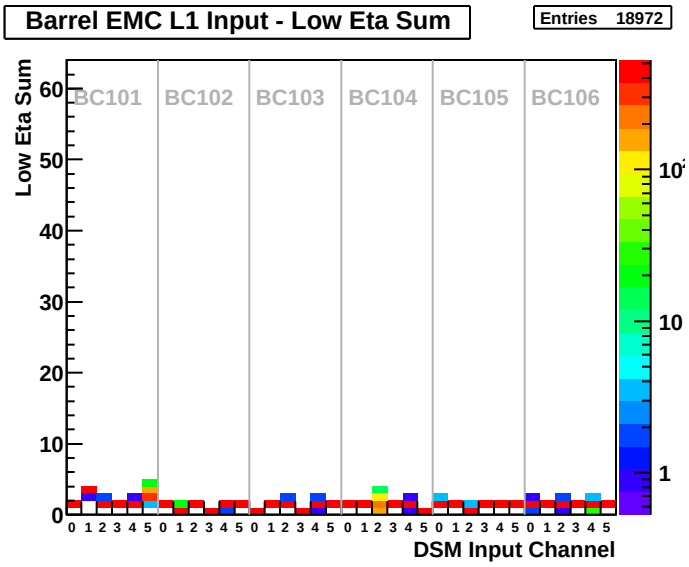
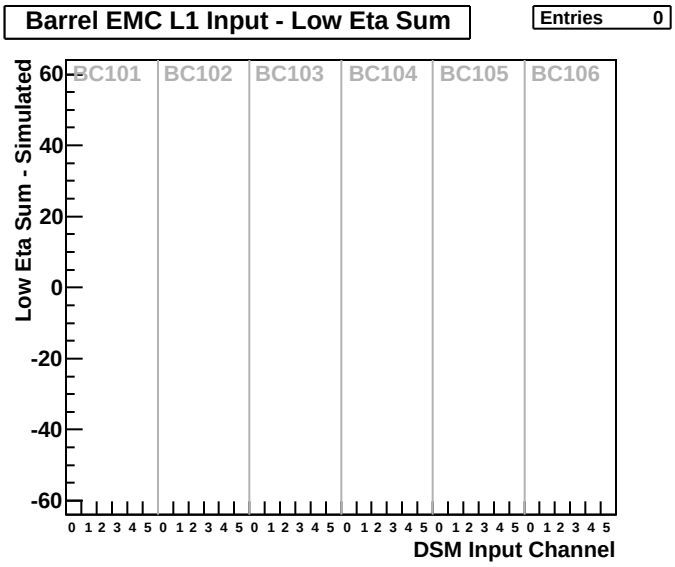
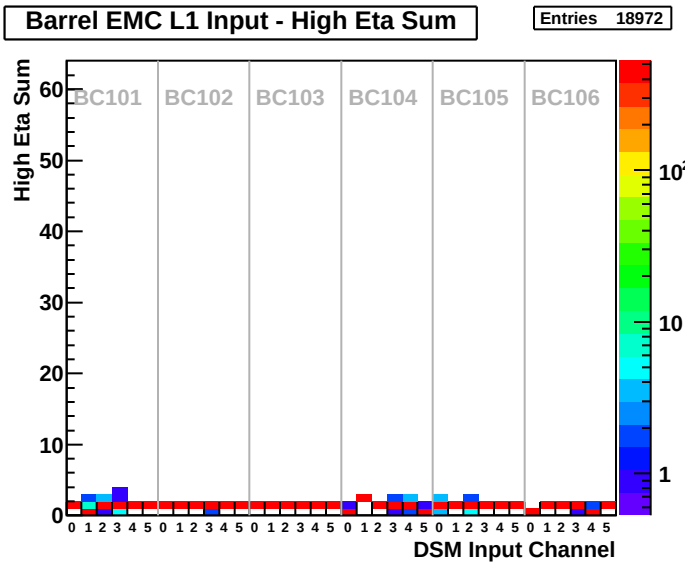
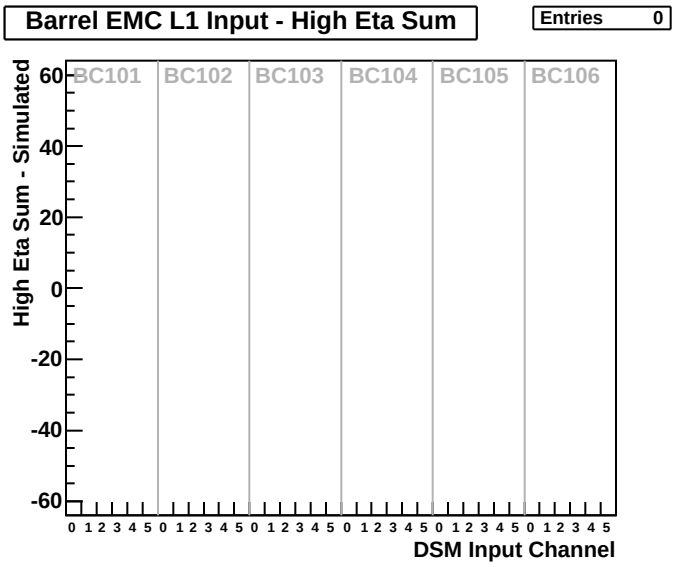
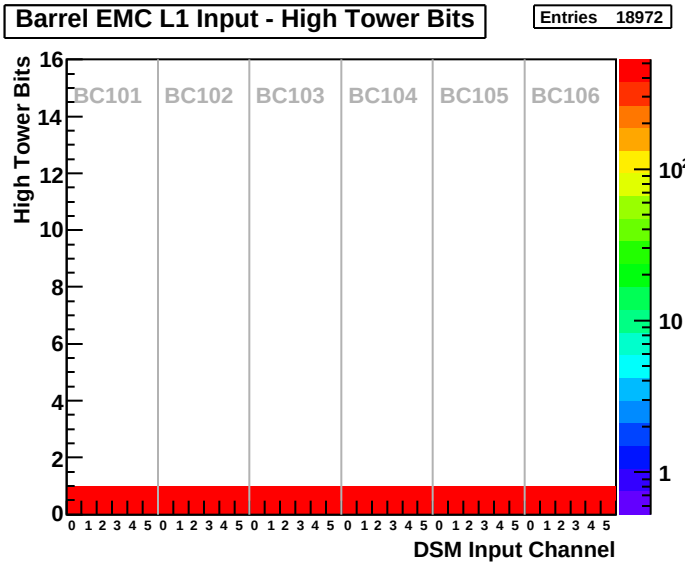
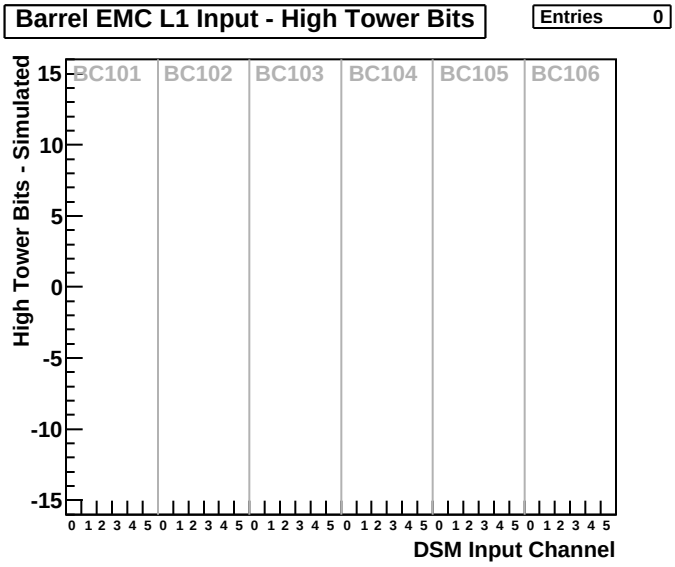

Barrel EMC L1 Input - Low Eta Sum
Entries 18972
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

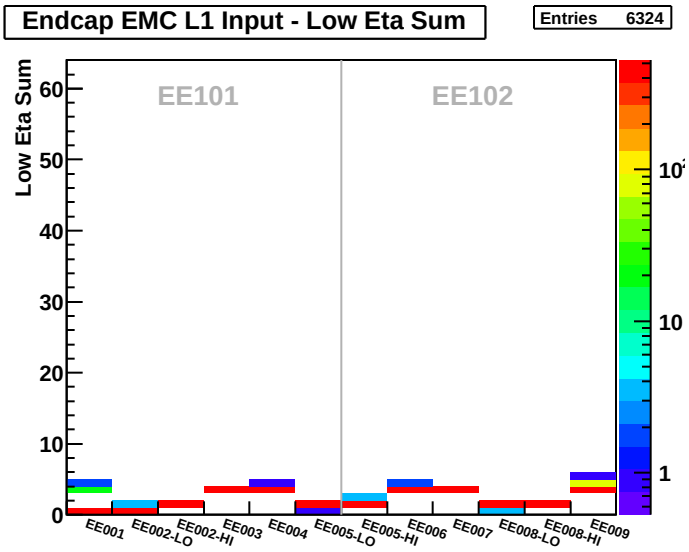

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

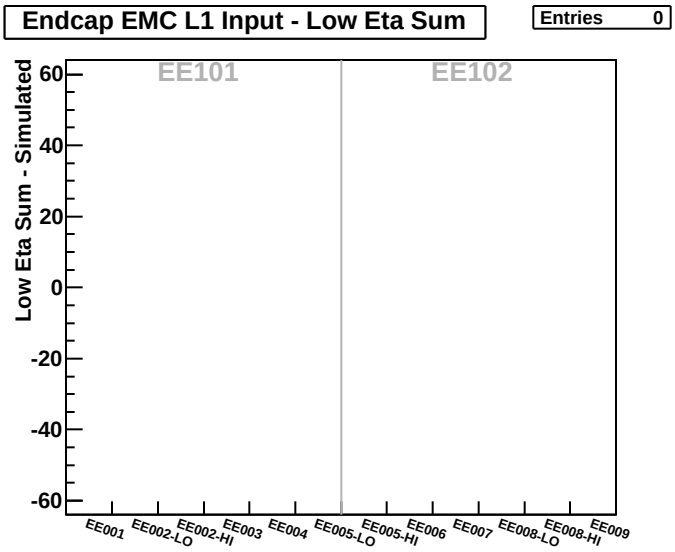

Barrel EMC L1 Input - High Eta Sum
Entries 18972
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

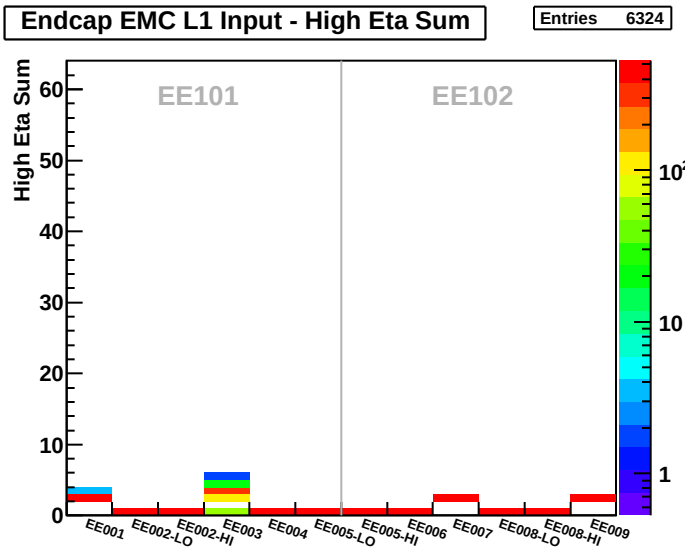

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

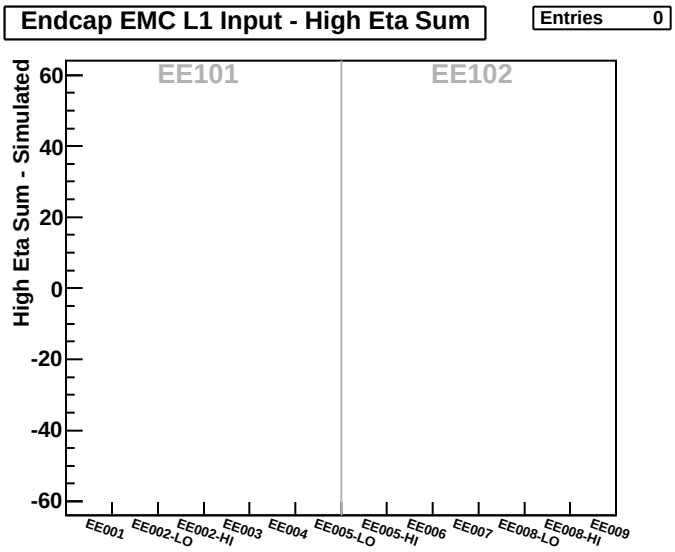

Barrel EMC L1 Input - High Tower Bits
Entries 18972
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

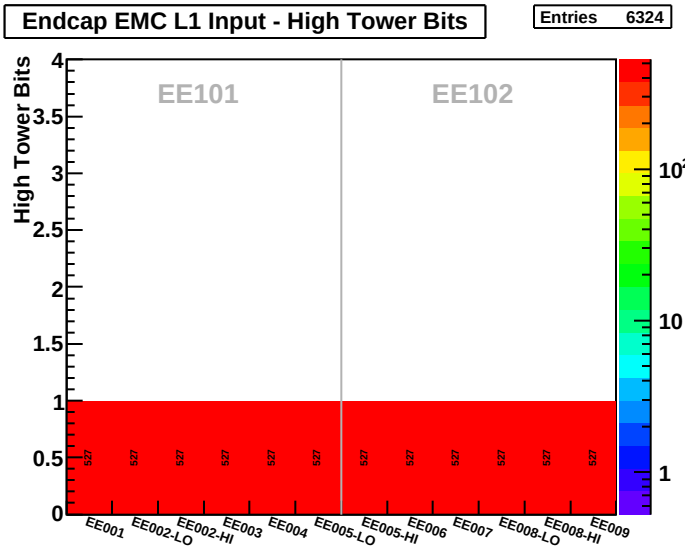

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

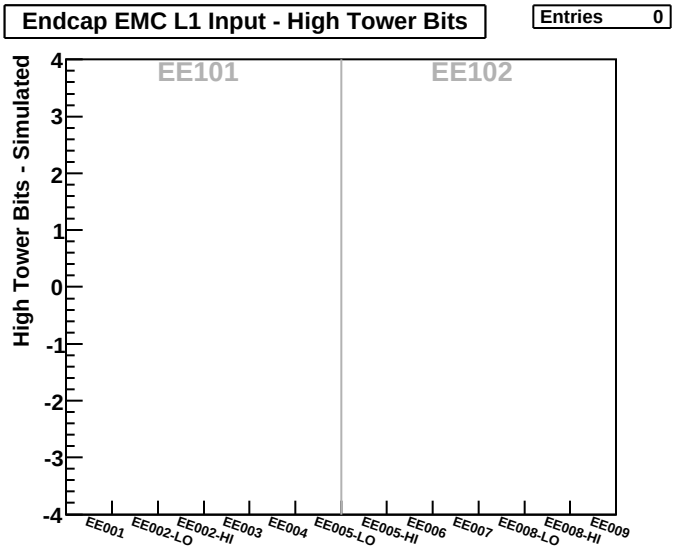

Endcap EMC L1 Input - Low Eta Sum
Entries 6324
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

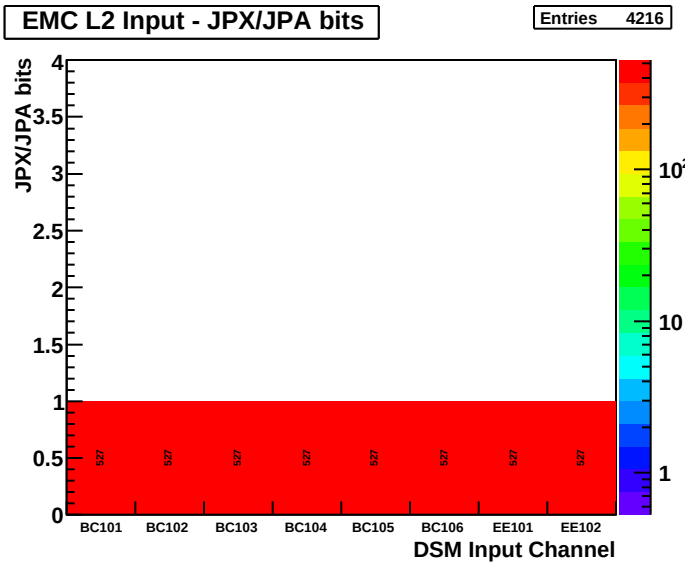

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

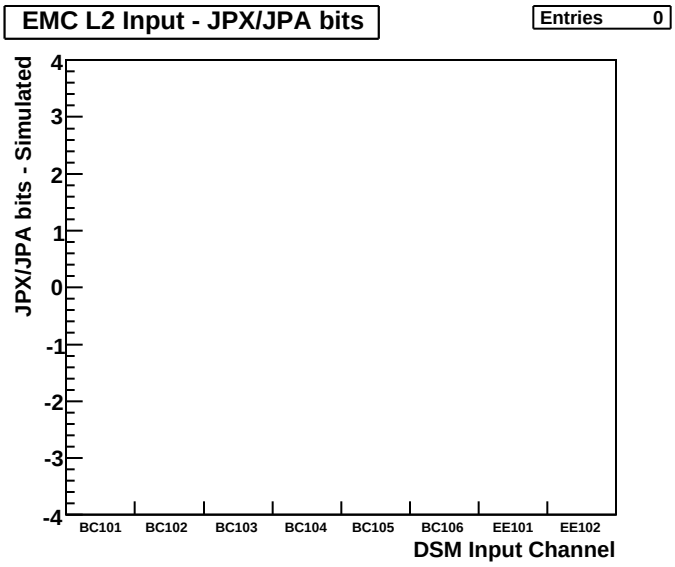

Endcap EMC L1 Input - High Eta Sum
Entries 6324
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

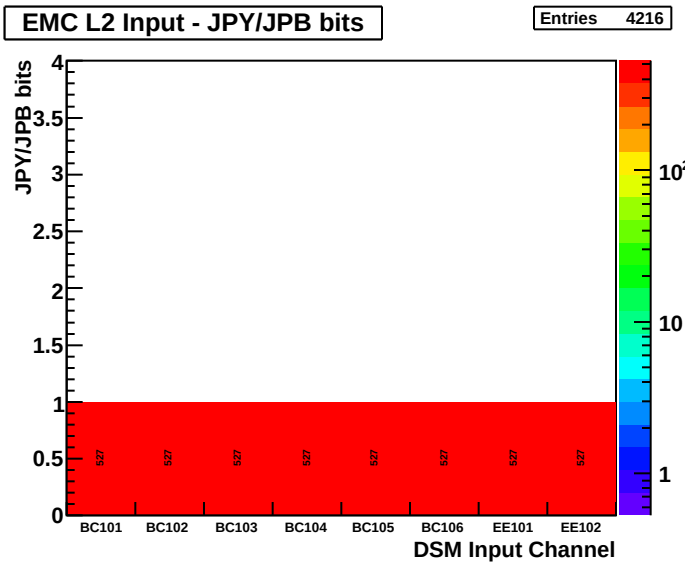

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

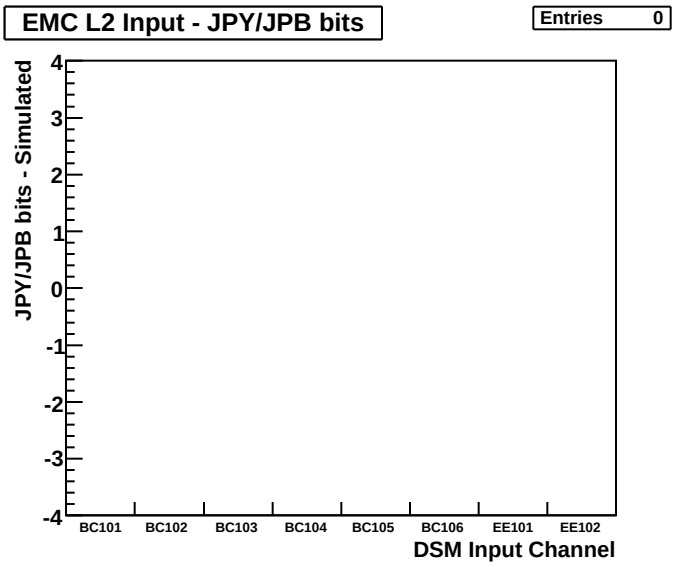

Endcap EMC L1 Input - High Tower Bits
Entries 6324
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

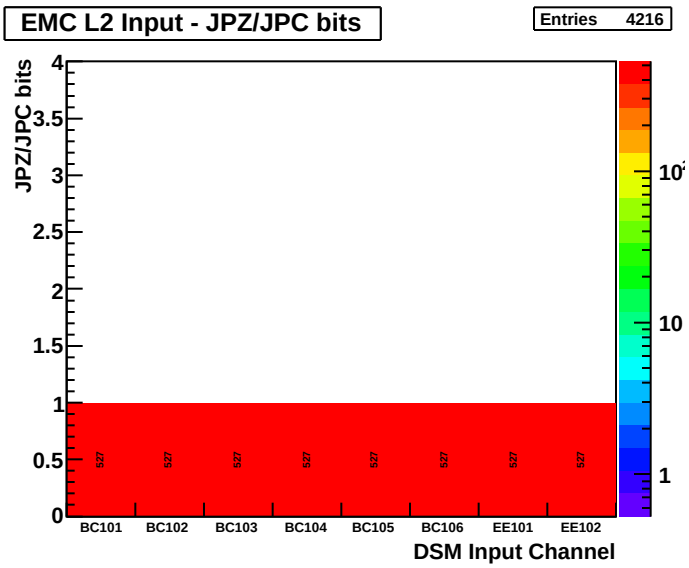

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

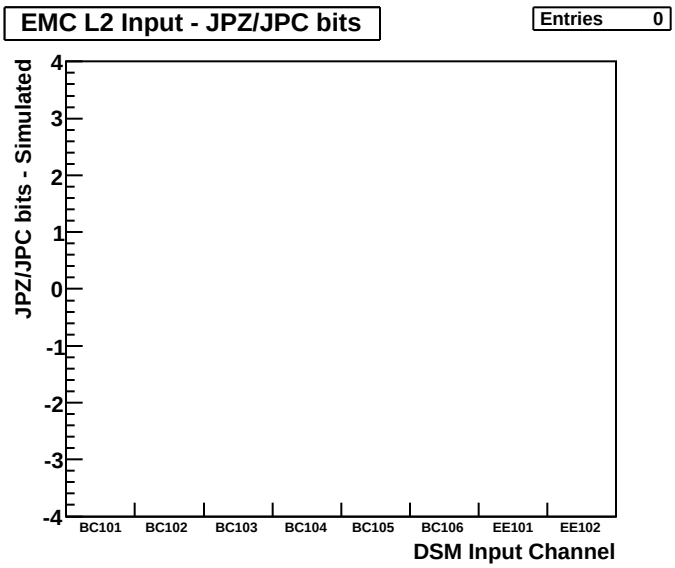

EMC L2 Input - JPX/JPA bits
Entries 4216
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

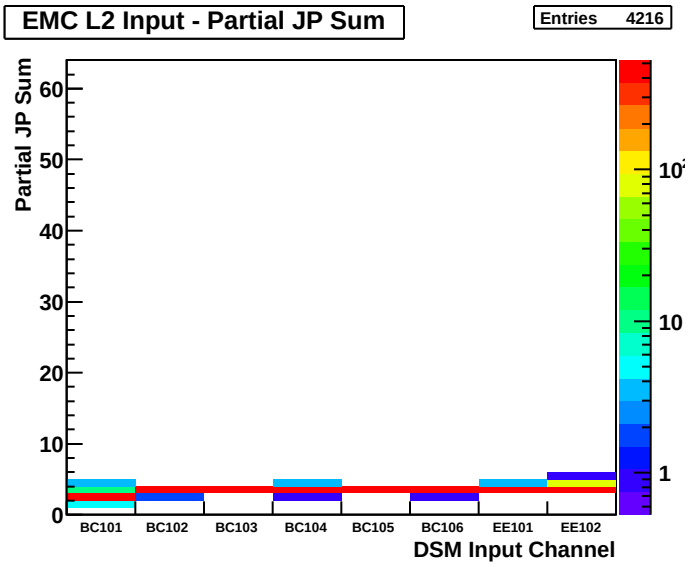

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

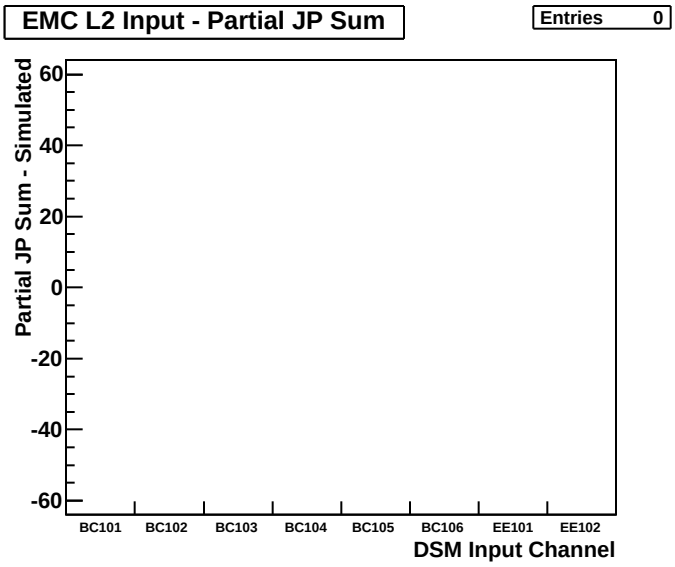

EMC L2 Input - JPY/JPB bits
Entries 4216
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

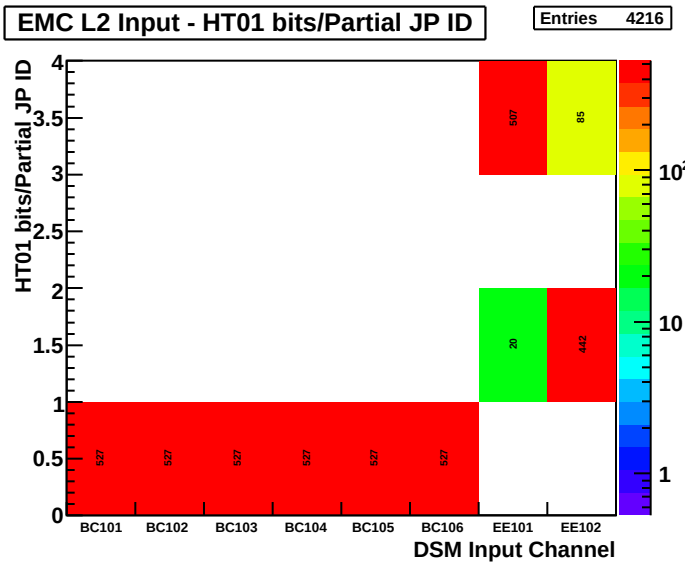

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

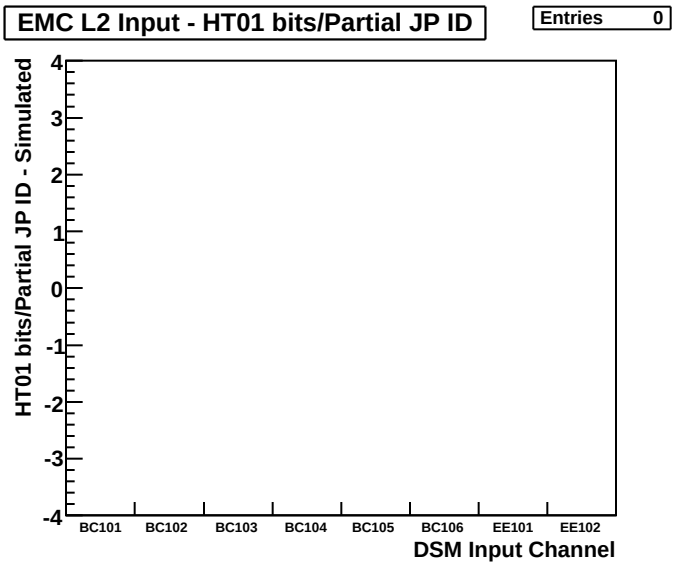

EMC L2 Input - JPZ/JPC bits
Entries 4216
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

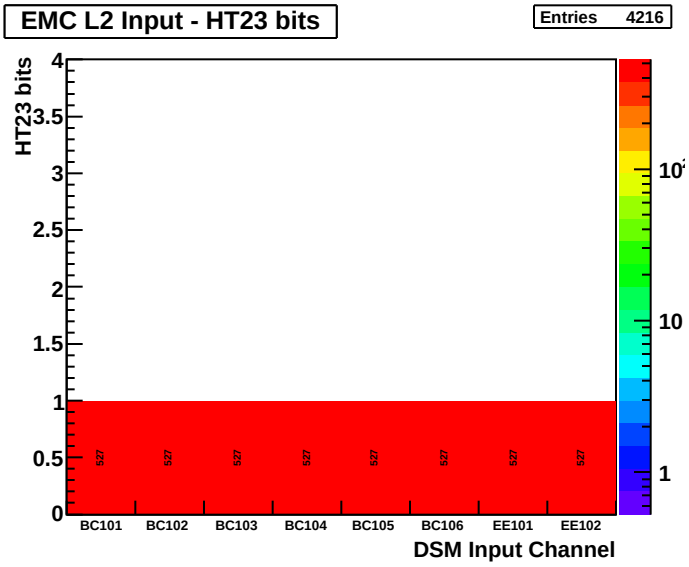

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

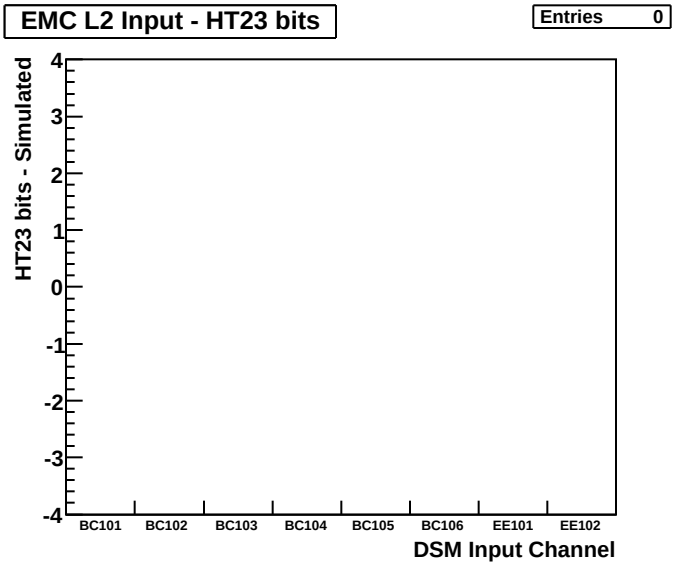

EMC L2 Input - Partial JP Sum
Entries 4216
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

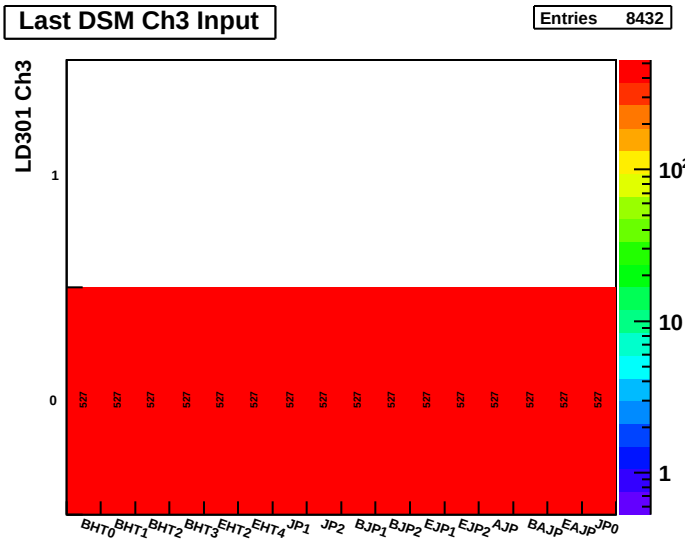

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

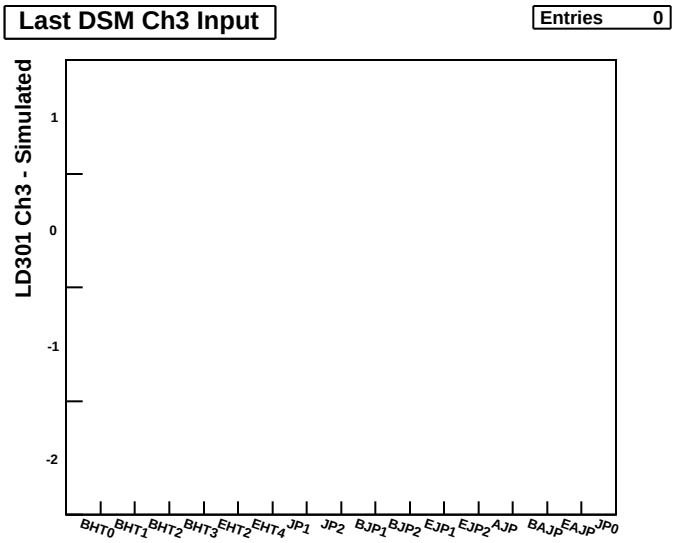

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4216
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

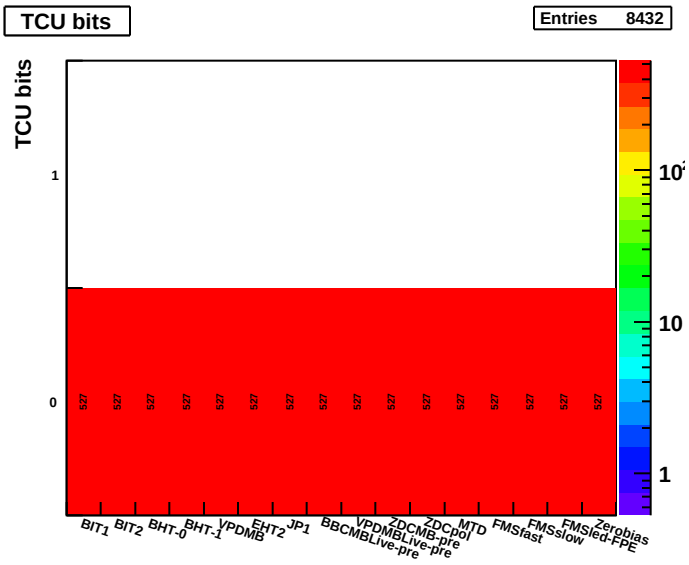

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

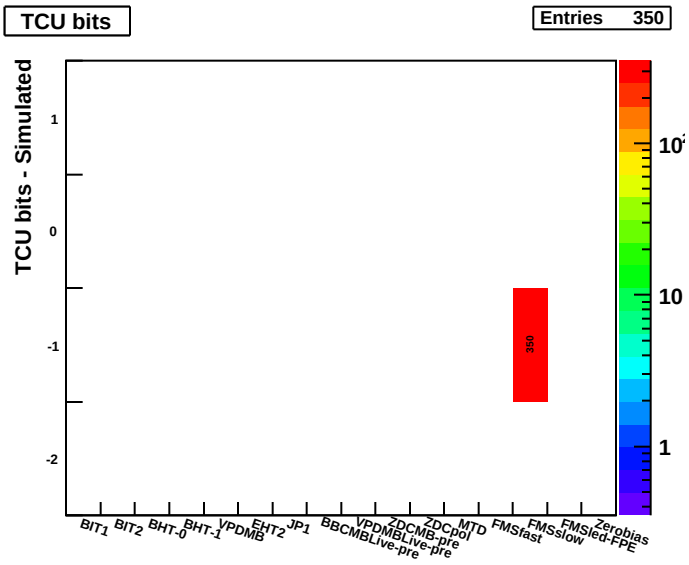

EMC L2 Input - HT23 bits
Entries 4216
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

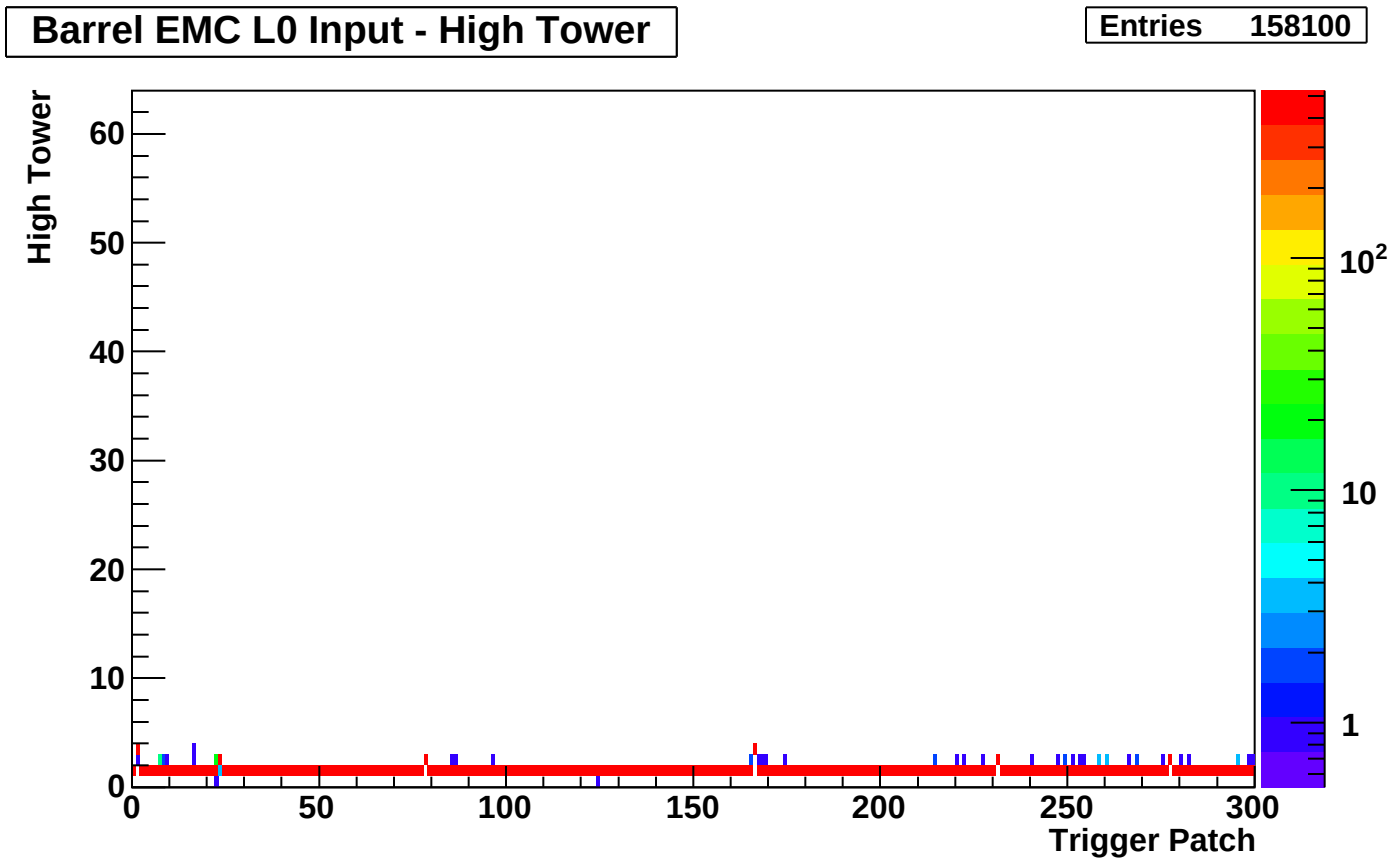

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

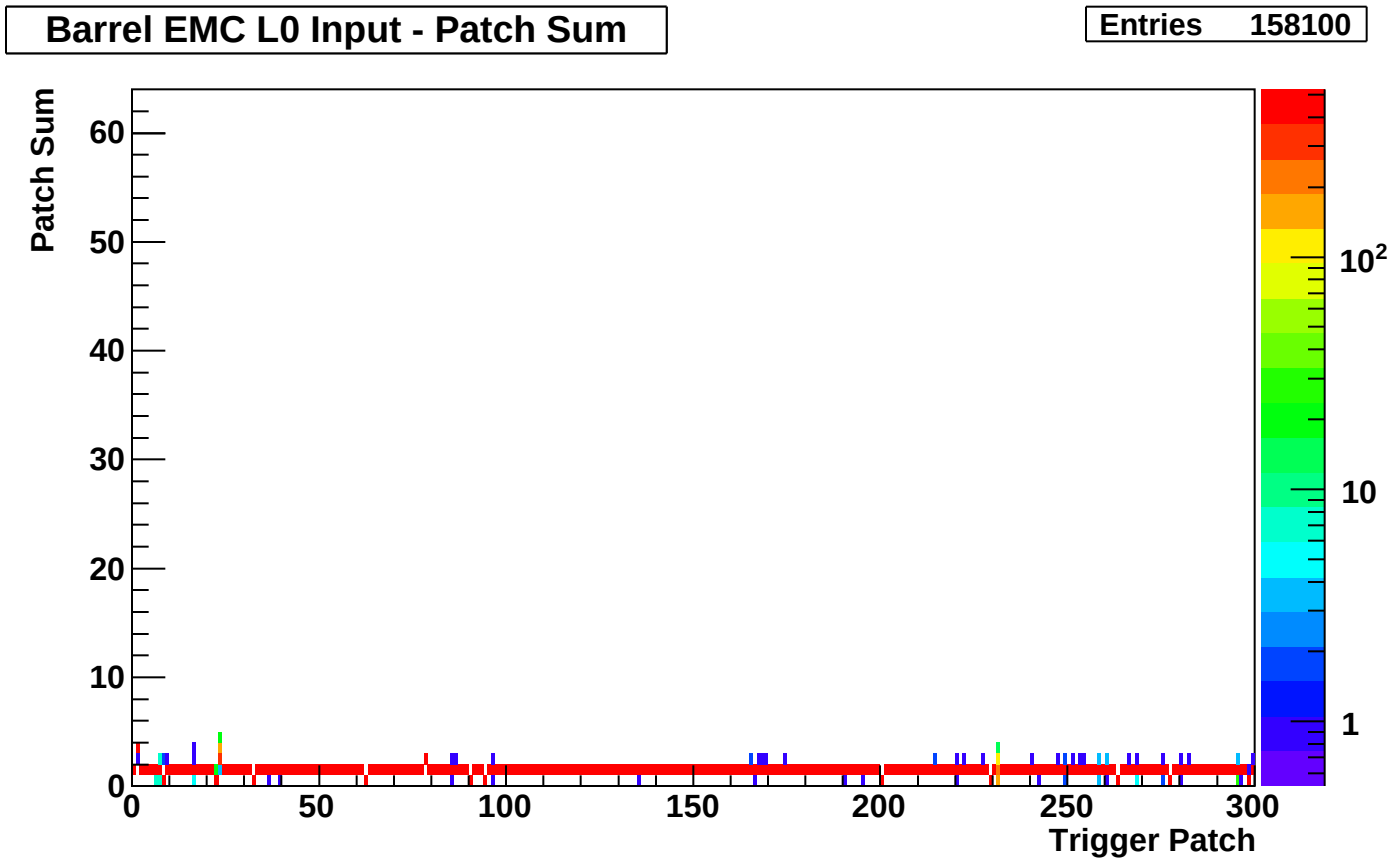

Last DSM Ch3 Input
Entries 8432
LD301 Ch3
1
0
527
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0
10
1

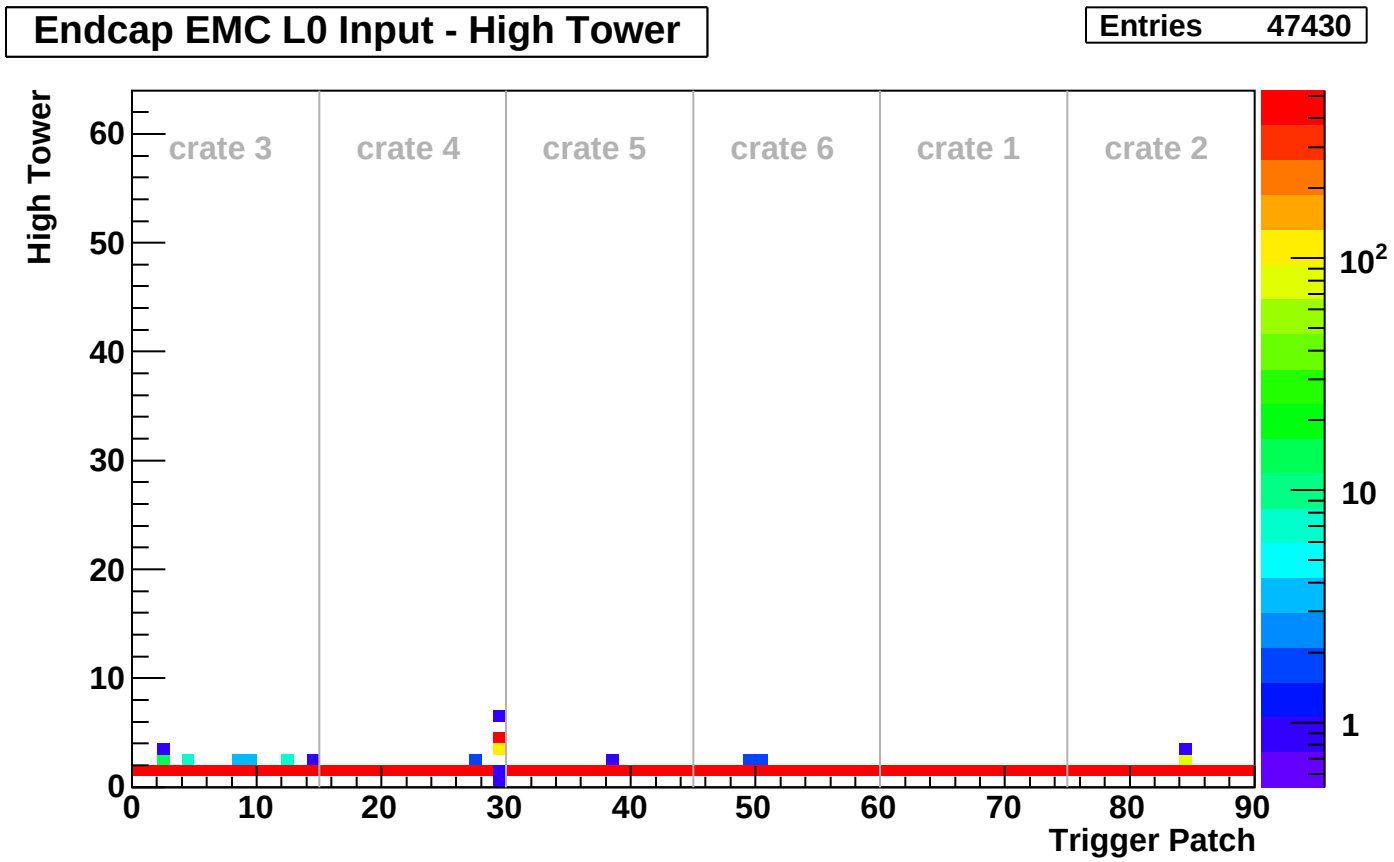

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
1
0
-1
-2
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

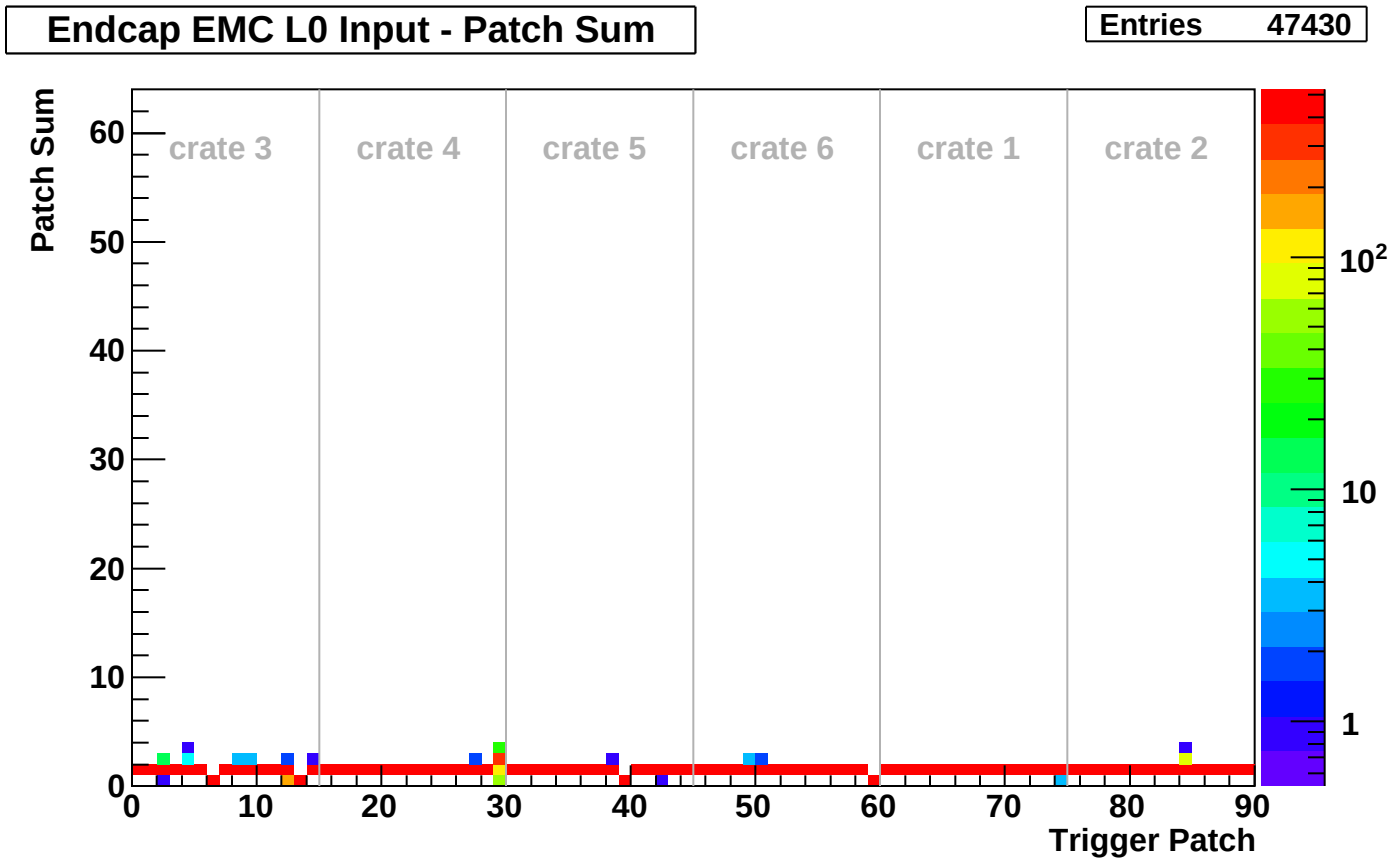

TCU bits
Entries 8432
TCU bits
1
0
527
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

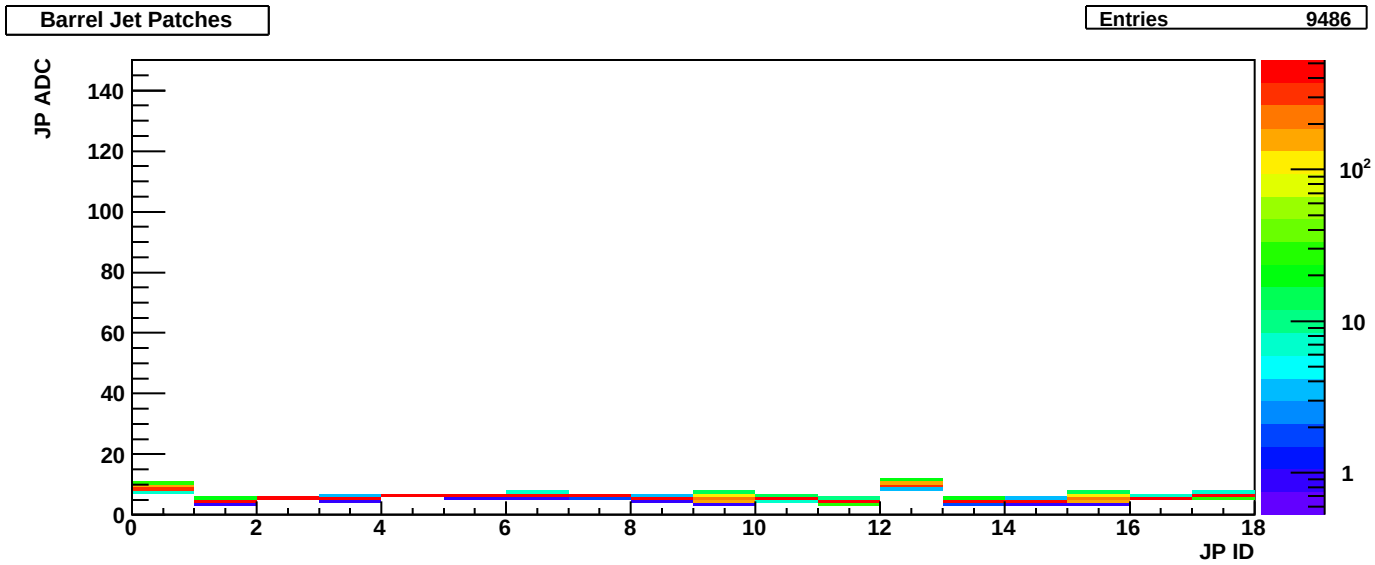

TCU bits
Entries 350
TCU bits - Simulated
1
0
-1
-2
350
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias
10
1

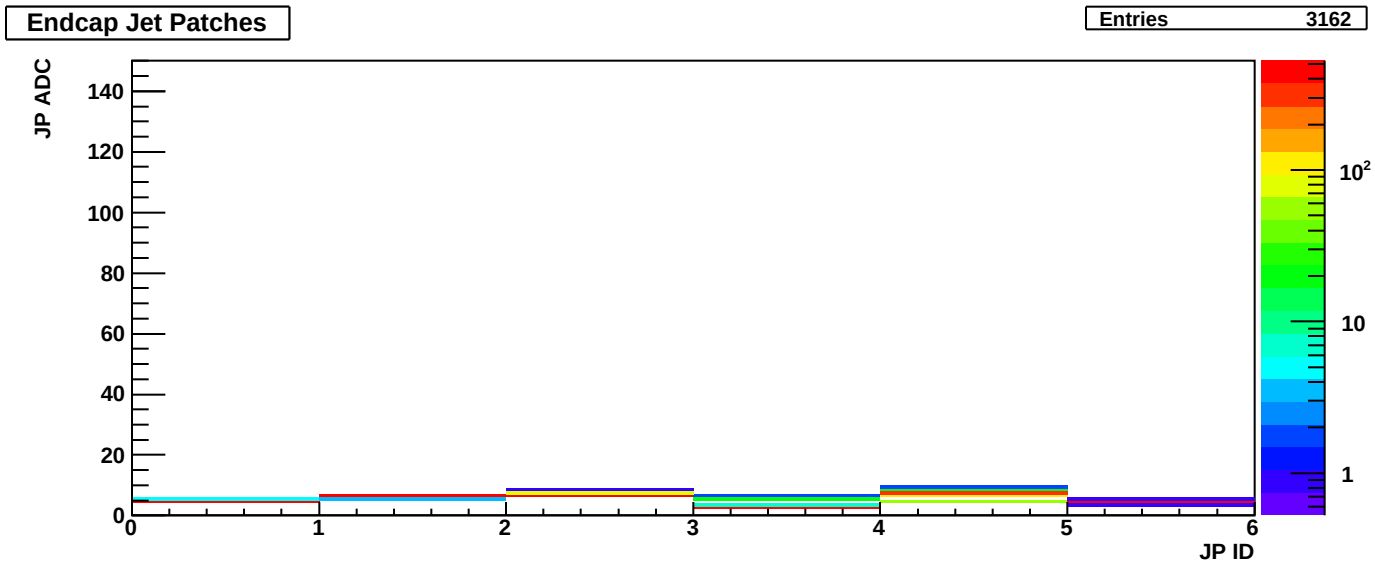

Barrel EMC L0 Input - High Tower
Entries 158100
High Tower
0
10
20
30
40
50
60
0
50
100
150
200
250
300
Trigger Patch
1
10
10^2

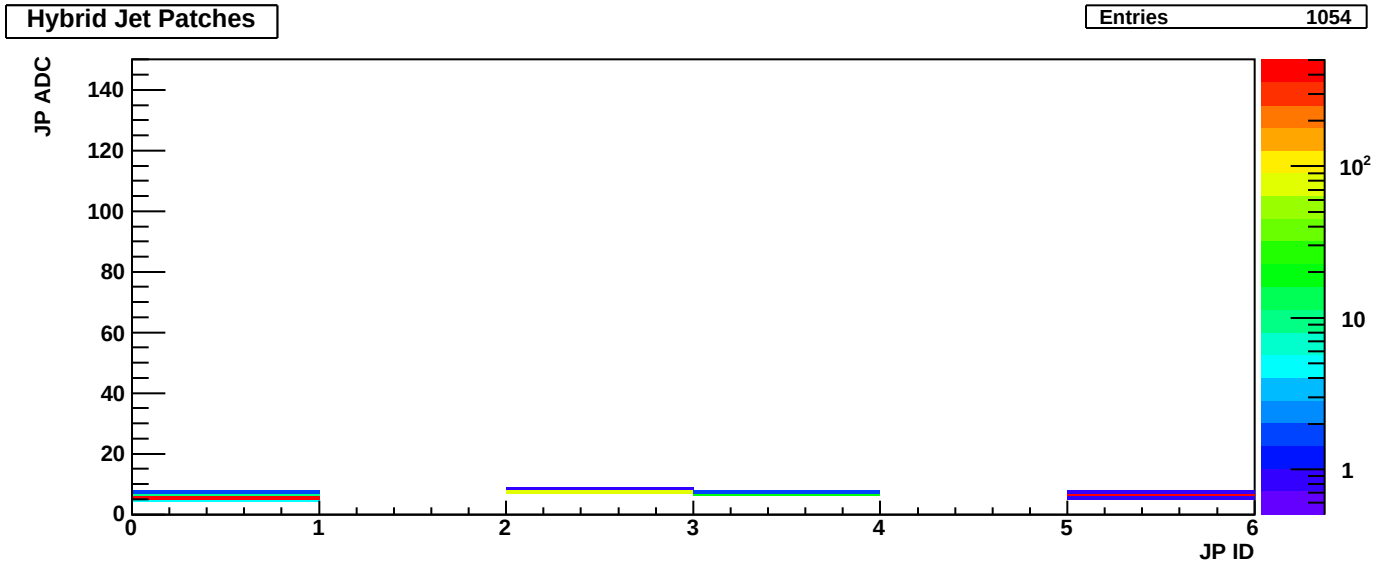

Barrel EMC L0 Input - Patch Sum
Entries 158100
Patch Sum
0
10
20
30
40
50
60
0
50
100
150
200
250
300
Trigger Patch
1
10
10^2

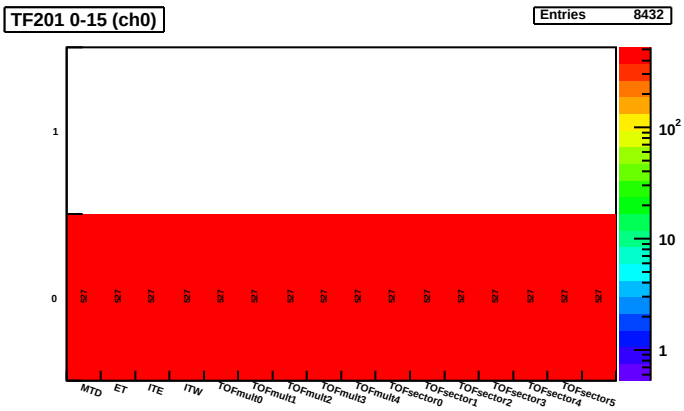

Endcap EMC L0 Input - High Tower
Entries 47430
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2

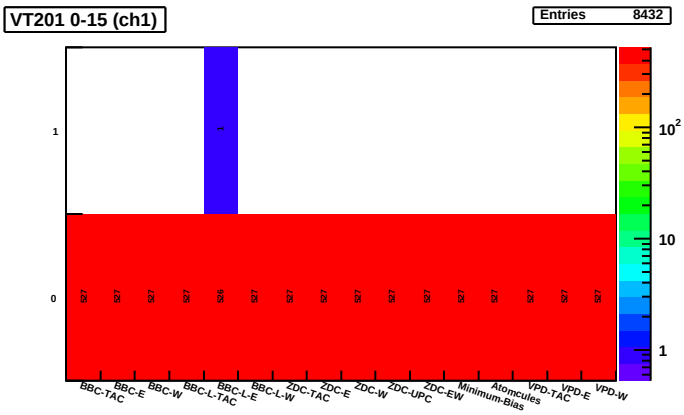

Endcap EMC L0 Input - Patch Sum
Entries 47430
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2

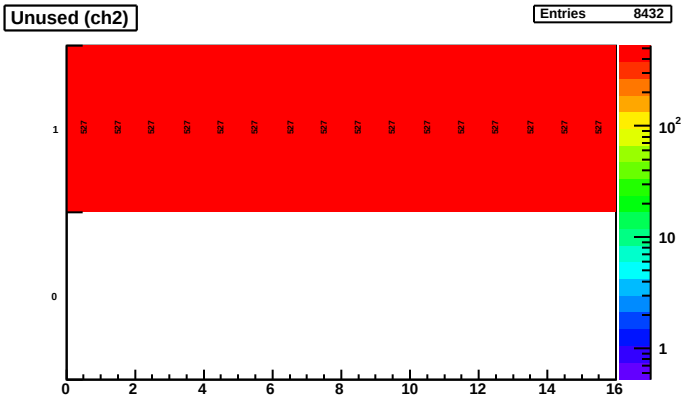

Barrel Jet Patches
Entries 9486
JP ADC
JP ID

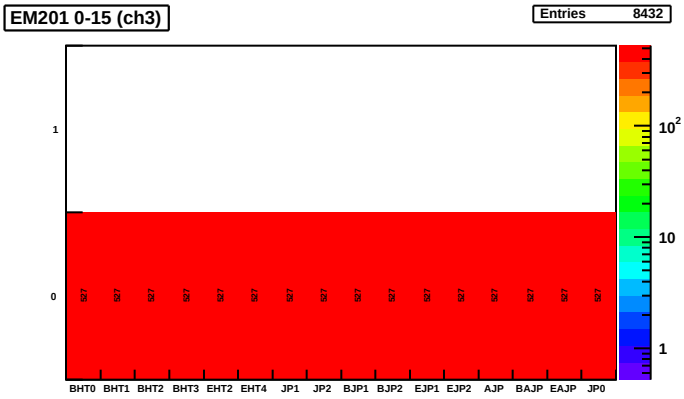

Endcap Jet Patches
Entries 3162
JP ADC
JP ID

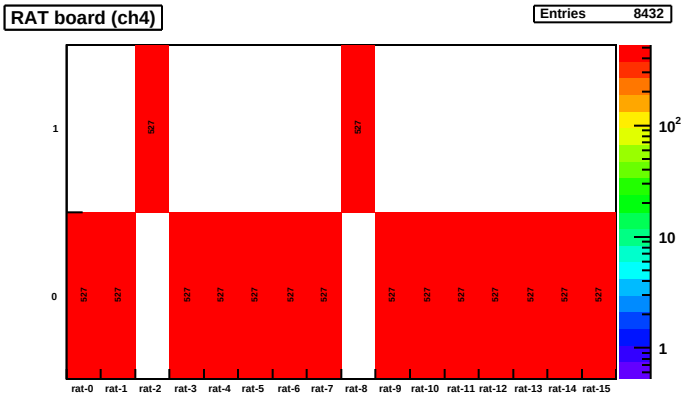

Hybrid Jet Patches
Entries 1054
JP ADC
JP ID

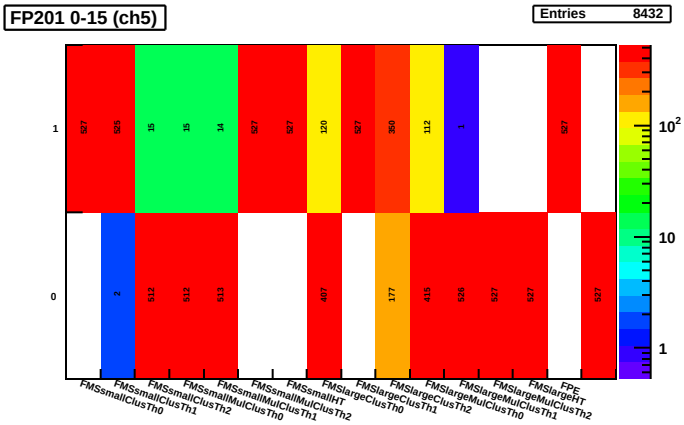

TF201 0-15 (ch0)
Entries 8432
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

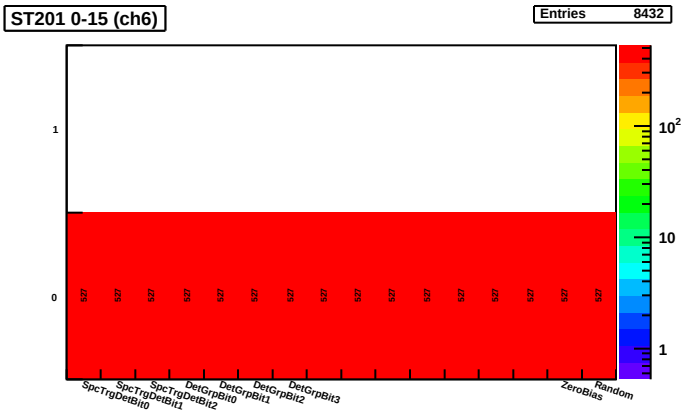

VT201 0-15 (ch1)
Entries 8432
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

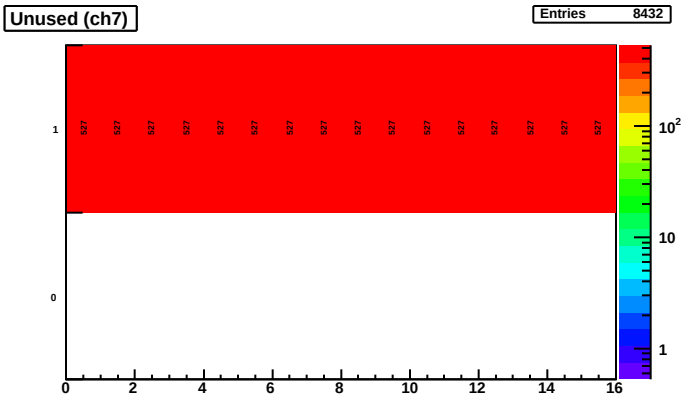

Unused (ch2)
Entries 8432

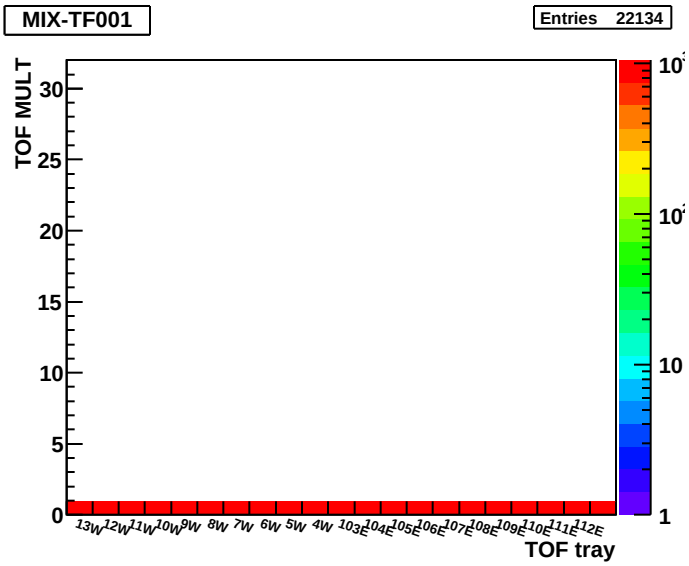

EM201 0-15 (ch3)
Entries 8432
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

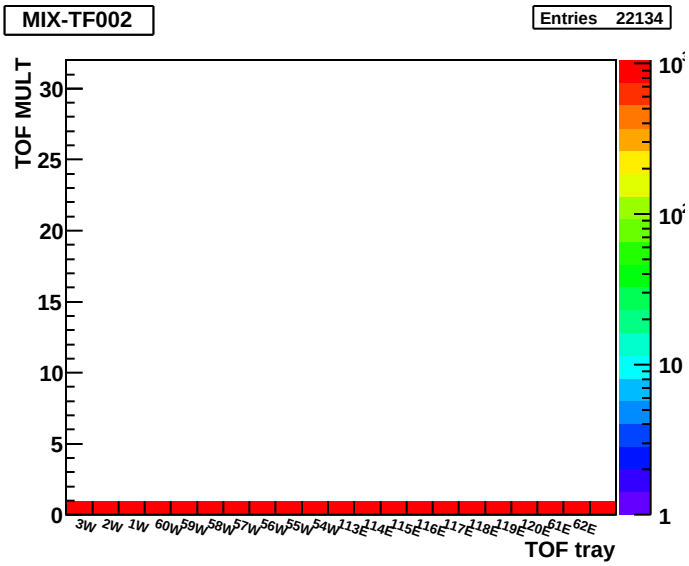

RAT board (ch4)
Entries 8432
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

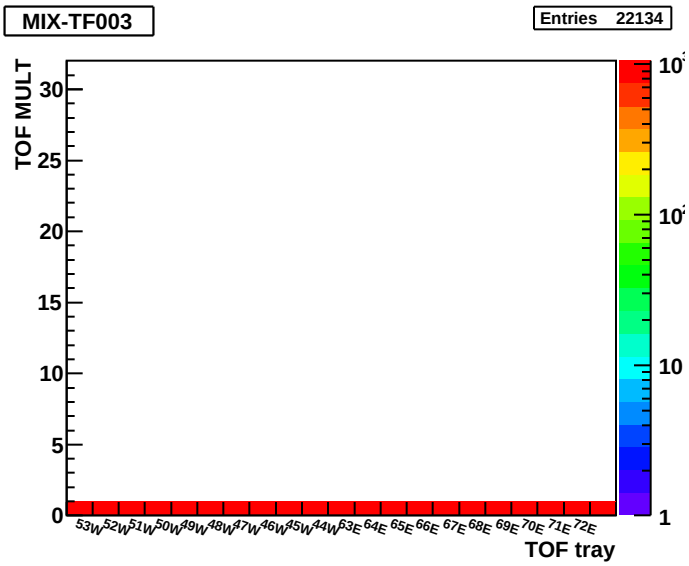

FP201 0-15 (ch5)
Entries 8432
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

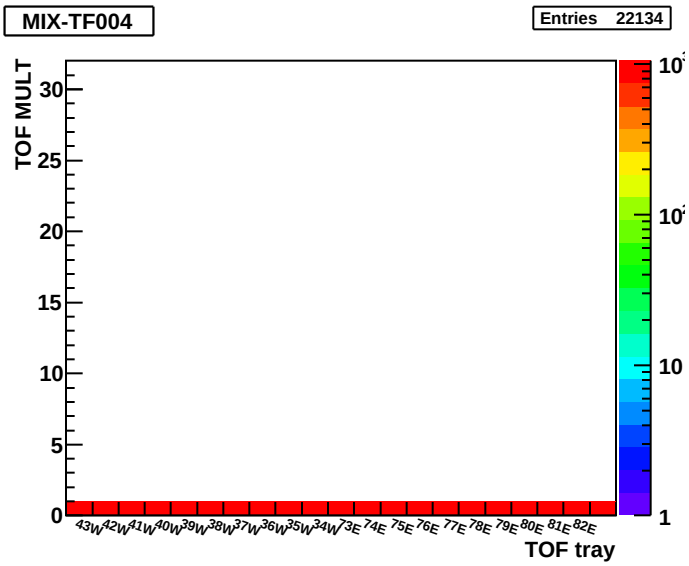

ST201 0-15 (ch6)
Entries 8432
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

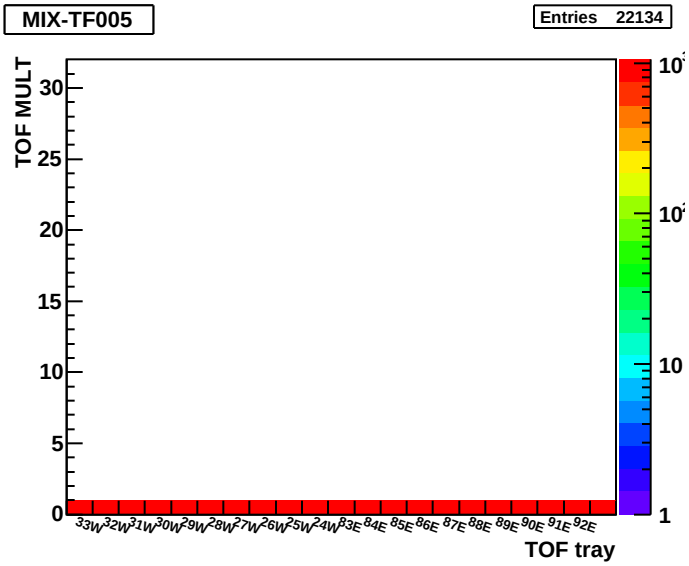

Unused (ch7)
Entries 8432

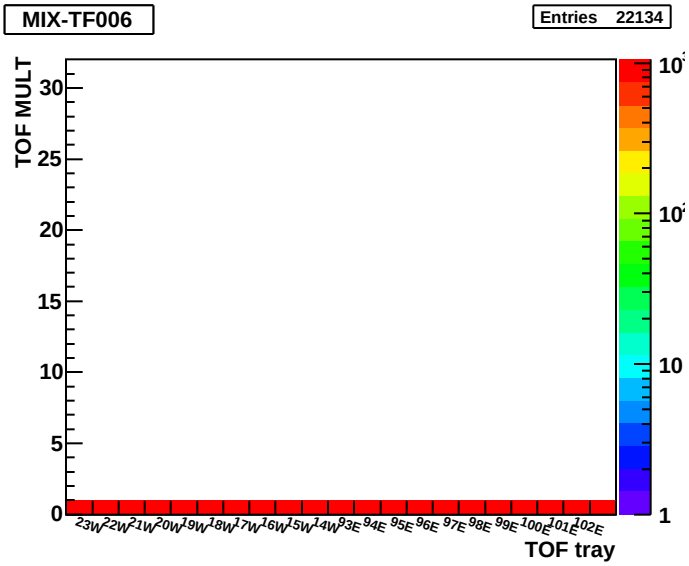

MIX-TF001
Entries 22134
TOF MULT
TOF tray

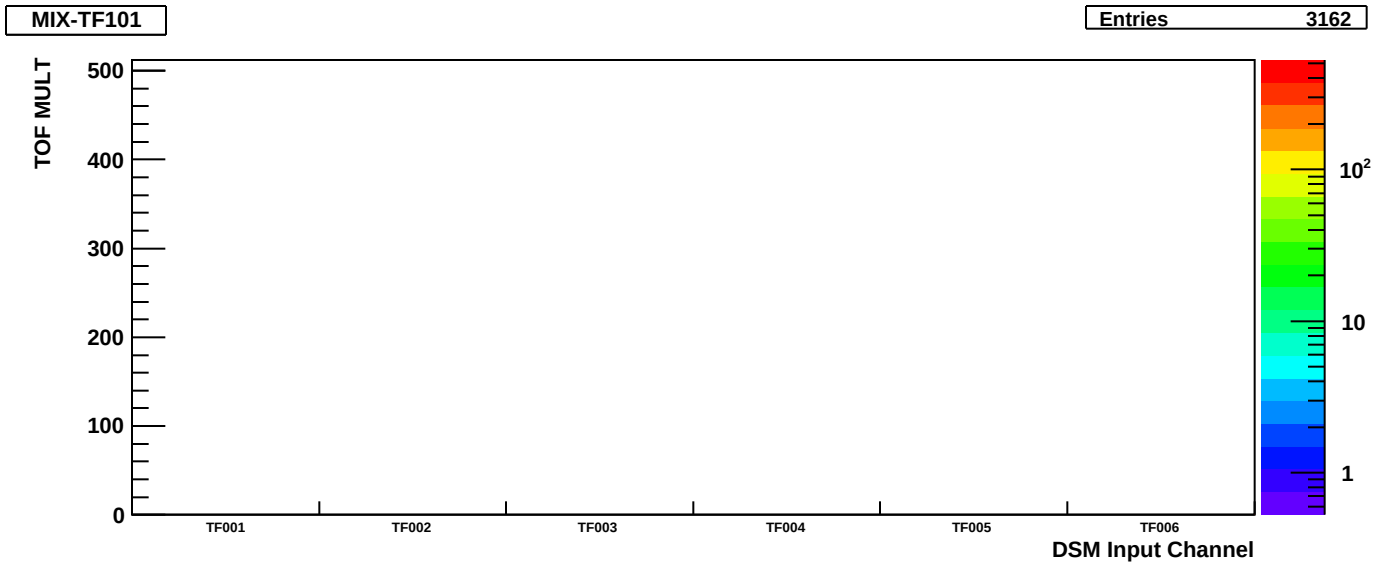

MIX-TF002
Entries 22134
TOF MULT
TOF tray

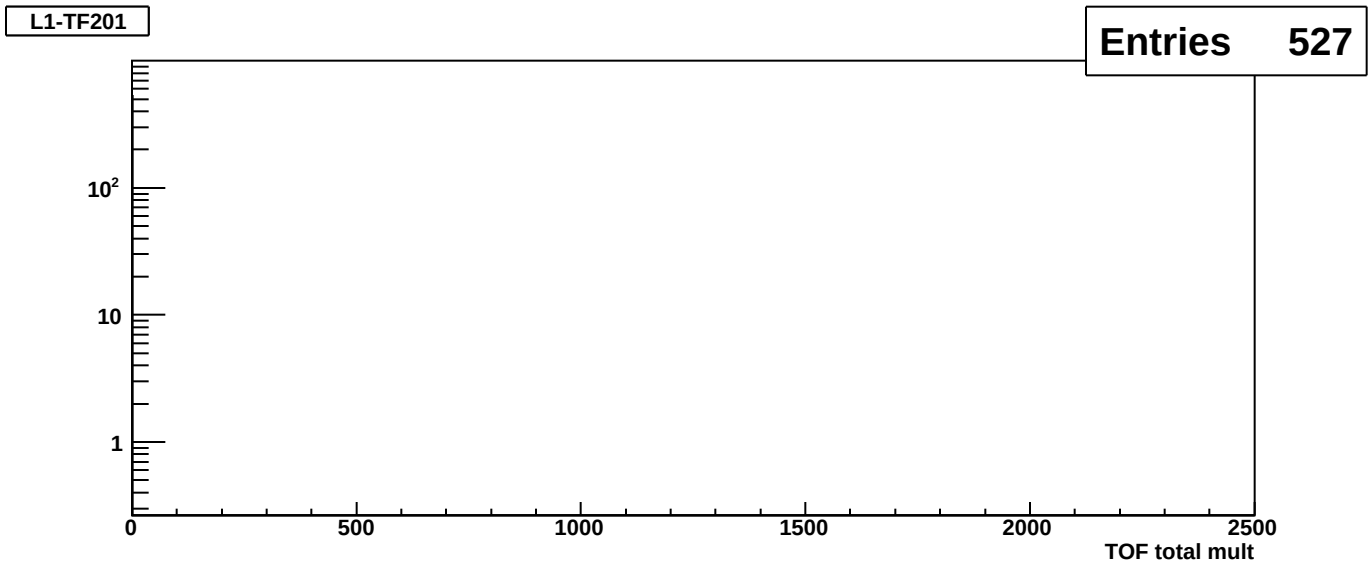

MIX-TF003
Entries 22134
TOF MULT
TOF tray

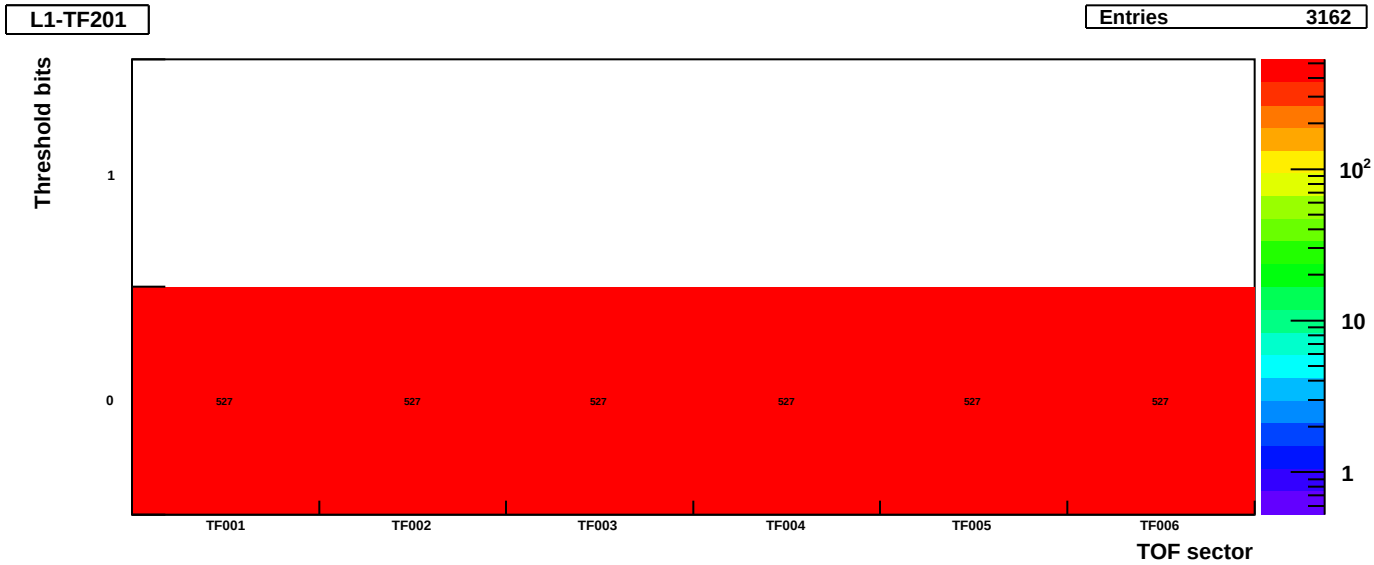

MIX-TF004
Entries 22134
TOF MULT
TOF tray

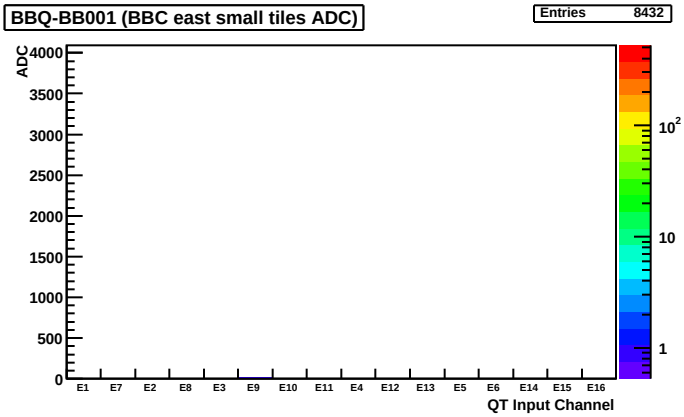

MIX-TF005
Entries 22134
TOF MULT
TOF tray

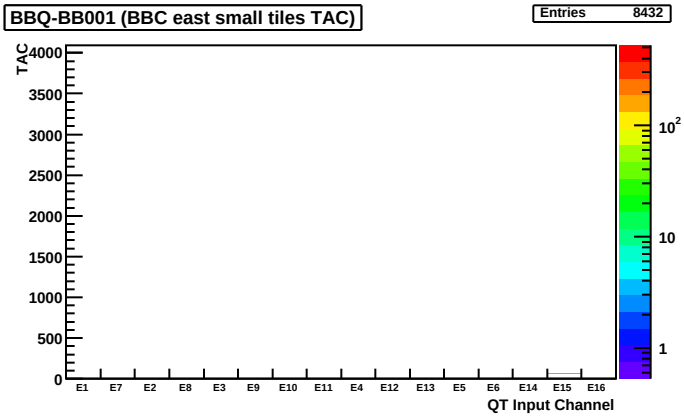

MIX-TF006
Entries 22134
TOF MULT
TOF tray

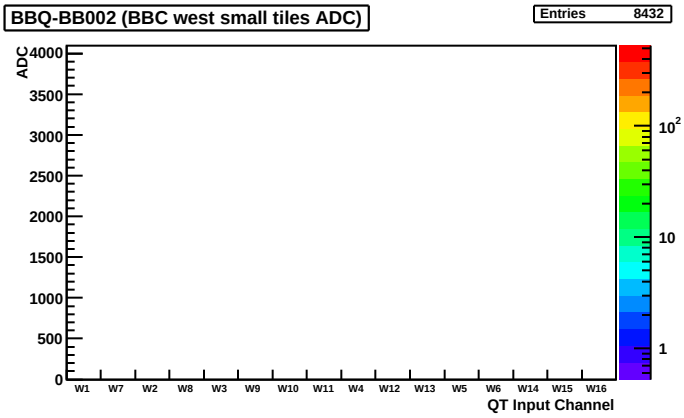

MIX-TF101
Entries 3162
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^2
10
1

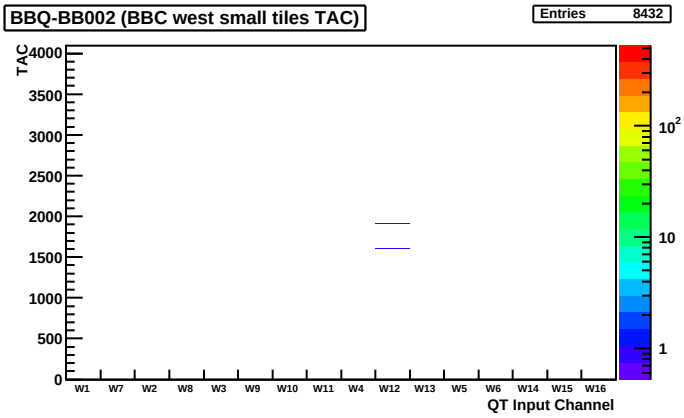

L1-TF201
Entries 527
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

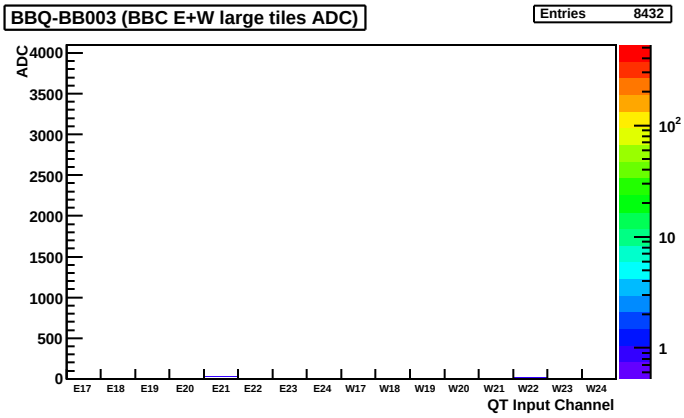

L1-TF201
Entries 3162
Threshold bits
1
0
527
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^2
10
1

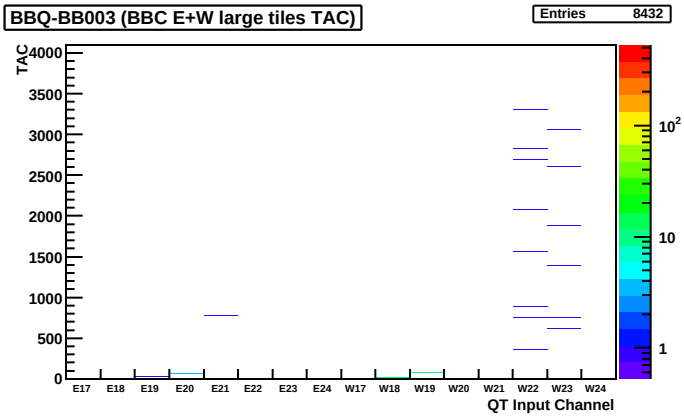

BBQ-BB001 (BBC east small tiles ADC)
Entries 8432
ADC
QT Input Channel

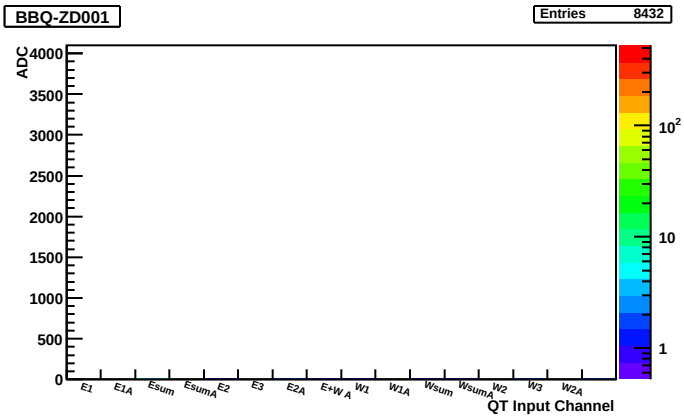

BBQ-BB001 (BBC east small tiles TAC)
Entries 8432
TAC
QT Input Channel

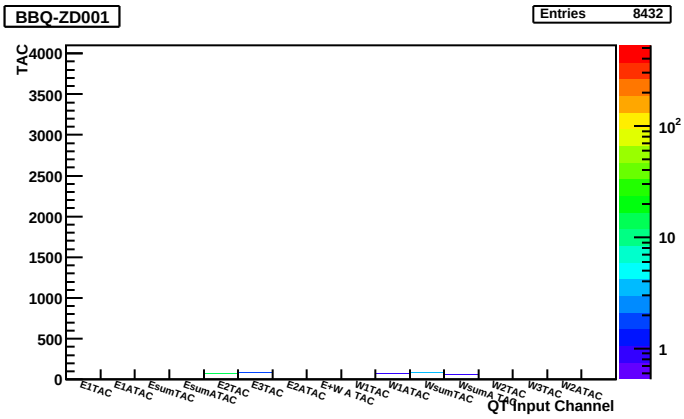

BBQ-BB002 (BBC west small tiles ADC)
Entries 8432
ADC
QT Input Channel

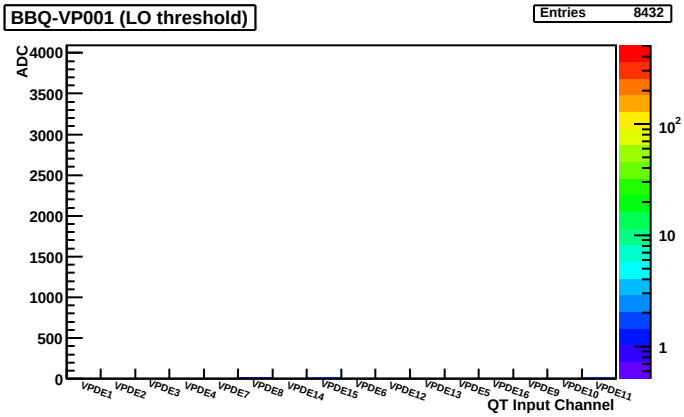

BBQ-BB002 (BBC west small tiles TAC)
Entries 8432
TAC
QT Input Channel

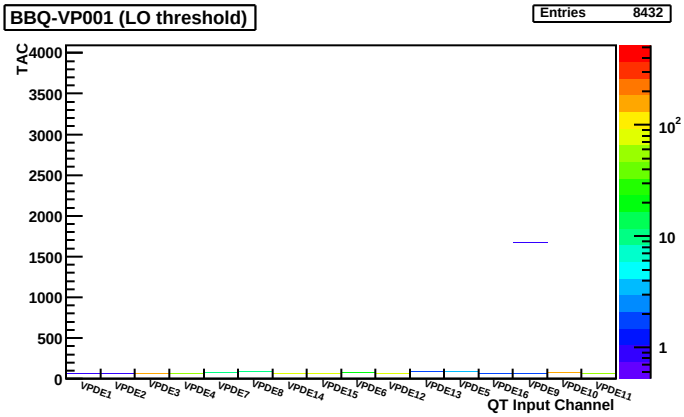

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8432
ADC
QT Input Channel

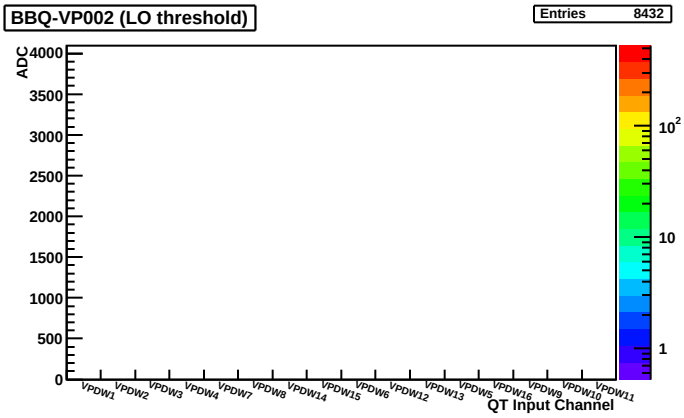

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8432
TAC
QT Input Channel

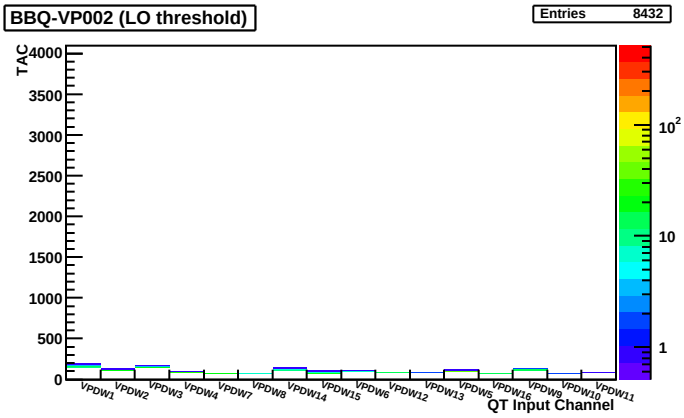

BBQ-ZD001
Entries 8432
ADC
QT Input Channel

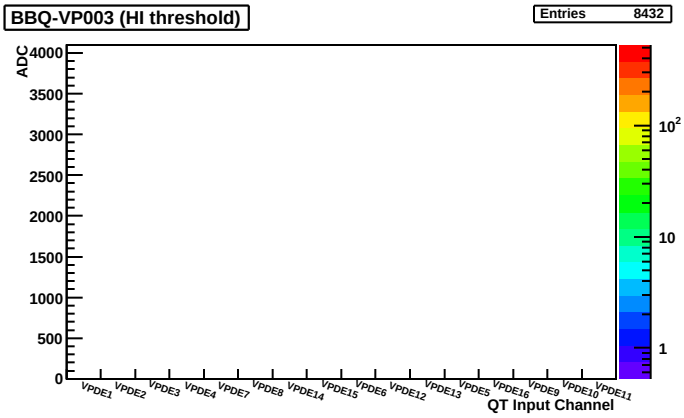

BBQ-ZD001
Entries 8432
TAC
QT Input Channel

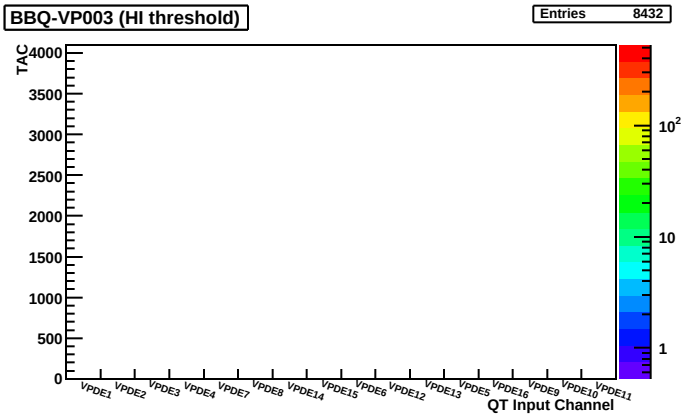

BBQ-VP001 (LO threshold)
Entries 8432
ADC
QT Input Channel

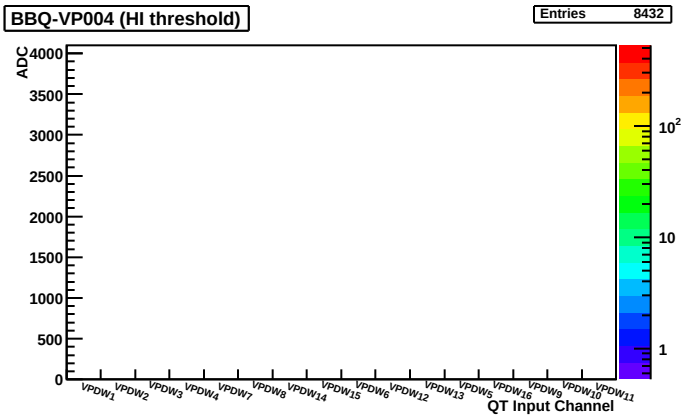

BBQ-VP001 (LO threshold)
Entries 8432
TAC
QT Input Channel

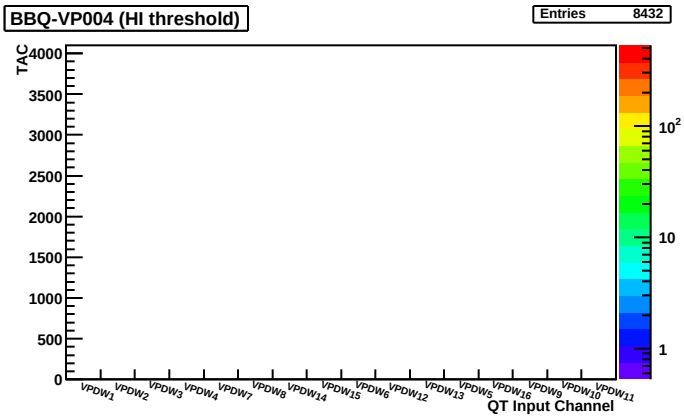

BBQ-VP002 (LO threshold)
Entries 8432
ADC
QT Input Channel

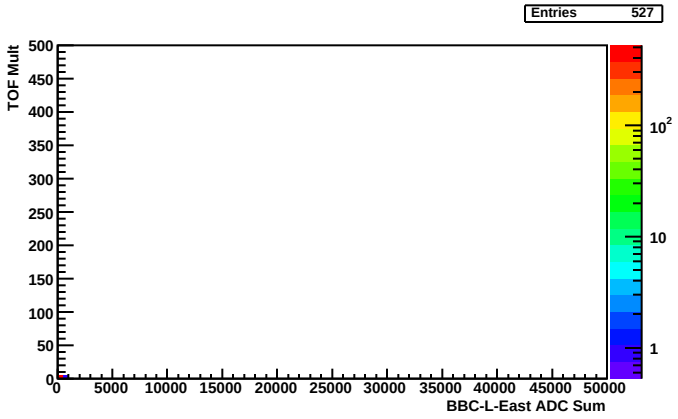

BBQ-VP002 (LO threshold)
Entries 8432
TAC
QT Input Channel

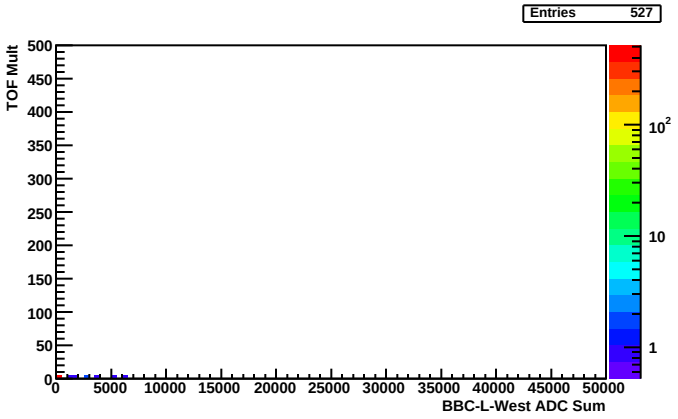

BBQ-VP003 (HI threshold)
Entries 8432
ADC
QT Input Channel

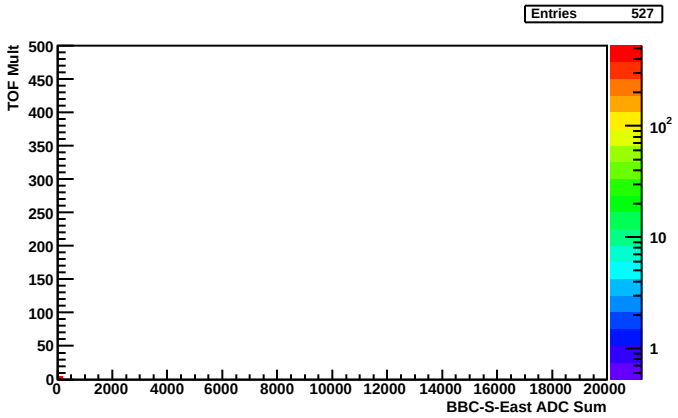

BBQ-VP003 (HI threshold)
Entries 8432
TAC
QT Input Channel

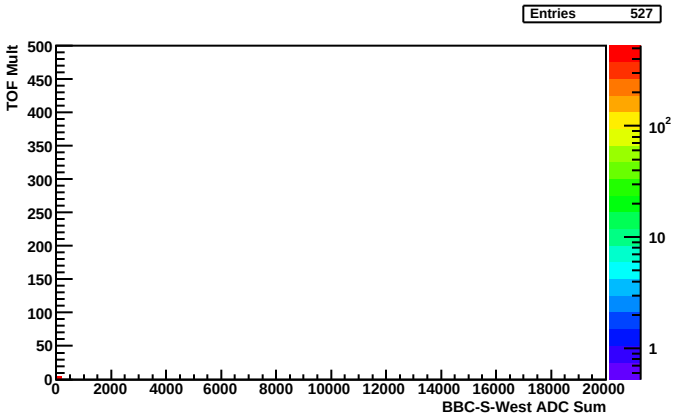

BBQ-VP004 (HI threshold)
Entries 8432
ADC
QT Input Channel

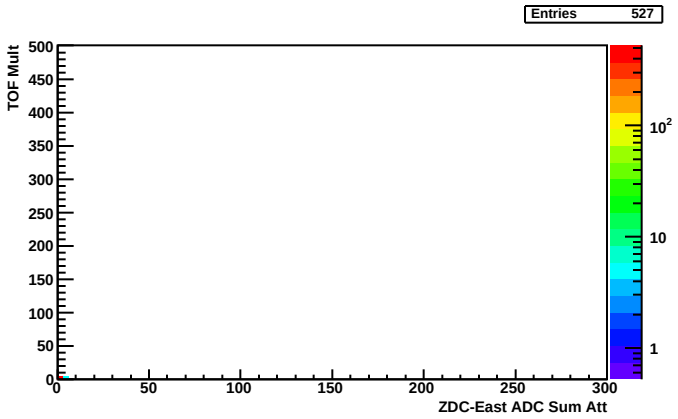

BBQ-VP004 (HI threshold)
Entries 8432
TAC
QT Input Channel

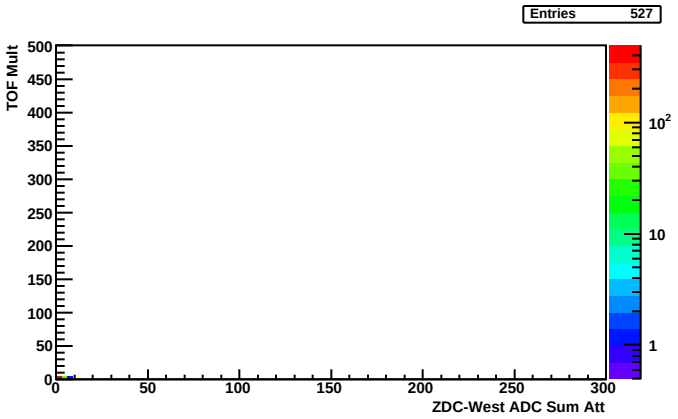

Entries 527
TOF Mult
BBC-L-East ADC Sum

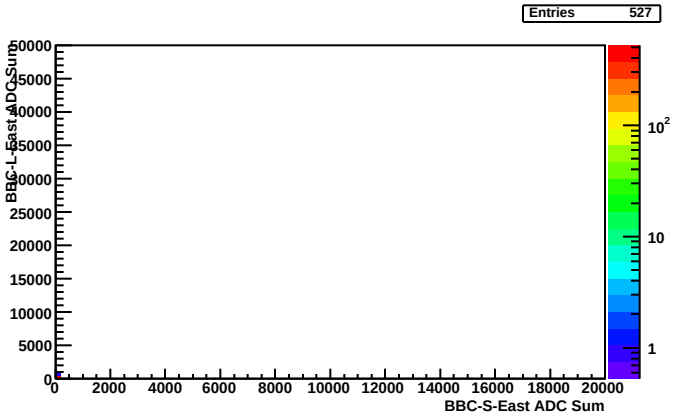

Entries 527
TOF Mult
BBC-L-West ADC Sum

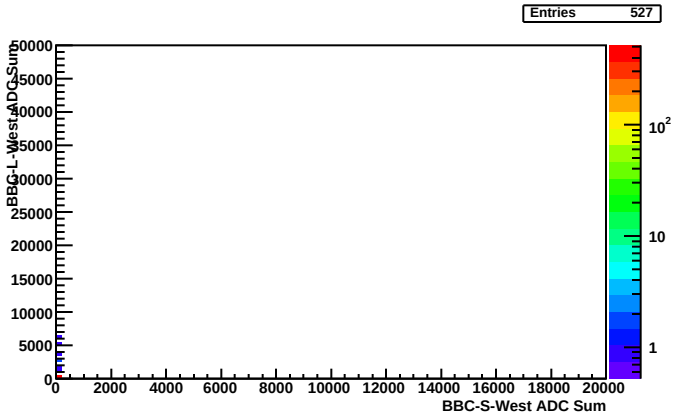

Entries 527
TOF Mult
BBC-S-East ADC Sum

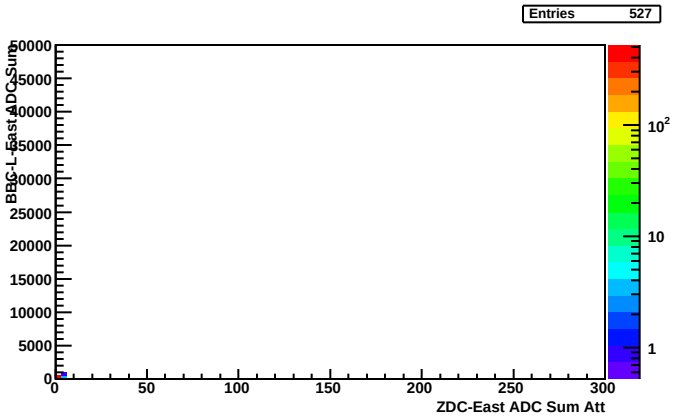

Entries 527
TOF Mult
BBC-S-West ADC Sum

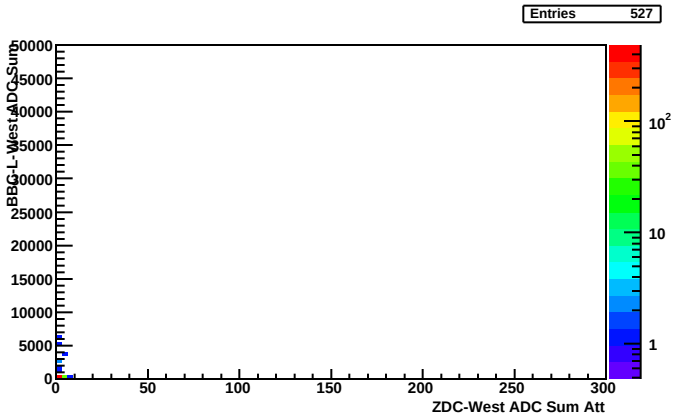

Entries 527
TOF Mult
ZDC-East ADC Sum Att

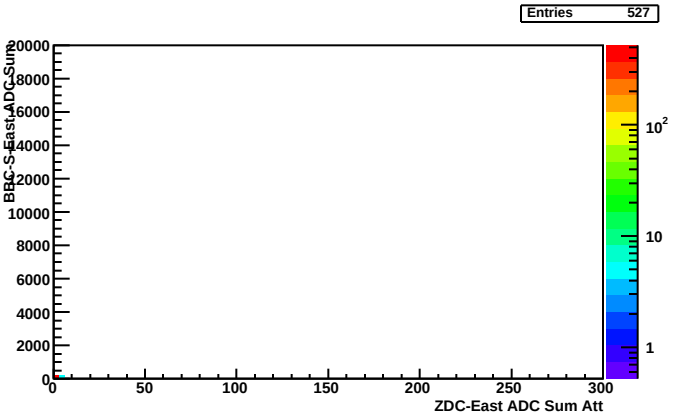

Entries 527
TOF Mult
ZDC-West ADC Sum Att

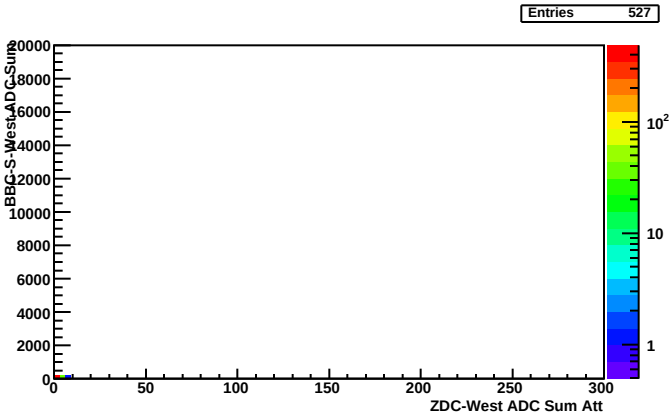

Entries 527
BBC-L-East ADC Sum
BBC-S-East ADC Sum

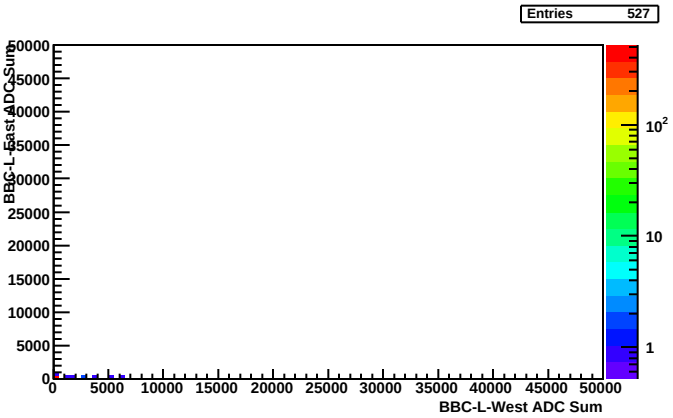

Entries 527
BBC-L-West ADC Sum
BBC-S-West ADC Sum

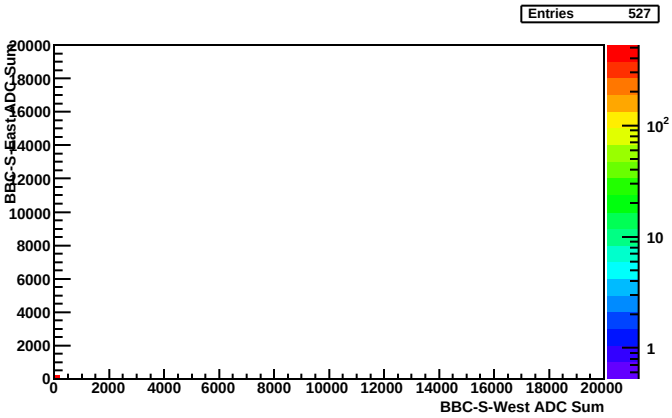

Entries 527
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

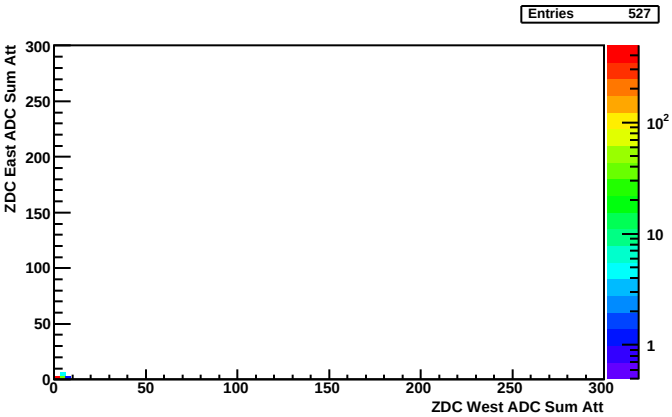

Entries 527
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

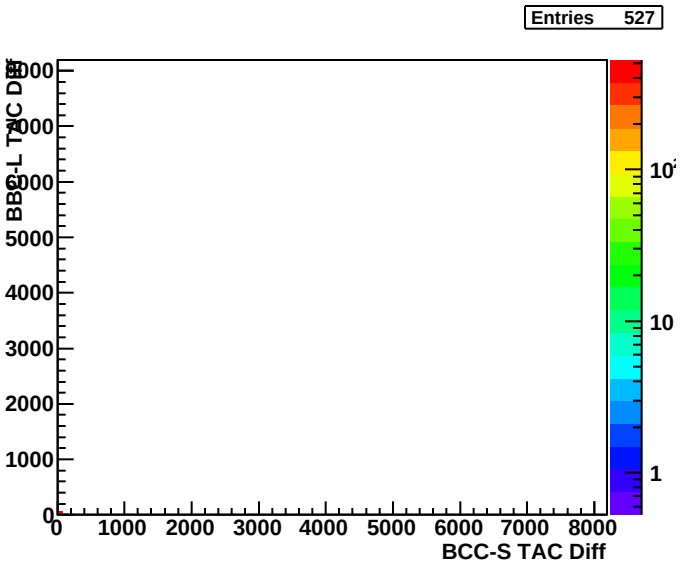

Entries 527
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

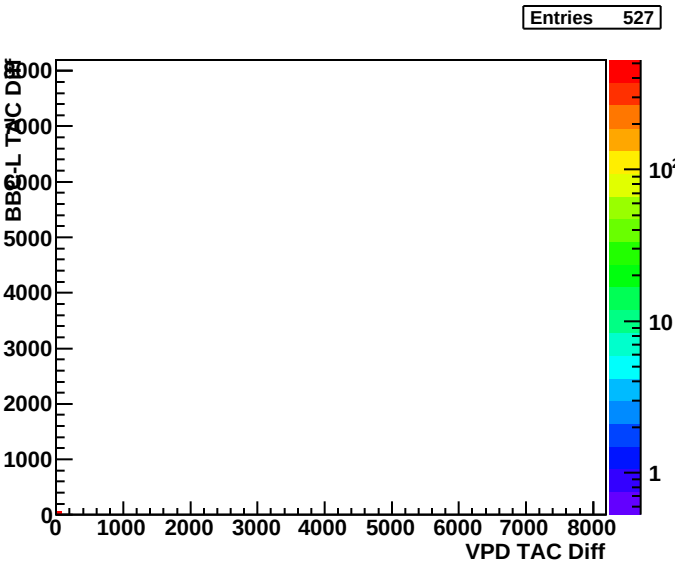

Entries 527
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

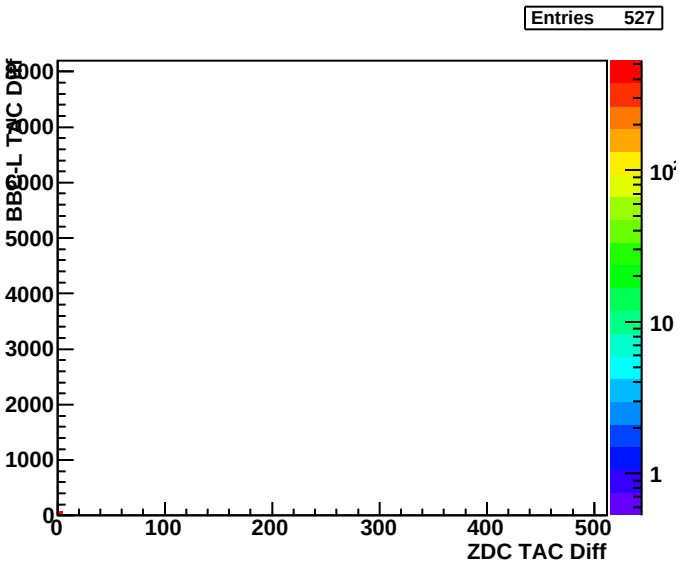

Entries 527
BBC-L-East ADC Sum
BBC-L-West ADC Sum

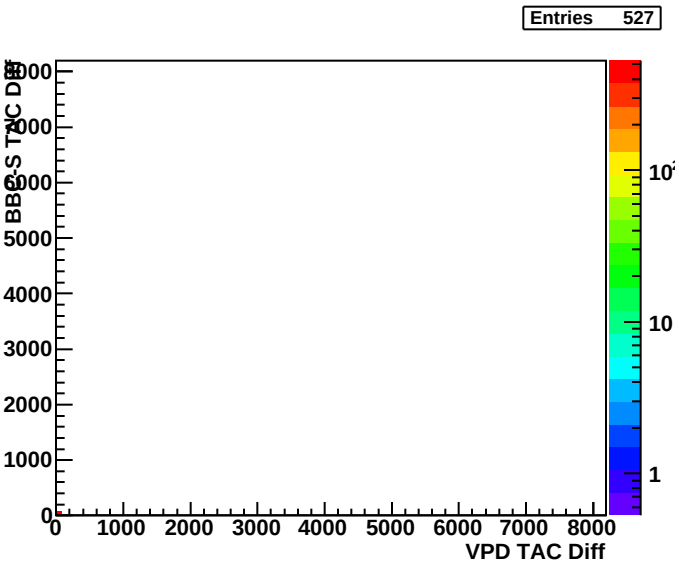

Entries 527
BBC-S-East ADC Sum
BBC-S-West ADC Sum

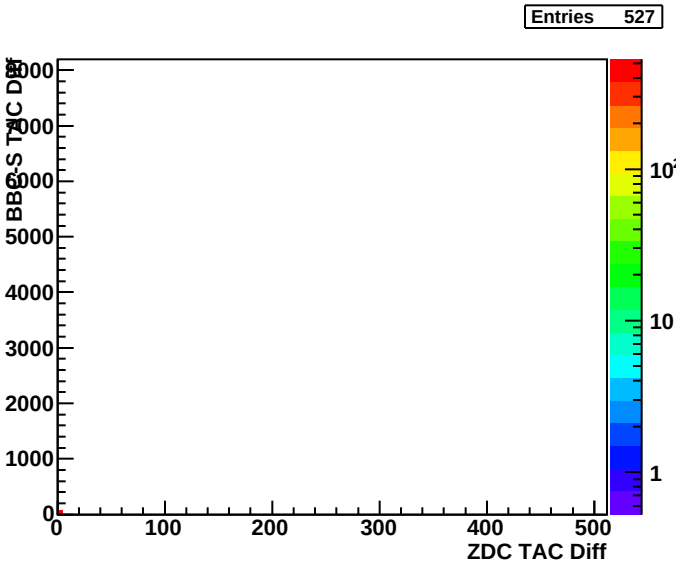

Entries 527
ZDC East ADC Sum Att
ZDC West ADC Sum Att

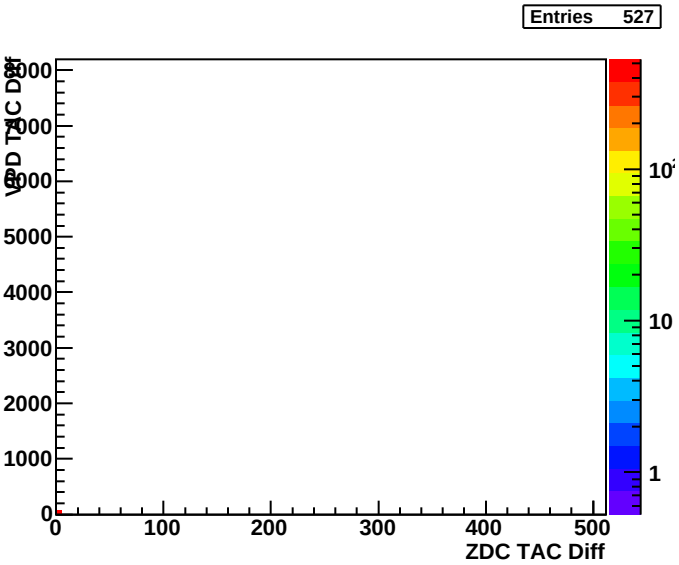

Entries 527
BBC-L TAC Diff
BCC-S TAC Diff

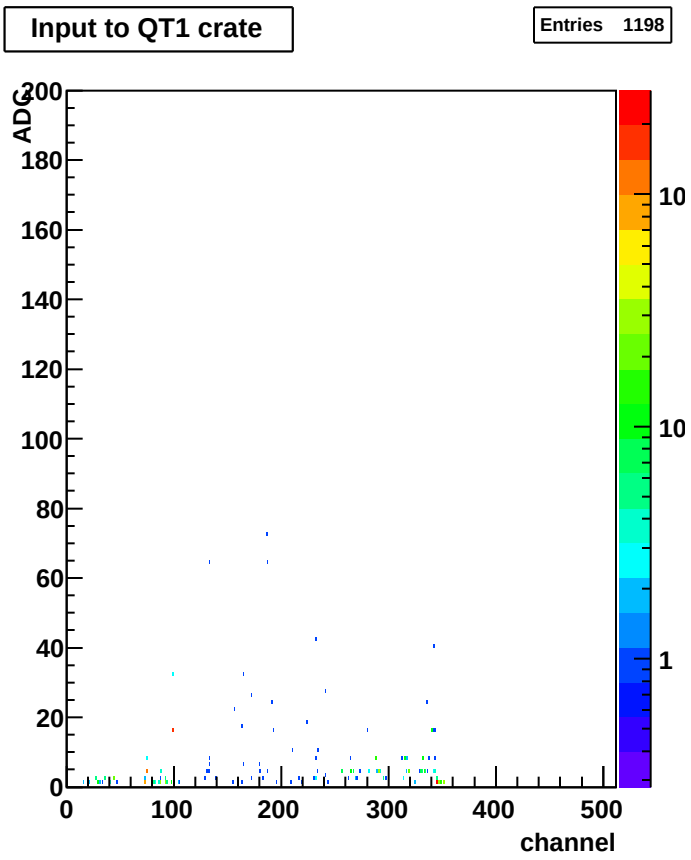

Entries 527
BBC-L TAC Diff
VPD TAC Diff

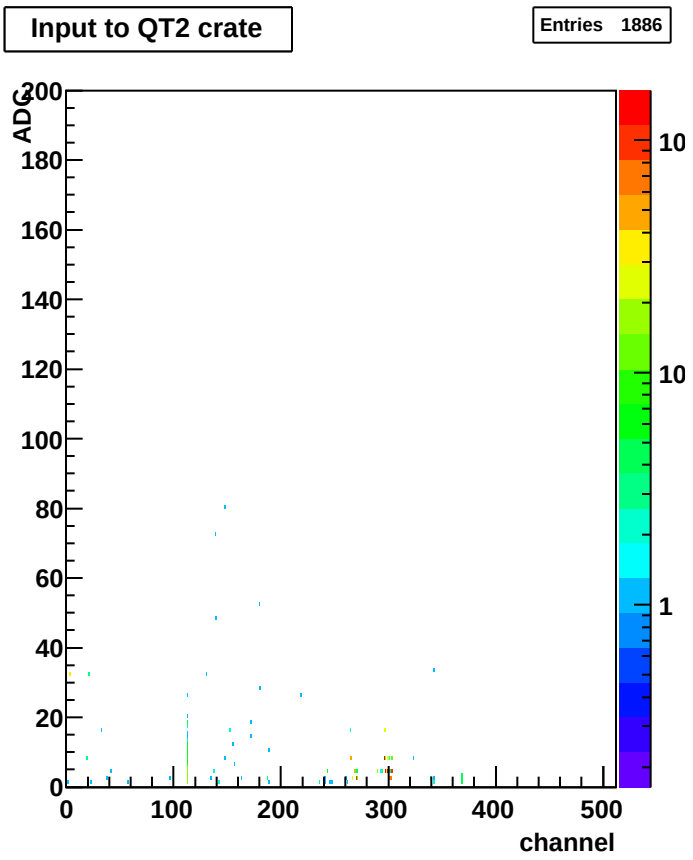

Entries 527
BBC-L TAC Diff
ZDC TAC Diff

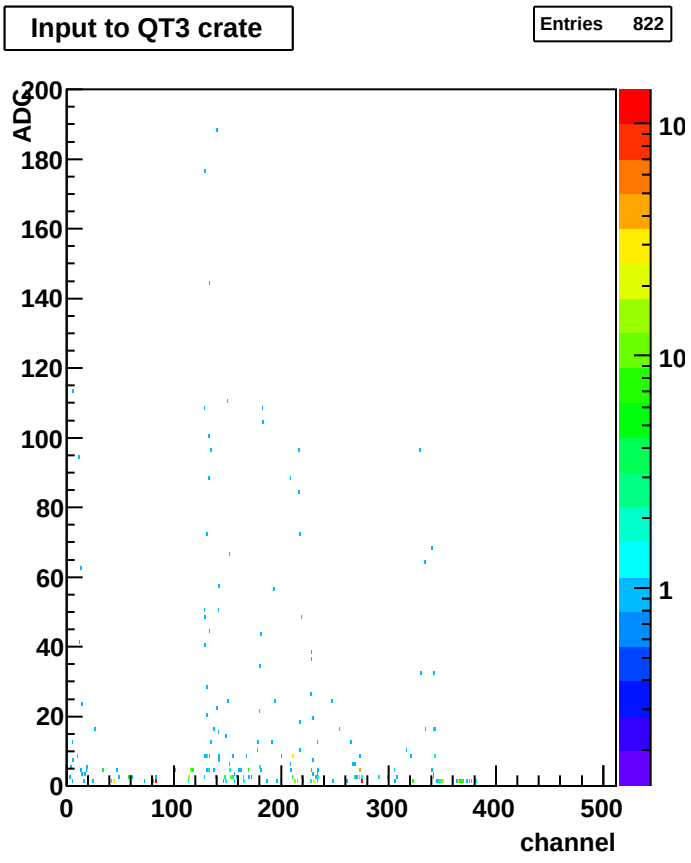

Entries 527
BBC-S TAC Diff
VPD TAC Diff

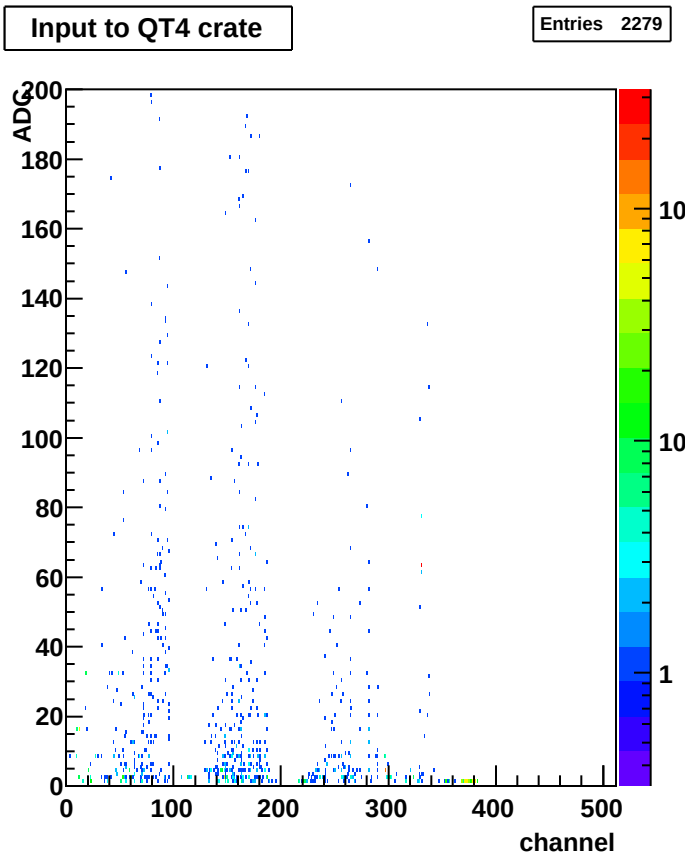

Entries 527
BBC-S TAC Diff
ZDC TAC Diff

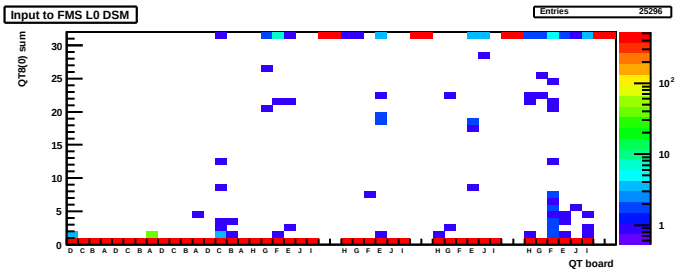

Entries 527
VPD TAC Diff
ZDC TAC Diff

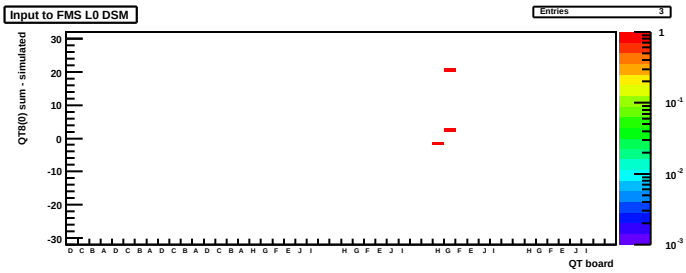

Input to QT1 crate
Entries 1198
ADC
channel

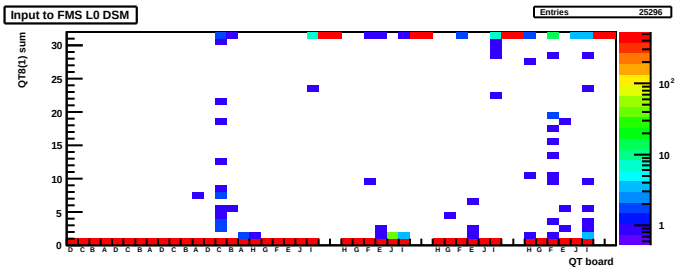

Input to QT2 crate
Entries 1886
ADC
channel

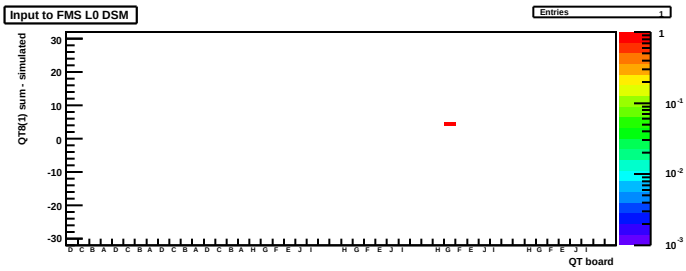

Input to QT3 crate
Entries 822
ADC
channel

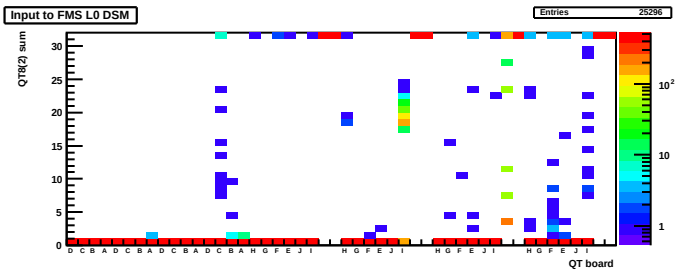

Input to QT4 crate
Entries 2279
ADC
channel

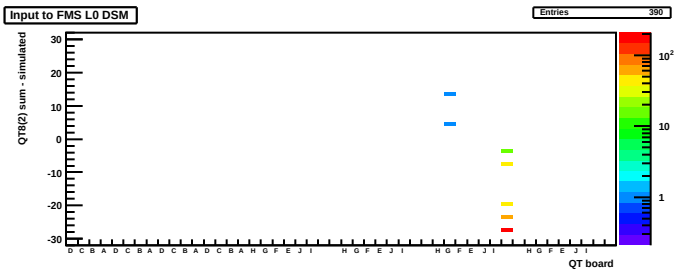

Input to FMS L0 DSM
Entries 25296
QT8(0) sum
QT board

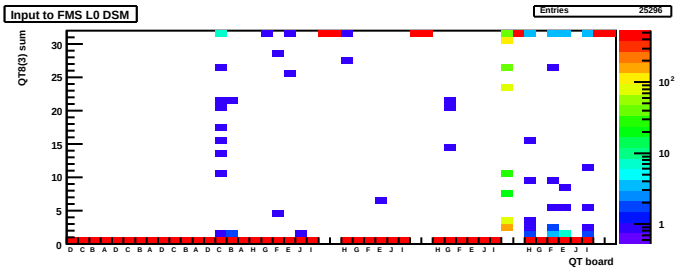

Input to FMS L0 DSM
Entries 3
QT8(0) sum - simulated
QT board

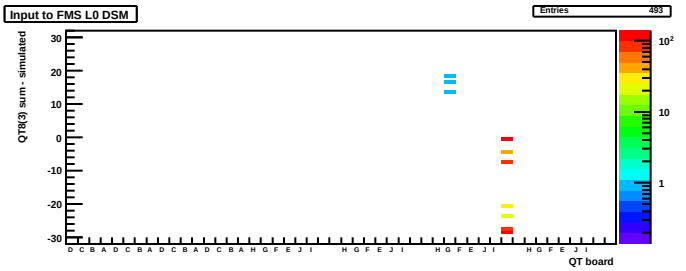

Input to FMS L0 DSM
Entries 25296
QT8(1) sum
QT board

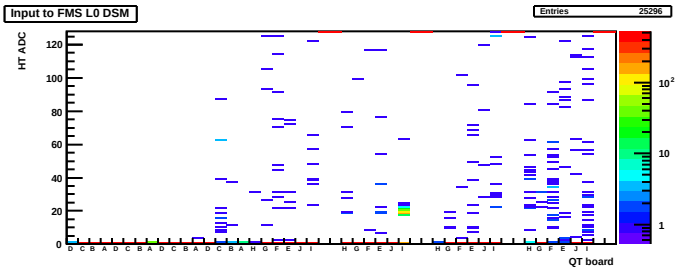

Input to FMS L0 DSM
Entries 1
QT8(1) sum - simulated
QT board

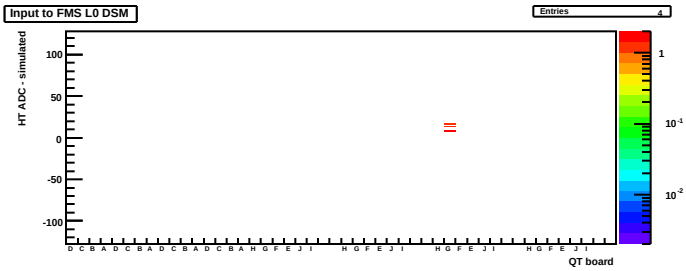

Input to FMS L0 DSM
Entries 25296
QT8(2) sum
QT board

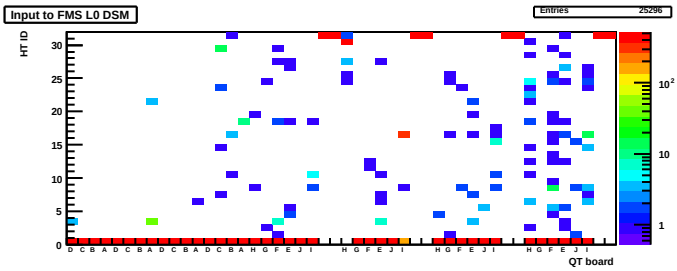

Input to FMS L0 DSM
Entries 390
QT8(2) sum - simulated
QT board

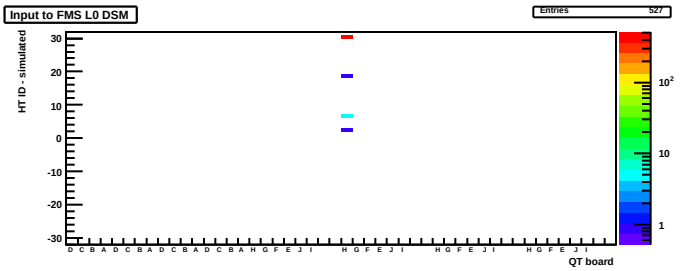

Input to FMS L0 DSM
Entries 25296
QT8(3) sum
QT board

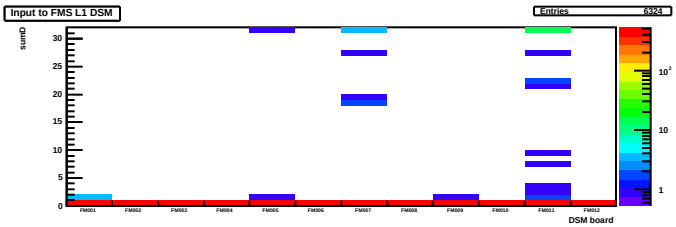

Input to FMS L0 DSM
Entries 493
QT8(3) sum - simulated
QT board

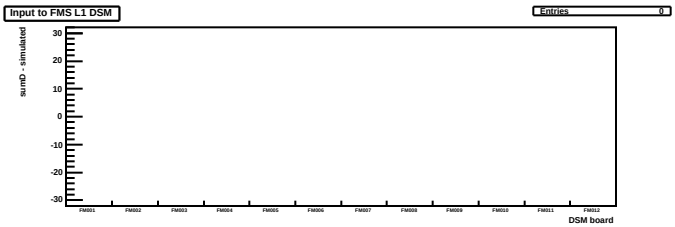

Input to FMS L0 DSM
Entries 25296
HT ADC
QT board

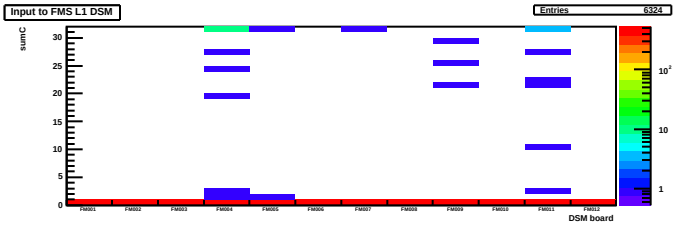

Input to FMS L0 DSM
Entries 4
HT ADC - simulated
QT board

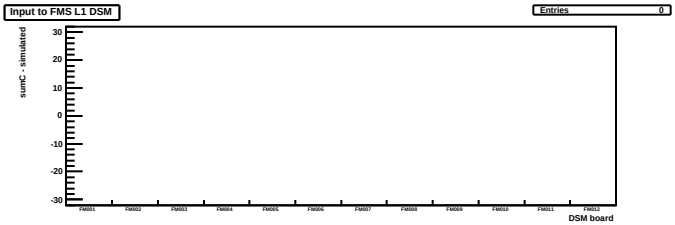

Input to FMS L0 DSM
Entries 25296
HT ID
QT board

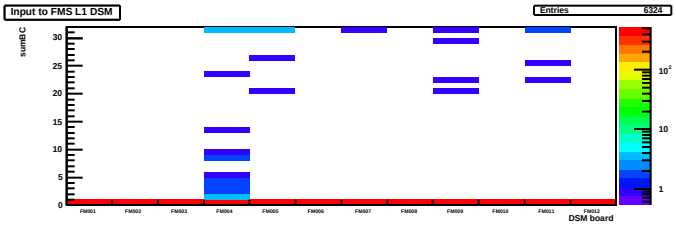

Input to FMS L0 DSM
Entries 527
HT ID - simulated
QT board

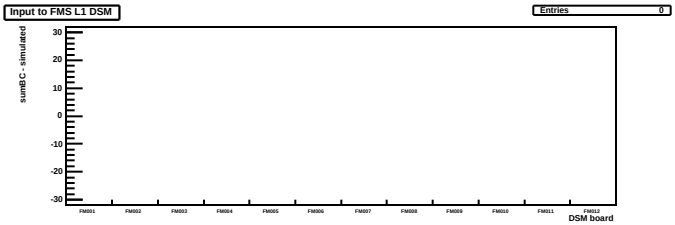

Input to FMS L1 DSM
Entries 6324
sumD
DSM board

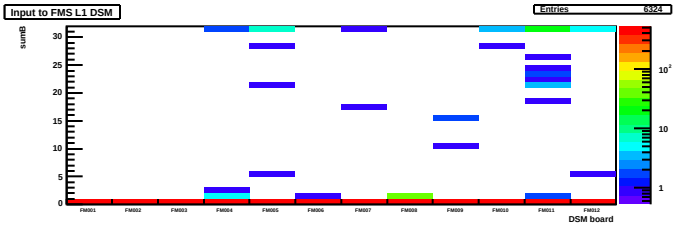

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

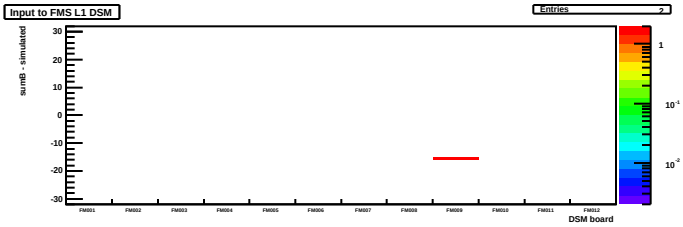

Input to FMS L1 DSM
Entries 6324
sumC
DSM board

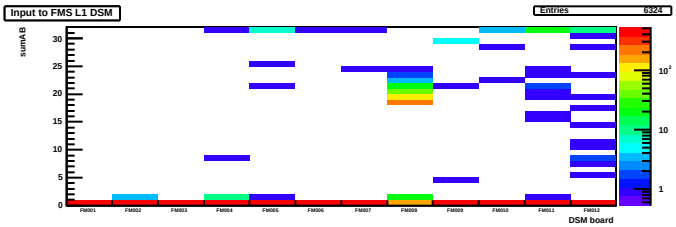

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

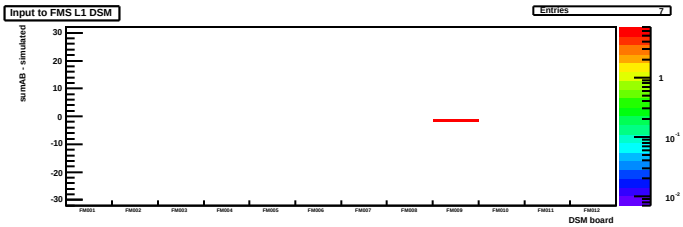

Input to FMS L1 DSM
Entries 6324
sumBC
DSM board

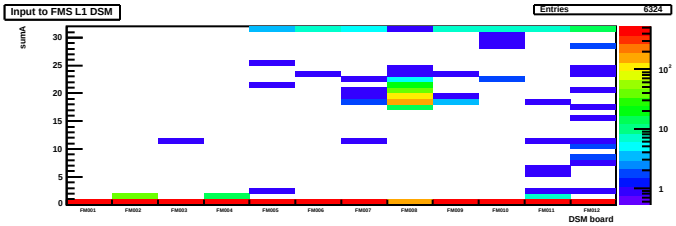

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

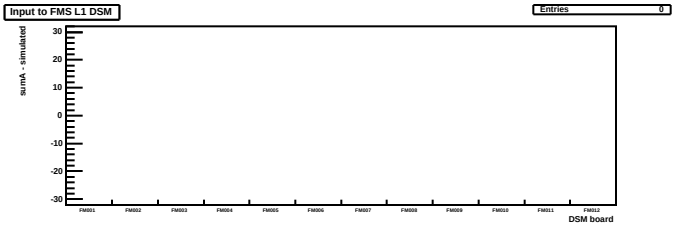

Input to FMS L1 DSM
Entries 6324
sumB
DSM board

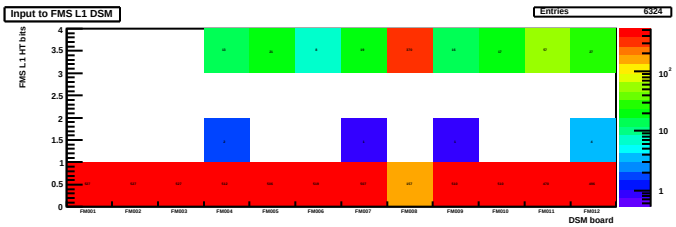

Input to FMS L1 DSM
Entries 2
sumB - simulated
DSM board

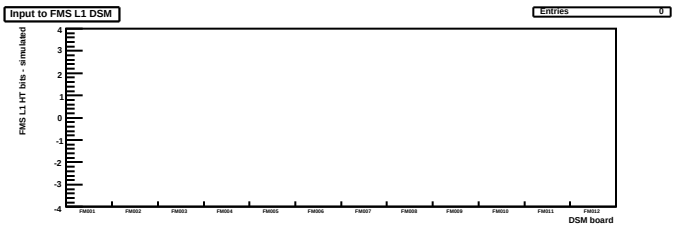

Input to FMS L1 DSM
Entries 6324
sumAB
DSM board

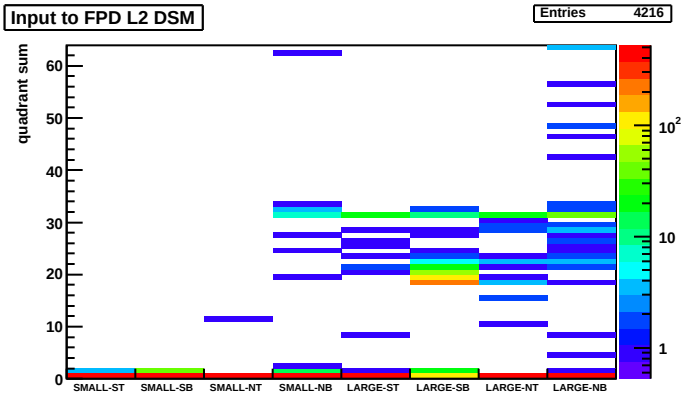

Input to FMS L1 DSM
Entries 7
sumAB - simulated
DSM board

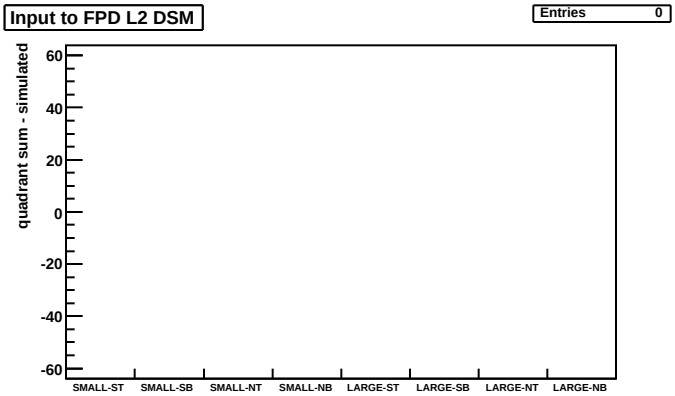

Input to FMS L1 DSM
Entries 6324
sumA
DSM board

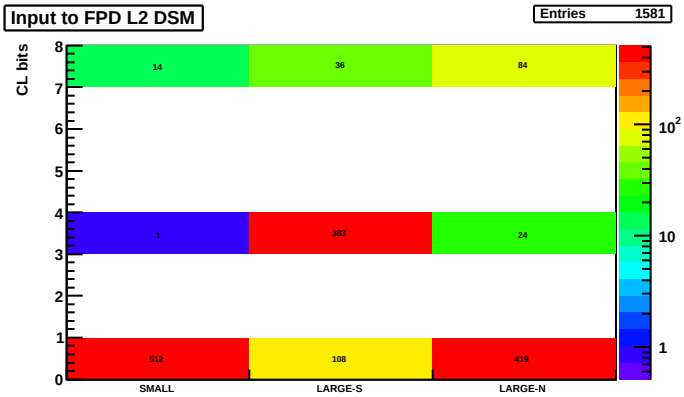

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

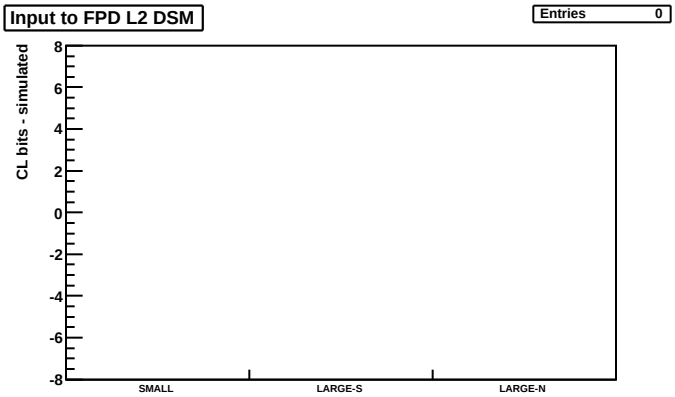

Input to FMS L1 DSM
Entries 6324
FMS L1 HT bits
DSM board

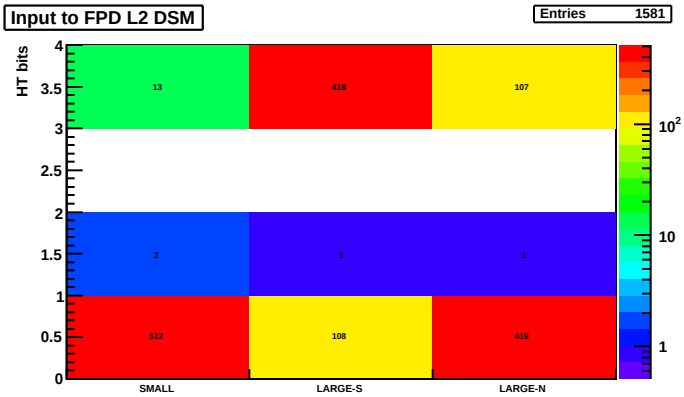

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

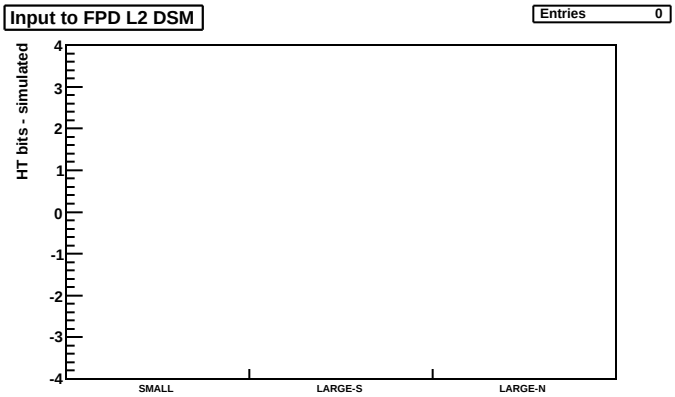

Input to FPD L2 DSM
Entries 4216
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

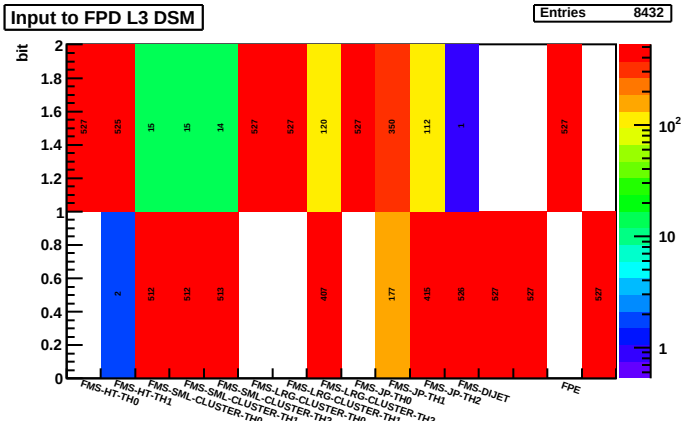

Input to FPD L2 DSM
Entries 0
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

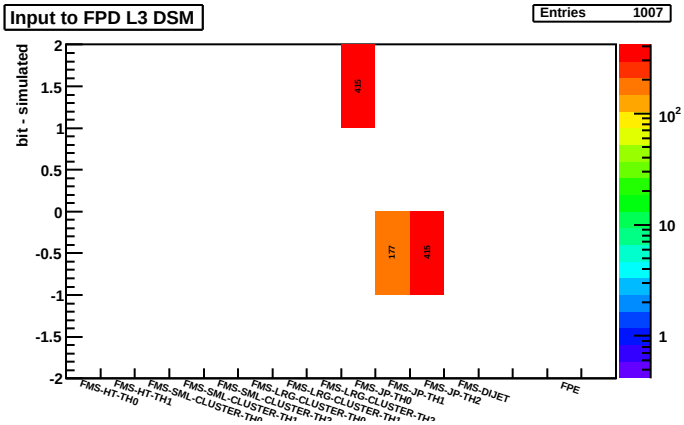

Input to FPD L2 DSM
Entries 1581
CL bits
14
36
84
1
383
24
512
108
419
SMALL
LARGE-S
LARGE-N

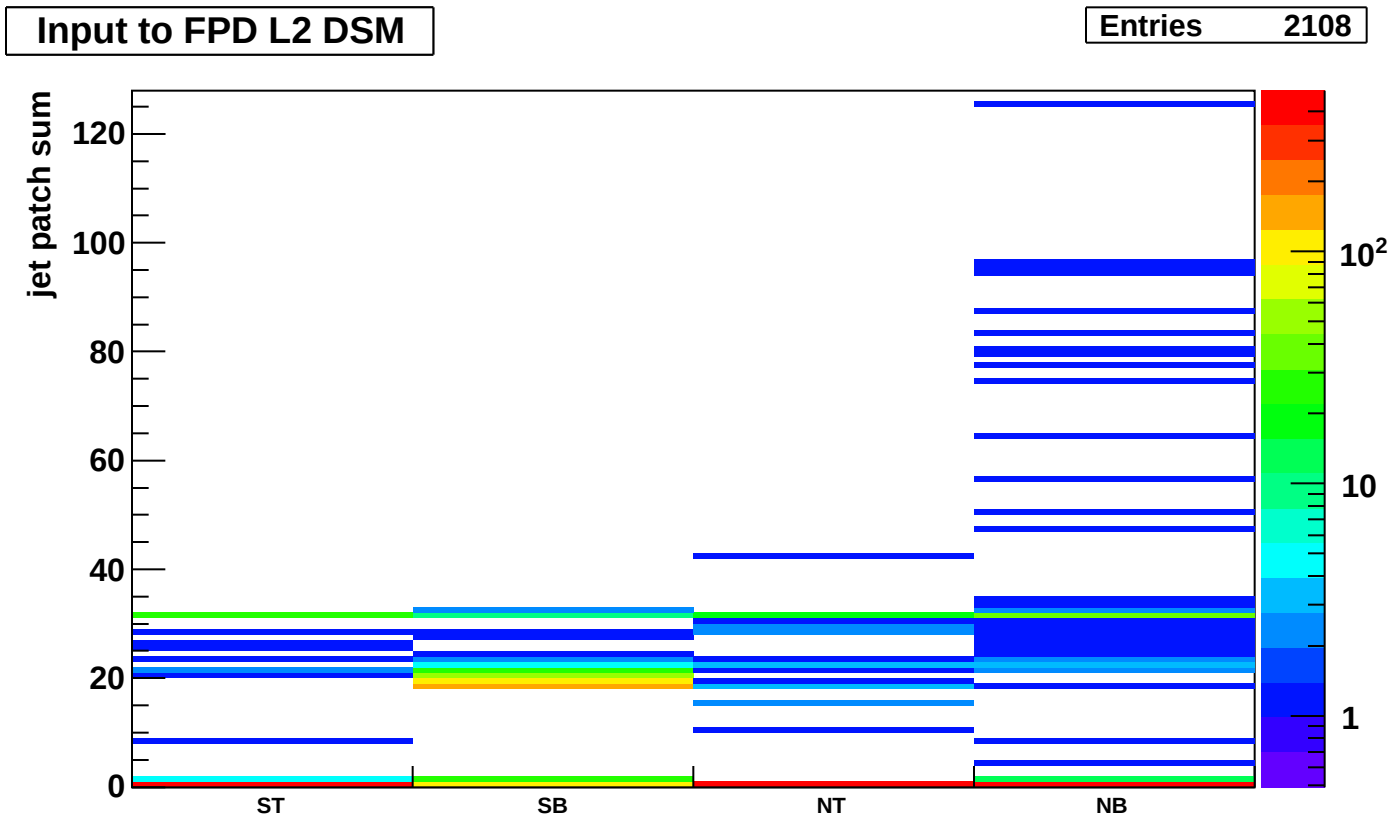

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

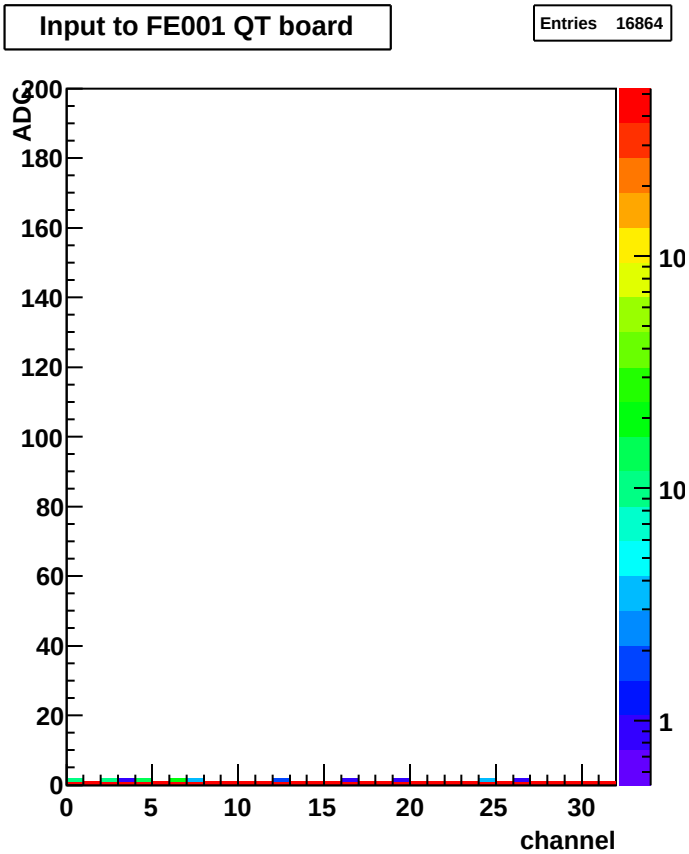

Input to FPD L2 DSM
Entries 1581
HT bits
13
418
107
2
1
1
512
108
419
SMALL
LARGE-S
LARGE-N

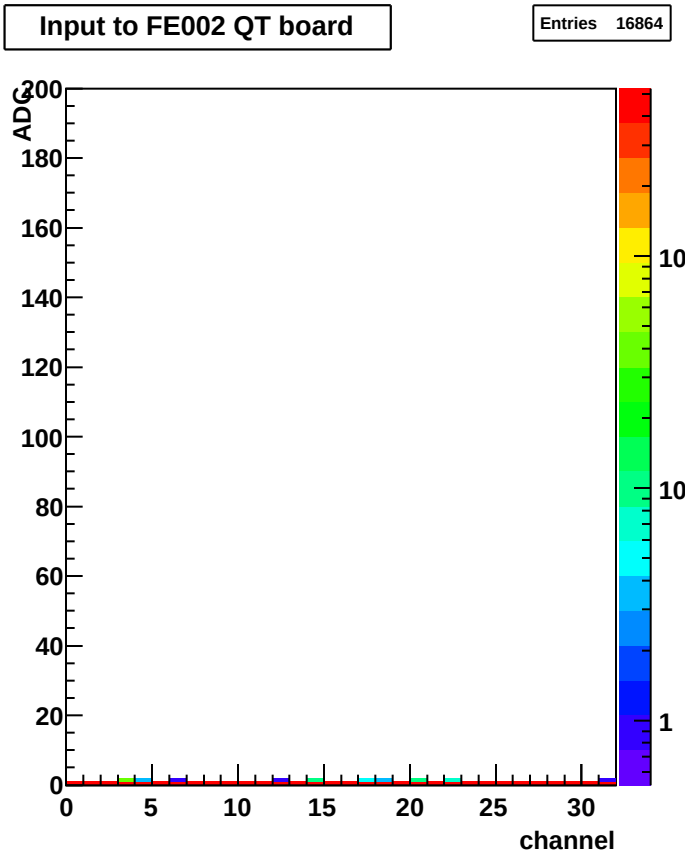

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

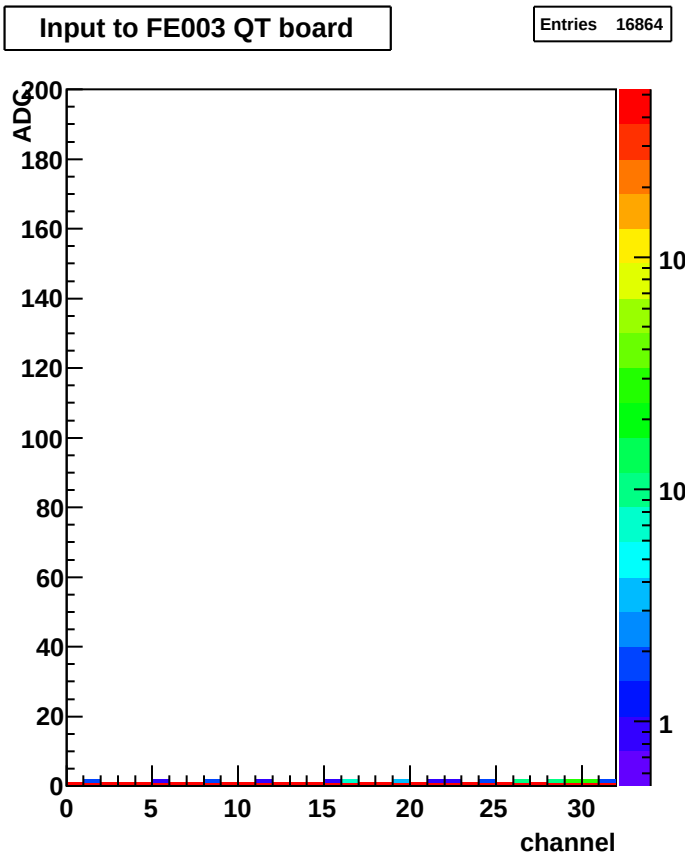

Input to FPD L3 DSM
Entries 8432
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

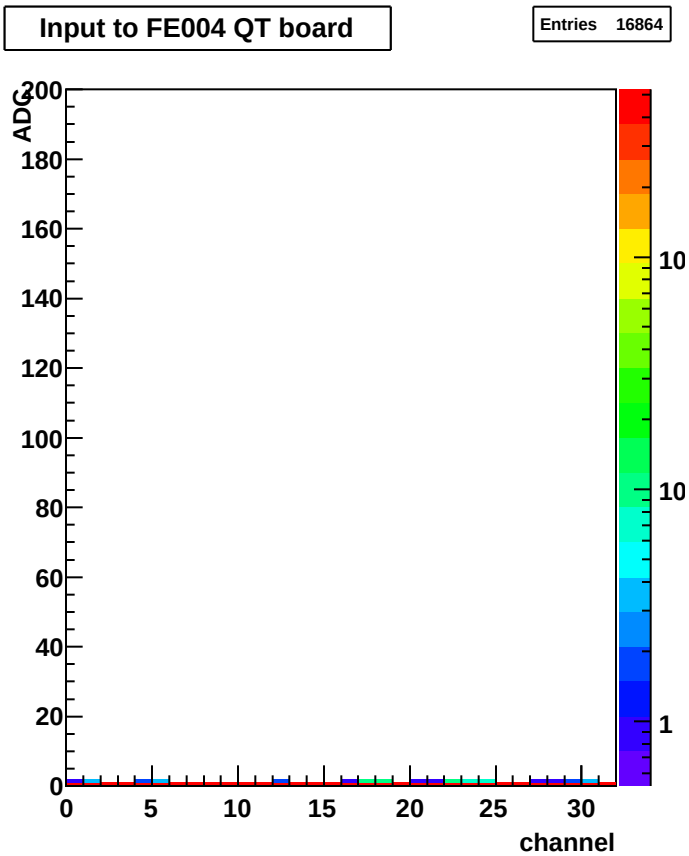

Input to FPD L3 DSM
Entries 1007
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

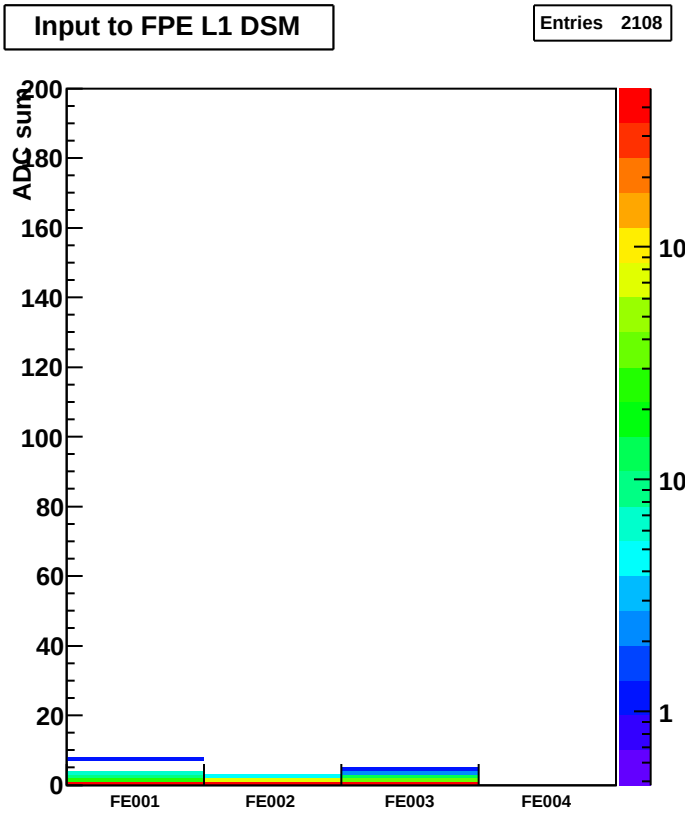

Input to FPD L2 DSM
Entries 2108
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^2
10
1

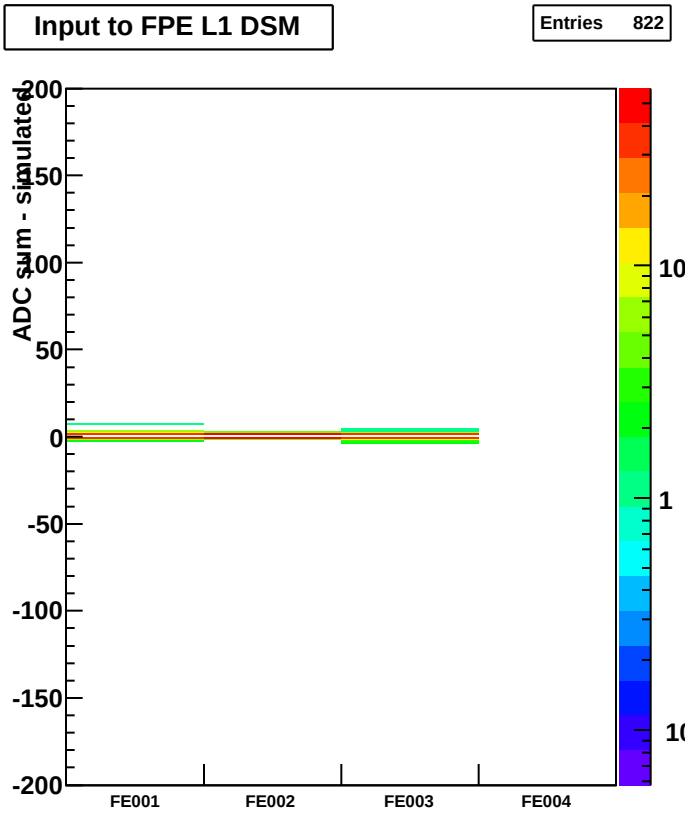

Input to FE001 QT board
Entries 16864
ADC
channel

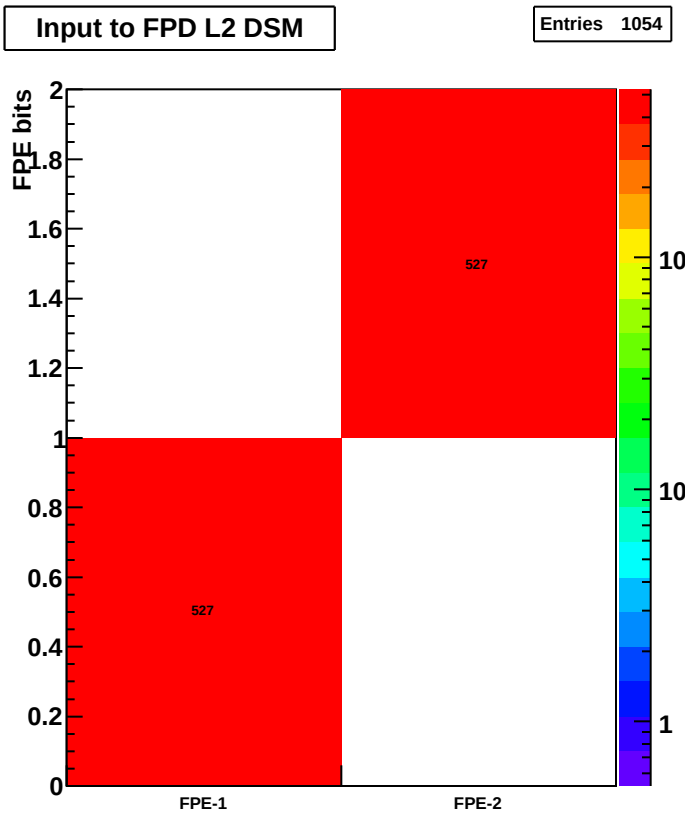

Input to FE002 QT board
Entries 16864
ADC
channel

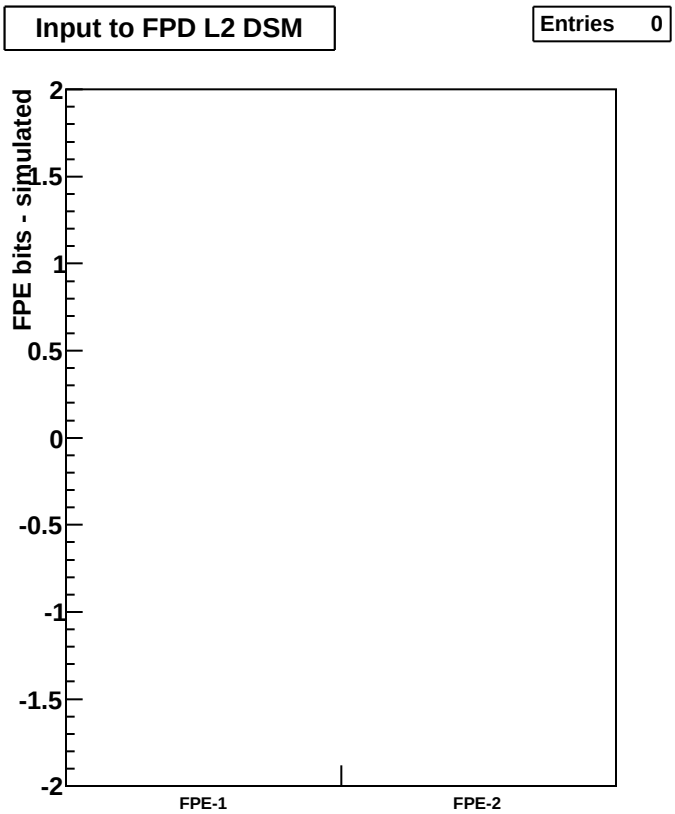

Input to FE003 QT board
Entries 16864
ADC
channel


Input to FE004 QT board
Entries 16864
ADC
channel


Input to FPE L1 DSM
Entries 2108
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 822
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 1054
FPE bits
527
527
FPE-1
FPE-2


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