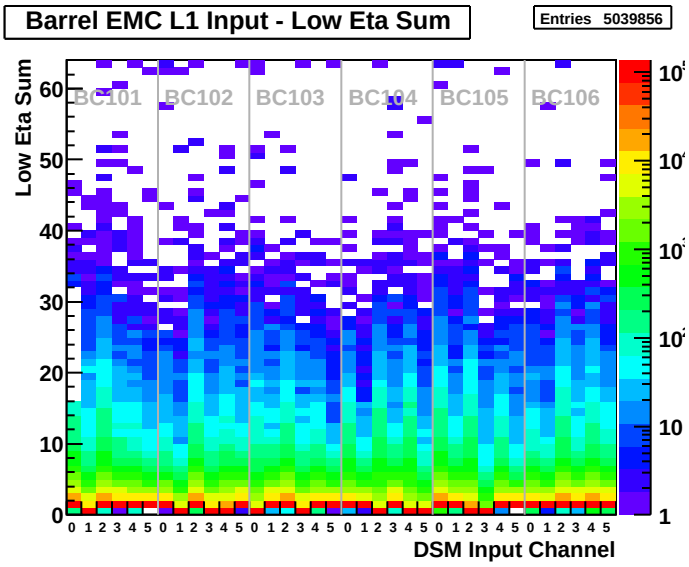
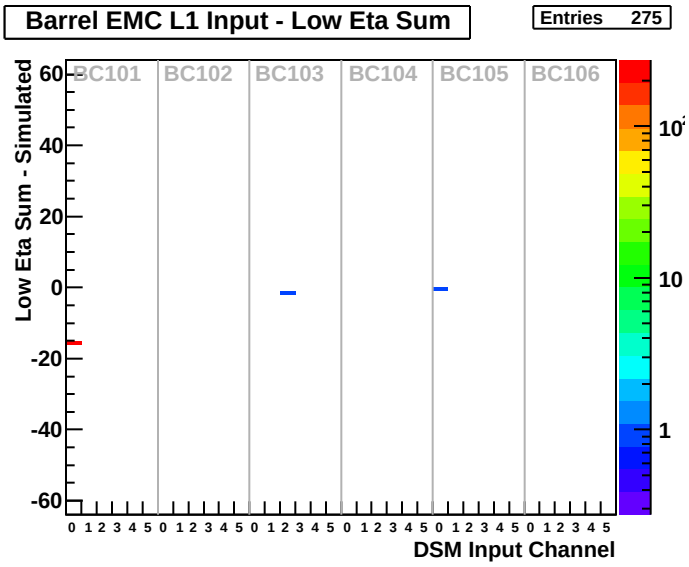
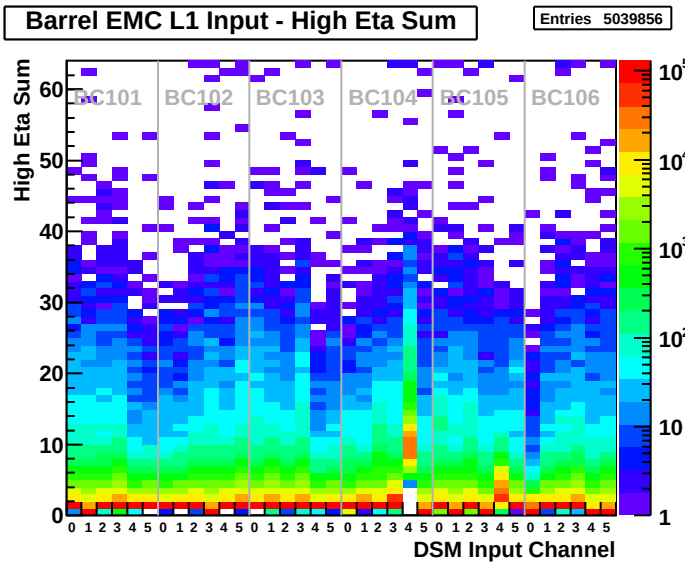
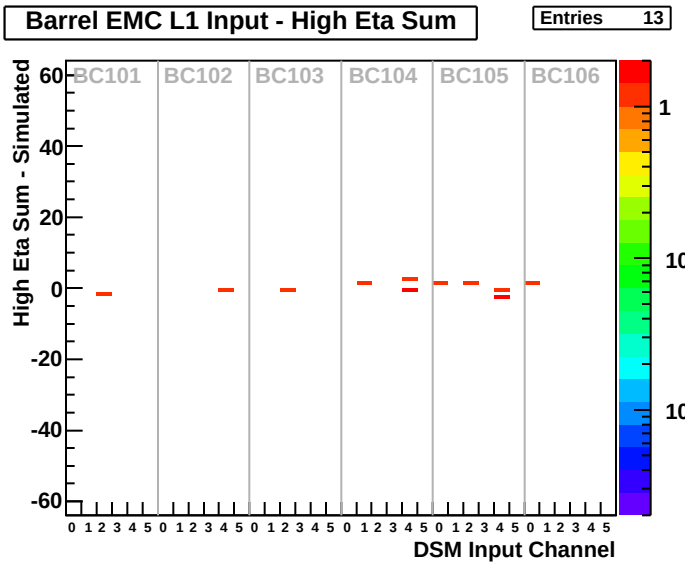
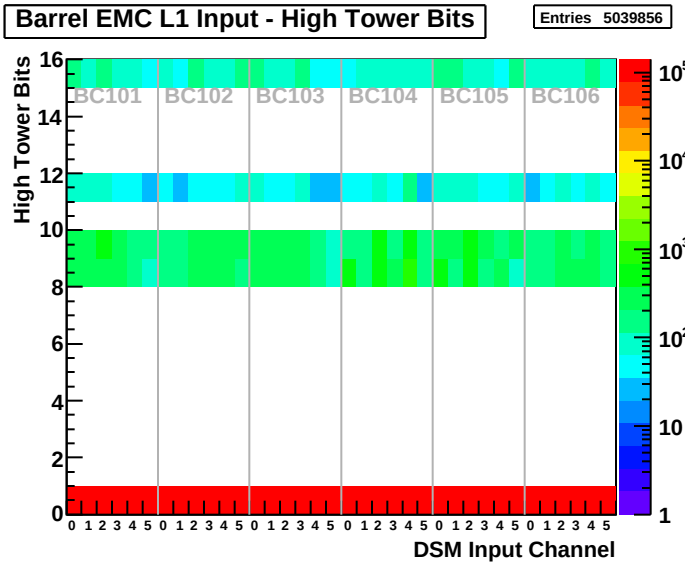
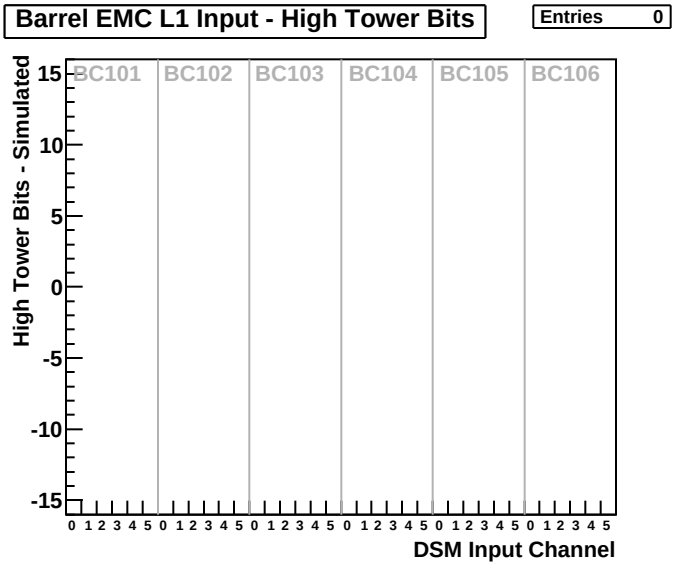

Barrel EMC L1 Input - Low Eta Sum
Entries 5039856
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

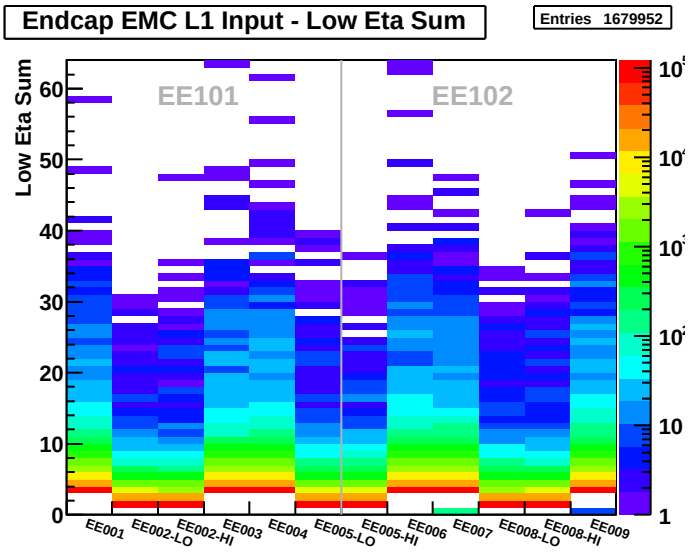

Barrel EMC L1 Input - Low Eta Sum
Entries 275
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

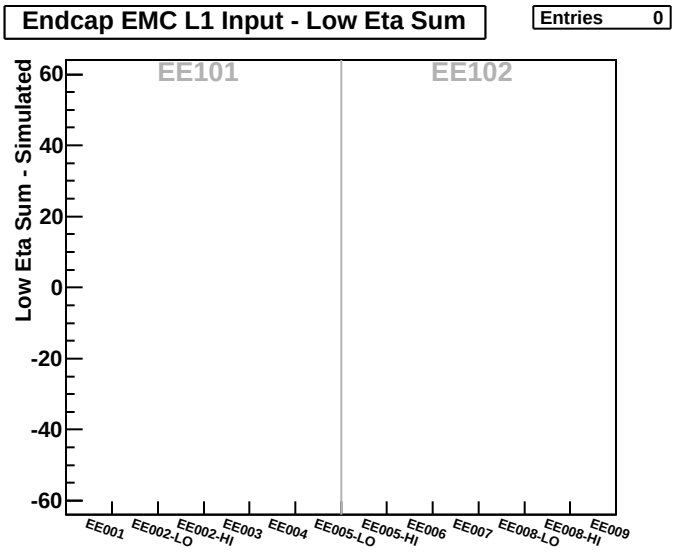

Barrel EMC L1 Input - High Eta Sum
Entries 5039856
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

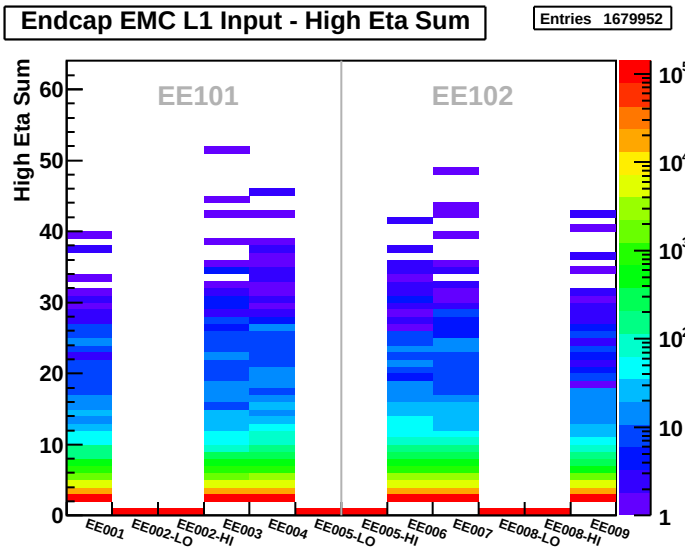

Barrel EMC L1 Input - High Eta Sum
Entries 13
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

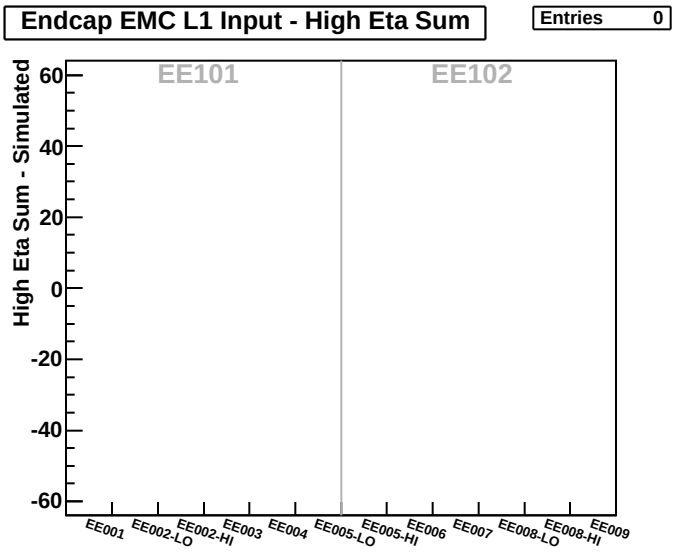

Barrel EMC L1 Input - High Tower Bits
Entries 5039856
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

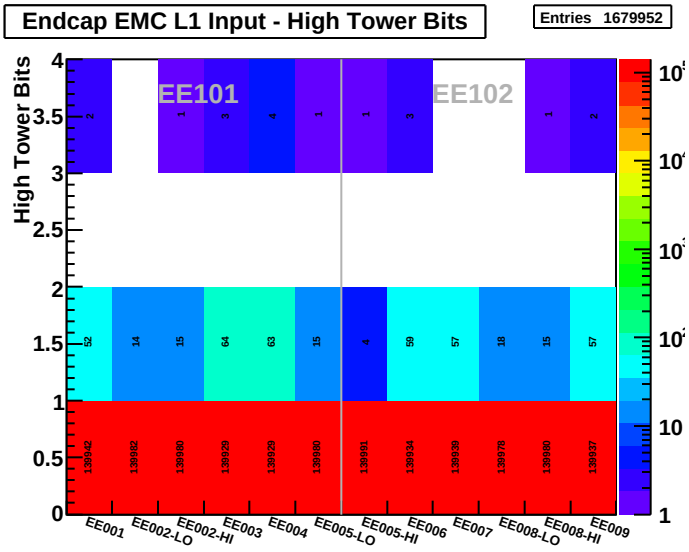

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

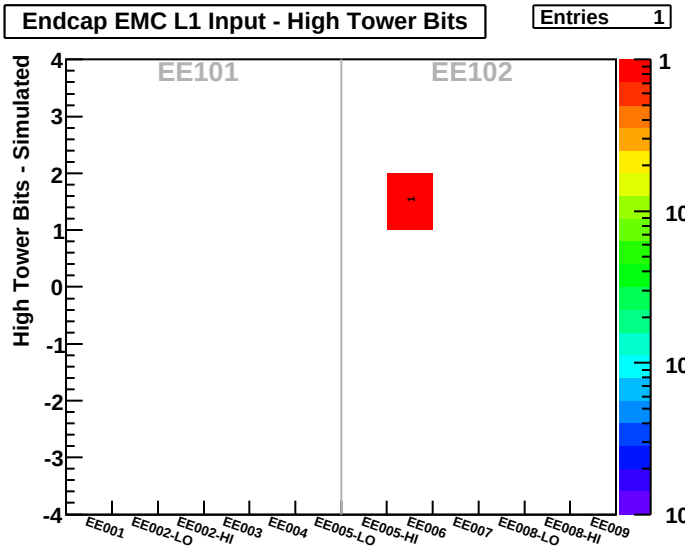

Endcap EMC L1 Input - Low Eta Sum
Entries 1679952
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

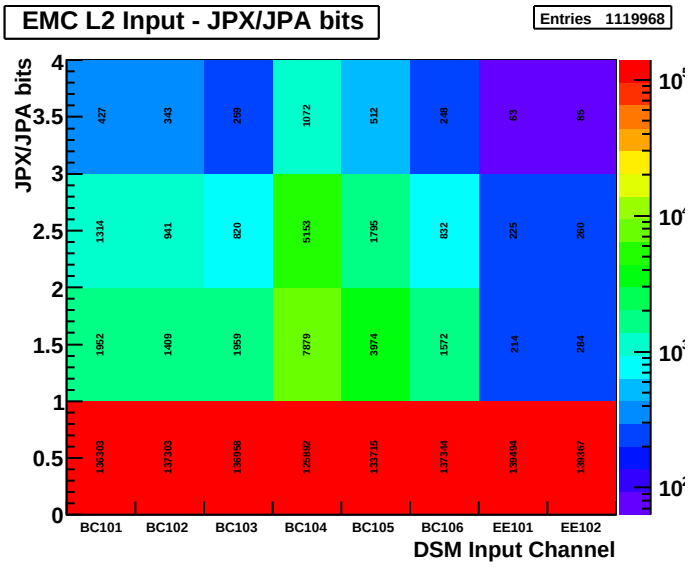

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

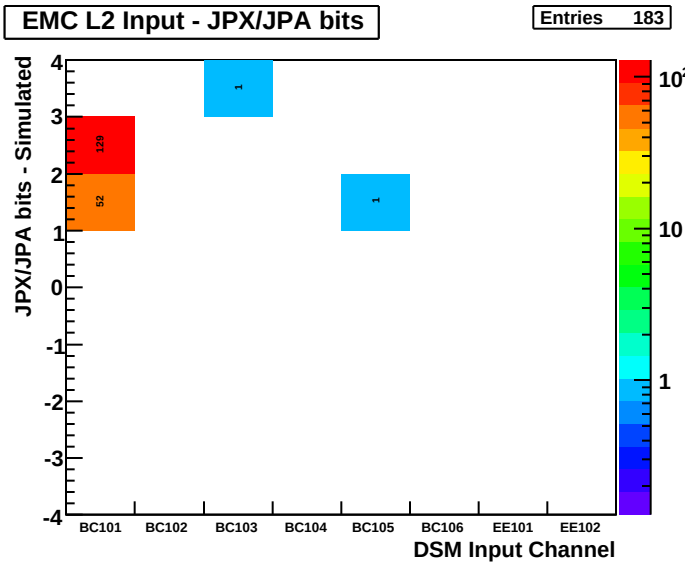

Endcap EMC L1 Input - High Eta Sum
Entries 1679952
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

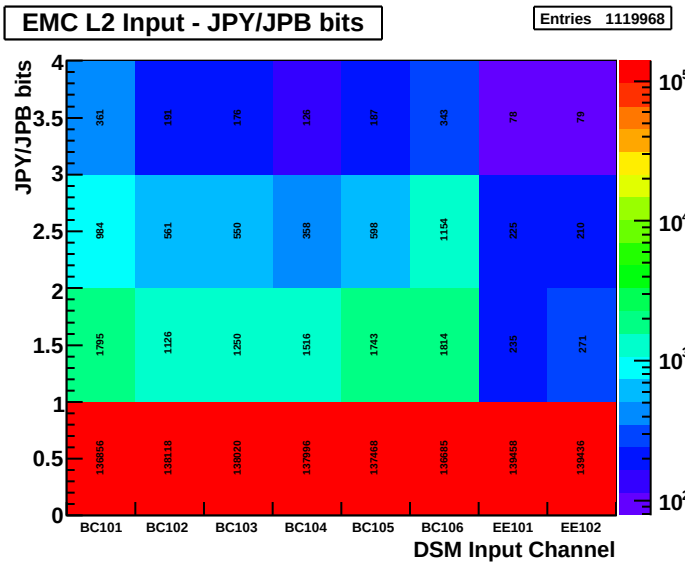

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

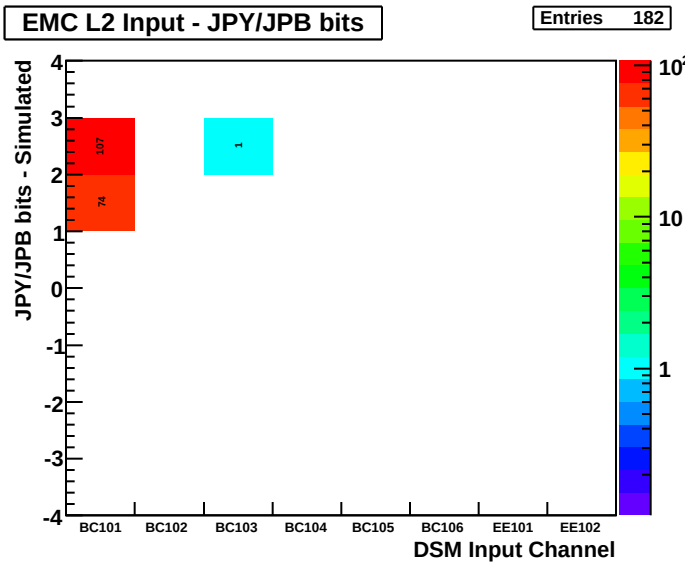

Endcap EMC L1 Input - High Tower Bits
Entries 1679952
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

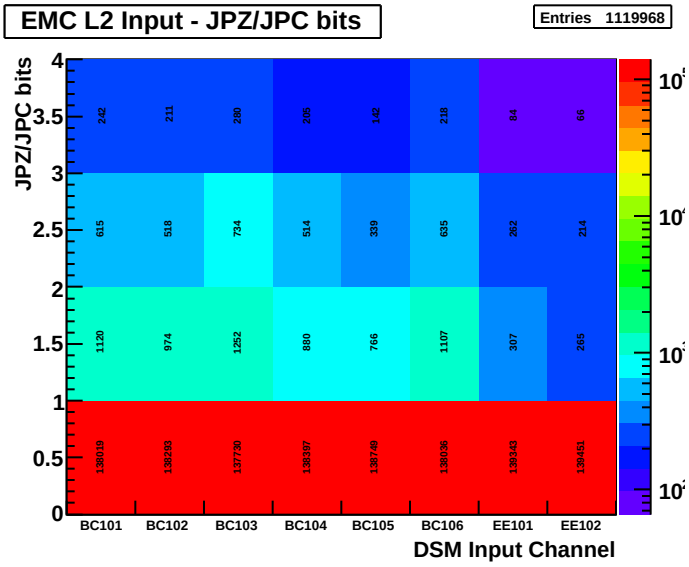

Endcap EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

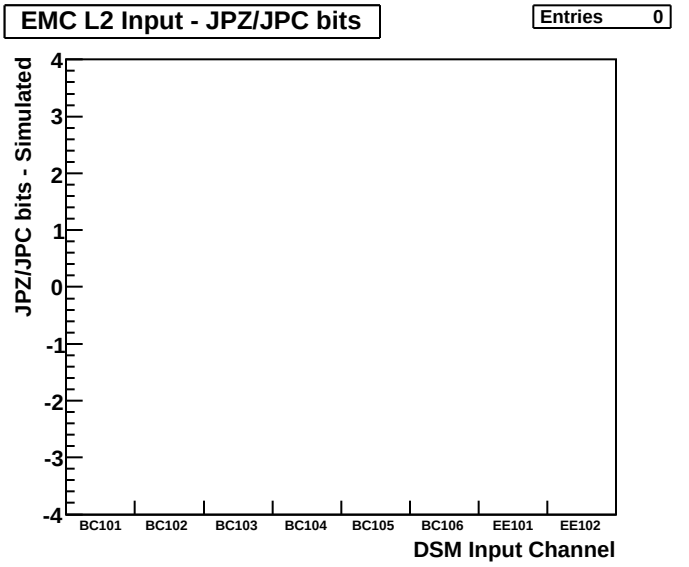

EMC L2 Input - JPX/JPA bits
Entries 1119968
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
427 343 259 1072 512 248 63 85
1314 941 820 5153 1795 832 225 260
1952 1409 1959 7879 3974 1572 214 284
136303 137303 136938 125892 133715 137344 139494 139367

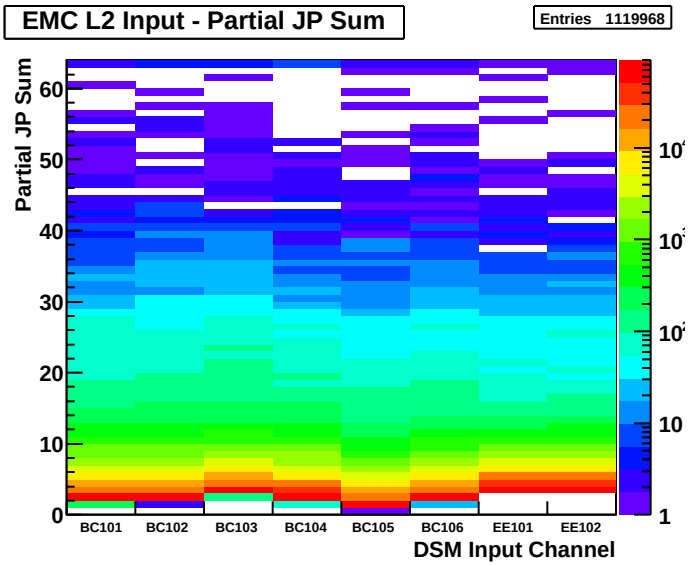

EMC L2 Input - JPX/JPA bits
Entries 183
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
129
52
1
1

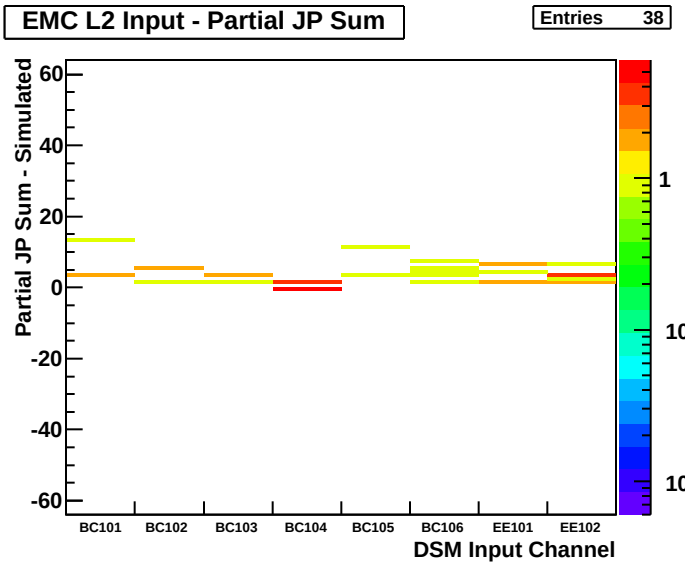

EMC L2 Input - JPY/JPB bits
Entries 1119968
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
361 191 176 126 187 343 78 79
984 561 550 358 598 1154 225 210
1795 1126 1250 1516 1743 1814 235 271
136856 138118 138020 137996 137468 136685 139458 139436

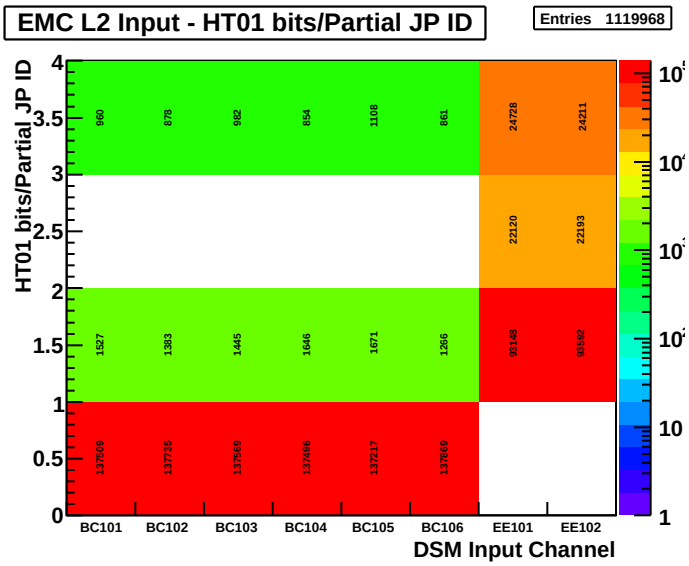

EMC L2 Input - JPY/JPB bits
Entries 182
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
107
74
1

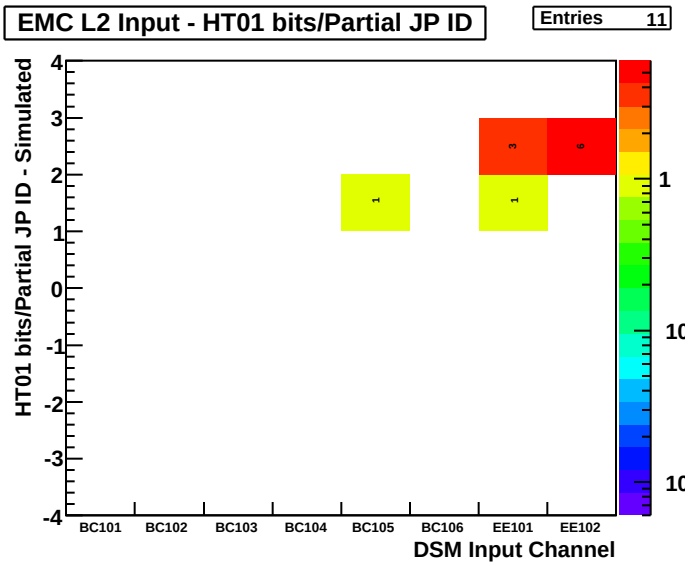

EMC L2 Input - JPZ/JPC bits
Entries 1119968
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
242 211 280 205 142 218 84 66
615 518 734 514 339 635 262 214
1120 974 1252 880 766 1107 307 265
138019 138293 137730 138397 138749 138038 139343 139451

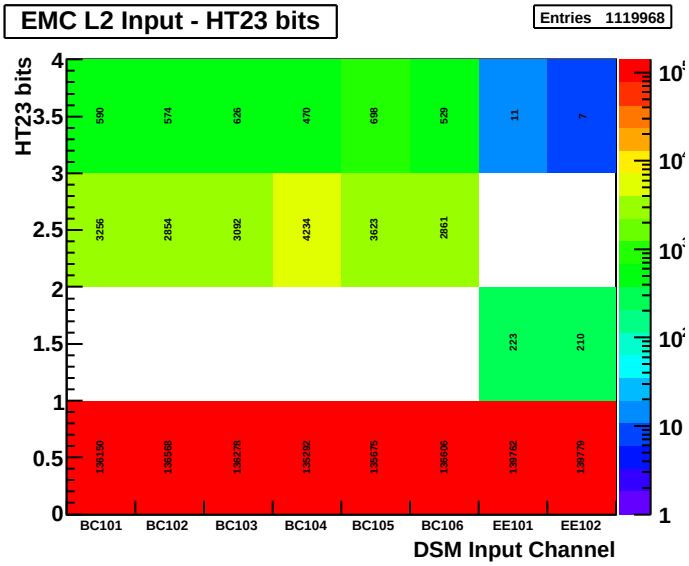

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

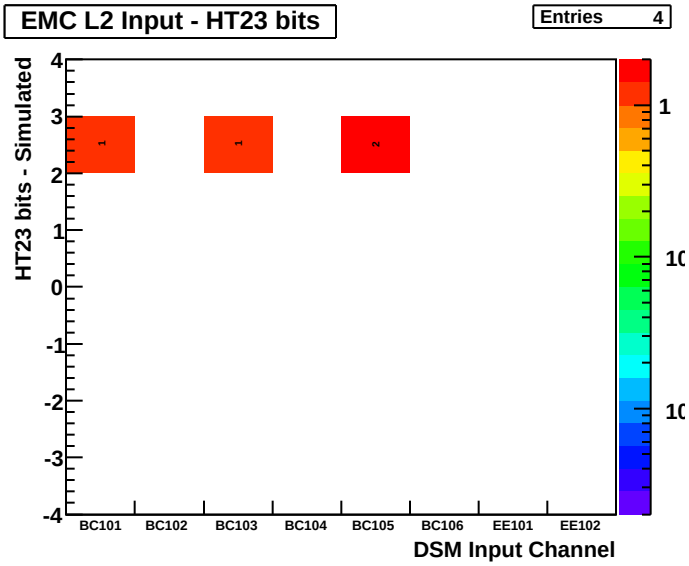

EMC L2 Input - Partial JP Sum
Entries 1119968
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

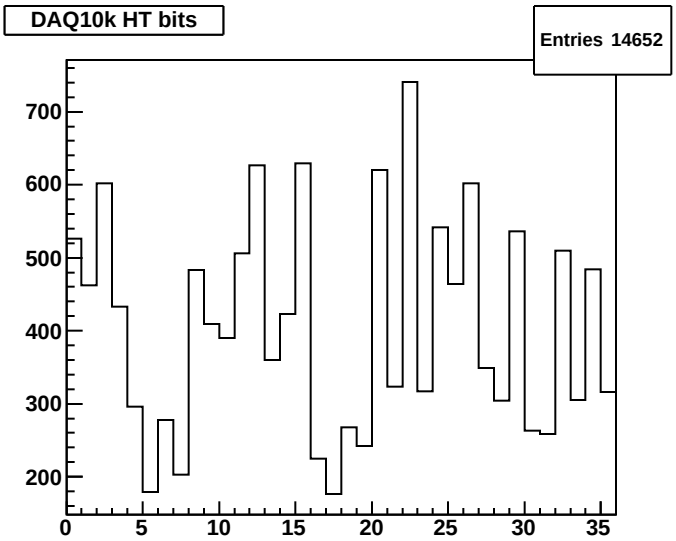

EMC L2 Input - Partial JP Sum
Entries 38
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

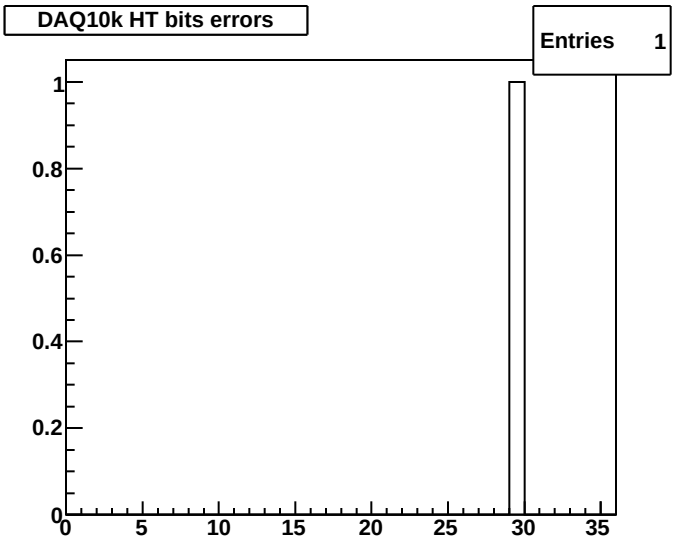

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1119968
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

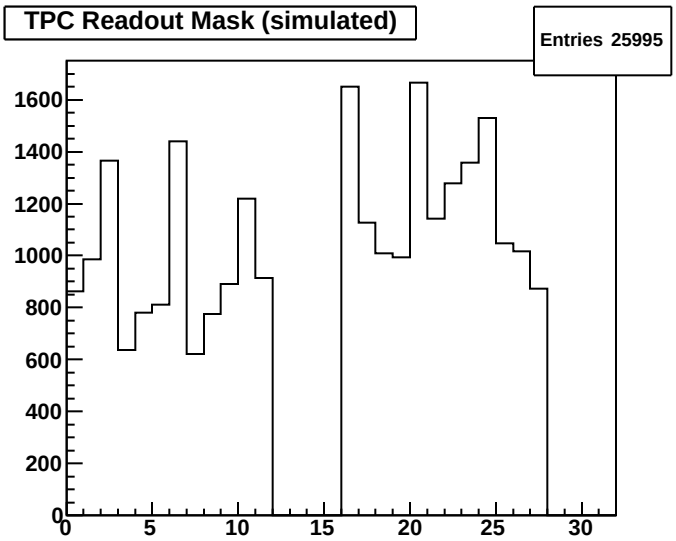

EMC L2 Input - HT01 bits/Partial JP ID
Entries 11
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

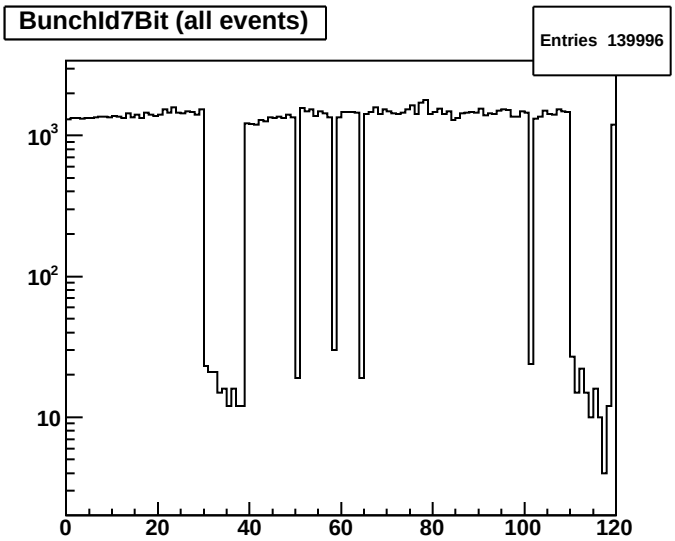

EMC L2 Input - HT23 bits
Entries 1119968
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

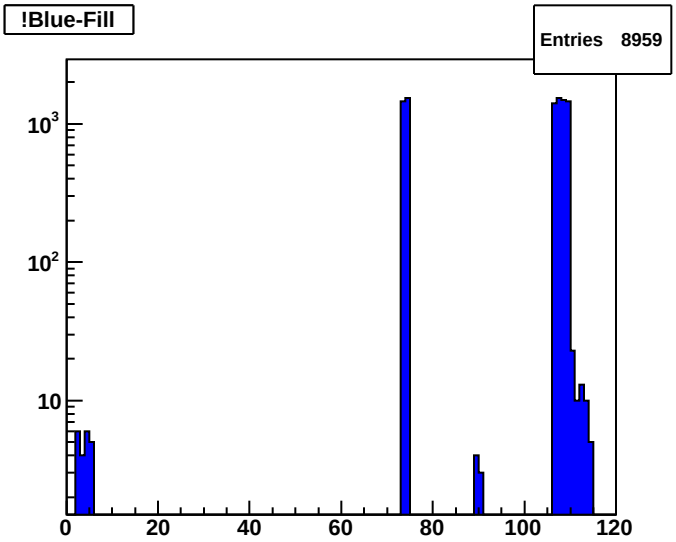

EMC L2 Input - HT23 bits
Entries 4
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

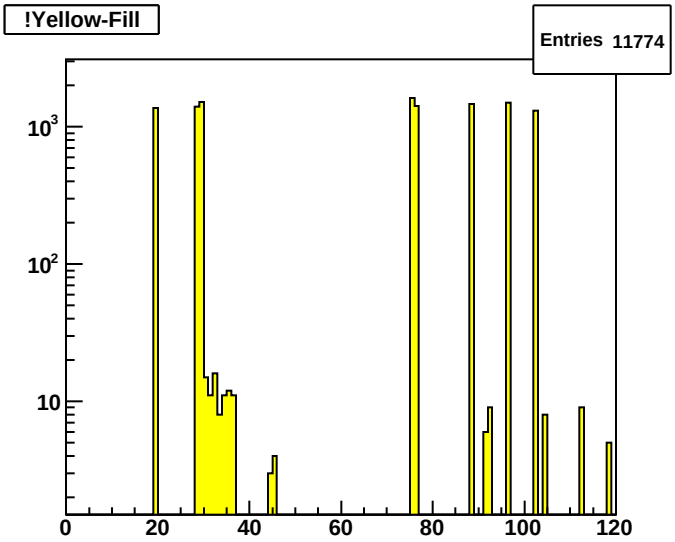

DAQ10k HT bits
Entries 14652

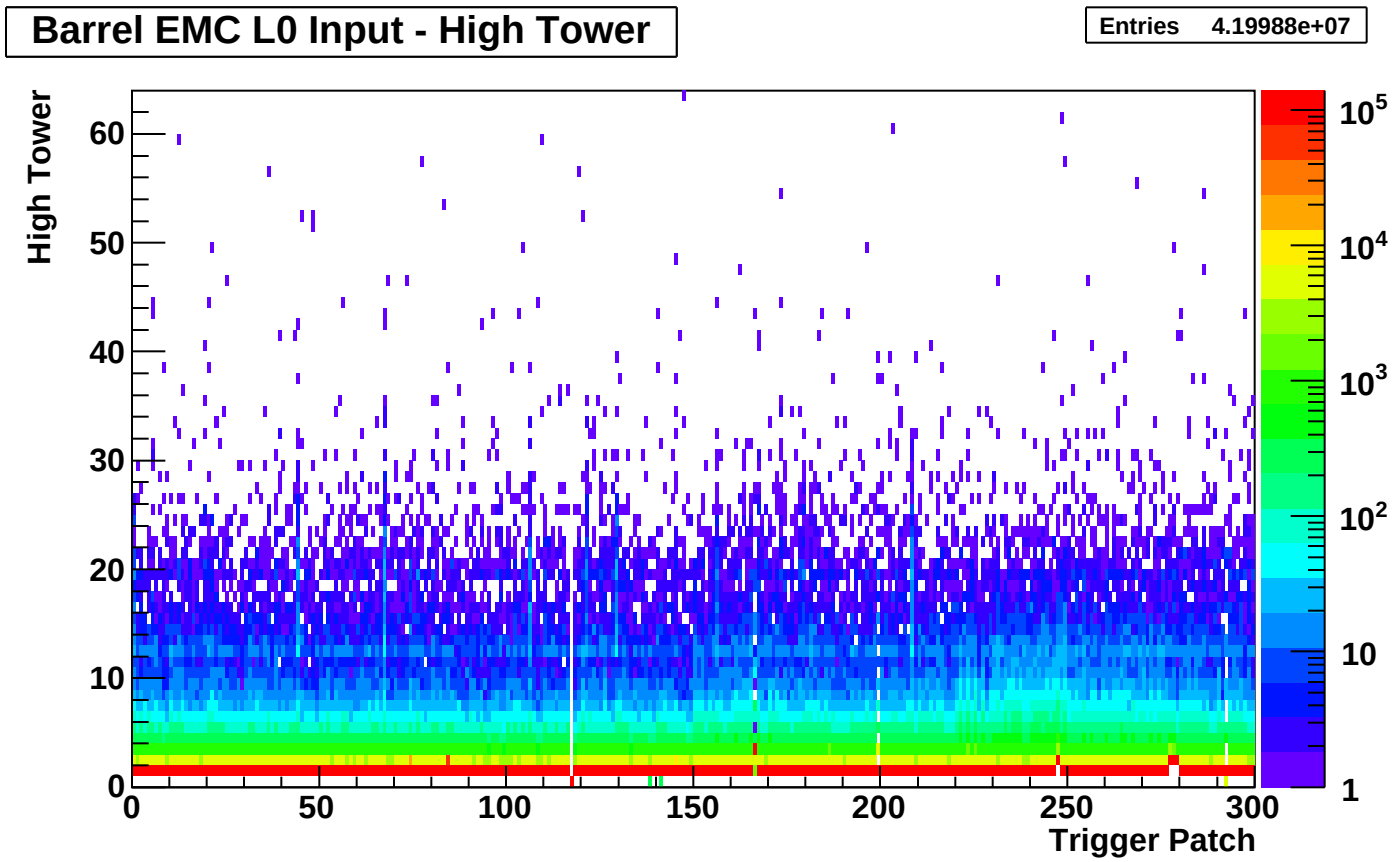

DAQ10k HT bits errors
Entries 1

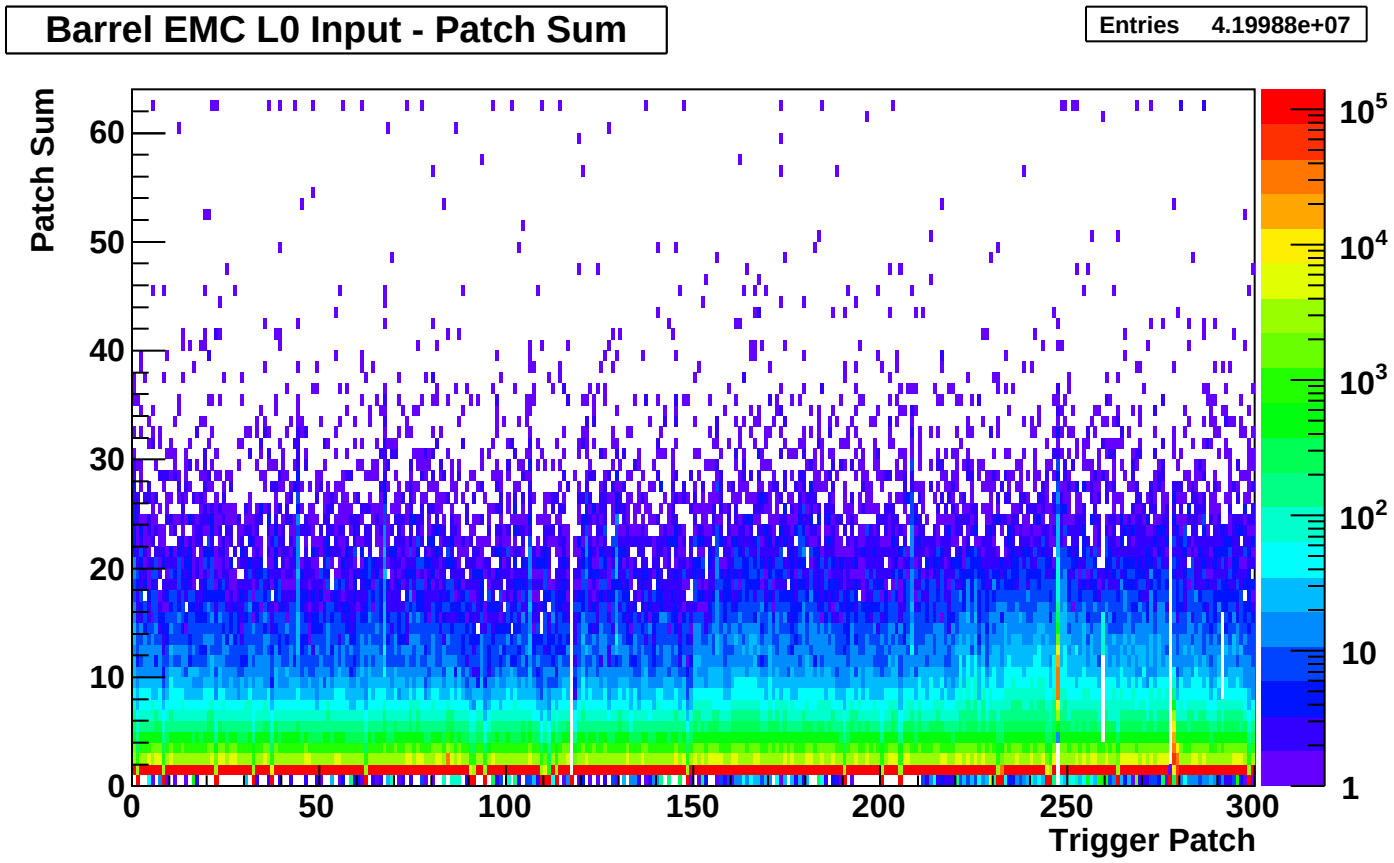

TPC Readout Mask (simulated)
Entries 25995

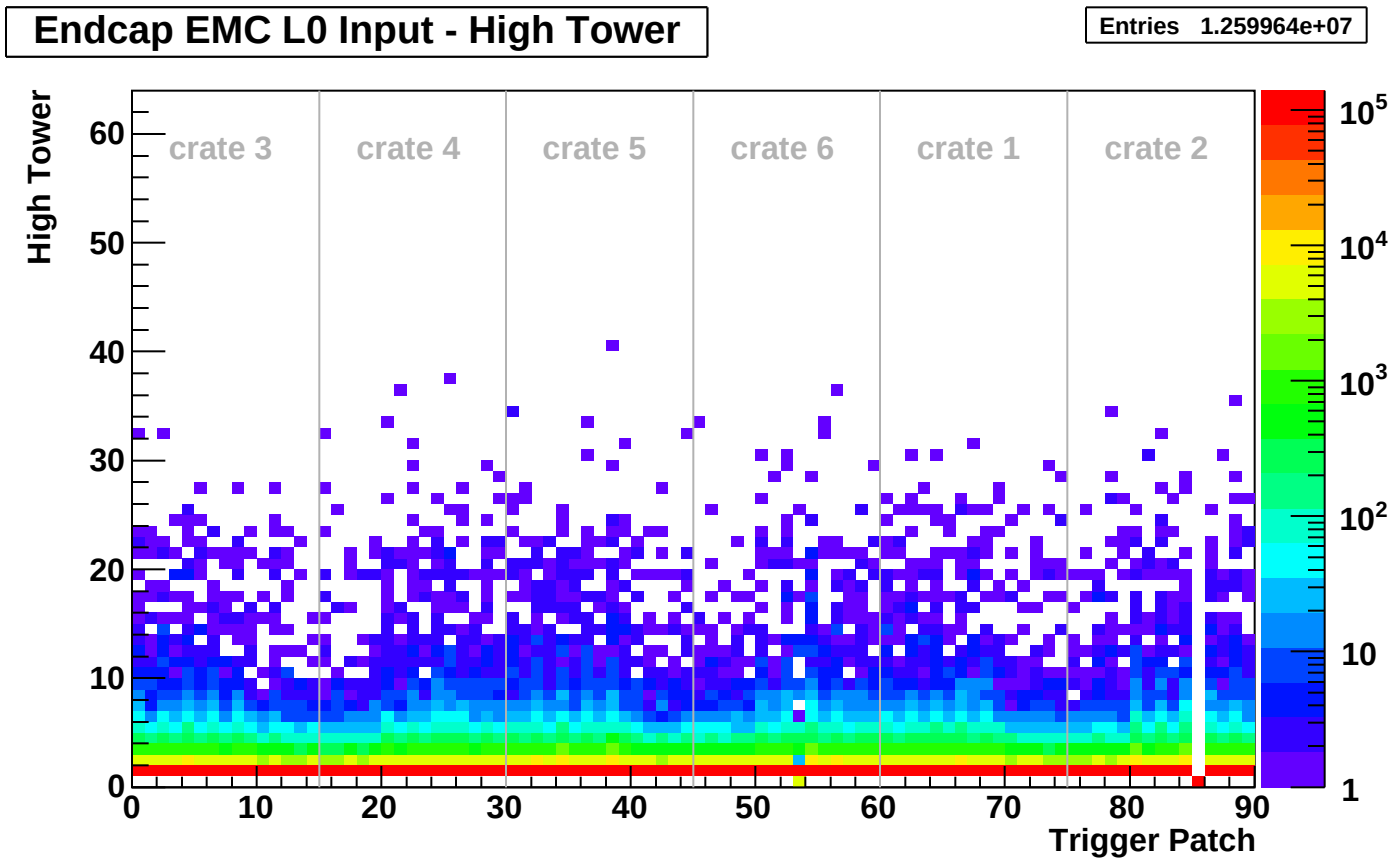

BunchId7Bit (all events)
Entries 139996

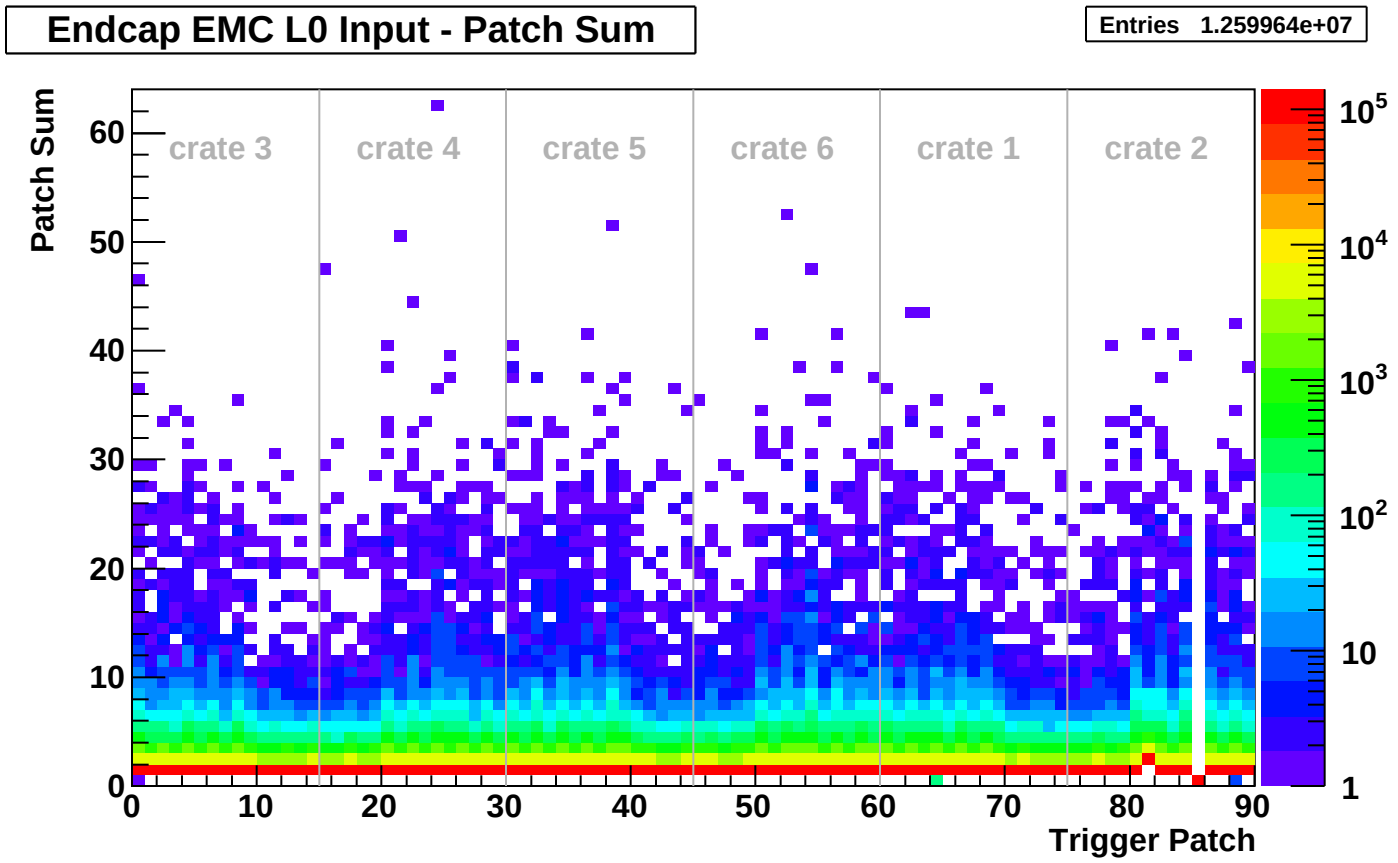

!Blue-Fill
Entries 8959

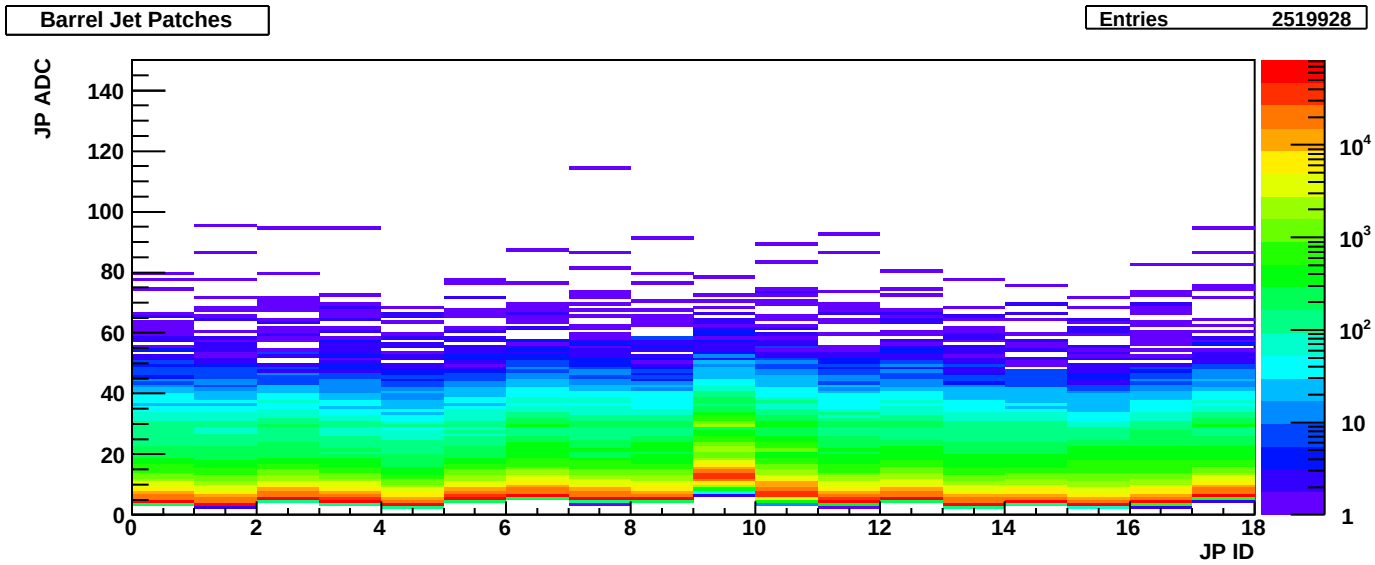

!Yellow-Fill
Entries 11774

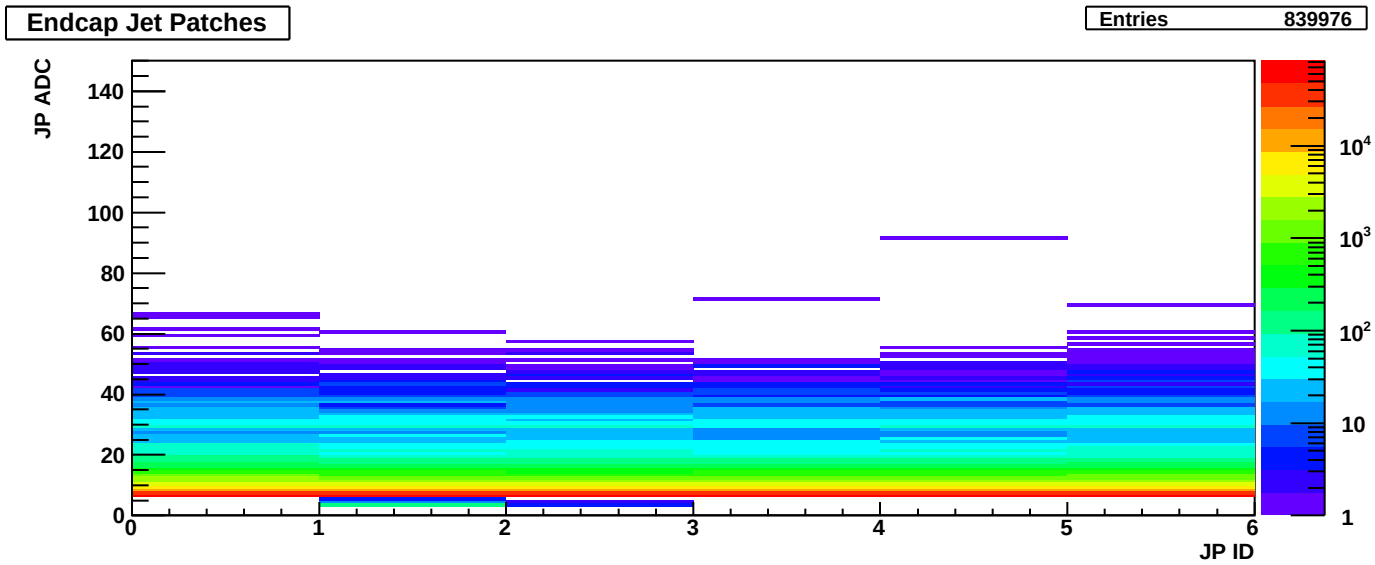

Barrel EMC L0 Input - High Tower
Entries 4.19988e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

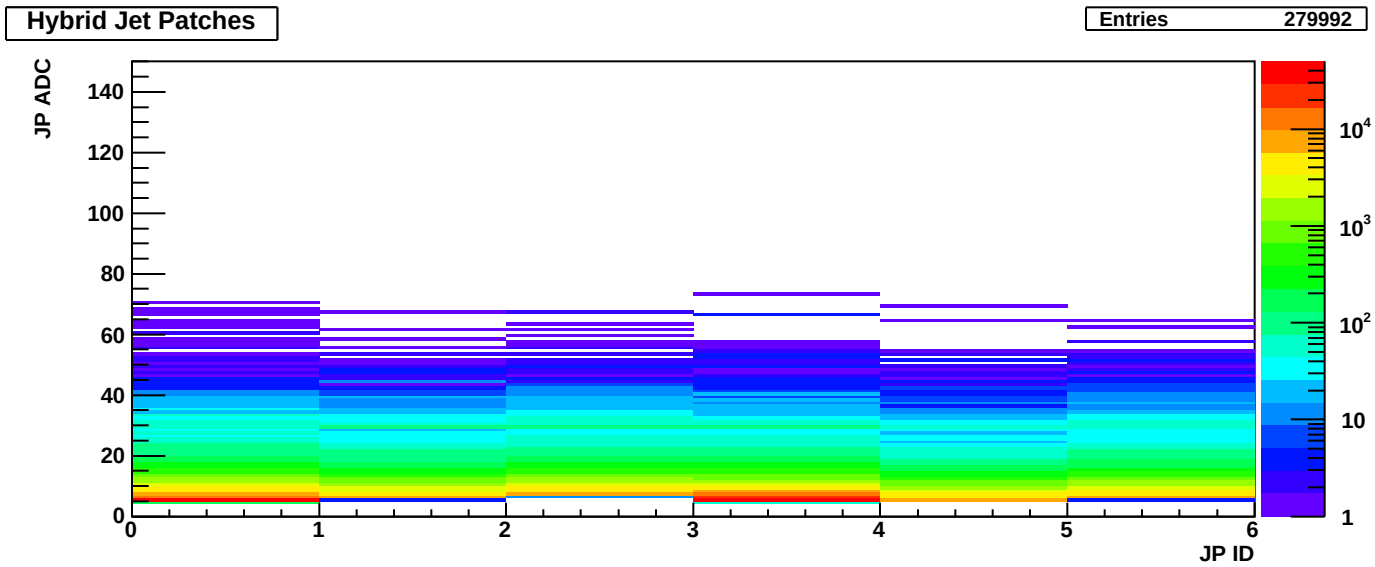

Barrel EMC L0 Input - Patch Sum
Entries 4.19988e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

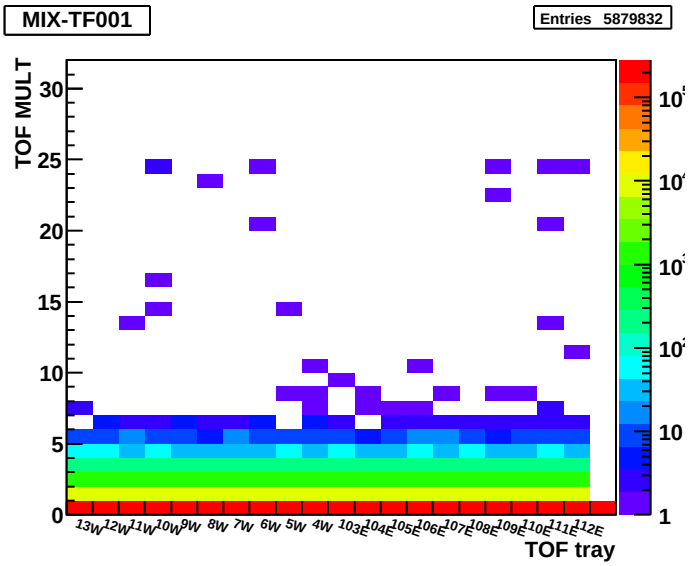

Endcap EMC L0 Input - High Tower
Entries 1.259964e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

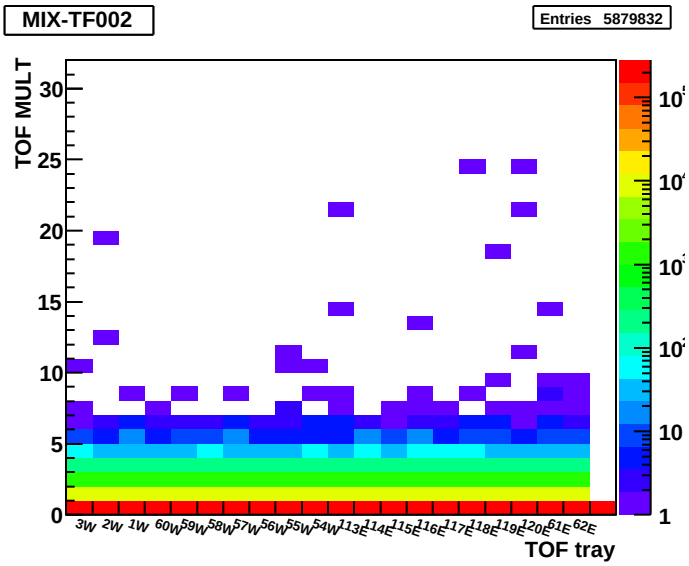

Endcap EMC L0 Input - Patch Sum
Entries 1.259964e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

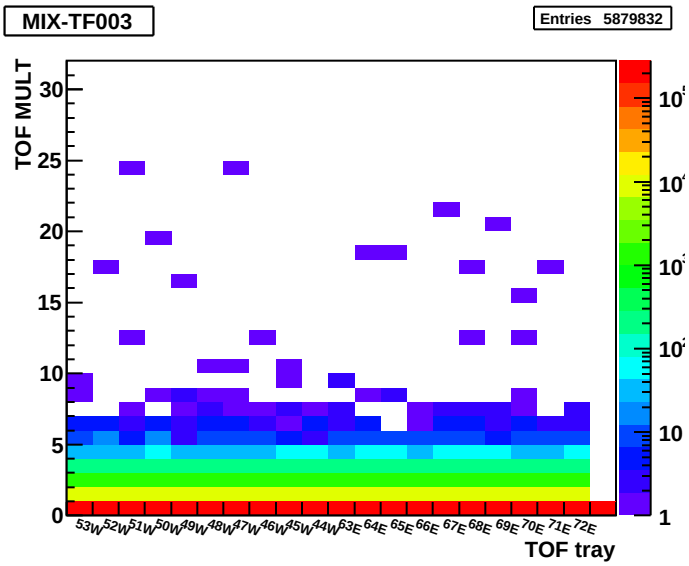

Barrel Jet Patches
Entries 2519928
JP ADC
JP ID

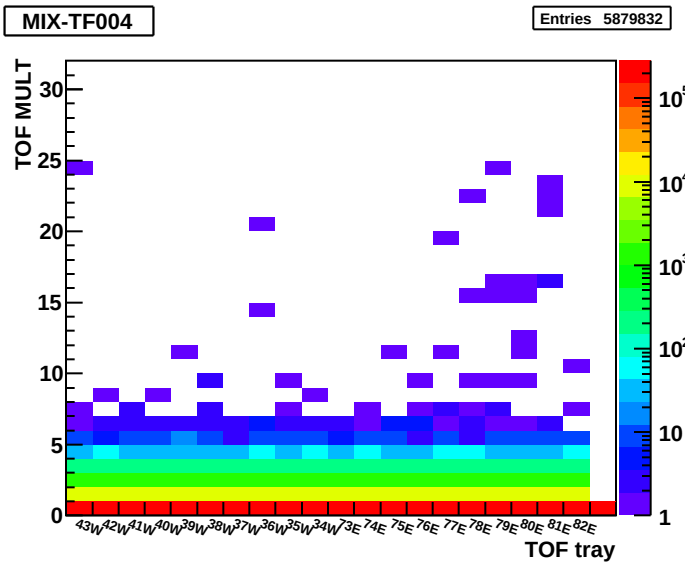

Endcap Jet Patches
Entries 839976
JP ADC
JP ID

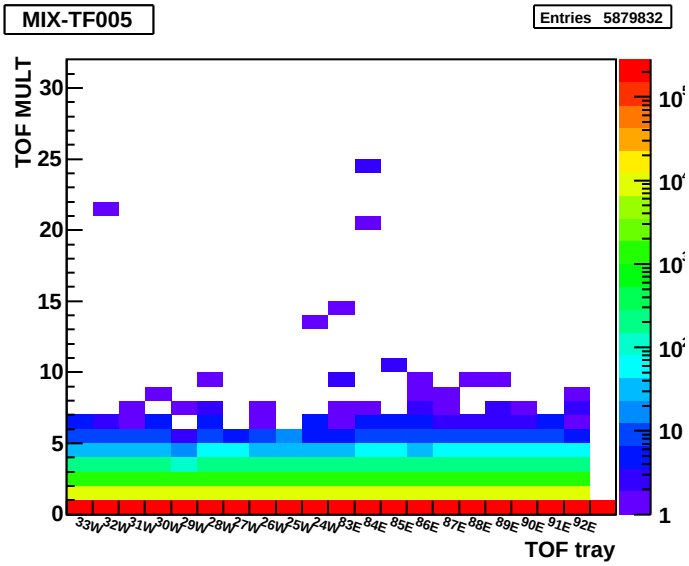

Hybrid Jet Patches
Entries 279992
JP ADC
JP ID

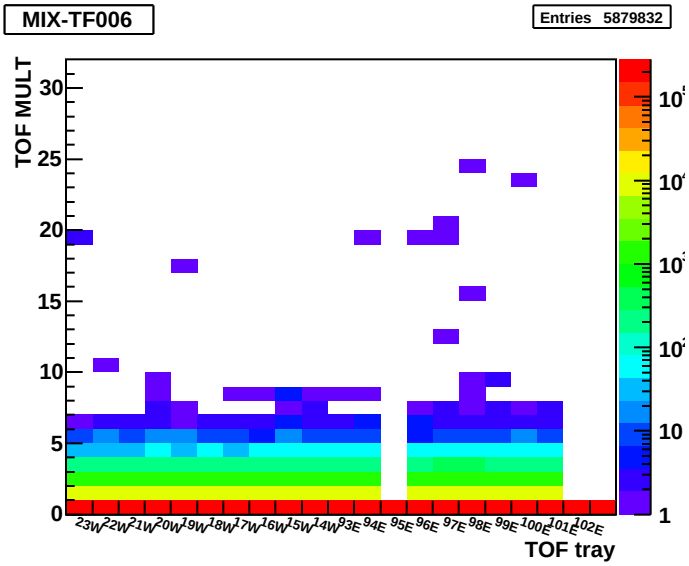

MIX-TF001
Entries 5879832
TOF MULT
TOF tray

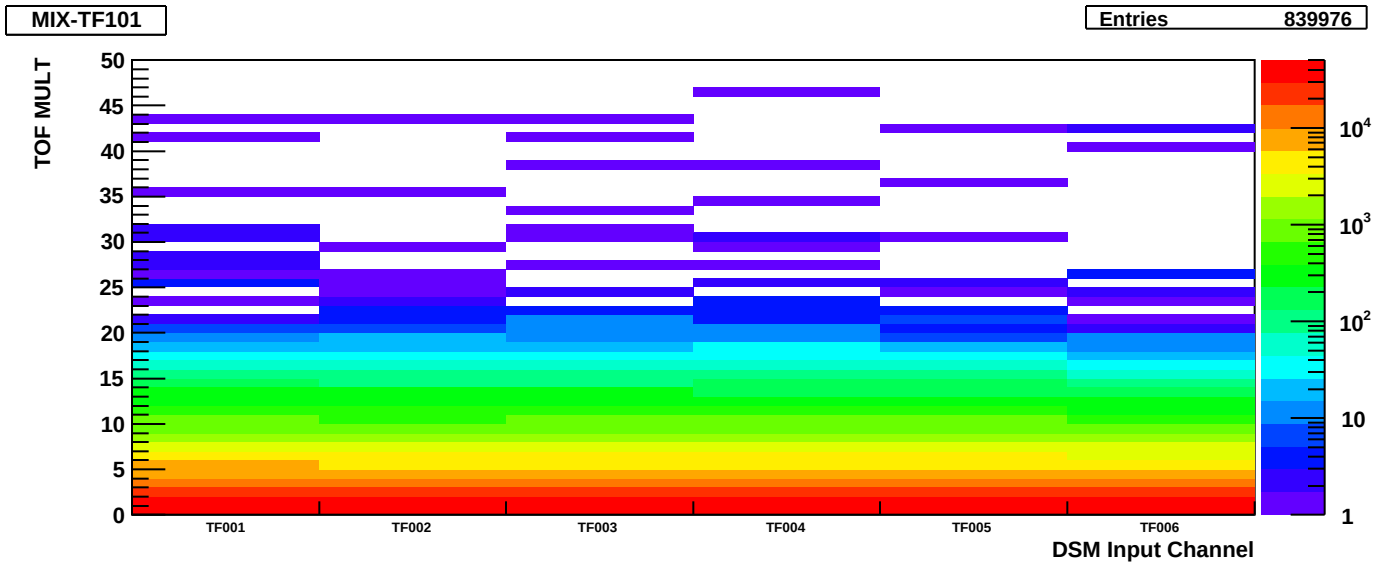

MIX-TF002
Entries 5879832
TOF MULT
TOF tray

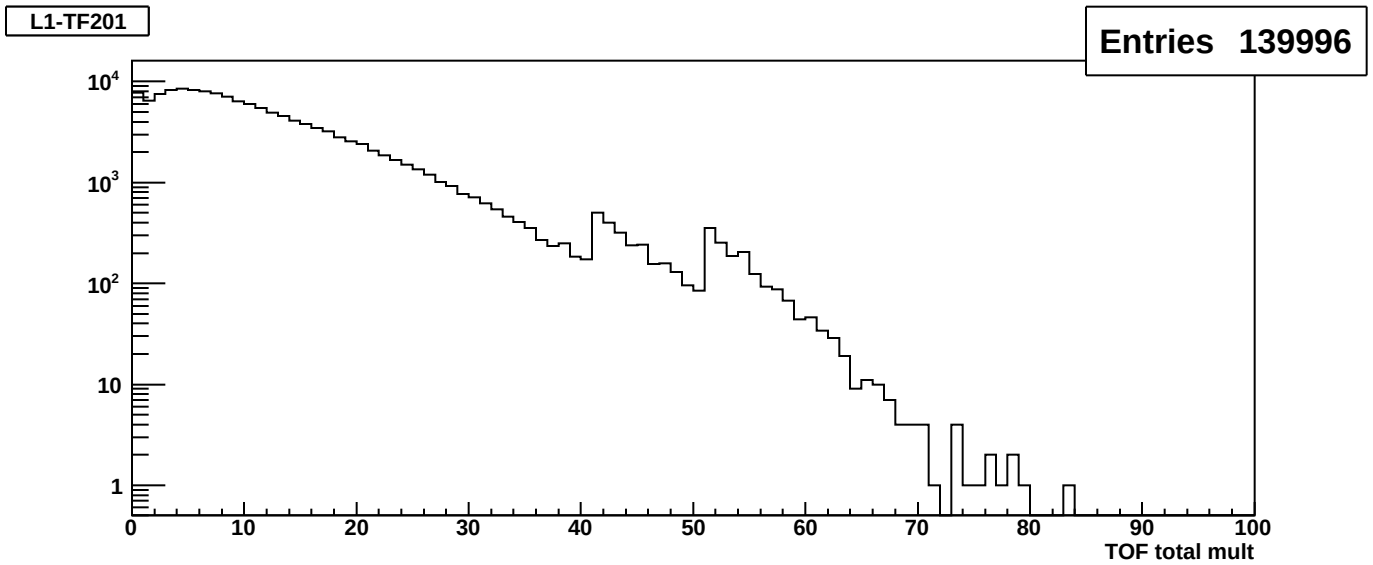

MIX-TF003
Entries 5879832
TOF MULT
TOF tray

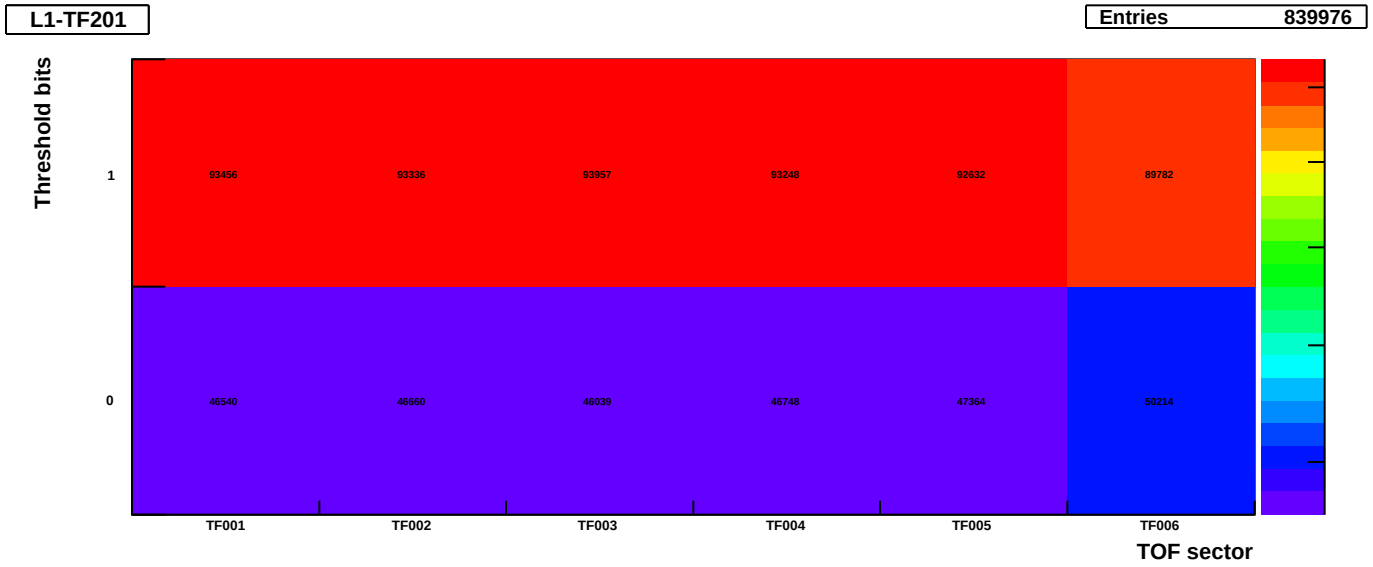

MIX-TF004
Entries 5879832
TOF MULT
TOF tray

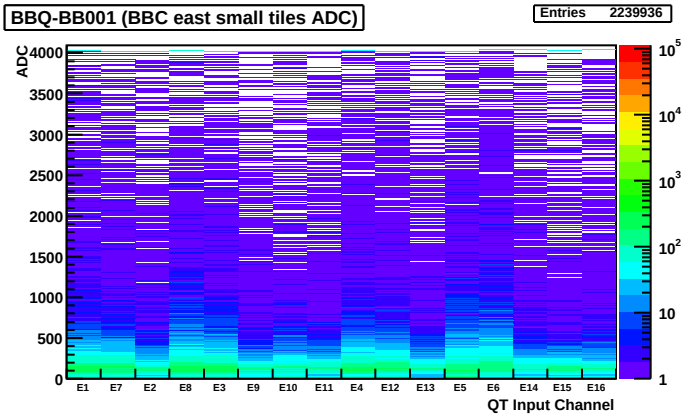

MIX-TF005
Entries 5879832
TOF MULT
TOF tray

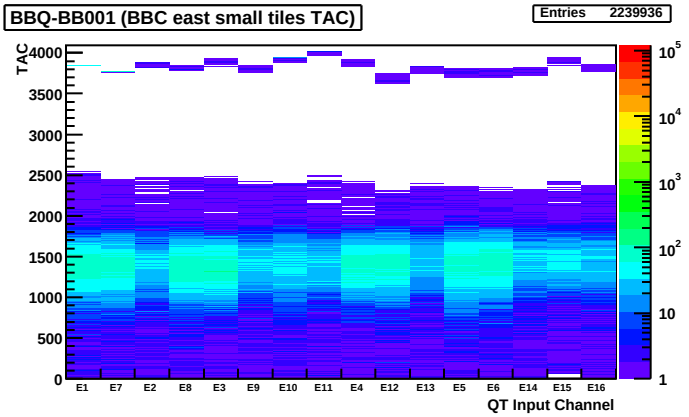

MIX-TF006
Entries 5879832
TOF MULT
TOF tray

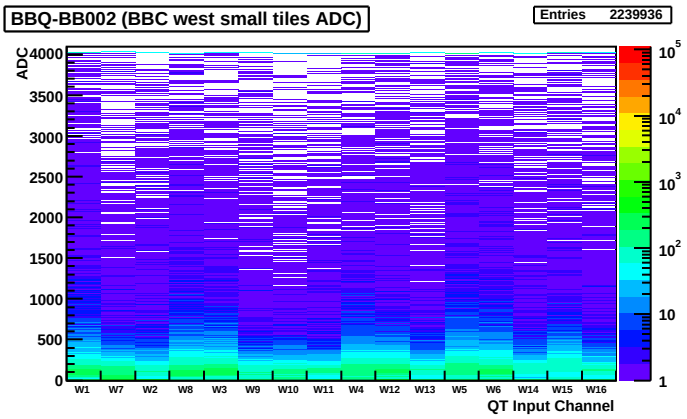

MIX-TF101
Entries 839976
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

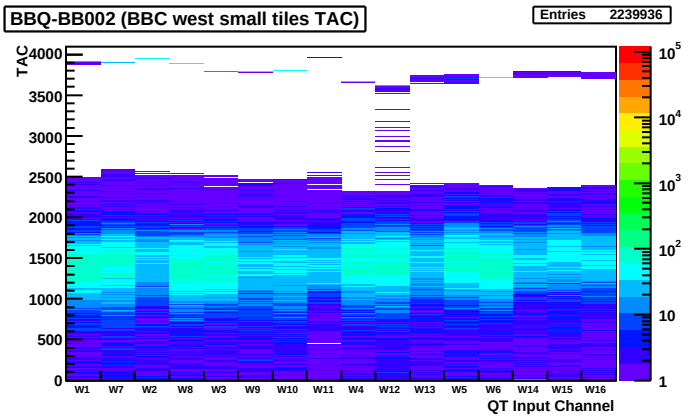

L1-TF201
Entries 139996
TOF total mult

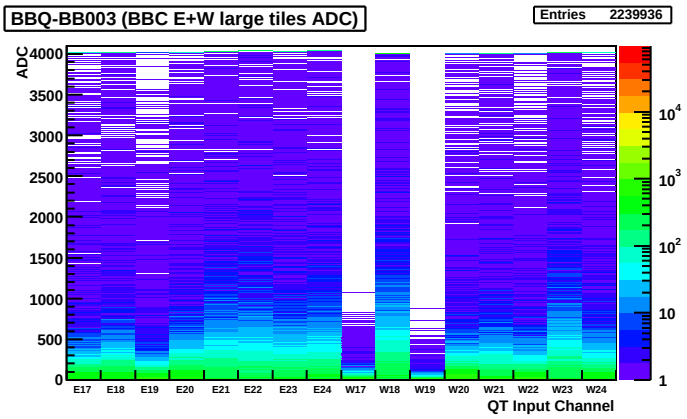

L1-TF201
Entries 839976
Threshold bits
93456
93336
93957
93248
92632
89782
46540
46660
46039
46748
47364
50214
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

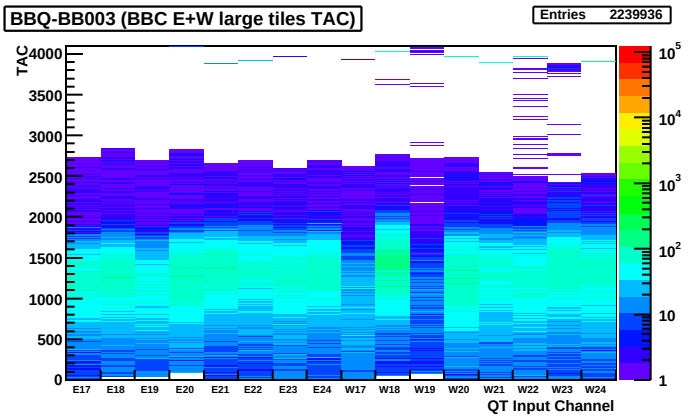

BBQ-BB001 (BBC east small tiles ADC)
Entries 2239936
ADC
QT Input Channel

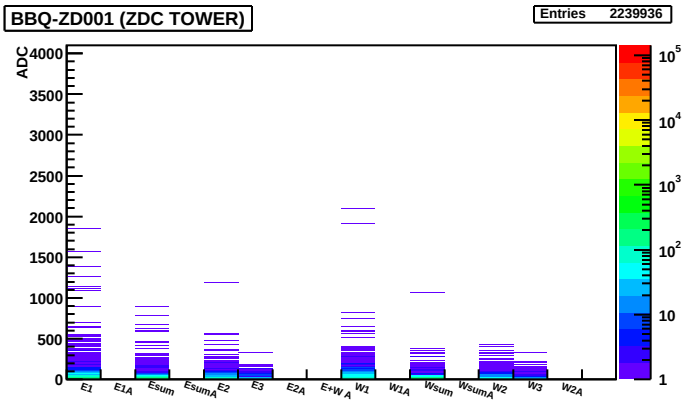

BBQ-BB001 (BBC east small tiles TAC)
Entries 2239936
TAC
QT Input Channel

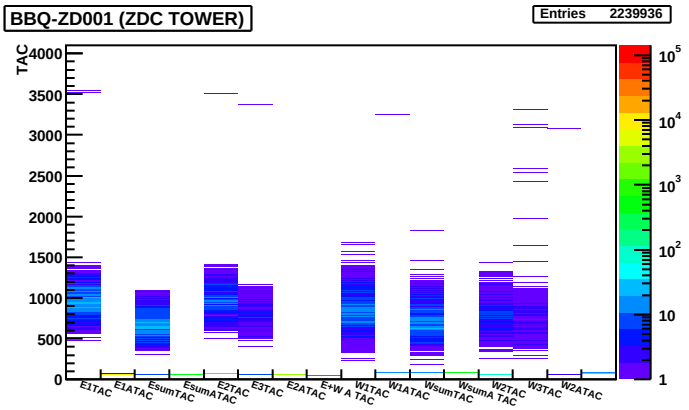

BBQ-BB002 (BBC west small tiles ADC)
Entries 2239936
ADC
QT Input Channel

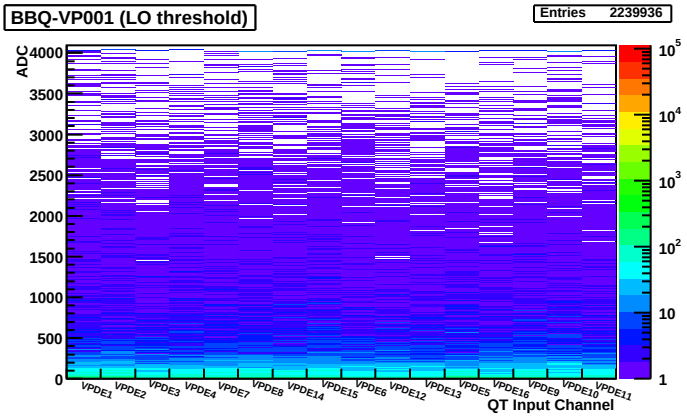

BBQ-BB002 (BBC west small tiles TAC)
Entries 2239936
TAC
QT Input Channel

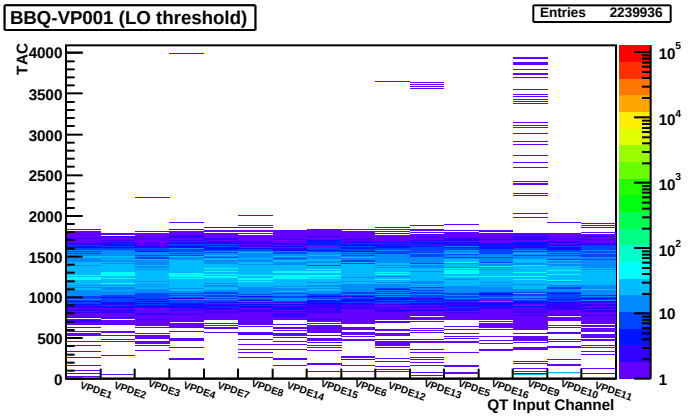

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2239936
ADC
QT Input Channel

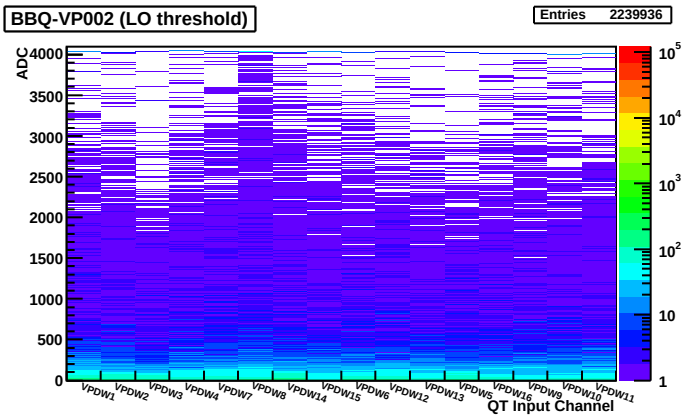

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2239936
TAC
QT Input Channel

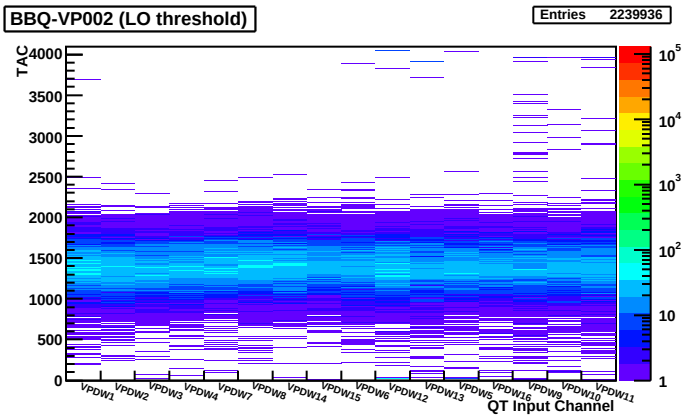

BBQ-ZD001 (ZDC TOWER)
Entries 2239936
ADC

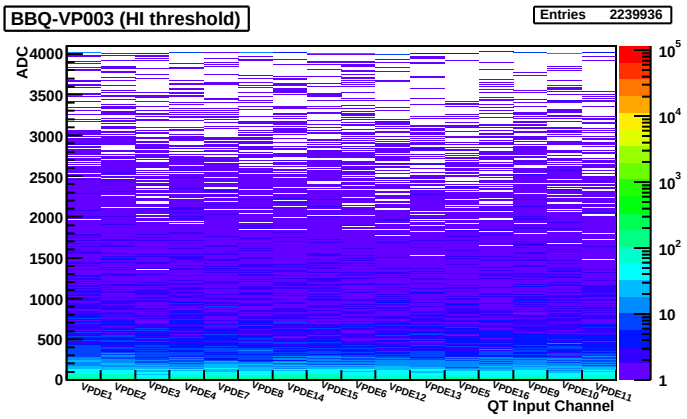

BBQ-ZD001 (ZDC TOWER)
Entries 2239936
TAC

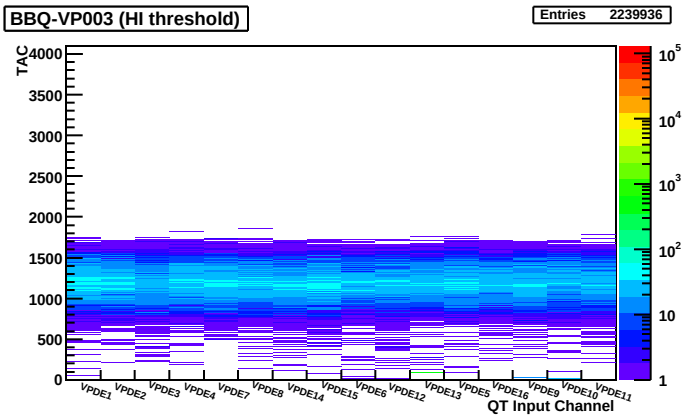

BBQ-VP001 (LO threshold)
Entries 2239936
ADC
QT Input Channel

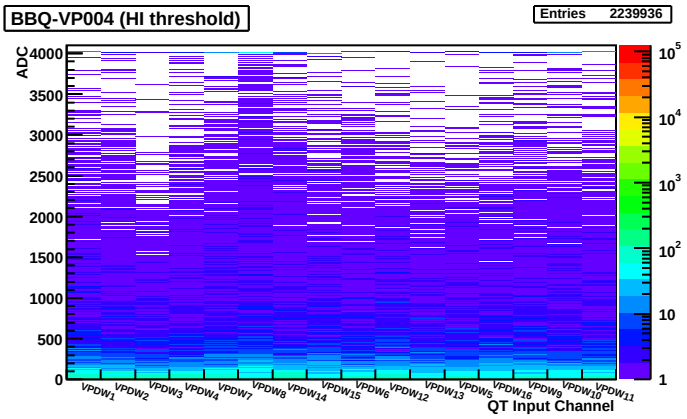

BBQ-VP001 (LO threshold)
Entries 2239936
TAC
QT Input Channel

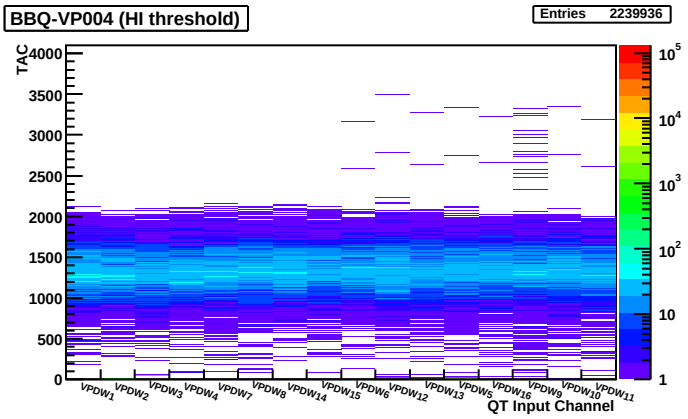

BBQ-VP002 (LO threshold)
Entries 2239936
ADC
QT Input Channel

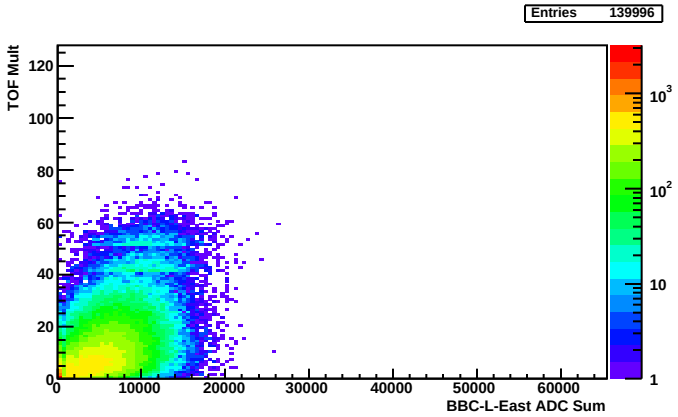

BBQ-VP002 (LO threshold)
Entries 2239936
TAC
QT Input Channel

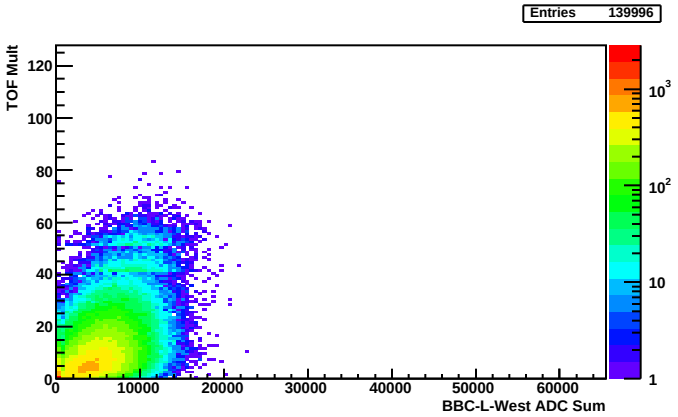

BBQ-VP003 (HI threshold)
Entries 2239936
ADC
QT Input Channel

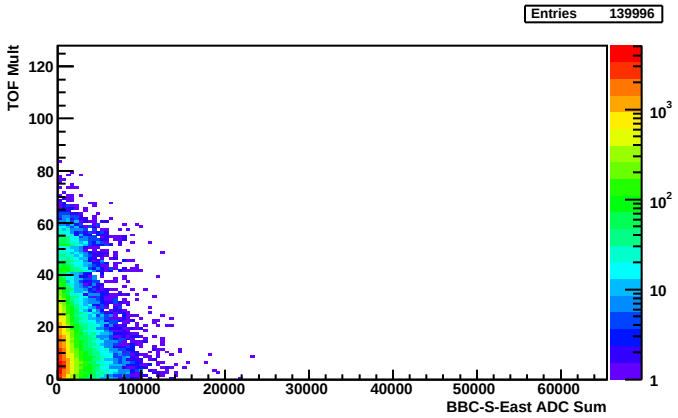

BBQ-VP003 (HI threshold)
Entries 2239936
TAC
QT Input Channel

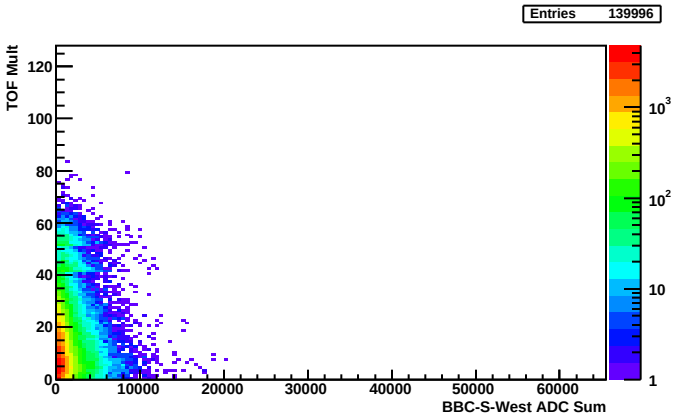

BBQ-VP004 (HI threshold)
Entries 2239936
ADC
QT Input Channel

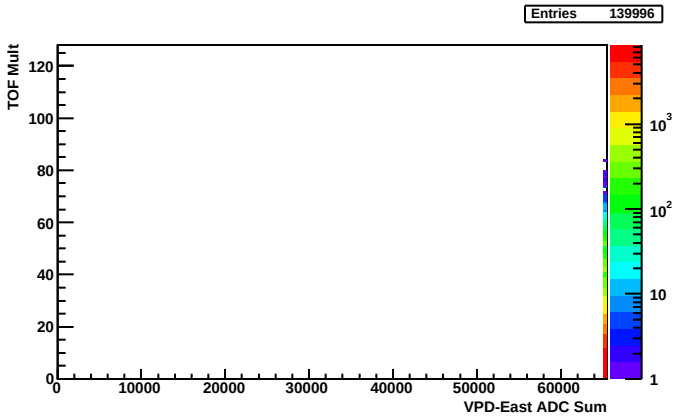

BBQ-VP004 (HI threshold)
Entries 2239936
TAC
QT Input Channel

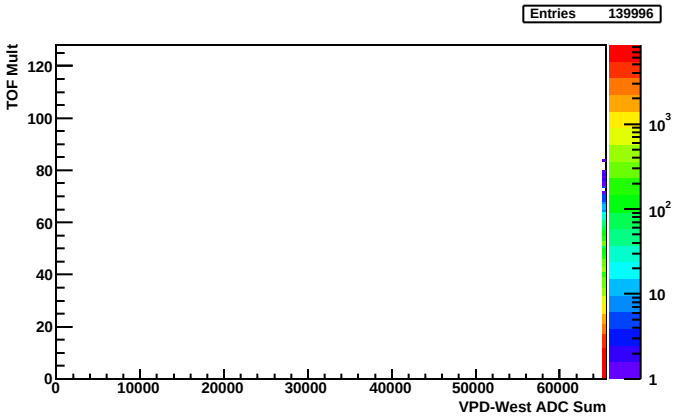

Entries 139996
TOF Mult
BBC-L-East ADC Sum

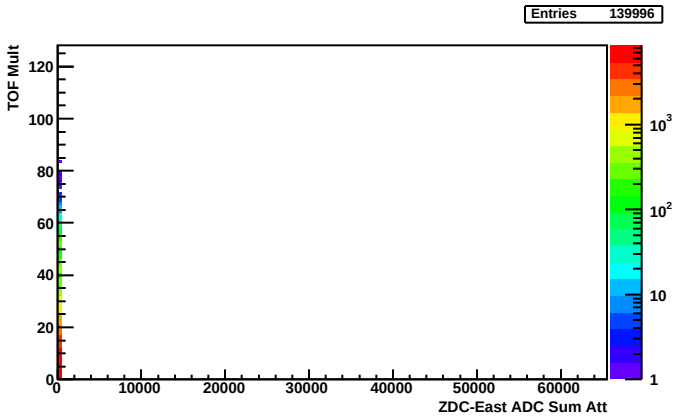

Entries 139996
TOF Mult
BBC-L-West ADC Sum

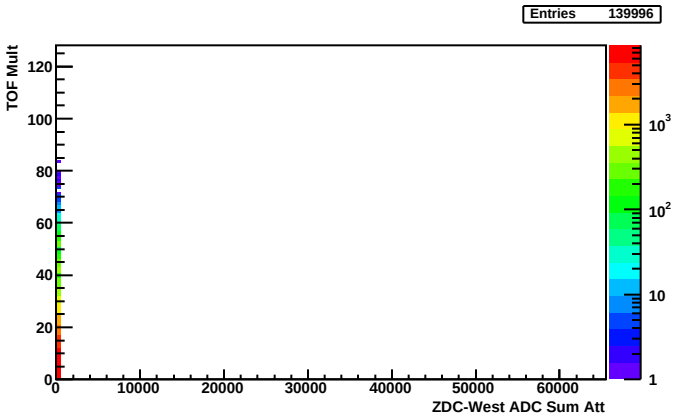

Entries 139996
TOF Mult
BBC-S-East ADC Sum

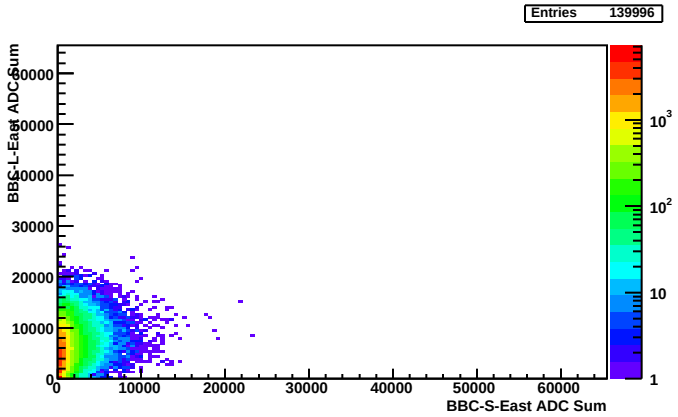

Entries 139996
TOF Mult
BBC-S-West ADC Sum

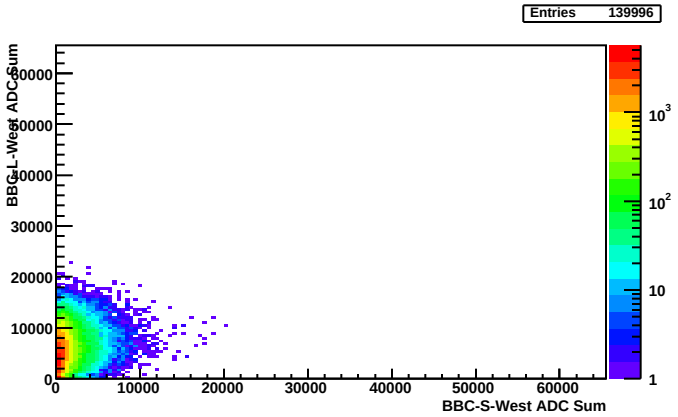

Entries 139996
TOF Mult
VPD-East ADC Sum

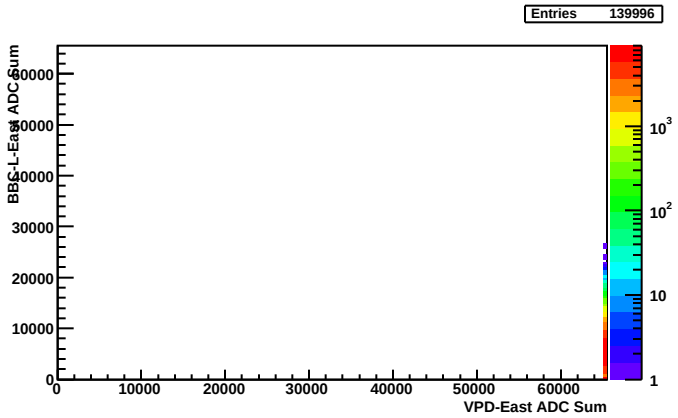

Entries 139996
TOF Mult
VPD-West ADC Sum

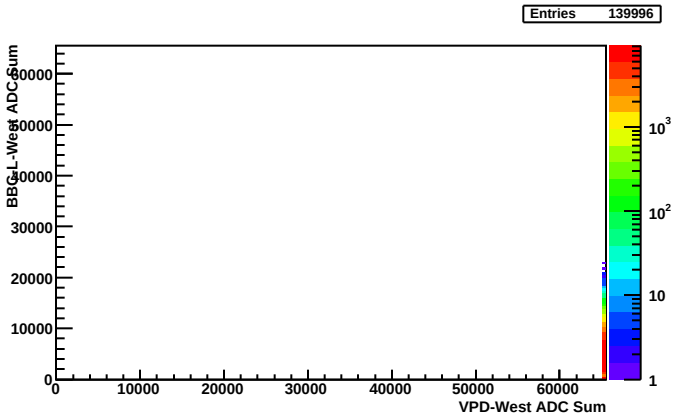

Entries 139996
TOF Mult
ZDC-East ADC Sum Att

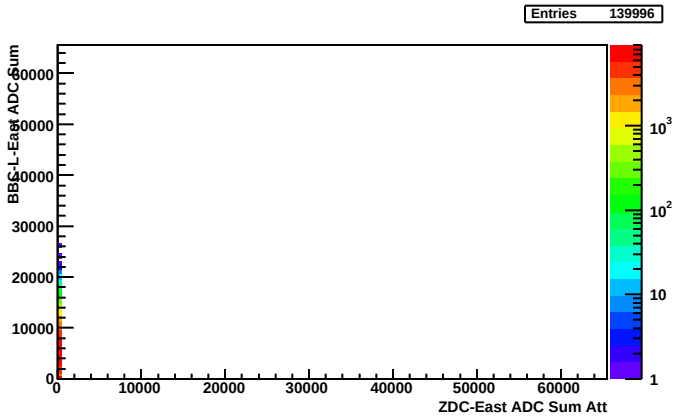

Entries 139996
TOF Mult
ZDC-West ADC Sum Att

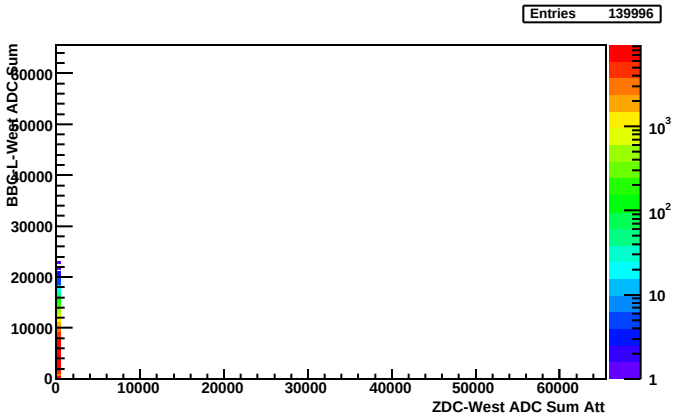

Entries 139996
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 139996
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 139996
BBC-L-East ADC Sum
VPD-East ADC Sum


Entries 139996
BBC-L-West ADC Sum
VPD-West ADC Sum


Entries 139996
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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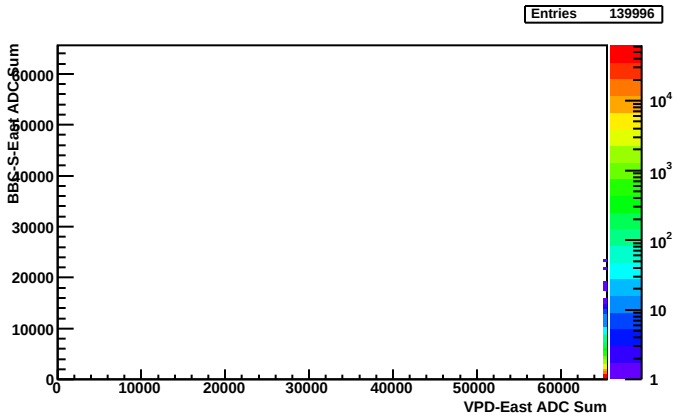
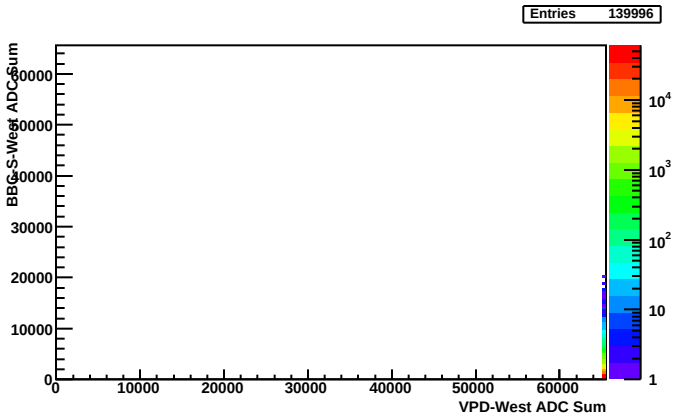
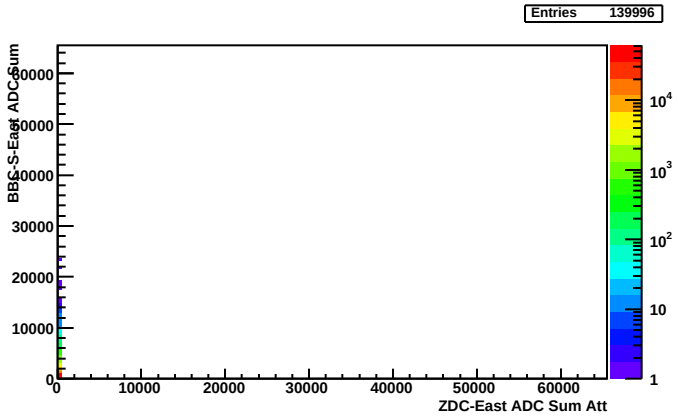
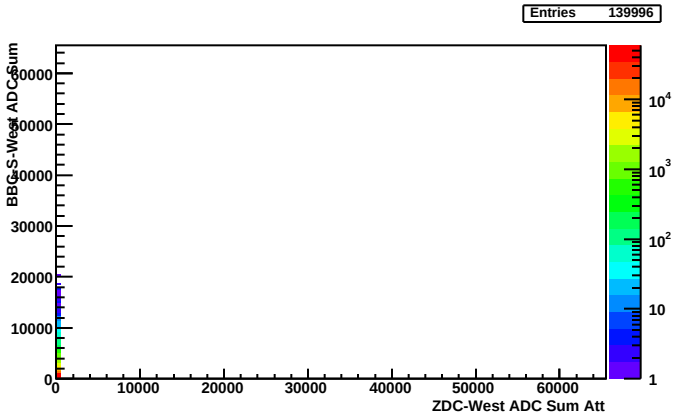
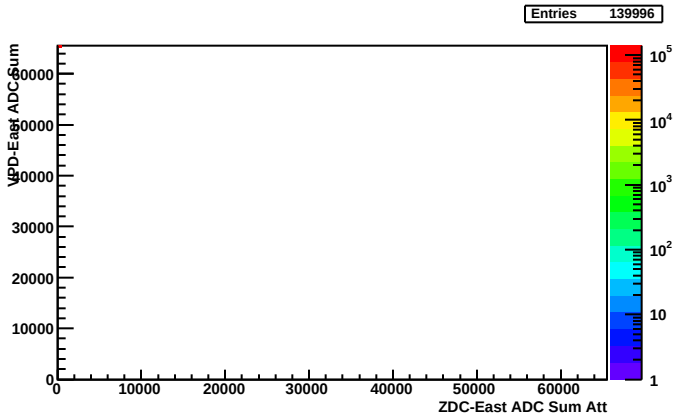
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

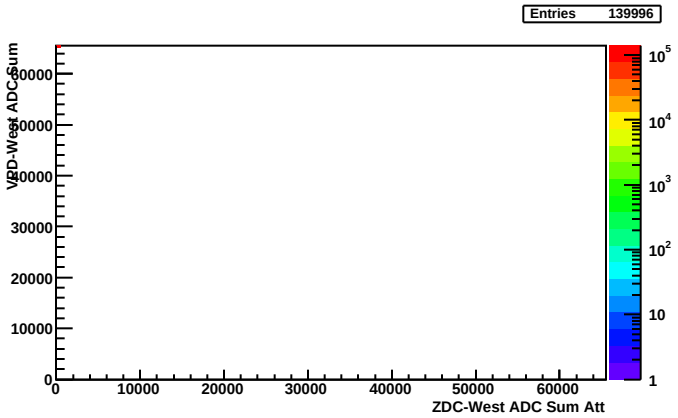

Entries 139996
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 139996
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 139996
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 139996
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 139996
VPD-East ADC Sum
ZDC-East ADC Sum Att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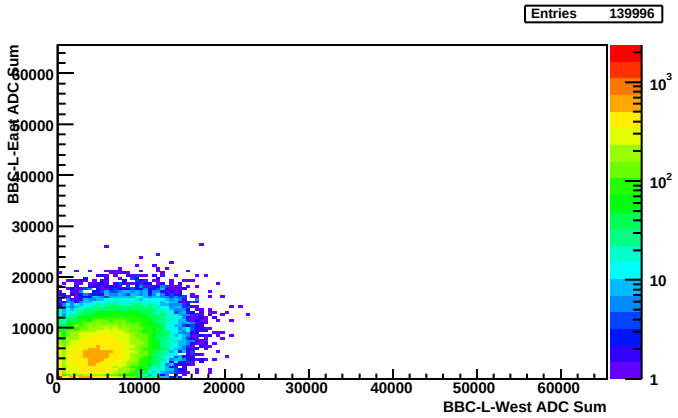
VPD-West ADC Sum
ZDC-West ADC Sum Att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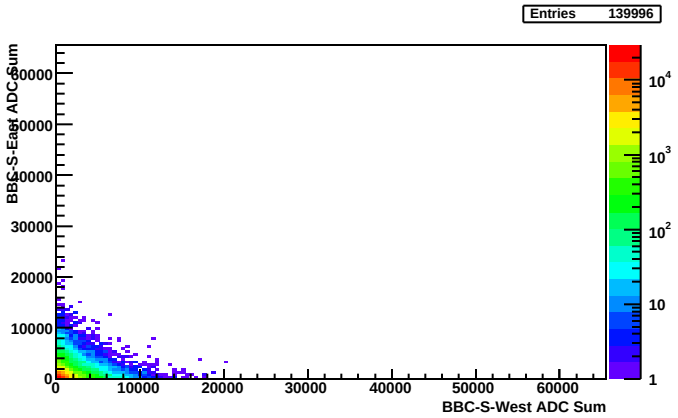
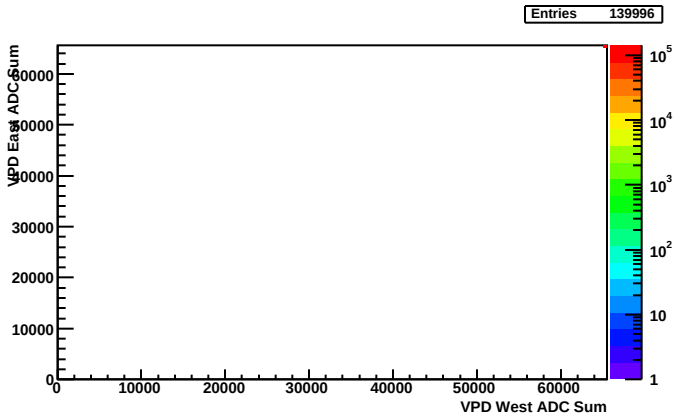
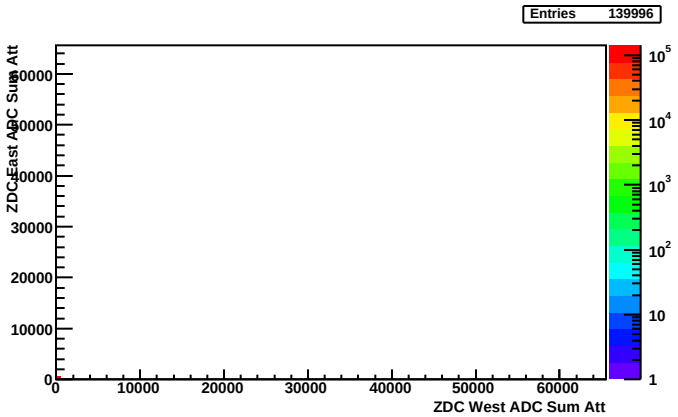
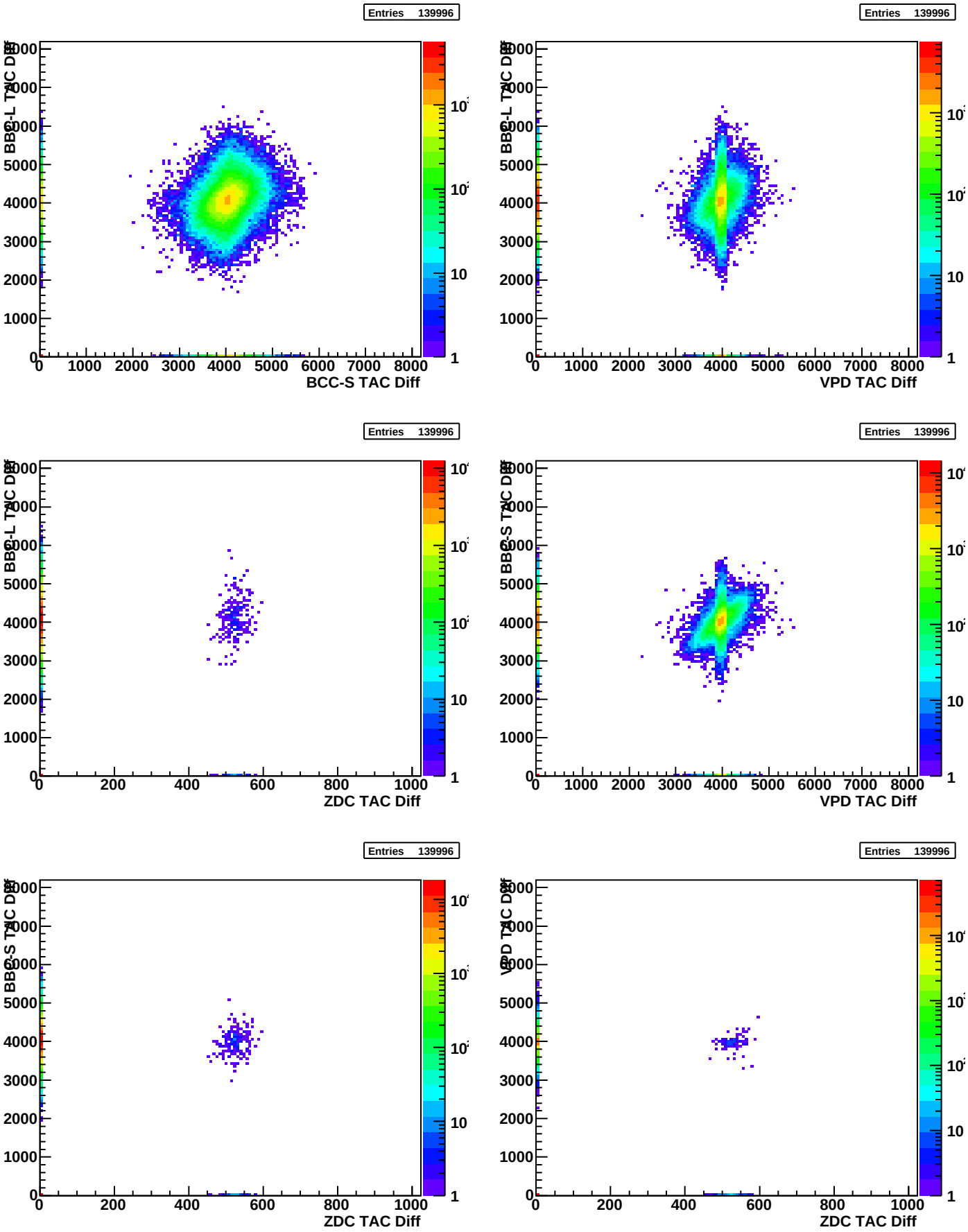
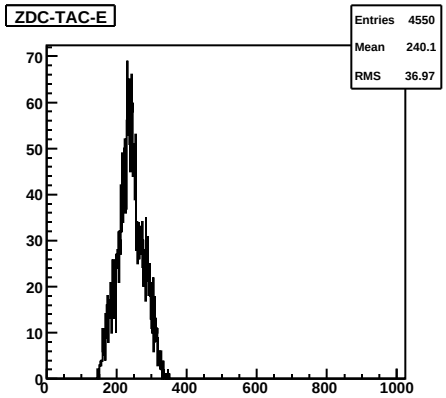
BBC-L-East ADC Sum
BBC-L-West ADC Sum

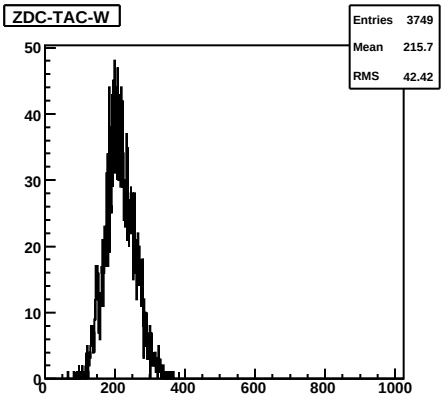

Entries 139996
BBC-S-East ADC Sum
BBC-S-West ADC Sum

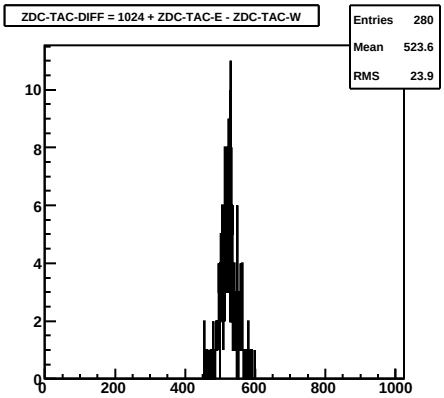

Entries 139996
VPD East ADC Sum
VPD West ADC Sum

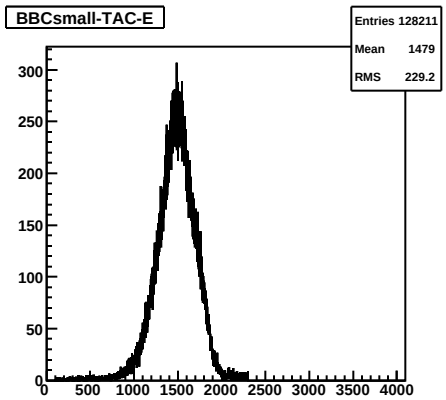

Entries 139996
ZDC East ADC Sum Att
ZDC West ADC Sum Att

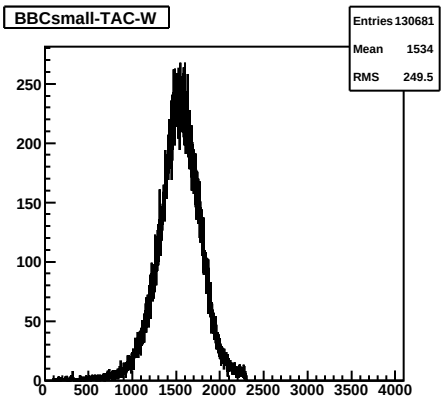

Entries 139996
BBC-L TAC Diff
BCC-S TAC Diff
Entries 139996
BBC-L TAC Diff
VPD TAC Diff
Entries 139996
BBC-L TAC Diff
ZDC TAC Diff
Entries 139996
BBC-S TAC Diff
VPD TAC Diff
Entries 139996
BBC-S TAC Diff
ZDC TAC Diff
Entries 139996
VPD TAC Diff
ZDC TAC Diff

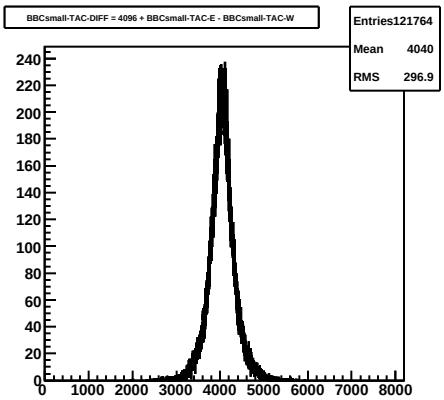

ZDC-TAC-E
Entries 4550
Mean 240.1
RMS 36.97

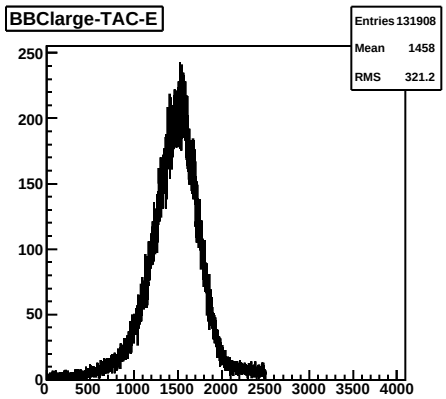

ZDC-TAC-W
Entries 3749
Mean 215.7
RMS 42.42

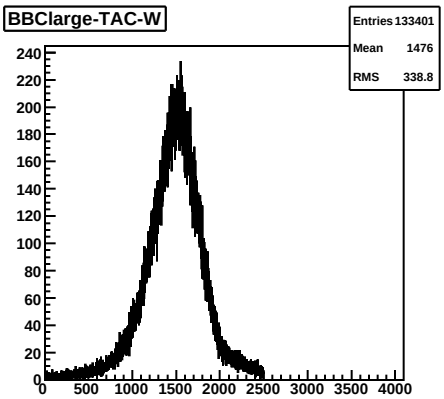

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 280
Mean 523.6
RMS 23.9

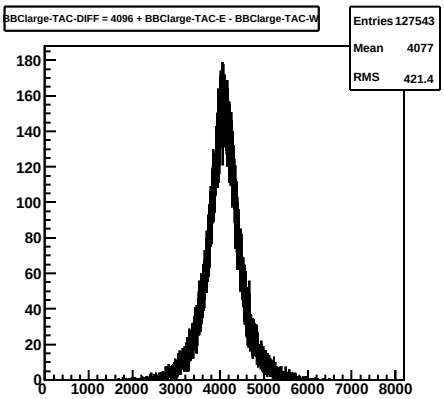

BBCsmall-TAC-E
Entries 128211
Mean 1479
RMS 229.2

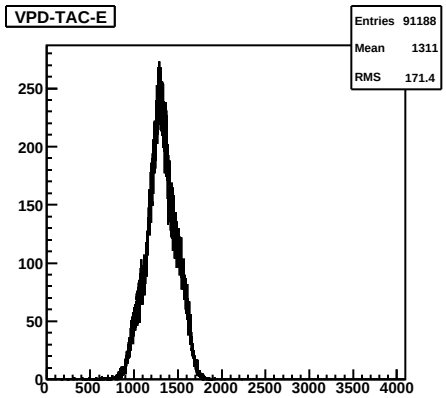

BBCsmall-TAC-W
Entries 130681
Mean 1534
RMS 249.5

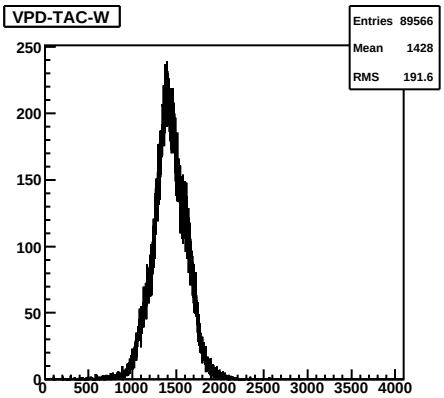

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 121764
Mean 4040
RMS 296.9

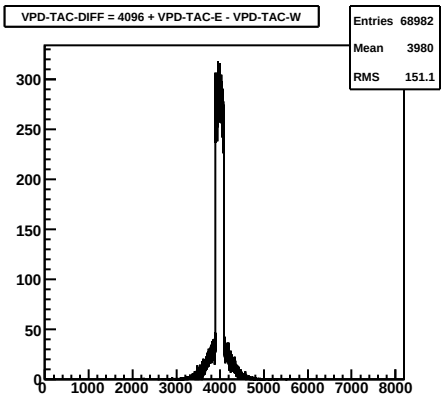

BBClarge-TAC-E
Entries 131908
Mean 1458
RMS 321.2

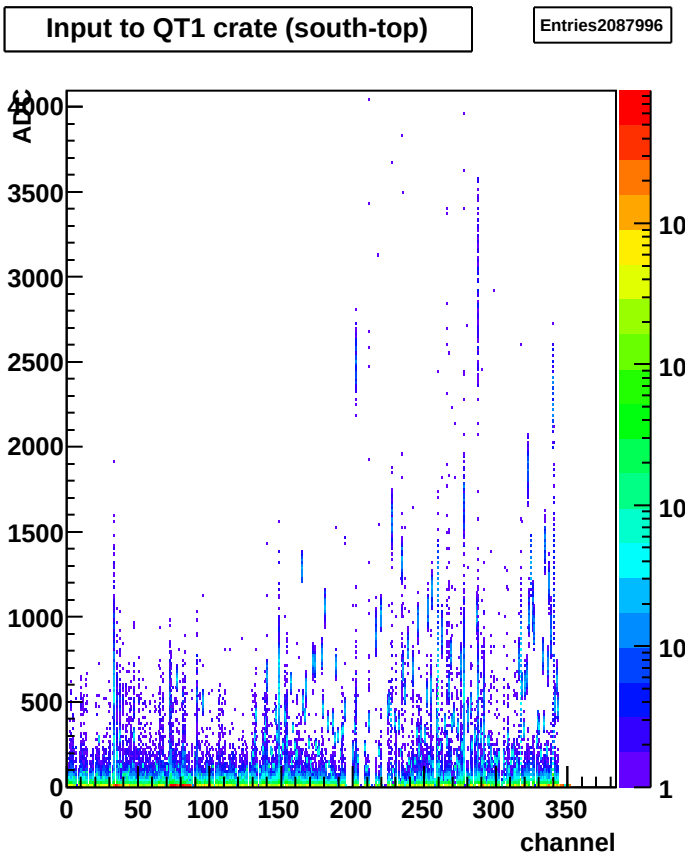

BBClarge-TAC-W
Entries 133401
Mean 1476
RMS 338.8

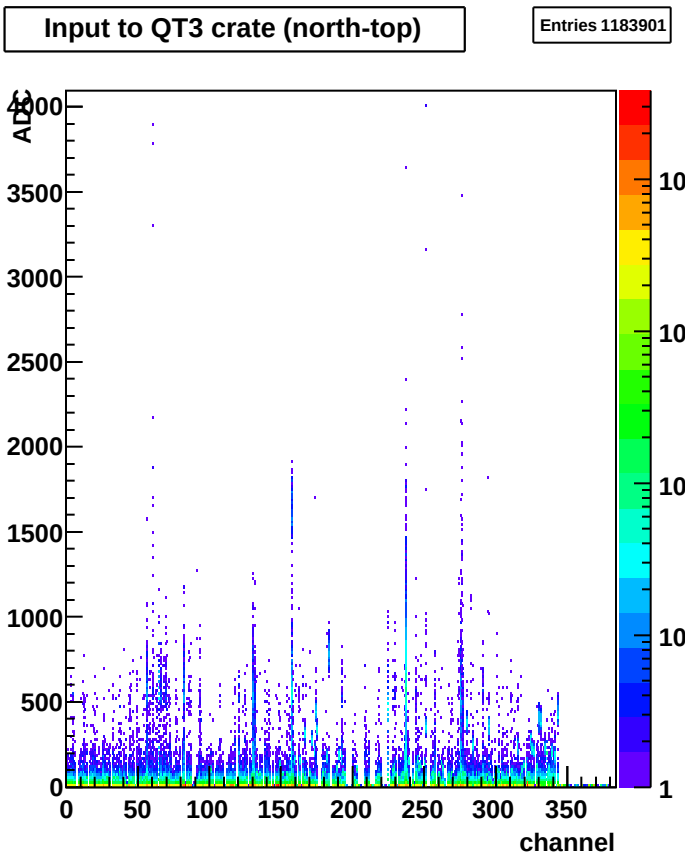

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 127543
Mean 4077
RMS 421.4

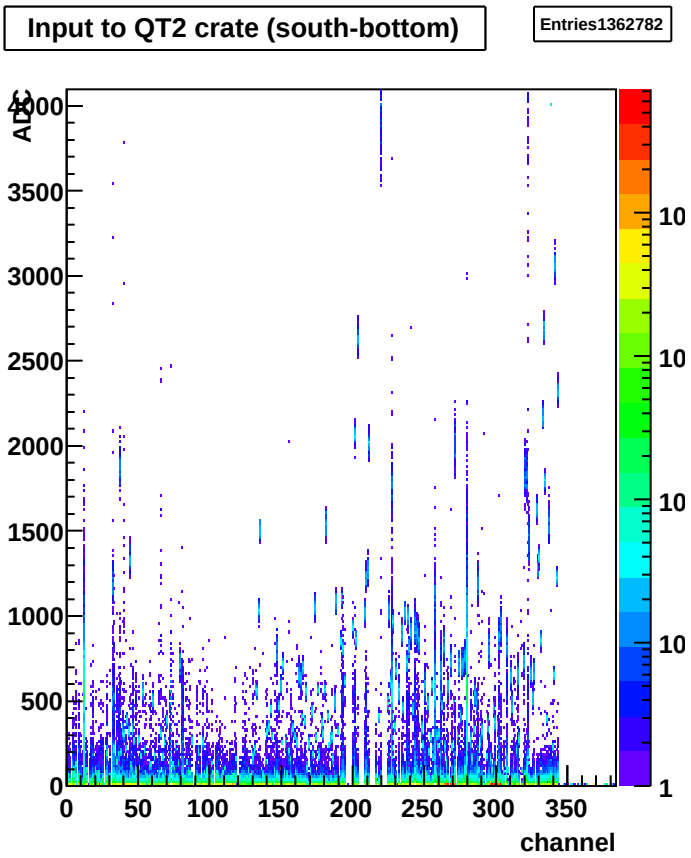

VPD-TAC-E
Entries 91188
Mean 1311
RMS 171.4

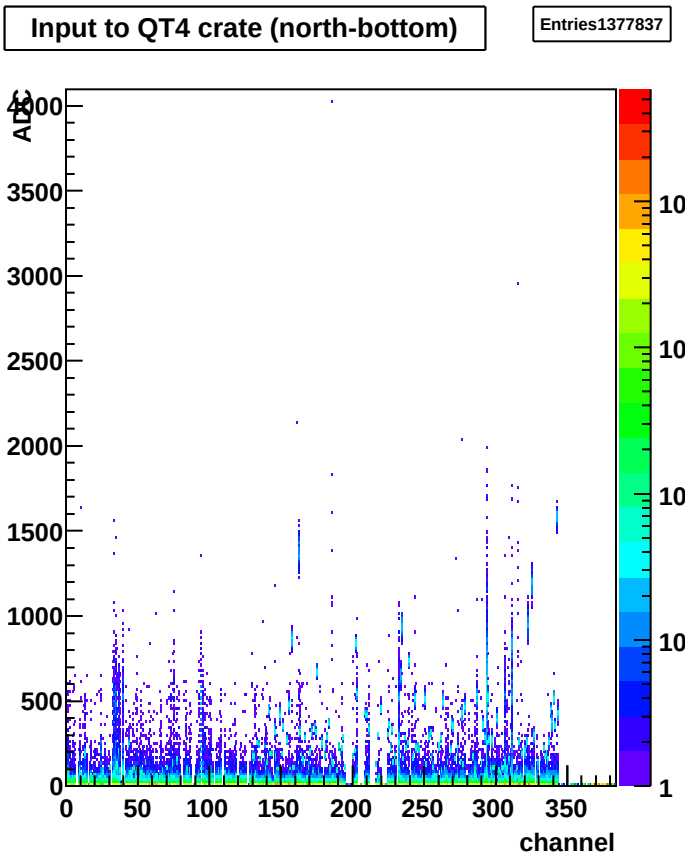

VPD-TAC-W
Entries 89566
Mean 1428
RMS 191.6

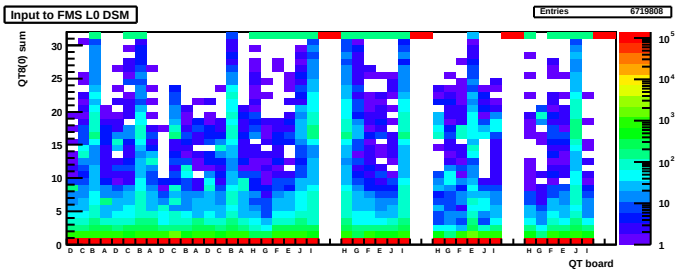

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 68982
Mean 3980
RMS 151.1

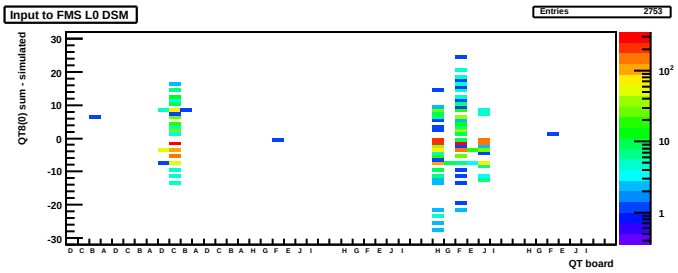

Input to QT1 crate (south-top)
Entries2087996
ADC
channel

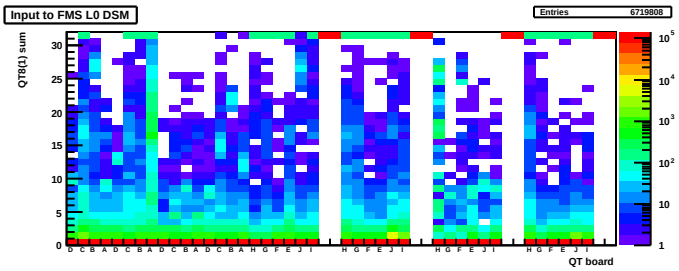

Input to QT3 crate (north-top)
Entries 1183901
ADC
channel

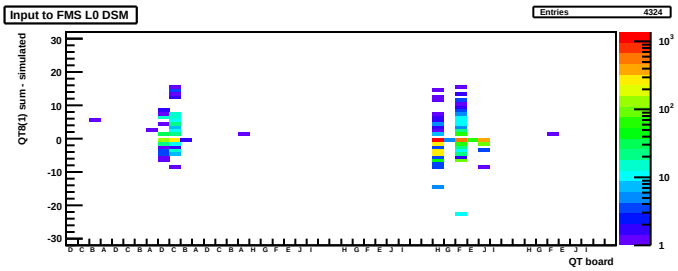

Input to QT2 crate (south-bottom)
Entries1362782
ADC
channel

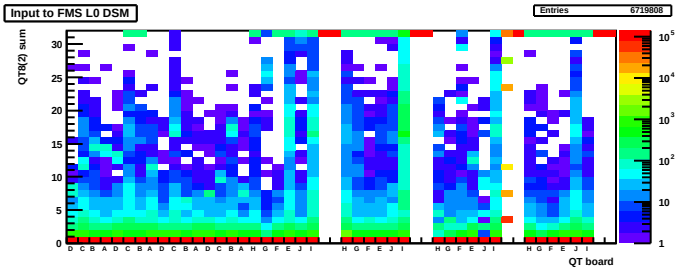

Input to QT4 crate (north-bottom)
Entries1377837
ADC
channel

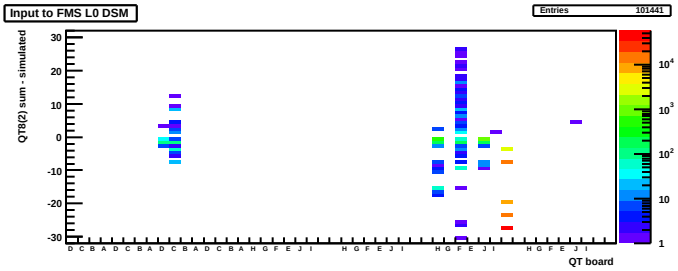

Input to FMS L0 DSM
Entries 6719808
QT8(0) sum
QT board

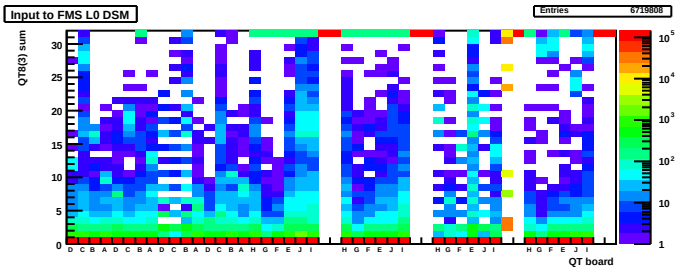

Input to FMS L0 DSM
Entries 2753
QT8(0) sum - simulated
QT board

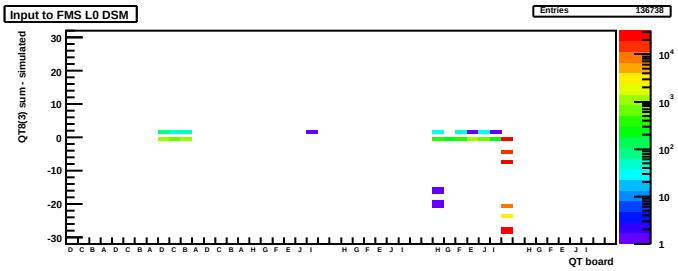

Input to FMS L0 DSM
Entries 6719808
QT8(1) sum
QT board

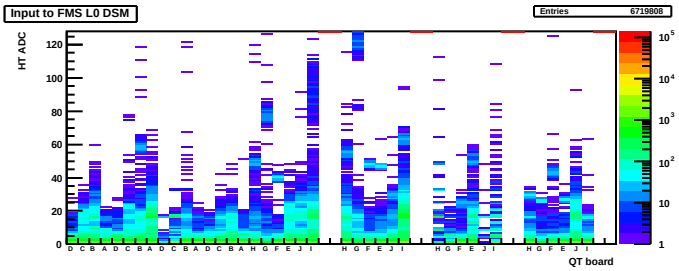

Input to FMS L0 DSM
Entries 4324
QT8(1) sum - simulated
QT board

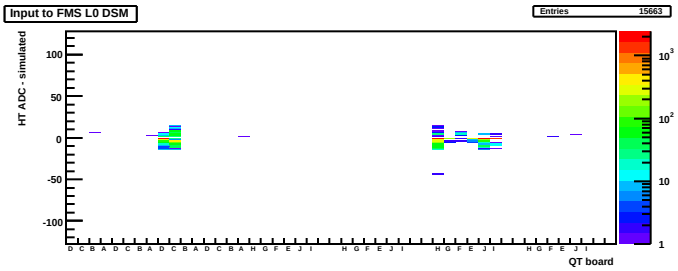

Input to FMS L0 DSM
Entries 6719808
QT8(2) sum
QT board

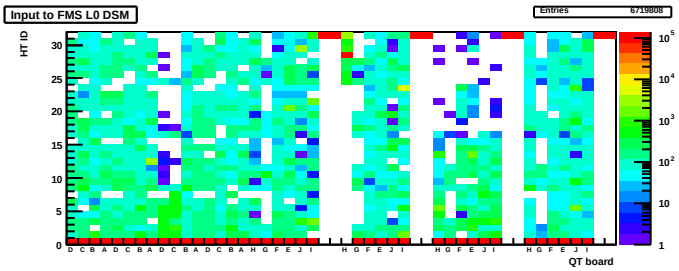

Input to FMS L0 DSM
Entries 101441
QT8(2) sum - simulated
QT board

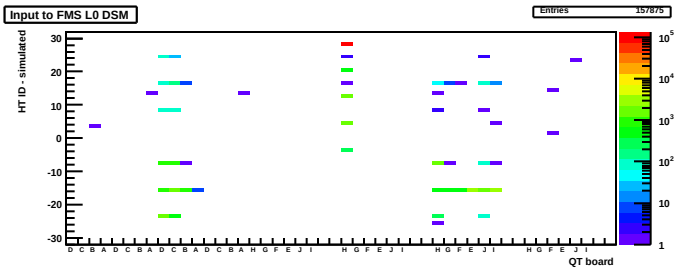

Input to FMS L0 DSM
Entries 6719808
QT8(3) sum
QT board

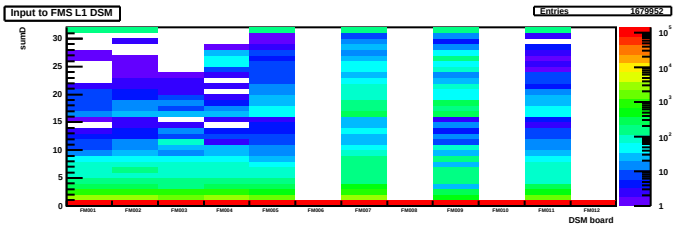

Input to FMS L0 DSM
Entries 136738
QT8(3) sum - simulated
QT board

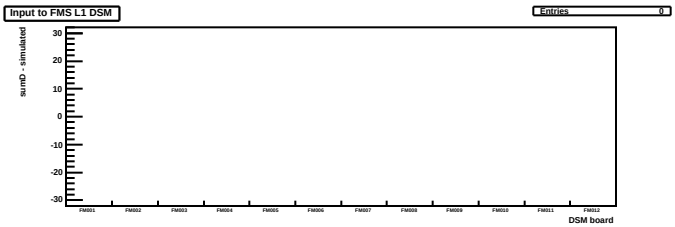

Input to FMS L0 DSM
Entries 6719808
HT ADC
QT board

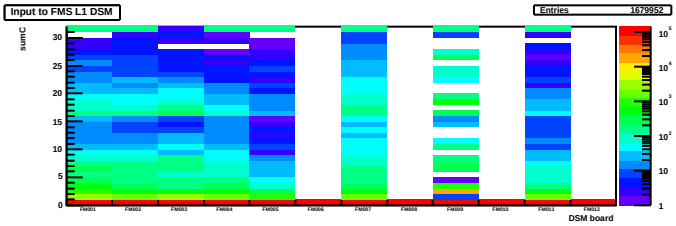

Input to FMS L0 DSM
Entries 15663
HT ADC - simulated
QT board

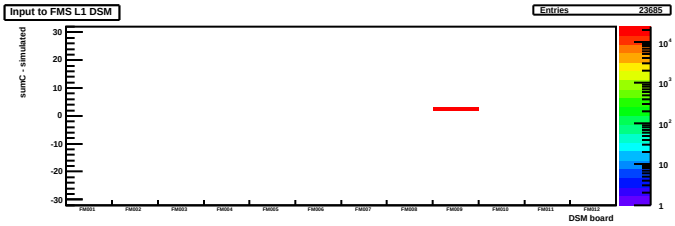

Input to FMS L0 DSM
Entries 6719808
HT ID
QT board

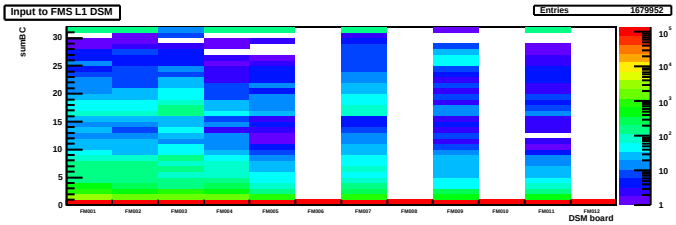

Input to FMS L0 DSM
Entries 157875
HT ID - simulated
QT board

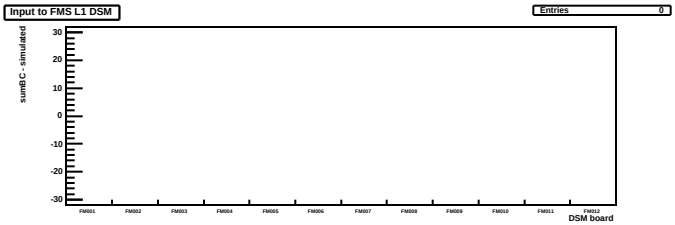

Input to FMS L1 DSM
Entries 1679952
sumD
DSM board

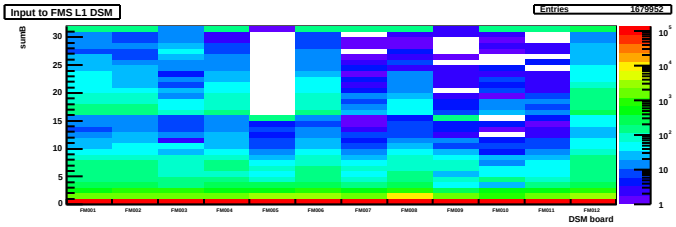

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

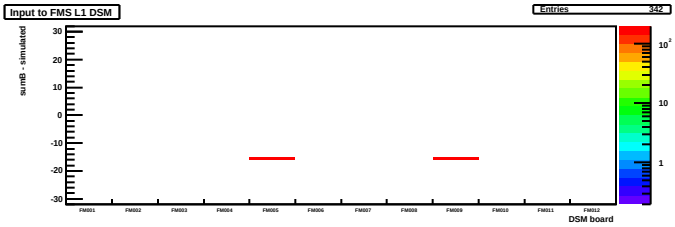

Input to FMS L1 DSM
Entries 1679952
sumC
DSM board

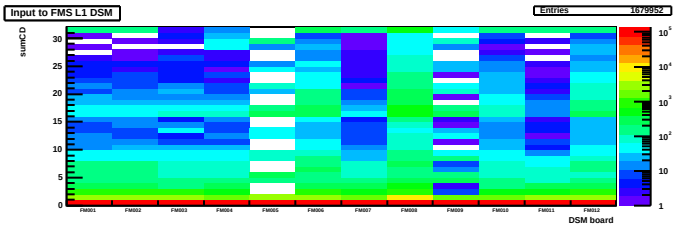

Input to FMS L1 DSM
Entries 23685
sumC - simulated
DSM board

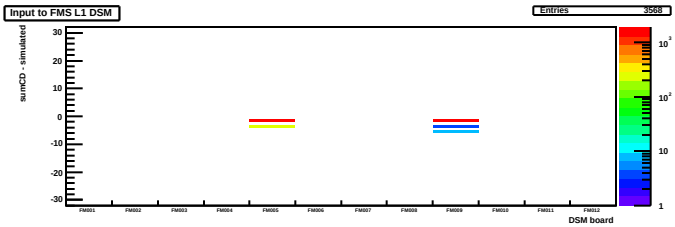

Input to FMS L1 DSM
Entries 1679952
sumBC
DSM board

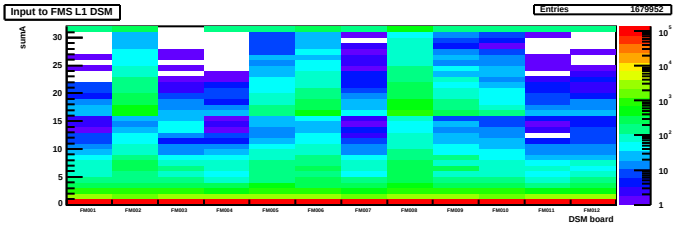

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

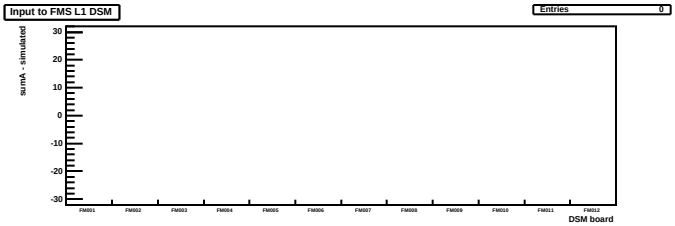

Input to FMS L1 DSM
Entries 1679952
sumB
DSM board

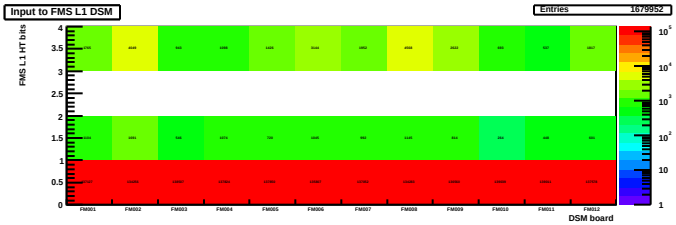

Input to FMS L1 DSM
Entries 342
sumB - simulated
DSM board

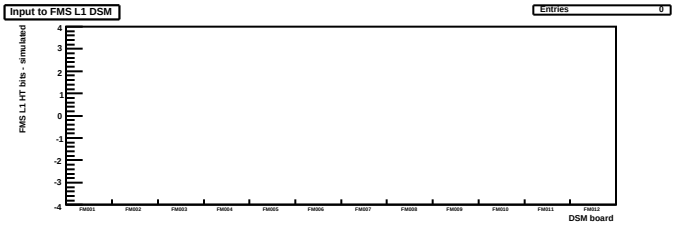

Input to FMS L1 DSM
Entries 1679952
sumCD
DSM board

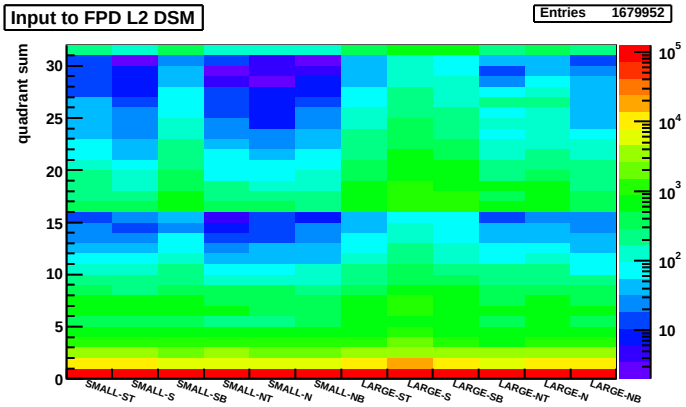

Input to FMS L1 DSM
Entries 3568
sumCD - simulated
DSM board

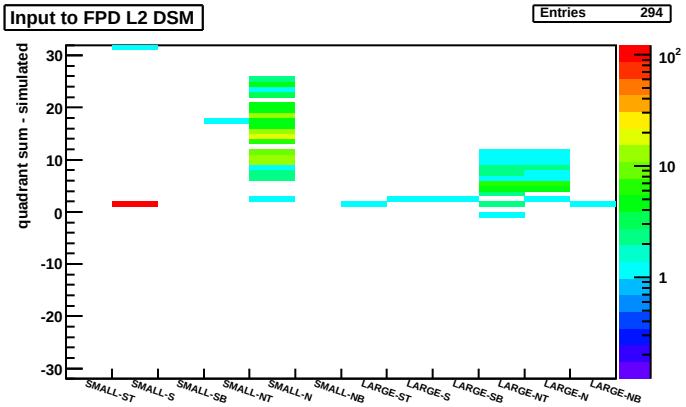

Input to FMS L1 DSM
Entries 1679952
sumA
DSM board

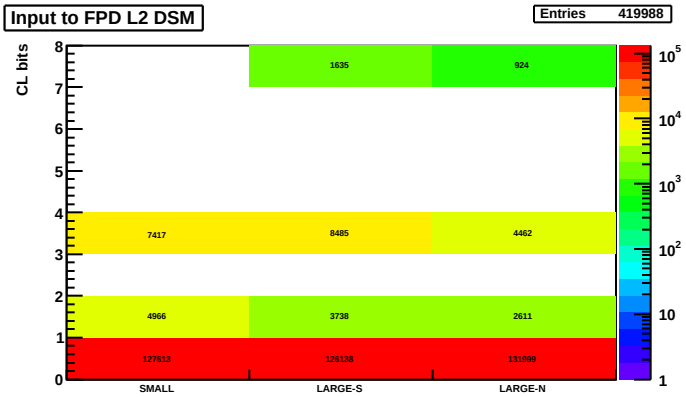

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

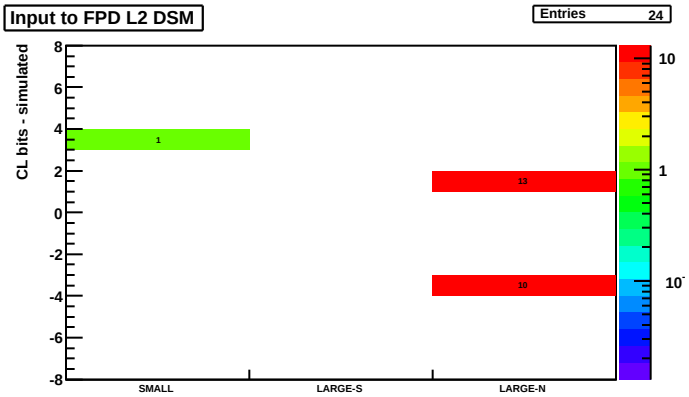

Input to FMS L1 DSM
Entries 1679952
FMS L1 HT bits
DSM board

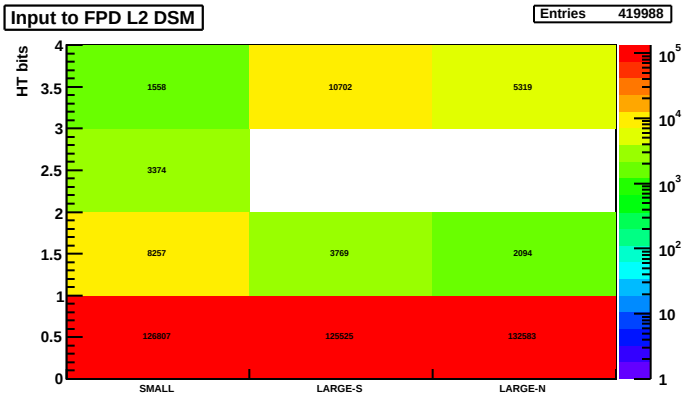

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

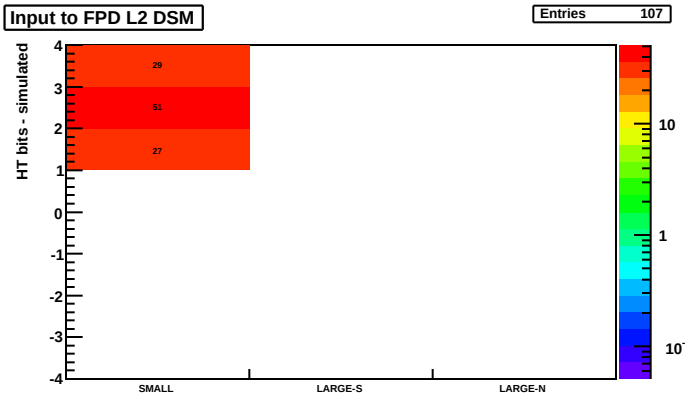

Input to FPD L2 DSM
Entries 1679952
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

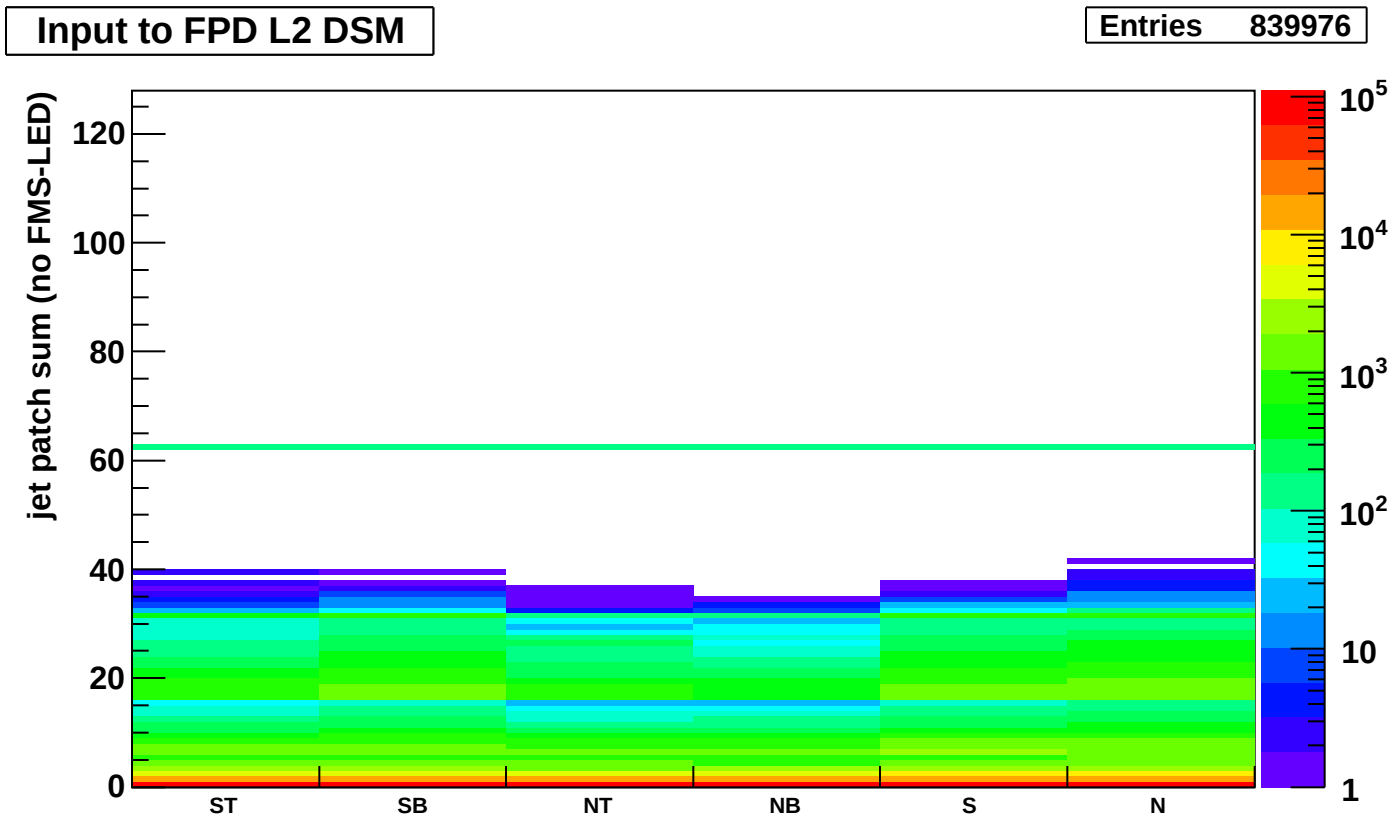

Input to FPD L2 DSM
Entries 294
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

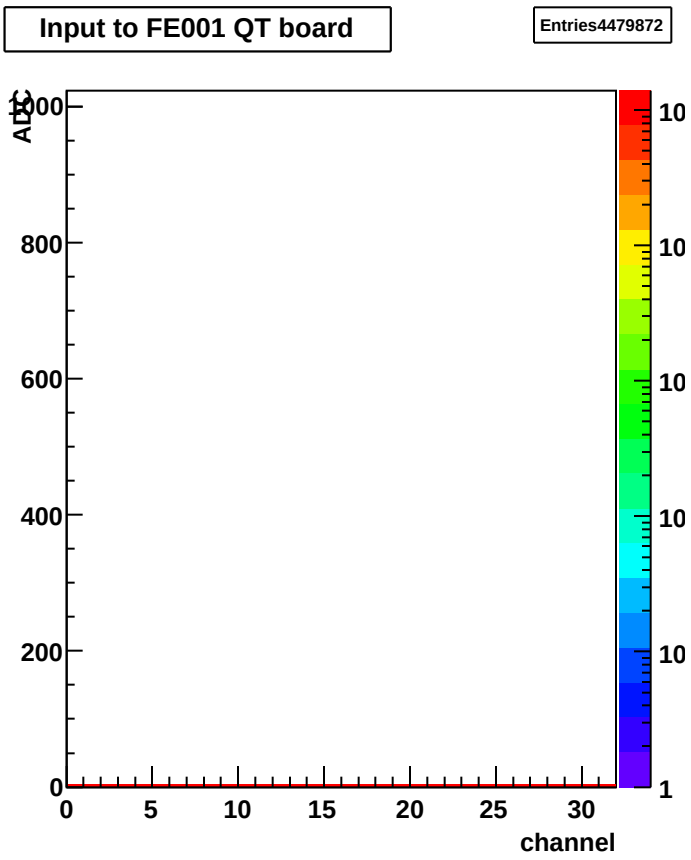

Input to FPD L2 DSM
Entries 419988
CL bits
1635
924
7417
8485
4462
4966
3738
2611
127613
126138
131999
SMALL
LARGE-S
LARGE-N

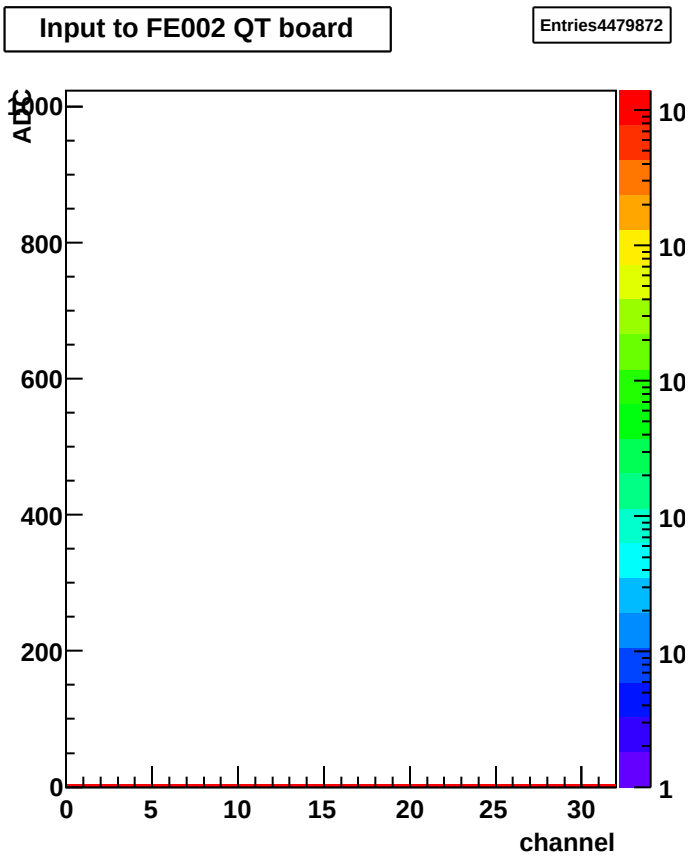

Input to FPD L2 DSM
Entries 24
CL bits - simulated
1
13
10
SMALL
LARGE-S
LARGE-N

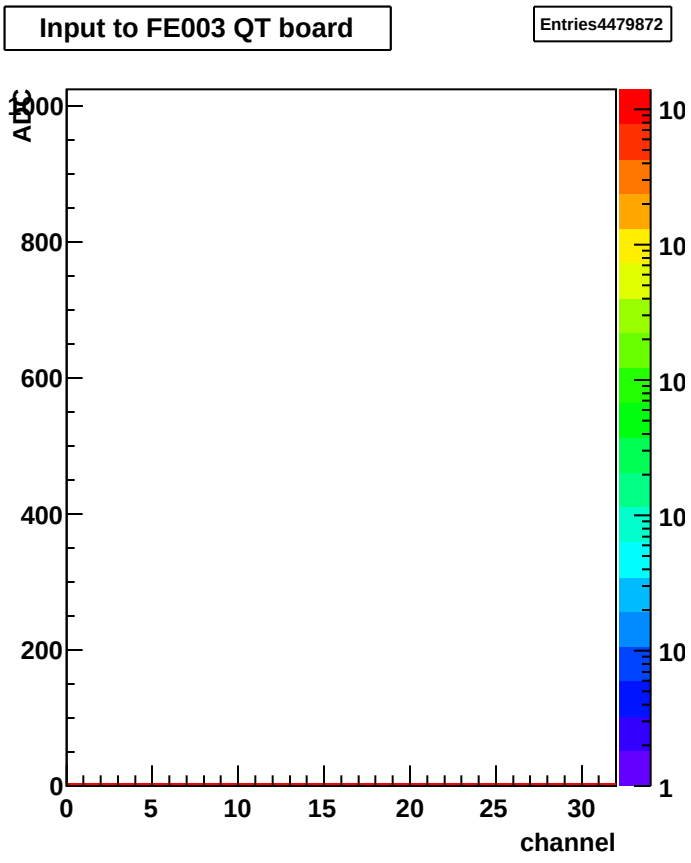

Input to FPD L2 DSM
Entries 419988
HT bits
1558
10702
5319
3374
8257
3769
2094
126807
125525
132583
SMALL
LARGE-S
LARGE-N

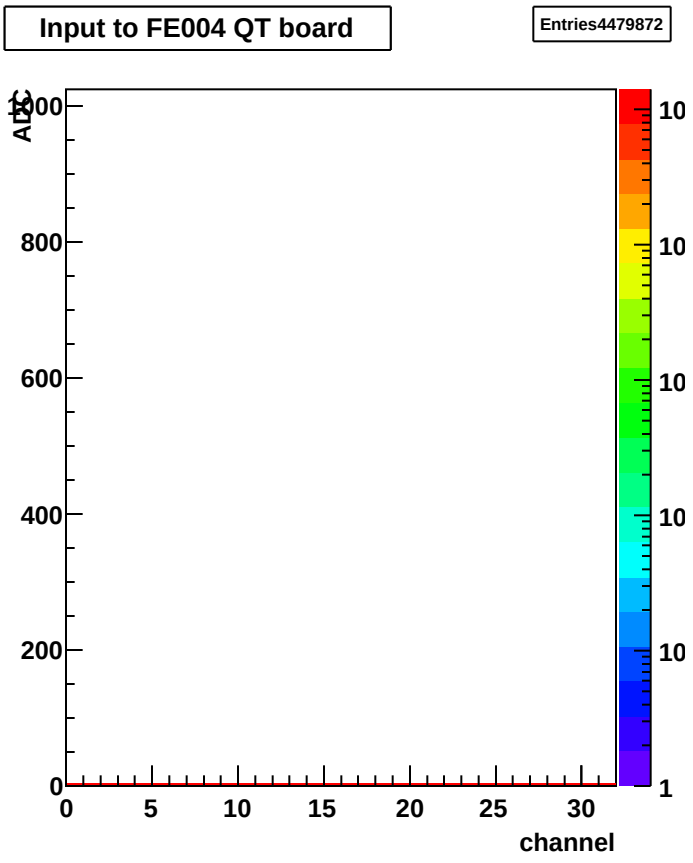

Input to FPD L2 DSM
Entries 107
HT bits - simulated
29
51
27
SMALL
LARGE-S
LARGE-N

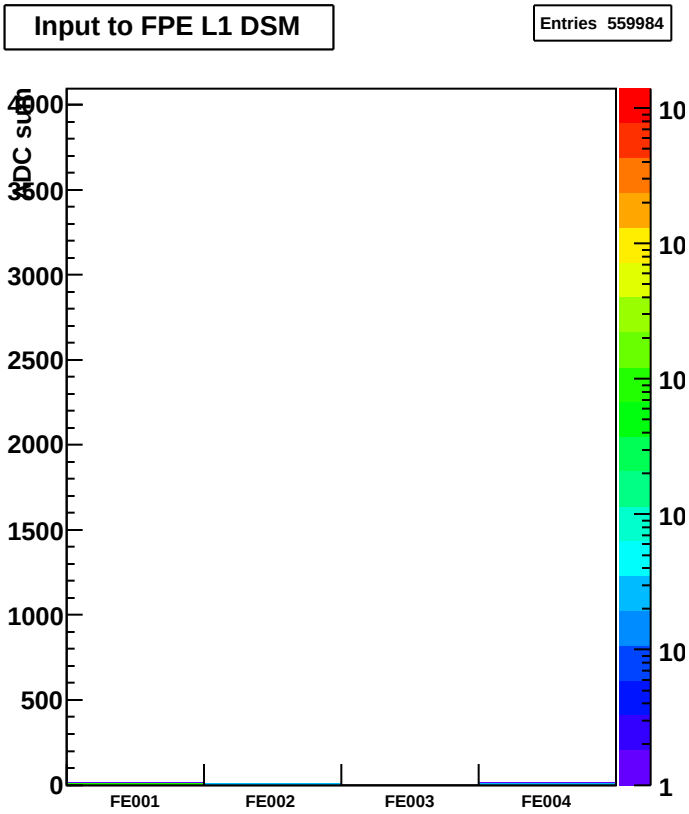

Input to FPD L2 DSM
Entries 839976
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

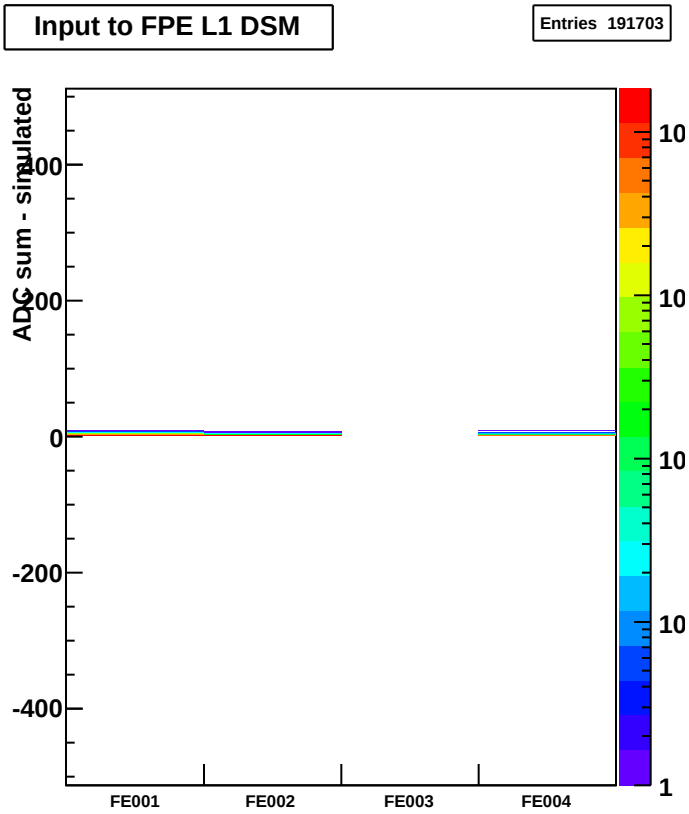

Input to FE001 QT board
Entries4479872
ADC
channel

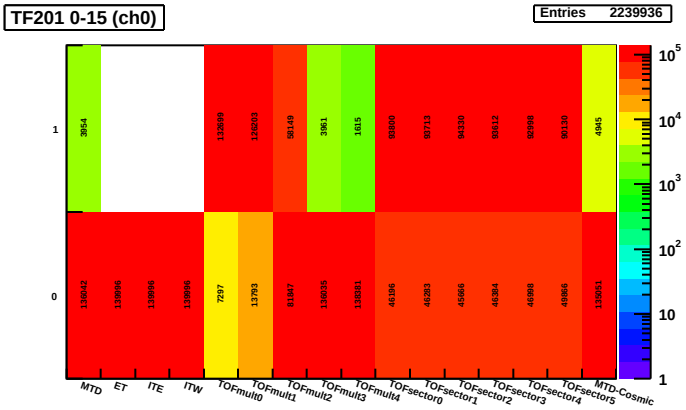

Input to FE002 QT board
Entries4479872
ADC
channel

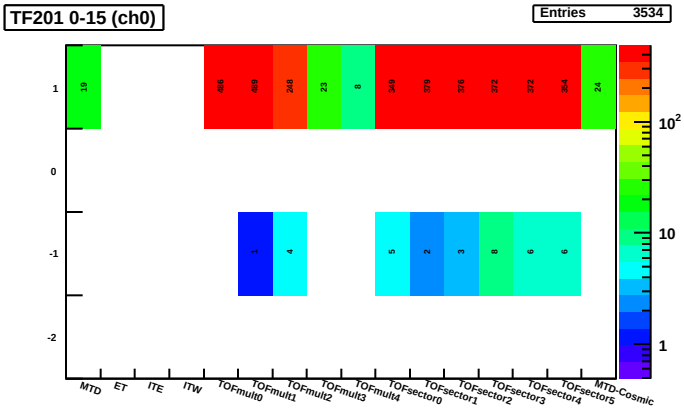

Input to FE003 QT board
Entries4479872
ADC
channel

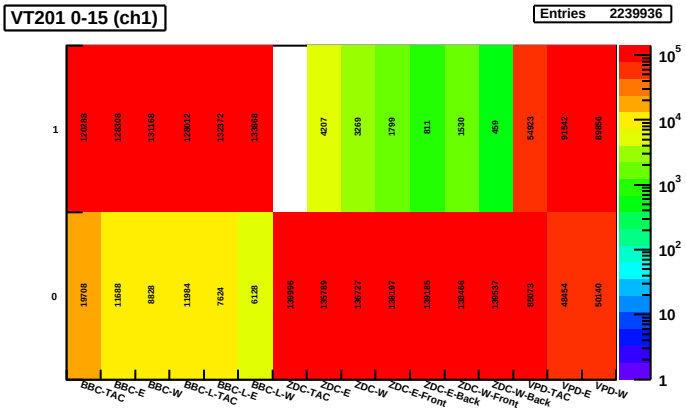

Input to FE004 QT board
Entries4479872
ADC
channel

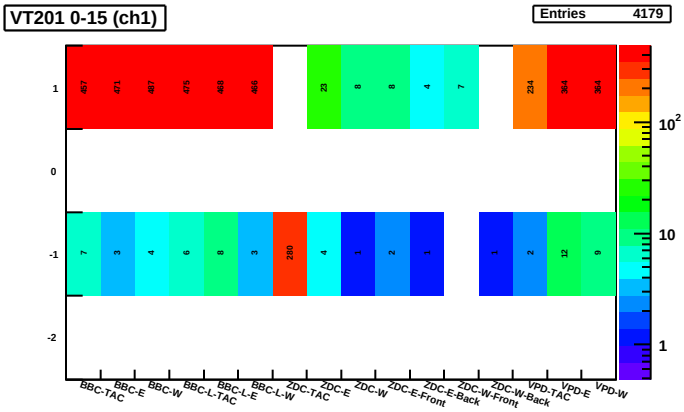

Input to FPE L1 DSM
Entries 559984
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

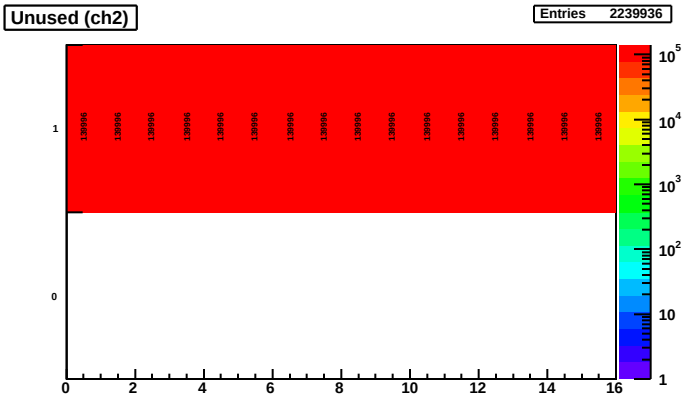

Input to FPE L1 DSM
Entries 191703
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
10
1

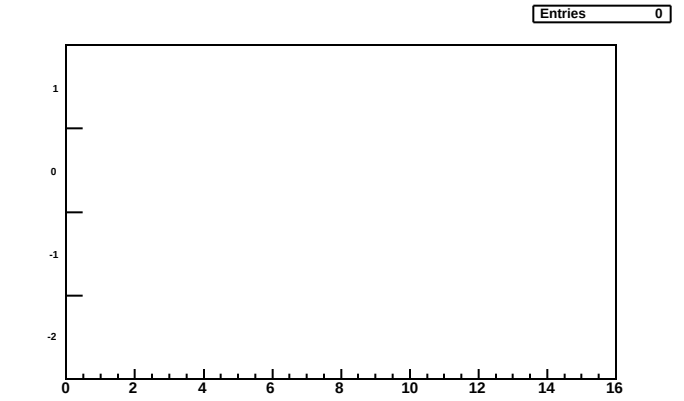

TF201 0-15 (ch0)
Entries 2239936
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

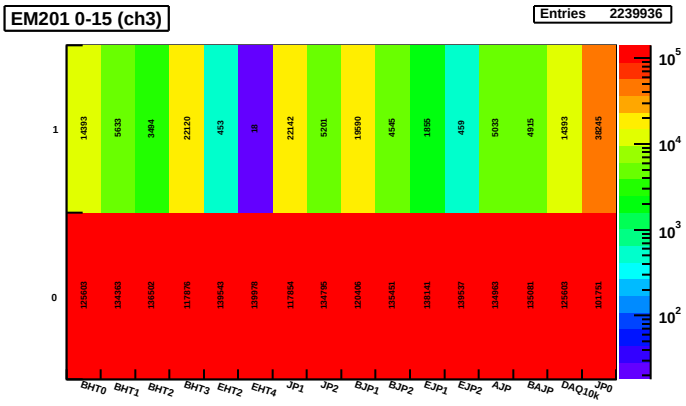

TF201 0-15 (ch0)
Entries 3534
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 2239936
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 4179
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 2239936


Entries 0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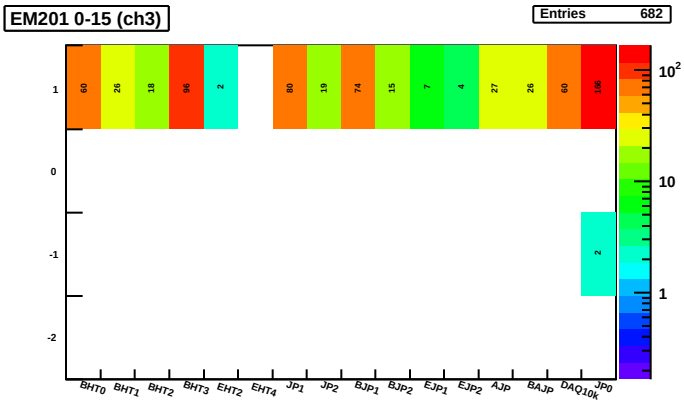
EM201 0-15 (ch3)
Entries 682
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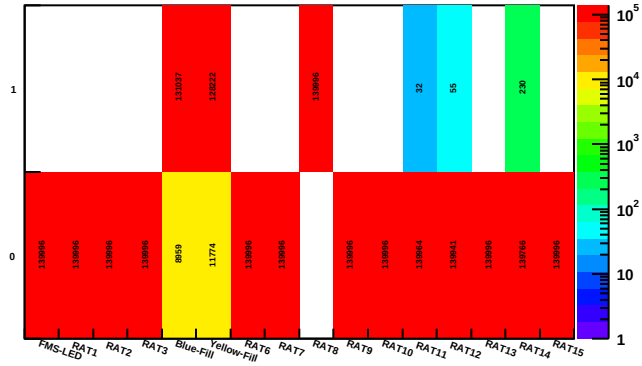
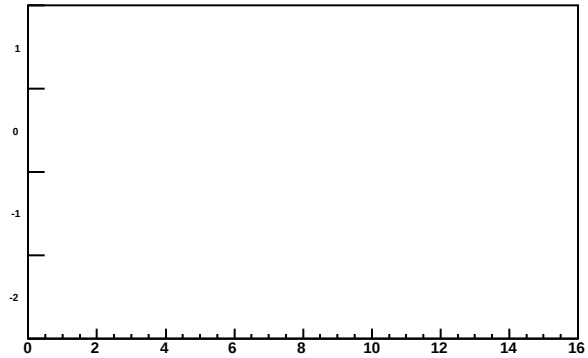
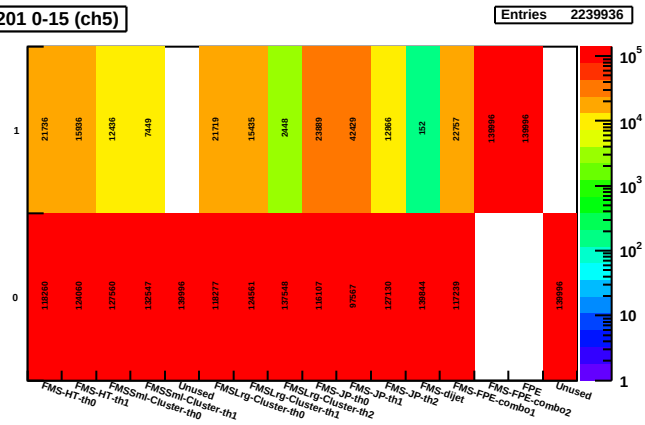
RAT board (ch4)





FP201 0-15 (ch5)



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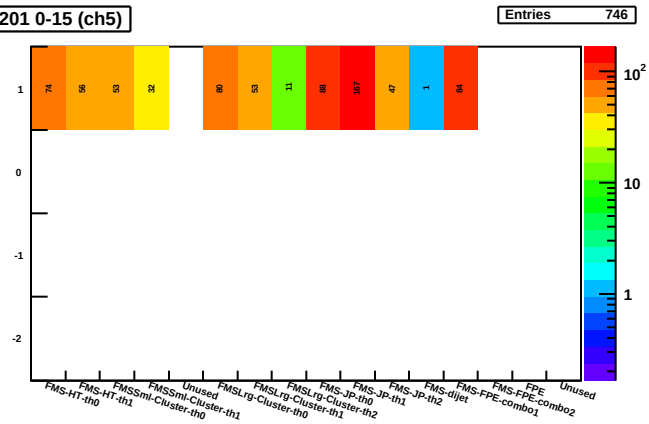
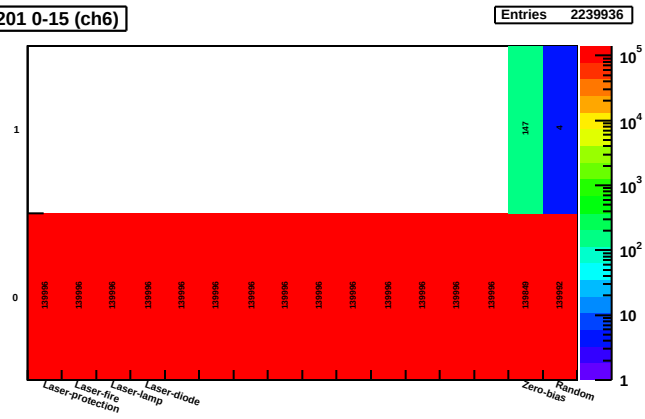
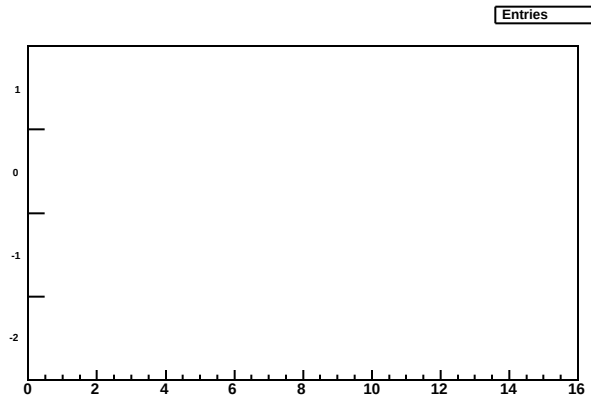
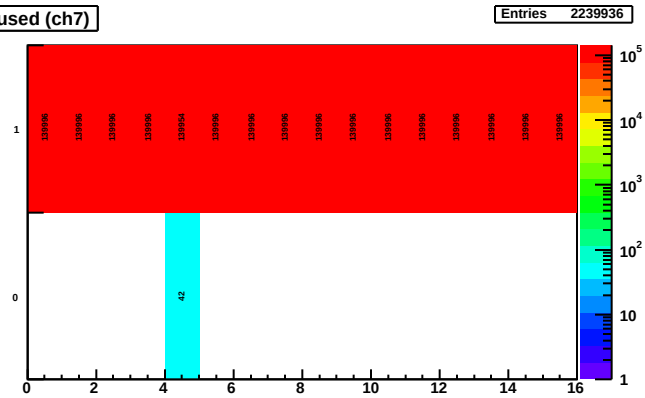
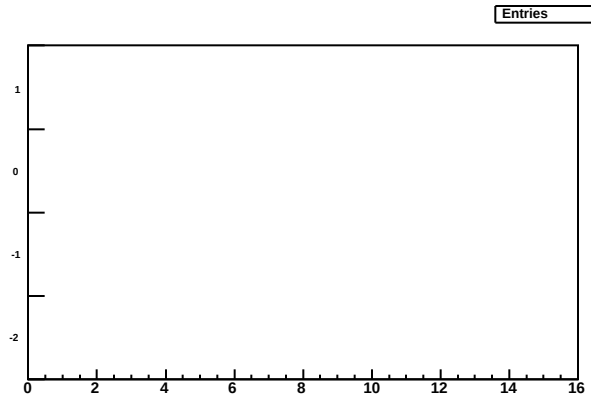


ST201 0-15 (ch6)





Unused (ch7)