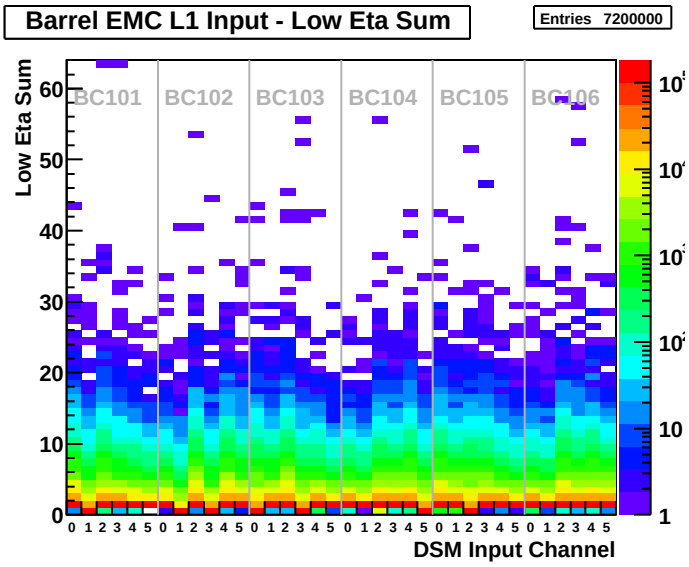
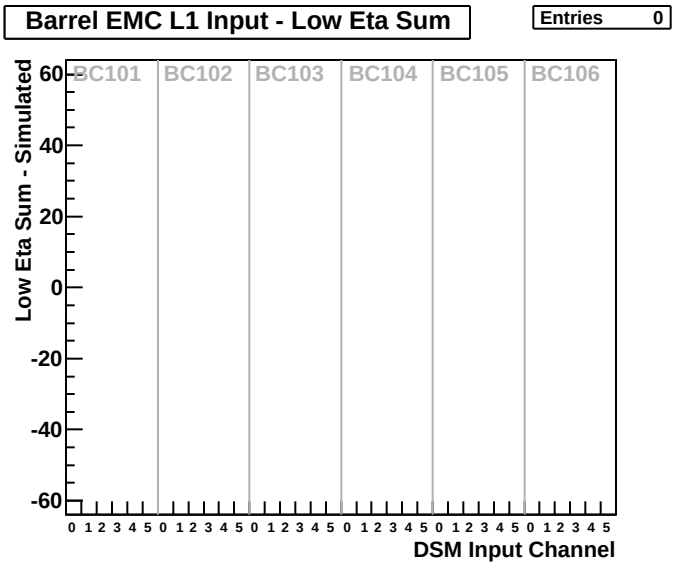
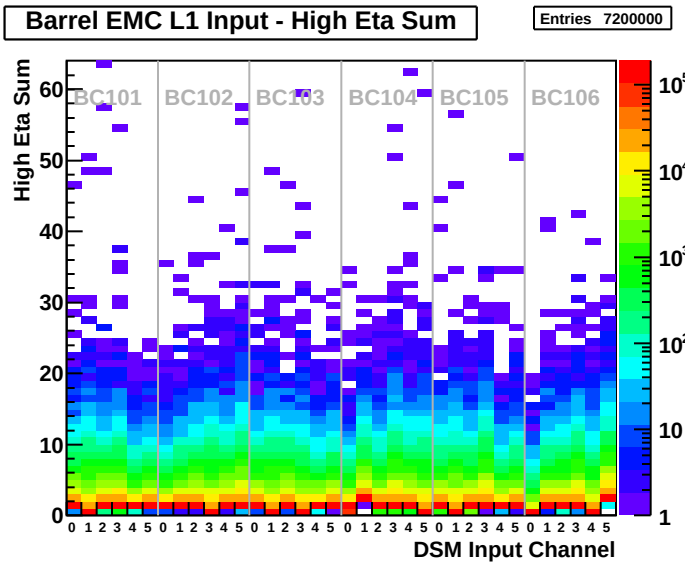
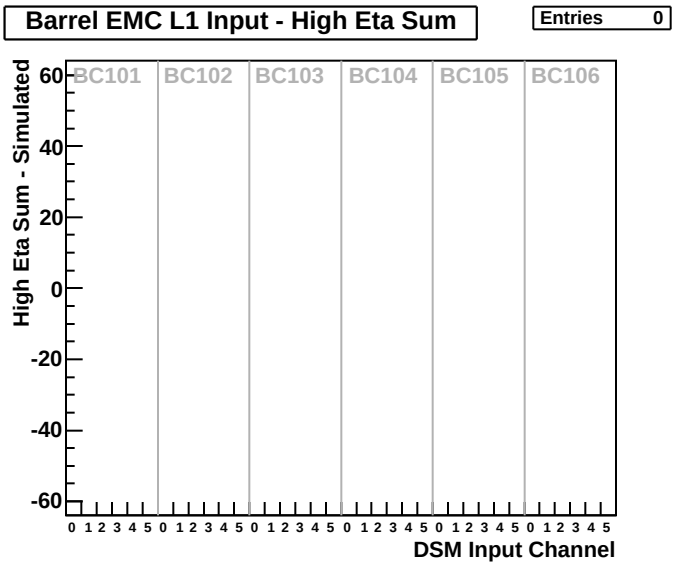
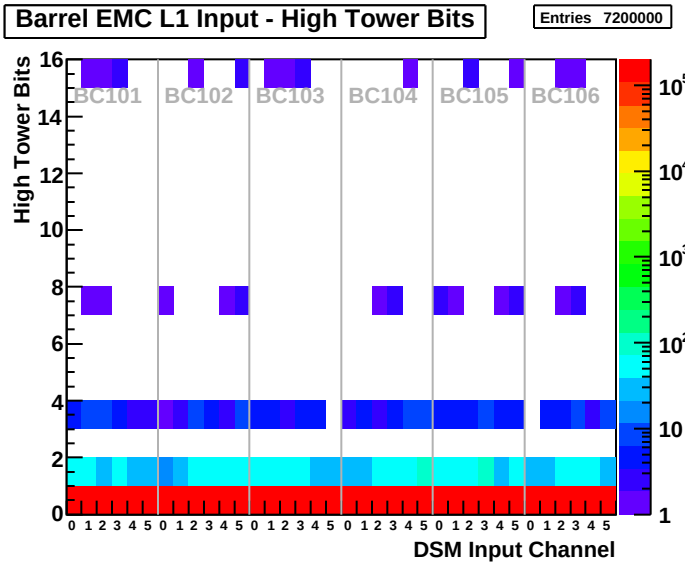
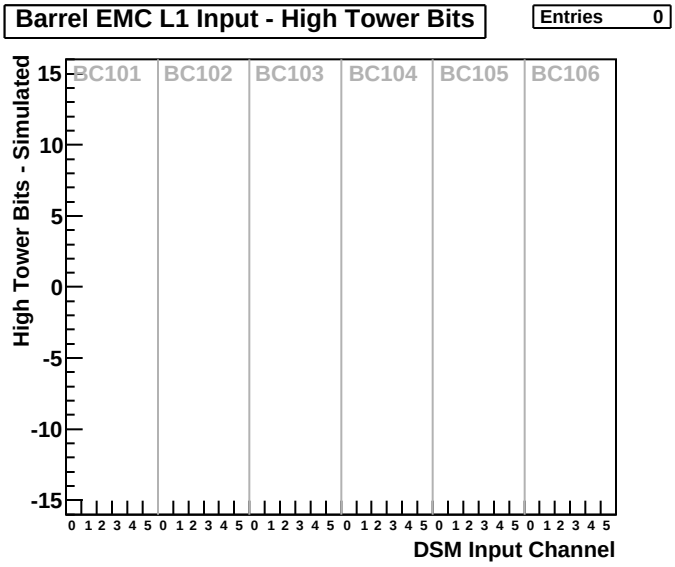

Barrel EMC L1 Input - Low Eta Sum
Entries 7200000
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

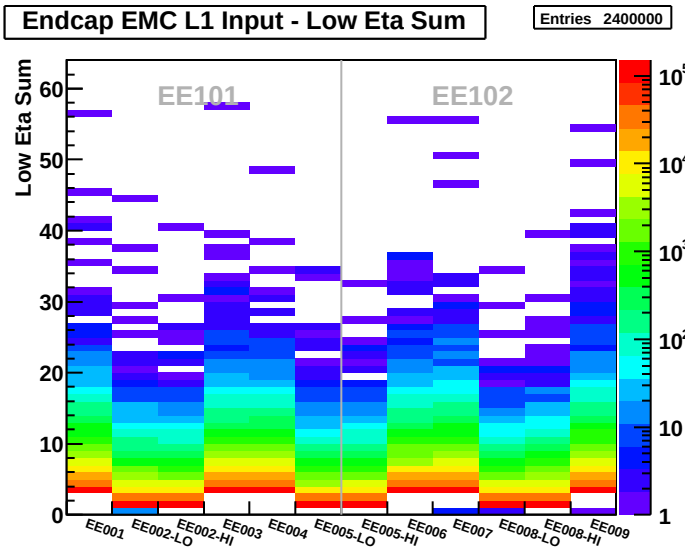

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

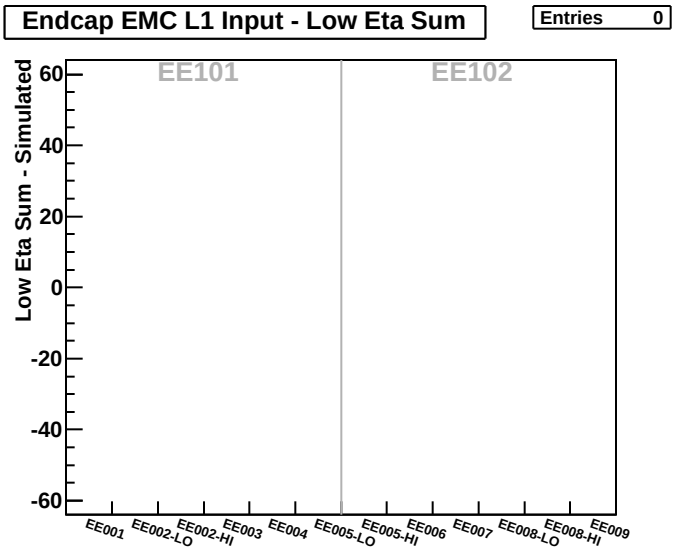

Barrel EMC L1 Input - High Eta Sum
Entries 7200000
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

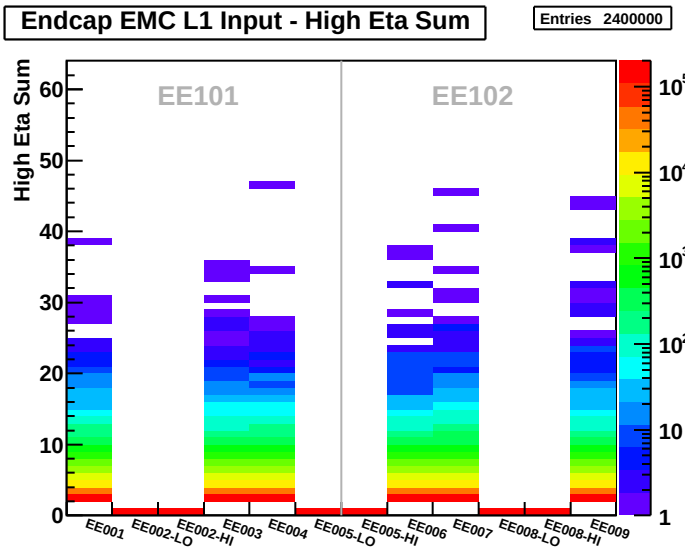

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

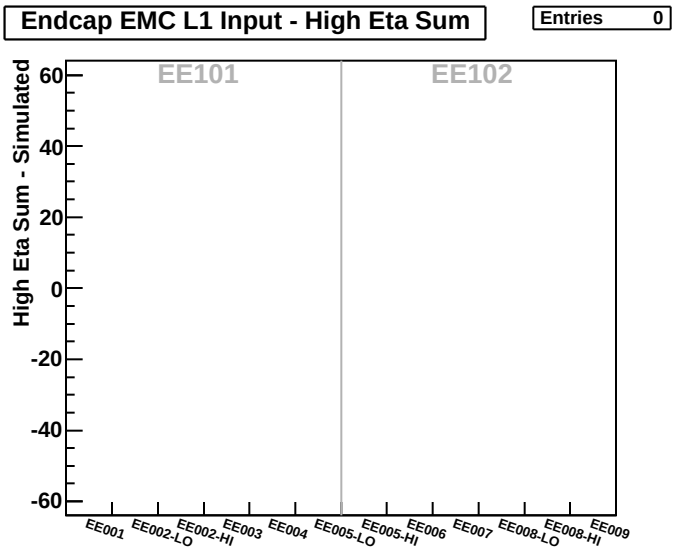

Barrel EMC L1 Input - High Tower Bits
Entries 7200000
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

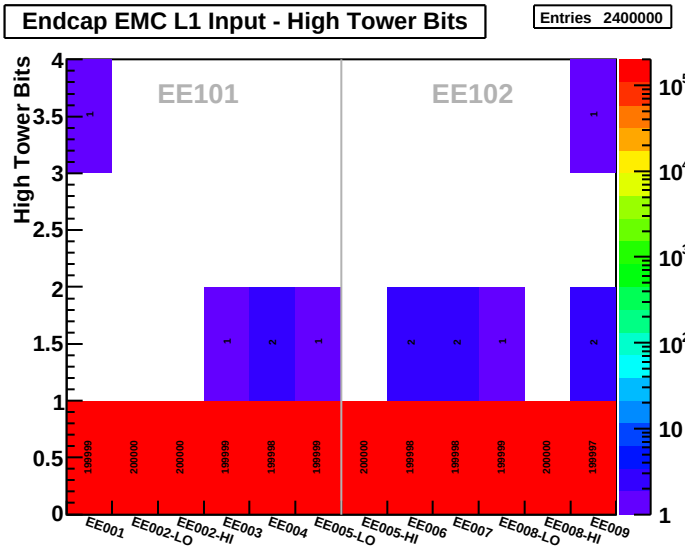

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

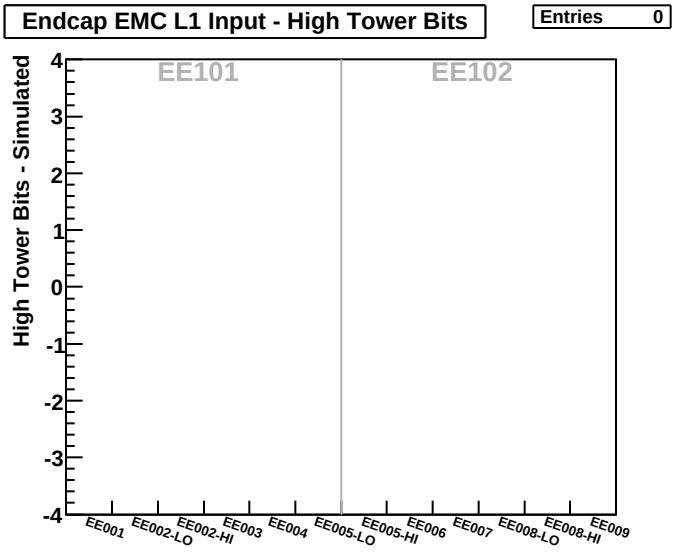

Endcap EMC L1 Input - Low Eta Sum
Entries 2400000
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

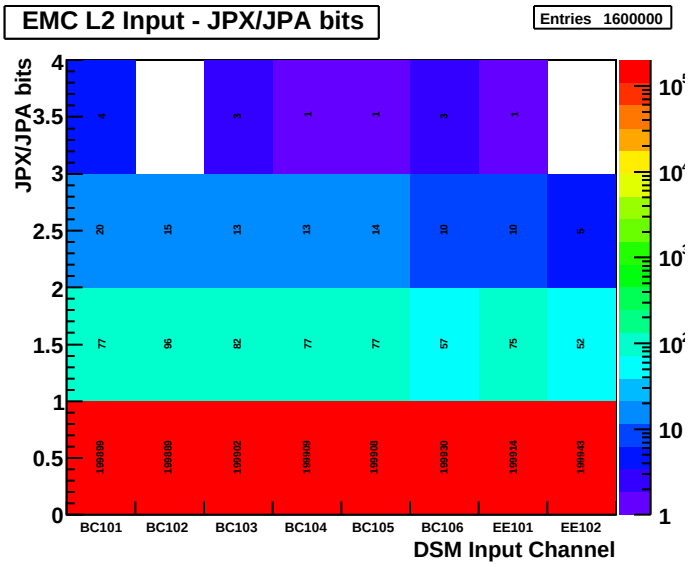

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

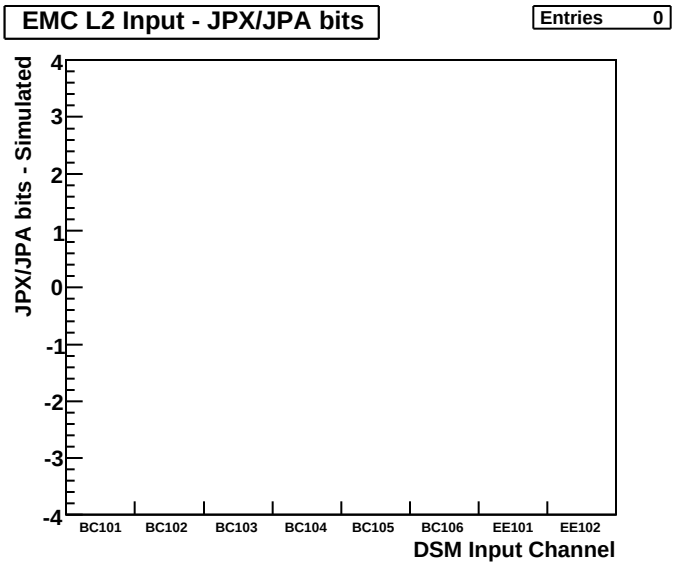

Endcap EMC L1 Input - High Eta Sum
Entries 2400000
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

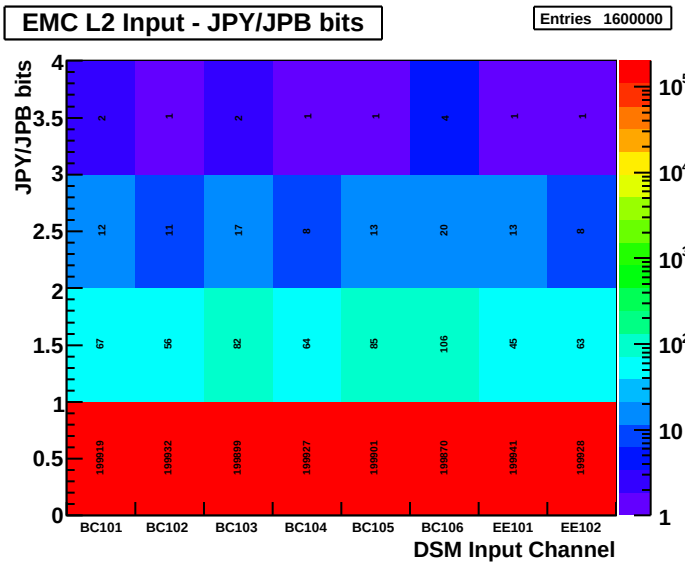

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

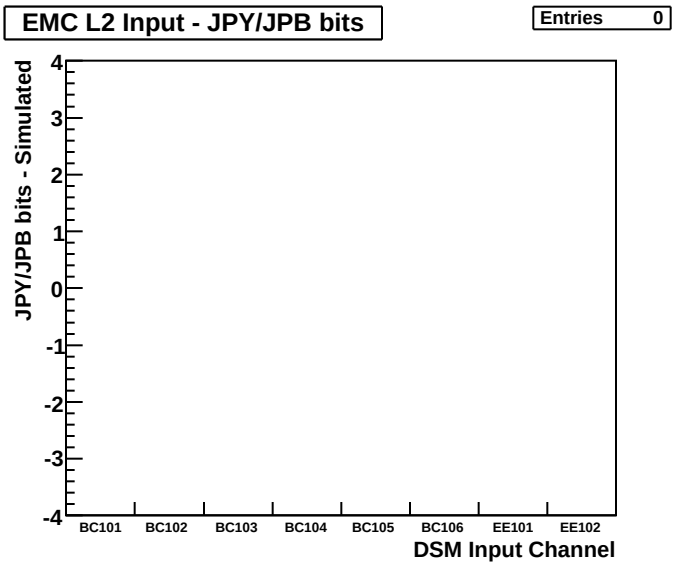

Endcap EMC L1 Input - High Tower Bits
Entries 2400000
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

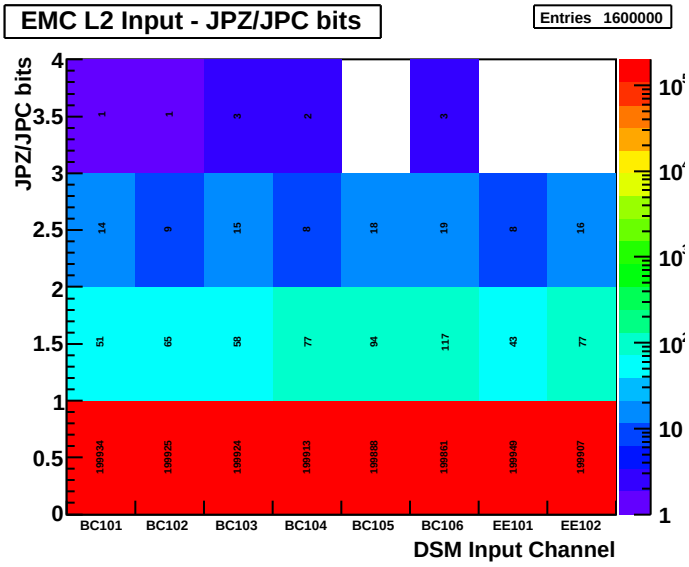

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

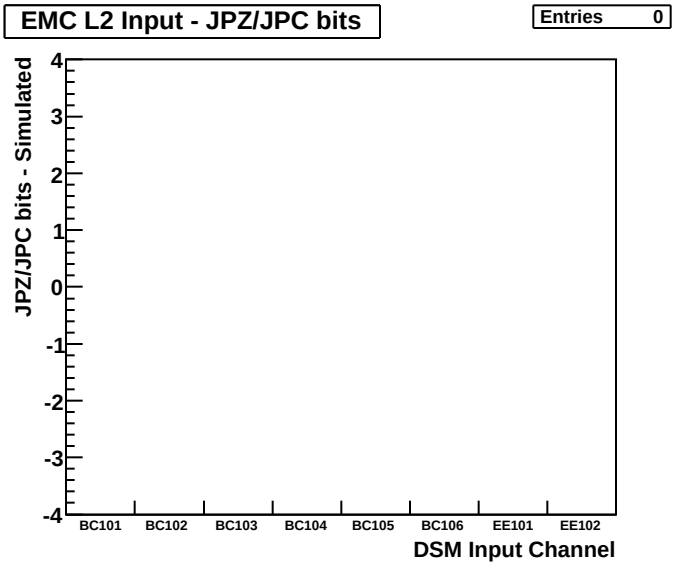

EMC L2 Input - JPX/JPA bits
Entries 1600000
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4 3 1 1 3 1
20 15 13 13 14 10 10 5
77 96 82 77 77 57 75 52
199899 199889 199902 199909 199908 199930 199914 199943

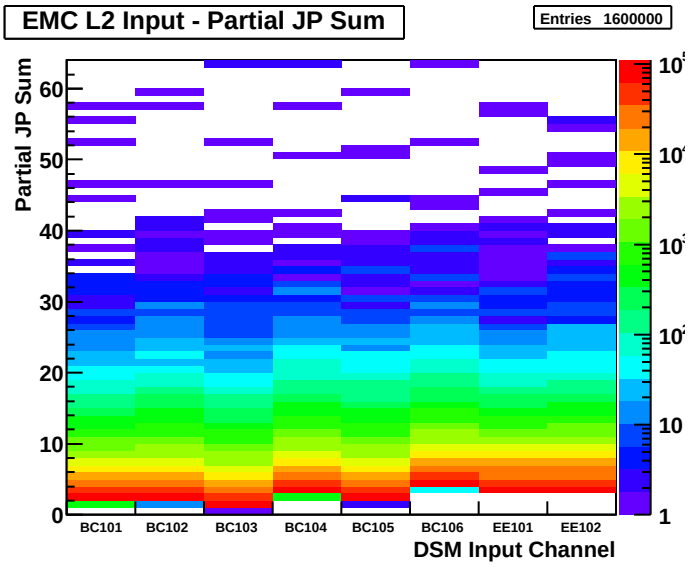

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

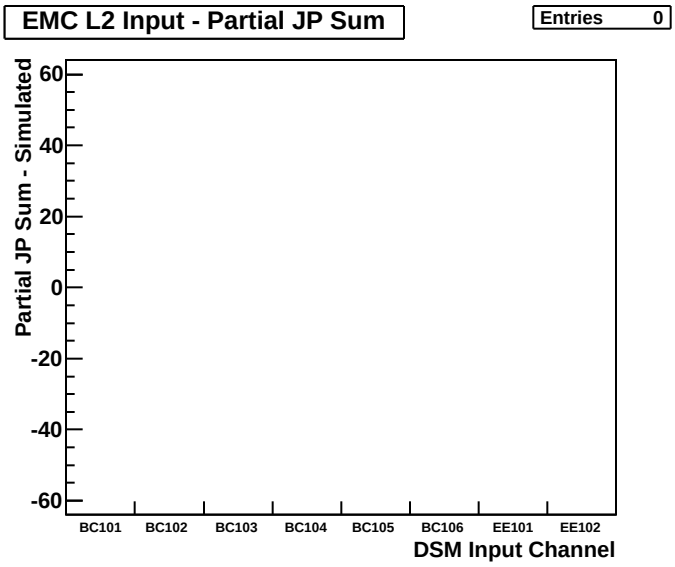

EMC L2 Input - JPY/JPB bits
Entries 1600000
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1 2 1 1 4 1 1
12 11 17 8 13 20 13 8
67 56 82 64 85 106 45 63
199919 199932 199899 199927 199901 199870 199941 199928

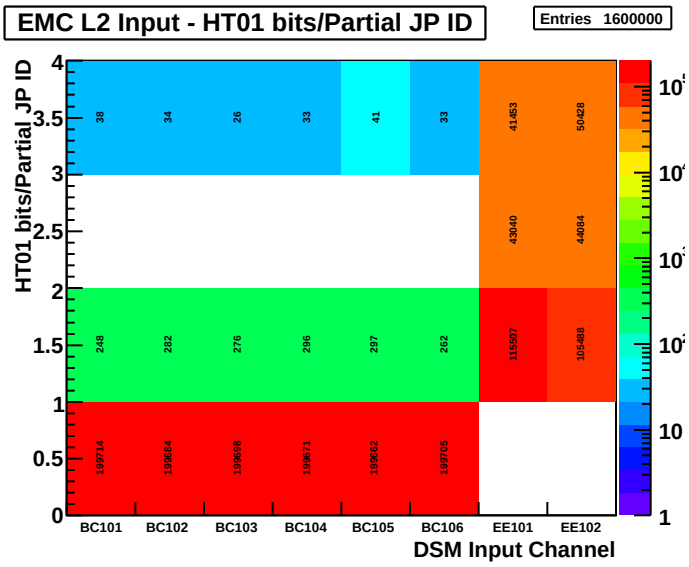

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

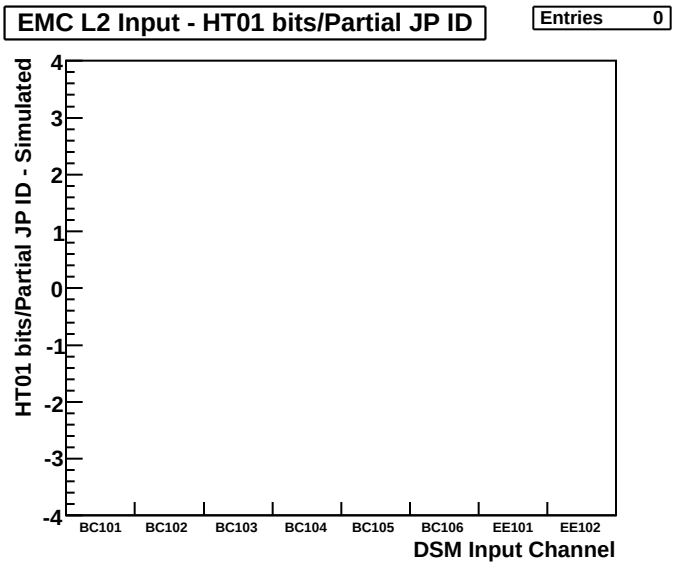

EMC L2 Input - JPZ/JPC bits
Entries 1600000
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 3 2 3
14 9 15 8 18 19 8 16
51 65 58 77 94 117 43 77
199934 199925 199924 199913 199888 199861 199949 199907

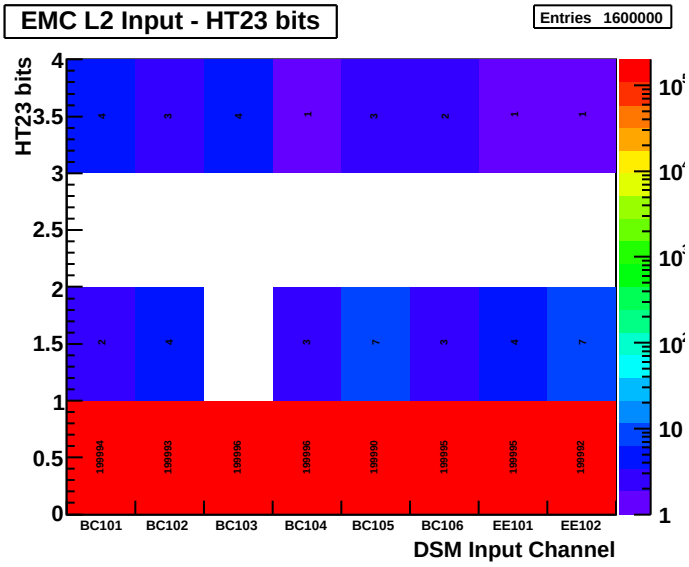

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

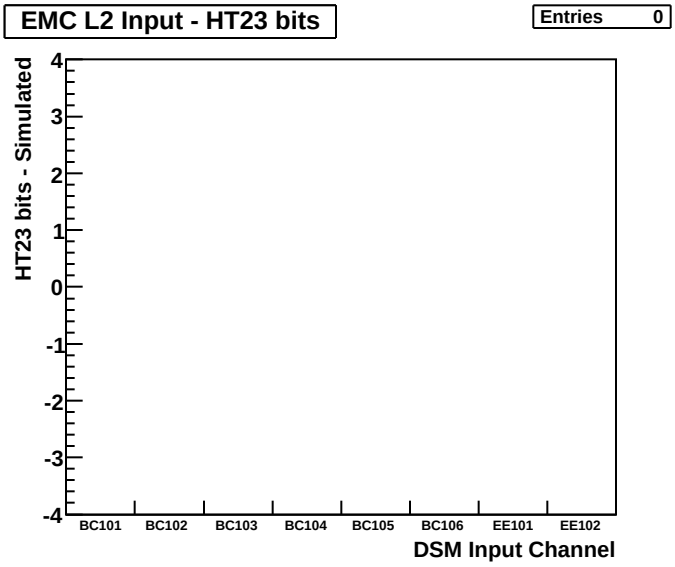

EMC L2 Input - Partial JP Sum
Entries 1600000
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

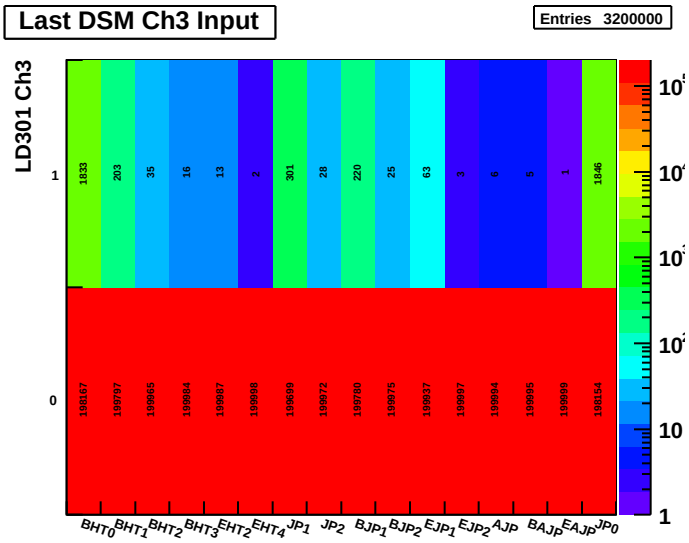

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

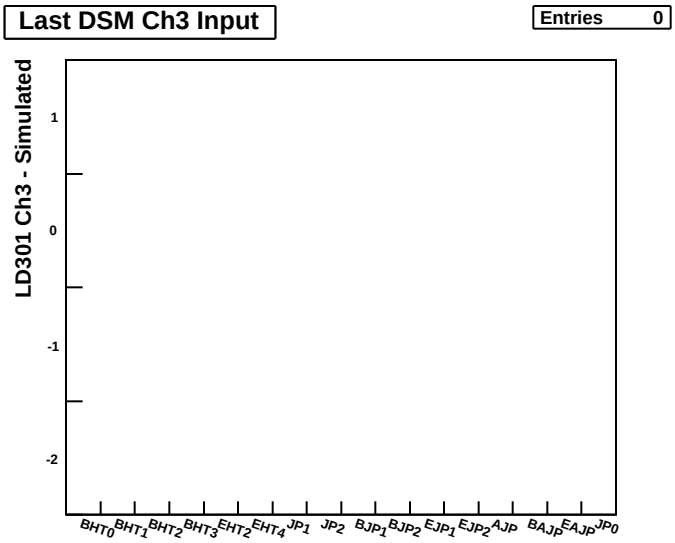

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1600000
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

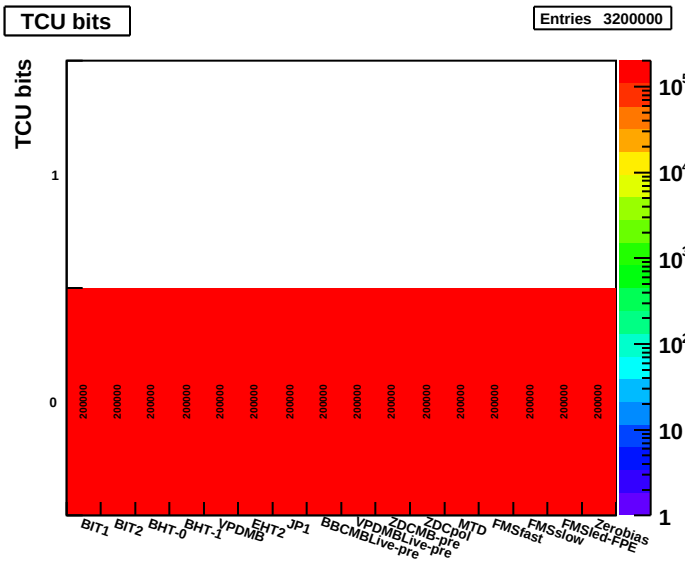

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

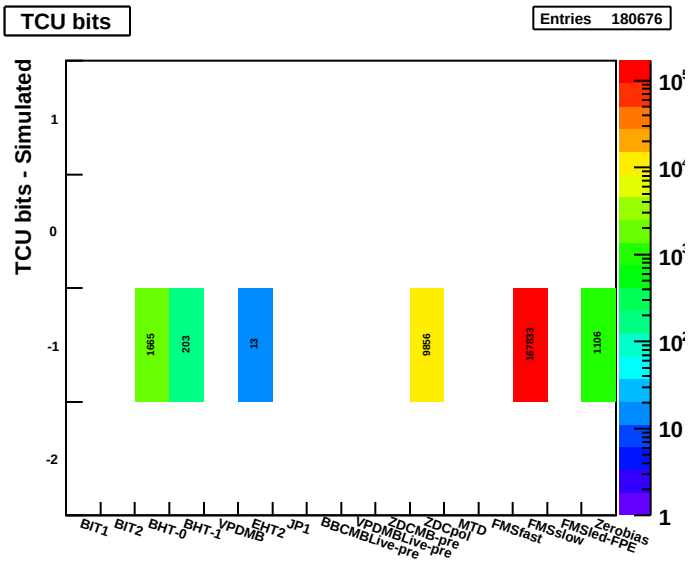

EMC L2 Input - HT23 bits
Entries 1600000
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

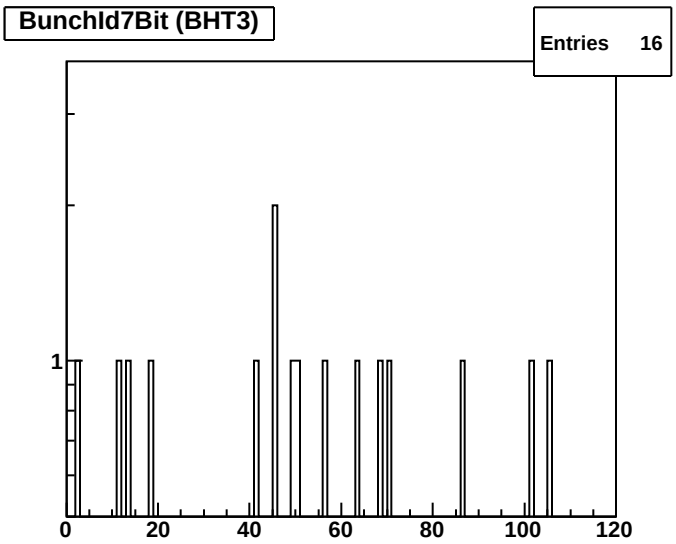

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

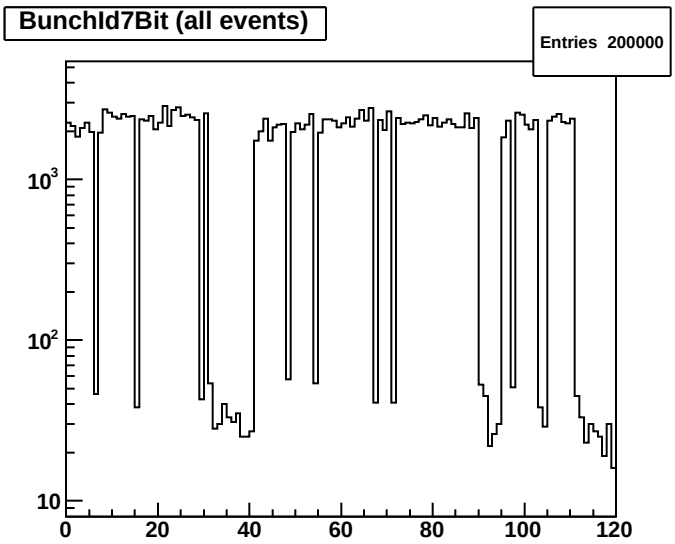

Last DSM Ch3 Input
Entries 3200000
LD301 Ch3
1833 203 35 16 13 2 301 28 220 25 63 3 6 5 1 1846
198167 199797 199965 199984 199987 199998 199999 199972 199780 199975 199937 199997 199994 199995 199999 198154
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

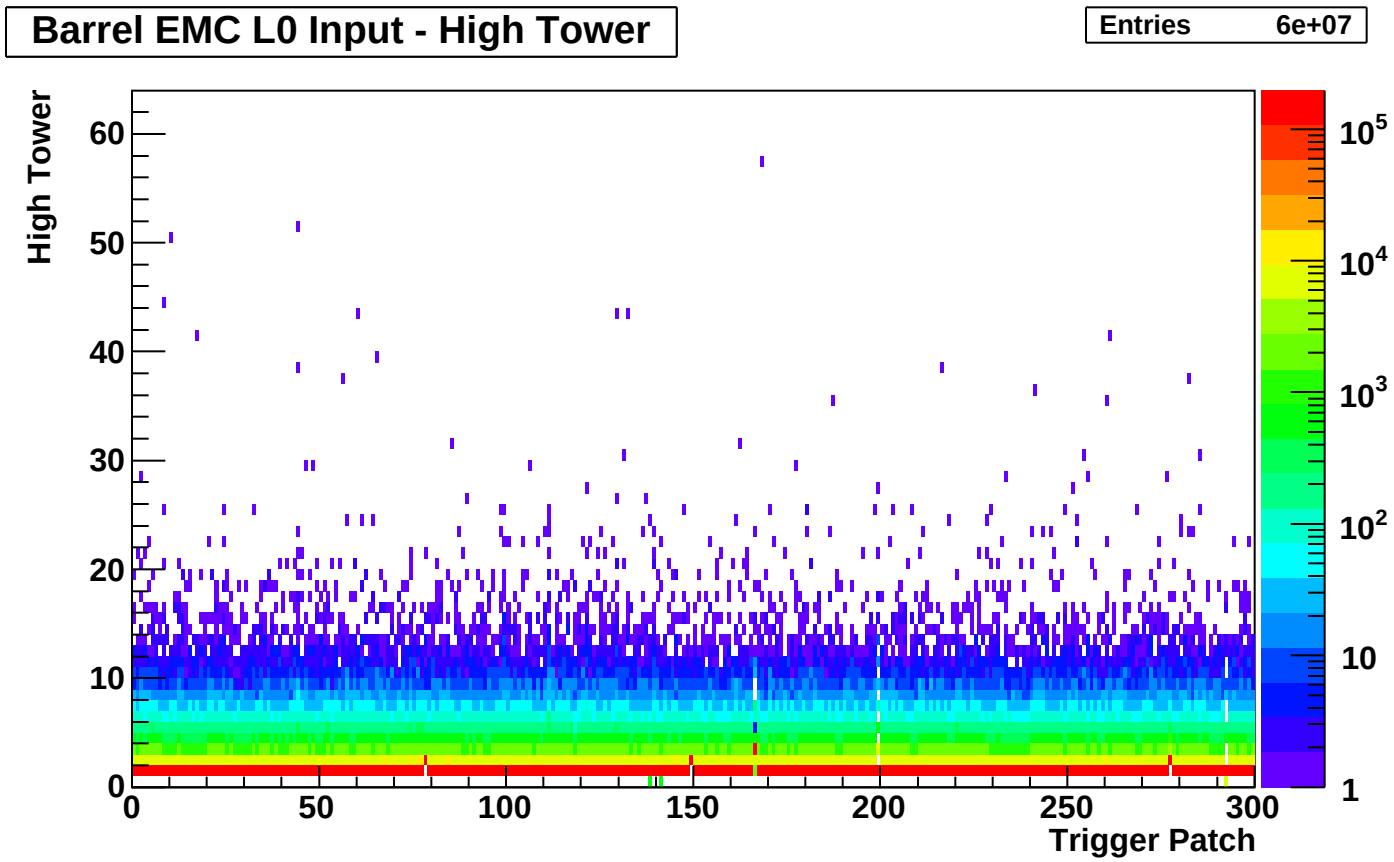

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

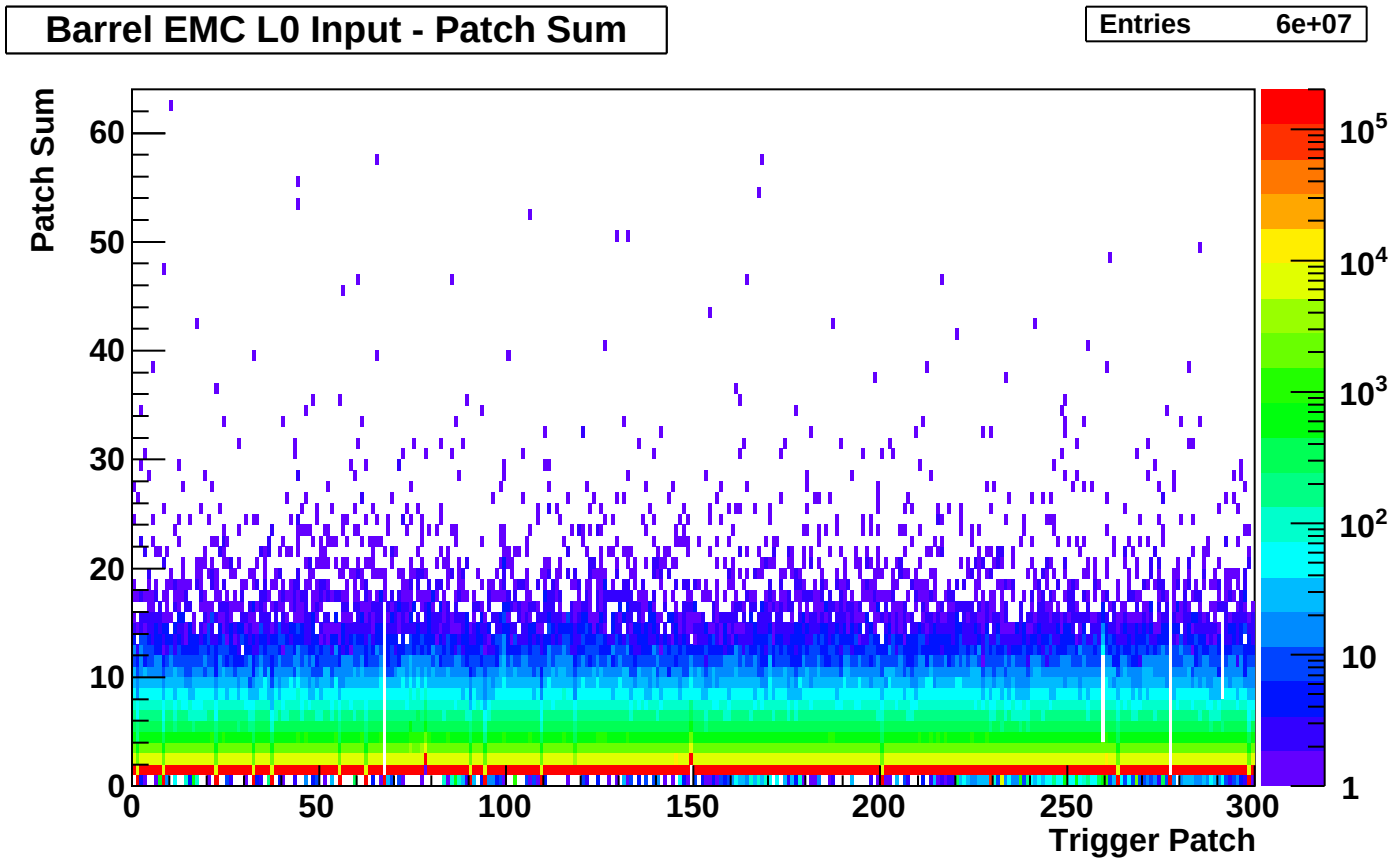

TCU bits
Entries 3200000
TCU bits
200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000 200000
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

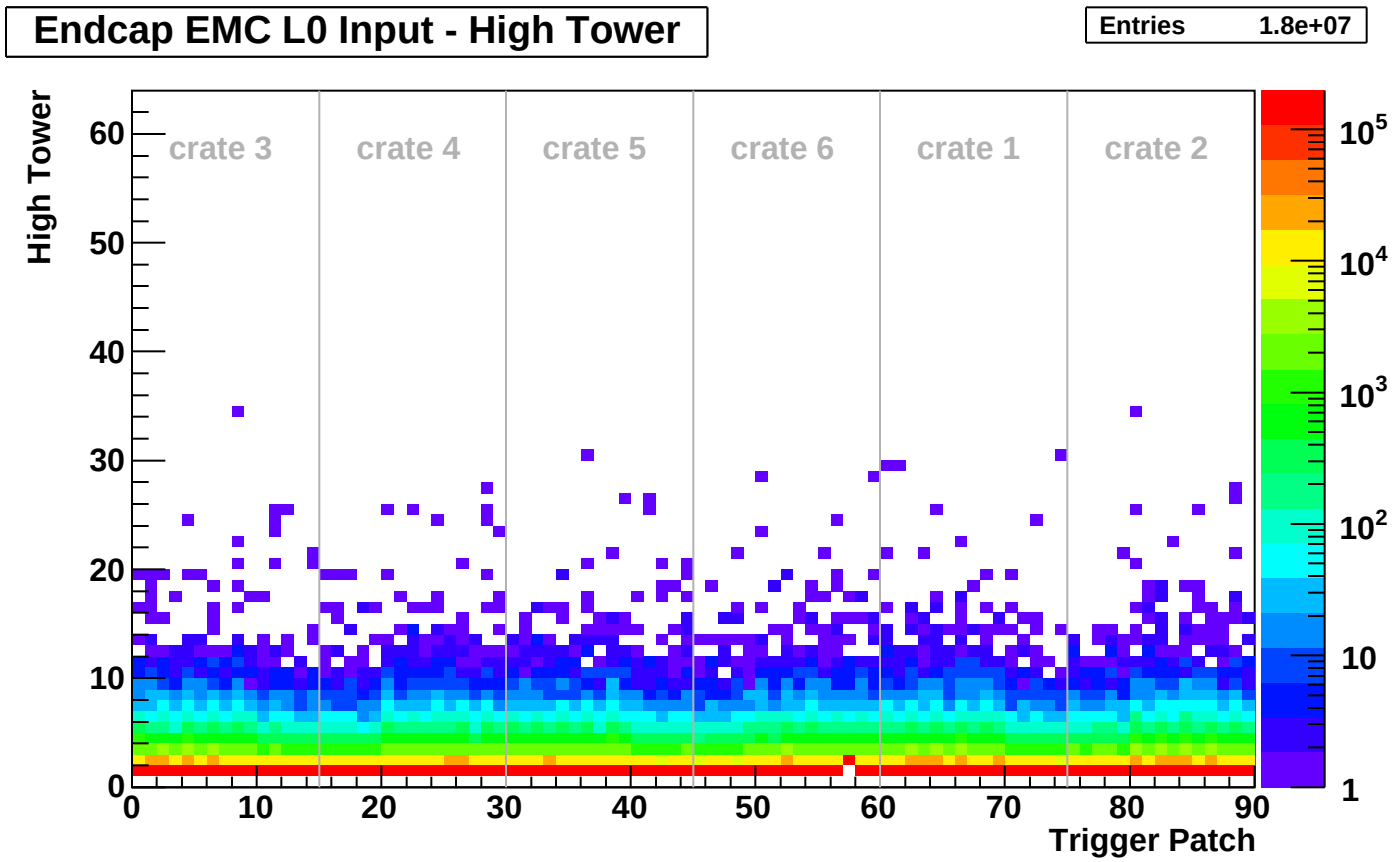

TCU bits
Entries 180676
TCU bits - Simulated
1665 203 13 9856 167833 1106
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

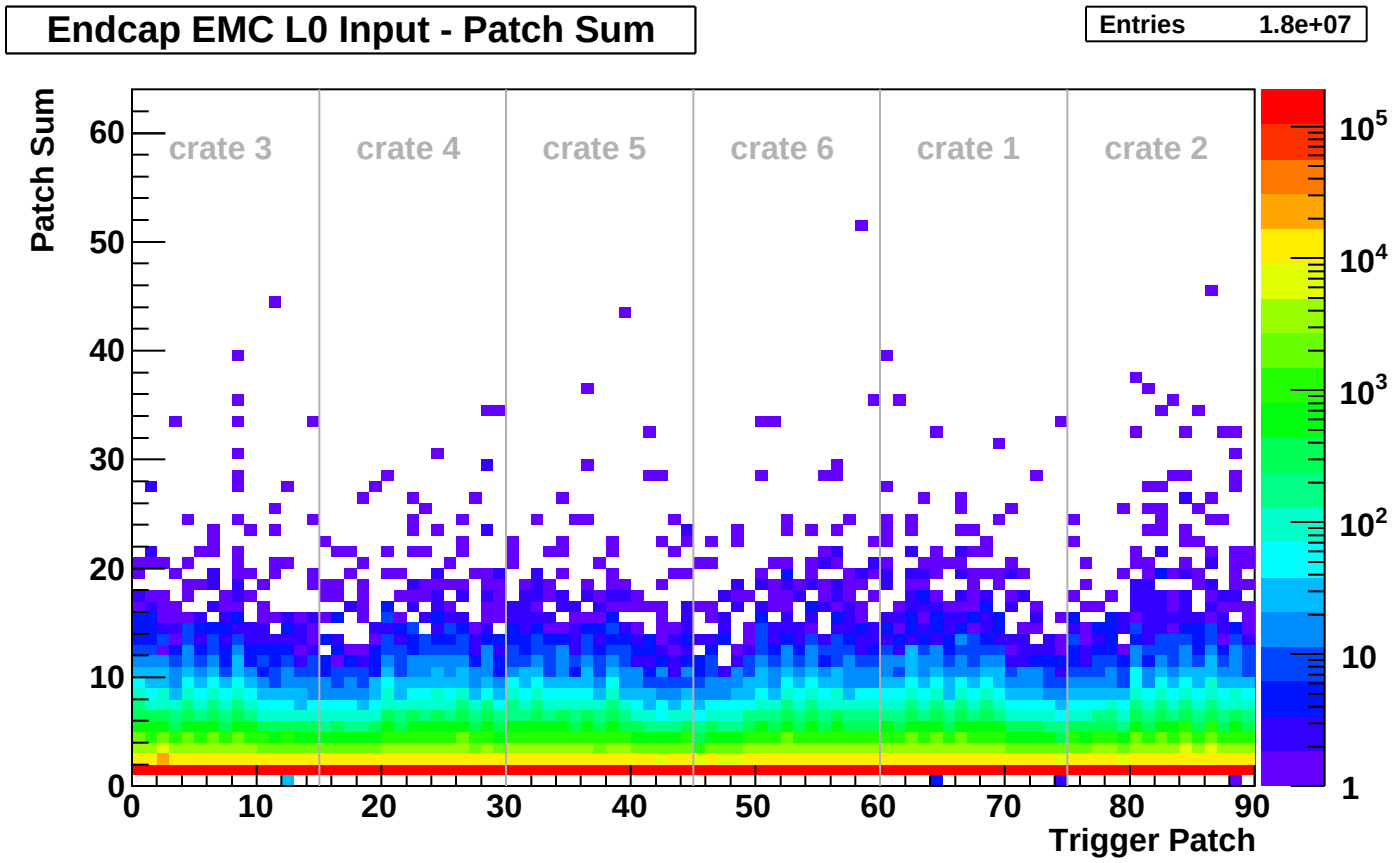

BunchId7Bit (BHT3)
Entries 16

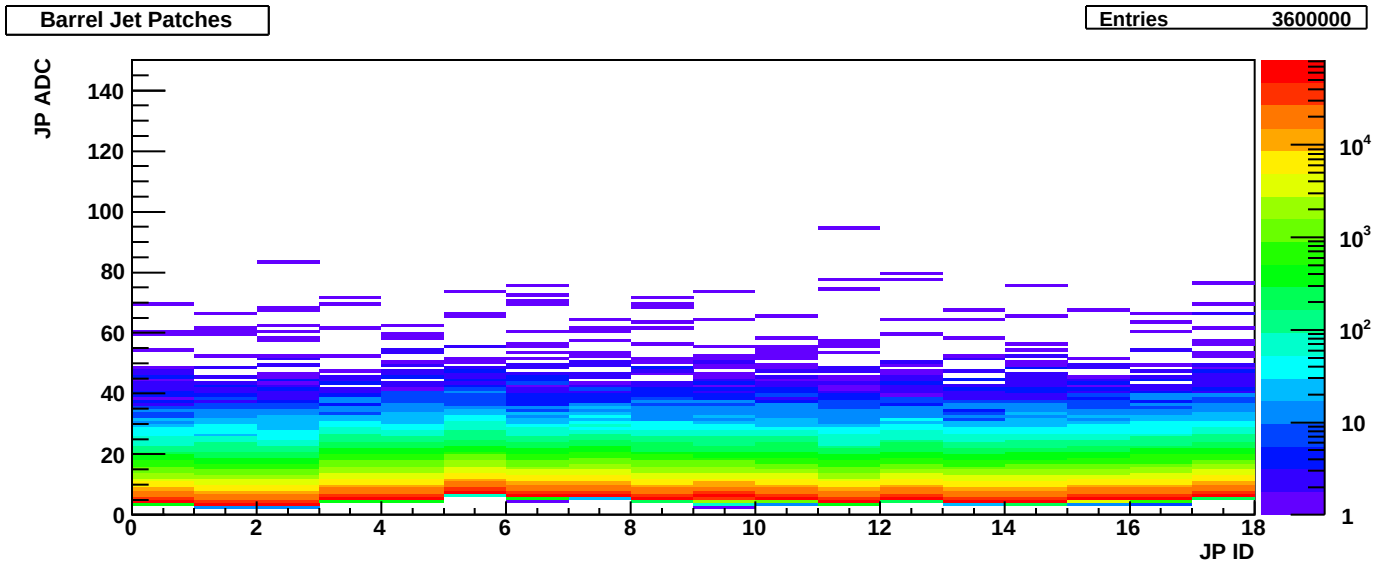

BunchId7Bit (all events)
Entries 200000

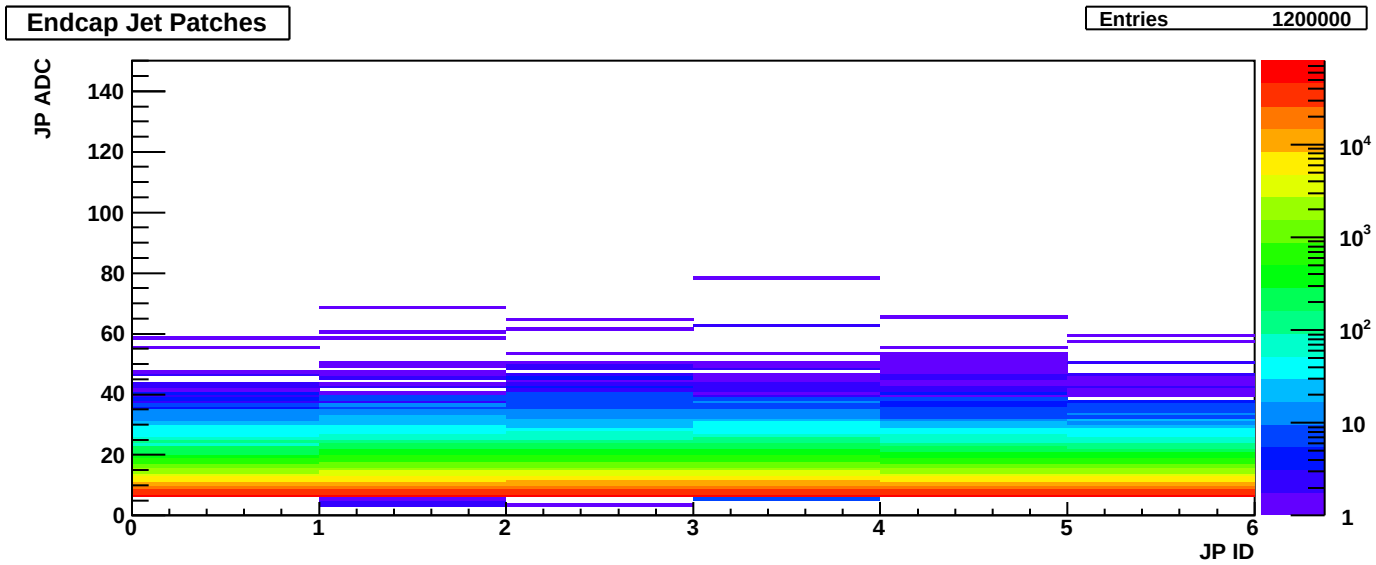

Barrel EMC L0 Input - High Tower
Entries 6e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

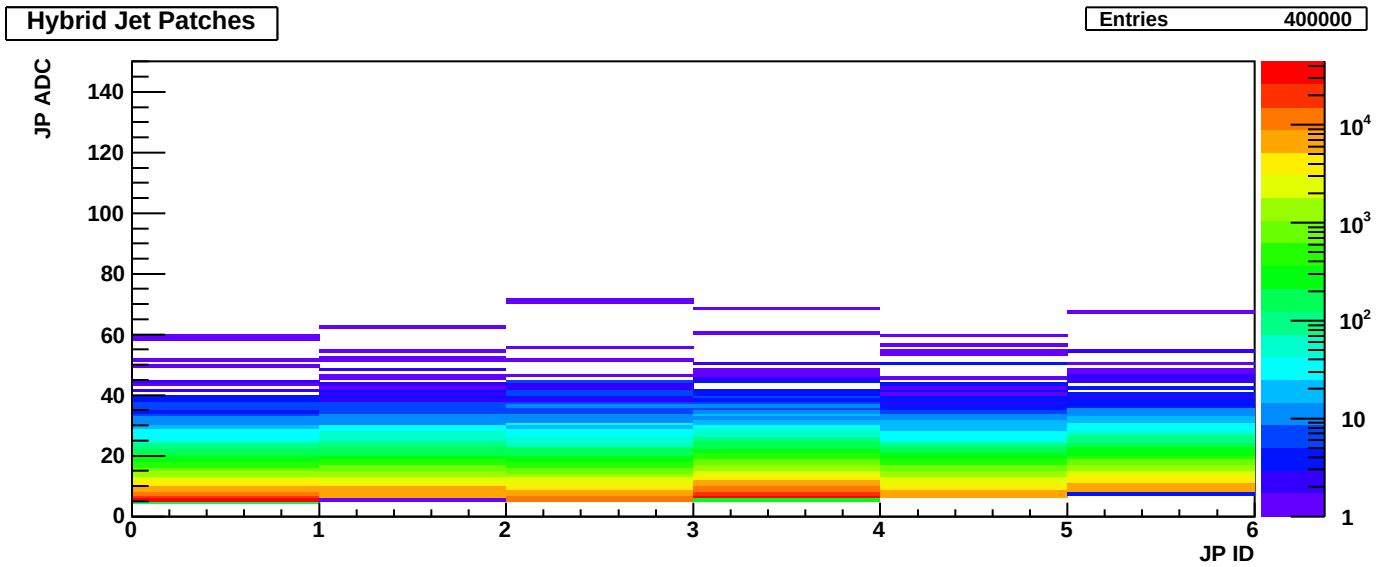

Barrel EMC L0 Input - Patch Sum
Entries 6e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

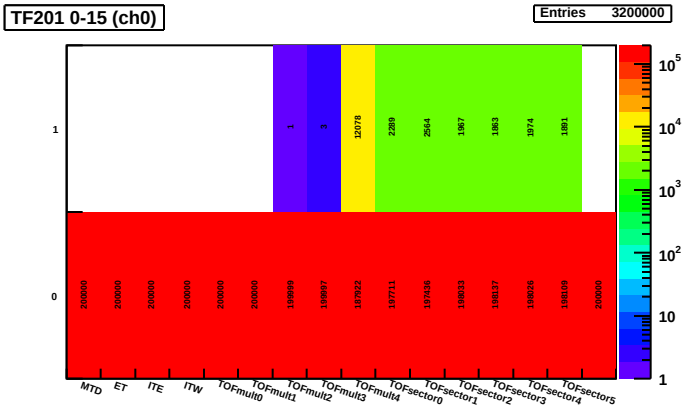

Endcap EMC L0 Input - High Tower
Entries 1.8e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

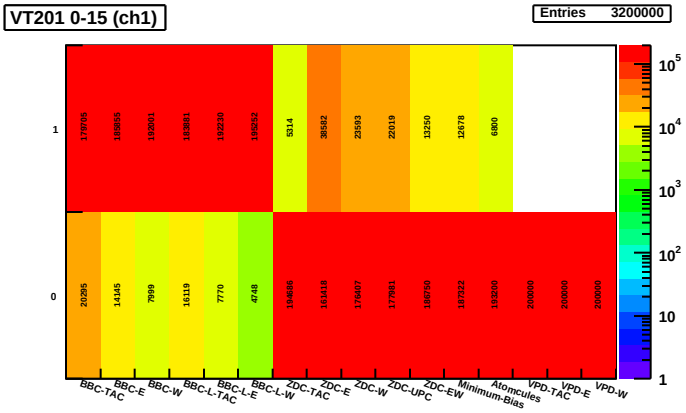

Endcap EMC L0 Input - Patch Sum
Entries 1.8e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

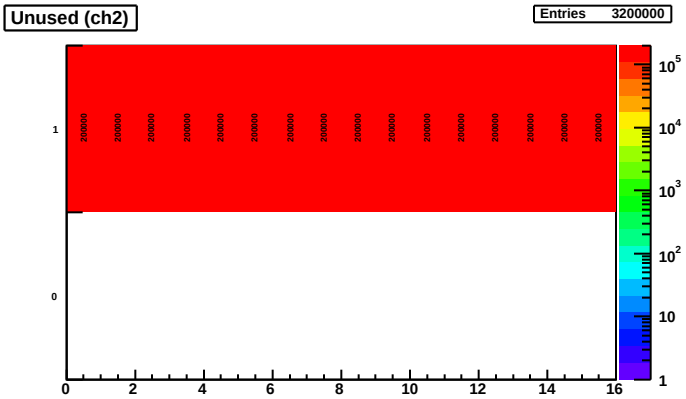

Barrel Jet Patches
Entries 3600000
JP ADC
JP ID

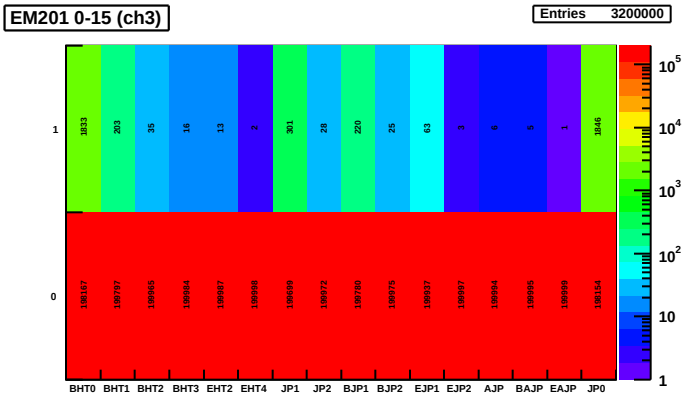

Endcap Jet Patches
Entries 1200000
JP ADC
JP ID

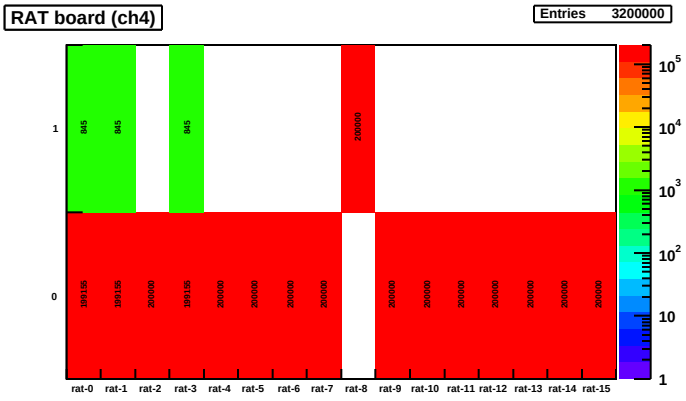

Hybrid Jet Patches
Entries 400000
JP ADC
JP ID

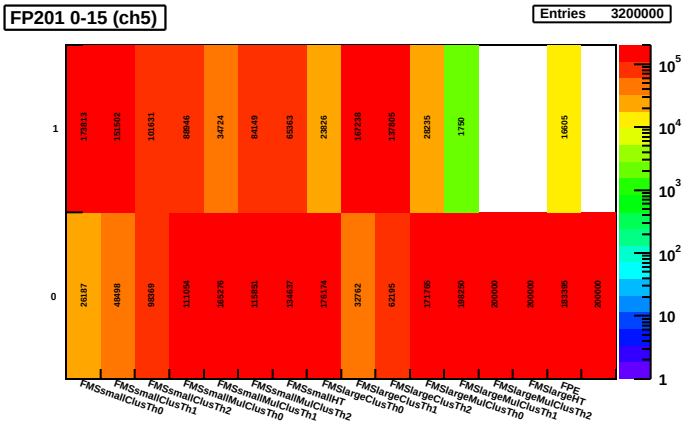

TF201 0-15 (ch0)
Entries 3200000
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

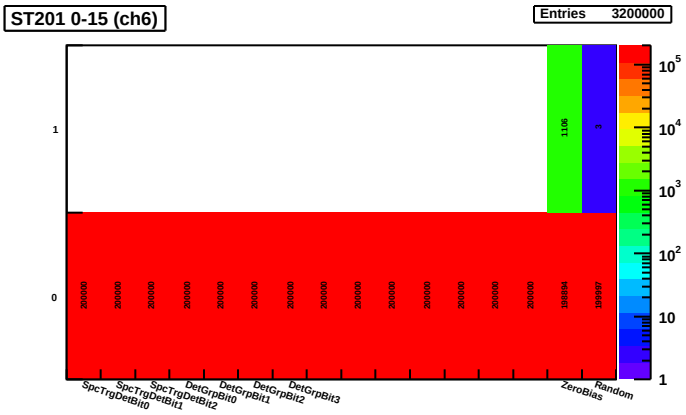

VT201 0-15 (ch1)
Entries 3200000
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

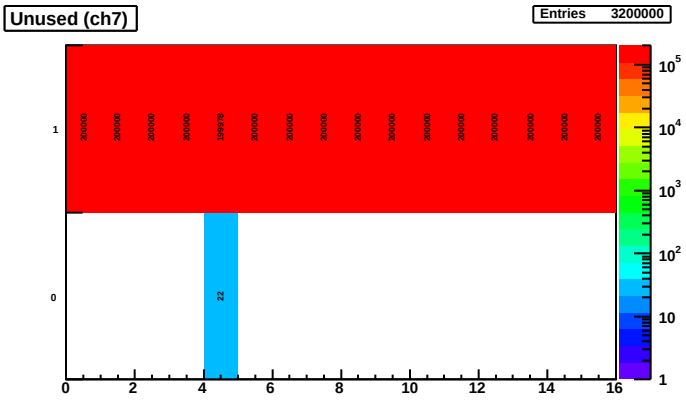

Unused (ch2)
Entries 3200000

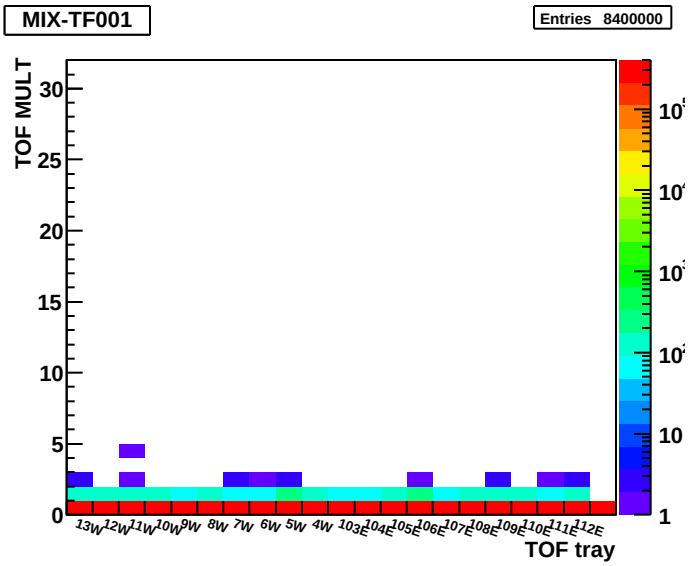

EM201 0-15 (ch3)
Entries 3200000
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

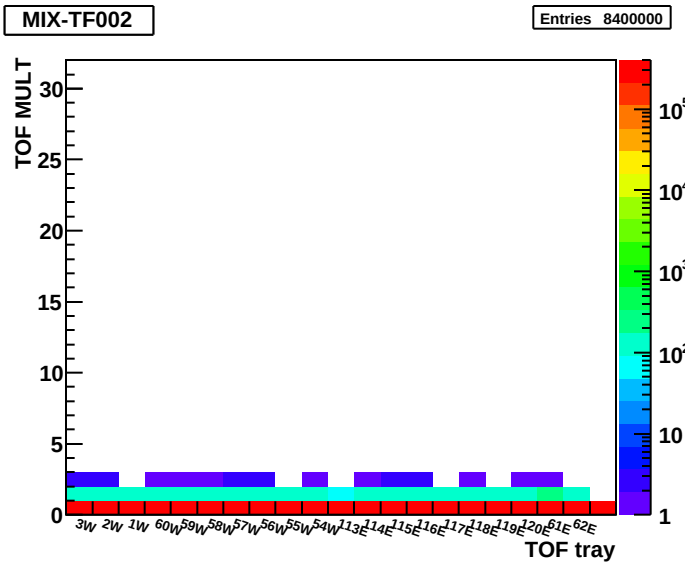

RAT board (ch4)
Entries 3200000
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

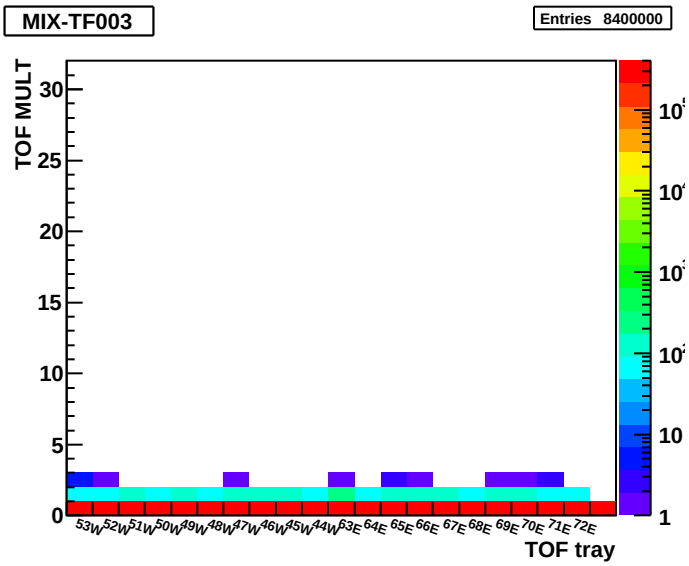

FP201 0-15 (ch5)
Entries 3200000
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

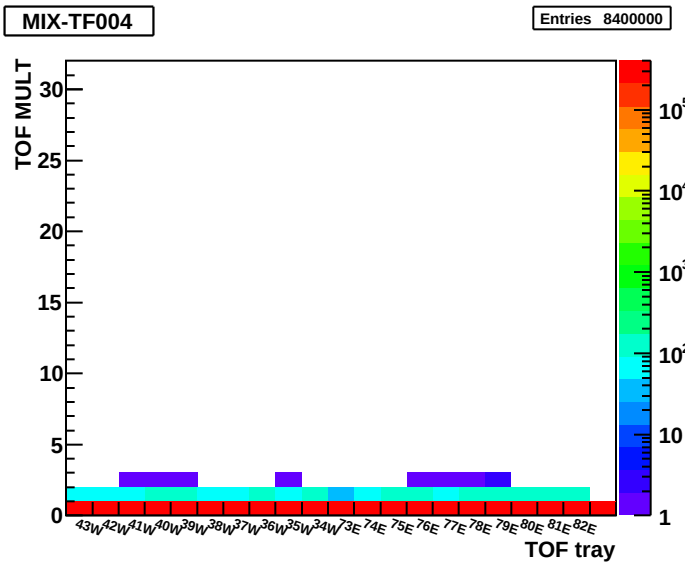

ST201 0-15 (ch6)
Entries 3200000
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

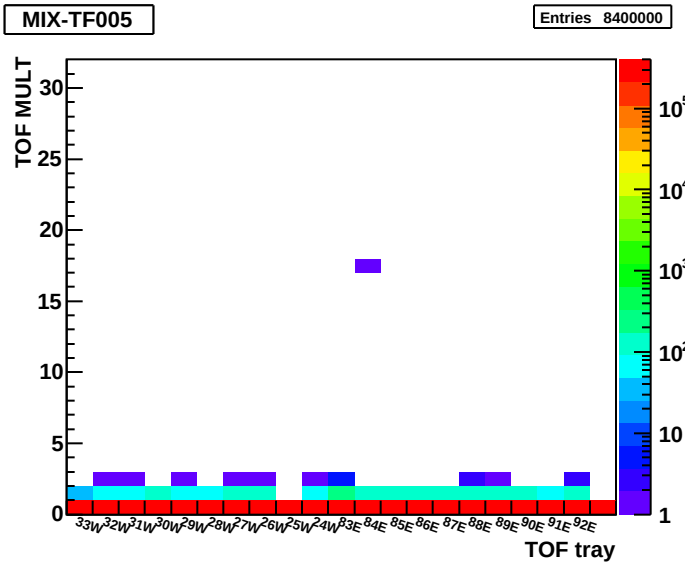

Unused (ch7)
Entries 3200000

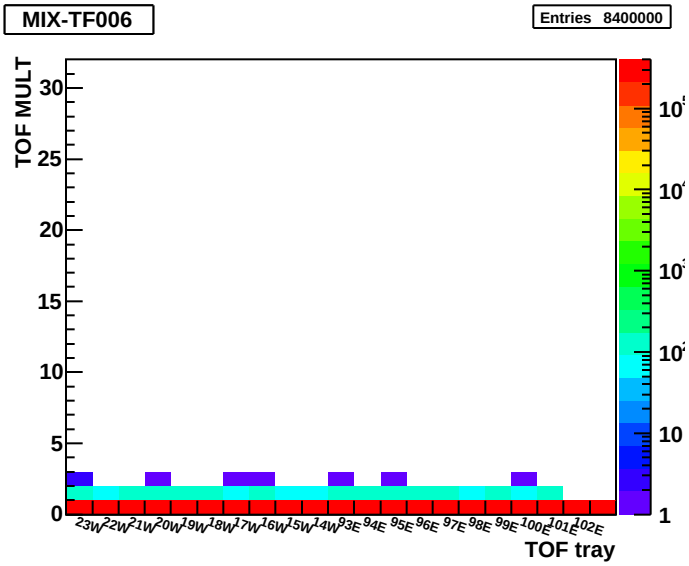

MIX-TF001
Entries 8400000
TOF MULT
TOF tray

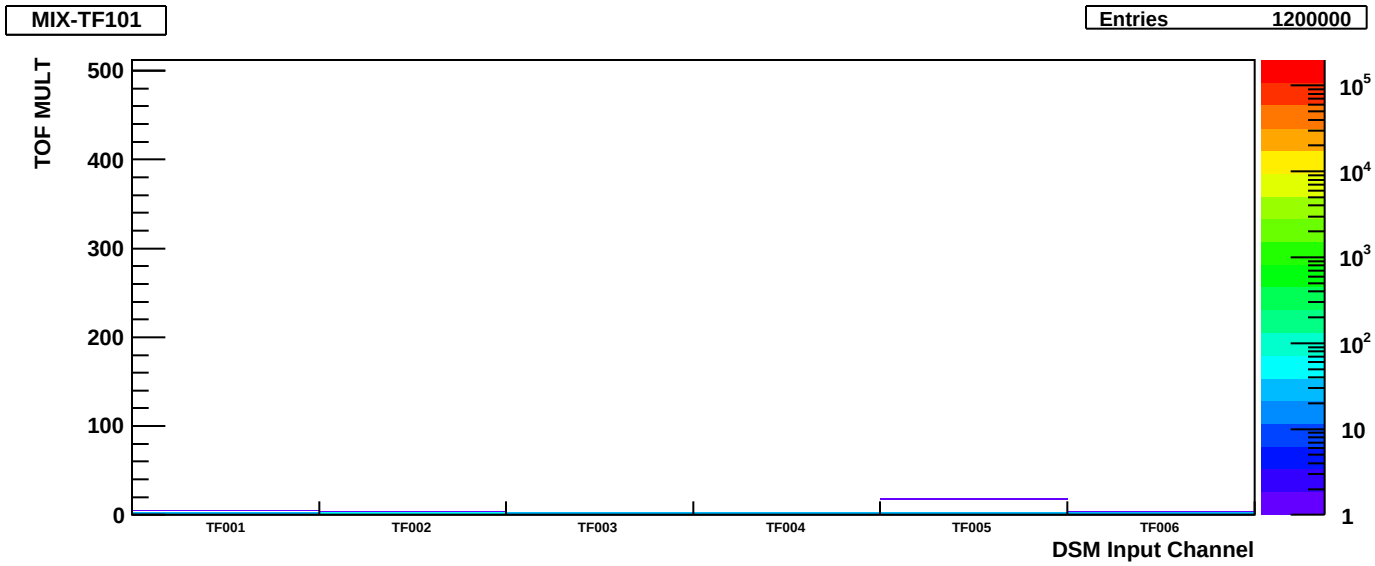

MIX-TF002
Entries 8400000
TOF MULT
TOF tray

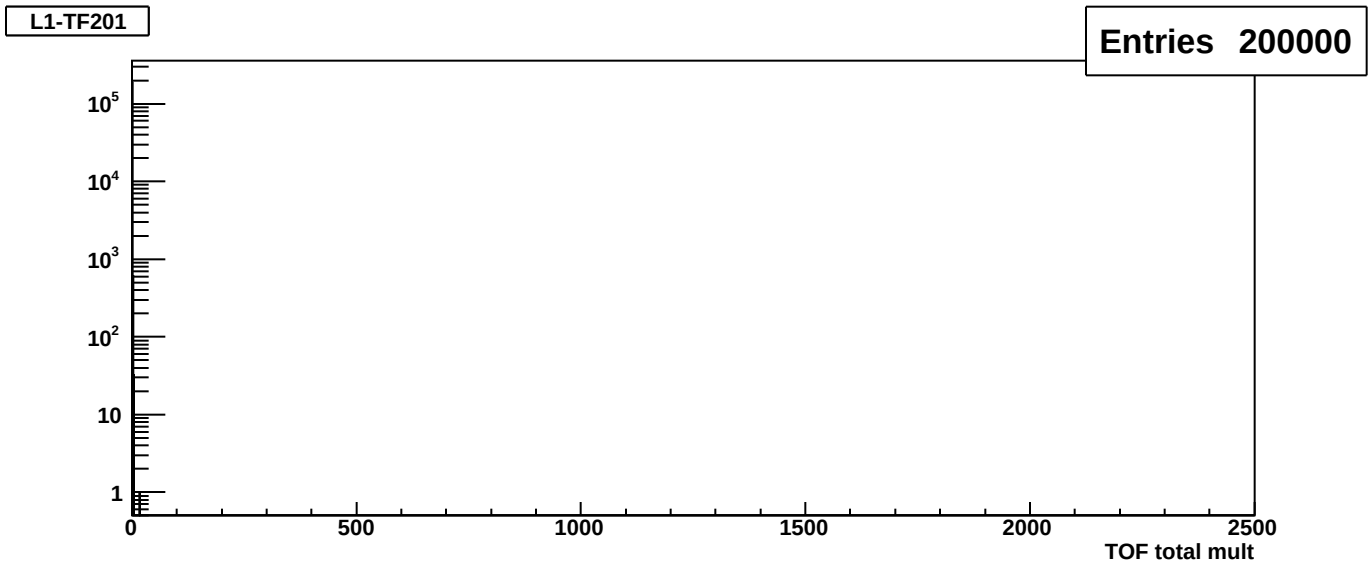

MIX-TF003
Entries 8400000
TOF MULT
TOF tray

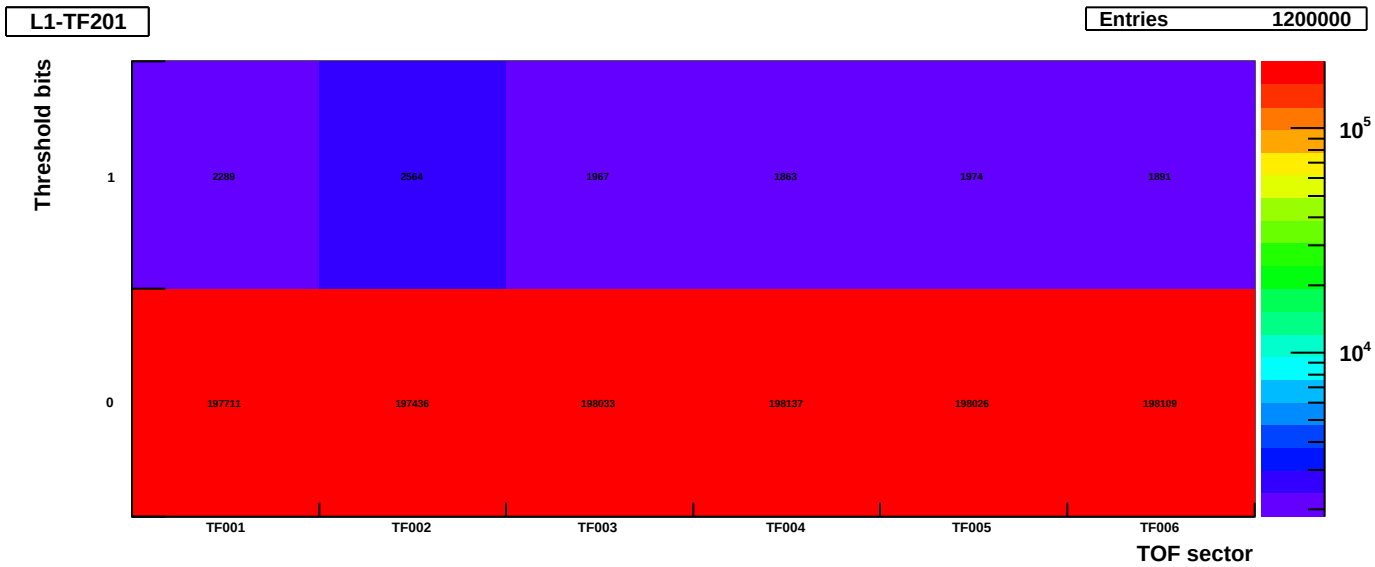

MIX-TF004
Entries 8400000
TOF MULT
TOF tray

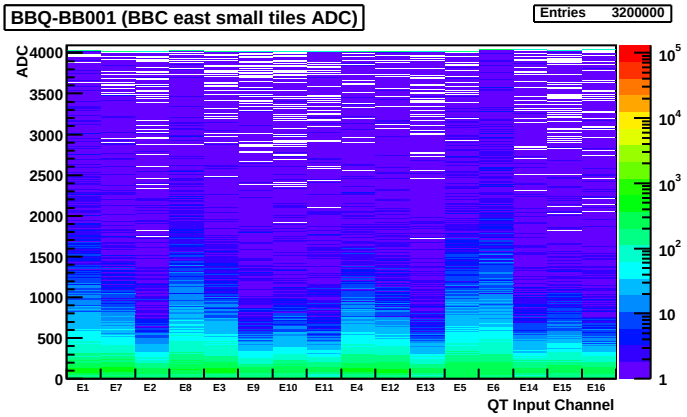

MIX-TF005
Entries 8400000
TOF MULT
TOF tray

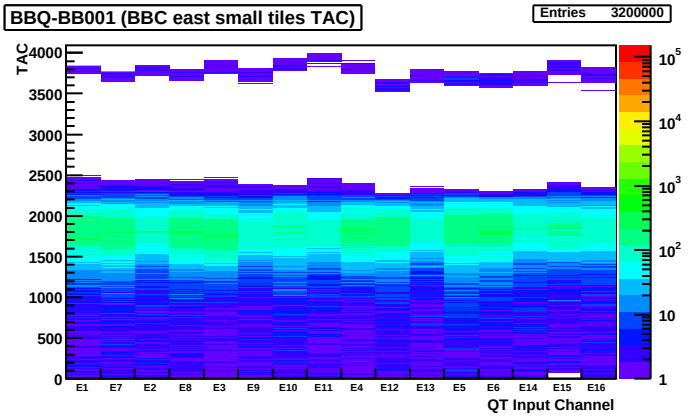

MIX-TF006
Entries 8400000
TOF MULT
TOF tray

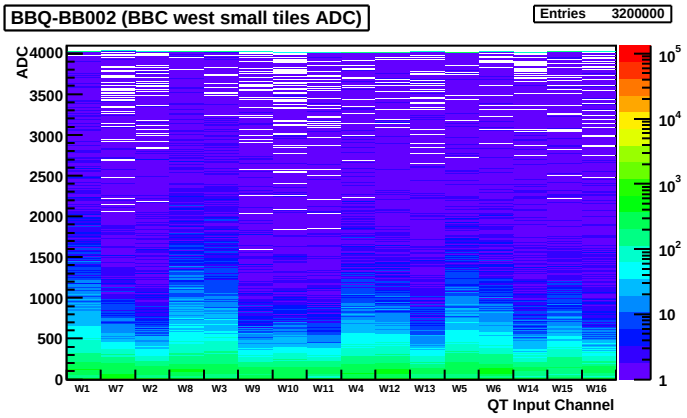

MIX-TF101
Entries 1200000
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

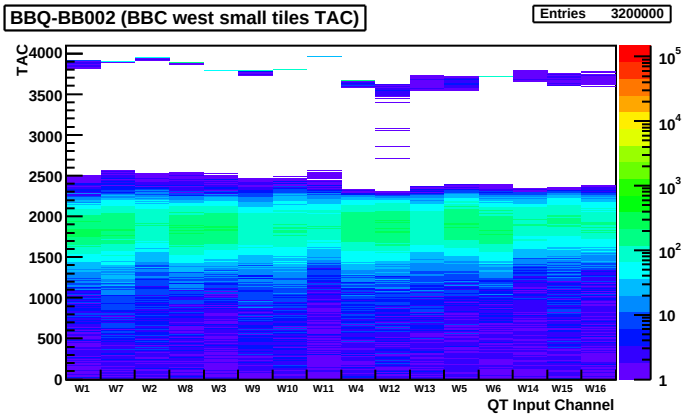

L1-TF201
Entries 200000
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

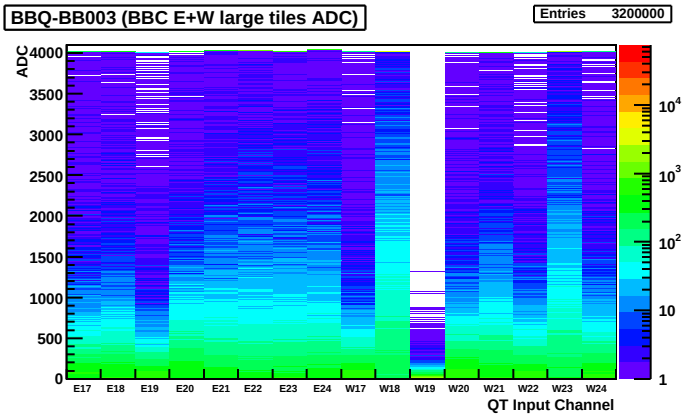

L1-TF201
Entries 1200000
Threshold bits
1
0
2289
2564
1967
1863
1974
1891
197711
197436
198033
198137
198026
198109
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4

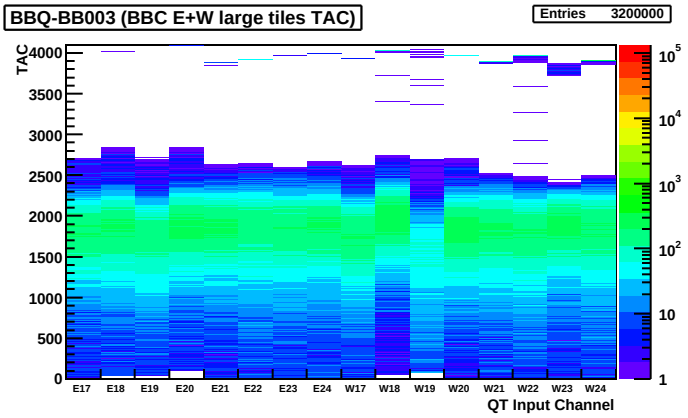

BBQ-BB001 (BBC east small tiles ADC)
Entries 3200000
ADC
QT Input Channel

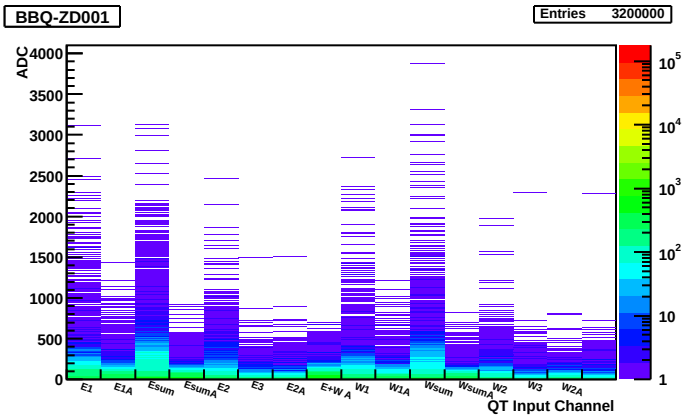

BBQ-BB001 (BBC east small tiles TAC)
Entries 3200000
TAC
QT Input Channel

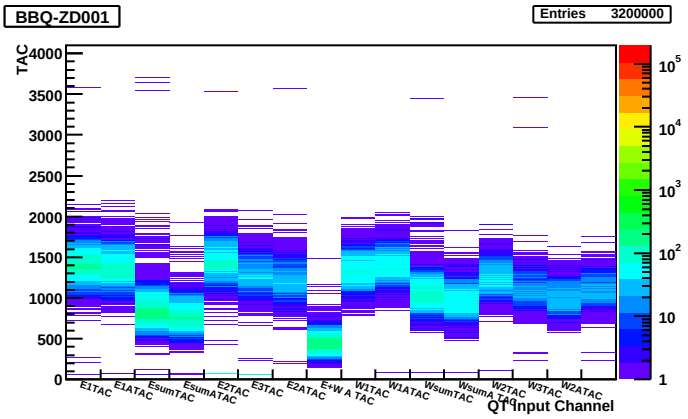

BBQ-BB002 (BBC west small tiles ADC)
Entries 3200000
ADC
QT Input Channel

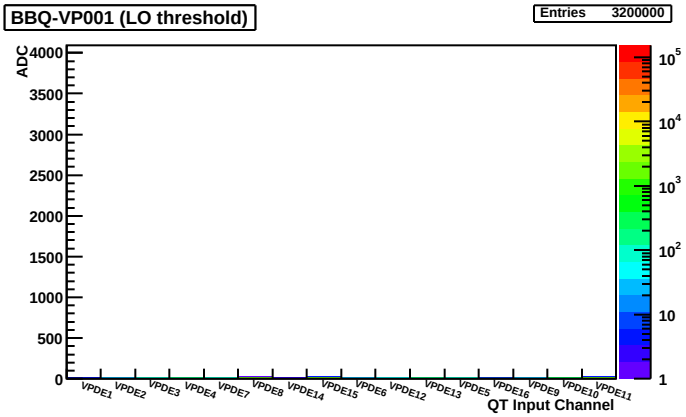

BBQ-BB002 (BBC west small tiles TAC)
Entries 3200000
TAC
QT Input Channel

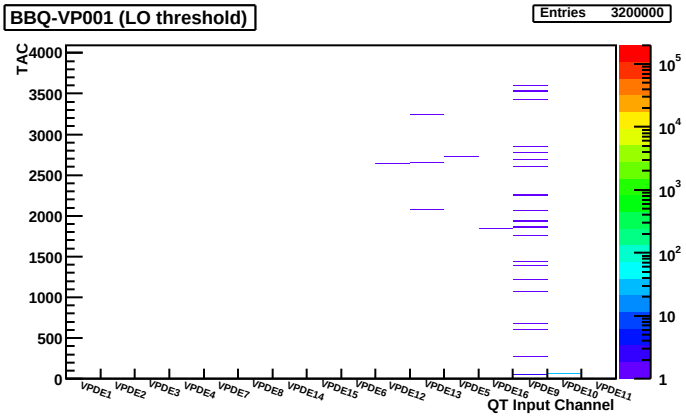

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3200000
ADC
QT Input Channel

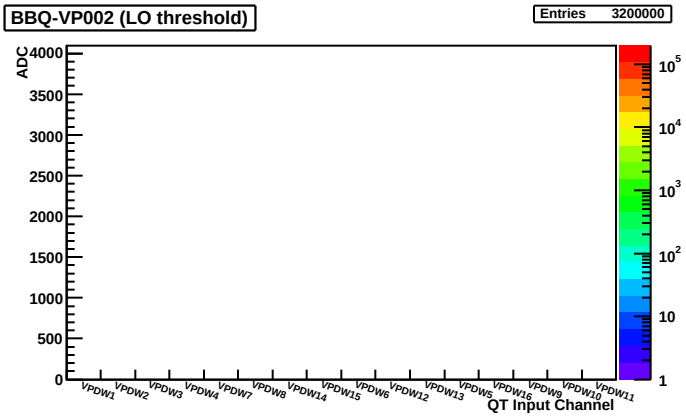

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3200000
TAC
QT Input Channel

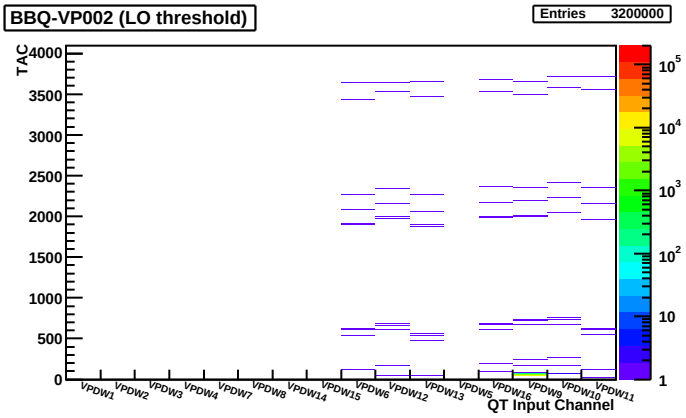

BBQ-ZD001
Entries 3200000
ADC
QT Input Channel

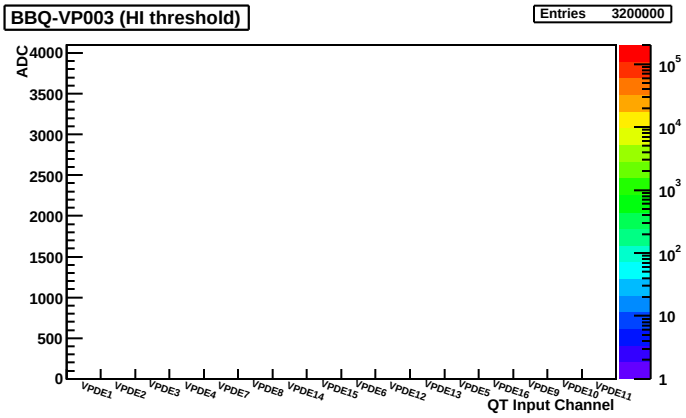

BBQ-ZD001
Entries 3200000
TAC
QT Input Channel

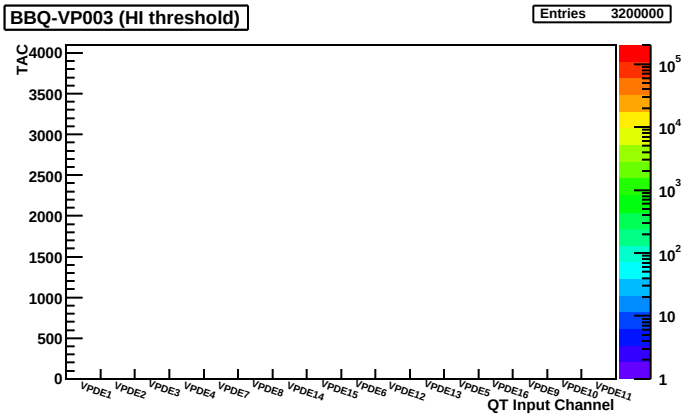

BBQ-VP001 (LO threshold)
Entries 3200000
ADC
QT Input Channel

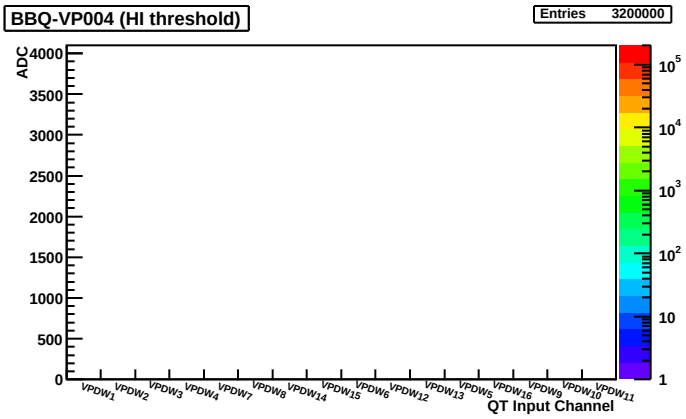

BBQ-VP001 (LO threshold)
Entries 3200000
TAC
QT Input Channel

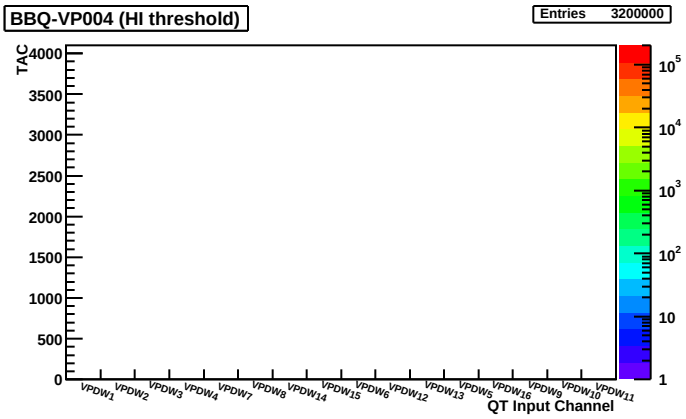

BBQ-VP002 (LO threshold)
Entries 3200000
ADC
QT Input Channel

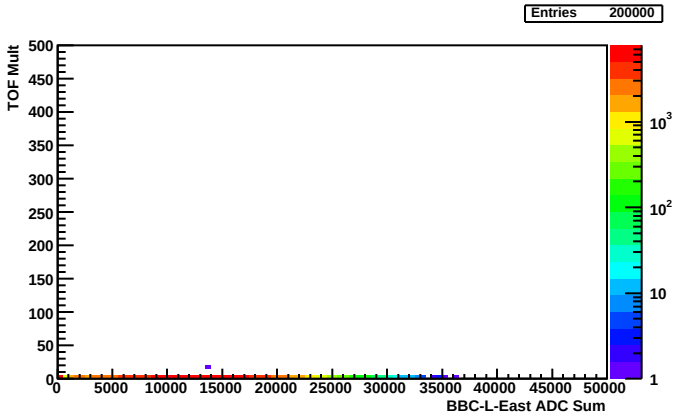

BBQ-VP002 (LO threshold)
Entries 3200000
TAC
QT Input Channel

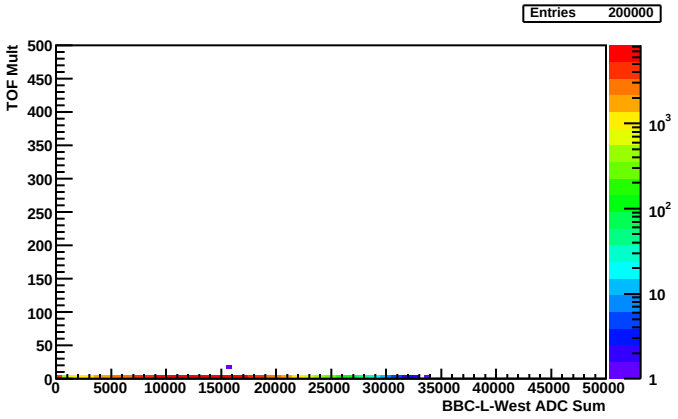

BBQ-VP003 (HI threshold)
Entries 3200000
ADC
QT Input Channel

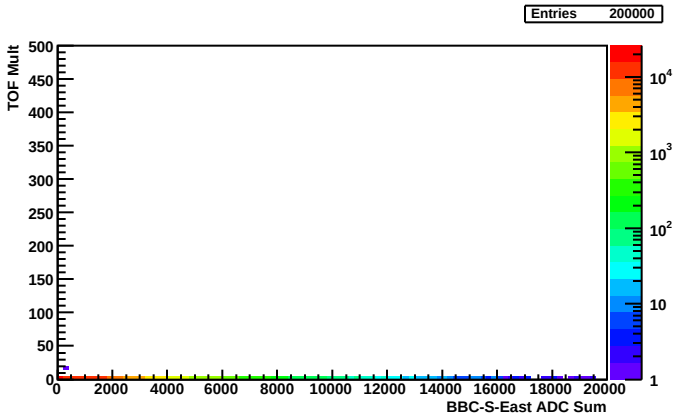

BBQ-VP003 (HI threshold)
Entries 3200000
TAC
QT Input Channel

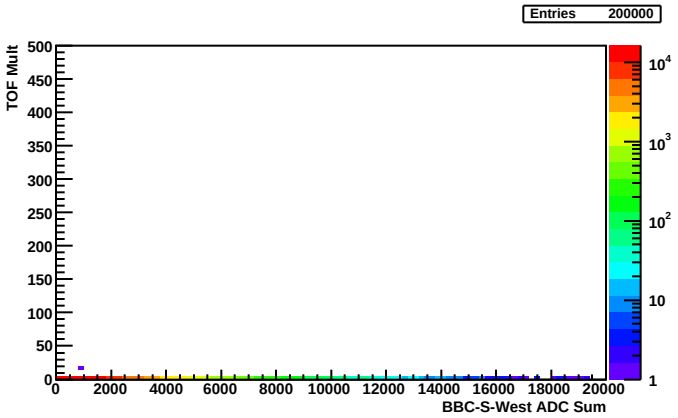

BBQ-VP004 (HI threshold)
Entries 3200000
ADC
QT Input Channel

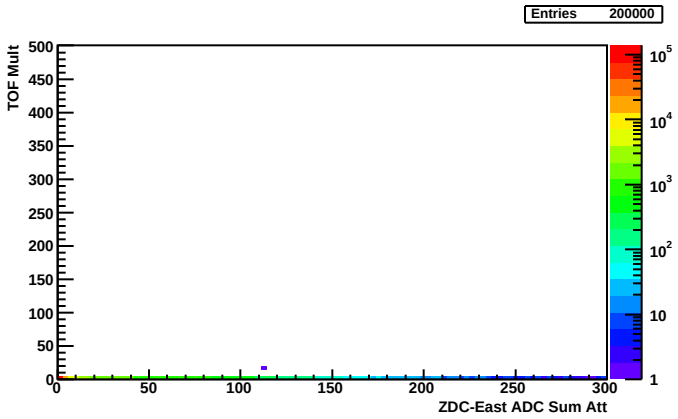

BBQ-VP004 (HI threshold)
Entries 3200000
TAC
QT Input Channel

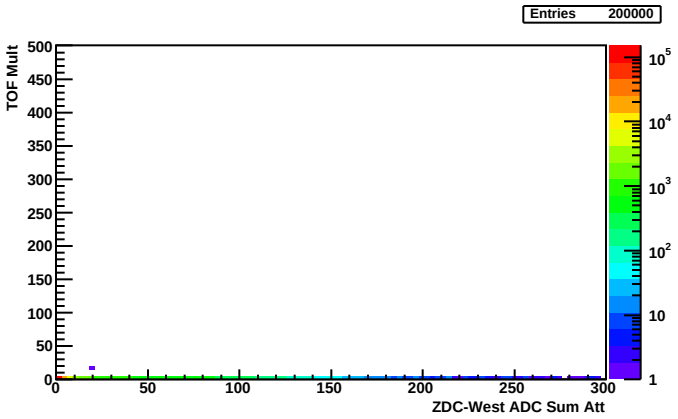

Entries 200000
TOF Mult
BBC-L-East ADC Sum

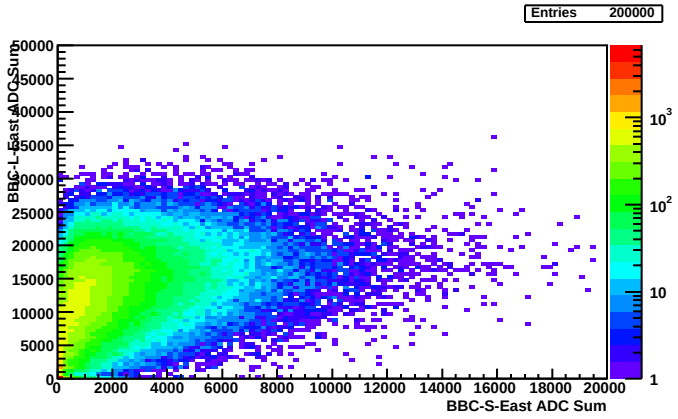

Entries 200000
TOF Mult
BBC-L-West ADC Sum

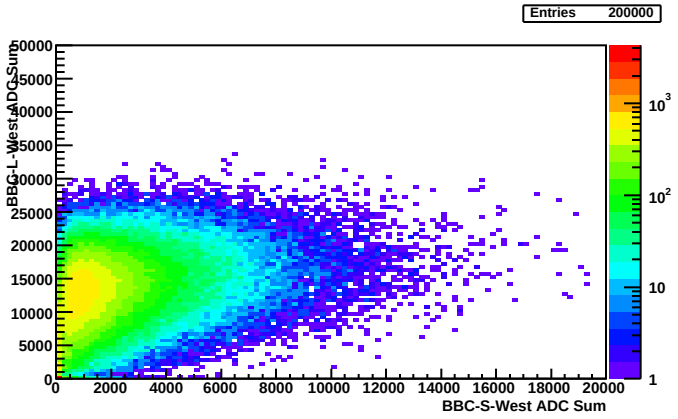

Entries 200000
TOF Mult
BBC-S-East ADC Sum

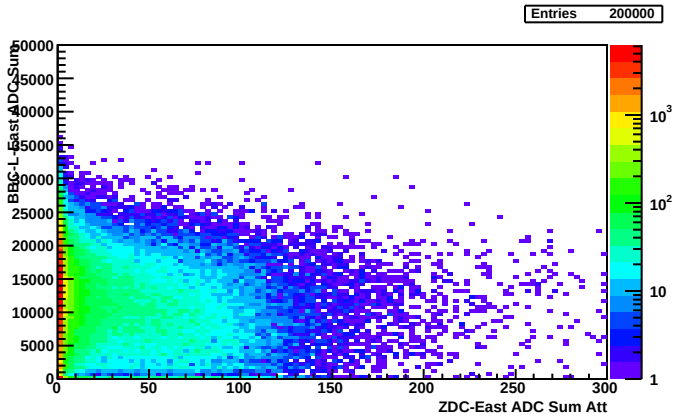

Entries 200000
TOF Mult
BBC-S-West ADC Sum

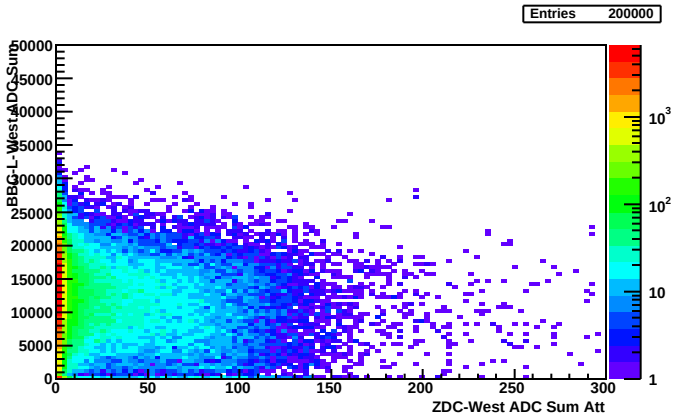

Entries 200000
TOF Mult
ZDC-East ADC Sum Att

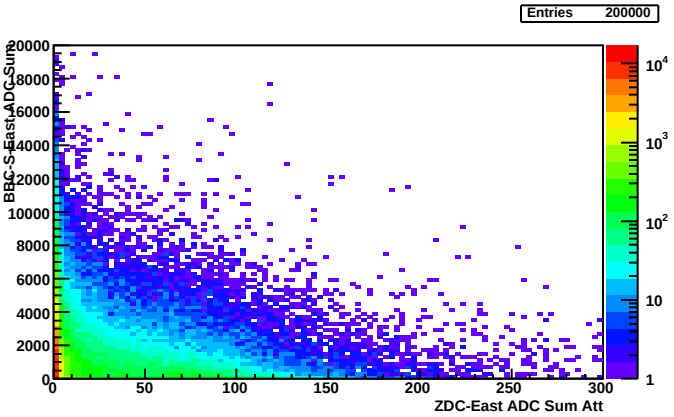

Entries 200000
TOF Mult
ZDC-West ADC Sum Att

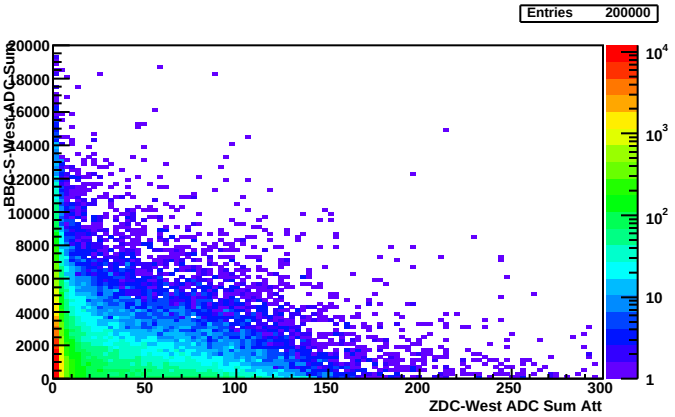

Entries 200000
BBC-L-East ADC Sum
BBC-S-East ADC Sum

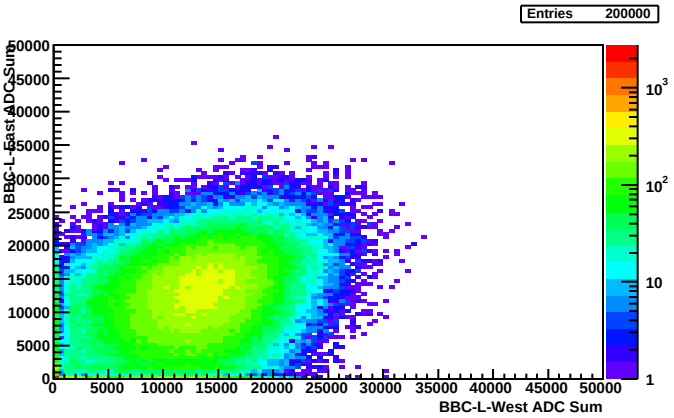

Entries 200000
BBC-L-West ADC Sum
BBC-S-West ADC Sum

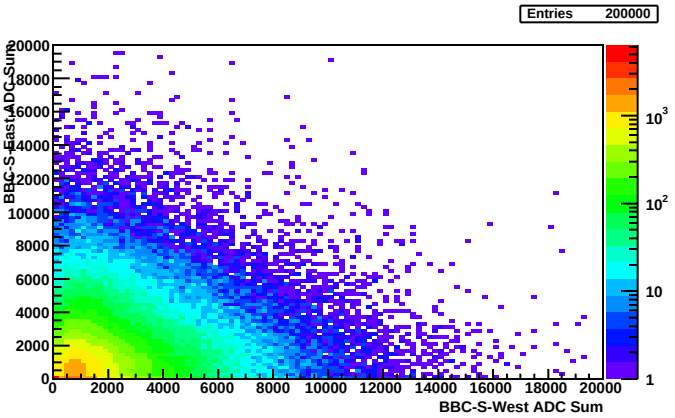

Entries 200000
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

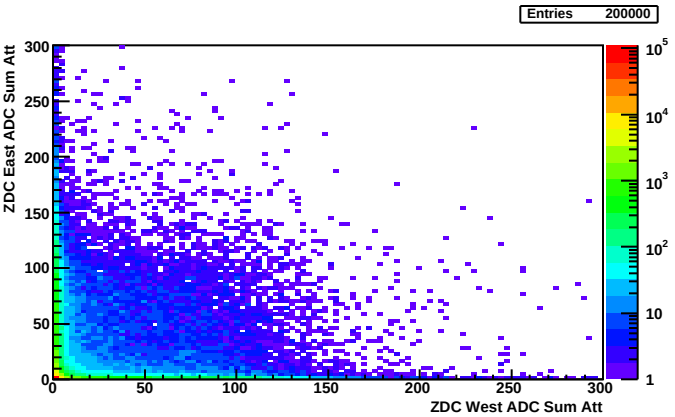

Entries 200000
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

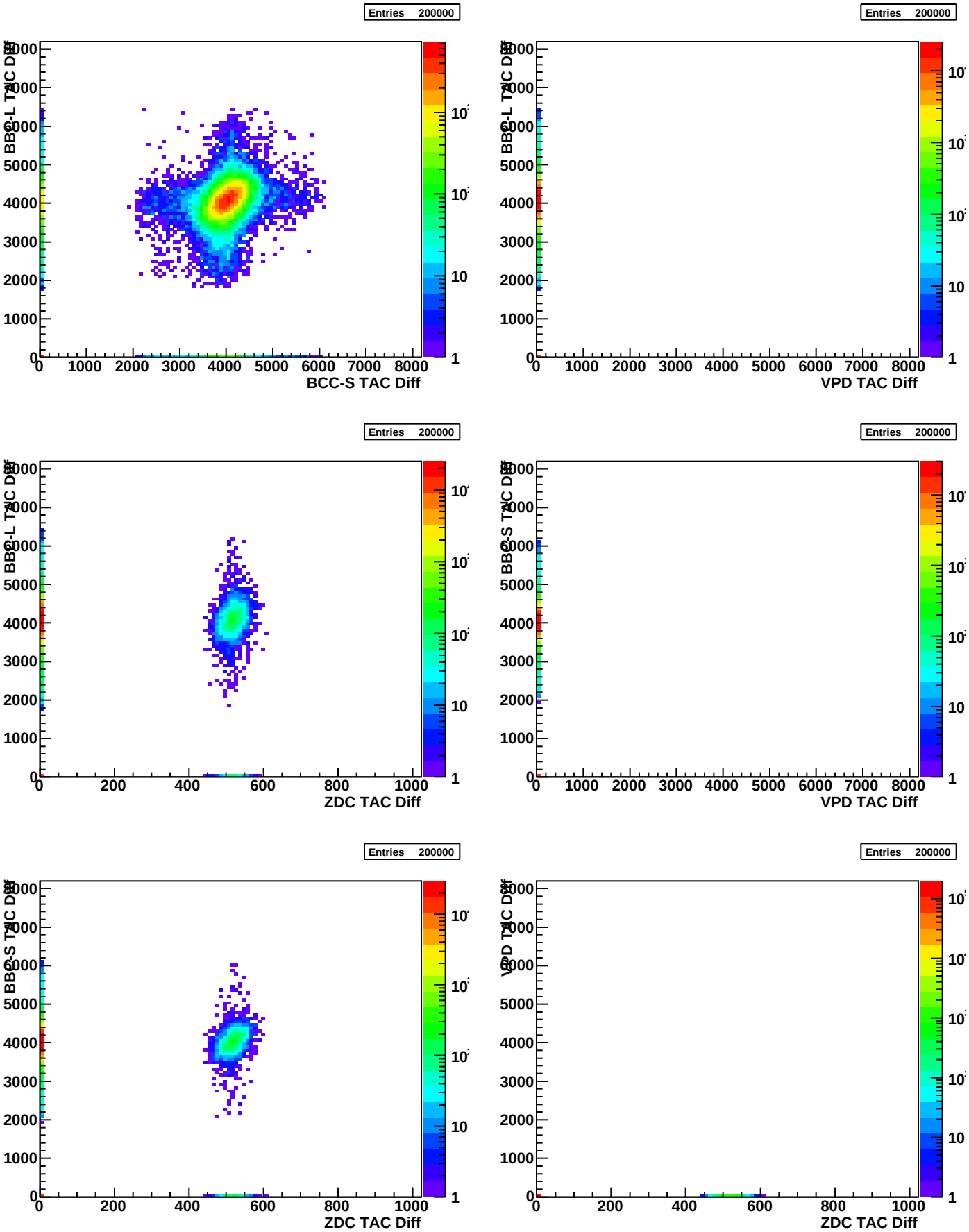

Entries 200000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

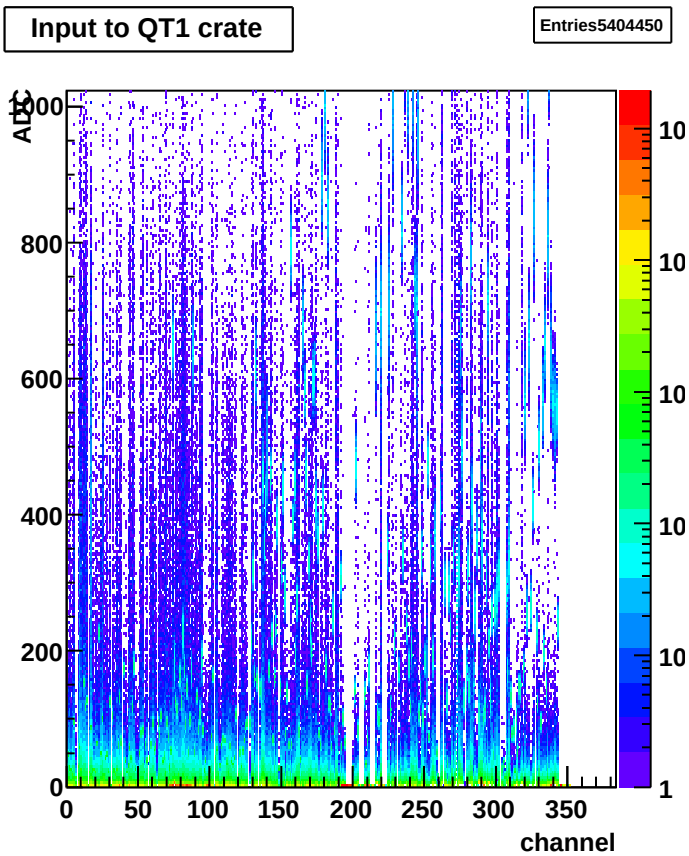

Entries 200000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

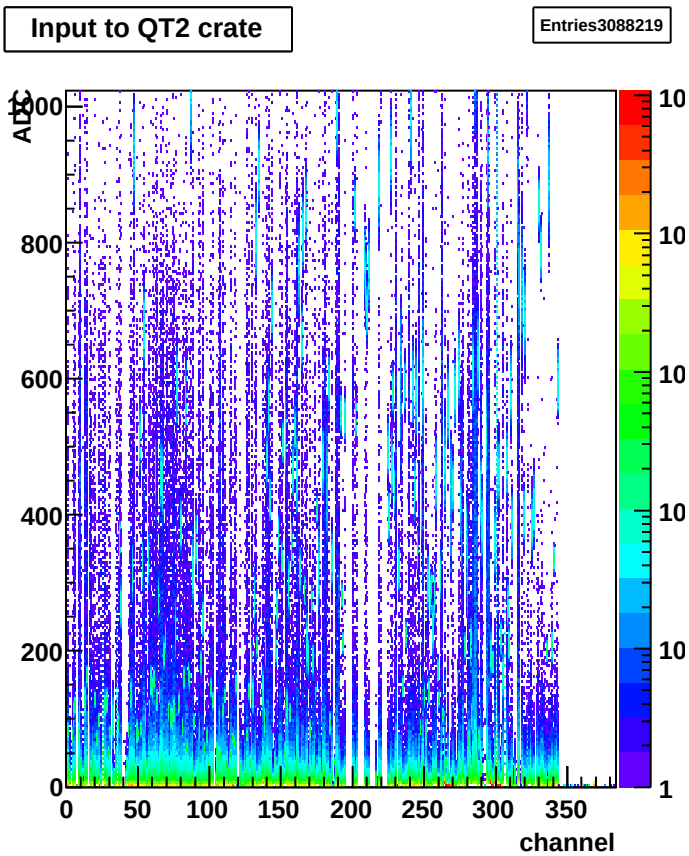

Entries 200000
BBC-L-East ADC Sum
BBC-L-West ADC Sum

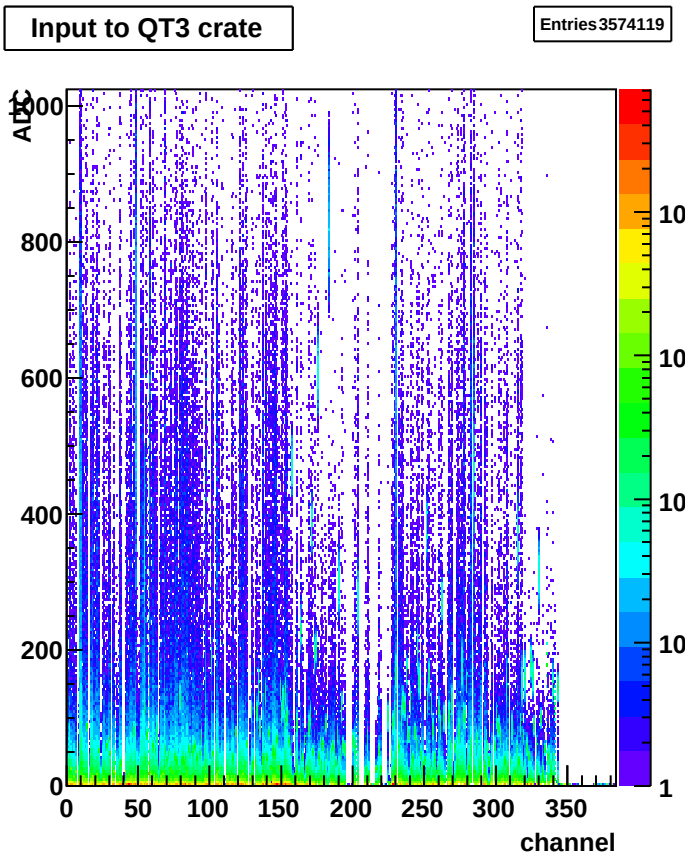

Entries 200000
BBC-S-East ADC Sum
BBC-S-West ADC Sum

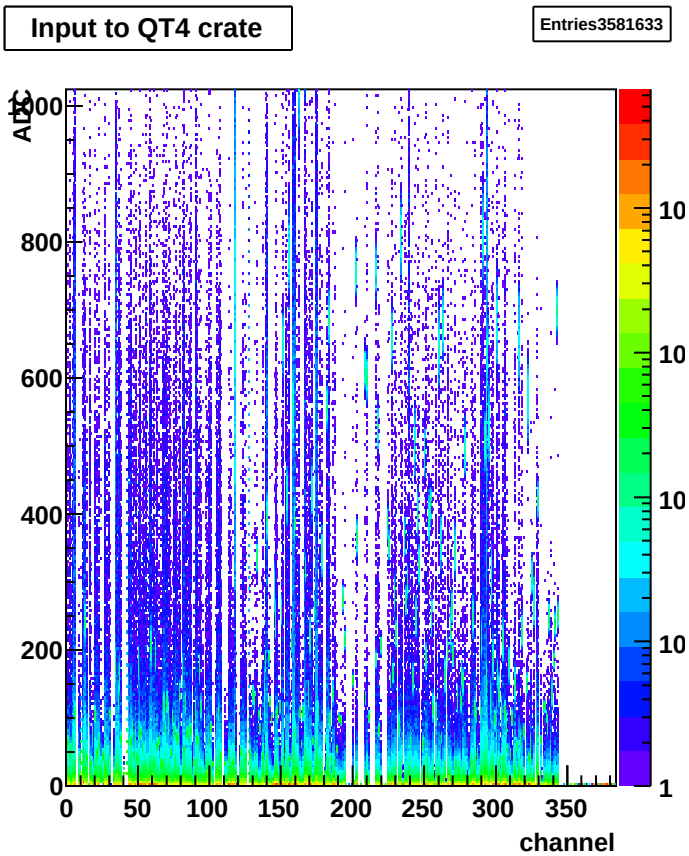

Entries 200000
ZDC East ADC Sum Att
ZDC West ADC Sum Att

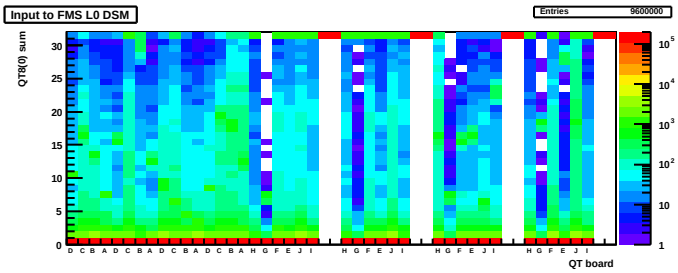

Entries 200000
BBC-L TAC Diff
BCC-S TAC Diff
Entries 200000
BBC-L TAC Diff
VPD TAC Diff
Entries 200000
BBC-L TAC Diff
ZDC TAC Diff
Entries 200000
BBC-S TAC Diff
VPD TAC Diff
Entries 200000
BBC-S TAC Diff
ZDC TAC Diff
Entries 200000
VPD TAC Diff
ZDC TAC Diff

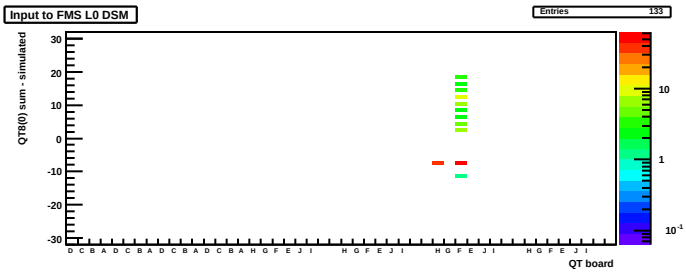

Input to QT1 crate
Entries5404450
ADC
channel

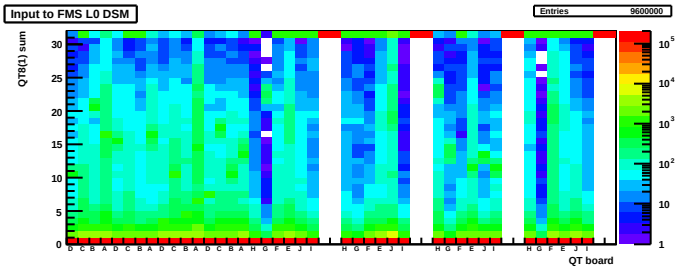

Input to QT2 crate
Entries3088219
ADC
channel

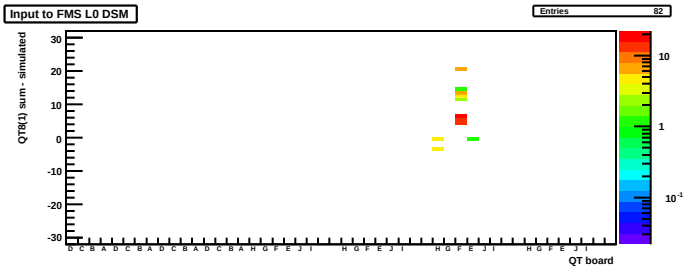

Input to QT3 crate
Entries3574119
ADC
channel

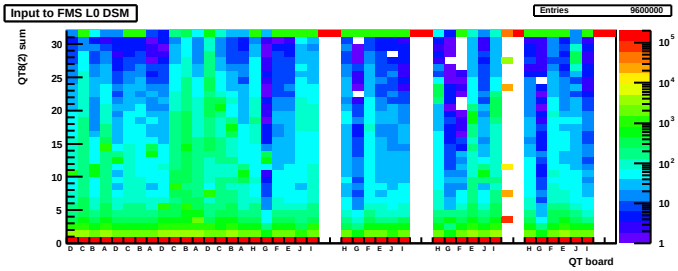

Input to QT4 crate
Entries3581633
ADC
channel

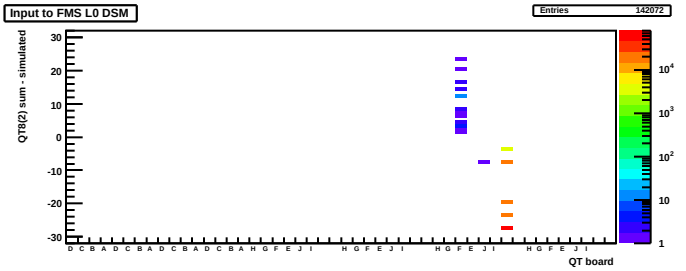

Input to FMS L0 DSM
Entries 9600000
QT8(0) sum
QT board

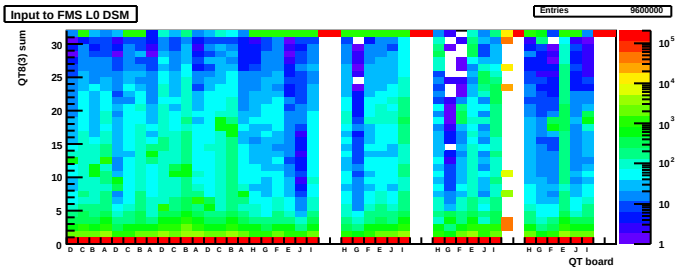

Input to FMS L0 DSM
Entries 133
QT8(0) sum - simulated
QT board

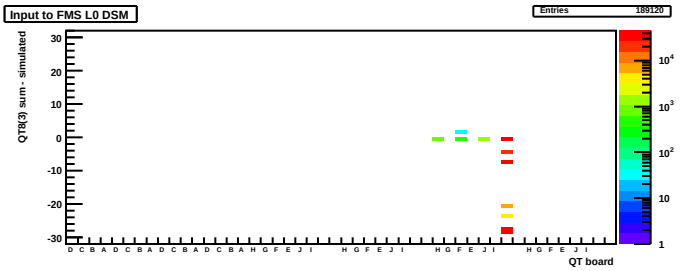

Input to FMS L0 DSM
Entries 9600000
QT8(1) sum
QT board

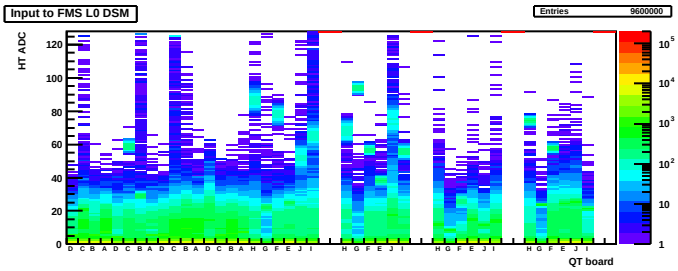

Input to FMS L0 DSM
Entries 82
QT8(1) sum - simulated
QT board

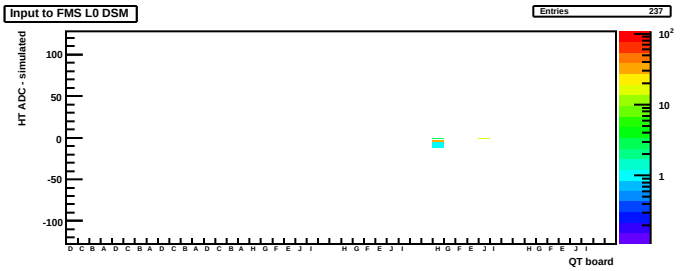

Input to FMS L0 DSM
Entries 9600000
QT8(2) sum
QT board

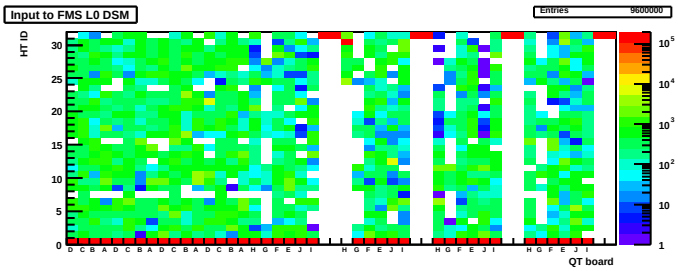

Input to FMS L0 DSM
Entries 142072
QT8(2) sum - simulated
QT board

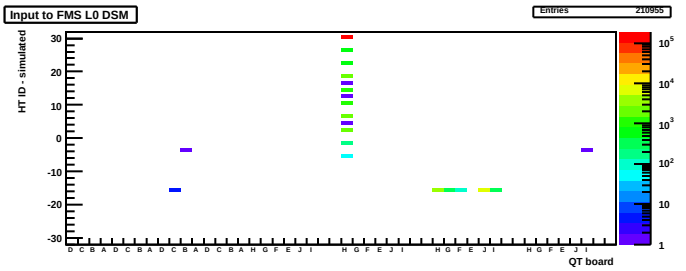

Input to FMS L0 DSM
Entries 9600000
QT8(3) sum
QT board

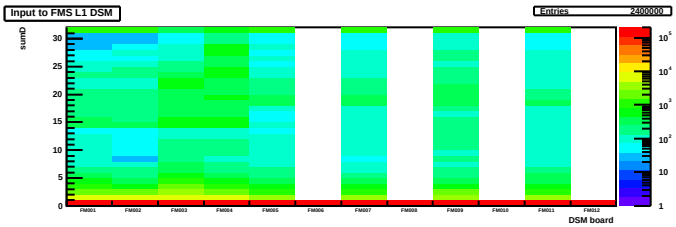

Input to FMS L0 DSM
Entries 189120
QT8(3) sum - simulated
QT board

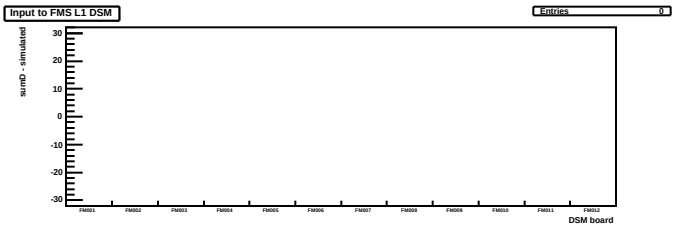

Input to FMS L0 DSM
Entries 9600000
HT ADC
QT board

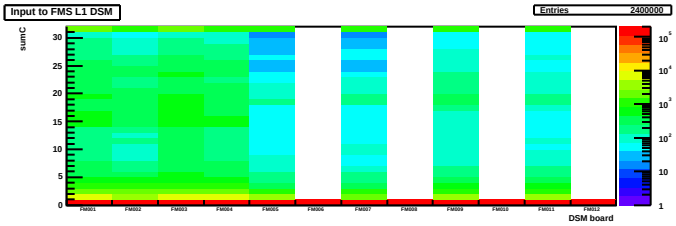

Input to FMS L0 DSM
Entries 237
HT ADC - simulated
QT board

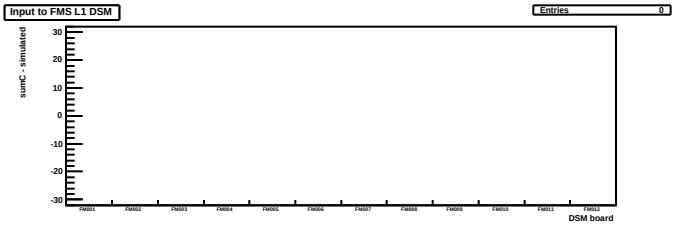

Input to FMS L0 DSM
Entries 9600000
HT ID
QT board

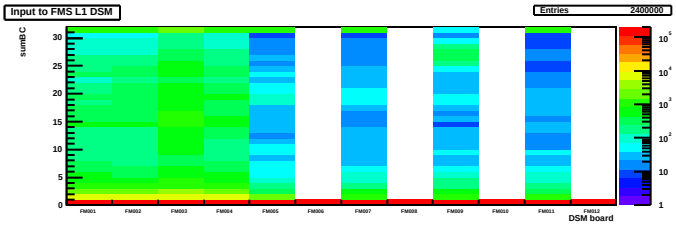

Input to FMS L0 DSM
Entries 210955
HT ID - simulated
QT board

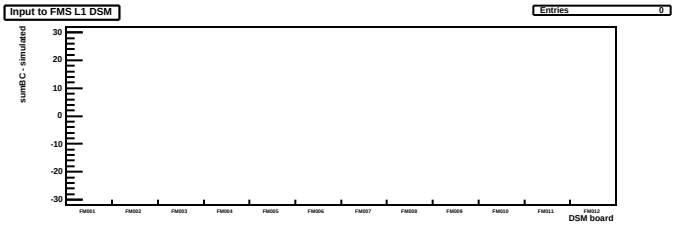

Input to FMS L1 DSM
Entries 2400000
sumD
DSM board

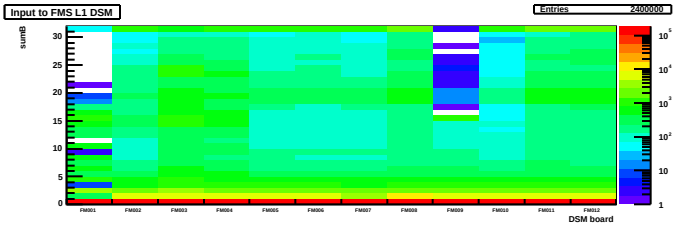

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

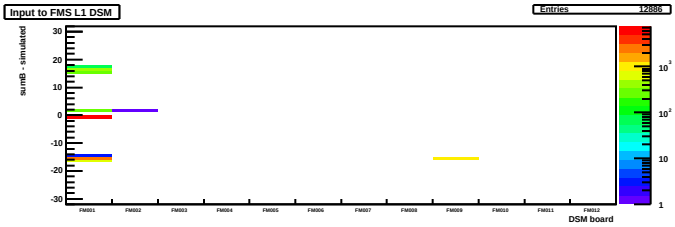

Input to FMS L1 DSM
Entries 2400000
sumC
DSM board

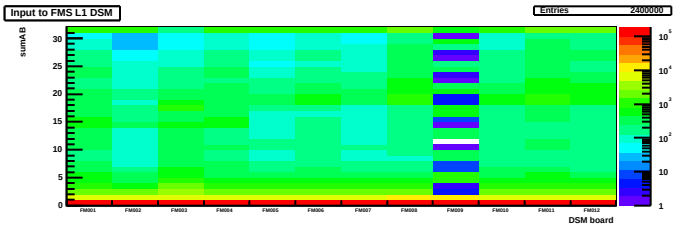

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

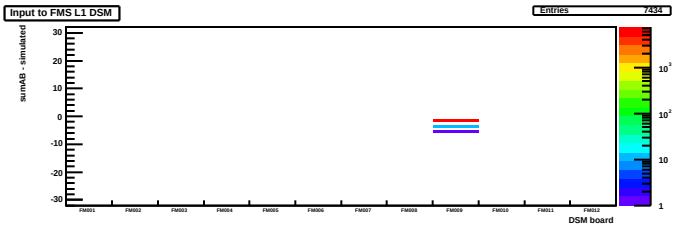

Input to FMS L1 DSM
Entries 2400000
sumBC
DSM board

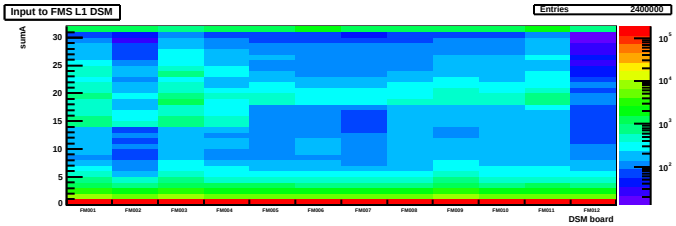

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

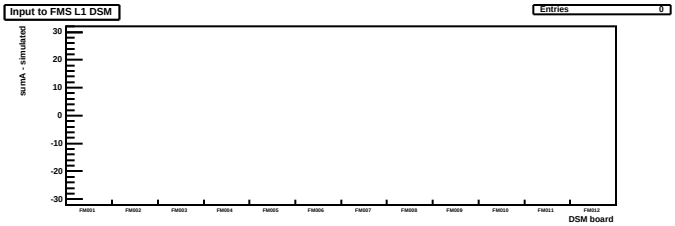

Input to FMS L1 DSM
Entries 2400000
sumB
DSM board

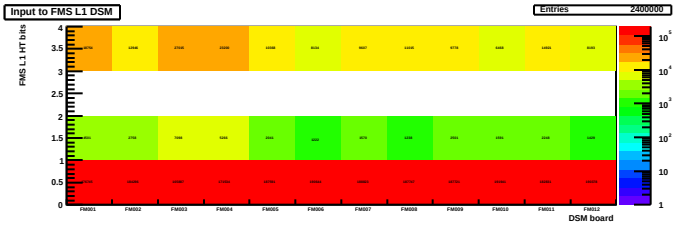

Input to FMS L1 DSM
Entries 12886
sumB - simulated
DSM board

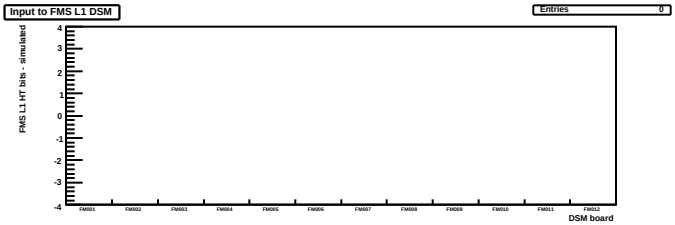

Input to FMS L1 DSM
Entries 2400000
sumAB
DSM board

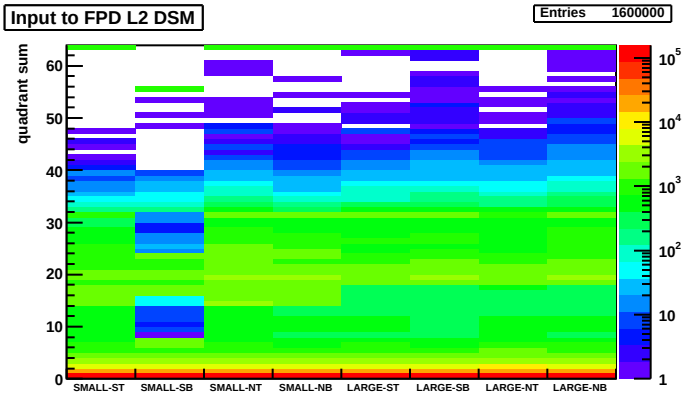

Input to FMS L1 DSM
Entries 7434
sumAB - simulated
DSM board

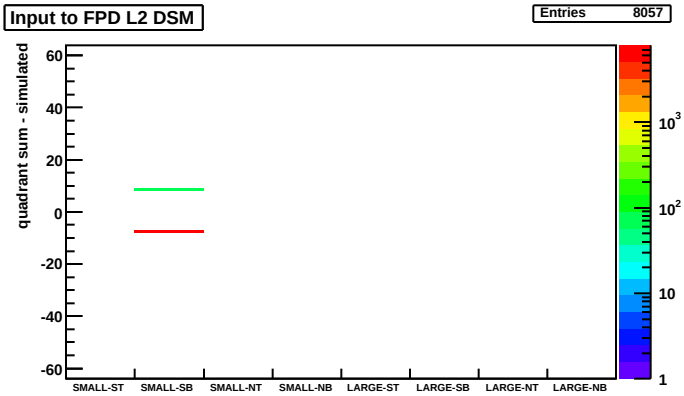

Input to FMS L1 DSM
Entries 2400000
sumA
DSM board

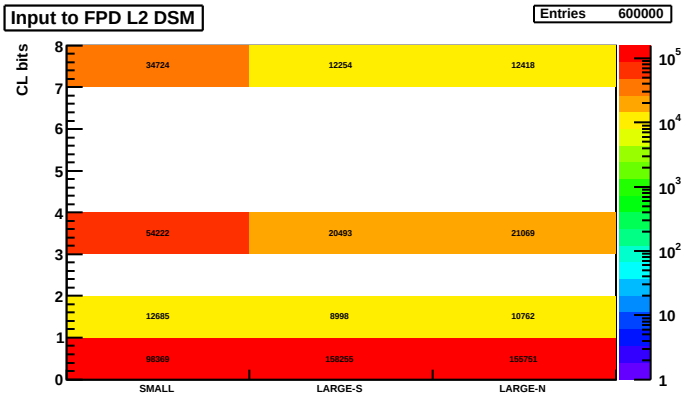

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

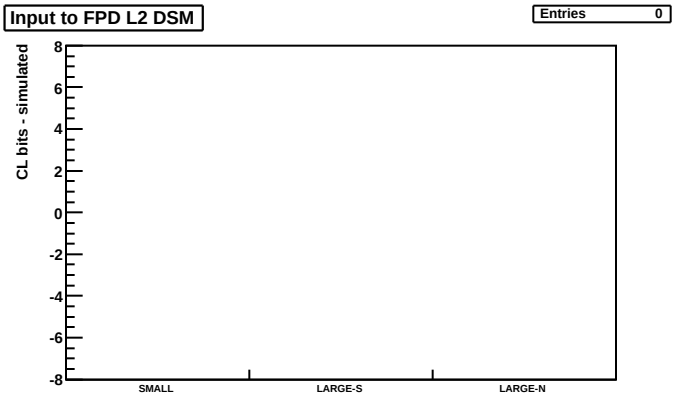

Input to FMS L1 DSM
Entries 2400000
FMS L1 HT bits
DSM board

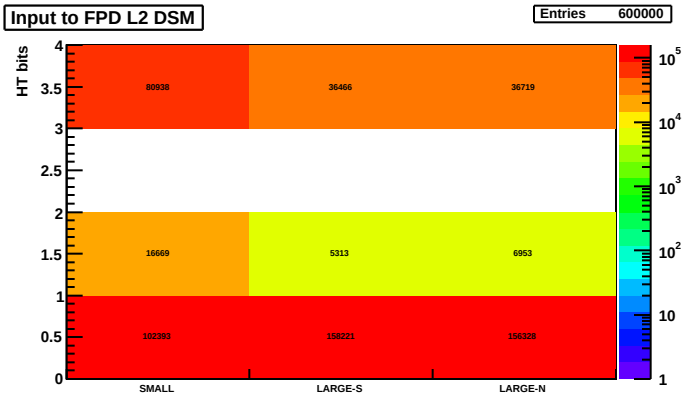

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

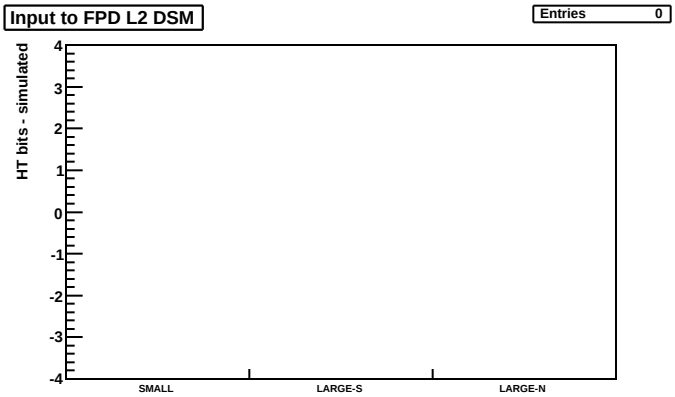

Input to FPD L2 DSM
Entries 1600000
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

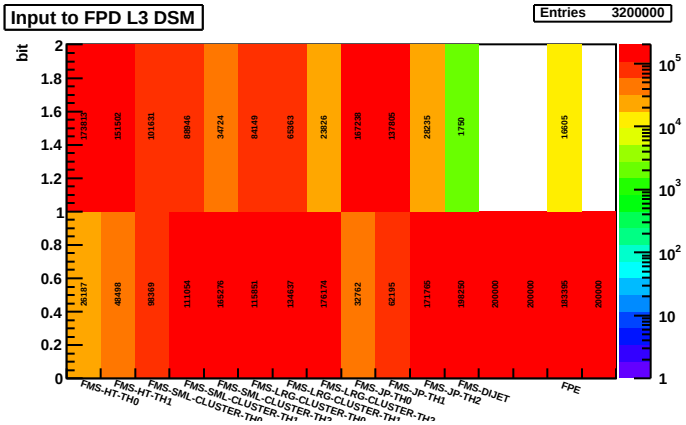

Input to FPD L2 DSM
Entries 8057
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

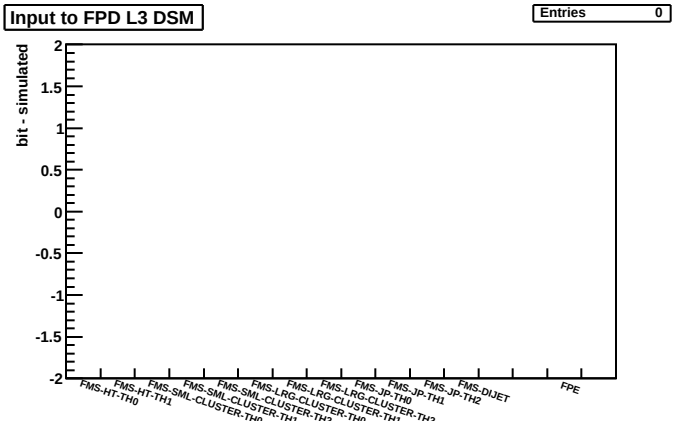

Input to FPD L2 DSM
Entries 600000
CL bits
34724
12254
12418
54222
20493
21069
12685
8998
10762
98369
158255
155751
SMALL
LARGE-S
LARGE-N

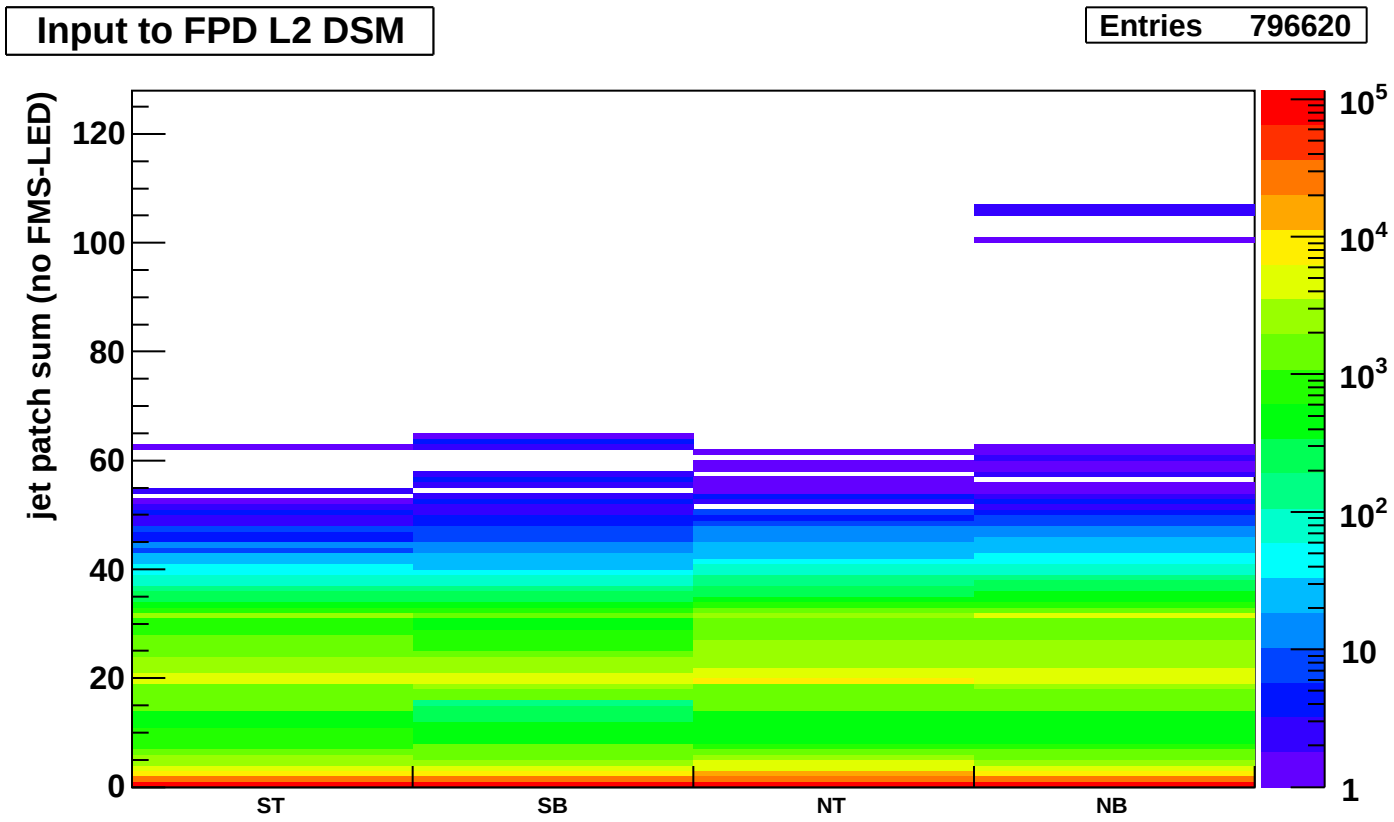

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

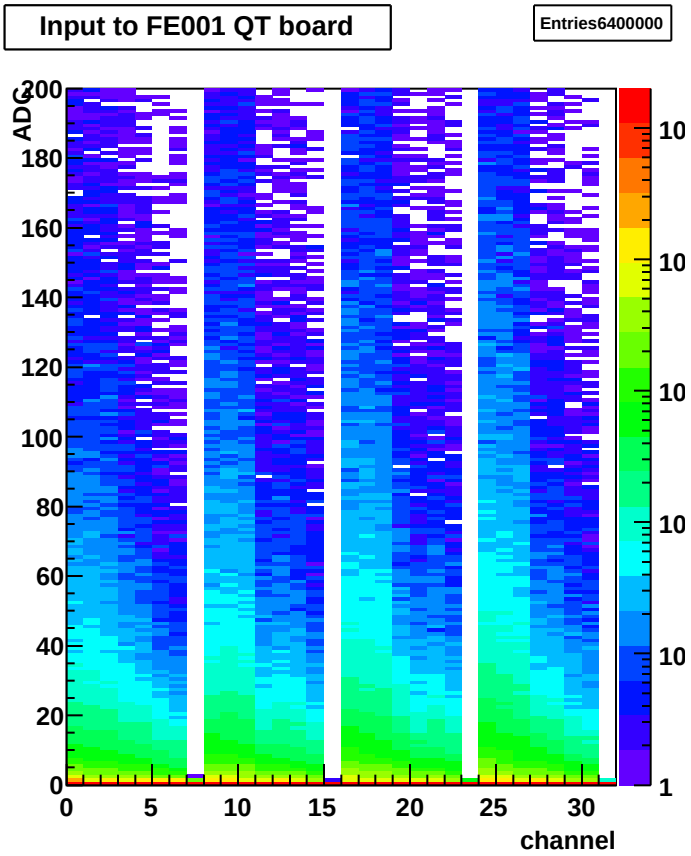

Input to FPD L2 DSM
Entries 600000
HT bits
80938
36466
36719
16669
5313
6953
102393
158221
156328
SMALL
LARGE-S
LARGE-N

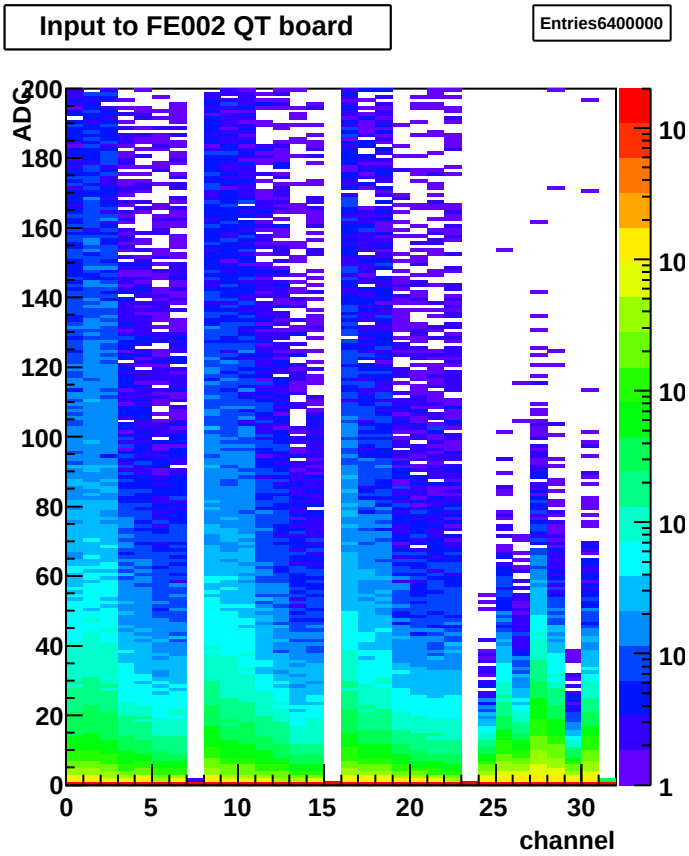

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

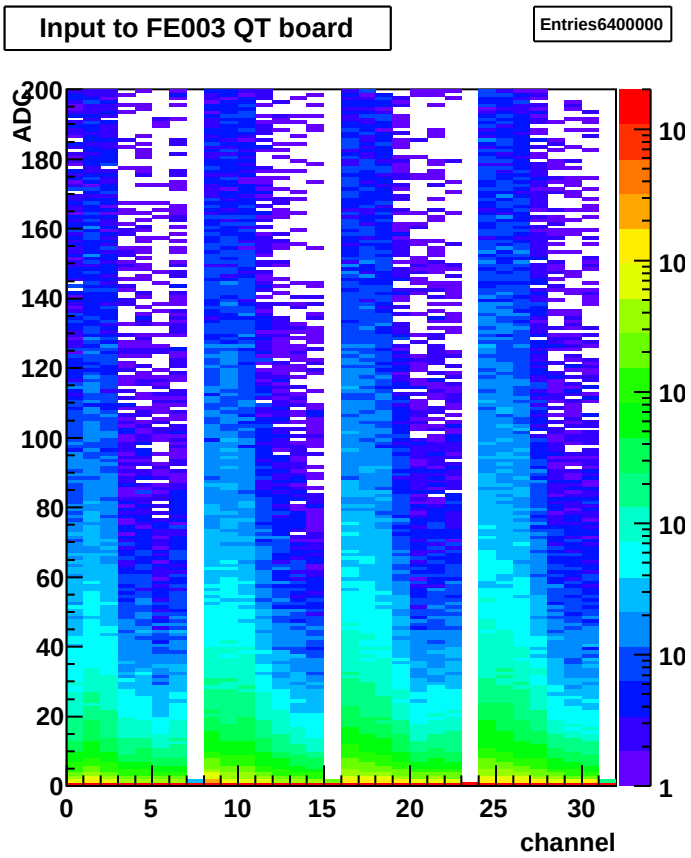

Input to FPD L3 DSM
Entries 3200000
bit
173613
151502
101631
88946
34724
84149
65953
23826
167238
137805
28235
1790
16605
25187
48498
98369
111054
165276
115851
134637
176174
32762
62185
171765
198250
200000
200000
183395
200000
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

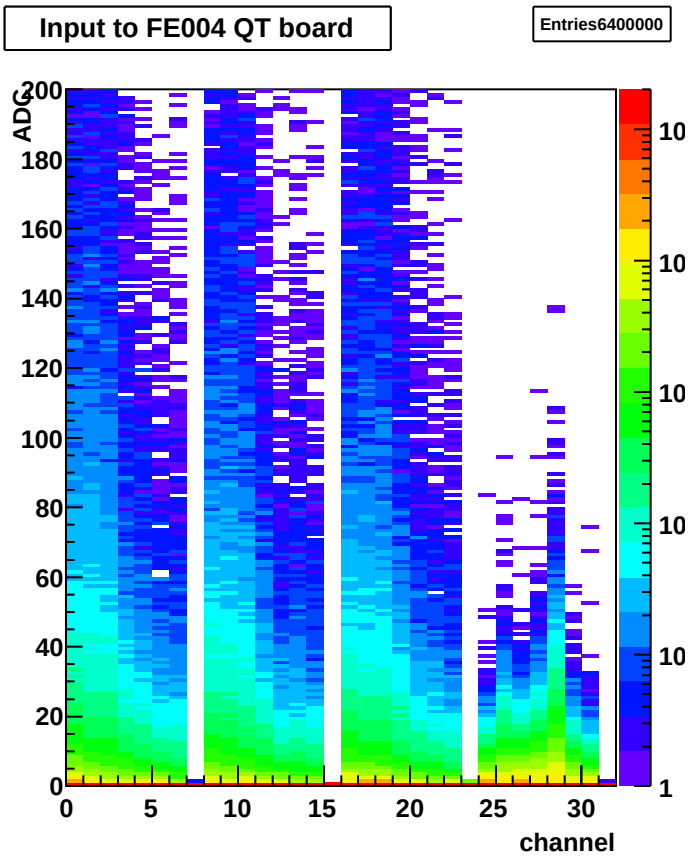

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

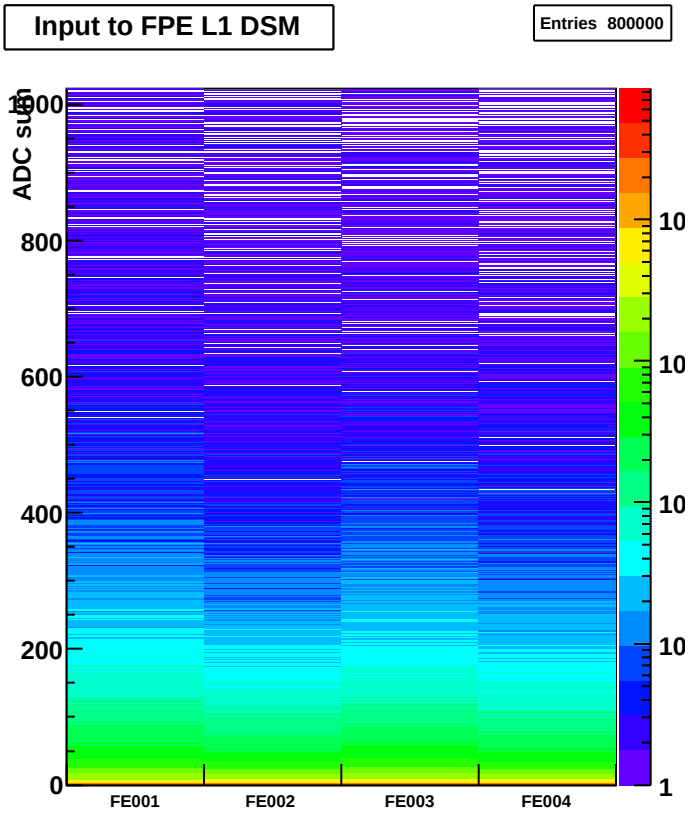

Input to FPD L2 DSM
Entries 796620
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

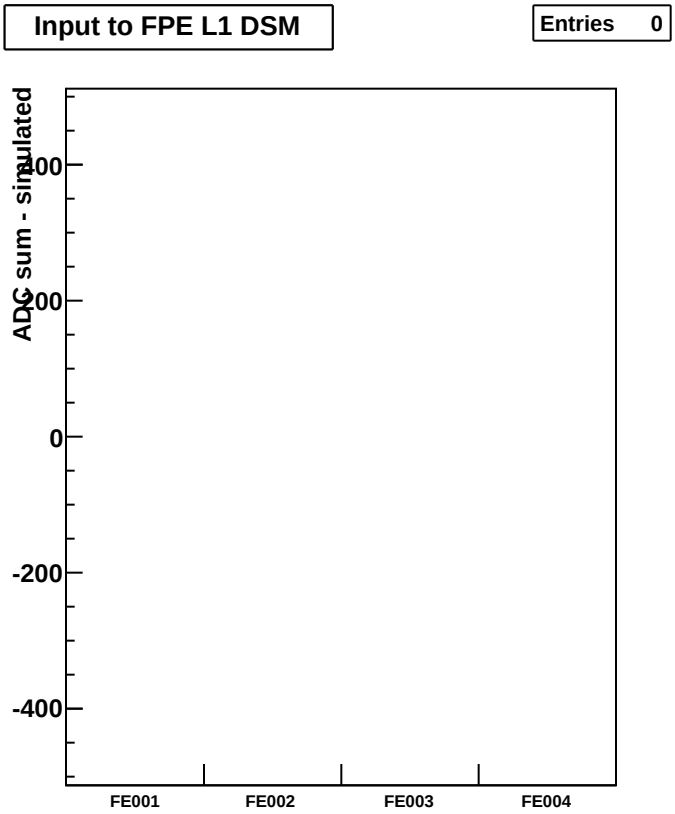

Input to FE001 QT board
Entries6400000
ADC
channel

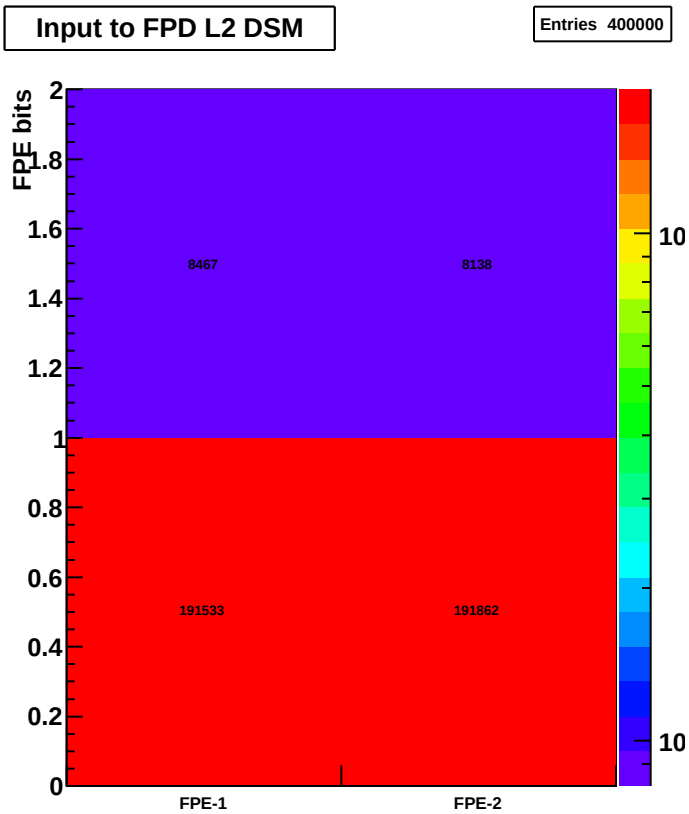

Input to FE002 QT board
Entries6400000
ADC
channel

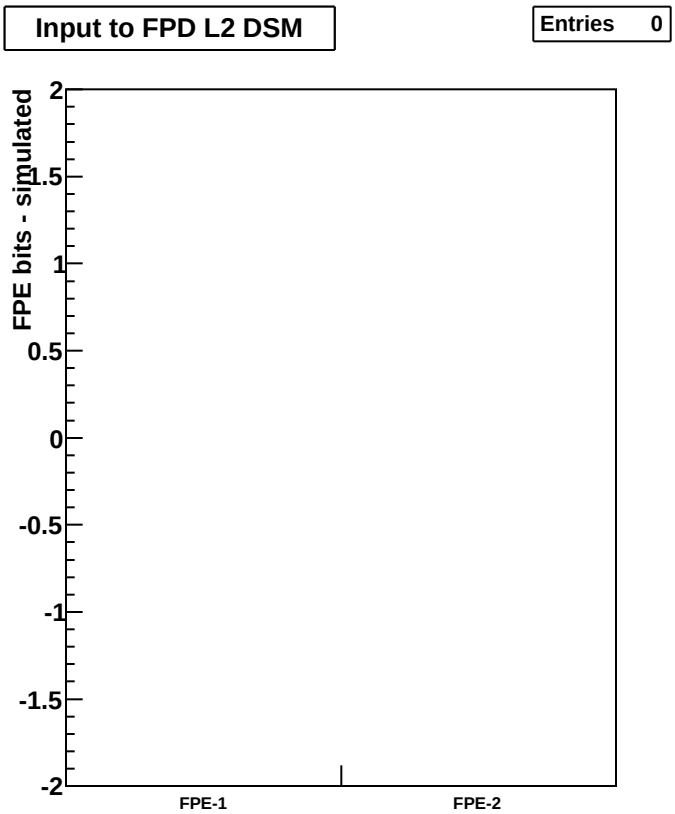

Input to FE003 QT board
Entries6400000
ADC
channel


Input to FE004 QT board
Entries6400000
ADC
channel


Input to FPE L1 DSM
Entries 800000
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
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
Entries 400000
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
8467
8138
191533
191862
FPE-1
FPE-2
10
10
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