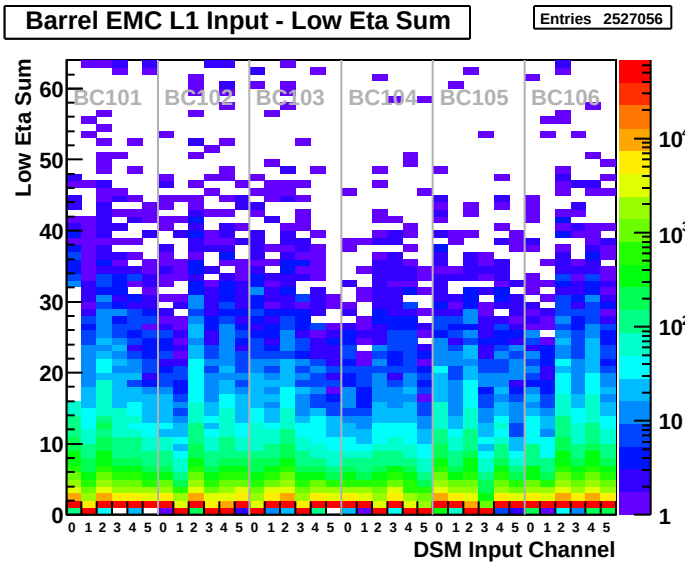
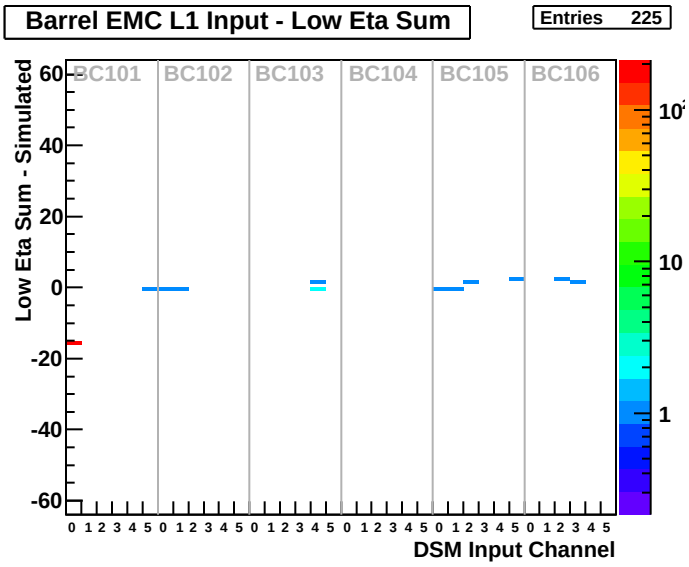
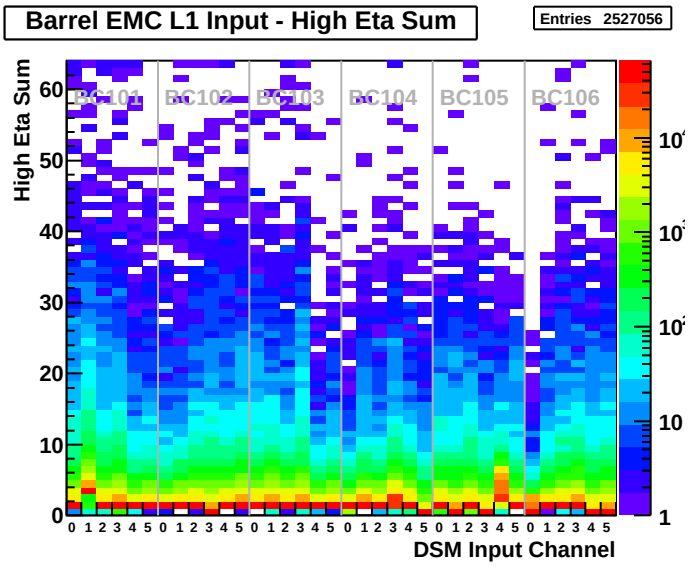
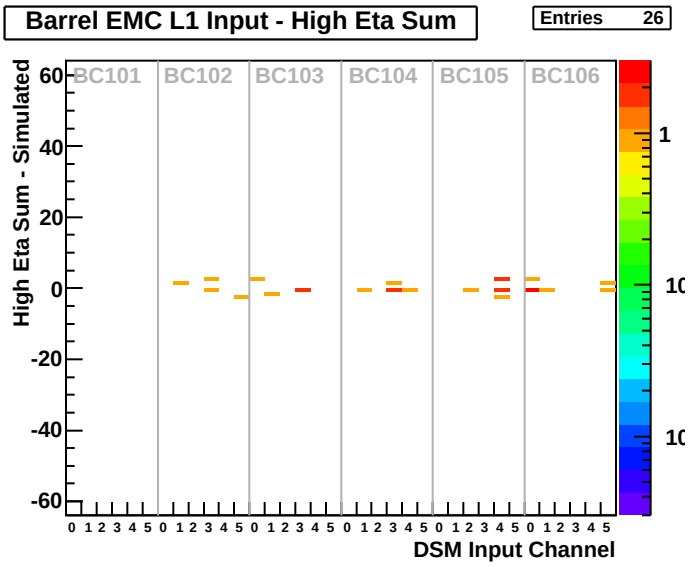
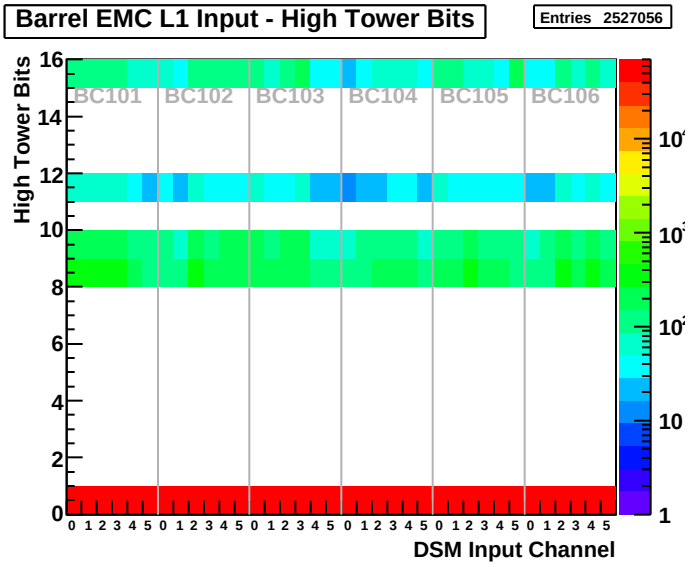
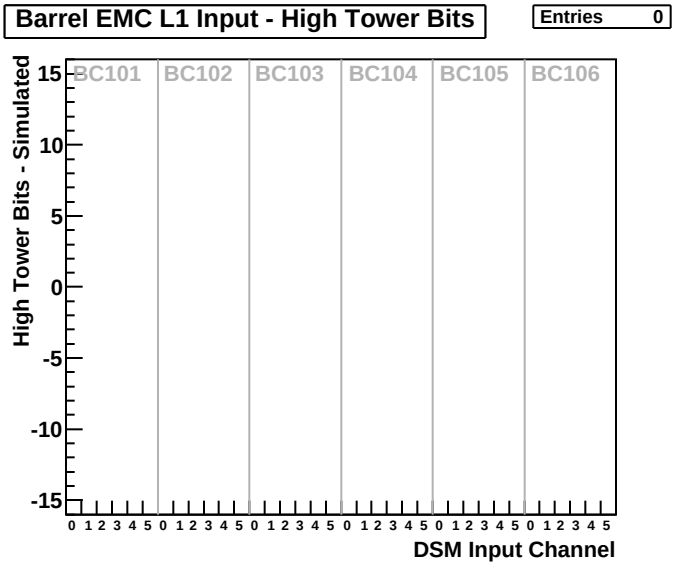

Barrel EMC L1 Input - Low Eta Sum
Entries 2527056
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

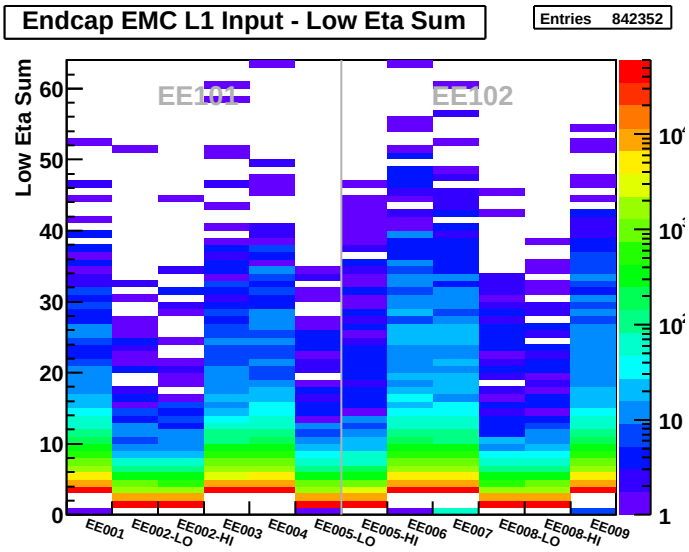

Barrel EMC L1 Input - Low Eta Sum
Entries 225
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

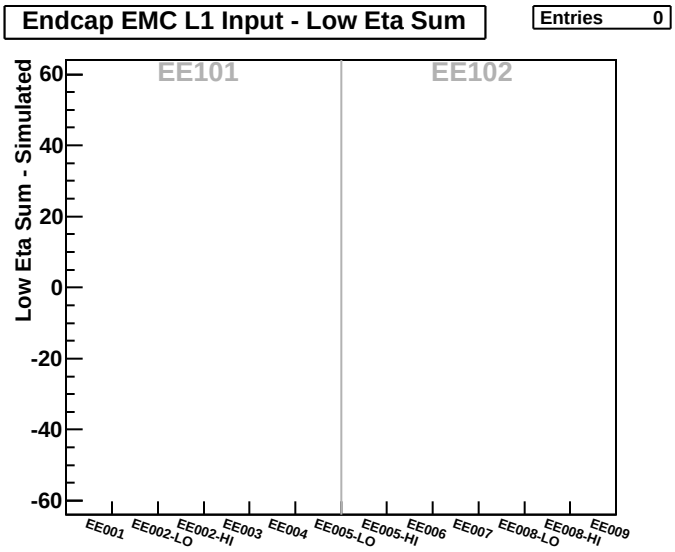

Barrel EMC L1 Input - High Eta Sum
Entries 2527056
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

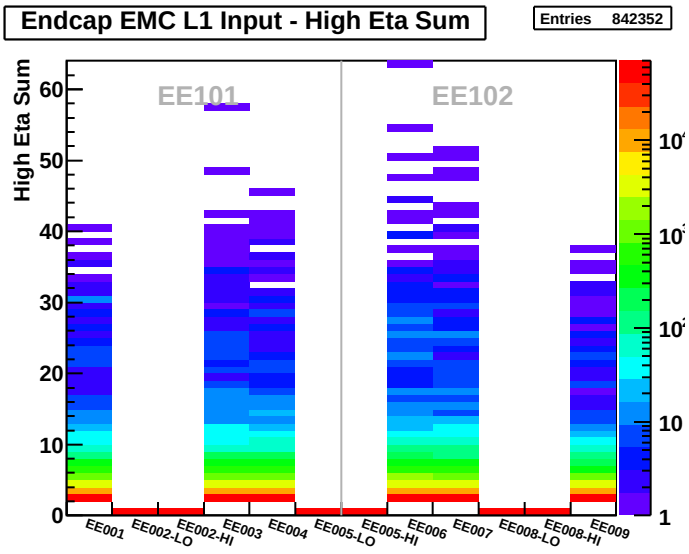

Barrel EMC L1 Input - High Eta Sum
Entries 26
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

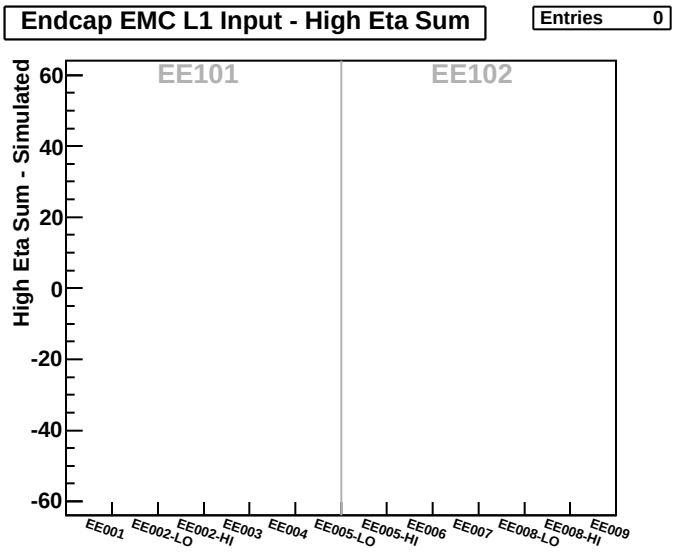

Barrel EMC L1 Input - High Tower Bits
Entries 2527056
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

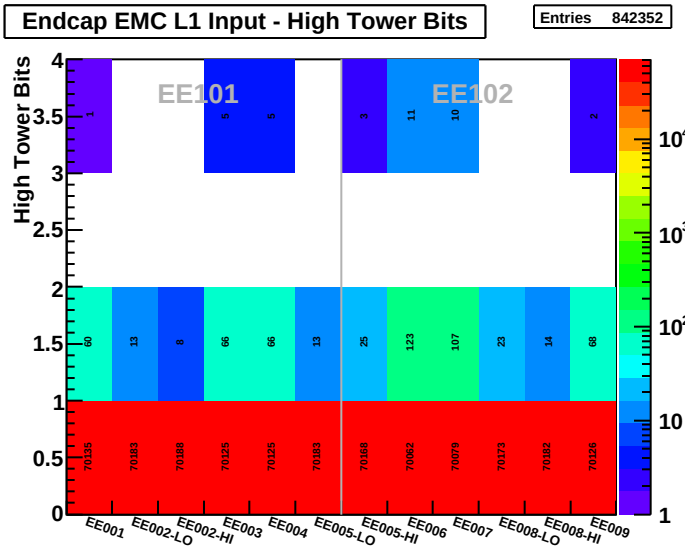

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

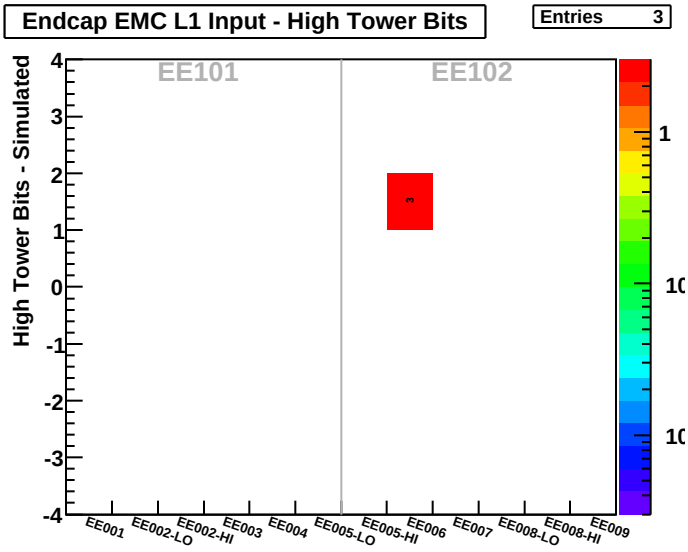

Endcap EMC L1 Input - Low Eta Sum
Entries 842352
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

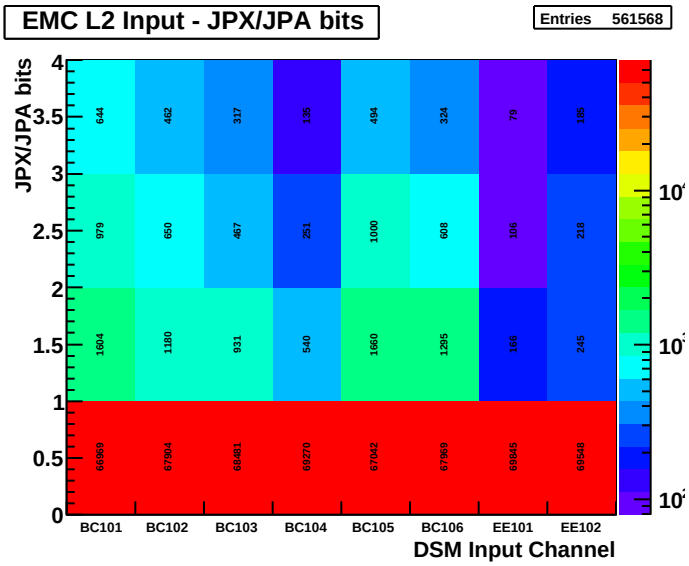

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

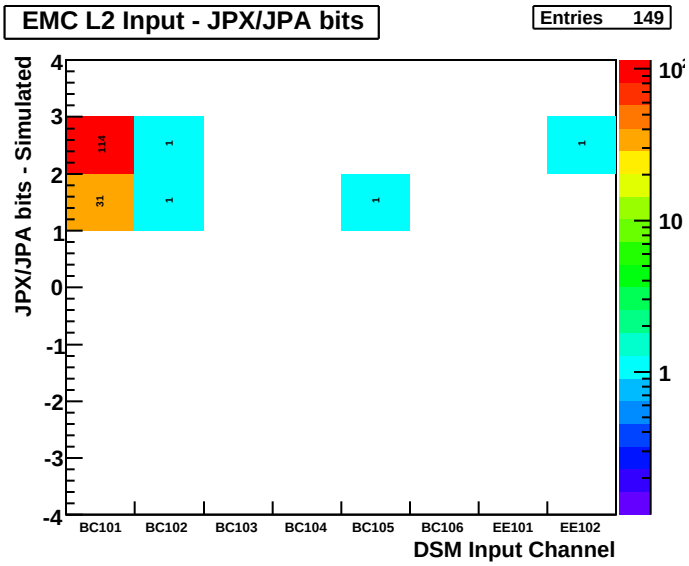

Endcap EMC L1 Input - High Eta Sum
Entries 842352
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

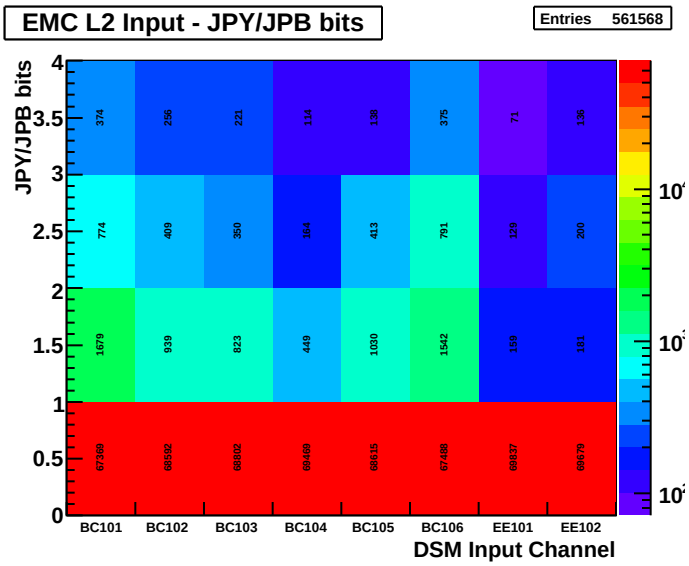

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

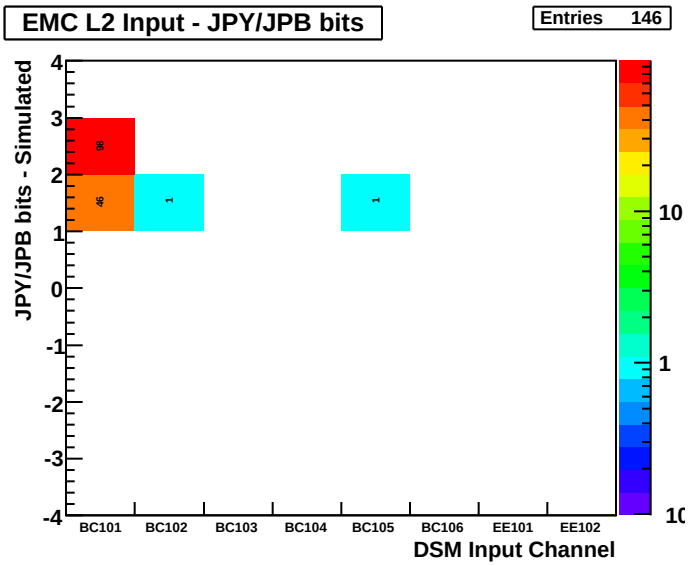

Endcap EMC L1 Input - High Tower Bits
Entries 842352
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

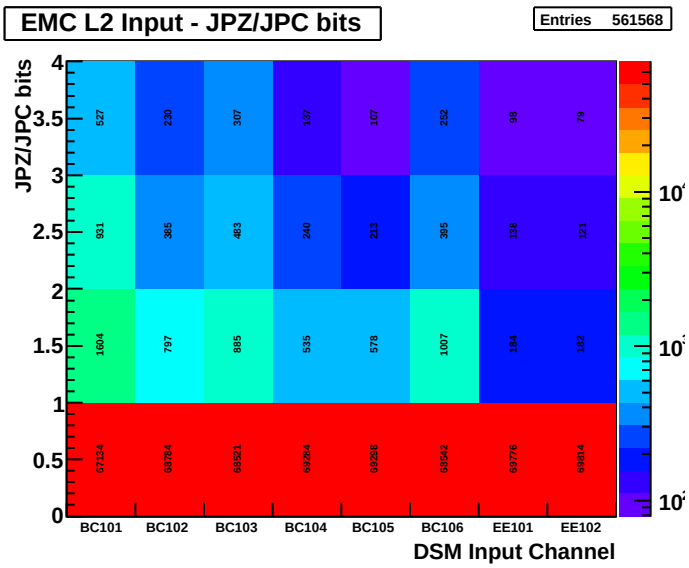

Endcap EMC L1 Input - High Tower Bits
Entries 3
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

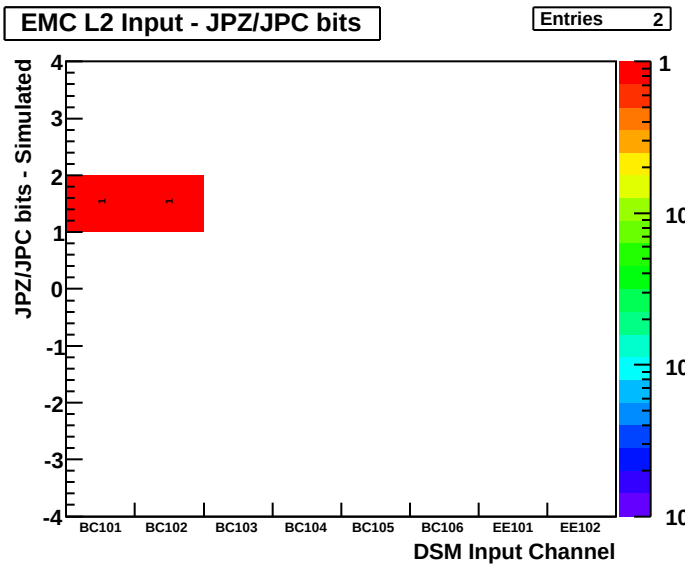

EMC L2 Input - JPX/JPA bits
Entries 561568
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
644 462 317 135 494 324 79 185
979 650 467 251 1000 608 106 218
1604 1180 931 540 1660 1295 166 245
66969 67904 68481 69270 67042 67969 69845 69548

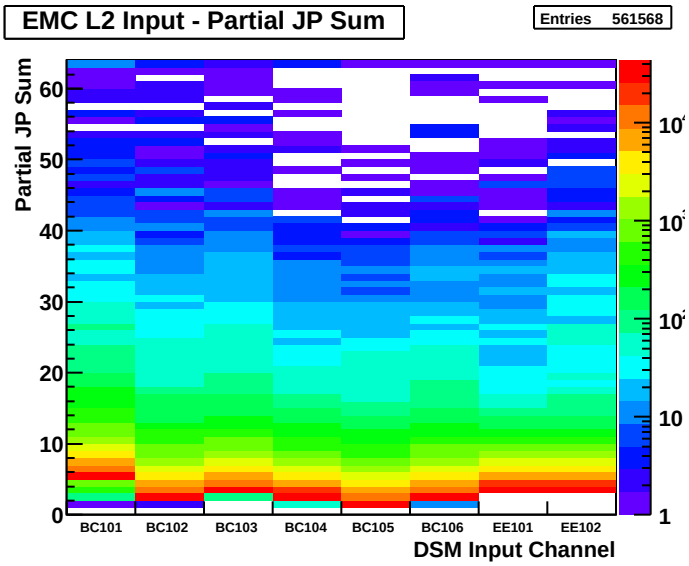

EMC L2 Input - JPX/JPA bits
Entries 149
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
114 1 1
31 1 1 1

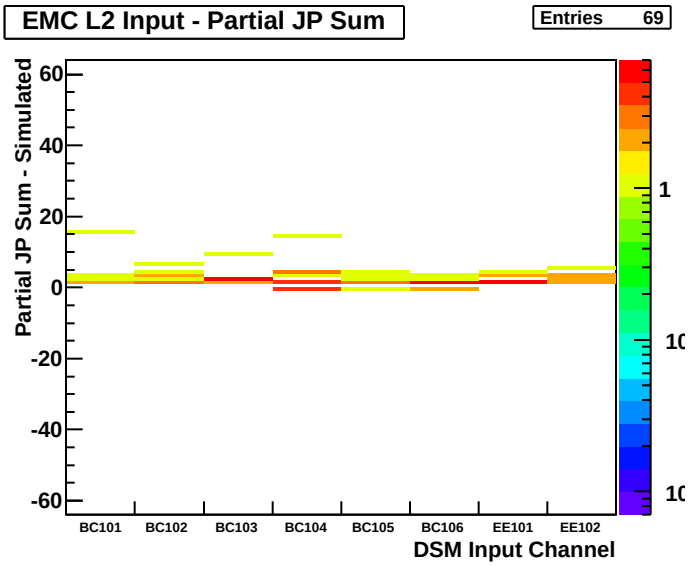

EMC L2 Input - JPY/JPB bits
Entries 561568
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
374 256 221 114 138 375 71 136
774 409 350 164 413 791 129 200
1679 939 823 449 1030 1542 159 181
67369 68592 68802 69469 68615 67488 69837 69679

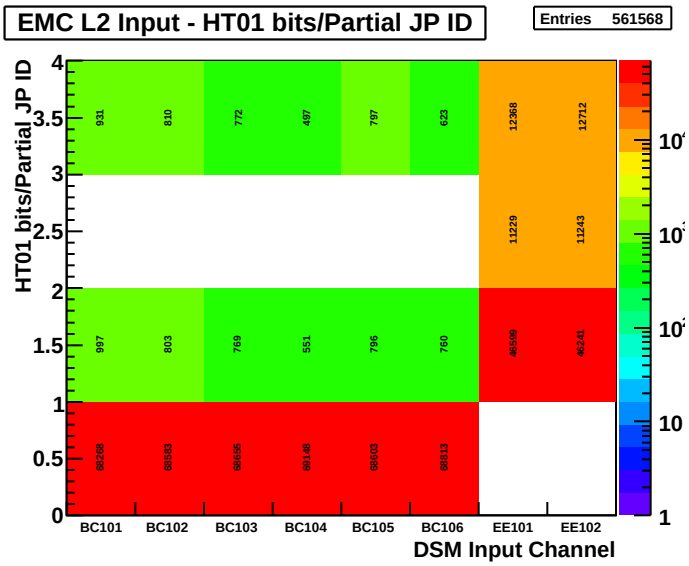

EMC L2 Input - JPY/JPB bits
Entries 146
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
98
46 1 1

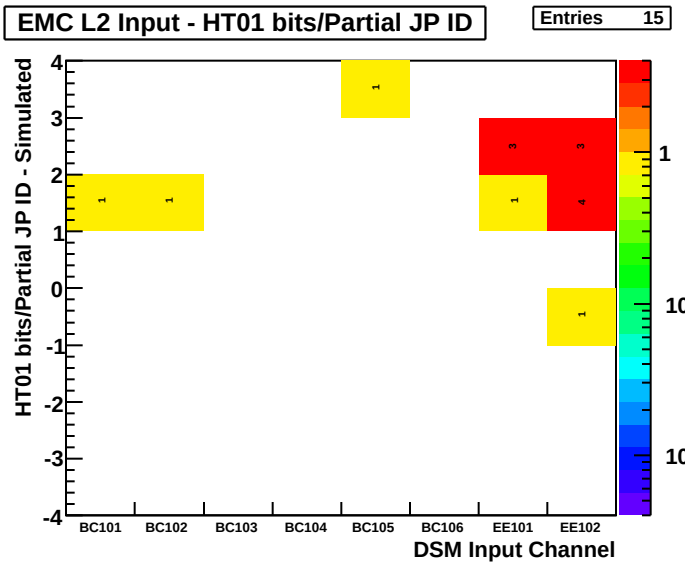

EMC L2 Input - JPZ/JPC bits
Entries 561568
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
527 230 307 137 107 252 98 79
931 385 483 240 213 395 138 121
1604 797 885 535 578 1007 184 182
67134 68704 68821 69284 69298 68542 69776 69814

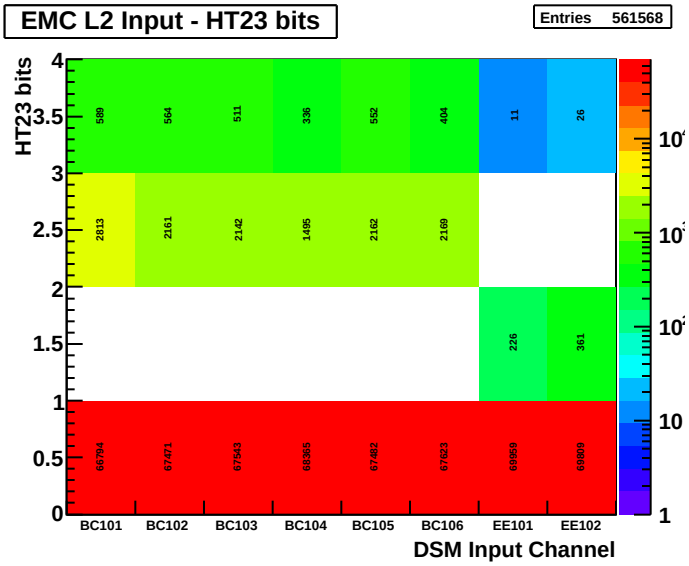

EMC L2 Input - JPZ/JPC bits
Entries 2
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1

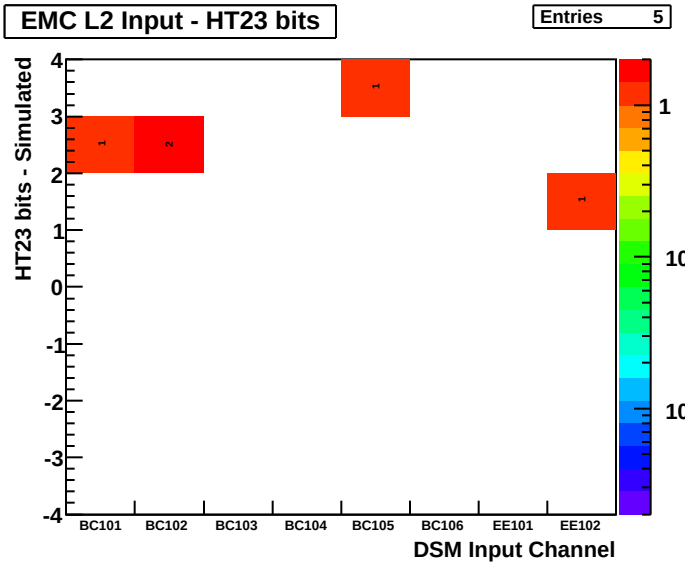

EMC L2 Input - Partial JP Sum
Entries 561568
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

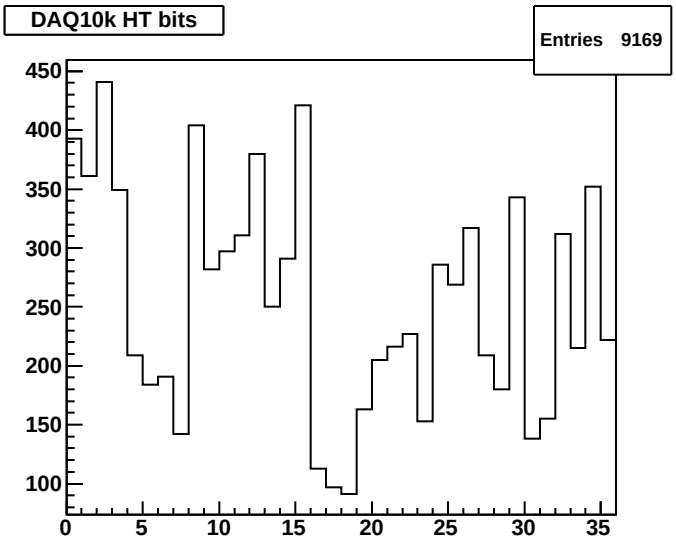

EMC L2 Input - Partial JP Sum
Entries 69
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

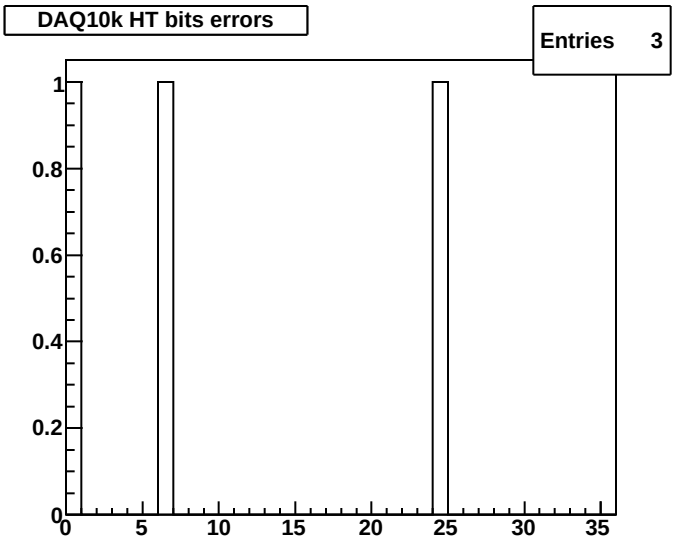

EMC L2 Input - HT01 bits/Partial JP ID
Entries 561568
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

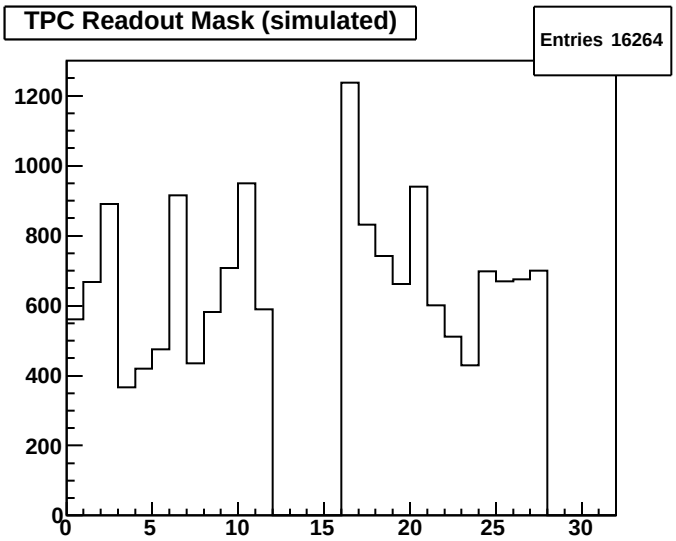

EMC L2 Input - HT01 bits/Partial JP ID
Entries 15
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

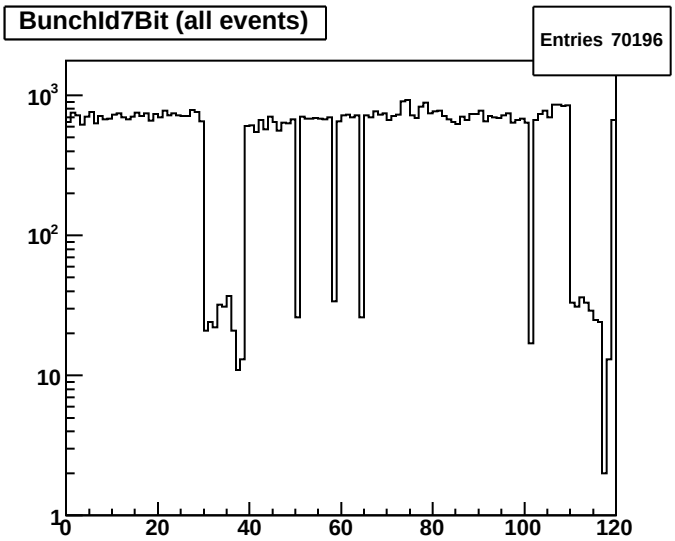

EMC L2 Input - HT23 bits
Entries 561568
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

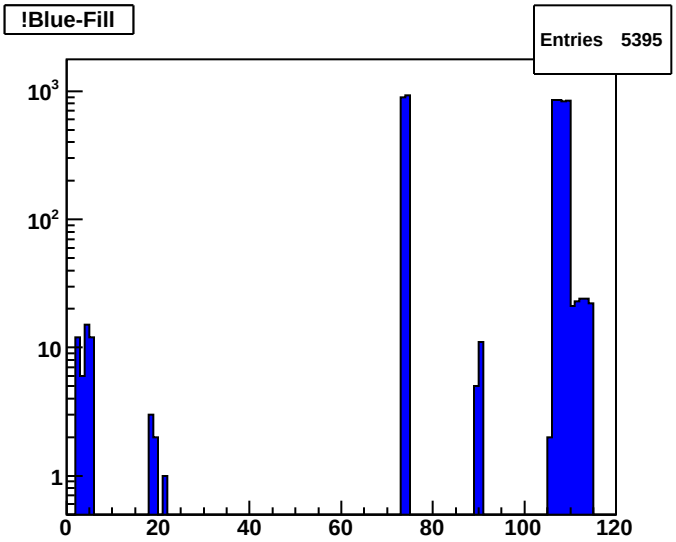

EMC L2 Input - HT23 bits
Entries 5
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

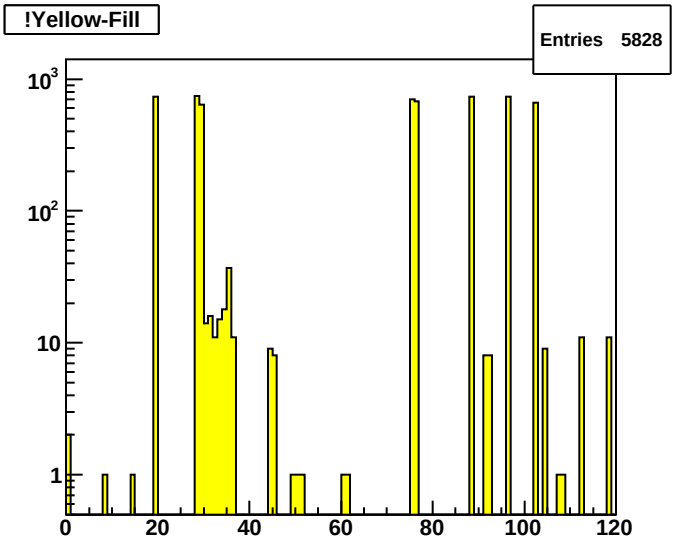

DAQ10k HT bits
Entries 9169

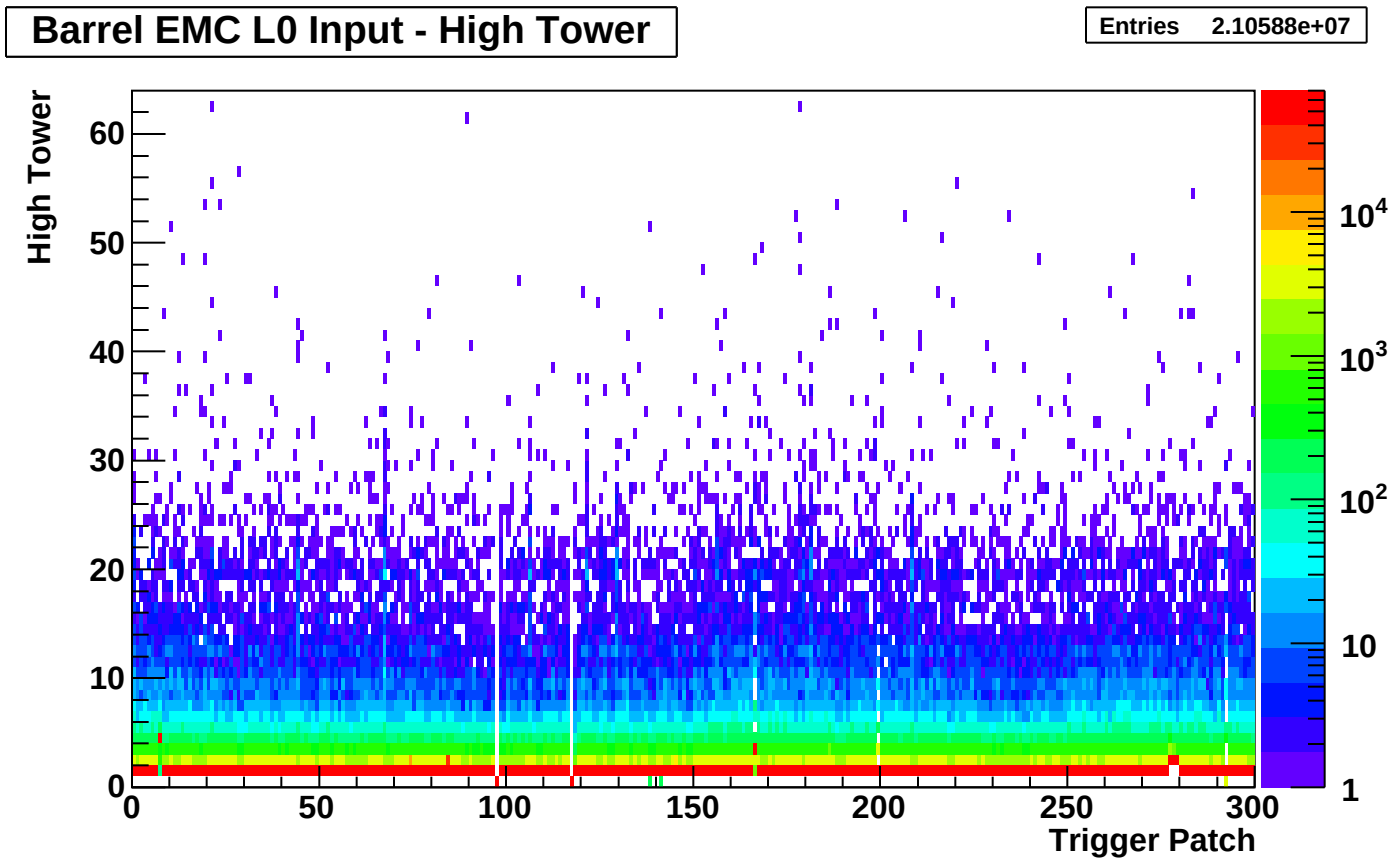

DAQ10k HT bits errors
Entries 3

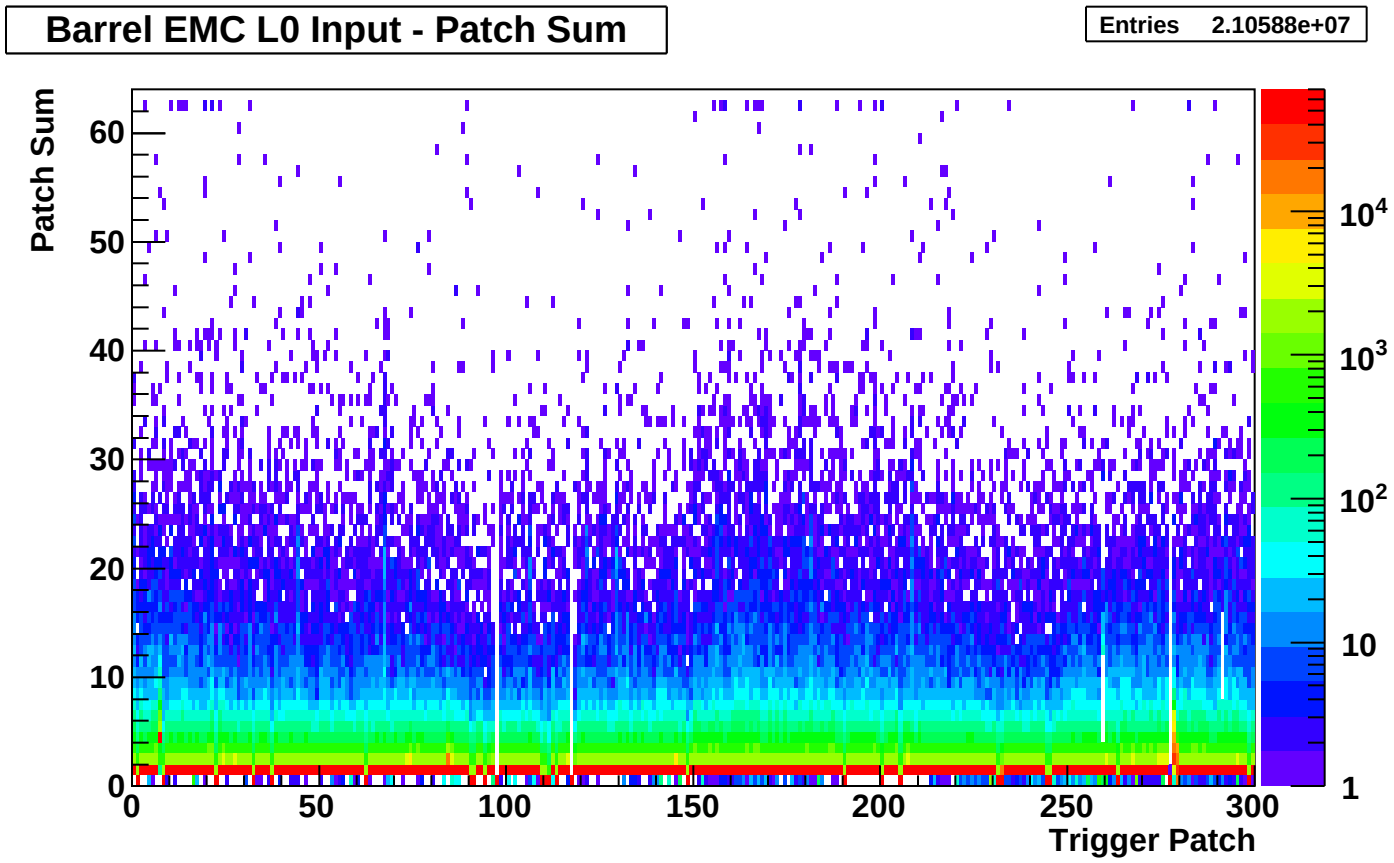

TPC Readout Mask (simulated)
Entries 16264

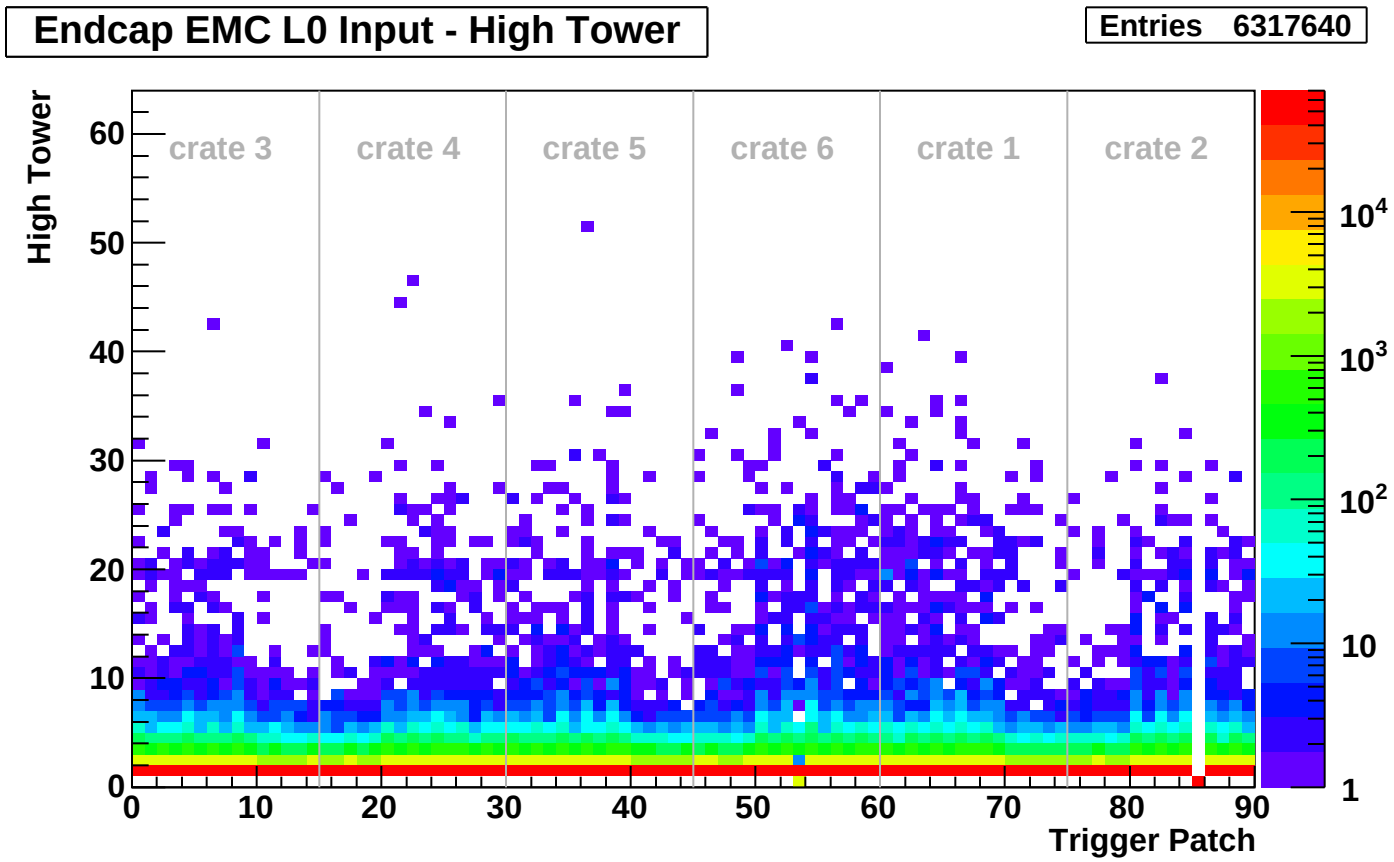

BunchId7Bit (all events)
Entries 70196

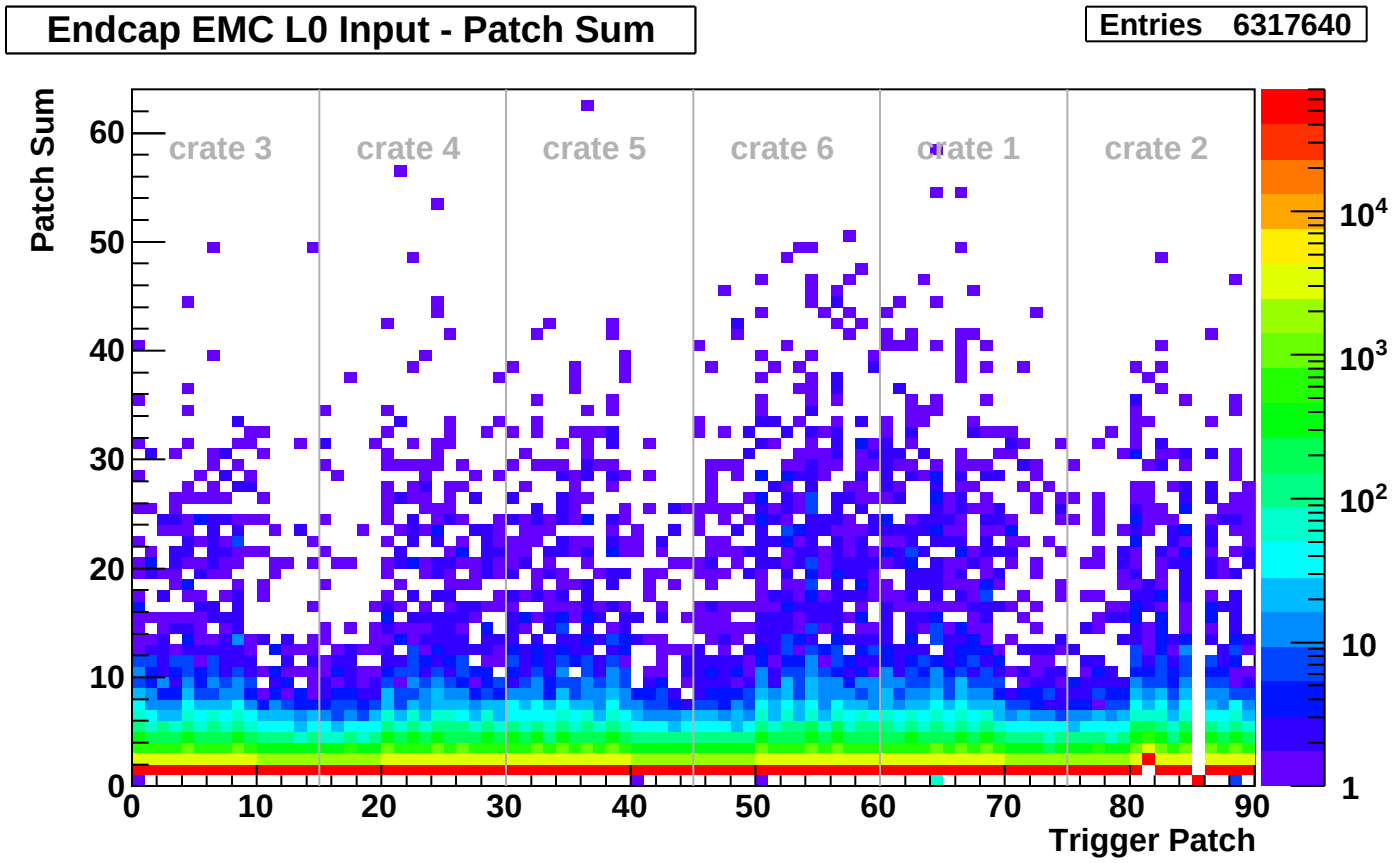

!Blue-Fill
Entries 5395

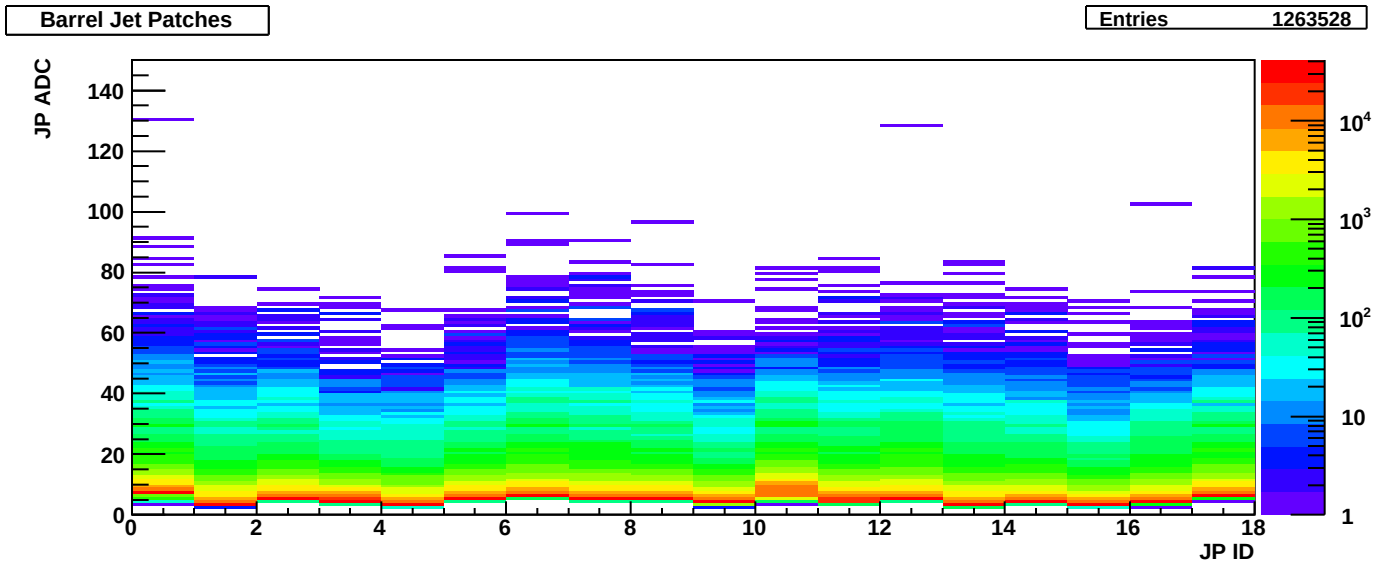

!Yellow-Fill
Entries 5828

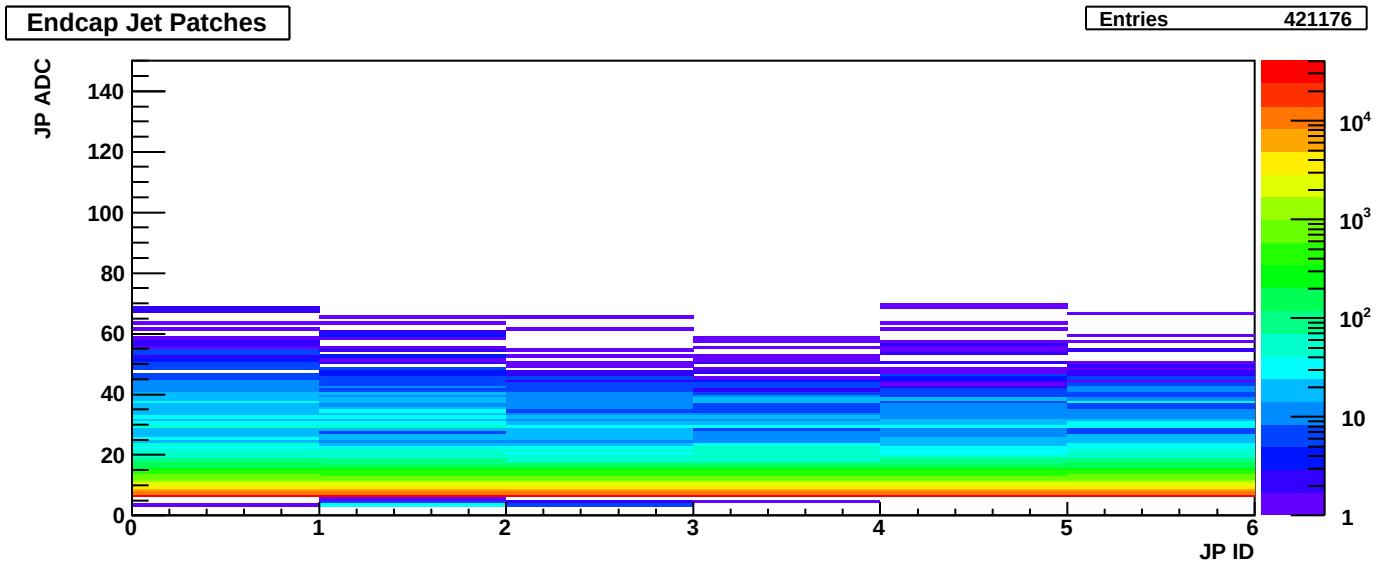

Barrel EMC L0 Input - High Tower
Entries 2.10588e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

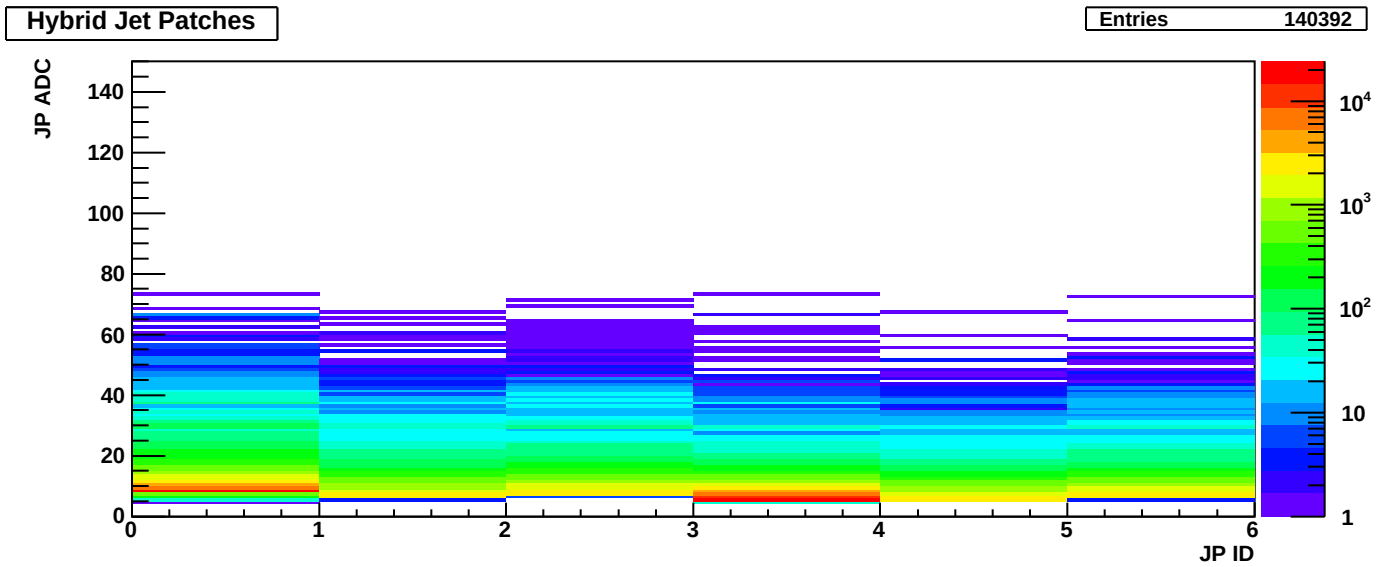

Barrel EMC L0 Input - Patch Sum
Entries 2.10588e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

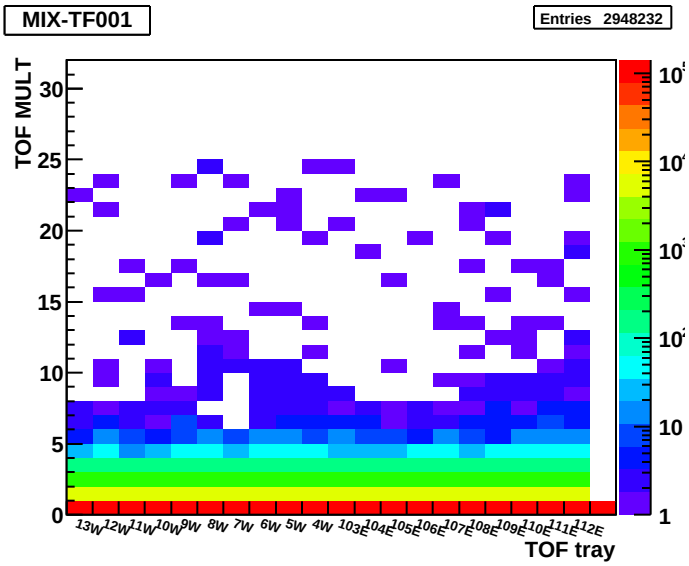

Endcap EMC L0 Input - High Tower
Entries 6317640
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

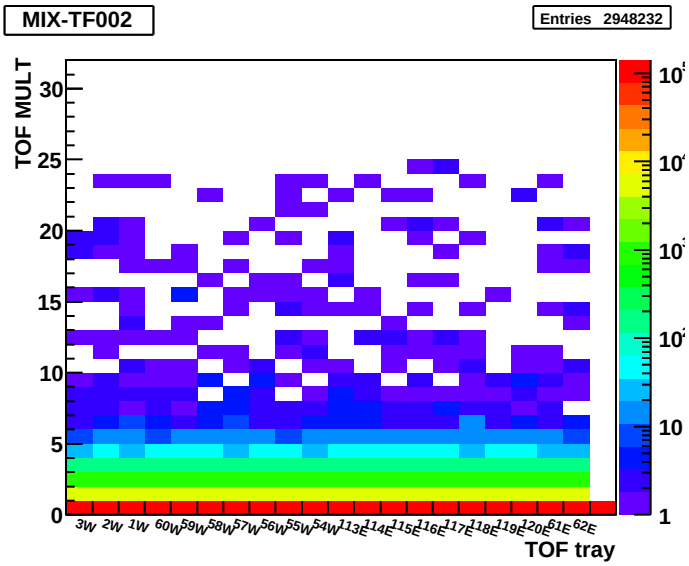

Endcap EMC L0 Input - Patch Sum
Entries 6317640
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

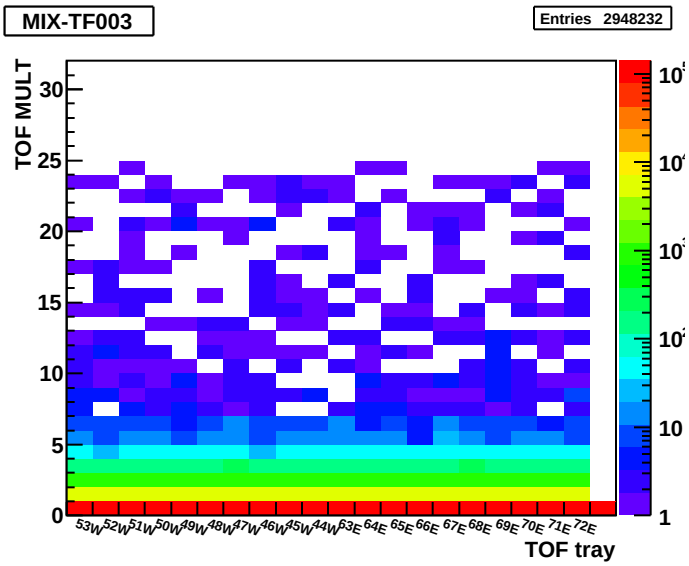

Barrel Jet Patches
Entries 1263528
JP ADC
JP ID

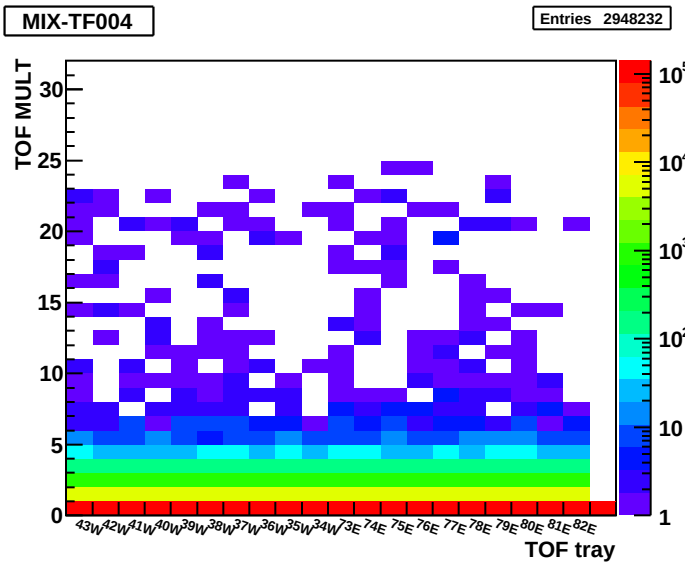

Endcap Jet Patches
Entries 421176
JP ADC
JP ID

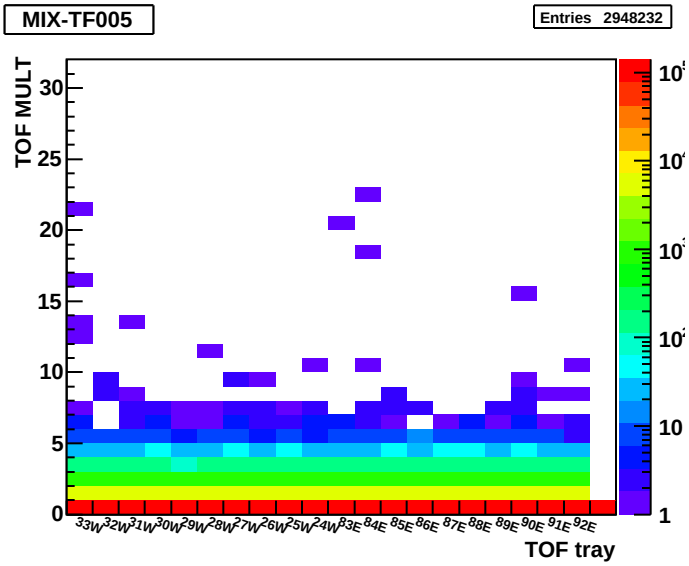

Hybrid Jet Patches
Entries 140392
JP ADC
JP ID

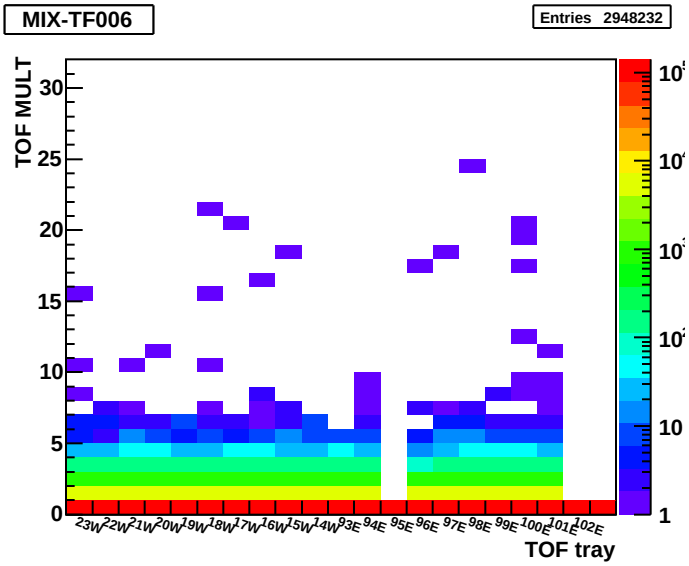

MIX-TF001
Entries 2948232
TOF MULT
TOF tray

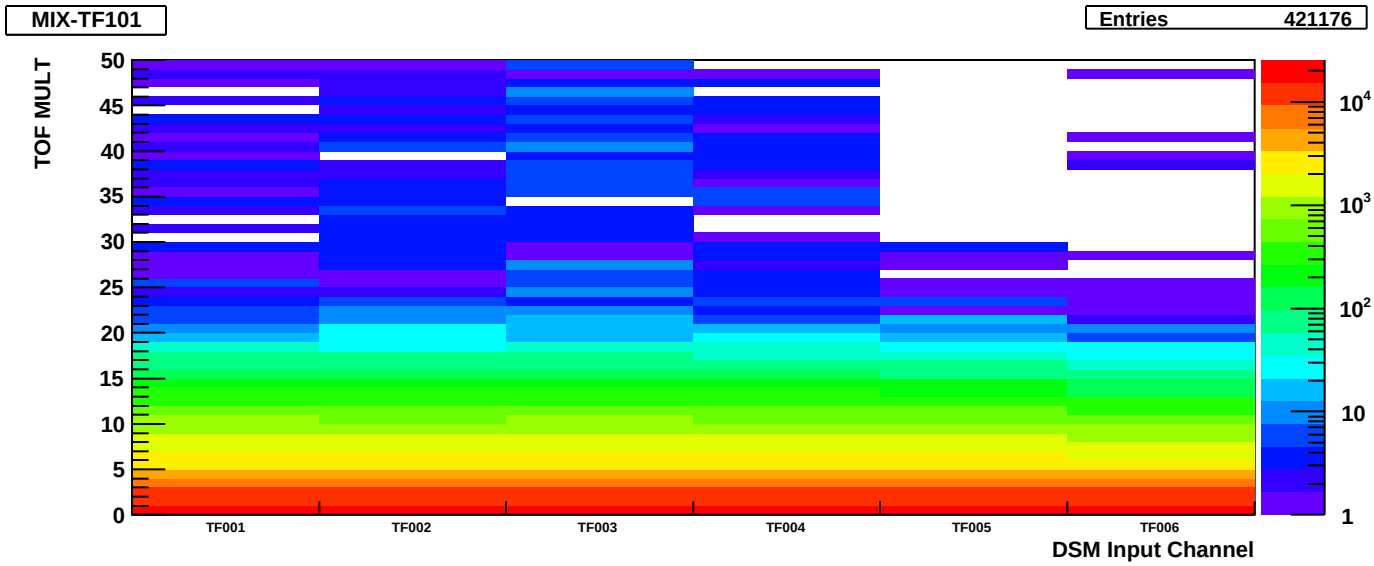

MIX-TF002
Entries 2948232
TOF MULT
TOF tray

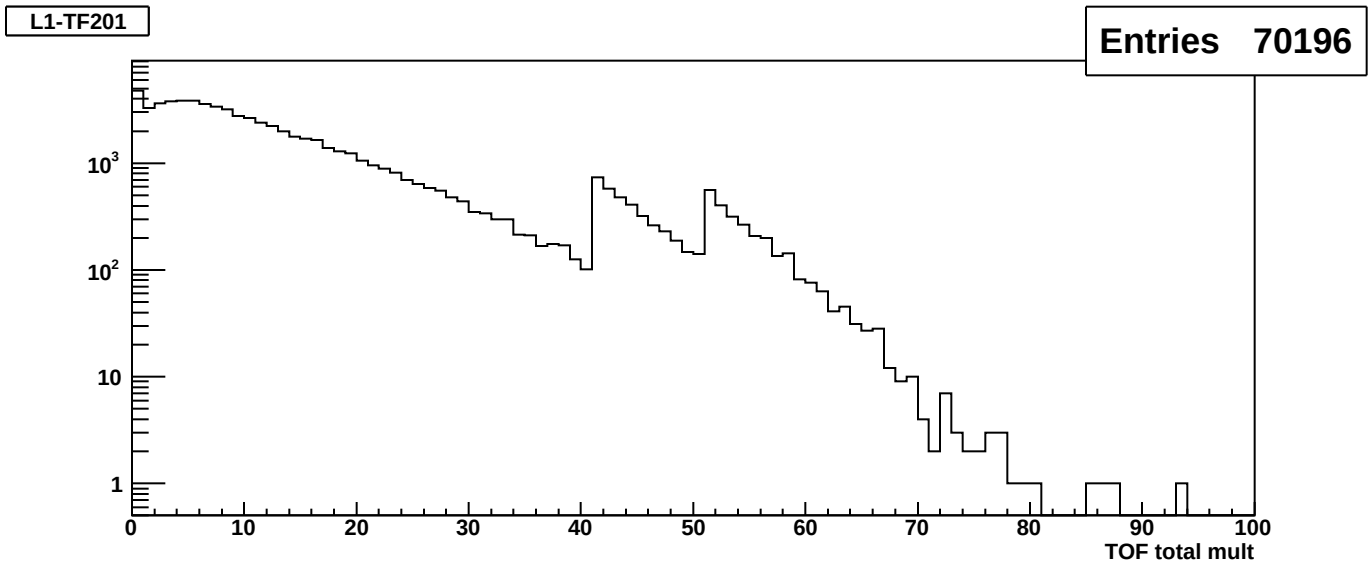

MIX-TF003
Entries 2948232
TOF MULT
TOF tray

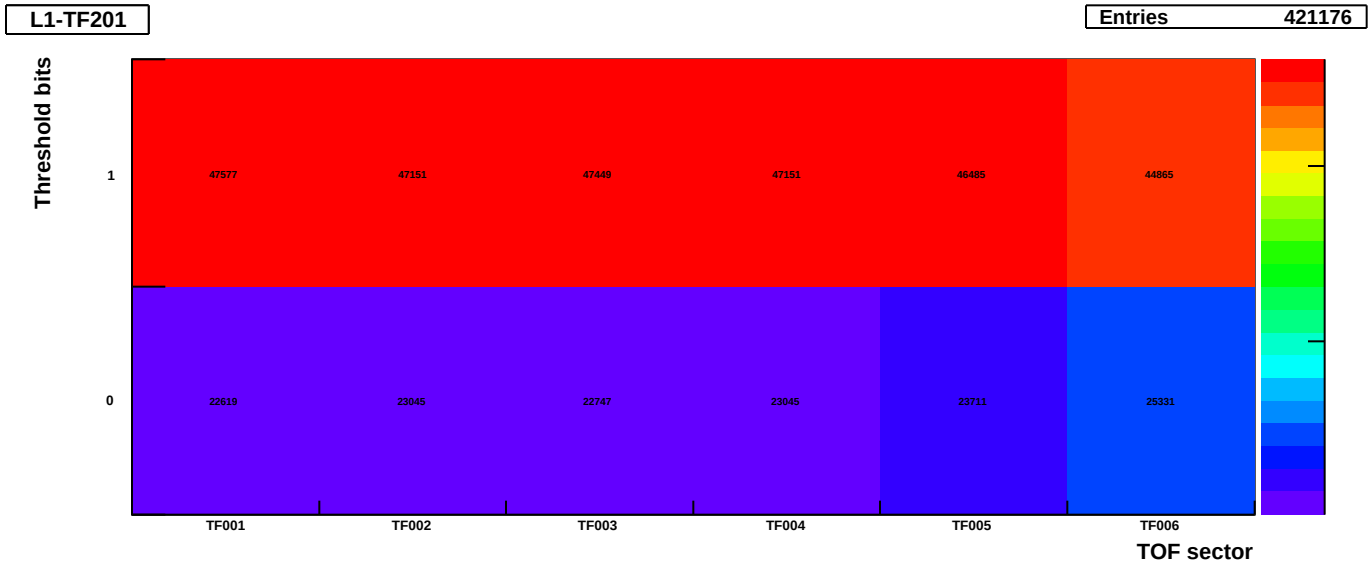

MIX-TF004
Entries 2948232
TOF MULT
TOF tray

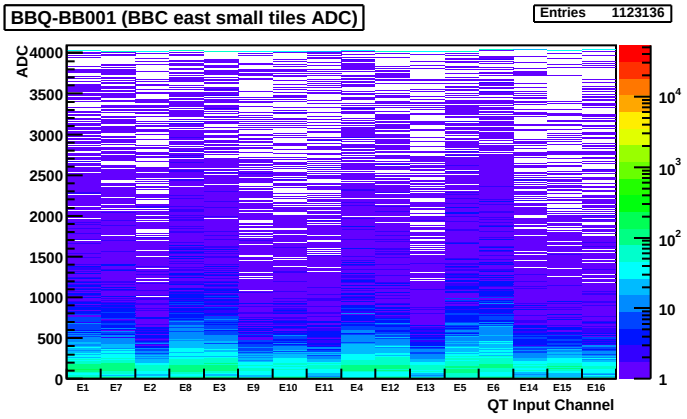

MIX-TF005
Entries 2948232
TOF MULT
TOF tray

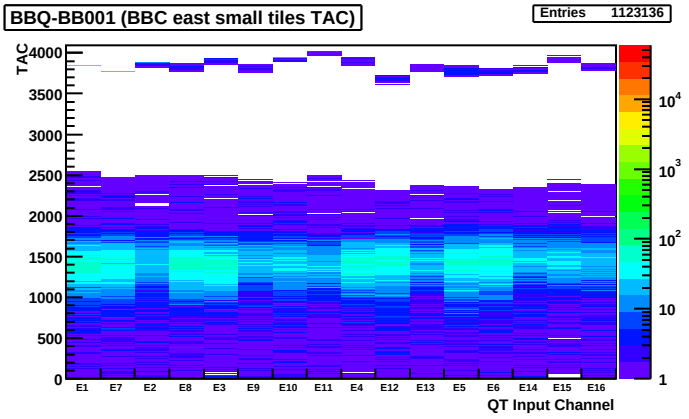

MIX-TF006
Entries 2948232
TOF MULT
TOF tray

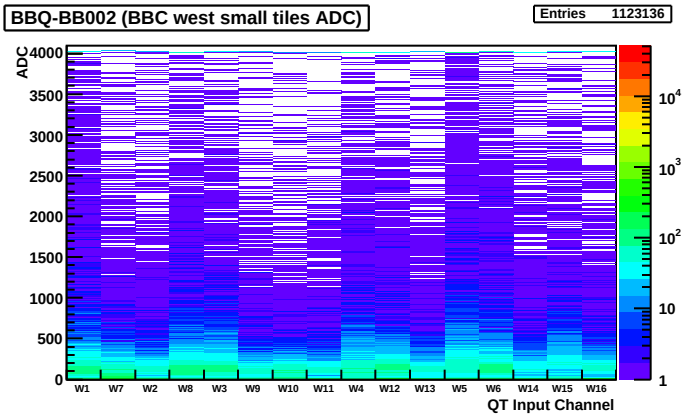

MIX-TF101
Entries 421176
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

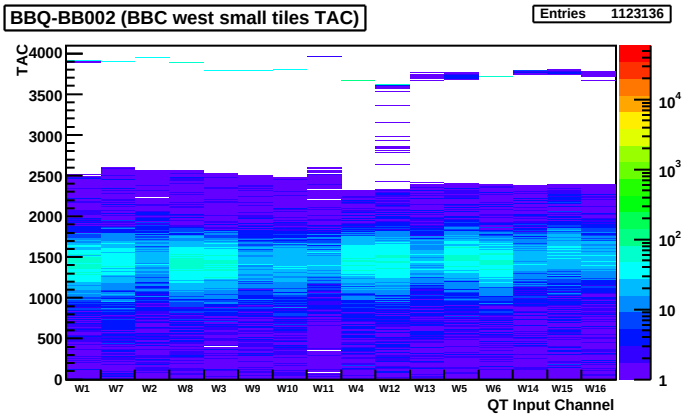

L1-TF201
Entries 70196
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

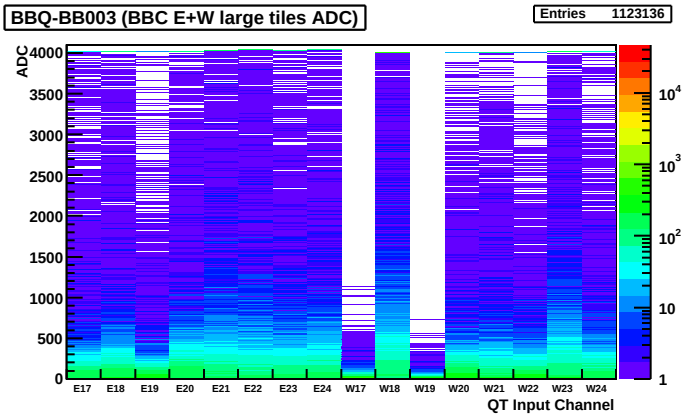

L1-TF201
Entries 421176
Threshold bits
1
0
47577
47151
47449
47151
46485
44865
22619
23045
22747
23045
23711
25331
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

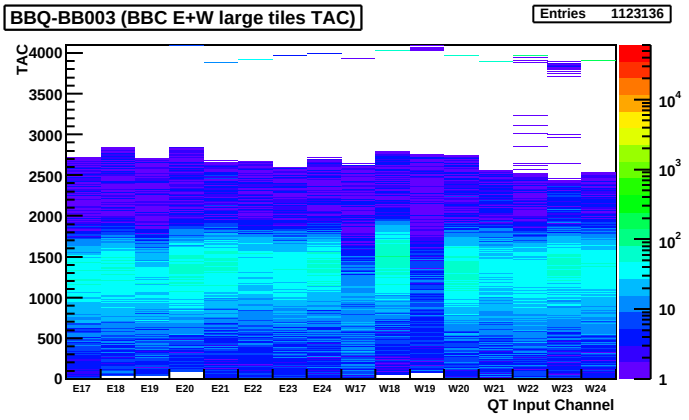

BBQ-BB001 (BBC east small tiles ADC)
Entries 1123136
ADC
QT Input Channel

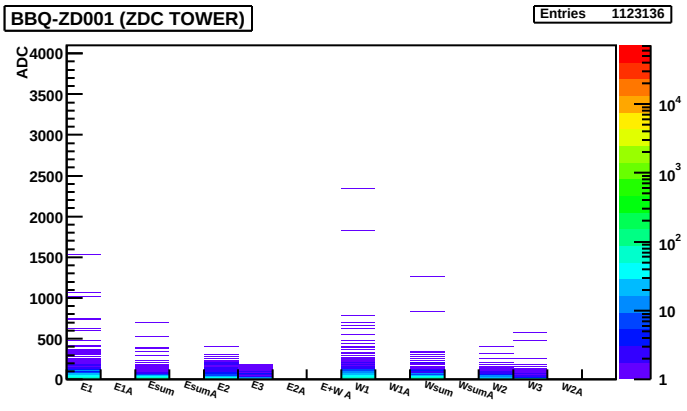

BBQ-BB001 (BBC east small tiles TAC)
Entries 1123136
TAC
QT Input Channel

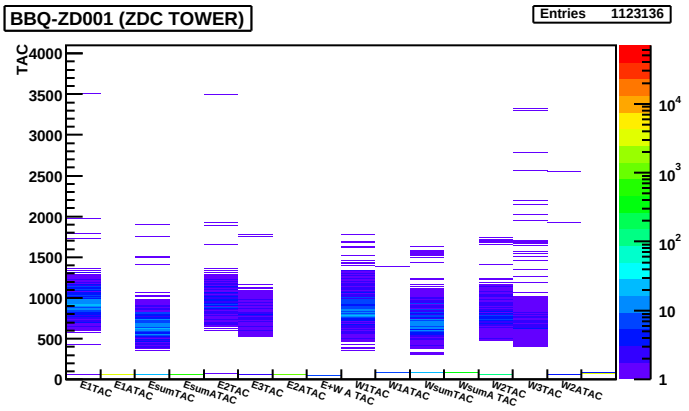

BBQ-BB002 (BBC west small tiles ADC)
Entries 1123136
ADC
QT Input Channel

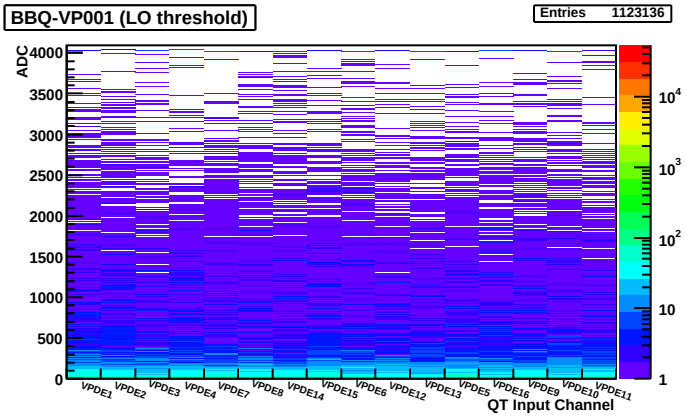

BBQ-BB002 (BBC west small tiles TAC)
Entries 1123136
TAC
QT Input Channel

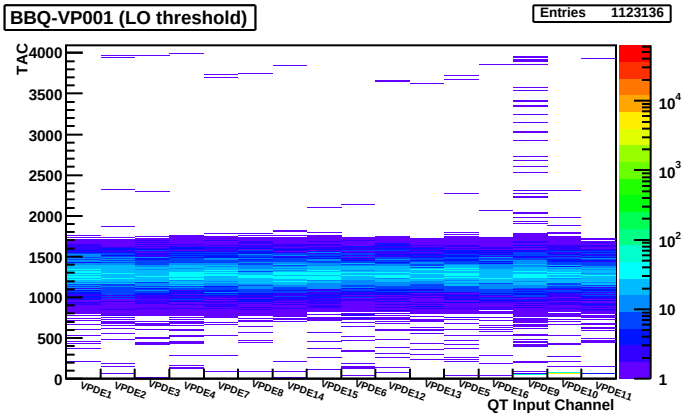

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1123136
ADC
QT Input Channel

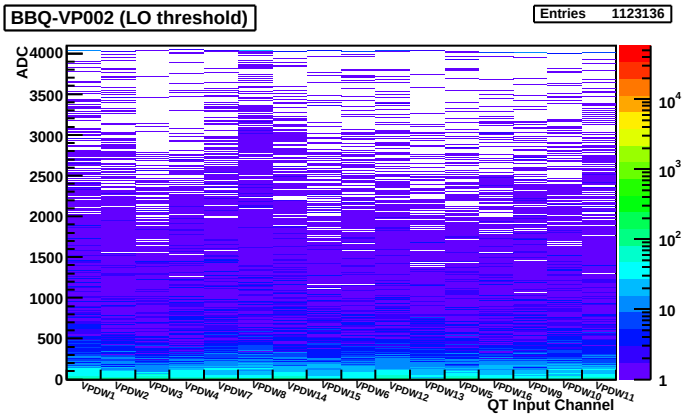

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1123136
TAC
QT Input Channel

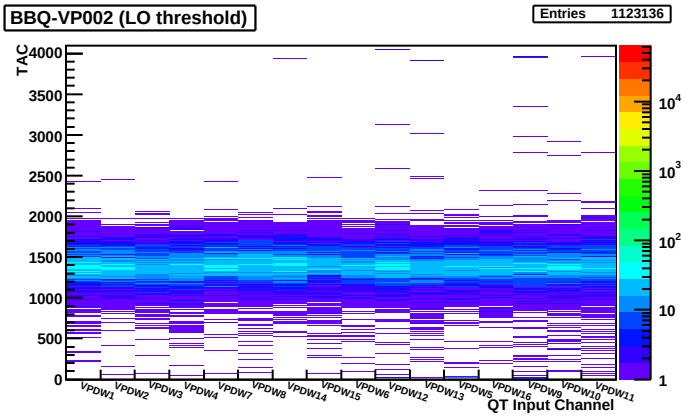

BBQ-ZD001 (ZDC TOWER)
Entries 1123136
ADC

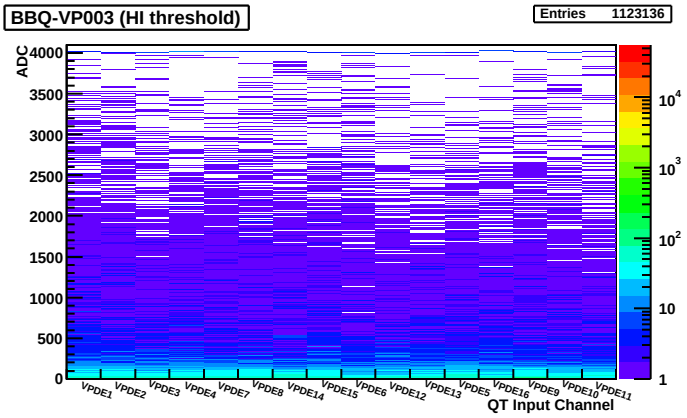

BBQ-ZD001 (ZDC TOWER)
Entries 1123136
TAC

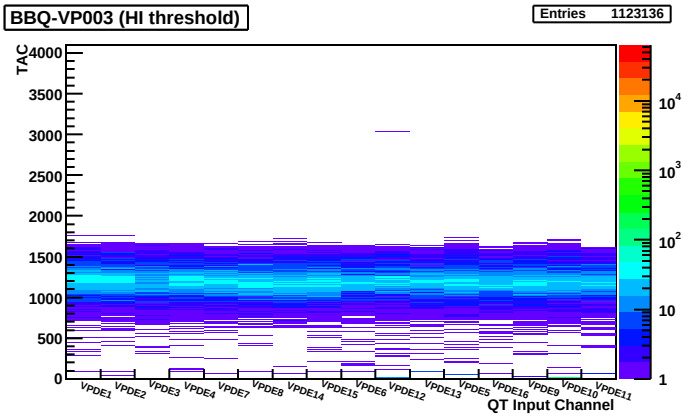

BBQ-VP001 (LO threshold)
Entries 1123136
ADC
QT Input Channel

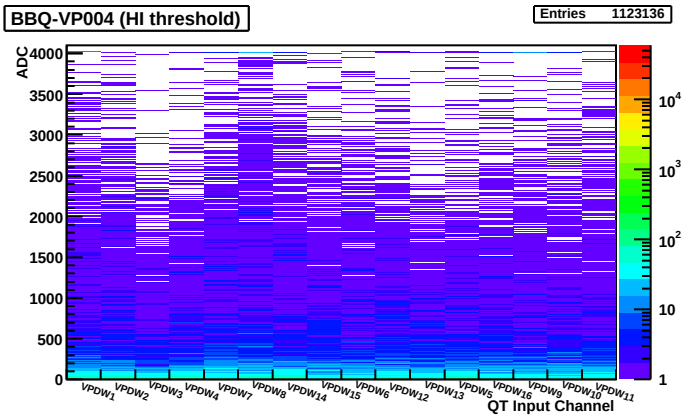

BBQ-VP001 (LO threshold)
Entries 1123136
TAC
QT Input Channel

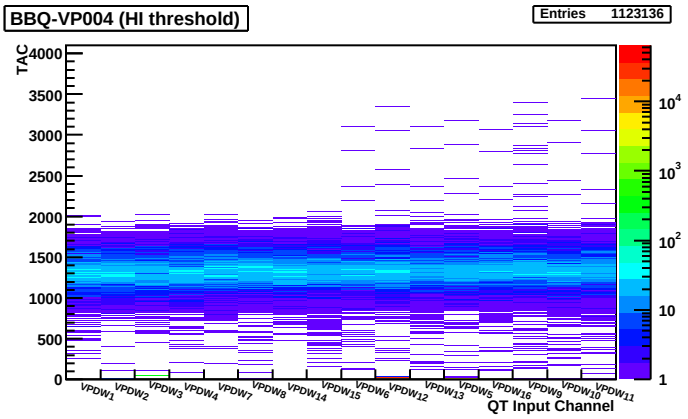

BBQ-VP002 (LO threshold)
Entries 1123136
ADC
QT Input Channel

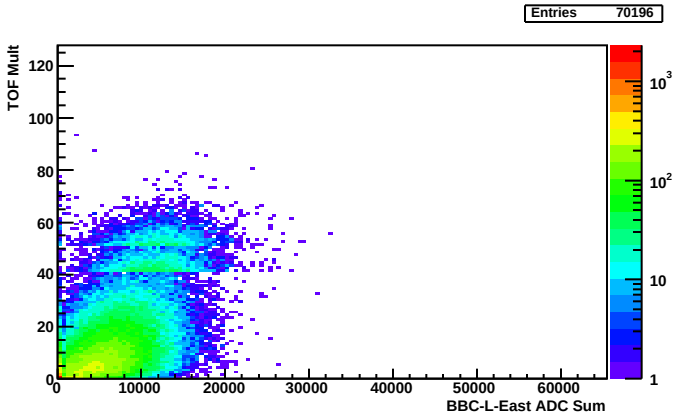

BBQ-VP002 (LO threshold)
Entries 1123136
TAC
QT Input Channel

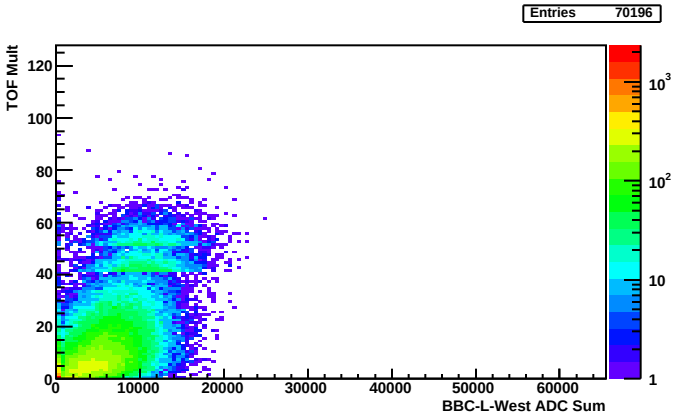

BBQ-VP003 (HI threshold)
Entries 1123136
ADC
QT Input Channel

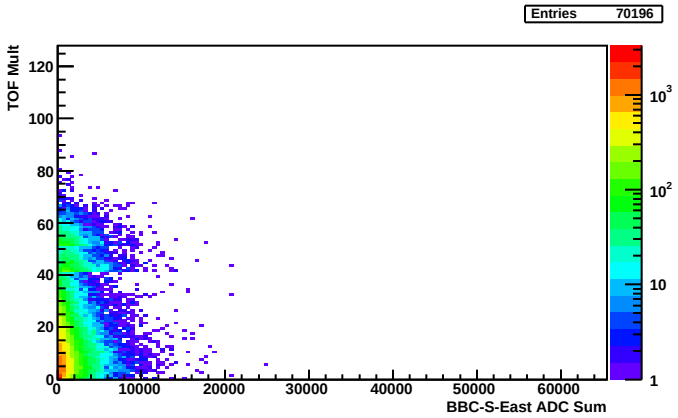

BBQ-VP003 (HI threshold)
Entries 1123136
TAC
QT Input Channel

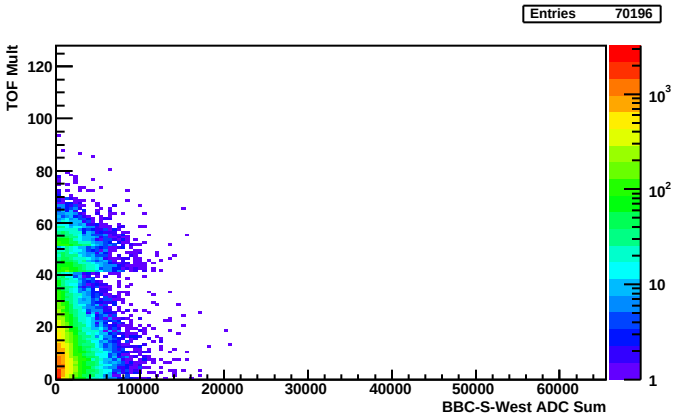

BBQ-VP004 (HI threshold)
Entries 1123136
ADC
QT Input Channel

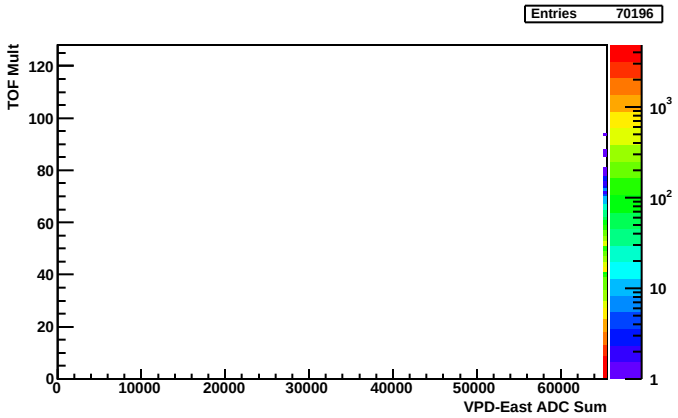

BBQ-VP004 (HI threshold)
Entries 1123136
TAC
QT Input Channel

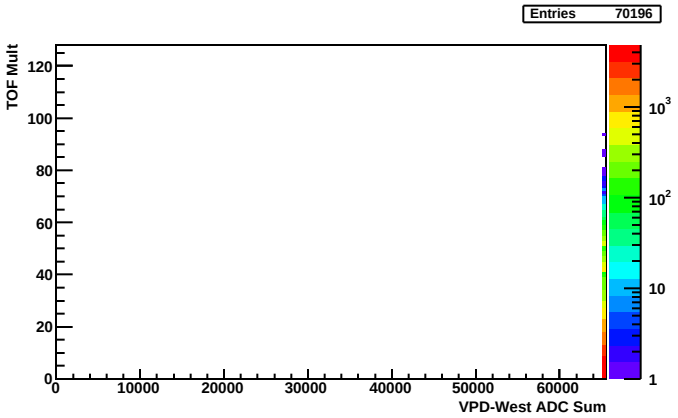

Entries 70196
TOF Mult
BBC-L-East ADC Sum

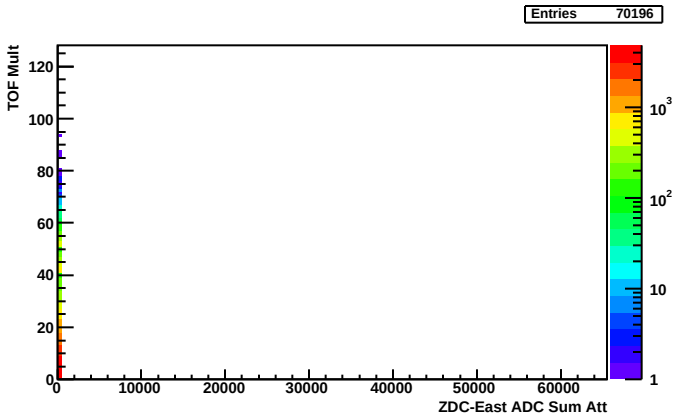

Entries 70196
TOF Mult
BBC-L-West ADC Sum

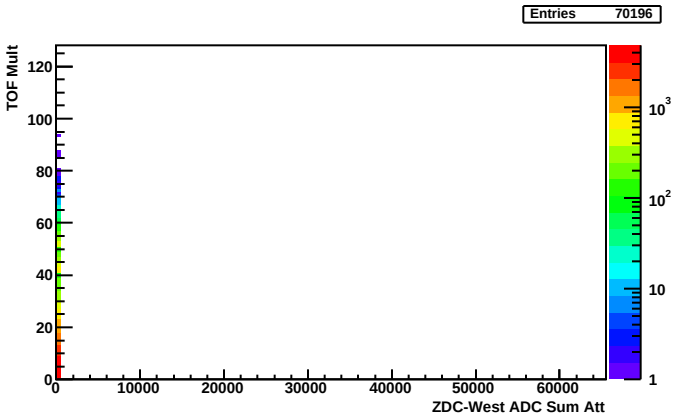

Entries 70196
TOF Mult
BBC-S-East ADC Sum

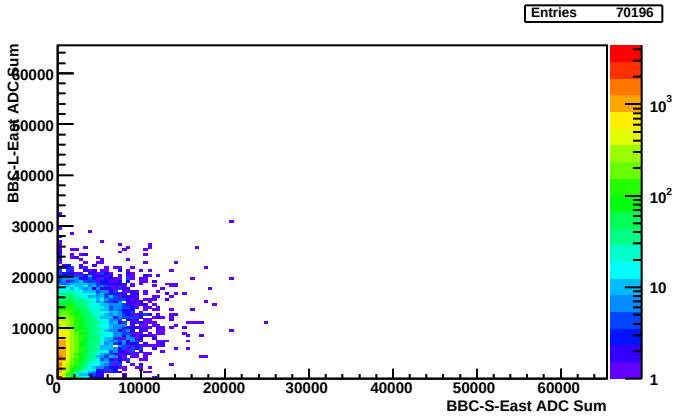

Entries 70196
TOF Mult
BBC-S-West ADC Sum


Entries 70196
TOF Mult
VPD-East ADC Sum


Entries 70196
TOF Mult
VPD-West ADC Sum


Entries 70196
TOF Mult
ZDC-East ADC Sum Att


Entries 70196
TOF Mult
ZDC-West ADC Sum Att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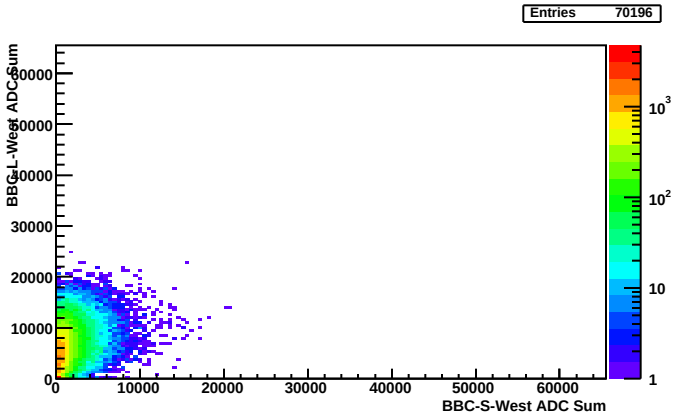
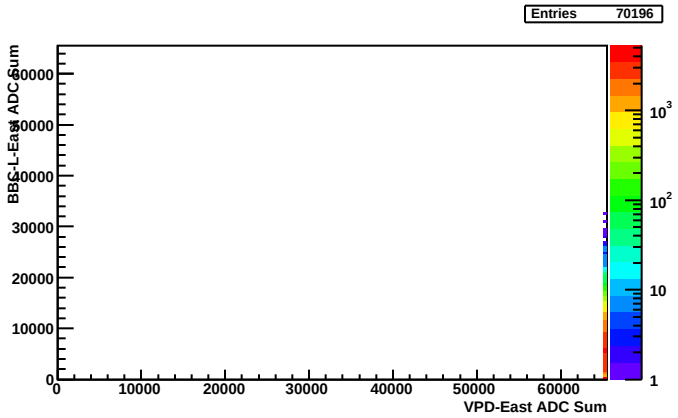
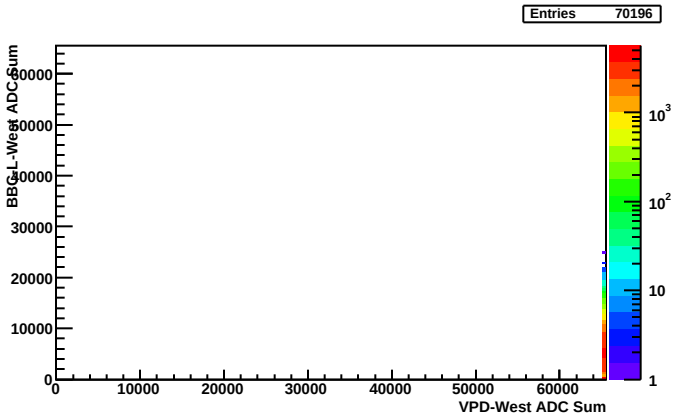
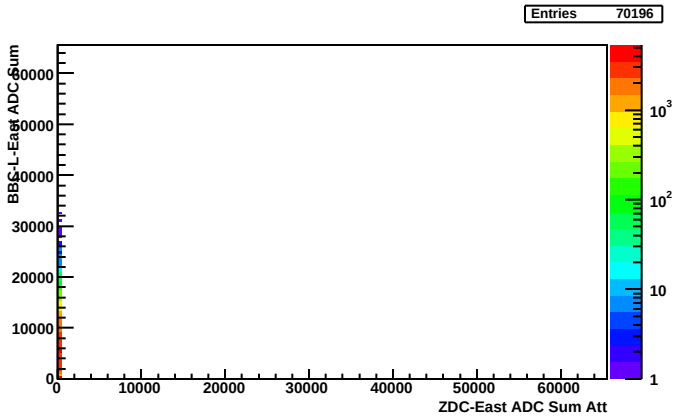
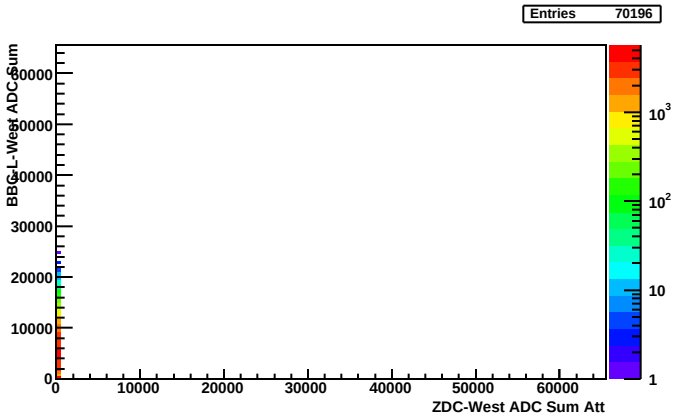
BBC-L-East ADC Sum
BBC-S-East ADC Sum

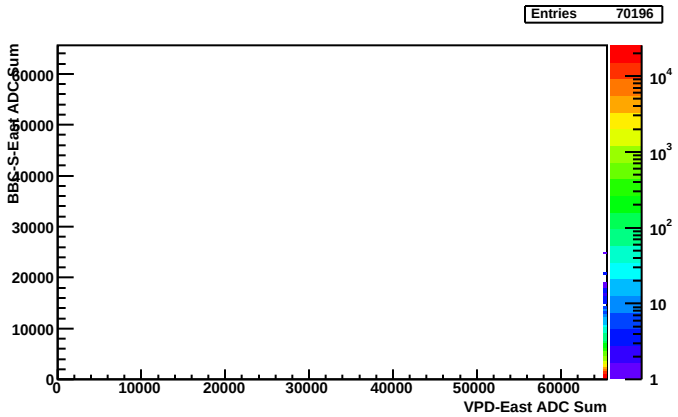

Entries 70196
BBC-L-West ADC Sum
BBC-S-West ADC Sum

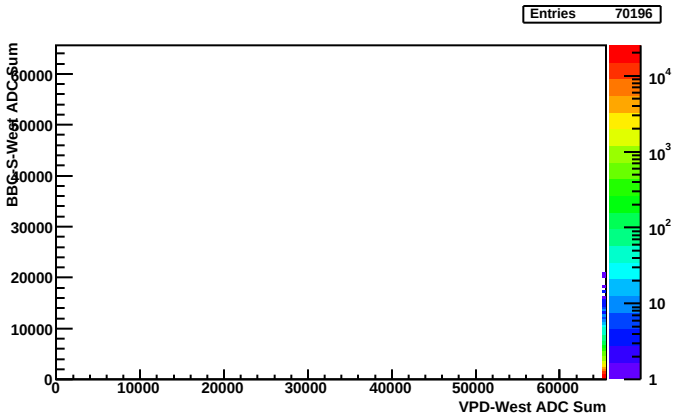

Entries 70196
BBC-L-East ADC Sum
VPD-East ADC Sum

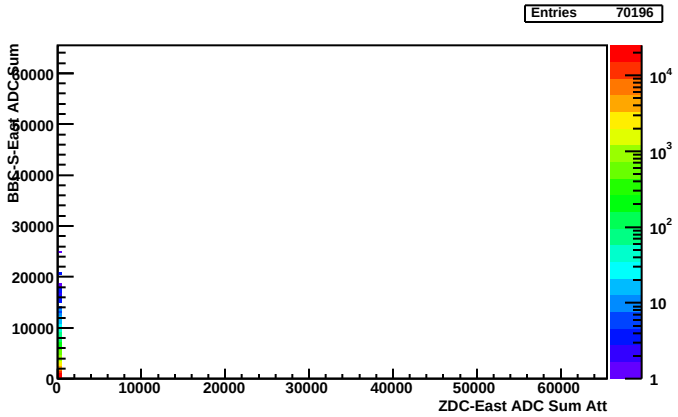

Entries 70196
BBC-L-West ADC Sum
VPD-West ADC Sum

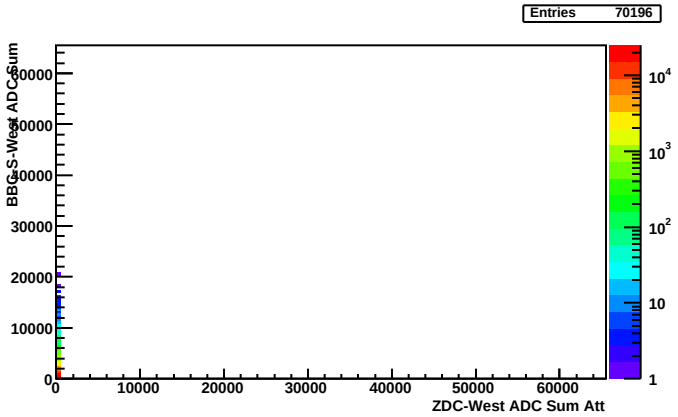

Entries 70196
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

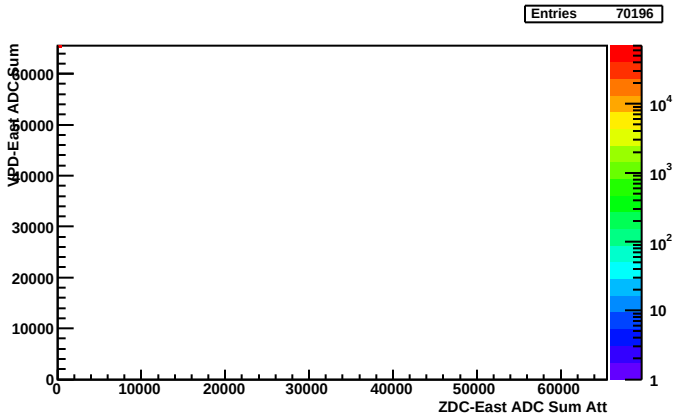

Entries 70196
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

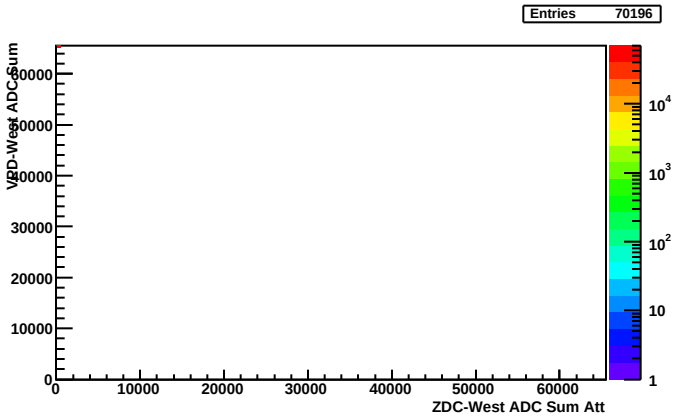

Entries 70196
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 70196
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 70196
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 70196
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 70196
VPD-East ADC Sum
ZDC-East ADC Sum Att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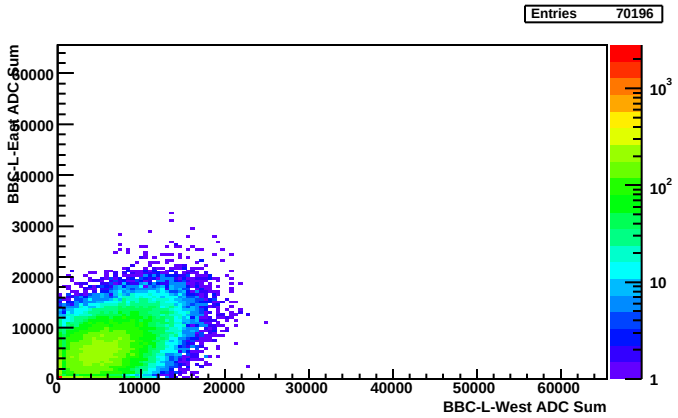
VPD-West ADC Sum
ZDC-West ADC Sum Att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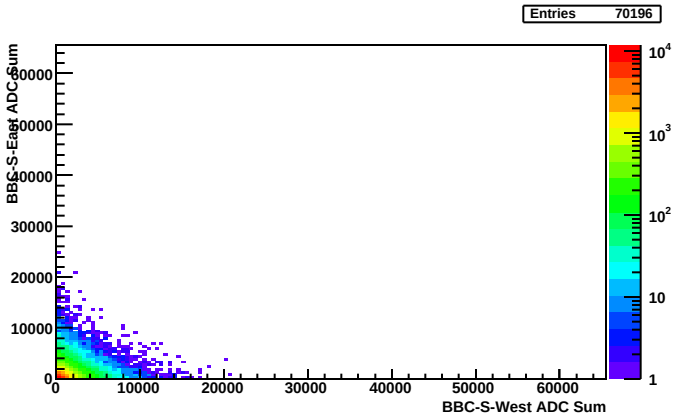
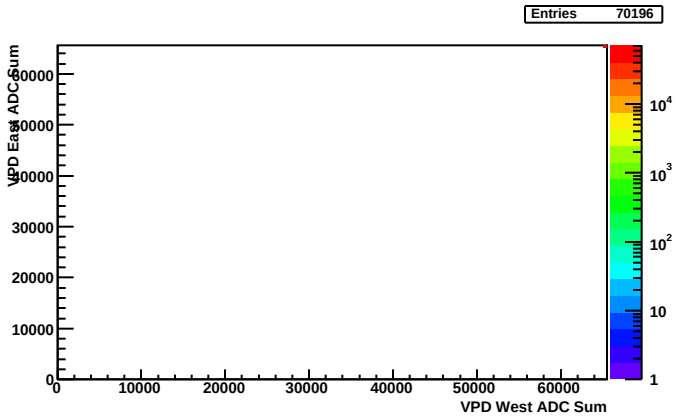
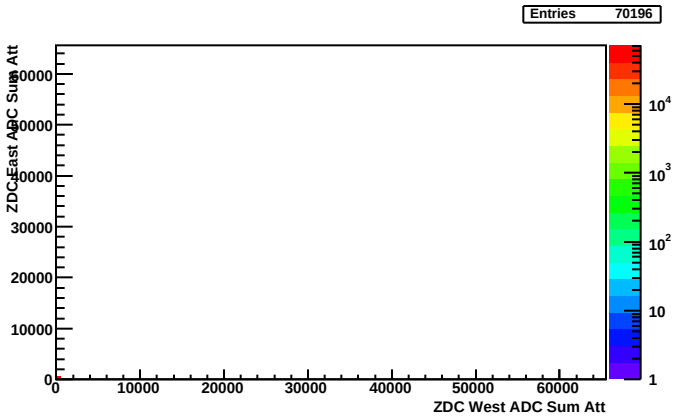
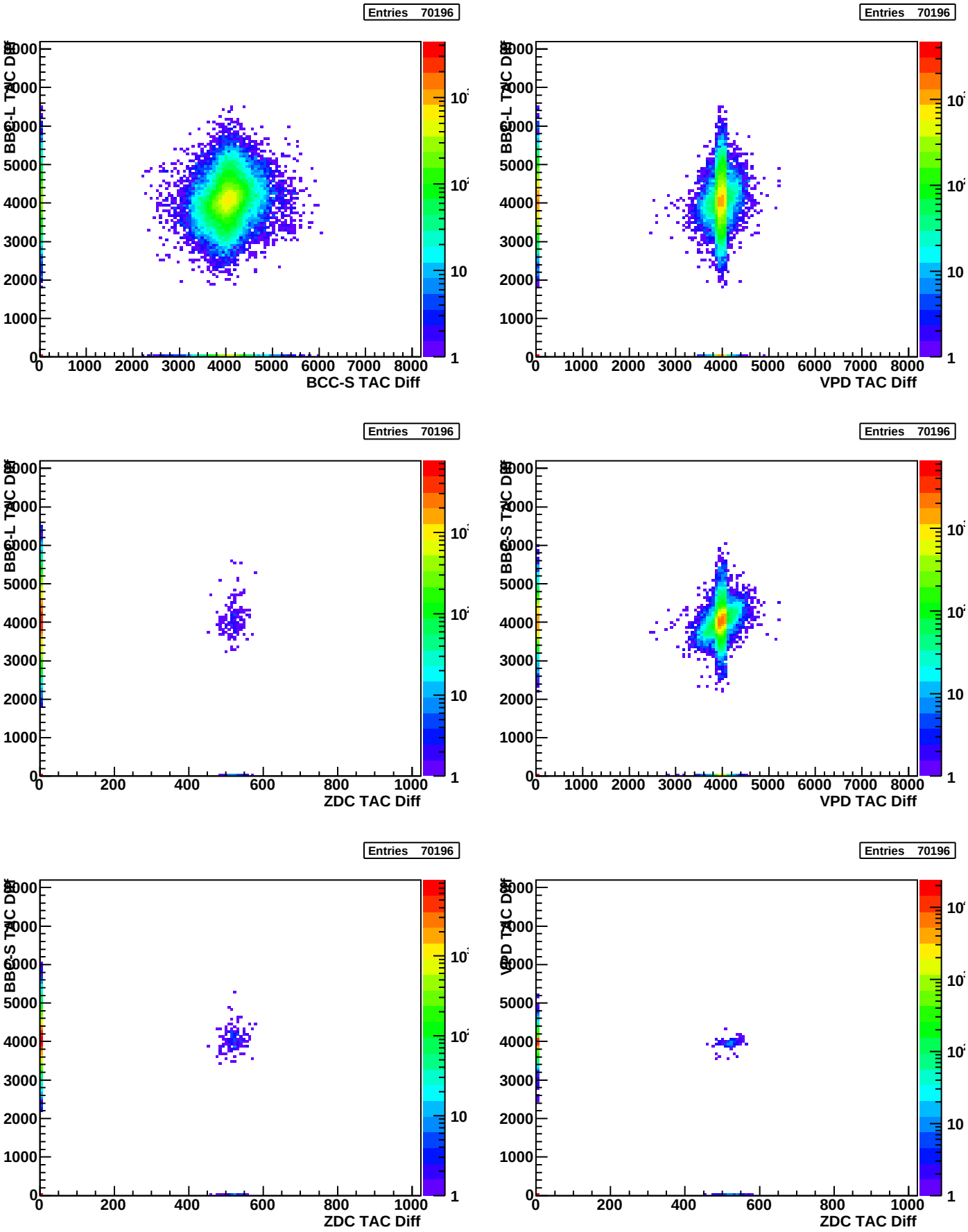
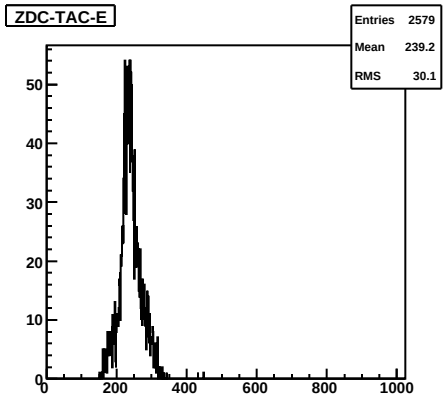
BBC-L-East ADC Sum
BBC-L-West ADC Sum

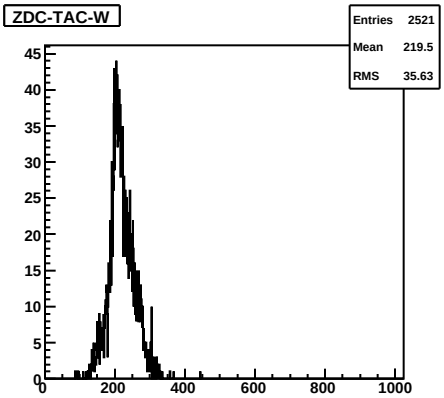

Entries 70196
BBC-S-East ADC Sum
BBC-S-West ADC Sum

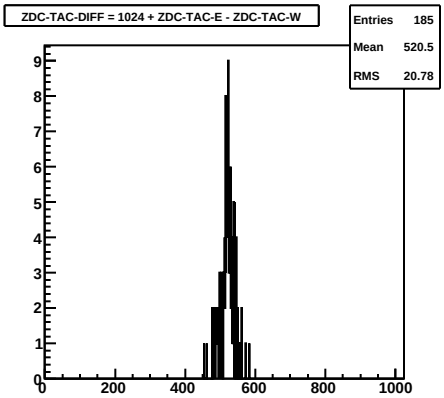

Entries 70196
VPD East ADC Sum
VPD West ADC Sum

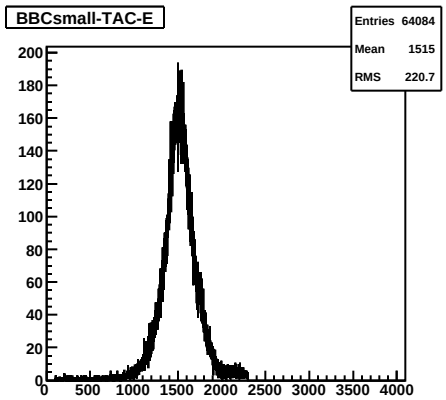

Entries 70196
ZDC-East ADC Sum Att
ZDC West ADC Sum Att

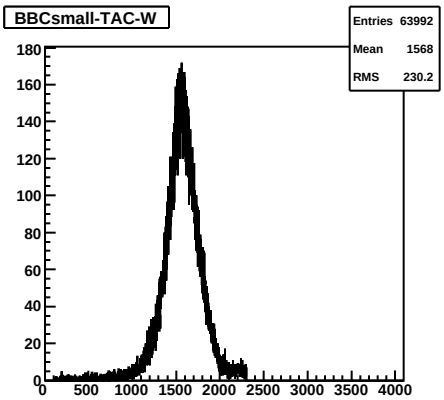

Entries 70196
BBC-L TAC Diff
BCC-S TAC Diff
Entries 70196
BBC-L TAC Diff
VPD TAC Diff
Entries 70196
BBC-L TAC Diff
ZDC TAC Diff
Entries 70196
BBC-S TAC Diff
VPD TAC Diff
Entries 70196
BBC-S TAC Diff
ZDC TAC Diff
Entries 70196
VPD TAC Diff
ZDC TAC Diff

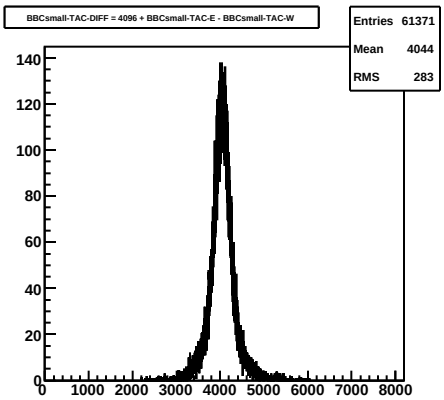

ZDC-TAC-E
Entries 2579
Mean 239.2
RMS 30.1

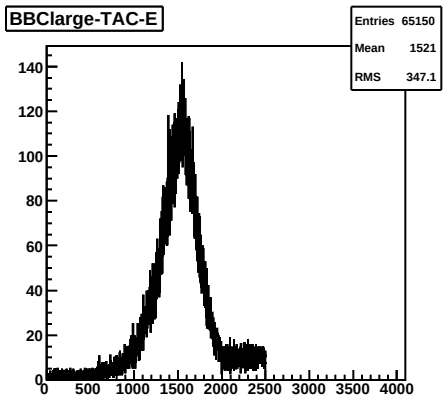

ZDC-TAC-W
Entries 2521
Mean 219.5
RMS 35.63

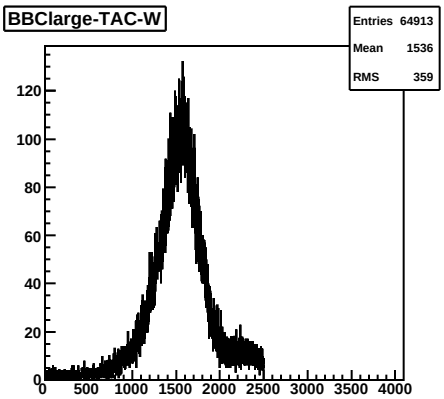

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 185
Mean 520.5
RMS 20.78

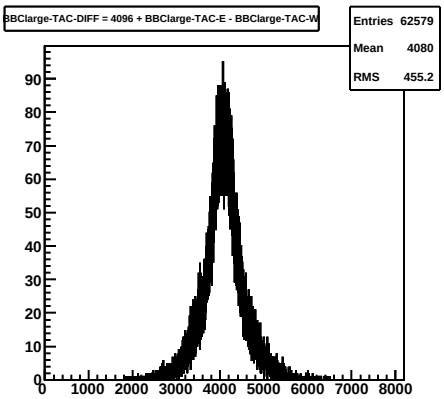

BBCsmall-TAC-E
Entries 64084
Mean 1515
RMS 220.7

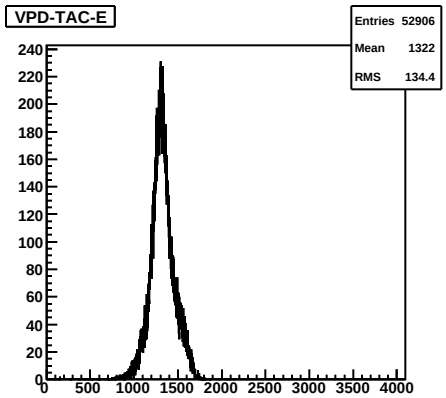

BBCsmall-TAC-W
Entries 63992
Mean 1568
RMS 230.2

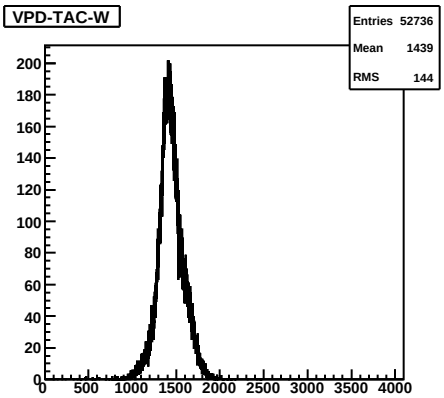

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 61371
Mean 4044
RMS 283

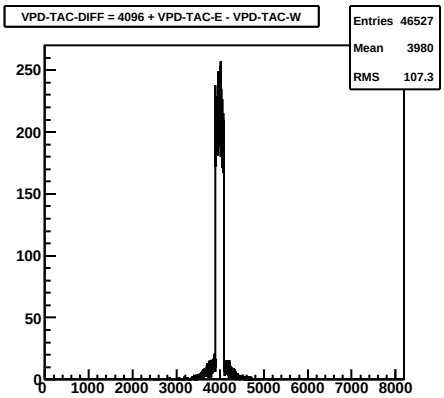

BBClarge-TAC-E
Entries 65150
Mean 1521
RMS 347.1

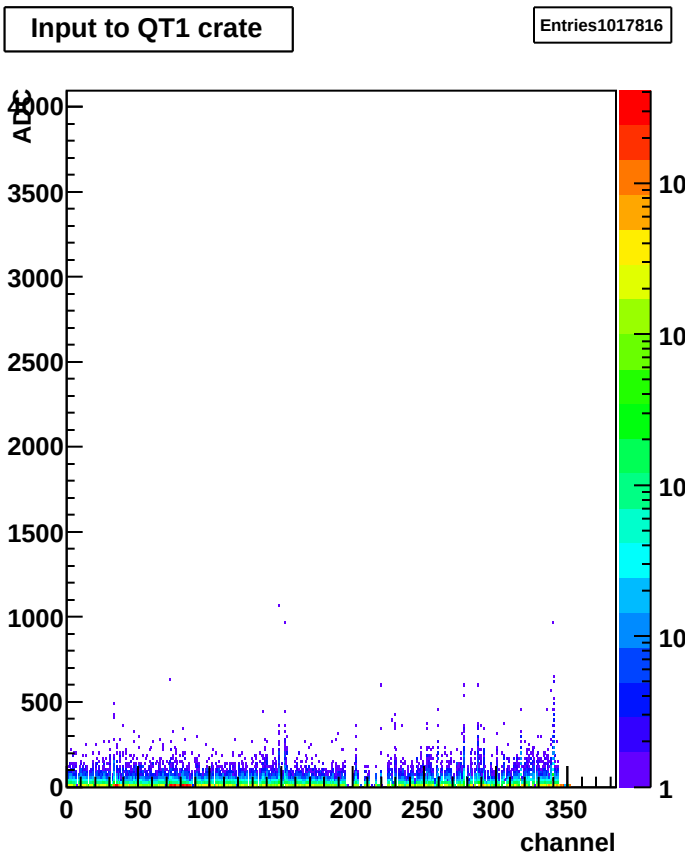

BBClarge-TAC-W
Entries 64913
Mean 1536
RMS 359

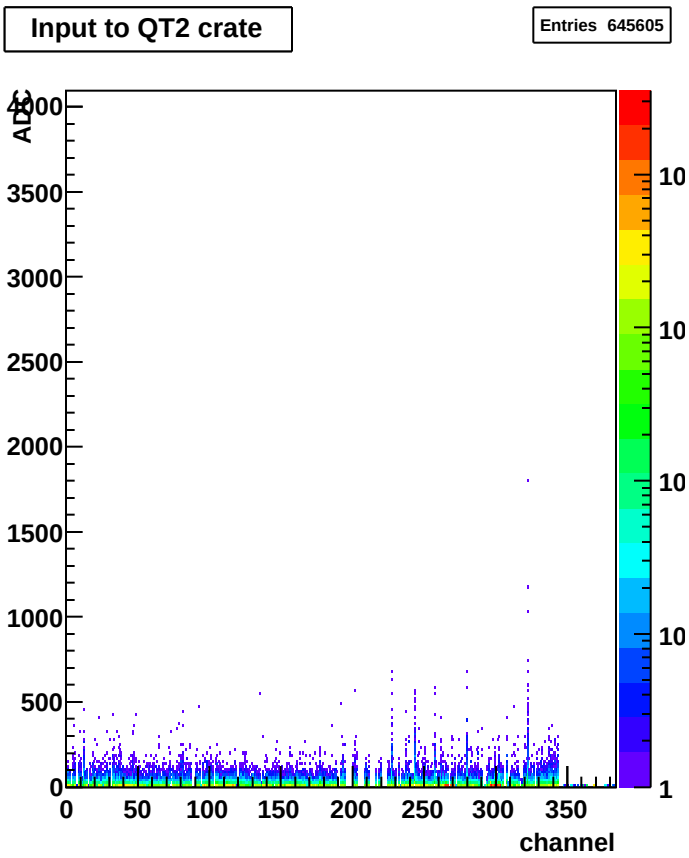

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 62579
Mean 4080
RMS 455.2

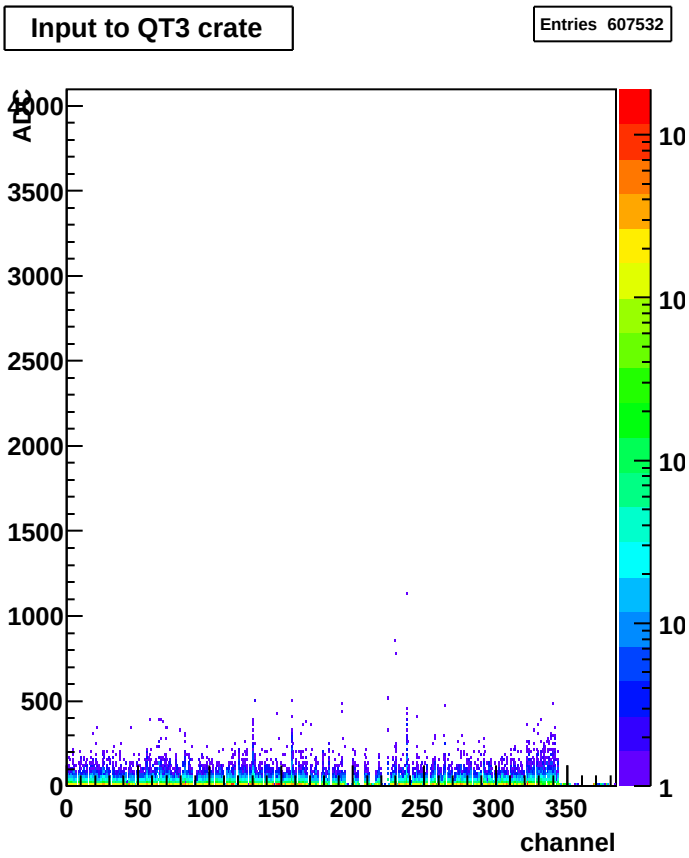

VPD-TAC-E
Entries 52906
Mean 1322
RMS 134.4

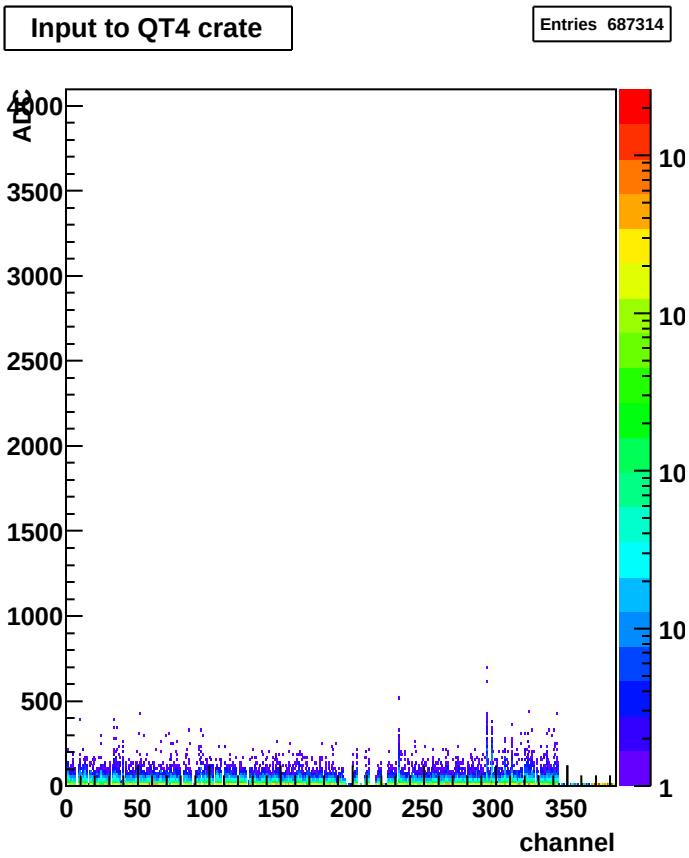

VPD-TAC-W
Entries 52736
Mean 1439
RMS 144

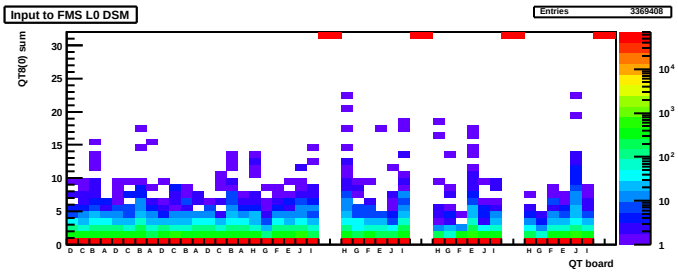

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 46527
Mean 3980
RMS 107.3

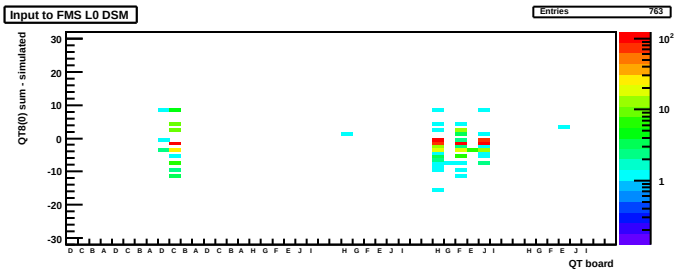

Input to QT1 crate
Entries1017816
ADC
channel

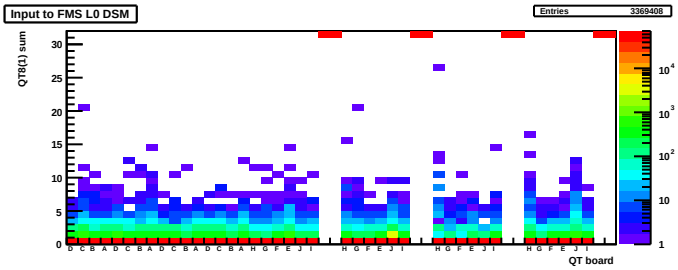

Input to QT2 crate
Entries 645605
ADC
channel

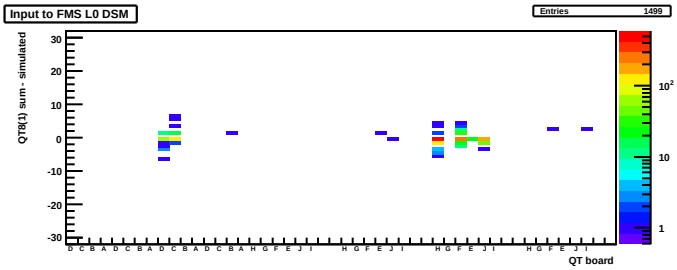

Input to QT3 crate
Entries 607532
ADC
channel

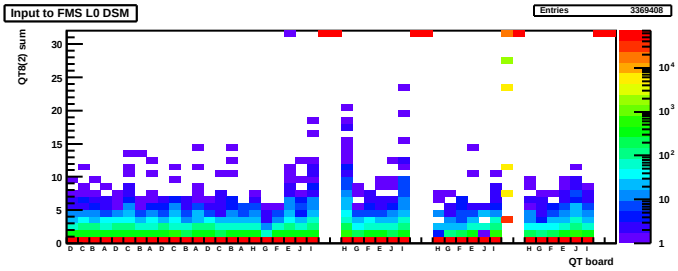

Input to QT4 crate
Entries 687314
ADC
channel

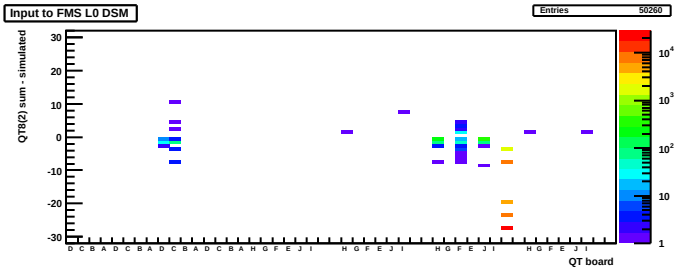

Input to FMS L0 DSM
Entries 3369408
QT8(0) sum
QT board

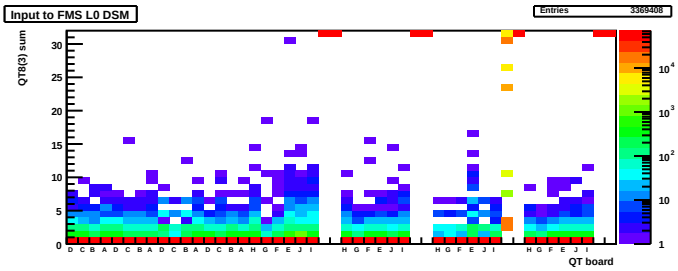

Input to FMS L0 DSM
Entries 763
QT8(0) sum - simulated
QT board

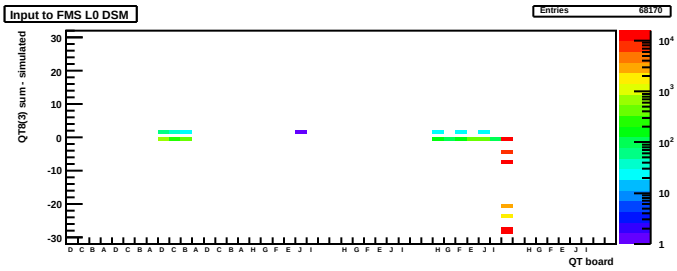

Input to FMS L0 DSM
Entries 3369408
QT8(1) sum
QT board

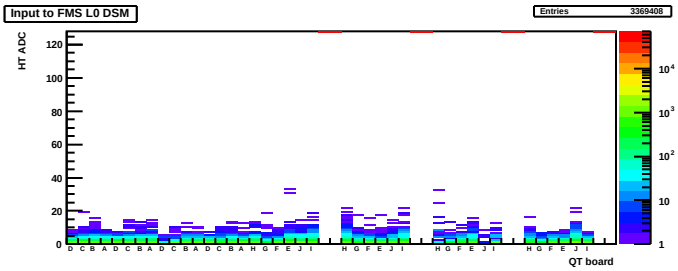

Input to FMS L0 DSM
Entries 1499
QT8(1) sum - simulated
QT board

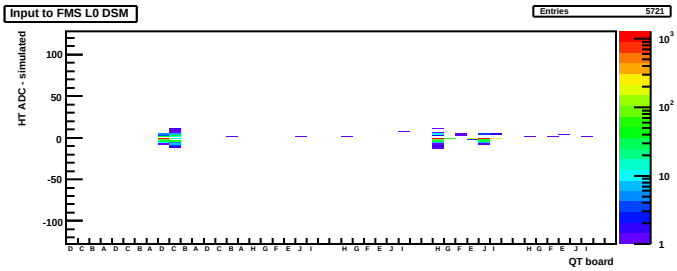

Input to FMS L0 DSM
Entries 3369408
QT8(2) sum
QT board

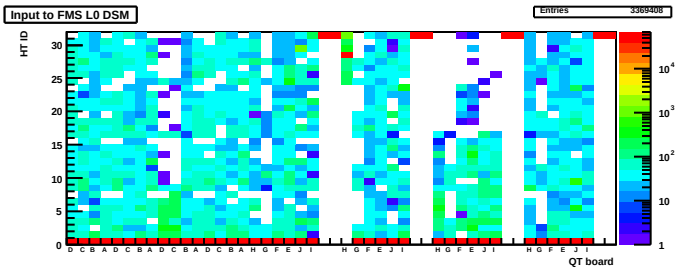

Input to FMS L0 DSM
Entries 50260
QT8(2) sum - simulated
QT board

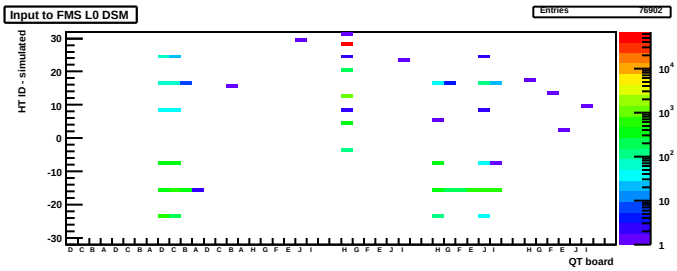

Input to FMS L0 DSM
Entries 3369408
QT8(3) sum
QT board

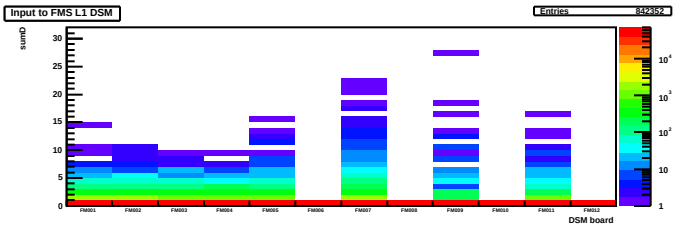

Input to FMS L0 DSM
Entries 68170
QT8(3) sum - simulated
QT board

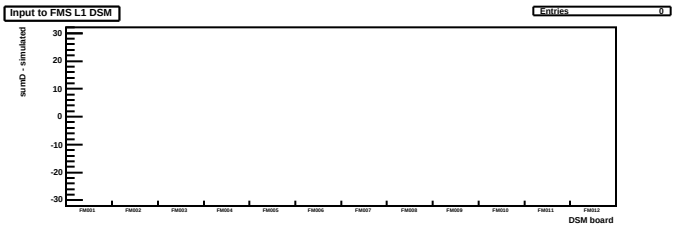

Input to FMS L0 DSM
Entries 3369408
HT ADC
QT board

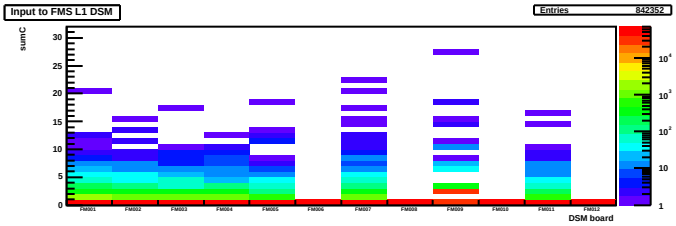

Input to FMS L0 DSM
Entries 5721
HT ADC - simulated
QT board

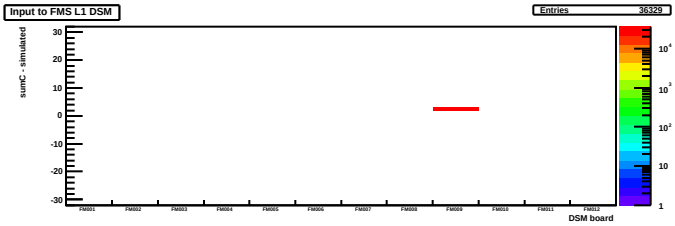

Input to FMS L0 DSM
Entries 3369408
HT ID
QT board

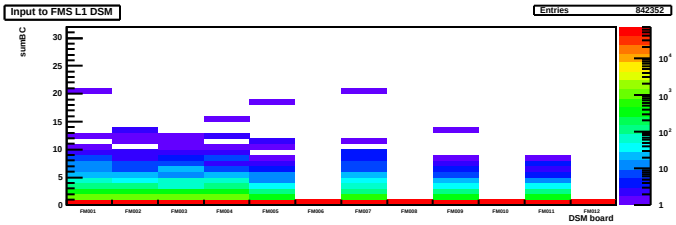

Input to FMS L0 DSM
Entries 76902
HT ID - simulated
QT board

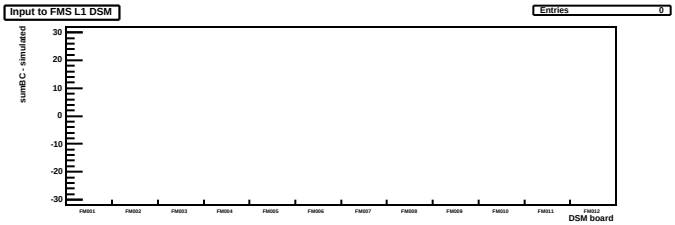

Input to FMS L1 DSM
Entries 842352
sumD
DSM board

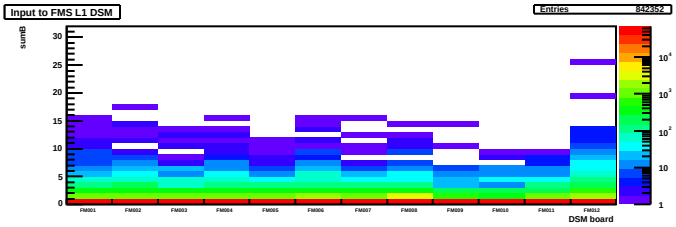

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

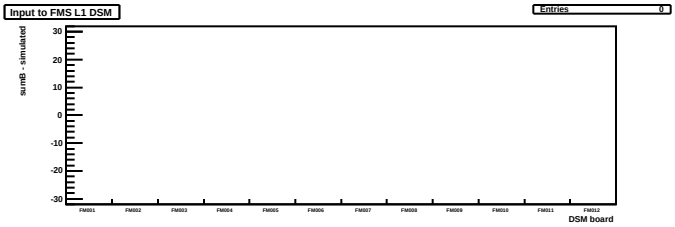

Input to FMS L1 DSM
Entries 842352
sumC
DSM board

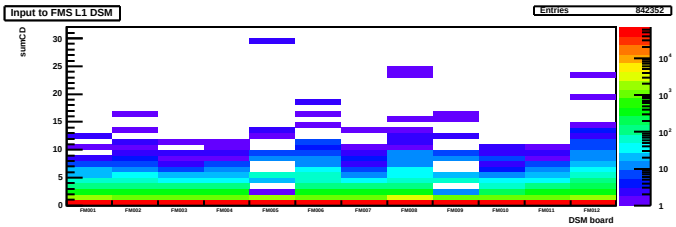

Input to FMS L1 DSM
Entries 36329
sumC - simulated
DSM board

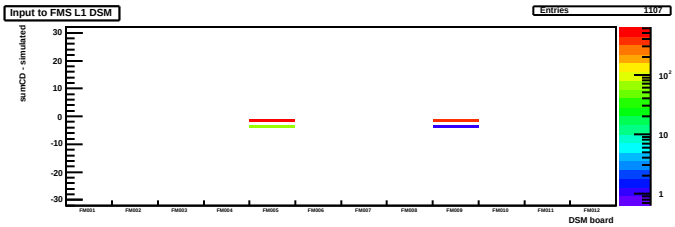

Input to FMS L1 DSM
Entries 842352
sumBC
DSM board

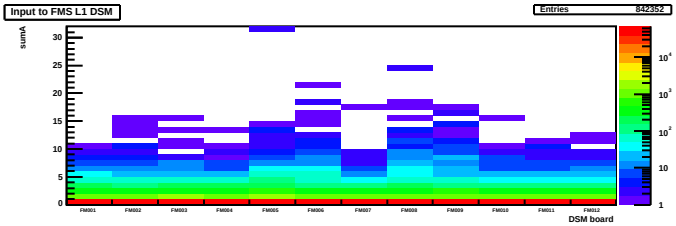

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

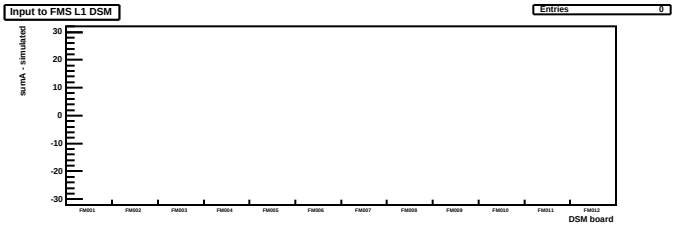

Input to FMS L1 DSM
Entries 842352
sumB
DSM board

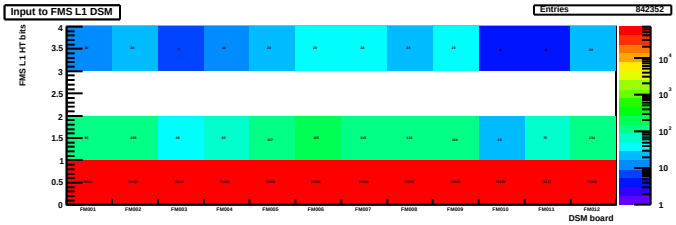

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

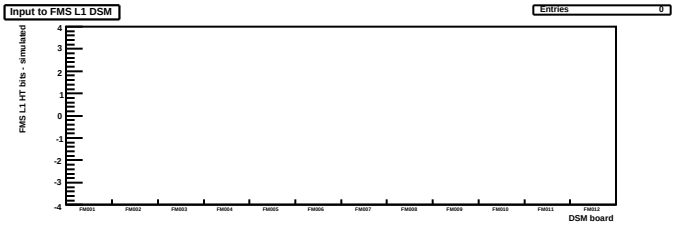

Input to FMS L1 DSM
Entries 842352
sumCD
DSM board

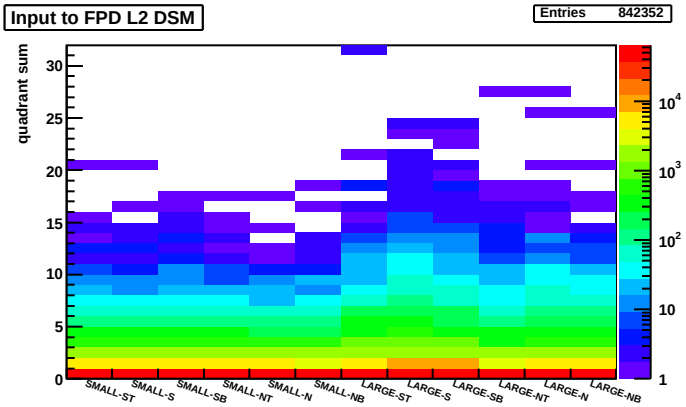

Input to FMS L1 DSM
Entries 1107
sumCD - simulated
DSM board

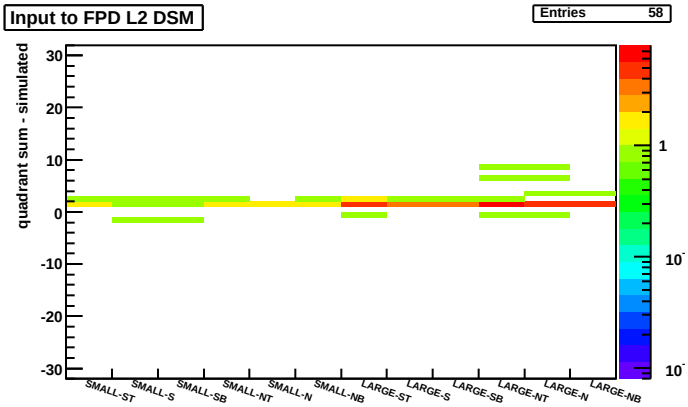

Input to FMS L1 DSM
Entries 842352
sumA
DSM board

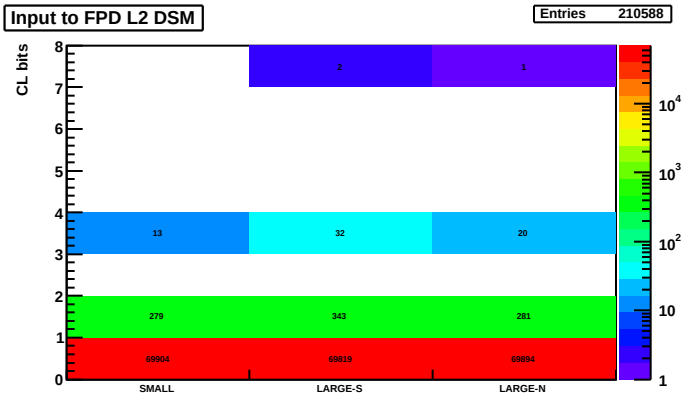

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

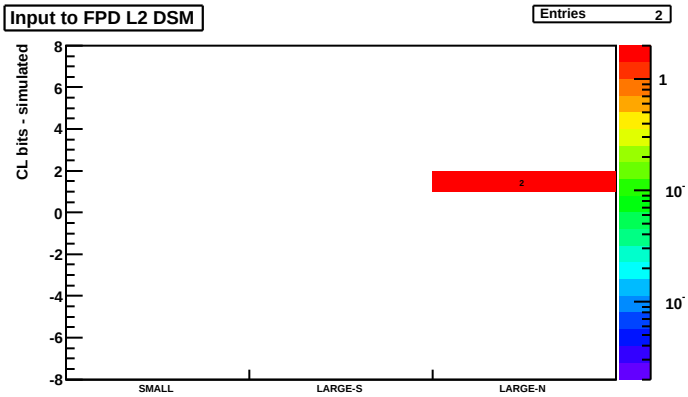

Input to FMS L1 DSM
Entries 842352
FMS L1 HT bits
DSM board

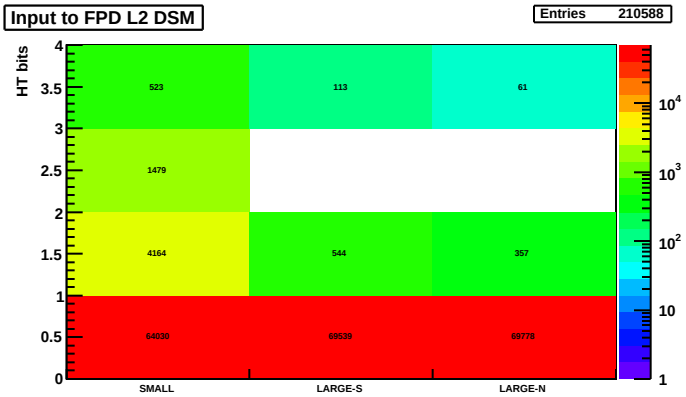

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

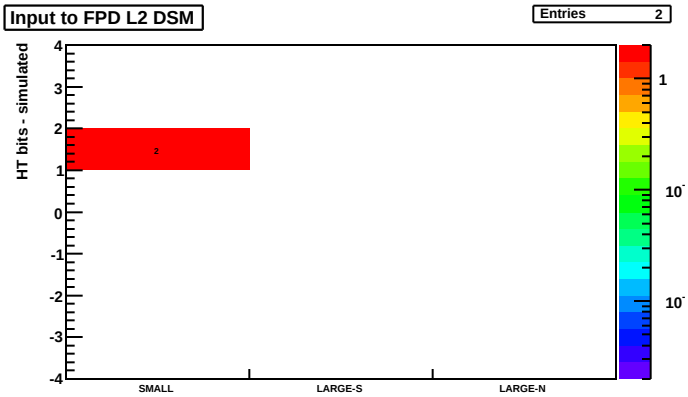

Input to FPD L2 DSM
Entries 842352
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

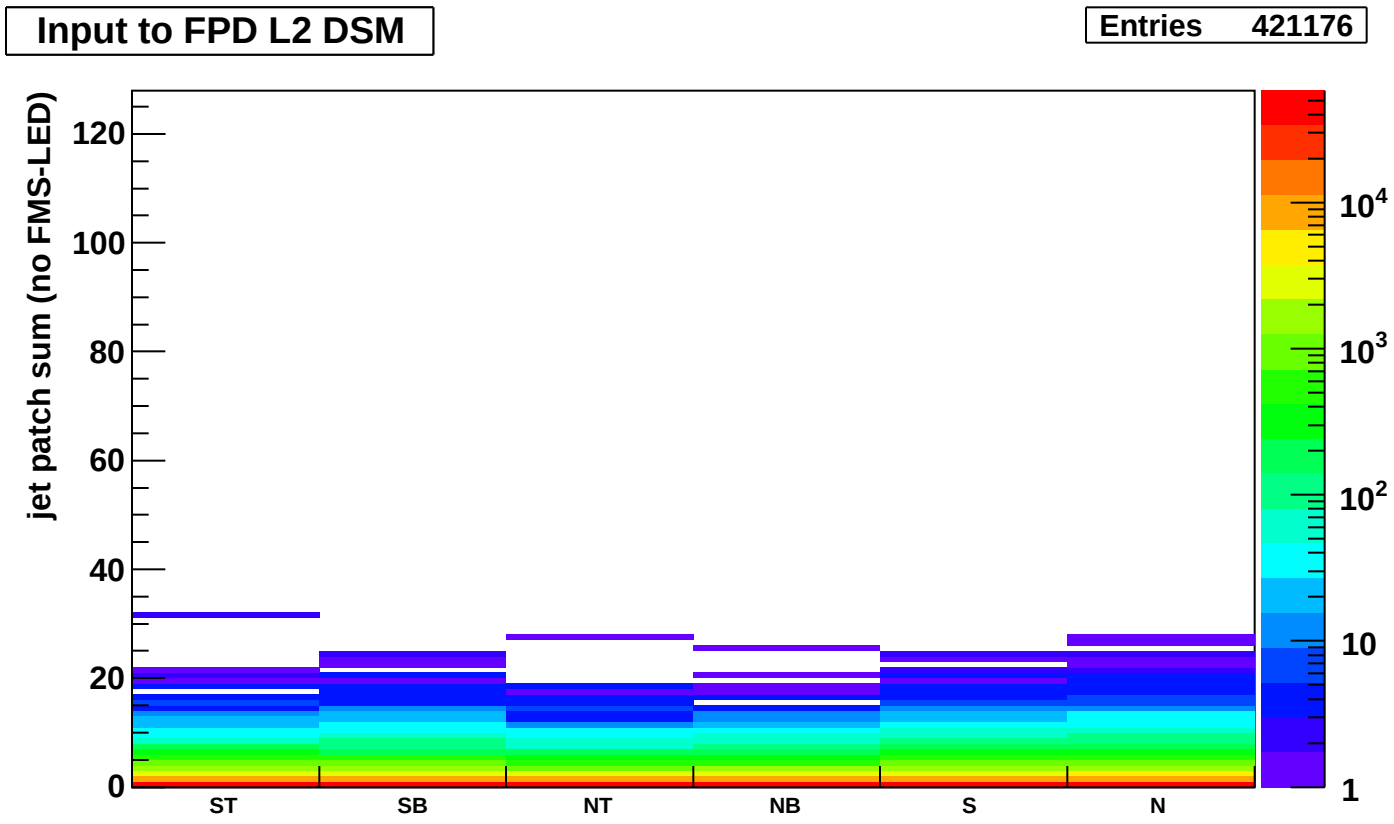

Input to FPD L2 DSM
Entries 58
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

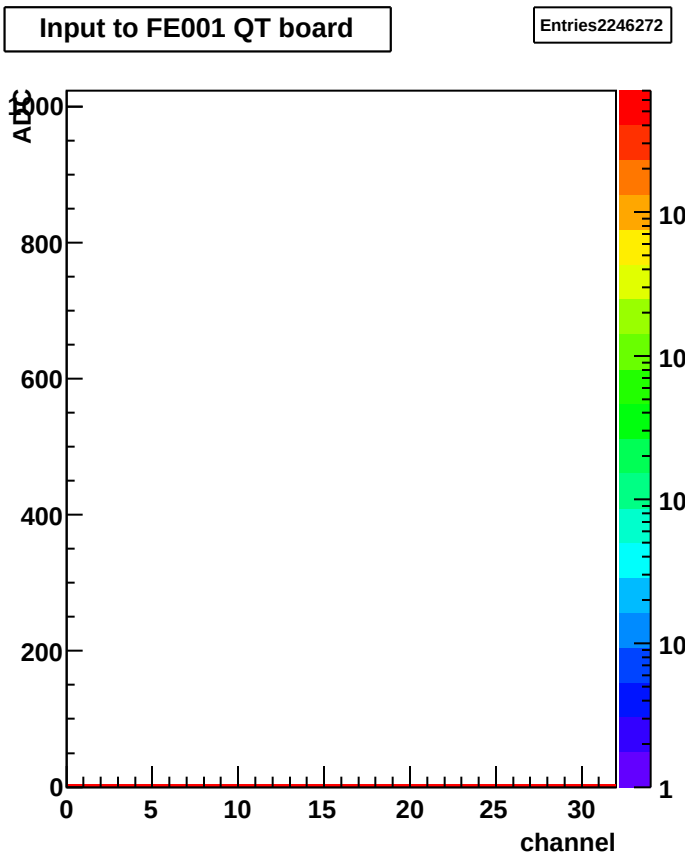

Input to FPD L2 DSM
Entries 210588
CL bits
2
1
13
32
20
279
343
281
69904
69819
69894
SMALL
LARGE-S
LARGE-N

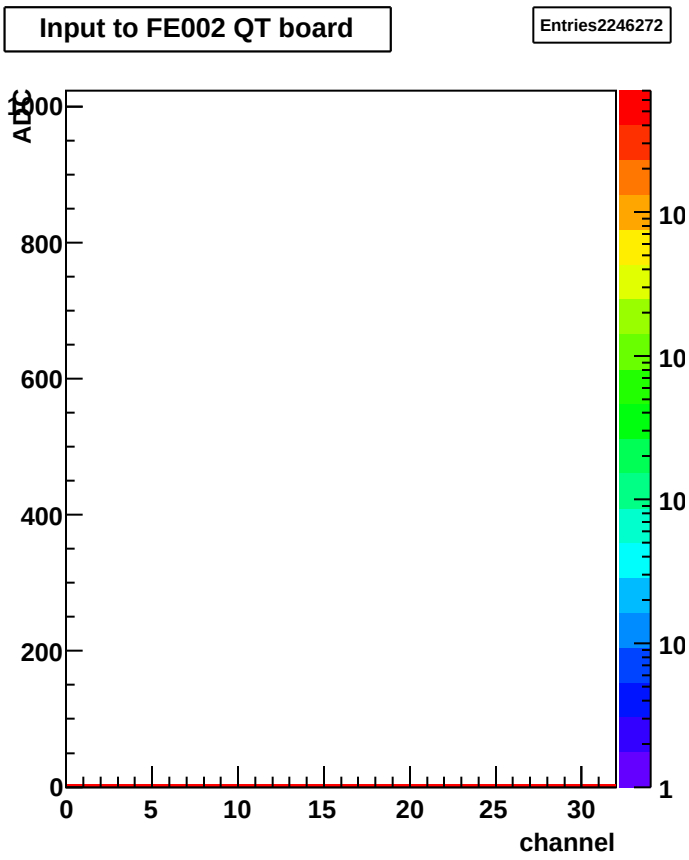

Input to FPD L2 DSM
Entries 2
CL bits - simulated
2
SMALL
LARGE-S
LARGE-N

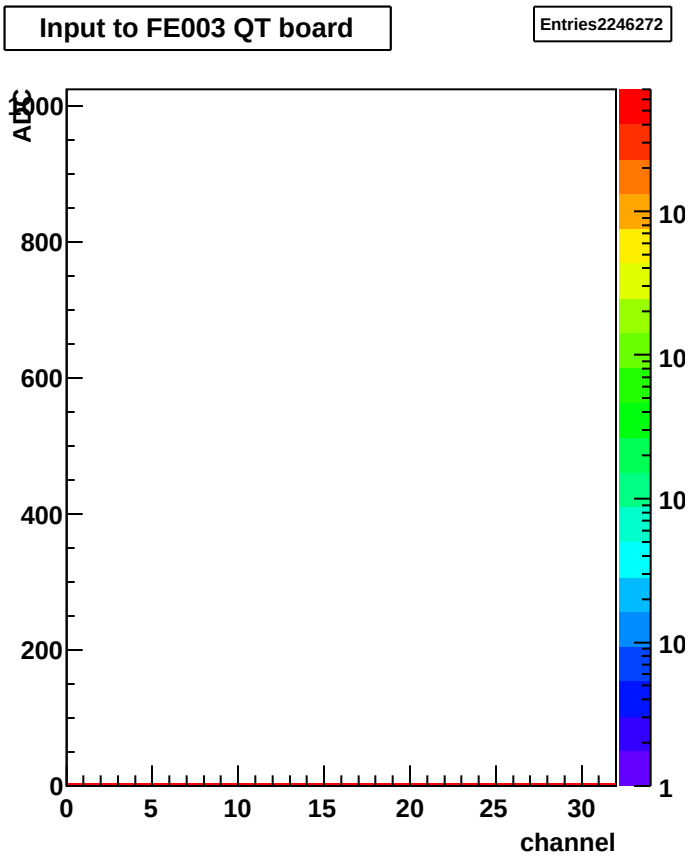

Input to FPD L2 DSM
Entries 210588
HT bits
523
113
61
1479
4164
544
357
64030
69539
69778
SMALL
LARGE-S
LARGE-N

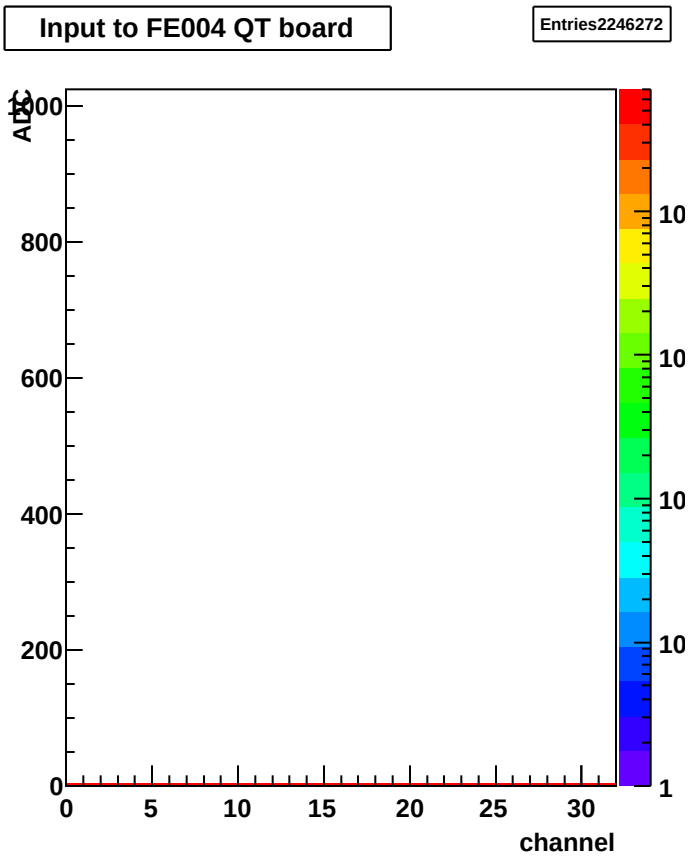

Input to FPD L2 DSM
Entries 2
HT bits - simulated
2
SMALL
LARGE-S
LARGE-N

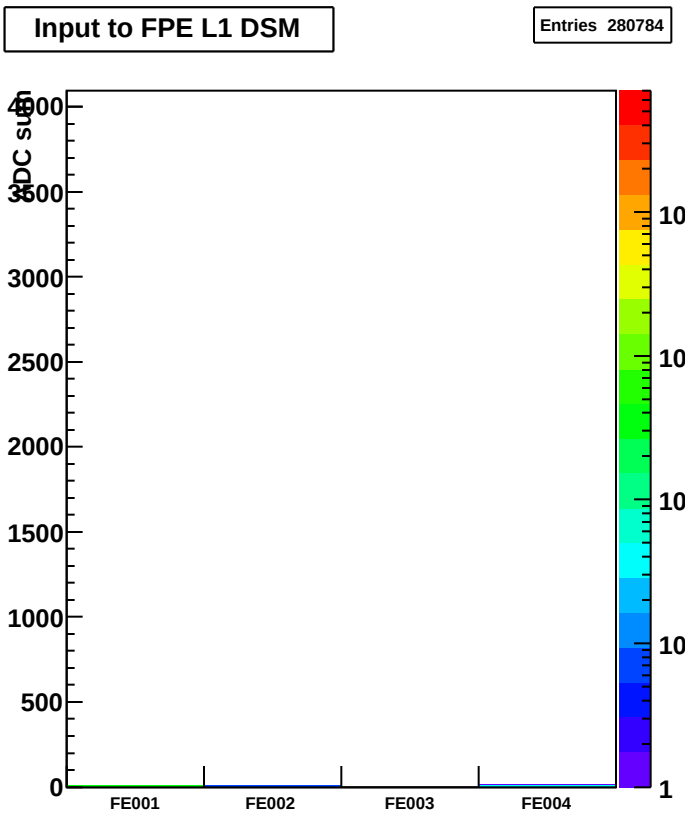

Input to FPD L2 DSM
Entries 421176
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

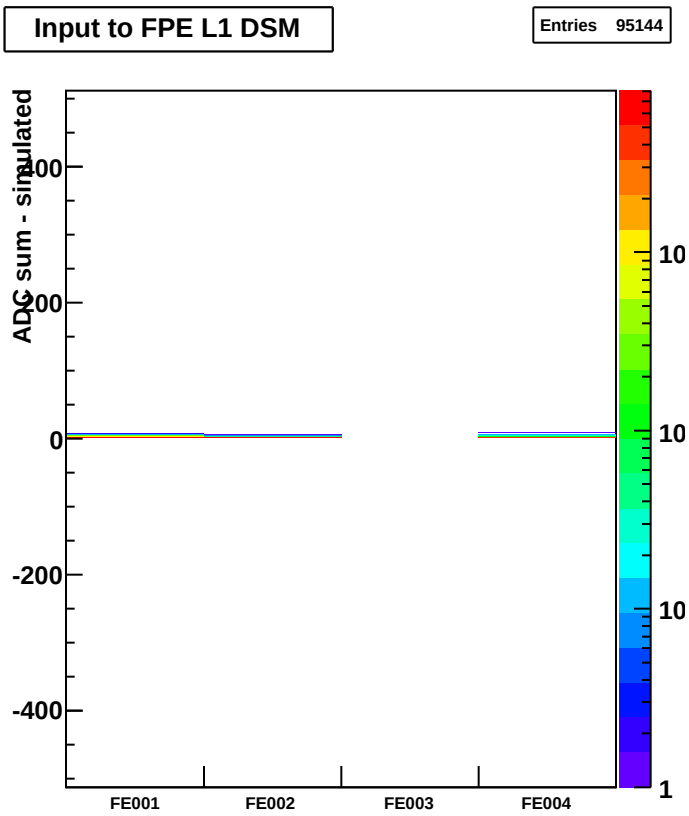

Input to FE001 QT board
Entries2246272
ADC
channel

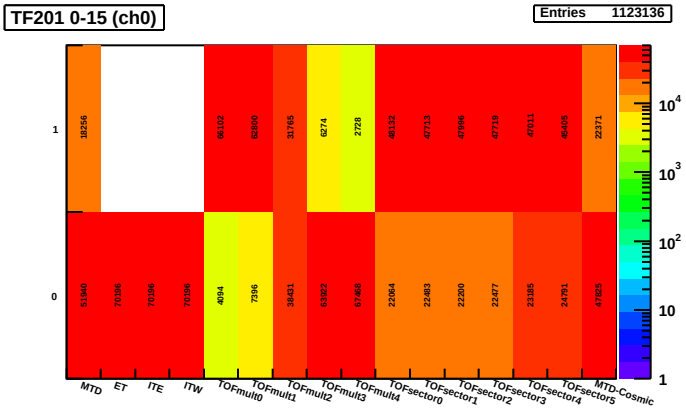

Input to FE002 QT board
Entries2246272
ADC
channel

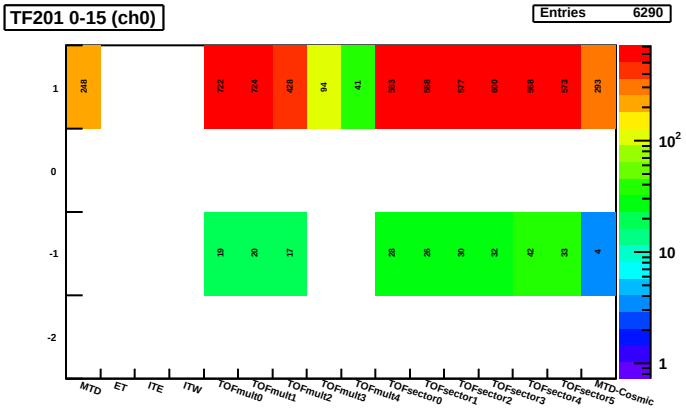

Input to FE003 QT board
Entries2246272
ADC
channel

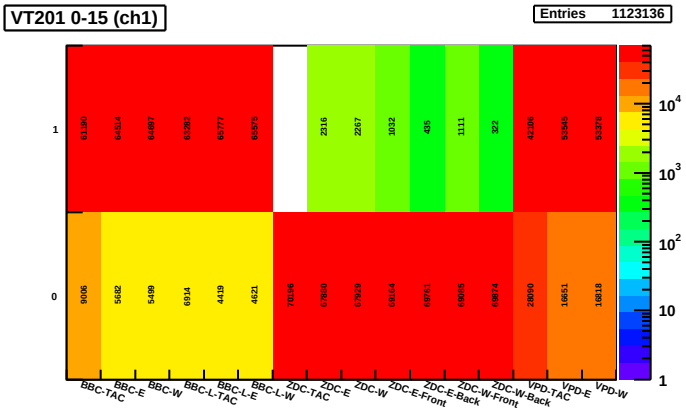

Input to FE004 QT board
Entries2246272
ADC
channel

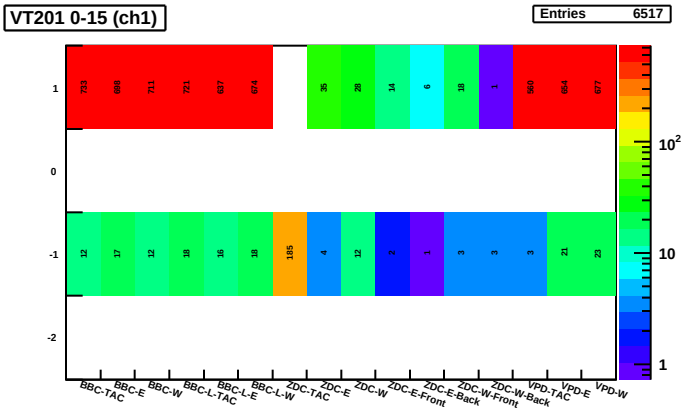

Input to FPE L1 DSM
Entries 280784
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

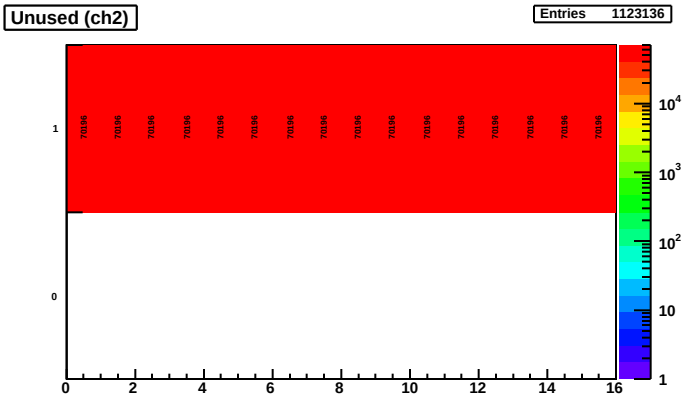

Input to FPE L1 DSM
Entries 95144
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
1

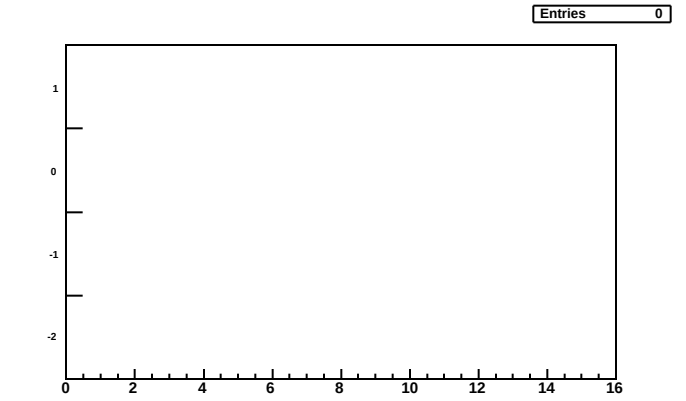

TF201 0-15 (ch0)
Entries 1123136
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

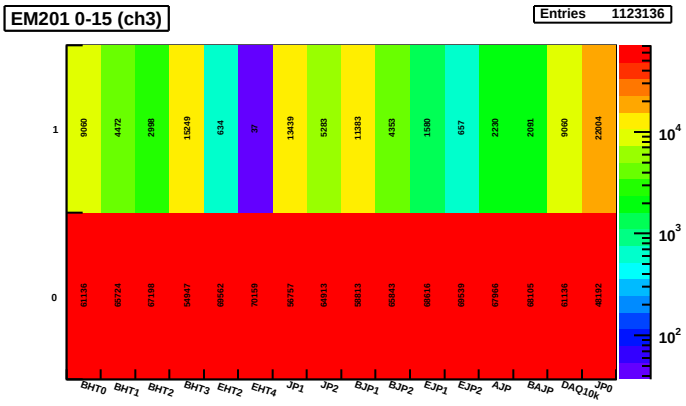

TF201 0-15 (ch0)
Entries 6290
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

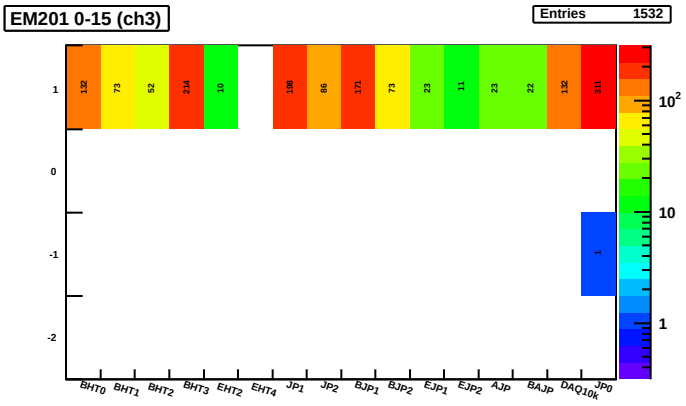

VT201 0-15 (ch1)
Entries 1123136
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 6517
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

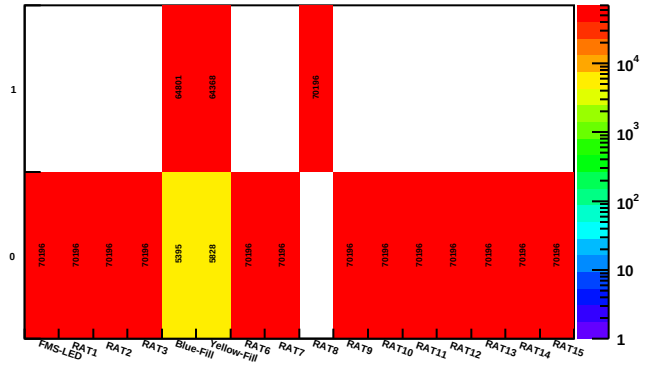

Unused (ch2)
Entries 1123136

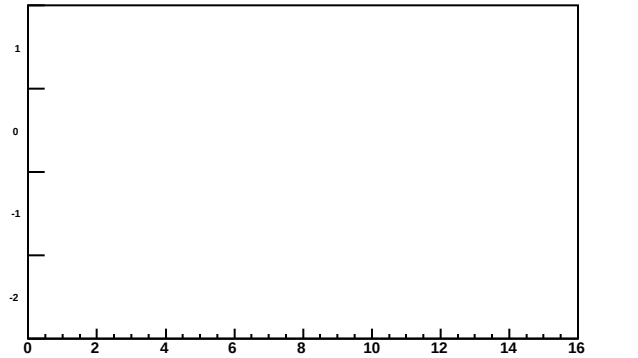

Entries 0


EM201 0-15 (ch3)
Entries 1123136
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

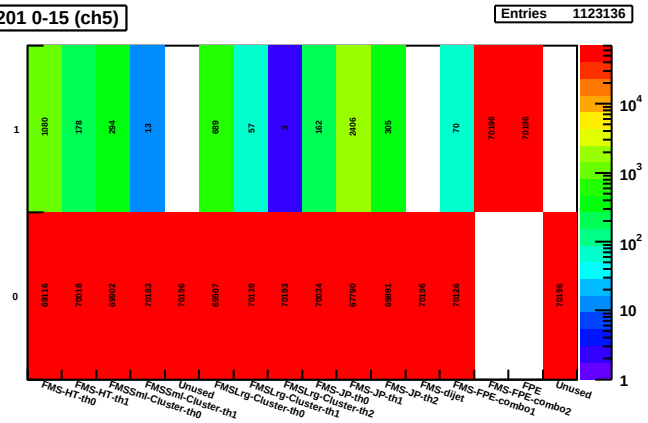

EM201 0-15 (ch3)
Entries 1532
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

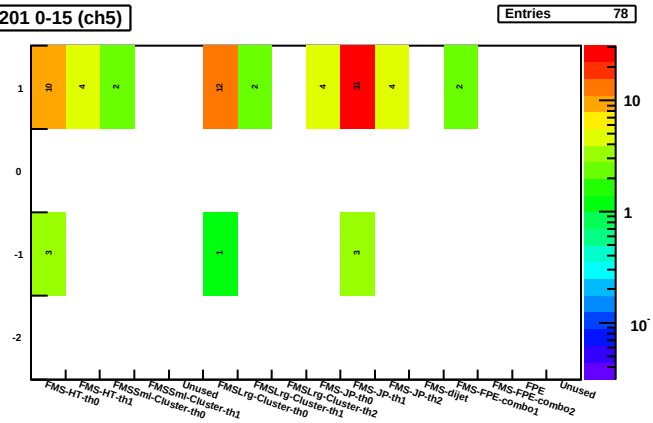




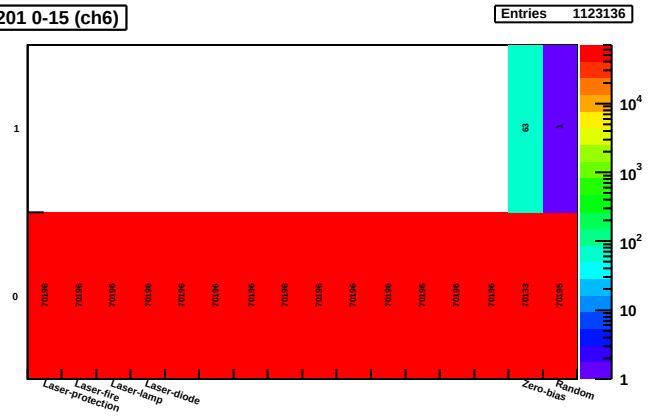
FP201 0-15 (ch5)

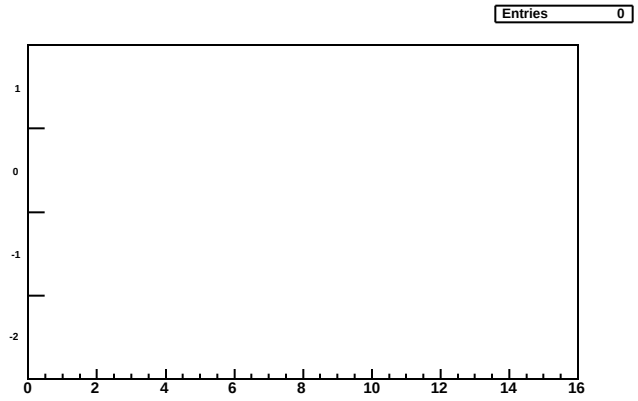
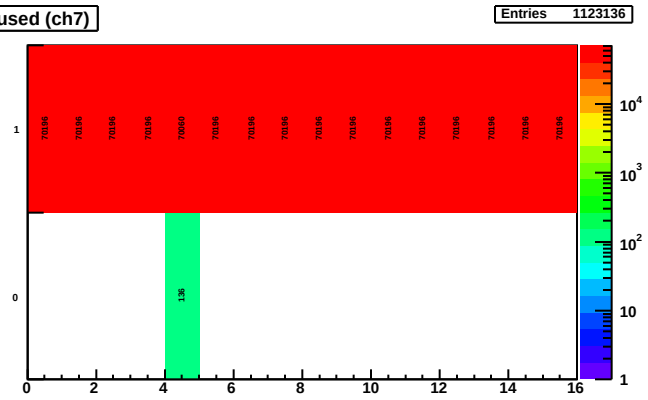
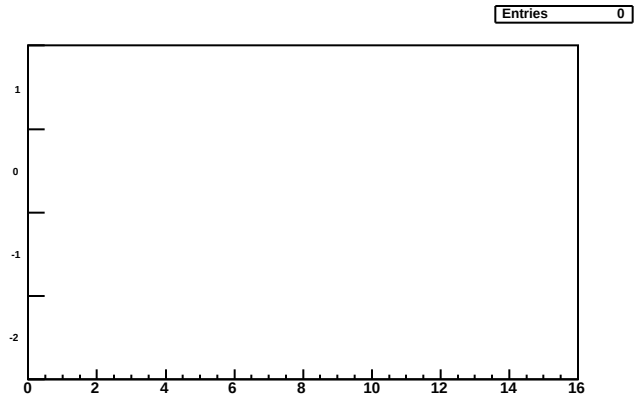


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)