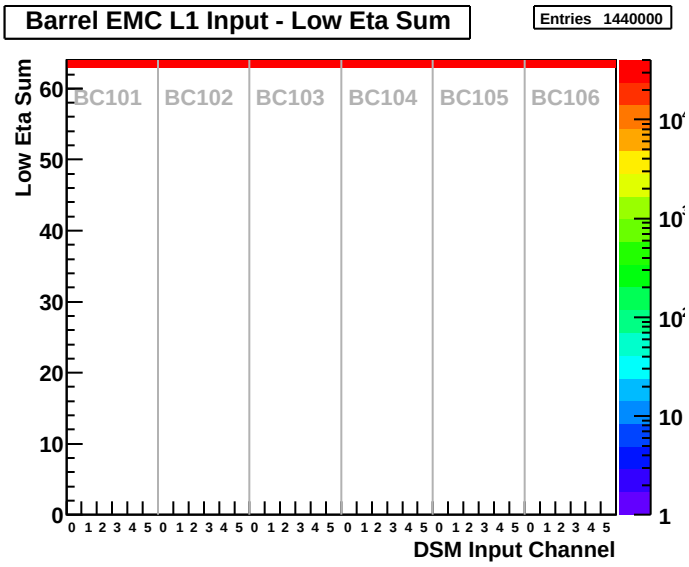
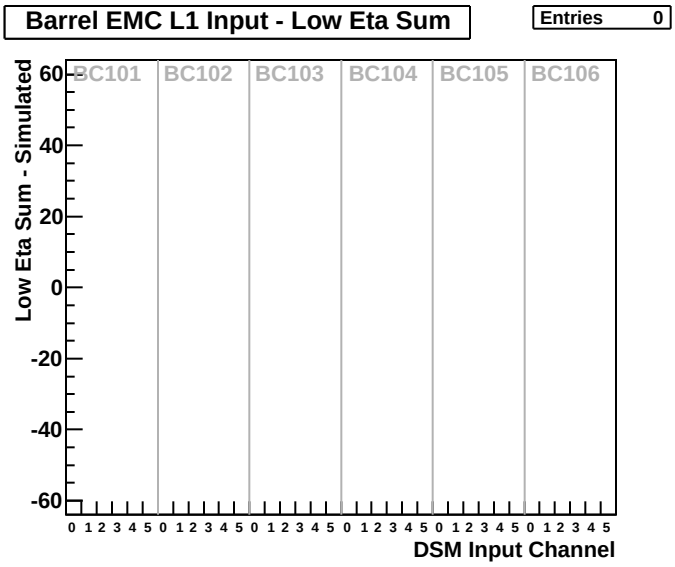
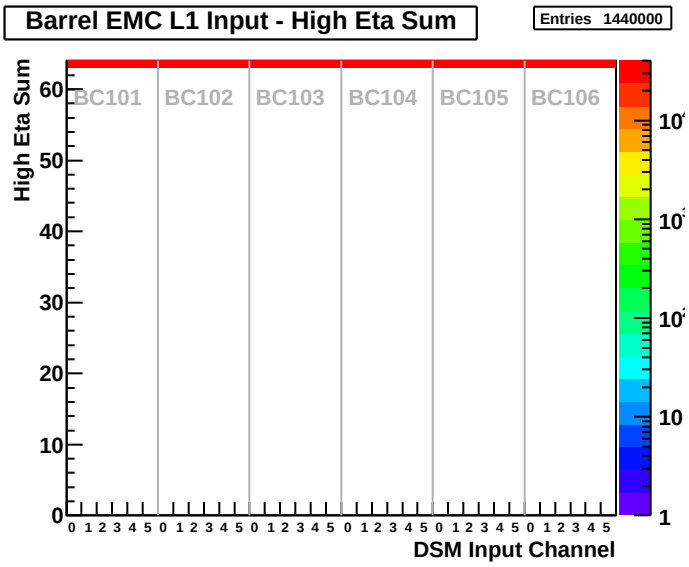
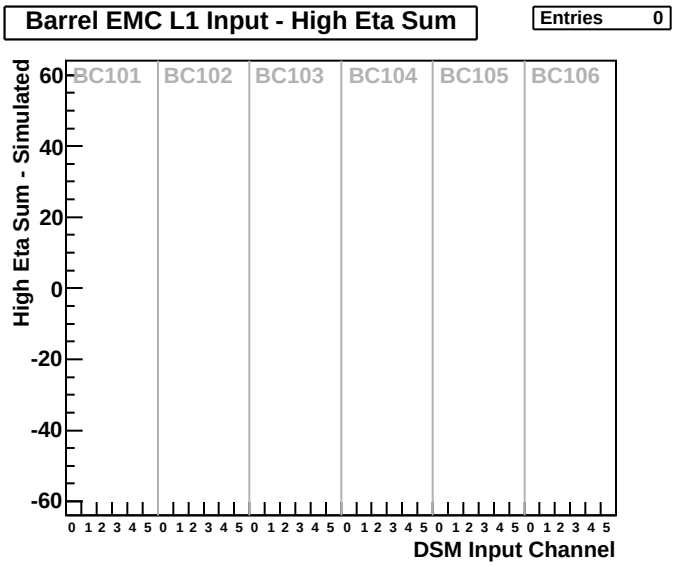
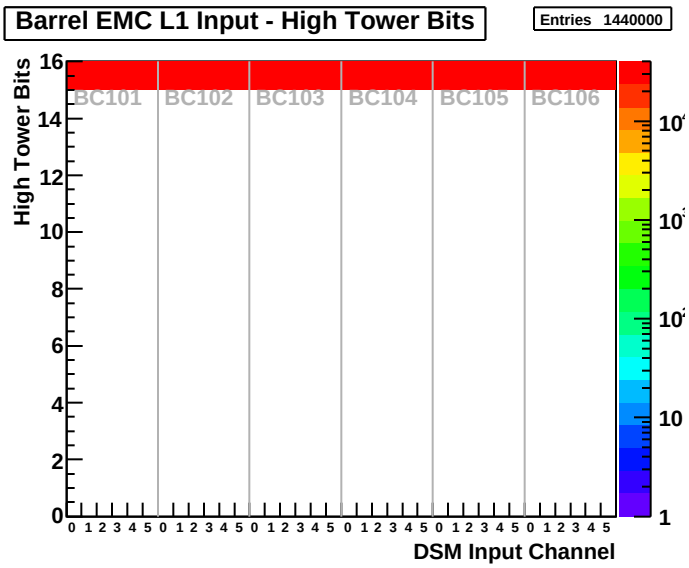
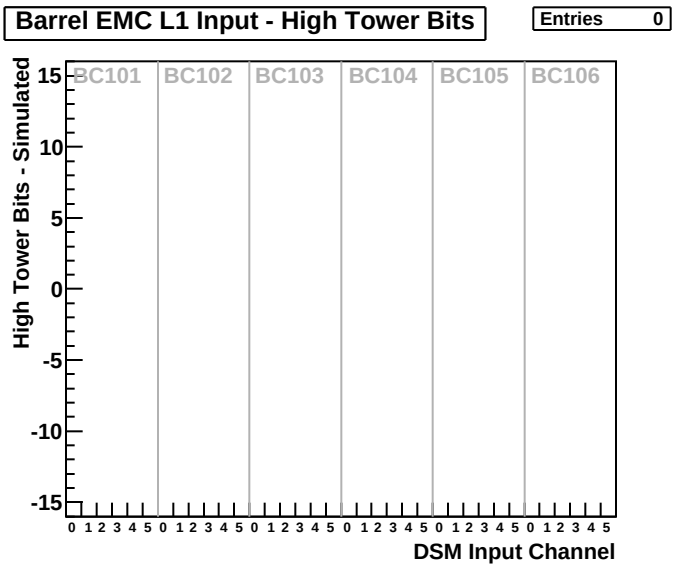

Barrel EMC L1 Input - Low Eta Sum
Entries 1440000
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

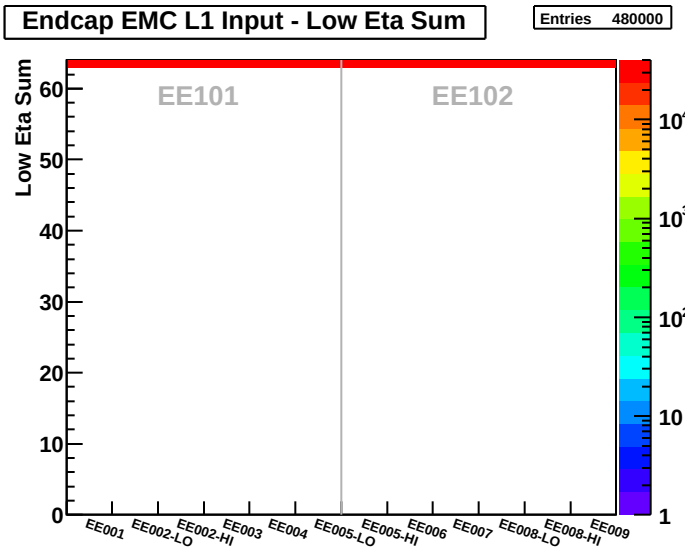

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

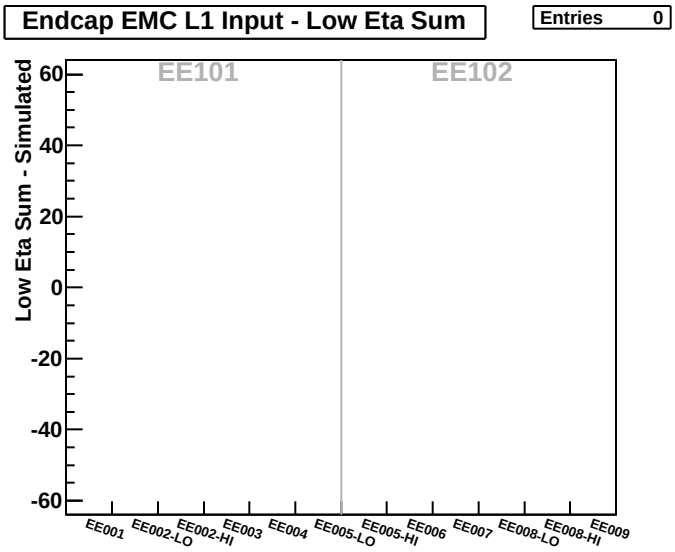

Barrel EMC L1 Input - High Eta Sum
Entries 1440000
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

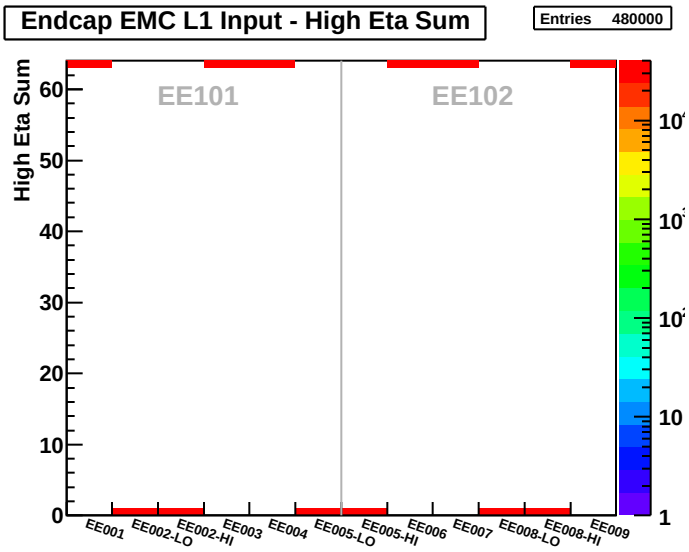

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

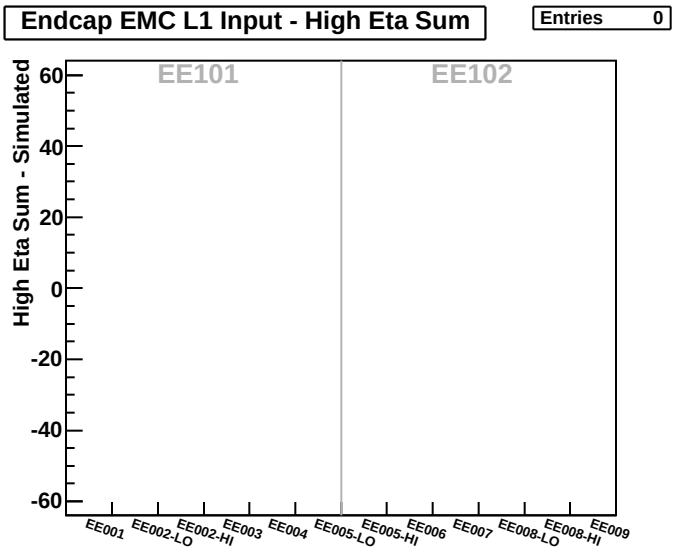

Barrel EMC L1 Input - High Tower Bits
Entries 1440000
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

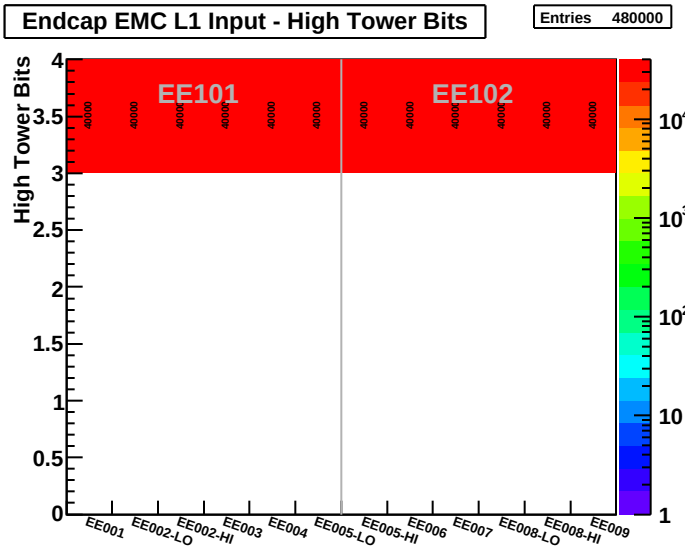

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

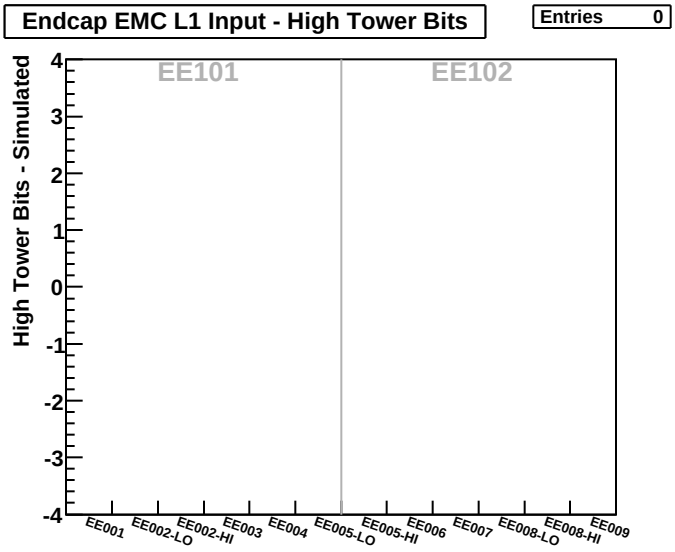

Endcap EMC L1 Input - Low Eta Sum
Entries 480000
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

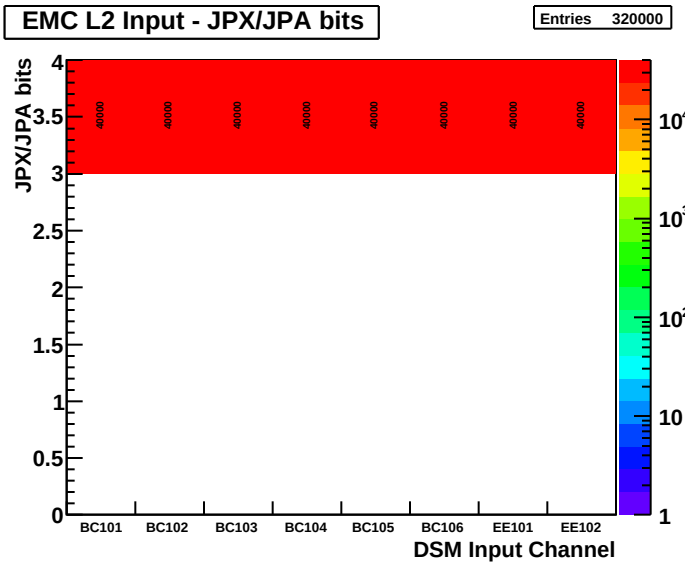

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

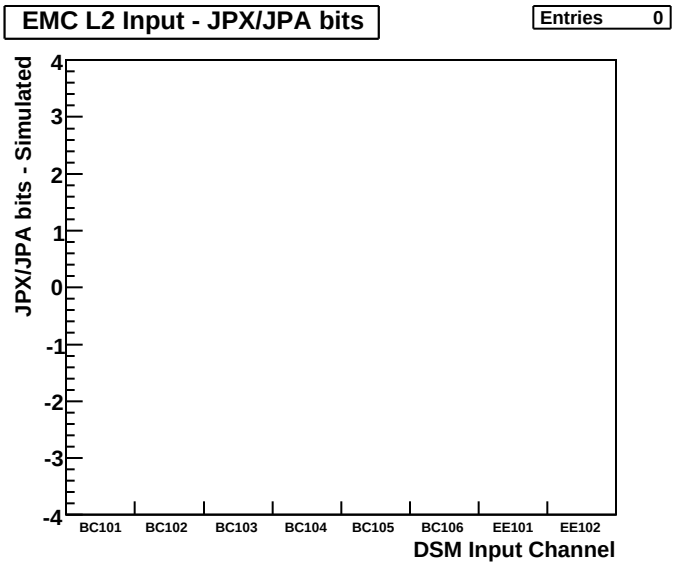

Endcap EMC L1 Input - High Eta Sum
Entries 480000
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

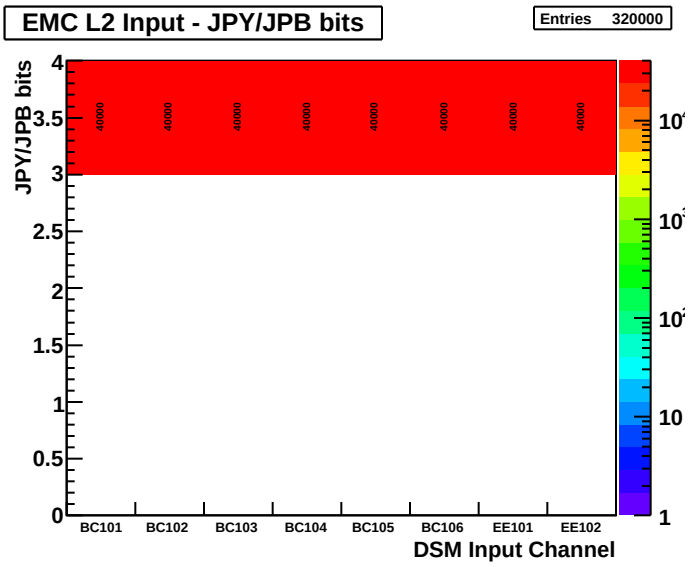

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

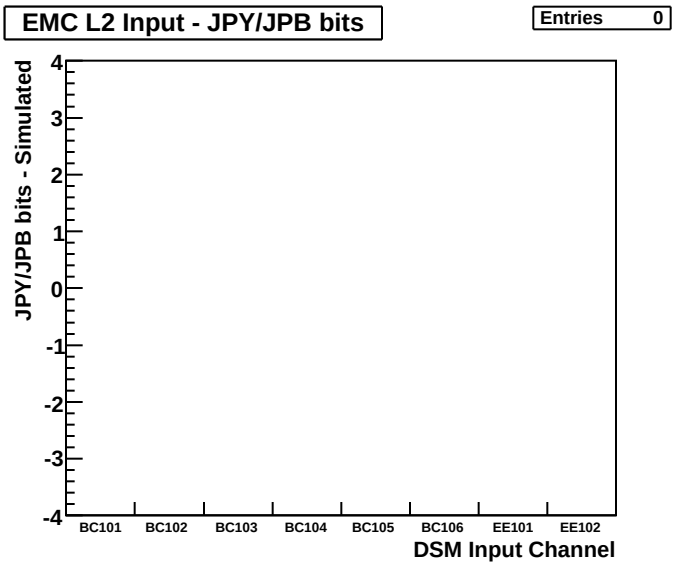

Endcap EMC L1 Input - High Tower Bits
Entries 480000
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

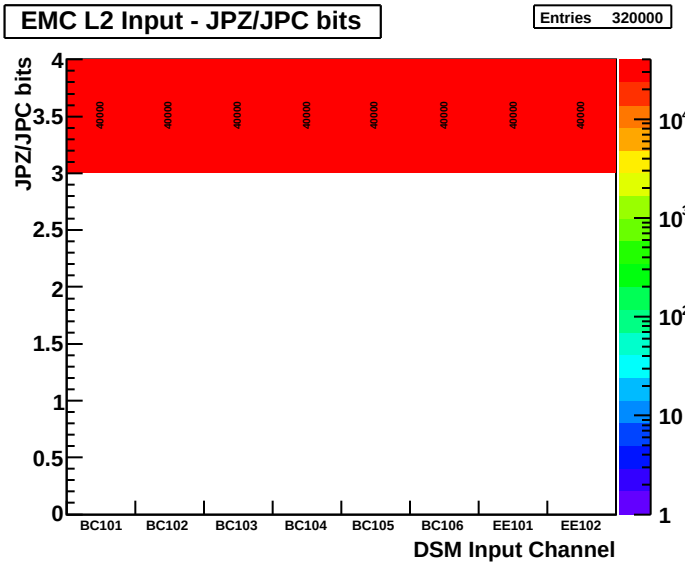

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

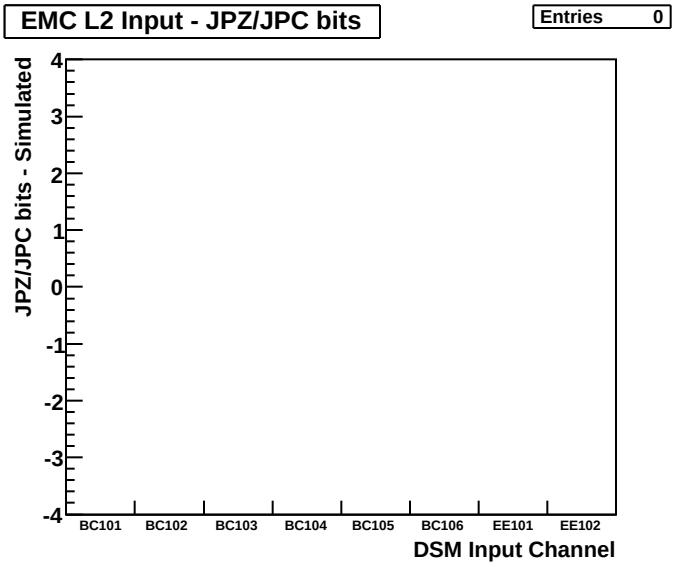

EMC L2 Input - JPX/JPA bits
Entries 320000
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
40000

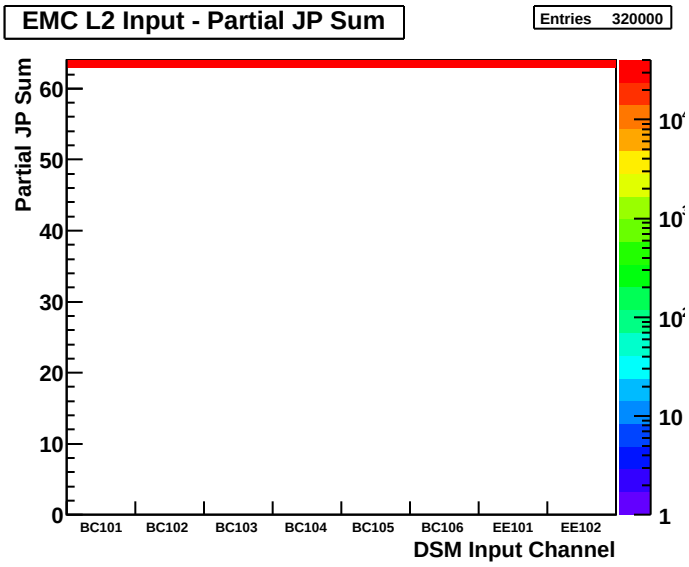

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

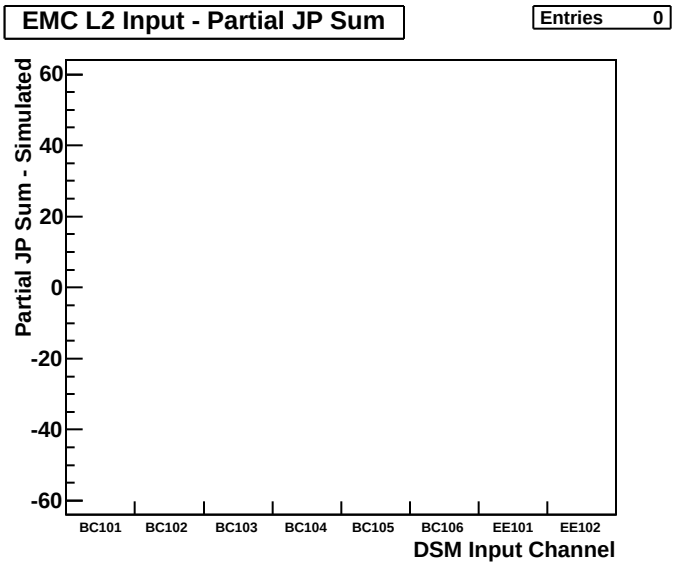

EMC L2 Input - JPY/JPB bits
Entries 320000
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
40000

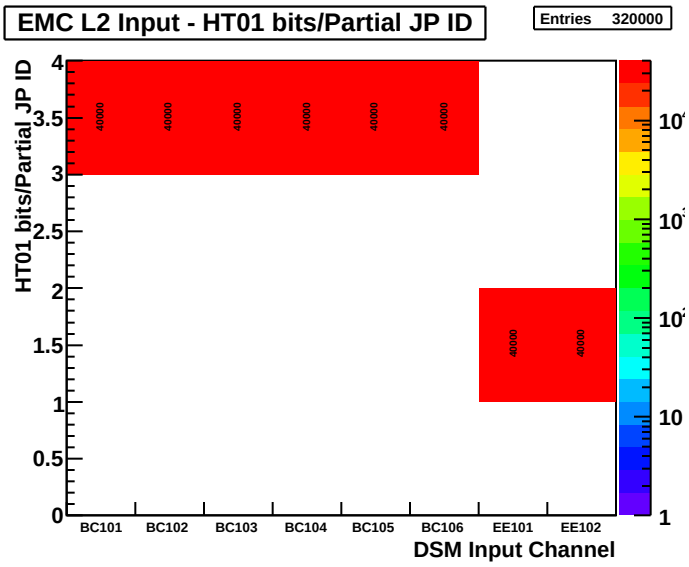

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

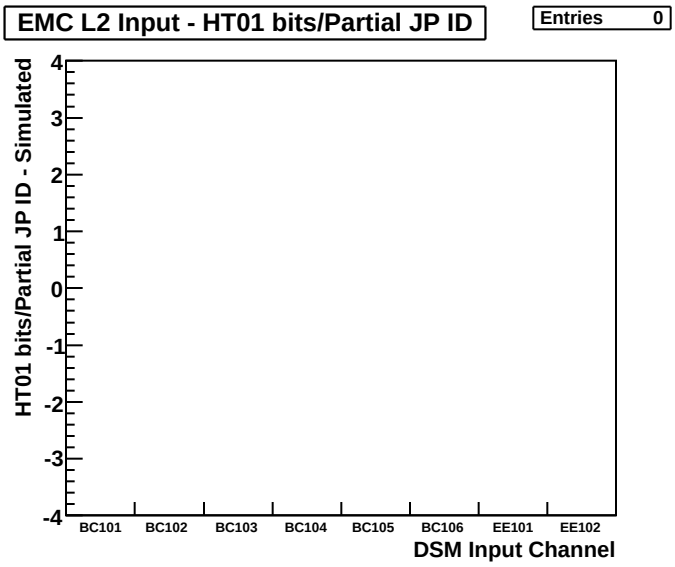

EMC L2 Input - JPZ/JPC bits
Entries 320000
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
40000

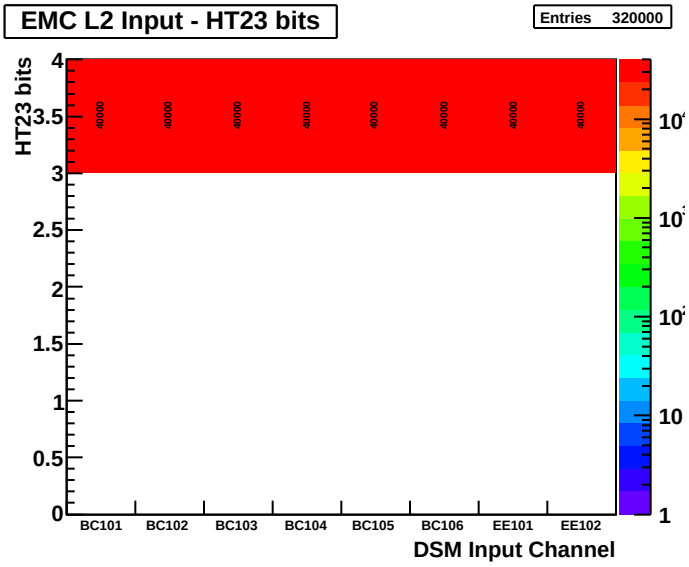

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

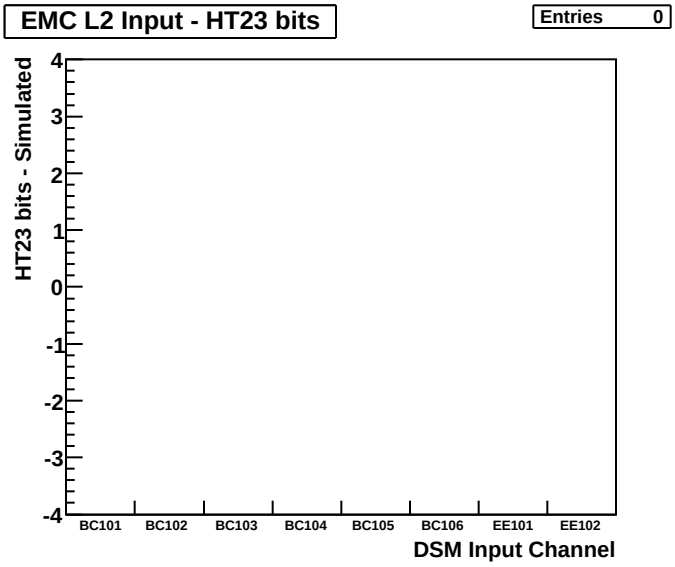

EMC L2 Input - Partial JP Sum
Entries 320000
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

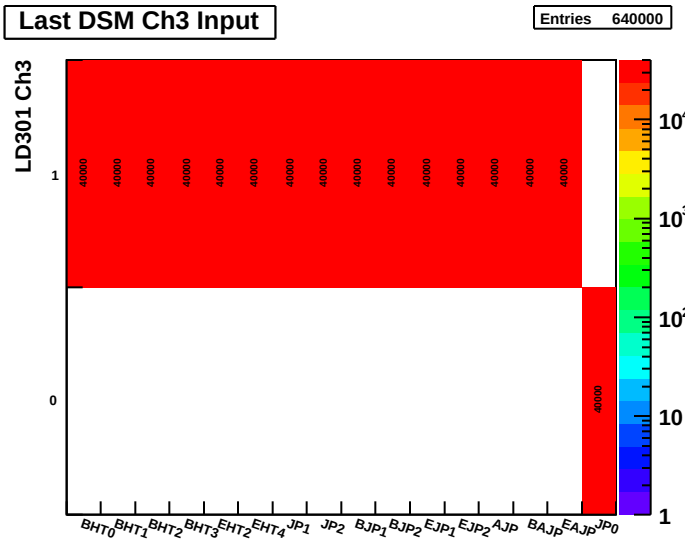

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

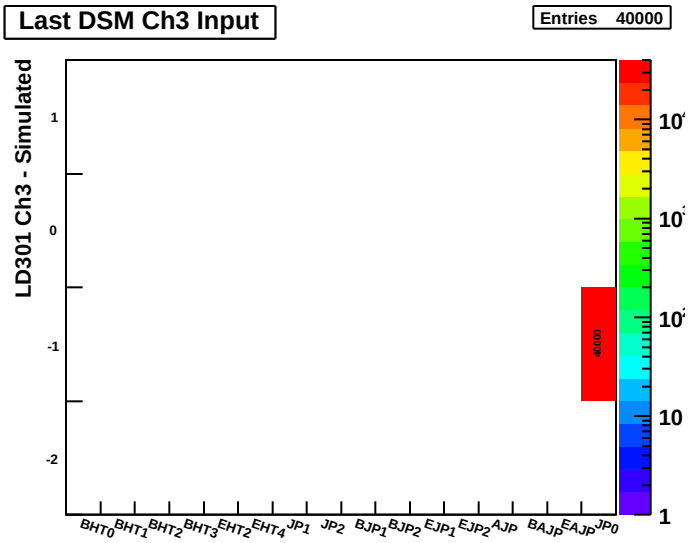

EMC L2 Input - HT01 bits/Partial JP ID
Entries 320000
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

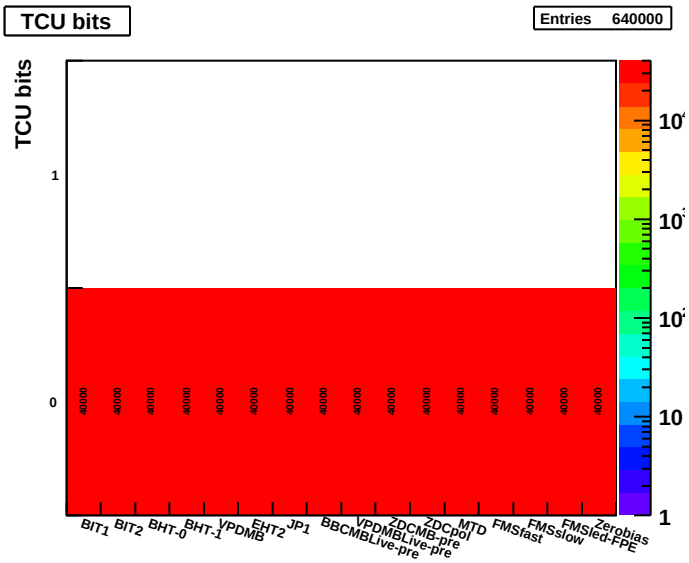

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

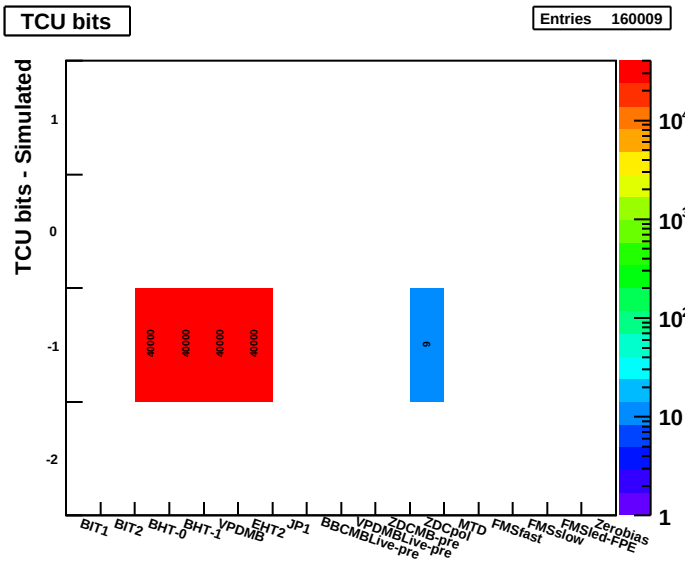

EMC L2 Input - HT23 bits
Entries 320000
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

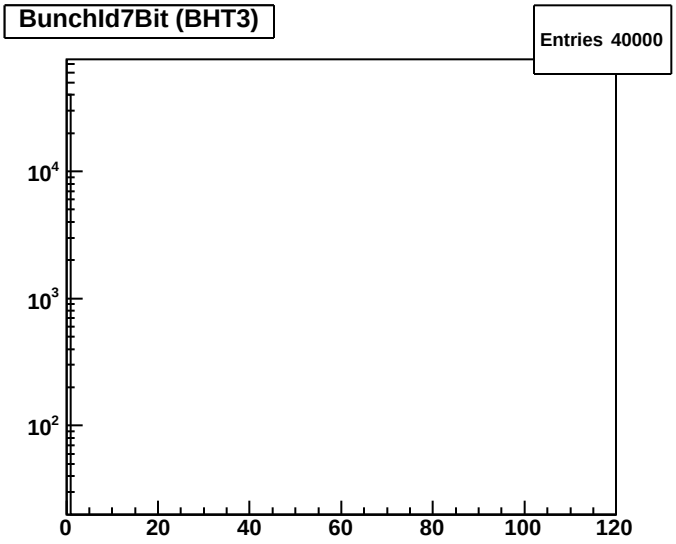

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

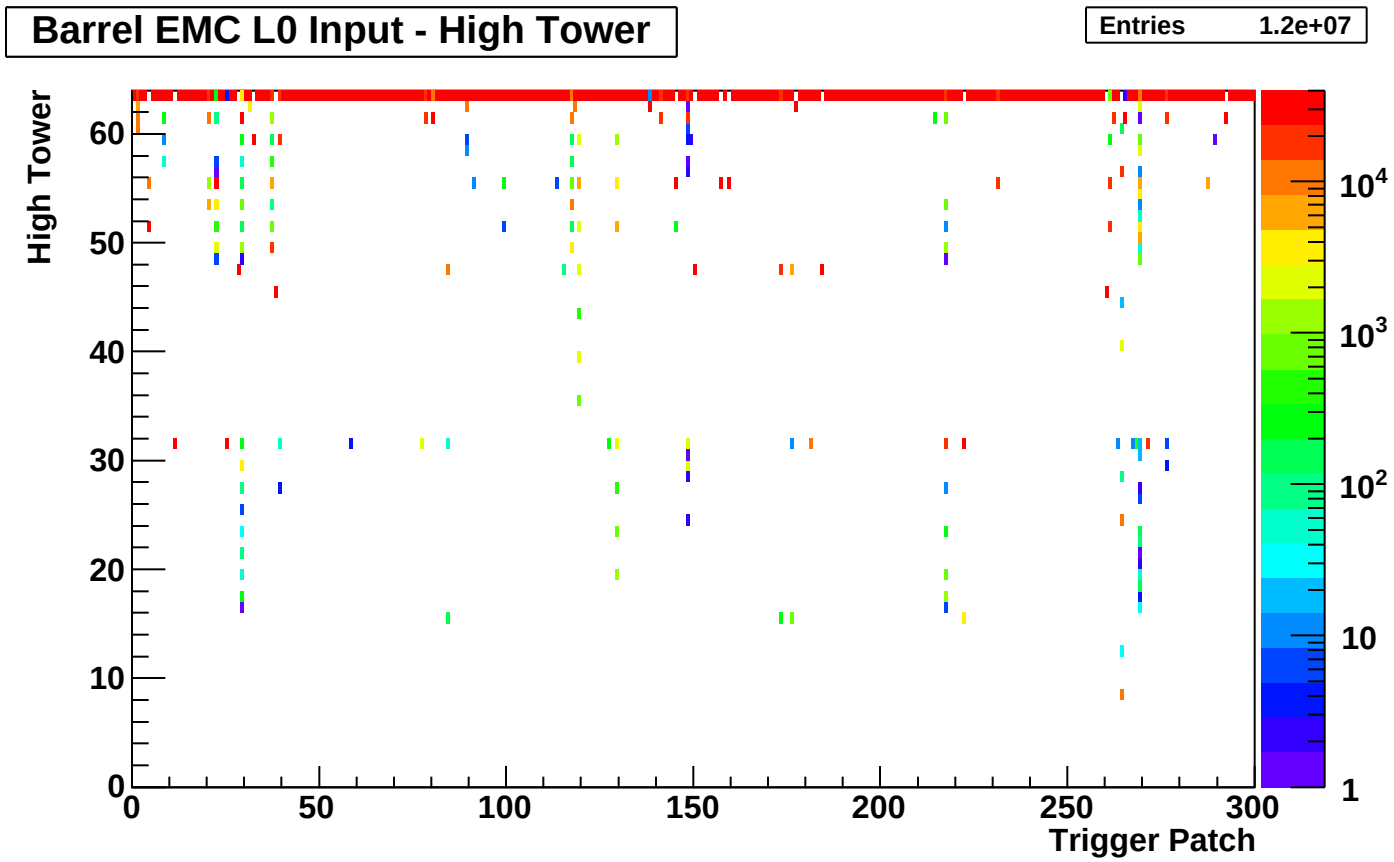

Last DSM Ch3 Input
Entries 640000
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

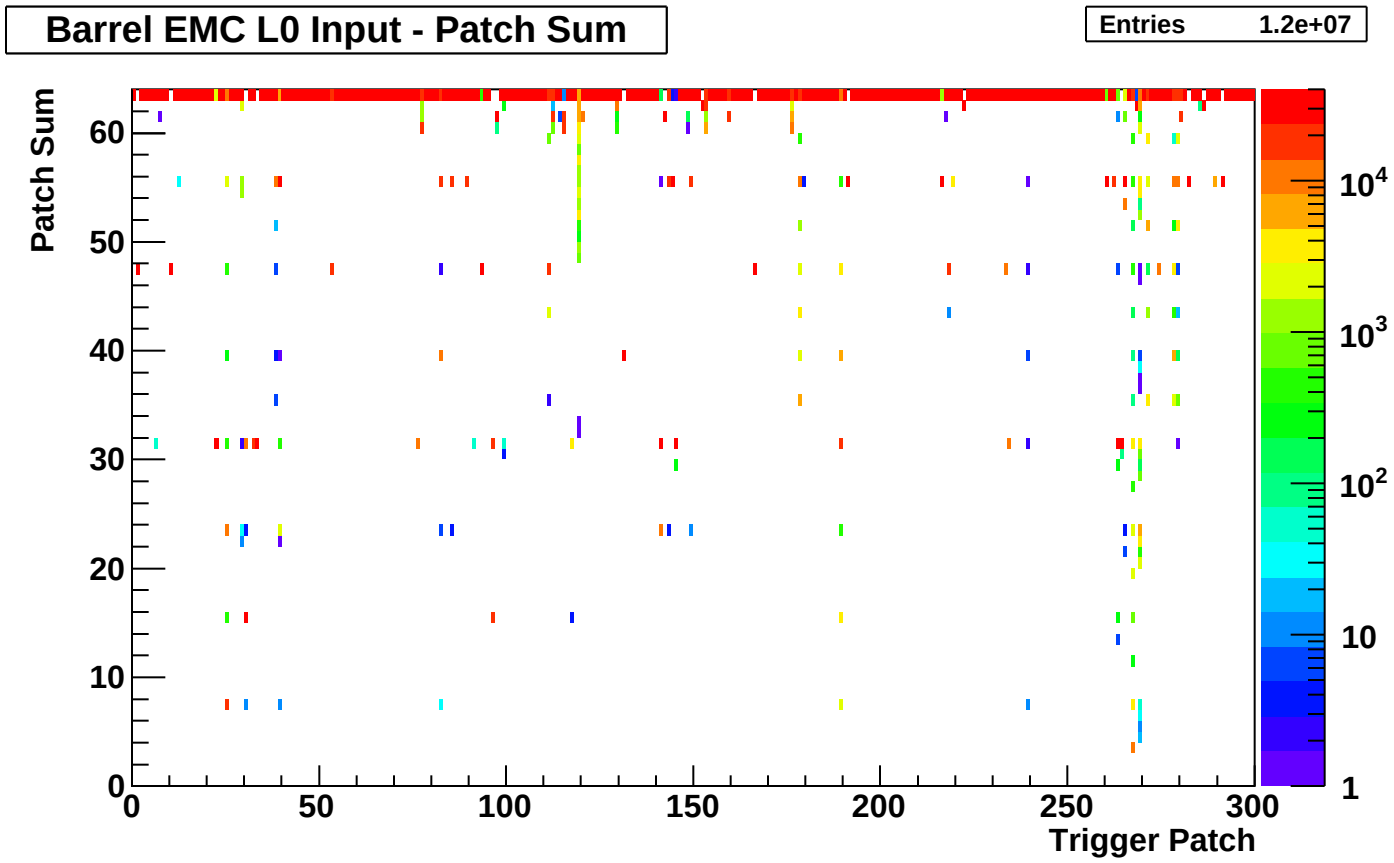

Last DSM Ch3 Input
Entries 40000
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

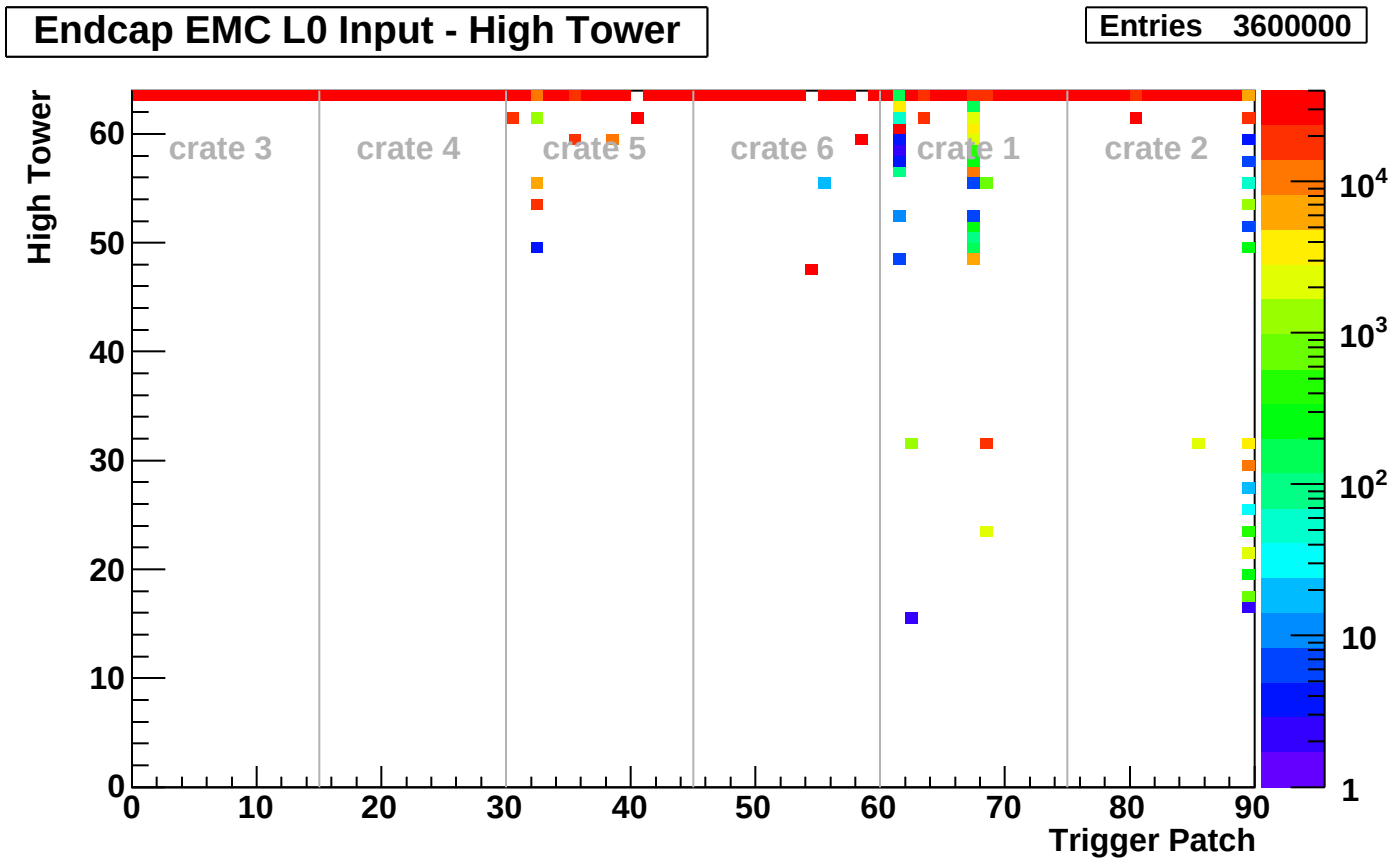

TCU bits
Entries 640000
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

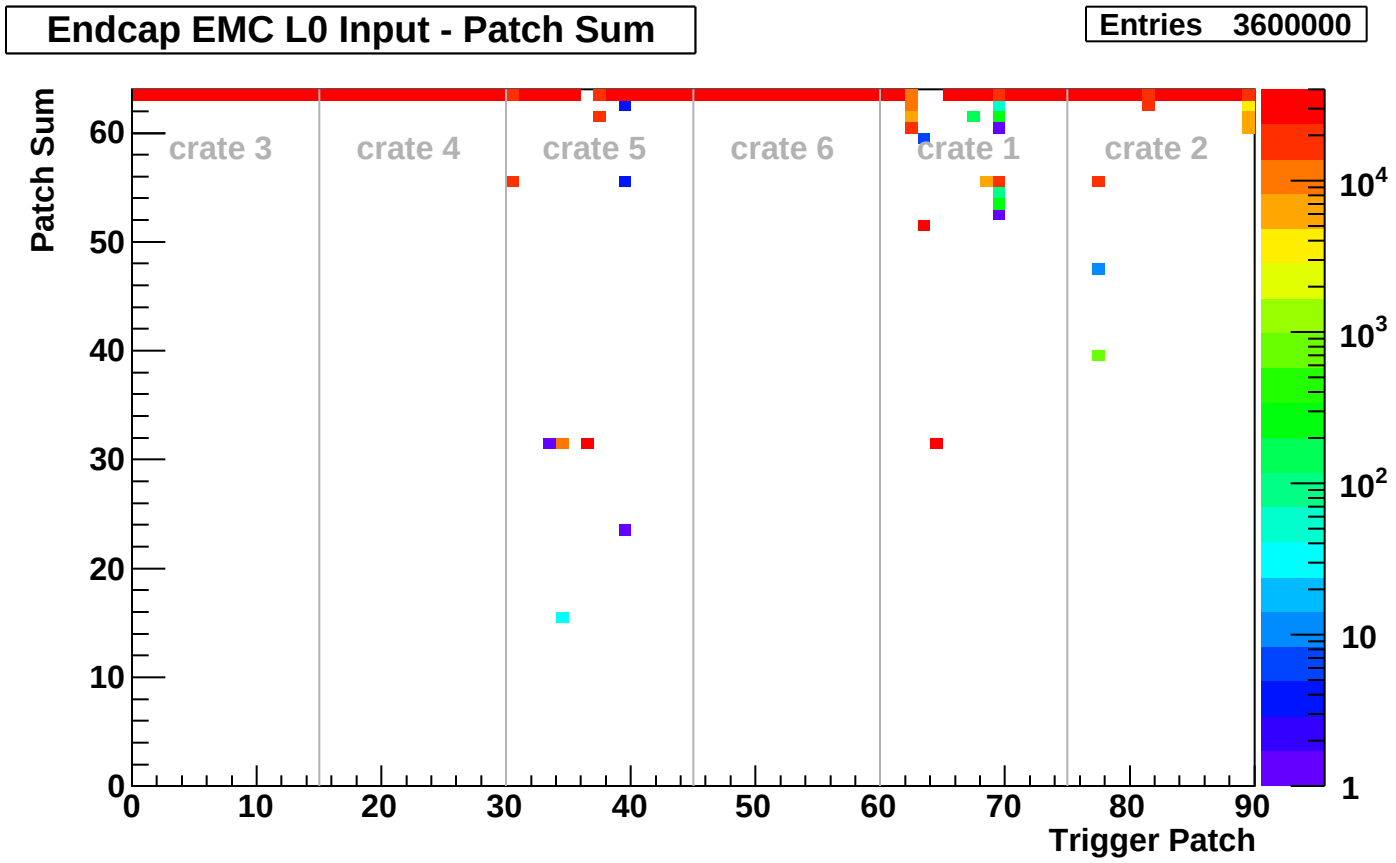

TCU bits
Entries 160009
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

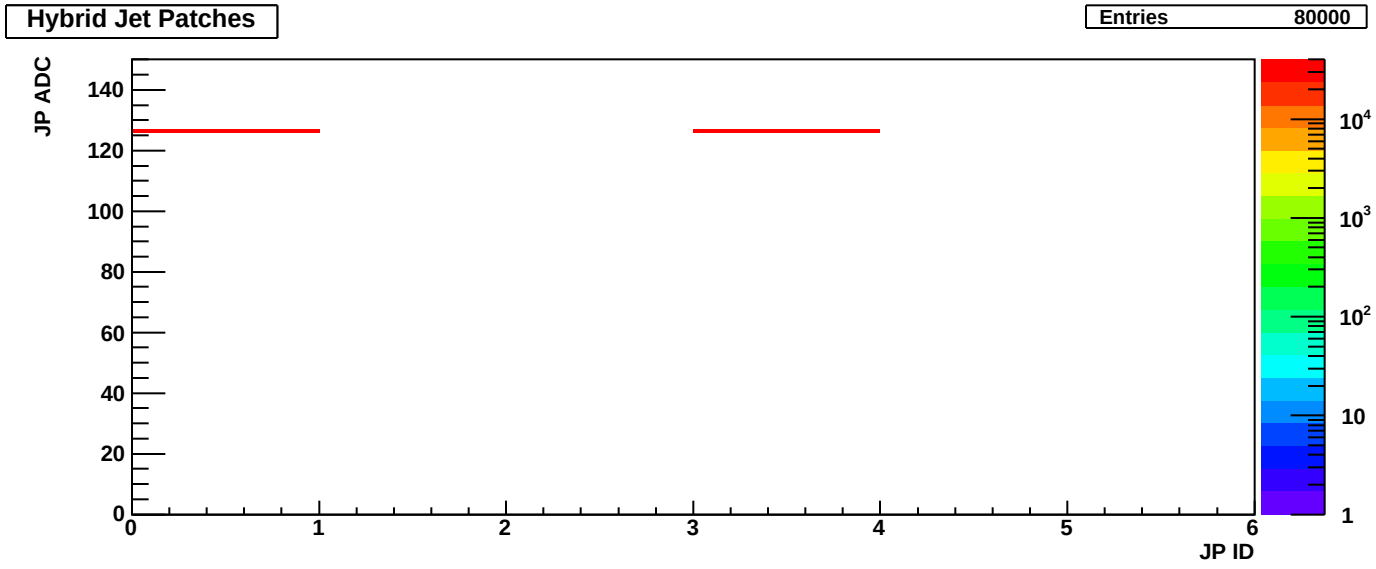

BunchId7Bit (BHT3)
Entries 40000

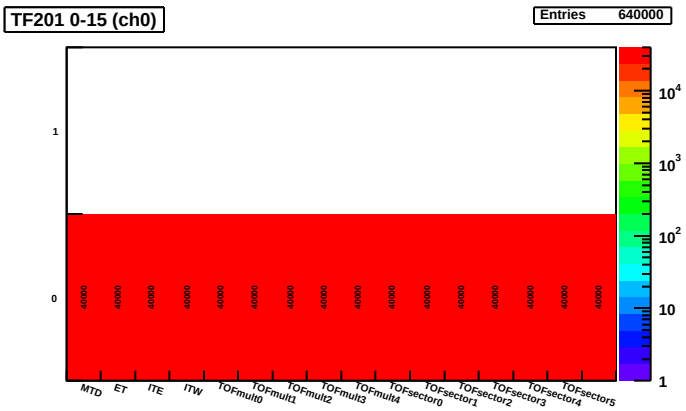

Barrel EMC L0 Input - High Tower
Entries 1.2e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

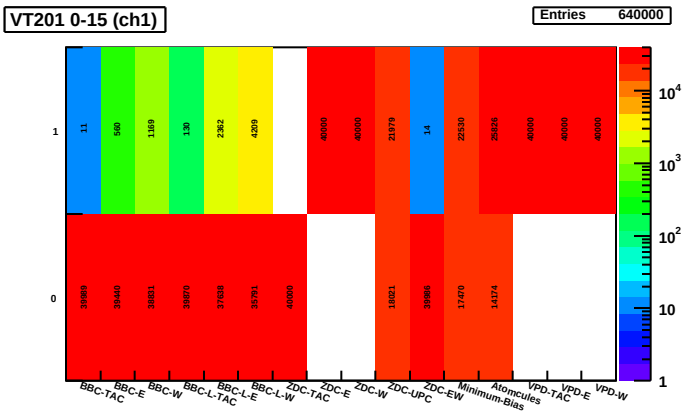

Barrel EMC L0 Input - Patch Sum
Entries 1.2e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

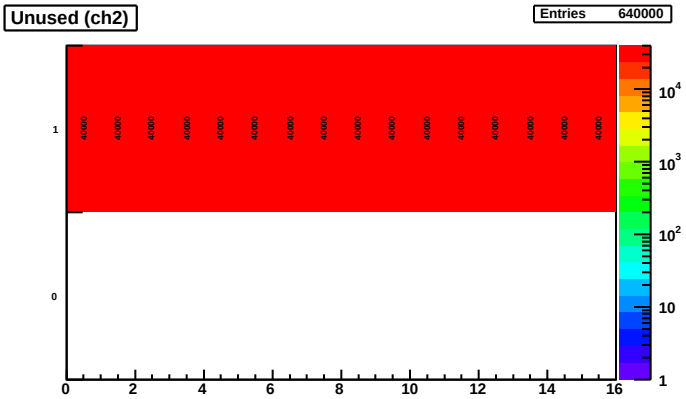

Endcap EMC L0 Input - High Tower
Entries 3600000
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

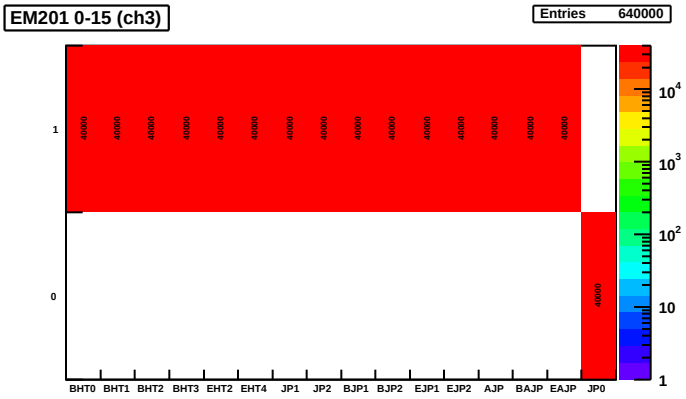

Endcap EMC L0 Input - Patch Sum
Entries 3600000
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

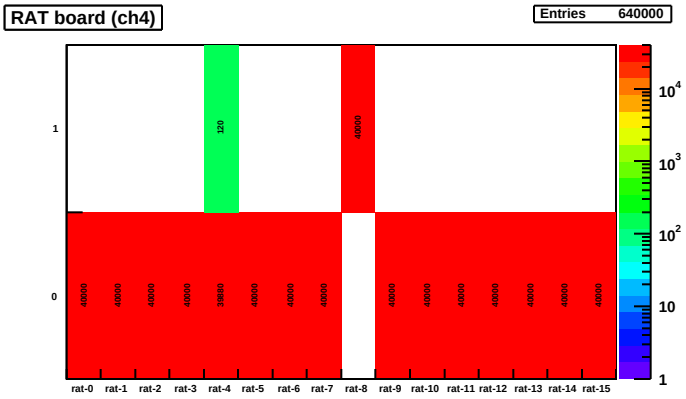

Hybrid Jet Patches
Entries 80000
JP ADC
140
120
100
80
60
40
20
0
0
1
2
3
4
5
6
JP ID
10^4
10^3
10^2
10
1

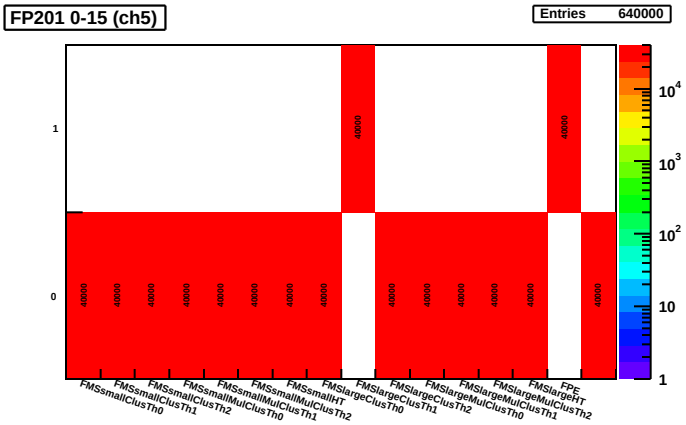

TF201 0-15 (ch0)
Entries 640000
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

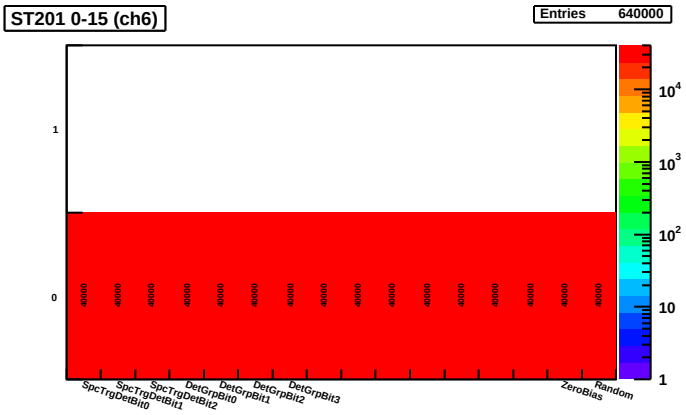

VT201 0-15 (ch1)
Entries 640000
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

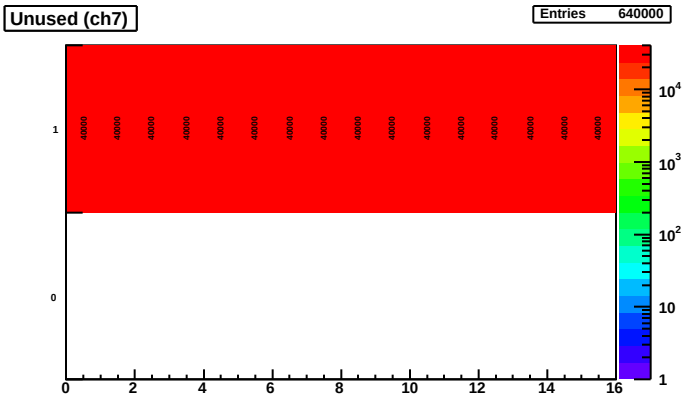

Unused (ch2)
Entries 640000

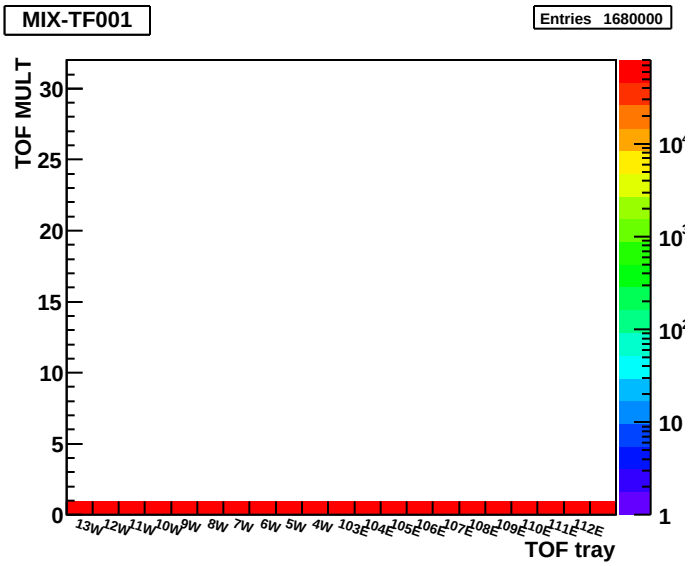

EM201 0-15 (ch3)
Entries 640000
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

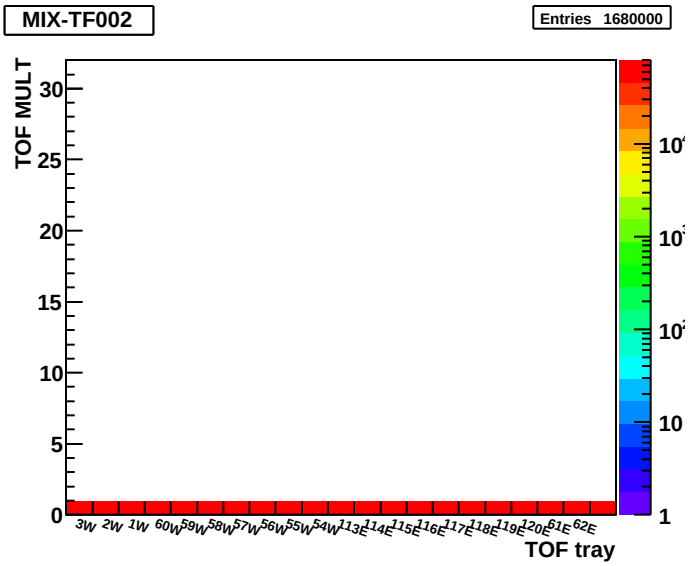

RAT board (ch4)
Entries 640000
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

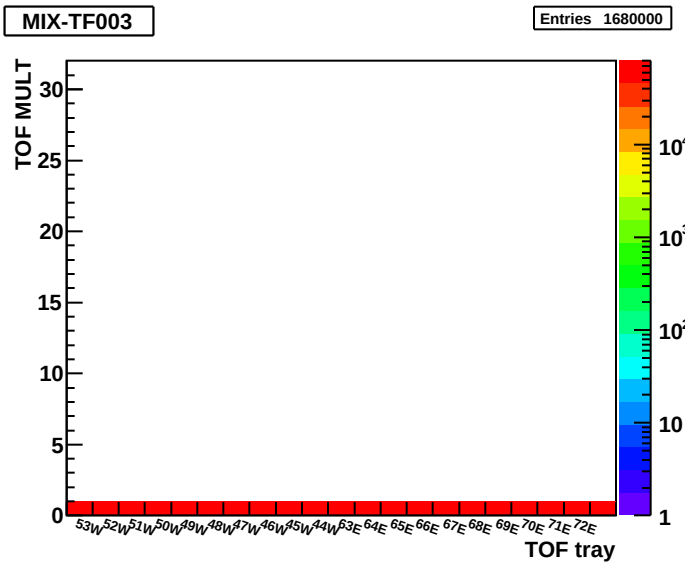

FP201 0-15 (ch5)
Entries 640000
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

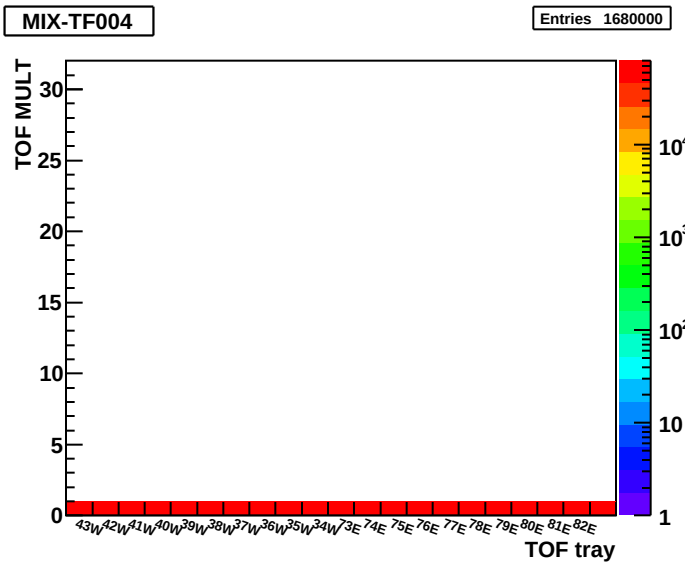

ST201 0-15 (ch6)
Entries 640000
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random

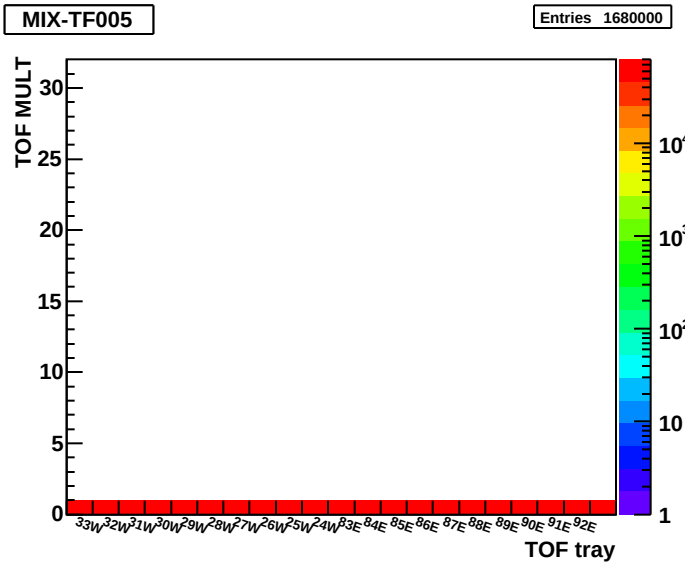

Unused (ch7)
Entries 640000

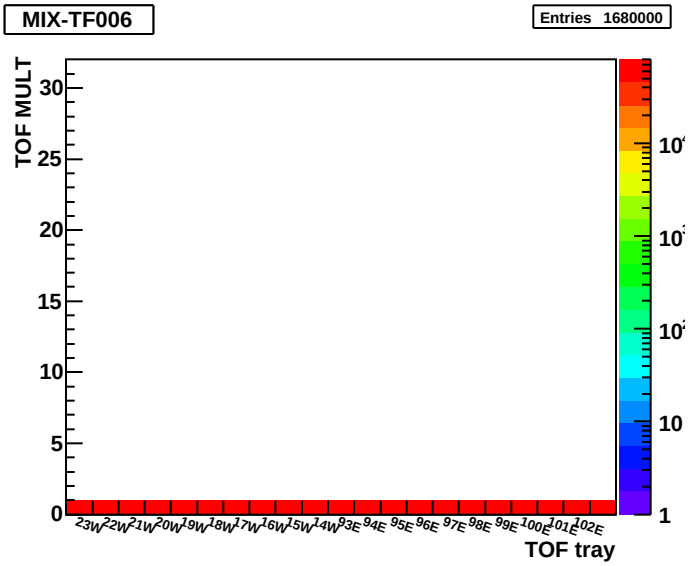

MIX-TF001
Entries 1680000
TOF MULT
TOF tray

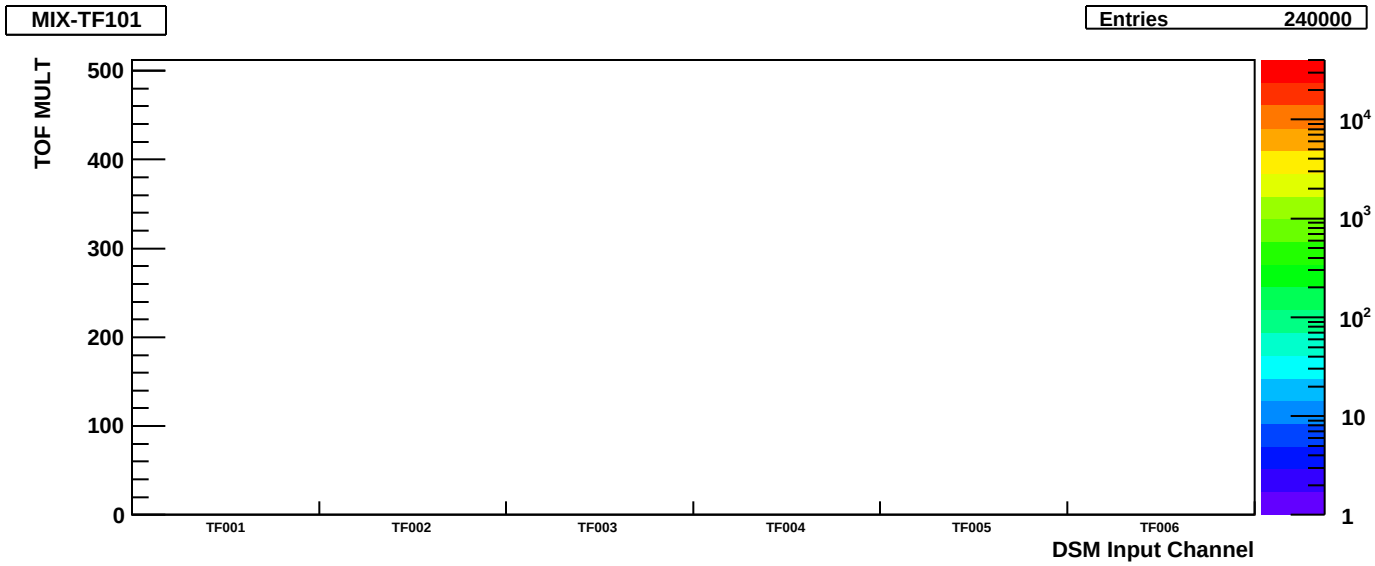

MIX-TF002
Entries 1680000
TOF MULT
TOF tray

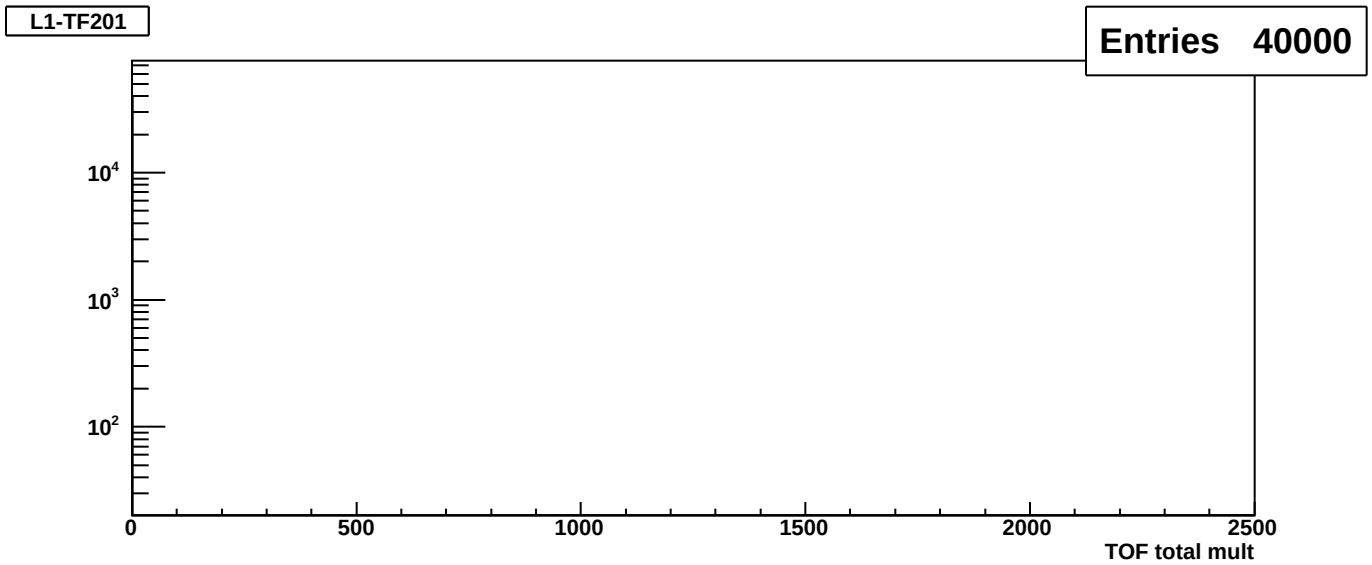

MIX-TF003
Entries 1680000
TOF MULT
TOF tray

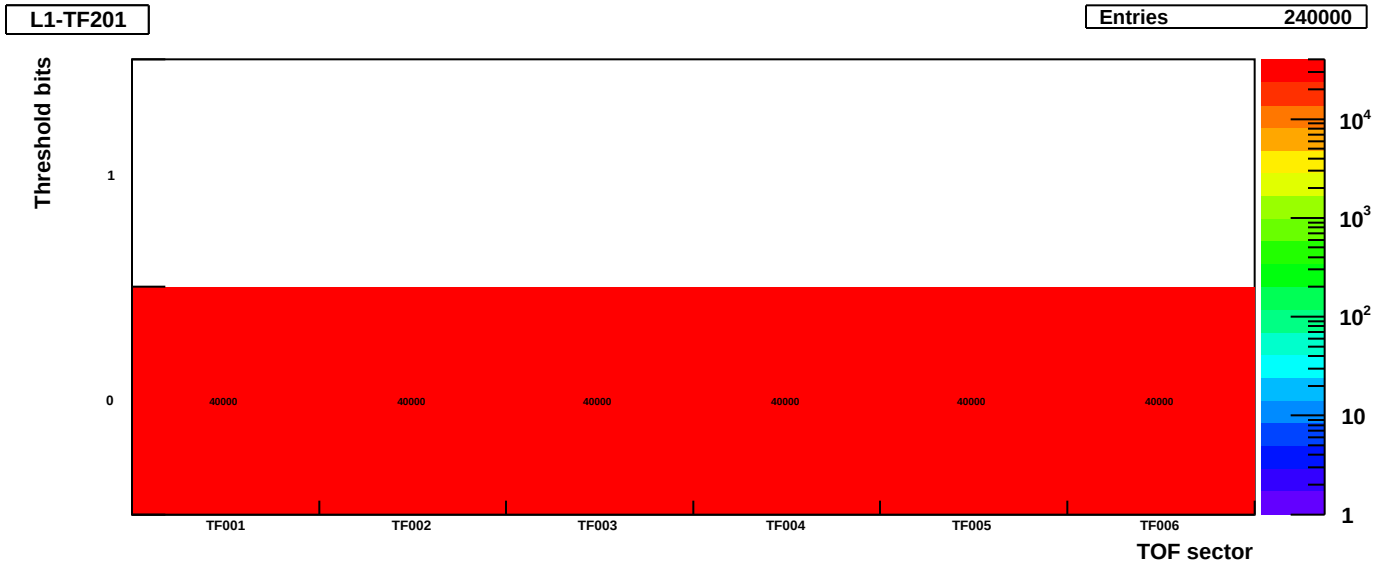

MIX-TF004
Entries 1680000
TOF MULT
TOF tray

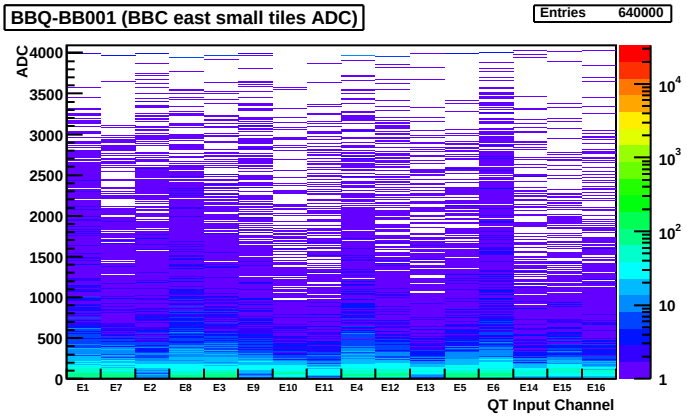

MIX-TF005
Entries 1680000
TOF MULT
TOF tray

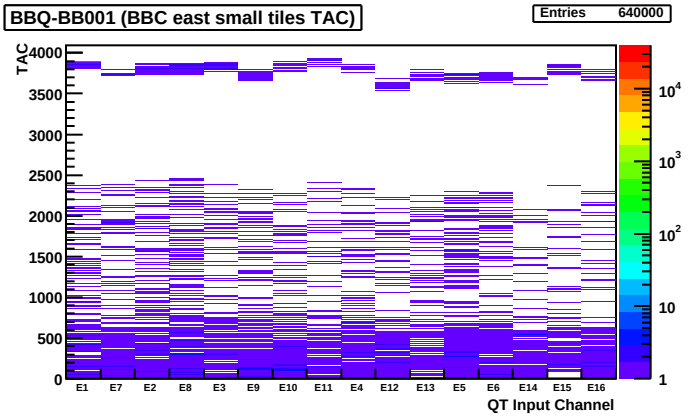

MIX-TF006
Entries 1680000
TOF MULT
TOF tray

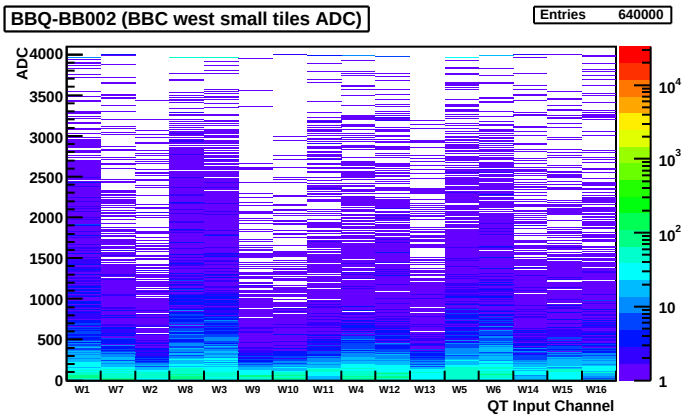

MIX-TF101
Entries 240000
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

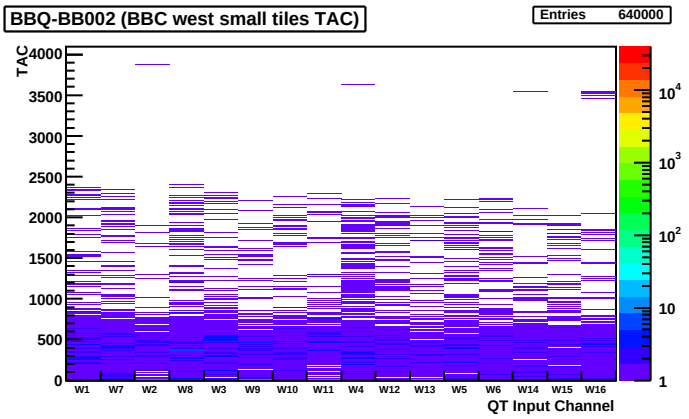

L1-TF201
Entries 40000
10^4
10^3
10^2
0
500
1000
1500
2000
2500
TOF total mult

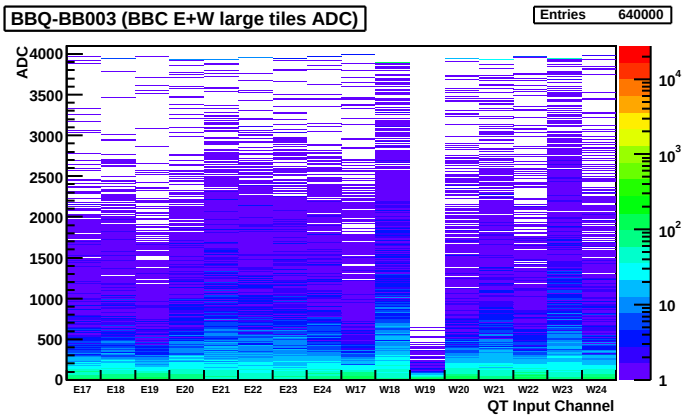

L1-TF201
Entries 240000
Threshold bits
1
0
40000
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3
10^2
10
1

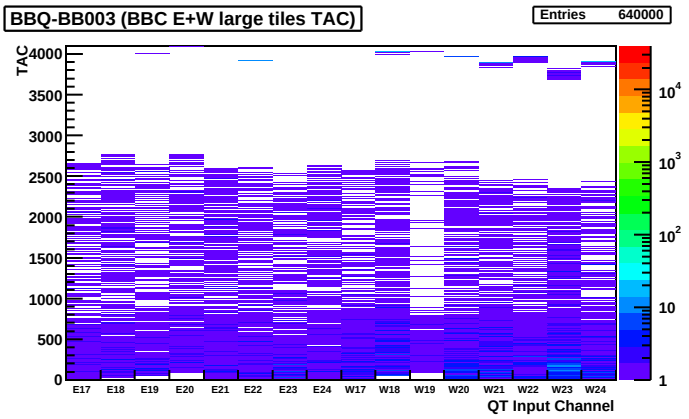

BBQ-BB001 (BBC east small tiles ADC)
Entries 640000
ADC
QT Input Channel

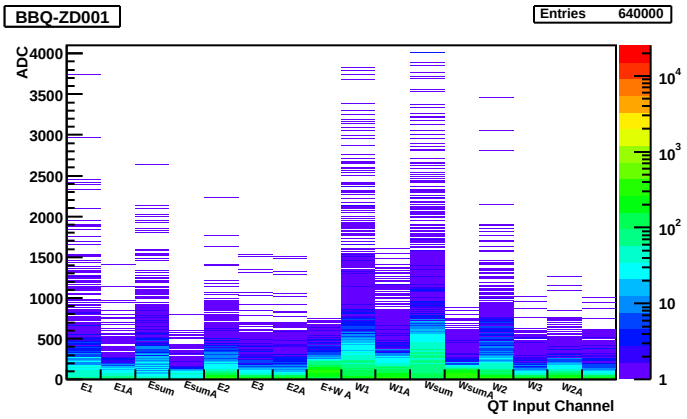

BBQ-BB001 (BBC east small tiles TAC)
Entries 640000
TAC
QT Input Channel

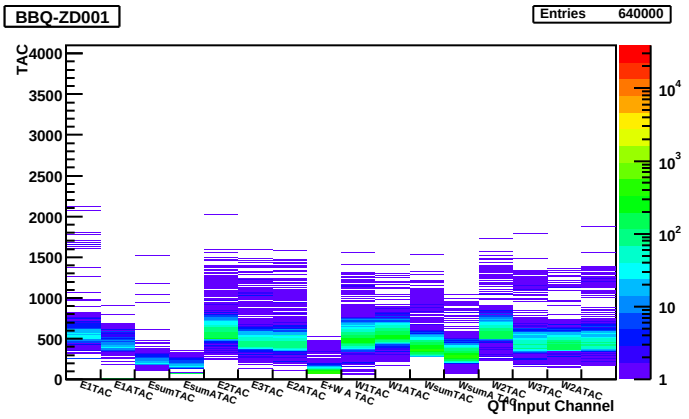

BBQ-BB002 (BBC west small tiles ADC)
Entries 640000
ADC
QT Input Channel

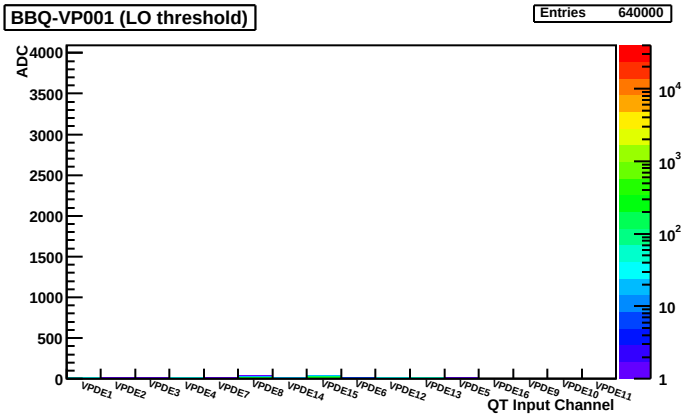

BBQ-BB002 (BBC west small tiles TAC)
Entries 640000
TAC
QT Input Channel

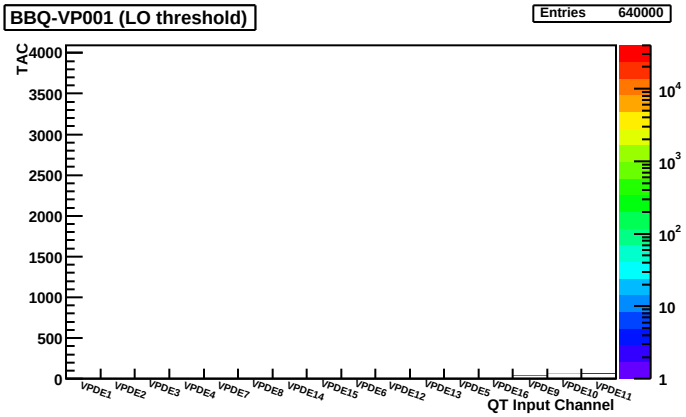

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 640000
ADC
QT Input Channel

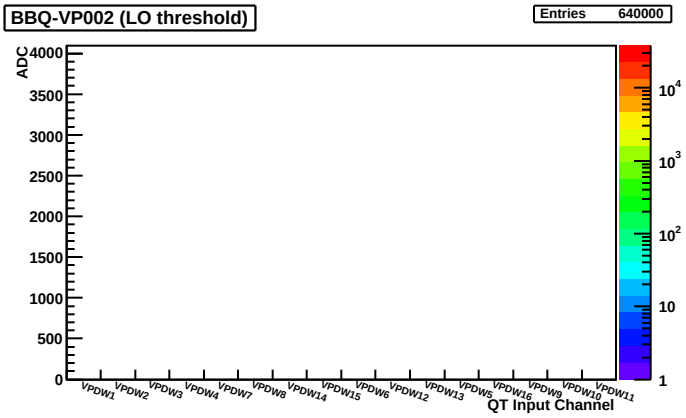

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 640000
TAC
QT Input Channel

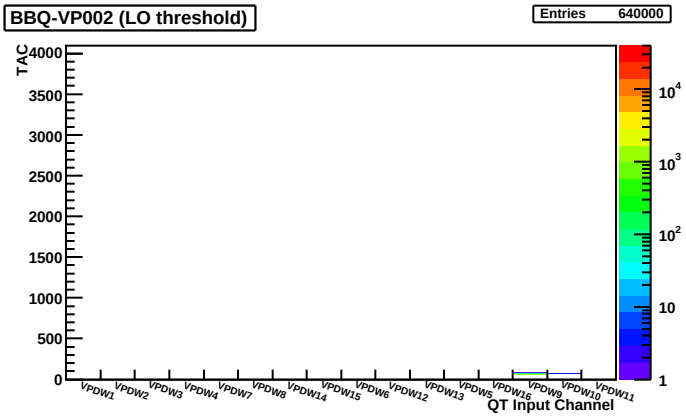

BBQ-ZD001
Entries 640000
ADC
QT Input Channel

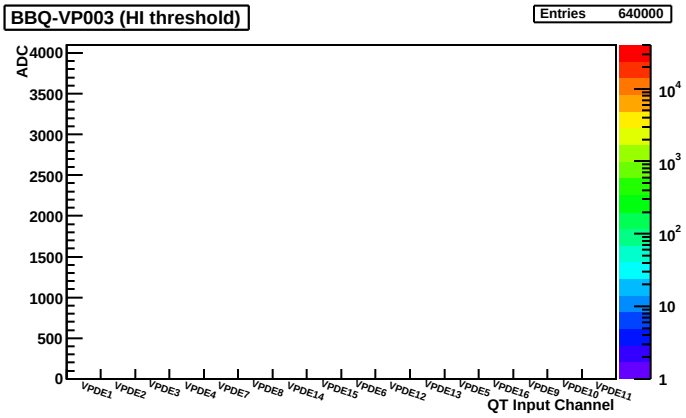

BBQ-ZD001
Entries 640000
TAC
QT Input Channel

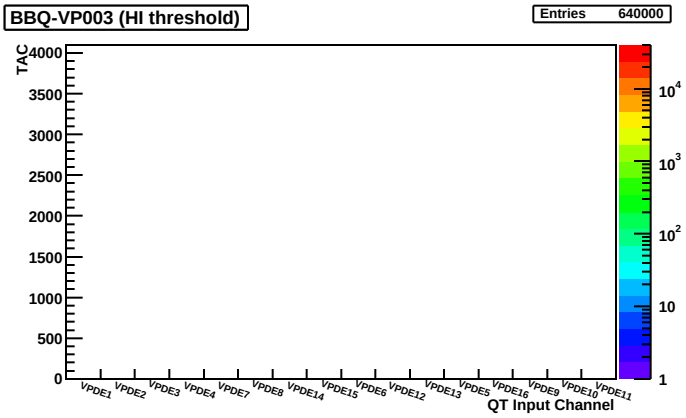

BBQ-VP001 (LO threshold)
Entries 640000
ADC
QT Input Channel

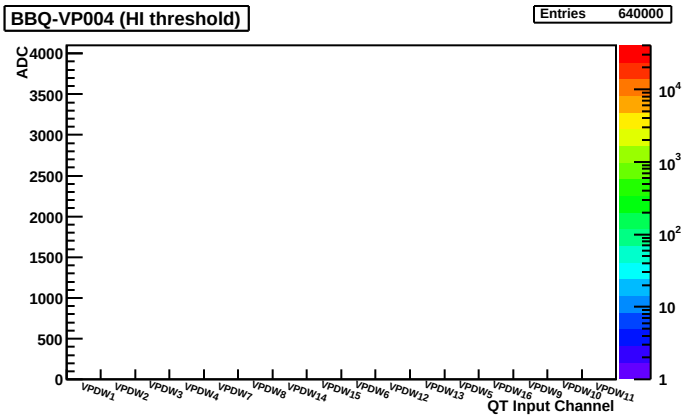

BBQ-VP001 (LO threshold)
Entries 640000
TAC
QT Input Channel

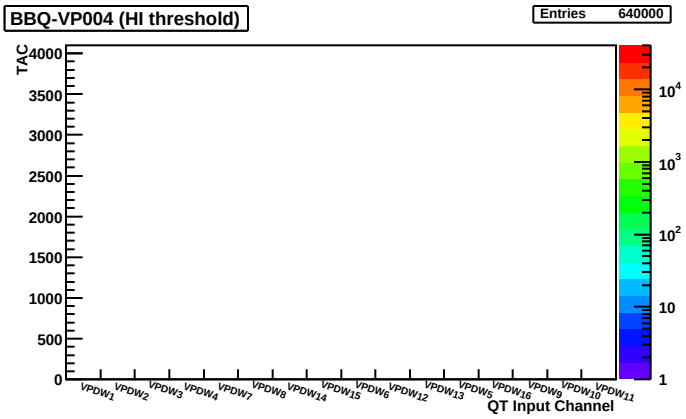

BBQ-VP002 (LO threshold)
Entries 640000
ADC
QT Input Channel

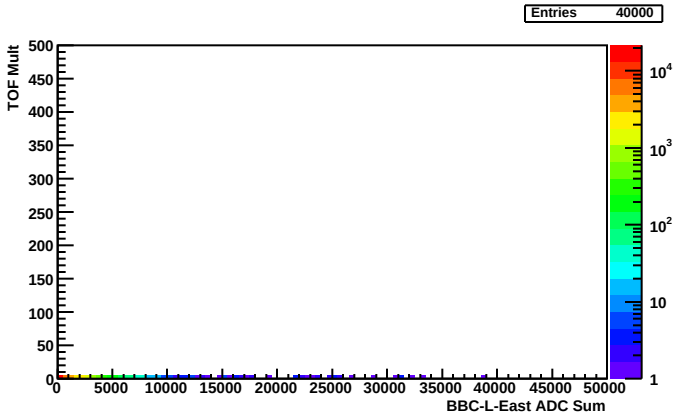

BBQ-VP002 (LO threshold)
Entries 640000
TAC
QT Input Channel

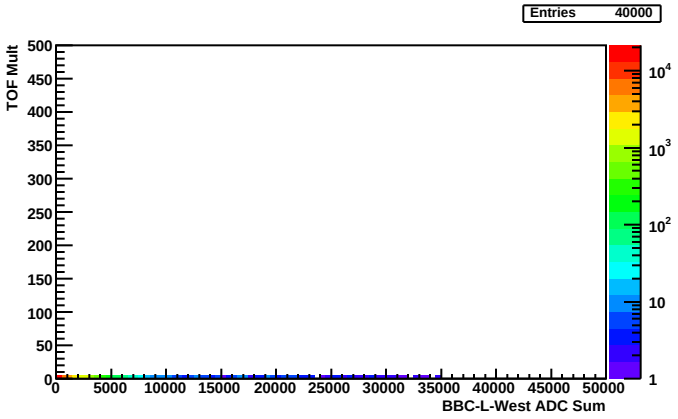

BBQ-VP003 (HI threshold)
Entries 640000
ADC
QT Input Channel

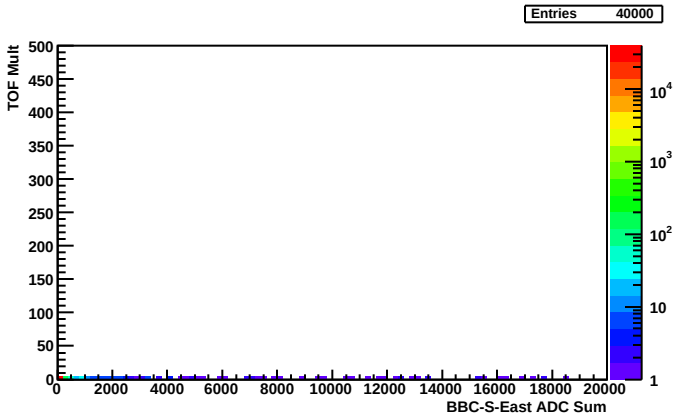

BBQ-VP003 (HI threshold)
Entries 640000
TAC
QT Input Channel

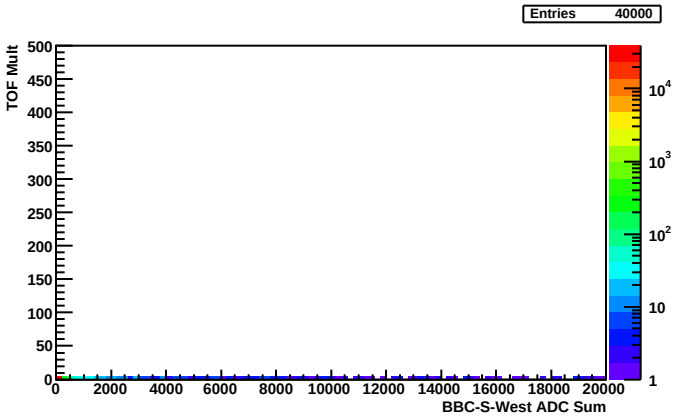

BBQ-VP004 (HI threshold)
Entries 640000
ADC
QT Input Channel

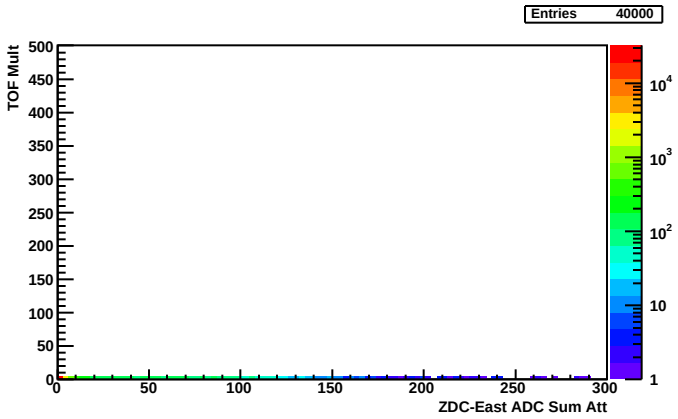

BBQ-VP004 (HI threshold)
Entries 640000
TAC
QT Input Channel

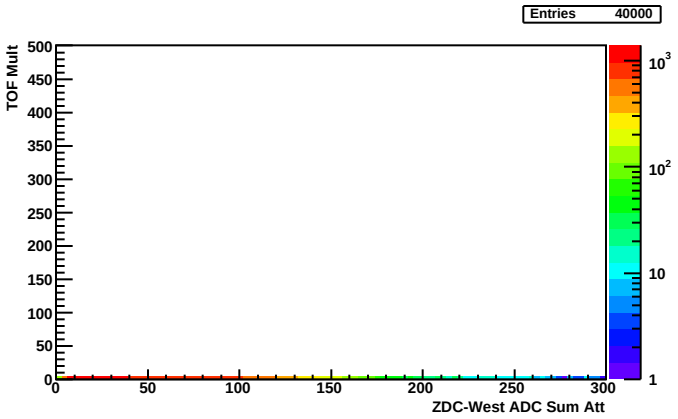

Entries 40000
TOF Mult
BBC-L-East ADC Sum

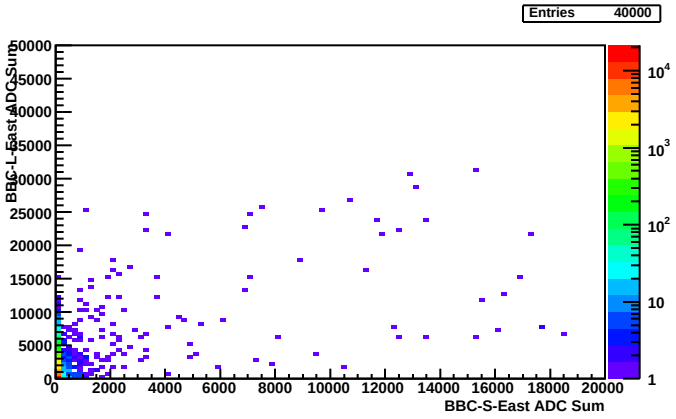

Entries 40000
TOF Mult
BBC-L-West ADC Sum

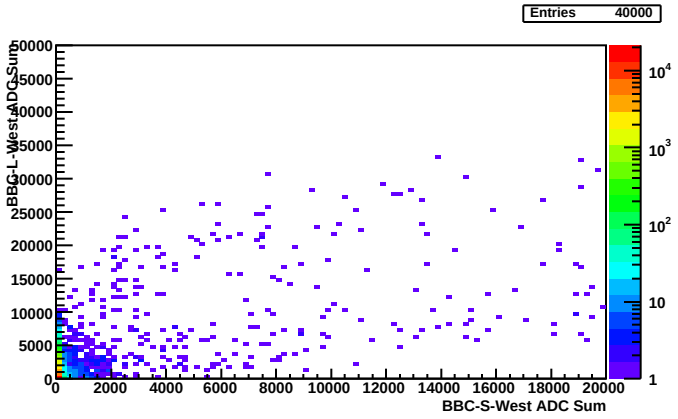

Entries 40000
TOF Mult
BBC-S-East ADC Sum

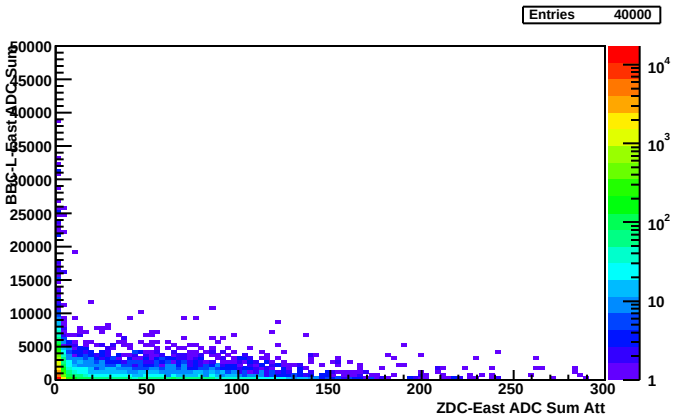

Entries 40000
TOF Mult
BBC-S-West ADC Sum

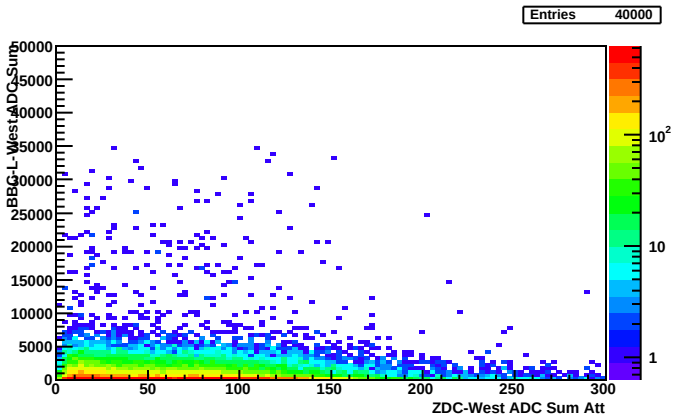

Entries 40000
TOF Mult
ZDC-East ADC Sum Att

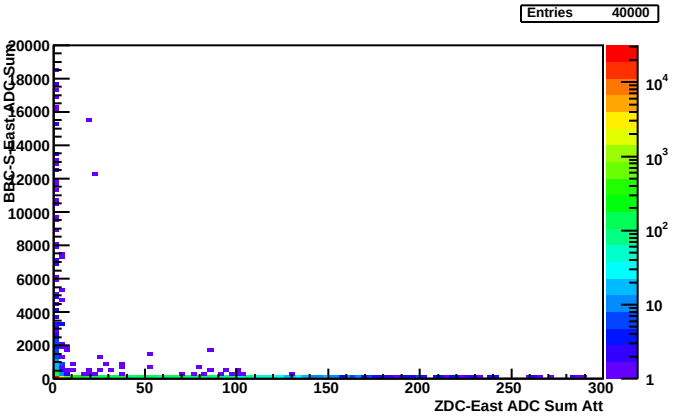

Entries 40000
TOF Mult
ZDC-West ADC Sum Att

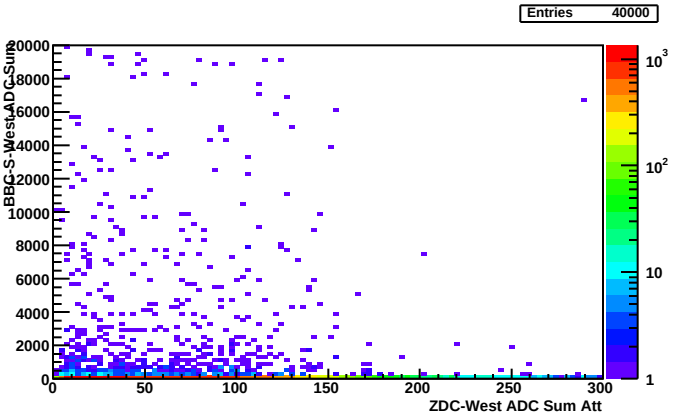

Entries 40000
BBC-L-East ADC Sum
BBC-S-East ADC Sum

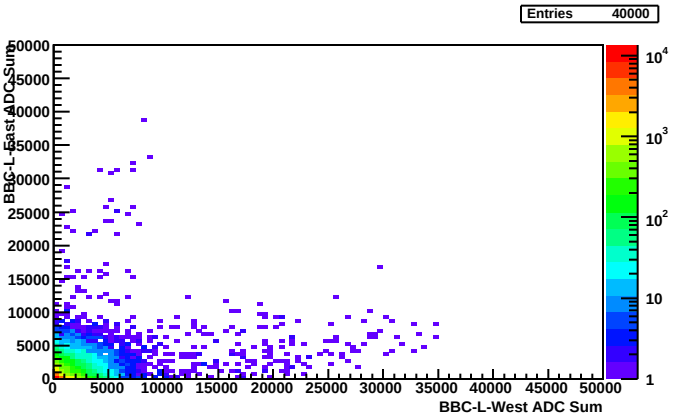

Entries 40000
BBC-L-West ADC Sum
BBC-S-West ADC Sum

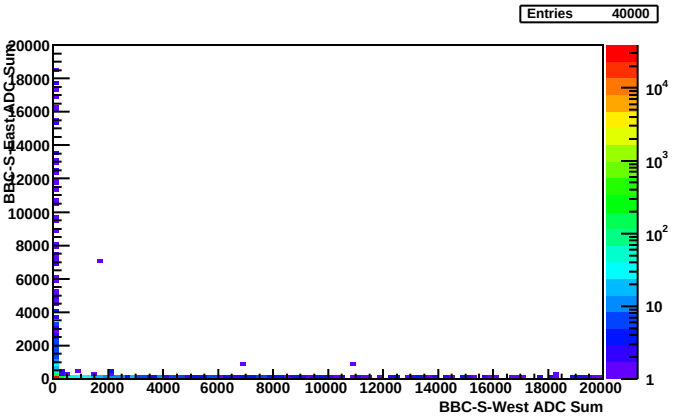

Entries 40000
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

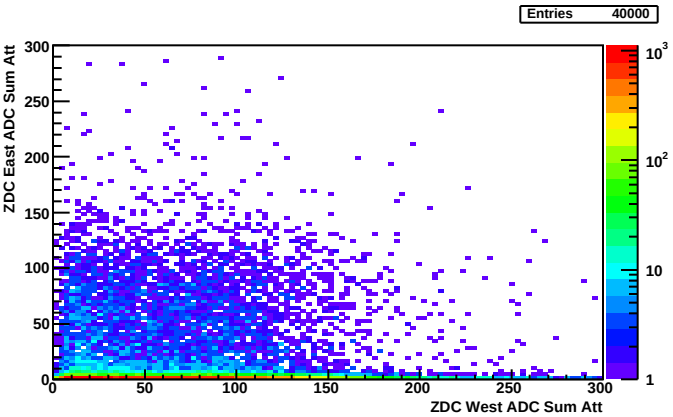

Entries 40000
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

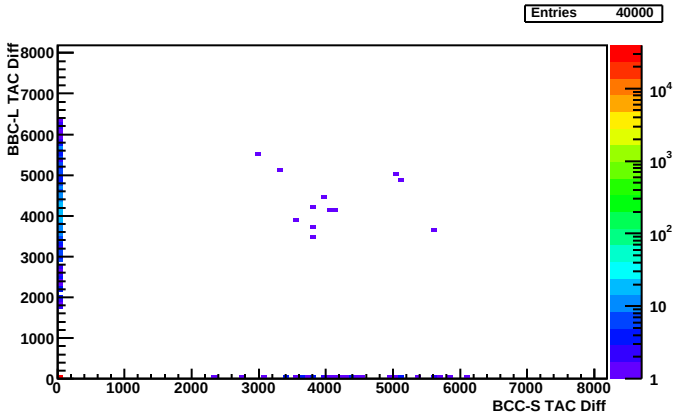

Entries 40000
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

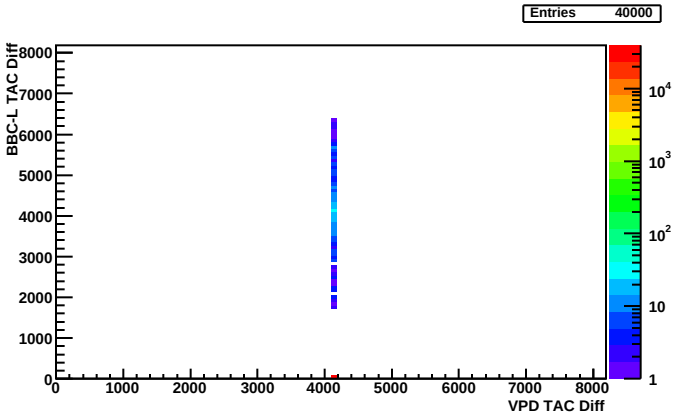

Entries 40000
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

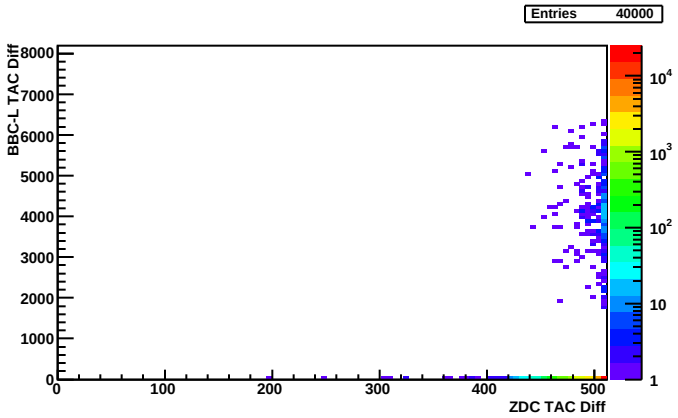

Entries 40000
BBC-L-East ADC Sum
BBC-L-West ADC Sum

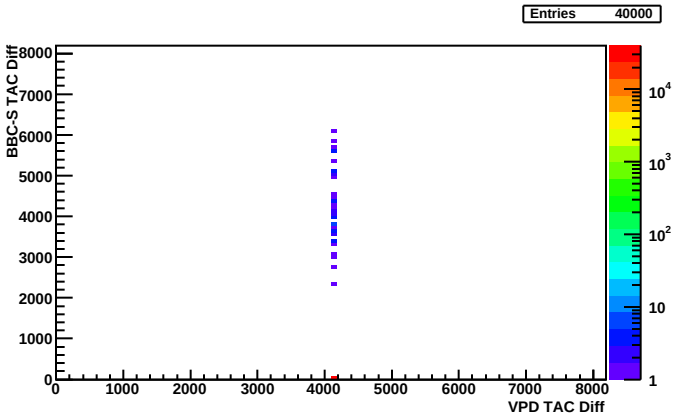

Entries 40000
BBC-S-East ADC Sum
BBC-S-West ADC Sum

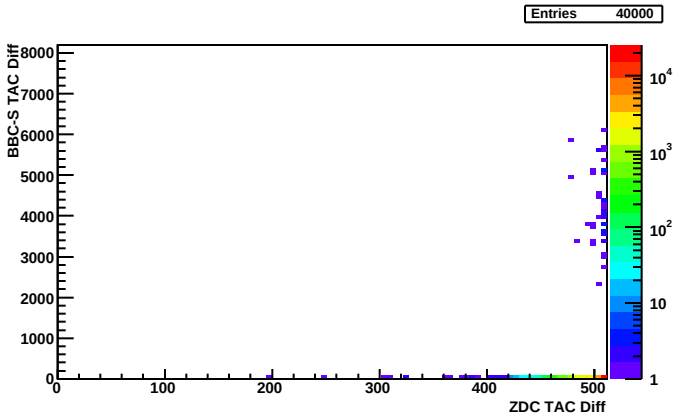

Entries 40000
ZDC East ADC Sum Att
ZDC West ADC Sum Att

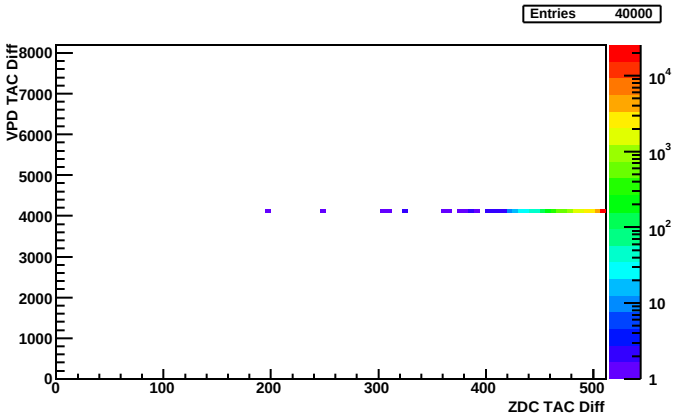

Entries 40000
BBC-L TAC Diff
BCC-S TAC Diff

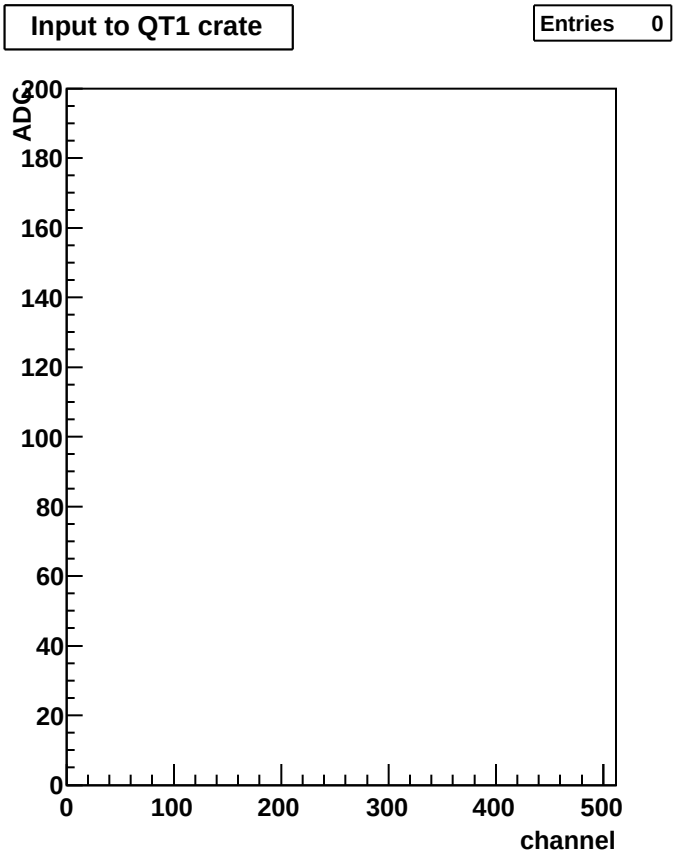

Entries 40000
BBC-L TAC Diff
VPD TAC Diff

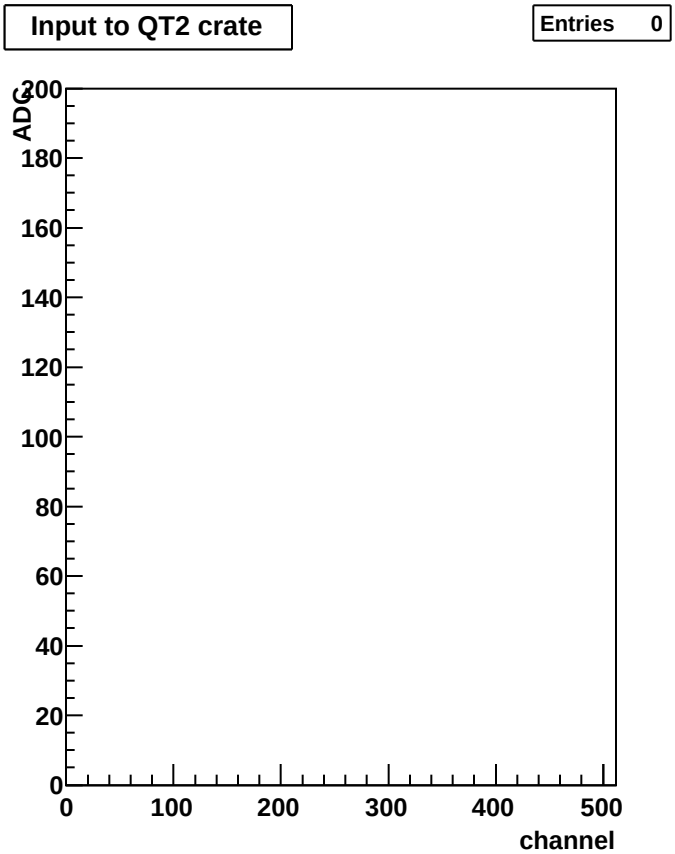

Entries 40000
BBC-L TAC Diff
ZDC TAC Diff

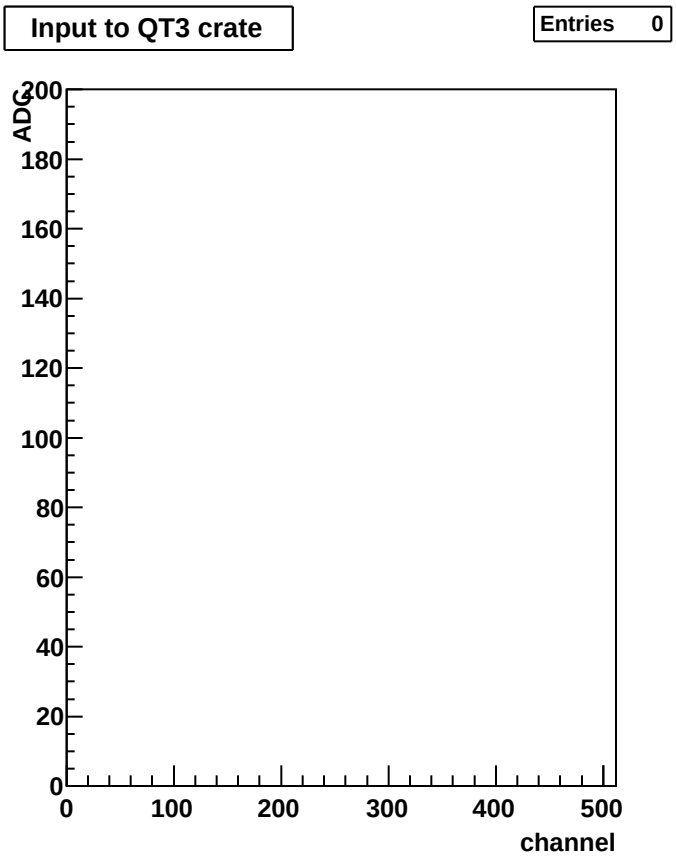

Entries 40000
BBC-S TAC Diff
VPD TAC Diff

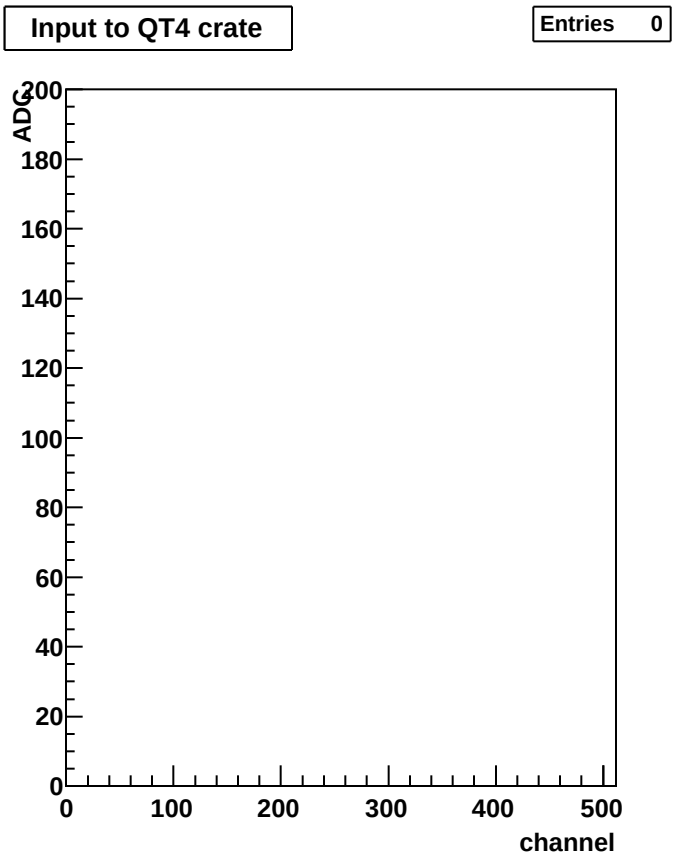

Entries 40000
BBC-S TAC Diff
ZDC TAC Diff

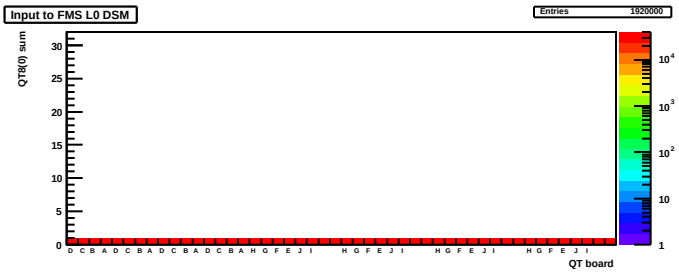

Entries 40000
VPD TAC Diff
ZDC TAC Diff

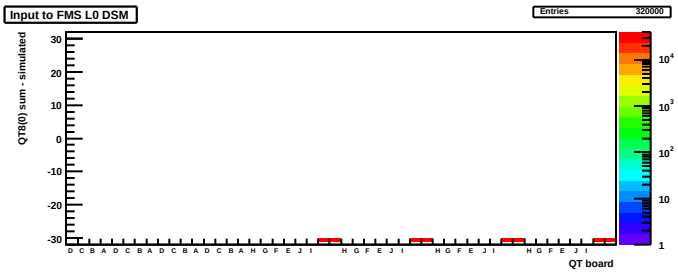

Input to QT1 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

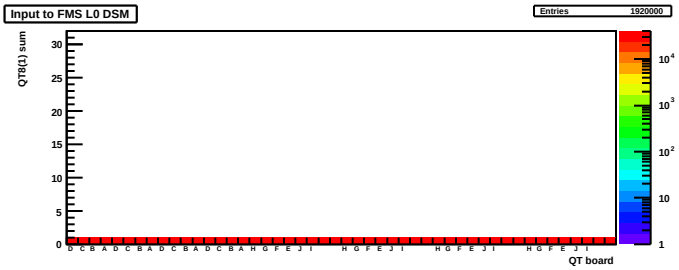

Input to QT2 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

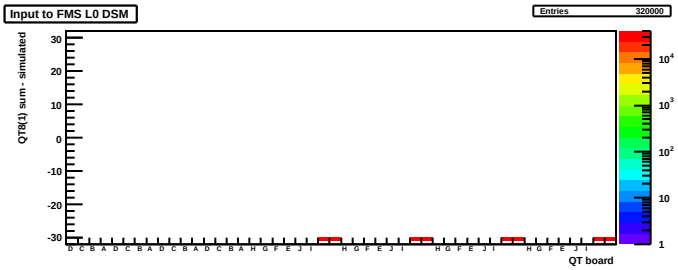

Input to QT3 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

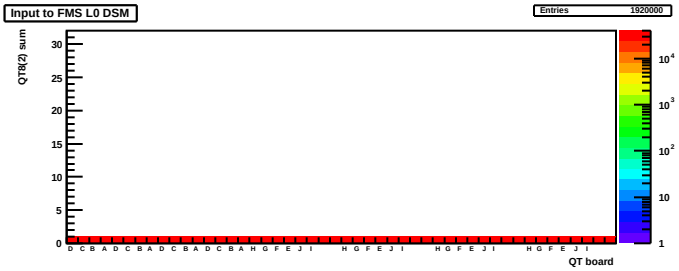

Input to QT4 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

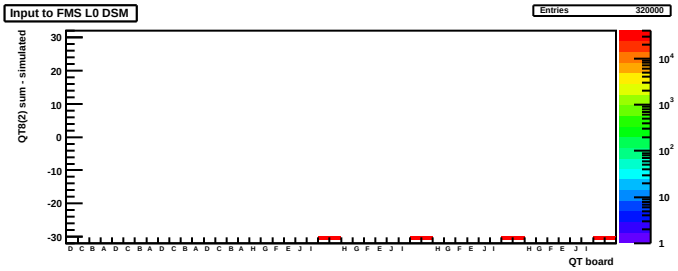

Input to FMS L0 DSM
Entries 1920000
QT8(0) sum
QT board

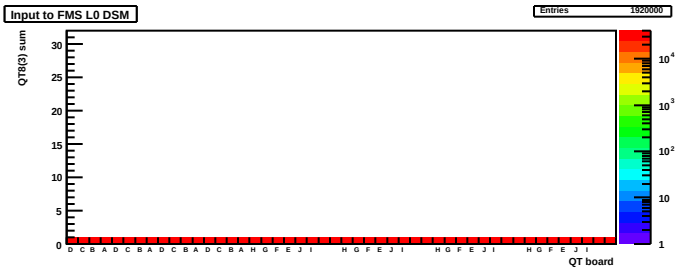

Input to FMS L0 DSM
Entries 320000
QT8(0) sum - simulated
QT board

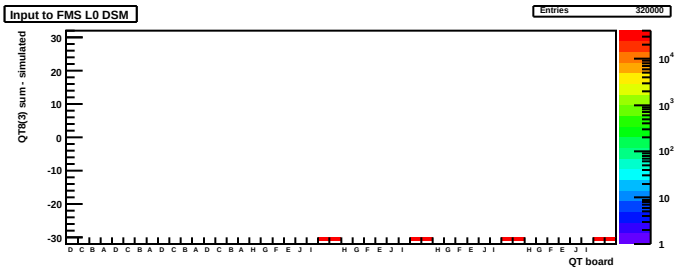

Input to FMS L0 DSM
Entries 1920000
QT8(1) sum
QT board

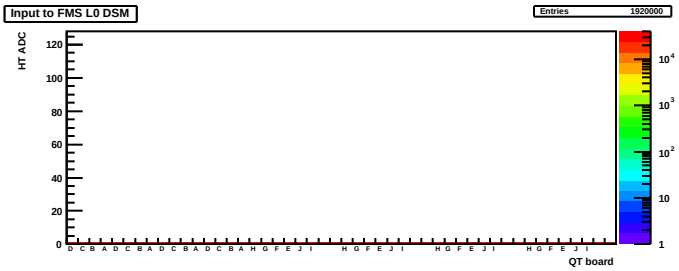

Input to FMS L0 DSM
Entries 320000
QT8(1) sum - simulated
QT board

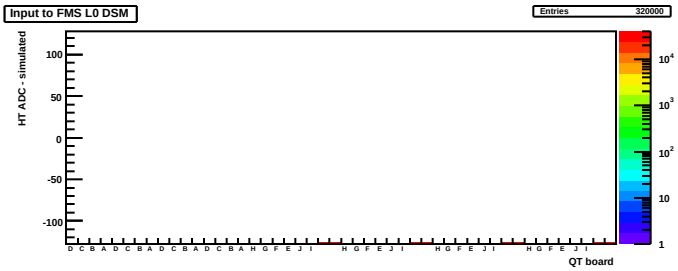

Input to FMS L0 DSM
Entries 1920000
QT8(2) sum
QT board

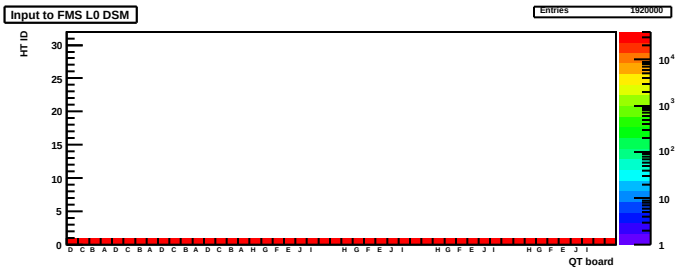

Input to FMS L0 DSM
Entries 320000
QT8(2) sum - simulated
QT board

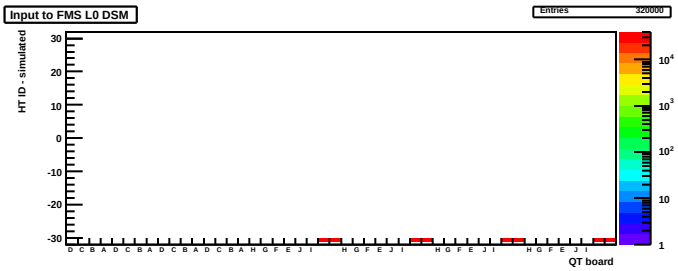

Input to FMS L0 DSM
Entries 1920000
QT8(3) sum
QT board

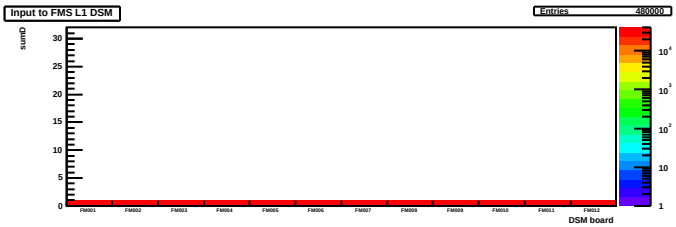

Input to FMS L0 DSM
Entries 320000
QT8(3) sum - simulated
QT board

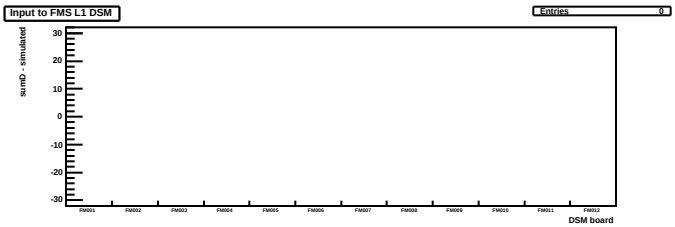

Input to FMS L0 DSM
Entries 1920000
HT ADC
QT board

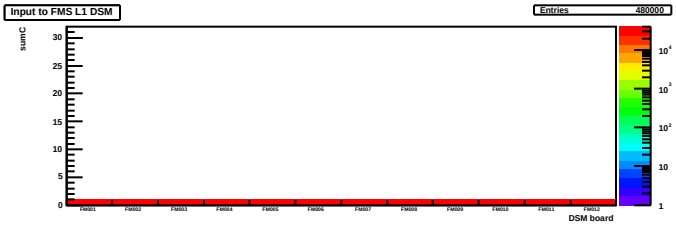

Input to FMS L0 DSM
Entries 320000
HT ADC - simulated
QT board

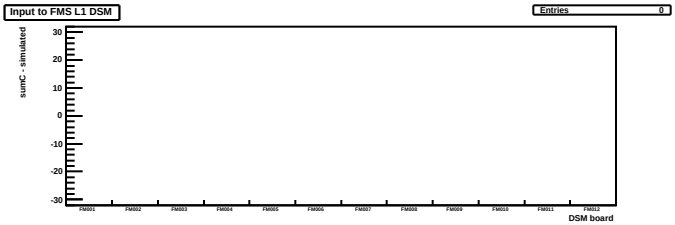

Input to FMS L0 DSM
Entries 1920000
HT ID
QT board

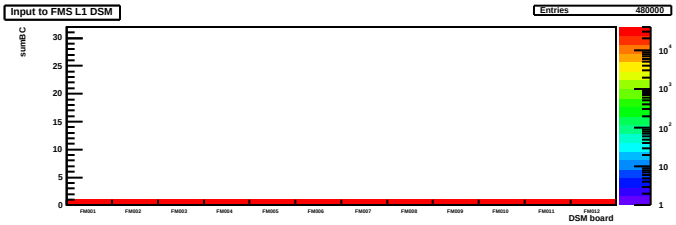

Input to FMS L0 DSM
Entries 320000
HT ID - simulated
QT board

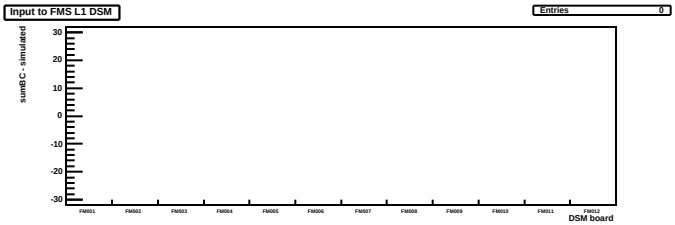

Input to FMS L1 DSM
Entries 480000
sumD
DSM board

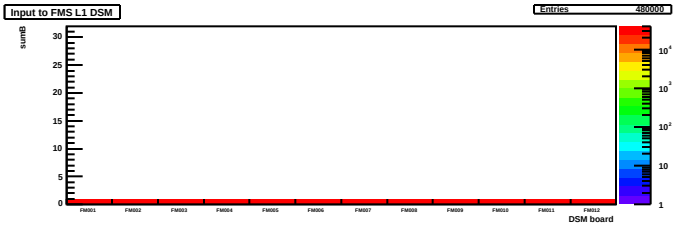

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

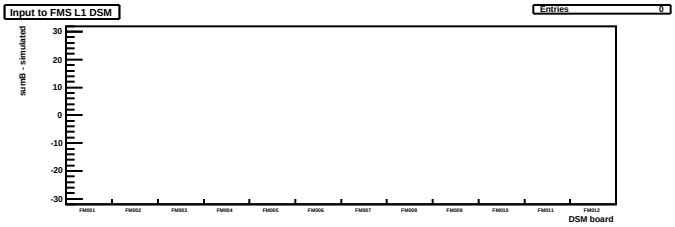

Input to FMS L1 DSM
Entries 480000
sumC
DSM board

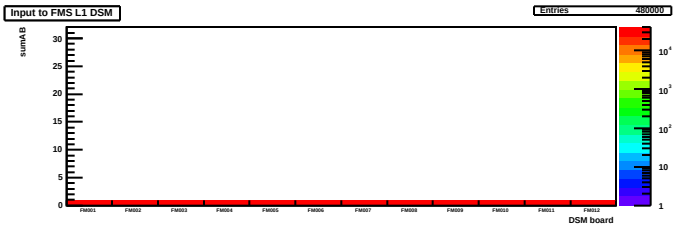

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

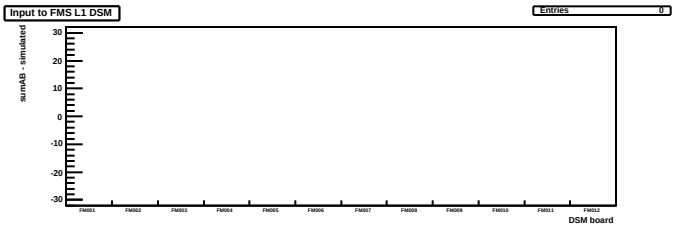

Input to FMS L1 DSM
Entries 480000
sumBC
DSM board

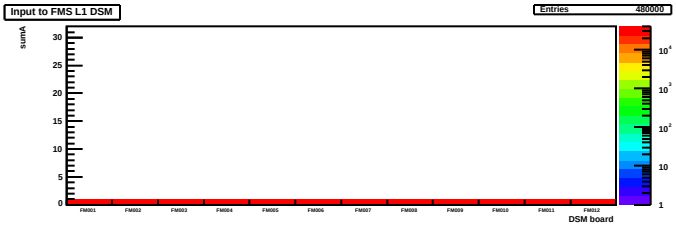

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

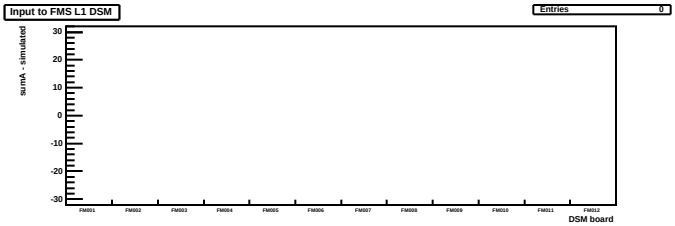

Input to FMS L1 DSM
Entries 480000
sumB
DSM board

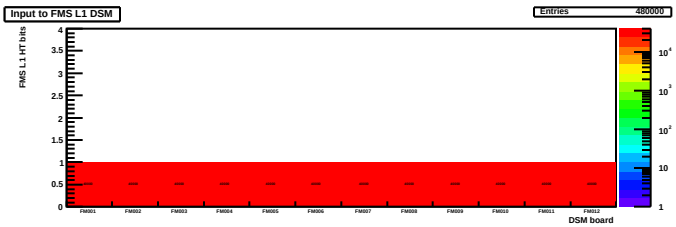

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

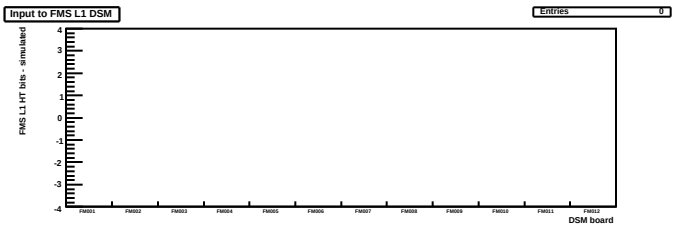

Input to FMS L1 DSM
Entries 480000
sumAB
DSM board

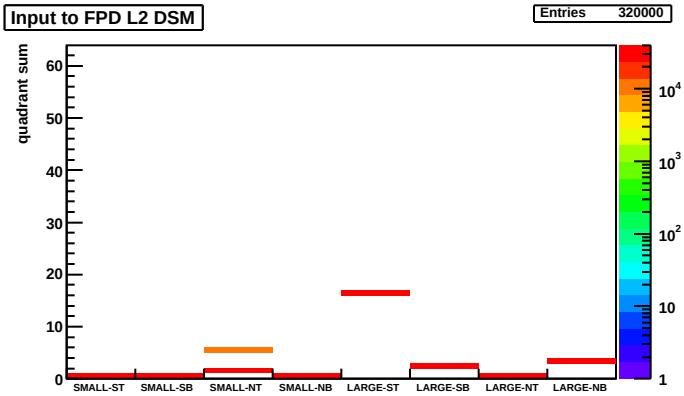

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

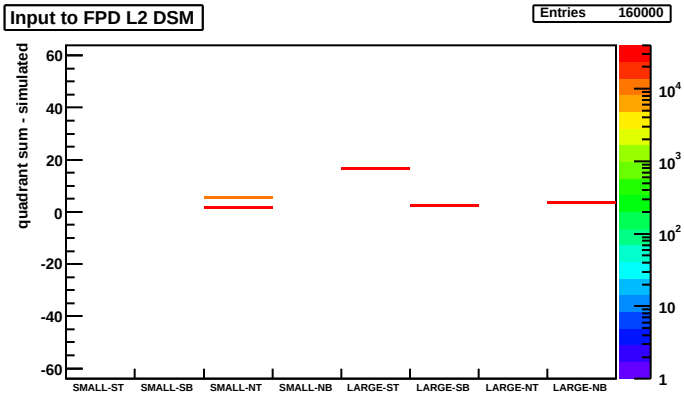

Input to FMS L1 DSM
Entries 480000
sumA
DSM board

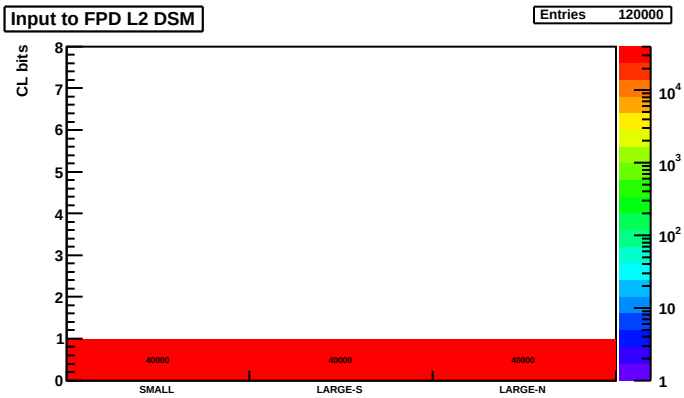

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

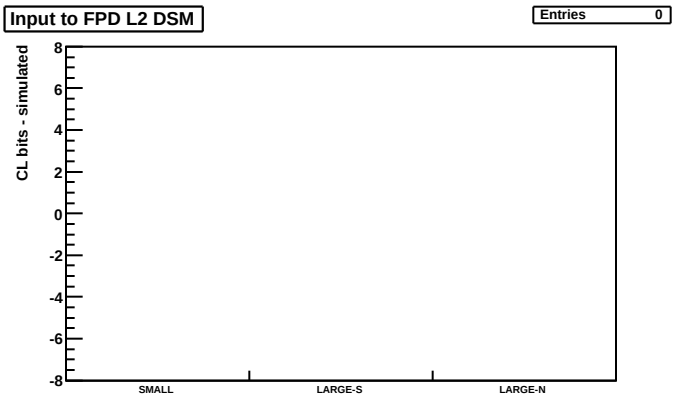

Input to FMS L1 DSM
Entries 480000
FMS L1 HT bits
DSM board

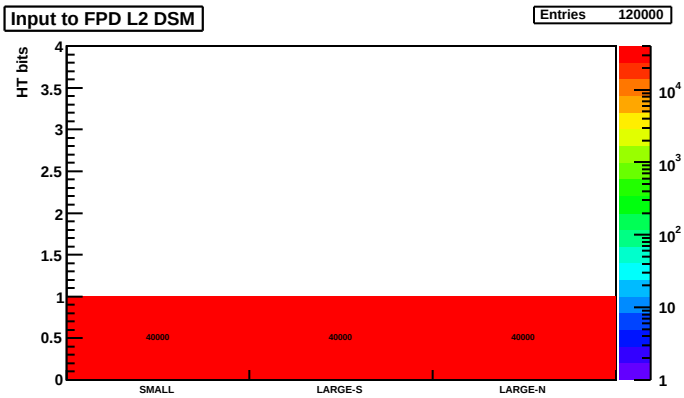

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

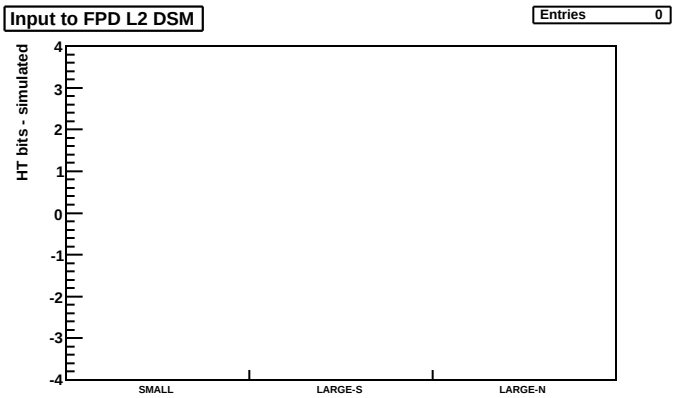

Input to FPD L2 DSM
Entries 320000
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

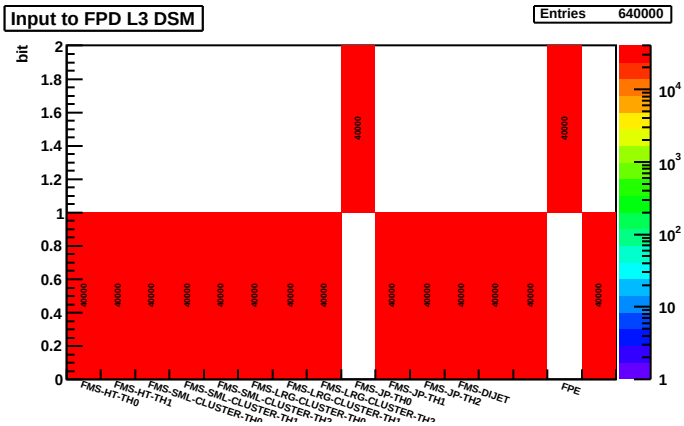

Input to FPD L2 DSM
Entries 160000
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

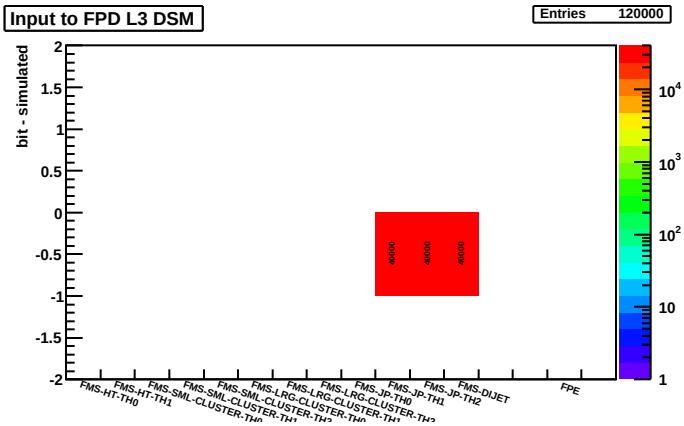

Input to FPD L2 DSM
Entries 120000
CL bits
40000
40000
40000
SMALL
LARGE-S
LARGE-N

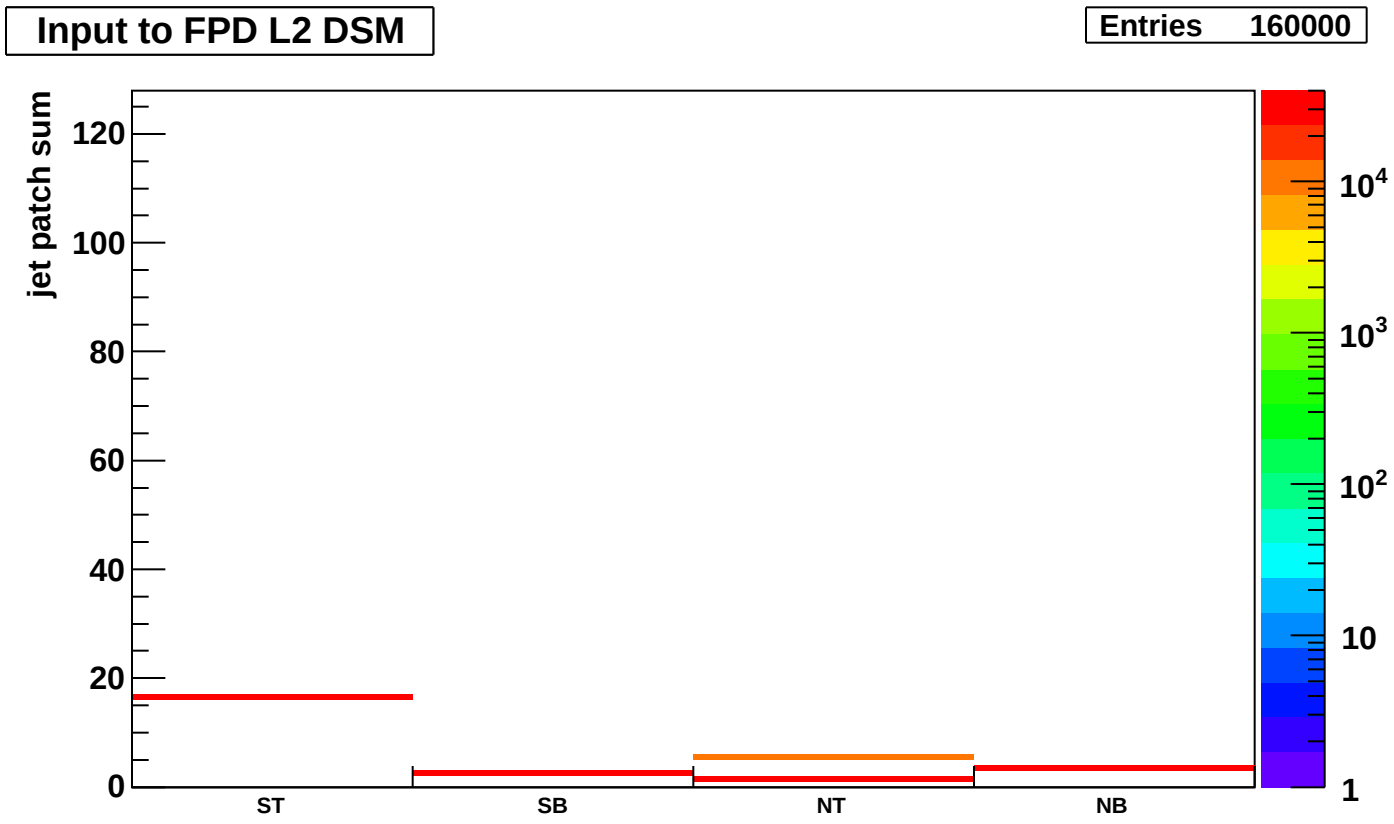

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

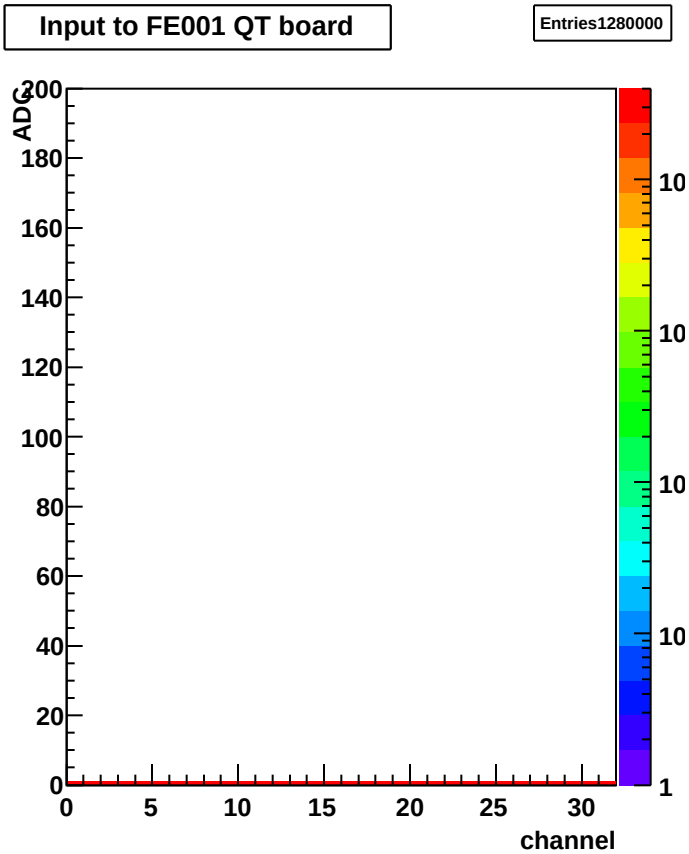

Input to FPD L2 DSM
Entries 120000
HT bits
40000
40000
40000
SMALL
LARGE-S
LARGE-N

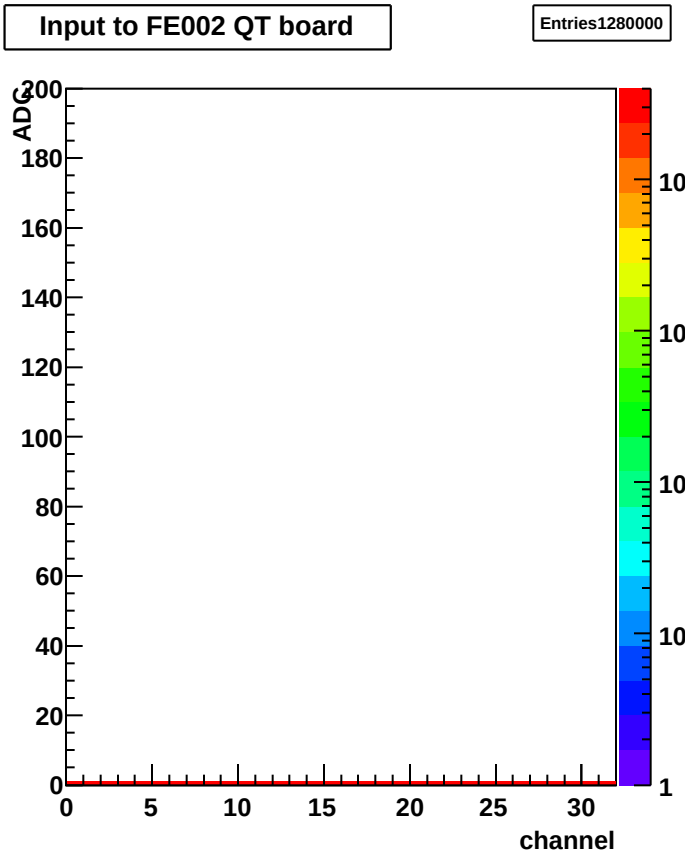

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

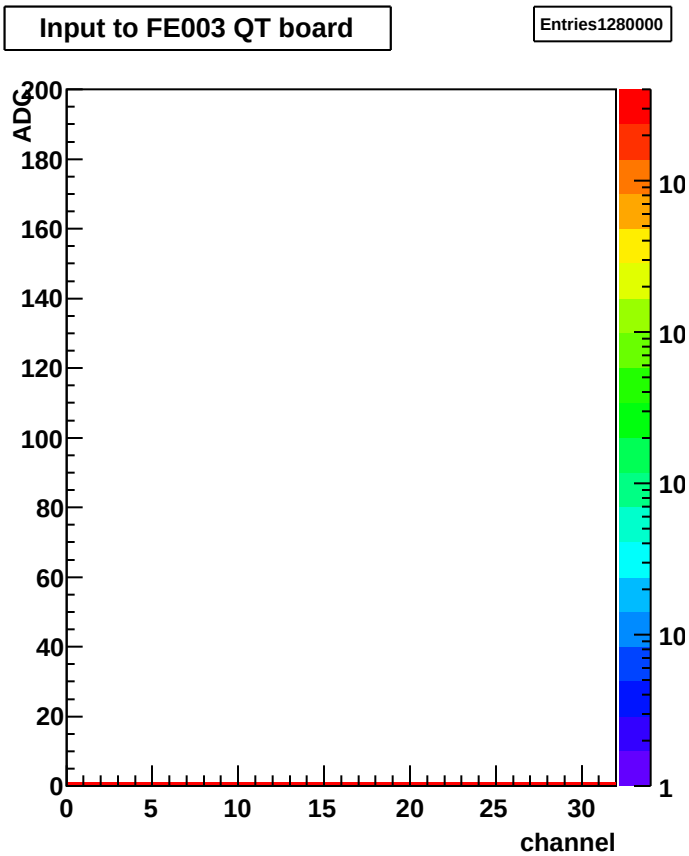

Input to FPD L3 DSM
Entries 640000
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

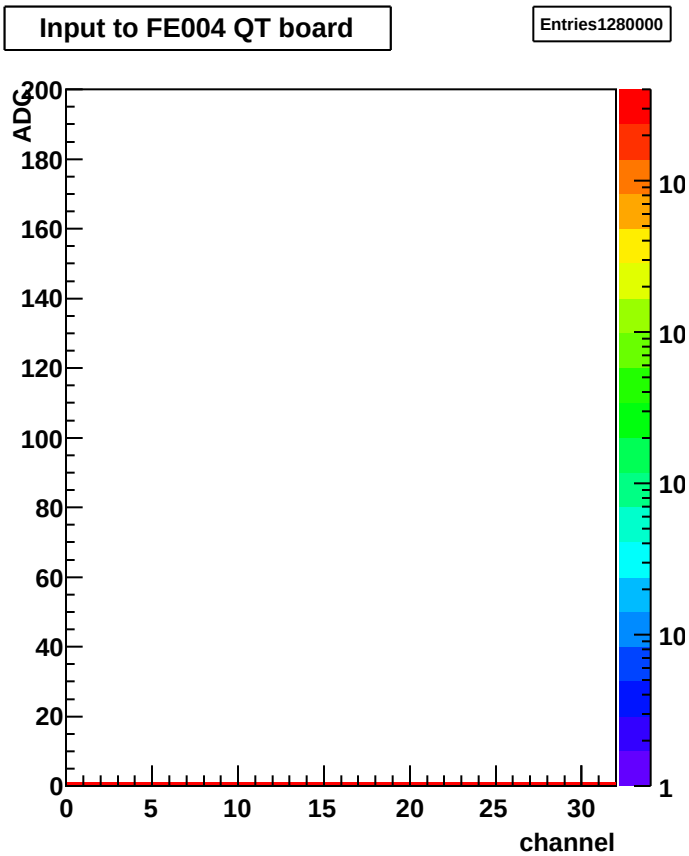

Input to FPD L3 DSM
Entries 120000
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

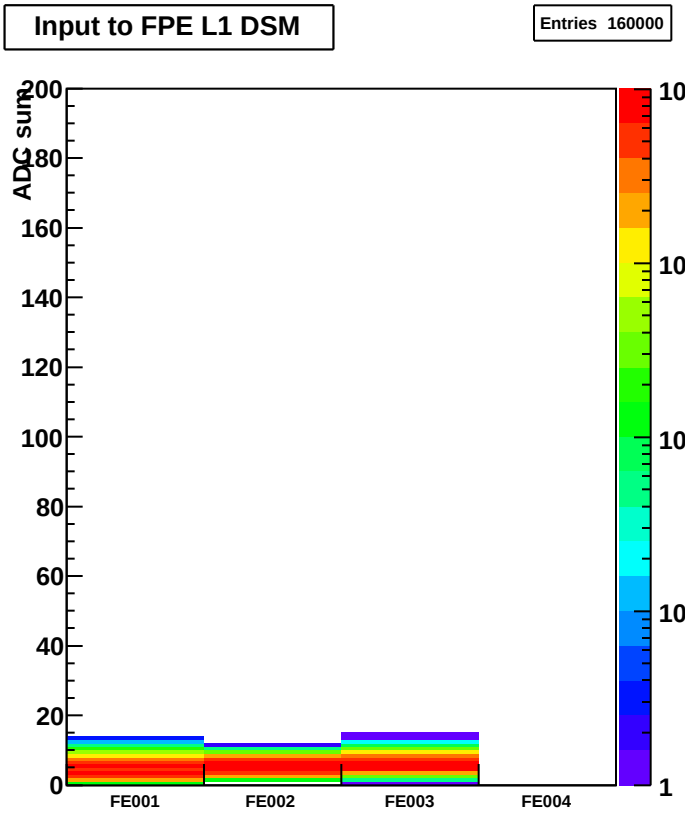

Input to FPD L2 DSM
Entries 160000
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^4
10^3
10^2
10
1

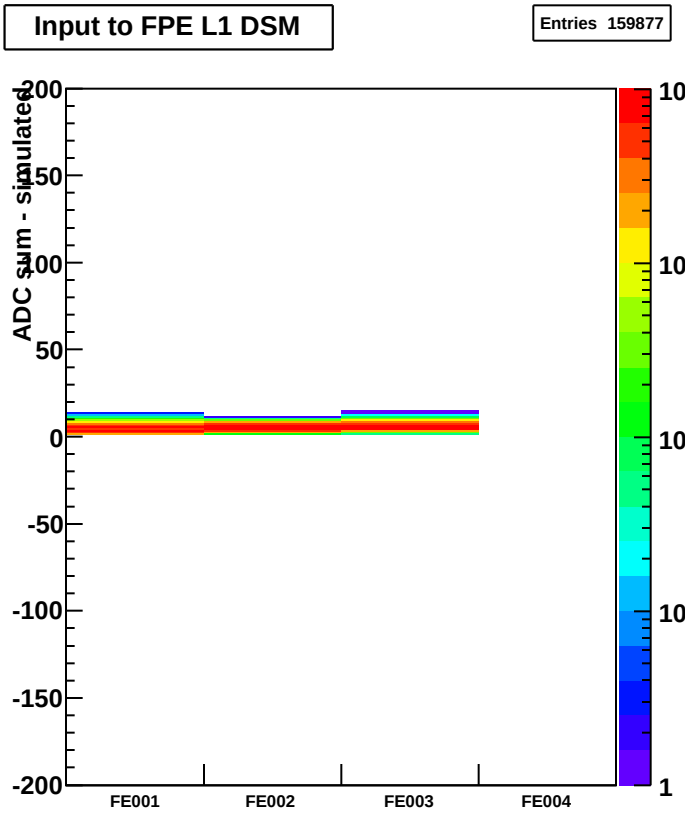

Input to FE001 QT board
Entries1280000
ADC
channel

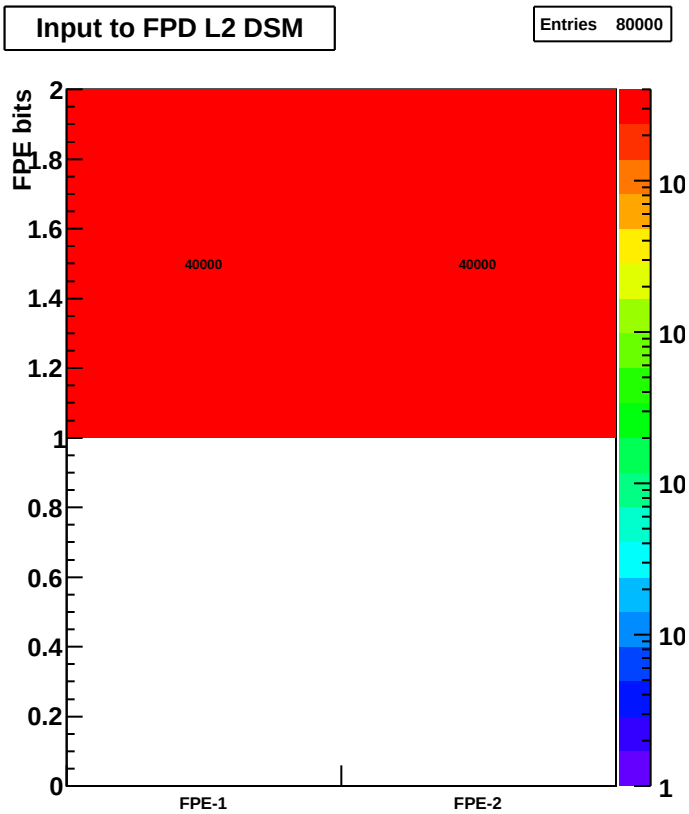

Input to FE002 QT board
Entries1280000
ADC
channel

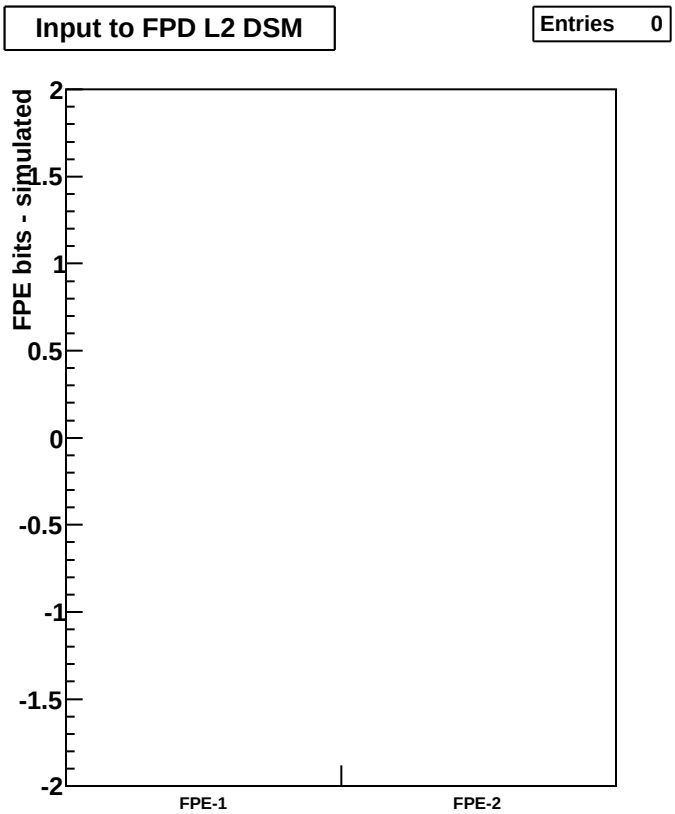

Input to FE003 QT board
Entries1280000
ADC
channel


Input to FE004 QT board
Entries1280000
ADC
channel


Input to FPE L1 DSM
Entries 160000
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 159877
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 80000
FPE bits
40000
40000
FPE-1
FPE-2


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