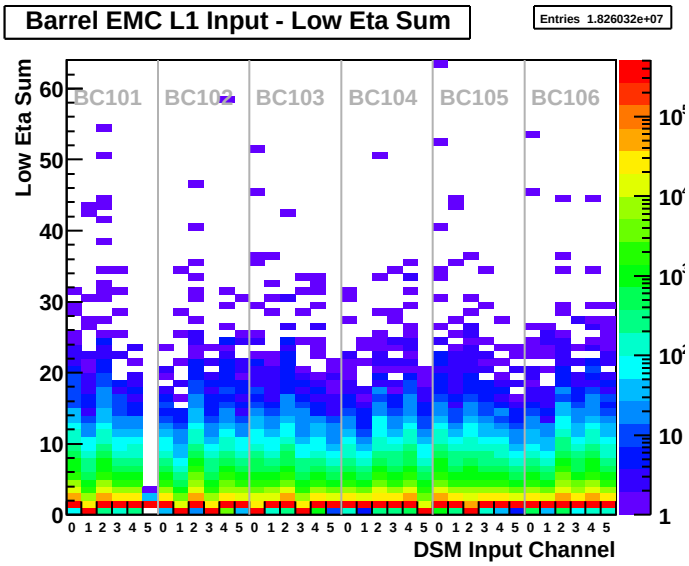
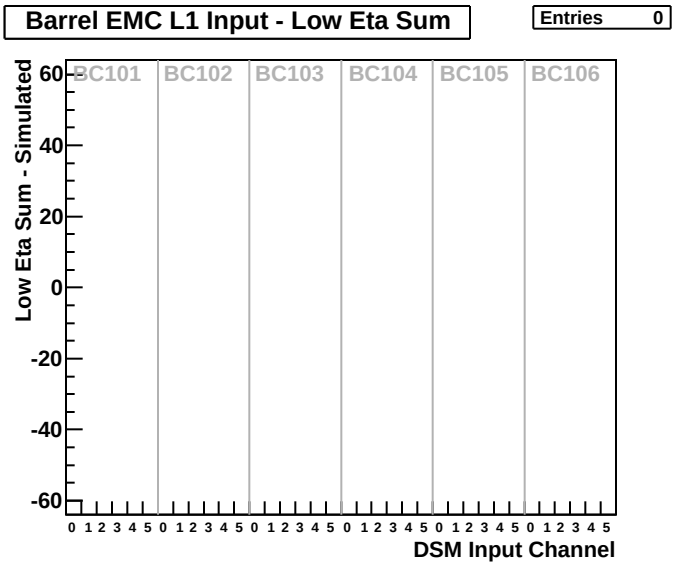
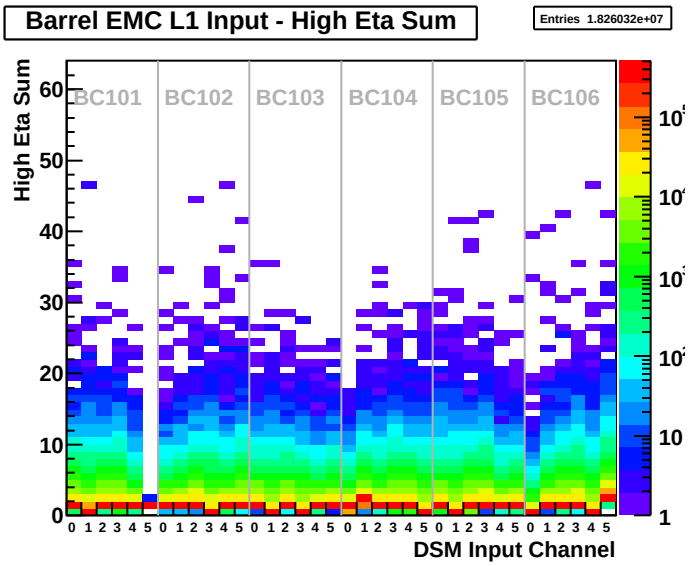
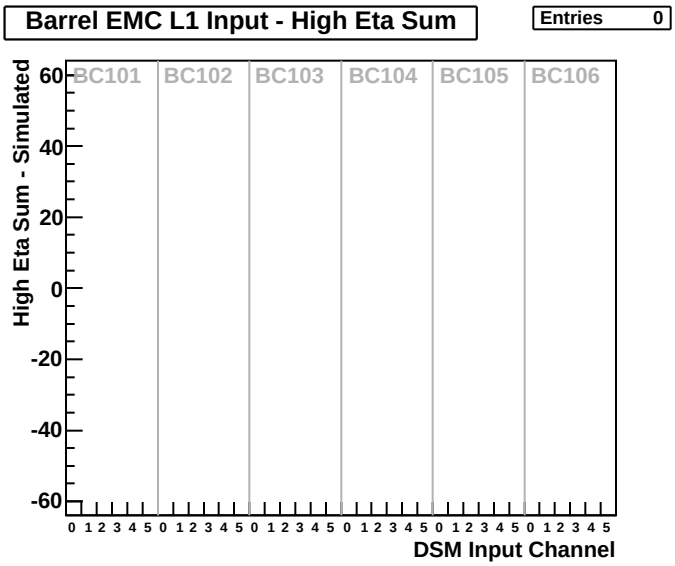
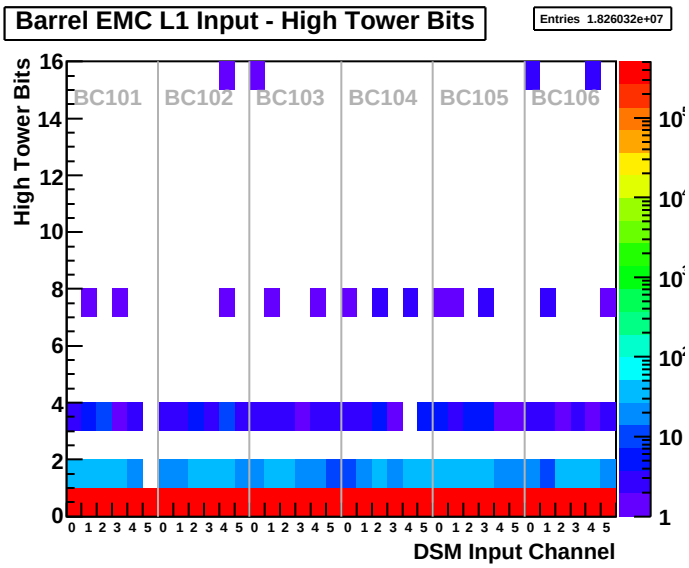
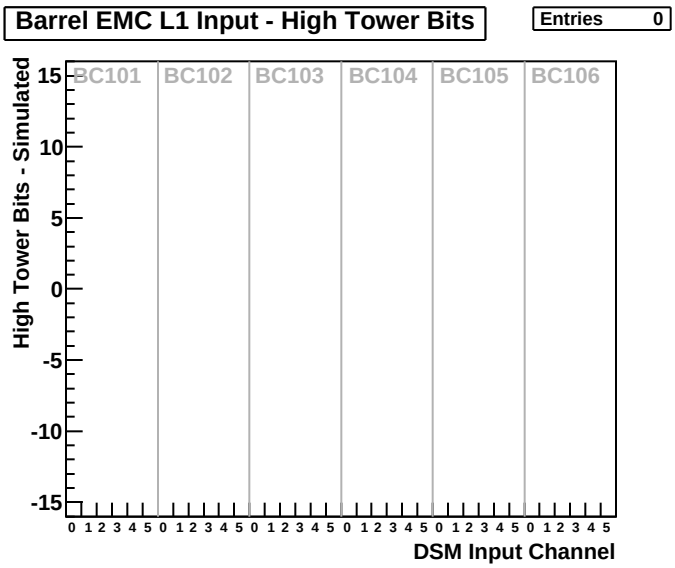

Barrel EMC L1 Input - Low Eta Sum
Entries 1.826032e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

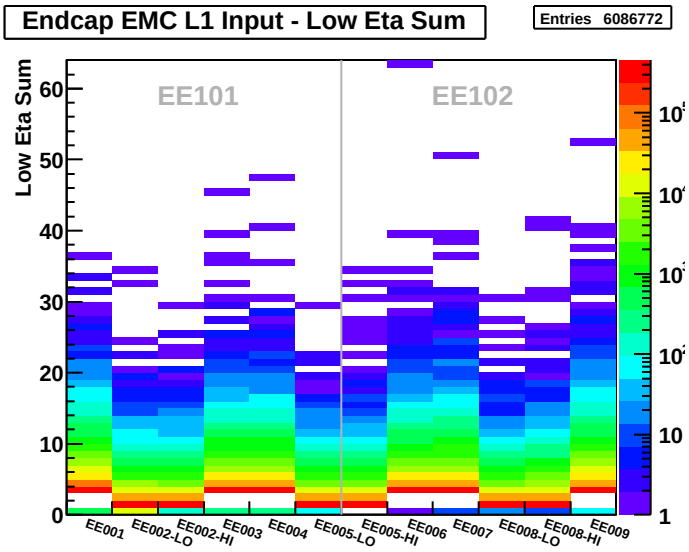

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

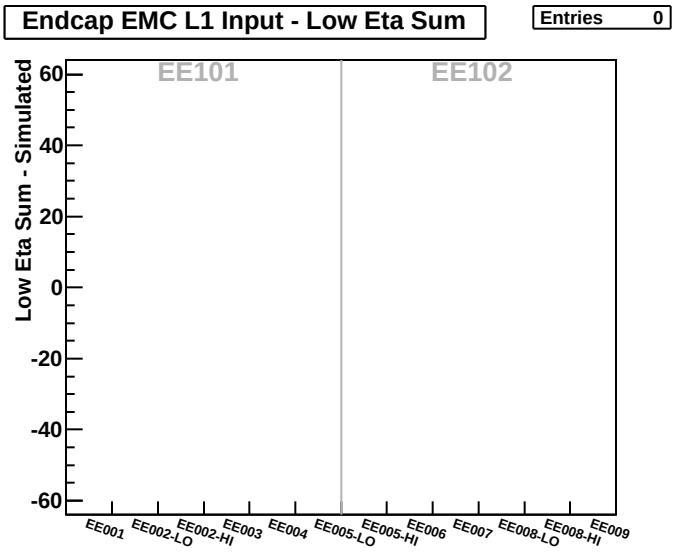

Barrel EMC L1 Input - High Eta Sum
Entries 1.826032e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

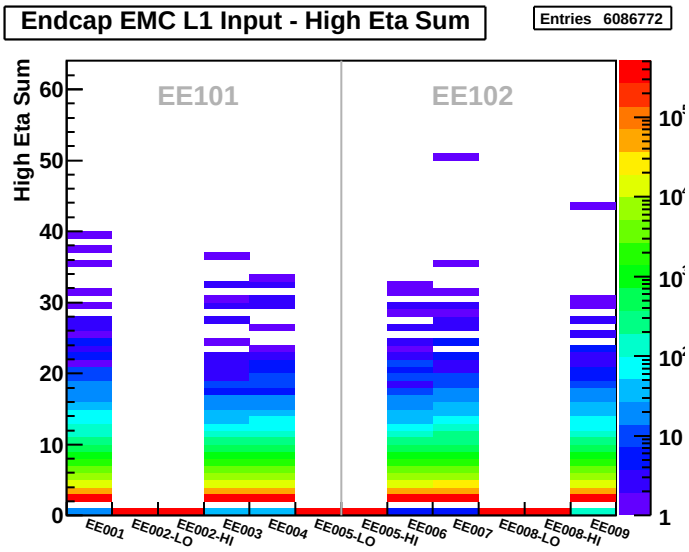

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

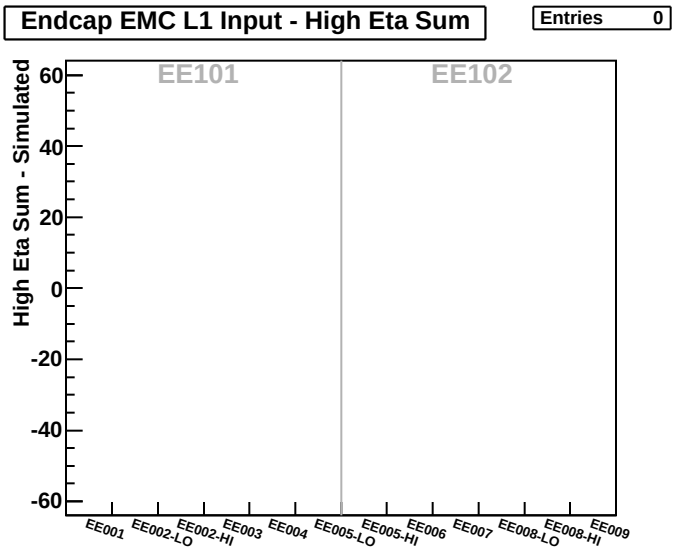

Barrel EMC L1 Input - High Tower Bits
Entries 1.826032e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

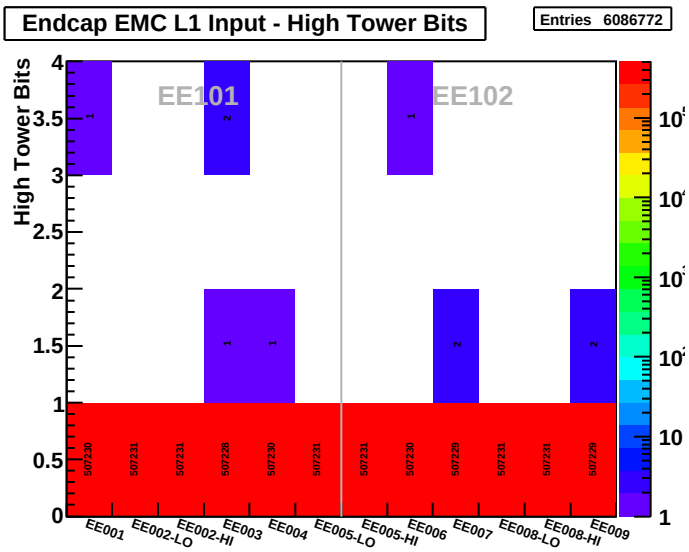

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

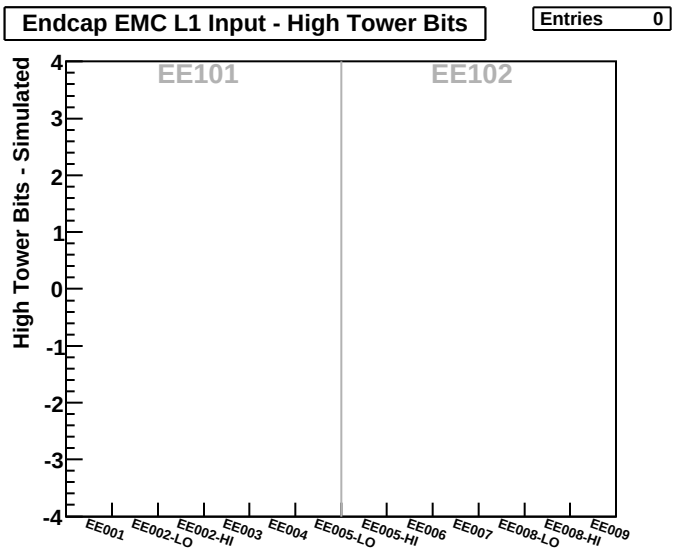

Endcap EMC L1 Input - Low Eta Sum
Entries 6086772
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

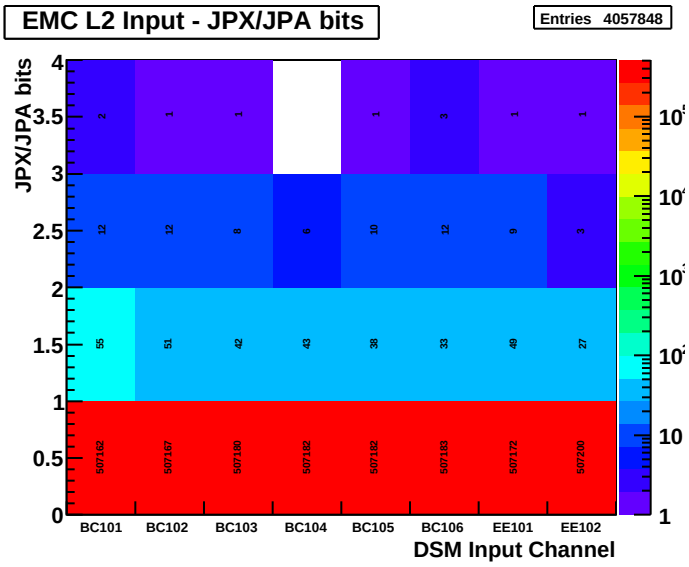

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

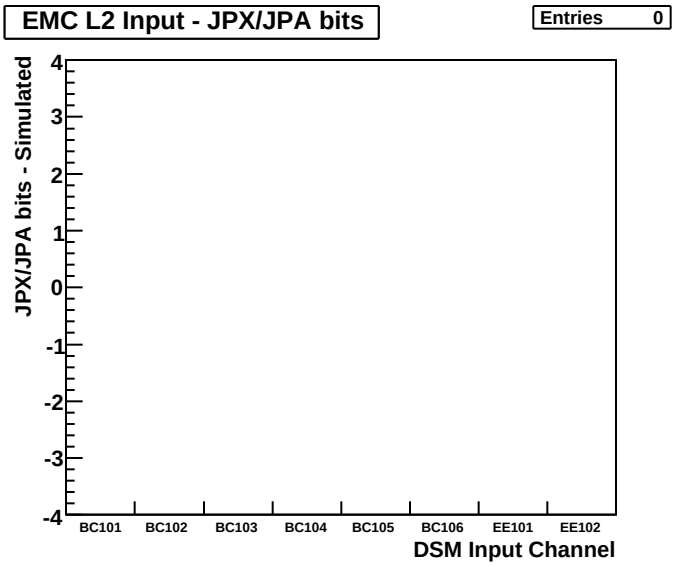

Endcap EMC L1 Input - High Eta Sum
Entries 6086772
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

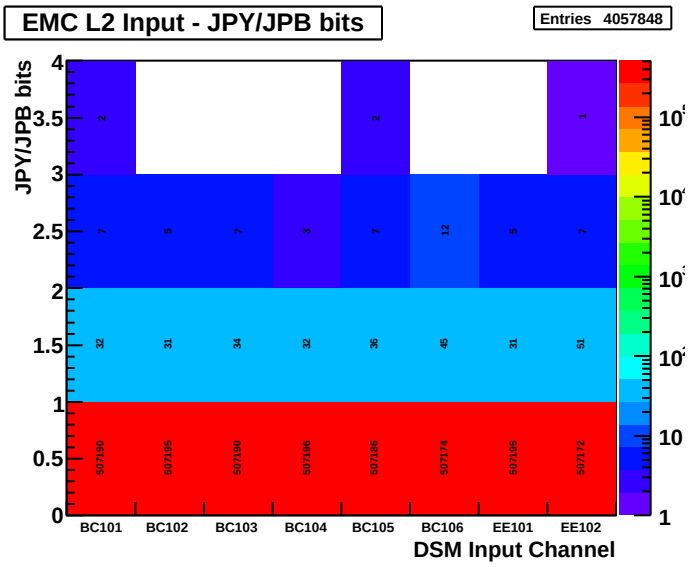

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

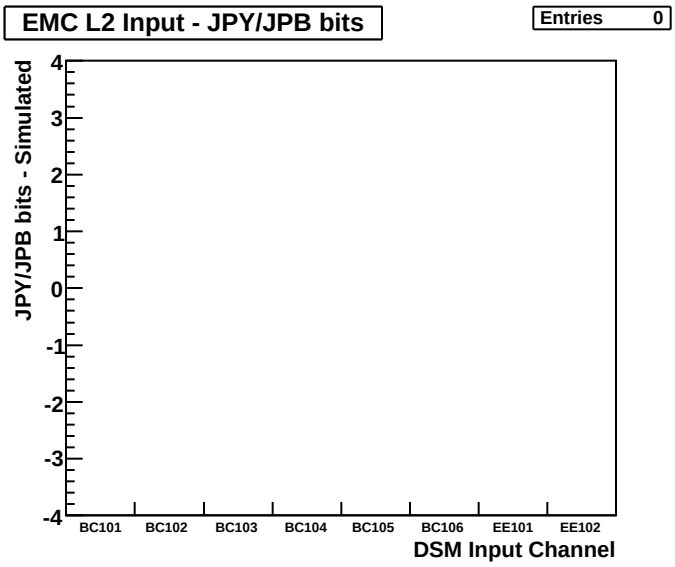

Endcap EMC L1 Input - High Tower Bits
Entries 6086772
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

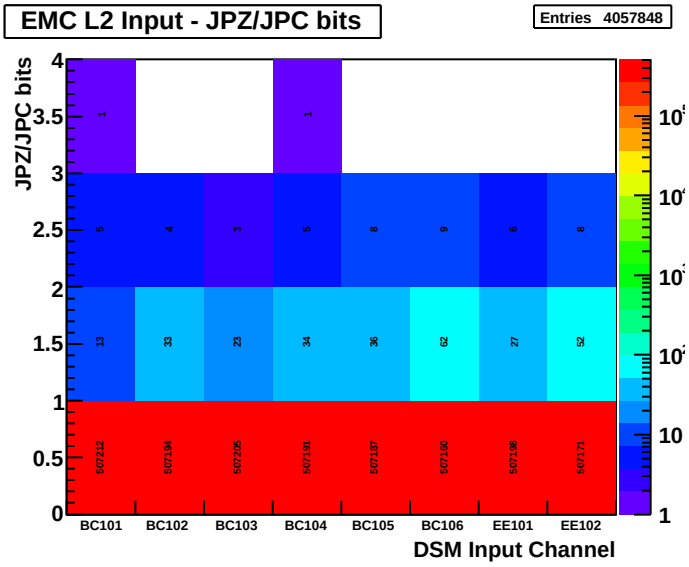

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

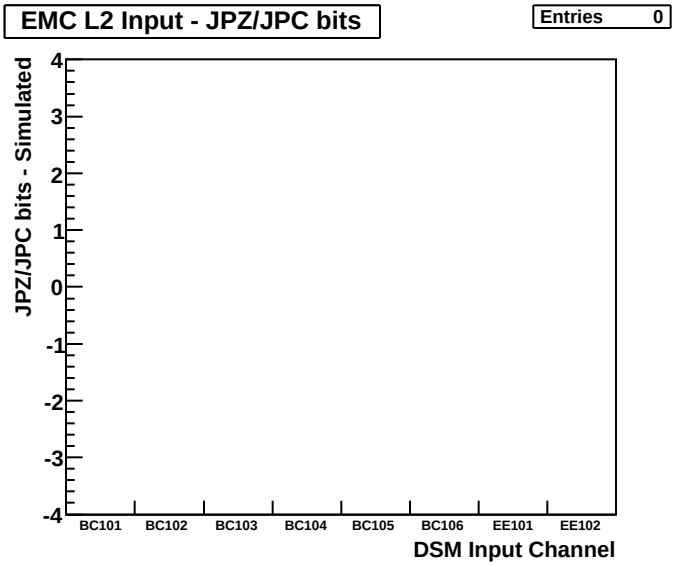

EMC L2 Input - JPX/JPA bits
Entries 4057848
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

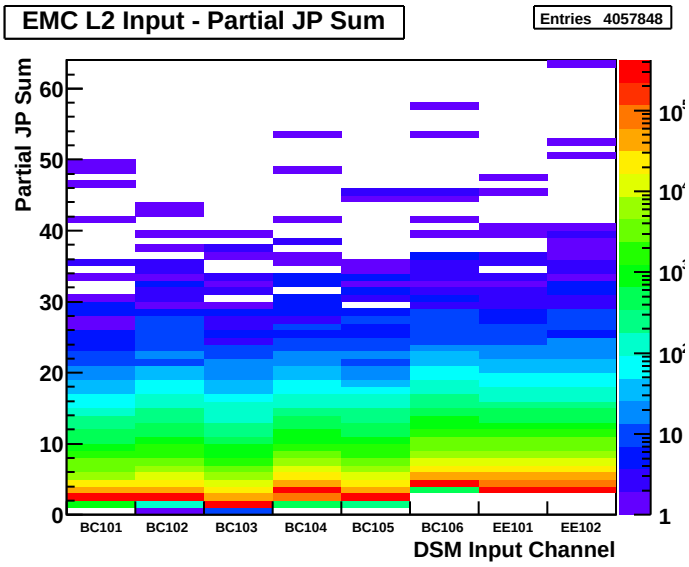

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

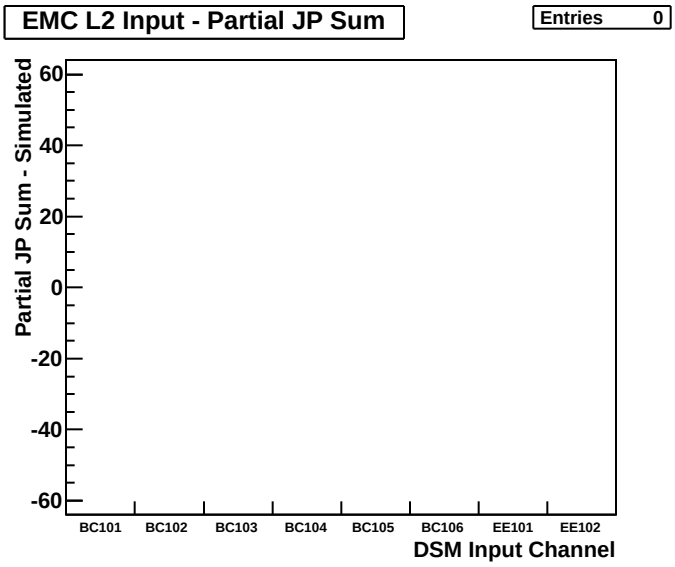

EMC L2 Input - JPY/JPB bits
Entries 4057848
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

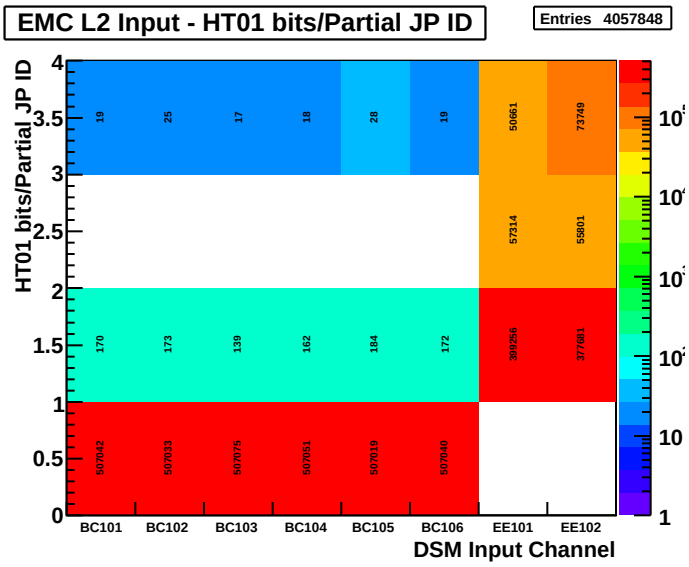

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

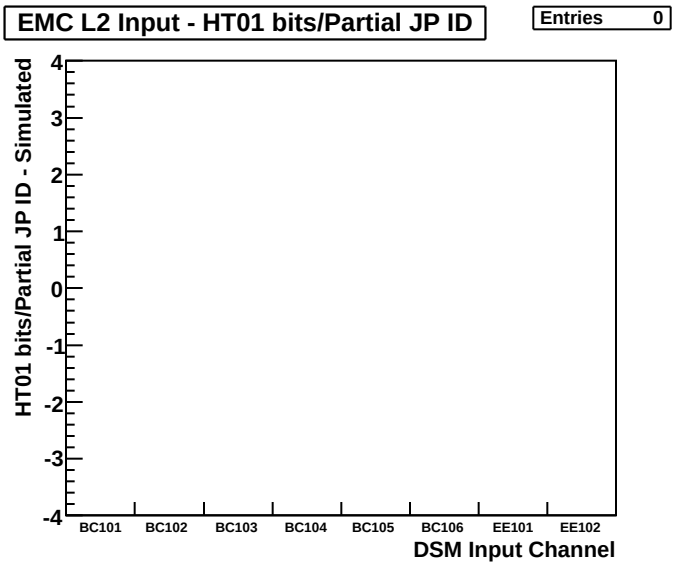

EMC L2 Input - JPZ/JPC bits
Entries 4057848
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

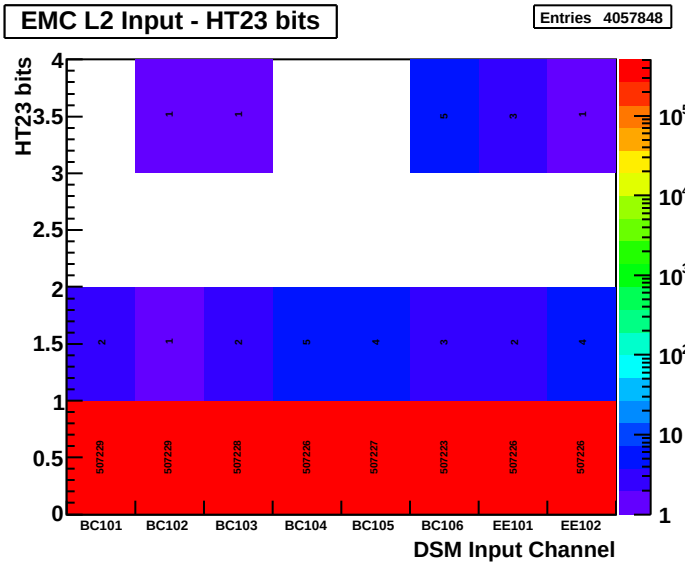

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

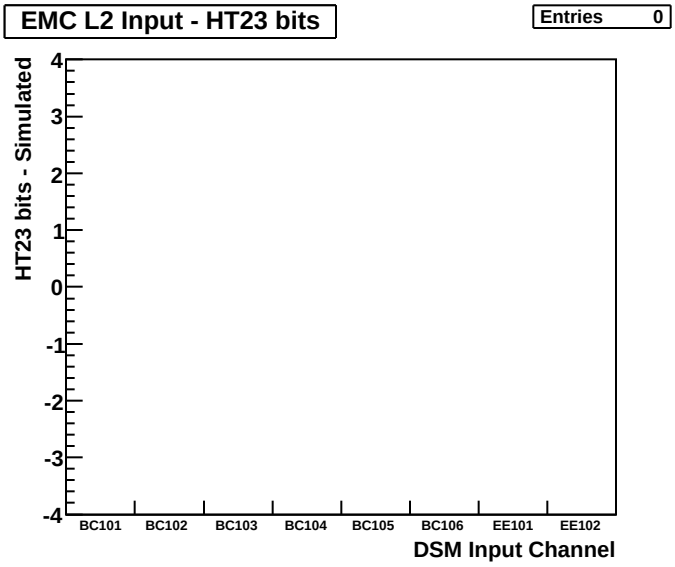

EMC L2 Input - Partial JP Sum
Entries 4057848
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

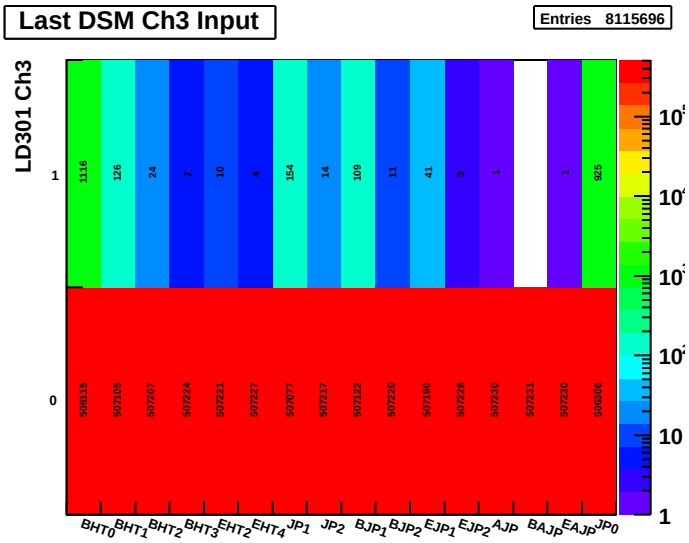

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

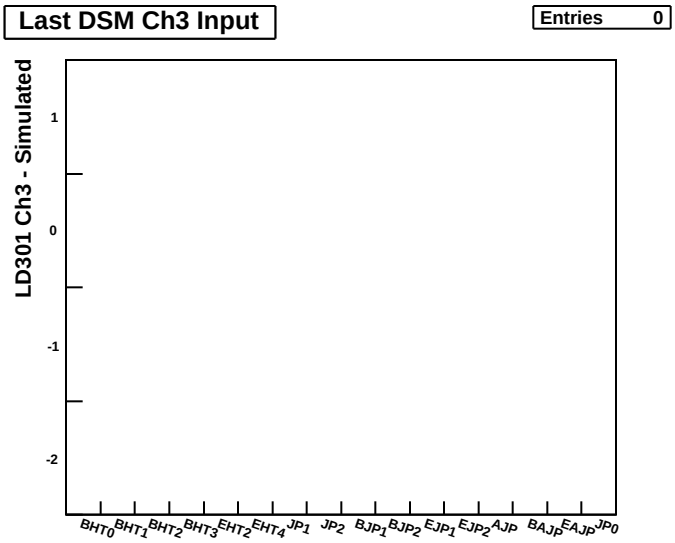

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4057848
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

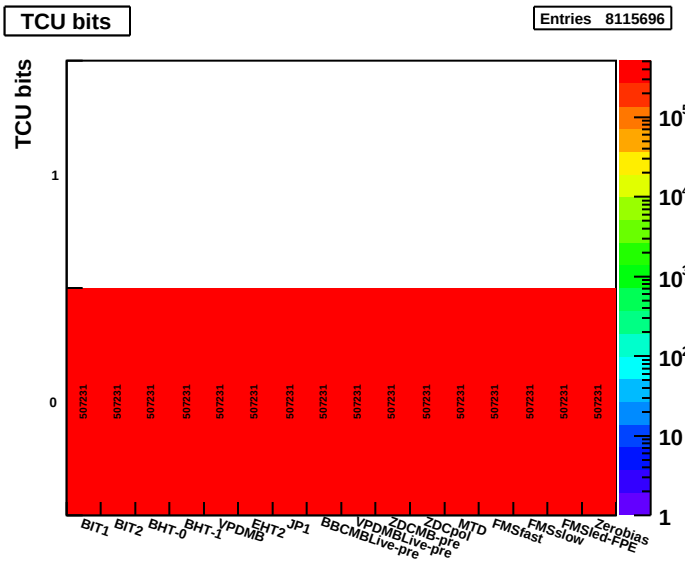

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

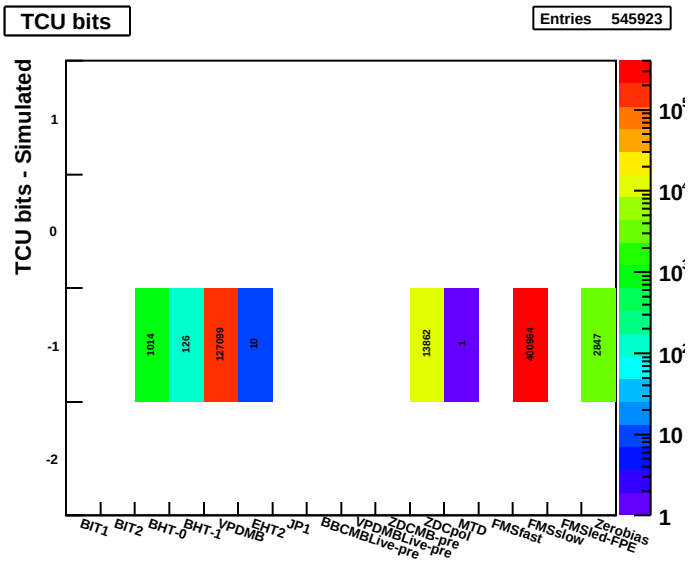

EMC L2 Input - HT23 bits
Entries 4057848
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

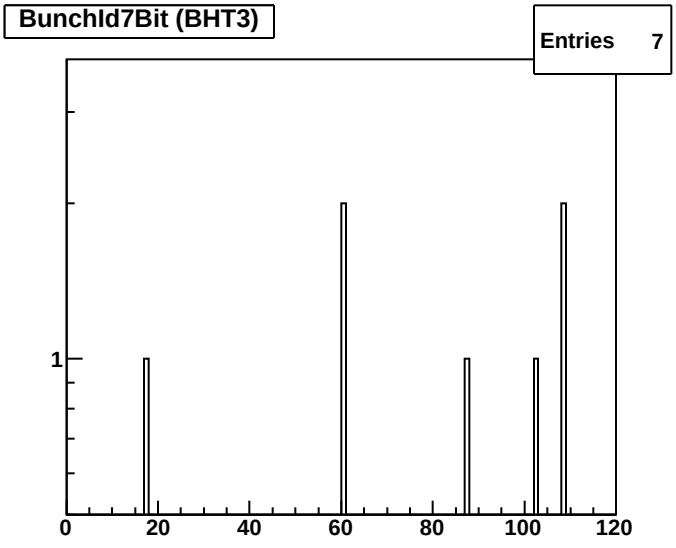

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

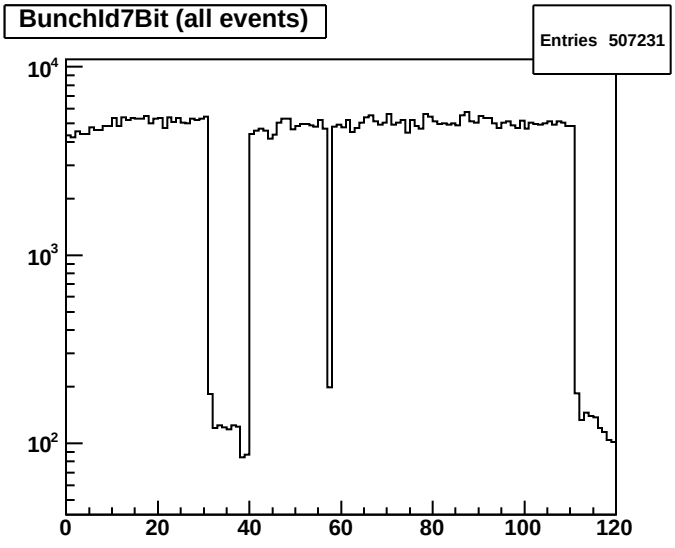

Last DSM Ch3 Input
Entries 8115696
LD301 Ch3
1116 126 24 7 10 4 154 14 109 11 41 3 1 1 925
506115 507105 507207 507224 507221 507227 507077 507217 507122 507220 507190 507228 507230 507231 507230 506306
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

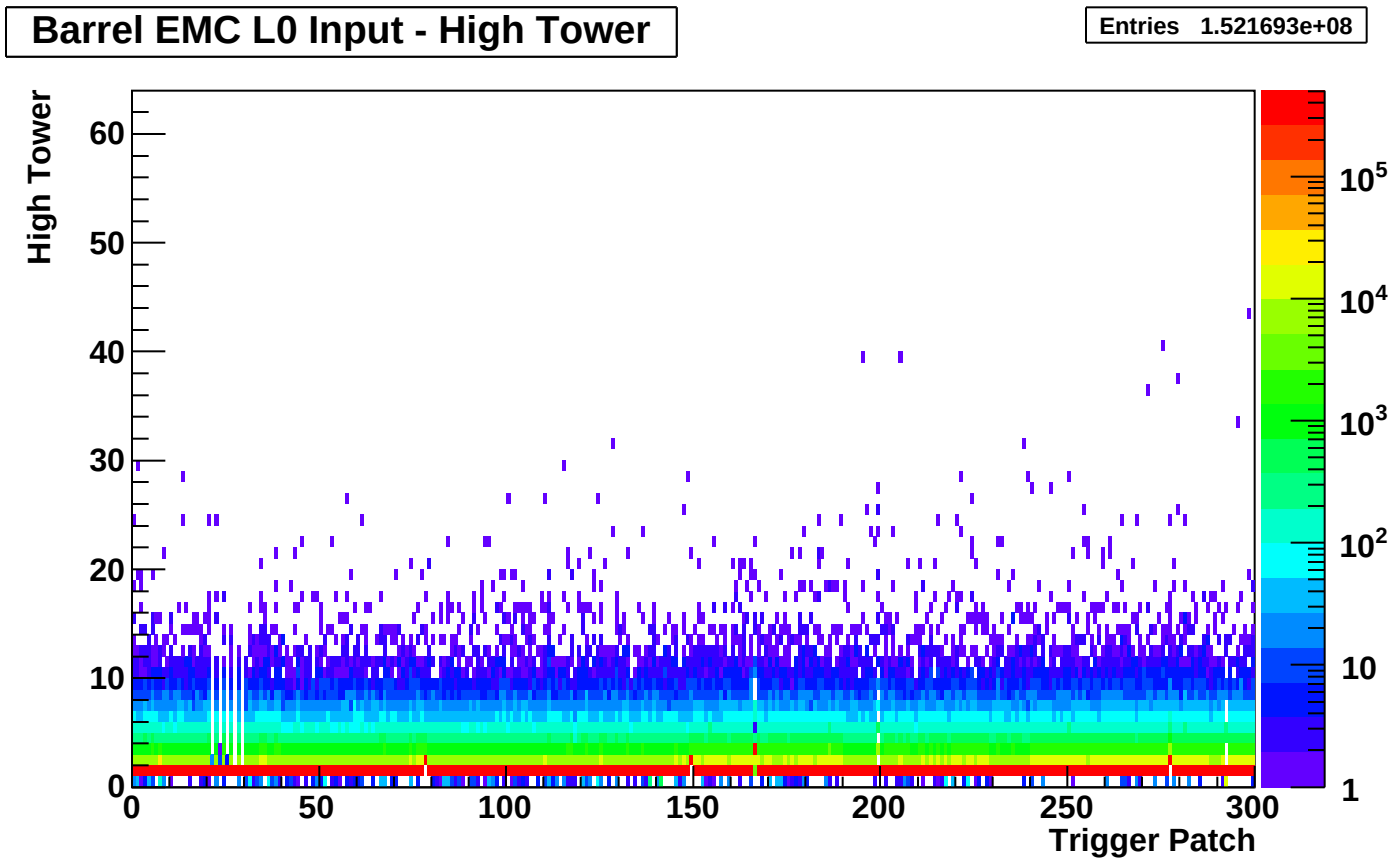

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

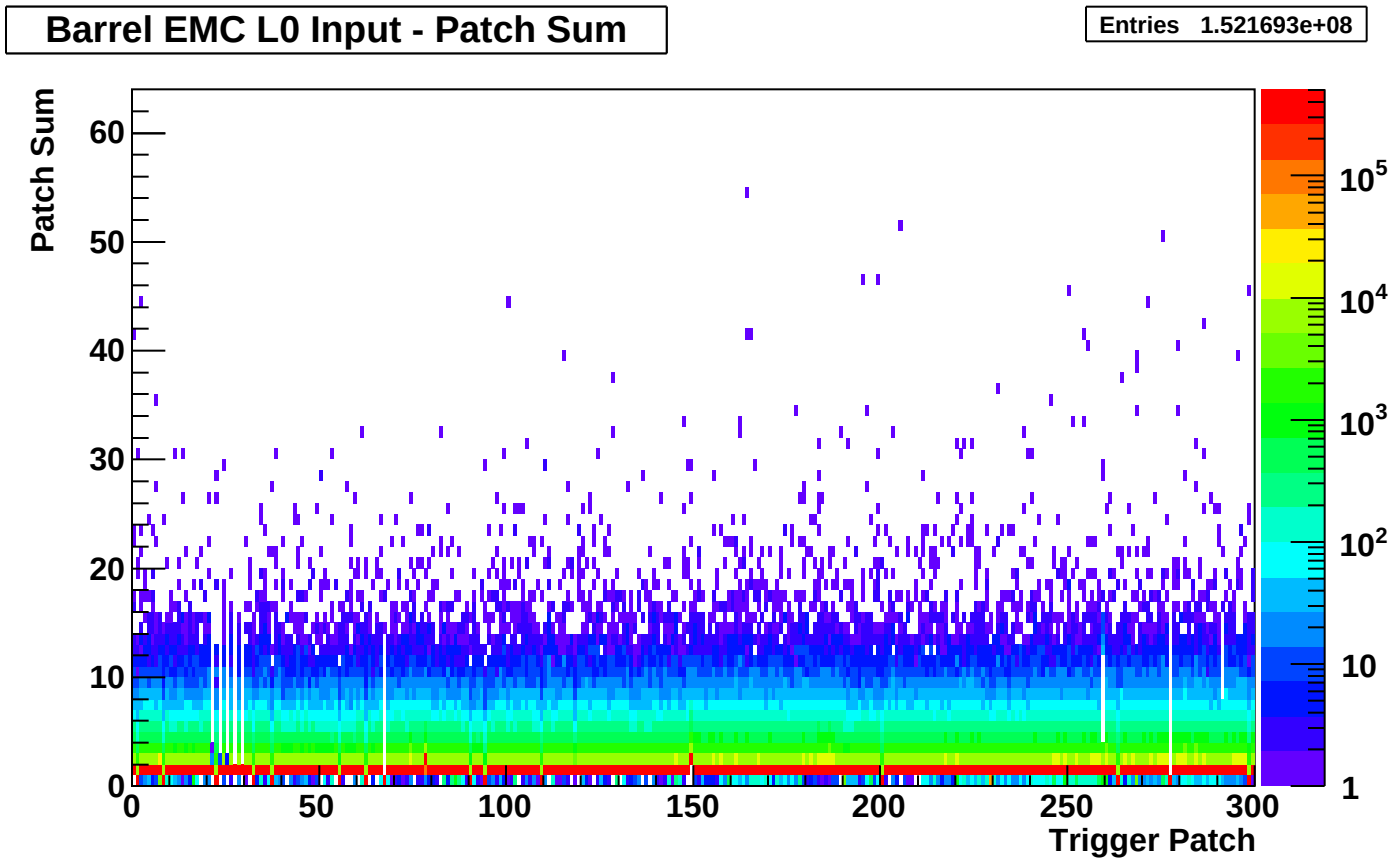

TCU bits
Entries 8115696
507231 507231 507231 507231 507231 507231 507231 507231 507231 507231 507231 507231 507231 507231 507231 507231
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

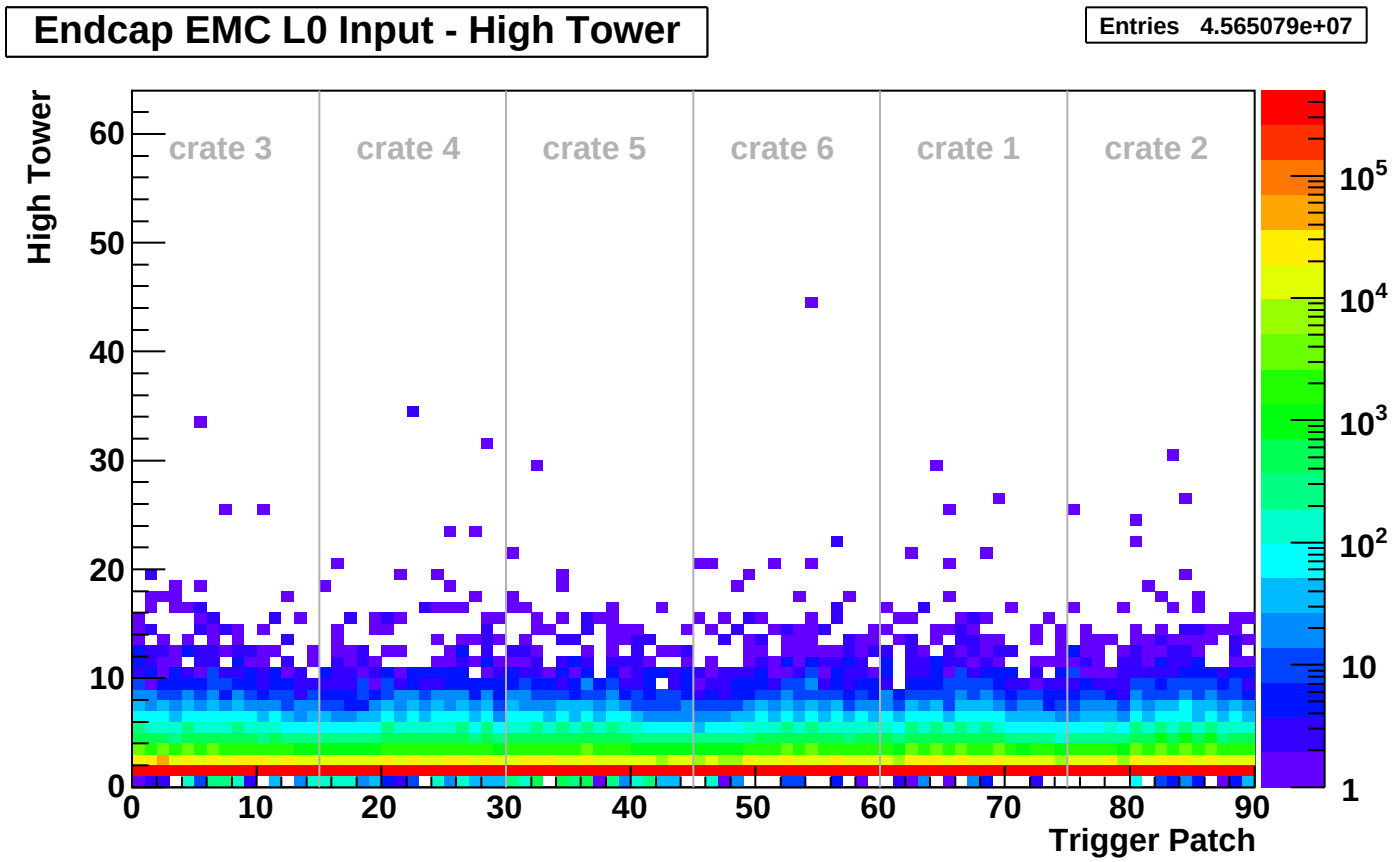

TCU bits
Entries 545923
TCU bits - Simulated
1014 126 127099 10 13862 1 409964 2947
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

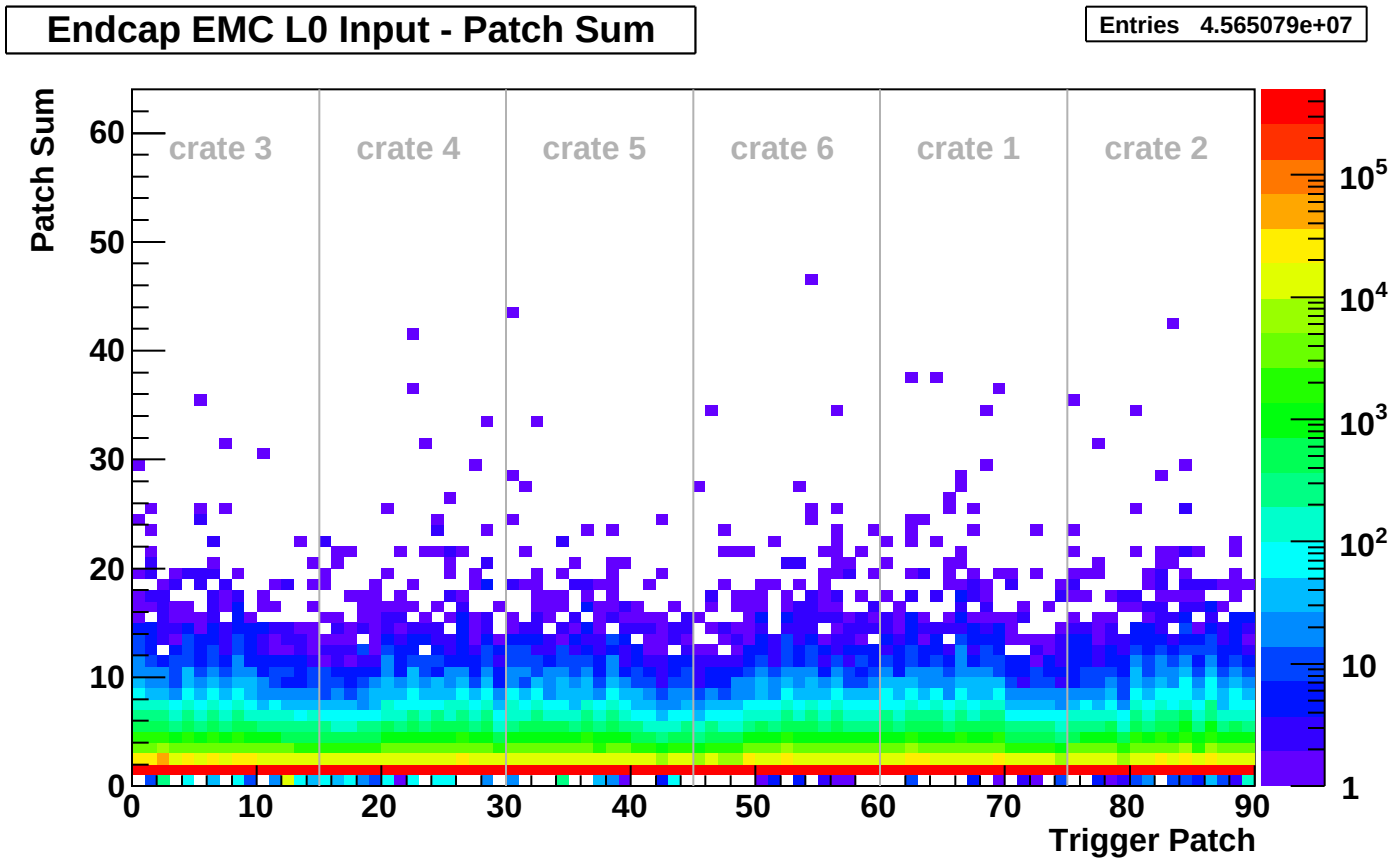

BunchId7Bit (BHT3)
Entries 7

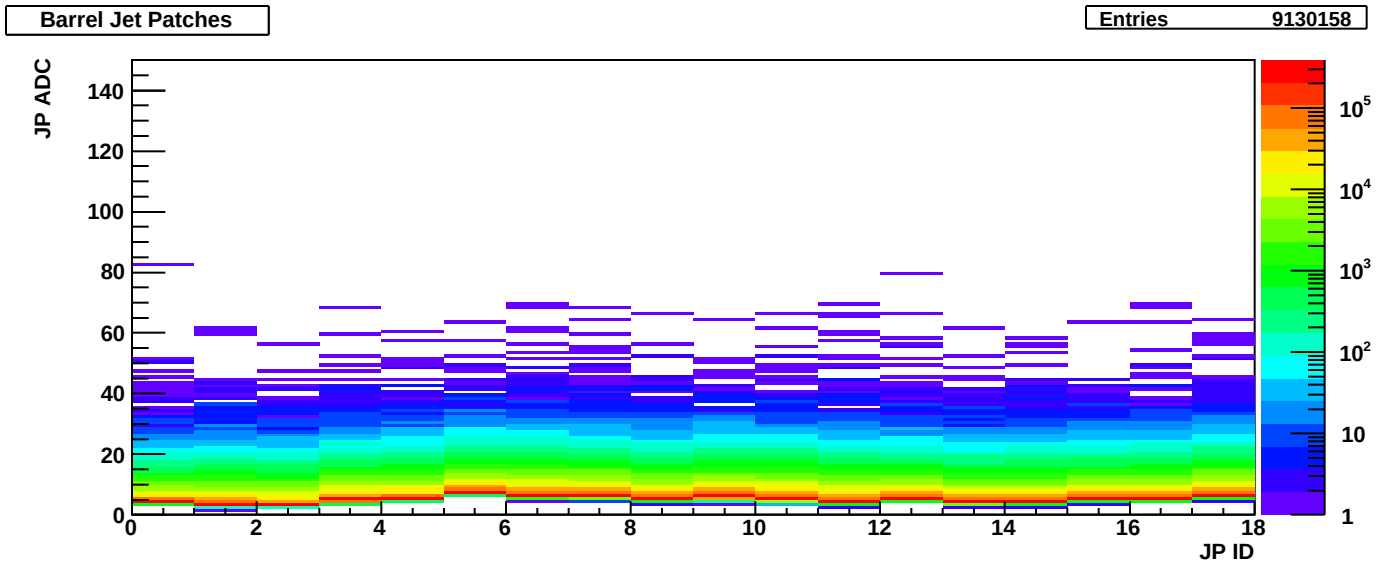

BunchId7Bit (all events)
Entries 507231

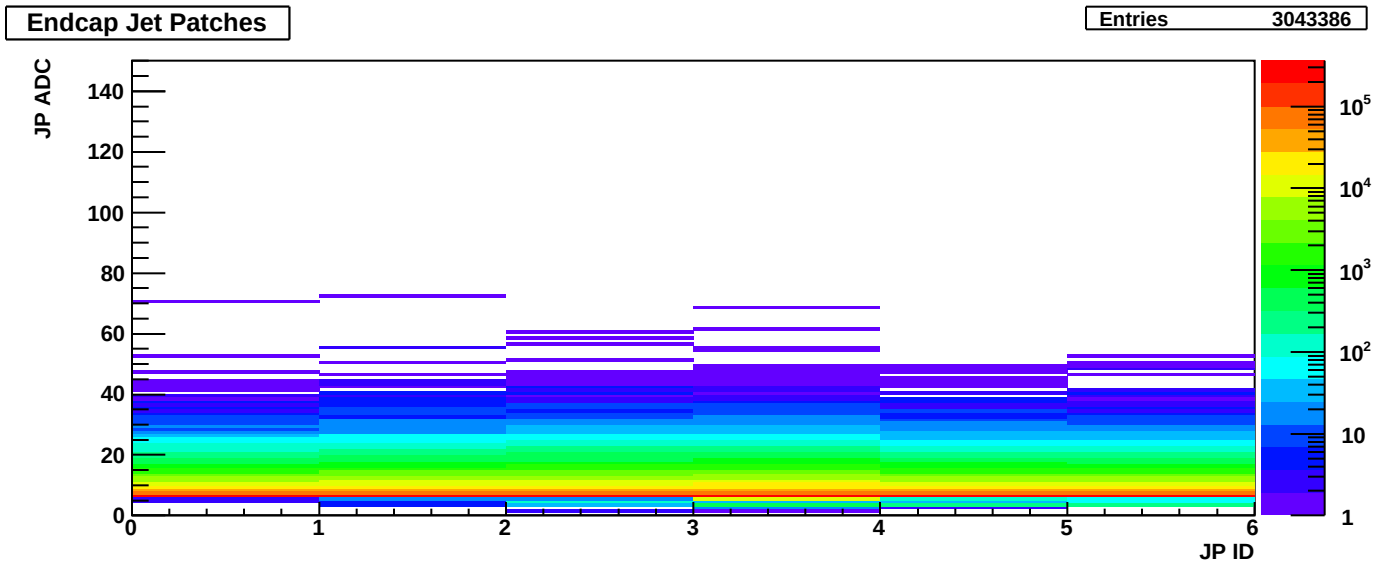

Barrel EMC L0 Input - High Tower
Entries 1.521693e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

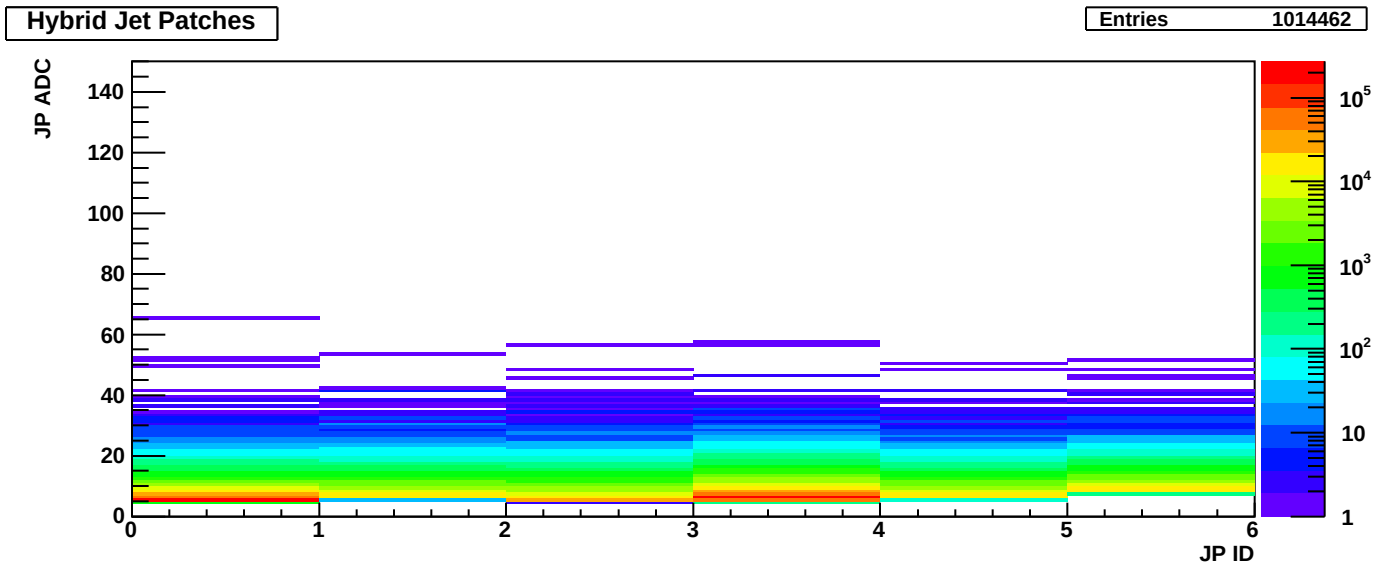

Barrel EMC L0 Input - Patch Sum
Entries 1.521693e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

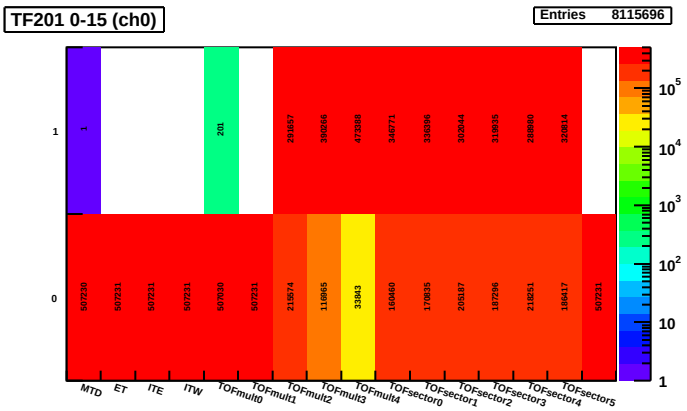

Endcap EMC L0 Input - High Tower
Entries 4.565079e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

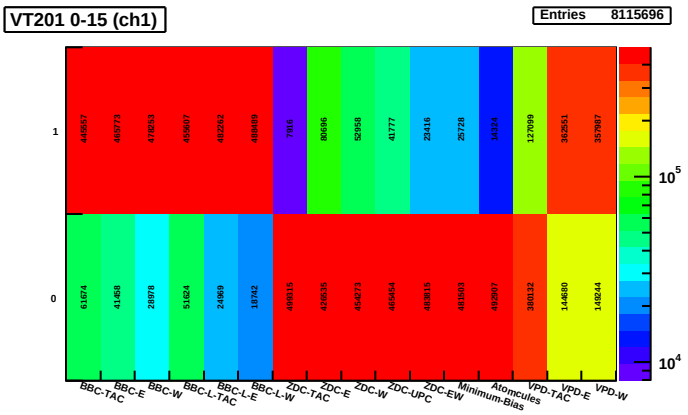

Endcap EMC L0 Input - Patch Sum
Entries 4.565079e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

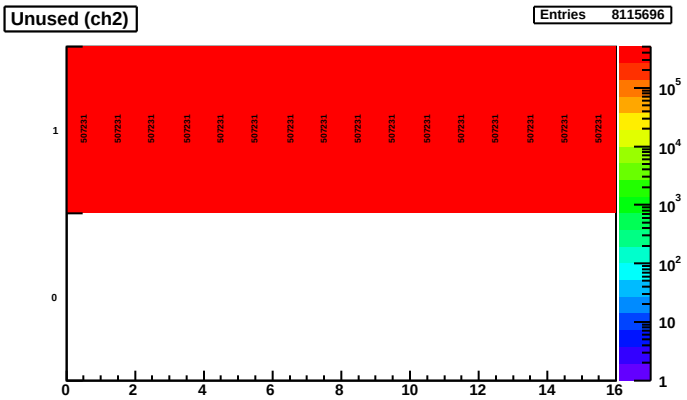

Barrel Jet Patches
Entries 9130158
JP ADC
JP ID

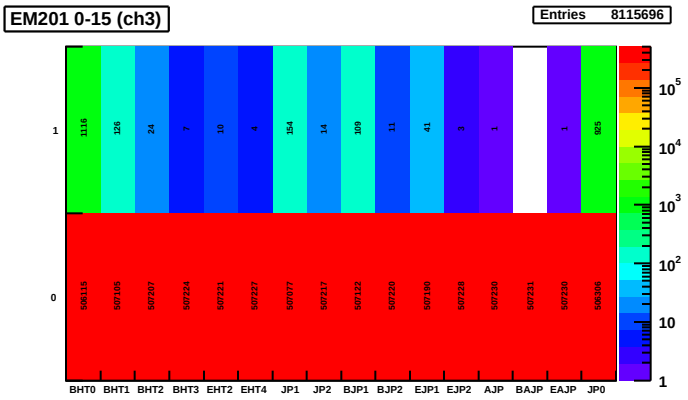

Endcap Jet Patches
Entries 3043386
JP ADC
JP ID

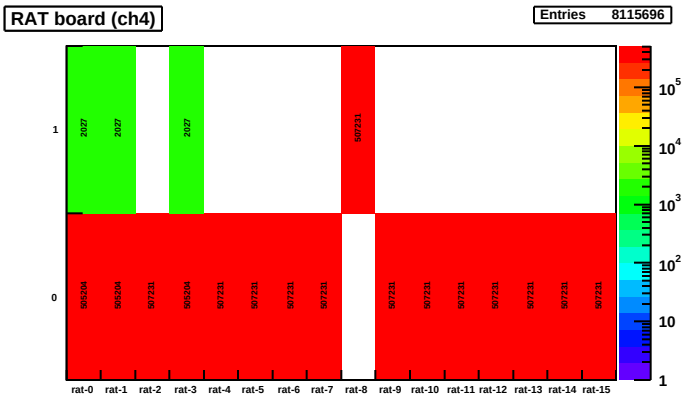

Hybrid Jet Patches
Entries 1014462
JP ADC
JP ID

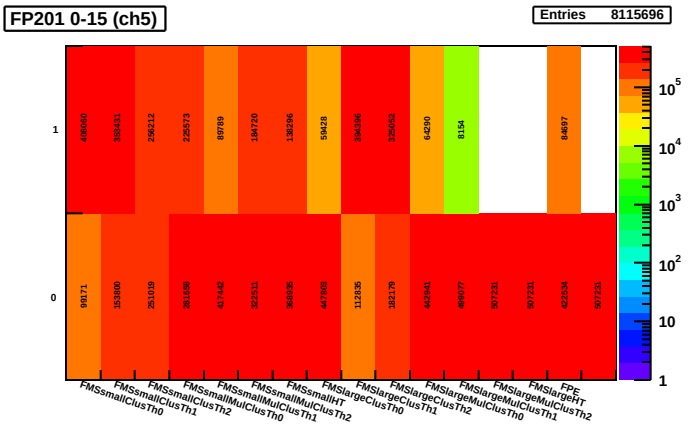

TF201 0-15 (ch0)
Entries 8115696
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

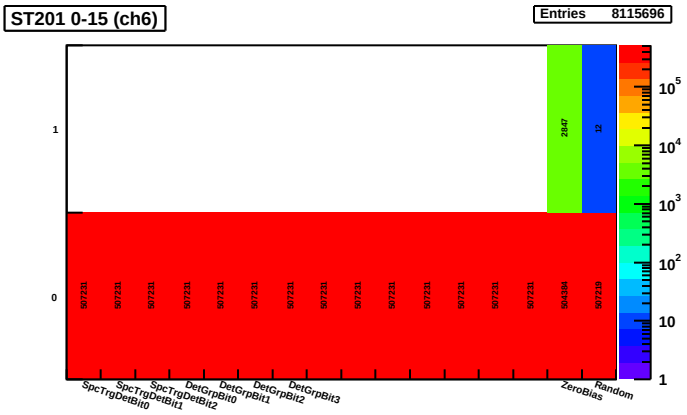

VT201 0-15 (ch1)
Entries 8115696
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

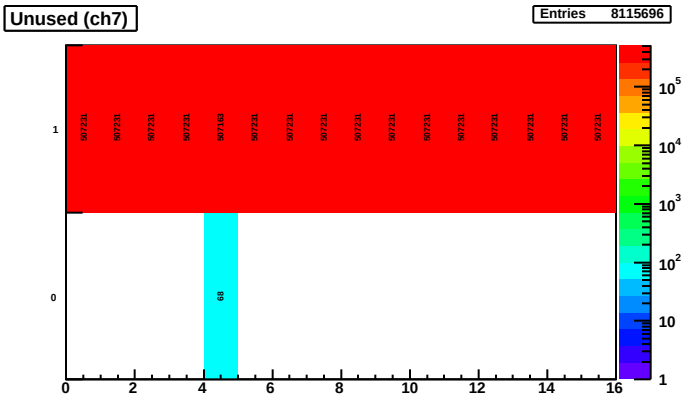

Unused (ch2)
Entries 8115696

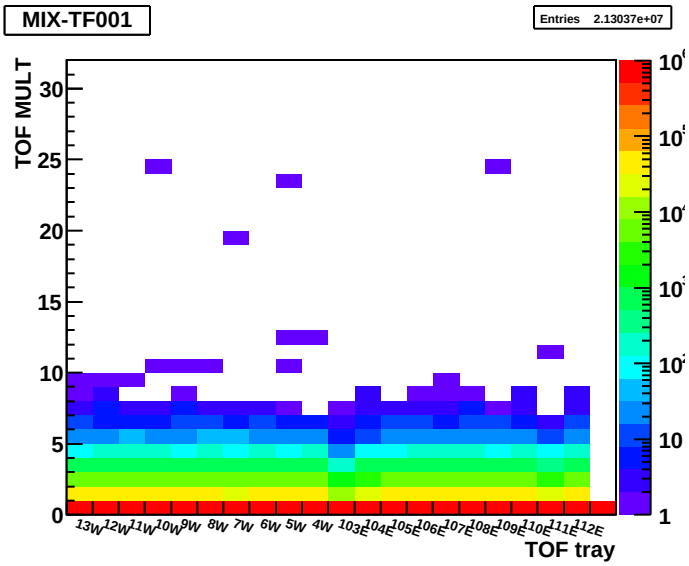

EM201 0-15 (ch3)
Entries 8115696
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

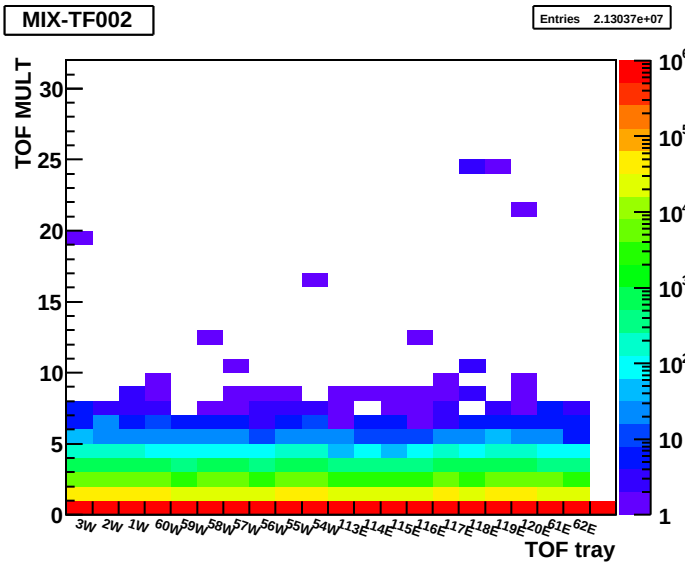

RAT board (ch4)
Entries 8115696
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

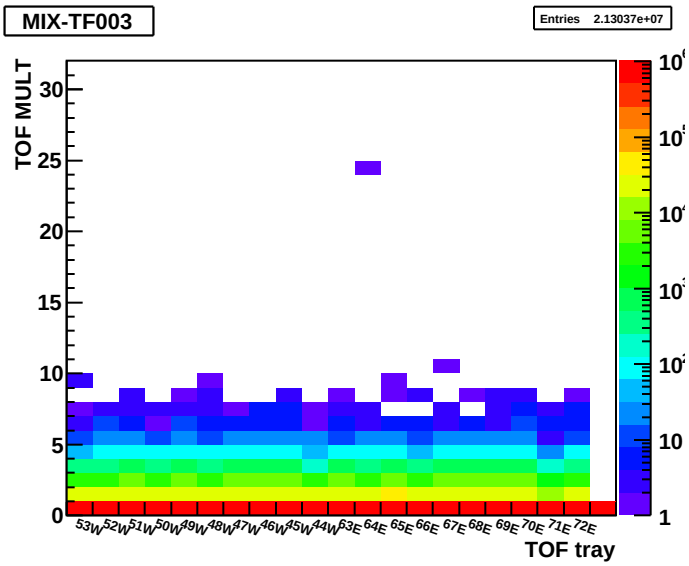

FP201 0-15 (ch5)
Entries 8115696
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

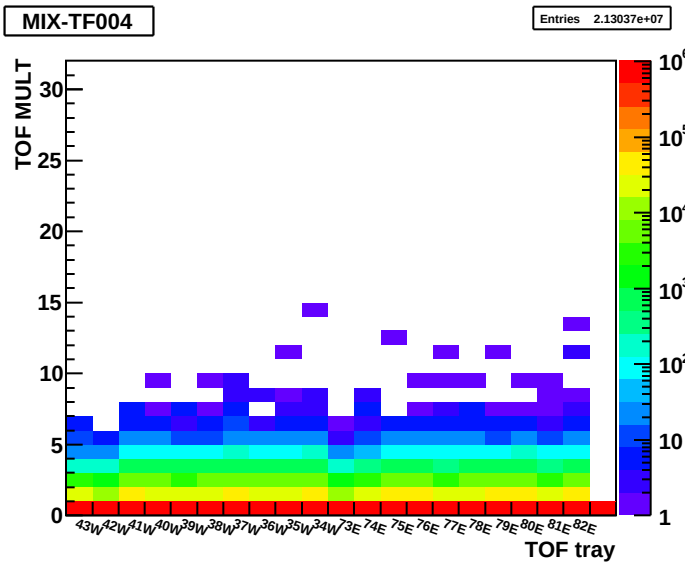

ST201 0-15 (ch6)
Entries 8115696
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random

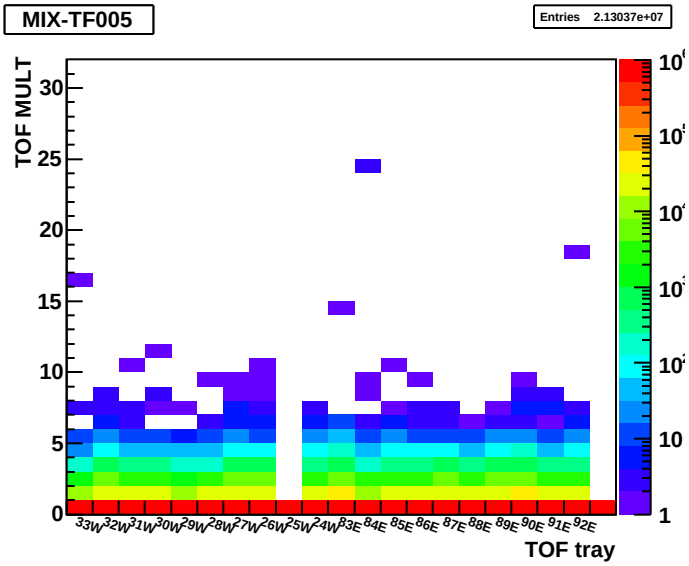

Unused (ch7)
Entries 8115696

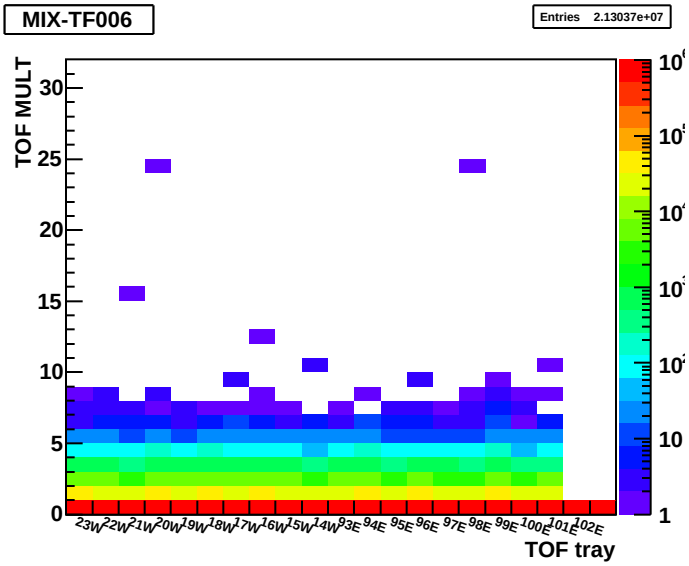

MIX-TF001
Entries 2.13037e+07
TOF MULT
TOF tray

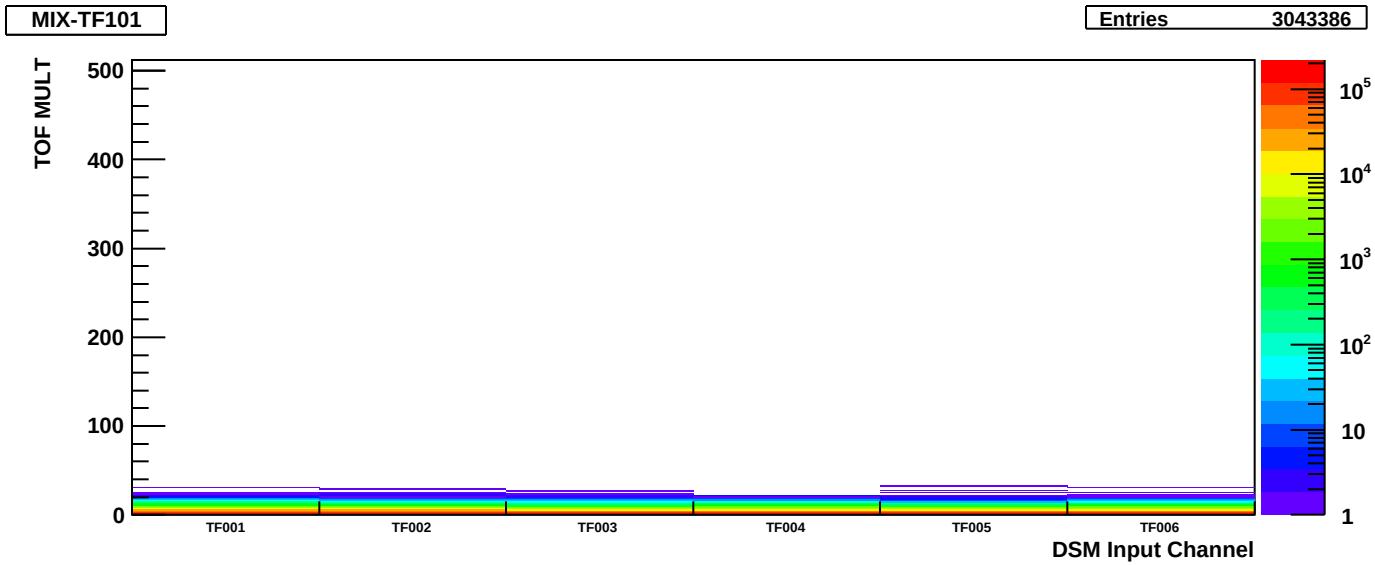

MIX-TF002
Entries 2.13037e+07
TOF MULT
TOF tray

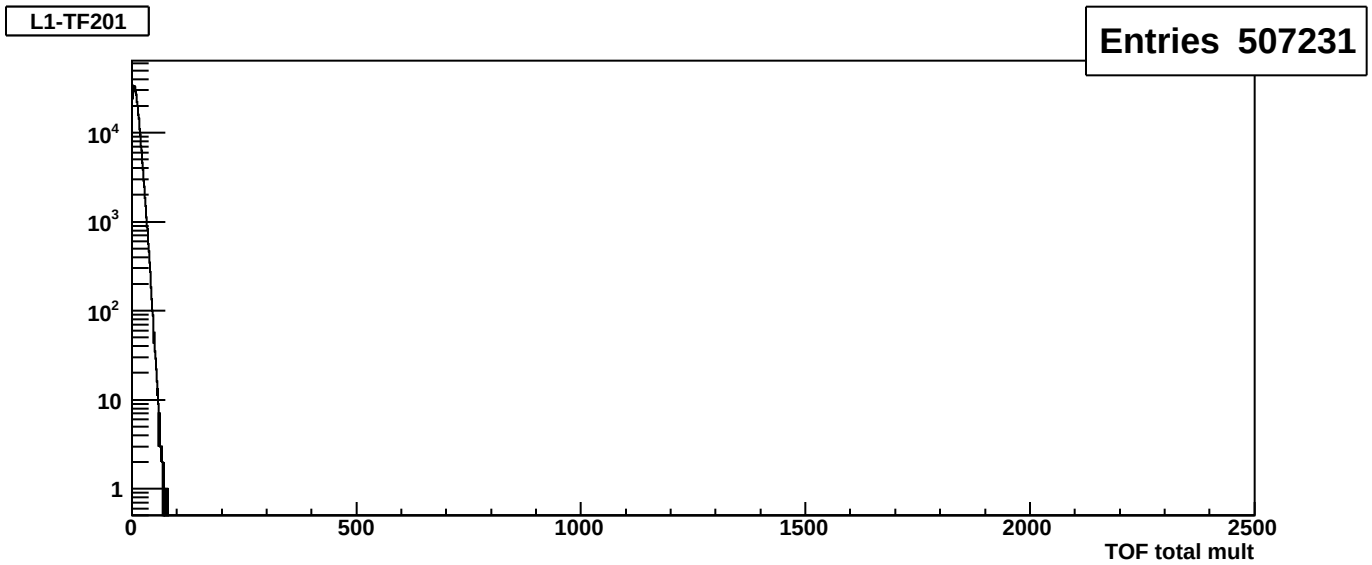

MIX-TF003
Entries 2.13037e+07
TOF MULT
TOF tray

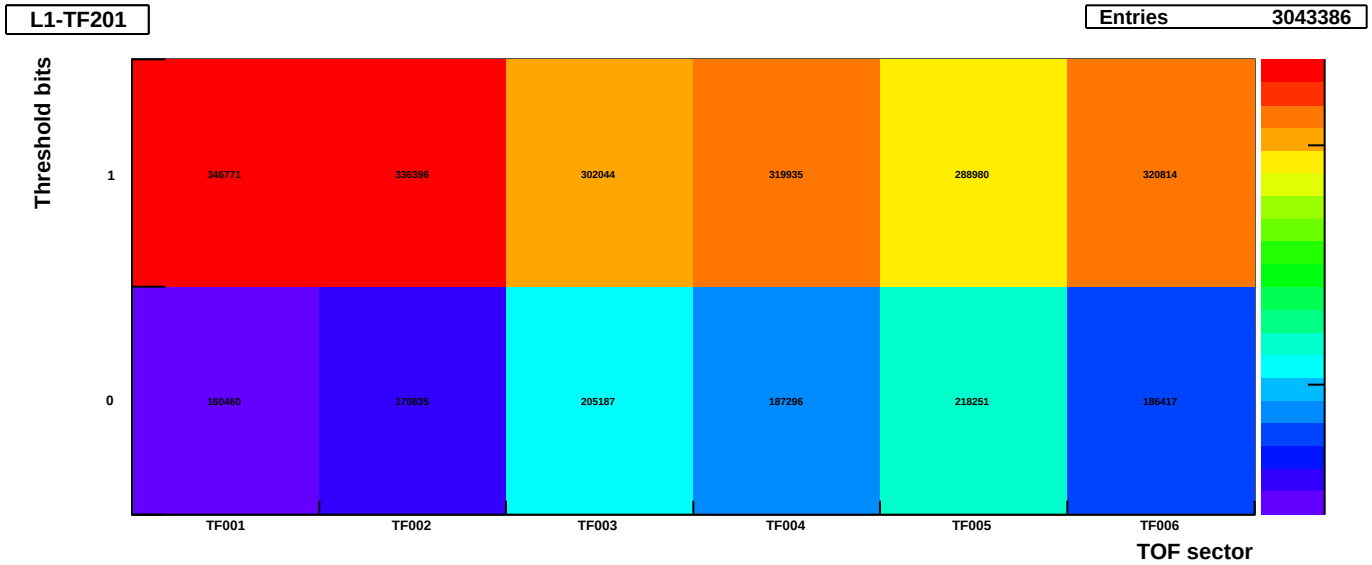

MIX-TF004
Entries 2.13037e+07
TOF MULT
TOF tray

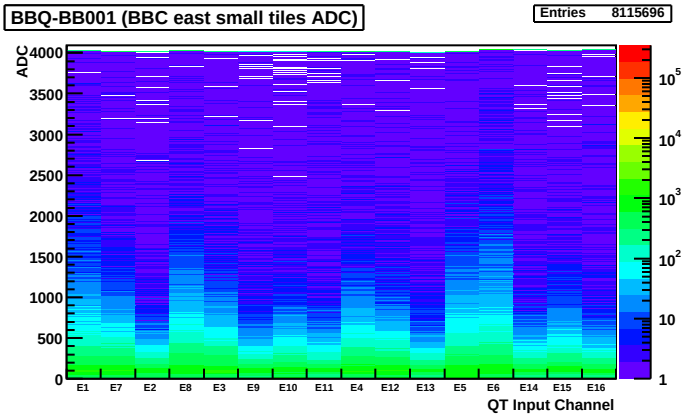

MIX-TF005
Entries 2.13037e+07
TOF MULT
TOF tray

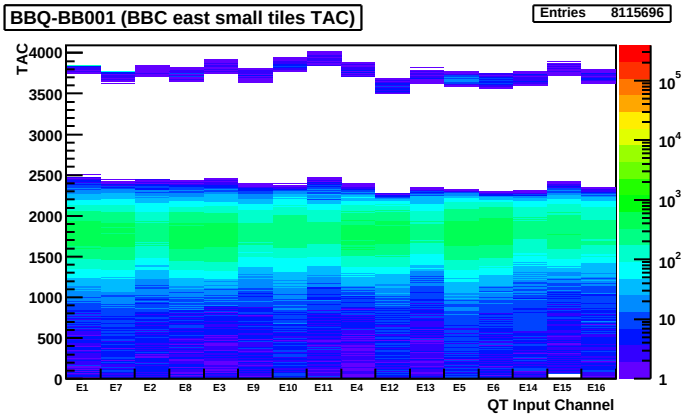

MIX-TF006
Entries 2.13037e+07
TOF MULT
TOF tray

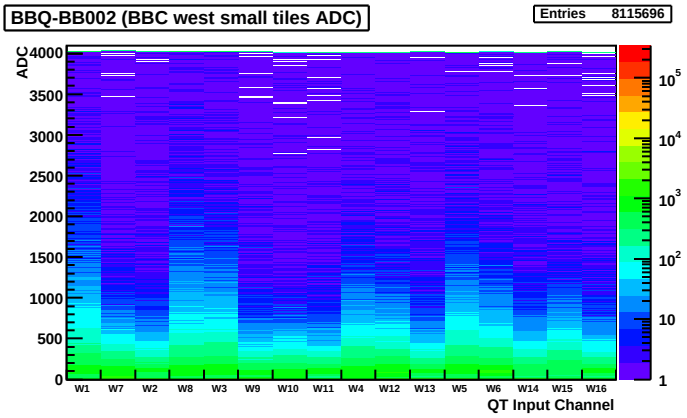

MIX-TF101
Entries 3043386
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

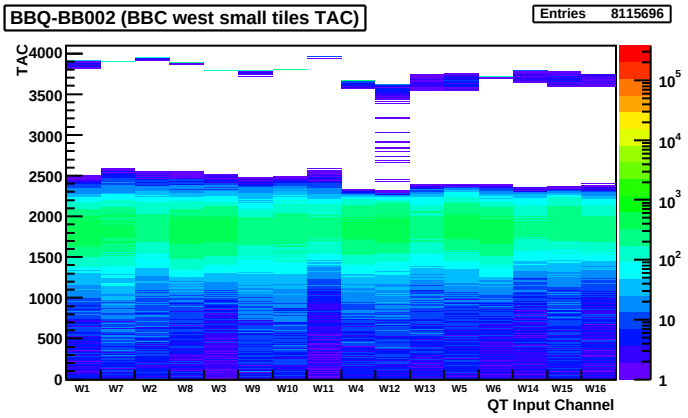

L1-TF201
Entries 507231
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

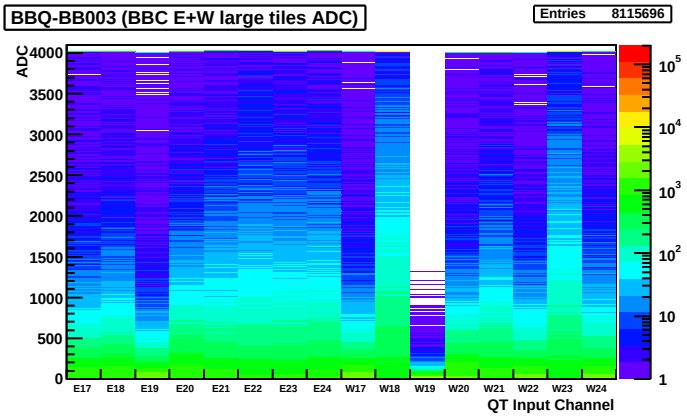

L1-TF201
Entries 3043386
Threshold bits
1
0
346771
336396
302044
319935
288980
320814
160460
170835
205187
187296
218251
186417
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

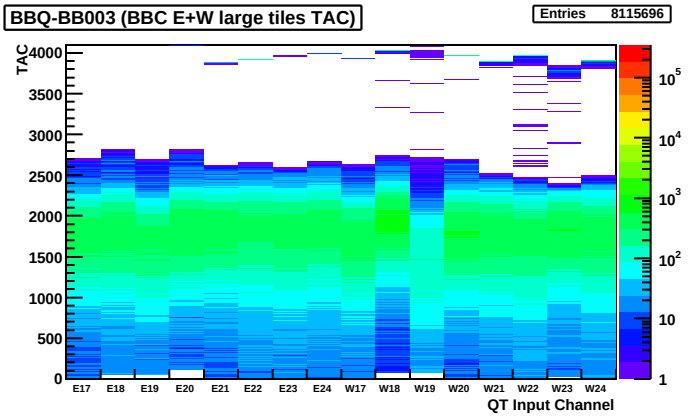

BBQ-BB001 (BBC east small tiles ADC)
Entries 8115696
ADC
QT Input Channel

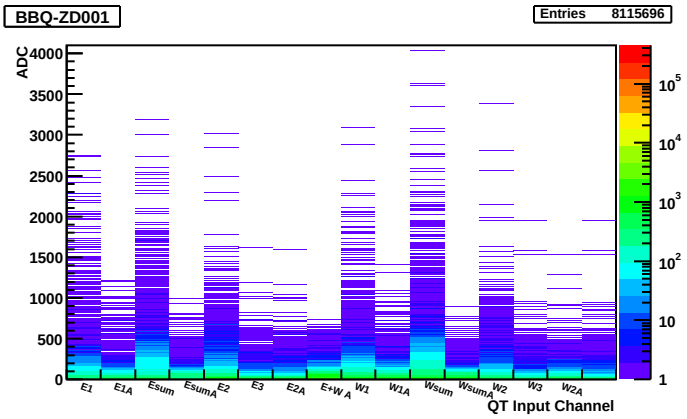

BBQ-BB001 (BBC east small tiles TAC)
Entries 8115696
TAC
QT Input Channel

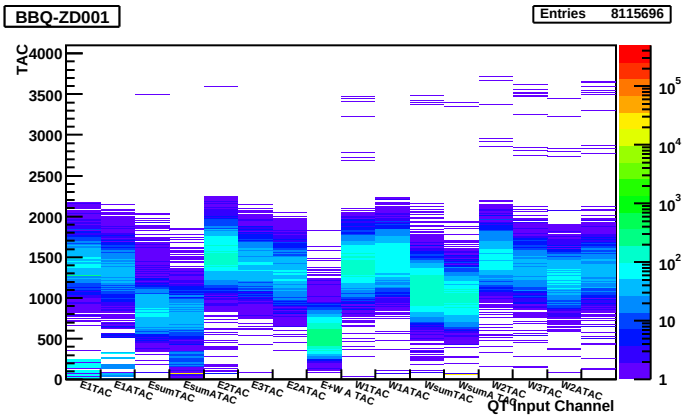

BBQ-BB002 (BBC west small tiles ADC)
Entries 8115696
ADC
QT Input Channel

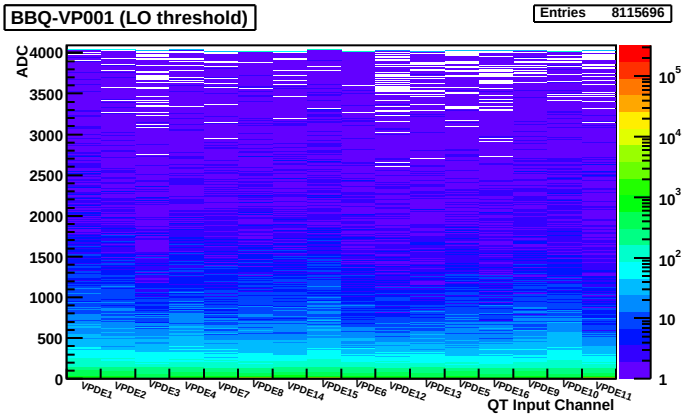

BBQ-BB002 (BBC west small tiles TAC)
Entries 8115696
TAC
QT Input Channel

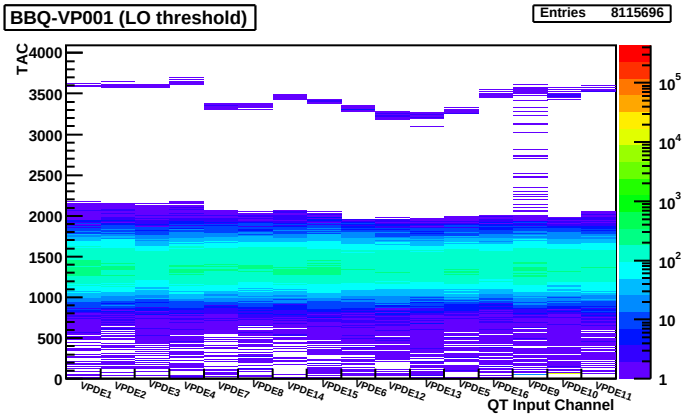

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8115696
ADC
QT Input Channel

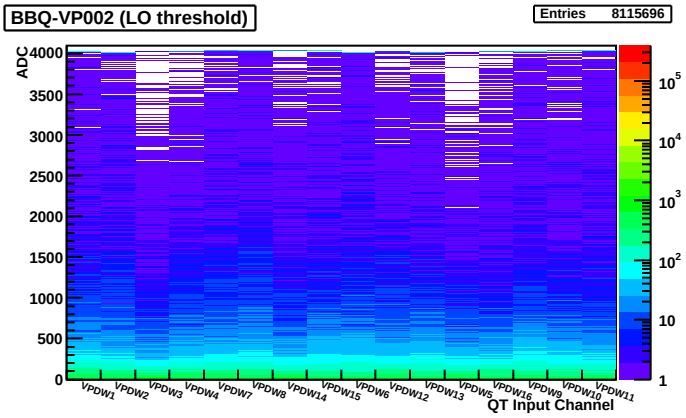

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8115696
TAC
QT Input Channel

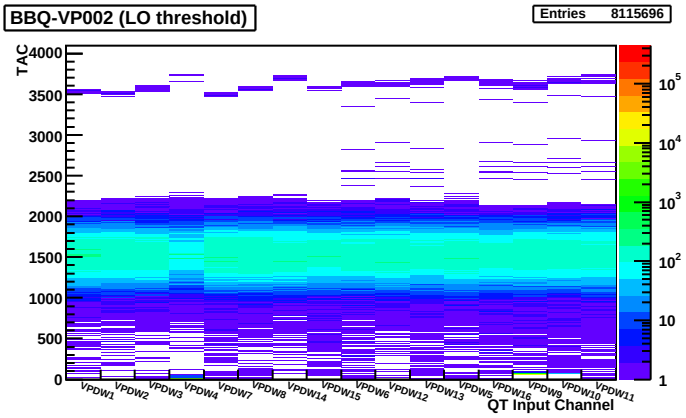

BBQ-ZD001
Entries 8115696
ADC
QT Input Channel

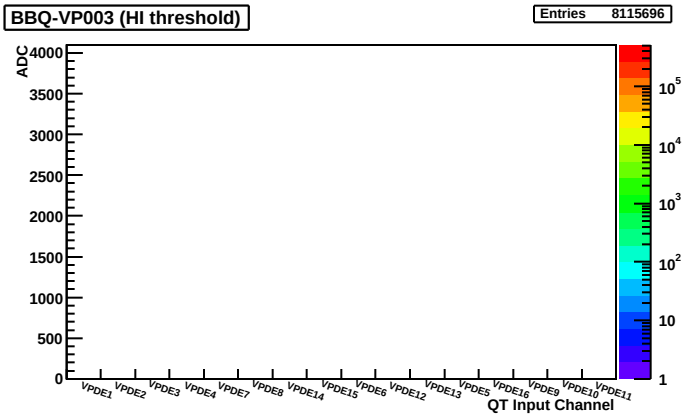

BBQ-ZD001
Entries 8115696
TAC
QT Input Channel

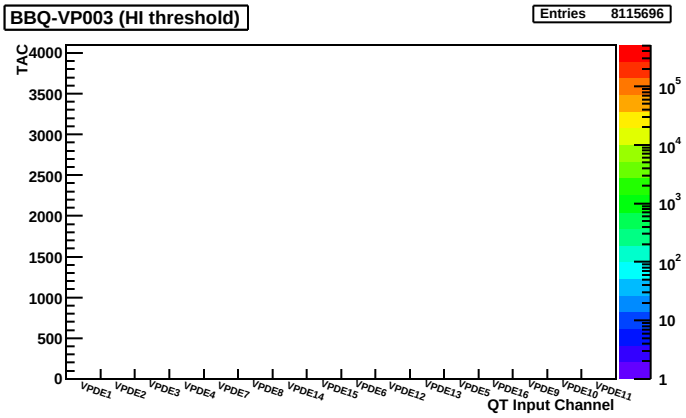

BBQ-VP001 (LO threshold)
Entries 8115696
ADC
QT Input Channel

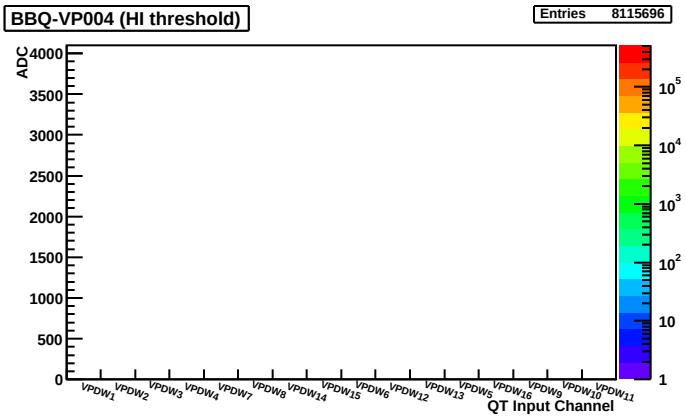

BBQ-VP001 (LO threshold)
Entries 8115696
TAC
QT Input Channel

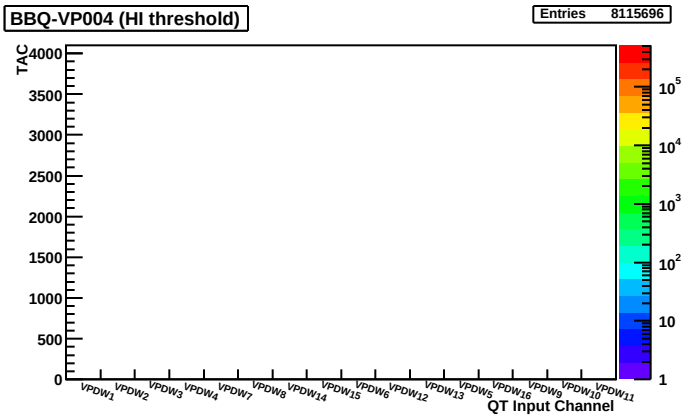

BBQ-VP002 (LO threshold)
Entries 8115696
ADC
QT Input Channel

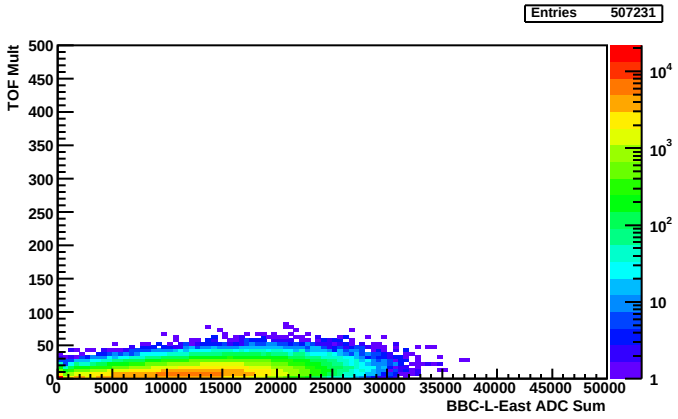

BBQ-VP002 (LO threshold)
Entries 8115696
TAC
QT Input Channel

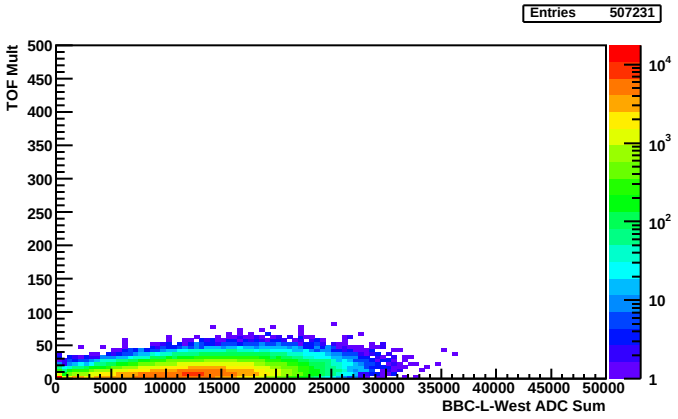

BBQ-VP003 (HI threshold)
Entries 8115696
ADC
QT Input Channel

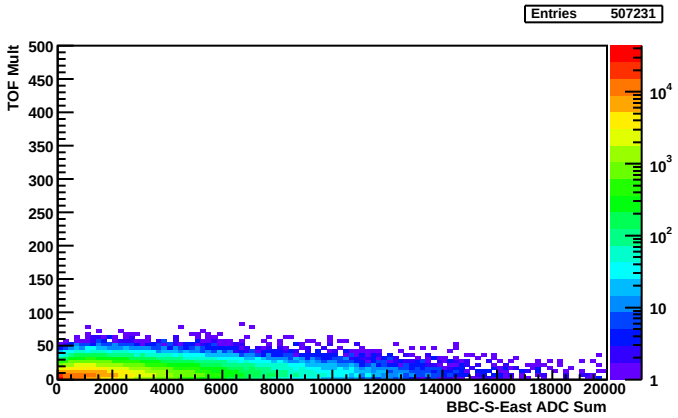

BBQ-VP003 (HI threshold)
Entries 8115696
TAC
QT Input Channel

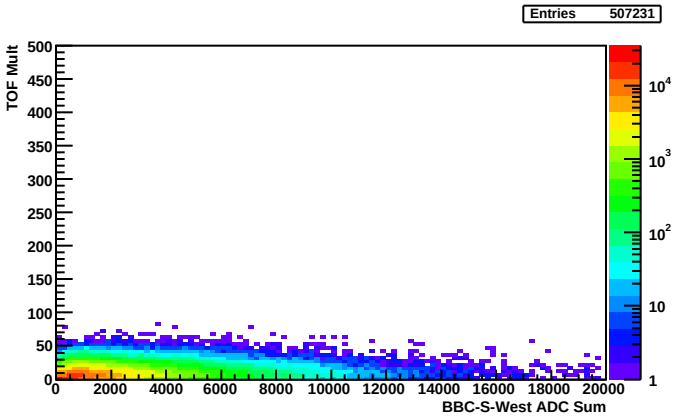

BBQ-VP004 (HI threshold)
Entries 8115696
ADC
QT Input Channel

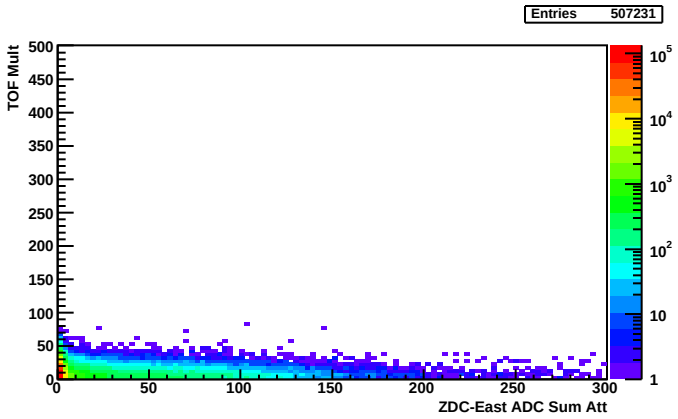

BBQ-VP004 (HI threshold)
Entries 8115696
TAC
QT Input Channel

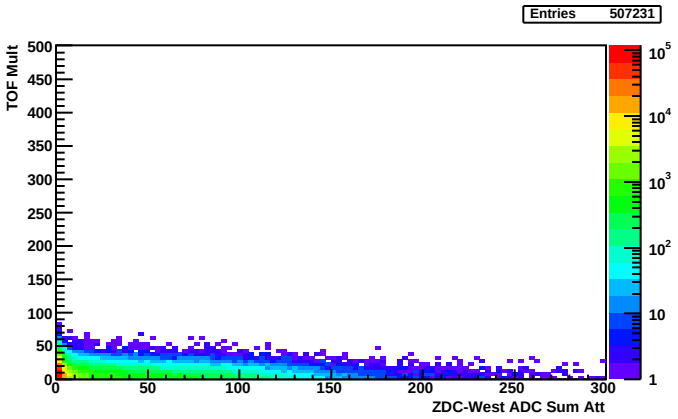

Entries 507231
TOF Mult
BBC-L-East ADC Sum

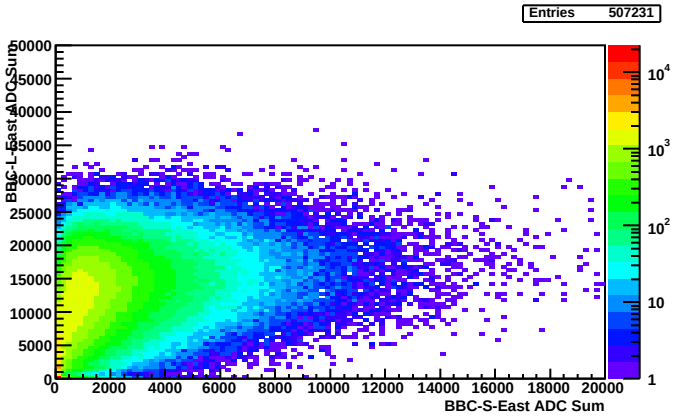

Entries 507231
TOF Mult
BBC-L-West ADC Sum

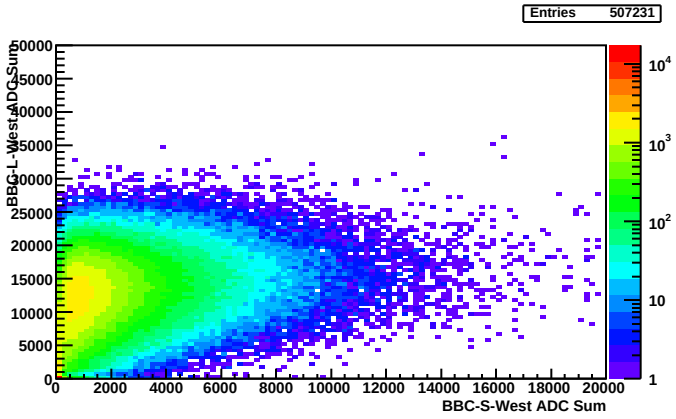

Entries 507231
TOF Mult
BBC-S-East ADC Sum

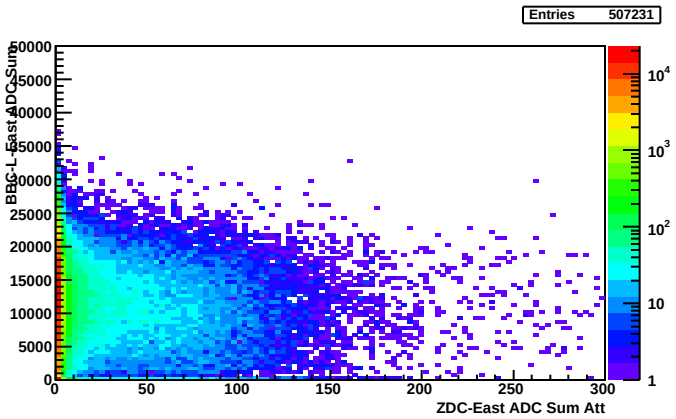

Entries 507231
TOF Mult
BBC-S-West ADC Sum

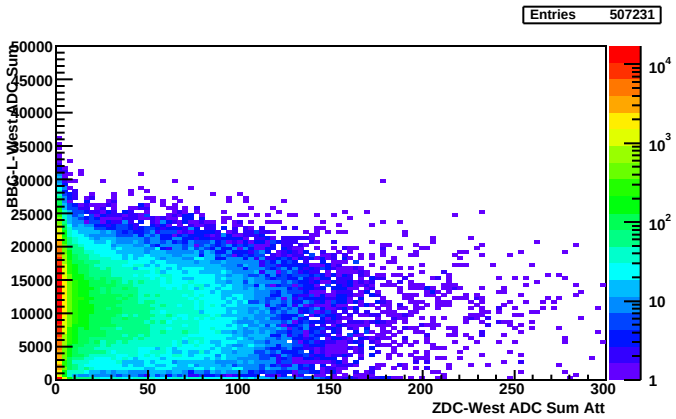

Entries 507231
TOF Mult
ZDC-East ADC Sum Att

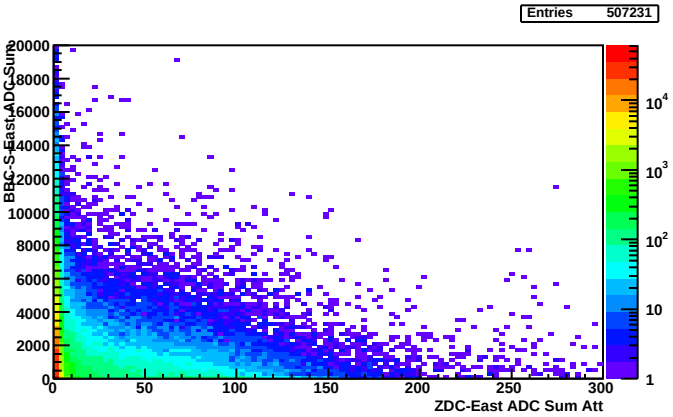

Entries 507231
TOF Mult
ZDC-West ADC Sum Att

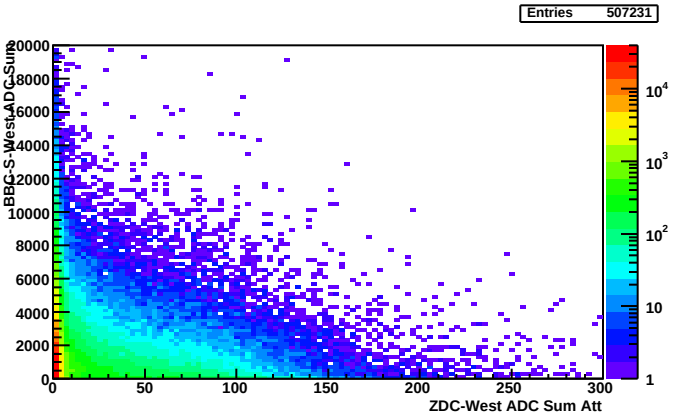

Entries 507231
BBC-L-East ADC Sum
BBC-S-East ADC Sum

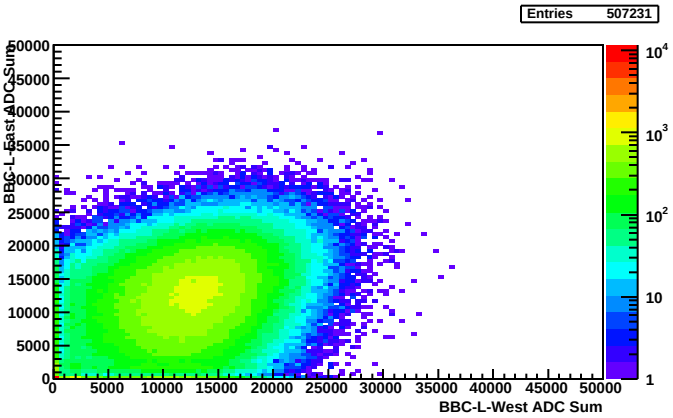

Entries 507231
BBC-L-West ADC Sum
BBC-S-West ADC Sum

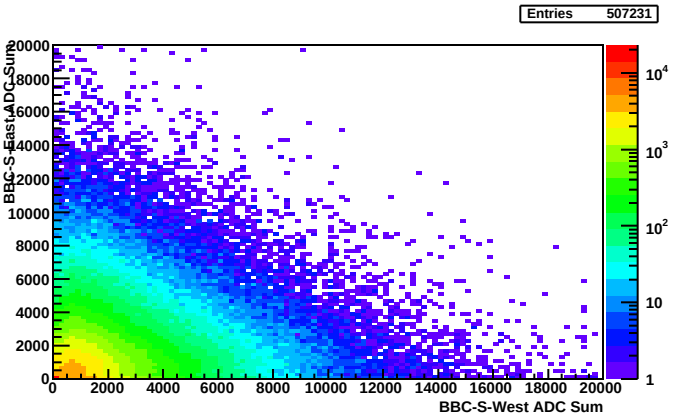

Entries 507231
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

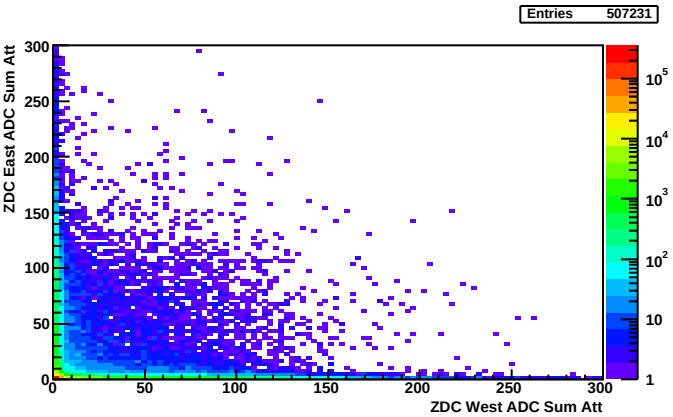

Entries 507231
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

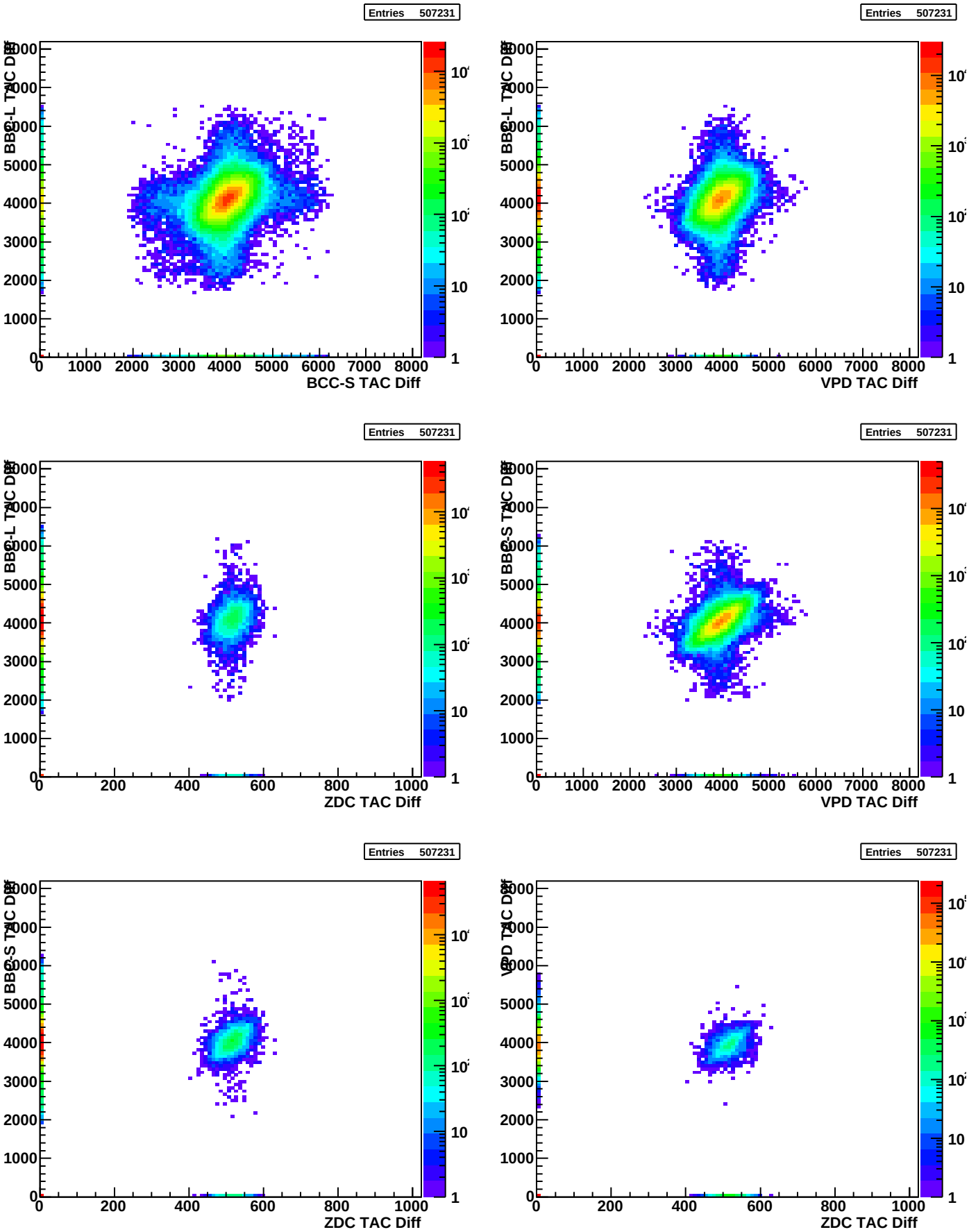

Entries 507231
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

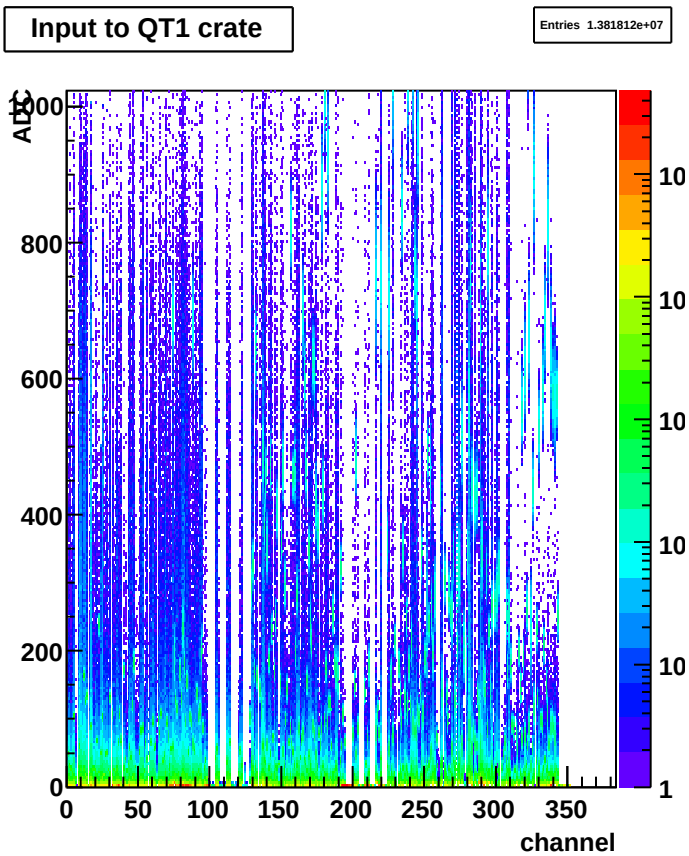

Entries 507231
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

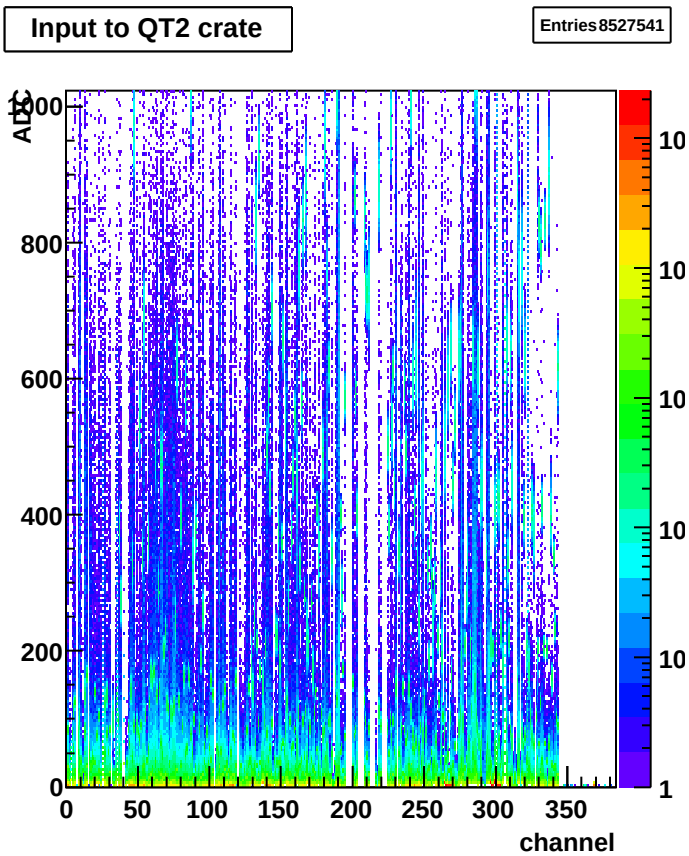

Entries 507231
BBC-L-East ADC Sum
BBC-L-West ADC Sum

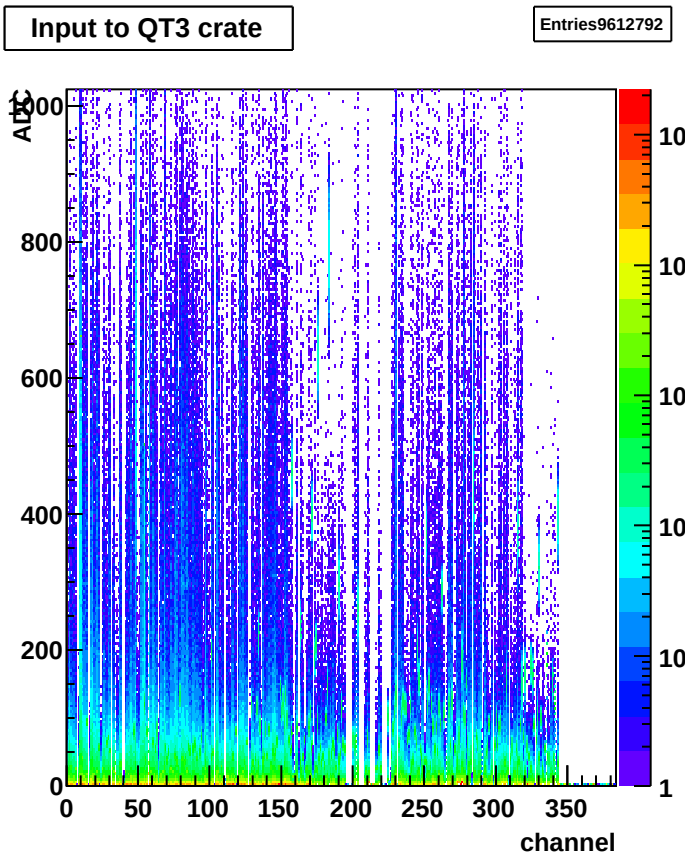

Entries 507231
BBC-S-East ADC Sum
BBC-S-West ADC Sum

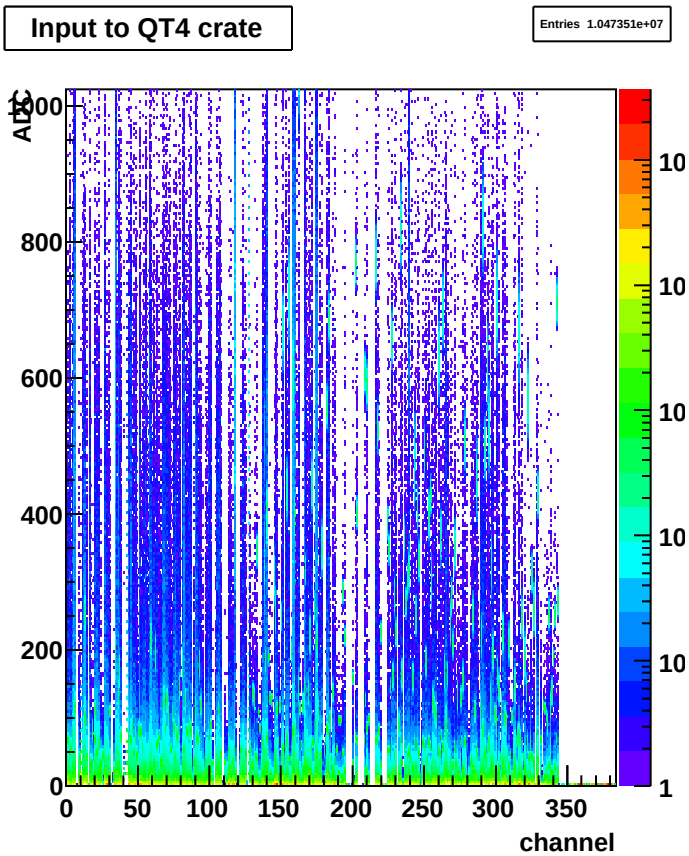

Entries 507231
ZDC East ADC Sum Att
ZDC West ADC Sum Att

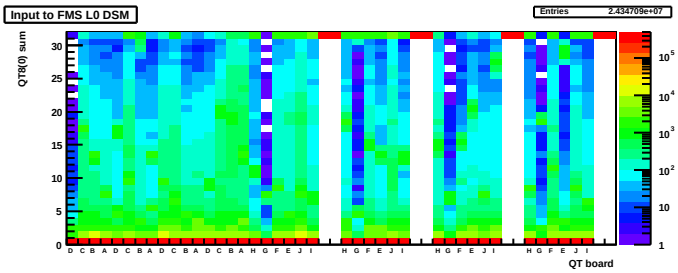

Entries 507231
BBC-L TAC Diff
BCC-S TAC Diff
Entries 507231
BBC-L TAC Diff
VPD TAC Diff
Entries 507231
BBC-L TAC Diff
ZDC TAC Diff
Entries 507231
BBC-S TAC Diff
VPD TAC Diff
Entries 507231
BBC-S TAC Diff
ZDC TAC Diff
Entries 507231
VPD TAC Diff
ZDC TAC Diff

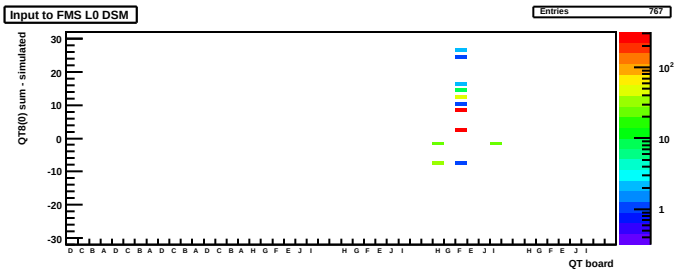

Input to QT1 crate
Entries 1.381812e+07
ADC
channel

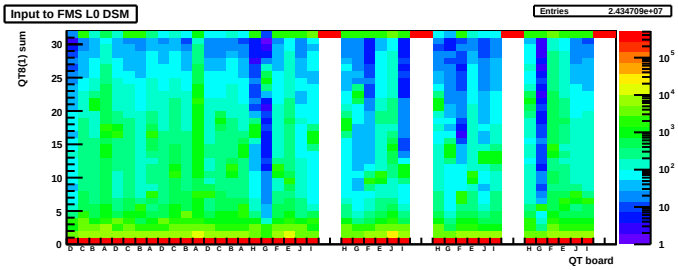

Input to QT2 crate
Entries 8527541
ADC
channel

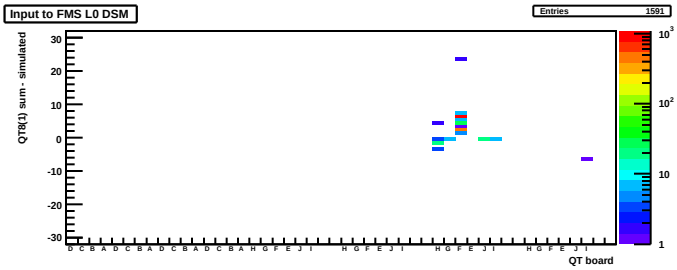

Input to QT3 crate
Entries 9612792
ADC
channel

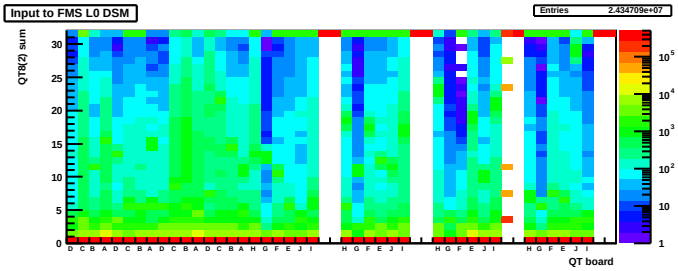

Input to QT4 crate
Entries 1.047351e+07
ADC
channel

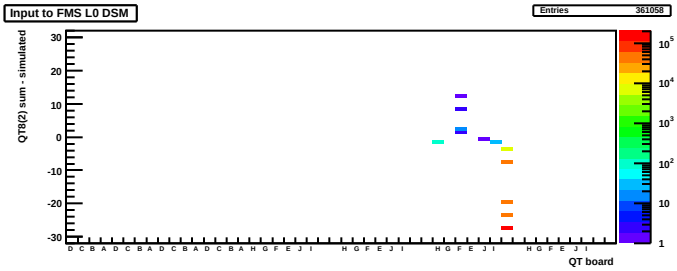

Input to FMS L0 DSM
Entries 2.434709e+07
QT8(0) sum
QT board

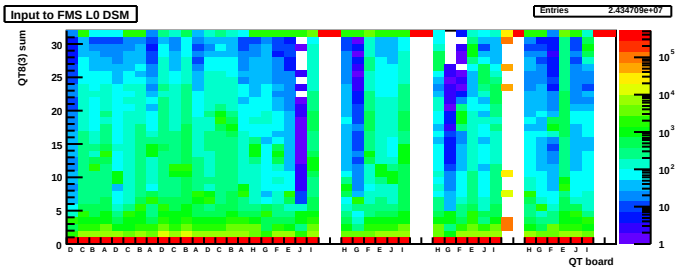

Input to FMS L0 DSM
Entries 767
QT8(0) sum - simulated
QT board

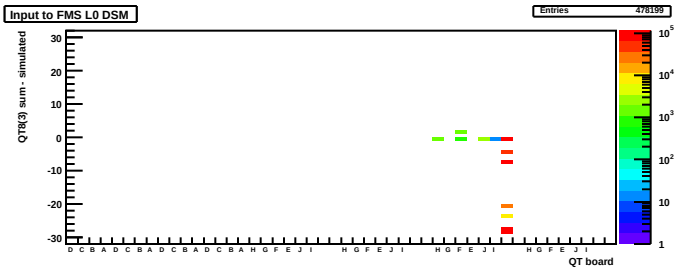

Input to FMS L0 DSM
Entries 2.434709e+07
QT8(1) sum
QT board

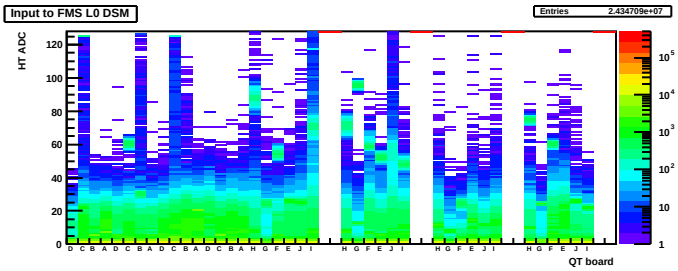

Input to FMS L0 DSM
Entries 1591
QT8(1) sum - simulated
QT board

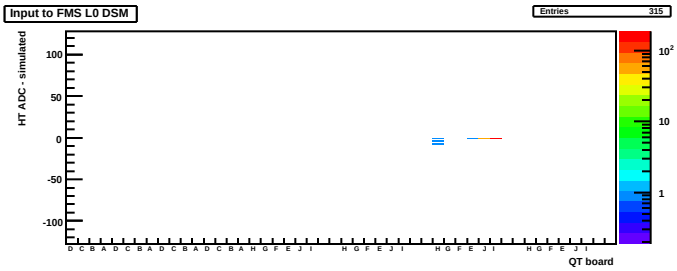

Input to FMS L0 DSM
Entries 2.434709e+07
QT8(2) sum
QT board

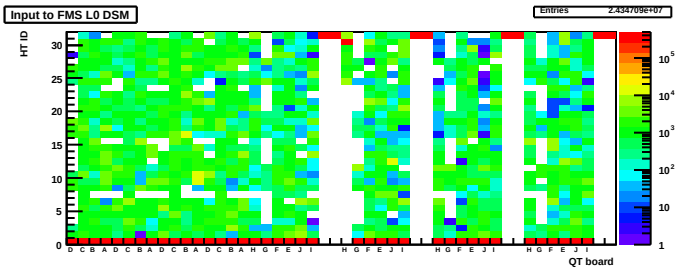

Input to FMS L0 DSM
Entries 361058
QT8(2) sum - simulated
QT board

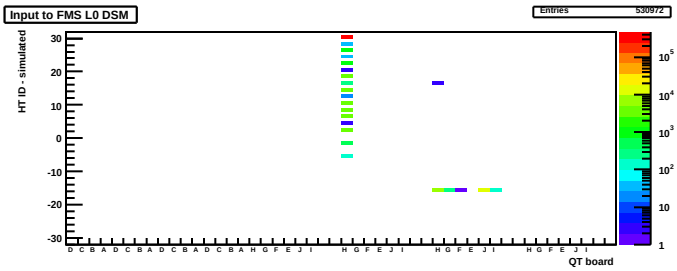

Input to FMS L0 DSM
Entries 2.434709e+07
QT8(3) sum
QT board

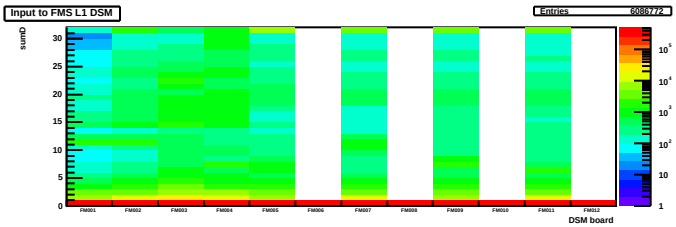

Input to FMS L0 DSM
Entries 478199
QT8(3) sum - simulated
QT board

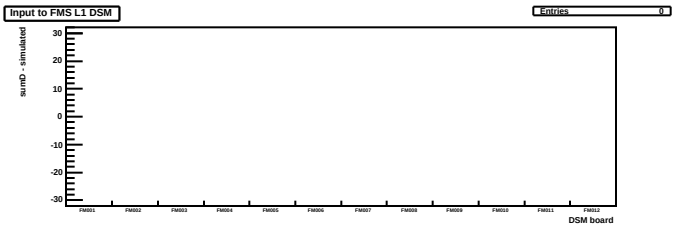

Input to FMS L0 DSM
Entries 2.434709e+07
HT ADC
QT board

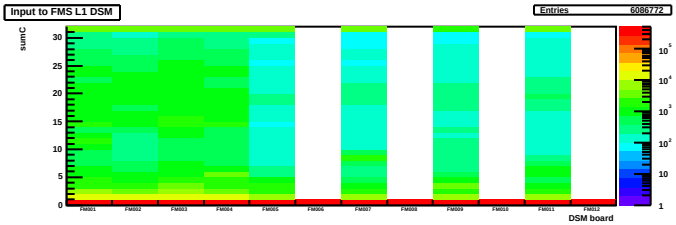

Input to FMS L0 DSM
Entries 315
HT ADC - simulated
QT board

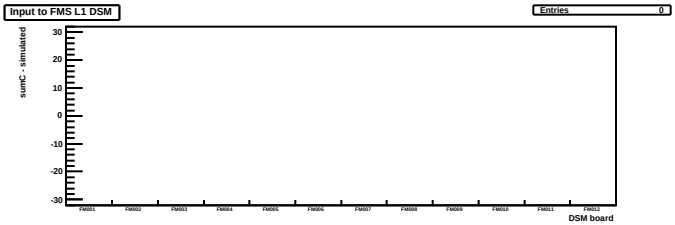

Input to FMS L0 DSM
Entries 2.434709e+07
HT ID
QT board

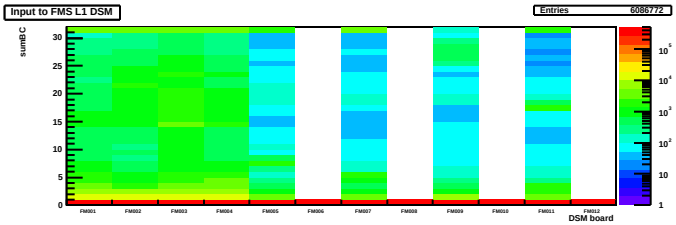

Input to FMS L0 DSM
Entries 530972
HT ID - simulated
QT board

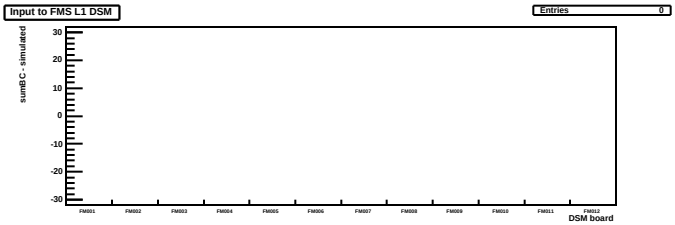

Input to FMS L1 DSM
Entries 6086772
sumD
DSM board

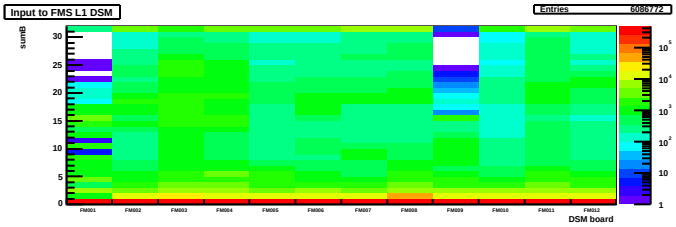

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

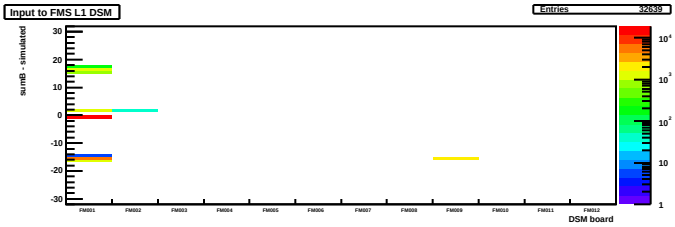

Input to FMS L1 DSM
Entries 6086772
sumC
DSM board

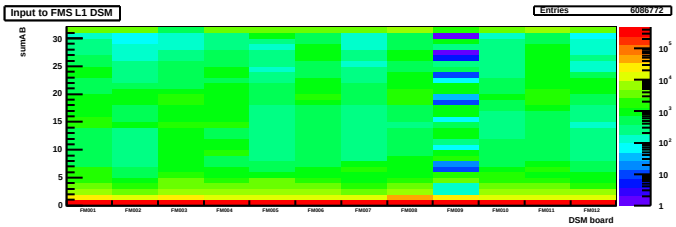

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

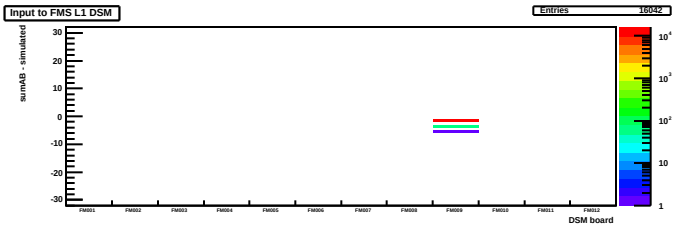

Input to FMS L1 DSM
Entries 6086772
sumBC
DSM board

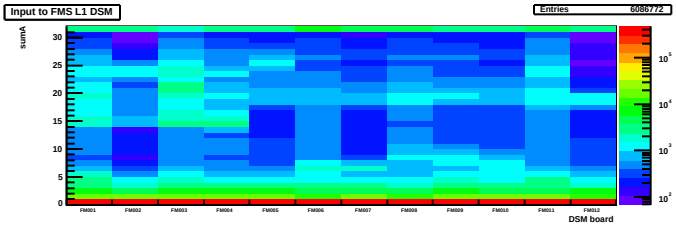

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

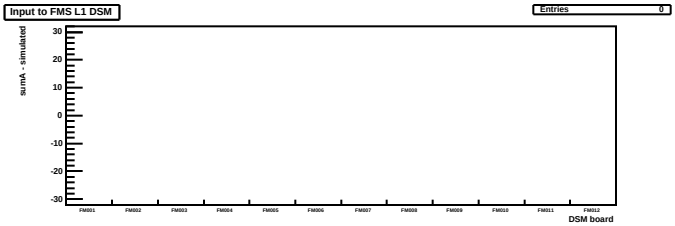

Input to FMS L1 DSM
Entries 6086772
sumB
DSM board

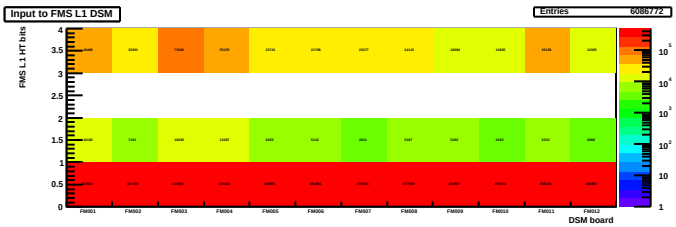

Input to FMS L1 DSM
Entries 32639
sumB - simulated
DSM board

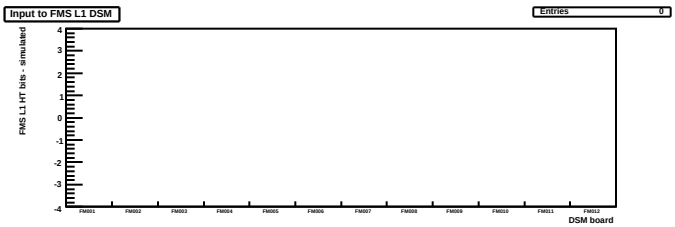

Input to FMS L1 DSM
Entries 6086772
sumAB
DSM board

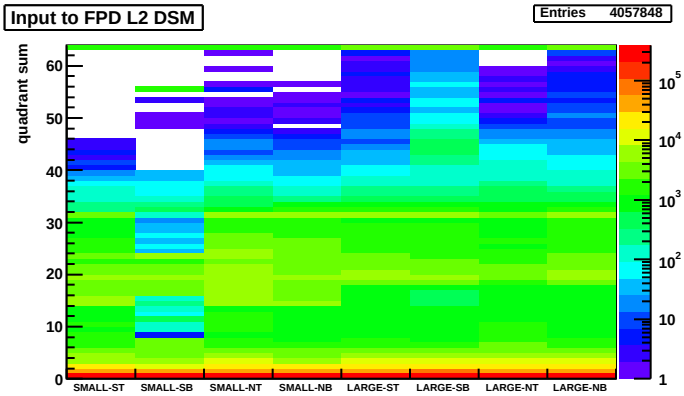

Input to FMS L1 DSM
Entries 16042
sumAB - simulated
DSM board

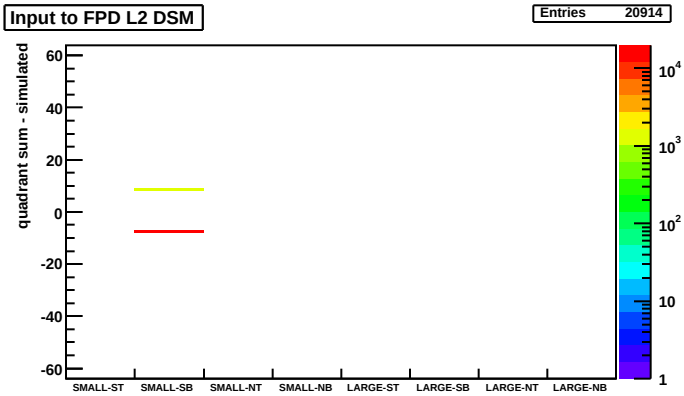

Input to FMS L1 DSM
Entries 6086772
sumA
DSM board

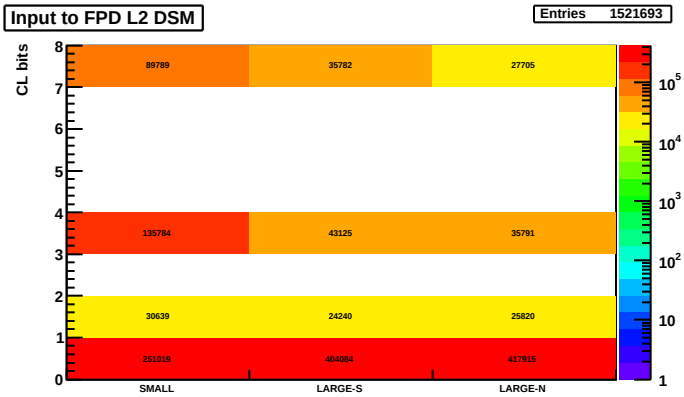

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

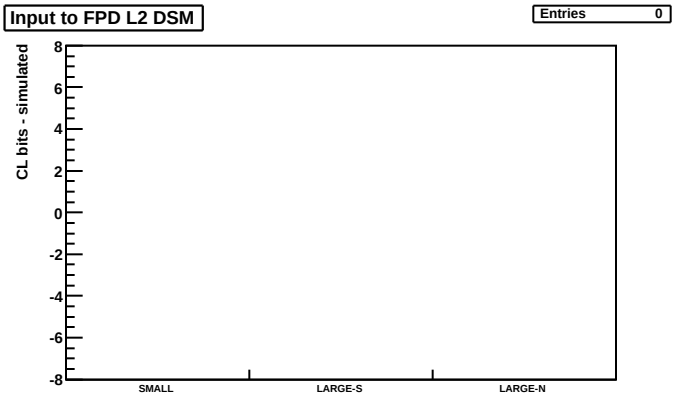

Input to FMS L1 DSM
Entries 6086772
FMS L1 HT bits
DSM board

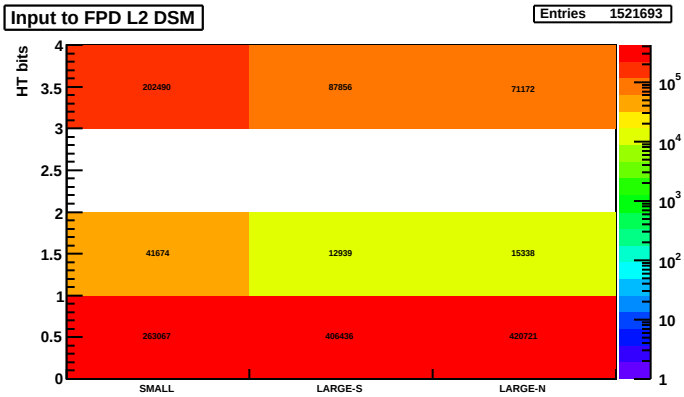

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

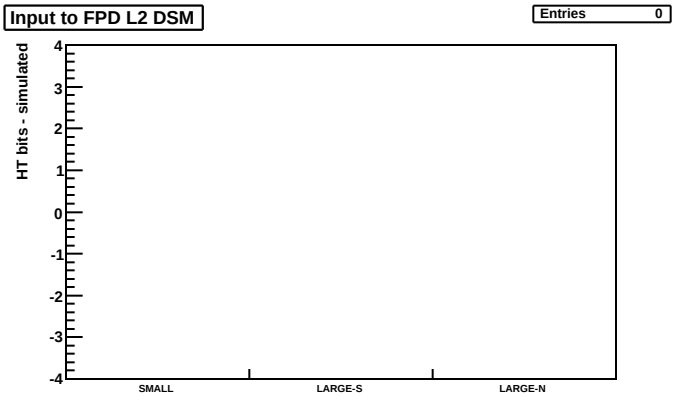

Input to FPD L2 DSM
Entries 4057848
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

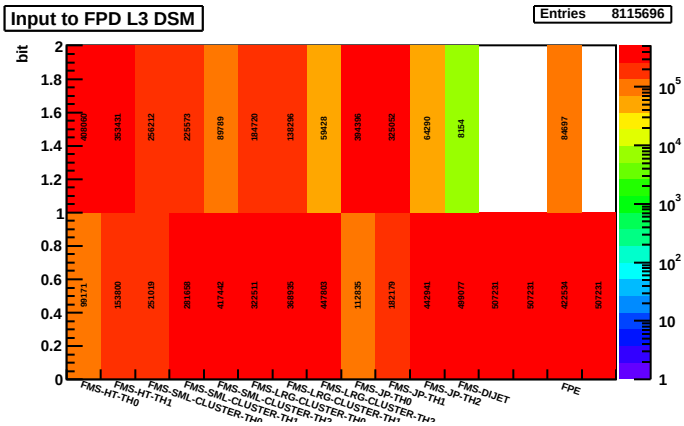

Input to FPD L2 DSM
Entries 20914
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

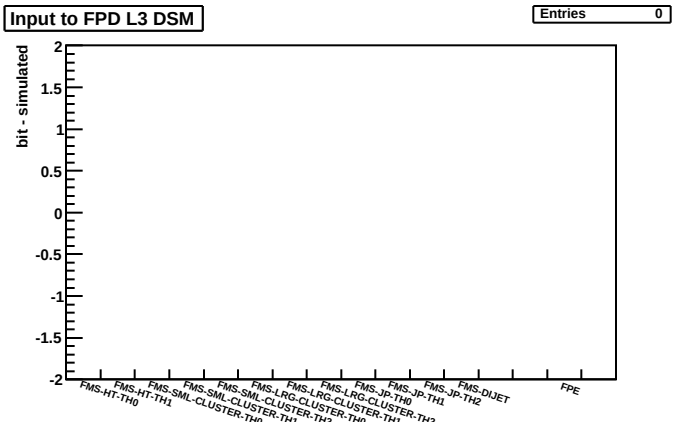

Input to FPD L2 DSM
Entries 1521693
CL bits
89789
35782
27705
135784
43125
35791
30639
24240
25820
251019
404084
417915
SMALL
LARGE-S
LARGE-N

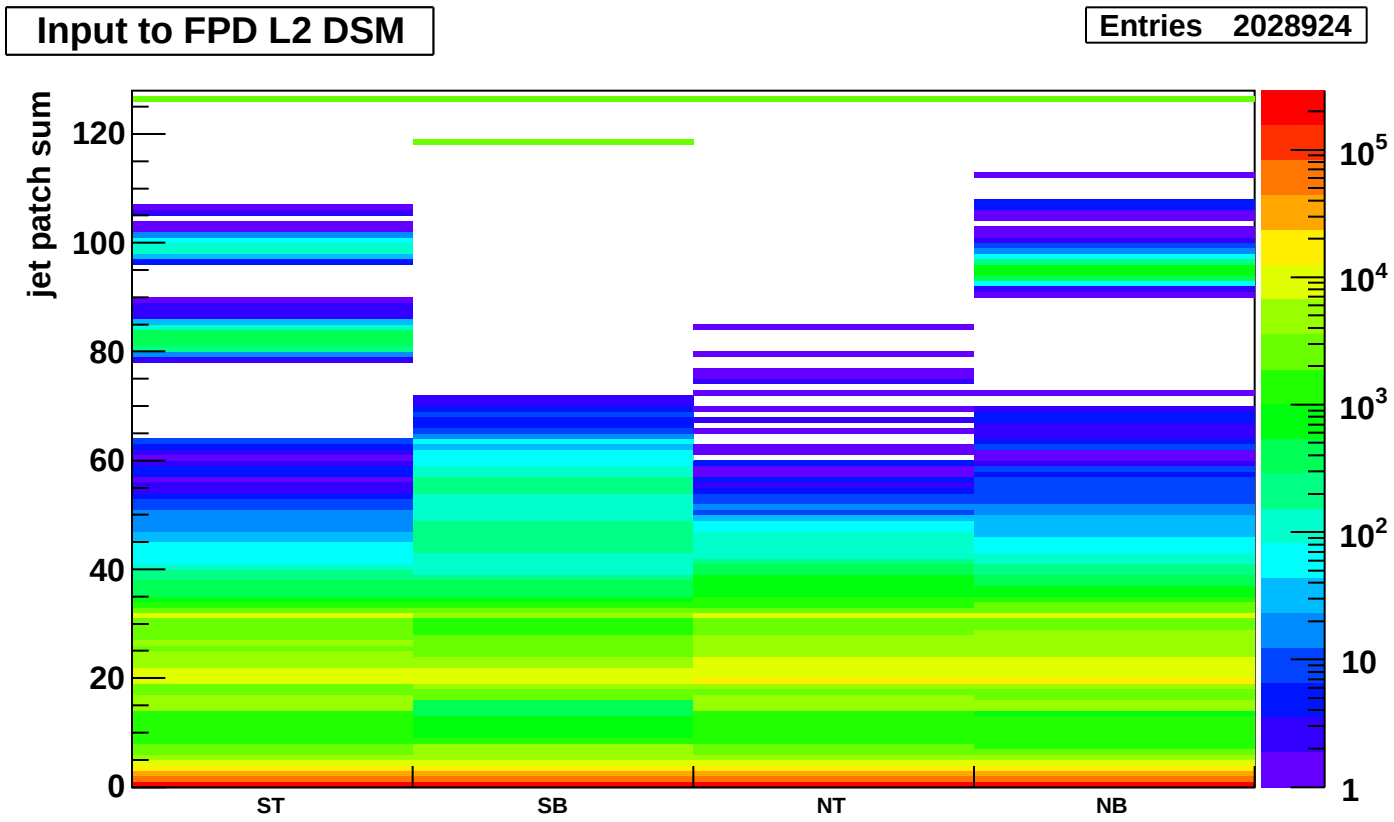

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

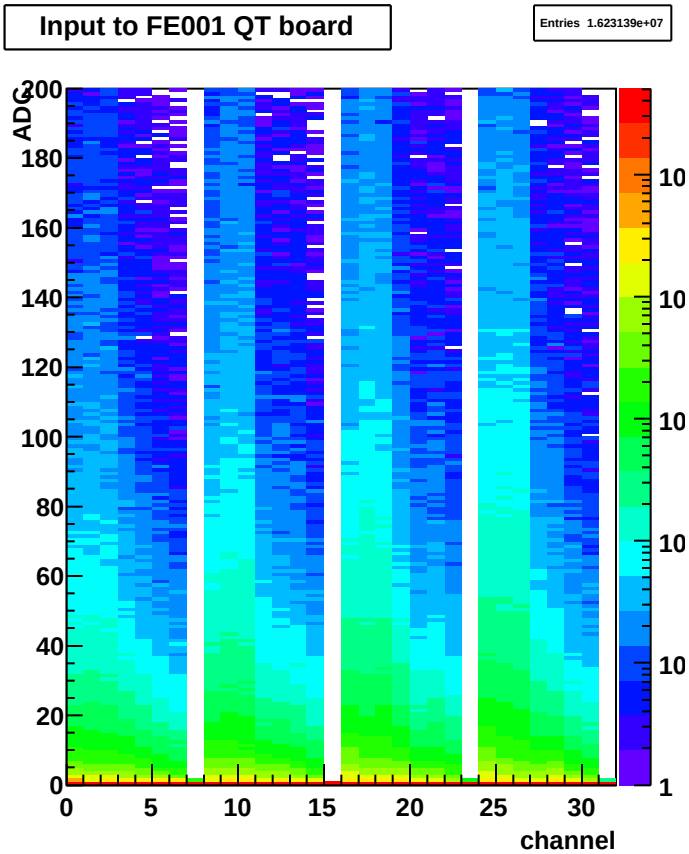

Input to FPD L2 DSM
Entries 1521693
HT bits
202490
87856
71172
41674
12939
15338
263067
406436
420721
SMALL
LARGE-S
LARGE-N

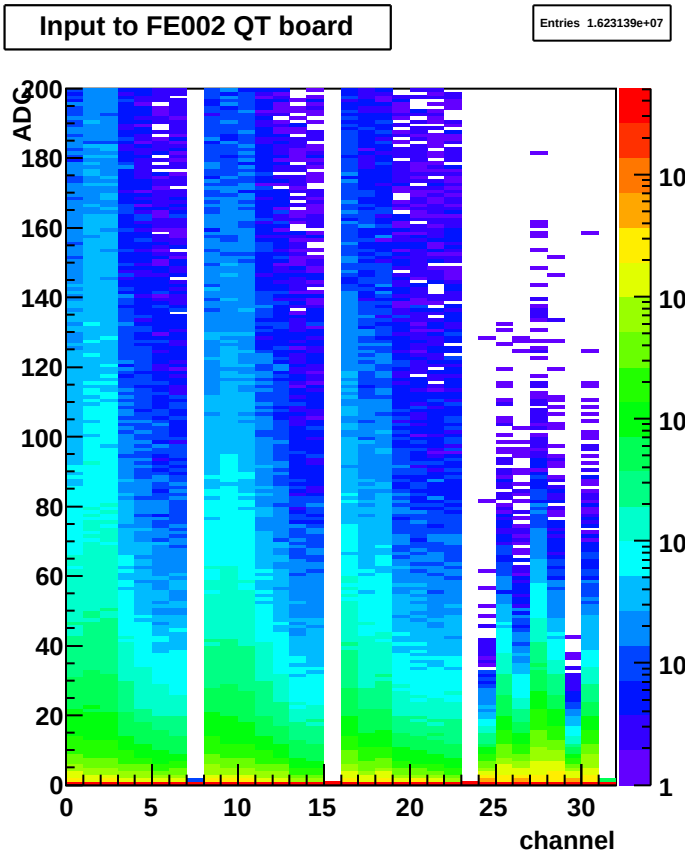

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

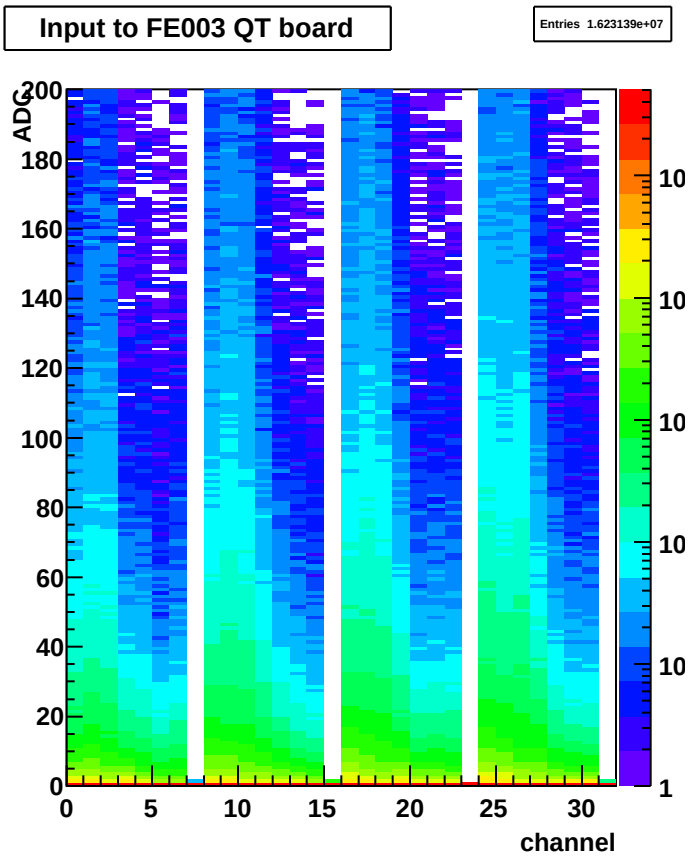

Input to FPD L3 DSM
Entries 8115696
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

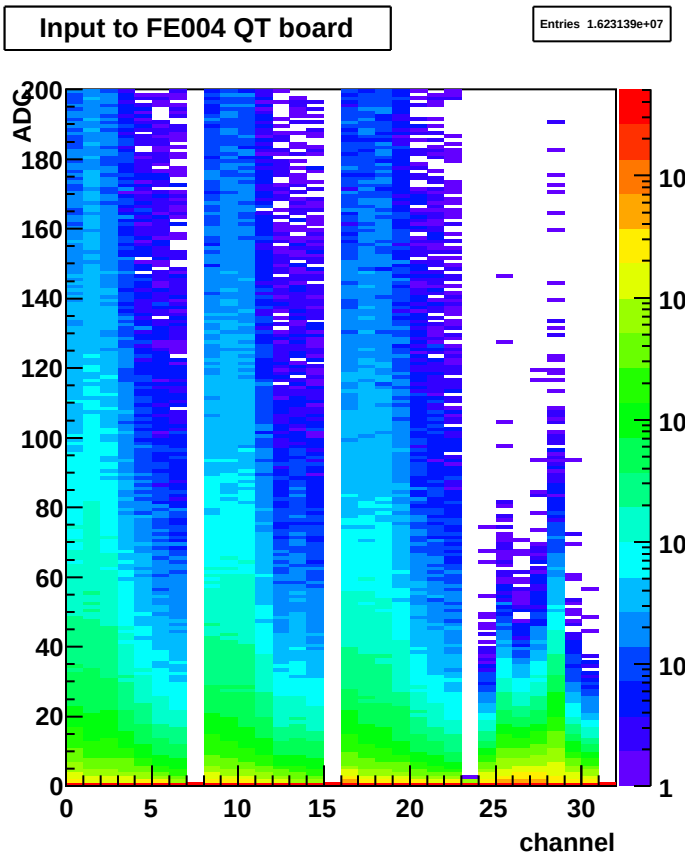

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

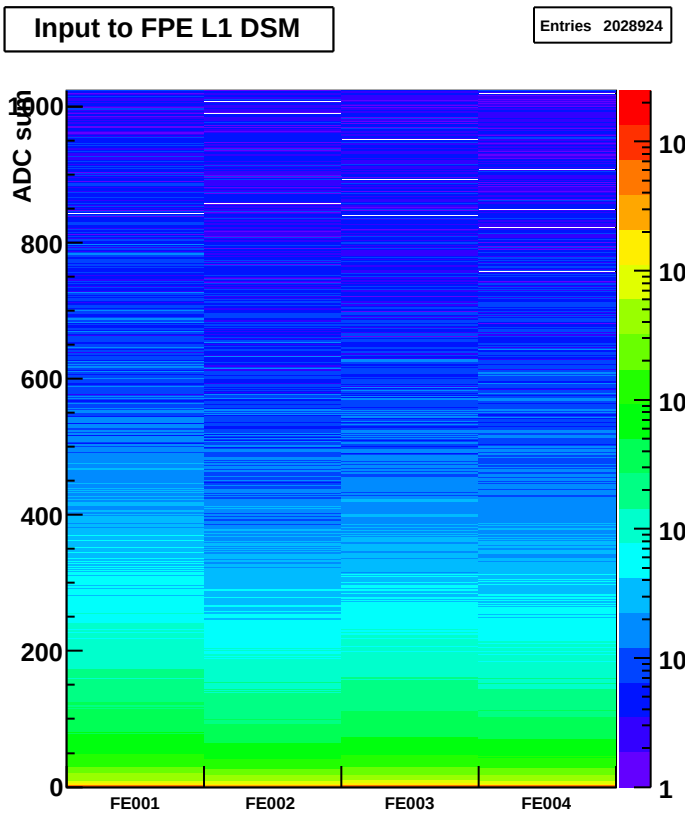

Input to FPD L2 DSM
Entries 2028924
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^5
10^4
10^3
10^2
10
1

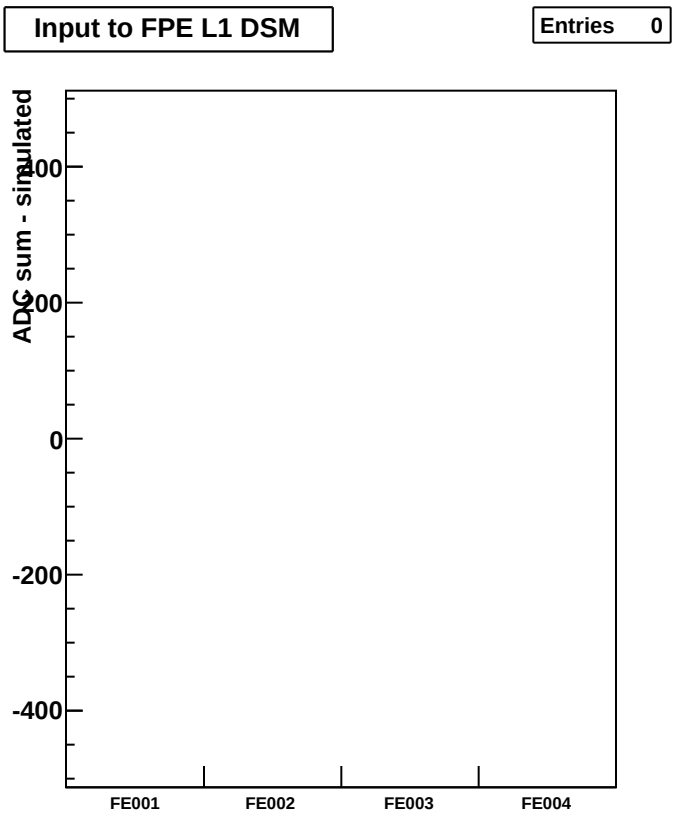

Input to FE001 QT board
Entries 1.623139e+07
ADC
channel

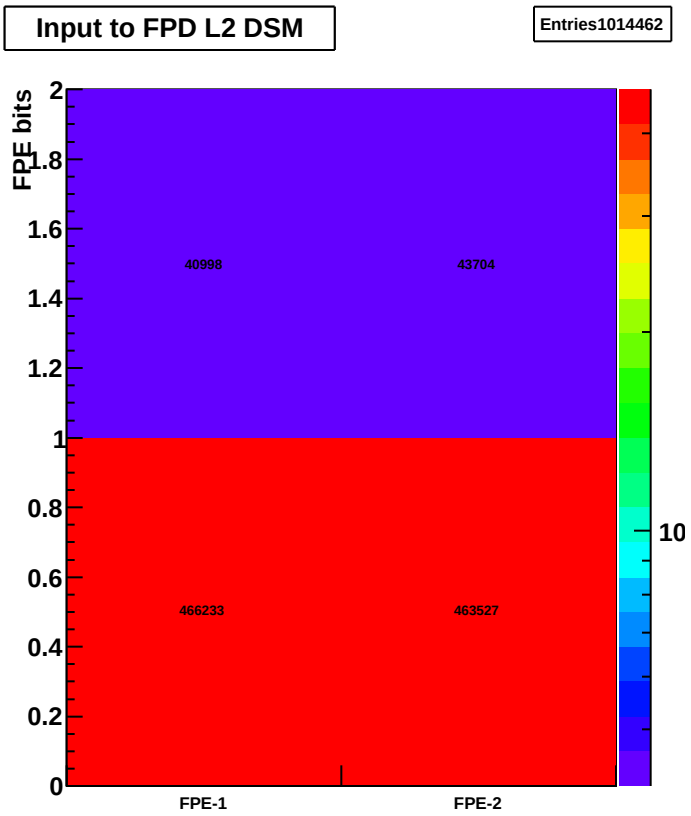

Input to FE002 QT board
Entries 1.623139e+07
ADC
channel

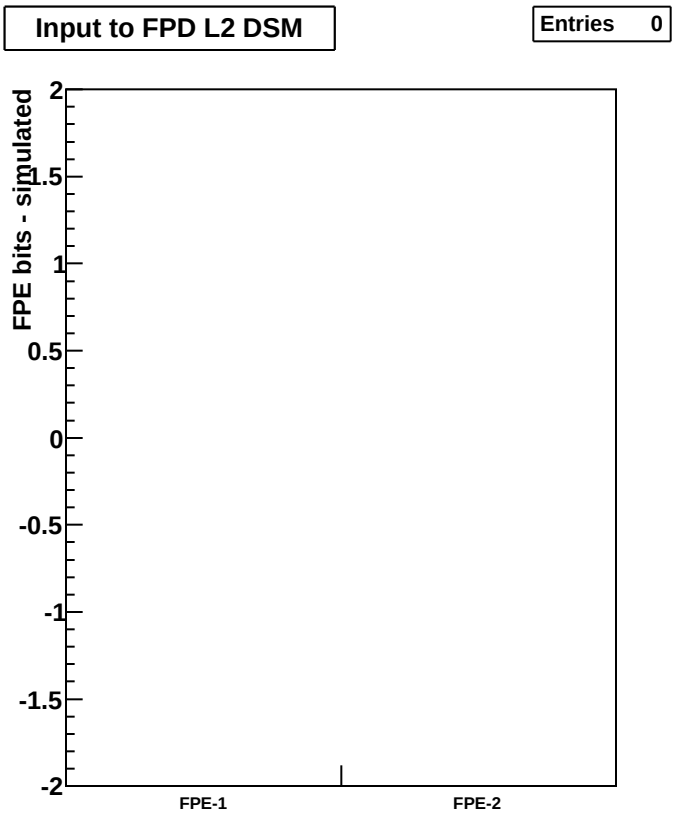

Input to FE003 QT board
Entries 1.623139e+07
ADC
channel


Input to FE004 QT board
Entries 1.623139e+07
ADC
channel


Input to FPE L1 DSM
Entries 2028924
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


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


Input to FPD L2 DSM
Entries1014462
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
40998
43704
466233
463527
FPE-1
FPE-2
10


Input to FPD L2 DSM
Entries 0
FPE bits - simulated
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
FPE-1
FPE-2