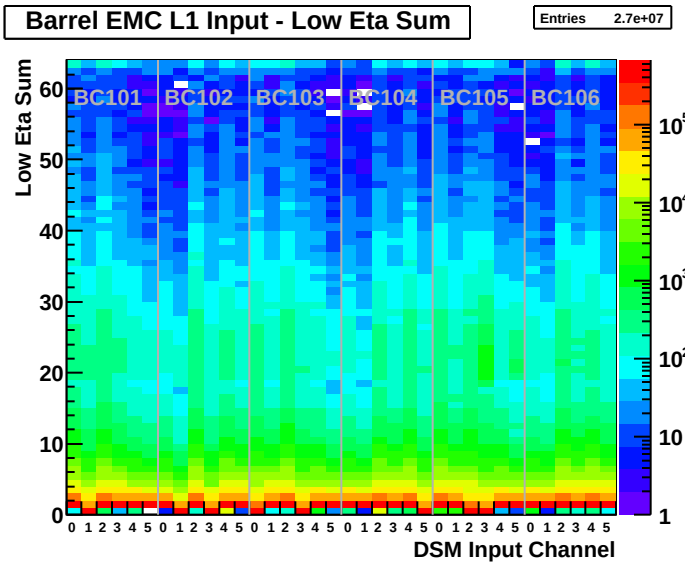
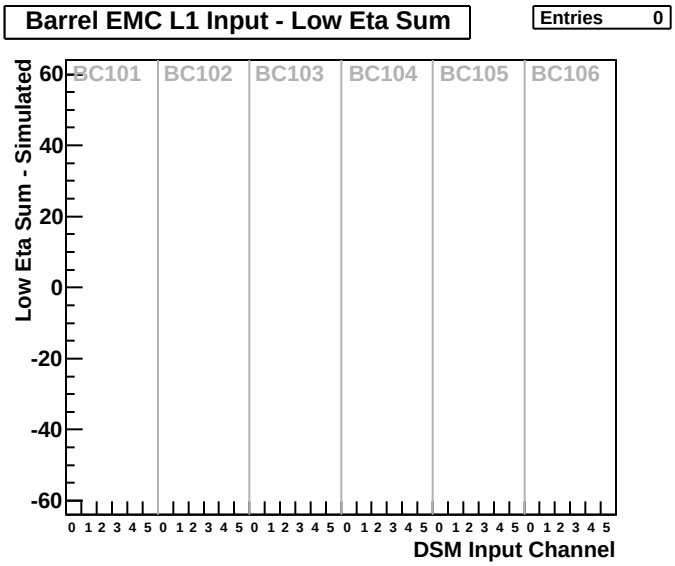
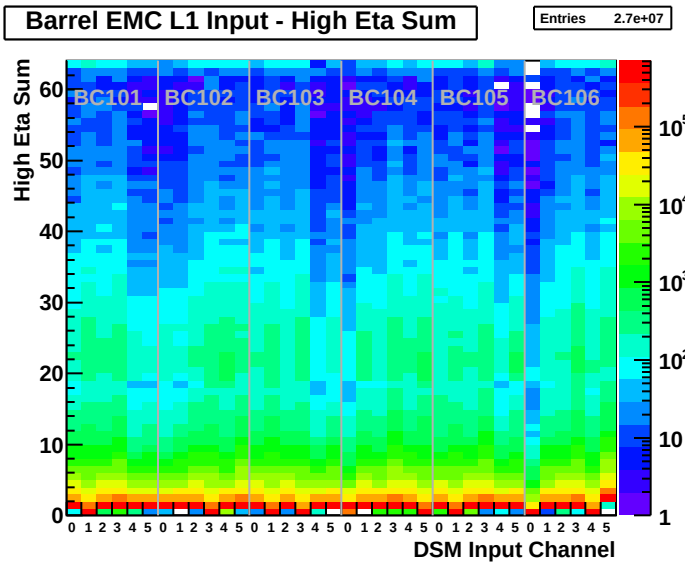
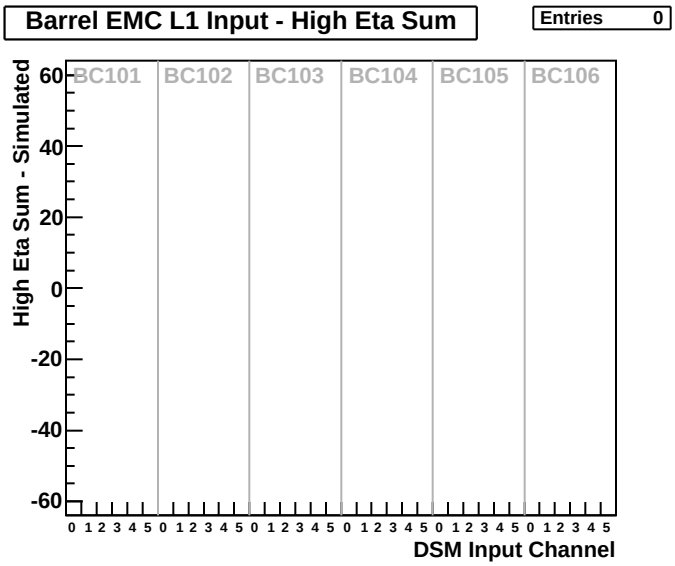
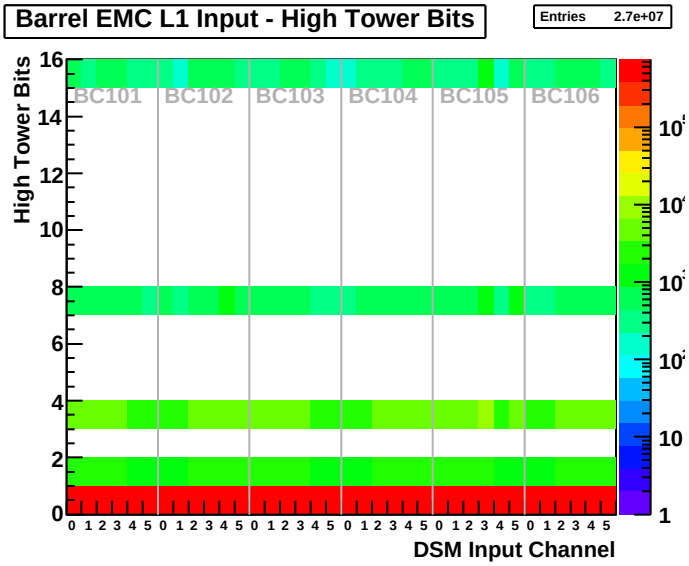
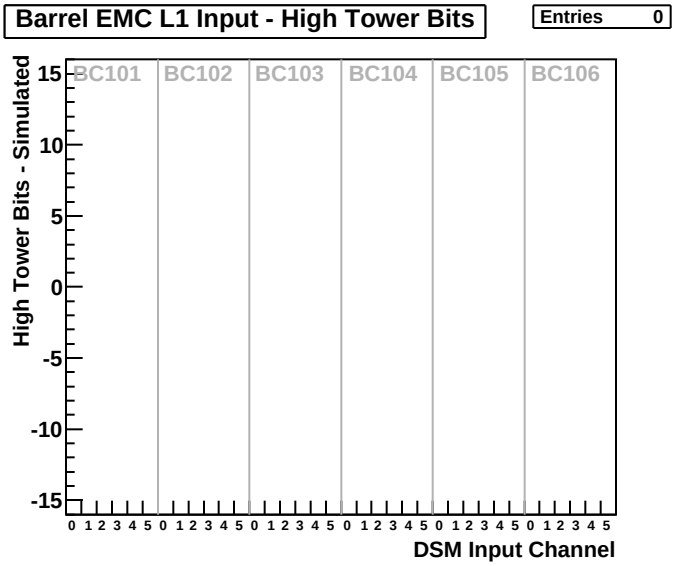

Barrel EMC L1 Input - Low Eta Sum
Entries 2.7e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

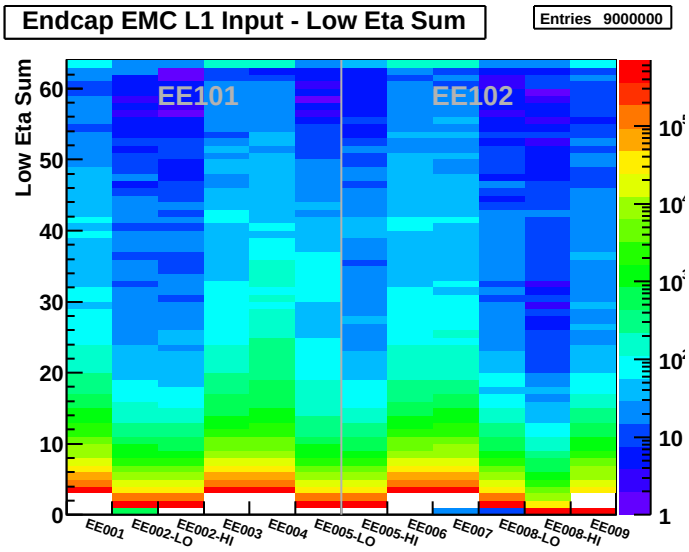

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

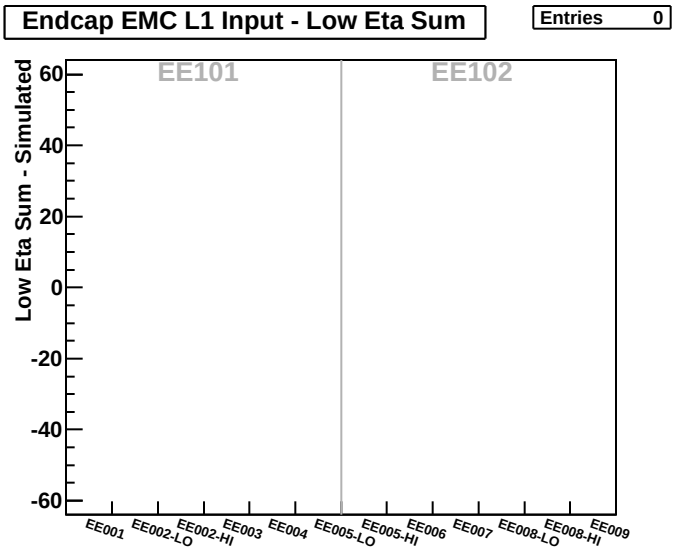

Barrel EMC L1 Input - High Eta Sum
Entries 2.7e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

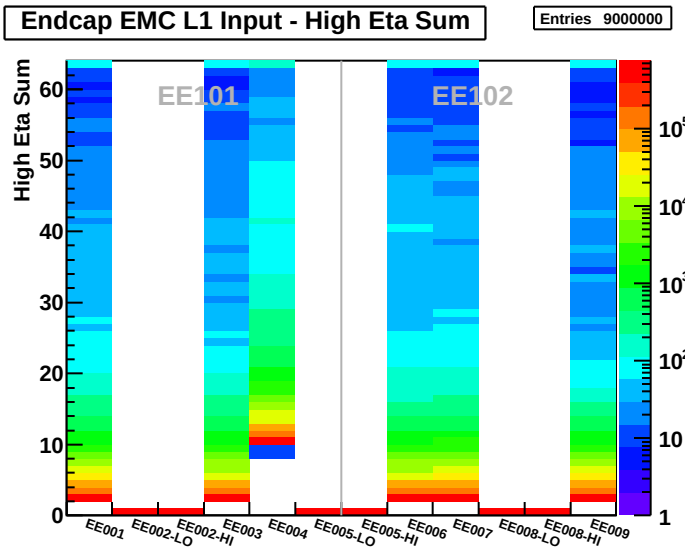

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

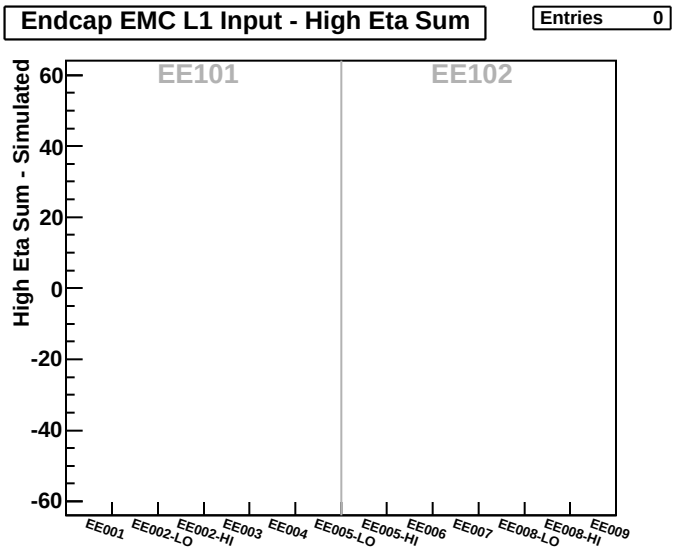

Barrel EMC L1 Input - High Tower Bits
Entries 2.7e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

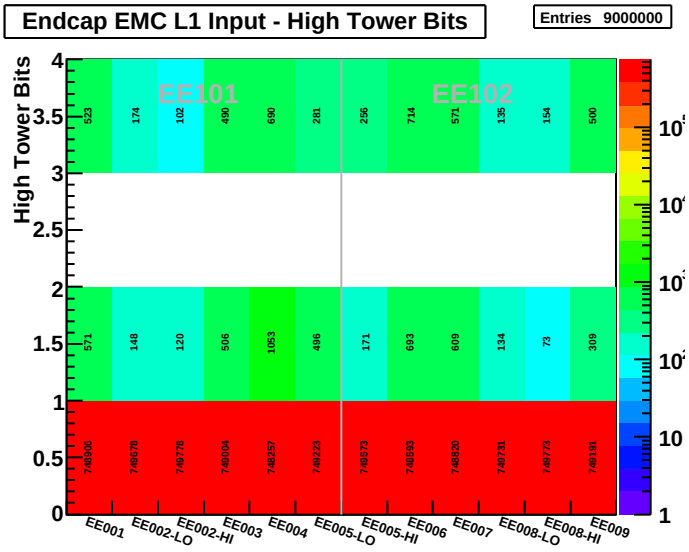

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

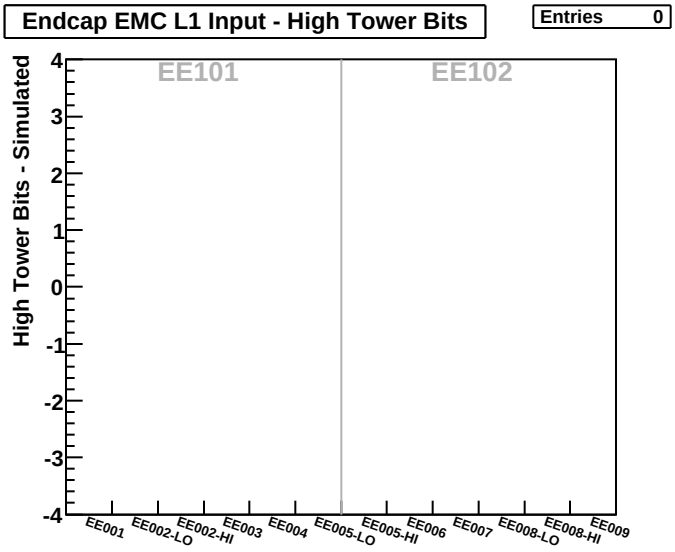

Endcap EMC L1 Input - Low Eta Sum
Entries 9000000
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

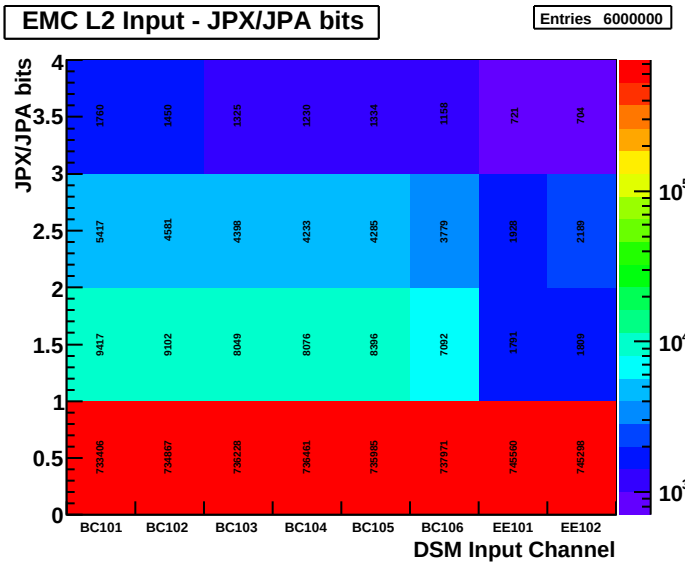

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

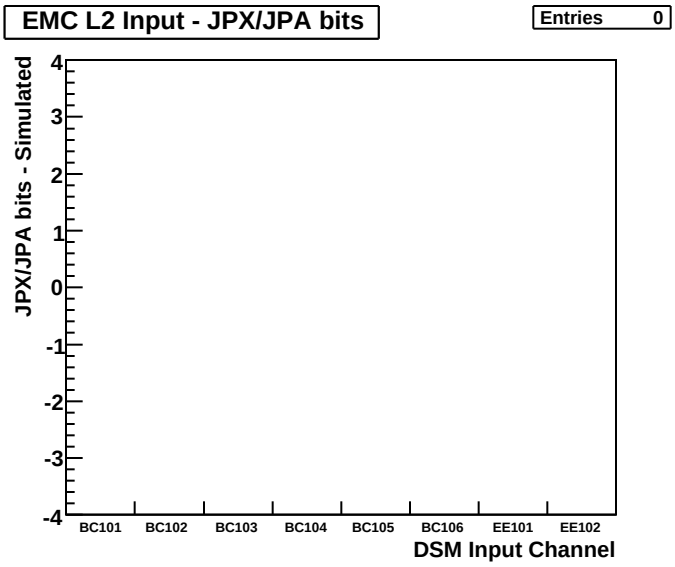

Endcap EMC L1 Input - High Eta Sum
Entries 9000000
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

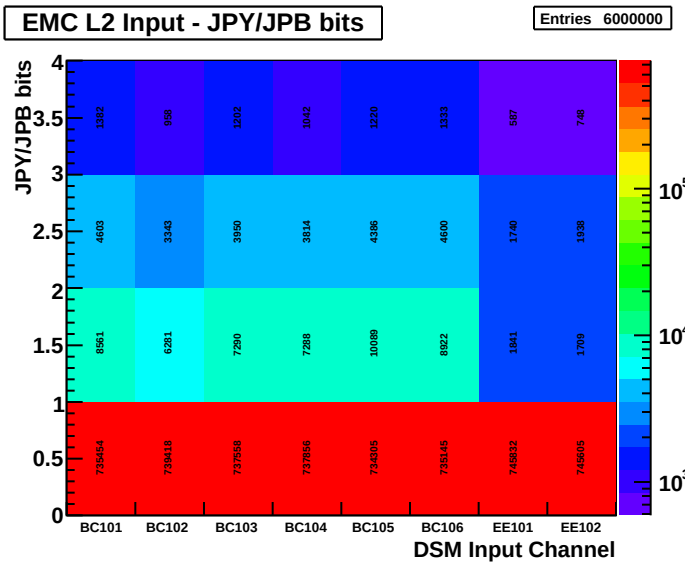

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

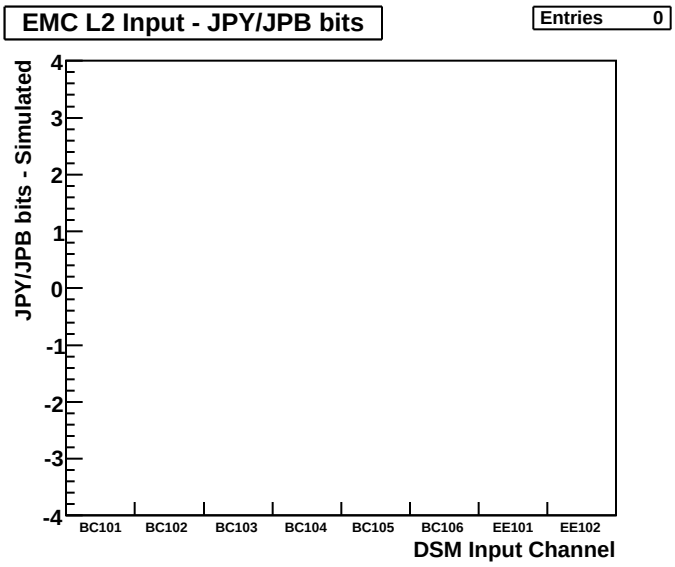

Endcap EMC L1 Input - High Tower Bits
Entries 9000000
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

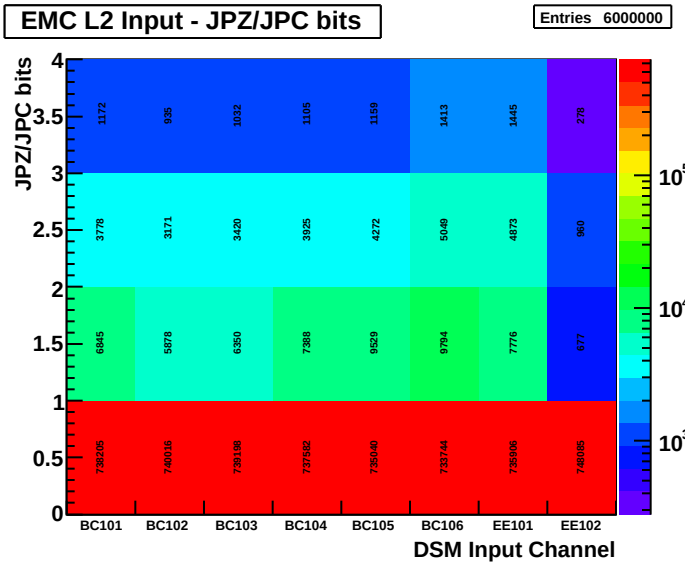

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

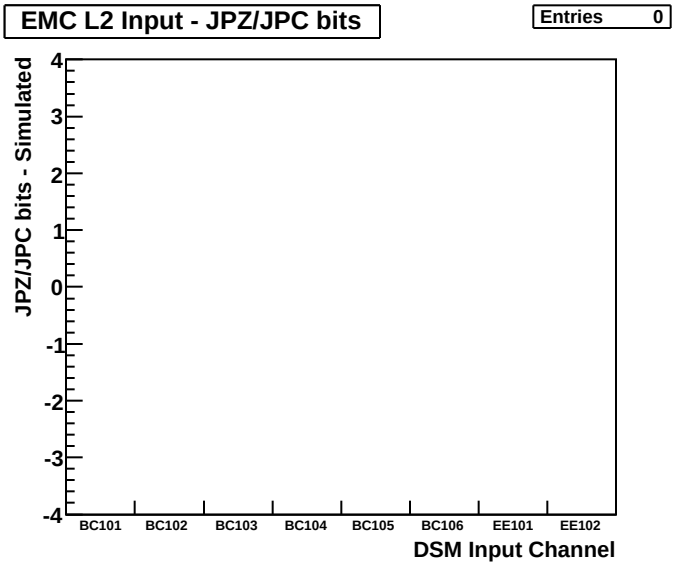

EMC L2 Input - JPX/JPA bits
Entries 6000000
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1760 1450 1325 1230 1334 1158 721 704
5417 4581 4398 4233 4285 3779 1928 2189
9417 9102 8049 8076 8396 7092 1791 1809
733406 734867 736228 736461 735985 737971 745560 745298

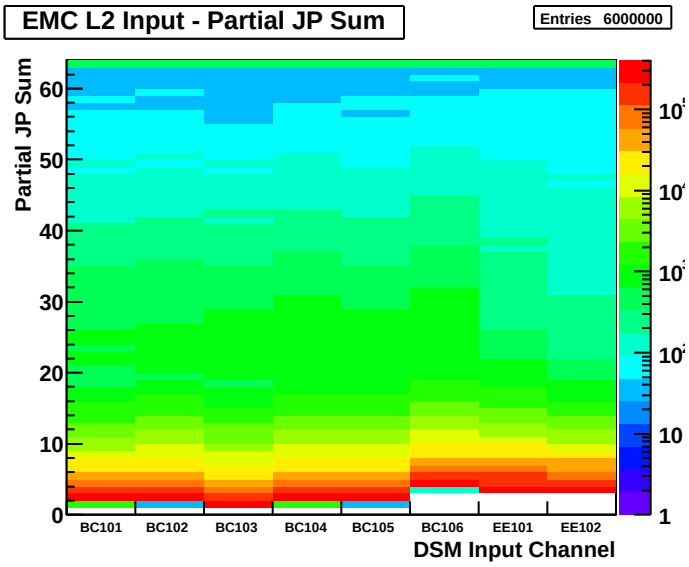

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

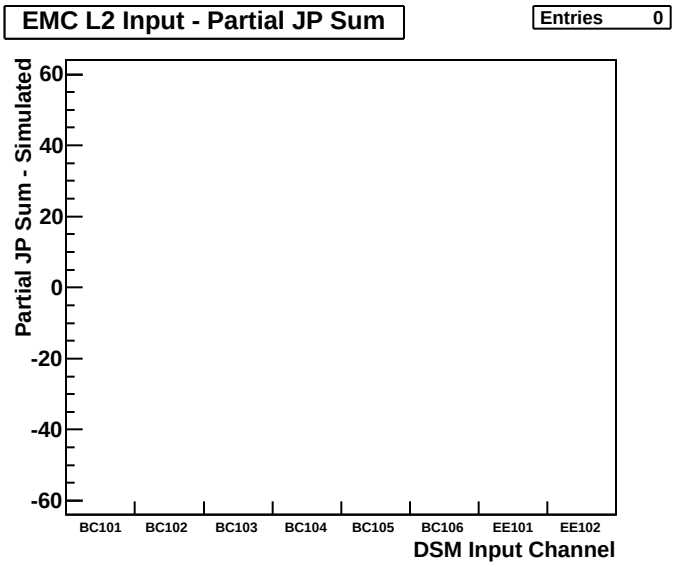

EMC L2 Input - JPY/JPB bits
Entries 6000000
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1382 958 1202 1042 1220 1333 587 748
4603 3343 3950 3814 4386 4600 1740 1938
8561 6281 7290 7288 10089 8922 1841 1709
735454 739418 737558 737856 734305 735145 745832 745605

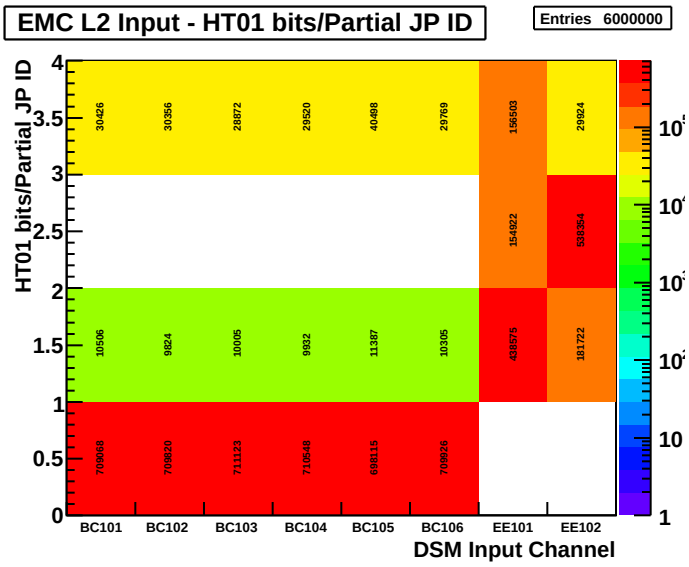

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

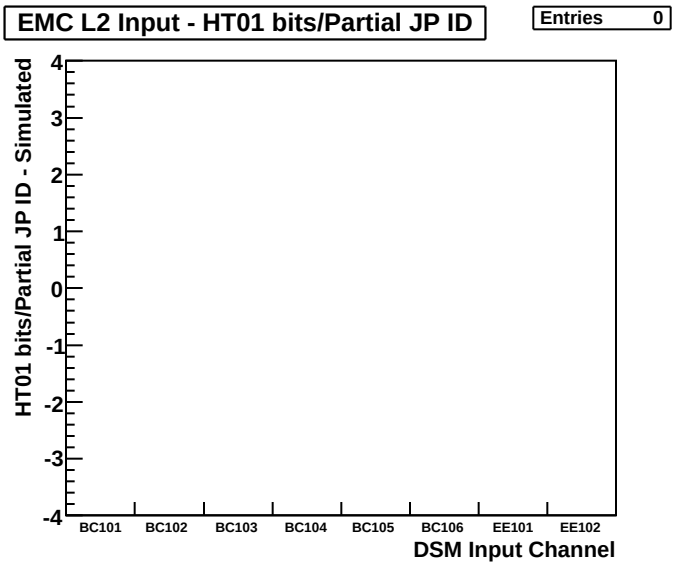

EMC L2 Input - JPZ/JPC bits
Entries 6000000
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1172 935 1032 1105 1159 1413 1445 278
3778 3171 3420 3925 4272 5049 4873 960
6845 5578 6350 7388 9529 9794 7776 677
738205 740016 739198 737582 735040 733744 735906 748085

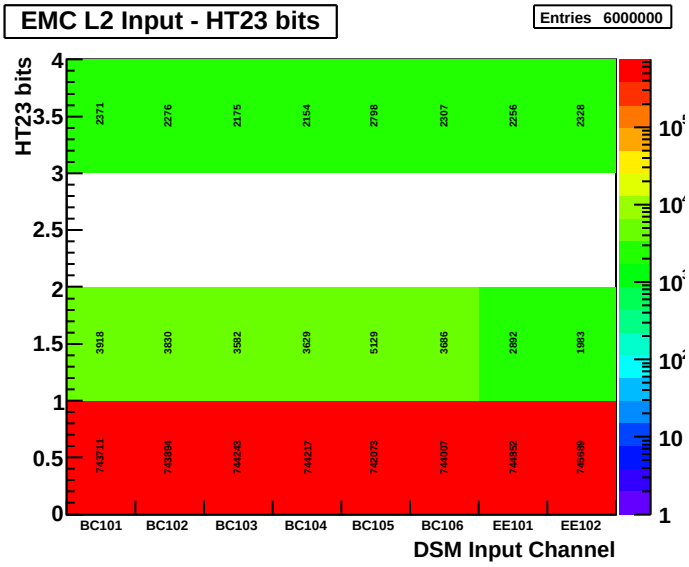

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

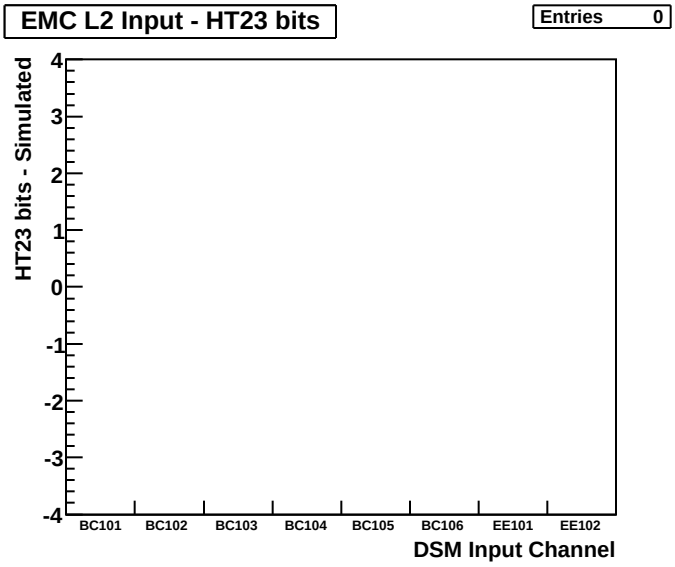

EMC L2 Input - Partial JP Sum
Entries 6000000
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

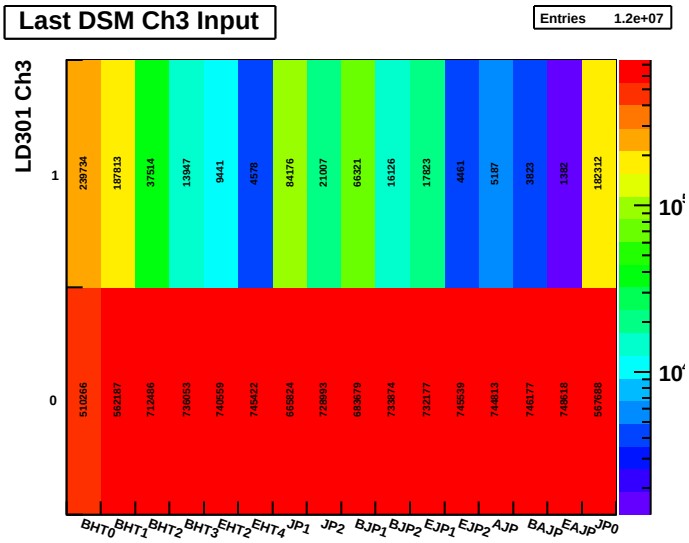

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

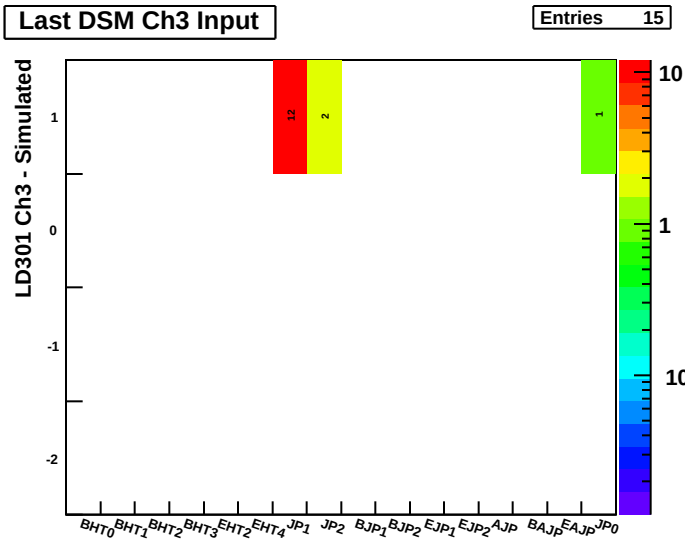

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6000000
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

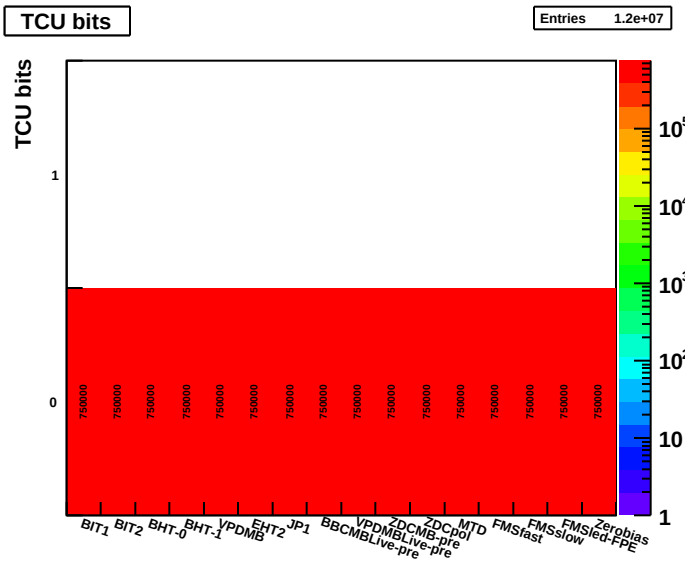

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

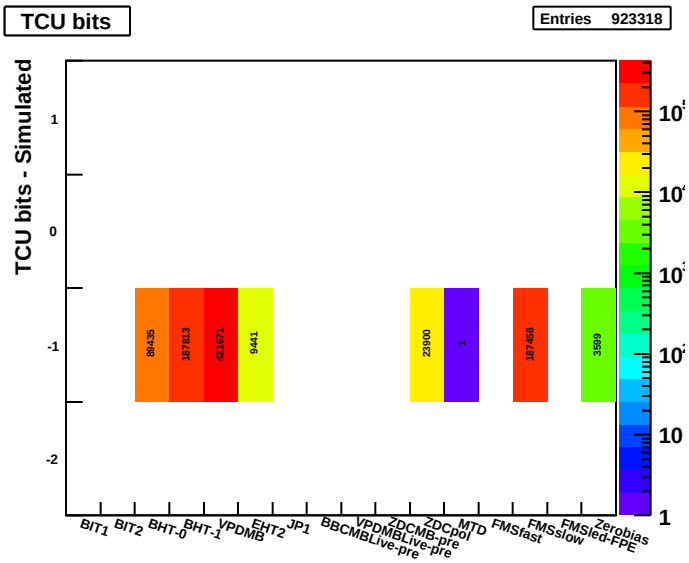

EMC L2 Input - HT23 bits
Entries 6000000
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

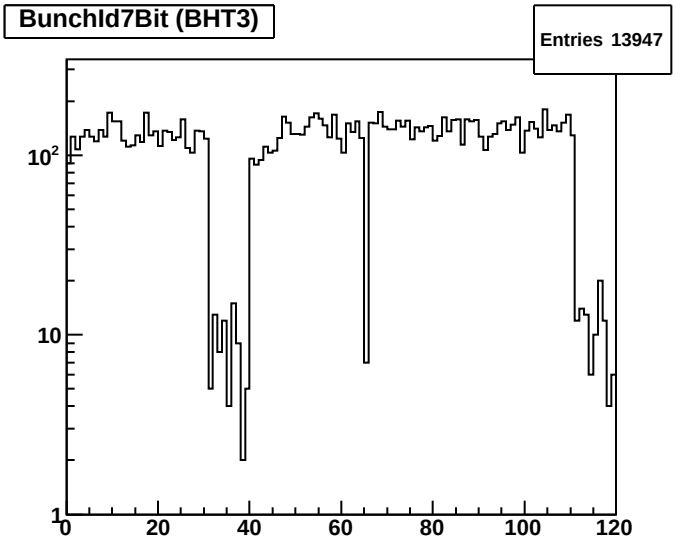

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

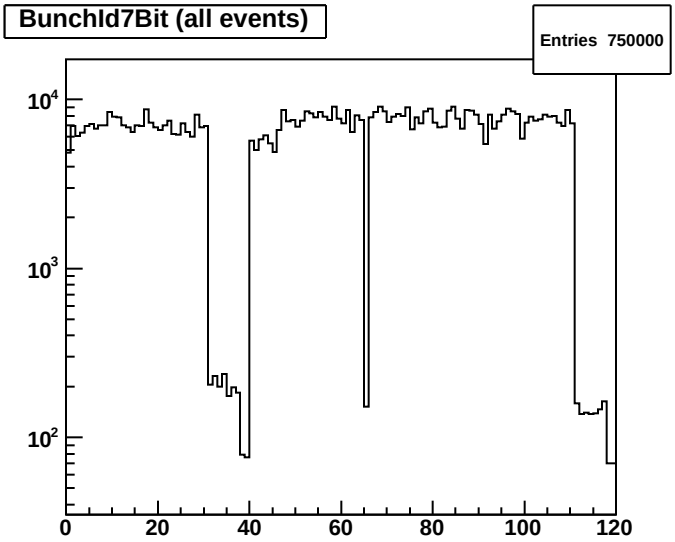

Last DSM Ch3 Input
Entries 1.2e+07
LD301 Ch3
239734 187813 37514 13947 9441 4578 84176 21007 66321 16126 17823 4461 5187 3823 1382 182312
510266 562187 712486 736053 740559 745422 665824 728993 683679 733874 732177 745539 744813 746177 748618 567688
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

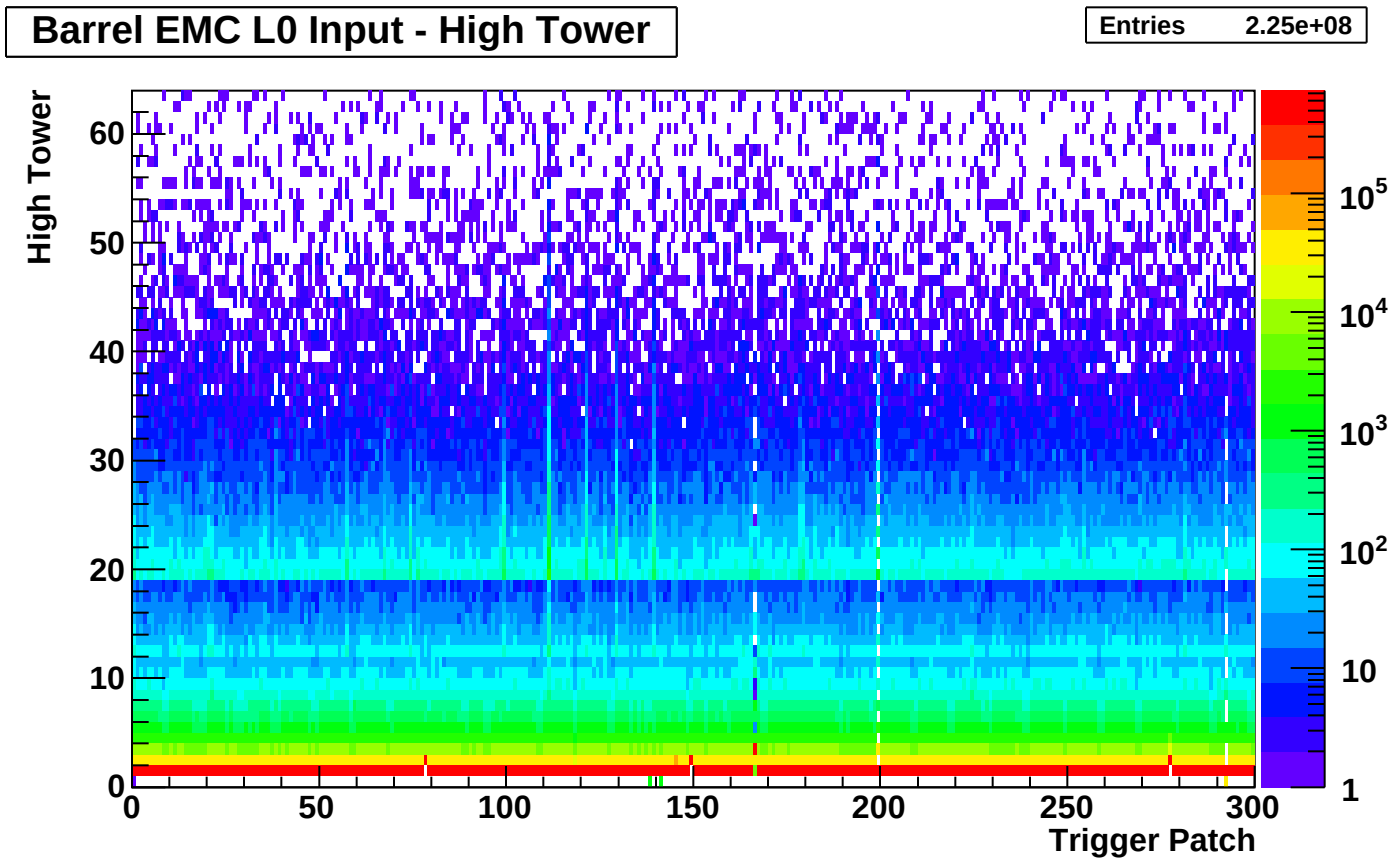

Last DSM Ch3 Input
Entries 15
LD301 Ch3 - Simulated
12 2 1
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

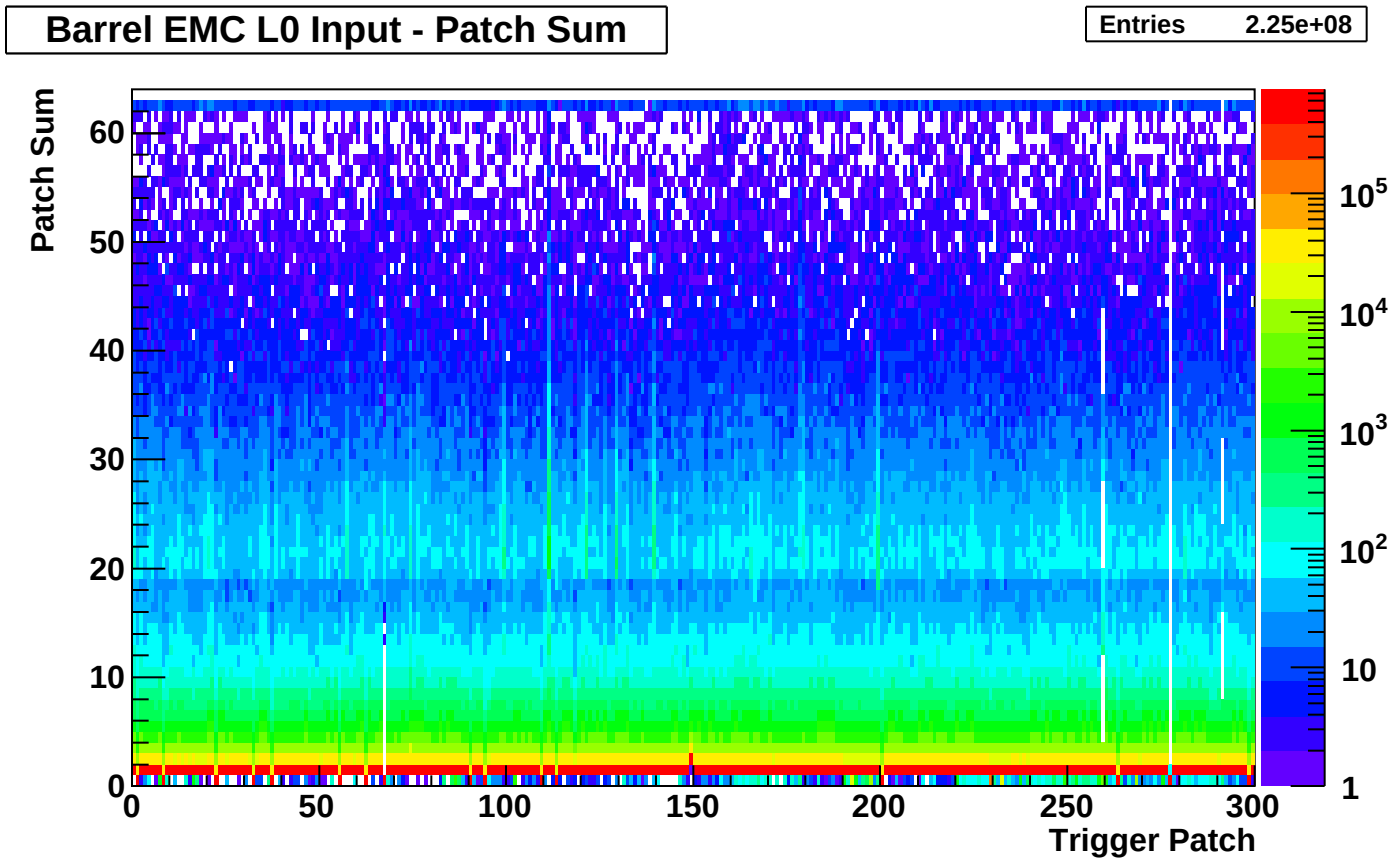

TCU bits
Entries 1.2e+07
TCU bits
750000 750000 750000 750000 750000 750000 750000 750000 750000 750000 750000 750000 750000 750000 750000 750000
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

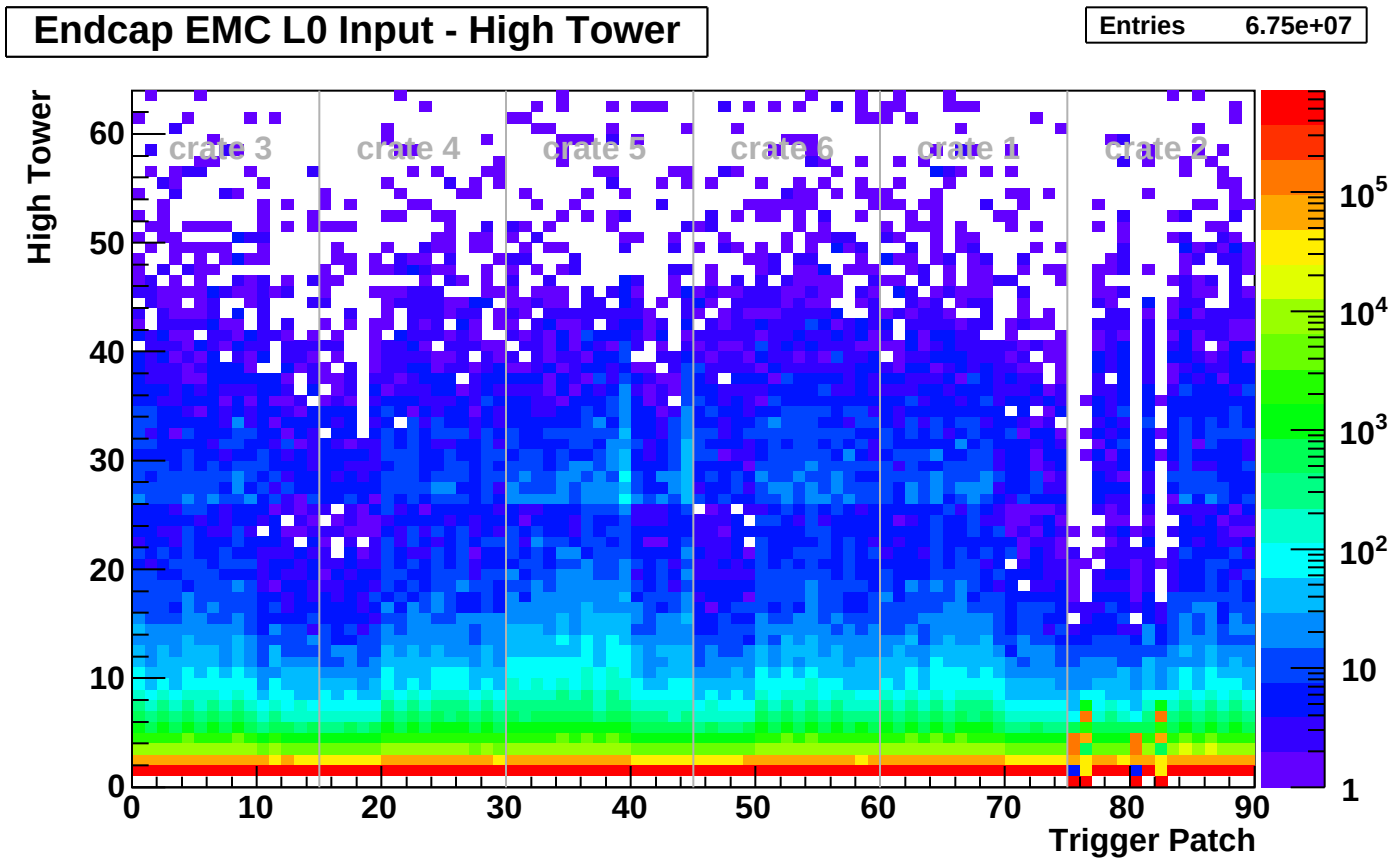

TCU bits
Entries 923318
TCU bits - Simulated
89435 187813 421671 9441 23900 1 187458 3599
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

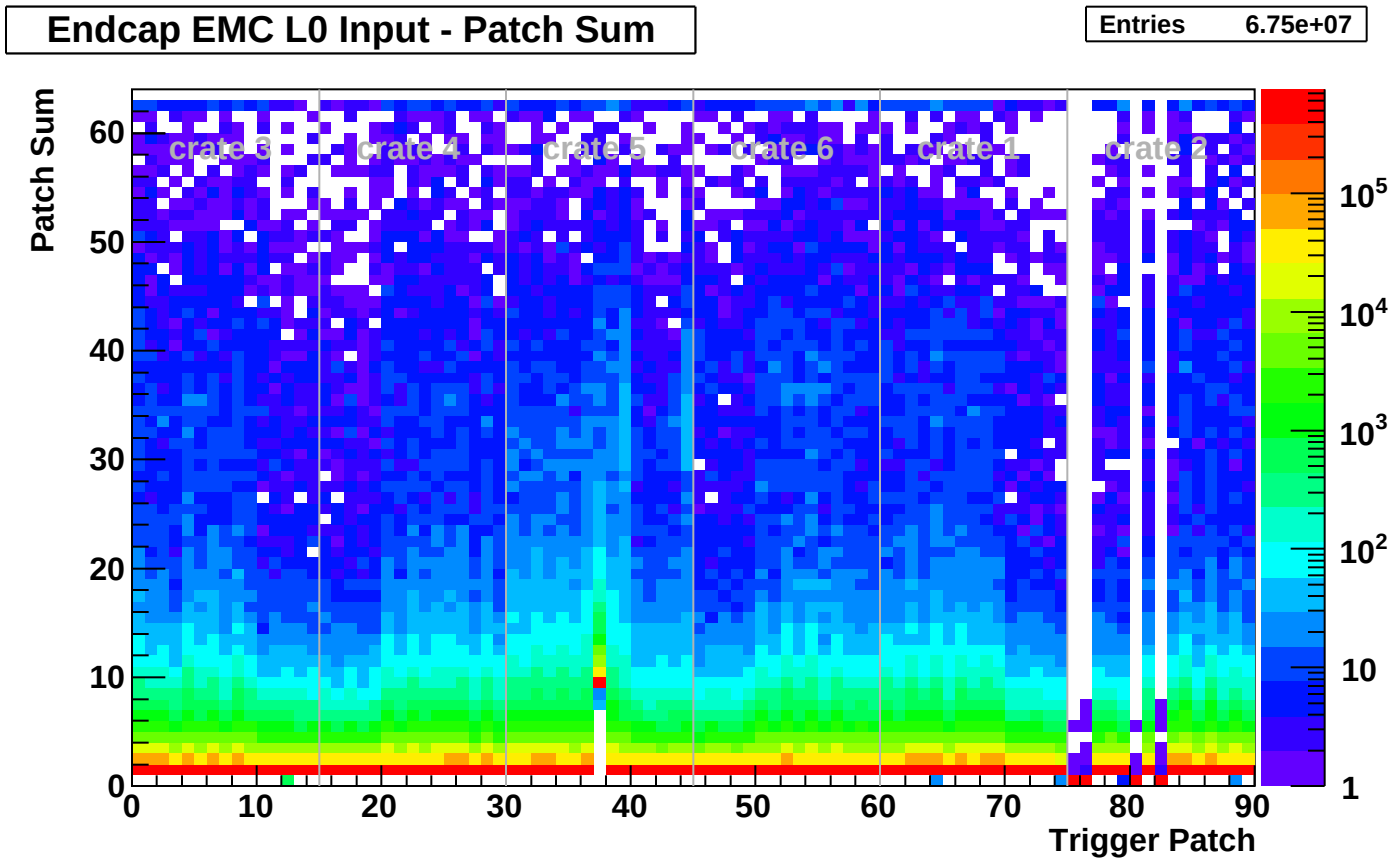

BunchId7Bit (BHT3)
Entries 13947

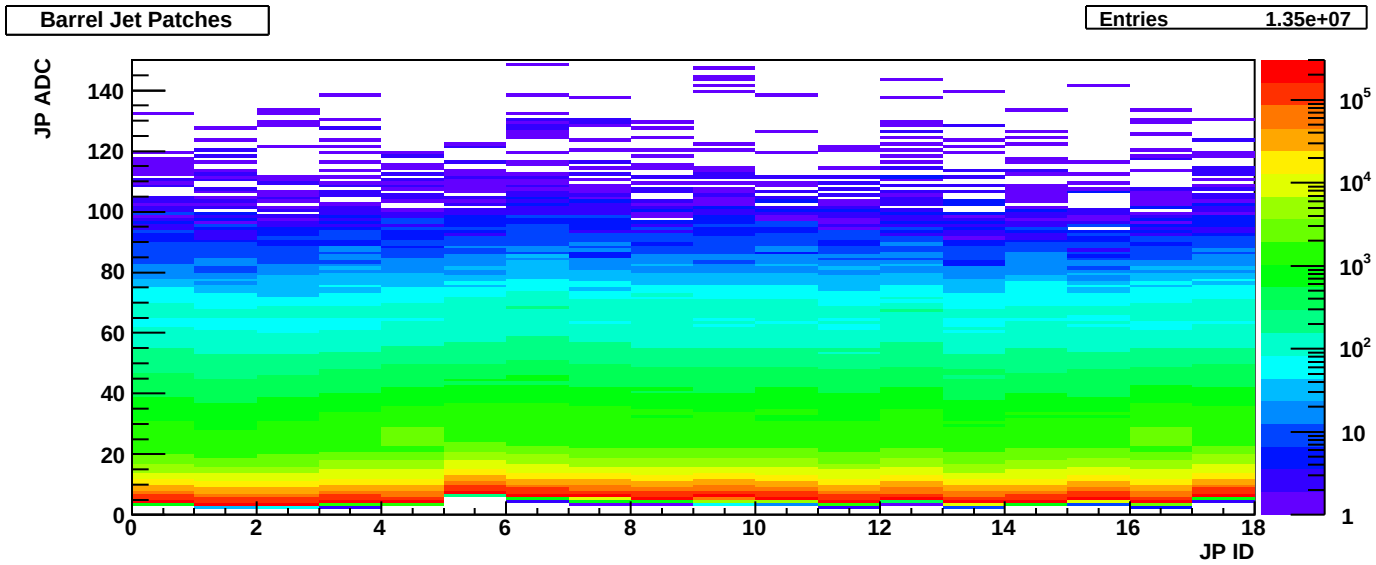

BunchId7Bit (all events)
Entries 750000

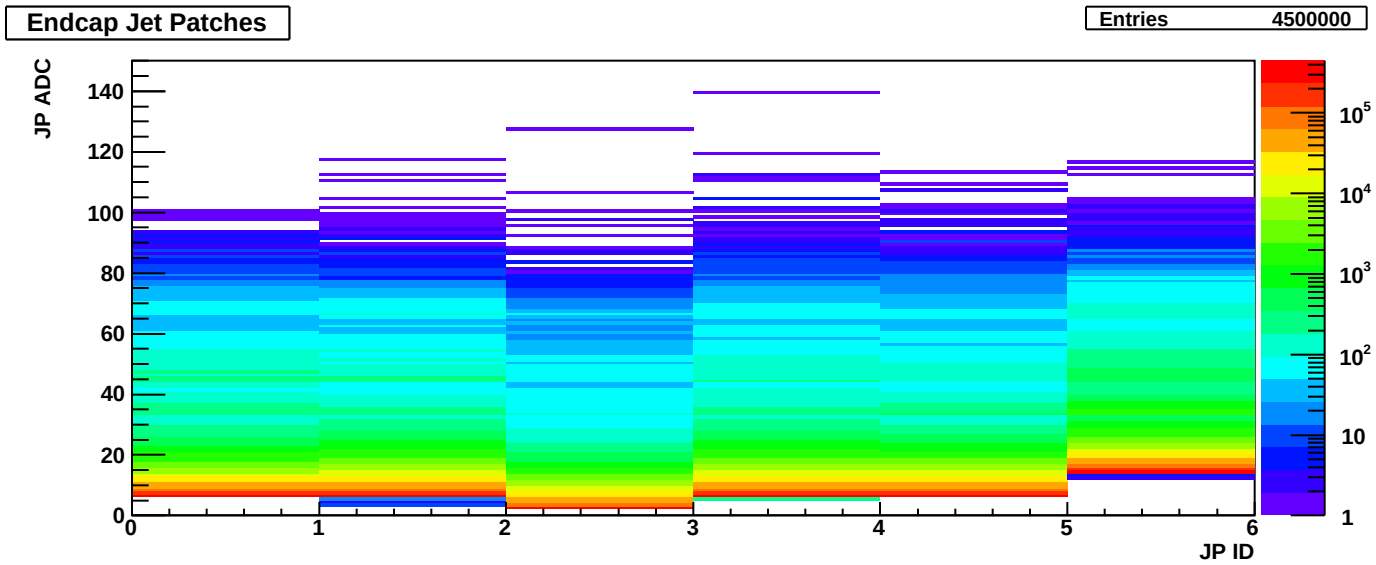

Barrel EMC L0 Input - High Tower
Entries 2.25e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

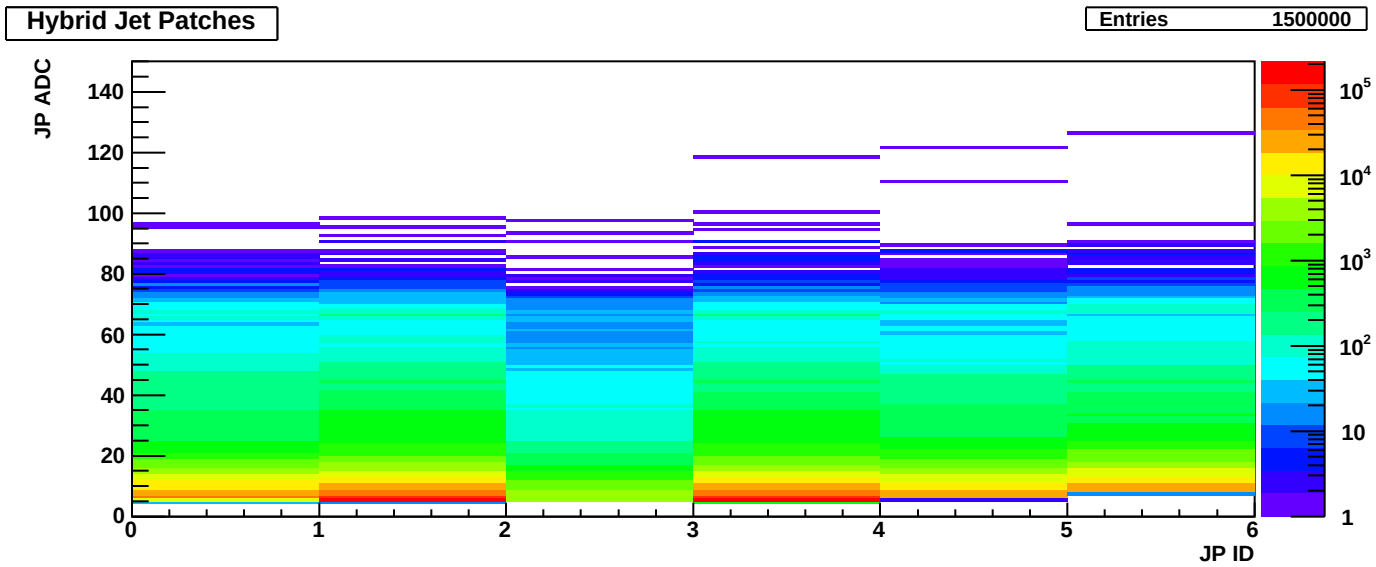

Barrel EMC L0 Input - Patch Sum
Entries 2.25e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

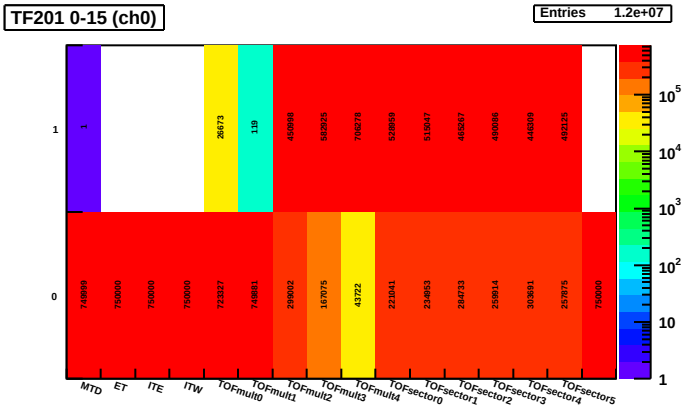

Endcap EMC L0 Input - High Tower
Entries 6.75e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

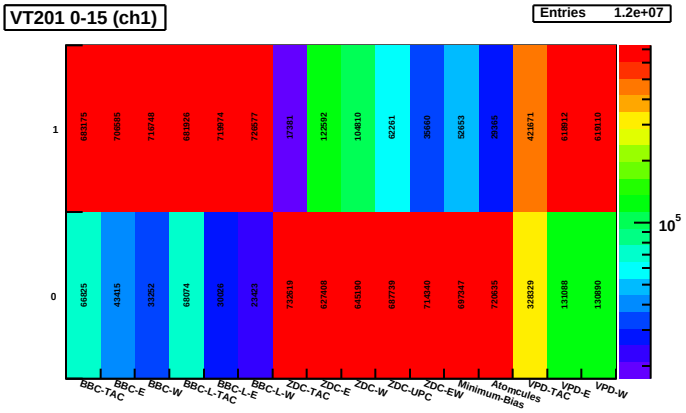

Endcap EMC L0 Input - Patch Sum
Entries 6.75e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

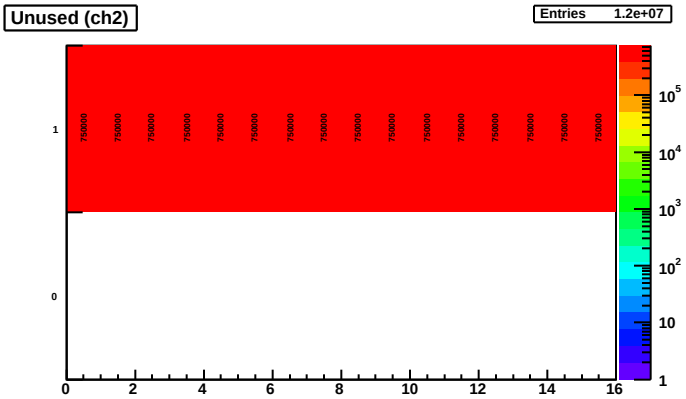

Barrel Jet Patches
Entries 1.35e+07
JP ADC
JP ID

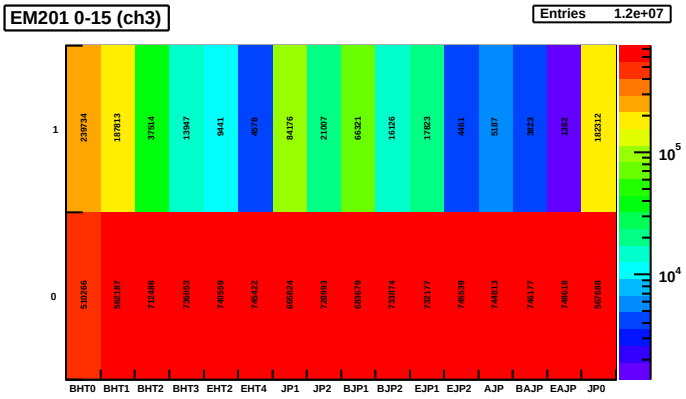

Endcap Jet Patches
Entries 4500000
JP ADC
JP ID

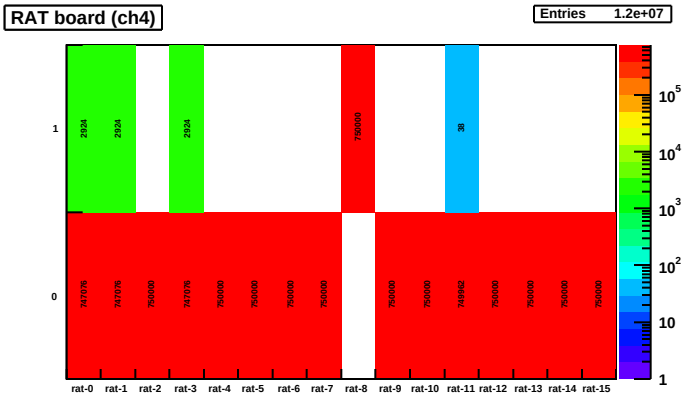

Hybrid Jet Patches
Entries 1500000
JP ADC
JP ID

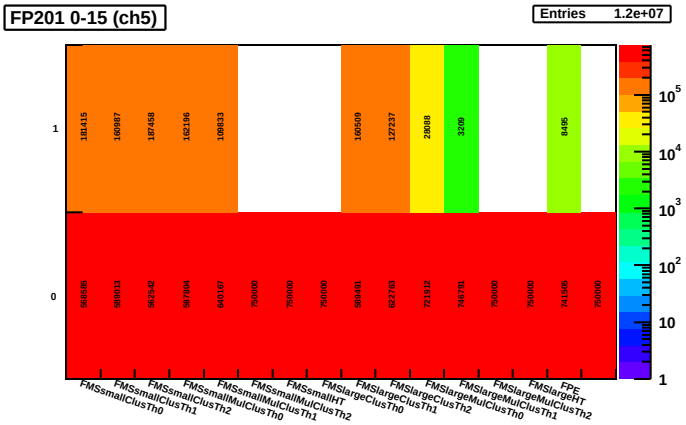

TF201 0-15 (ch0)
Entries 1.2e+07
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

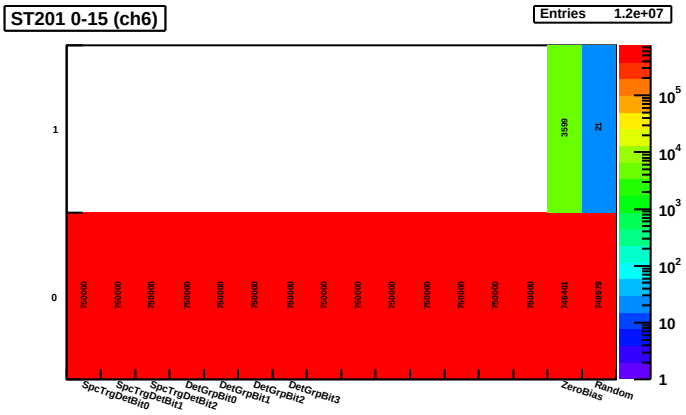

VT201 0-15 (ch1)
Entries 1.2e+07
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

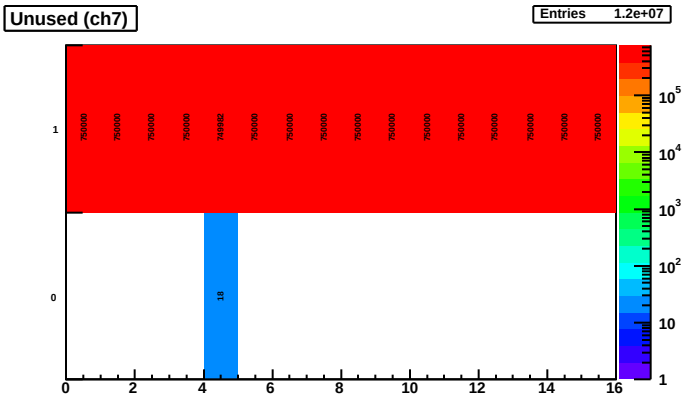

Unused (ch2)
Entries 1.2e+07

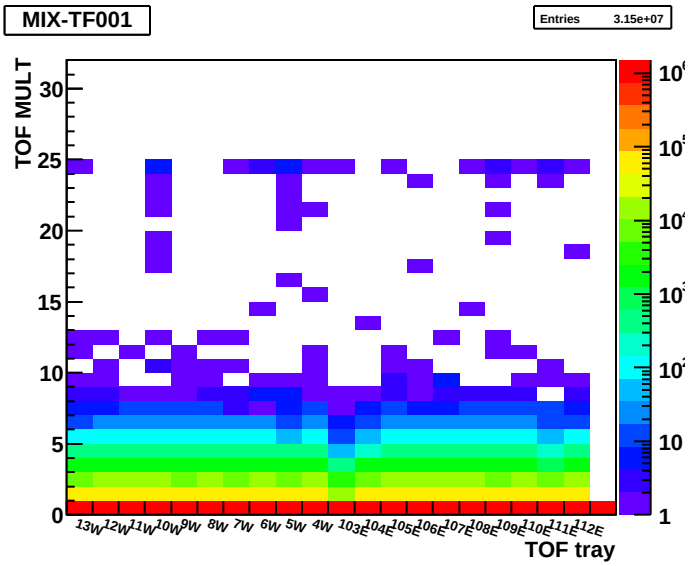

EM201 0-15 (ch3)
Entries 1.2e+07
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

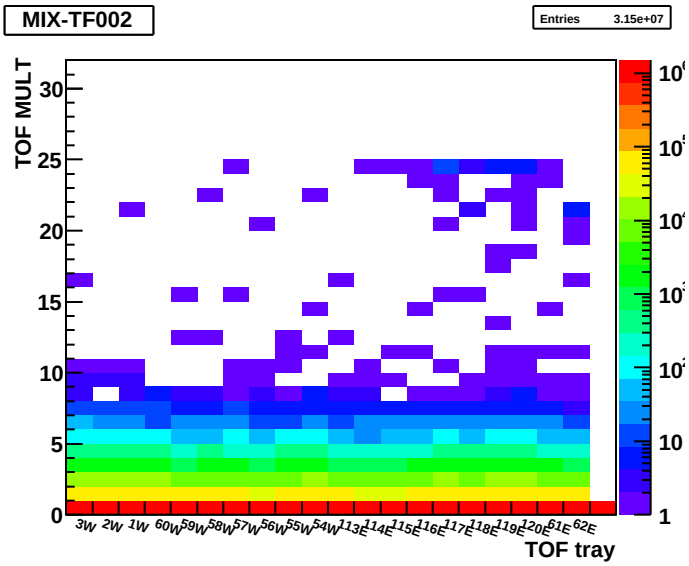

RAT board (ch4)
Entries 1.2e+07
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

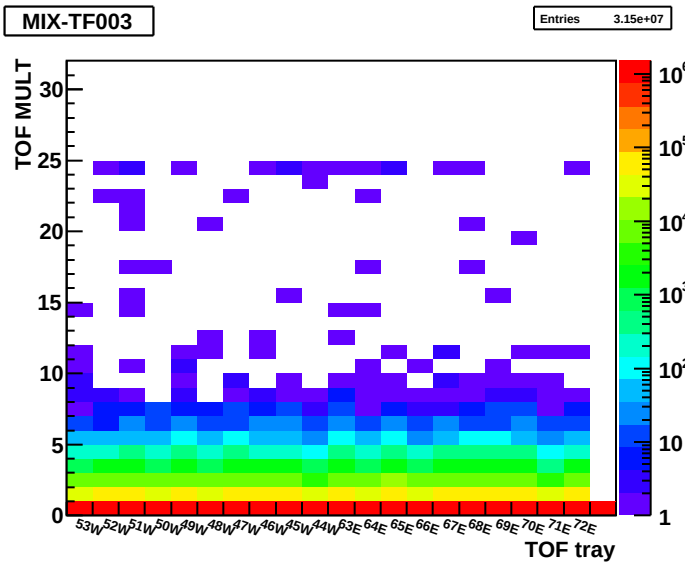

FP201 0-15 (ch5)
Entries 1.2e+07
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

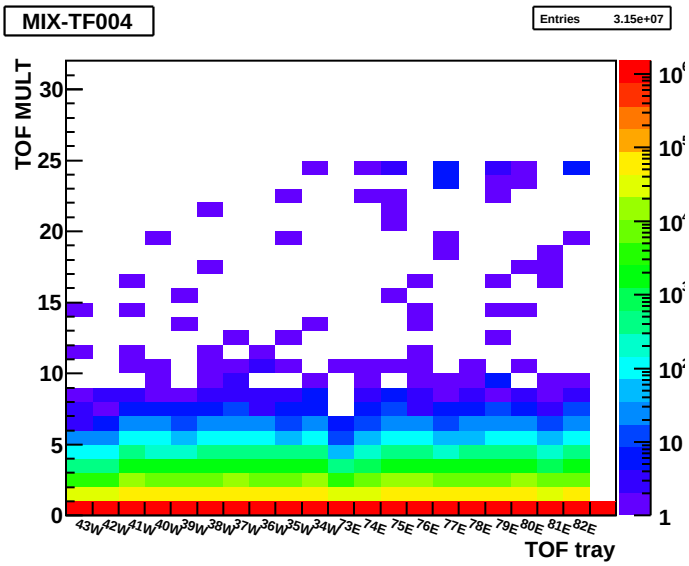

ST201 0-15 (ch6)
Entries 1.2e+07
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random

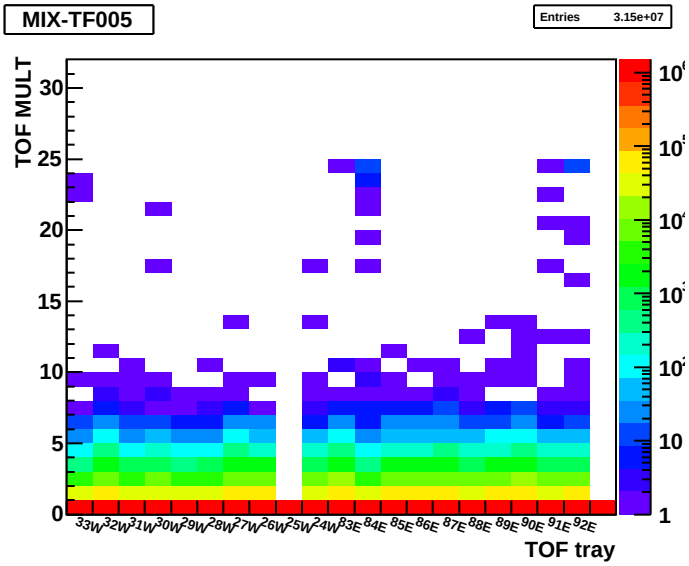

Unused (ch7)
Entries 1.2e+07

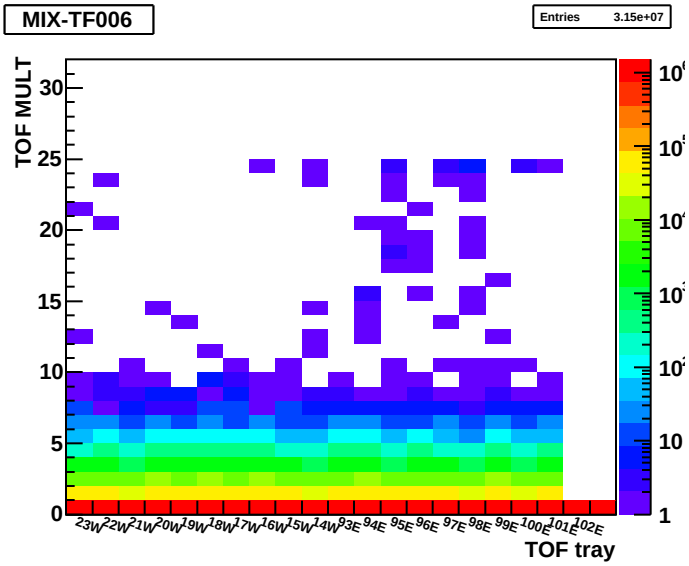

MIX-TF001
Entries 3.15e+07
TOF MULT
TOF tray

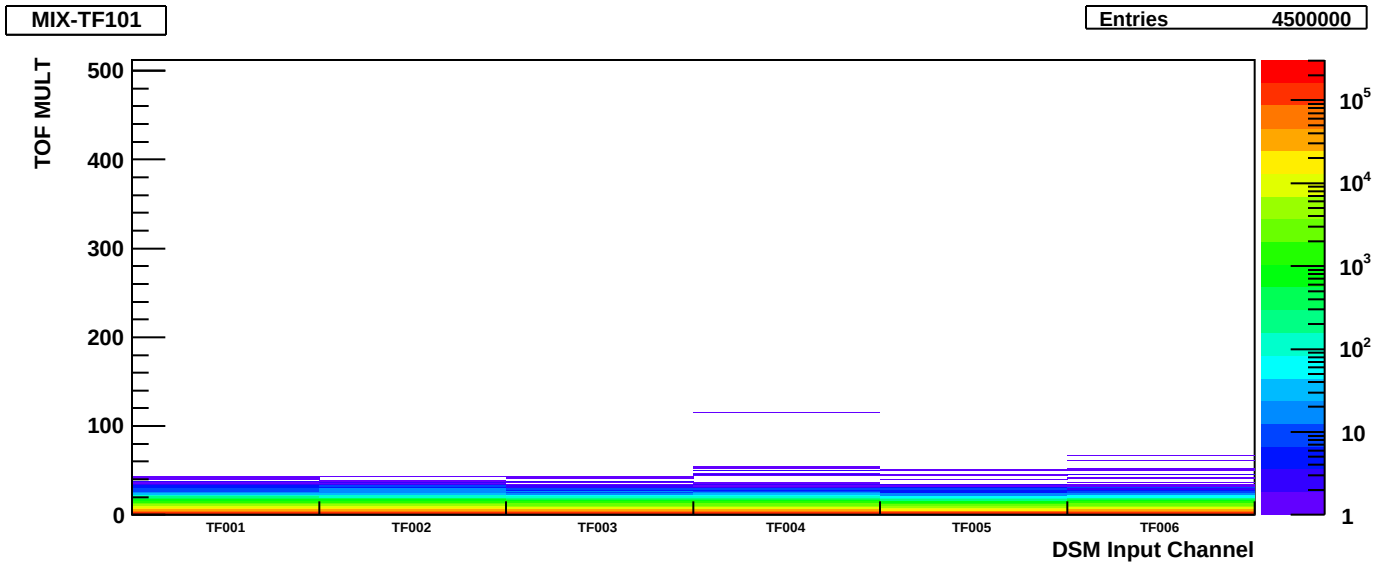

MIX-TF002
Entries 3.15e+07
TOF MULT
TOF tray

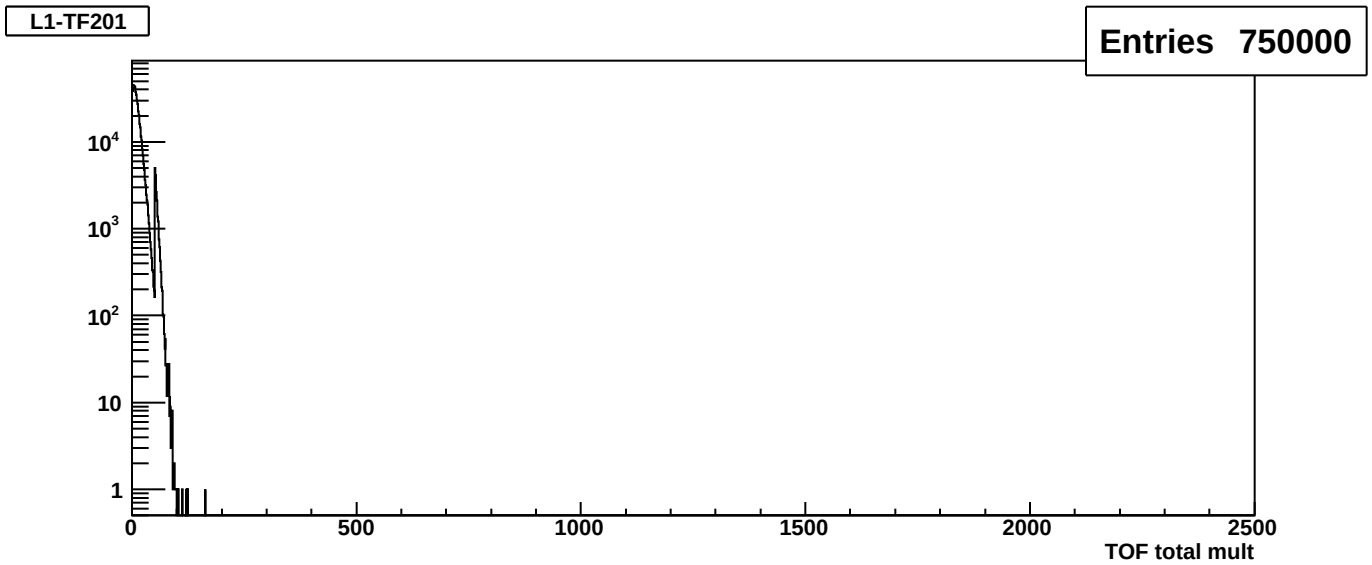

MIX-TF003
Entries 3.15e+07
TOF MULT
TOF tray

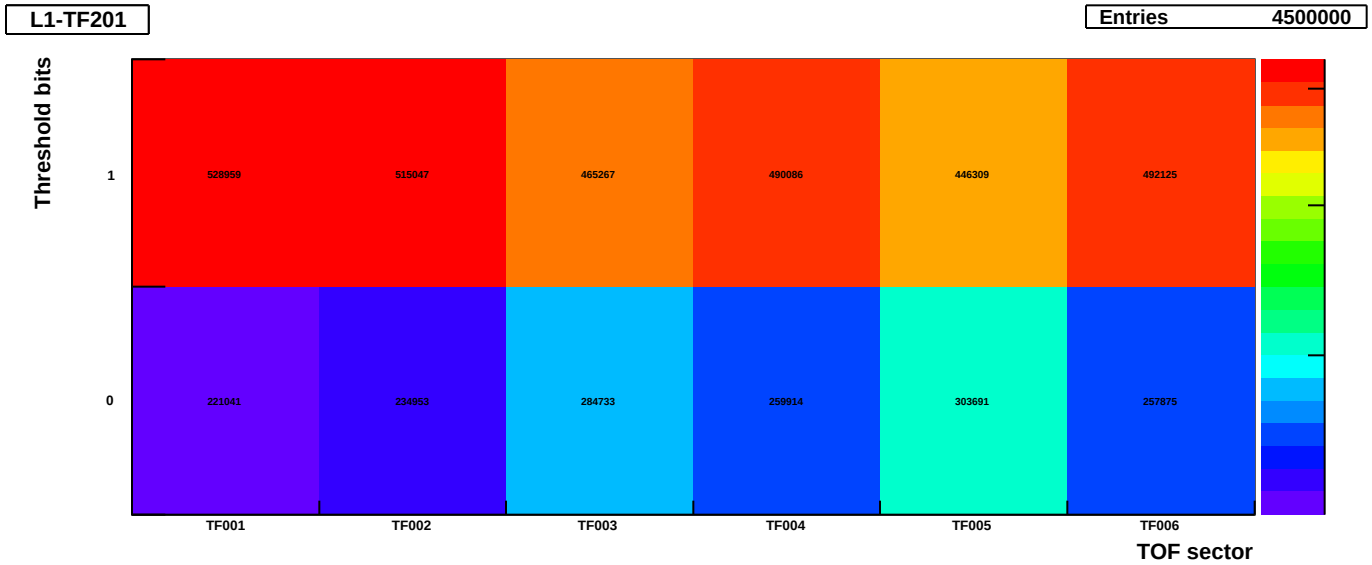

MIX-TF004
Entries 3.15e+07
TOF MULT
TOF tray

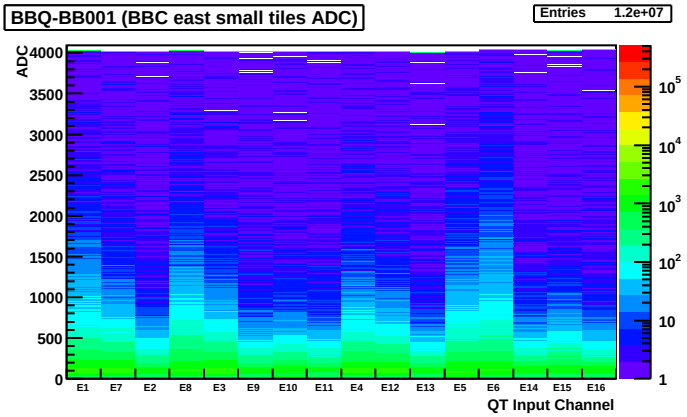

MIX-TF005
Entries 3.15e+07
TOF MULT
TOF tray

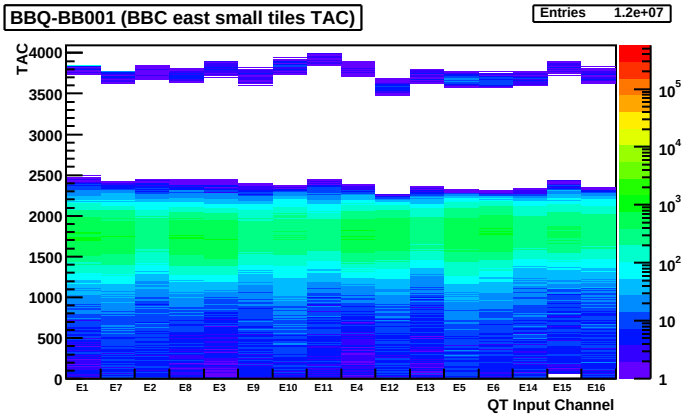

MIX-TF006
Entries 3.15e+07
TOF MULT
TOF tray

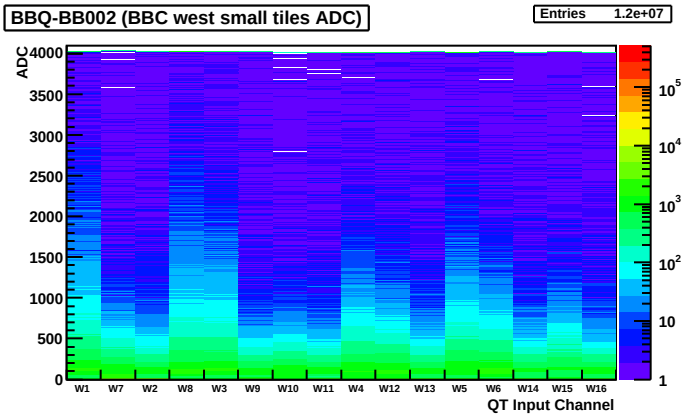

MIX-TF101
Entries 4500000
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

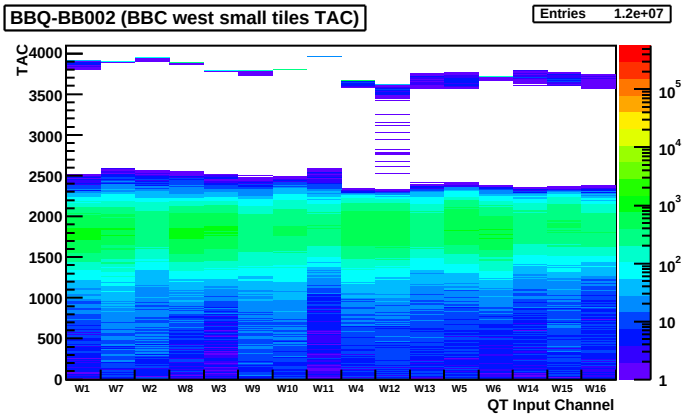

L1-TF201
Entries 750000
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

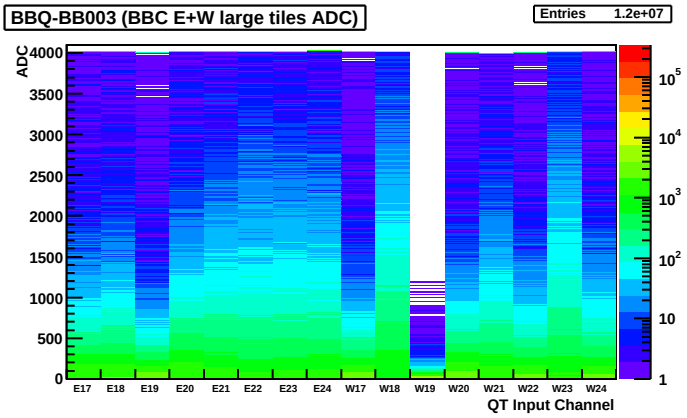

L1-TF201
Entries 4500000
Threshold bits
1
0
528959
515047
465267
490086
446309
492125
221041
234953
284733
259914
303691
257875
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

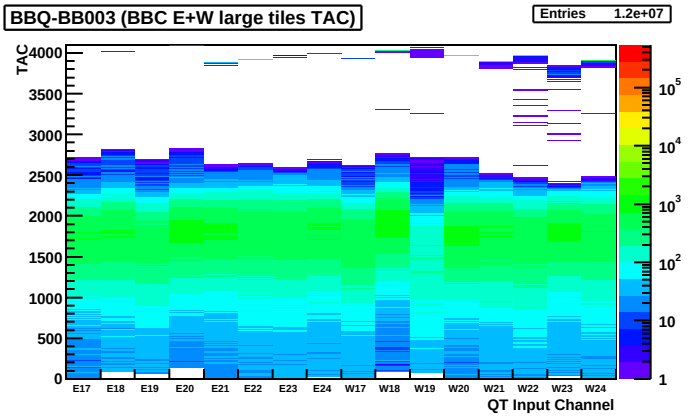

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.2e+07
ADC
QT Input Channel

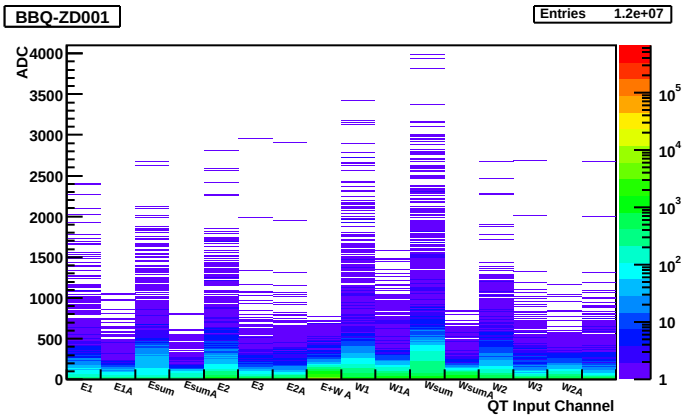

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.2e+07
TAC
QT Input Channel

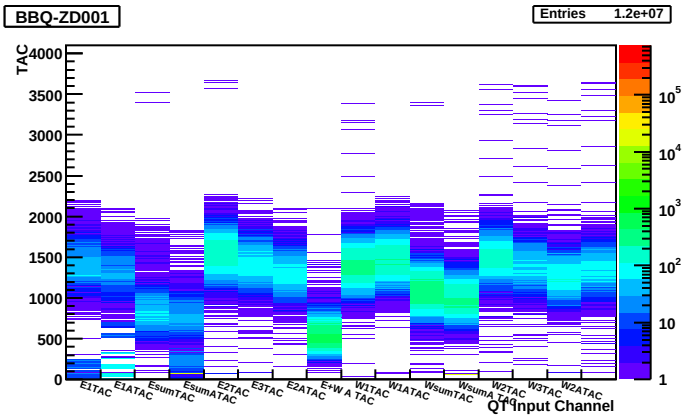

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.2e+07
ADC
QT Input Channel

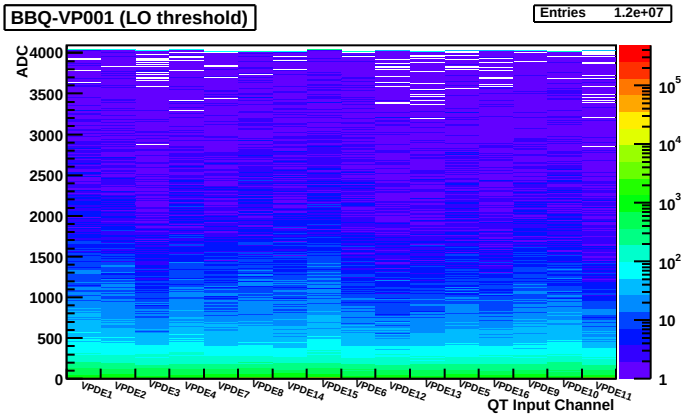

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.2e+07
TAC
QT Input Channel

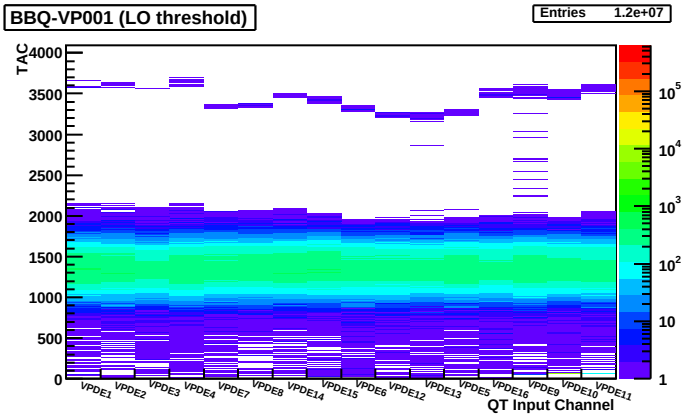

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.2e+07
ADC
QT Input Channel

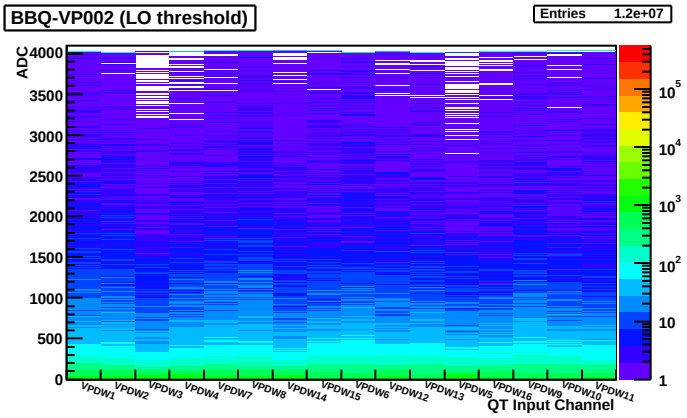

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.2e+07
TAC
QT Input Channel

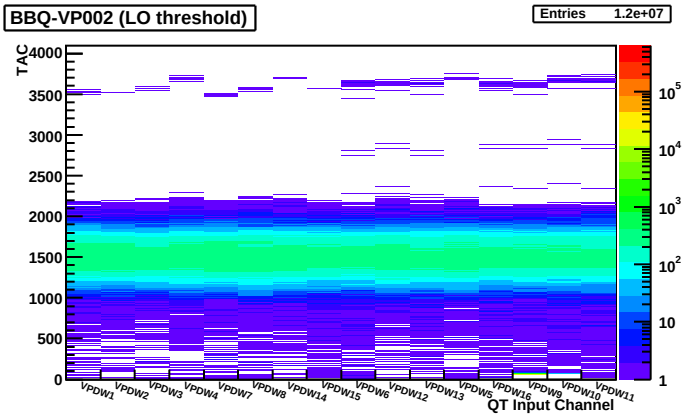

BBQ-ZD001
Entries 1.2e+07
ADC
QT Input Channel

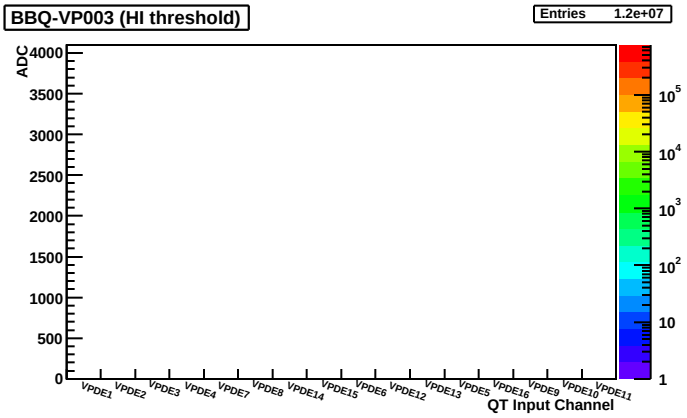

BBQ-ZD001
Entries 1.2e+07
TAC
QT Input Channel

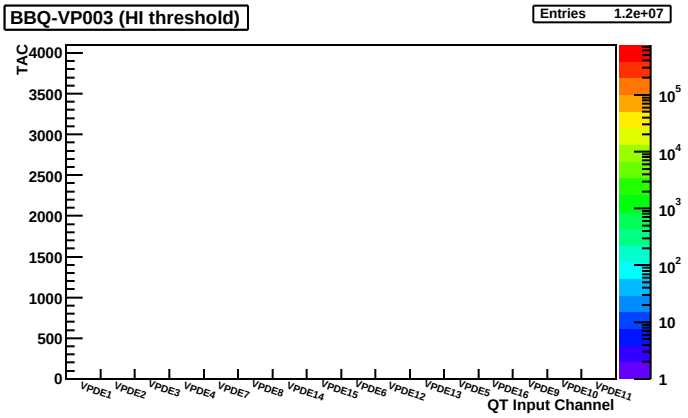

BBQ-VP001 (LO threshold)
Entries 1.2e+07
ADC
QT Input Channel

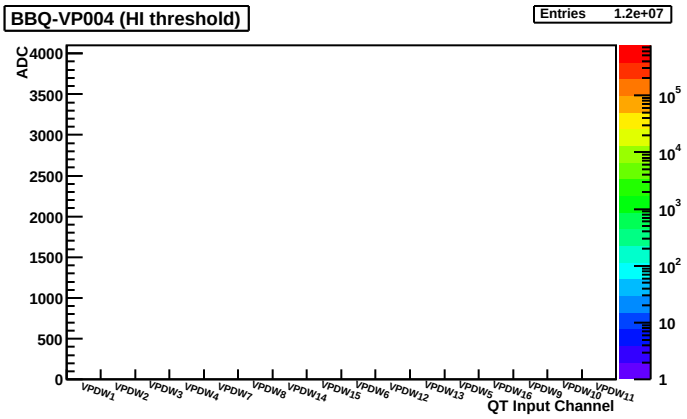

BBQ-VP001 (LO threshold)
Entries 1.2e+07
TAC
QT Input Channel

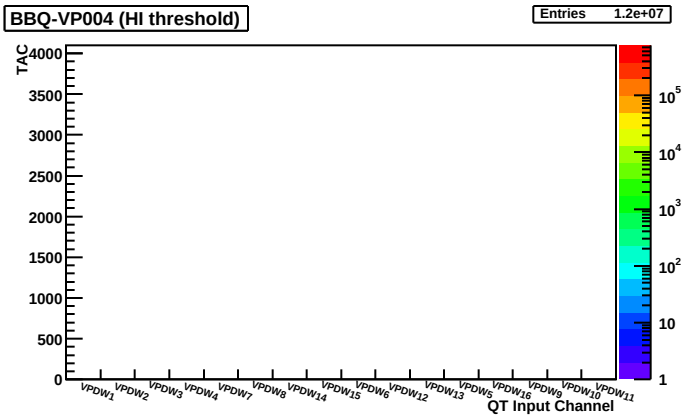

BBQ-VP002 (LO threshold)
Entries 1.2e+07
ADC
QT Input Channel

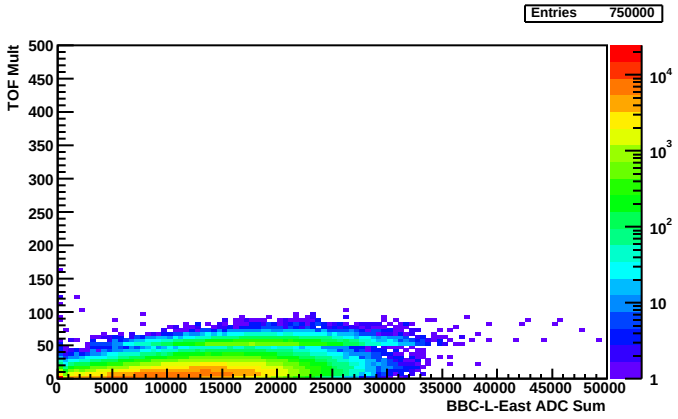

BBQ-VP002 (LO threshold)
Entries 1.2e+07
TAC
QT Input Channel

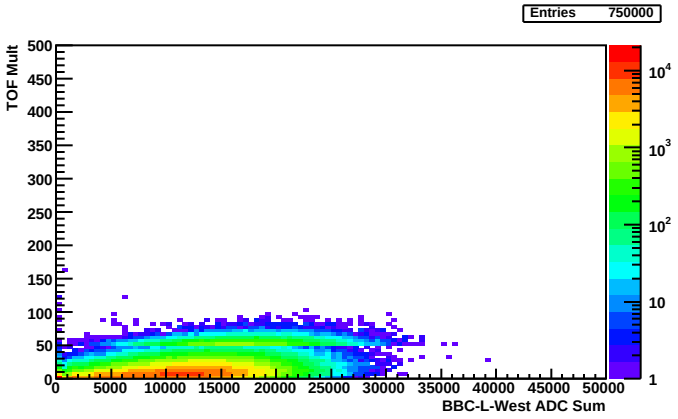

BBQ-VP003 (HI threshold)
Entries 1.2e+07
ADC
QT Input Channel

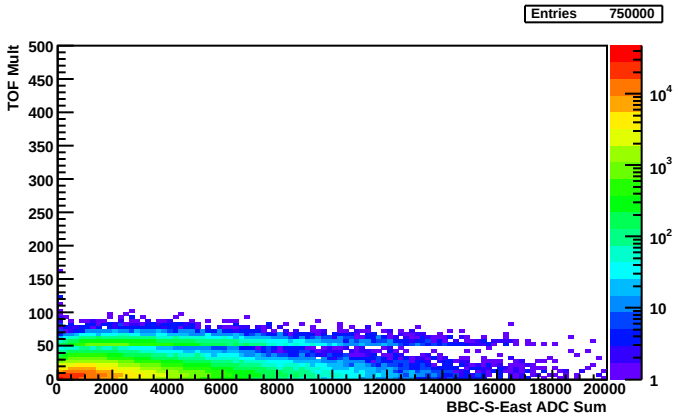

BBQ-VP003 (HI threshold)
Entries 1.2e+07
TAC
QT Input Channel

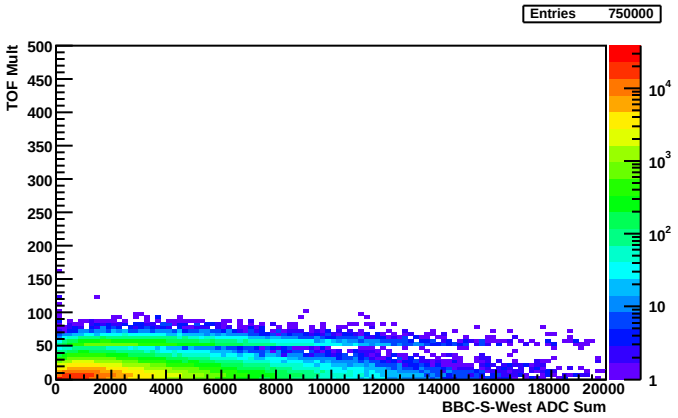

BBQ-VP004 (HI threshold)
Entries 1.2e+07
ADC
QT Input Channel

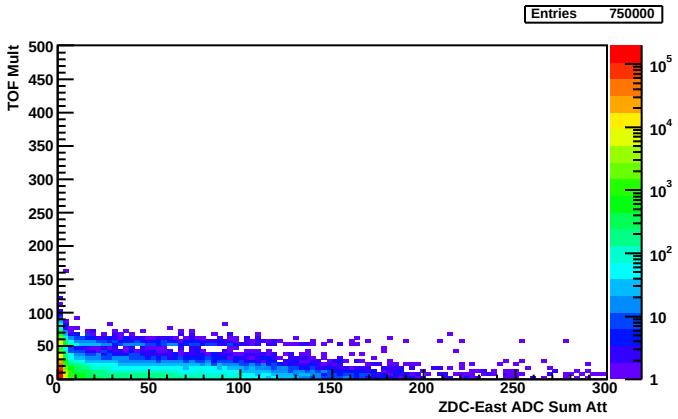

BBQ-VP004 (HI threshold)
Entries 1.2e+07
TAC
QT Input Channel

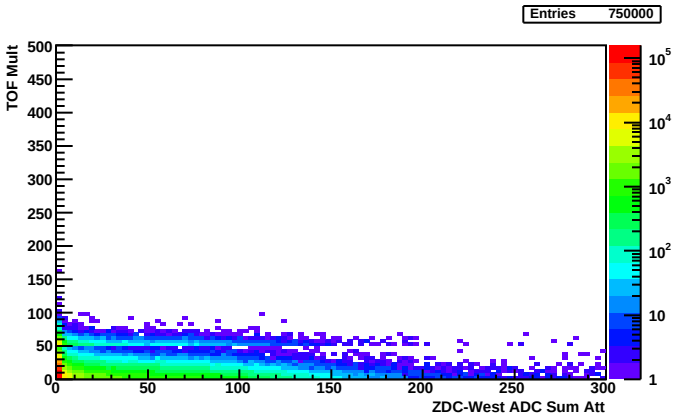

Entries 750000
TOF Mult
BBC-L-East ADC Sum

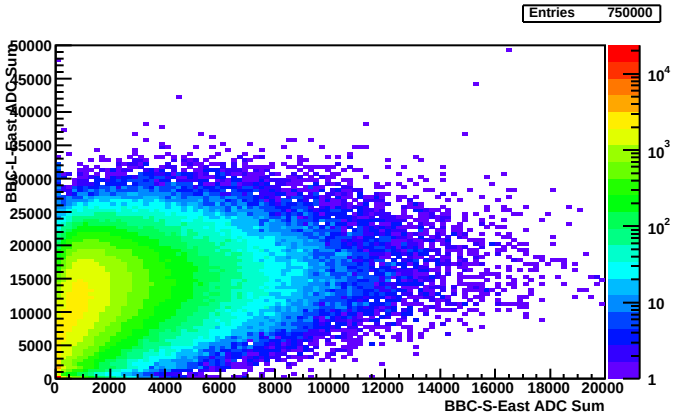

Entries 750000
TOF Mult
BBC-L-West ADC Sum

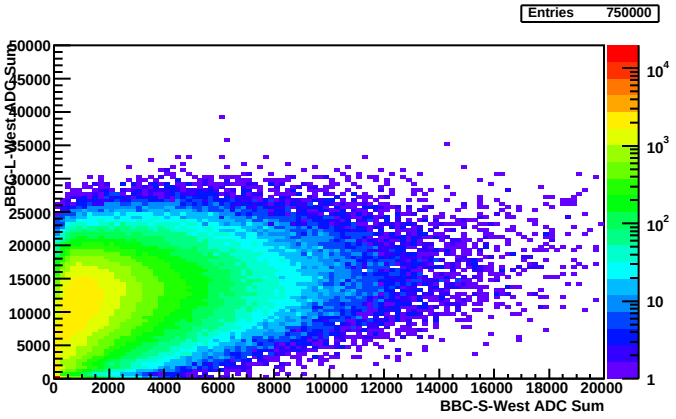

Entries 750000
TOF Mult
BBC-S-East ADC Sum

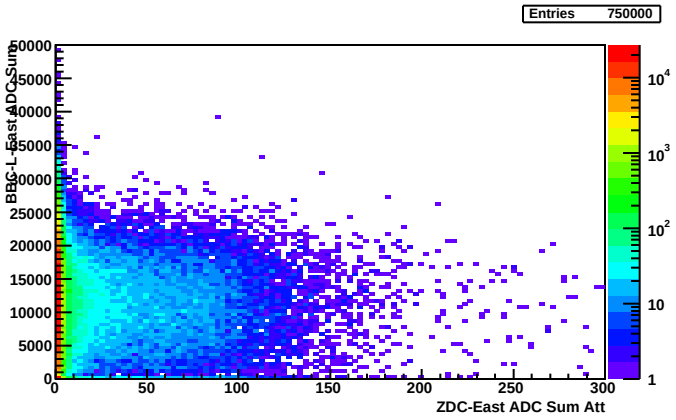

Entries 750000
TOF Mult
BBC-S-West ADC Sum

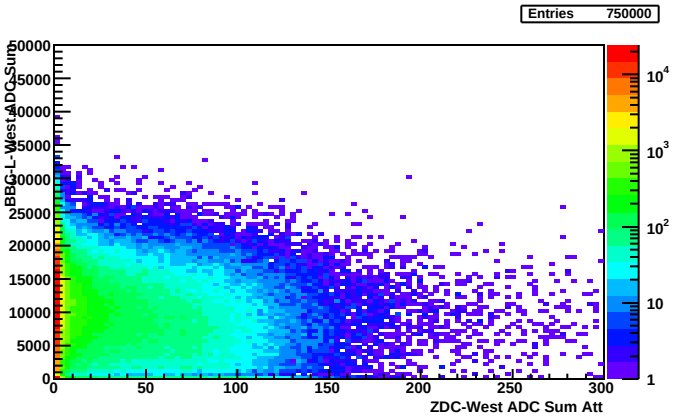

Entries 750000
TOF Mult
ZDC-East ADC Sum Att

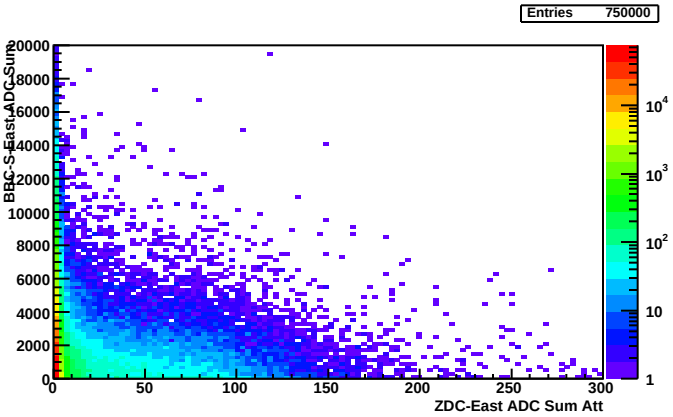

Entries 750000
TOF Mult
ZDC-West ADC Sum Att

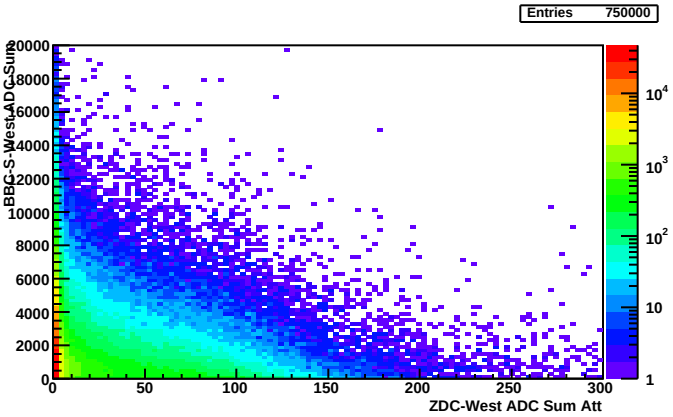

Entries 750000
BBC-L-East ADC Sum
BBC-S-East ADC Sum

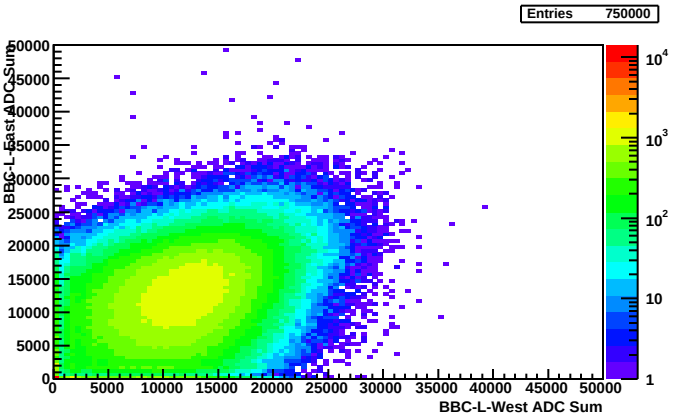

Entries 750000
BBC-L-West ADC Sum
BBC-S-West ADC Sum

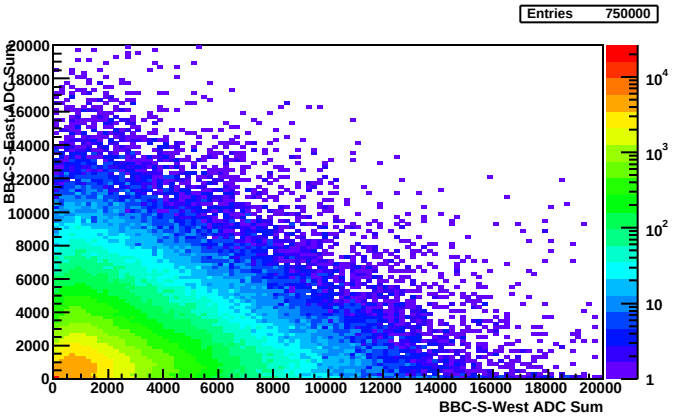

Entries 750000
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

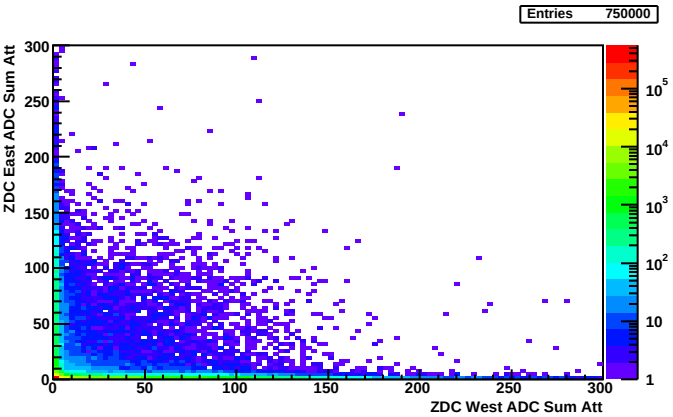

Entries 750000
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

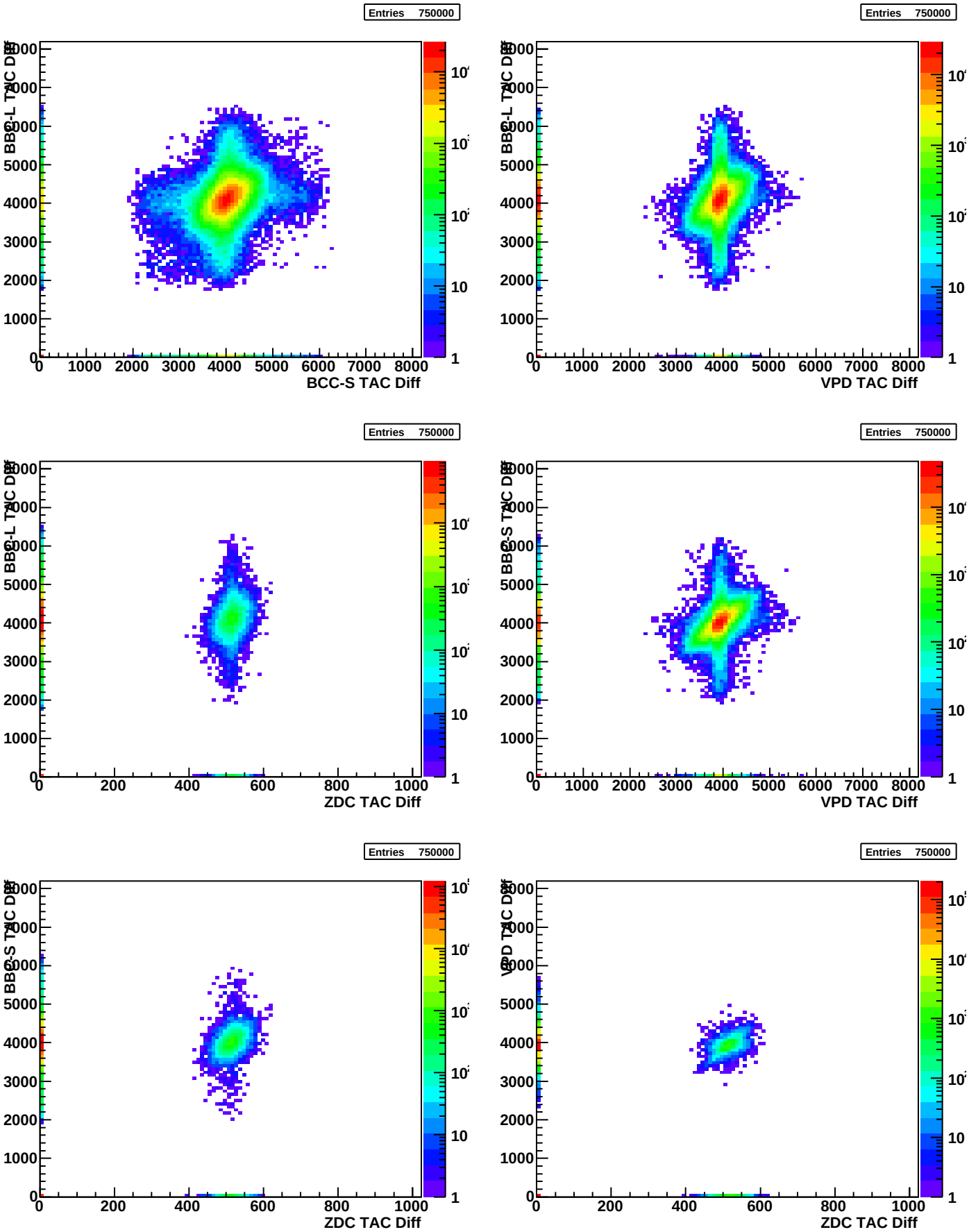

Entries 750000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

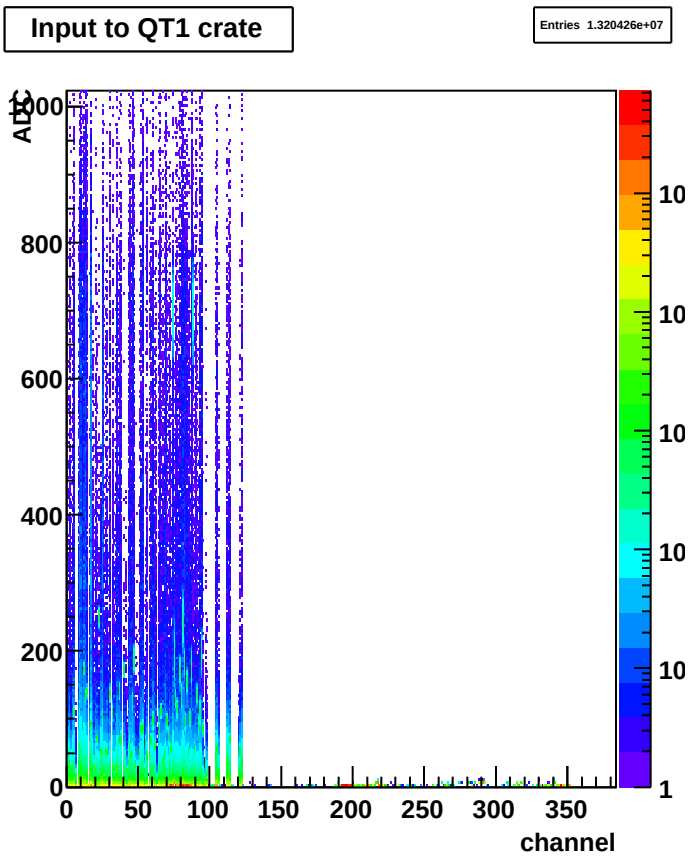

Entries 750000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

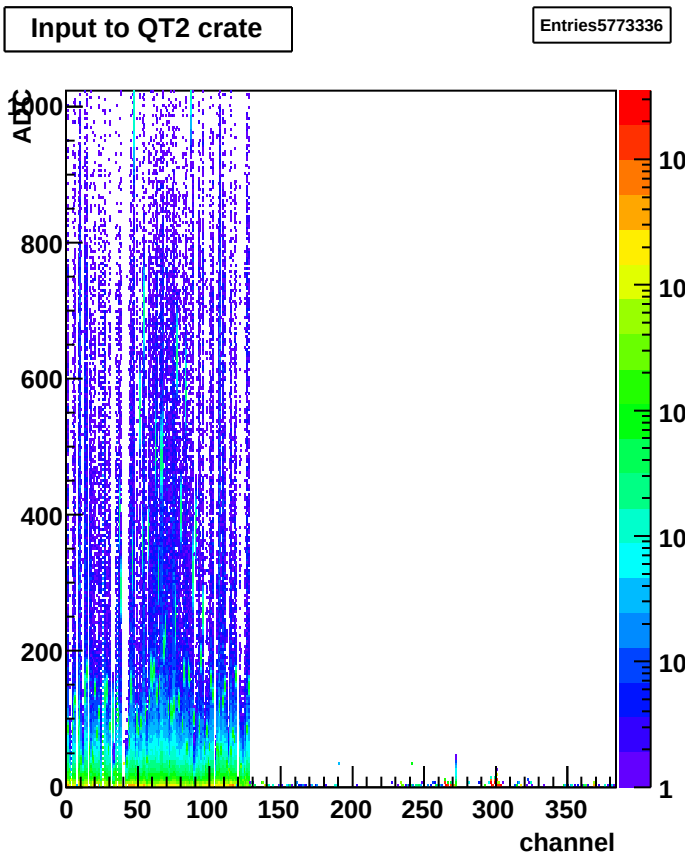

Entries 750000
BBC-L-East ADC Sum
BBC-L-West ADC Sum

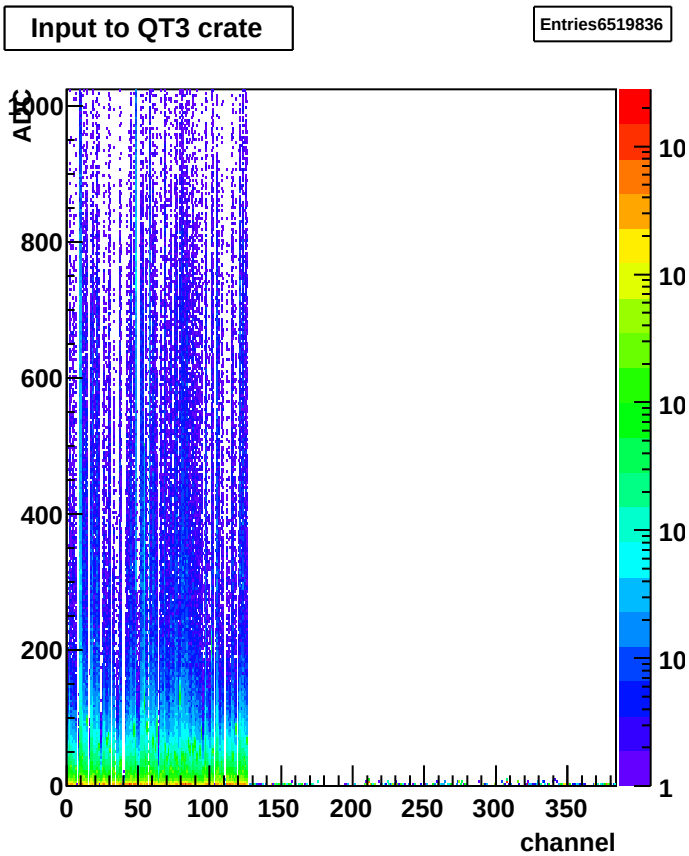

Entries 750000
BBC-S-East ADC Sum
BBC-S-West ADC Sum

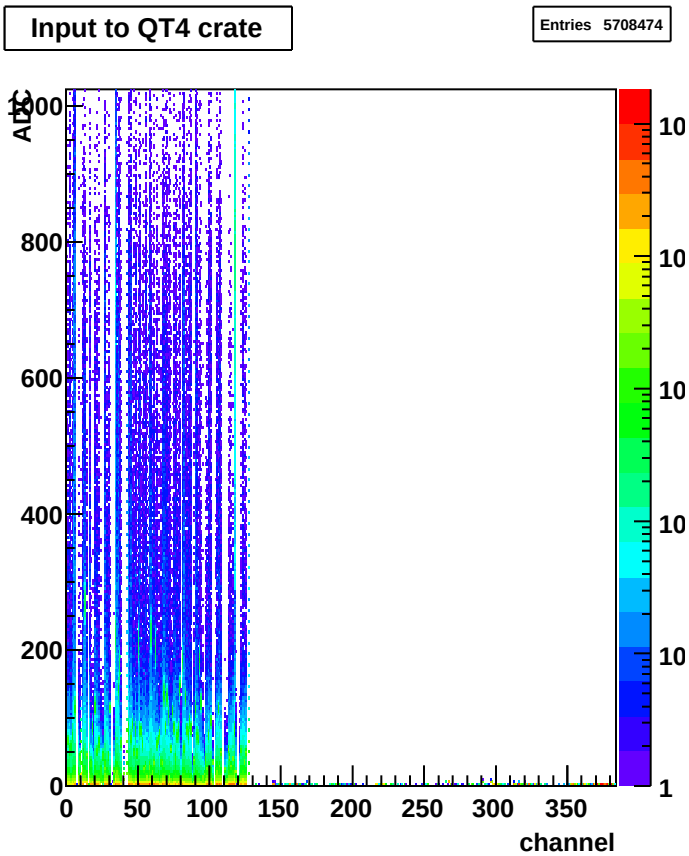

Entries 750000
ZDC East ADC Sum Att
ZDC West ADC Sum Att

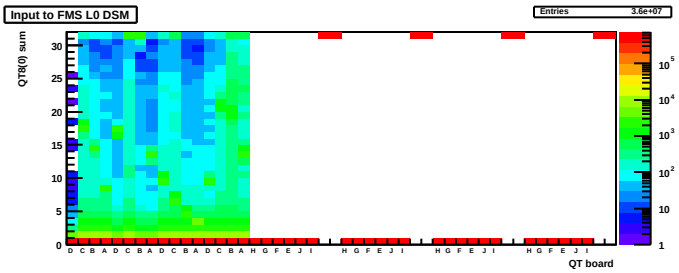

Entries 750000
BBC-L TAC Diff
BCC-S TAC Diff
Entries 750000
BBC-L TAC Diff
VPD TAC Diff
Entries 750000
BBC-L TAC Diff
ZDC TAC Diff
Entries 750000
BBC-S TAC Diff
VPD TAC Diff
Entries 750000
BBC-S TAC Diff
ZDC TAC Diff
Entries 750000
VPD TAC Diff
ZDC TAC Diff

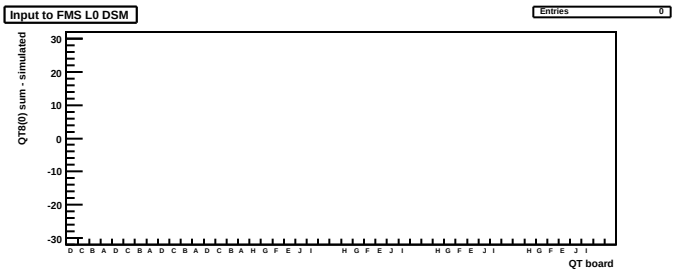

Input to QT1 crate
Entries 1.320426e+07
ADC
channel

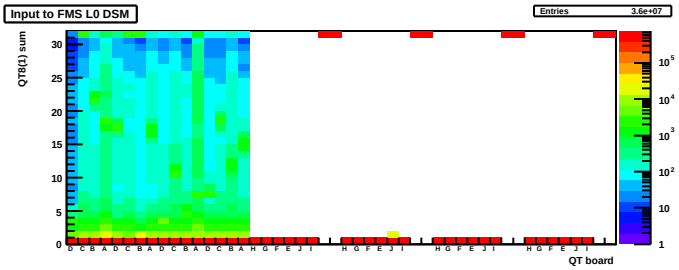

Input to QT2 crate
Entries5773336
ADC
channel

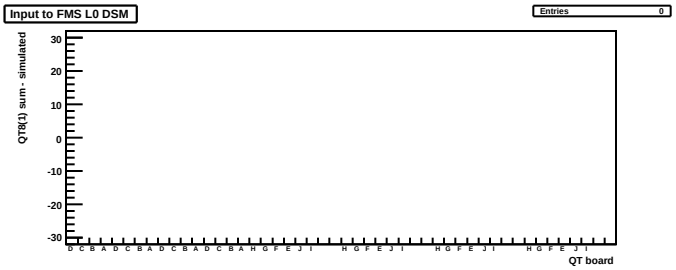

Input to QT3 crate
Entries6519836
ADC
channel

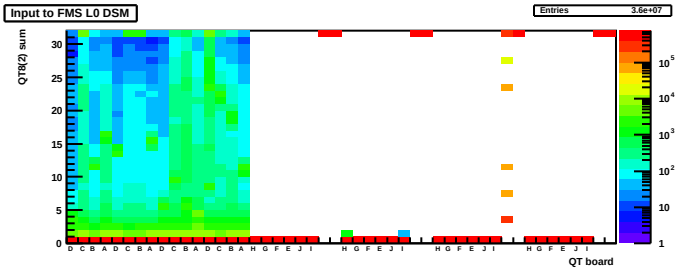

Input to QT4 crate
Entries 5708474
ADC
channel

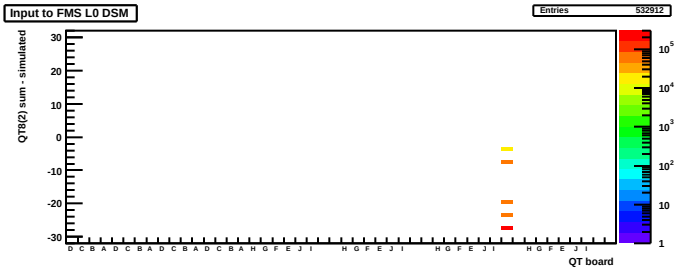

Input to FMS L0 DSM
Entries 3.6e+07
QT8(0) sum
QT board

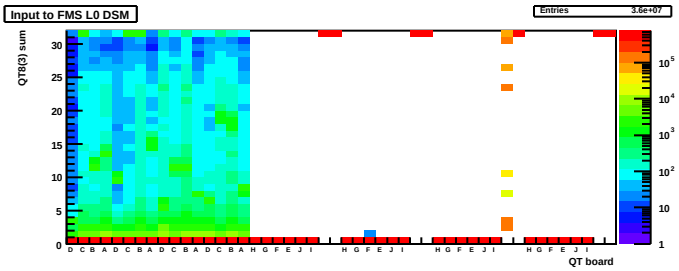

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

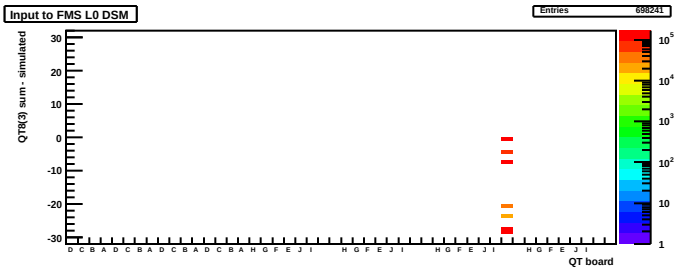

Input to FMS L0 DSM
Entries 3.6e+07
QT8(1) sum
QT board

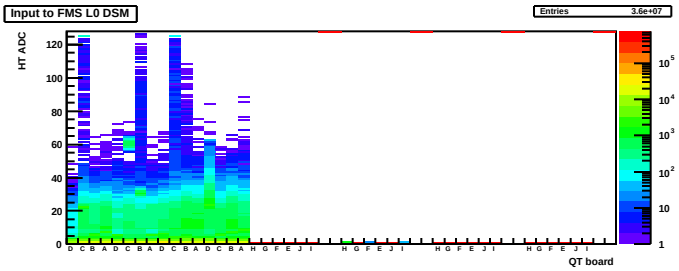

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

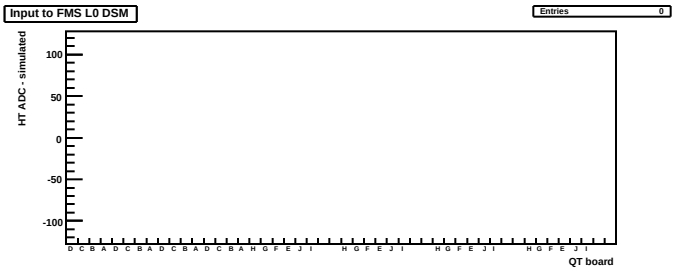

Input to FMS L0 DSM
Entries 3.6e+07
QT8(2) sum
QT board

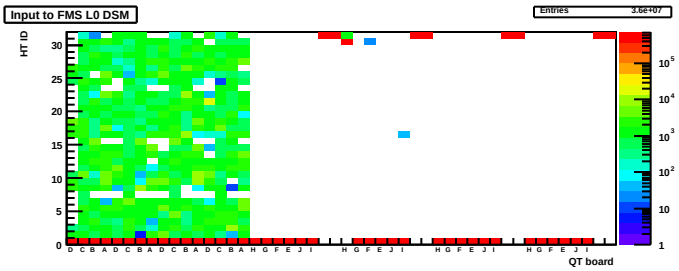

Input to FMS L0 DSM
Entries 532912
QT8(2) sum - simulated
QT board

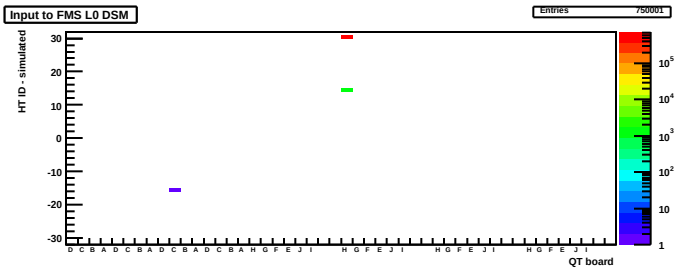

Input to FMS L0 DSM
Entries 3.6e+07
QT8(3) sum
QT board

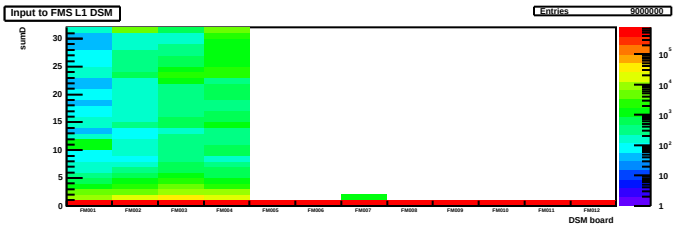

Input to FMS L0 DSM
Entries 698241
QT8(3) sum - simulated
QT board

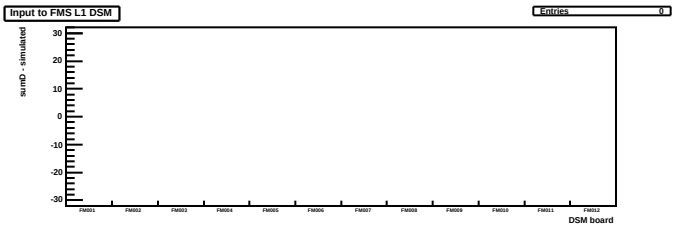

Input to FMS L0 DSM
Entries 3.6e+07
HT ADC
QT board

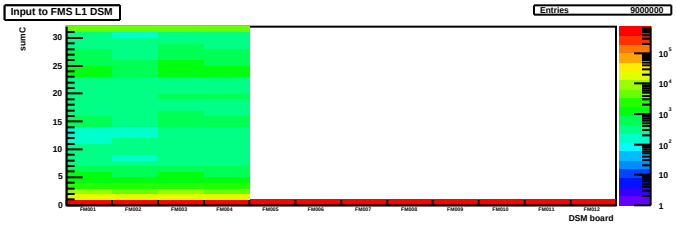

Input to FMS L0 DSM
Entries 0
HT ADC - simulated
QT board

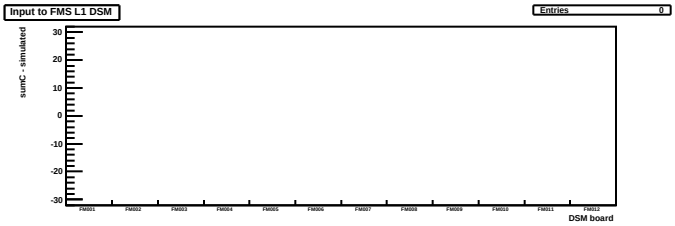

Input to FMS L0 DSM
Entries 3.6e+07
HT ID
QT board

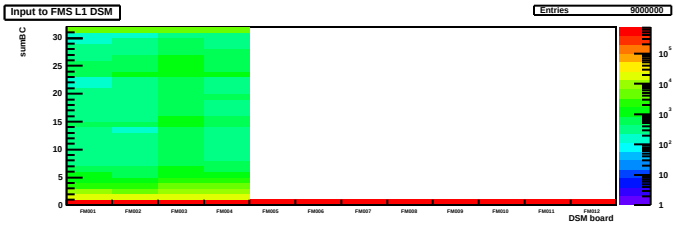

Input to FMS L0 DSM
Entries 750001
HT ID - simulated
QT board

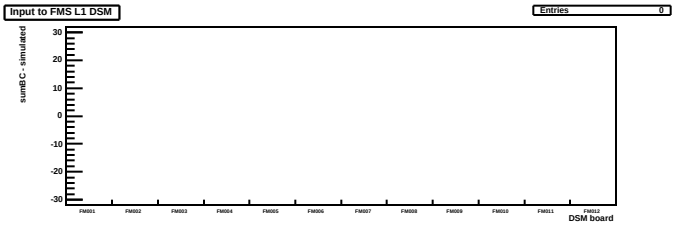

Input to FMS L1 DSM
Entries 9000000
sumD
DSM board

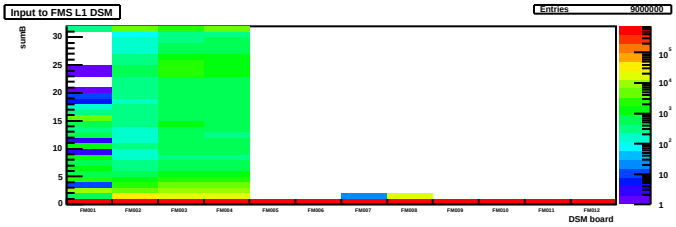

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

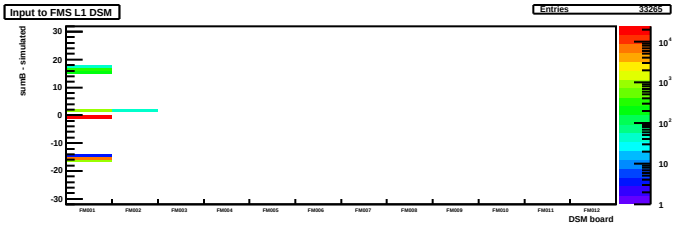

Input to FMS L1 DSM
Entries 9000000
sumC
DSM board

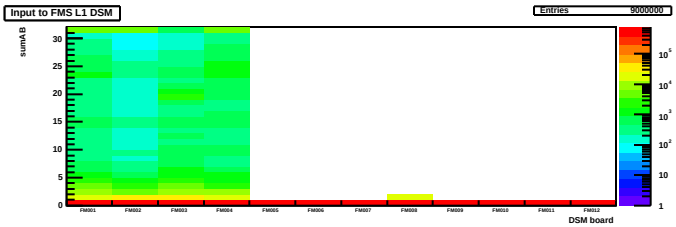

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

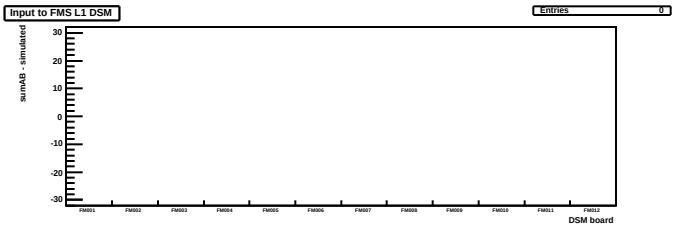

Input to FMS L1 DSM
Entries 9000000
sumBC
DSM board

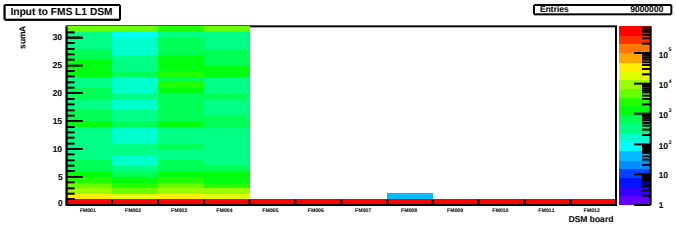

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

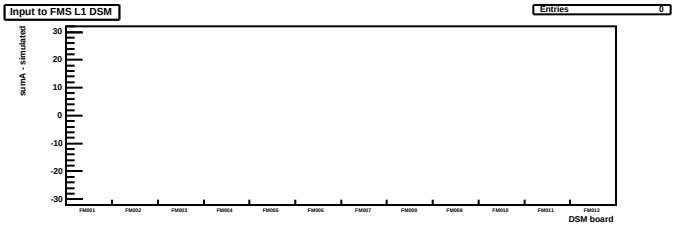

Input to FMS L1 DSM
Entries 9000000
sumB
DSM board

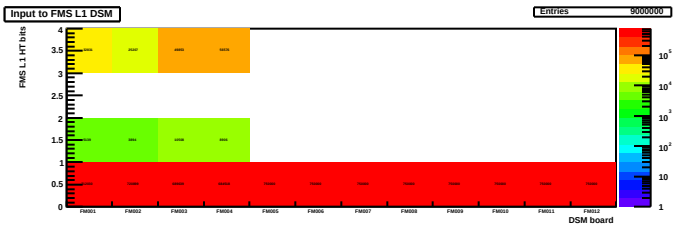

Input to FMS L1 DSM
Entries 33265
sumB - simulated
DSM board

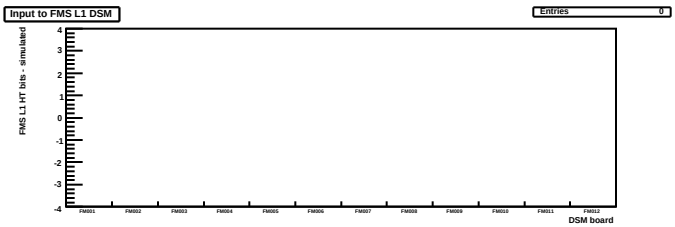

Input to FMS L1 DSM
Entries 9000000
sumAB
DSM board

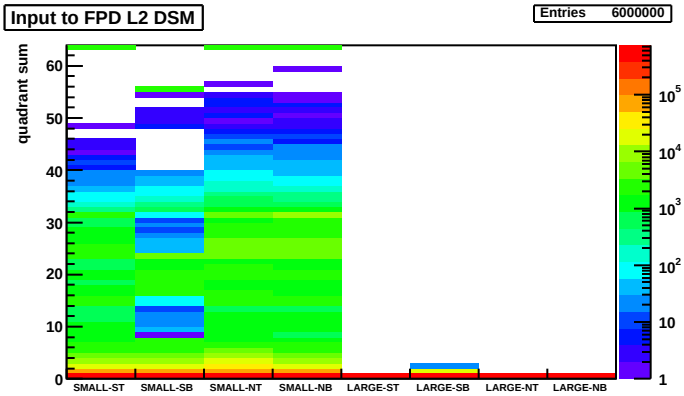

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

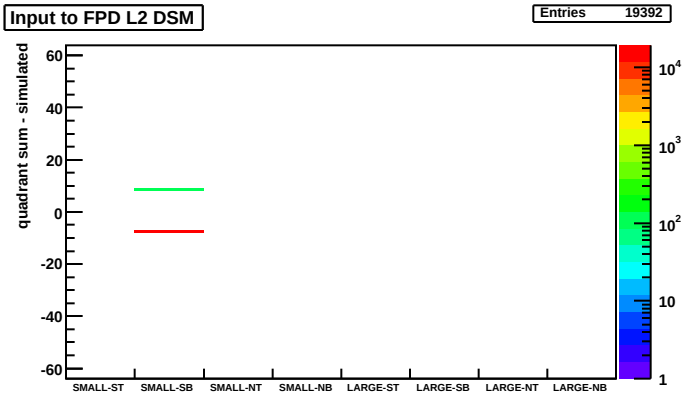

Input to FMS L1 DSM
Entries 9000000
sumA
DSM board

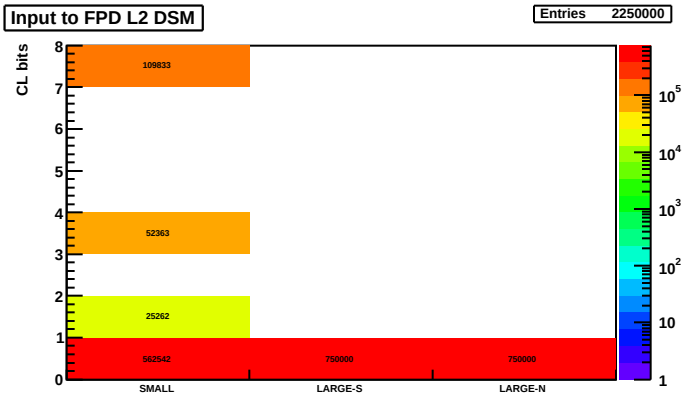

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

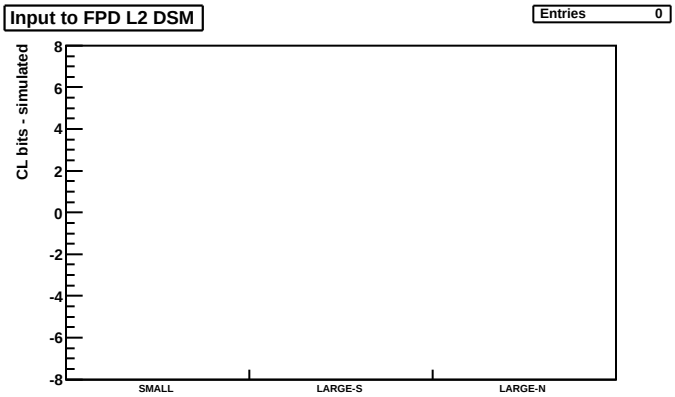

Input to FMS L1 DSM
Entries 9000000
FMS L1 HT bits
DSM board

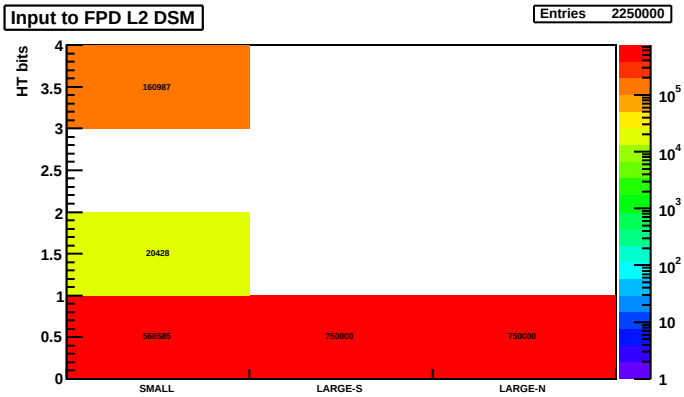

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

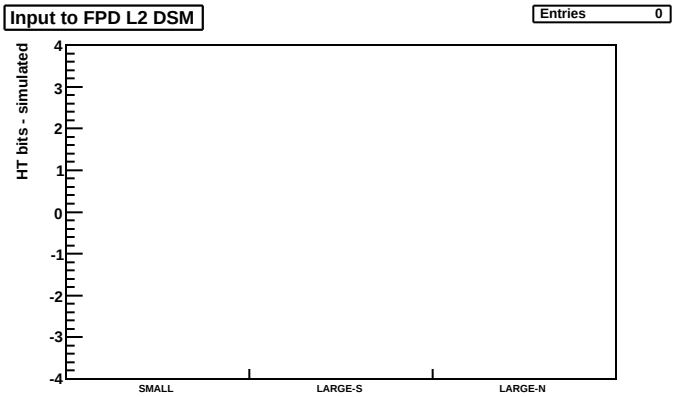

Input to FPD L2 DSM
Entries 6000000
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

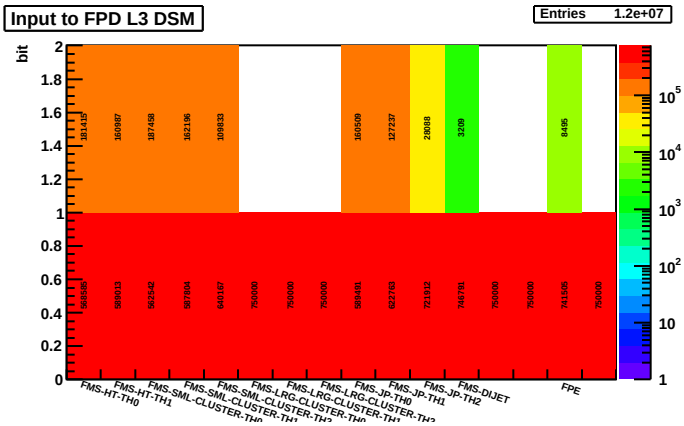

Input to FPD L2 DSM
Entries 19392
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

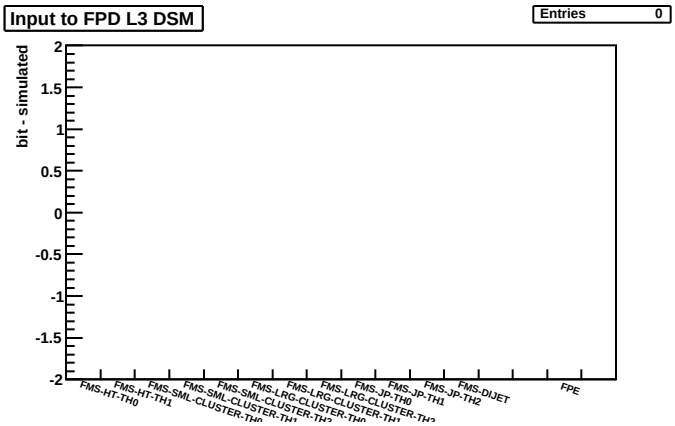

Input to FPD L2 DSM
Entries 2250000
CL bits
109833
52363
25262
562542
750000
750000
SMALL
LARGE-S
LARGE-N

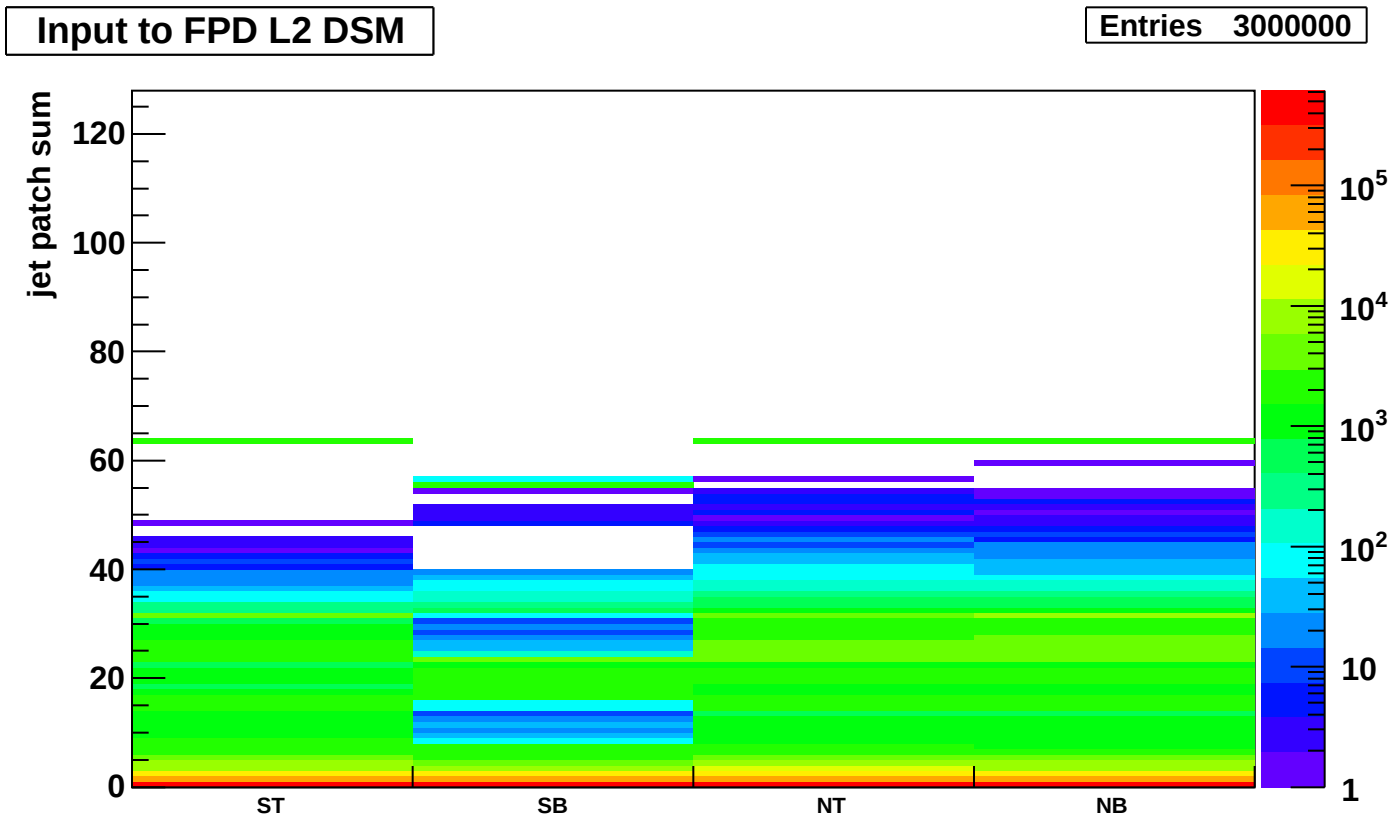

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

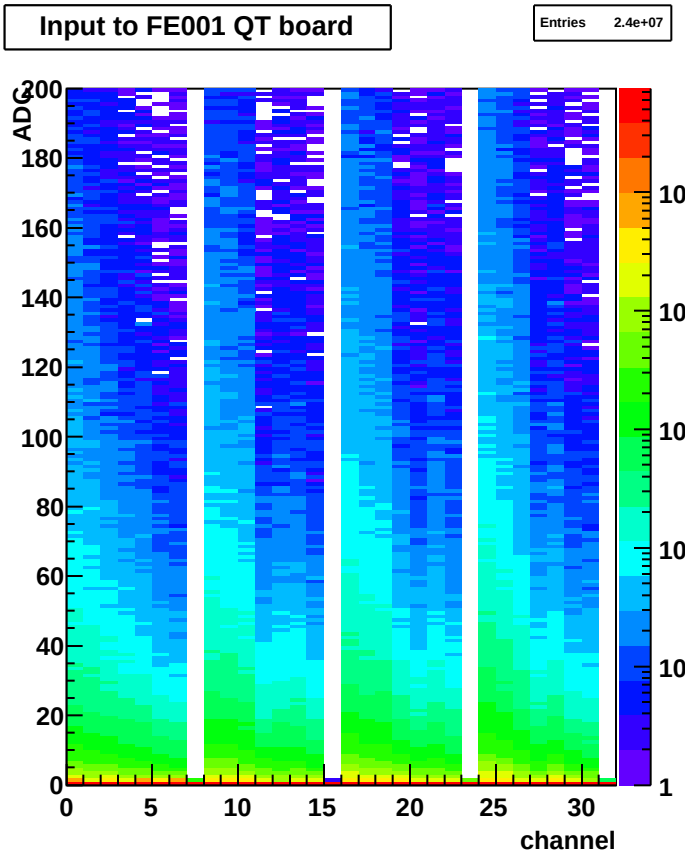

Input to FPD L2 DSM
Entries 2250000
HT bits
160987
20428
568585
750000
750000
SMALL
LARGE-S
LARGE-N

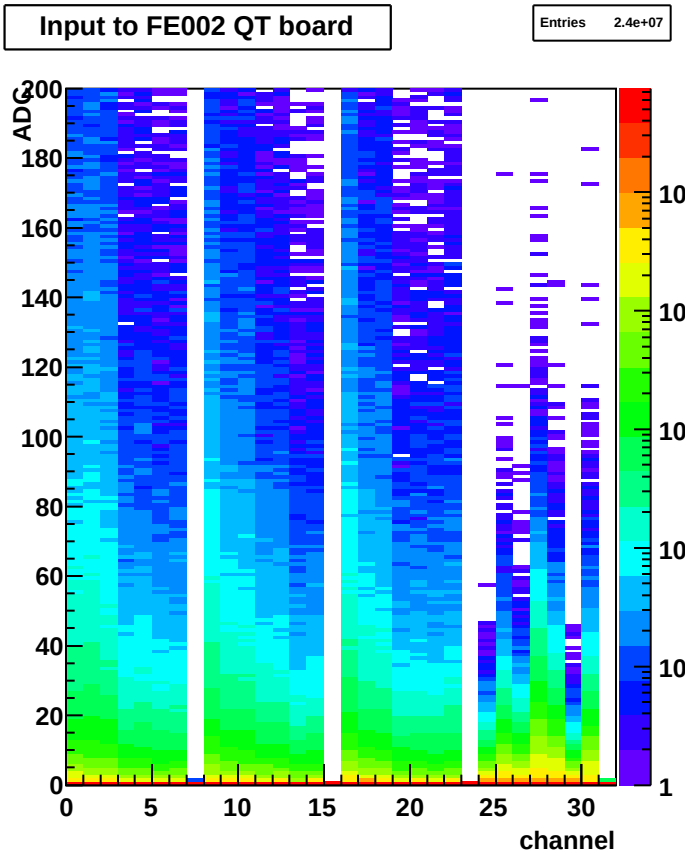

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

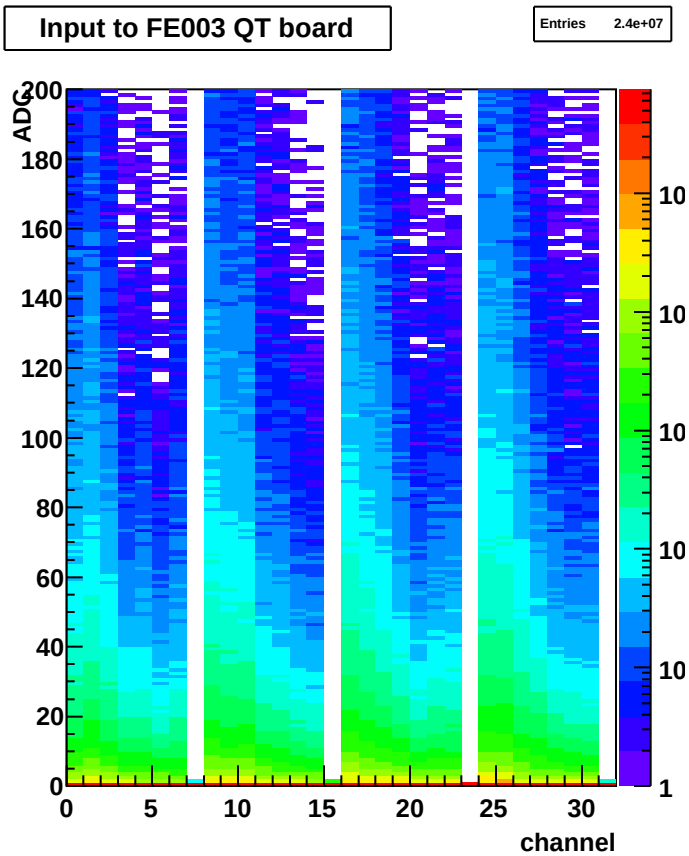

Input to FPD L3 DSM
Entries 1.2e+07
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

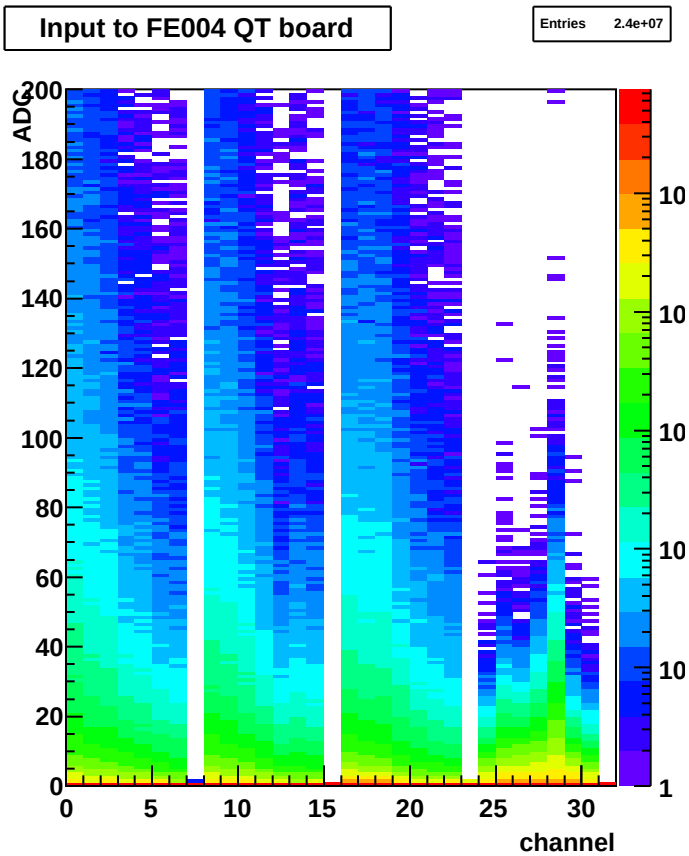

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

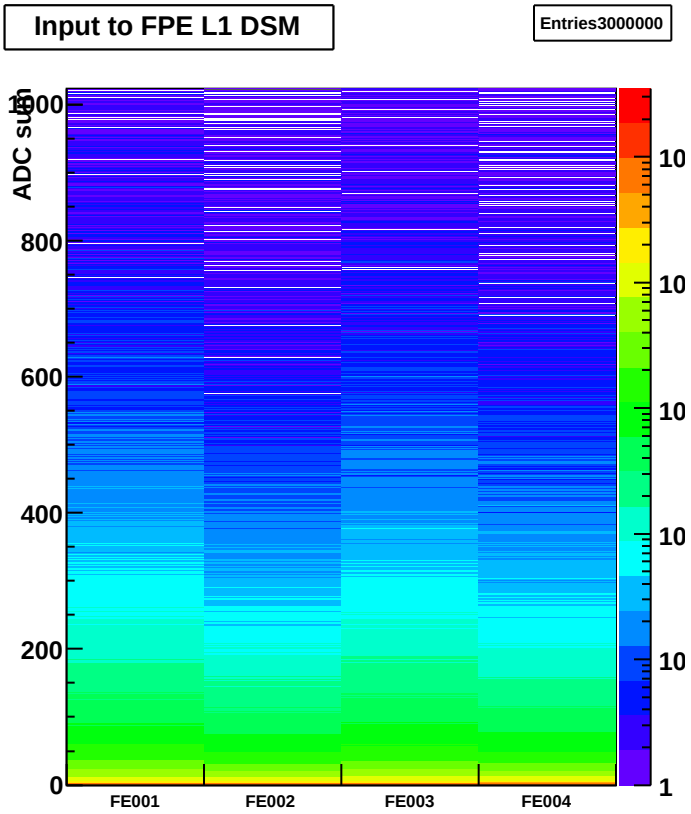

Input to FPD L2 DSM
Entries 3000000
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^5
10^4
10^3
10^2
10
1

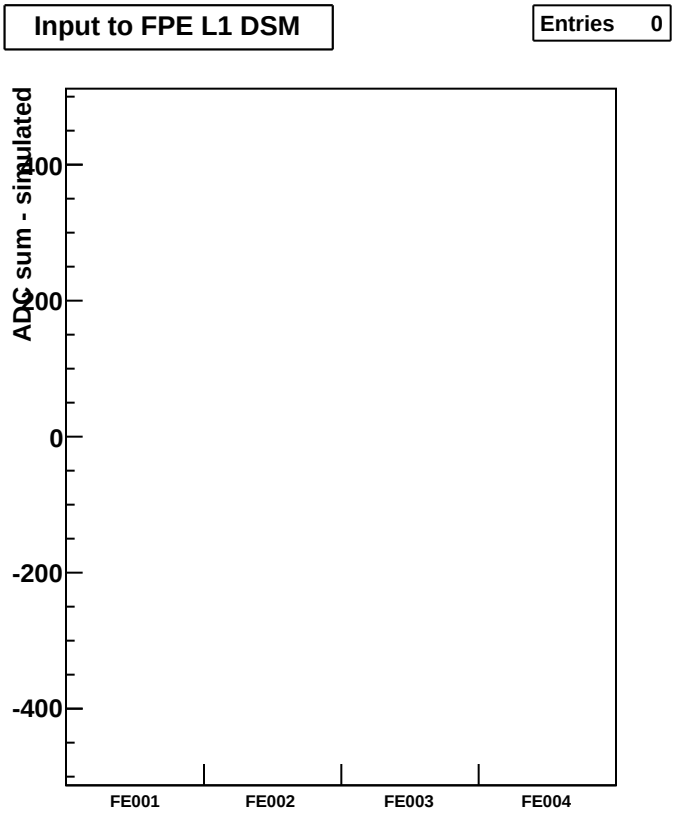

Input to FE001 QT board
Entries 2.4e+07
ADC
channel

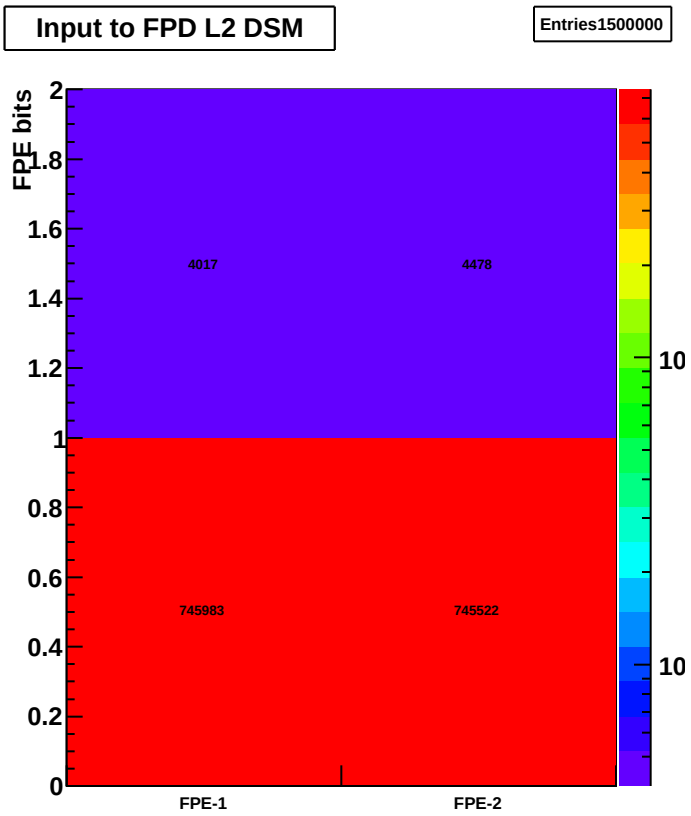

Input to FE002 QT board
Entries 2.4e+07
ADC
channel

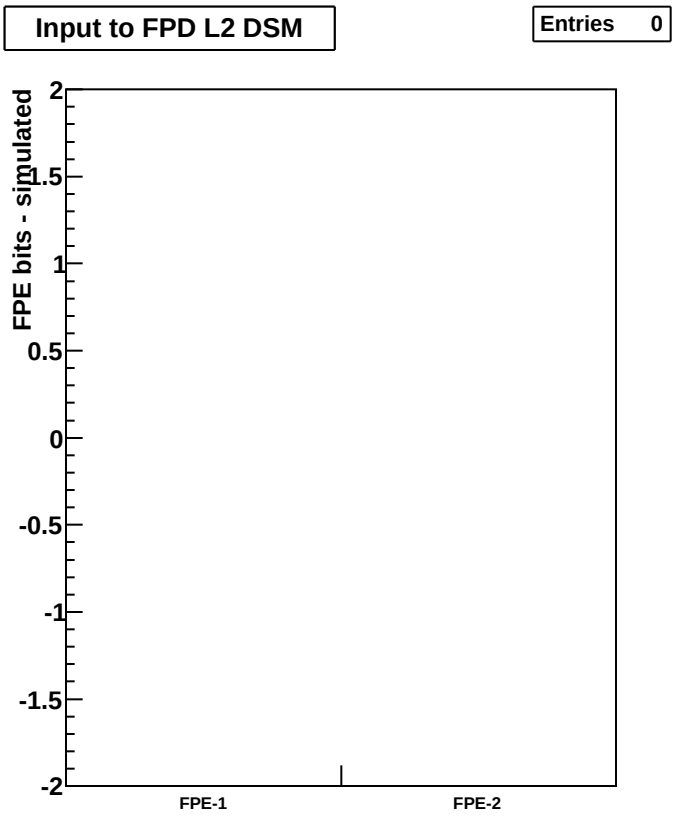

Input to FE003 QT board
Entries 2.4e+07
ADC
channel


Input to FE004 QT board
Entries 2.4e+07
ADC
channel


Input to FPE L1 DSM
Entries3000000
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
Entries1500000
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4017
4478
745983
745522
FPE-1
FPE-2
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