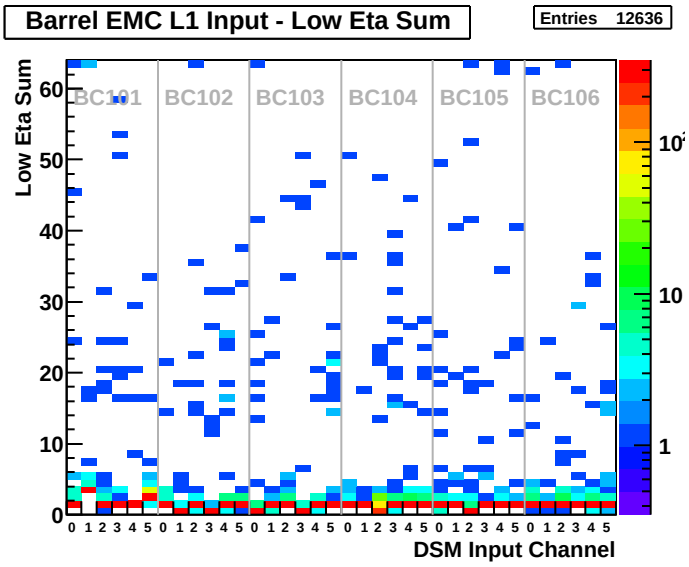
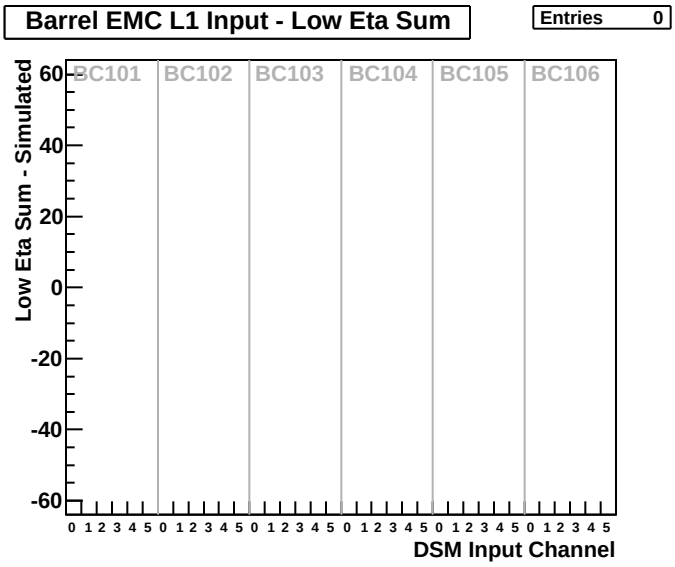
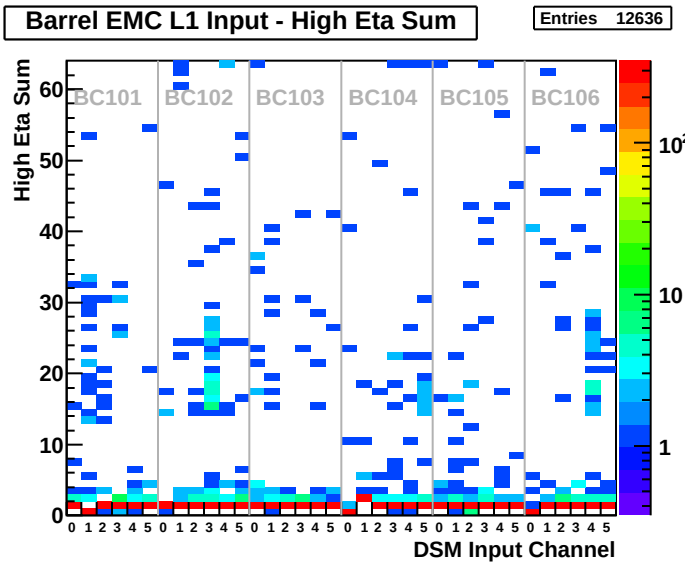
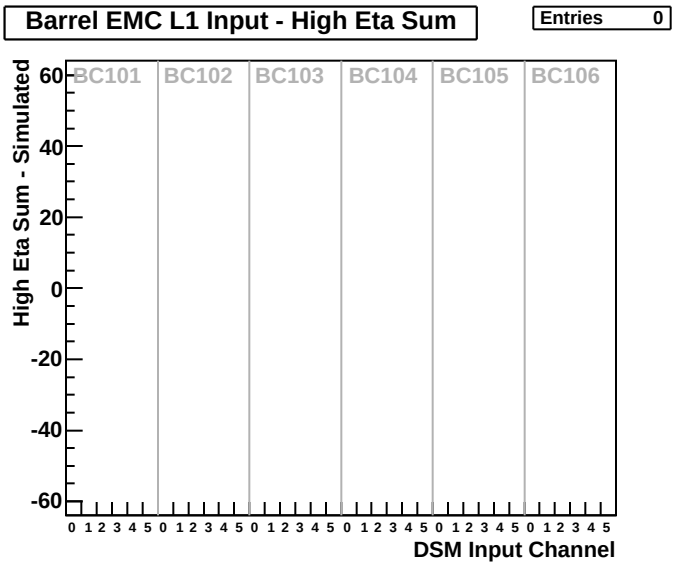
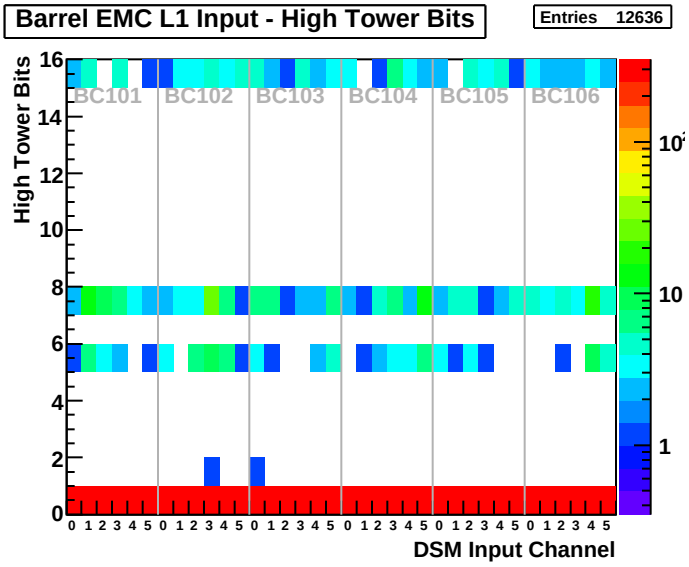
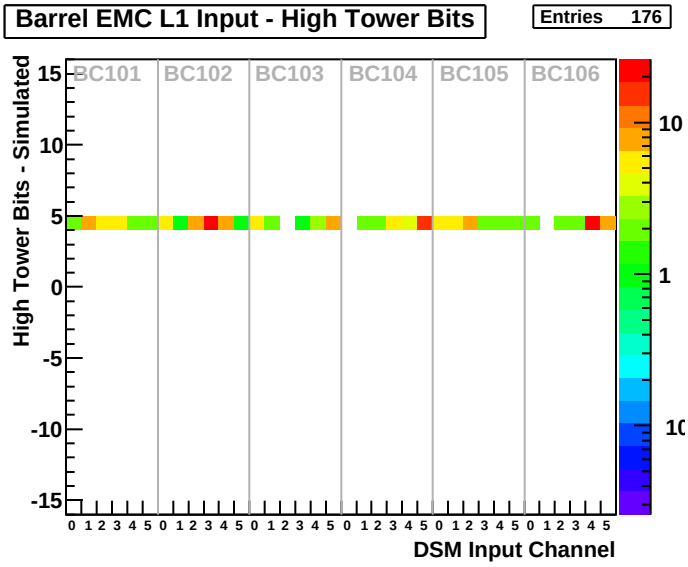

Barrel EMC L1 Input - Low Eta Sum
Entries 12636
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

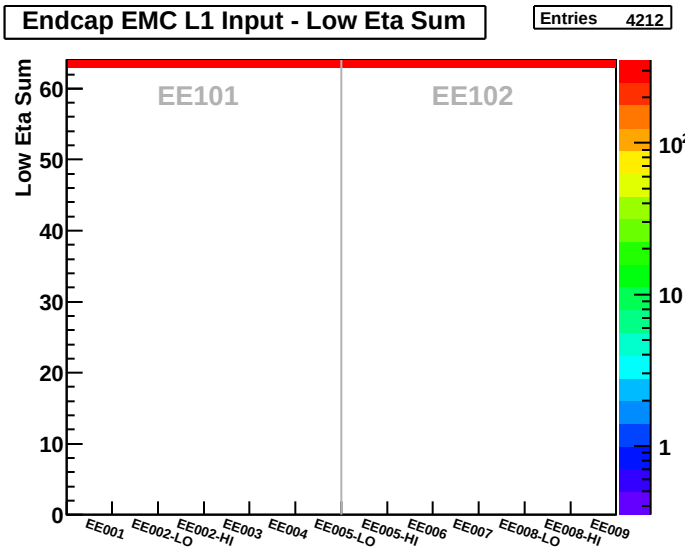

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

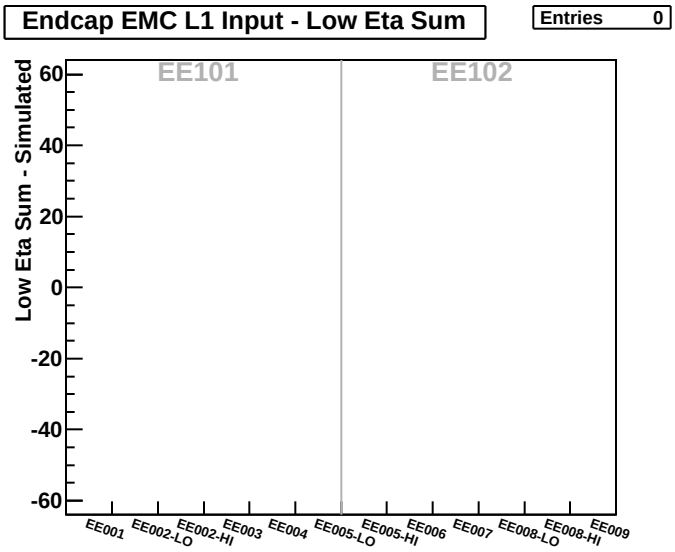

Barrel EMC L1 Input - High Eta Sum
Entries 12636
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

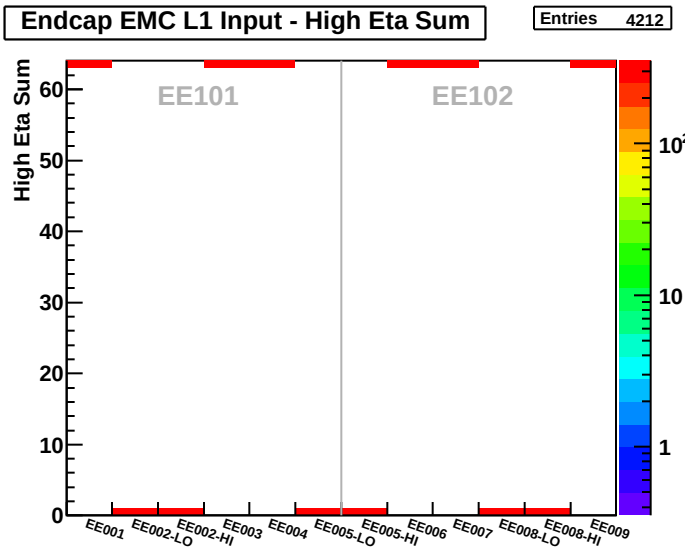

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

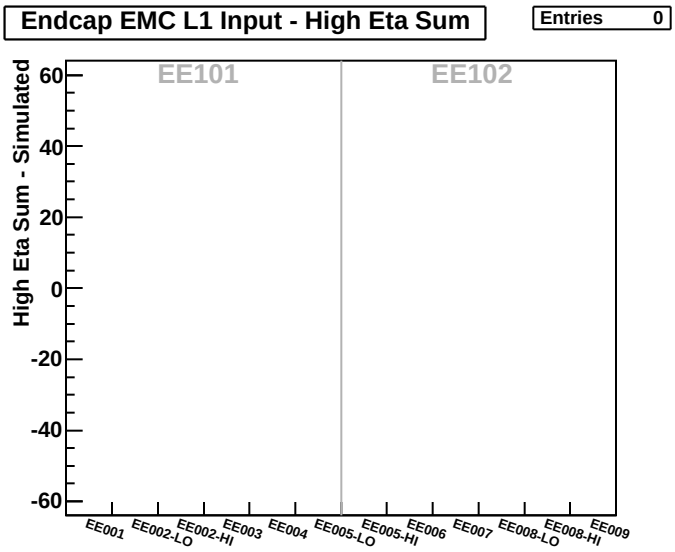

Barrel EMC L1 Input - High Tower Bits
Entries 12636
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

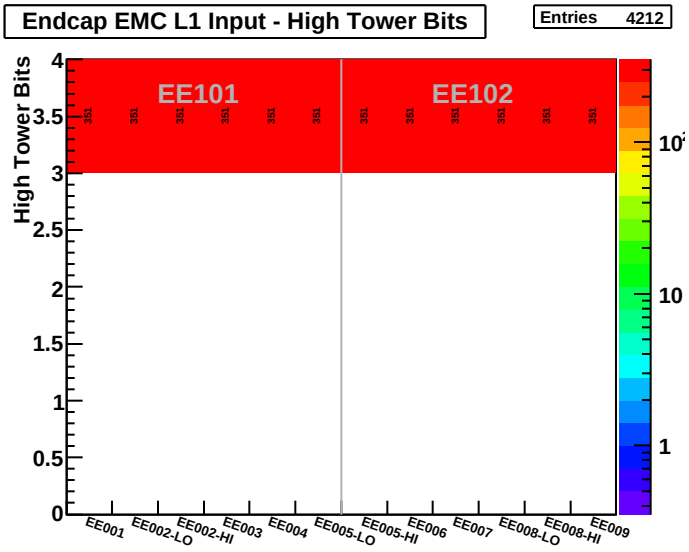

Barrel EMC L1 Input - High Tower Bits
Entries 176
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

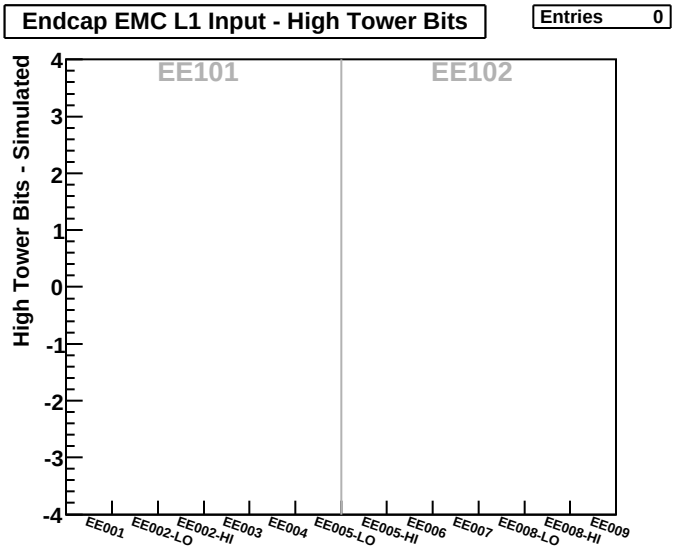

Endcap EMC L1 Input - Low Eta Sum
Entries 4212
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

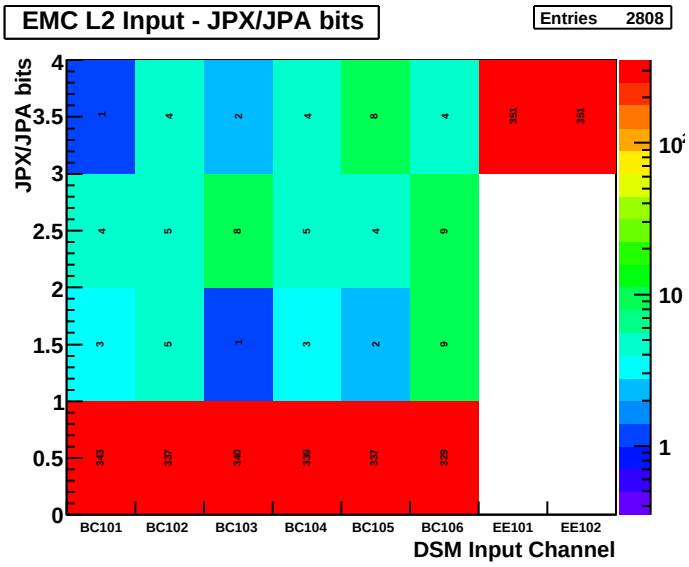

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

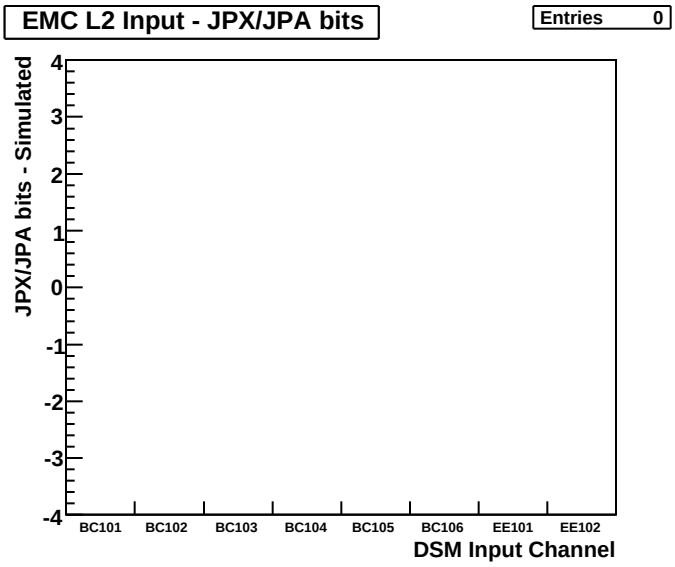

Endcap EMC L1 Input - High Eta Sum
Entries 4212
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

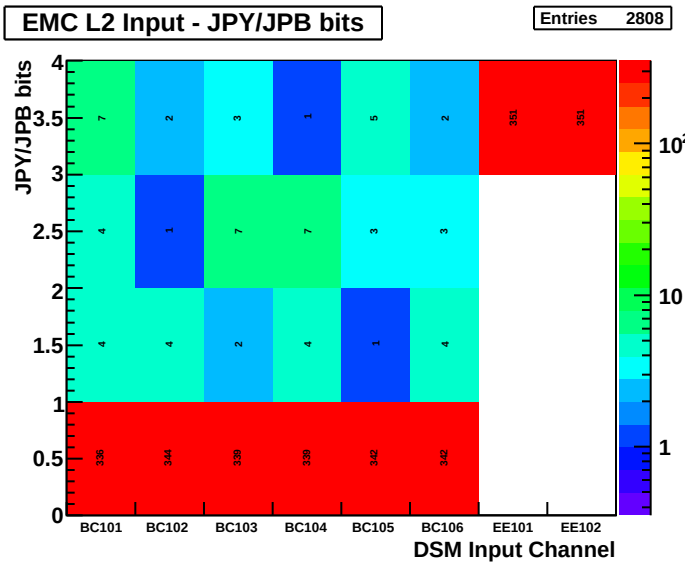

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

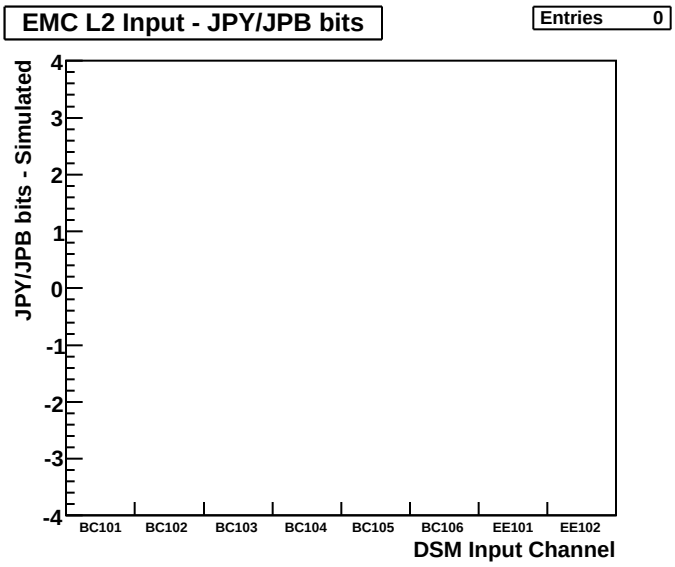

Endcap EMC L1 Input - High Tower Bits
Entries 4212
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

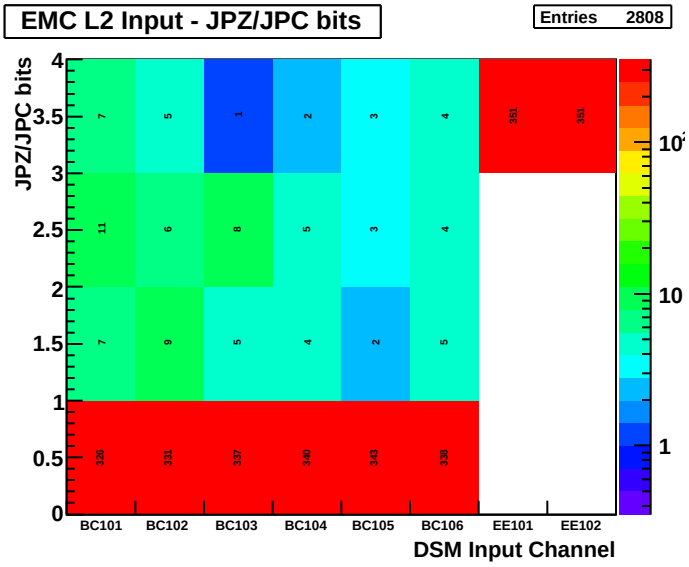

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

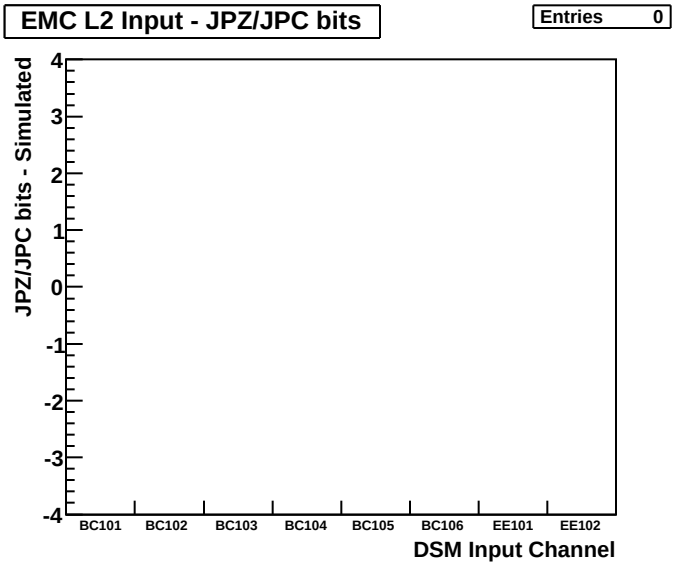

EMC L2 Input - JPX/JPA bits
Entries 2808
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

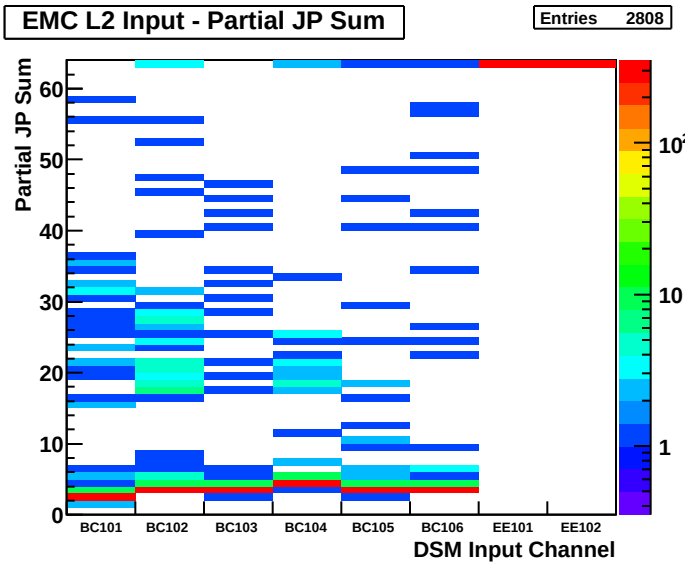

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

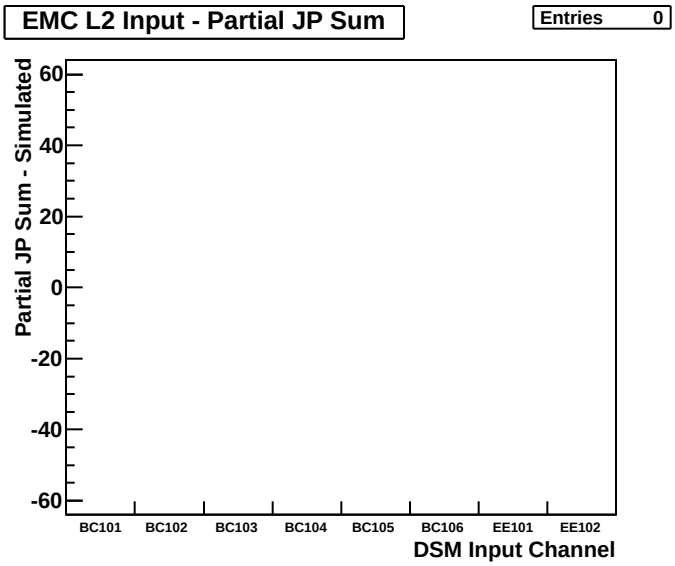

EMC L2 Input - JPY/JPB bits
Entries 2808
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

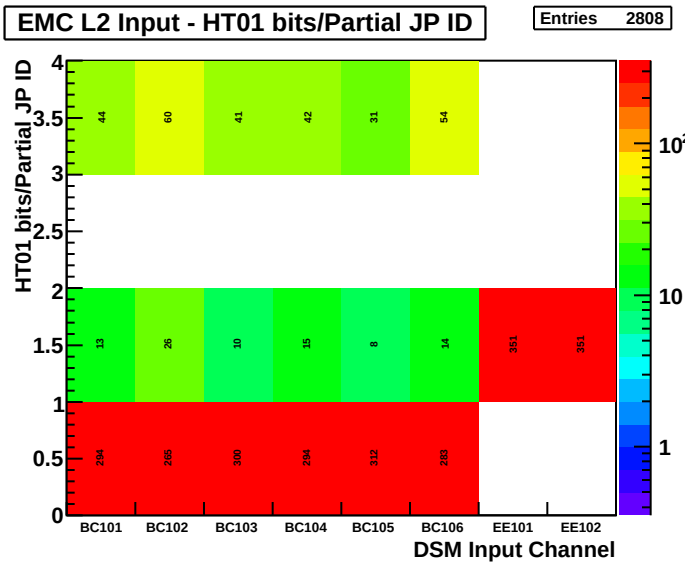

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

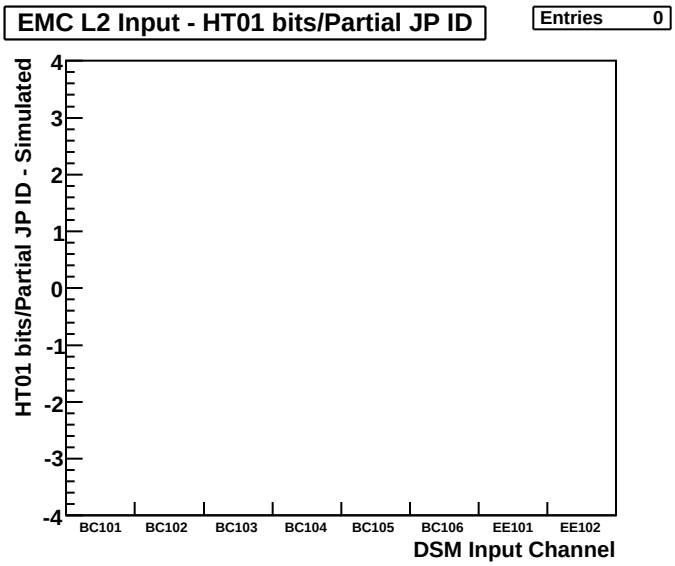

EMC L2 Input - JPZ/JPC bits
Entries 2808
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

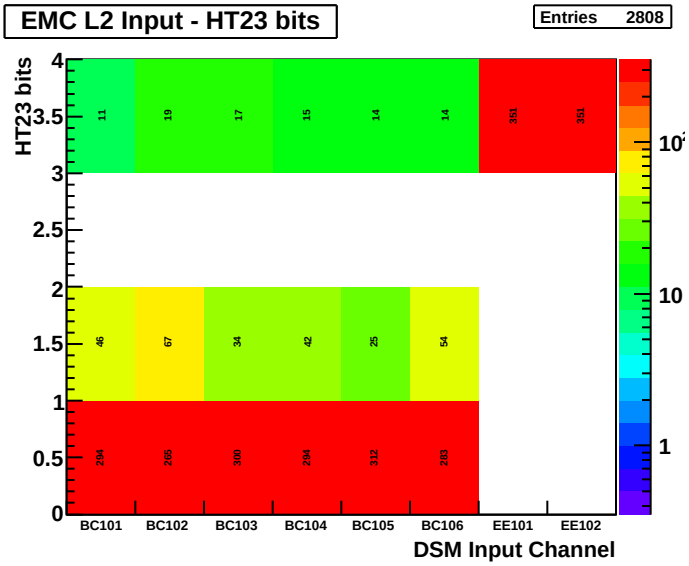

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

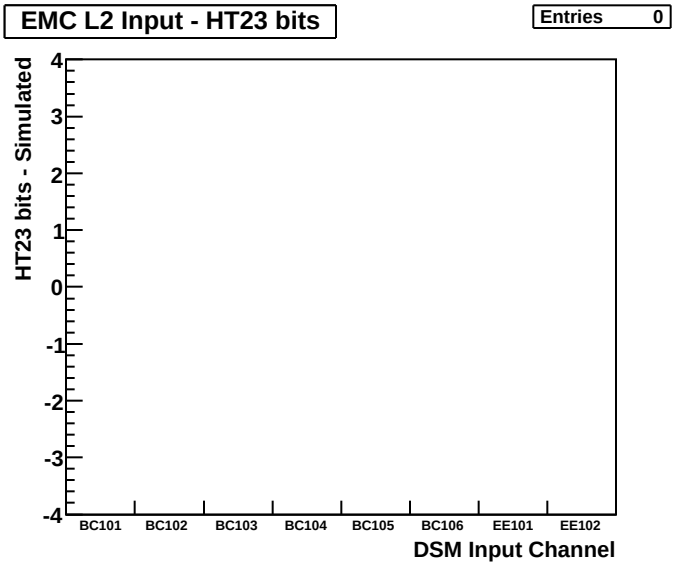

EMC L2 Input - Partial JP Sum
Entries 2808
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

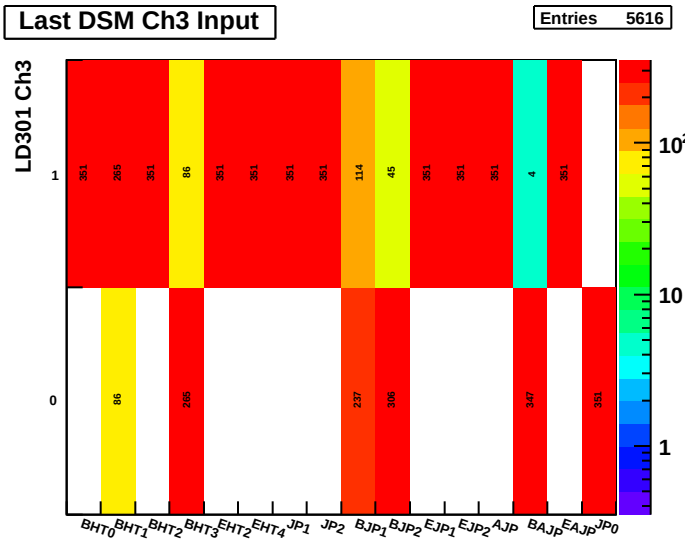

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

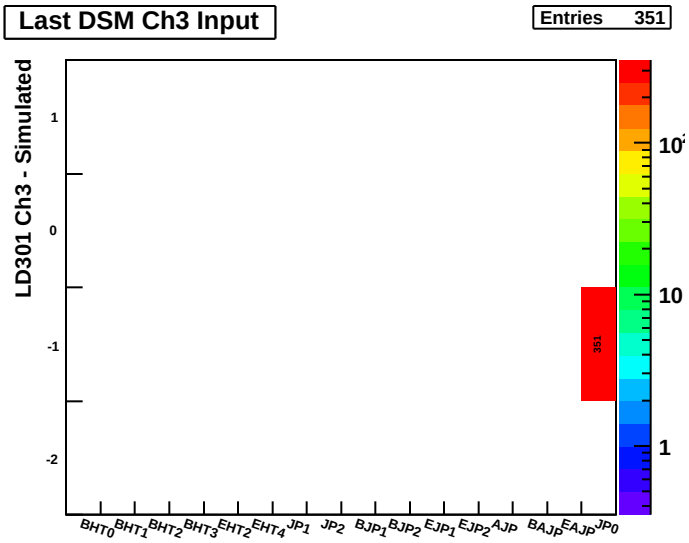

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2808
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

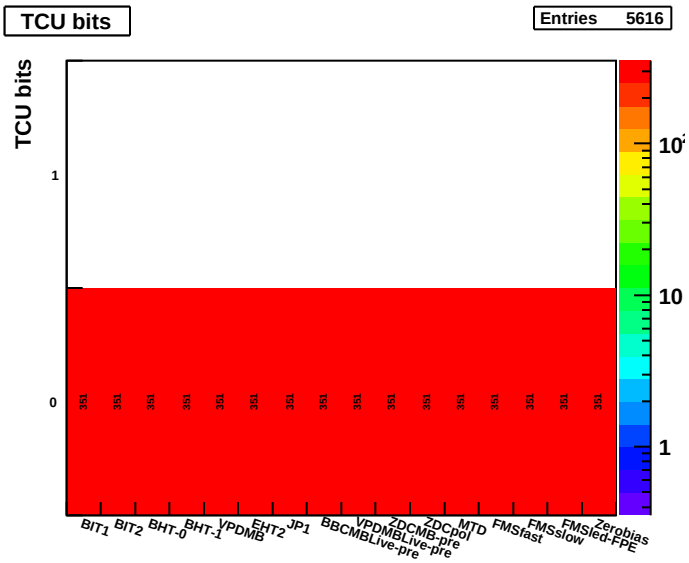

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

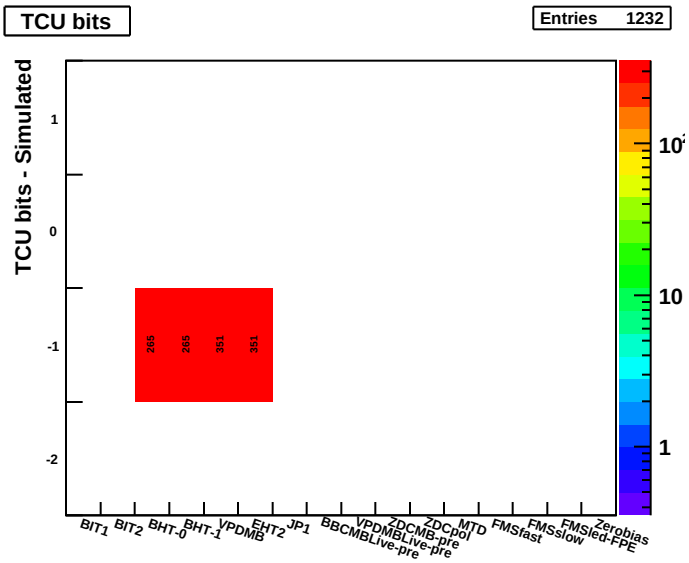

EMC L2 Input - HT23 bits
Entries 2808
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

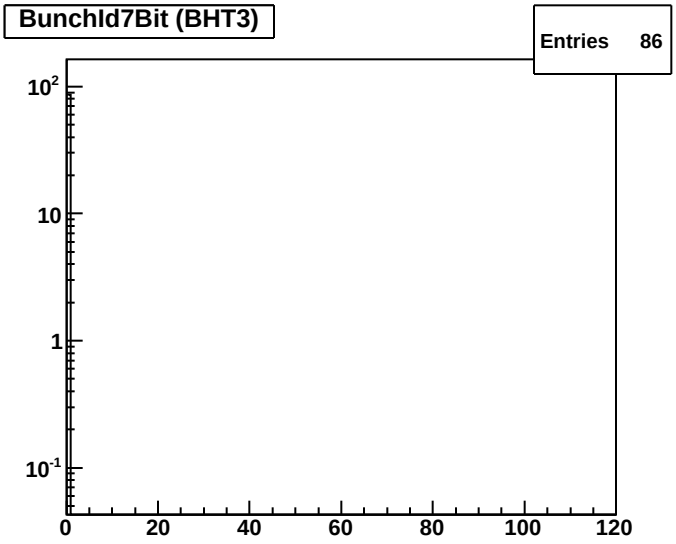

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

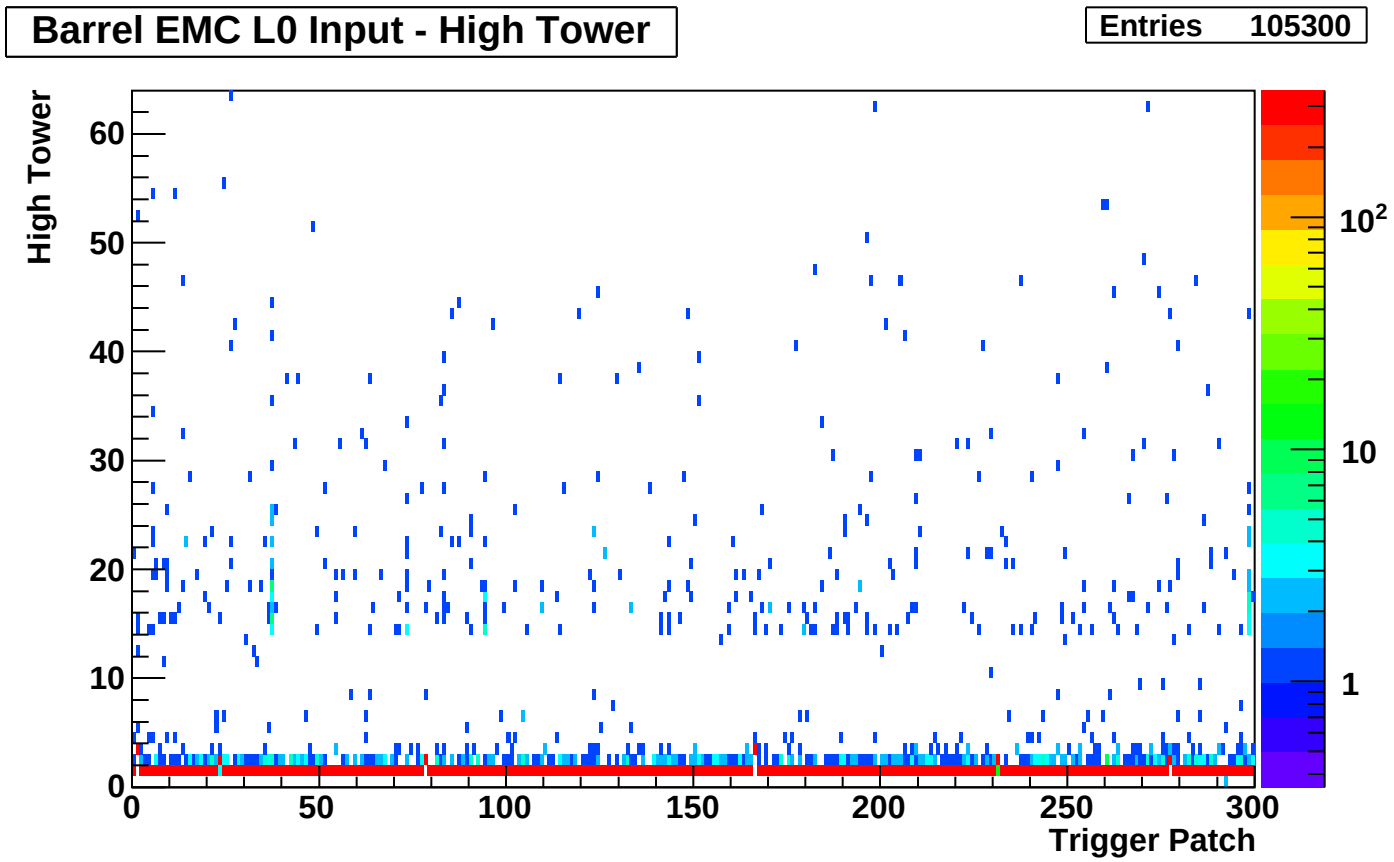

Last DSM Ch3 Input
Entries 5616
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

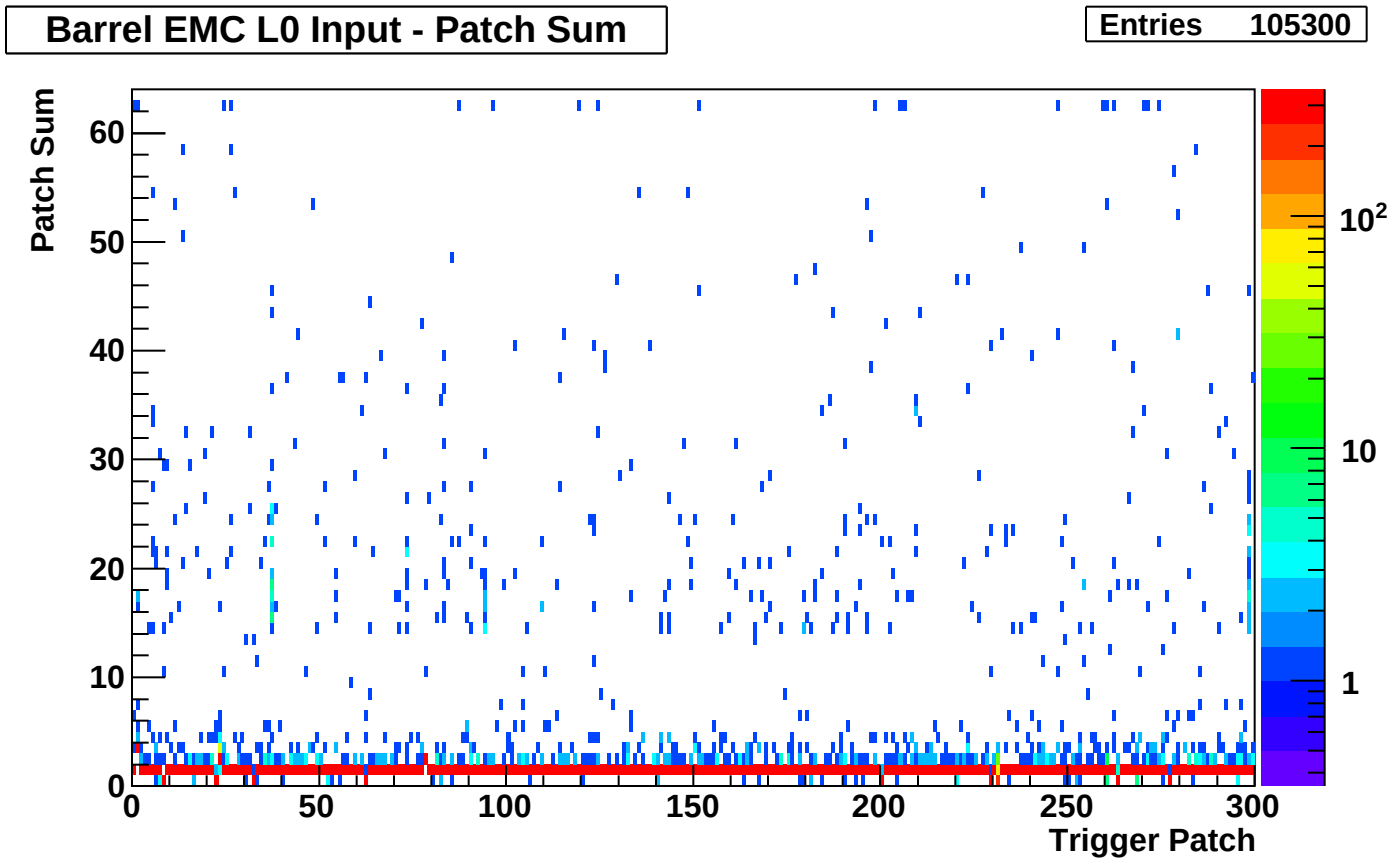

Last DSM Ch3 Input
Entries 351
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

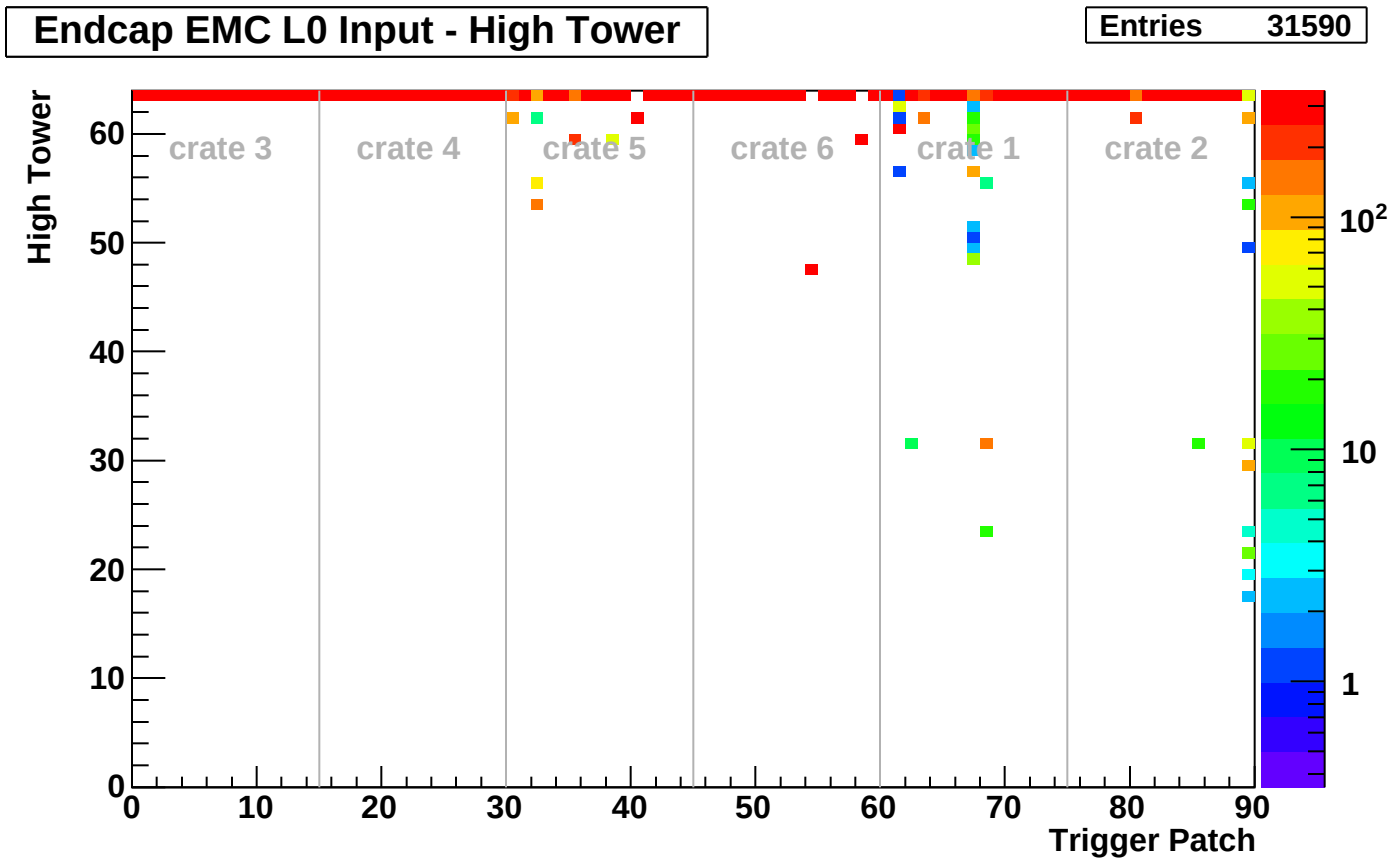

TCU bits
Entries 5616
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

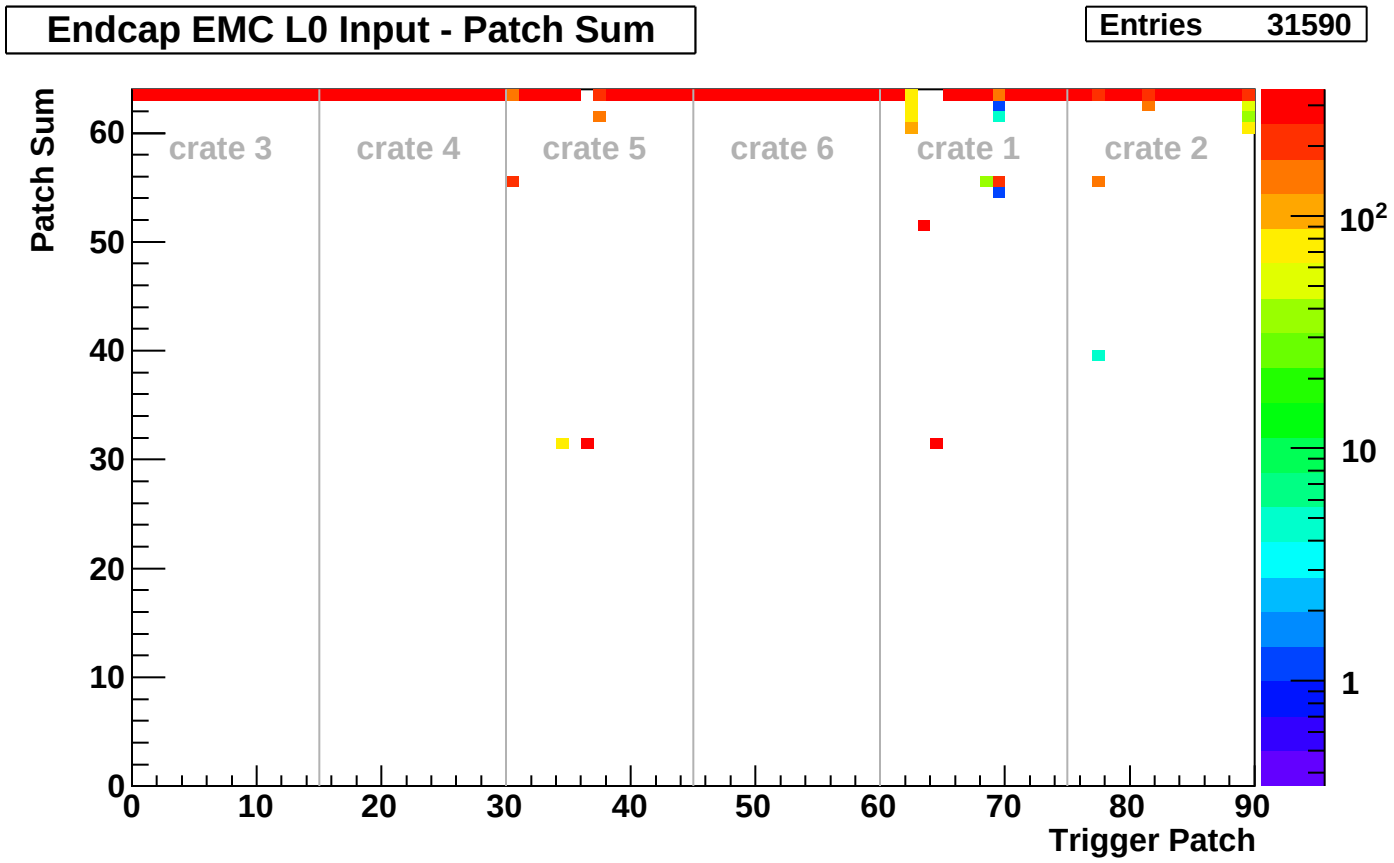

TCU bits
Entries 1232
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

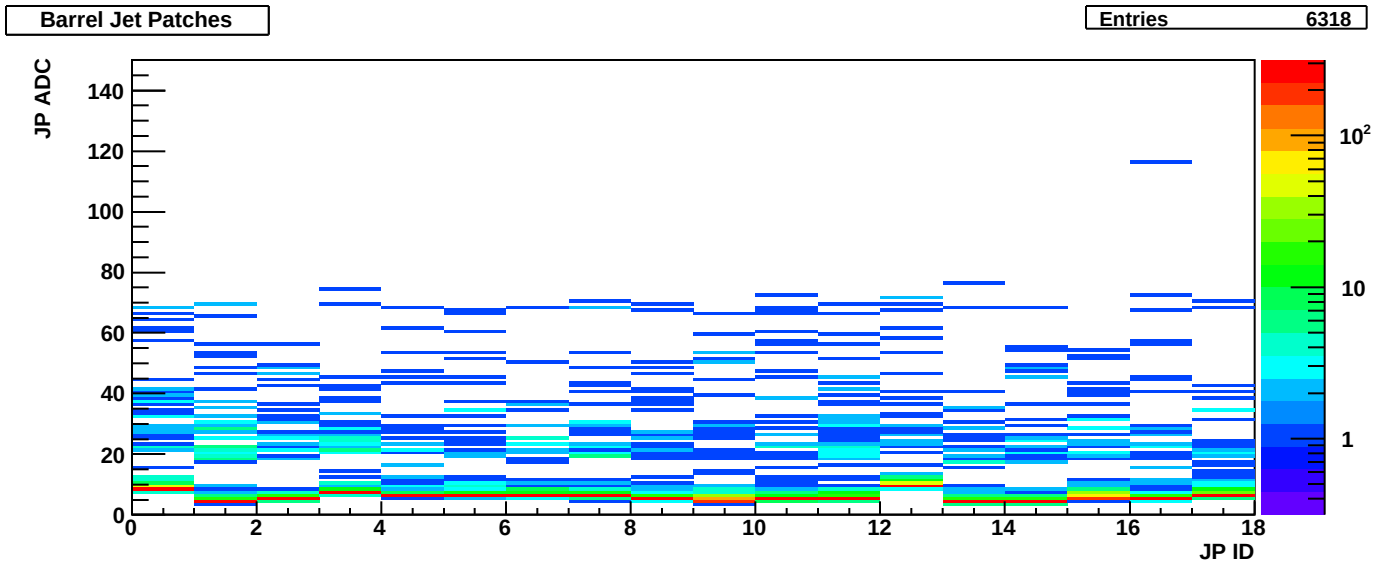

BunchId7Bit (BHT3)
Entries 86

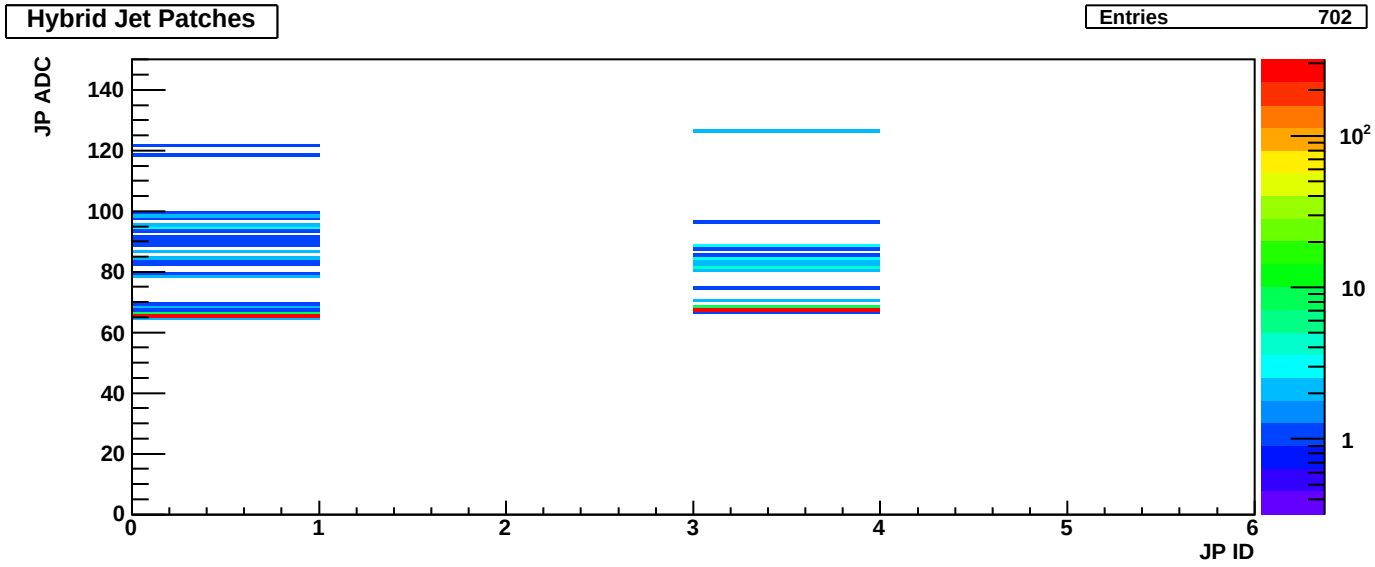

Barrel EMC L0 Input - High Tower
Entries 105300
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2

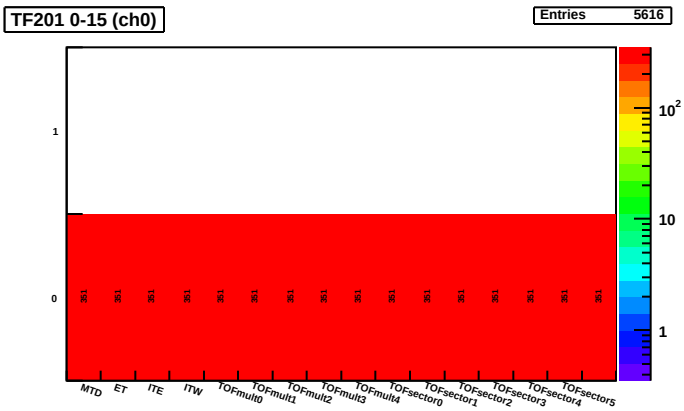

Barrel EMC L0 Input - Patch Sum
Entries 105300
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2

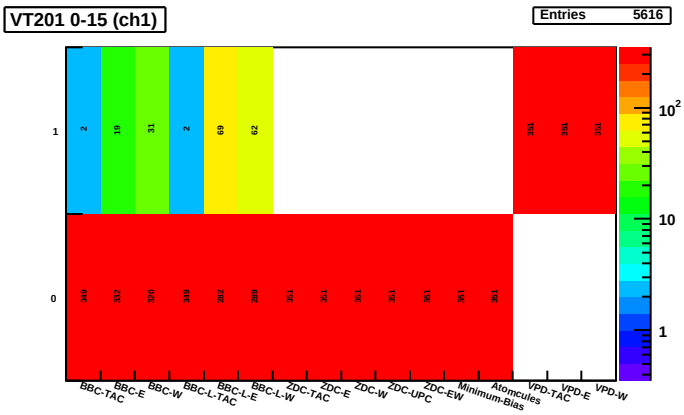

Endcap EMC L0 Input - High Tower
Entries 31590
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2

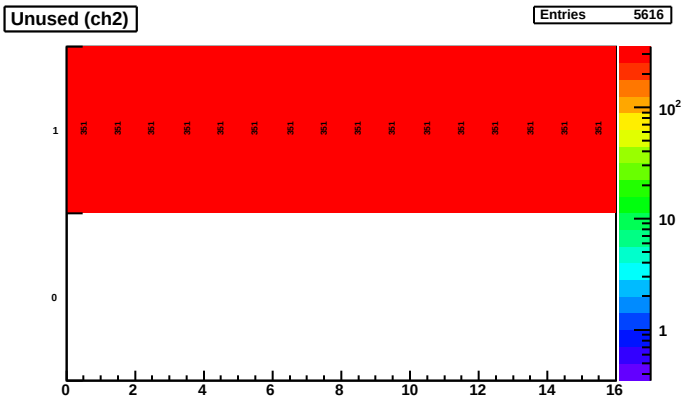

Endcap EMC L0 Input - Patch Sum
Entries 31590
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2

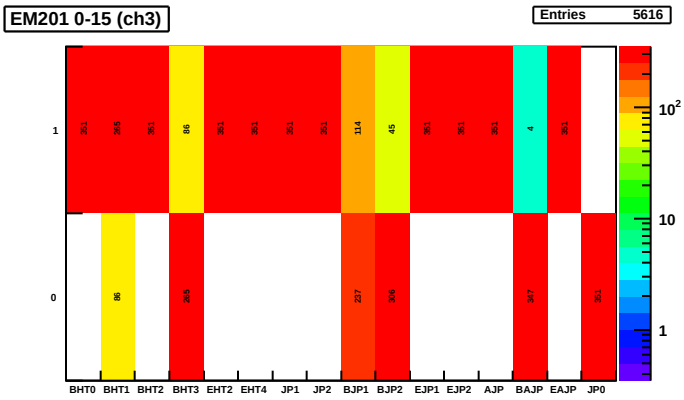

Barrel Jet Patches
Entries 6318
JP ADC
JP ID

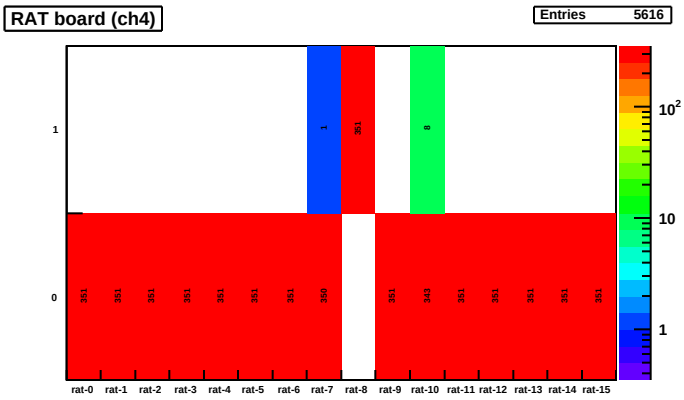

Hybrid Jet Patches
Entries 702
JP ADC
JP ID

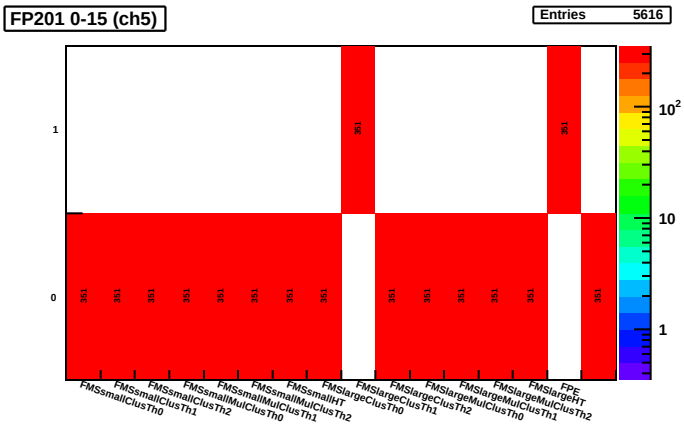

TF201 0-15 (ch0)
Entries 5616
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

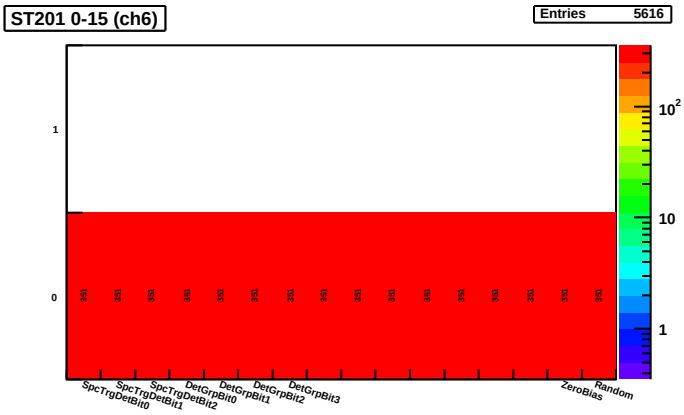

VT201 0-15 (ch1)
Entries 5616
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

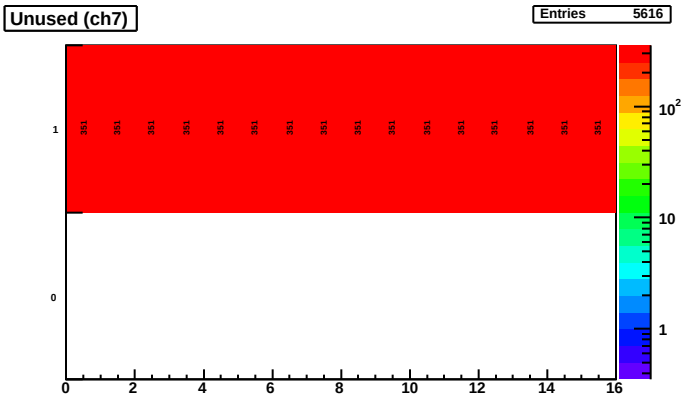

Unused (ch2)
Entries 5616

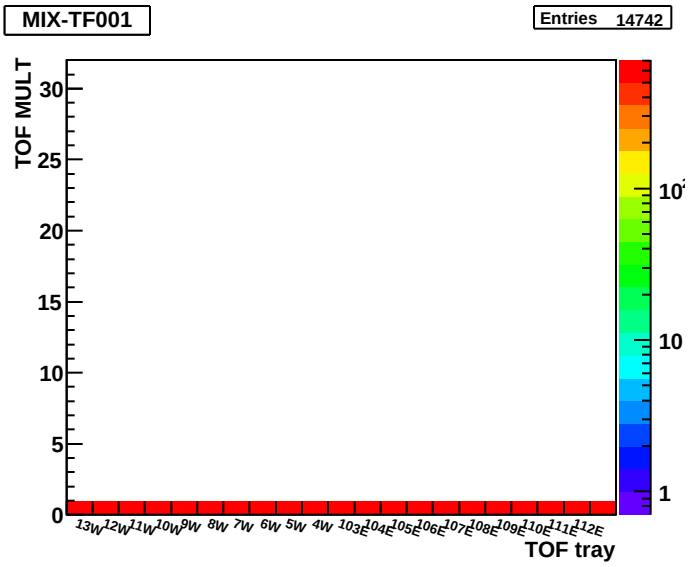

EM201 0-15 (ch3)
Entries 5616
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

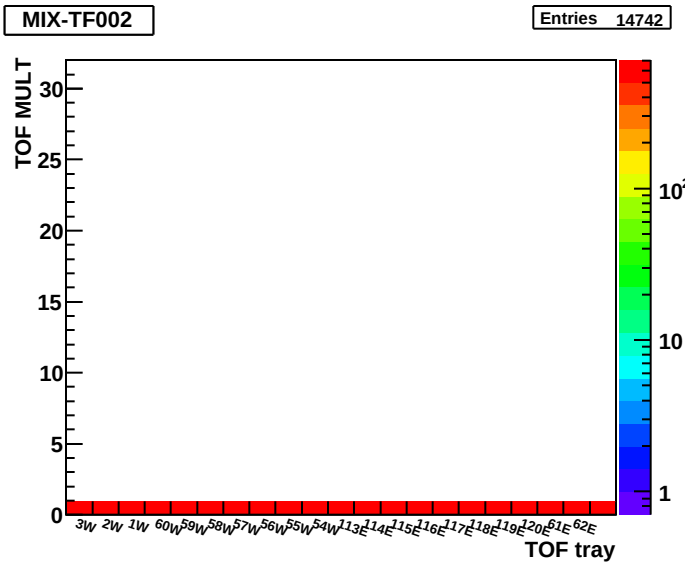

RAT board (ch4)
Entries 5616
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

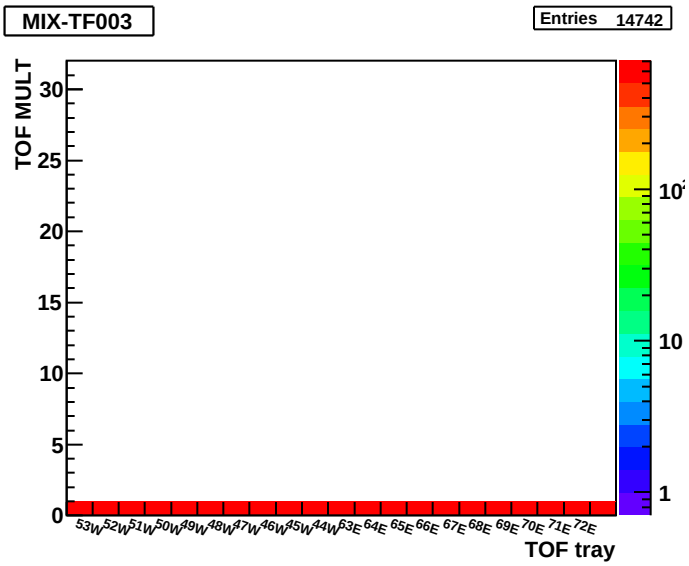

FP201 0-15 (ch5)
Entries 5616
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

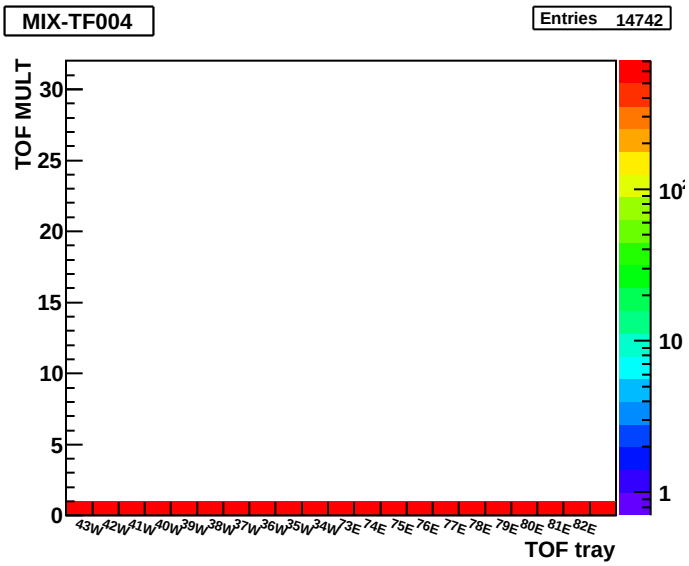

ST201 0-15 (ch6)
Entries 5616
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random

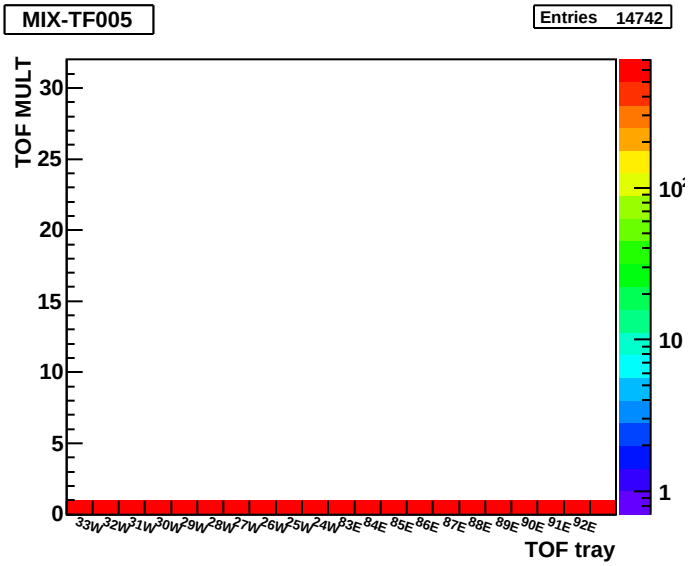

Unused (ch7)
Entries 5616

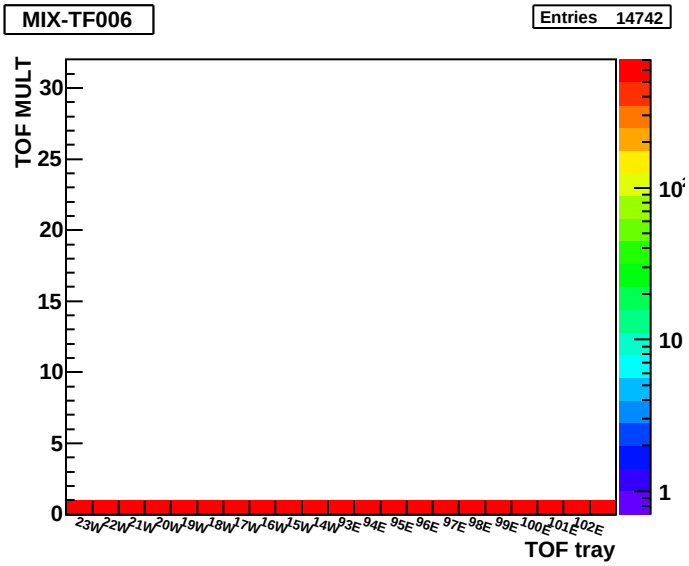

MIX-TF001
Entries 14742
TOF MULT
TOF tray

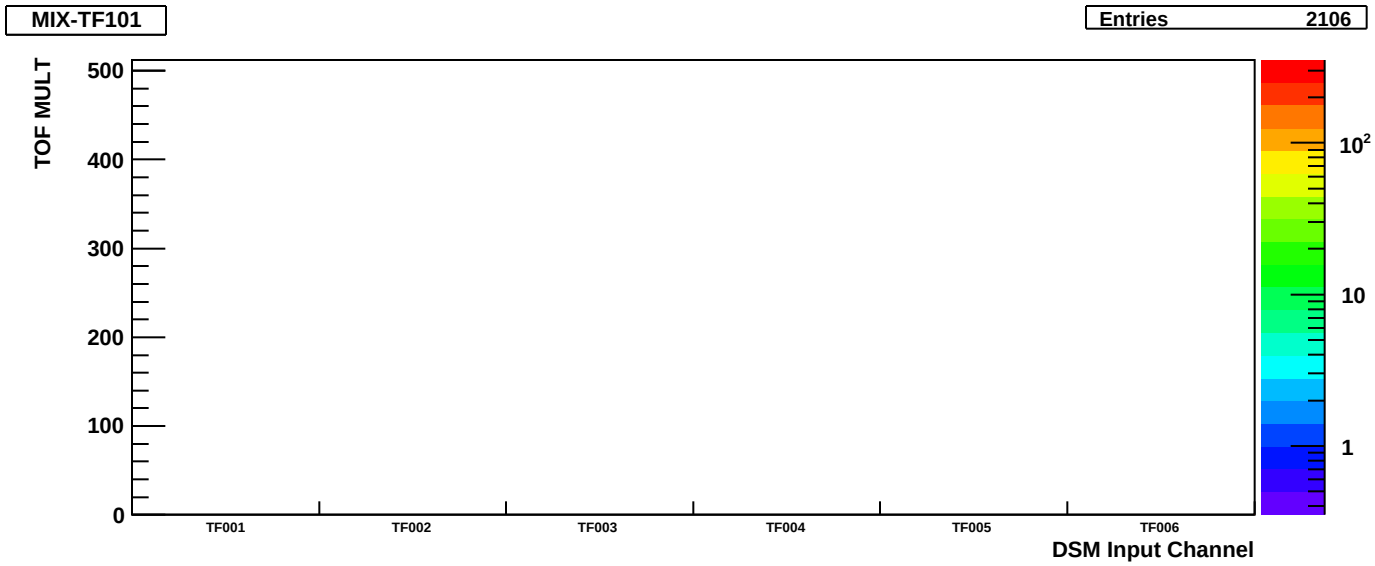

MIX-TF002
Entries 14742
TOF MULT
TOF tray

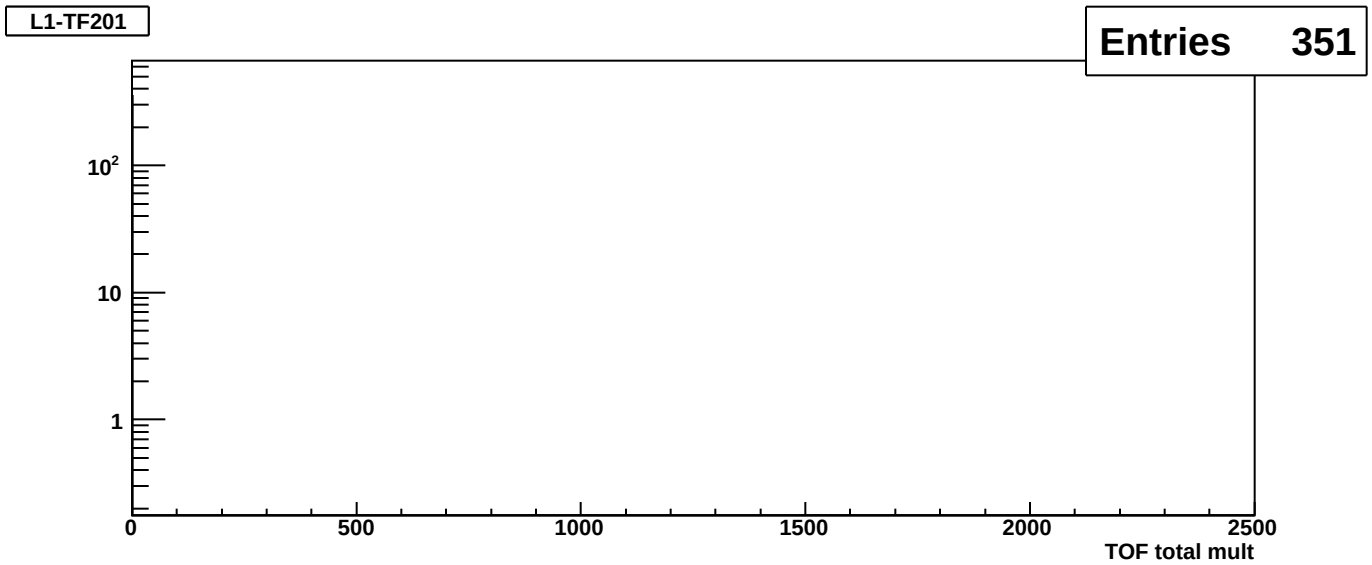

MIX-TF003
Entries 14742
TOF MULT
TOF tray

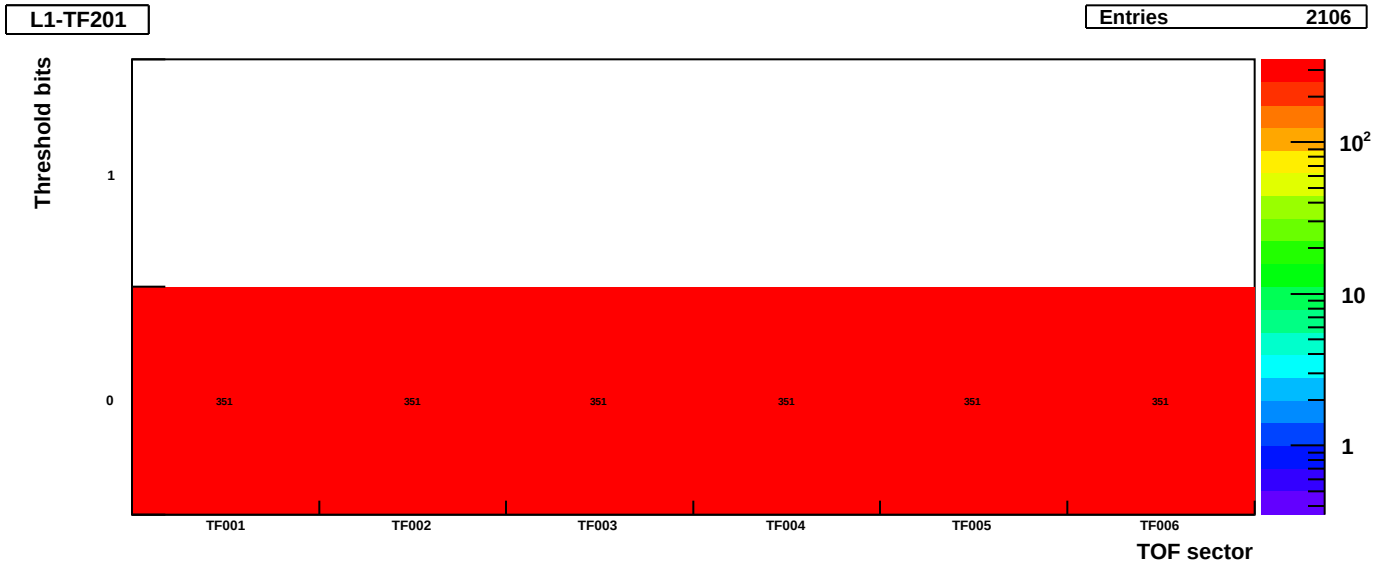

MIX-TF004
Entries 14742
TOF MULT
TOF tray

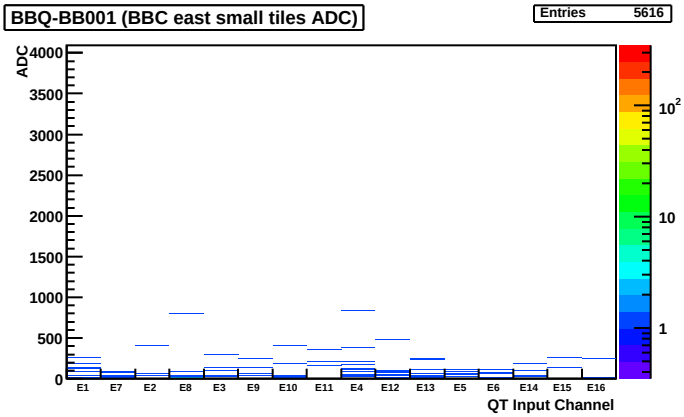

MIX-TF005
Entries 14742
TOF MULT
TOF tray

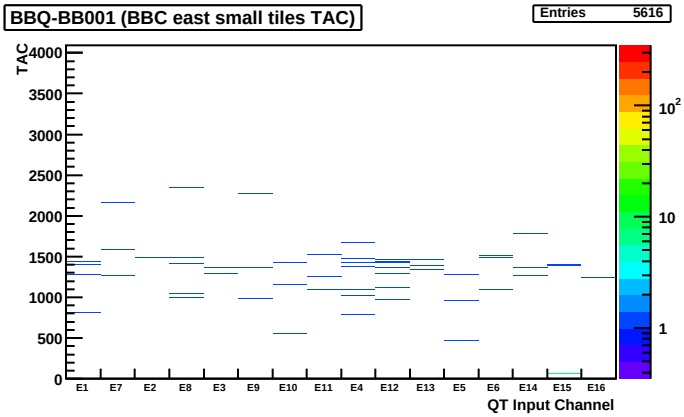

MIX-TF006
Entries 14742
TOF MULT
TOF tray

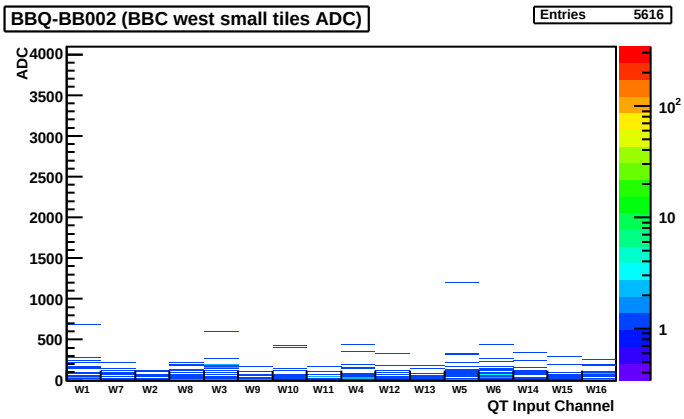

MIX-TF101
Entries 2106
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^2
10
1

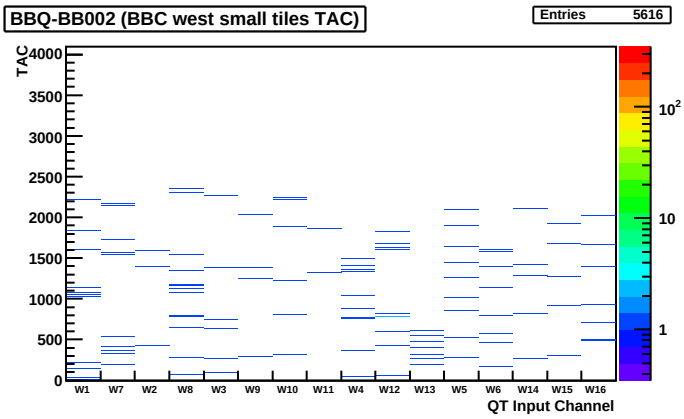

L1-TF201
Entries 351
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

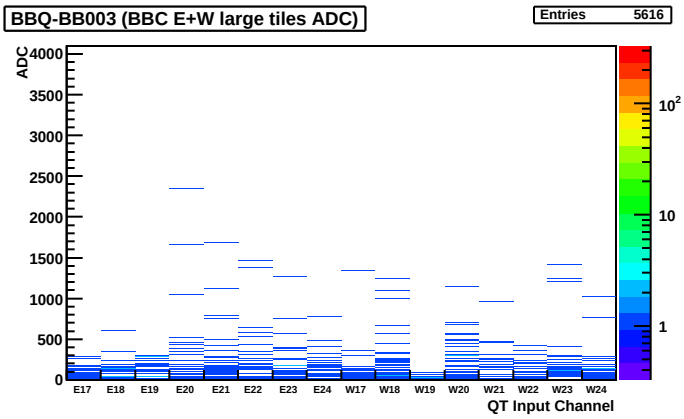

L1-TF201
Entries 2106
Threshold bits
1
0
351
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^2
10
1

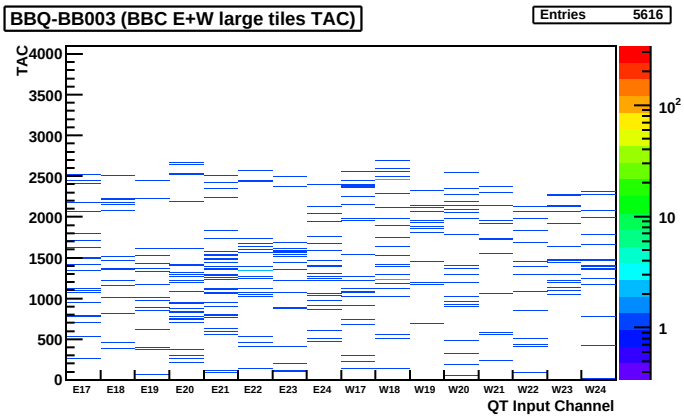

BBQ-BB001 (BBC east small tiles ADC)
Entries 5616
ADC
QT Input Channel

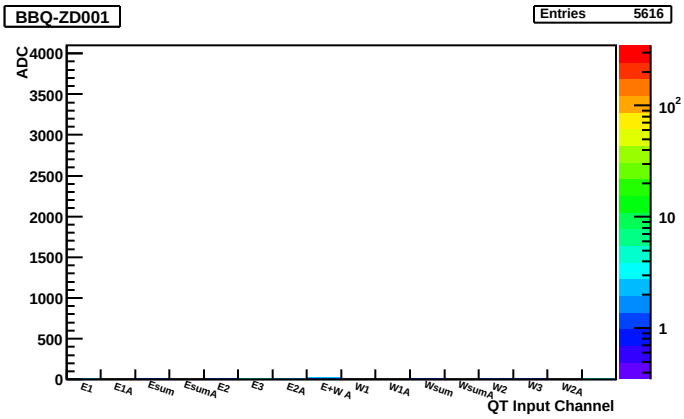

BBQ-BB001 (BBC east small tiles TAC)
Entries 5616
TAC
QT Input Channel

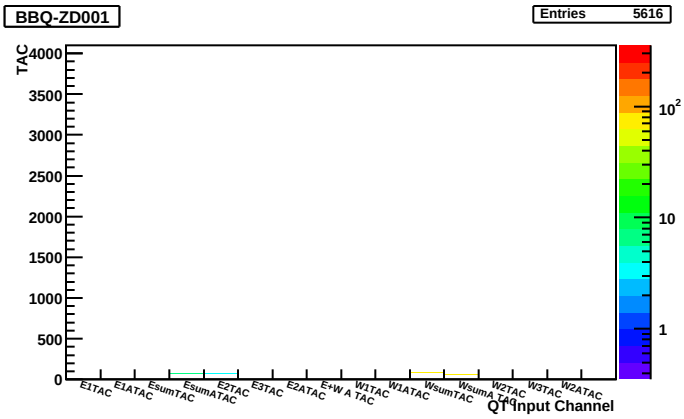

BBQ-BB002 (BBC west small tiles ADC)
Entries 5616
ADC
QT Input Channel

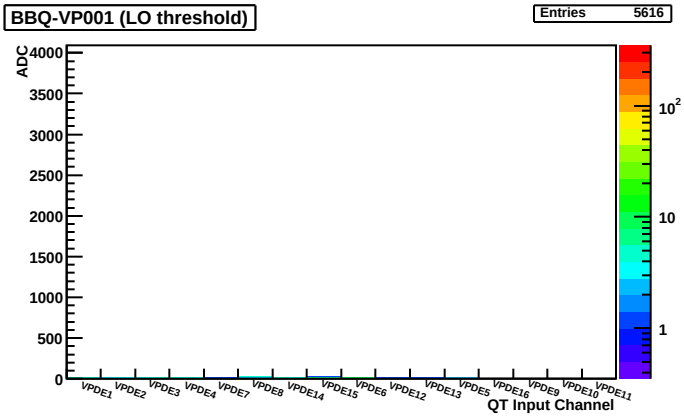

BBQ-BB002 (BBC west small tiles TAC)
Entries 5616
TAC
QT Input Channel

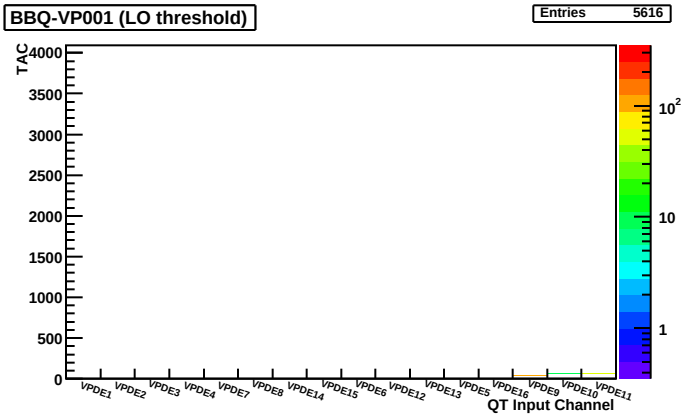

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5616
ADC
QT Input Channel

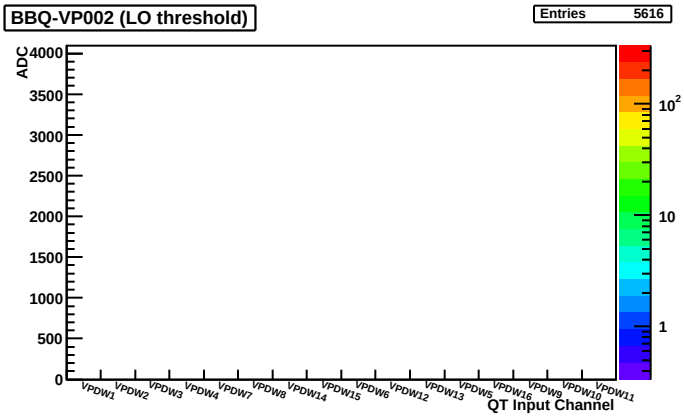

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5616
TAC
QT Input Channel

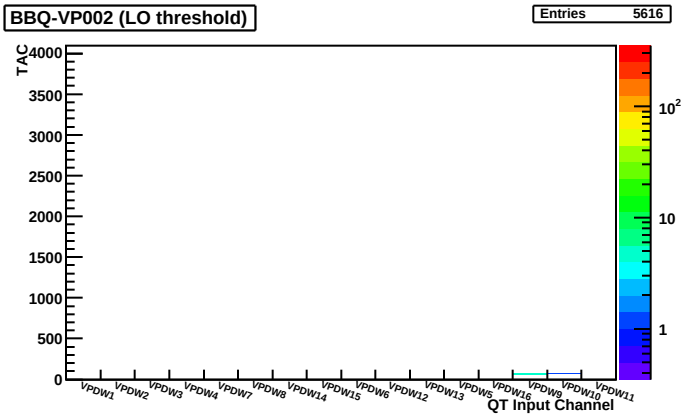

BBQ-ZD001
Entries 5616
ADC
QT Input Channel

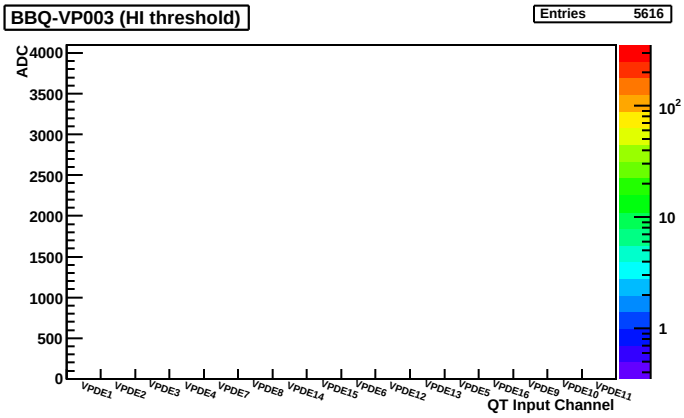

BBQ-ZD001
Entries 5616
TAC
QT Input Channel

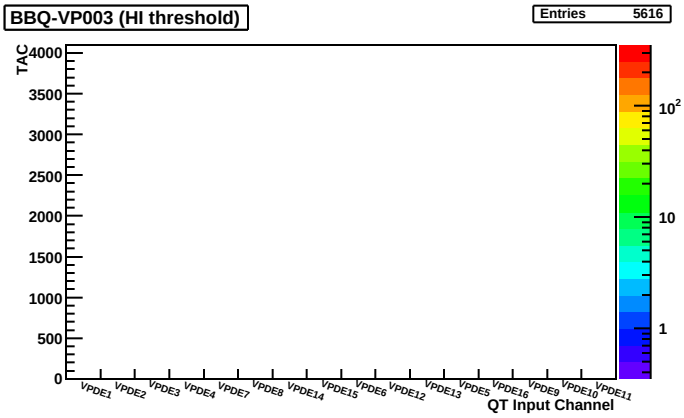

BBQ-VP001 (LO threshold)
Entries 5616
ADC
QT Input Channel

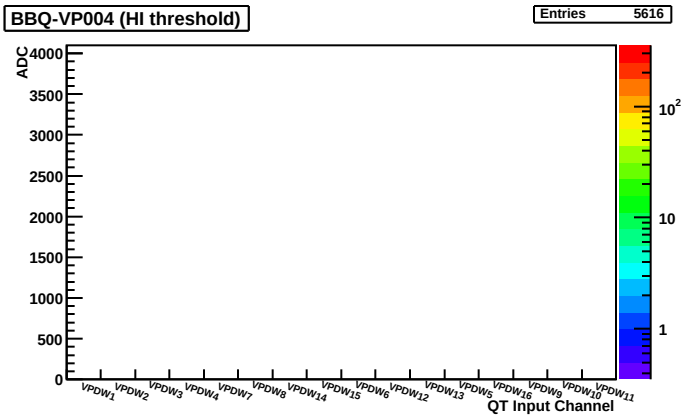

BBQ-VP001 (LO threshold)
Entries 5616
TAC
QT Input Channel

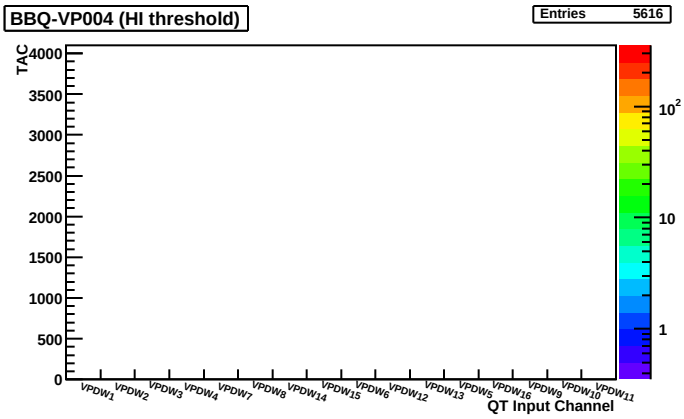

BBQ-VP002 (LO threshold)
Entries 5616
ADC
QT Input Channel

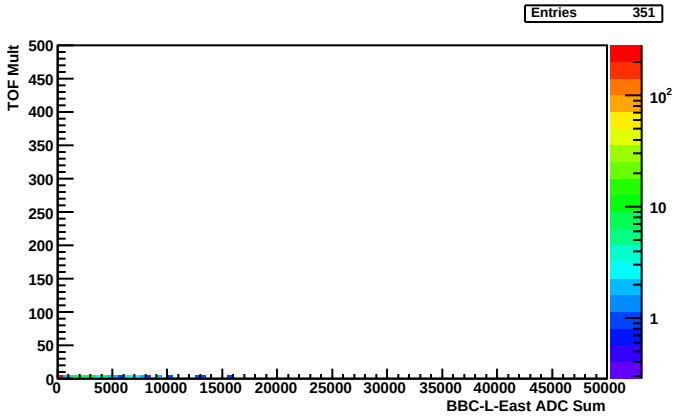

BBQ-VP002 (LO threshold)
Entries 5616
TAC
QT Input Channel

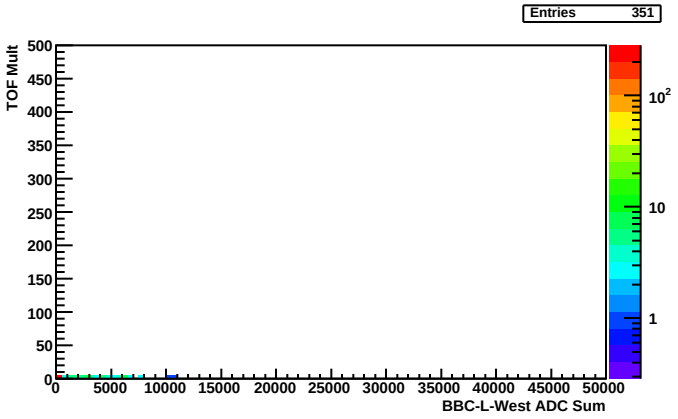

BBQ-VP003 (HI threshold)
Entries 5616
ADC
QT Input Channel

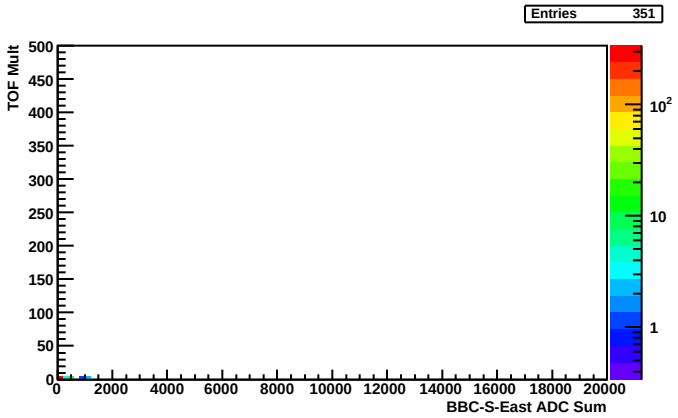

BBQ-VP003 (HI threshold)
Entries 5616
TAC
QT Input Channel

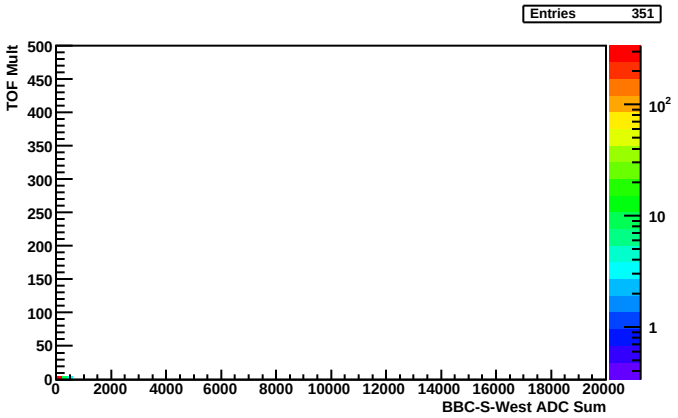

BBQ-VP004 (HI threshold)
Entries 5616
ADC
QT Input Channel

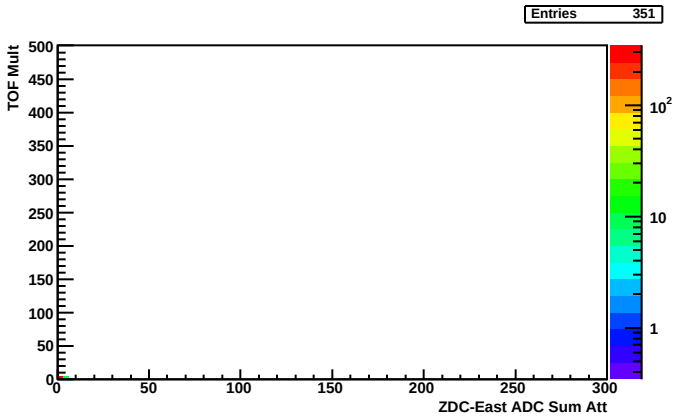

BBQ-VP004 (HI threshold)
Entries 5616
TAC
QT Input Channel

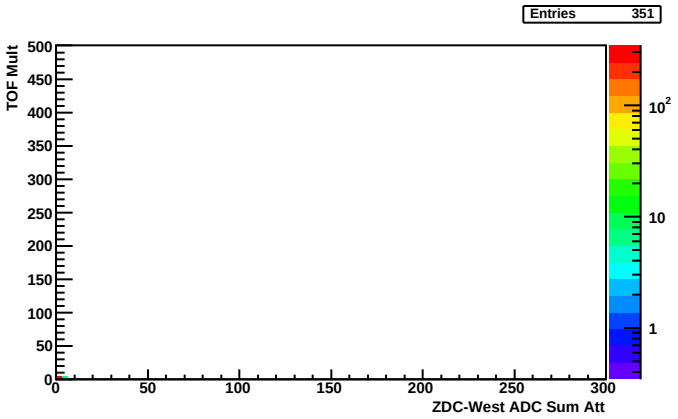

Entries 351
TOF Mult
BBC-L-East ADC Sum

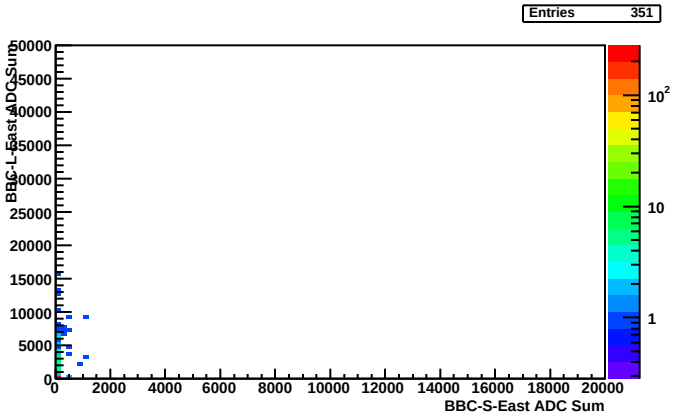

Entries 351
TOF Mult
BBC-L-West ADC Sum

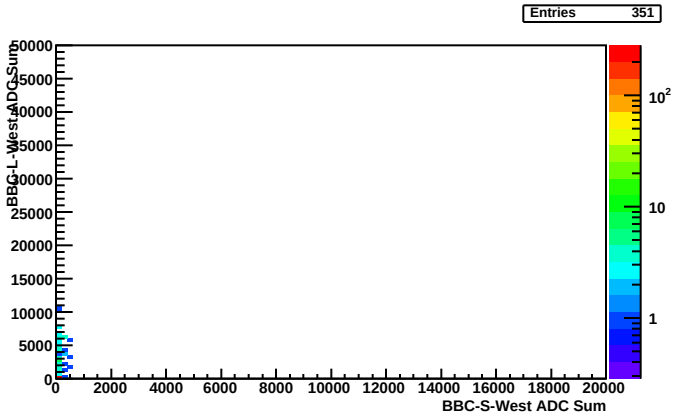

Entries 351
TOF Mult
BBC-S-East ADC Sum

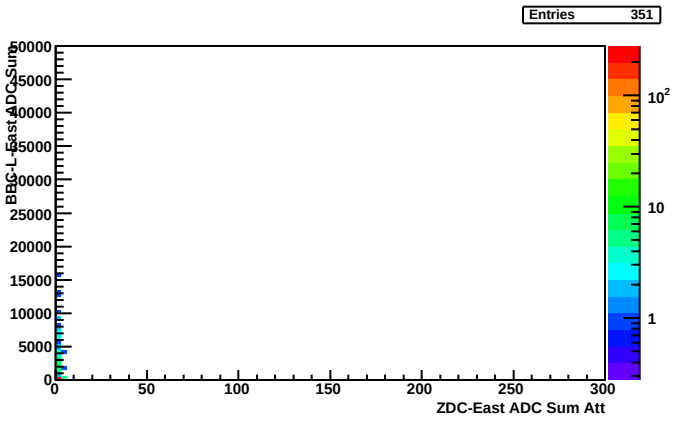

Entries 351
TOF Mult
BBC-S-West ADC Sum

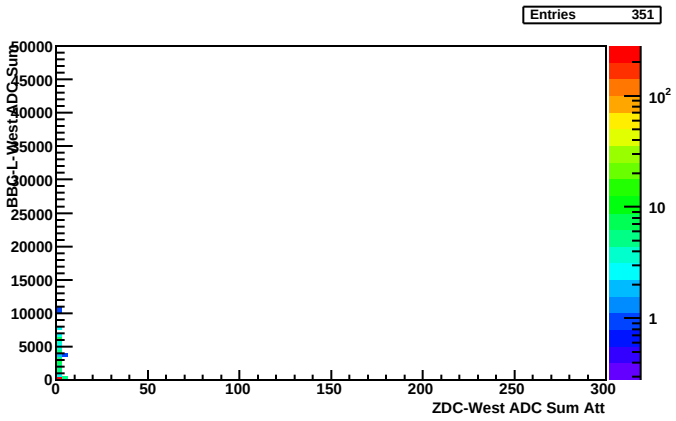

Entries 351
TOF Mult
ZDC-East ADC Sum Att

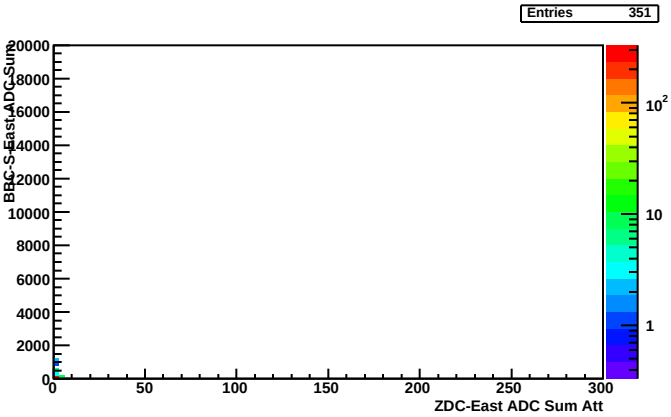

Entries 351
TOF Mult
ZDC-West ADC Sum Att

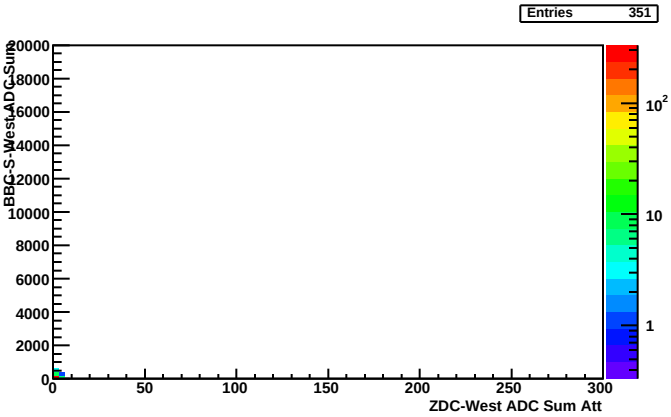

Entries 351
BBC-L-East ADC Sum
BBC-S-East ADC Sum

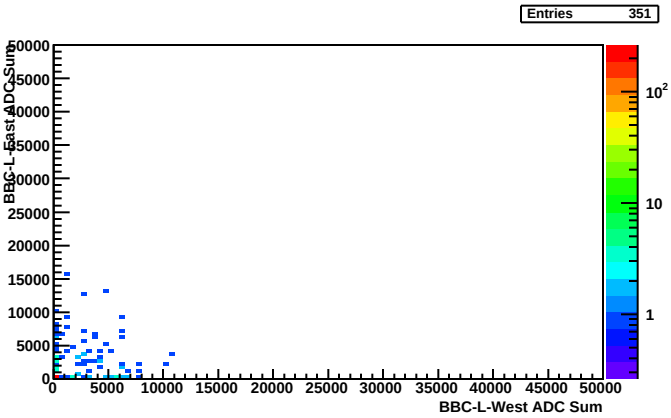

Entries 351
BBC-L-West ADC Sum
BBC-S-West ADC Sum

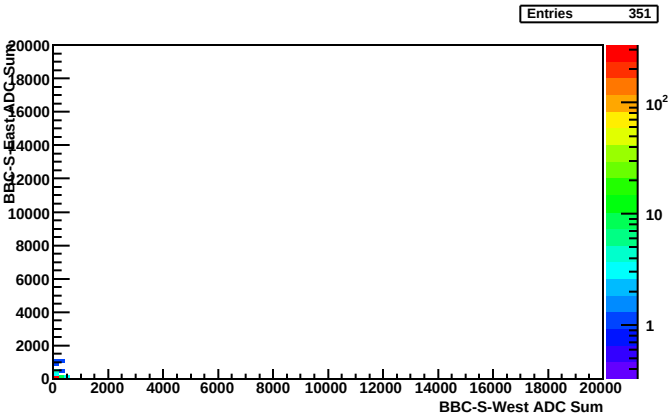

Entries 351
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

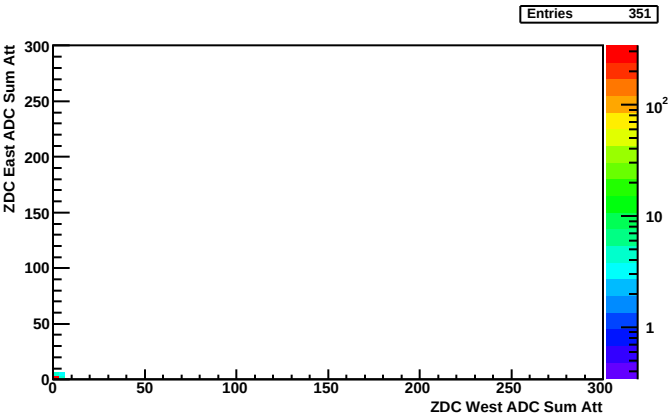

Entries 351
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

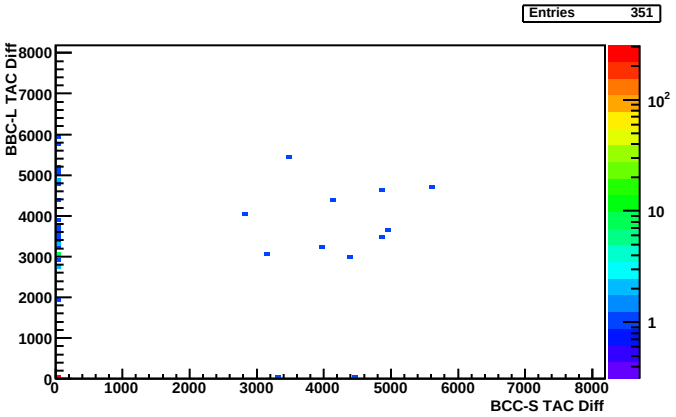

Entries 351
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

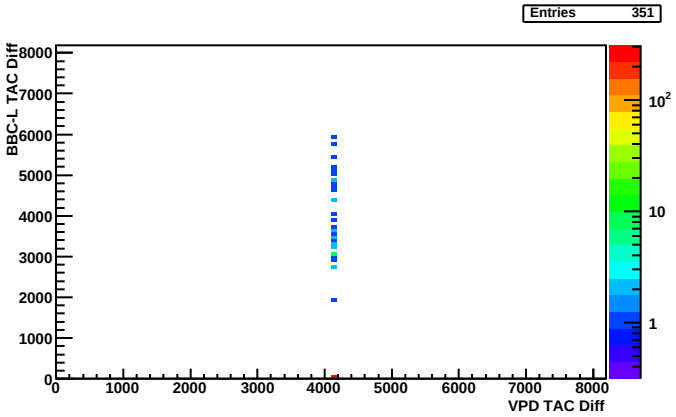

Entries 351
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

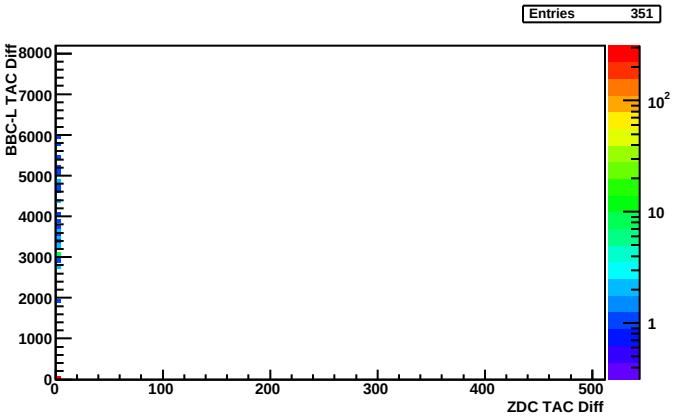

Entries 351
BBC-L-East ADC Sum
BBC-L-West ADC Sum

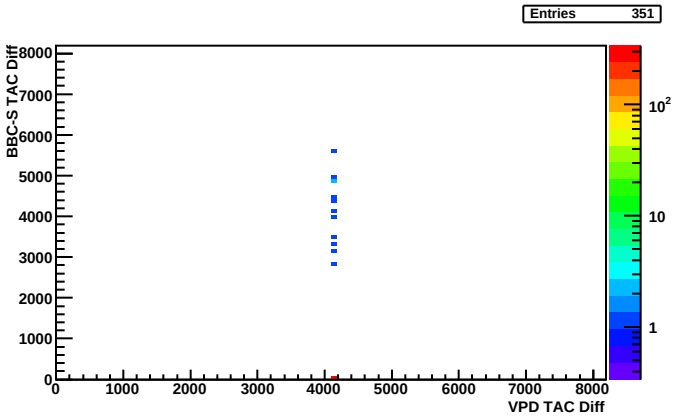

Entries 351
BBC-S-East ADC Sum
BBC-S-West ADC Sum

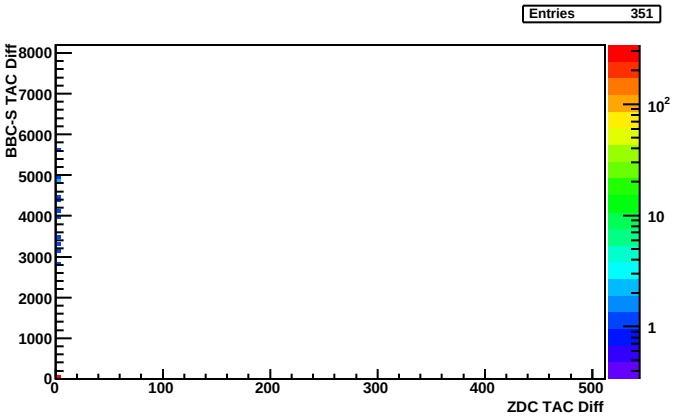

Entries 351
ZDC East ADC Sum Att
ZDC West ADC Sum Att

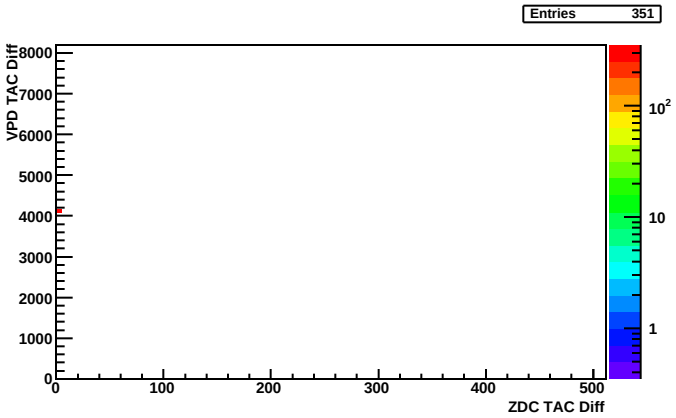

Entries 351
BBC-L TAC Diff
BCC-S TAC Diff

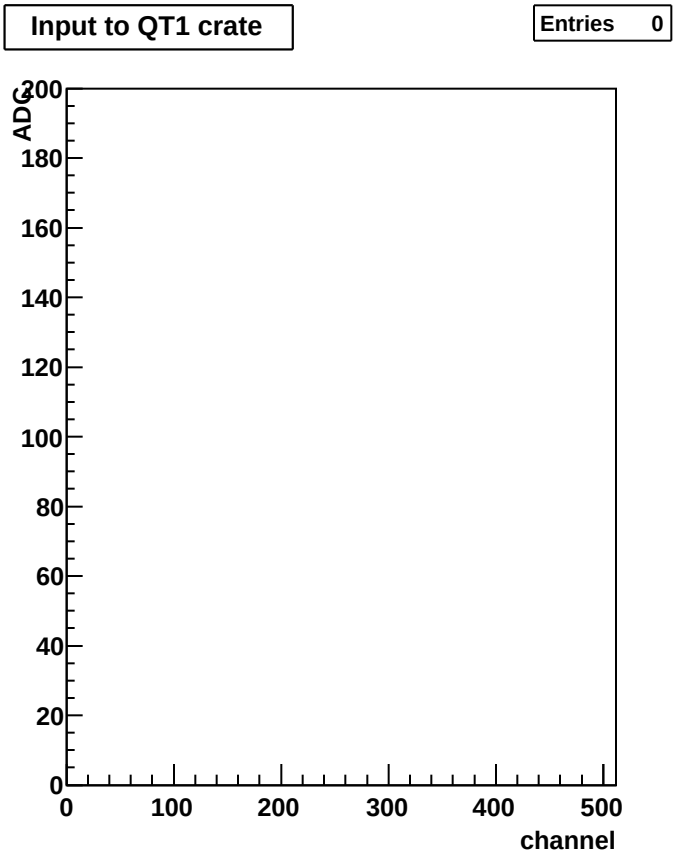

Entries 351
BBC-L TAC Diff
VPD TAC Diff

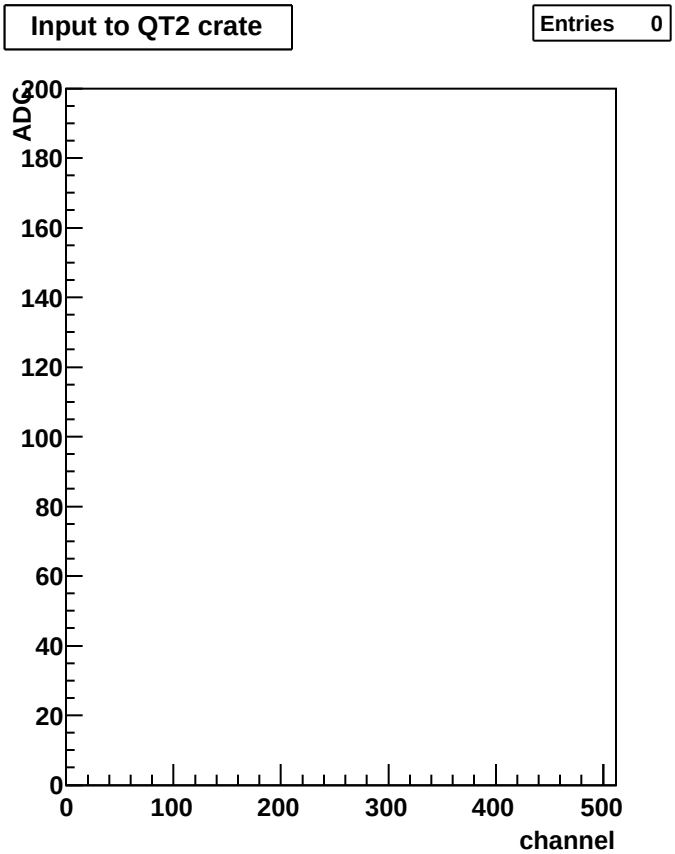

Entries 351
BBC-L TAC Diff
ZDC TAC Diff

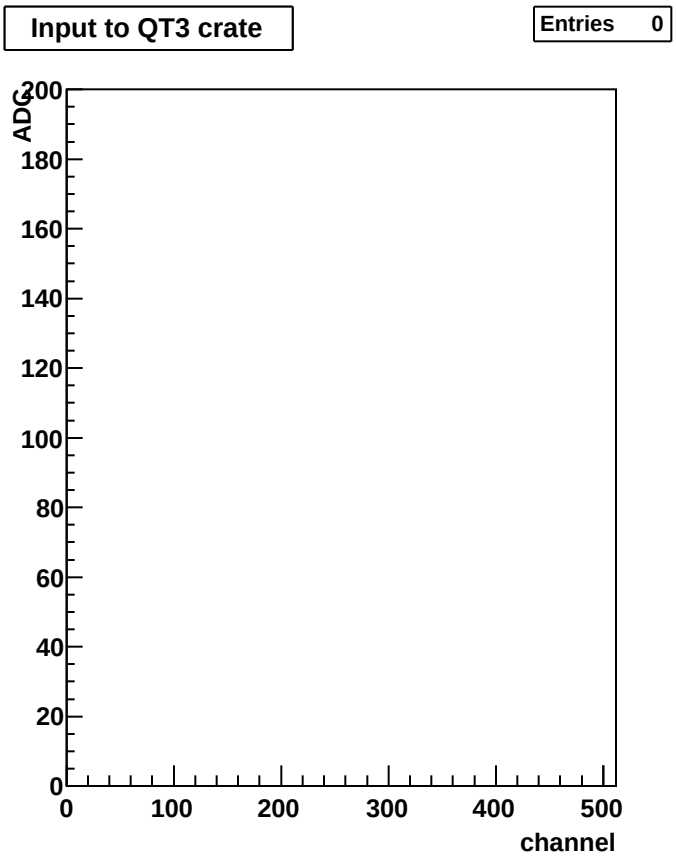

Entries 351
BBC-S TAC Diff
VPD TAC Diff

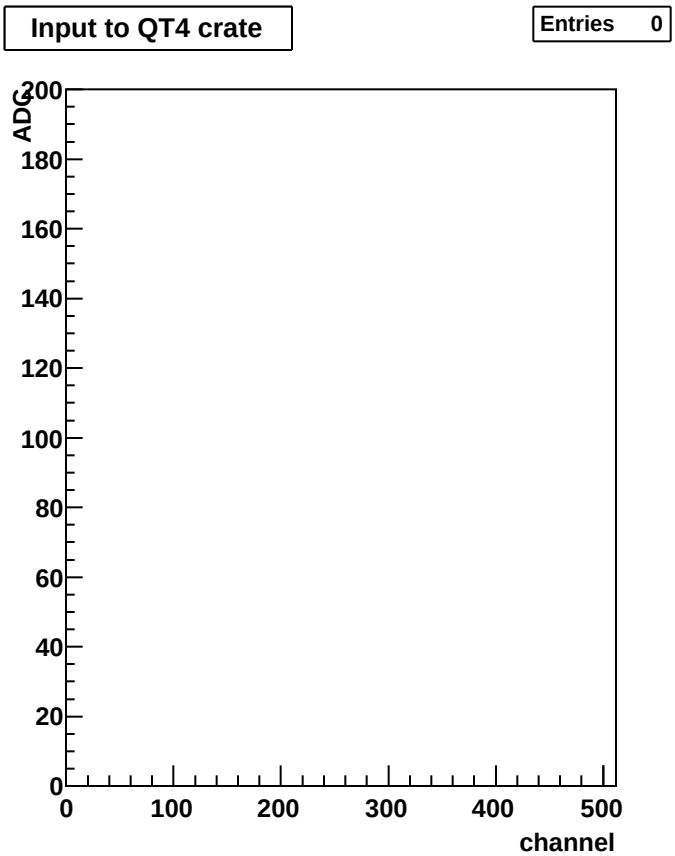

Entries 351
BBC-S TAC Diff
ZDC TAC Diff

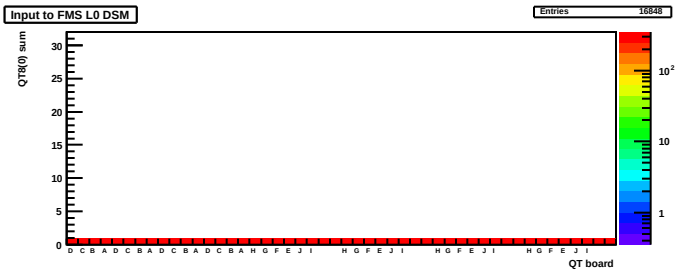

Entries 351
VPD TAC Diff
ZDC TAC Diff

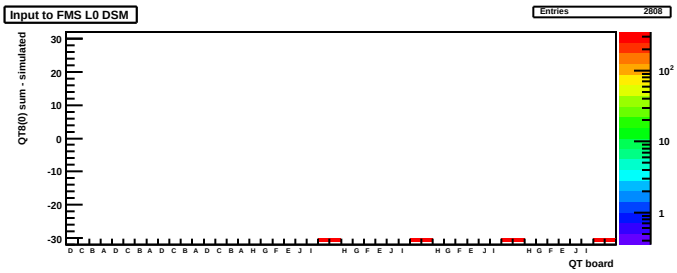

Input to QT1 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

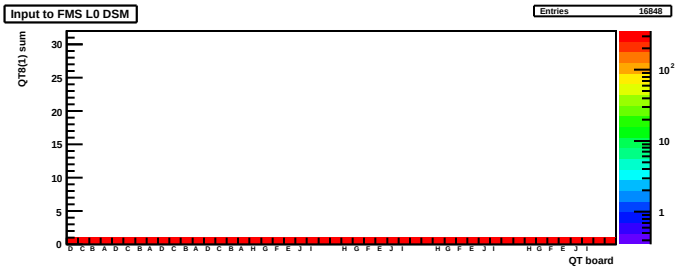

Input to QT2 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

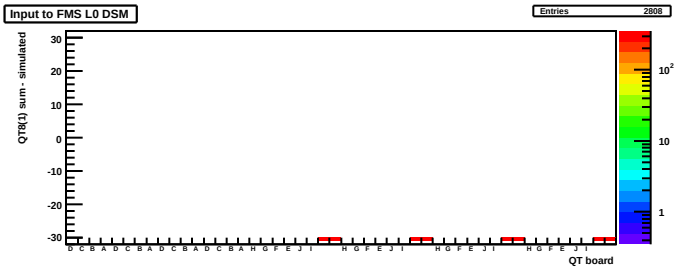

Input to QT3 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

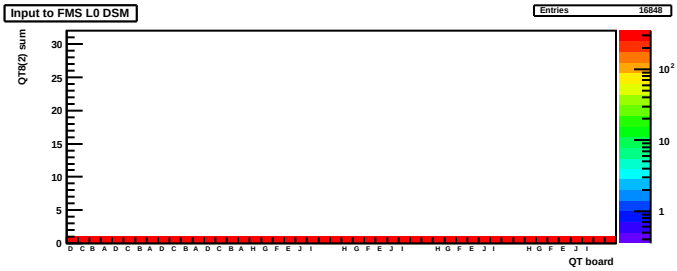

Input to QT4 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

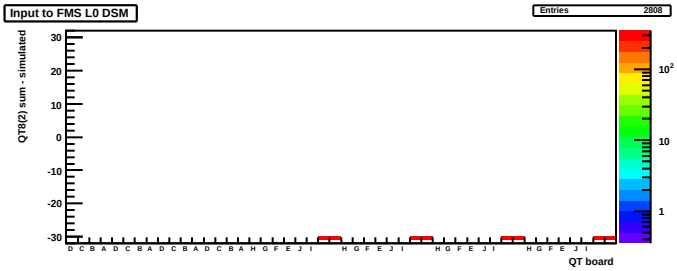

Input to FMS L0 DSM
Entries 16848
QT8(0) sum
QT board

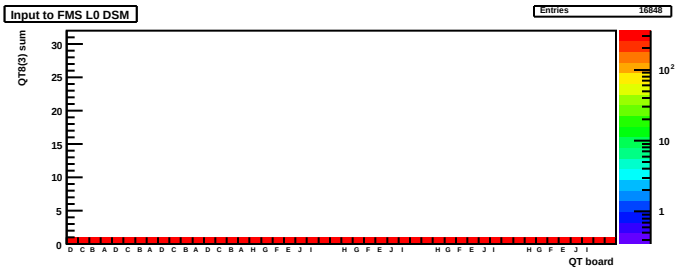

Input to FMS L0 DSM
Entries 2808
QT8(0) sum - simulated
QT board

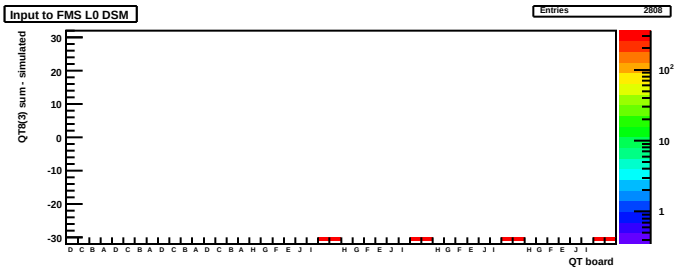

Input to FMS L0 DSM
Entries 16848
QT8(1) sum
QT board

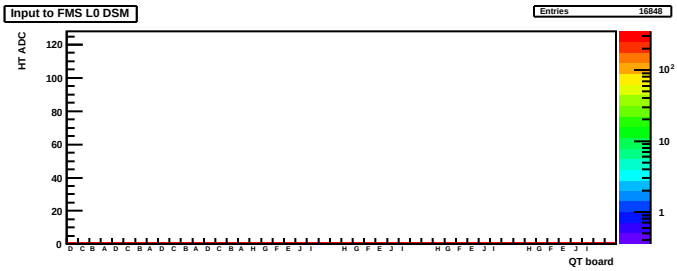

Input to FMS L0 DSM
Entries 2808
QT8(1) sum - simulated
QT board

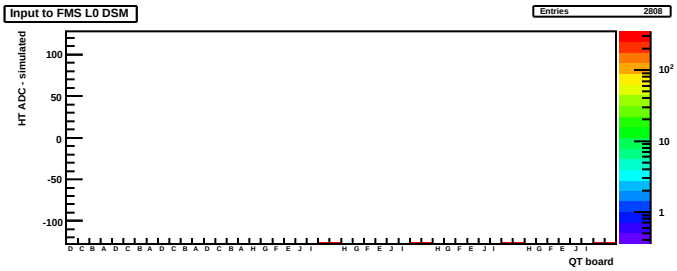

Input to FMS L0 DSM
Entries 16848
QT8(2) sum
QT board

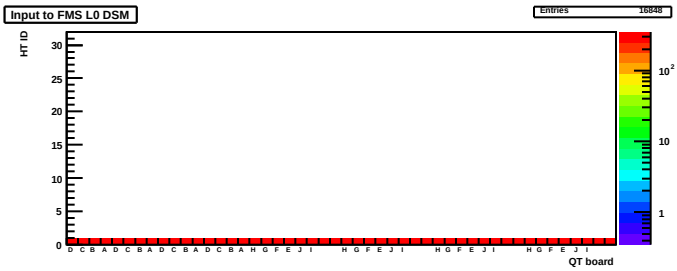

Input to FMS L0 DSM
Entries 2808
QT8(2) sum - simulated
QT board

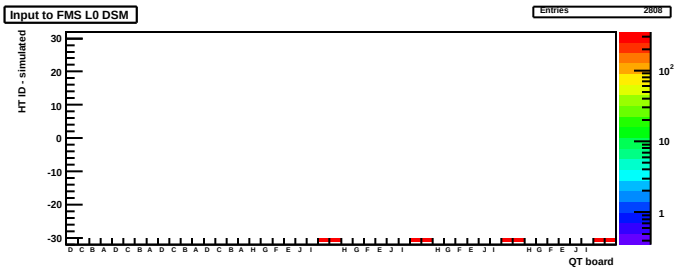

Input to FMS L0 DSM
Entries 16848
QT8(3) sum
QT board

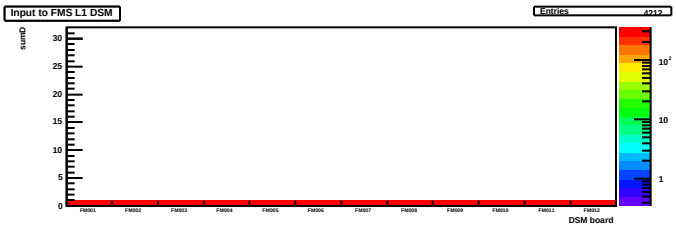

Input to FMS L0 DSM
Entries 2808
QT8(3) sum - simulated
QT board

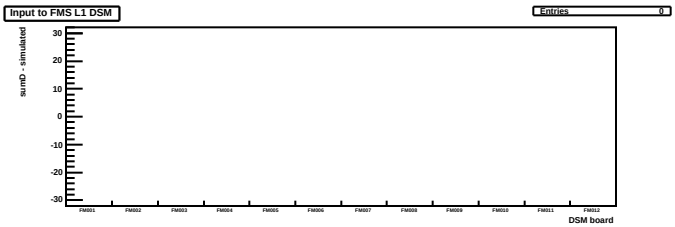

Input to FMS L0 DSM
Entries 16848
HT ADC
QT board

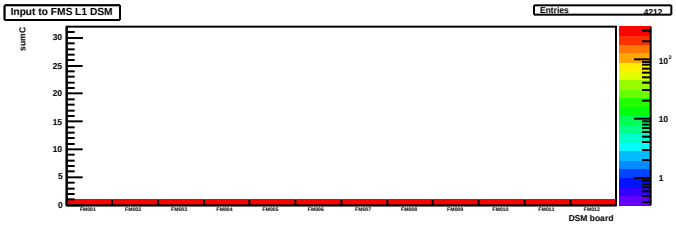

Input to FMS L0 DSM
Entries 2808
HT ADC - simulated
QT board

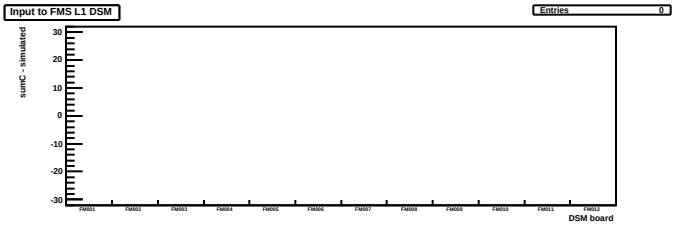

Input to FMS L0 DSM
Entries 16848
HT ID
QT board

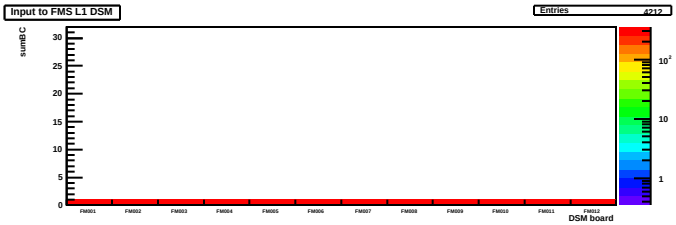

Input to FMS L0 DSM
Entries 2808
HT ID - simulated
QT board

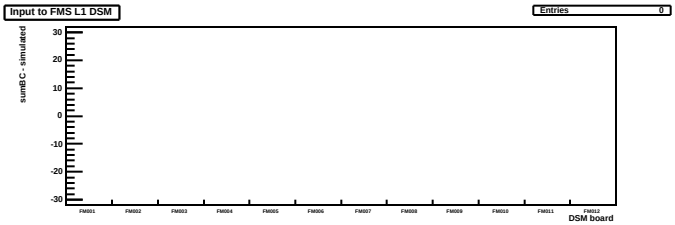

Input to FMS L1 DSM
Entries 4212
sumD
DSM board

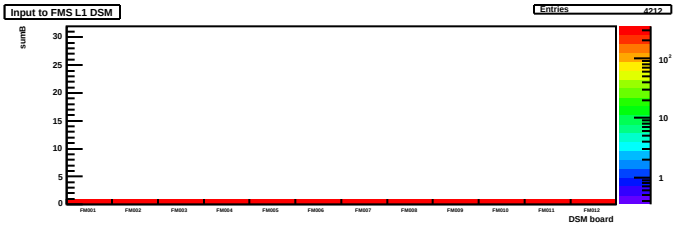

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

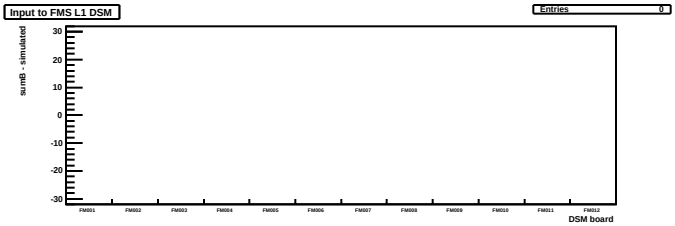

Input to FMS L1 DSM
Entries 4212
sumC
DSM board

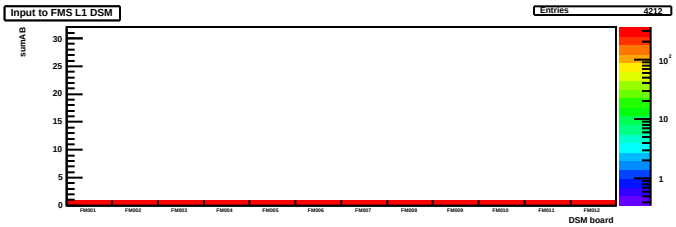

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

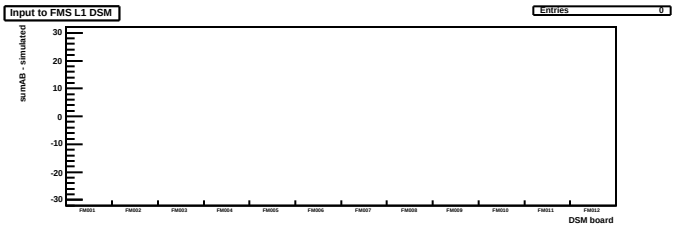

Input to FMS L1 DSM
Entries 4212
sumBC
DSM board

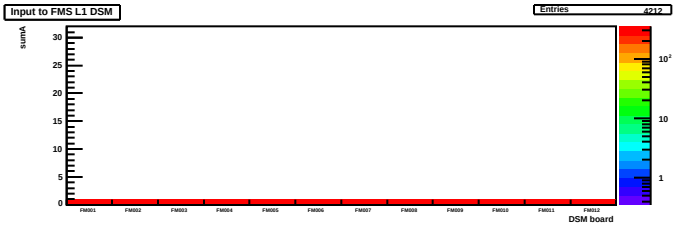

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

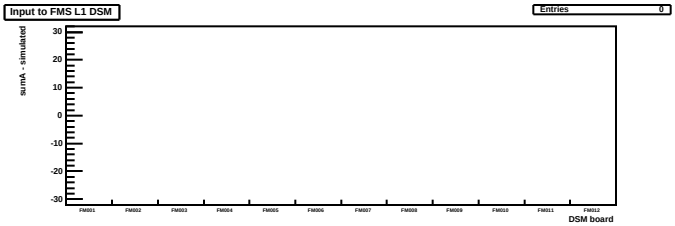

Input to FMS L1 DSM
Entries 4212
sumB
DSM board

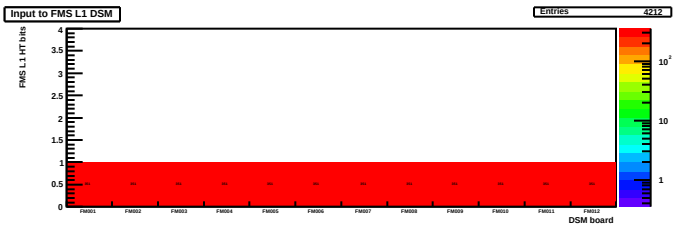

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

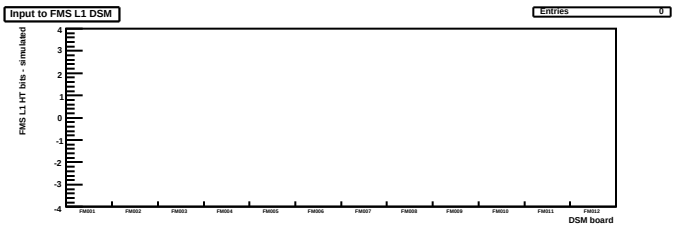

Input to FMS L1 DSM
Entries 4212
sumAB
DSM board

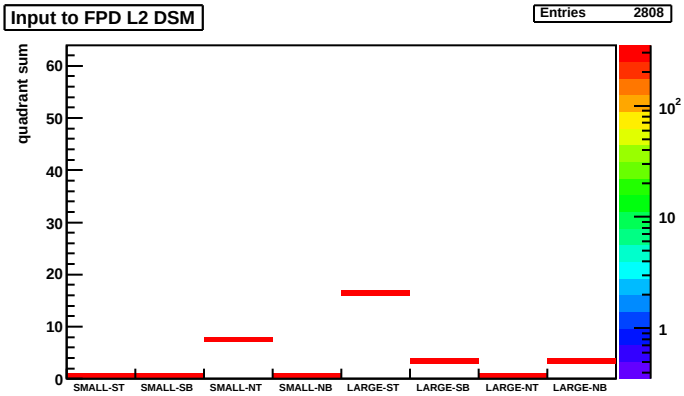

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

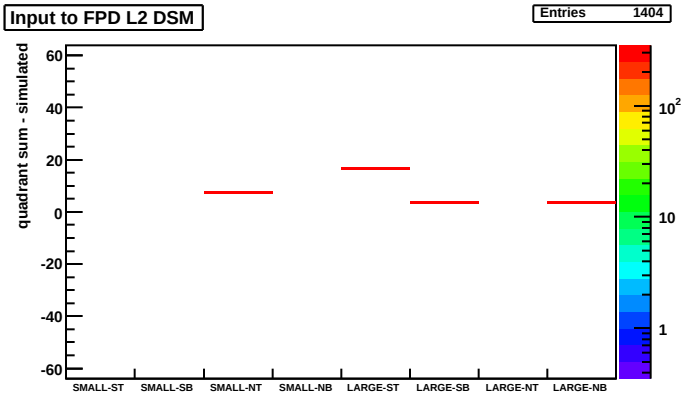

Input to FMS L1 DSM
Entries 4212
sumA
DSM board

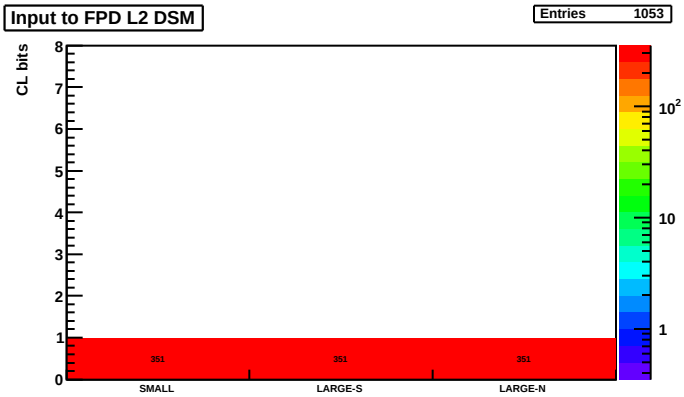

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

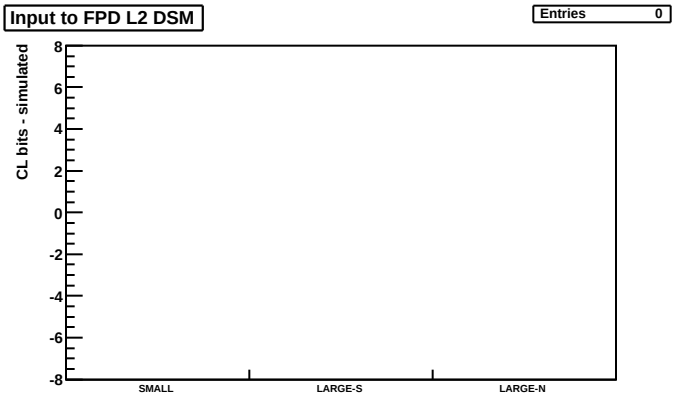

Input to FMS L1 DSM
Entries 4212
FMS L1 HT bits
DSM board

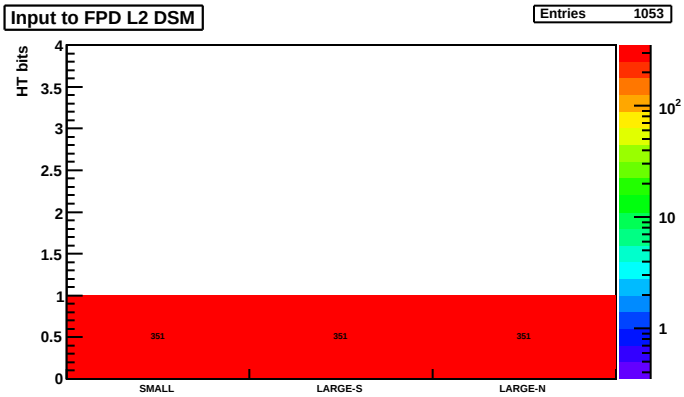

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

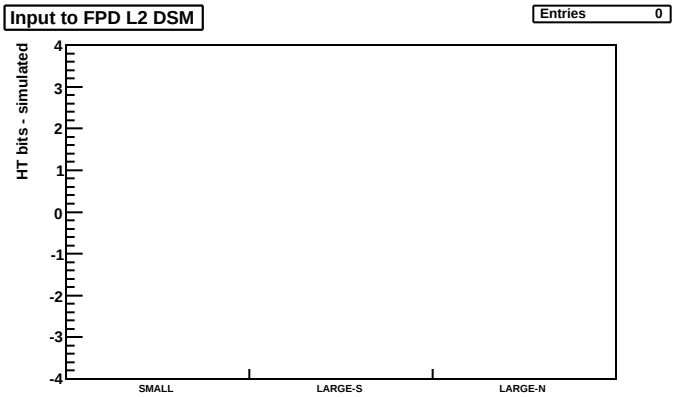

Input to FPD L2 DSM
Entries 2808
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

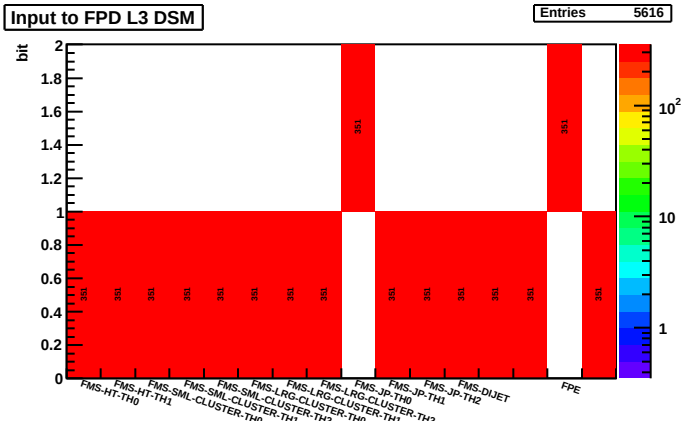

Input to FPD L2 DSM
Entries 1404
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

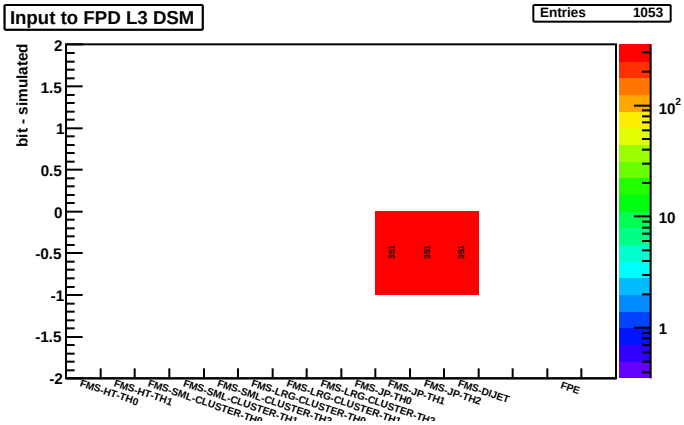

Input to FPD L2 DSM
Entries 1053
CL bits
351
351
351
SMALL
LARGE-S
LARGE-N

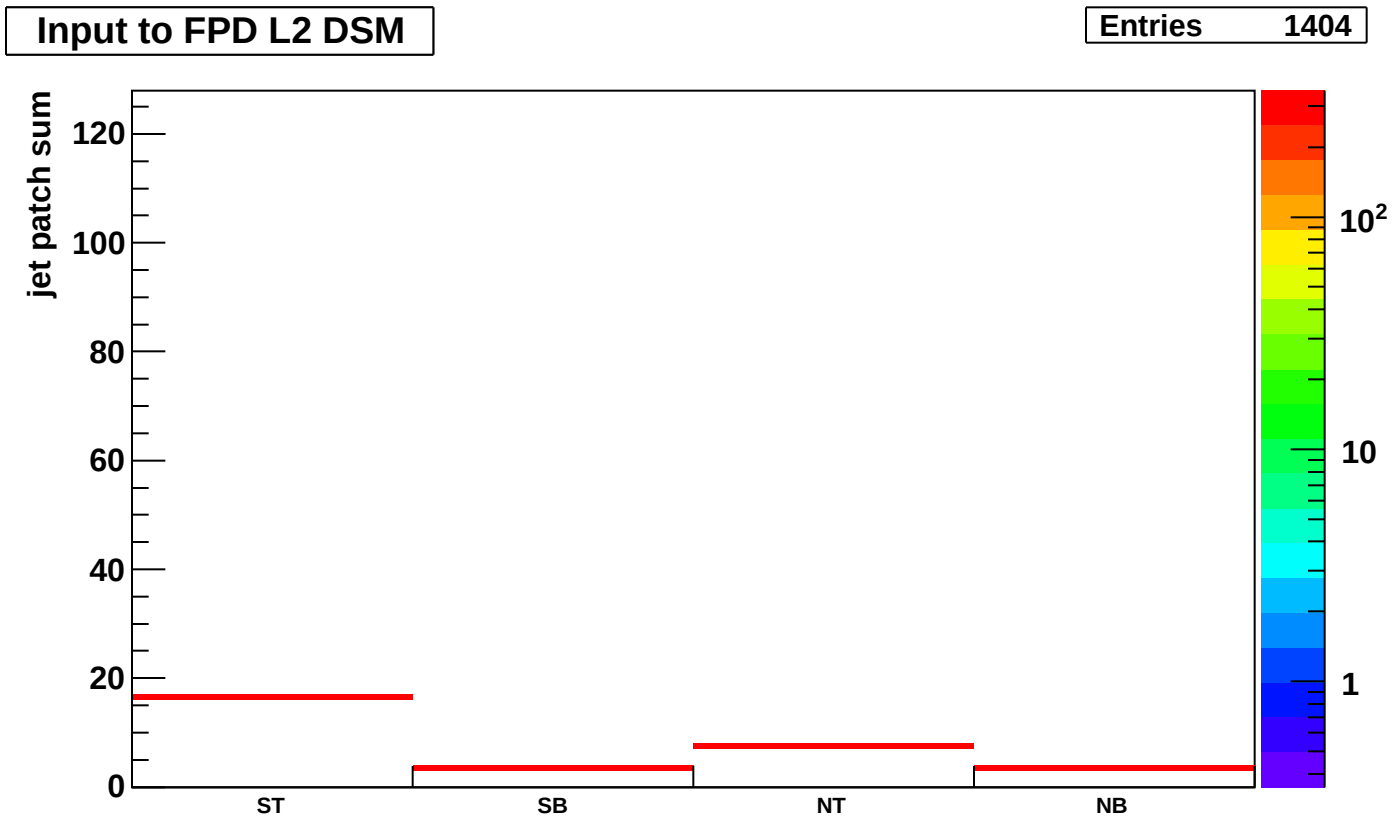

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

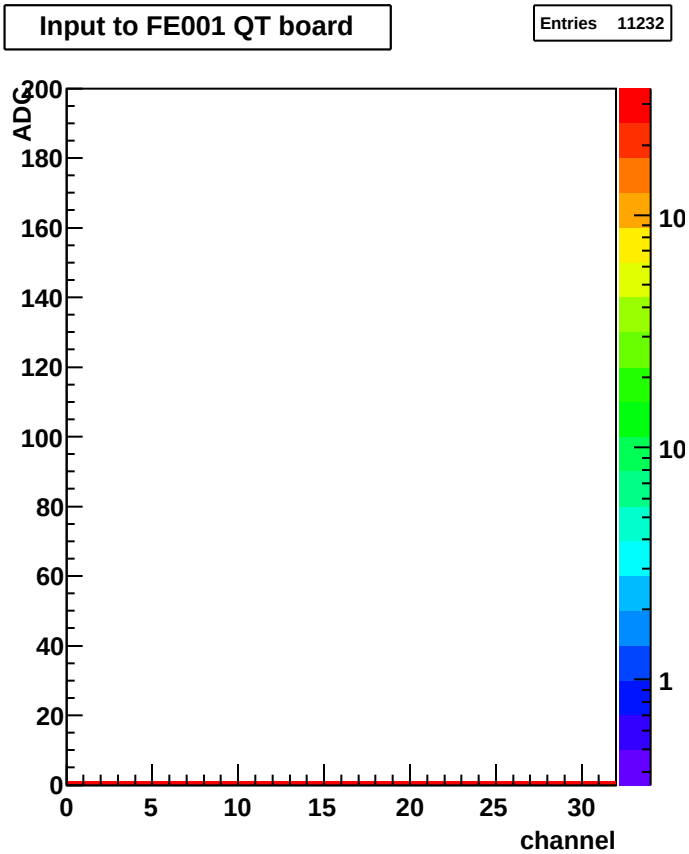

Input to FPD L2 DSM
Entries 1053
HT bits
351
351
351
SMALL
LARGE-S
LARGE-N

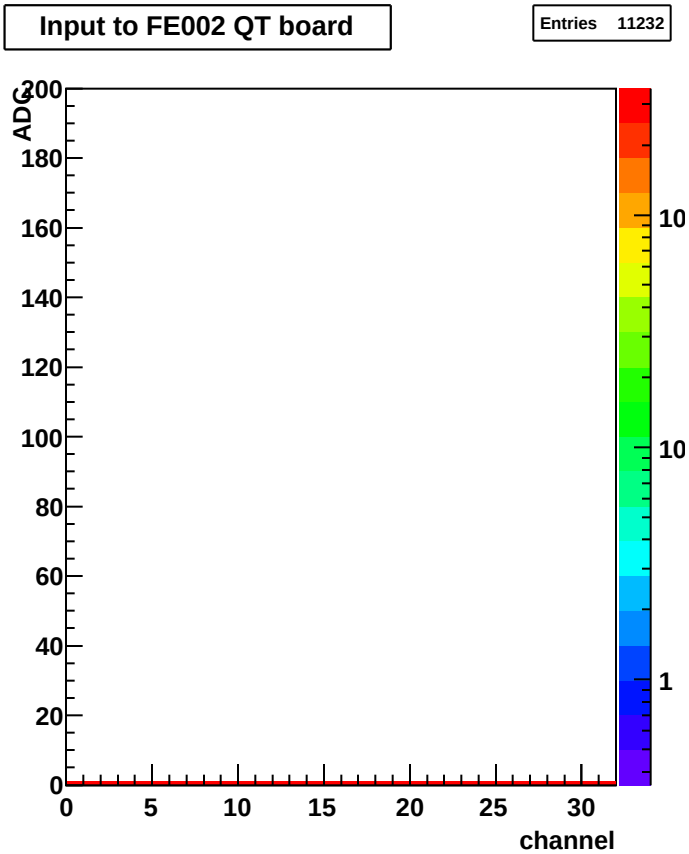

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

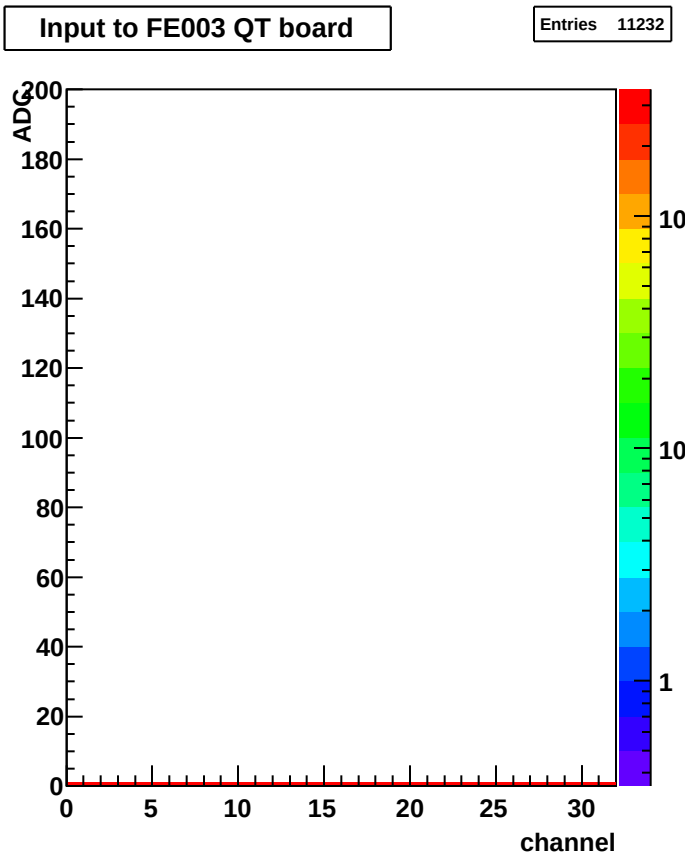

Input to FPD L3 DSM
Entries 5616
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

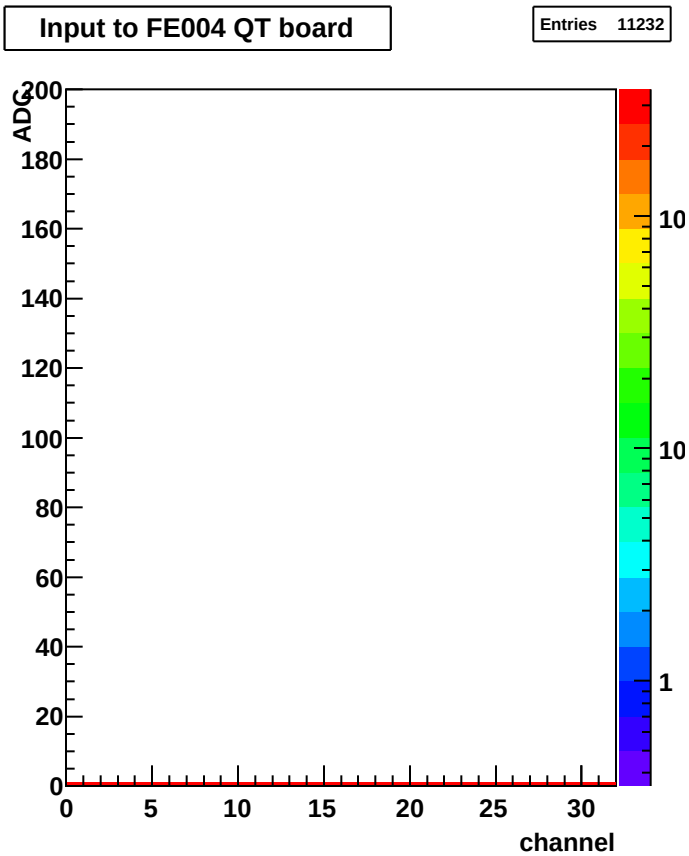

Input to FPD L3 DSM
Entries 1053
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

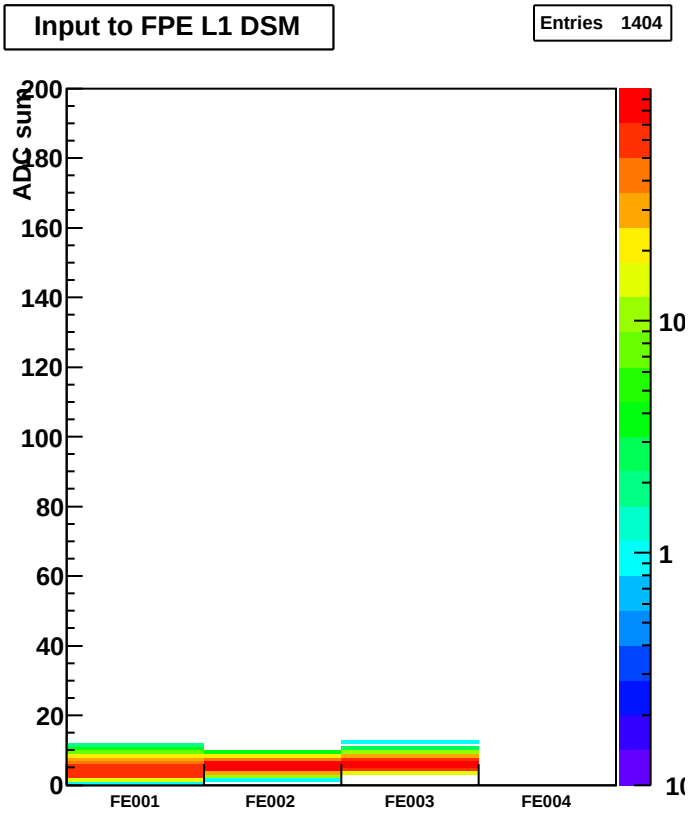

Input to FPD L2 DSM
Entries 1404
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^2
10
1

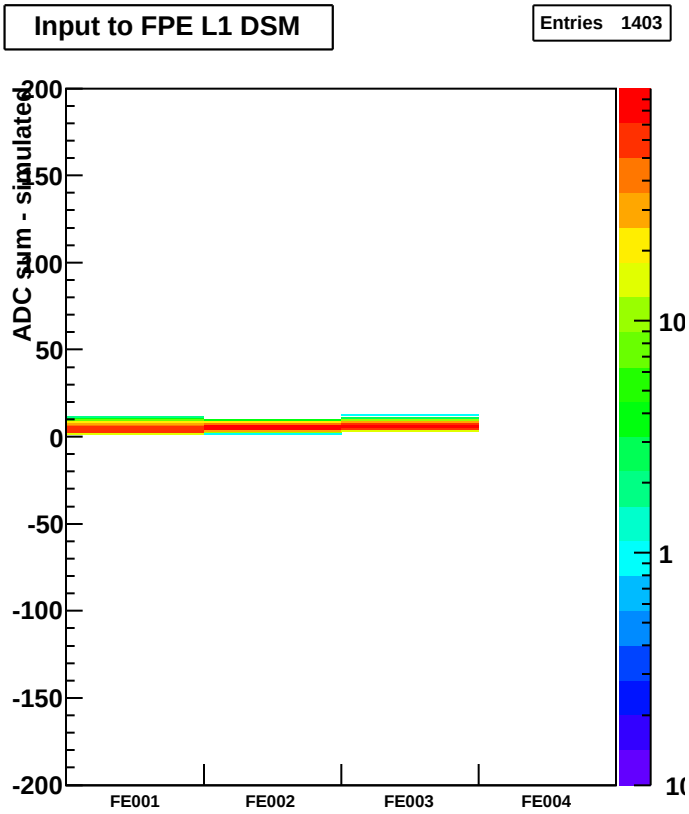

Input to FE001 QT board
Entries 11232
ADC
channel

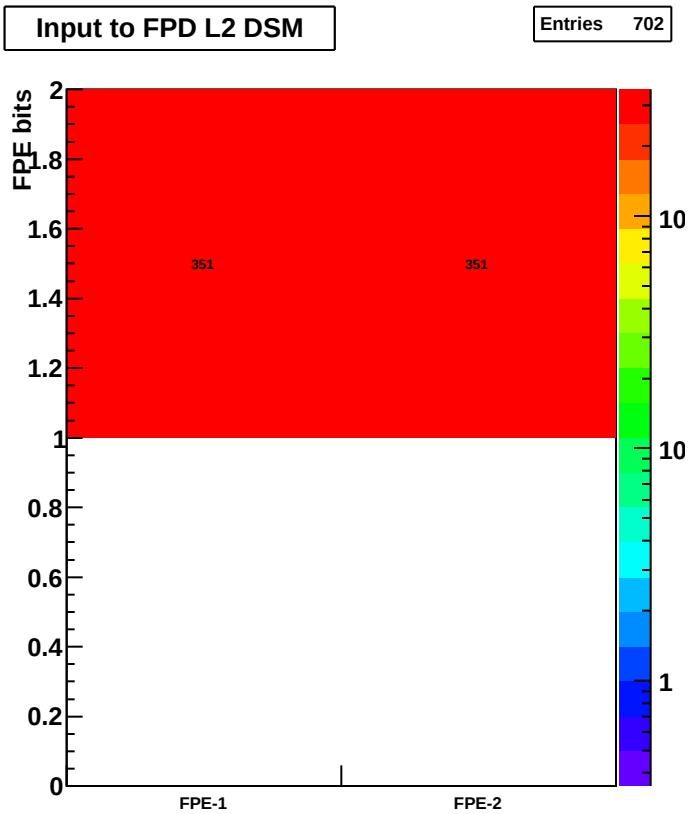

Input to FE002 QT board
Entries 11232
ADC
channel

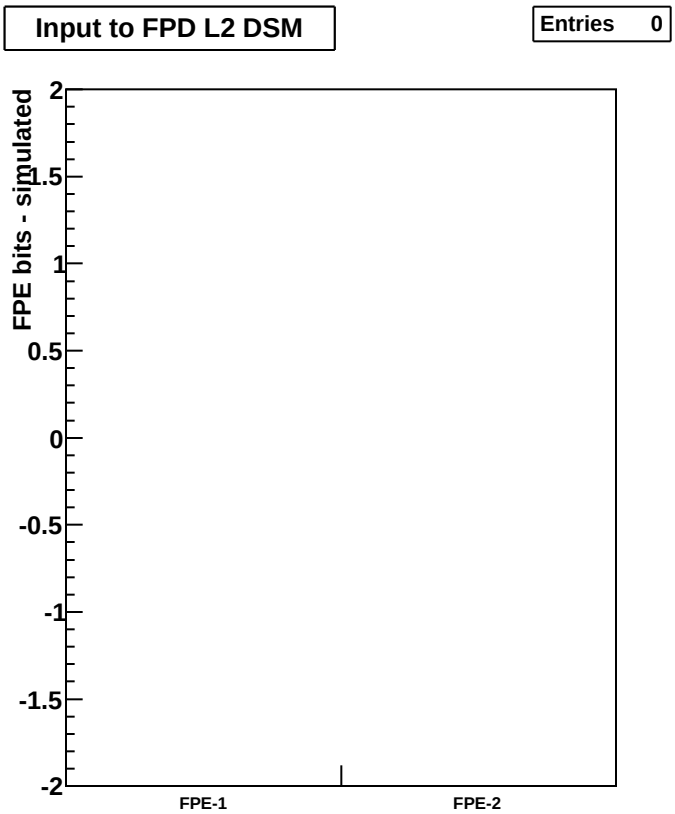

Input to FE003 QT board
Entries 11232
ADC
channel


Input to FE004 QT board
Entries 11232
ADC
channel


Input to FPE L1 DSM
Entries 1404
ADC sum
200
180
160
140
120
100
80
60
40
20
0
FE001
FE002
FE003
FE004
10
1


Input to FPE L1 DSM
Entries 1403
ADC sum - simulated
200
150
100
50
0
-50
-100
-150
-200
FE001
FE002
FE003
FE004
10
1


Input to FPD L2 DSM
Entries 702
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
351
351
FPE-1
FPE-2
10
1


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