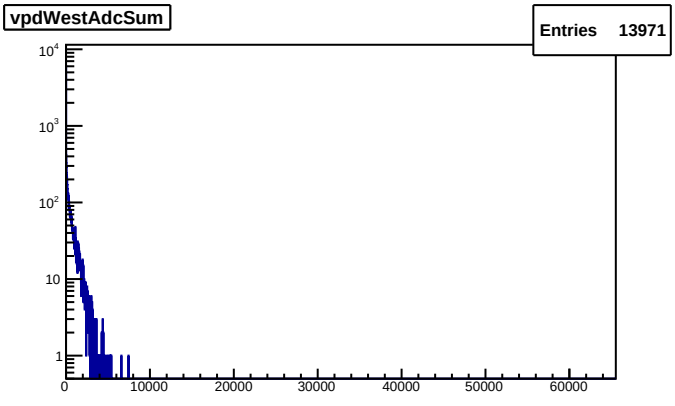

bbcLargeEastTacMaxVsSimu
Entries 9724
Data
Simu
0
500
1000
1500
2000
2500
3000
3500
4000
10^2
10
1

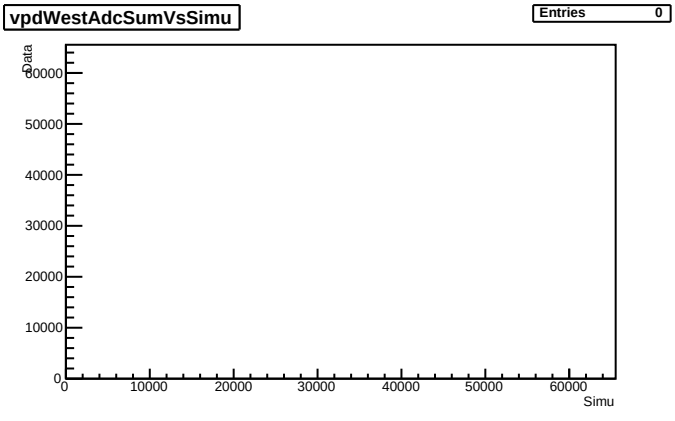

bbcLargeWestTacMax
Entries 13971
10^3
10^2
10
1
0
500
1000
1500
2000
2500
3000
3500
4000

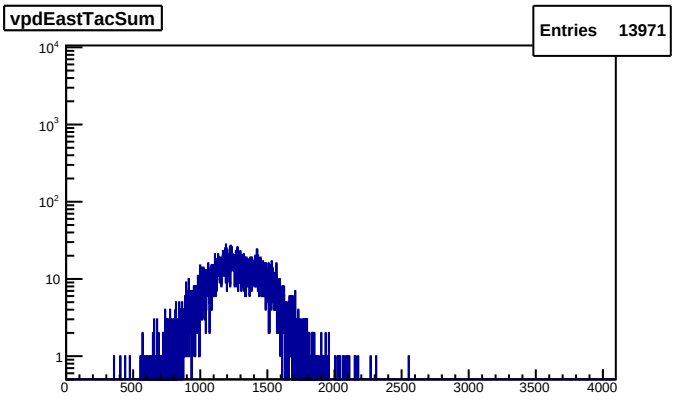

bbcLargeWestTacMaxVsSimu
Entries 9303
Data
Simu
0
500
1000
1500
2000
2500
3000
3500
4000
10^2
10
1

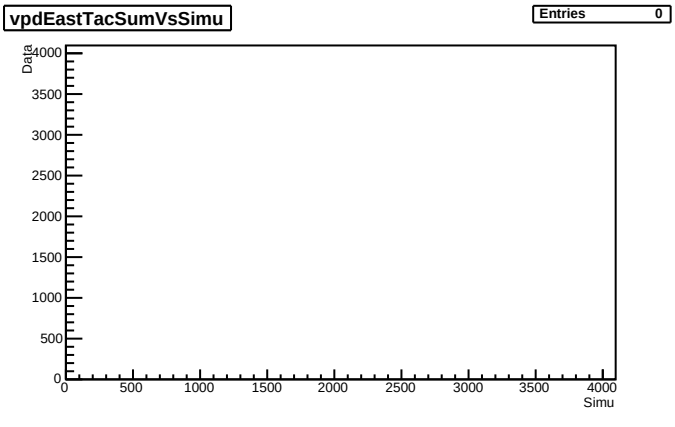

vpdEastAdcSum
Entries 13971

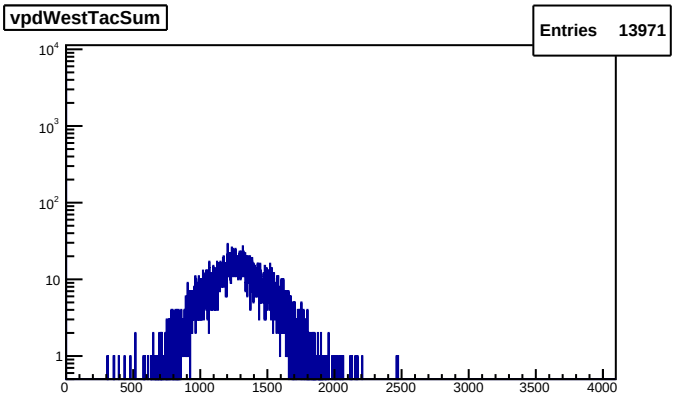

vpdEastAdcSumVsSimu
Entries 0
Data
Simu

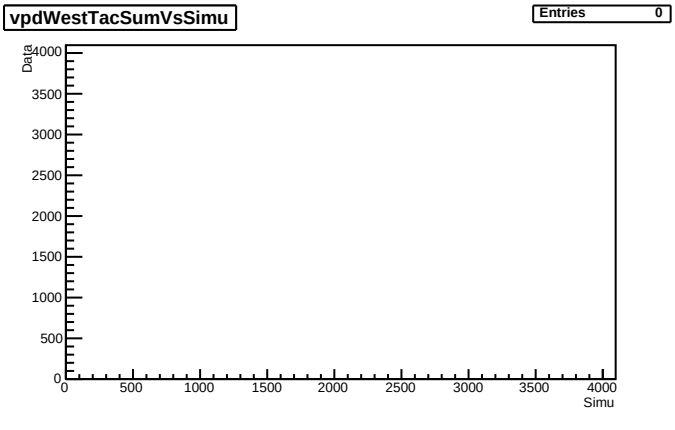

vpdWestAdcSum
Entries 13971

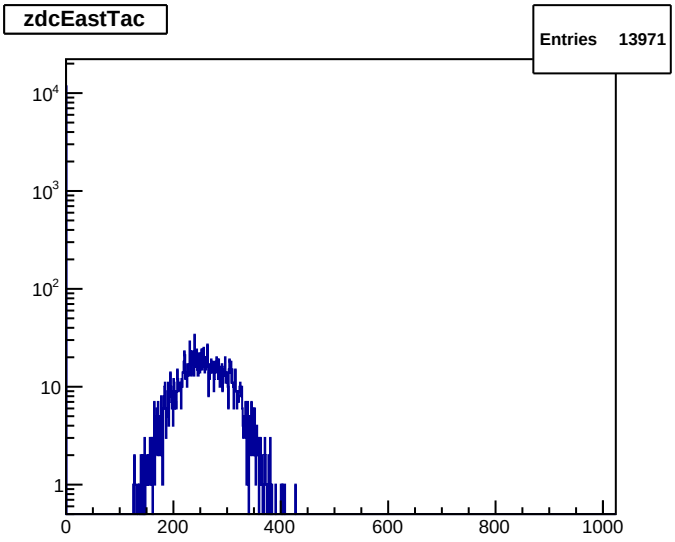

vpdWestAdcSumVsSimu
Entries 0
Data
Simu

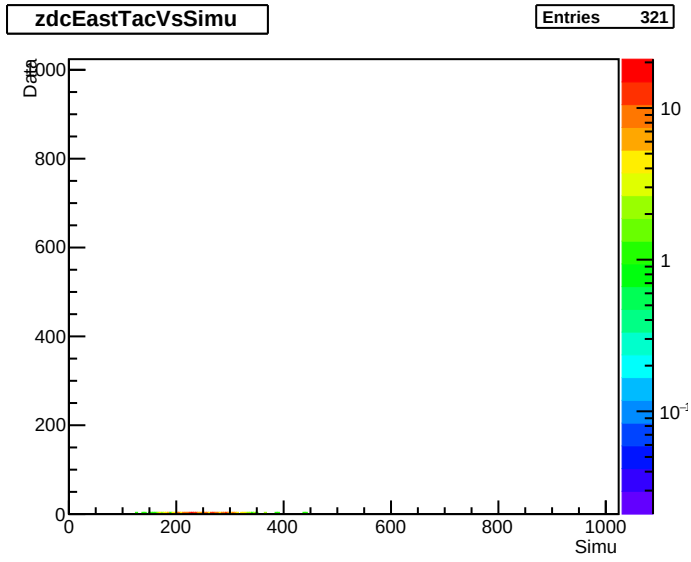

vpdEastTacSum
Entries 13971

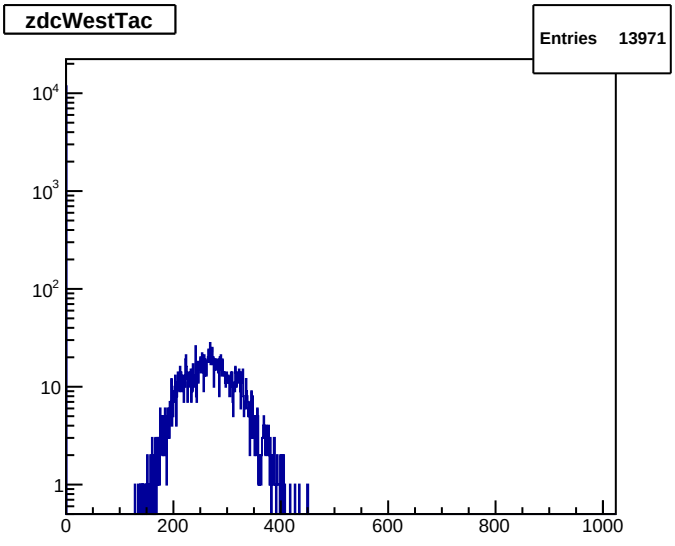

vpdEastTacSumVsSimu
Entries 0
Data
Simu

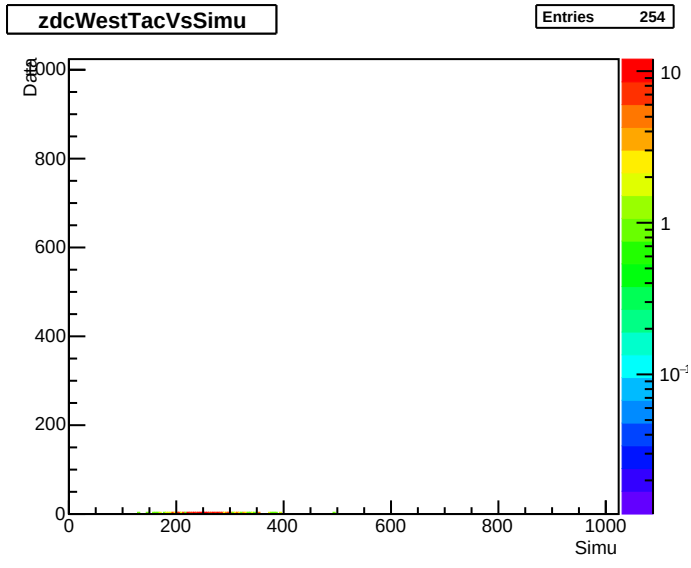

vpdWestTacSum
Entries 13971

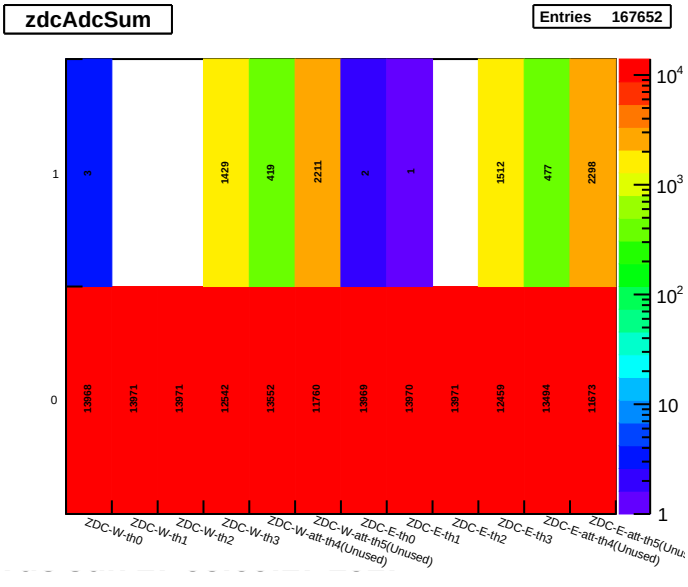

vpdWestTacSumVsSimu
Entries 0
Data
Simu

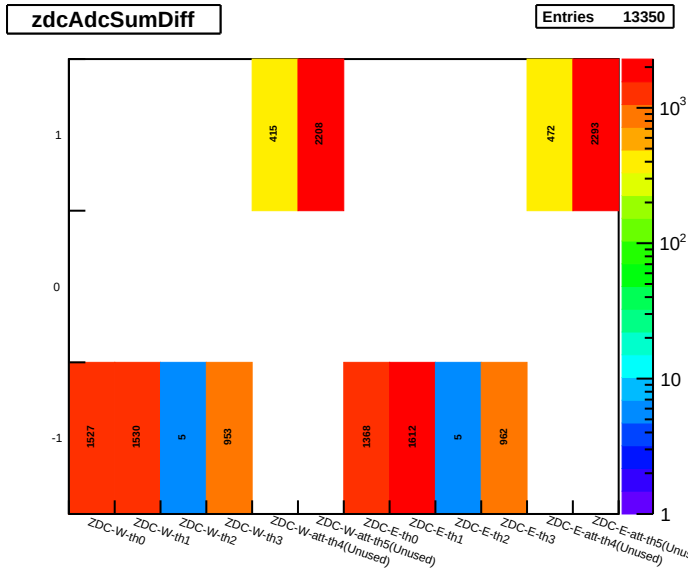

zdcEastTac
Entries 13971

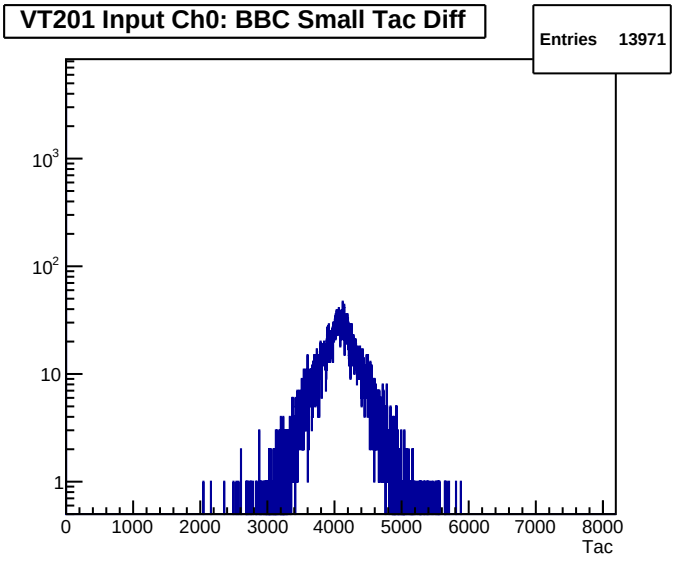

zdcEastTacVsSimu
Entries 321
Data
Simu

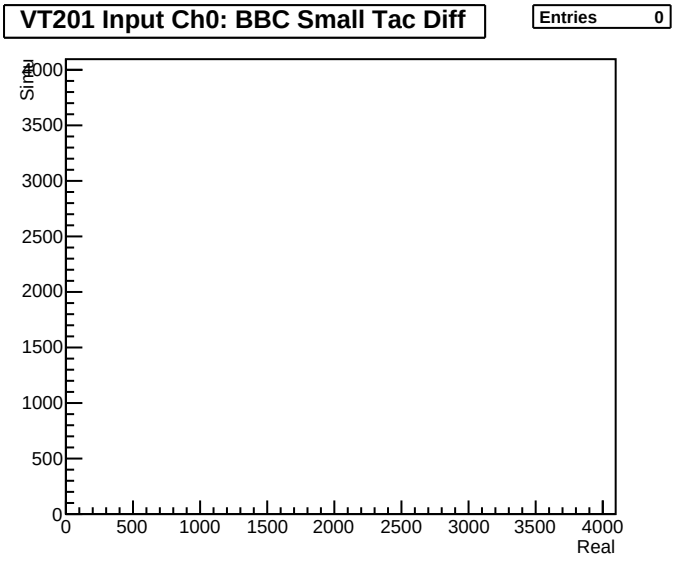

zdcWestTac
Entries 13971

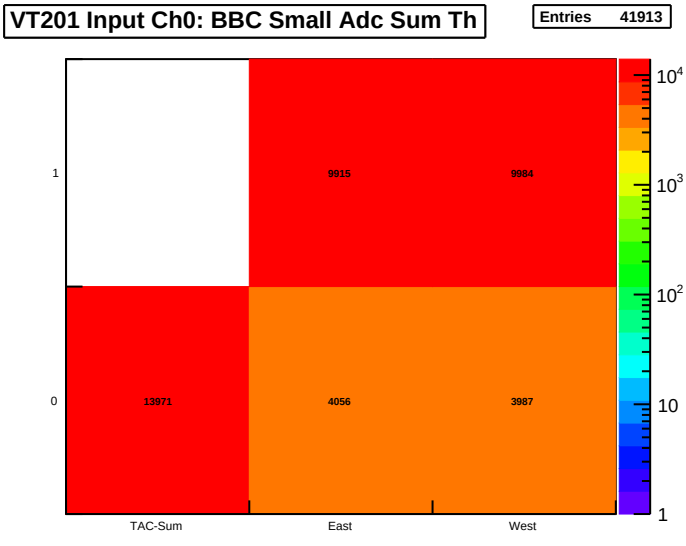

zdcWestTacVsSimu
Entries 254
Data
Simu

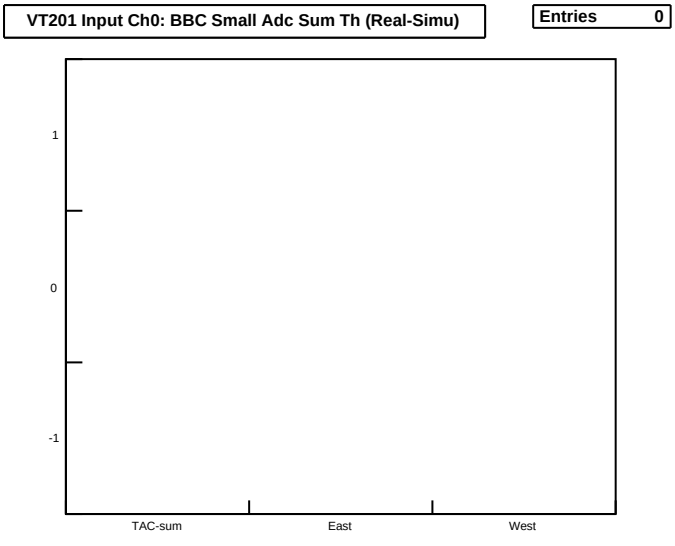

zdcAdcSum
Entries 167652
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

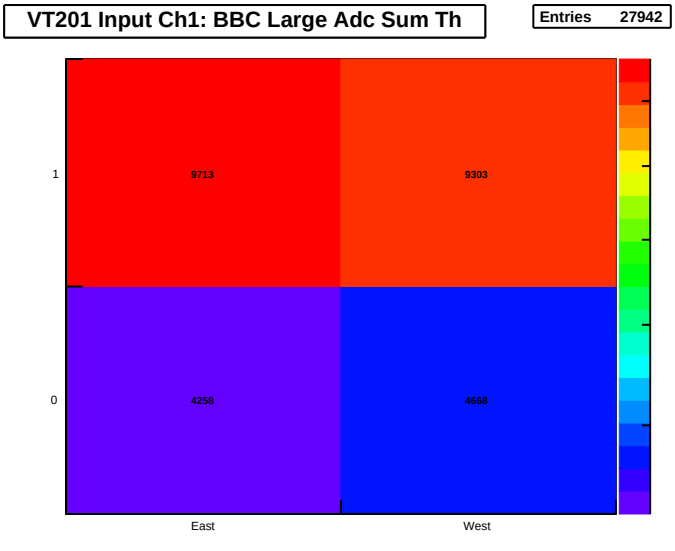

zdcAdcSumDiff
Entries 13350
ZDC-W-th0
ZDC-W-th1
ZDC-W-th2
ZDC-W-th3
ZDC-W-att-th4(Unused)
ZDC-W-att-th5(Unused)
ZDC-E-th0
ZDC-E-th1
ZDC-E-th2
ZDC-E-th3
ZDC-E-att-th4(Unused)

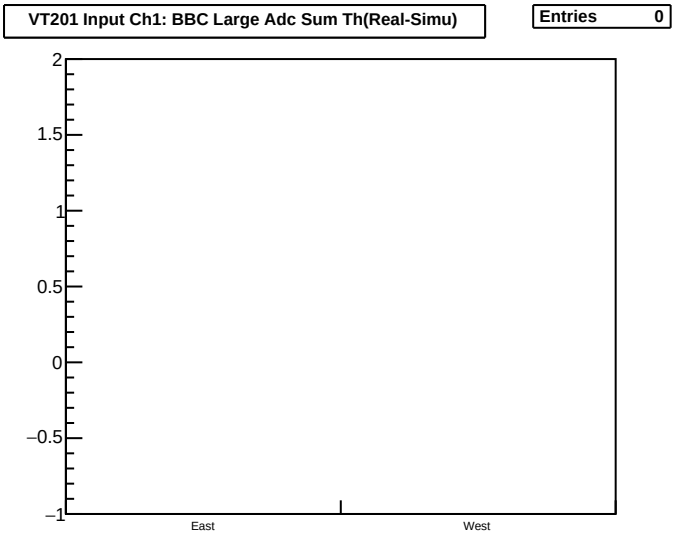

VT201 Input Ch0: BBC Small Tac Diff
Entries 13971
Tac


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

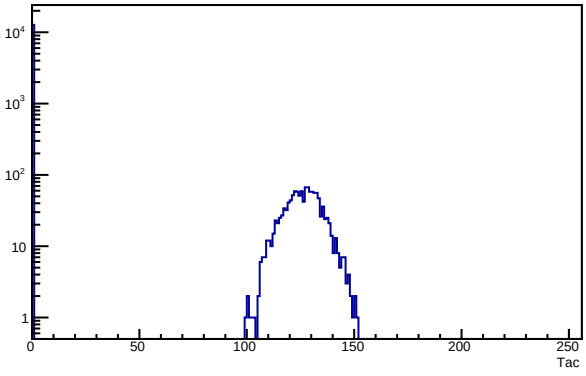

VT201 Input Ch0: BBC Small Adc Sum Th
Entries 41913
9915
9984
13971
4056
3987
TAC-Sum
East
West


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

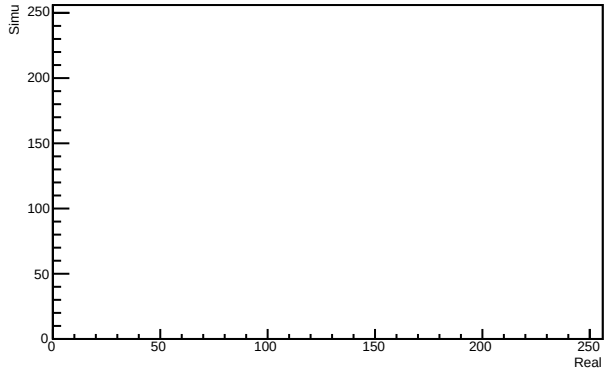

VT201 Input Ch1: BBC Large Adc Sum Th
Entries 27942
9713
9303
4258
4668
East
West


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

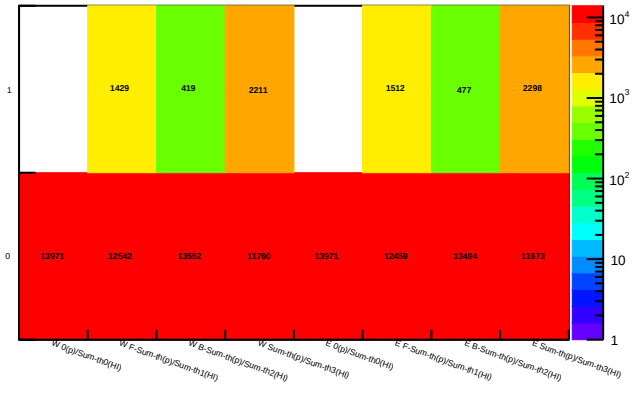
VT201 Input Ch2: ZDC Tac Diff



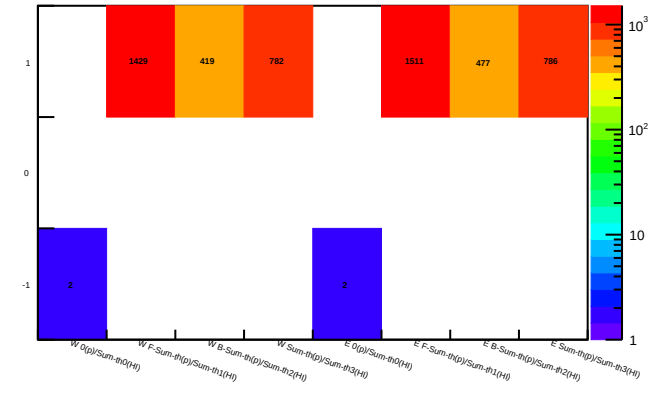
VT201 Input Ch2: ZDC Tac Diff



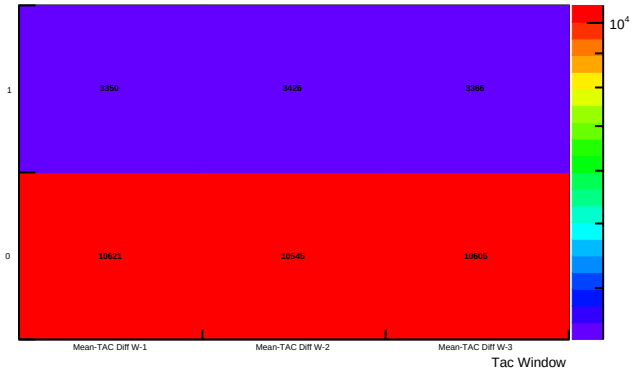
VT201 Input Ch2: ZDC Adc Sum Th



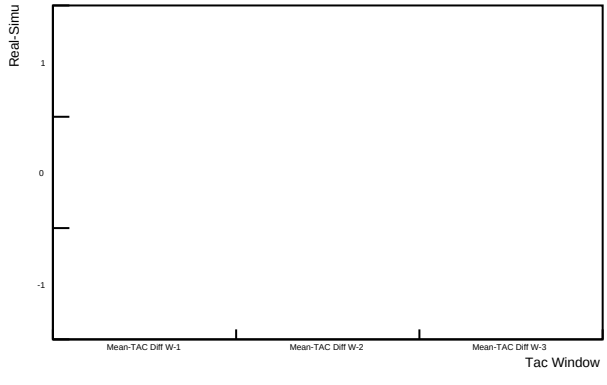
VT201 Input Ch2: ZDC Adc Sum Th (Real-Simu)



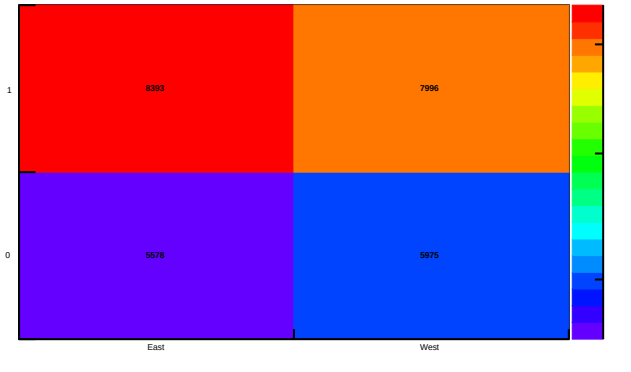
VT201 Input Ch4: VPD Tac Diff



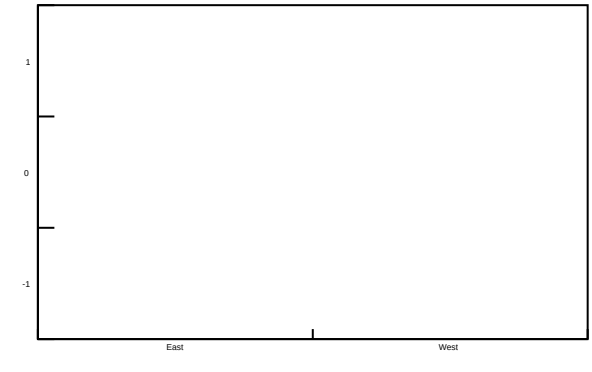
VT201 Input Ch4: VPD Tac Diff

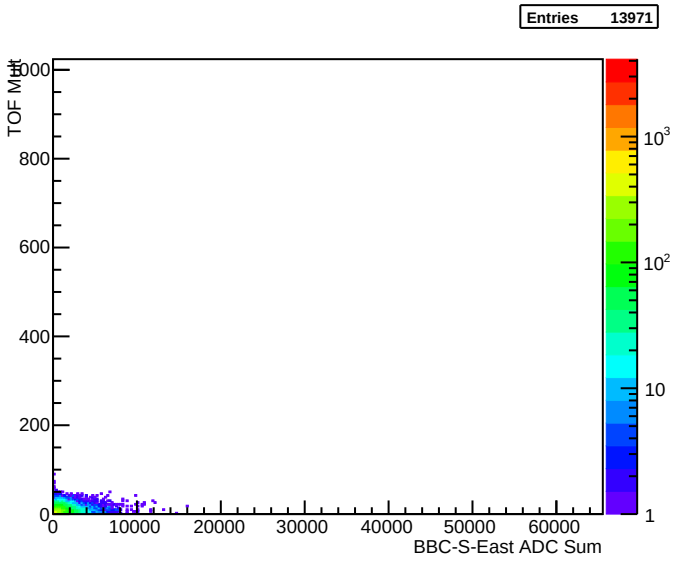


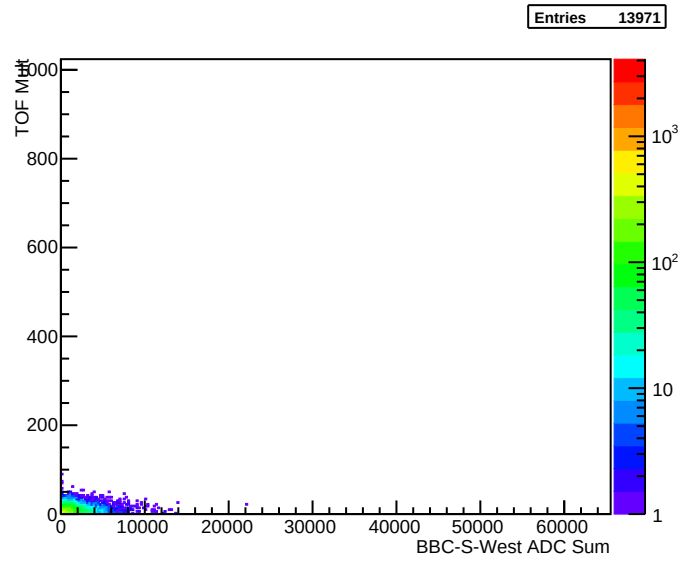
VT201 Input Ch4: VPD Adc Sum Th

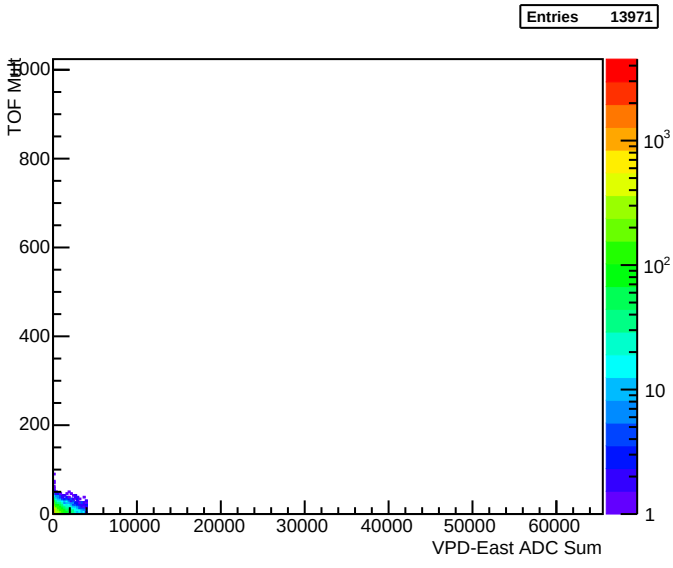


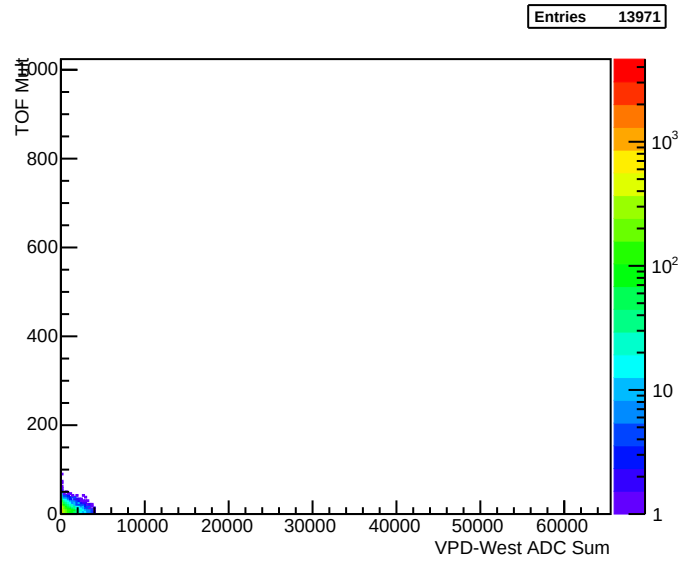
VT201 Input Ch4: VPD Adc Sum Th(Real-Simu)

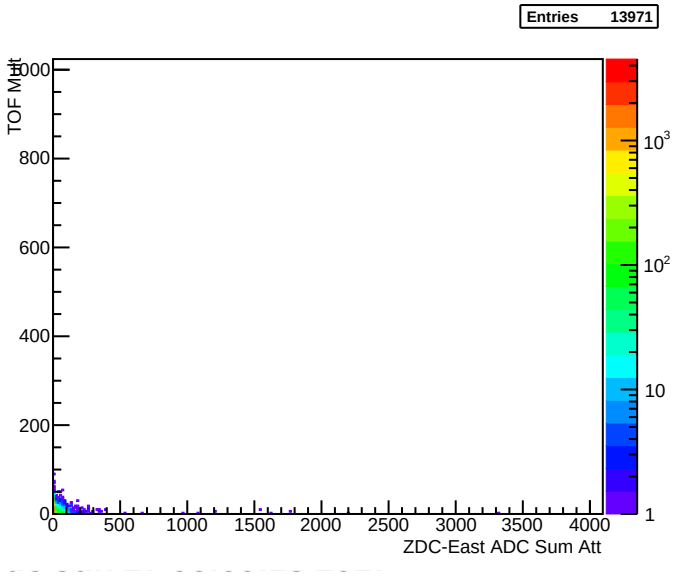


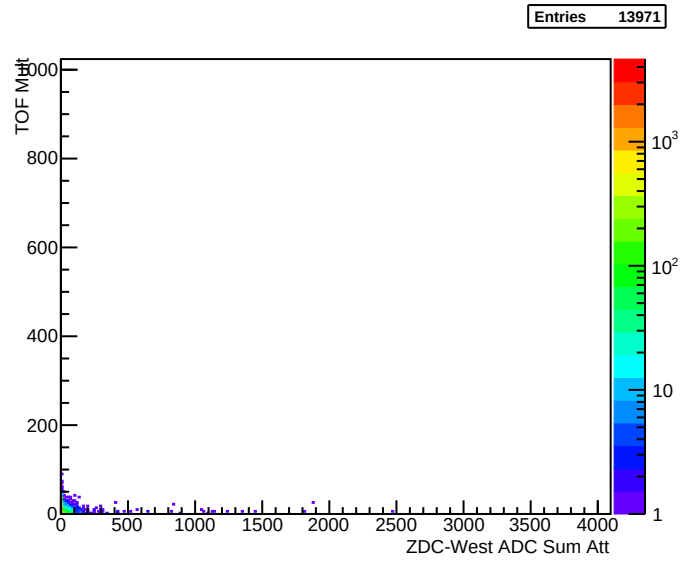

Entries 13971
TOF Mult
BBC-S-East ADC Sum

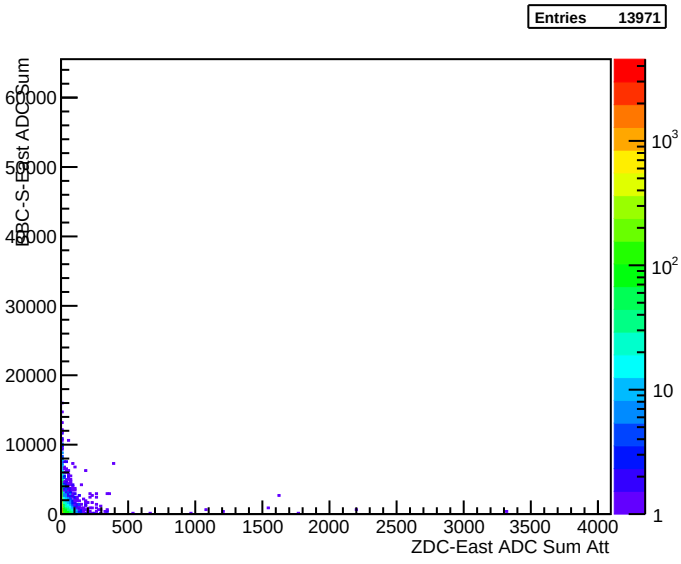

Entries 13971
TOF Mult
BBC-S-West ADC Sum

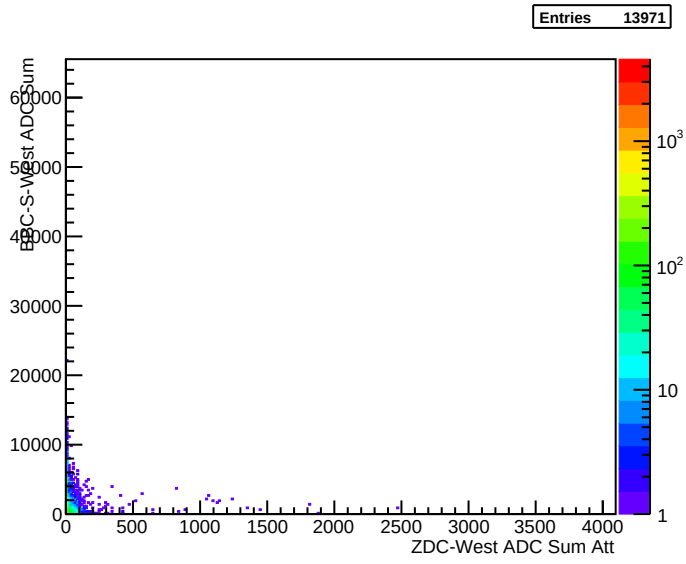

Entries 13971
TOF Mult
VPD-East ADC Sum

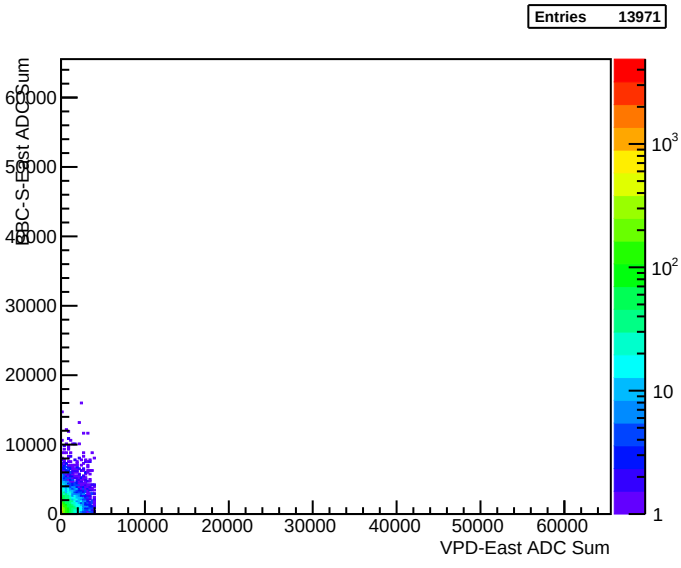

Entries 13971
TOF Mult
VPD-West ADC Sum

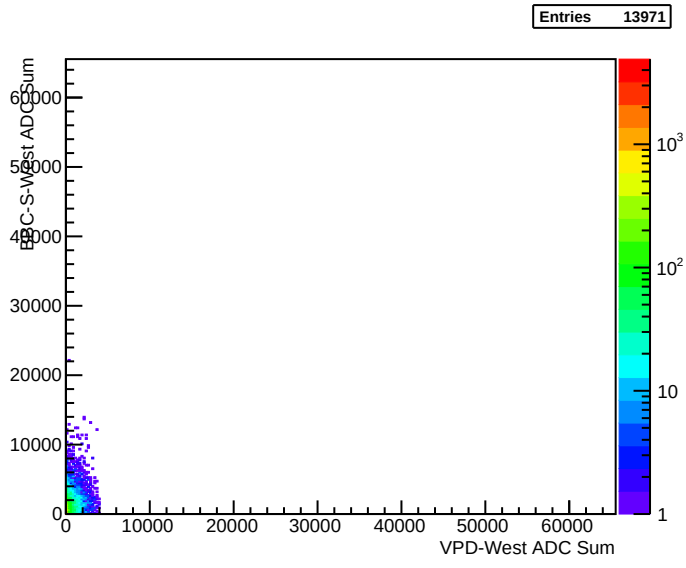

Entries 13971
TOF Mult
ZDC-East ADC Sum Att

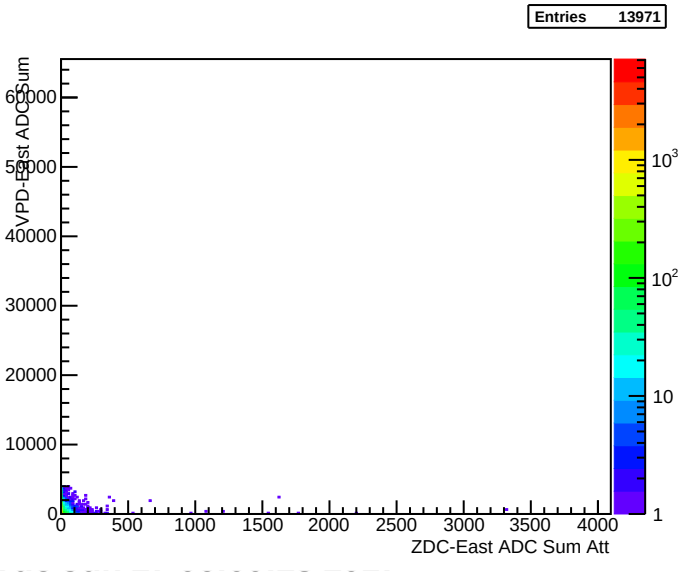

Entries 13971
TOF Mult
ZDC-West ADC Sum Att

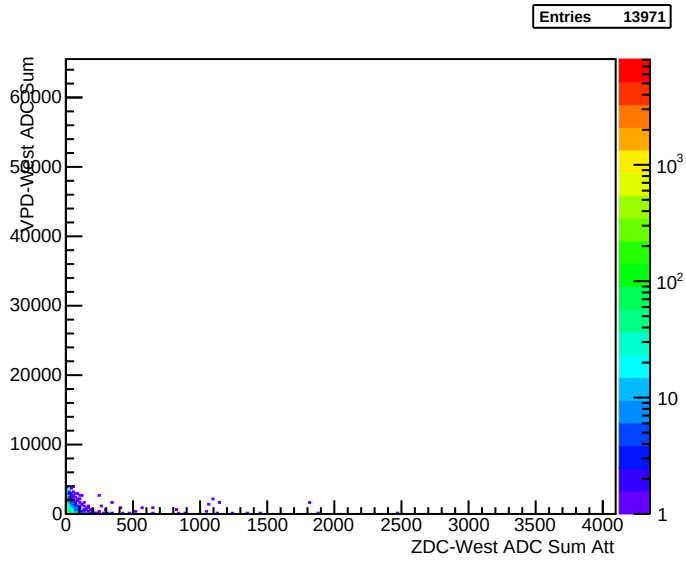

Entries 13971
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

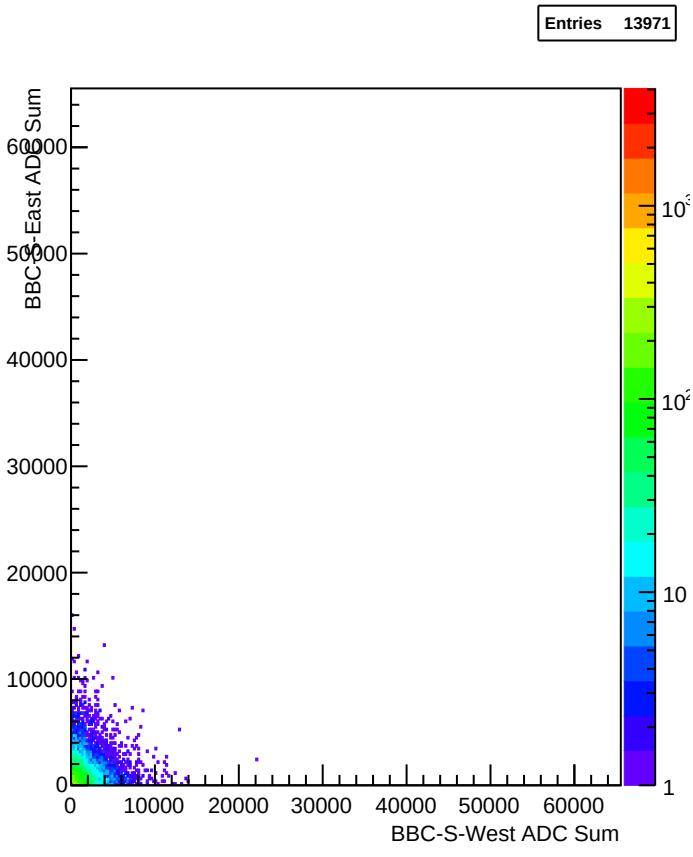

Entries 13971
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

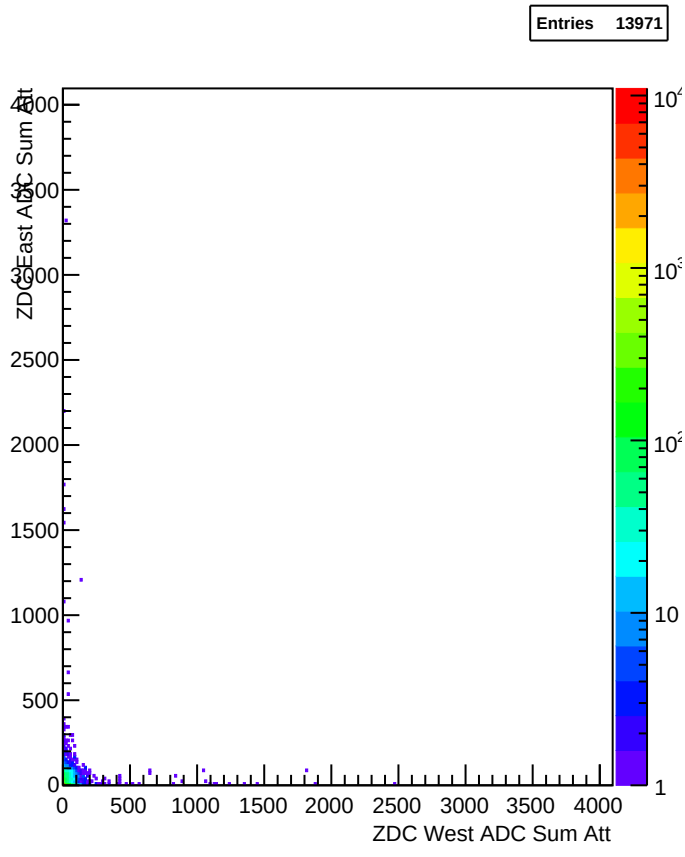

Entries 13971
BBC-S-East ADC Sum
VPD-East ADC Sum

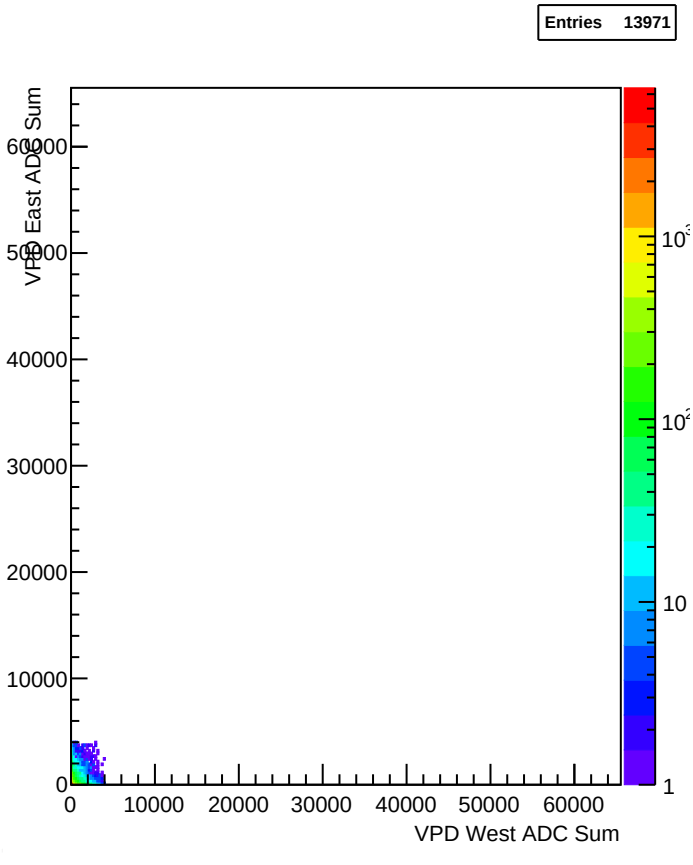

Entries 13971
BBC-S-West ADC Sum
VPD-West ADC Sum

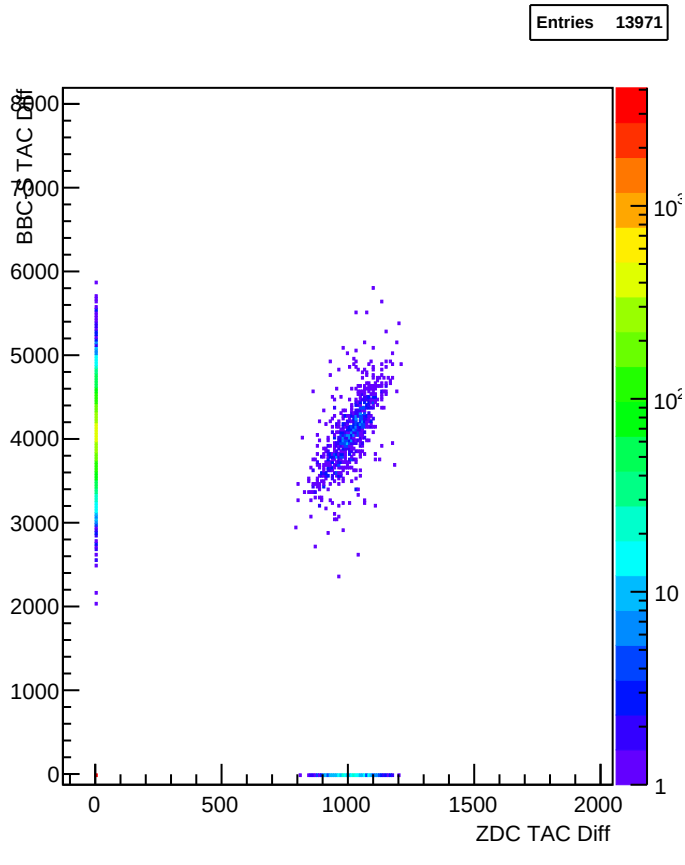

Entries 13971
VPD-East ADC Sum
ZDC-East ADC Sum Att

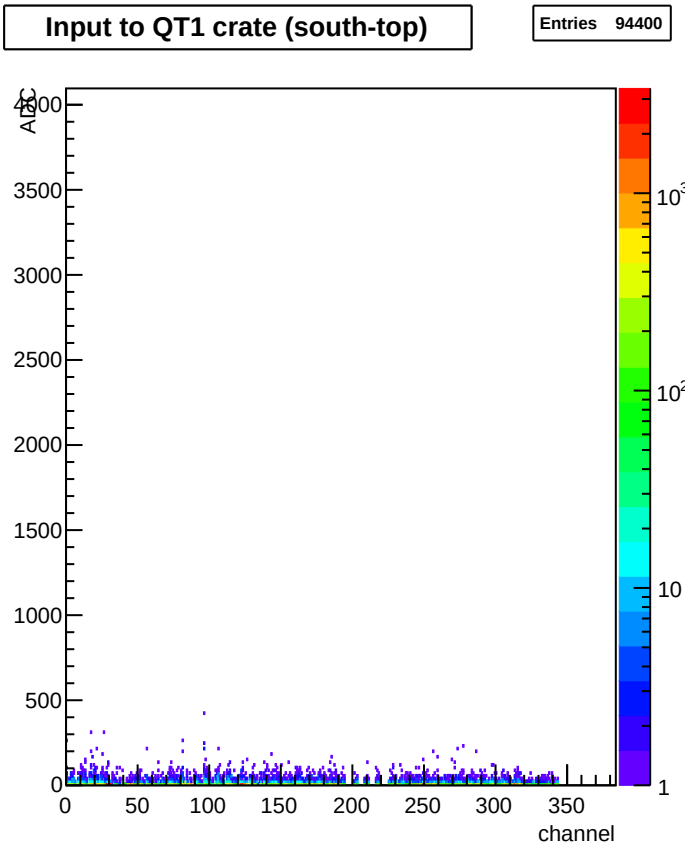

Entries 13971
VPD-West ADC Sum
ZDC-West ADC Sum Att

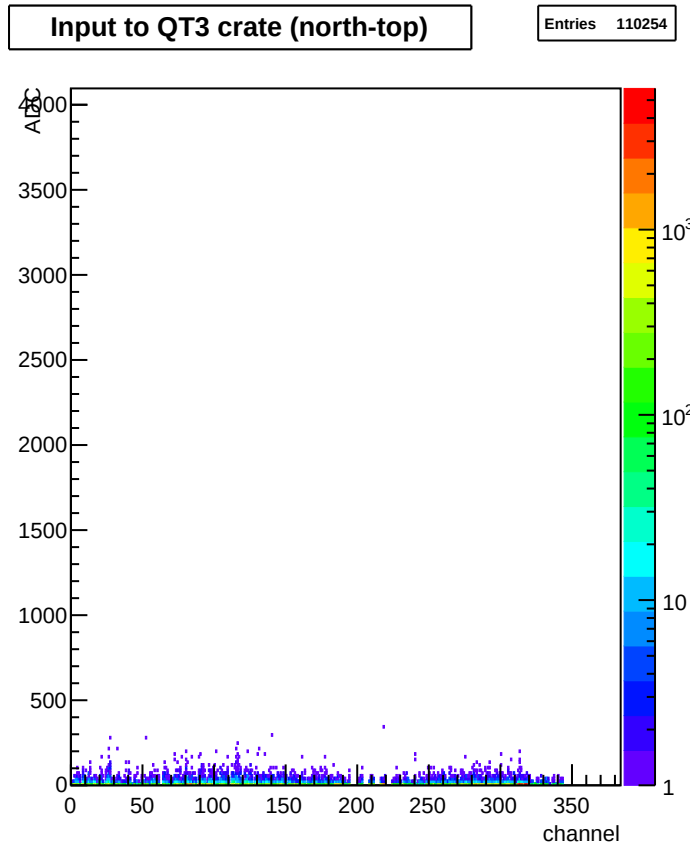

Entries 13971
BBC-S-East ADC Sum
BBC-S-West ADC Sum
0
10000
20000
30000
40000
50000
60000
1
10
10²
10³

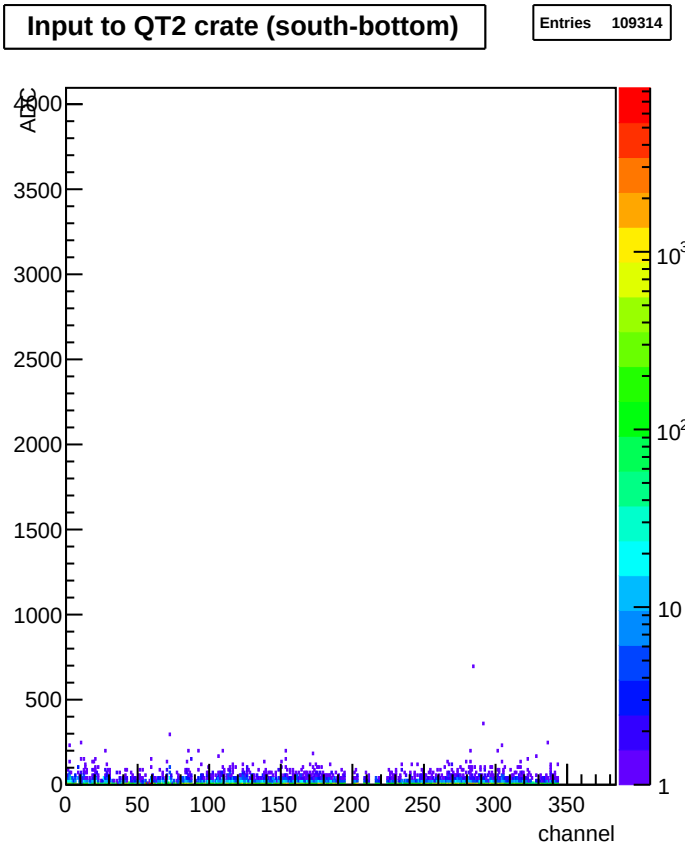

Entries 13971
ZDC East ADC Sum Att
ZDC West ADC Sum Att
0
500
1000
1500
2000
2500
3000
3500
4000
1
10
10²
10³
10⁴

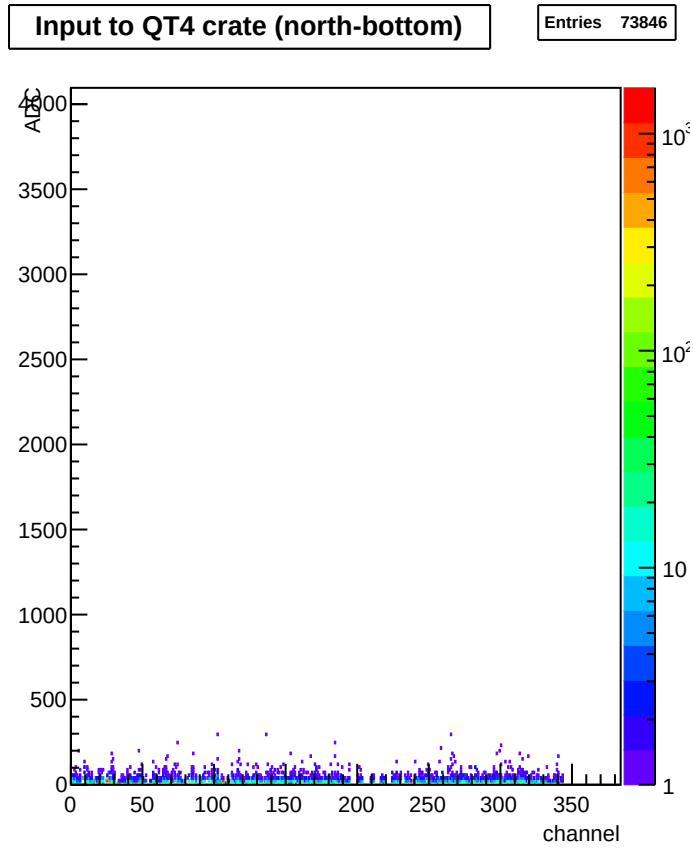

Entries 13971
VPD East ADC Sum
VPD West ADC Sum
0
10000
20000
30000
40000
50000
60000
1
10
10²
10³

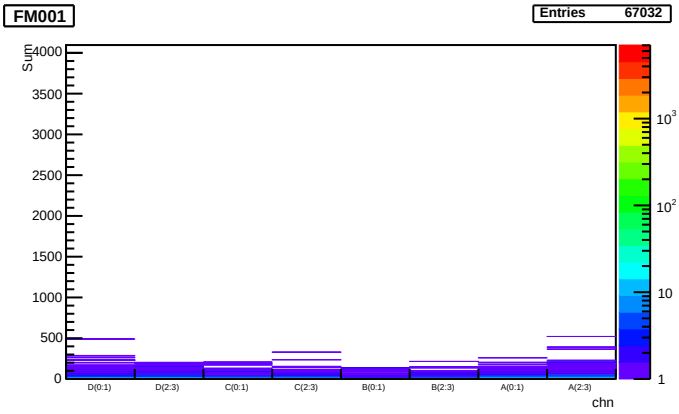

Entries 13971
BBC-S TAC Diff
ZDC TAC Diff
0
500
1000
1500
2000
1000
2000
3000
4000
5000
6000
7000
8000
1
10
10²
10³

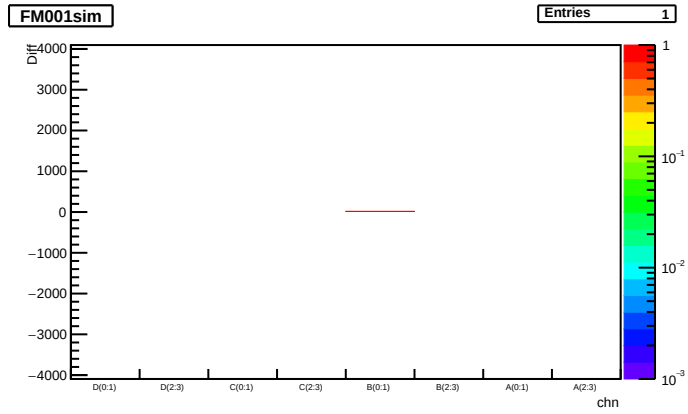

Input to QT1 crate (south-top)
Entries 94400
ADC
channel

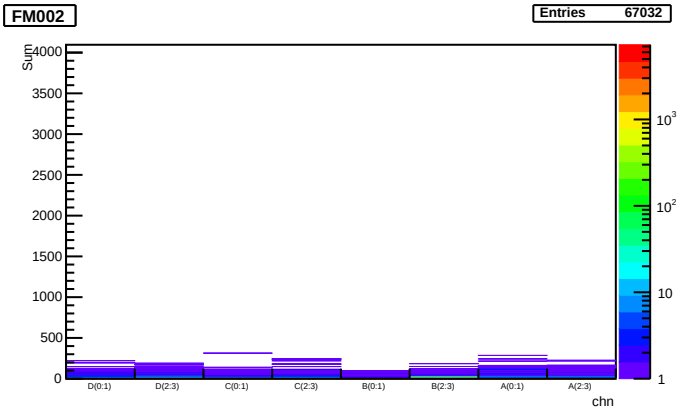

Input to QT3 crate (north-top)
Entries 110254
ADC
channel

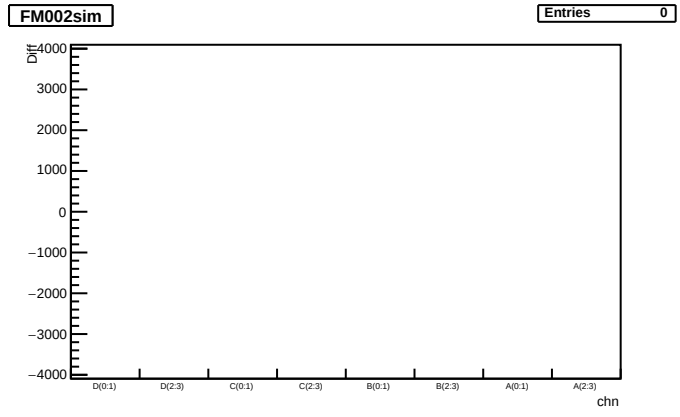

Input to QT2 crate (south-bottom)
Entries 109314
ADC
channel

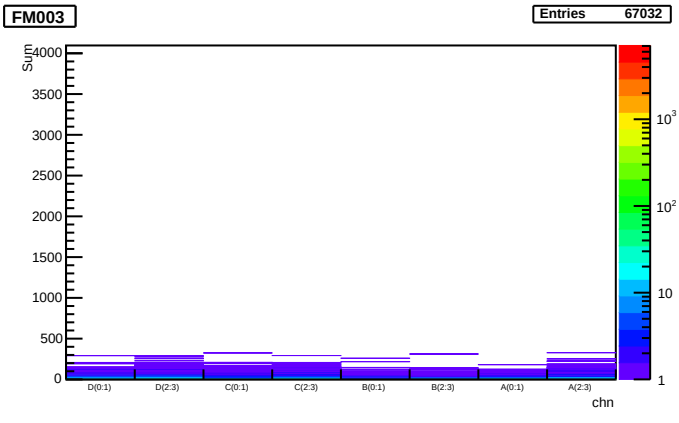

Input to QT4 crate (north-bottom)
Entries 73846
ADC
channel

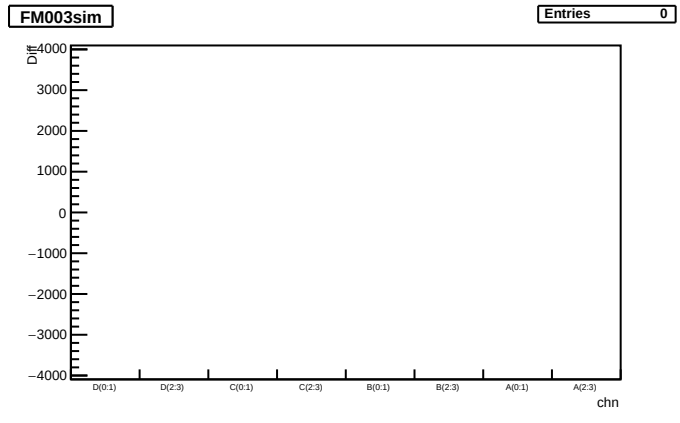

FM001
Entries 67032
Sum
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

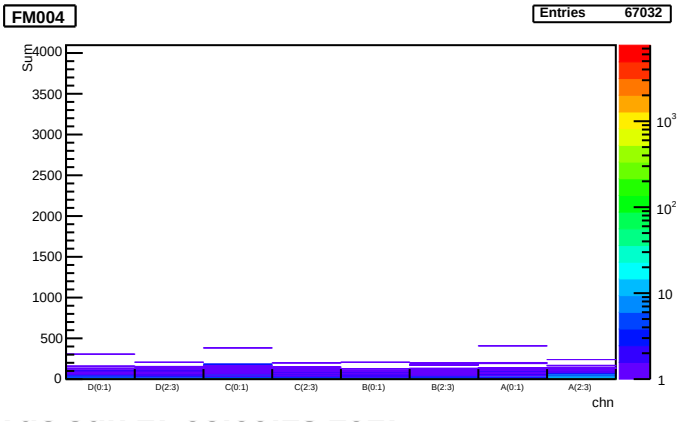

FM001sim
Entries 1
Diff
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

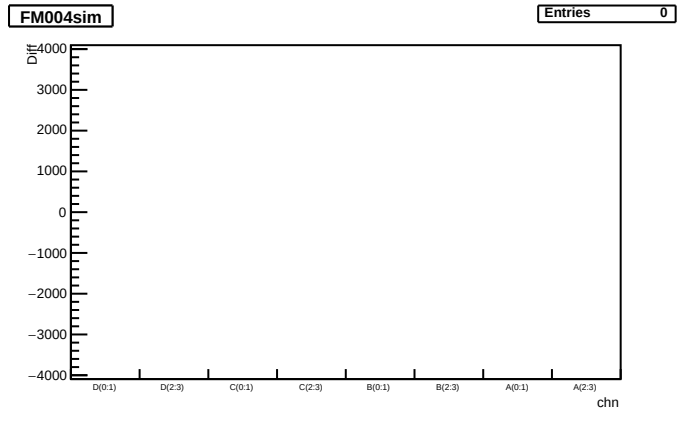

FM002
Entries 67032
Sum
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

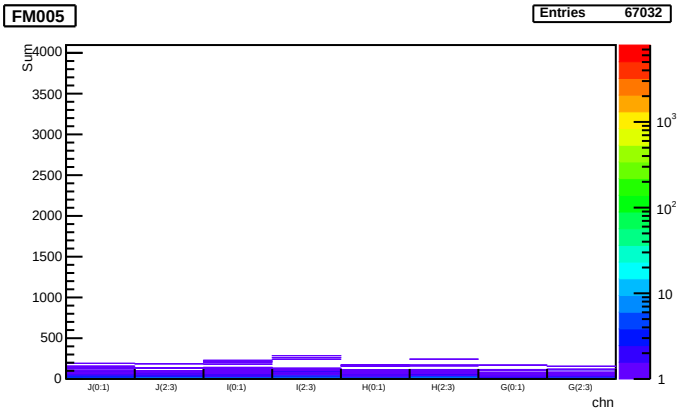

FM002sim
Entries 0
Diff
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

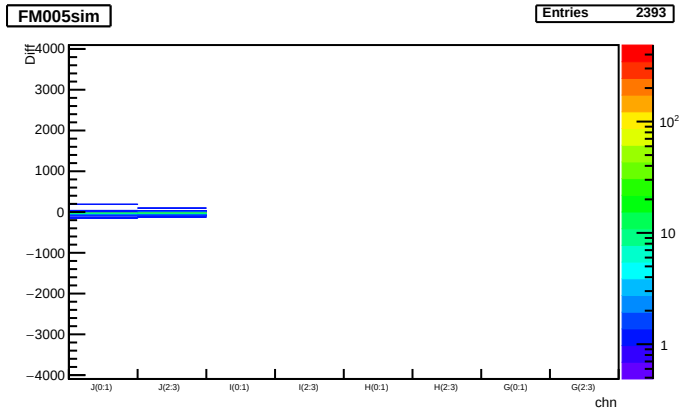

FM003
Entries 67032
Sum
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

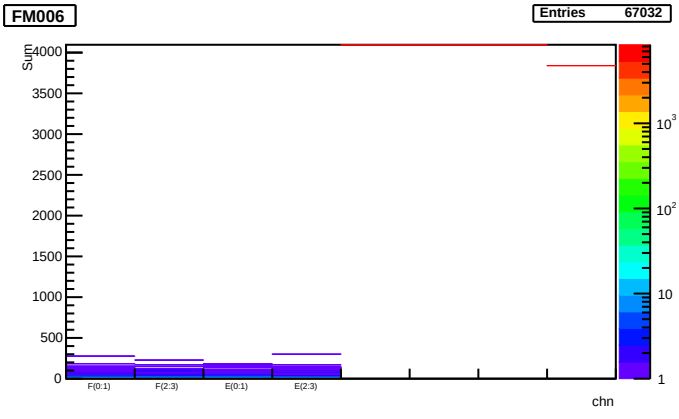

FM003sim
Entries 0
Diff
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

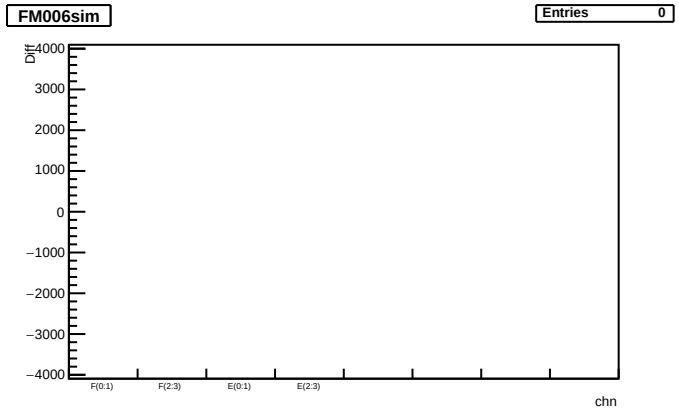

FM004
Entries 67032
Sum
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

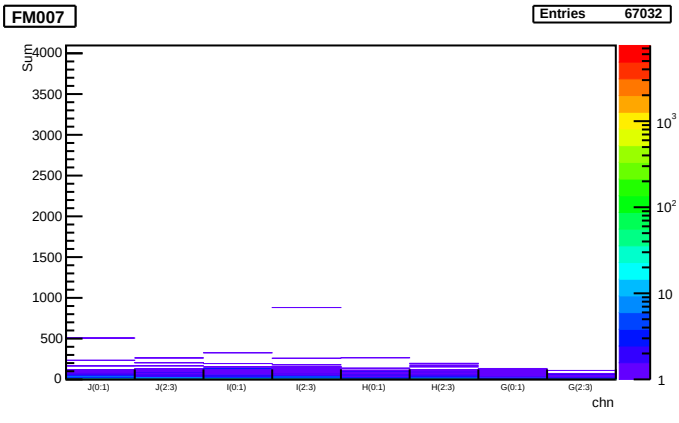

FM004sim
Entries 0
Diff
chn
D(0:1)
D(2:3)
C(0:1)
C(2:3)
B(0:1)
B(2:3)
A(0:1)
A(2:3)

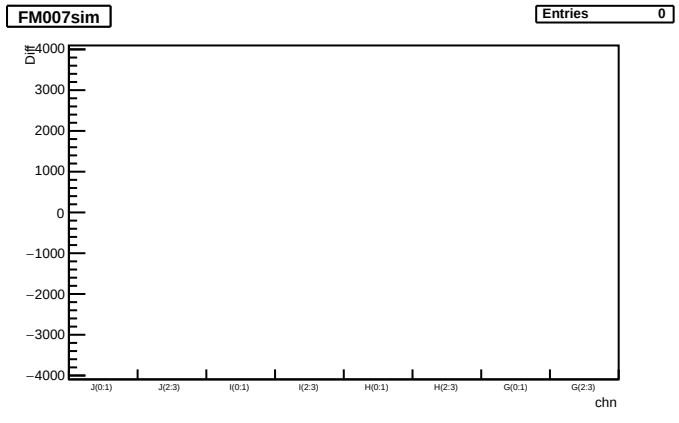

FM005
Entries 67032
Sum
chn
J(0:1)
J(2:3)
I(0:1)
I(2:3)
H(0:1)
H(2:3)
G(0:1)
G(2:3)

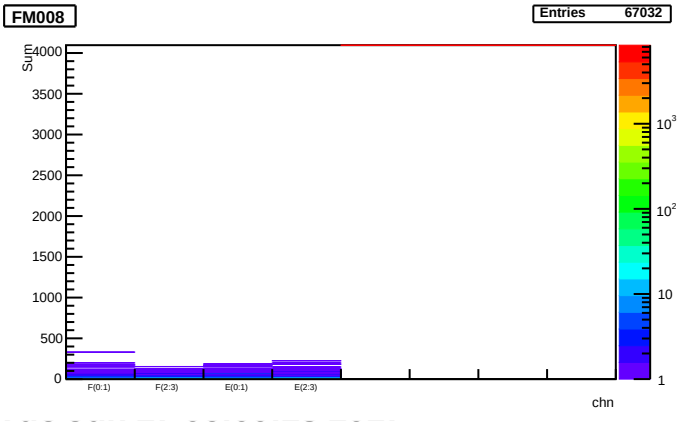

FM005sim
Entries 2393
Diff
chn
J(0:1)
J(2:3)
I(0:1)
I(2:3)
H(0:1)
H(2:3)
G(0:1)
G(2:3)

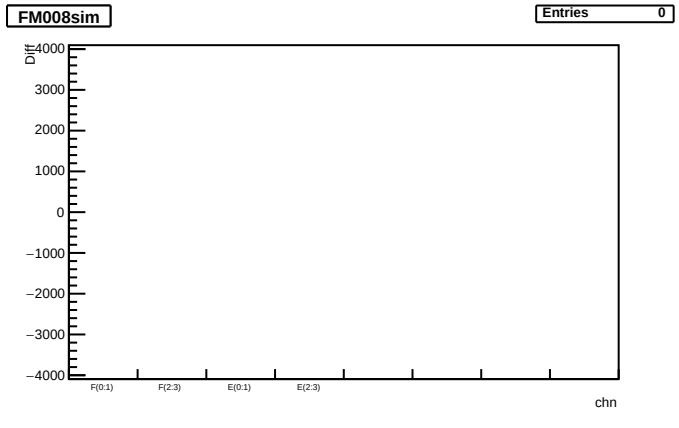

FM006
Entries 67032
Sum
chn
F(0:1)
F(2:3)
E(0:1)
E(2:3)

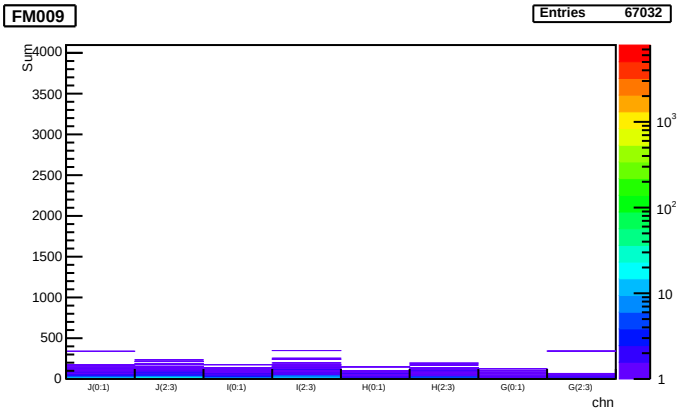

FM006sim
Entries 0
Diff
chn
F(0:1)
F(2:3)
E(0:1)
E(2:3)

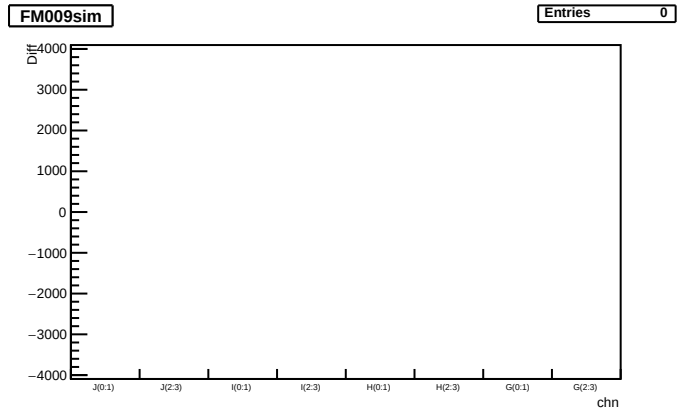

FM007
Entries 67032
Sum
chn
J(0:1)
J(2:3)
I(0:1)
I(2:3)
H(0:1)
H(2:3)
G(0:1)
G(2:3)

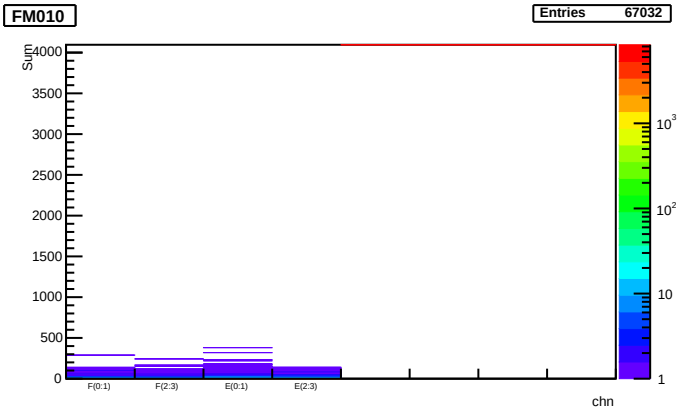

FM007sim
Entries 0
Diff
chn
J(0:1)
J(2:3)
I(0:1)
I(2:3)
H(0:1)
H(2:3)
G(0:1)
G(2:3)

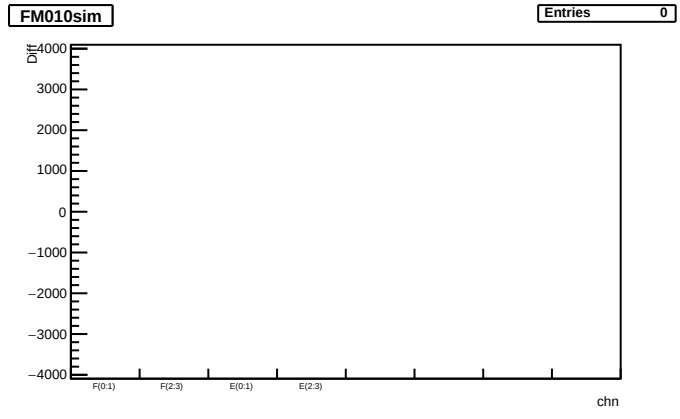

FM008
Entries 67032
Sum
chn
F(0:1)
F(2:3)
E(0:1)
E(2:3)

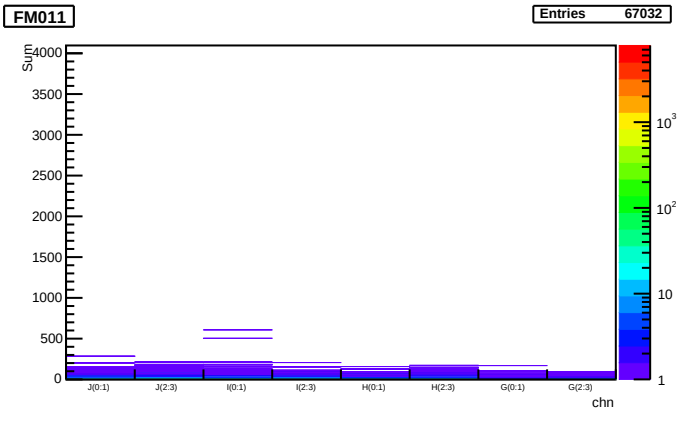

FM008sim
Entries 0
Diff
chn
F(0:1)
F(2:3)
E(0:1)
E(2:3)

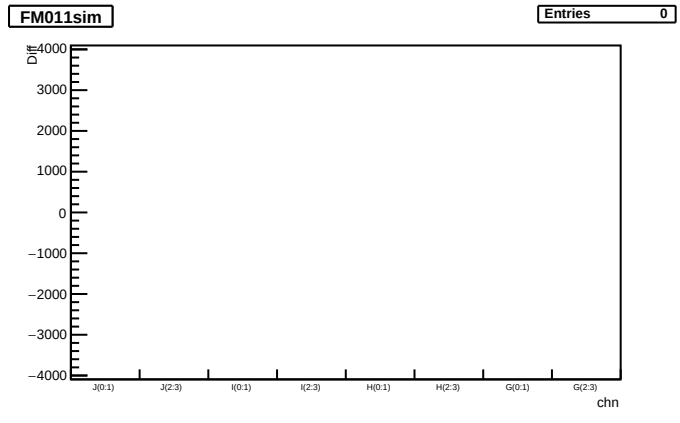

FM009
Entries 67032
Sum
chn
J(0:1)
J(2:3)
I(0:1)
I(2:3)
H(0:1)
H(2:3)
G(0:1)
G(2:3)

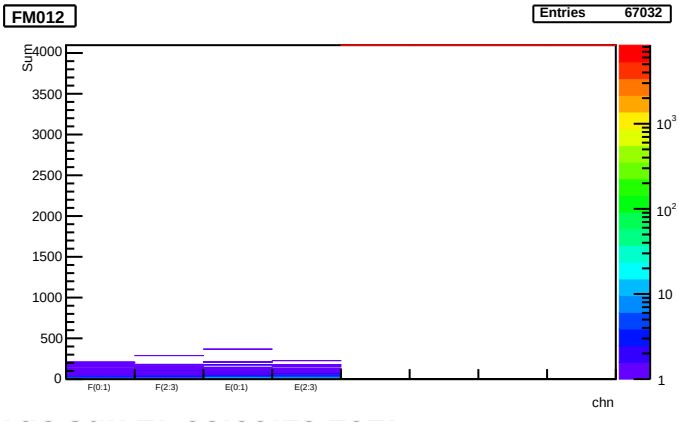

FM009sim
Entries 0
Diff
chn

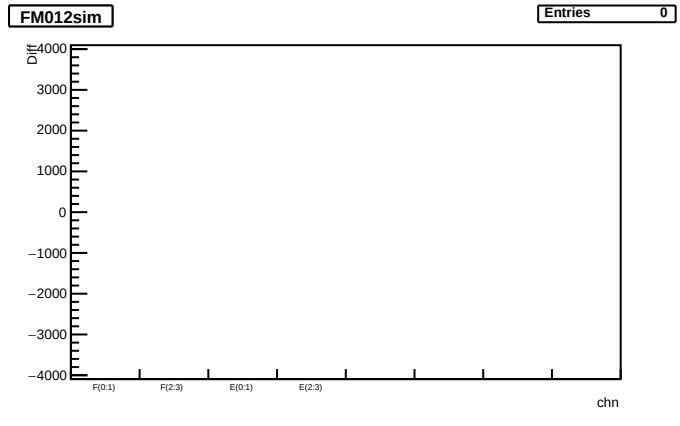

FM010
Entries 67032
Sum
chn
F(0:1)
F(2:3)
E(0:1)
E(2:3)

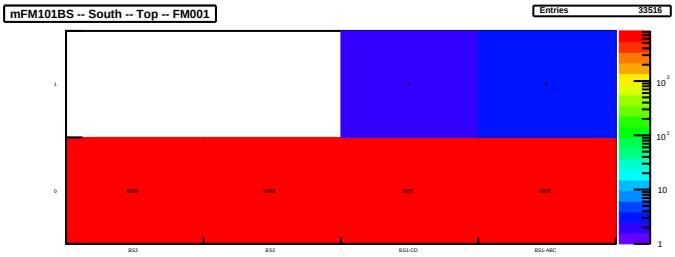

FM010sim
Entries 0
Diff
chn

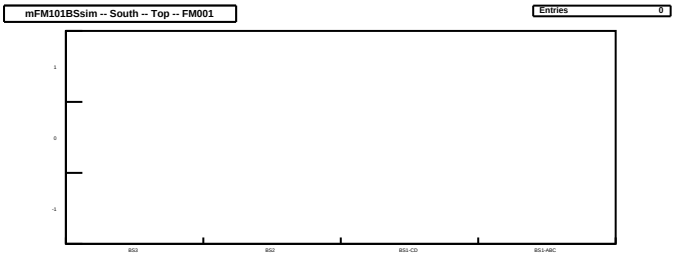

FM011
Entries 67032
Sum
chn
J(0:1)
J(2:3)
I(0:1)
I(2:3)
H(0:1)
H(2:3)
G(0:1)
G(2:3)

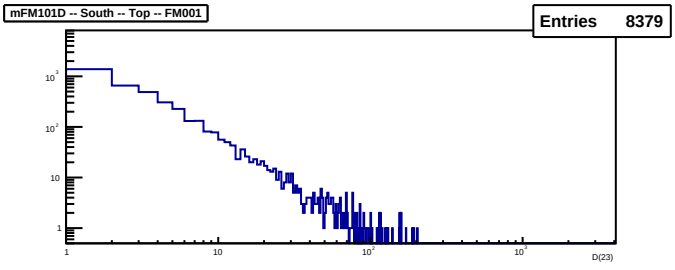

FM011sim
Entries 0
Diff
chn

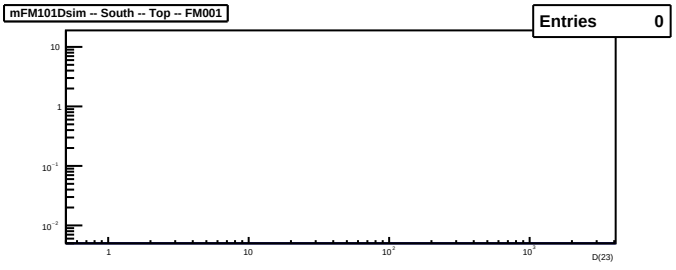

FM012
Entries 67032
Sum
chn
F(0:1)
F(2:3)
E(0:1)
E(2:3)

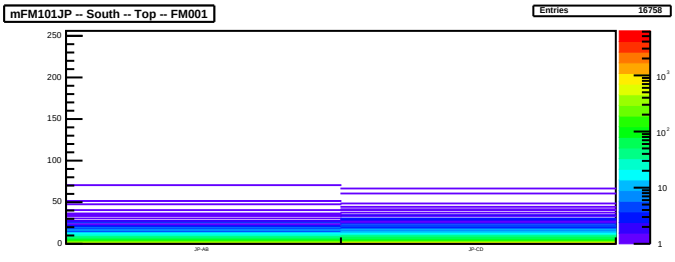

FM012sim
Entries 0
Diff
chn


mFM101BS -- South -- Top -- FM001
Entries 33516
8370
8379
8377
8376
BS3
BS2
BS1-CD
BS1-ABC

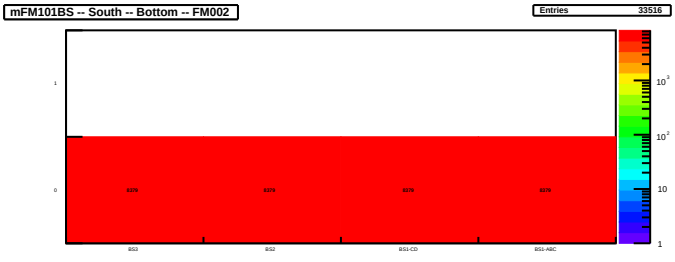

mFM101BSsim -- South -- Top -- FM001
Entries 0
BS3
BS2
BS1-CD
BS1-ABC

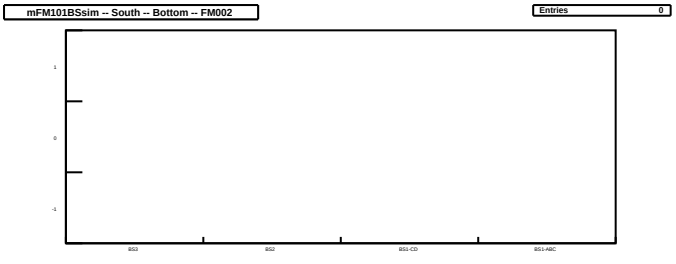

mFM101D -- South -- Top -- FM001
Entries 8379
D(23)

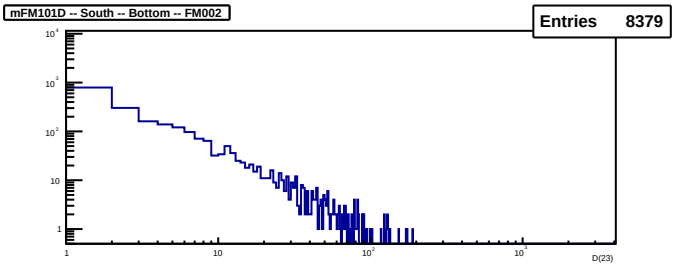

mFM101Dsim -- South -- Top -- FM001
Entries 0
D(23)

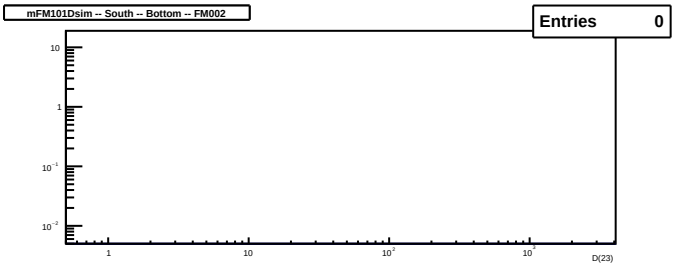

mFM101JP -- South -- Top -- FM001
Entries 16758
JP-AB
JP-CD

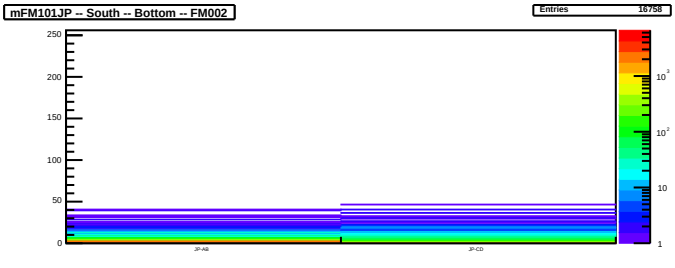
mFM101JPsim -- South -- Top -- FM001
Entries 0
JP-AB
JP-CD

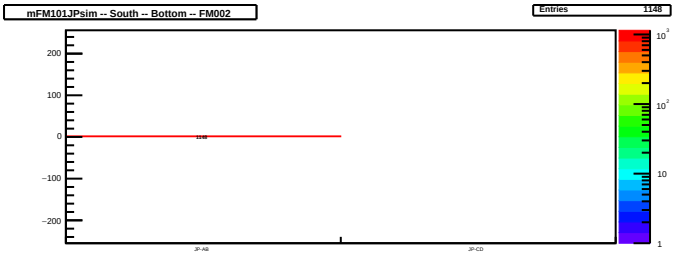

mFM101BS -- South -- Bottom -- FM002
Entries 33516
8370
8379
8378
8379
BS3
BS2
BS1-CD
BS1-ABC

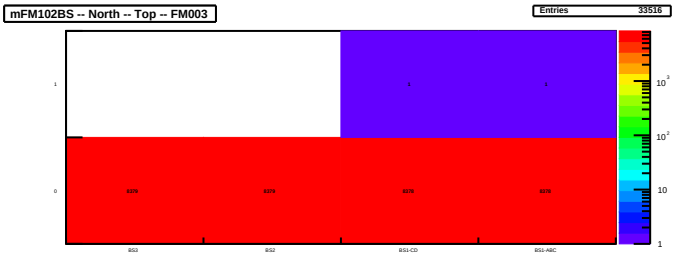

mFM101BSsim -- South -- Bottom -- FM002
Entries 0
BS3
BS2
BS1-CD
BS1-ABC


mFM101D -- South -- Bottom -- FM002
Entries 8379
D(23)

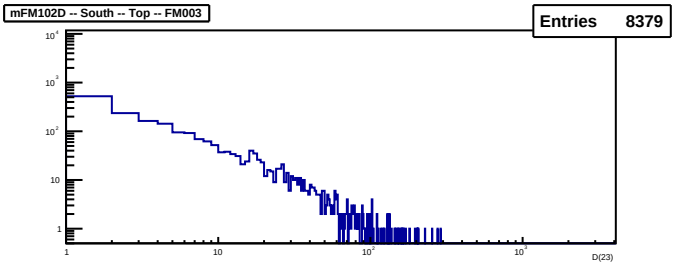

mFM101Dsim -- South -- Bottom -- FM002
Entries 0
D(23)

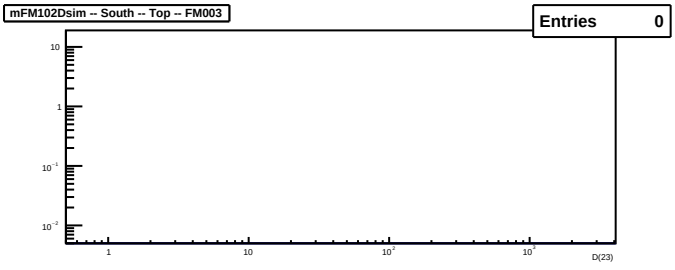

mFM101JP -- South -- Bottom -- FM002
Entries 16758
JP-AB
JP-CD

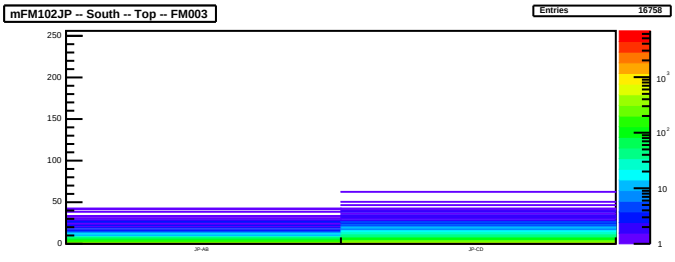

mFM101JPsim -- South -- Bottom -- FM002
Entries 1148
1148
JP-AB
JP-CD


mFM102BS -- North -- Top -- FM003
Entries 33516
BS3
BS2
BS1-CD
BS1-ABC

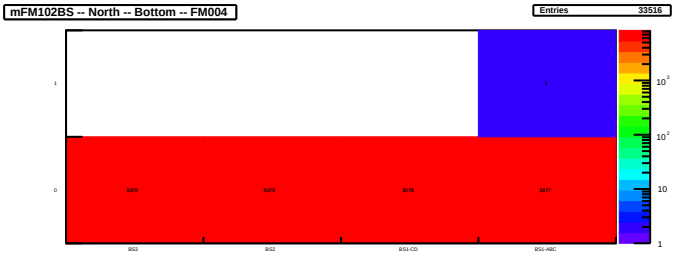
mFM102BSsim -- North -- Top -- FM003
Entries 0
BS3
BS2
BS1-CD
BS1-ABC

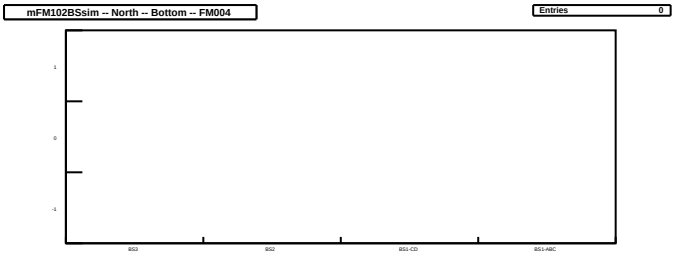

mFM102D -- South -- Top -- FM003
Entries 8379
D(23)

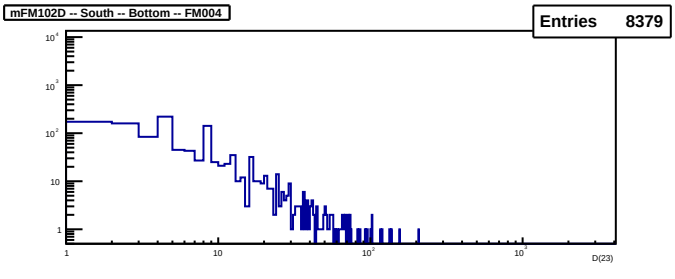

mFM102Dsim -- South -- Top -- FM003
Entries 0
D(23)

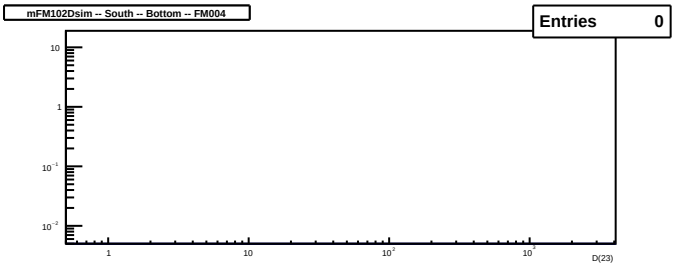

mFM102JP -- South -- Top -- FM003
Entries 16758
JP-AB
JP-CD

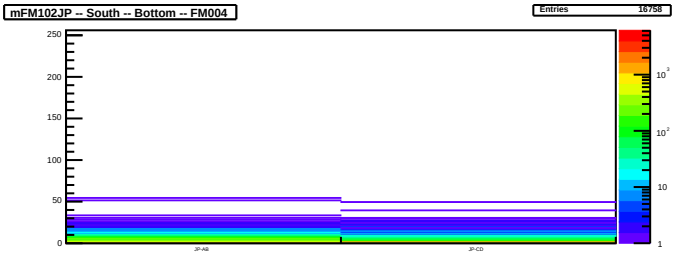
mFM102JPsim -- South -- Top -- FM003
Entries 0
JP-AB
JP-CD

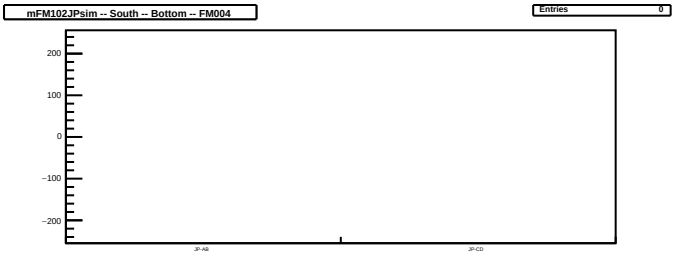

mFM102BS -- North -- Bottom -- FM004
Entries 33516
BS3
BS2
BS1-CD
BS1-ABC

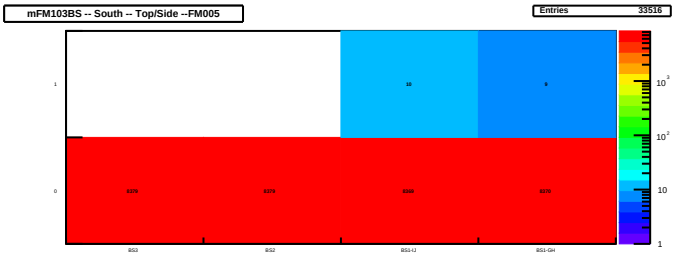

mFM102BSsim -- North -- Bottom -- FM004
Entries 0
BS3
BS2
BS1-CD
BS1-ABC

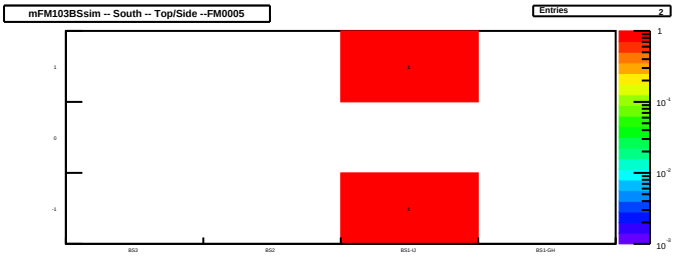

mFM102D -- South -- Bottom -- FM004
Entries 8379
D(23)

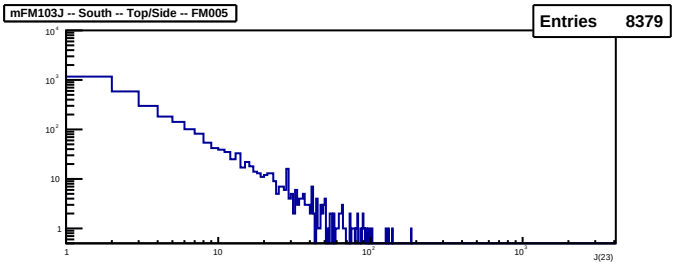

mFM102Dsim -- South -- Bottom -- FM004
Entries 0
D(23)

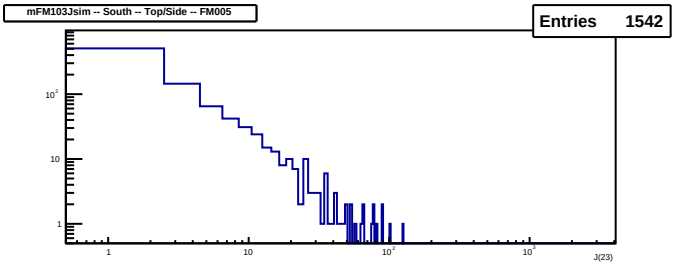

mFM102JP -- South -- Bottom -- FM004
Entries 16758
JP-AB
JP-CD

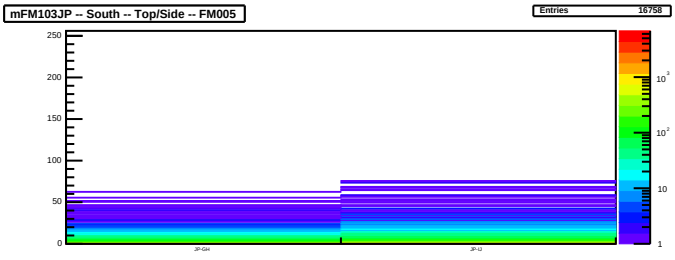

mFM102JPsim -- South -- Bottom -- FM004
Entries 0
JP-AB
JP-CD

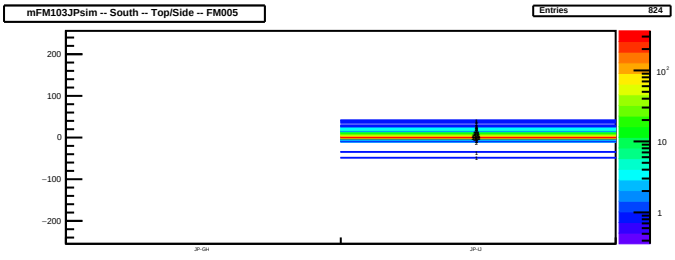

mFM103BS -- South -- Top/Side --FM005
Entries 33516

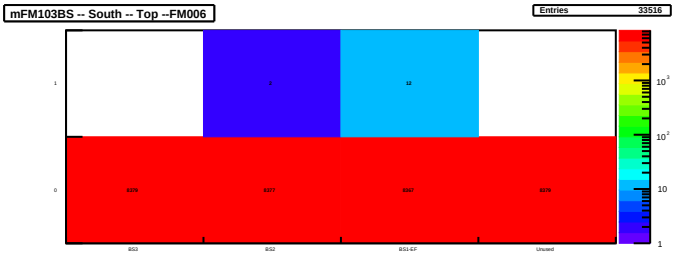

mFM103BSsim -- South -- Top/Side --FM0005
Entries 2

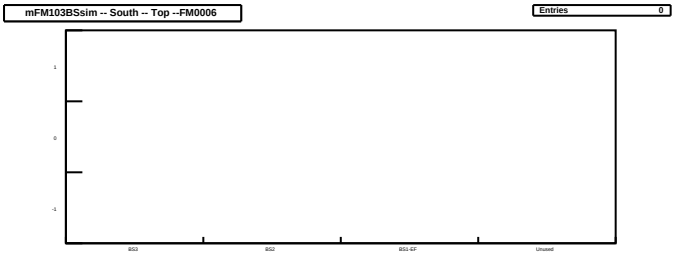

mFM103J -- South -- Top/Side -- FM005
Entries 8379
J(23)

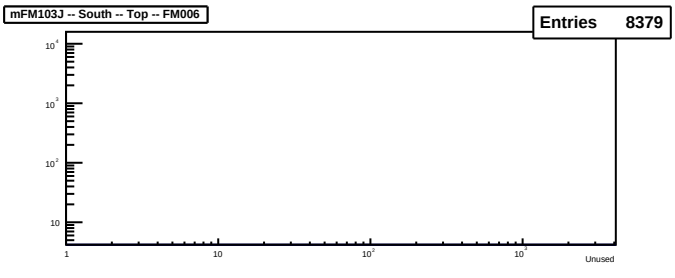

mFM103Jsim -- South -- Top/Side -- FM005
Entries 1542
J(23)

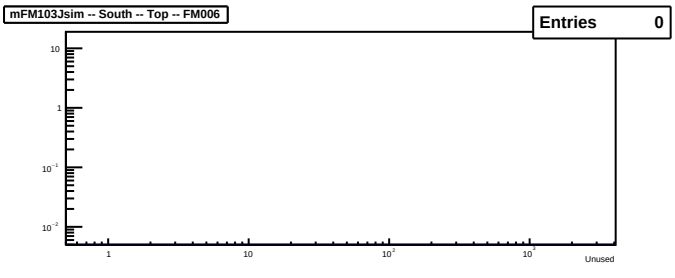

mFM103JP -- South -- Top/Side -- FM005
Entries 16758

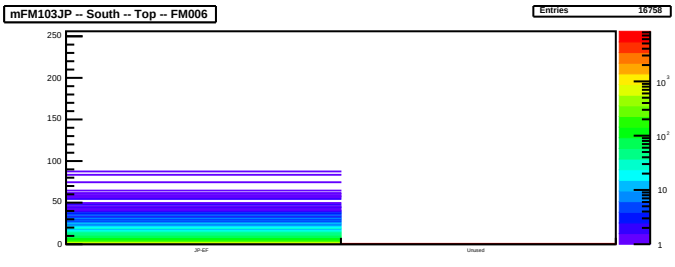

mFM103JPsim -- South -- Top/Side -- FM005
Entries 824

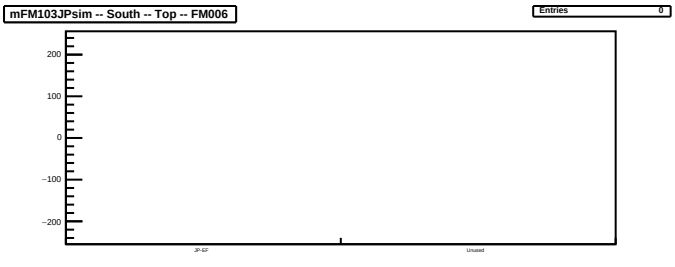

mFM103BS -- South -- Top --FM006
Entries 33516

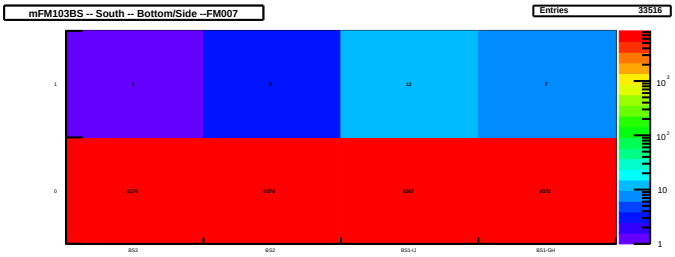

mFM103BSsim -- South -- Top --FM0006
Entries 0

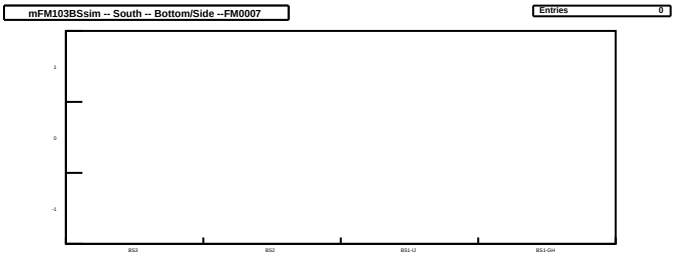

mFM103J -- South -- Top -- FM006
Entries 8379
Unused


mFM103Jsim -- South -- Top -- FM006
Entries 0
Unused


mFM103JP -- South -- Top -- FM006
Entries 16758


mFM103JPsim -- South -- Top -- FM006
Entries 0


mFM103BS -- South -- Bottom/Side --FM007
Entries 33516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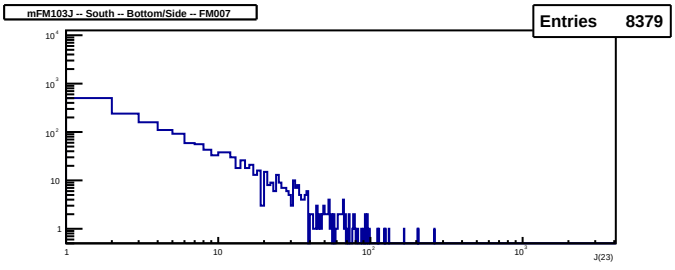
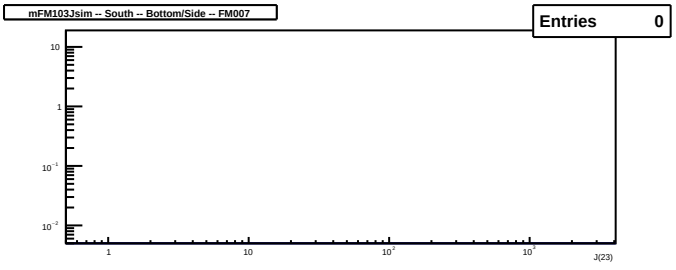
Entries 0


mFM103J -- South -- Bottom/Side -- FM007
Entries 8379
J(23)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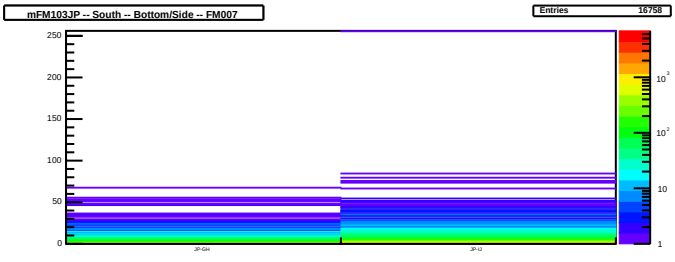
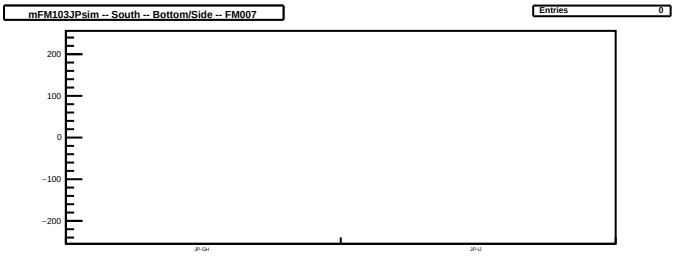
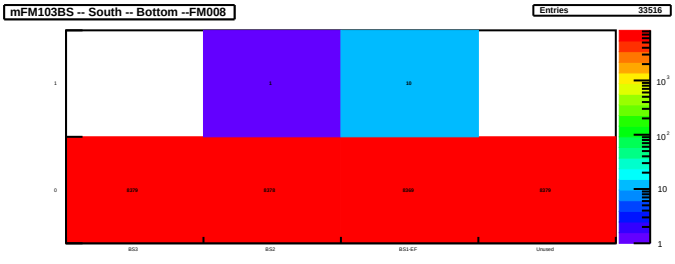
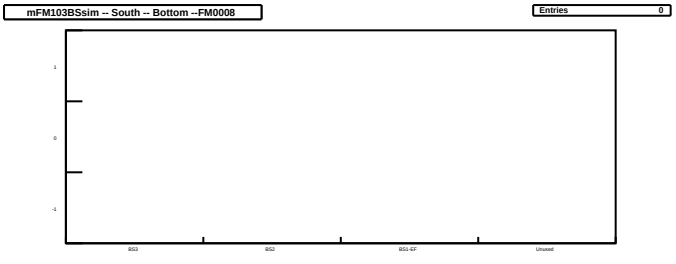
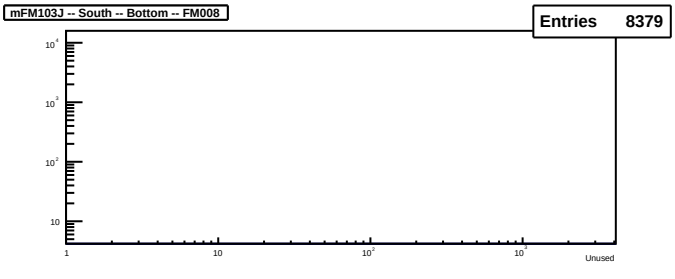
Entries 0
J(23)

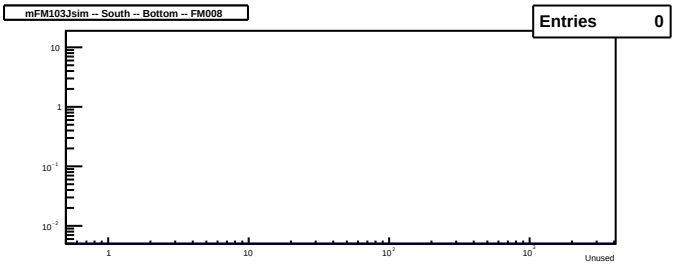

mFM103JP -- South -- Bottom/Side -- FM007
Entries 16758

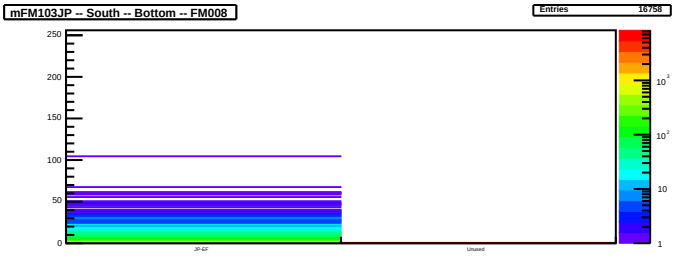

mFM103JPsim -- South -- Bottom/Side -- FM007
Entries 0

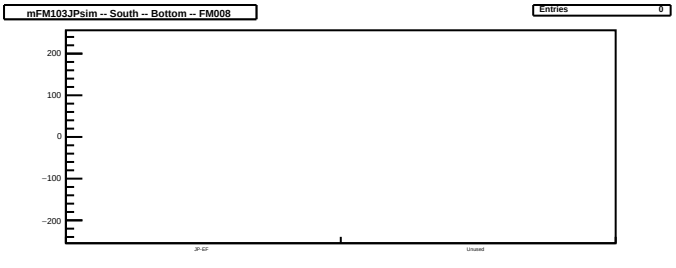

mFM103BS -- South -- Bottom --FM008
Entries 33516


mFM103BSsim -- South -- Bottom --FM0008
Entries 0


mFM103J -- South -- Bottom -- FM008
Entries 8379
Unused


mFM103Jsim -- South -- Bottom -- FM008
Entries 0
Unused


mFM103JP -- South -- Bottom -- FM008
Entries 16758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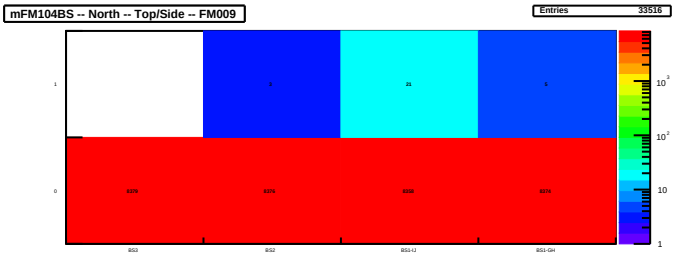
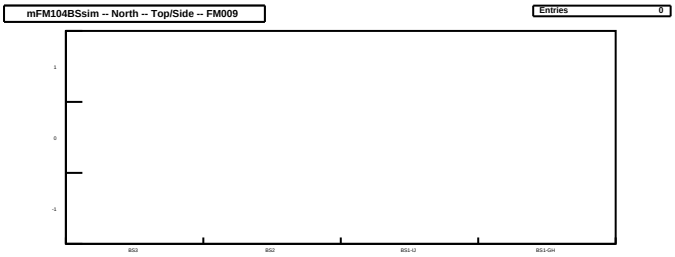
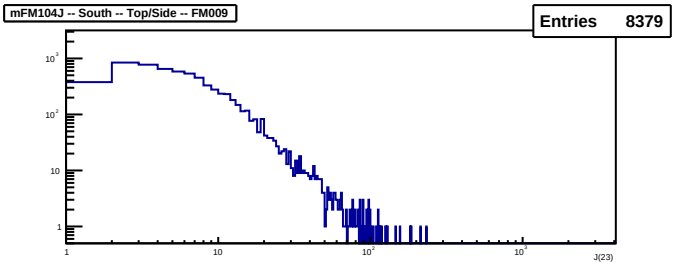
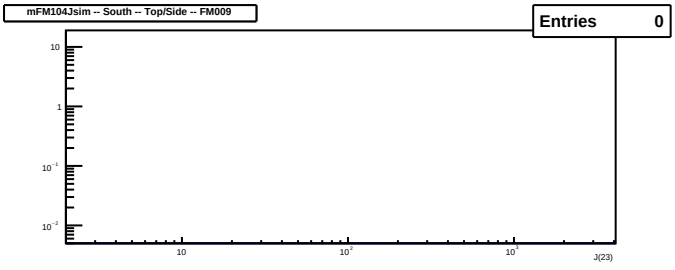
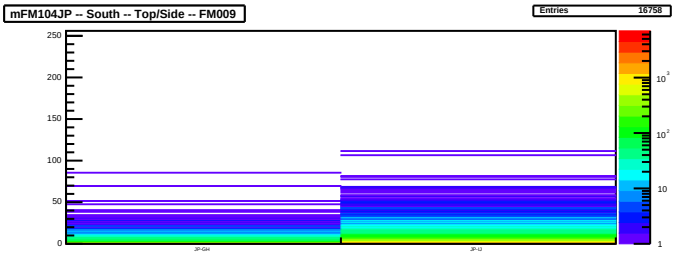
Entries 0

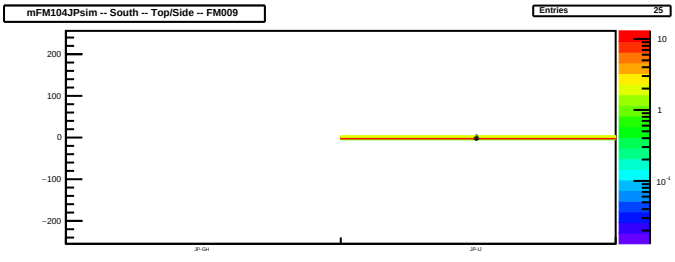

mFM104BS -- North -- Top/Side -- FM009
Entries 33516

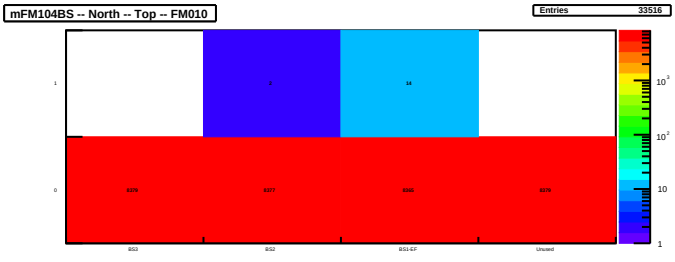

mFM104BSsim -- North -- Top/Side -- FM009
Entries 0

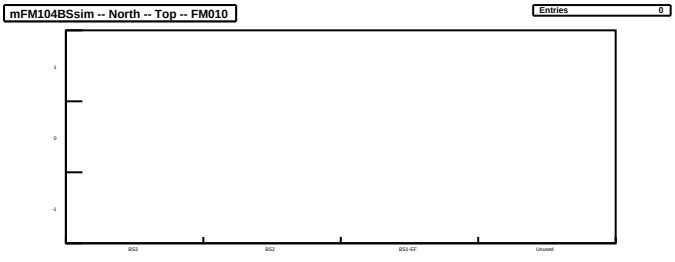

mFM104J -- South -- Top/Side -- FM009
Entries 8379
J(23)

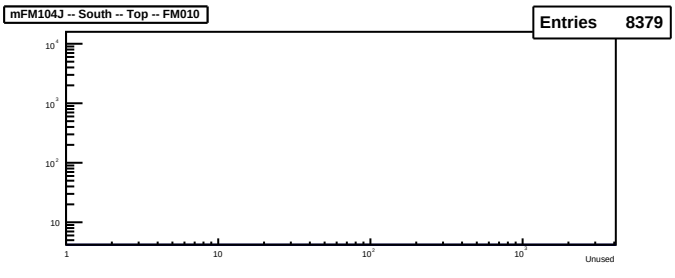

mFM104Jsim -- South -- Top/Side -- FM009
Entries 0
J(23)

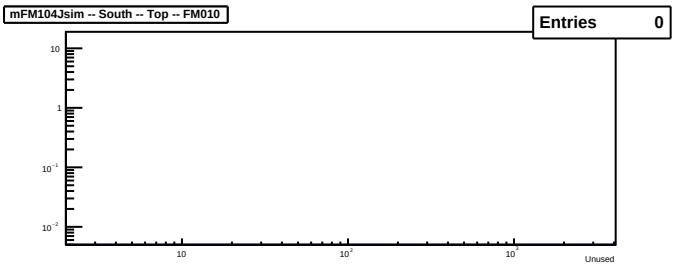

mFM104JP -- South -- Top/Side -- FM009
Entries 16758

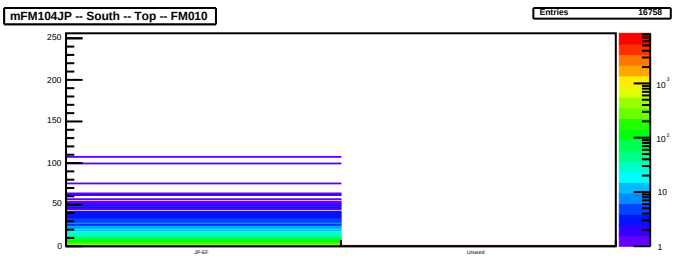

mFM104JPsim -- South -- Top/Side -- FM009
Entries 25

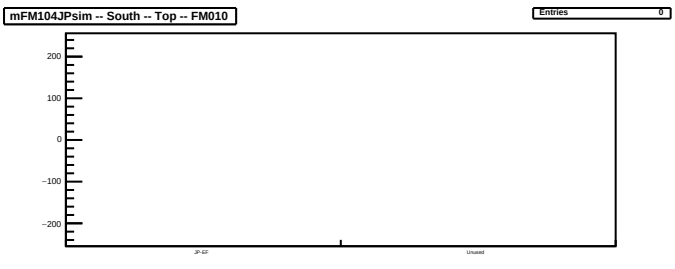

mFM104BS -- North -- Top -- FM010
Entries 33516

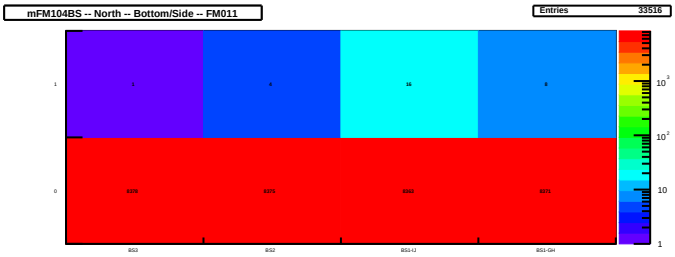

mFM104BSsim -- North -- Top -- FM010
Entries 0

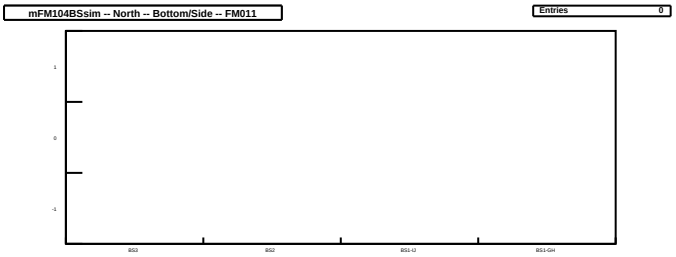

mFM104J -- South -- Top -- FM010
Entries 8379
Unused

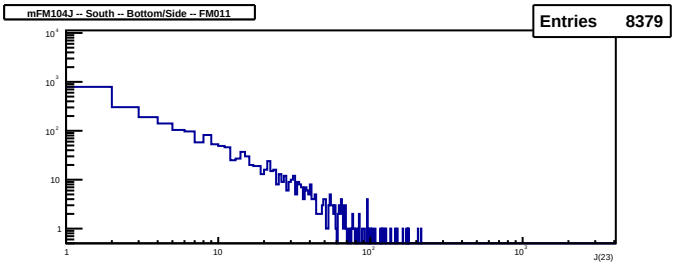

mFM104Jsim -- South -- Top -- FM010
Entries 0
Unused

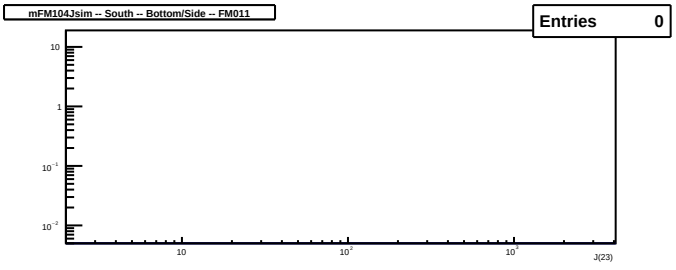

mFM104JP -- South -- Top -- FM010
Entries 16758

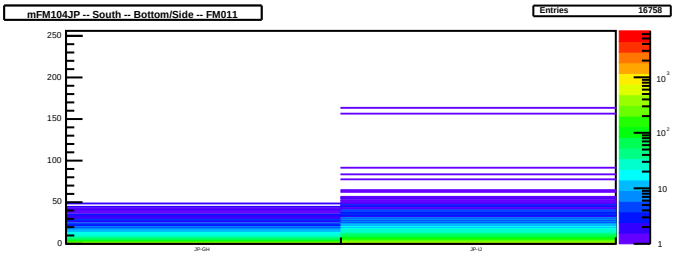

mFM104JPsim -- South -- Top -- FM010
Entries 0

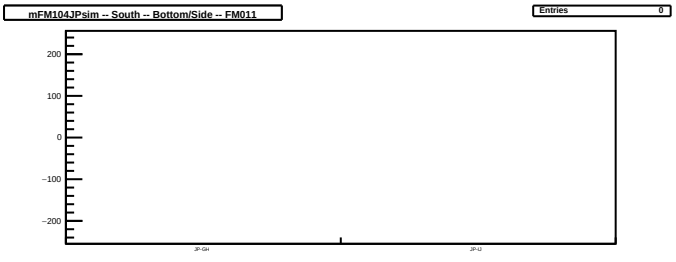

mFM104BS -- North -- Bottom/Side -- FM011
Entries 33516

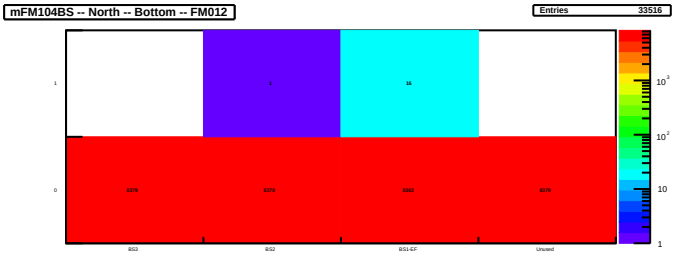

mFM104BSsim -- North -- Bottom/Side -- FM011
Entries 0

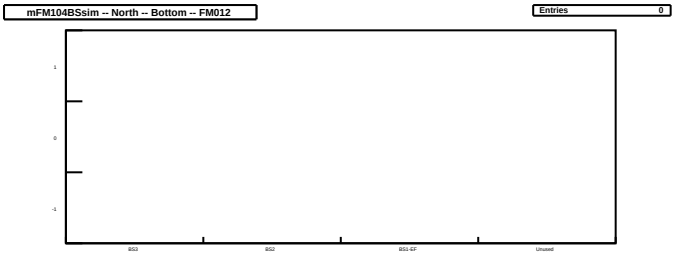

mFM104J -- South -- Bottom/Side -- FM011
Entries 8379
J(23)

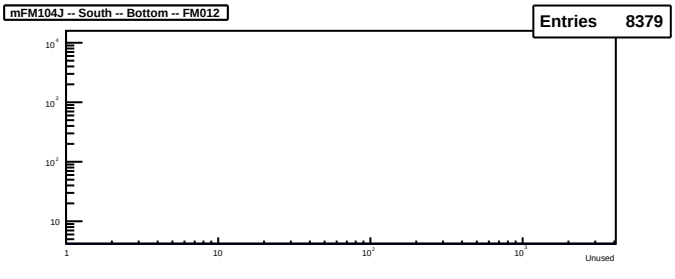

mFM104Jsim -- South -- Bottom/Side -- FM011
Entries 0
J(23)

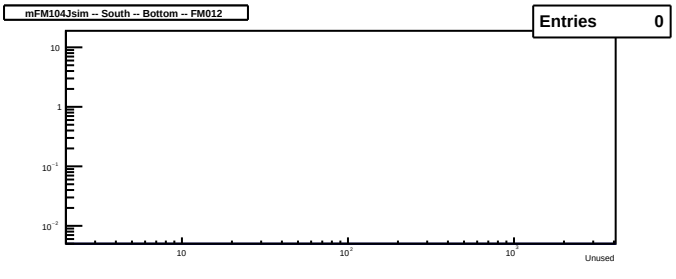

mFM104JP -- South -- Bottom/Side -- FM011
Entries 16758


mFM104JPsim -- South -- Bottom/Side -- FM011
Entries 0


mFM104BS -- North -- Bottom -- FM012
Entries 33516


mFM104BSsim -- North -- Bottom -- FM012
Entries 0


mFM104J -- South -- Bottom -- FM012
Entries 8379
Unused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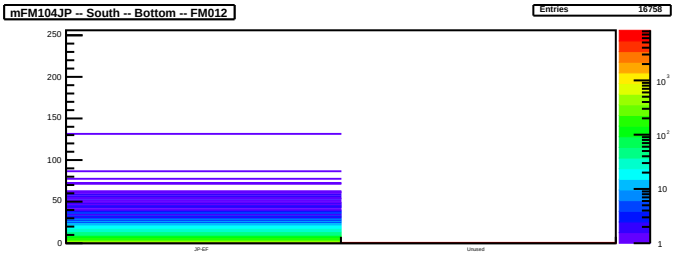
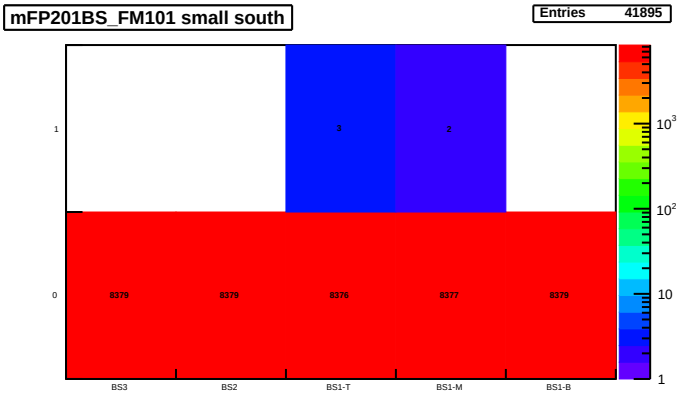
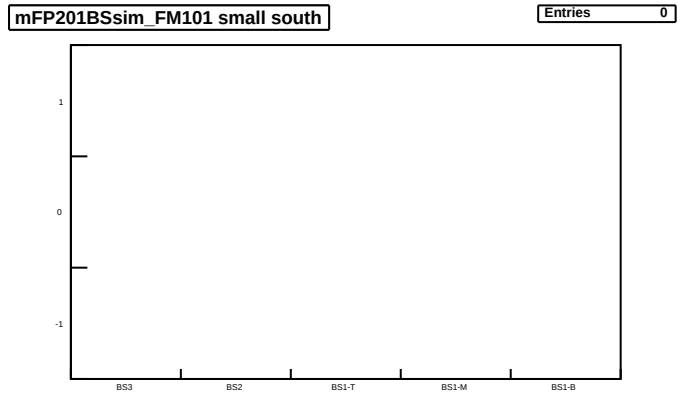
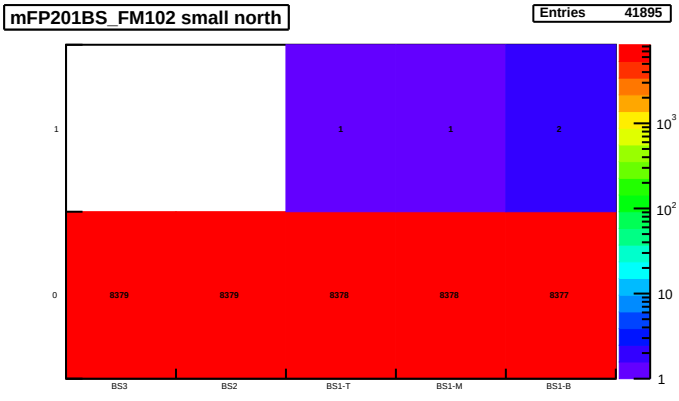
Entries 0
Unused

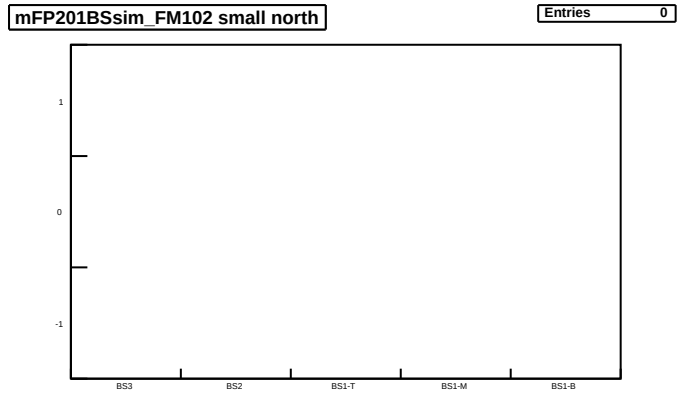

mFM104JP -- South -- Bottom -- FM012
Entries 16758

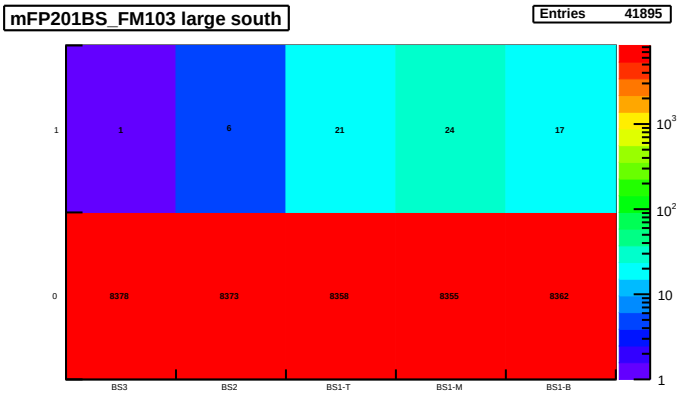
mFM104JPsim -- South -- Bottom -- FM012
Entries 0


mFP201BS_FM101 small south
Entries 41895
1
0
3
2
8379
8379
8376
8377
8379
BS3
BS2
BS1-T
BS1-M
BS1-B
10^3
10^2
10
1


mFP201BSsim_FM101 small south
Entries 0
1
0
-1
BS3
BS2
BS1-T
BS1-M
BS1-B


mFP201BS_FM102 small north
Entries 41895
1
0
1
1
2
8379
8379
8378
8378
8377
BS3
BS2
BS1-T
BS1-M
BS1-B
10^3
10^2
10
1


mFP201BSsim_FM102 small north
Entries 0
1
0
-1
BS3
BS2
BS1-T
BS1-M
BS1-B


mFP201BS_FM103 large south
Entries 41895
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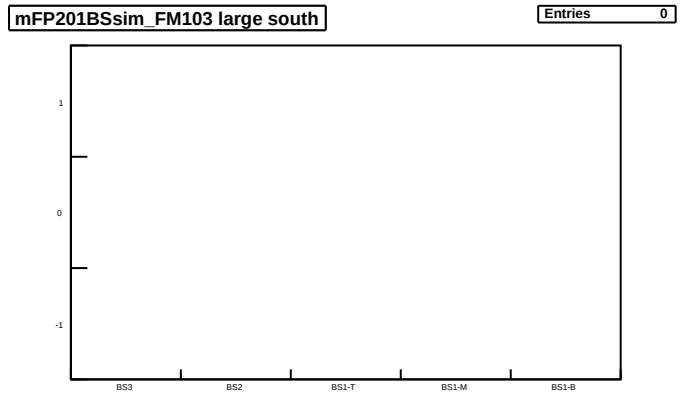
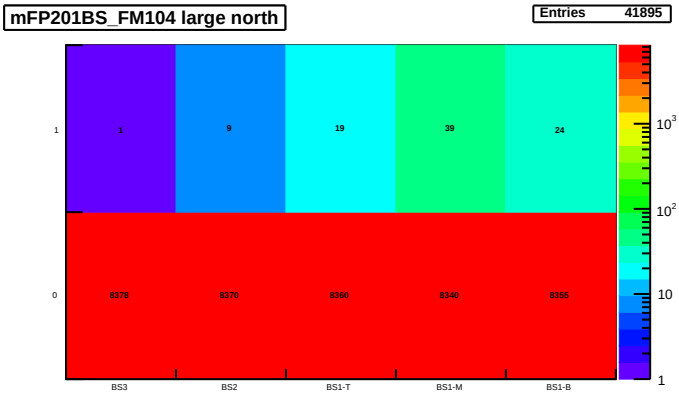
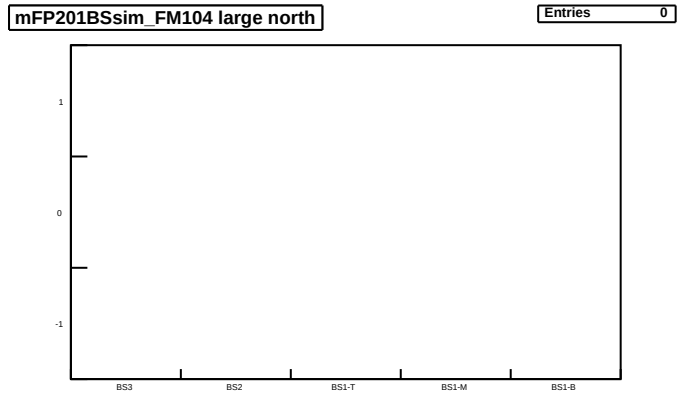
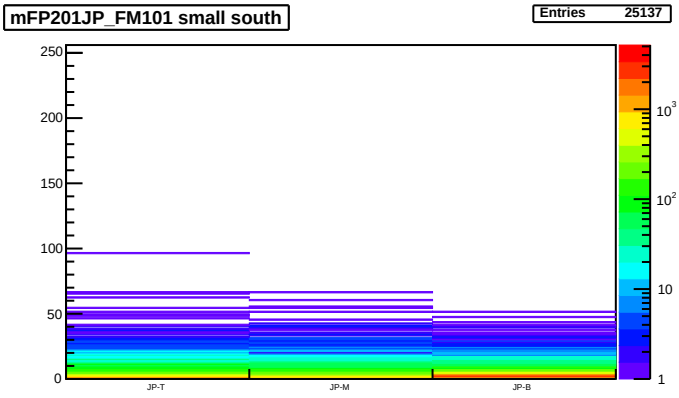
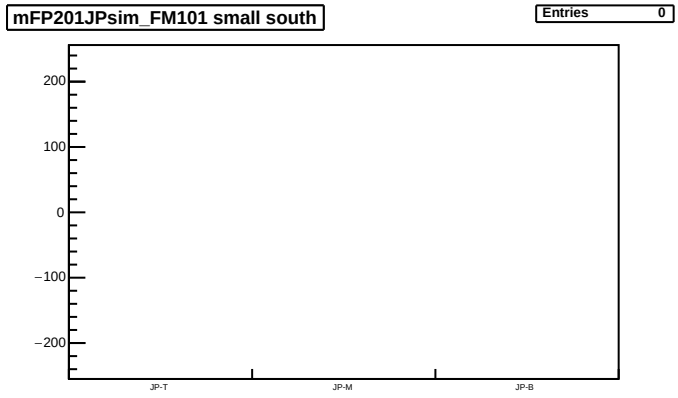
0
1
6
21
24
17
8378
8373
8358
8355
8362
BS3
BS2
BS1-T
BS1-M
BS1-B
10^3
10^2
10
1

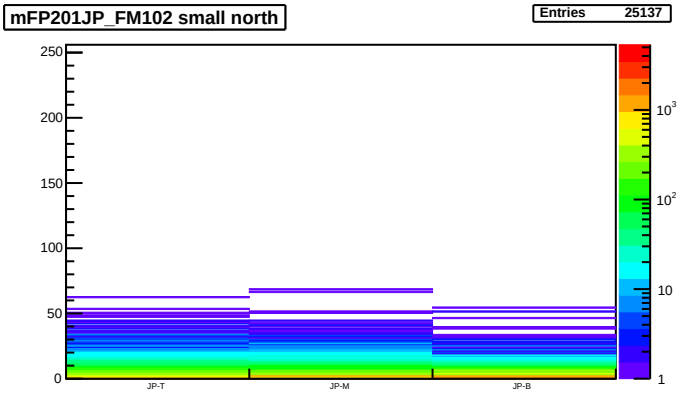

mFP201BSsim_FM103 large south
Entries 0
1
0
-1
BS3
BS2
BS1-T
BS1-M
BS1-B

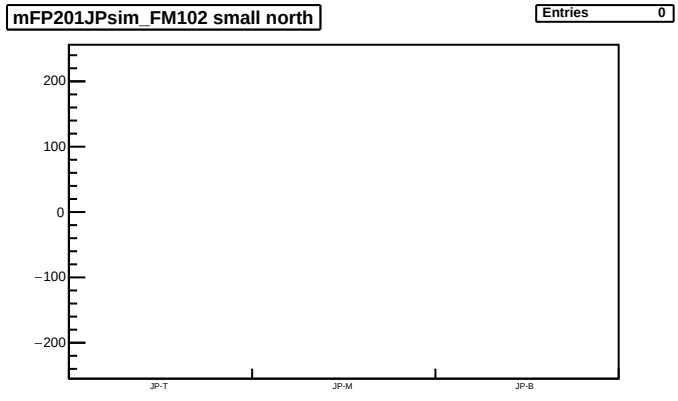

mFP201BS_FM104 large north
Entries 41895
1
0
1
9
19
39
24
8378
8370
8360
8340
8355
BS3
BS2
BS1-T
BS1-M
BS1-B
10^3
10^2
10
1

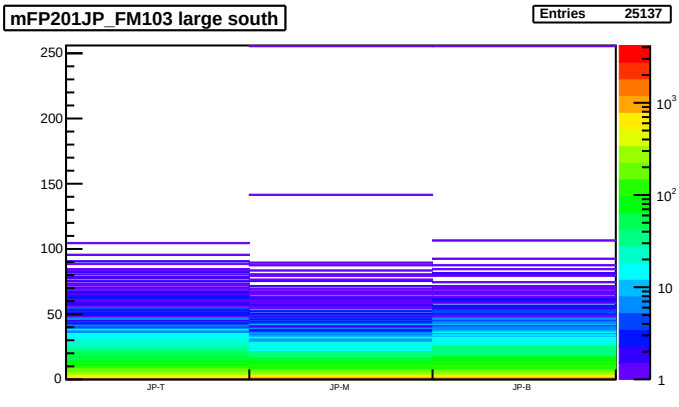

mFP201BSsim_FM104 large north
Entries 0
1
0
-1
BS3
BS2
BS1-T
BS1-M
BS1-B

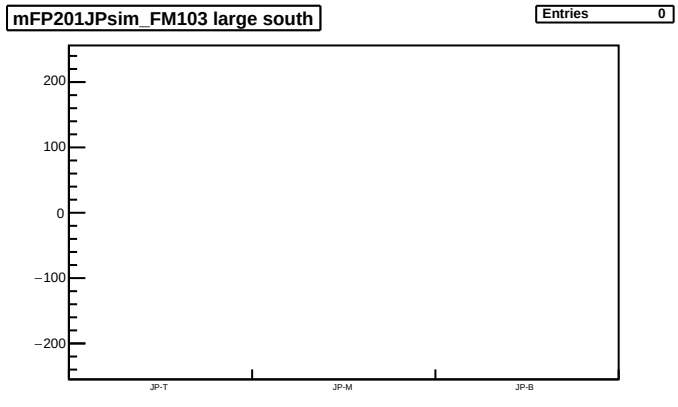

mFP201JP_FM101 small south
Entries 25137
250
200
150
100
50
0
JP-T
JP-M
JP-B
10^3
10^2
10
1

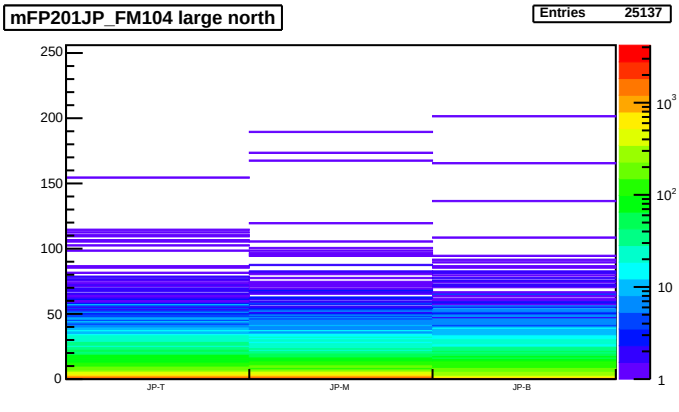

mFP201JPsim_FM101 small south
Entries 0
200
100
0
−100
−200
JP-T
JP-M
JP-B

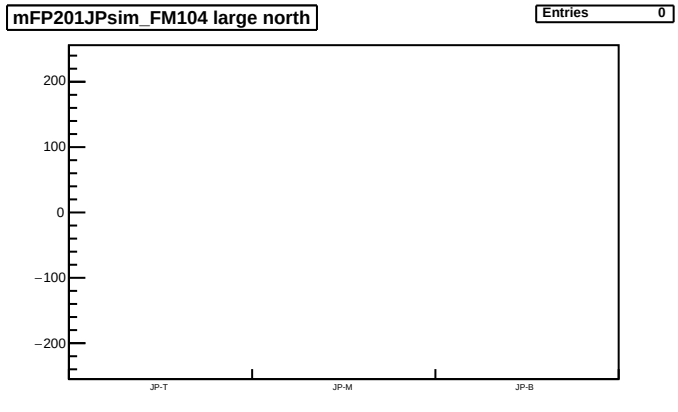

mFP201JP_FM102 small north
Entries 25137
250
200
150
100
50
0
JP-T
JP-M
JP-B
10^3
10^2
10
1

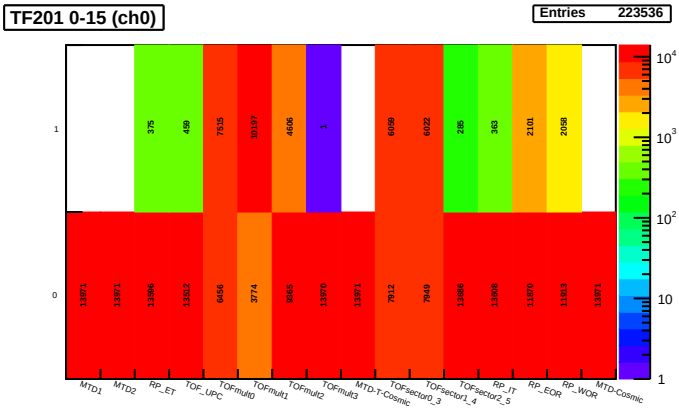

mFP201JPsim_FM102 small north
Entries 0
200
100
0
−100
−200
JP-T
JP-M
JP-B

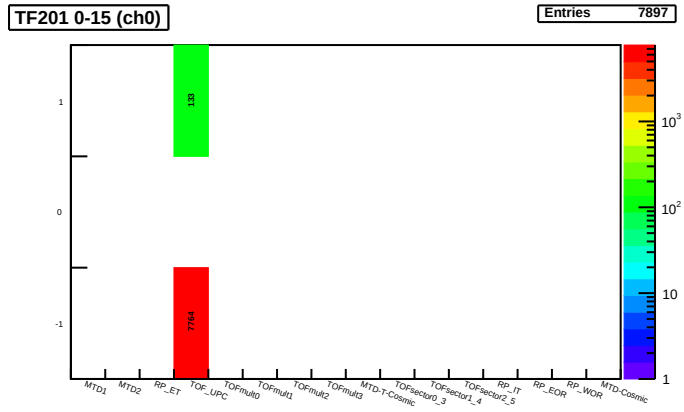

mFP201JP_FM103 large south
Entries 25137
250
200
150
100
50
0
JP-T
JP-M
JP-B
10^3
10^2
10
1

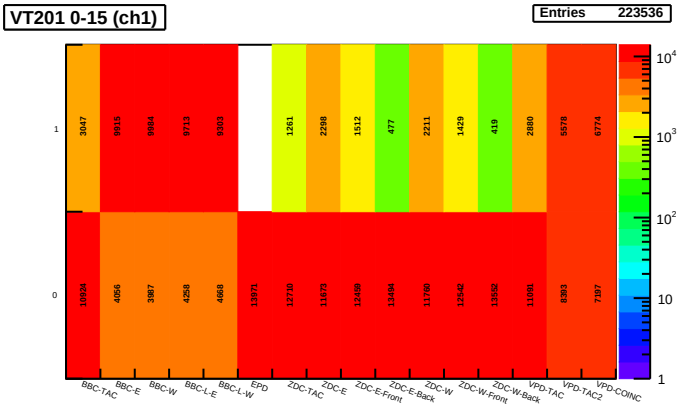

mFP201JPsim_FM103 large south
Entries 0
200
100
0
−100
−200
JP-T
JP-M
JP-B

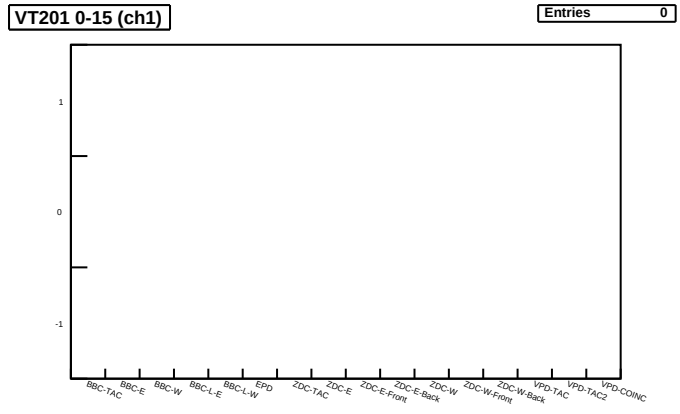

mFP201JP_FM104 large north
Entries 25137
250
200
150
100
50
0
JP-T
JP-M
JP-B
10^3
10^2
10
1

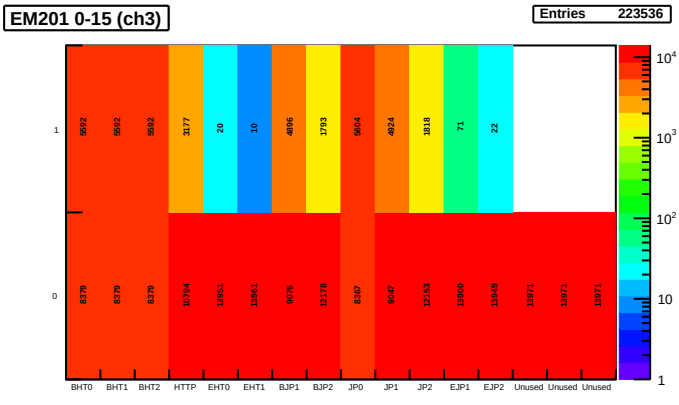

mFP201JPsim_FM104 large north
Entries 0
200
100
0
−100
−200
JP-T
JP-M
JP-B

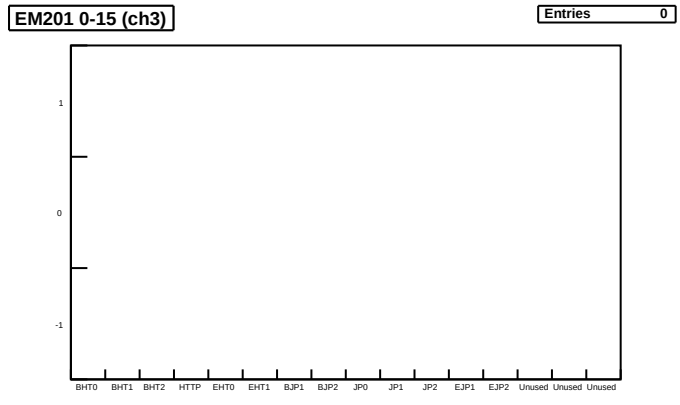

TF201 0-15 (ch0)
Entries 223536
MTD1 MTD2 RP_ET TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 MTD-T-Cosmic TOFsector0_3 TOFsector1_4 TOFsector2_5 RP_IT RP_EOR RP_WOR MTD-Cosmic

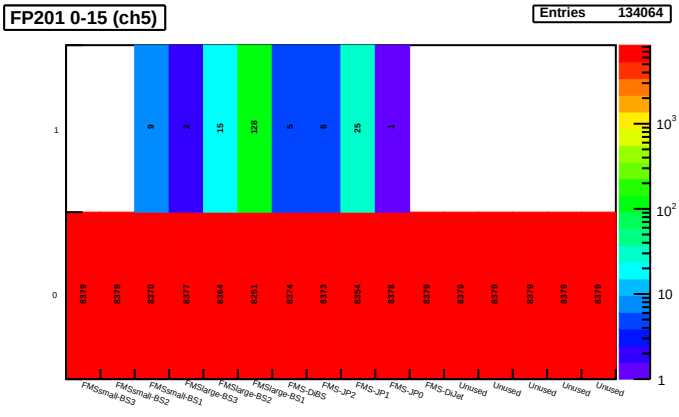

TF201 0-15 (ch0)
Entries 7897
MTD1 MTD2 RP_ET TOF_UPC TOFmult0 TOFmult1 TOFmult2 TOFmult3 MTD-T-Cosmic TOFsector0_3 TOFsector1_4 TOFsector2_5 RP_IT RP_EOR RP_WOR MTD-Cosmic

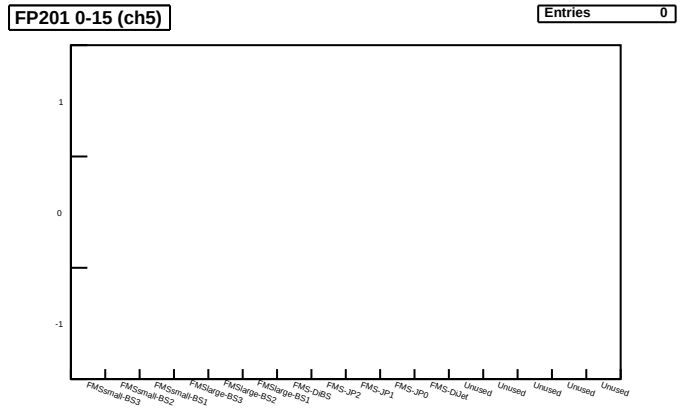

VT201 0-15 (ch1)
Entries 223536
BBC-TAC BBC-E BBC-W BBC-L-E BBC-L-W EPD ZDC-TAC ZDC-E ZDC-E-Front ZDC-E-Back ZDC-W ZDC-W-Front ZDC-W-Back VPD-TAC VPD-TAC2 VPD-COINC


VT201 0-15 (ch1)
Entries 0
BBC-TAC BBC-E BBC-W BBC-L-E BBC-L-W EPD ZDC-TAC ZDC-E ZDC-E-Front ZDC-E-Back ZDC-W ZDC-W-Front ZDC-W-Back VPD-TAC VPD-TAC2 VPD-COINC


EM201 0-15 (ch3)
Entries 223536
BHT0 BHT1 BHT2 HTTP EHT0 EHT1 BJP1 BJP2 JP0 JP1 JP2 EJP1 EJP2 Unused Unused Unused


EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 HTTP EHT0 EHT1 BJP1 BJP2 JP0 JP1 JP2 EJP1 EJP2 Unused Unused Unused


FP201 0-15 (ch5)
Entries 134064
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