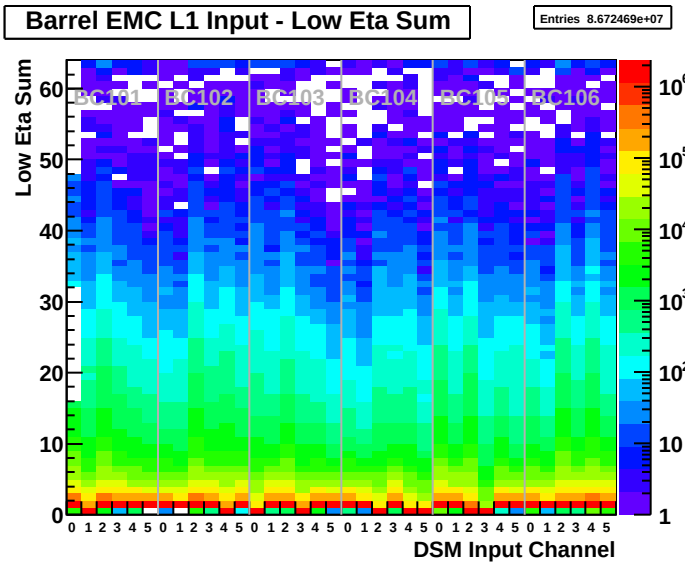
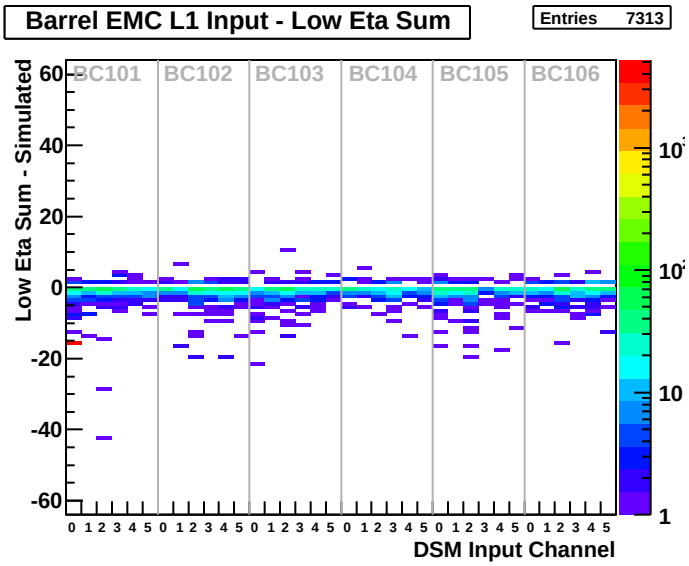
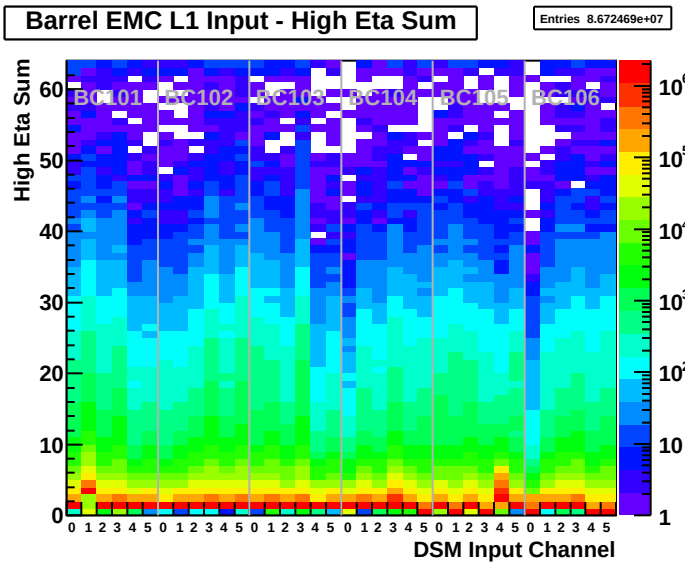
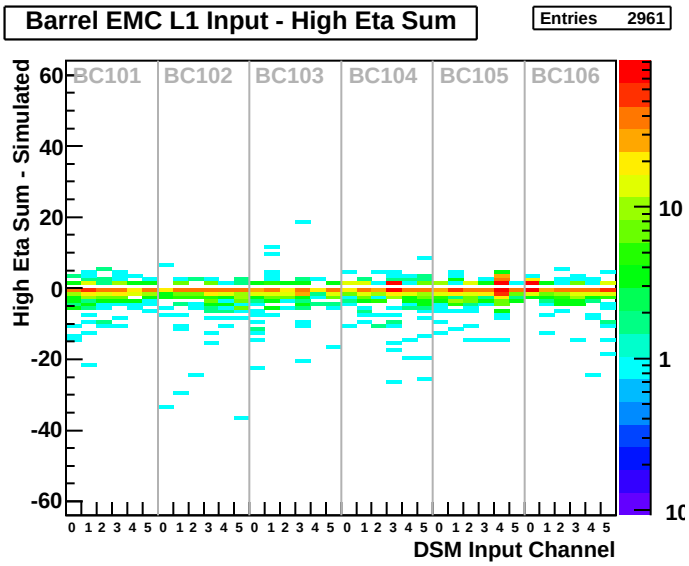
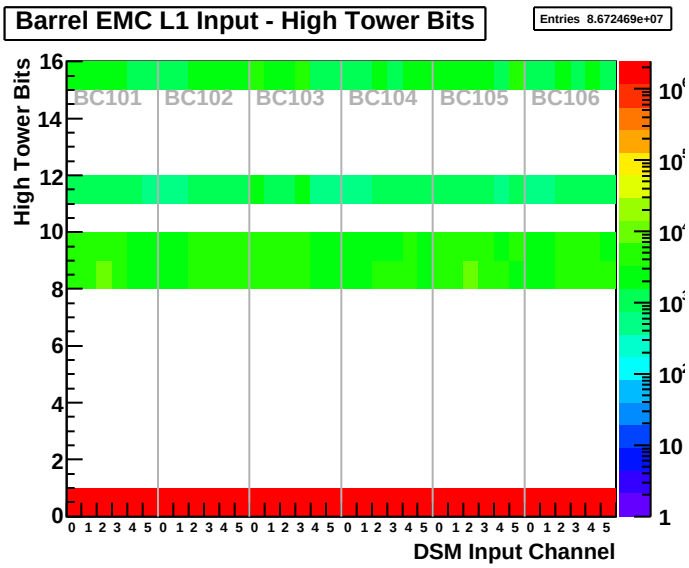
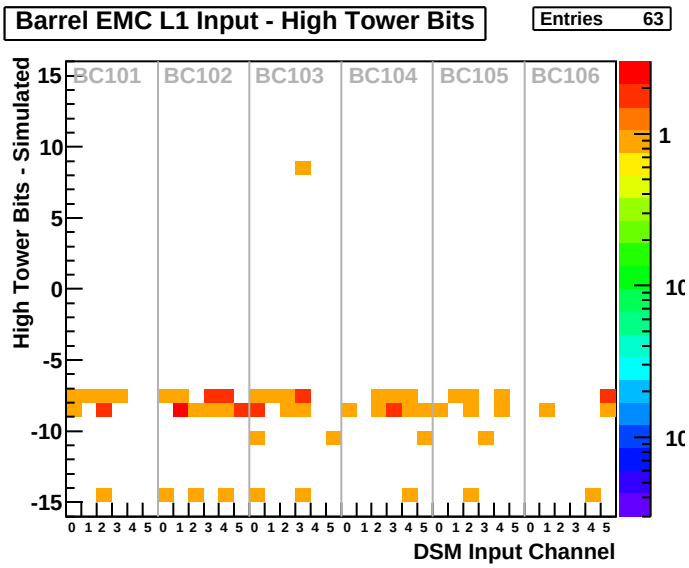

Barrel EMC L1 Input - Low Eta Sum
Entries 8.672469e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

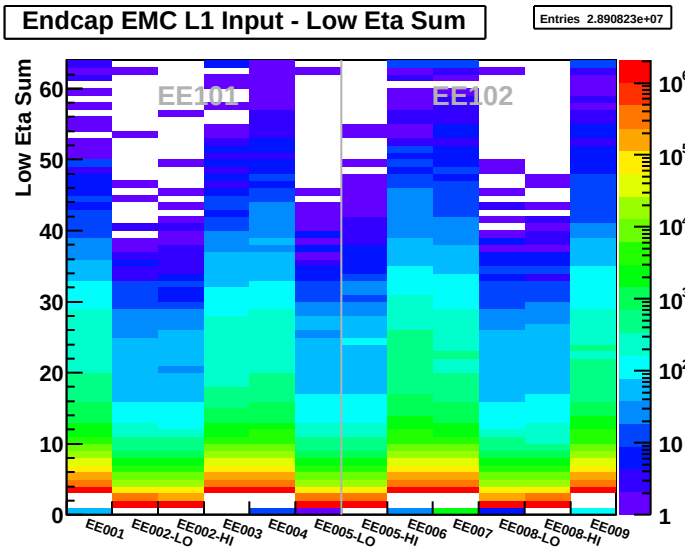

Barrel EMC L1 Input - Low Eta Sum
Entries 7313
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

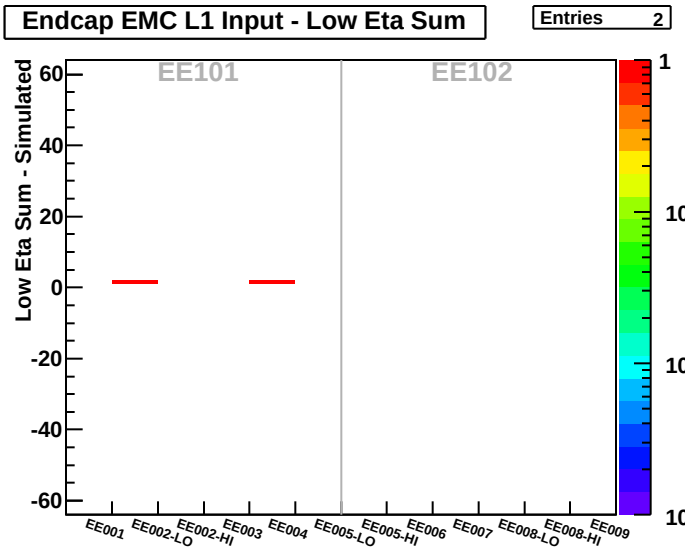

Barrel EMC L1 Input - High Eta Sum
Entries 8.672469e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

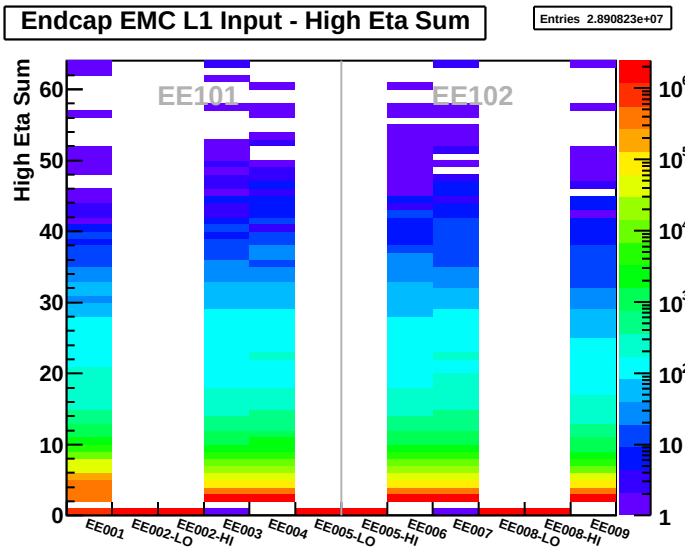

Barrel EMC L1 Input - High Eta Sum
Entries 2961
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

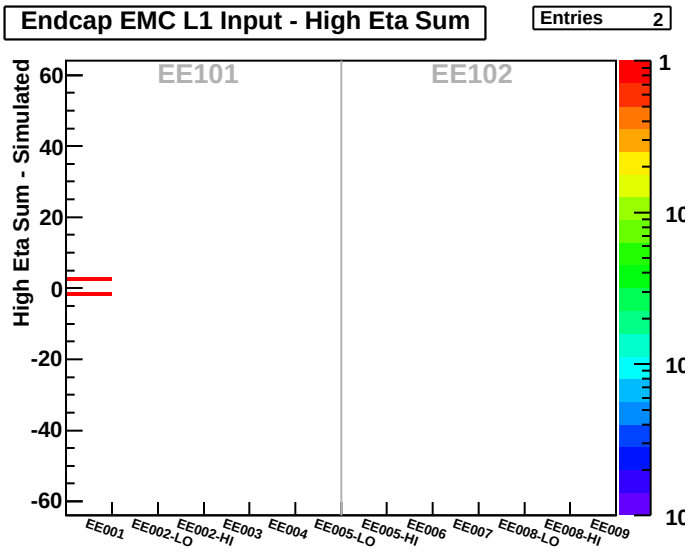

Barrel EMC L1 Input - High Tower Bits
Entries 8.672469e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

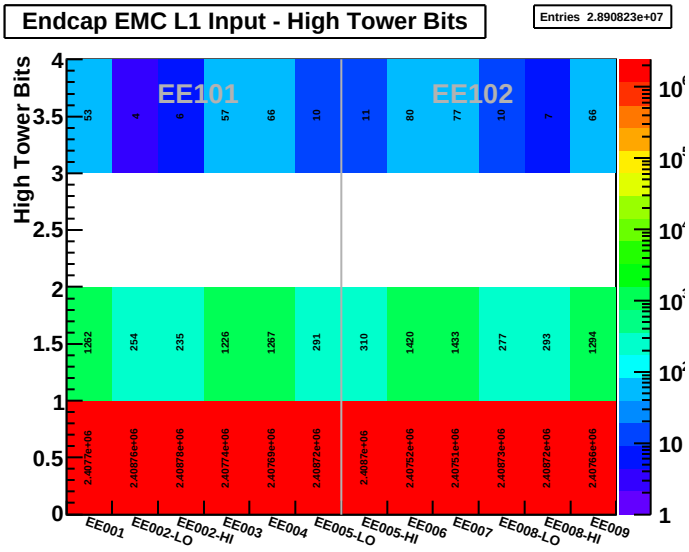

Barrel EMC L1 Input - High Tower Bits
Entries 63
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

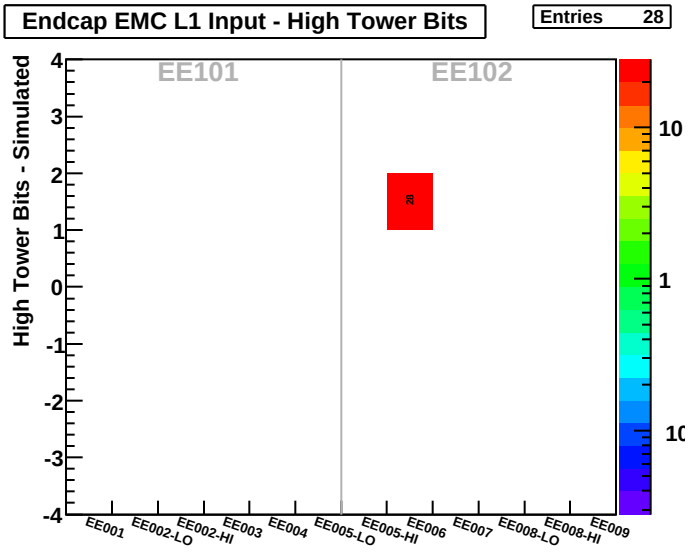

Endcap EMC L1 Input - Low Eta Sum
Entries 2.890823e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

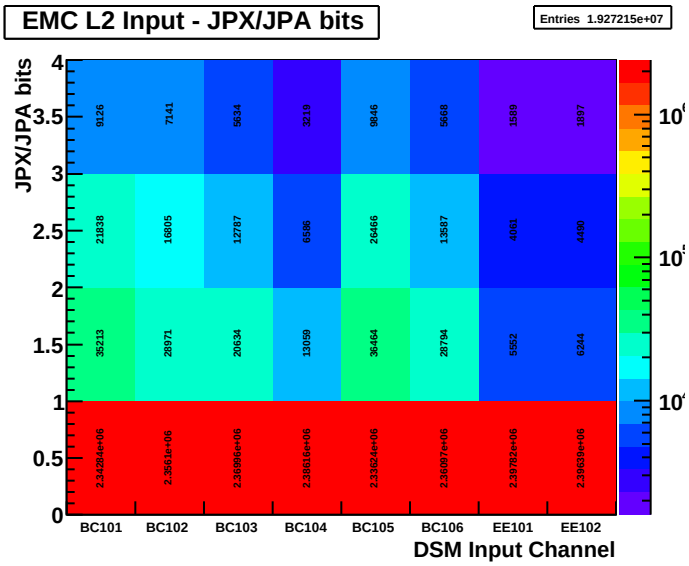

Endcap EMC L1 Input - Low Eta Sum
Entries 2
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

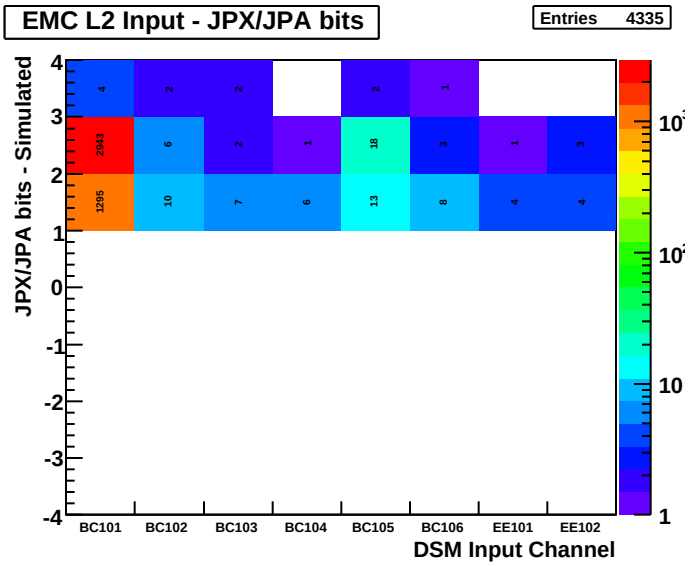

Endcap EMC L1 Input - High Eta Sum
Entries 2.890823e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

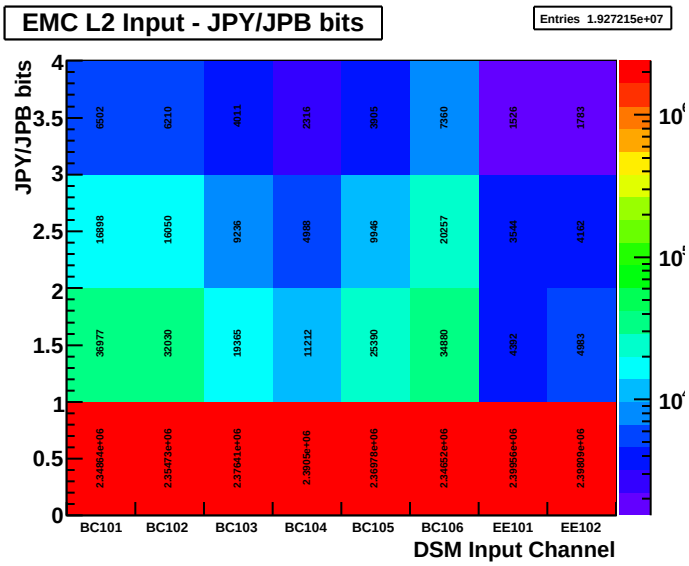

Endcap EMC L1 Input - High Eta Sum
Entries 2
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

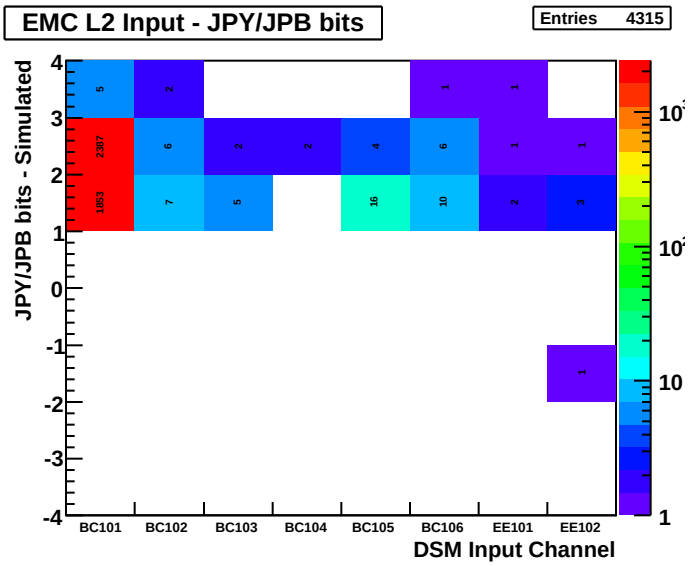

Endcap EMC L1 Input - High Tower Bits
Entries 2.890823e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

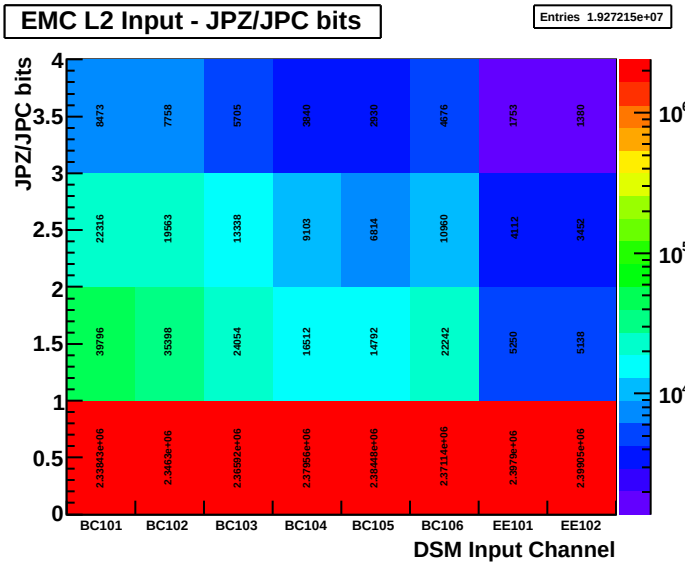

Endcap EMC L1 Input - High Tower Bits
Entries 28
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

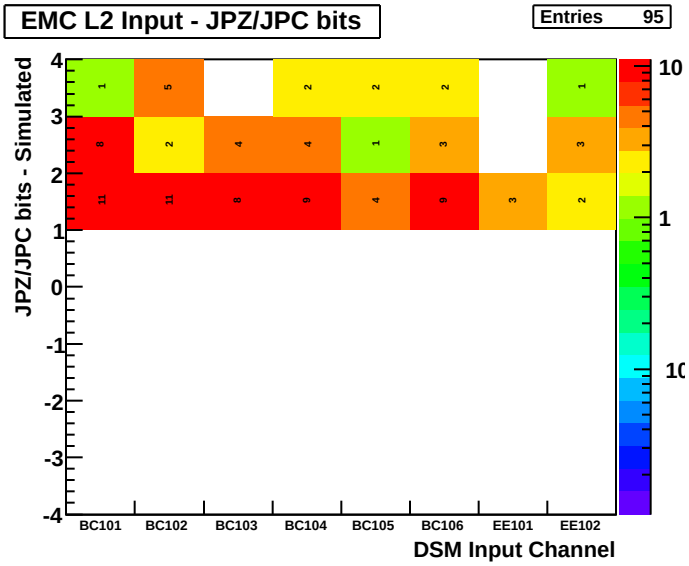

EMC L2 Input - JPX/JPA bits
Entries 1.927215e+07
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

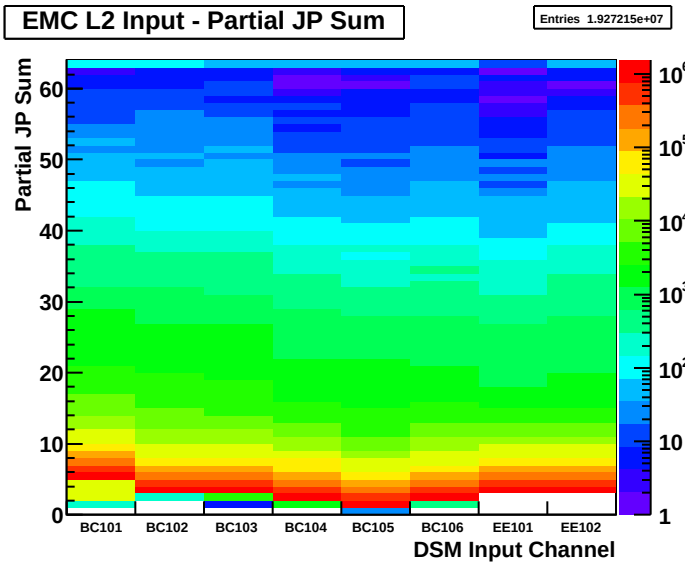

EMC L2 Input - JPX/JPA bits
Entries 4335
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

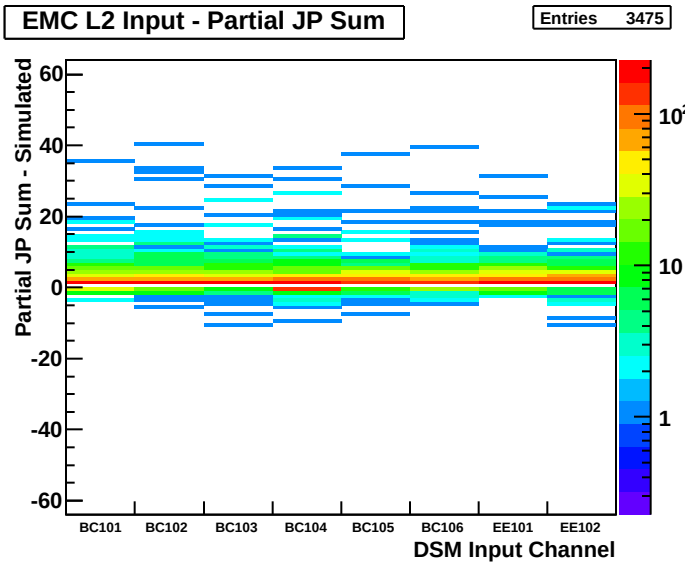

EMC L2 Input - JPY/JPB bits
Entries 1.927215e+07
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

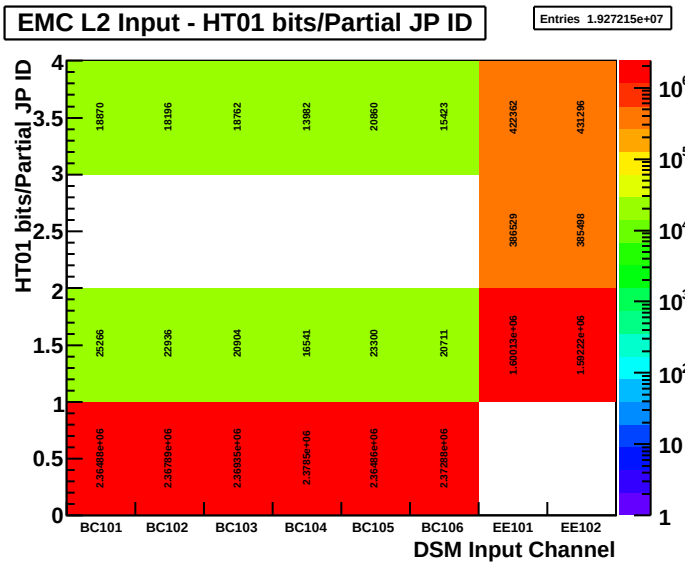

EMC L2 Input - JPY/JPB bits
Entries 4315
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

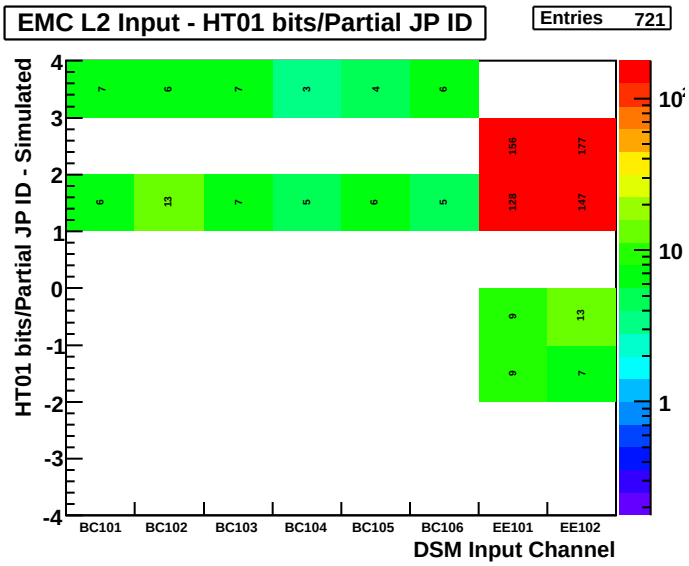

EMC L2 Input - JPZ/JPC bits
Entries 1.927215e+07
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

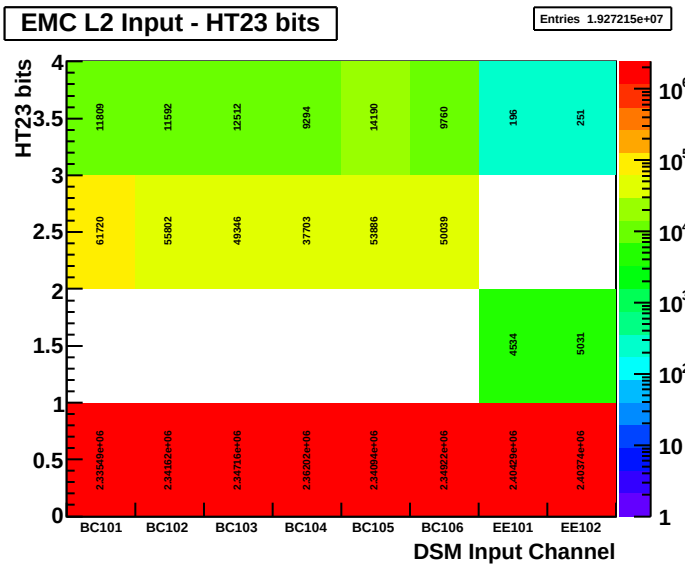

EMC L2 Input - JPZ/JPC bits
Entries 95
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

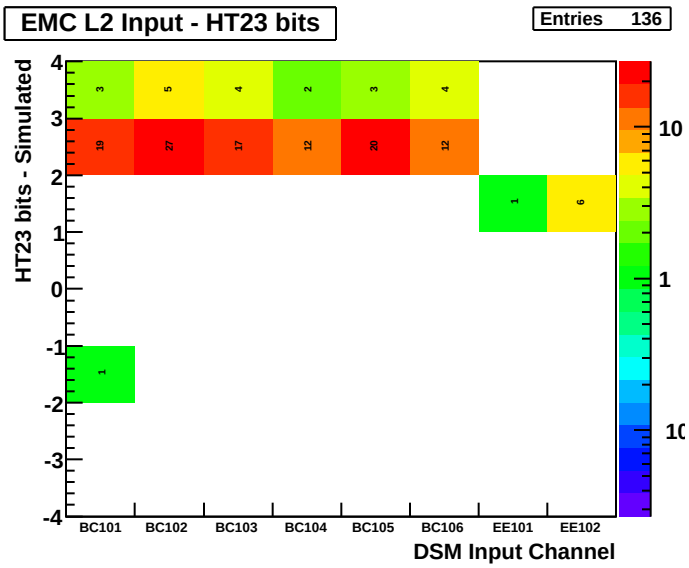

EMC L2 Input - Partial JP Sum
Entries 1.927215e+07
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

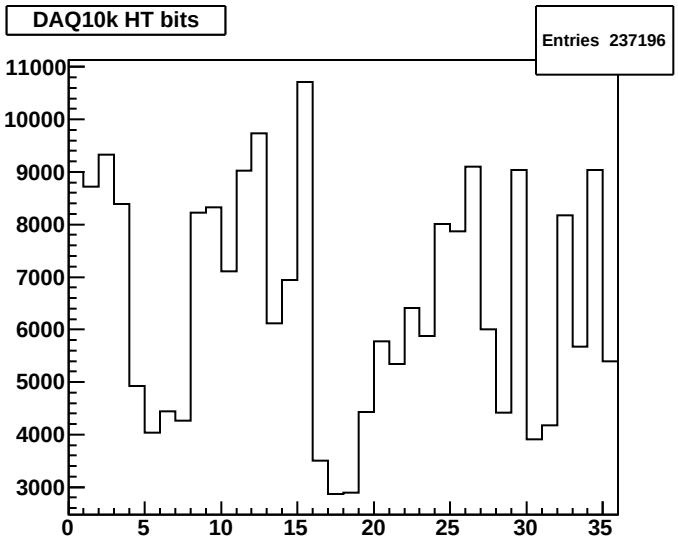

EMC L2 Input - Partial JP Sum
Entries 3475
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

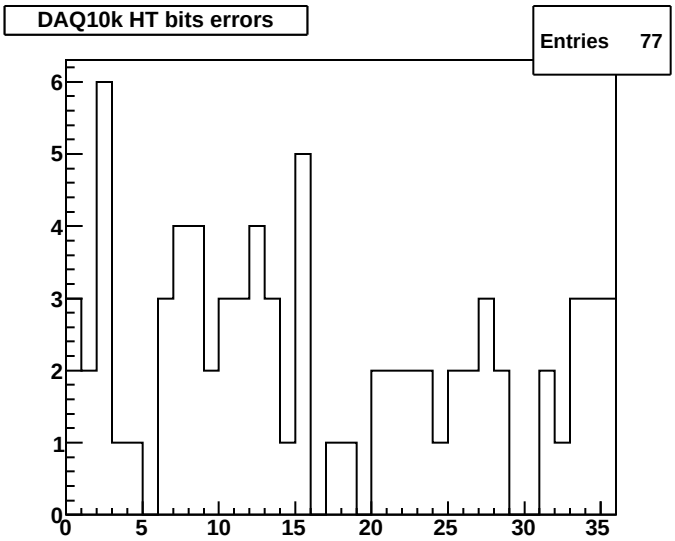

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1.927215e+07
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

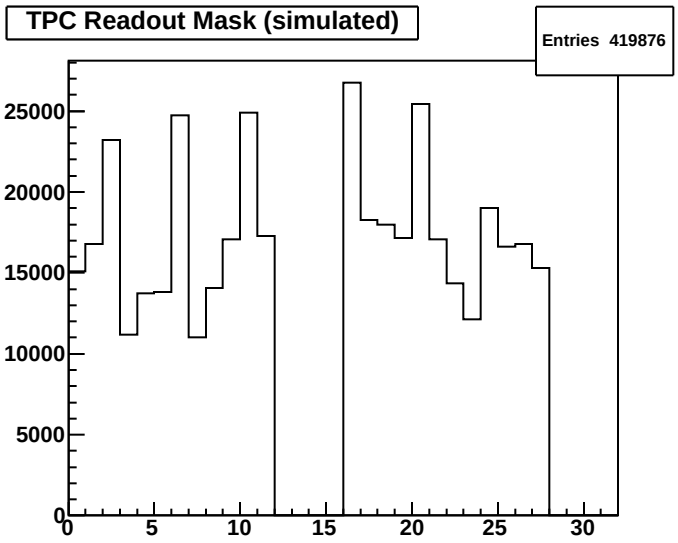

EMC L2 Input - HT01 bits/Partial JP ID
Entries 721
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

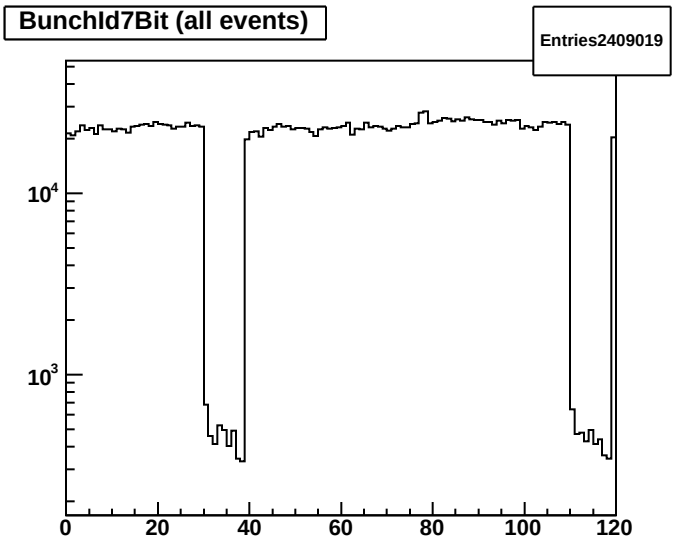

EMC L2 Input - HT23 bits
Entries 1.927215e+07
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

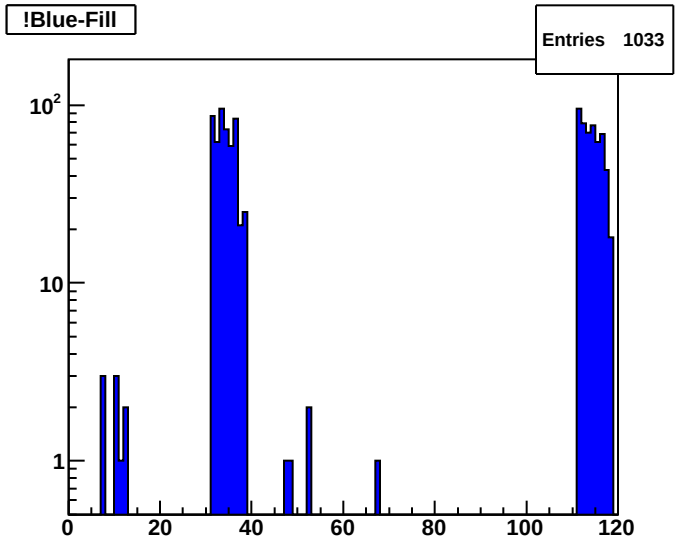

EMC L2 Input - HT23 bits
Entries 136
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

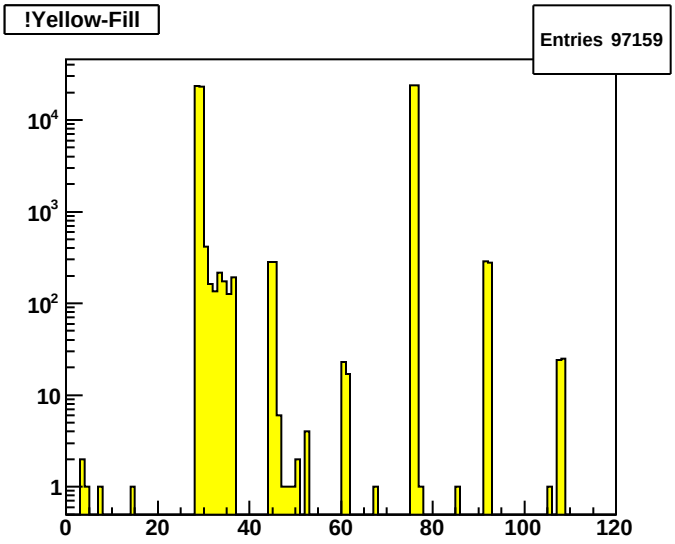

DAQ10k HT bits
Entries 237196

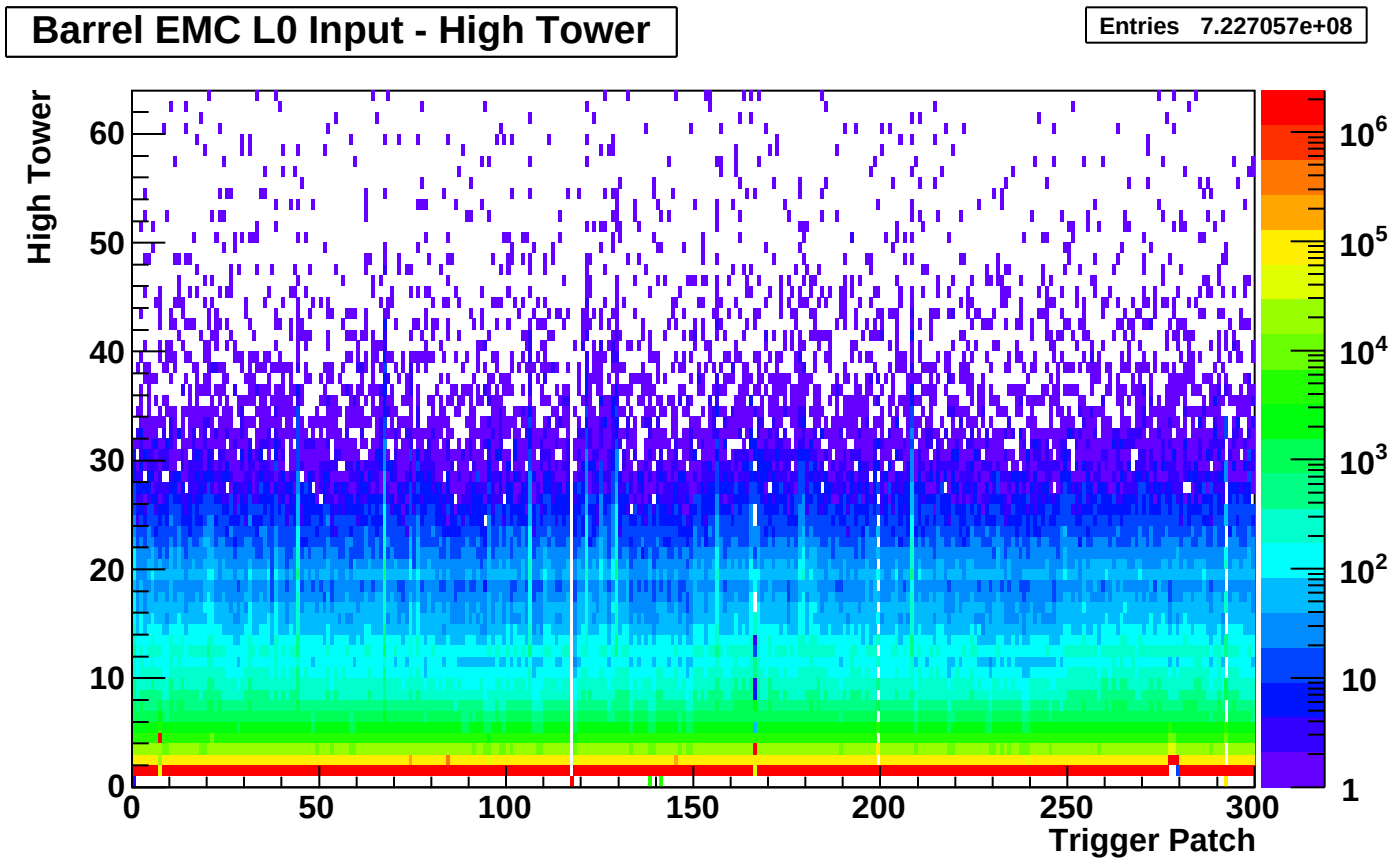

DAQ10k HT bits errors
Entries 77

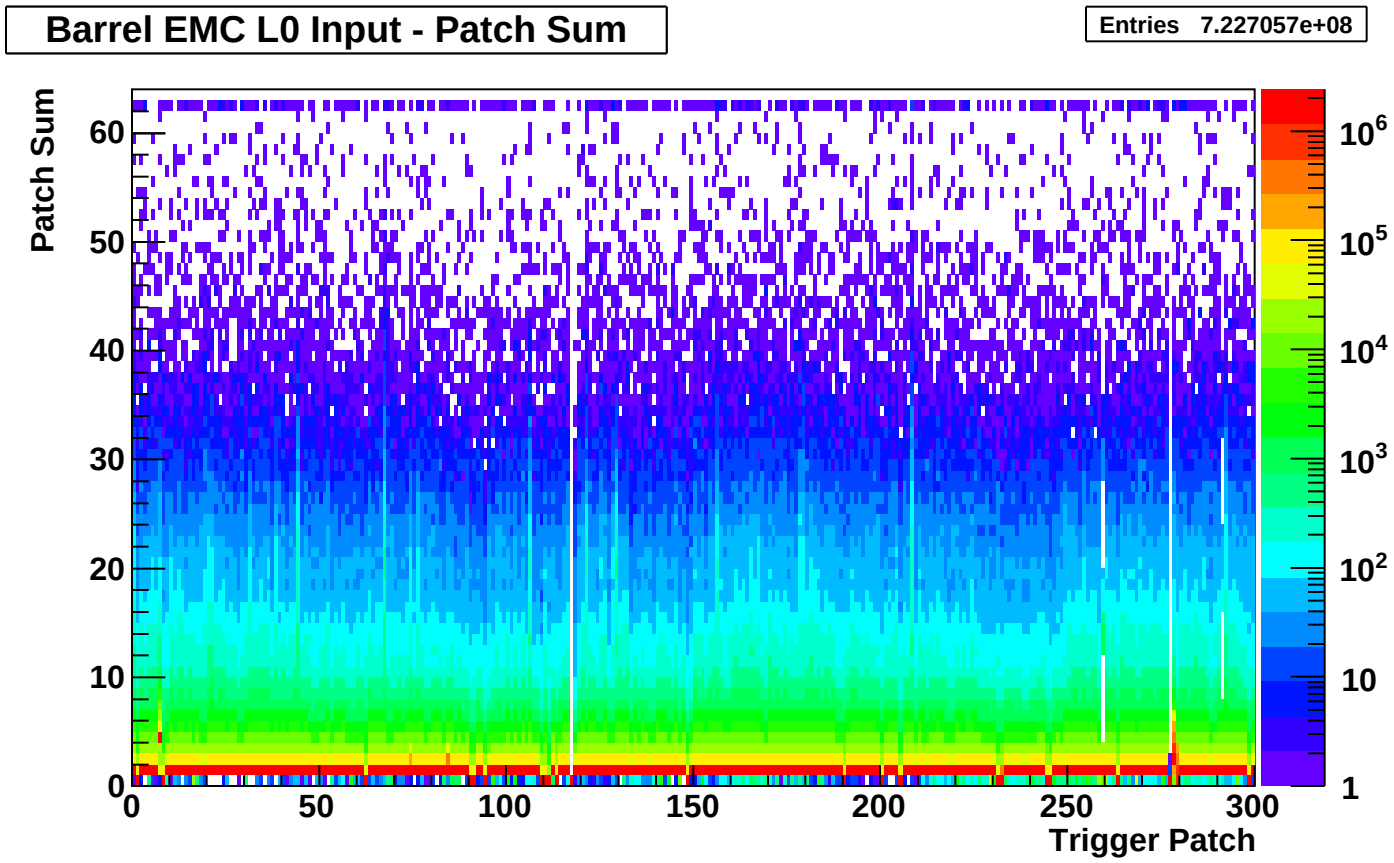

TPC Readout Mask (simulated)
Entries 419876

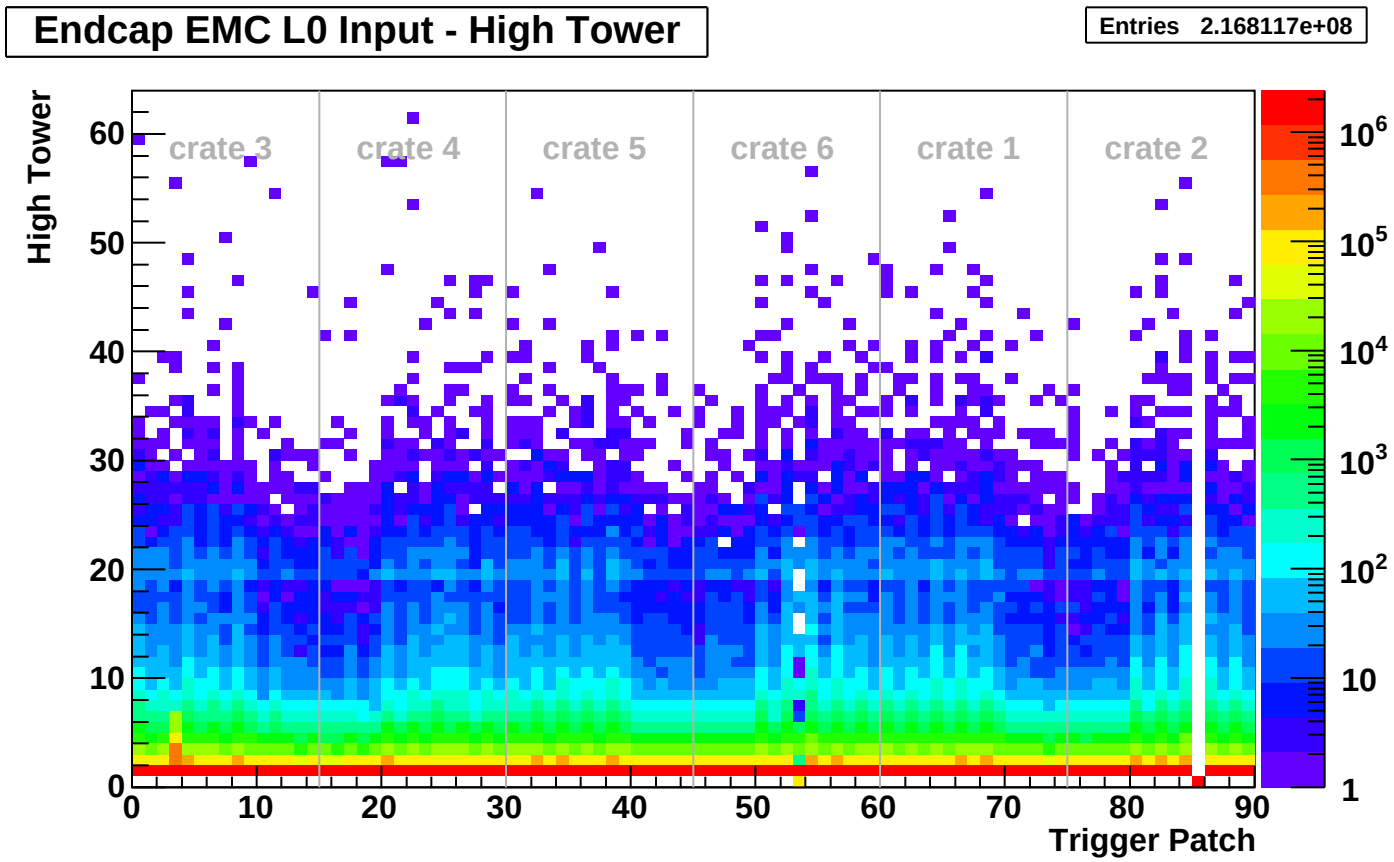

BunchId7Bit (all events)
Entries2409019

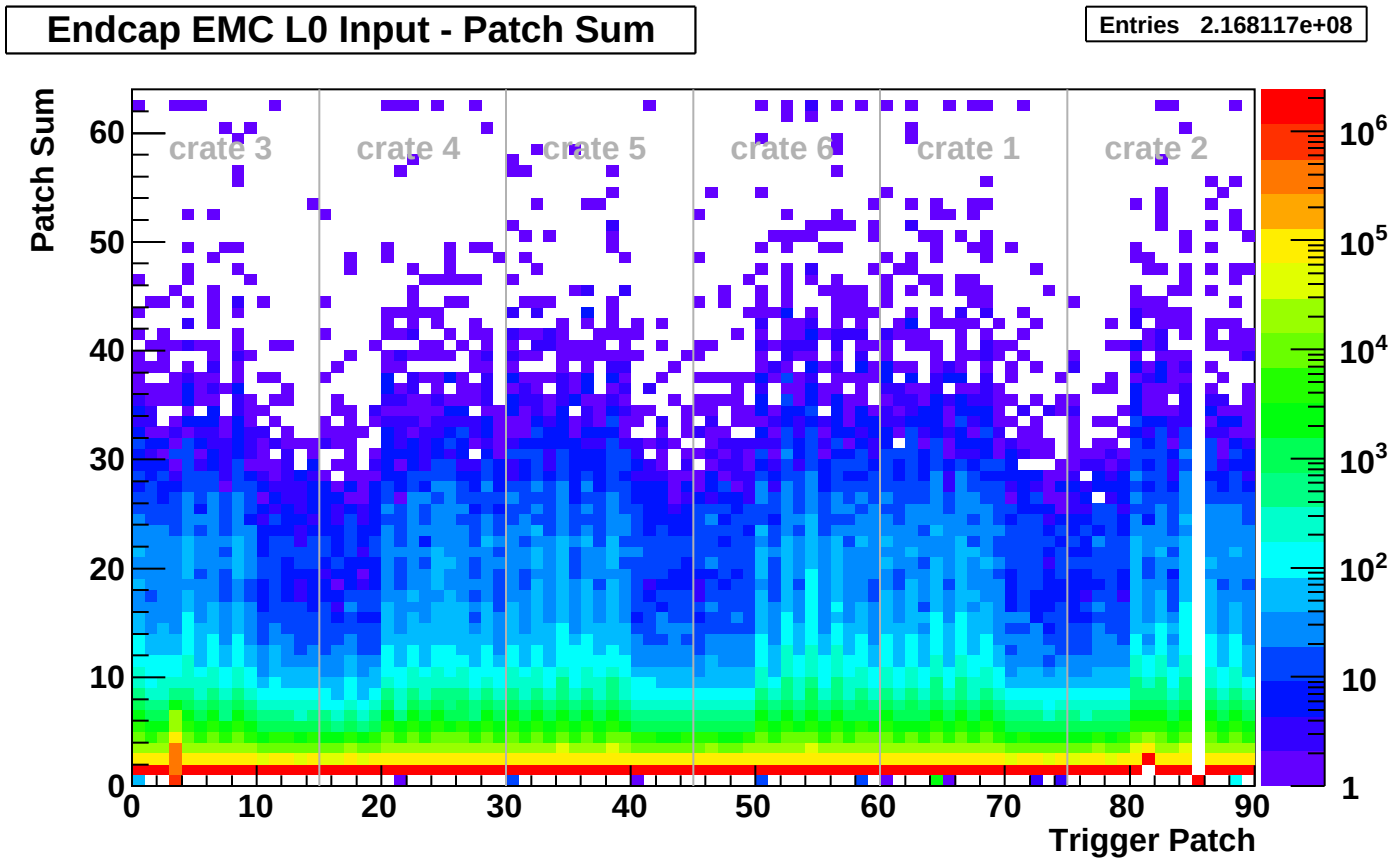

!Blue-Fill
Entries 1033

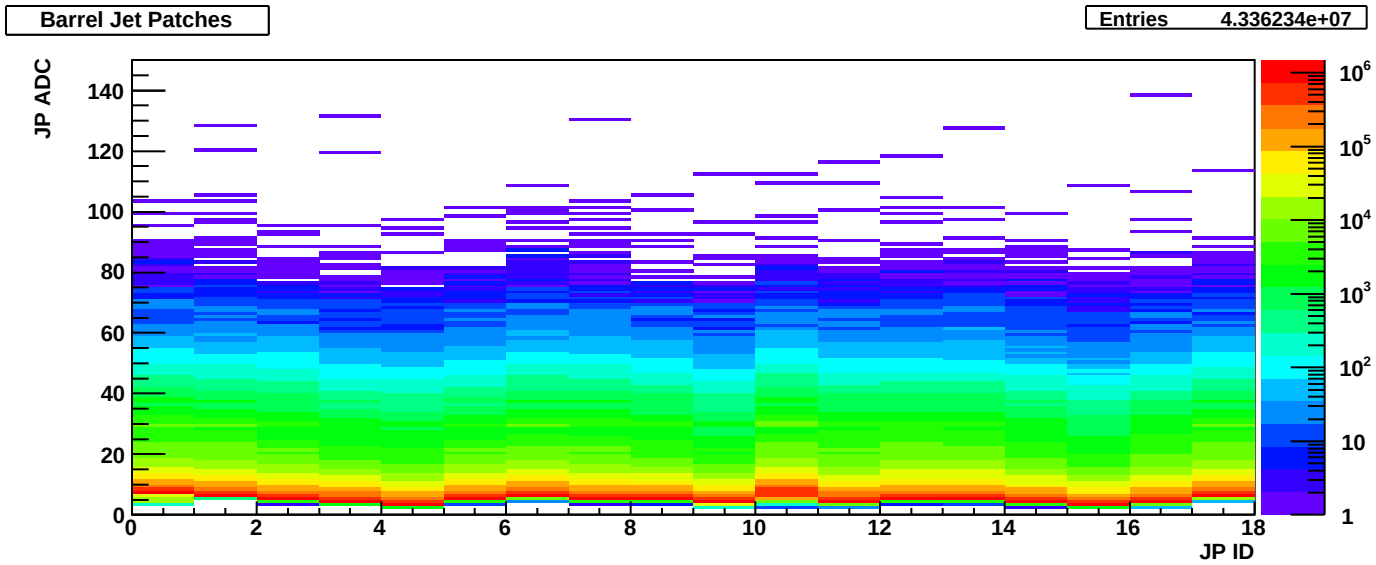

!Yellow-Fill
Entries 97159

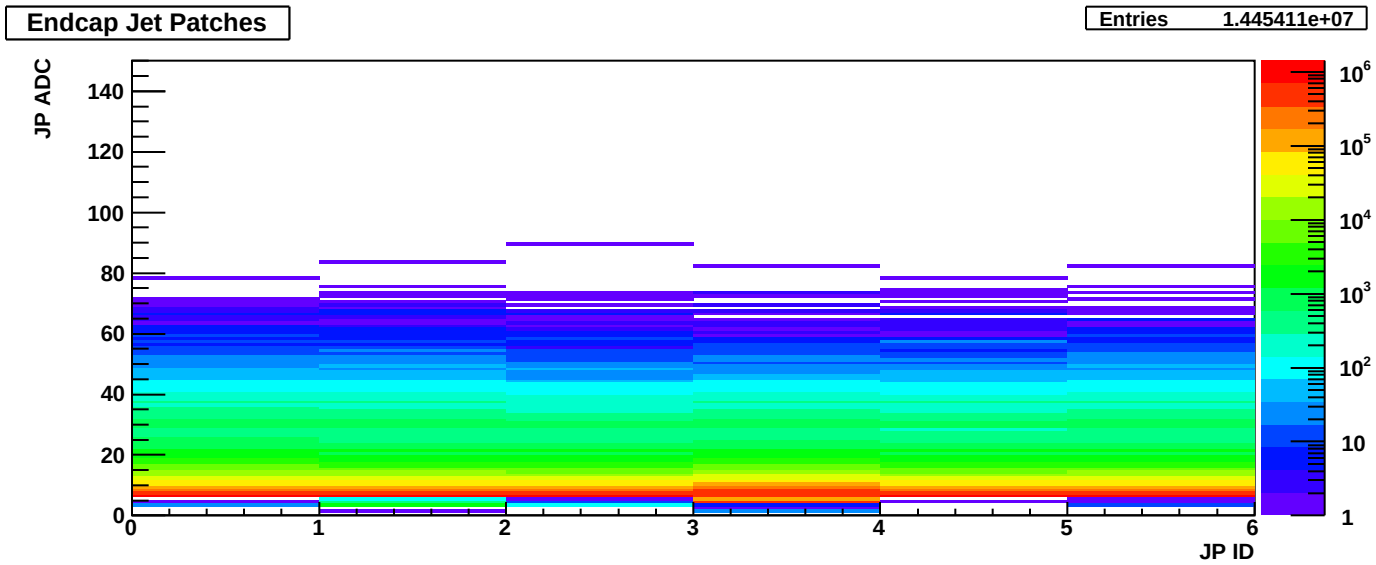

Barrel EMC L0 Input - High Tower
Entries 7.227057e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

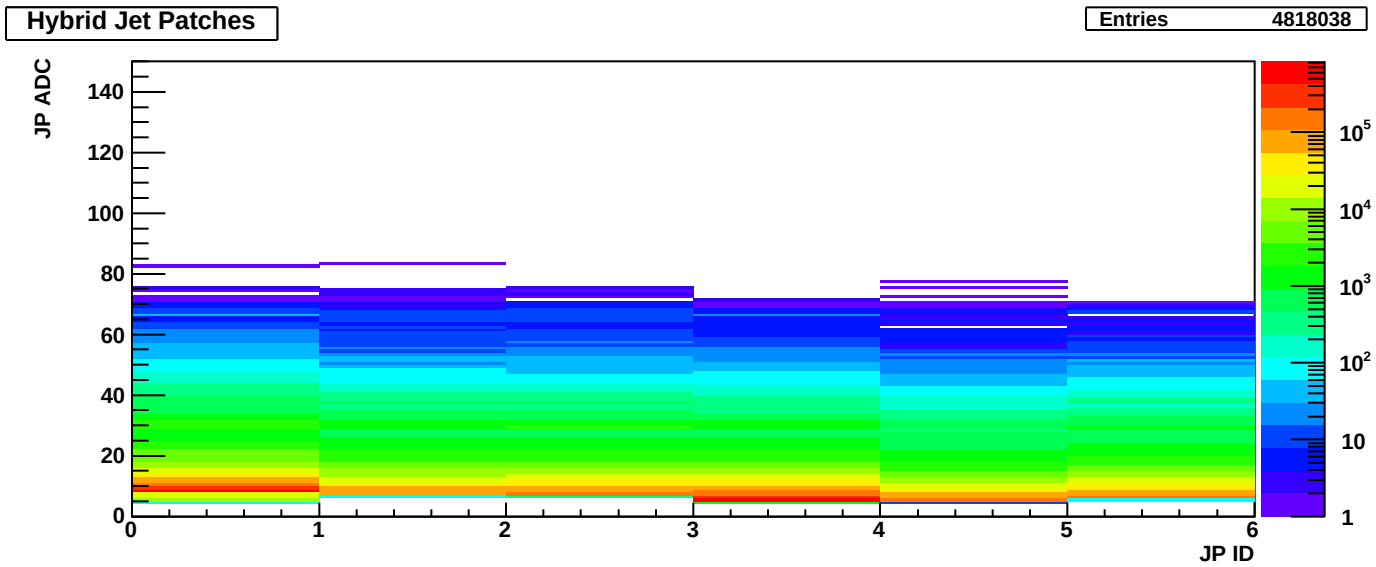

Barrel EMC L0 Input - Patch Sum
Entries 7.227057e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

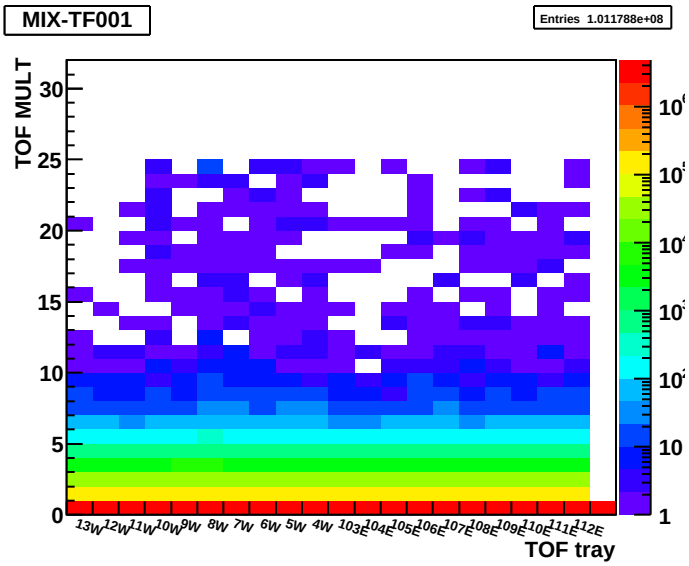

Endcap EMC L0 Input - High Tower
Entries 2.168117e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

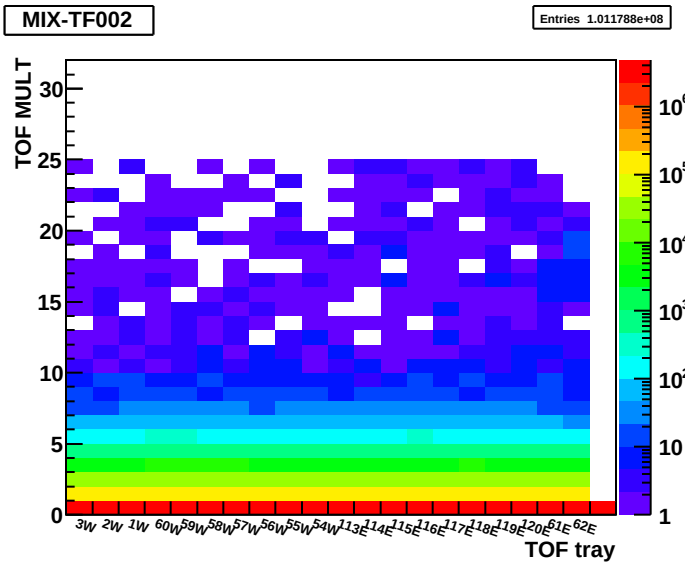

Endcap EMC L0 Input - Patch Sum
Entries 2.168117e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

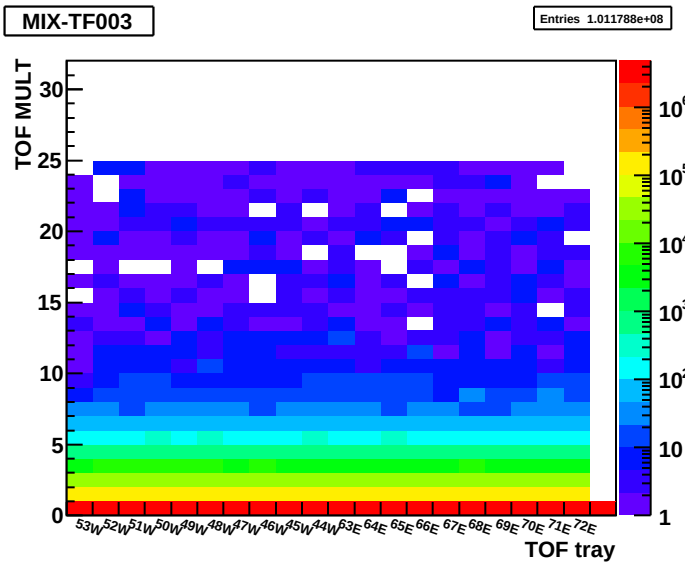

Barrel Jet Patches
Entries 4.336234e+07
JP ADC
JP ID

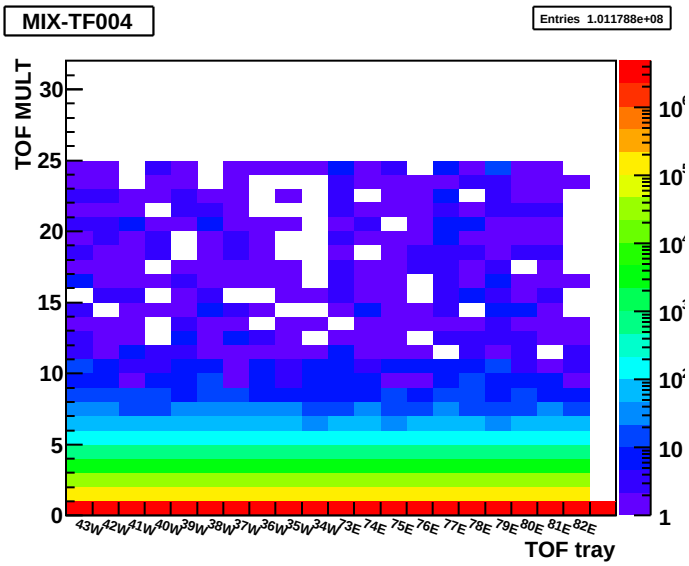

Endcap Jet Patches
Entries 1.445411e+07
JP ADC
JP ID

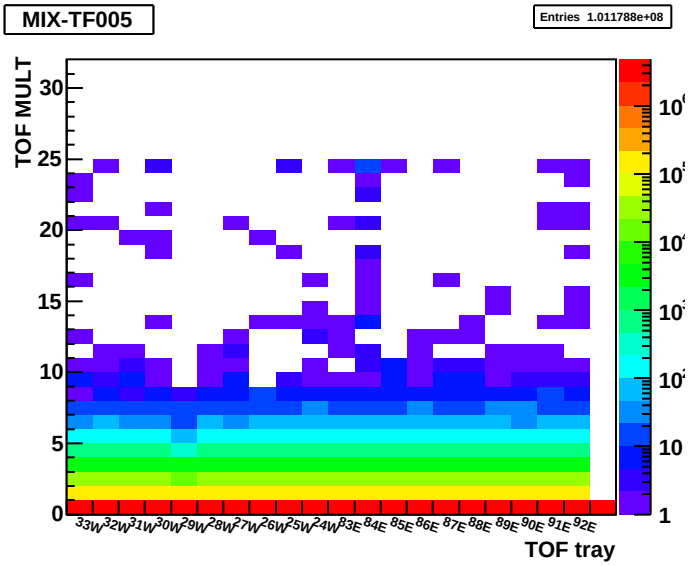

Hybrid Jet Patches
Entries 4818038
JP ADC
JP ID

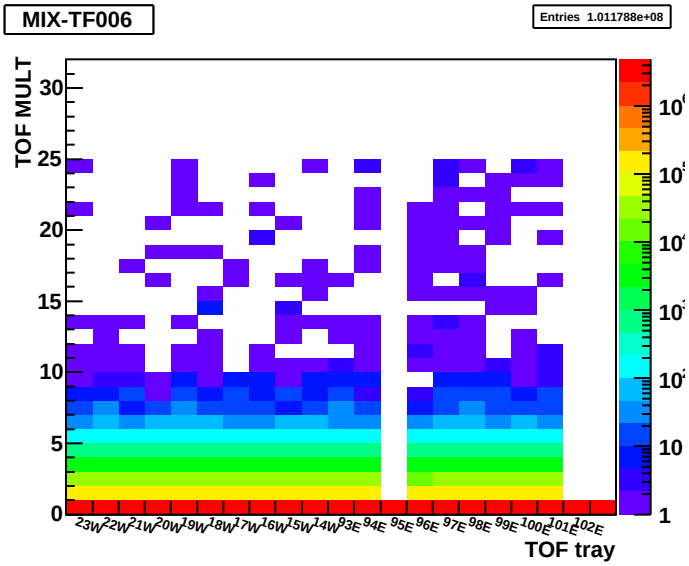

MIX-TF001
Entries 1.011788e+08
TOF MULT
TOF tray

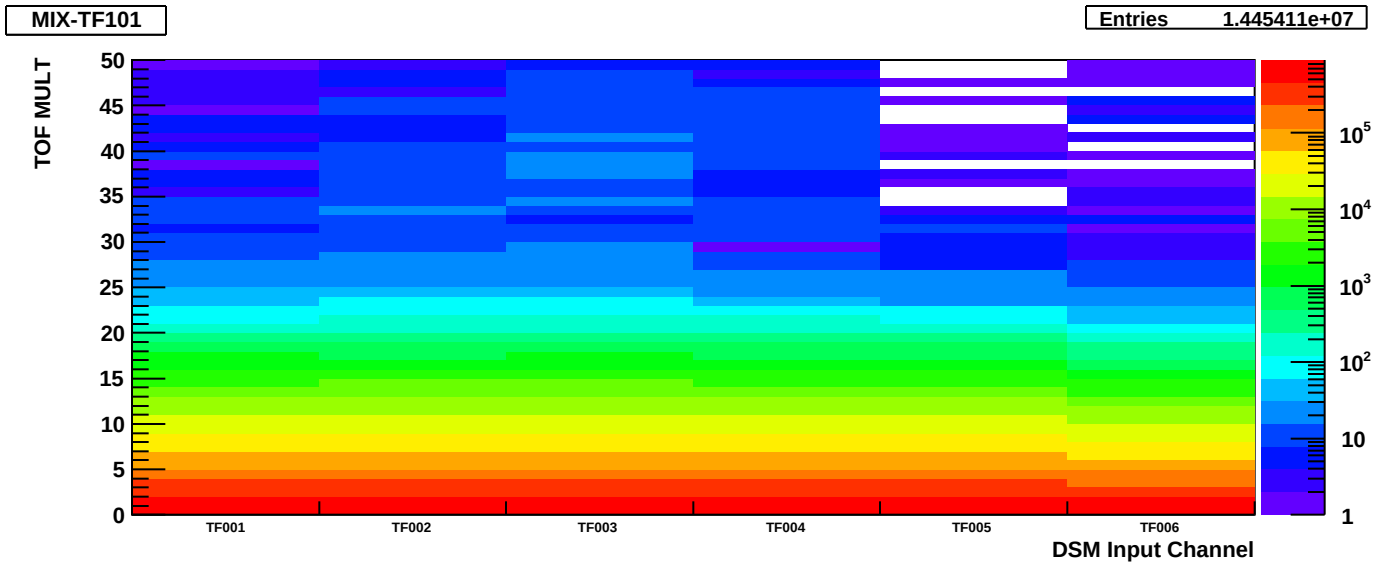

MIX-TF002
Entries 1.011788e+08
TOF MULT
TOF tray

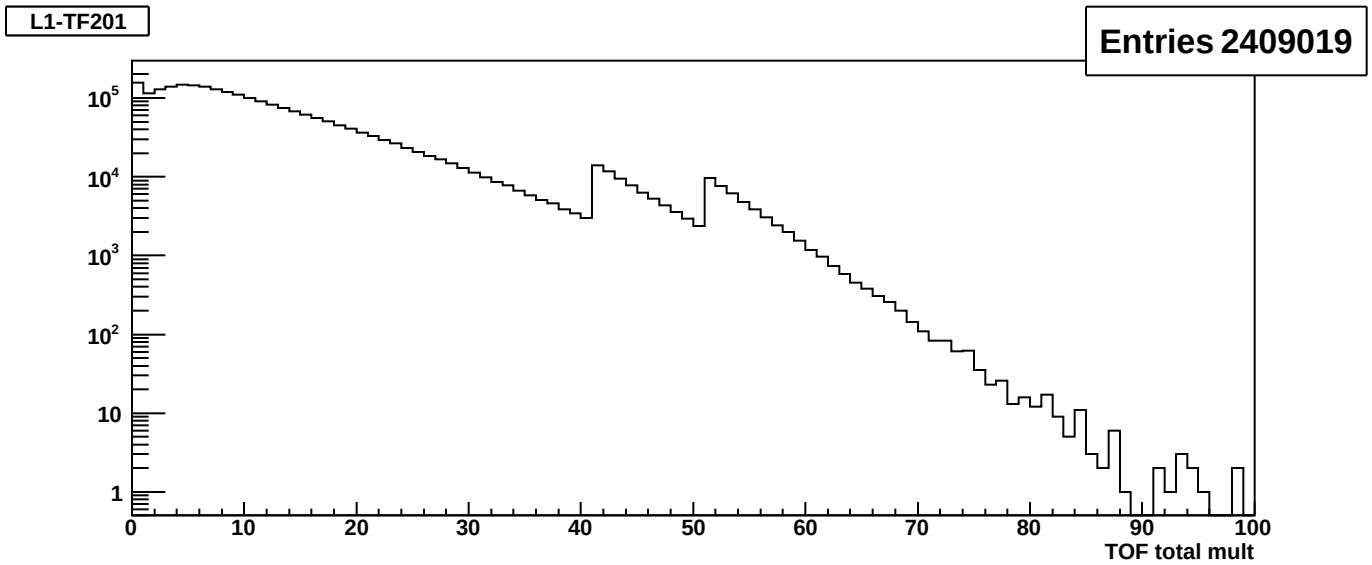

MIX-TF003
Entries 1.011788e+08
TOF MULT
TOF tray

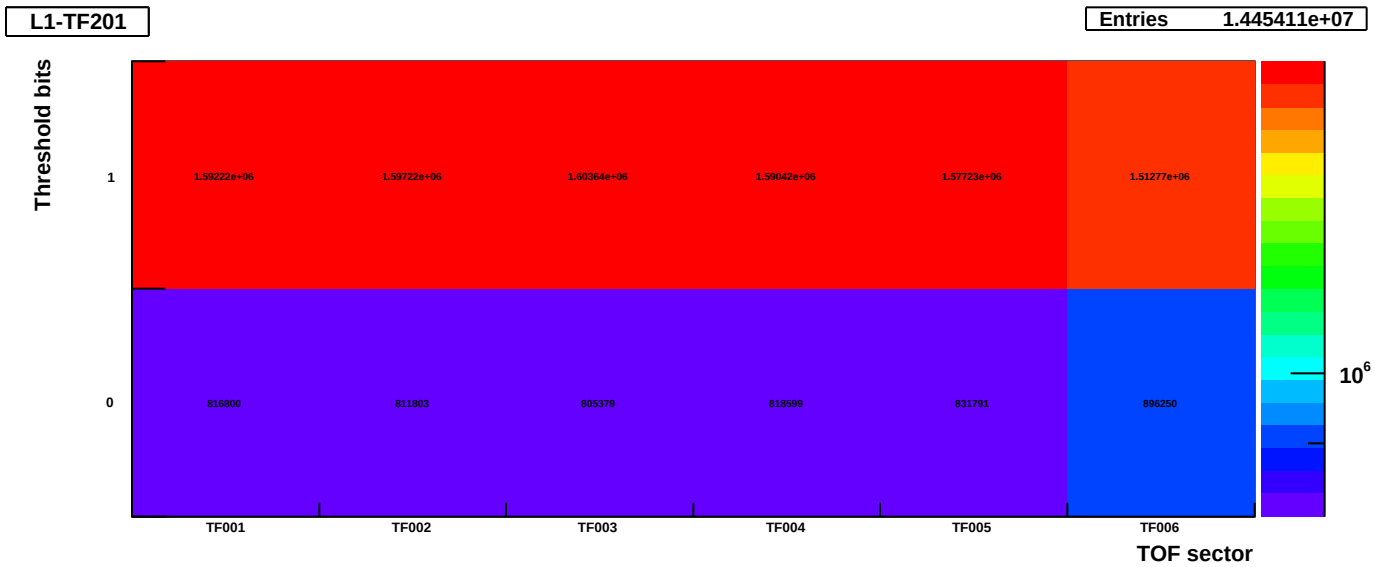

MIX-TF004
Entries 1.011788e+08
TOF MULT
TOF tray

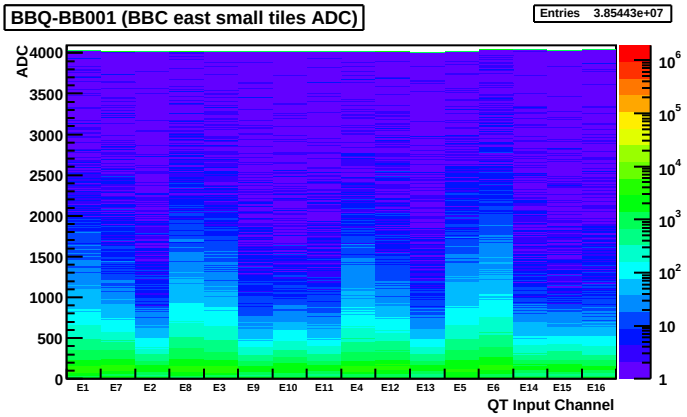

MIX-TF005
Entries 1.011788e+08
TOF MULT
TOF tray

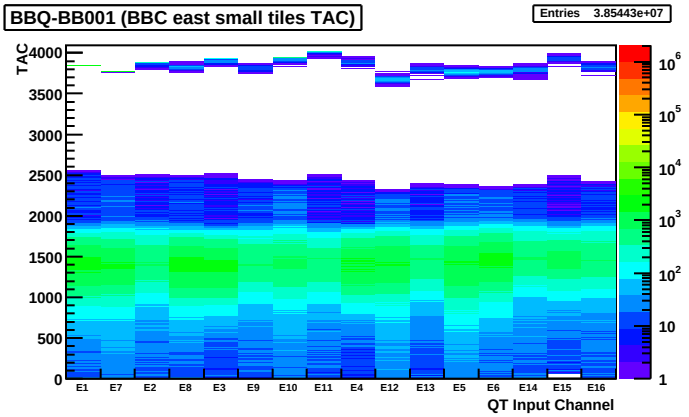

MIX-TF006
Entries 1.011788e+08
TOF MULT
TOF tray

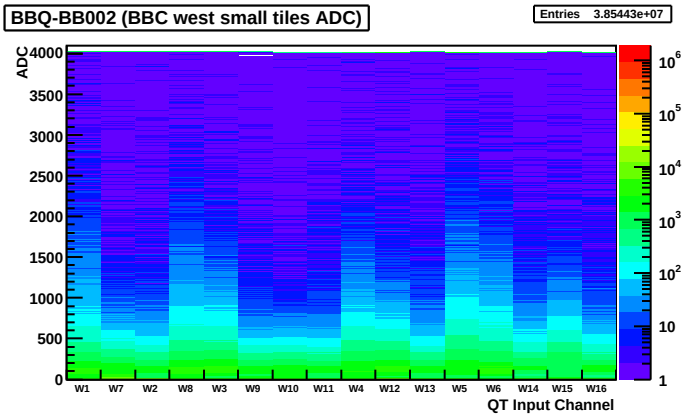

MIX-TF101
Entries 1.445411e+07
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

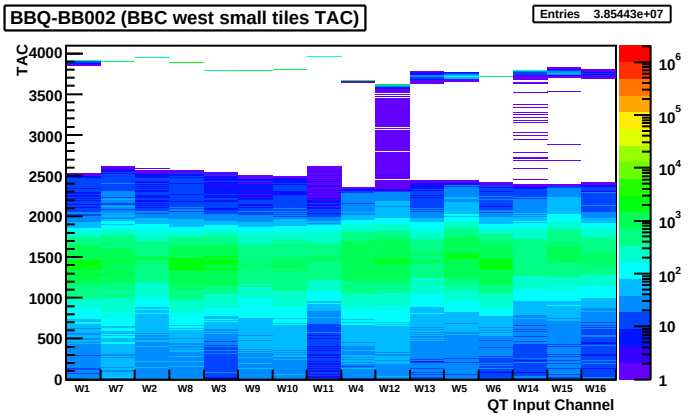

L1-TF201
Entries 2409019
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

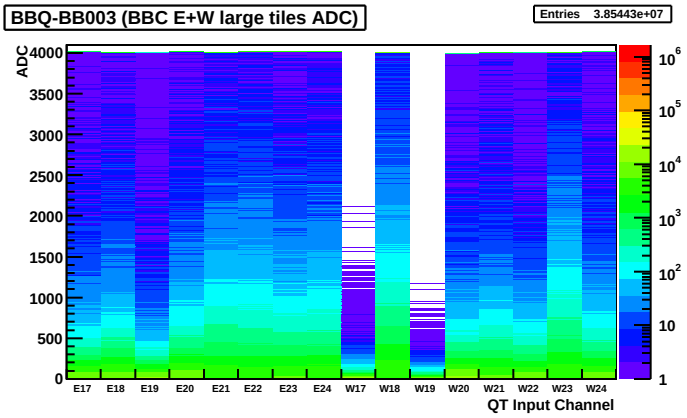

L1-TF201
Entries 1.445411e+07
Threshold bits
1
0
1.59222e+06
1.59722e+06
1.60364e+06
1.59042e+06
1.57723e+06
1.51277e+06
816800
811803
805379
818599
831791
896250
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^6

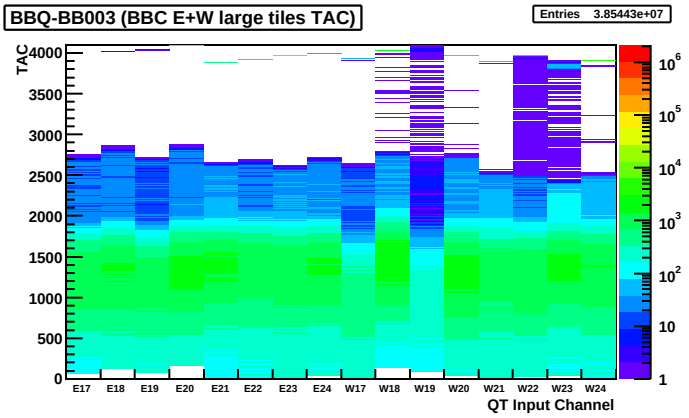

BBQ-BB001 (BBC east small tiles ADC)
Entries 3.85443e+07
ADC
QT Input Channel

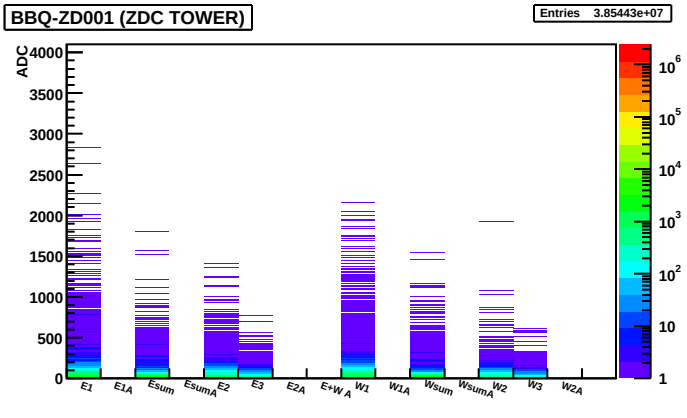

BBQ-BB001 (BBC east small tiles TAC)
Entries 3.85443e+07
TAC
QT Input Channel

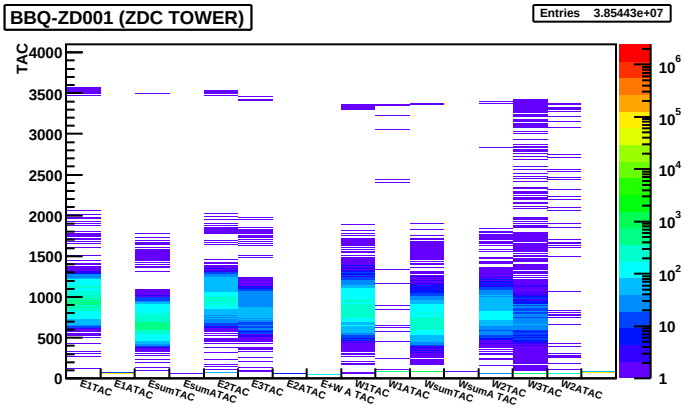

BBQ-BB002 (BBC west small tiles ADC)
Entries 3.85443e+07
ADC
QT Input Channel

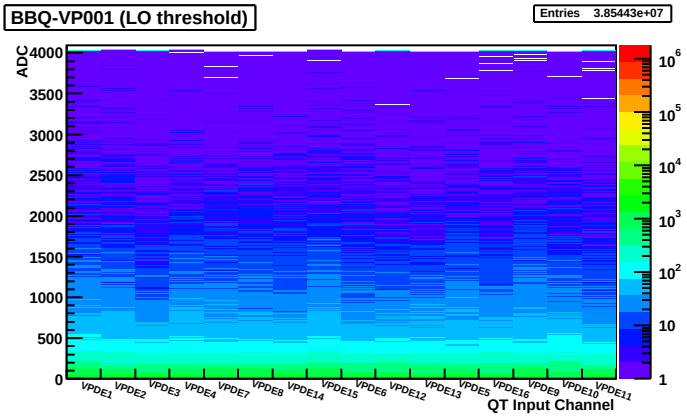

BBQ-BB002 (BBC west small tiles TAC)
Entries 3.85443e+07
TAC
QT Input Channel

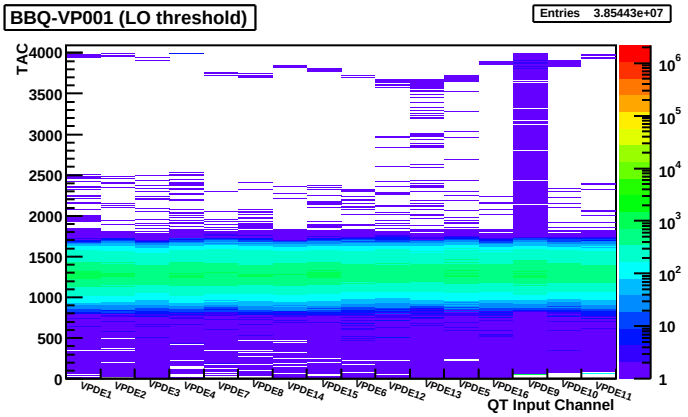

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3.85443e+07
ADC
QT Input Channel

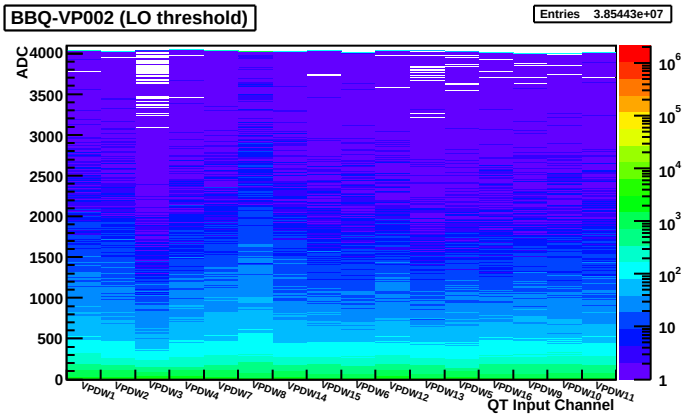

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3.85443e+07
TAC
QT Input Channel

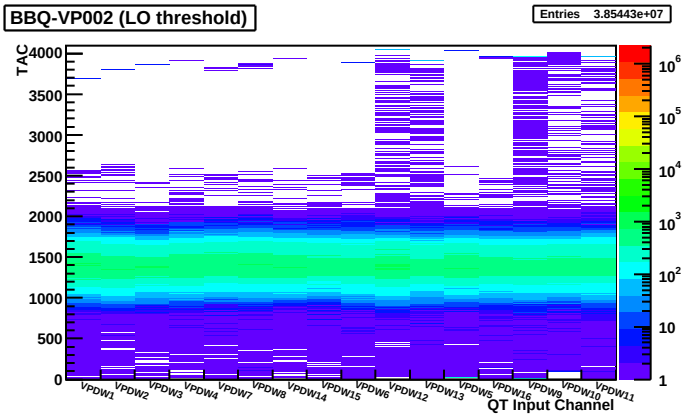

BBQ-ZD001 (ZDC TOWER)
Entries 3.85443e+07
ADC

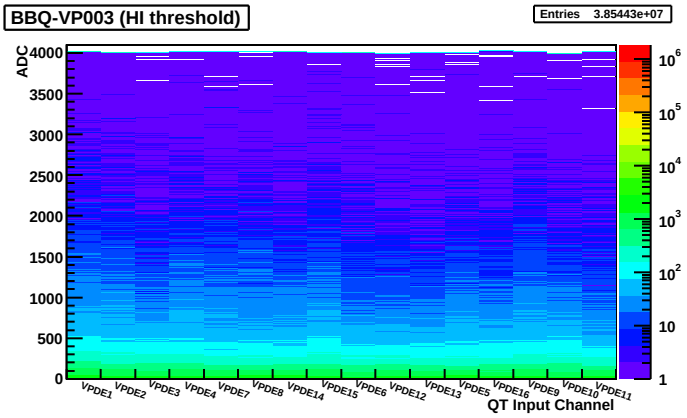

BBQ-ZD001 (ZDC TOWER)
Entries 3.85443e+07
TAC

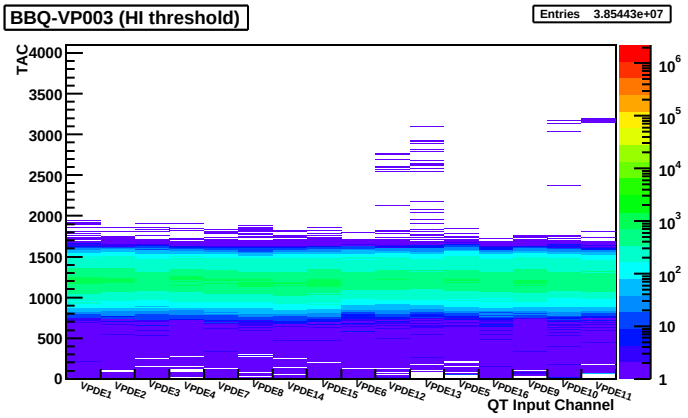

BBQ-VP001 (LO threshold)
Entries 3.85443e+07
ADC
QT Input Channel

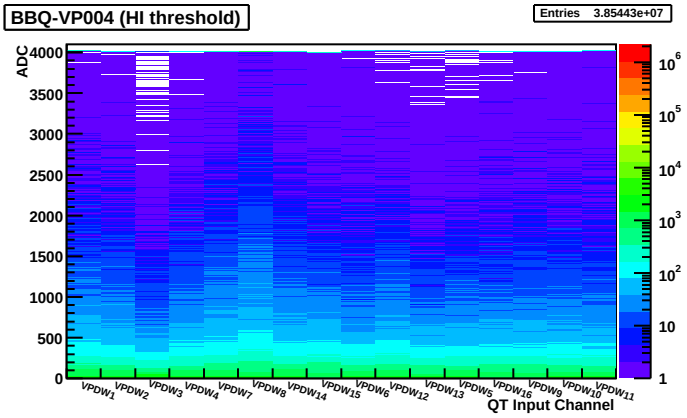

BBQ-VP001 (LO threshold)
Entries 3.85443e+07
TAC
QT Input Channel

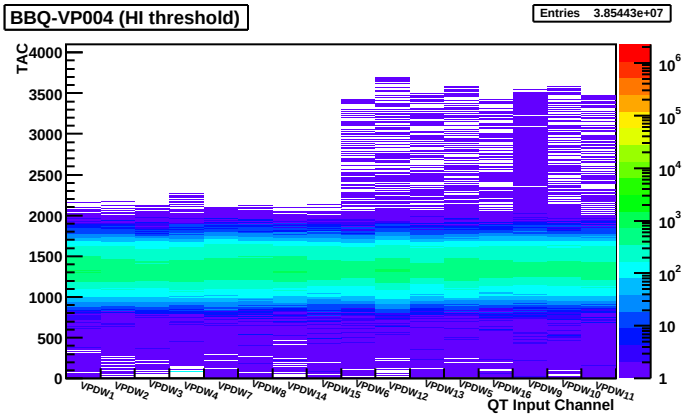

BBQ-VP002 (LO threshold)
Entries 3.85443e+07
ADC
QT Input Channel

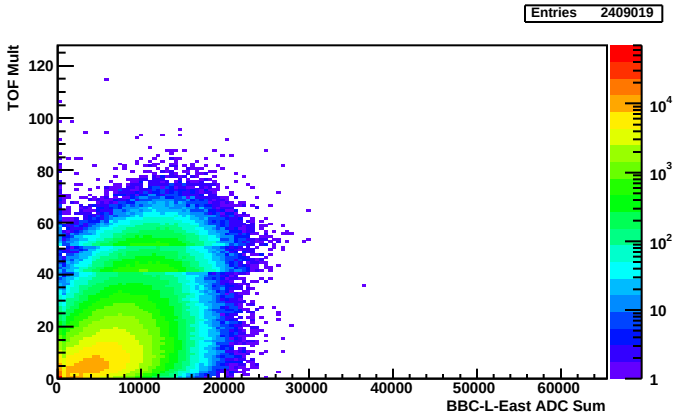

BBQ-VP002 (LO threshold)
Entries 3.85443e+07
TAC
QT Input Channel

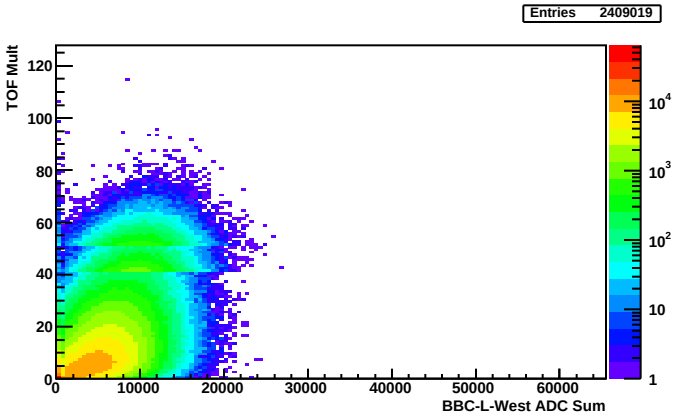

BBQ-VP003 (HI threshold)
Entries 3.85443e+07
ADC
QT Input Channel

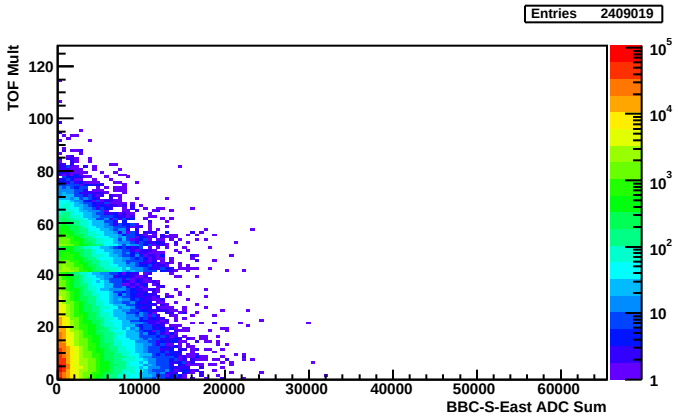

BBQ-VP003 (HI threshold)
Entries 3.85443e+07
TAC
QT Input Channel

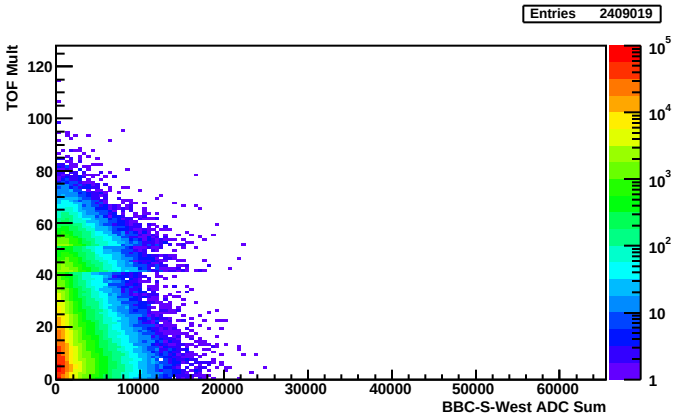

BBQ-VP004 (HI threshold)
Entries 3.85443e+07
ADC
QT Input Channel

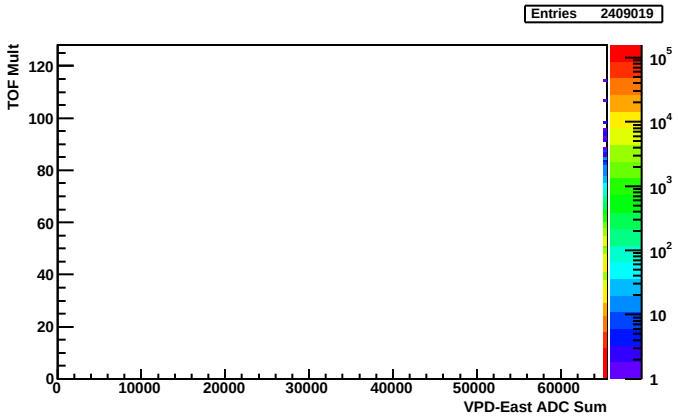

BBQ-VP004 (HI threshold)
Entries 3.85443e+07
TAC
QT Input Channel

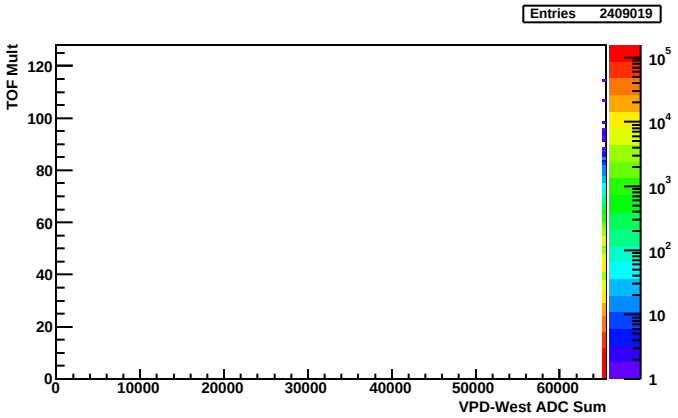

Entries 2409019
TOF Mult
BBC-L-East ADC Sum

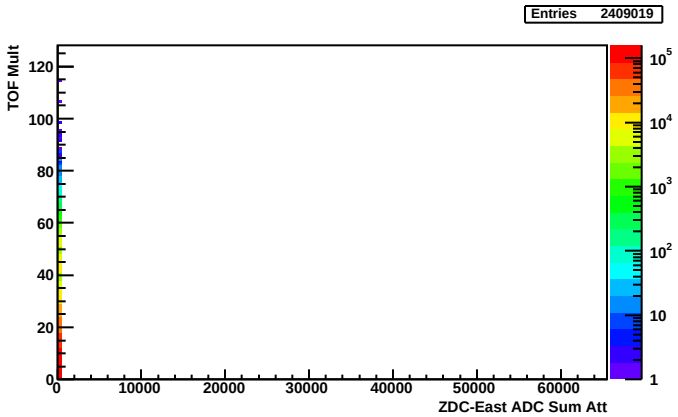

Entries 2409019
TOF Mult
BBC-L-West ADC Sum

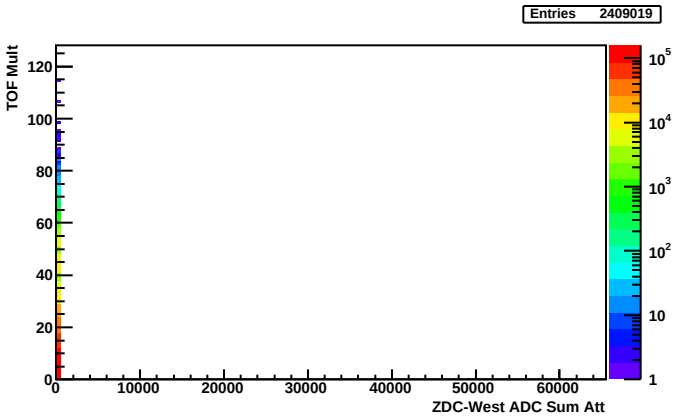

Entries 2409019
TOF Mult
BBC-S-East ADC Sum

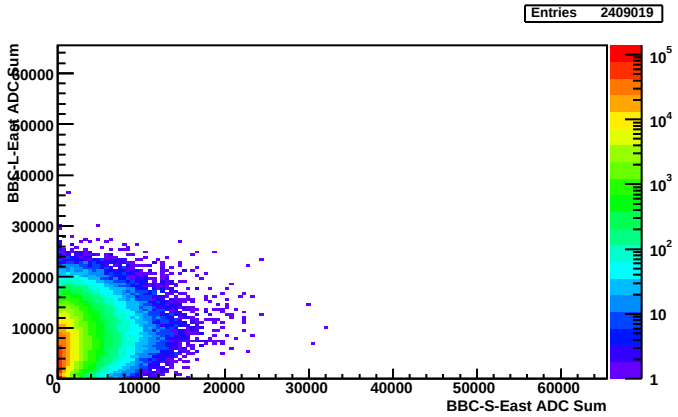

Entries 2409019
TOF Mult
BBC-S-West ADC Sum

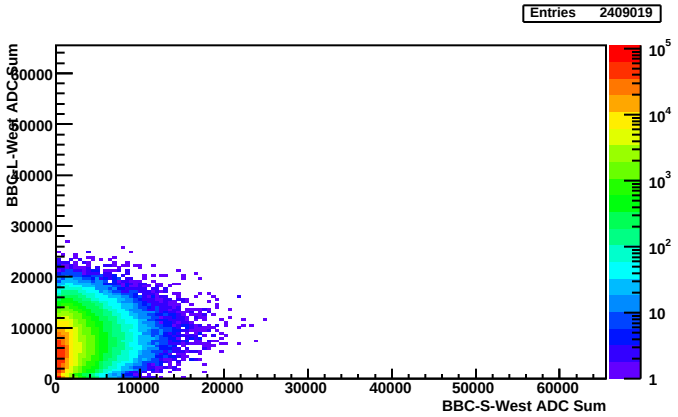

Entries 2409019
TOF Mult
VPD-East ADC Sum

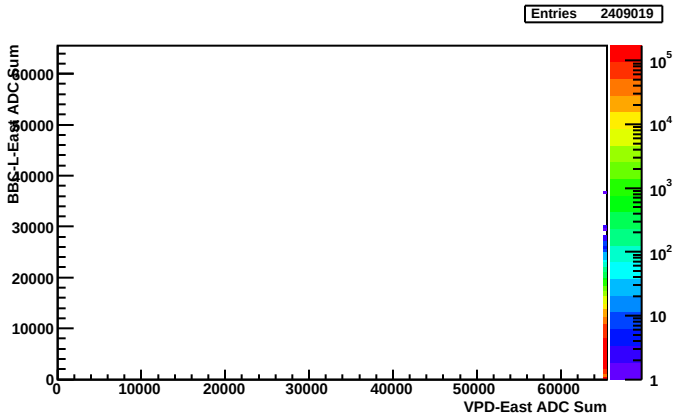

Entries 2409019
TOF Mult
VPD-West ADC Sum

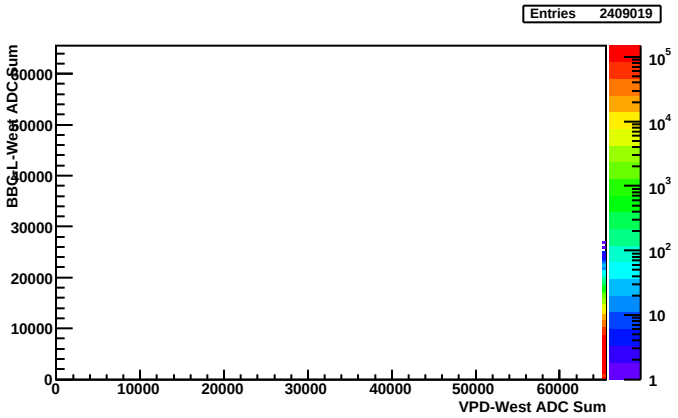

Entries 2409019
TOF Mult
ZDC-East ADC Sum Att

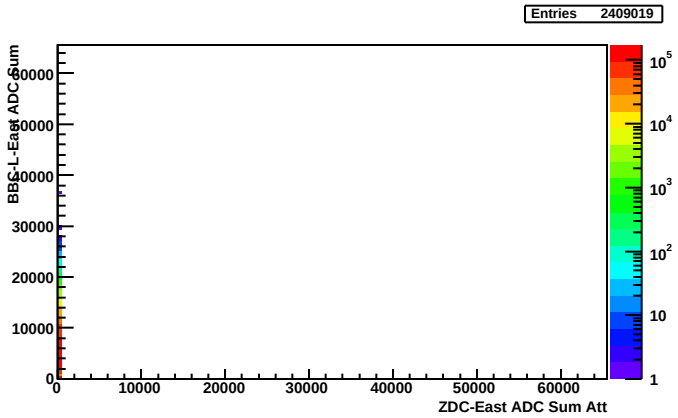

Entries 2409019
TOF Mult
ZDC-West ADC Sum Att

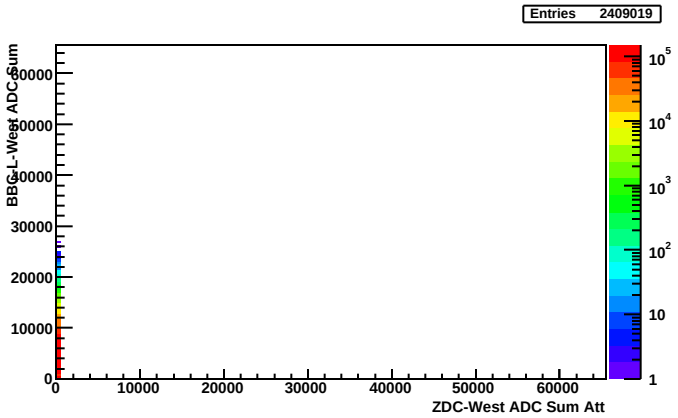

Entries 2409019
BBC-L-East ADC Sum
BBC-S-East ADC Sum

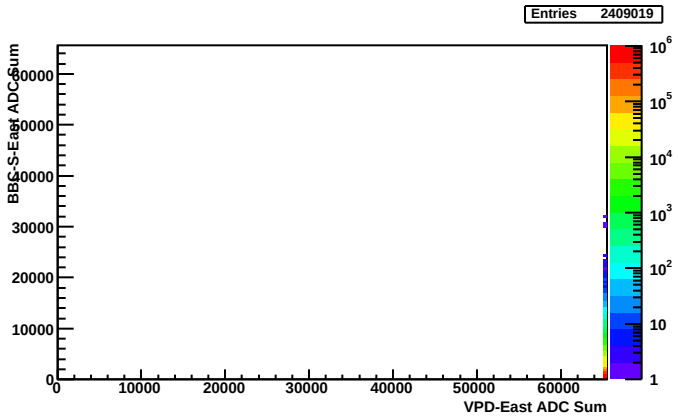

Entries 2409019
BBC-L-West ADC Sum
BBC-S-West ADC Sum

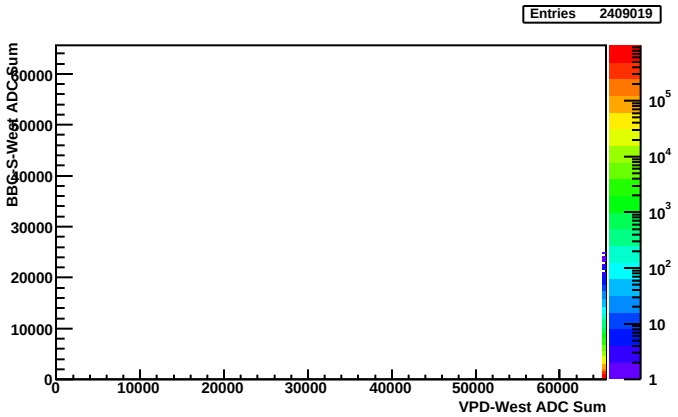

Entries 2409019
BBC-L-East ADC Sum
VPD-East ADC Sum

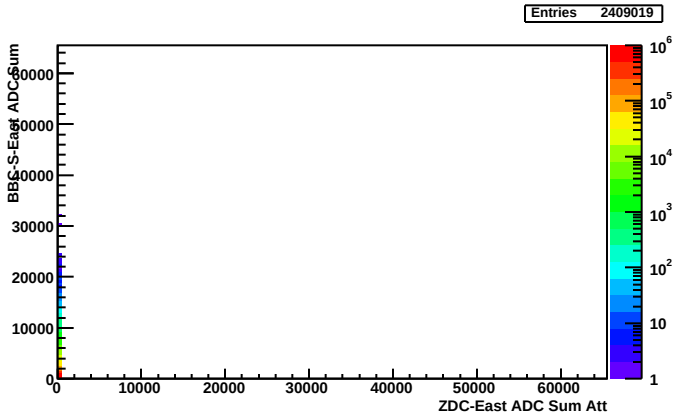

Entries 2409019
BBC-L-West ADC Sum
VPD-West ADC Sum

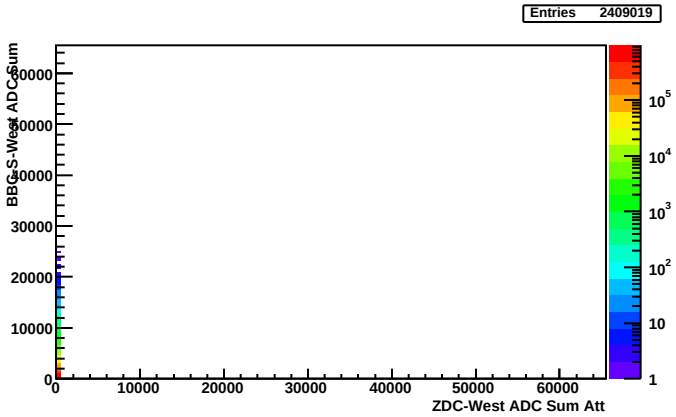

Entries 2409019
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

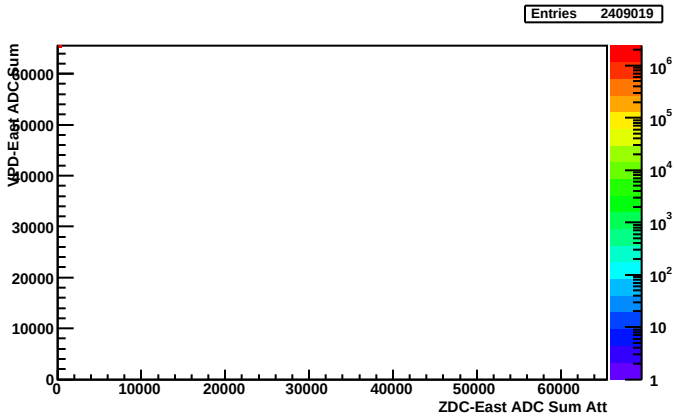

Entries 2409019
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

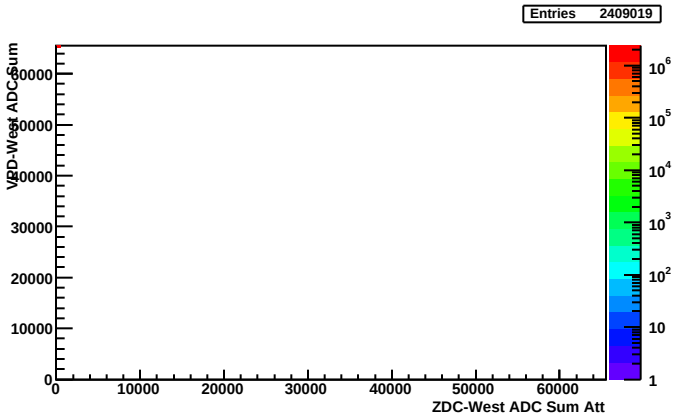

Entries 2409019
BBC-S-East ADC Sum
VPD-East ADC Sum

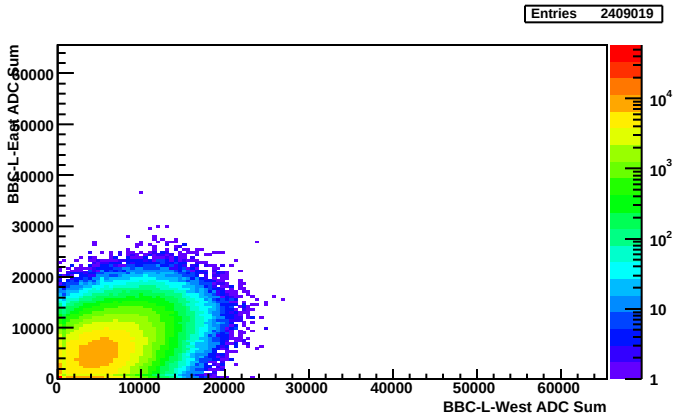

Entries 2409019
BBC-S-West ADC Sum
VPD-West ADC Sum

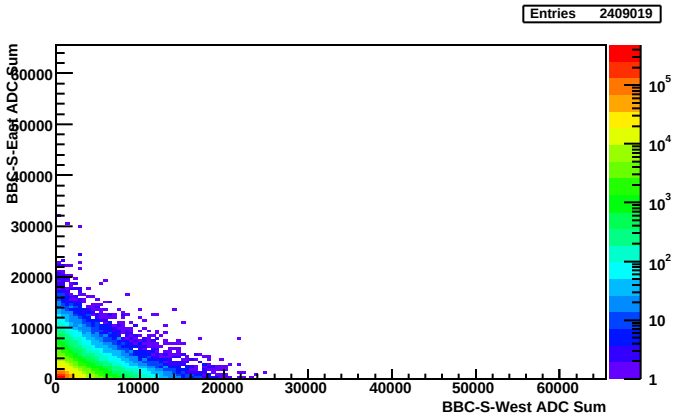

Entries 2409019
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

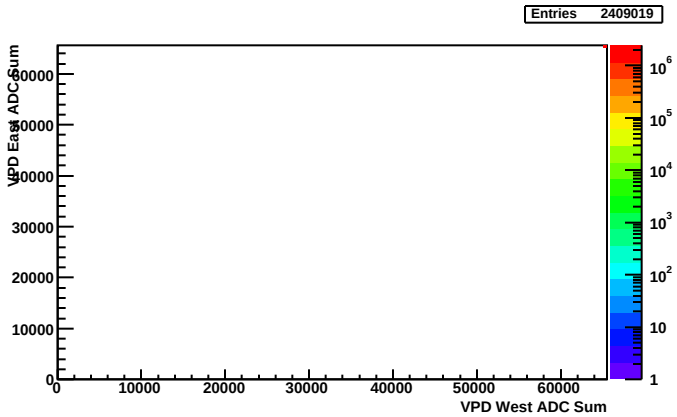

Entries 2409019
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

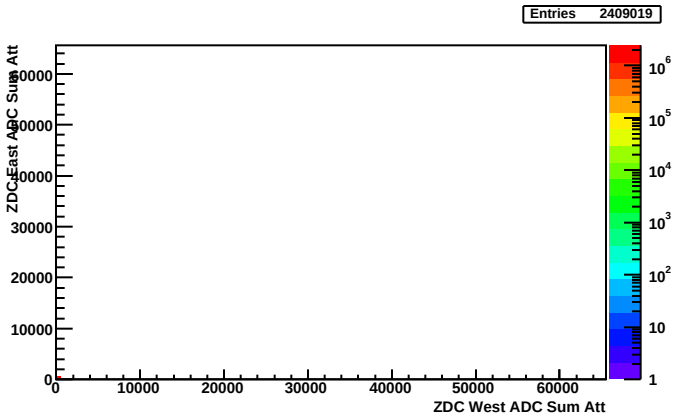

Entries 2409019
VPD-East ADC Sum
ZDC-East ADC Sum Att

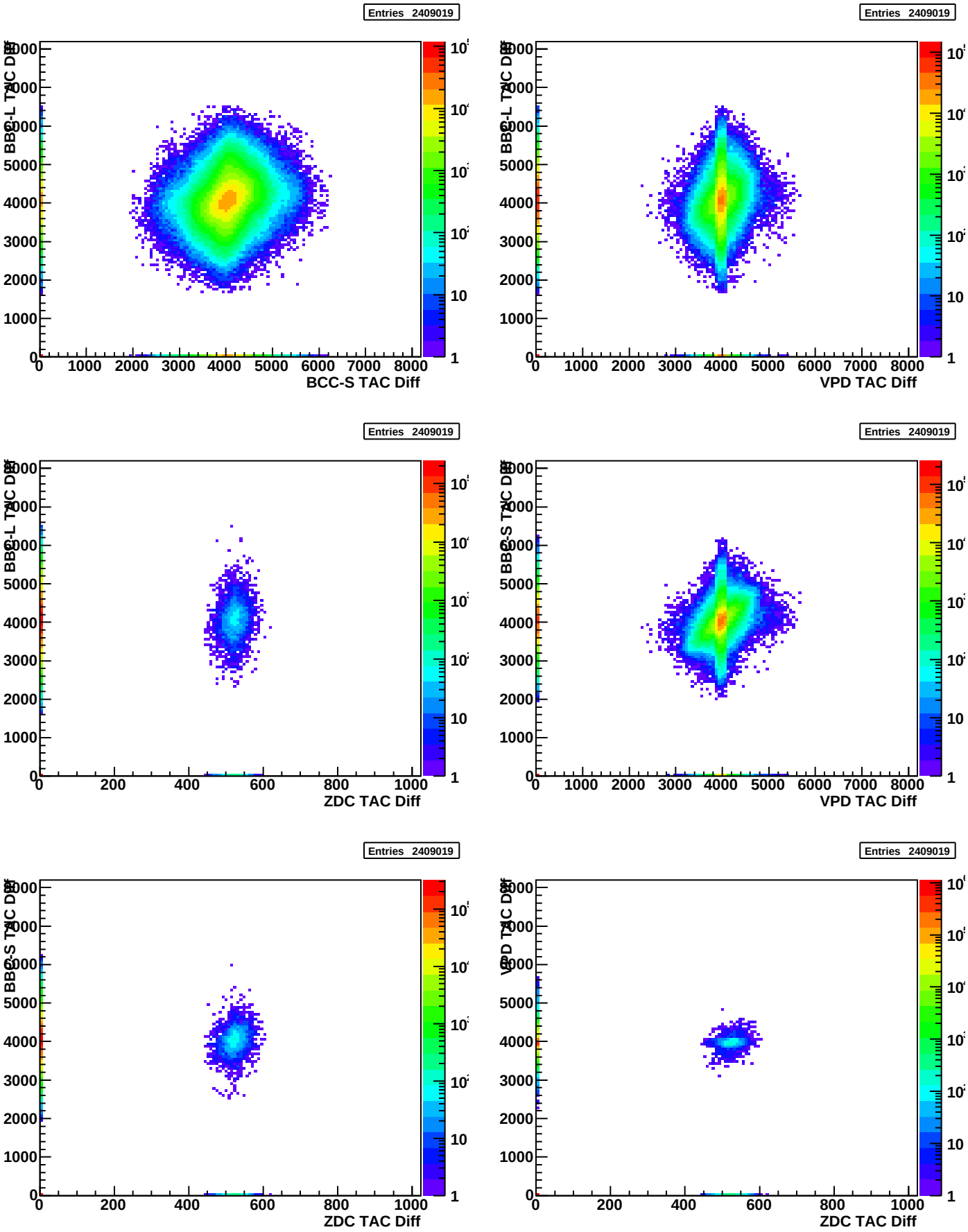

Entries 2409019
VPD-West ADC Sum
ZDC-West ADC Sum Att

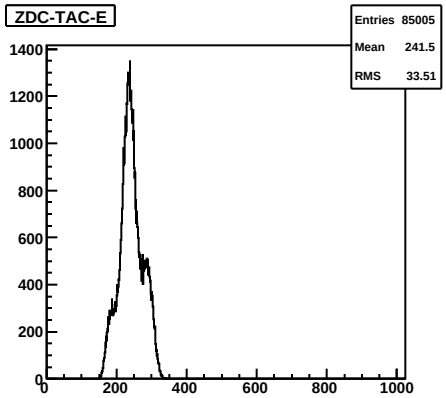

Entries 2409019
BBC-L-East ADC Sum
BBC-L-West ADC Sum

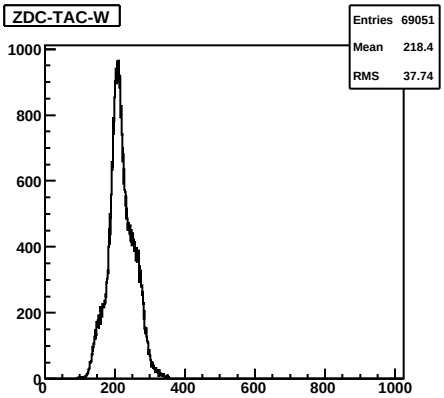

Entries 2409019
BBC-S-East ADC Sum
BBC-S-West ADC Sum

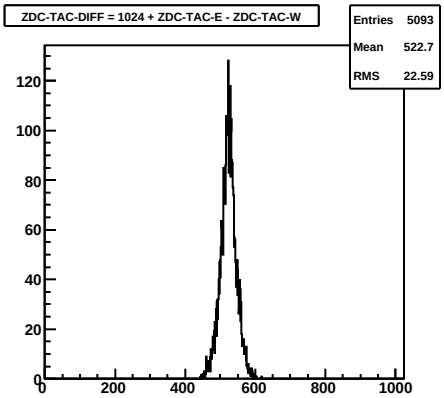

Entries 2409019
VPD East ADC Sum
VPD West ADC Sum

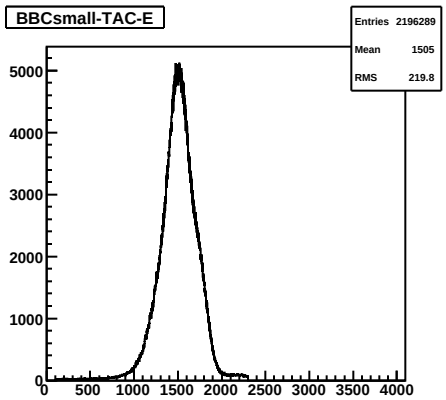

Entries 2409019
ZDC East ADC Sum Att
ZDC West ADC Sum Att

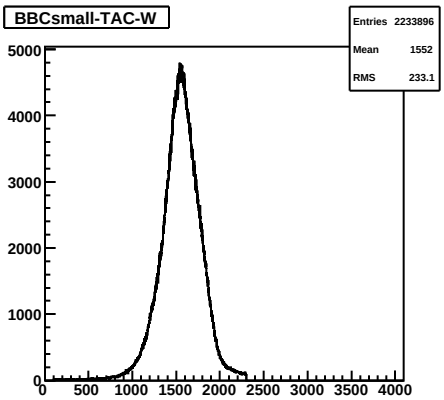

Entries 2409019
BBC-L TAC Diff
BCC-S TAC Diff
Entries 2409019
BBC-L TAC Diff
VPD TAC Diff
Entries 2409019
BBC-L TAC Diff
ZDC TAC Diff
Entries 2409019
BBC-S TAC Diff
VPD TAC Diff
Entries 2409019
BBC-S TAC Diff
ZDC TAC Diff
Entries 2409019
VPD TAC Diff
ZDC TAC Diff

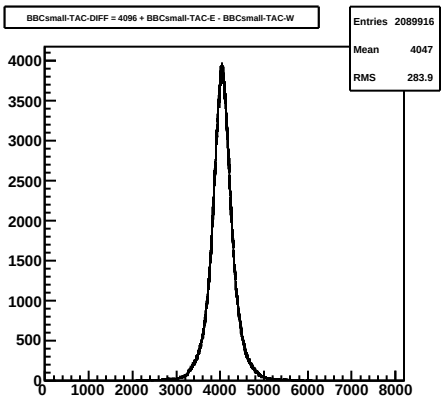

ZDC-TAC-E
Entries 85005
Mean 241.5
RMS 33.51

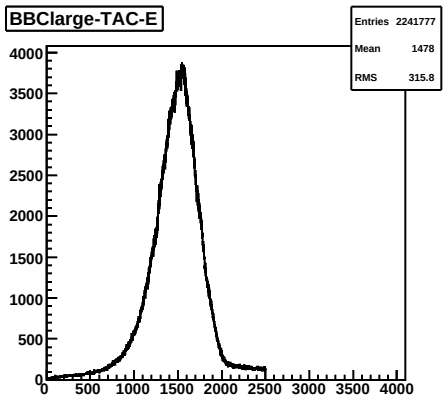

ZDC-TAC-W
Entries 69051
Mean 218.4
RMS 37.74

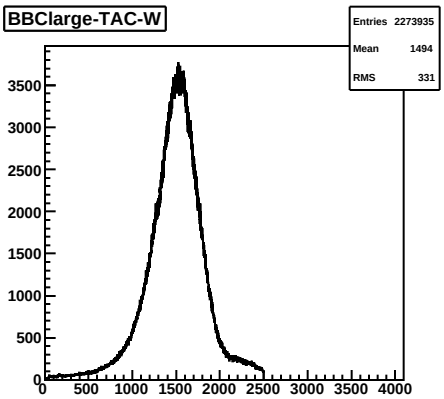

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 5093
Mean 522.7
RMS 22.59

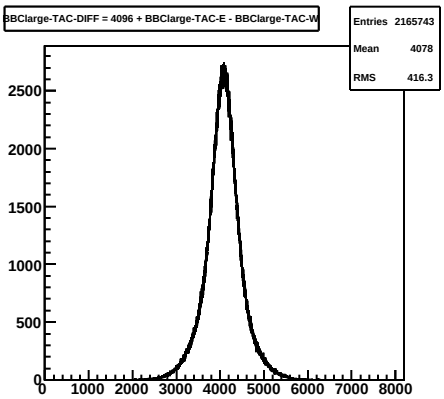

BBCsmall-TAC-E
Entries 2196289
Mean 1505
RMS 219.8

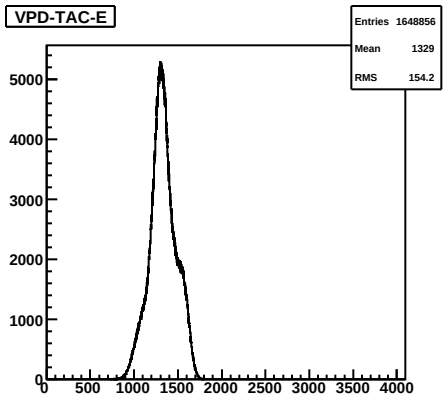

BBCsmall-TAC-W
Entries 2233896
Mean 1552
RMS 233.1

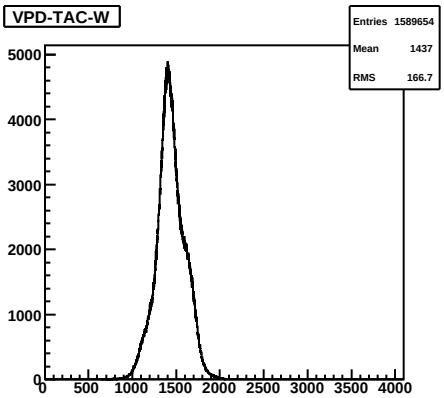

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 2089916
Mean 4047
RMS 283.9

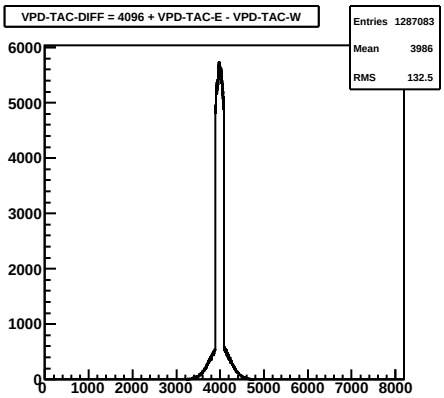

BBClarge-TAC-E
Entries 2241777
Mean 1478
RMS 315.8

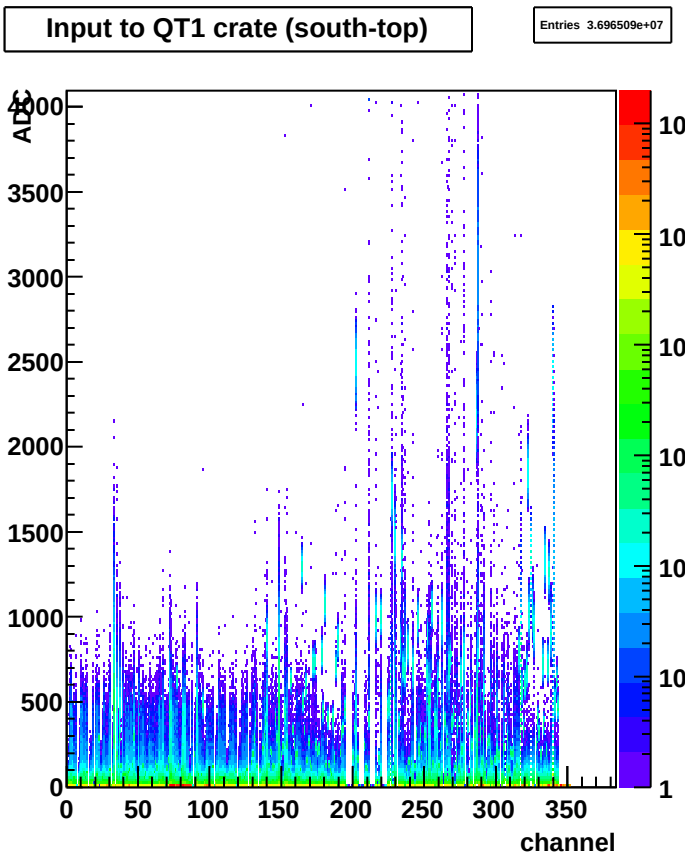

BBClarge-TAC-W
Entries 2273935
Mean 1494
RMS 331

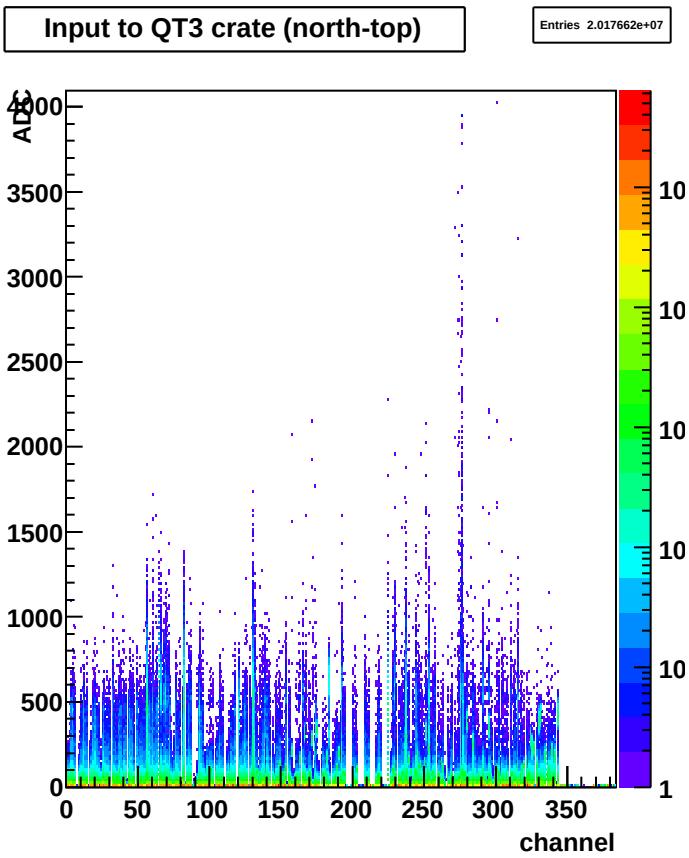

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 2165743
Mean 4078
RMS 416.3

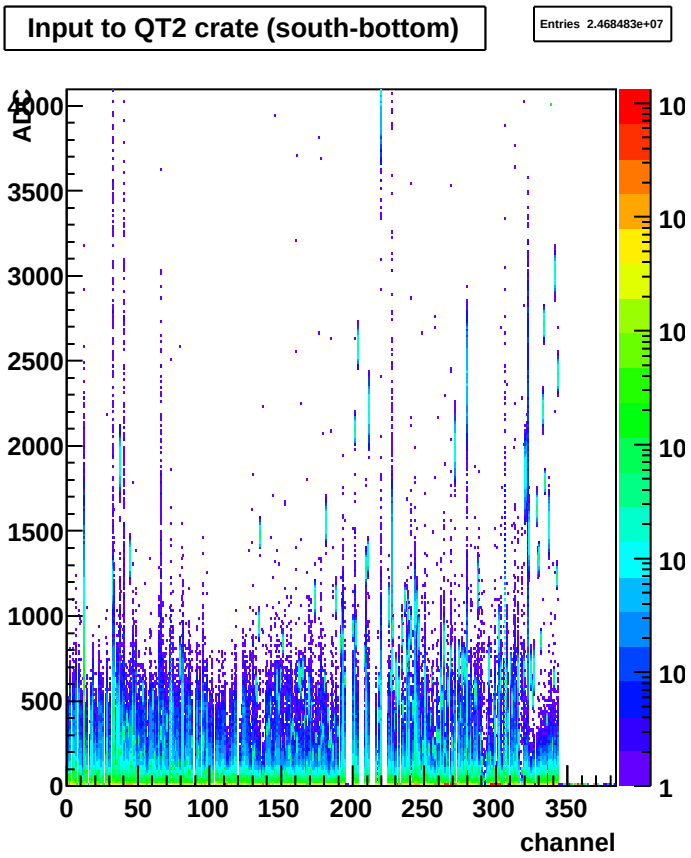

VPD-TAC-E
Entries 1648856
Mean 1329
RMS 154.2

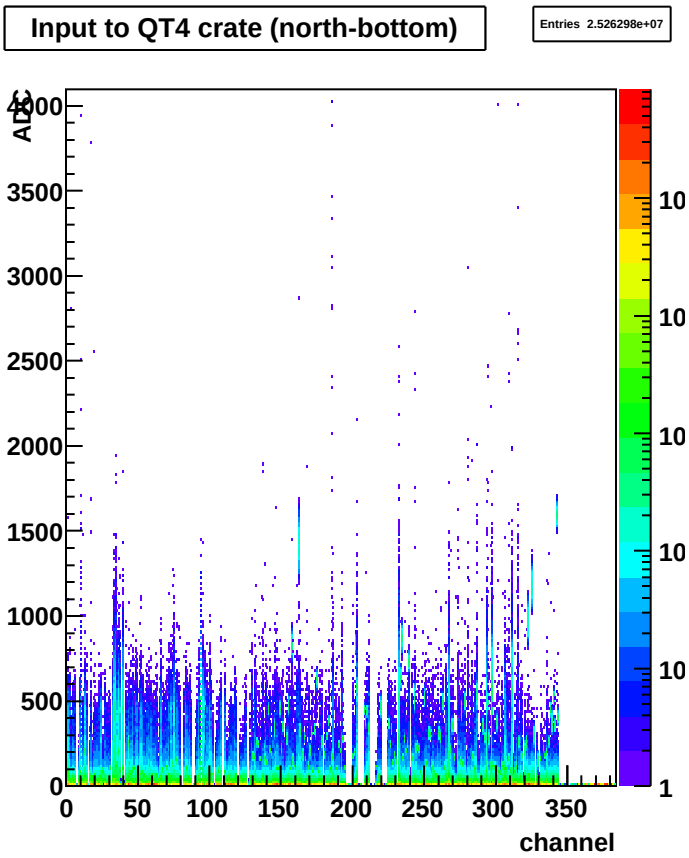

VPD-TAC-W
Entries 1589654
Mean 1437
RMS 166.7

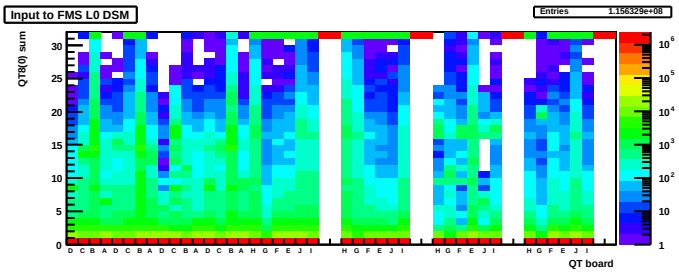

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 1287083
Mean 3986
RMS 132.5

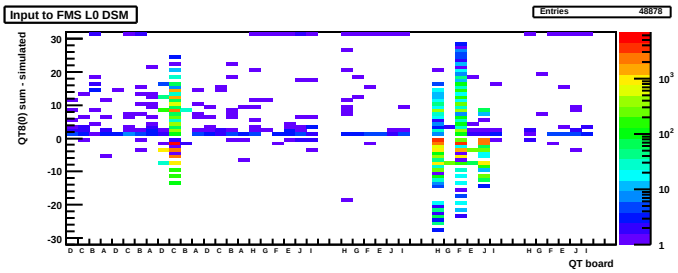

Input to QT1 crate (south-top)
Entries 3.696509e+07
ADC
channel

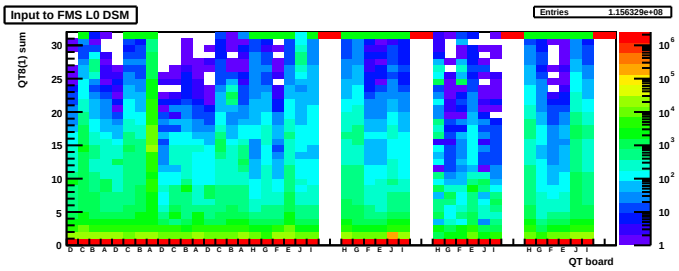

Input to QT3 crate (north-top)
Entries 2.017662e+07
ADC
channel

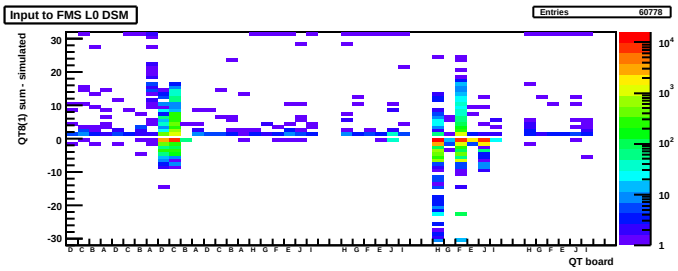

Input to QT2 crate (south-bottom)
Entries 2.468483e+07
ADC
channel

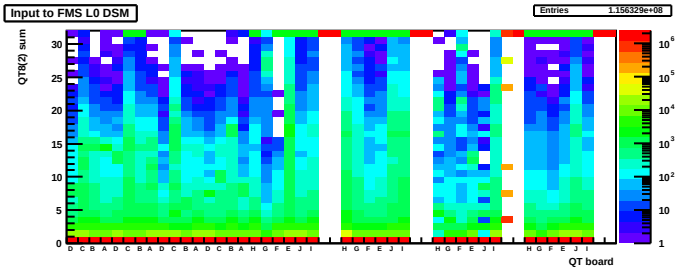

Input to QT4 crate (north-bottom)
Entries 2.526298e+07
ADC
channel

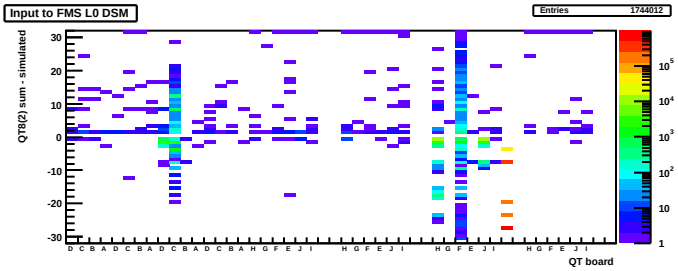

Input to FMS L0 DSM
Entries 1.156329e+08
QT8(0) sum
QT board

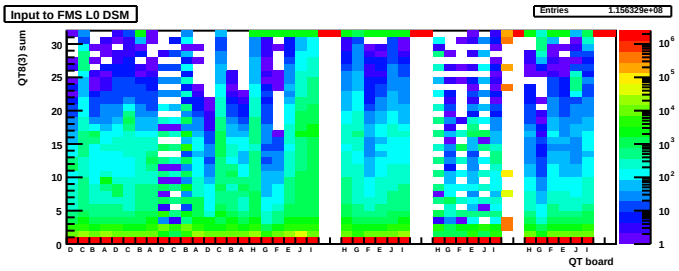

Input to FMS L0 DSM
Entries 48878
QT8(0) sum - simulated
QT board

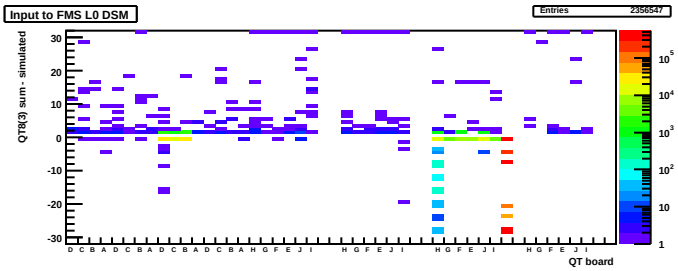

Input to FMS L0 DSM
Entries 1.156329e+08
QT8(1) sum
QT board

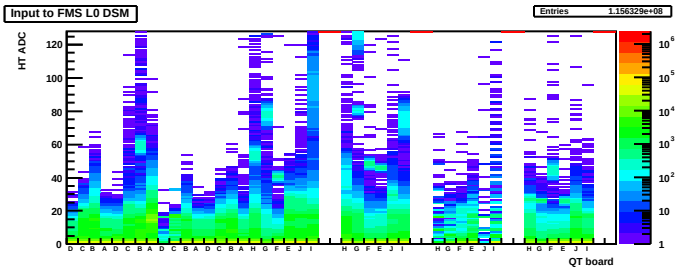

Input to FMS L0 DSM
Entries 60778
QT8(1) sum - simulated
QT board

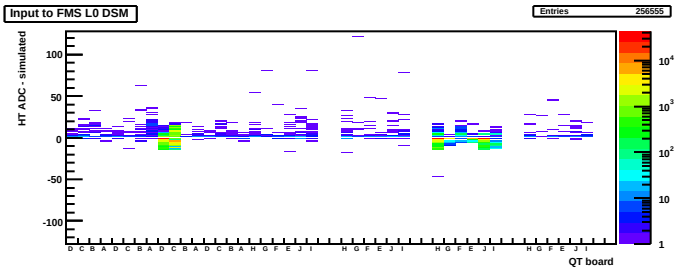

Input to FMS L0 DSM
Entries 1.156329e+08
QT8(2) sum
QT board

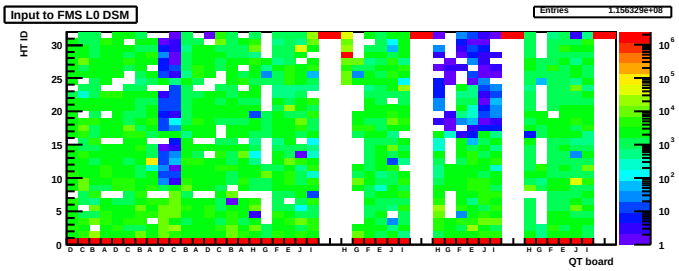

Input to FMS L0 DSM
Entries 1744012
QT8(2) sum - simulated
QT board

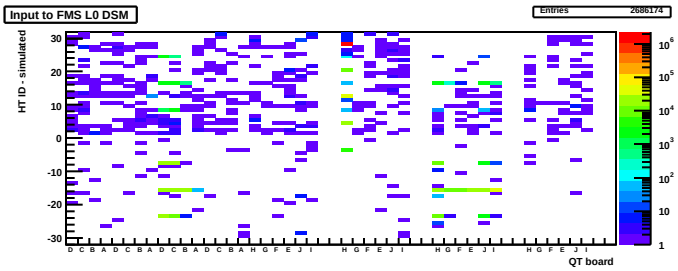

Input to FMS L0 DSM
Entries 1.156329e+08
QT8(3) sum
QT board

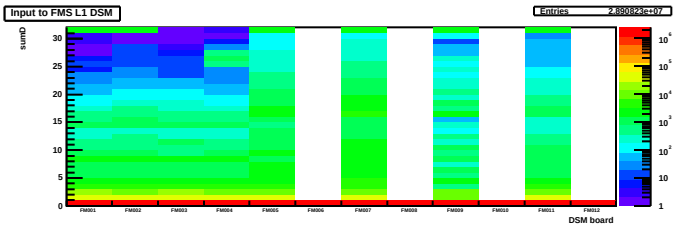

Input to FMS L0 DSM
Entries 2356547
QT8(3) sum - simulated
QT board

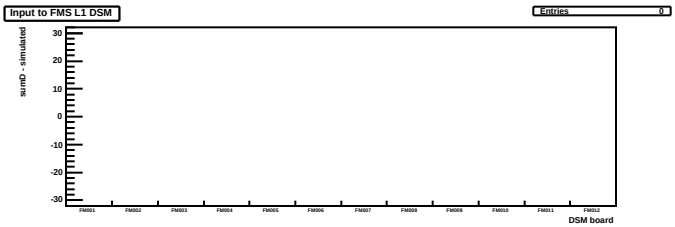

Input to FMS L0 DSM
Entries 1.156329e+08
HT ADC
QT board

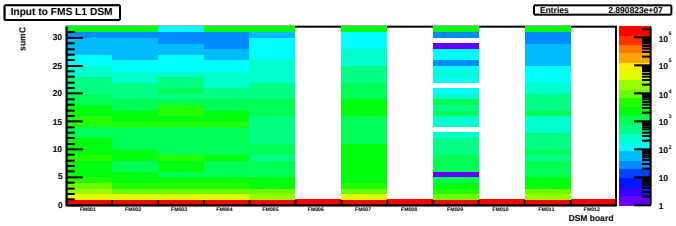

Input to FMS L0 DSM
Entries 256555
HT ADC - simulated
QT board

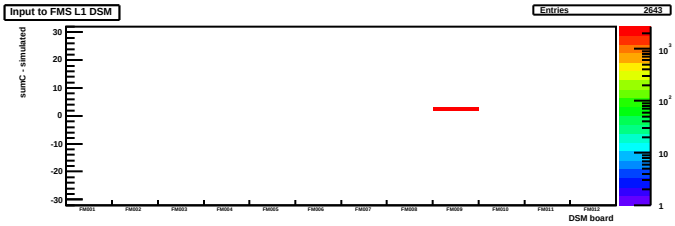

Input to FMS L0 DSM
Entries 1.156329e+08
HT ID
QT board

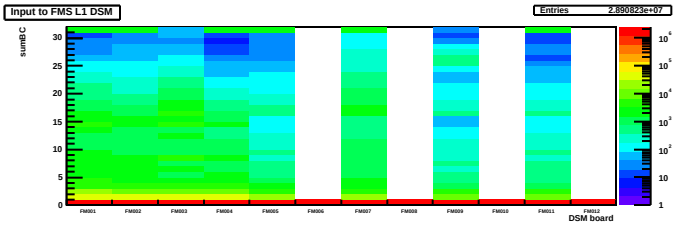

Input to FMS L0 DSM
Entries 2686174
HT ID - simulated
QT board

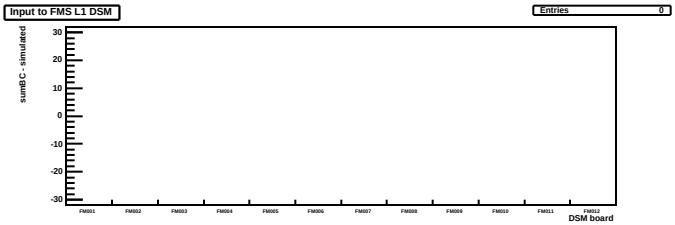

Input to FMS L1 DSM
Entries 2.890823e+07
sumD
DSM board

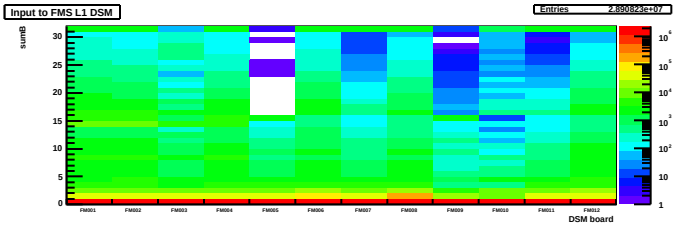

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

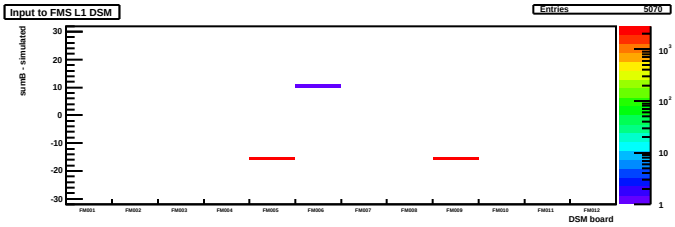

Input to FMS L1 DSM
Entries 2.890823e+07
sumC
DSM board

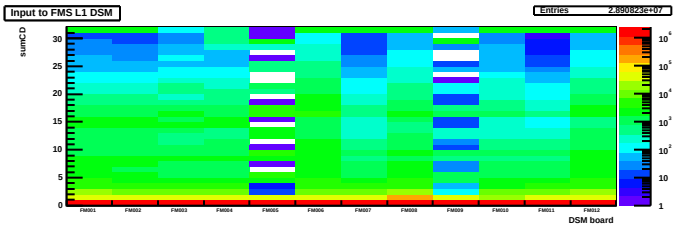

Input to FMS L1 DSM
Entries 2643
sumC - simulated
DSM board

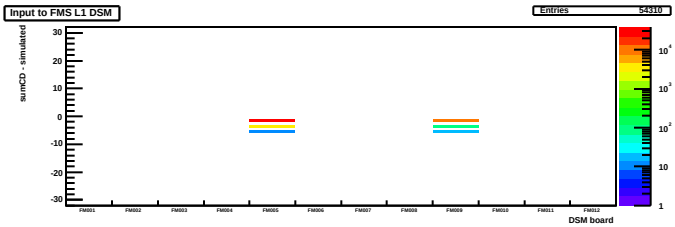

Input to FMS L1 DSM
Entries 2.890823e+07
sumBC
DSM board

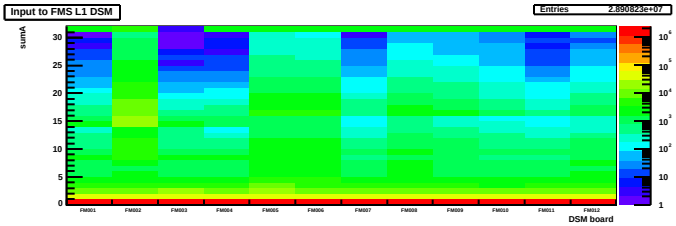

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

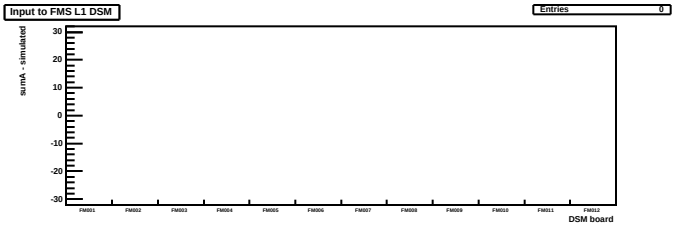

Input to FMS L1 DSM
Entries 2.890823e+07
sumB
DSM board

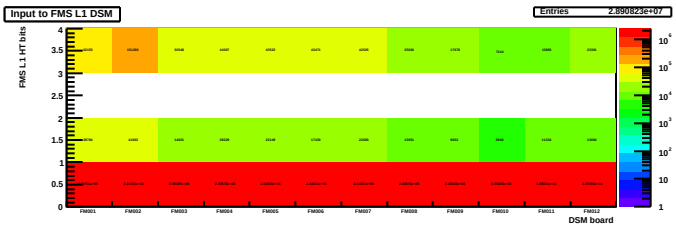

Input to FMS L1 DSM
Entries 5070
sumB - simulated
DSM board

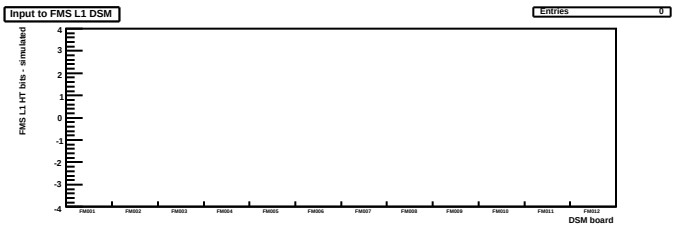

Input to FMS L1 DSM
Entries 2.890823e+07
sumCD
DSM board

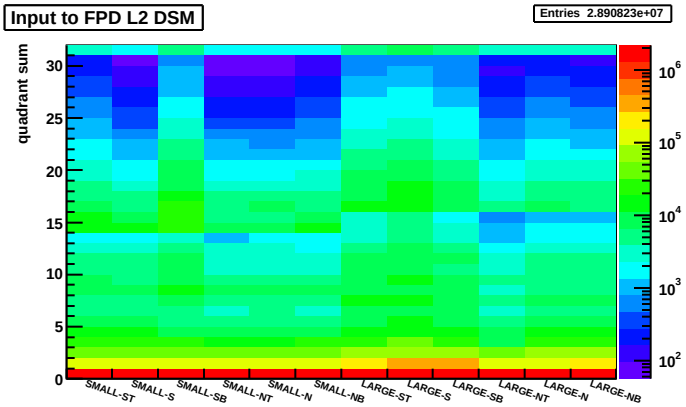

Input to FMS L1 DSM
Entries 54310
sumCD - simulated
DSM board

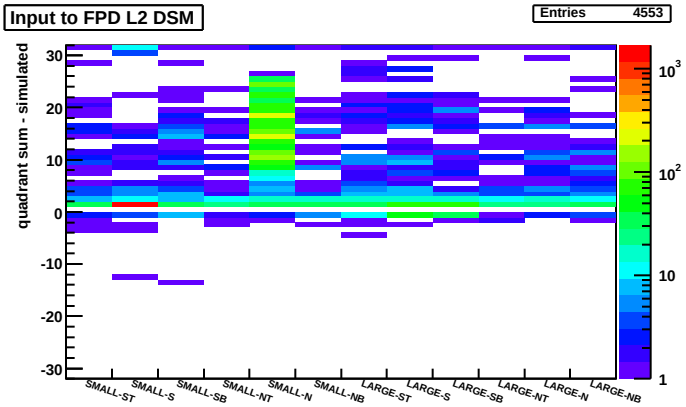

Input to FMS L1 DSM
Entries 2.890823e+07
sumA
DSM board

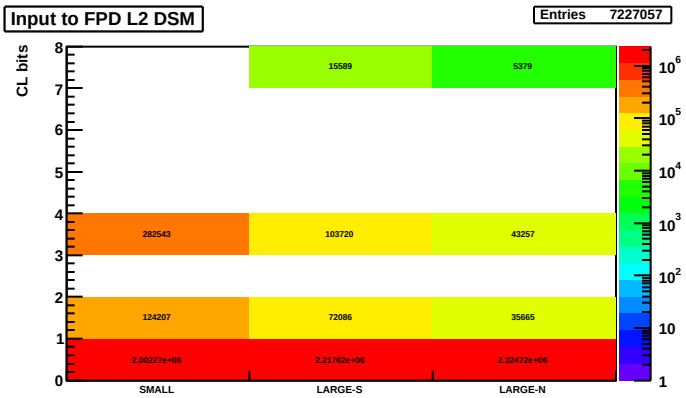

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

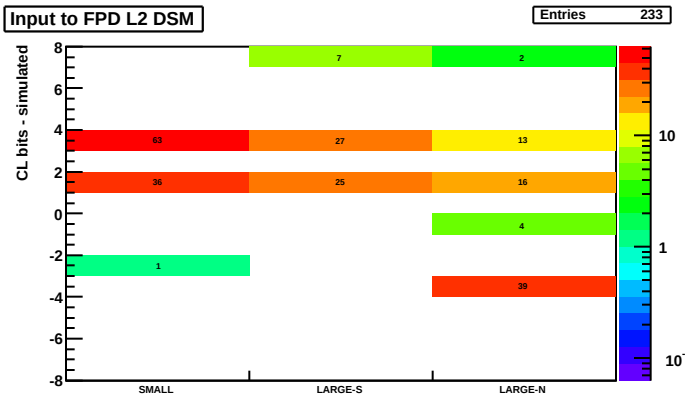

Input to FMS L1 DSM
Entries 2.890823e+07
FMS L1 HT bits
DSM board

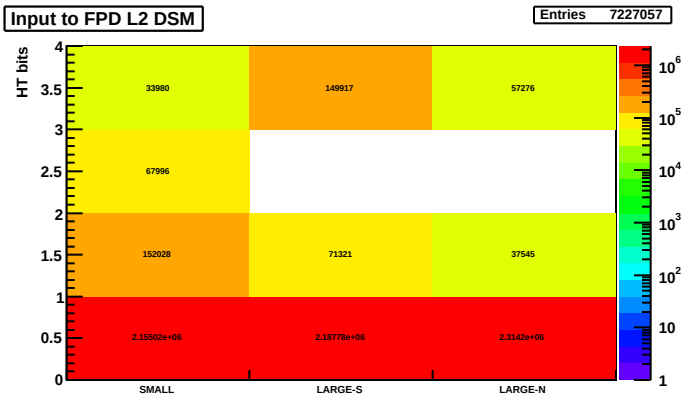

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

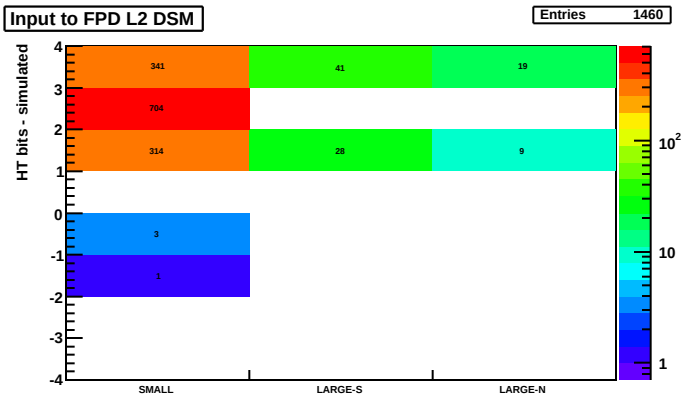

Input to FPD L2 DSM
Entries 2.890823e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

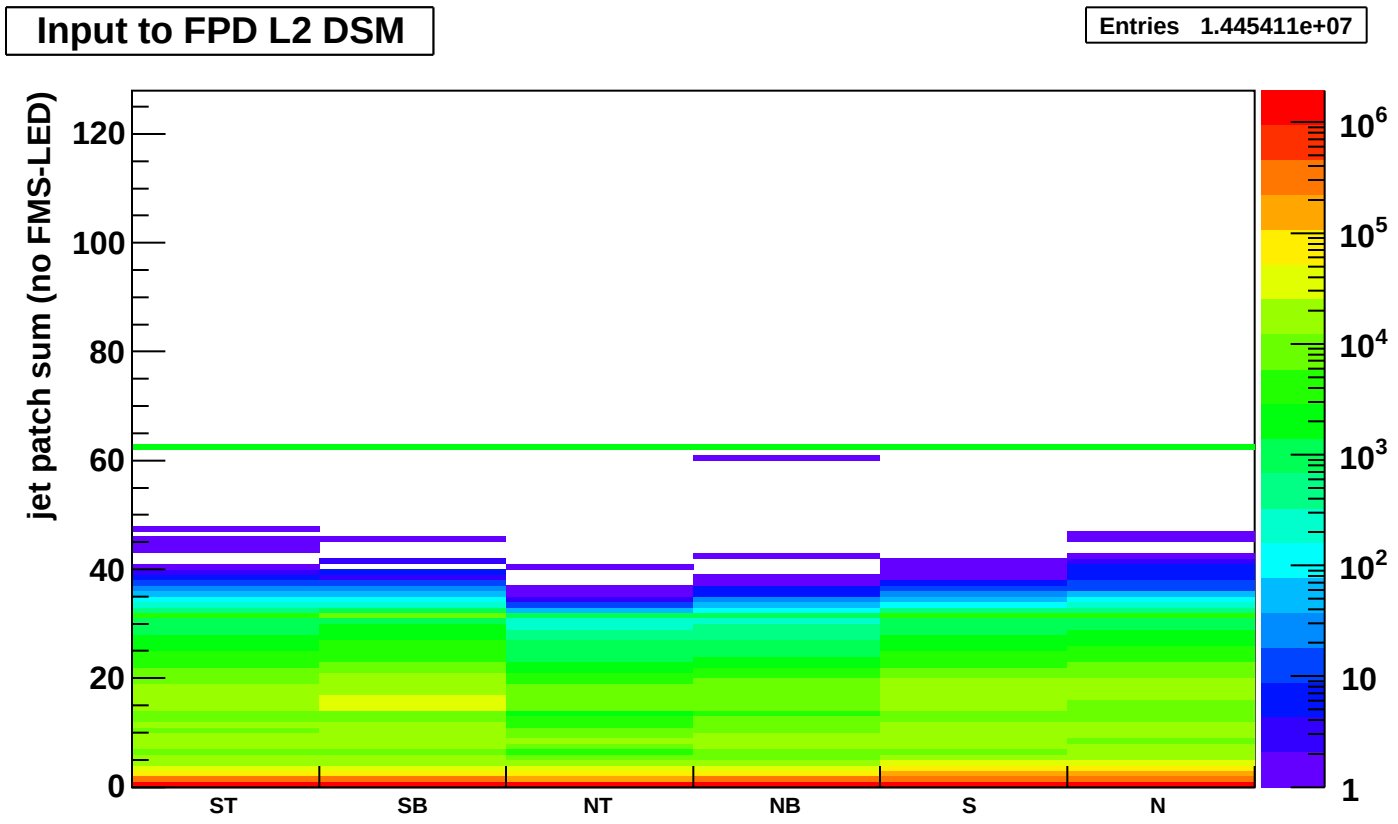

Input to FPD L2 DSM
Entries 4553
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

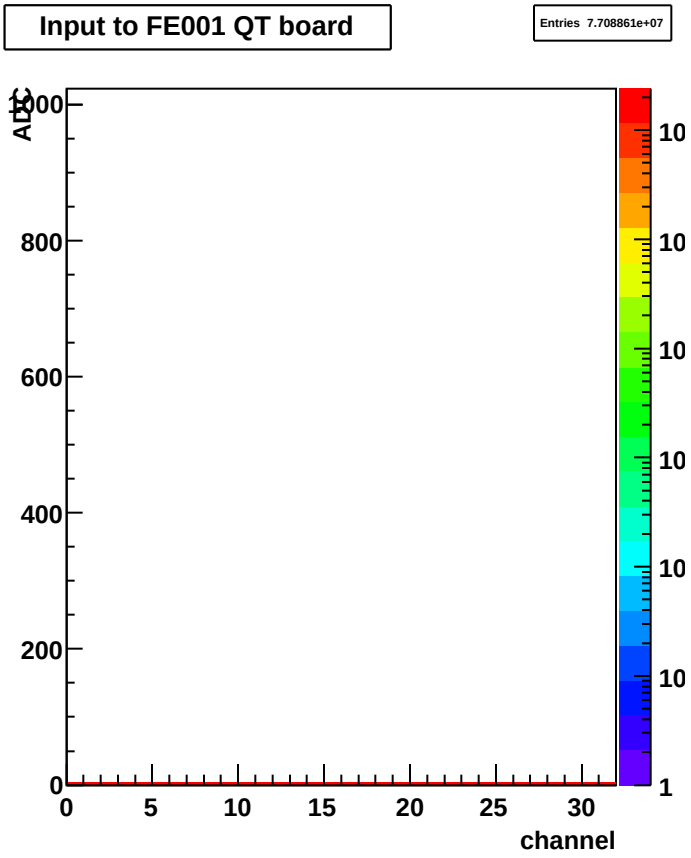

Input to FPD L2 DSM
Entries 7227057
CL bits
15589
5379
282543
103720
43257
124207
72086
35665
2.00227e+06
2.21762e+06
2.32472e+06
SMALL
LARGE-S
LARGE-N

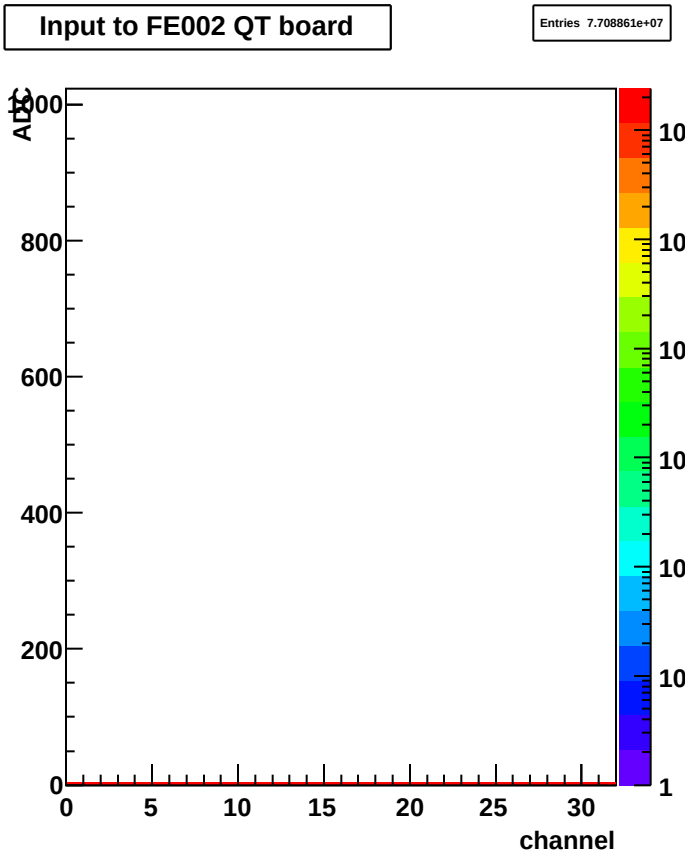

Input to FPD L2 DSM
Entries 233
CL bits - simulated
7
2
63
27
13
36
25
16
4
1
39
SMALL
LARGE-S
LARGE-N

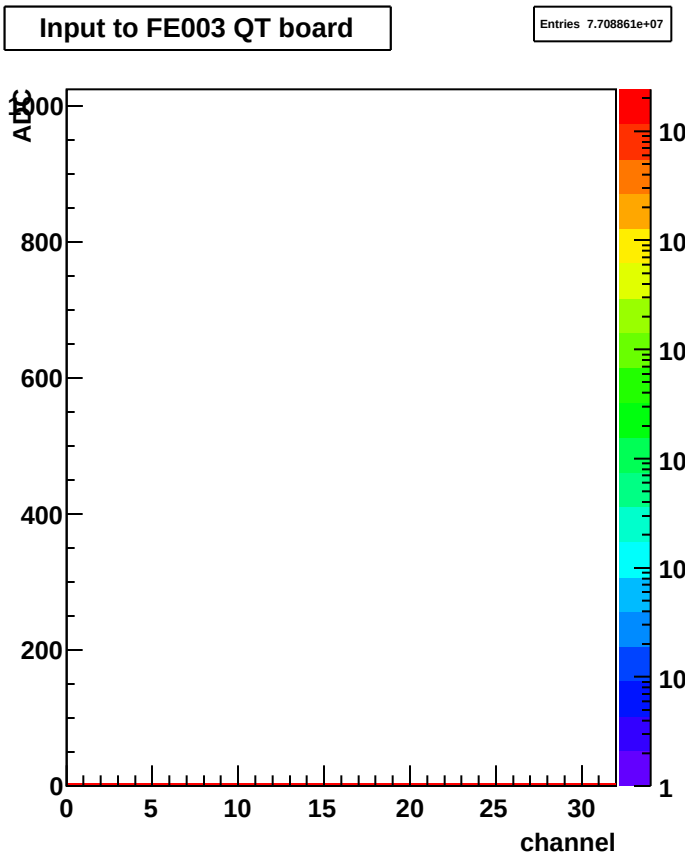

Input to FPD L2 DSM
Entries 7227057
HT bits
33980
149917
57276
67996
152028
71321
37545
2.15502e+06
2.18778e+06
2.3142e+06
SMALL
LARGE-S
LARGE-N

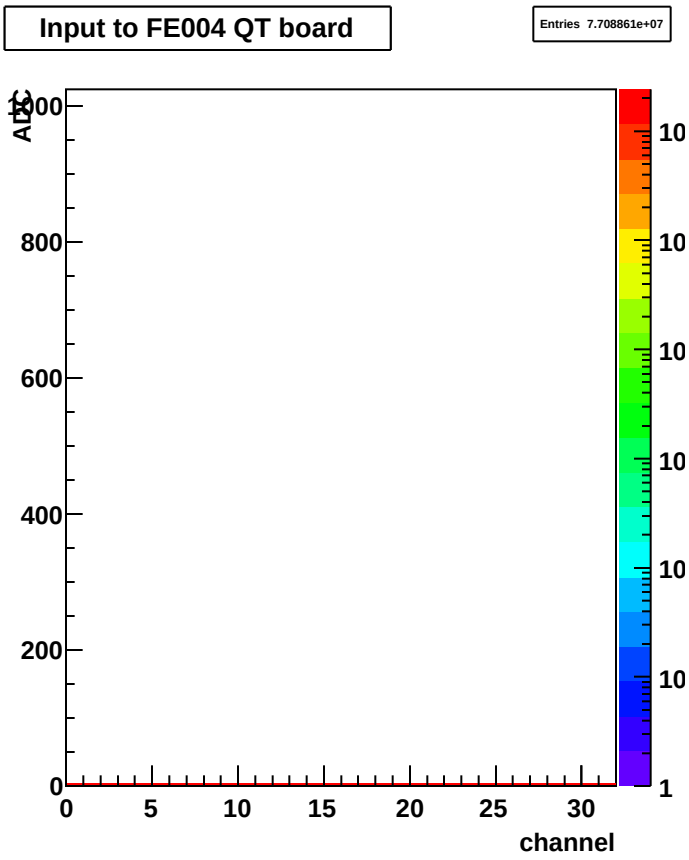

Input to FPD L2 DSM
Entries 1460
HT bits - simulated
341
41
19
704
314
28
9
3
1
SMALL
LARGE-S
LARGE-N

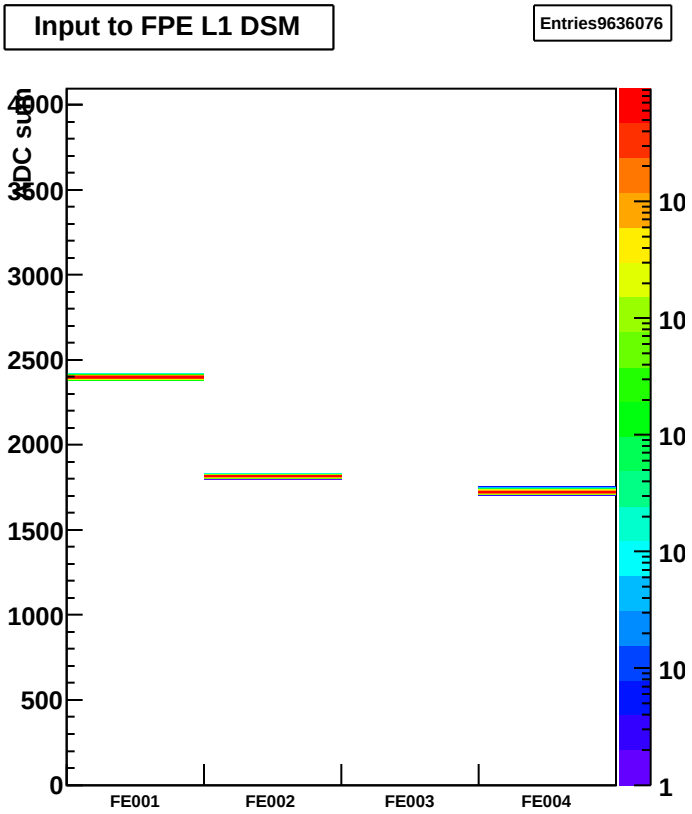

Input to FPD L2 DSM
Entries 1.445411e+07
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5
10^6

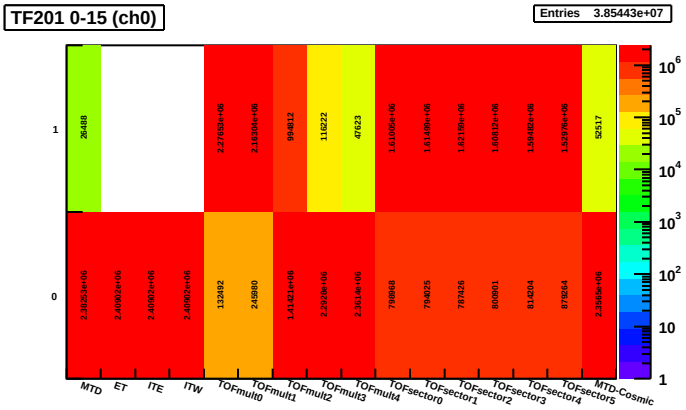

Input to FE001 QT board
Entries 7.708861e+07
ADC
channel

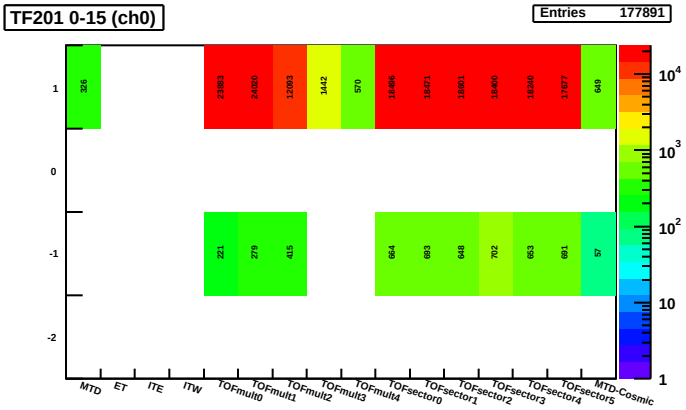

Input to FE002 QT board
Entries 7.708861e+07
ADC
channel

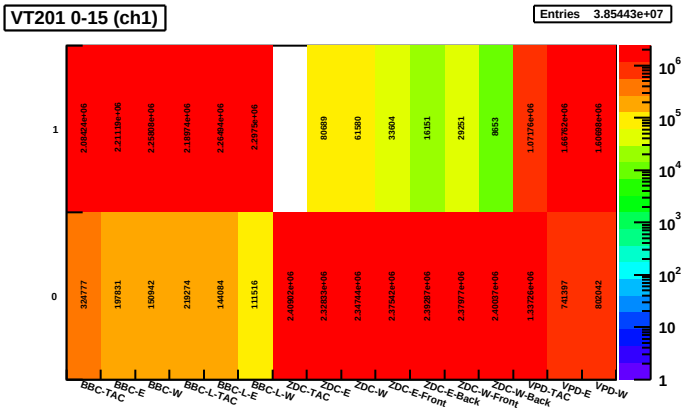

Input to FE003 QT board
Entries 7.708861e+07
ADC
channel

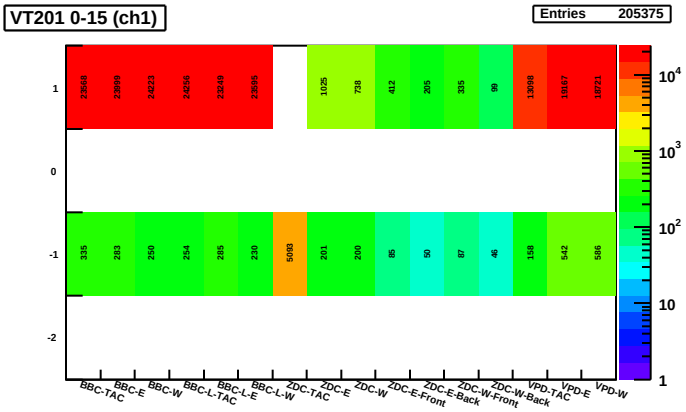

Input to FE004 QT board
Entries 7.708861e+07
ADC
channel


Input to FPE L1 DSM
Entries9636076
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


TF201 0-15 (ch0)
Entries 3.85443e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


TF201 0-15 (ch0)
Entries 177891
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic


VT201 0-15 (ch1)
Entries 3.85443e+07
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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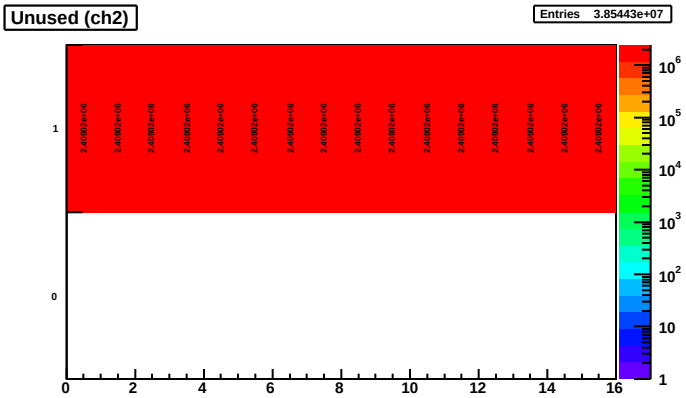
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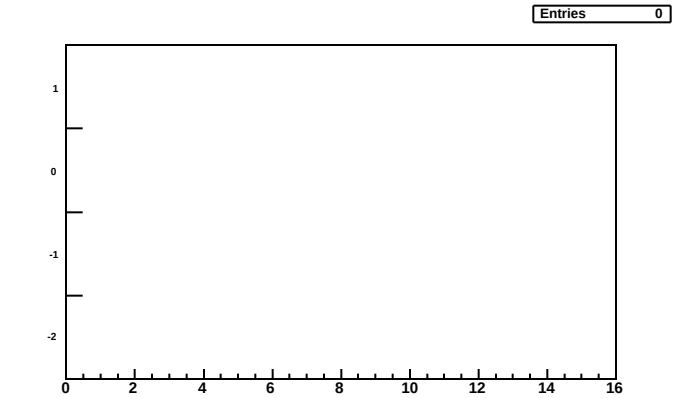
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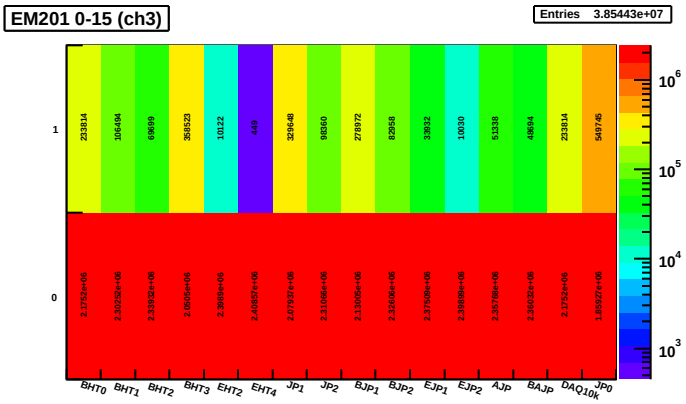
EM201 0-15 (ch3)
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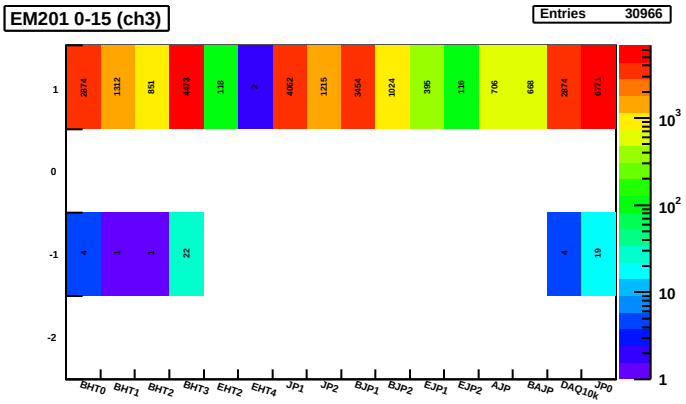
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Entries 30966
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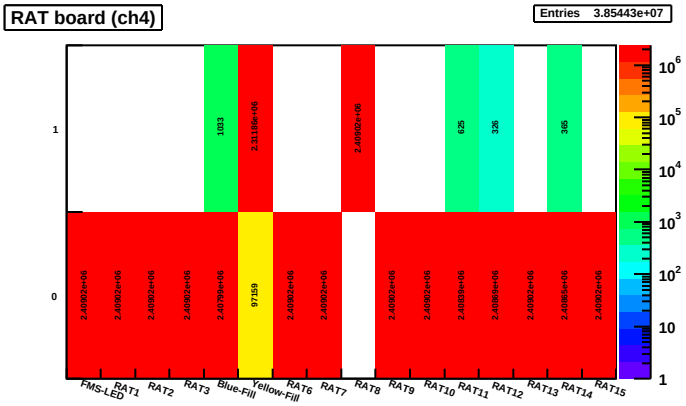
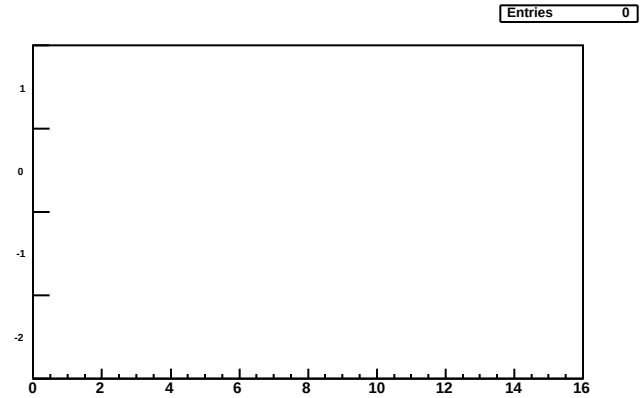
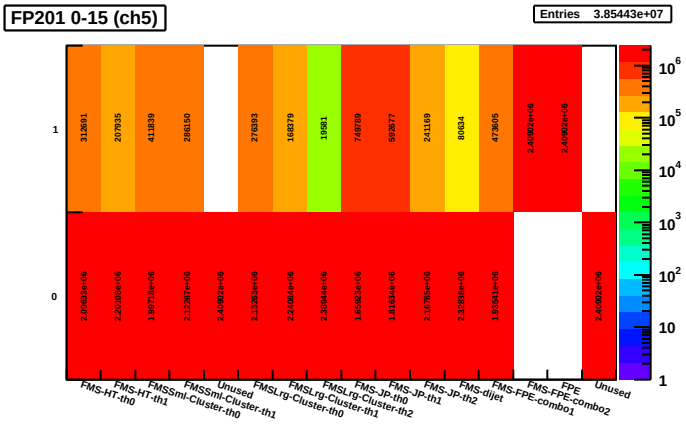
RAT board (ch4)





FP201 0-15 (ch5)



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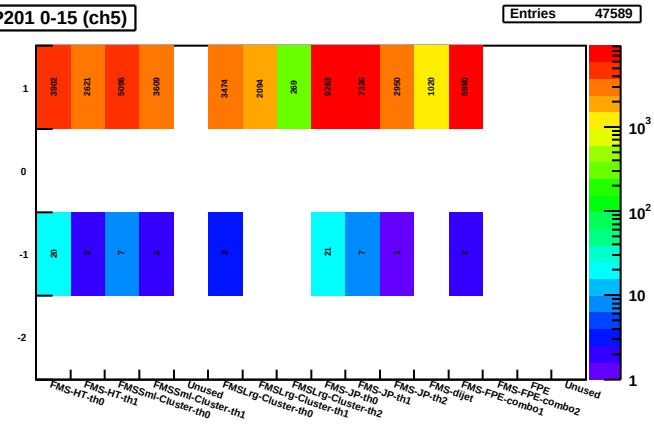
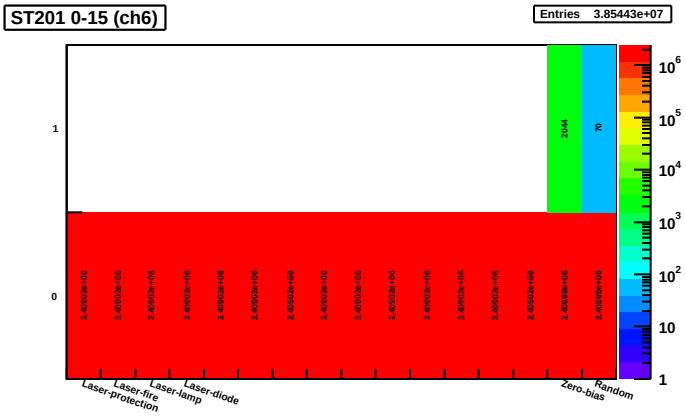
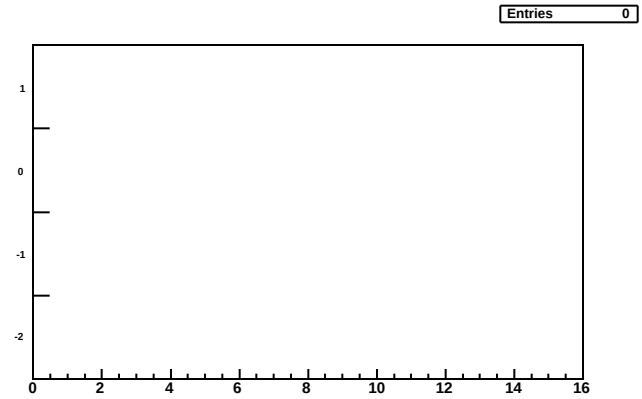
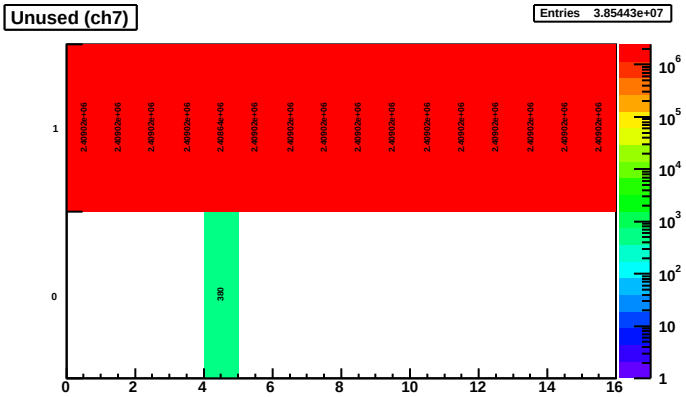
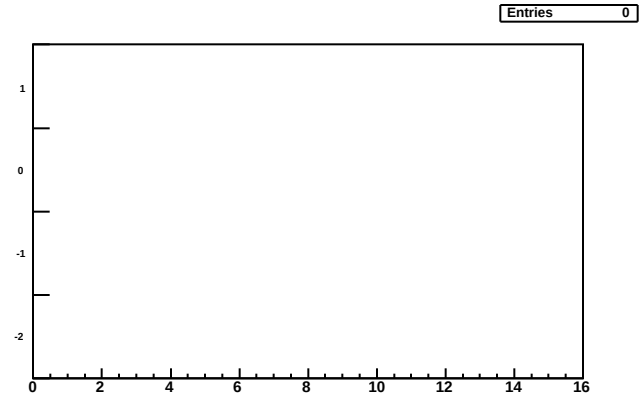


ST201 0-15 (ch6)





Unused (ch7)