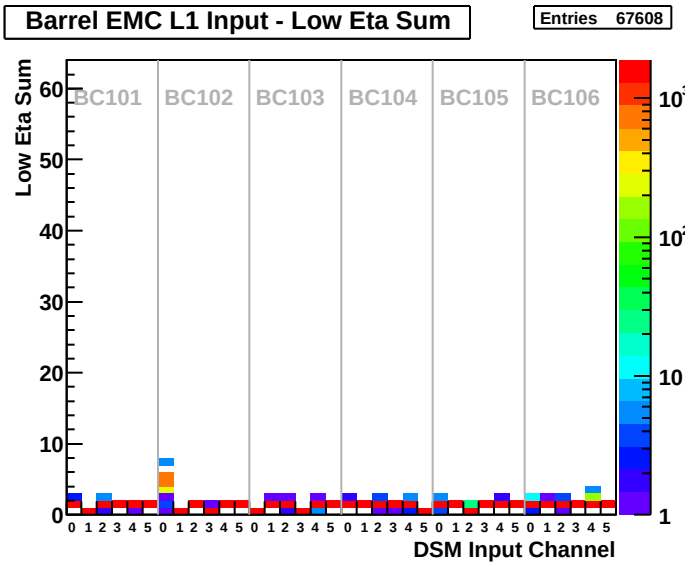
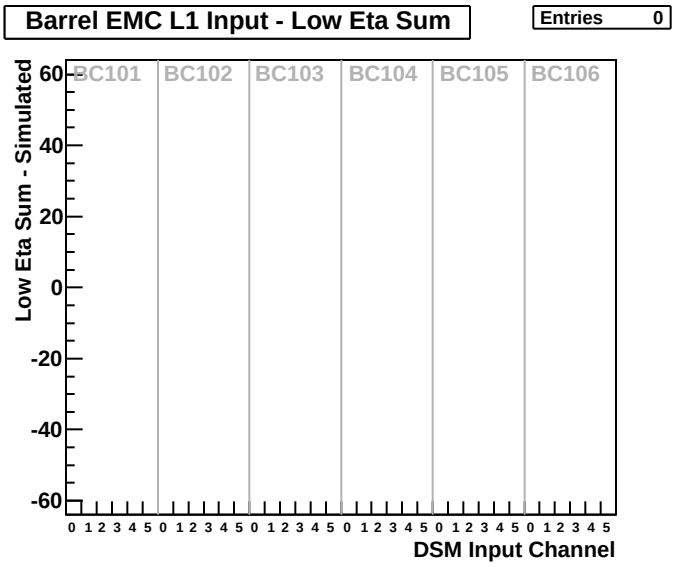
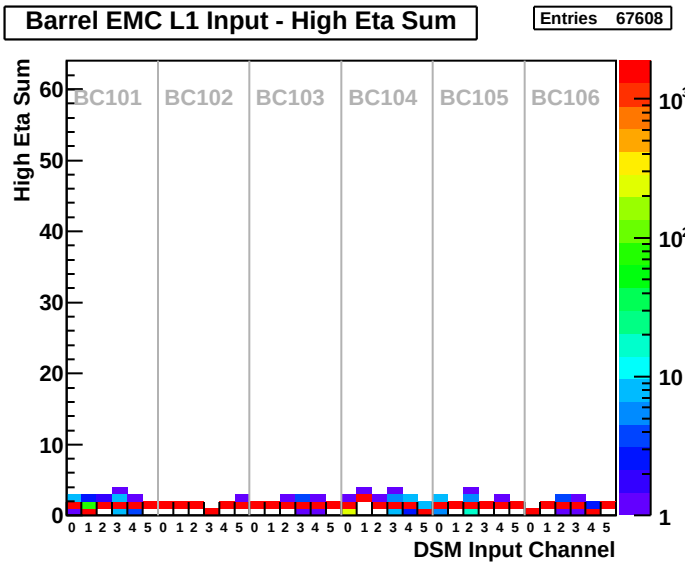
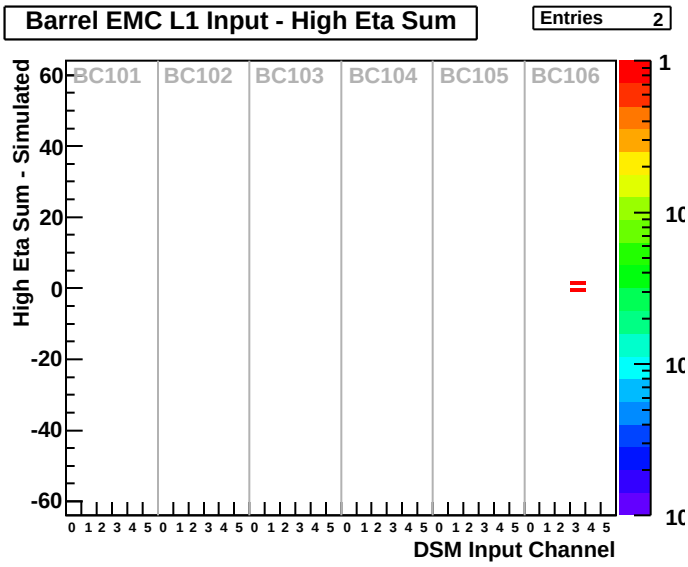
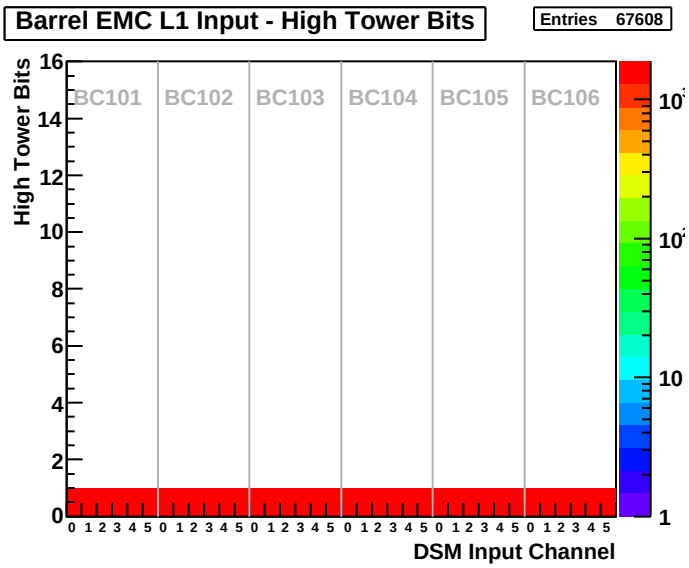
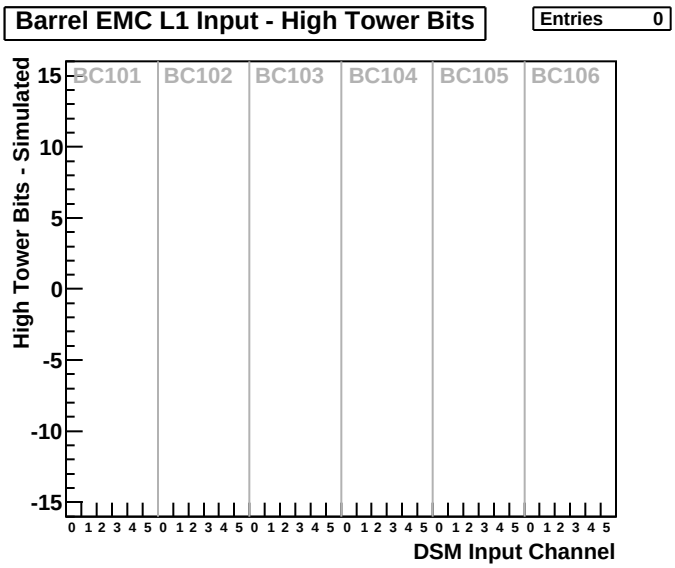

Barrel EMC L1 Input - Low Eta Sum
Entries 67608
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

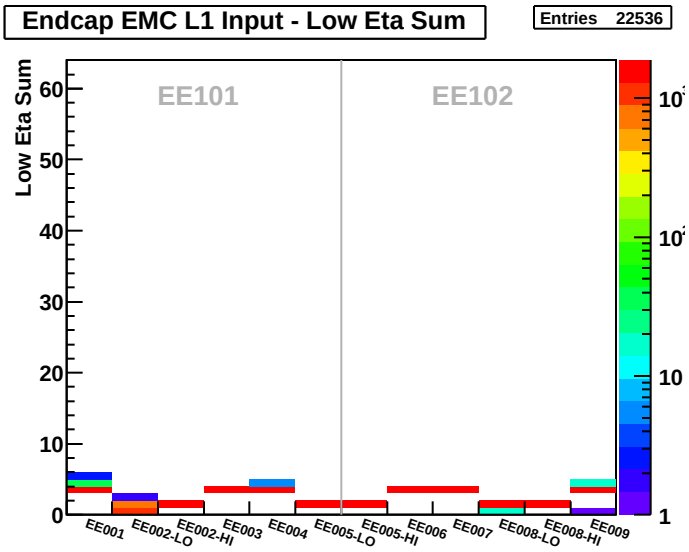

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

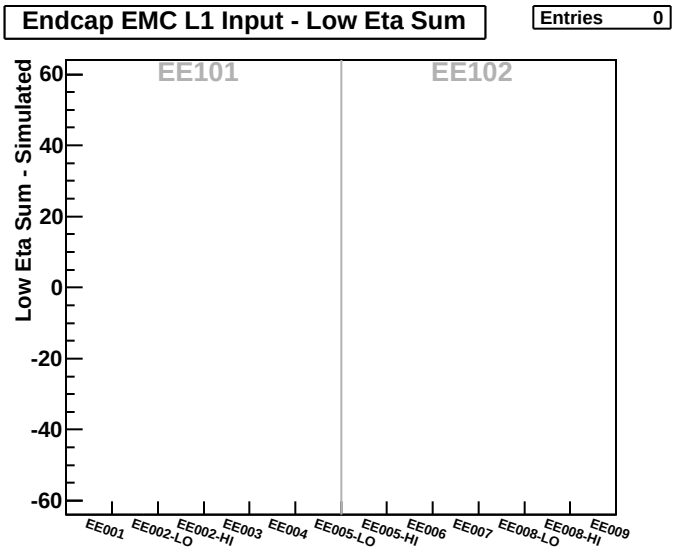

Barrel EMC L1 Input - High Eta Sum
Entries 67608
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

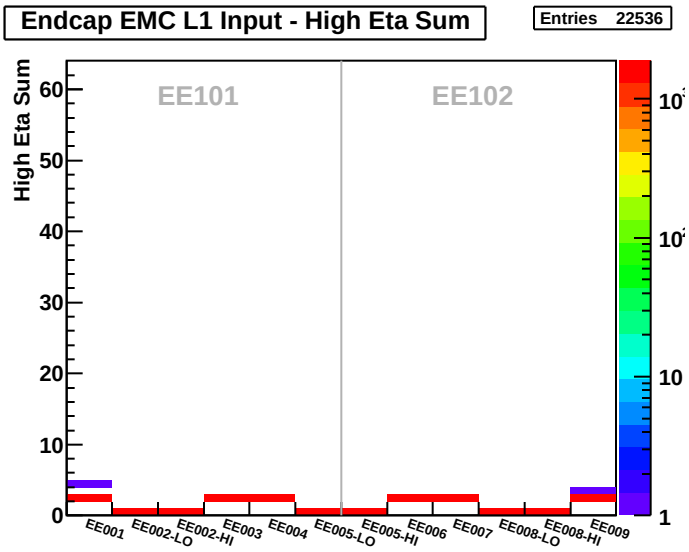

Barrel EMC L1 Input - High Eta Sum
Entries 2
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

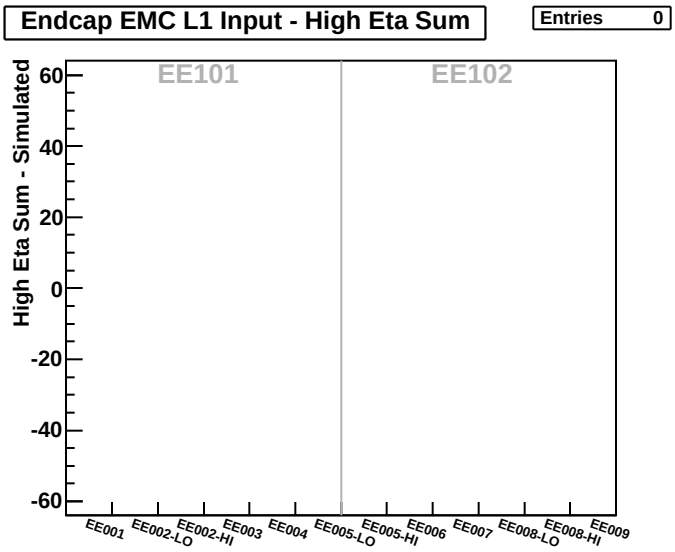

Barrel EMC L1 Input - High Tower Bits
Entries 67608
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

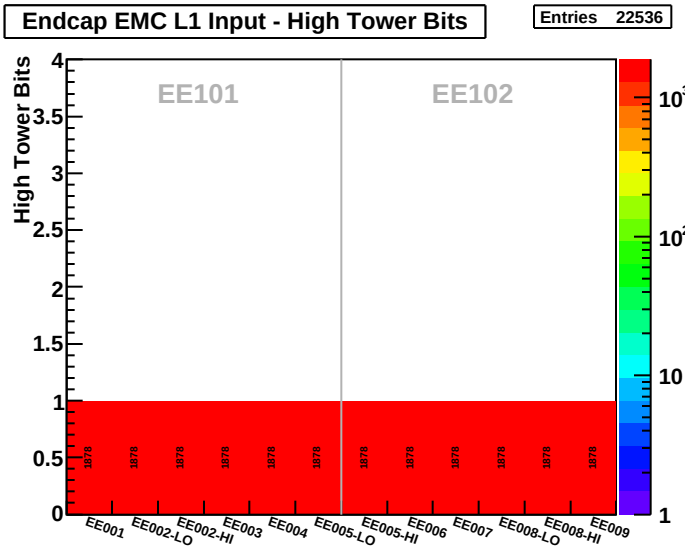

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

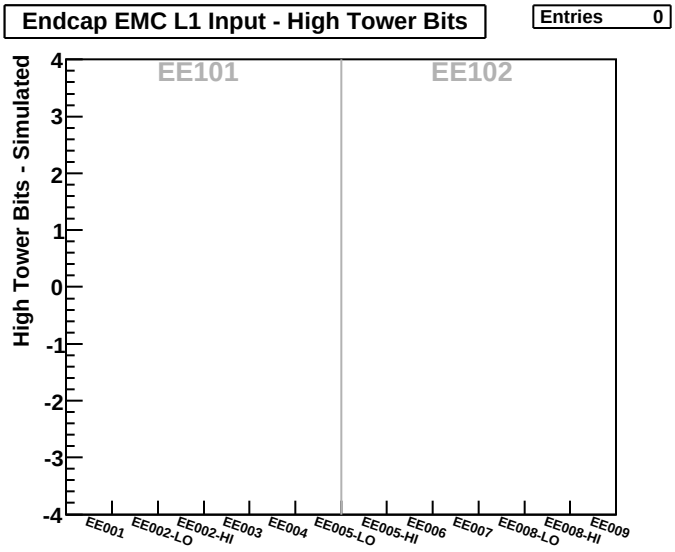

Endcap EMC L1 Input - Low Eta Sum
Entries 22536
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

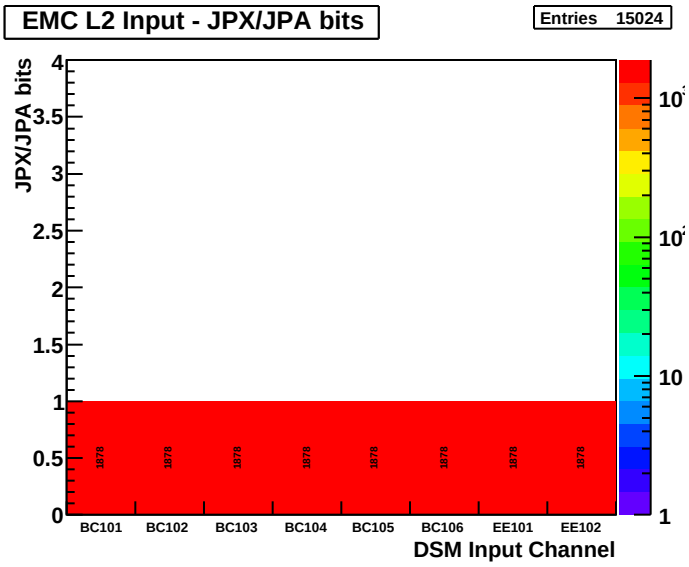

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

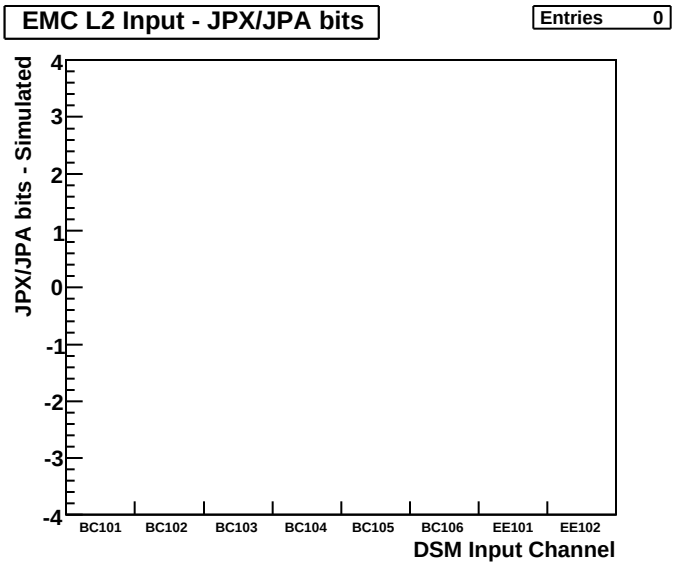

Endcap EMC L1 Input - High Eta Sum
Entries 22536
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

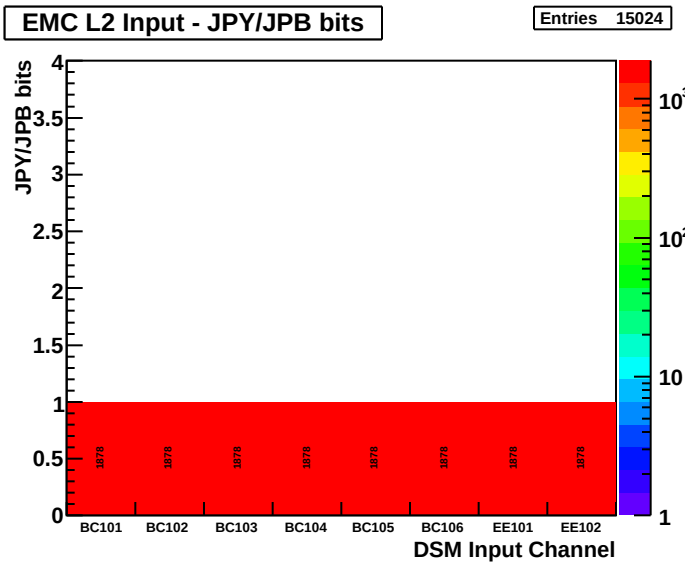

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

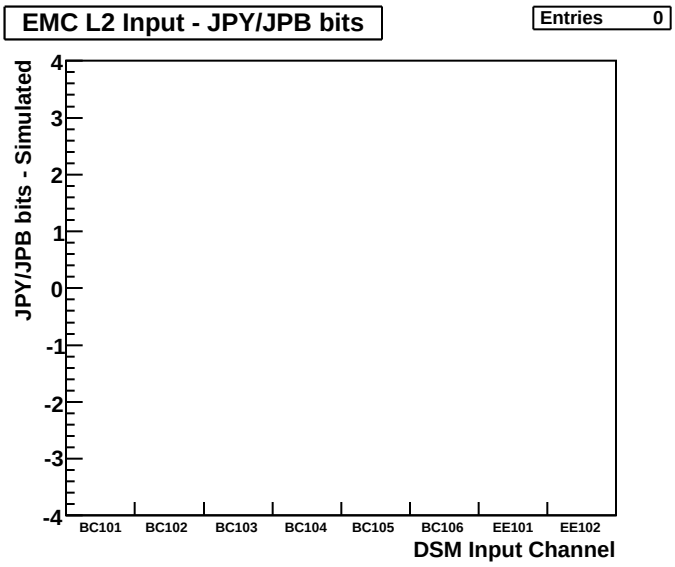

Endcap EMC L1 Input - High Tower Bits
Entries 22536
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

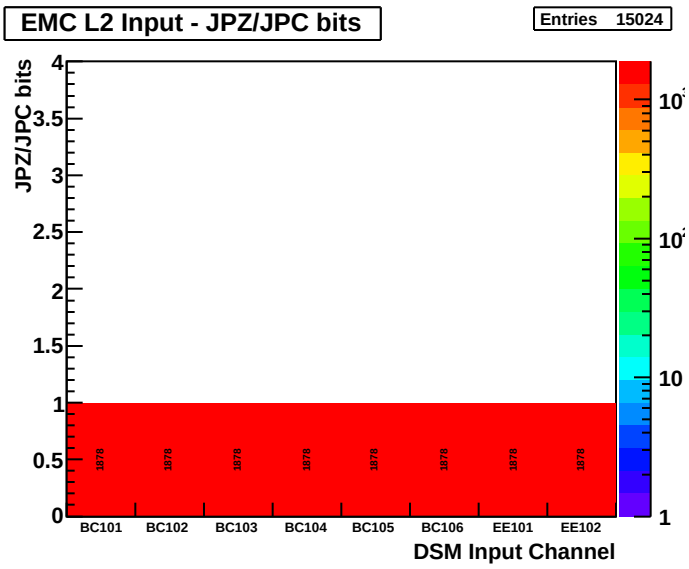

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

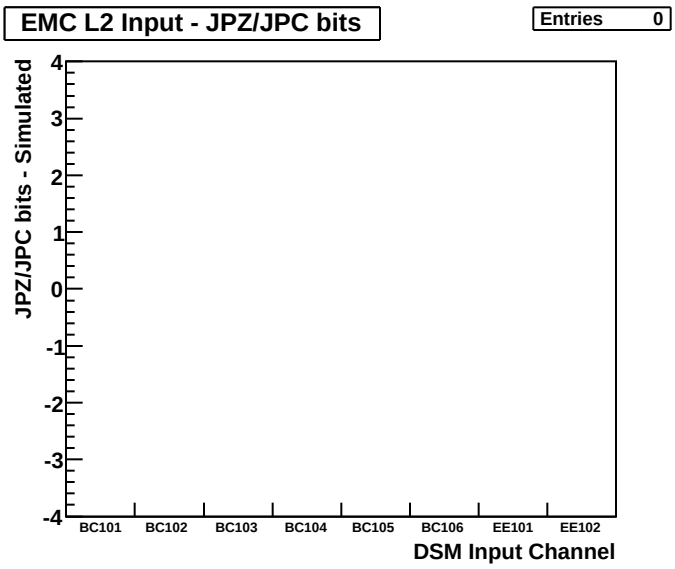

EMC L2 Input - JPX/JPA bits
Entries 15024
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

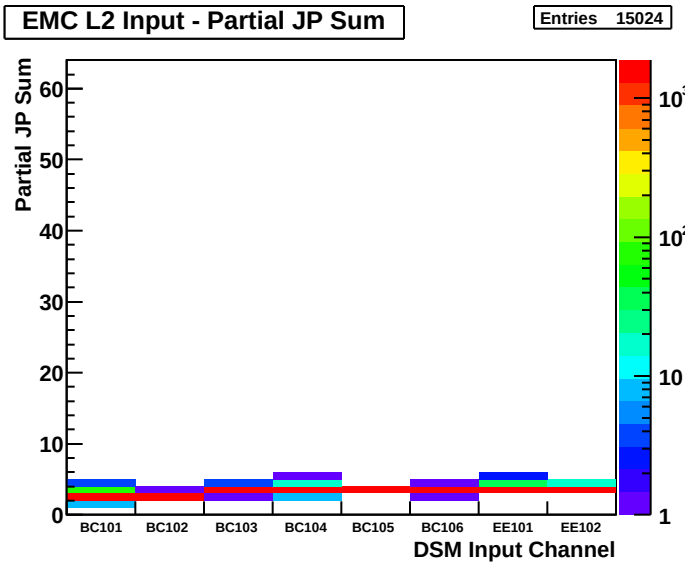

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

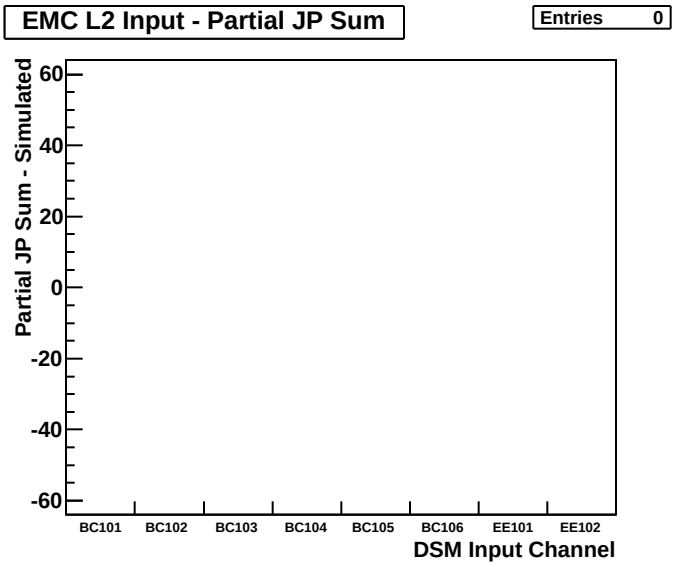

EMC L2 Input - JPY/JPB bits
Entries 15024
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

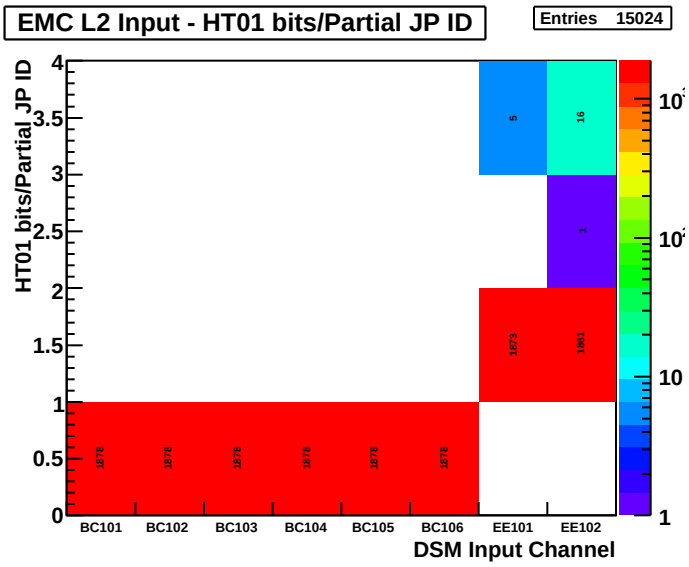

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

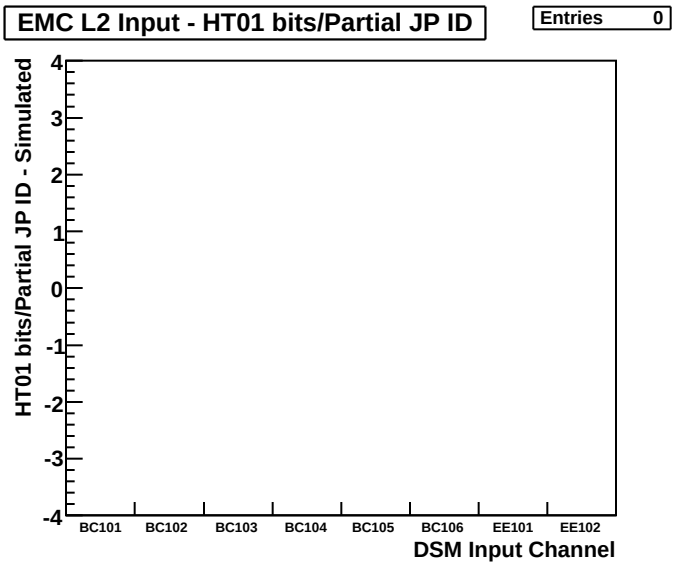

EMC L2 Input - JPZ/JPC bits
Entries 15024
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

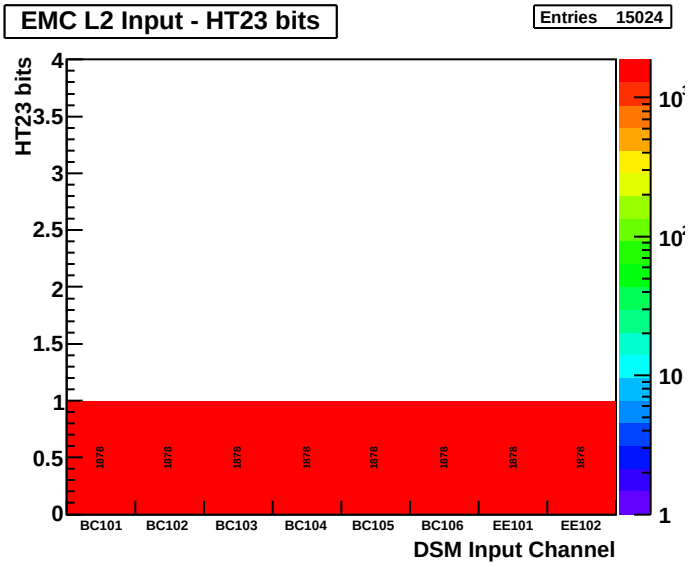

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

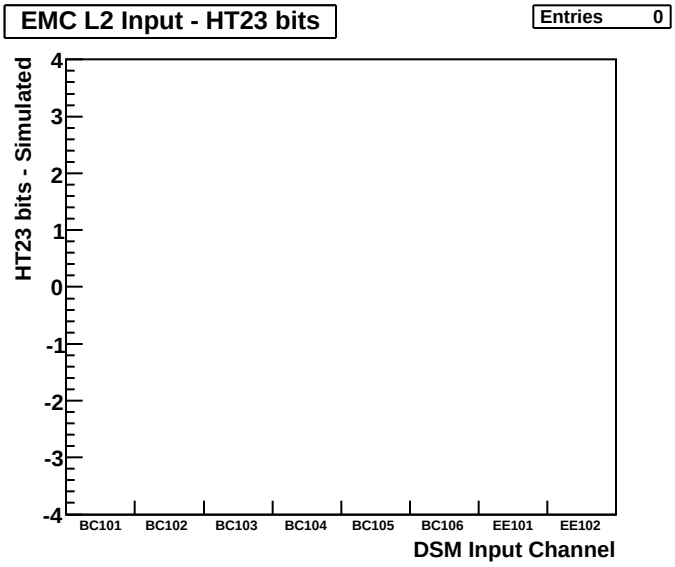

EMC L2 Input - Partial JP Sum
Entries 15024
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

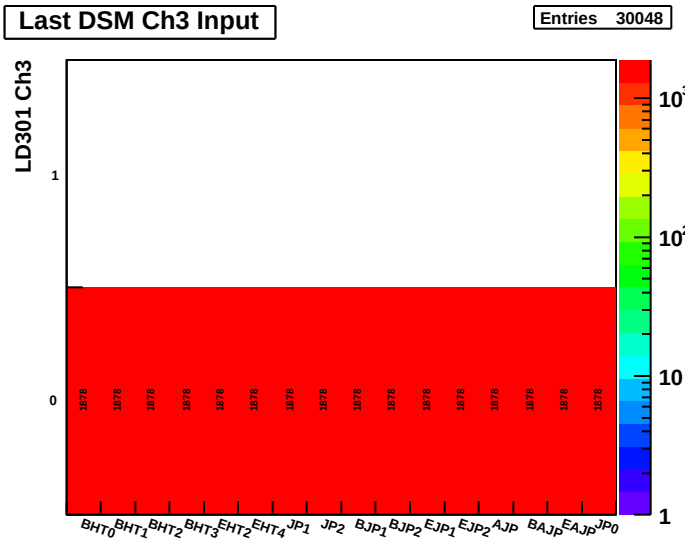

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

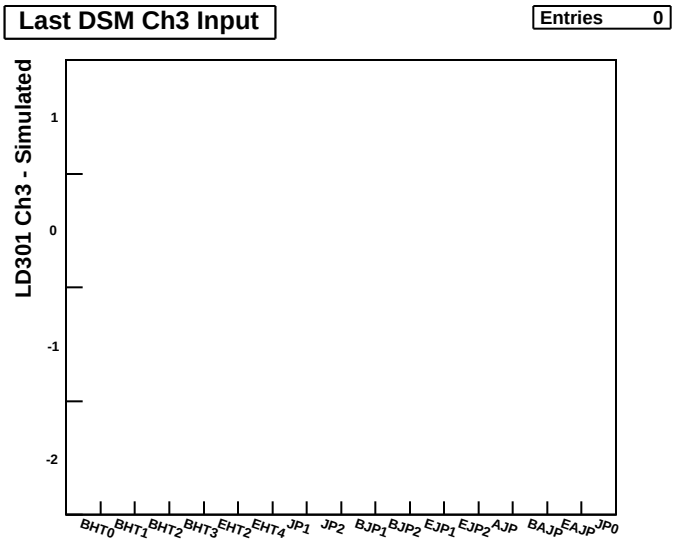

EMC L2 Input - HT01 bits/Partial JP ID
Entries 15024
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

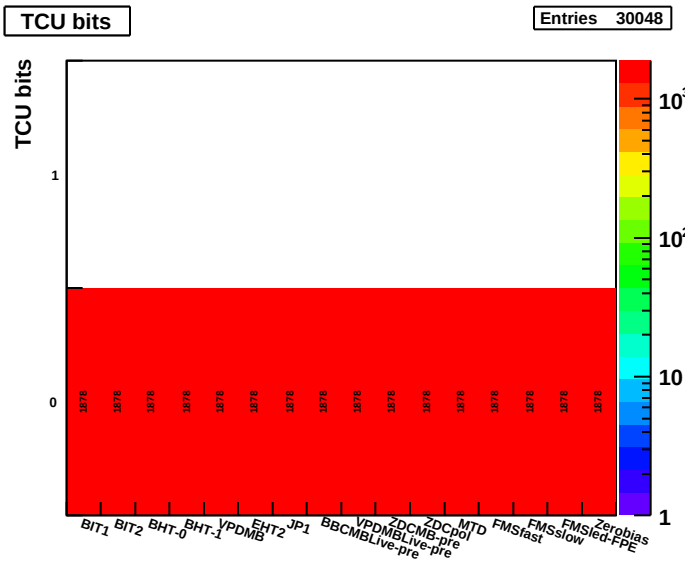

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

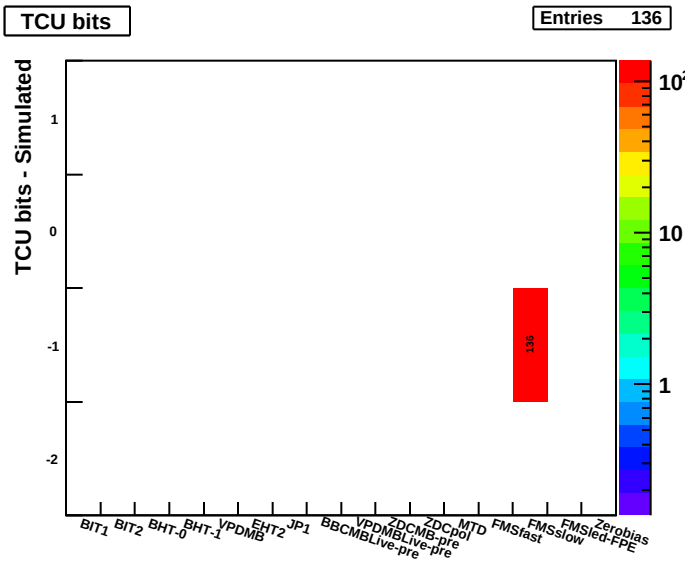

EMC L2 Input - HT23 bits
Entries 15024
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

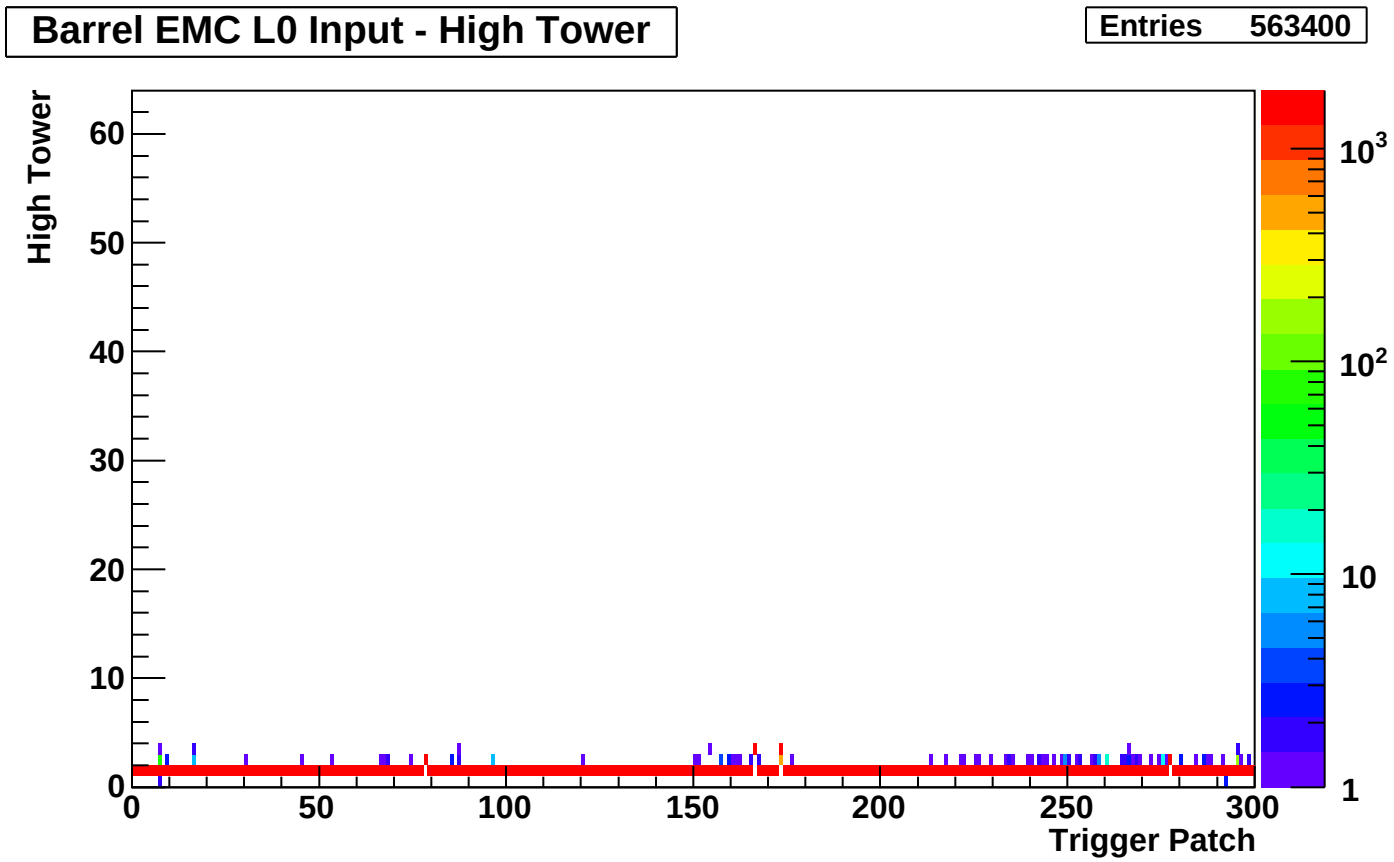

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

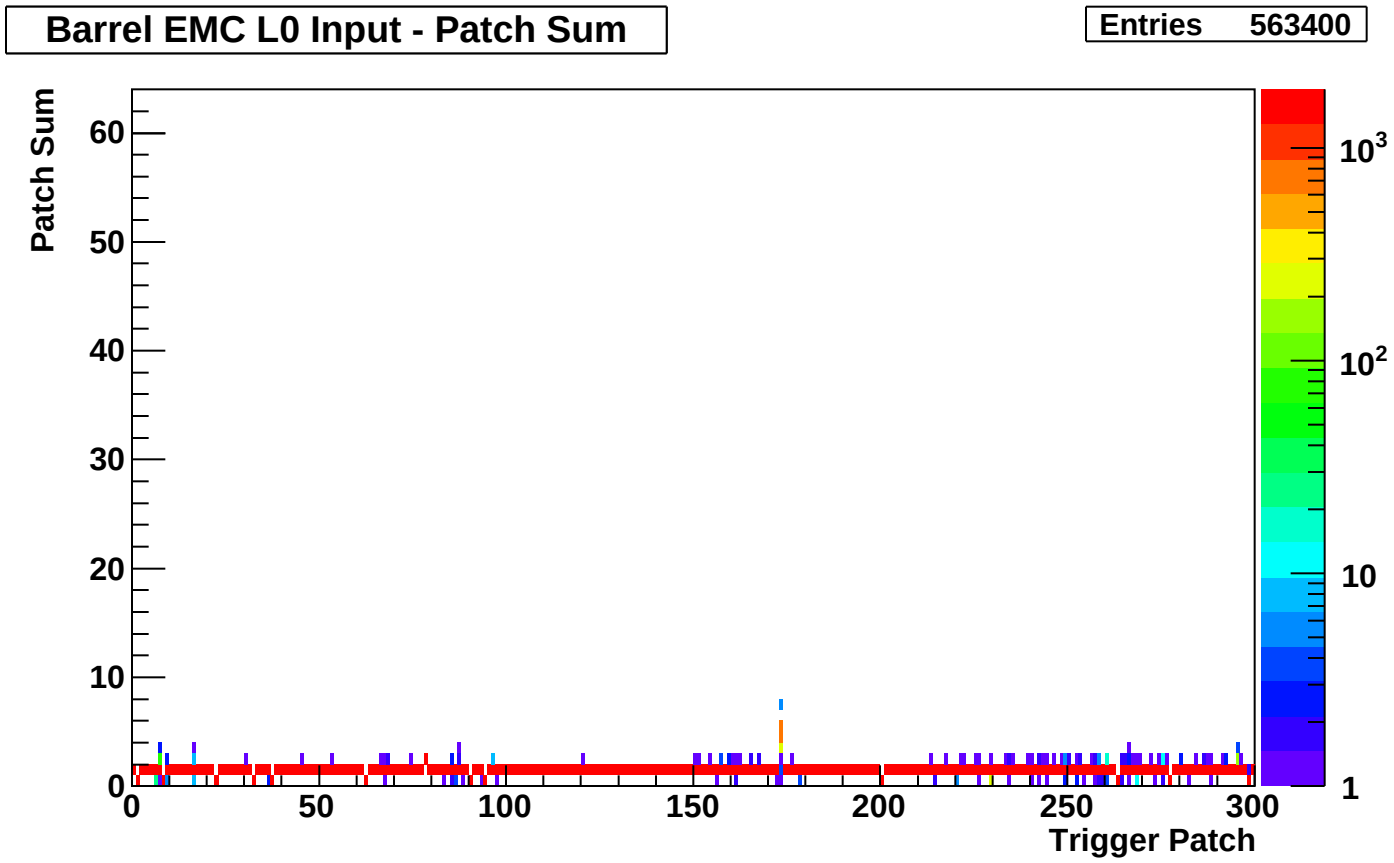

Last DSM Ch3 Input
Entries 30048
LD301 Ch3
1
0
1878
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0
10
1

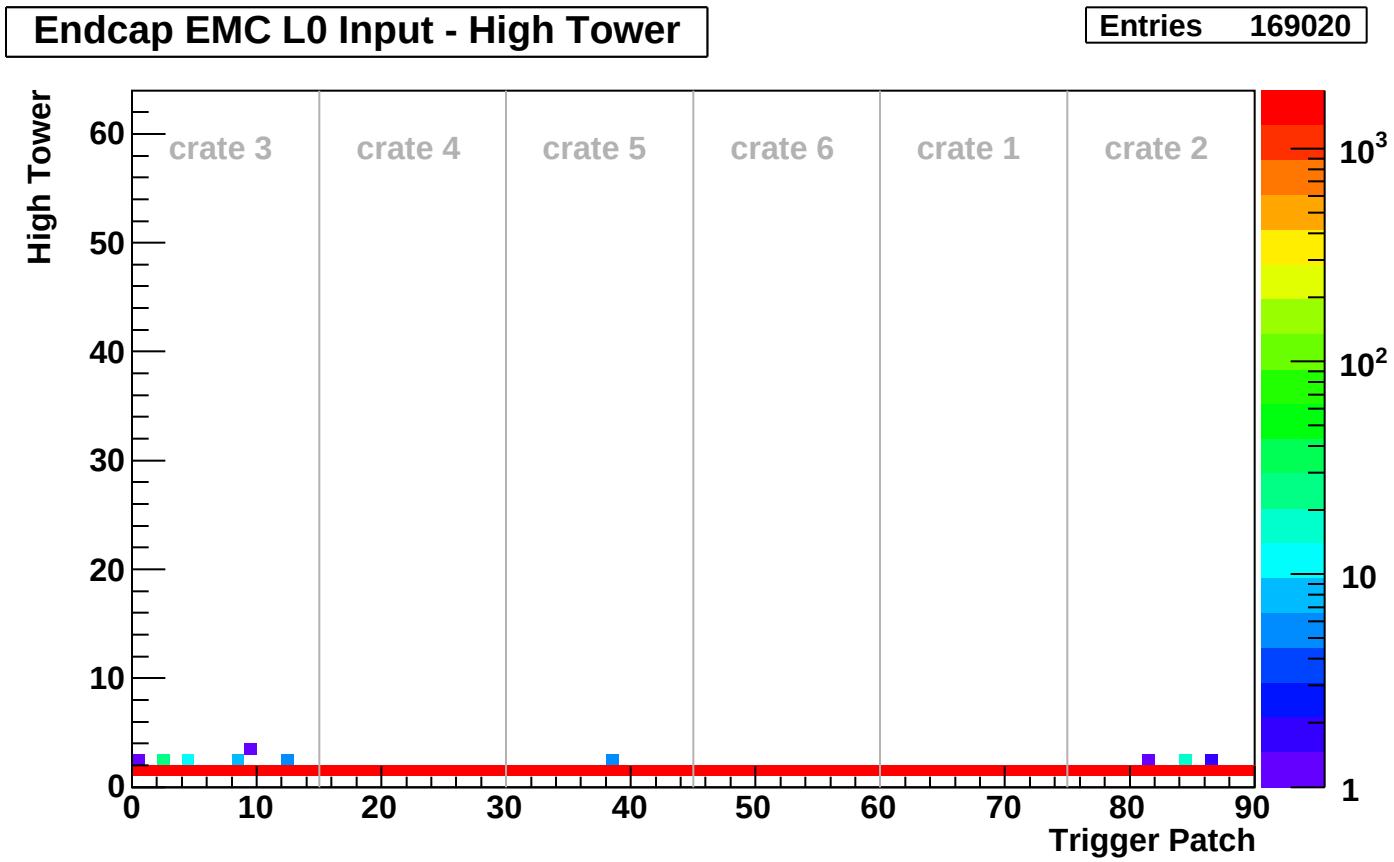

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
1
0
-1
-2
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

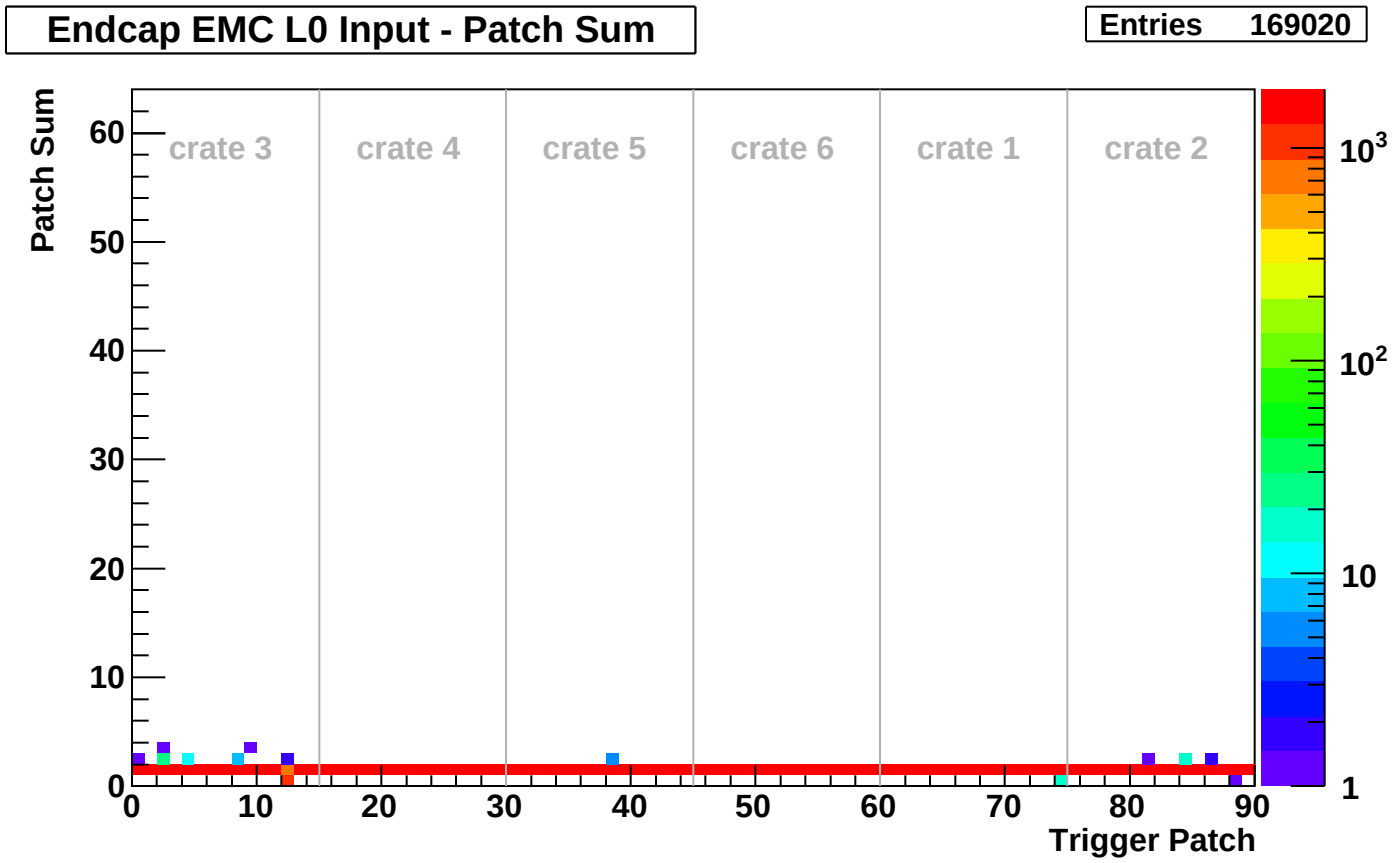

TCU bits
Entries 30048
TCU bits
1
0
1878
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

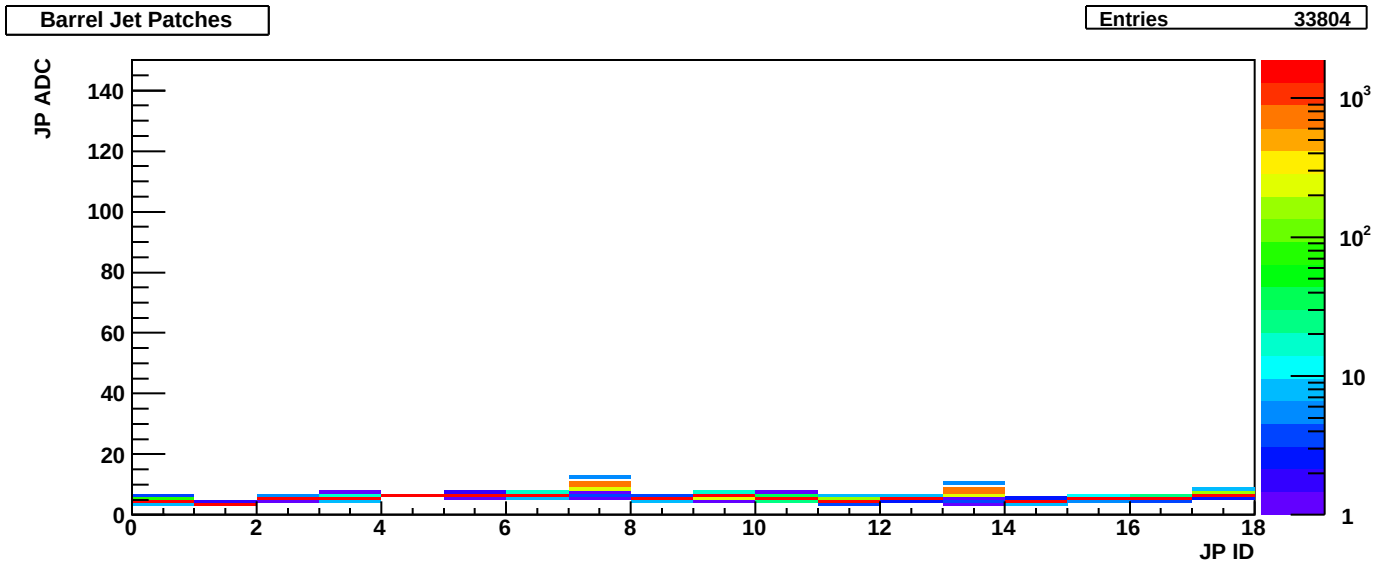

TCU bits
Entries 136
TCU bits - Simulated
1
0
-1
-2
136
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

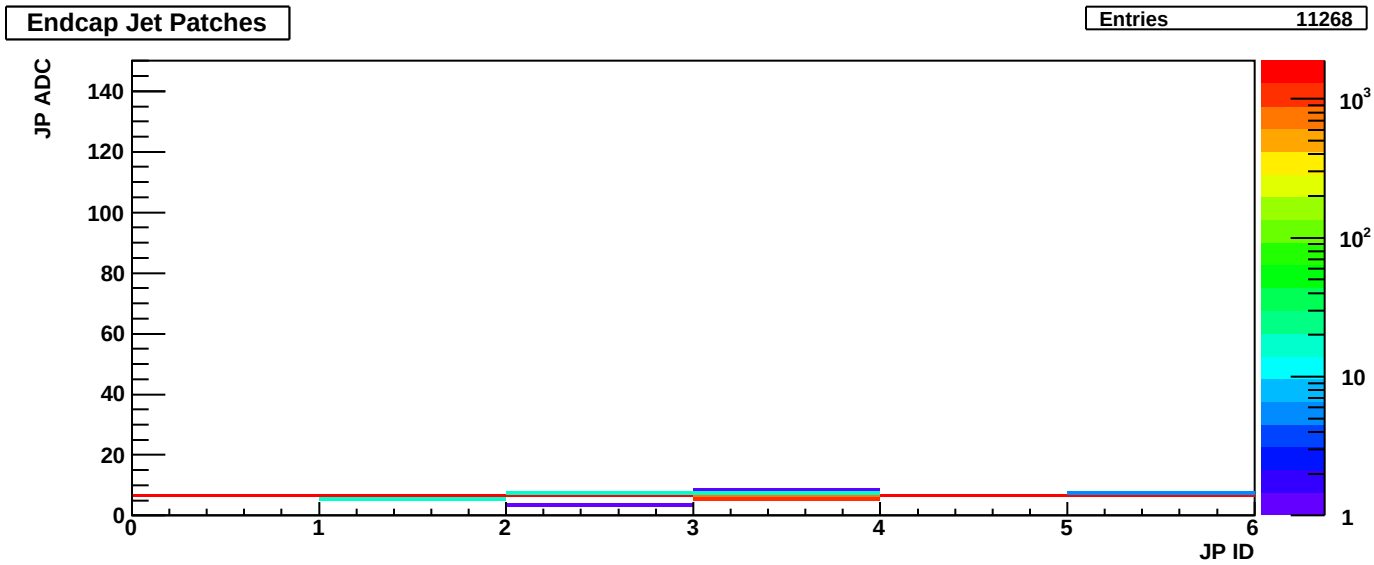

Barrel EMC L0 Input - High Tower
Entries 563400
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

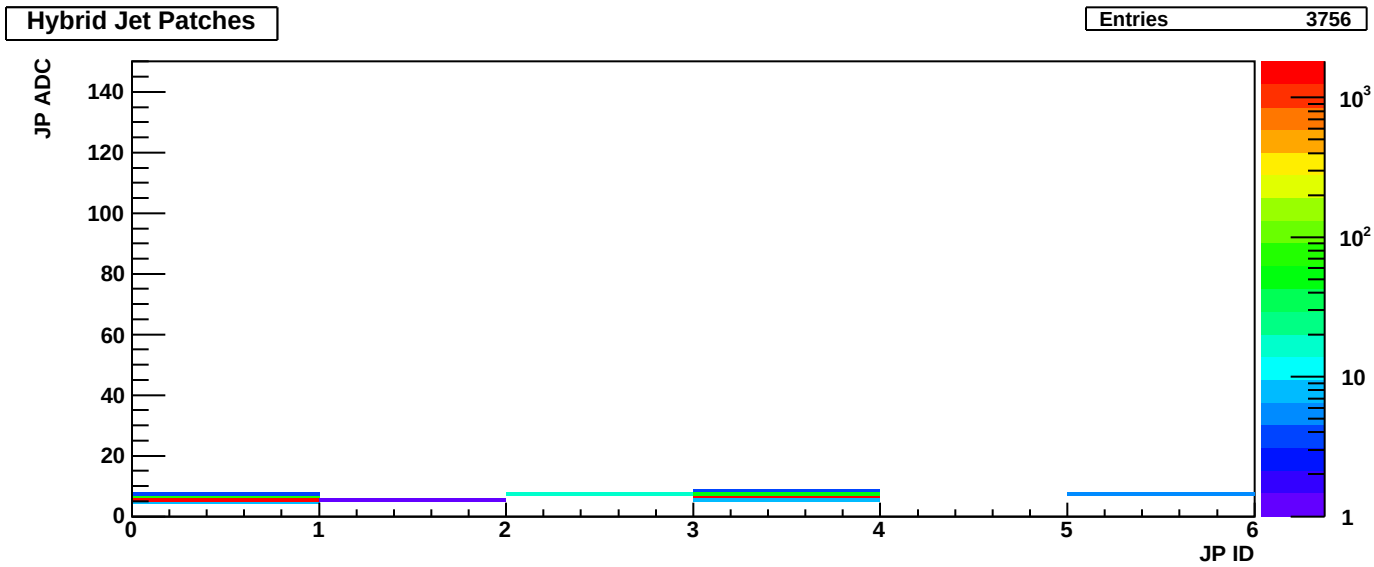

Barrel EMC L0 Input - Patch Sum
Entries 563400
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

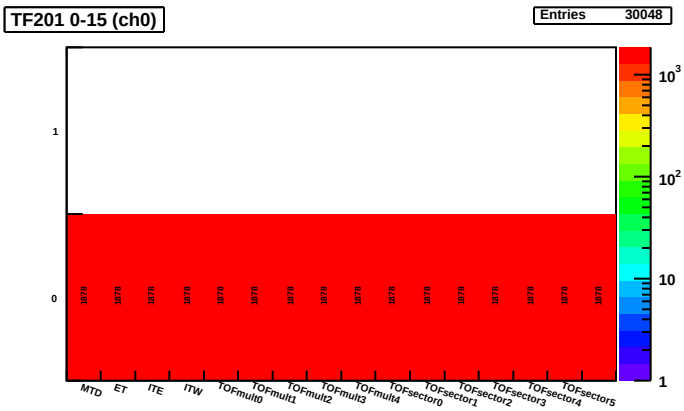

Endcap EMC L0 Input - High Tower
Entries 169020
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

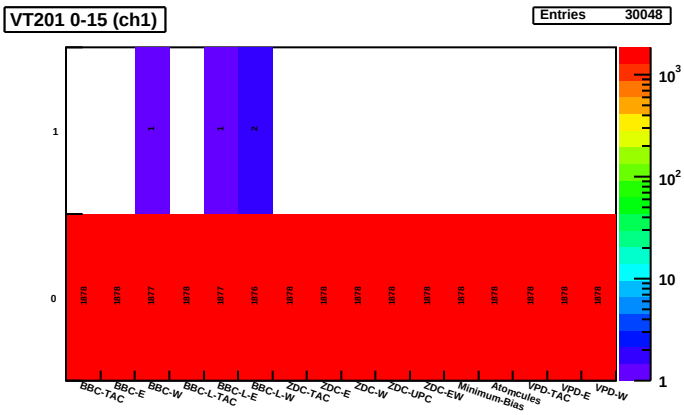

Endcap EMC L0 Input - Patch Sum
Entries 169020
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

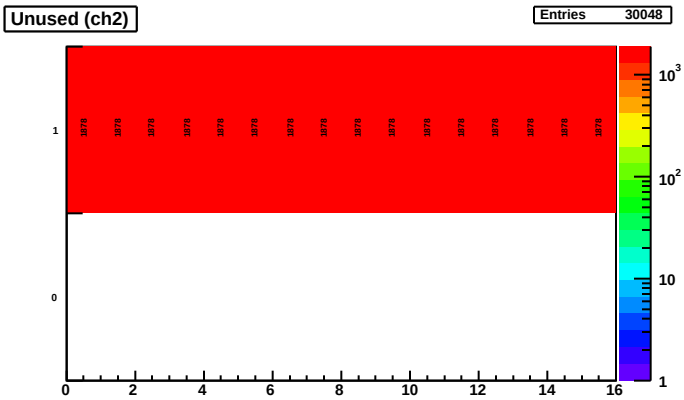

Barrel Jet Patches
Entries 33804
JP ADC
JP ID

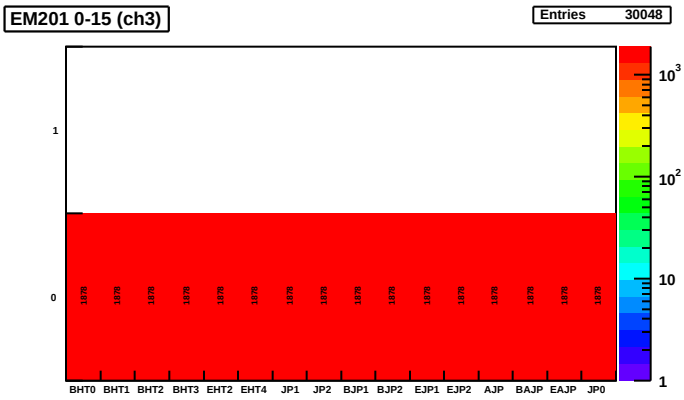

Endcap Jet Patches
Entries 11268
JP ADC
JP ID

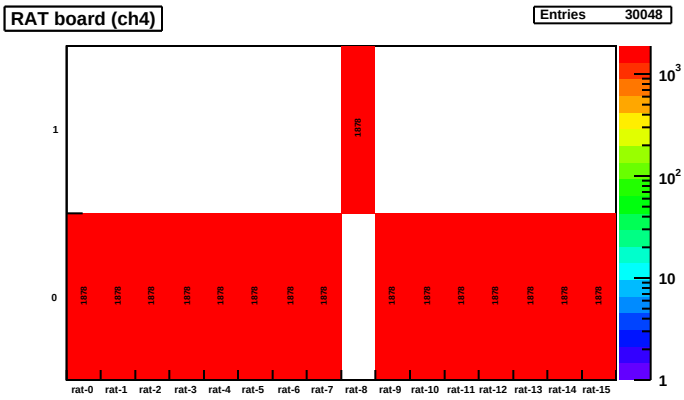

Hybrid Jet Patches
Entries 3756
JP ADC
JP ID

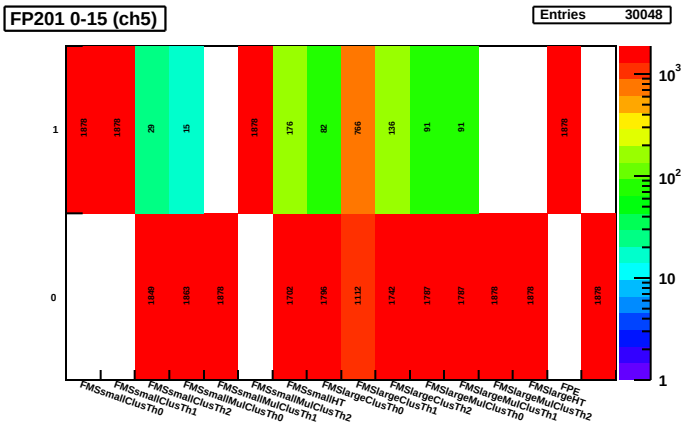

TF201 0-15 (ch0)
Entries 30048
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

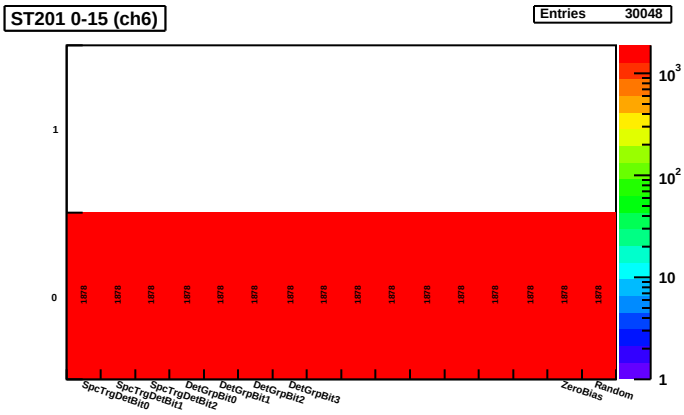

VT201 0-15 (ch1)
Entries 30048
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

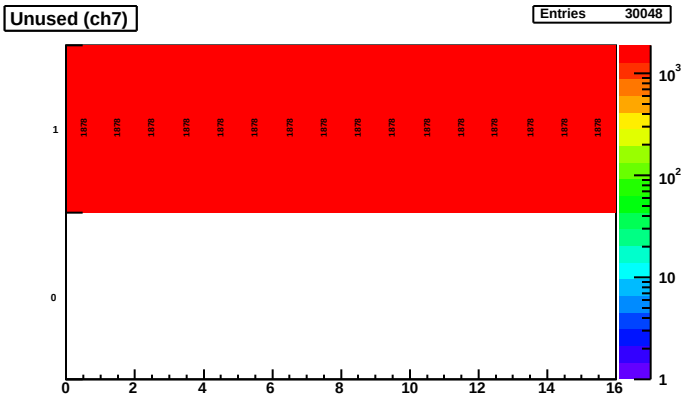

Unused (ch2)
Entries 30048

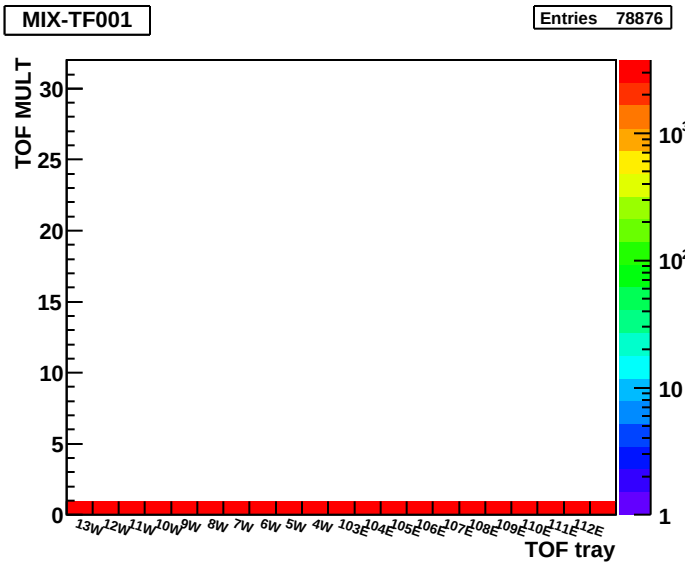

EM201 0-15 (ch3)
Entries 30048
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

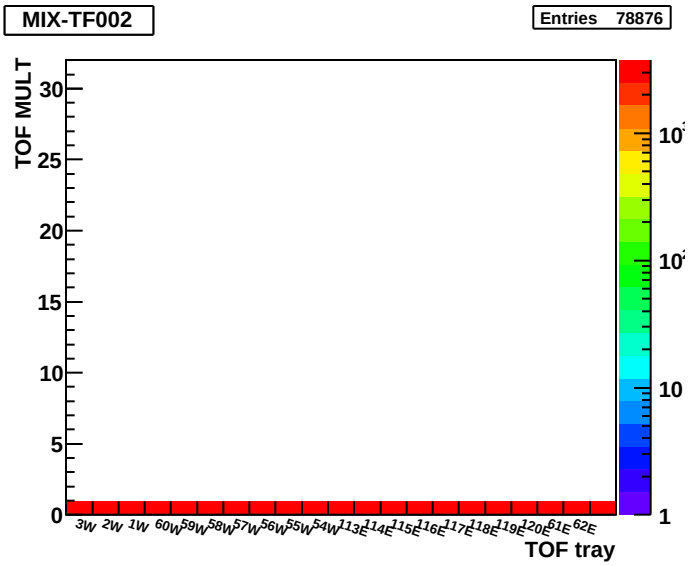

RAT board (ch4)
Entries 30048
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

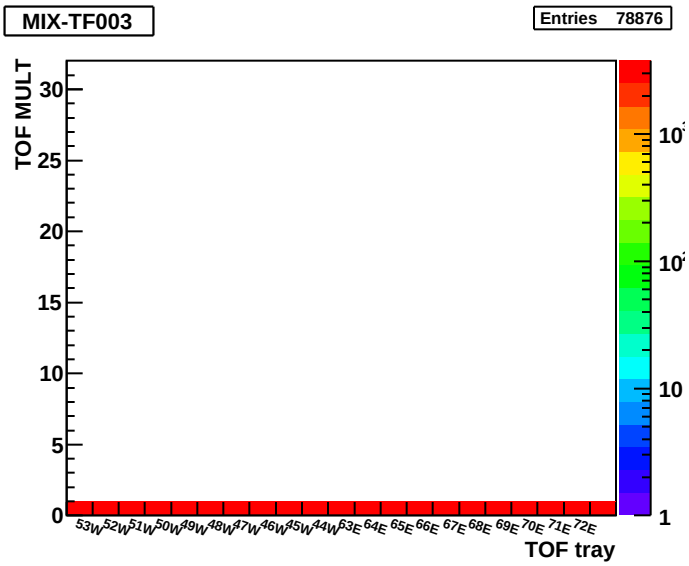

FP201 0-15 (ch5)
Entries 30048
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

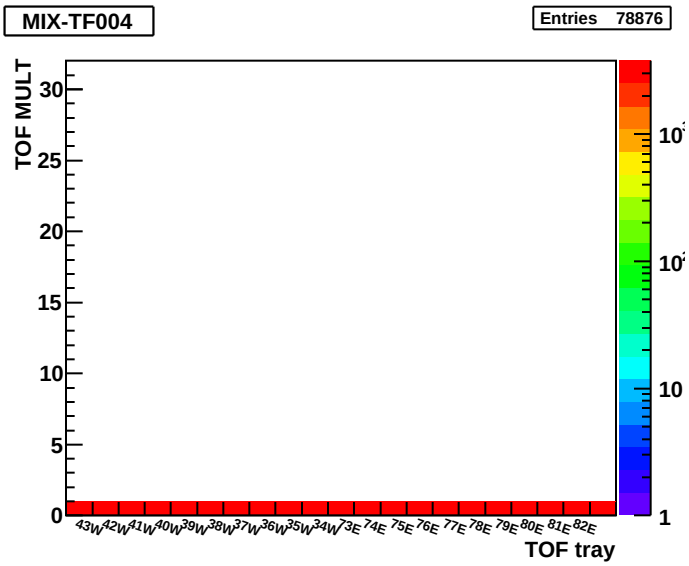

ST201 0-15 (ch6)
Entries 30048
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

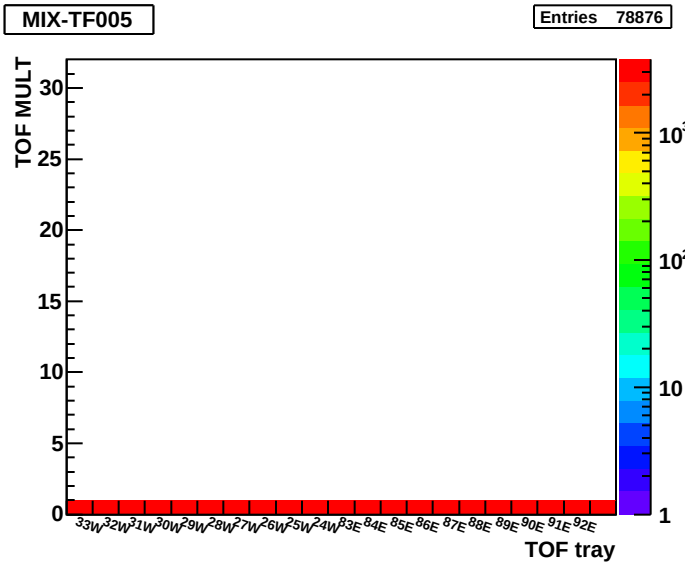

Unused (ch7)
Entries 30048

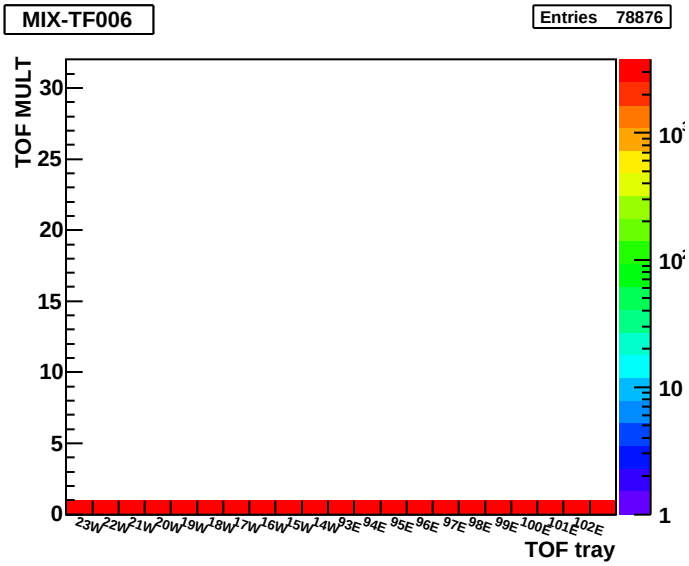

MIX-TF001
Entries 78876
TOF MULT
TOF tray

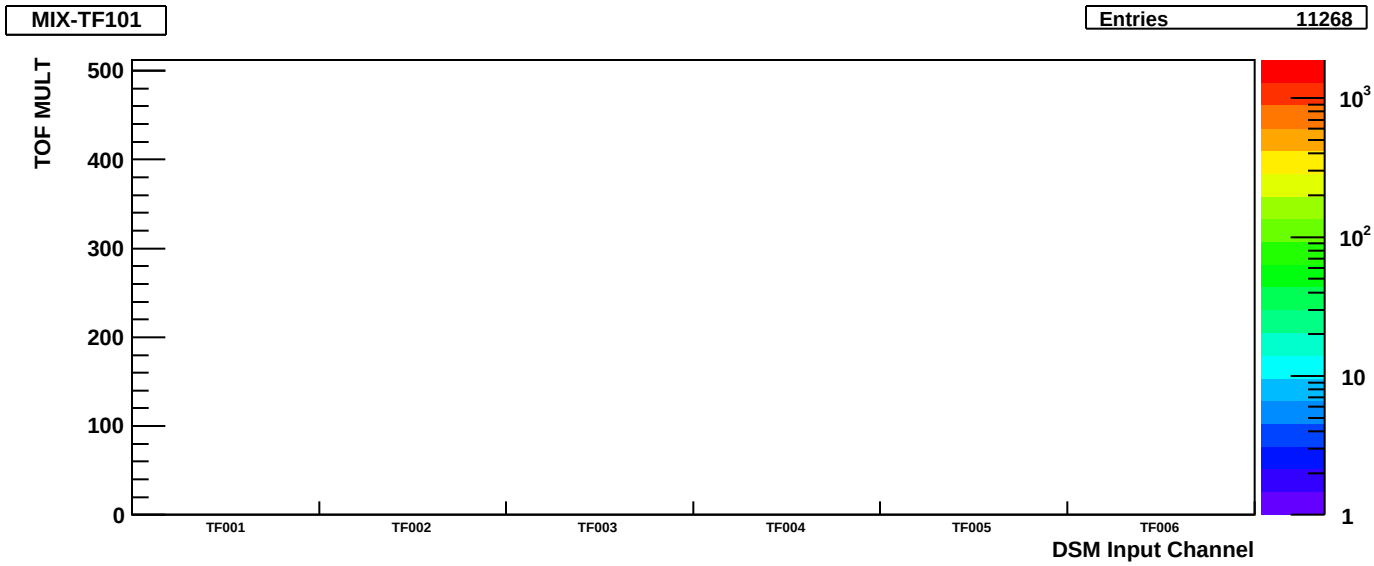

MIX-TF002
Entries 78876
TOF MULT
TOF tray

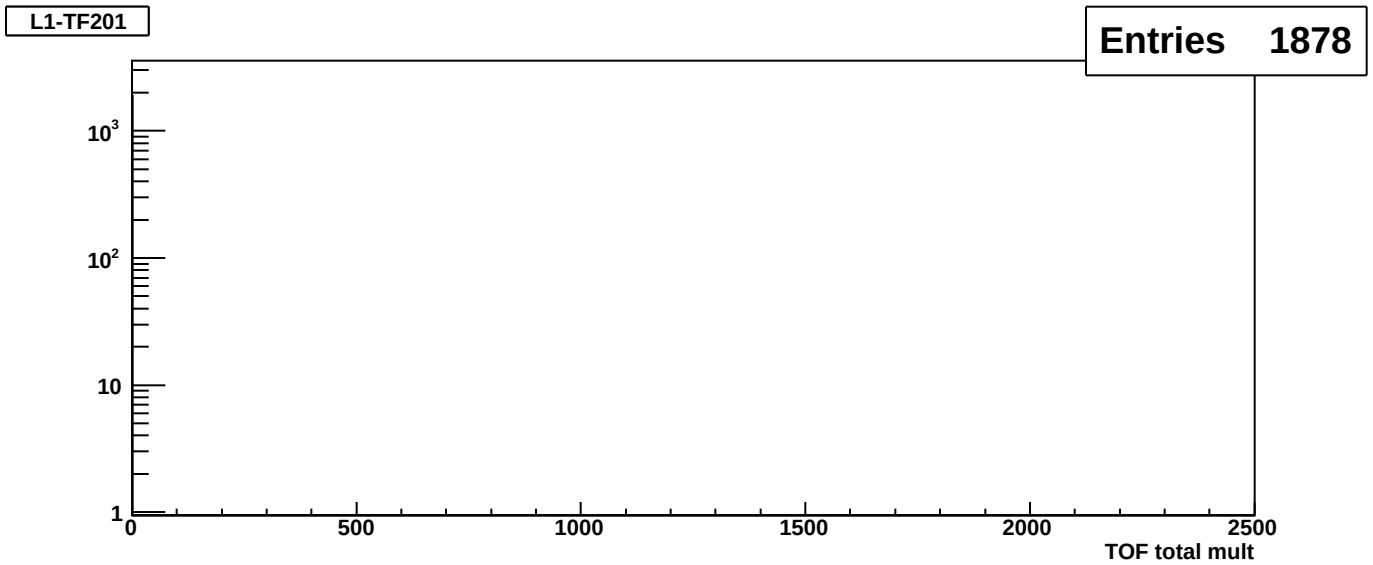

MIX-TF003
Entries 78876
TOF MULT
TOF tray

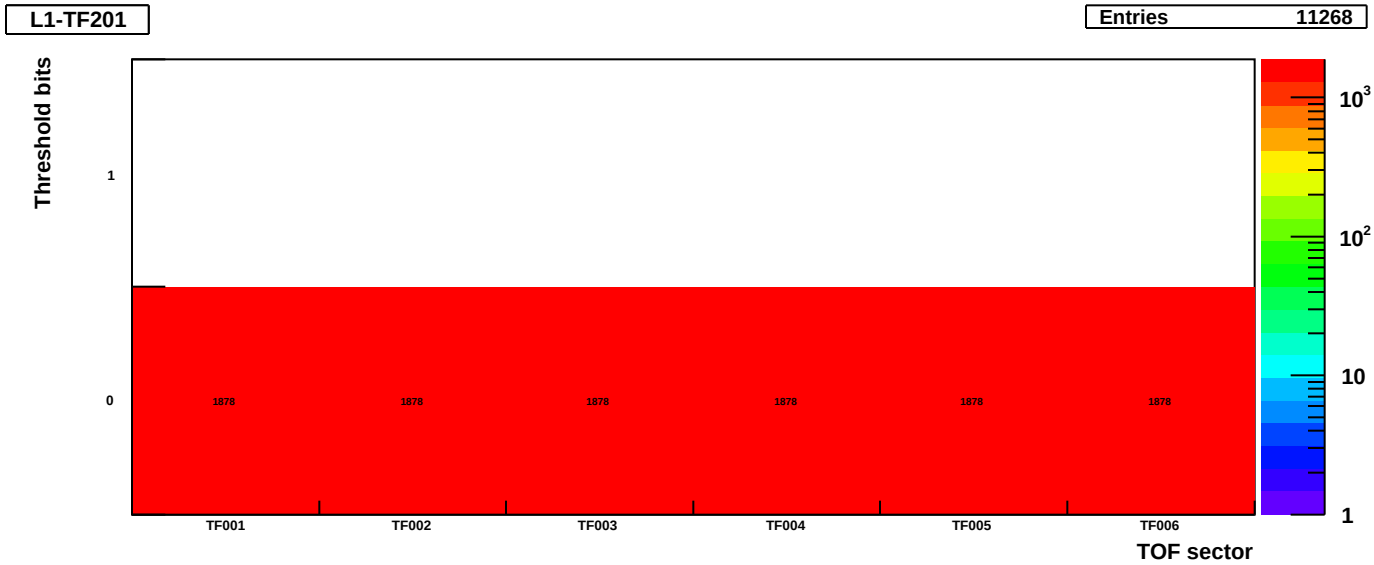

MIX-TF004
Entries 78876
TOF MULT
TOF tray

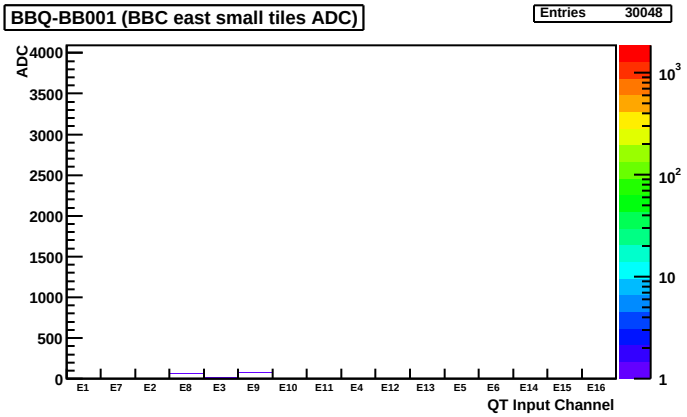

MIX-TF005
Entries 78876
TOF MULT
TOF tray

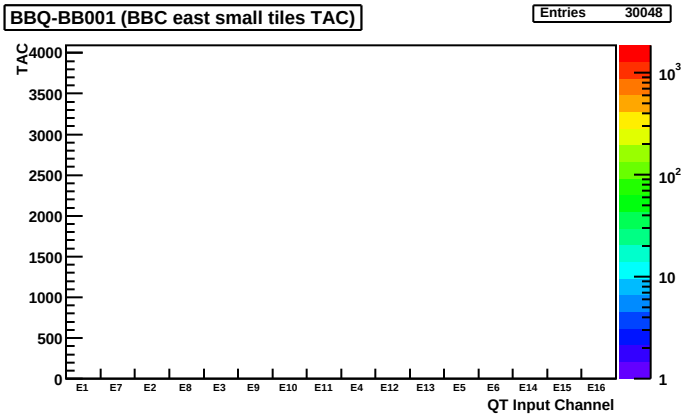

MIX-TF006
Entries 78876
TOF MULT
TOF tray

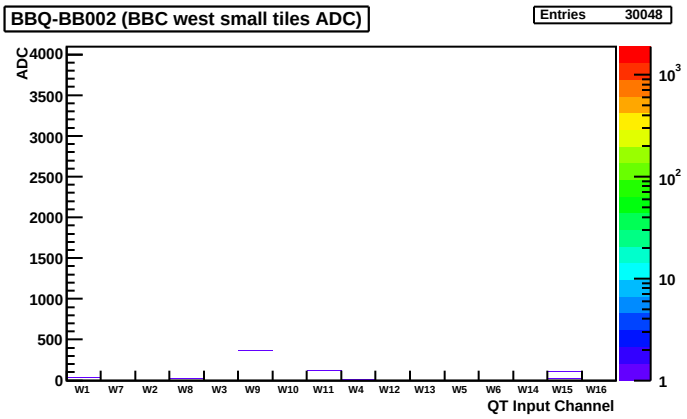

MIX-TF101
Entries 11268
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

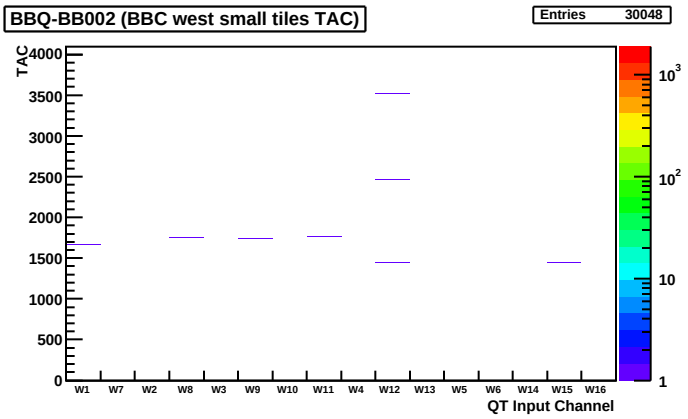

L1-TF201
Entries 1878
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

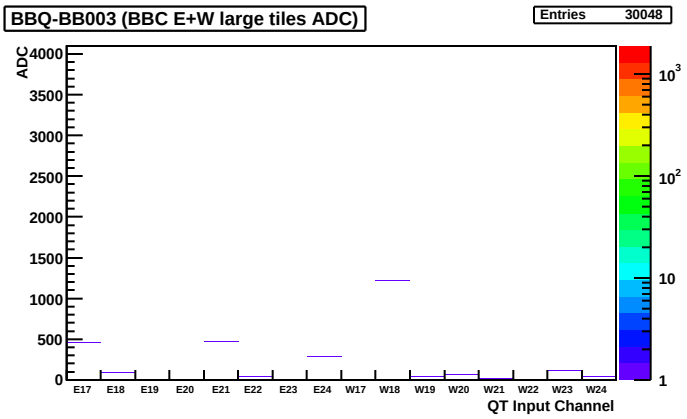

L1-TF201
Entries 11268
Threshold bits
1
0
1878
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^3
10^2
10
1

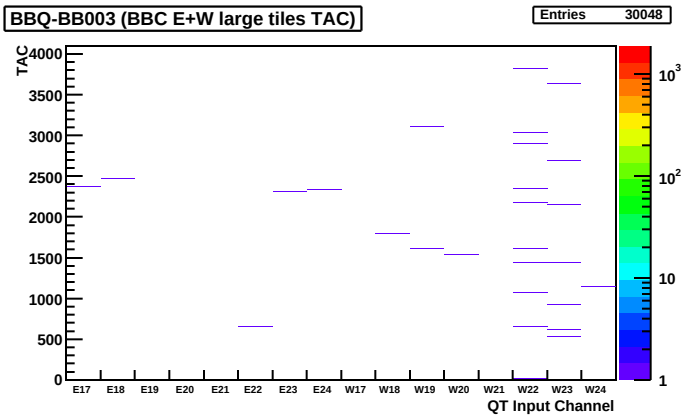

BBQ-BB001 (BBC east small tiles ADC)
Entries 30048
ADC
QT Input Channel

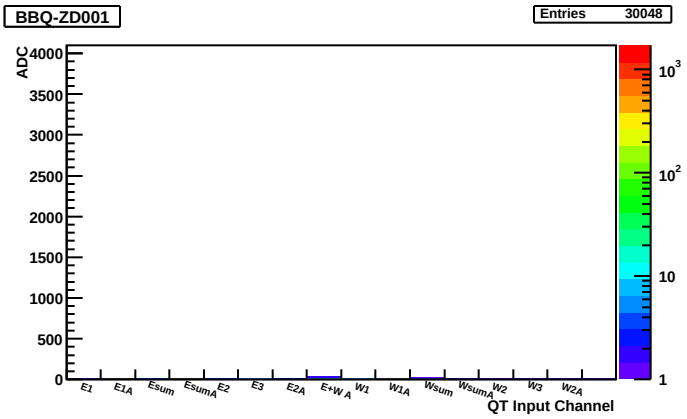

BBQ-BB001 (BBC east small tiles TAC)
Entries 30048
TAC
QT Input Channel

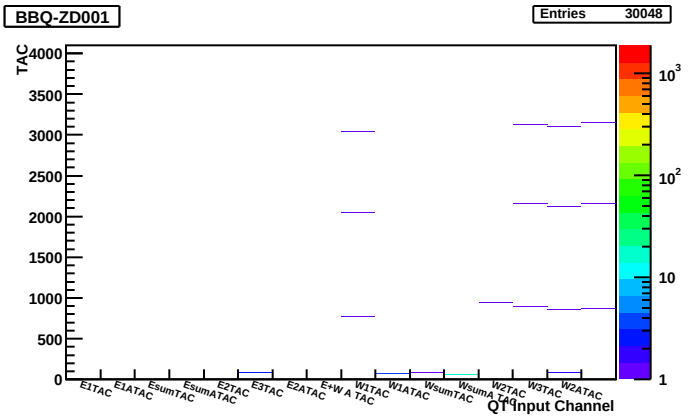

BBQ-BB002 (BBC west small tiles ADC)
Entries 30048
ADC
QT Input Channel

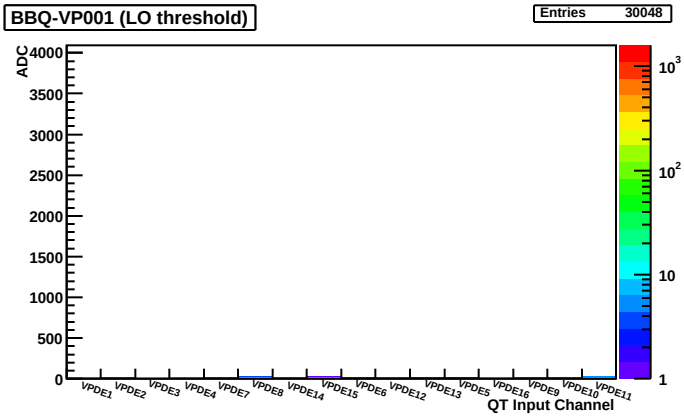

BBQ-BB002 (BBC west small tiles TAC)
Entries 30048
TAC
QT Input Channel

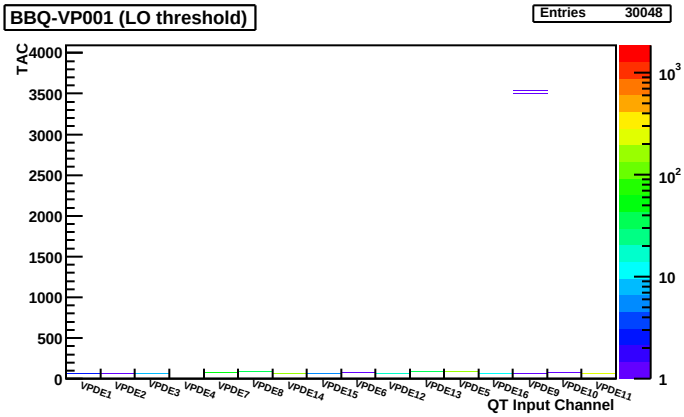

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 30048
ADC
QT Input Channel

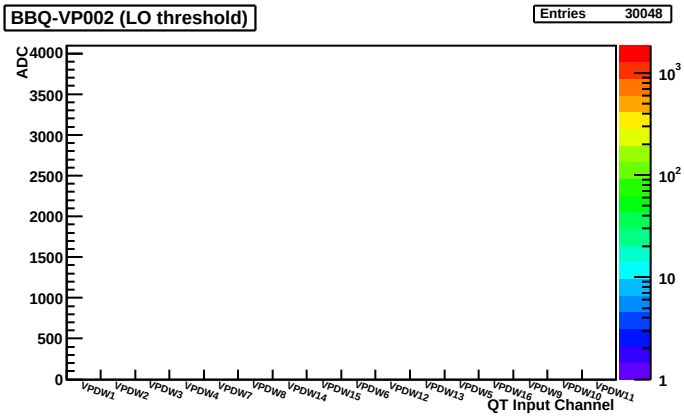

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 30048
TAC
QT Input Channel

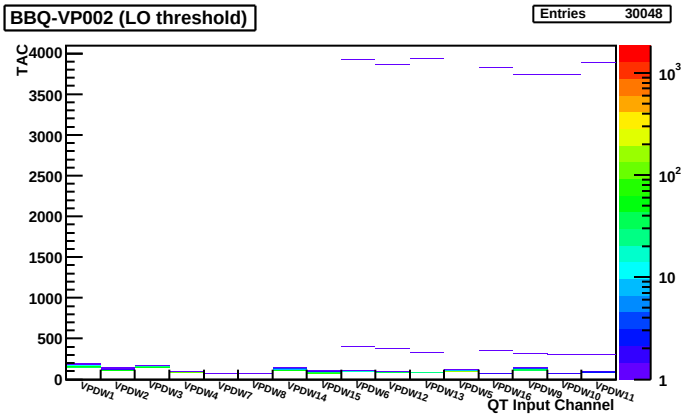

BBQ-ZD001
Entries 30048
ADC
QT Input Channel

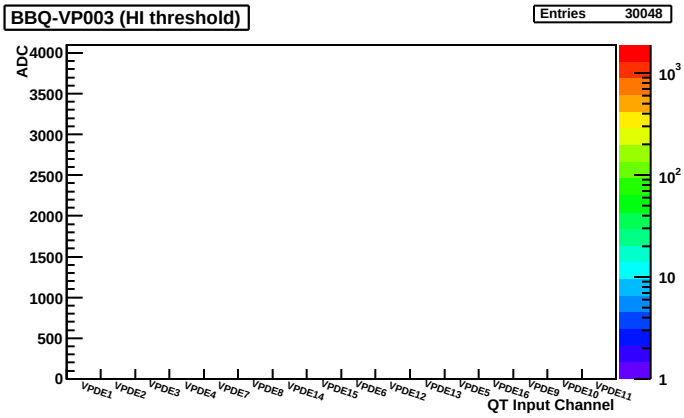

BBQ-ZD001
Entries 30048
TAC
QT Input Channel

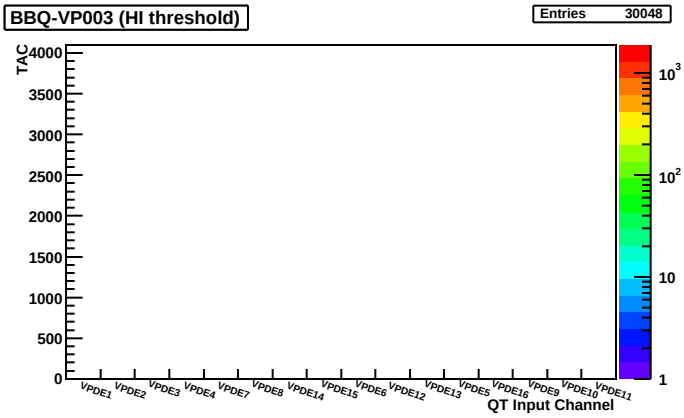

BBQ-VP001 (LO threshold)
Entries 30048
ADC
QT Input Channel

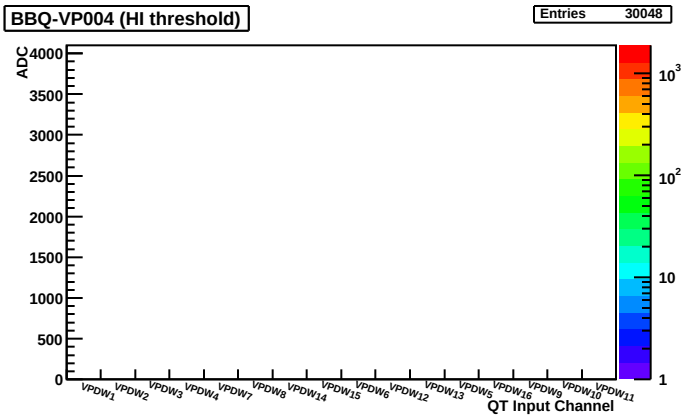

BBQ-VP001 (LO threshold)
Entries 30048
TAC
QT Input Channel

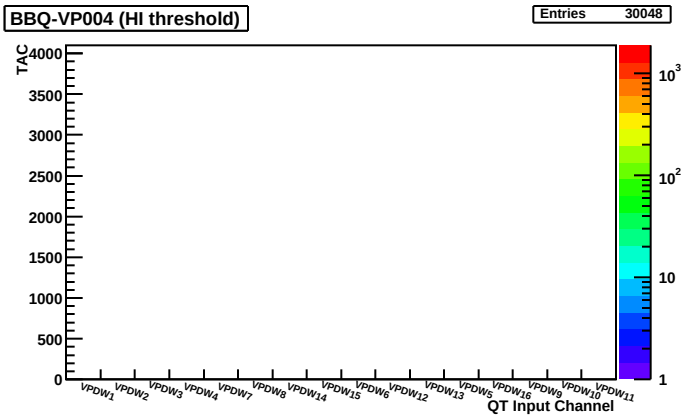

BBQ-VP002 (LO threshold)
Entries 30048
ADC
QT Input Channel

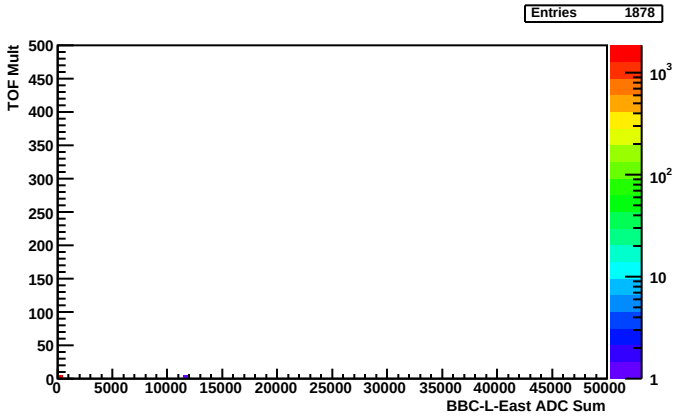

BBQ-VP002 (LO threshold)
Entries 30048
TAC
QT Input Channel

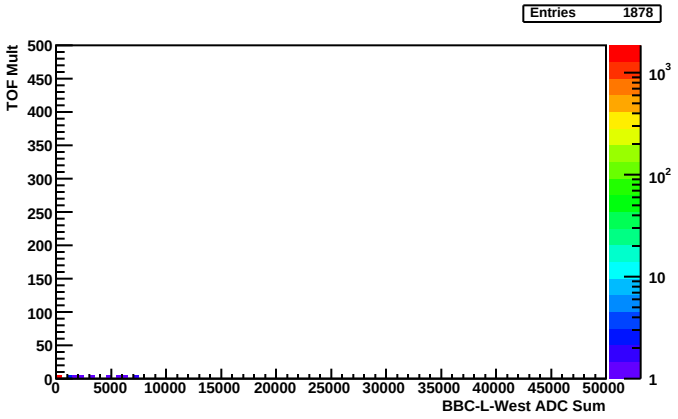

BBQ-VP003 (HI threshold)
Entries 30048
ADC
QT Input Channel

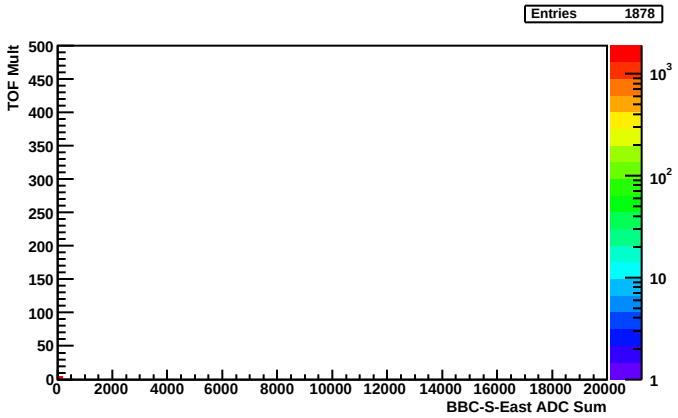

BBQ-VP003 (HI threshold)
Entries 30048
TAC
QT Input Channel

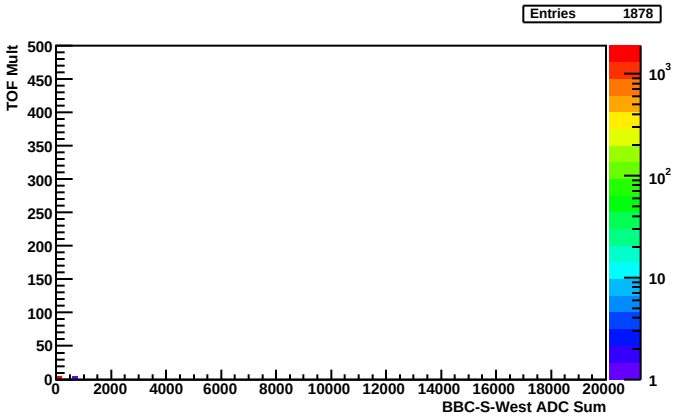

BBQ-VP004 (HI threshold)
Entries 30048
ADC
QT Input Channel

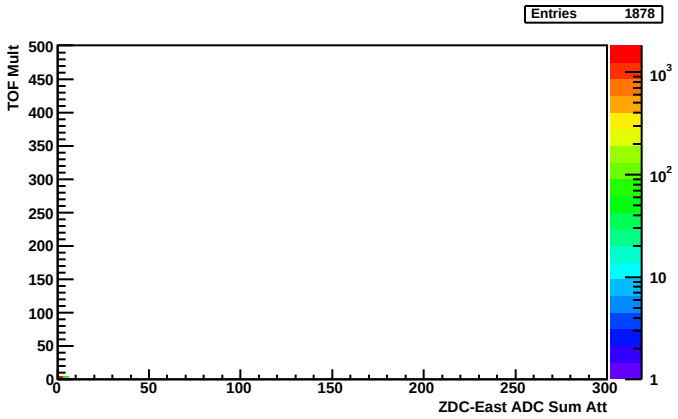

BBQ-VP004 (HI threshold)
Entries 30048
TAC
QT Input Channel

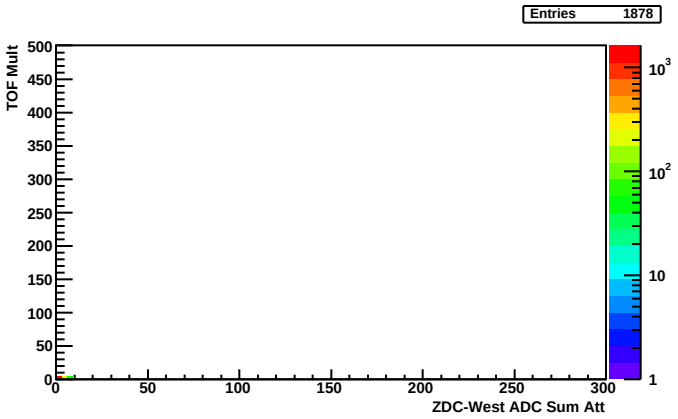

Entries 1878
TOF Mult
BBC-L-East ADC Sum

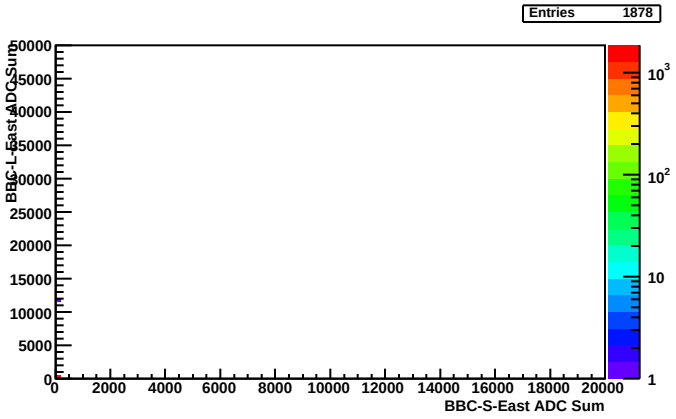

Entries 1878
TOF Mult
BBC-L-West ADC Sum

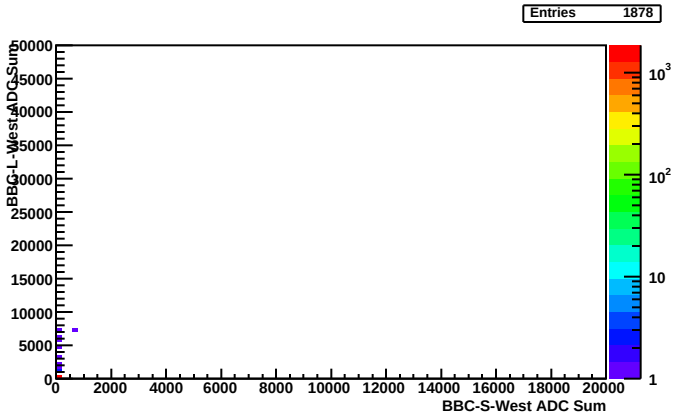

Entries 1878
TOF Mult
BBC-S-East ADC Sum

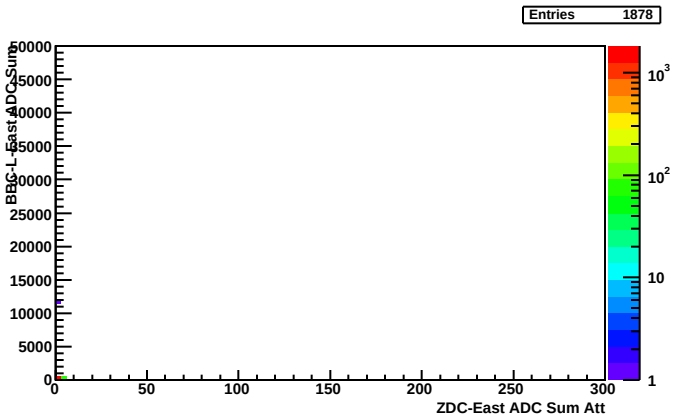

Entries 1878
TOF Mult
BBC-S-West ADC Sum

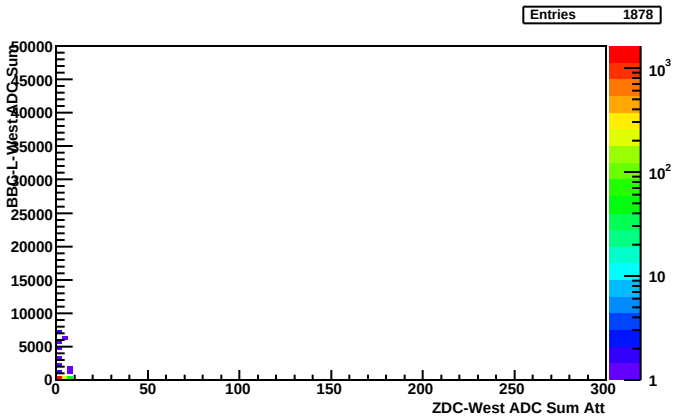

Entries 1878
TOF Mult
ZDC-East ADC Sum Att

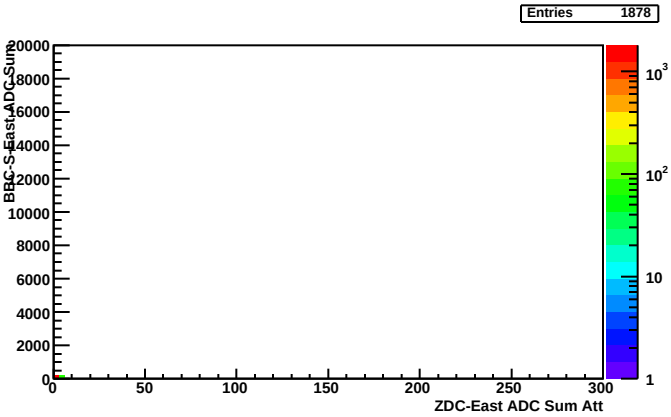

Entries 1878
TOF Mult
ZDC-West ADC Sum Att

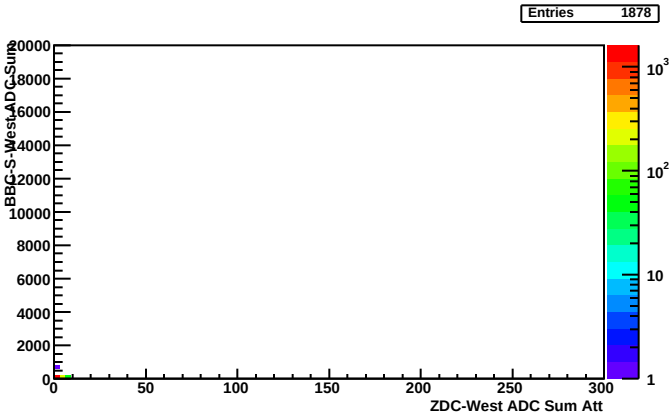

Entries 1878
BBC-L-East ADC Sum
BBC-S-East ADC Sum

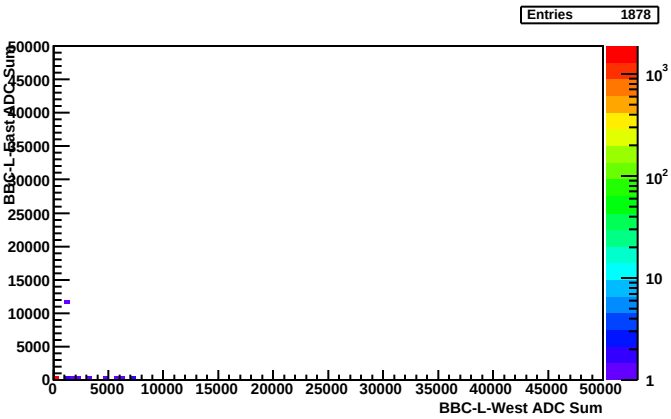

Entries 1878
BBC-L-West ADC Sum
BBC-S-West ADC Sum

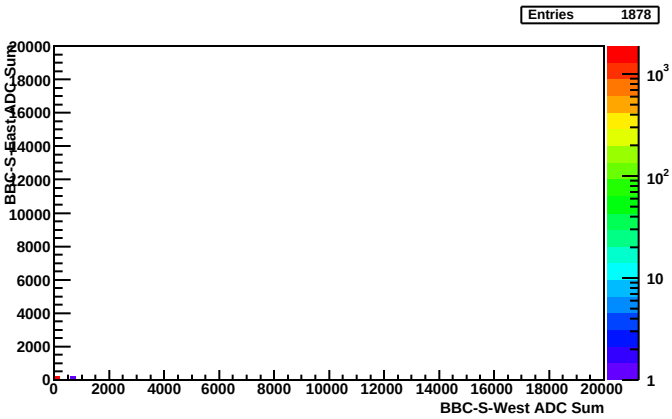

Entries 1878
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

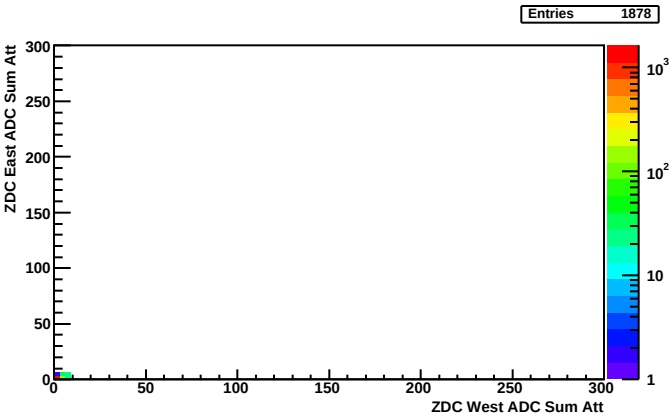

Entries 1878
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

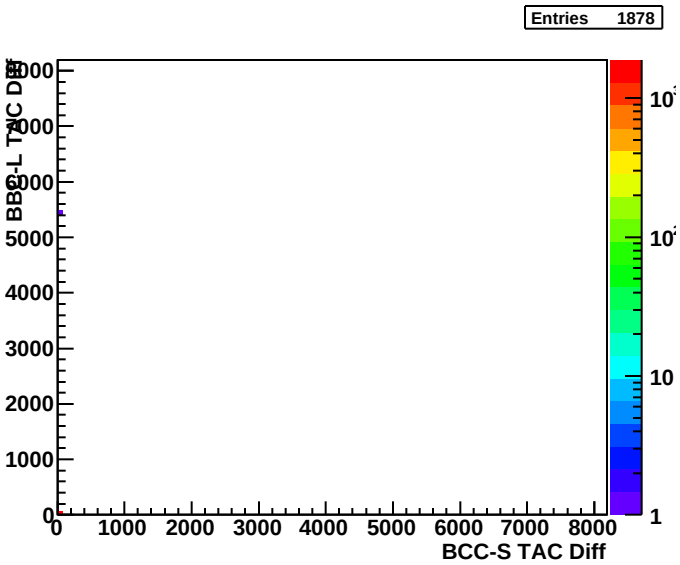

Entries 1878
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

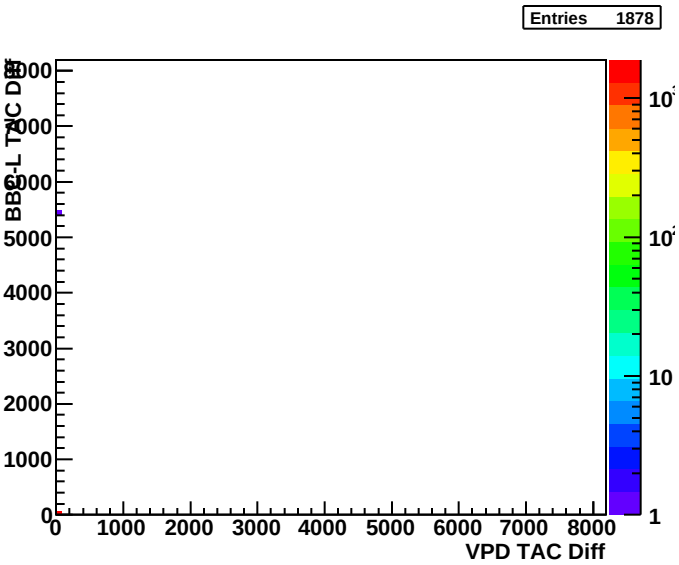

Entries 1878
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

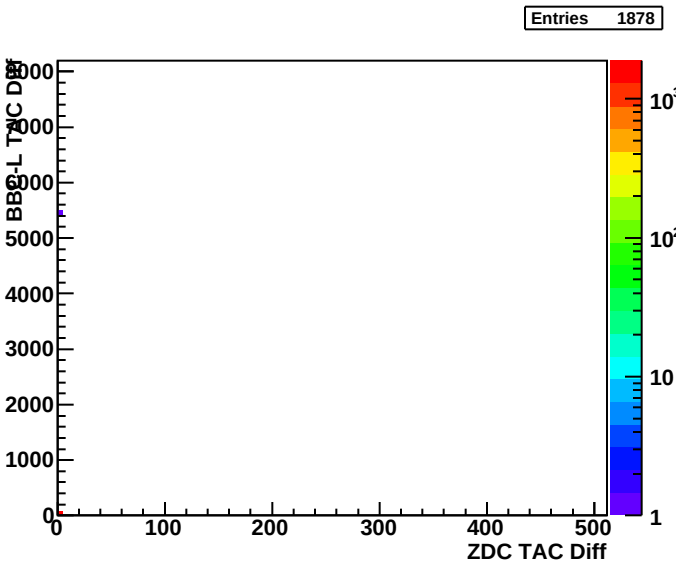

Entries 1878
BBC-L-East ADC Sum
BBC-L-West ADC Sum

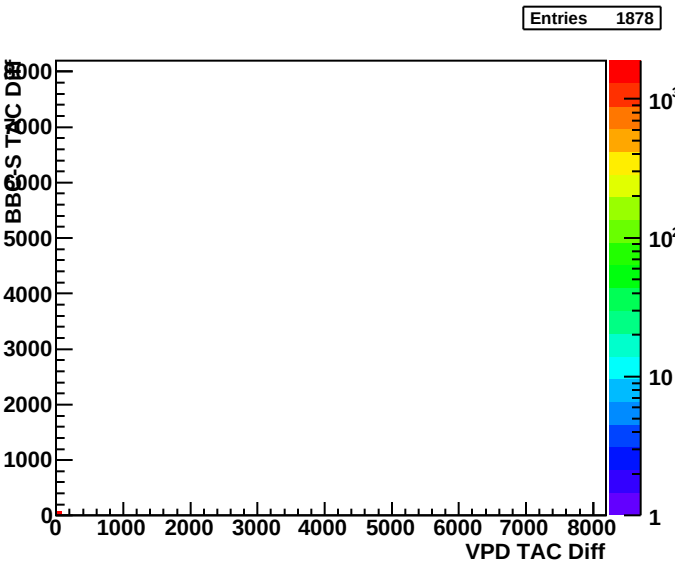

Entries 1878
BBC-S-East ADC Sum
BBC-S-West ADC Sum

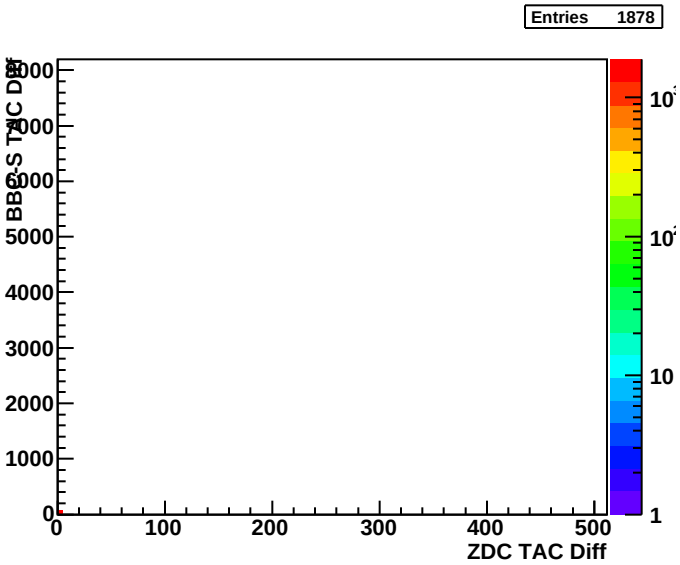

Entries 1878
ZDC East ADC Sum Att
ZDC West ADC Sum Att

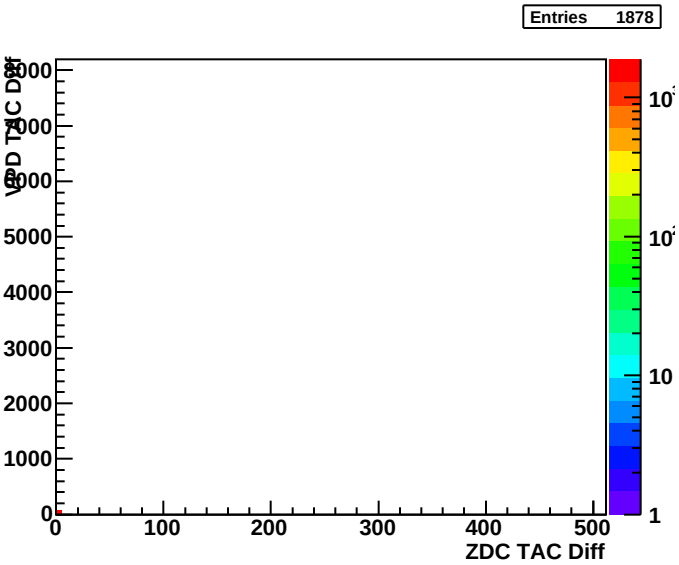

Entries 1878
BBC-L TAC Diff
BCC-S TAC Diff

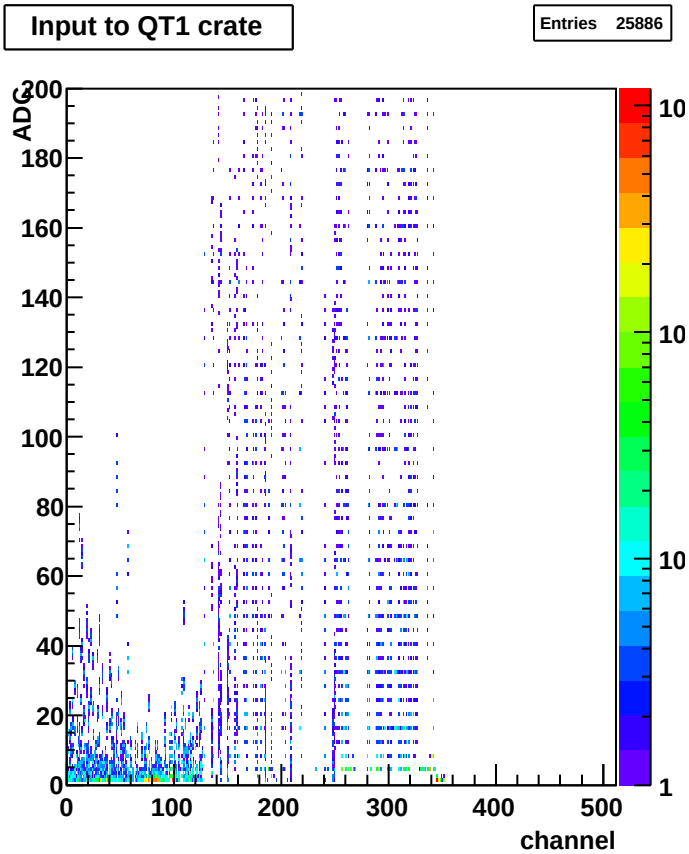

Entries 1878
BBC-L TAC Diff
VPD TAC Diff

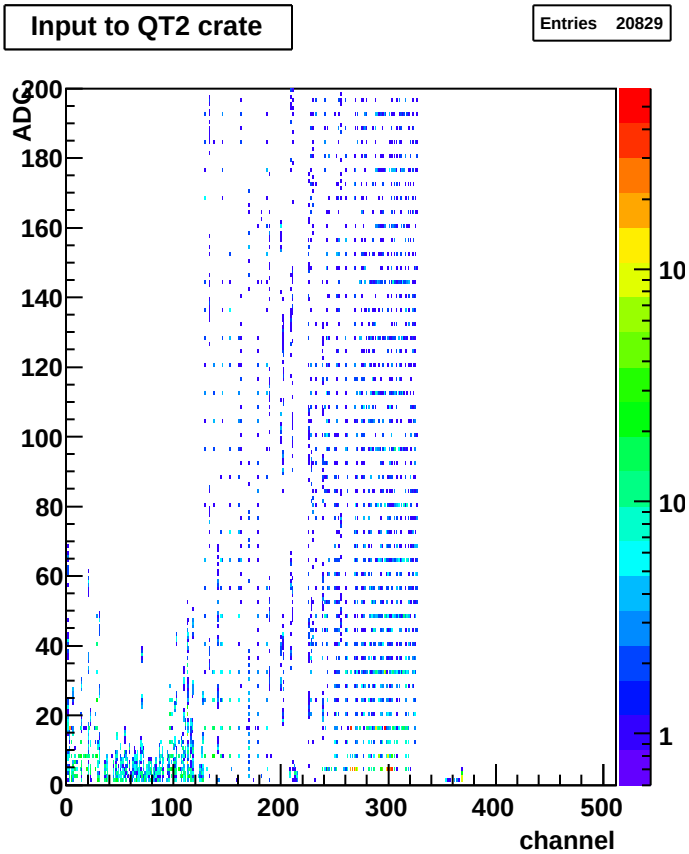

Entries 1878
BBC-L TAC Diff
ZDC TAC Diff

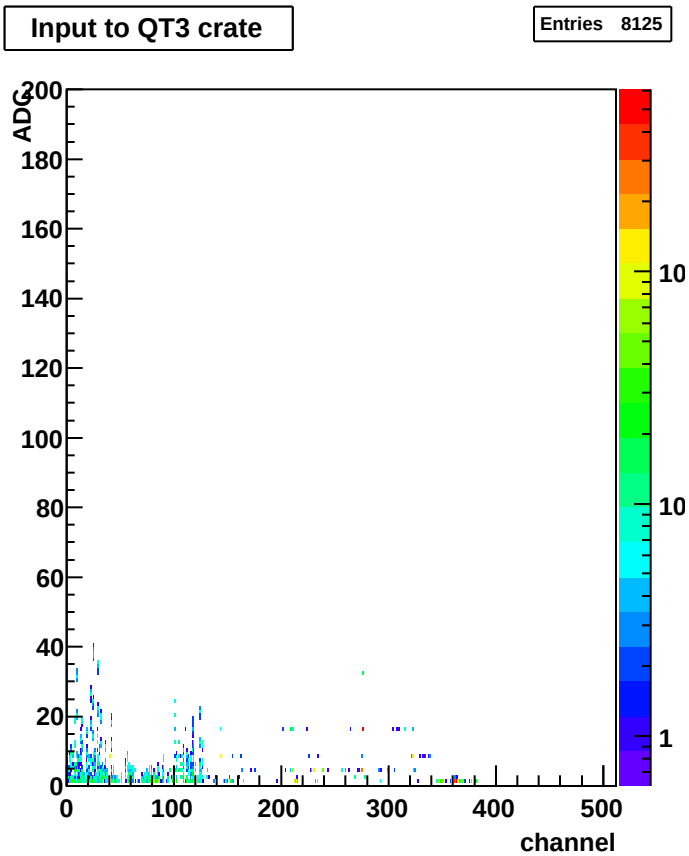

Entries 1878
BBC-S TAC Diff
VPD TAC Diff

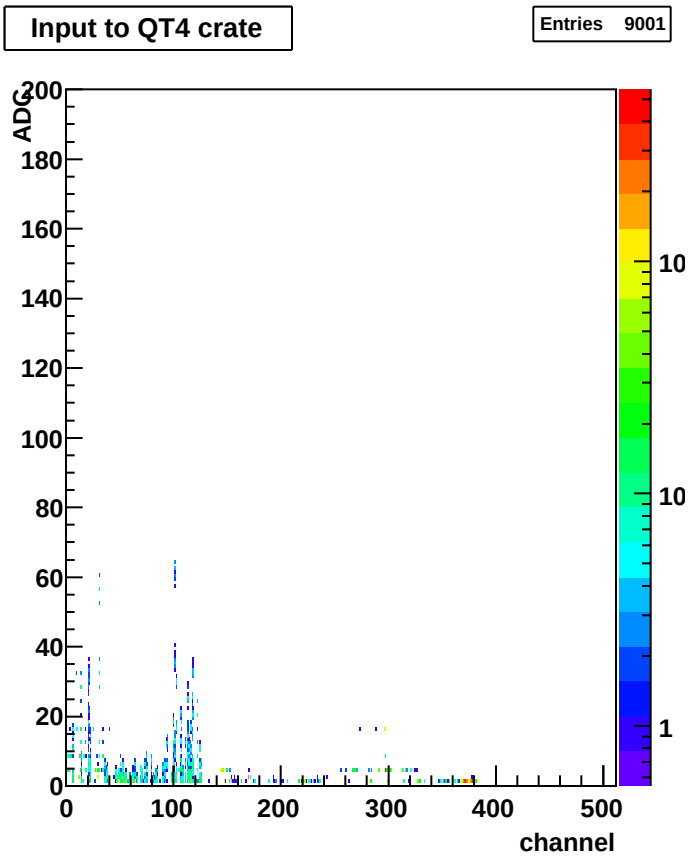

Entries 1878
BBC-S TAC Diff
ZDC TAC Diff

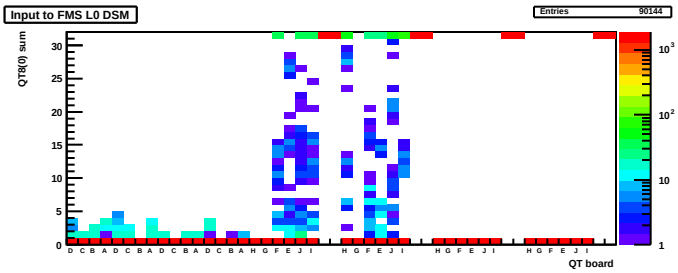

Entries 1878
VPD TAC Diff
ZDC TAC Diff

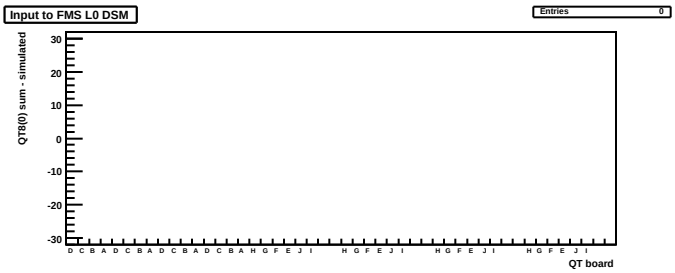

Input to QT1 crate
Entries 25886
ADC
channel

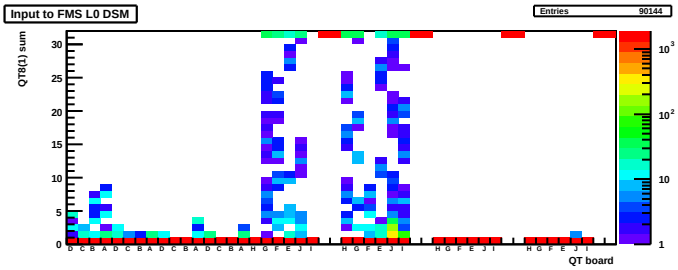

Input to QT2 crate
Entries 20829
ADC
channel

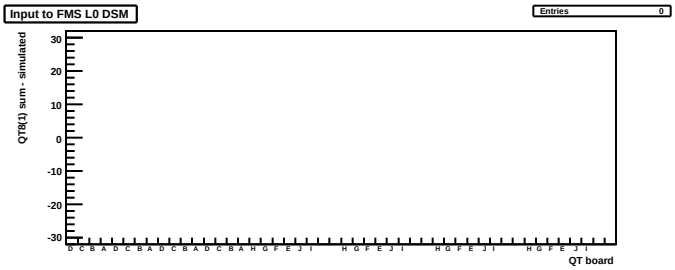

Input to QT3 crate
Entries 8125
ADC
channel

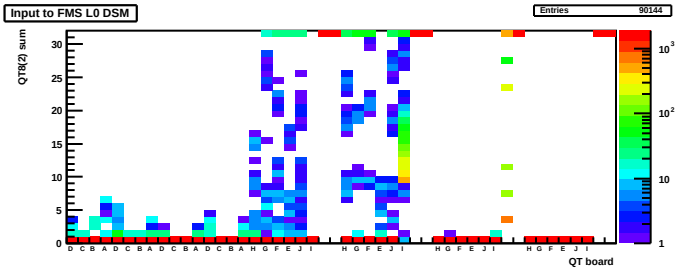

Input to QT4 crate
Entries 9001
ADC
channel

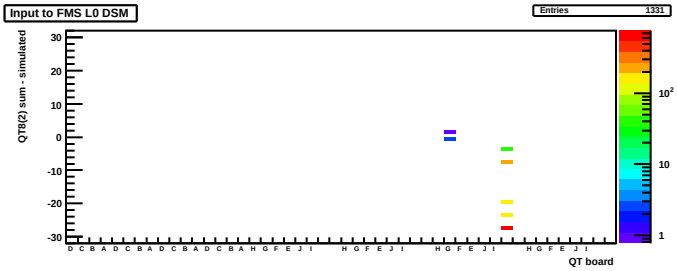

Input to FMS L0 DSM
Entries 90144
QT8(0) sum
QT board

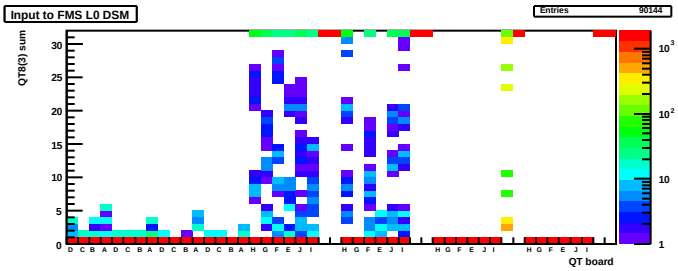

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

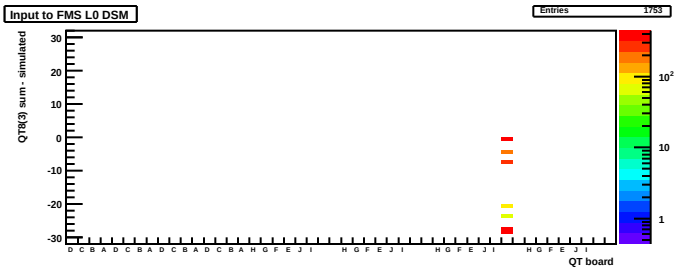

Input to FMS L0 DSM
Entries 90144
QT8(1) sum
QT board

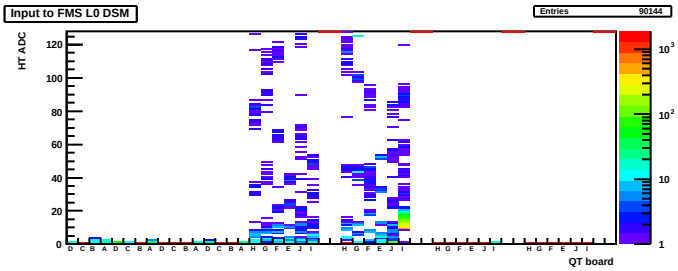

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

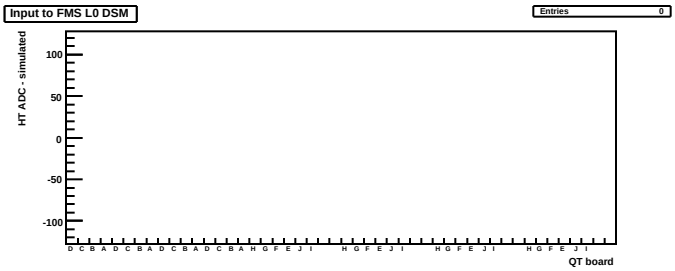

Input to FMS L0 DSM
Entries 90144
QT8(2) sum
QT board

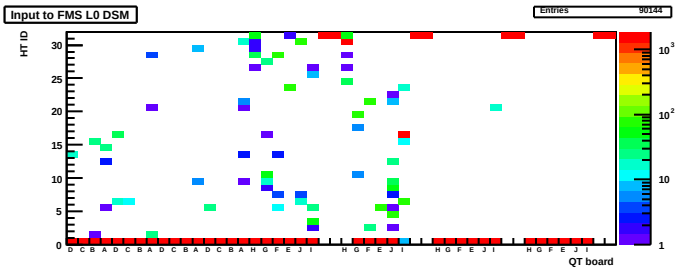

Input to FMS L0 DSM
Entries 1331
QT8(2) sum - simulated
QT board

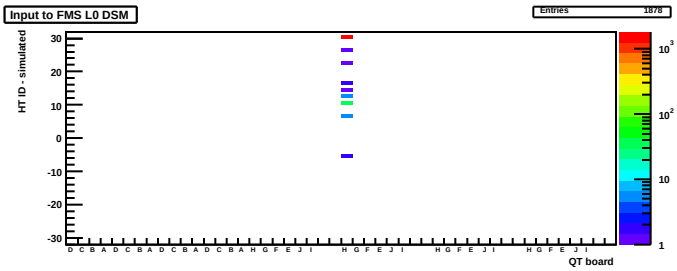

Input to FMS L0 DSM
Entries 90144
QT8(3) sum
QT board

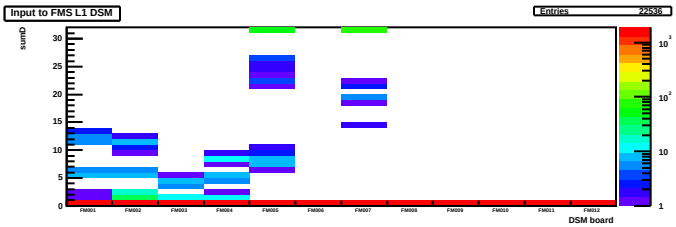

Input to FMS L0 DSM
Entries 1753
QT8(3) sum - simulated
QT board

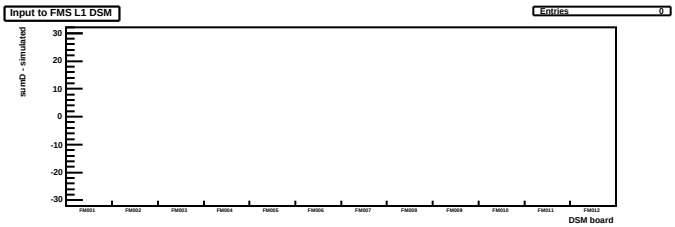

Input to FMS L0 DSM
Entries 90144
HT ADC
QT board

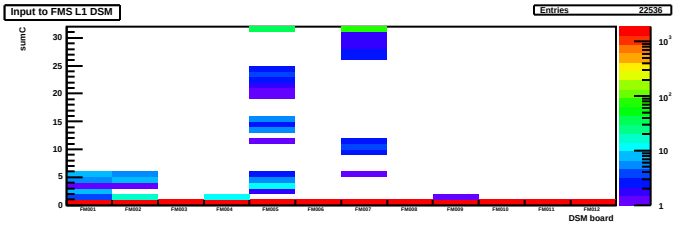

Input to FMS L0 DSM
Entries 0
HT ADC - simulated
QT board

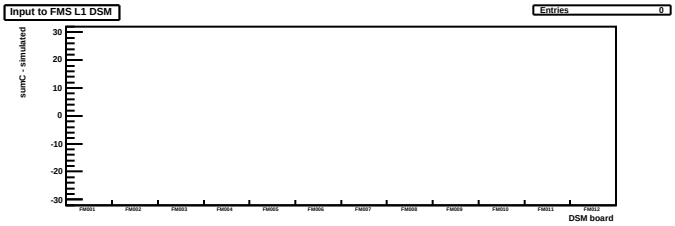

Input to FMS L0 DSM
Entries 90144
HT ID
QT board

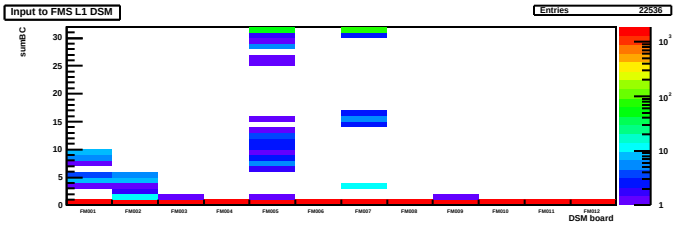

Input to FMS L0 DSM
Entries 1878
HT ID - simulated
QT board

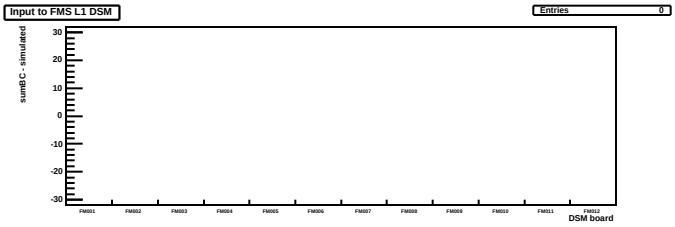

Input to FMS L1 DSM
Entries 22536
sumD
DSM board

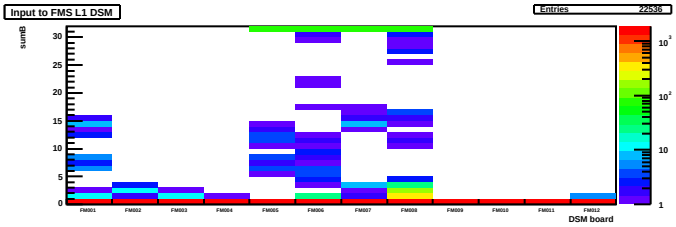

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

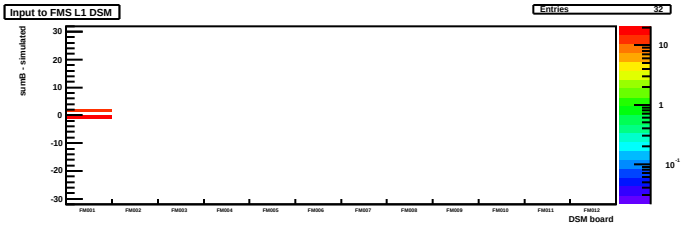

Input to FMS L1 DSM
Entries 22536
sumC
DSM board

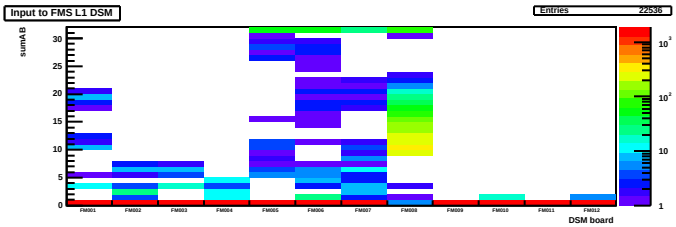

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

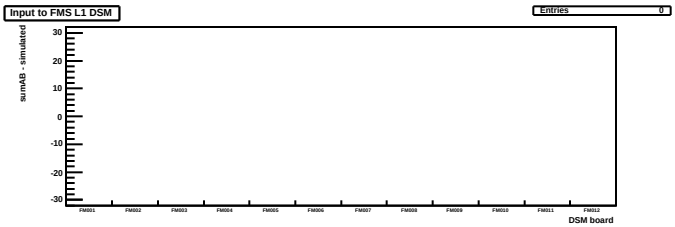

Input to FMS L1 DSM
Entries 22536
sumBC
DSM board

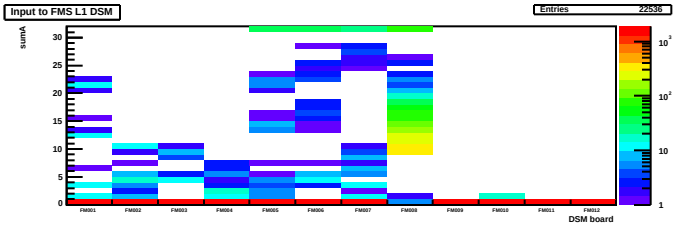

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

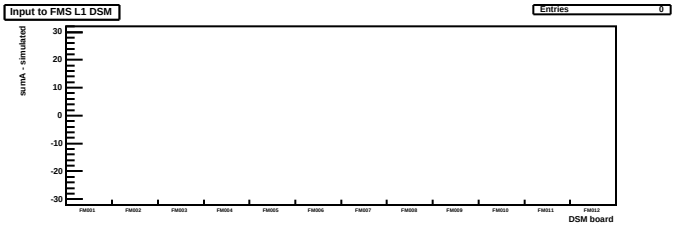

Input to FMS L1 DSM
Entries 22536
sumB
DSM board

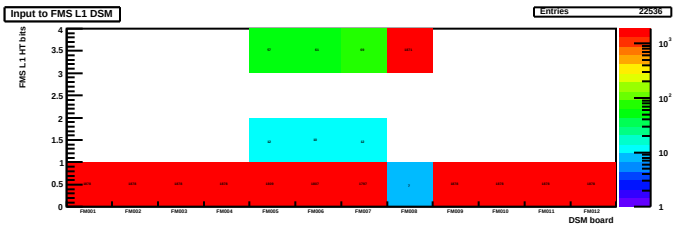

Input to FMS L1 DSM
Entries 32
sumB - simulated
DSM board

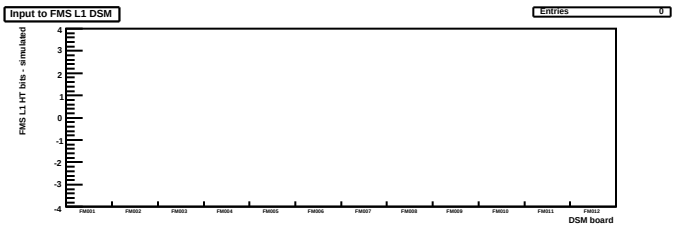

Input to FMS L1 DSM
Entries 22536
sumAB
DSM board

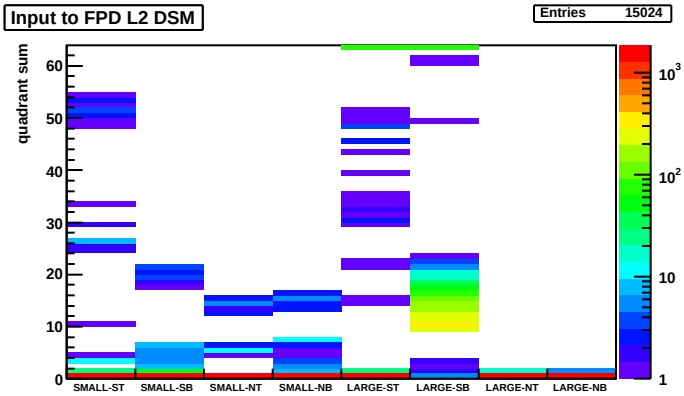

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

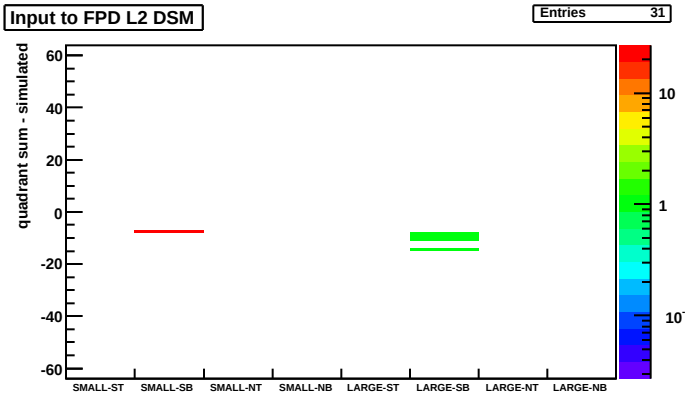

Input to FMS L1 DSM
Entries 22536
sumA
DSM board

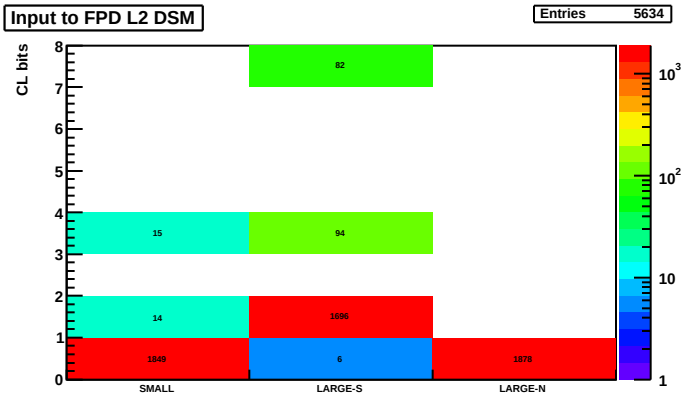

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

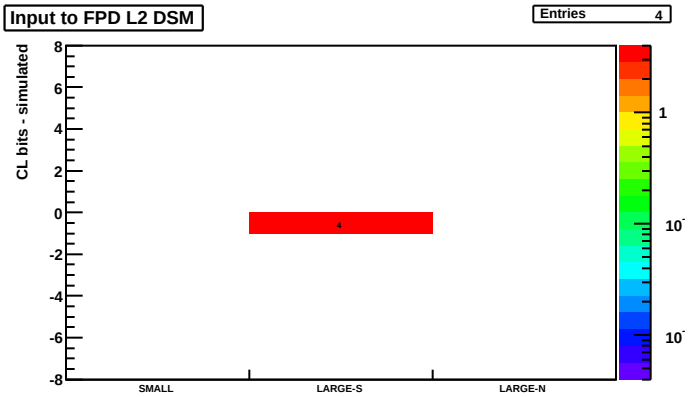

Input to FMS L1 DSM
Entries 22536
FMS L1 HT bits
DSM board

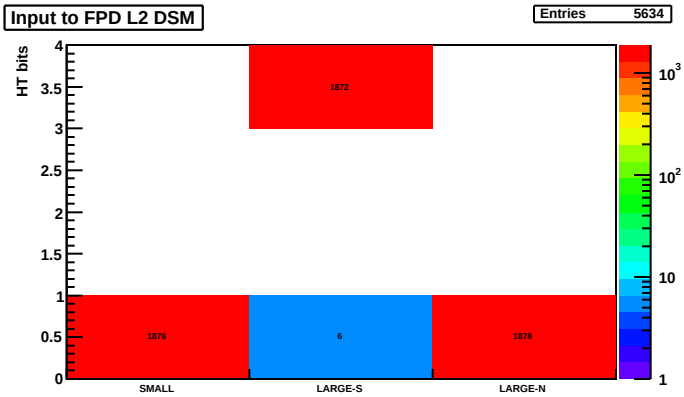

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

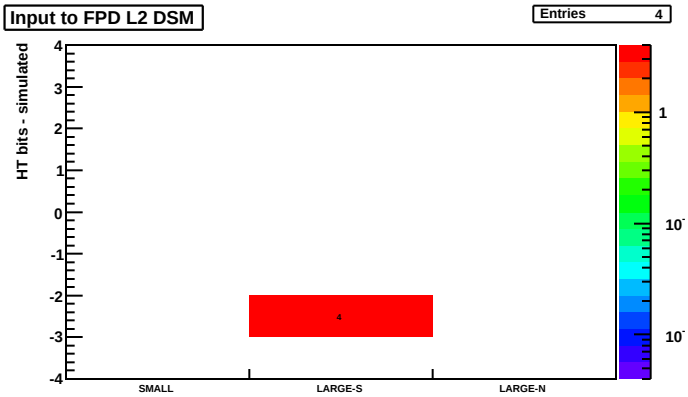

Input to FPD L2 DSM
Entries 15024
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

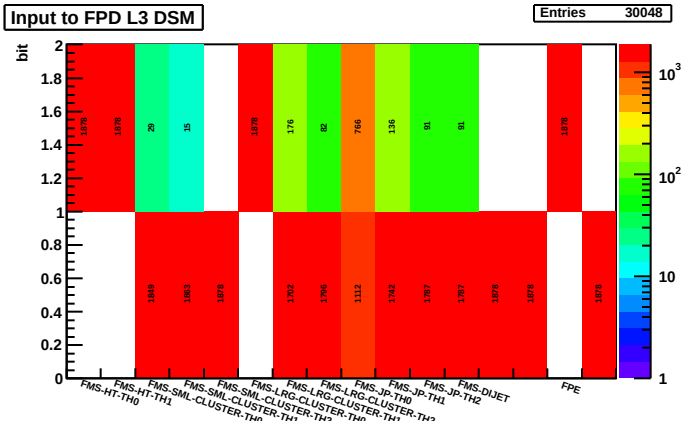

Input to FPD L2 DSM
Entries 31
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

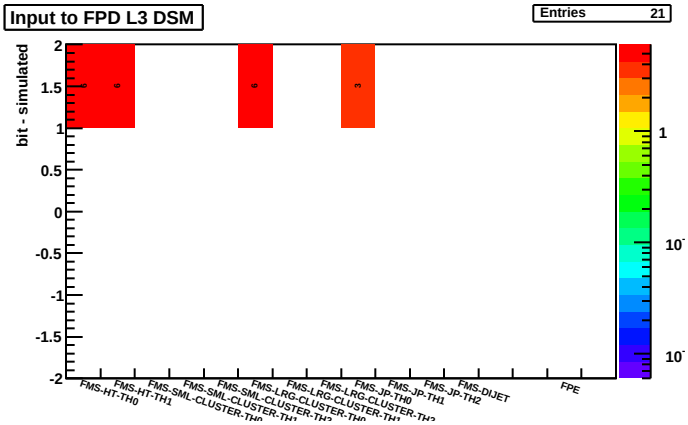

Input to FPD L2 DSM
Entries 5634
CL bits
82
15
94
14
1696
1849
6
1878
SMALL
LARGE-S
LARGE-N

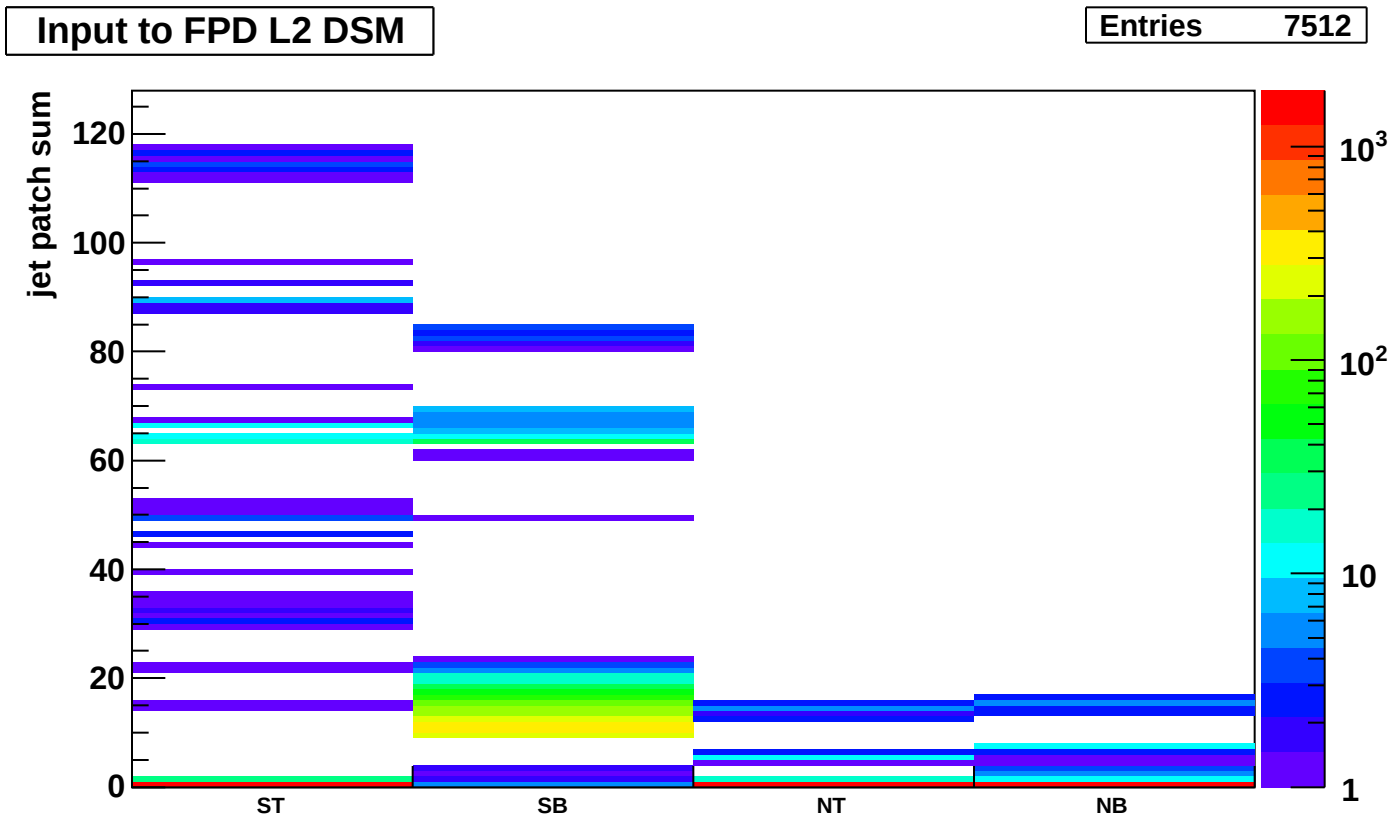

Input to FPD L2 DSM
Entries 4
CL bits - simulated
4
SMALL
LARGE-S
LARGE-N

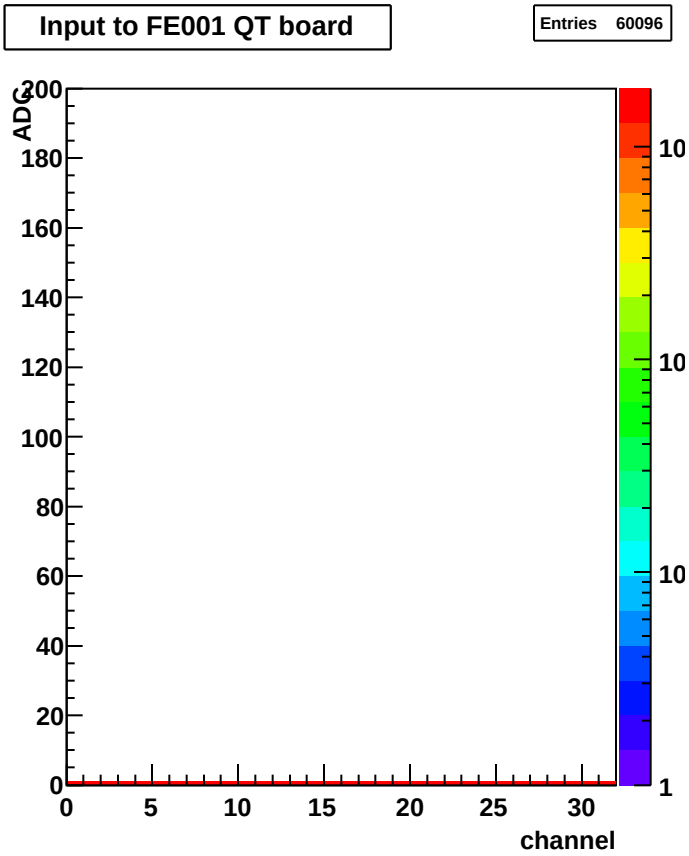

Input to FPD L2 DSM
Entries 5634
HT bits
1872
1878
6
1878
SMALL
LARGE-S
LARGE-N

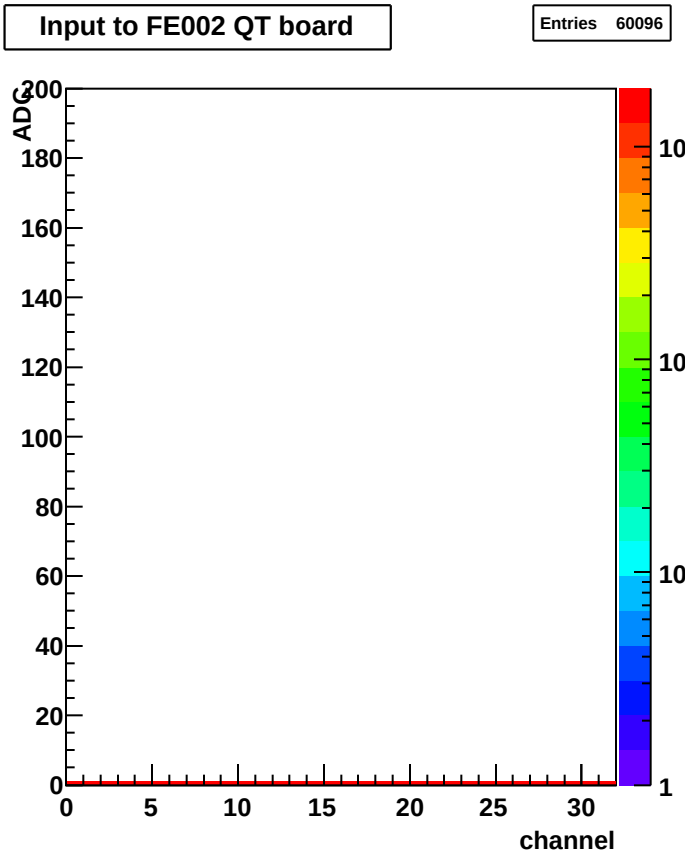

Input to FPD L2 DSM
Entries 4
HT bits - simulated
4
SMALL
LARGE-S
LARGE-N

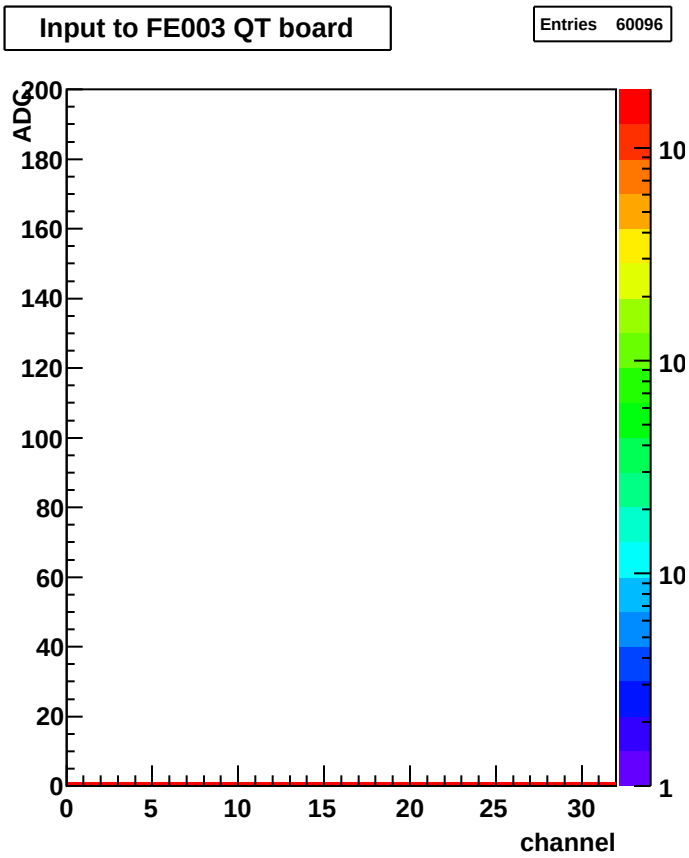

Input to FPD L3 DSM
Entries 30048
bit
1576
1878
29
15
1878
176
82
766
136
91
91
1878
1849
1863
1878
1702
1796
1112
1342
1767
1787
1878
1878
1878
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

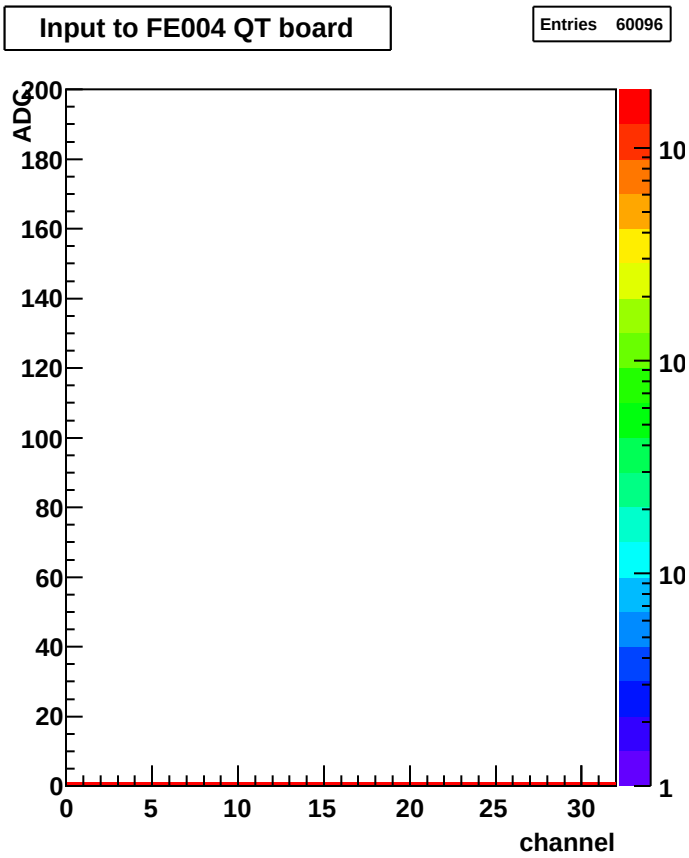

Input to FPD L3 DSM
Entries 21
bit - simulated
6
6
6
3
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

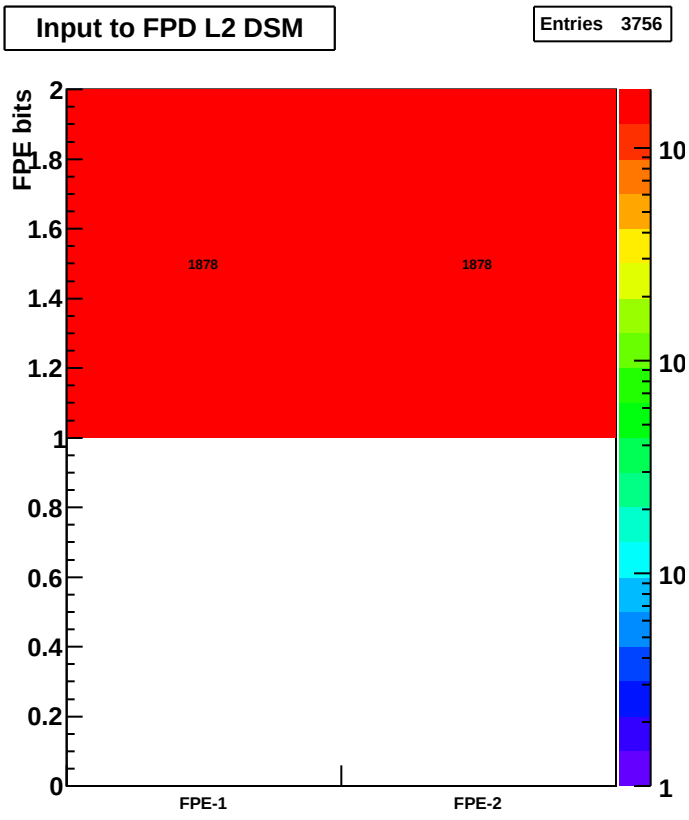

Input to FPD L2 DSM
Entries 7512
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^3
10^2
10
1

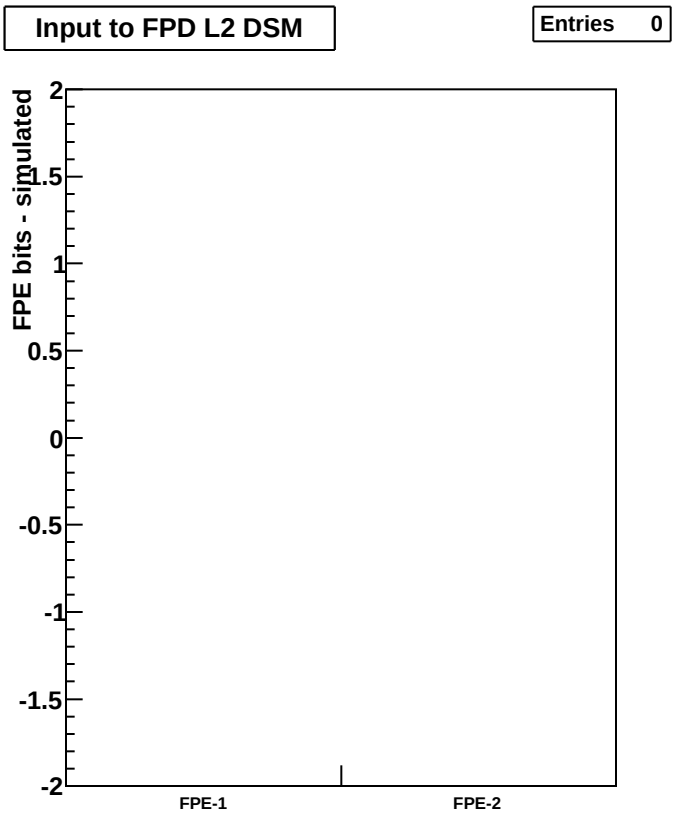

Input to FE001 QT board
Entries 60096
ADC
channel


Input to FE002 QT board
Entries 60096
ADC
channel


Input to FE003 QT board
Entries 60096
ADC
channel


Input to FE004 QT board
Entries 60096
ADC
channel


Input to FPD L2 DSM
Entries 3756
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1878
1878
FPE-1
FPE-2
10
10
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