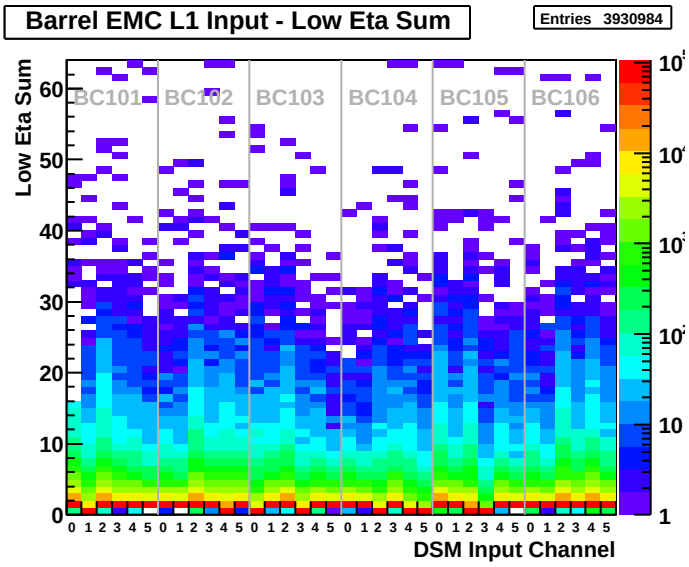
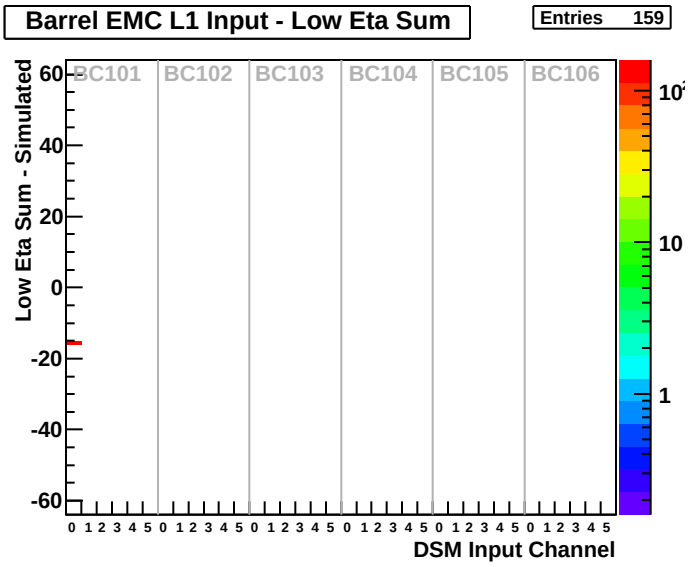
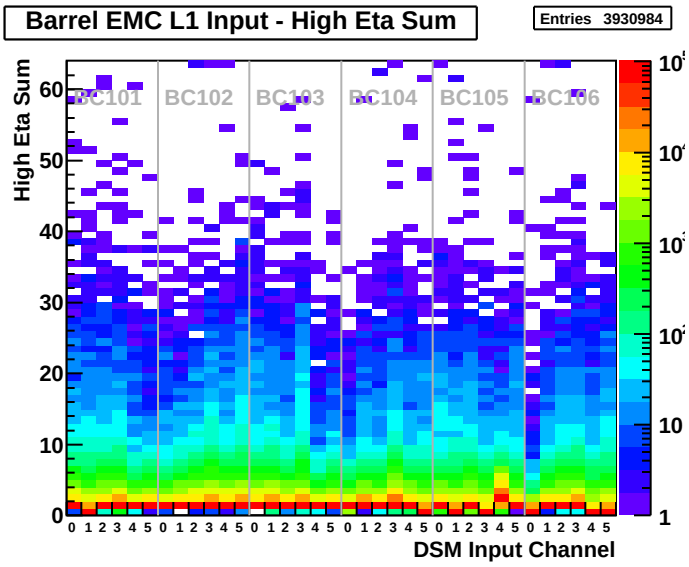
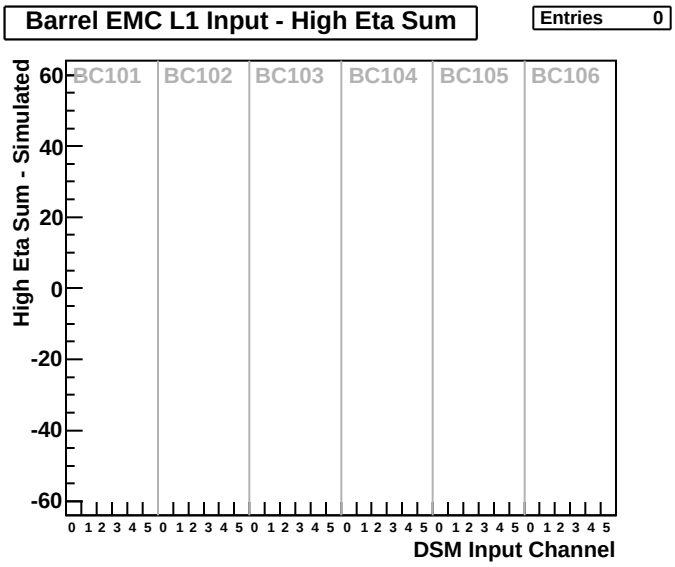
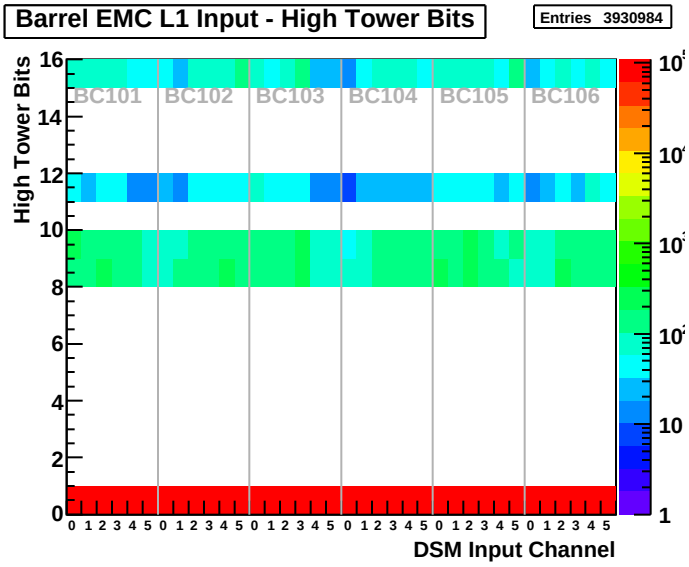
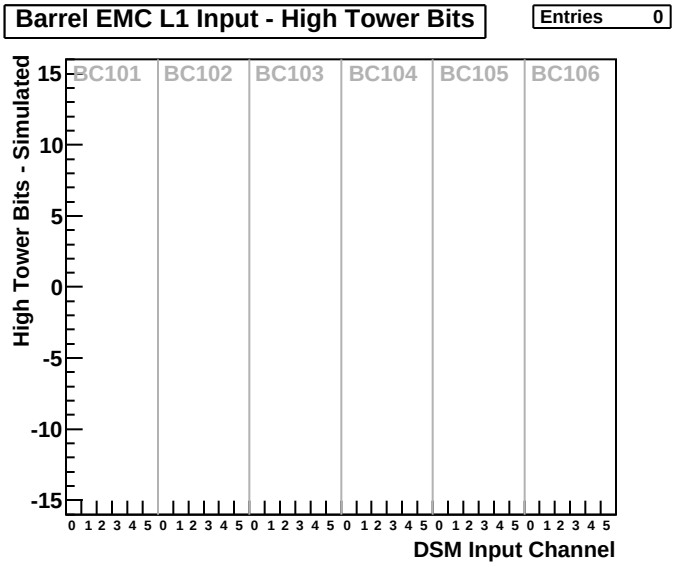

Barrel EMC L1 Input - Low Eta Sum
Entries 3930984
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

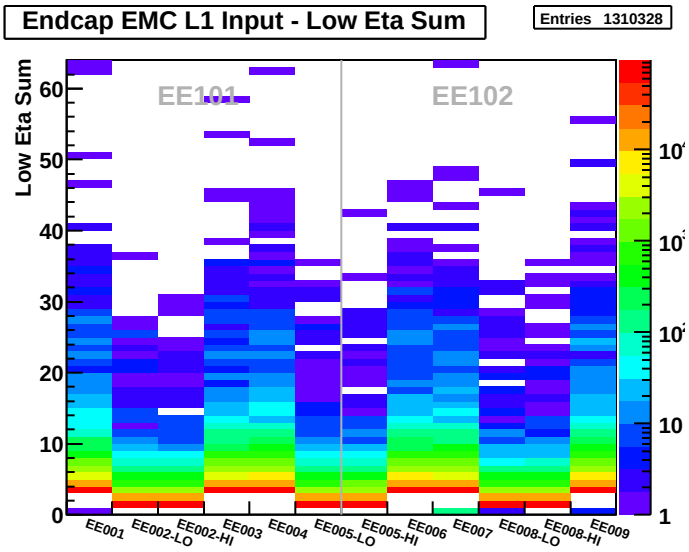

Barrel EMC L1 Input - Low Eta Sum
Entries 159
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

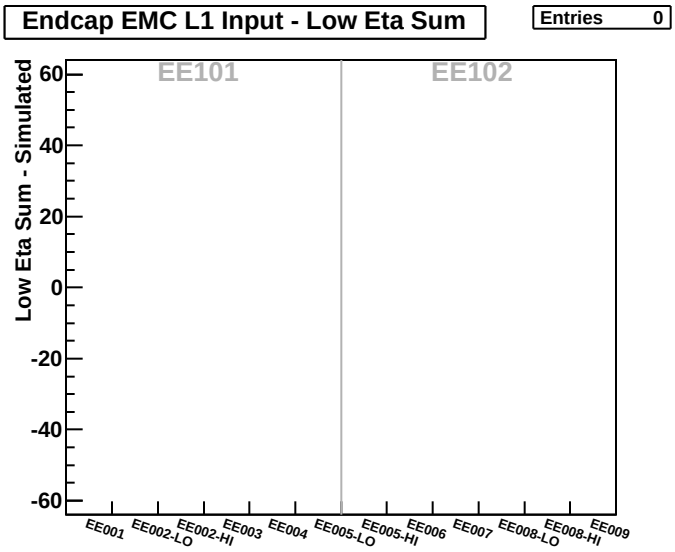

Barrel EMC L1 Input - High Eta Sum
Entries 3930984
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

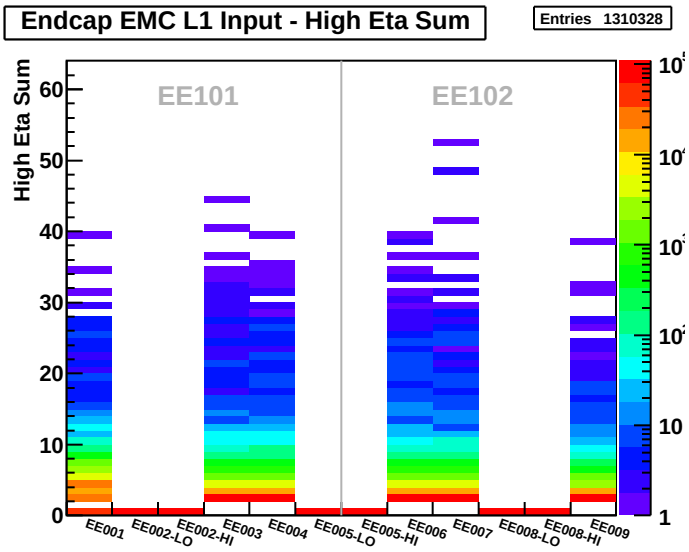

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

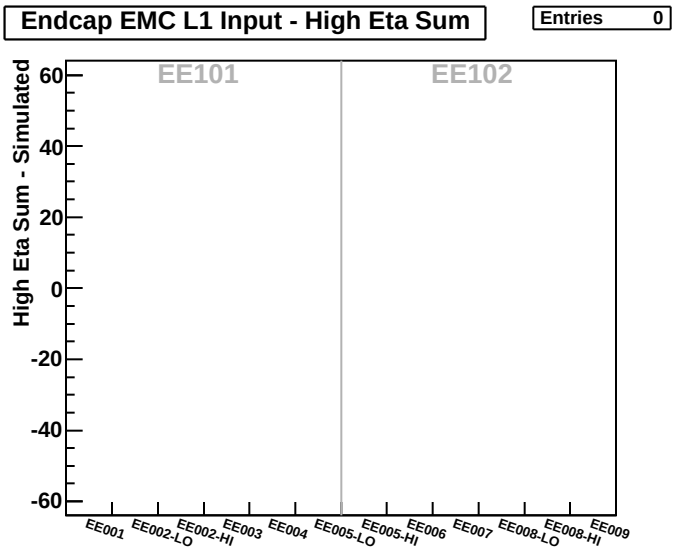

Barrel EMC L1 Input - High Tower Bits
Entries 3930984
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

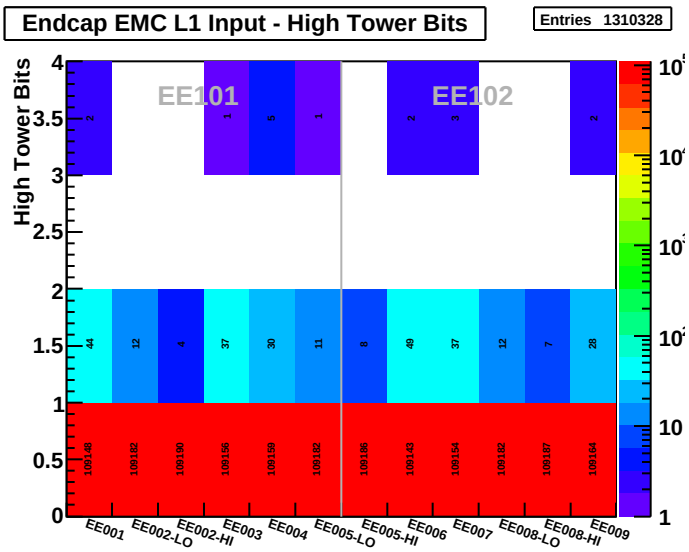

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

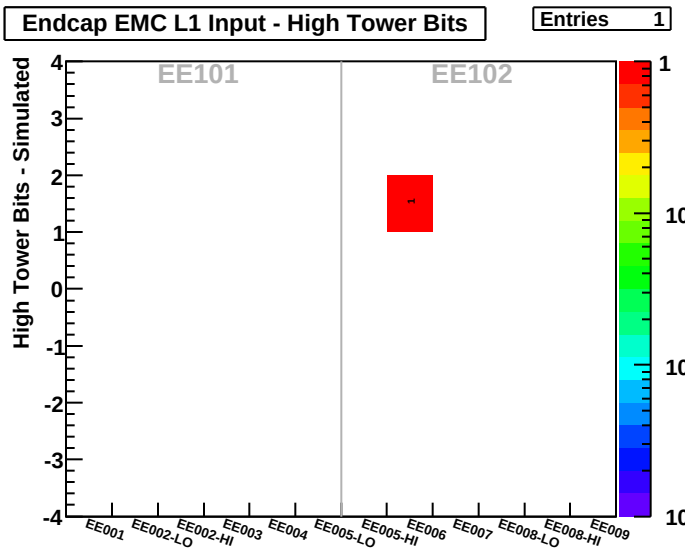

Endcap EMC L1 Input - Low Eta Sum
Entries 1310328
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

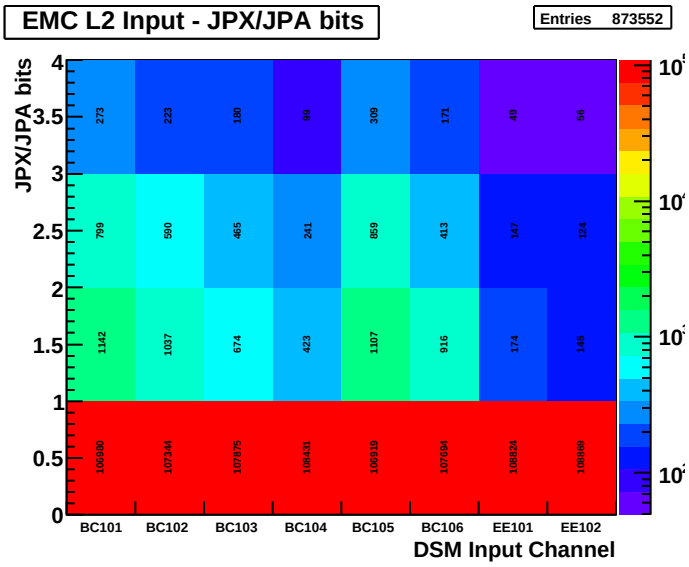

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

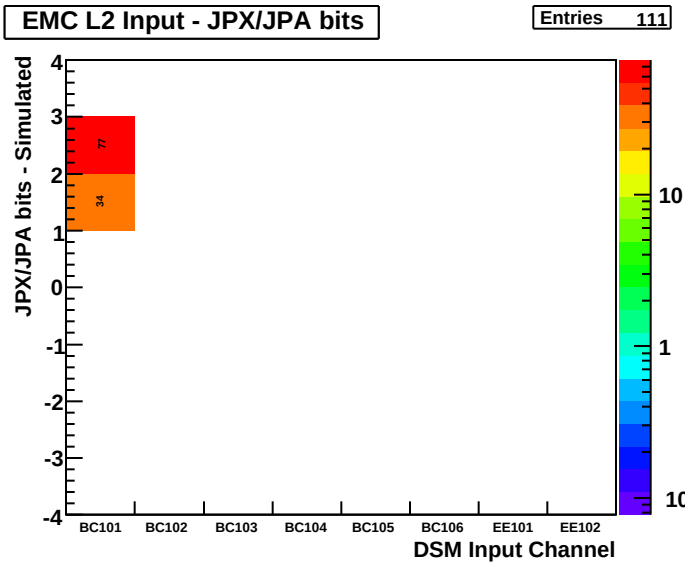

Endcap EMC L1 Input - High Eta Sum
Entries 1310328
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

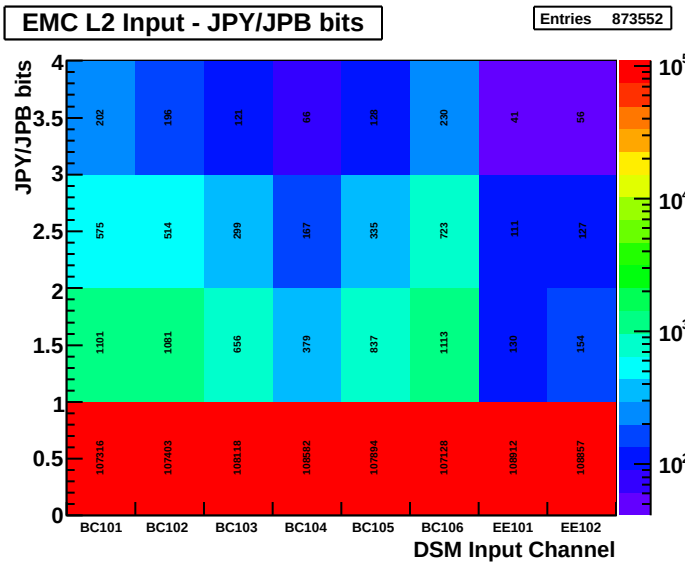

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

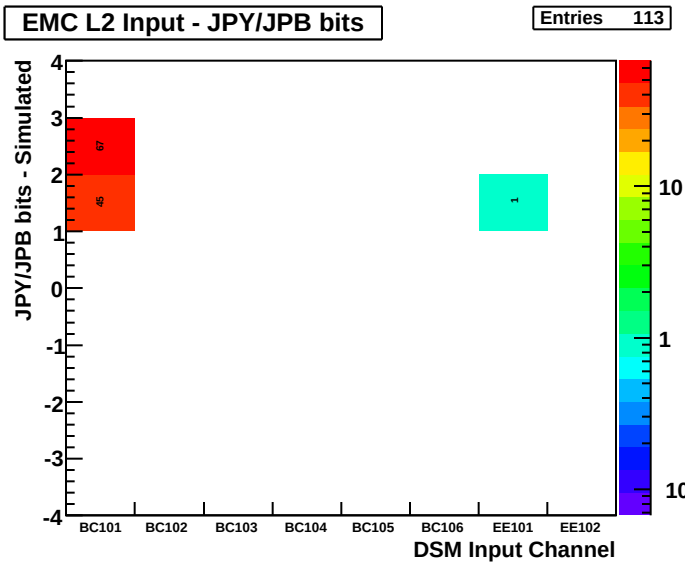

Endcap EMC L1 Input - High Tower Bits
Entries 1310328
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

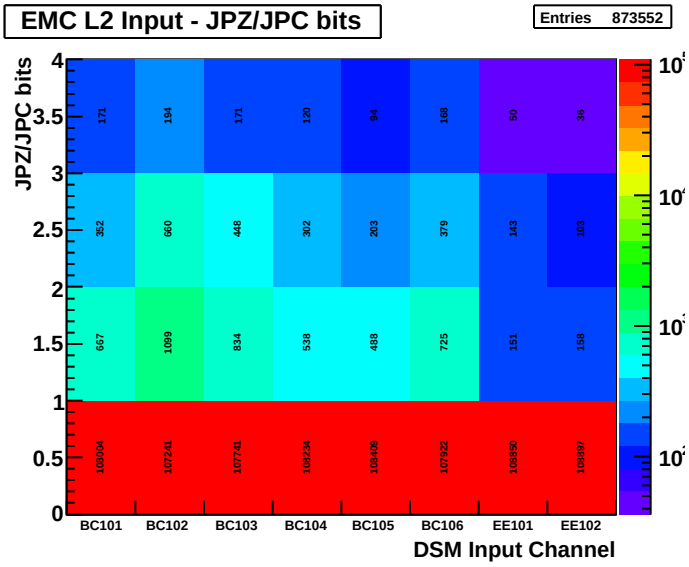

Endcap EMC L1 Input - High Tower Bits
Entries 1
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

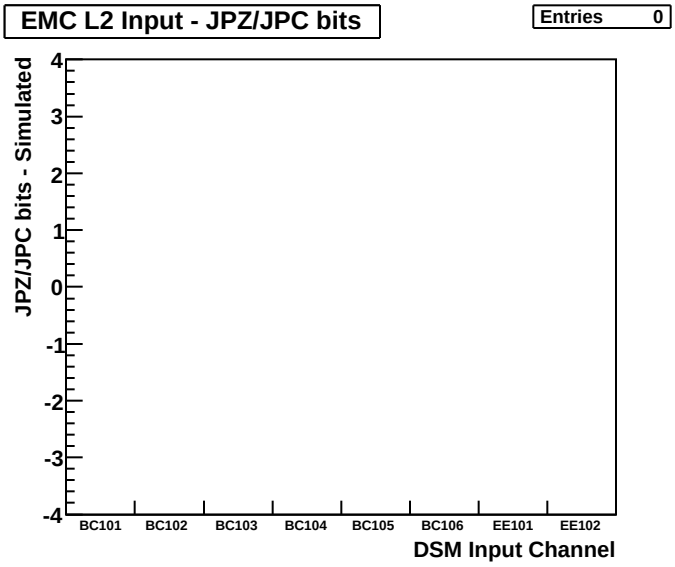

EMC L2 Input - JPX/JPA bits
Entries 873552
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
273 223 180 99 309 171 49 56
799 590 465 241 859 413 147 124
1142 1037 674 423 1107 916 174 145
106960 107344 107875 108431 106919 107694 108824 108869

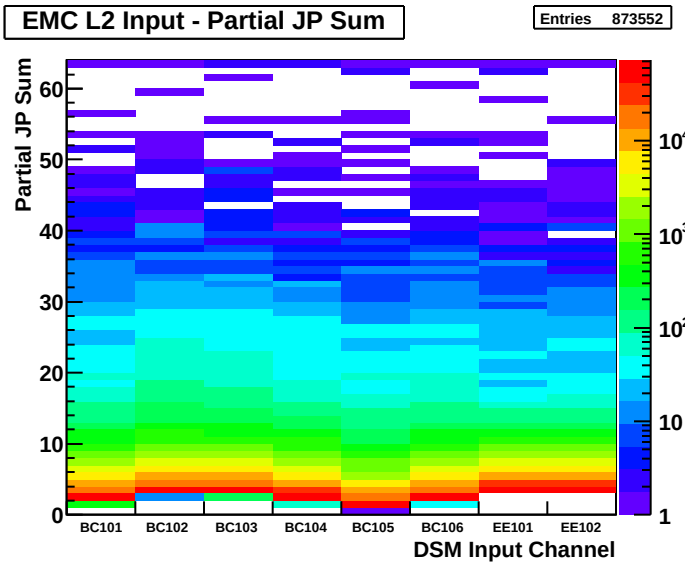

EMC L2 Input - JPX/JPA bits
Entries 111
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
77
34

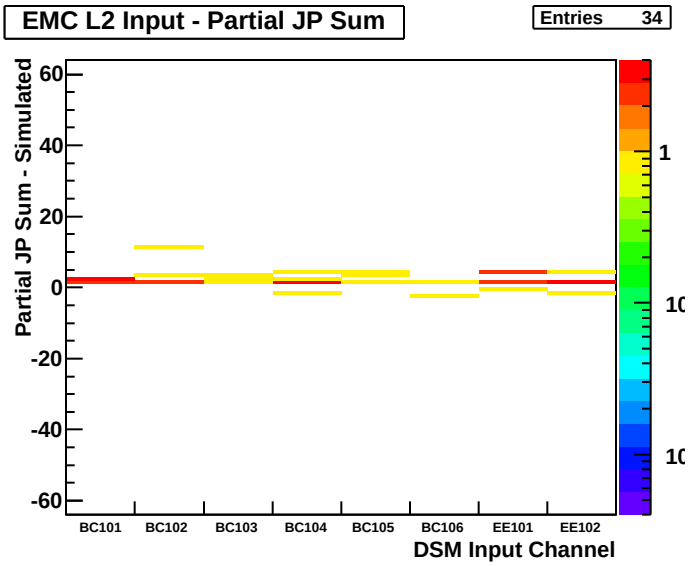

EMC L2 Input - JPY/JPB bits
Entries 873552
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
202 196 121 66 128 230 41 56
575 514 299 167 335 723 111 127
1101 1081 656 379 837 1113 130 154
107316 107403 108118 108582 107694 107128 108912 108857

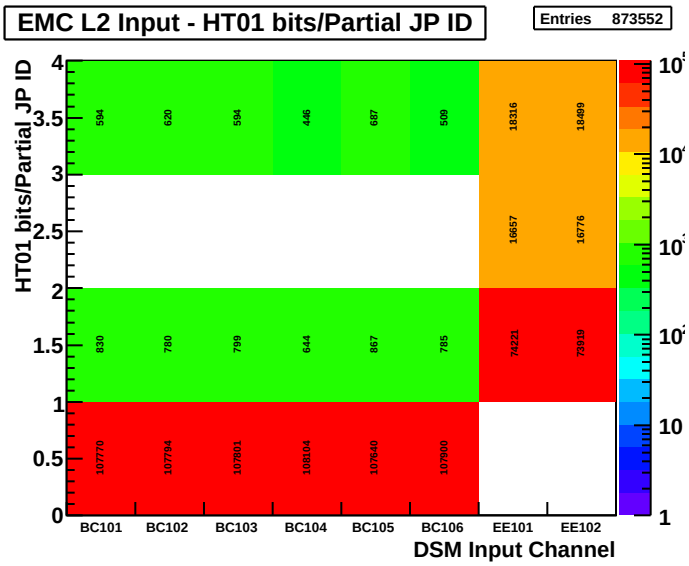

EMC L2 Input - JPY/JPB bits
Entries 113
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
67
45
1

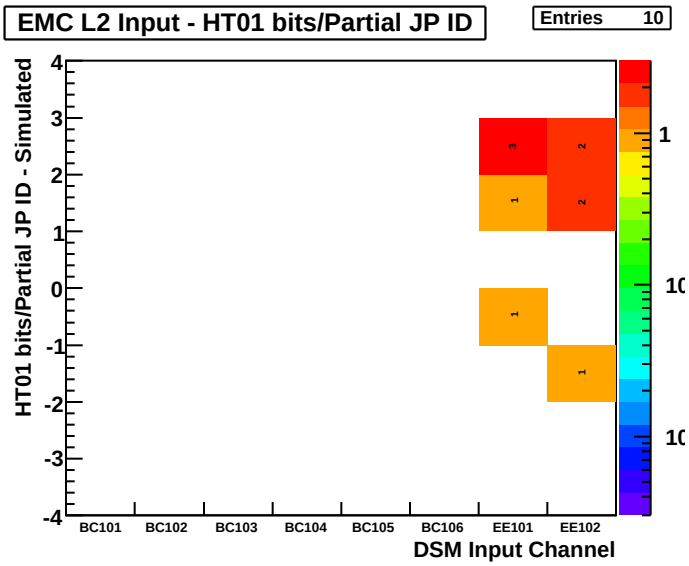

EMC L2 Input - JPZ/JPC bits
Entries 873552
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
171 194 171 120 94 168 50 36
352 660 448 302 203 379 143 103
667 1099 834 538 488 725 151 158
108004 107241 107741 108234 108409 107922 108950 108837

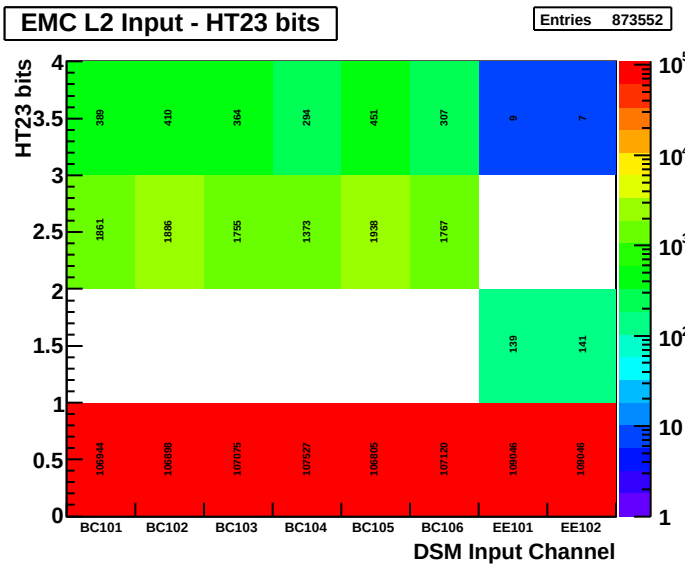

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

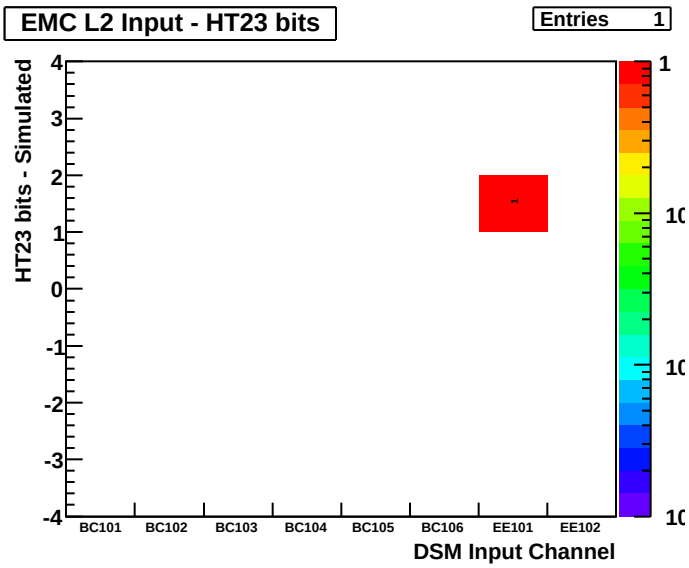

EMC L2 Input - Partial JP Sum
Entries 873552
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

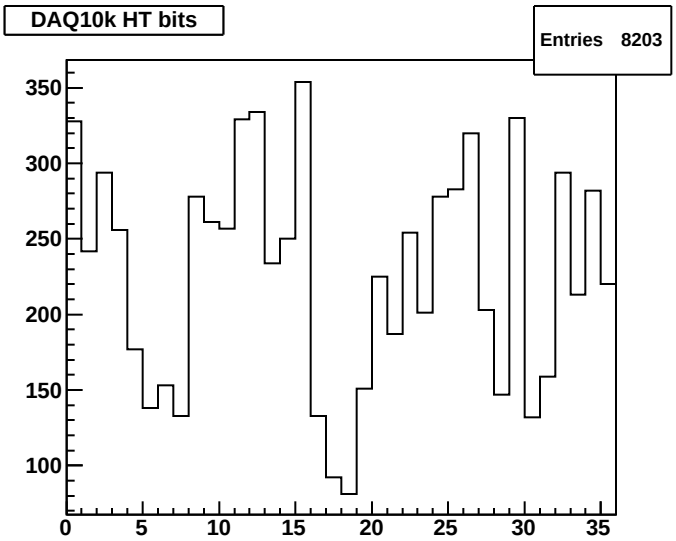

EMC L2 Input - Partial JP Sum
Entries 34
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

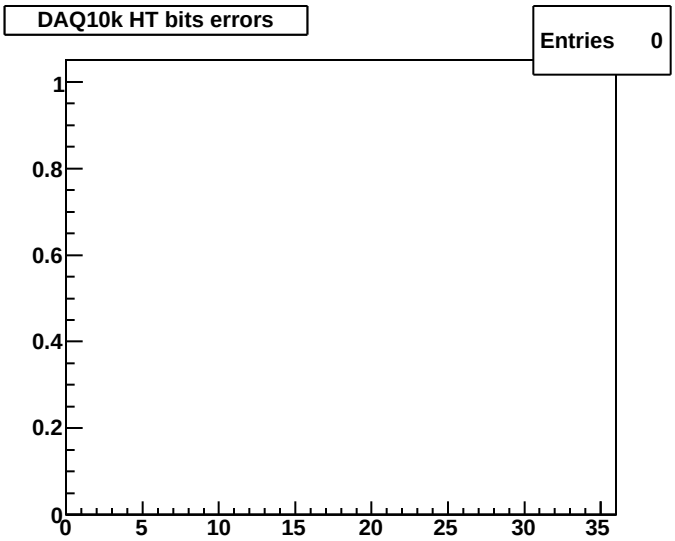

EMC L2 Input - HT01 bits/Partial JP ID
Entries 873552
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

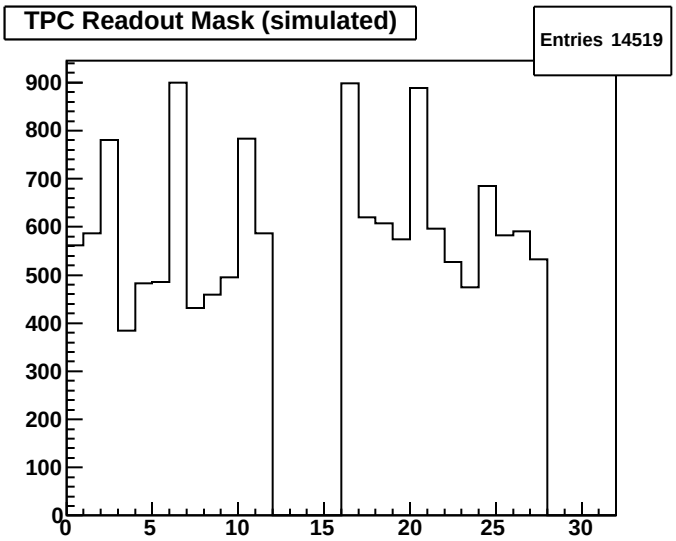

EMC L2 Input - HT01 bits/Partial JP ID
Entries 10
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

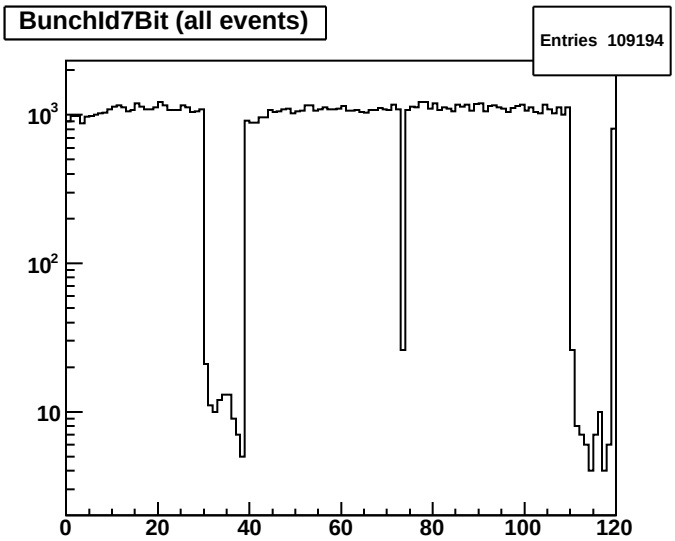

EMC L2 Input - HT23 bits
Entries 873552
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

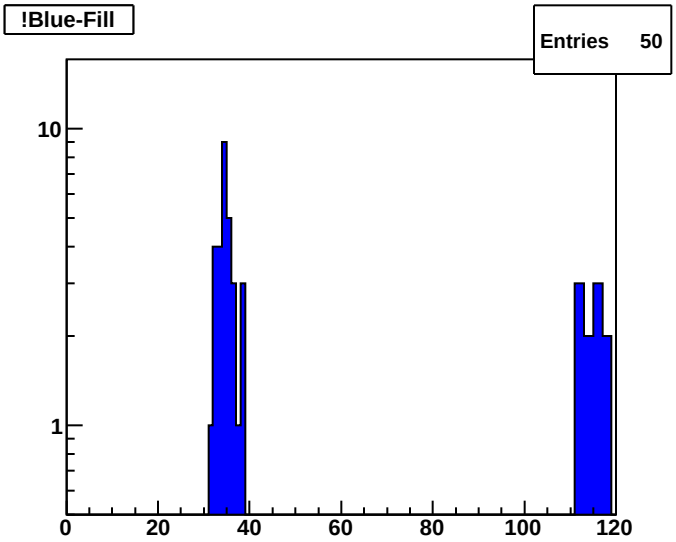

EMC L2 Input - HT23 bits
Entries 1
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

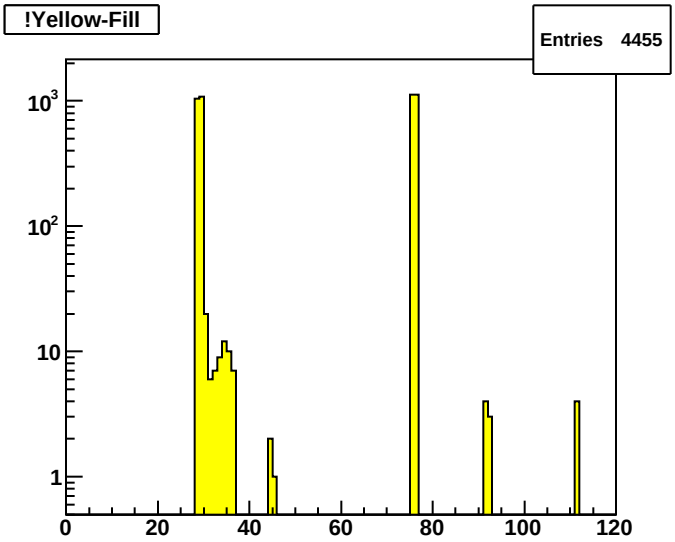

DAQ10k HT bits
Entries 8203

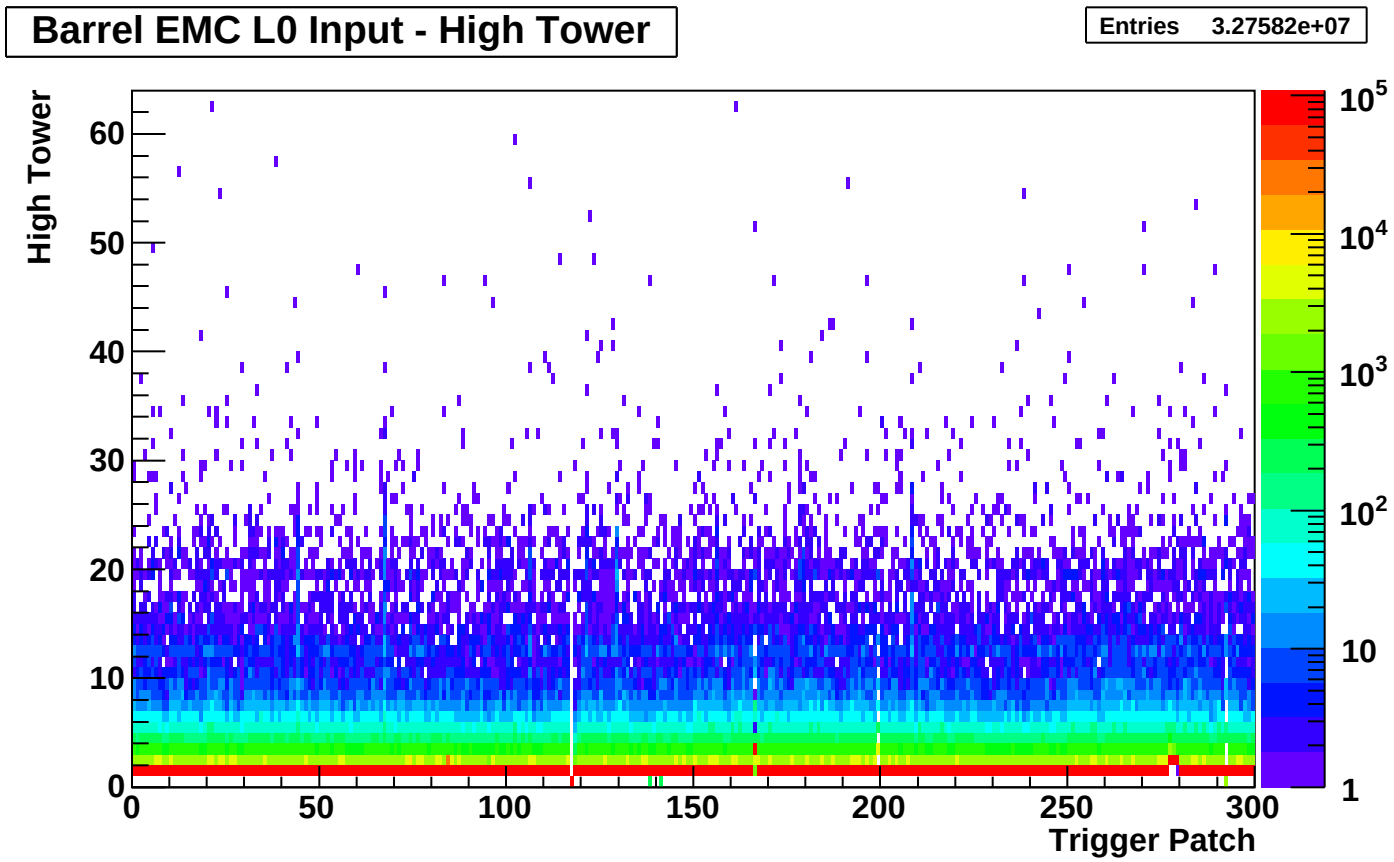

DAQ10k HT bits errors
Entries 0

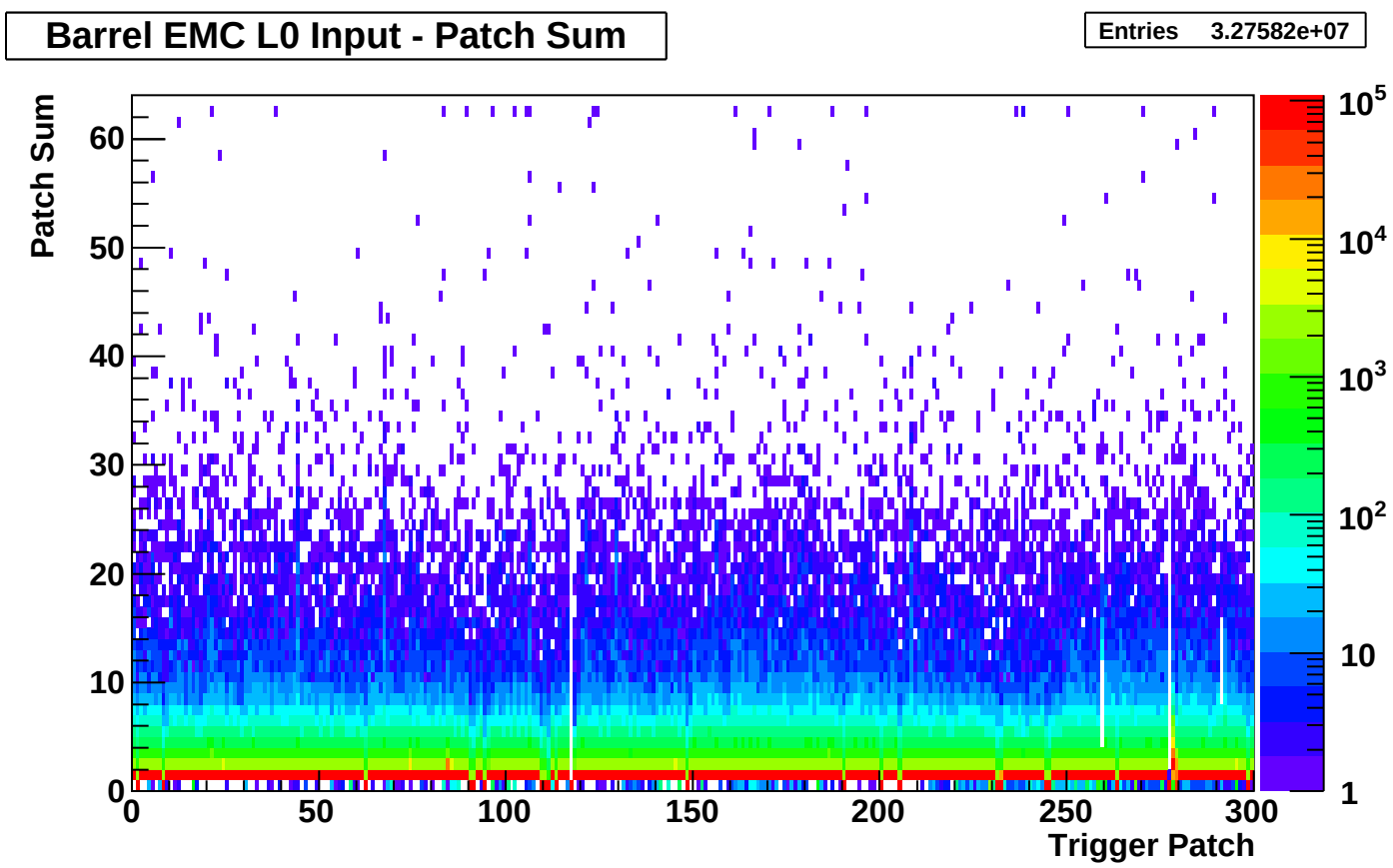

TPC Readout Mask (simulated)
Entries 14519

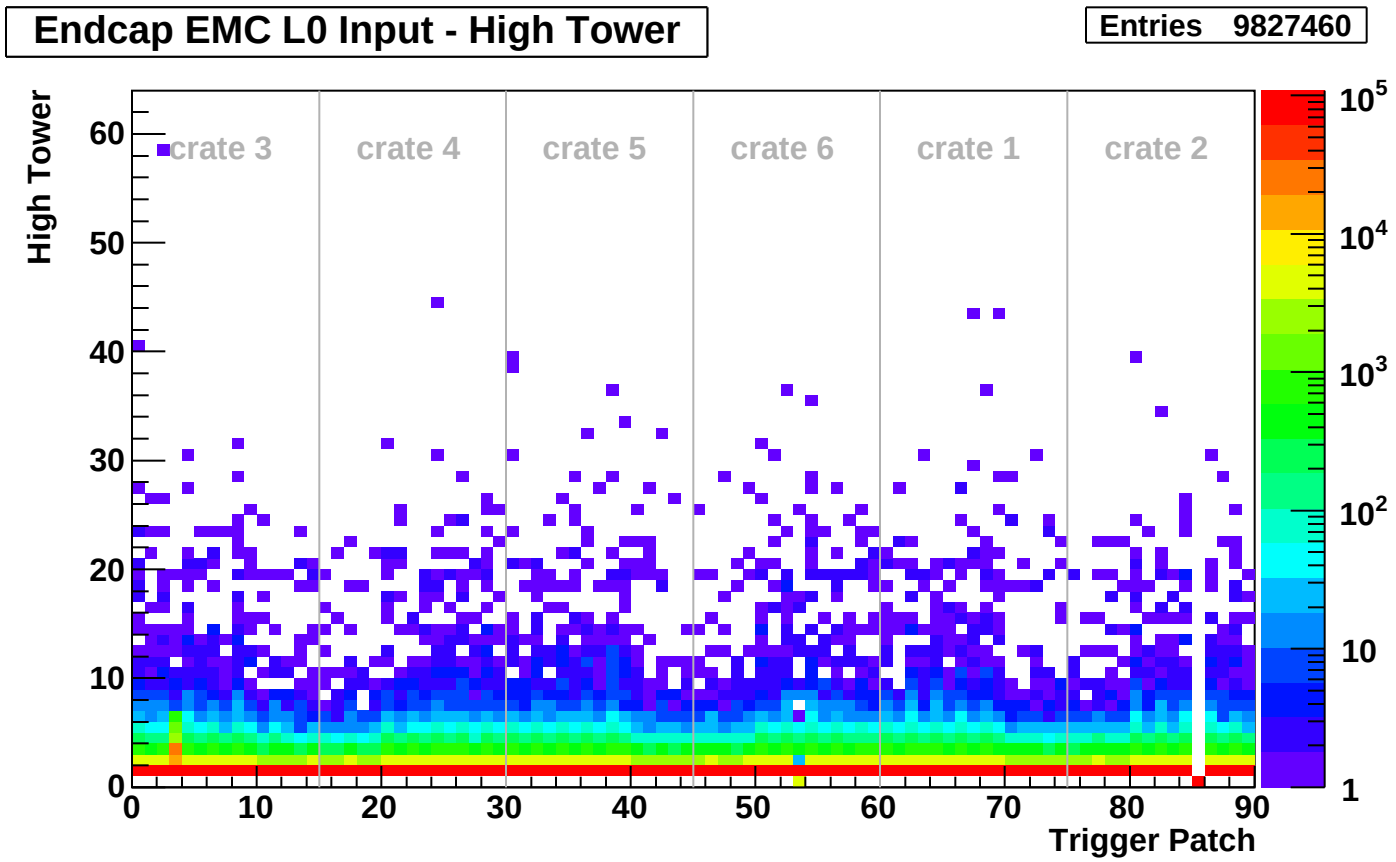

BunchId7Bit (all events)
Entries 109194

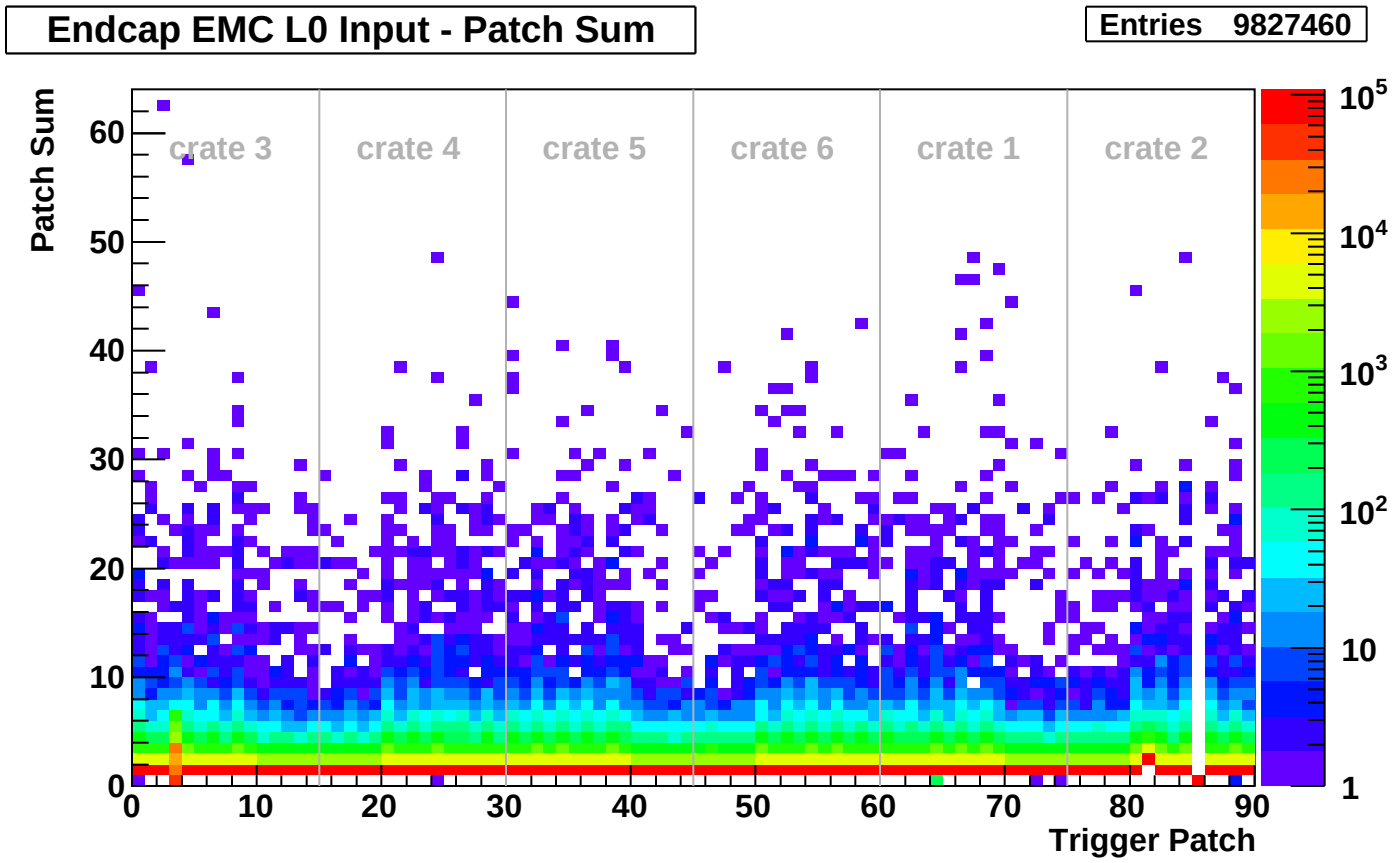

!Blue-Fill
Entries 50

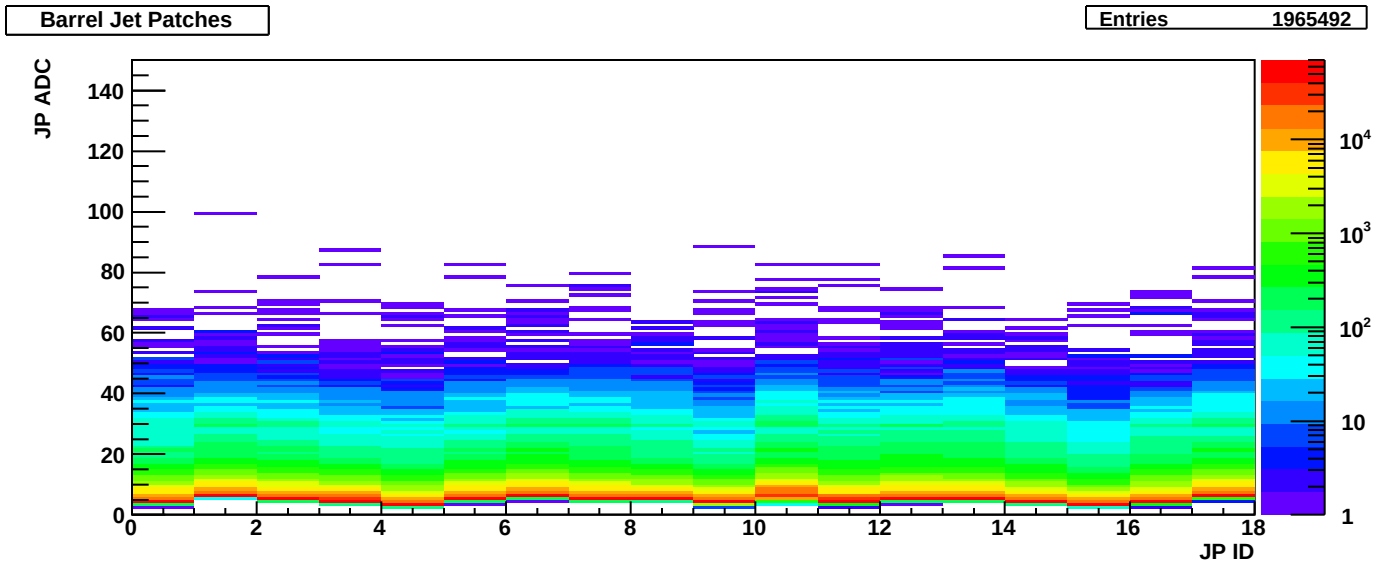

!Yellow-Fill
Entries 4455

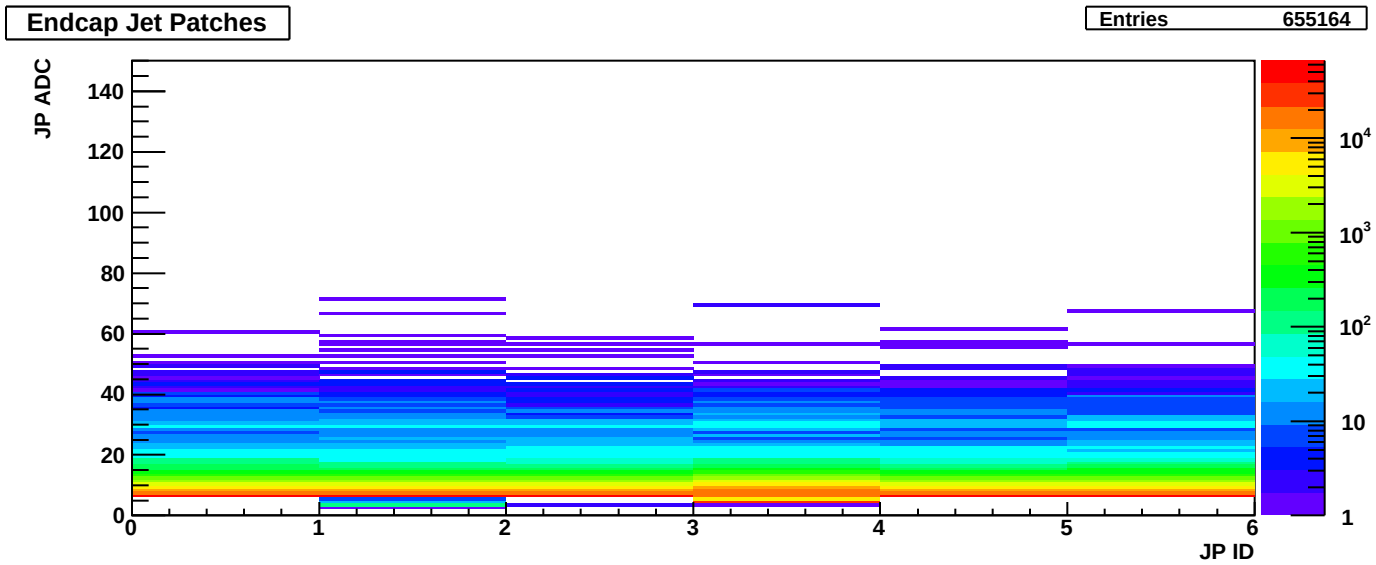

Barrel EMC L0 Input - High Tower
Entries 3.27582e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

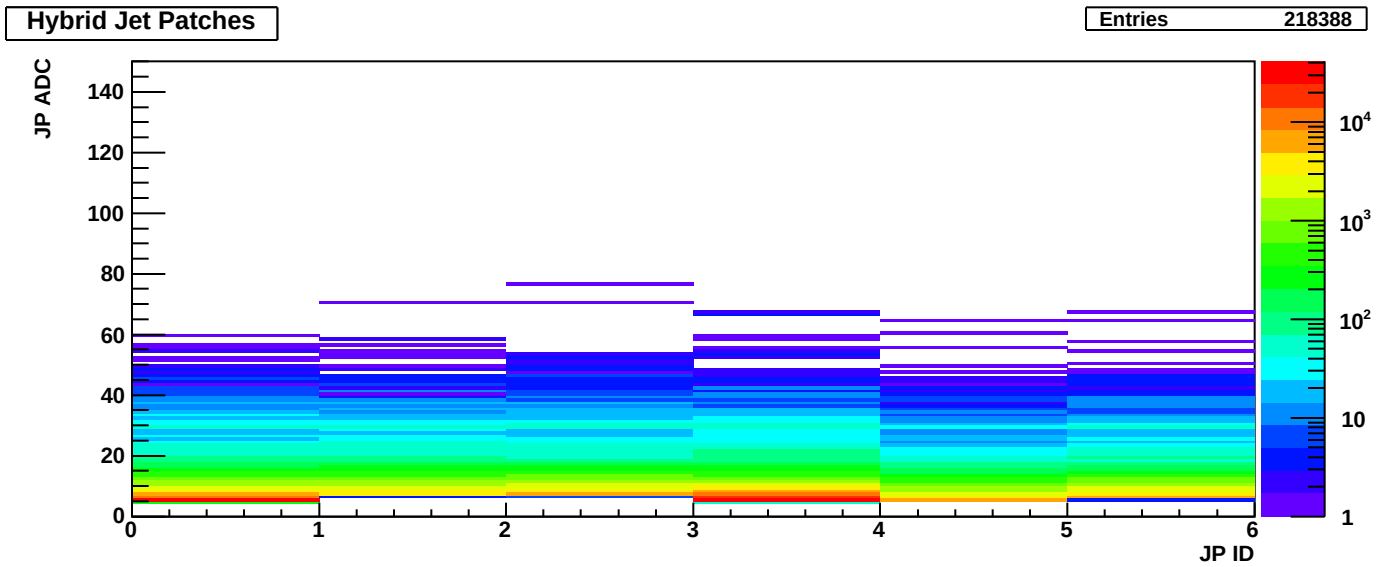

Barrel EMC L0 Input - Patch Sum
Entries 3.27582e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

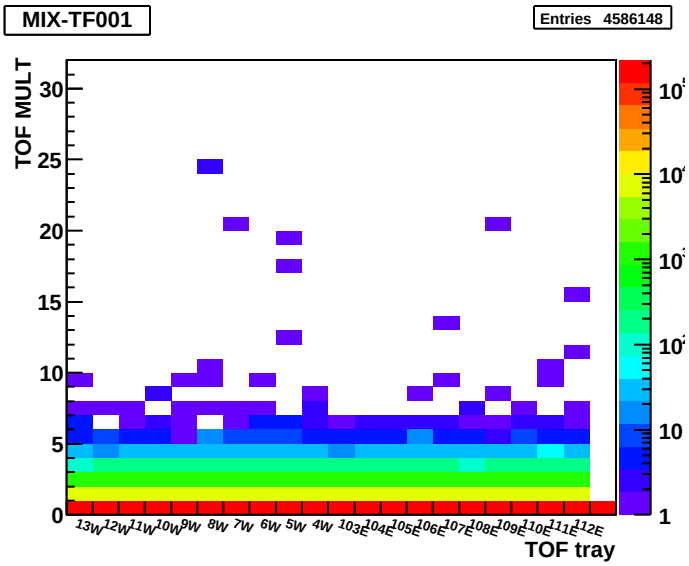

Endcap EMC L0 Input - High Tower
Entries 9827460
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

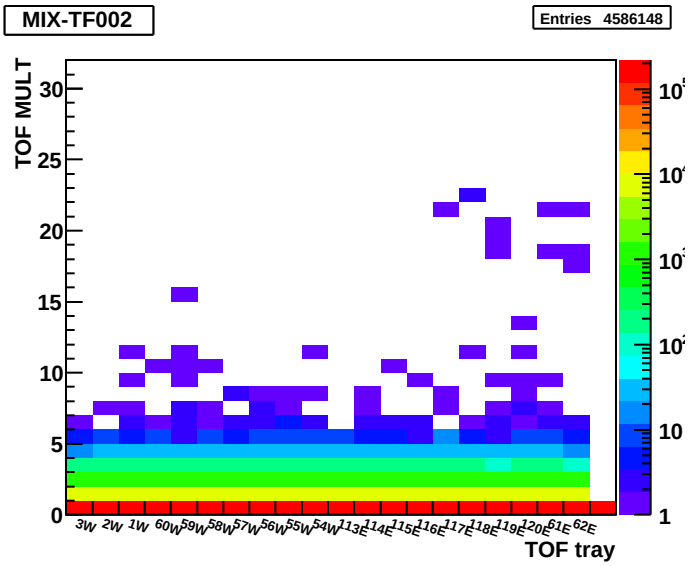

Endcap EMC L0 Input - Patch Sum
Entries 9827460
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

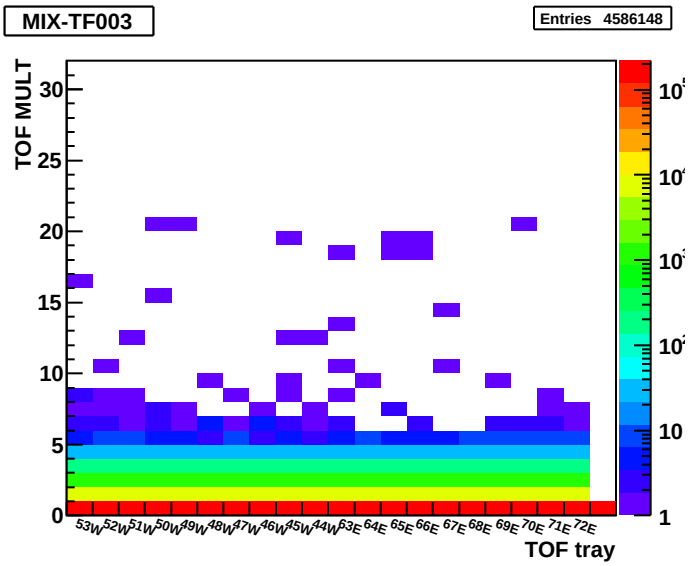

Barrel Jet Patches
Entries 1965492
JP ADC
JP ID

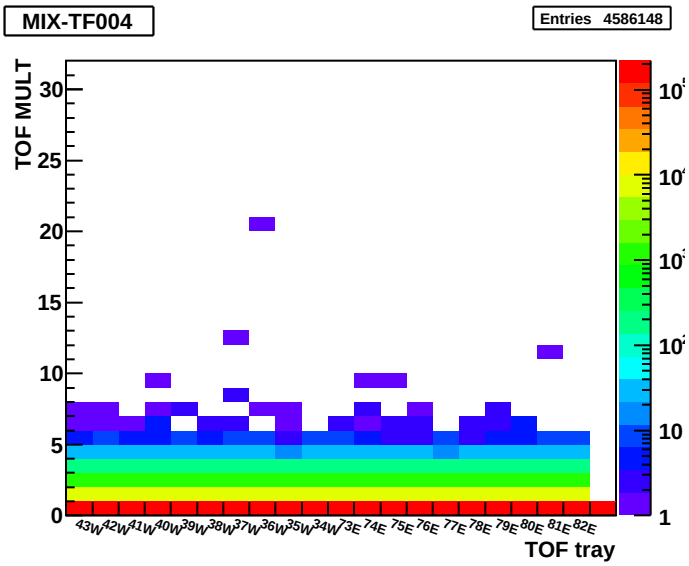

Endcap Jet Patches
Entries 655164
JP ADC
JP ID

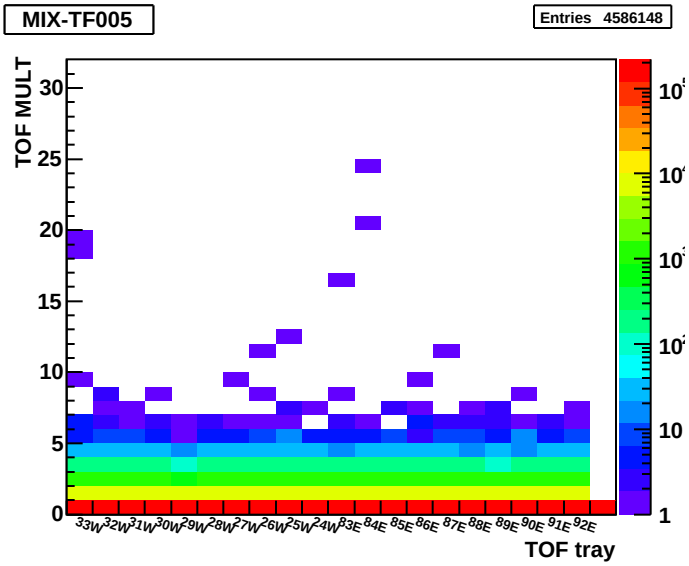

Hybrid Jet Patches
Entries 218388
JP ADC
JP ID

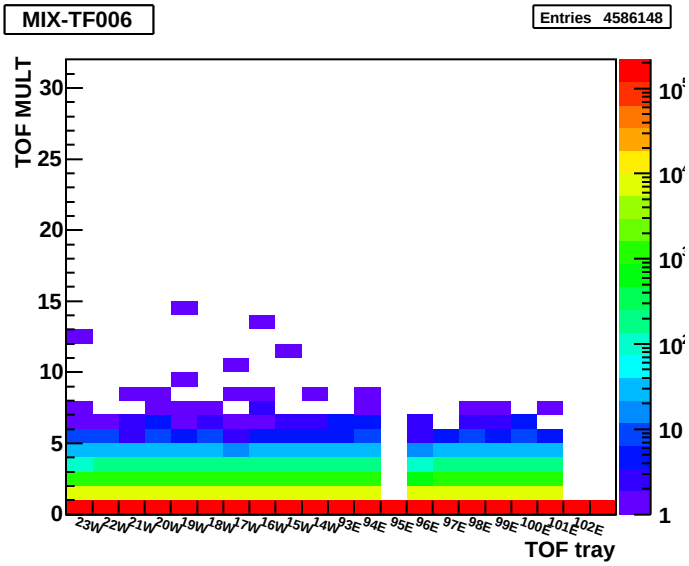

MIX-TF001
Entries 4586148
TOF MULT
TOF tray

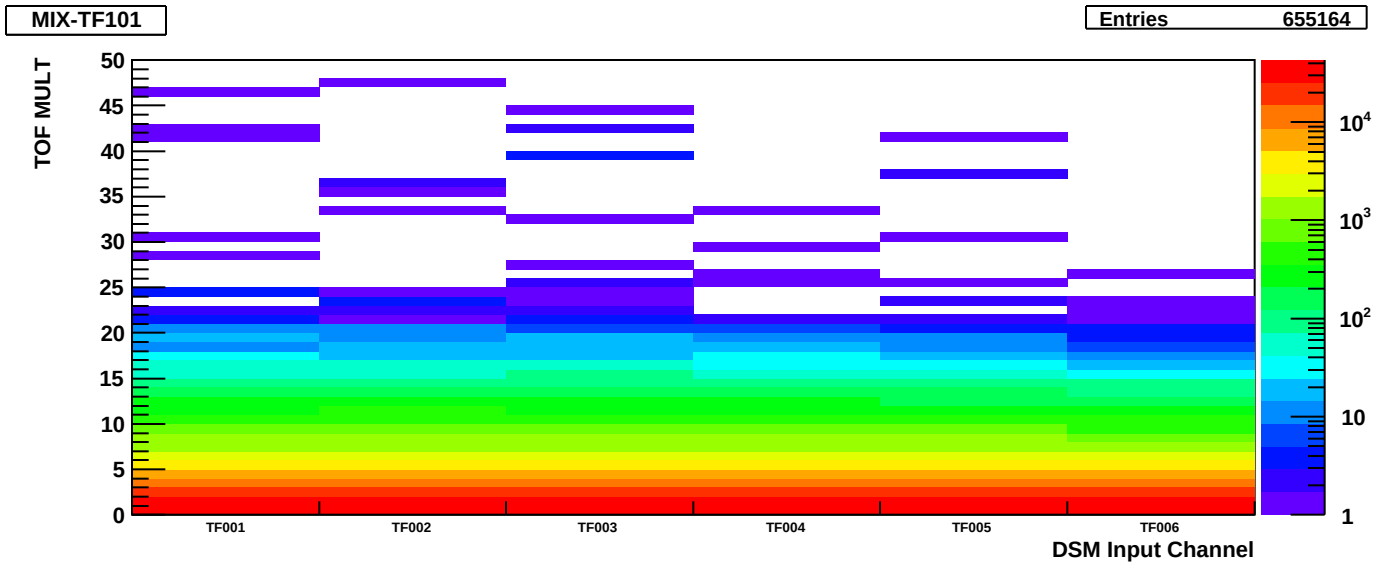

MIX-TF002
Entries 4586148
TOF MULT
TOF tray

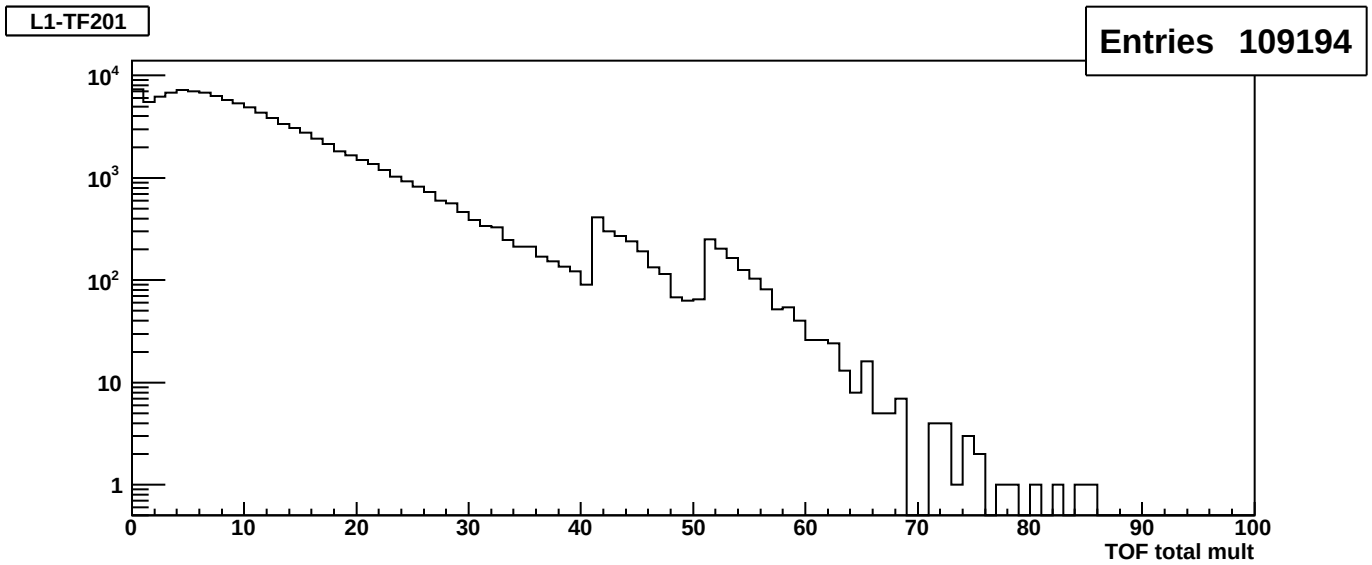

MIX-TF003
Entries 4586148
TOF MULT
TOF tray

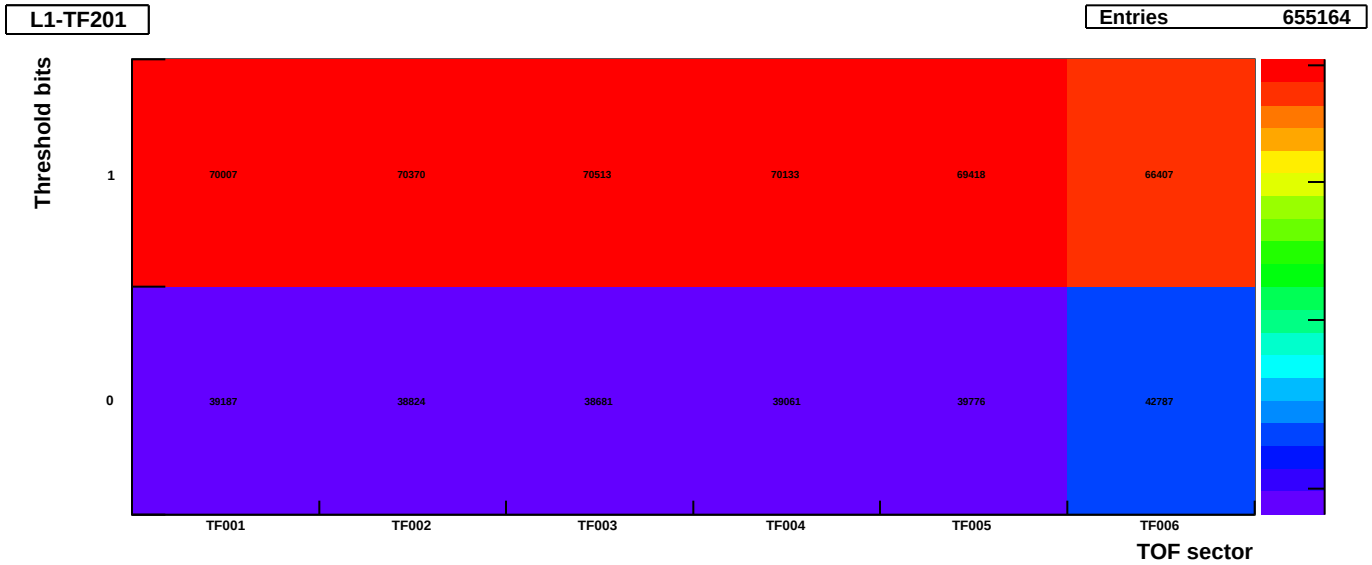

MIX-TF004
Entries 4586148
TOF MULT
TOF tray

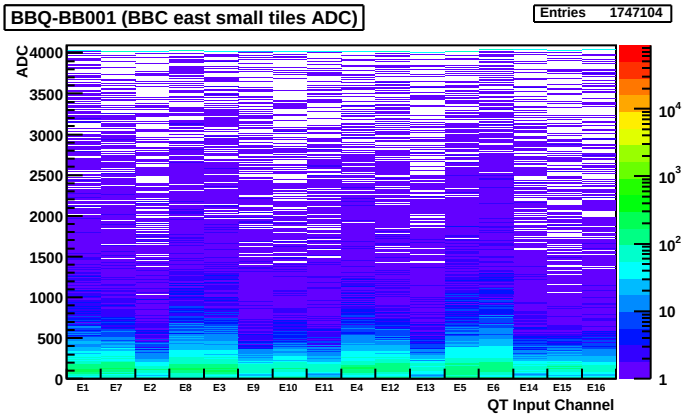

MIX-TF005
Entries 4586148
TOF MULT
TOF tray

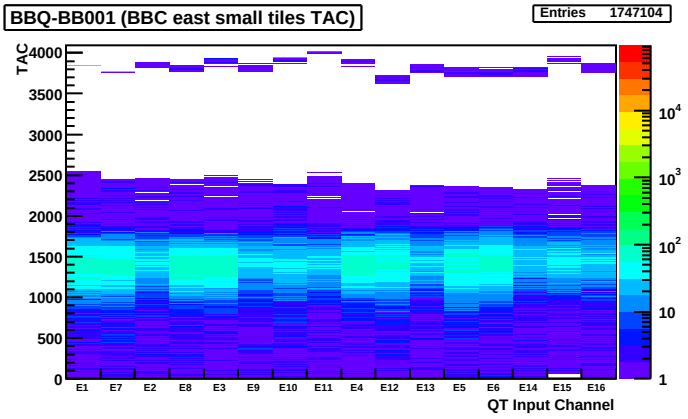

MIX-TF006
Entries 4586148
TOF MULT
TOF tray

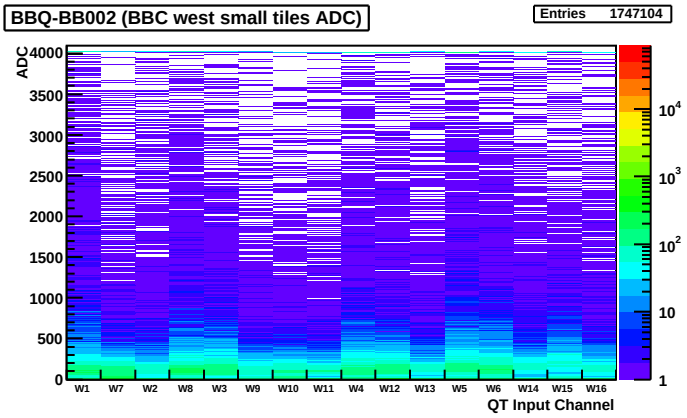

MIX-TF101
Entries 655164
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

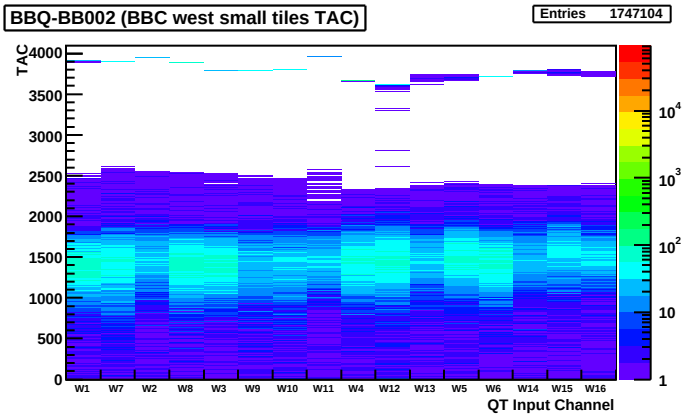

L1-TF201
Entries 109194
TOF total mult

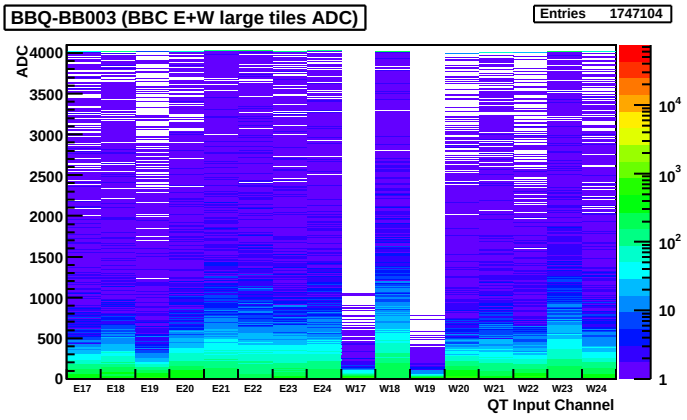

L1-TF201
Entries 655164
Threshold bits
70007
70370
70513
70133
69418
66407
39187
38824
38681
39061
39776
42787
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

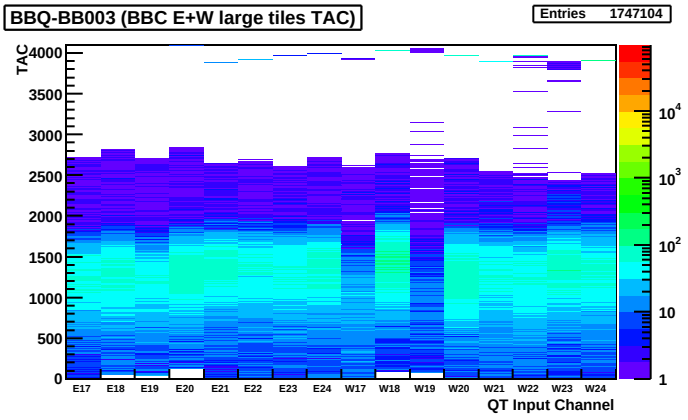

BBQ-BB001 (BBC east small tiles ADC)
Entries 1747104
ADC
QT Input Channel

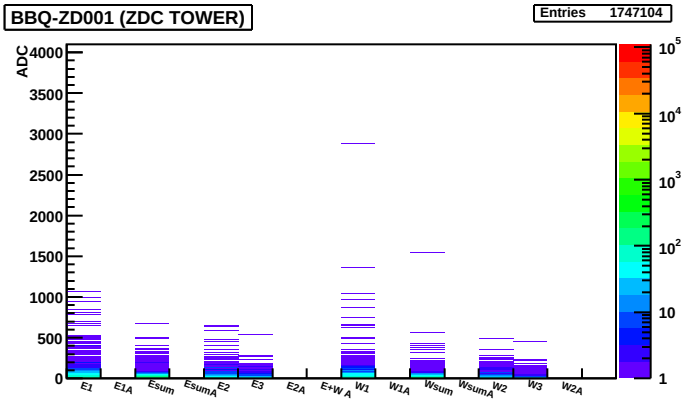

BBQ-BB001 (BBC east small tiles TAC)
Entries 1747104
TAC
QT Input Channel

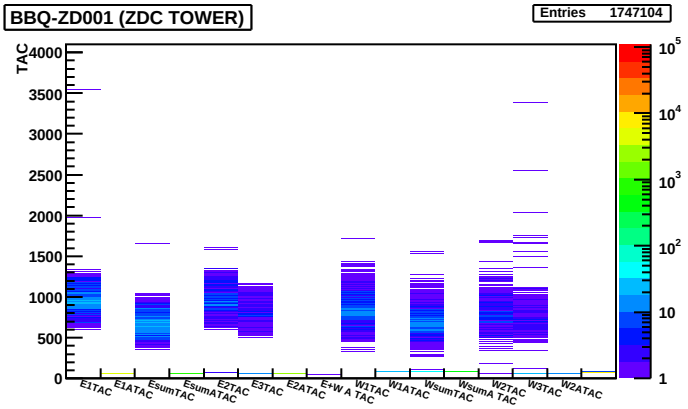

BBQ-BB002 (BBC west small tiles ADC)
Entries 1747104
ADC
QT Input Channel

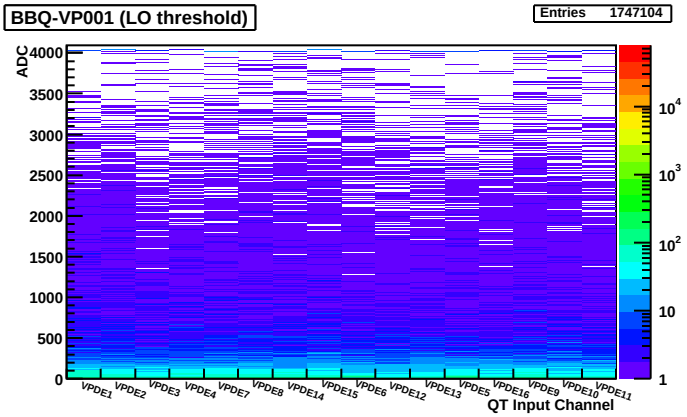

BBQ-BB002 (BBC west small tiles TAC)
Entries 1747104
TAC
QT Input Channel

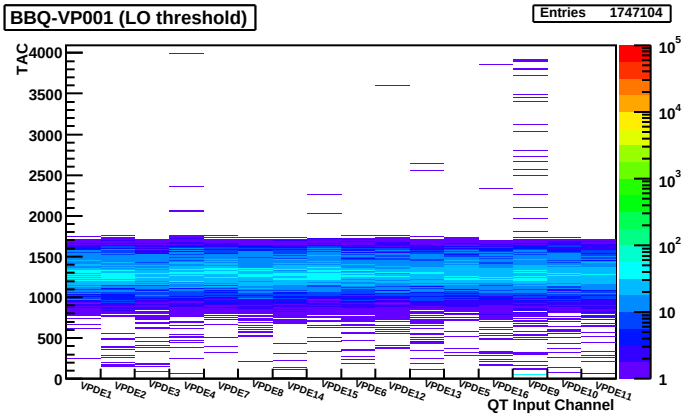

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1747104
ADC
QT Input Channel

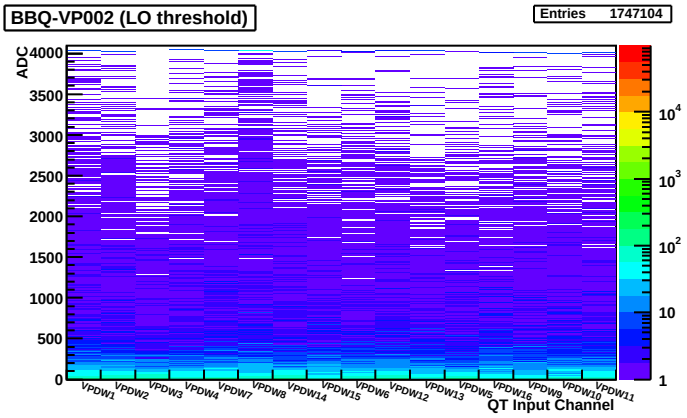

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1747104
TAC
QT Input Channel

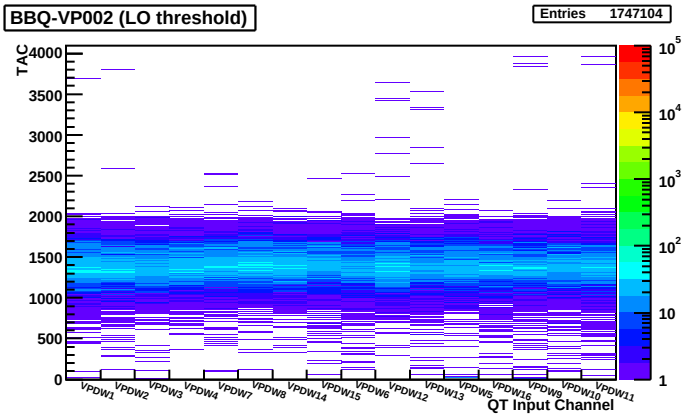

BBQ-ZD001 (ZDC TOWER)
Entries 1747104
ADC

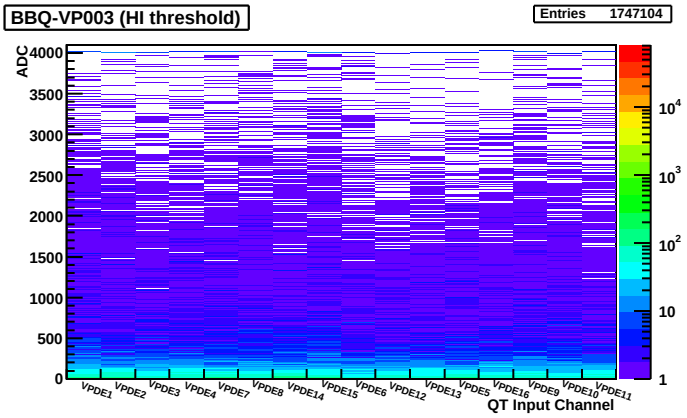

BBQ-ZD001 (ZDC TOWER)
Entries 1747104
TAC

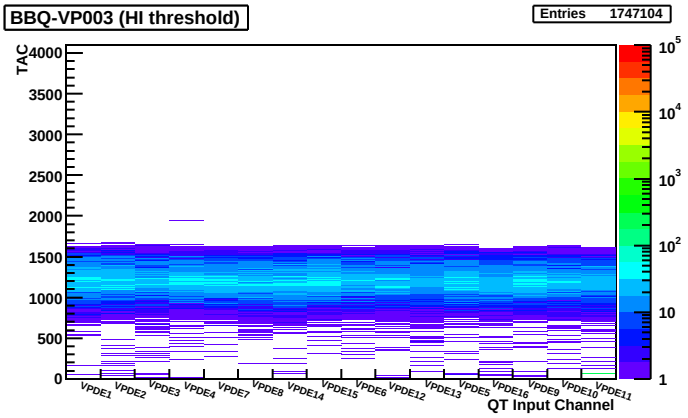

BBQ-VP001 (LO threshold)
Entries 1747104
ADC
QT Input Channel

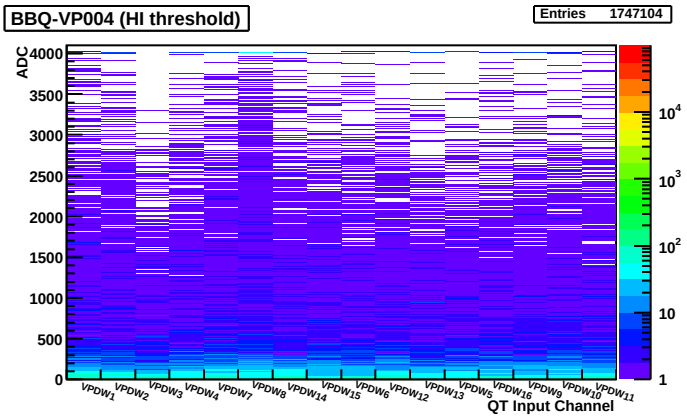

BBQ-VP001 (LO threshold)
Entries 1747104
TAC
QT Input Channel

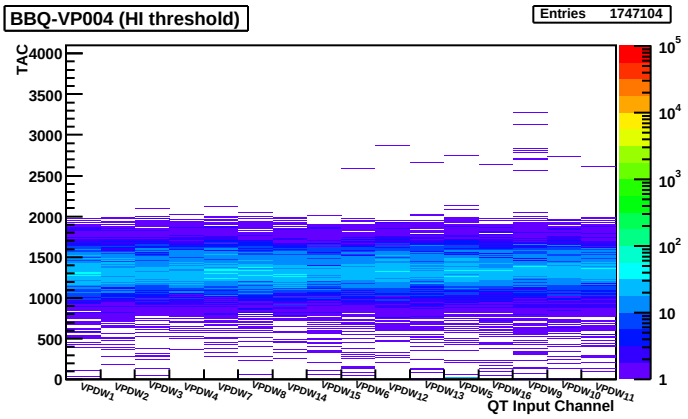

BBQ-VP002 (LO threshold)
Entries 1747104
ADC
QT Input Channel

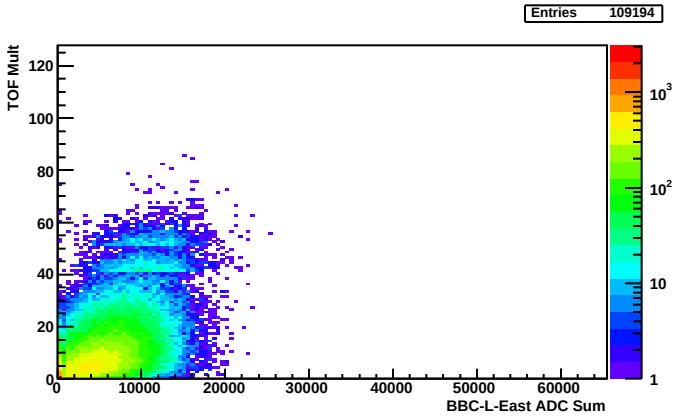

BBQ-VP002 (LO threshold)
Entries 1747104
TAC
QT Input Channel

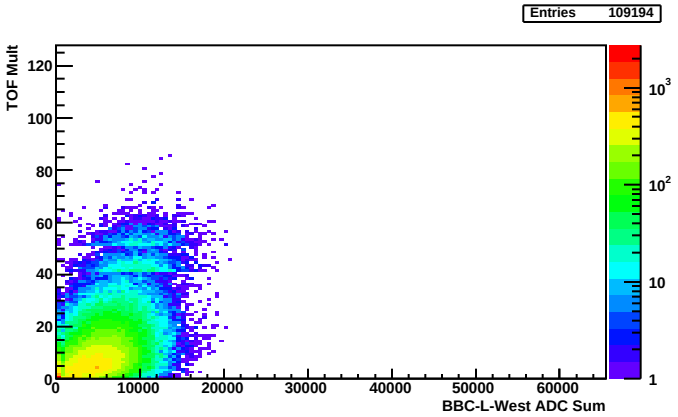

BBQ-VP003 (HI threshold)
Entries 1747104
ADC
QT Input Channel

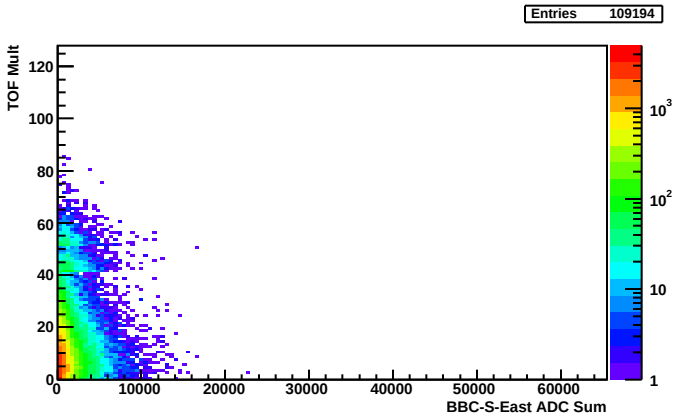

BBQ-VP003 (HI threshold)
Entries 1747104
TAC
QT Input Channel

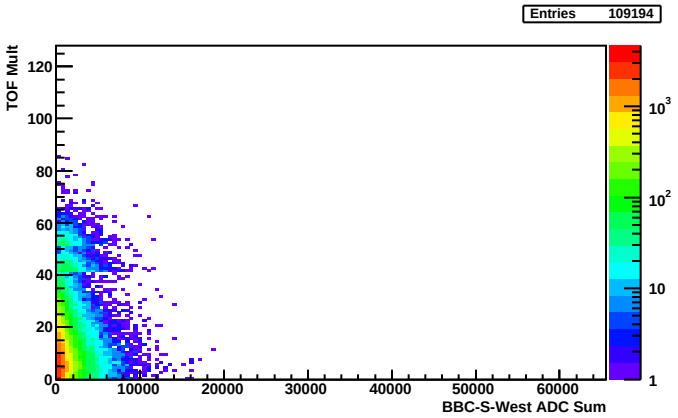

BBQ-VP004 (HI threshold)
Entries 1747104
ADC
QT Input Channel

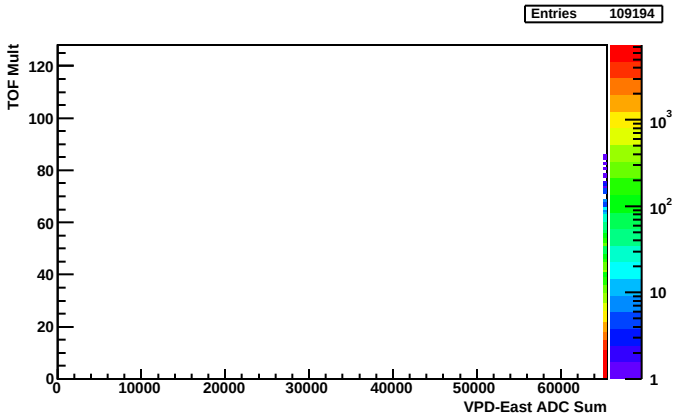

BBQ-VP004 (HI threshold)
Entries 1747104
TAC
QT Input Channel

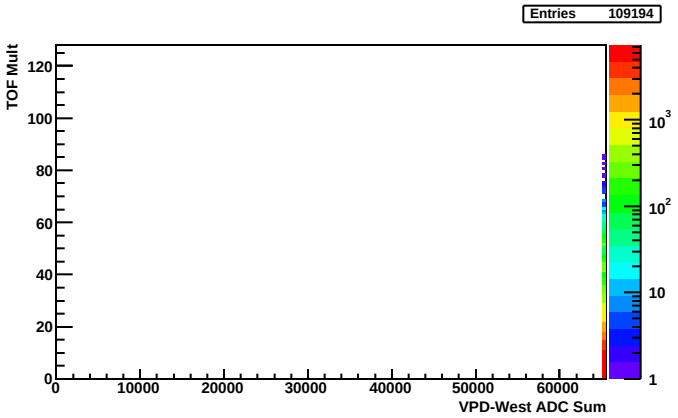

Entries 109194
TOF Mult
BBC-L-East ADC Sum

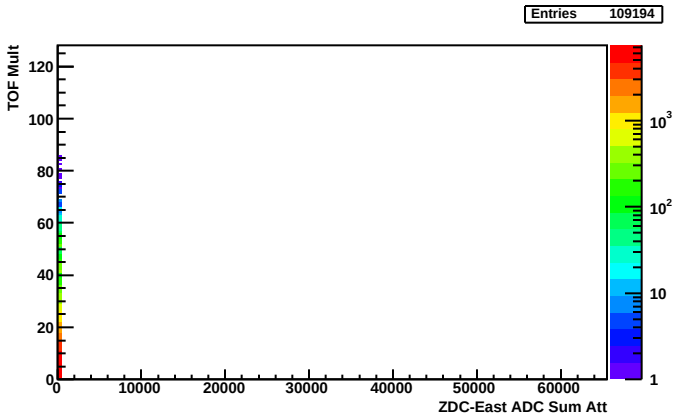

Entries 109194
TOF Mult
BBC-L-West ADC Sum

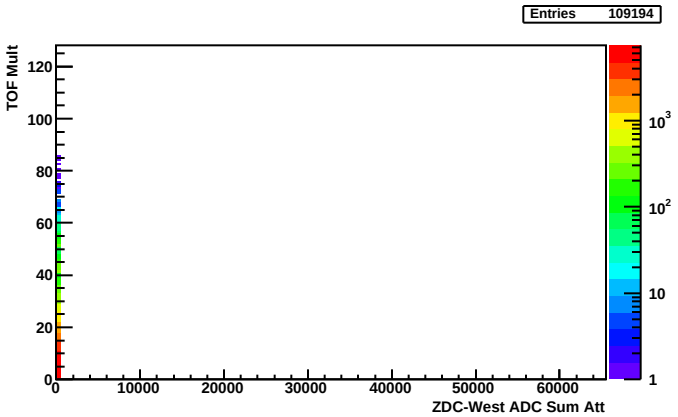

Entries 109194
TOF Mult
BBC-S-East ADC Sum

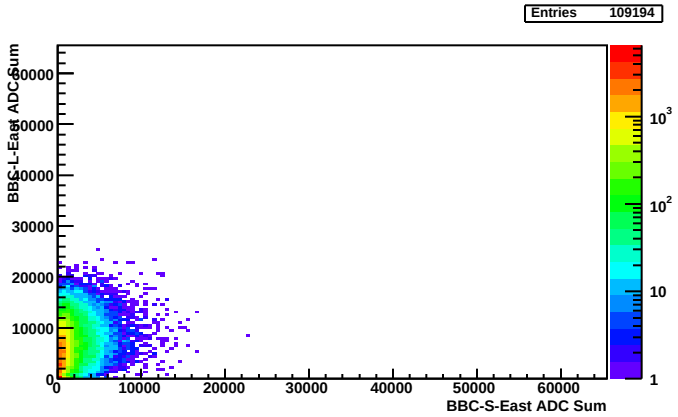

Entries 109194
TOF Mult
BBC-S-West ADC Sum

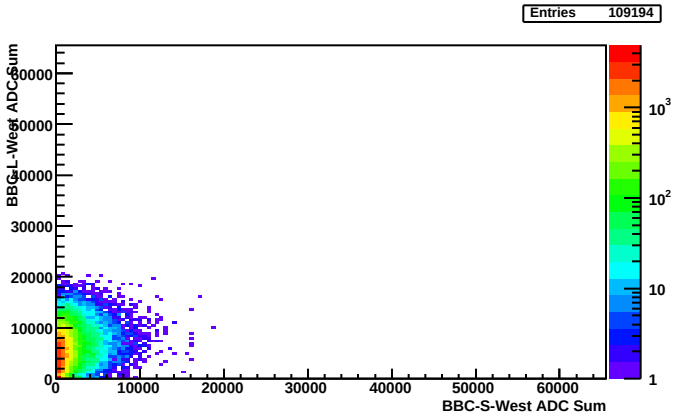

Entries 109194
TOF Mult
VPD-East ADC Sum

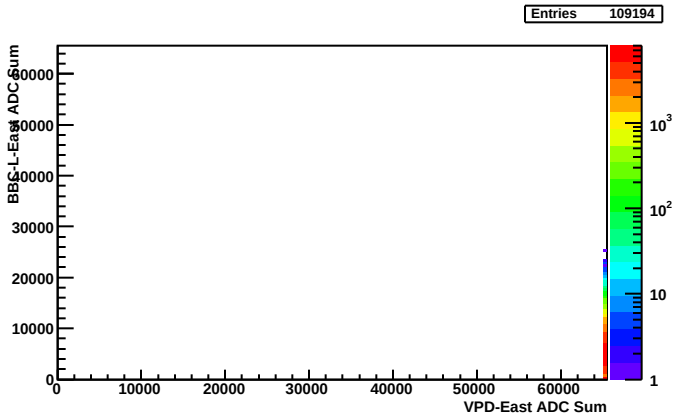

Entries 109194
TOF Mult
VPD-West ADC Sum

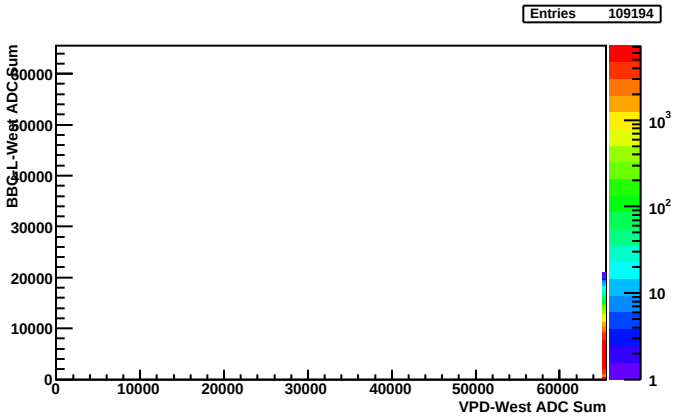

Entries 109194
TOF Mult
ZDC-East ADC Sum Att

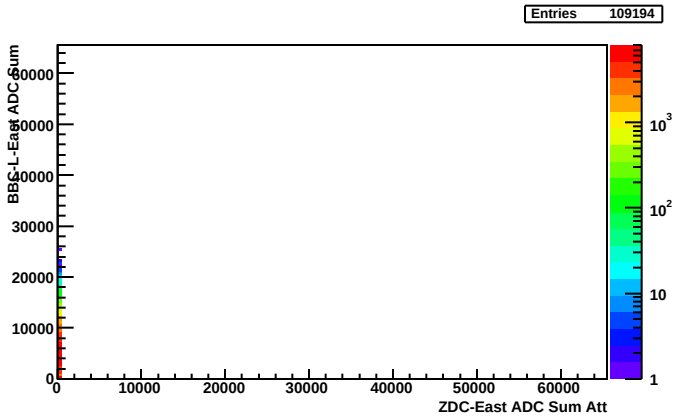

Entries 109194
TOF Mult
ZDC-West ADC Sum Att

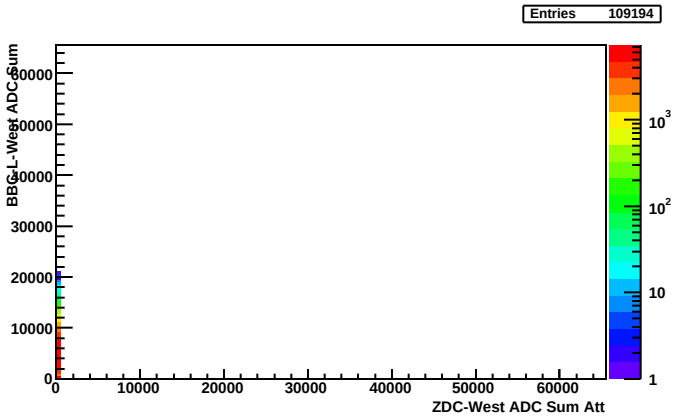

Entries 109194
BBC-L-East ADC Sum
BBC-S-East ADC Sum

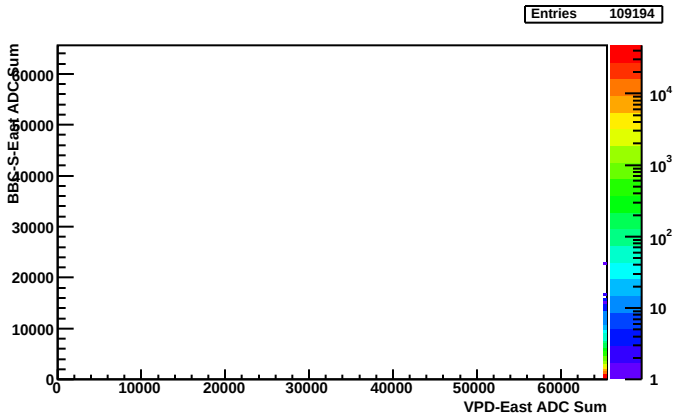

Entries 109194
BBC-L-West ADC Sum
BBC-S-West ADC Sum

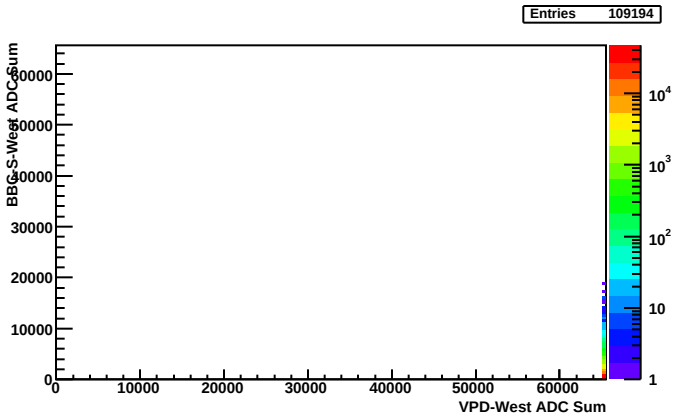

Entries 109194
BBC-L-East ADC Sum
VPD-East ADC Sum

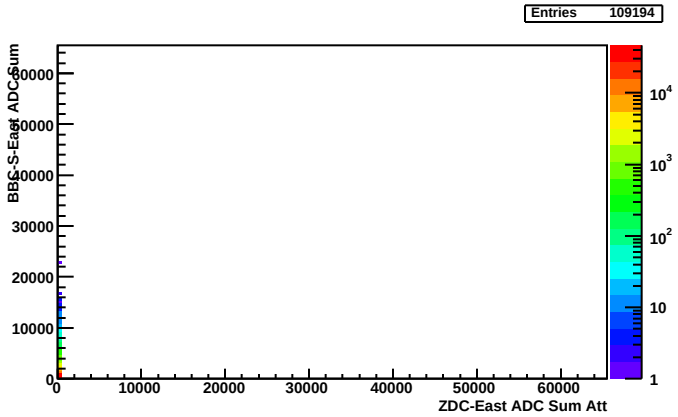

Entries 109194
BBC-L-West ADC Sum
VPD-West ADC Sum

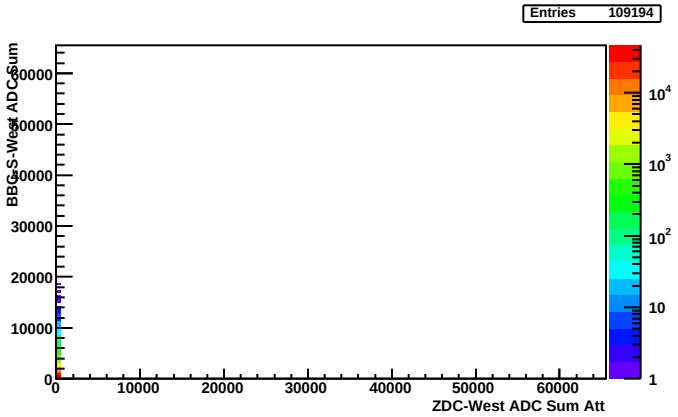

Entries 109194
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

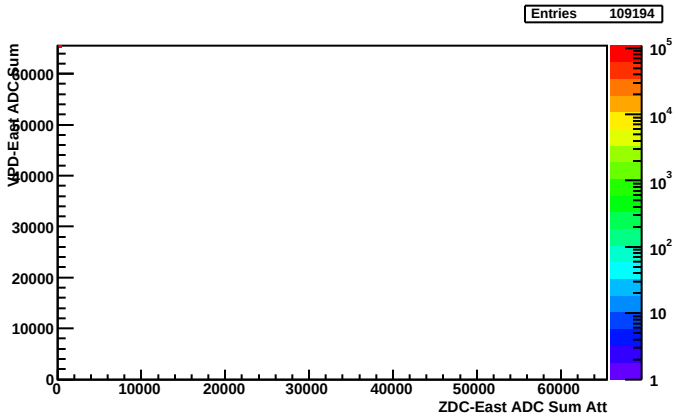

Entries 109194
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

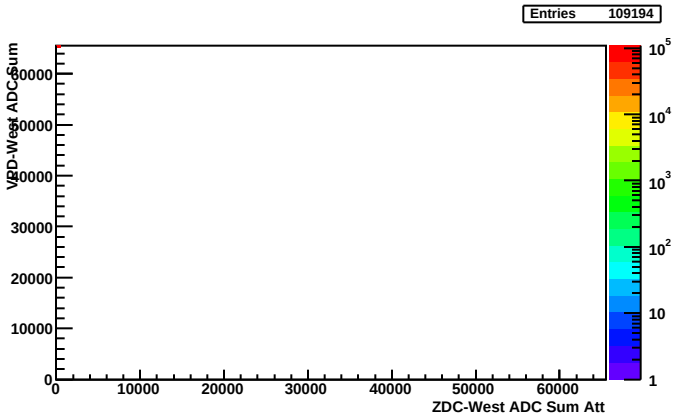

Entries 109194
BBC-S-East ADC Sum
VPD-East ADC Sum

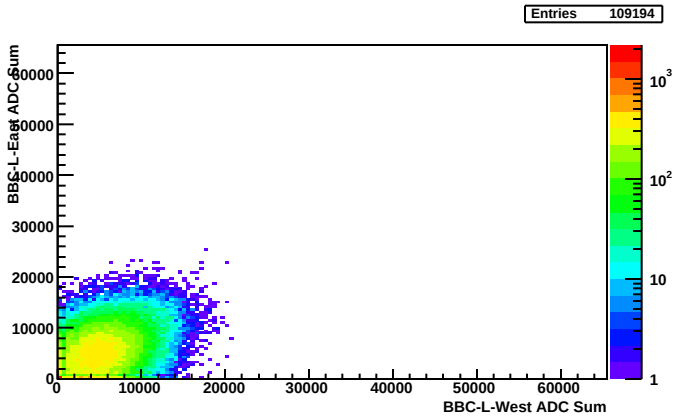

Entries 109194
BBC-S-West ADC Sum
VPD-West ADC Sum

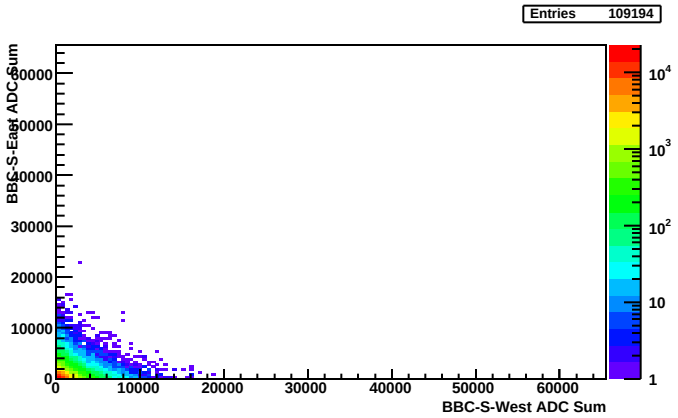

Entries 109194
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

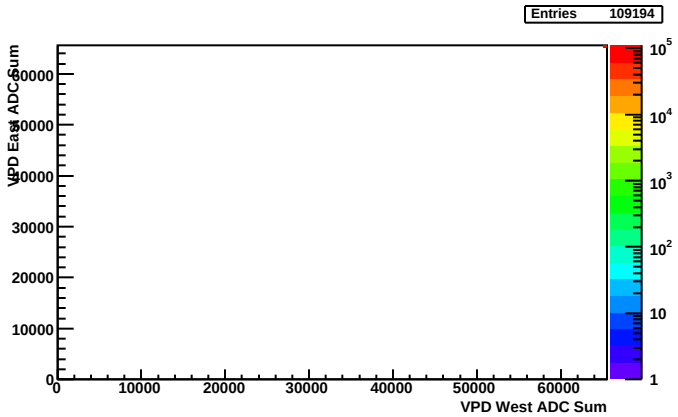

Entries 109194
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

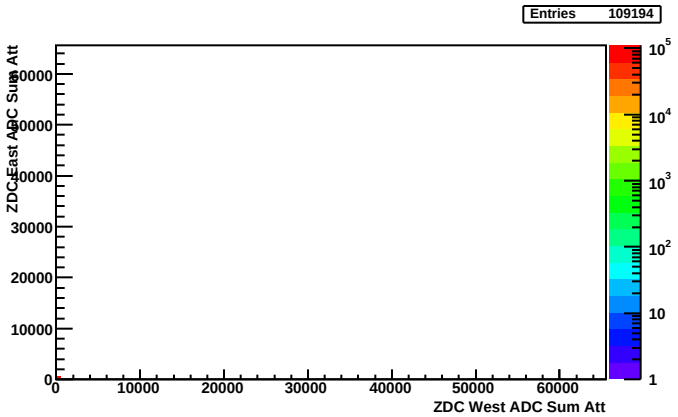

Entries 109194
VPD-East ADC Sum
ZDC-East ADC Sum Att

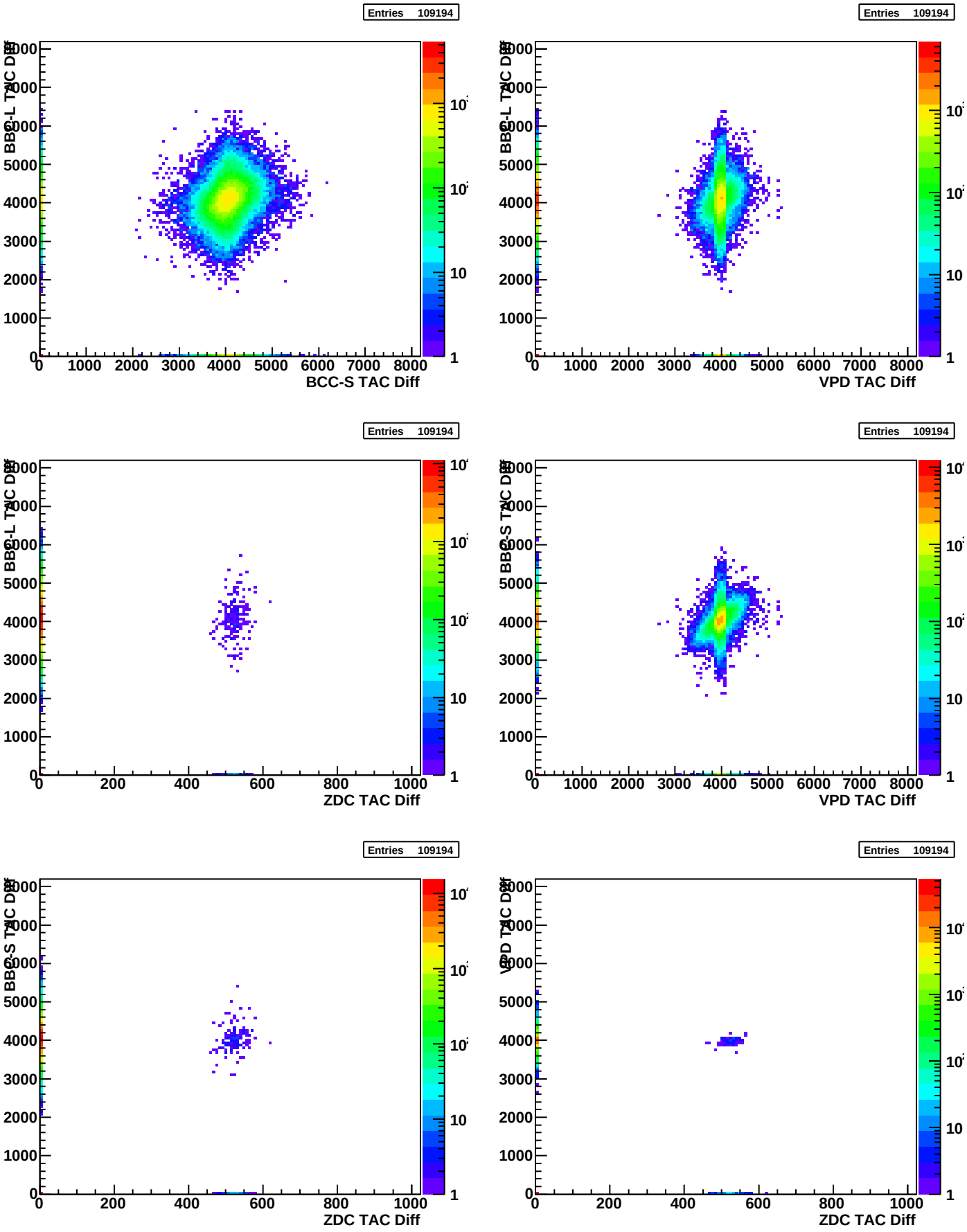

Entries 109194
VPD-West ADC Sum
ZDC-West ADC Sum Att

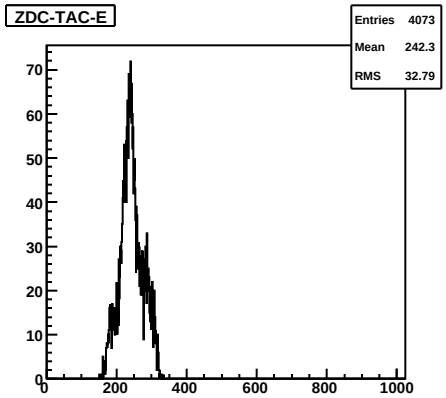

Entries 109194
BBC-L-East ADC Sum
BBC-L-West ADC Sum

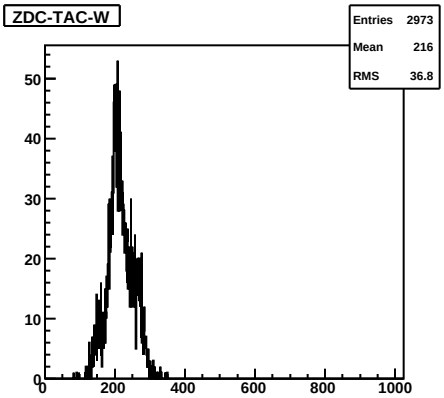

Entries 109194
BBC-S-East ADC Sum
BBC-S-West ADC Sum

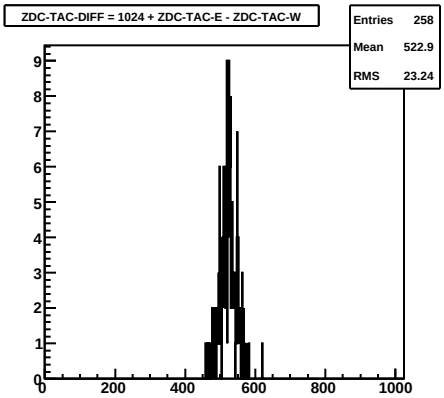

Entries 109194
VPD East ADC Sum
VPD West ADC Sum

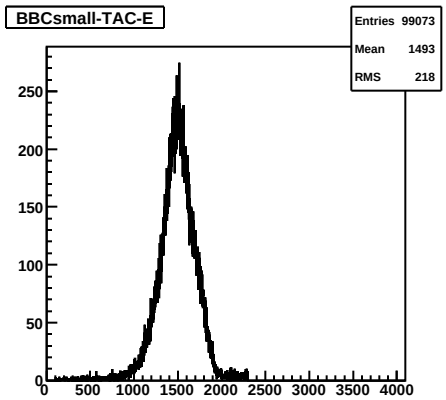

Entries 109194
ZDC East ADC Sum Att
ZDC West ADC Sum Att

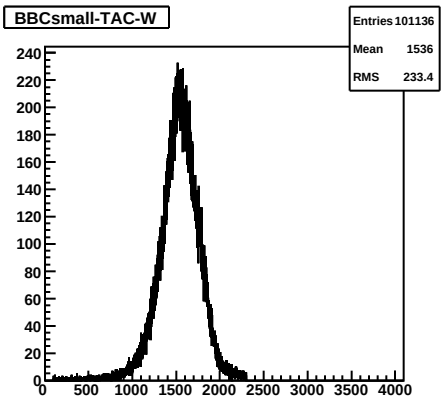

Entries 109194
BBC-L TAC Diff
BCC-S TAC Diff
Entries 109194
BBC-L TAC Diff
VPD TAC Diff
Entries 109194
BBC-L TAC Diff
ZDC TAC Diff
Entries 109194
BBC-S TAC Diff
VPD TAC Diff
Entries 109194
BBC-S TAC Diff
ZDC TAC Diff
Entries 109194
VPD TAC Diff
ZDC TAC Diff

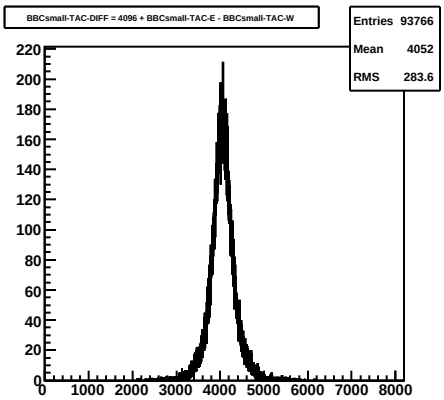

ZDC-TAC-E
Entries 4073
Mean 242.3
RMS 32.79

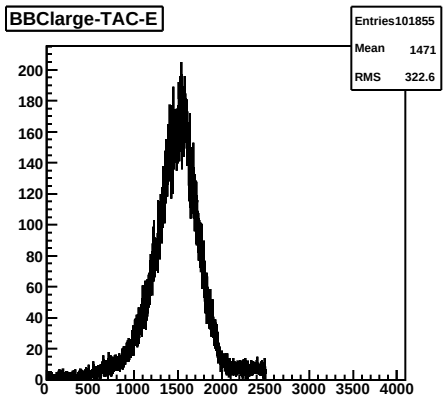

ZDC-TAC-W
Entries 2973
Mean 216
RMS 36.8

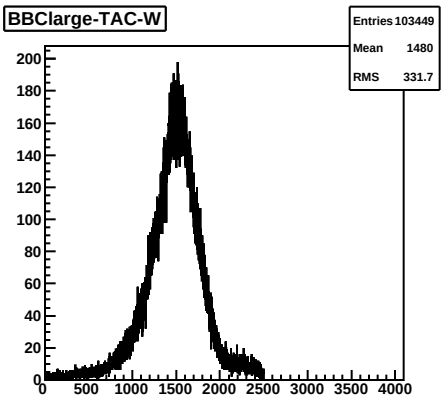

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 258
Mean 522.9
RMS 23.24

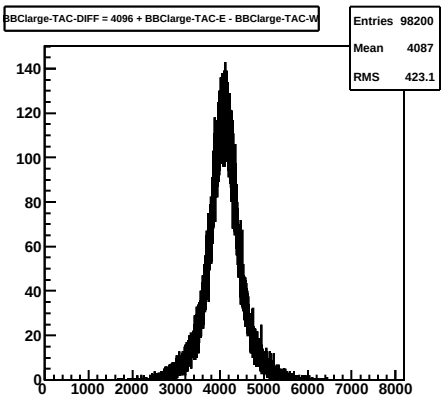

BBCsmall-TAC-E
Entries 99073
Mean 1493
RMS 218

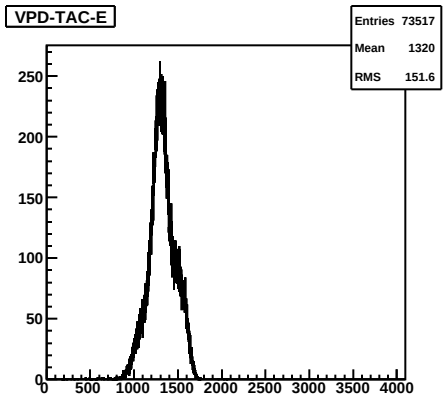

BBCsmall-TAC-W
Entries 101136
Mean 1536
RMS 233.4

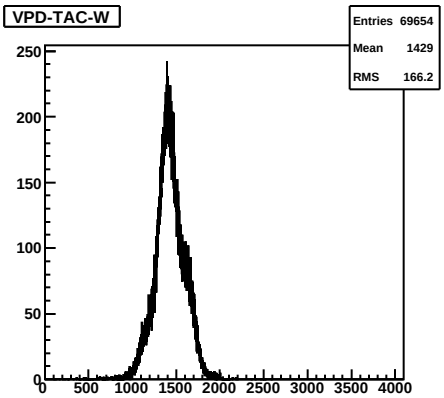

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 93766
Mean 4052
RMS 283.6

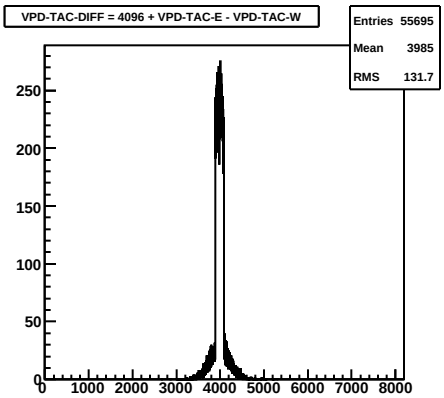

BBClarge-TAC-E
Entries 101855
Mean 1471
RMS 322.6

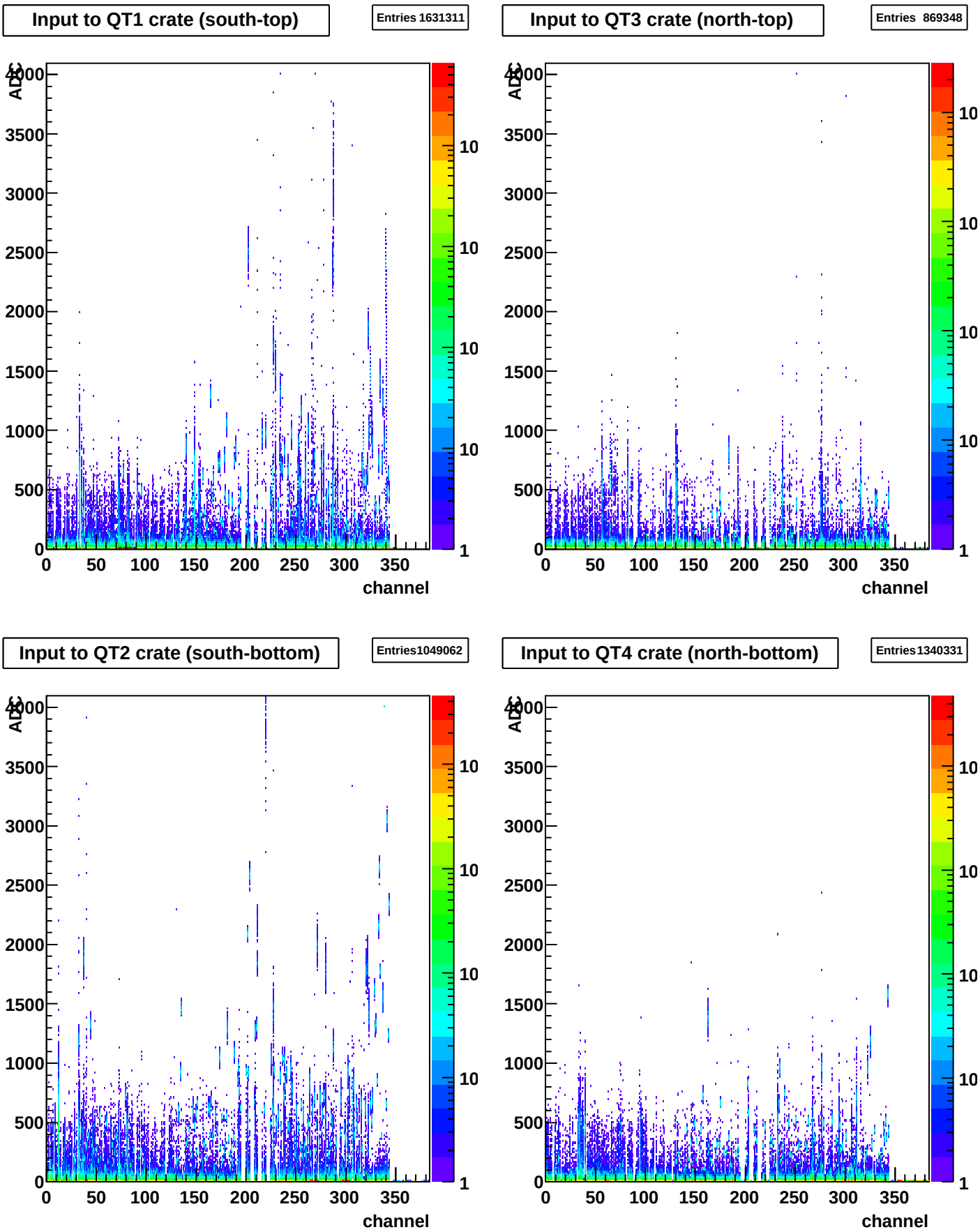

BBClarge-TAC-W
Entries 103449
Mean 1480
RMS 331.7

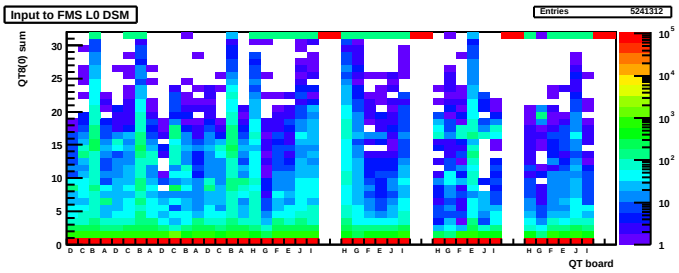

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 98200
Mean 4087
RMS 423.1

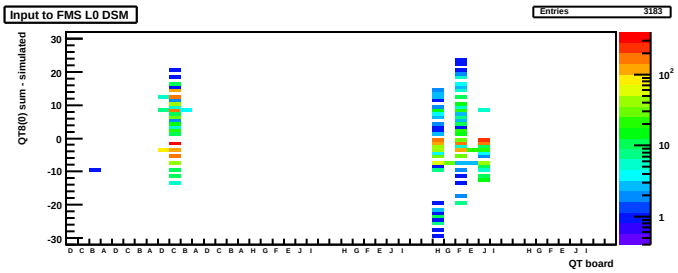

VPD-TAC-E
Entries 73517
Mean 1320
RMS 151.6

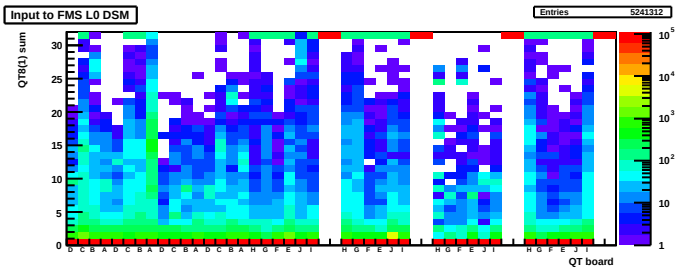

VPD-TAC-W
Entries 69654
Mean 1429
RMS 166.2

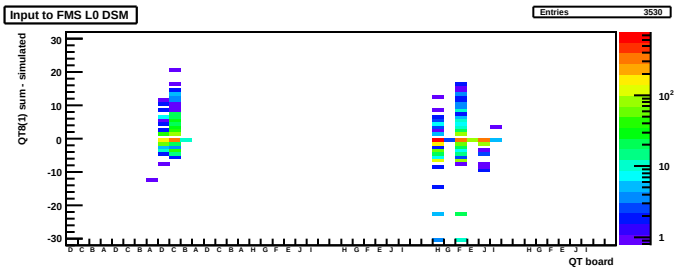

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 55695
Mean 3985
RMS 131.7

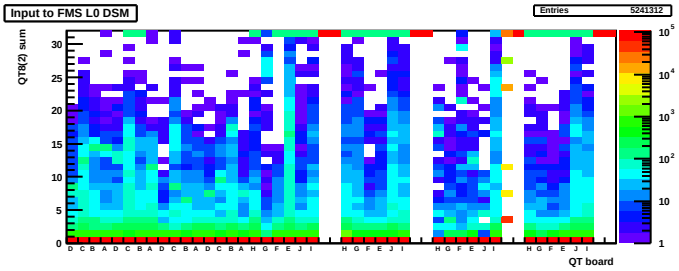

Input to QT1 crate (south-top)
Entries 1631311
Input to QT3 crate (north-top)
Entries 869348
Input to QT2 crate (south-bottom)
Entries1049062
Input to QT4 crate (north-bottom)
Entries1340331
ADC
channel

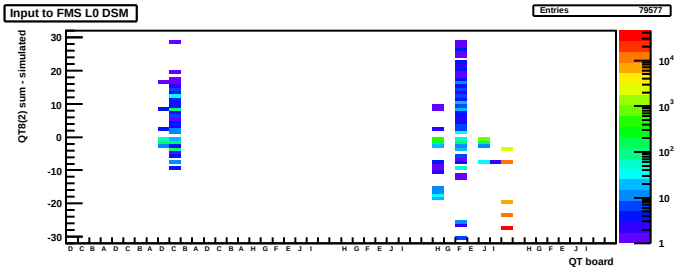

Input to FMS L0 DSM
Entries 5241312
QT8(0) sum
QT board

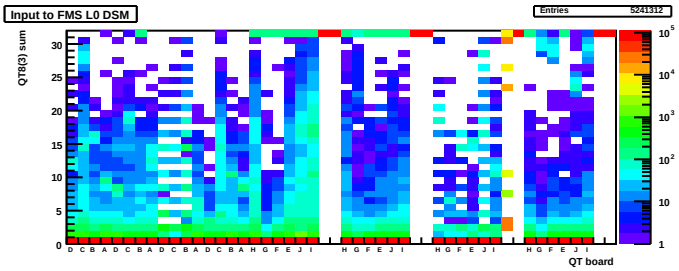

Input to FMS L0 DSM
Entries 3183
QT8(0) sum - simulated
QT board

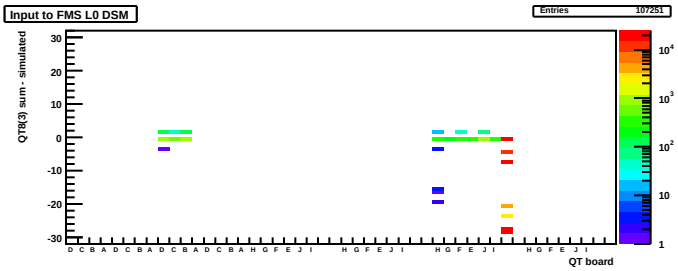

Input to FMS L0 DSM
Entries 5241312
QT8(1) sum
QT board

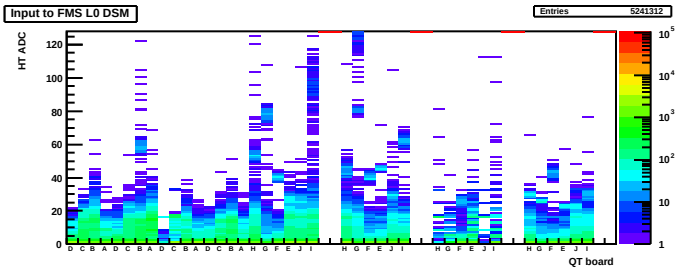

Input to FMS L0 DSM
Entries 3530
QT8(1) sum - simulated
QT board

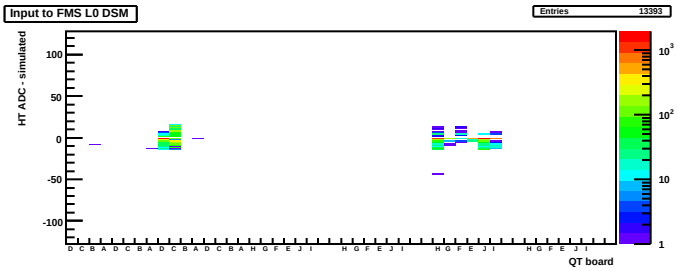

Input to FMS L0 DSM
Entries 5241312
QT8(2) sum
QT board

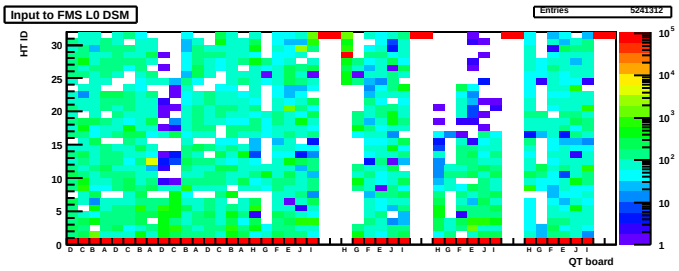

Input to FMS L0 DSM
Entries 79577
QT8(2) sum - simulated
QT board

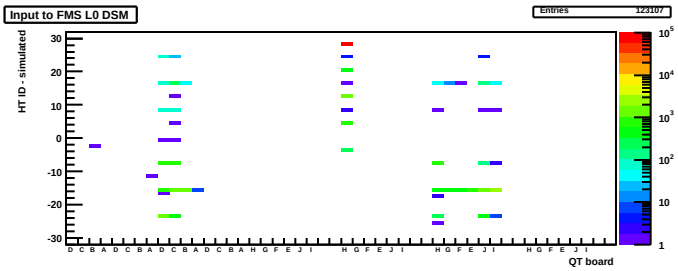

Input to FMS L0 DSM
Entries 5241312
QT8(3) sum
QT board

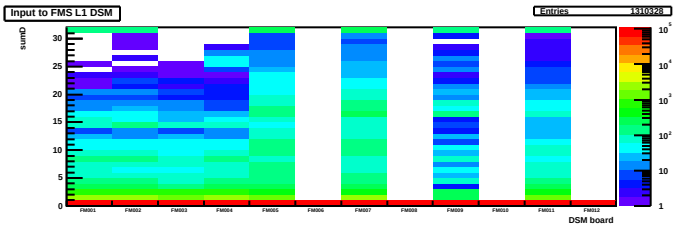

Input to FMS L0 DSM
Entries 107251
QT8(3) sum - simulated
QT board

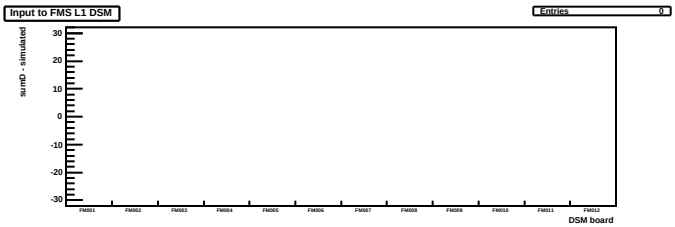

Input to FMS L0 DSM
Entries 5241312
HT ADC
QT board

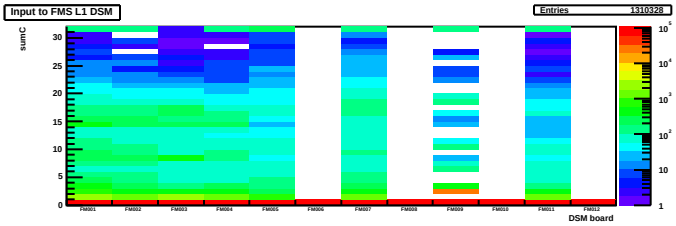

Input to FMS L0 DSM
Entries 13393
HT ADC - simulated
QT board

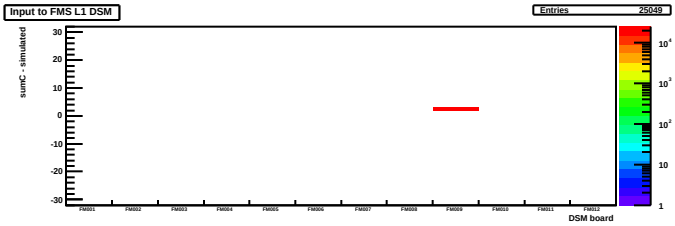

Input to FMS L0 DSM
Entries 5241312
HT ID
QT board

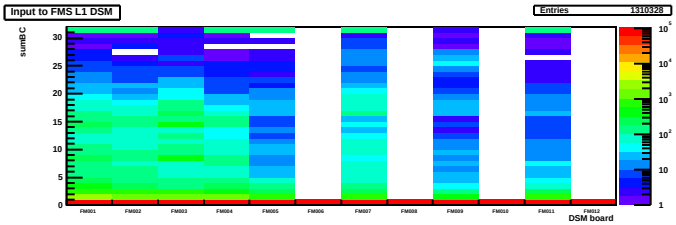

Input to FMS L0 DSM
Entries 123107
HT ID - simulated
QT board

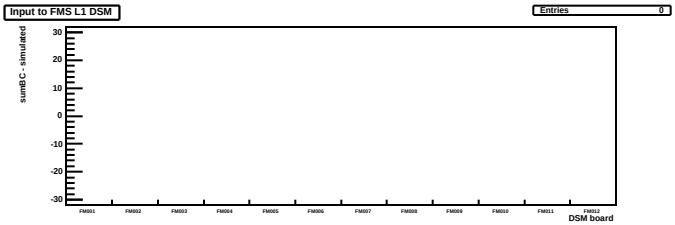

Input to FMS L1 DSM
Entries 1310328
sumD
DSM board

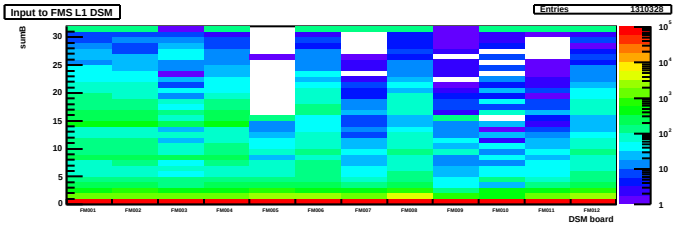

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

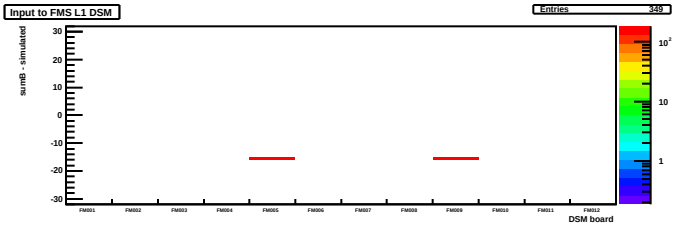

Input to FMS L1 DSM
Entries 1310328
sumC
DSM board

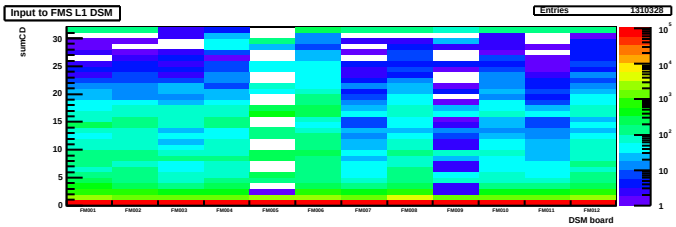

Input to FMS L1 DSM
Entries 25049
sumC - simulated
DSM board

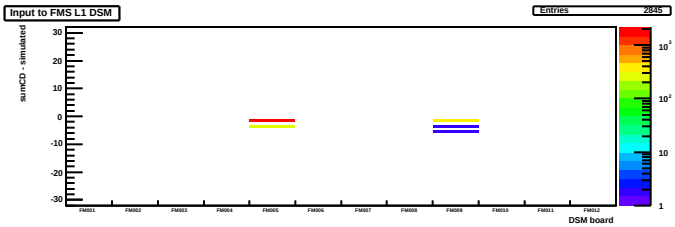

Input to FMS L1 DSM
Entries 1310328
sumBC
DSM board

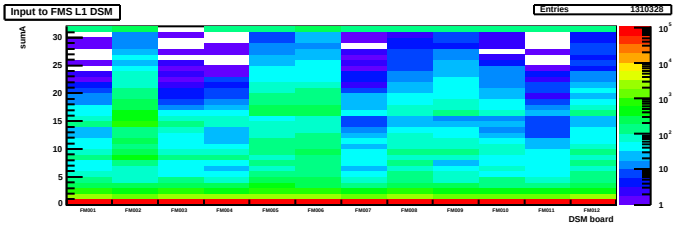

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

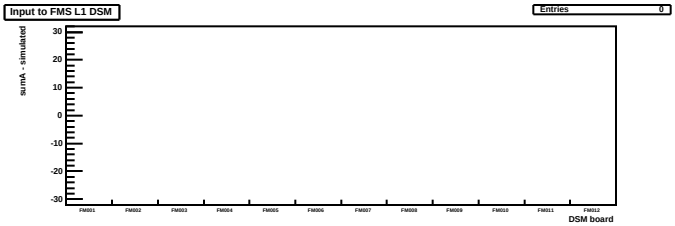

Input to FMS L1 DSM
Entries 1310328
sumB
DSM board

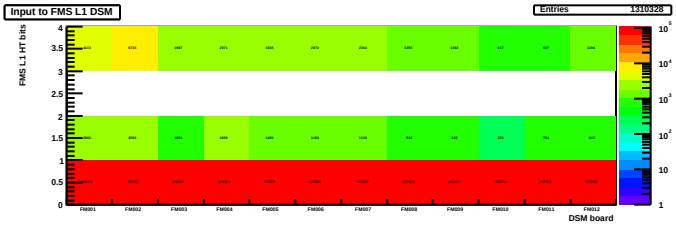

Input to FMS L1 DSM
Entries 349
sumB - simulated
DSM board

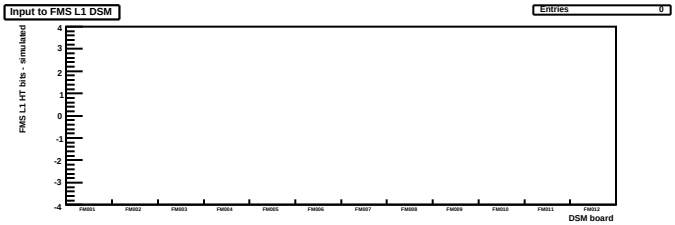

Input to FMS L1 DSM
Entries 1310328
sumCD
DSM board

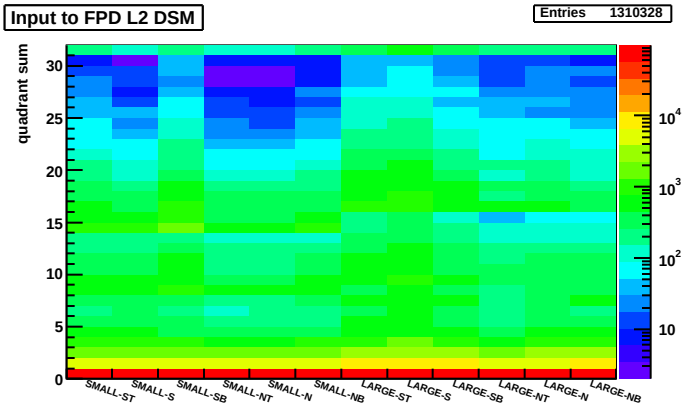

Input to FMS L1 DSM
Entries 2845
sumCD - simulated
DSM board

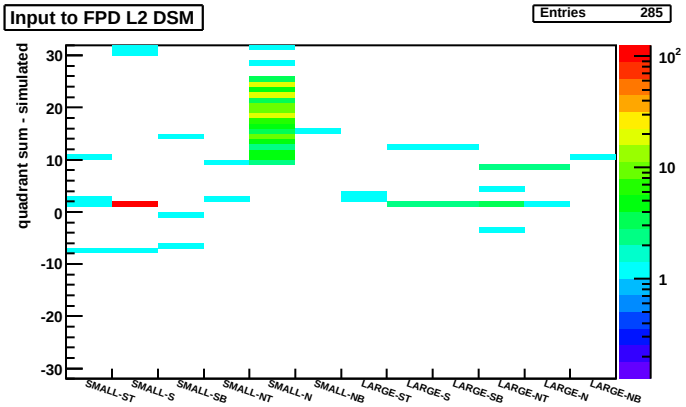

Input to FMS L1 DSM
Entries 1310328
sumA
DSM board

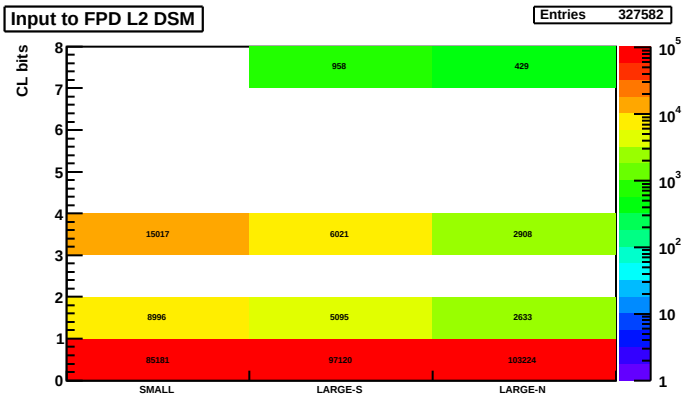

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

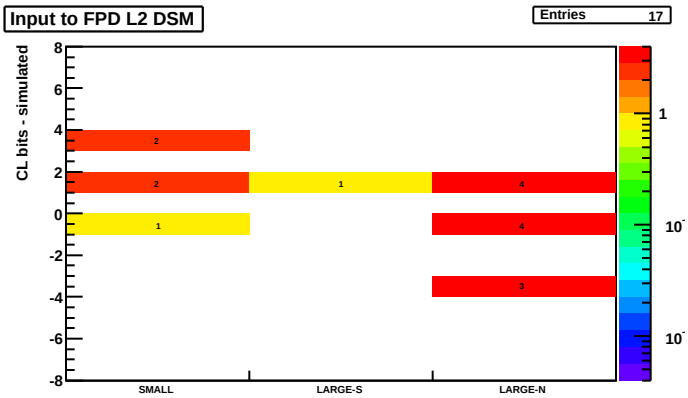

Input to FMS L1 DSM
Entries 1310328
FMS L1 HT bits
DSM board

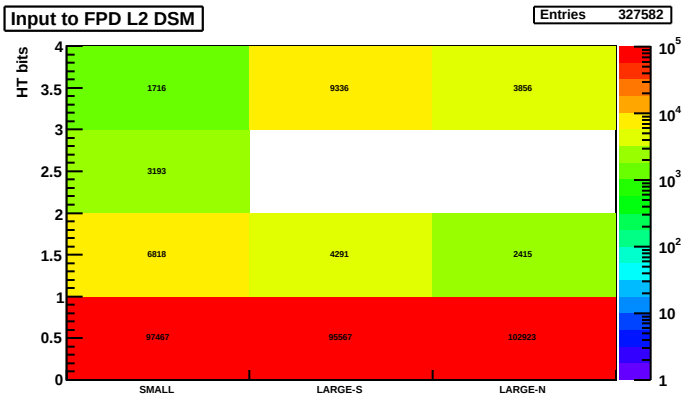

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

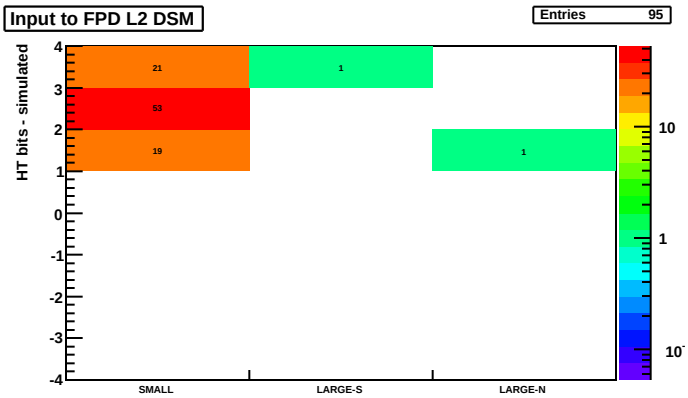

Input to FPD L2 DSM
Entries 1310328
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

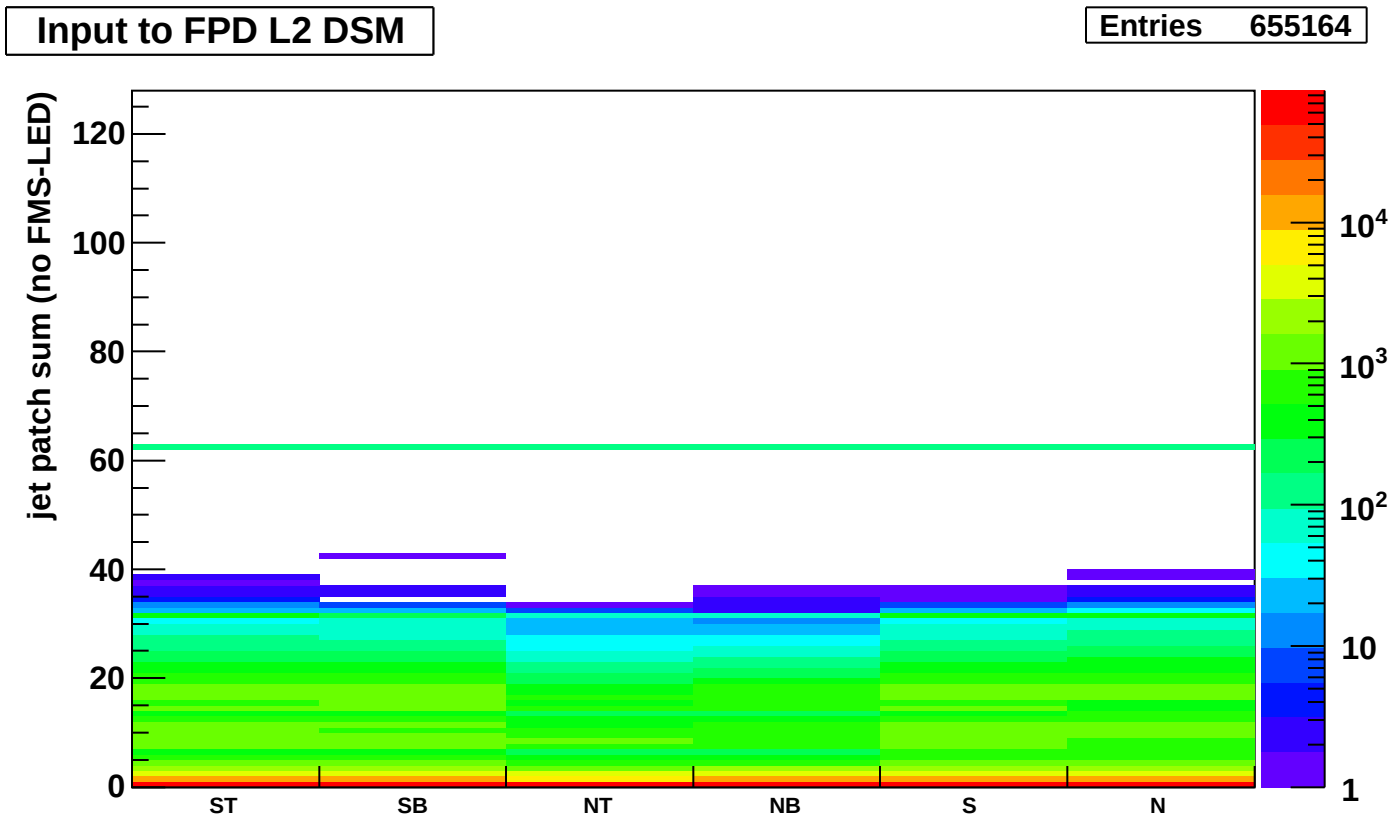

Input to FPD L2 DSM
Entries 285
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

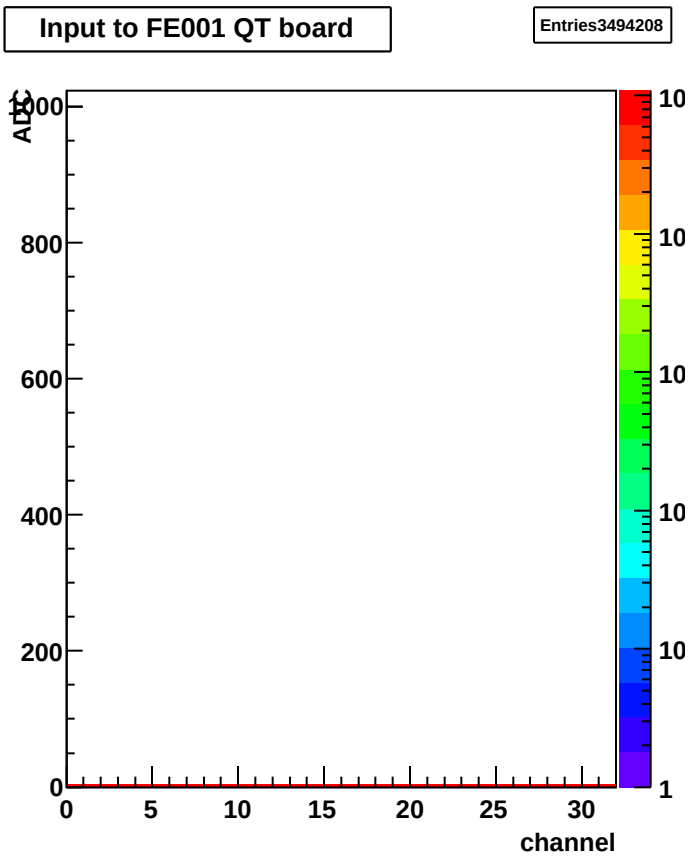

Input to FPD L2 DSM
Entries 327582
CL bits
958
429
15017
6021
2908
8996
5095
2633
85181
97120
103224
SMALL
LARGE-S
LARGE-N

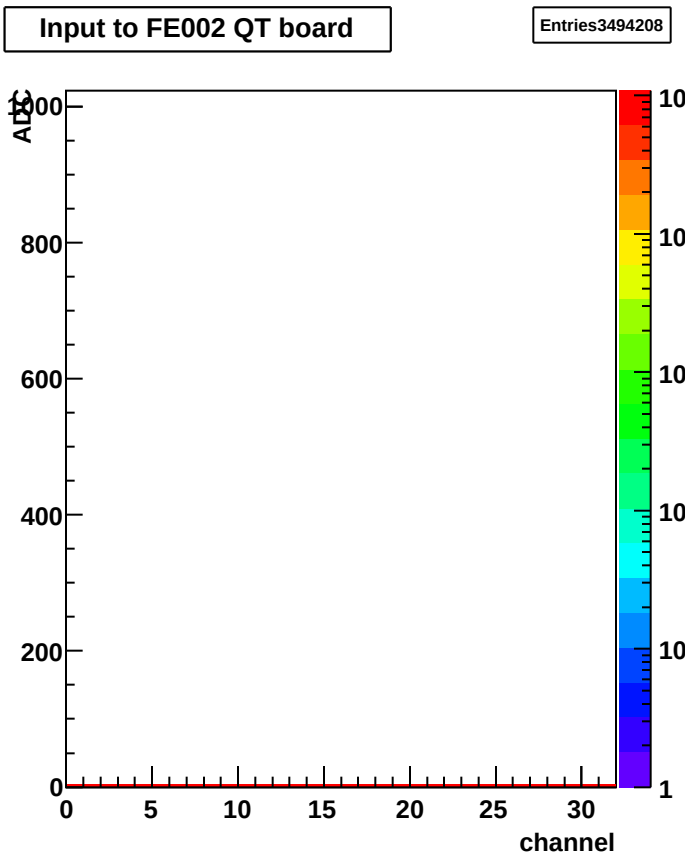

Input to FPD L2 DSM
Entries 17
CL bits - simulated
2
2
1
4
1
4
3
SMALL
LARGE-S
LARGE-N

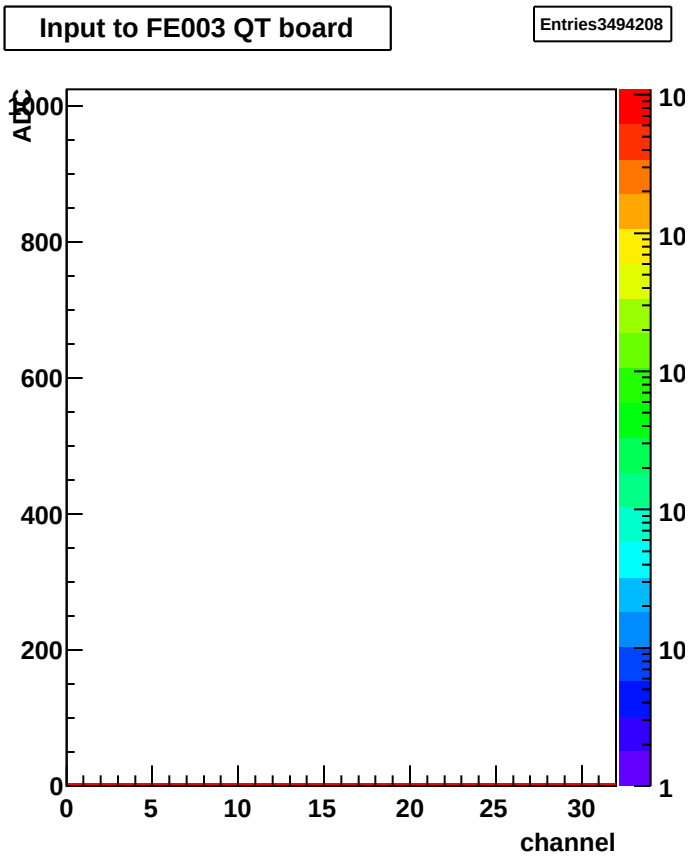

Input to FPD L2 DSM
Entries 327582
HT bits
1716
9336
3856
3193
6818
4291
2415
97467
95567
102923
SMALL
LARGE-S
LARGE-N

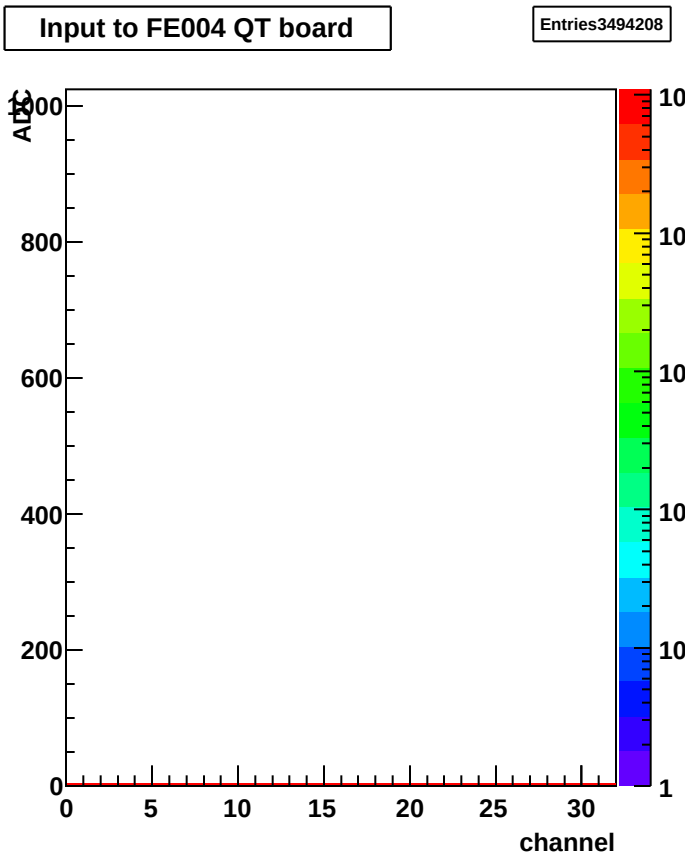

Input to FPD L2 DSM
Entries 95
HT bits - simulated
21
1
53
19
1
SMALL
LARGE-S
LARGE-N

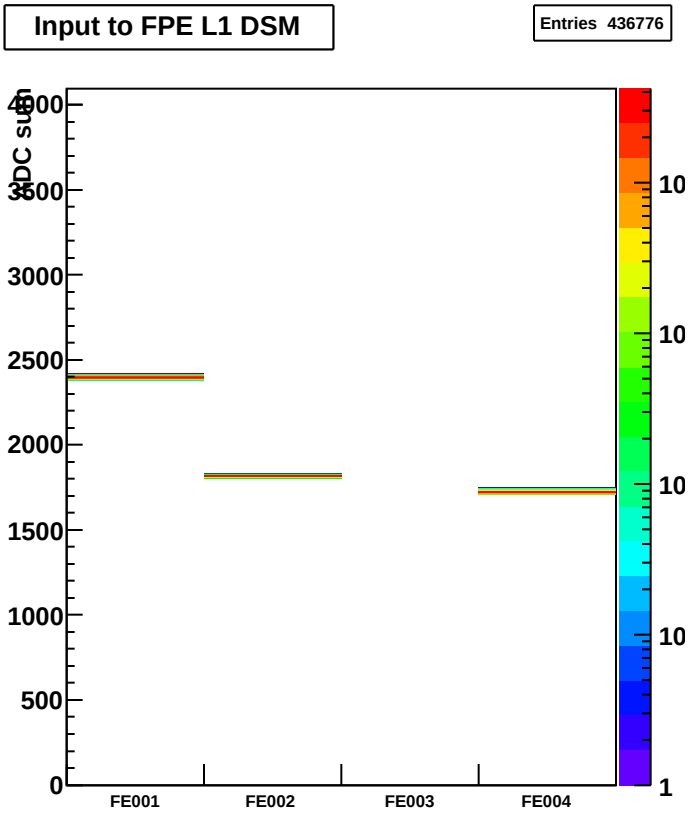

Input to FPD L2 DSM
Entries 655164
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4

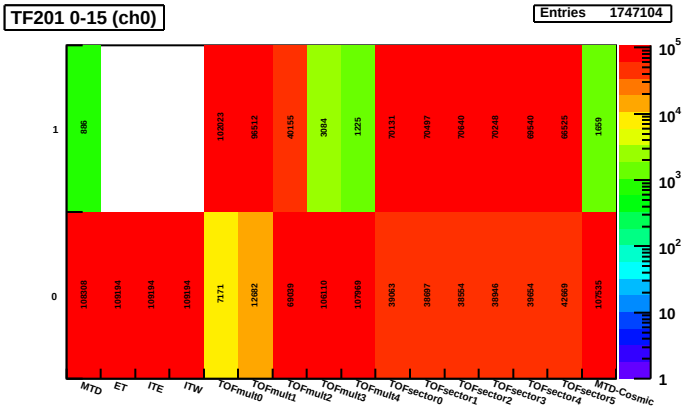

Input to FE001 QT board
Entries3494208
ADC
channel

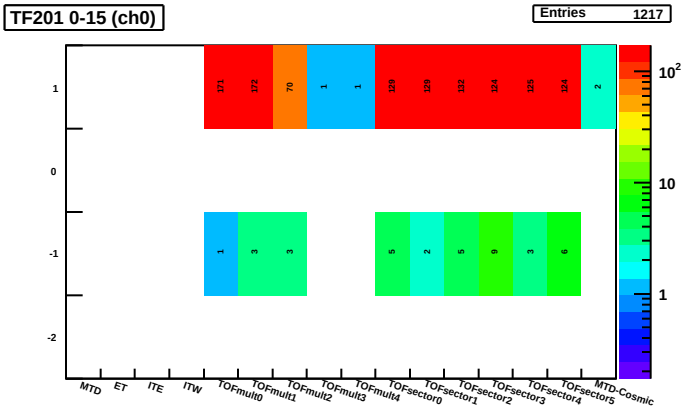

Input to FE002 QT board
Entries3494208
ADC
channel

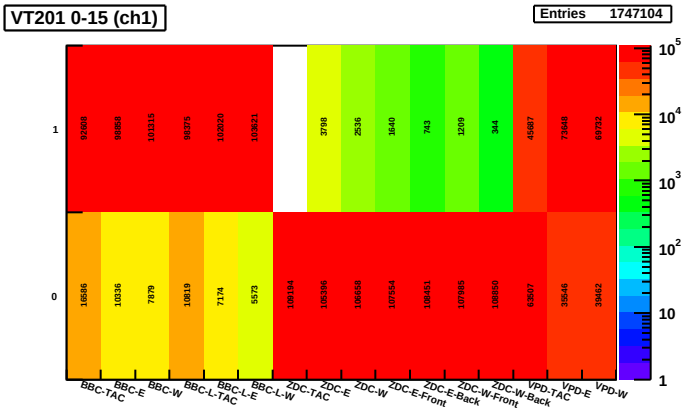

Input to FE003 QT board
Entries3494208
ADC
channel

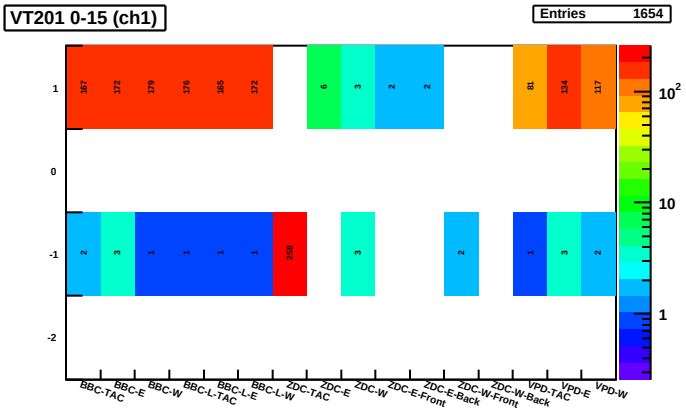

Input to FE004 QT board
Entries3494208
ADC
channel

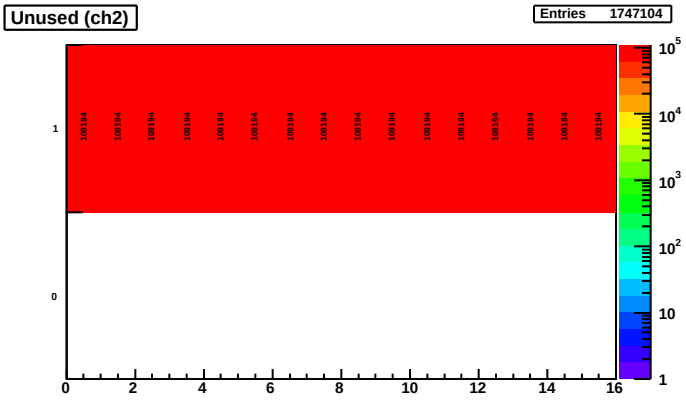

Input to FPE L1 DSM
Entries 436776
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

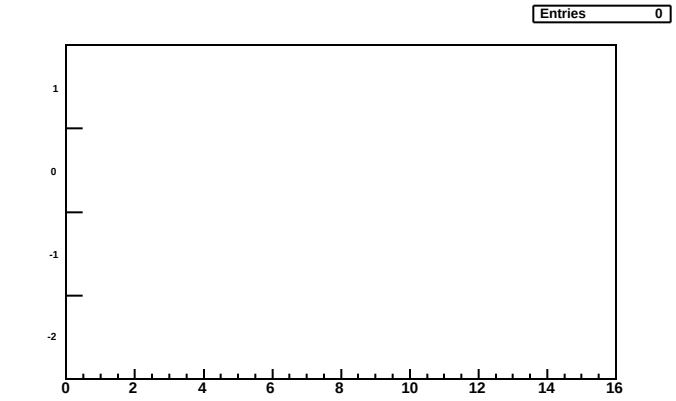

TF201 0-15 (ch0)
Entries 1747104
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

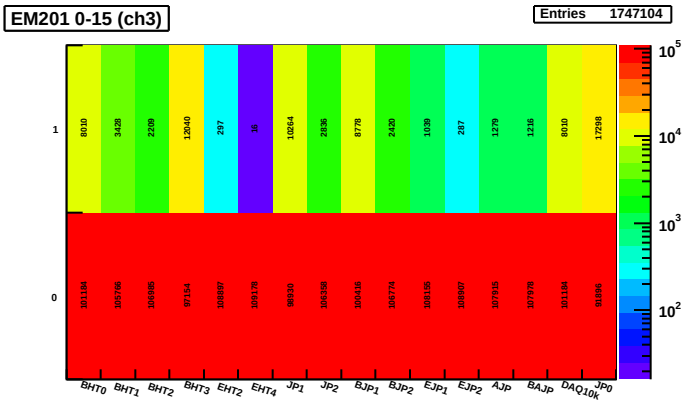

TF201 0-15 (ch0)
Entries 1217
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

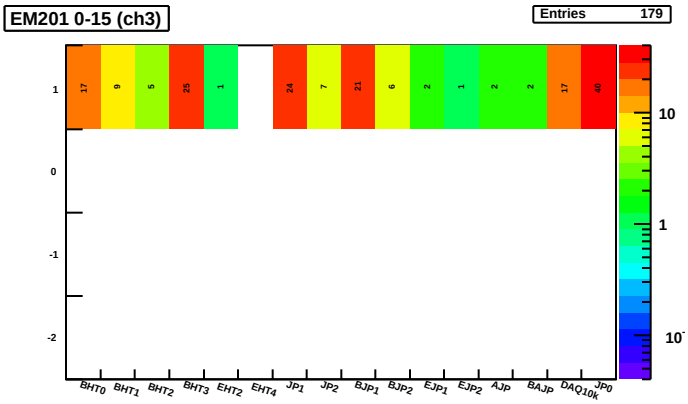

VT201 0-15 (ch1)
Entries 1747104
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1654
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 1747104


Entries 0


EM201 0-15 (ch3)
Entries 1747104
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


EM201 0-15 (ch3)
Entries 179
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

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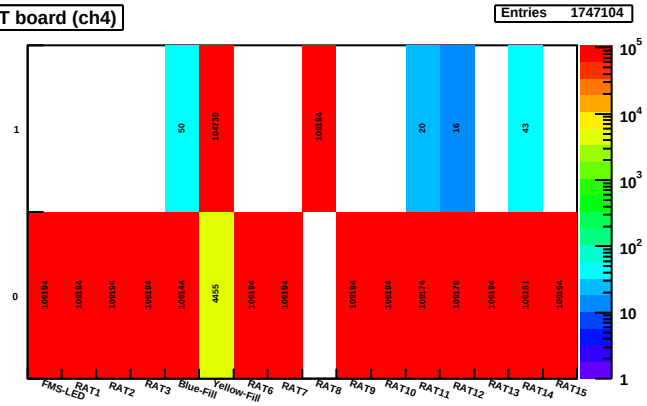

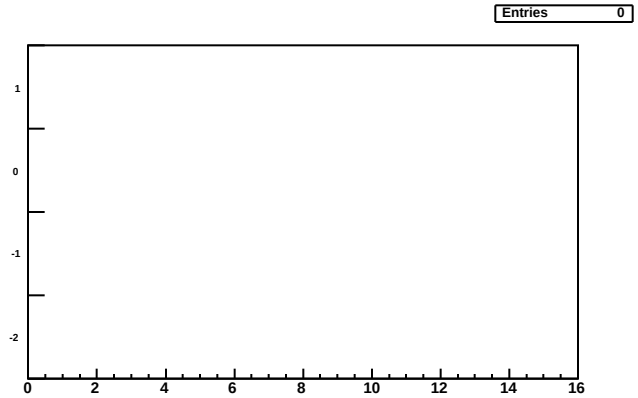

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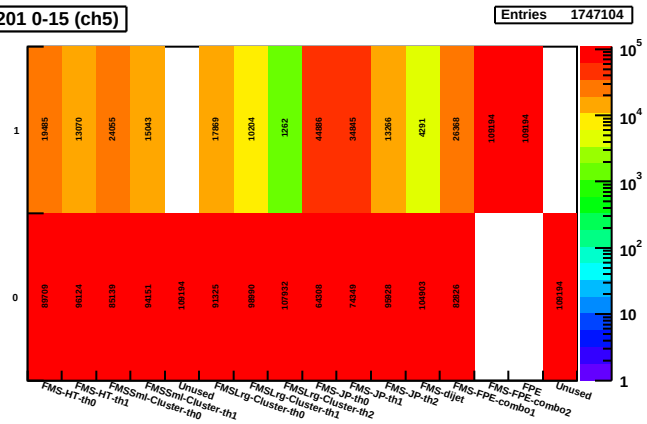

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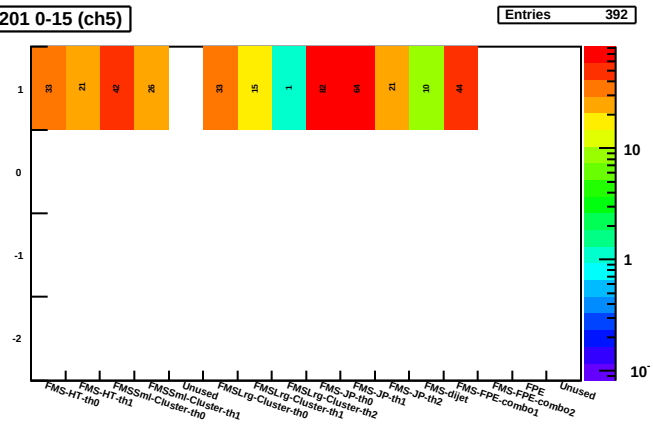

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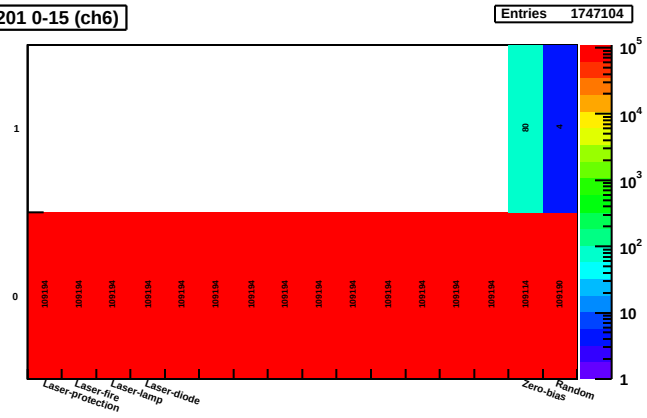

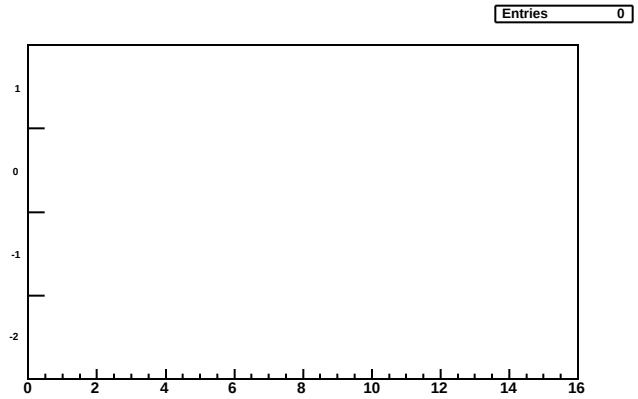
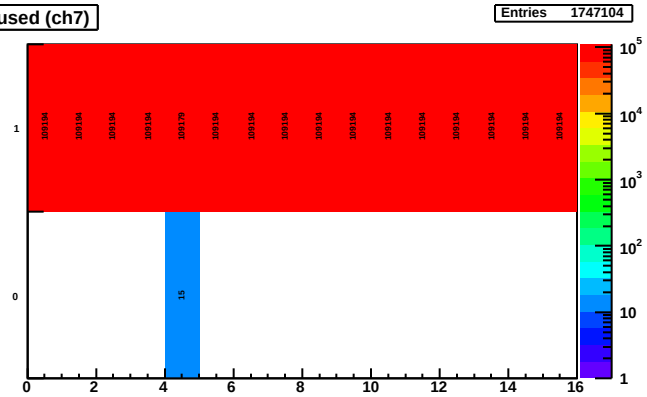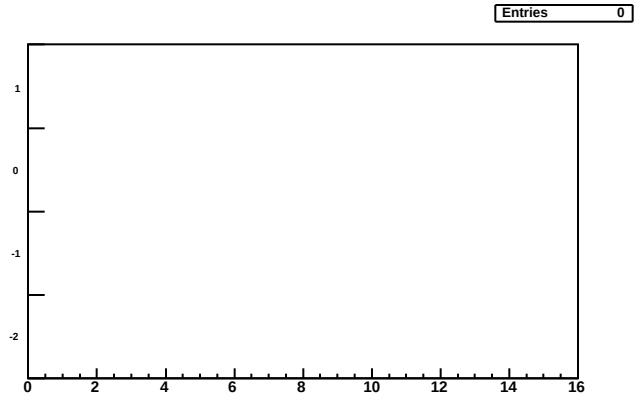
Unused (ch7)