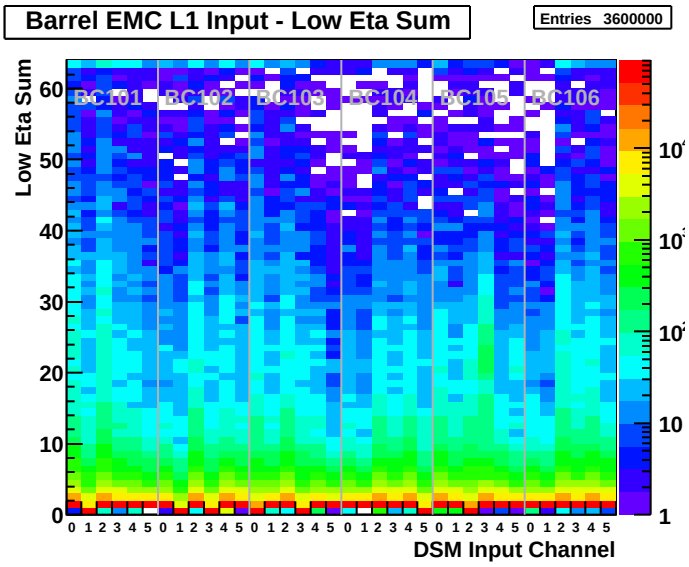
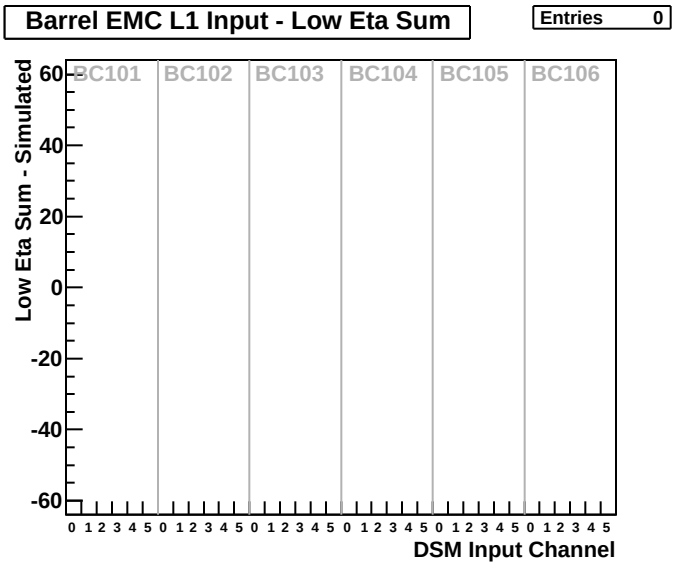
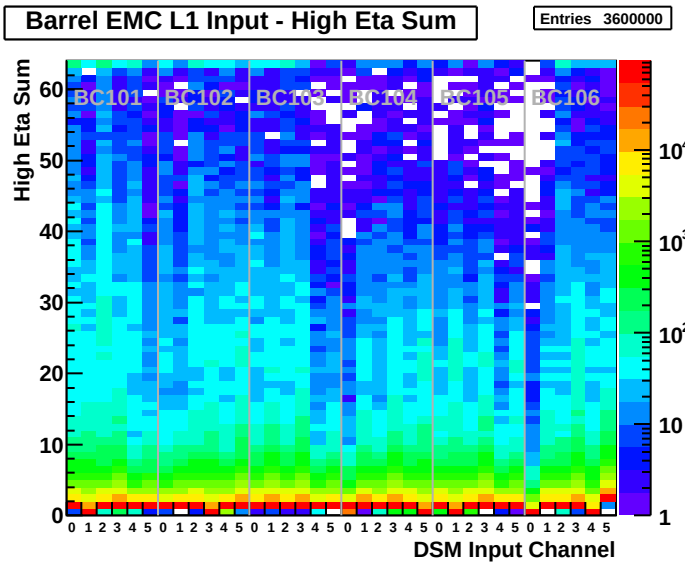
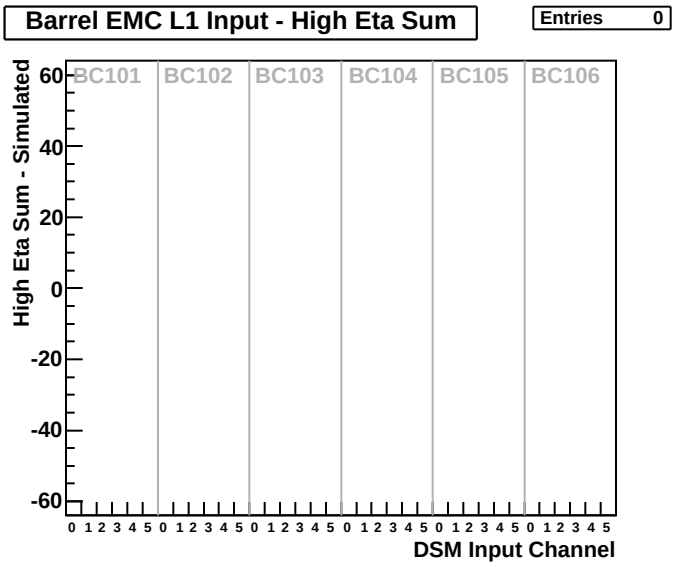
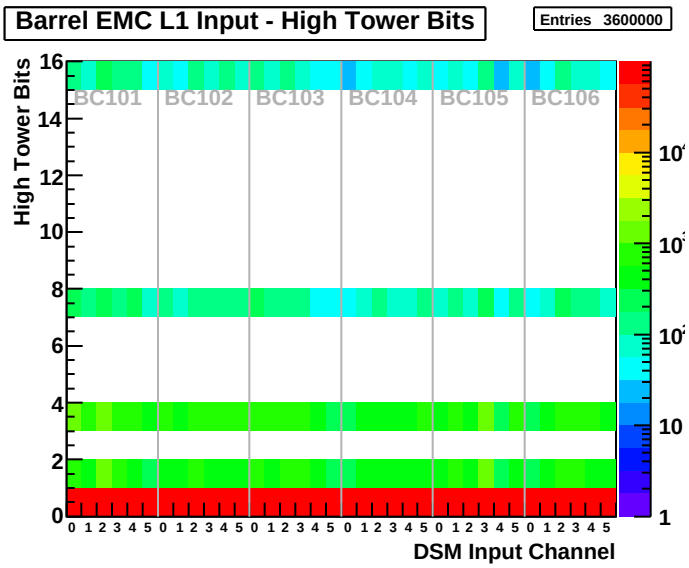
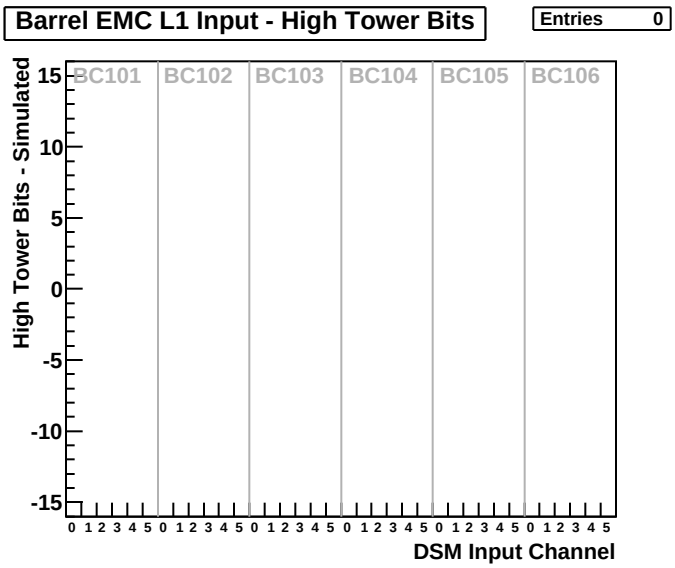

Barrel EMC L1 Input - Low Eta Sum
Entries 3600000
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

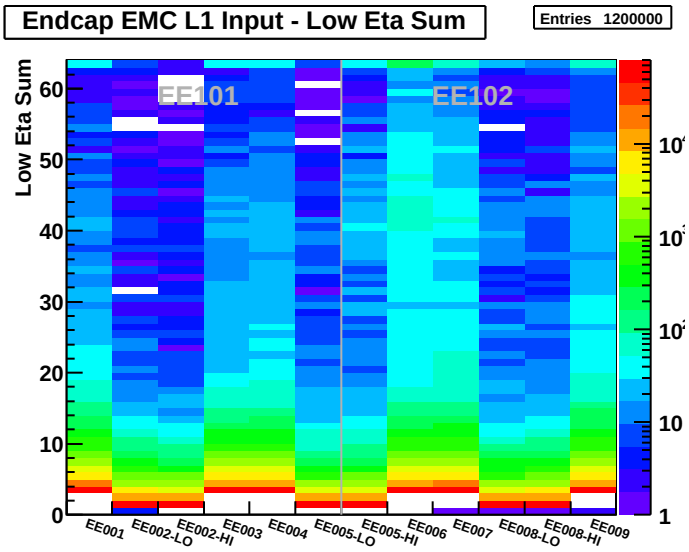

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

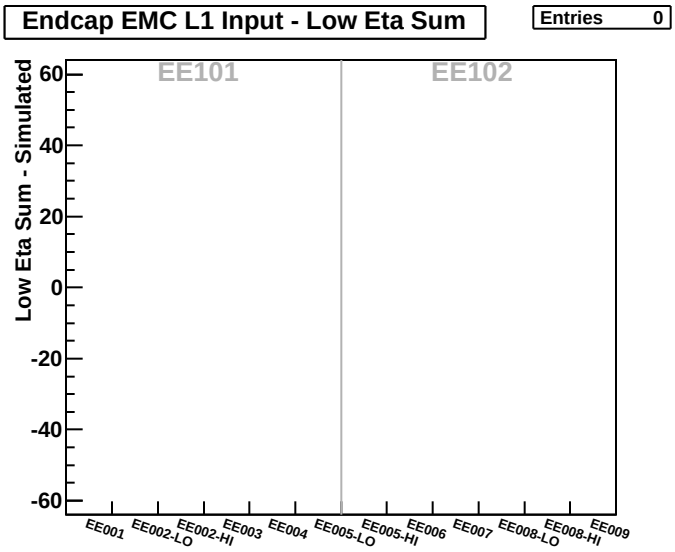

Barrel EMC L1 Input - High Eta Sum
Entries 3600000
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

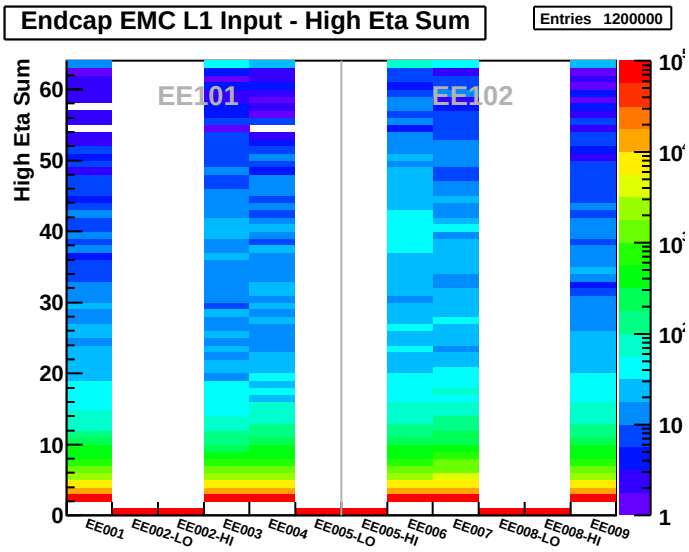

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

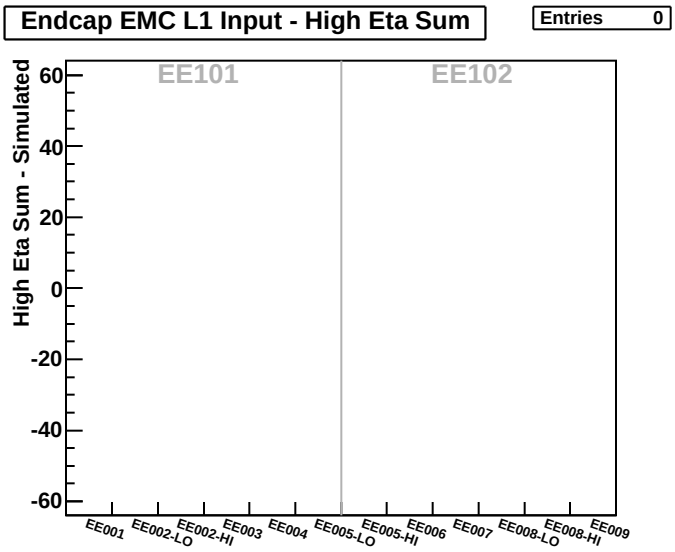

Barrel EMC L1 Input - High Tower Bits
Entries 3600000
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

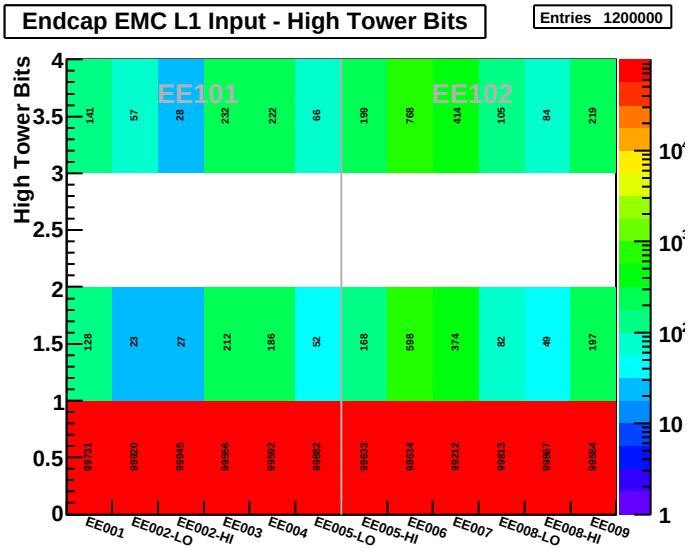

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

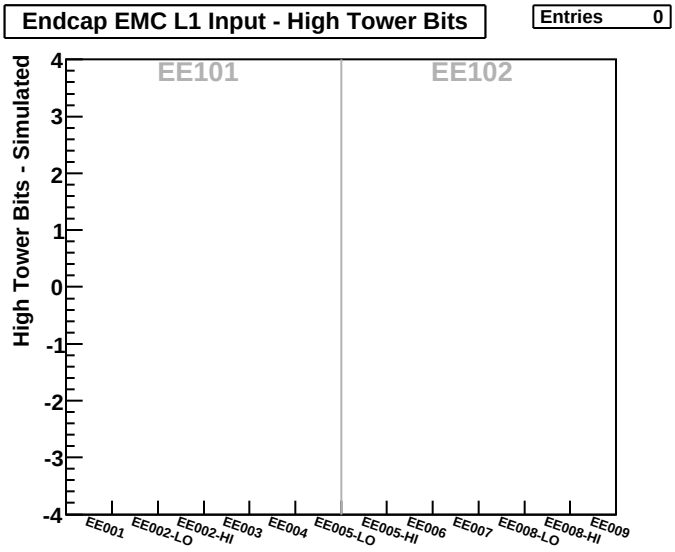

Endcap EMC L1 Input - Low Eta Sum
Entries 1200000
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

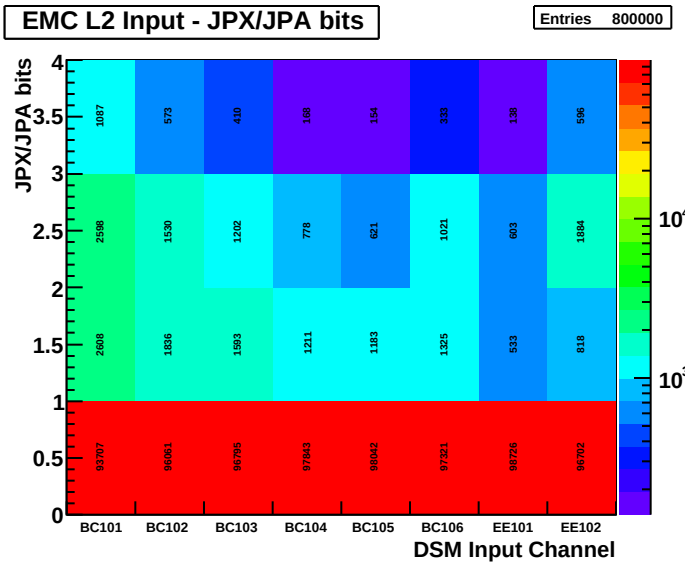

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

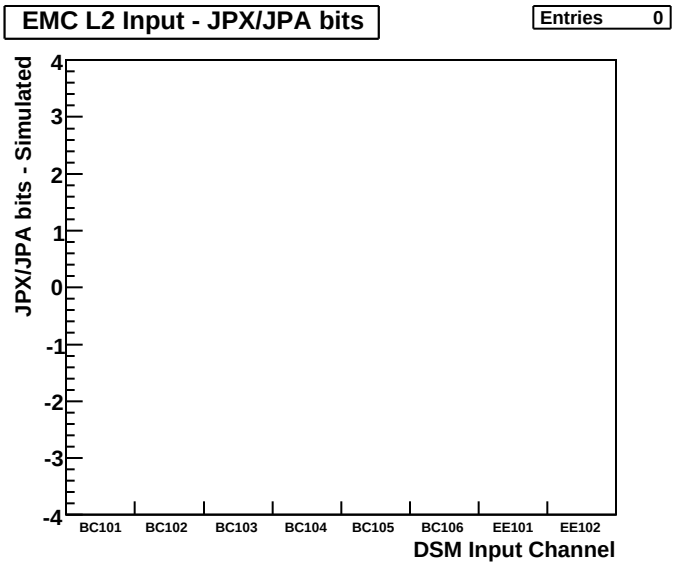

Endcap EMC L1 Input - High Eta Sum
Entries 1200000
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

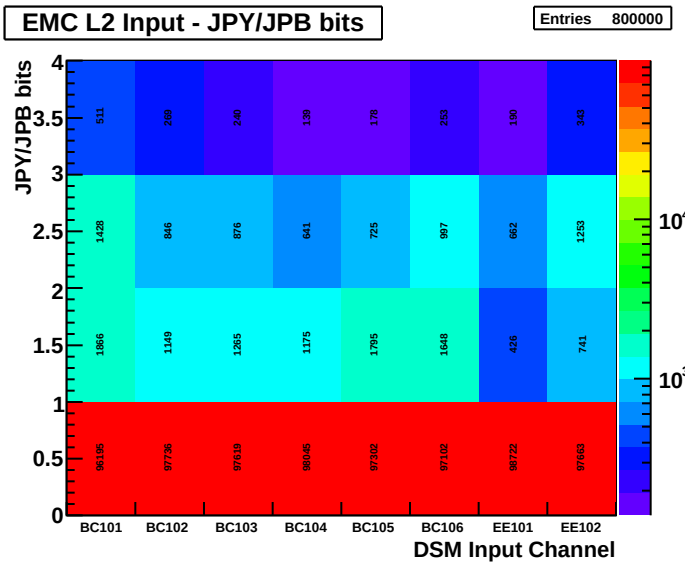

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

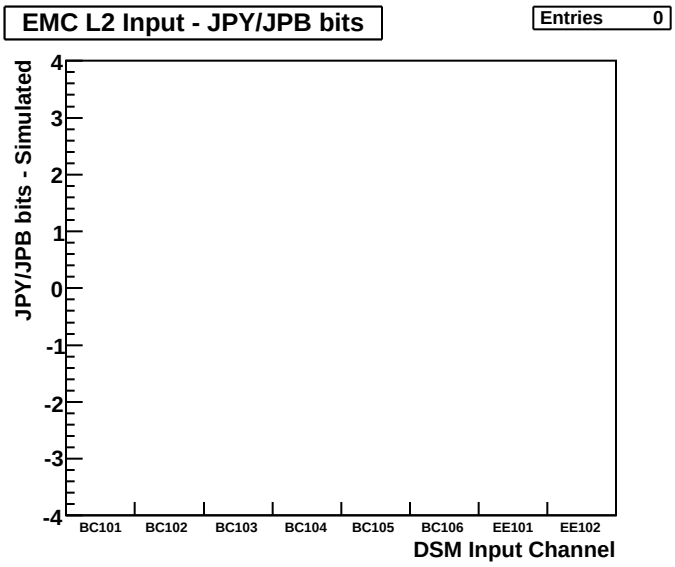

Endcap EMC L1 Input - High Tower Bits
Entries 1200000
High Tower Bits
EE101
EE102
141 57 28 232 222 66 199 768 414 105 84 219
128 23 27 212 186 52 168 598 374 82 49 197
99731 99920 99945 99956 99992 99882 99633 98634 99212 99313 99667 99384
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

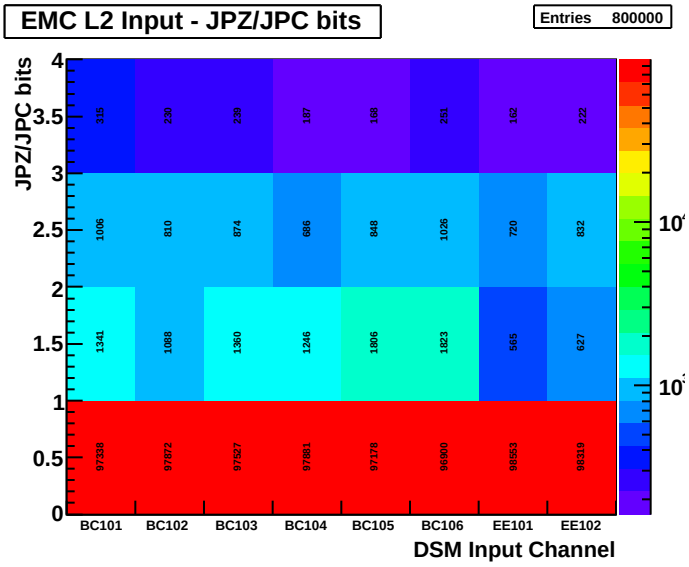

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

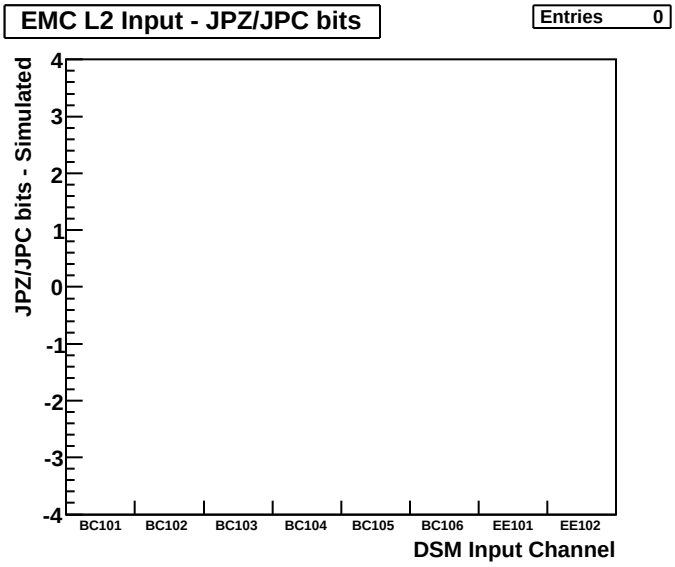

EMC L2 Input - JPX/JPA bits
Entries 800000
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1087 573 410 168 154 333 138 596
2598 1530 1202 778 621 1021 603 1884
2608 1836 1593 1211 1183 1325 533 818
93707 96061 96795 97843 98042 97321 98726 96702

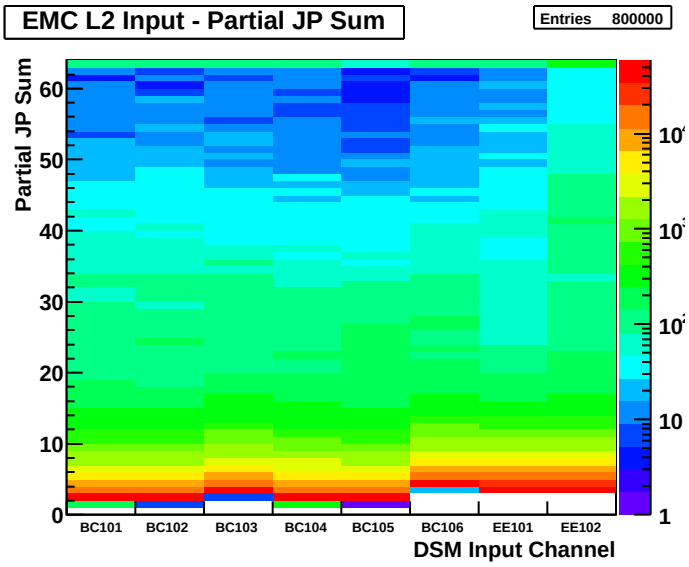

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

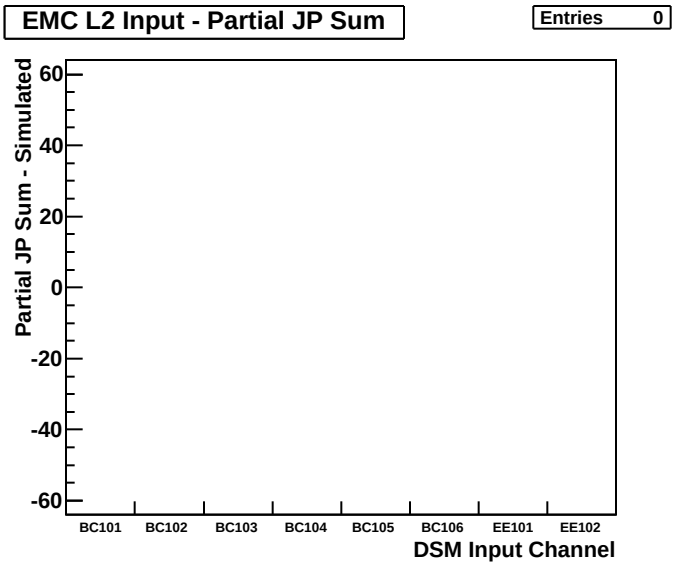

EMC L2 Input - JPY/JPB bits
Entries 800000
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
511 269 240 139 178 253 190 345
1428 846 876 641 725 997 662 1253
1866 1149 1265 1175 1795 1648 426 741
96195 97736 97619 98045 97302 97102 98722 97663

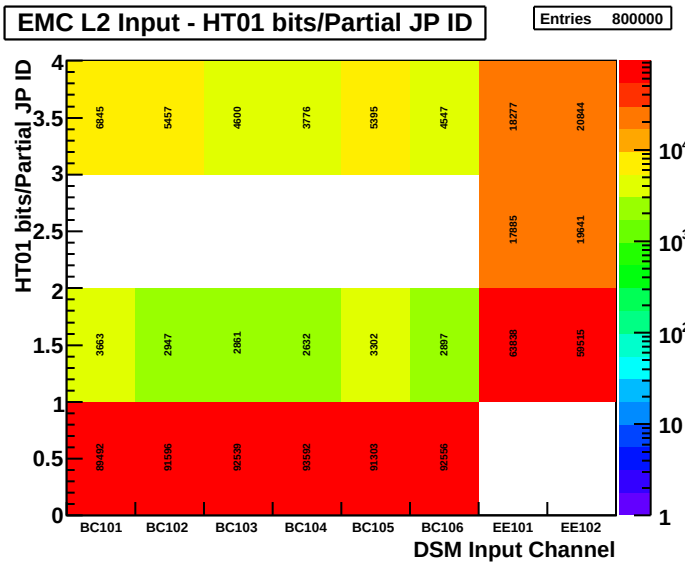

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

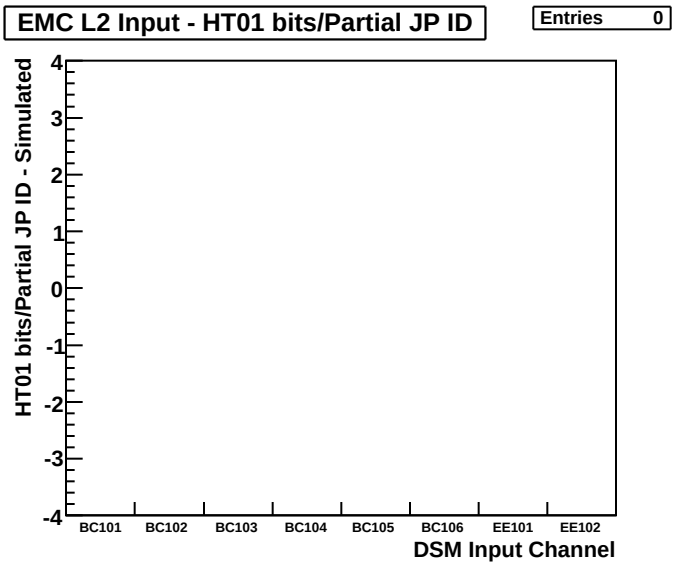

EMC L2 Input - JPZ/JPC bits
Entries 800000
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
315 230 239 157 168 251 162 222
1006 810 874 686 848 1026 720 832
1341 1088 1360 1246 1806 1823 565 627
97338 97872 97527 97831 97178 96900 98553 98319

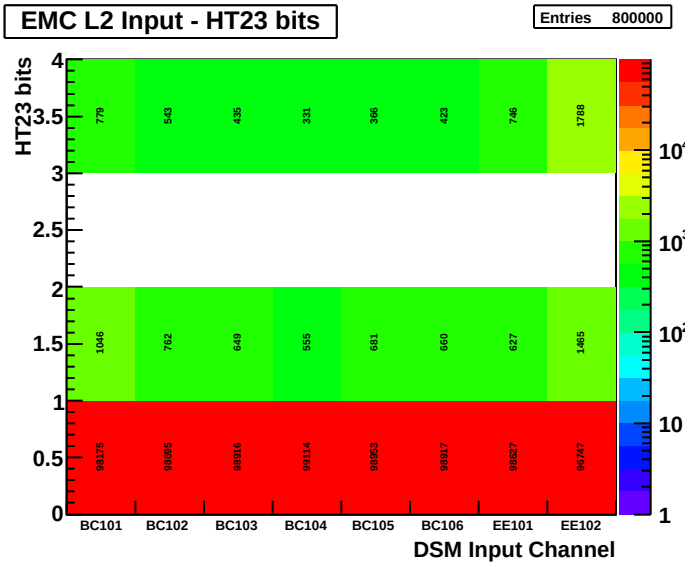

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

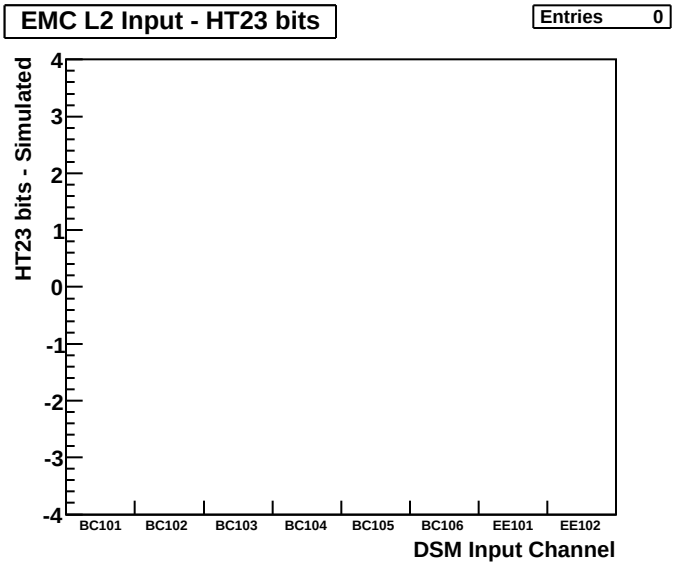

EMC L2 Input - Partial JP Sum
Entries 800000
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

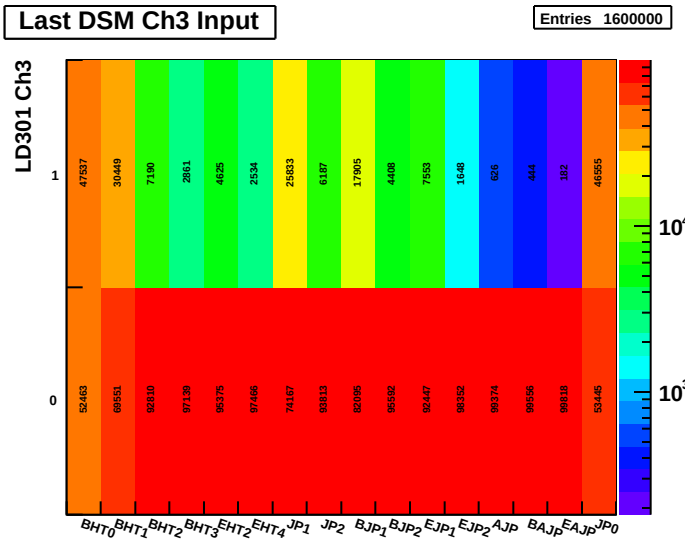

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

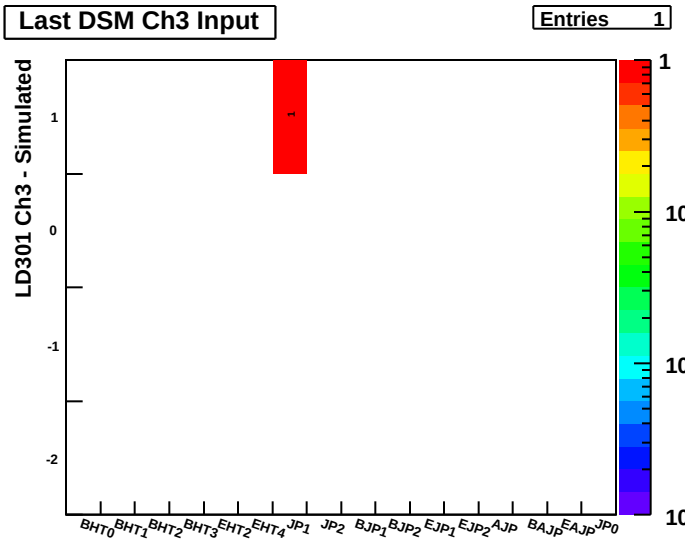

EMC L2 Input - HT01 bits/Partial JP ID
Entries 800000
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

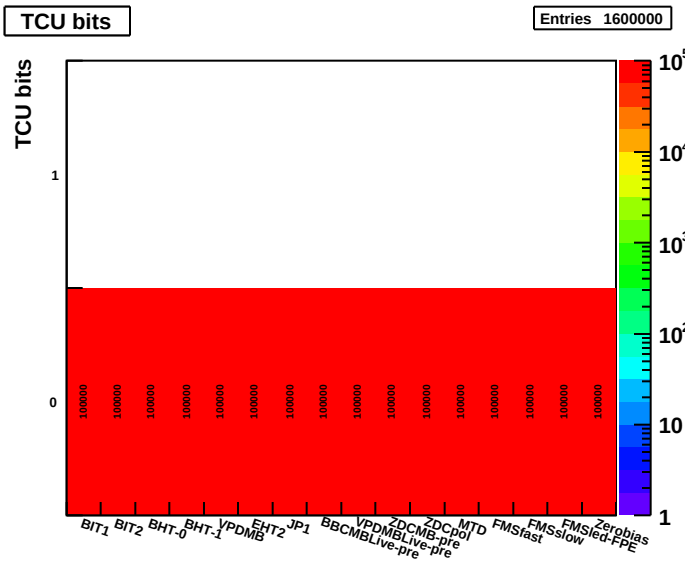

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

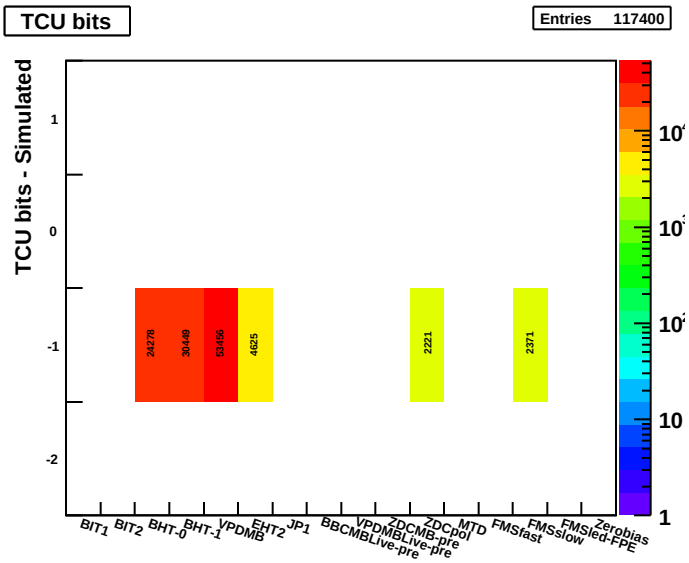

EMC L2 Input - HT23 bits
Entries 800000
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

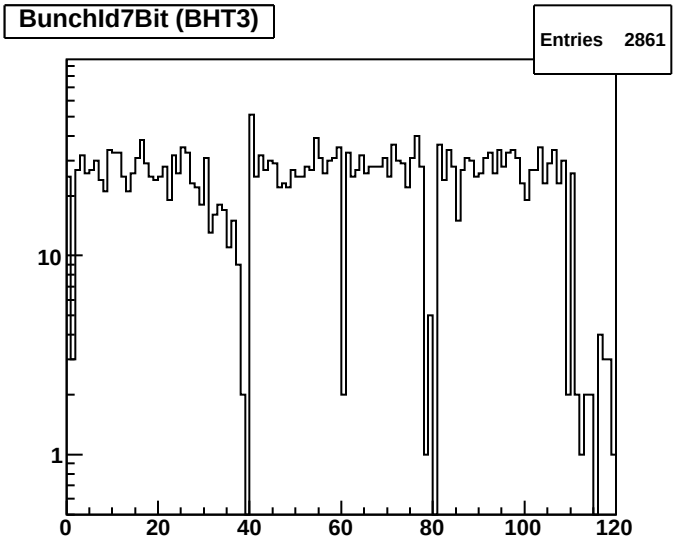

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

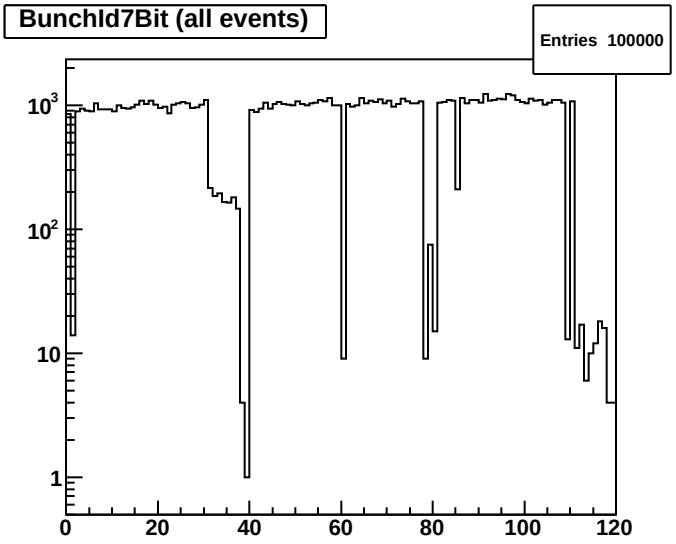

Last DSM Ch3 Input
Entries 1600000
LD301 Ch3
47537 30449 7190 2861 4625 2534 25833 6187 17905 4408 7553 1648 626 444 182 46555
52463 69551 92810 97139 95375 97466 74167 93813 82095 95592 92447 98352 99374 99556 99818 53445
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

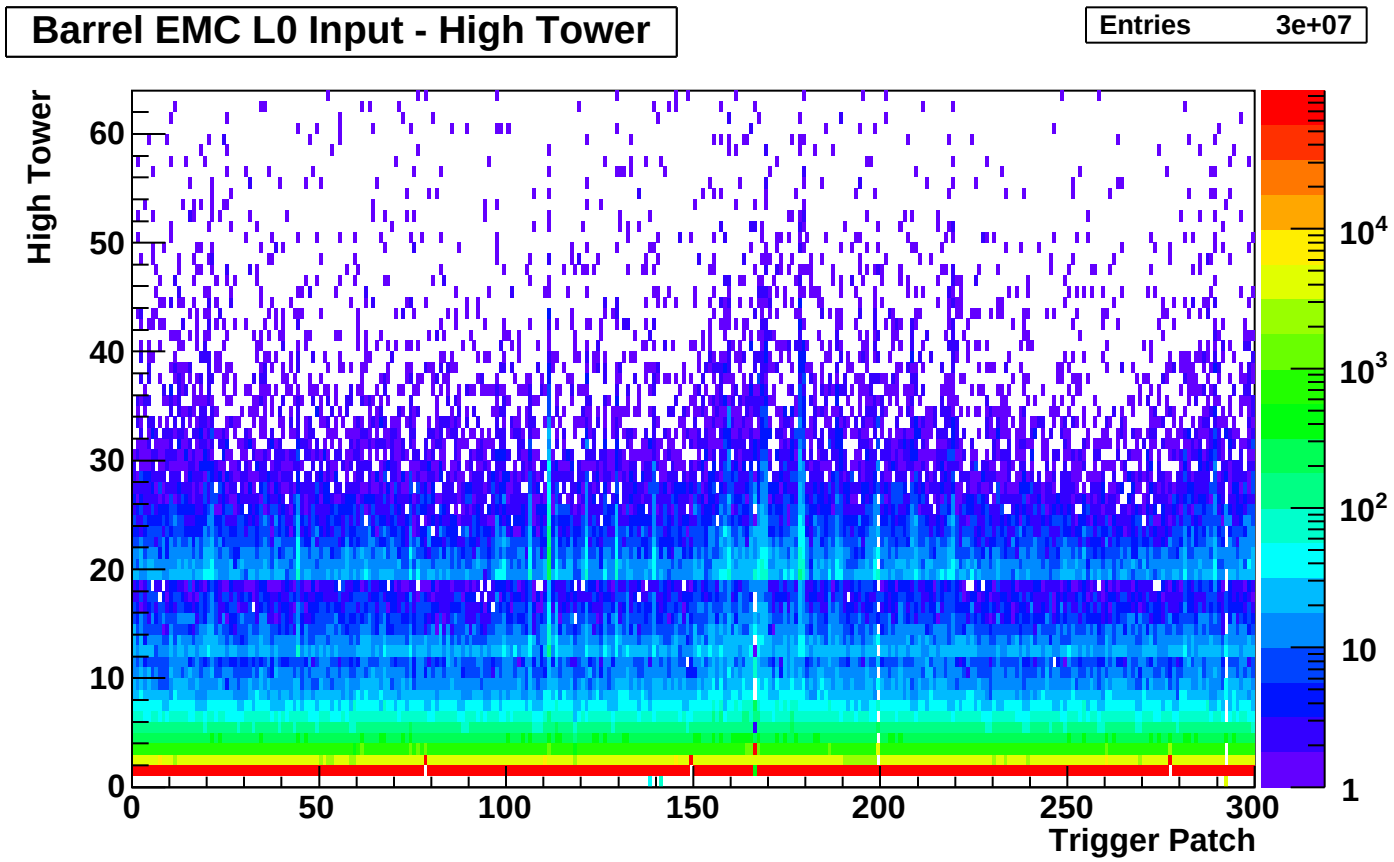

Last DSM Ch3 Input
Entries 1
LD301 Ch3 - Simulated
1
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

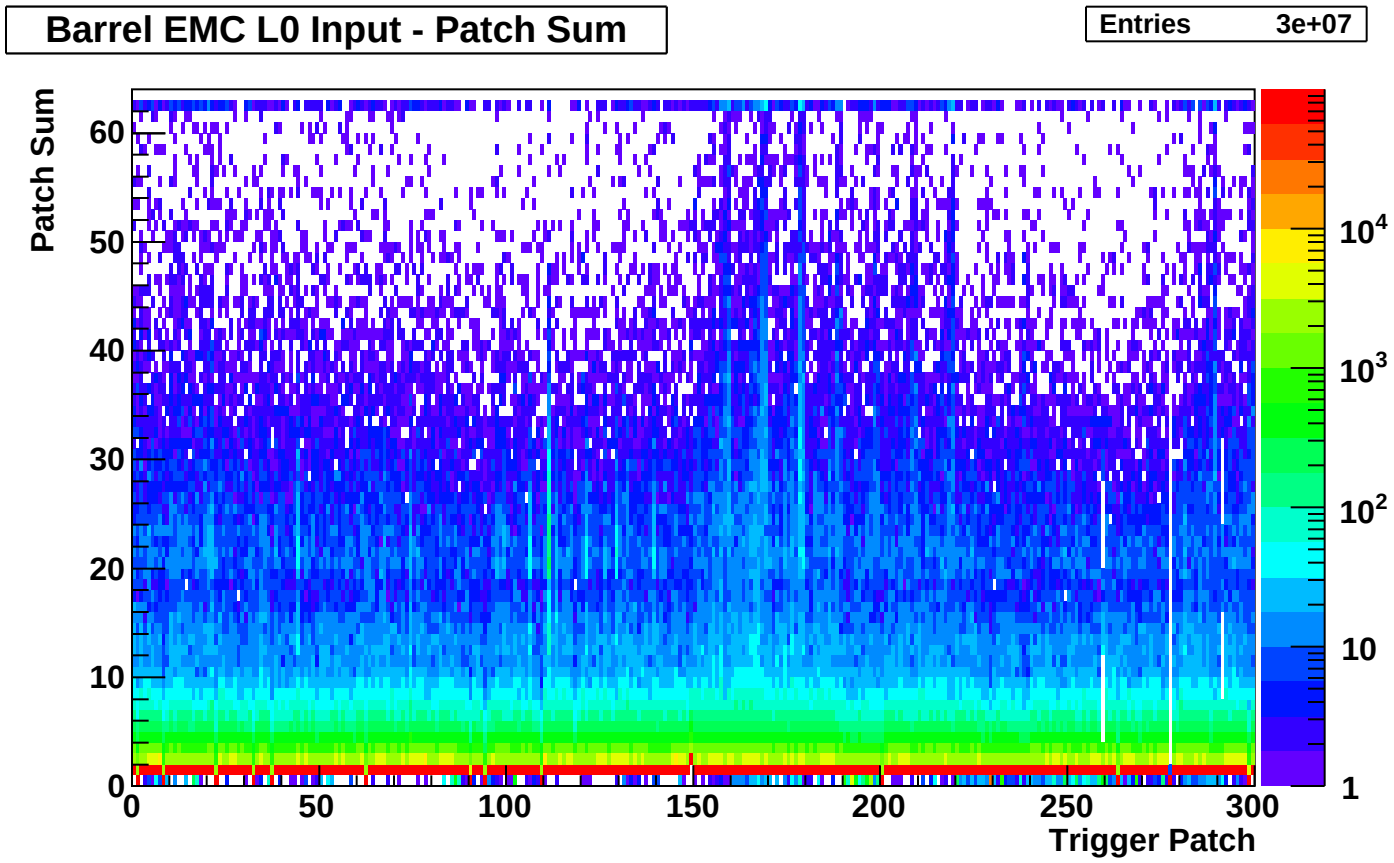

TCU bits
Entries 1600000
TCU bits
100000
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

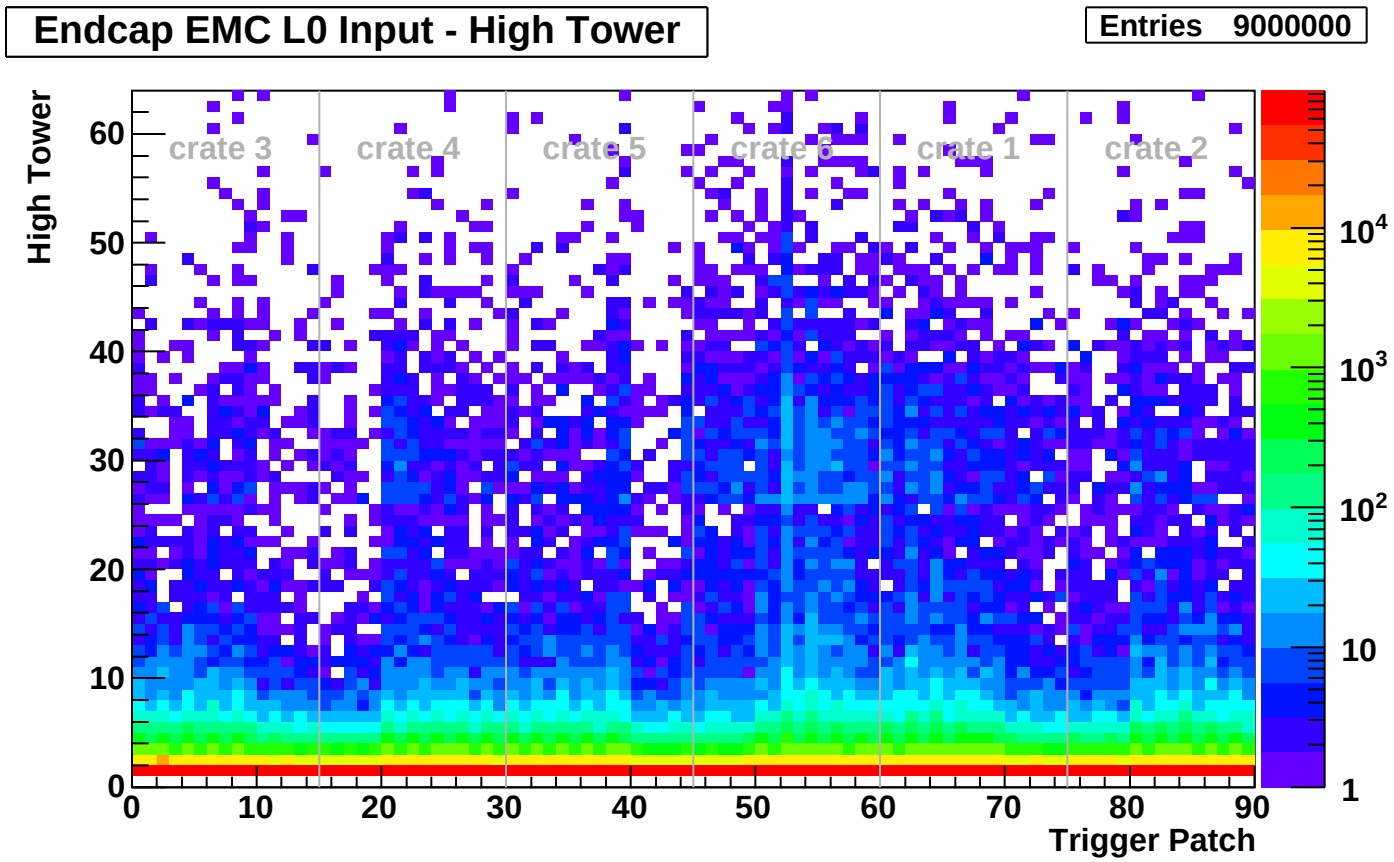

TCU bits
Entries 117400
TCU bits - Simulated
24278 30449 53456 4625 2221 2371
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

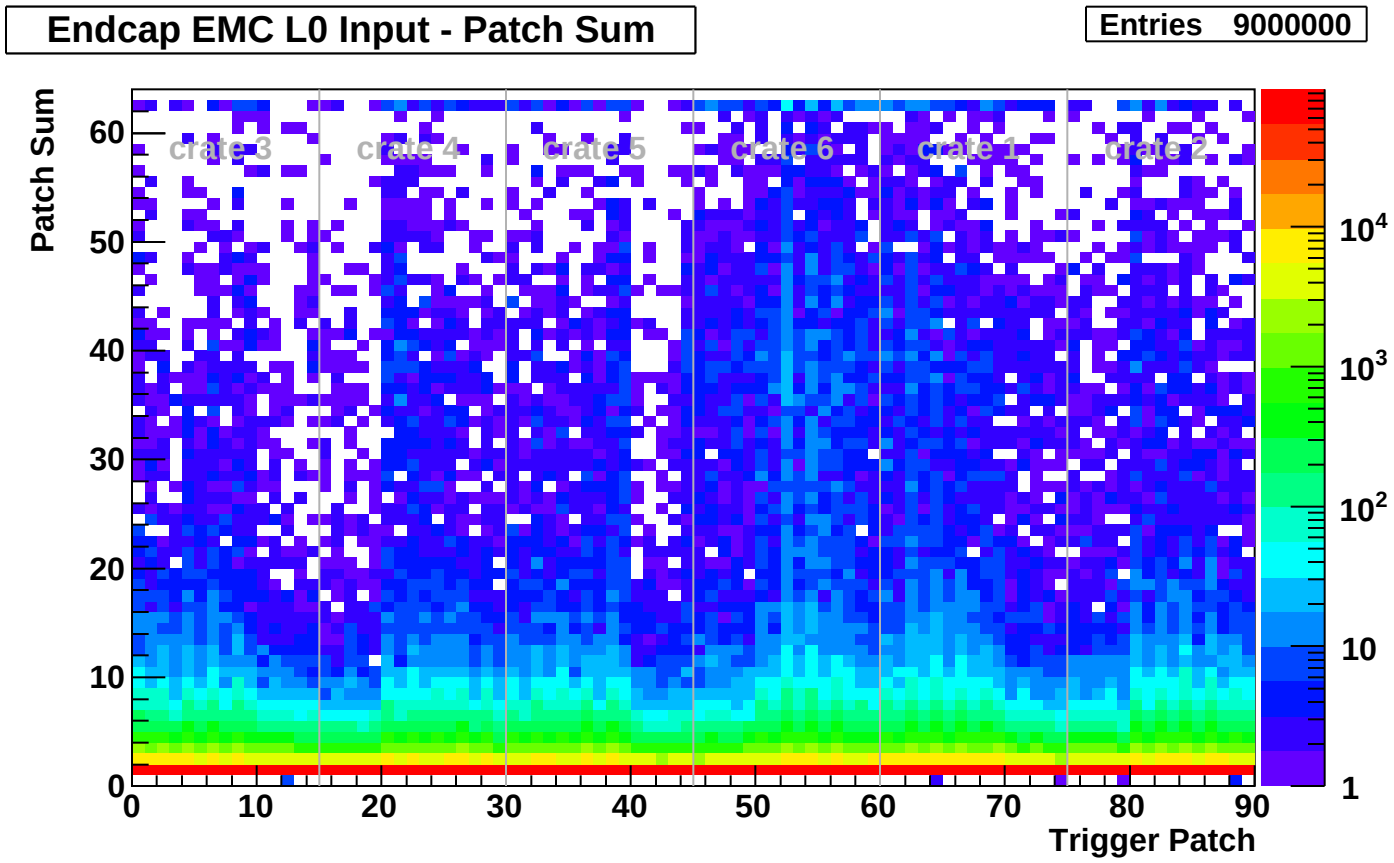

BunchId7Bit (BHT3)
Entries 2861

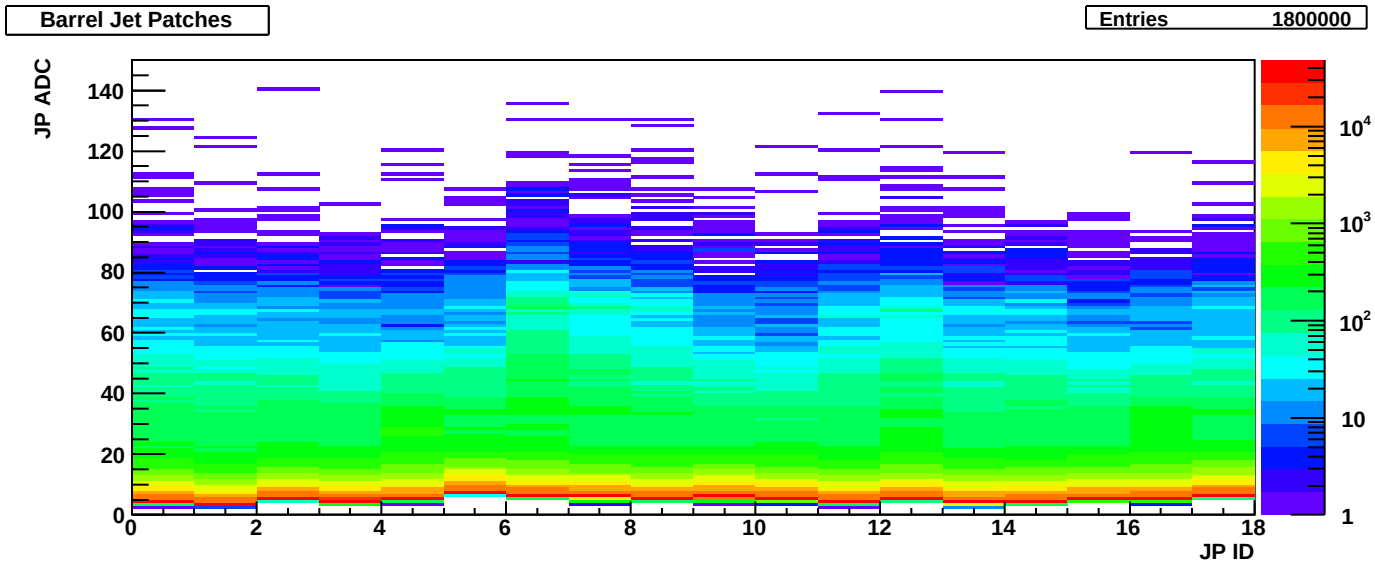

BunchId7Bit (all events)
Entries 100000

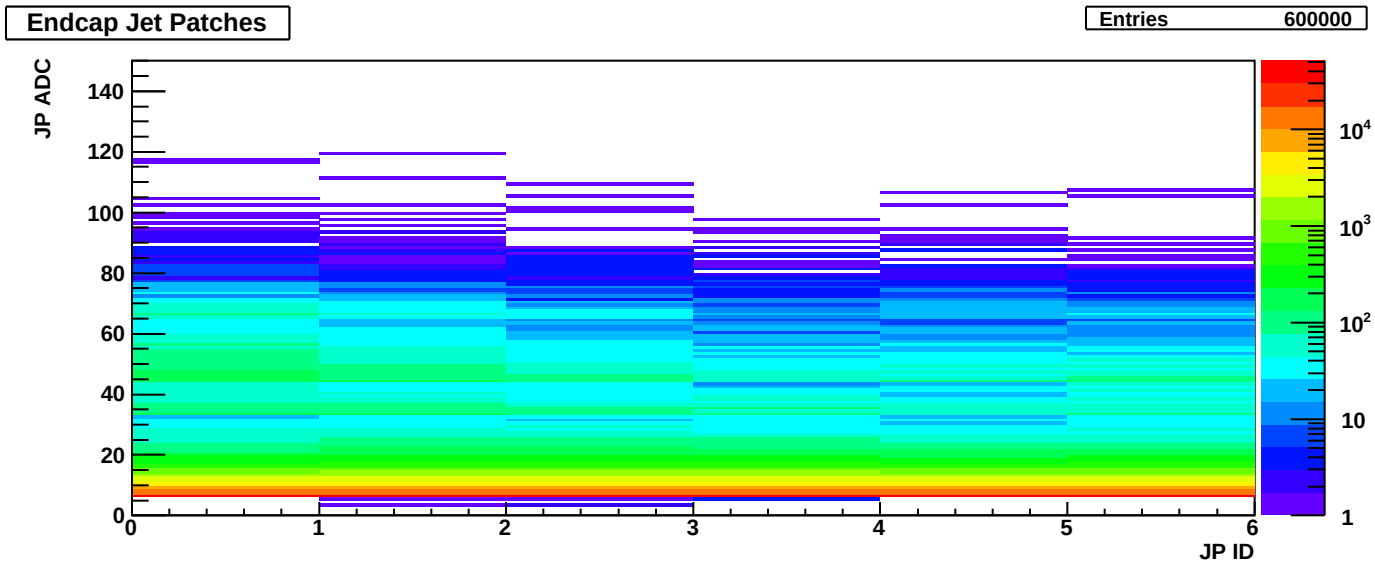

Barrel EMC L0 Input - High Tower
Entries 3e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

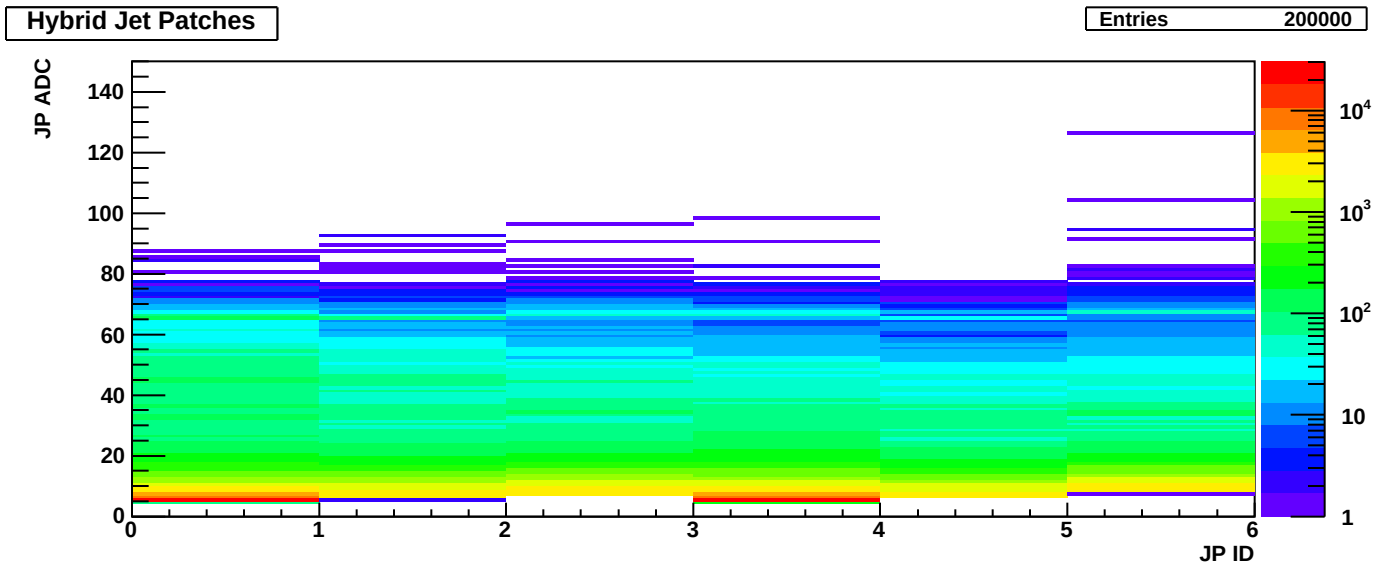

Barrel EMC L0 Input - Patch Sum
Entries 3e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

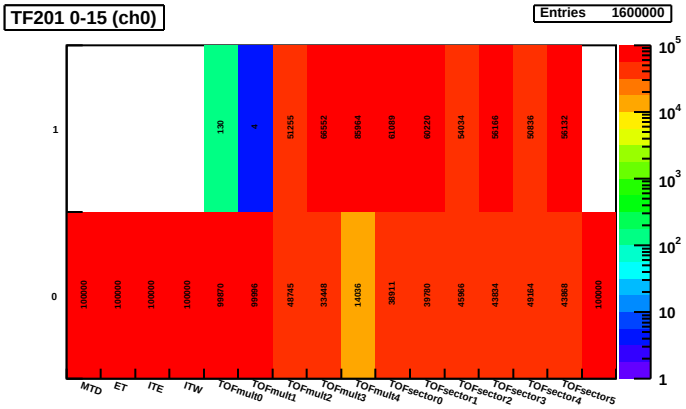

Endcap EMC L0 Input - High Tower
Entries 9000000
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

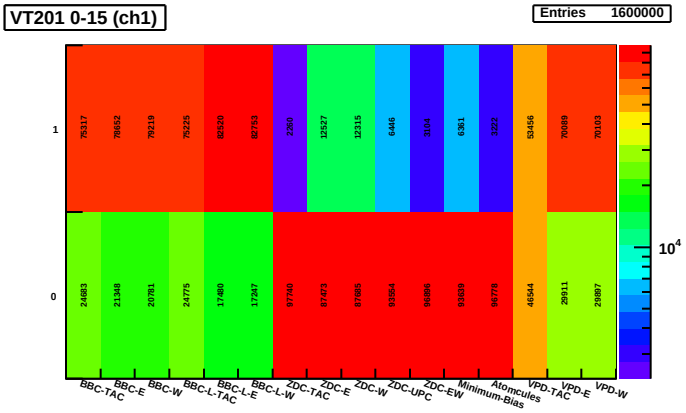

Endcap EMC L0 Input - Patch Sum
Entries 9000000
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

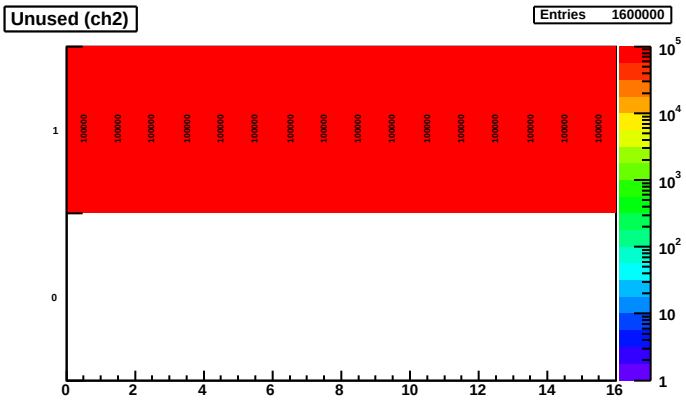

Barrel Jet Patches
Entries 1800000
JP ADC
JP ID

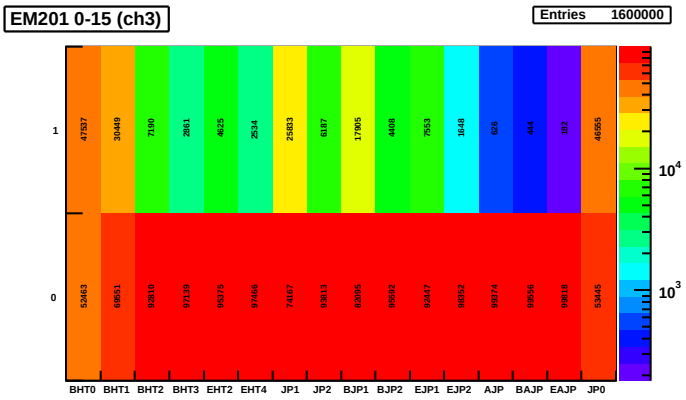

Endcap Jet Patches
Entries 600000
JP ADC
JP ID

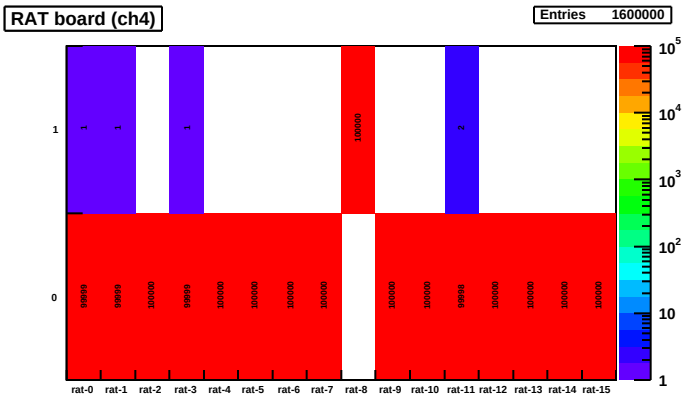

Hybrid Jet Patches
Entries 200000
JP ADC
JP ID

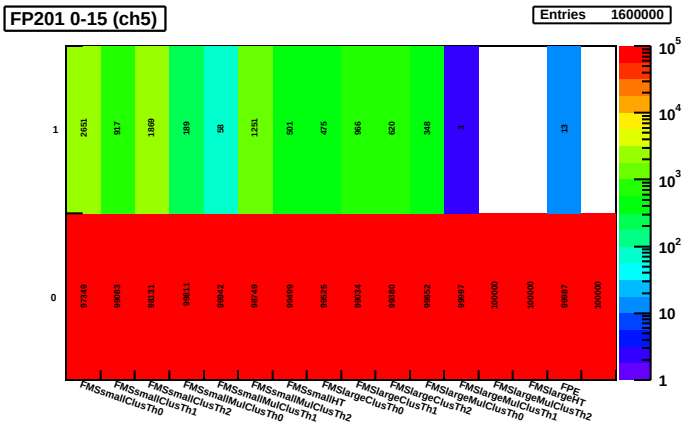

TF201 0-15 (ch0)
Entries 1600000
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

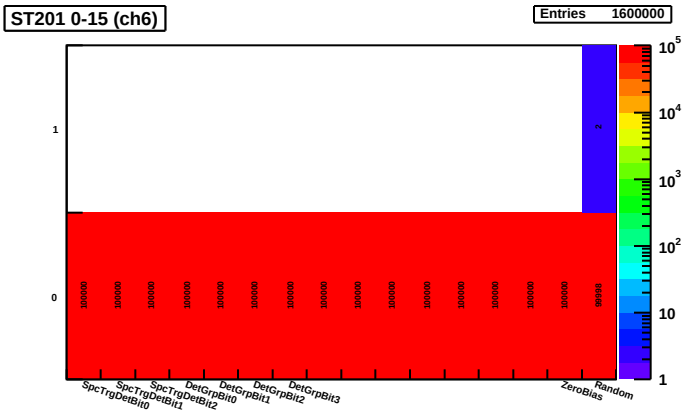

VT201 0-15 (ch1)
Entries 1600000
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

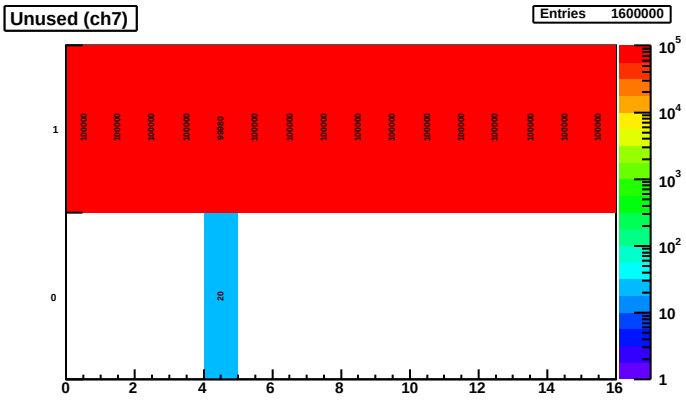

Unused (ch2)
Entries 1600000

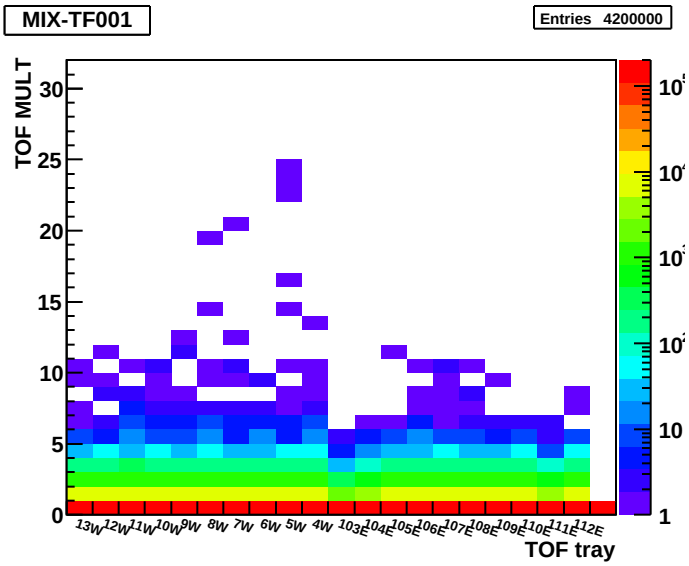

EM201 0-15 (ch3)
Entries 1600000
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

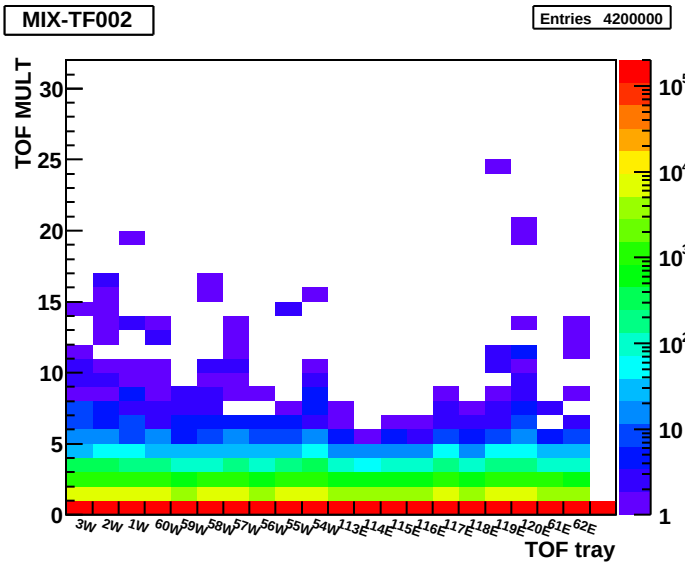

RAT board (ch4)
Entries 1600000
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

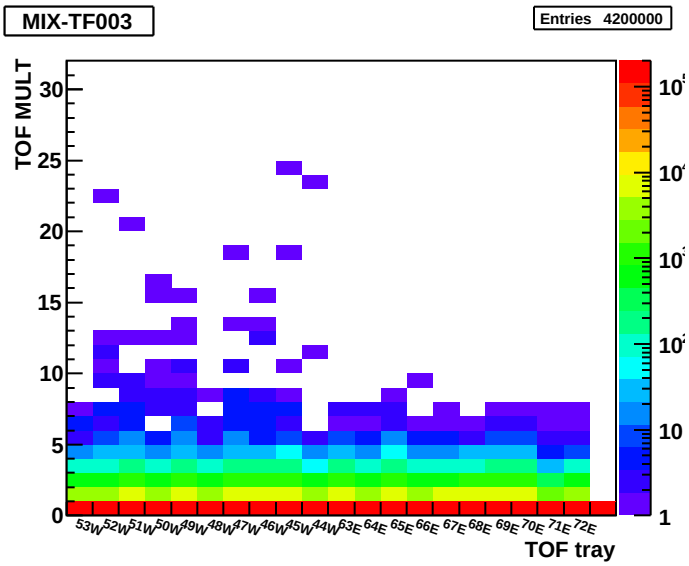

FP201 0-15 (ch5)
Entries 1600000
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

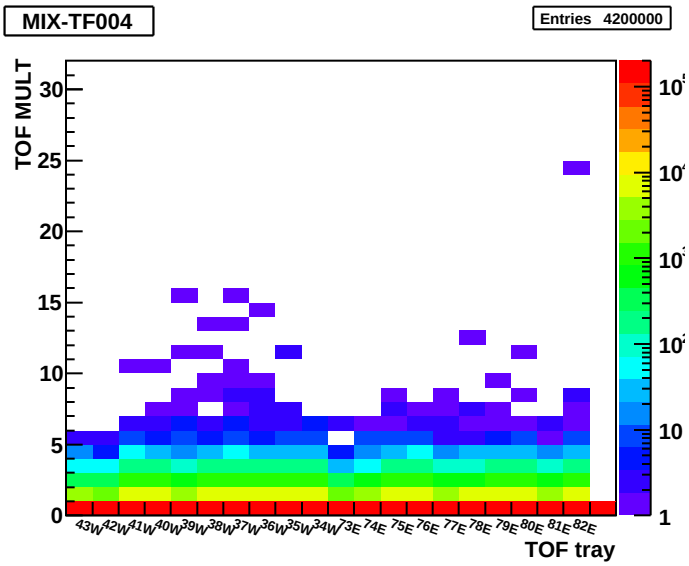

ST201 0-15 (ch6)
Entries 1600000
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

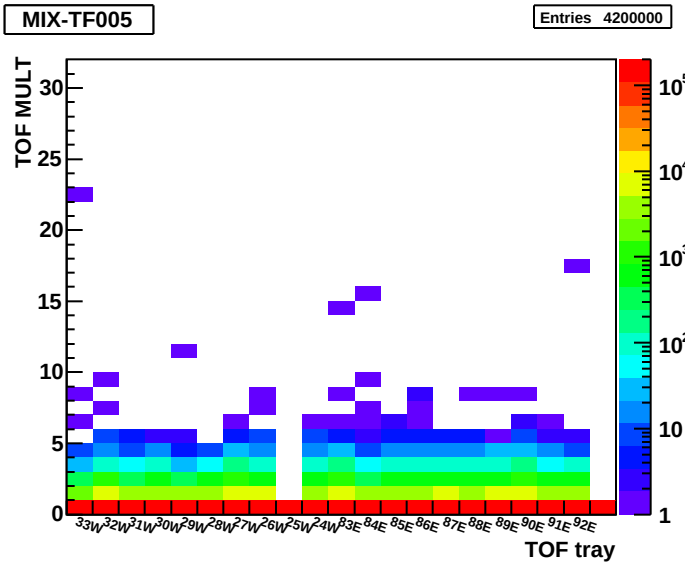

Unused (ch7)
Entries 1600000

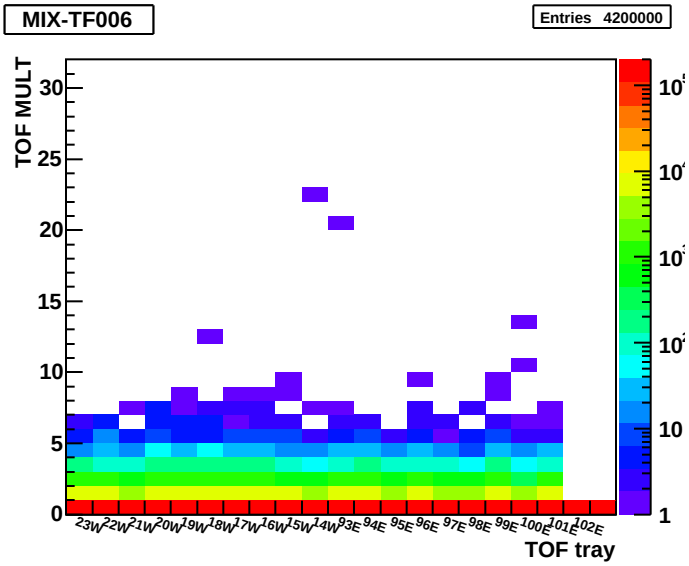

MIX-TF001
Entries 4200000
TOF MULT
TOF tray

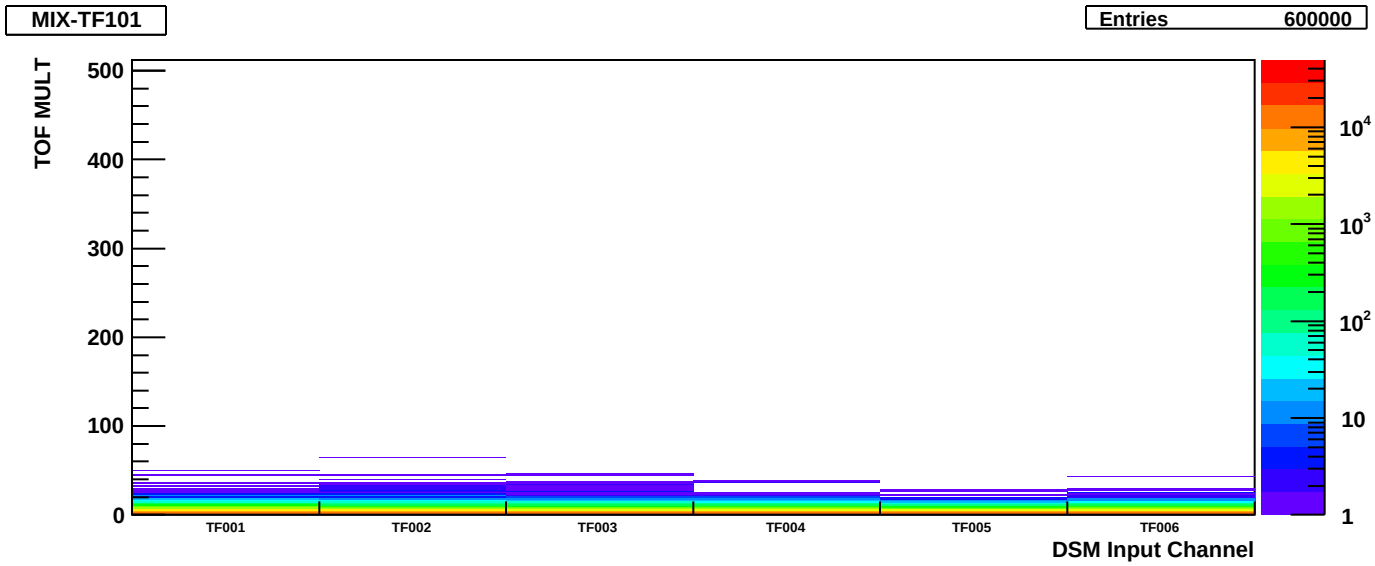

MIX-TF002
Entries 4200000
TOF MULT
TOF tray

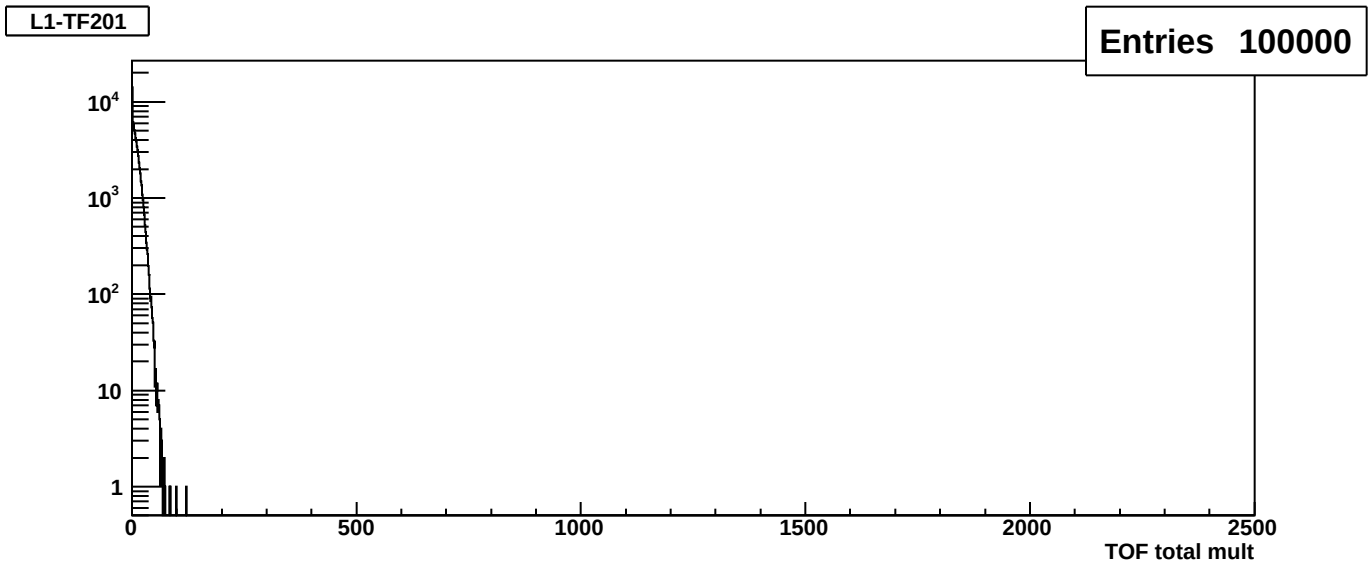

MIX-TF003
Entries 4200000
TOF MULT
TOF tray

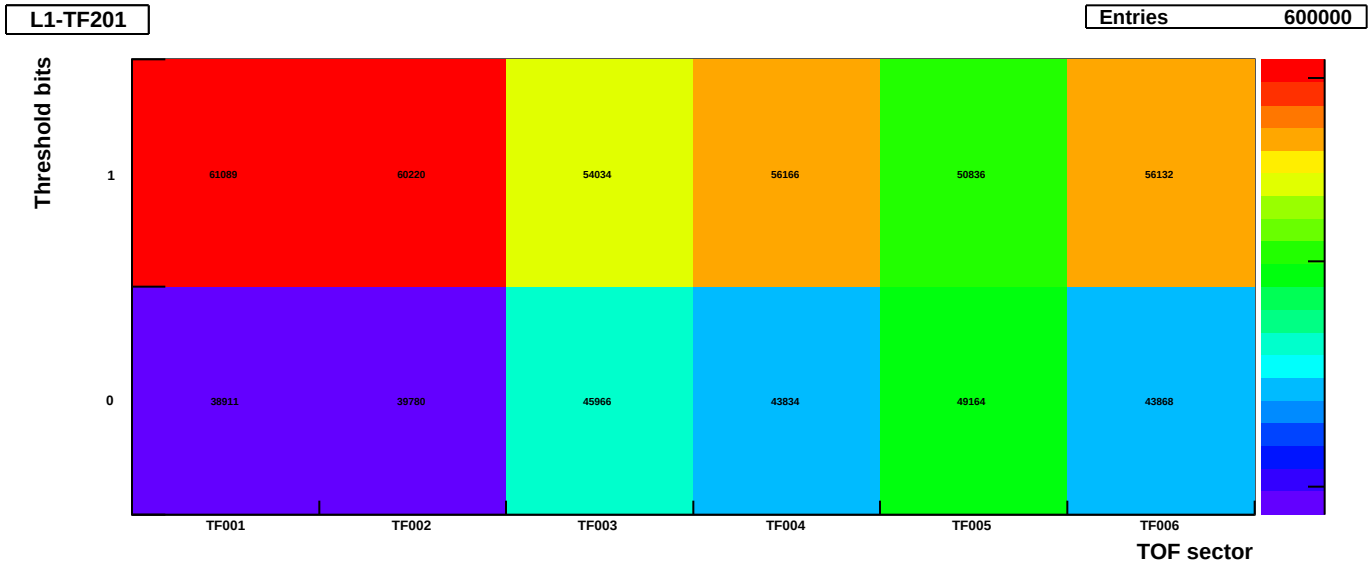

MIX-TF004
Entries 4200000
TOF MULT
TOF tray

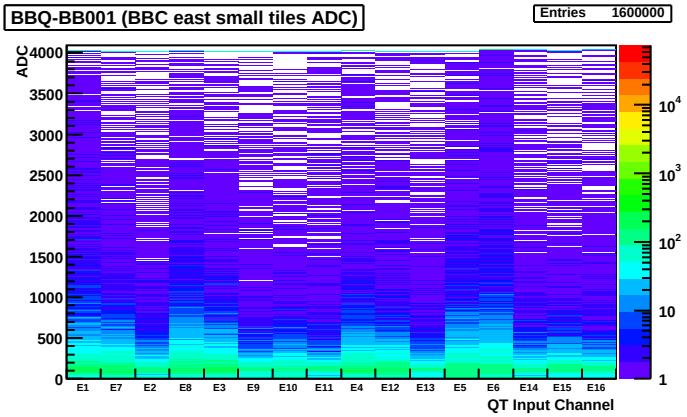

MIX-TF005
Entries 4200000
TOF MULT
TOF tray

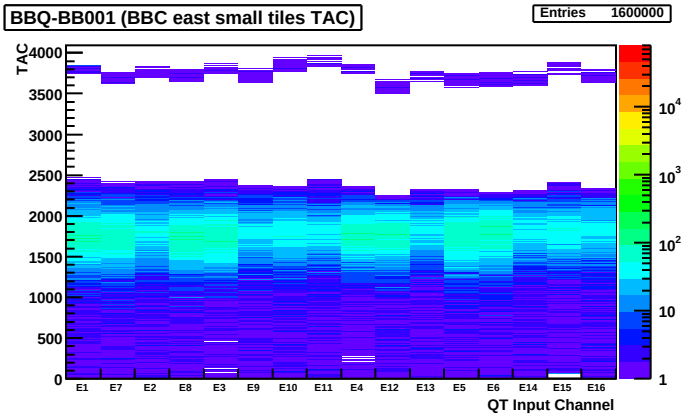

MIX-TF006
Entries 4200000
TOF MULT
TOF tray

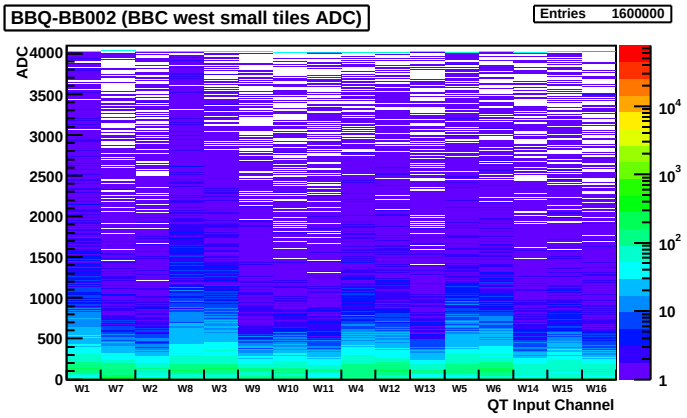

MIX-TF101
Entries 600000
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

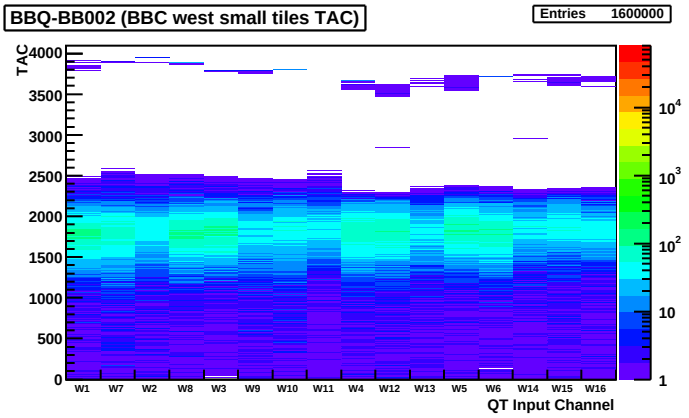

L1-TF201
Entries 100000
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

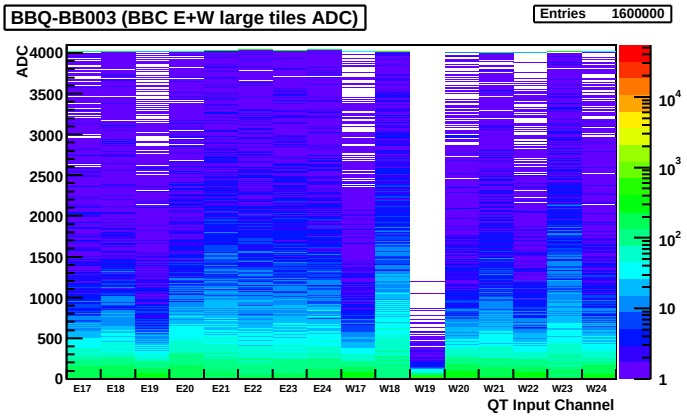

L1-TF201
Entries 600000
Threshold bits
1
0
61089
60220
54034
56166
50836
56132
38911
39780
45966
43834
49164
43868
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

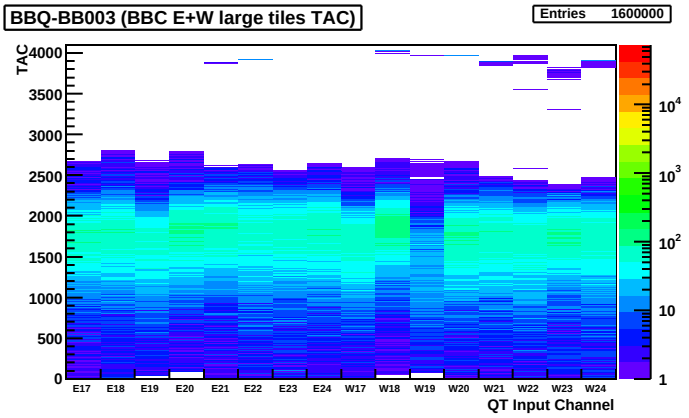

BBQ-BB001 (BBC east small tiles ADC)
Entries 1600000
ADC
QT Input Channel

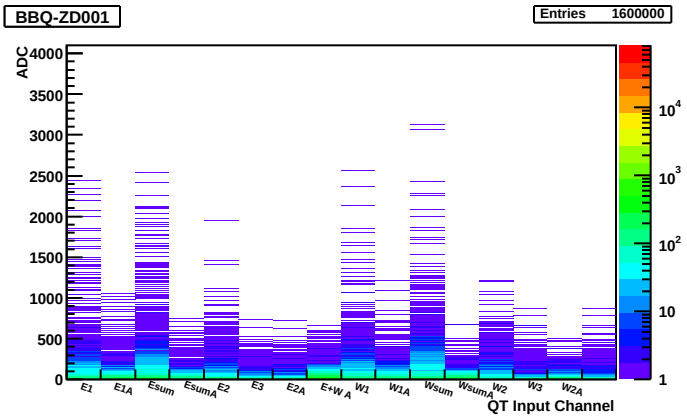

BBQ-BB001 (BBC east small tiles TAC)
Entries 1600000
TAC
QT Input Channel

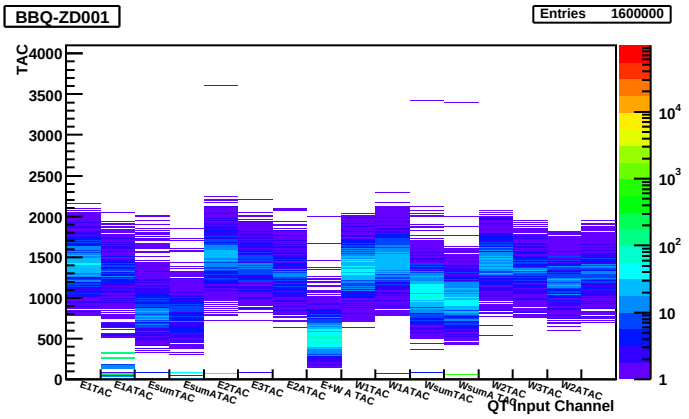

BBQ-BB002 (BBC west small tiles ADC)
Entries 1600000
ADC
QT Input Channel

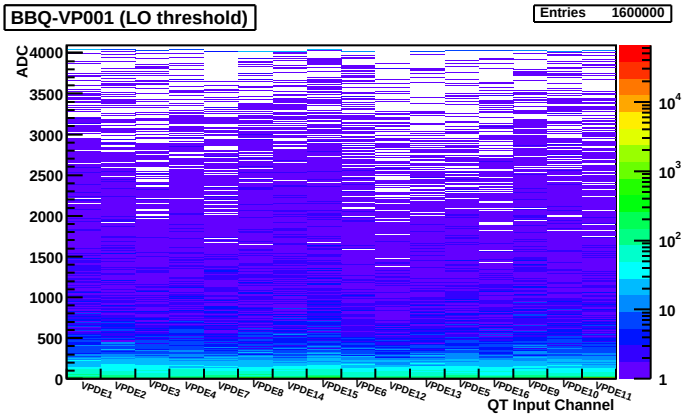

BBQ-BB002 (BBC west small tiles TAC)
Entries 1600000
TAC
QT Input Channel

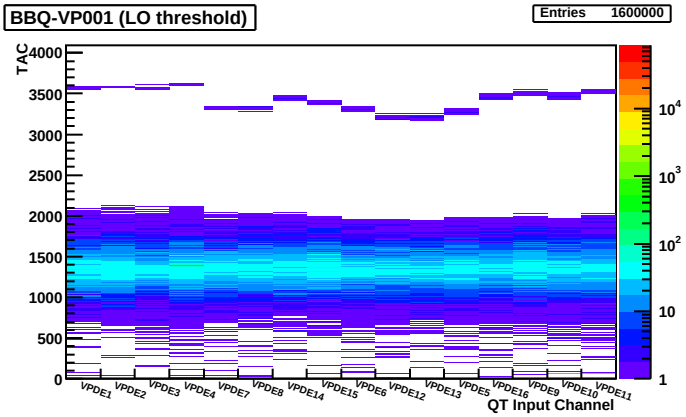

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1600000
ADC
QT Input Channel

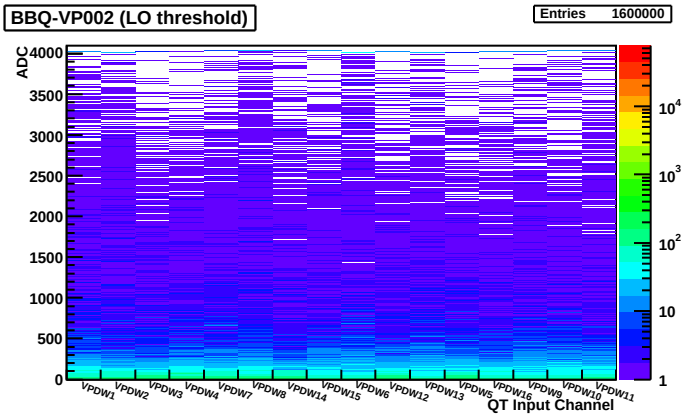

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1600000
TAC
QT Input Channel

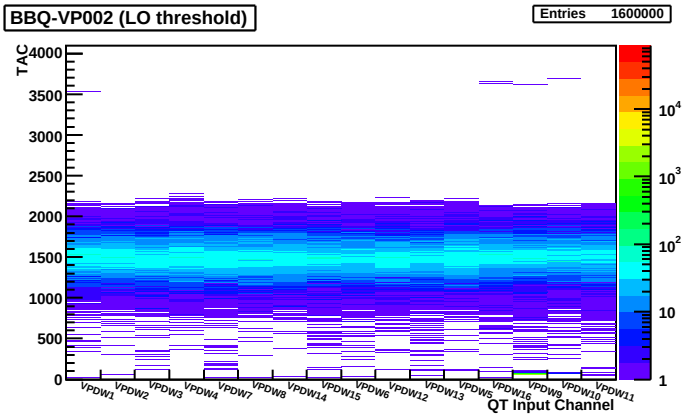

BBQ-ZD001
Entries 1600000
ADC
QT Input Channel

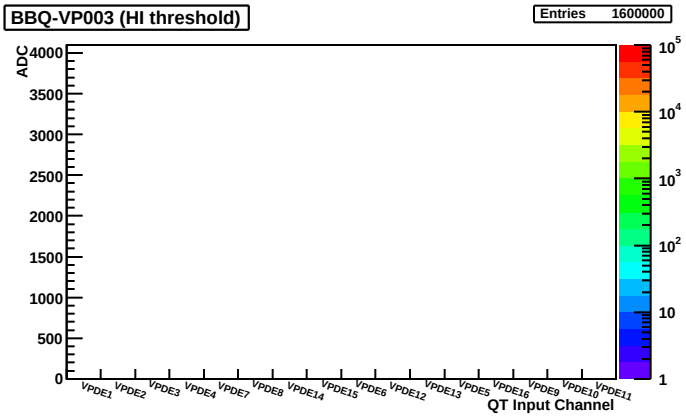

BBQ-ZD001
Entries 1600000
TAC
QT Input Channel

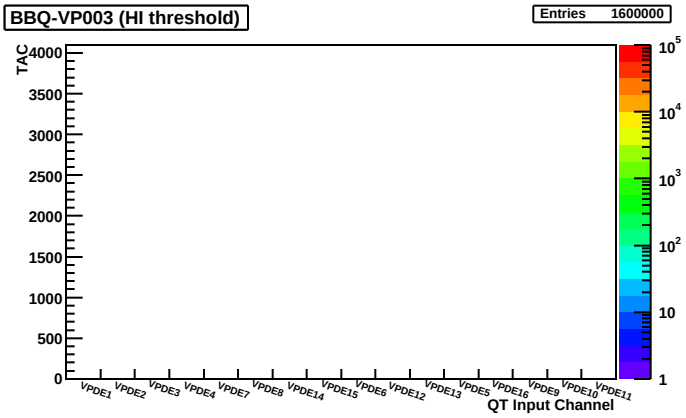

BBQ-VP001 (LO threshold)
Entries 1600000
ADC
QT Input Channel

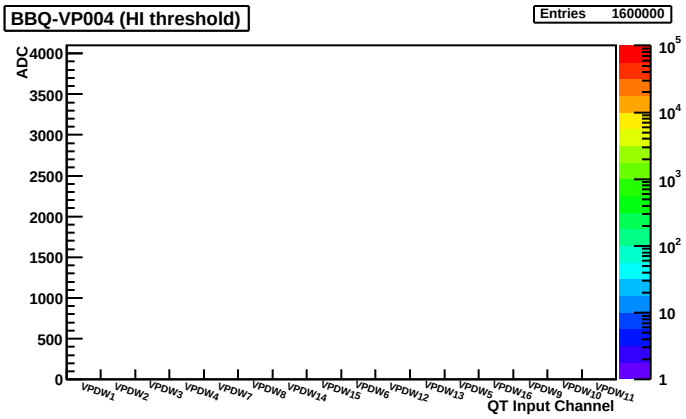

BBQ-VP001 (LO threshold)
Entries 1600000
TAC
QT Input Channel

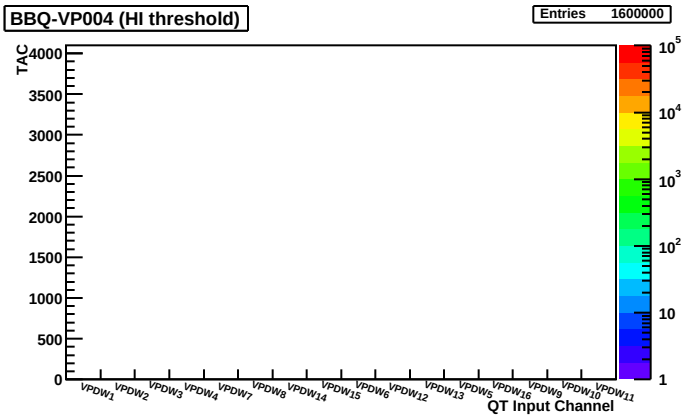

BBQ-VP002 (LO threshold)
Entries 1600000
ADC
QT Input Channel

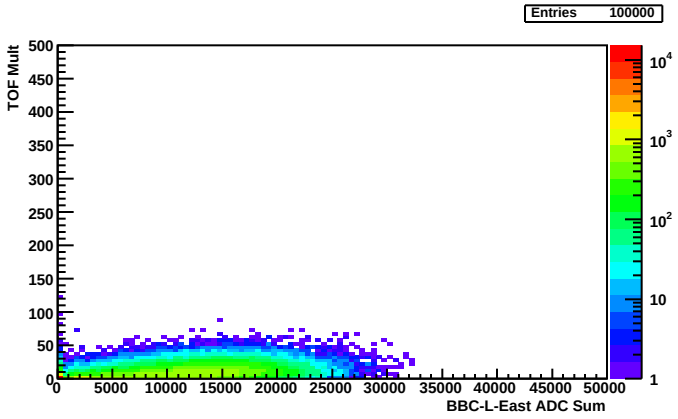

BBQ-VP002 (LO threshold)
Entries 1600000
TAC
QT Input Channel

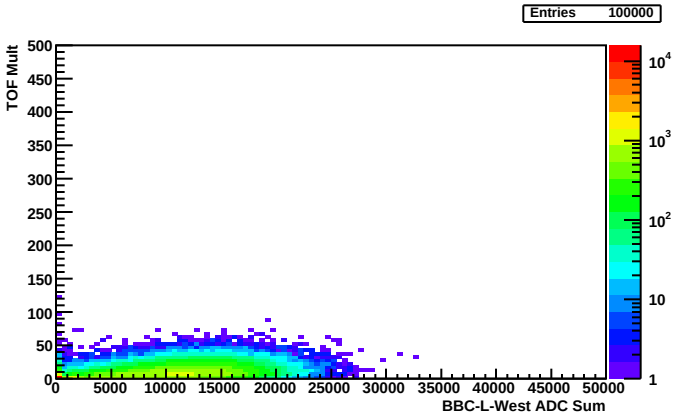

BBQ-VP003 (HI threshold)
Entries 1600000
ADC
QT Input Channel

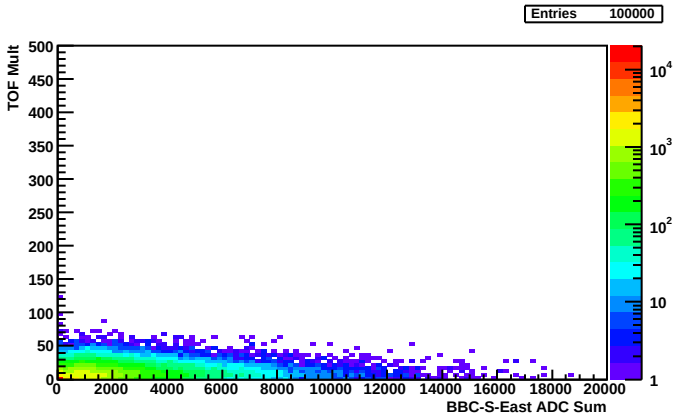

BBQ-VP003 (HI threshold)
Entries 1600000
TAC
QT Input Channel

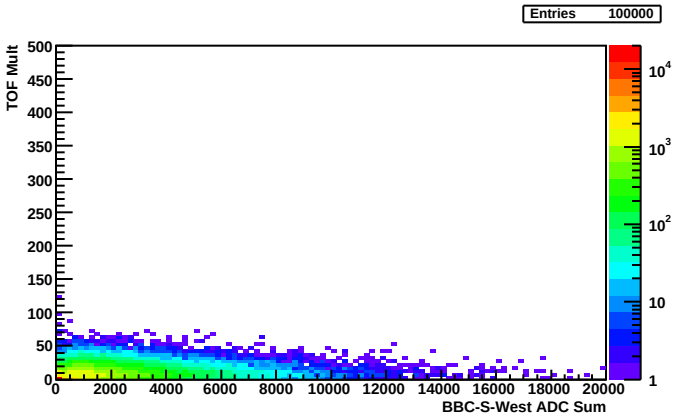

BBQ-VP004 (HI threshold)
Entries 1600000
ADC
QT Input Channel

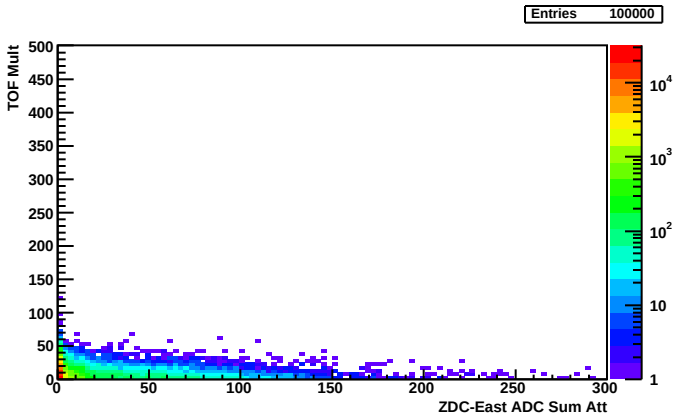

BBQ-VP004 (HI threshold)
Entries 1600000
TAC
QT Input Channel

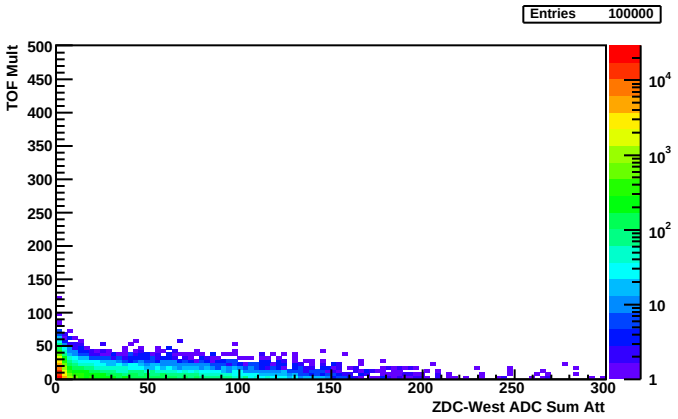

Entries 100000
TOF Mult
BBC-L-East ADC Sum

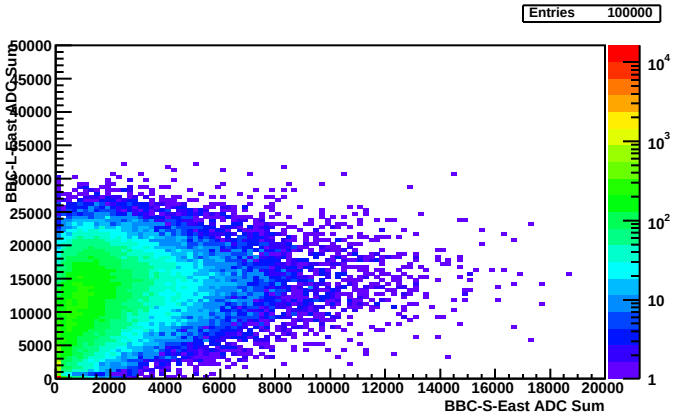

Entries 100000
TOF Mult
BBC-L-West ADC Sum

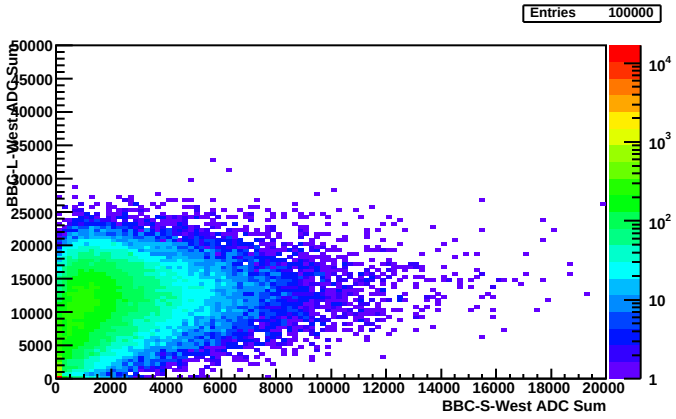

Entries 100000
TOF Mult
BBC-S-East ADC Sum

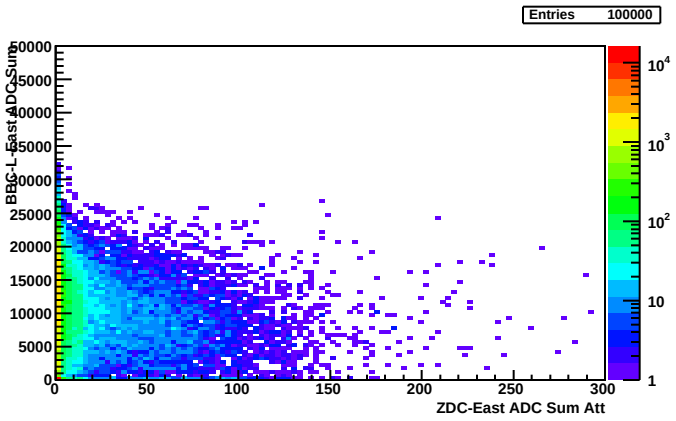

Entries 100000
TOF Mult
BBC-S-West ADC Sum

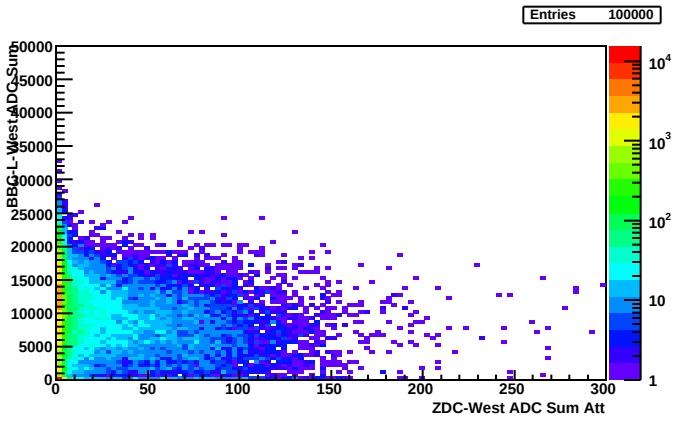

Entries 100000
TOF Mult
ZDC-East ADC Sum Att

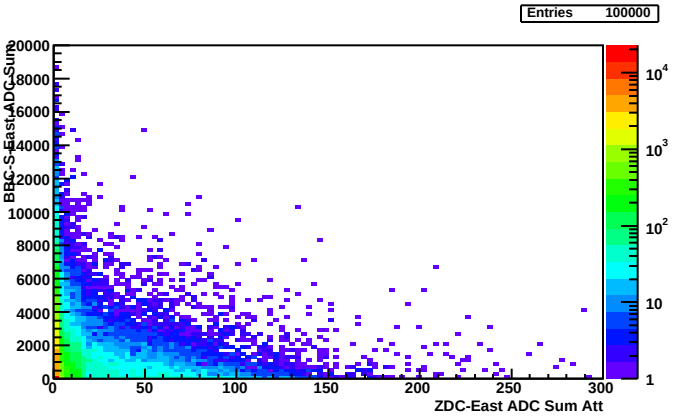

Entries 100000
TOF Mult
ZDC-West ADC Sum Att

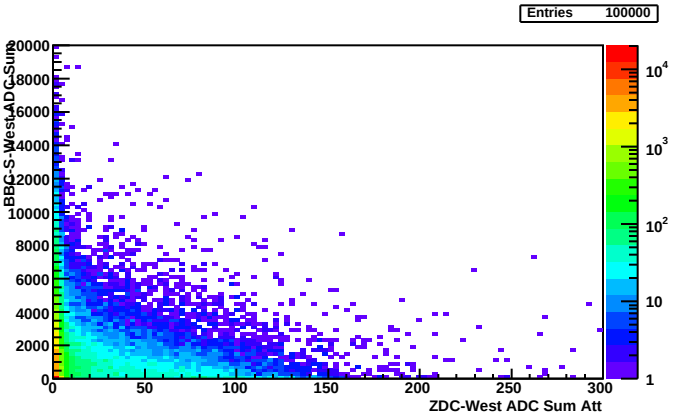

Entries 100000
BBC-L-East ADC Sum
BBC-S-East ADC Sum

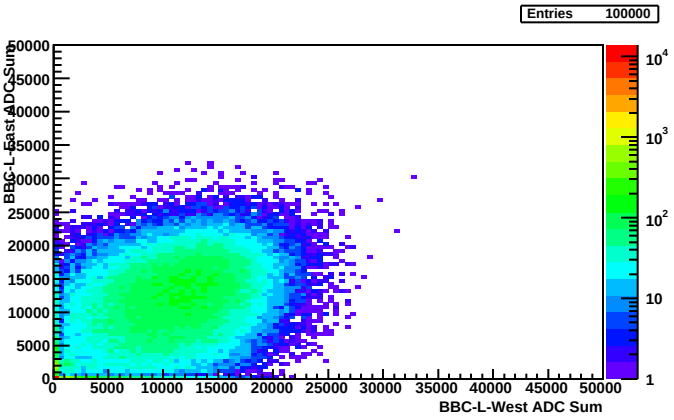

Entries 100000
BBC-L-West ADC Sum
BBC-S-West ADC Sum

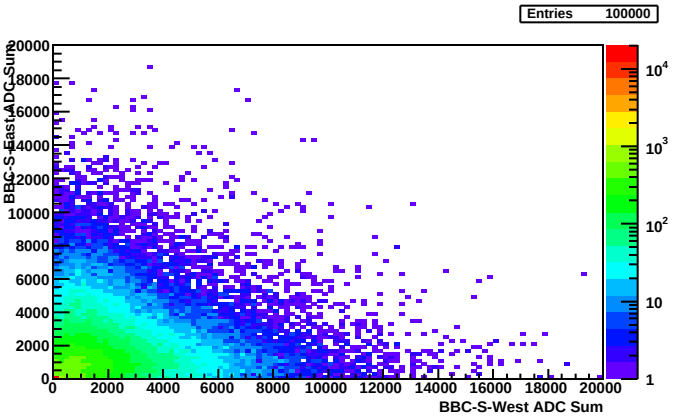

Entries 100000
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

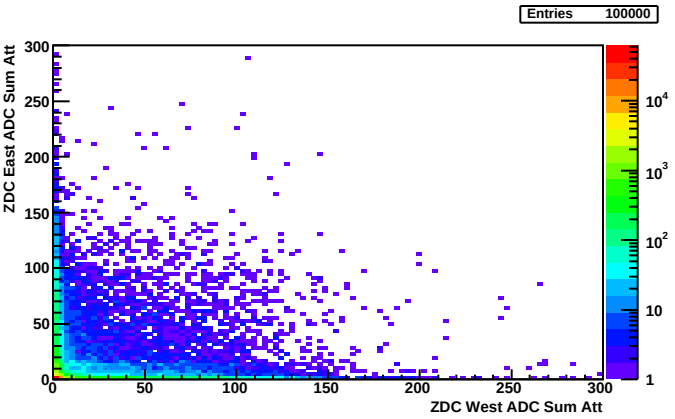

Entries 100000
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

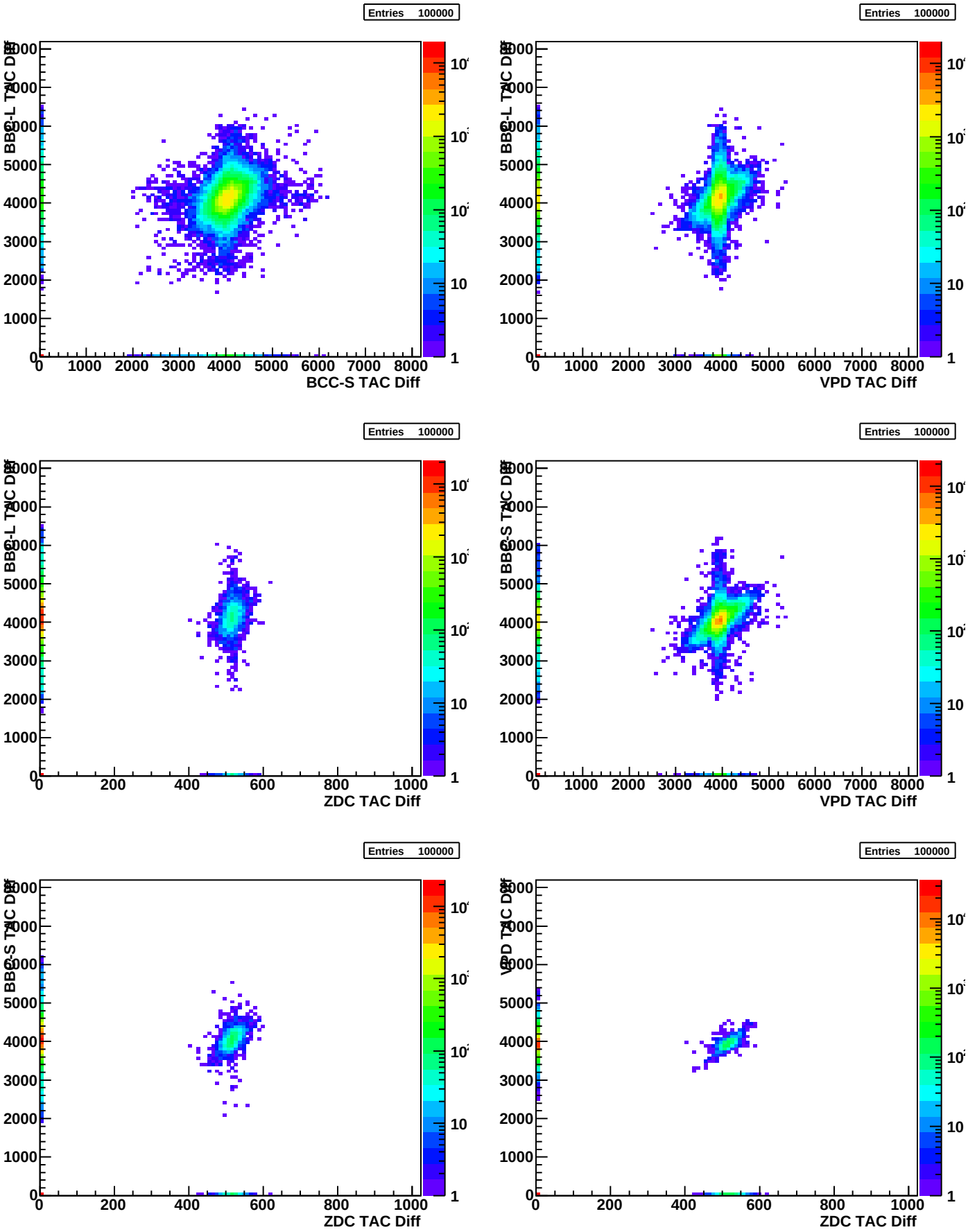

Entries 100000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

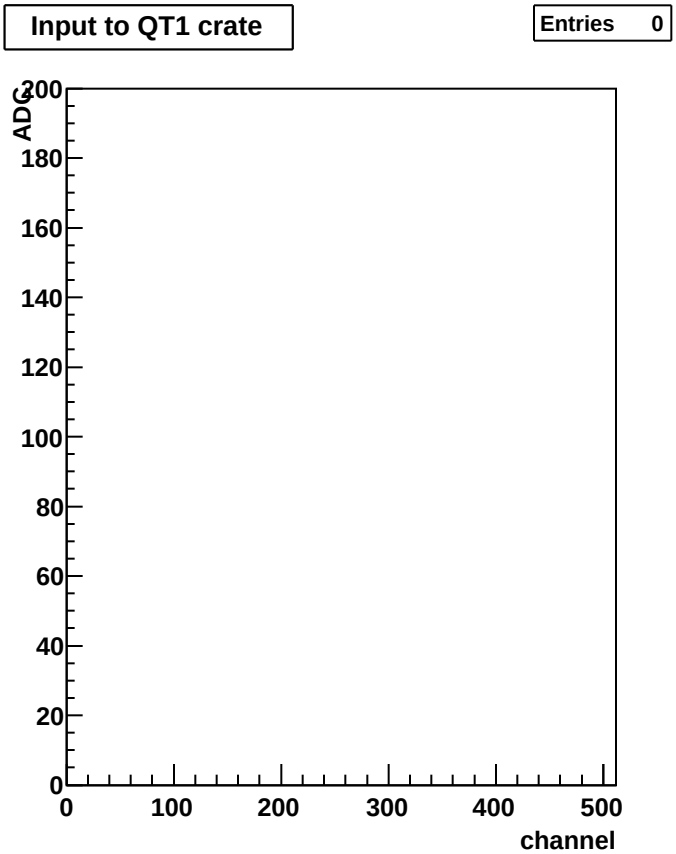

Entries 100000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

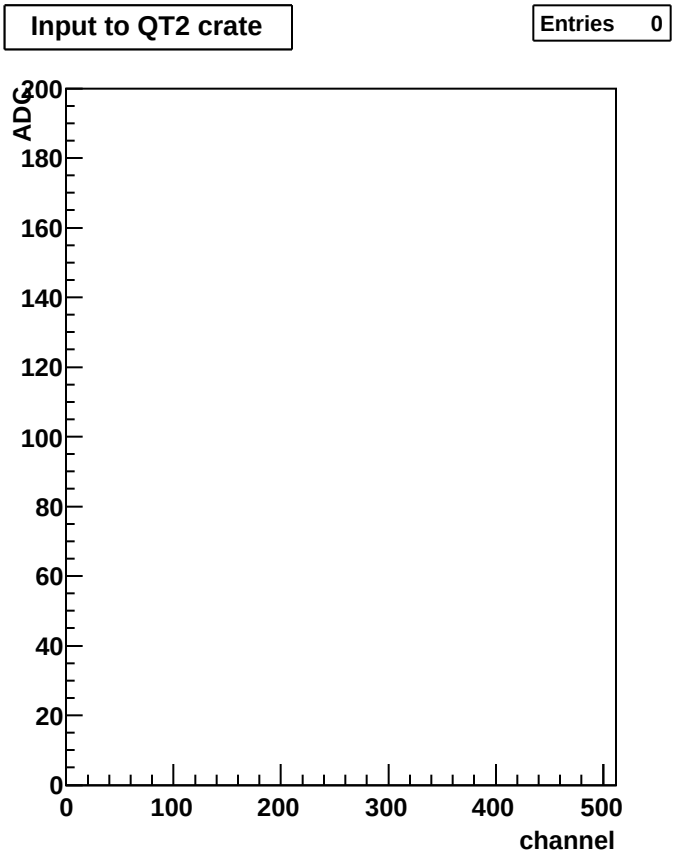

Entries 100000
BBC-L-East ADC Sum
BBC-L-West ADC Sum

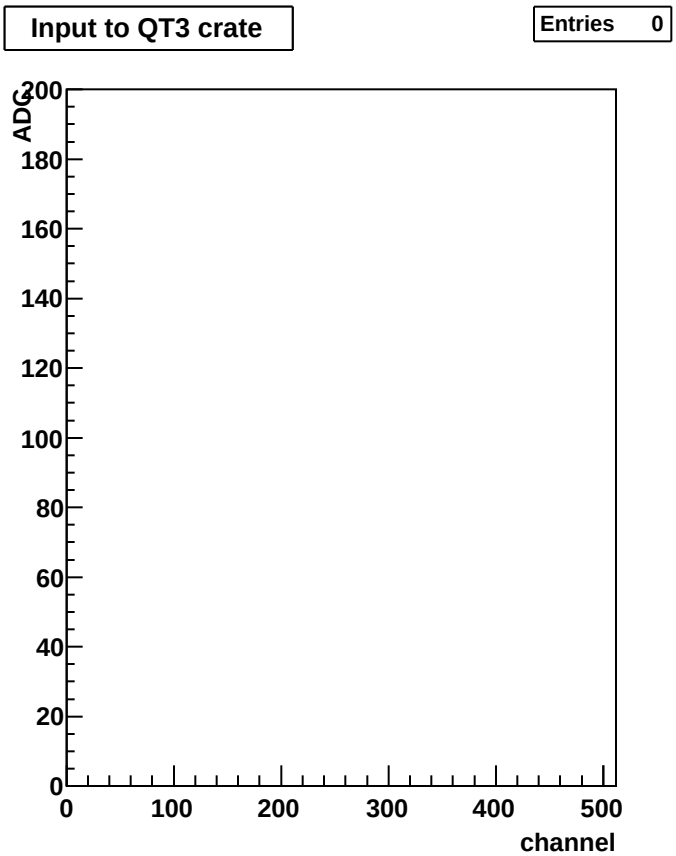

Entries 100000
BBC-S-East ADC Sum
BBC-S-West ADC Sum

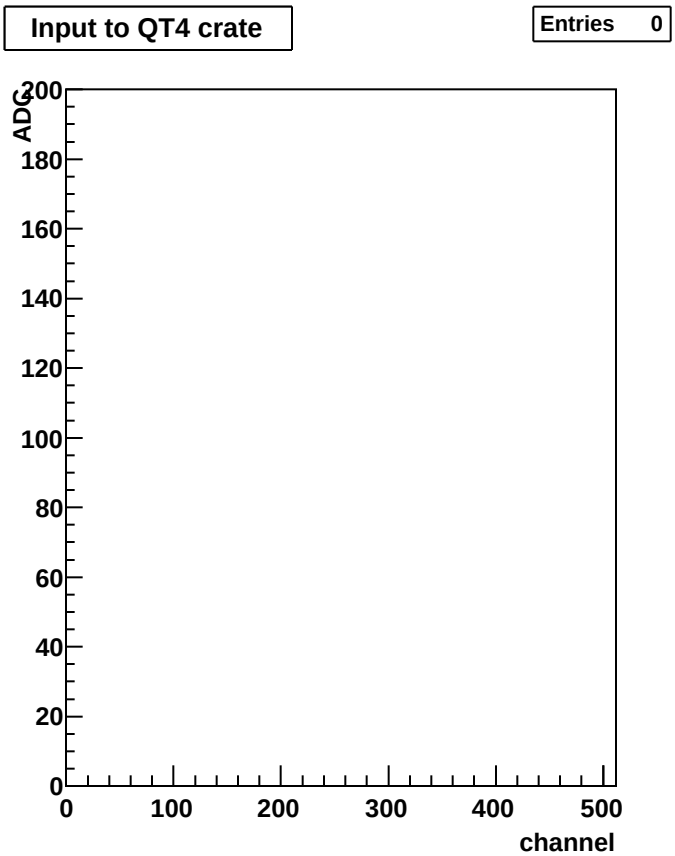

Entries 100000
ZDC East ADC Sum Att
ZDC West ADC Sum Att

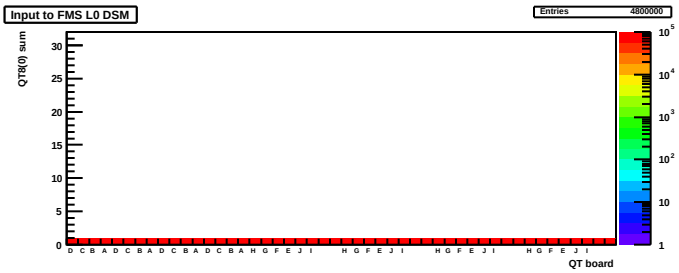

Entries 100000
BBC-L TAC Diff
BCC-S TAC Diff
Entries 100000
BBC-L TAC Diff
VPD TAC Diff
Entries 100000
BBC-L TAC Diff
ZDC TAC Diff
Entries 100000
BBC-S TAC Diff
VPD TAC Diff
Entries 100000
BBC-S TAC Diff
ZDC TAC Diff
Entries 100000
VPD TAC Diff
ZDC TAC Diff

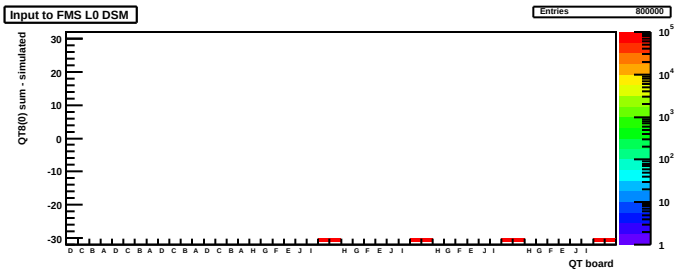

Input to QT1 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

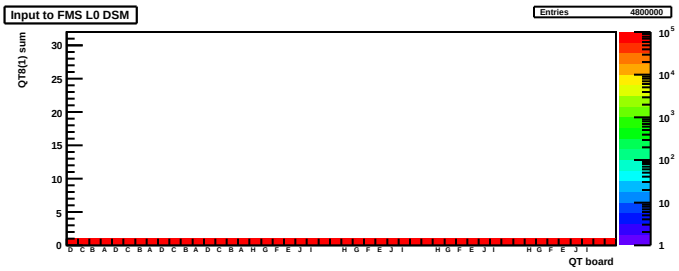

Input to QT2 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

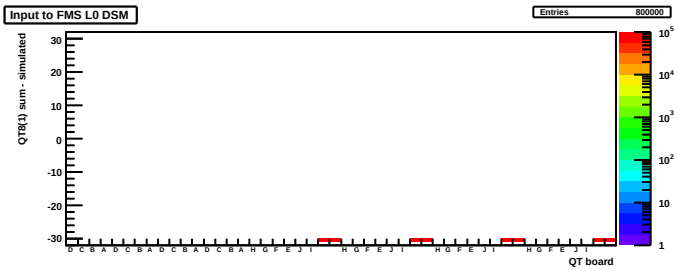

Input to QT3 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

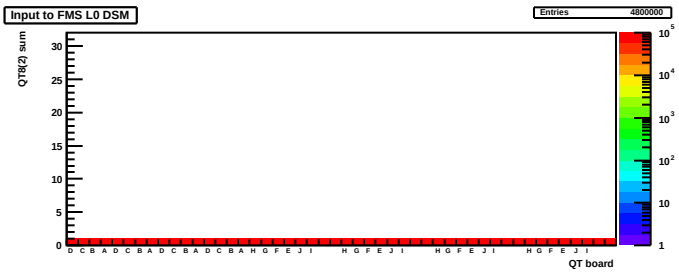

Input to QT4 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

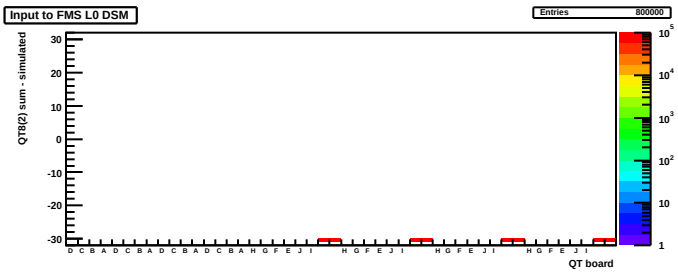

Input to FMS L0 DSM
Entries 4800000
QT8(0) sum
QT board

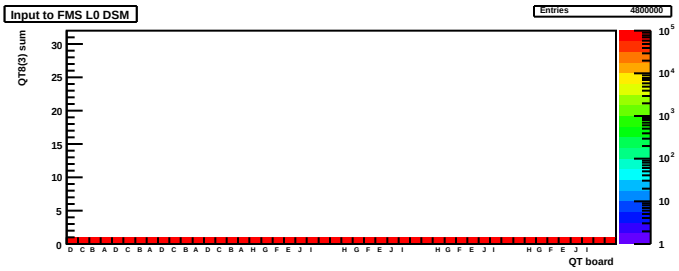

Input to FMS L0 DSM
Entries 800000
QT8(0) sum - simulated
QT board

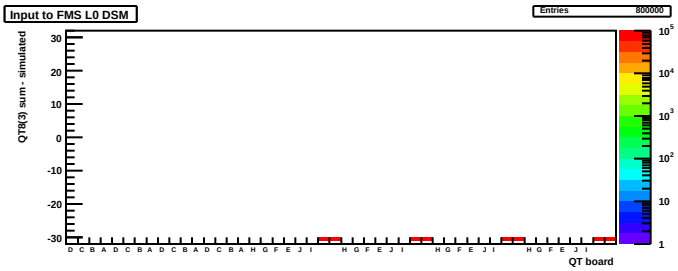

Input to FMS L0 DSM
Entries 4800000
QT8(1) sum
QT board

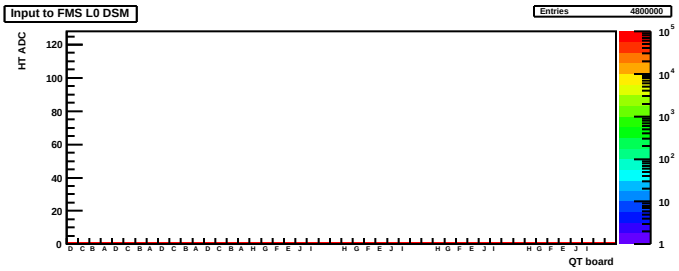

Input to FMS L0 DSM
Entries 800000
QT8(1) sum - simulated
QT board

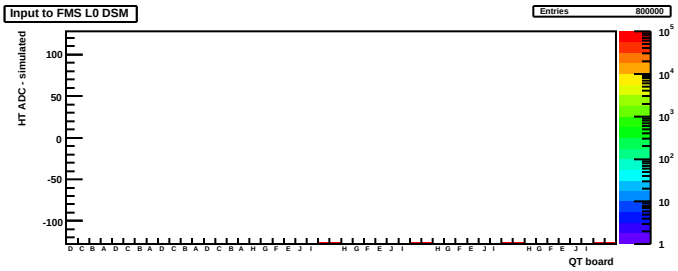

Input to FMS L0 DSM
Entries 4800000
QT8(2) sum
QT board

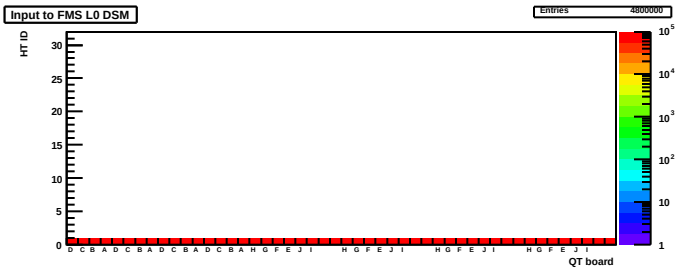

Input to FMS L0 DSM
Entries 800000
QT8(2) sum - simulated
QT board

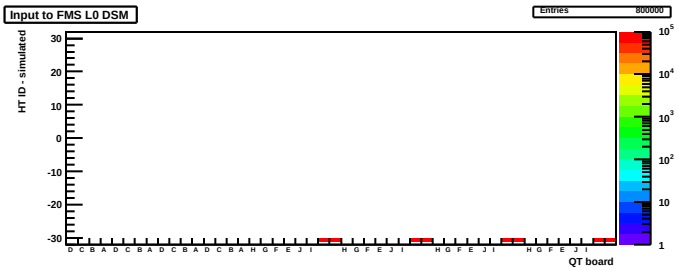

Input to FMS L0 DSM
Entries 4800000
QT8(3) sum
QT board

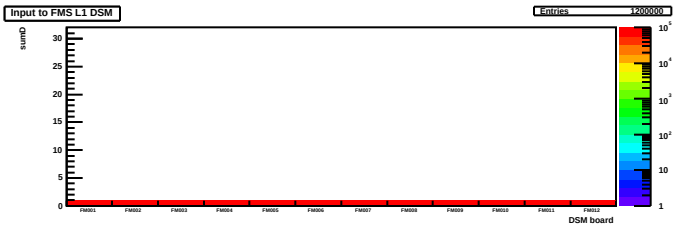

Input to FMS L0 DSM
Entries 800000
QT8(3) sum - simulated
QT board

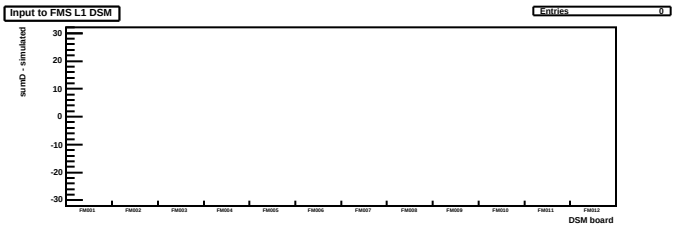

Input to FMS L0 DSM
Entries 4800000
HT ADC
QT board

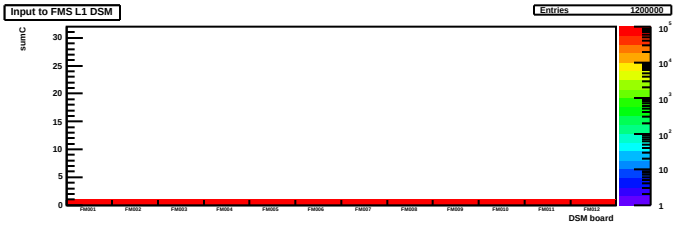

Input to FMS L0 DSM
Entries 800000
HT ADC - simulated
QT board

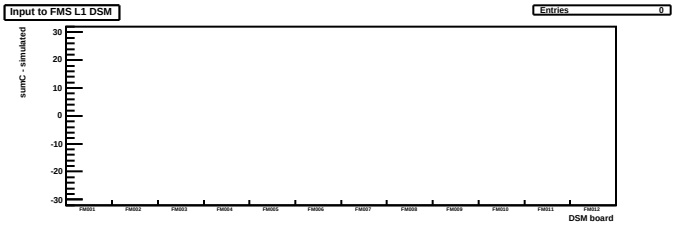

Input to FMS L0 DSM
Entries 4800000
HT ID
QT board

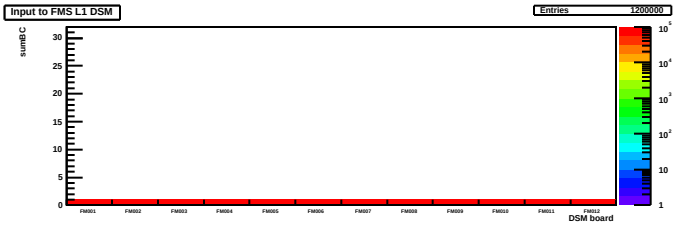

Input to FMS L0 DSM
Entries 800000
HT ID - simulated
QT board

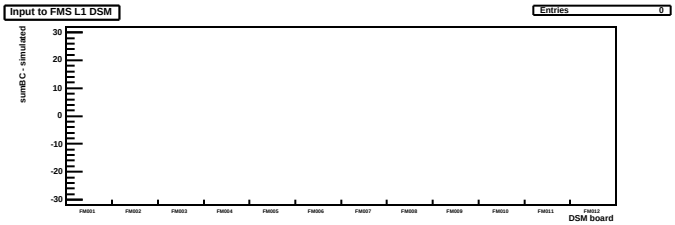

Input to FMS L1 DSM
Entries 1200000
sumD
DSM board

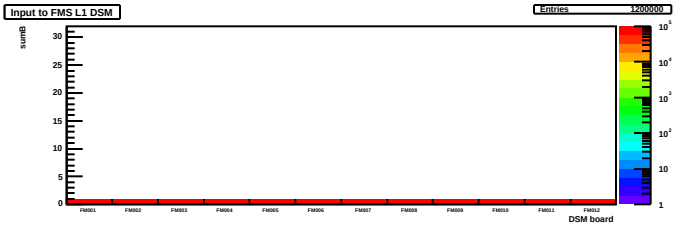

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

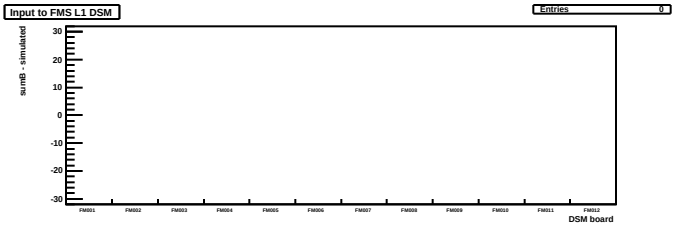

Input to FMS L1 DSM
Entries 1200000
sumC
DSM board

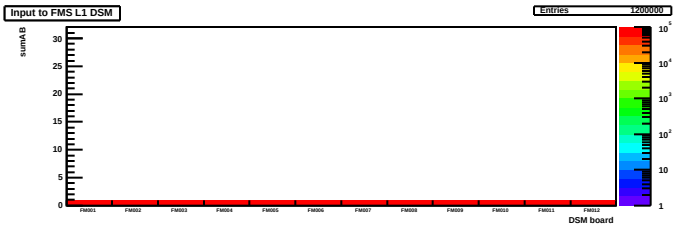

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

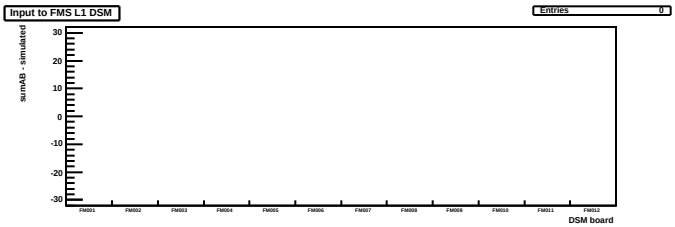

Input to FMS L1 DSM
Entries 1200000
sumBC
DSM board

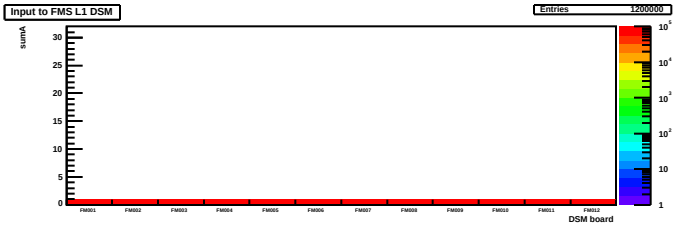

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

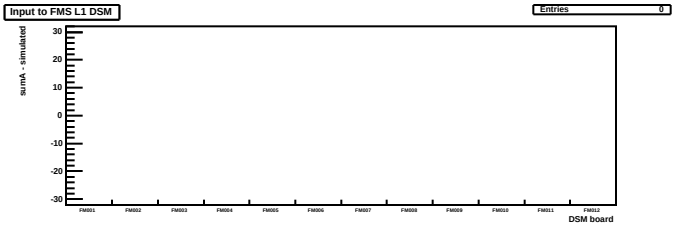

Input to FMS L1 DSM
Entries 1200000
sumB
DSM board

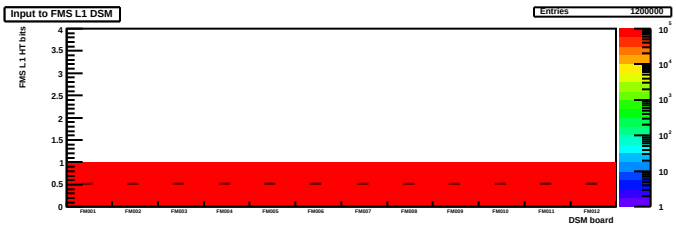

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

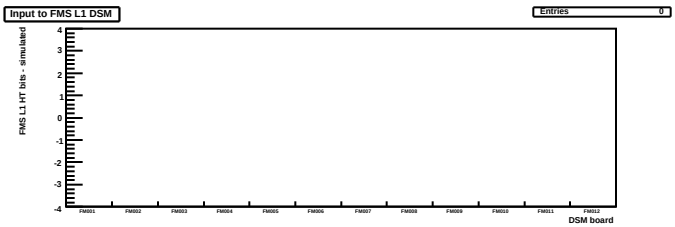

Input to FMS L1 DSM
Entries 1200000
sumAB
DSM board

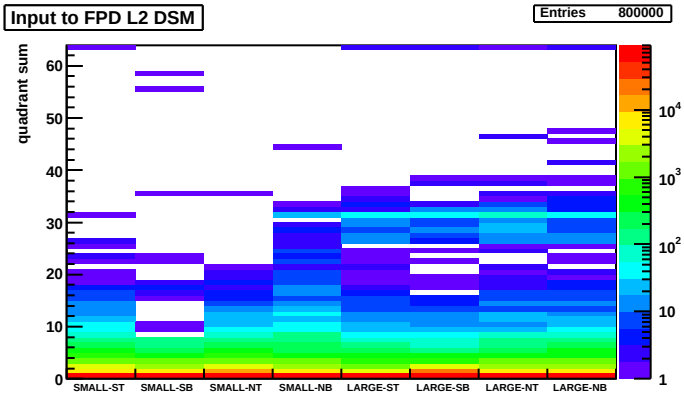

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

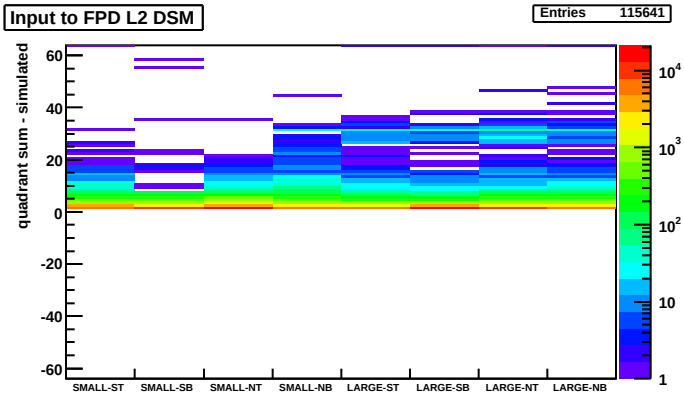

Input to FMS L1 DSM
Entries 1200000
sumA
DSM board

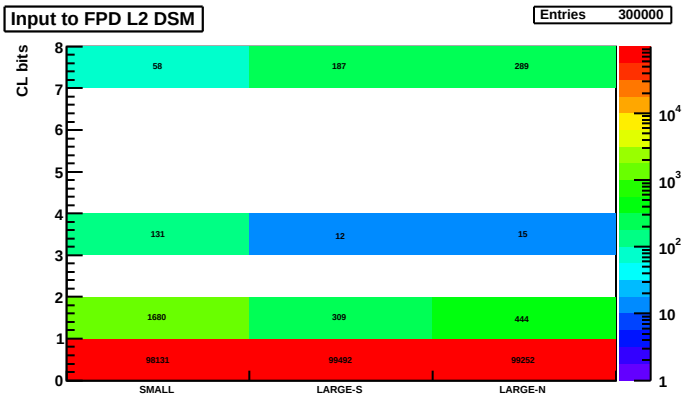

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

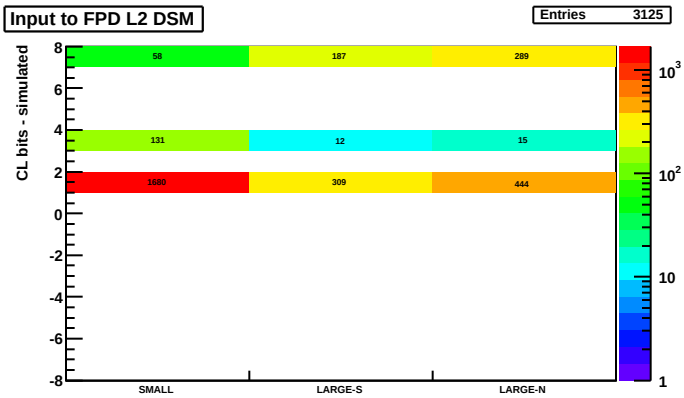

Input to FMS L1 DSM
Entries 1200000
FMS L1 HT bits
DSM board

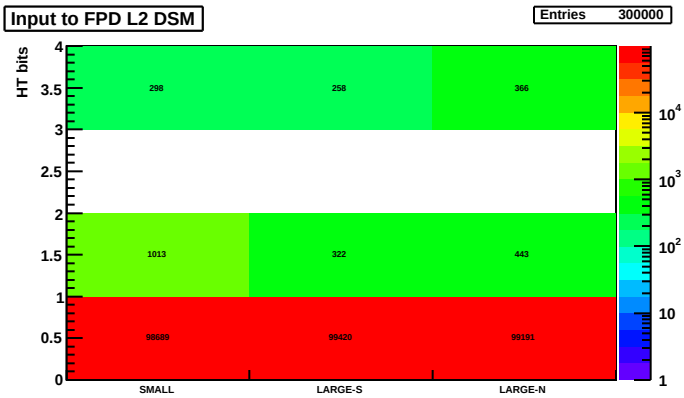

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

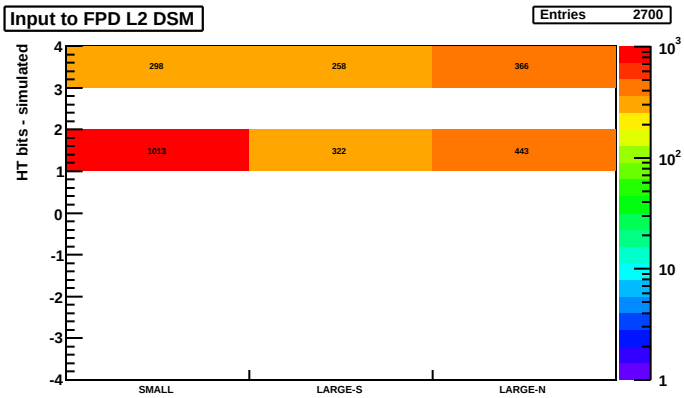

Input to FPD L2 DSM
Entries 800000
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

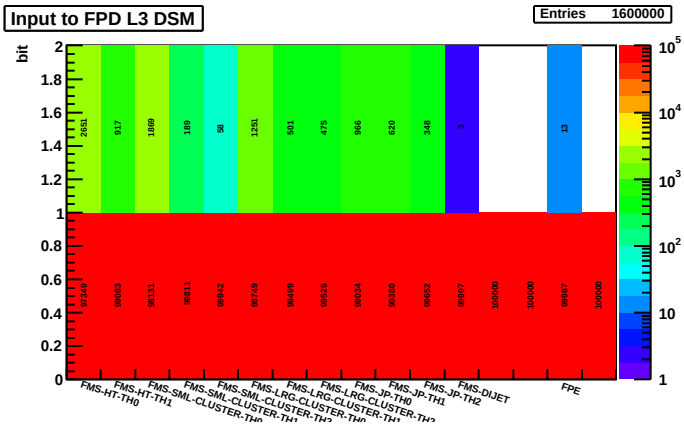

Input to FPD L2 DSM
Entries 115641
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

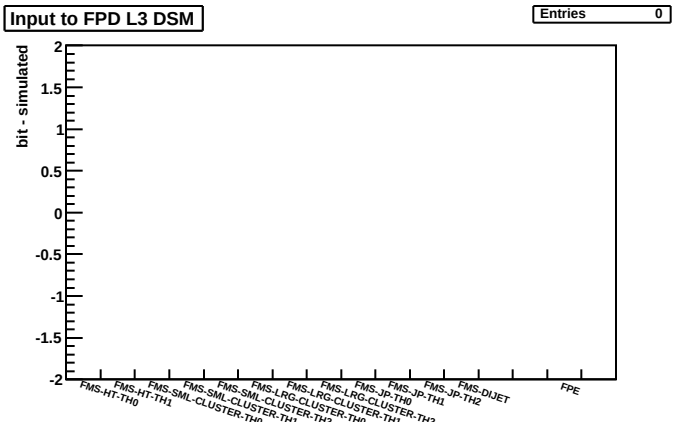

Input to FPD L2 DSM
Entries 300000
CL bits
58
187
289
131
12
15
1680
309
444
98131
99492
99252
SMALL
LARGE-S
LARGE-N

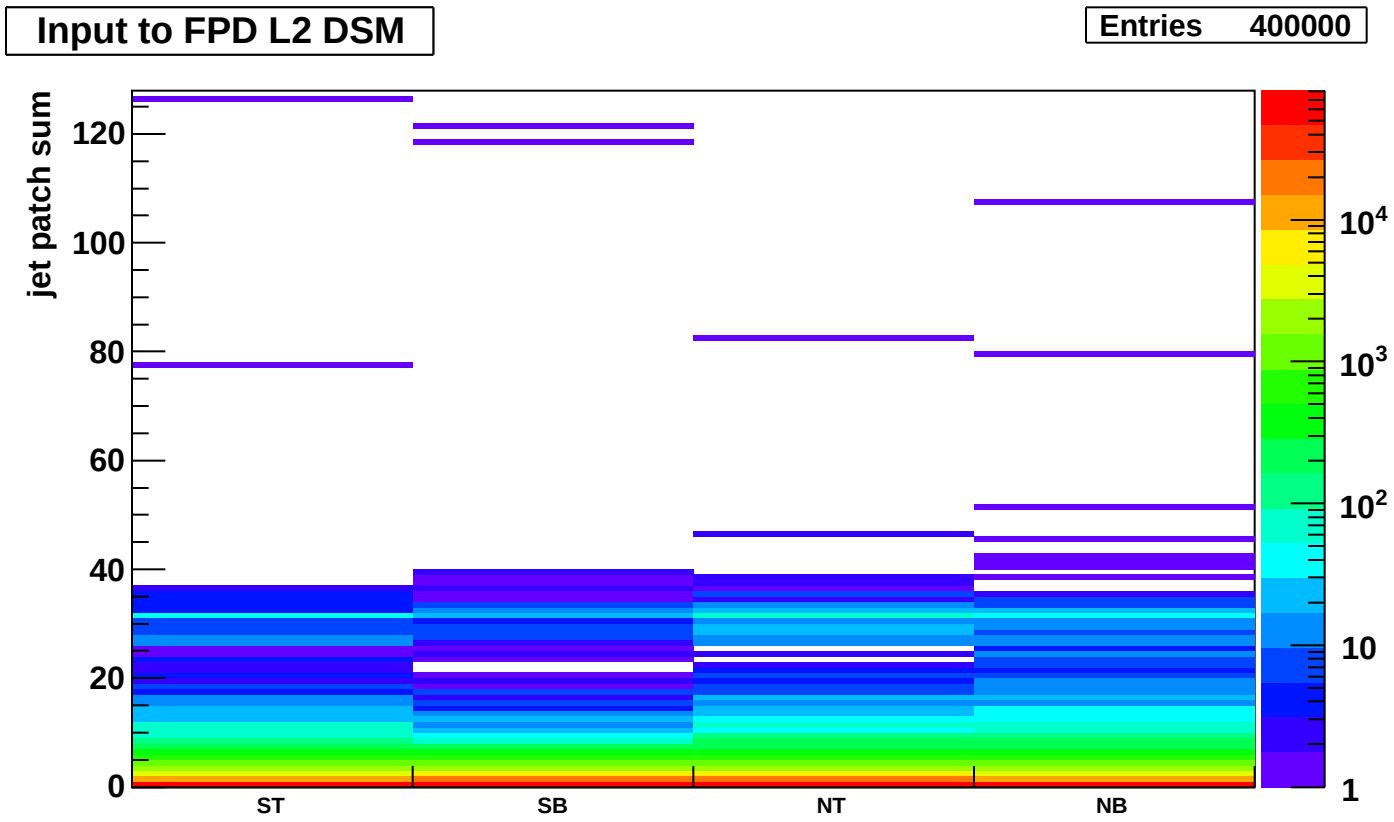

Input to FPD L2 DSM
Entries 3125
CL bits - simulated
58
187
289
131
12
15
1680
309
444
SMALL
LARGE-S
LARGE-N

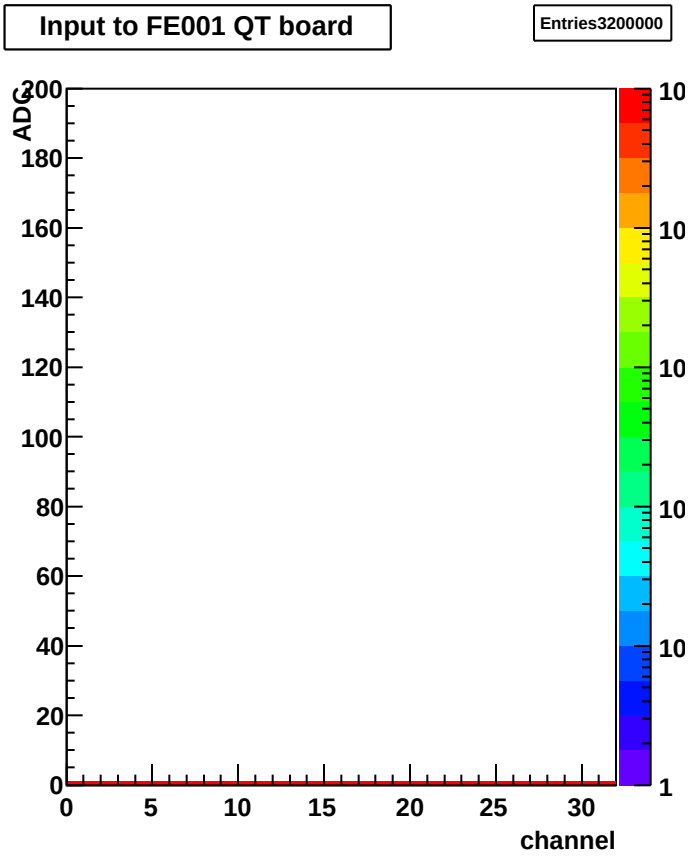

Input to FPD L2 DSM
Entries 300000
HT bits
298
258
366
1013
322
443
98689
99420
99191
SMALL
LARGE-S
LARGE-N

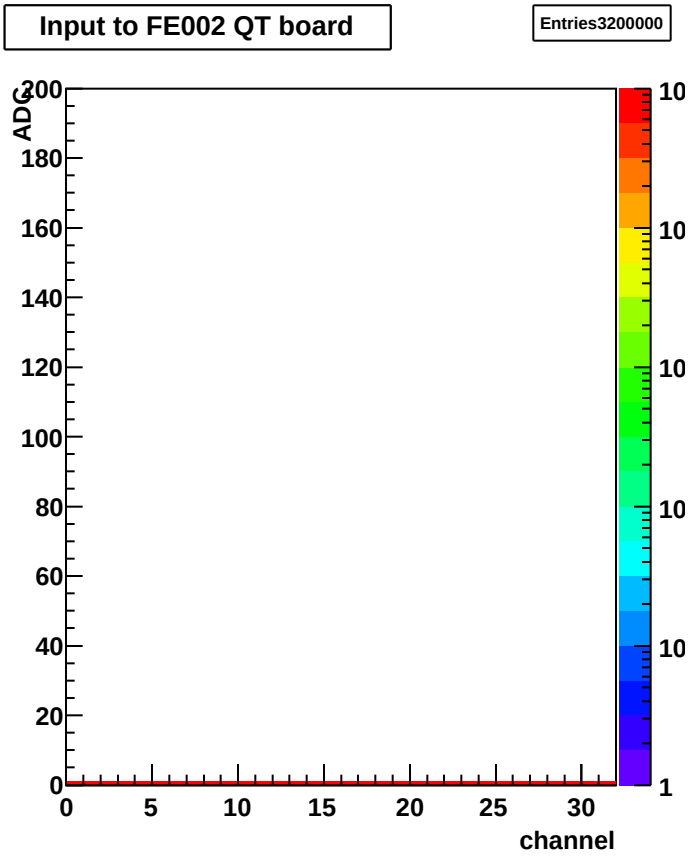

Input to FPD L2 DSM
Entries 2700
HT bits - simulated
298
258
366
1013
322
443
SMALL
LARGE-S
LARGE-N

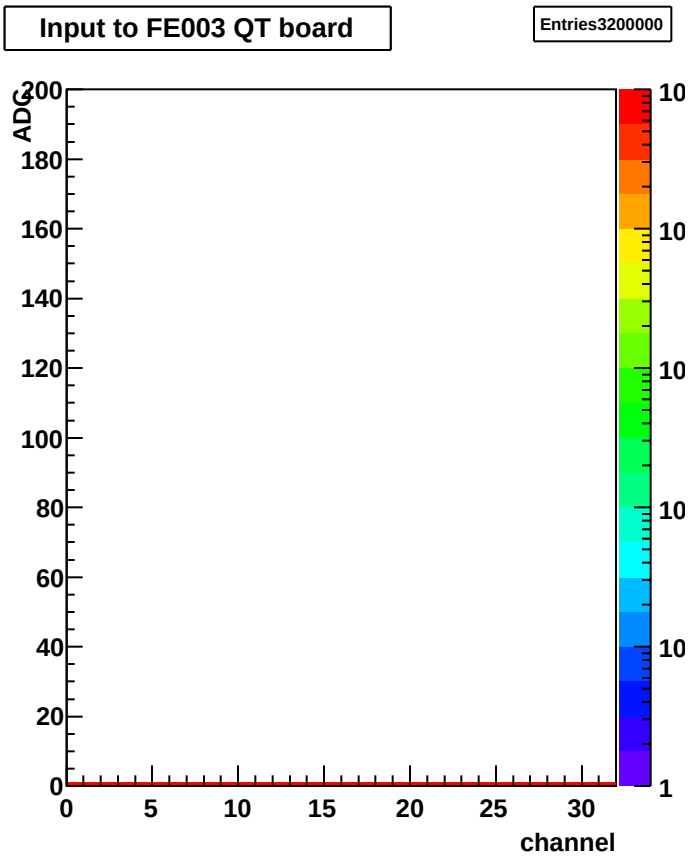

Input to FPD L3 DSM
Entries 1600000
bit
2631
917
1869
189
58
1251
501
475
966
620
348
3
13
97349
99083
99131
99811
99942
98749
99499
99525
99034
99380
99652
99997
100000
100000
99997
100000
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

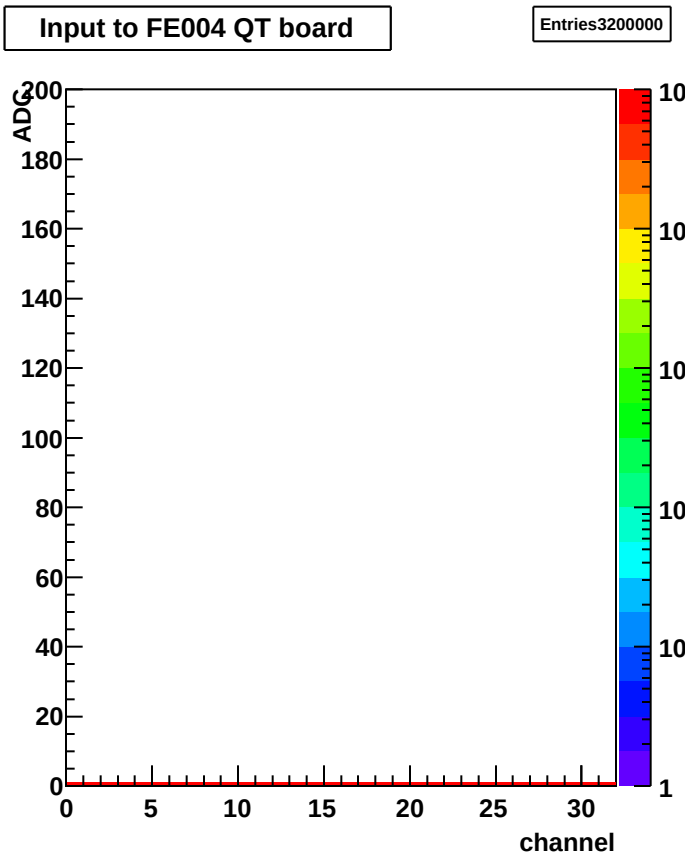

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

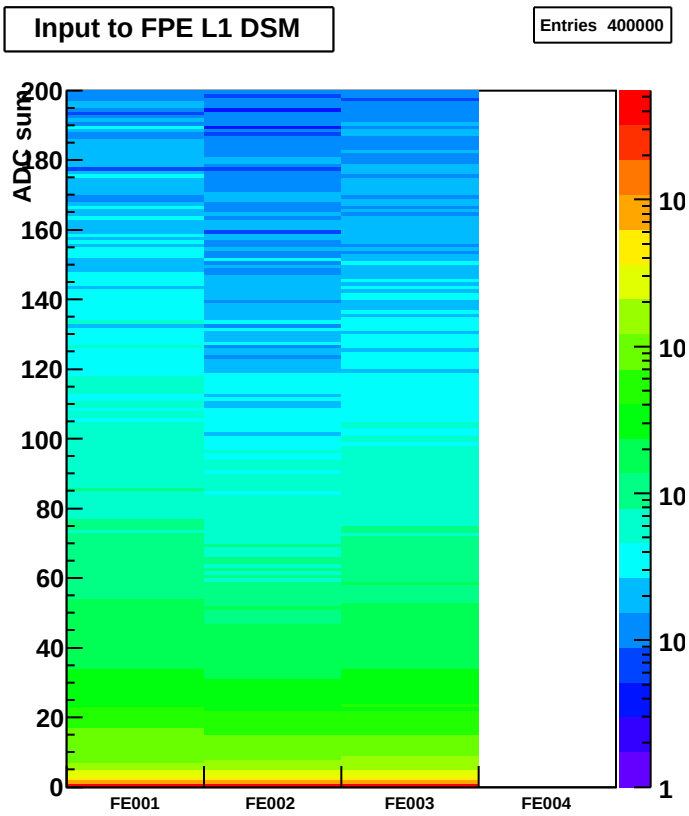

Input to FPD L2 DSM
Entries 400000
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

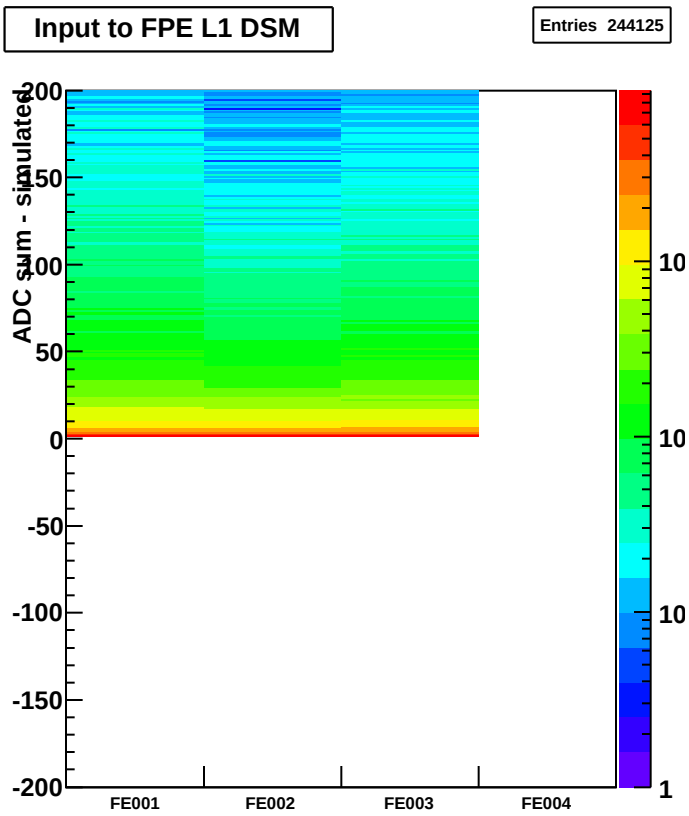

Input to FE001 QT board
Entries3200000
ADC
channel

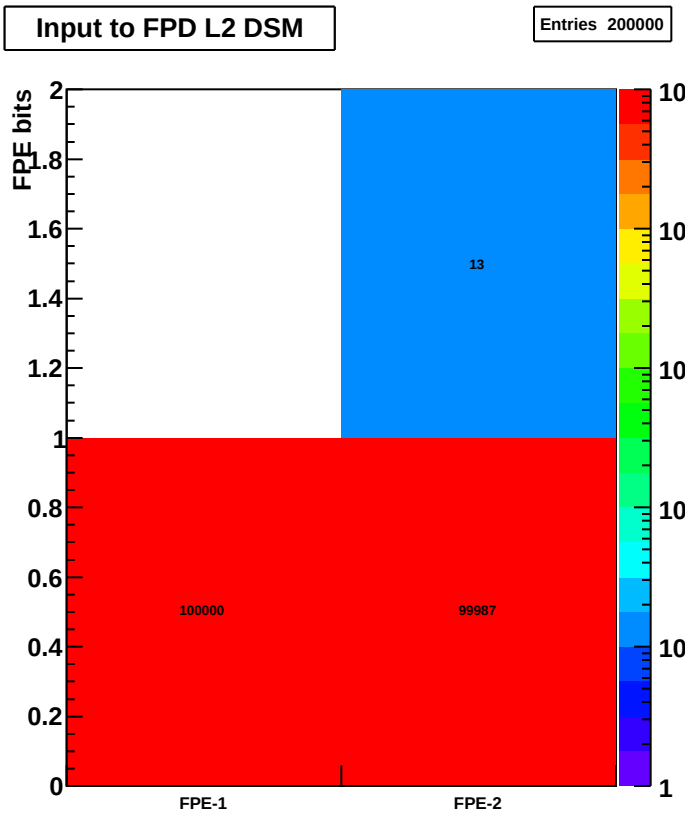

Input to FE002 QT board
Entries3200000
ADC
channel

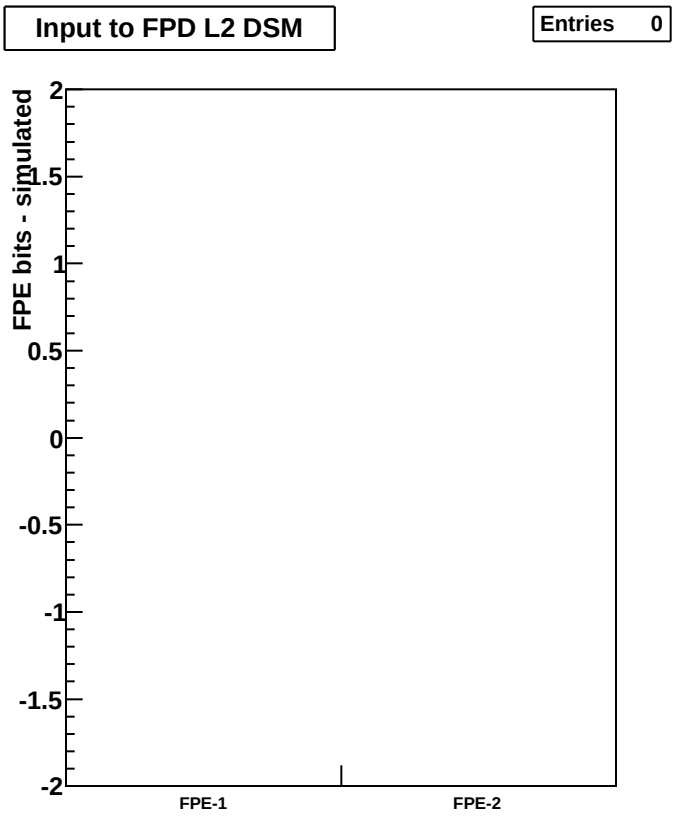

Input to FE003 QT board
Entries3200000
ADC
channel


Input to FE004 QT board
Entries3200000
ADC
channel


Input to FPE L1 DSM
Entries 400000
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 244125
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 200000
FPE bits
13
100000
99987
FPE-1
FPE-2


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